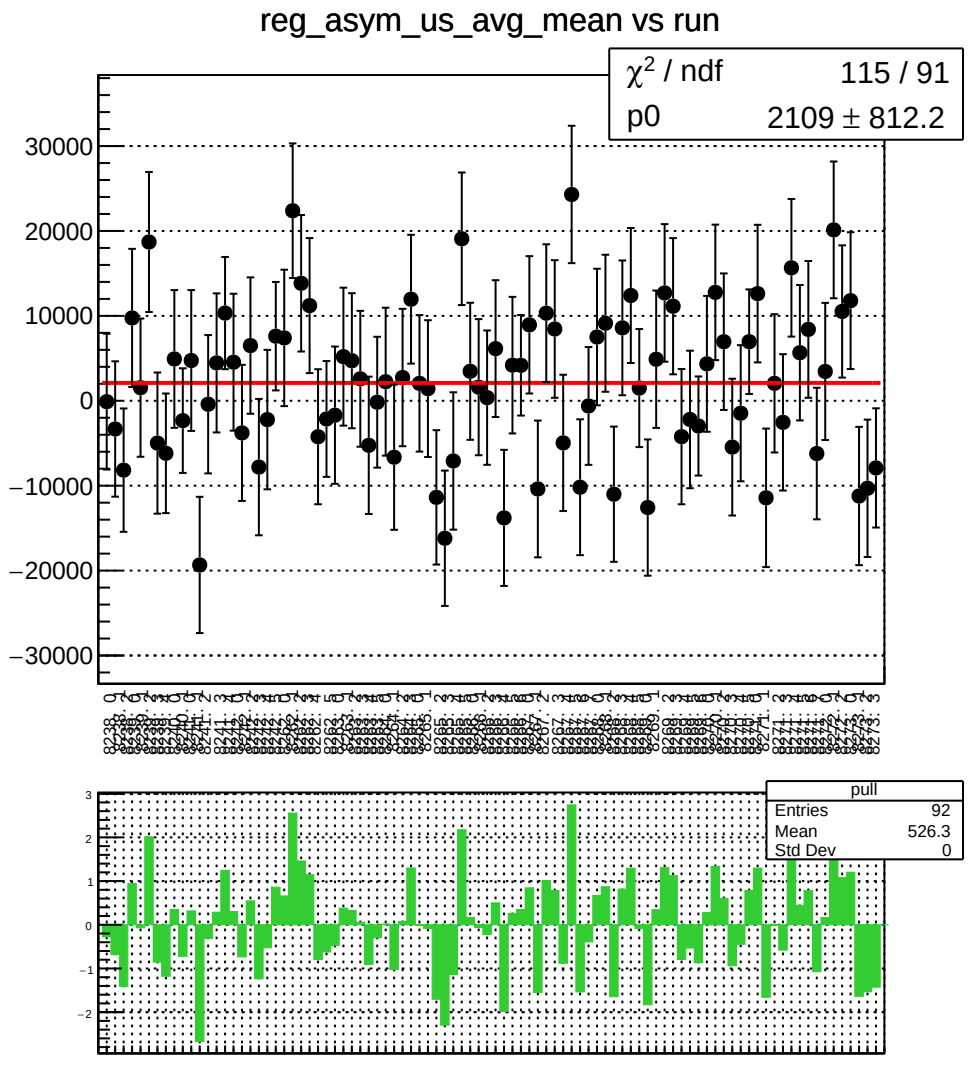
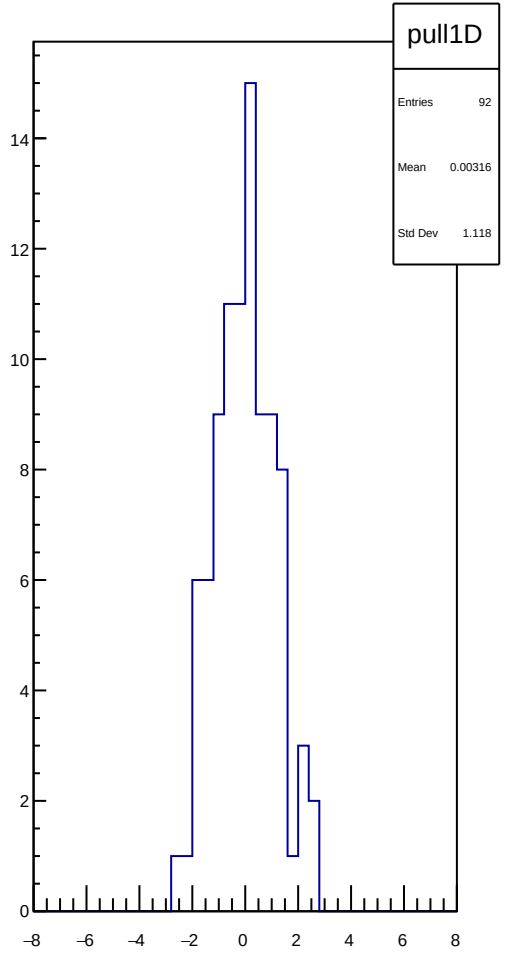
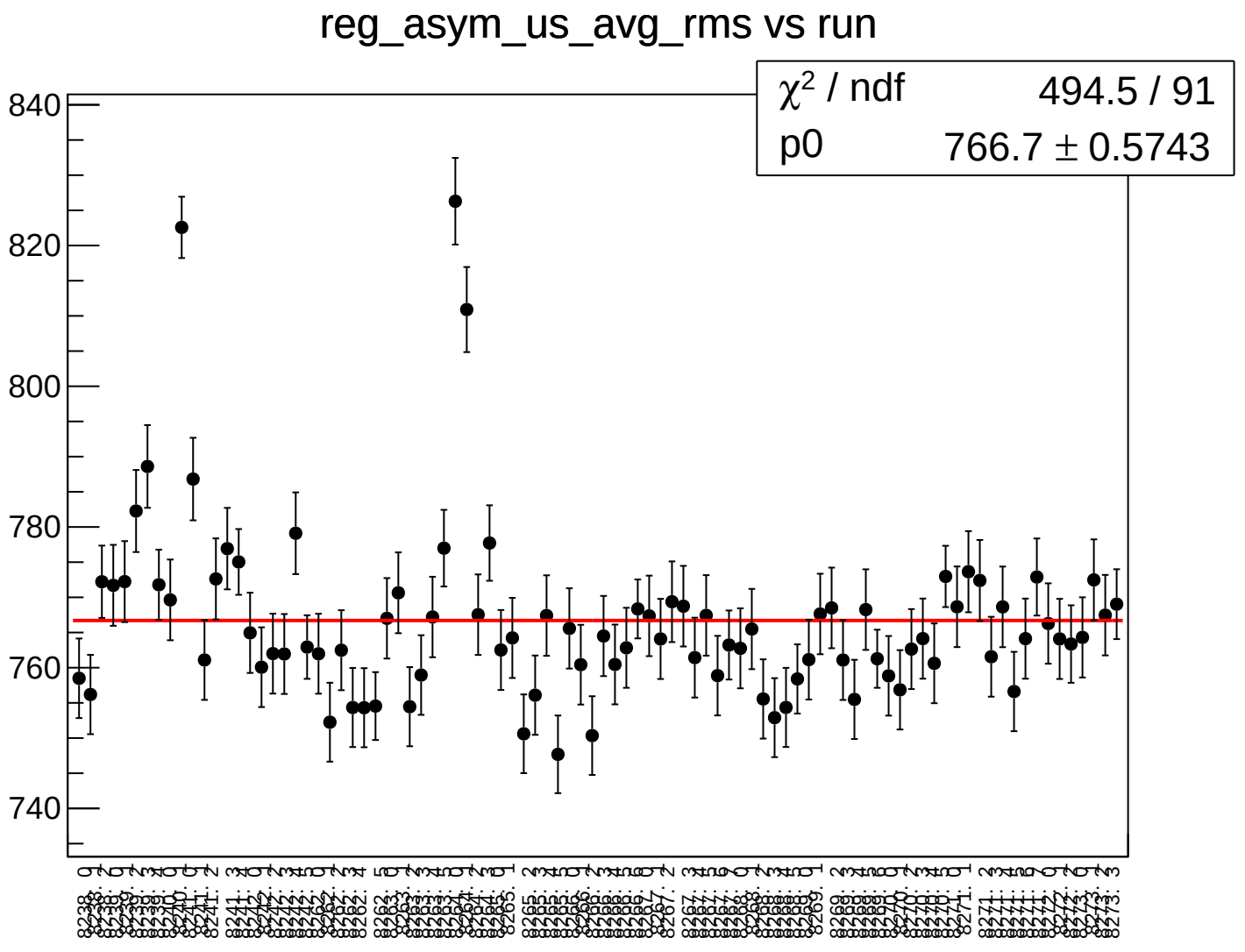
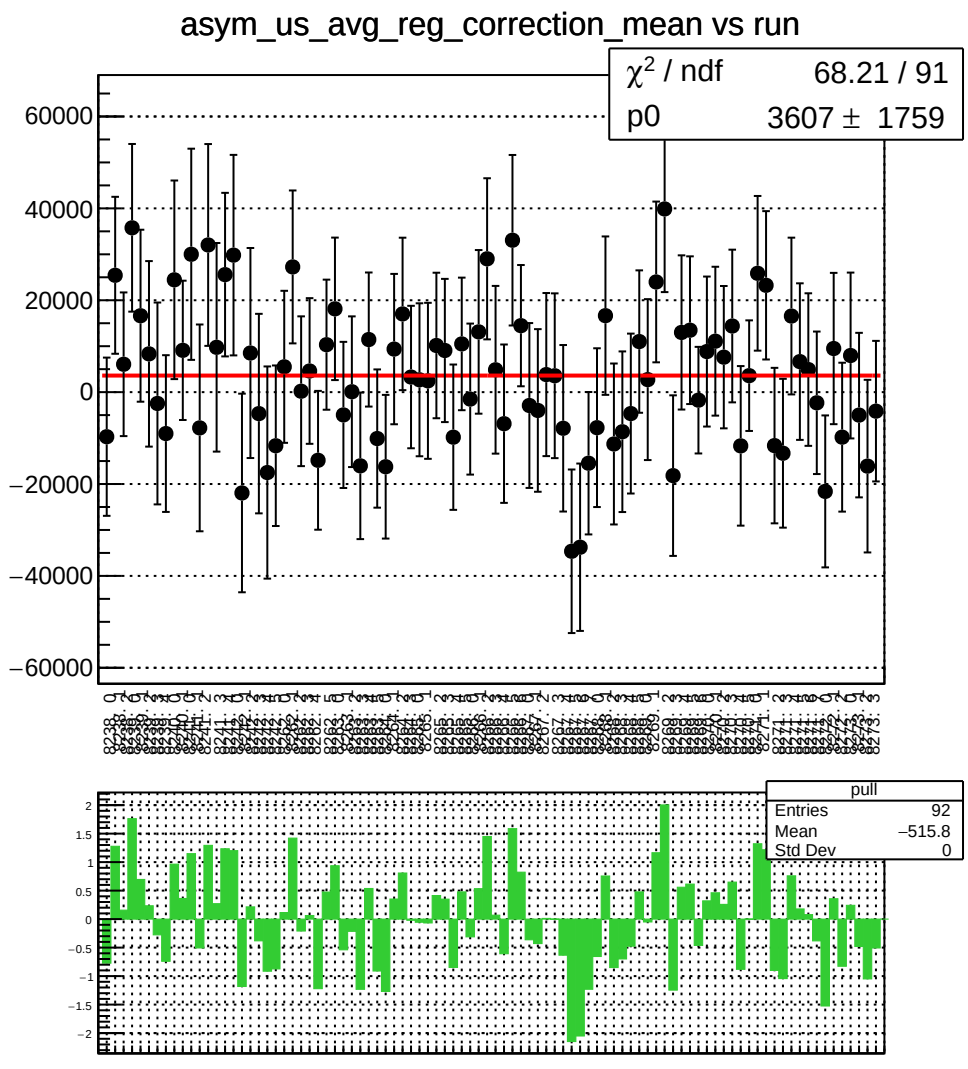
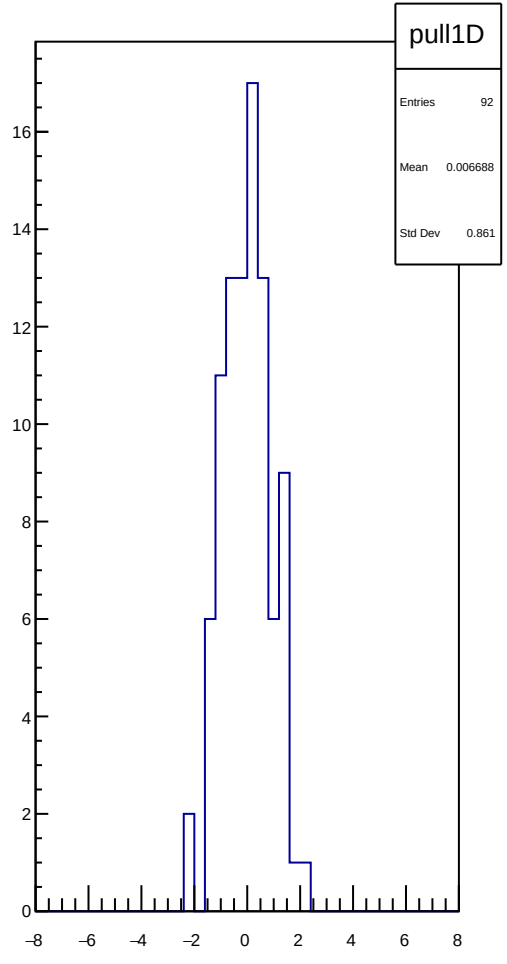
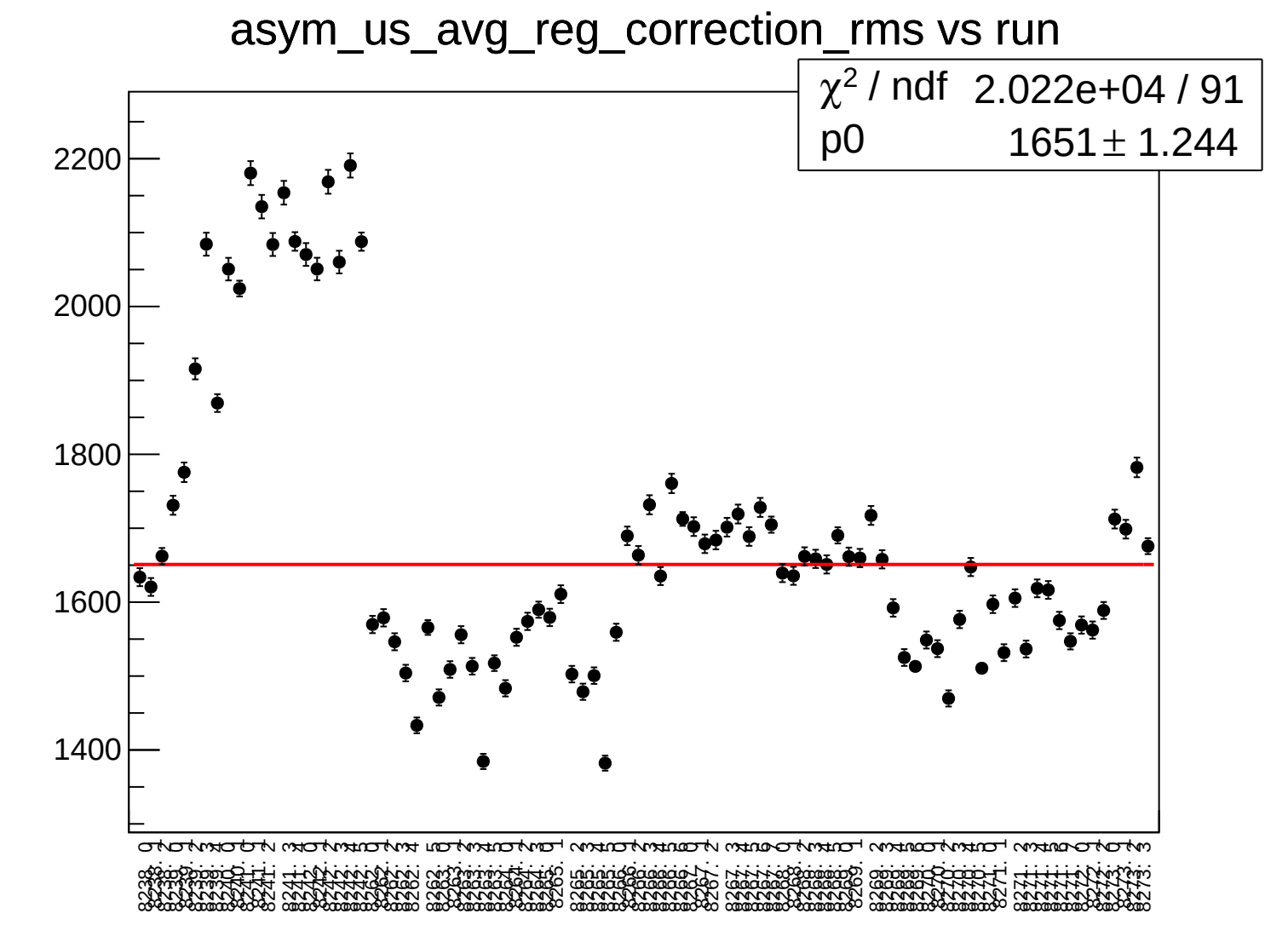

reg_asym_us_avg_mean vs run
χ² / ndf 115 / 91
p0 2109 ± 812.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 526.3
Std Dev 0
3
2
1
0
−1
−2

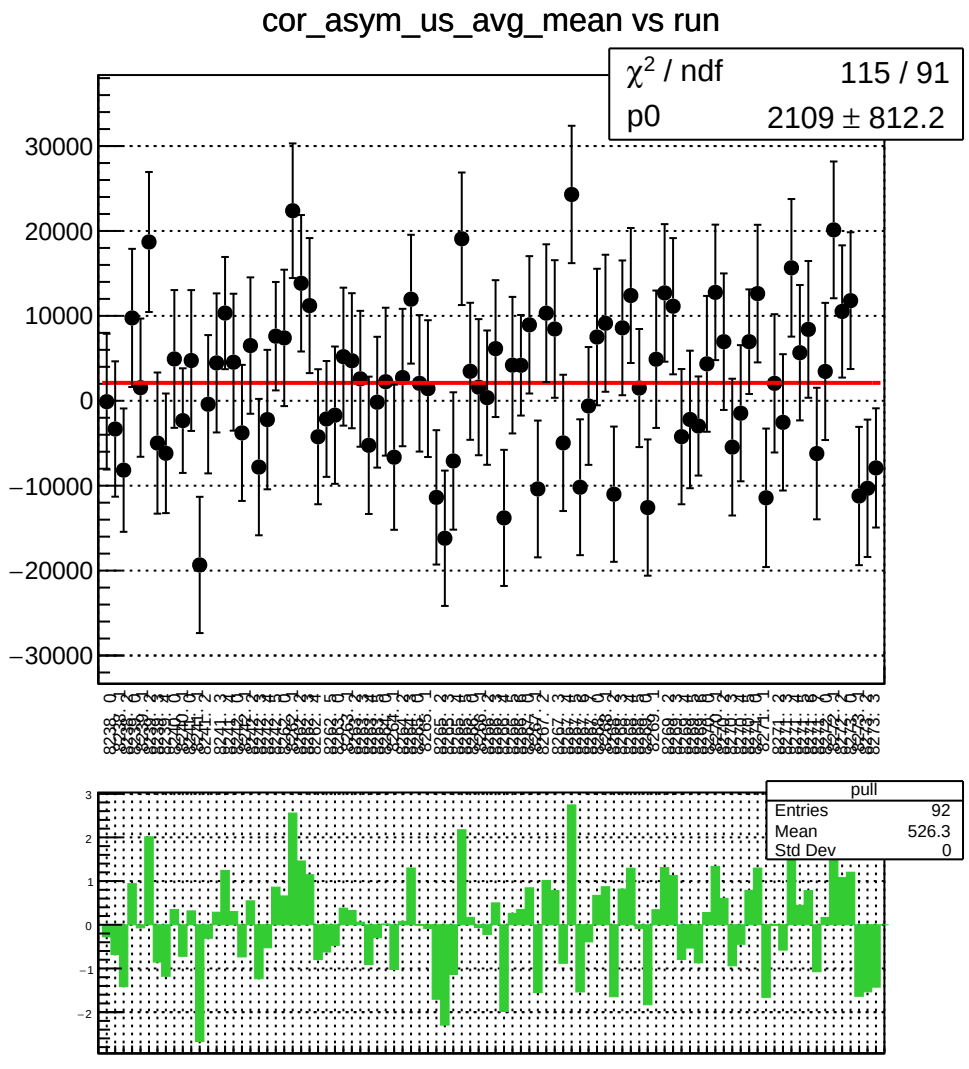

pull1D
Entries 92
Mean 0.00316
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

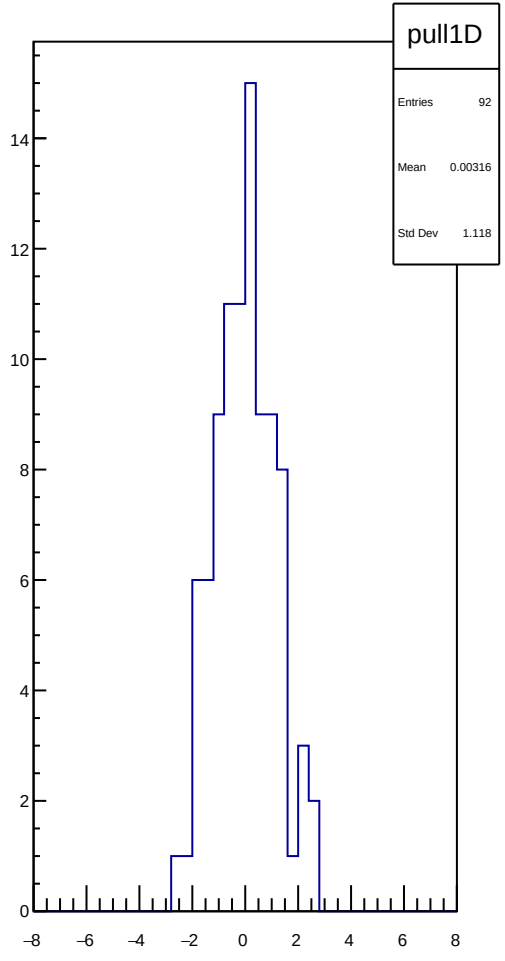

reg_asym_us_avg_rms vs run
χ² / ndf 494.5 / 91
p0 766.7 ± 0.5743
840
820
800
780
760
740

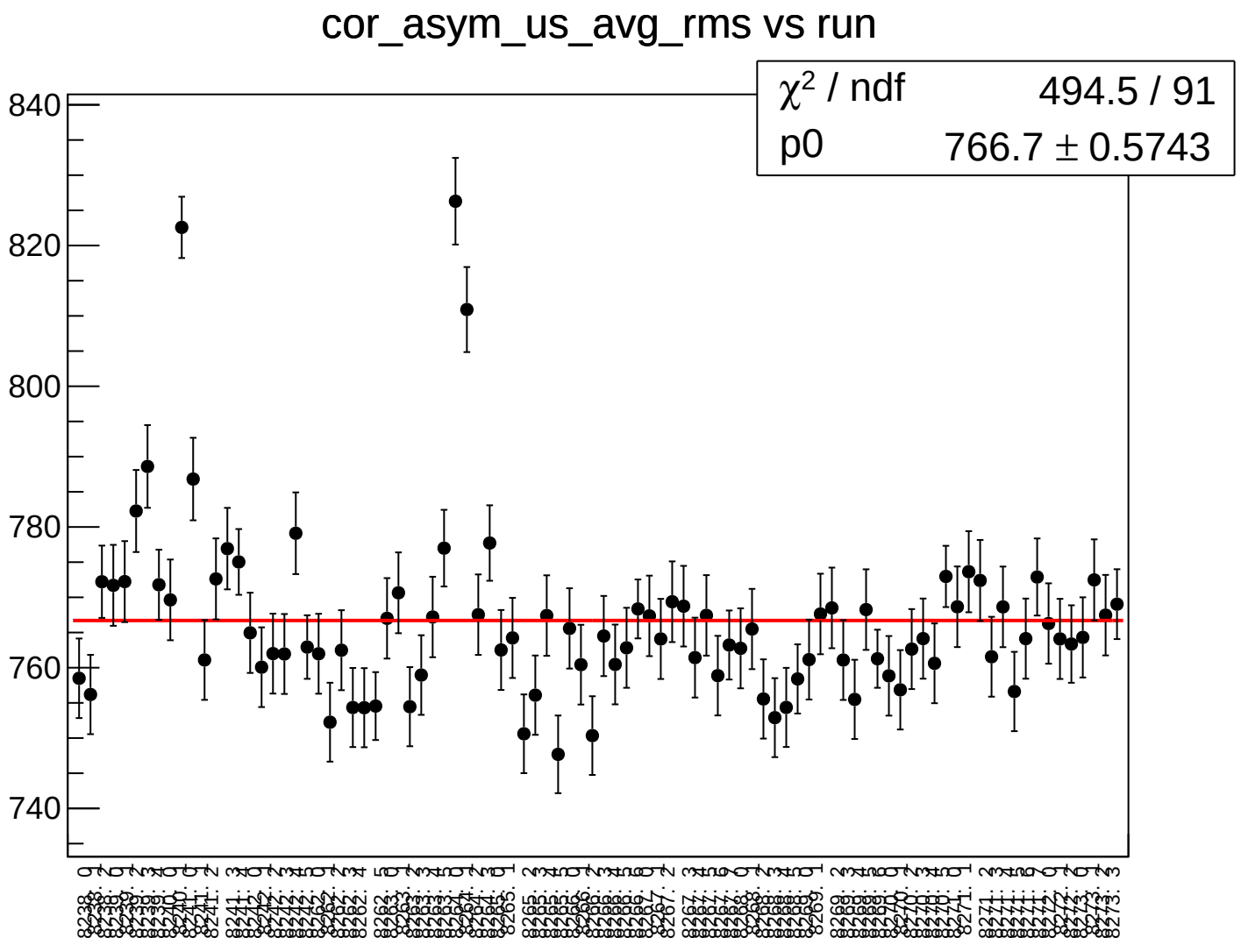

asym_us_avg_reg_correction_mean vs run
χ² / ndf 68.21 / 91
p0 3607 ± 1759
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −515.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

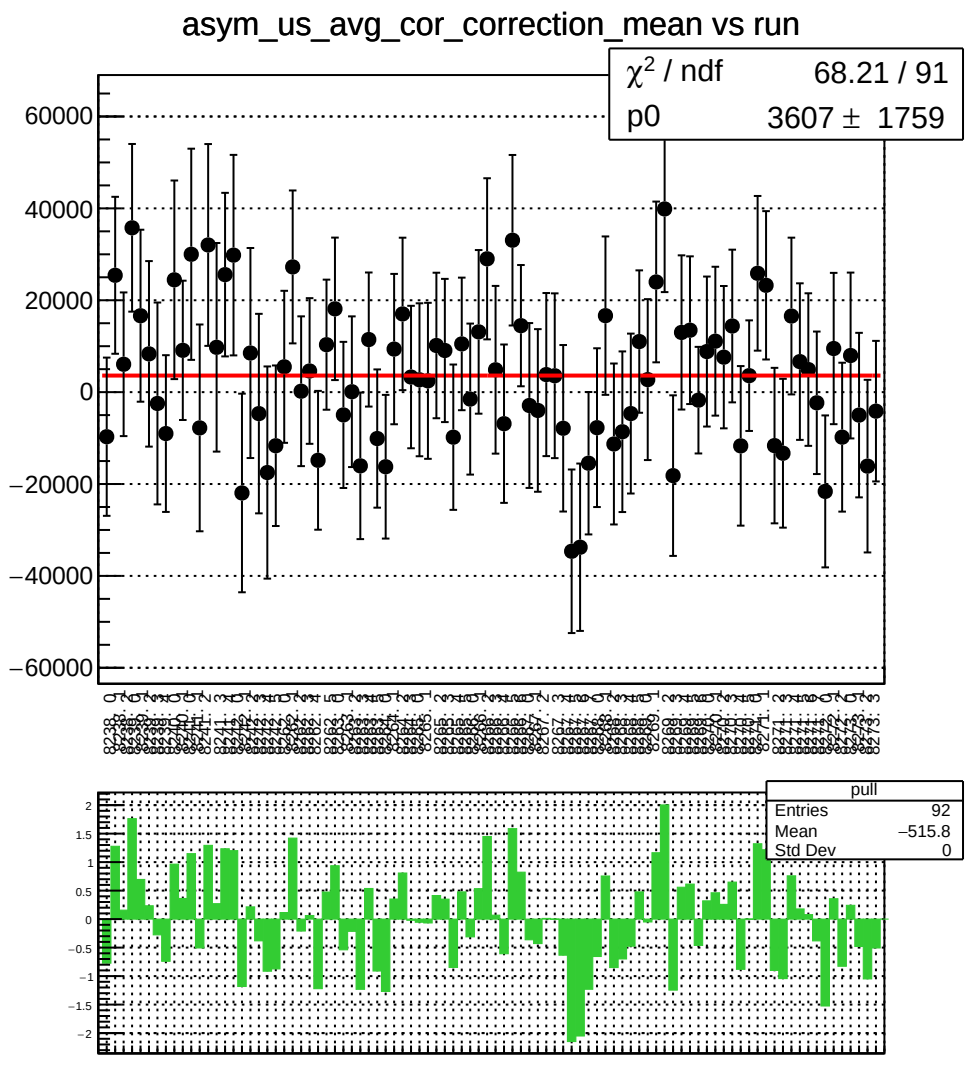

pull1D
Entries 92
Mean 0.006688
Std Dev 0.861
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

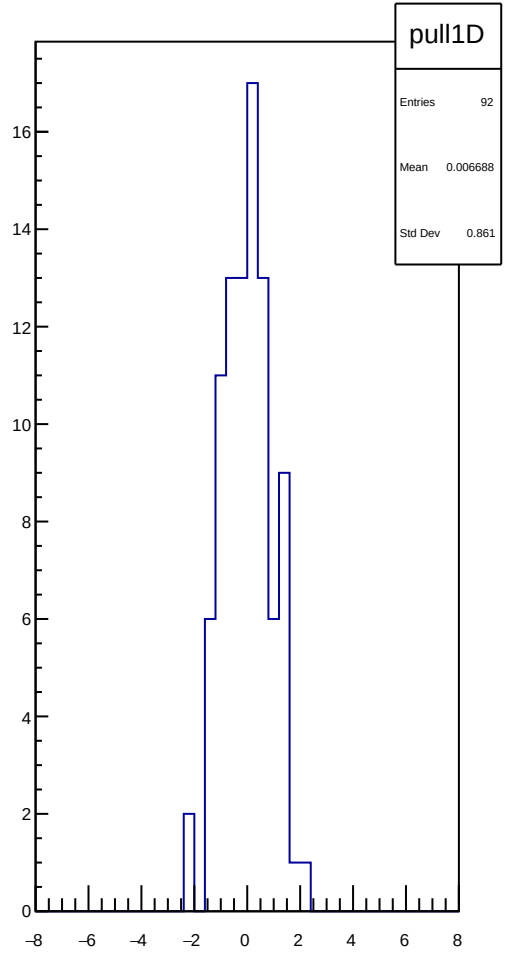

asym_us_avg_reg_correction_rms vs run
χ² / ndf 2.022e+04 / 91
p0 1651 ± 1.244
2200
2000
1800
1600
1400

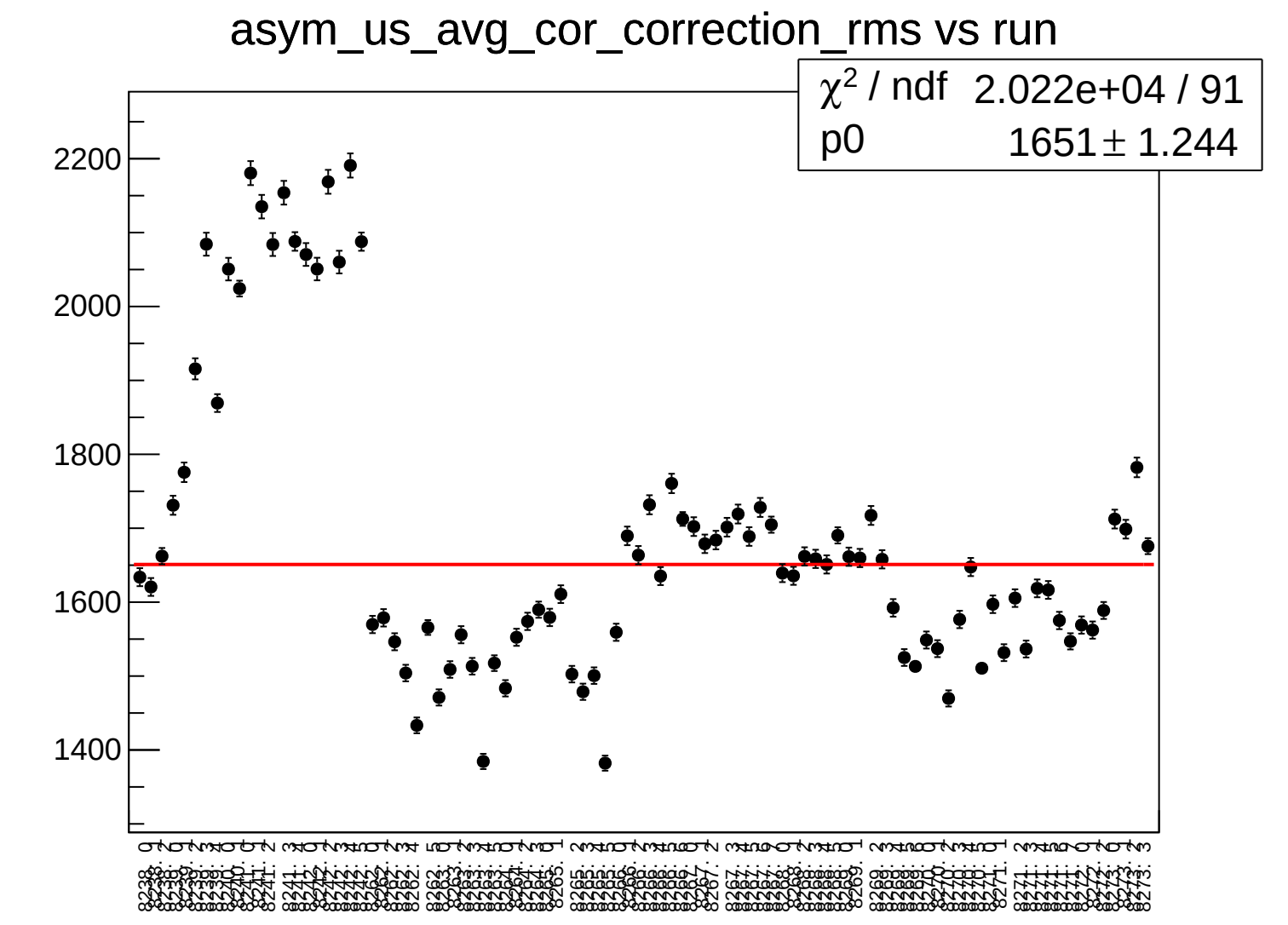

cor_asym_us_avg_mean vs run
χ² / ndf 115 / 91
p0 2109 ± 812.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 526.3
Std Dev 0
3
2
1
0
−1
−2

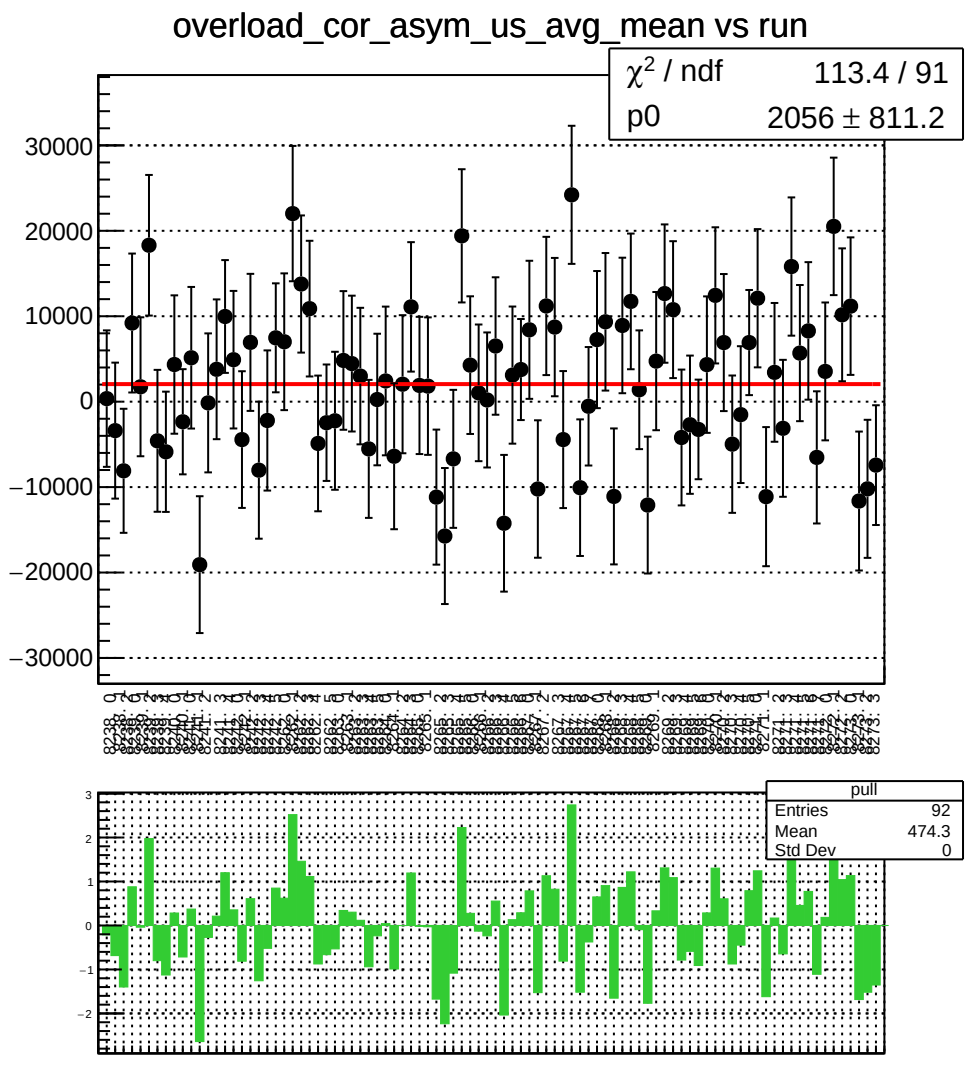

pull1D
Entries 92
Mean 0.00316
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

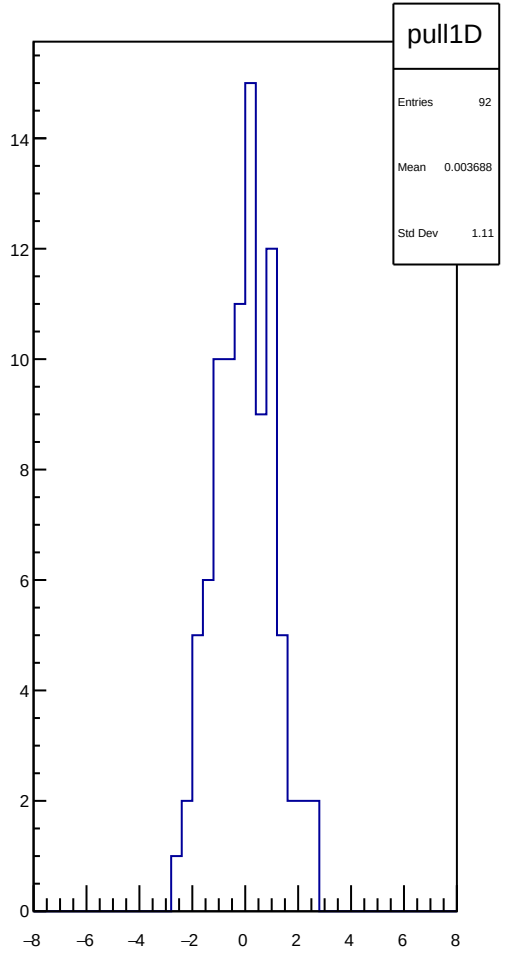

cor_asym_us_avg_rms vs run
χ² / ndf 494.5 / 91
p0 766.7 ± 0.5743
840
820
800
780
760
740

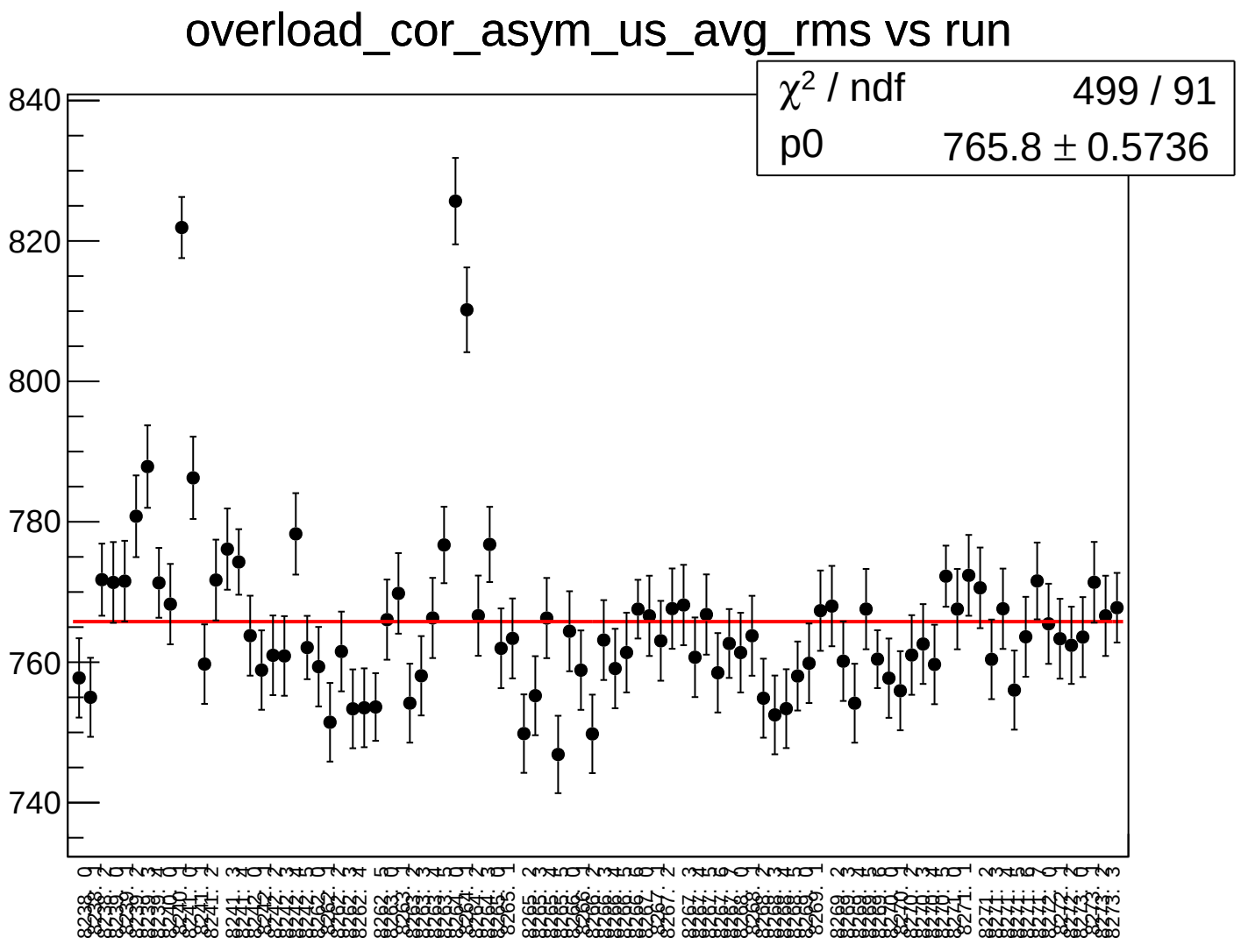

asym_us_avg_cor_correction_mean vs run
χ² / ndf 68.21 / 91
p0 3607 ± 1759
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −515.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

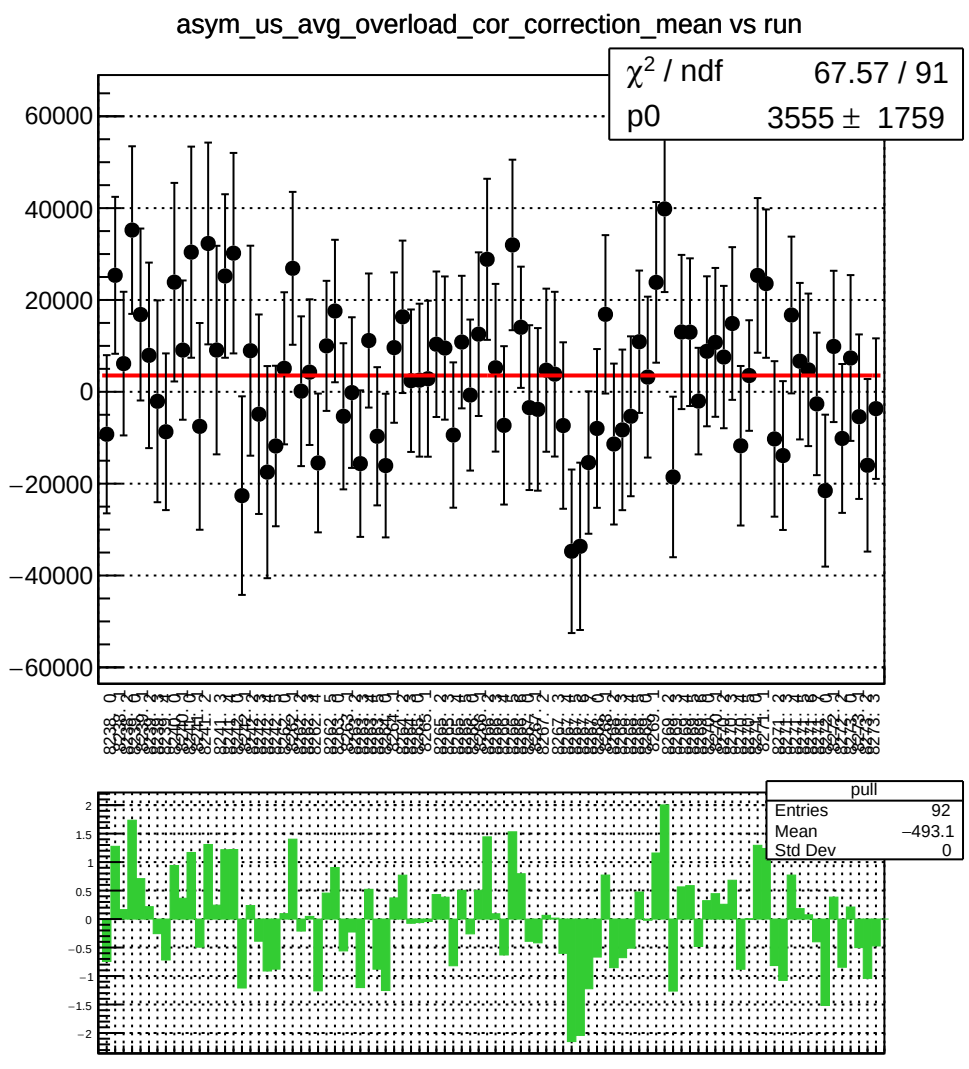

pull1D
Entries 92
Mean 0.006688
Std Dev 0.861
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

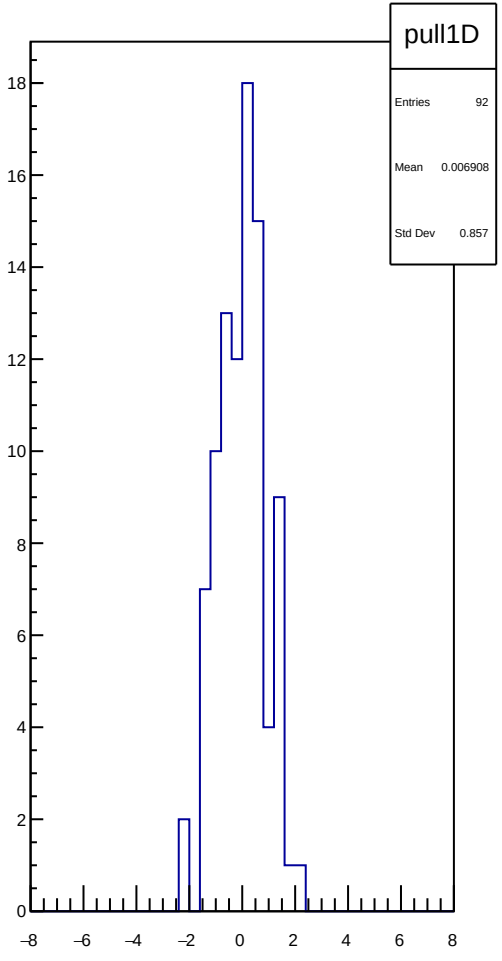

asym_us_avg_cor_correction_rms vs run
χ² / ndf 2.022e+04 / 91
p0 1651 ± 1.244
2200
2000
1800
1600
1400

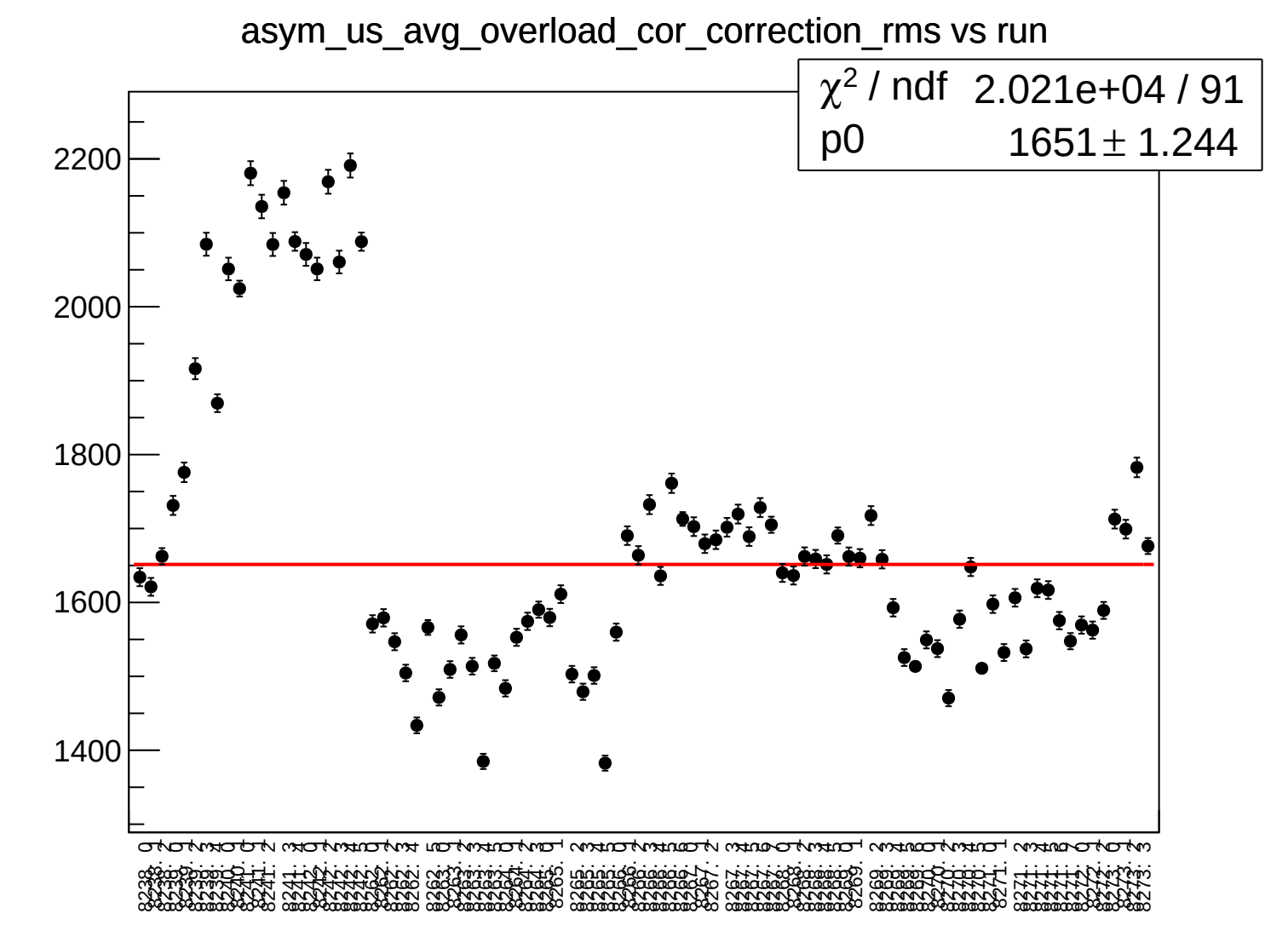

overload_cor_asym_us_avg_mean vs run
χ² / ndf 113.4 / 91
p0 2056 ± 811.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 474.3
Std Dev 0
3
2
1
0
−1
−2

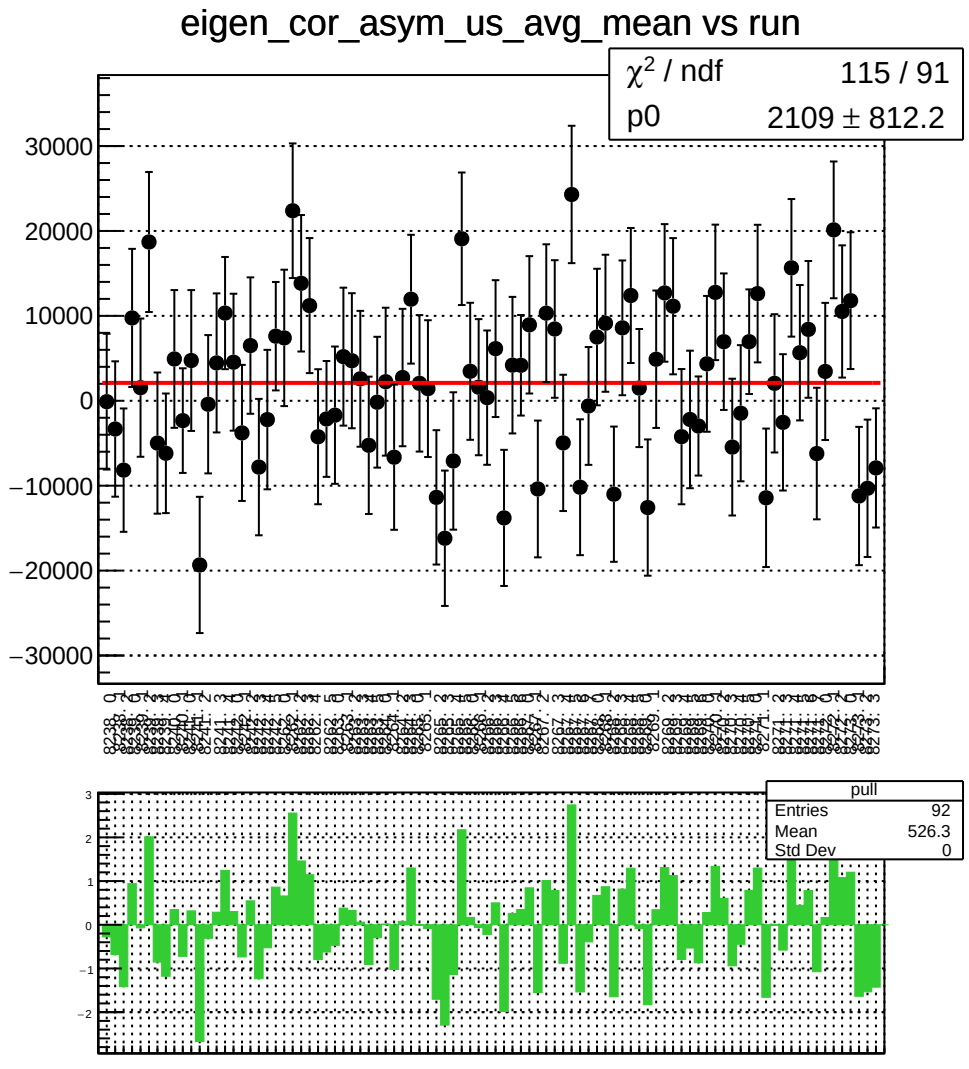

pull1D
Entries 92
Mean 0.003688
Std Dev 1.11
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

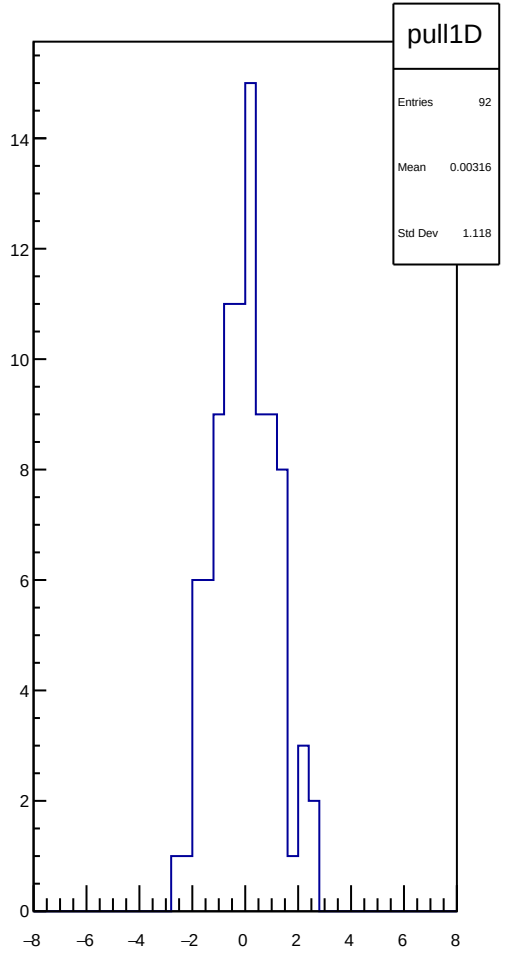

overload_cor_asym_us_avg_rms vs run
$\chi^2$ / ndf 499 / 91
p0 765.8 ± 0.5736
840
820
800
780
760
740

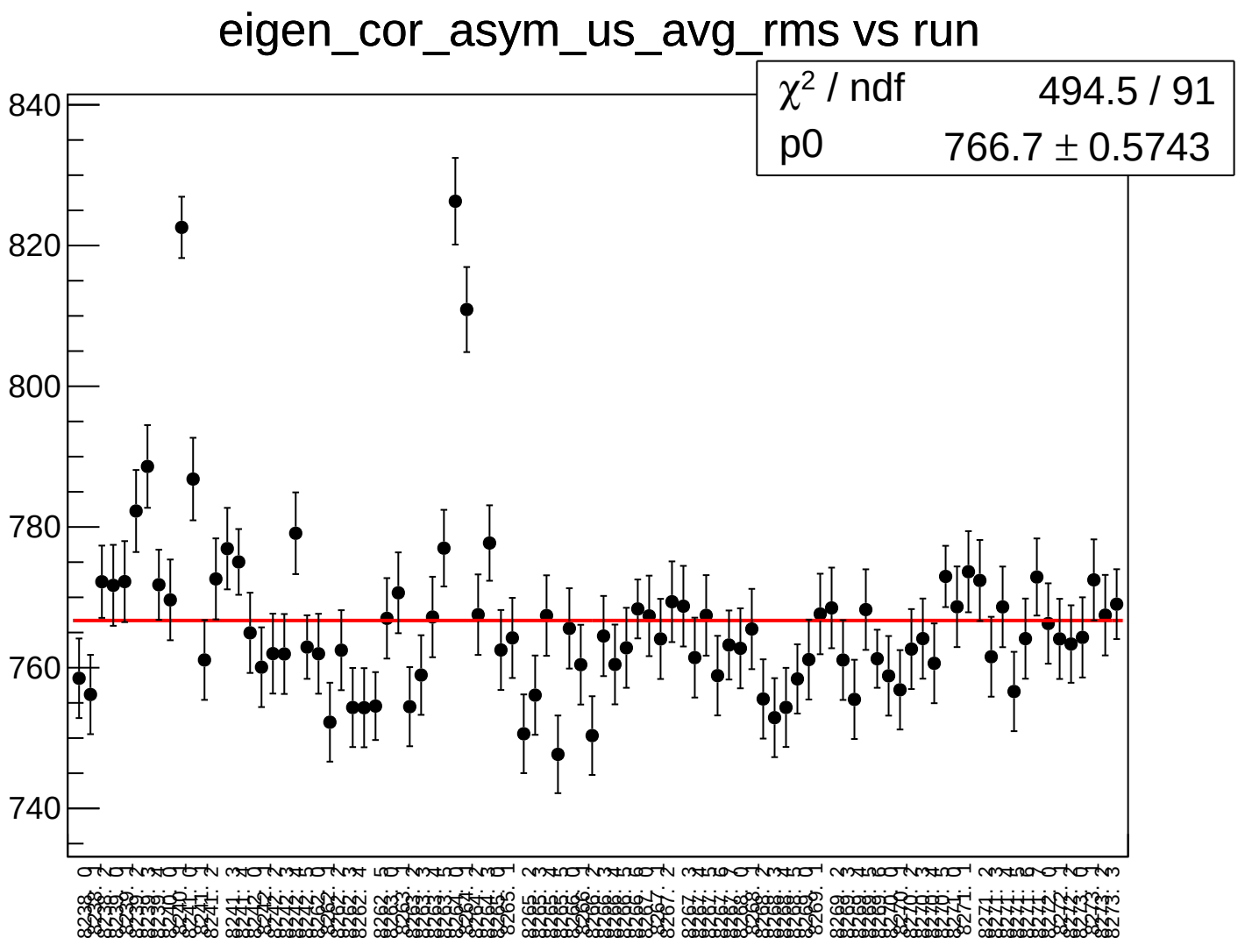

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 67.57 / 91
p0 3555 ± 1759
pull
Entries 92
Mean −493.1
Std Dev 0

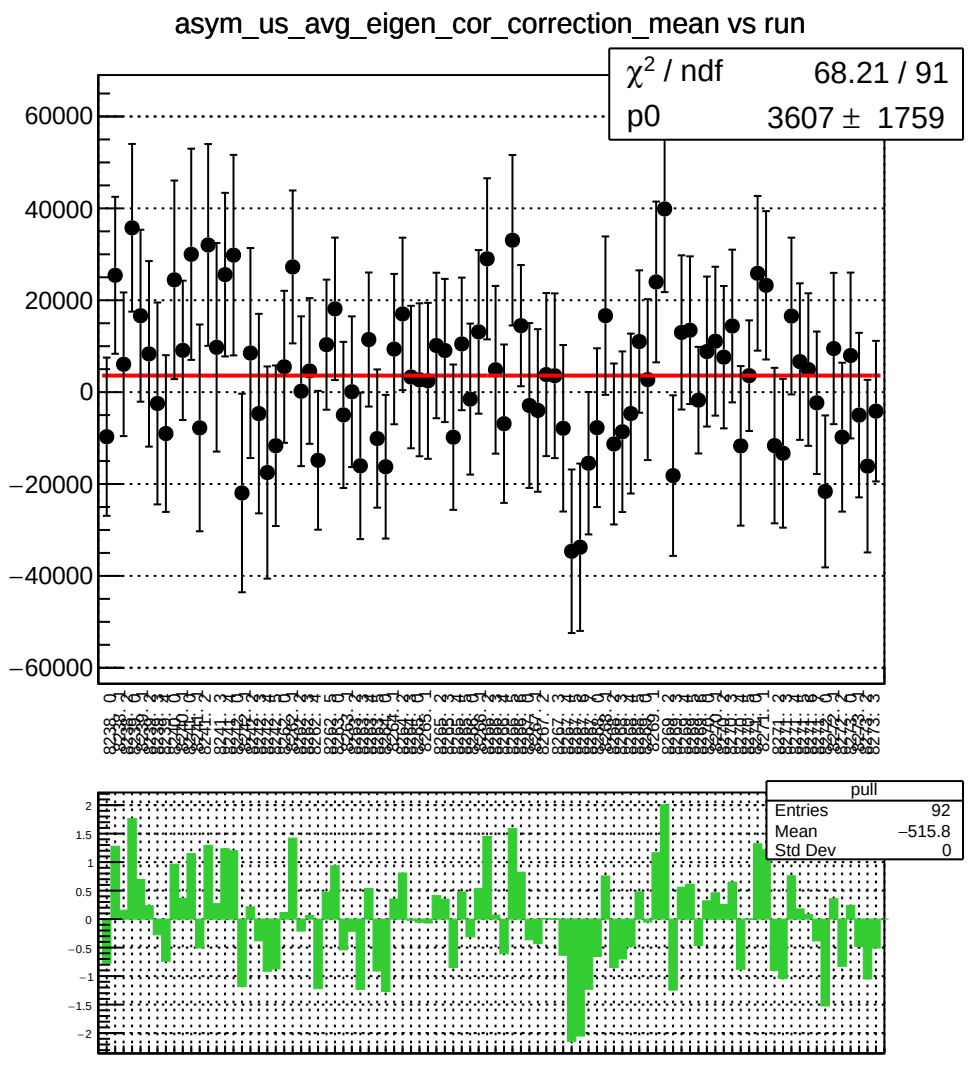

pull1D
Entries 92
Mean 0.006908
Std Dev 0.857

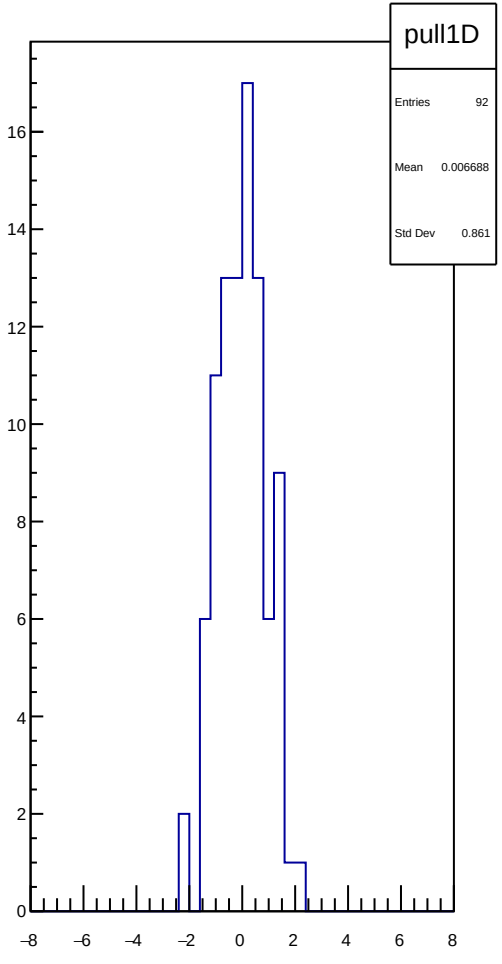

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 2.021e+04 / 91
p0 1651 ± 1.244
2200
2000
1800
1600
1400

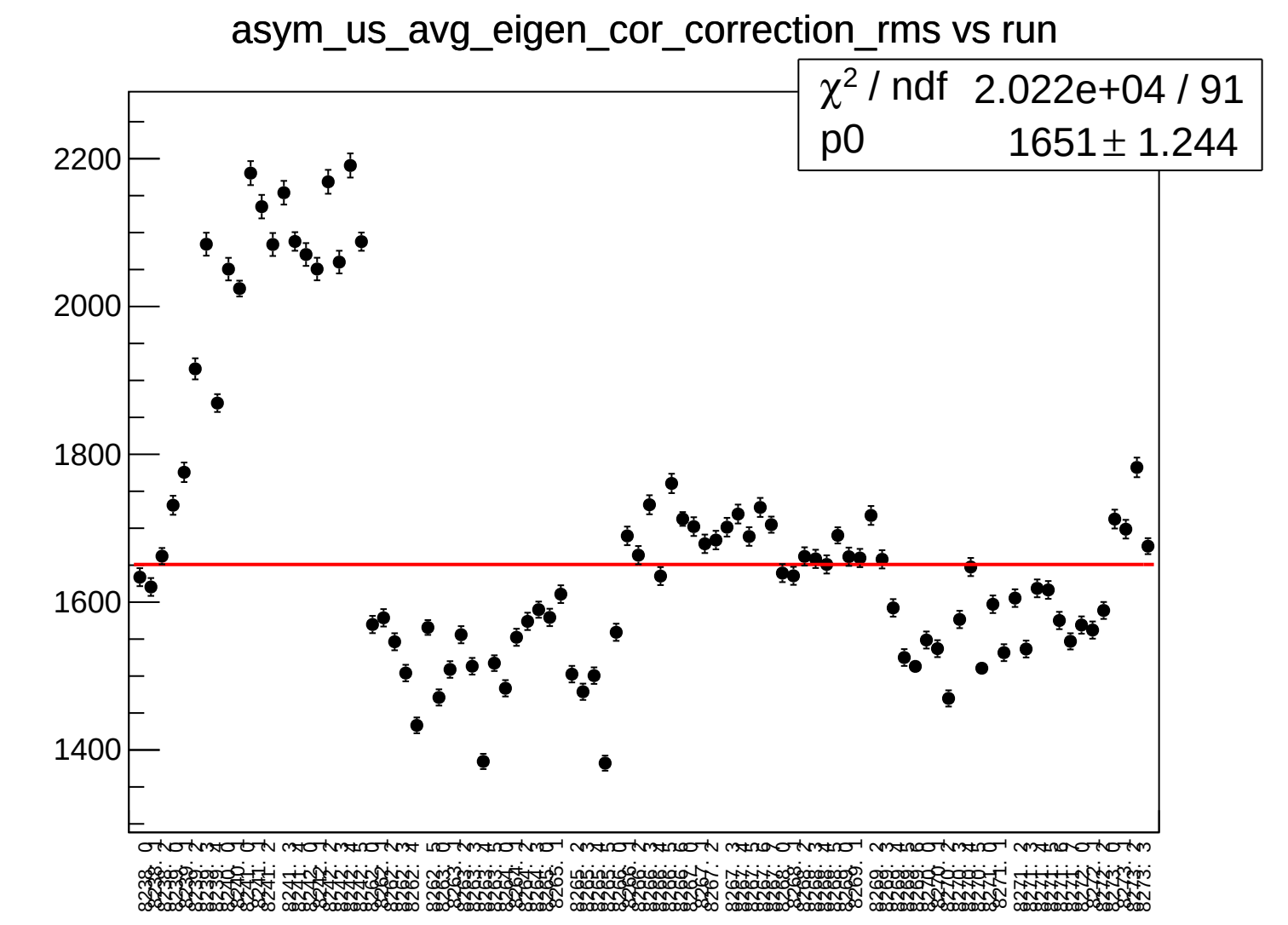

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 115 / 91
p0 2109 ± 812.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 526.3
Std Dev 0
3
2
1
0
−1
−2

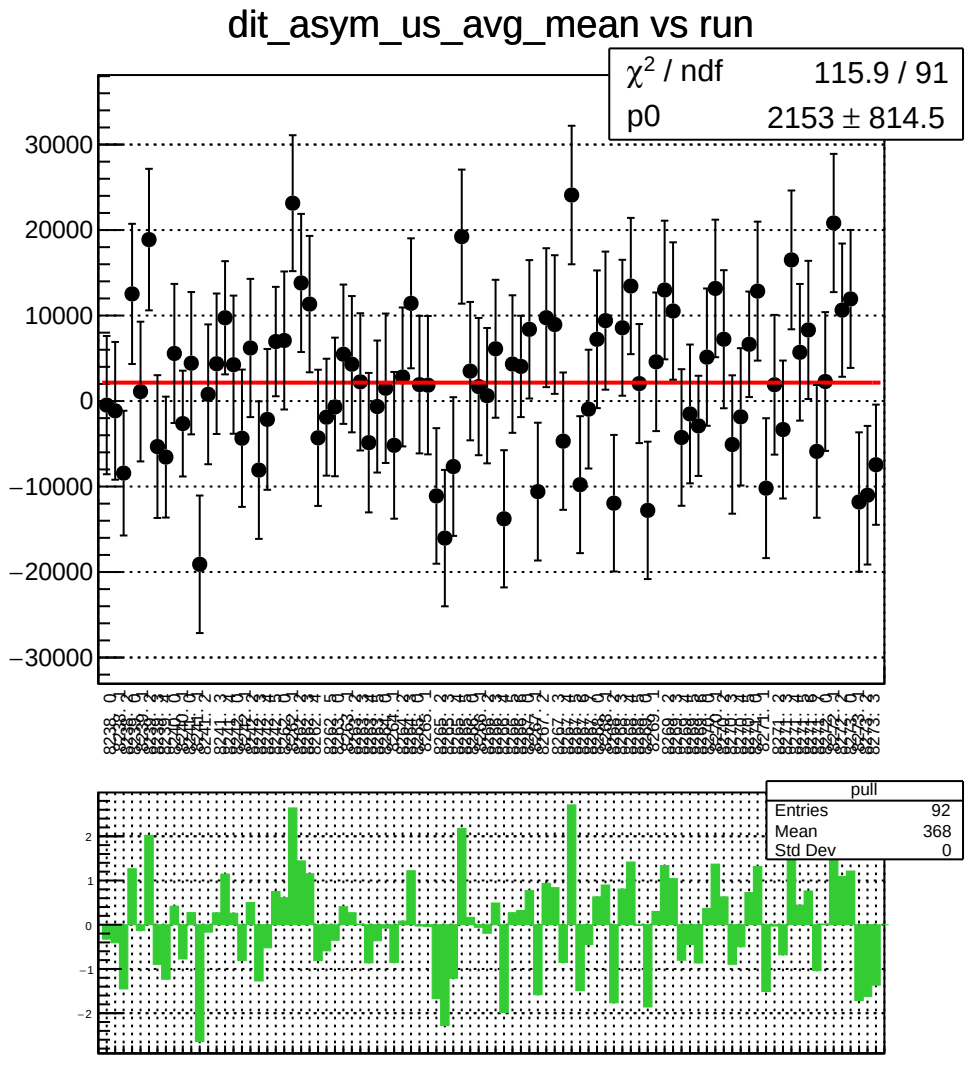

pull1D
Entries 92
Mean 0.00316
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

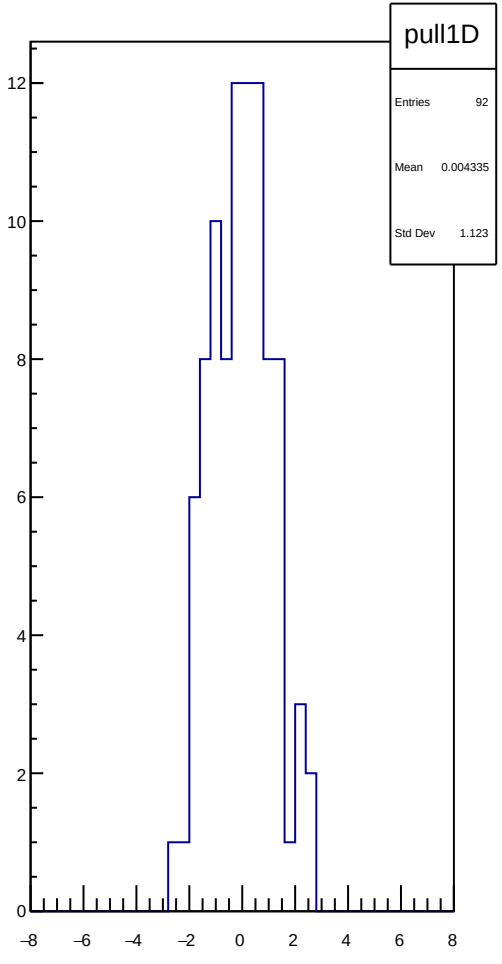

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 494.5 / 91
p0 766.7 ± 0.5743
840
820
800
780
760
740

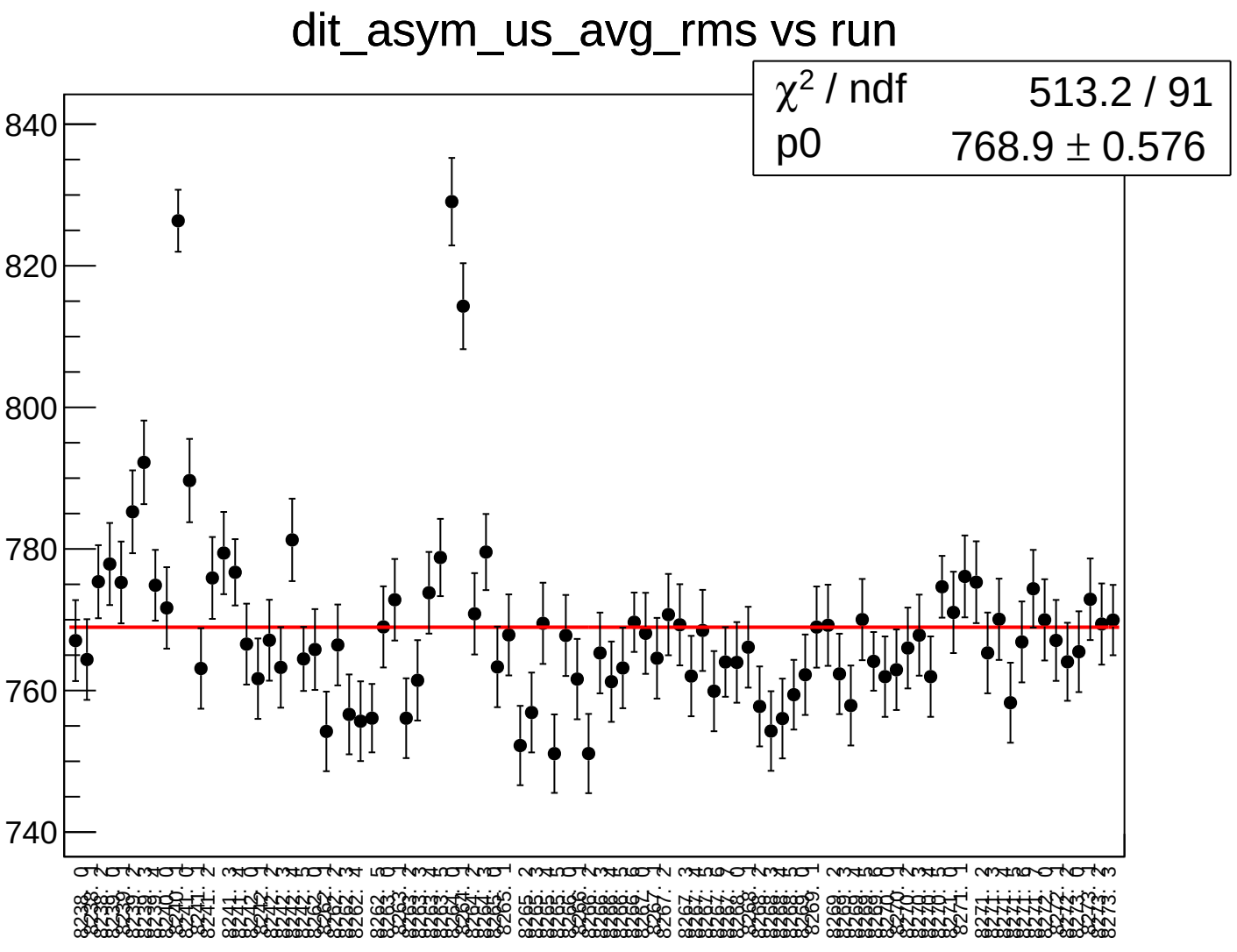

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 68.21 / 91
p0 3607 ± 1759
pull
Entries 92
Mean −515.8
Std Dev 0

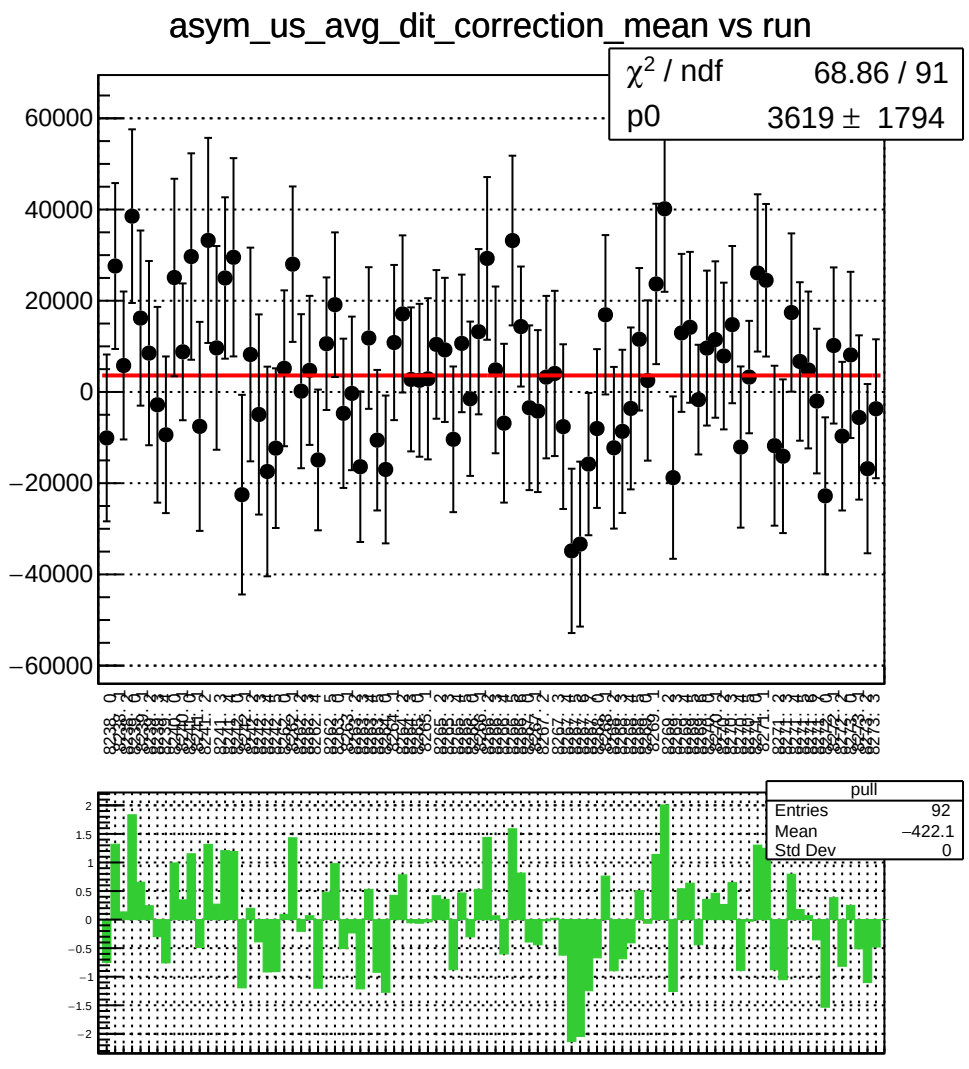

pull1D
Entries 92
Mean 0.006688
Std Dev 0.861

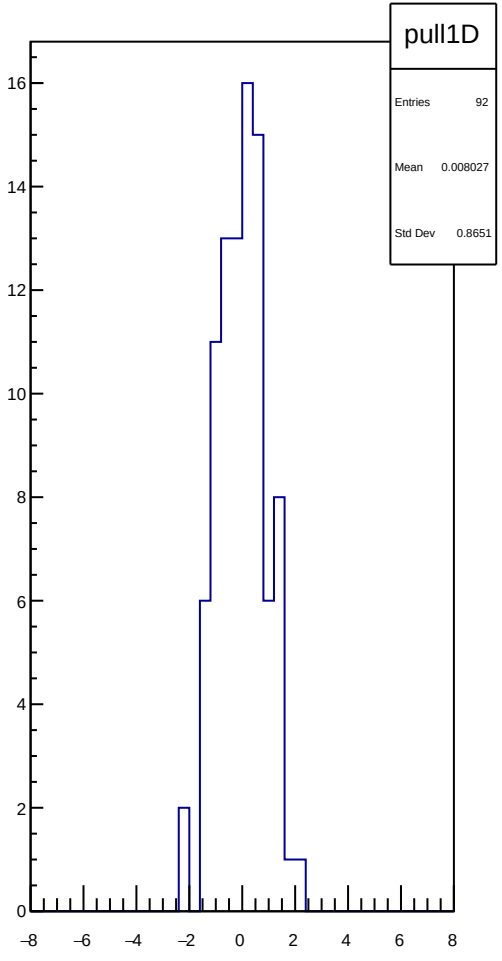

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.022e+04 / 91
p0 1651 ± 1.244
2200
2000
1800
1600
1400

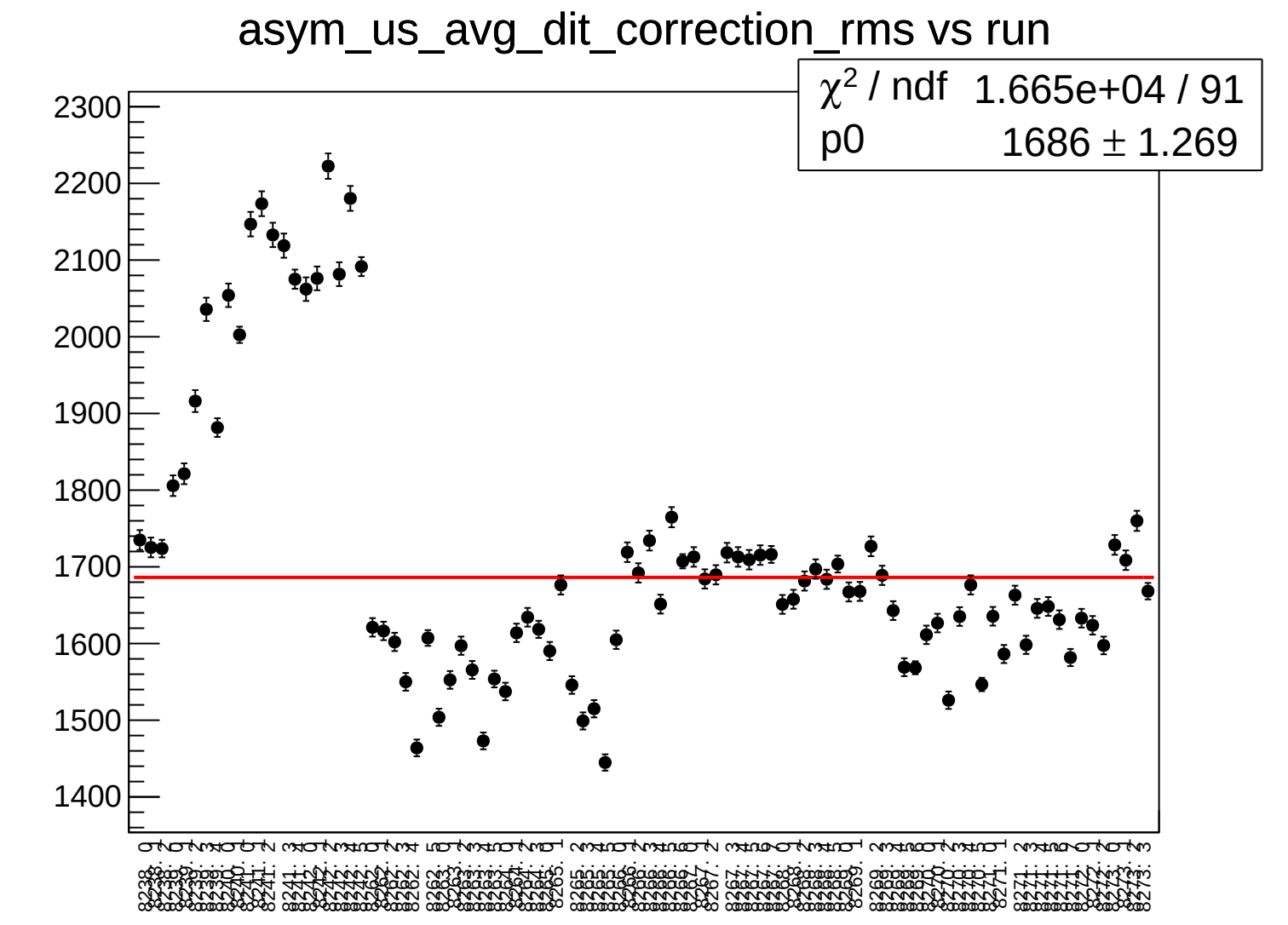

dit_asym_us_avg_mean vs run
χ² / ndf 115.9 / 91
p0 2153 ± 814.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 368
Std Dev 0
2
1
0
−1
−2

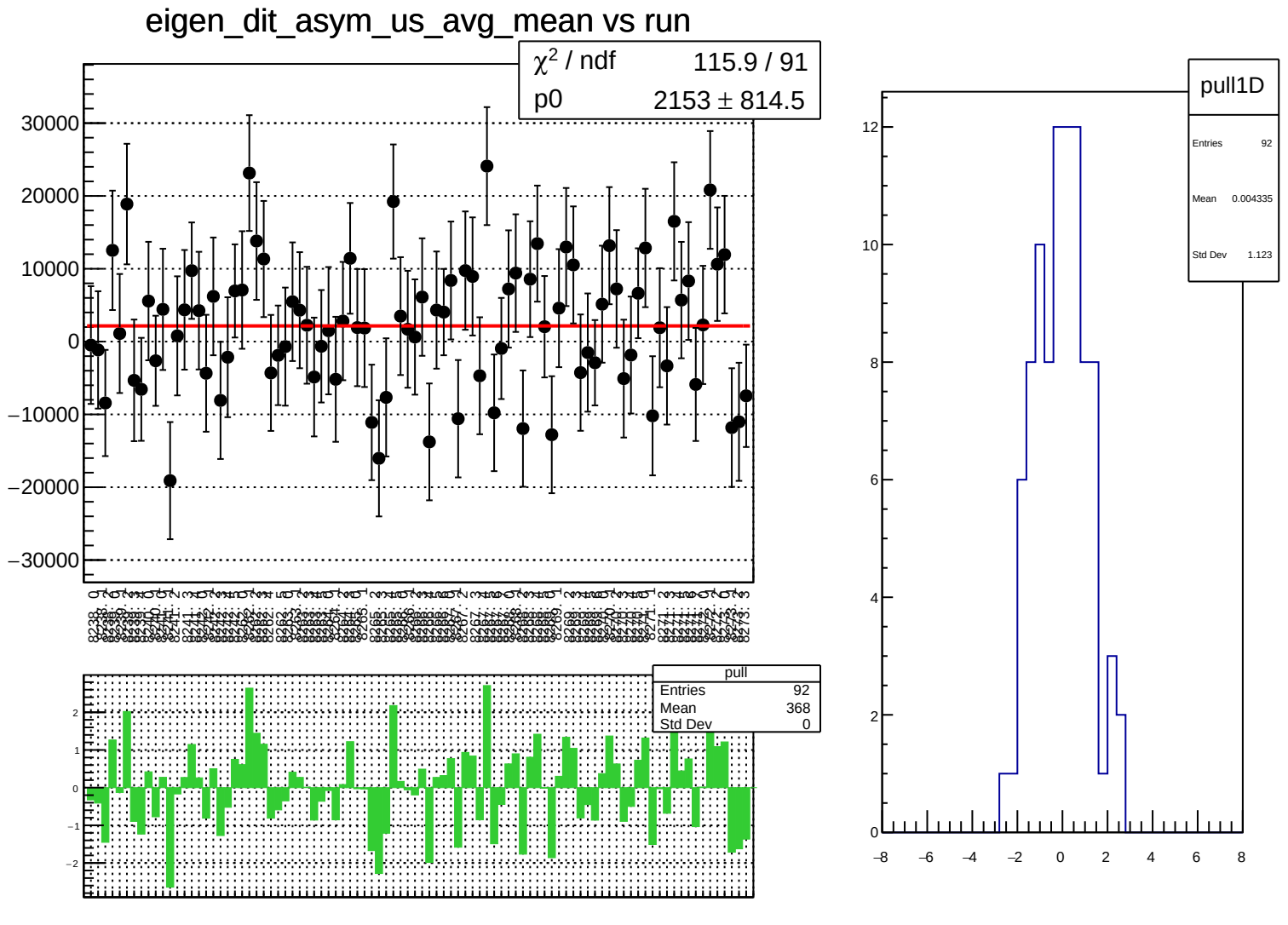

pull1D
Entries 92
Mean 0.004335
Std Dev 1.123
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

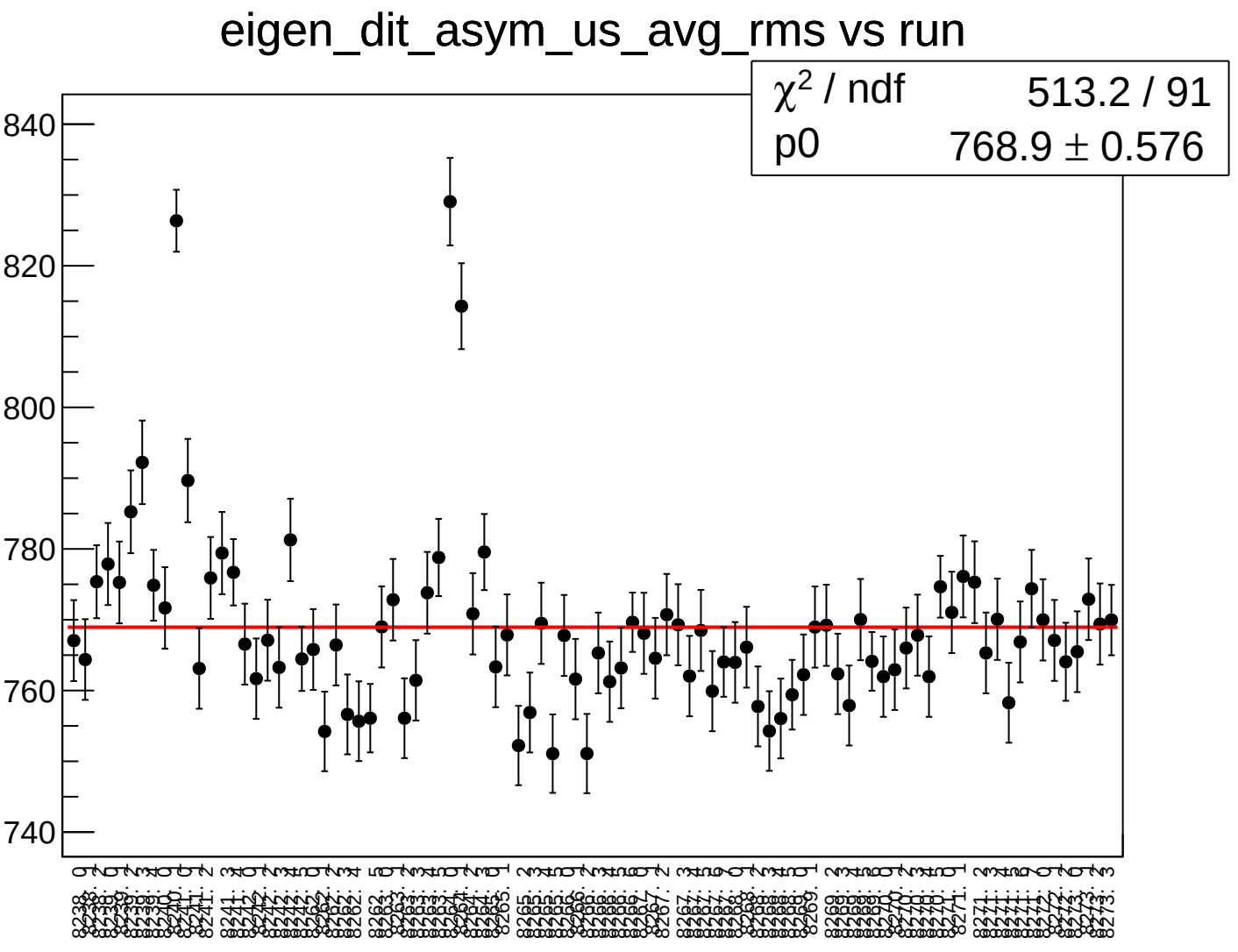

dit_asym_us_avg_rms vs run
χ² / ndf 513.2 / 91
p0 768.9 ± 0.576
840
820
800
780
760
740

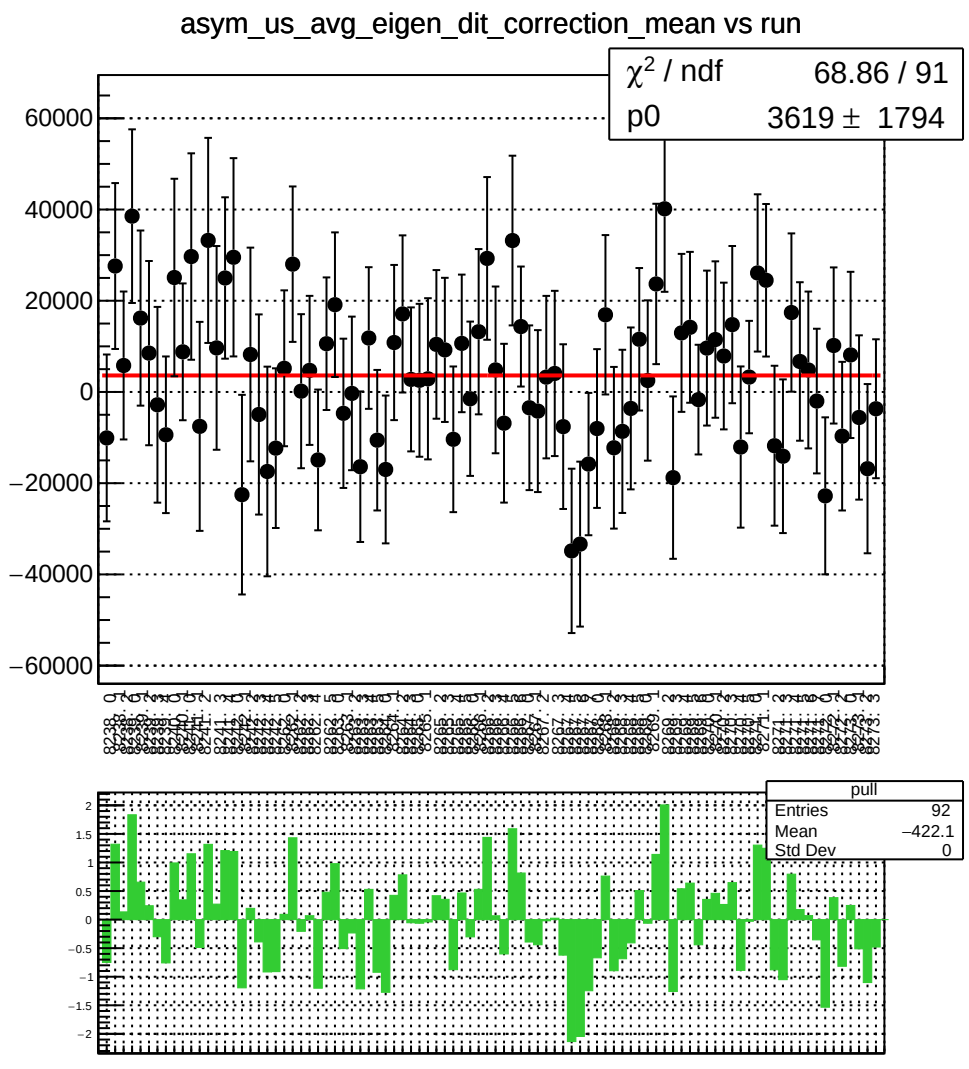

asym_us_avg_dit_correction_mean vs run
$\chi^2$ / ndf 68.86 / 91
p0 3619 ± 1794
pull
Entries 92
Mean −422.1
Std Dev 0

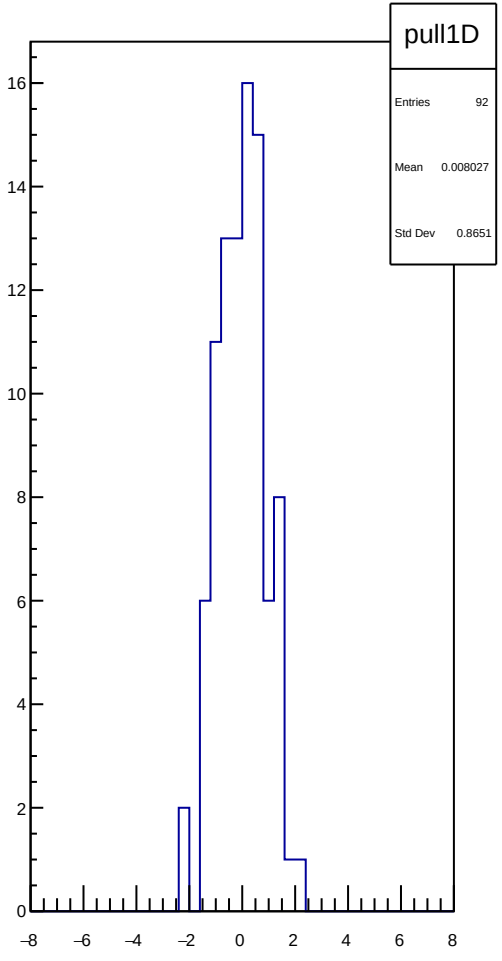

pull1D
Entries 92
Mean 0.008027
Std Dev 0.8651

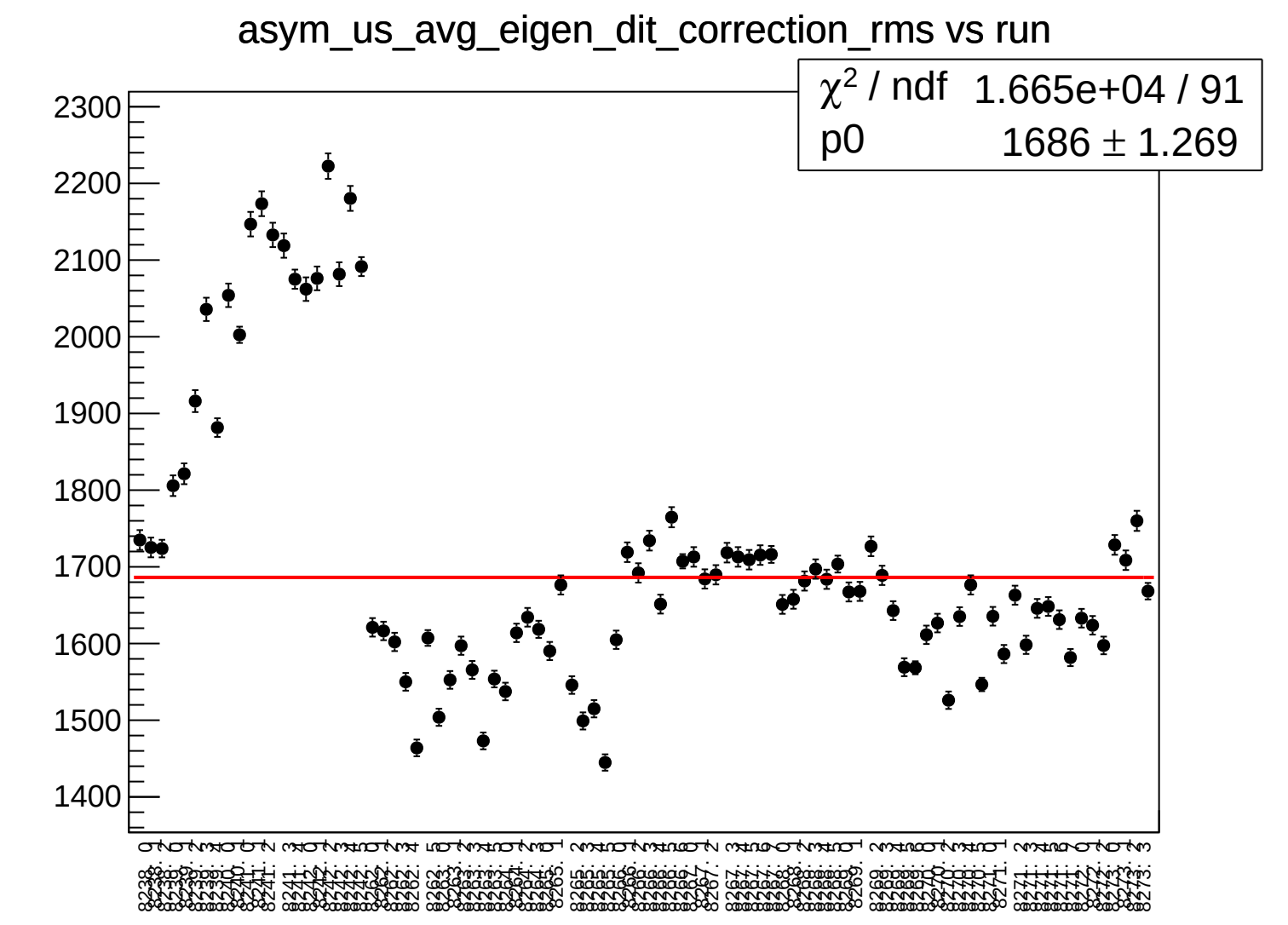

asym_us_avg_dit_correction_rms vs run
χ² / ndf 1.665e+04 / 91
p0 1686 ± 1.269
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

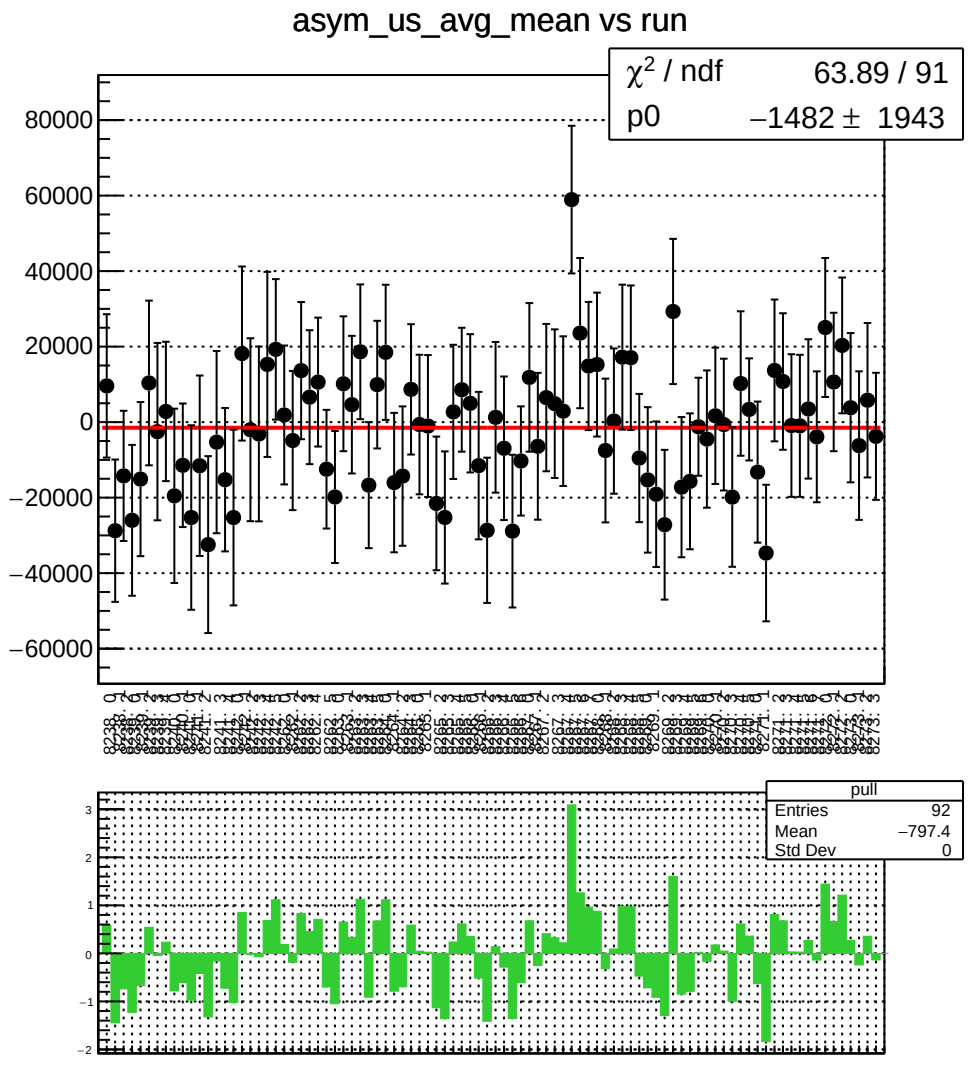

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 115.9 / 91
p0 2153 ± 814.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 368
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.004335
Std Dev 1.123
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

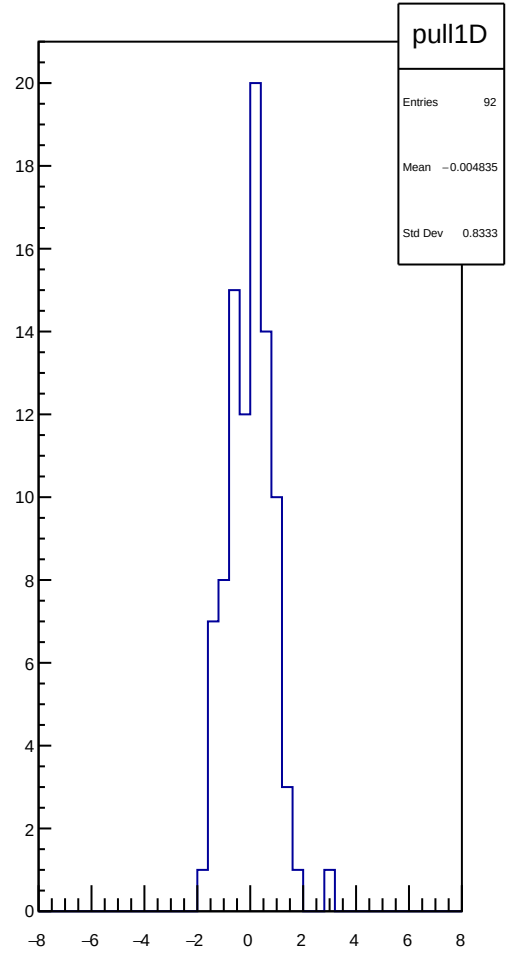

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 513.2 / 91
p0 768.9 ± 0.576
840
820
800
780
760
740

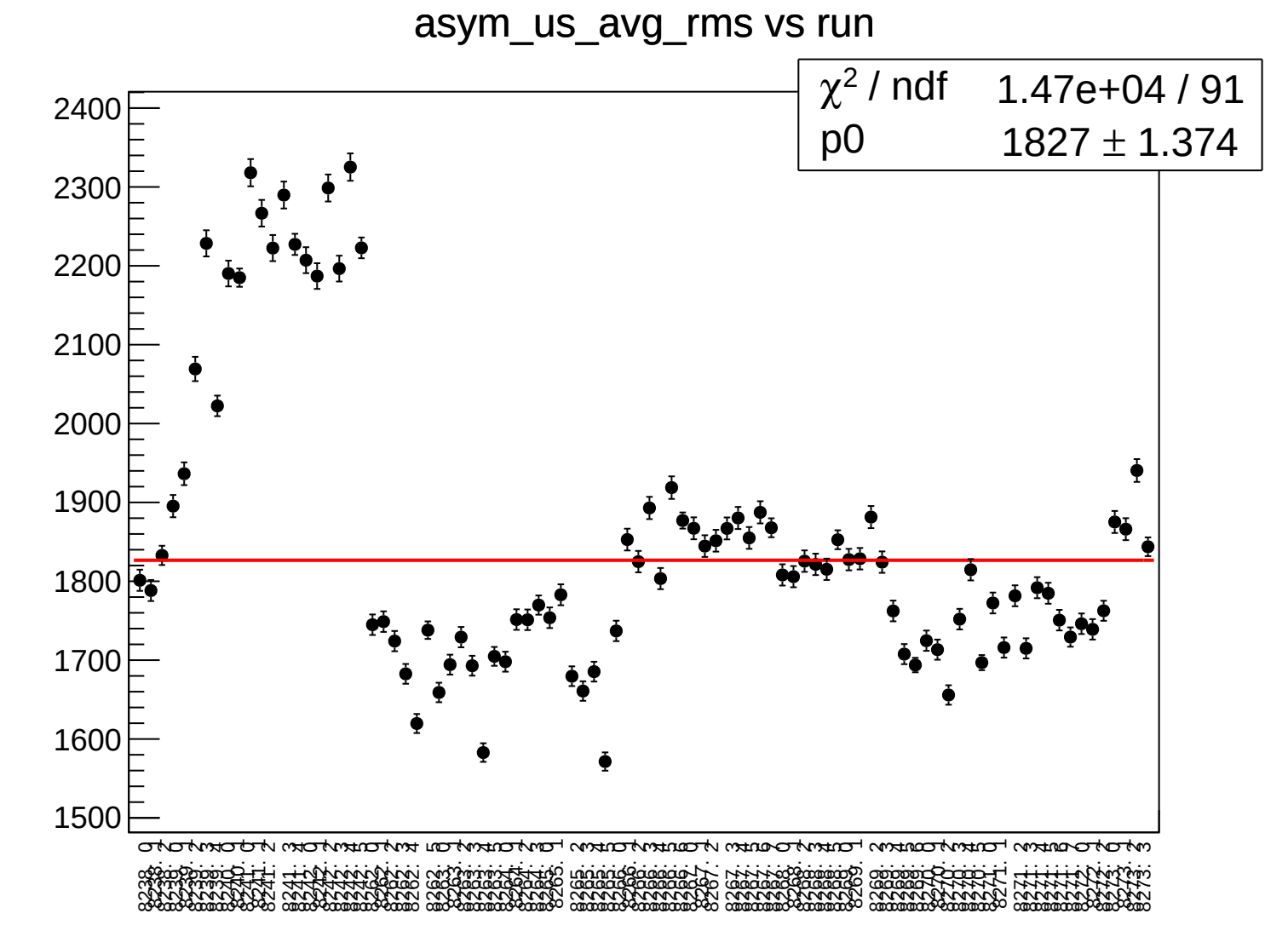

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 68.86 / 91
p0 3619 ± 1794
pull
Entries 92
Mean −422.1
Std Dev 0

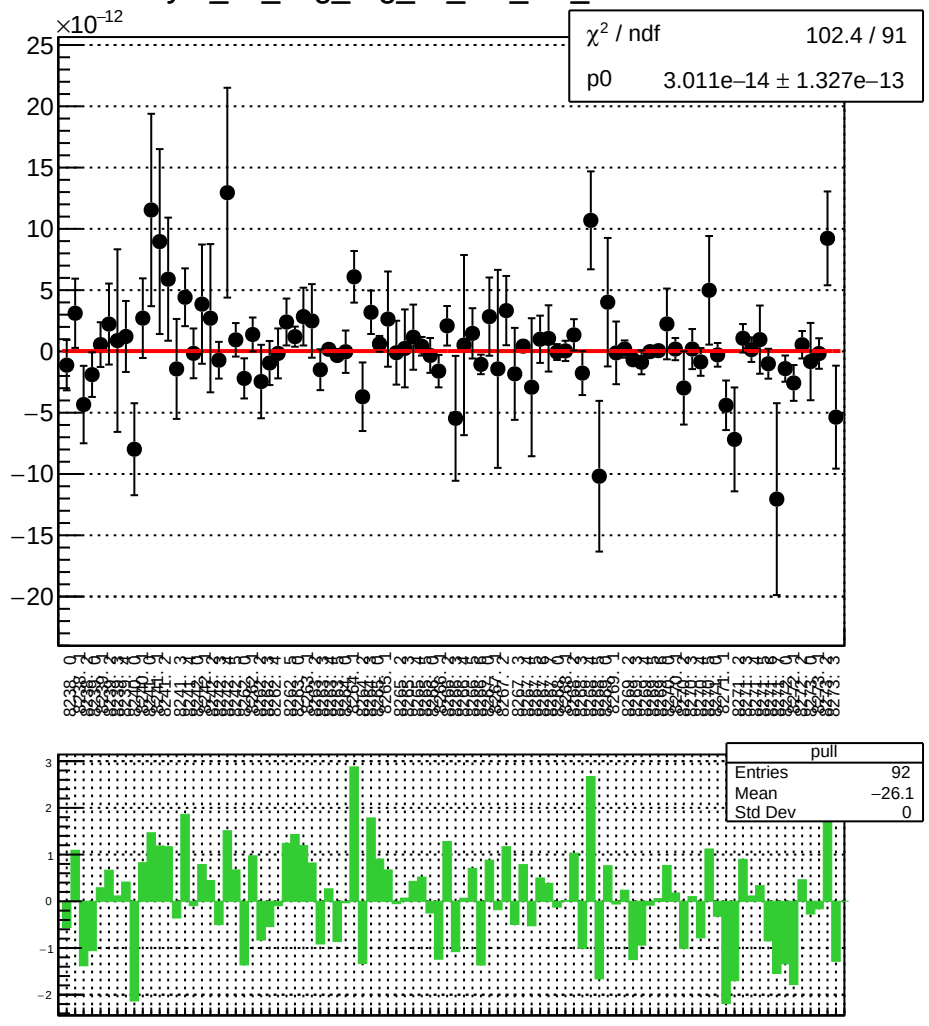

pull1D
Entries 92
Mean 0.008027
Std Dev 0.8651

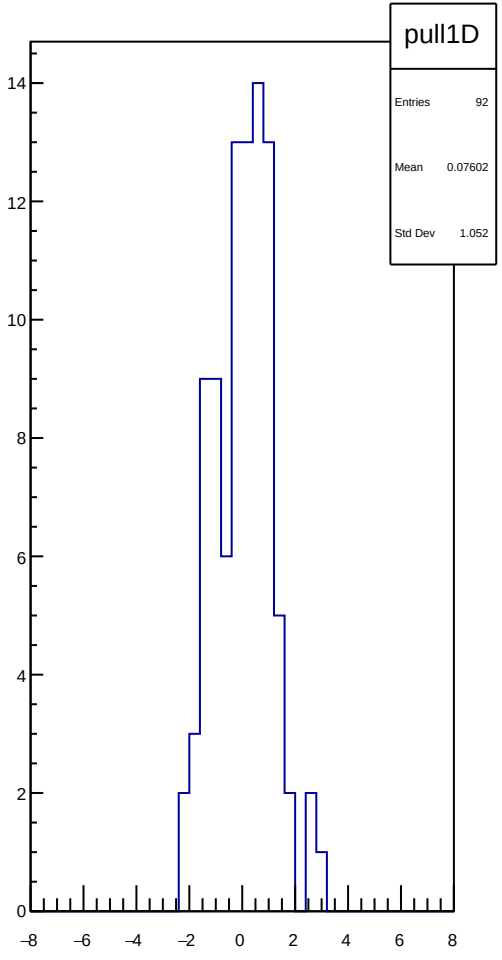

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.665e+04 / 91
p0 1686 ± 1.269
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

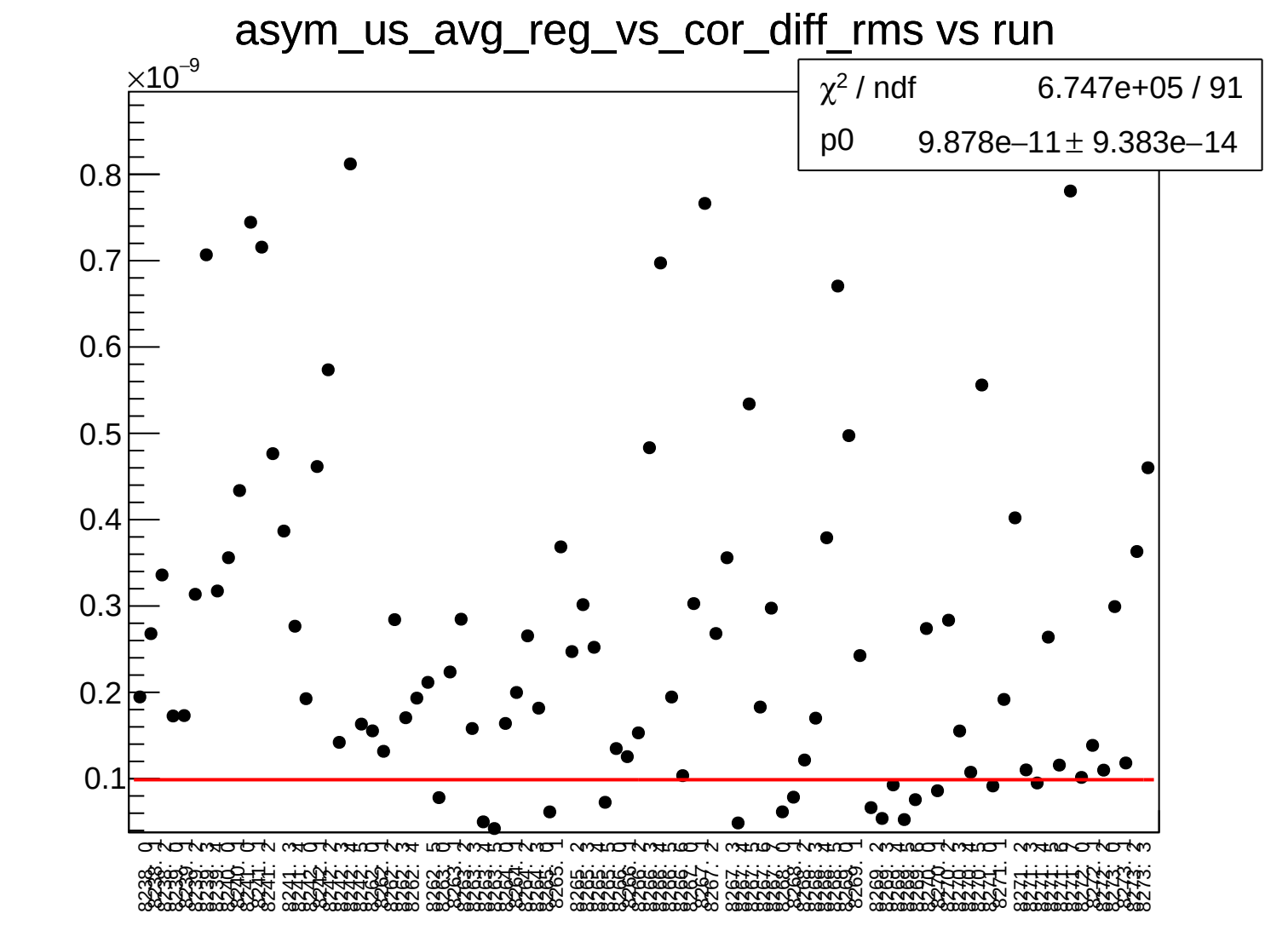

asym_us_avg_mean vs run
χ² / ndf 63.89 / 91
p0 −1482 ± 1943
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −797.4
Std Dev 0
3
2
1
0
−1
−2

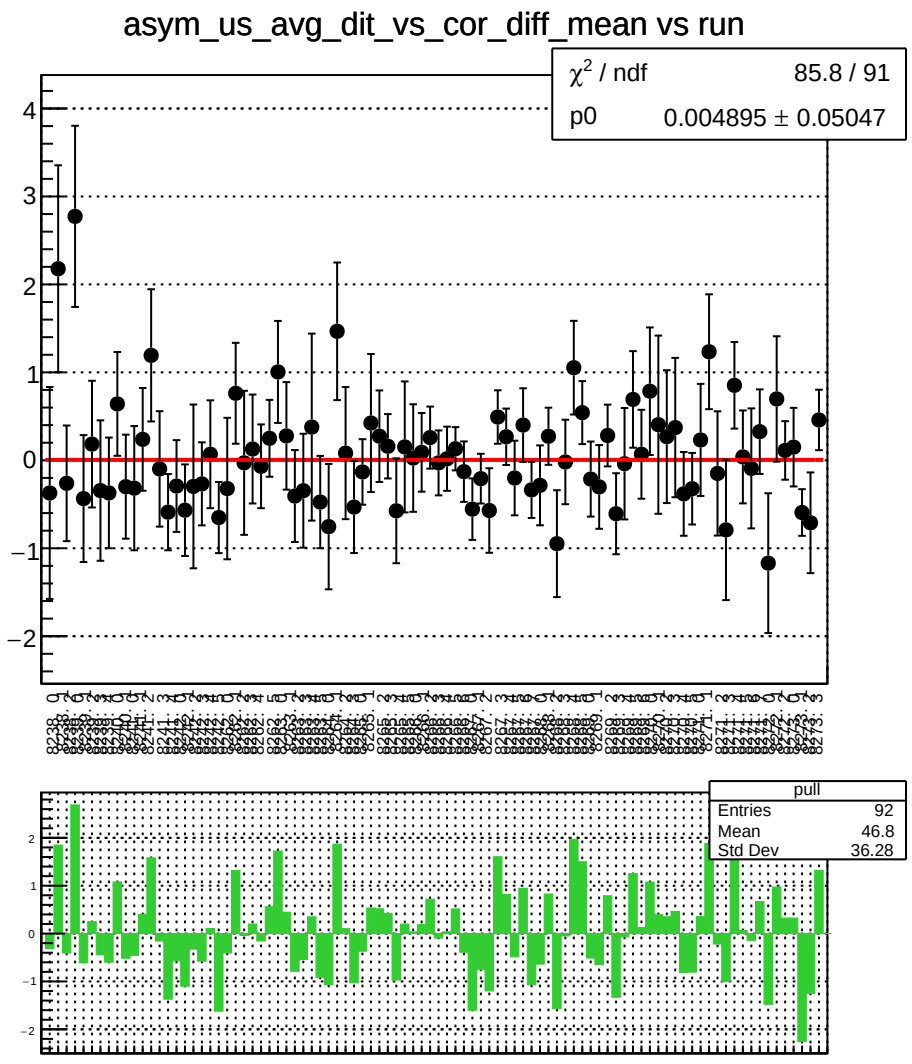

pull1D
Entries 92
Mean −0.004835
Std Dev 0.8333
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

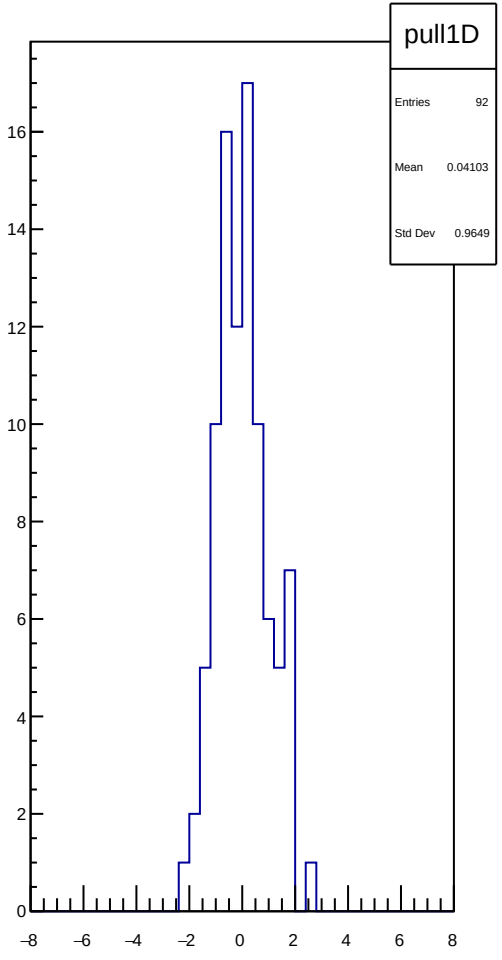

asym_us_avg_rms vs run
χ² / ndf 1.47e+04 / 91
p0 1827 ± 1.374
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500

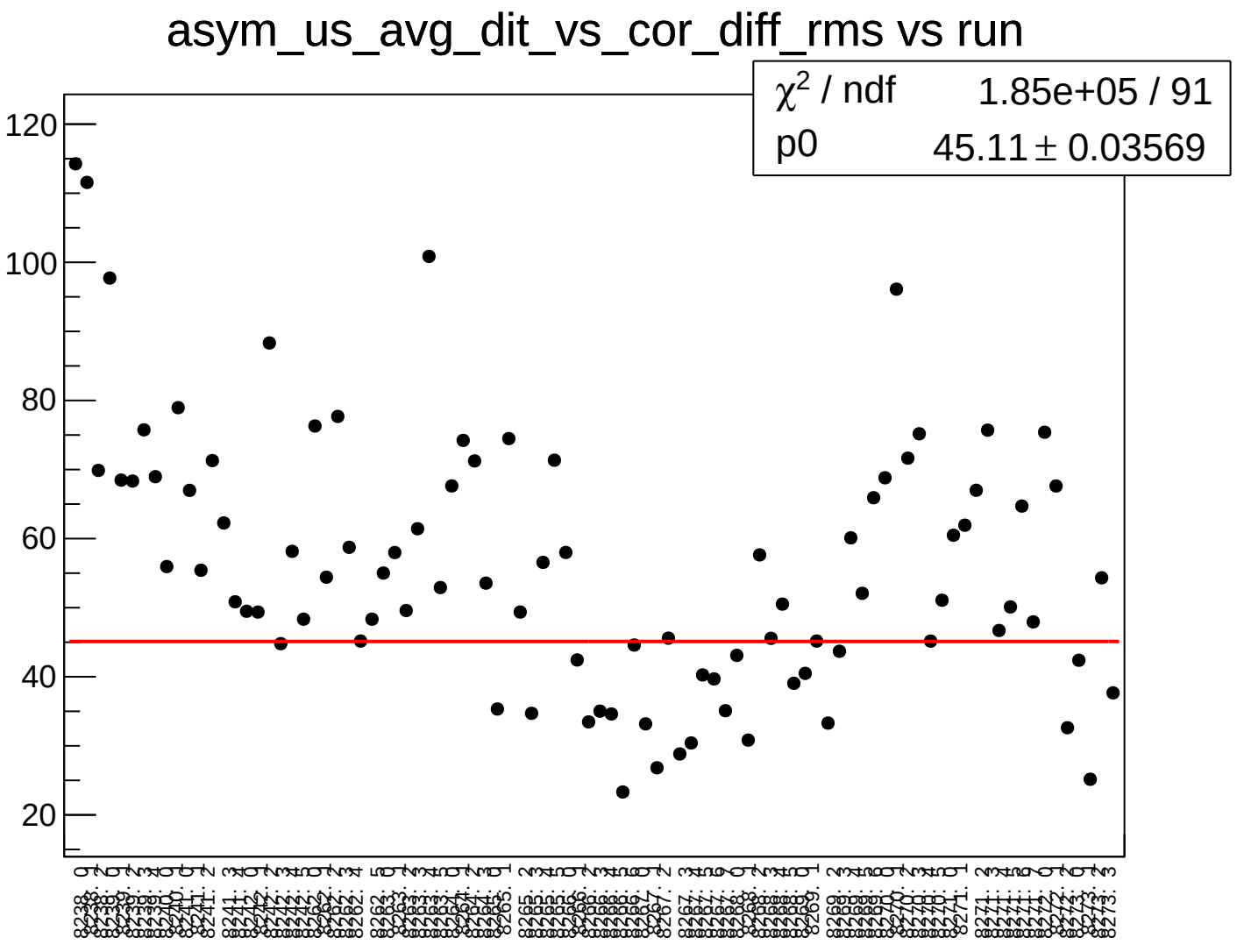

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.4 / 91
p0 3.011e−14 ± 1.327e−13
pull
Entries 92
Mean −26.1
Std Dev 0

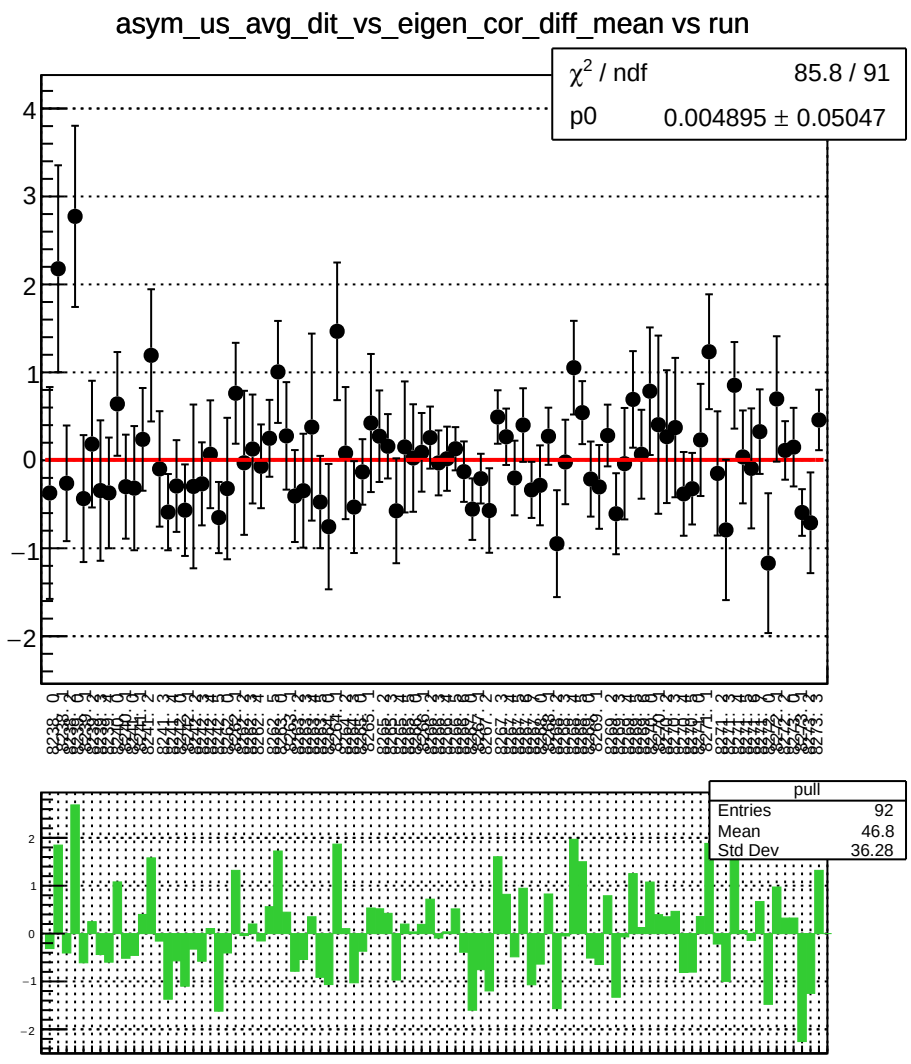

pull1D
Entries 92
Mean 0.07602
Std Dev 1.052

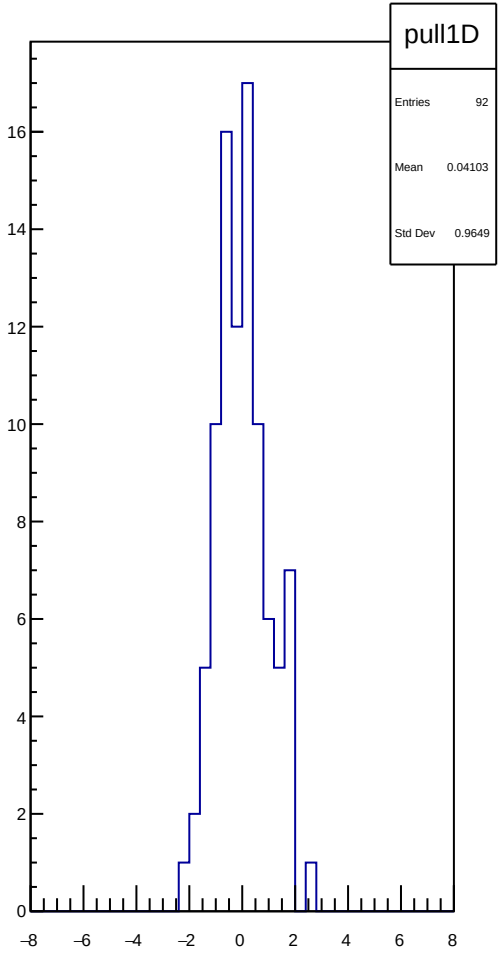

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.747e+05 / 91
p0 9.878e−11 ± 9.383e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

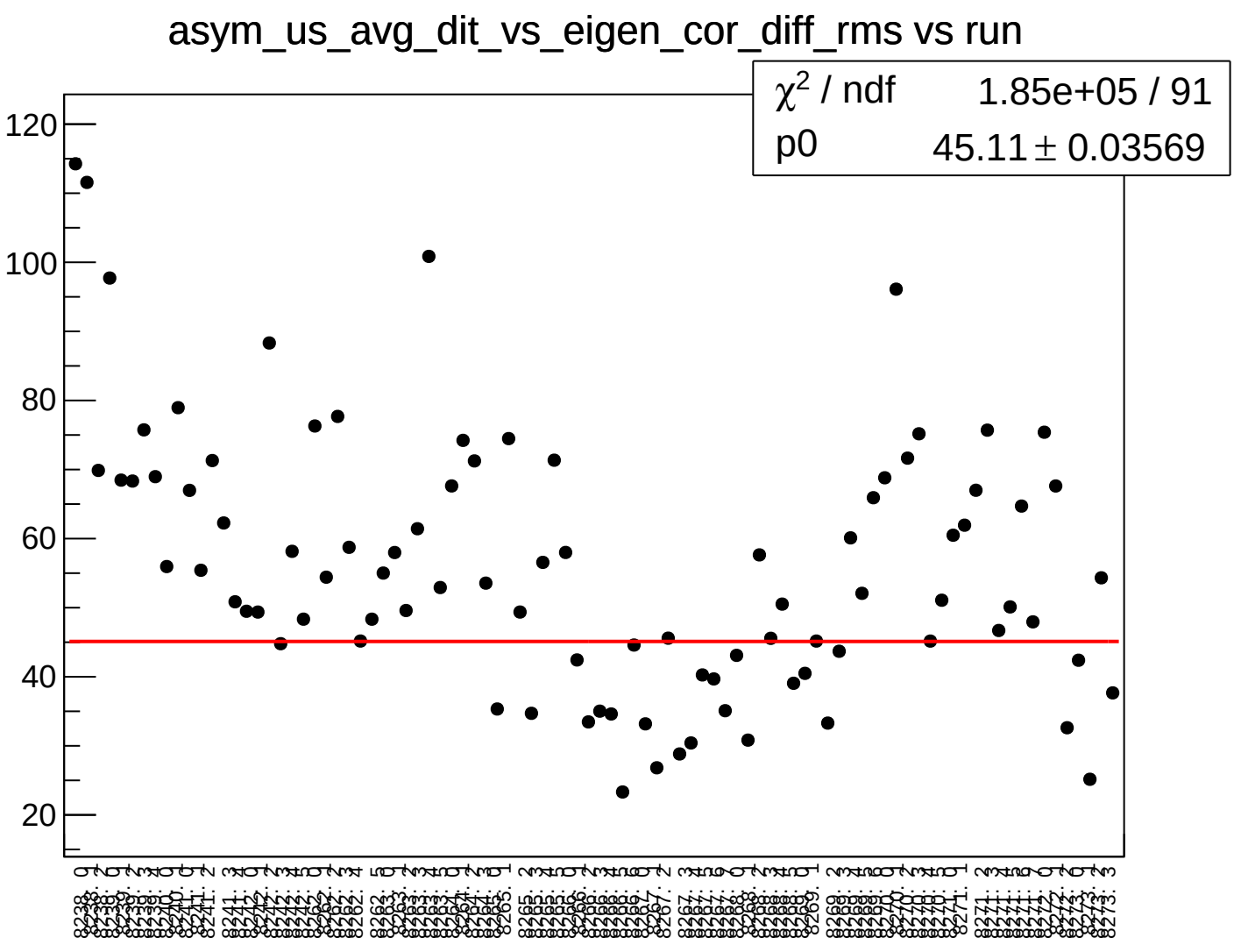

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.8 / 91
p0 0.004895 ± 0.05047
pull
Entries 92
Mean 46.8
Std Dev 36.28

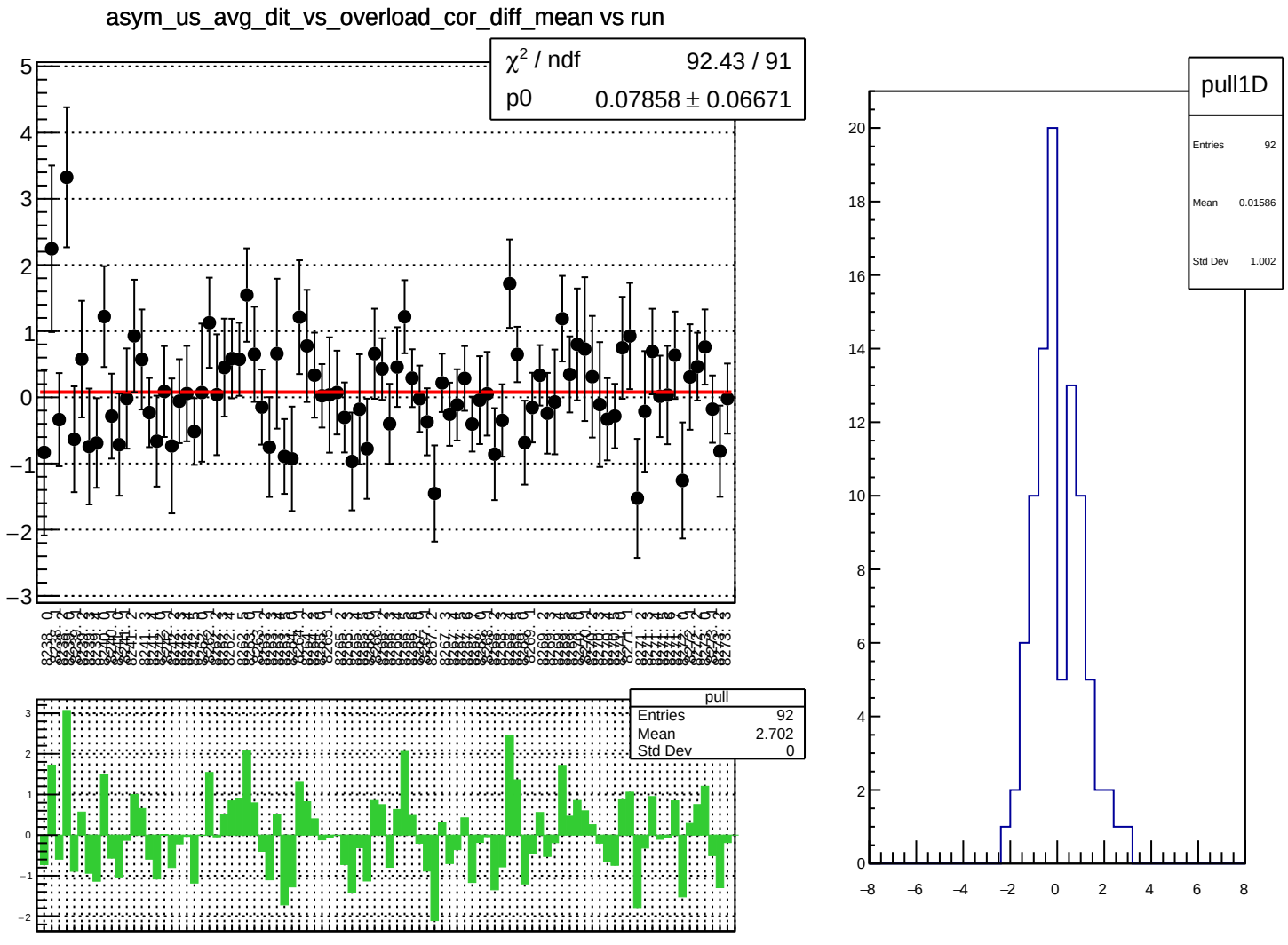

pull1D
Entries 92
Mean 0.04103
Std Dev 0.9649

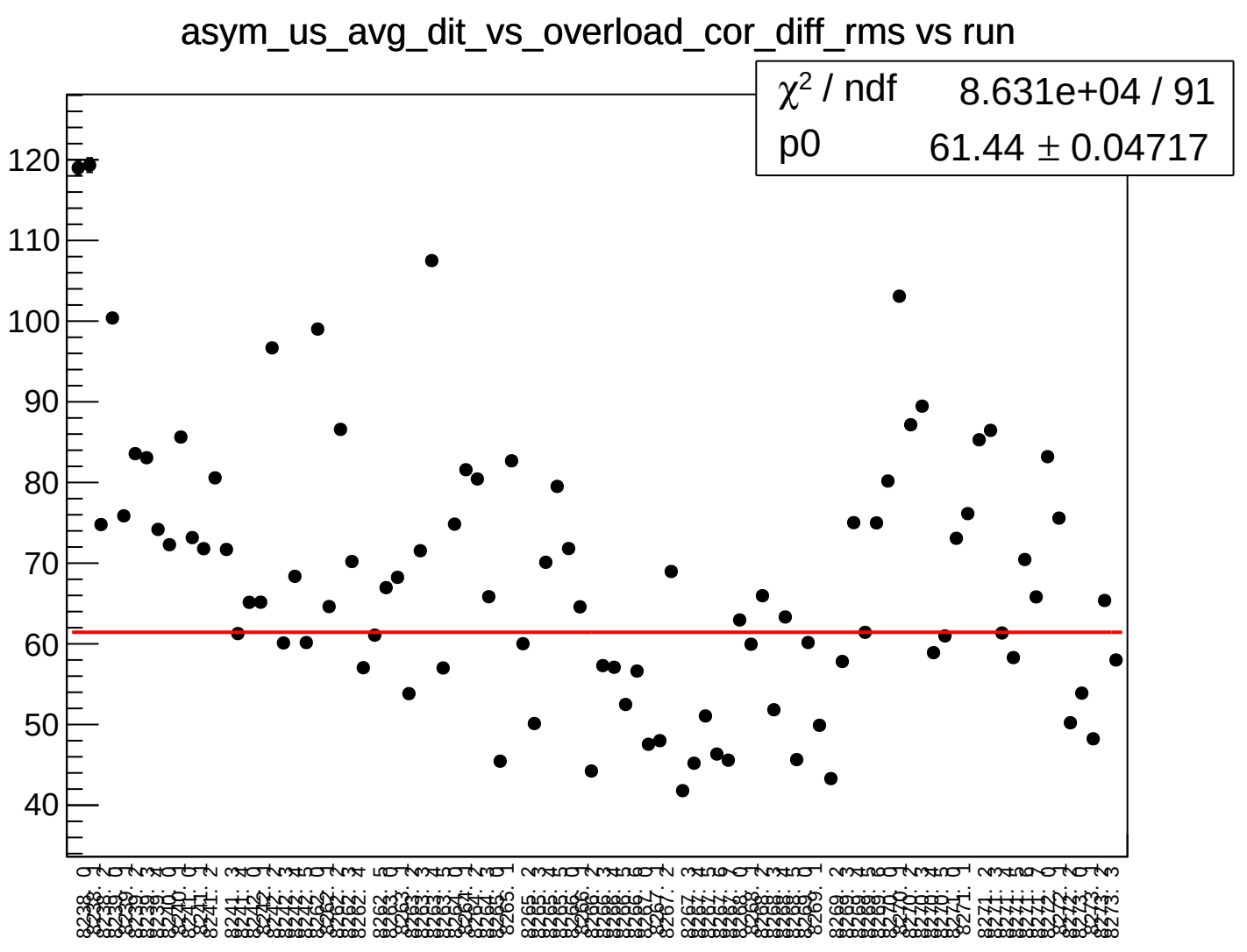

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.85e+05 / 91
p0 45.11 ± 0.03569
120
100
80
60
40
20

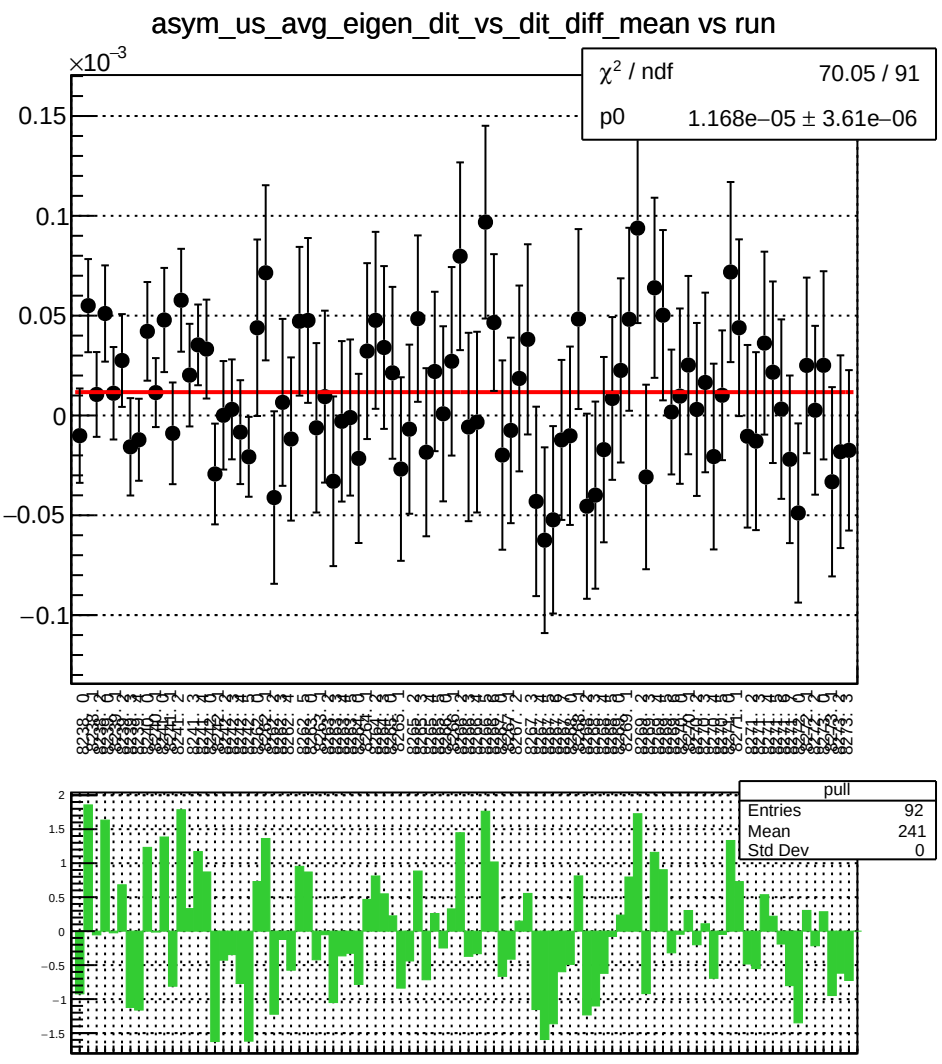

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.8 / 91
p0 0.004895 ± 0.05047
pull
Entries 92
Mean 46.8
Std Dev 36.28

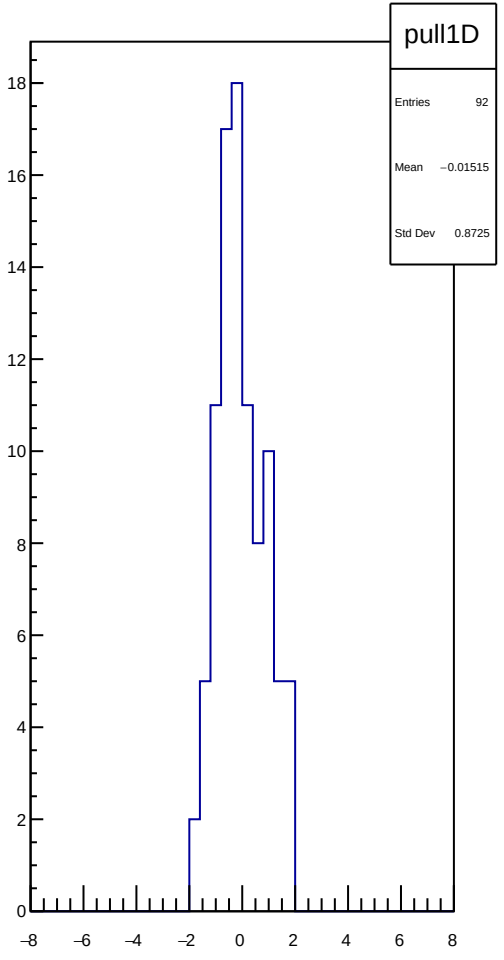

pull1D
Entries 92
Mean 0.04103
Std Dev 0.9649

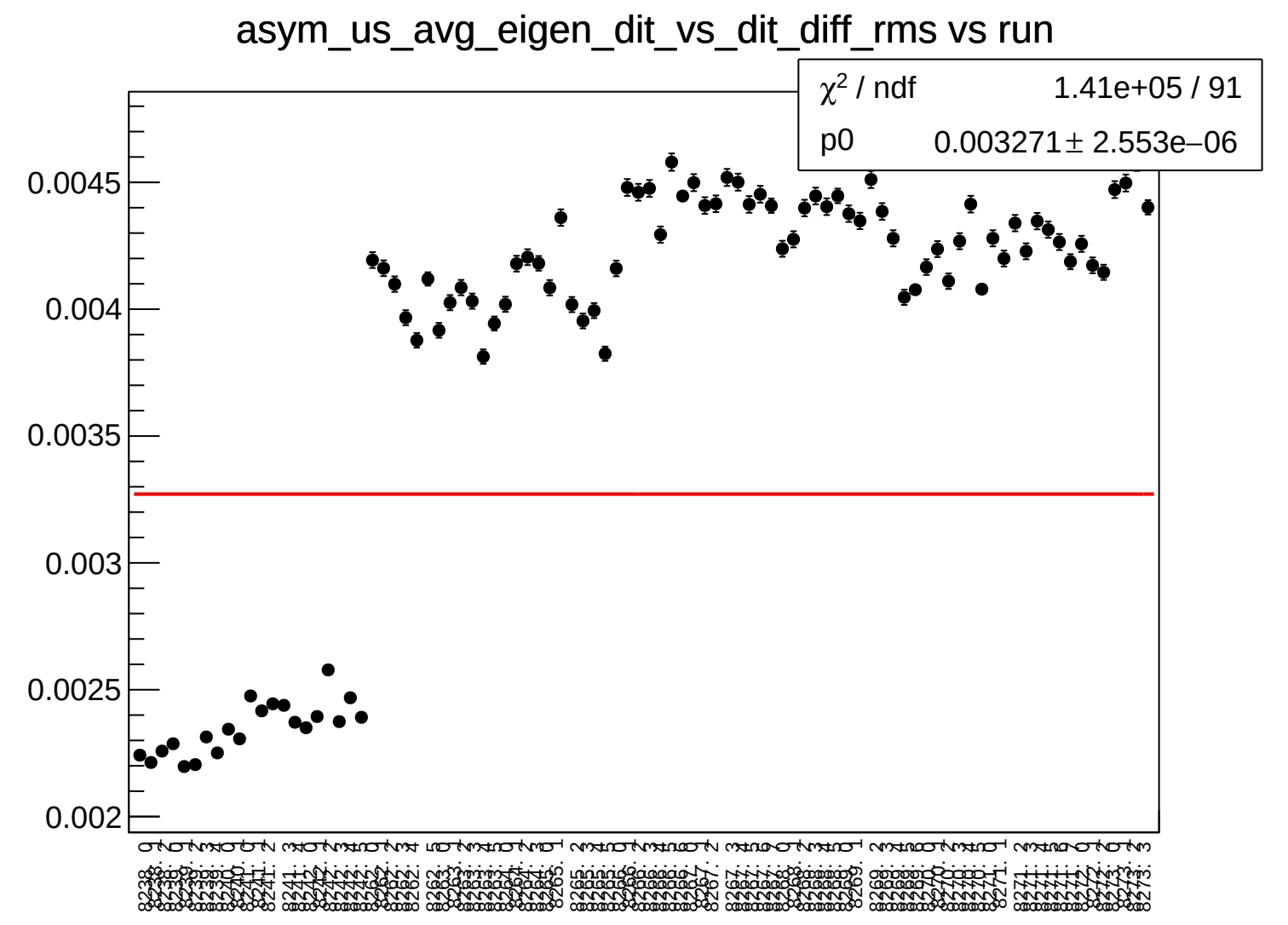

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 1.85e+05 / 91
p0 45.11 ± 0.03569
120
100
80
60
40
20

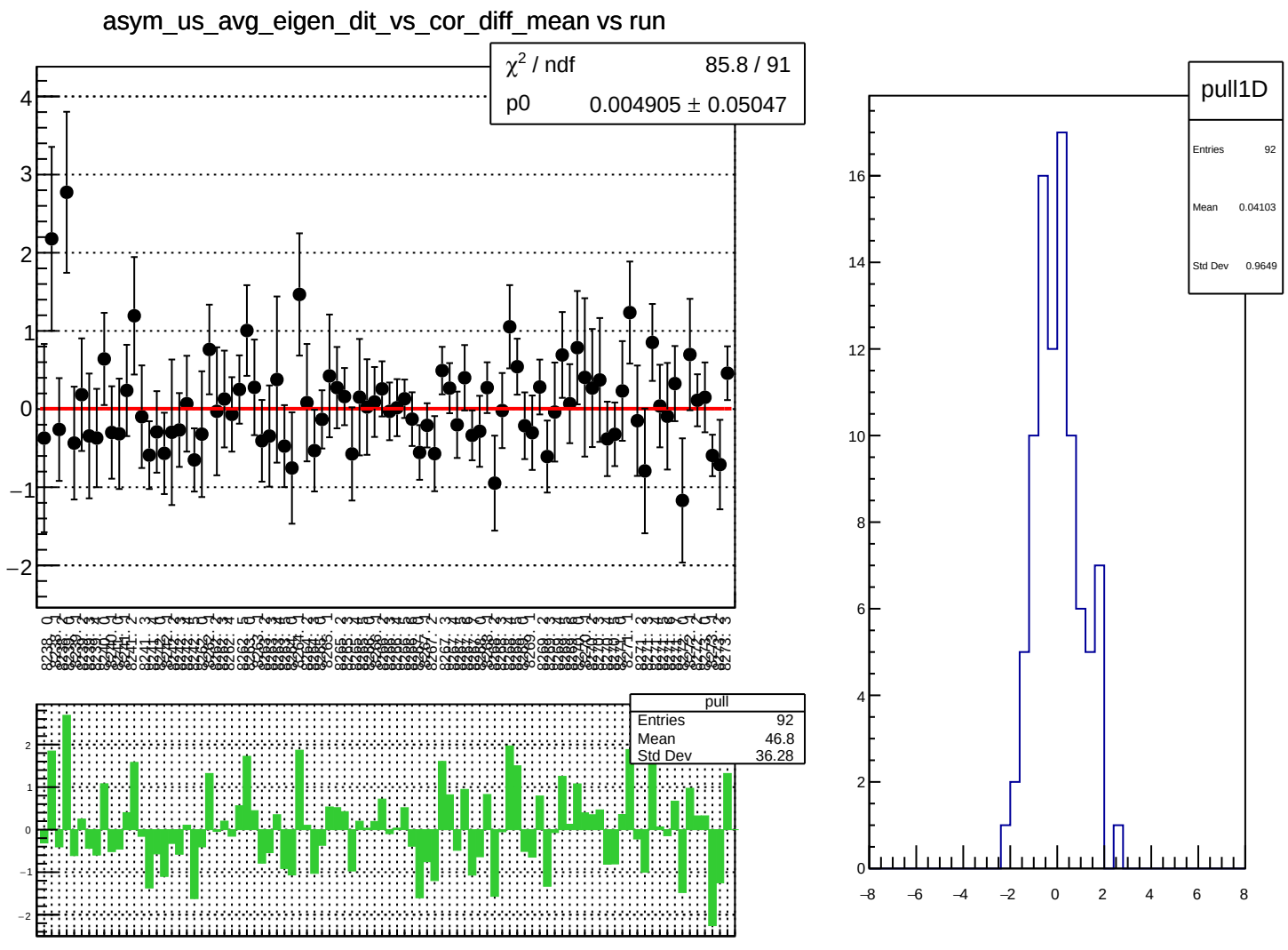

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 92.43 / 91
p0 0.07858 ± 0.06671
pull
Entries 92
Mean −2.702
Std Dev 0
pull1D
Entries 92
Mean 0.01586
Std Dev 1.002

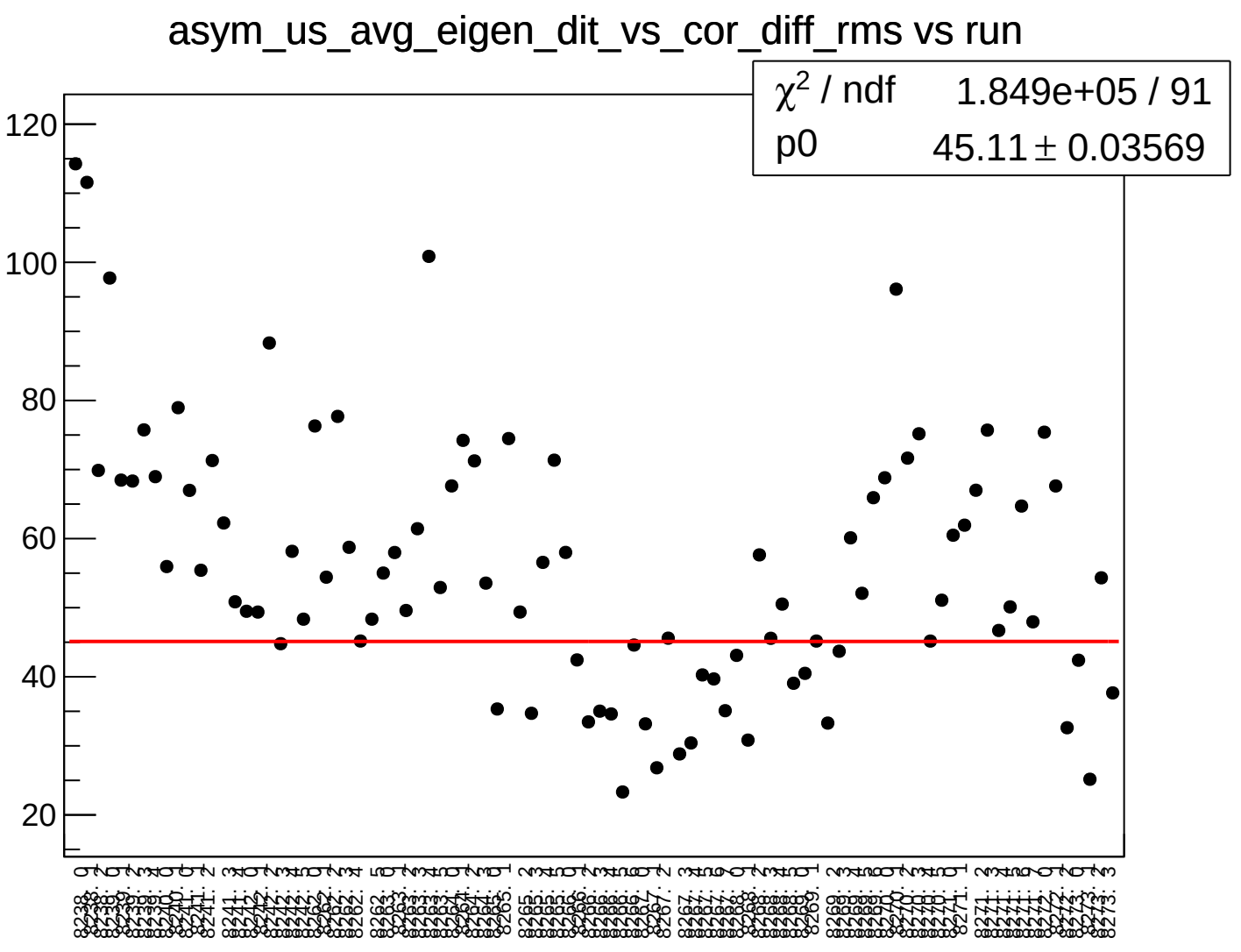

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.631e+04 / 91
p0 61.44 ± 0.04717
120
110
100
90
80
70
60
50
40

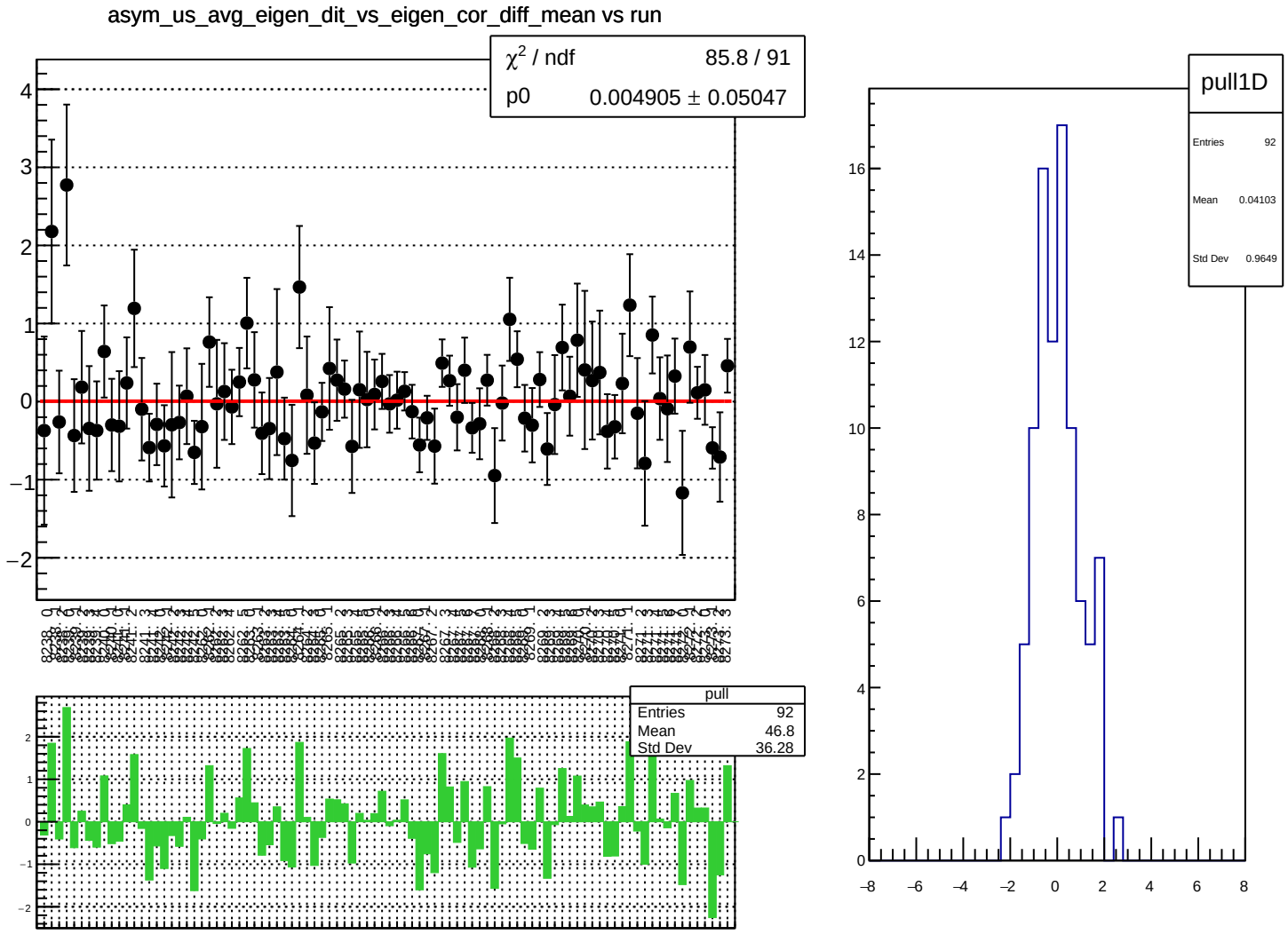

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.05 / 91
p0 1.168e−05 ± 3.61e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean 241
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

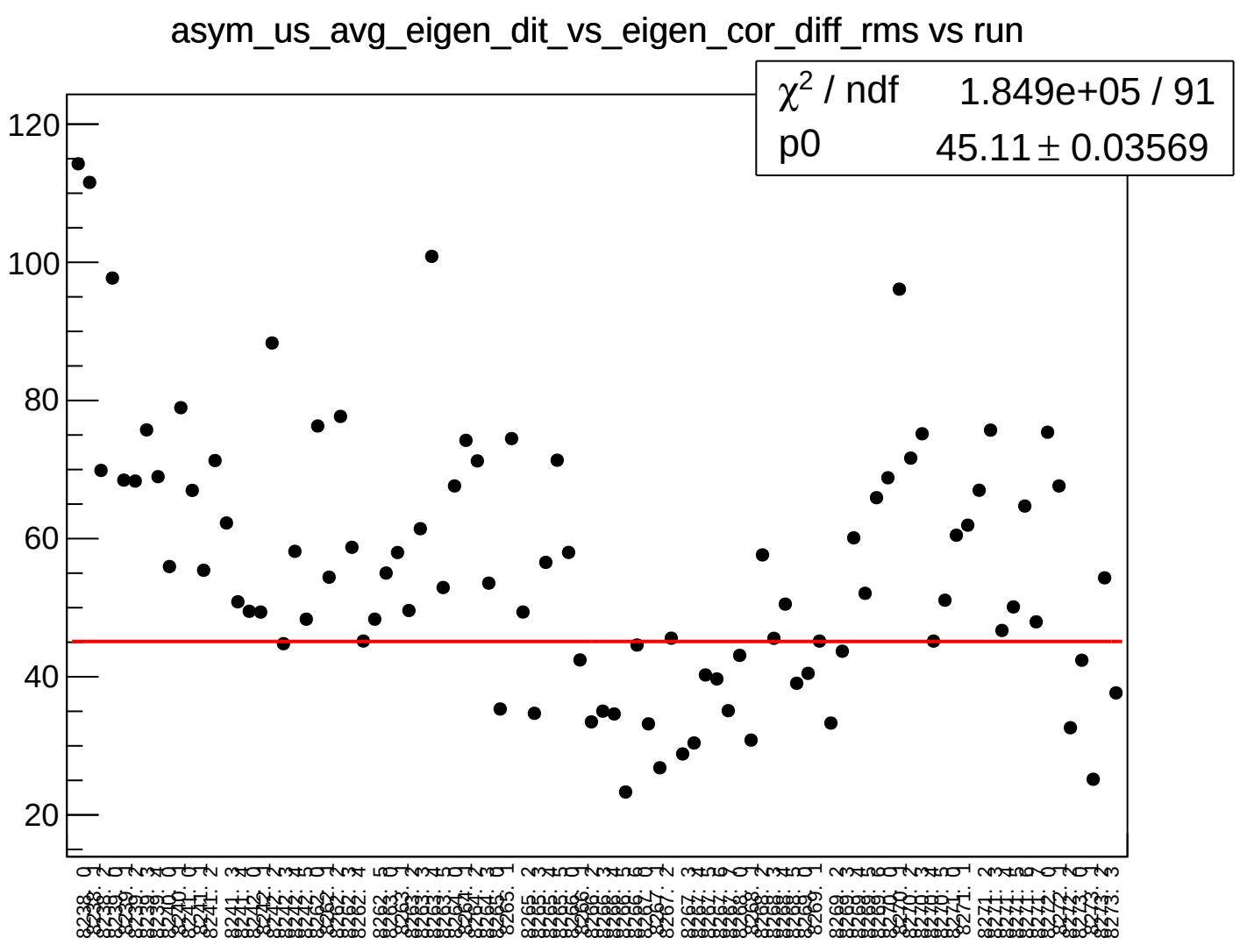

pull1D
Entries 92
Mean −0.01515
Std Dev 0.8725
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

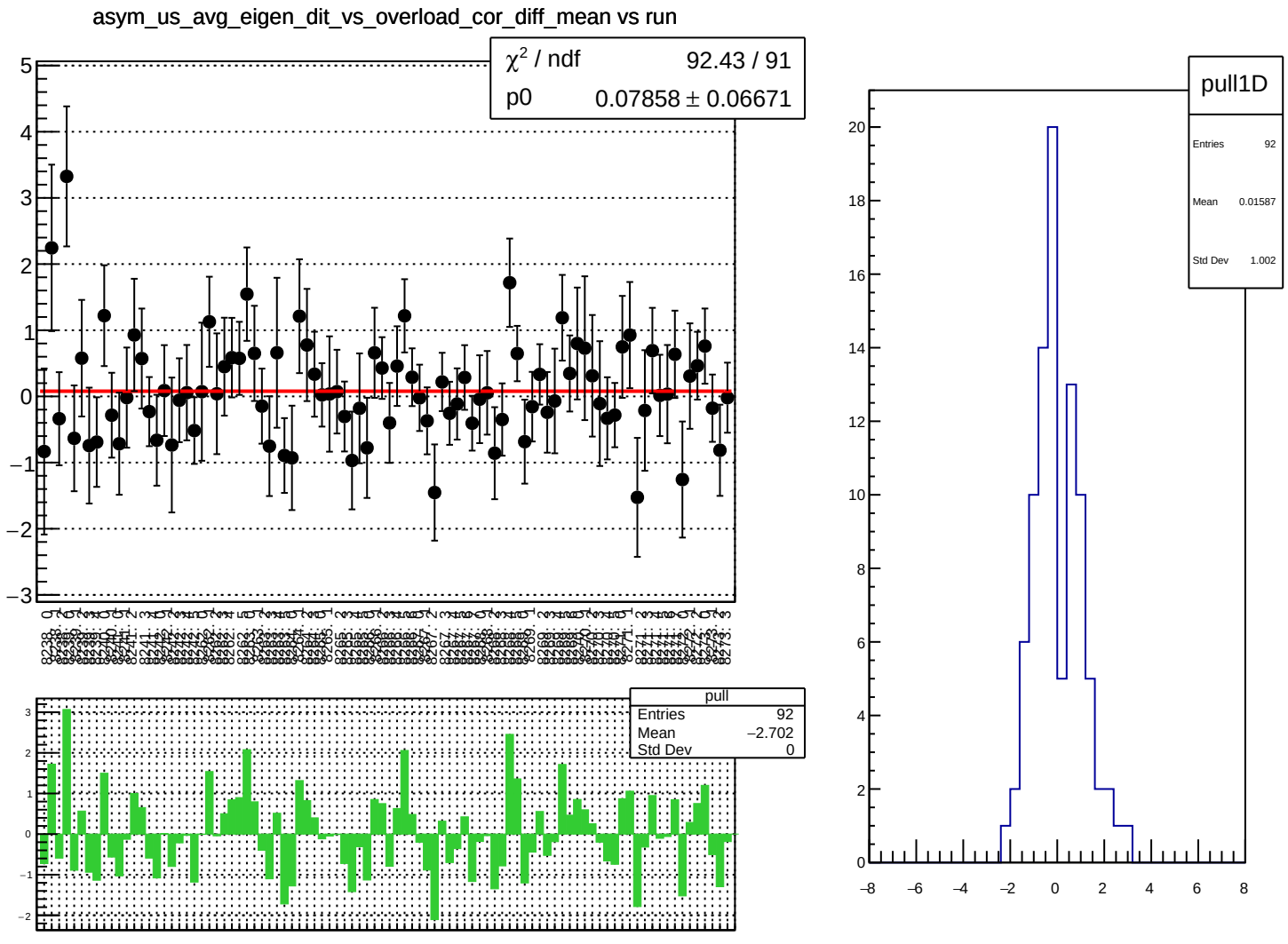

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.41e+05 / 91
p0 0.003271 ± 2.553e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

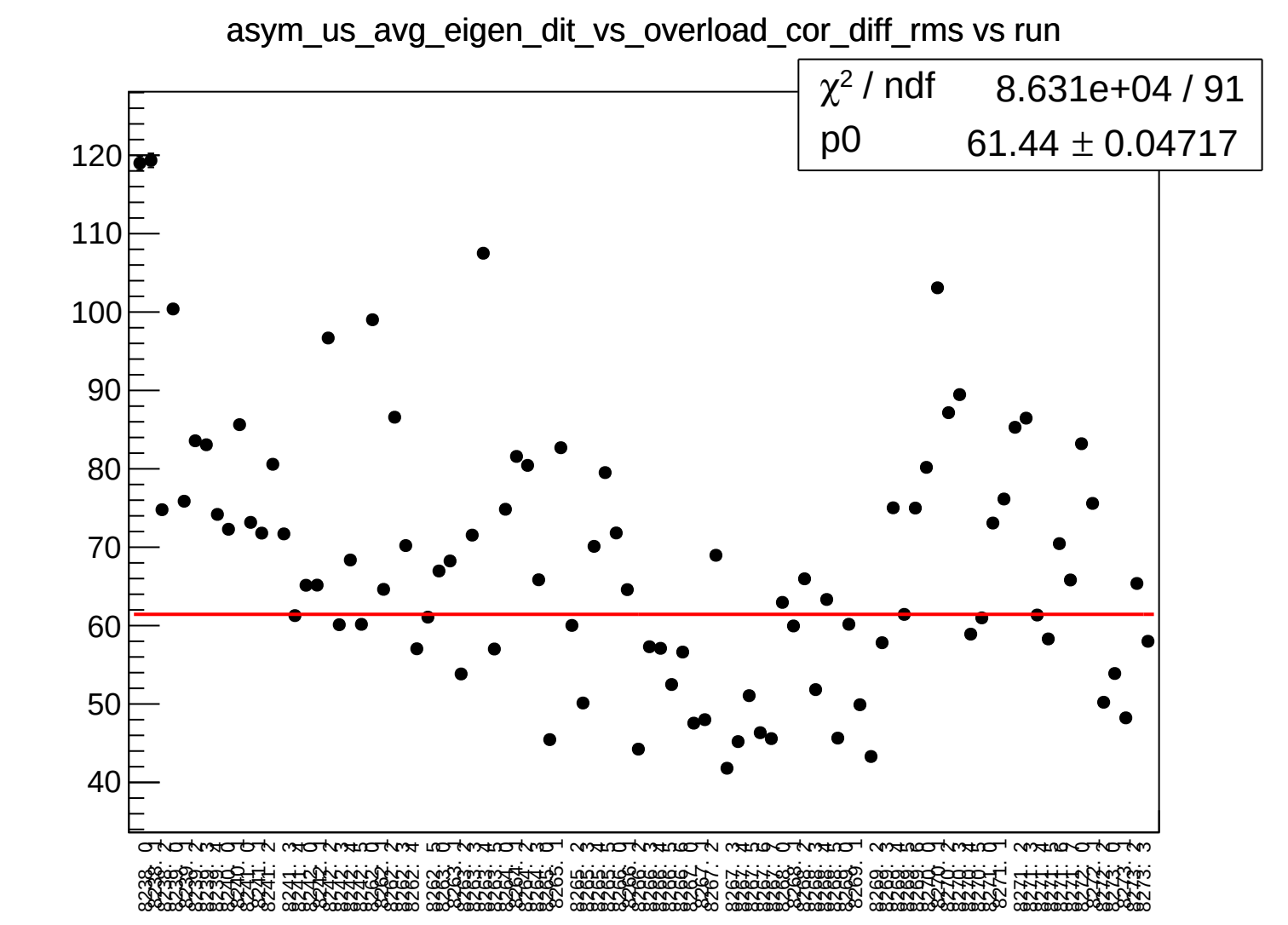

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.8 / 91
p0 0.004905 ± 0.05047
pull
Entries 92
Mean 46.8
Std Dev 36.28
pull1D
Entries 92
Mean 0.04103
Std Dev 0.9649

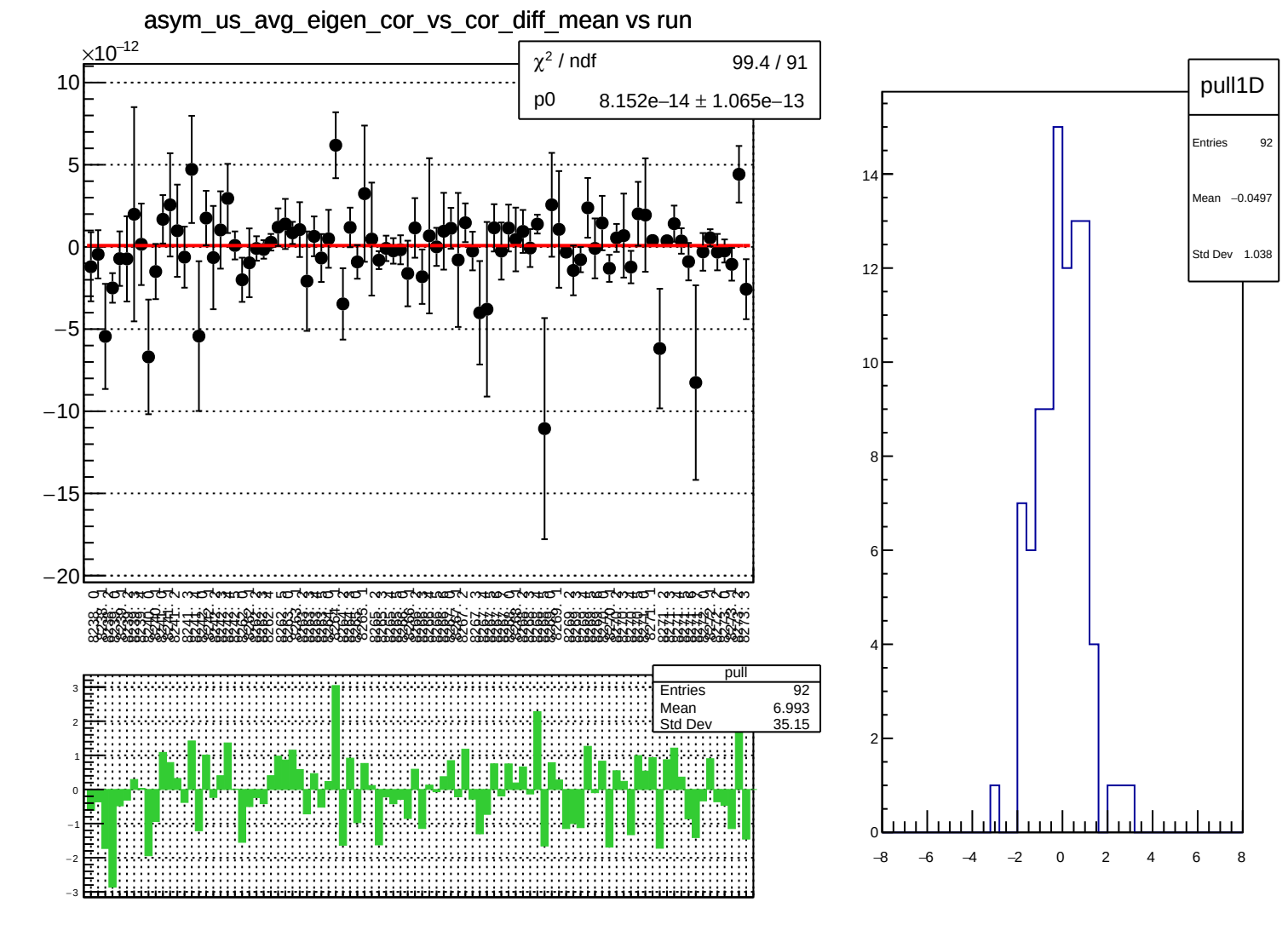

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.849e+05 / 91
p0 45.11 ± 0.03569
120
100
80
60
40
20

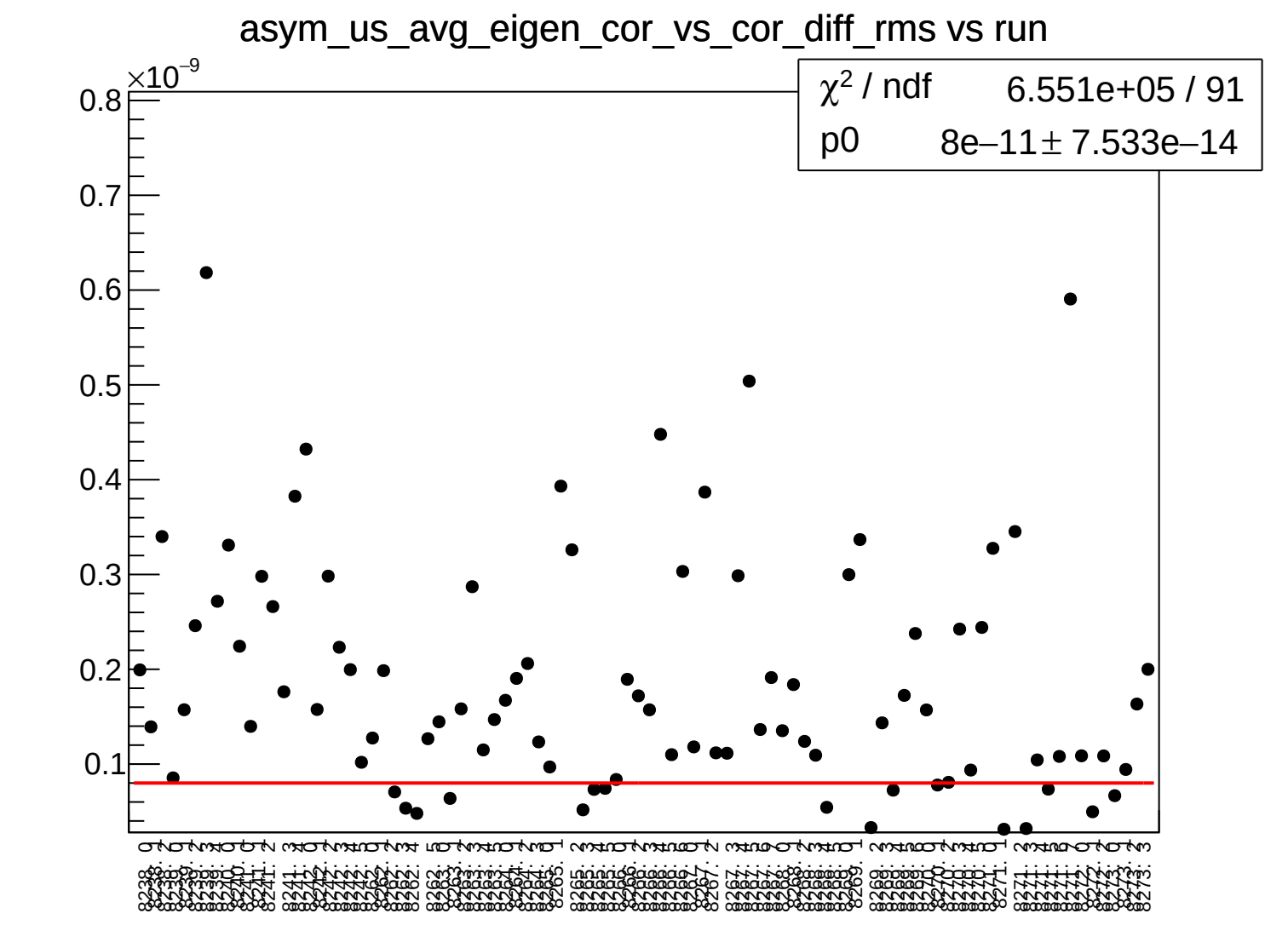

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.8 / 91
p0 0.004905 ± 0.05047
pull
Entries 92
Mean 46.8
Std Dev 36.28
pull1D
Entries 92
Mean 0.04103
Std Dev 0.9649

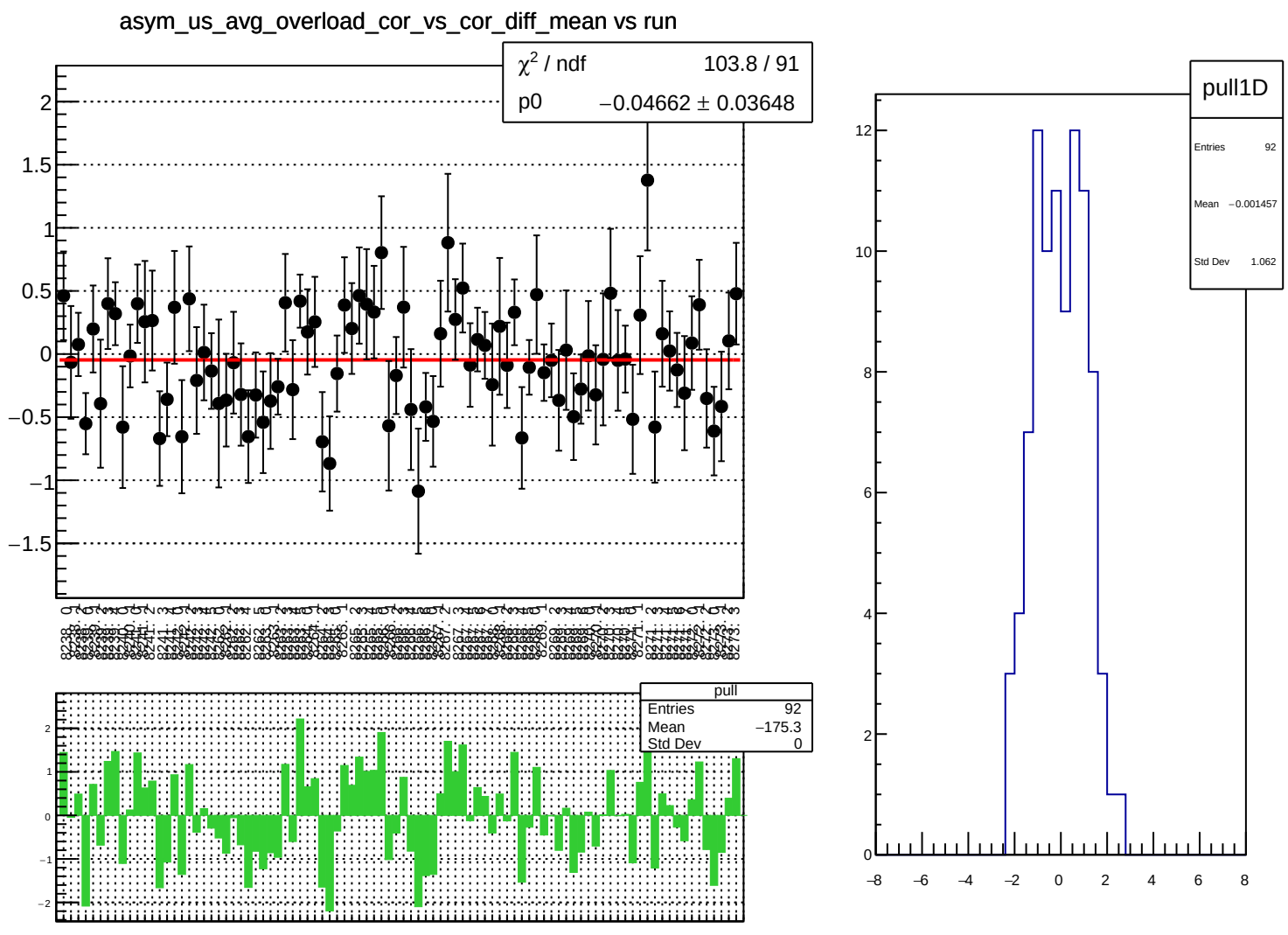

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 1.849e+05 / 91
p0 45.11 ± 0.03569
120
100
80
60
40
20

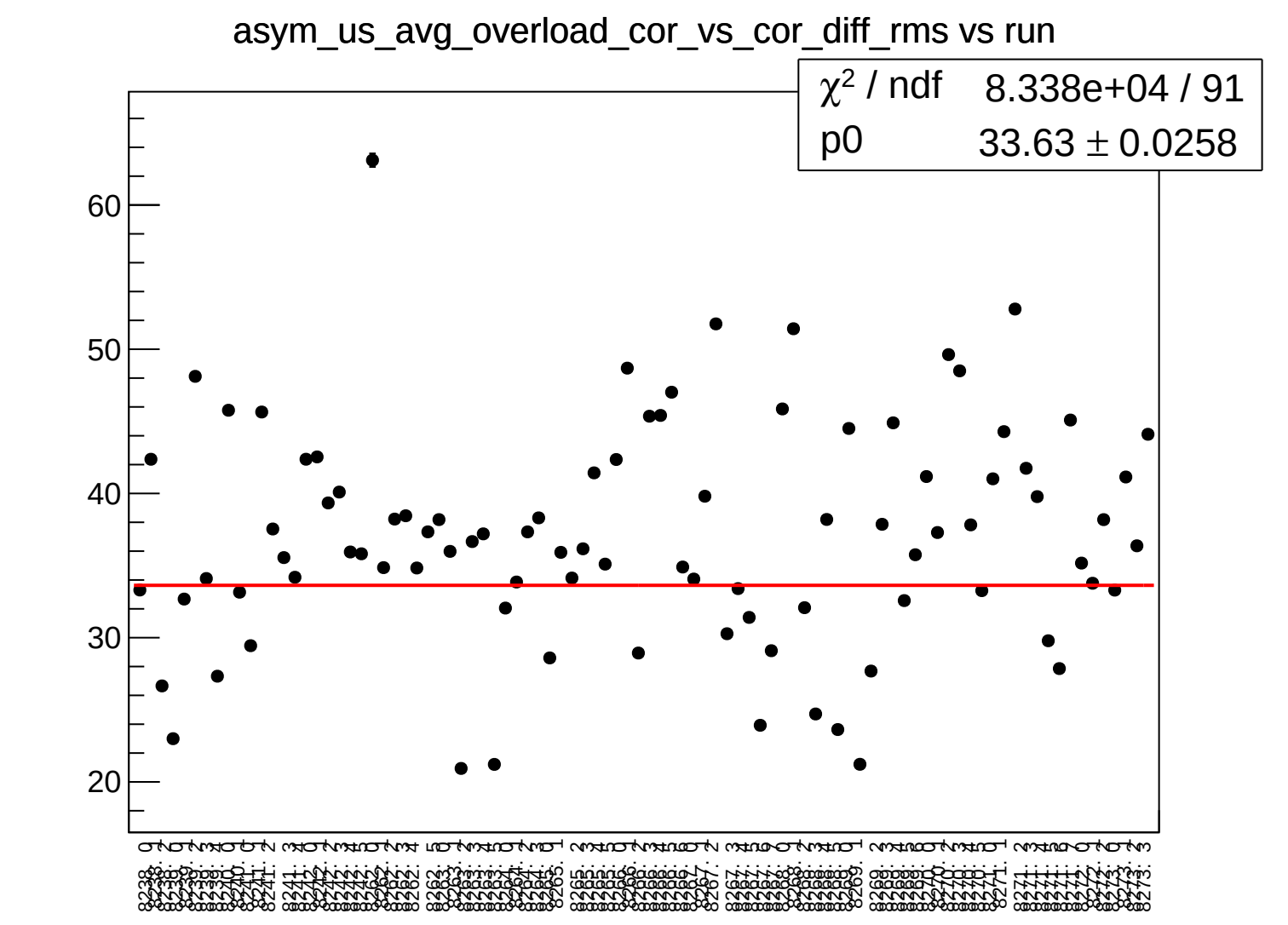

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 92.43 / 91
p0 0.07858 ± 0.06671
pull
Entries 92
Mean −2.702
Std Dev 0
pull1D
Entries 92
Mean 0.01587
Std Dev 1.002

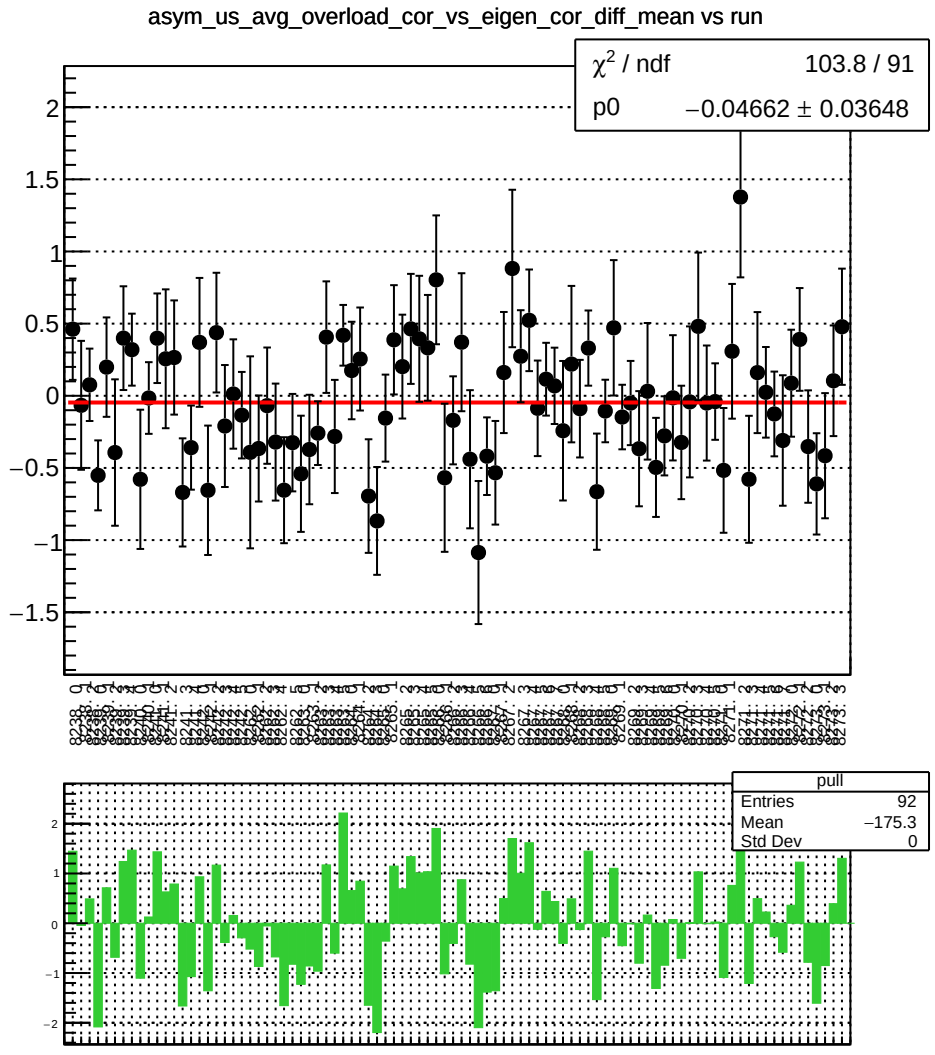

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.631e+04 / 91
p0 61.44 ± 0.04717
120
110
100
90
80
70
60
50
40

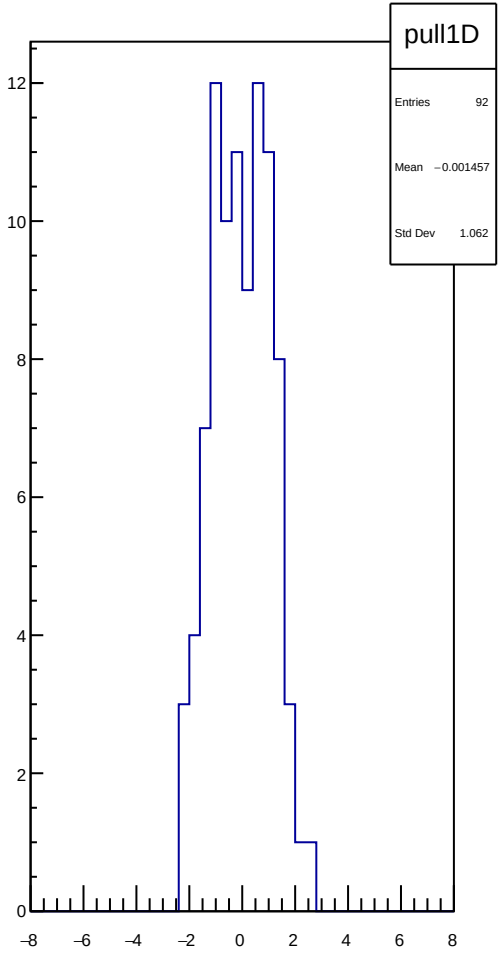

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.4 / 91
p0 8.152e−14 ± 1.065e−13
pull
Entries 92
Mean 6.993
Std Dev 35.15
pull1D
Entries 92
Mean −0.0497
Std Dev 1.038

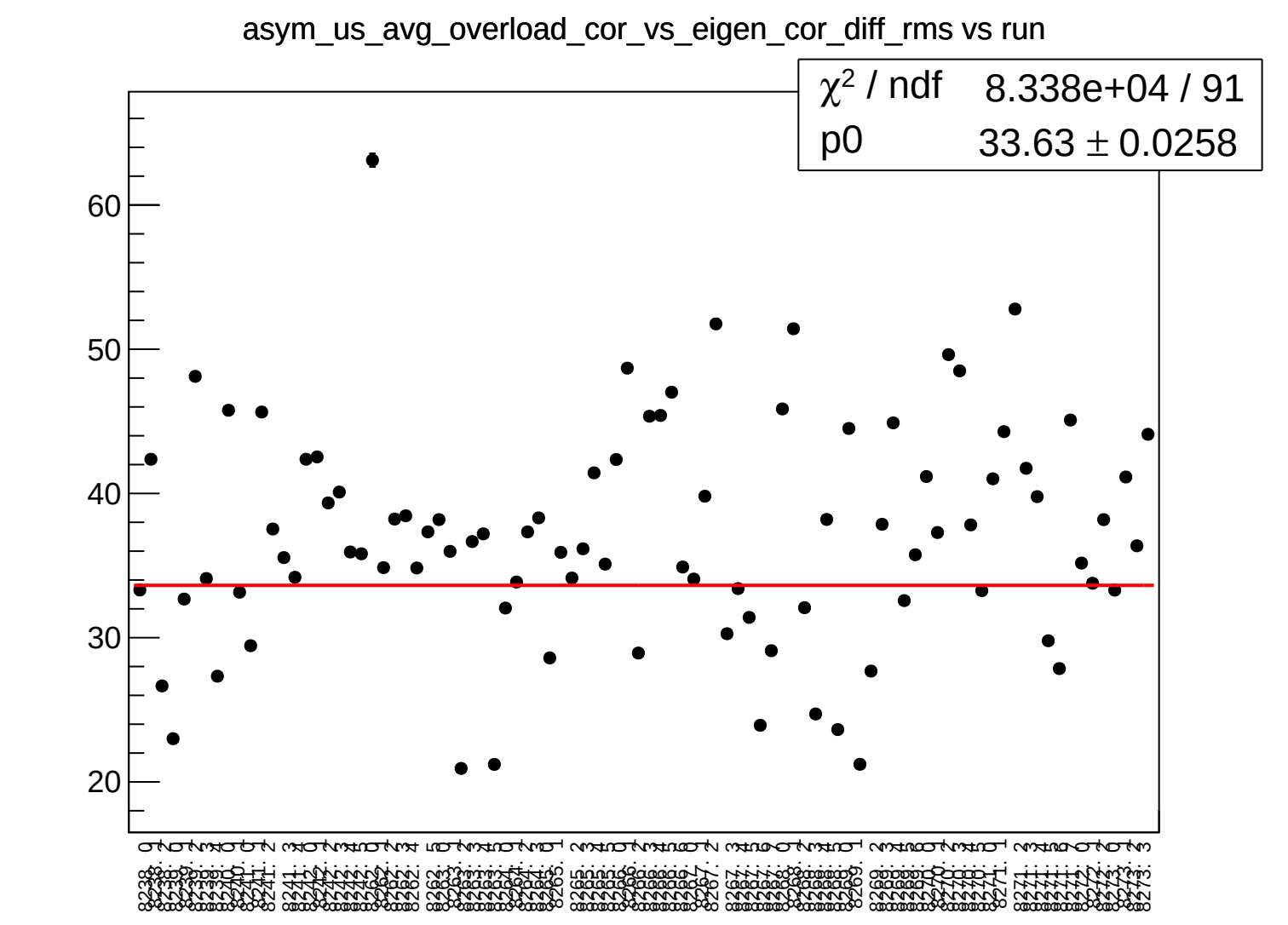

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.551e+05 / 91
p0 8e−11 ± 7.533e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

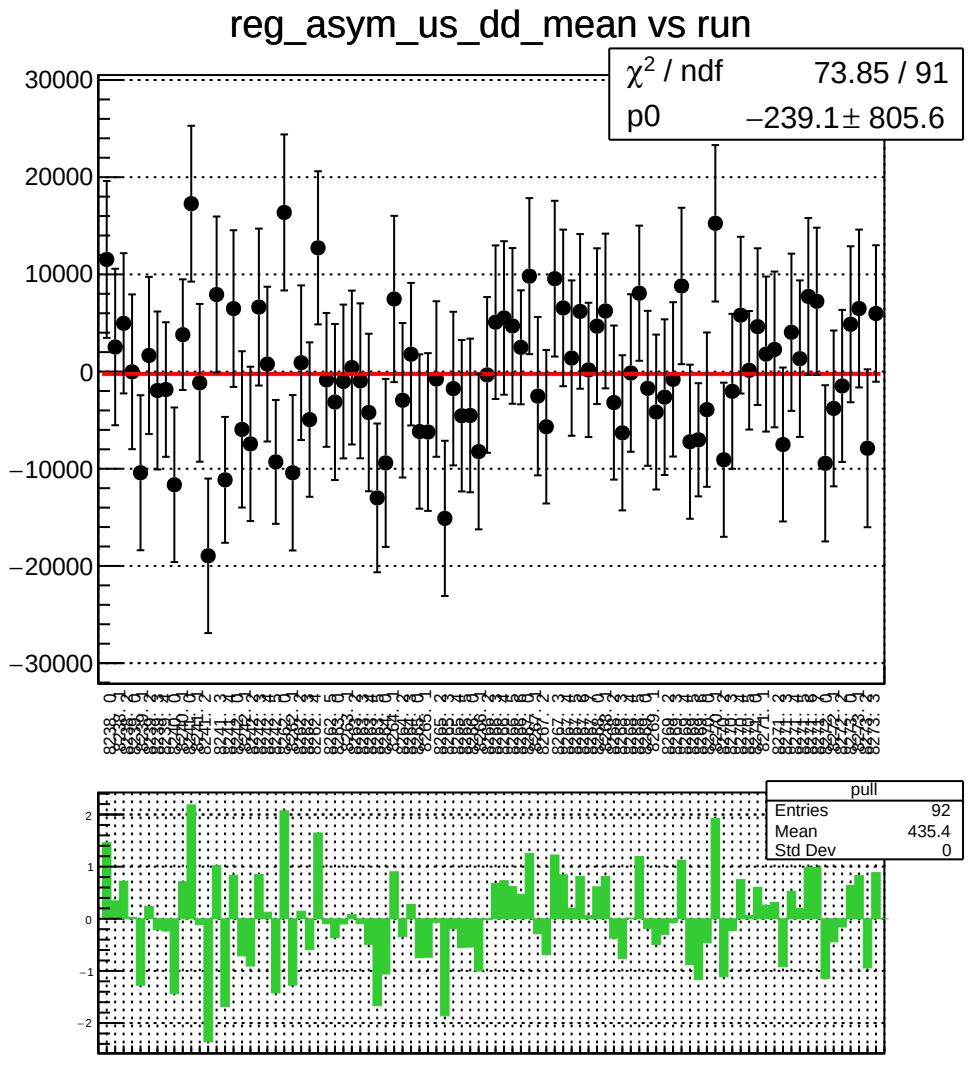

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 103.8 / 91
p0 −0.04662 ± 0.03648
pull
Entries 92
Mean −175.3
Std Dev 0
pull1D
Entries 92
Mean −0.001457
Std Dev 1.062

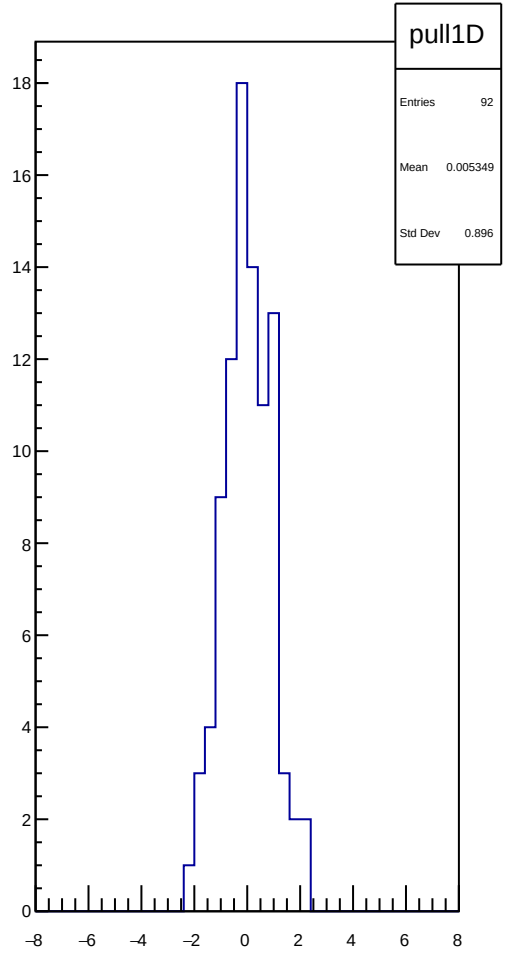

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 8.338e+04 / 91
p0 33.63 ± 0.0258
60
50
40
30
20

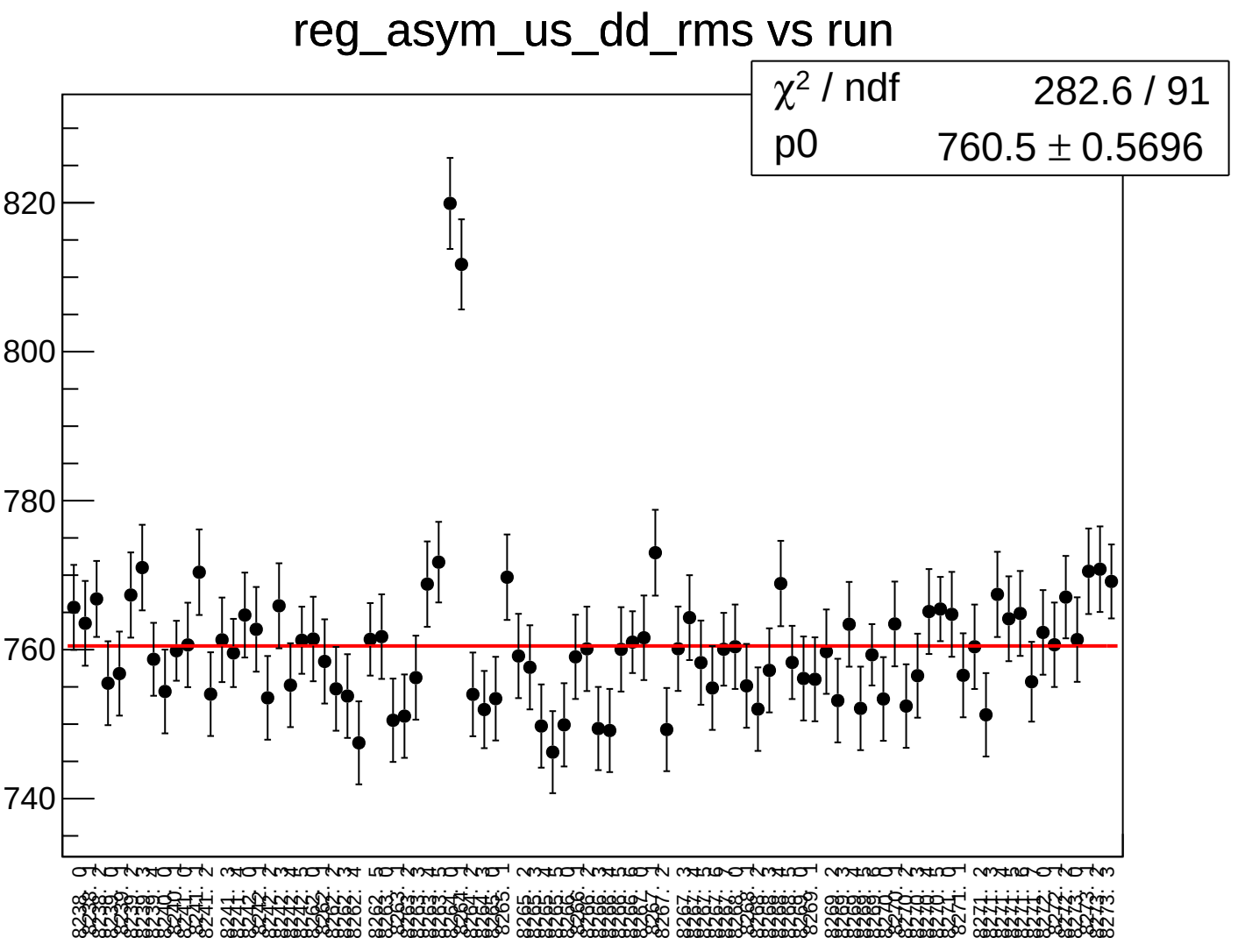

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.8 / 91
p0 −0.04662 ± 0.03648
pull
Entries 92
Mean −175.3
Std Dev 0

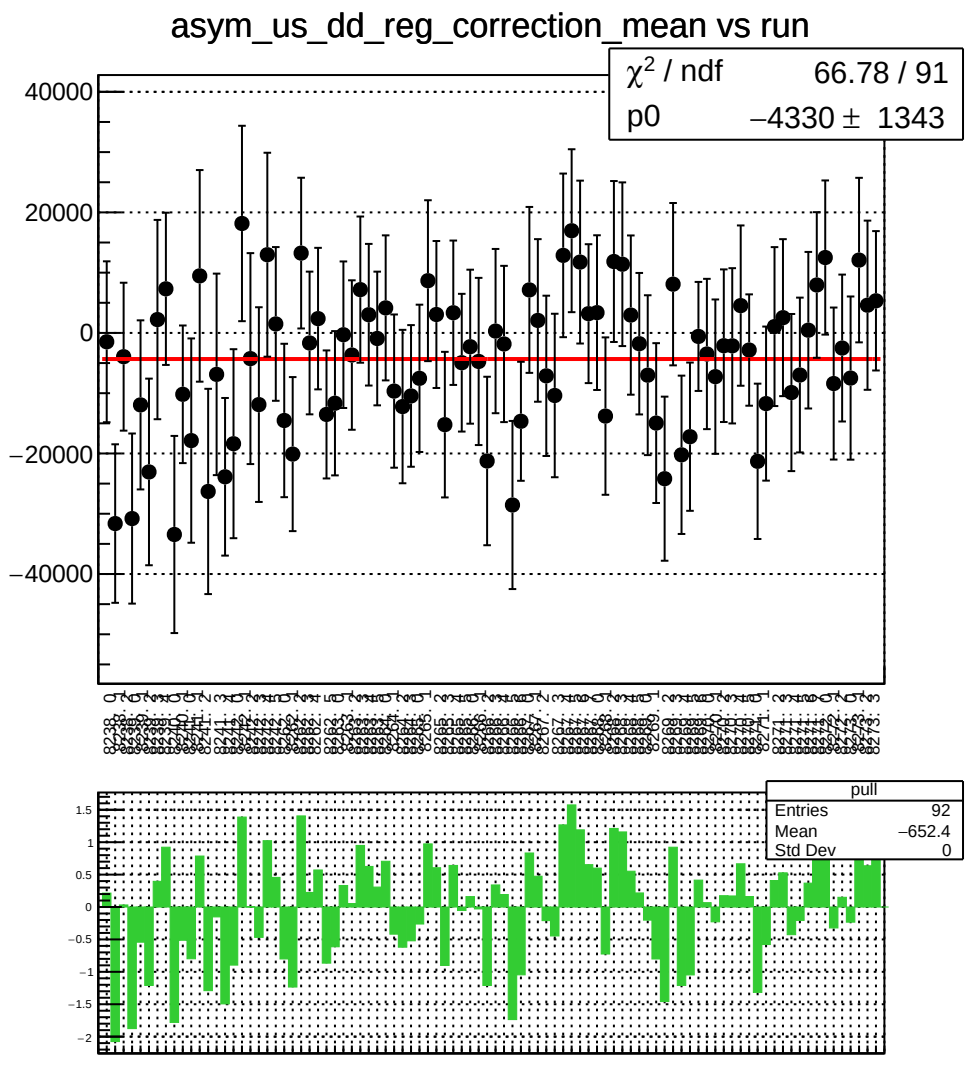

pull1D
Entries 92
Mean −0.001457
Std Dev 1.062

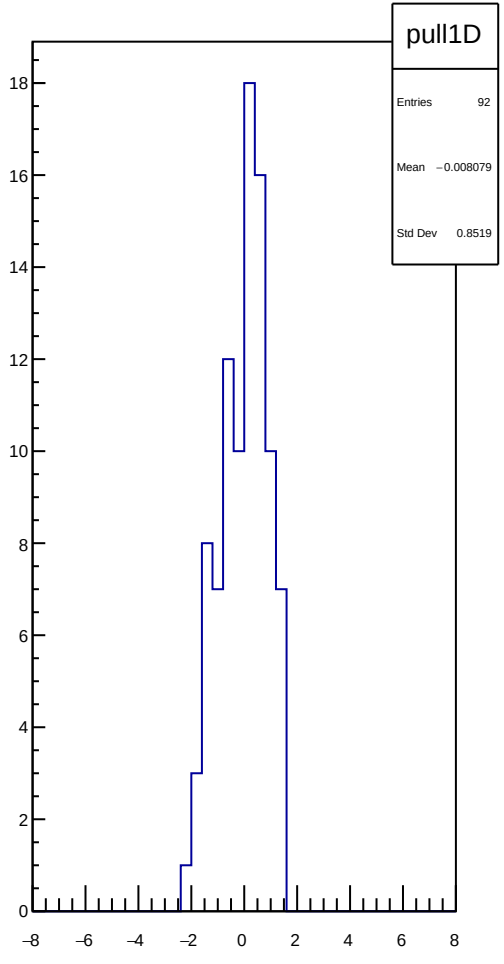

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.338e+04 / 91
p0 33.63 ± 0.0258
60
50
40
30
20

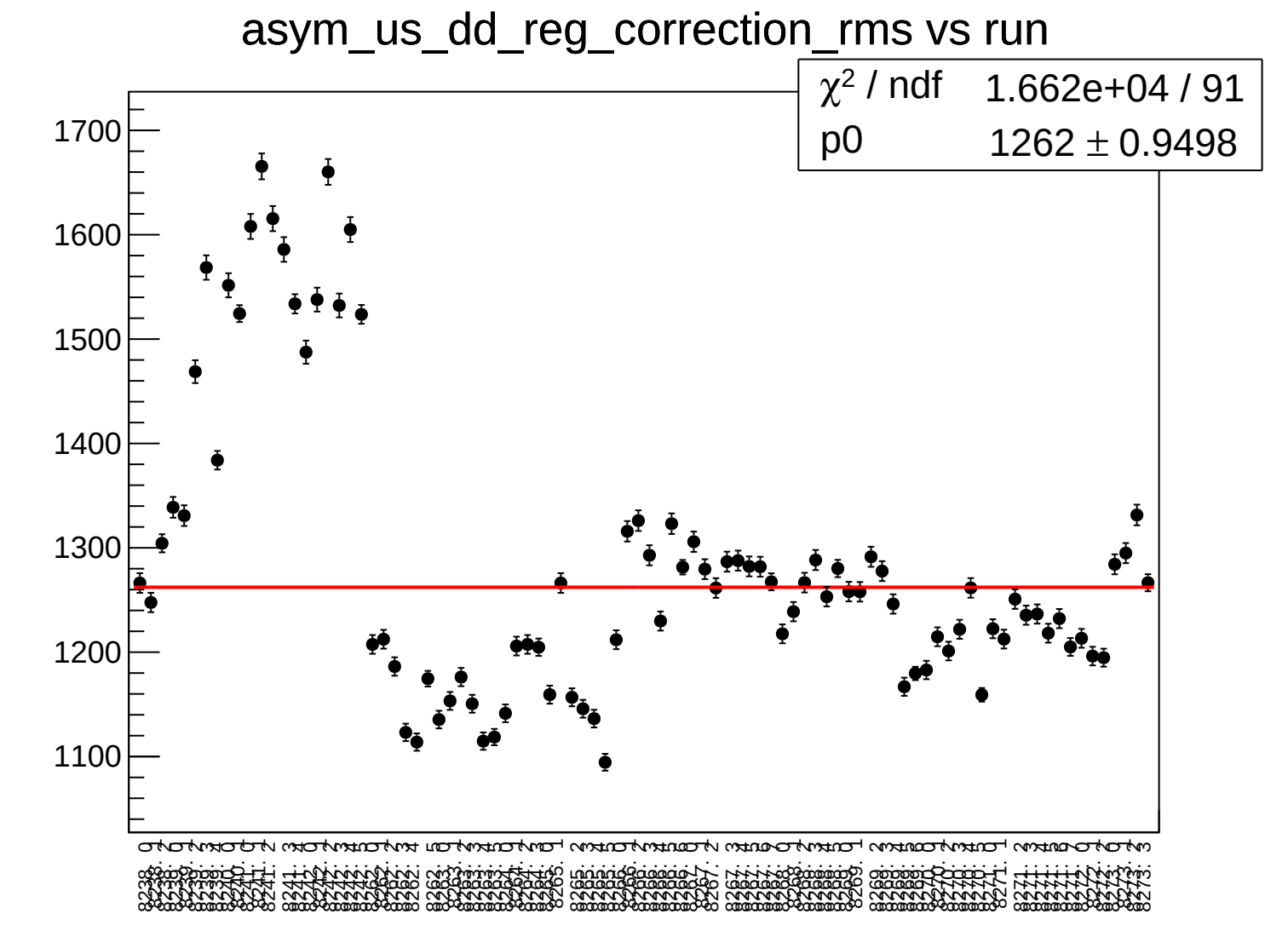

reg_asym_us_dd_mean vs run
χ² / ndf 73.85 / 91
p0 −239.1± 805.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 435.4
Std Dev 0
2
1
0
−1
−2

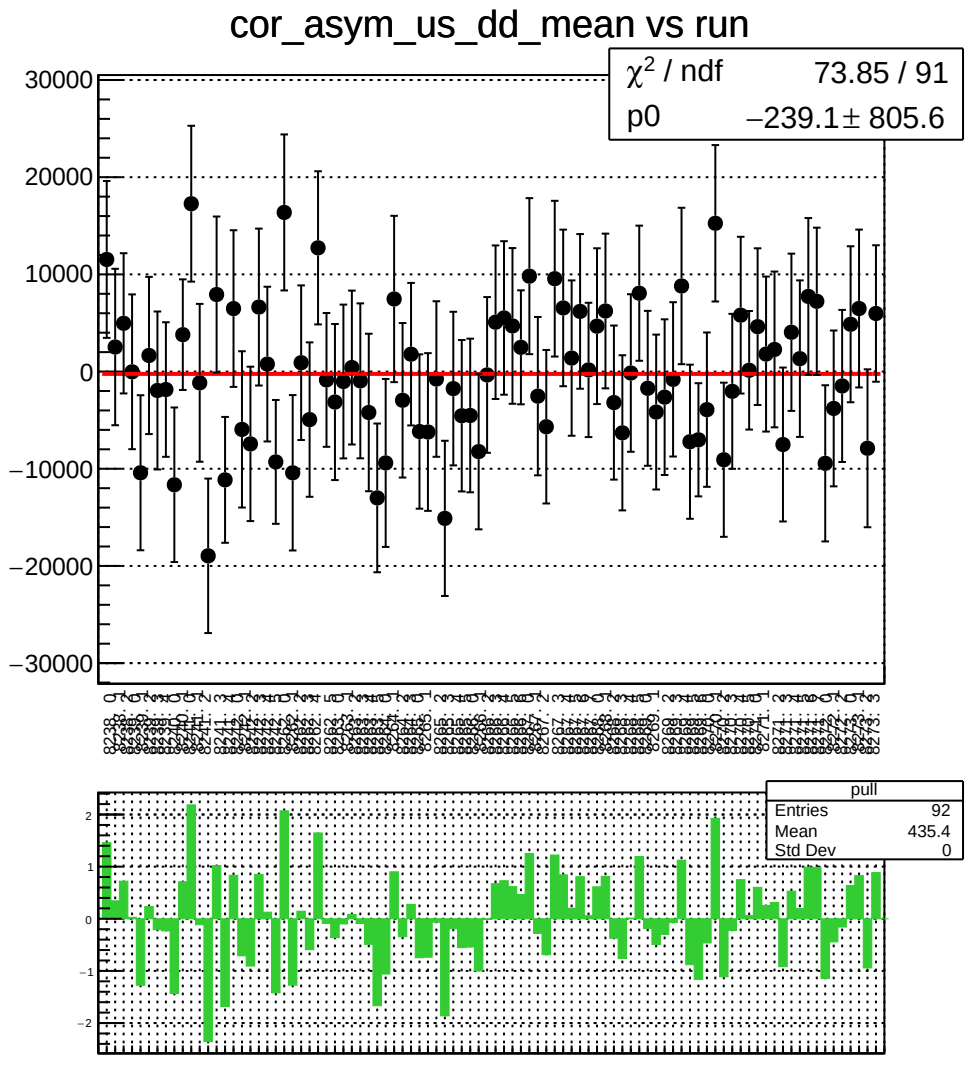

pull1D
Entries 92
Mean 0.005349
Std Dev 0.896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

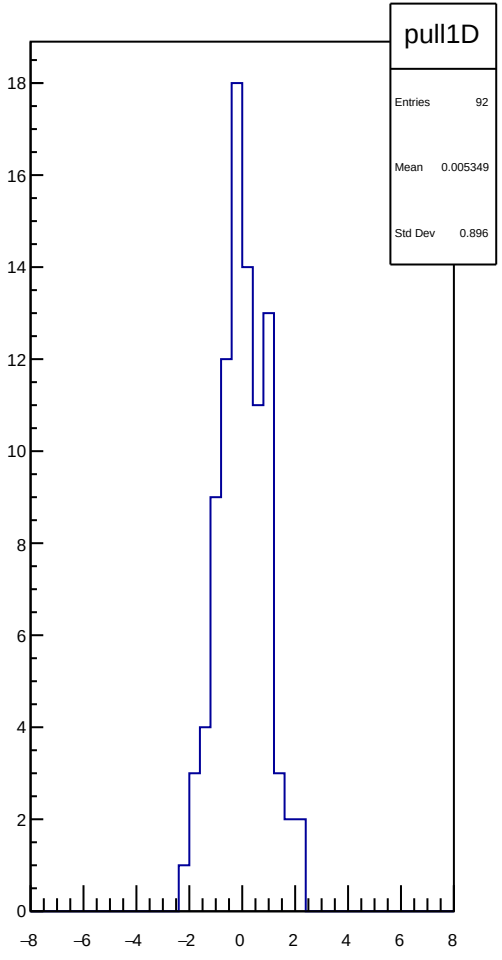

reg_asym_us_dd_rms vs run
χ² / ndf 282.6 / 91
p0 760.5 ± 0.5696
820
800
780
760
740

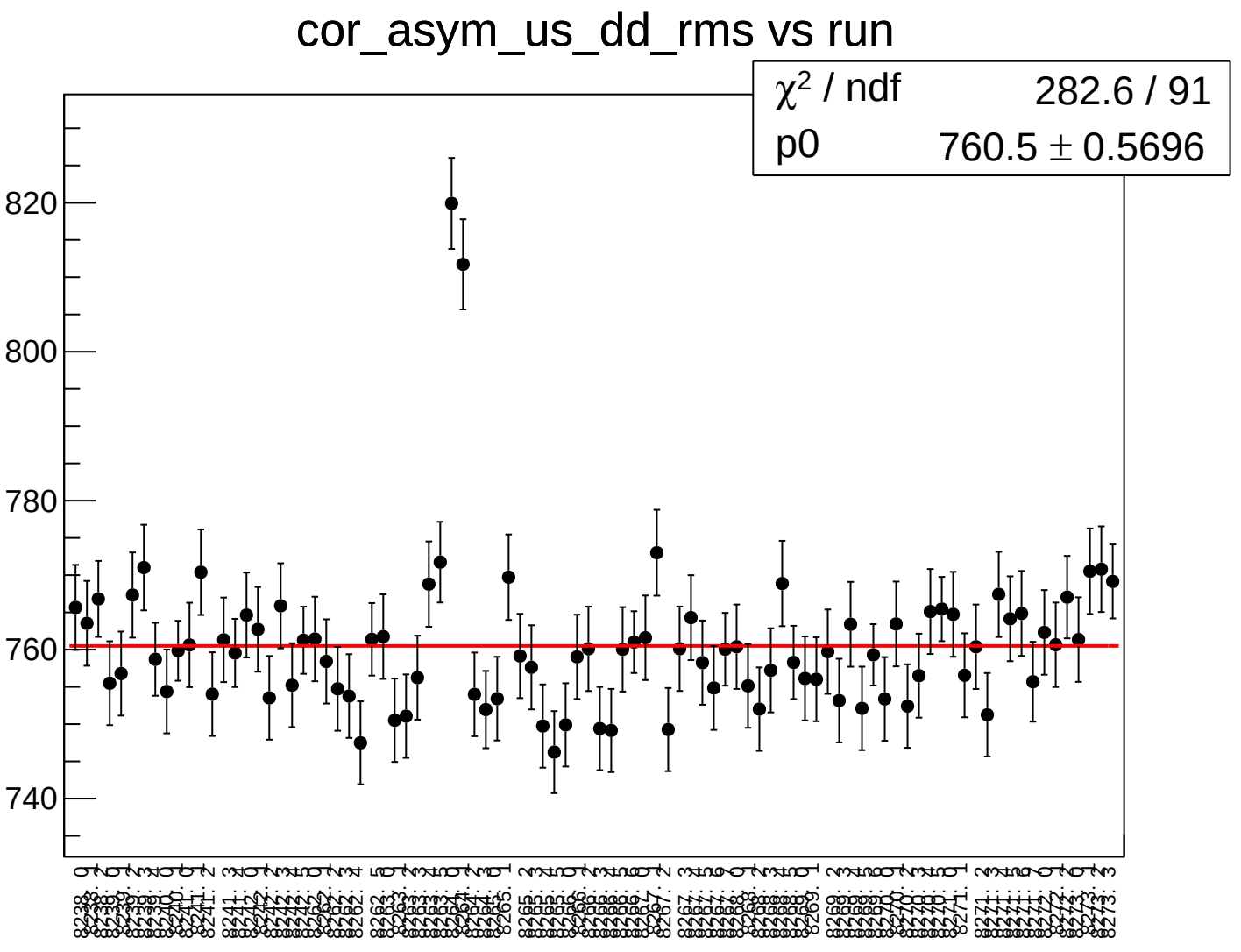

asym_us_dd_reg_correction_mean vs run
χ² / ndf 66.78 / 91
p0 −4330 ± 1343
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −652.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

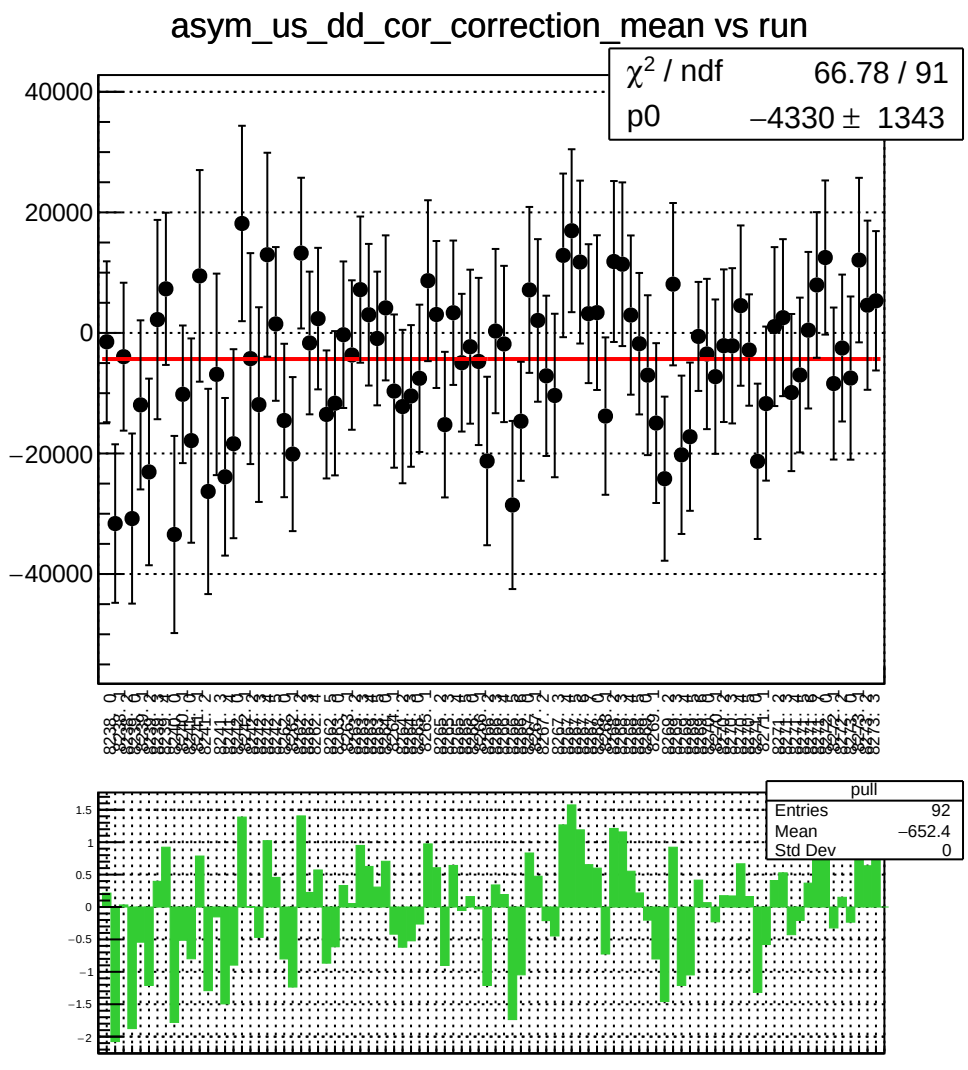

pull1D
Entries 92
Mean −0.008079
Std Dev 0.8519
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

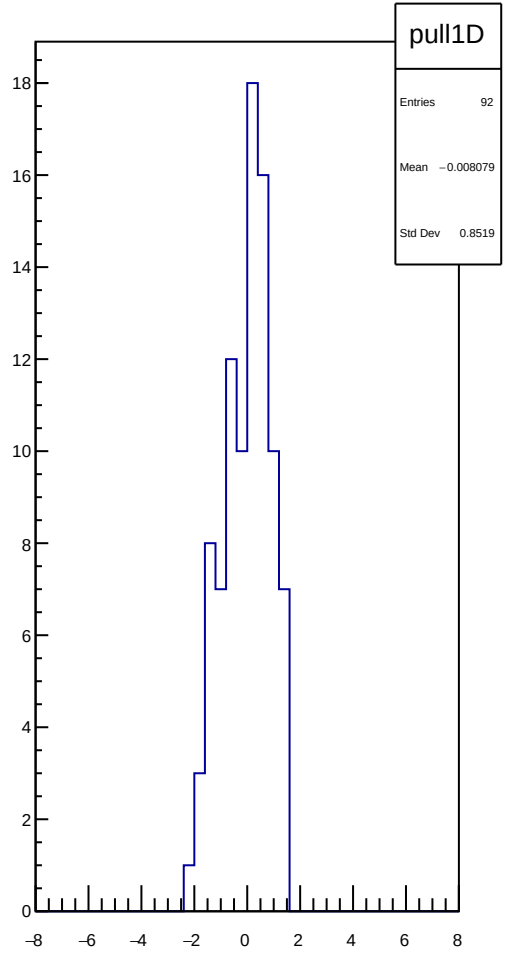

asym_us_dd_reg_correction_rms vs run
χ² / ndf 1.662e+04 / 91
p0 1262 ± 0.9498
1700
1600
1500
1400
1300
1200
1100

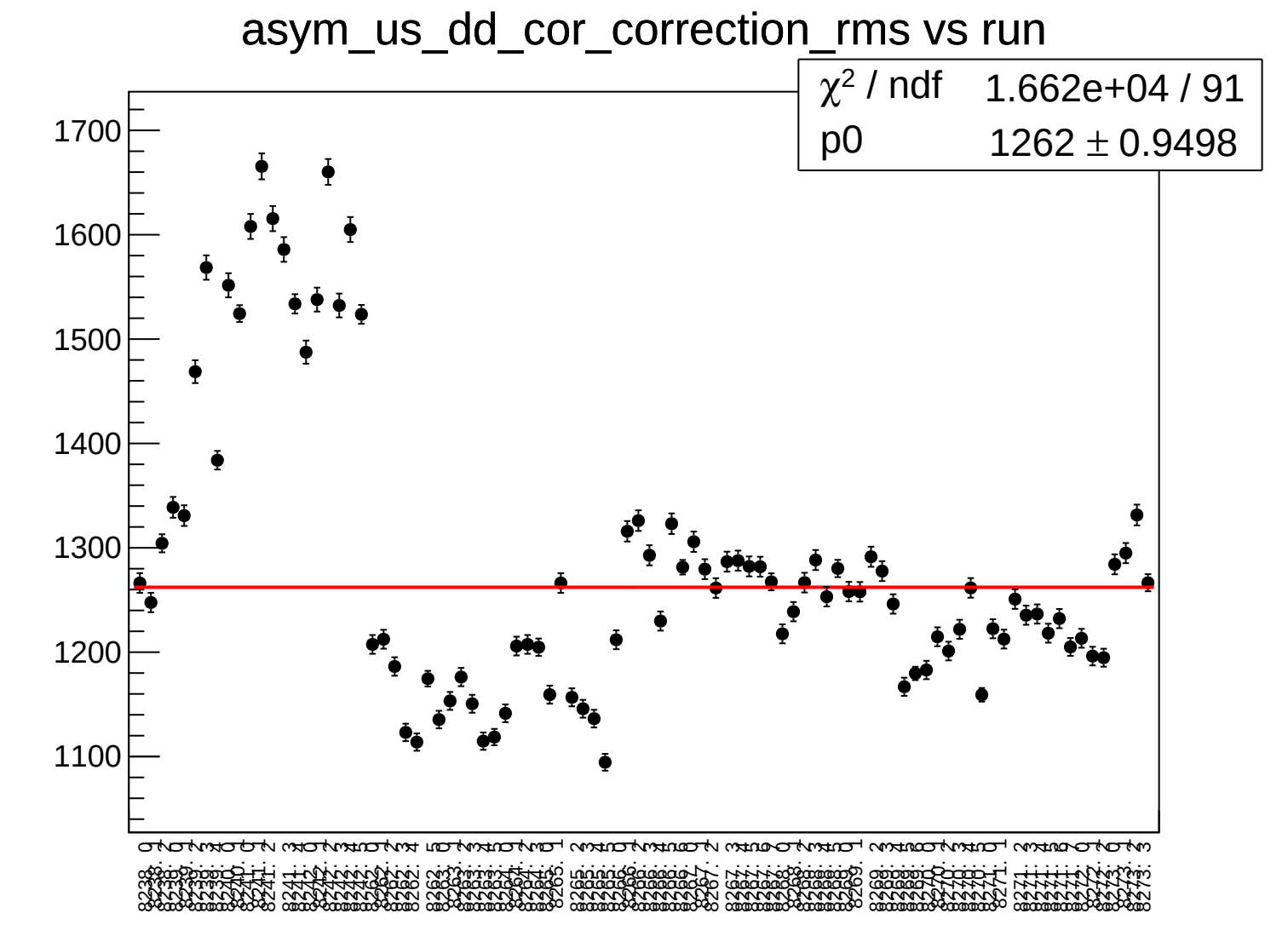

cor_asym_us_dd_mean vs run
χ² / ndf 73.85 / 91
p0 −239.1± 805.6
pull
Entries 92
Mean 435.4
Std Dev 0

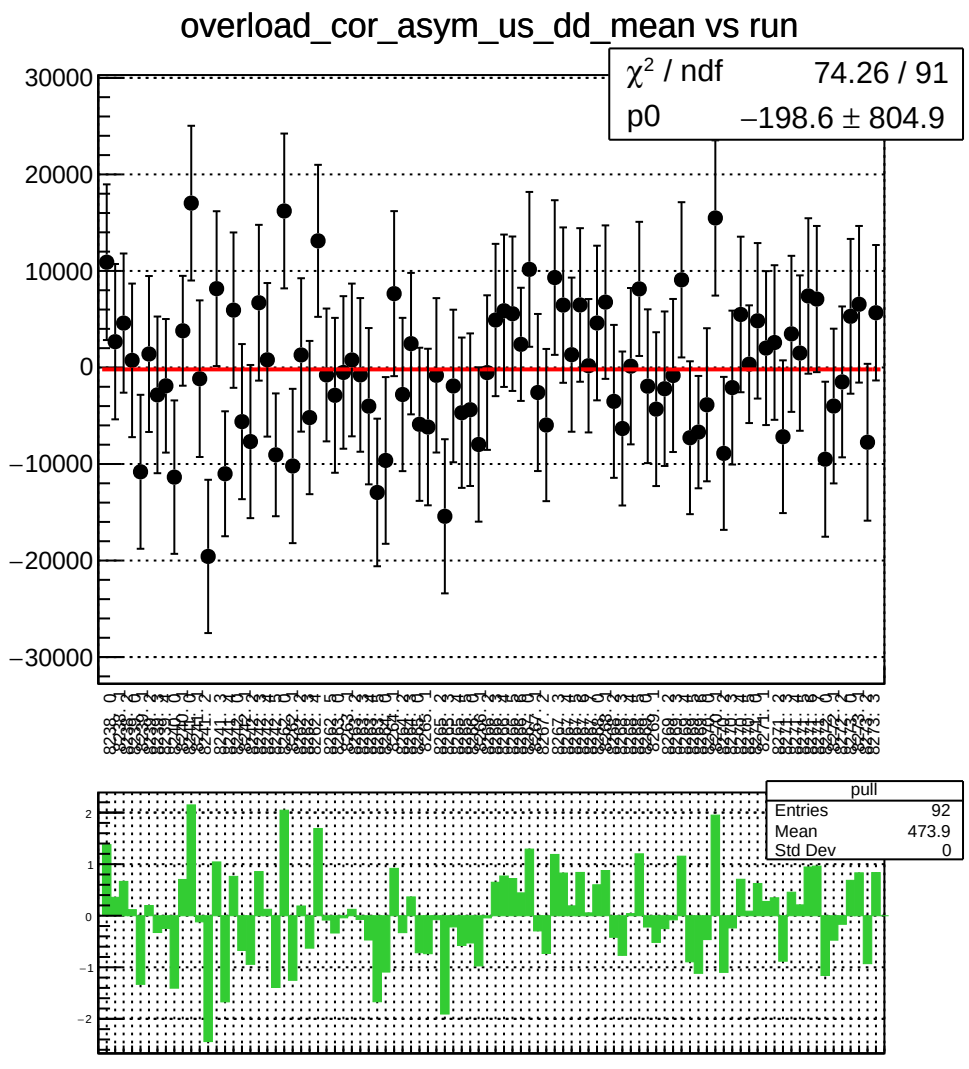

pull1D
Entries 92
Mean 0.005349
Std Dev 0.896

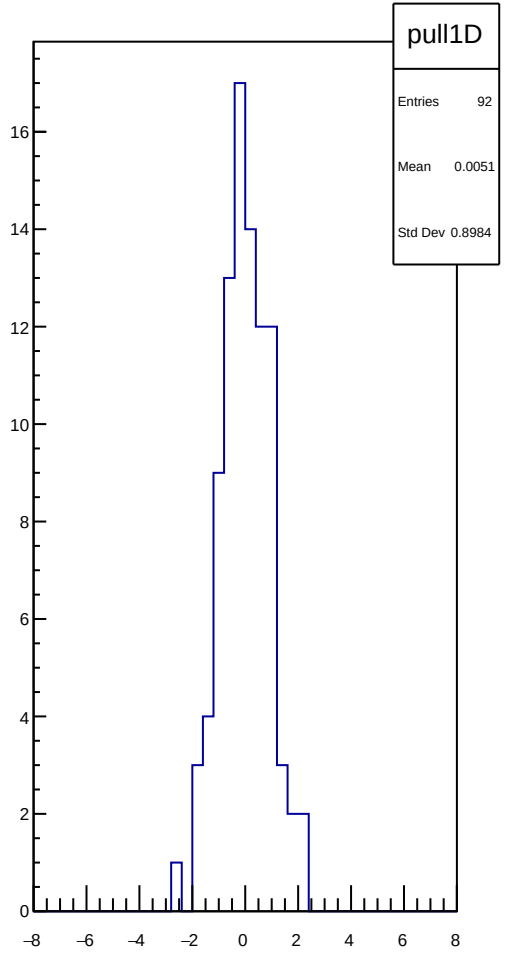

cor_asym_us_dd_rms vs run
χ² / ndf 282.6 / 91
p0 760.5 ± 0.5696
820
800
780
760
740

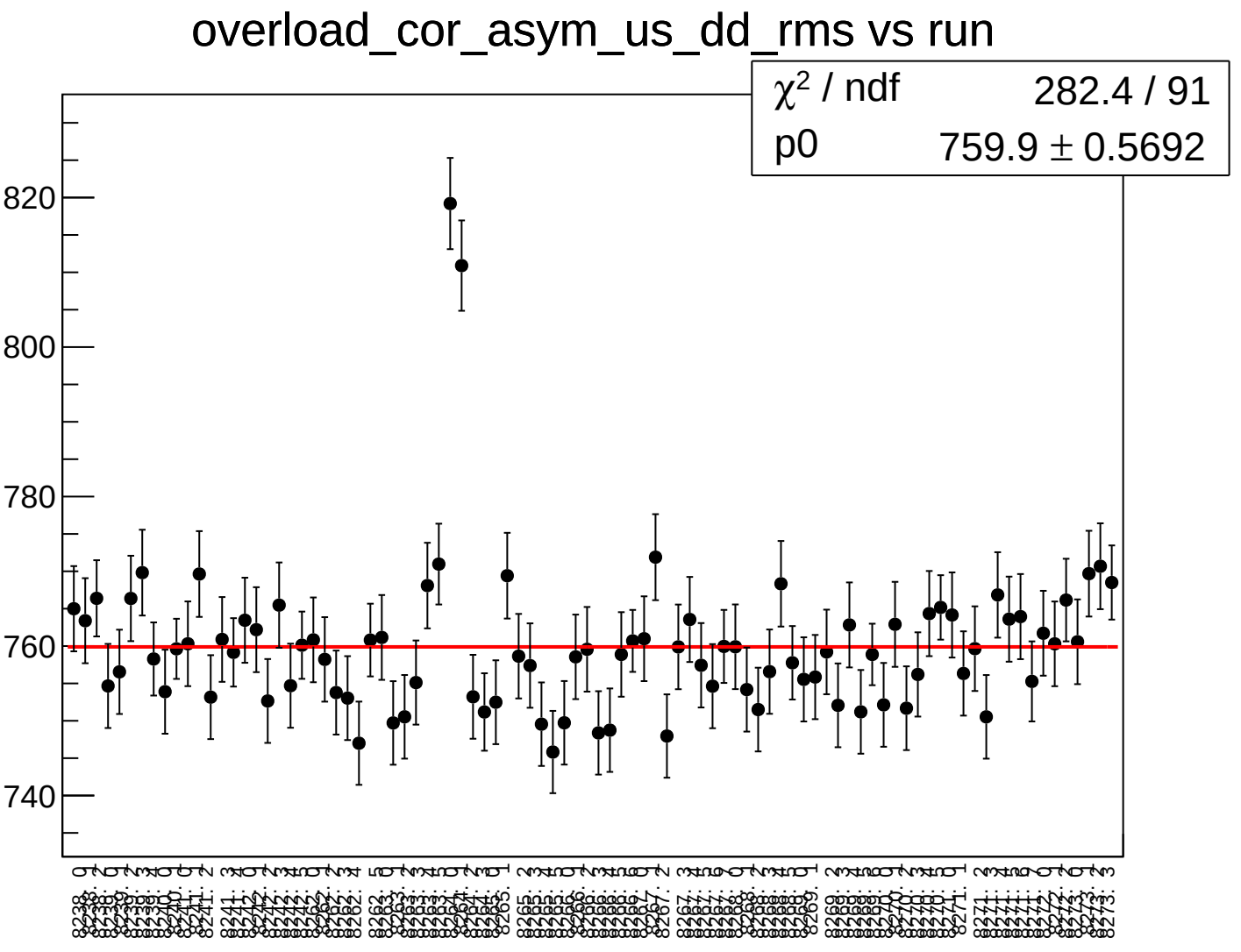

asym_us_dd_cor_correction_mean vs run
χ² / ndf 66.78 / 91
p0 −4330 ± 1343
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −652.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

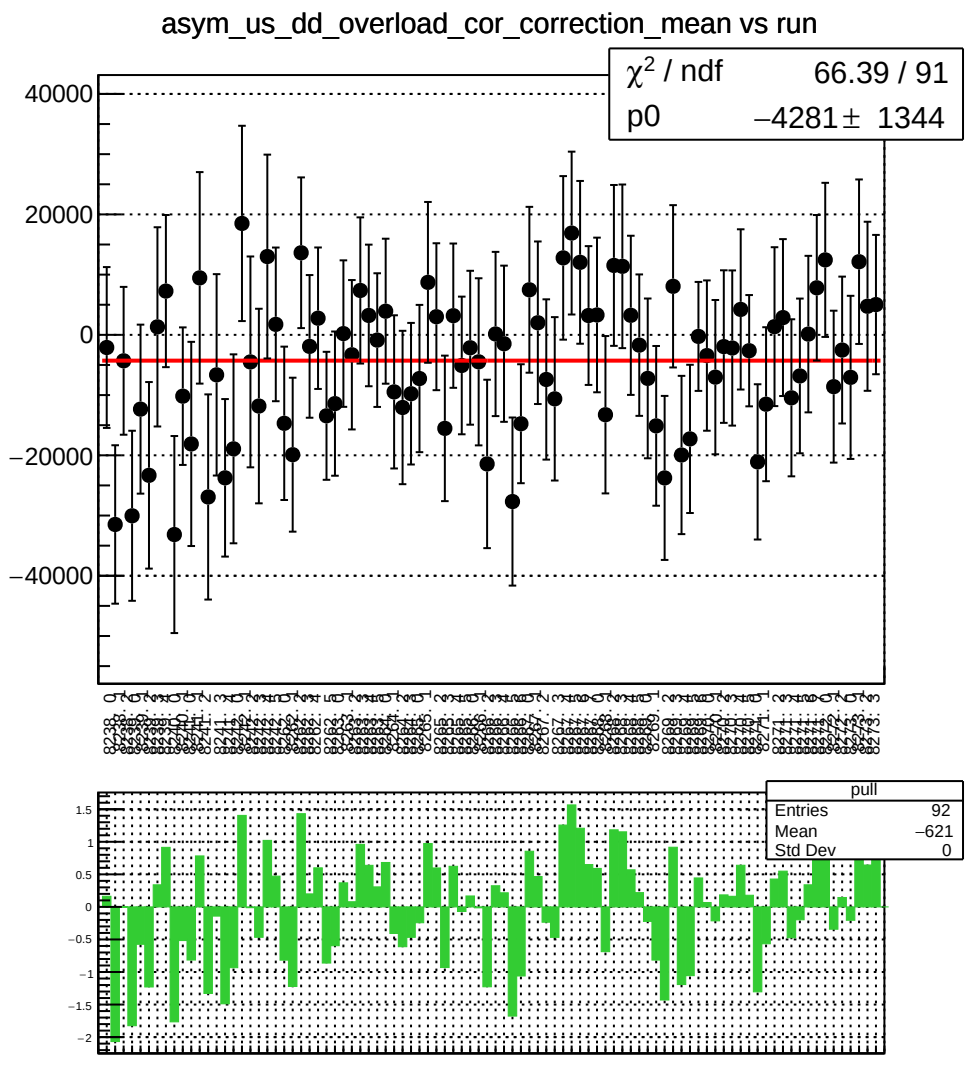

pull1D
Entries 92
Mean −0.008079
Std Dev 0.8519
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

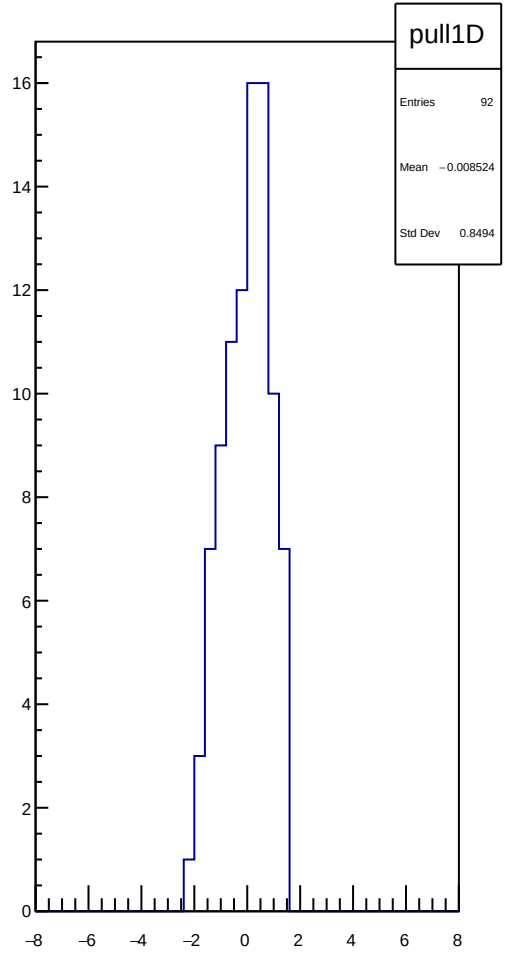

asym_us_dd_cor_correction_rms vs run
χ² / ndf 1.662e+04 / 91
p0 1262 ± 0.9498
1700
1600
1500
1400
1300
1200
1100

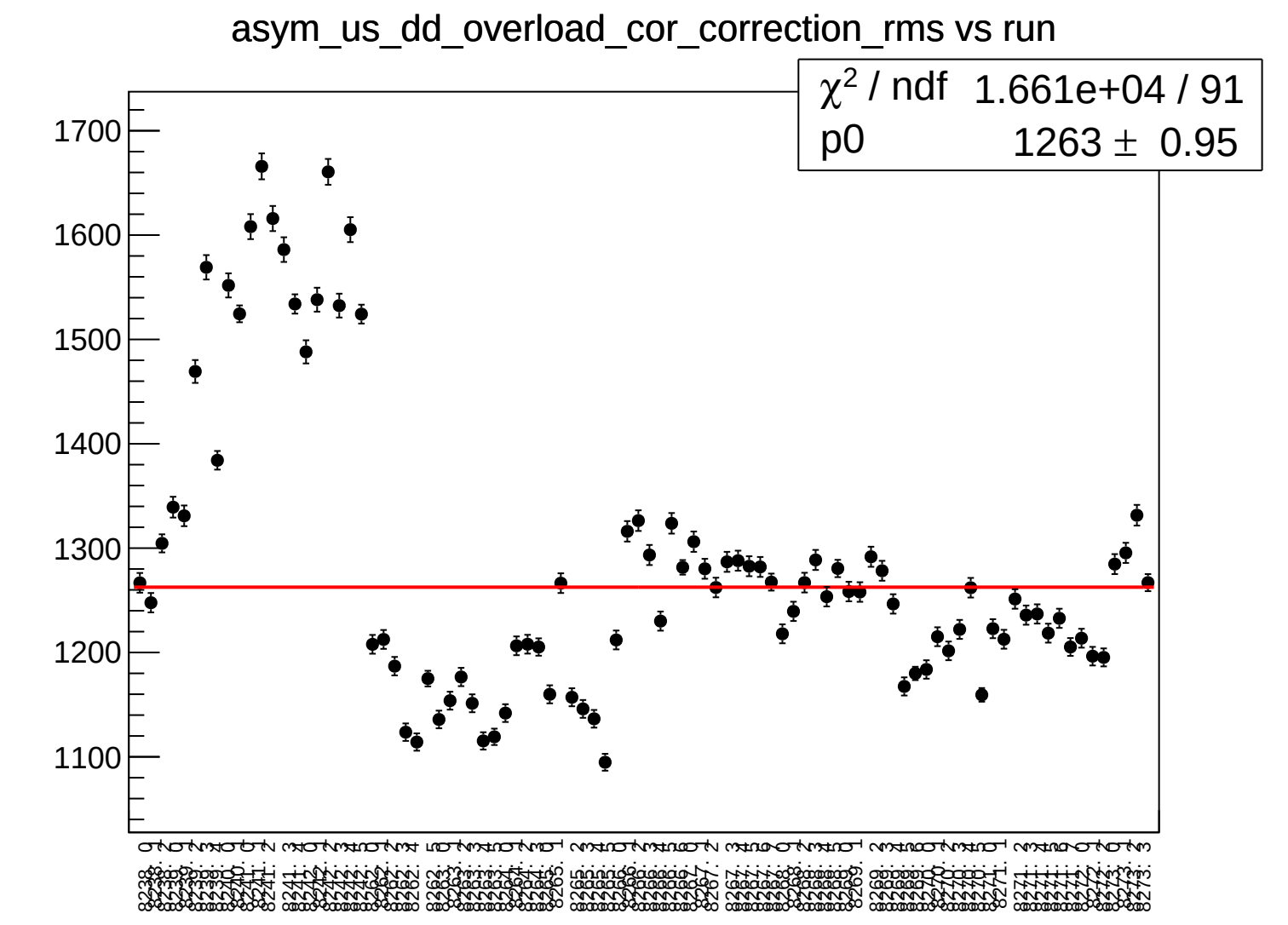

overload_cor_asym_us_dd_mean vs run
χ² / ndf 74.26 / 91
p0 −198.6 ± 804.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 473.9
Std Dev 0
2
1
0
−1
−2

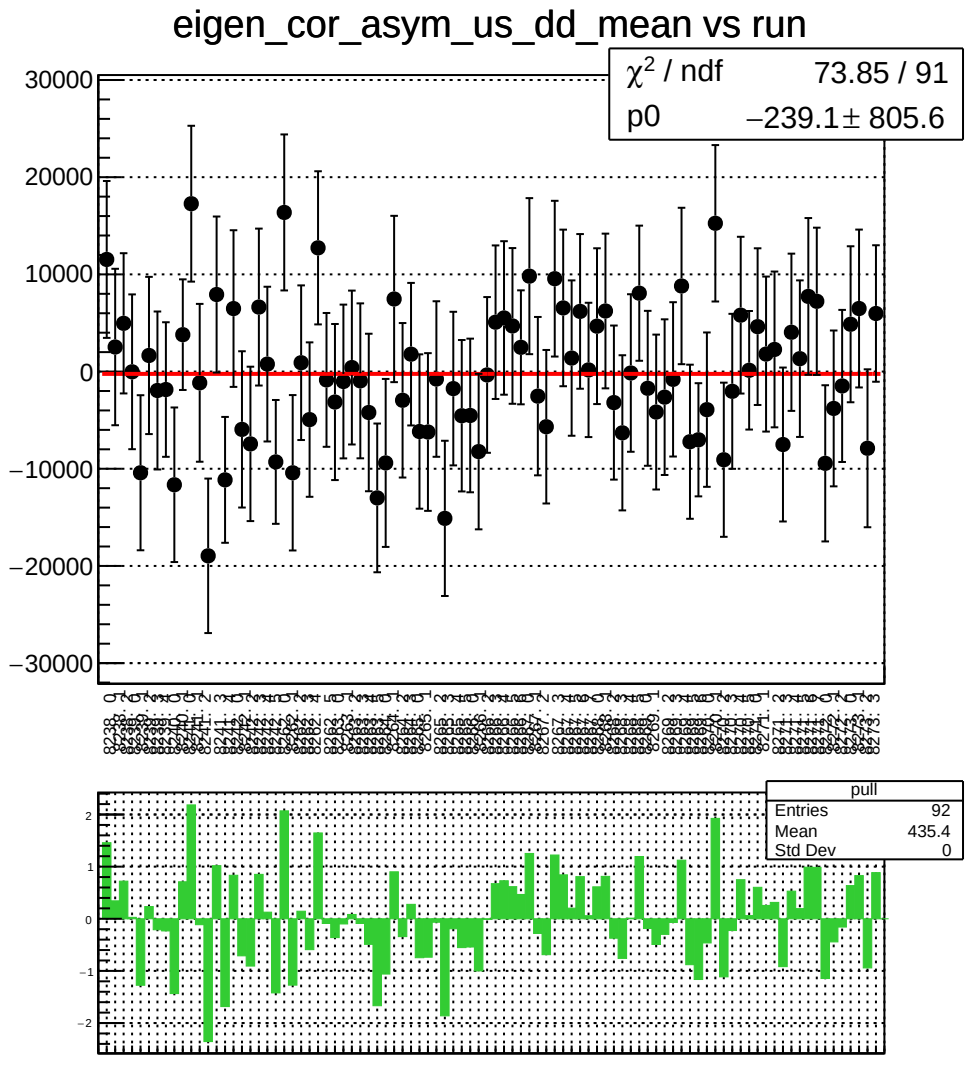

pull1D
Entries 92
Mean 0.0051
Std Dev 0.8984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

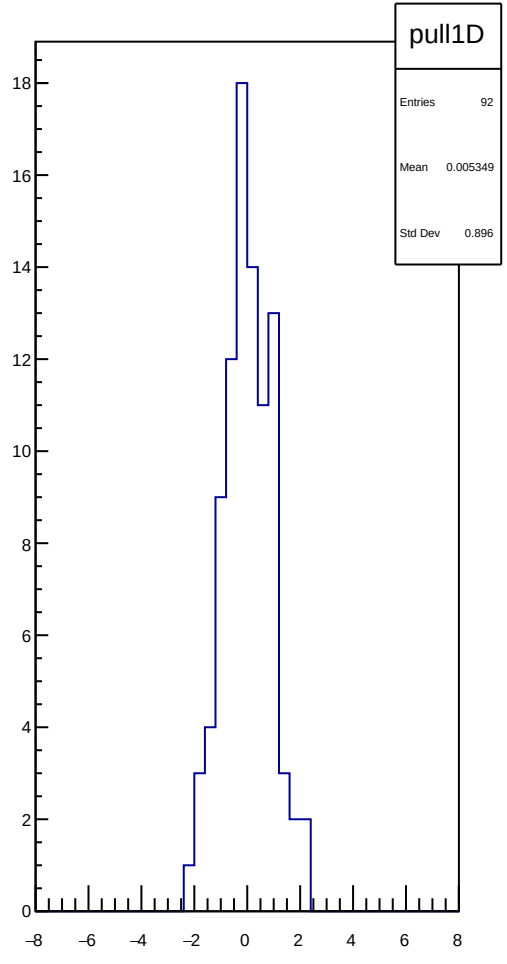

overload_cor_asym_us_dd_rms vs run
χ² / ndf 282.4 / 91
p0 759.9 ± 0.5692
820
800
780
760
740

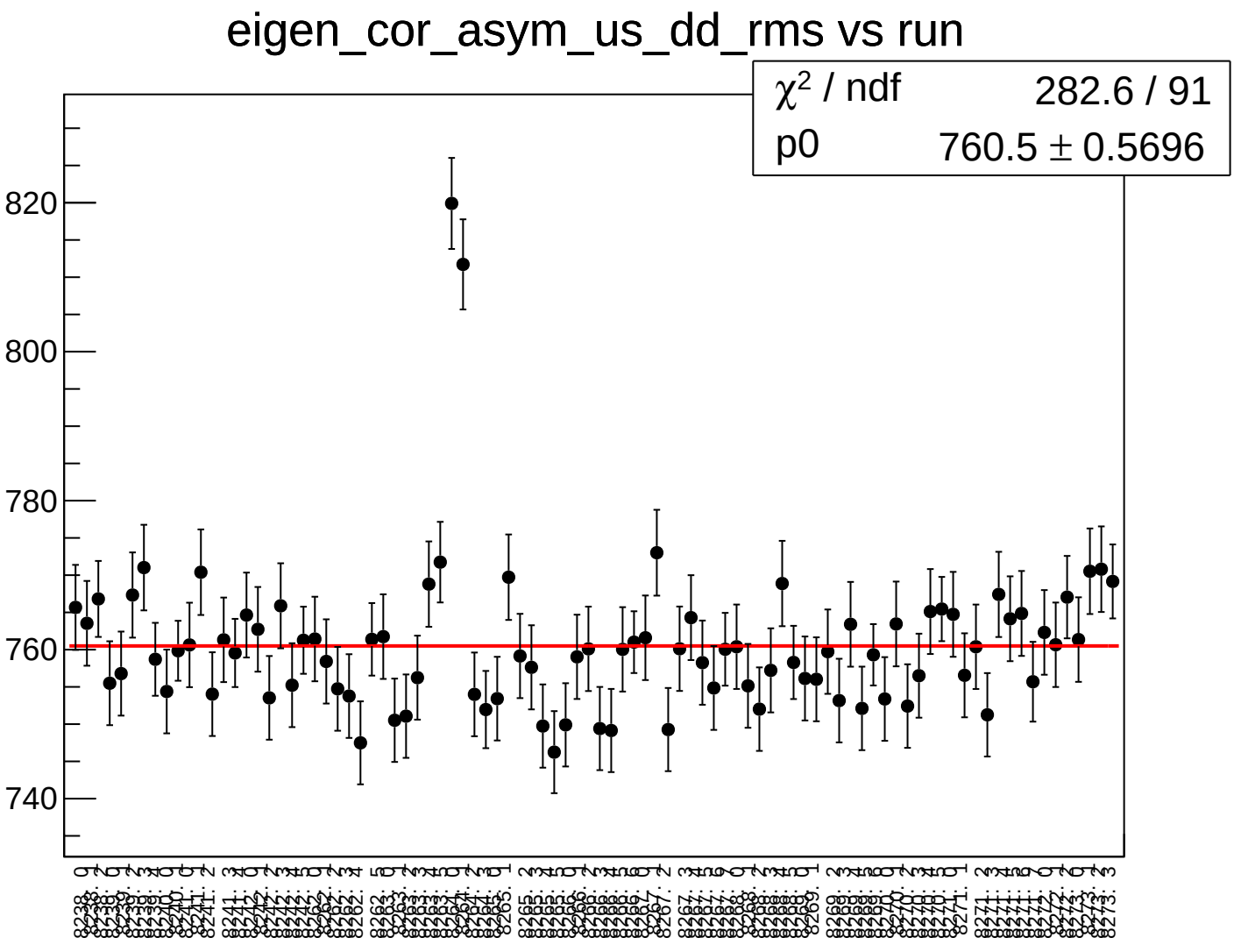

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 66.39 / 91
p0 −4281 ± 1344
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −621
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

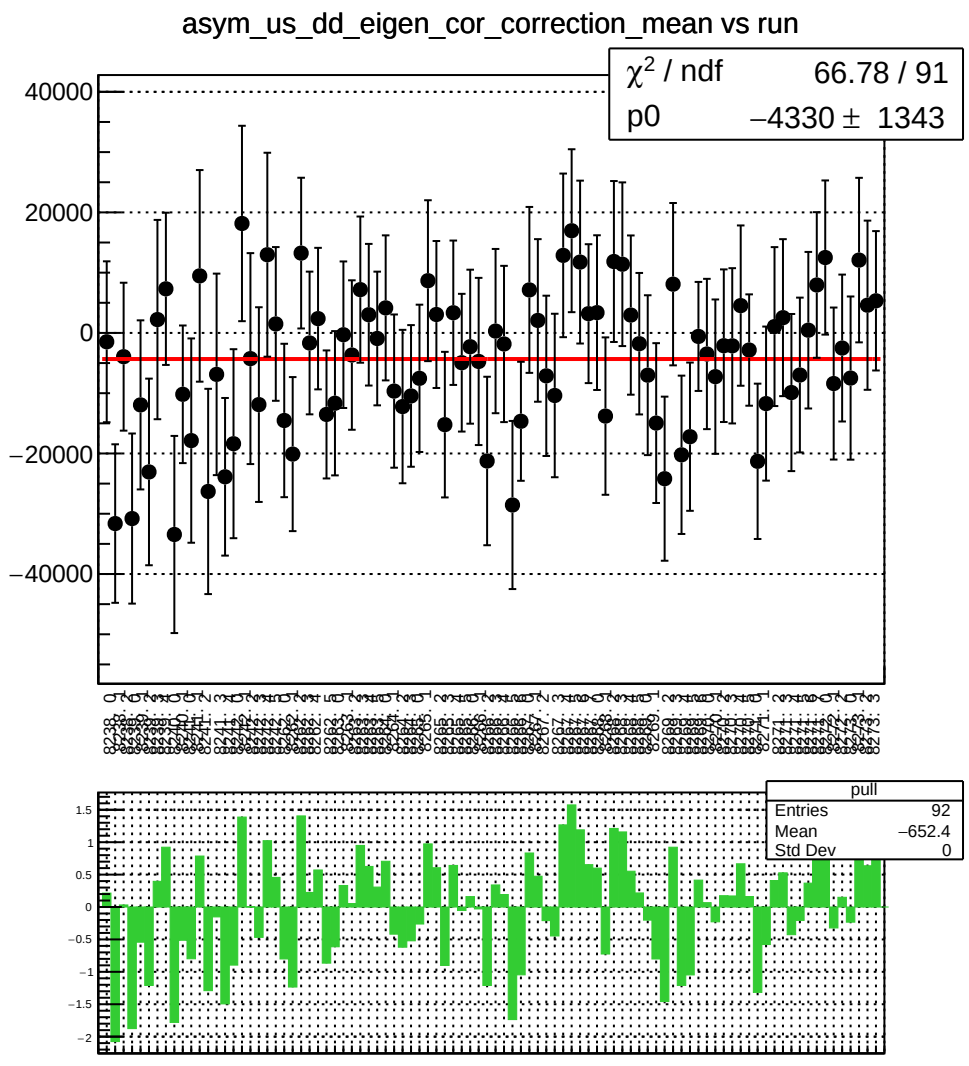

pull1D
Entries 92
Mean −0.008524
Std Dev 0.8494
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

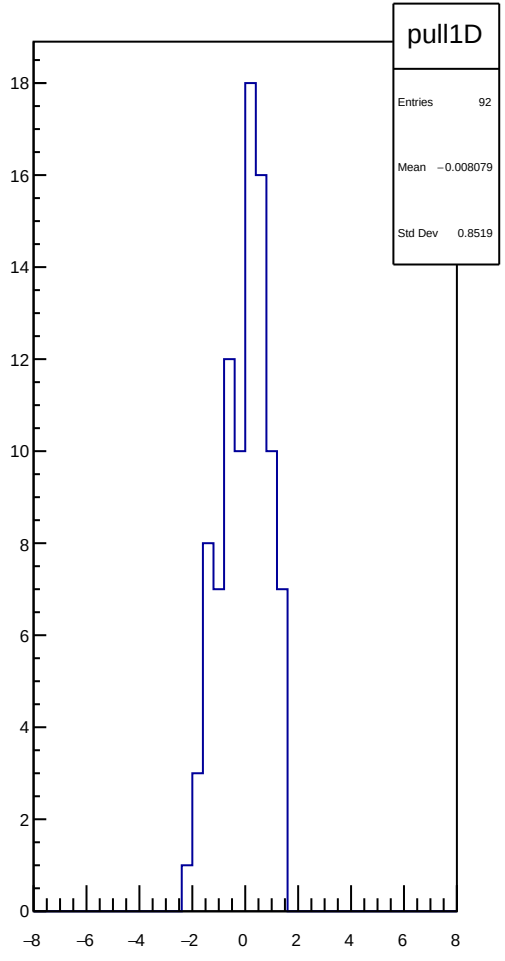

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 1.661e+04 / 91
p0 1263 ± 0.95
1700
1600
1500
1400
1300
1200
1100

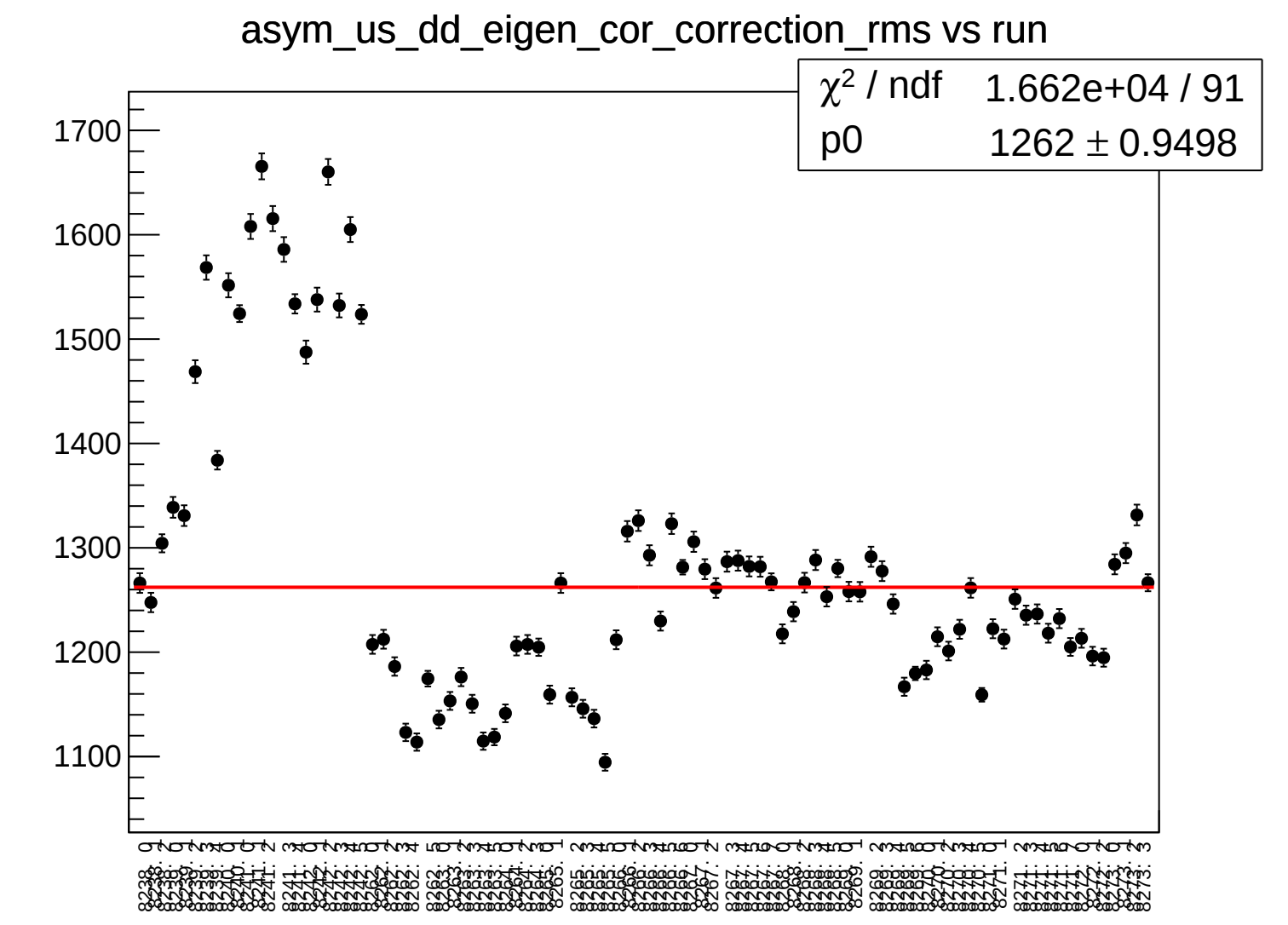

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 73.85 / 91
p0 −239.1± 805.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 435.4
Std Dev 0
2
1
0
−1
−2

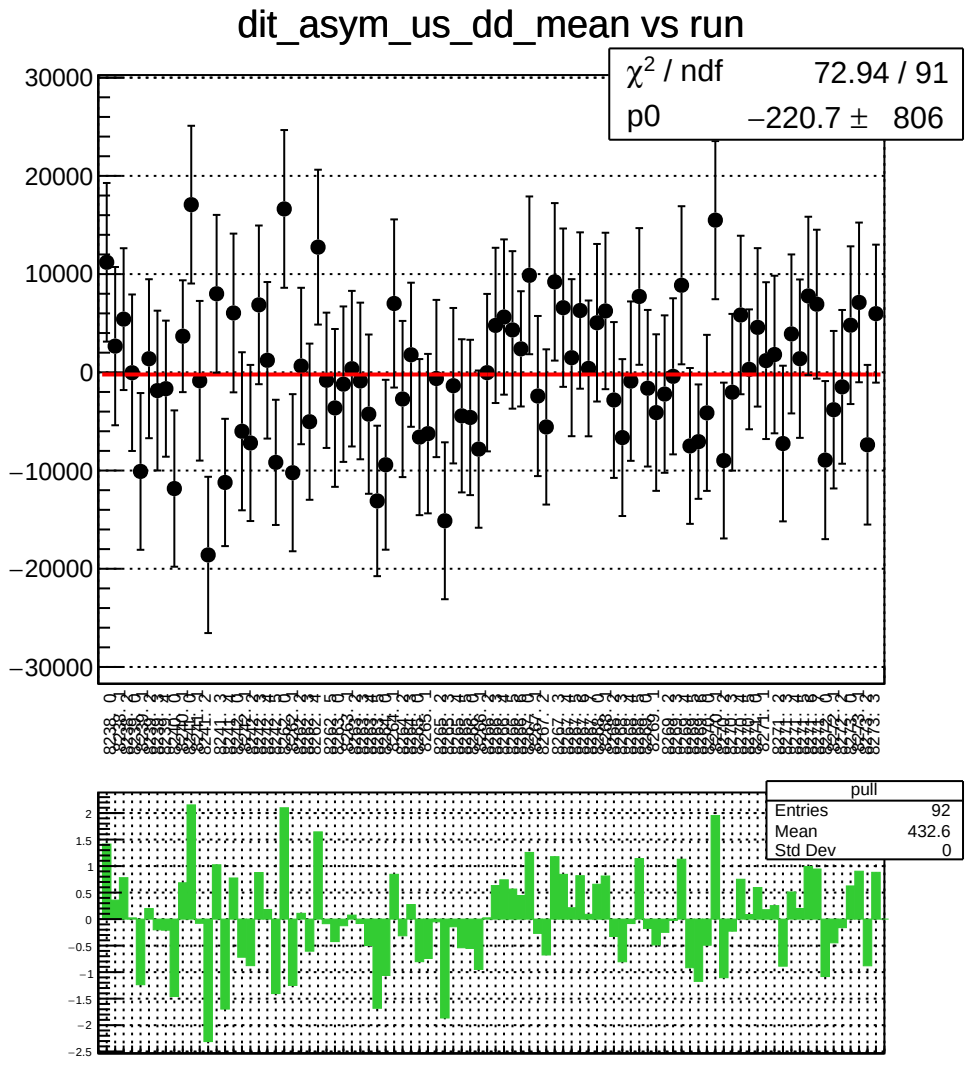

pull1D
Entries 92
Mean 0.005349
Std Dev 0.896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

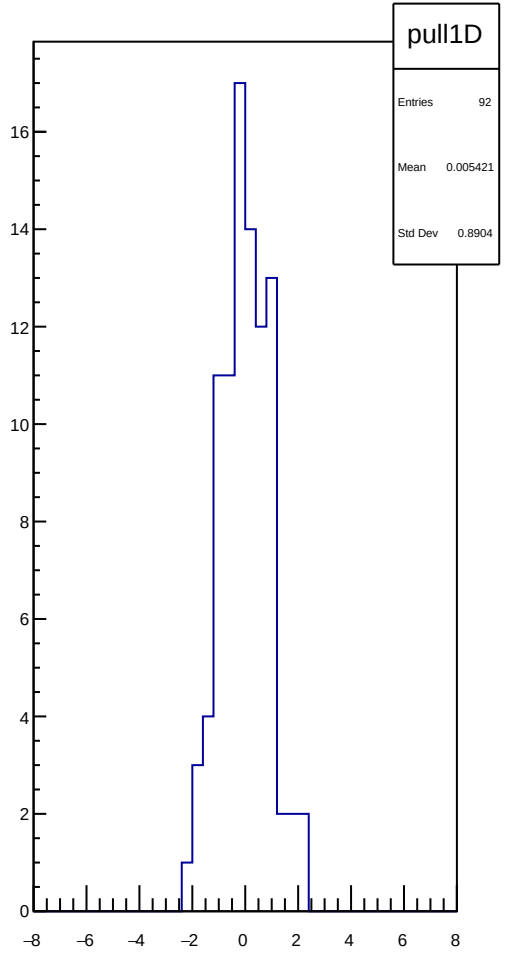

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 282.6 / 91
p0 760.5 ± 0.5696
820
800
780
760
740

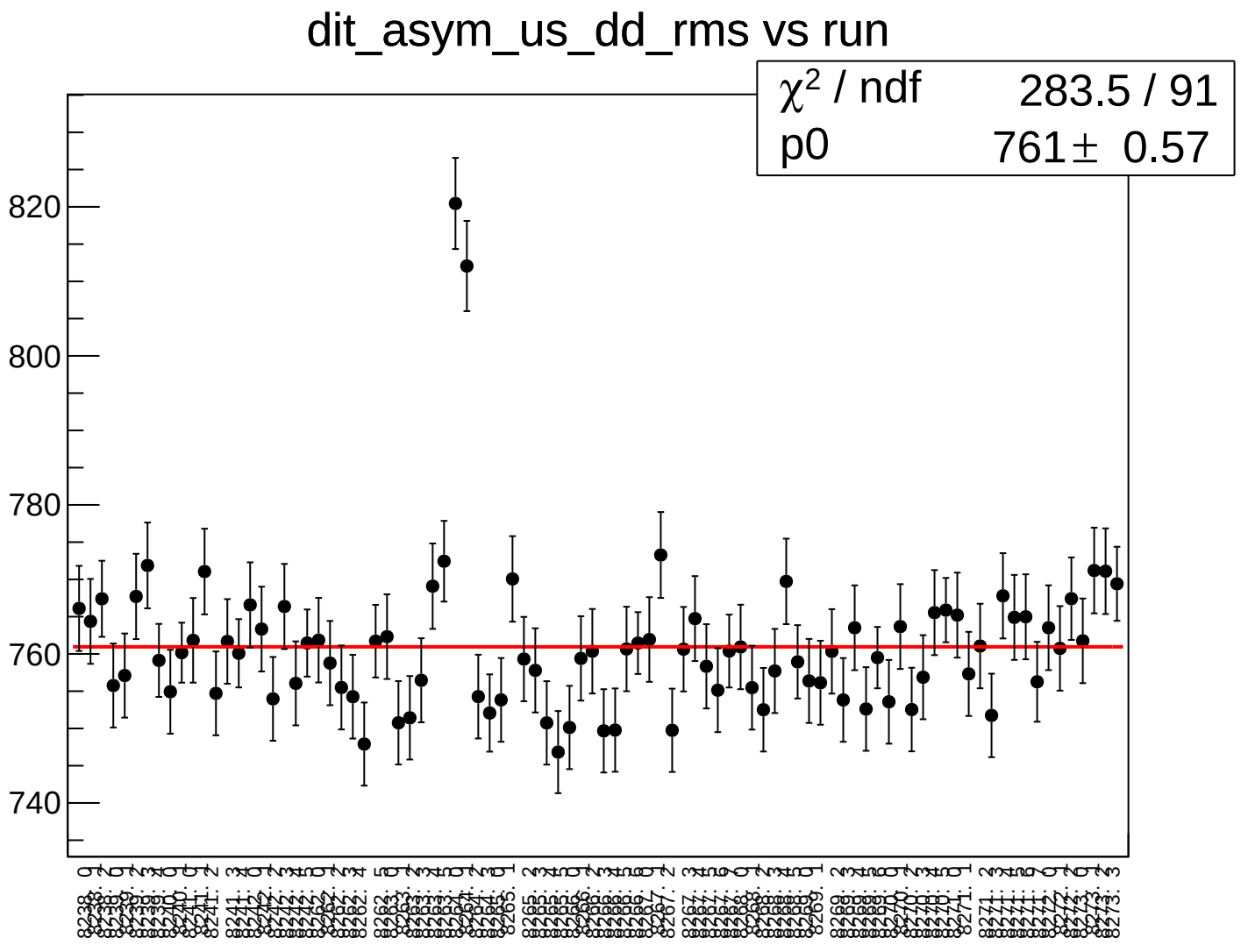

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 66.78 / 91
p0 −4330 ± 1343
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −652.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

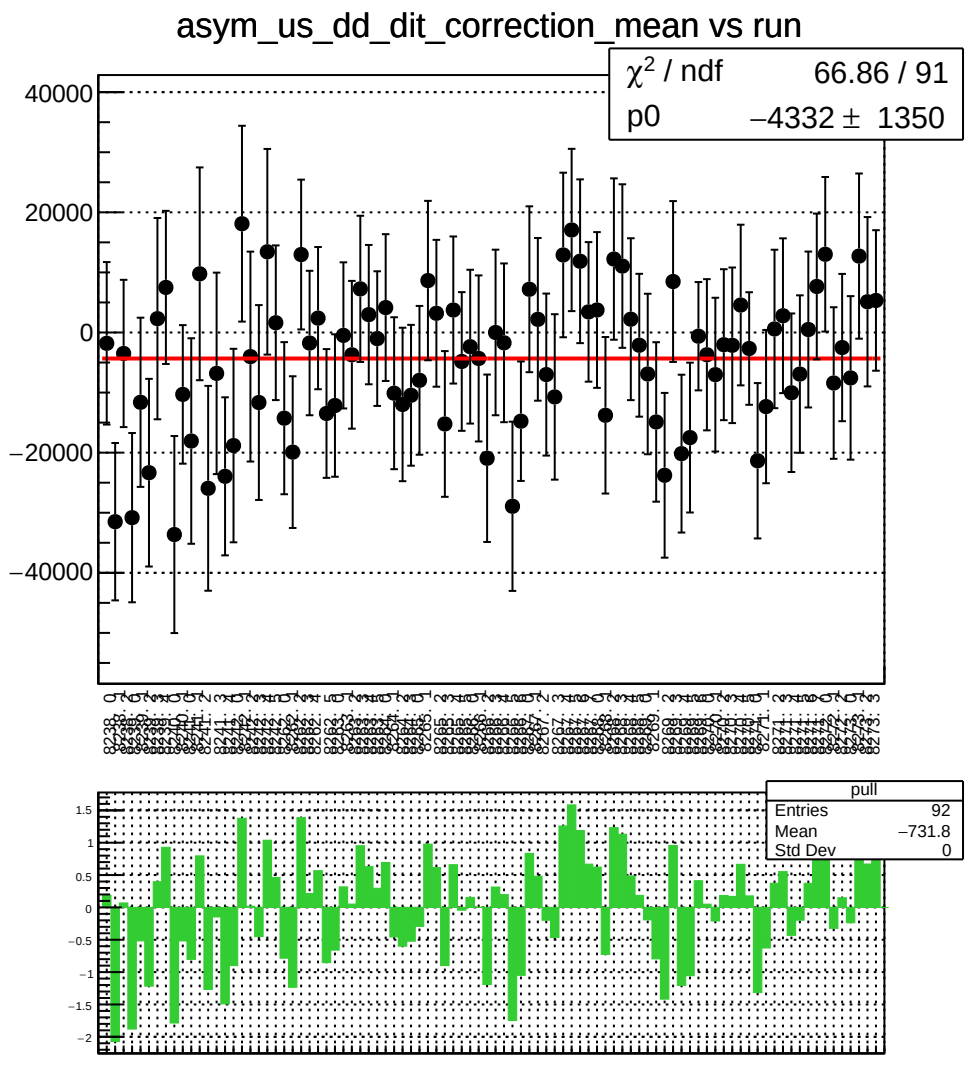

pull1D
Entries 92
Mean −0.008079
Std Dev 0.8519
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

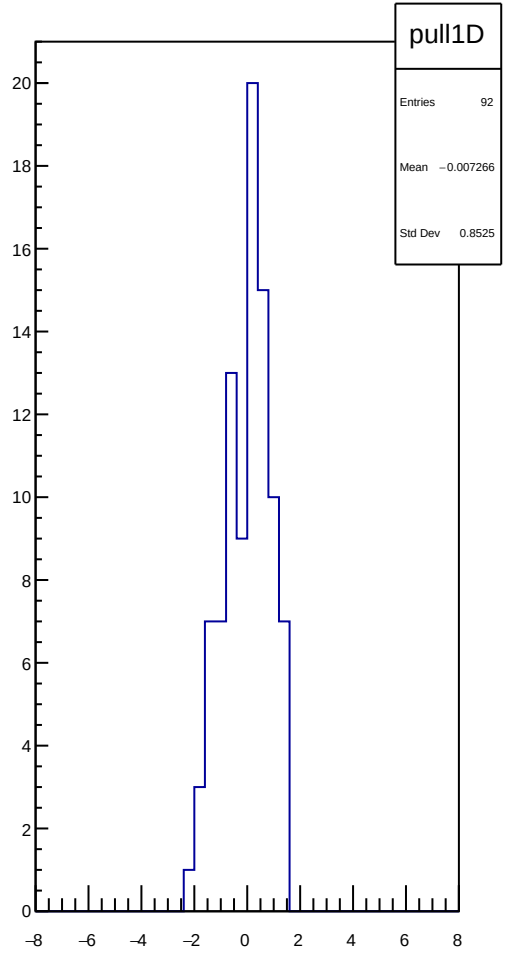

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.662e+04 / 91
p0 1262 ± 0.9498
1700
1600
1500
1400
1300
1200
1100

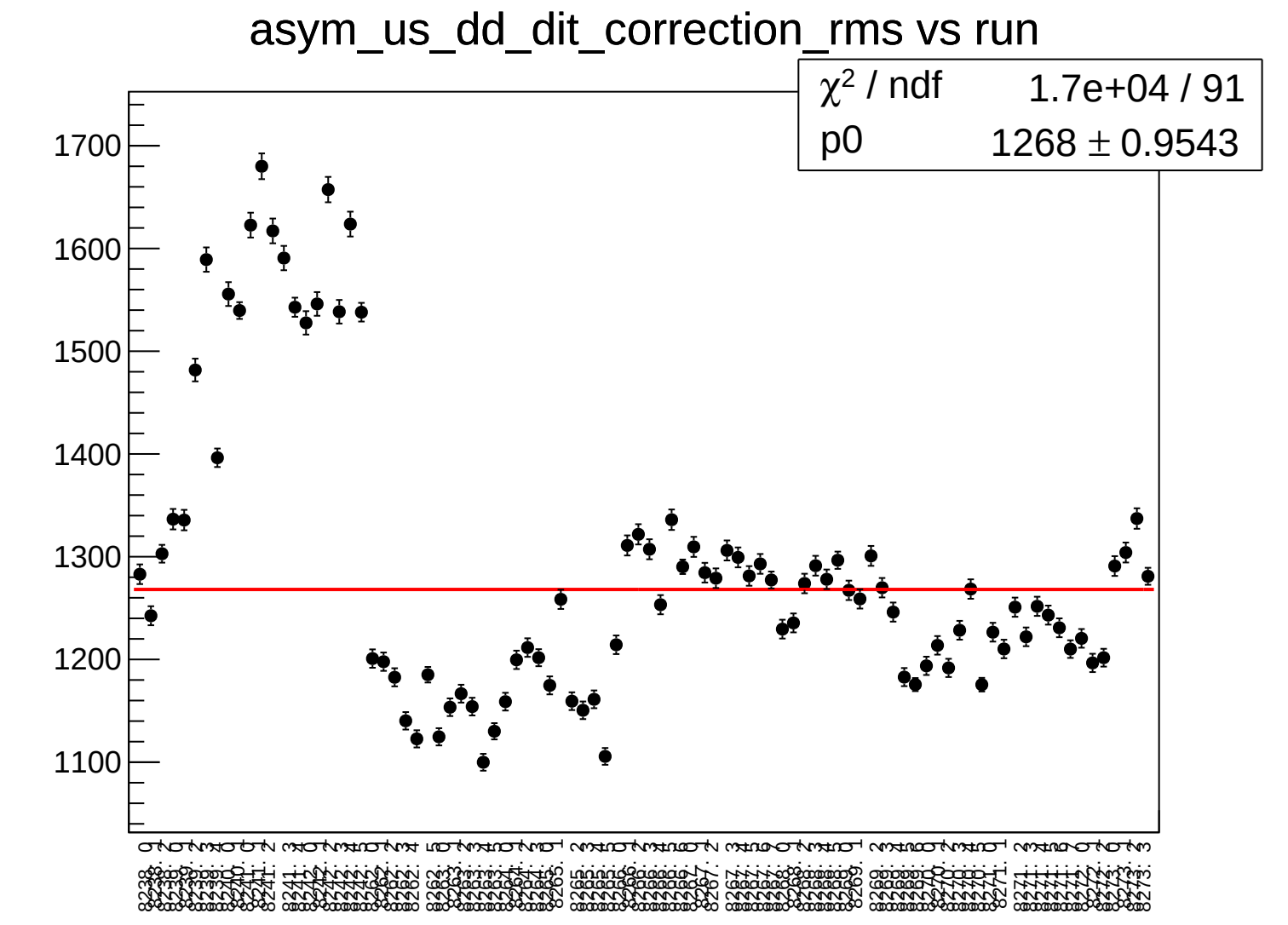

dit_asym_us_dd_mean vs run
χ² / ndf 72.94 / 91
p0 −220.7 ± 806
pull
Entries 92
Mean 432.6
Std Dev 0

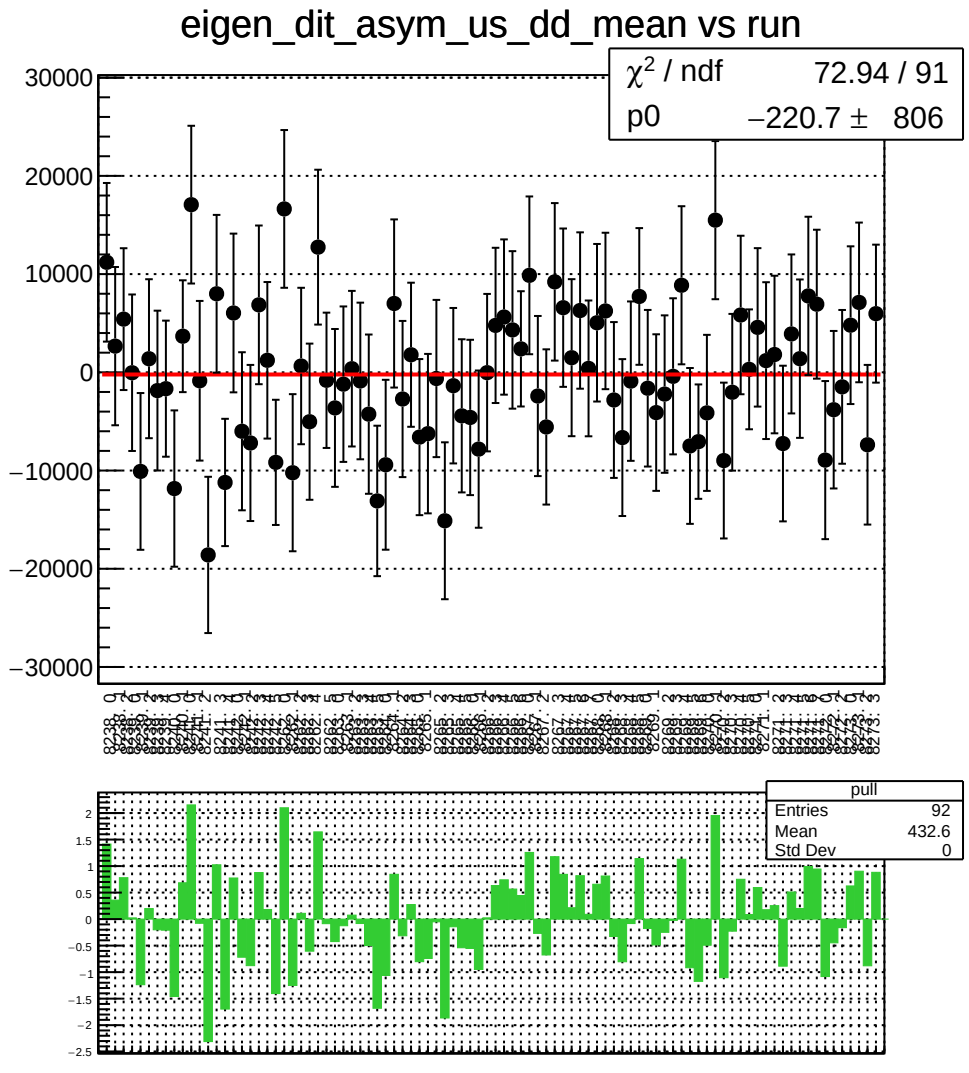

pull1D
Entries 92
Mean 0.005421
Std Dev 0.8904

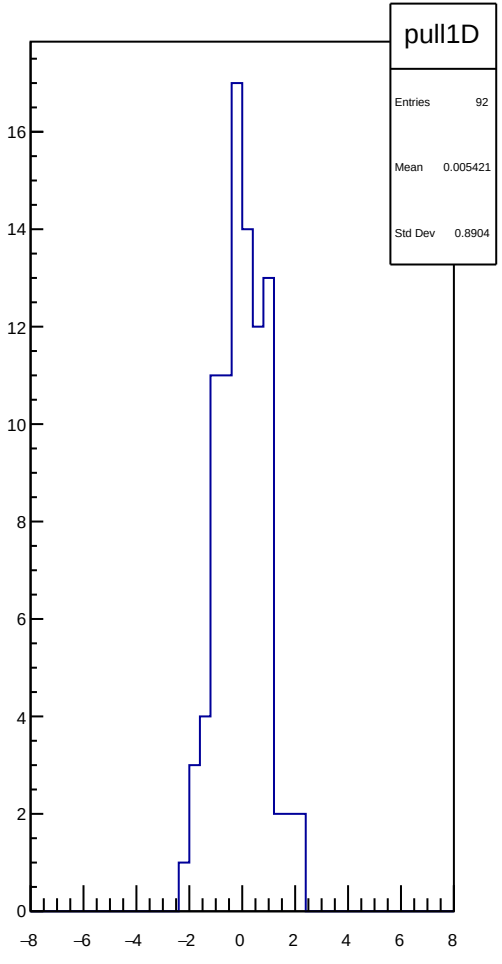

dit_asym_us_dd_rms vs run
χ² / ndf 283.5 / 91
p0 761± 0.57
820
800
780
760
740

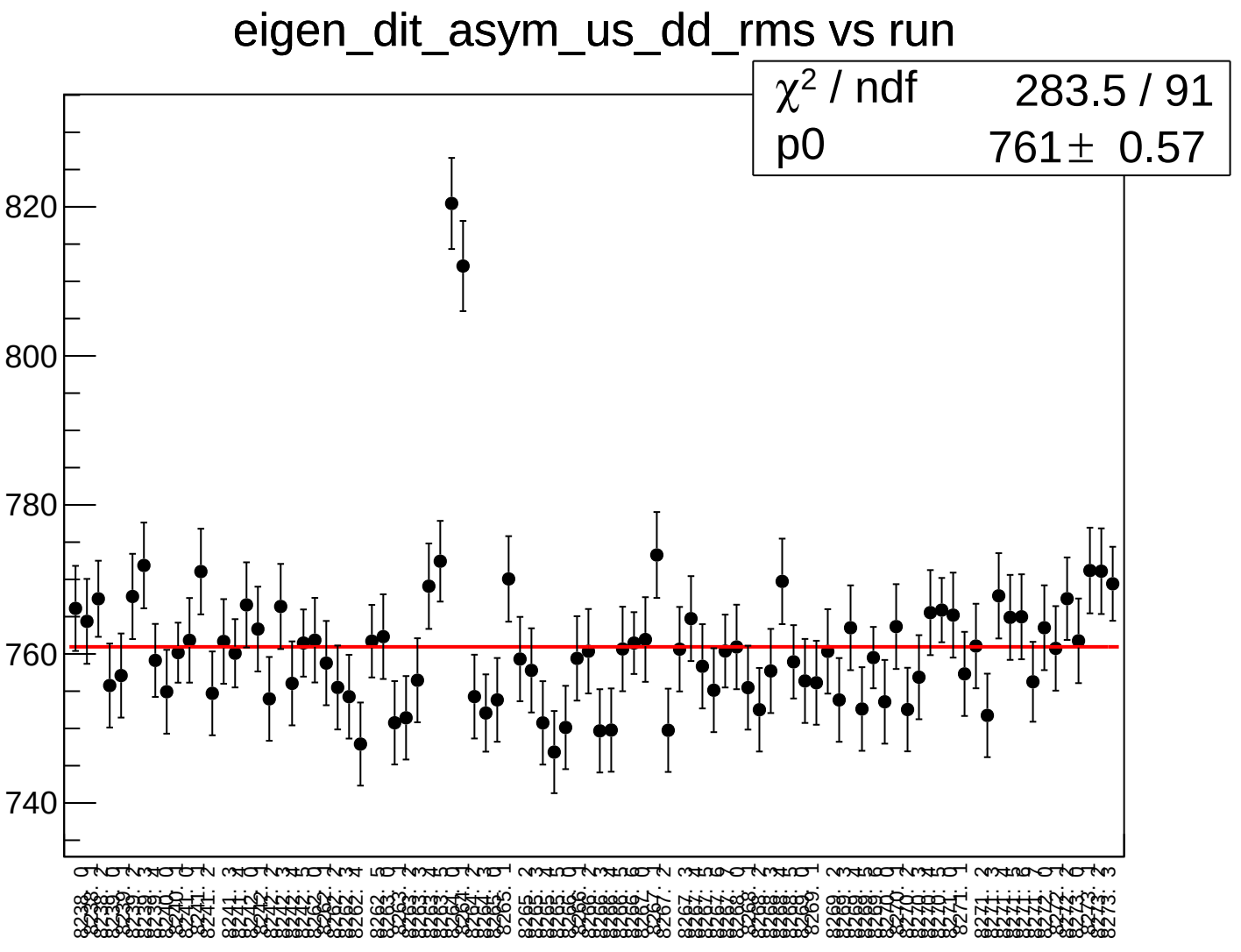

asym_us_dd_dit_correction_mean vs run
χ² / ndf 66.86 / 91
p0 −4332 ± 1350
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −731.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

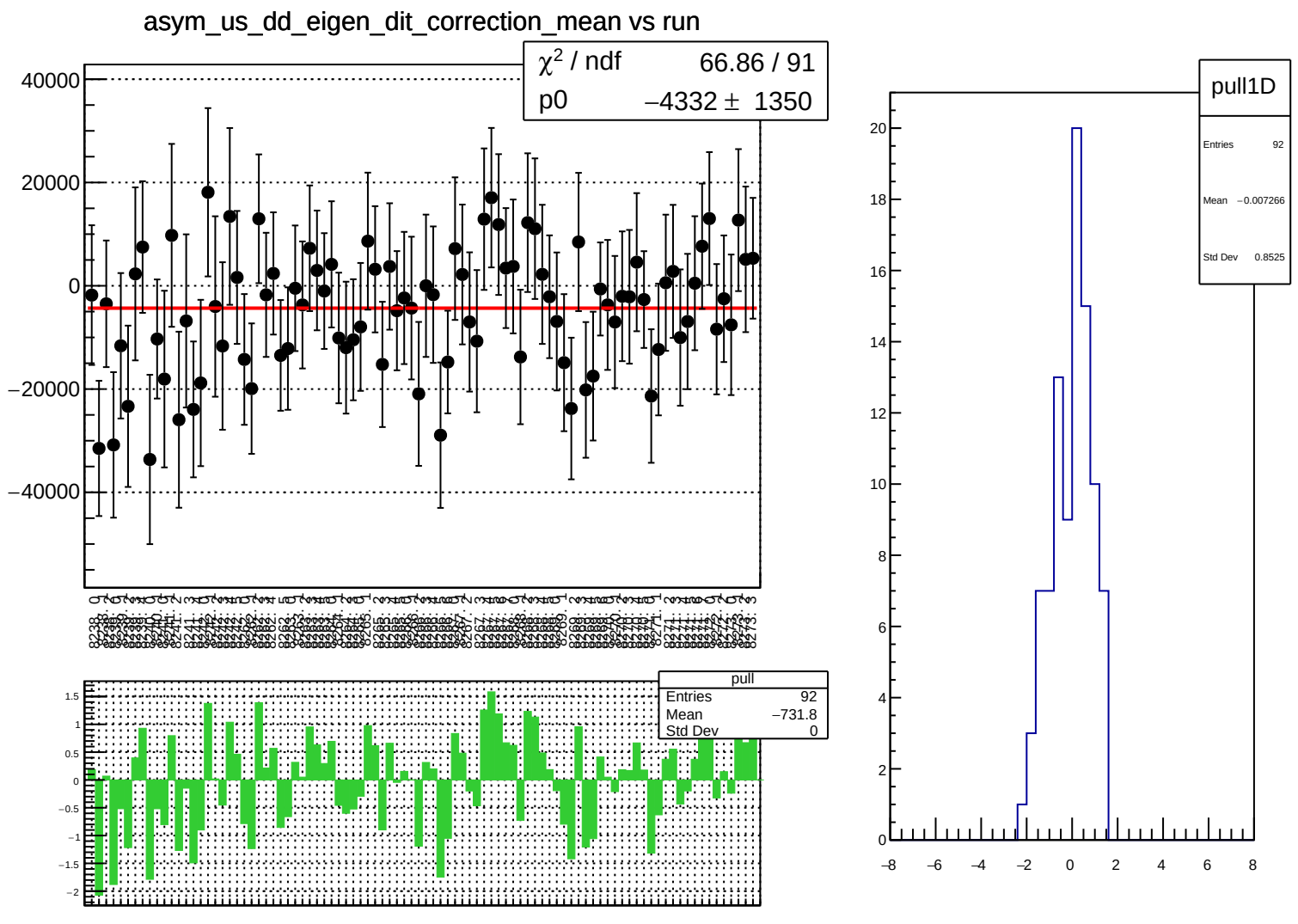

pull1D
Entries 92
Mean −0.007266
Std Dev 0.8525
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

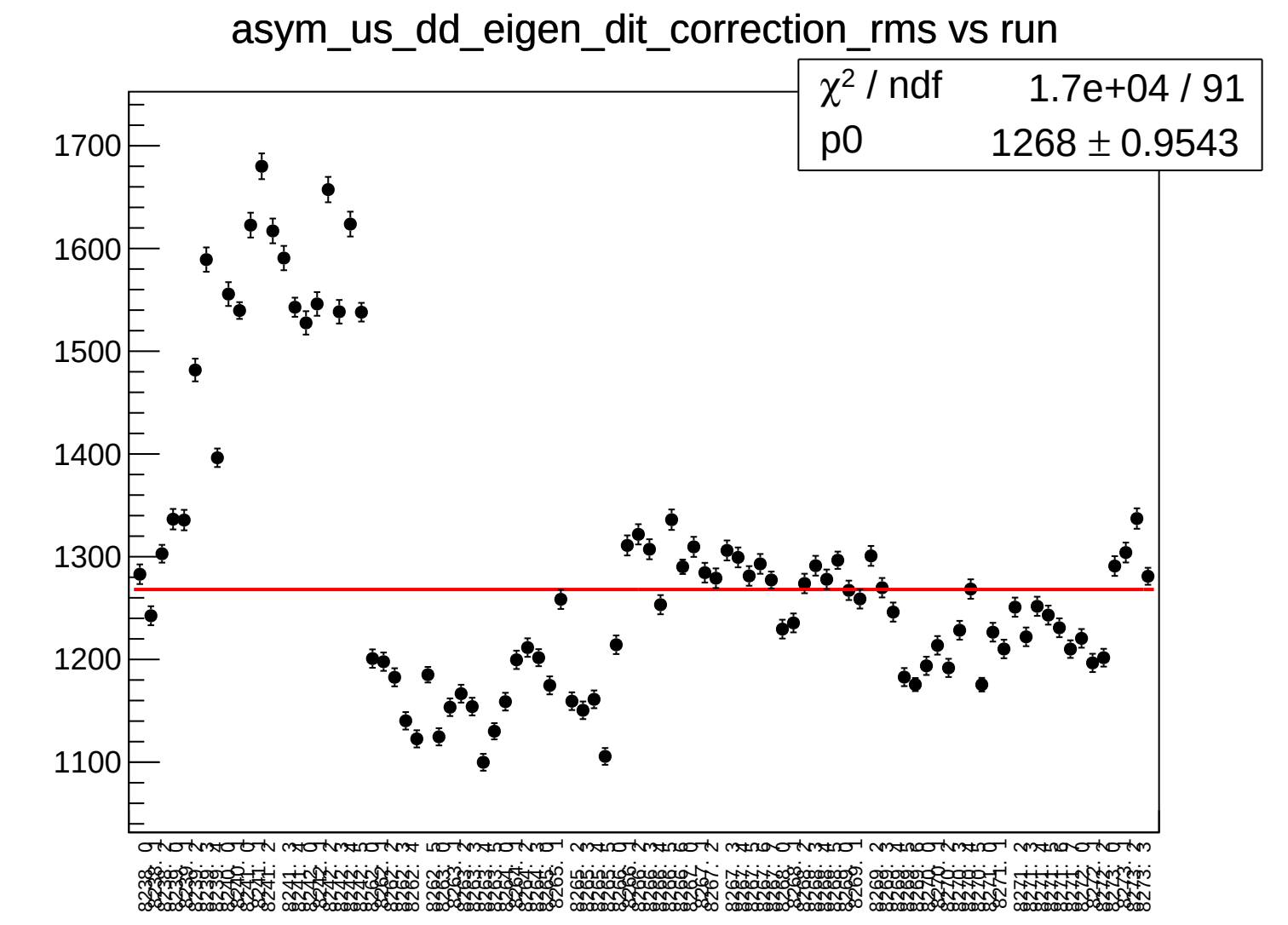

asym_us_dd_dit_correction_rms vs run
χ² / ndf 1.7e+04 / 91
p0 1268 ± 0.9543
1700
1600
1500
1400
1300
1200
1100

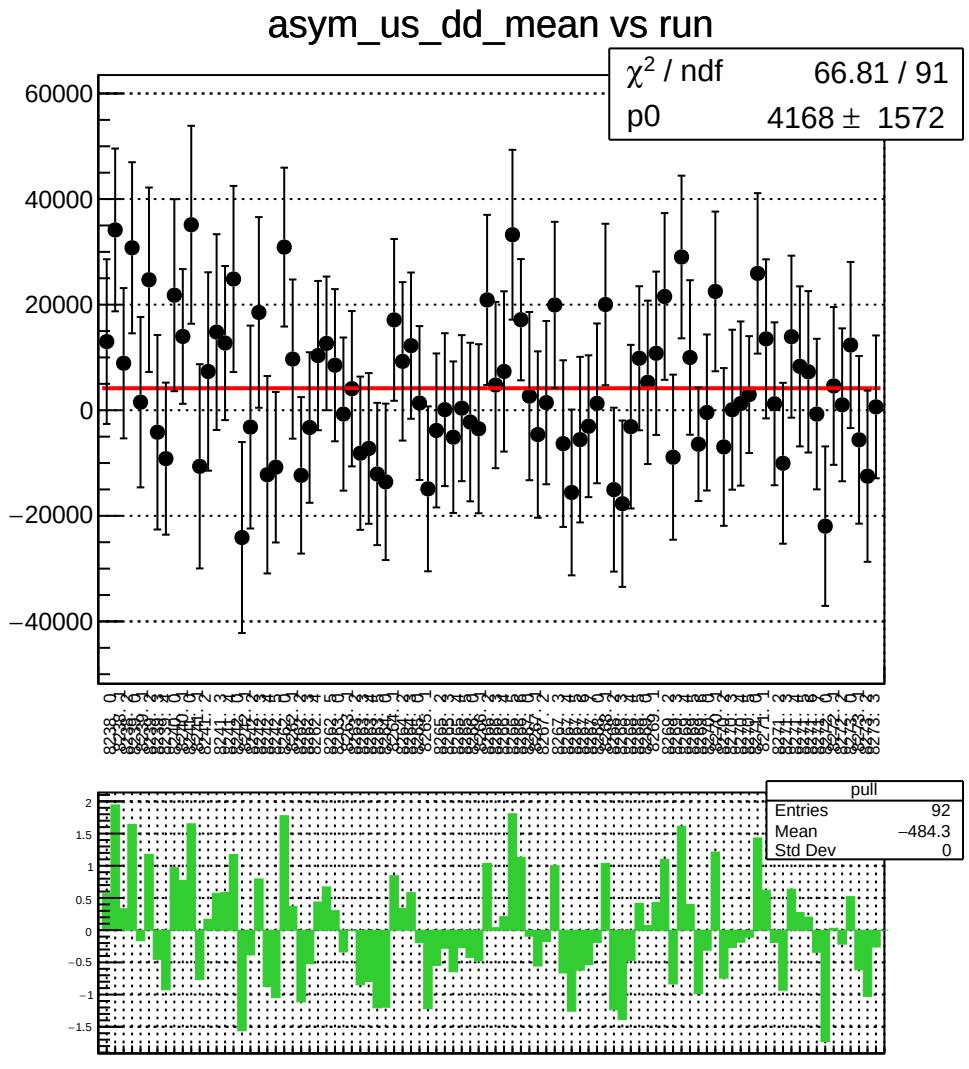

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 72.94 / 91
p0 −220.7 ± 806
pull
Entries 92
Mean 432.6
Std Dev 0

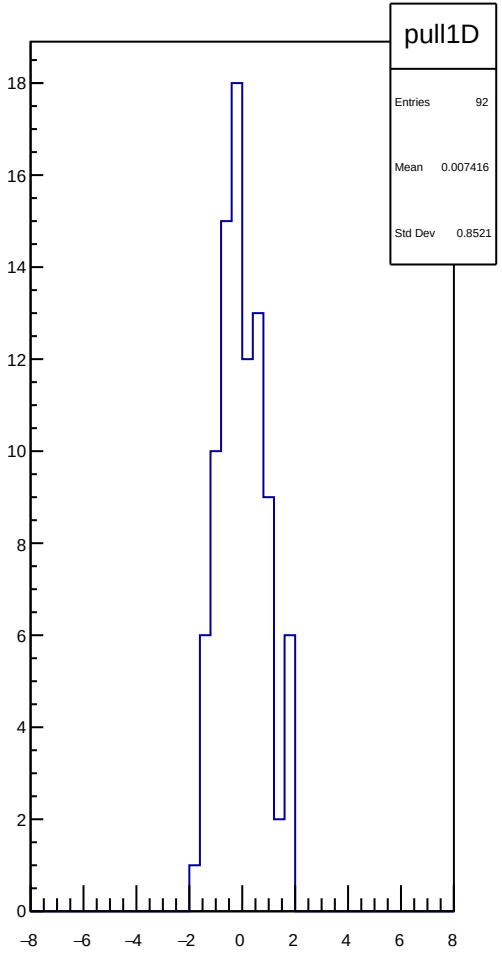

pull1D
Entries 92
Mean 0.005421
Std Dev 0.8904

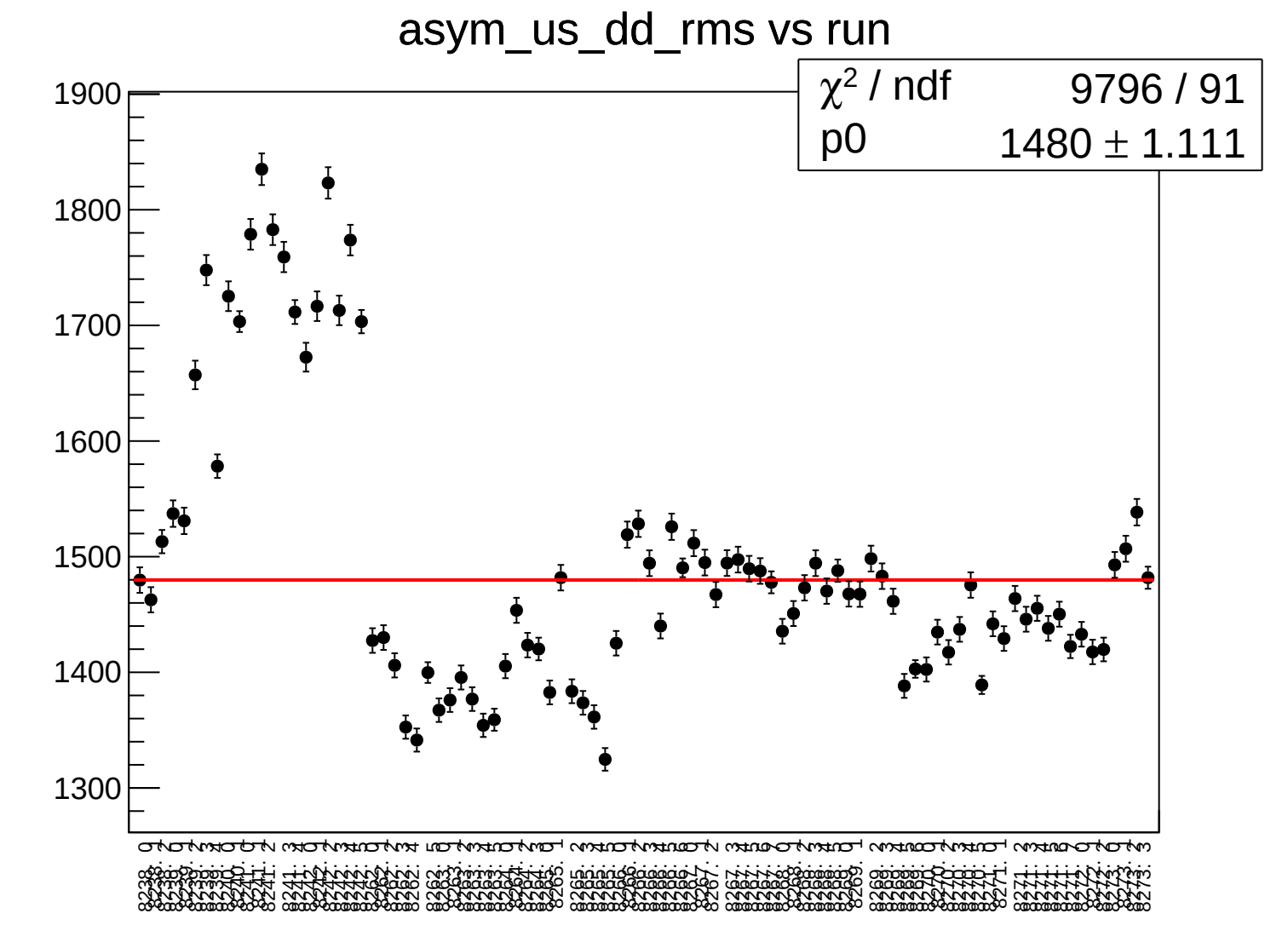

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 283.5 / 91
p0 761± 0.57
820
800
780
760
740

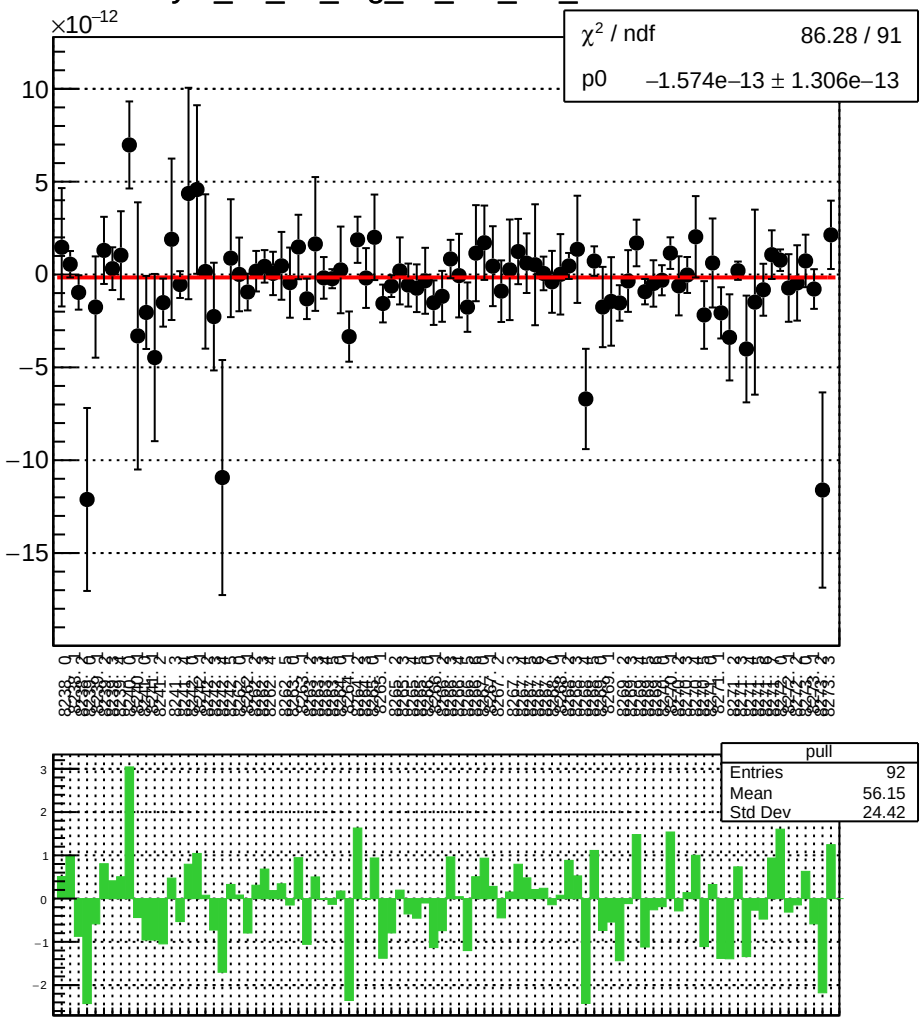

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 66.86 / 91
p0 −4332 ± 1350
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −731.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.007266
Std Dev 0.8525
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

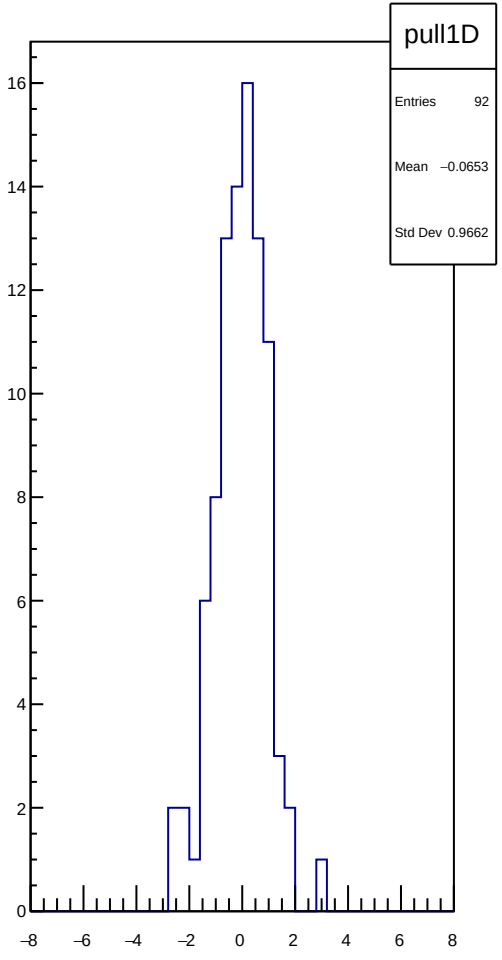

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.7e+04 / 91
p0 1268 ± 0.9543
1700
1600
1500
1400
1300
1200
1100

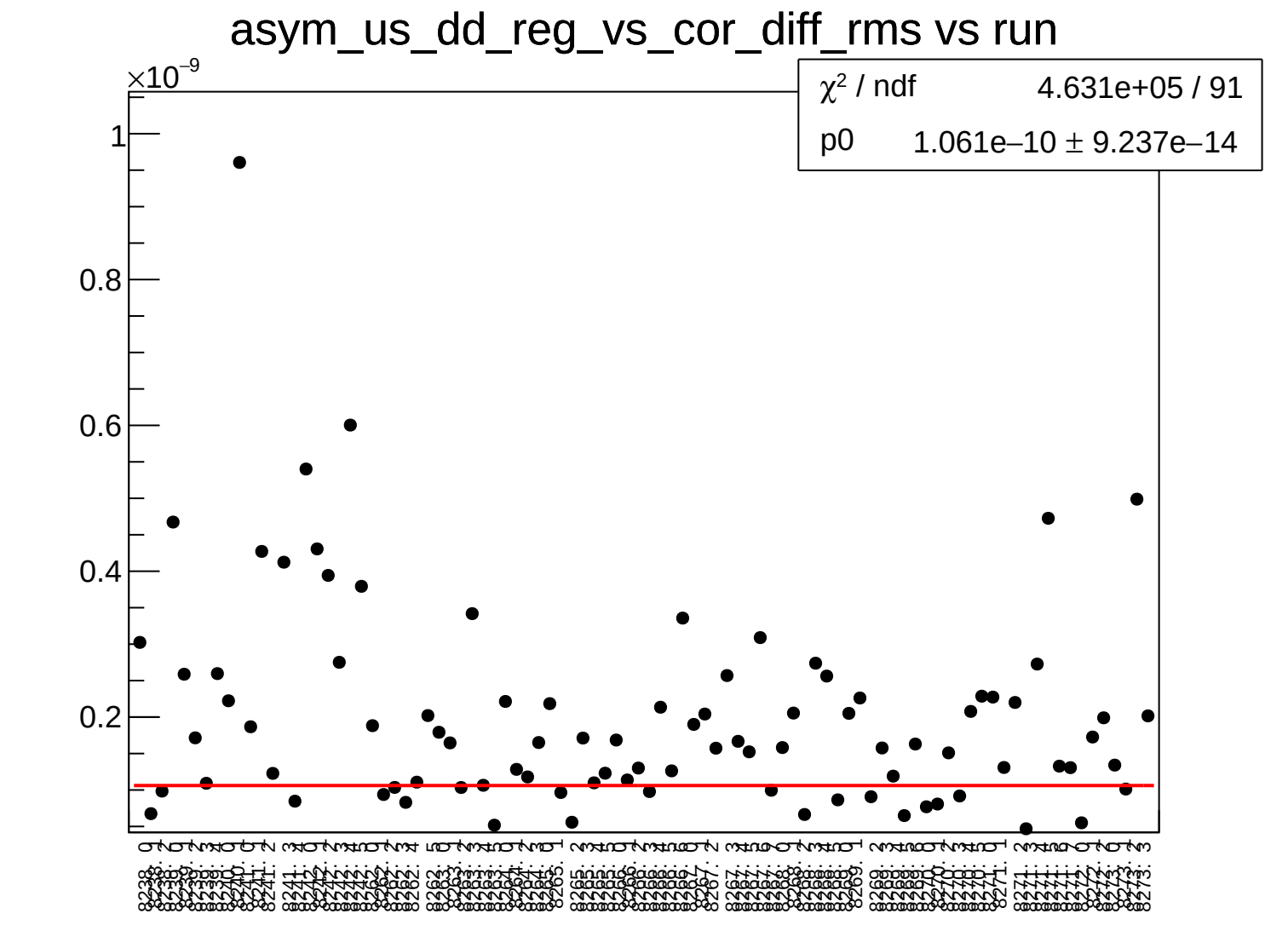

asym_us_dd_mean vs run
χ² / ndf 66.81 / 91
p0 4168 ± 1572
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −484.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

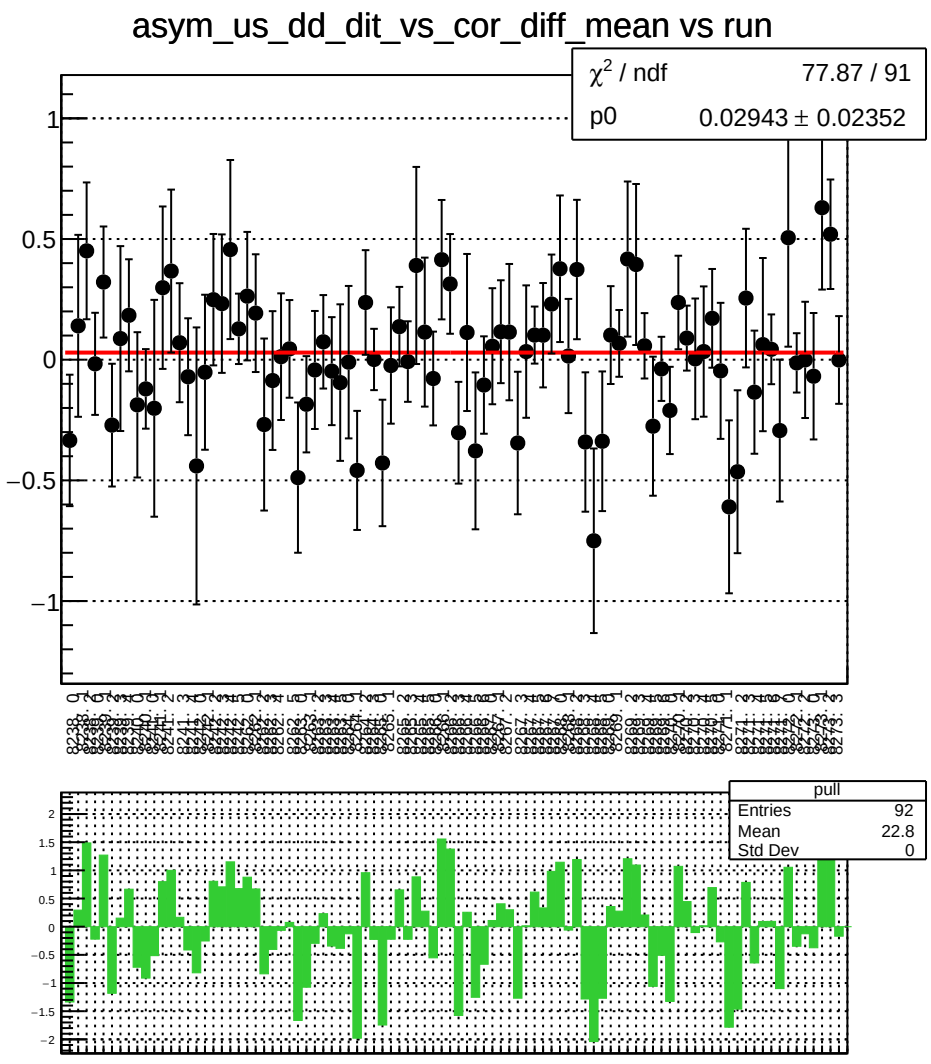

pull1D
Entries 92
Mean 0.007416
Std Dev 0.8521
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

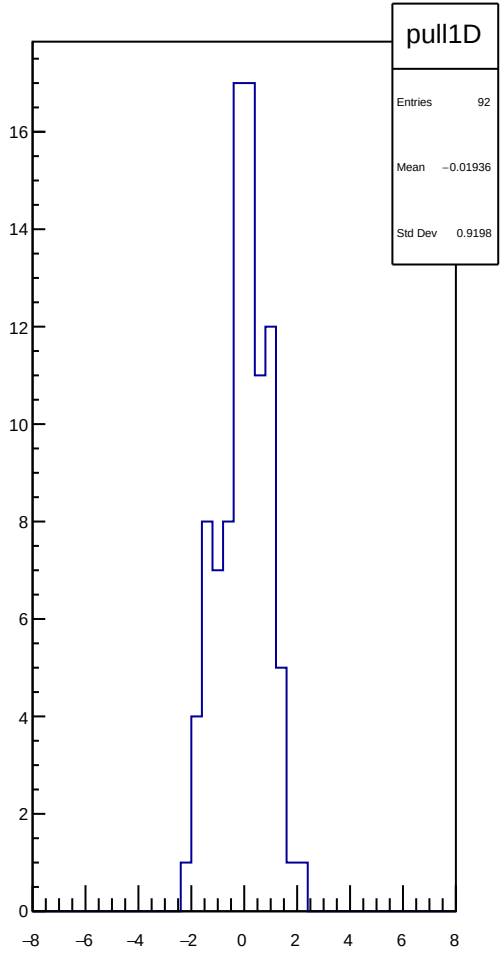

asym_us_dd_rms vs run
$\chi^2$ / ndf 9796 / 91
p0 1480 ± 1.111
1900
1800
1700
1600
1500
1400
1300

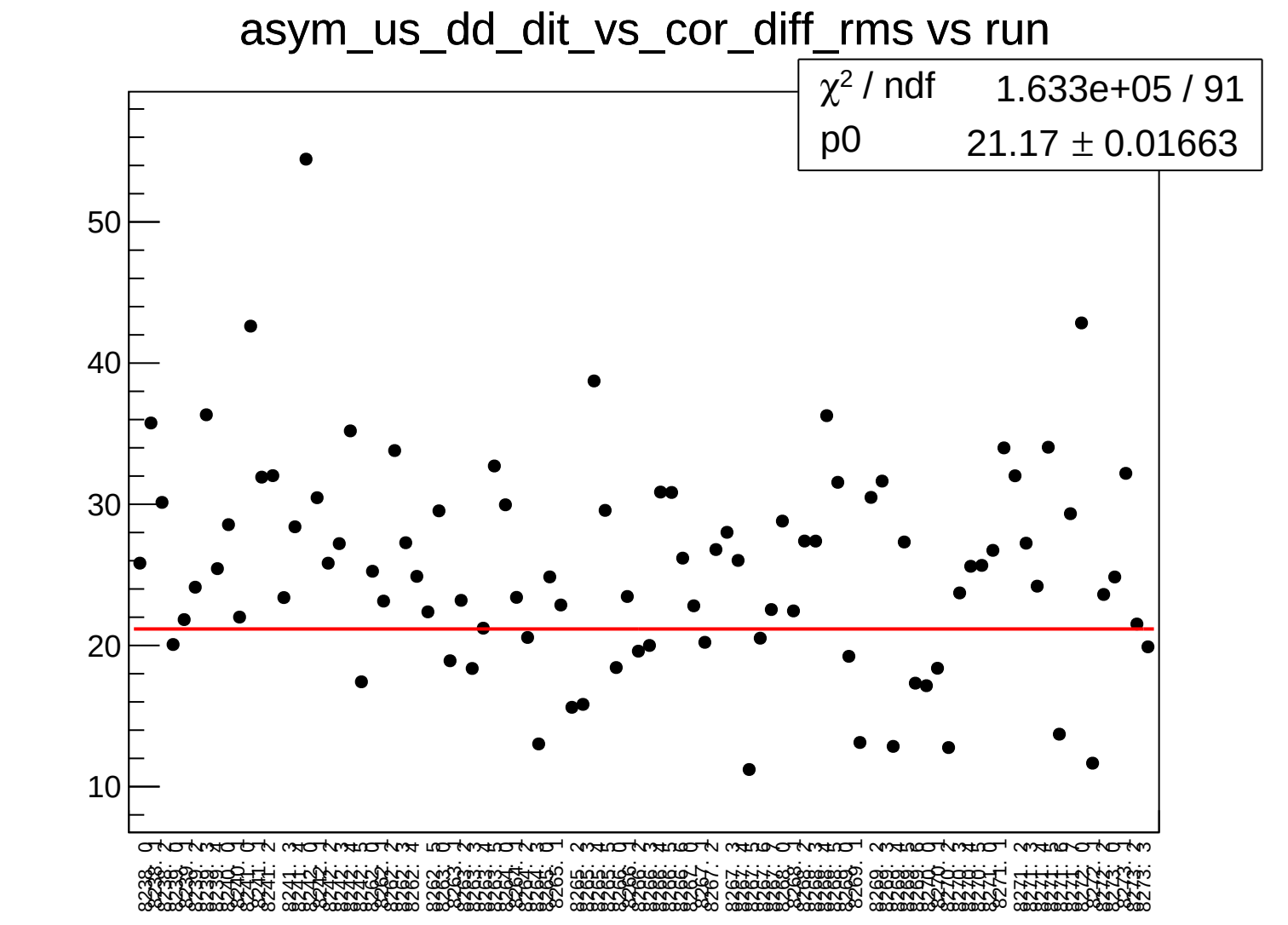

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.28 / 91
p0 −1.574e−13 ± 1.306e−13
pull
Entries 92
Mean 56.15
Std Dev 24.42

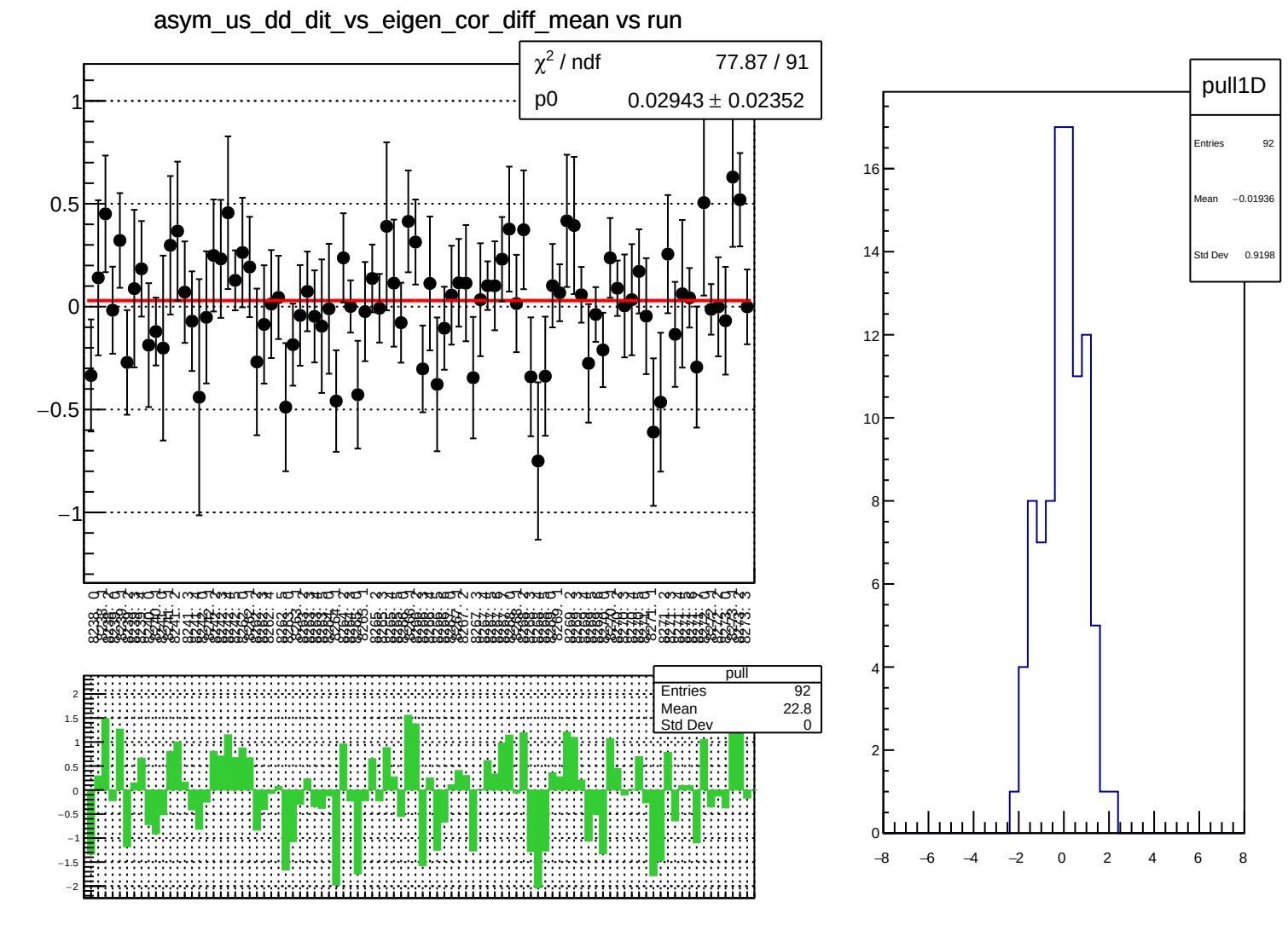

pull1D
Entries 92
Mean −0.0653
Std Dev 0.9662

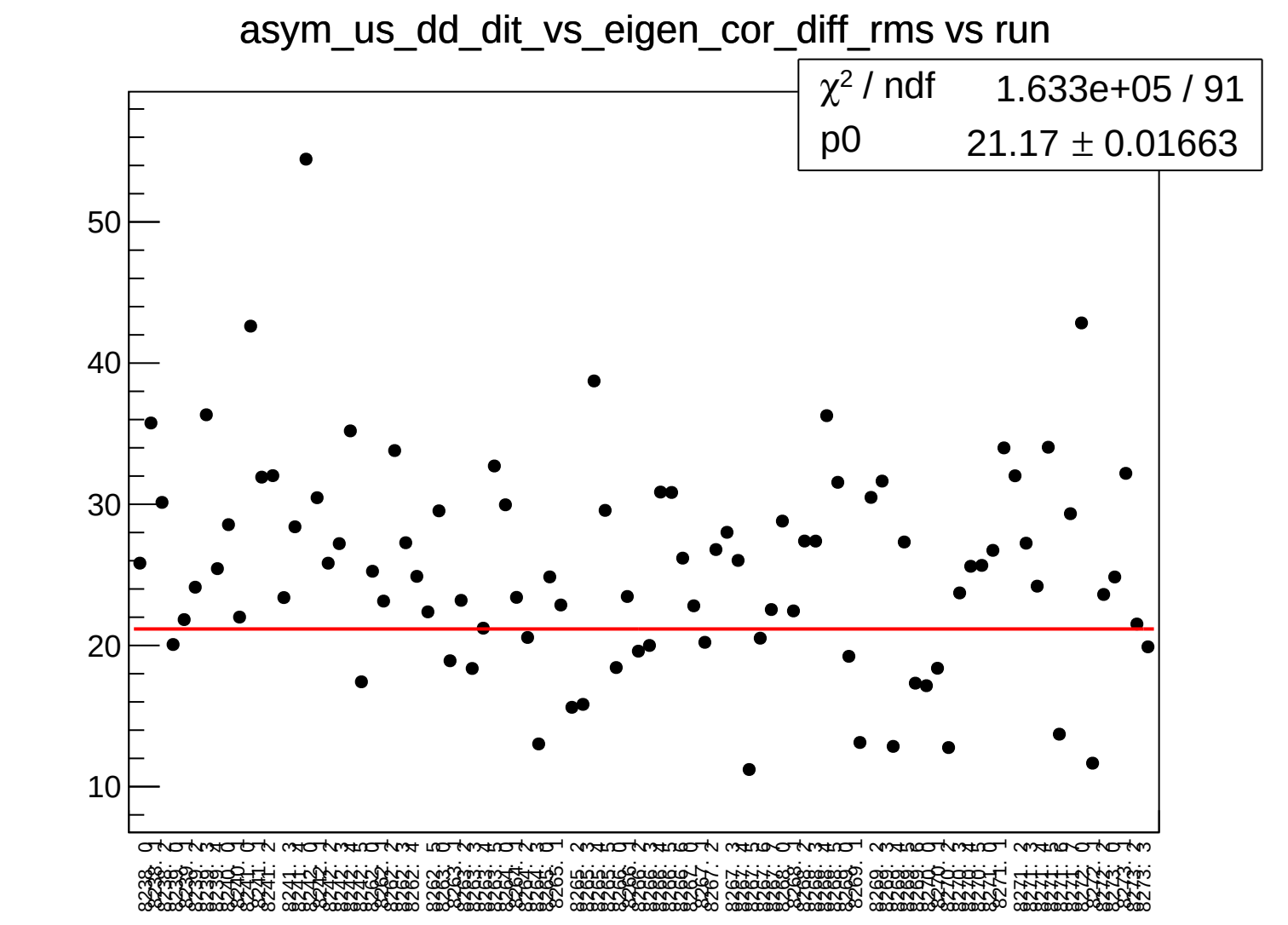

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.631e+05 / 91
p0 1.061e−10 ± 9.237e−14
1
0.8
0.6
0.4
0.2

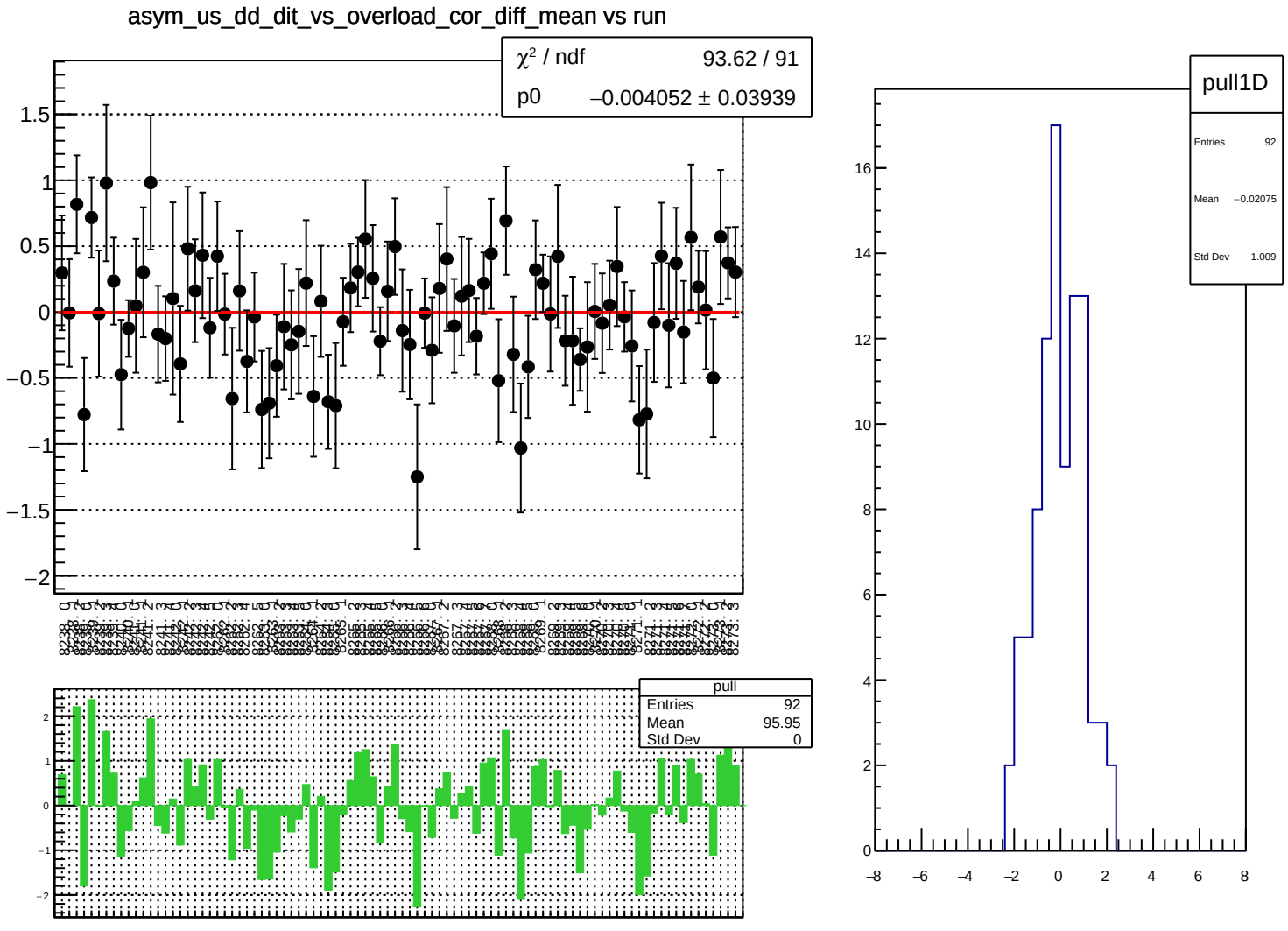

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.87 / 91
p0 0.02943 ± 0.02352
pull
Entries 92
Mean 22.8
Std Dev 0

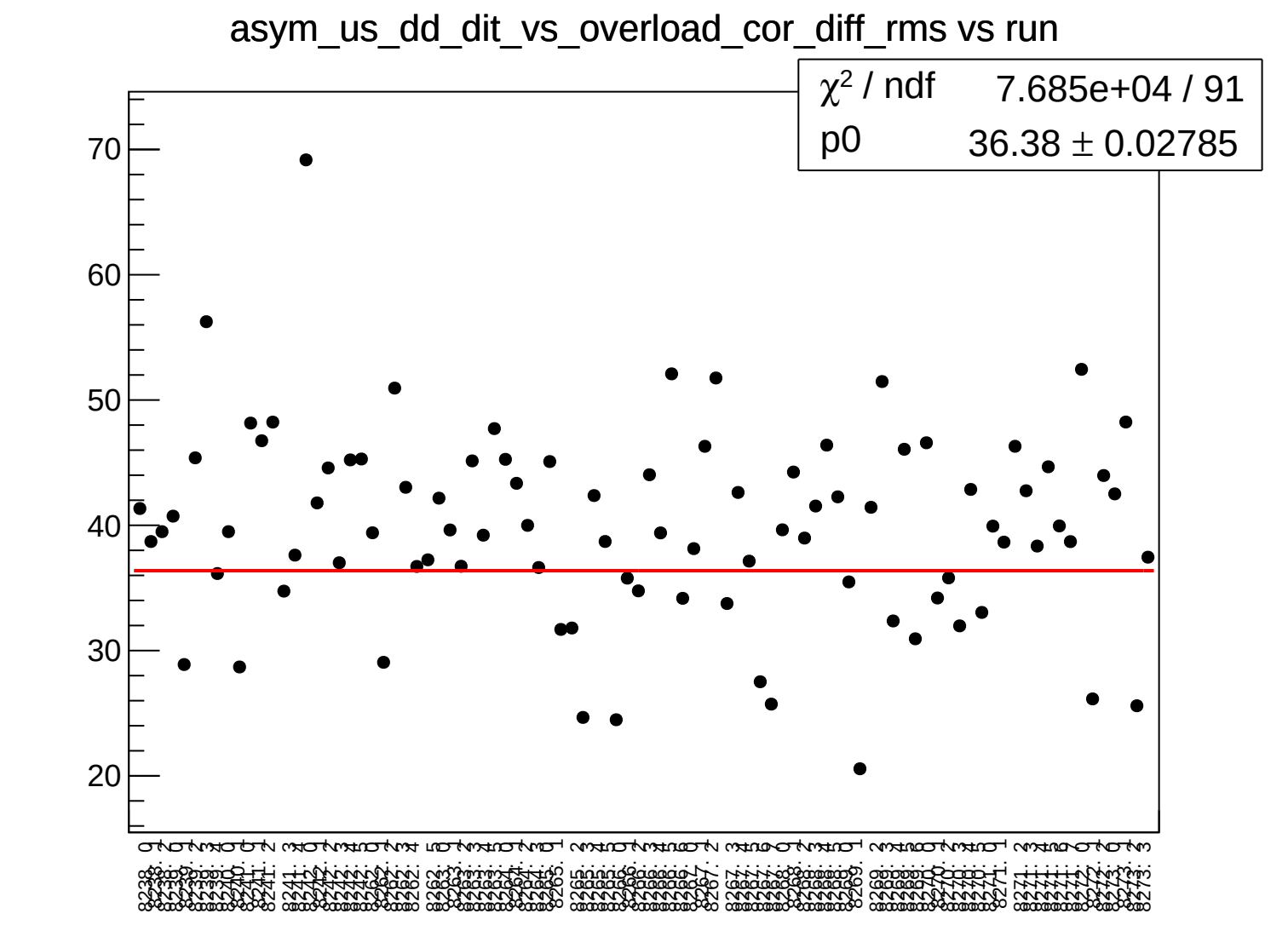

pull1D
Entries 92
Mean −0.01936
Std Dev 0.9198

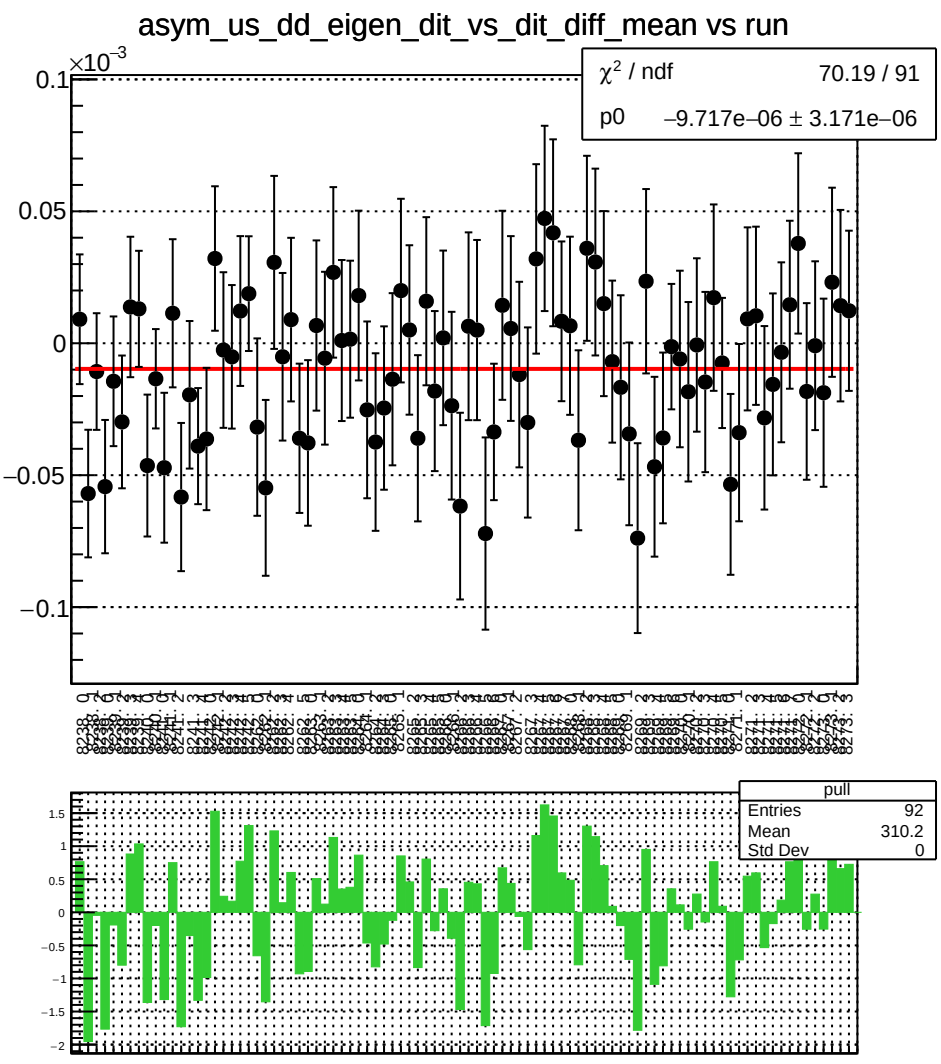

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.633e+05 / 91
p0 21.17 ± 0.01663
50
40
30
20
10

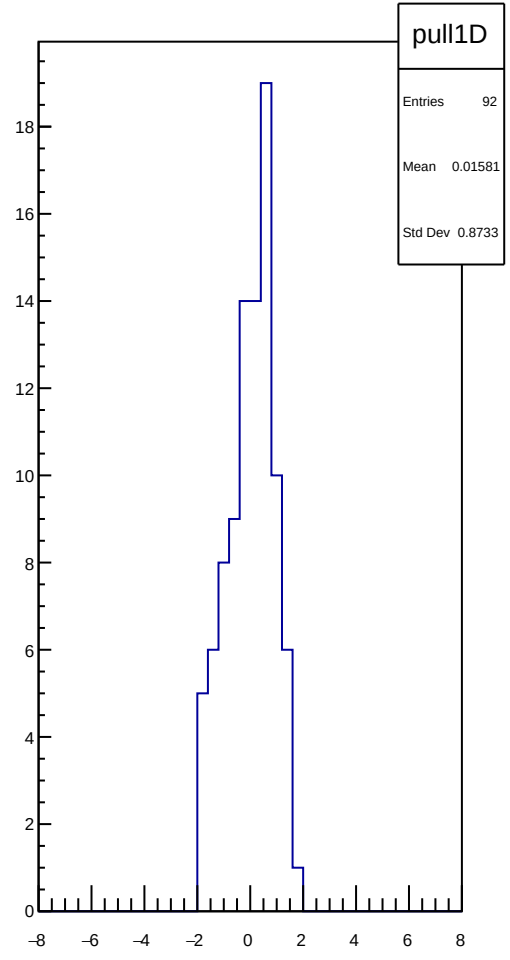

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.87 / 91
p0 0.02943 ± 0.02352
pull
Entries 92
Mean 22.8
Std Dev 0
pull1D
Entries 92
Mean −0.01936
Std Dev 0.9198

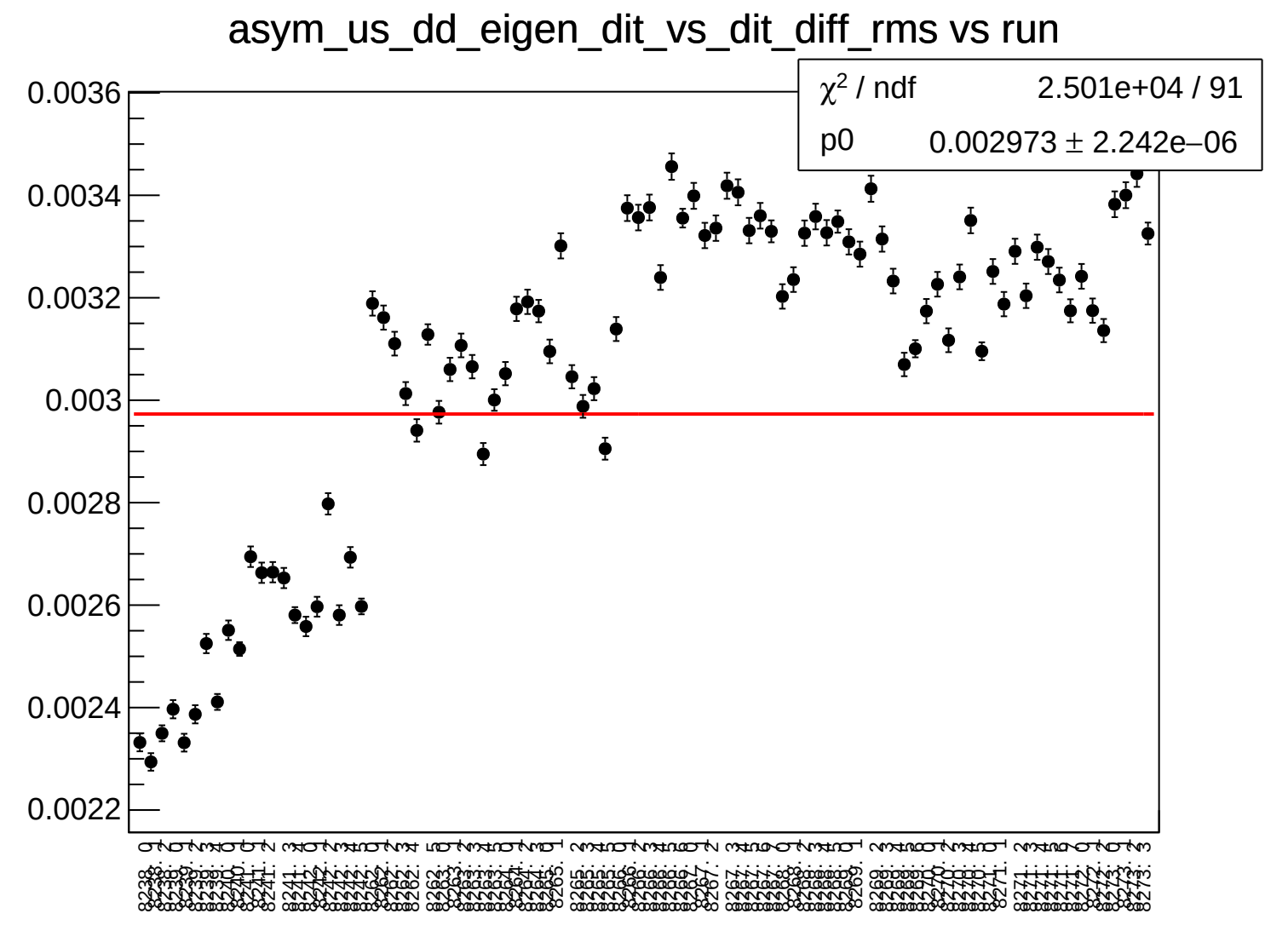

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.633e+05 / 91
p0 21.17 ± 0.01663
50
40
30
20
10

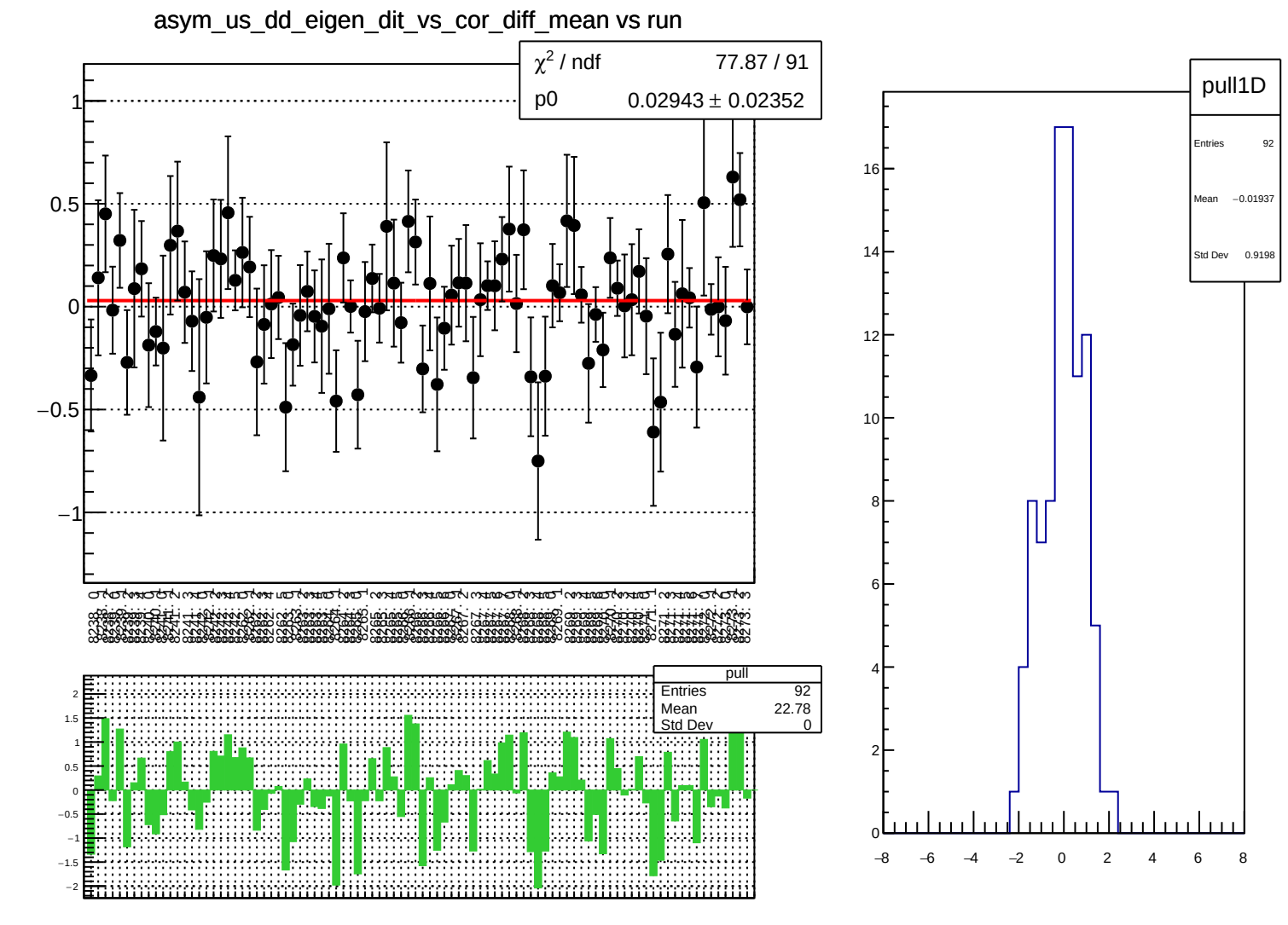

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 93.62 / 91
p0 −0.004052 ± 0.03939
pull
Entries 92
Mean 95.95
Std Dev 0
pull1D
Entries 92
Mean −0.02075
Std Dev 1.009

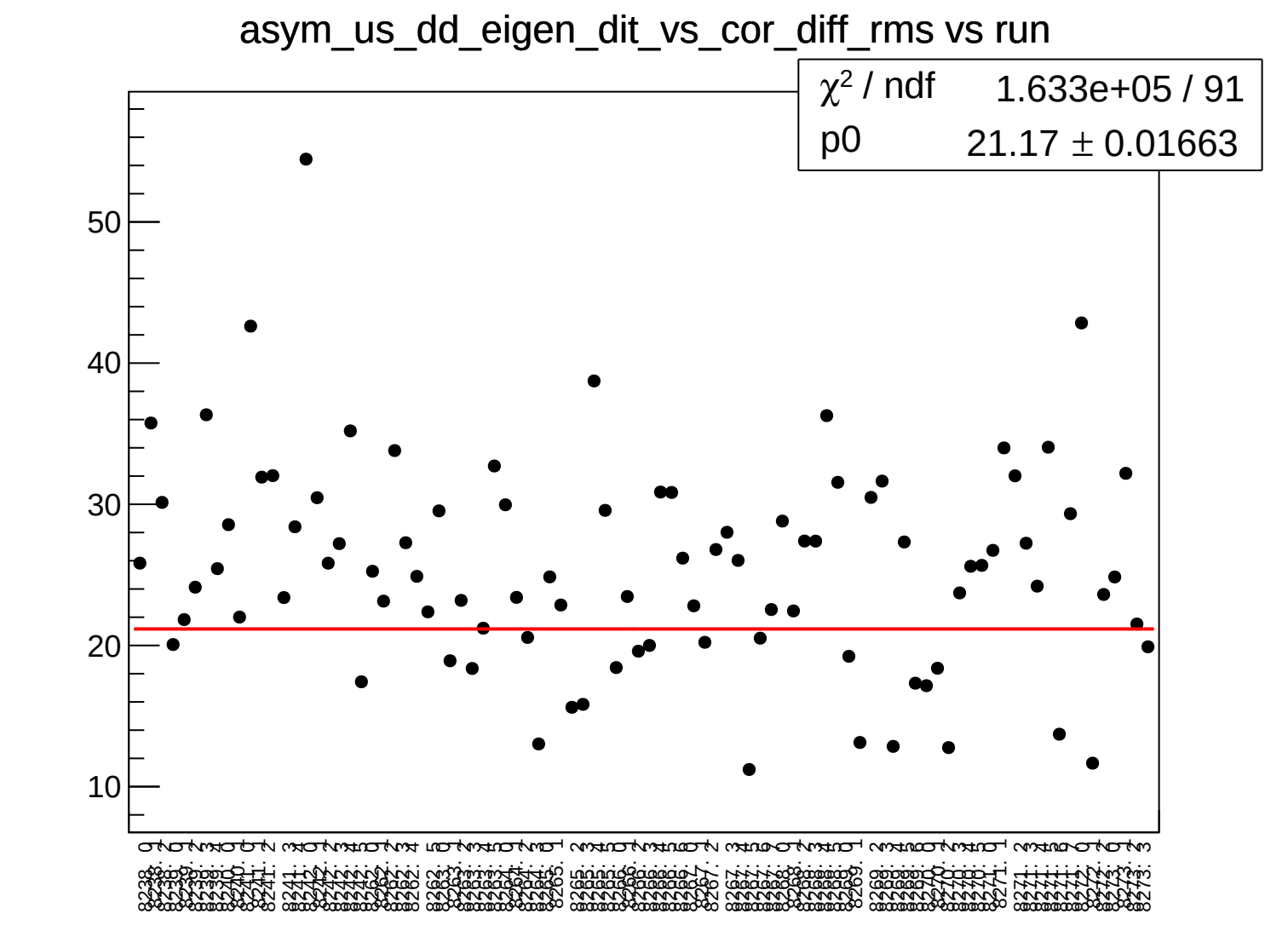

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
$\chi^2$ / ndf 7.685e+04 / 91
p0 36.38 ± 0.02785
70
60
50
40
30
20

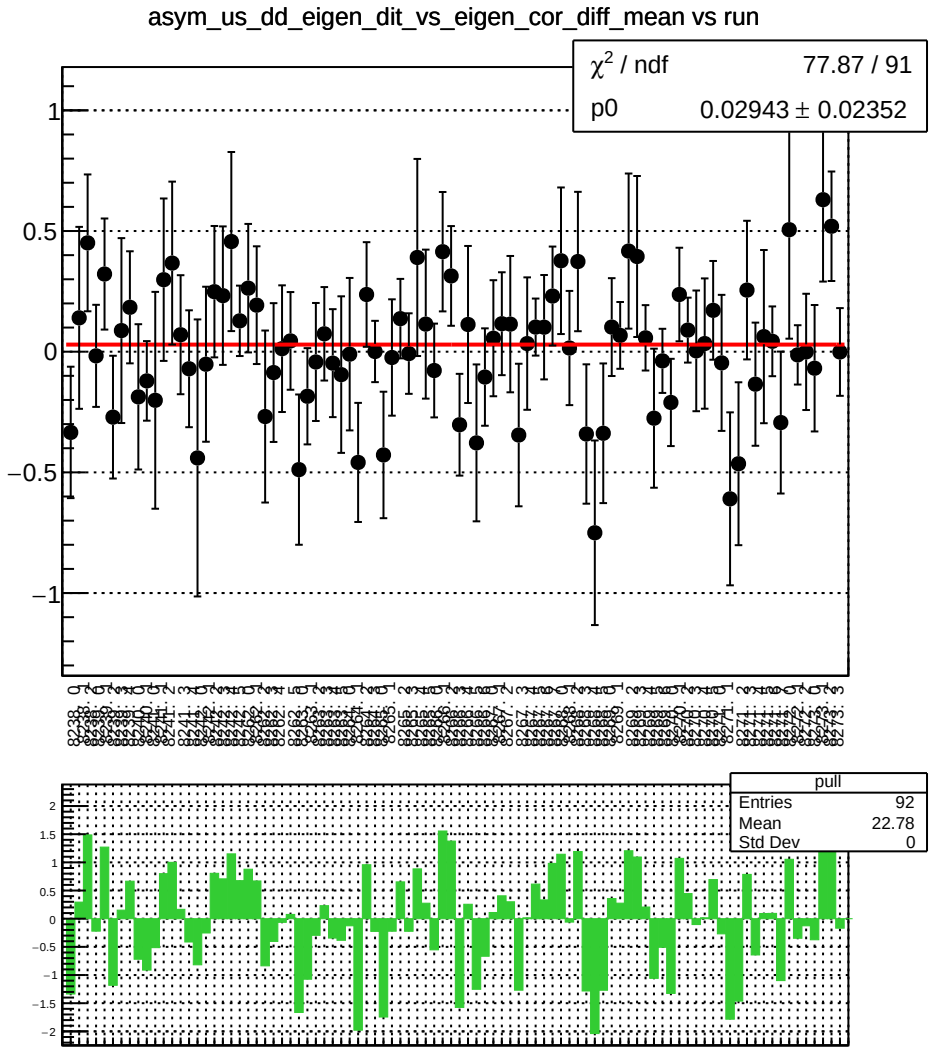

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.19 / 91
p0 −9.717e−06 ± 3.171e−06
pull
Entries 92
Mean 310.2
Std Dev 0

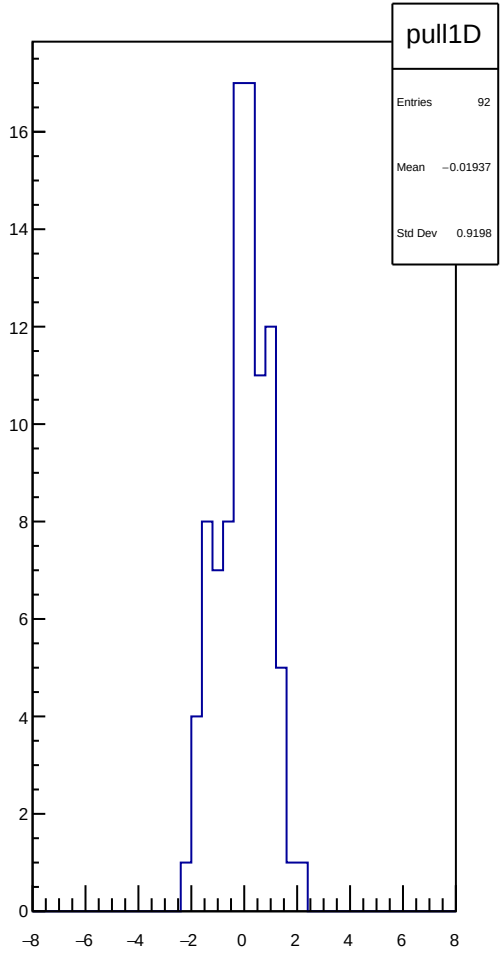

pull1D
Entries 92
Mean 0.01581
Std Dev 0.8733

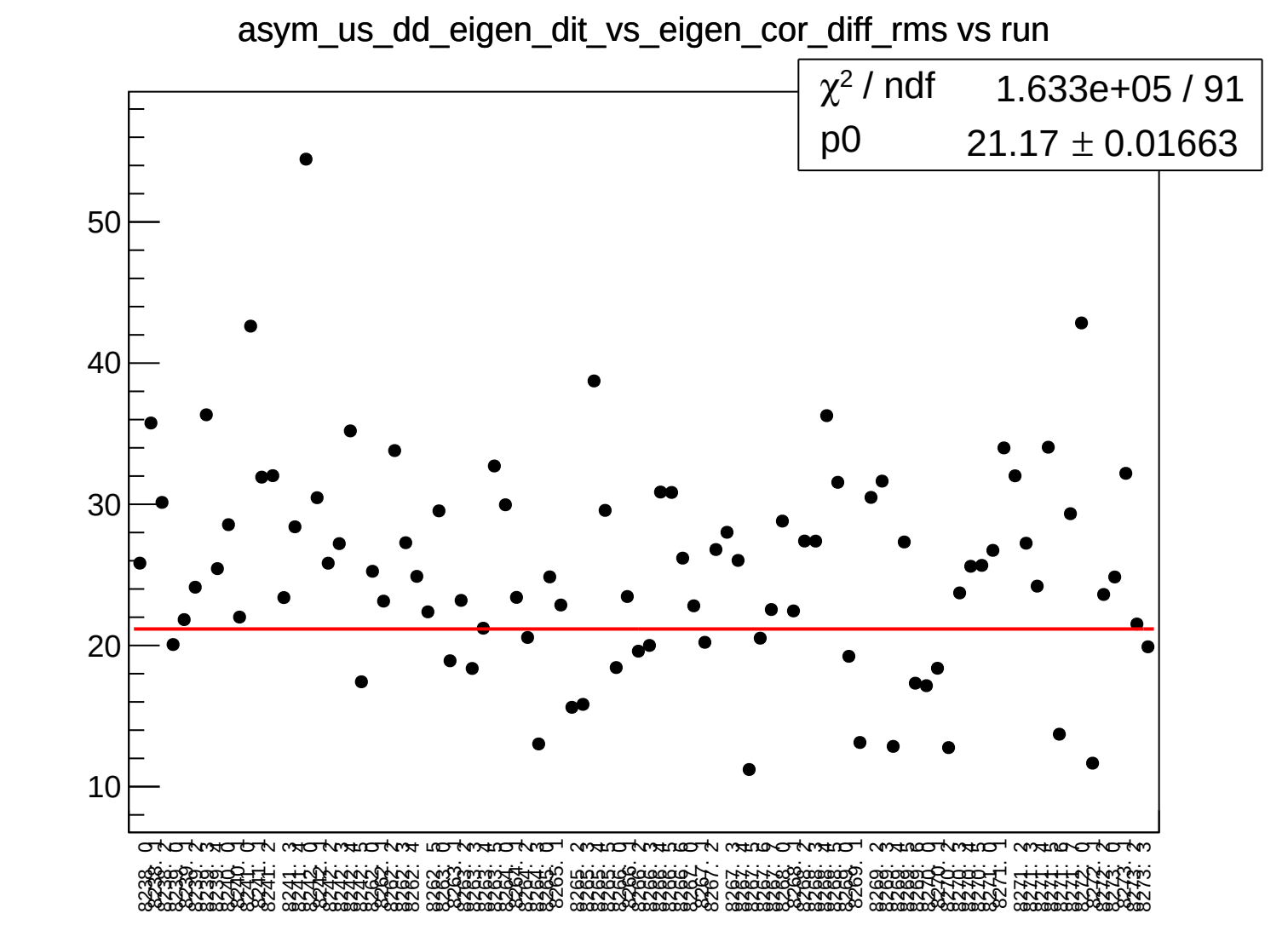

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.501e+04 / 91
p0 0.002973 ± 2.242e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

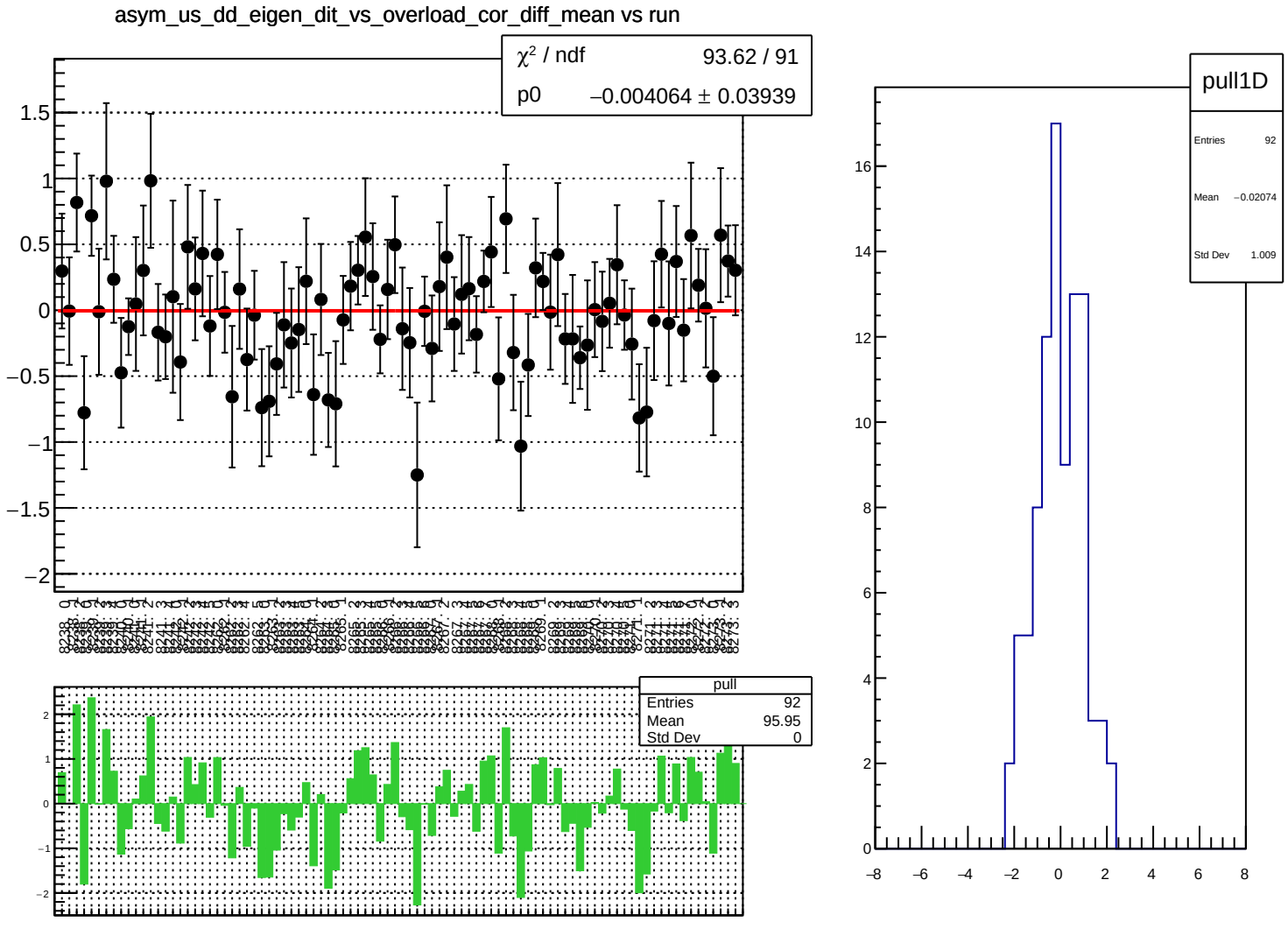

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.87 / 91
p0 0.02943 ± 0.02352
pull
Entries 92
Mean 22.78
Std Dev 0
pull1D
Entries 92
Mean −0.01937
Std Dev 0.9198

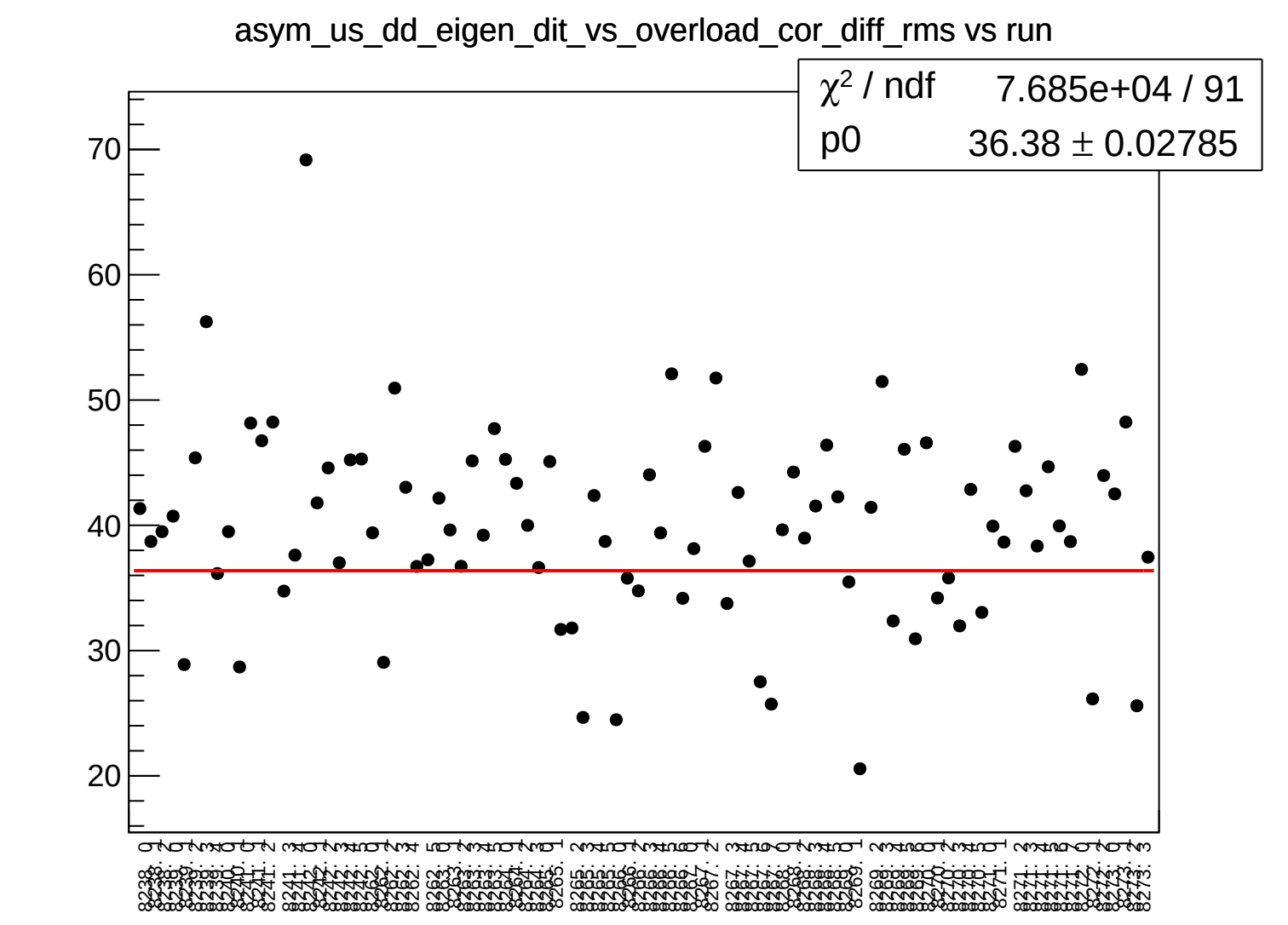

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.633e+05 / 91
p0 21.17 ± 0.01663
50
40
30
20
10

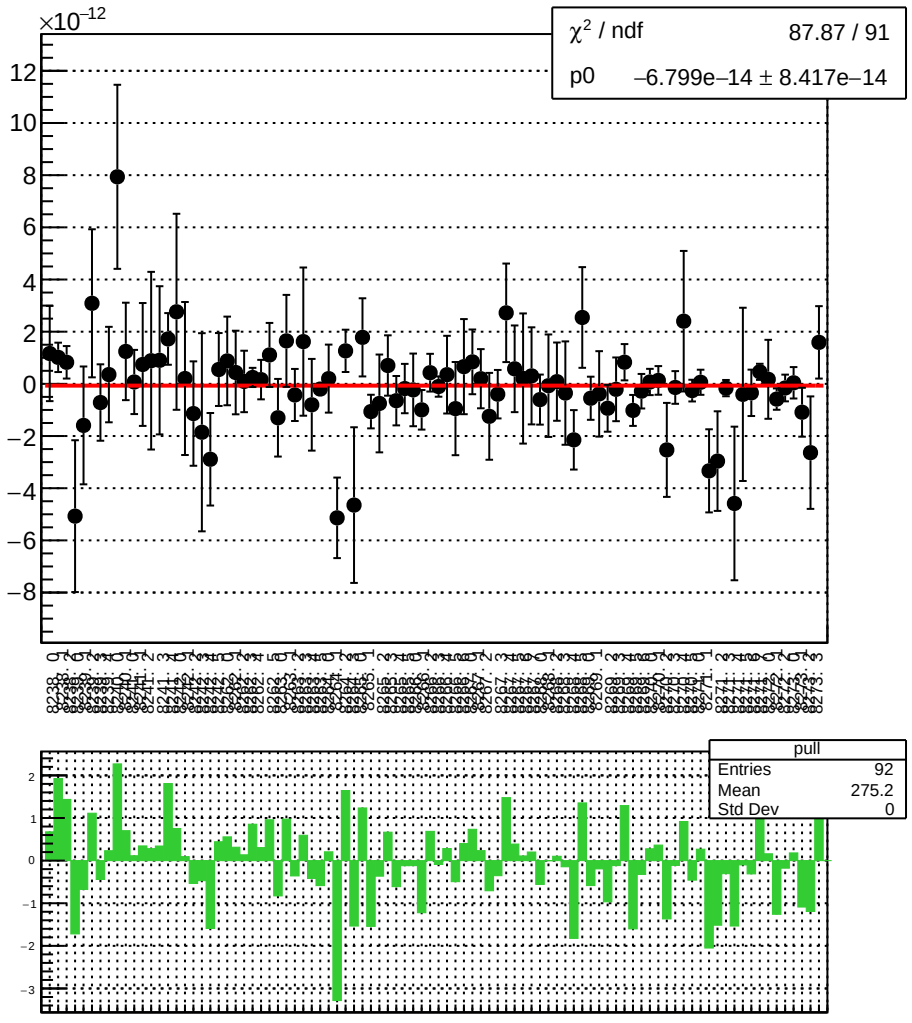

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.87 / 91
p0 0.02943 ± 0.02352
pull
Entries 92
Mean 22.78
Std Dev 0

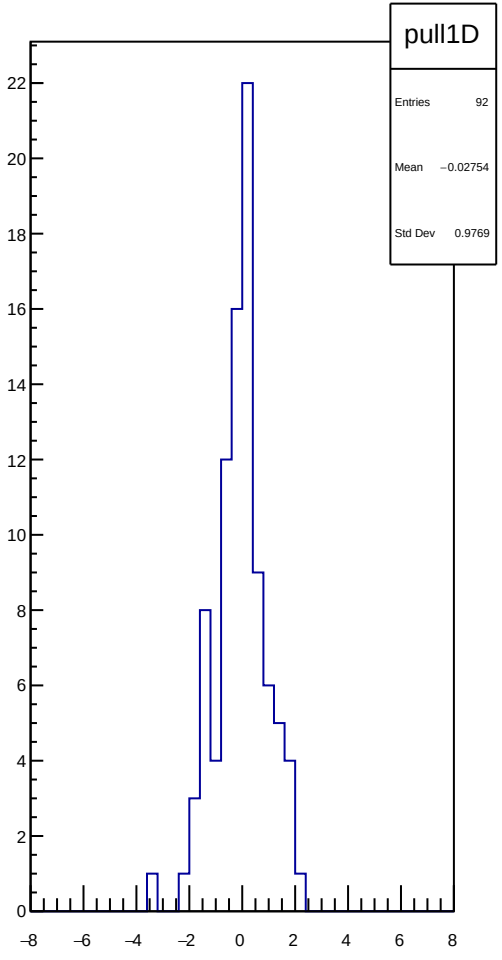

pull1D
Entries 92
Mean −0.01937
Std Dev 0.9198

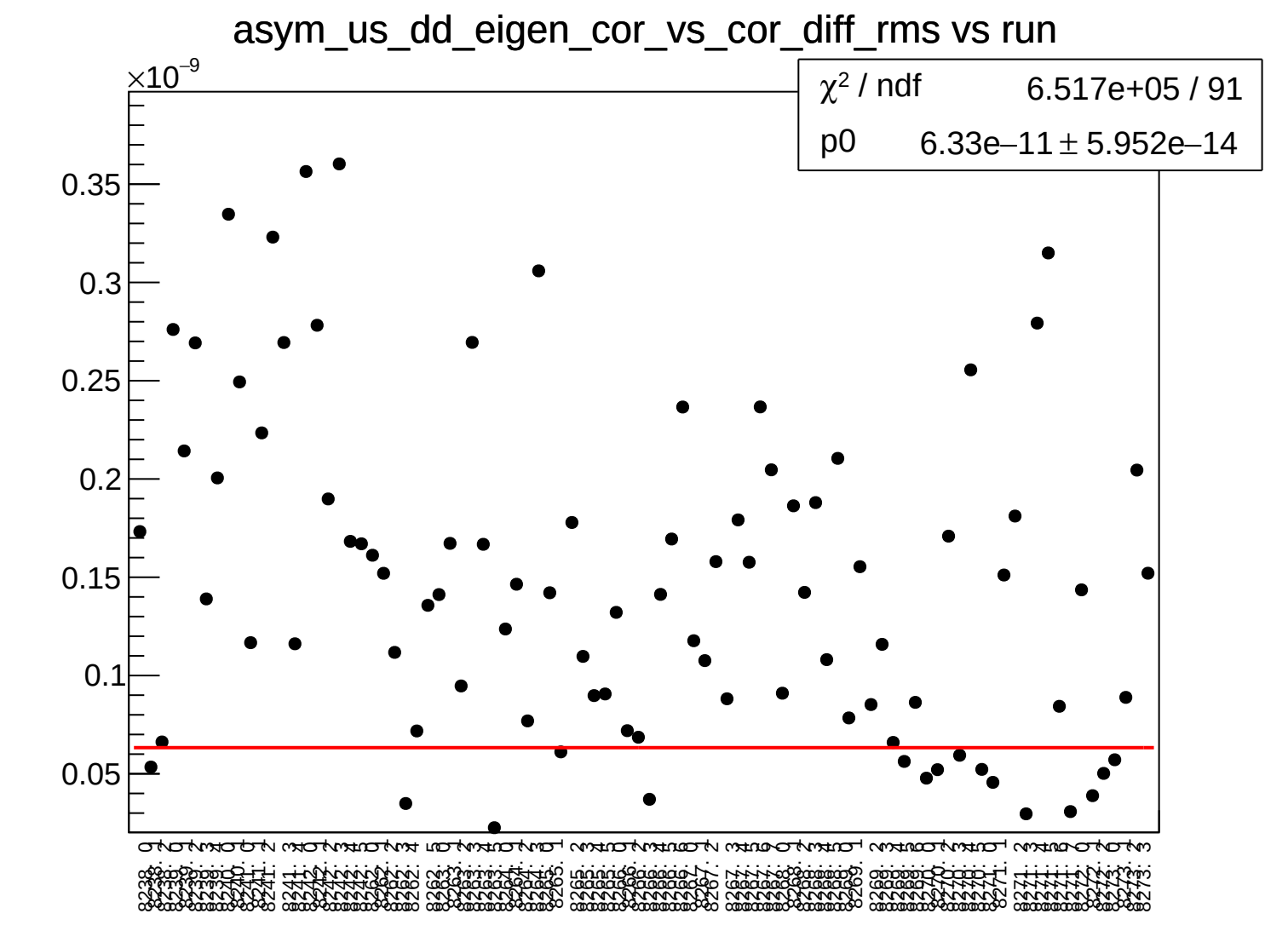

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 1.633e+05 / 91
p0 21.17 ± 0.01663
50
40
30
20
10

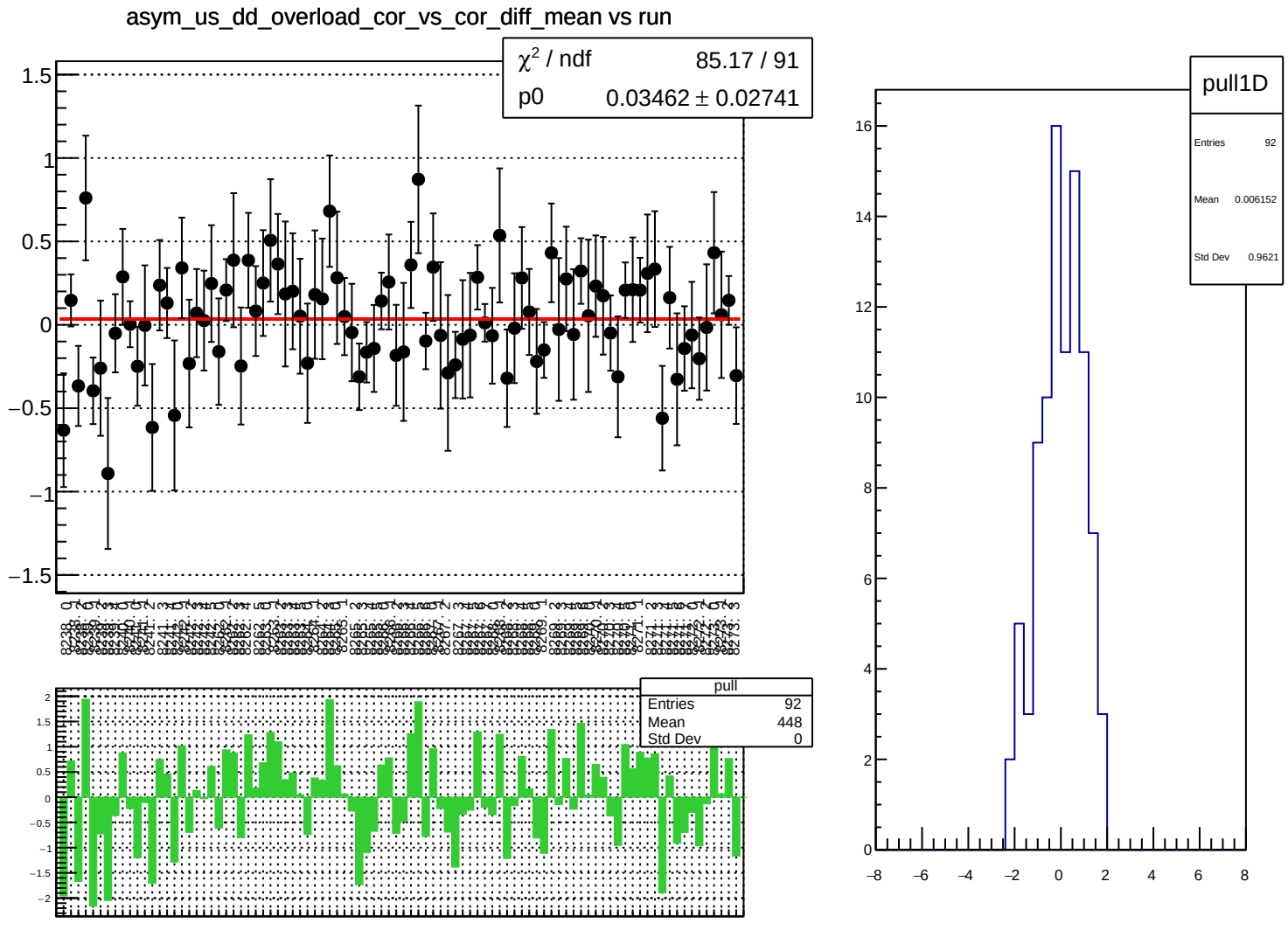

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 93.62 / 91
p0 −0.004064 ± 0.03939
pull
Entries 92
Mean 95.95
Std Dev 0
pull1D
Entries 92
Mean −0.02074
Std Dev 1.009

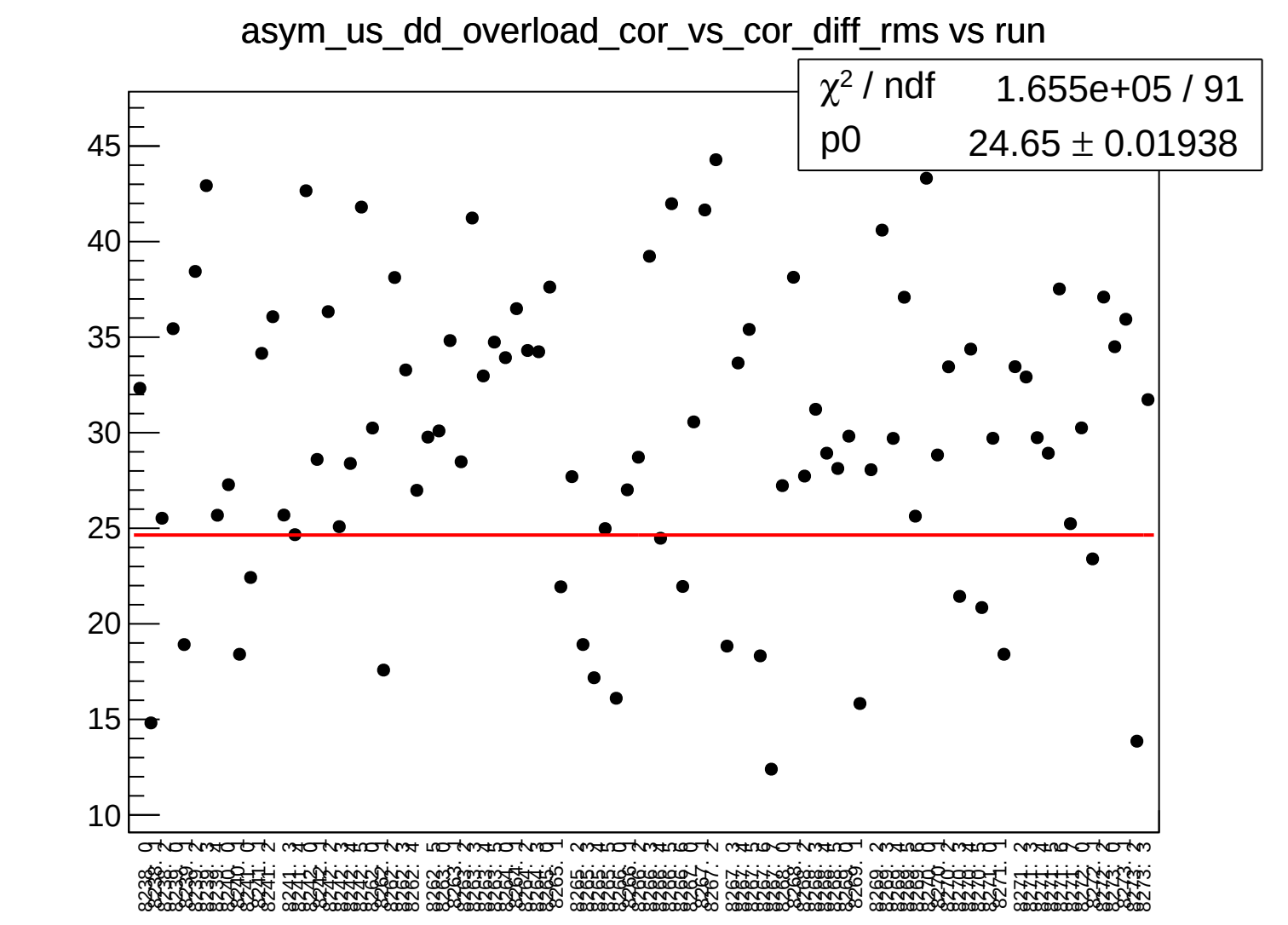

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
$\chi^2$ / ndf 7.685e+04 / 91
p0 36.38 ± 0.02785
70
60
50
40
30
20

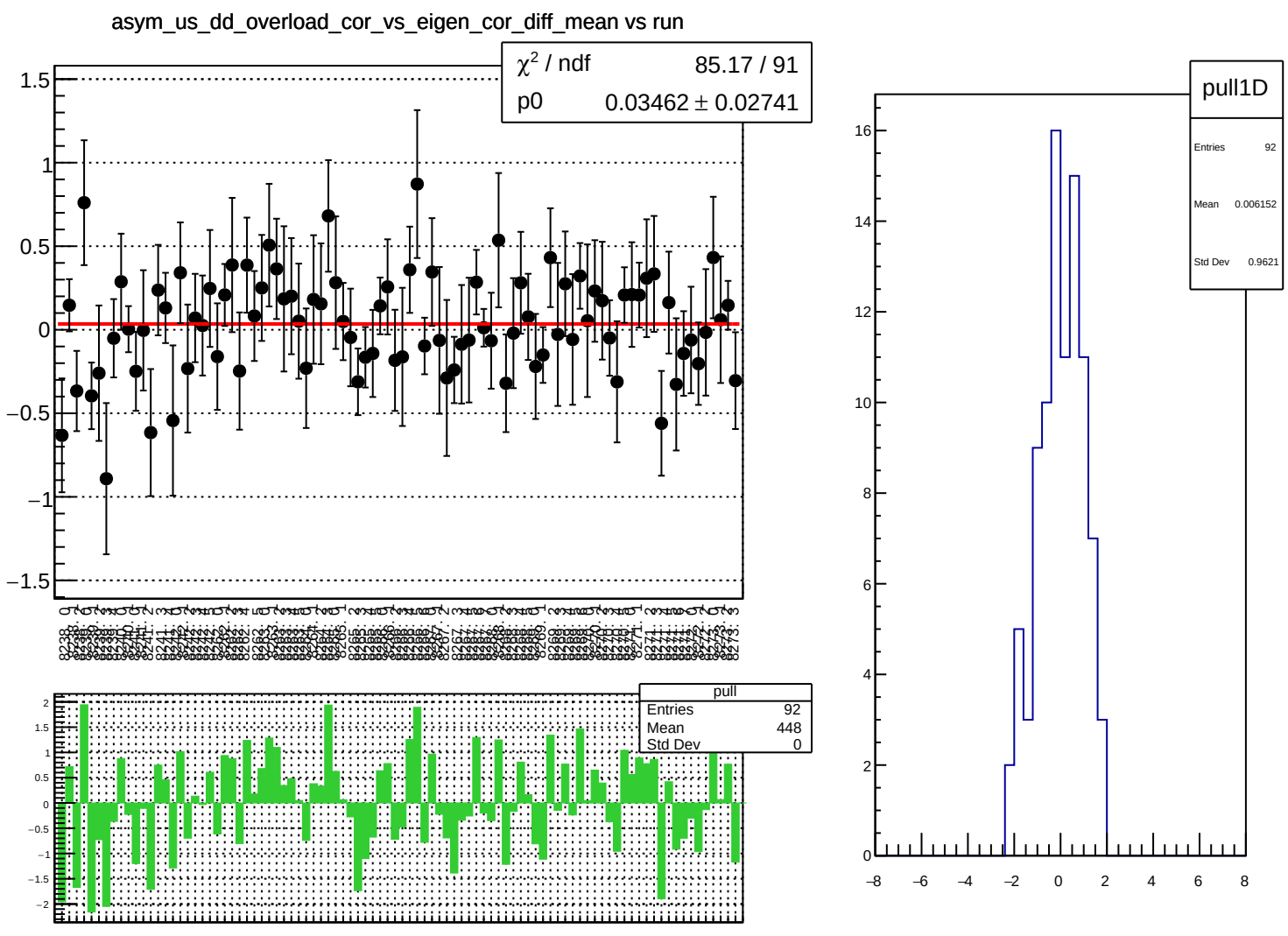

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.87 / 91
p0 −6.799e−14 ± 8.417e−14
pull
Entries 92
Mean 275.2
Std Dev 0

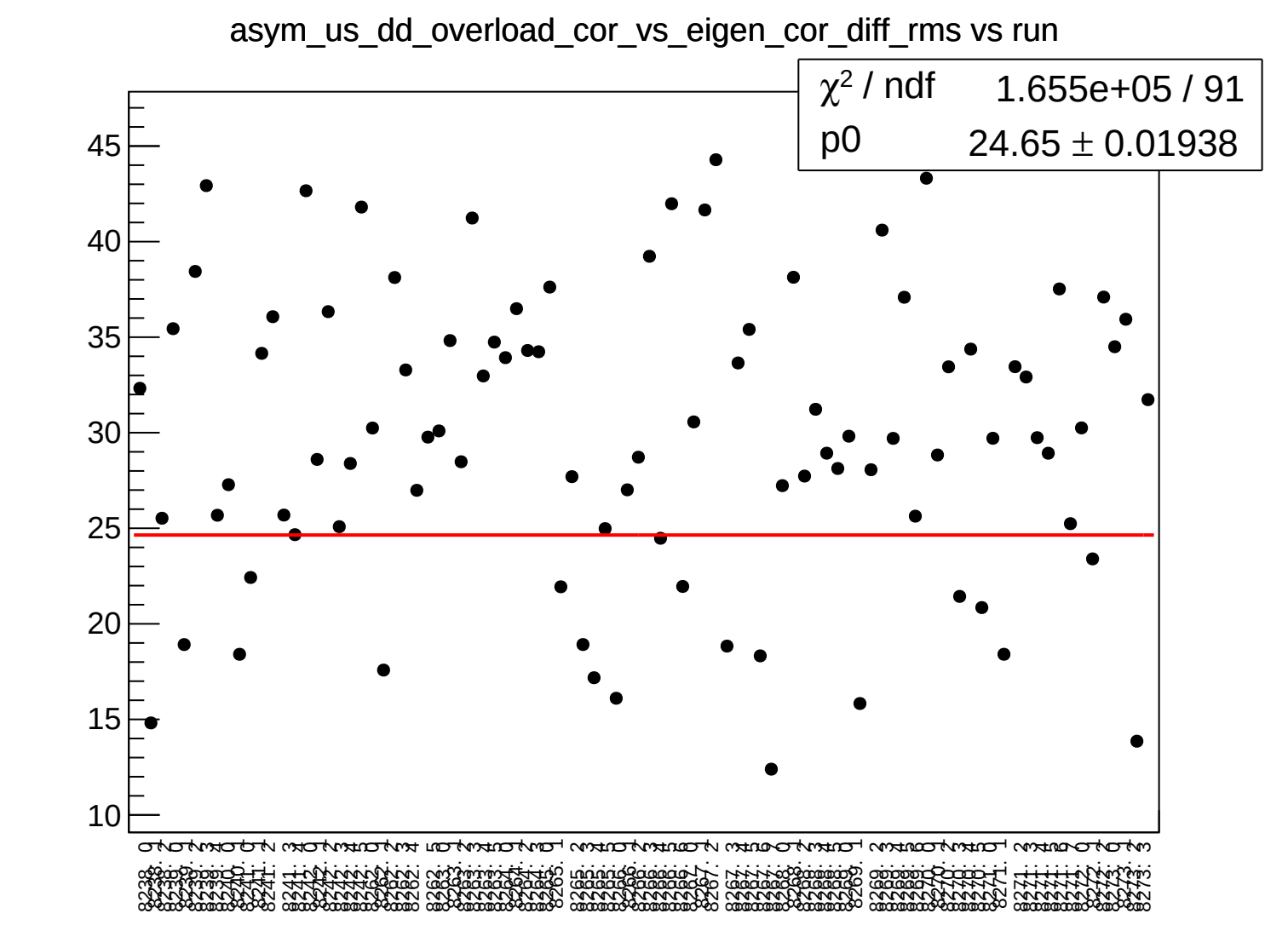

pull1D
Entries 92
Mean −0.02754
Std Dev 0.9769

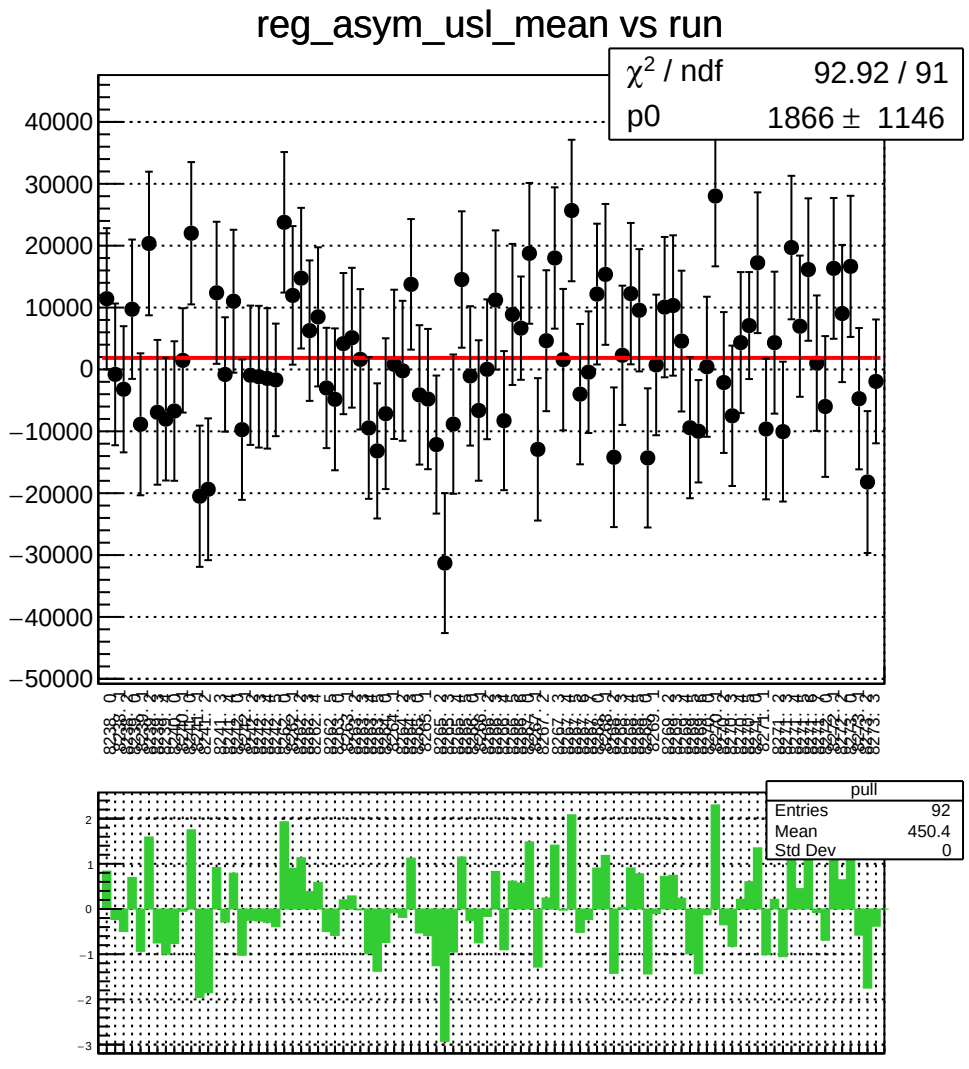

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.517e+05 / 91
p0 6.33e−11 ± 5.952e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

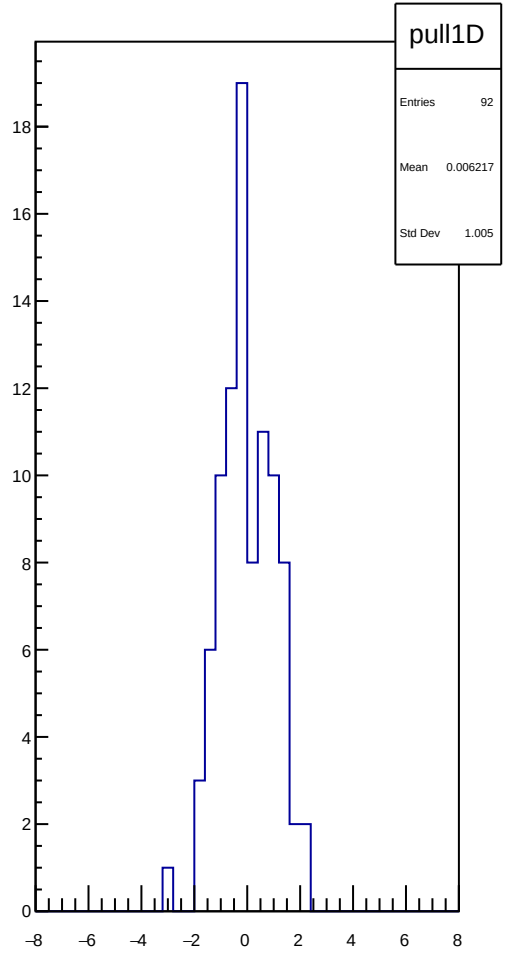

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 85.17 / 91
p0 0.03462 ± 0.02741
pull
Entries 92
Mean 448
Std Dev 0
pull1D
Entries 92
Mean 0.006152
Std Dev 0.9621

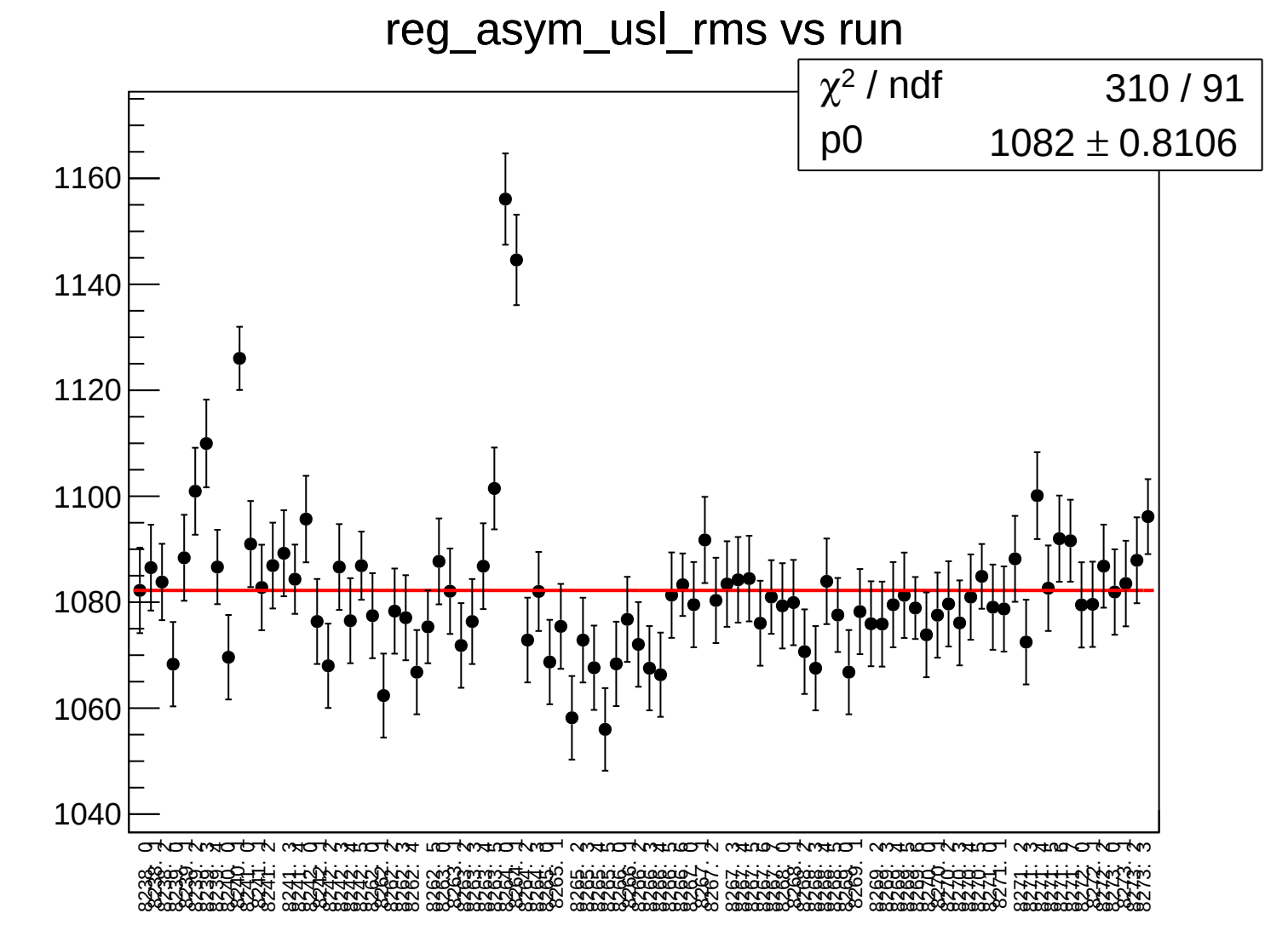

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.655e+05 / 91
p0 24.65 ± 0.01938
45
40
35
30
25
20
15
10

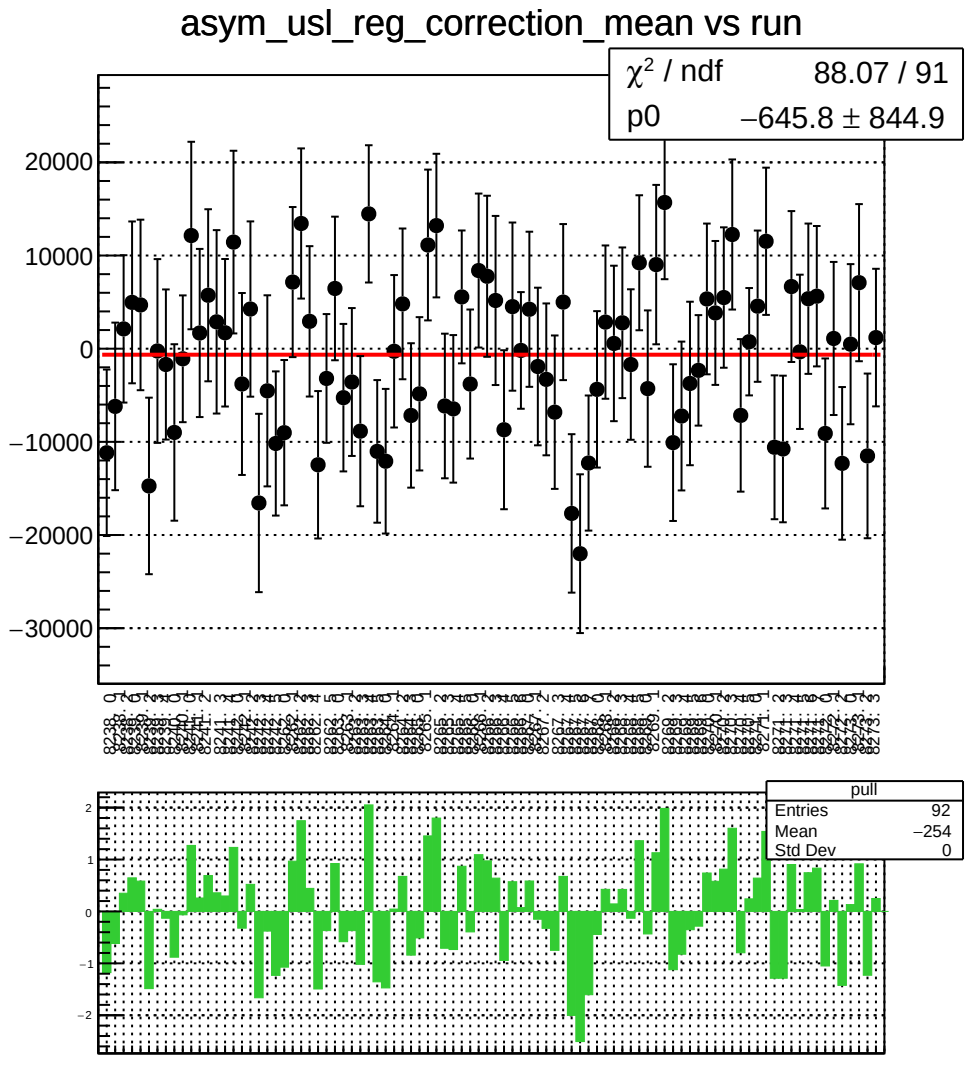

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.17 / 91
p0 0.03462 ± 0.02741
pull
Entries 92
Mean 448
Std Dev 0
pull1D
Entries 92
Mean 0.006152
Std Dev 0.9621

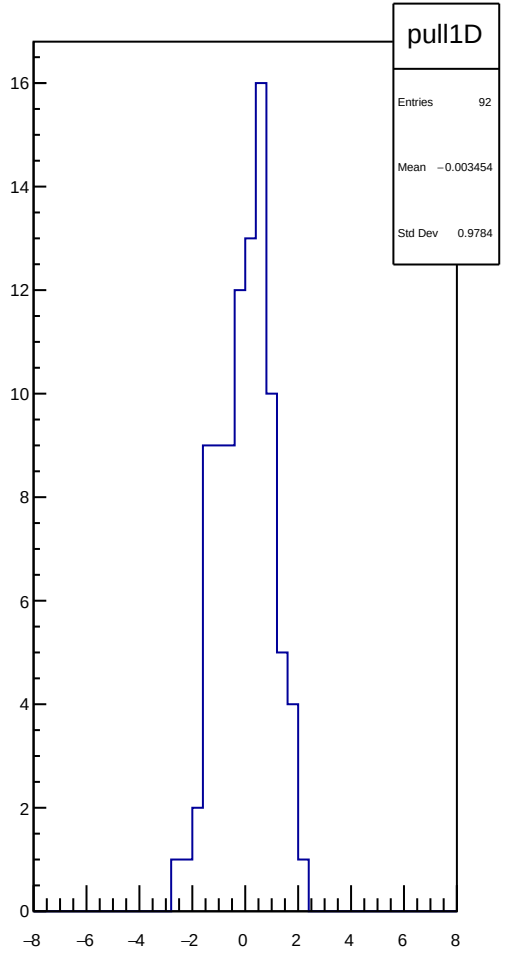

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.655e+05 / 91
p0 24.65 ± 0.01938
45
40
35
30
25
20
15
10

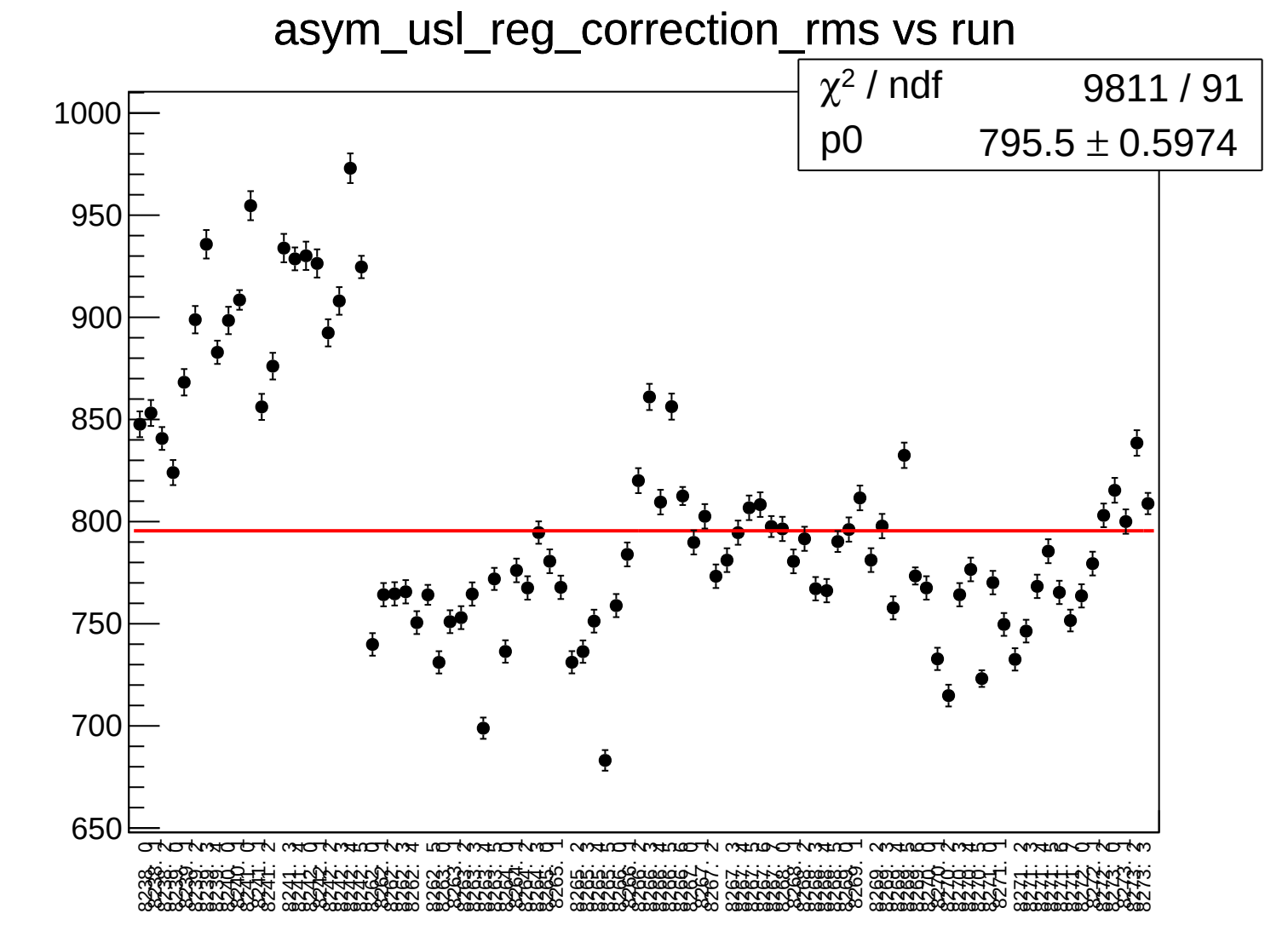

reg_asym_usl_mean vs run
χ² / ndf 92.92 / 91
p0 1866 ± 1146
pull
Entries 92
Mean 450.4
Std Dev 0

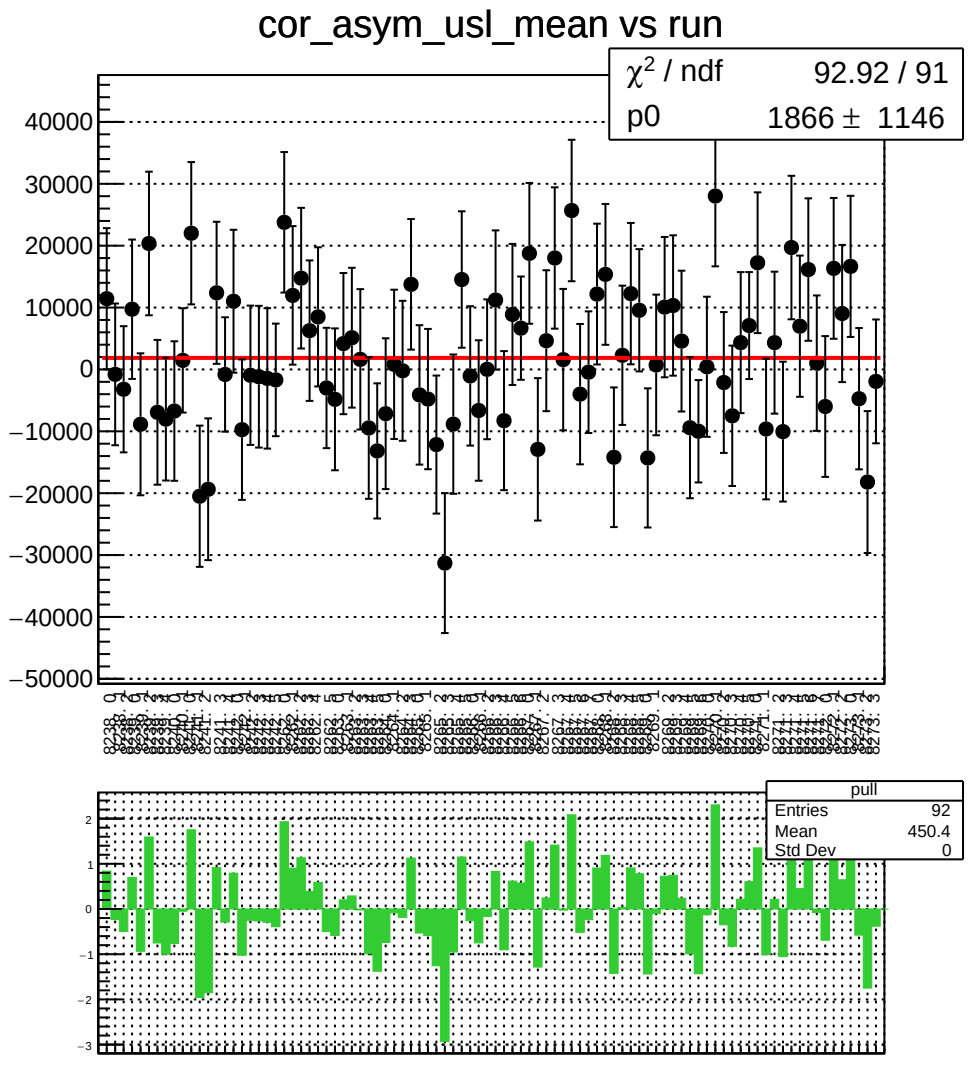

pull1D
Entries 92
Mean 0.006217
Std Dev 1.005

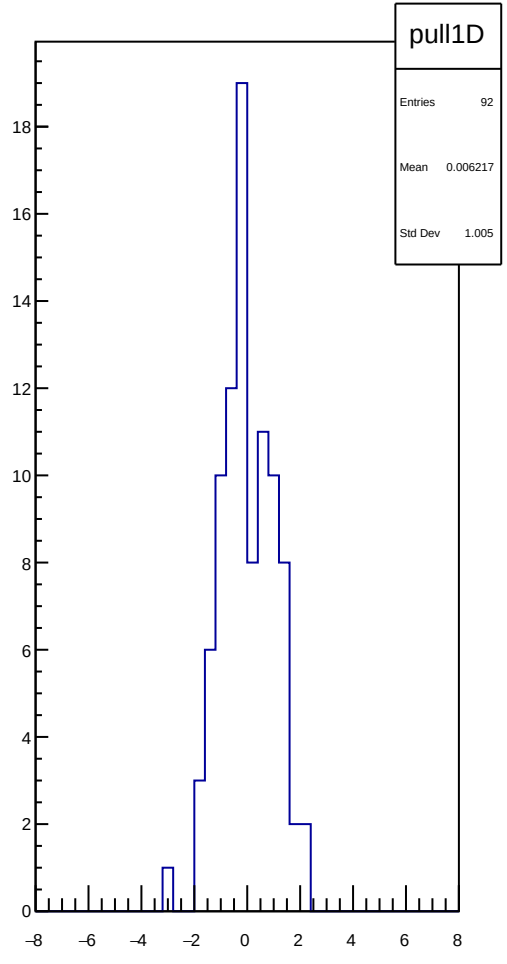

reg_asym_usl_rms vs run
χ² / ndf 310 / 91
p0 1082 ± 0.8106
1160
1140
1120
1100
1080
1060
1040

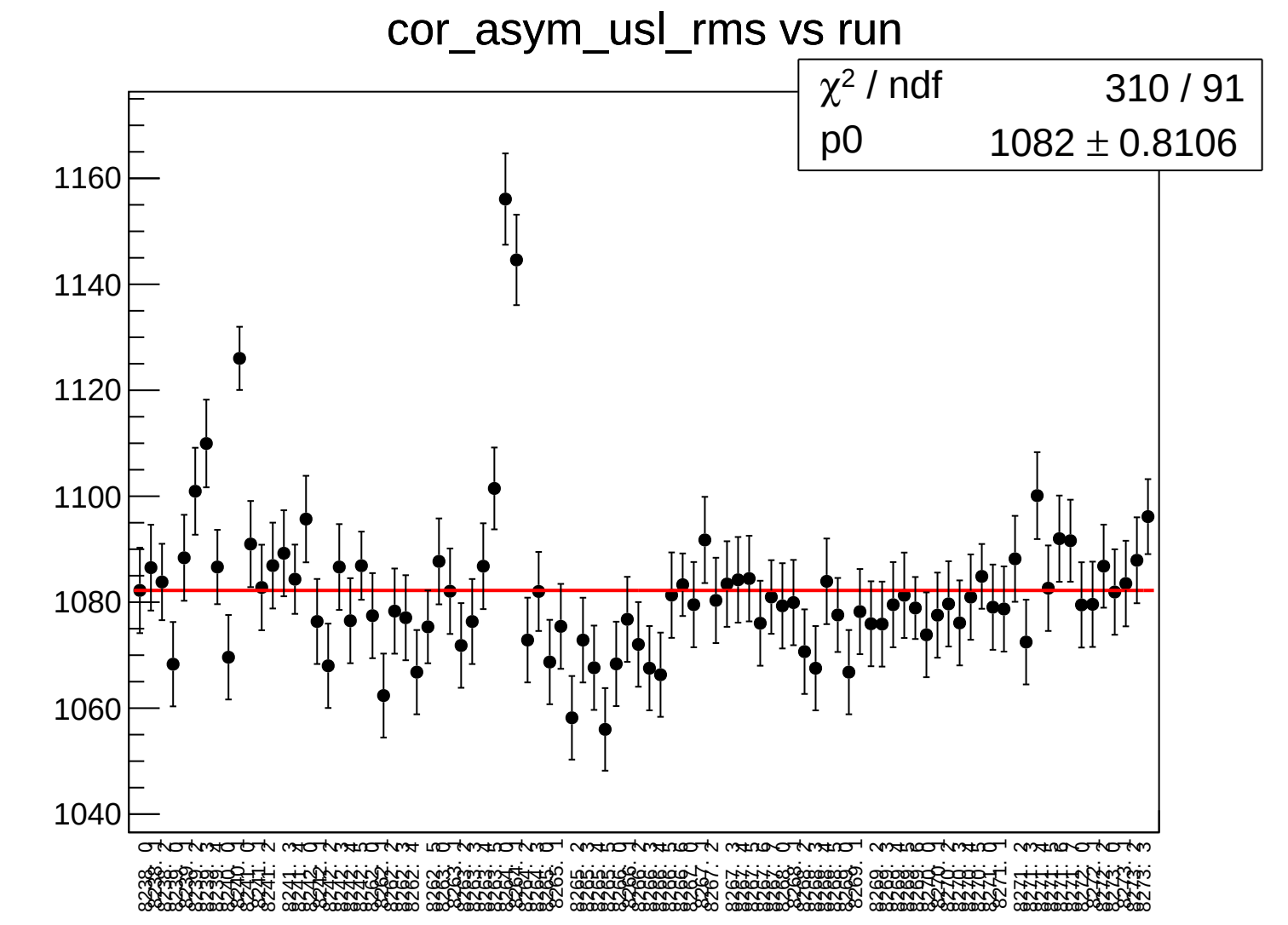

asym_usl_reg_correction_mean vs run
χ² / ndf 88.07 / 91
p0 −645.8 ± 844.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −254
Std Dev 0
2
1
0
−1
−2

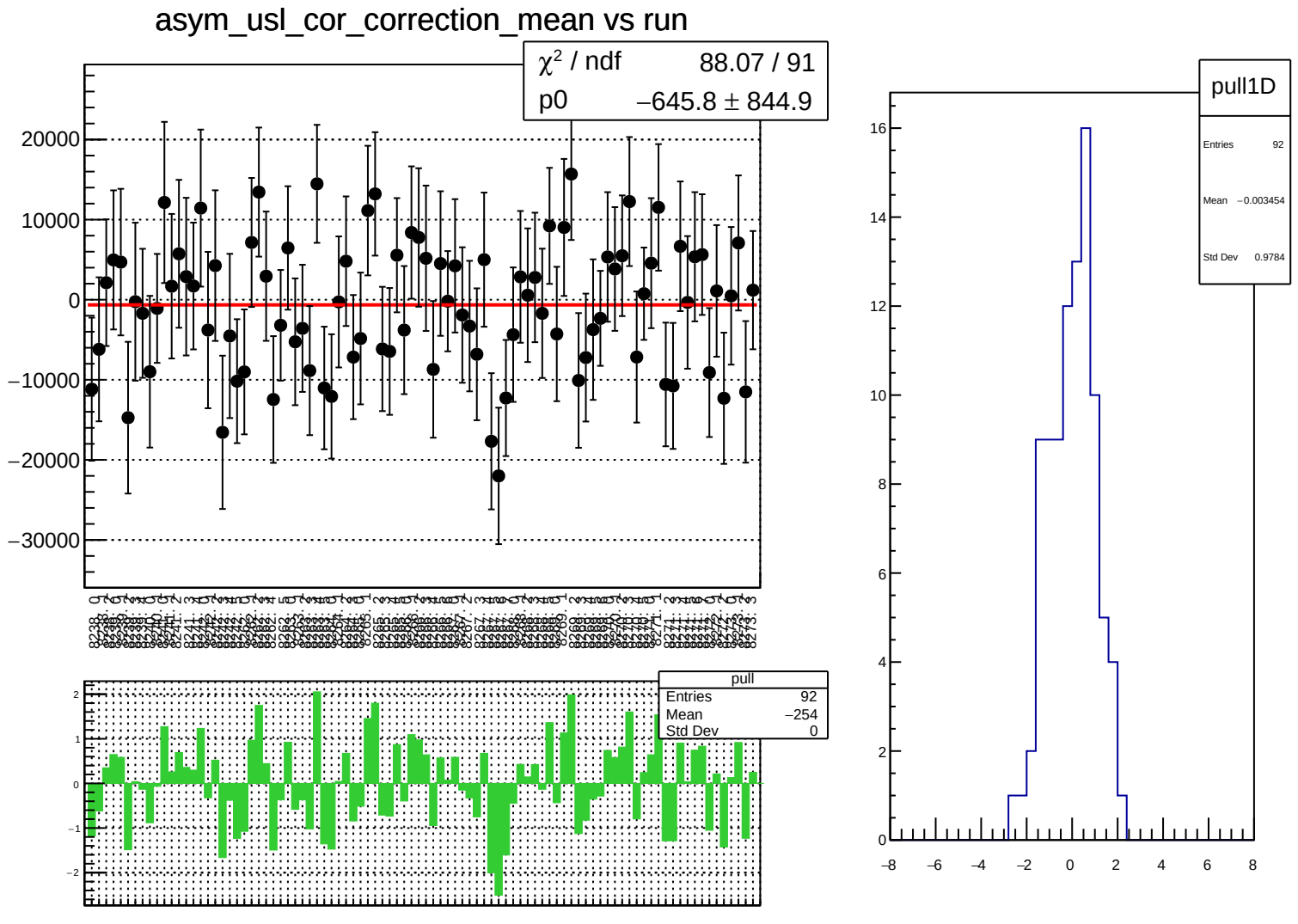

pull1D
Entries 92
Mean −0.003454
Std Dev 0.9784
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

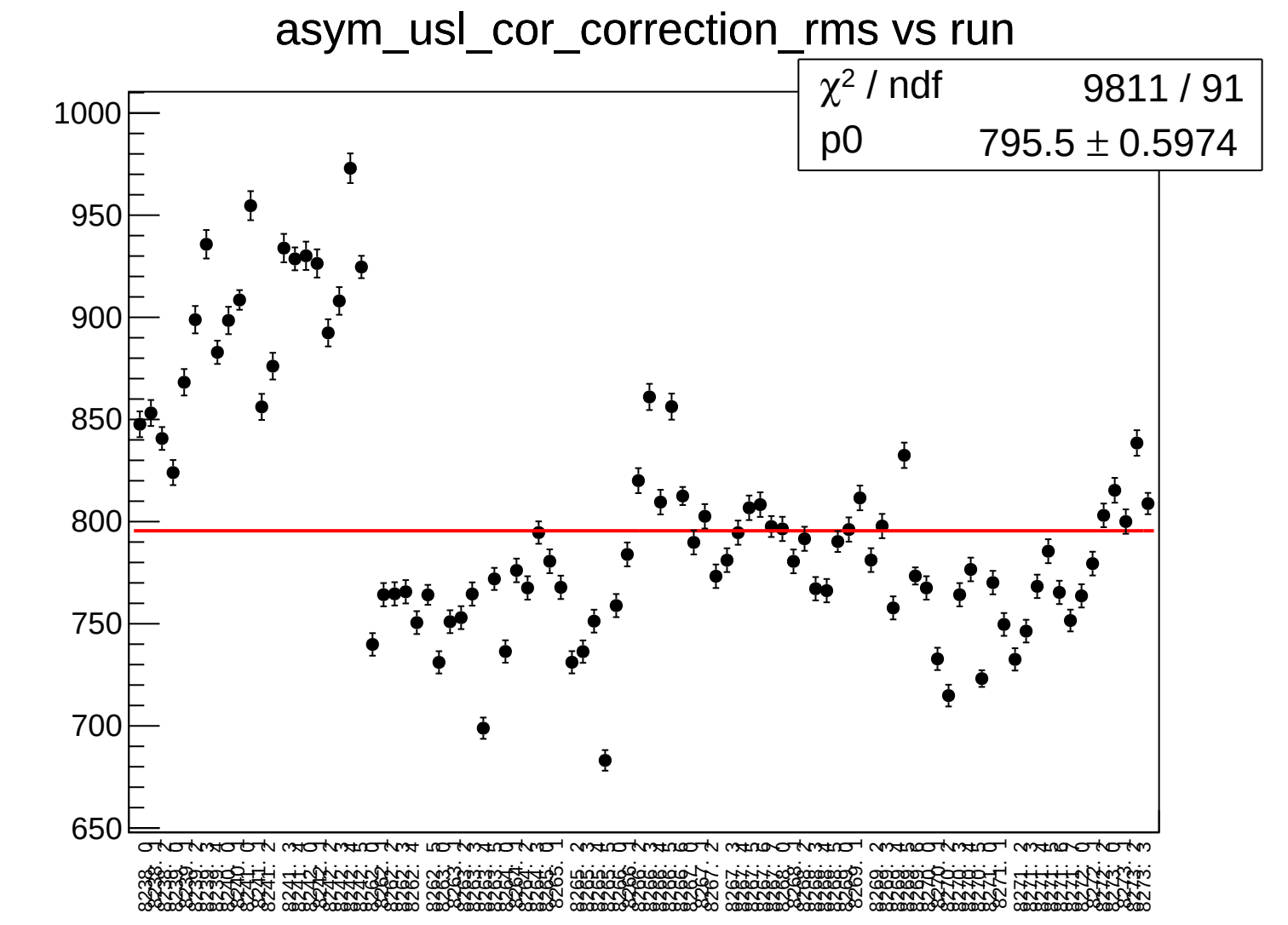

asym_usl_reg_correction_rms vs run
χ² / ndf 9811 / 91
p0 795.5 ± 0.5974
1000
950
900
850
800
750
700
650

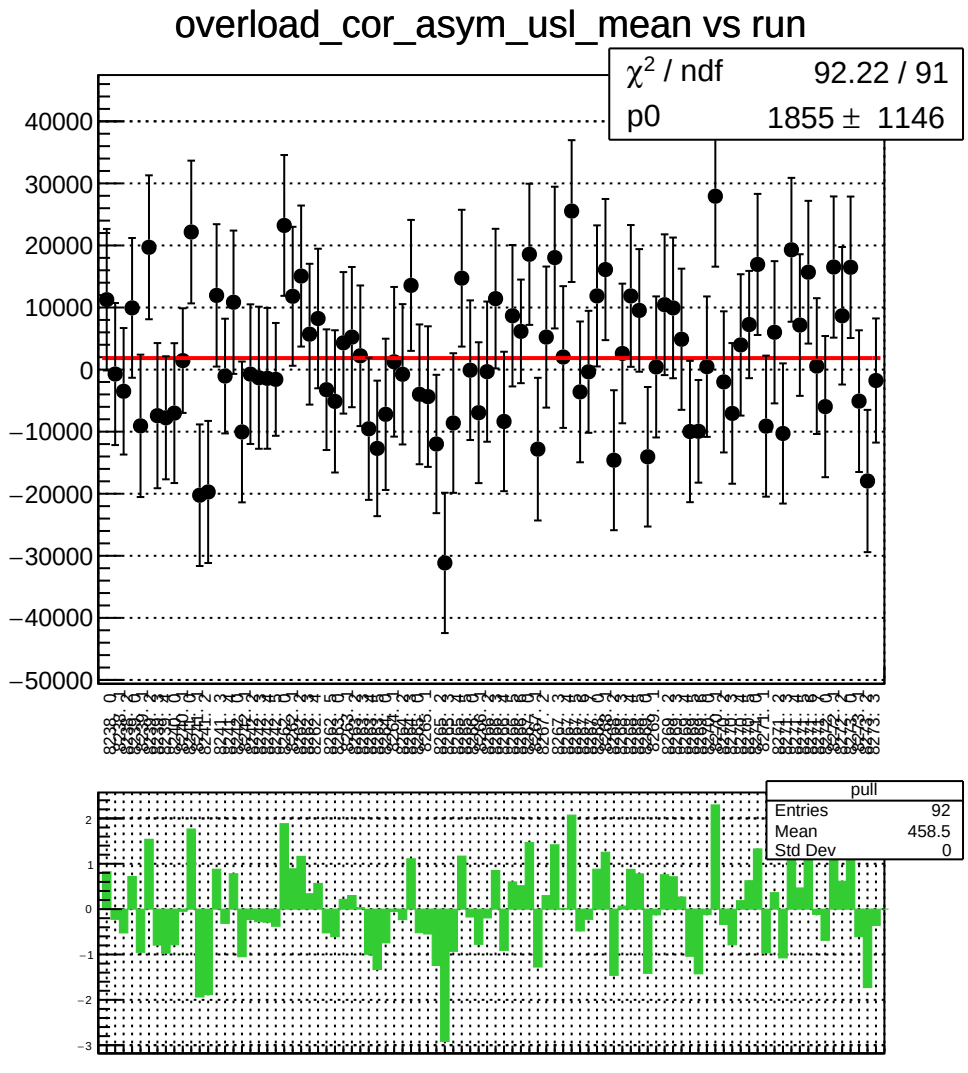

cor_asym_usl_mean vs run
χ² / ndf 92.92 / 91
p0 1866 ± 1146
pull
Entries 92
Mean 450.4
Std Dev 0

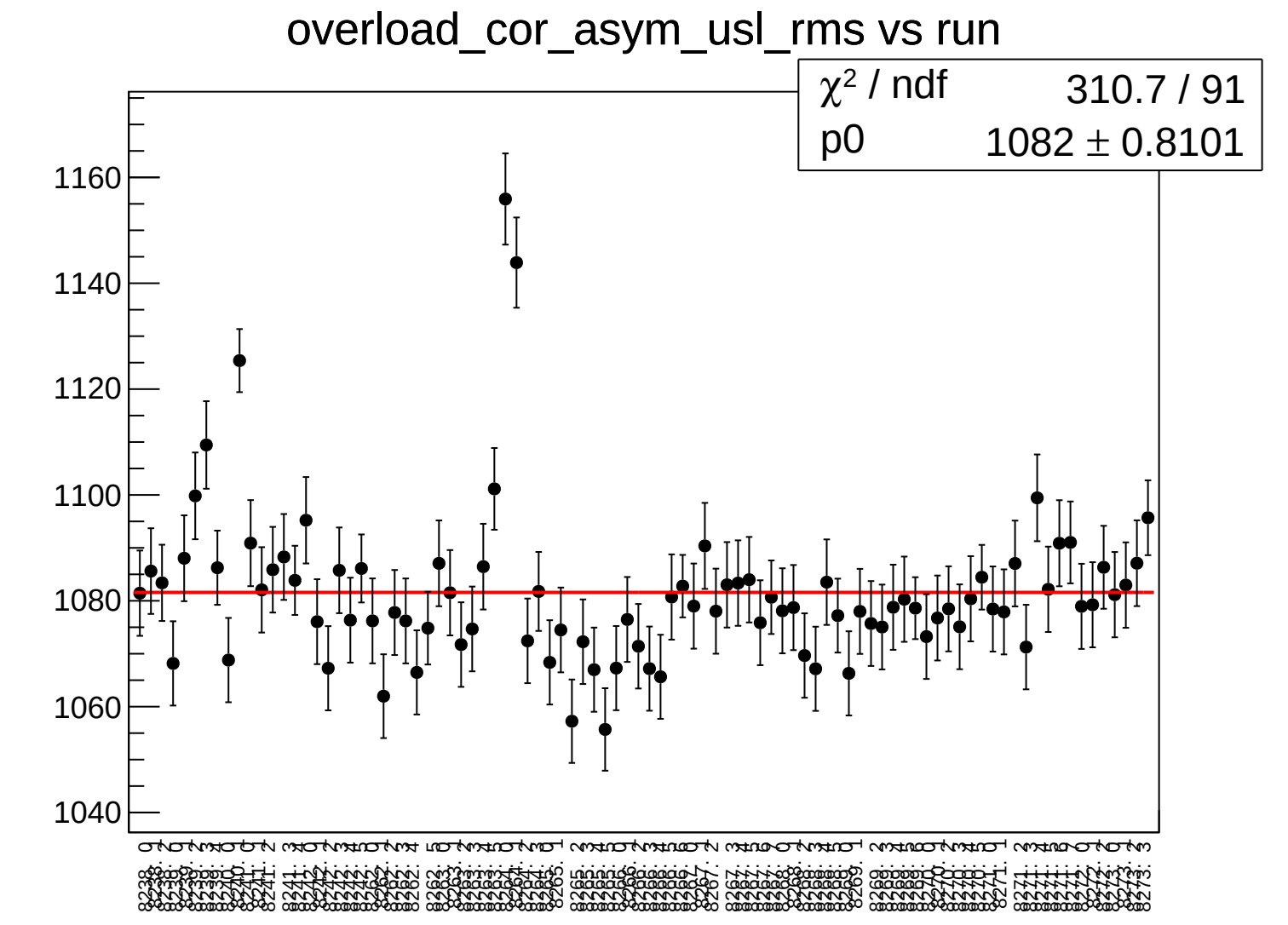

pull1D
Entries 92
Mean 0.006217
Std Dev 1.005

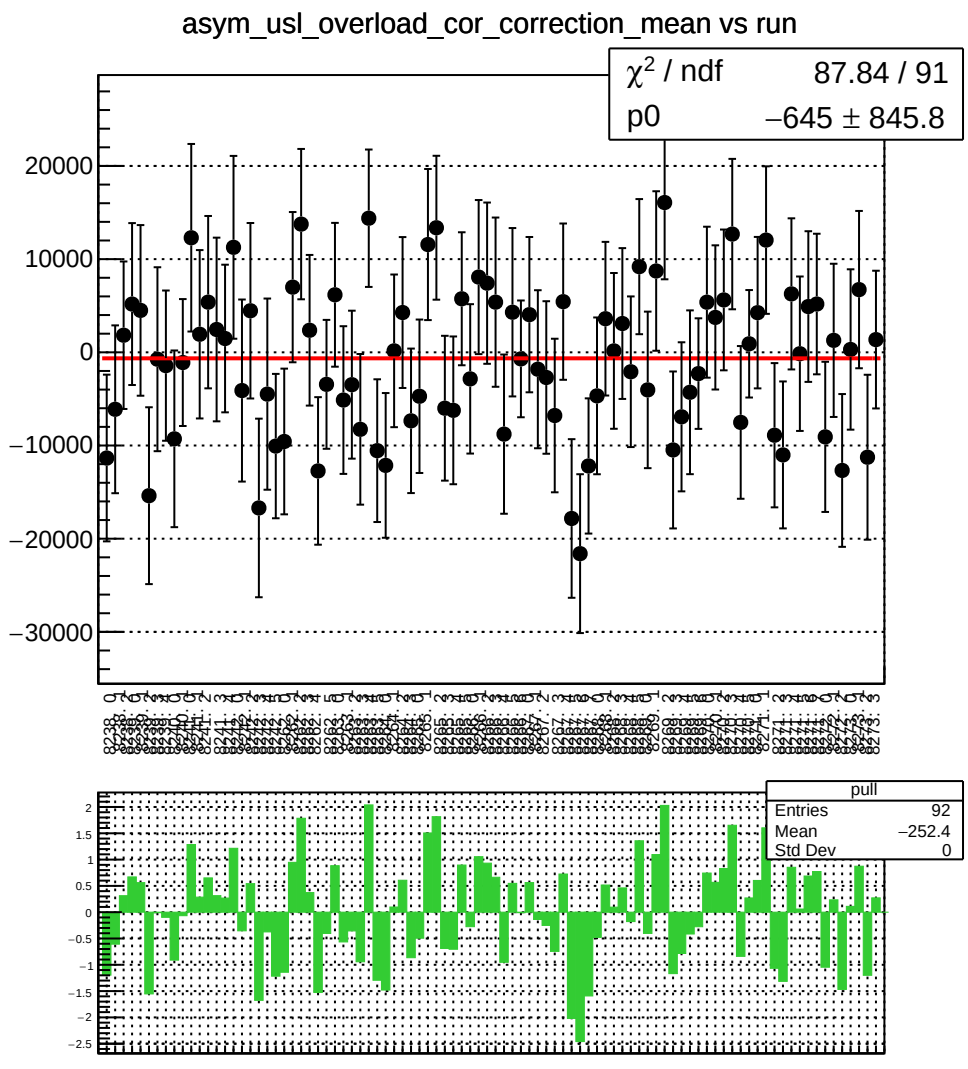

cor_asym_usl_rms vs run
χ² / ndf 310 / 91
p0 1082 ± 0.8106
1160
1140
1120
1100
1080
1060
1040

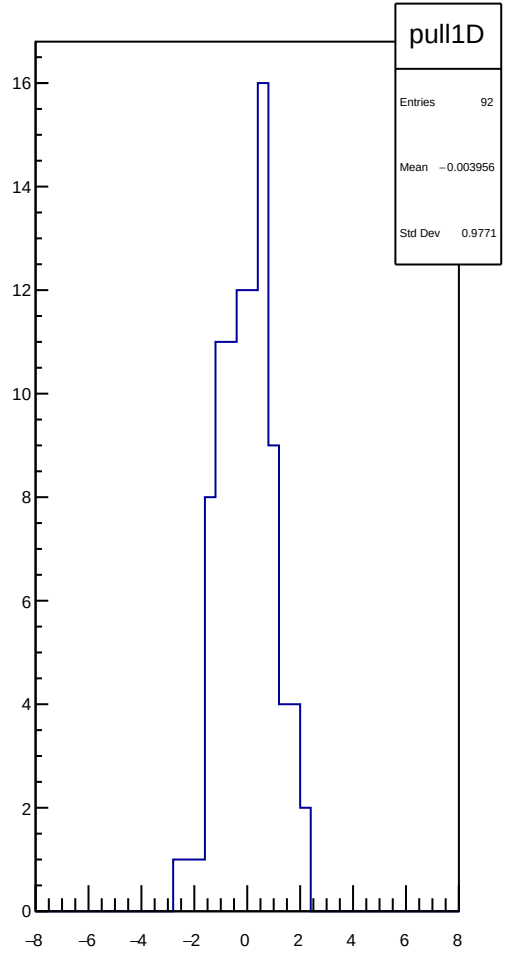

asym_usl_cor_correction_mean vs run
χ² / ndf 88.07 / 91
p0 −645.8 ± 844.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −254
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.003454
Std Dev 0.9784
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

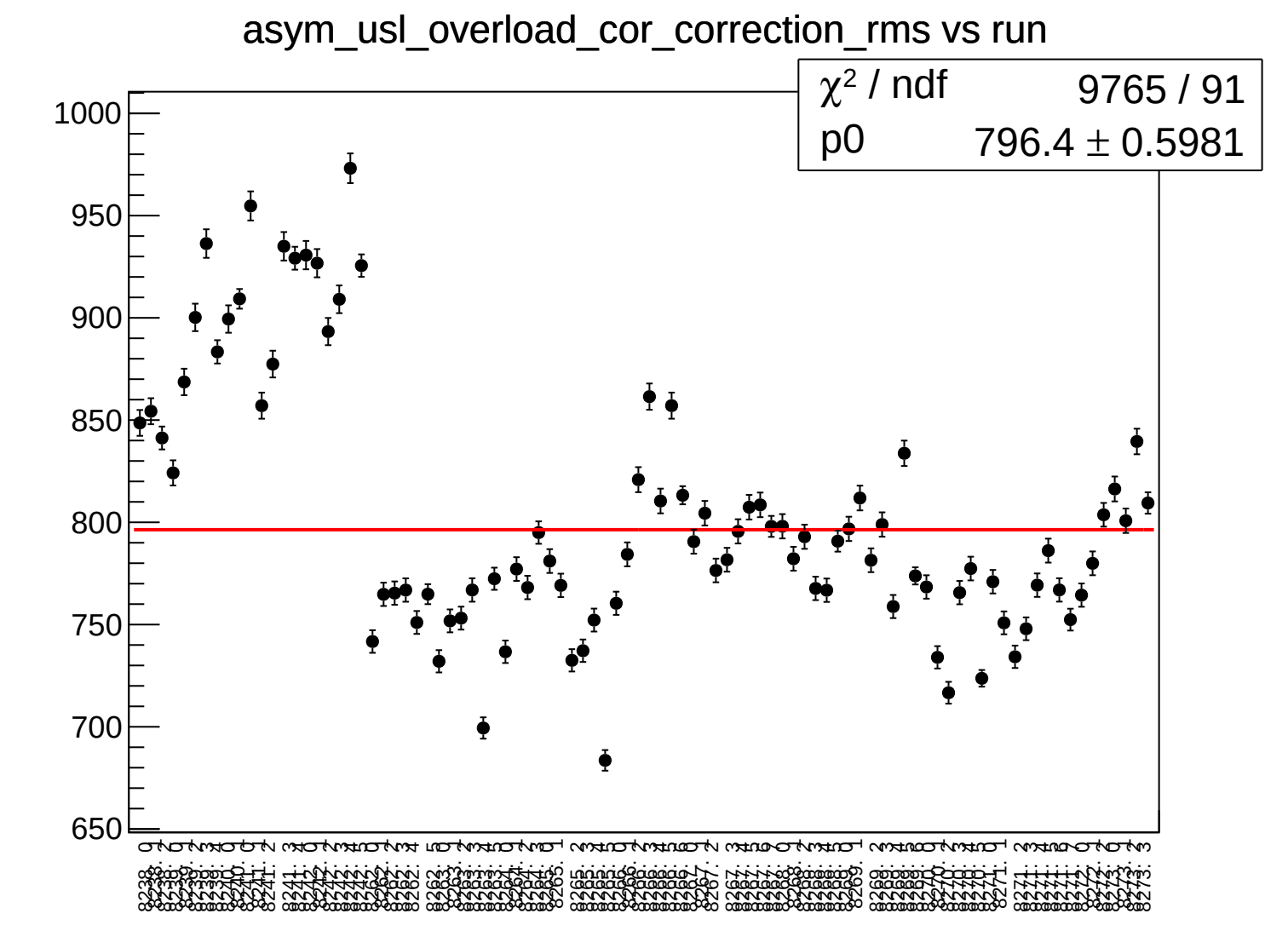

asym_usl_cor_correction_rms vs run
χ² / ndf 9811 / 91
p0 795.5 ± 0.5974
1000
950
900
850
800
750
700
650

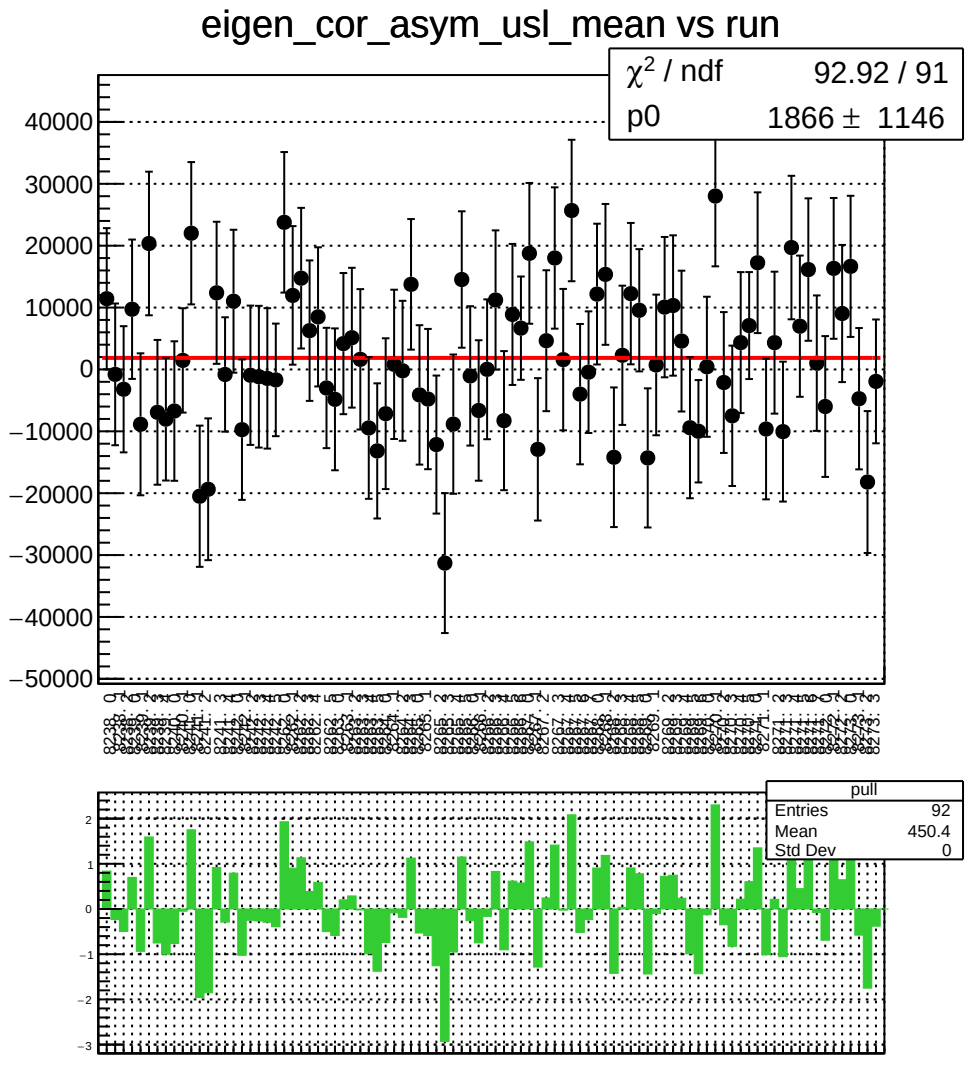

overload_cor_asym_usl_mean vs run
χ² / ndf 92.22 / 91
p0 1855 ± 1146
pull
Entries 92
Mean 458.5
Std Dev 0
pull1D
Entries 92
Mean 0.006371
Std Dev 1.001

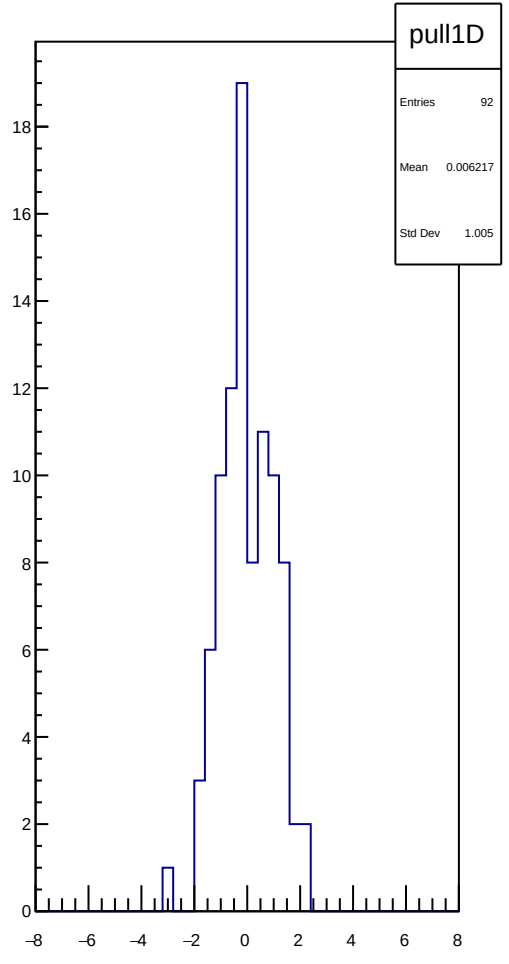

overload_cor_asym_usl_rms vs run
χ² / ndf 310.7 / 91
p0 1082 ± 0.8101
1160
1140
1120
1100
1080
1060
1040

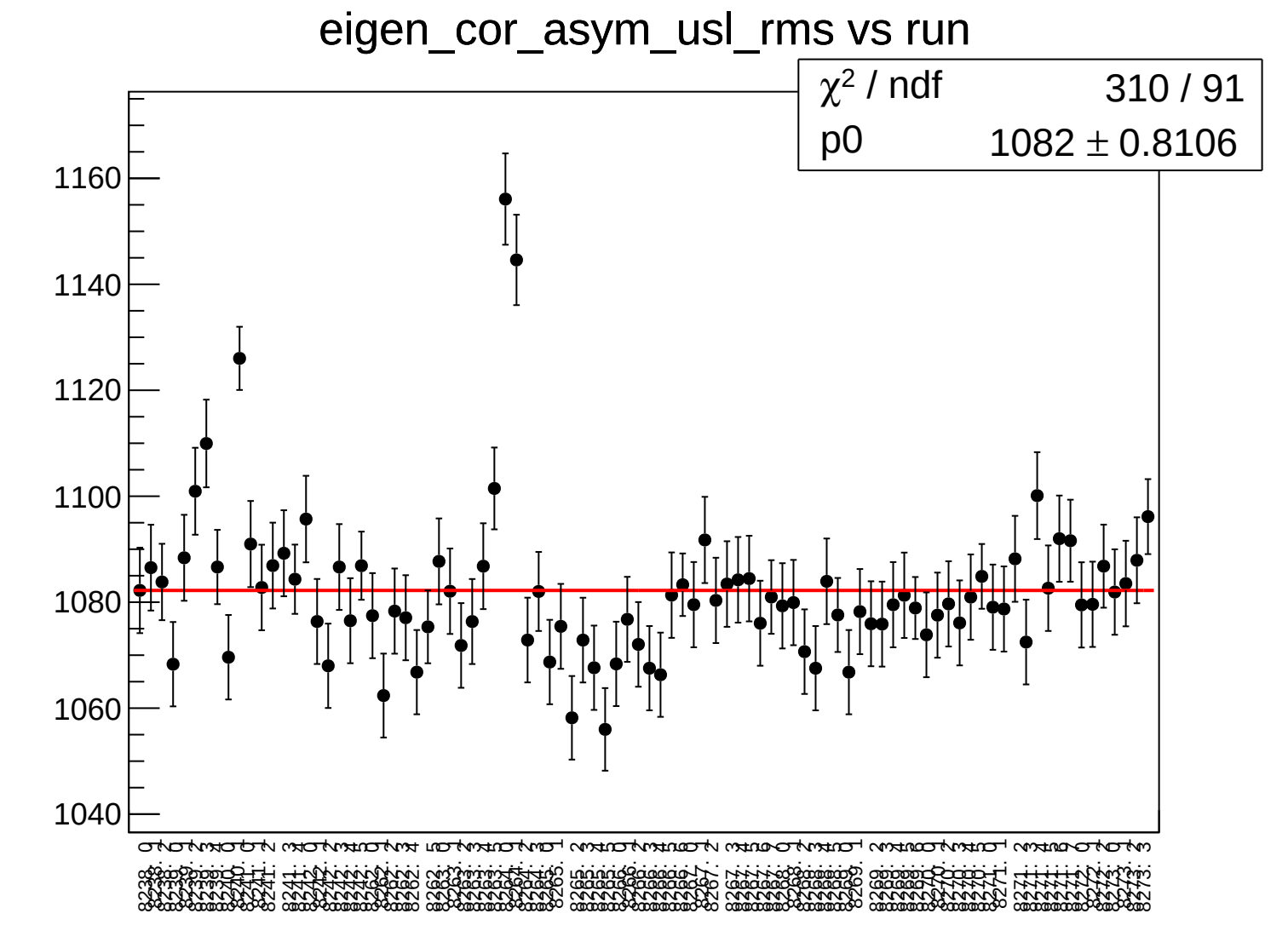

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 87.84 / 91
p0 −645 ± 845.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −252.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

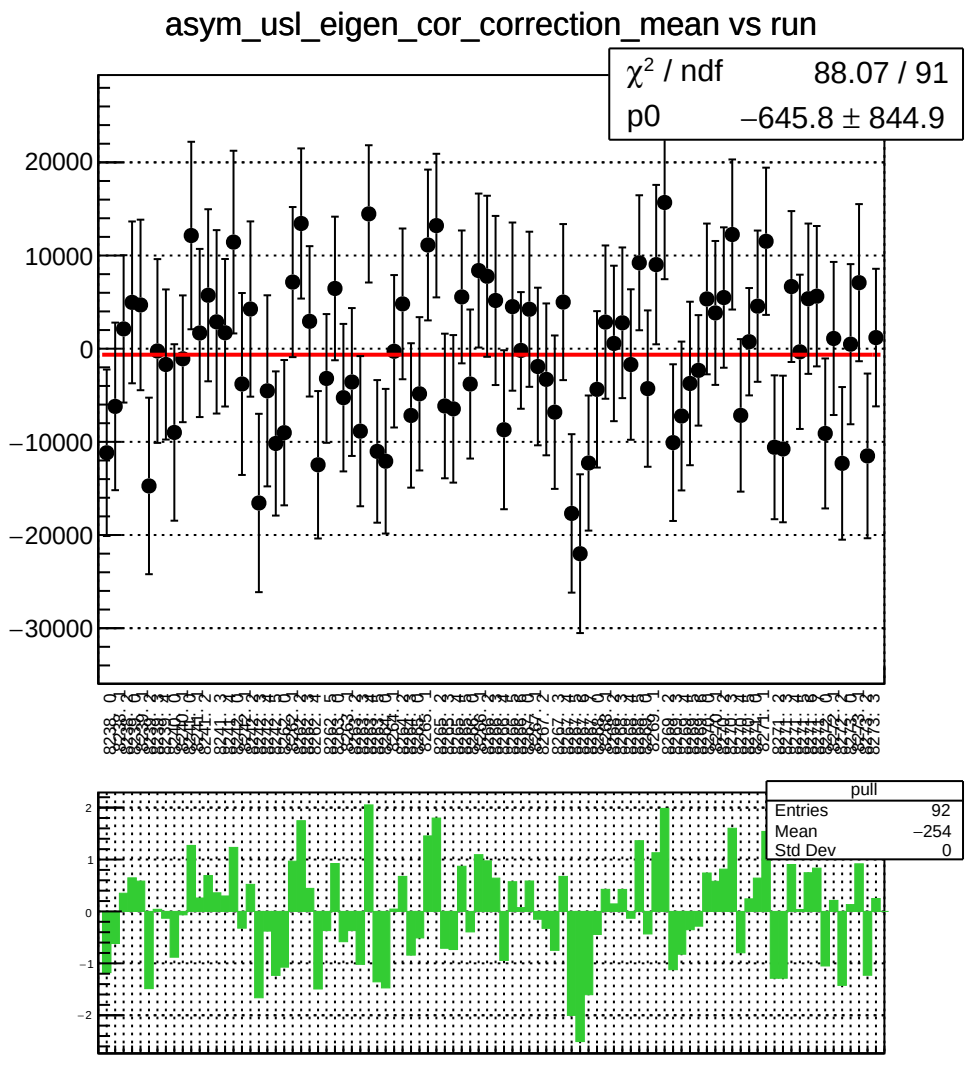

pull1D
Entries 92
Mean −0.003956
Std Dev 0.9771
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

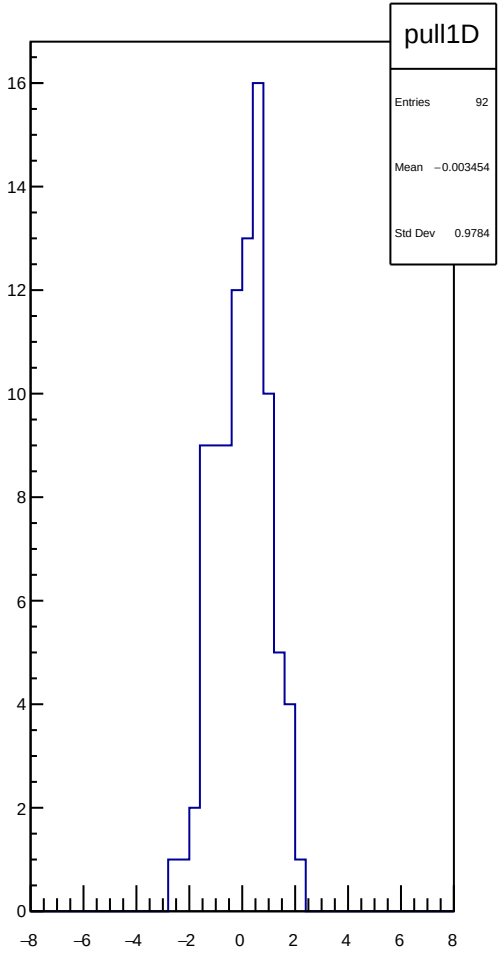

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 9765 / 91
p0 796.4 ± 0.5981
1000
950
900
850
800
750
700
650

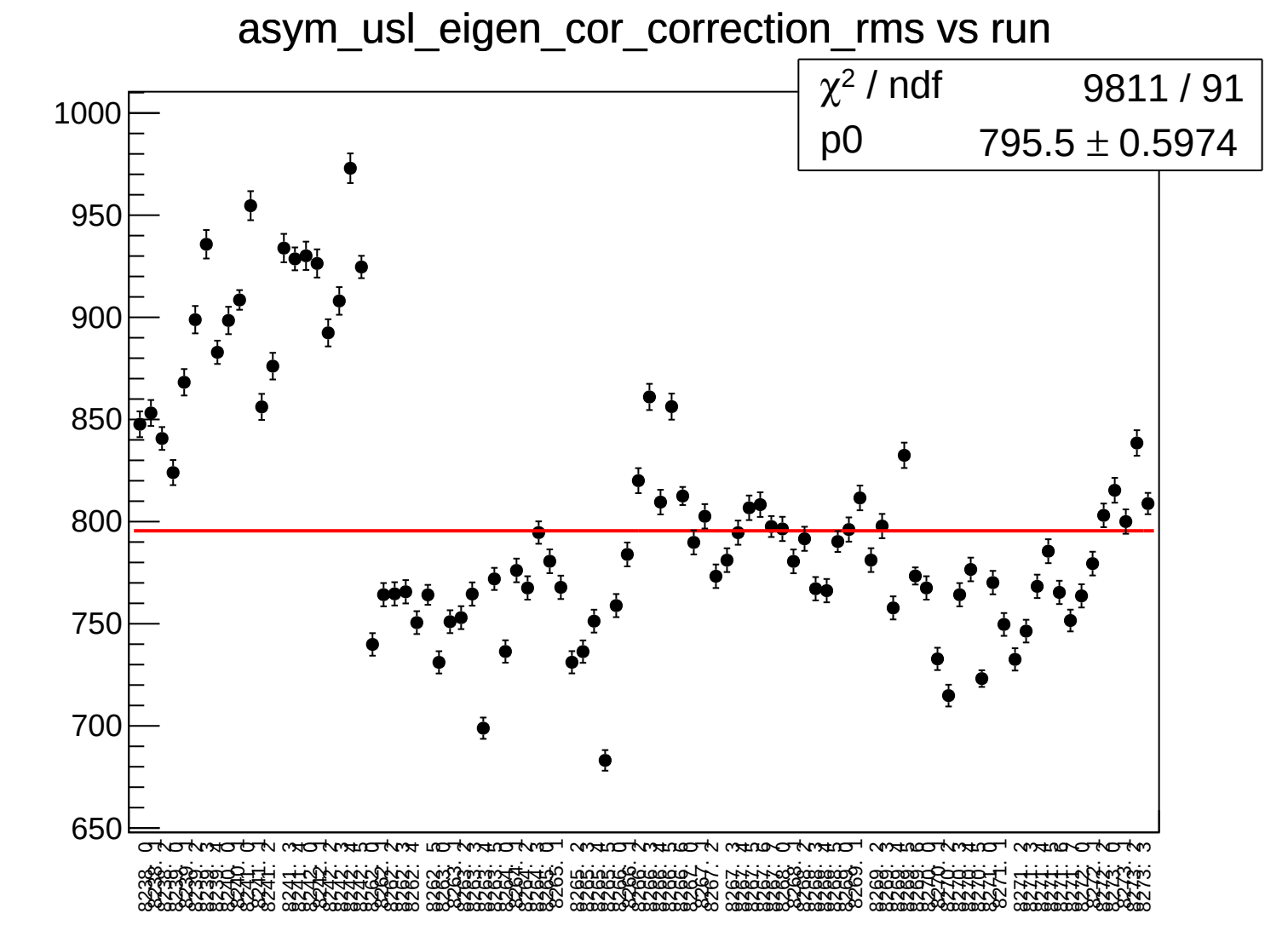

eigen_cor_asym_usl_mean vs run
χ² / ndf 92.92 / 91
p0 1866 ± 1146
pull
Entries 92
Mean 450.4
Std Dev 0

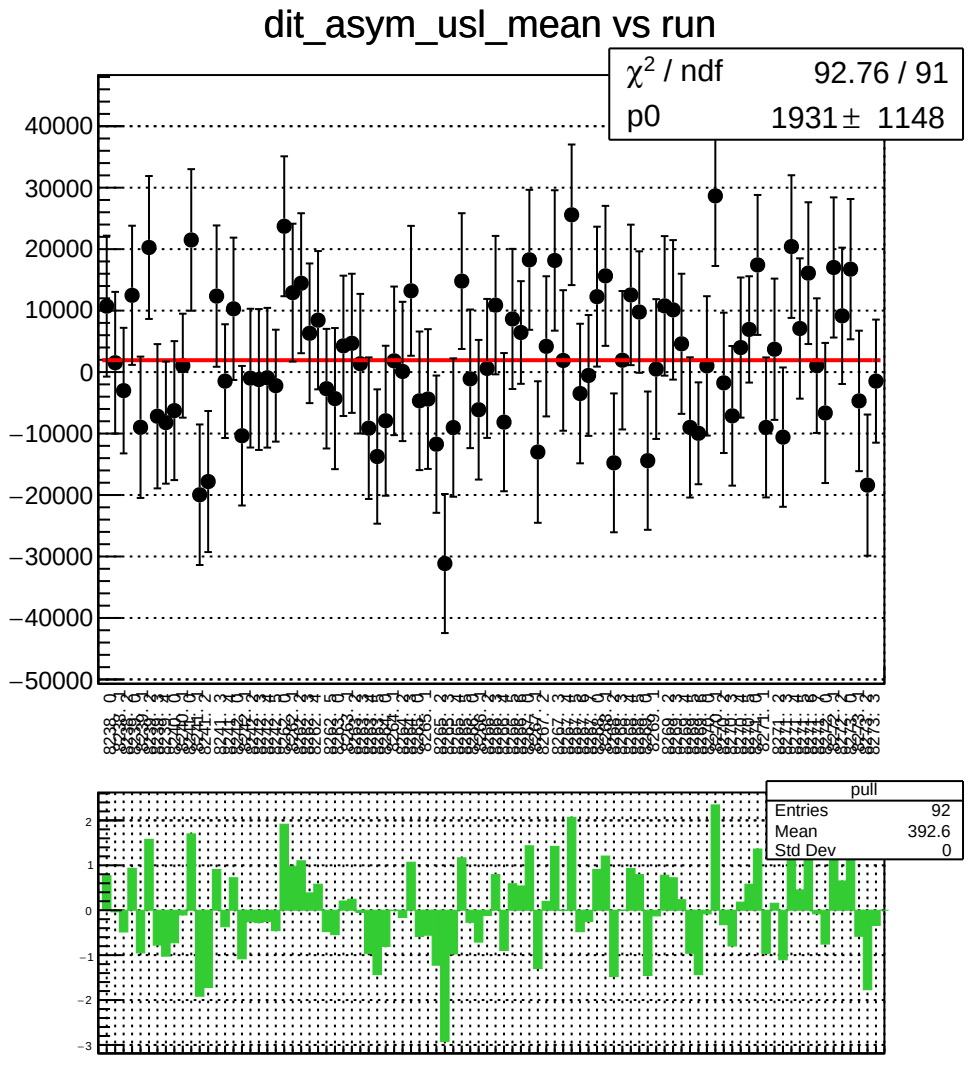

pull1D
Entries 92
Mean 0.006217
Std Dev 1.005

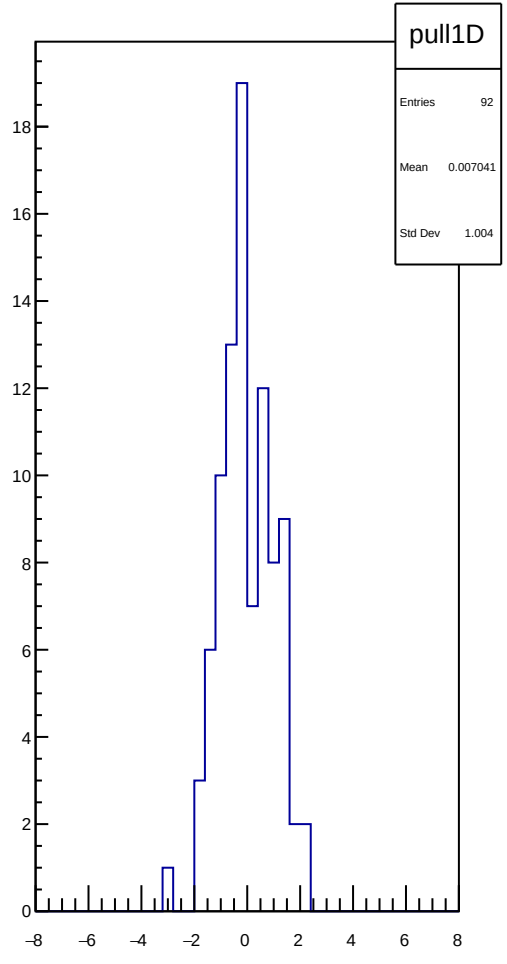

eigen_cor_asym_usl_rms vs run
χ² / ndf 310 / 91
p0 1082 ± 0.8106
1160
1140
1120
1100
1080
1060
1040

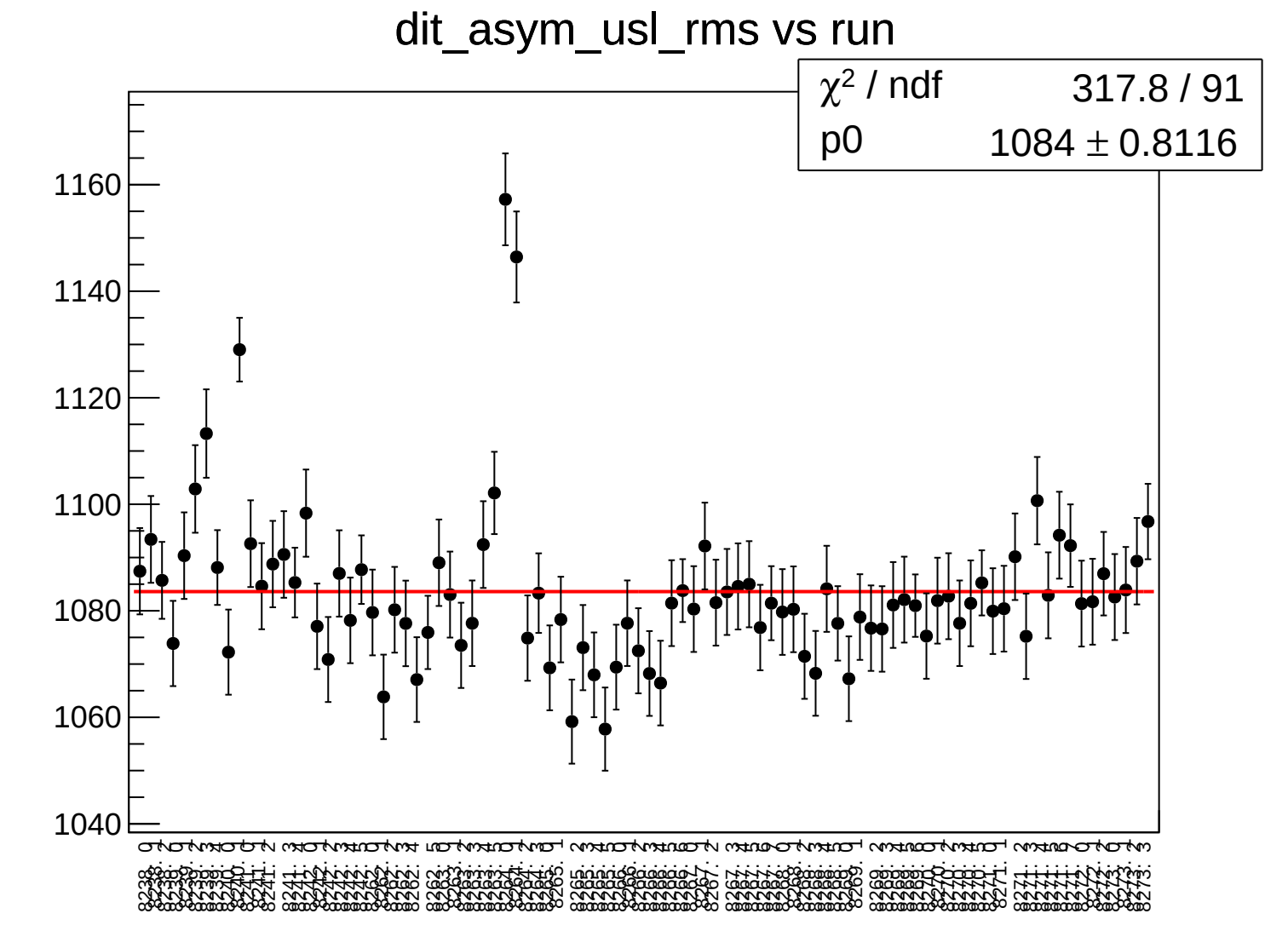

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 88.07 / 91
p0 −645.8 ± 844.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −254
Std Dev 0
2
1
0
−1
−2

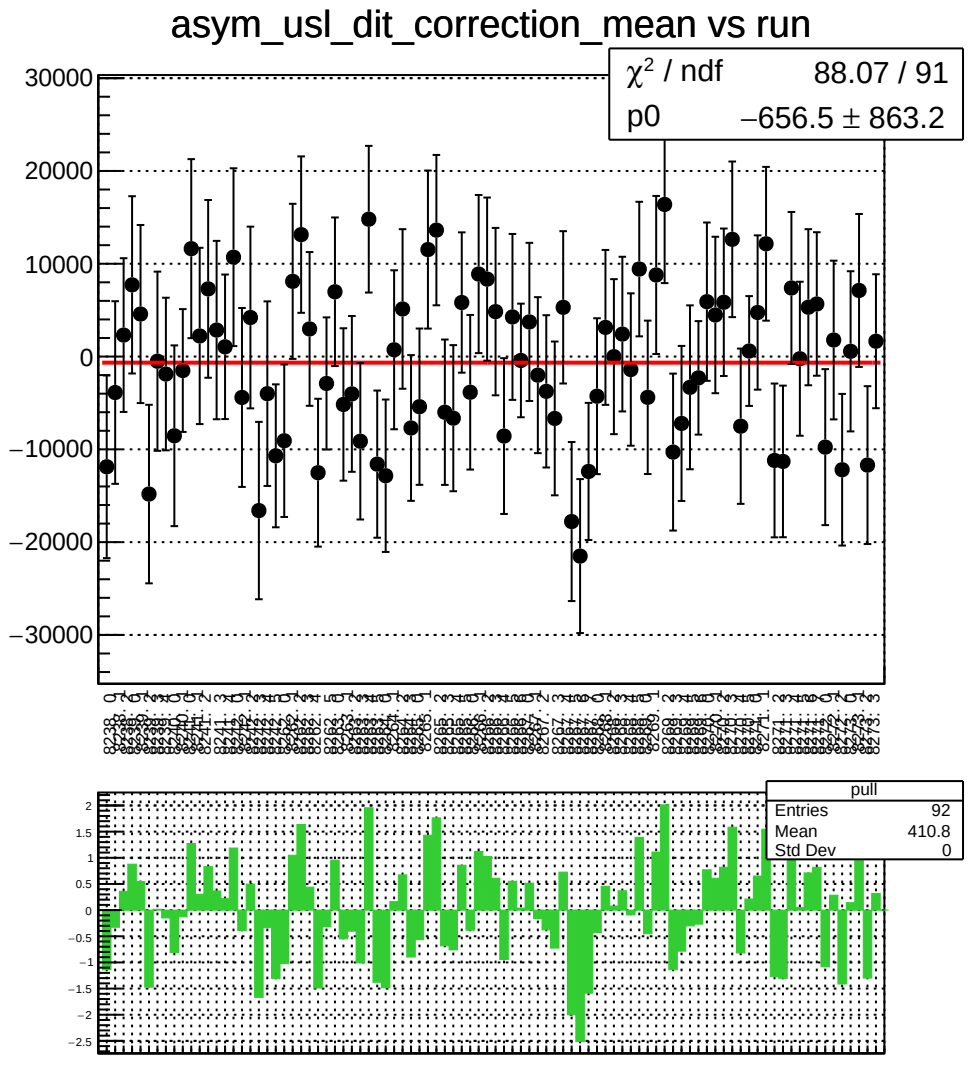

pull1D
Entries 92
Mean −0.003454
Std Dev 0.9784
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

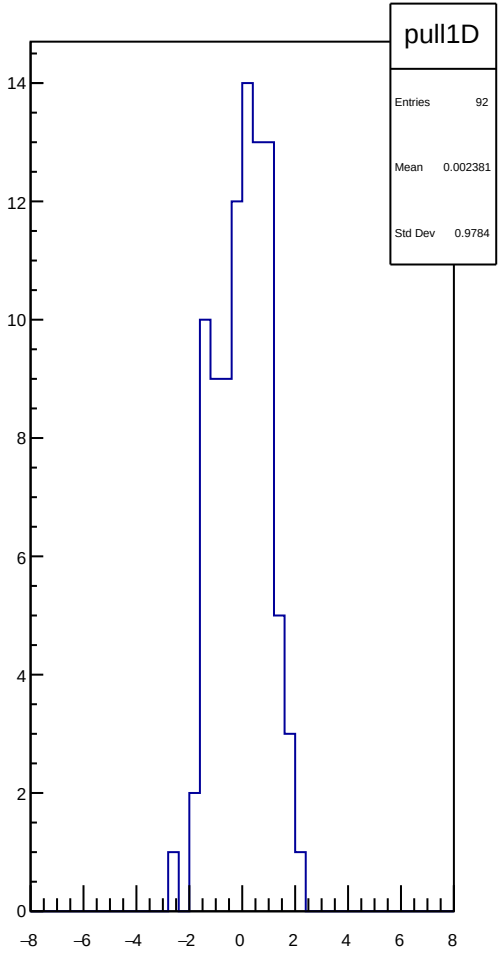

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 9811 / 91
p0 795.5 ± 0.5974
1000
950
900
850
800
750
700
650

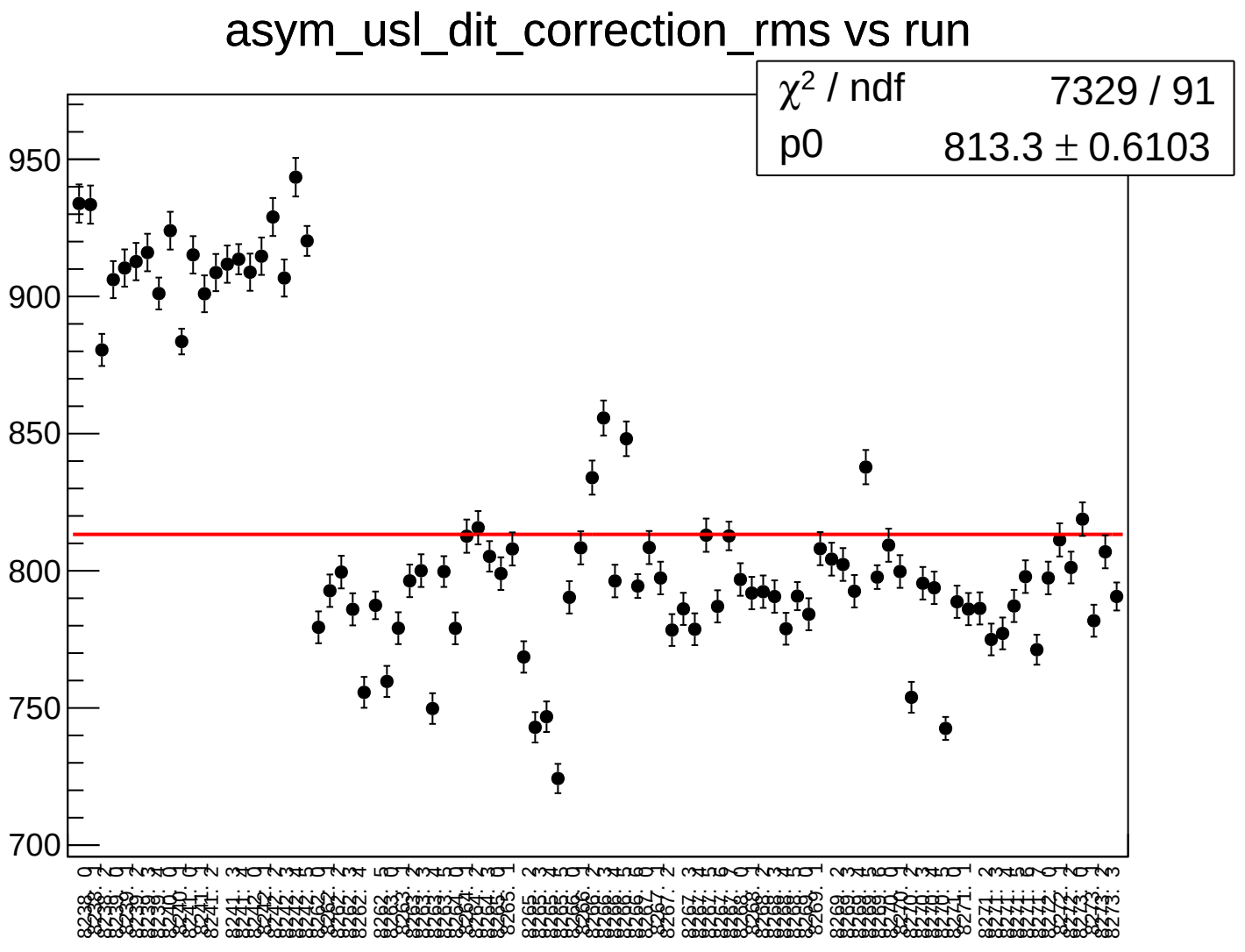

dit_asym_usl_mean vs run
χ² / ndf 92.76 / 91
p0 1931 ± 1148
pull
Entries 92
Mean 392.6
Std Dev 0

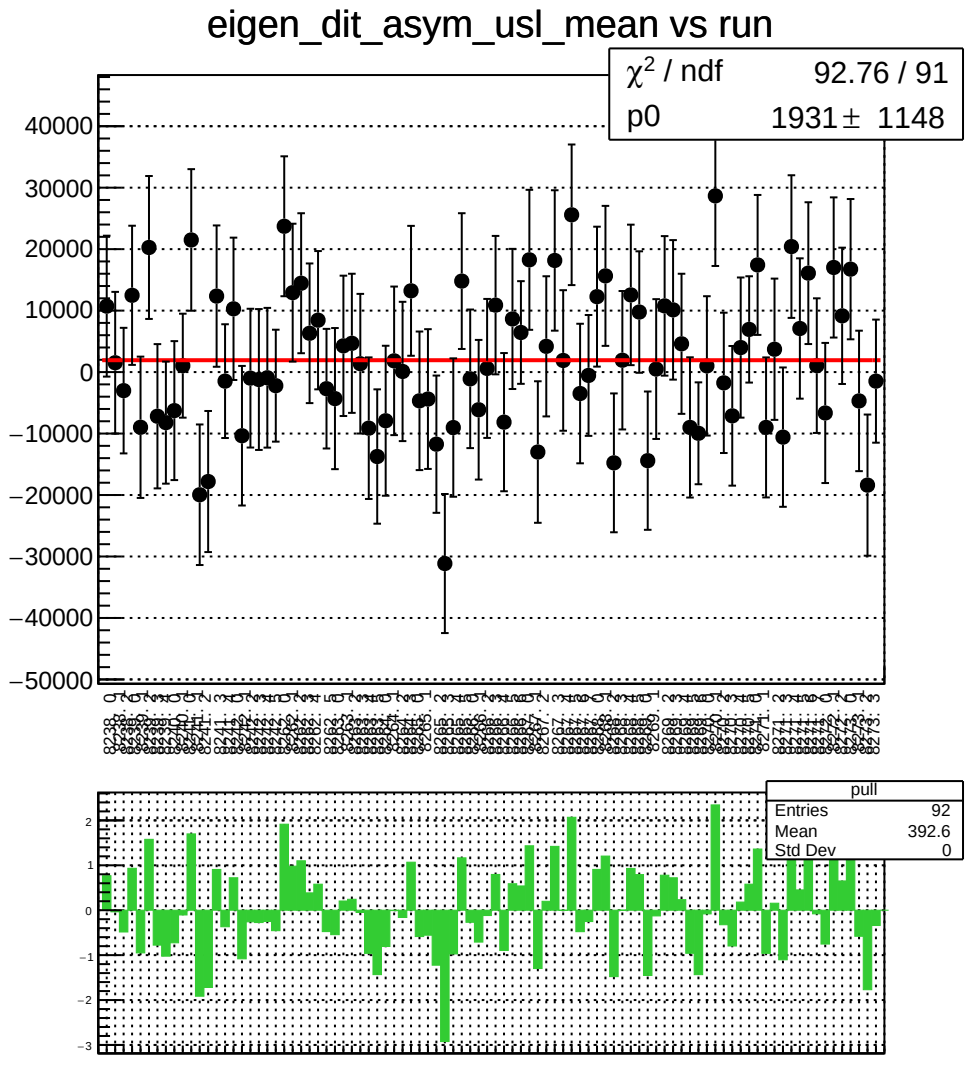

pull1D
Entries 92
Mean 0.007041
Std Dev 1.004

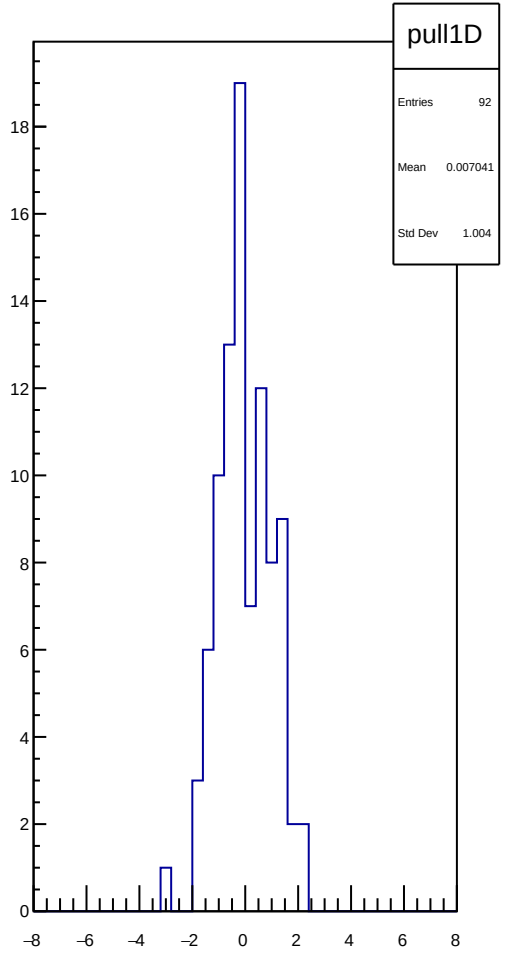

dit_asym_usl_rms vs run
χ² / ndf 317.8 / 91
p0 1084 ± 0.8116
1160
1140
1120
1100
1080
1060
1040

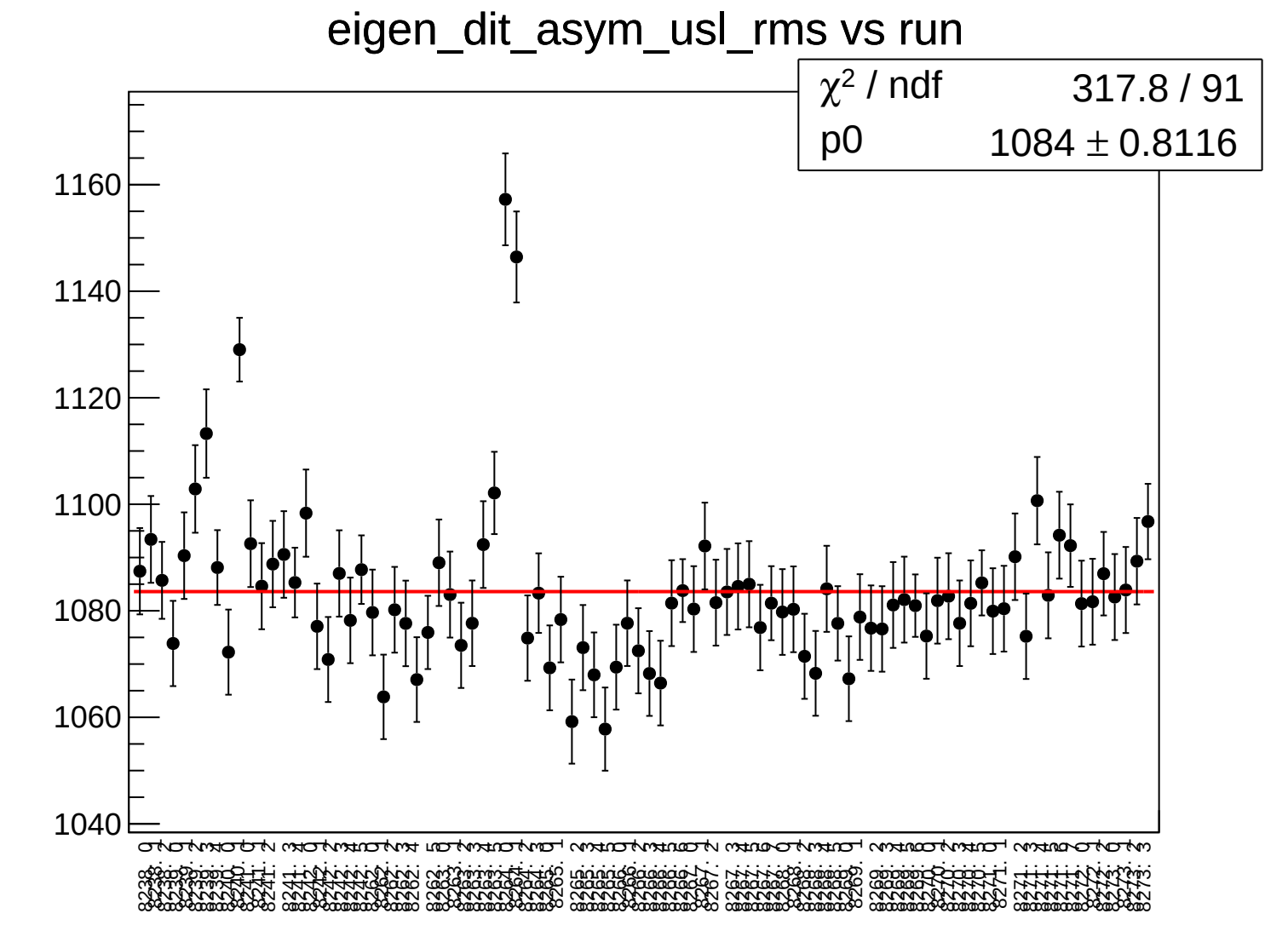

asym_usl_dit_correction_mean vs run
χ² / ndf 88.07 / 91
p0 −656.5 ± 863.2
pull
Entries 92
Mean 410.8
Std Dev 0

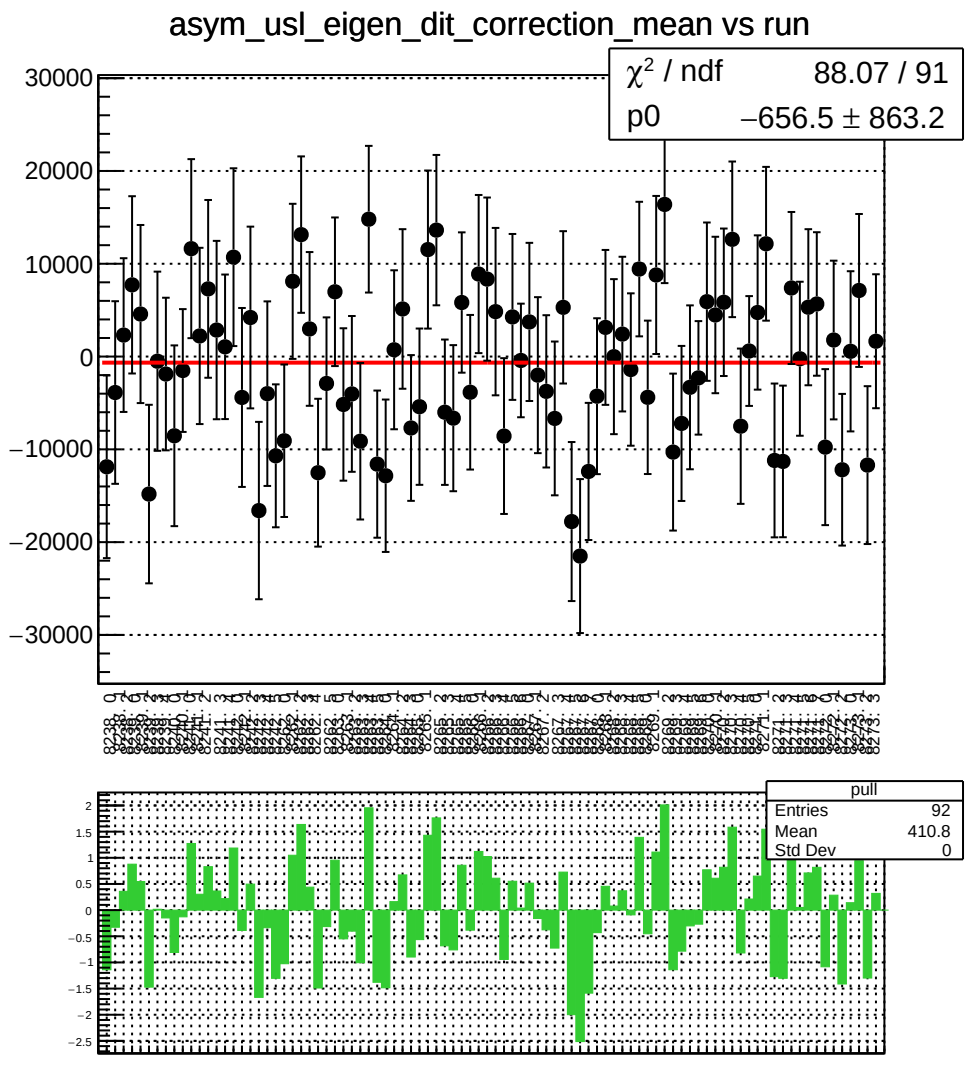

pull1D
Entries 92
Mean 0.002381
Std Dev 0.9784

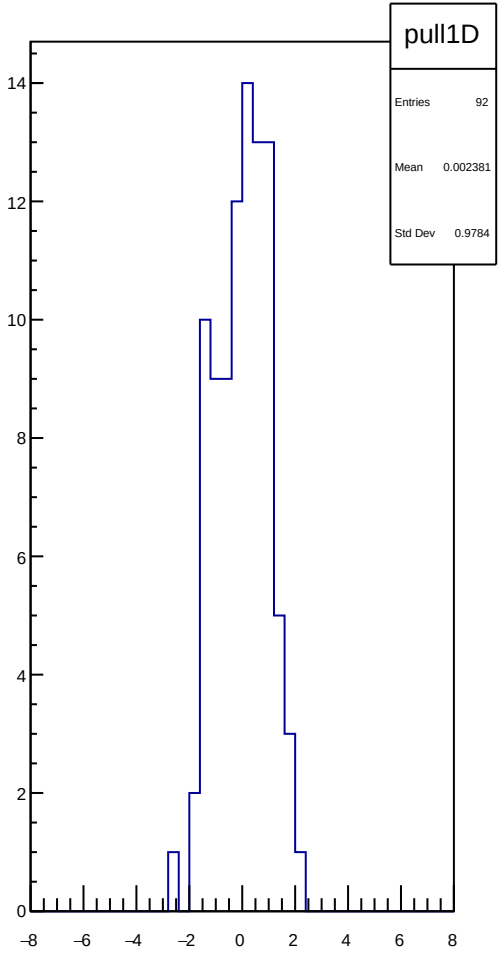

asym_usl_dit_correction_rms vs run
χ² / ndf 7329 / 91
p0 813.3 ± 0.6103
950
900
850
800
750
700

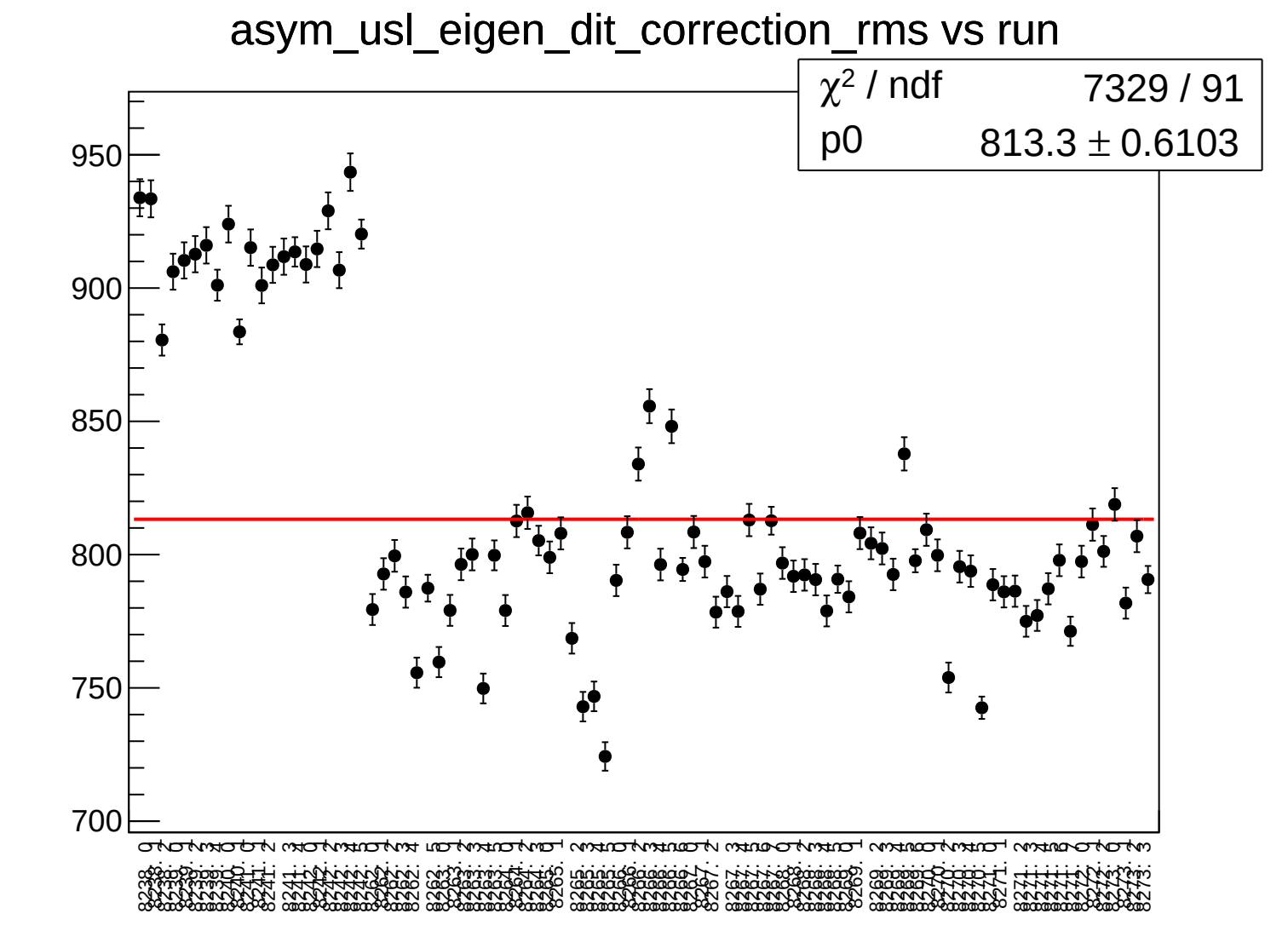

eigen_dit_asym_usl_mean vs run
χ² / ndf 92.76 / 91
p0 1931 ± 1148
pull
Entries 92
Mean 392.6
Std Dev 0

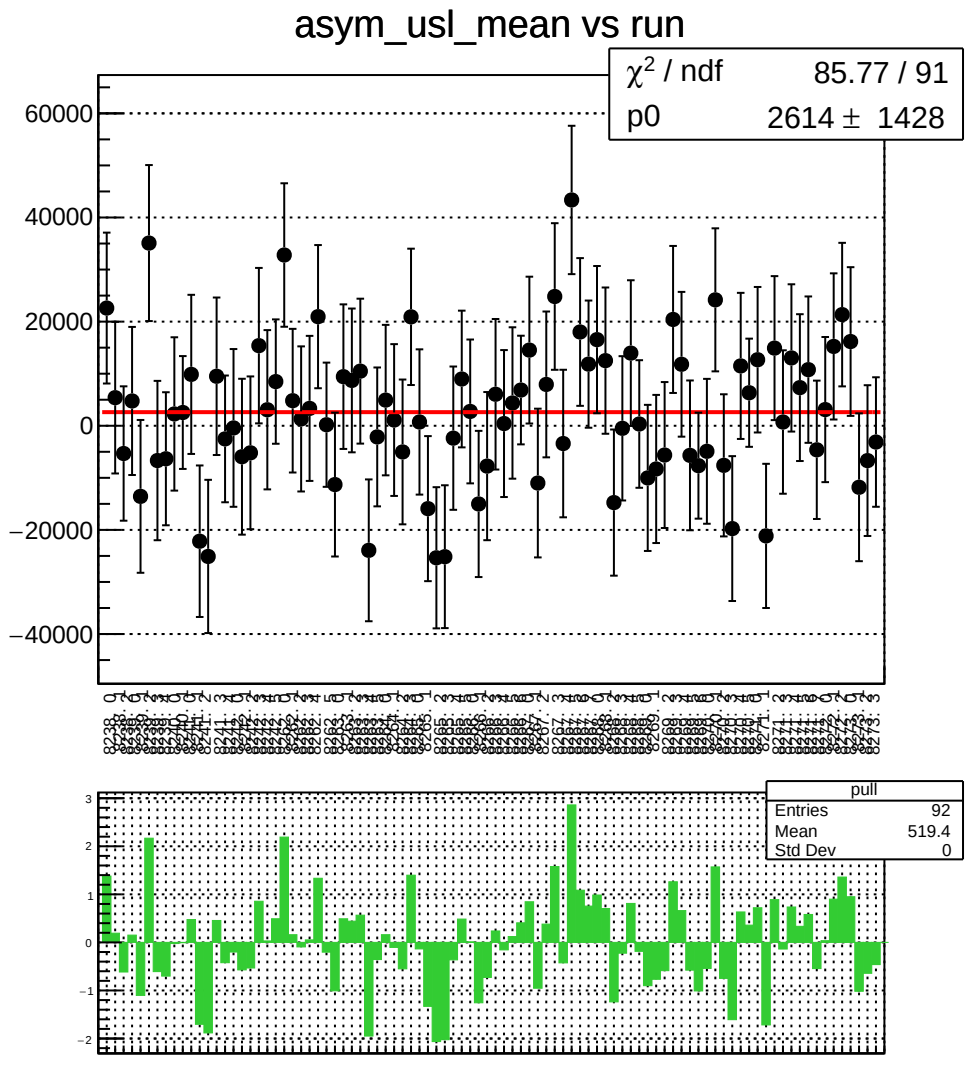

pull1D
Entries 92
Mean 0.007041
Std Dev 1.004

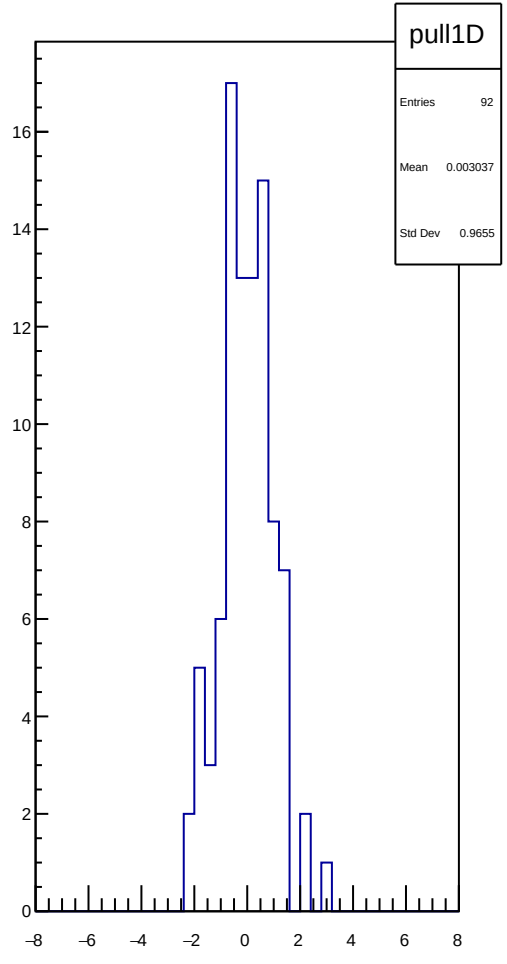

eigen_dit_asym_usl_rms vs run
χ² / ndf 317.8 / 91
p0 1084 ± 0.8116
1160
1140
1120
1100
1080
1060
1040

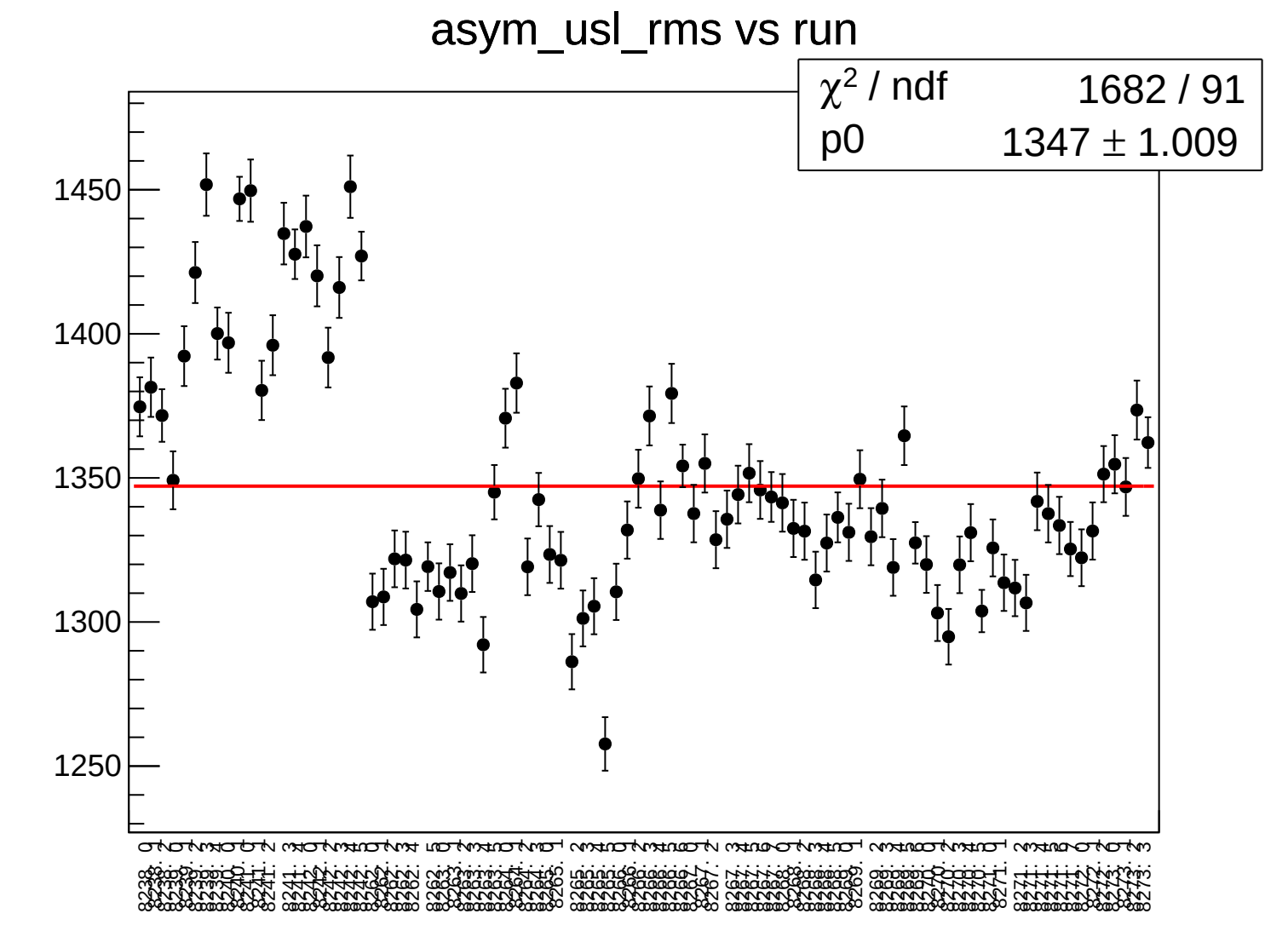

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 88.07 / 91
p0 −656.5 ± 863.2
pull
Entries 92
Mean 410.8
Std Dev 0

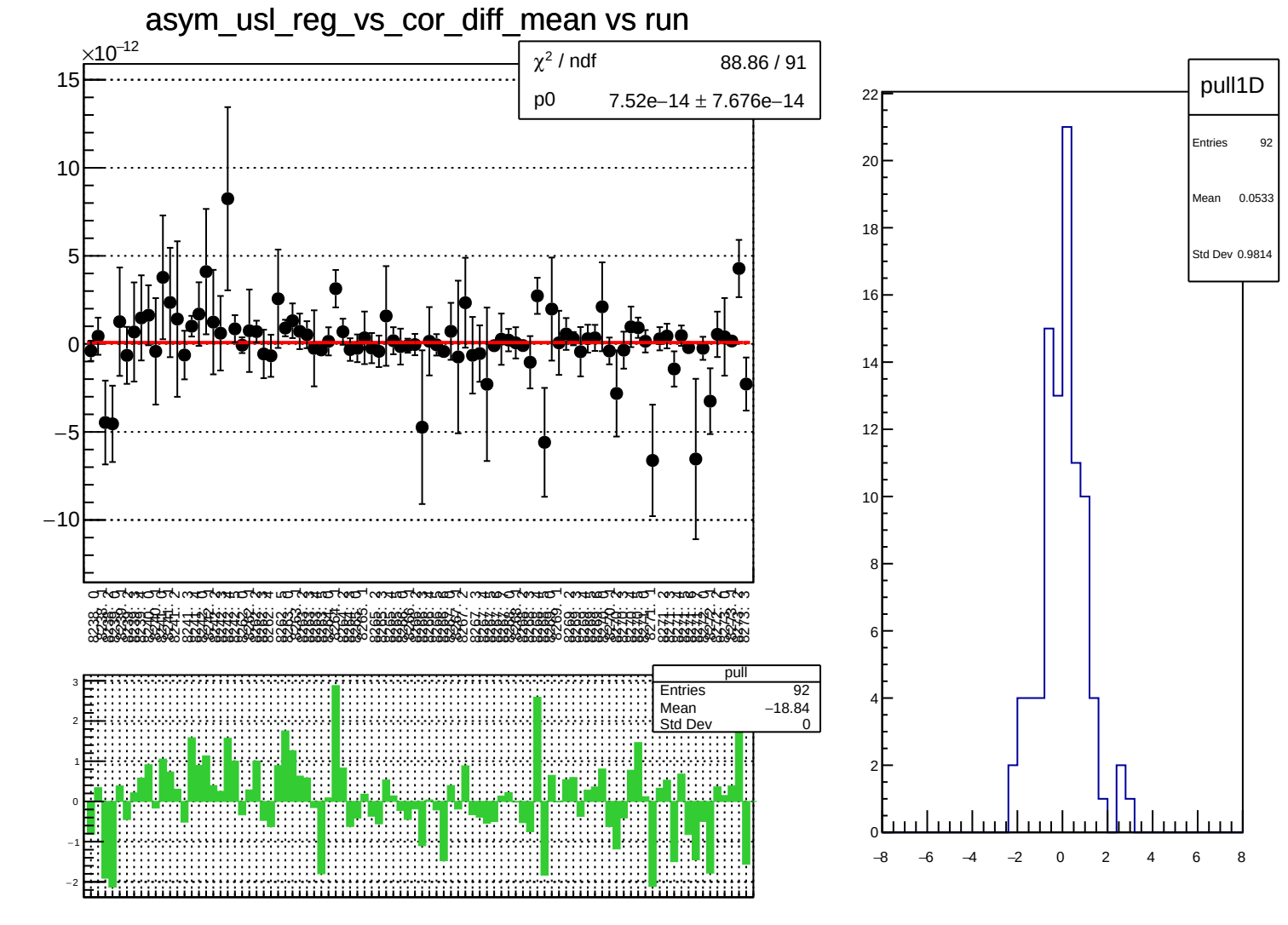

pull1D
Entries 92
Mean 0.002381
Std Dev 0.9784

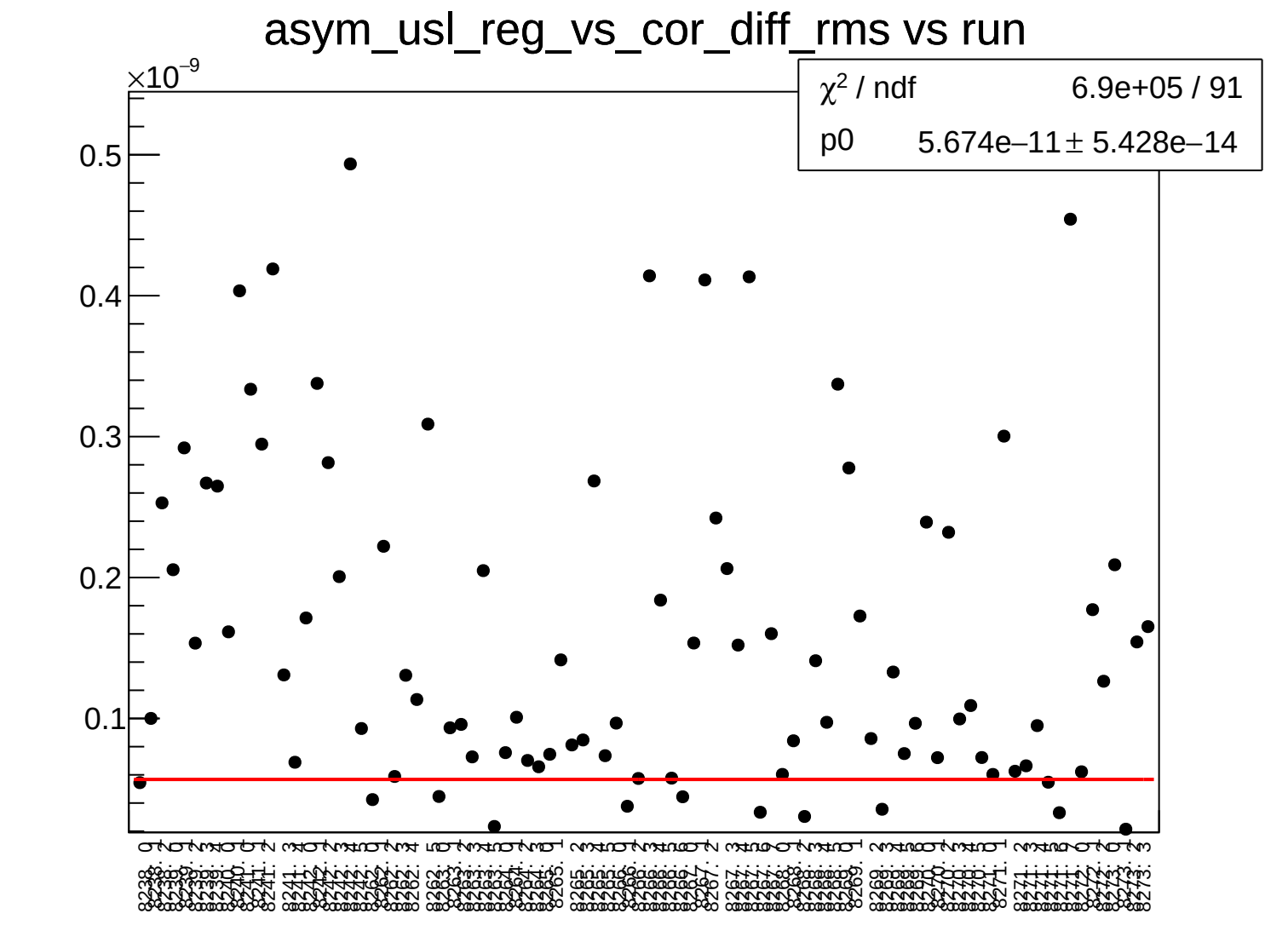

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 7329 / 91
p0 813.3 ± 0.6103
950
900
850
800
750
700

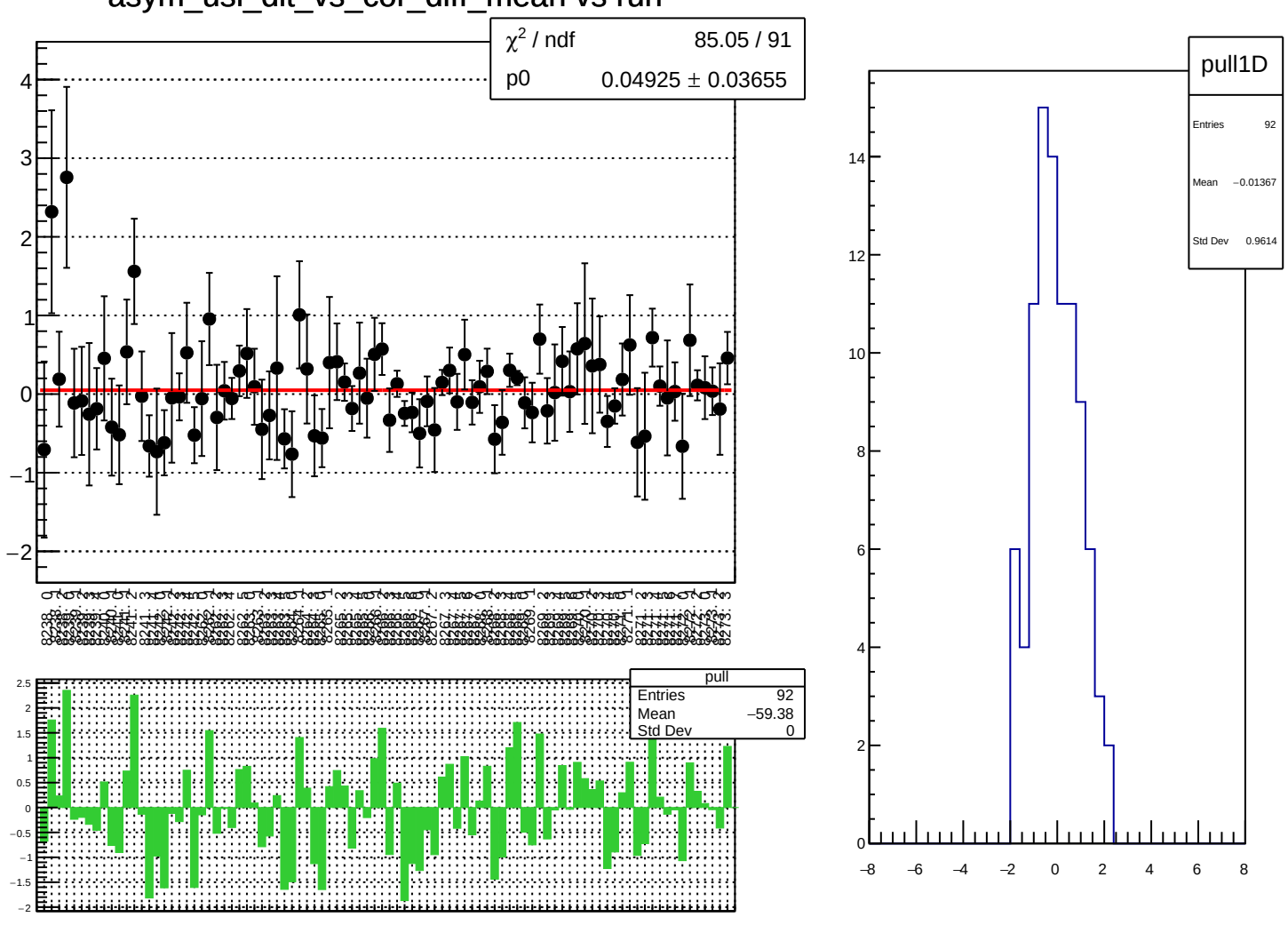

asym_usl_mean vs run
χ² / ndf 85.77 / 91
p0 2614 ± 1428
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 519.4
Std Dev 0
3
2
1
0
−1
−2

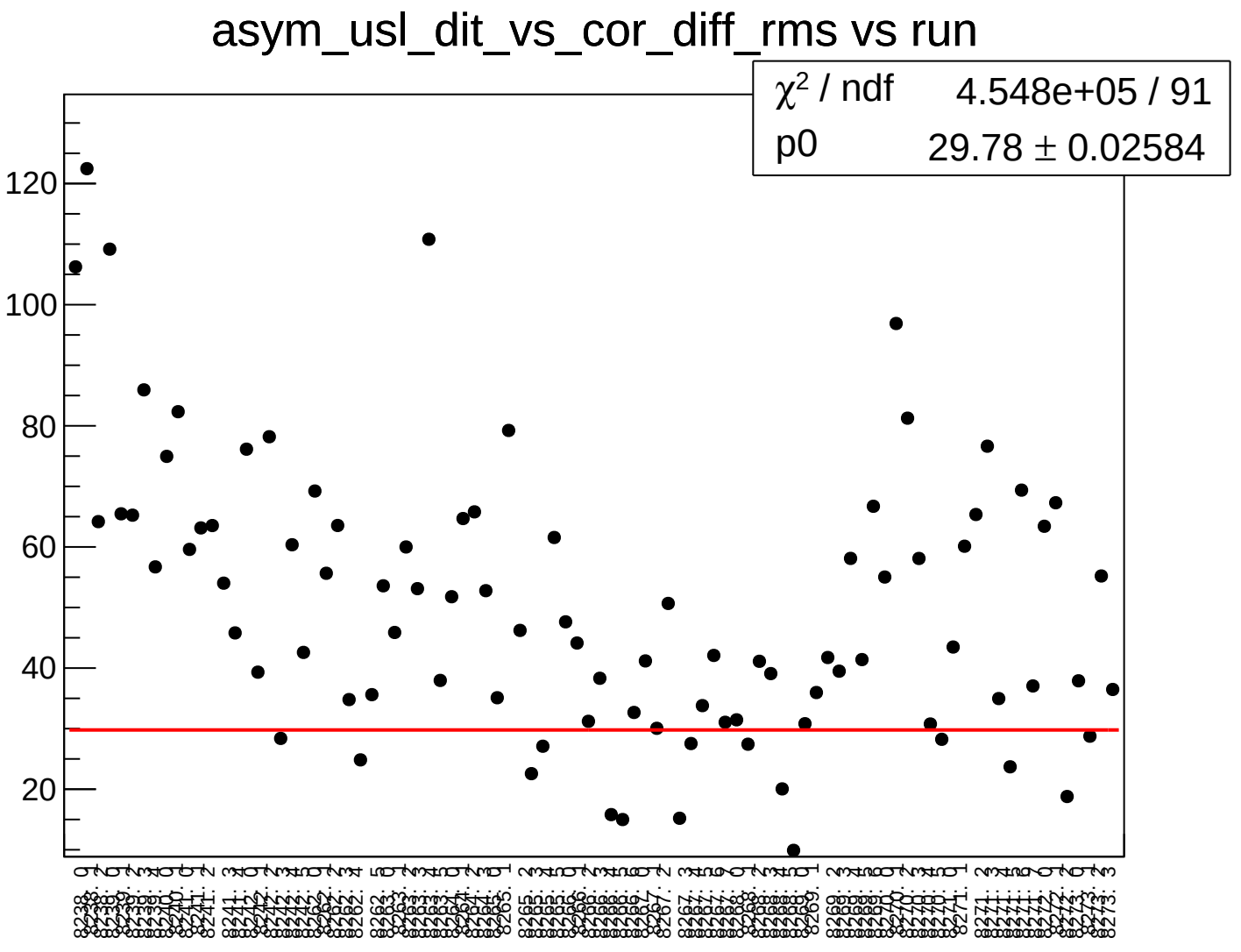

pull1D
Entries 92
Mean 0.003037
Std Dev 0.9655
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

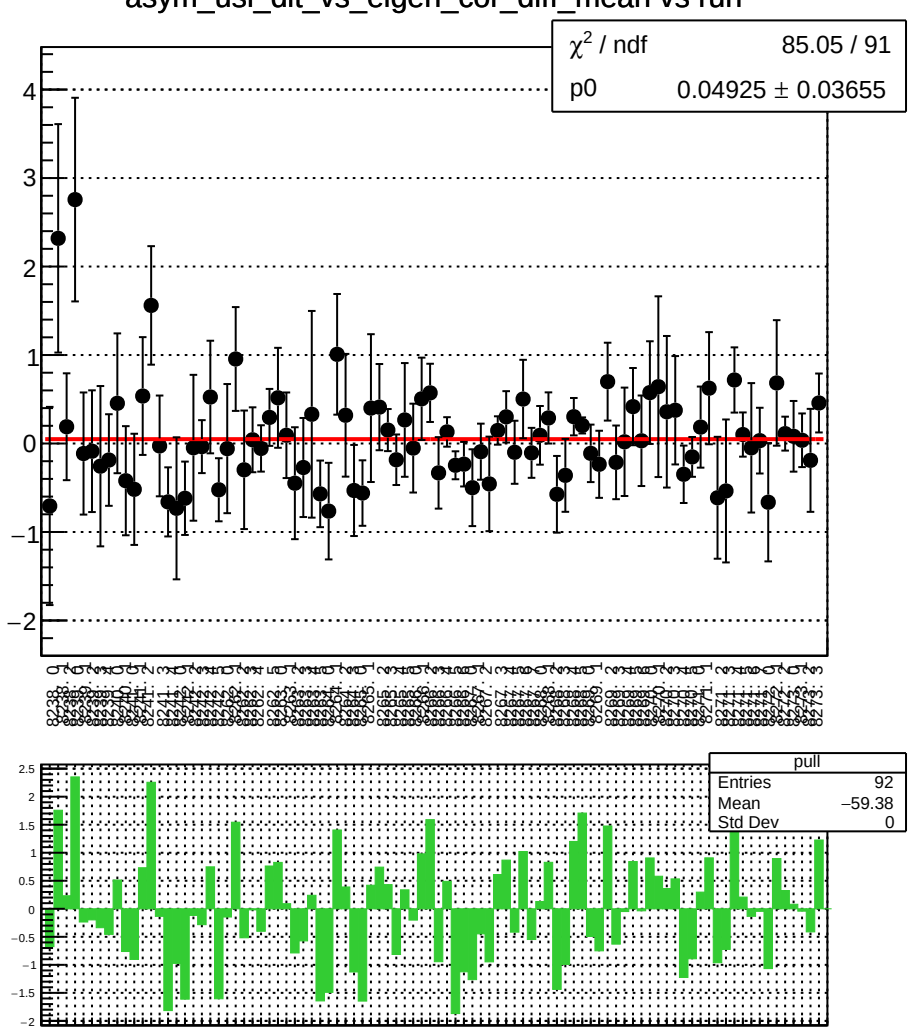

asym_usl_rms vs run
χ² / ndf 1682 / 91
p0 1347 ± 1.009
1450
1400
1350
1300
1250

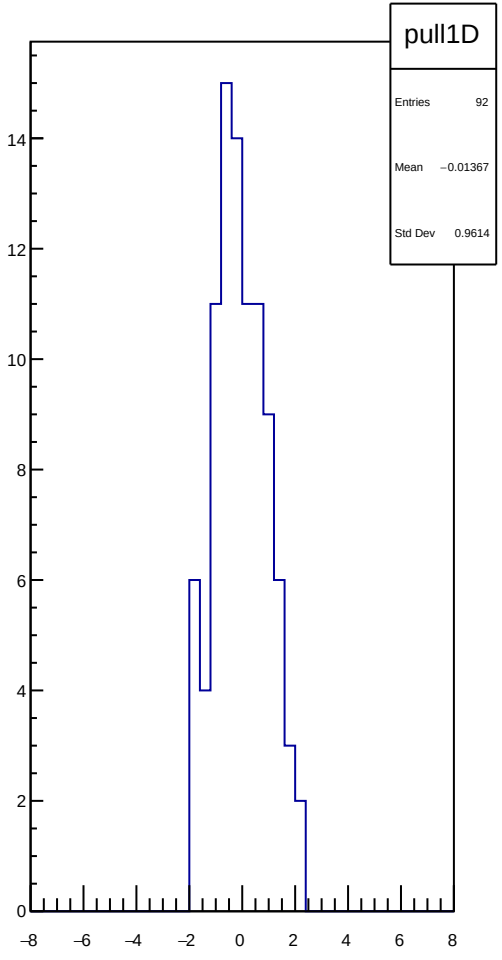

asym_usl_reg_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 88.86 / 91
p0 7.52e−14 ± 7.676e−14
pull
Entries 92
Mean −18.84
Std Dev 0
pull1D
Entries 92
Mean 0.0533
Std Dev 0.9814

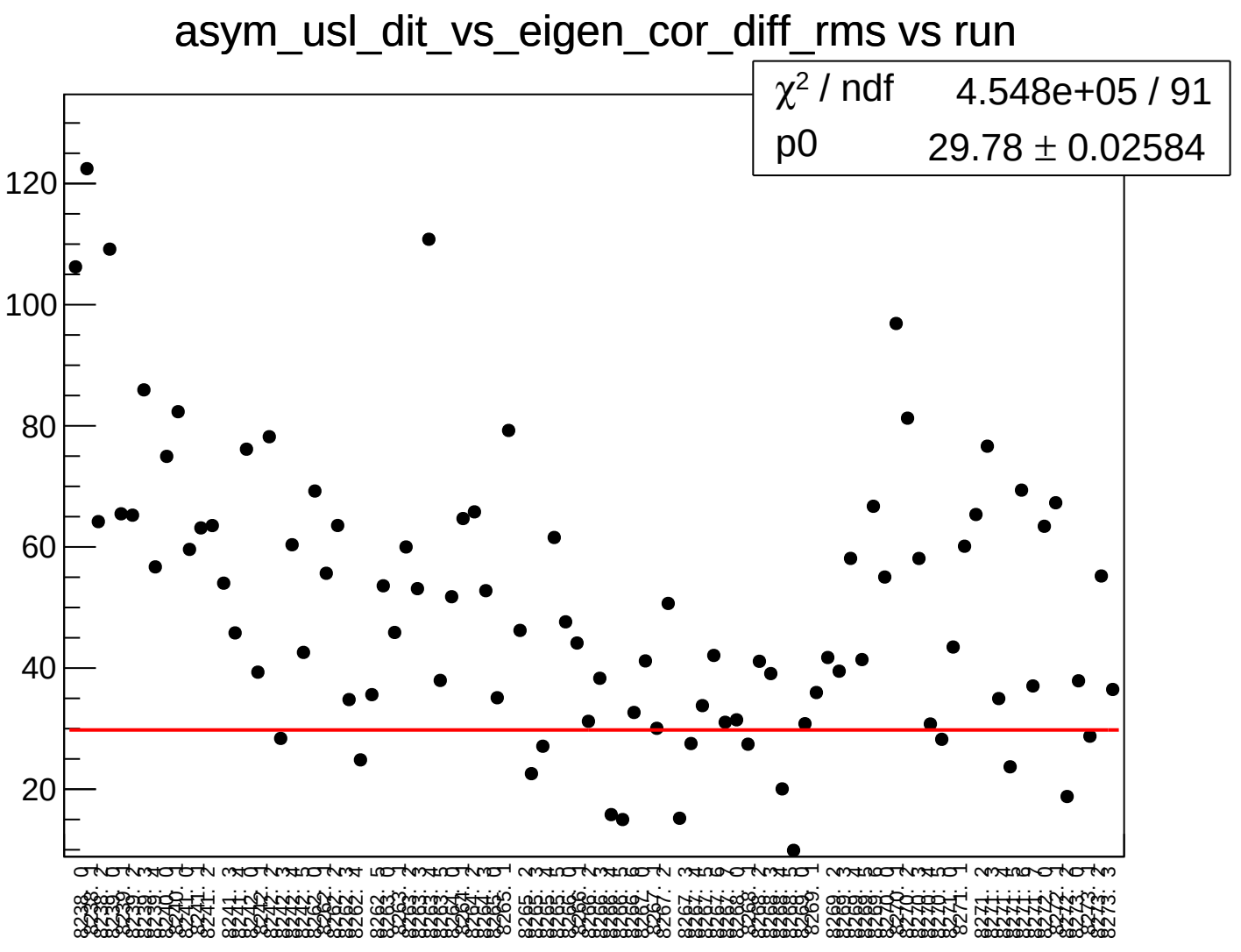

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.9e+05 / 91
p0 5.674e−11 ± 5.428e−14
0.5
0.4
0.3
0.2
0.1

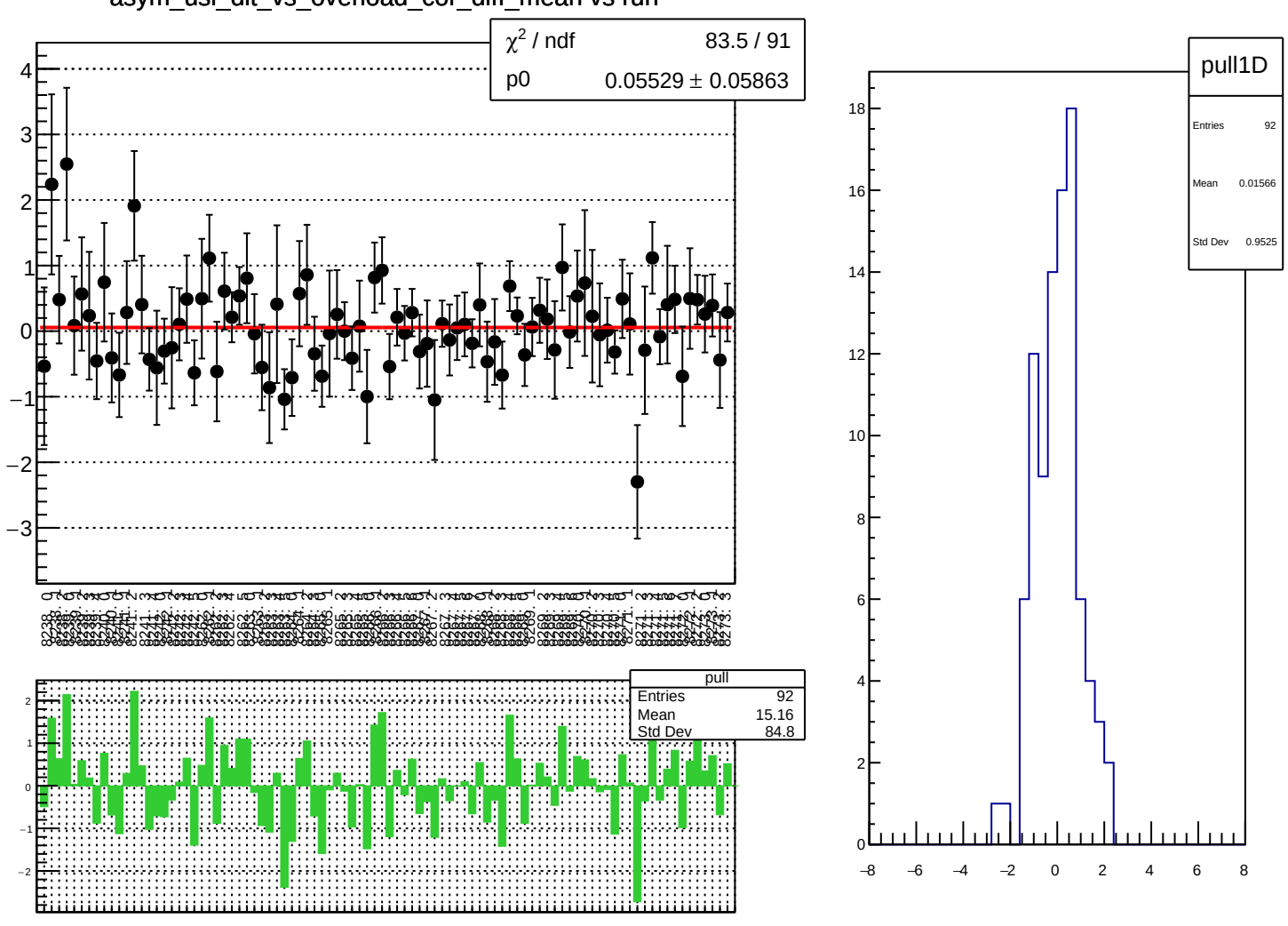

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 85.05 / 91
p0 0.04925 ± 0.03655
pull
Entries 92
Mean −59.38
Std Dev 0
pull1D
Entries 92
Mean −0.01367
Std Dev 0.9614

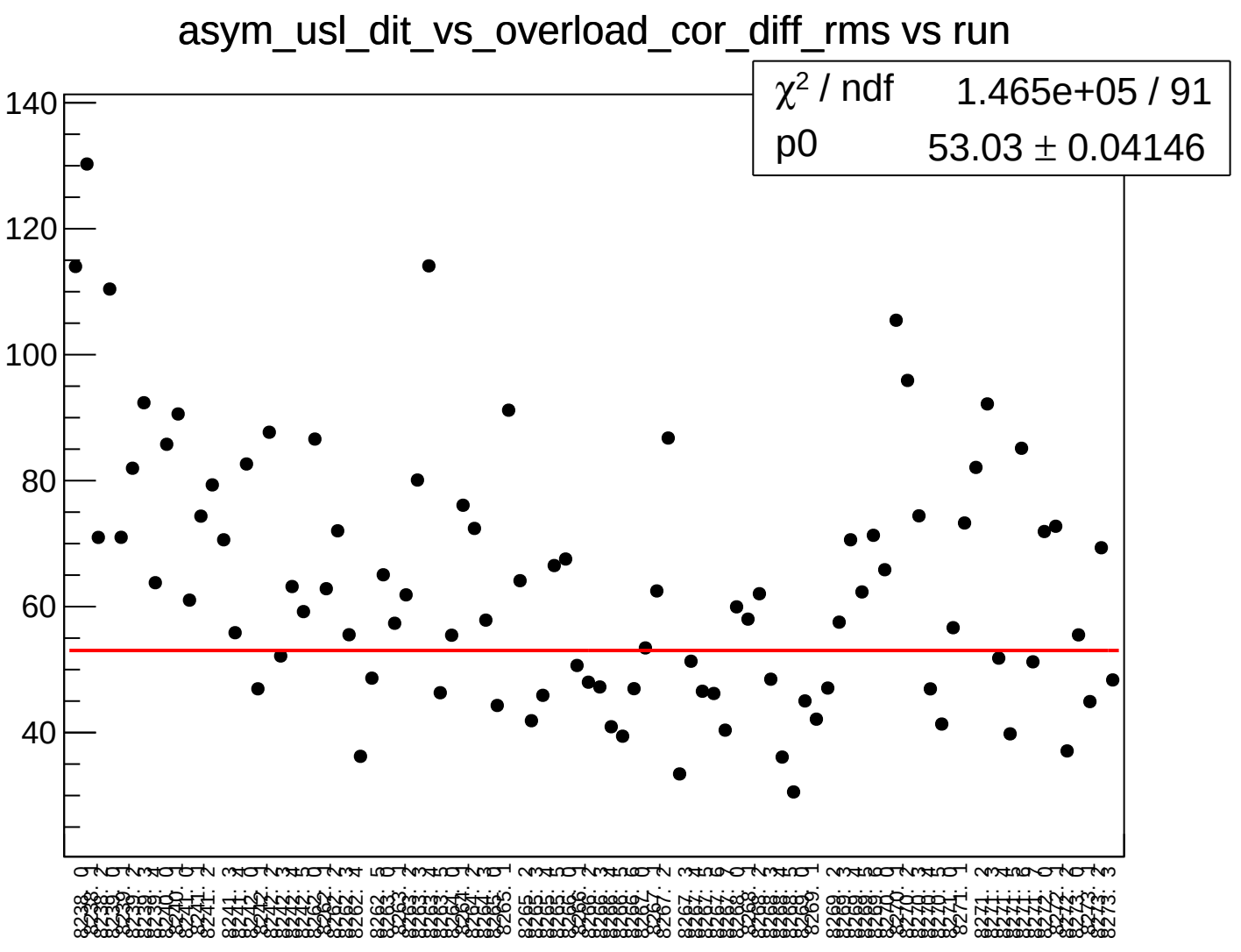

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 4.548e+05 / 91
p0 29.78 ± 0.02584
120
100
80
60
40
20

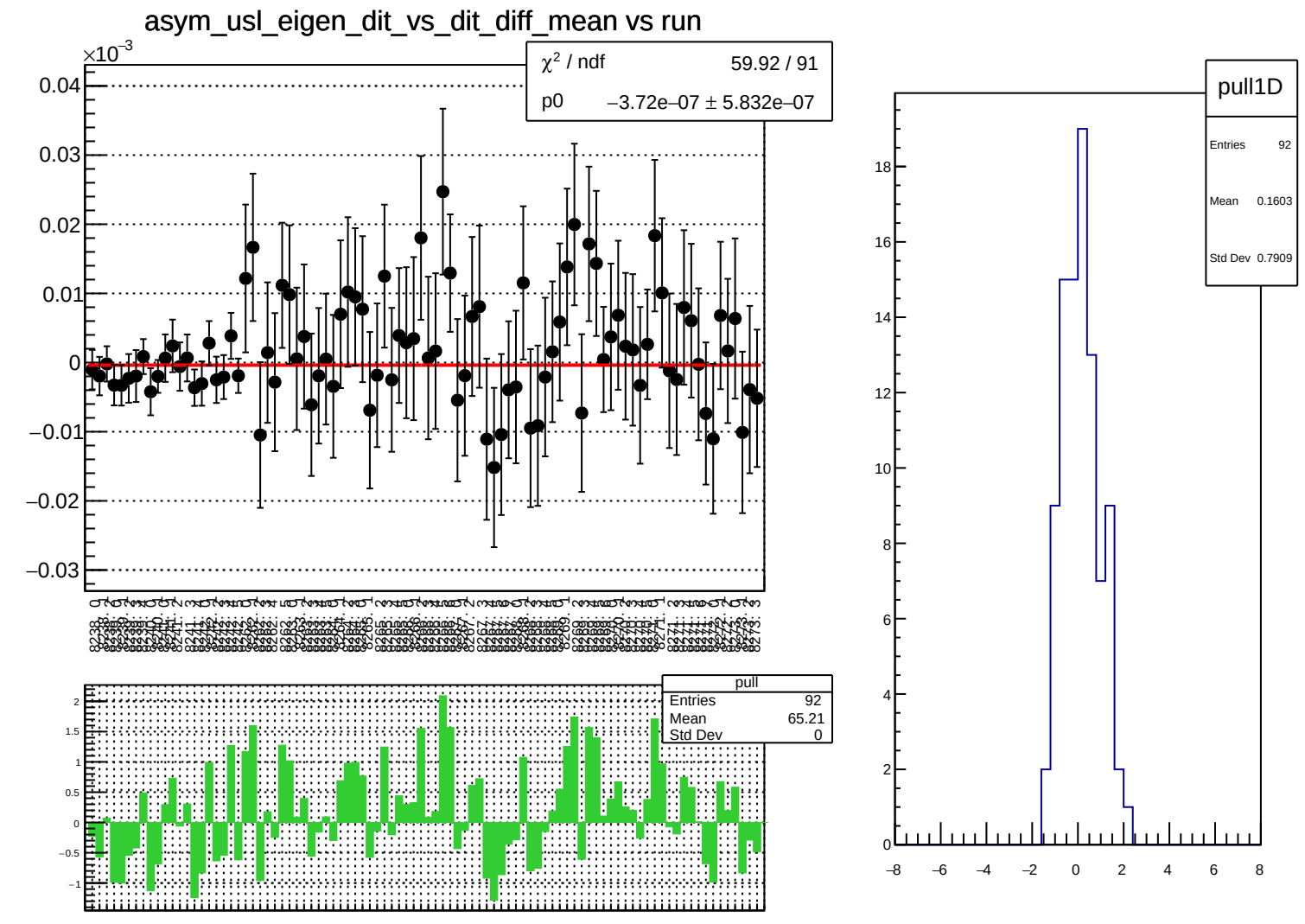

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.05 / 91
p0 0.04925 ± 0.03655
pull
Entries 92
Mean −59.38
Std Dev 0

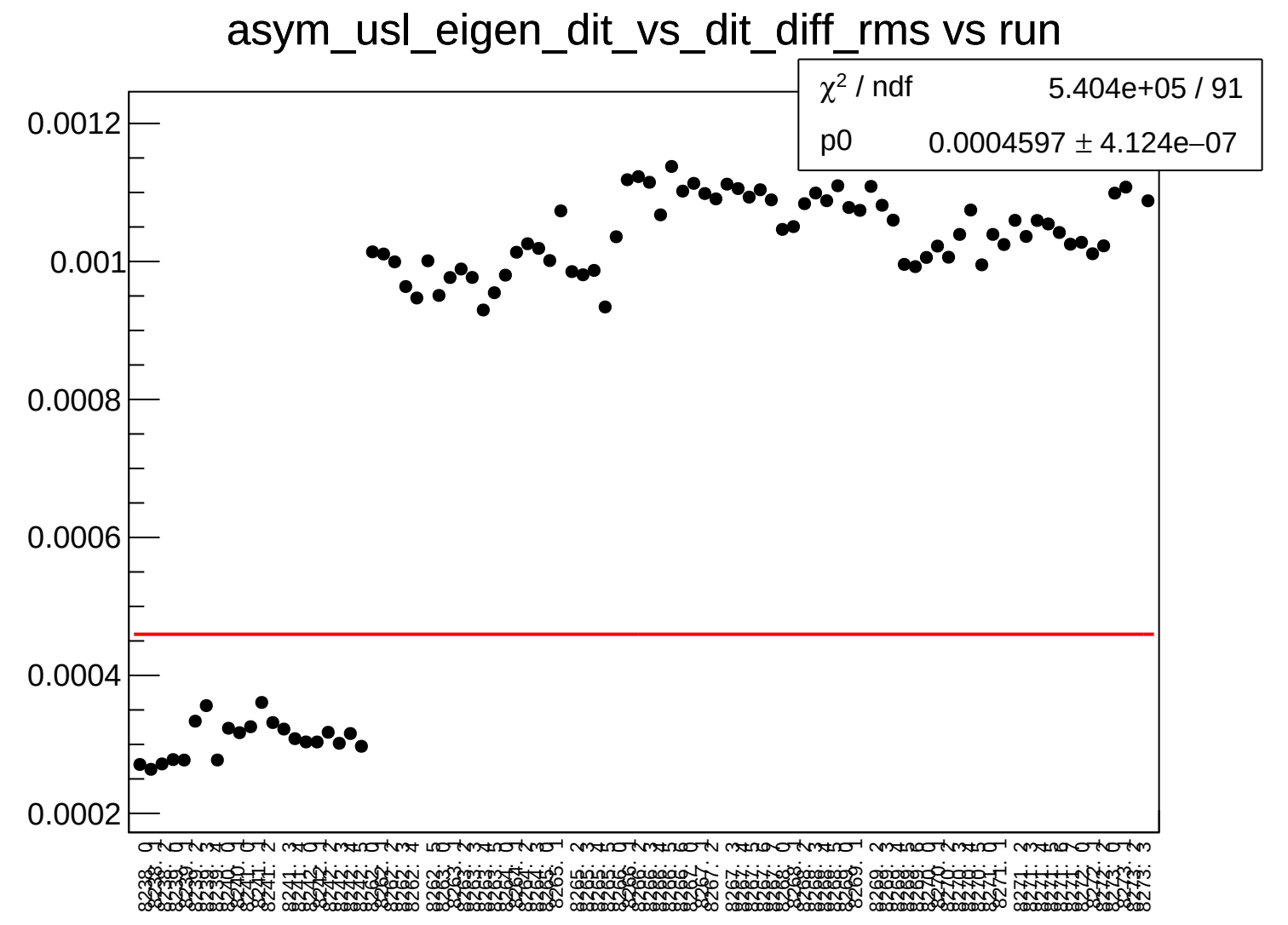

pull1D
Entries 92
Mean −0.01367
Std Dev 0.9614

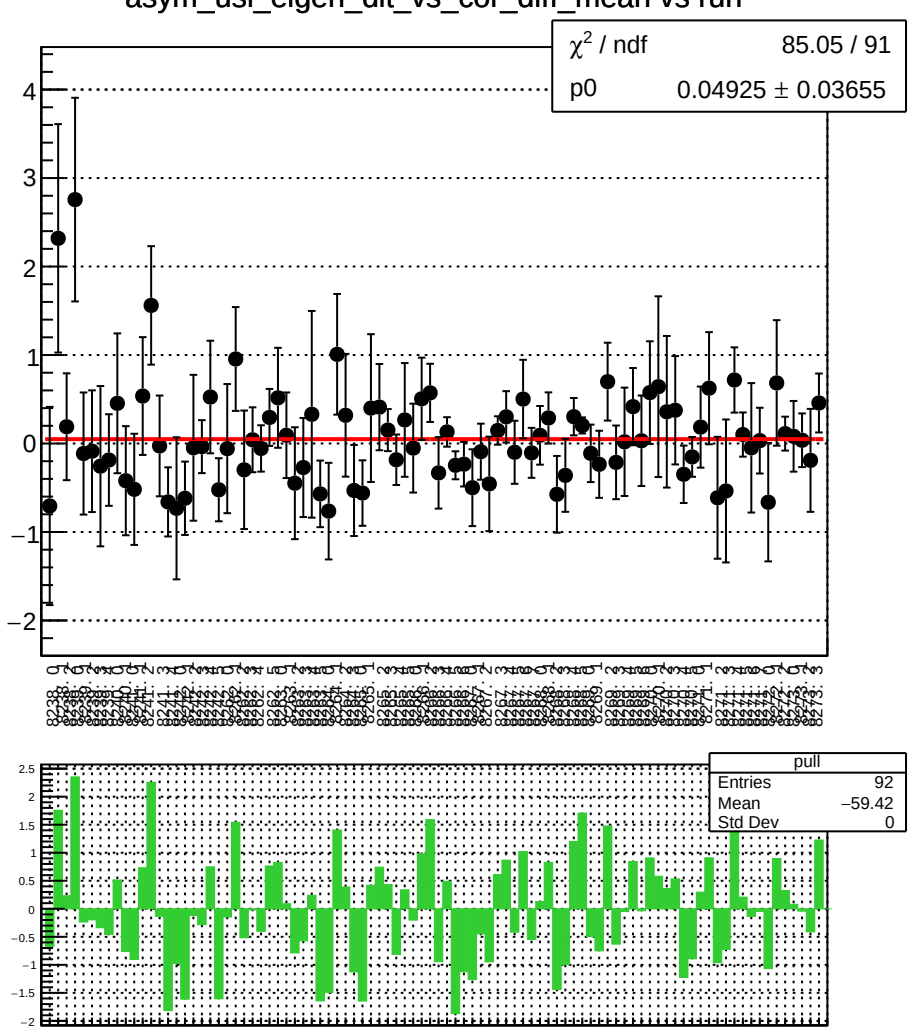

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.548e+05 / 91
p0 29.78 ± 0.02584
120
100
80
60
40
20

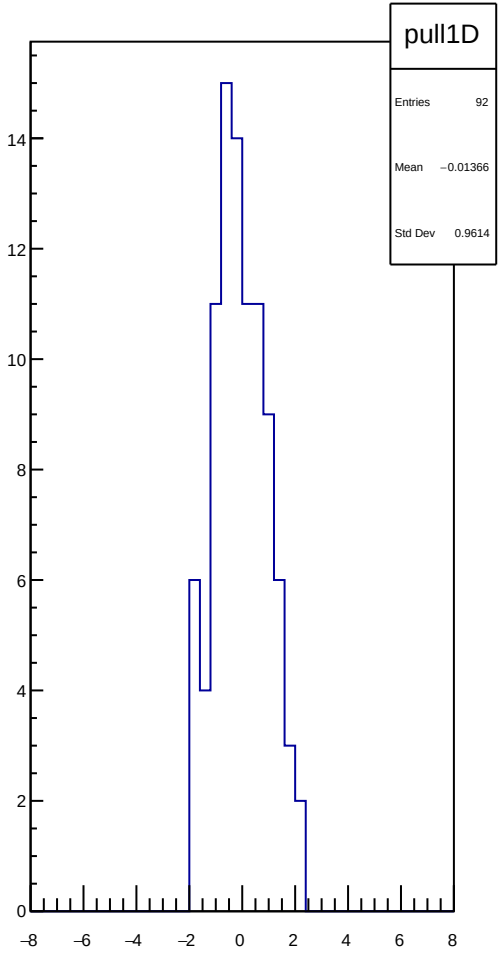

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 83.5 / 91
p0 0.05529 ± 0.05863
pull
Entries 92
Mean 15.16
Std Dev 84.8
pull1D
Entries 92
Mean 0.01566
Std Dev 0.9525

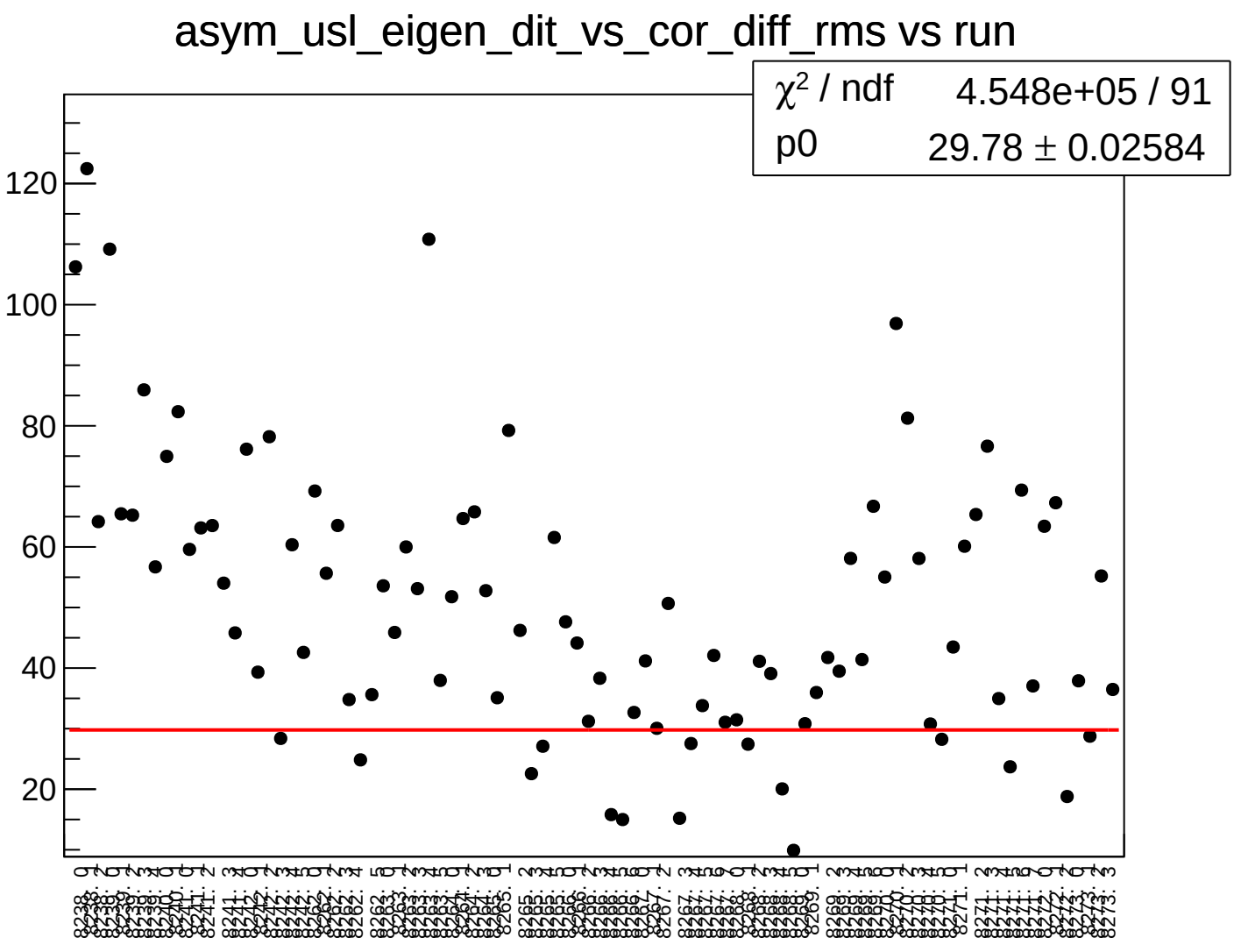

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.465e+05 / 91
p0 53.03 ± 0.04146
140
120
100
80
60
40

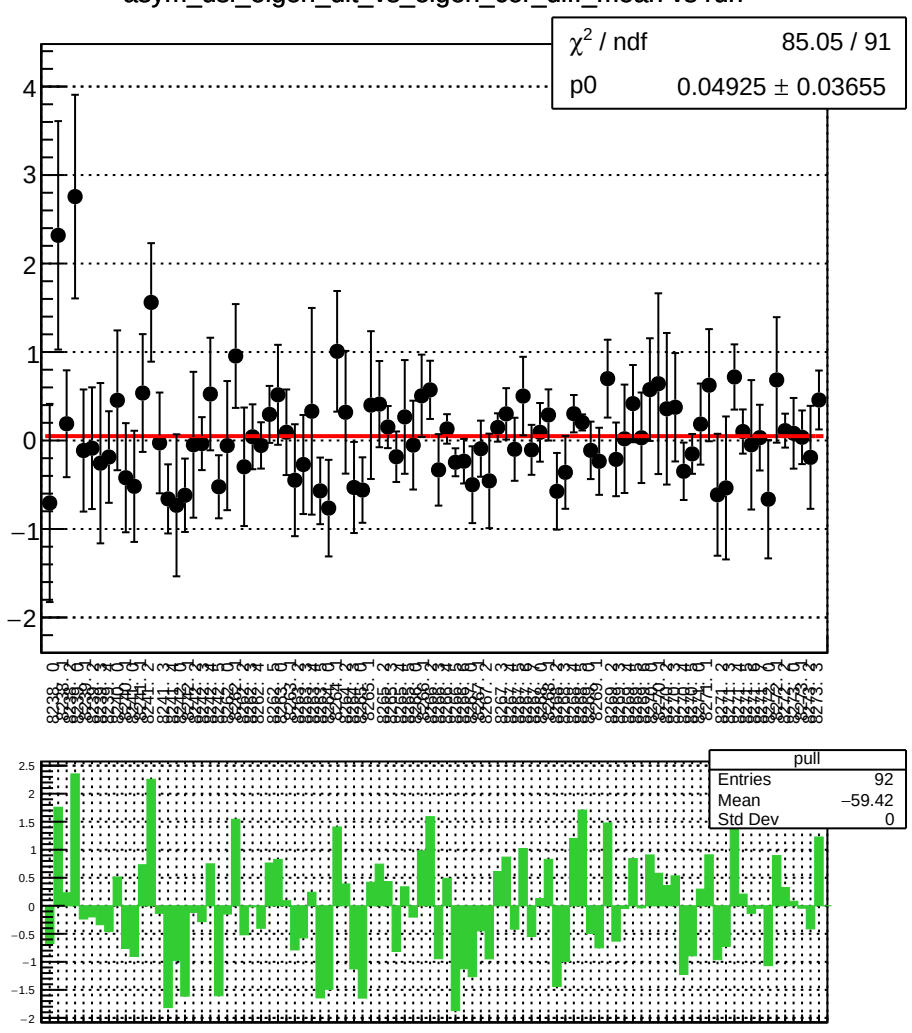

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 59.92 / 91
p0 −3.72e−07 ± 5.832e−07
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean 65.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean 0.1603
Std Dev 0.7909
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

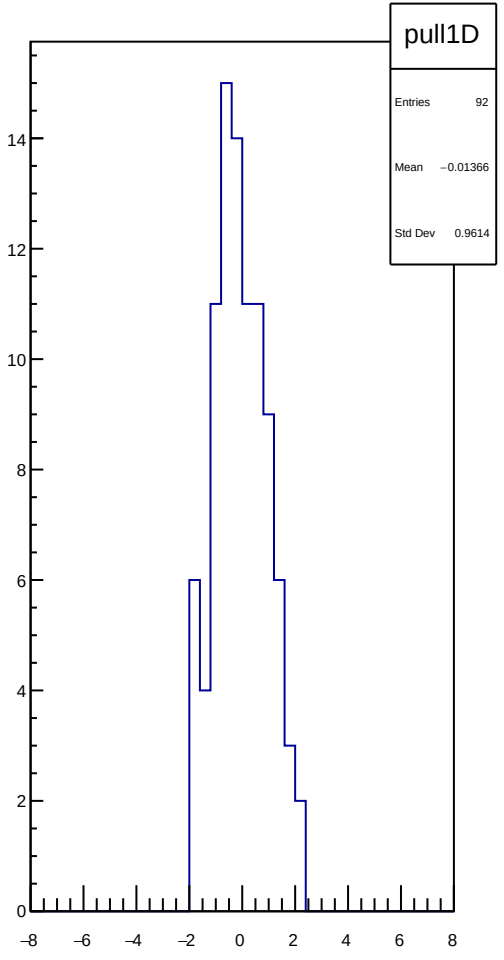

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.404e+05 / 91
p0 0.0004597 ± 4.124e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

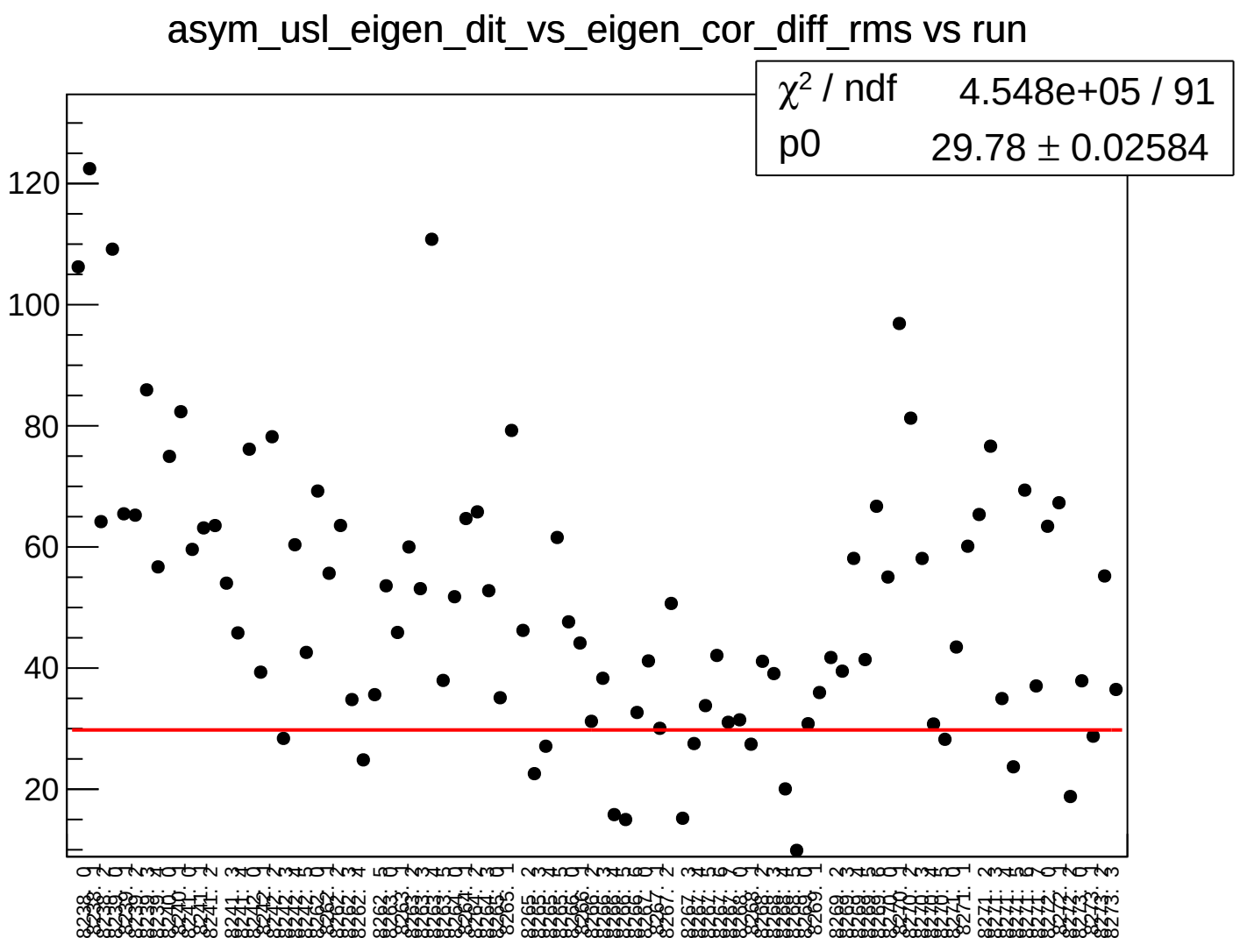

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.05 / 91
p0 0.04925 ± 0.03655
pull
Entries 92
Mean −59.42
Std Dev 0

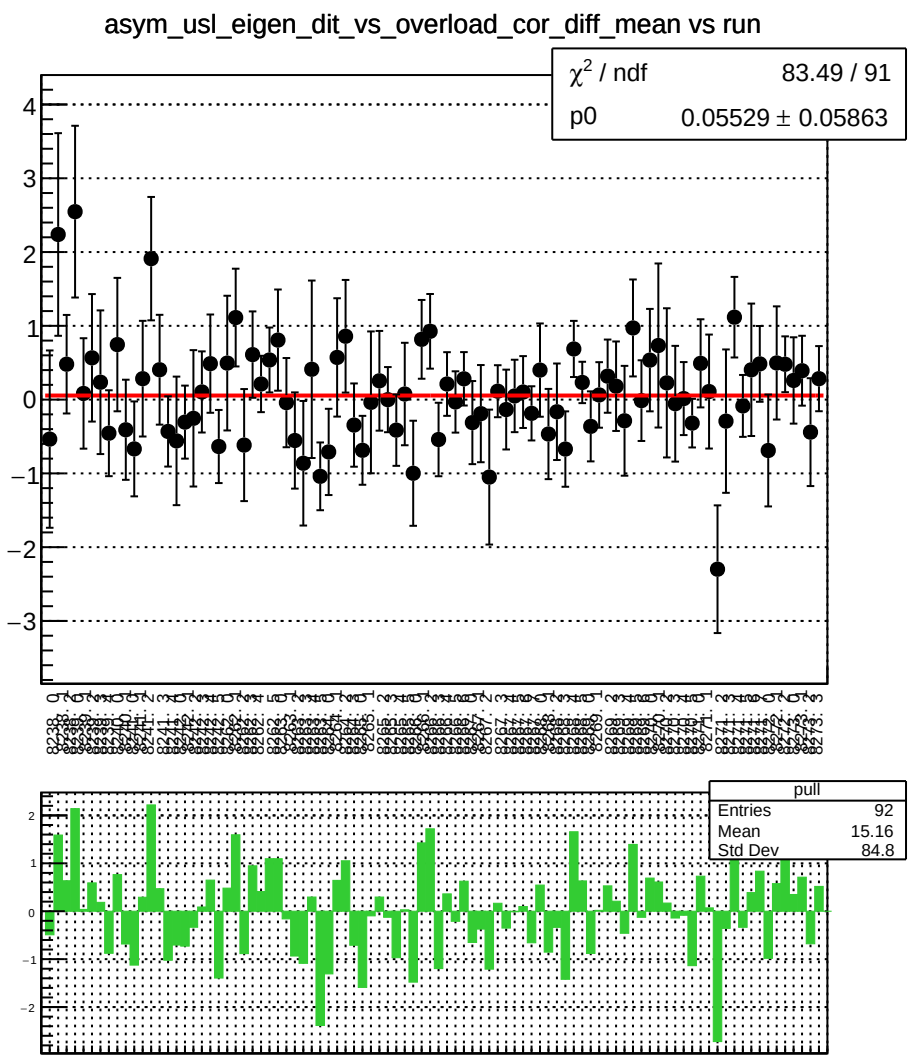

pull1D
Entries 92
Mean −0.01366
Std Dev 0.9614

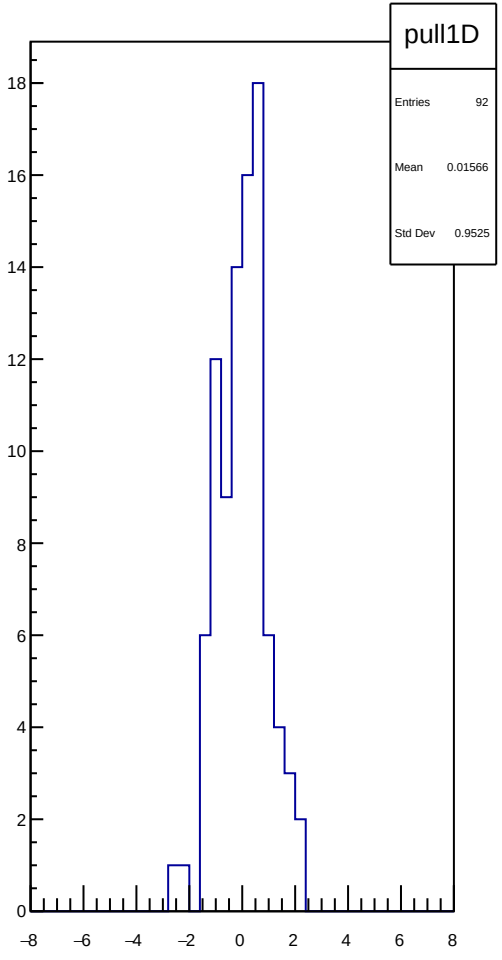

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.548e+05 / 91
p0 29.78 ± 0.02584
120
100
80
60
40
20

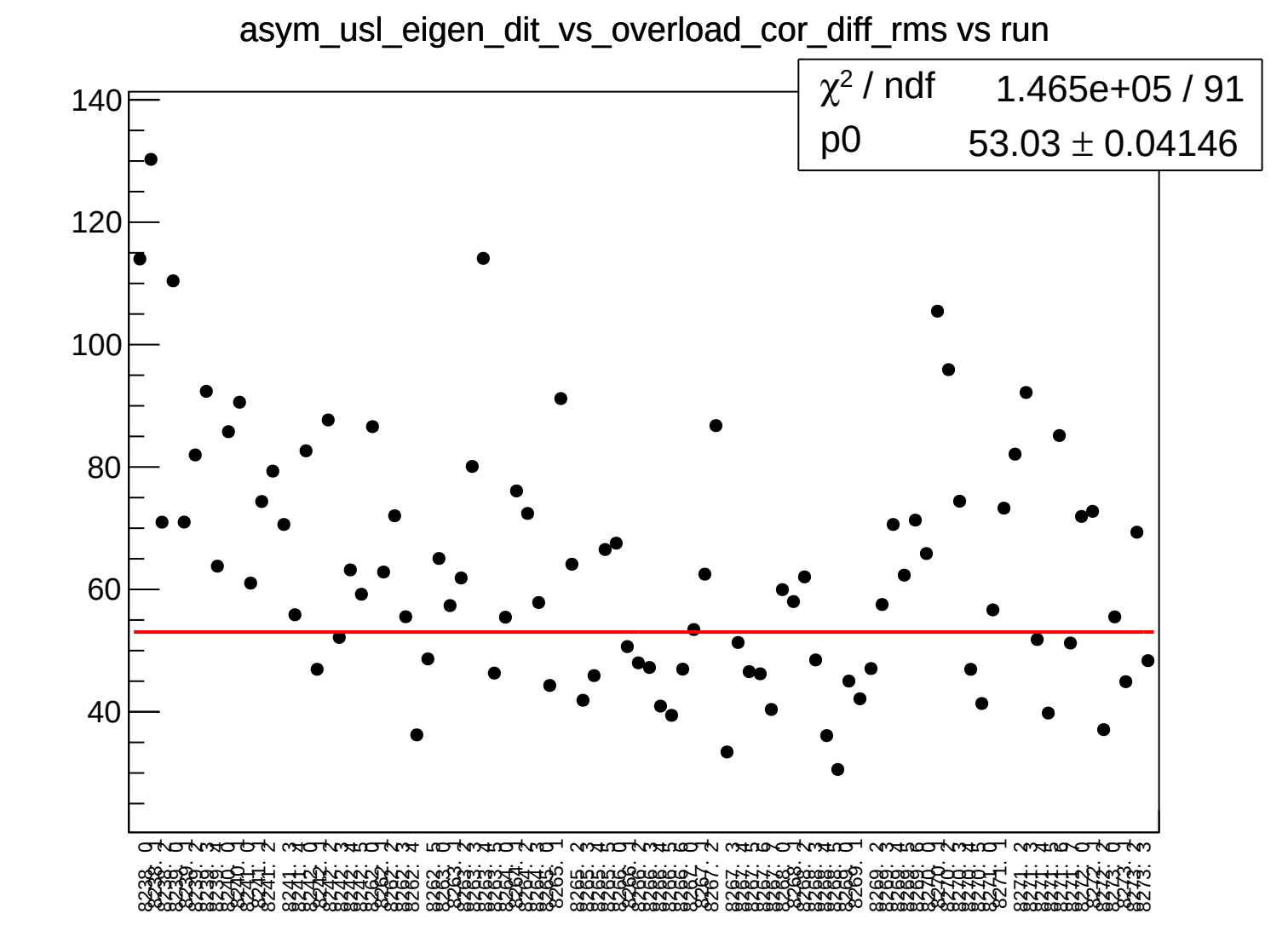

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.05 / 91
p0 0.04925 ± 0.03655
pull
Entries 92
Mean −59.42
Std Dev 0

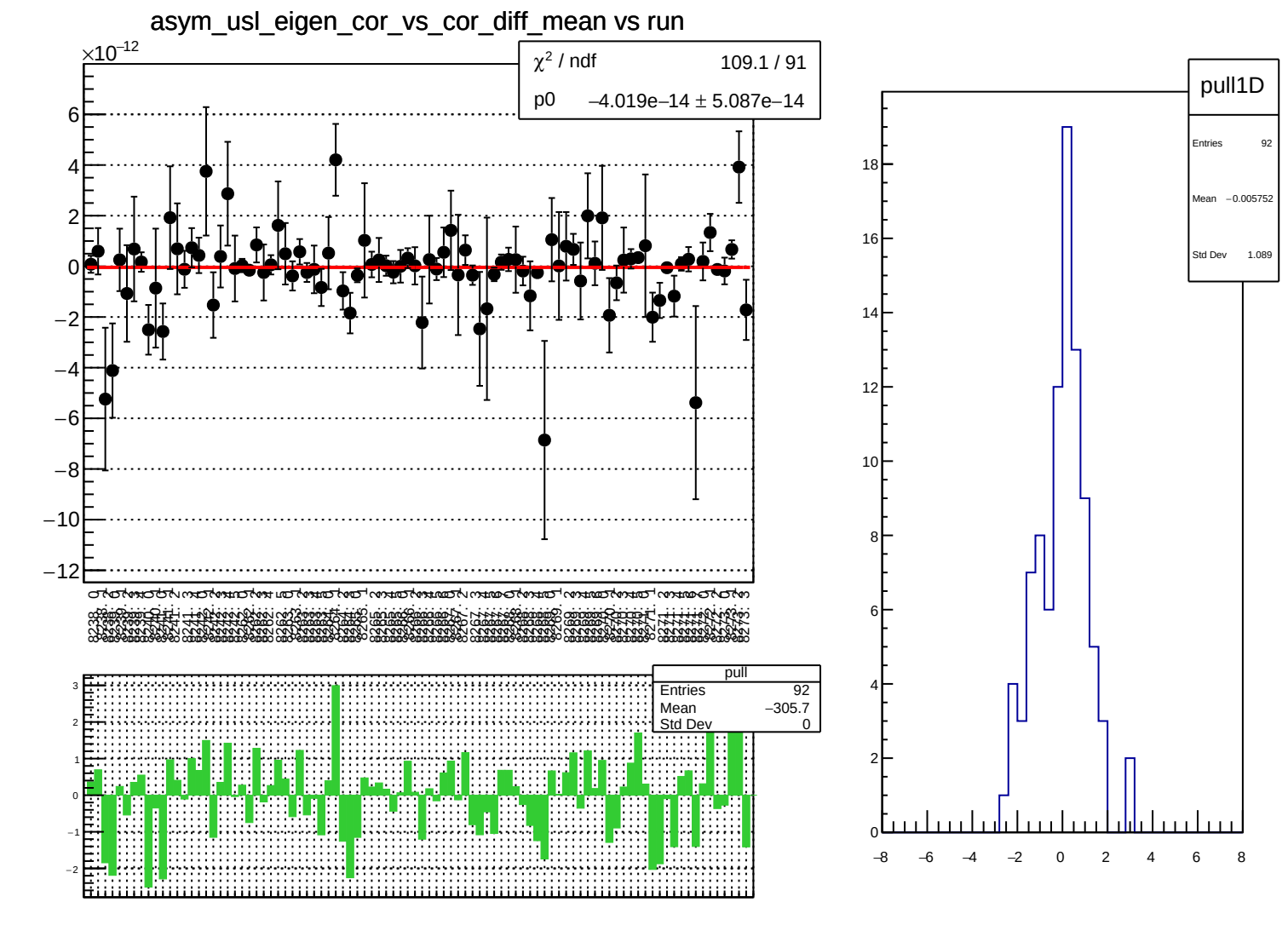

pull1D
Entries 92
Mean −0.01366
Std Dev 0.9614

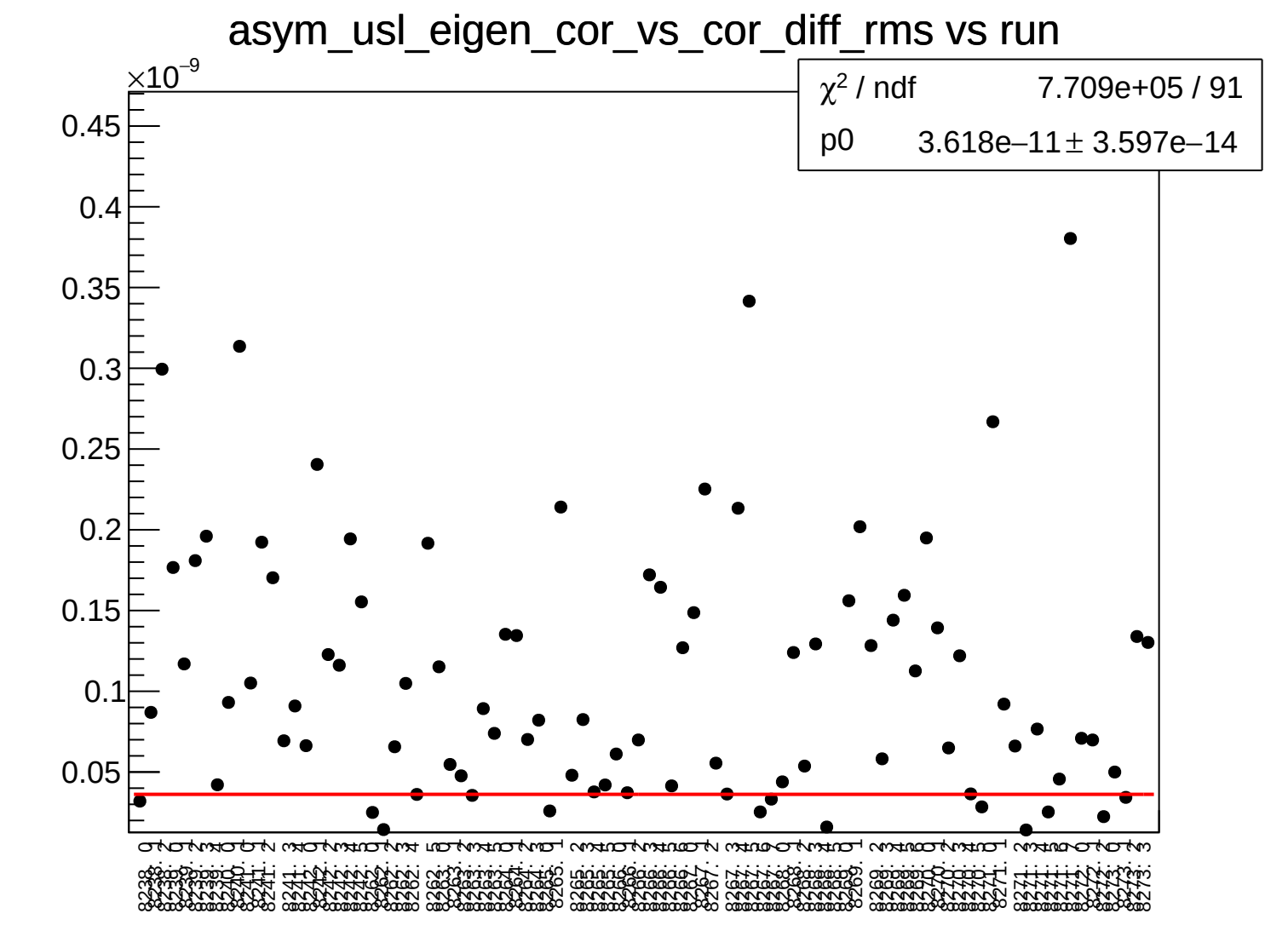

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.548e+05 / 91
p0 29.78 ± 0.02584
120
100
80
60
40
20

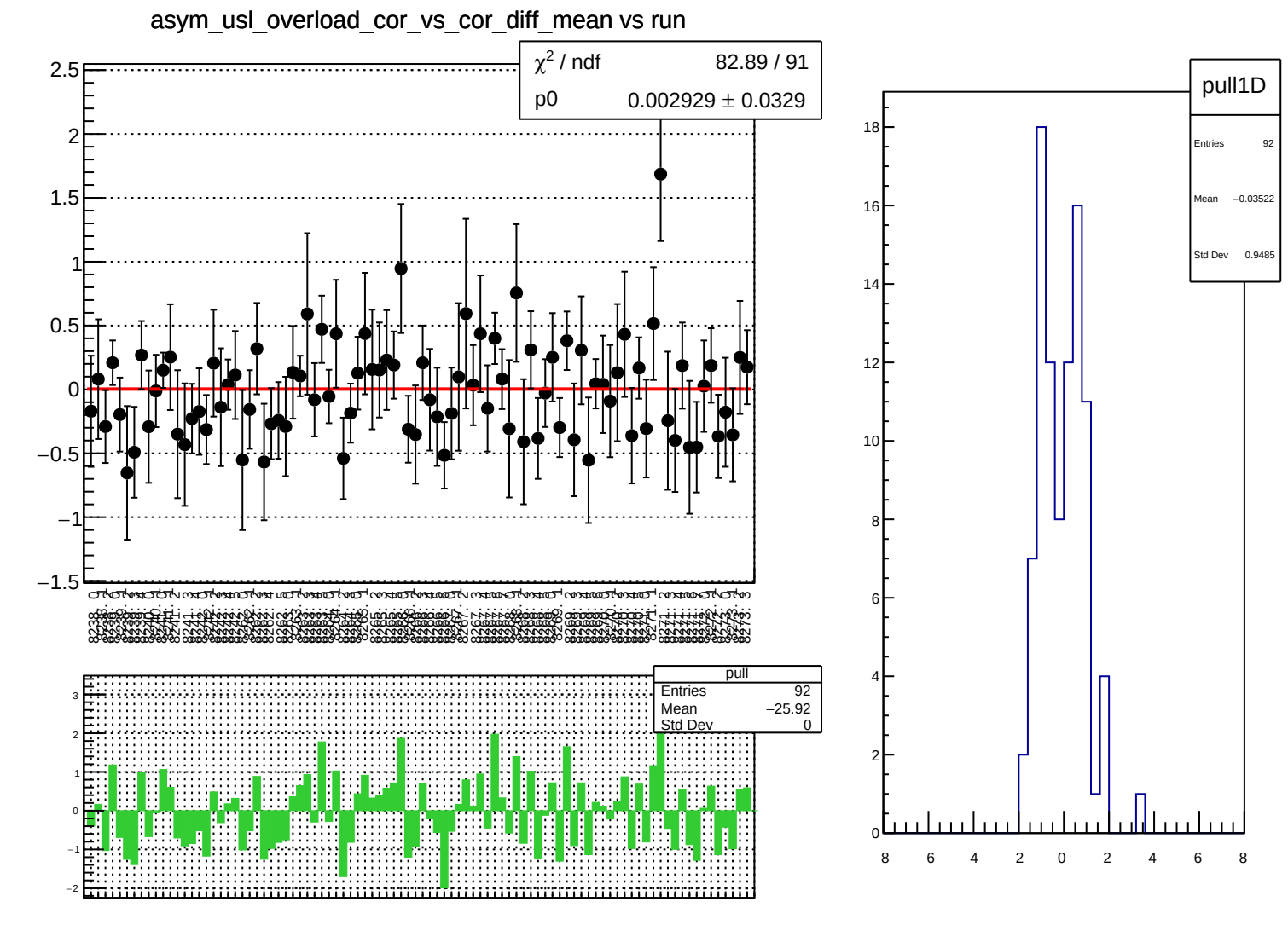

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 83.49 / 91
p0 0.05529 ± 0.05863
pull
Entries 92
Mean 15.16
Std Dev 84.8

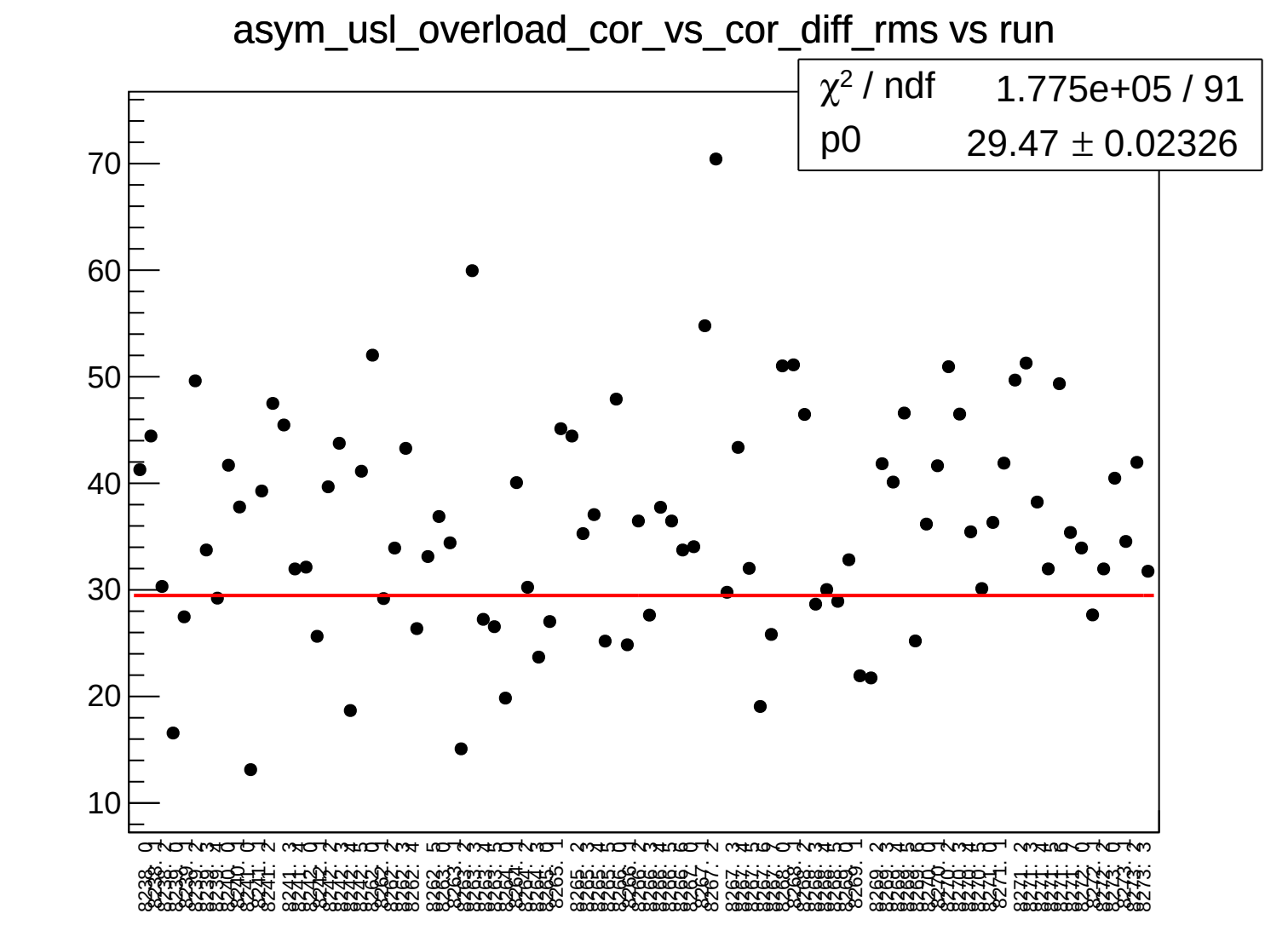

pull1D
Entries 92
Mean 0.01566
Std Dev 0.9525

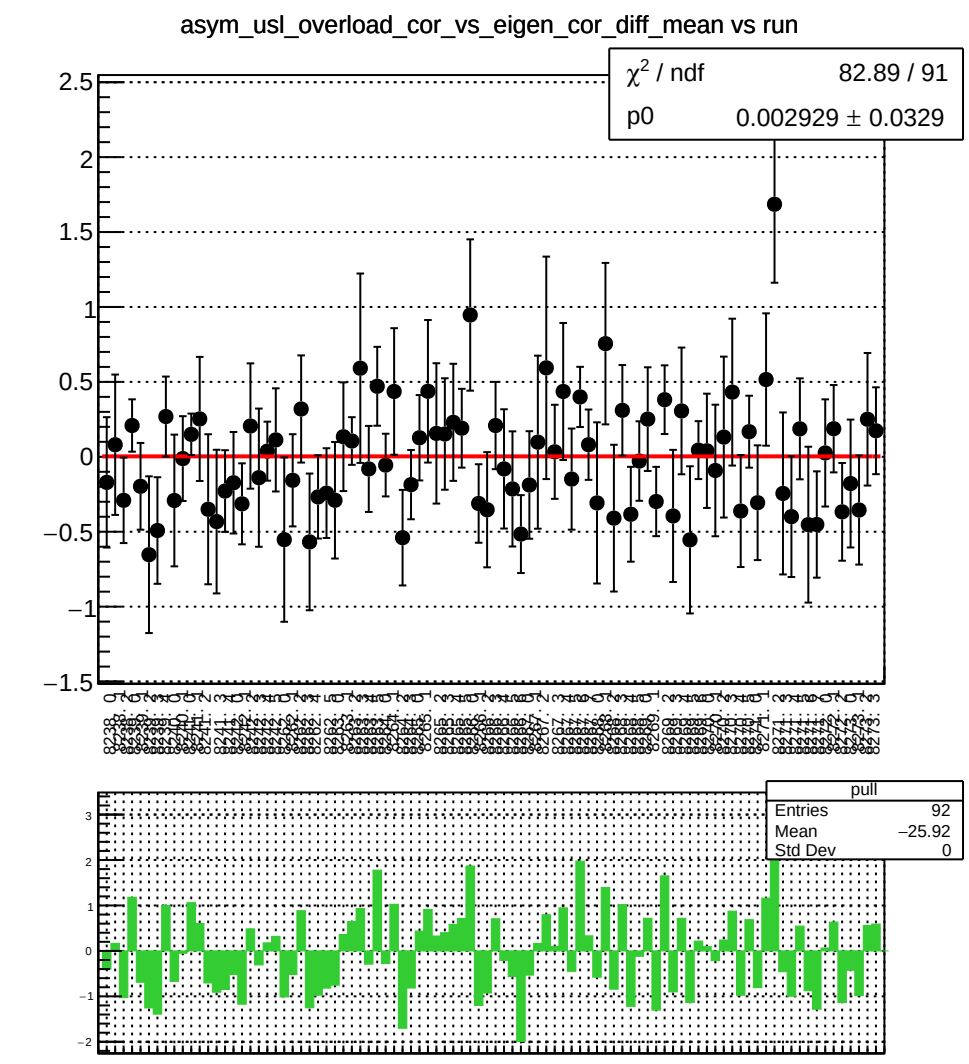

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.465e+05 / 91
p0 53.03 ± 0.04146
140
120
100
80
60
40

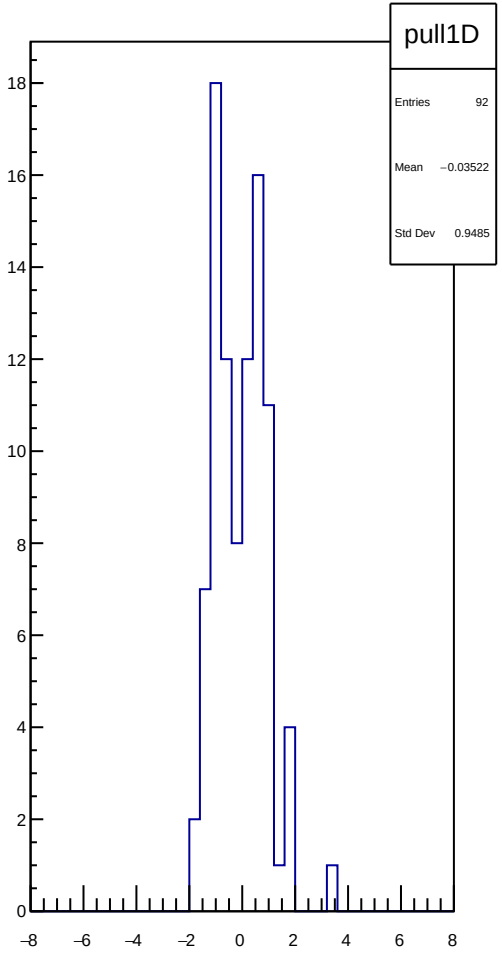

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109.1 / 91
p0 −4.019e−14 ± 5.087e−14
pull
Entries 92
Mean −305.7
Std Dev 0
pull1D
Entries 92
Mean −0.005752
Std Dev 1.089

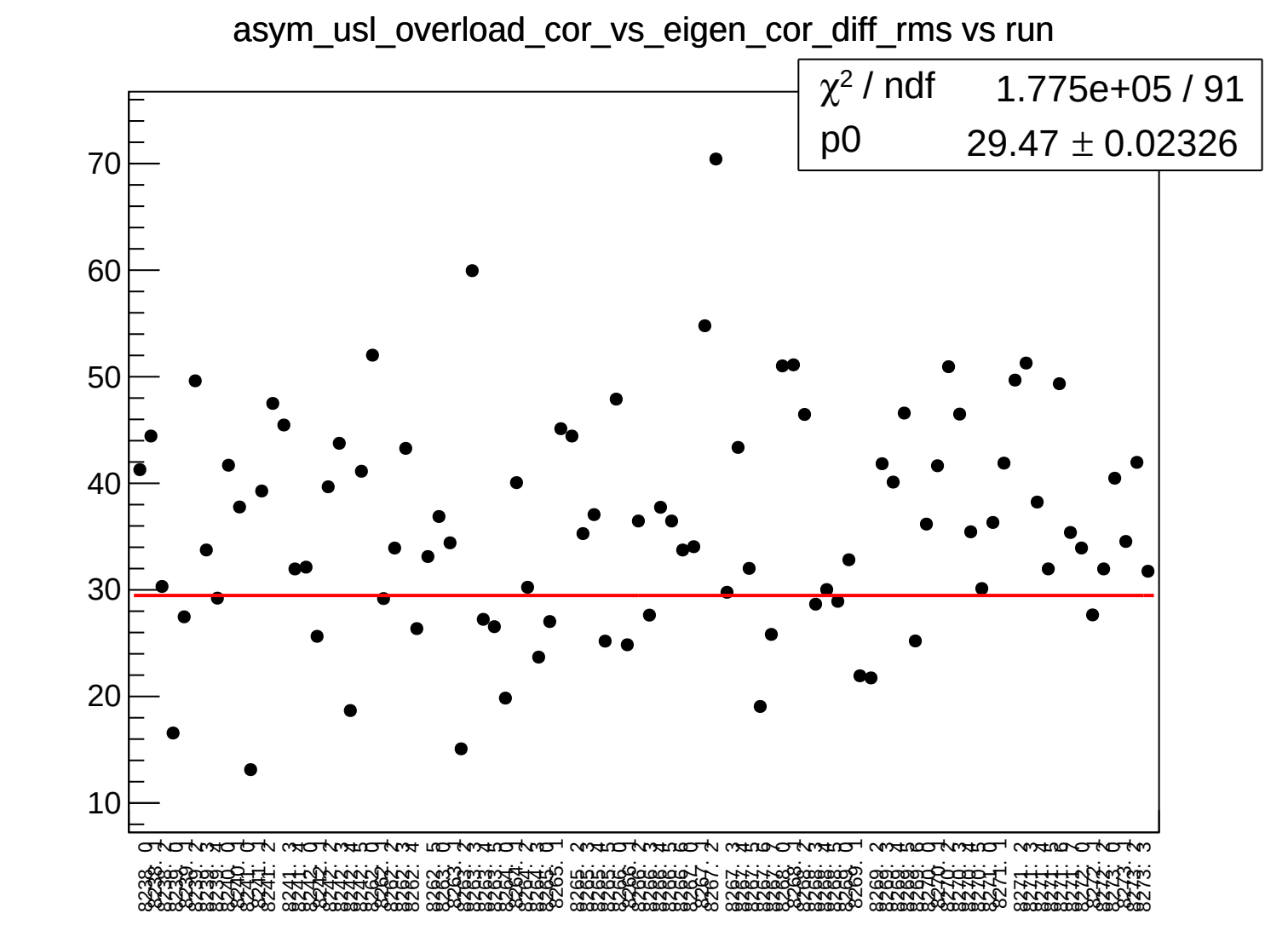

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.709e+05 / 91
p0 3.618e−11 ± 3.597e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

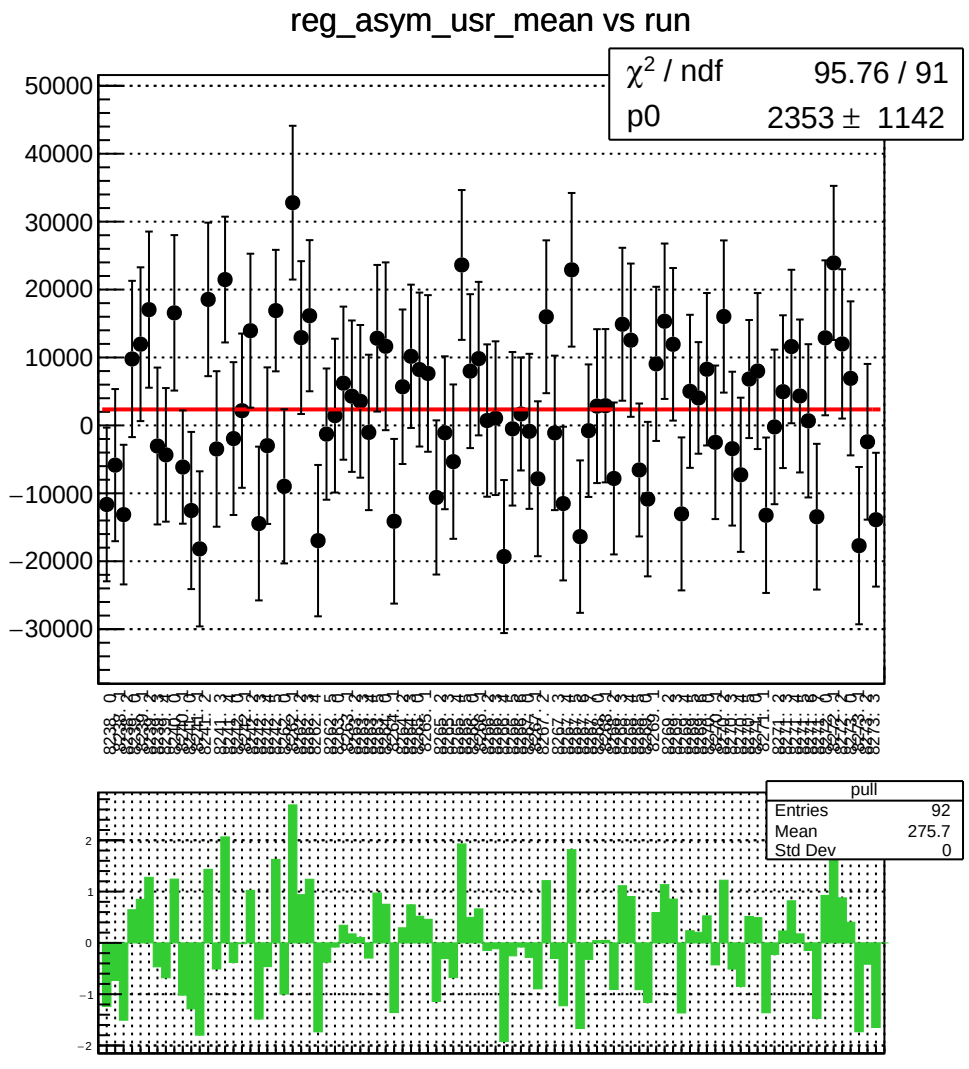

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 82.89 / 91
p0 0.002929 ± 0.0329
pull
Entries 92
Mean −25.92
Std Dev 0
pull1D
Entries 92
Mean −0.03522
Std Dev 0.9485

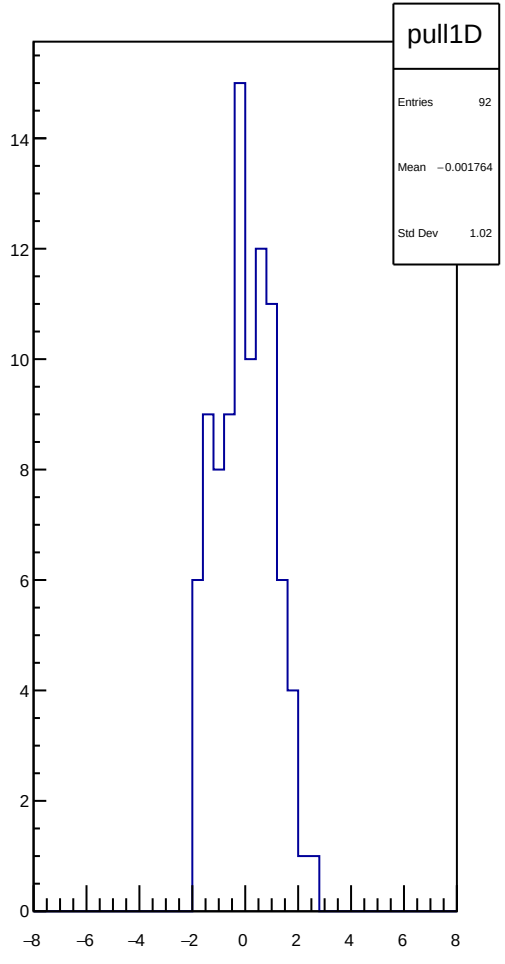

asym_usl_overload_cor_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.775e+05 / 91
p0 29.47 ± 0.02326
70
60
50
40
30
20
10

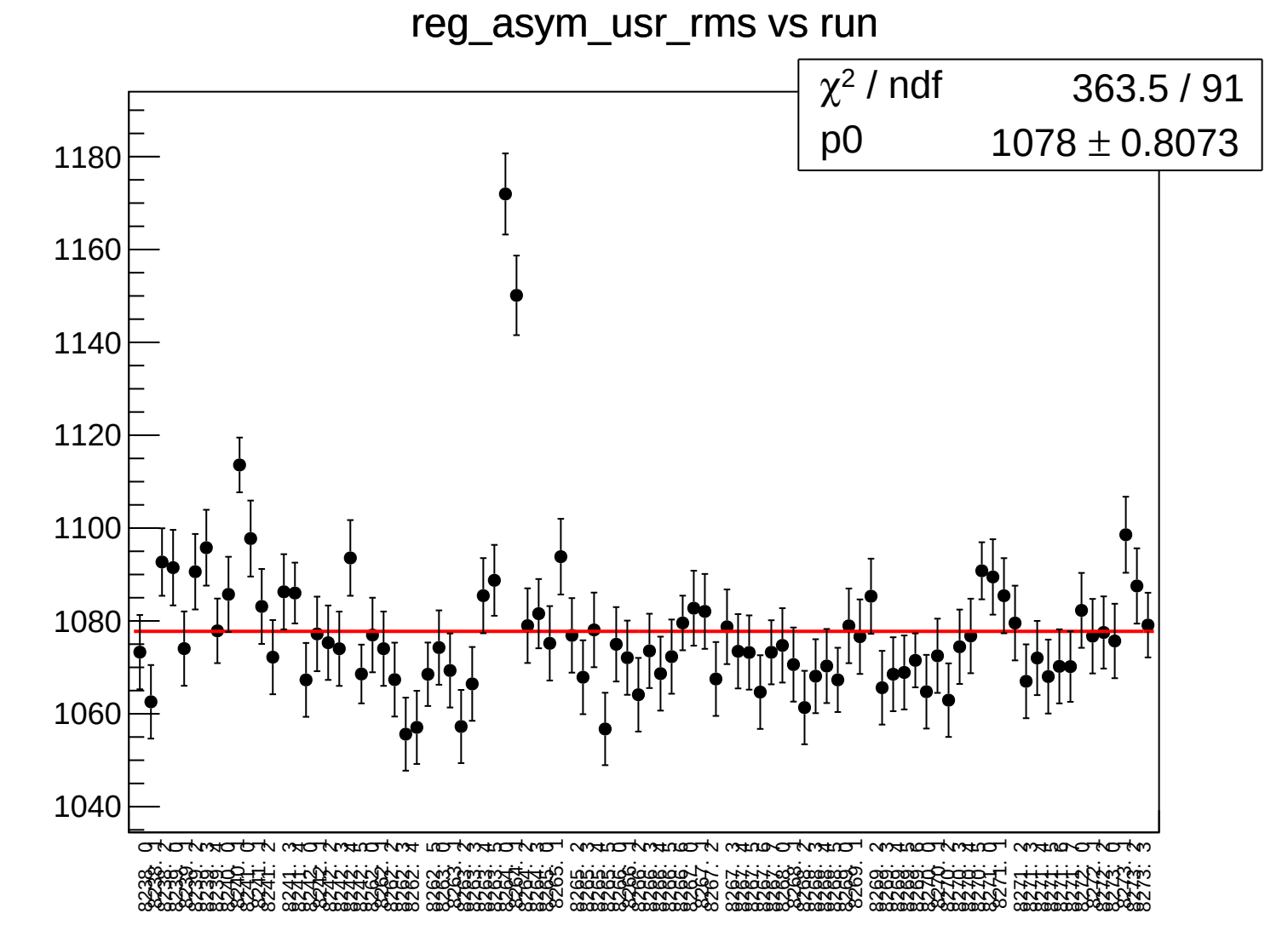

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.89 / 91
p0 0.002929 ± 0.0329
pull
Entries 92
Mean −25.92
Std Dev 0

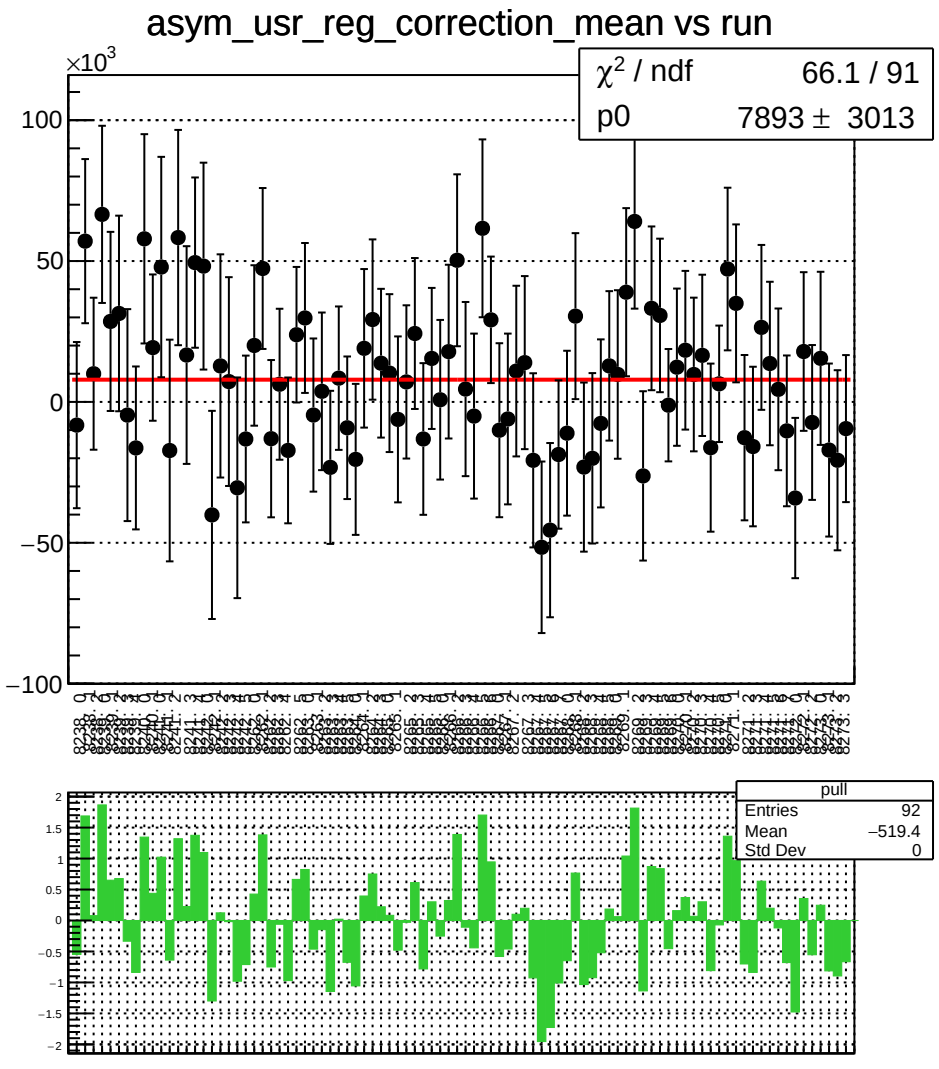

pull1D
Entries 92
Mean −0.03522
Std Dev 0.9485

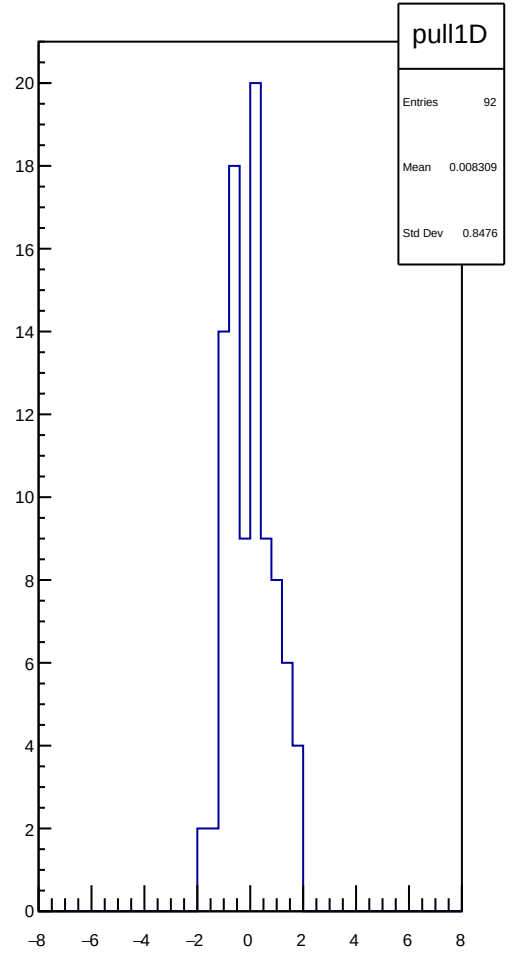

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.775e+05 / 91
p0 29.47 ± 0.02326
70
60
50
40
30
20
10

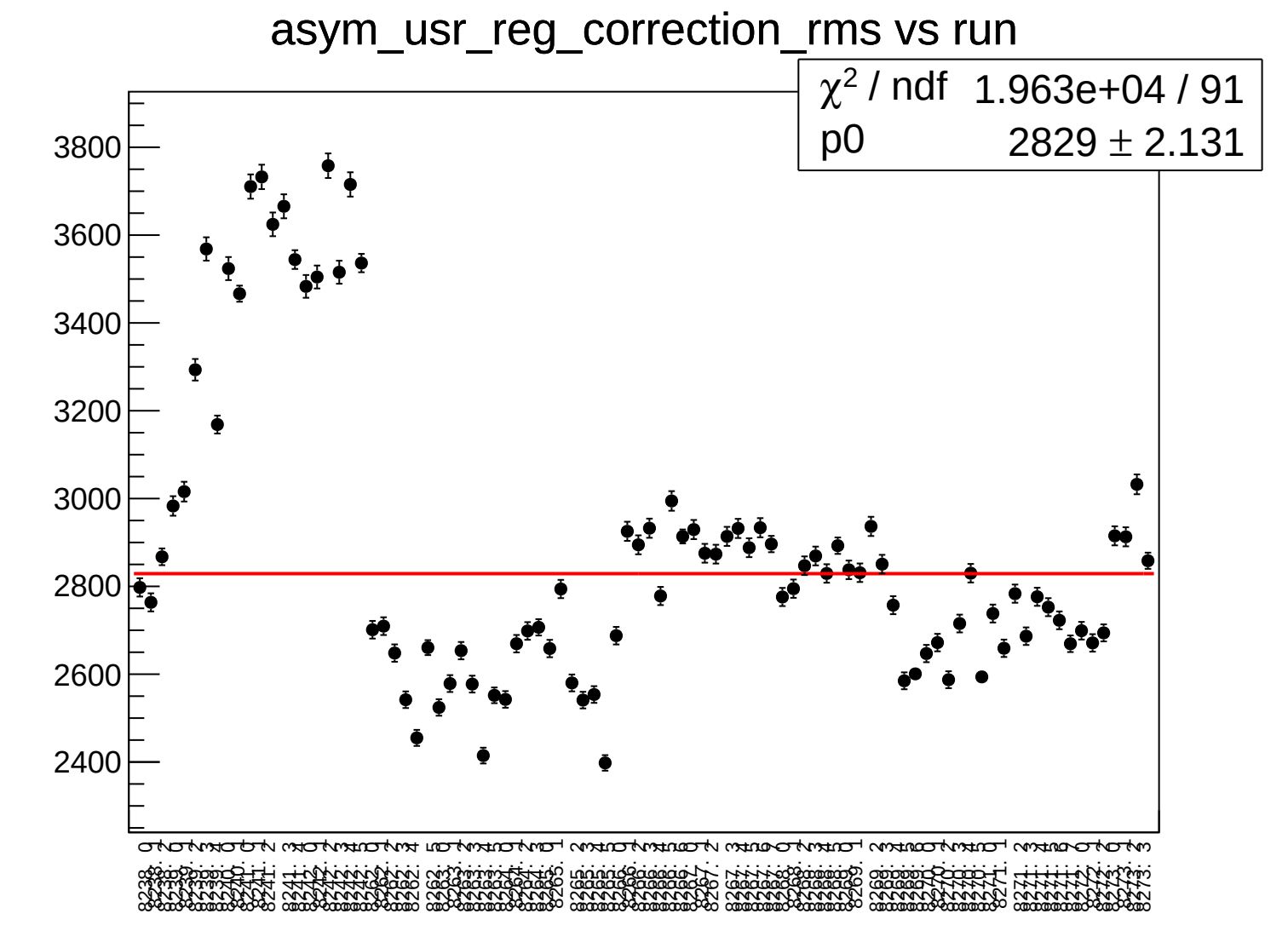

reg_asym_usr_mean vs run
χ² / ndf 95.76 / 91
p0 2353 ± 1142
pull
Entries 92
Mean 275.7
Std Dev 0

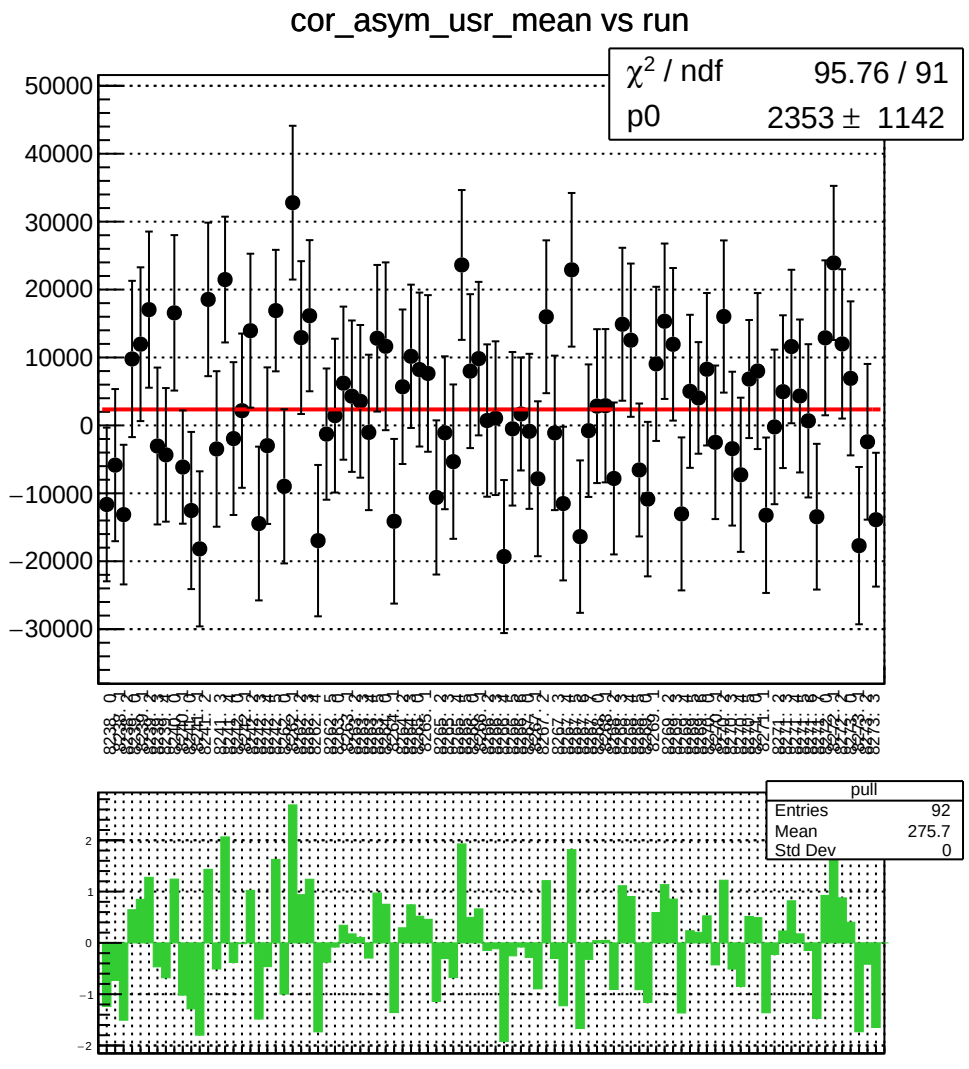

pull1D
Entries 92
Mean −0.001764
Std Dev 1.02

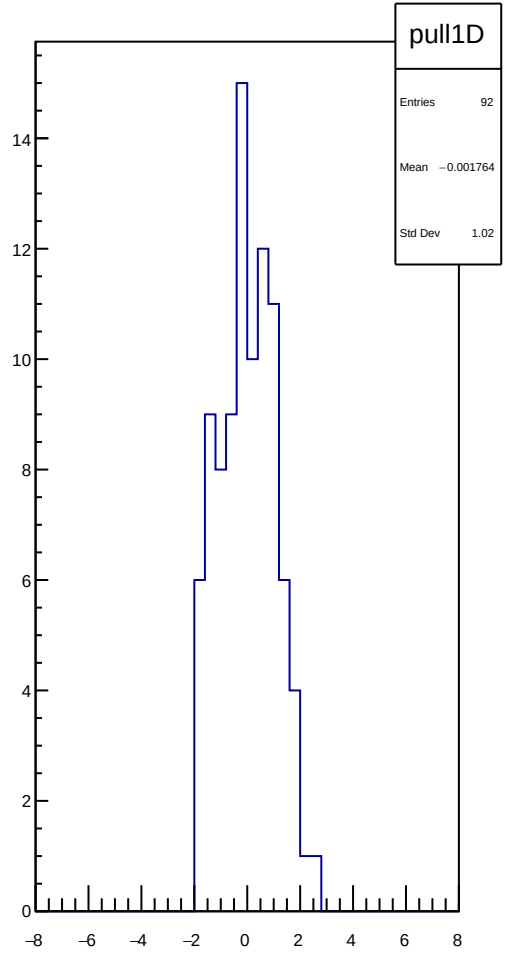

reg_asym_usr_rms vs run
χ² / ndf 363.5 / 91
p0 1078 ± 0.8073
1180
1160
1140
1120
1100
1080
1060
1040

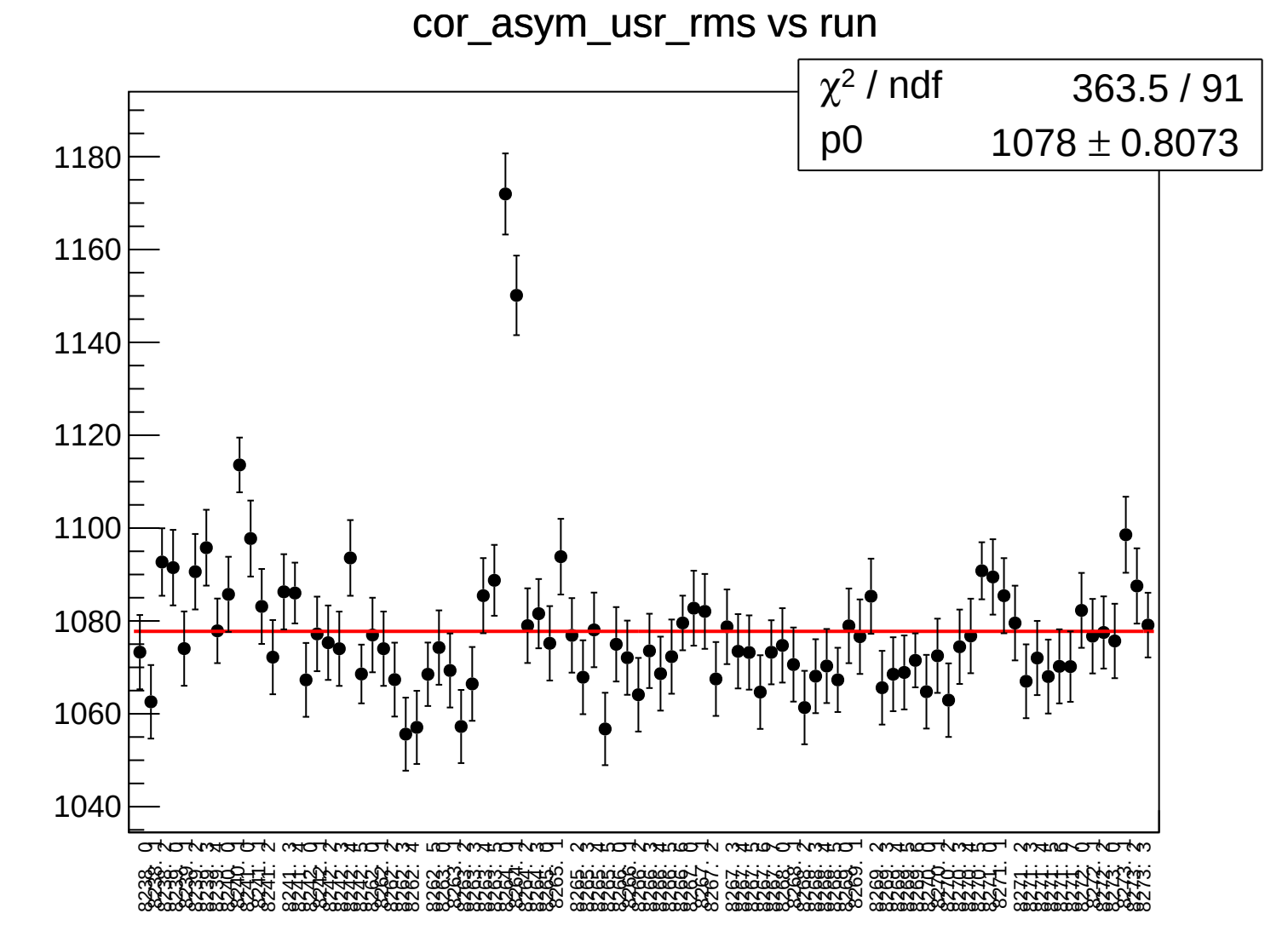

asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 66.1 / 91
p0 7893 ± 3013
100
50
0
−50
−100
pull
Entries 92
Mean −519.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

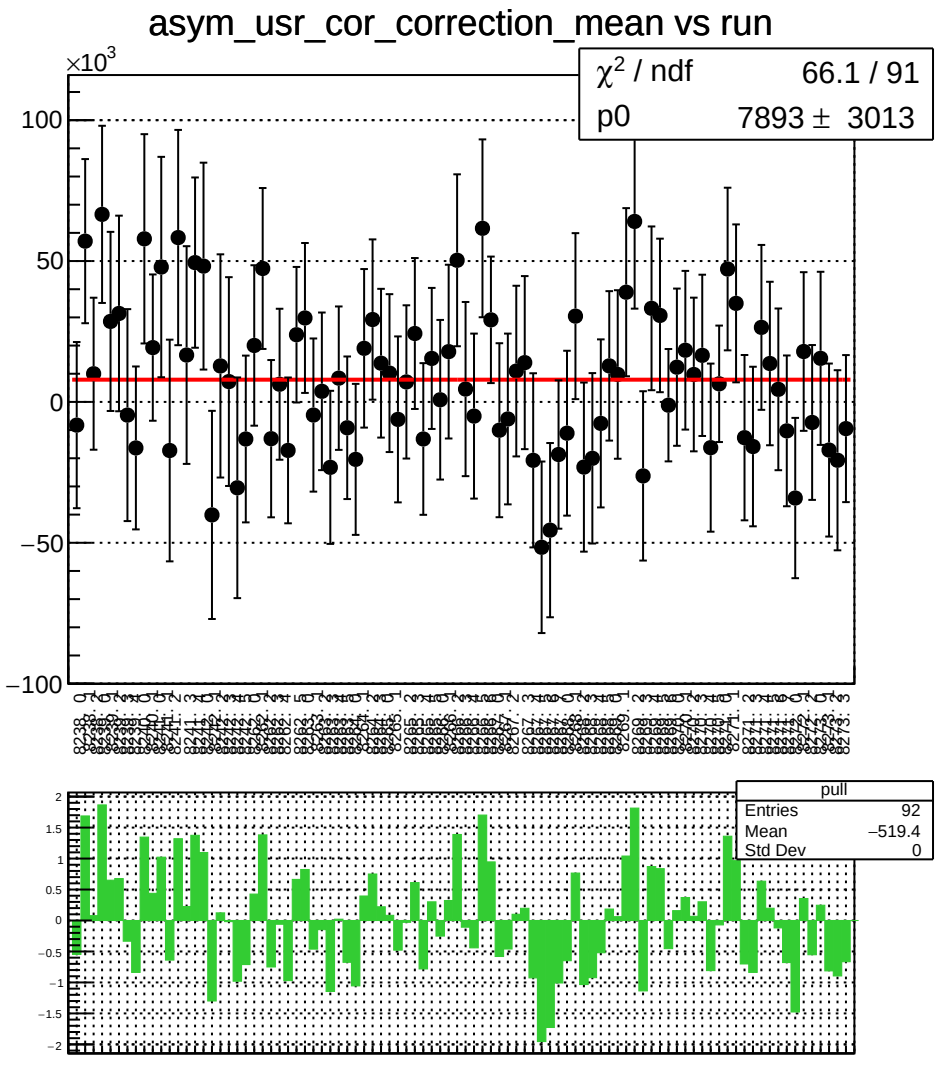

pull1D
Entries 92
Mean 0.008309
Std Dev 0.8476
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

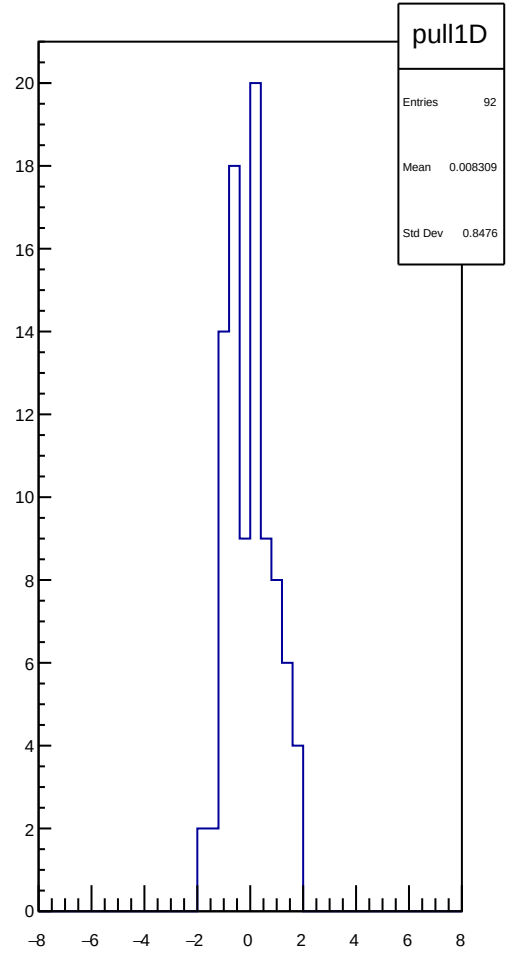

asym_usr_reg_correction_rms vs run
χ² / ndf 1.963e+04 / 91
p0 2829 ± 2.131
3800
3600
3400
3200
3000
2800
2600
2400

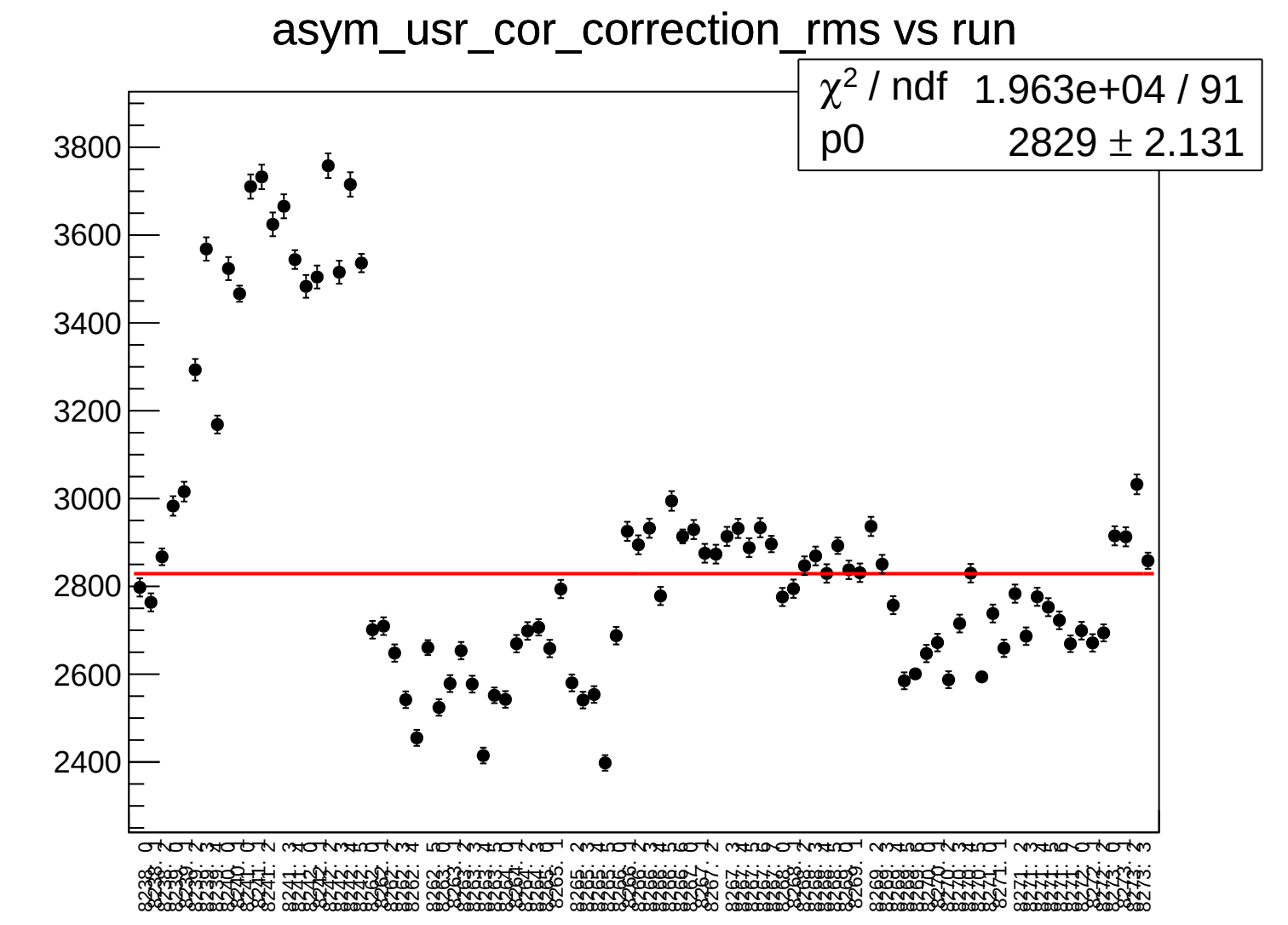

cor_asym_usr_mean vs run
χ² / ndf 95.76 / 91
p0 2353 ± 1142
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 275.7
Std Dev 0
2
1
0
−1
−2

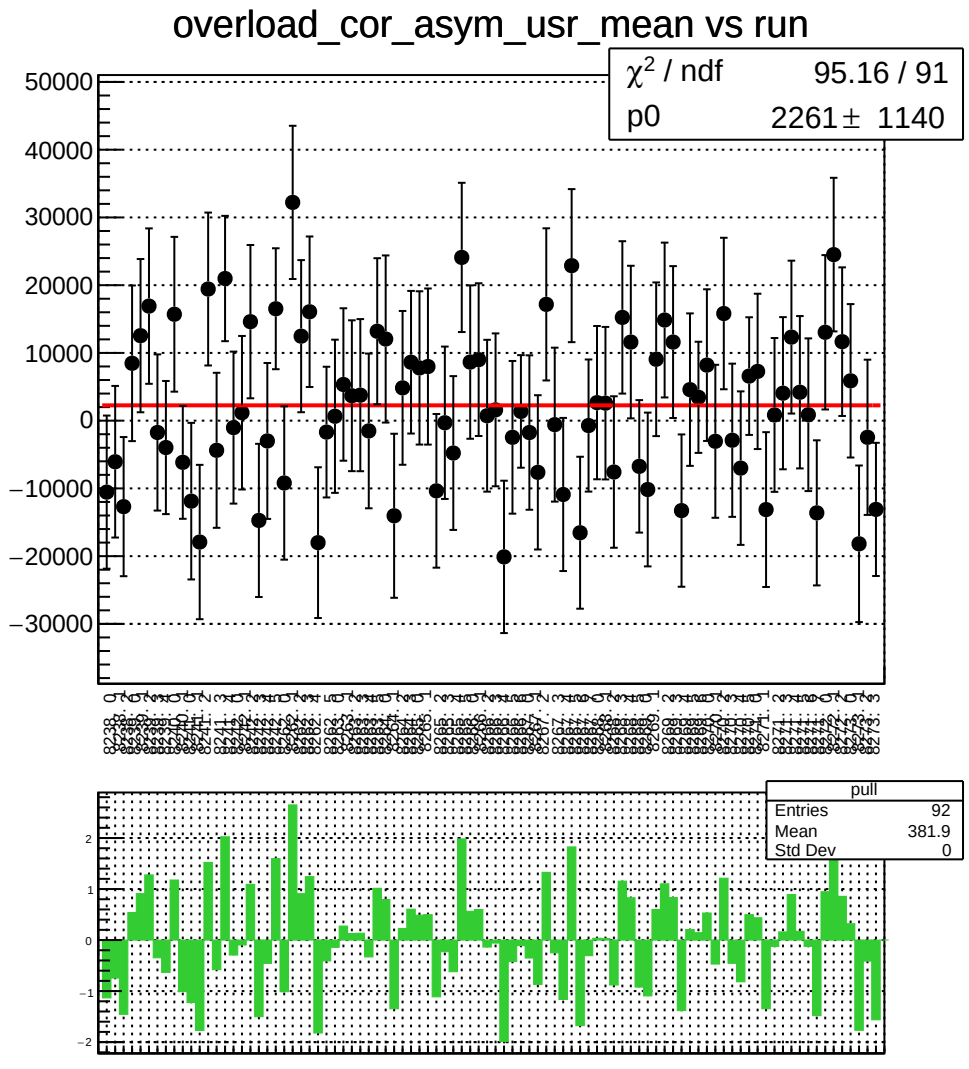

pull1D
Entries 92
Mean −0.001764
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

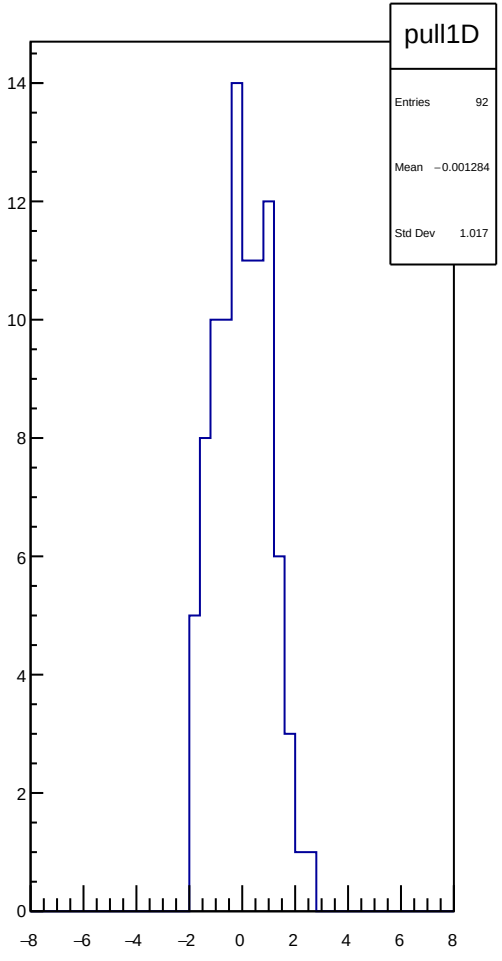

cor_asym_usr_rms vs run
χ² / ndf 363.5 / 91
p0 1078 ± 0.8073
1180
1160
1140
1120
1100
1080
1060
1040

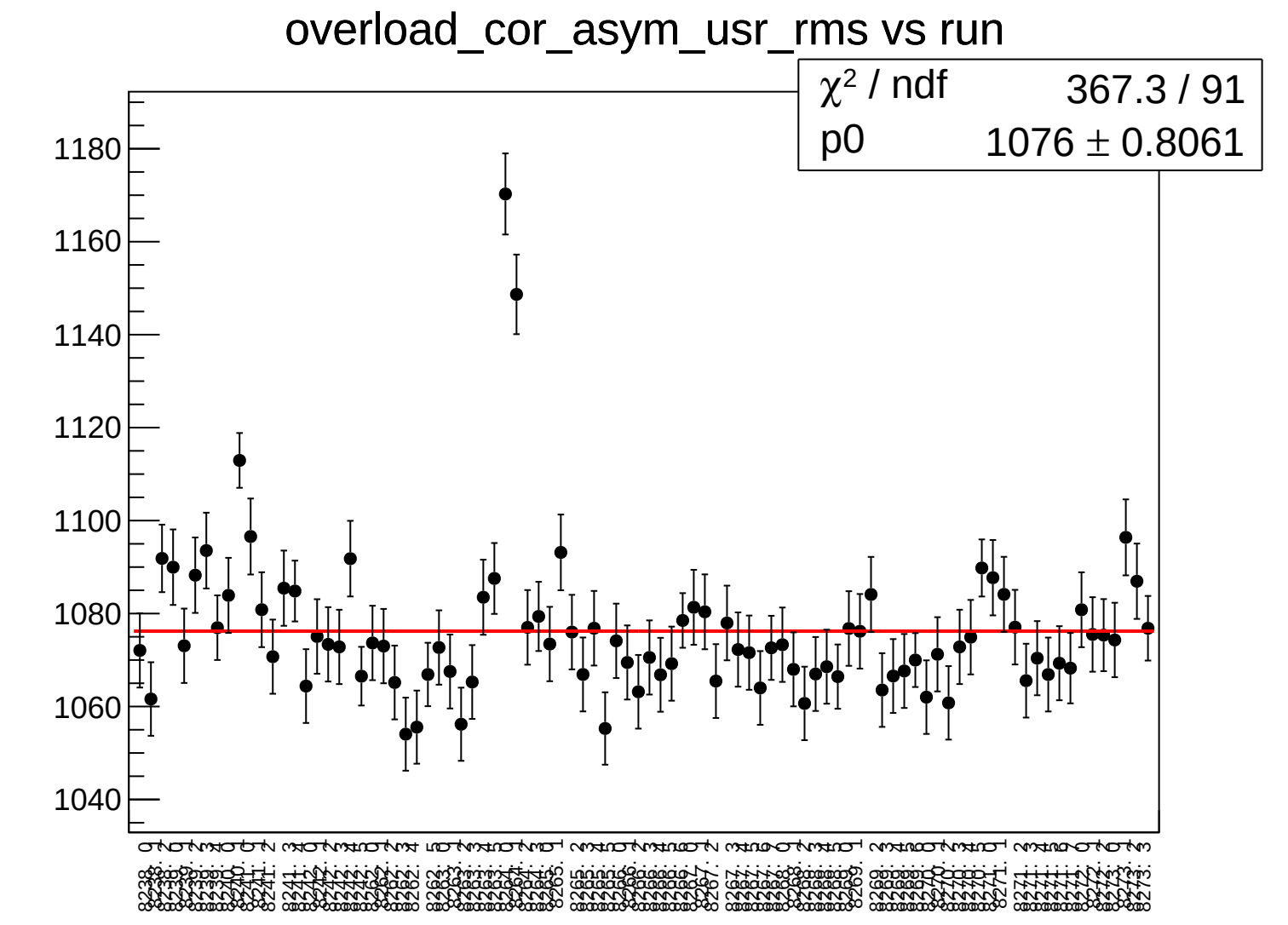

asym_usr_cor_correction_mean vs run
×10^3
χ^2 / ndf 66.1 / 91
p0 7893 ± 3013
100
50
0
−50
−100
pull
Entries 92
Mean −519.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

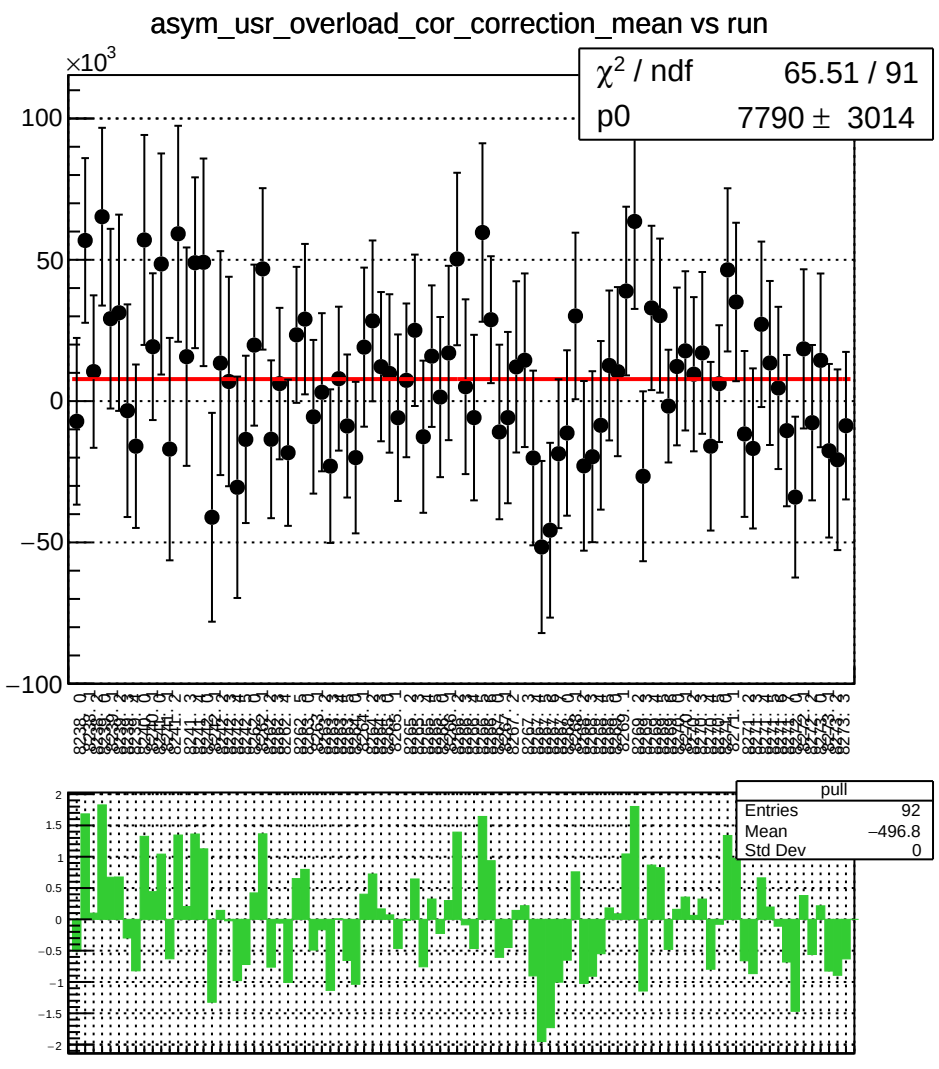

pull1D
Entries 92
Mean 0.008309
Std Dev 0.8476
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

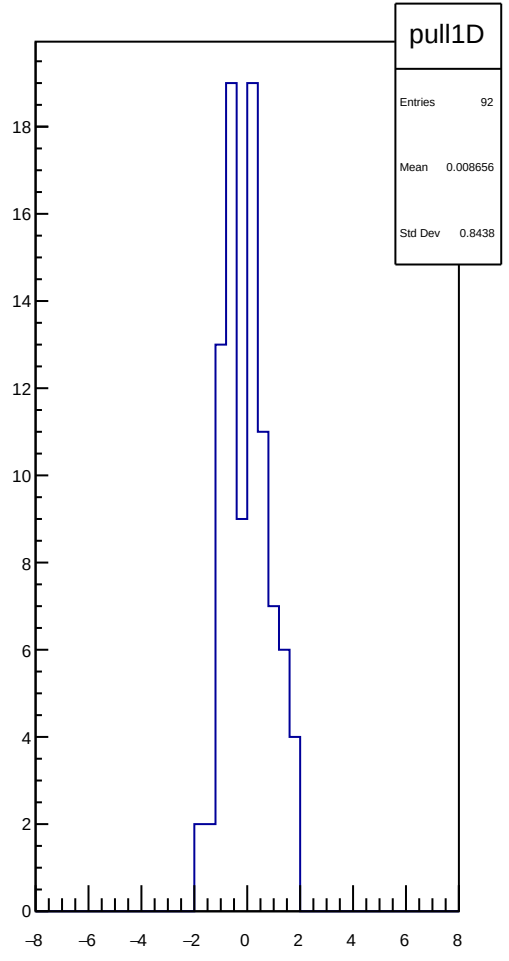

asym_usr_cor_correction_rms vs run
χ² / ndf 1.963e+04 / 91
p0 2829 ± 2.131
3800
3600
3400
3200
3000
2800
2600
2400

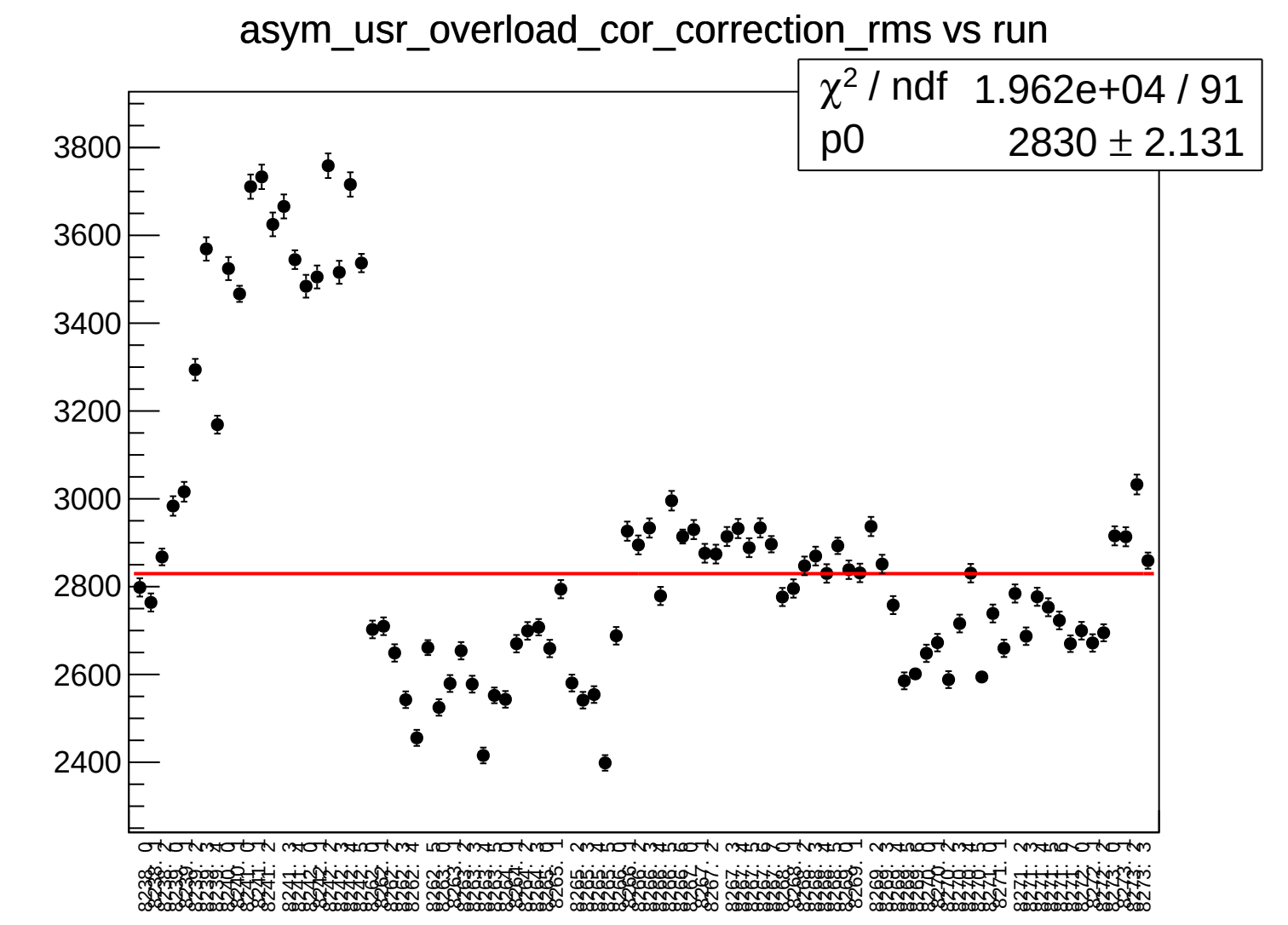

overload_cor_asym_usr_mean vs run
χ² / ndf 95.16 / 91
p0 2261 ± 1140
pull
Entries 92
Mean 381.9
Std Dev 0

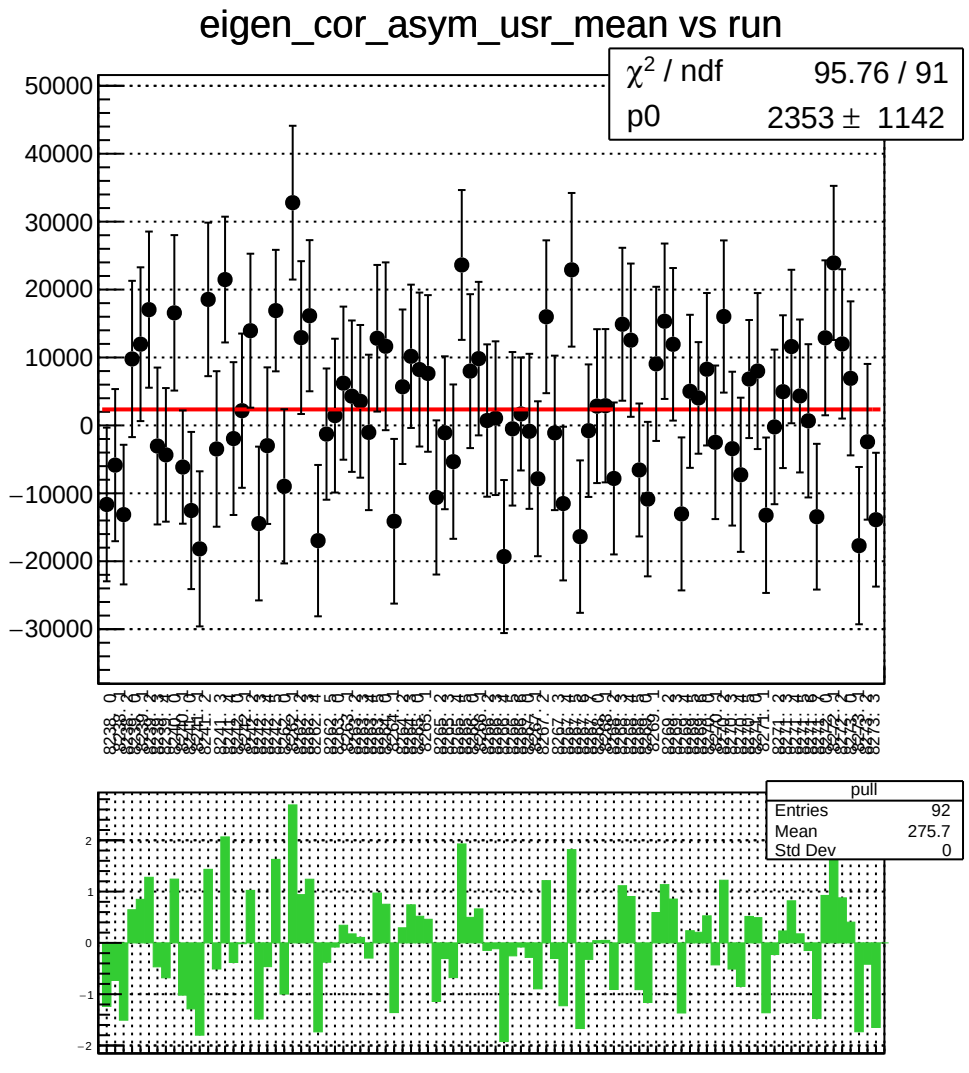

pull1D
Entries 92
Mean −0.001284
Std Dev 1.017

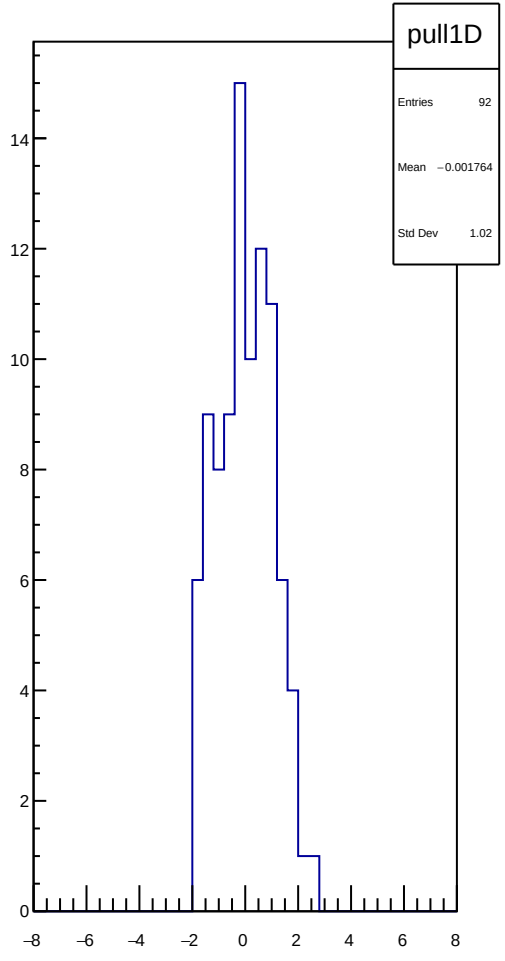

overload_cor_asym_usr_rms vs run
χ² / ndf 367.3 / 91
p0 1076 ± 0.8061
1180
1160
1140
1120
1100
1080
1060
1040

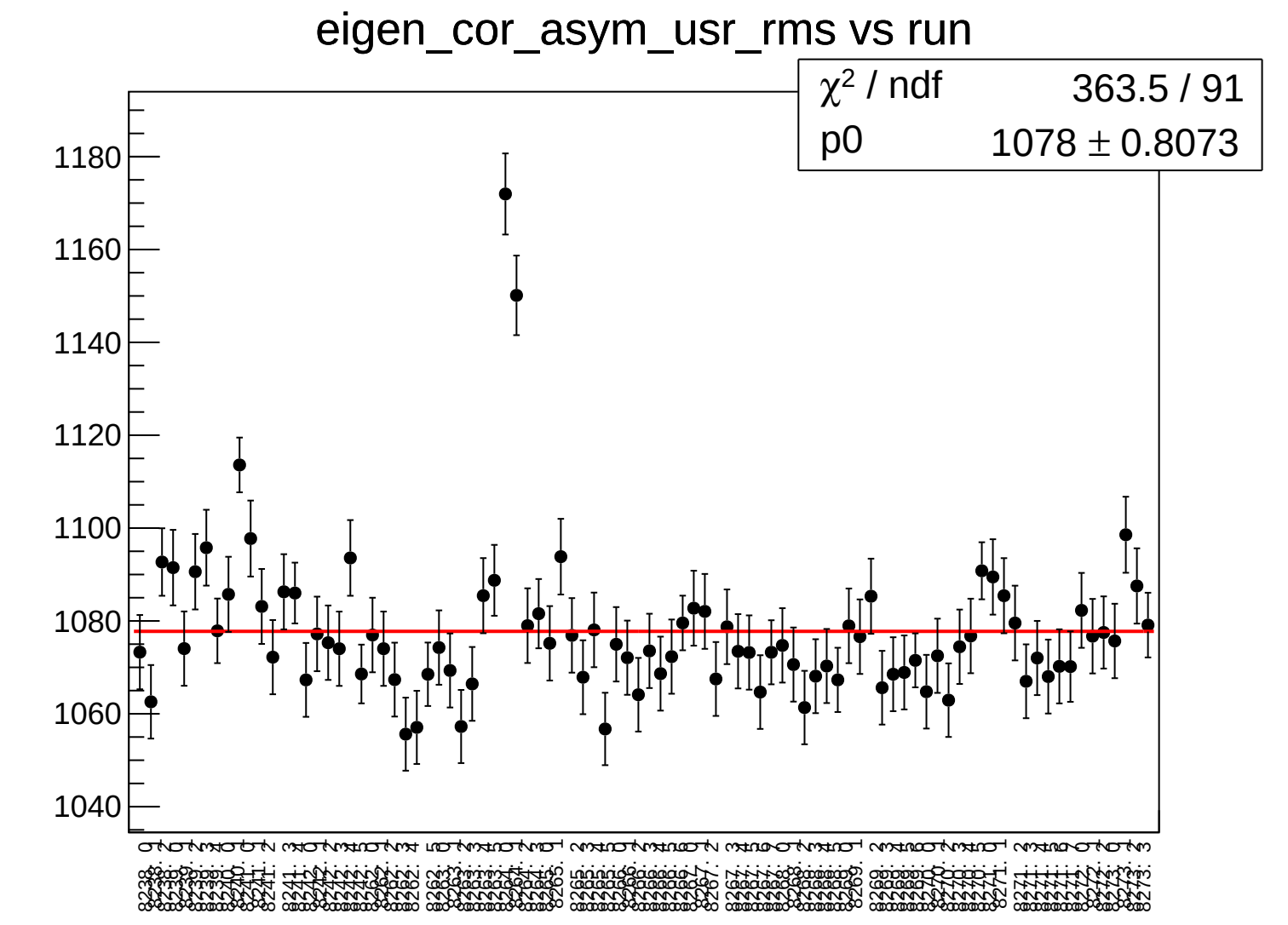

asym_usr_overload_cor_correction_mean vs run
×10^3
χ² / ndf 65.51 / 91
p0 7790 ± 3014
100
50
0
−50
−100
pull
Entries 92
Mean −496.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

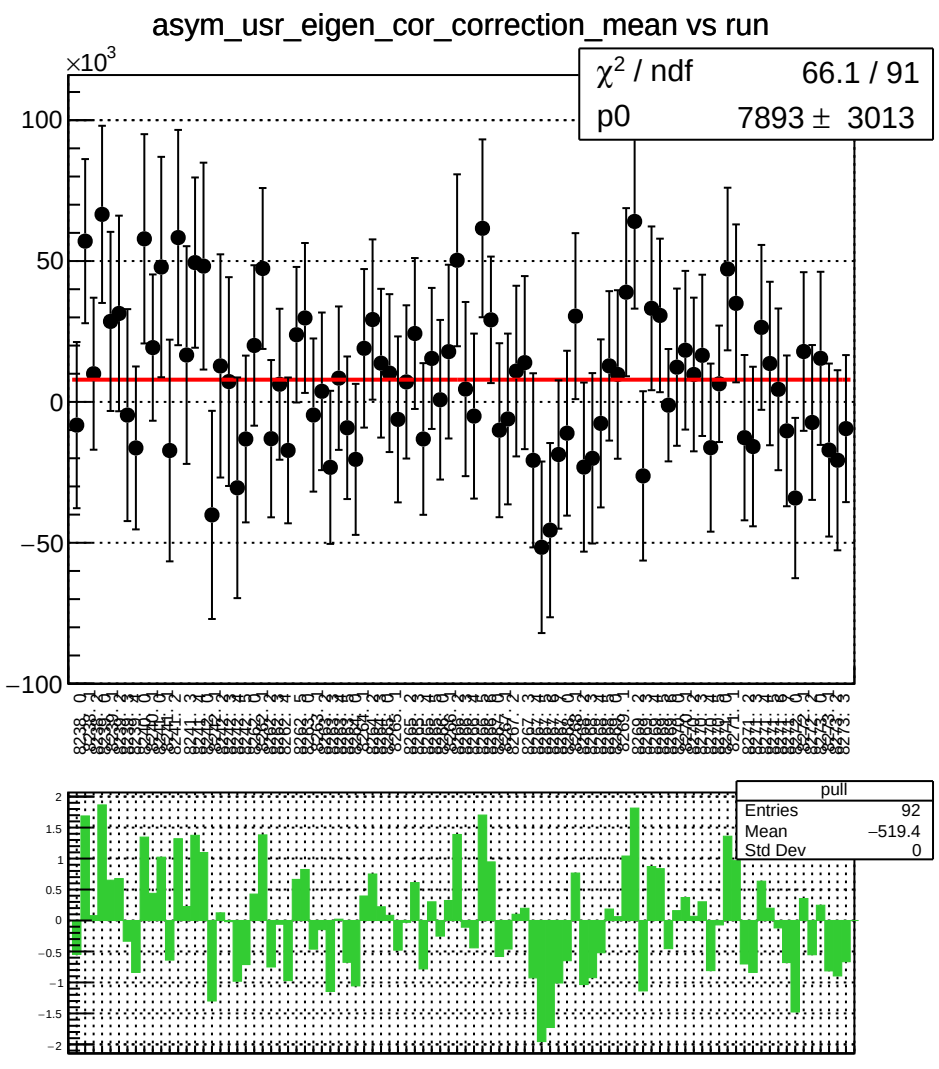

pull1D
Entries 92
Mean 0.008656
Std Dev 0.8438
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

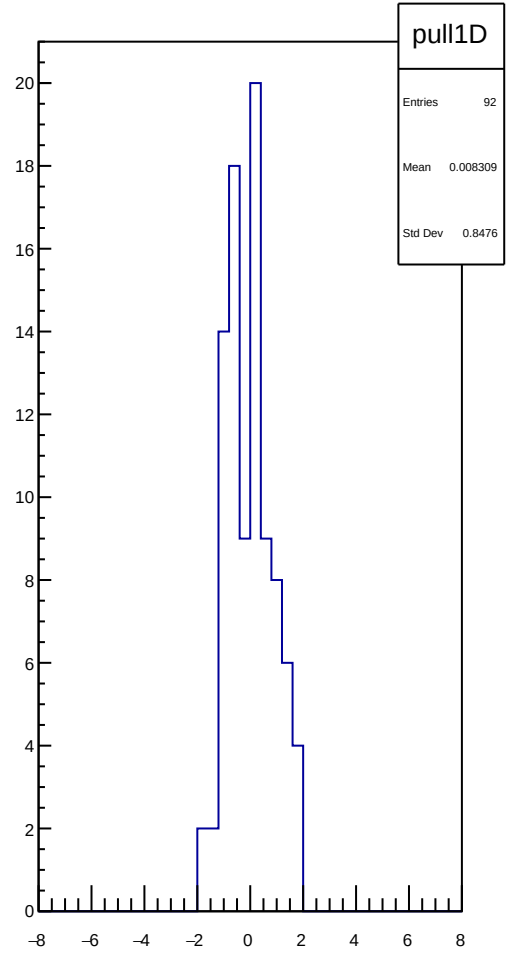

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 1.962e+04 / 91
p0 2830 ± 2.131
3800
3600
3400
3200
3000
2800
2600
2400

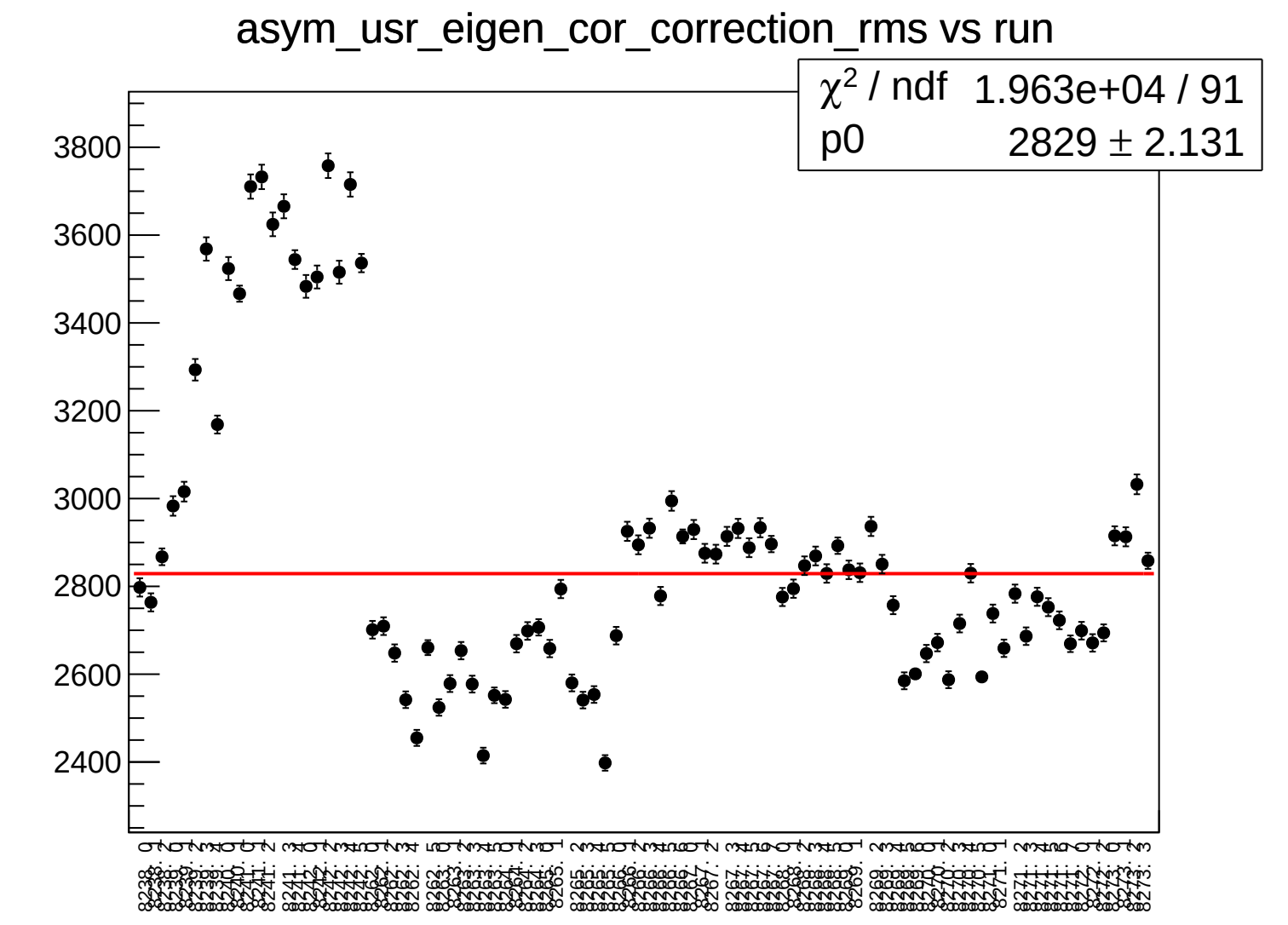

eigen_cor_asym_usr_mean vs run
χ² / ndf 95.76 / 91
p0 2353 ± 1142
pull
Entries 92
Mean 275.7
Std Dev 0

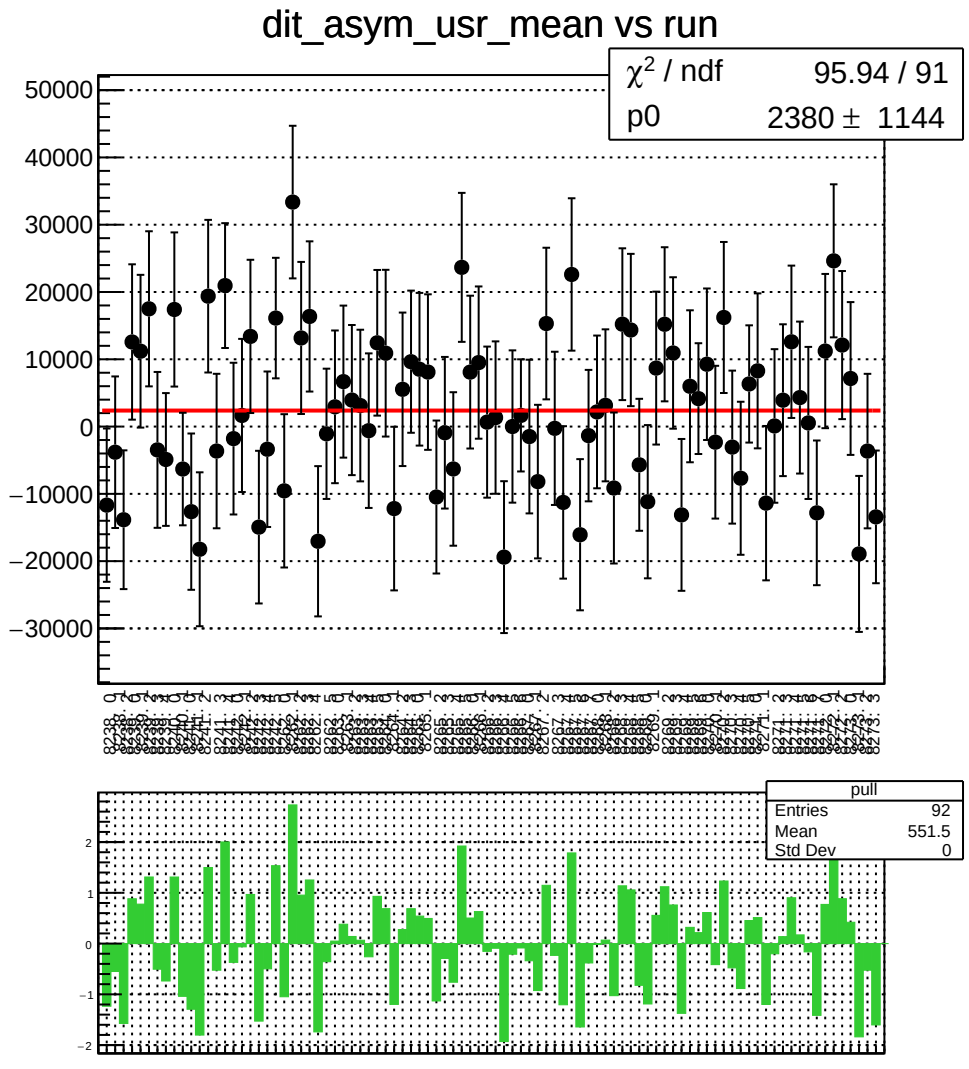

pull1D
Entries 92
Mean −0.001764
Std Dev 1.02

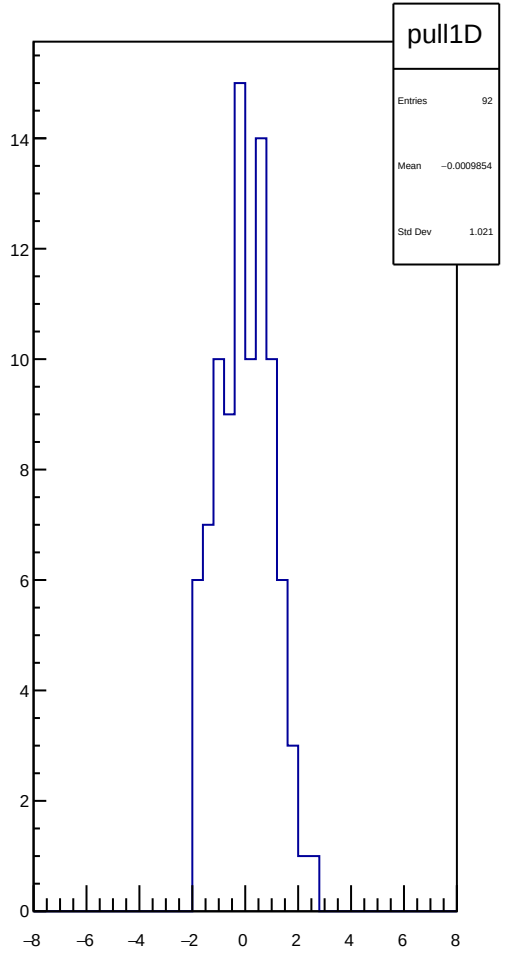

eigen_cor_asym_usr_rms vs run
χ² / ndf 363.5 / 91
p0 1078 ± 0.8073
1180
1160
1140
1120
1100
1080
1060
1040

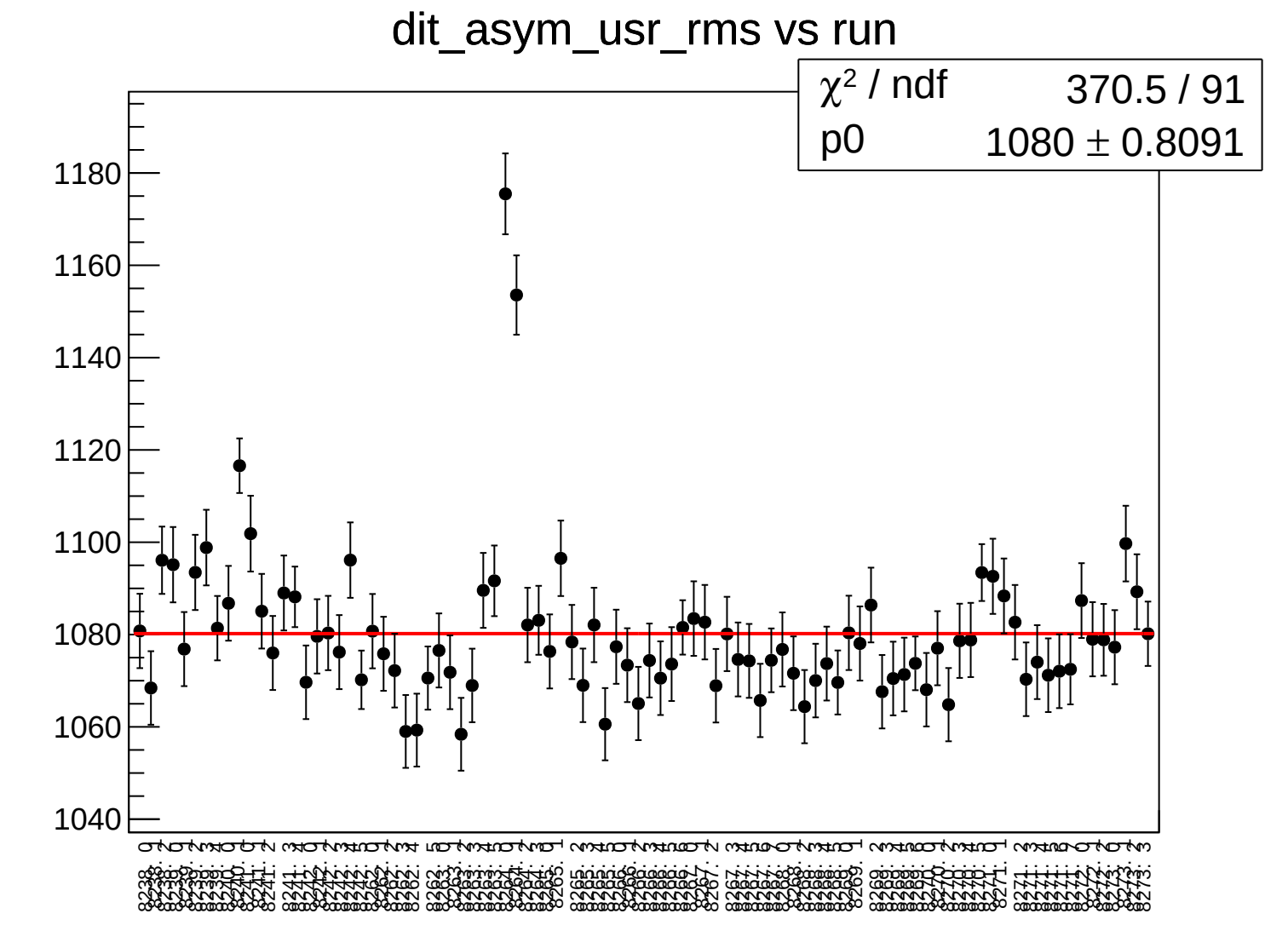

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 66.1 / 91
p0 7893 ± 3013
100
50
0
−50
−100
pull
Entries 92
Mean −519.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

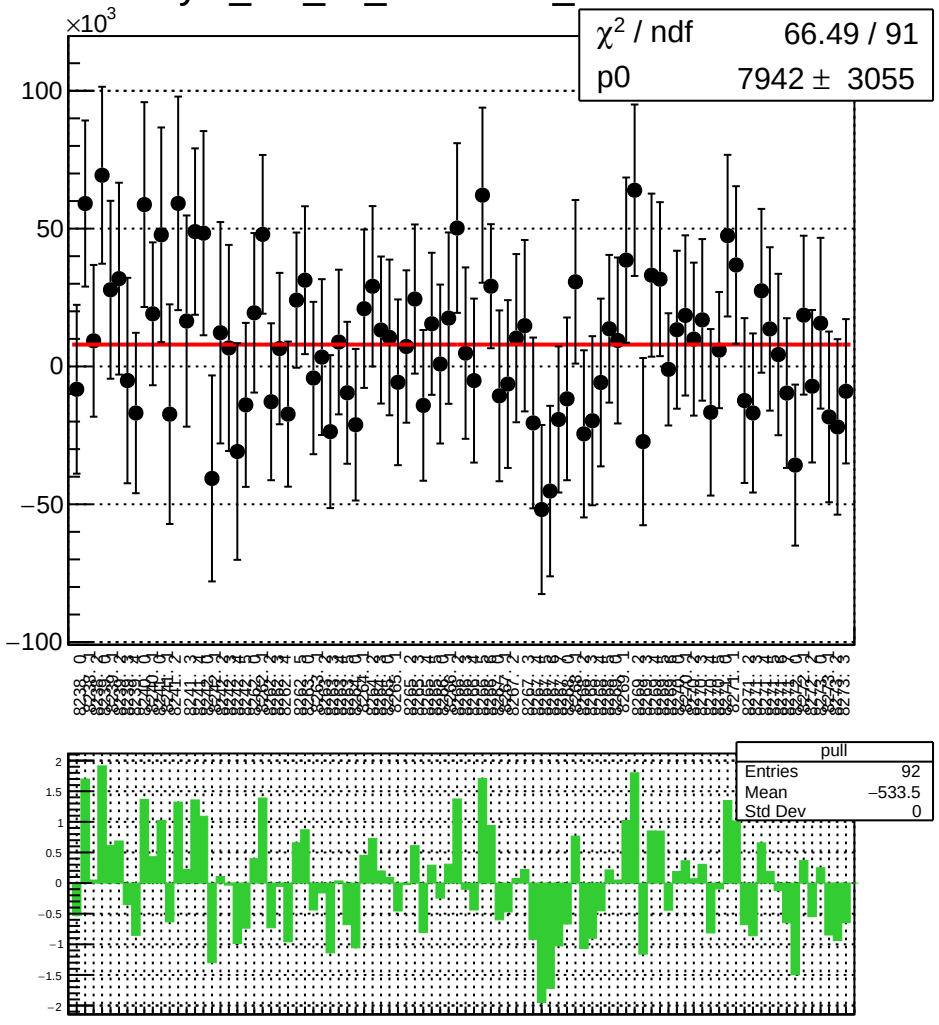

pull1D
Entries 92
Mean 0.008309
Std Dev 0.8476
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

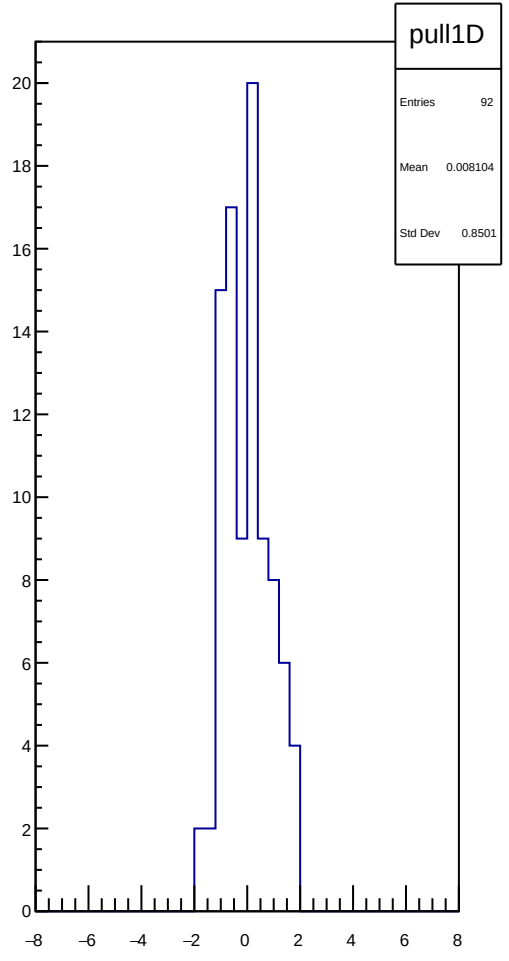

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 1.963e+04 / 91
p0 2829 ± 2.131
3800
3600
3400
3200
3000
2800
2600
2400

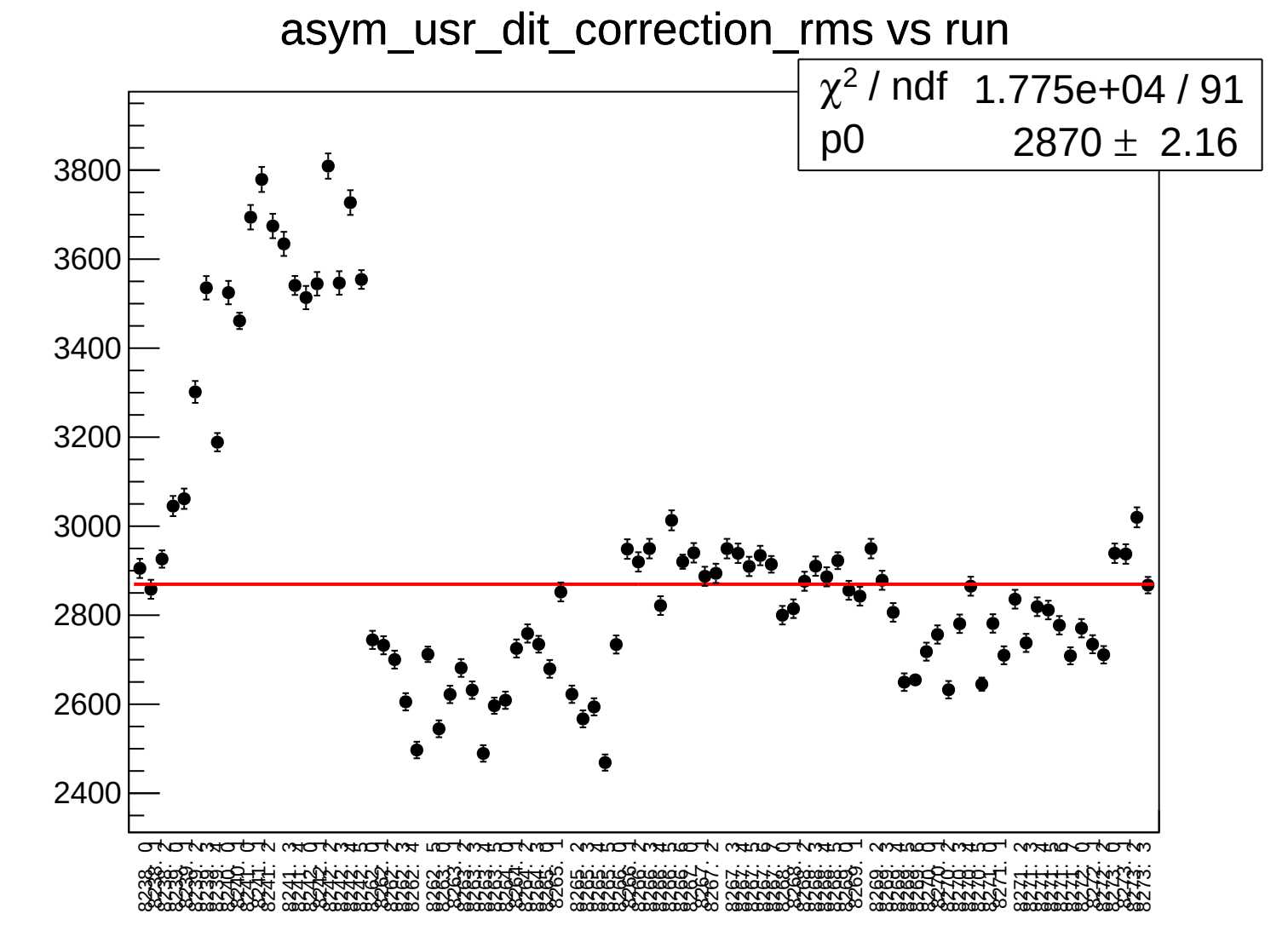

dit_asym_usr_mean vs run
χ² / ndf 95.94 / 91
p0 2380 ± 1144
pull
Entries 92
Mean 551.5
Std Dev 0

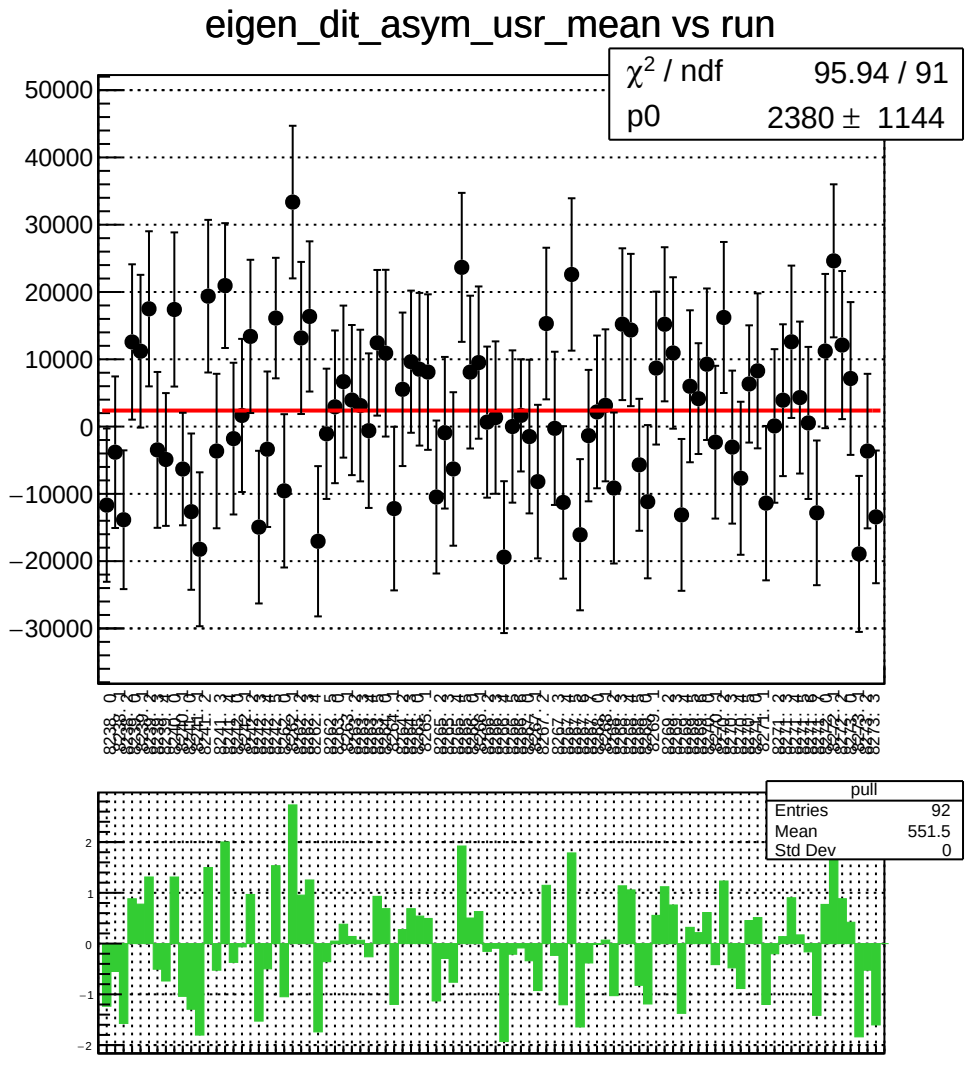

pull1D
Entries 92
Mean −0.0009854
Std Dev 1.021

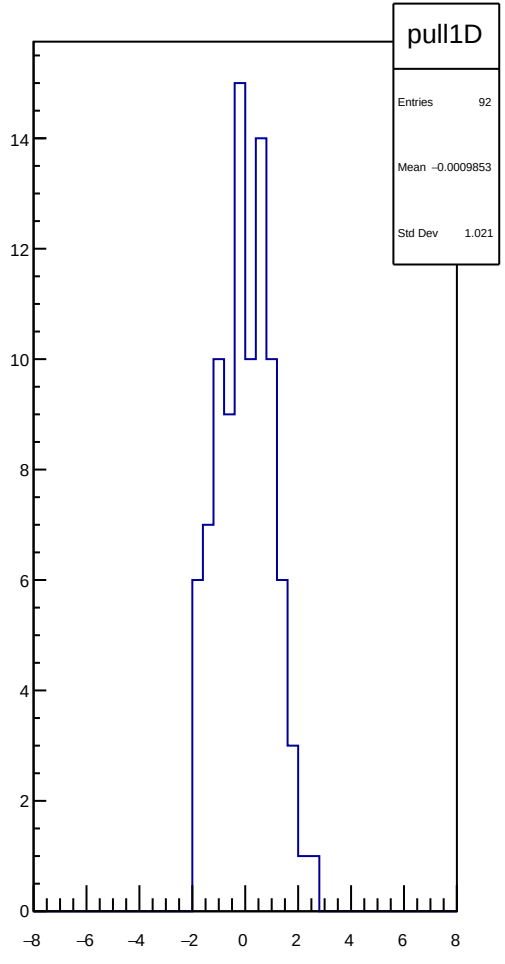

dit_asym_usr_rms vs run
χ² / ndf 370.5 / 91
p0 1080 ± 0.8091
1180
1160
1140
1120
1100
1080
1060
1040

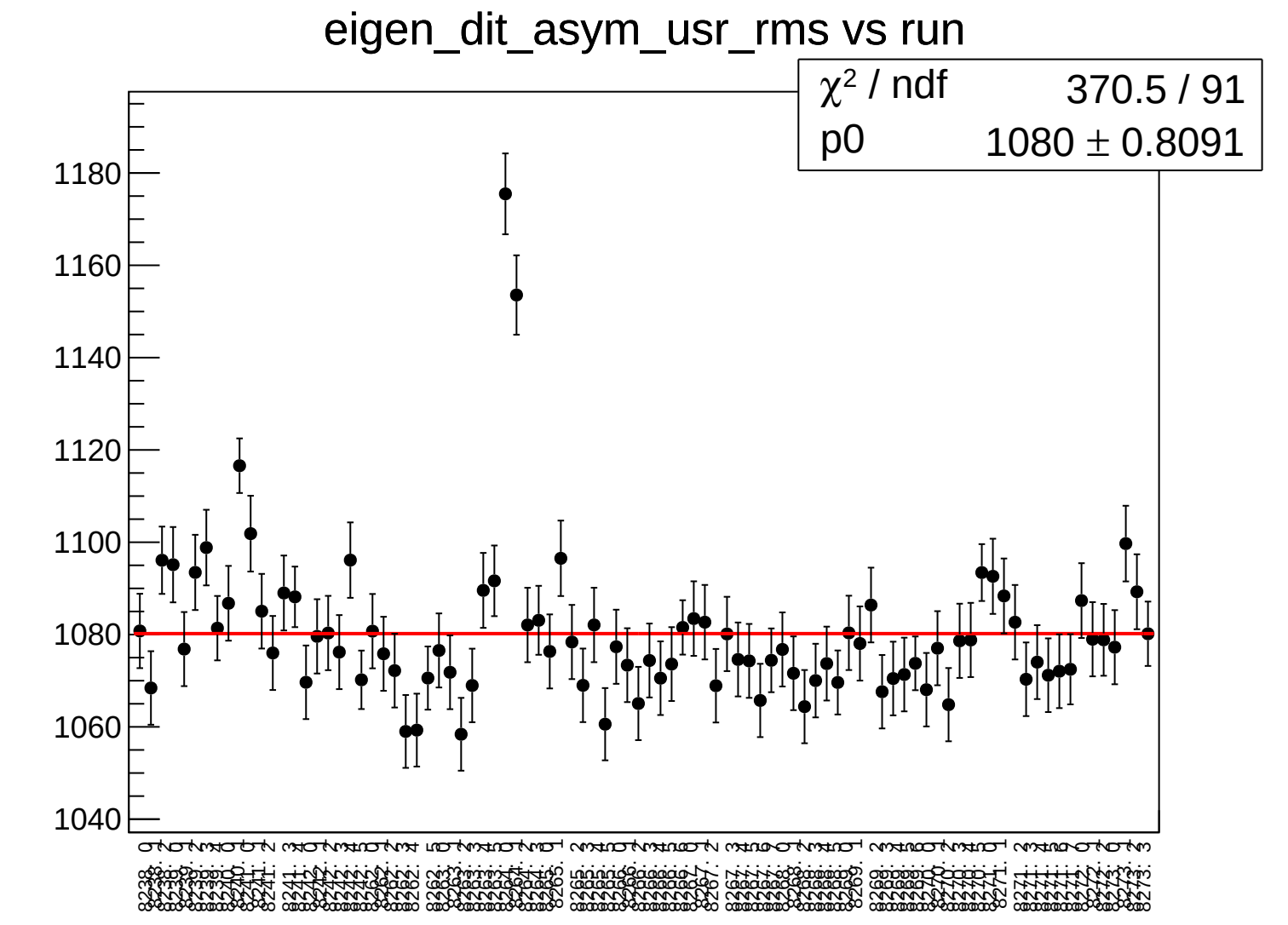

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 66.49 / 91
p0 7942 ± 3055
100
50
0
−50
−100
pull
Entries 92
Mean −533.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

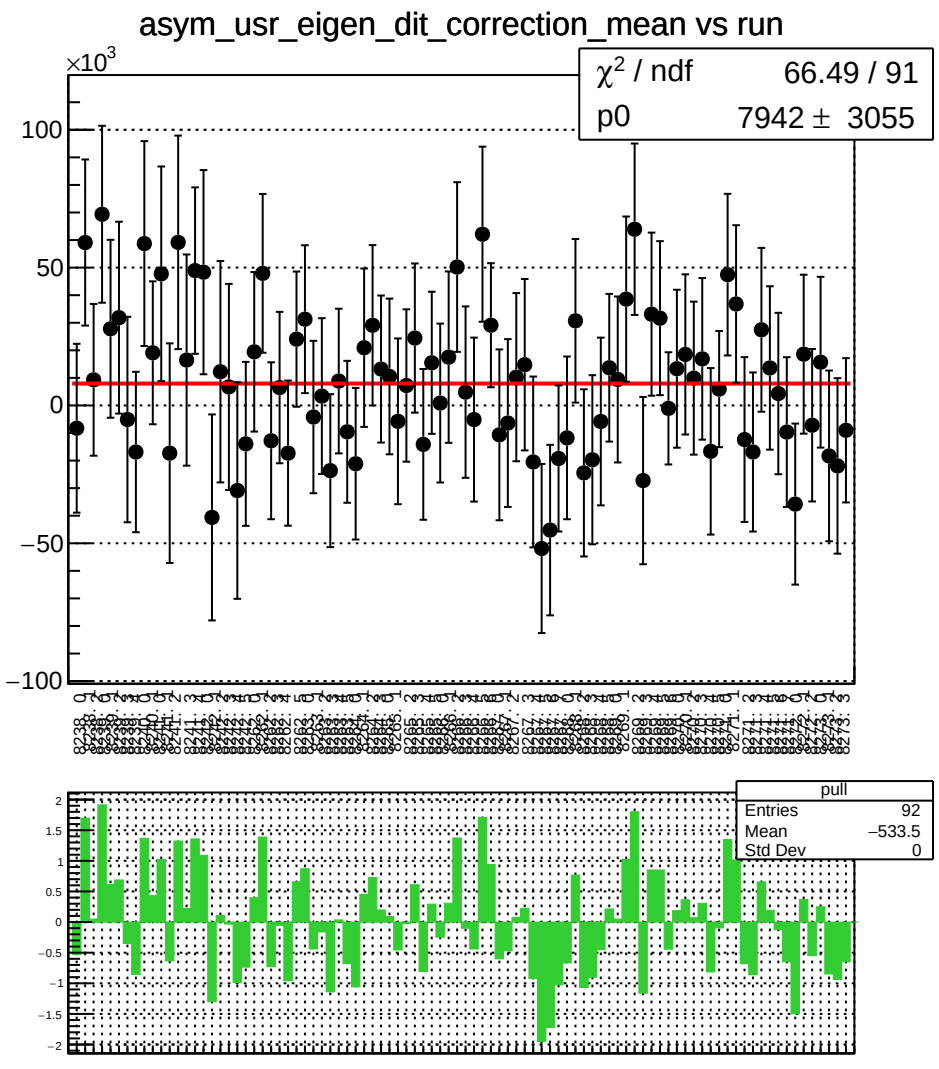

pull1D
Entries 92
Mean 0.008104
Std Dev 0.8501
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

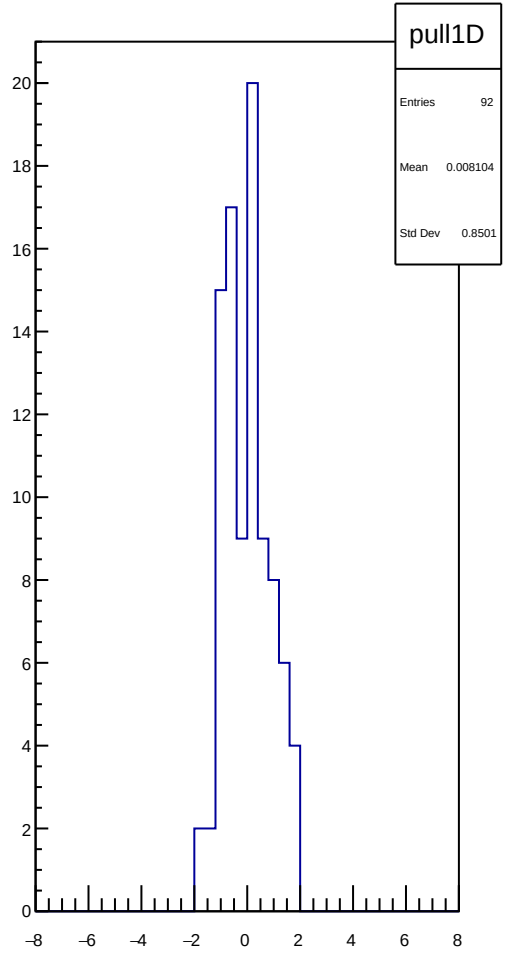

asym_usr_dit_correction_rms vs run
χ² / ndf 1.775e+04 / 91
p0 2870 ± 2.16
3800
3600
3400
3200
3000
2800
2600
2400

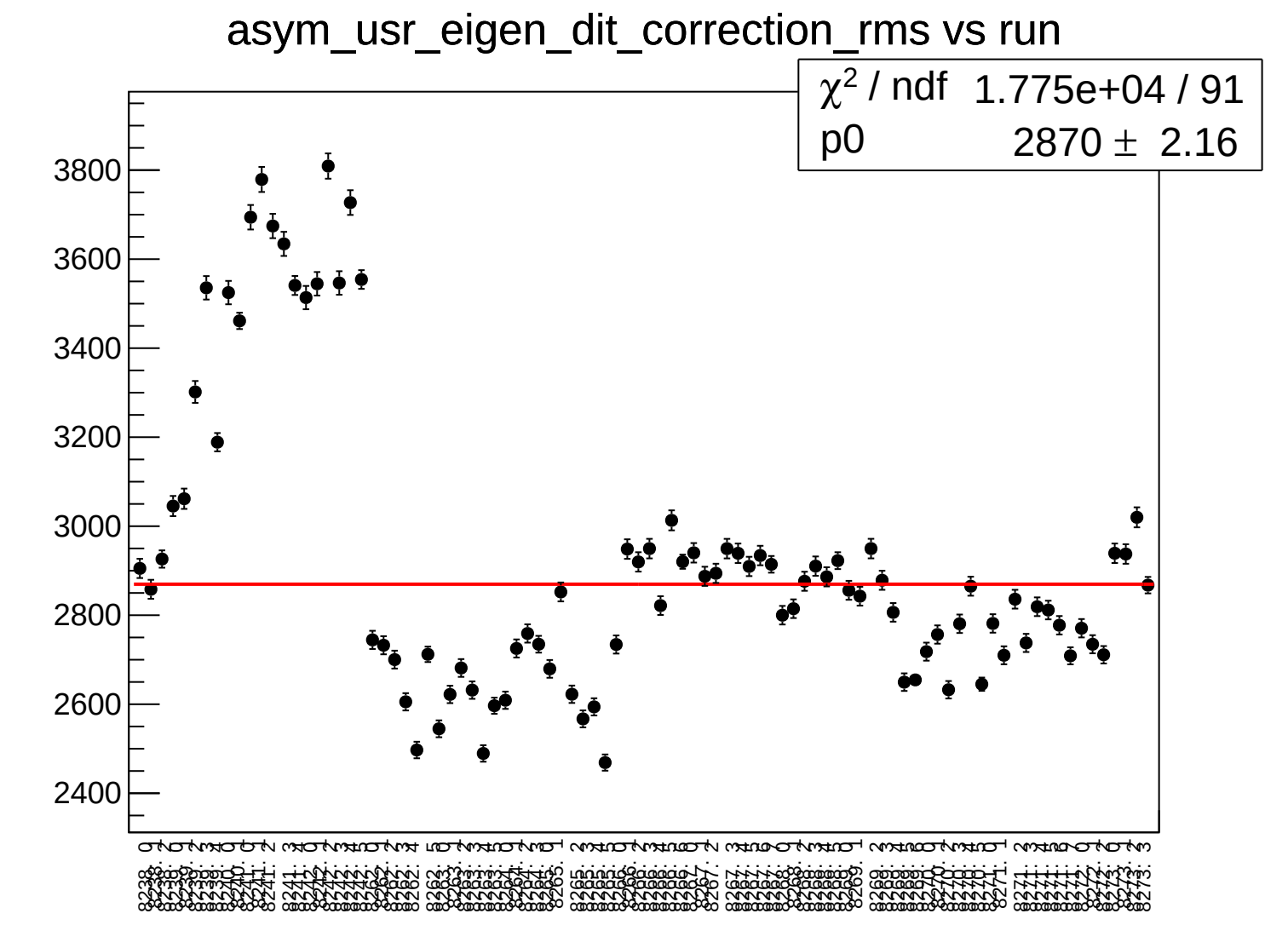

eigen_dit_asym_usr_mean vs run
χ² / ndf 95.94 / 91
p0 2380 ± 1144
pull
Entries 92
Mean 551.5
Std Dev 0

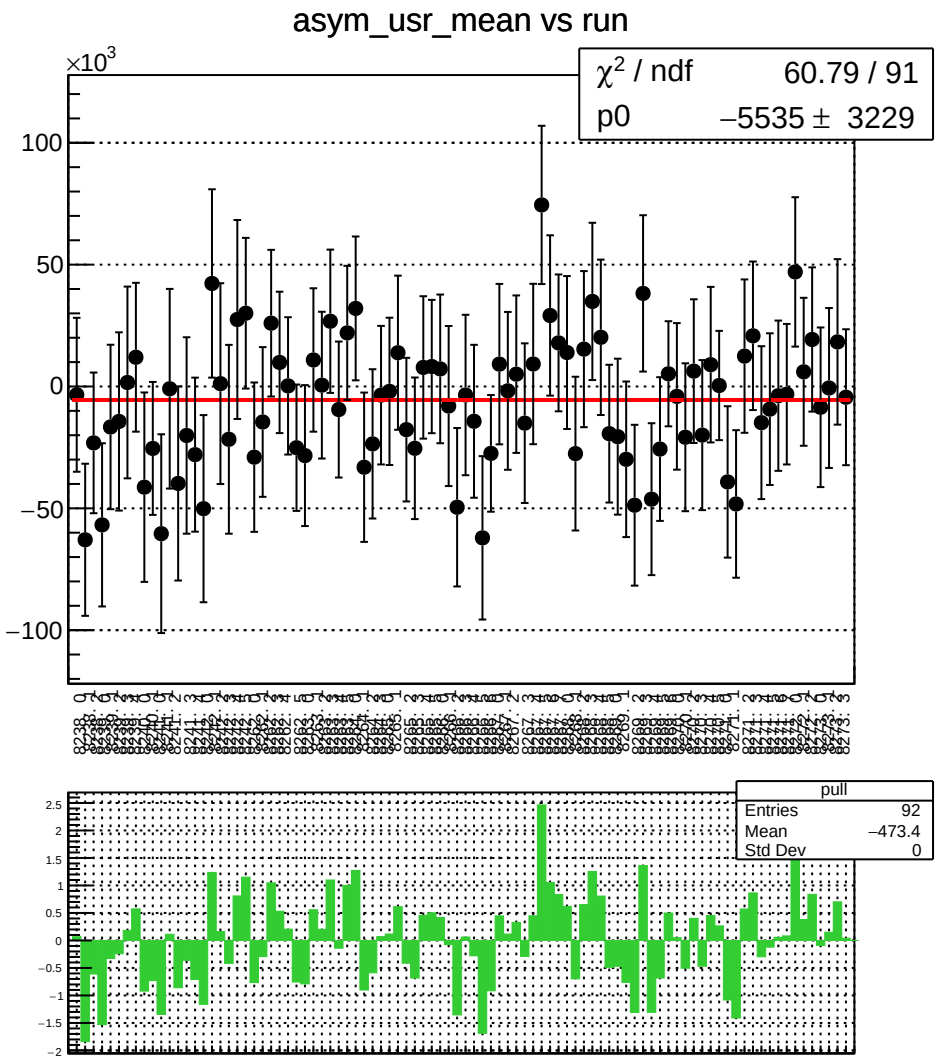

pull1D
Entries 92
Mean −0.0009853
Std Dev 1.021

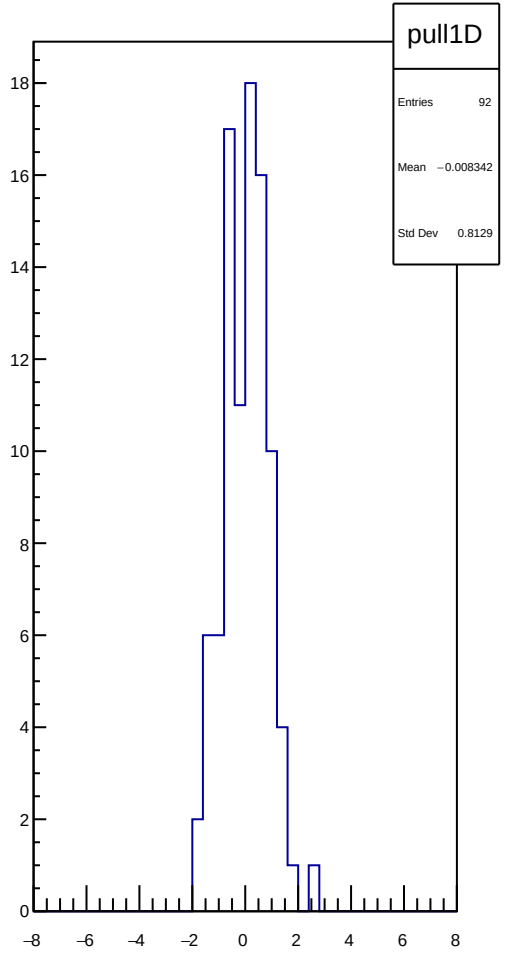

eigen_dit_asym_usr_rms vs run
χ² / ndf 370.5 / 91
p0 1080 ± 0.8091
1180
1160
1140
1120
1100
1080
1060
1040

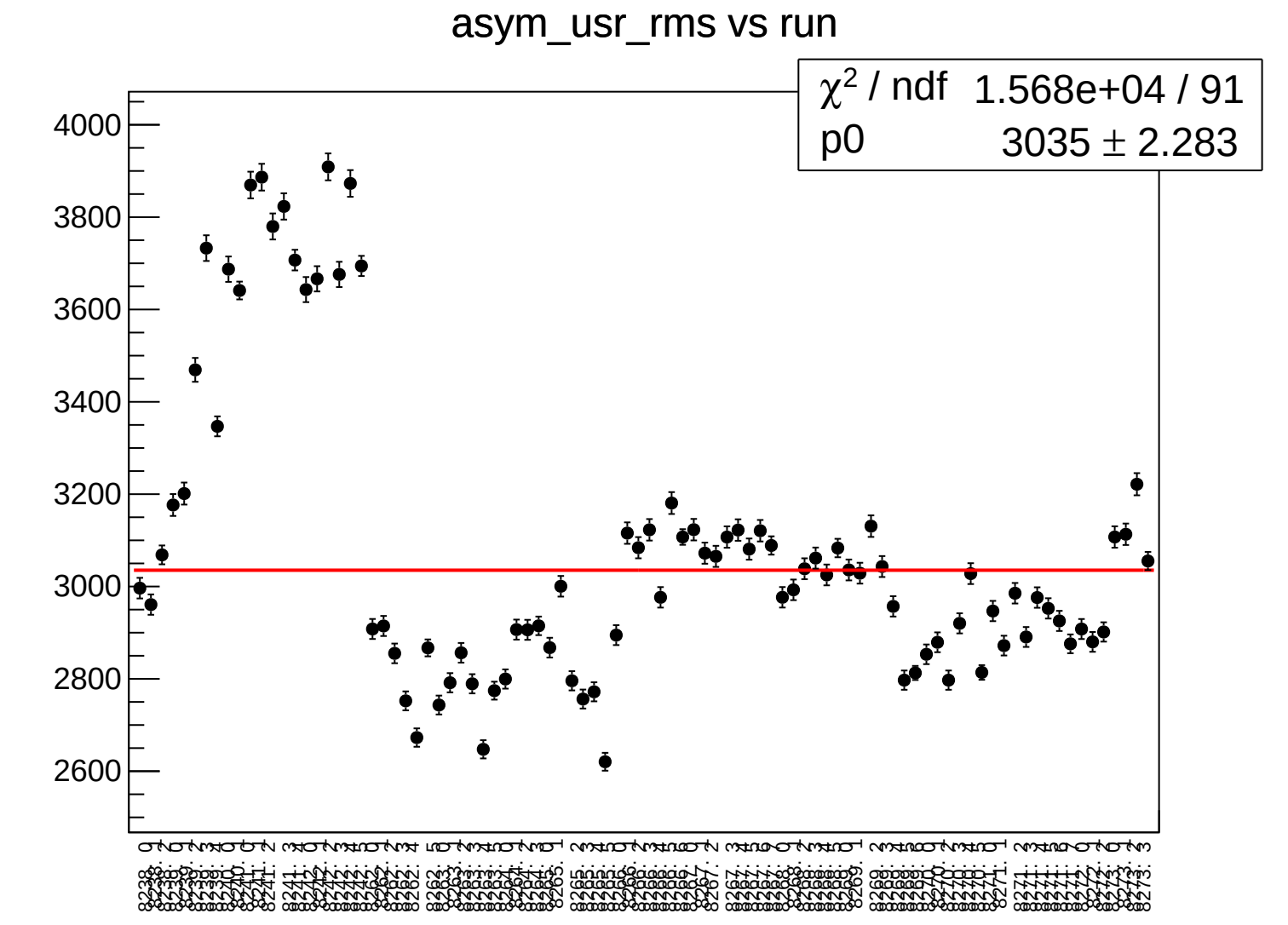

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 66.49 / 91
p0 7942 ± 3055
100
50
0
−50
−100
pull
Entries 92
Mean −533.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

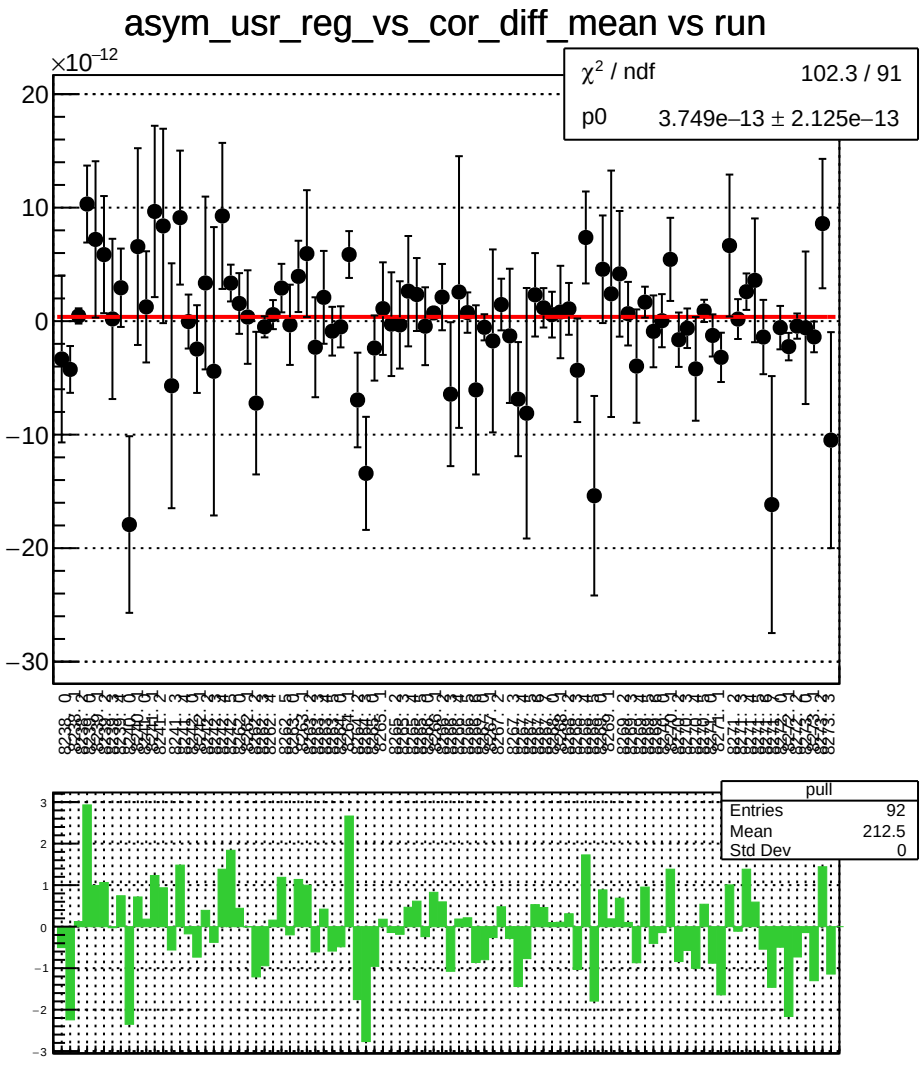

pull1D
Entries 92
Mean 0.008104
Std Dev 0.8501
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

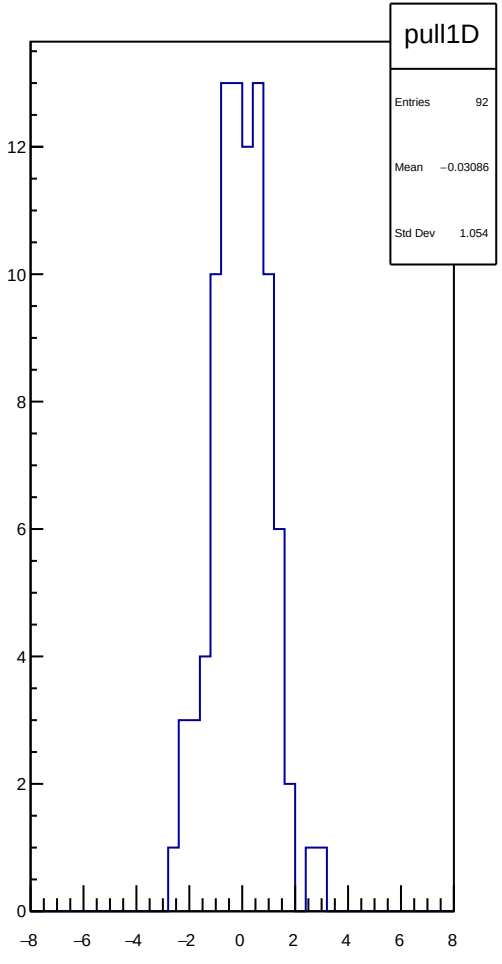

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 1.775e+04 / 91
p0 2870 ± 2.16
3800
3600
3400
3200
3000
2800
2600
2400

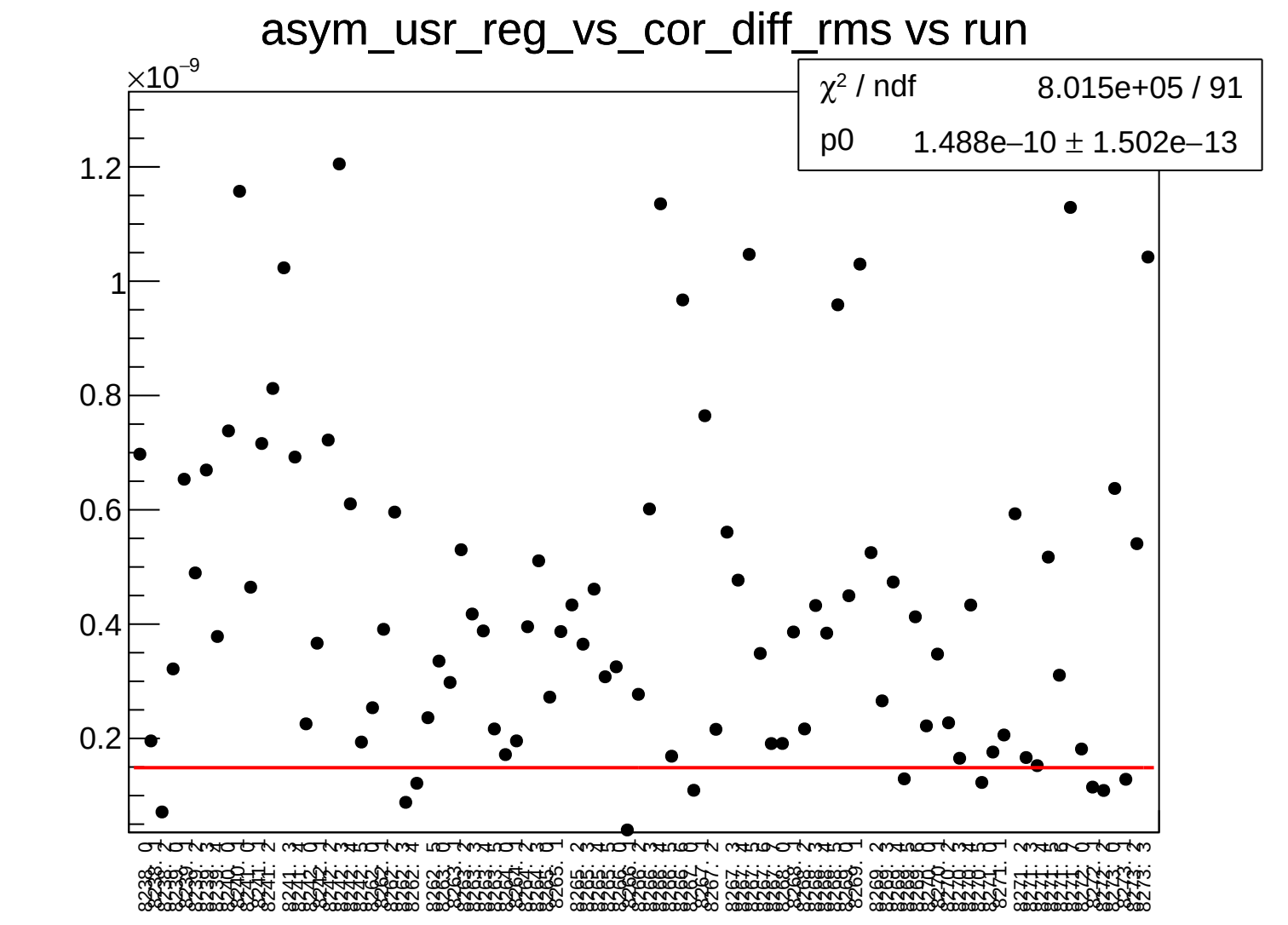

asym_usr_mean vs run
×10^3
χ² / ndf 60.79 / 91
p0 −5535 ± 3229
100
50
0
−50
−100
pull
Entries 92
Mean −473.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

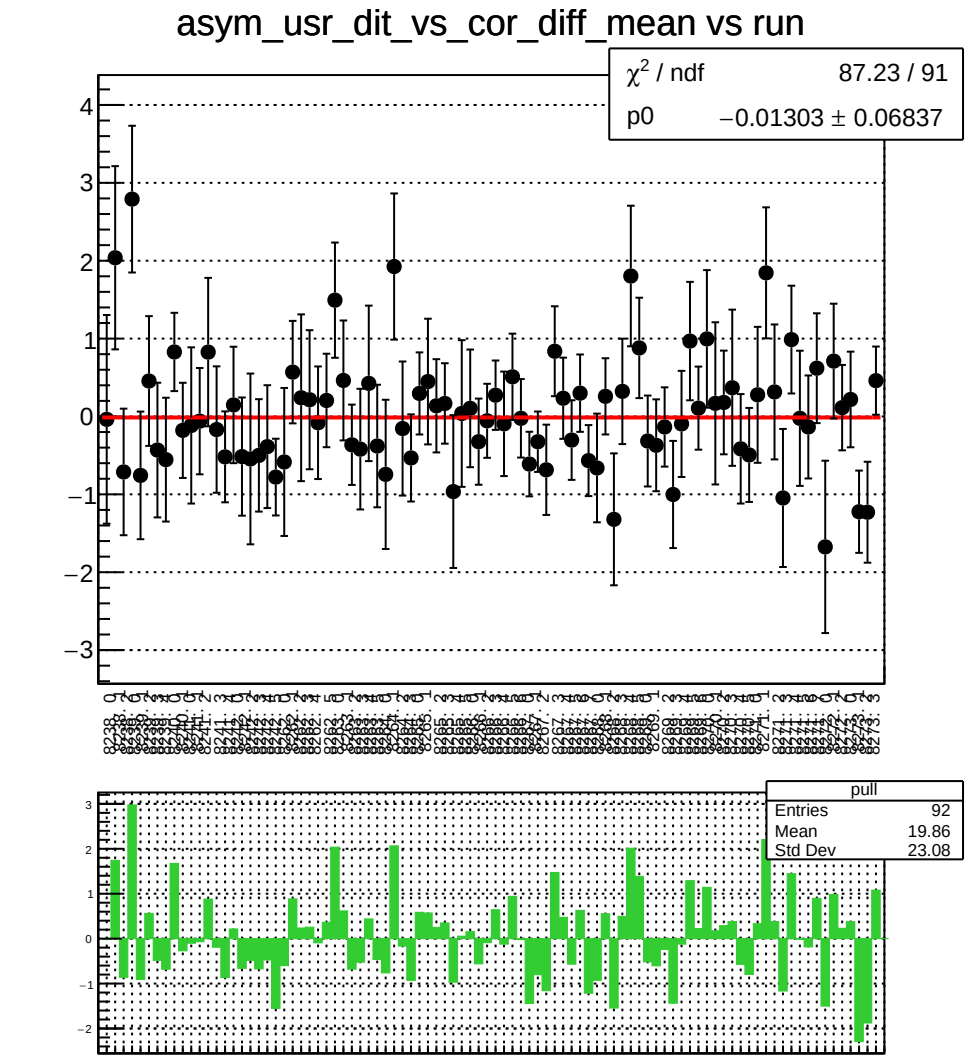

pull1D
Entries 92
Mean −0.008342
Std Dev 0.8129
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

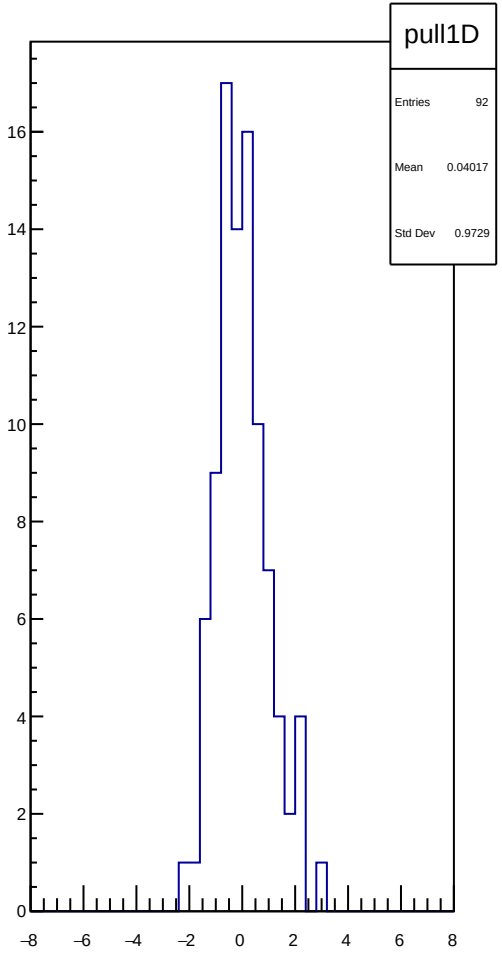

asym_usr_rms vs run
$\chi^2$ / ndf 1.568e+04 / 91
p0 3035 ± 2.283
4000
3800
3600
3400
3200
3000
2800
2600

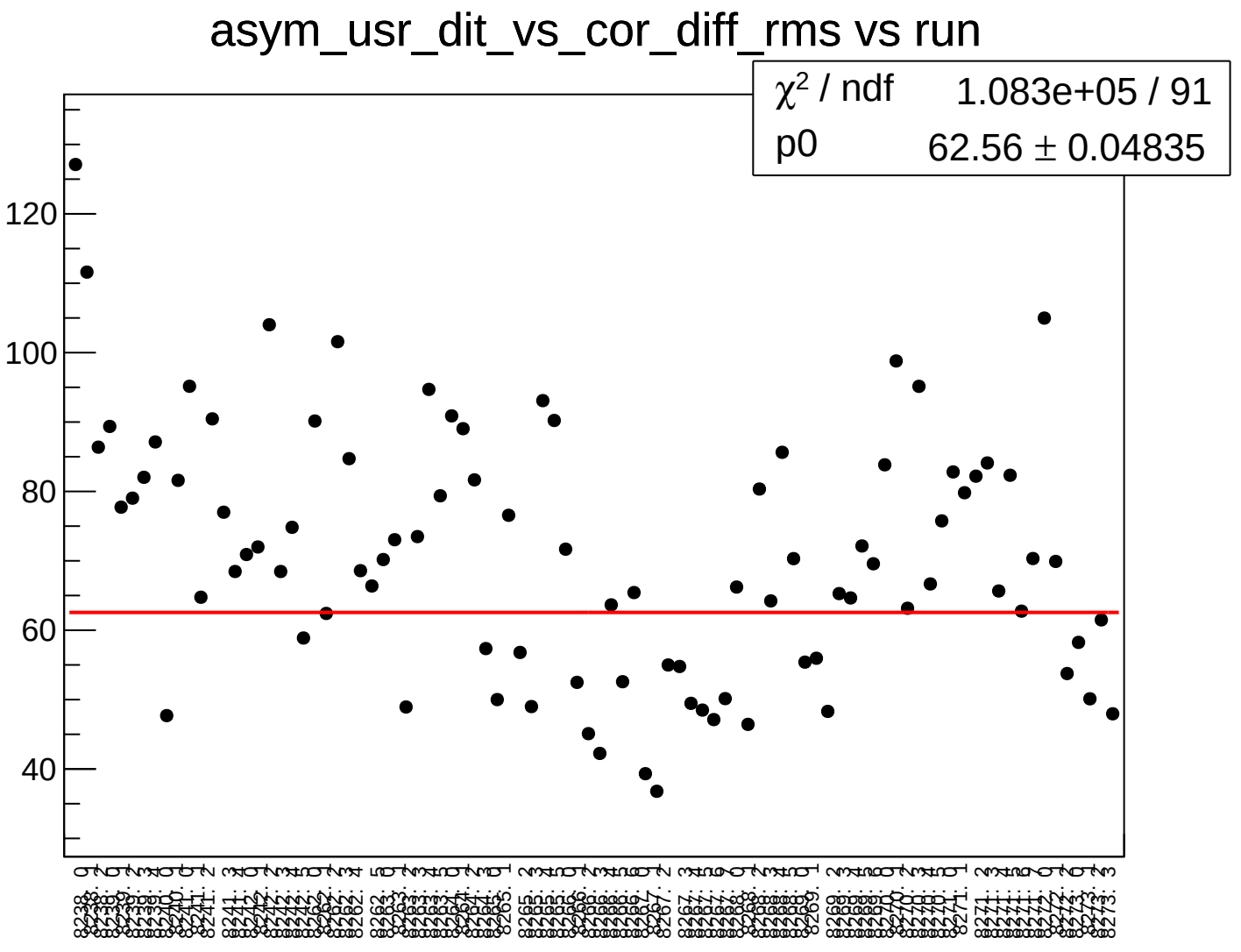

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.3 / 91
p0 3.749e−13 ± 2.125e−13
pull
Entries 92
Mean 212.5
Std Dev 0

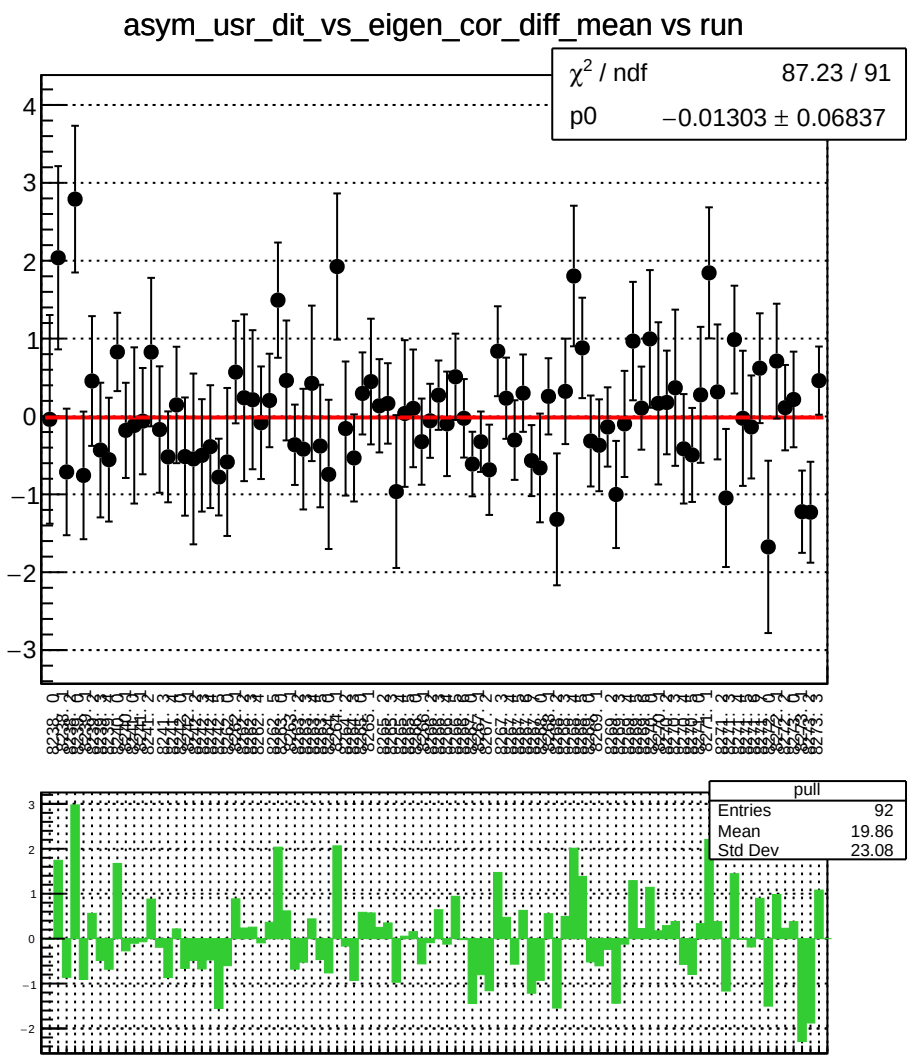

pull1D
Entries 92
Mean −0.03086
Std Dev 1.054

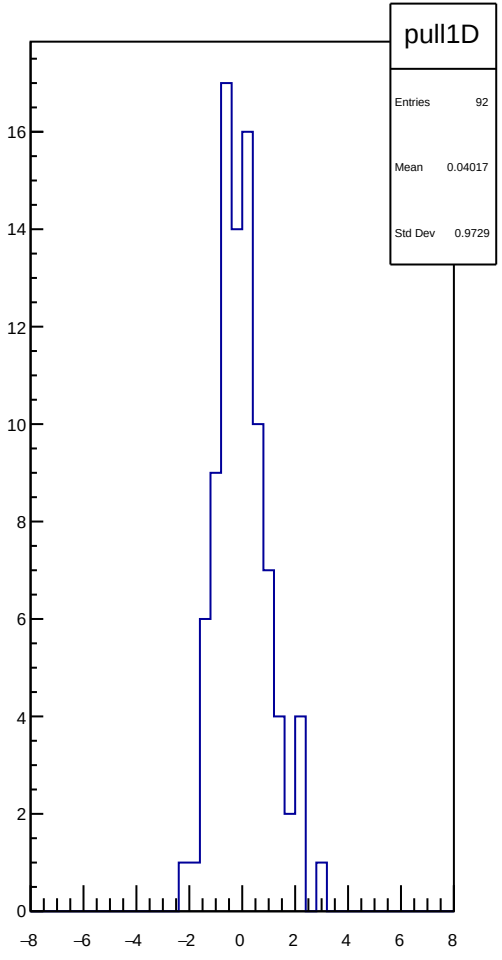

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.015e+05 / 91
p0 1.488e−10 ± 1.502e−13
1.2
1
0.8
0.6
0.4
0.2

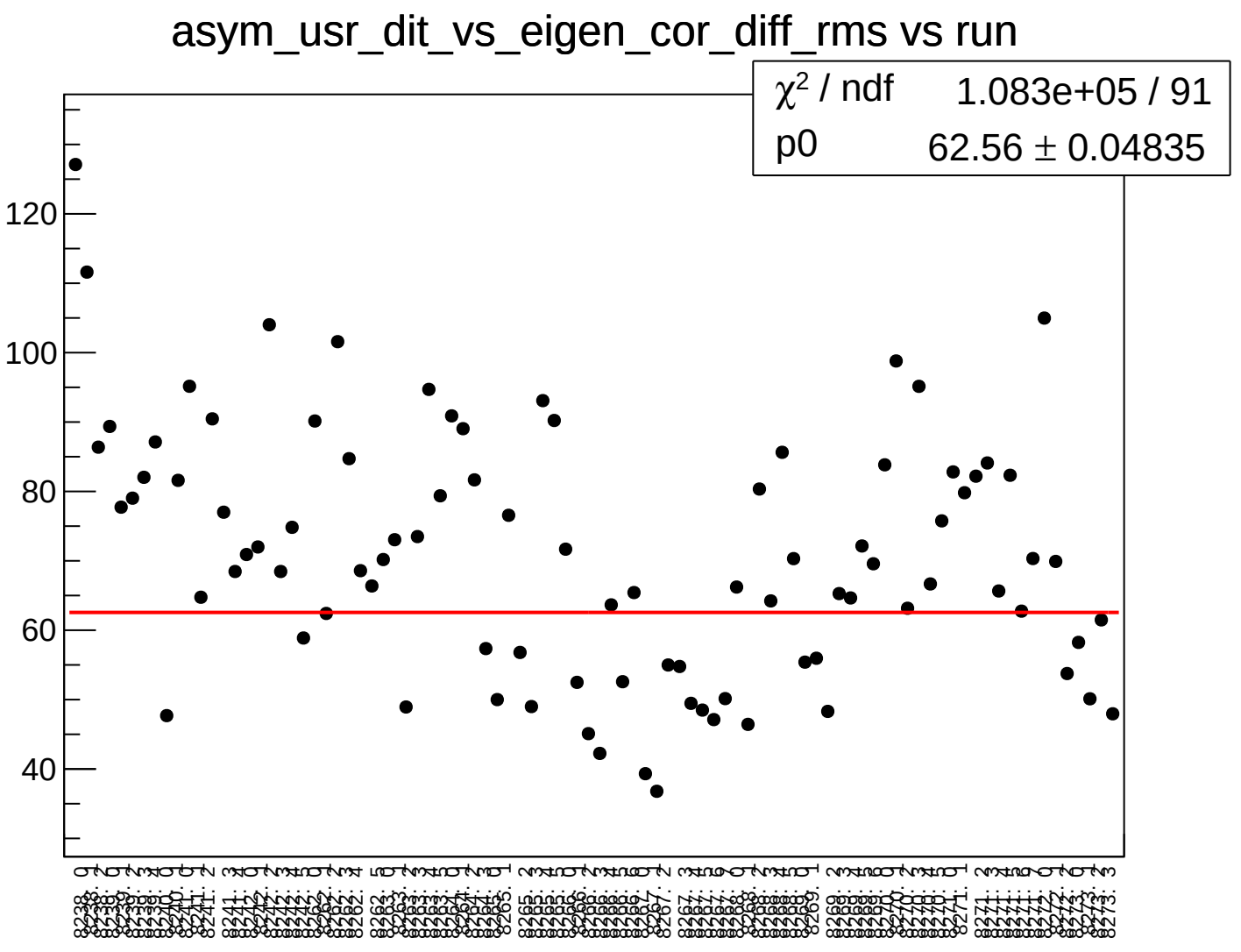

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 87.23 / 91
p0 −0.01303 ± 0.06837
pull
Entries 92
Mean 19.86
Std Dev 23.08

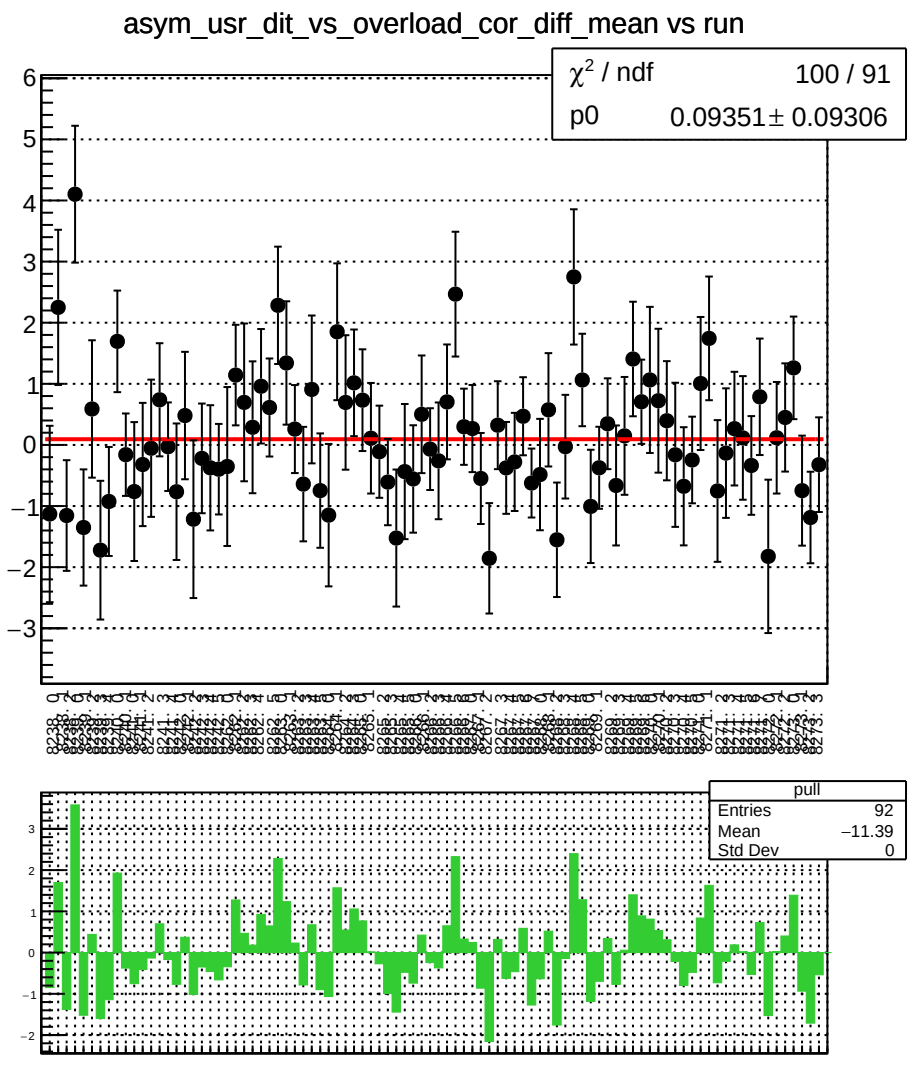

pull1D
Entries 92
Mean 0.04017
Std Dev 0.9729

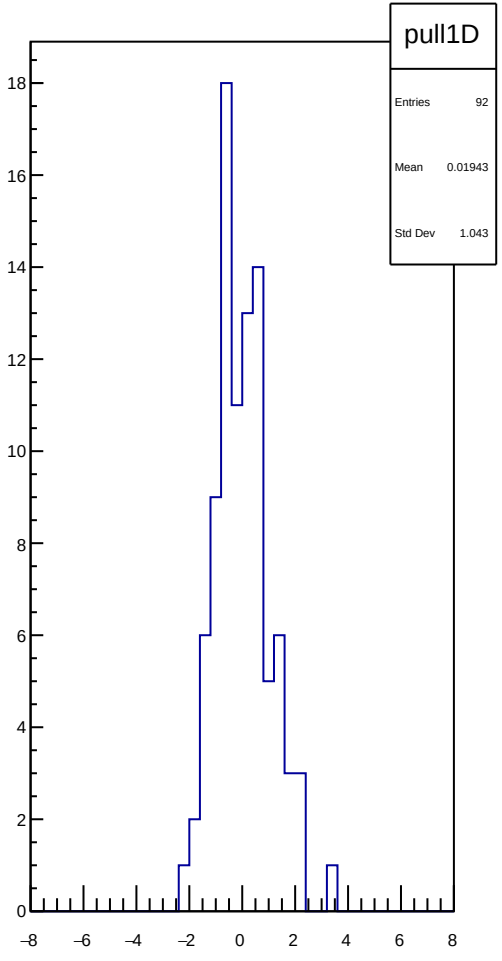

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 1.083e+05 / 91
p0 62.56 ± 0.04835
120
100
80
60
40

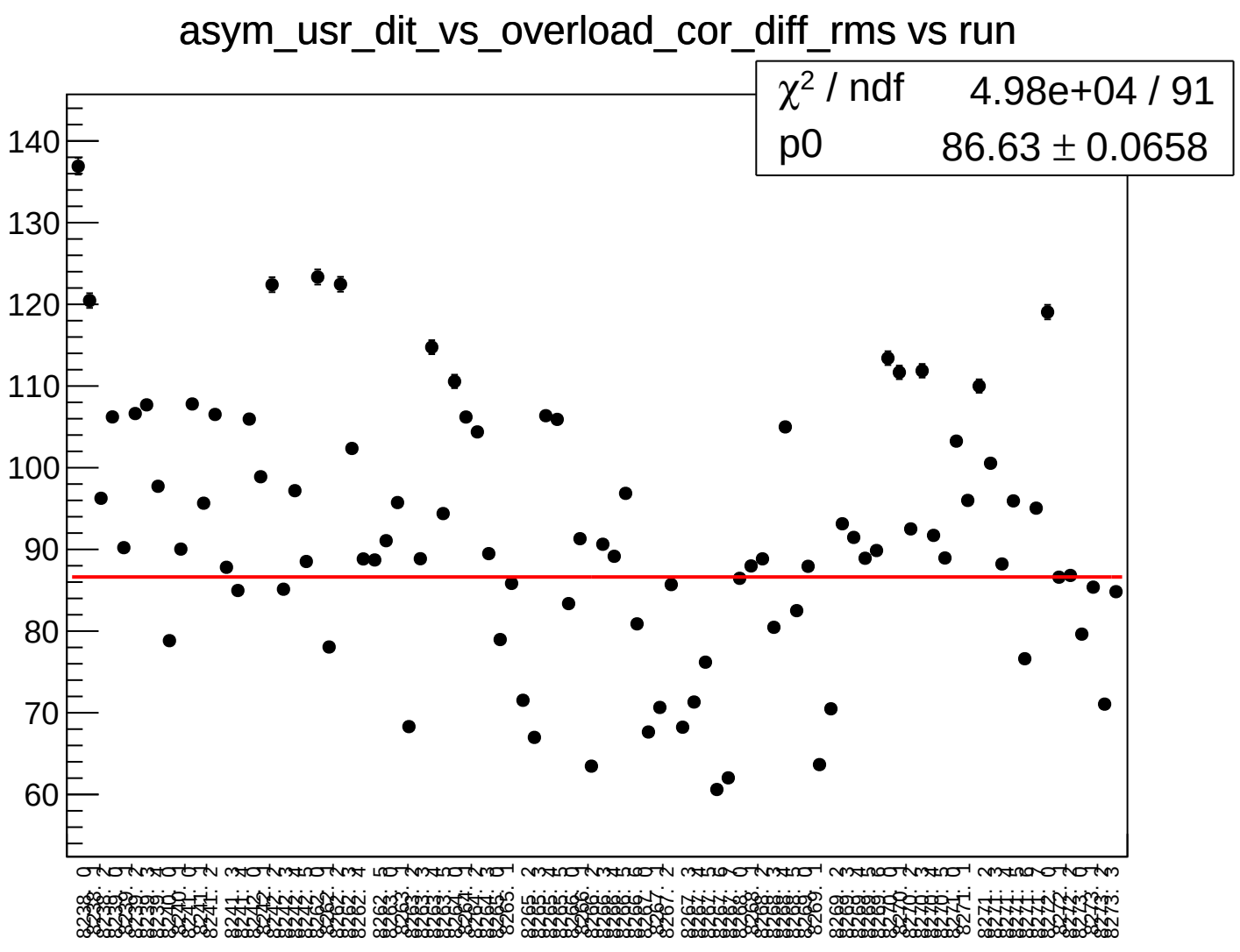

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.23 / 91
p0 −0.01303 ± 0.06837
pull
Entries 92
Mean 19.86
Std Dev 23.08

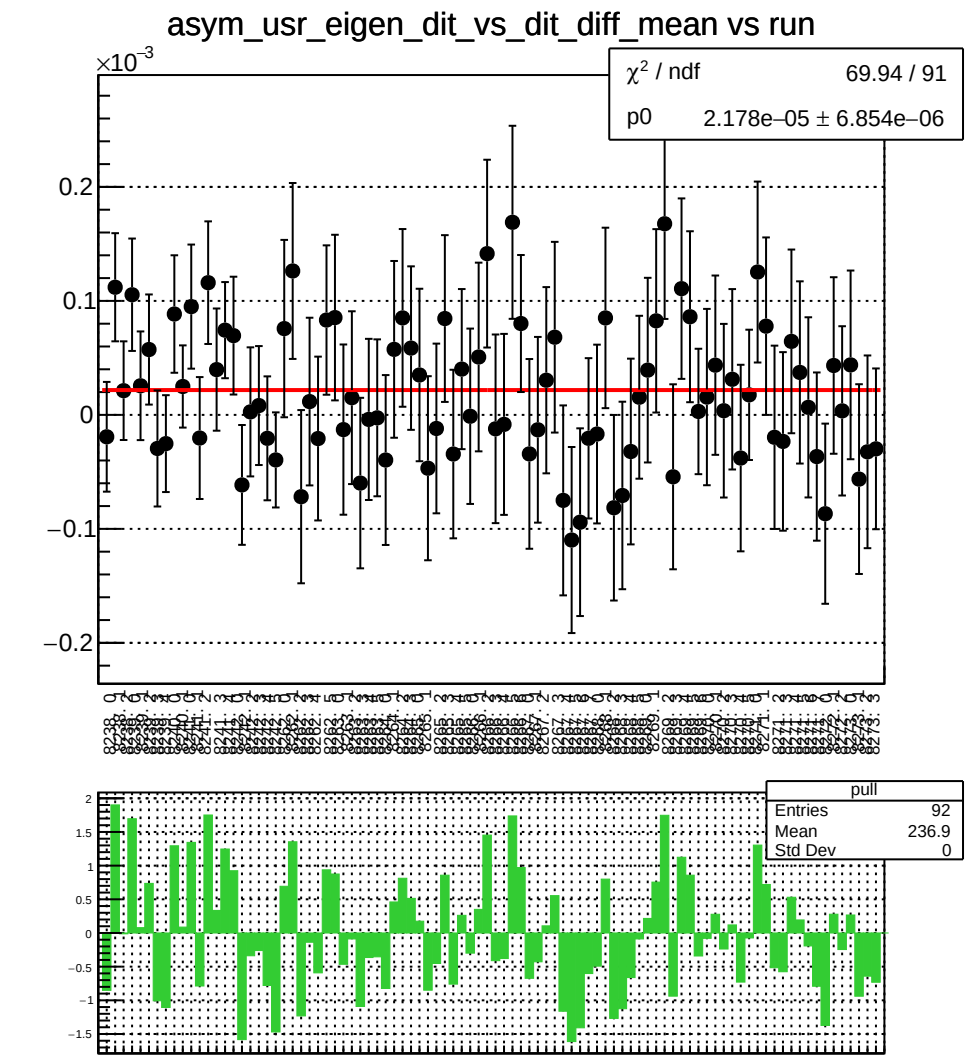

pull1D
Entries 92
Mean 0.04017
Std Dev 0.9729

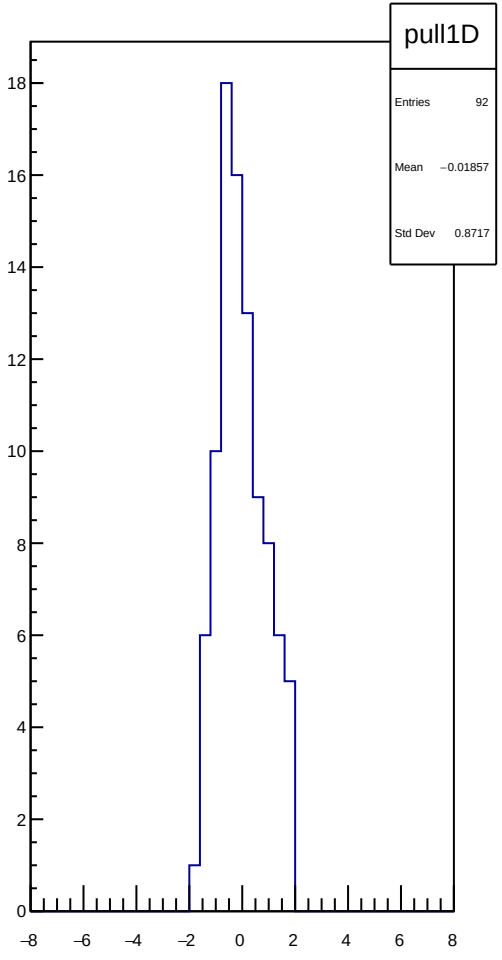

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.083e+05 / 91
p0 62.56 ± 0.04835
120
100
80
60
40

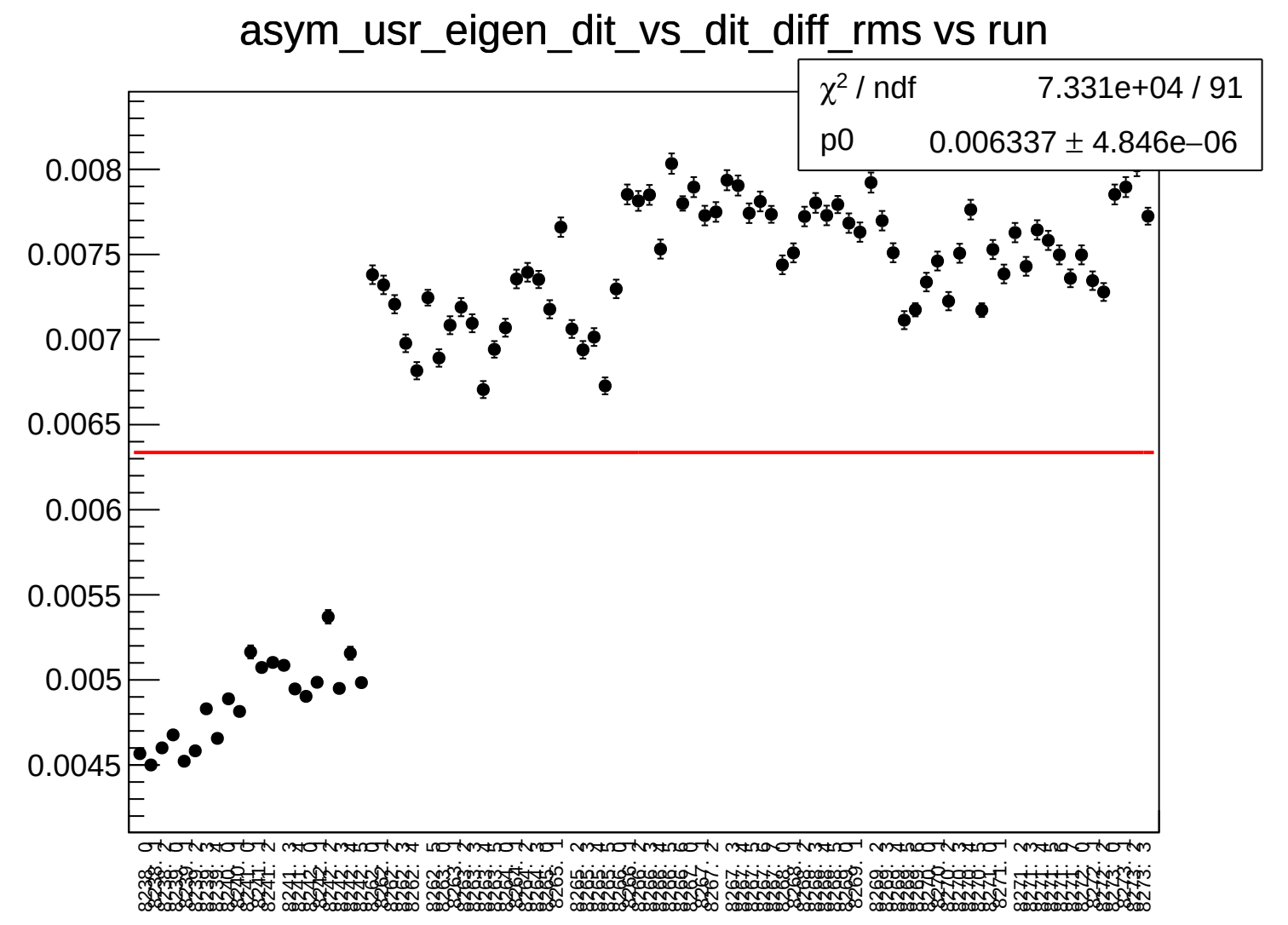

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 100 / 91
p0 0.09351 ± 0.09306
pull
Entries 92
Mean −11.39
Std Dev 0

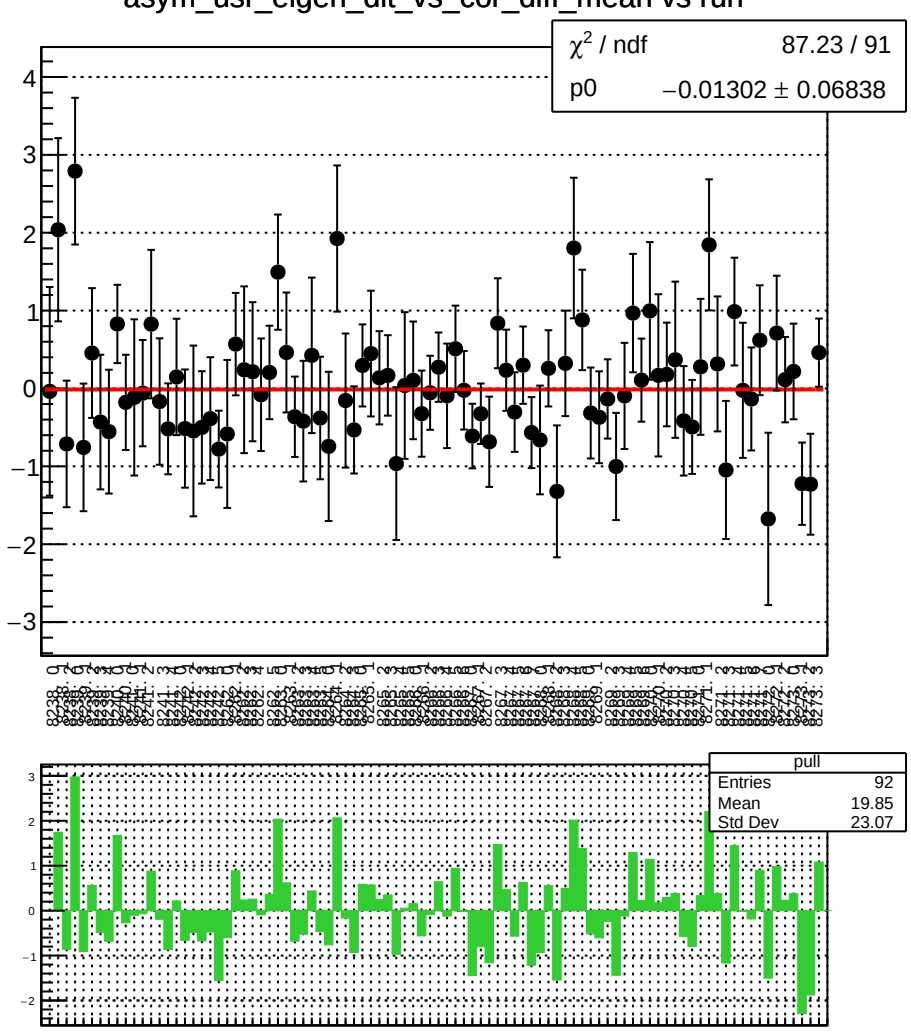

pull1D
Entries 92
Mean 0.01943
Std Dev 1.043

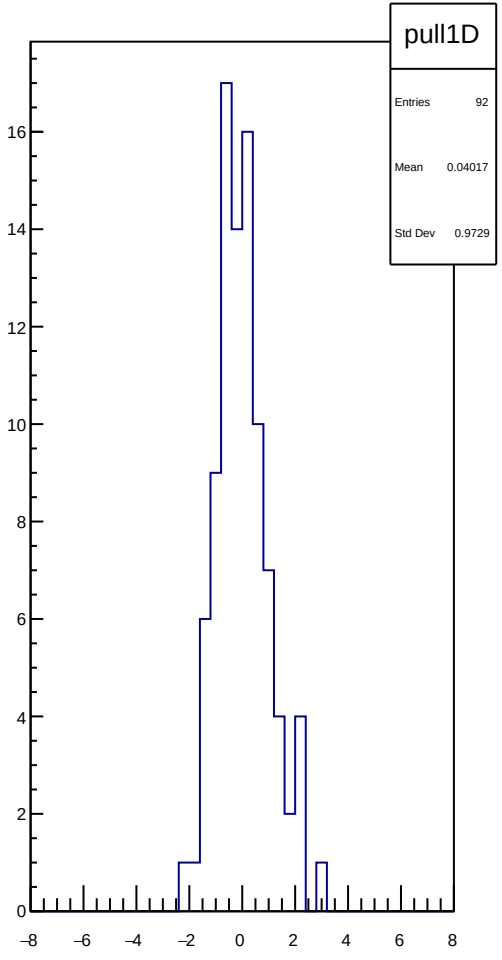

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.98e+04 / 91
p0 86.63 ± 0.0658
140
130
120
110
100
90
80
70
60

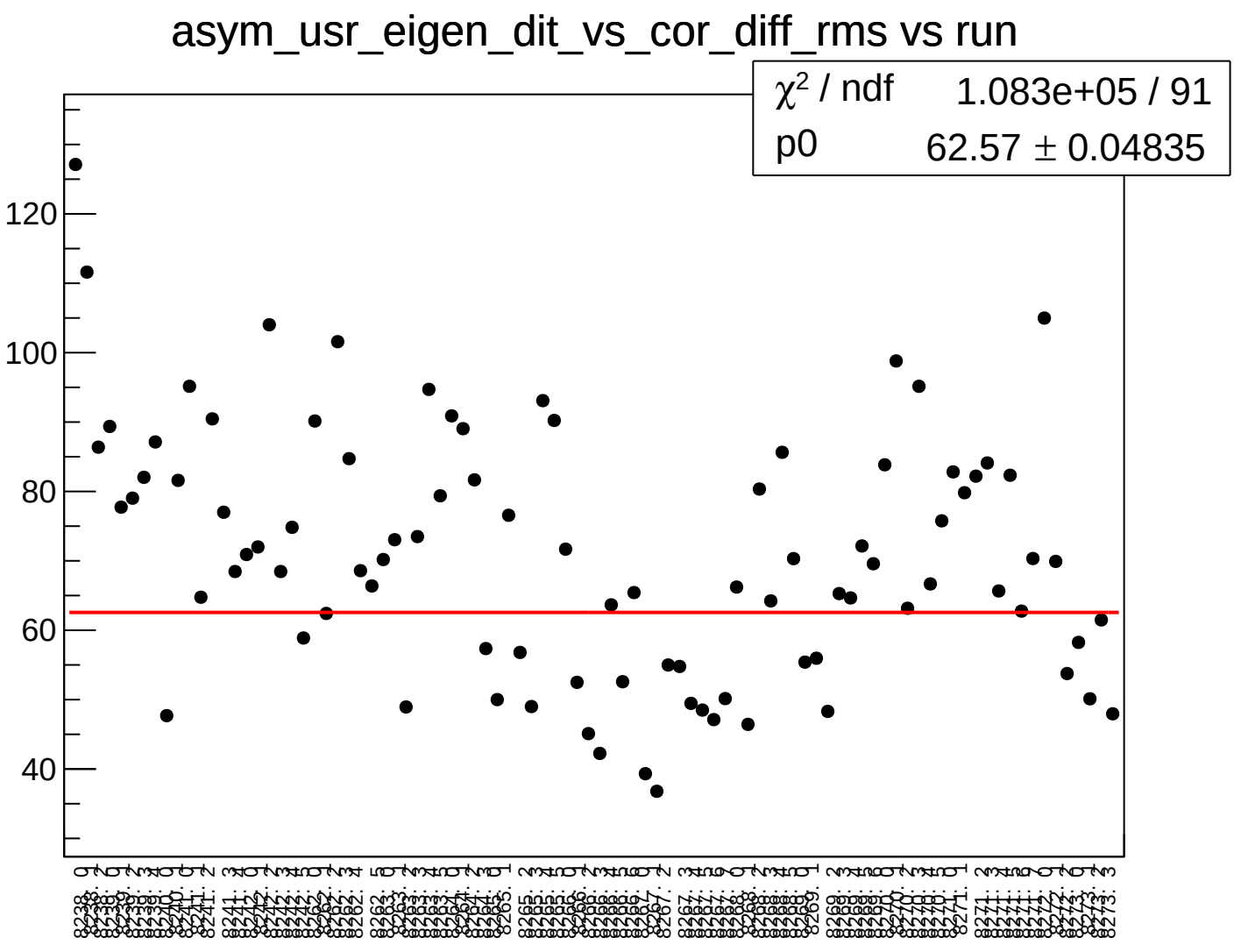

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.94 / 91
p0 2.178e−05 ± 6.854e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 92
Mean 236.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

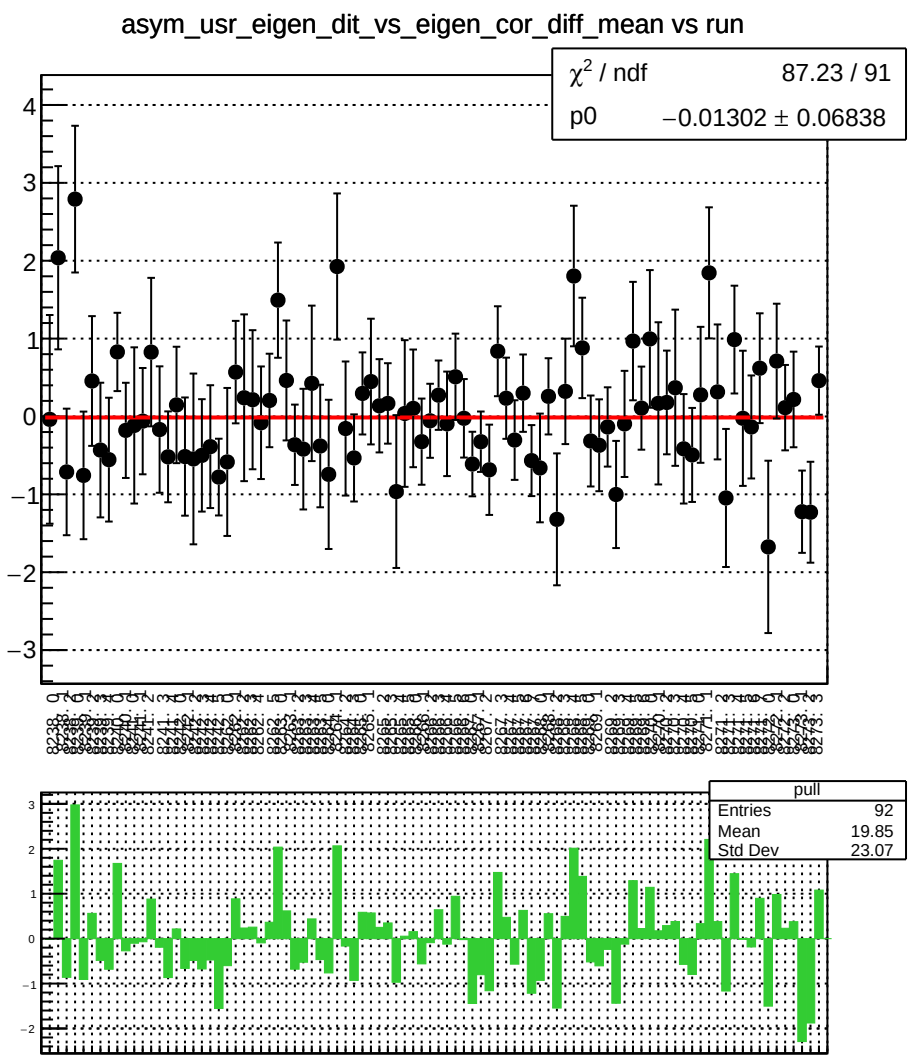

pull1D
Entries 92
Mean −0.01857
Std Dev 0.8717
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

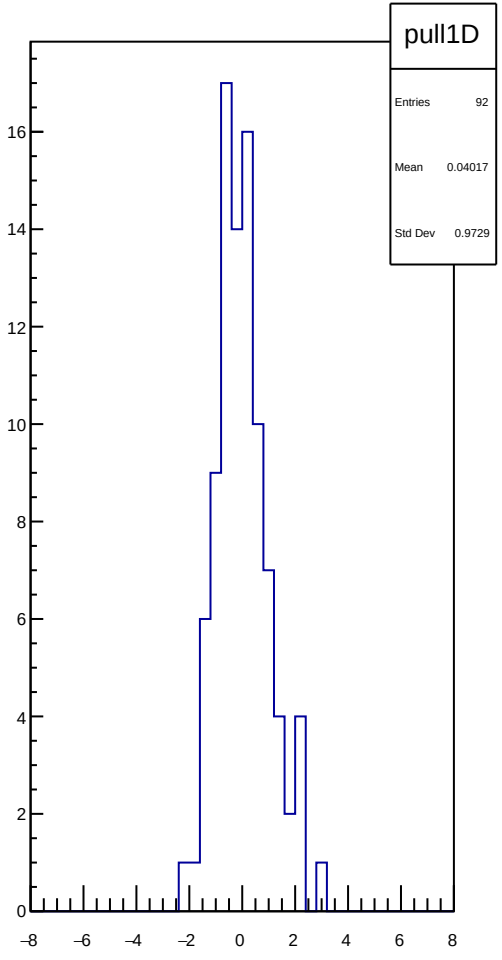

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.331e+04 / 91
p0 0.006337 ± 4.846e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045

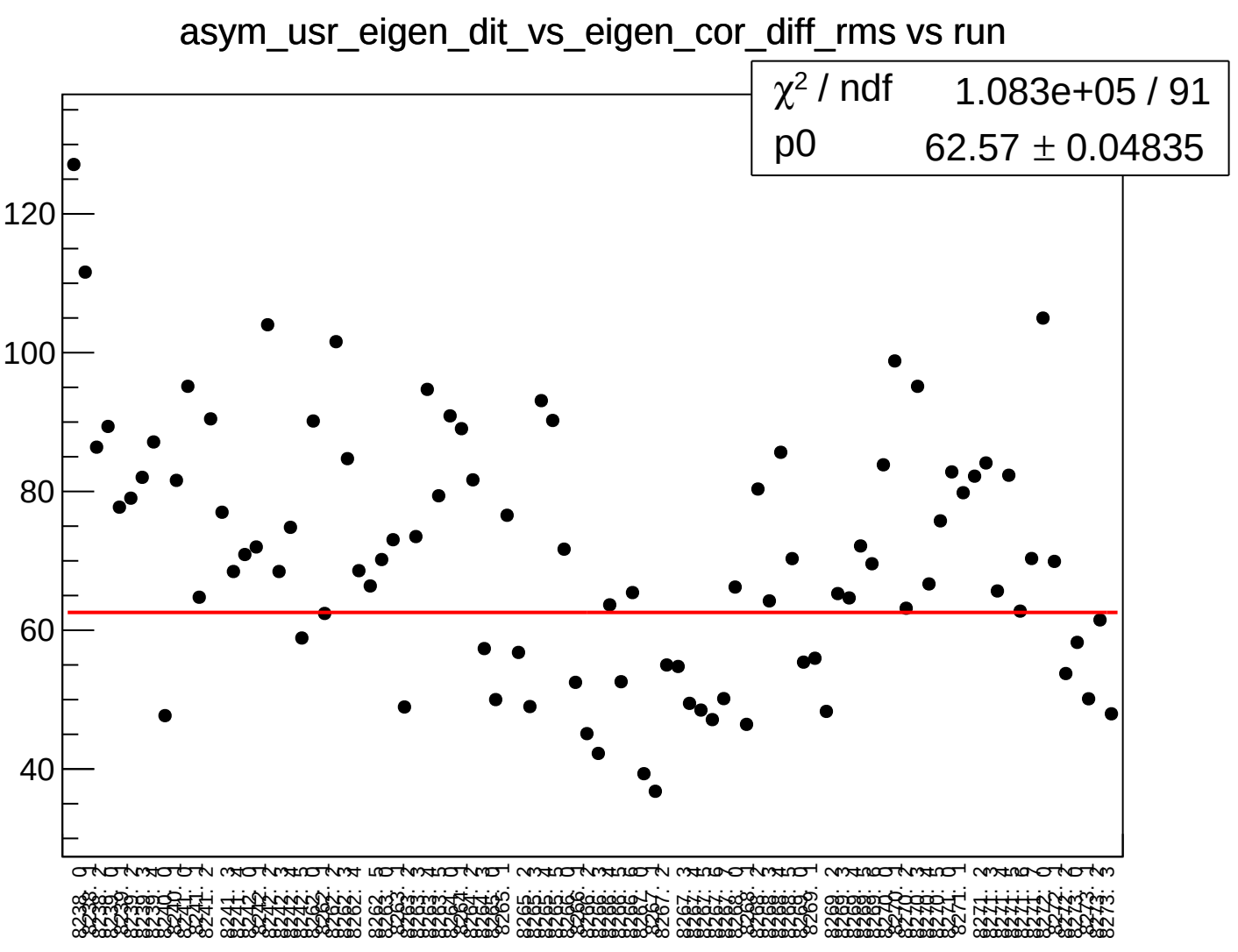

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.23 / 91
p0 −0.01302 ± 0.06838
pull
Entries 92
Mean 19.85
Std Dev 23.07

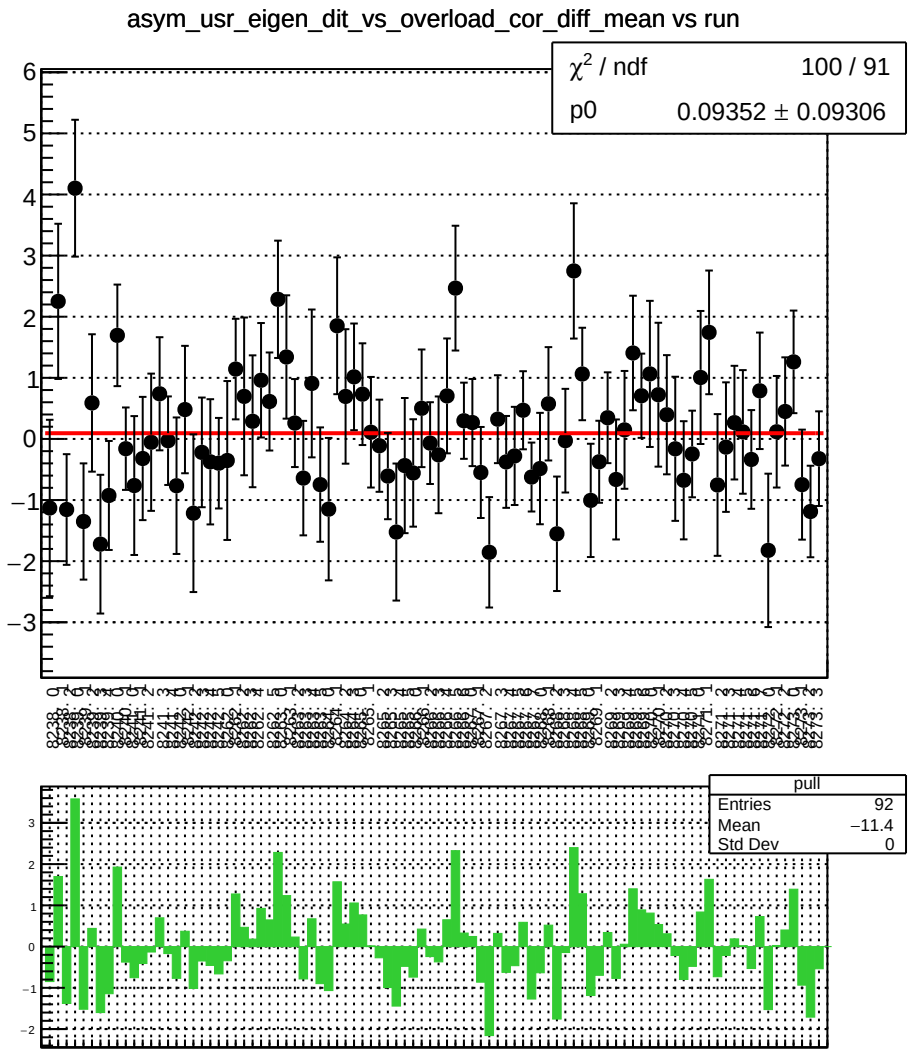

pull1D
Entries 92
Mean 0.04017
Std Dev 0.9729

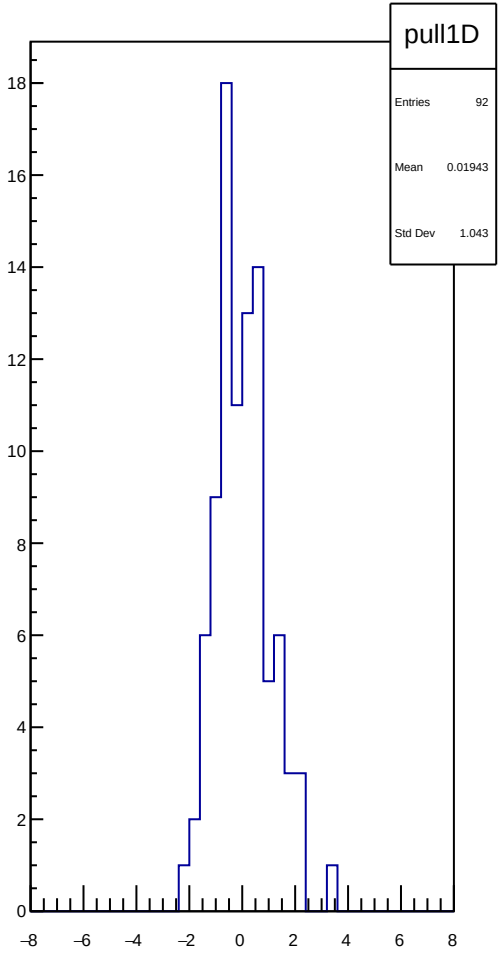

asym_usr_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.083e+05 / 91
p0 62.57 ± 0.04835
120
100
80
60
40

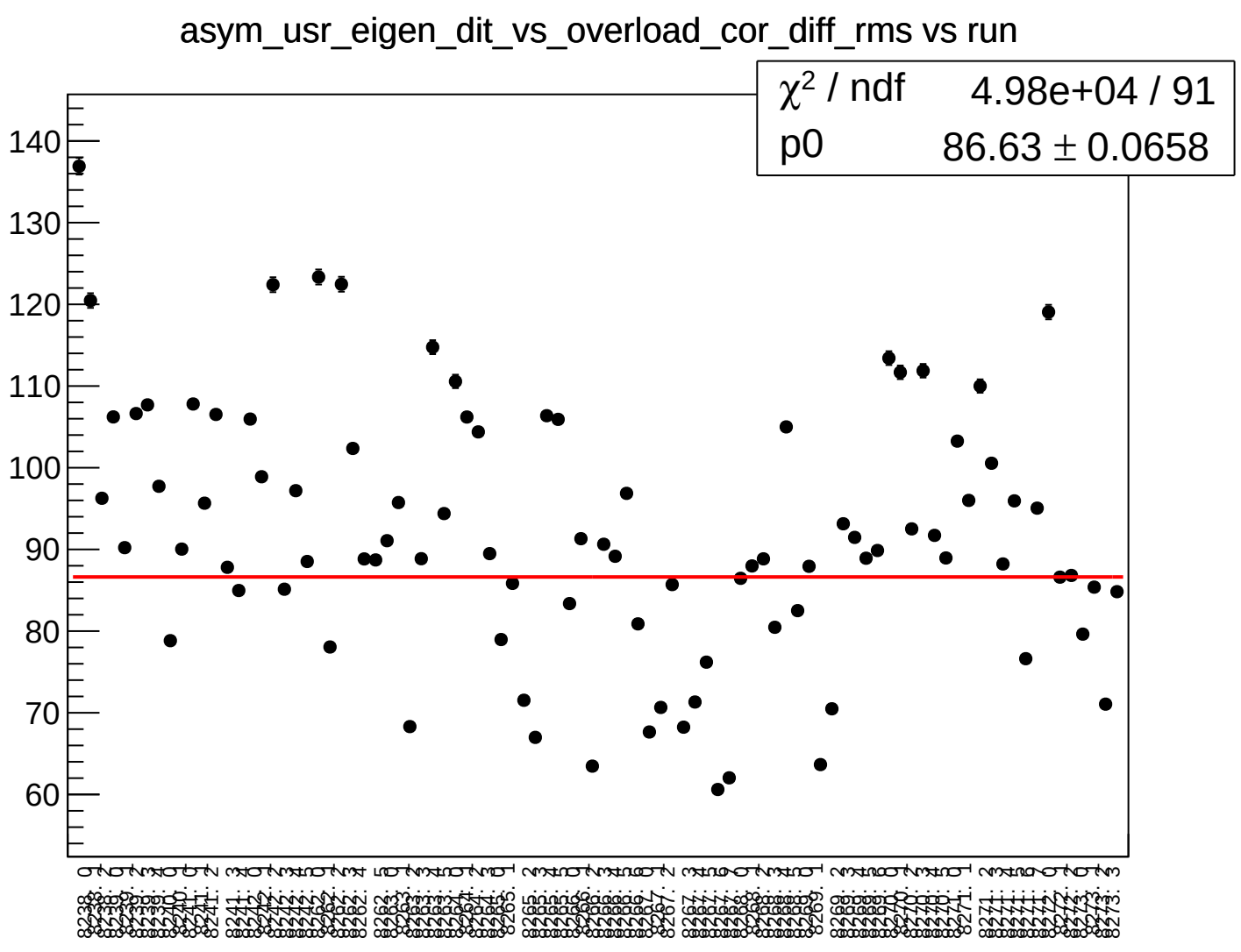

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.23 / 91
p0 −0.01302 ± 0.06838
pull
Entries 92
Mean 19.85
Std Dev 23.07

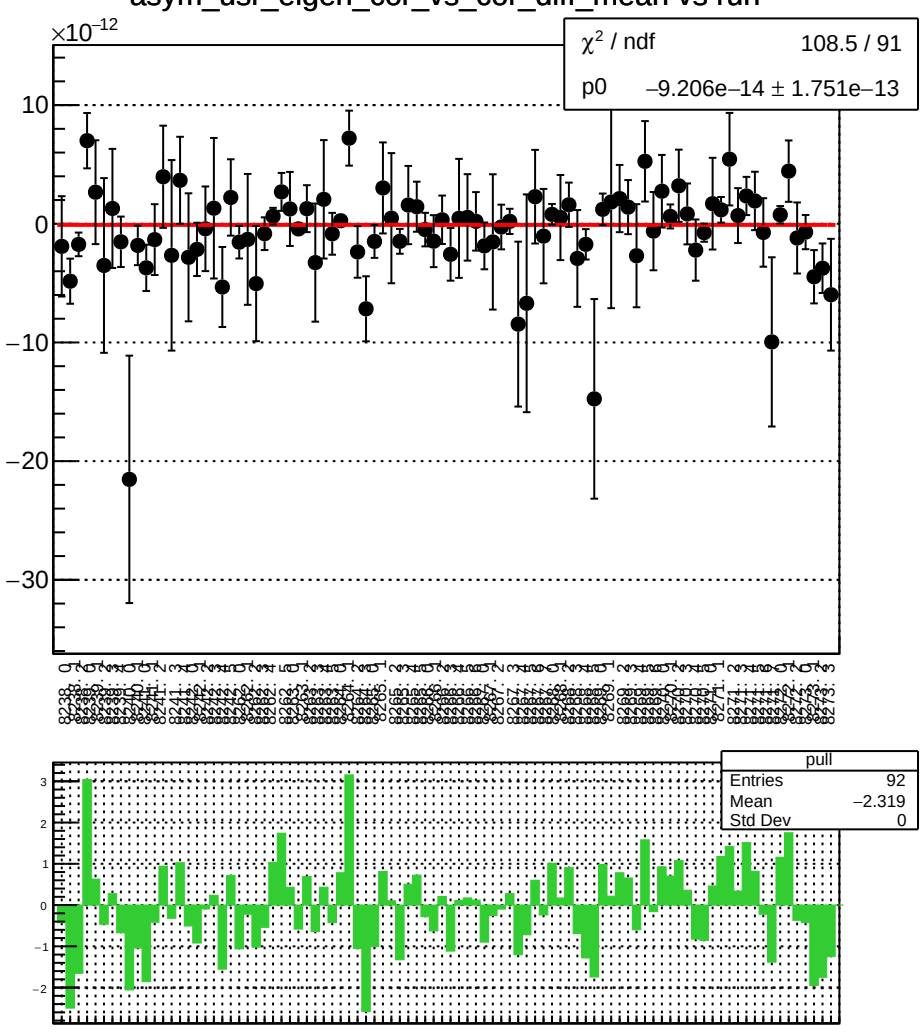

pull1D
Entries 92
Mean 0.04017
Std Dev 0.9729

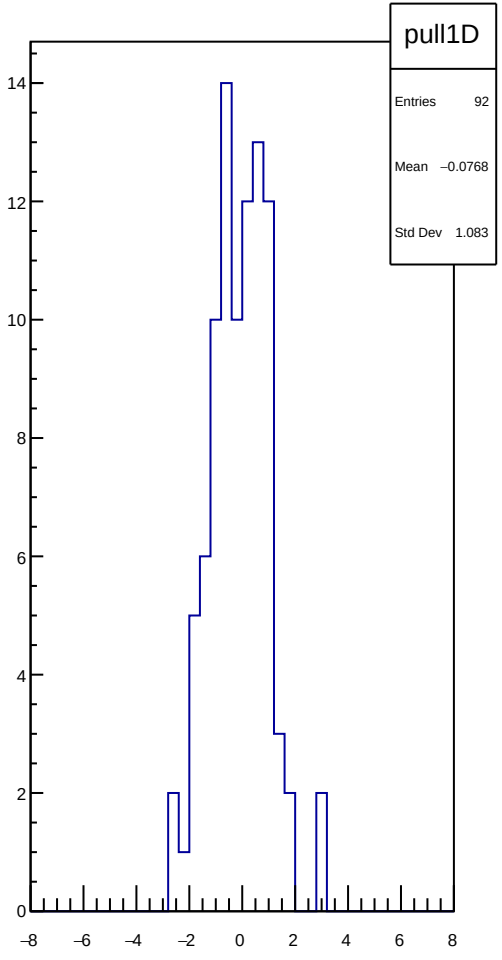

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.083e+05 / 91
p0 62.57 ± 0.04835
120
100
80
60
40

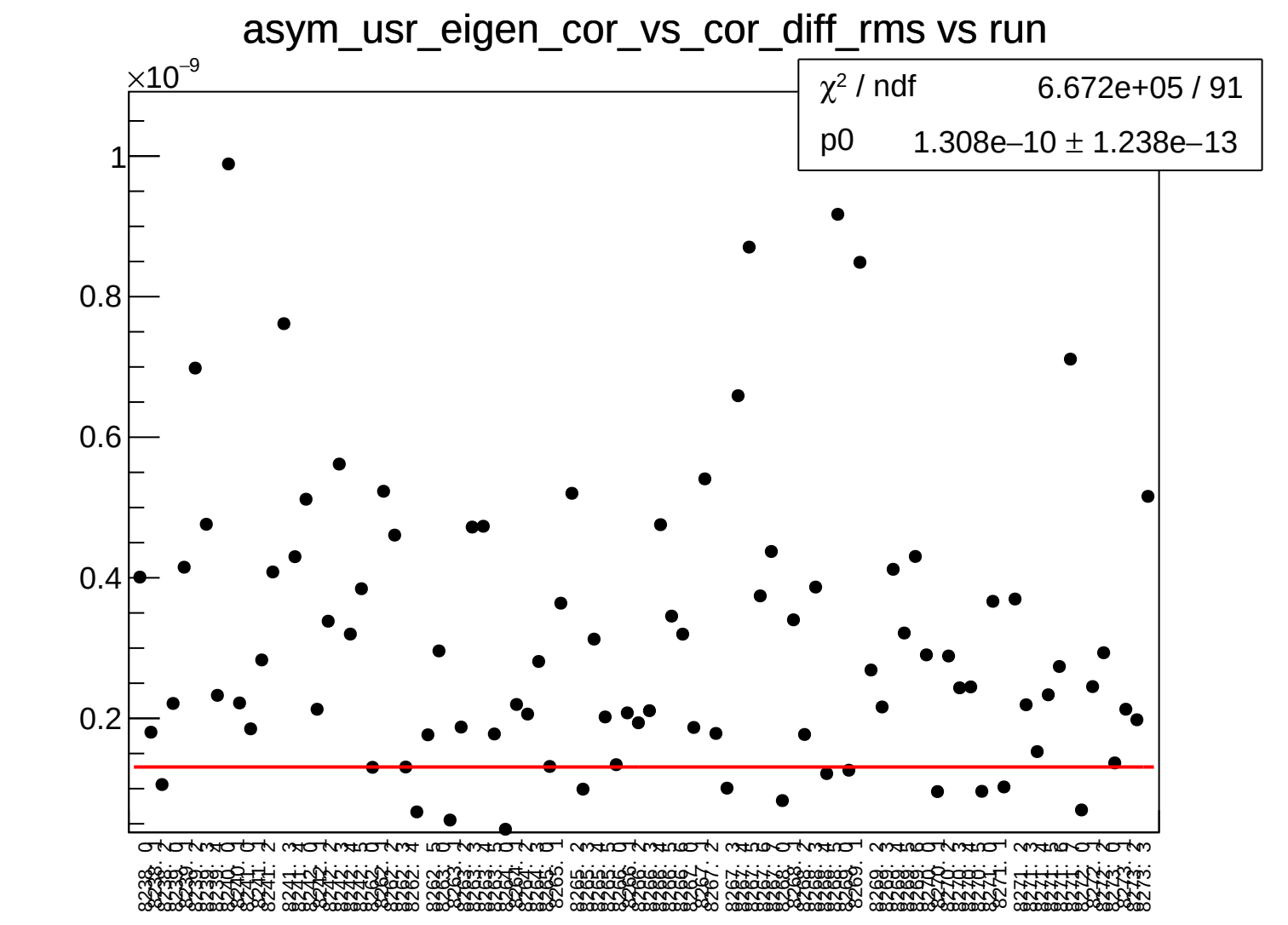

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 100 / 91
p0 0.09352 ± 0.09306
pull
Entries 92
Mean −11.4
Std Dev 0

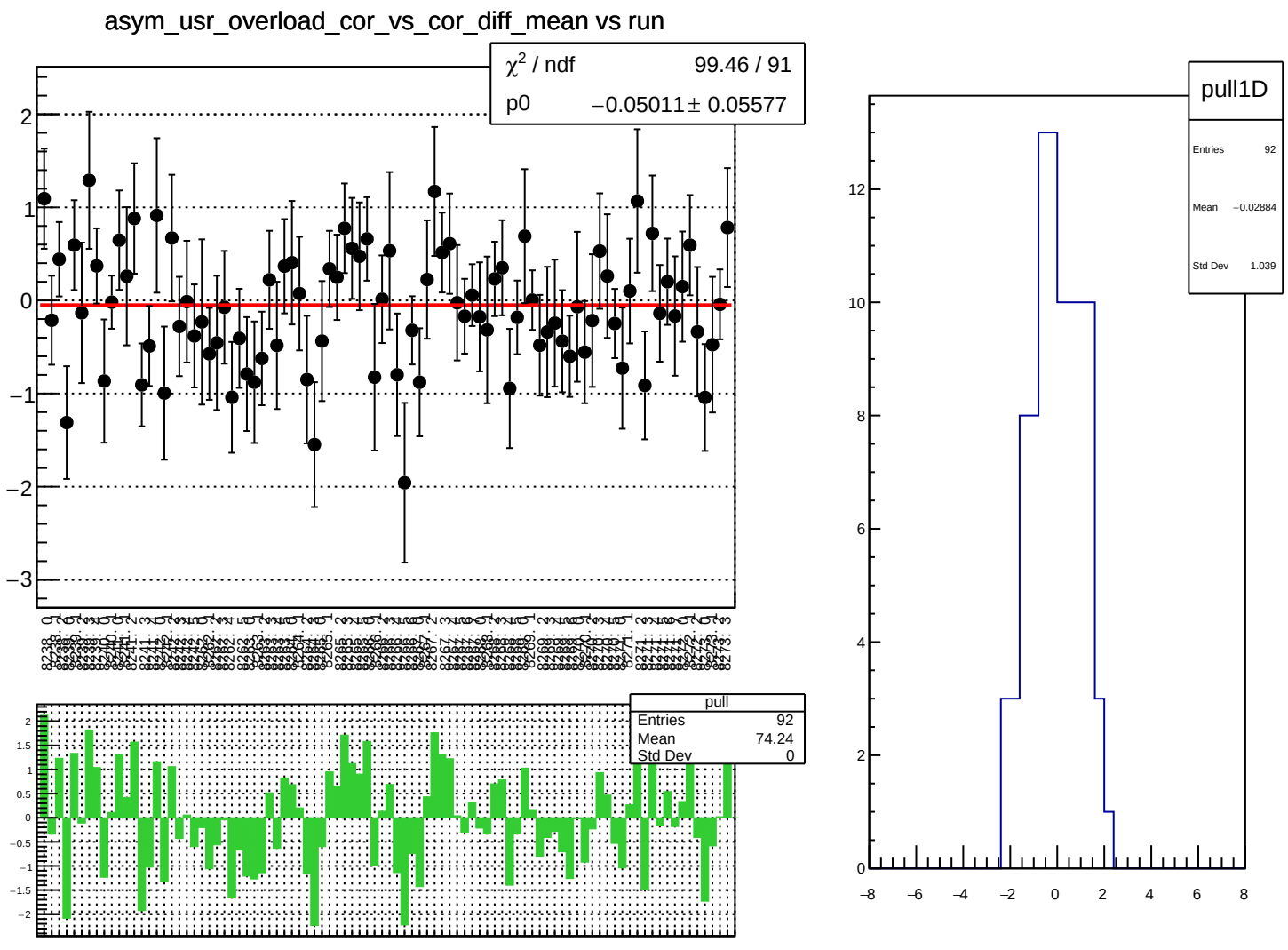

pull1D
Entries 92
Mean 0.01943
Std Dev 1.043

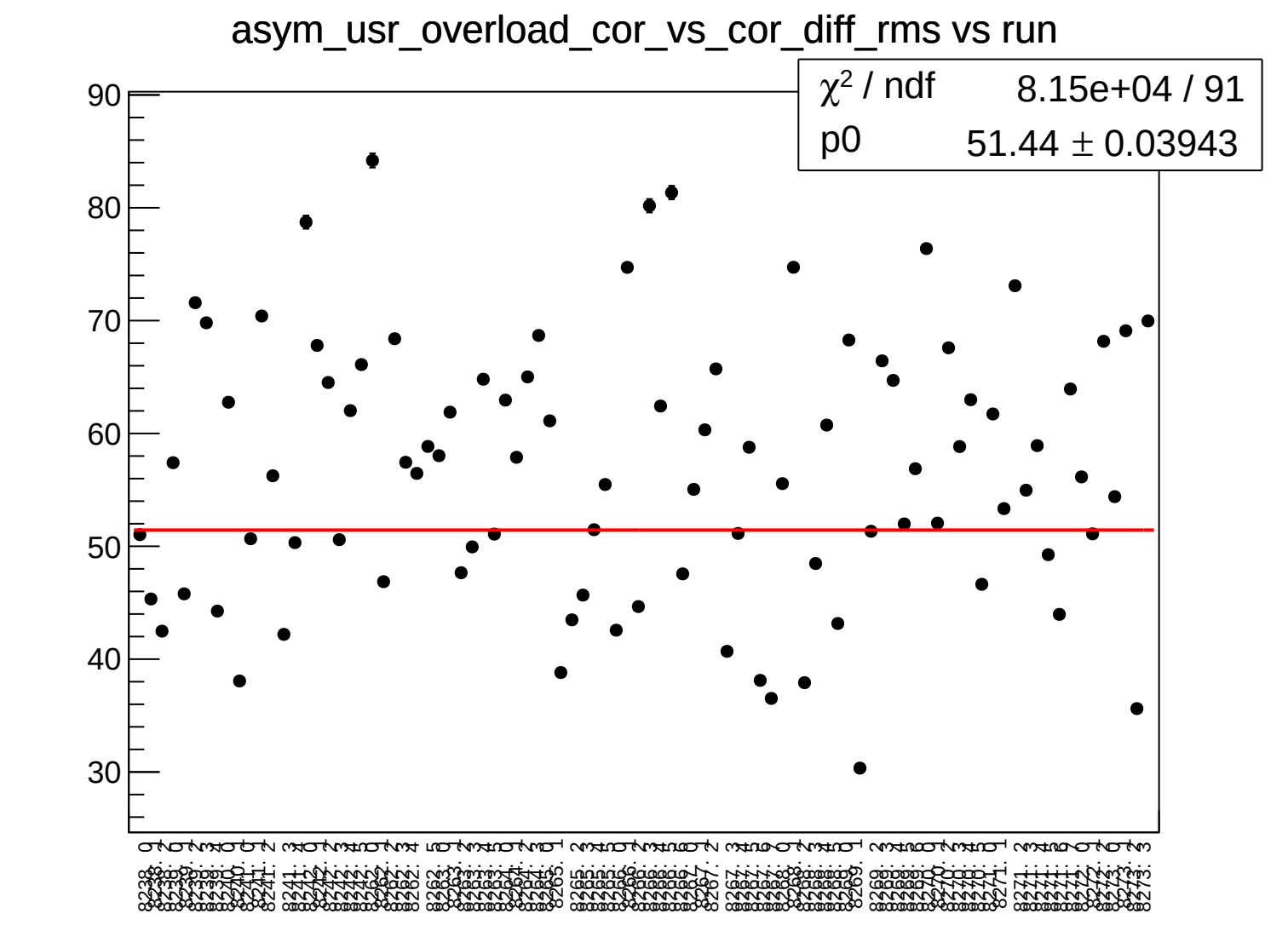

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.98e+04 / 91
p0 86.63 ± 0.0658
140
130
120
110
100
90
80
70
60

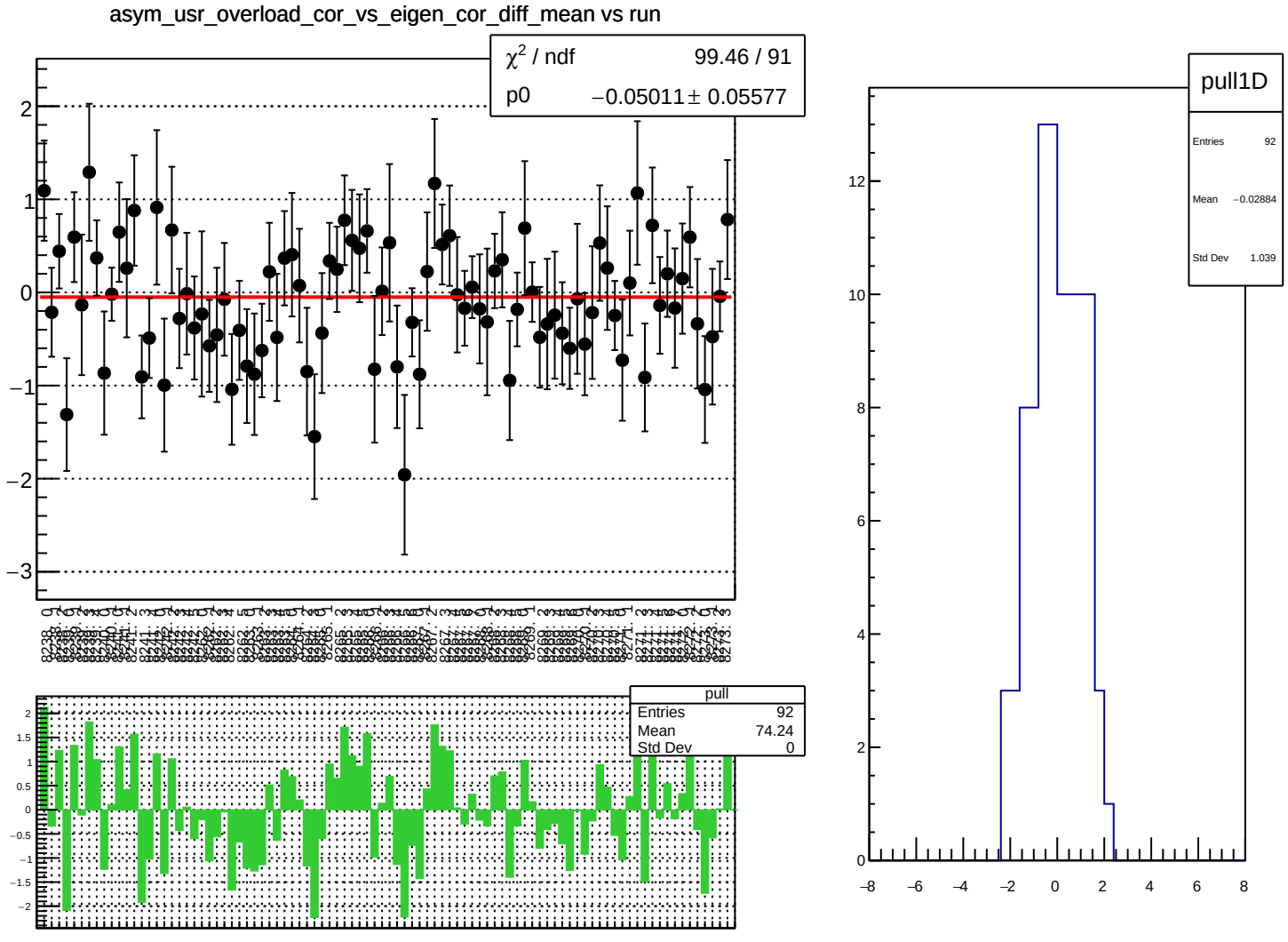

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.5 / 91
p0 −9.206e−14 ± 1.751e−13
pull
Entries 92
Mean −2.319
Std Dev 0

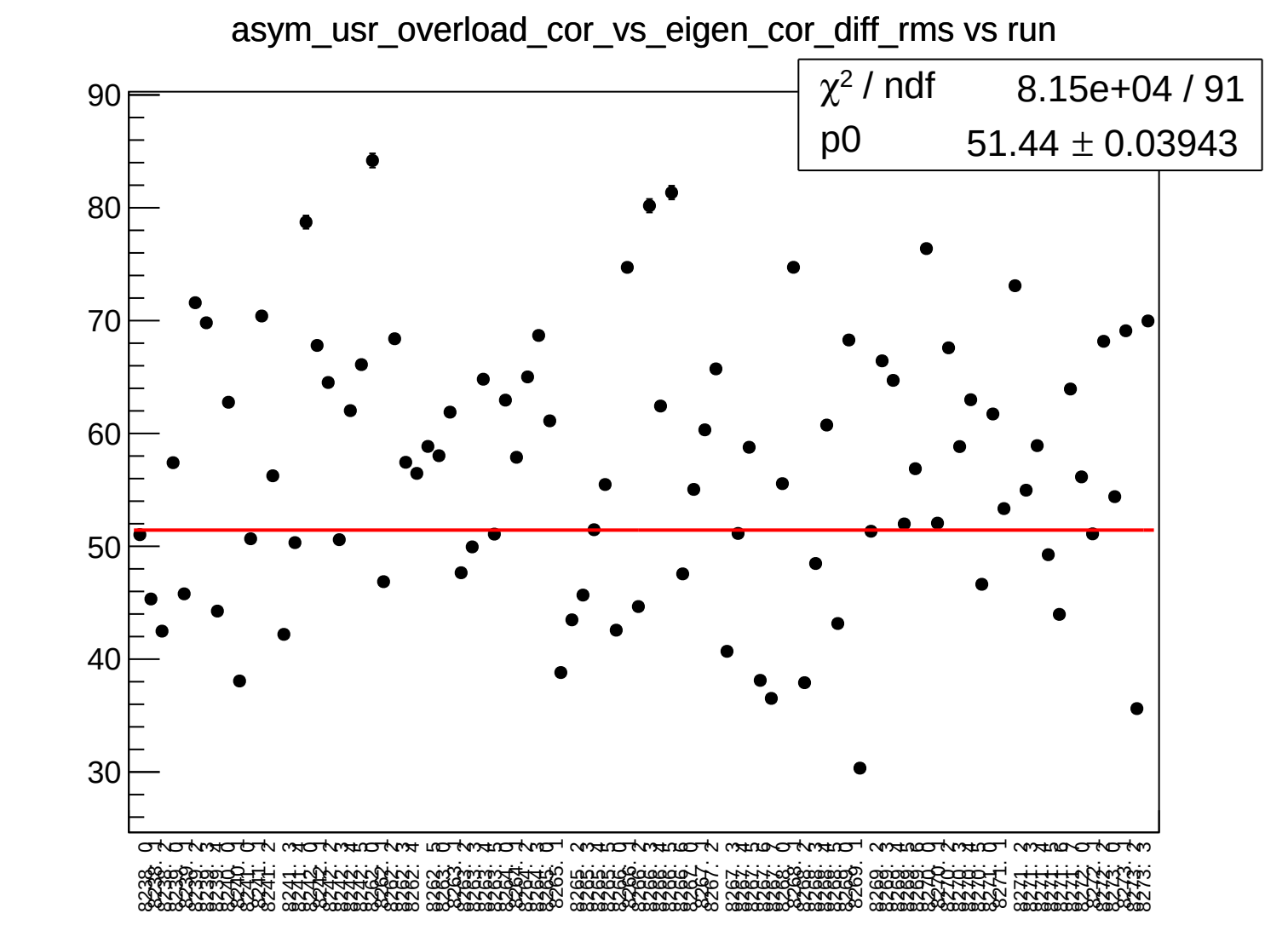

pull1D
Entries 92
Mean −0.0768
Std Dev 1.083

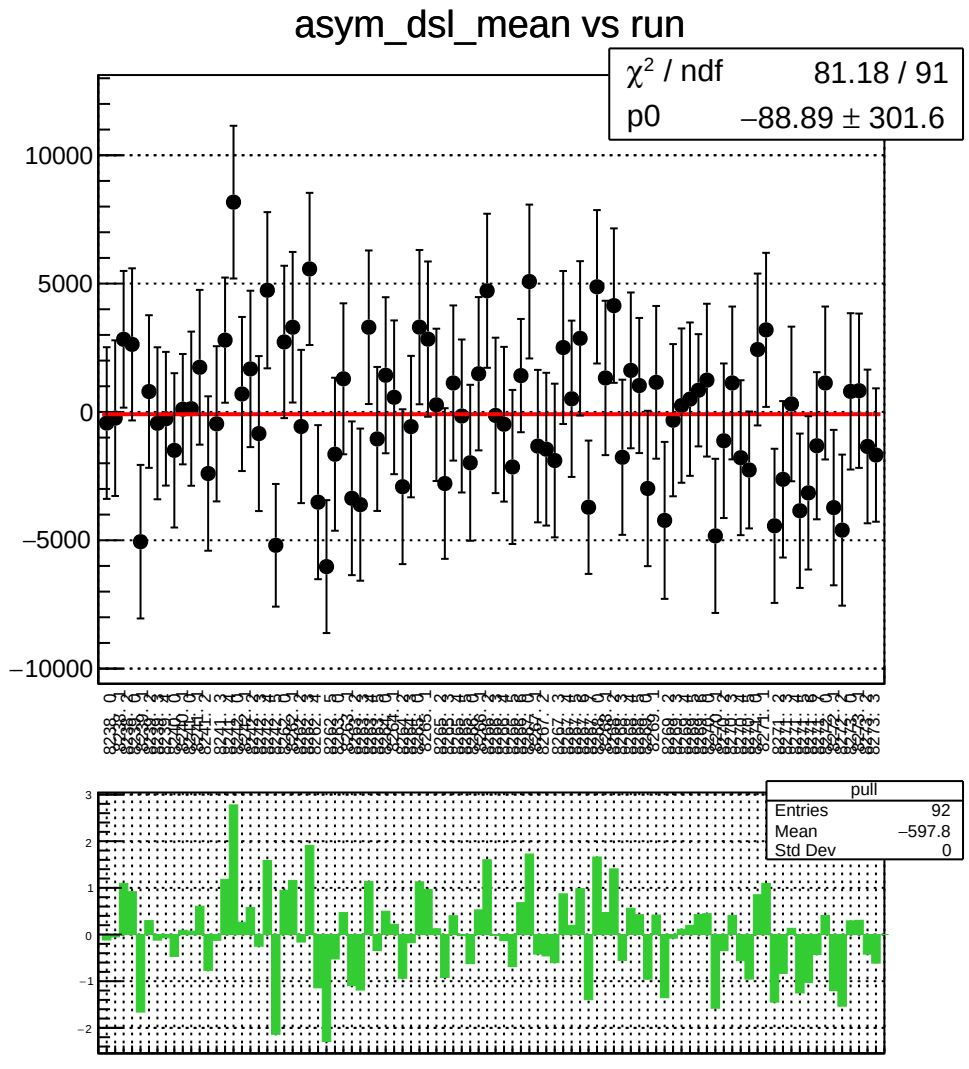

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.672e+05 / 91
p0 1.308e−10 ± 1.238e−13
1
0.8
0.6
0.4
0.2

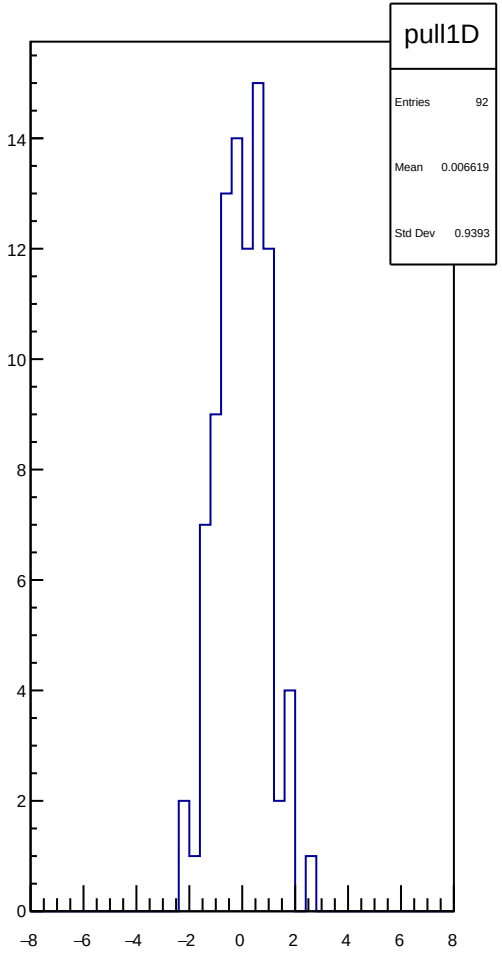

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 99.46 / 91
p0 −0.05011 ± 0.05577
pull
Entries 92
Mean 74.24
Std Dev 0
pull1D
Entries 92
Mean −0.02884
Std Dev 1.039

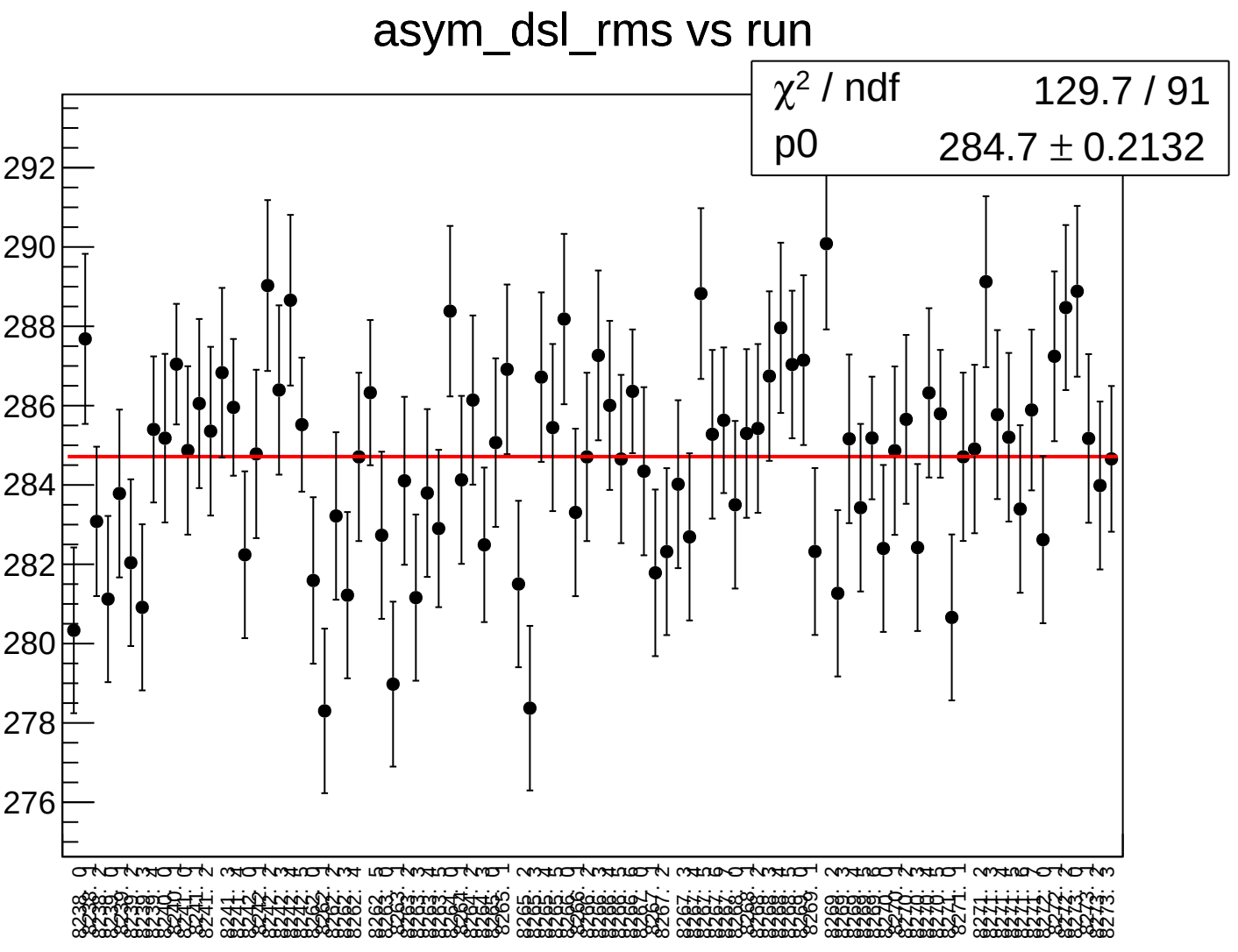

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 8.15e+04 / 91
p0 51.44 ± 0.03943
90
80
70
60
50
40
30

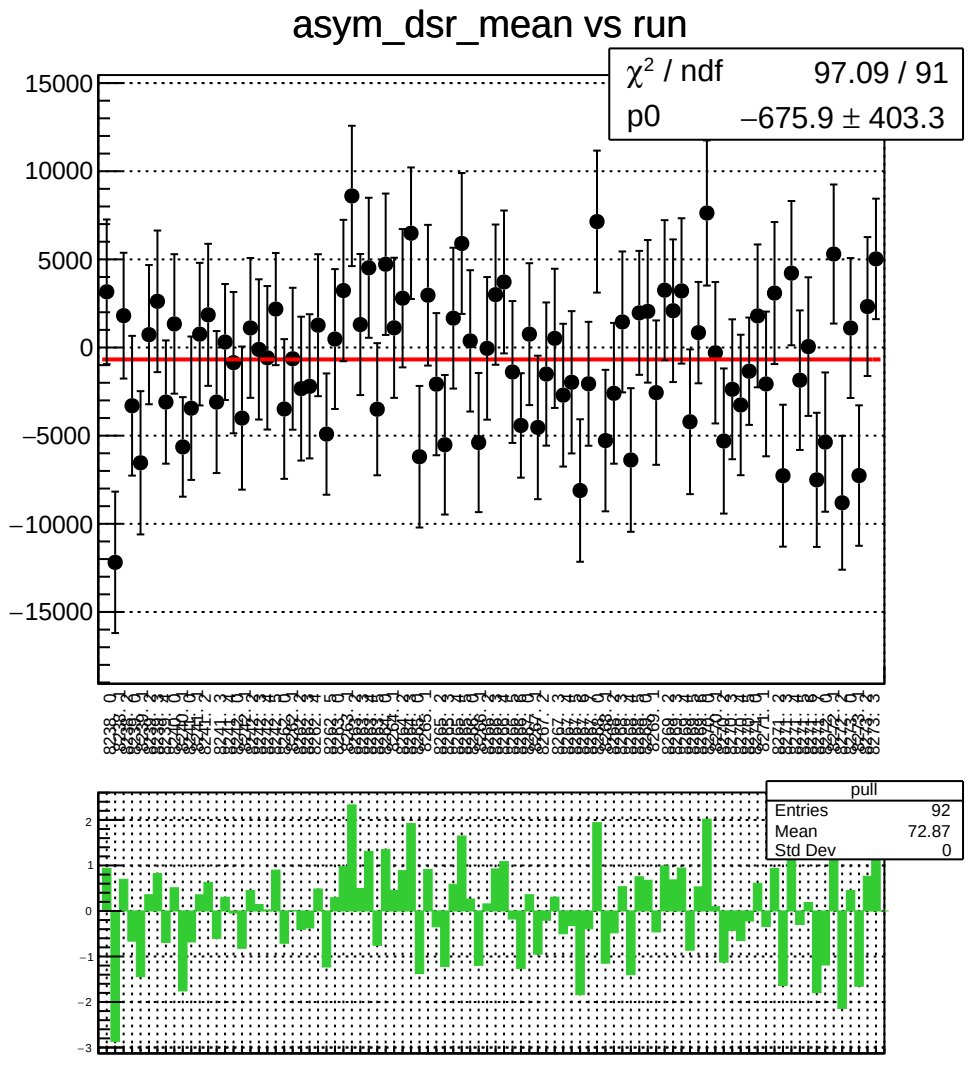

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.46 / 91
p0 −0.05011 ± 0.05577
pull
Entries 92
Mean 74.24
Std Dev 0
pull1D
Entries 92
Mean −0.02884
Std Dev 1.039

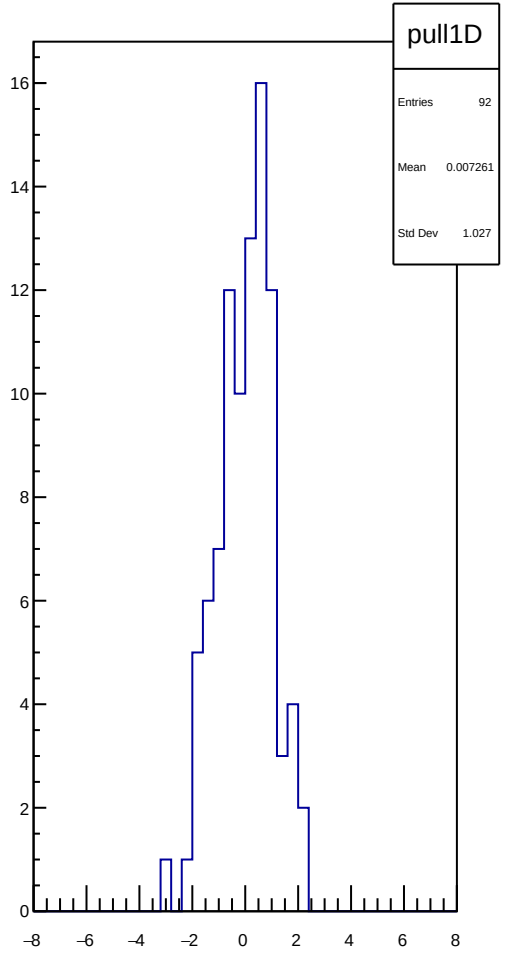

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.15e+04 / 91
p0 51.44 ± 0.03943
90
80
70
60
50
40
30

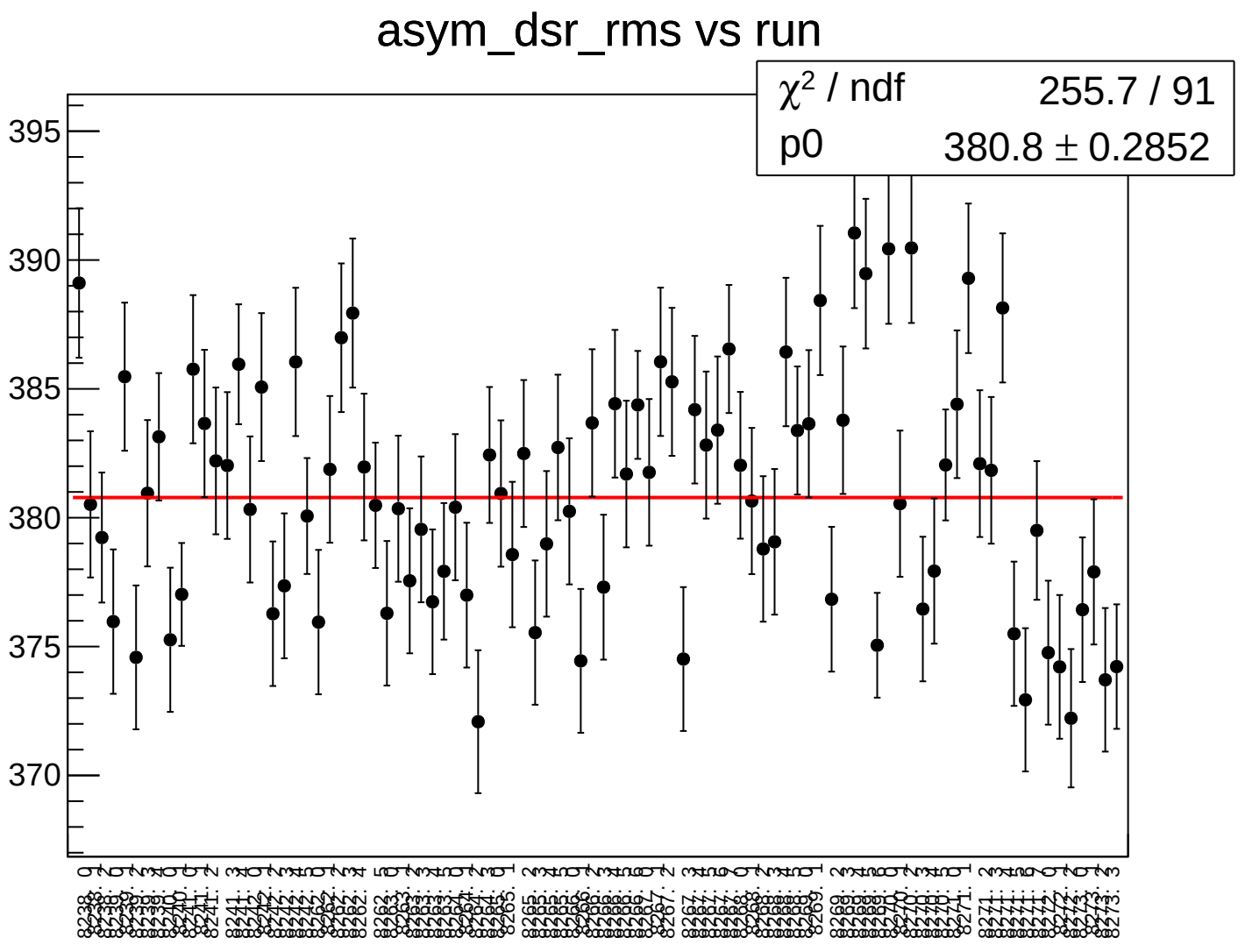

asym_dsl_mean vs run
χ² / ndf 81.18 / 91
p0 −88.89 ± 301.6
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −597.8
Std Dev 0
3
2
1
0
−1
−2

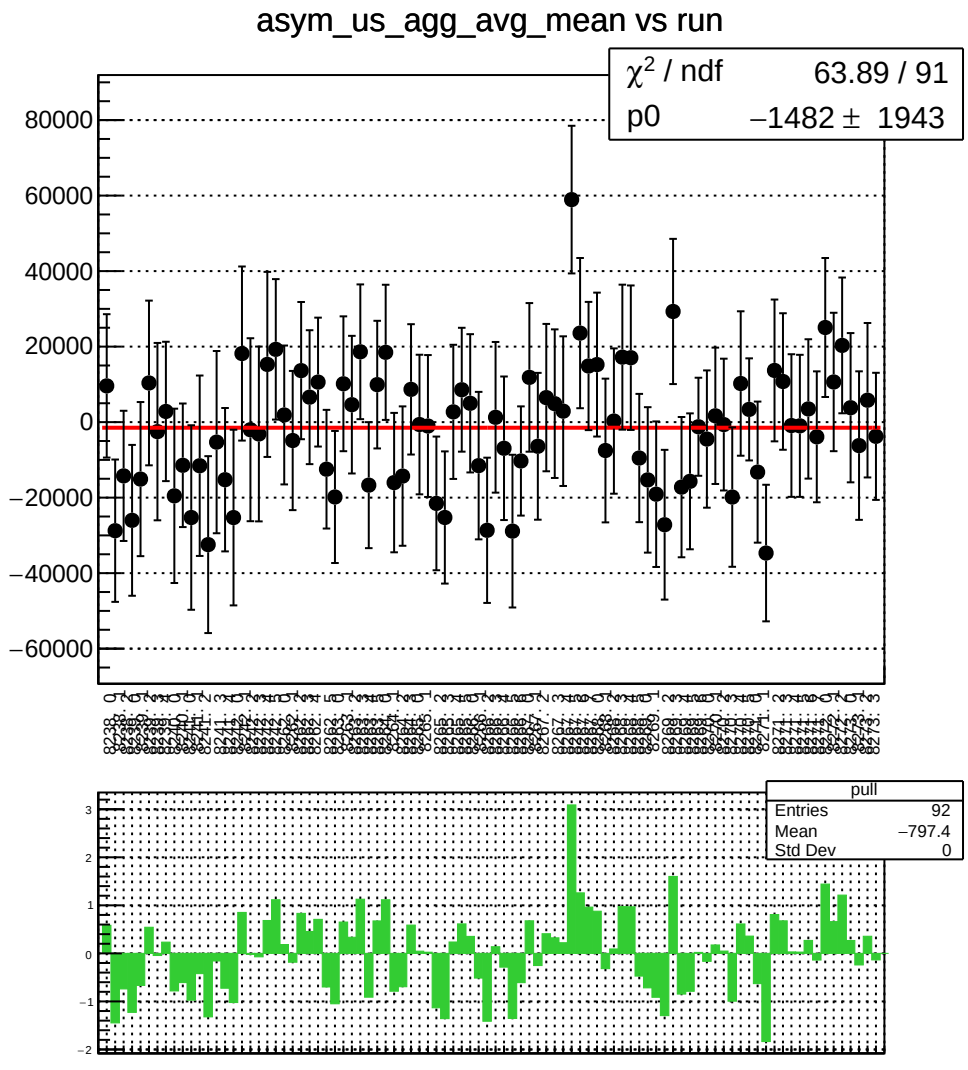

pull1D
Entries 92
Mean 0.006619
Std Dev 0.9393
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

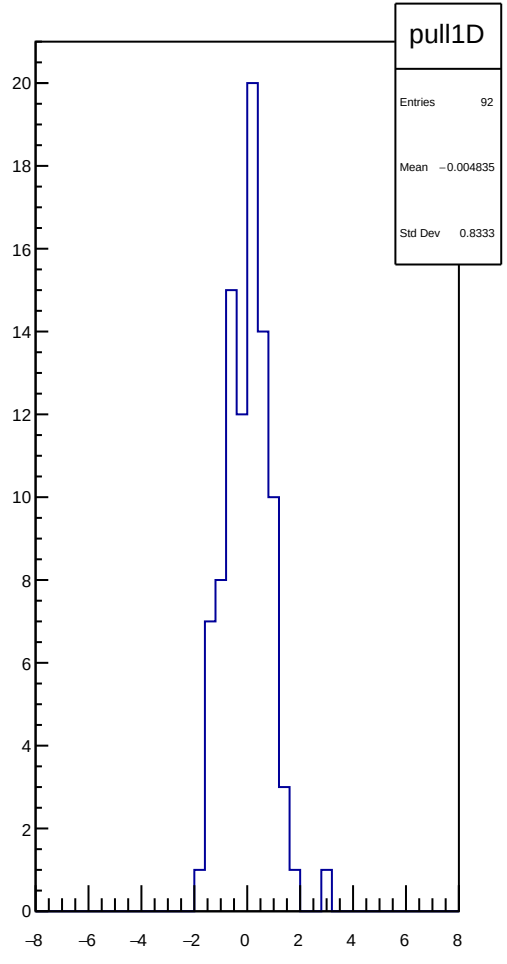

asym_dsl_rms vs run
χ² / ndf 129.7 / 91
p0 284.7 ± 0.2132
292
290
288
286
284
282
280
278
276

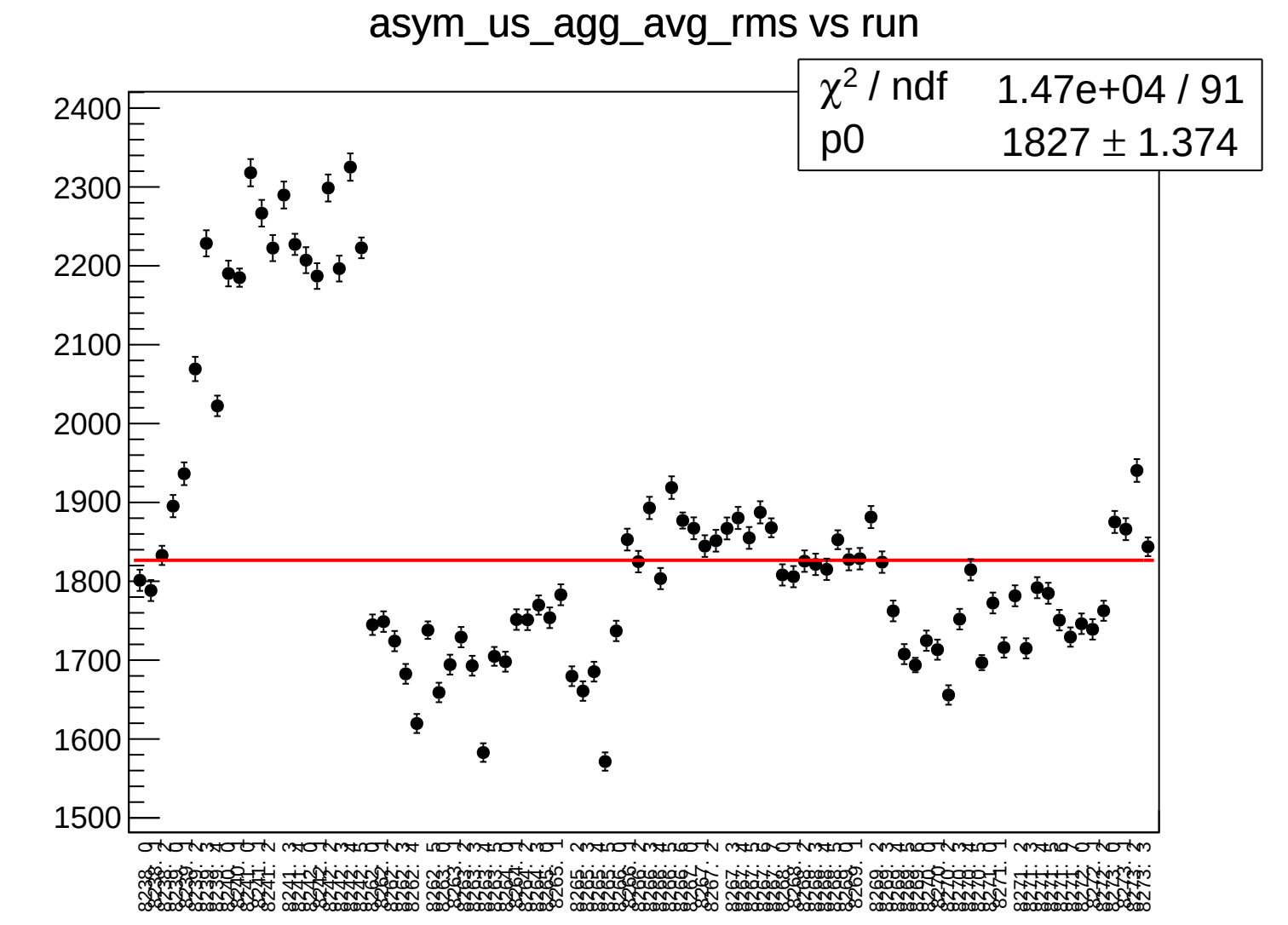

asym_dsr_mean vs run
χ² / ndf 97.09 / 91
p0 −675.9 ± 403.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 72.87
Std Dev 0
2
1
0
−1
−2
−3

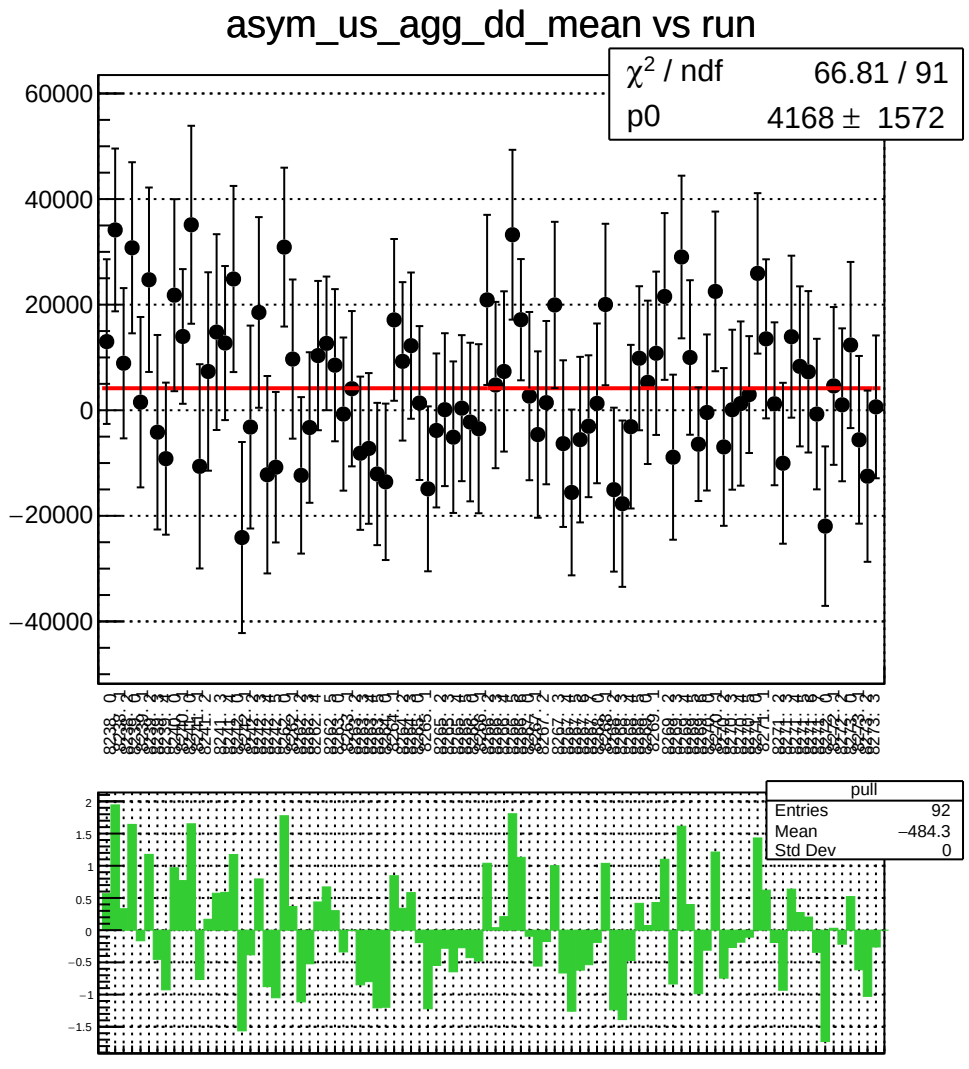

pull1D
Entries 92
Mean 0.007261
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

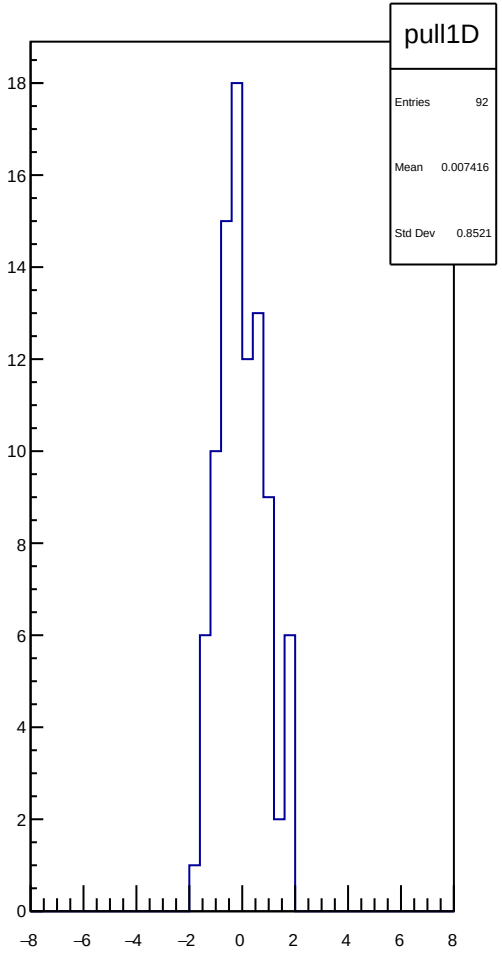

asym_dsr_rms vs run
$\chi^2$ / ndf 255.7 / 91
p0 380.8 ± 0.2852
395
390
385
380
375
370

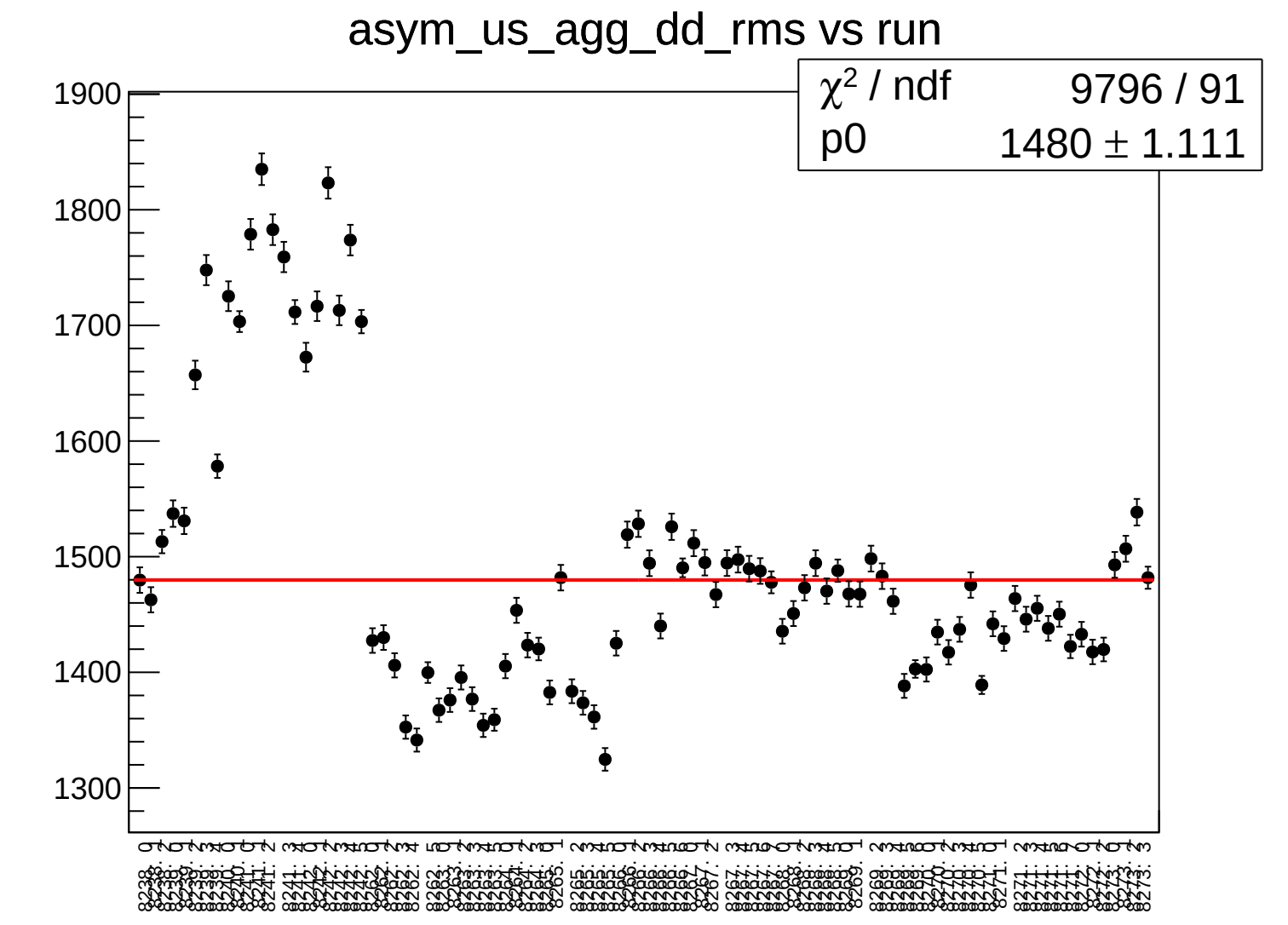

asym_us_agg_avg_mean vs run
χ² / ndf 63.89 / 91
p0 −1482 ± 1943
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −797.4
Std Dev 0
3
2
1
0
−1
−2

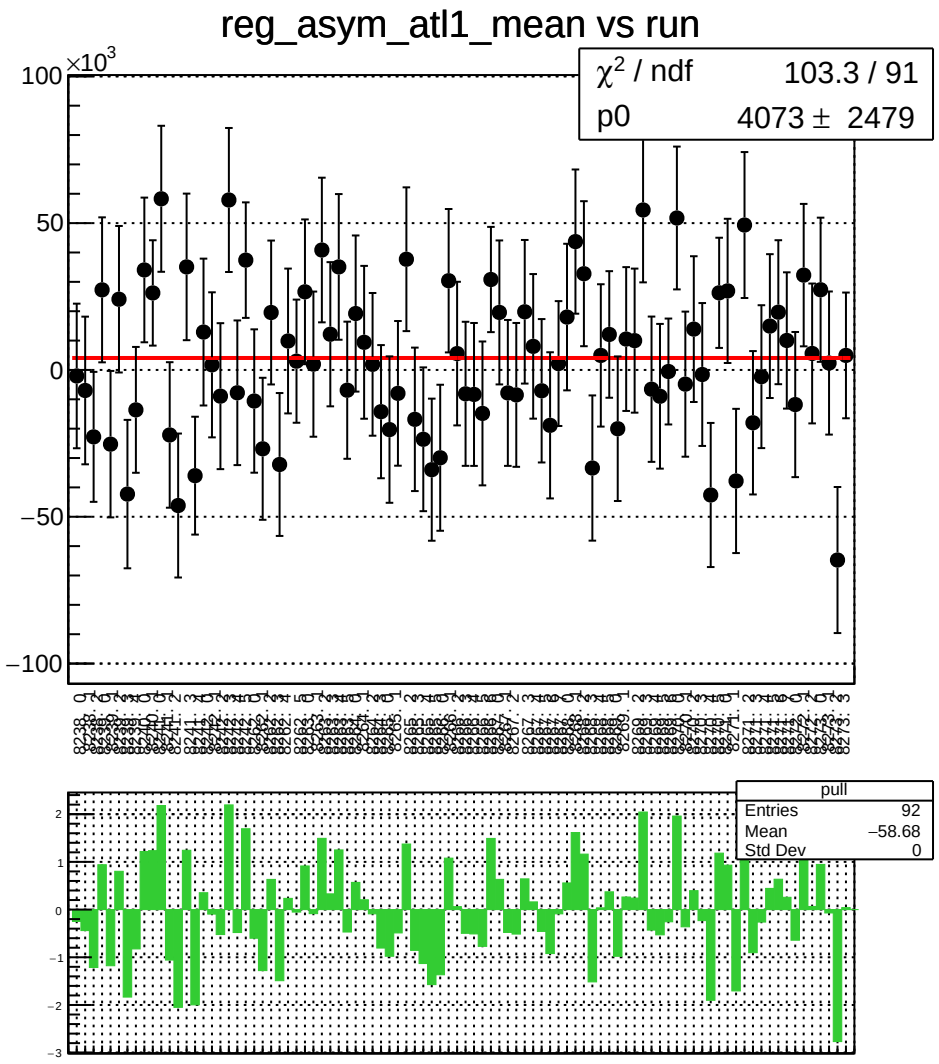

pull1D
Entries 92
Mean −0.004835
Std Dev 0.8333
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

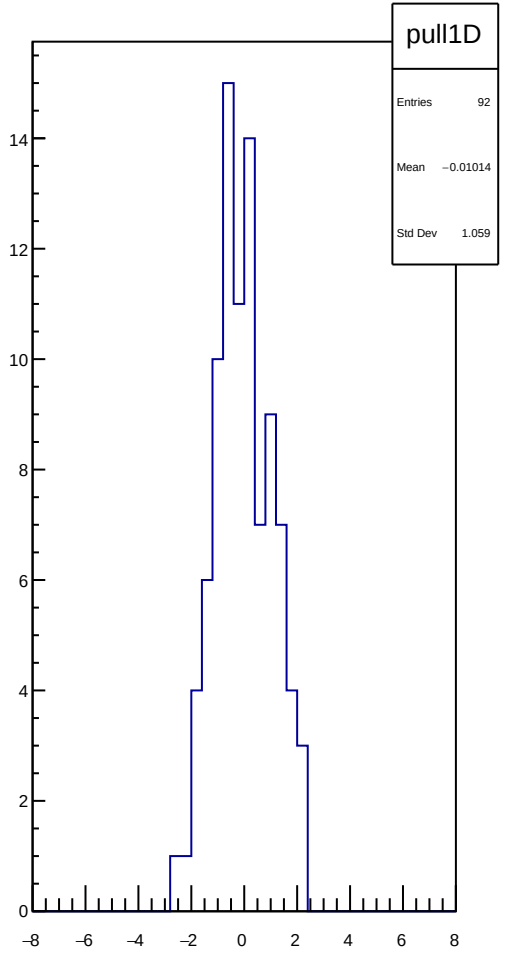

asym_us_agg_avg_rms vs run
χ² / ndf 1.47e+04 / 91
p0 1827 ± 1.374
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500

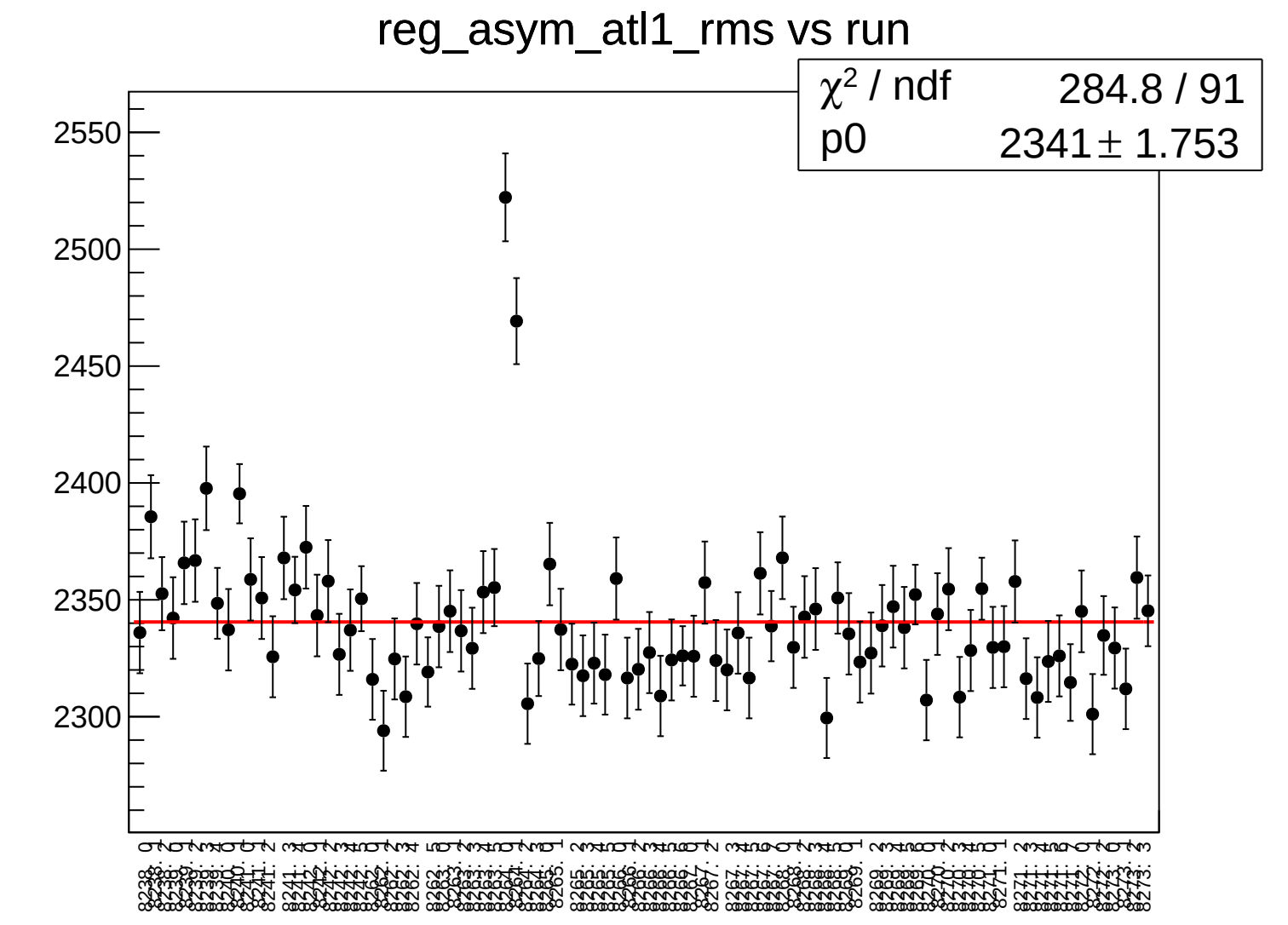

asym_us_agg_dd_mean vs run
χ² / ndf 66.81 / 91
p0 4168 ± 1572
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −484.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

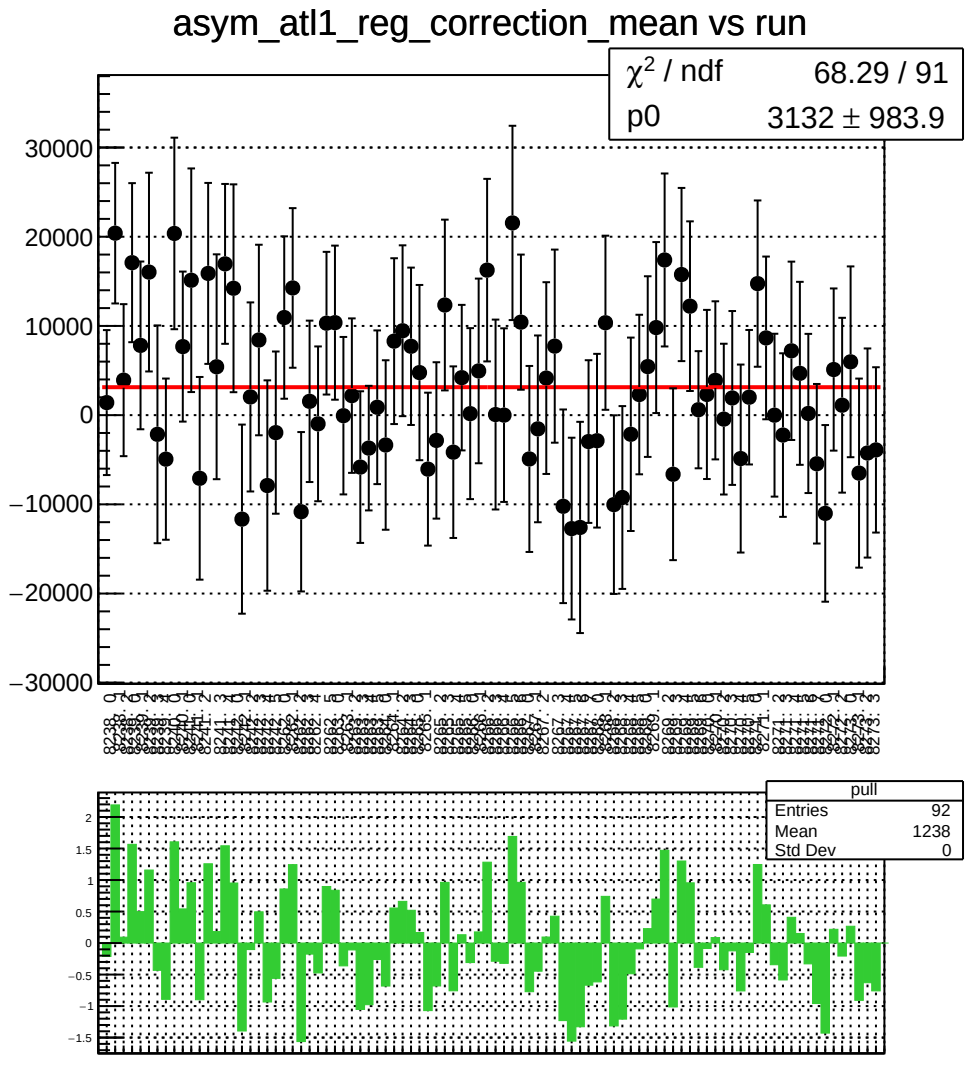

pull1D
Entries 92
Mean 0.007416
Std Dev 0.8521
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

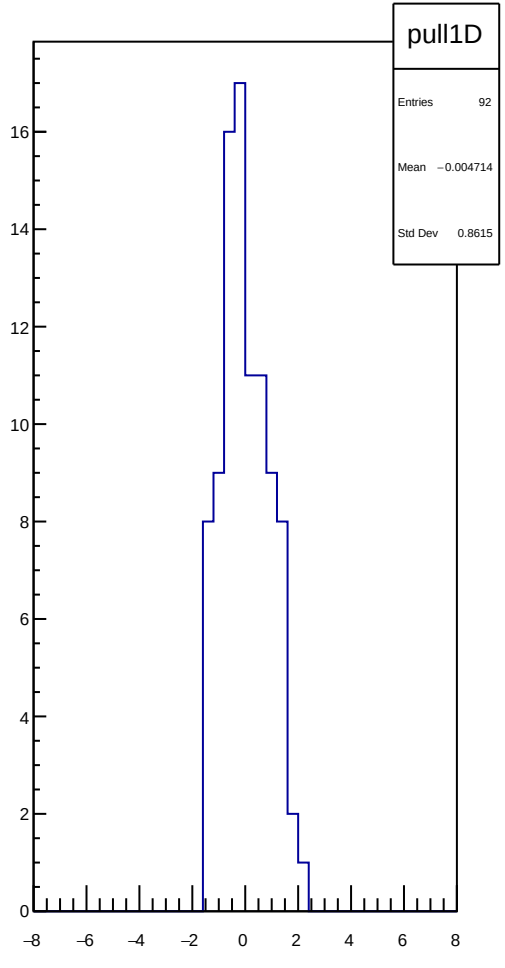

asym_us_agg_dd_rms vs run
$\chi^2$ / ndf 9796 / 91
p0 1480 ± 1.111
1900
1800
1700
1600
1500
1400
1300

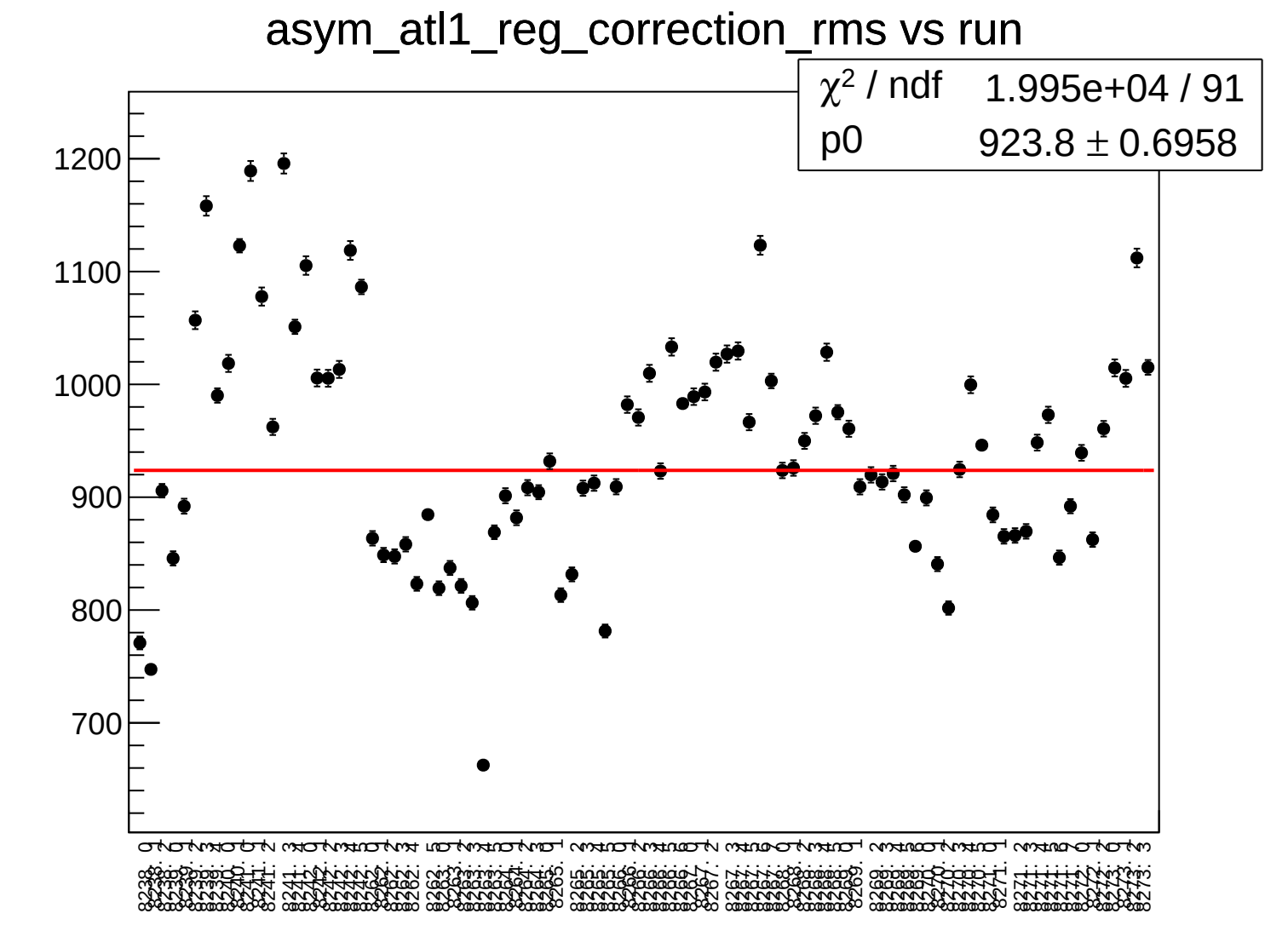

reg_asym_atl1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 103.3 / 91
p0 4073 ± 2479
pull
Entries 92
Mean −58.68
Std Dev 0
2
1
0
−1
−2
−3

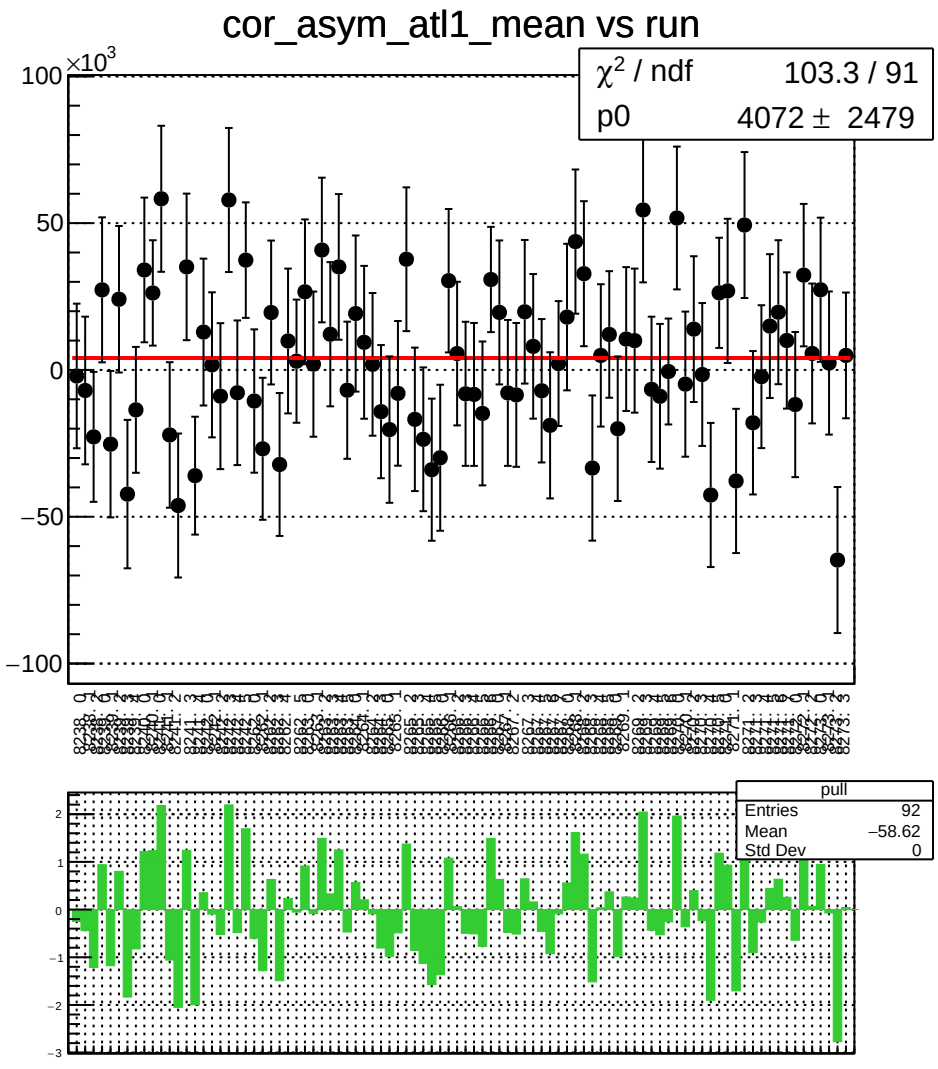

pull1D
Entries 92
Mean −0.01014
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

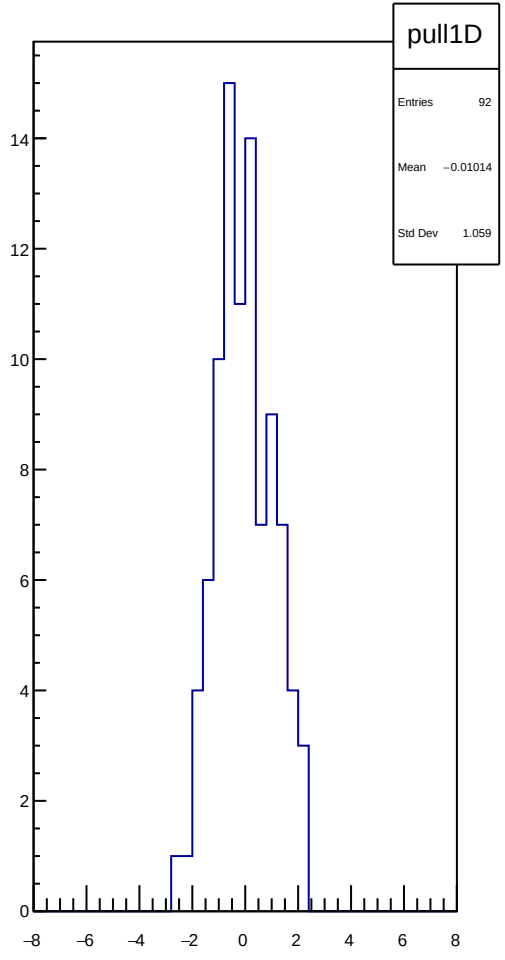

reg_asym_atl1_rms vs run
χ² / ndf 284.8 / 91
p0 2341 ± 1.753
2550
2500
2450
2400
2350
2300

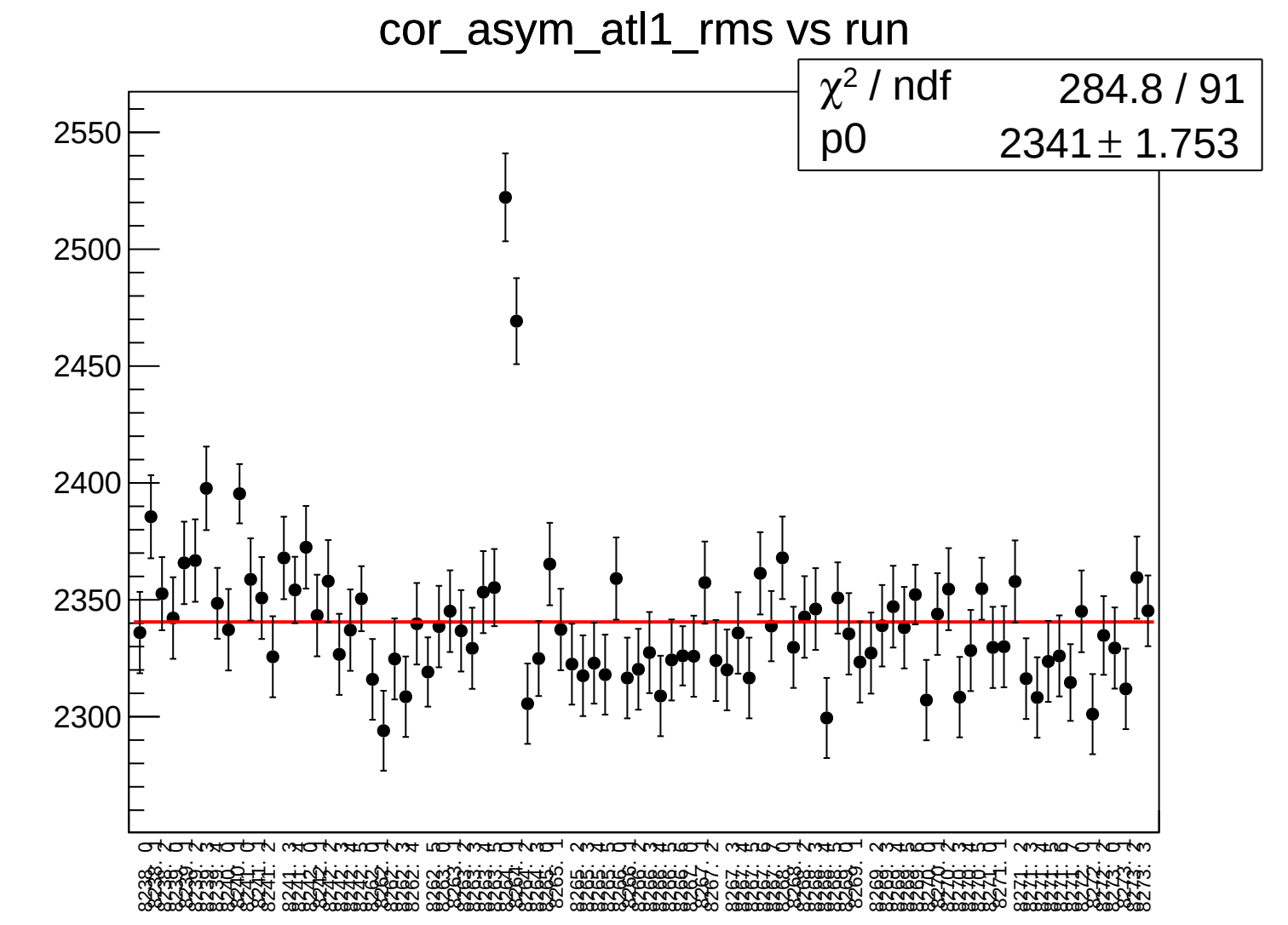

asym_atl1_reg_correction_mean vs run
χ² / ndf 68.29 / 91
p0 3132 ± 983.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 1238
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

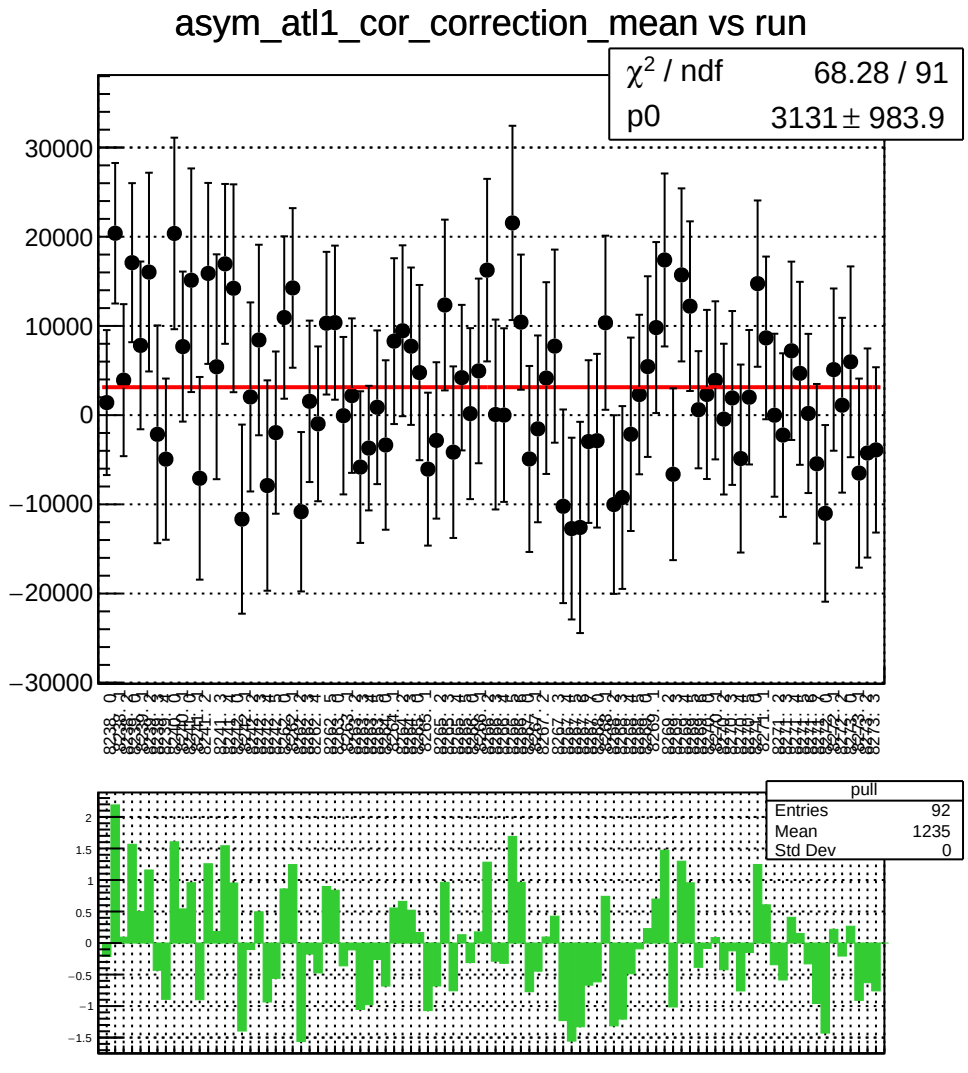

pull1D
Entries 92
Mean −0.004714
Std Dev 0.8615
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

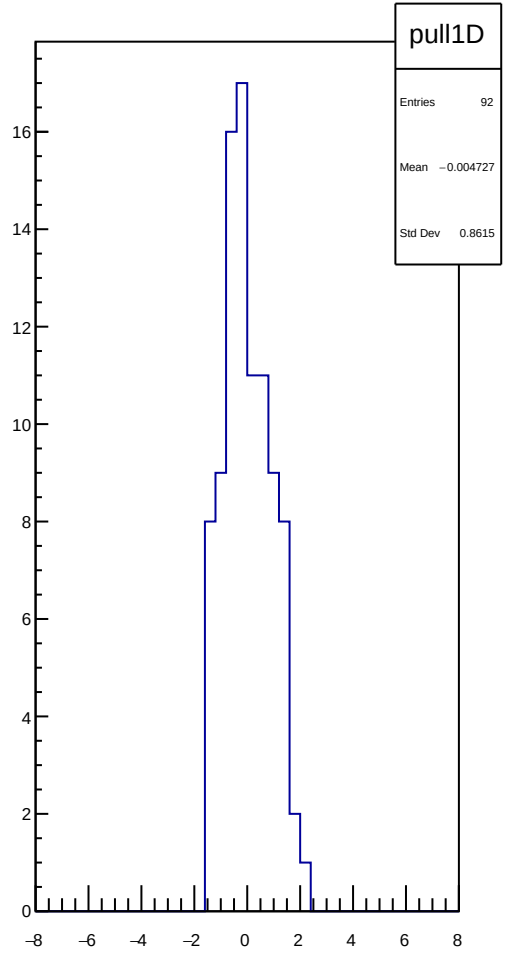

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.995e+04 / 91
p0 923.8 ± 0.6958
1200
1100
1000
900
800
700

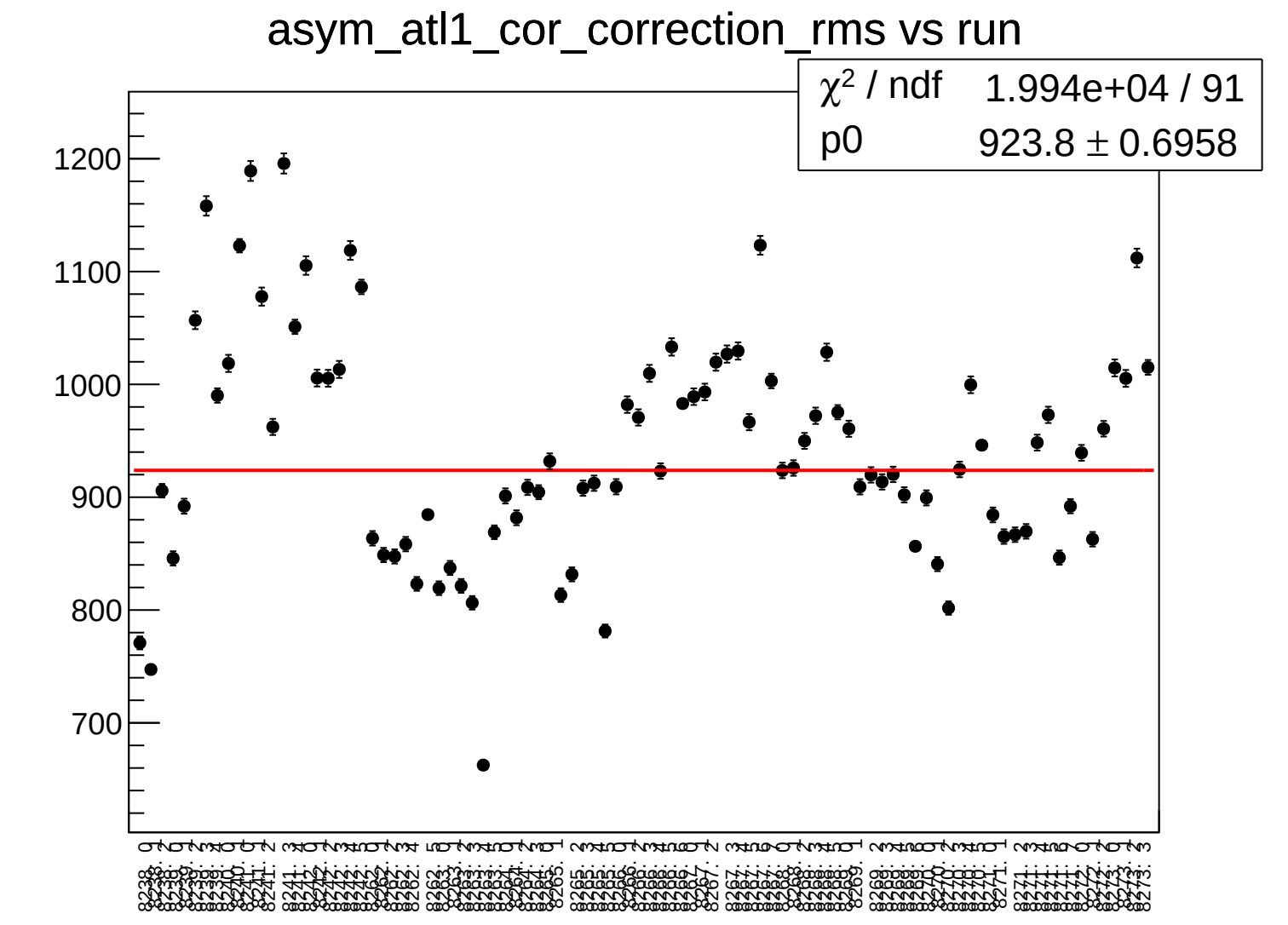

cor_asym_atl1_mean vs run
χ² / ndf 103.3 / 91
p0 4072 ± 2479
×10³
100
50
0
−50
−100
pull
Entries 92
Mean −58.62
Std Dev 0
2
1
0
−1
−2
−3

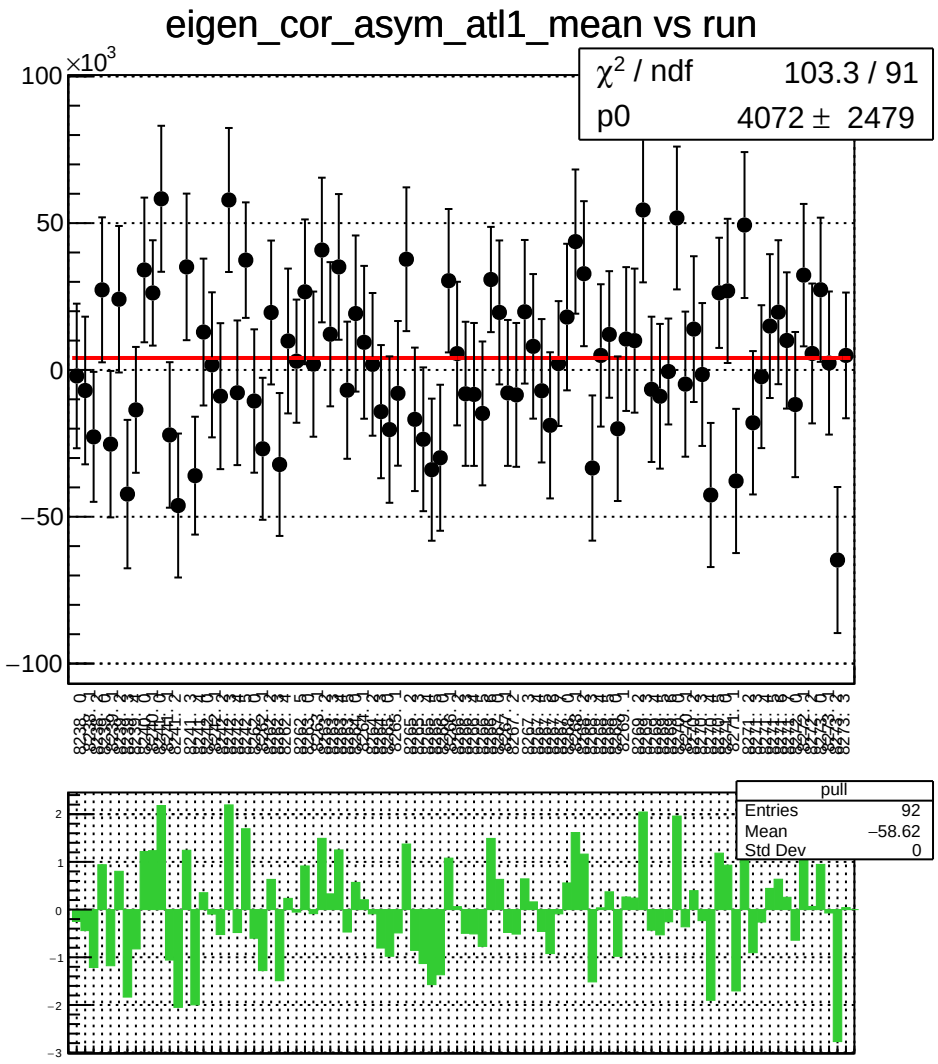

pull1D
Entries 92
Mean −0.01014
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

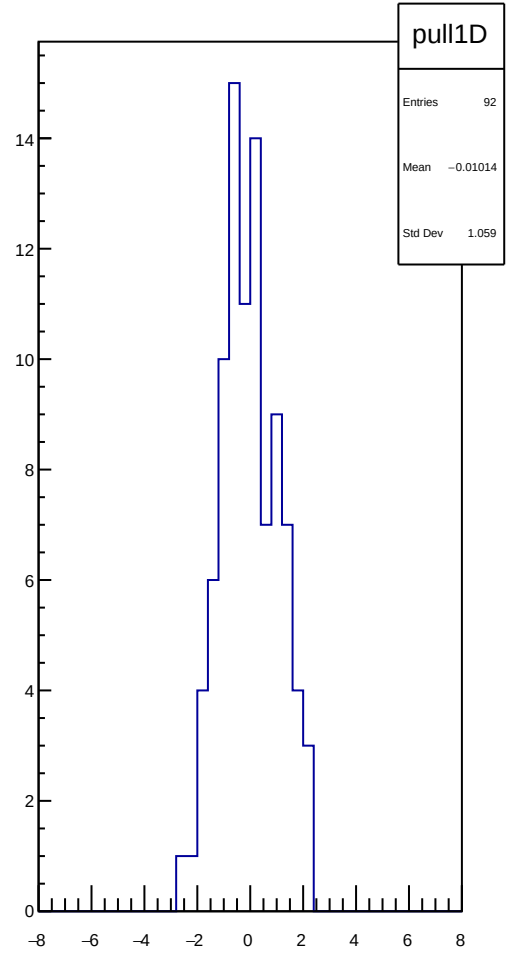

cor_asym_atl1_rms vs run
$\chi^2$ / ndf 284.8 / 91
p0 2341 ± 1.753
2550
2500
2450
2400
2350
2300

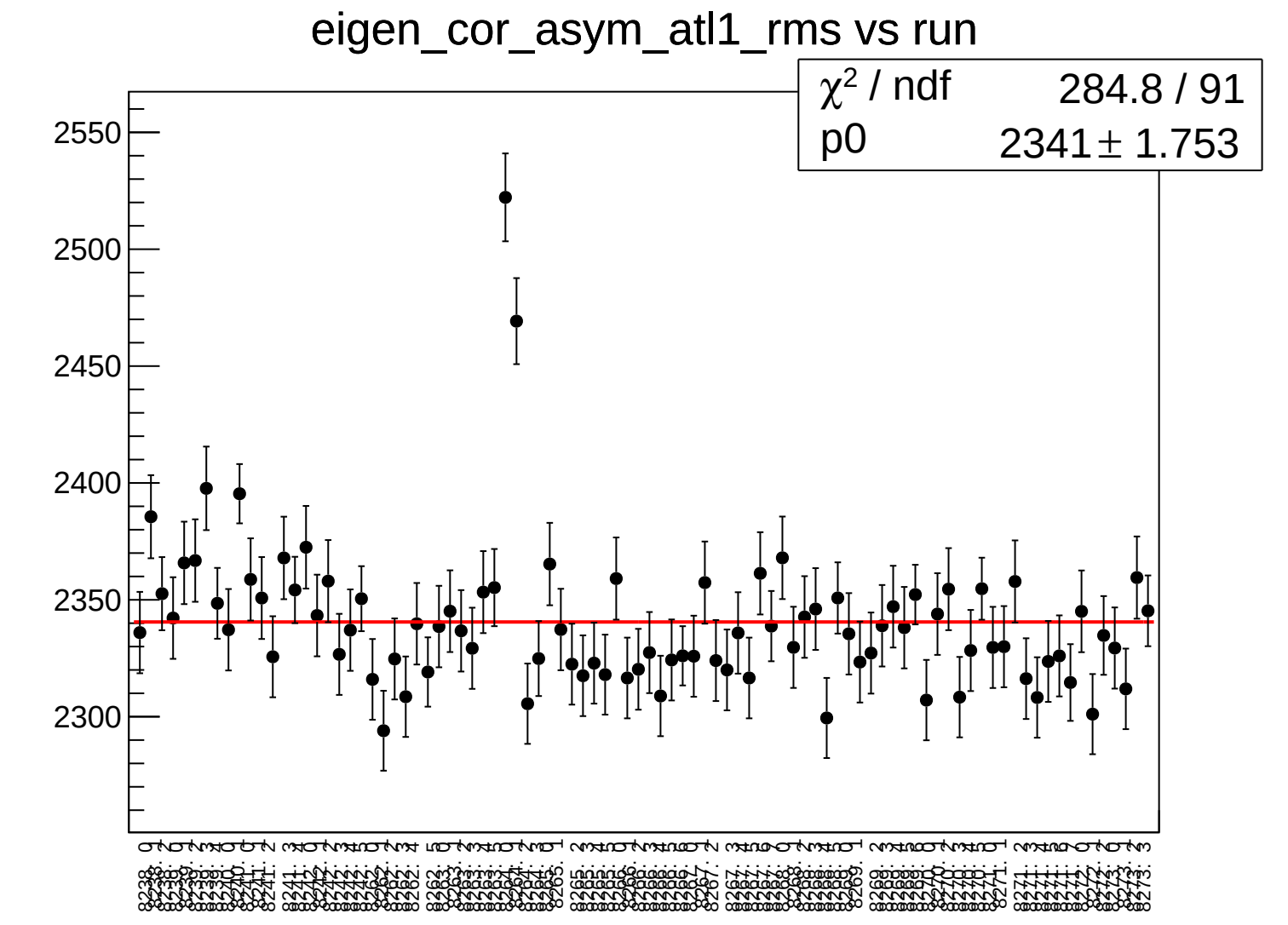

asym_atl1_cor_correction_mean vs run
χ² / ndf 68.28 / 91
p0 3131 ± 983.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 1235
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

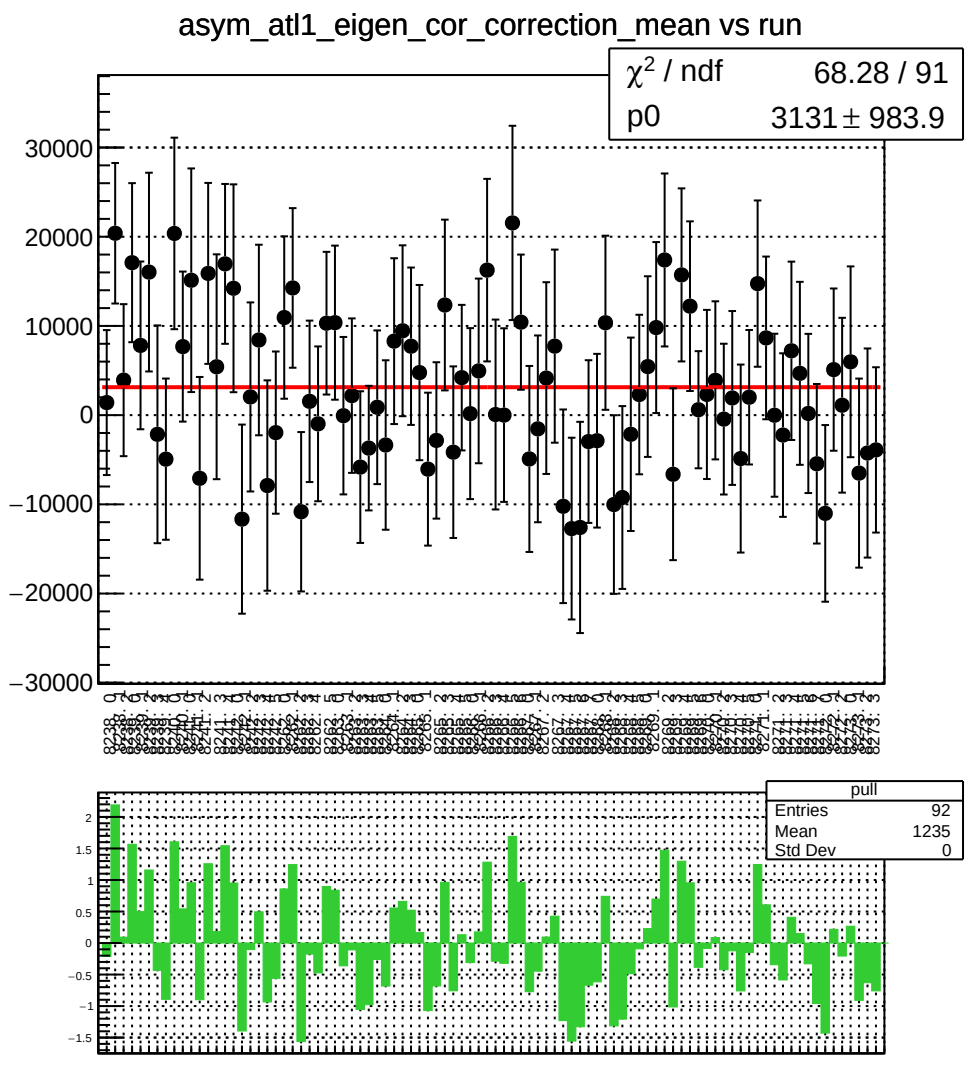

pull1D
Entries 92
Mean −0.004727
Std Dev 0.8615
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

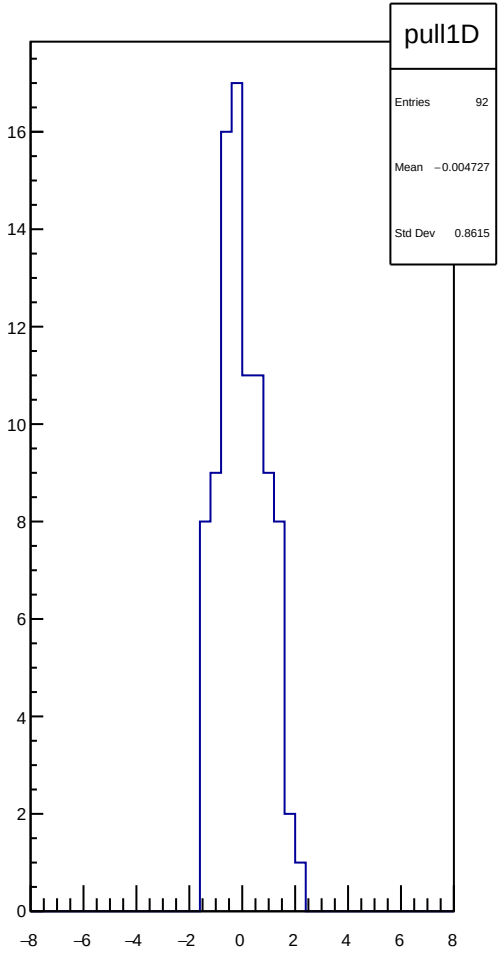

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.994e+04 / 91
p0 923.8 ± 0.6958
1200
1100
1000
900
800
700

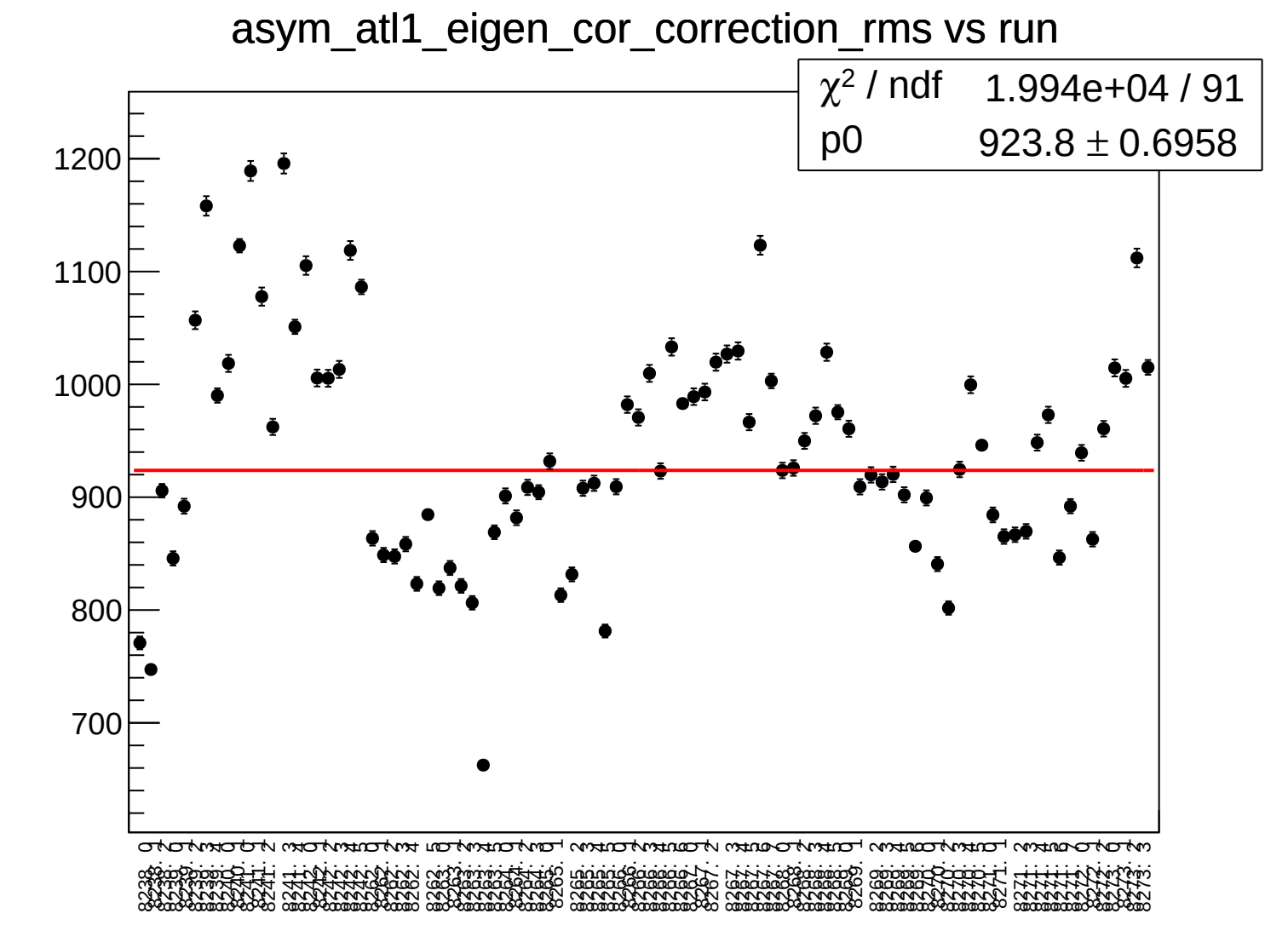

eigen_cor_asym_atl1_mean vs run
χ² / ndf 103.3 / 91
p0 4072 ± 2479
×10³
100
50
0
−50
−100
pull
Entries 92
Mean −58.62
Std Dev 0
2
1
0
−1
−2
−3

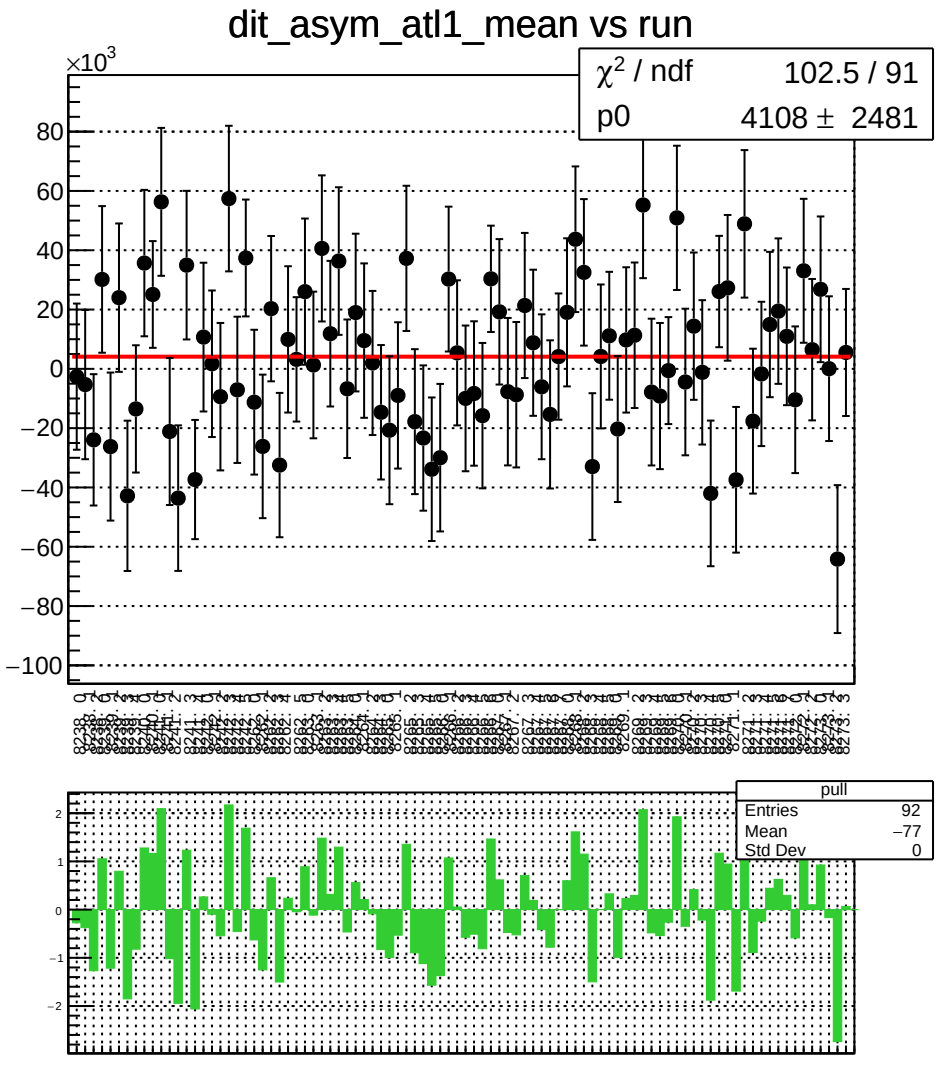

pull1D
Entries 92
Mean −0.01014
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

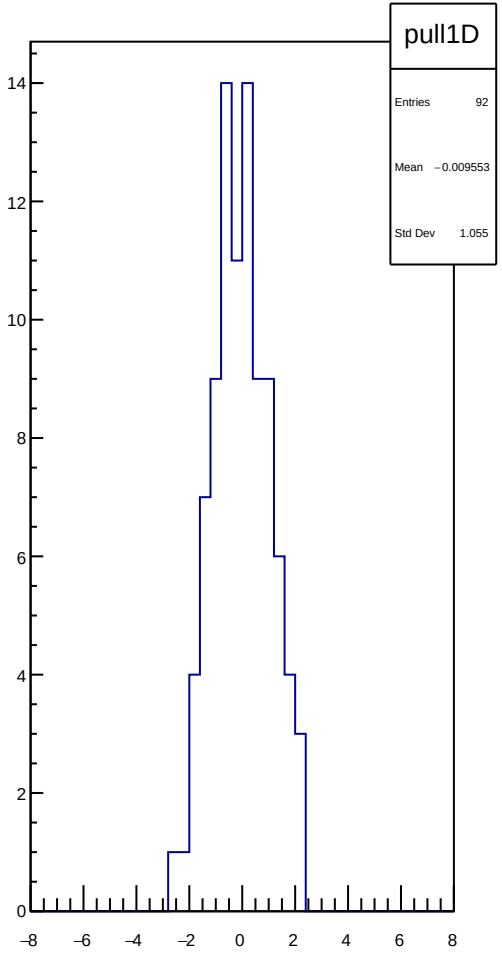

eigen_cor_asym_atl1_rms vs run
$\chi^2$ / ndf 284.8 / 91
p0 2341 ± 1.753
2550
2500
2450
2400
2350
2300

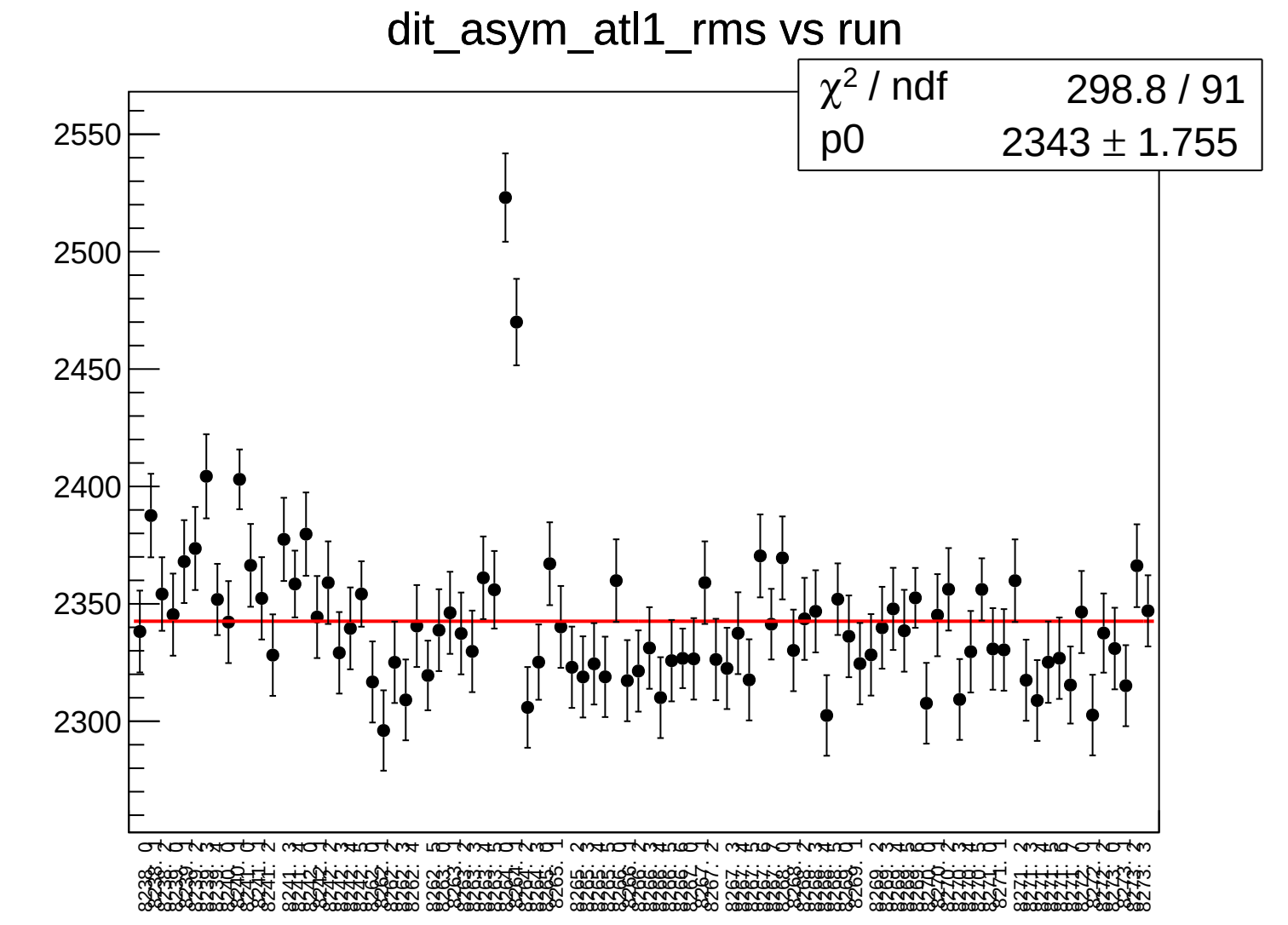

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 68.28 / 91
p0 3131 ± 983.9
pull
Entries 92
Mean 1235
Std Dev 0

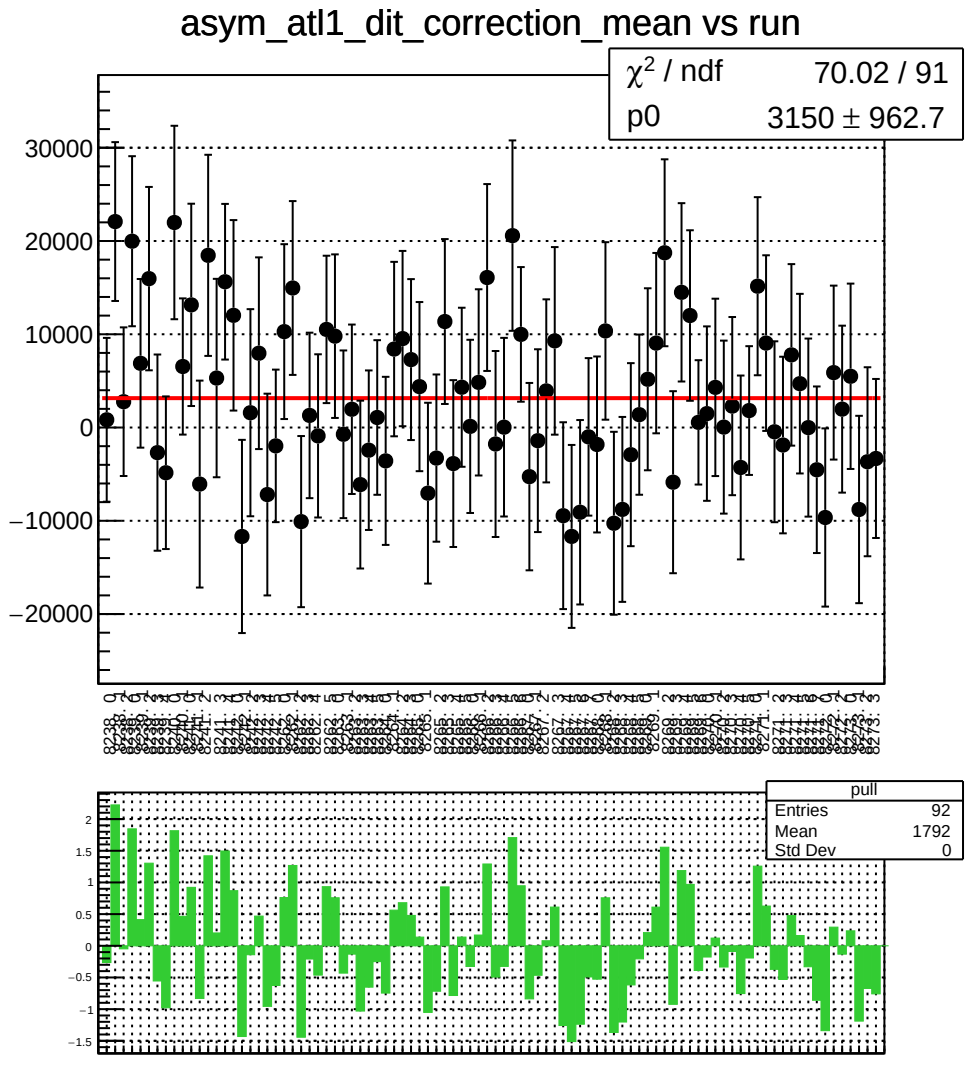

pull1D
Entries 92
Mean −0.004727
Std Dev 0.8615

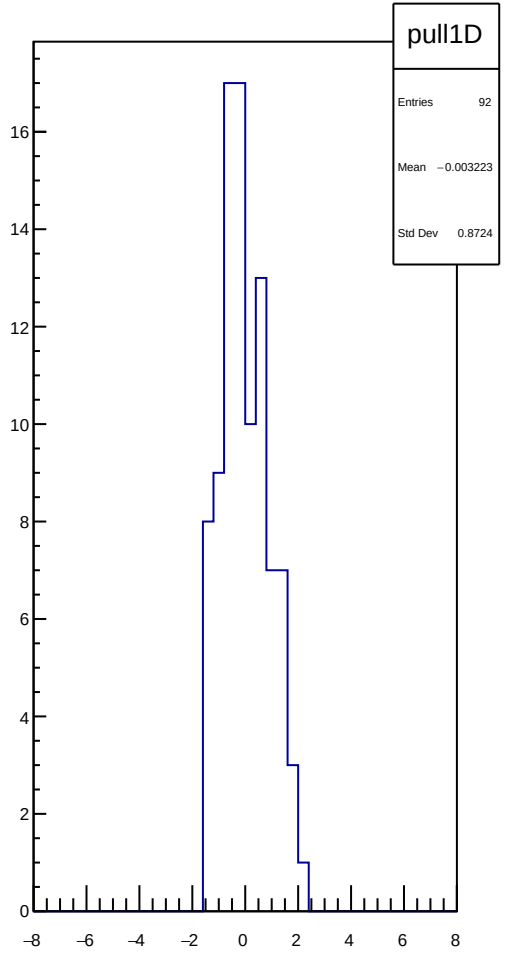

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.994e+04 / 91
p0 923.8 ± 0.6958
1200
1100
1000
900
800
700

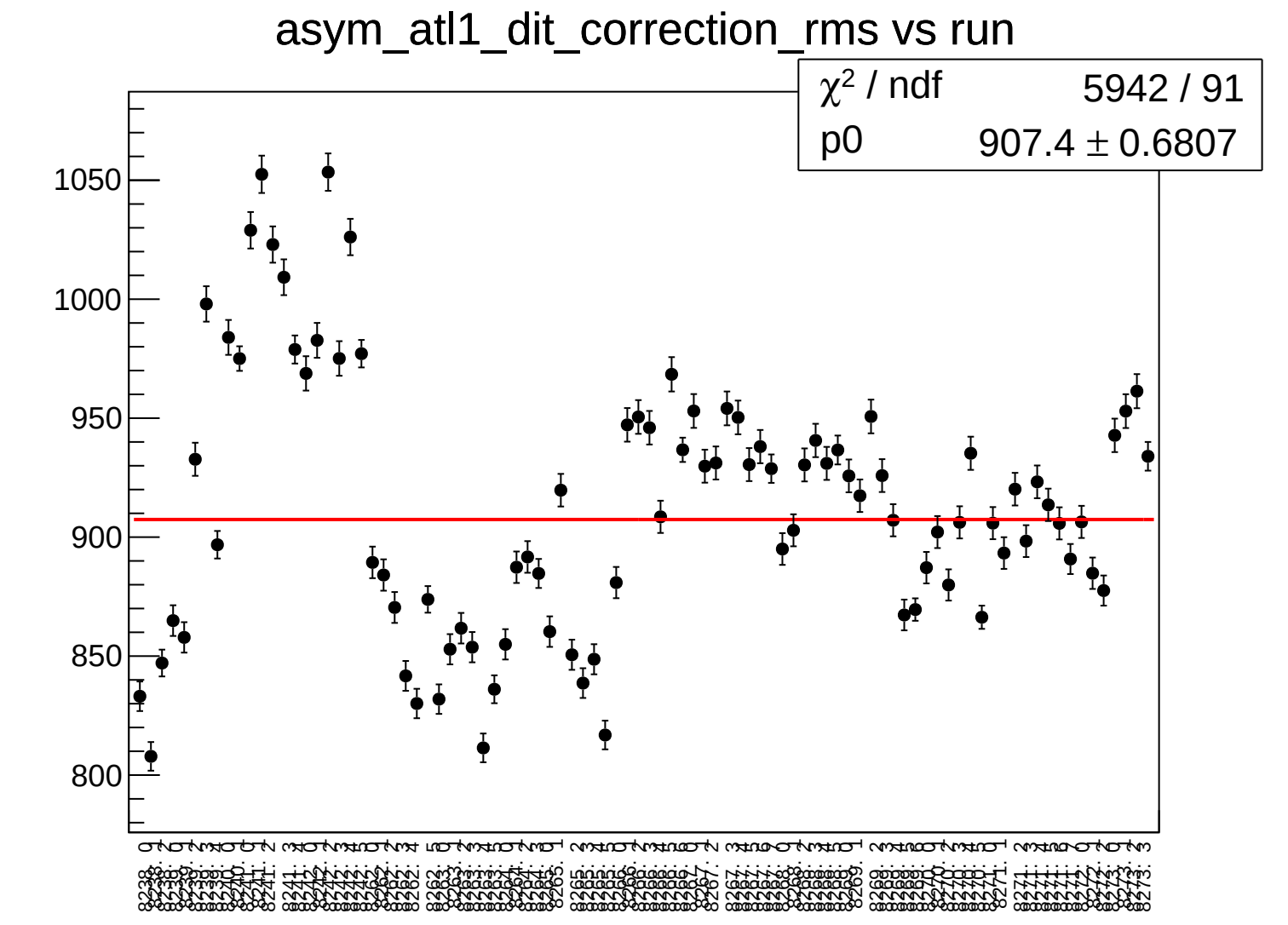

dit_asym_atl1_mean vs run
$\chi^2$ / ndf 102.5 / 91
p0 4108 ± 2481
×10^3
pull
Entries 92
Mean −77
Std Dev 0

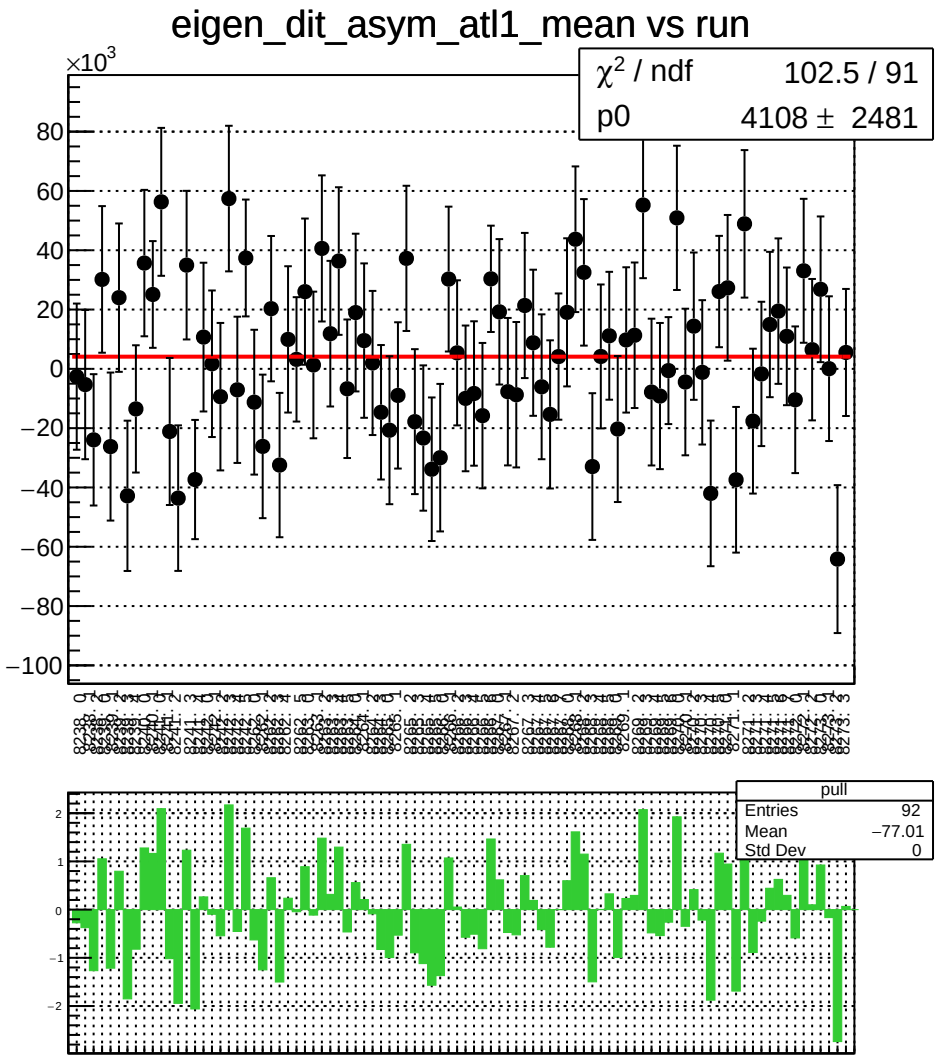

pull1D
Entries 92
Mean −0.009553
Std Dev 1.055

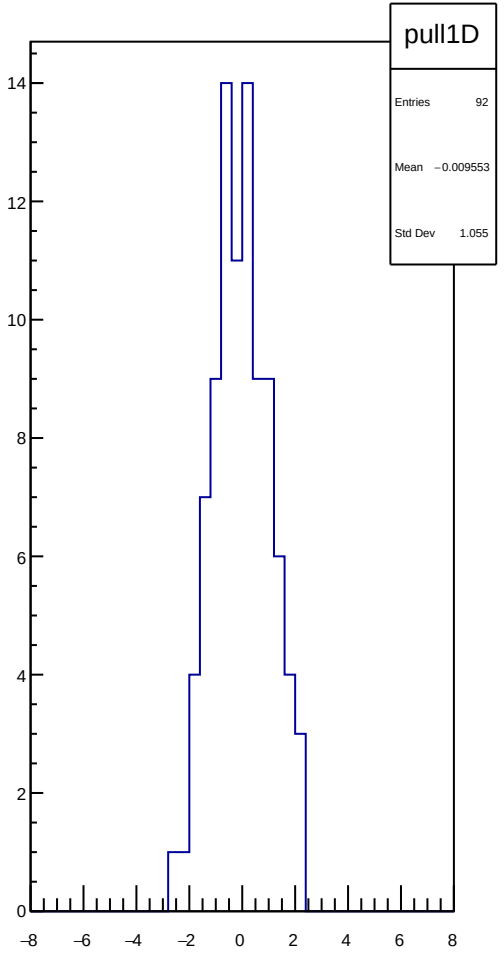

dit_asym_atl1_rms vs run
$\chi^2$ / ndf 298.8 / 91
p0 2343 ± 1.755
2550
2500
2450
2400
2350
2300

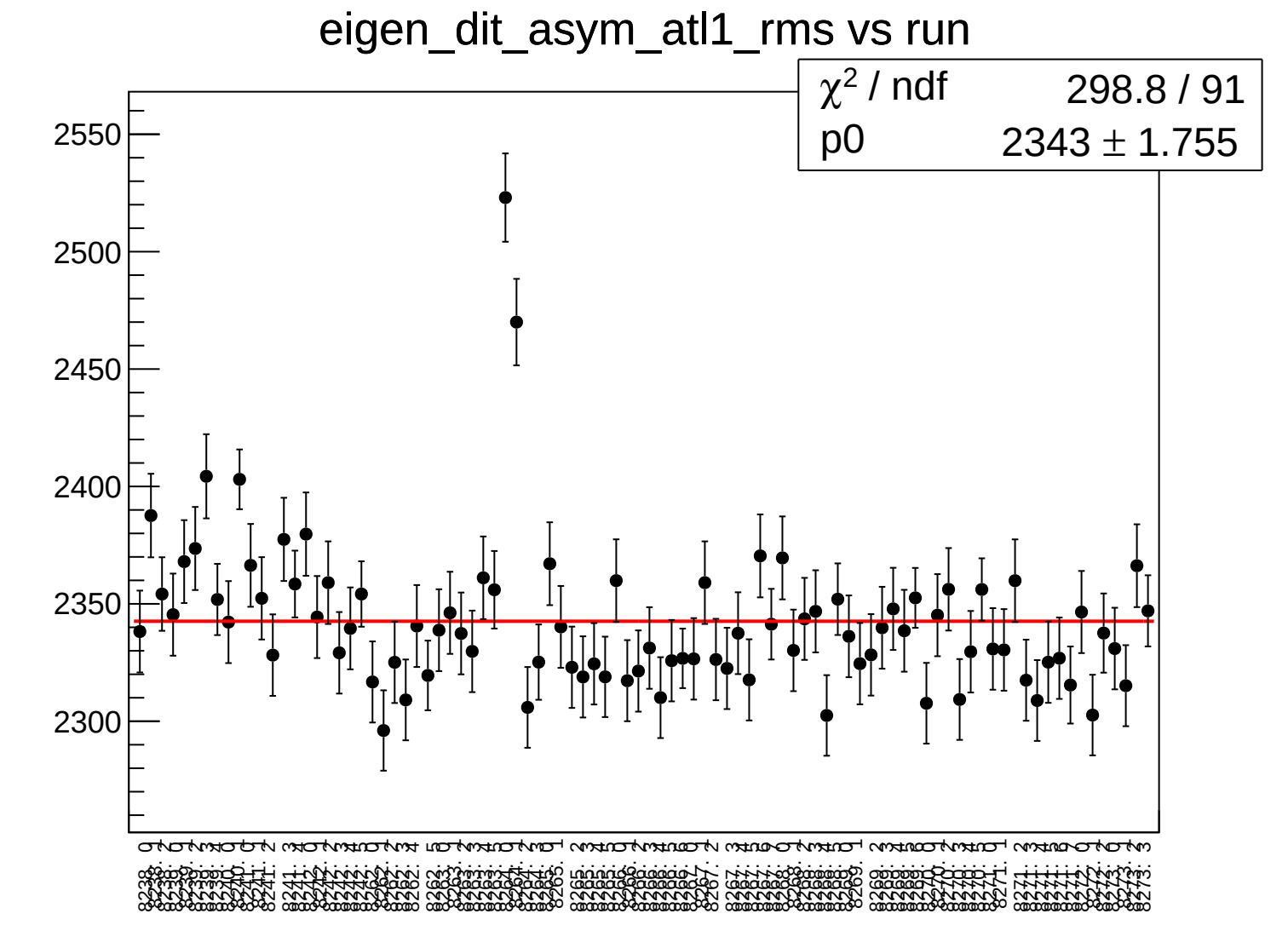

asym_atl1_dit_correction_mean vs run
χ² / ndf 70.02 / 91
p0 3150 ± 962.7
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 1792
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

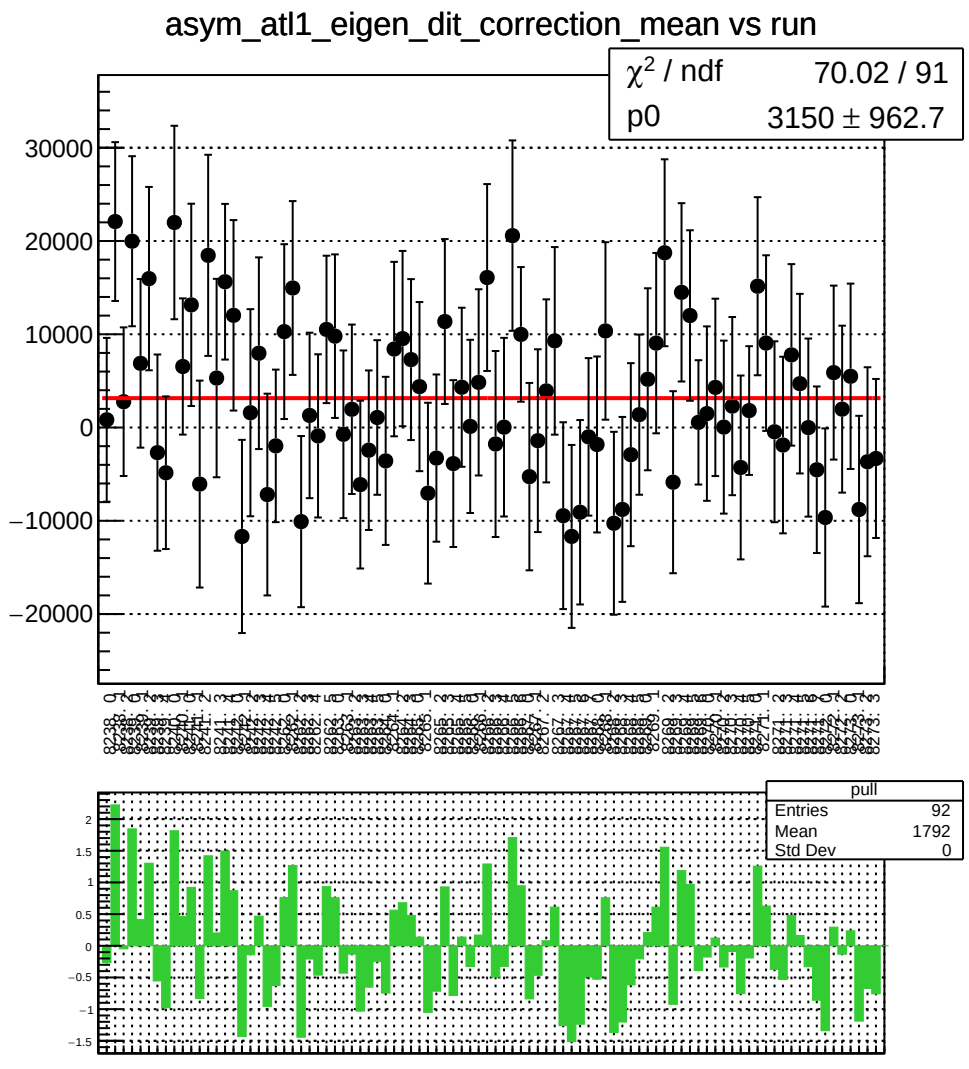

pull1D
Entries 92
Mean −0.003223
Std Dev 0.8724
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

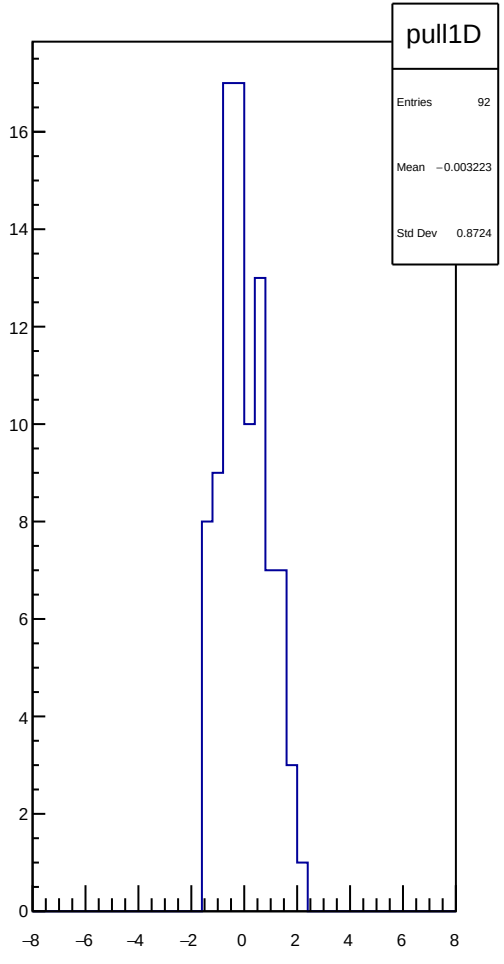

asym_atl1_dit_correction_rms vs run
χ² / ndf 5942 / 91
p0 907.4 ± 0.6807
1050
1000
950
900
850
800

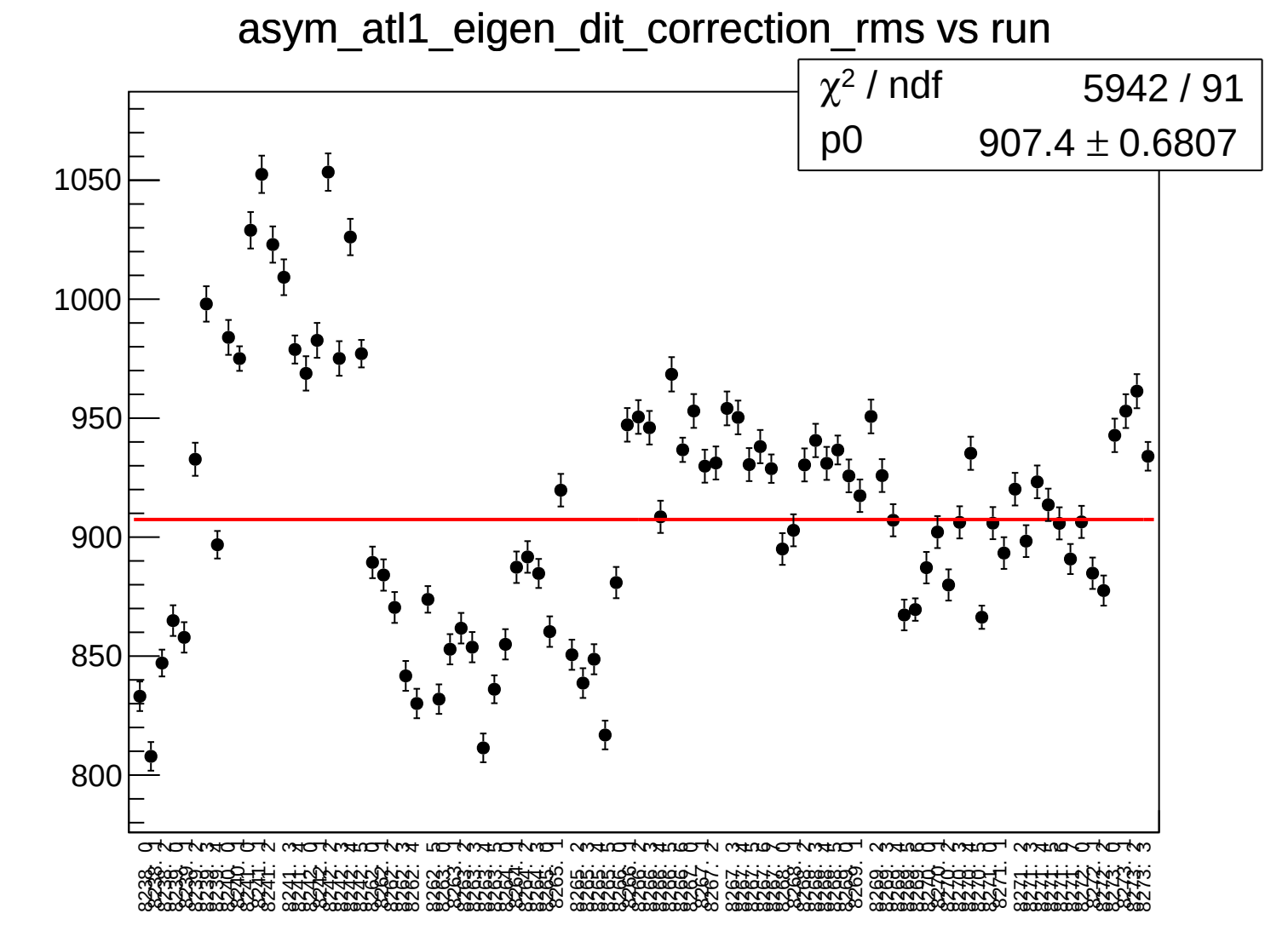

eigen_dit_asym_atl1_mean vs run
χ² / ndf 102.5 / 91
p0 4108 ± 2481
×10³
pull
Entries 92
Mean −77.01
Std Dev 0

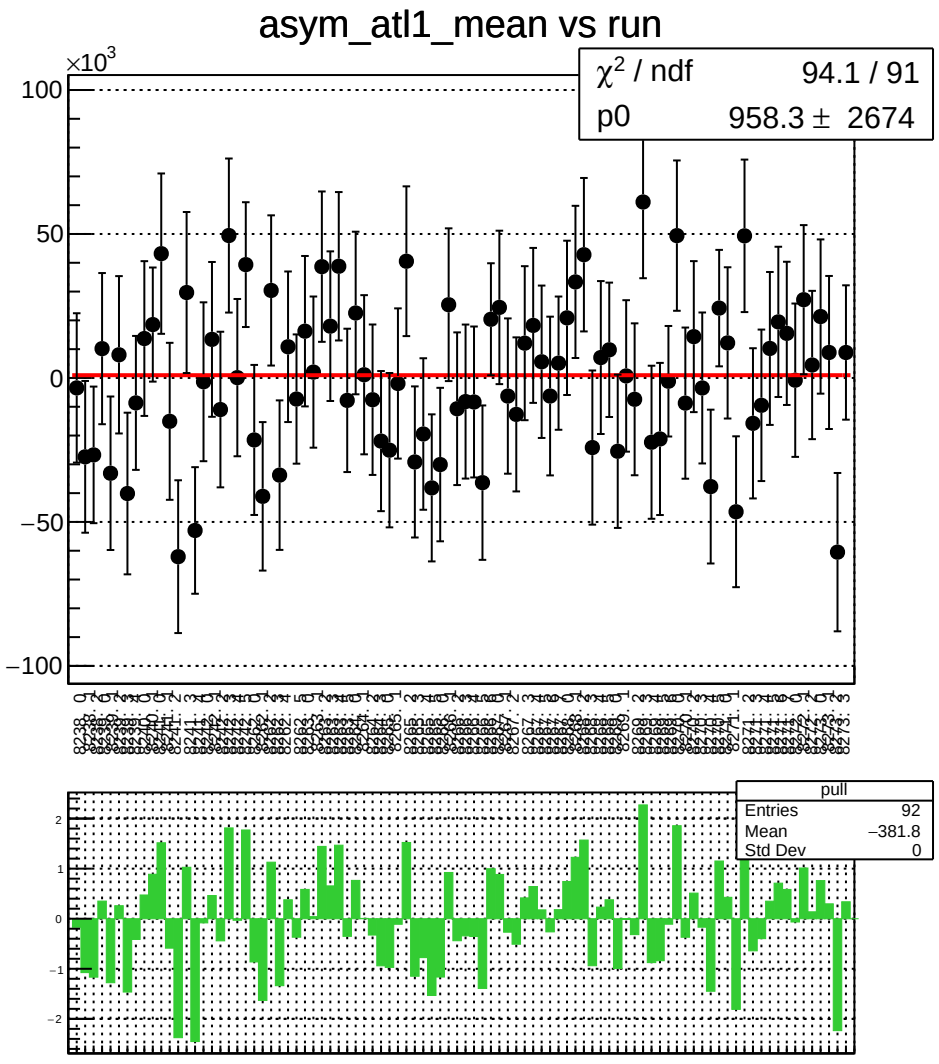

pull1D
Entries 92
Mean −0.009553
Std Dev 1.055

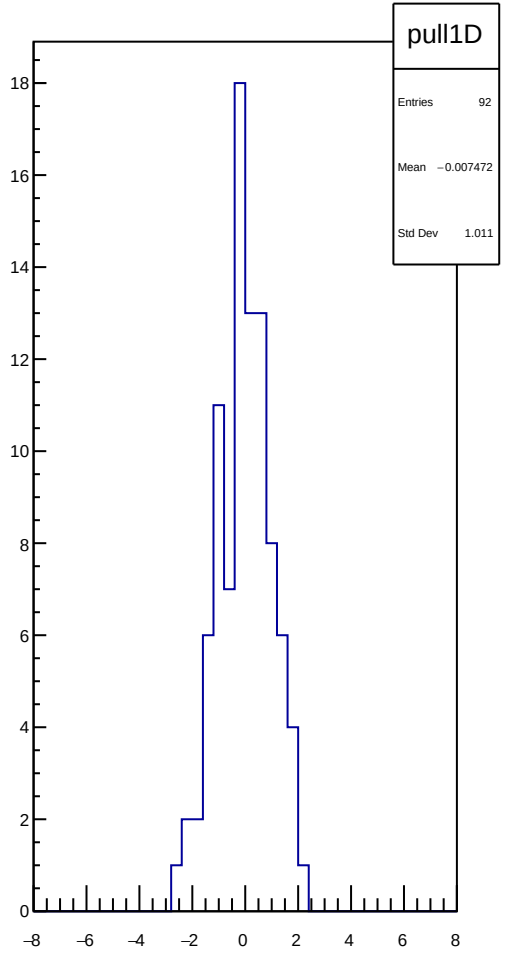

eigen_dit_asym_atl1_rms vs run
$\chi^2$ / ndf 298.8 / 91
p0 2343 ± 1.755
2550
2500
2450
2400
2350
2300

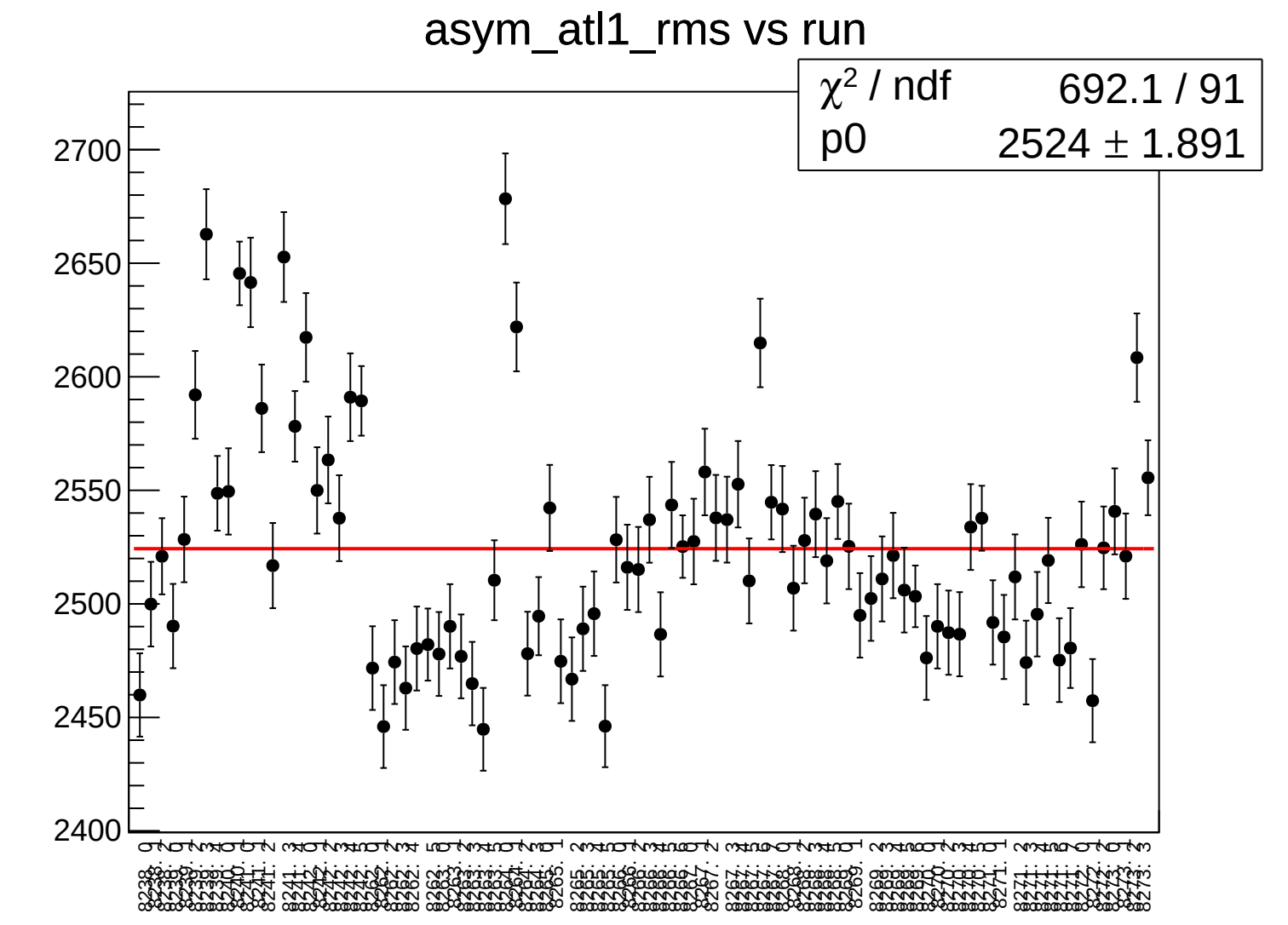

asym_atl1_eigen_dit_correction_mean vs run
$\chi^2$ / ndf 70.02 / 91
p0 3150 ± 962.7
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 1792
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

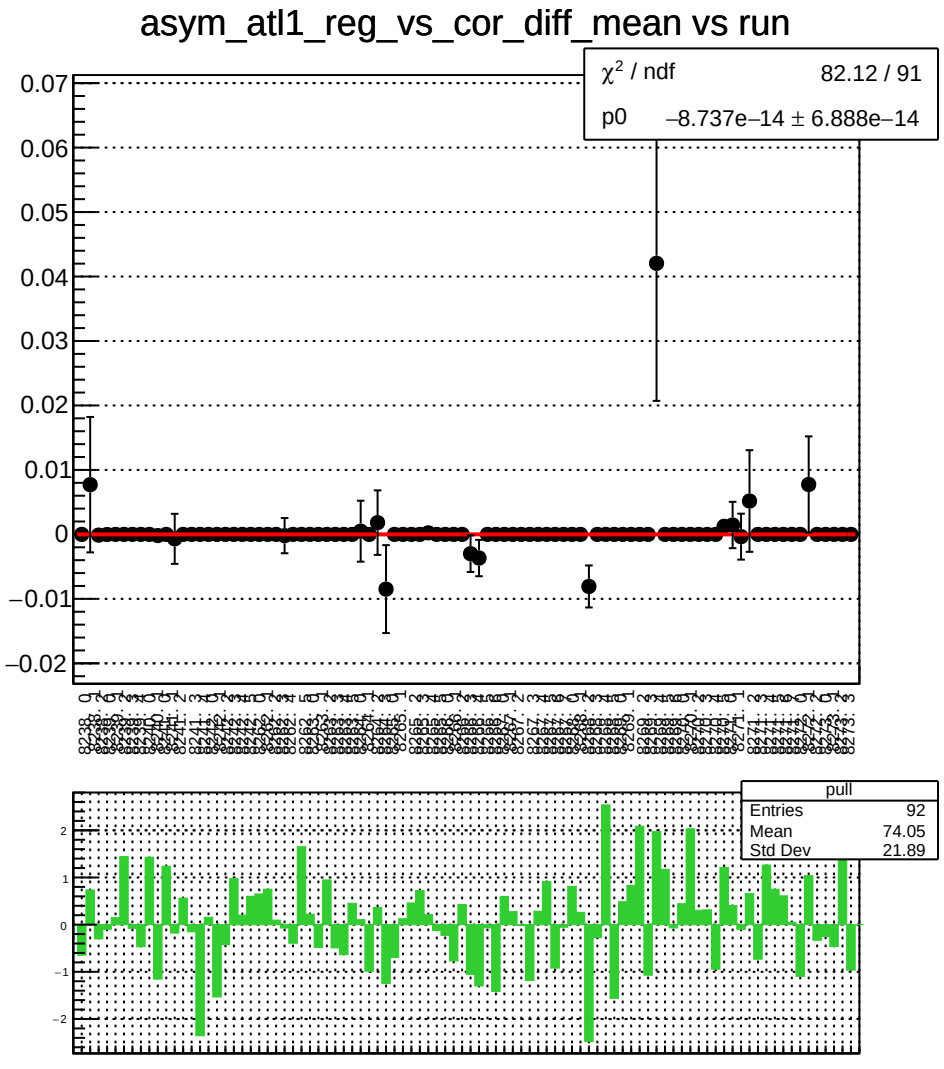

pull1D
Entries 92
Mean −0.003223
Std Dev 0.8724
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

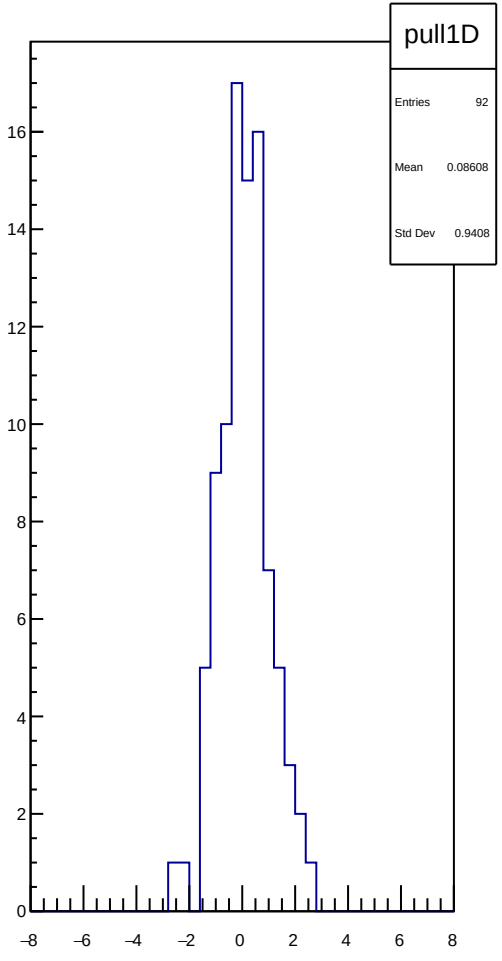

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 5942 / 91
p0 907.4 ± 0.6807
1050
1000
950
900
850
800

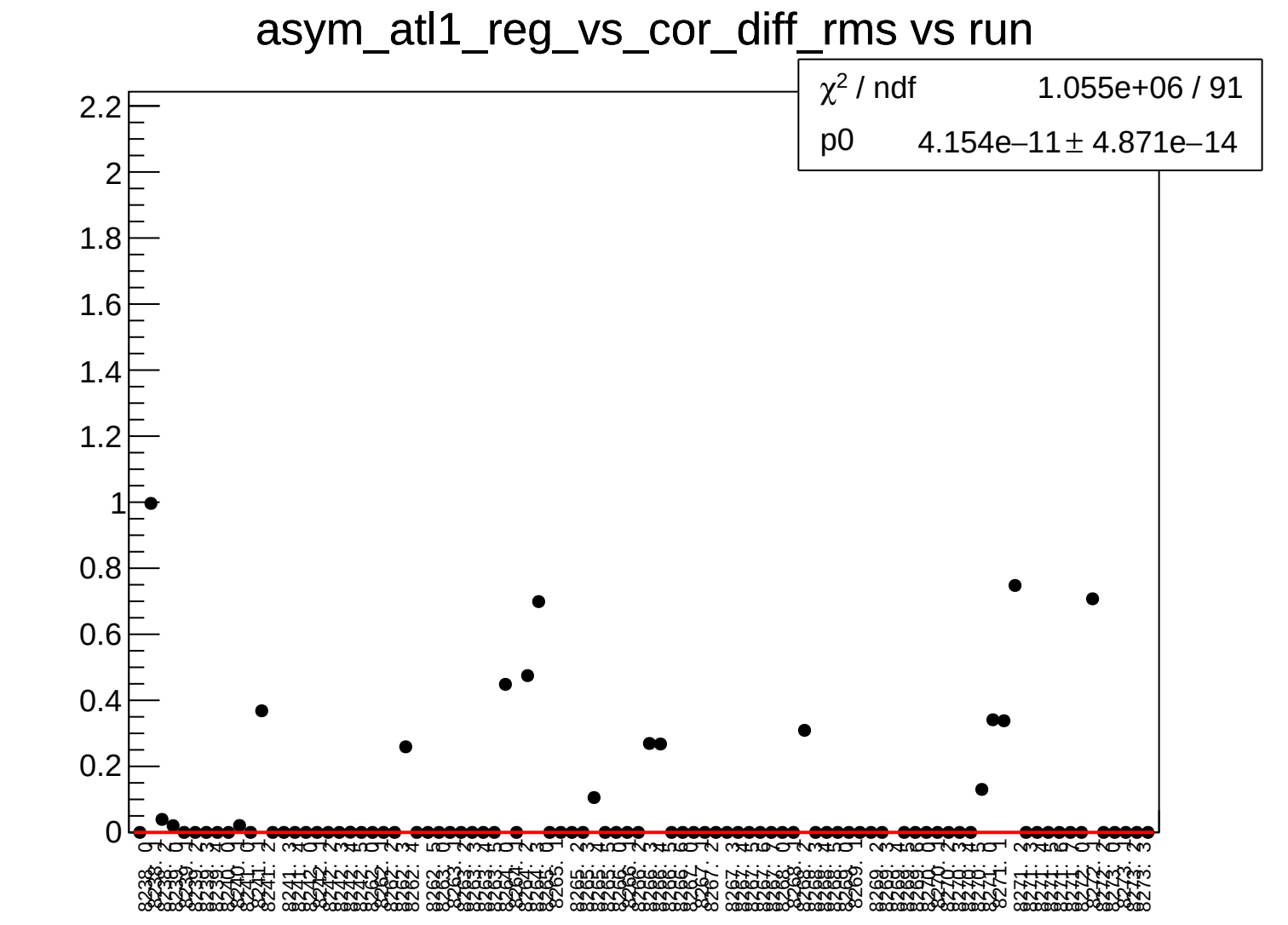

asym_atl1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 94.1 / 91
p0 958.3 ± 2674
pull
Entries 92
Mean −381.8
Std Dev 0
2
1
0
−1
−2

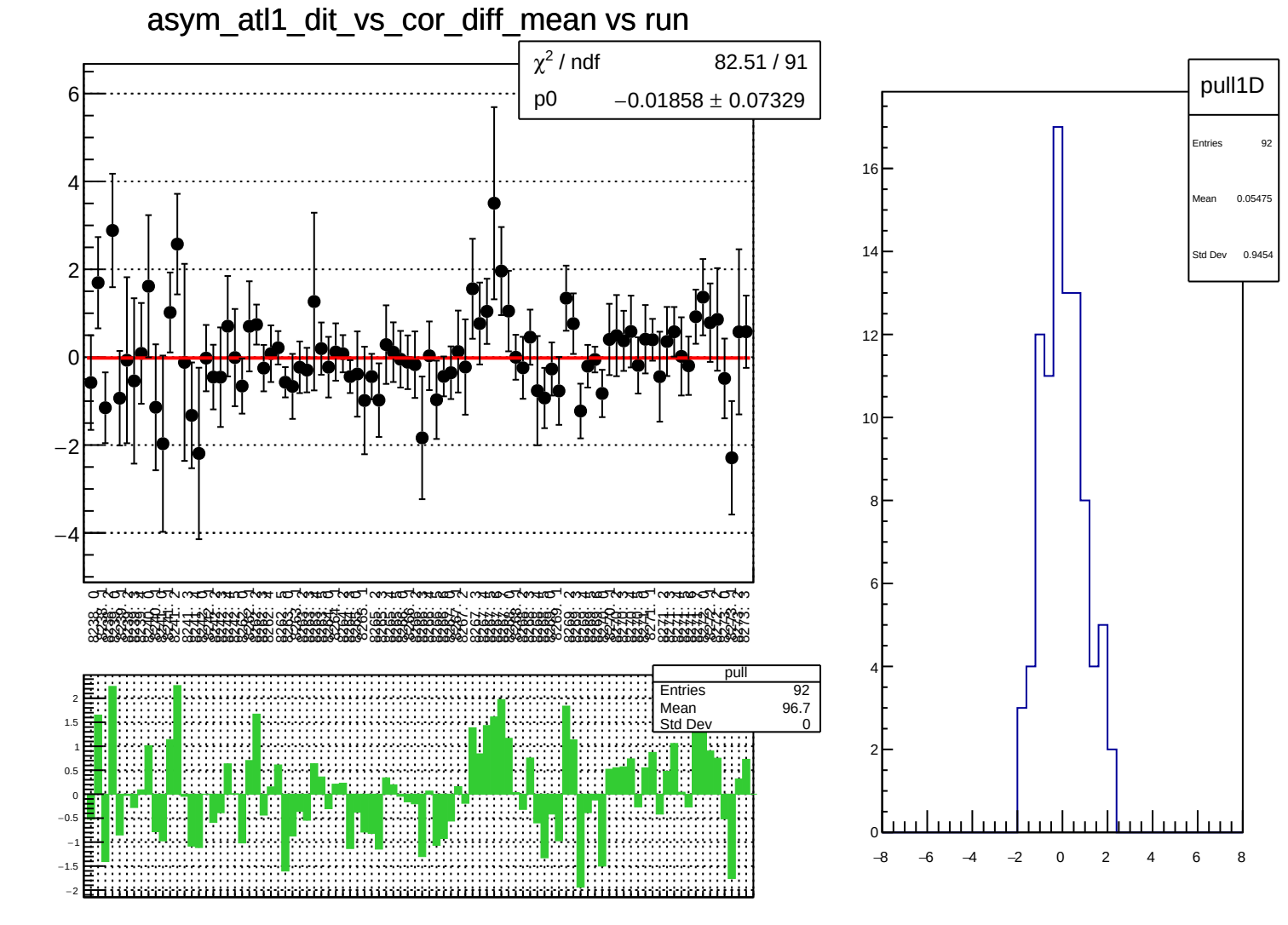

pull1D
Entries 92
Mean −0.007472
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

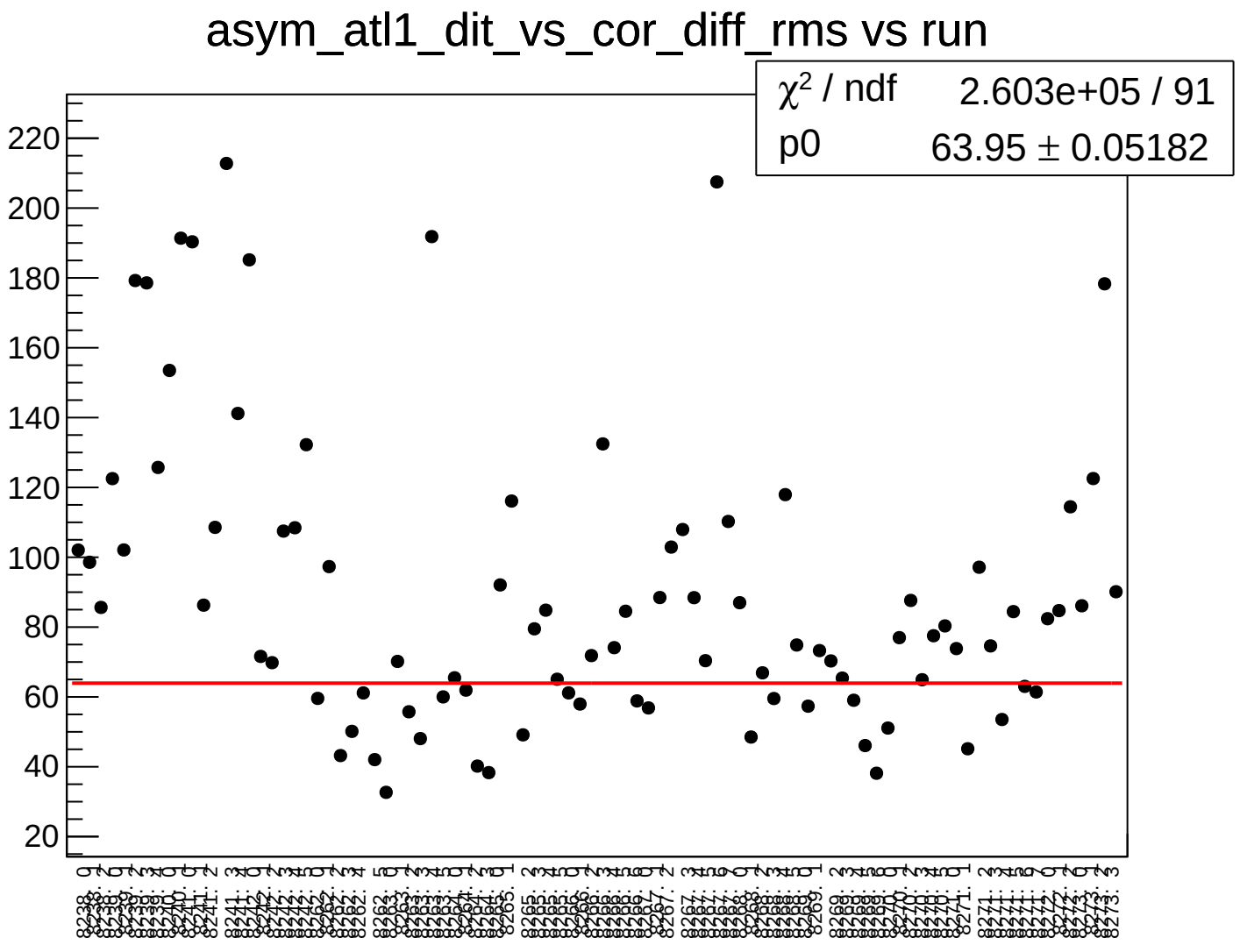

asym_atl1_rms vs run
$\chi^2$ / ndf 692.1 / 91
p0 2524 ± 1.891
2700
2650
2600
2550
2500
2450
2400

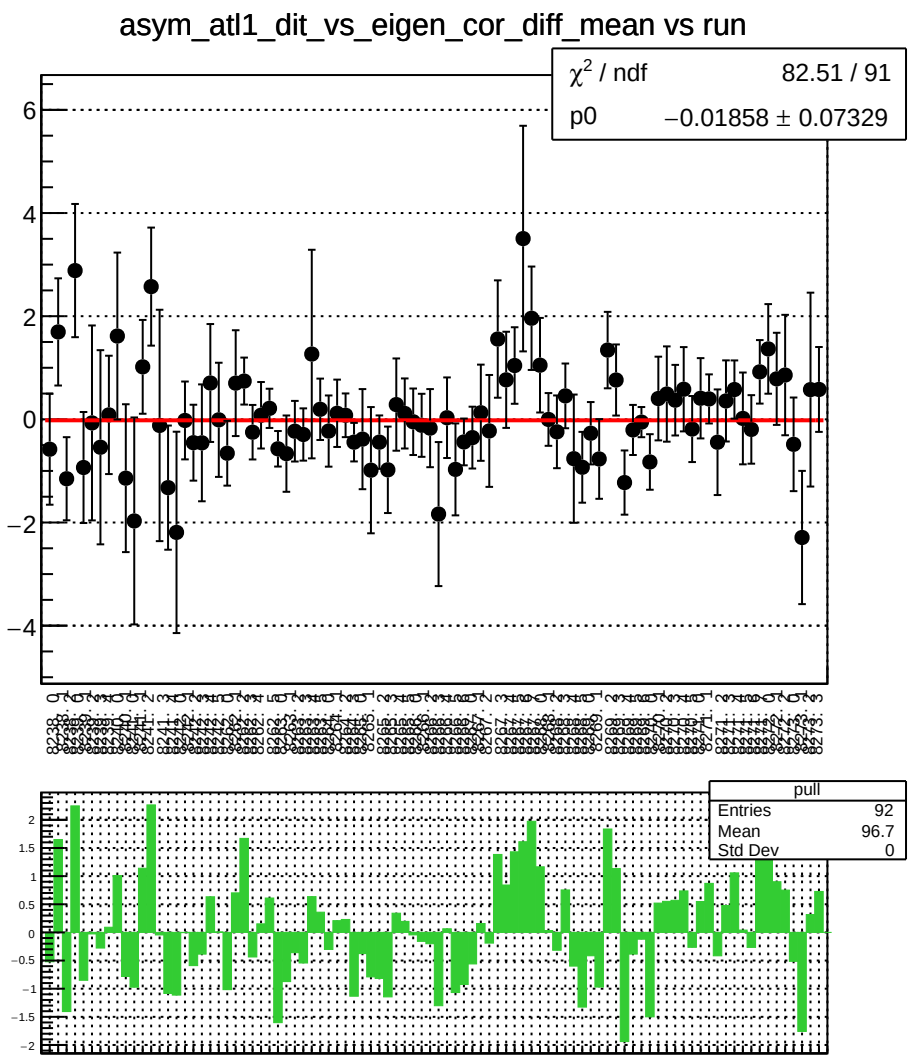

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 82.12 / 91
p0 −8.737e−14 ± 6.888e−14
pull
Entries 92
Mean 74.05
Std Dev 21.89

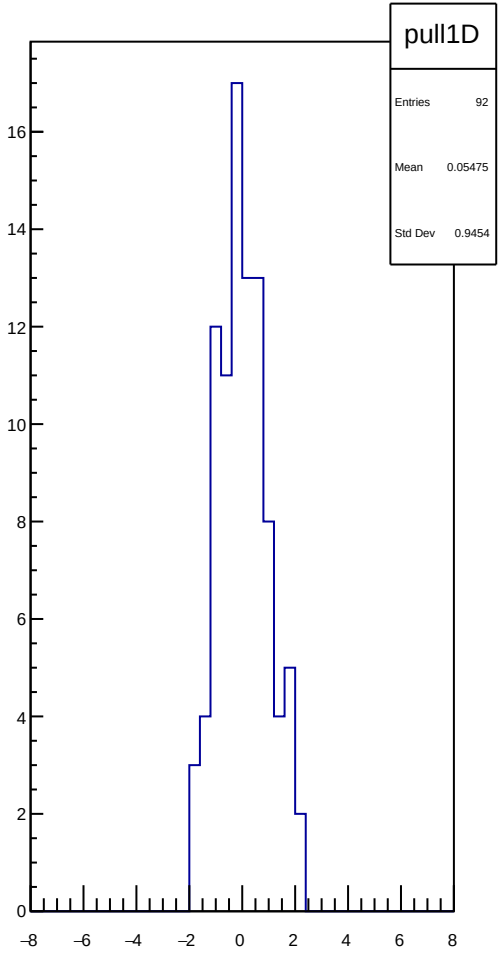

pull1D
Entries 92
Mean 0.08608
Std Dev 0.9408

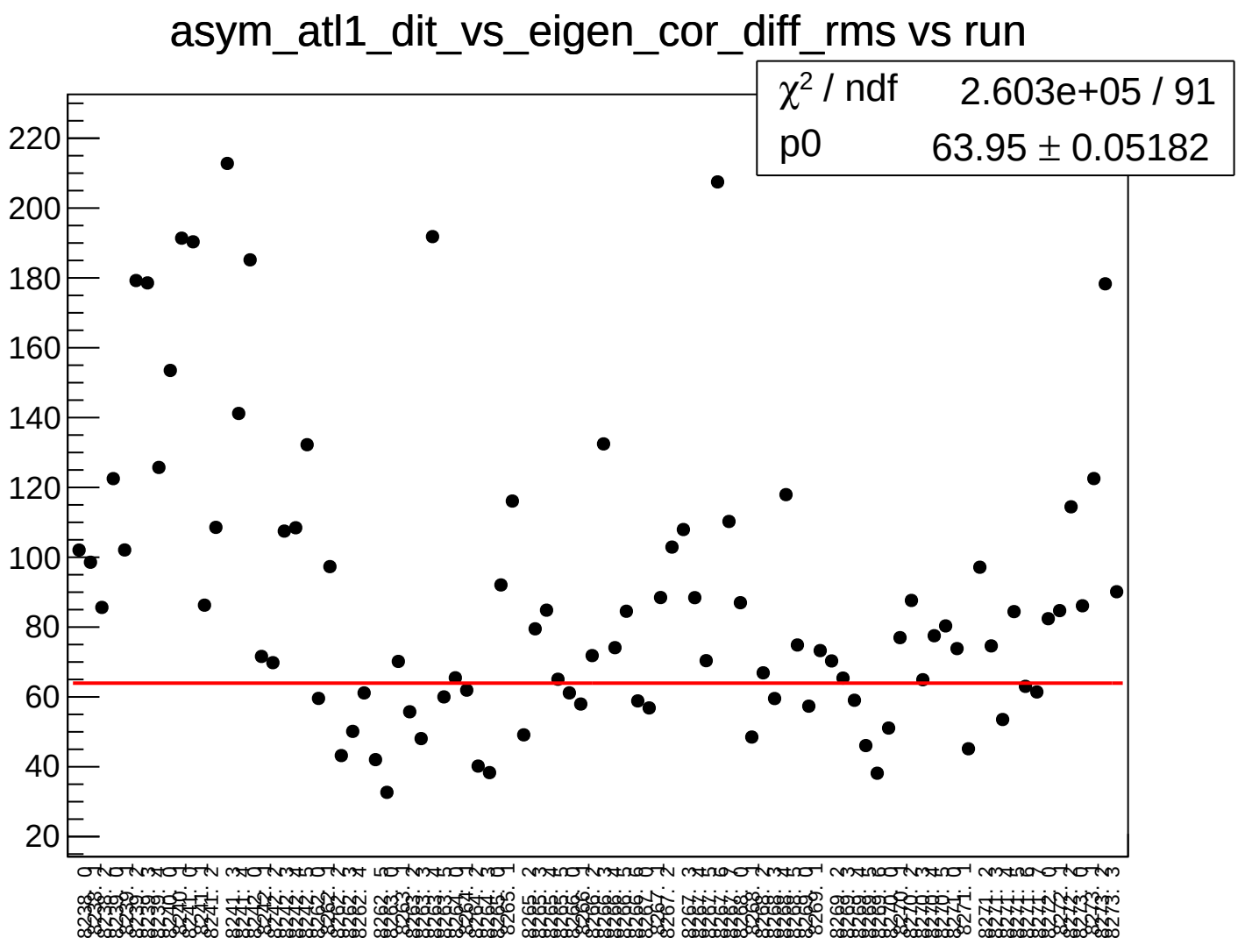

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.055e+06 / 91
p0 4.154e−11 ± 4.871e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

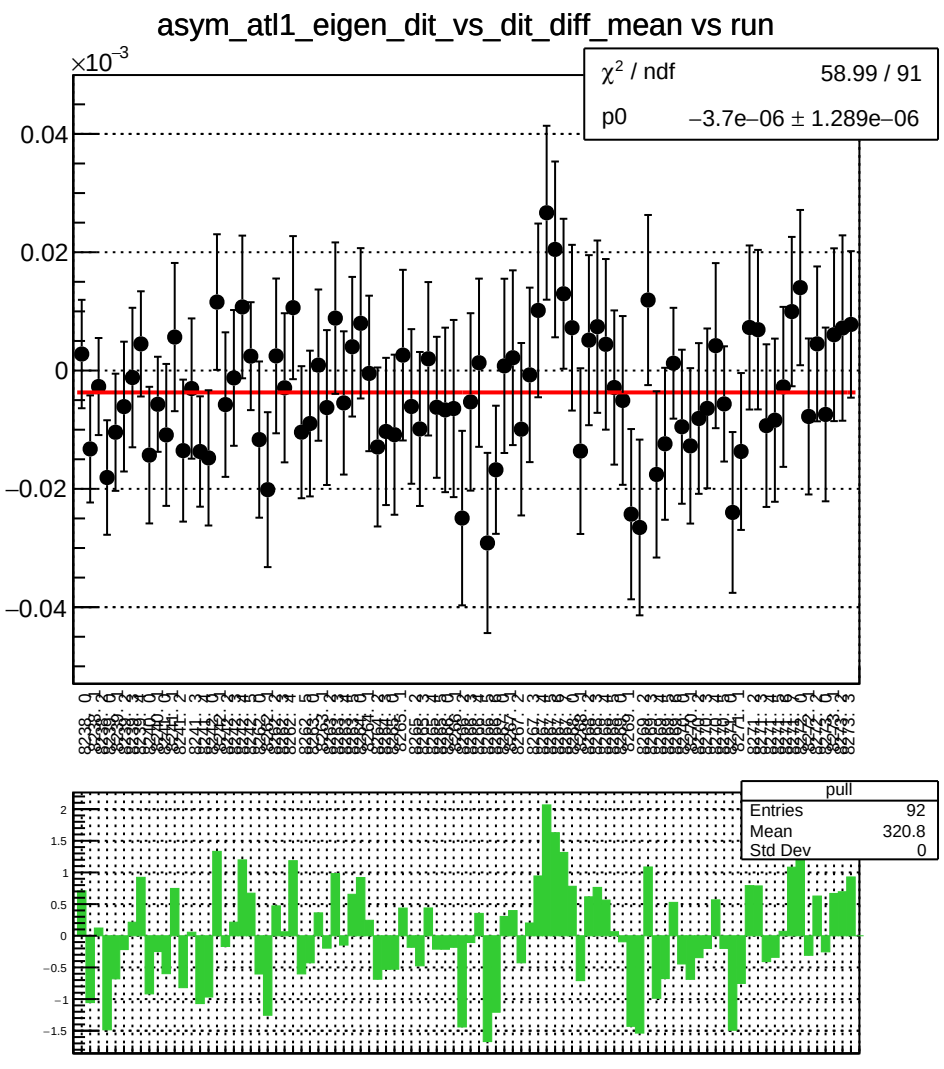

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 82.51 / 91
p0 −0.01858 ± 0.07329
pull
Entries 92
Mean 96.7
Std Dev 0
pull1D
Entries 92
Mean 0.05475
Std Dev 0.9454

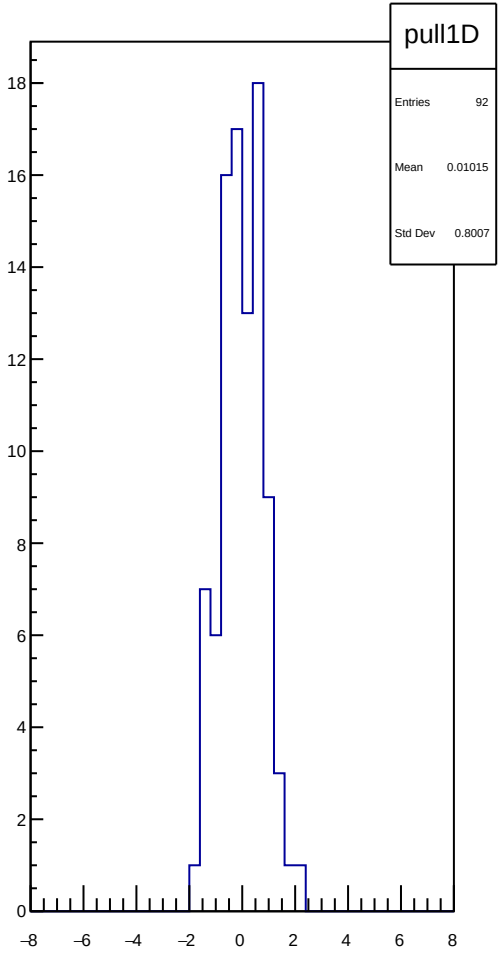

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.603e+05 / 91
p0 63.95 ± 0.05182
220
200
180
160
140
120
100
80
60
40
20

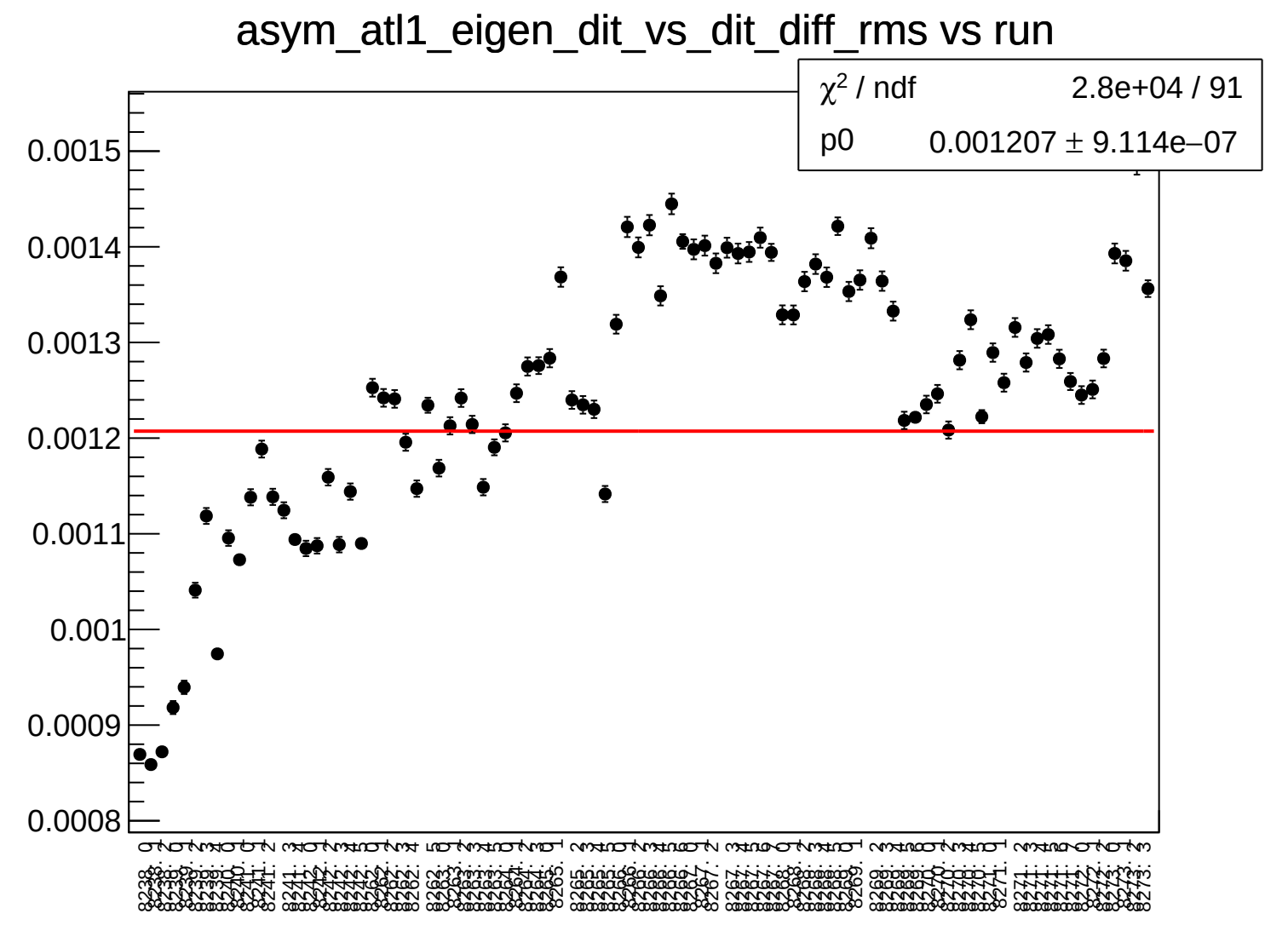

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.51 / 91
p0 −0.01858 ± 0.07329
pull
Entries 92
Mean 96.7
Std Dev 0

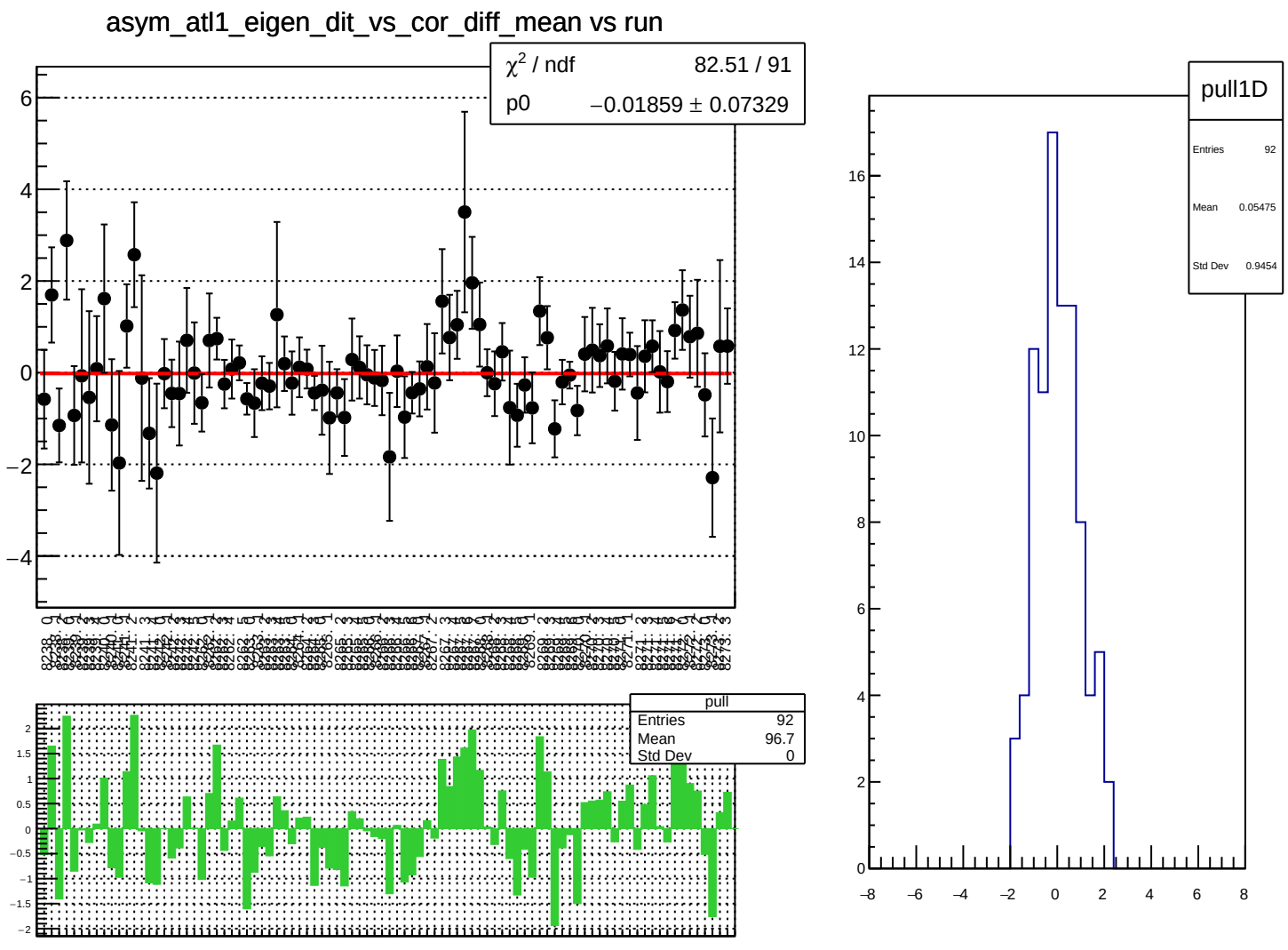

pull1D
Entries 92
Mean 0.05475
Std Dev 0.9454

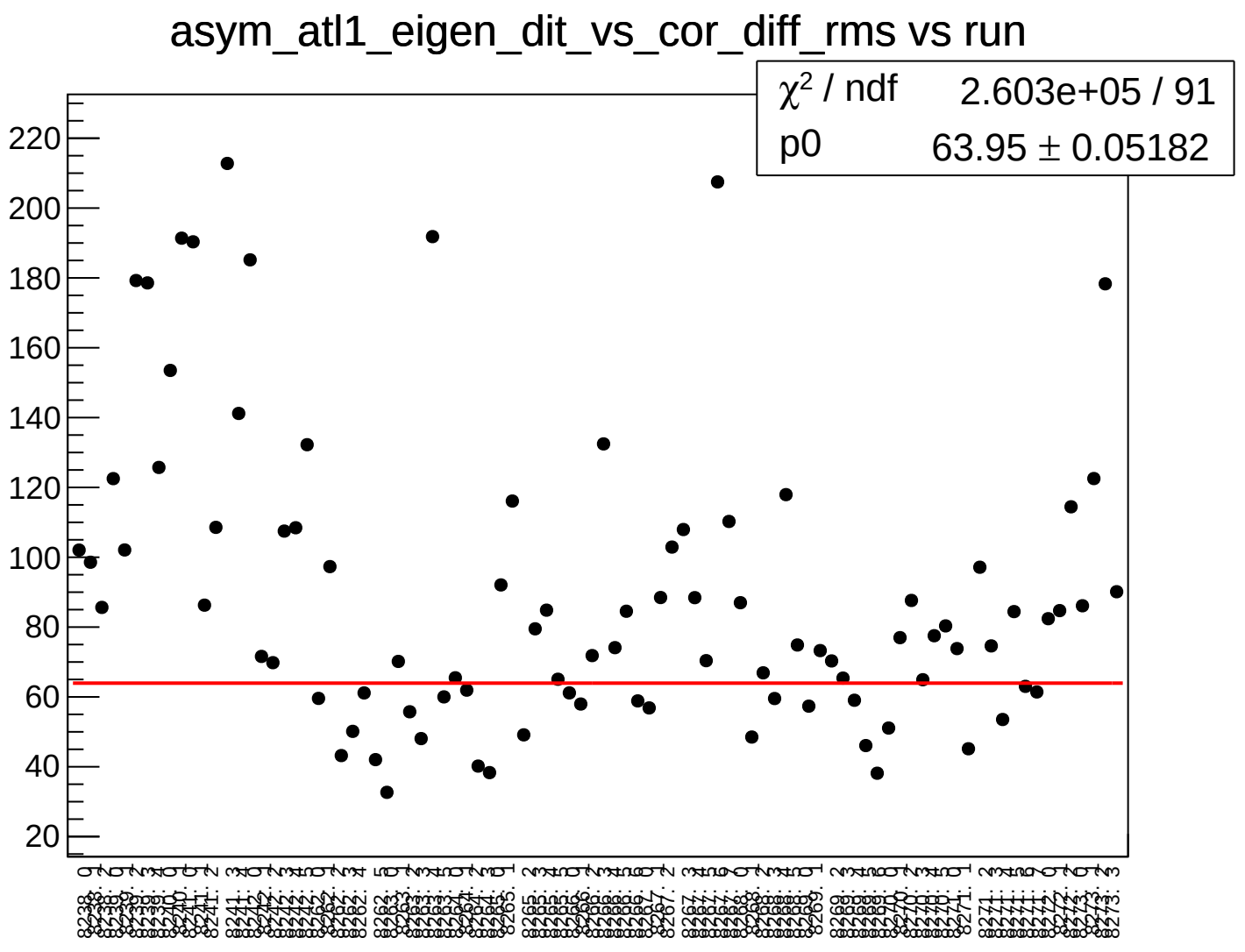

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 2.603e+05 / 91
p0 63.95 ± 0.05182
220
200
180
160
140
120
100
80
60
40
20

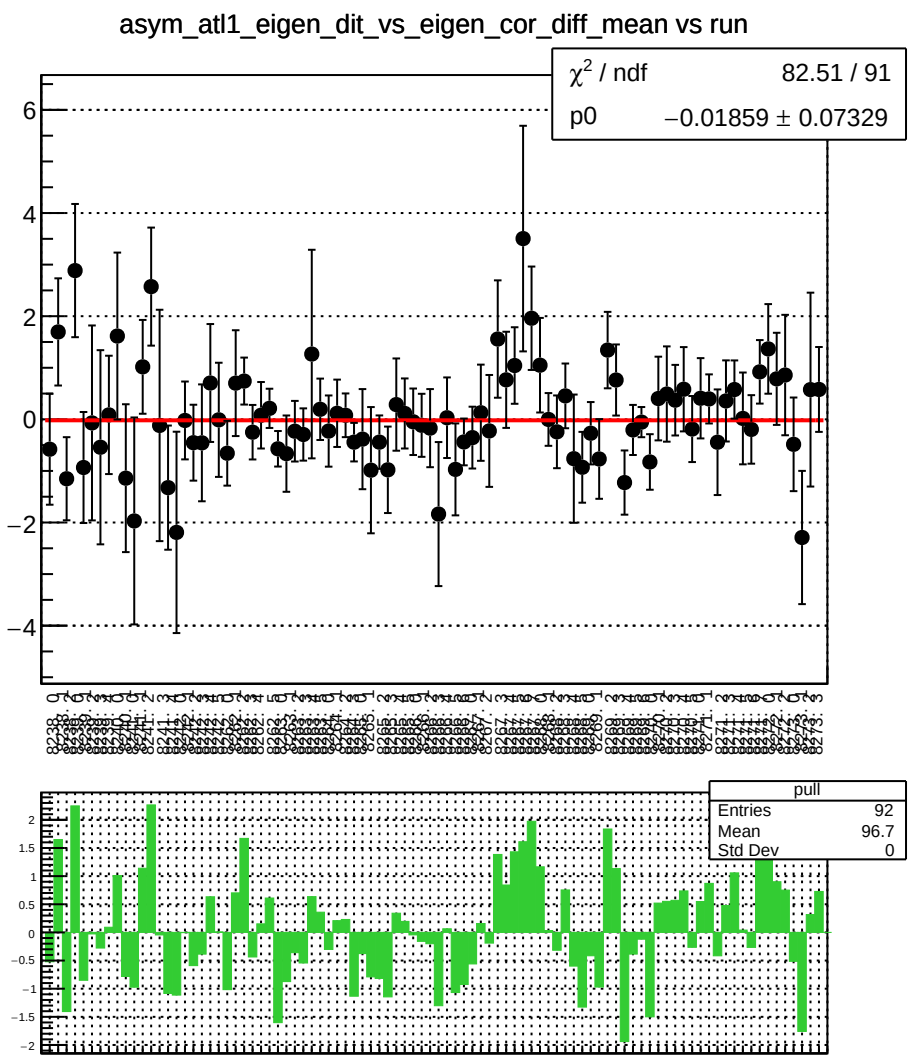

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 58.99 / 91
p0 −3.7e−06 ± 1.289e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 92
Mean 320.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

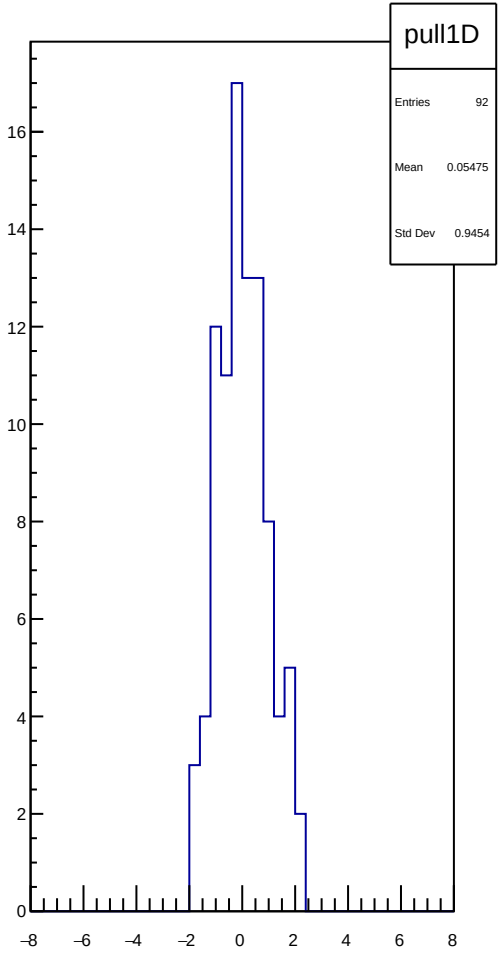

pull1D
Entries 92
Mean 0.01015
Std Dev 0.8007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

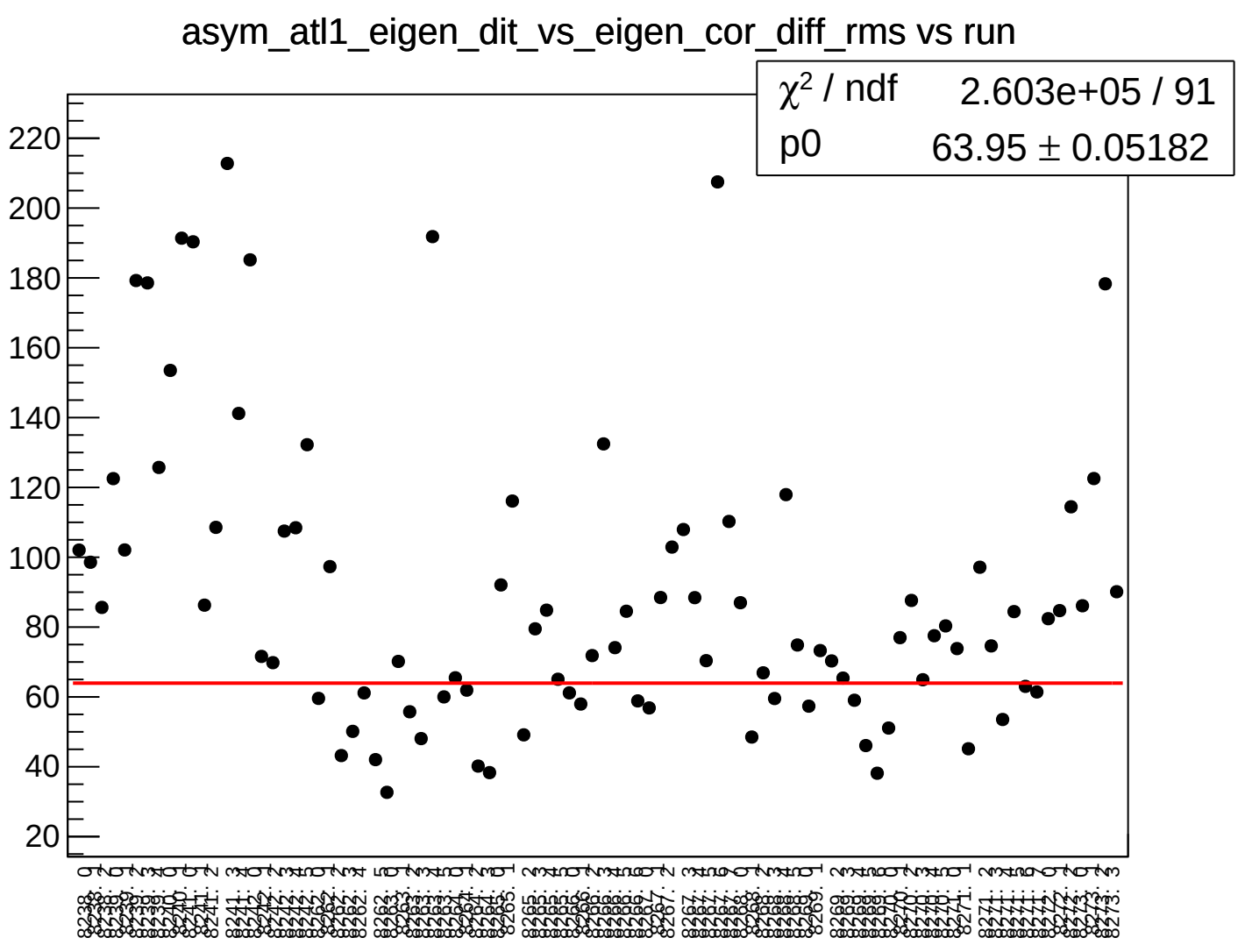

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.8e+04 / 91
p0 0.001207 ± 9.114e−07
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008

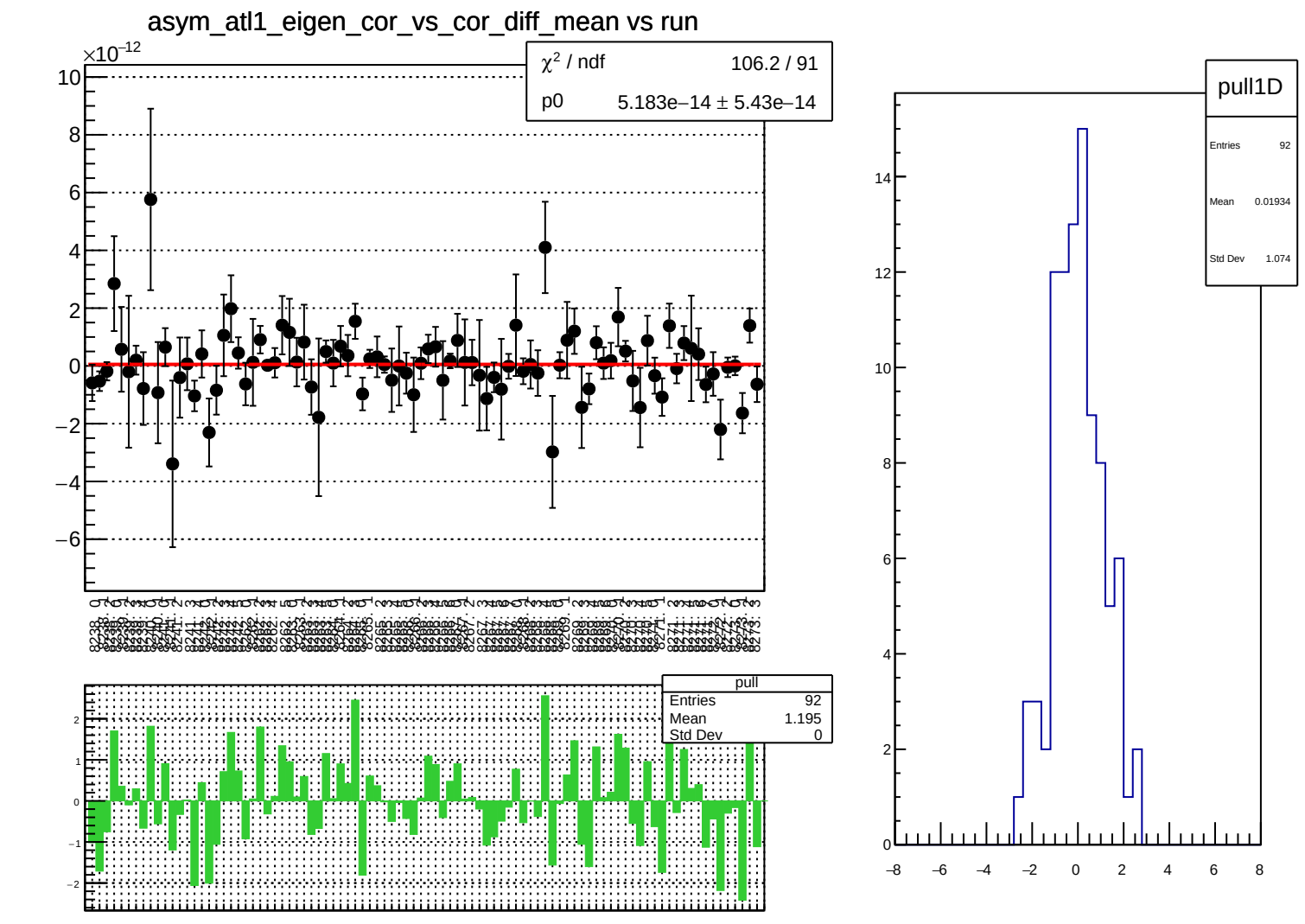

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.51 / 91
p0 −0.01859 ± 0.07329
pull
Entries 92
Mean 96.7
Std Dev 0
pull1D
Entries 92
Mean 0.05475
Std Dev 0.9454

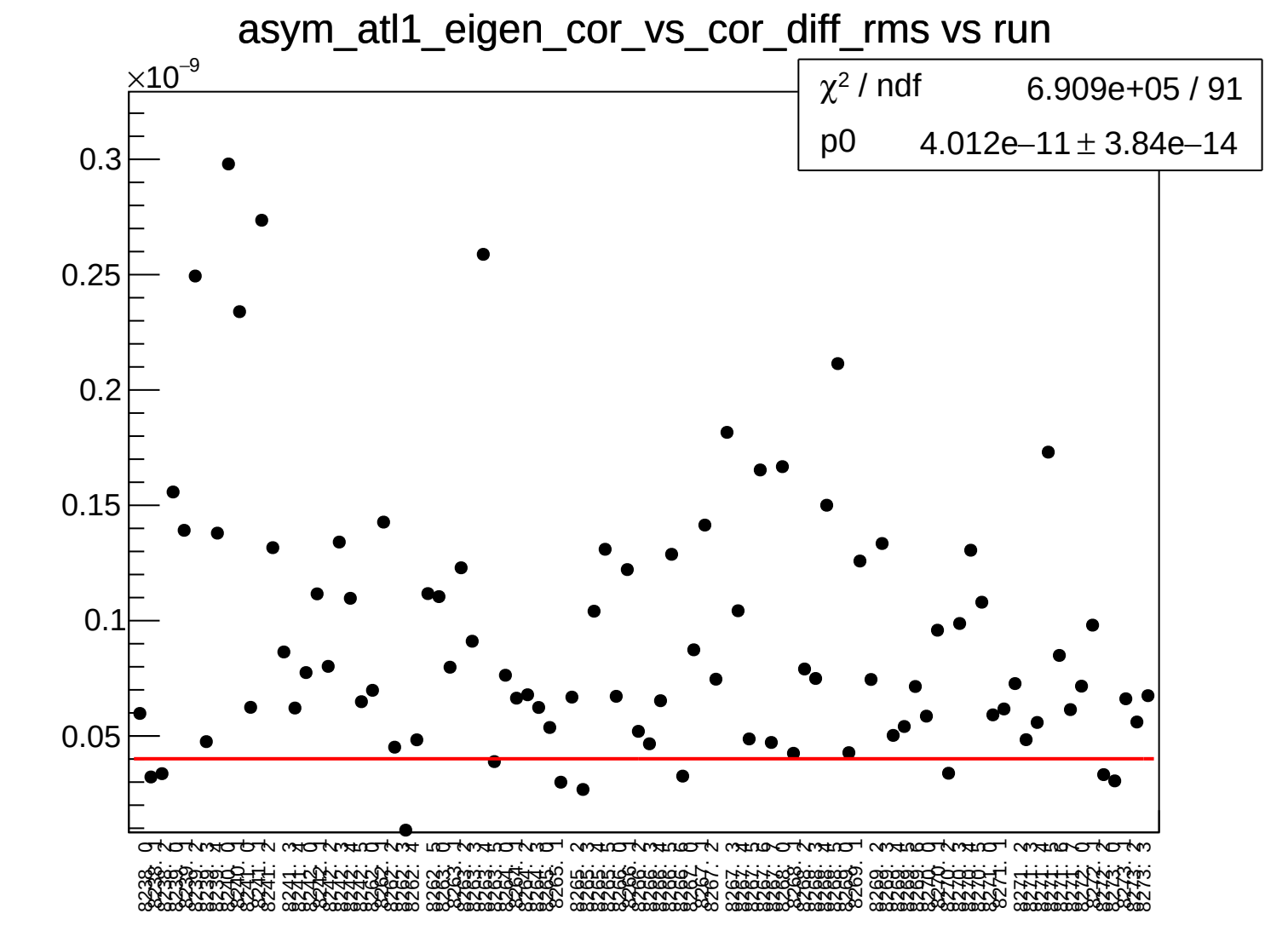

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.603e+05 / 91
p0 63.95 ± 0.05182
220
200
180
160
140
120
100
80
60
40
20

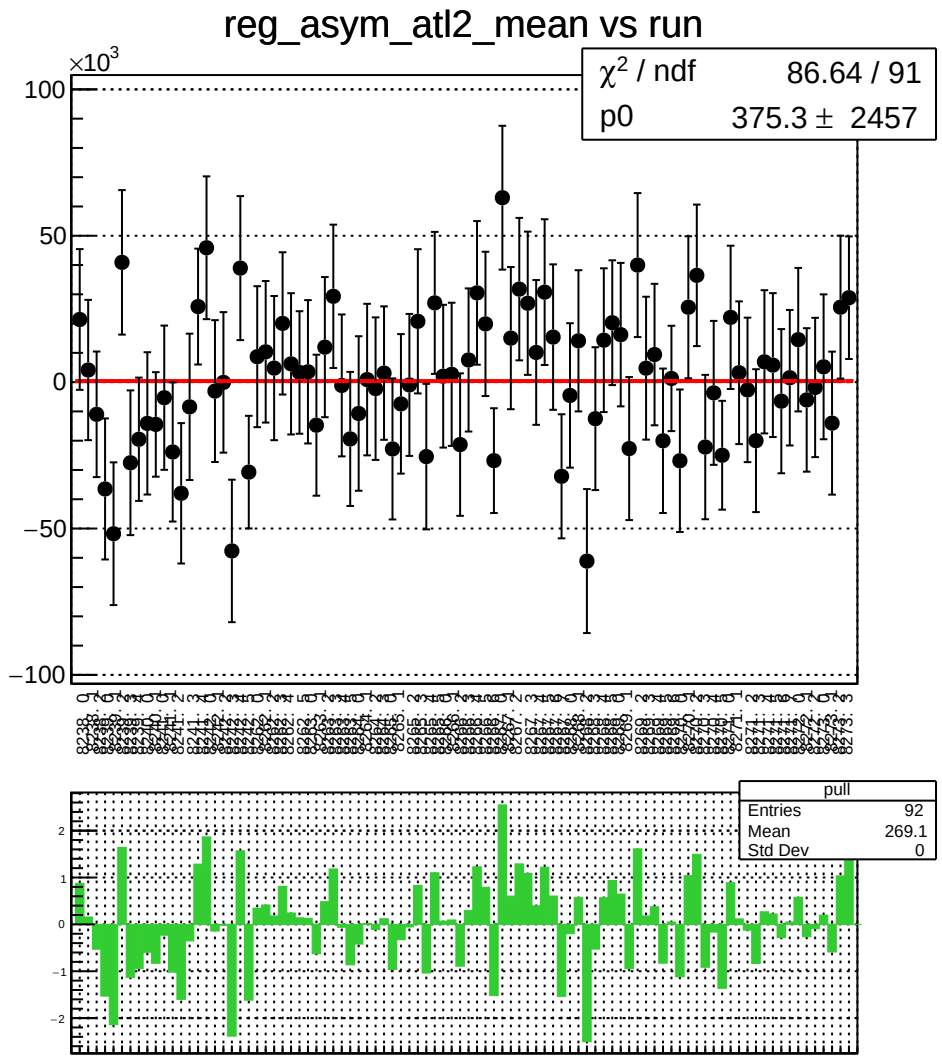

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.51 / 91
p0 −0.01859 ± 0.07329
pull
Entries 92
Mean 96.7
Std Dev 0

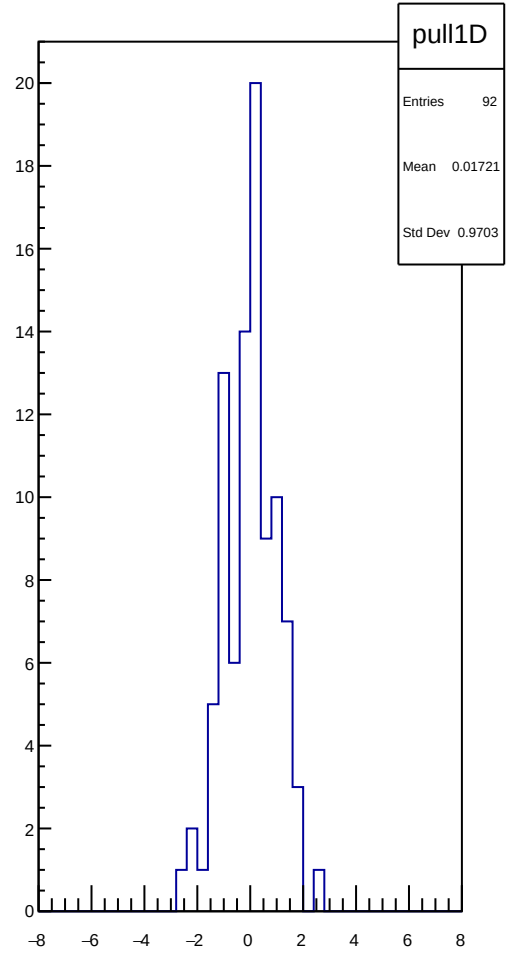

pull1D
Entries 92
Mean 0.05475
Std Dev 0.9454

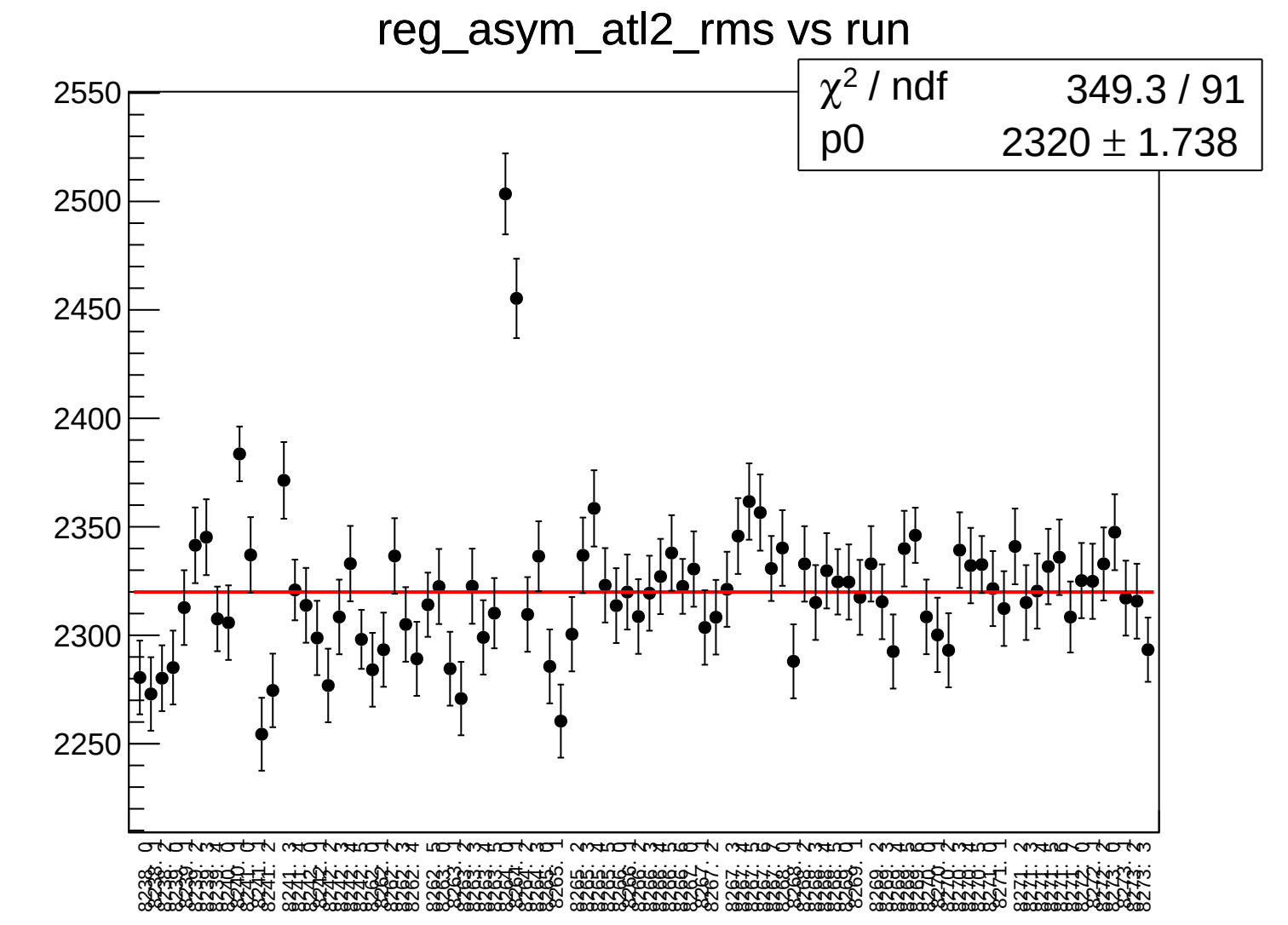

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.603e+05 / 91
p0 63.95 ± 0.05182
220
200
180
160
140
120
100
80
60
40
20

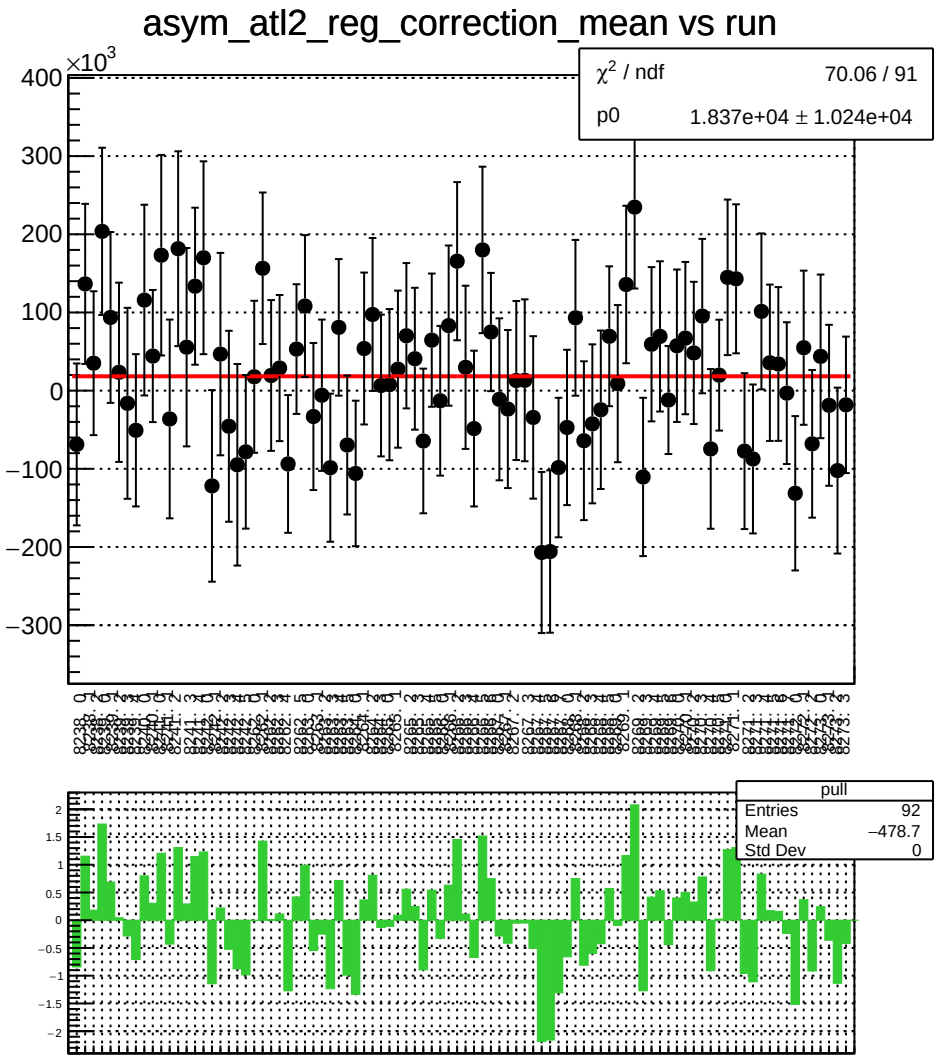

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.2 / 91
p0 5.183e−14 ± 5.43e−14
pull
Entries 92
Mean 1.195
Std Dev 0
pull1D
Entries 92
Mean 0.01934
Std Dev 1.074

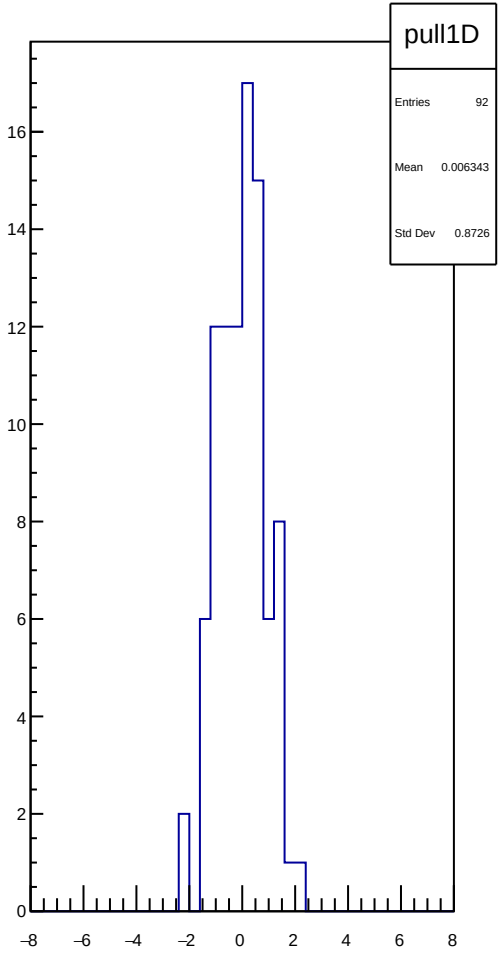

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.909e+05 / 91
p0 4.012e−11 ± 3.84e−14
0.3
0.25
0.2
0.15
0.1
0.05

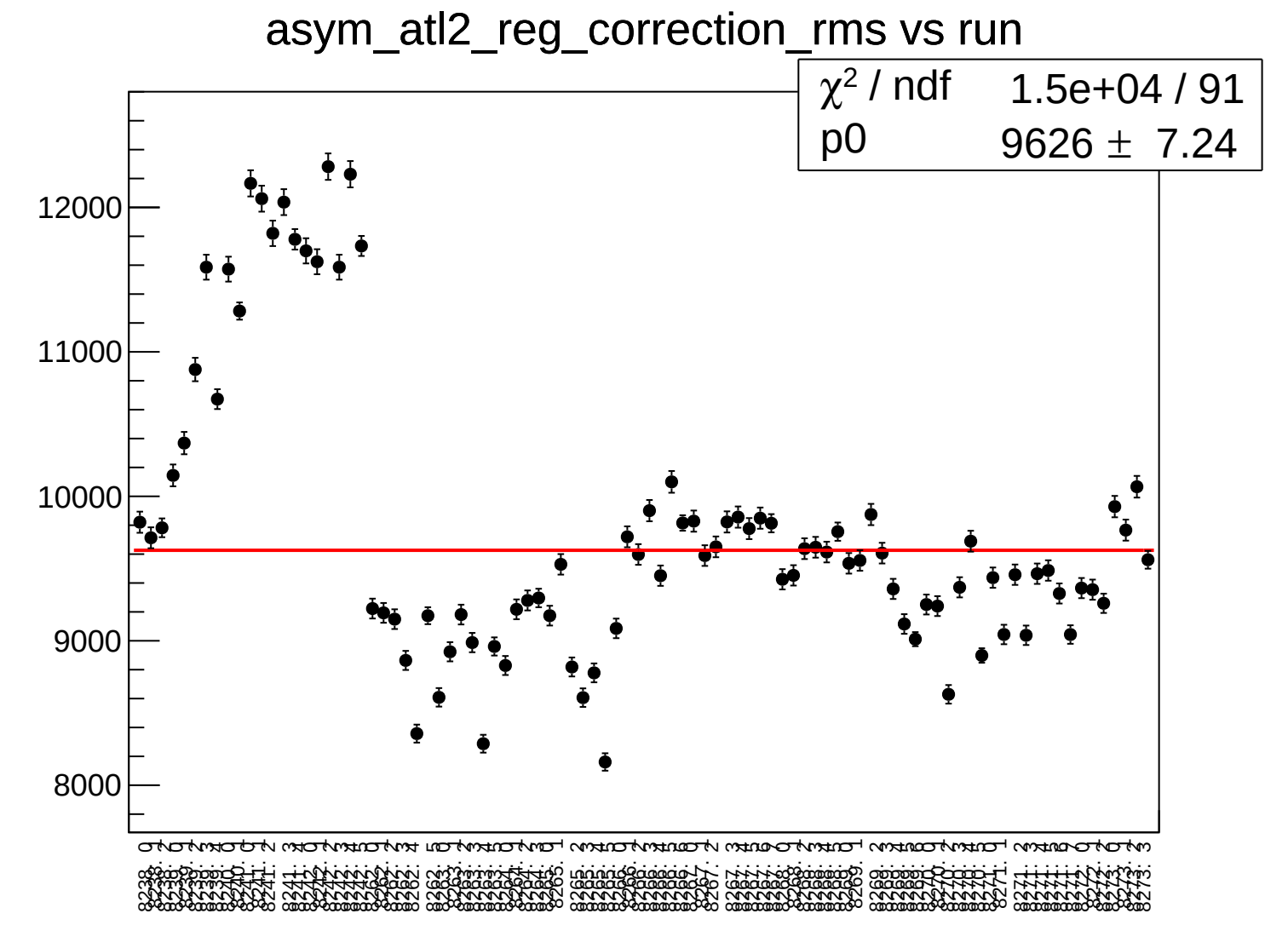

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 86.64 / 91
p0 375.3 ± 2457
pull
Entries 92
Mean 269.1
Std Dev 0

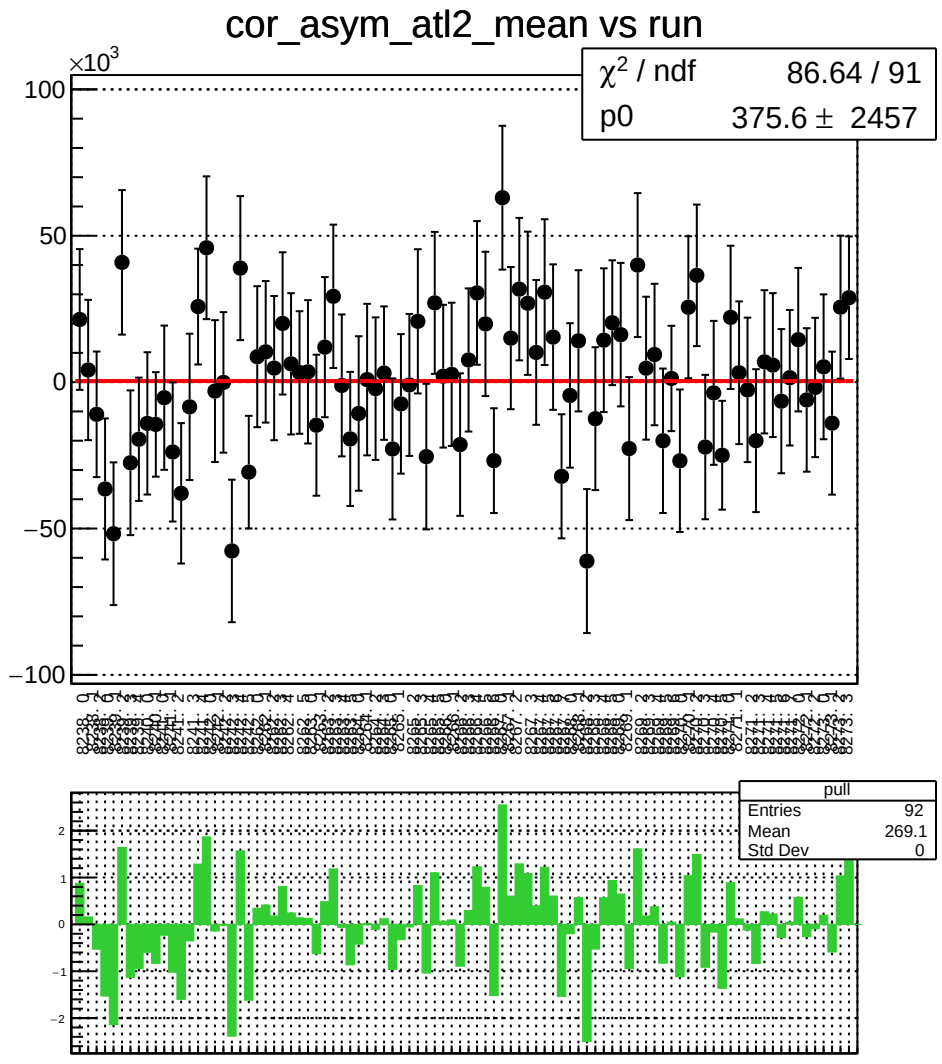

pull1D
Entries 92
Mean 0.01721
Std Dev 0.9703

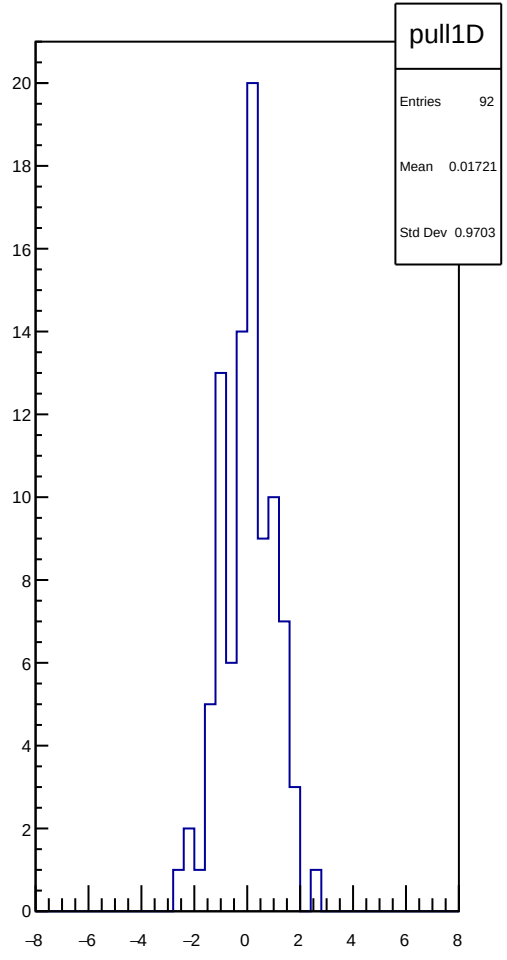

reg_asym_atl2_rms vs run
$\chi^2$ / ndf 349.3 / 91
p0 2320 ± 1.738
2550
2500
2450
2400
2350
2300
2250

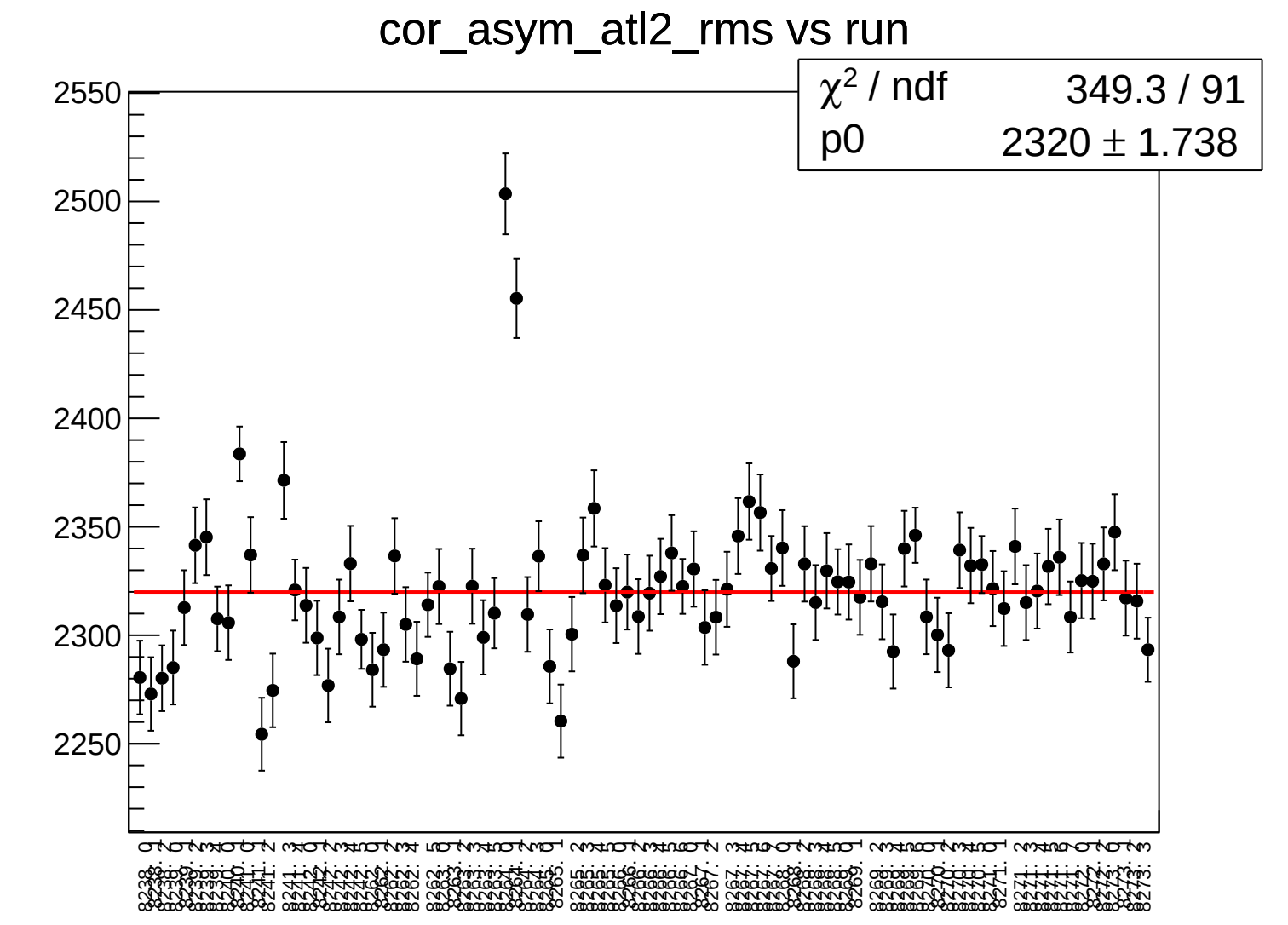

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 70.06 / 91
p0 1.837e+04 ± 1.024e+04
pull
Entries 92
Mean −478.7
Std Dev 0

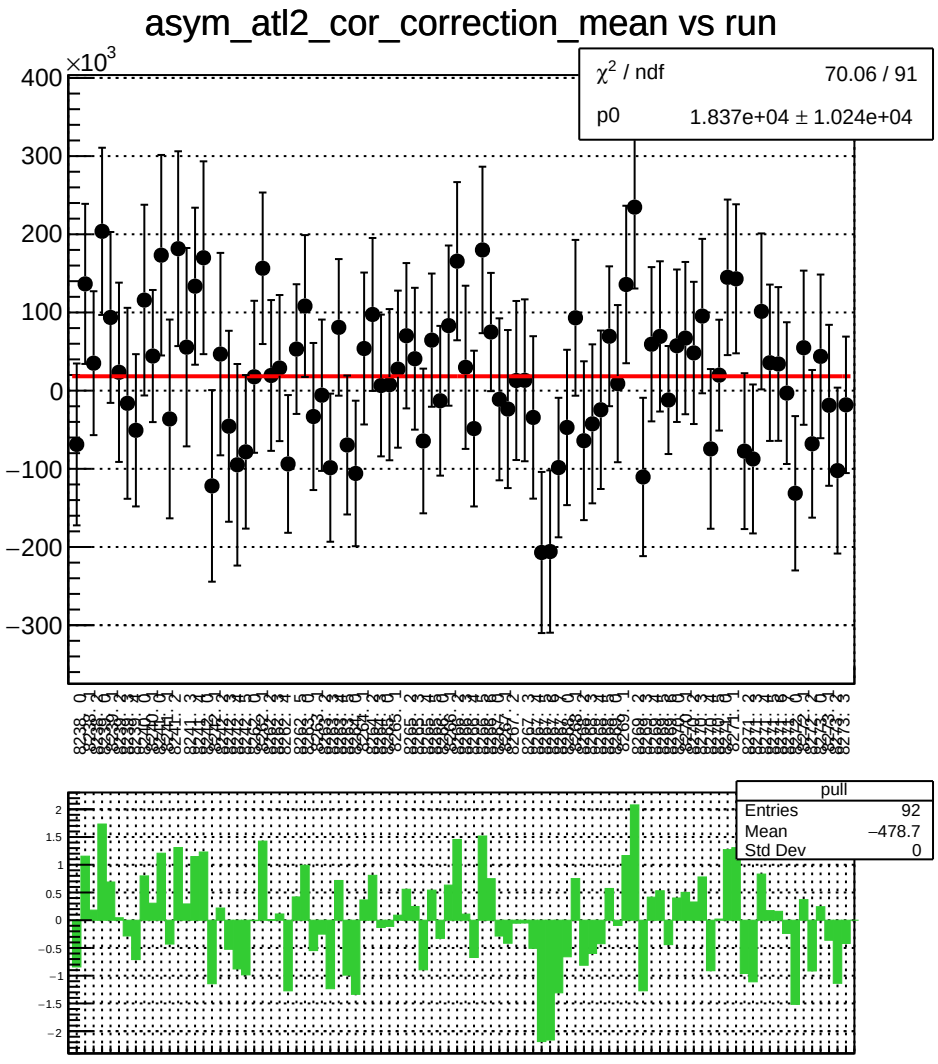

pull1D
Entries 92
Mean 0.006343
Std Dev 0.8726

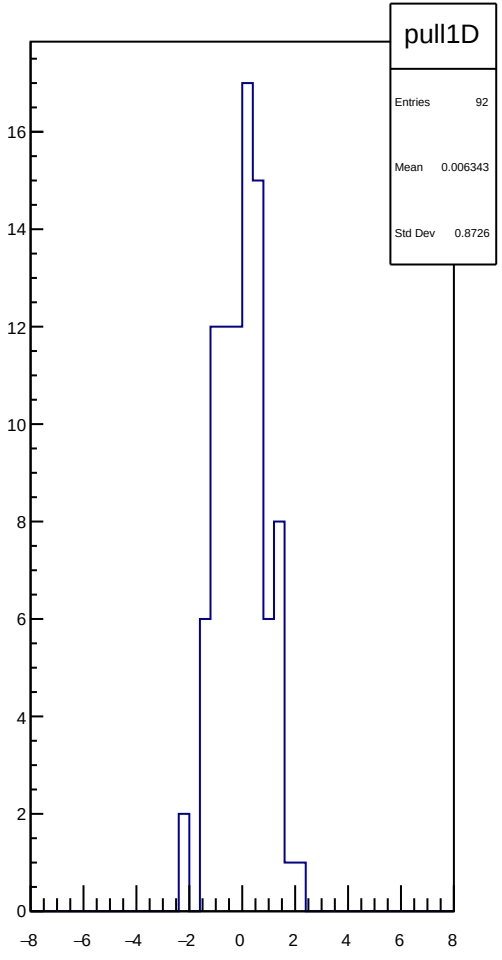

asym_atl2_reg_correction_rms vs run
χ² / ndf 1.5e+04 / 91
p0 9626 ± 7.24
12000
11000
10000
9000
8000

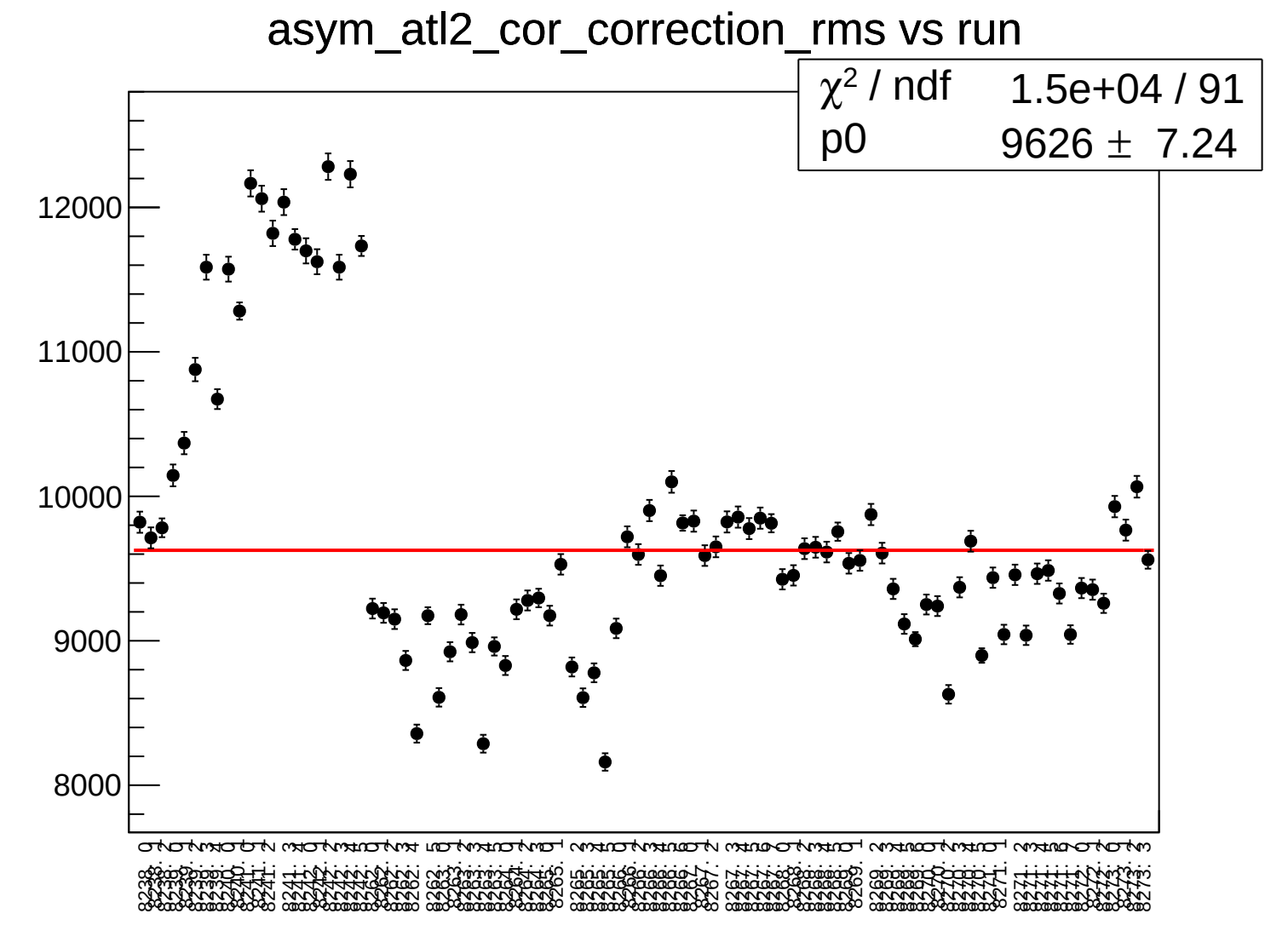

cor_asym_atl2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 86.64 / 91
p0 375.6 ± 2457
pull
Entries 92
Mean 269.1
Std Dev 0
2
1
0
−1
−2

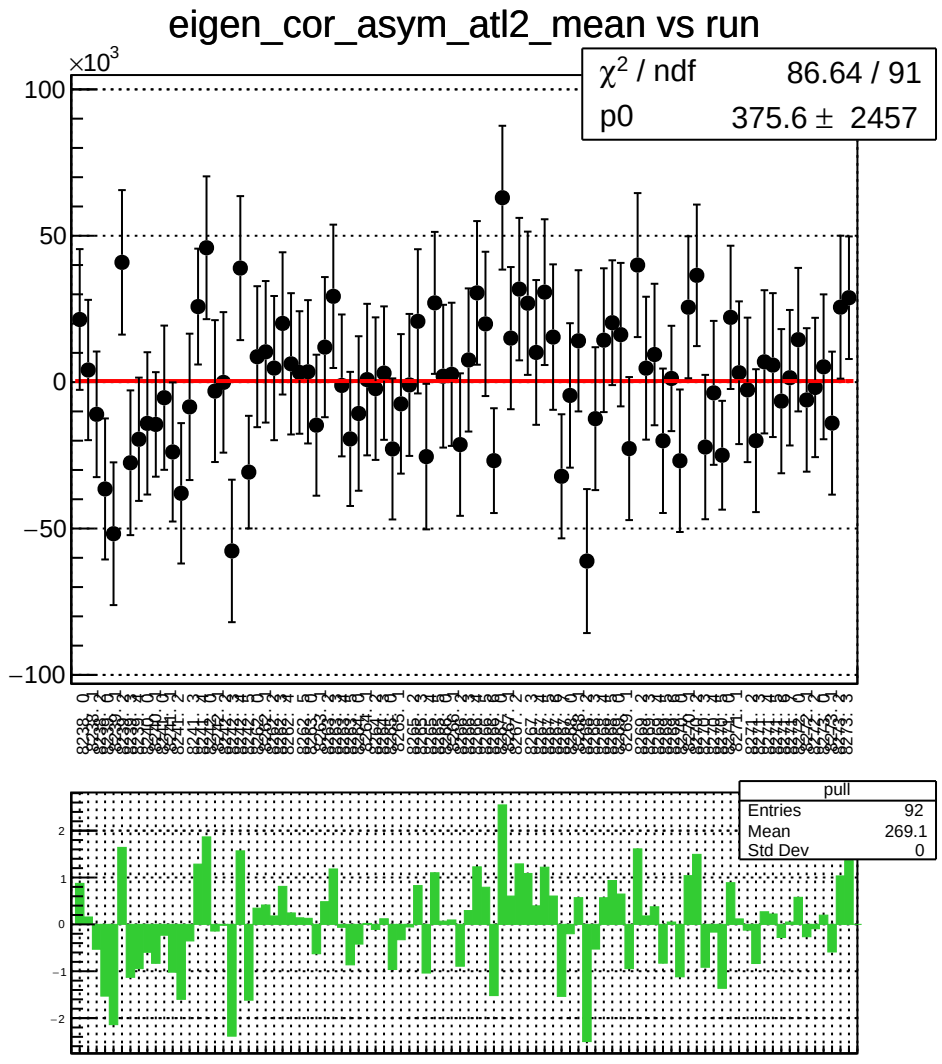

pull1D
Entries 92
Mean 0.01721
Std Dev 0.9703
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

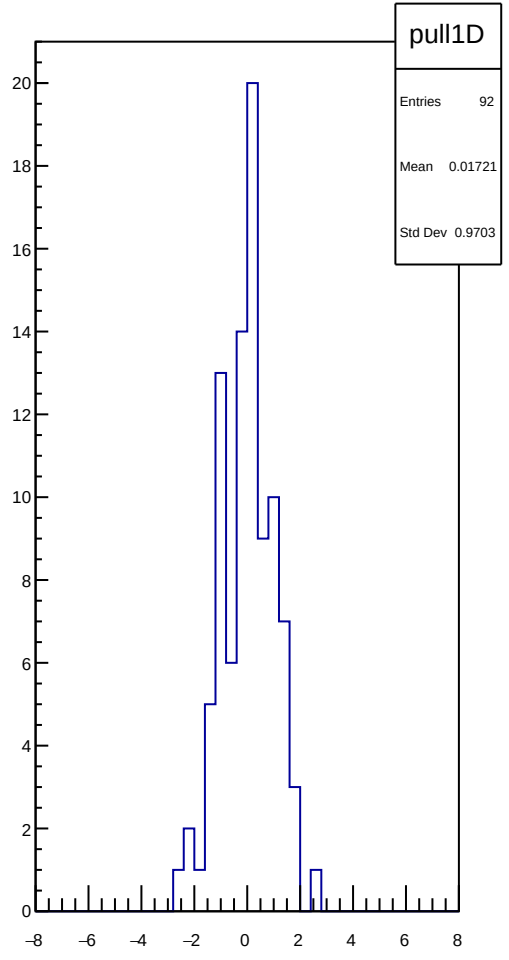

cor_asym_atl2_rms vs run
$\chi^2$ / ndf 349.3 / 91
p0 2320 ± 1.738
2550
2500
2450
2400
2350
2300
2250

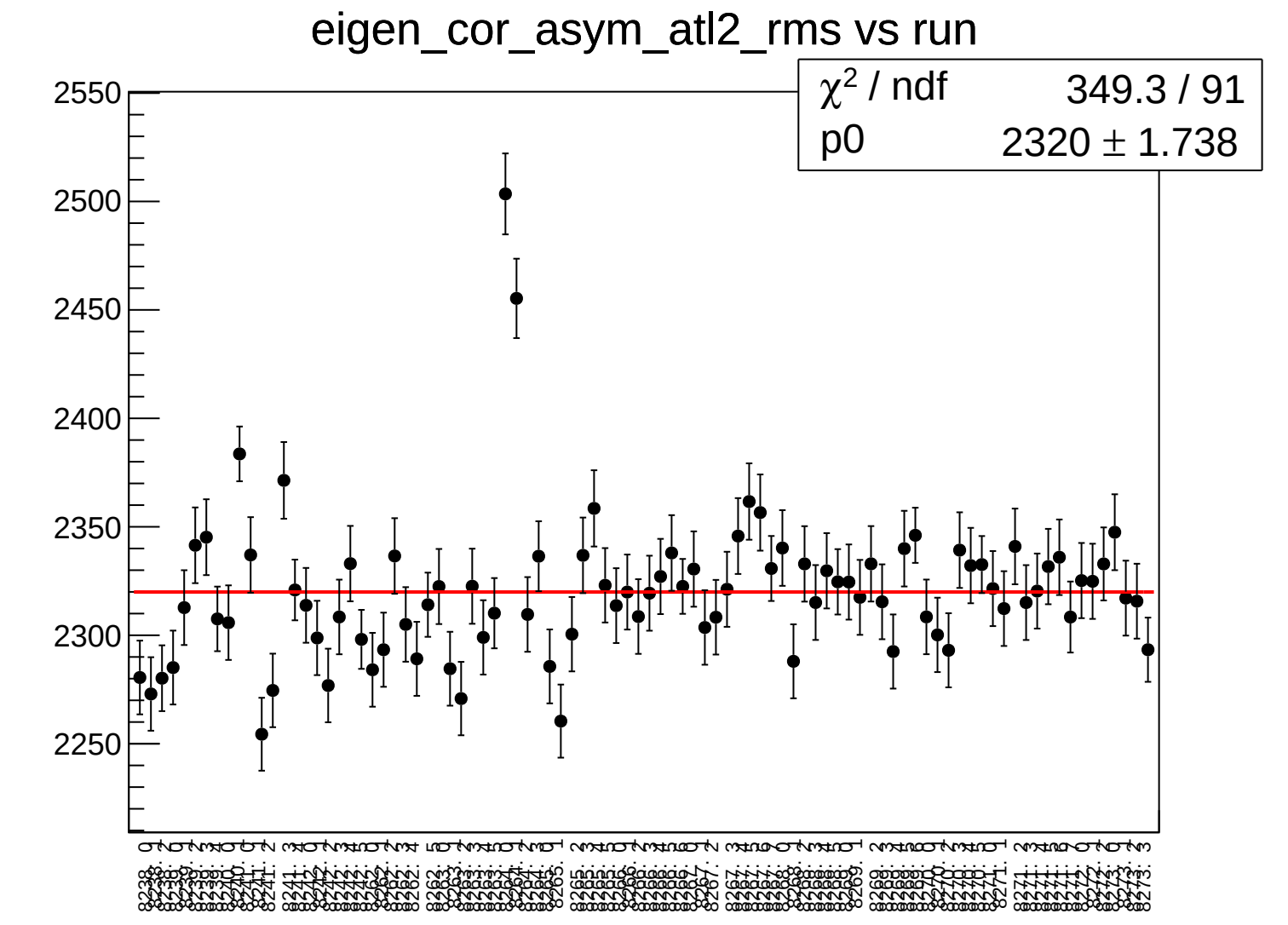

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 70.06 / 91
p0 1.837e+04 ± 1.024e+04
pull
Entries 92
Mean −478.7
Std Dev 0

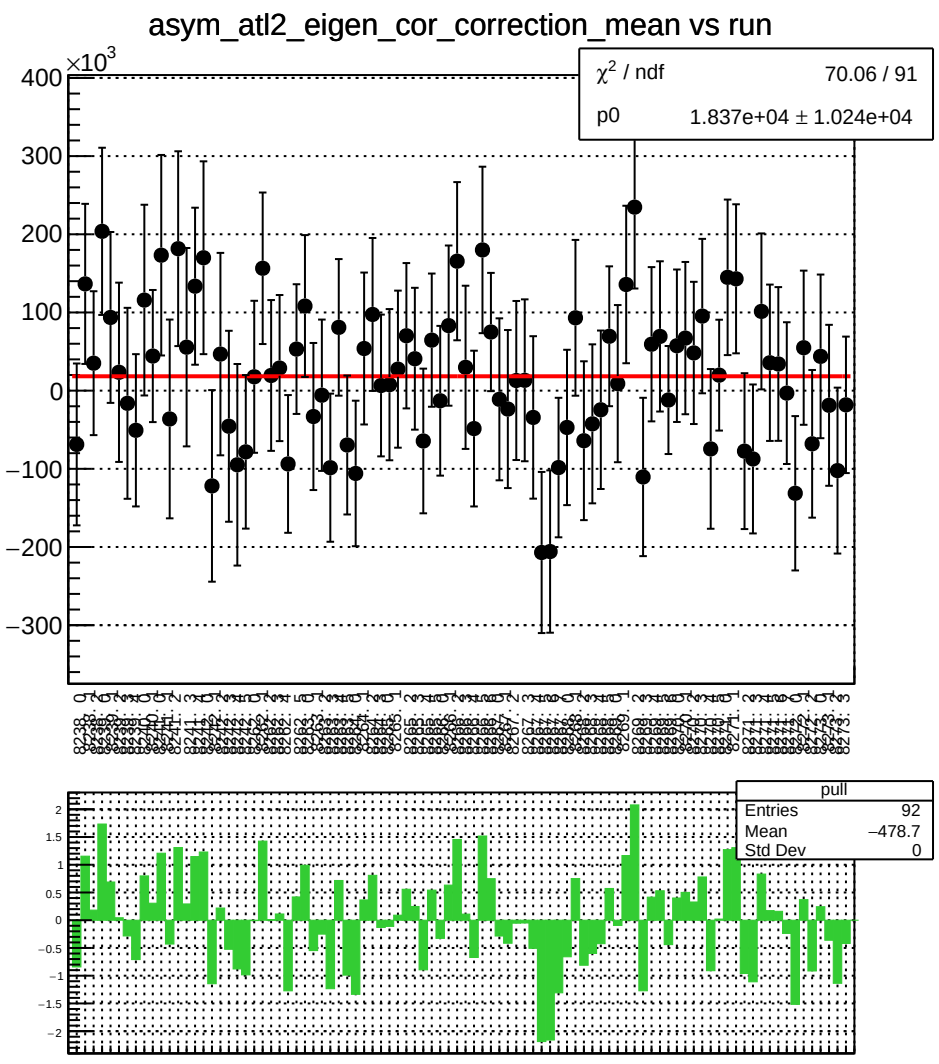

pull1D
Entries 92
Mean 0.006343
Std Dev 0.8726

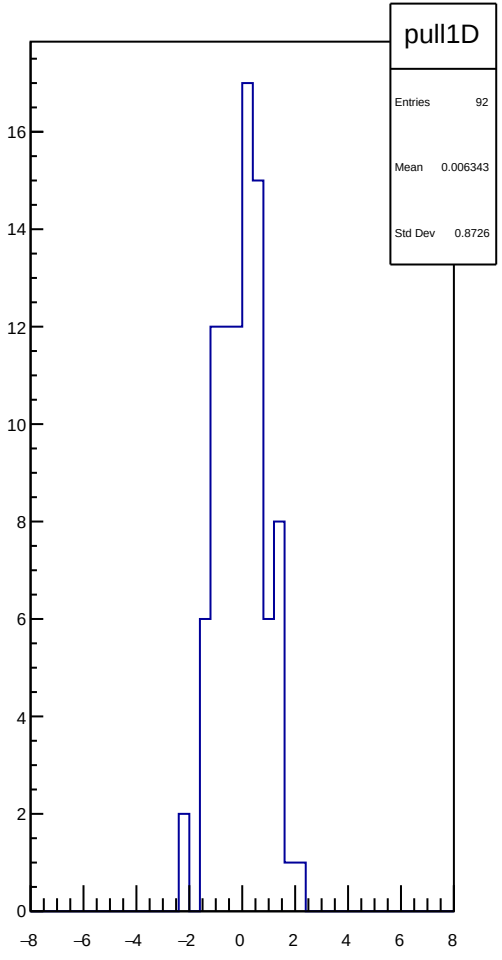

asym_atl2_cor_correction_rms vs run
χ² / ndf 1.5e+04 / 91
p0 9626 ± 7.24
12000
11000
10000
9000
8000

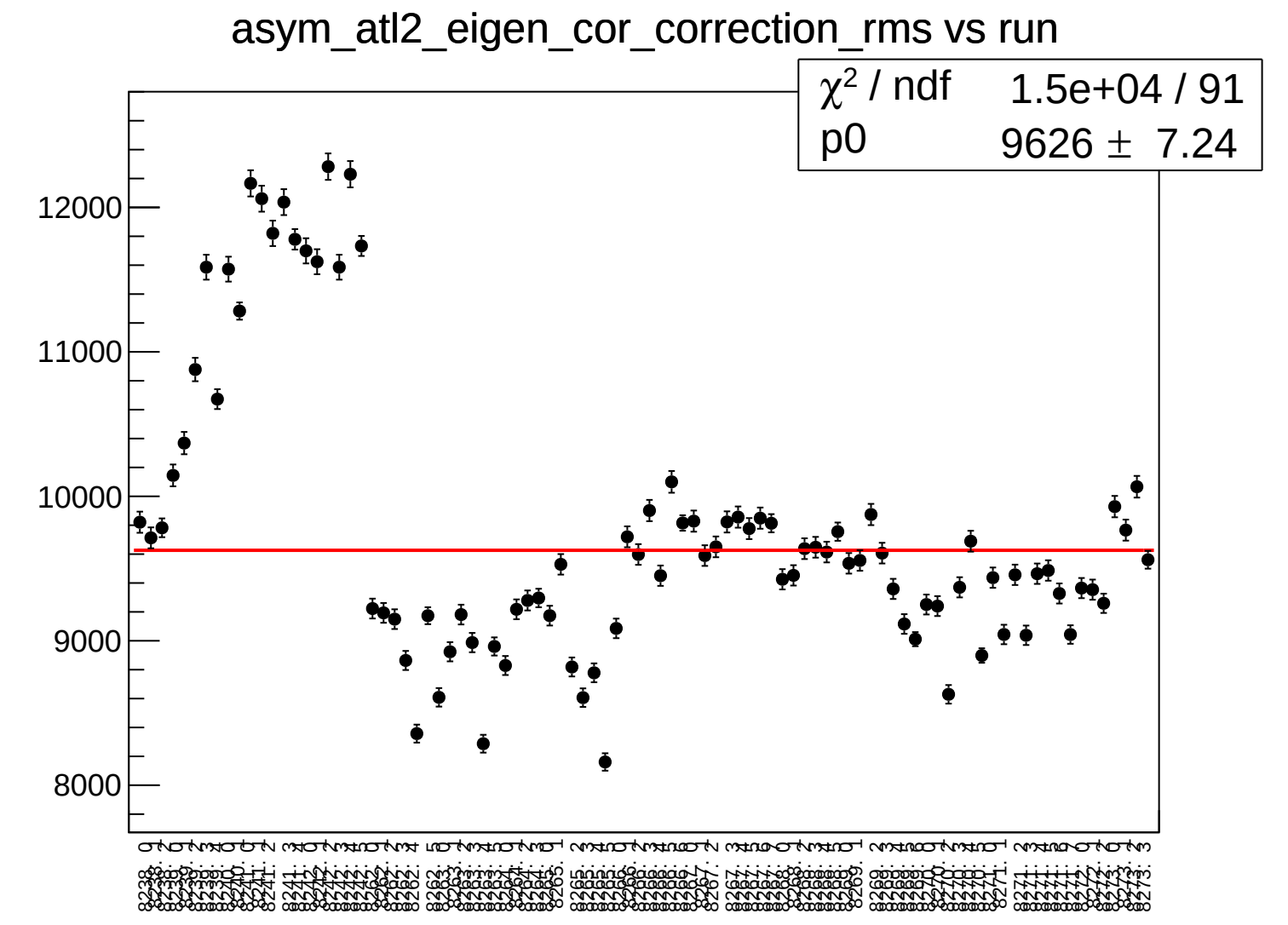

eigen_cor_asym_atl2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 86.64 / 91
p0 375.6 ± 2457
pull
Entries 92
Mean 269.1
Std Dev 0
2
1
0
−1
−2

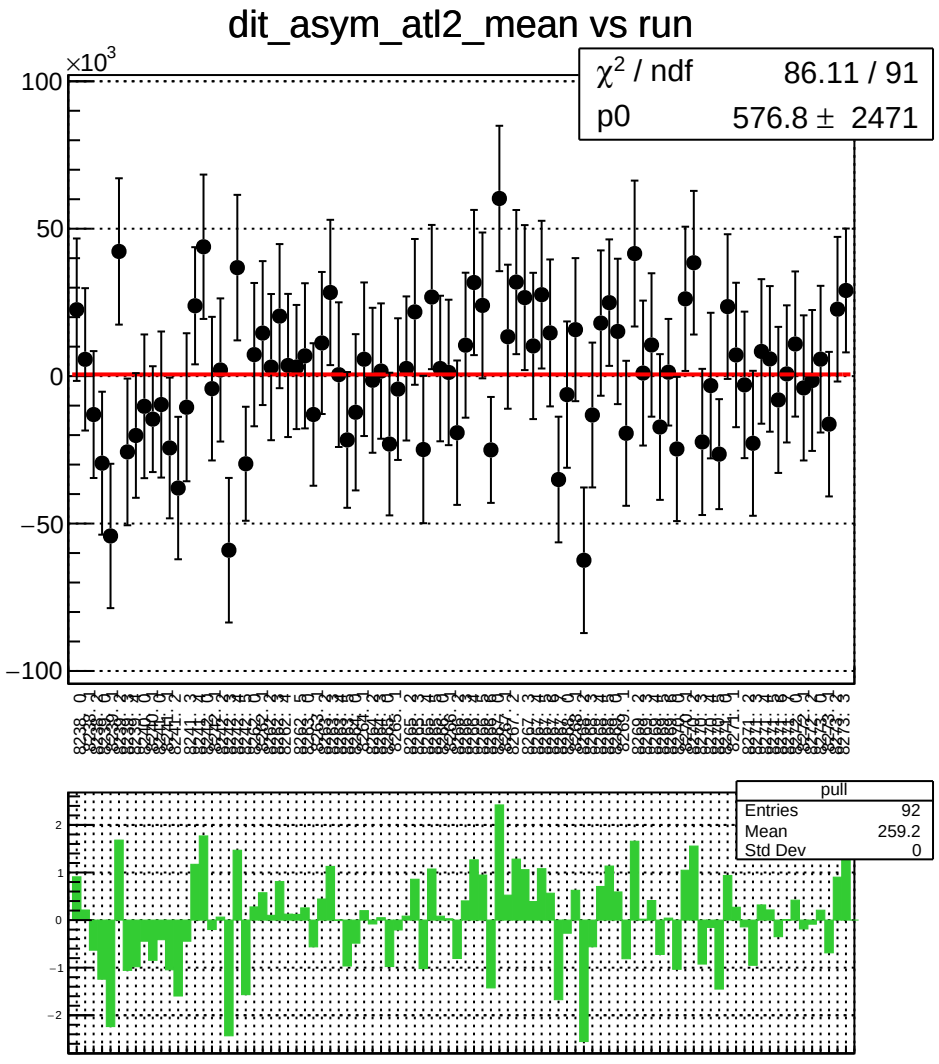

pull1D
Entries 92
Mean 0.01721
Std Dev 0.9703
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

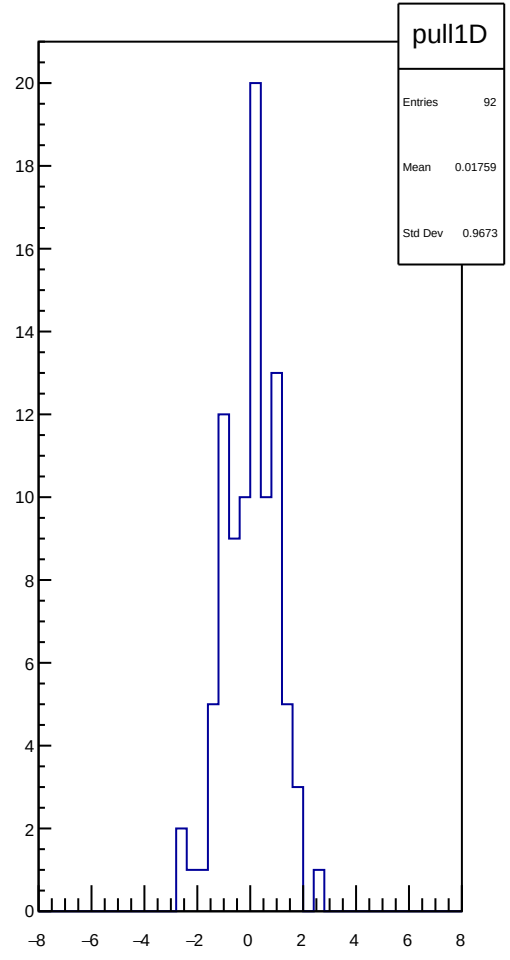

eigen_cor_asym_atl2_rms vs run
$\chi^2$ / ndf 349.3 / 91
p0 2320 ± 1.738
2550
2500
2450
2400
2350
2300
2250

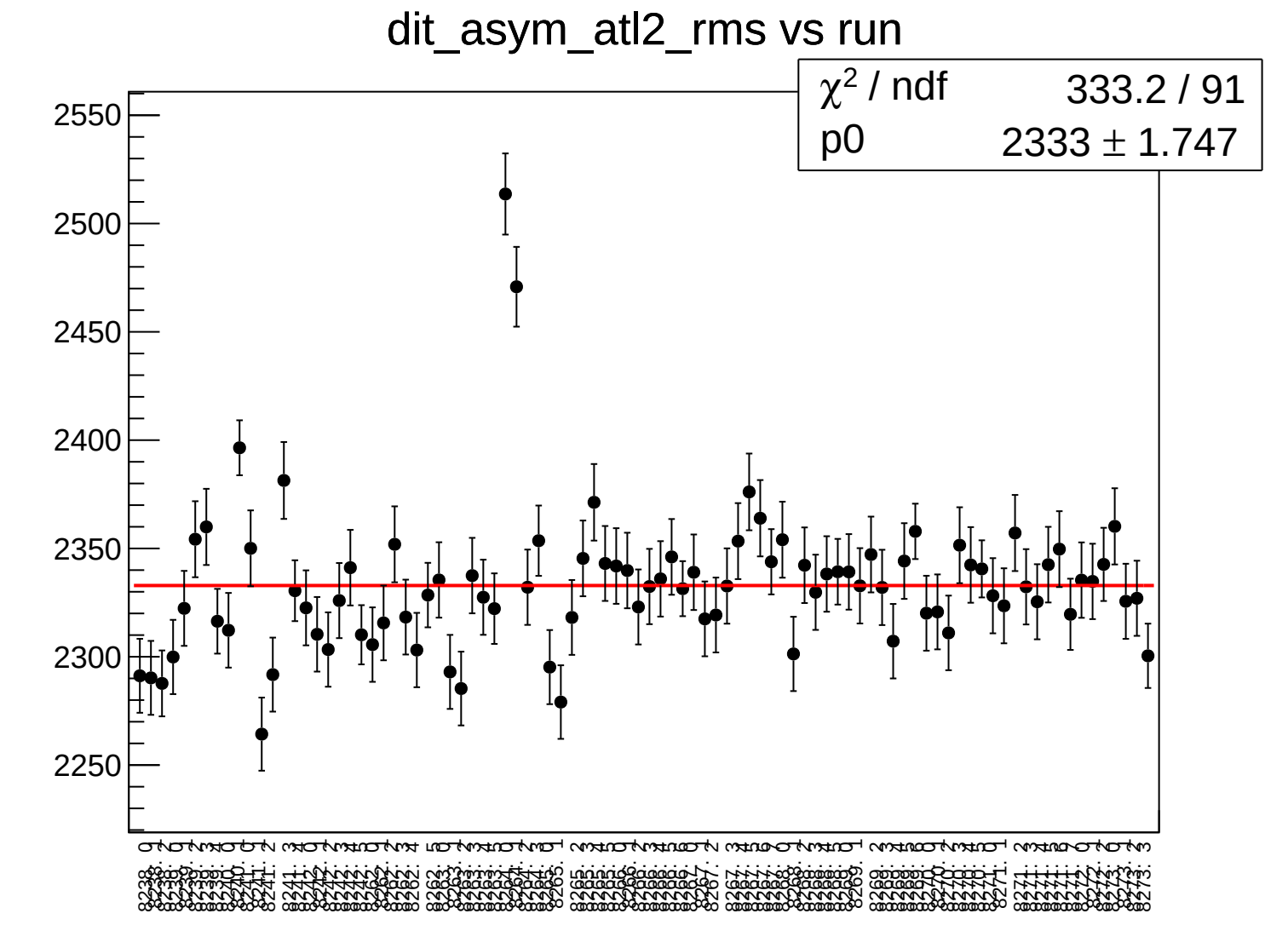

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 70.06 / 91
p0 1.837e+04 ± 1.024e+04
pull
Entries 92
Mean −478.7
Std Dev 0

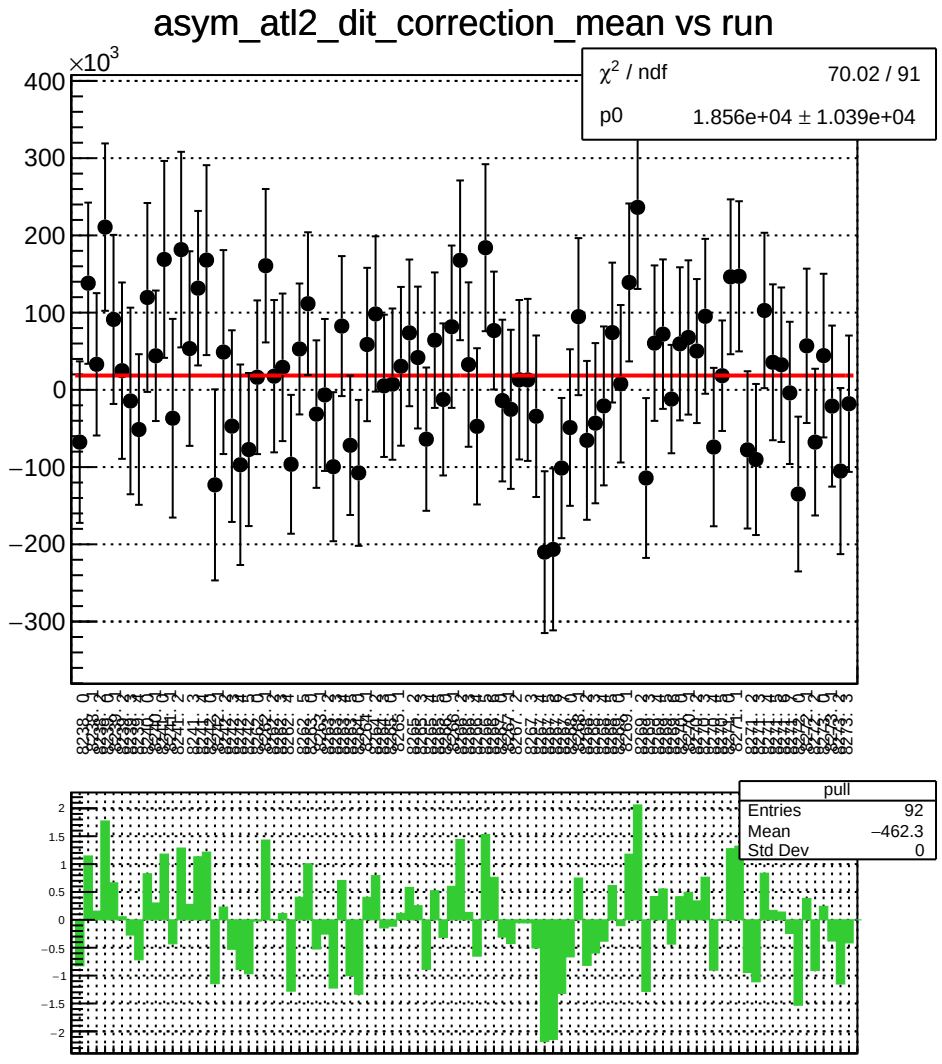

pull1D
Entries 92
Mean 0.006343
Std Dev 0.8726

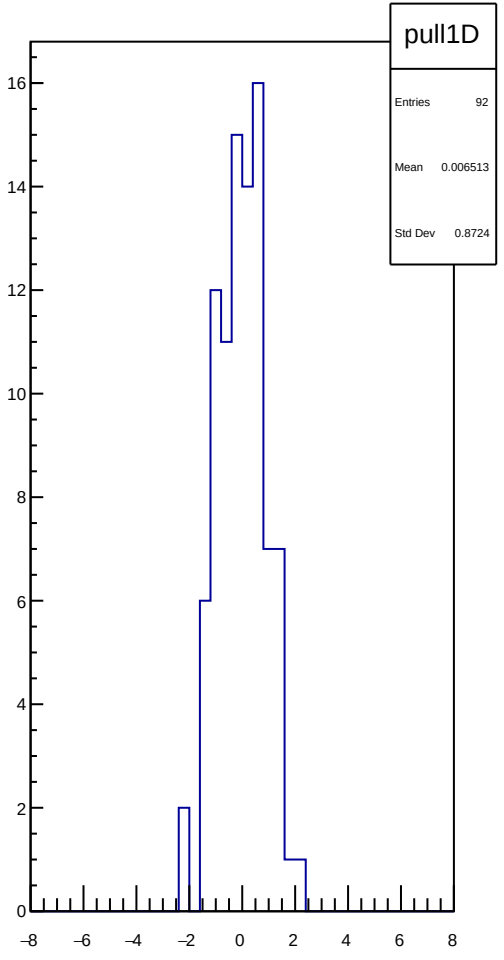

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 1.5e+04 / 91
p0 9626 ± 7.24
12000
11000
10000
9000
8000

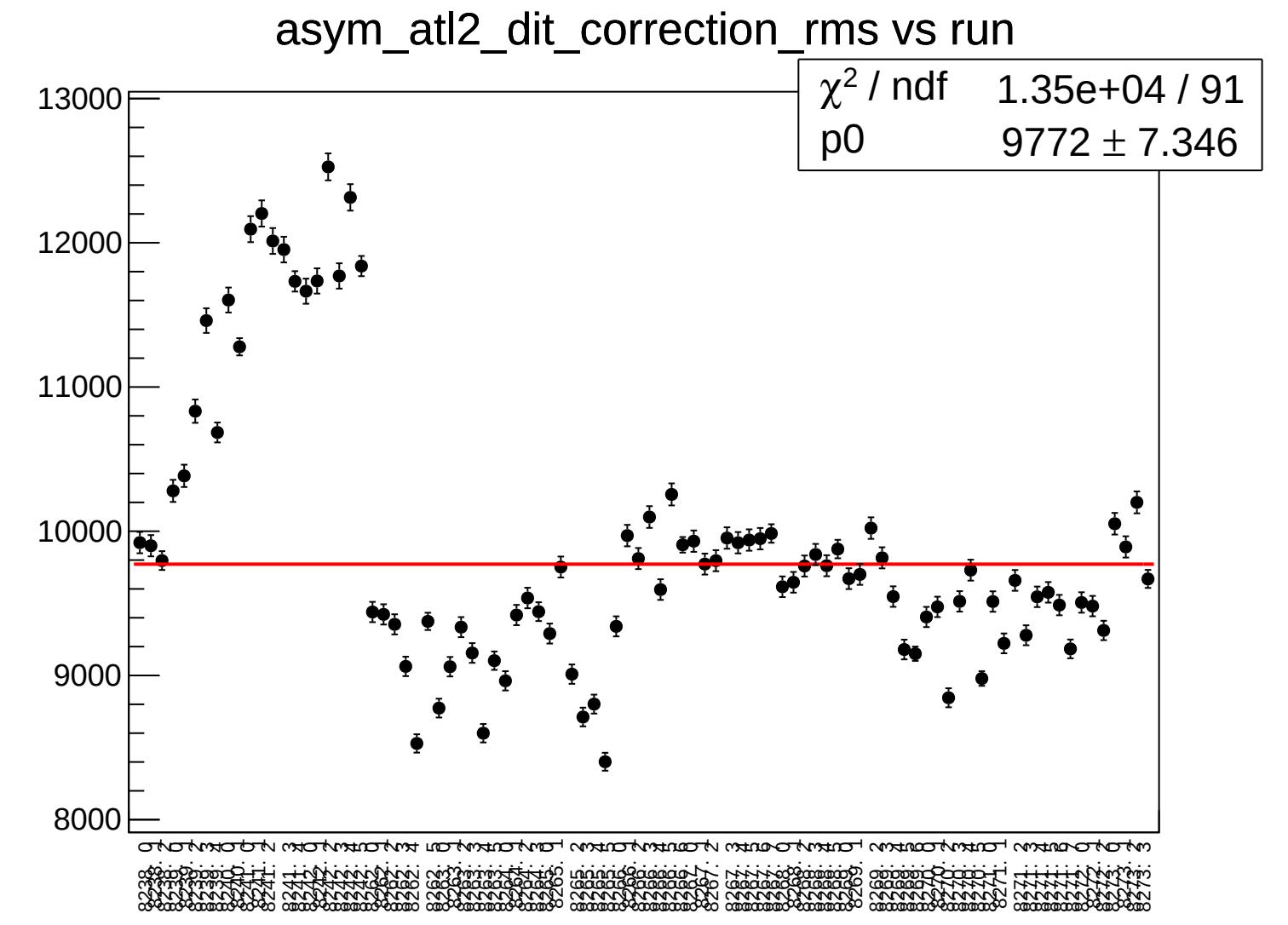

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 86.11 / 91
p0 576.8 ± 2471
pull
Entries 92
Mean 259.2
Std Dev 0

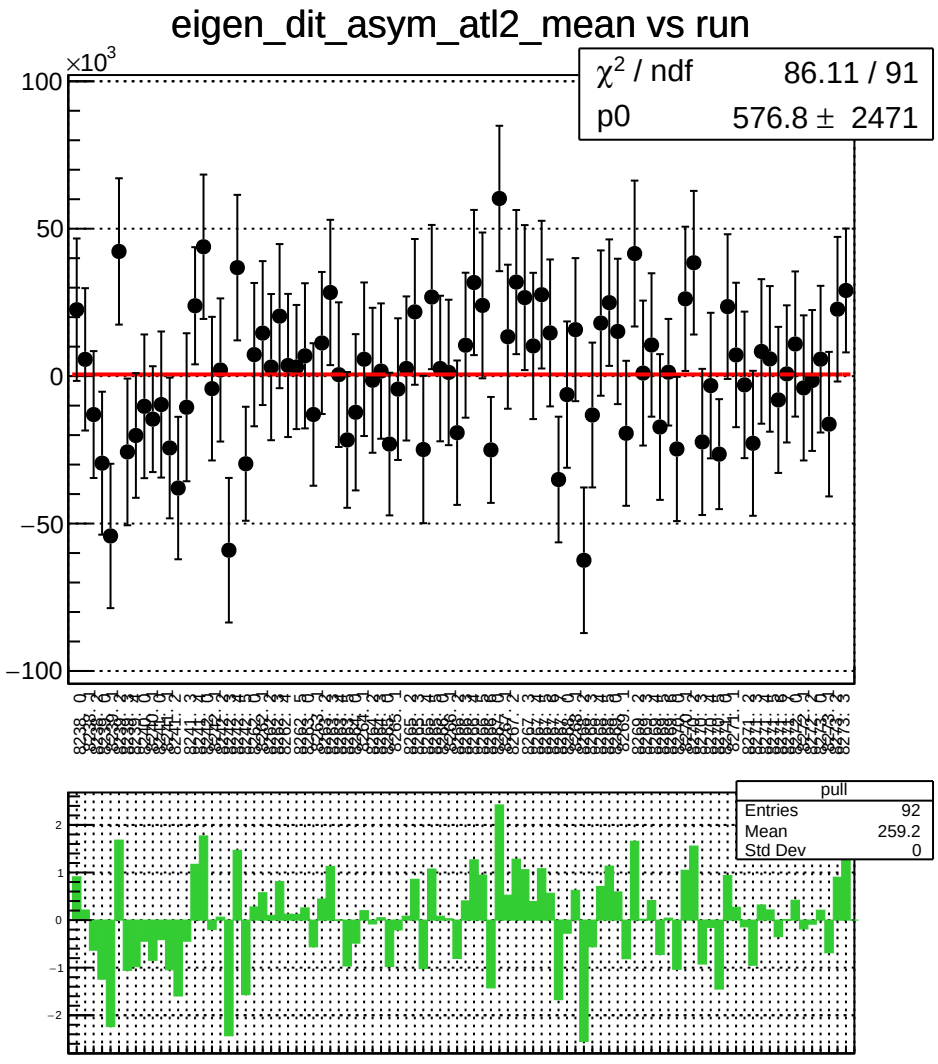

pull1D
Entries 92
Mean 0.01759
Std Dev 0.9673

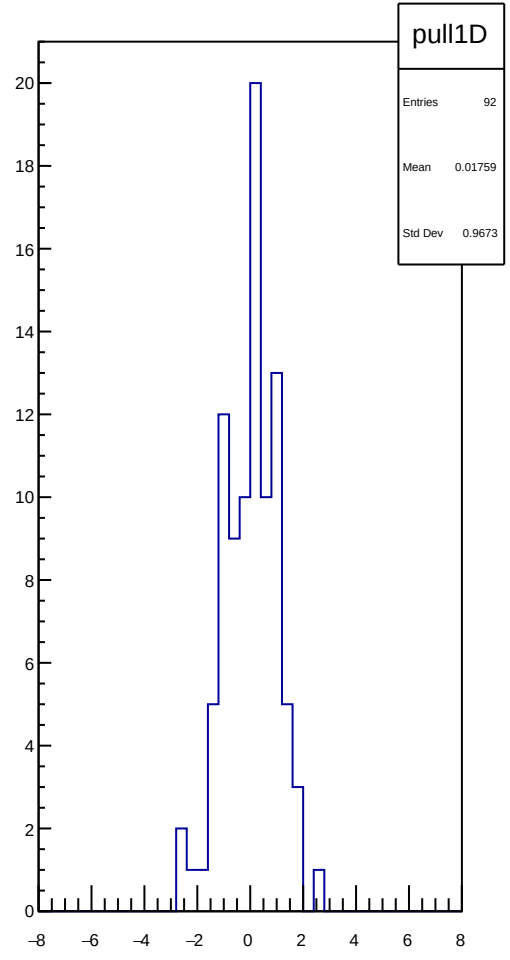

dit_asym_atl2_rms vs run
$\chi^2$ / ndf 333.2 / 91
p0 2333 ± 1.747
2550
2500
2450
2400
2350
2300
2250

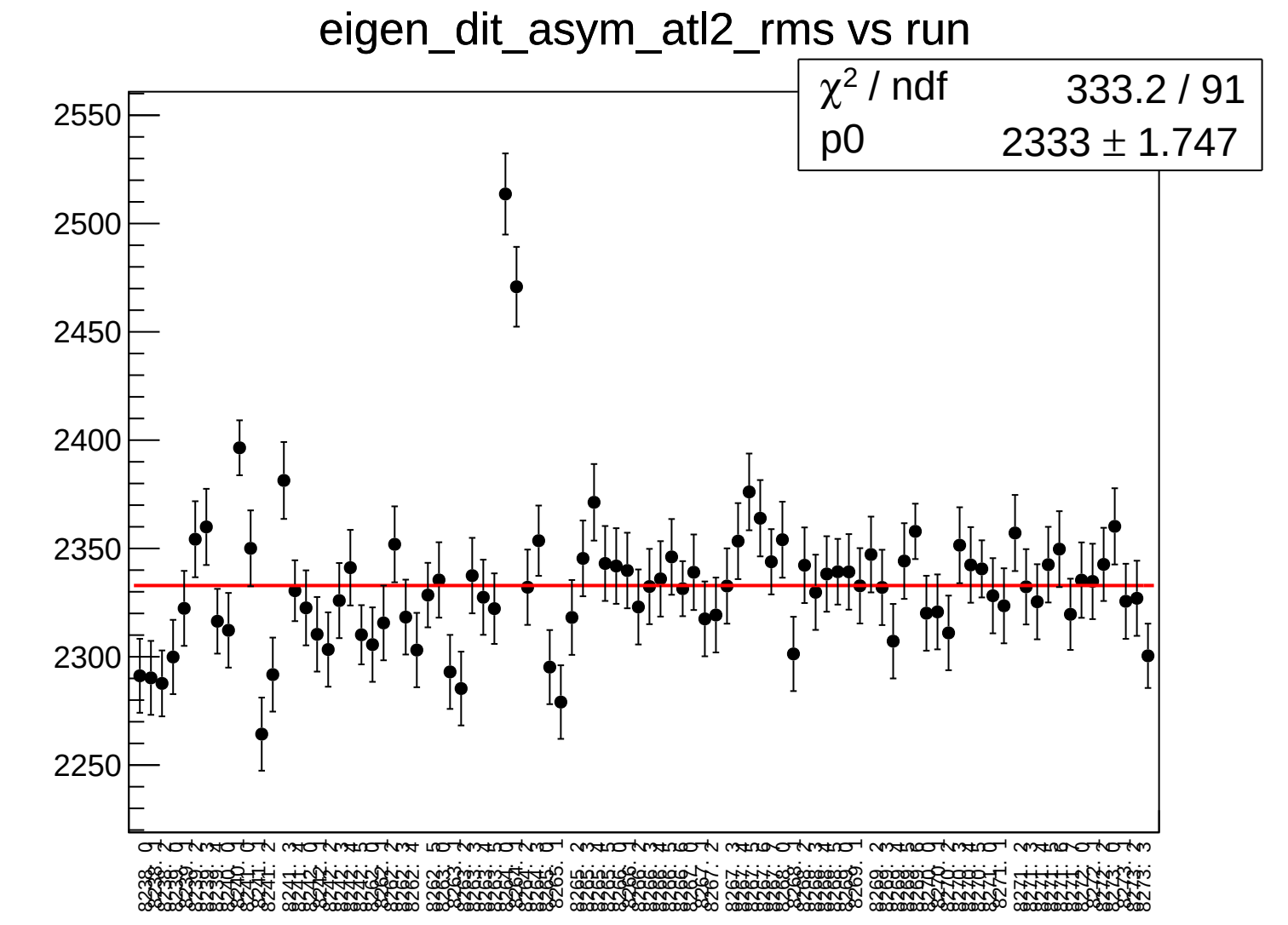

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 70.02 / 91
p0 1.856e+04 ± 1.039e+04
pull
Entries 92
Mean −462.3
Std Dev 0

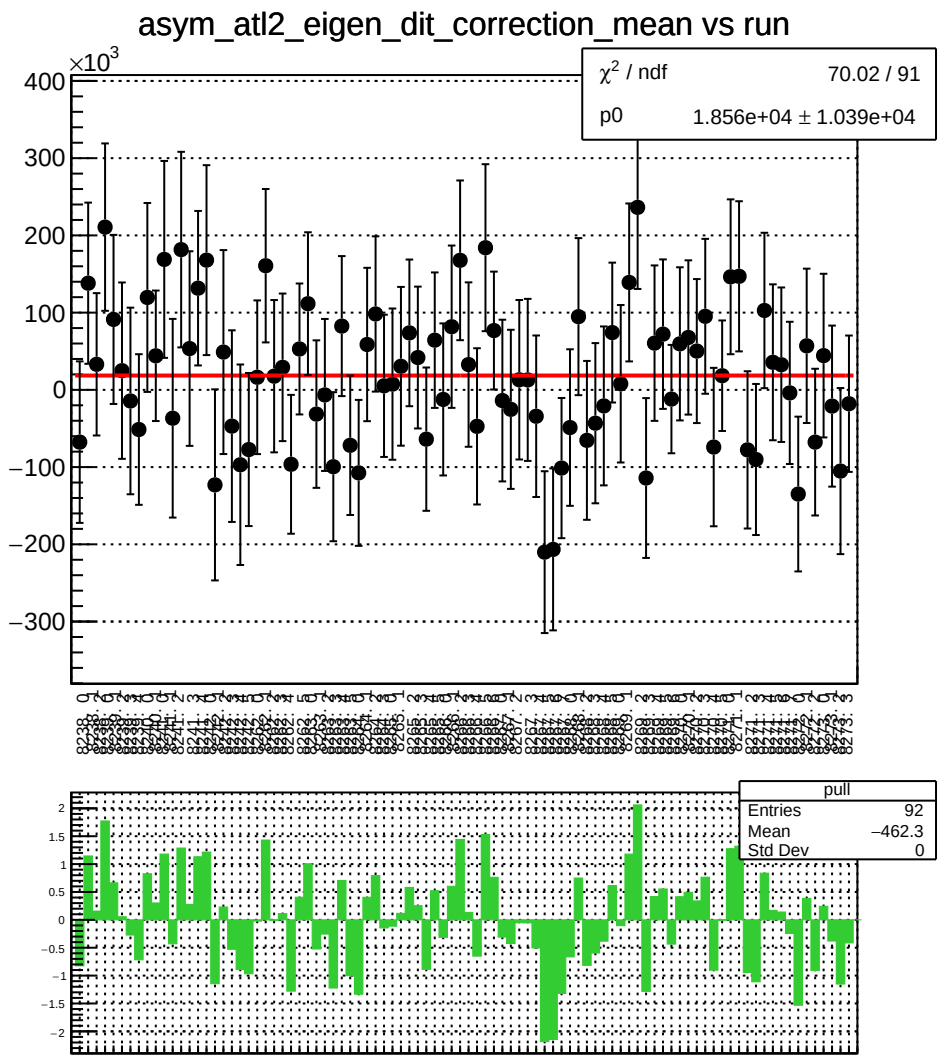

pull1D
Entries 92
Mean 0.006513
Std Dev 0.8724

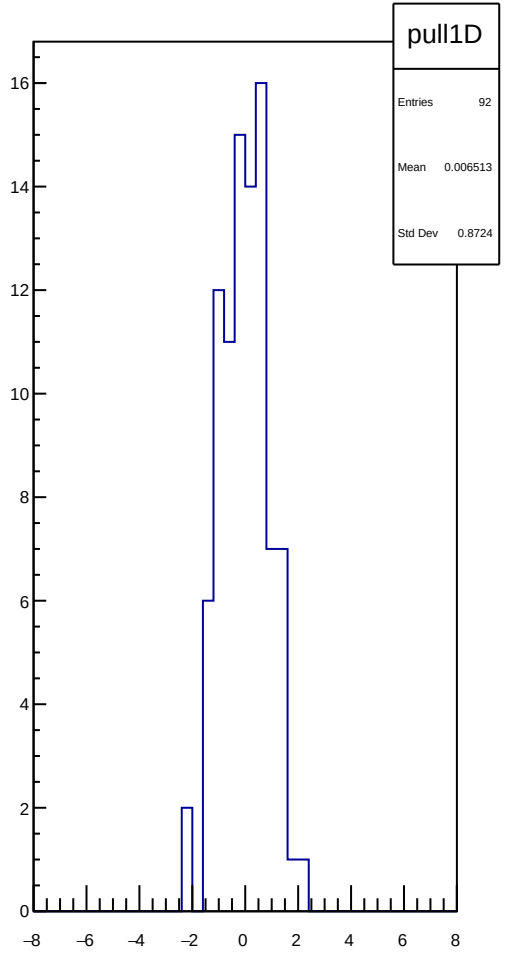

asym_atl2_dit_correction_rms vs run
χ² / ndf 1.35e+04 / 91
p0 9772 ± 7.346
13000
12000
11000
10000
9000
8000

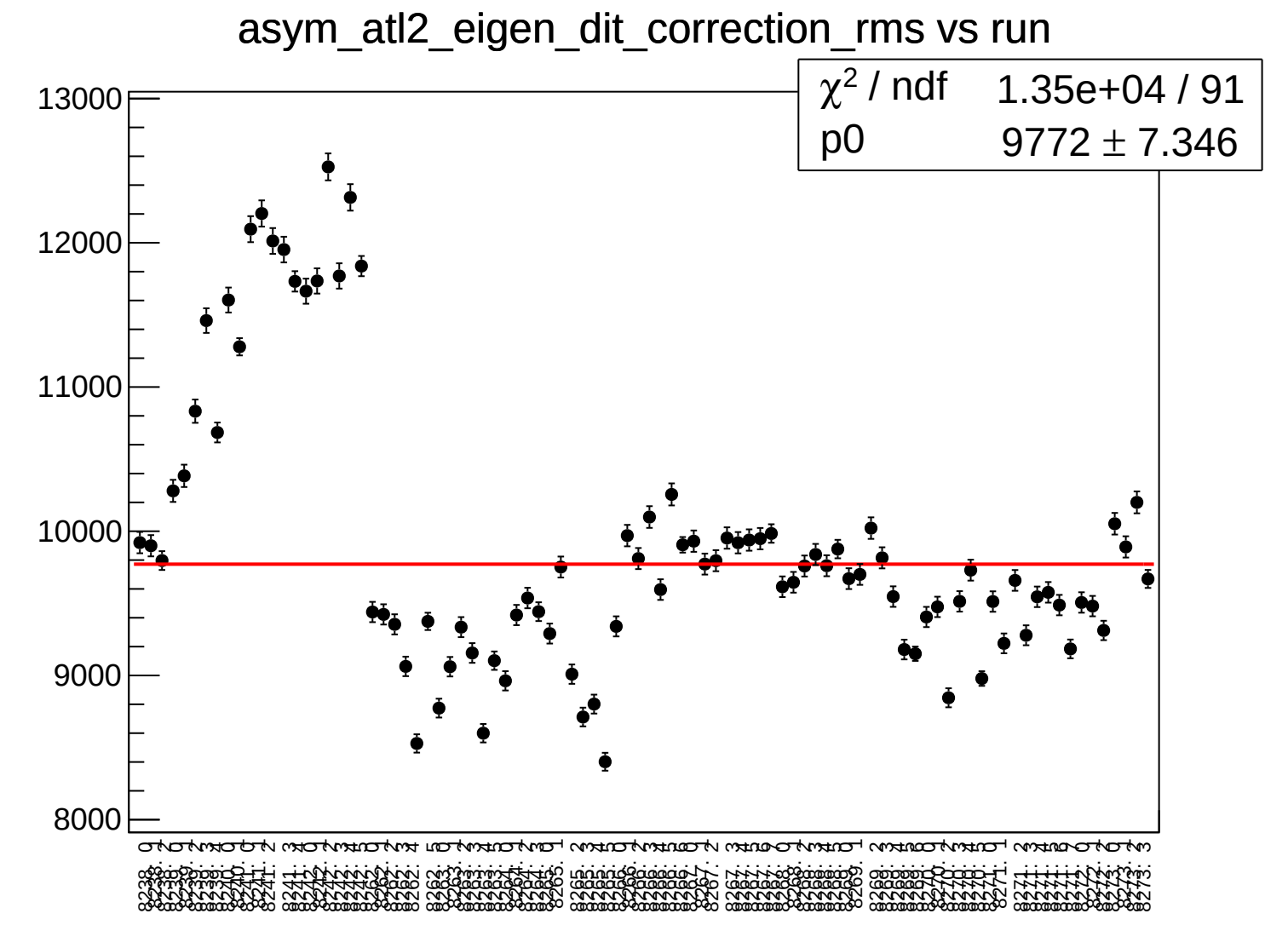

eigen_dit_asym_atl2_mean vs run
×10^3
χ² / ndf 86.11 / 91
p0 576.8 ± 2471
pull
Entries 92
Mean 259.2
Std Dev 0

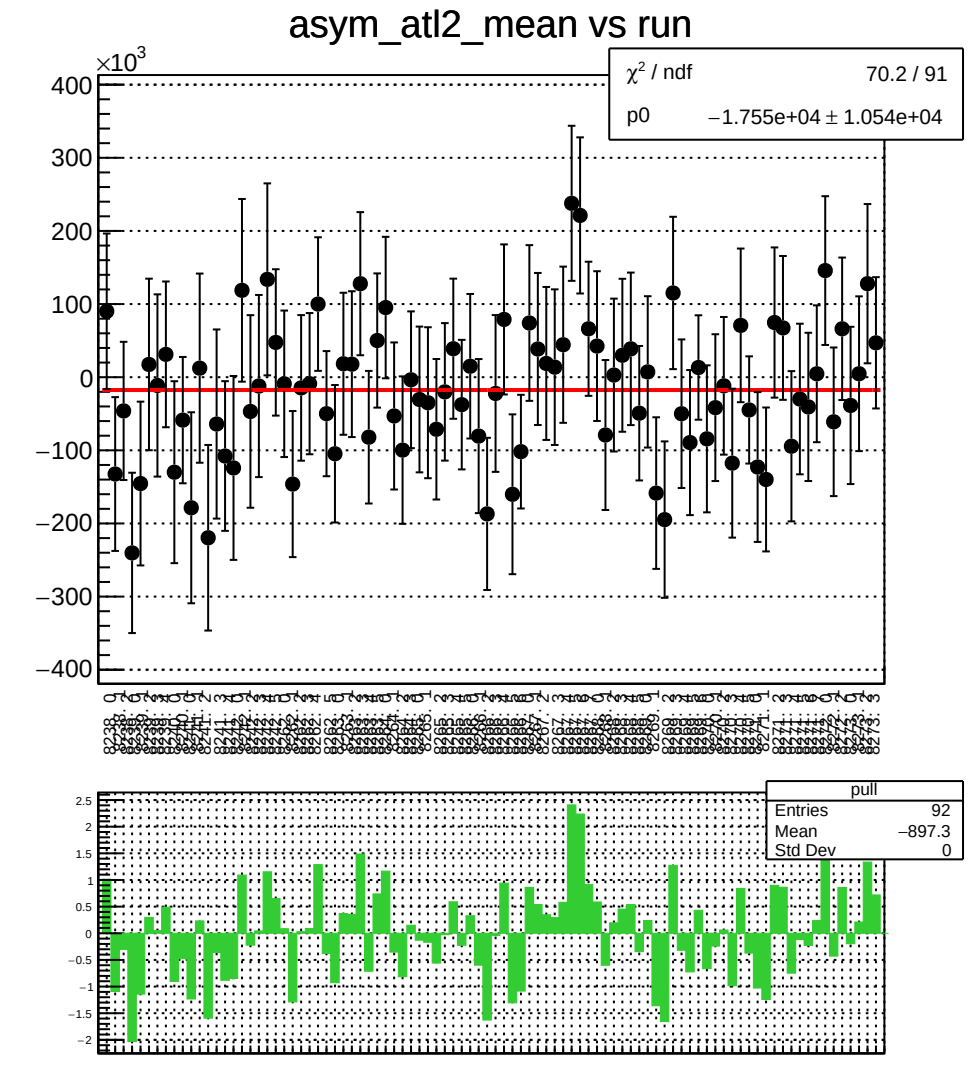

pull1D
Entries 92
Mean 0.01759
Std Dev 0.9673

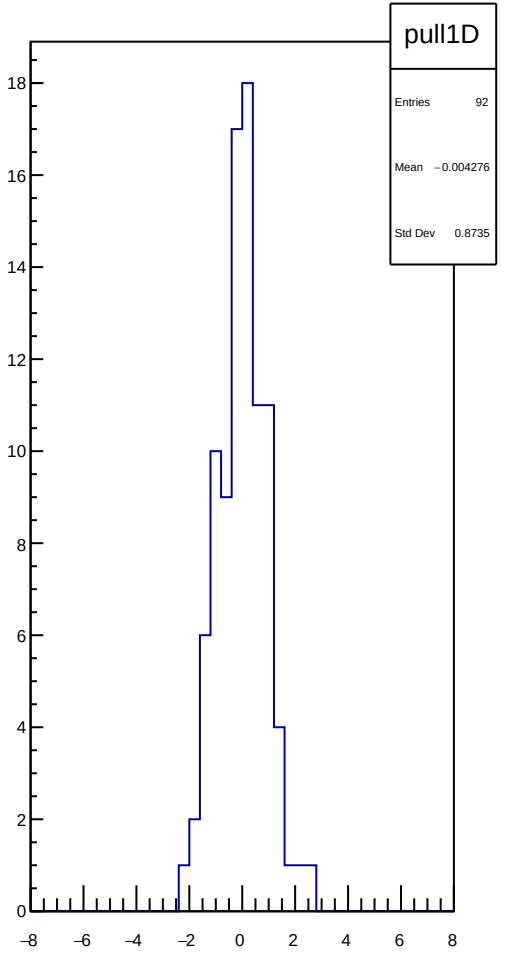

eigen_dit_asym_atl2_rms vs run
$\chi^2$ / ndf 333.2 / 91
p0 2333 ± 1.747
2550
2500
2450
2400
2350
2300
2250

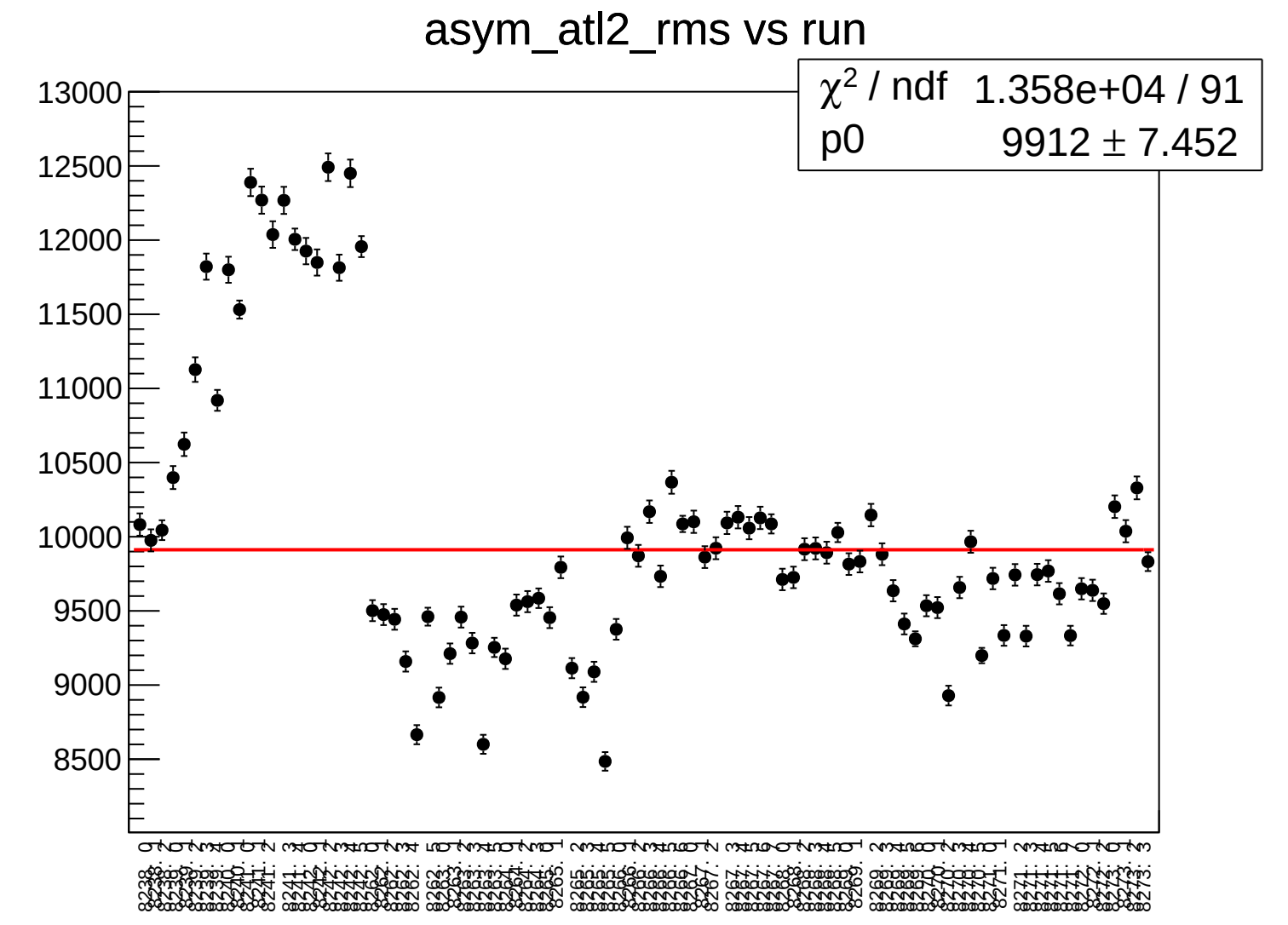

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 70.02 / 91
p0 1.856e+04 ± 1.039e+04
pull
Entries 92
Mean −462.3
Std Dev 0

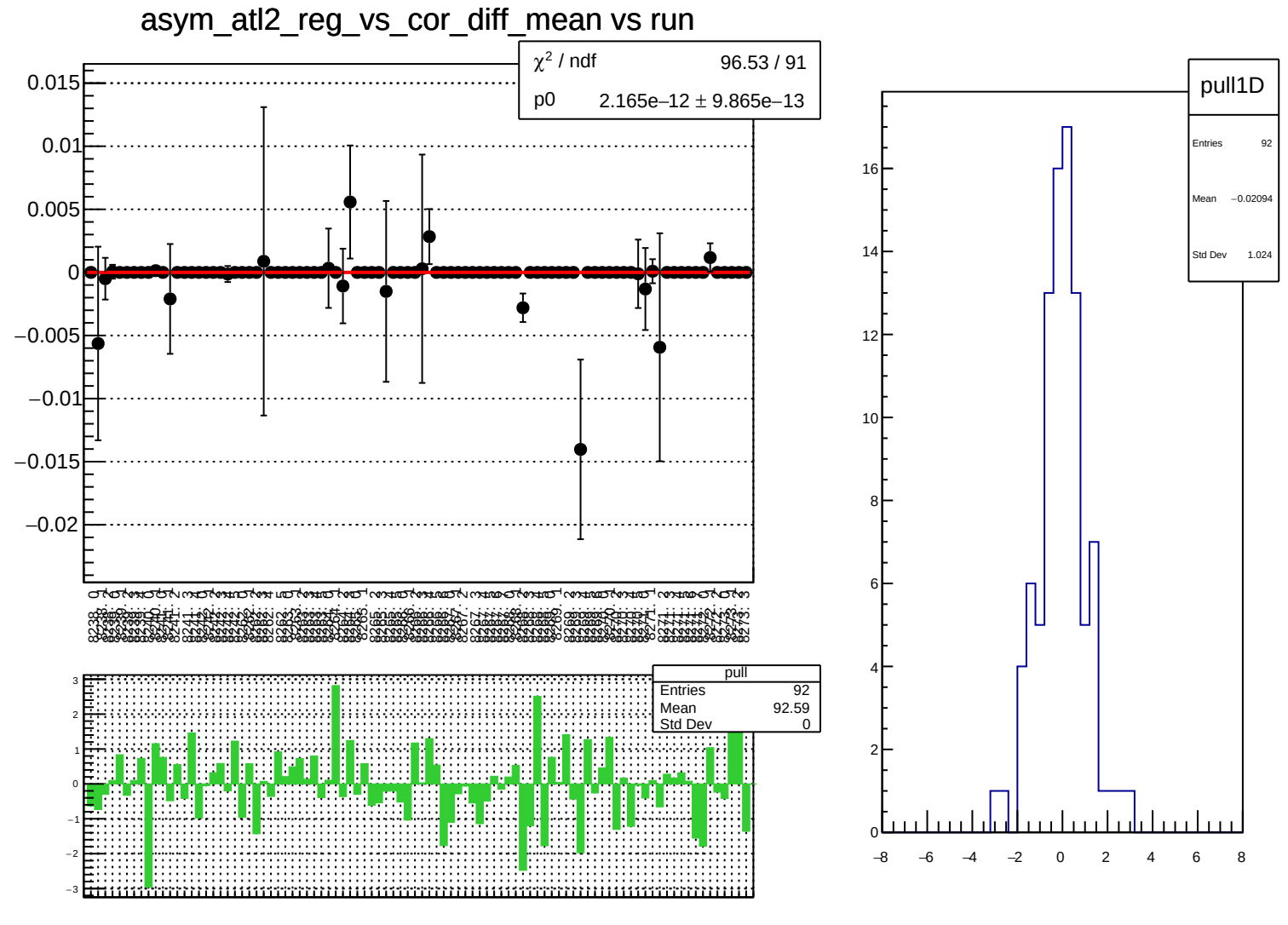

pull1D
Entries 92
Mean 0.006513
Std Dev 0.8724

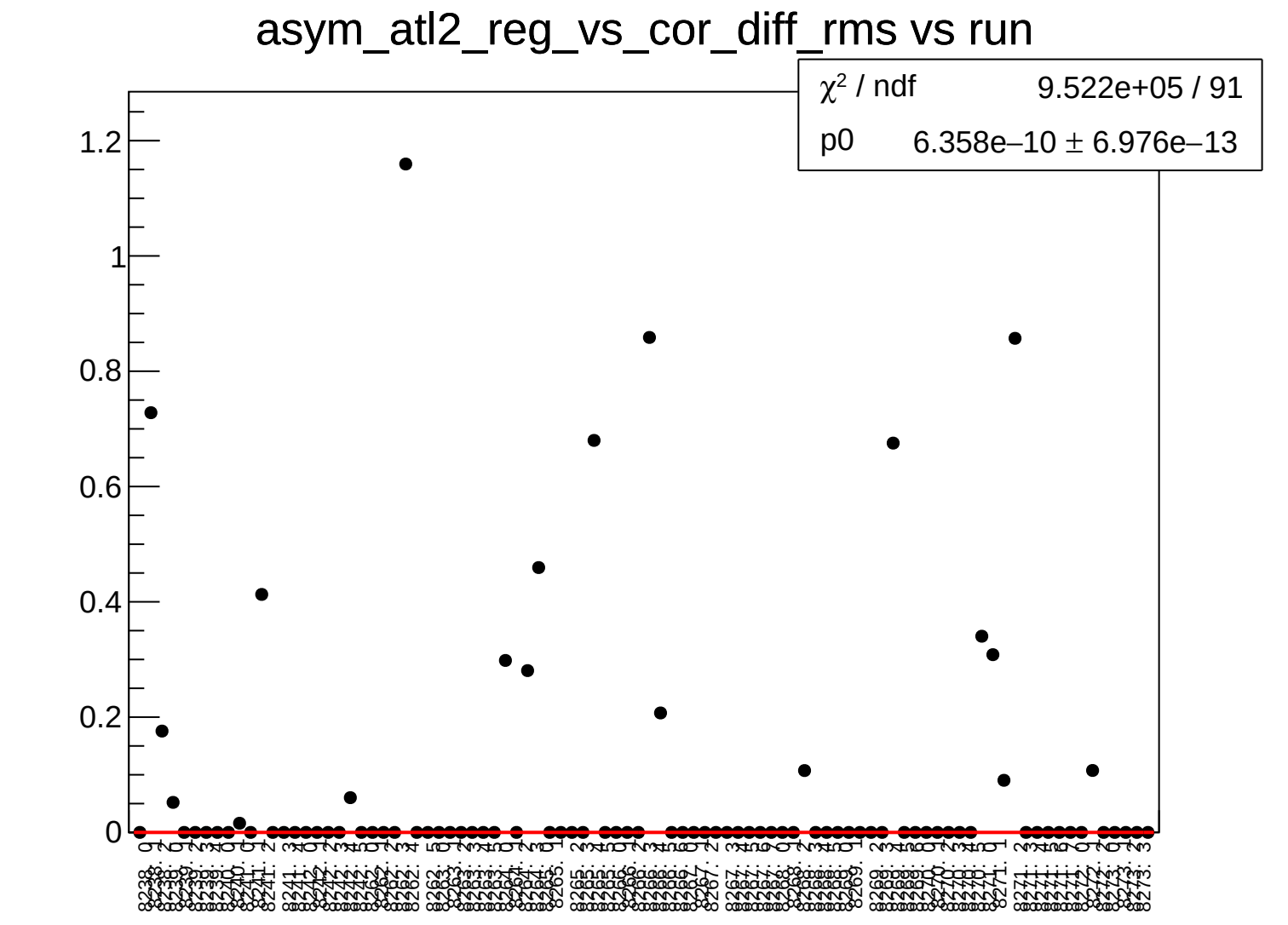

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 1.35e+04 / 91
p0 9772 ± 7.346
13000
12000
11000
10000
9000
8000

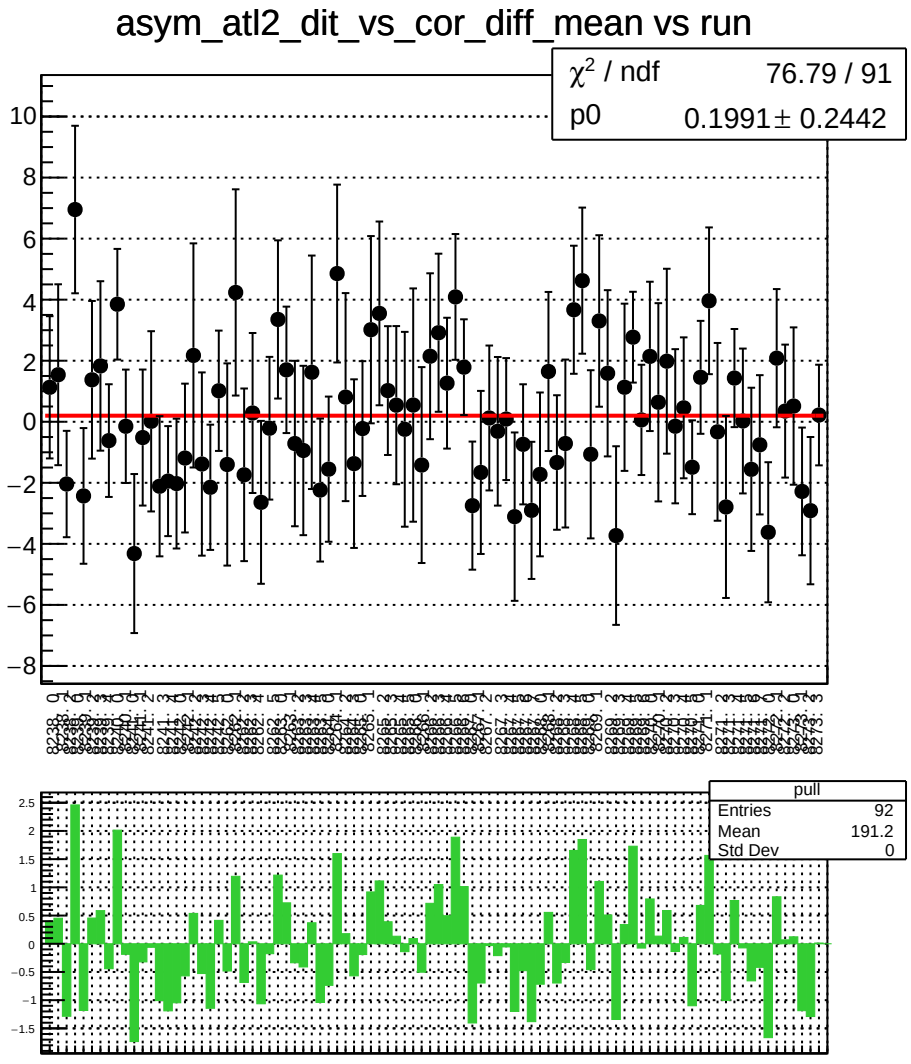

asym_atl2_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
−400
χ² / ndf 70.2 / 91
p0 −1.755e+04 ± 1.054e+04
pull
Entries 92
Mean −897.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

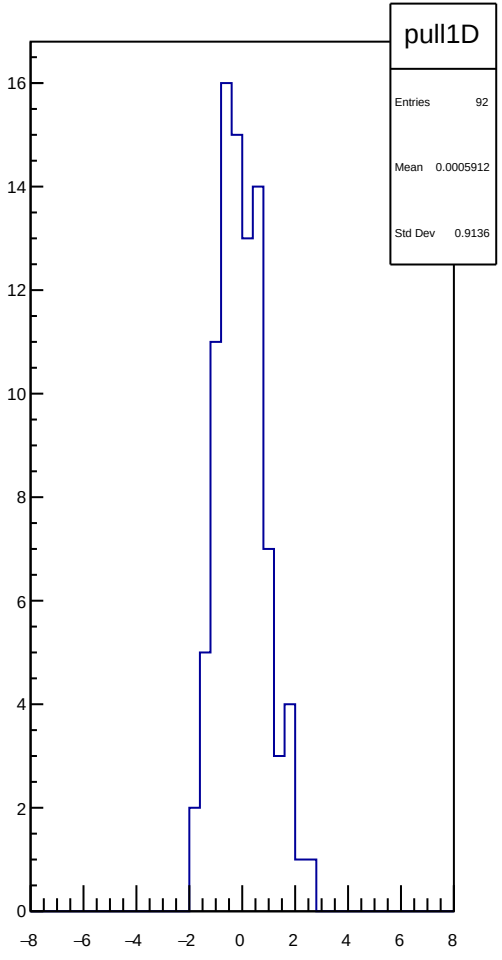

pull1D
Entries 92
Mean −0.004276
Std Dev 0.8735
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

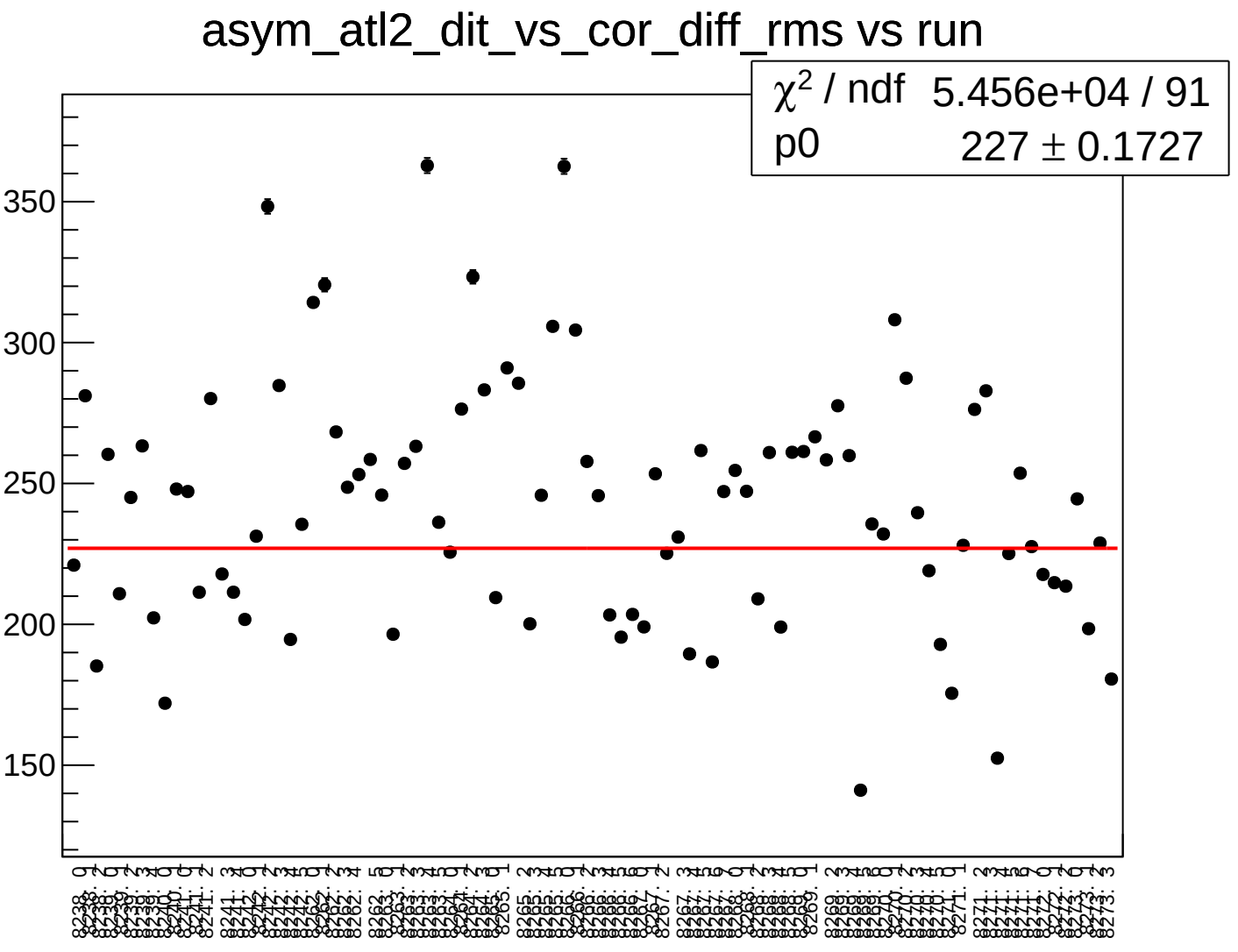

asym_atl2_rms vs run
$\chi^2$ / ndf 1.358e+04 / 91
p0 9912 ± 7.452
13000
12500
12000
11500
11000
10500
10000
9500
9000
8500

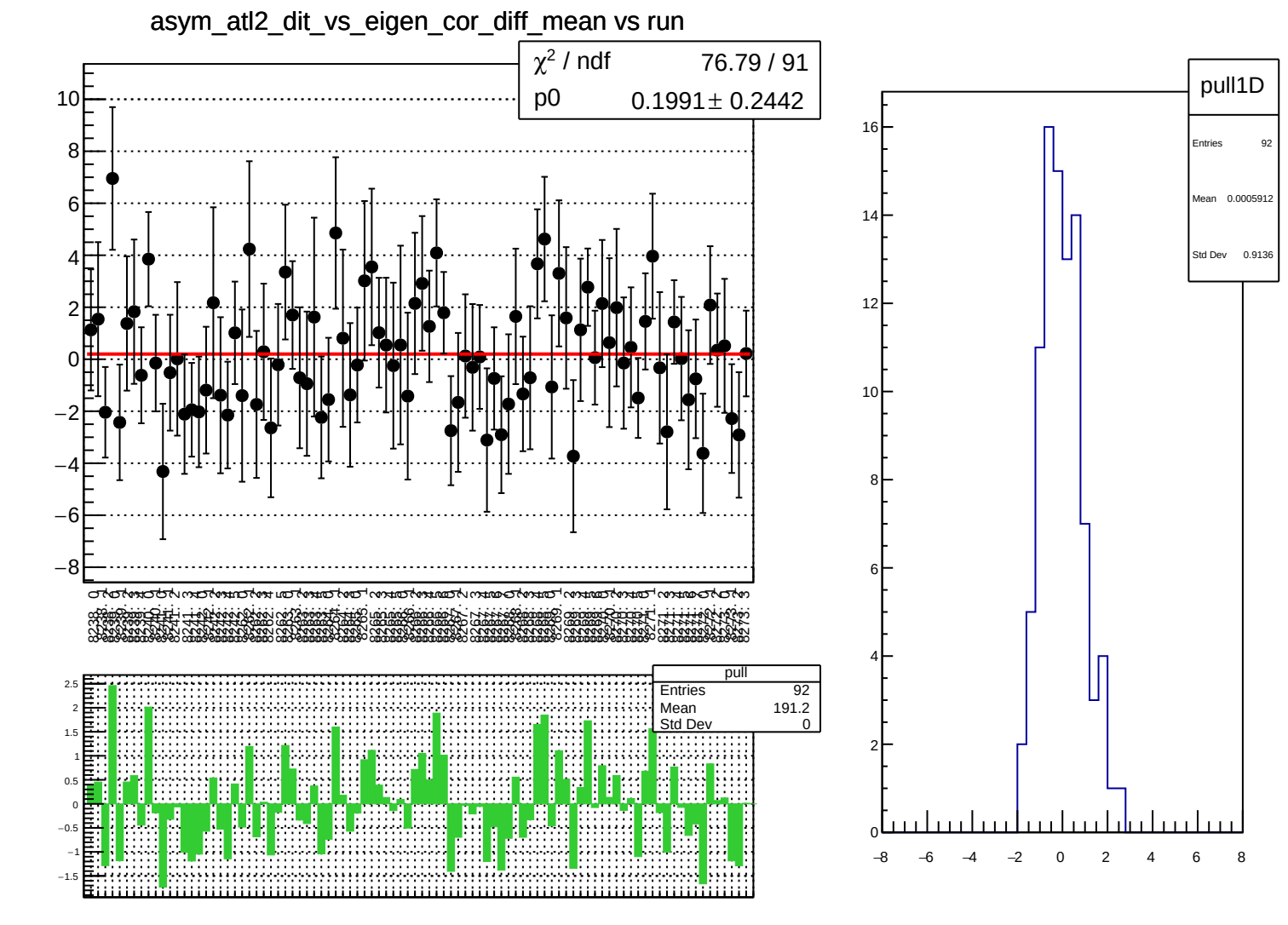

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 96.53 / 91
p0 2.165e−12 ± 9.865e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 92
Mean 92.59
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.02094
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

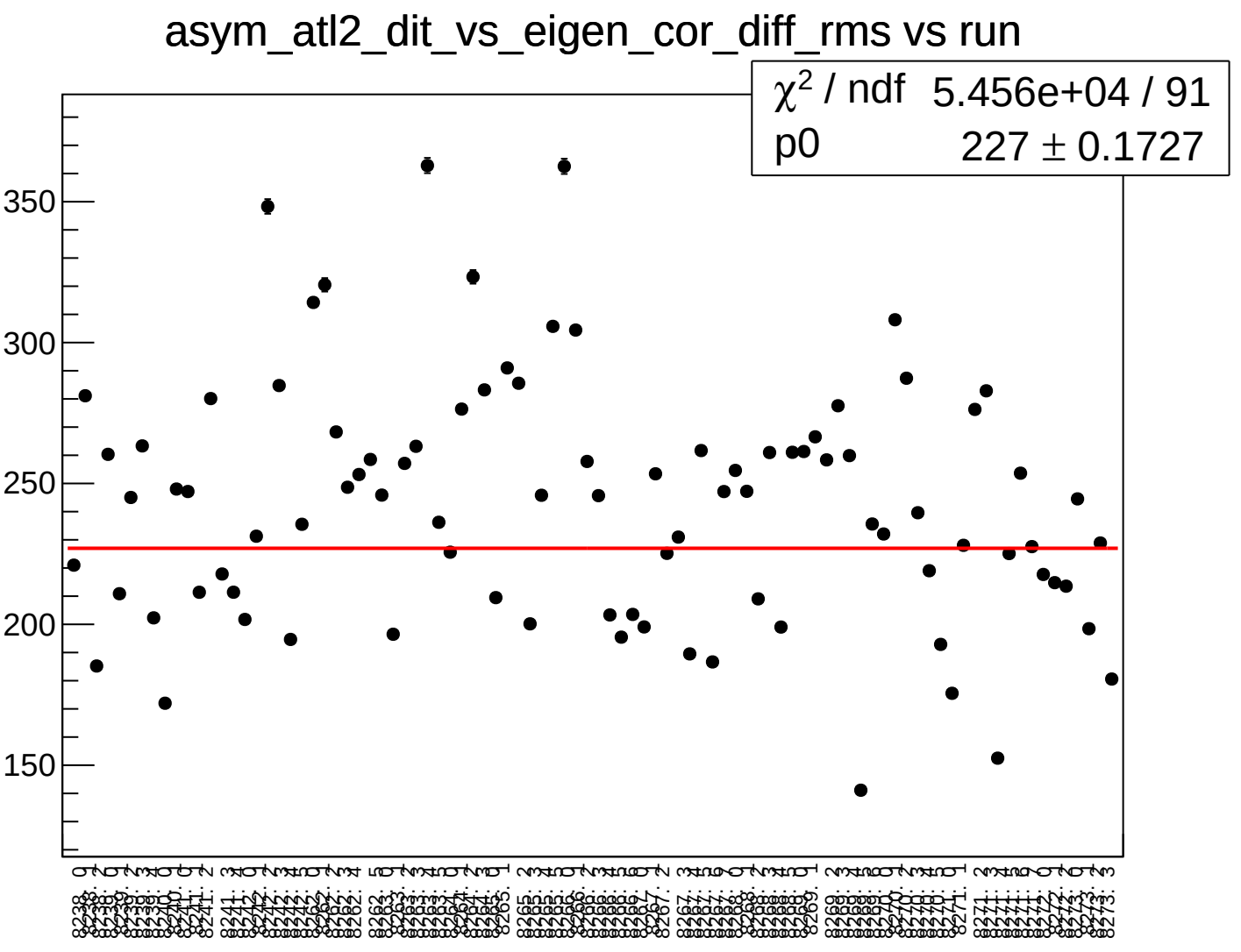

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.522e+05 / 91
p0 6.358e−10 ± 6.976e−13
1.2
1
0.8
0.6
0.4
0.2
0

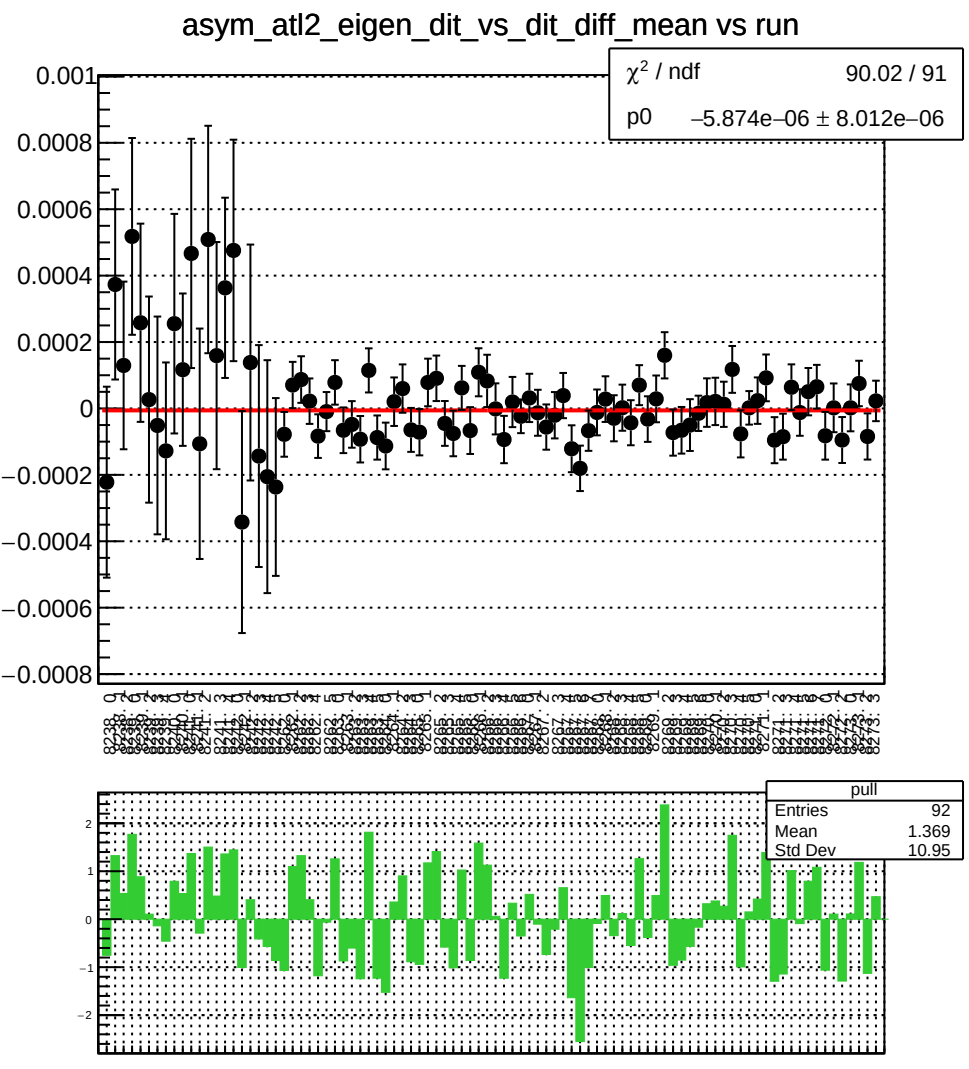

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 76.79 / 91
p0 0.1991 ± 0.2442
pull
Entries 92
Mean 191.2
Std Dev 0

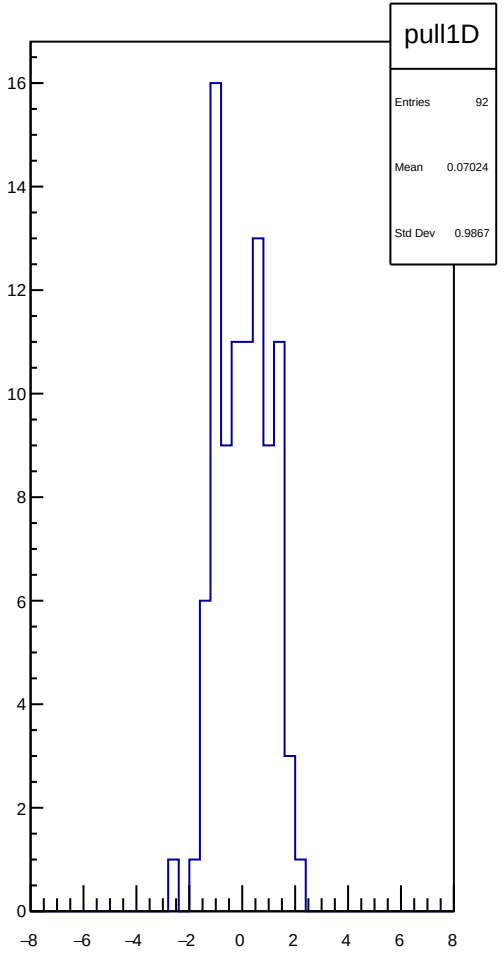

pull1D
Entries 92
Mean 0.0005912
Std Dev 0.9136

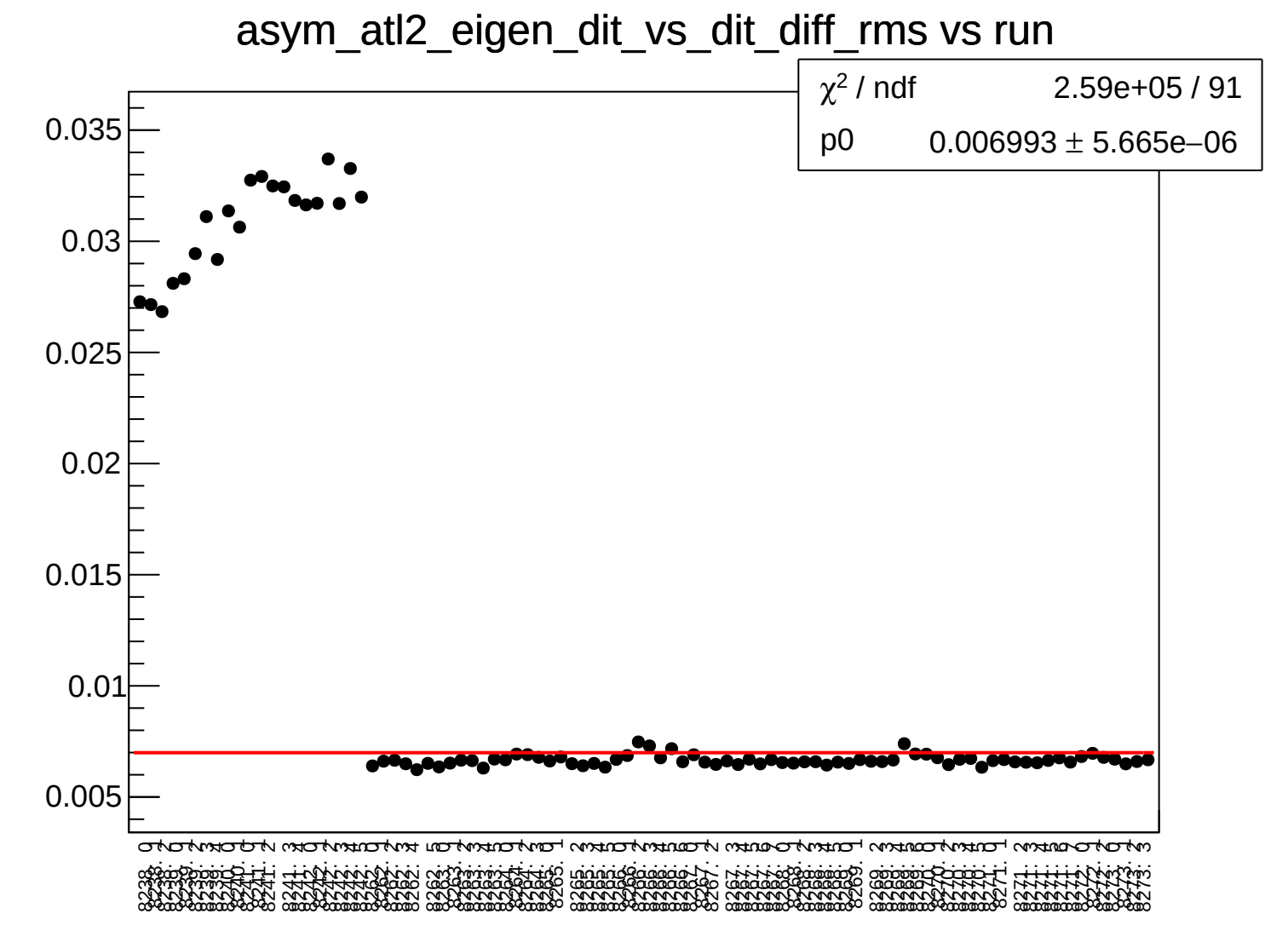

asym_atl2_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.456e+04 / 91
p0 227 ± 0.1727
350
300
250
200
150

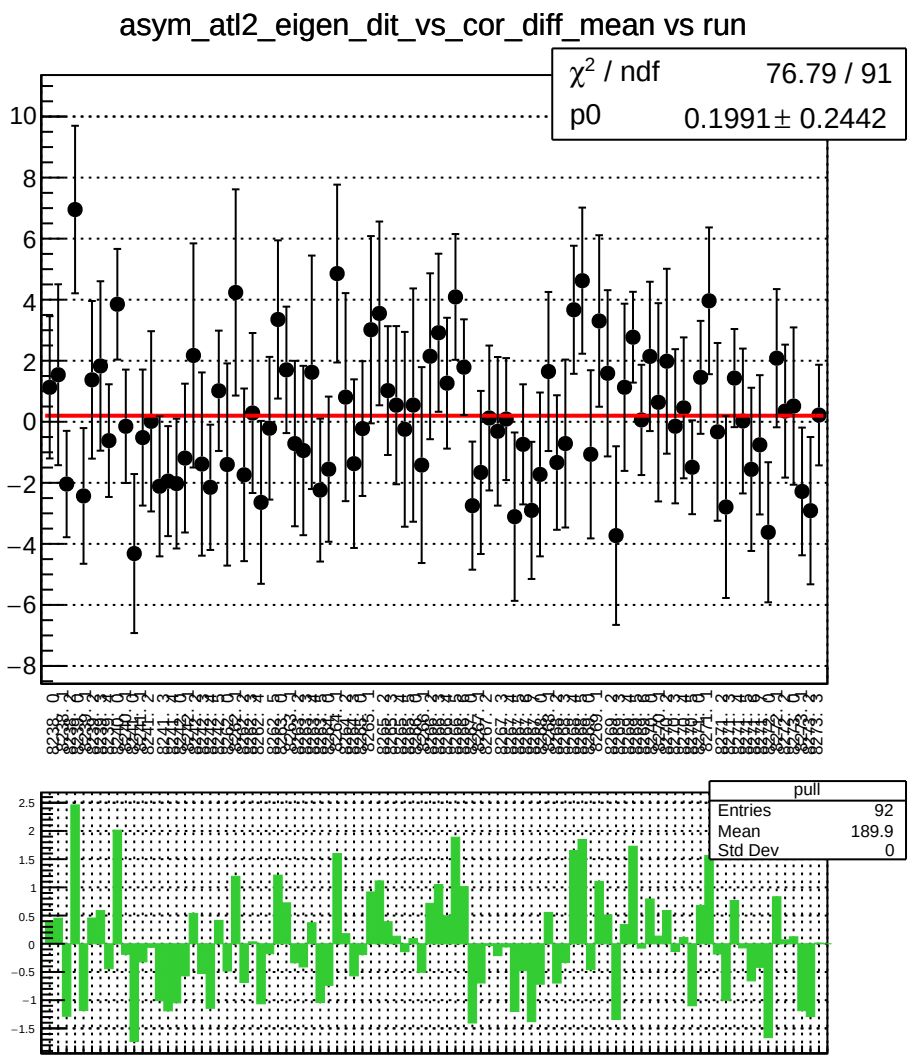

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.79 / 91
p0 0.1991 ± 0.2442
pull
Entries 92
Mean 191.2
Std Dev 0
pull1D
Entries 92
Mean 0.0005912
Std Dev 0.9136

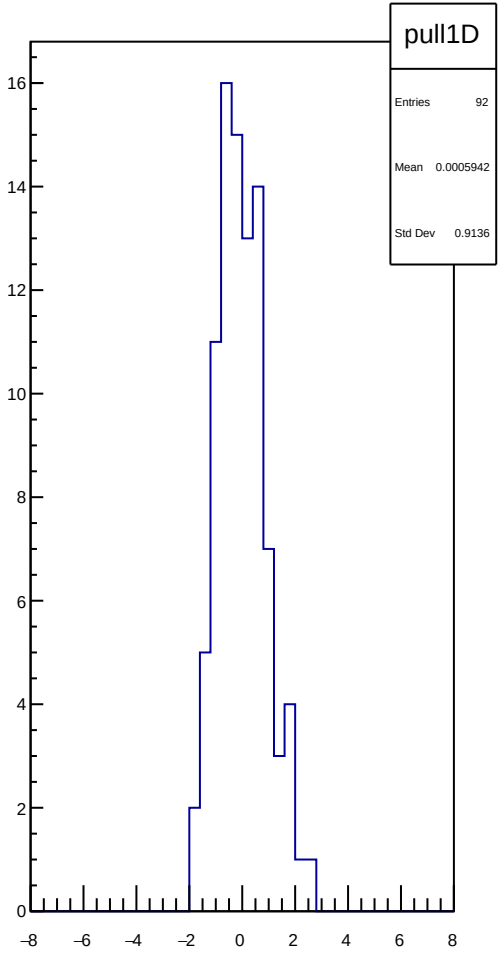

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 5.456e+04 / 91
p0 227 ± 0.1727
350
300
250
200
150

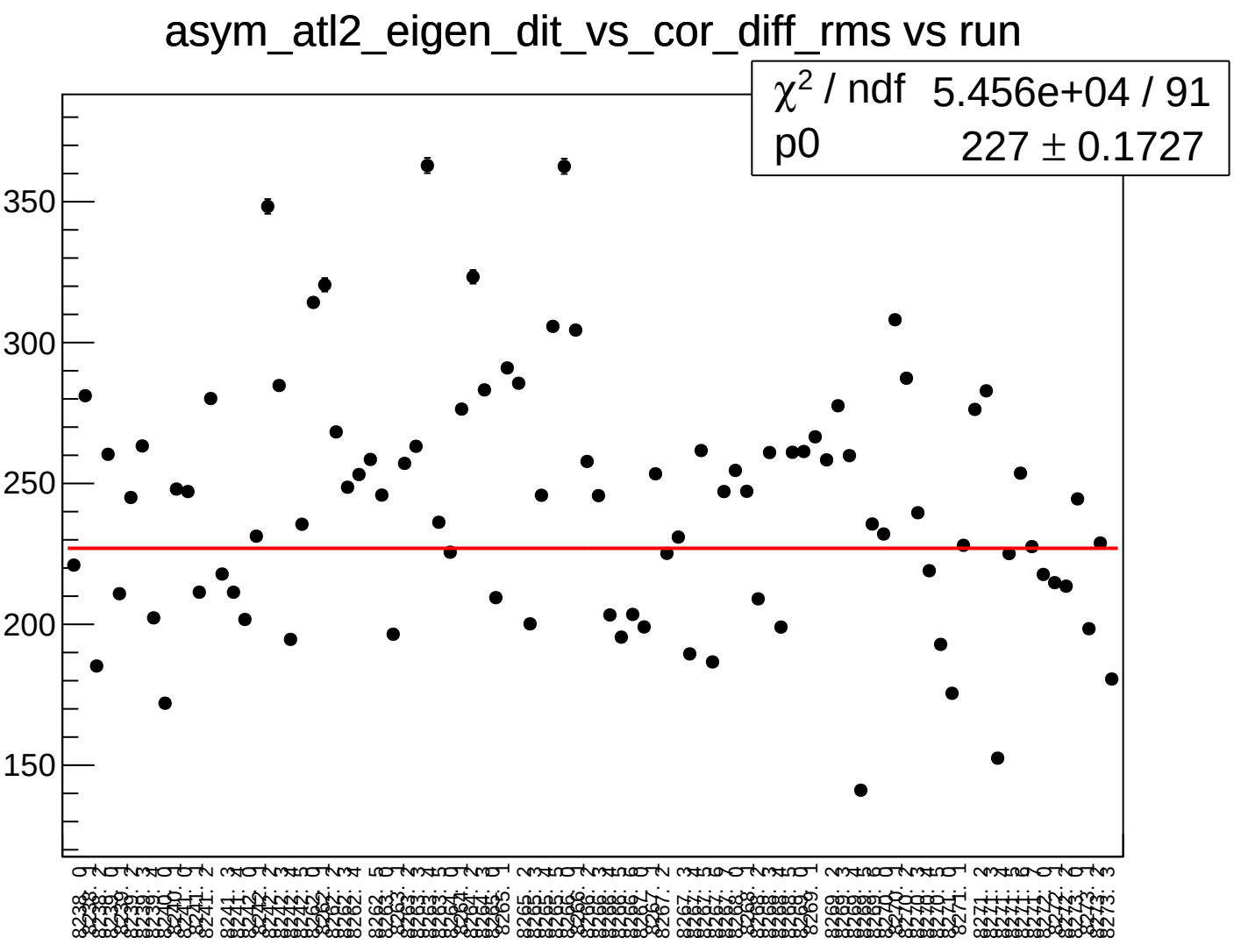

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 90.02 / 91
p0 −5.874e−06 ± 8.012e−06
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 92
Mean 1.369
Std Dev 10.95
2
1
0
−1
−2

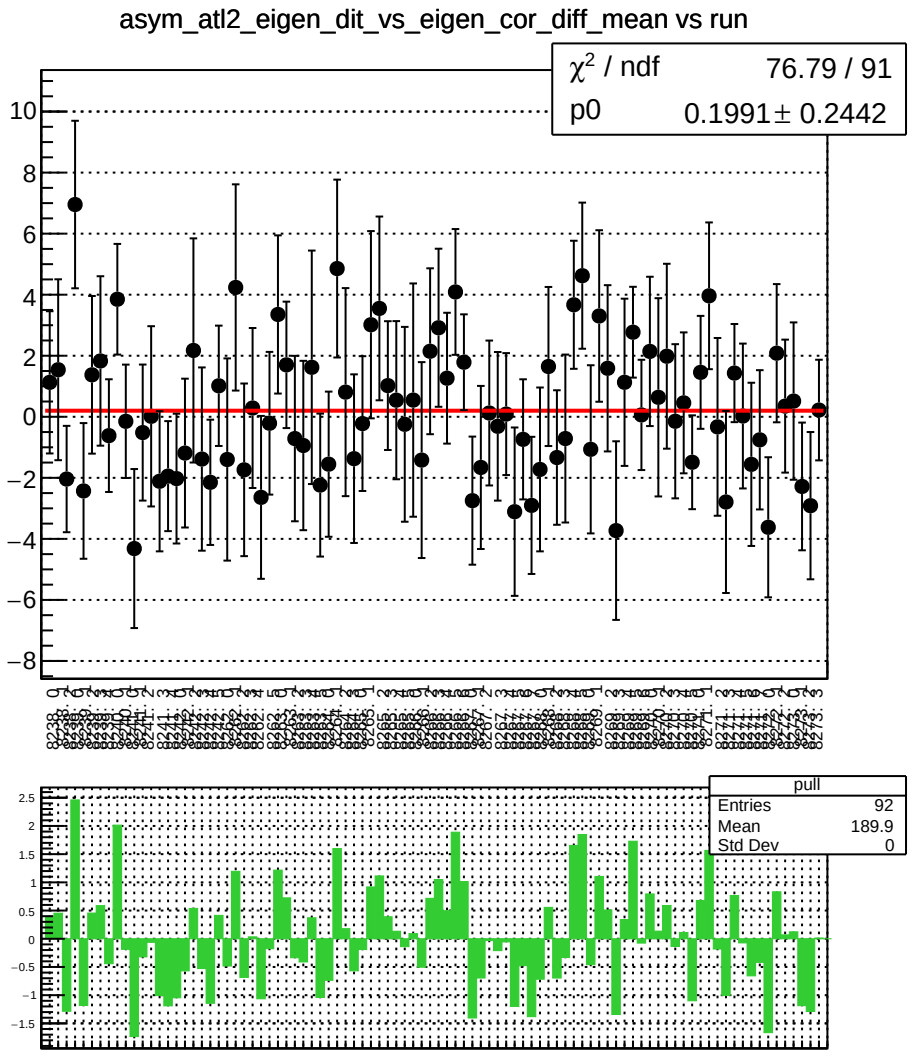

pull1D
Entries 92
Mean 0.07024
Std Dev 0.9867
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

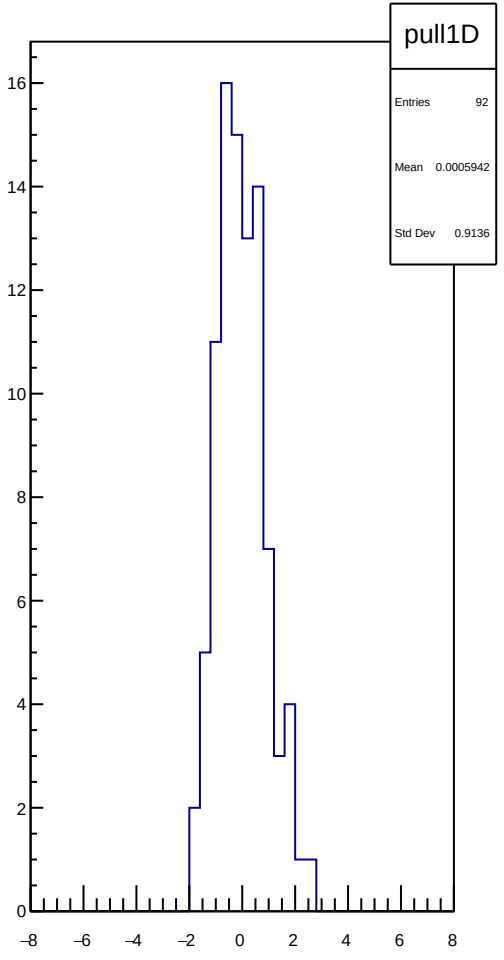

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.59e+05 / 91
p0 0.006993 ± 5.665e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

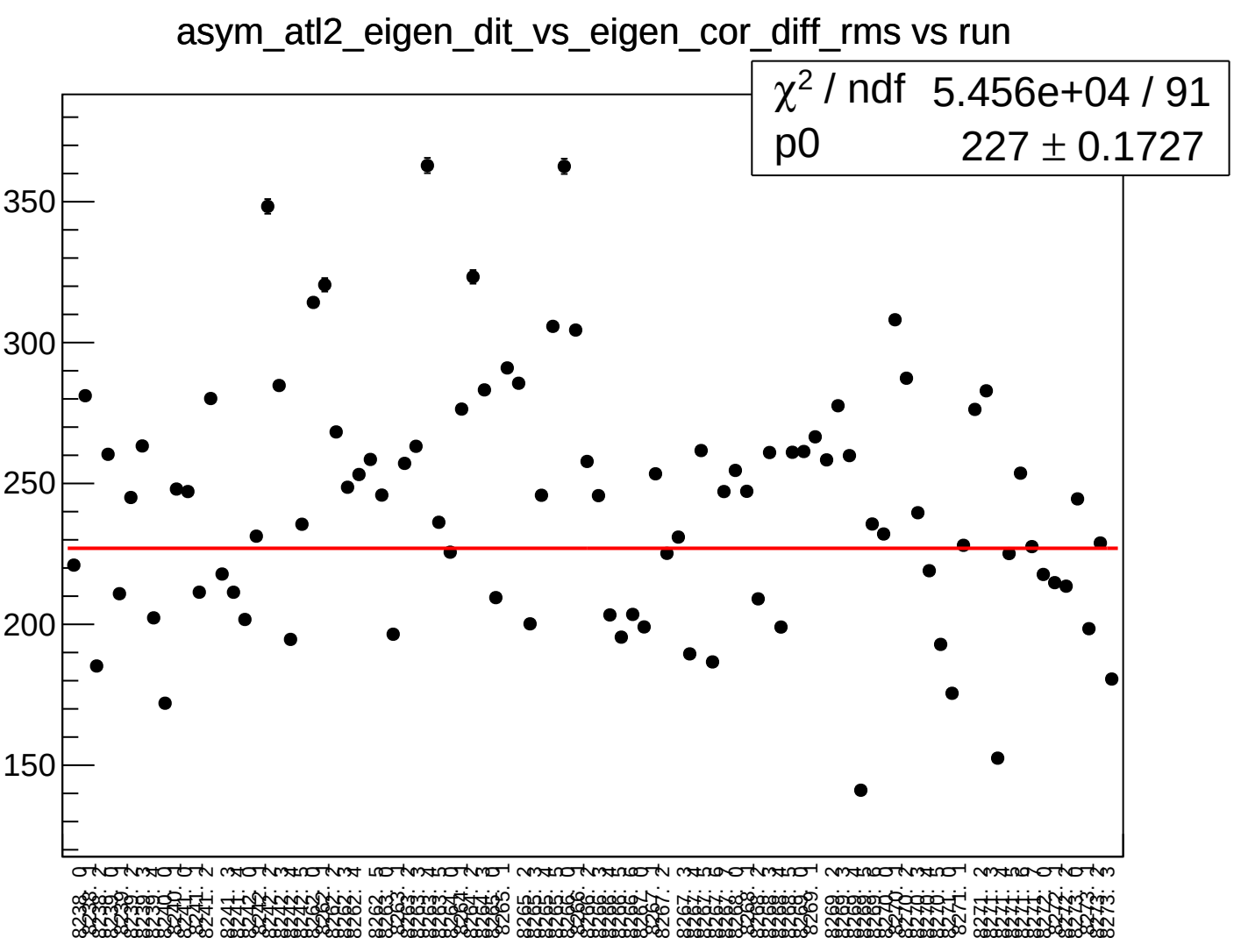

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.79 / 91
p0 0.1991 ± 0.2442
pull
Entries 92
Mean 189.9
Std Dev 0

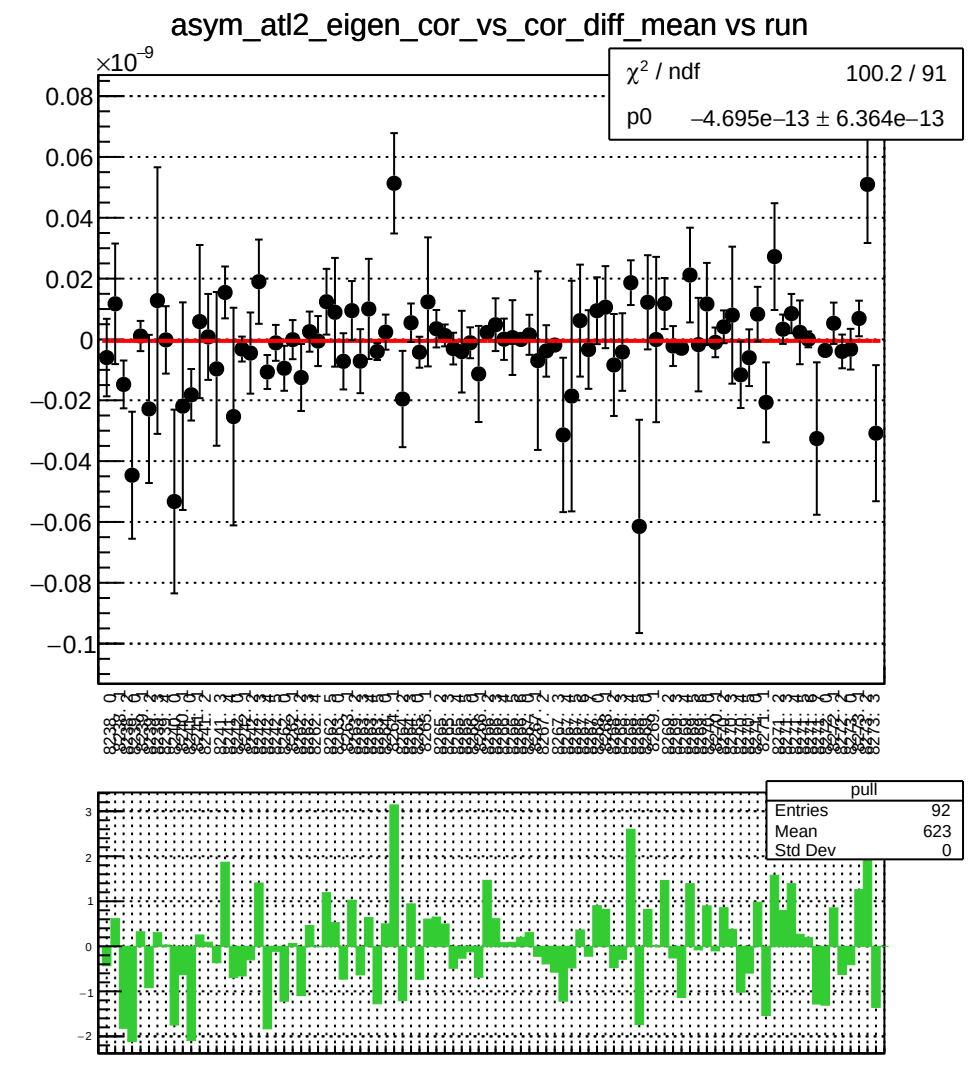

pull1D
Entries 92
Mean 0.0005942
Std Dev 0.9136

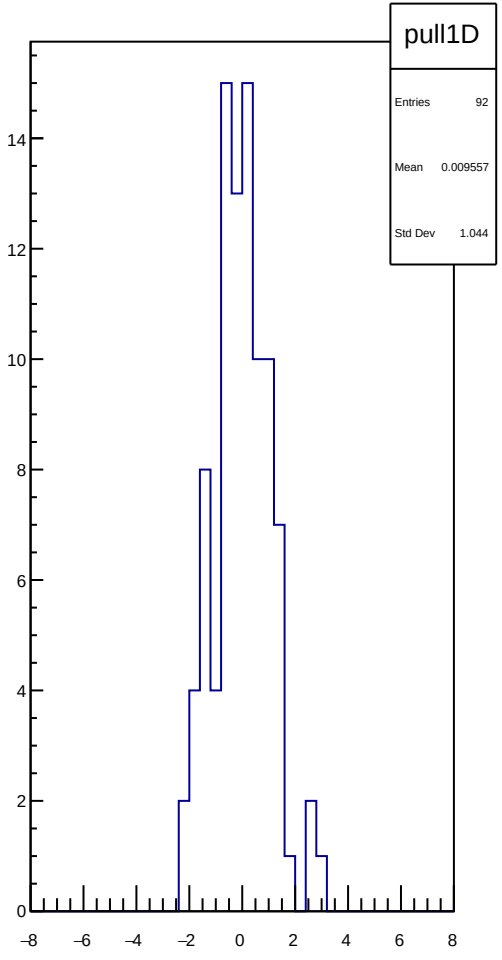

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.456e+04 / 91
p0 227 ± 0.1727
350
300
250
200
150

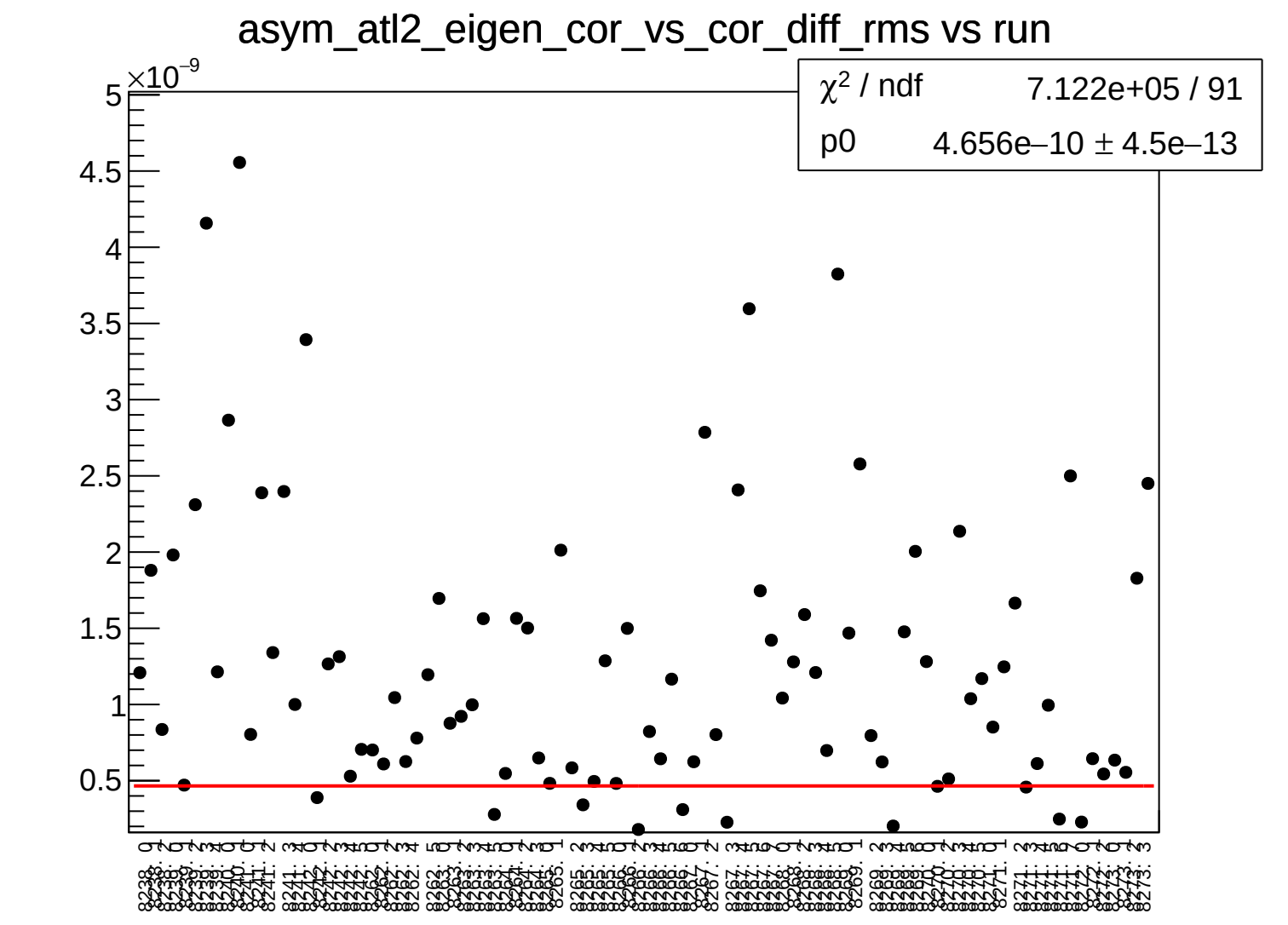

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.79 / 91
p0 0.1991 ± 0.2442
pull
Entries 92
Mean 189.9
Std Dev 0

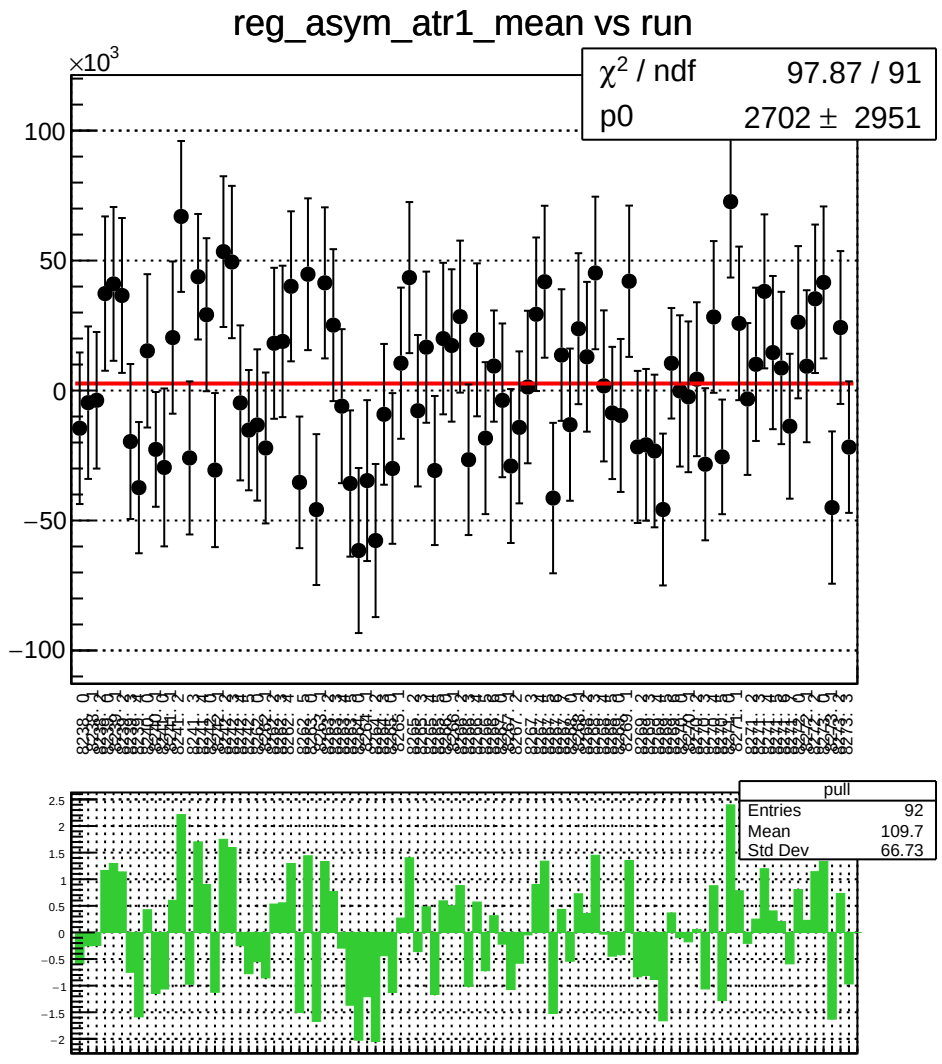

pull1D
Entries 92
Mean 0.0005942
Std Dev 0.9136

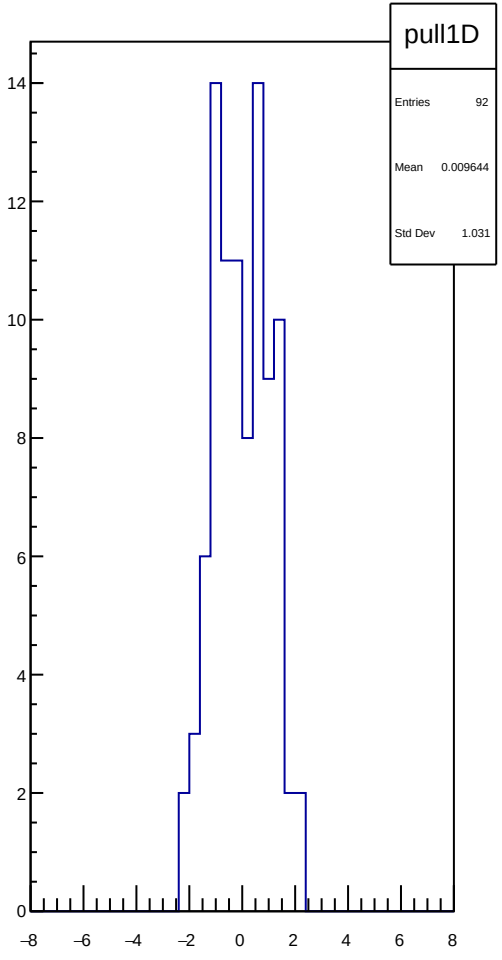

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.456e+04 / 91
p0 227 ± 0.1727
350
300
250
200
150

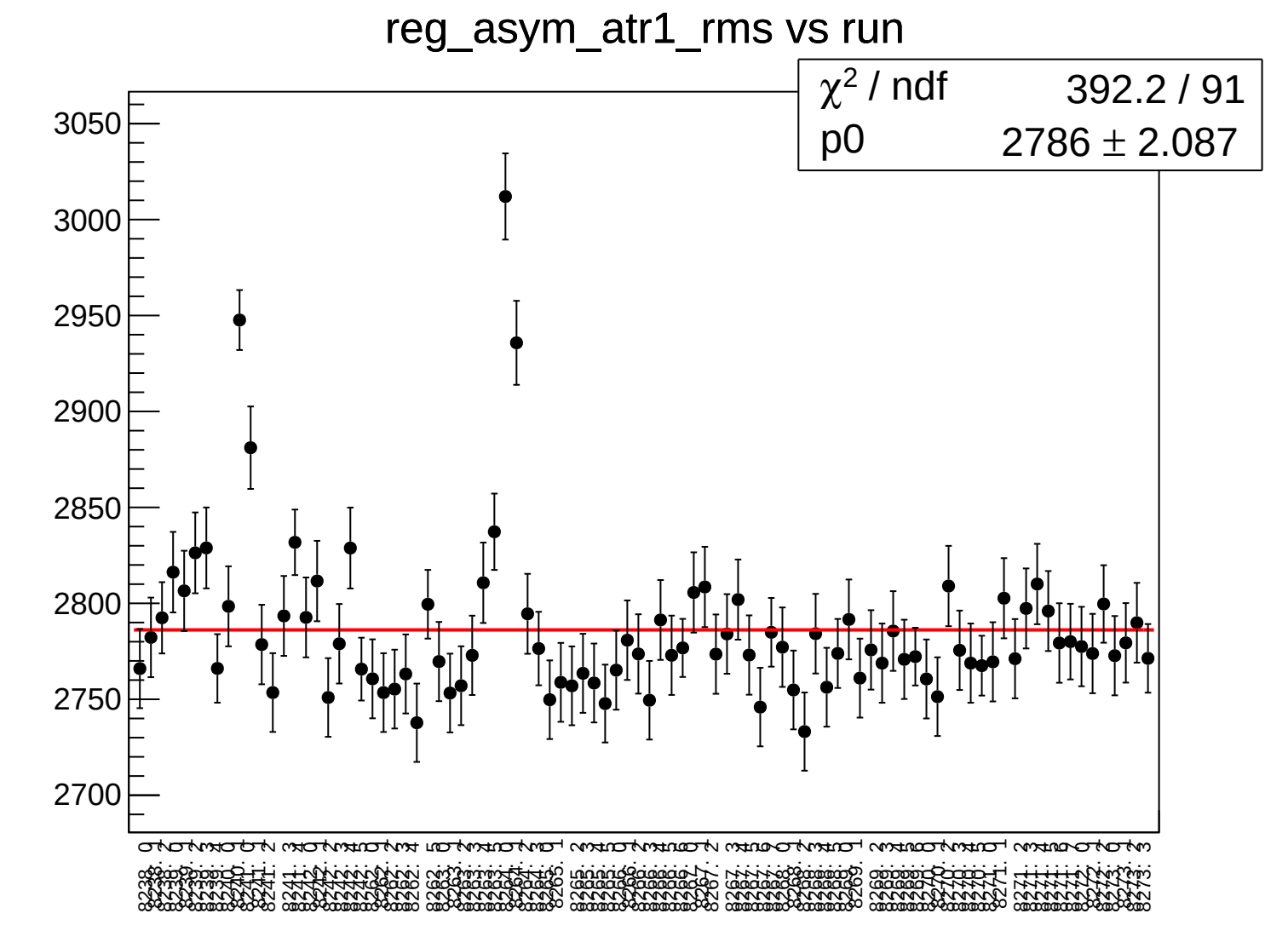

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 100.2 / 91
p0 −4.695e−13 ± 6.364e−13
pull
Entries 92
Mean 623
Std Dev 0

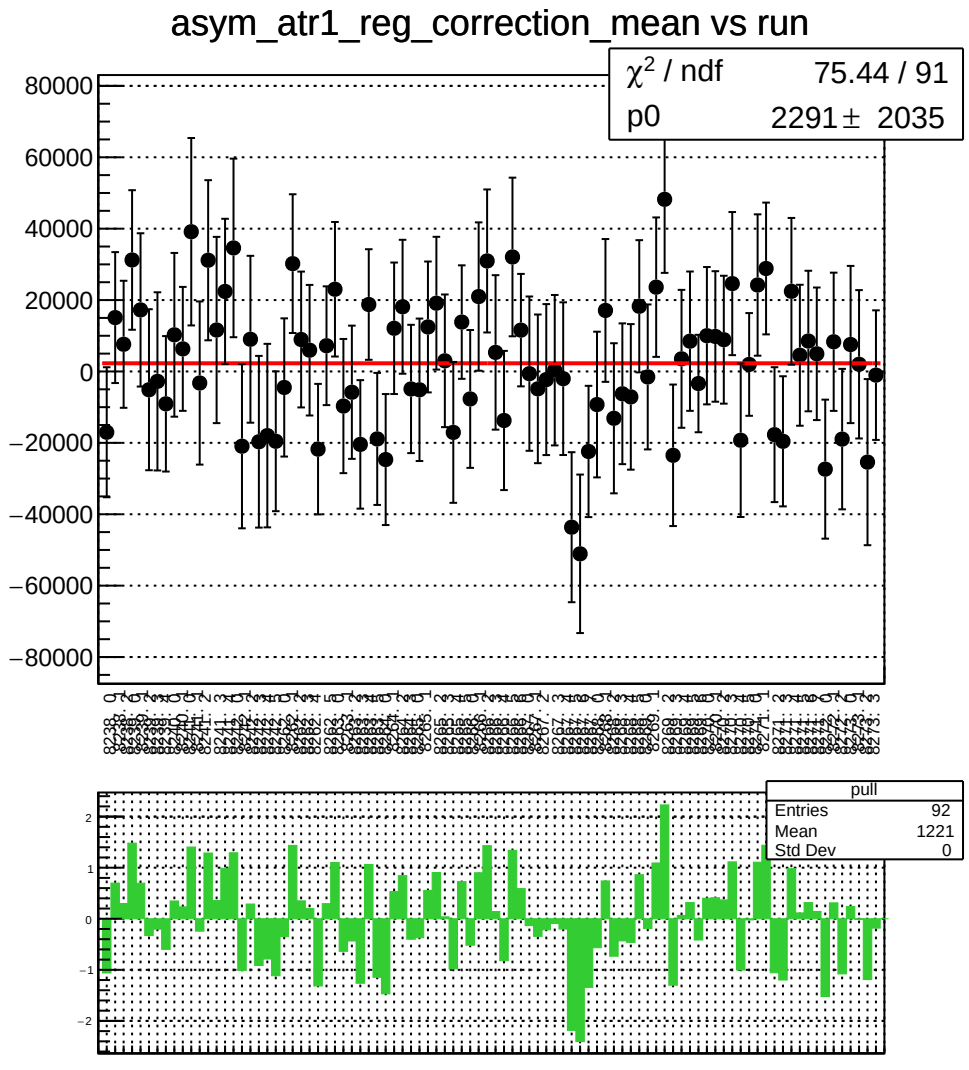

pull1D
Entries 92
Mean 0.009557
Std Dev 1.044

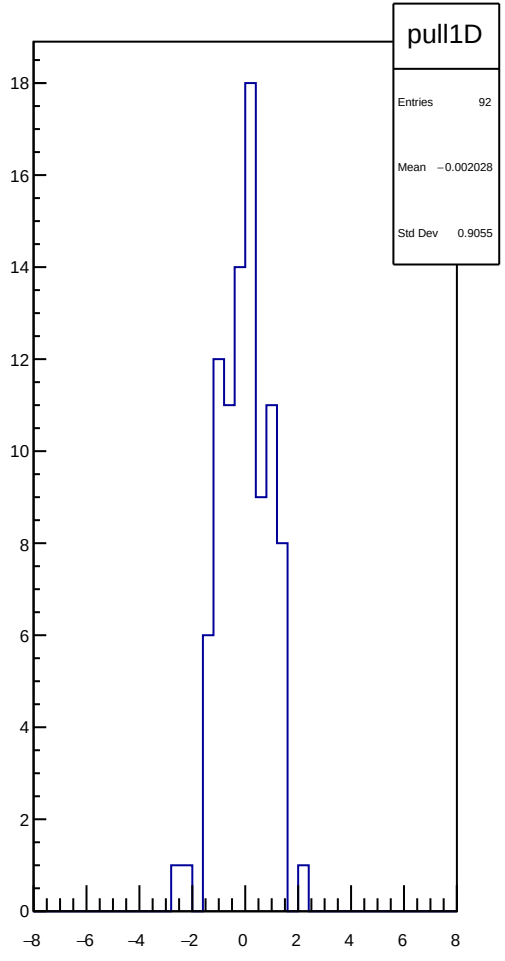

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
χ² / ndf 7.122e+05 / 91
p0 4.656e−10 ± 4.5e−13

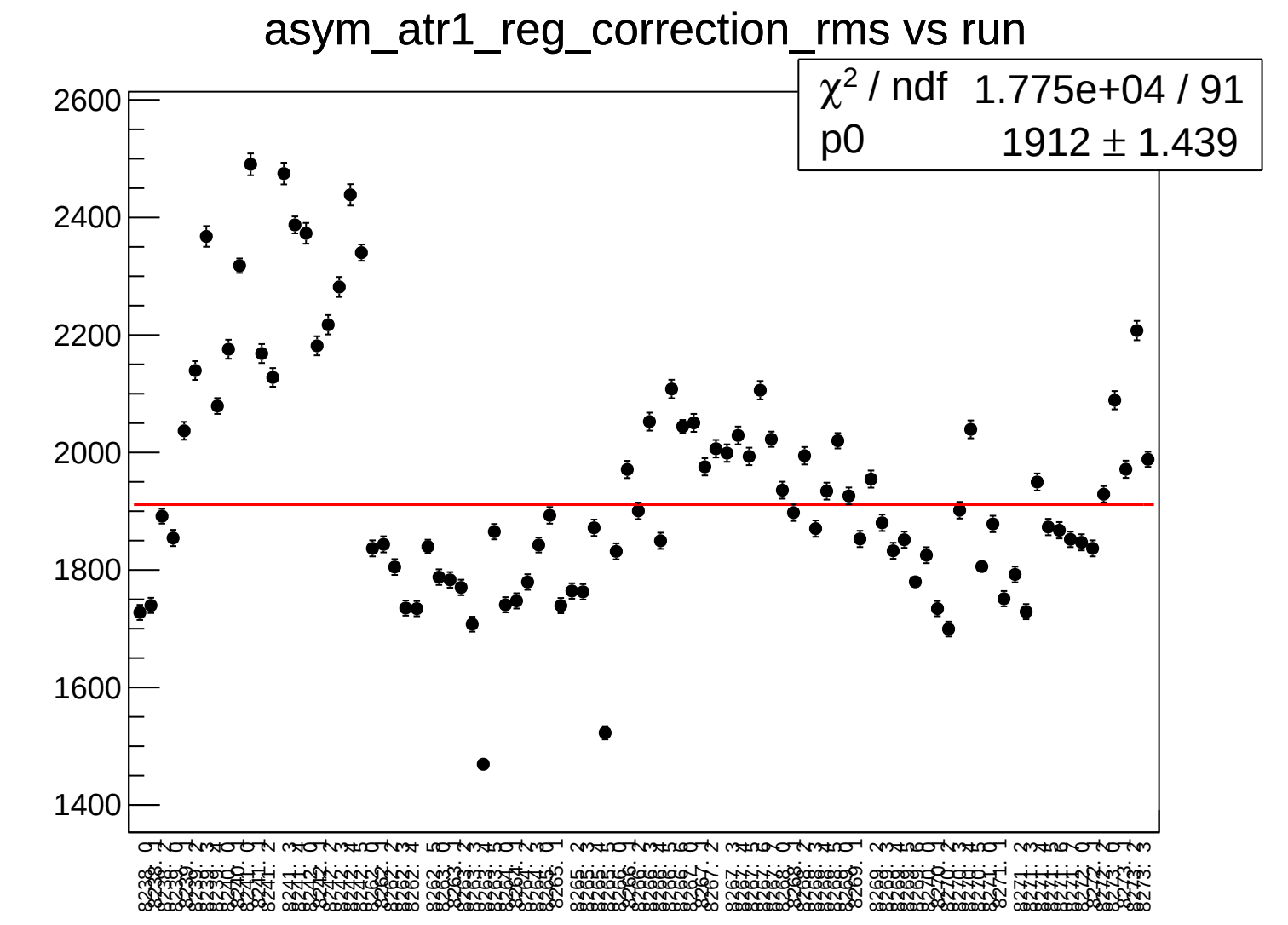

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 97.87 / 91
p0 2702 ± 2951
100
50
0
−50
−100
pull
Entries 92
Mean 109.7
Std Dev 66.73
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

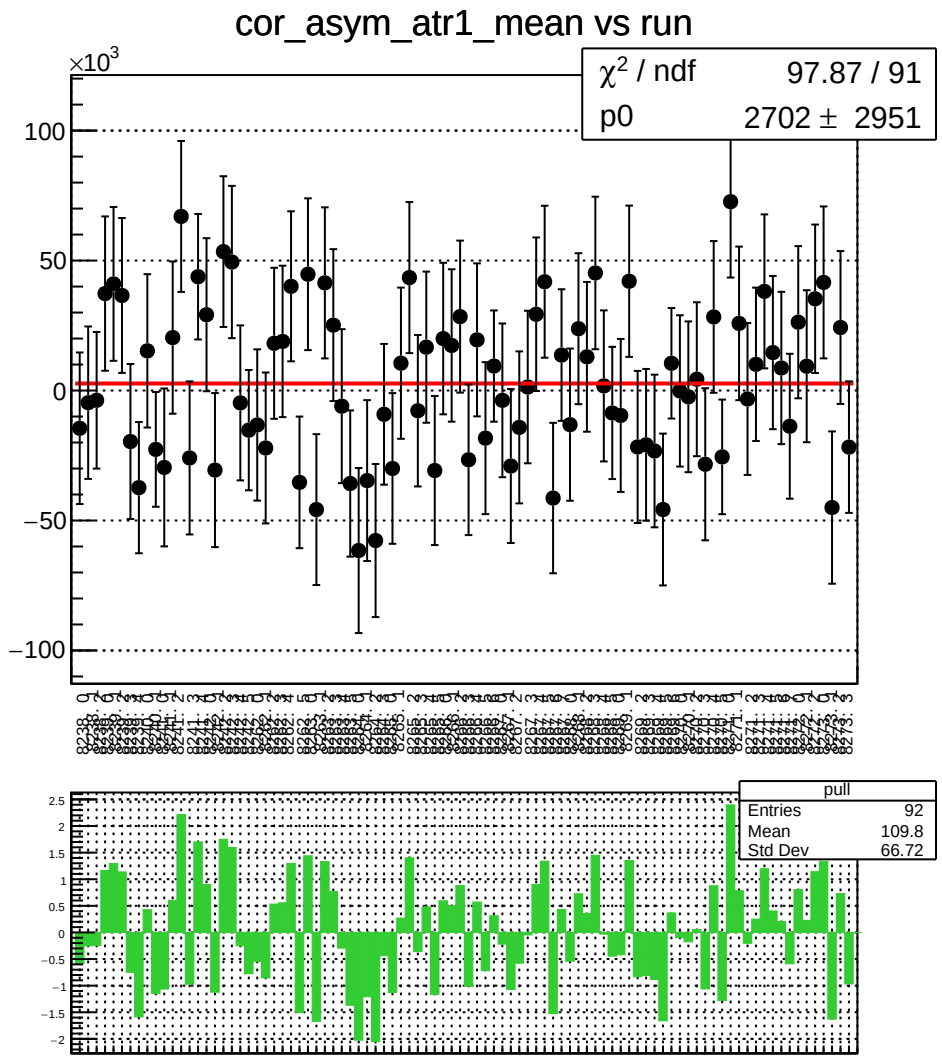

pull1D
Entries 92
Mean 0.009644
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

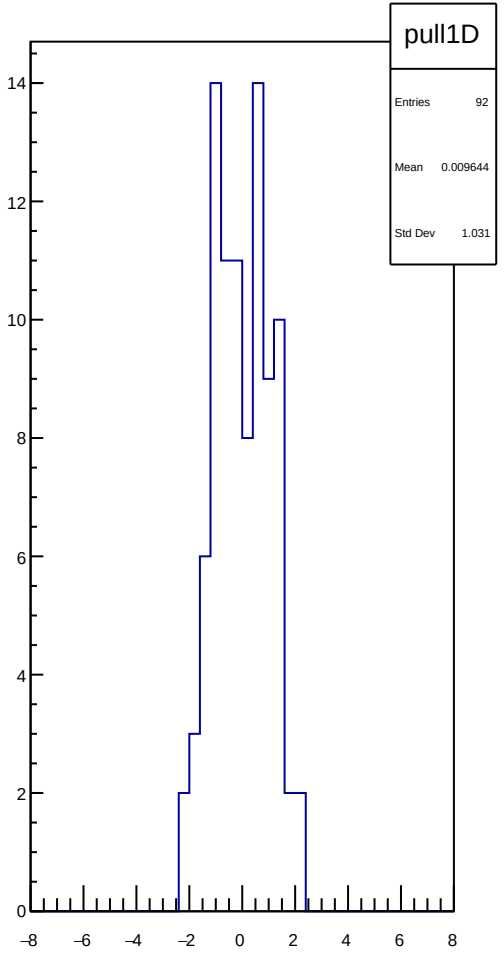

reg_asym_atr1_rms vs run
$\chi^2$ / ndf 392.2 / 91
p0 2786 ± 2.087
3050
3000
2950
2900
2850
2800
2750
2700

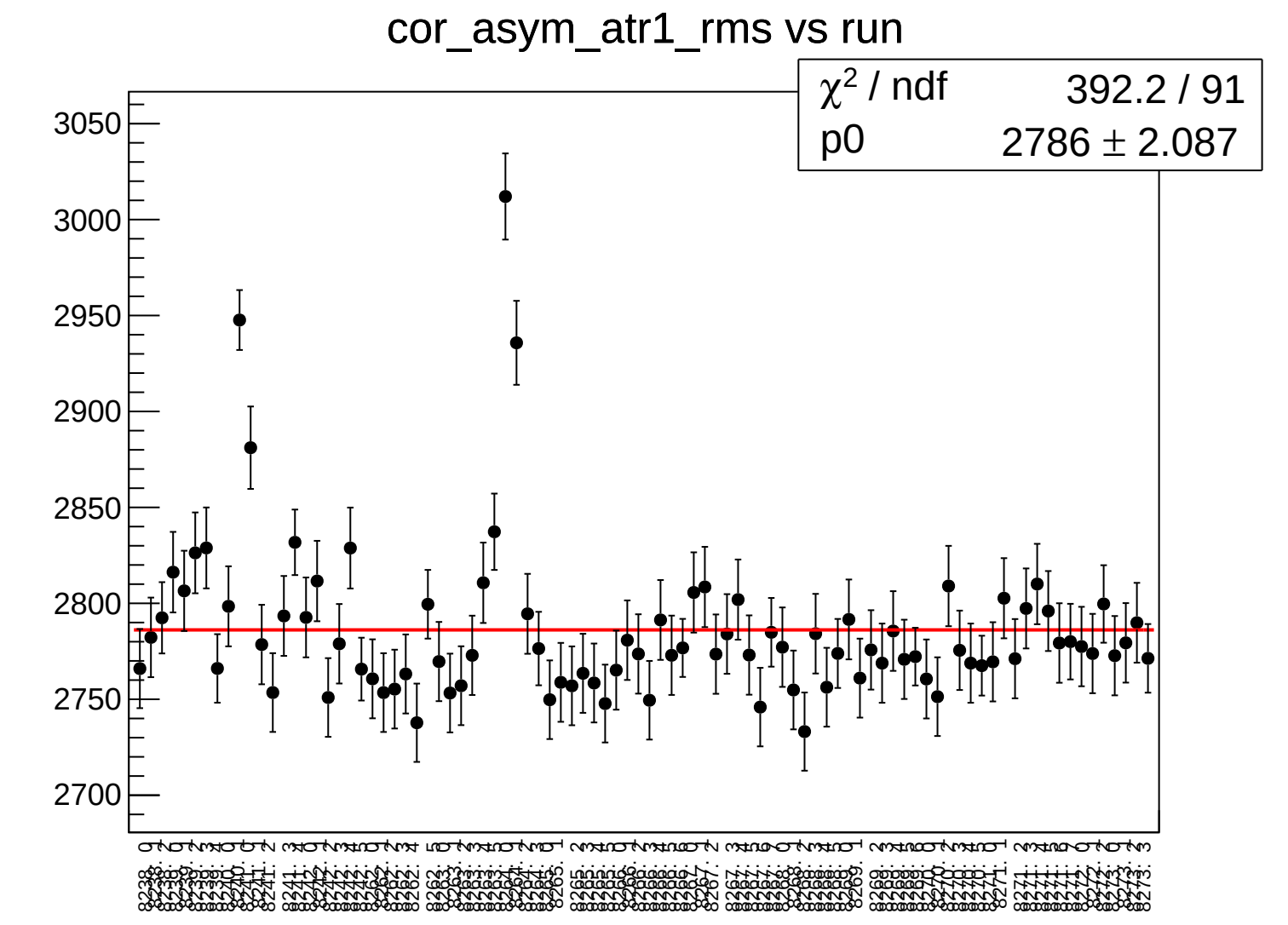

asym_atr1_reg_correction_mean vs run
χ² / ndf 75.44 / 91
p0 2291 ± 2035
pull
Entries 92
Mean 1221
Std Dev 0

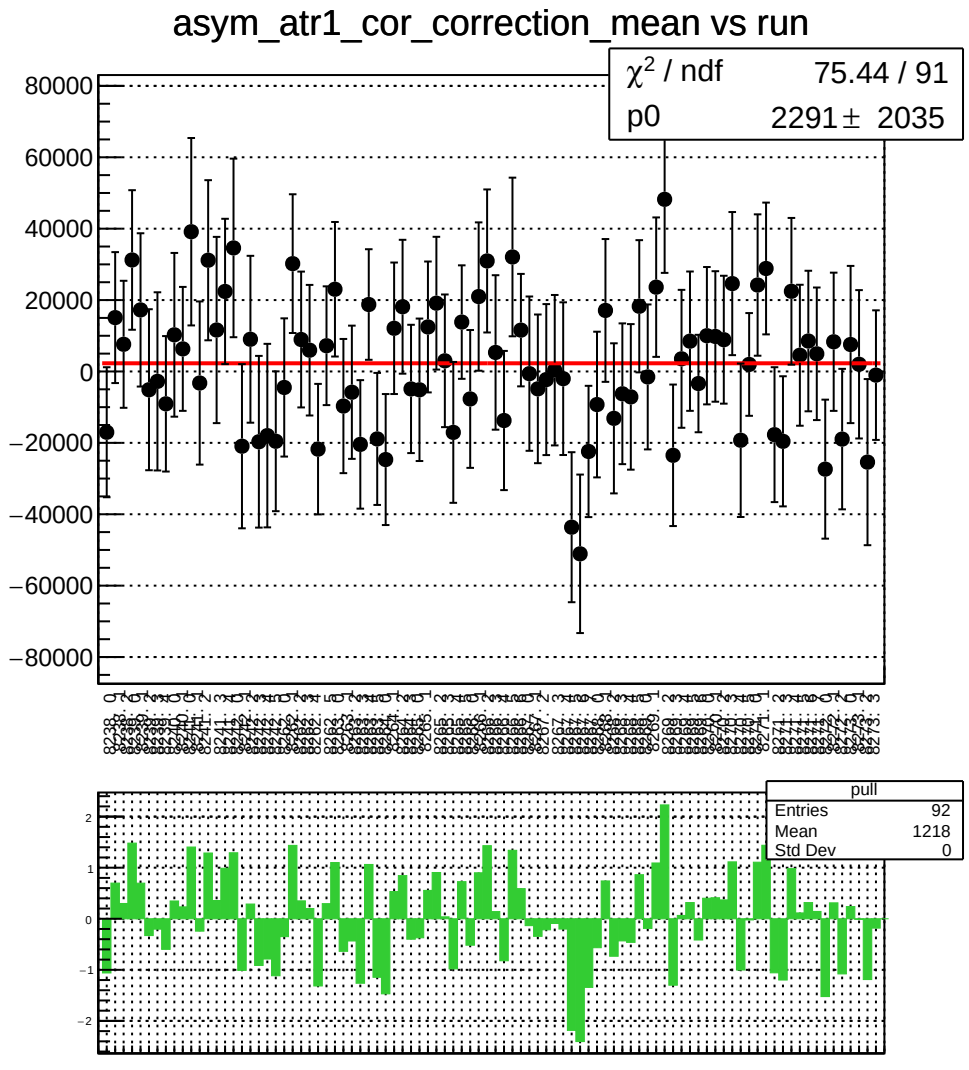

pull1D
Entries 92
Mean −0.002028
Std Dev 0.9055

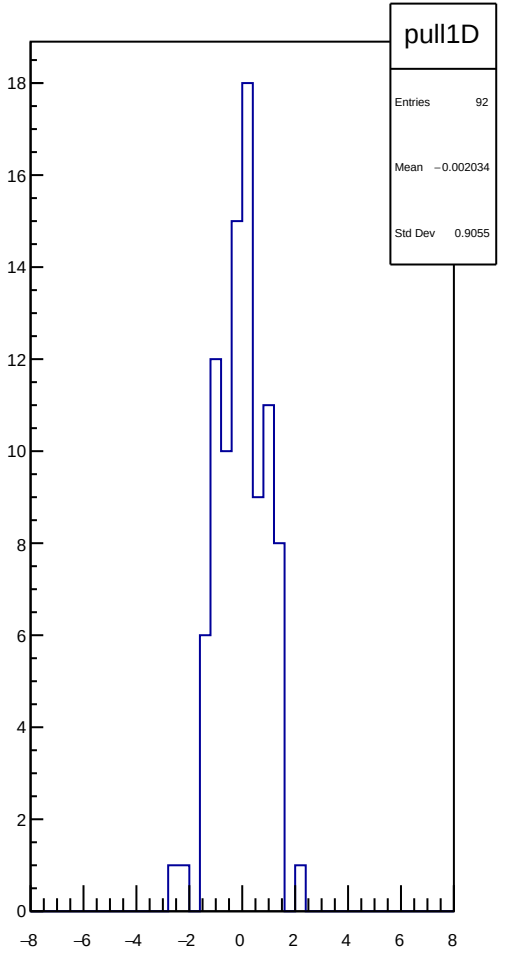

asym_atr1_reg_correction_rms vs run
χ² / ndf 1.775e+04 / 91
p0 1912 ± 1.439
2600
2400
2200
2000
1800
1600
1400

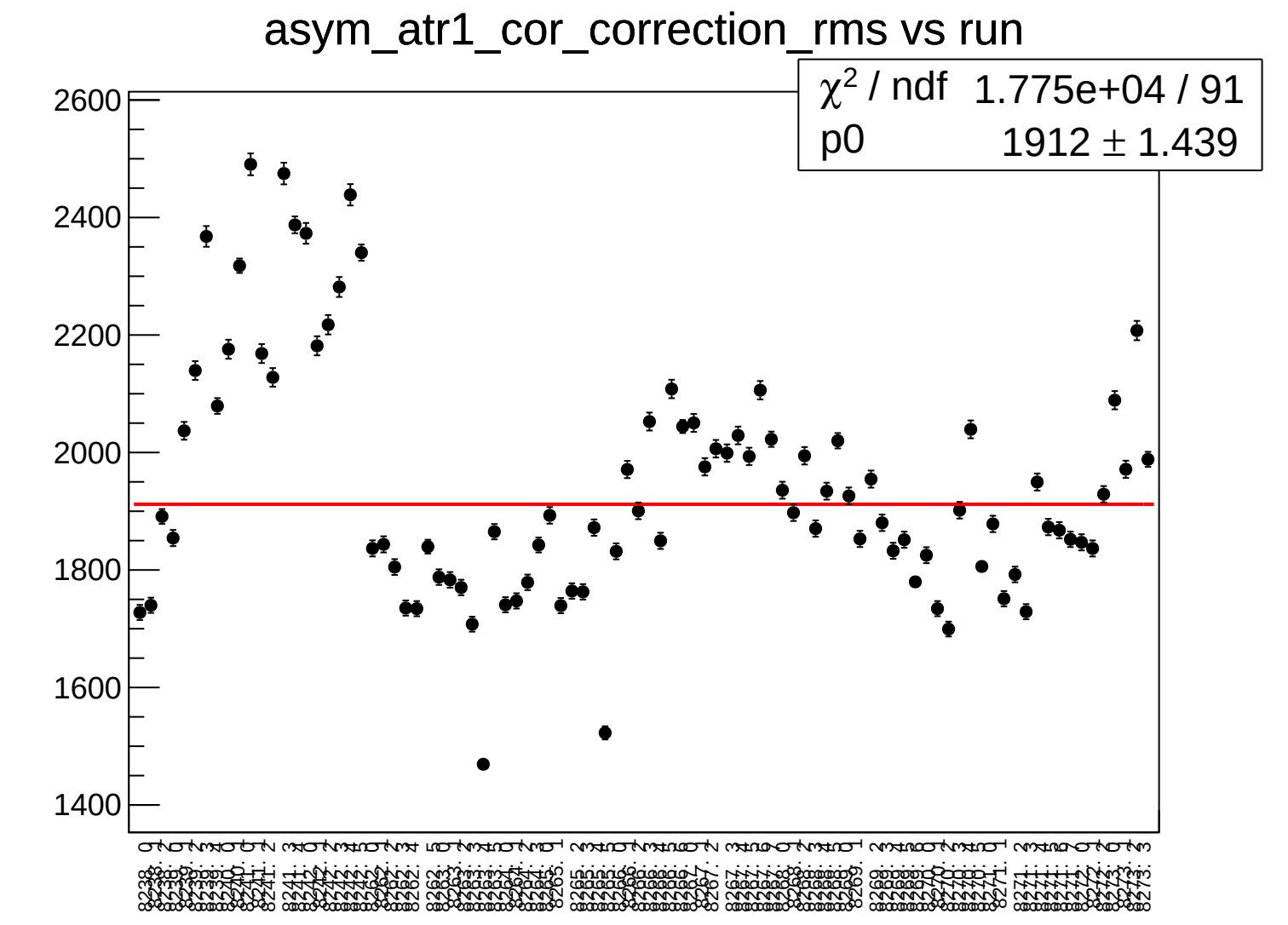

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 97.87 / 91
p0 2702 ± 2951
100
50
0
−50
−100
pull
Entries 92
Mean 109.8
Std Dev 66.72
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

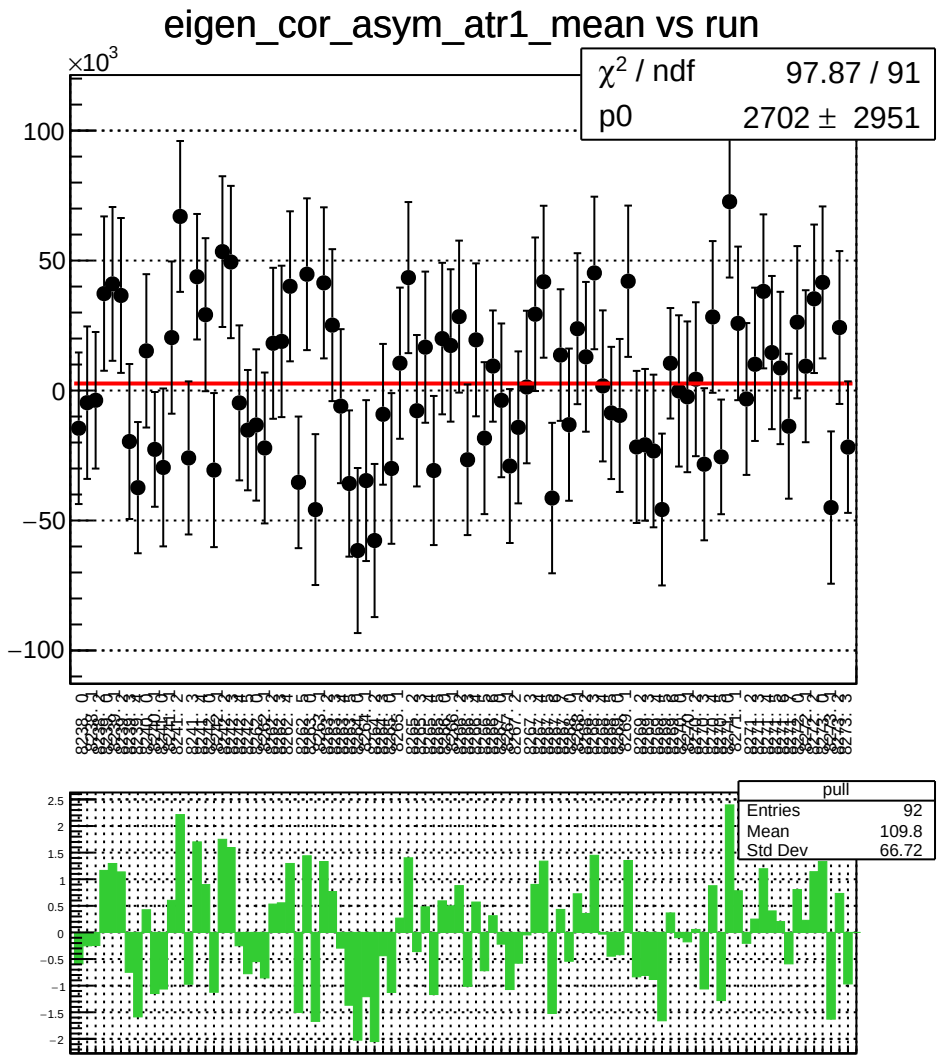

pull1D
Entries 92
Mean 0.009644
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

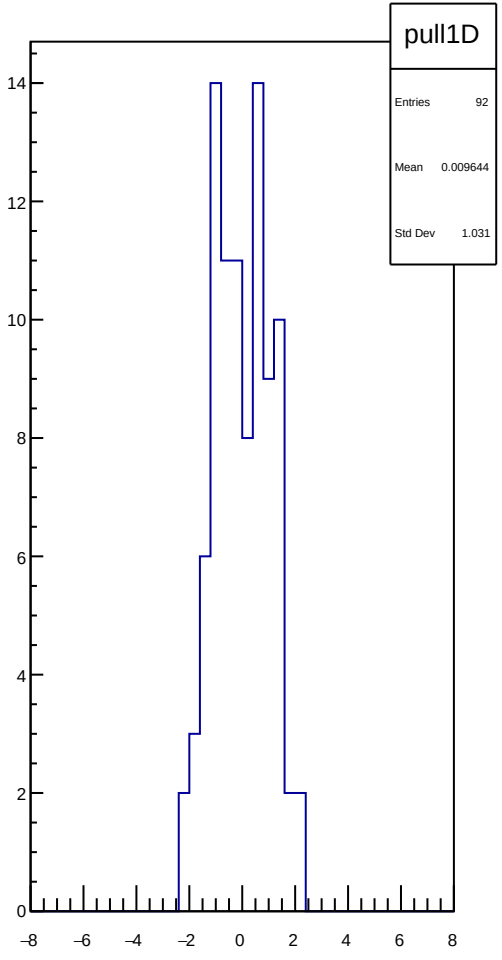

cor_asym_atr1_rms vs run
χ² / ndf 392.2 / 91
p0 2786 ± 2.087
3050
3000
2950
2900
2850
2800
2750
2700

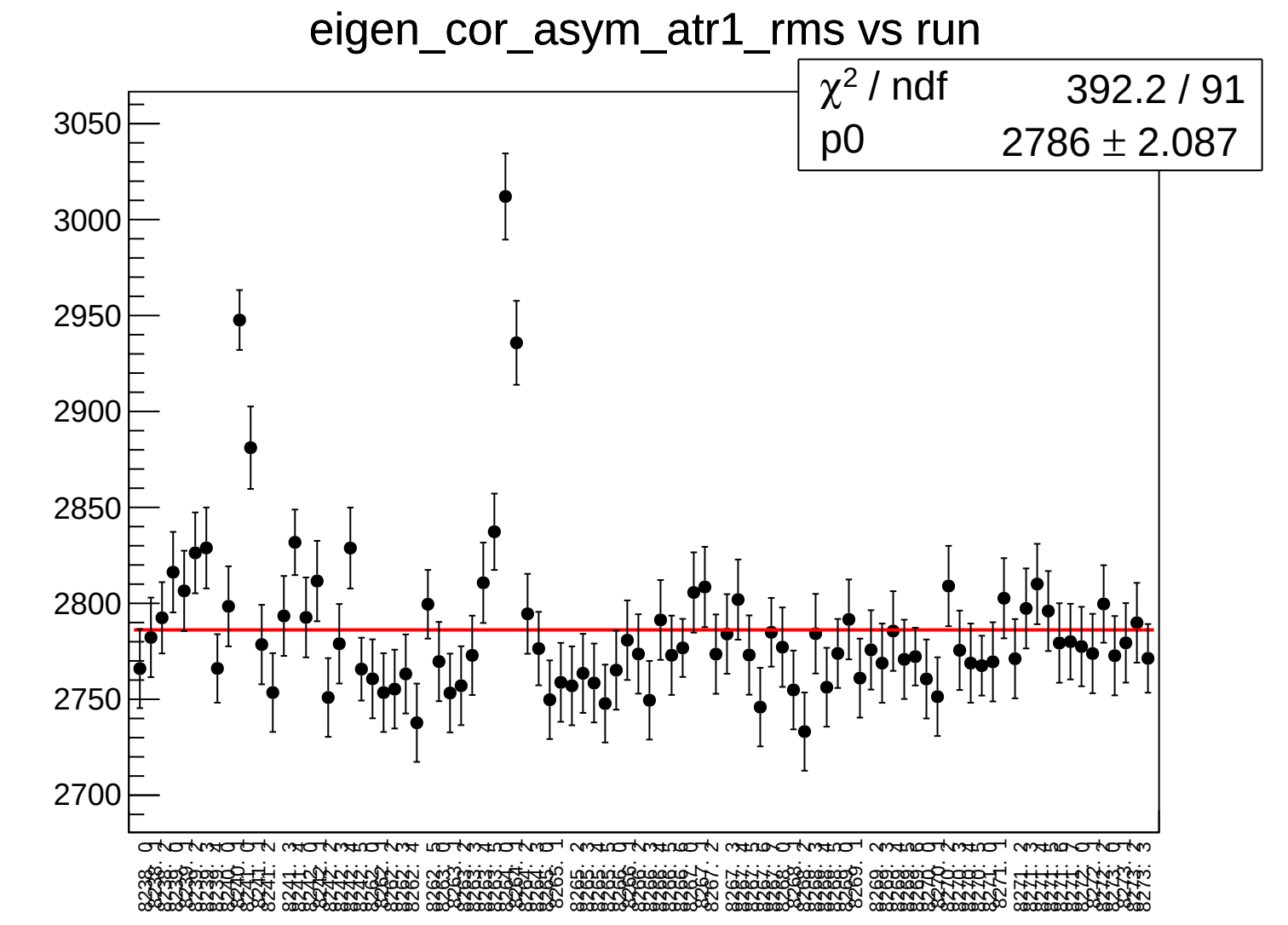

asym_atr1_cor_correction_mean vs run
χ² / ndf 75.44 / 91
p0 2291 ± 2035
pull
Entries 92
Mean 1218
Std Dev 0

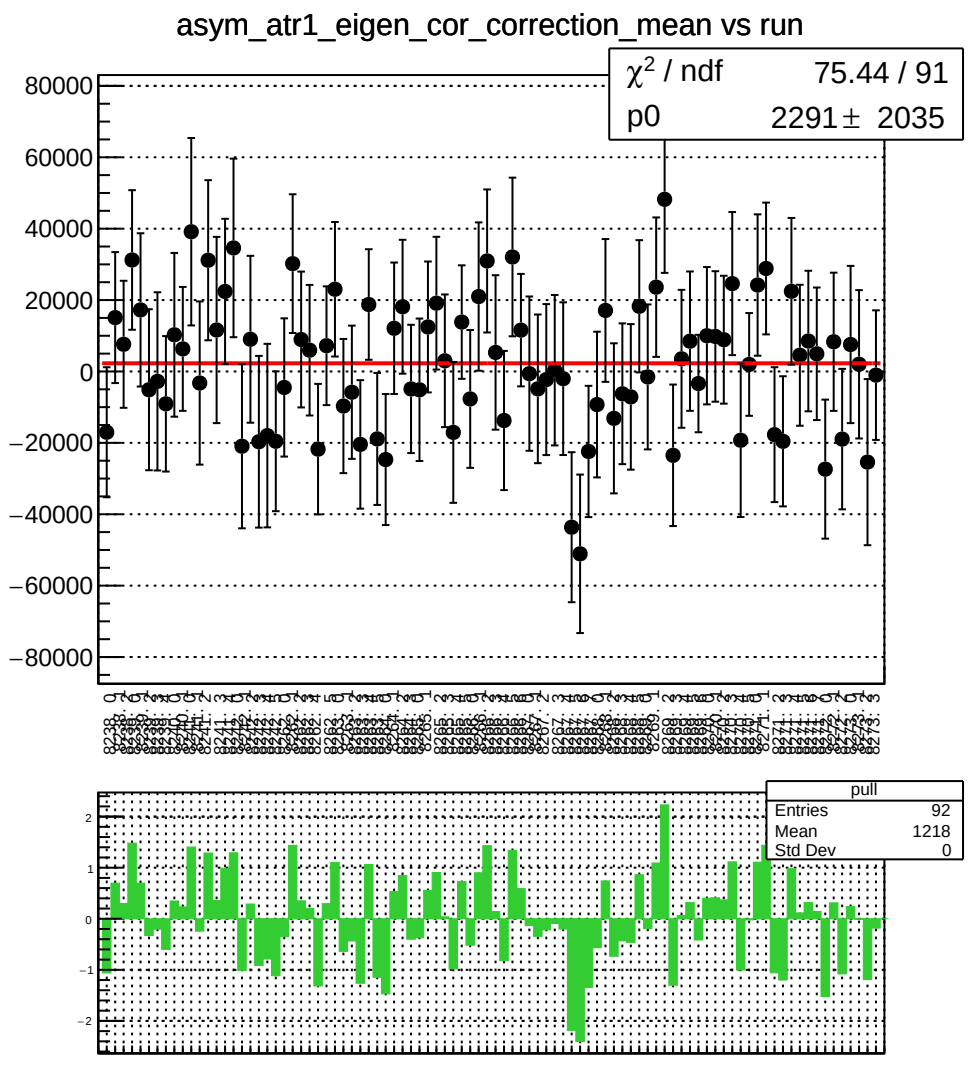

pull1D
Entries 92
Mean −0.002034
Std Dev 0.9055

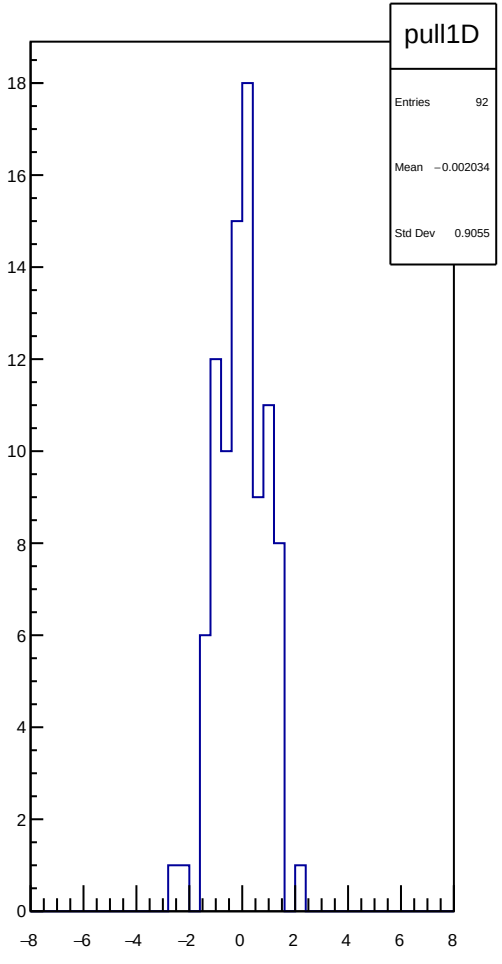

asym_atr1_cor_correction_rms vs run
χ² / ndf 1.775e+04 / 91
p0 1912 ± 1.439
2600
2400
2200
2000
1800
1600
1400

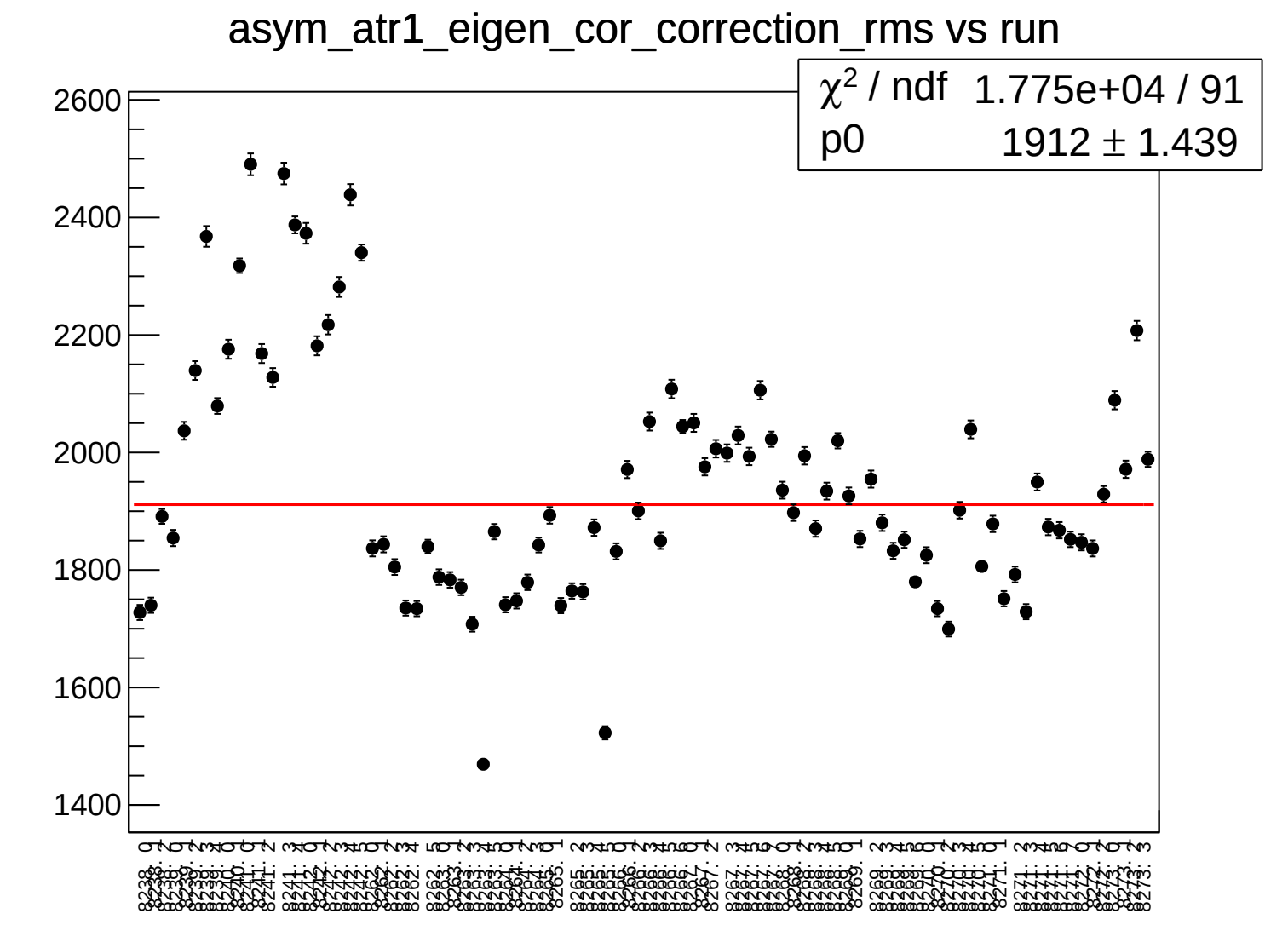

eigen_cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 97.87 / 91
p0 2702 ± 2951
100
50
0
−50
−100
pull
Entries 92
Mean 109.8
Std Dev 66.72
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

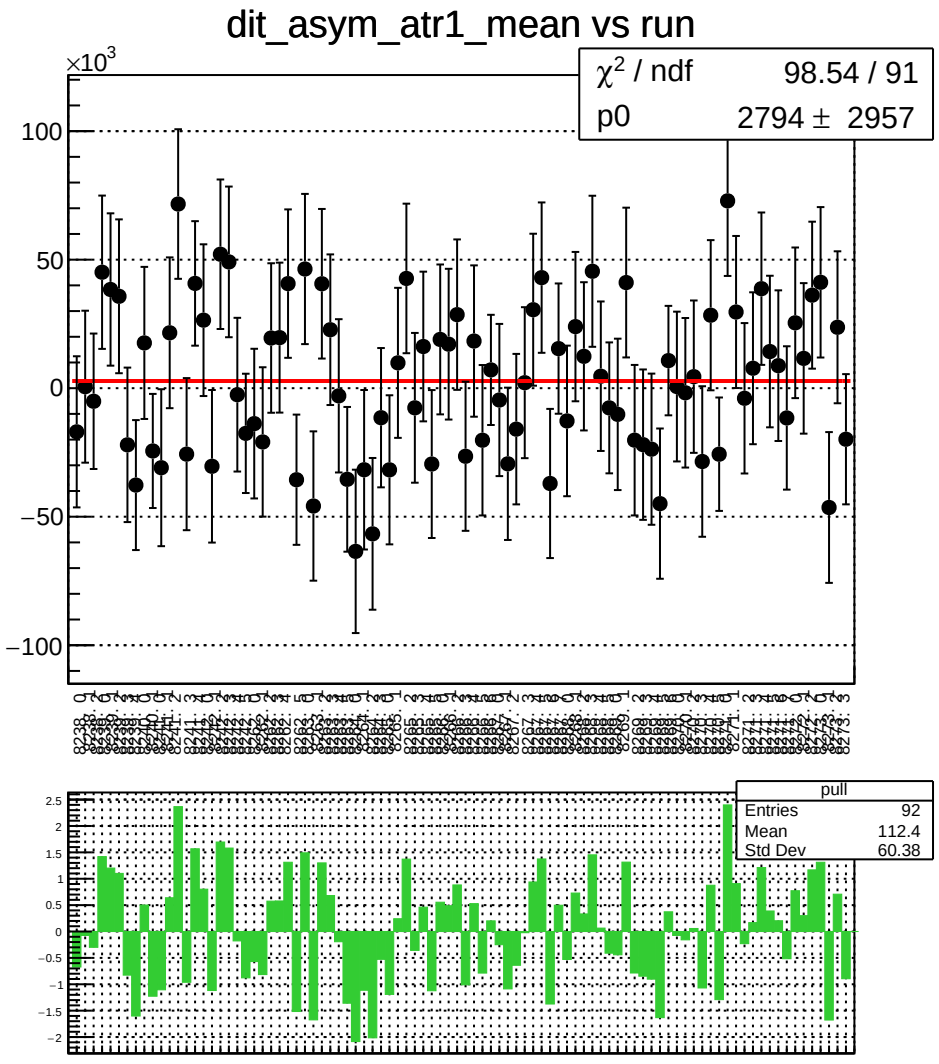

pull1D
Entries 92
Mean 0.009644
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

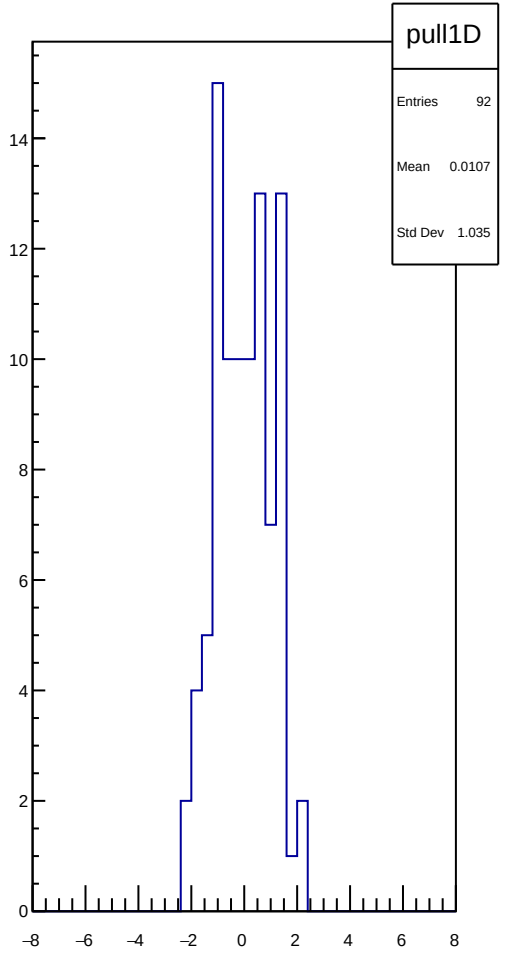

eigen_cor_asym_atr1_rms vs run
χ² / ndf 392.2 / 91
p0 2786 ± 2.087
3050
3000
2950
2900
2850
2800
2750
2700

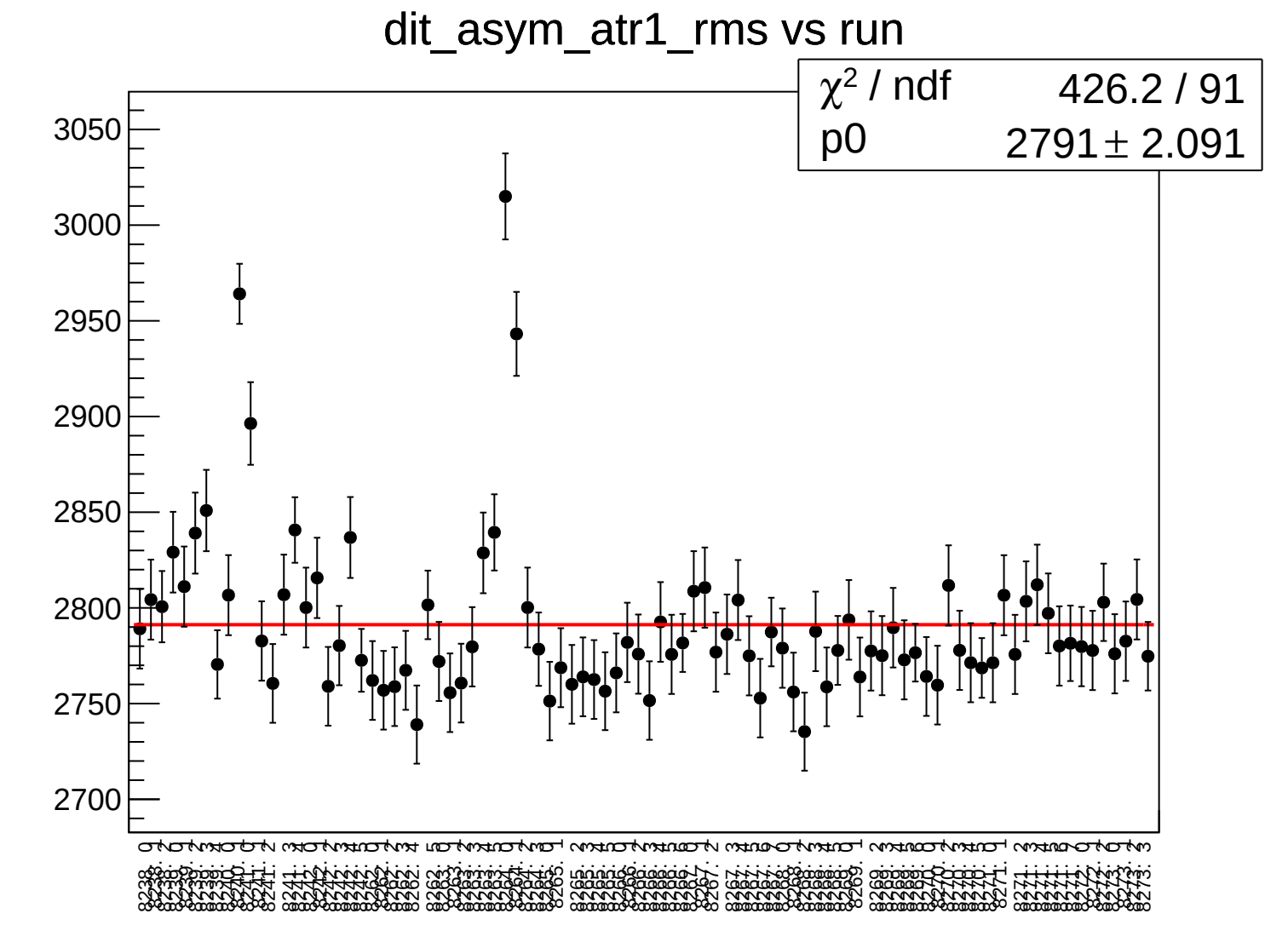

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 75.44 / 91
p0 2291 ± 2035
pull
Entries 92
Mean 1218
Std Dev 0

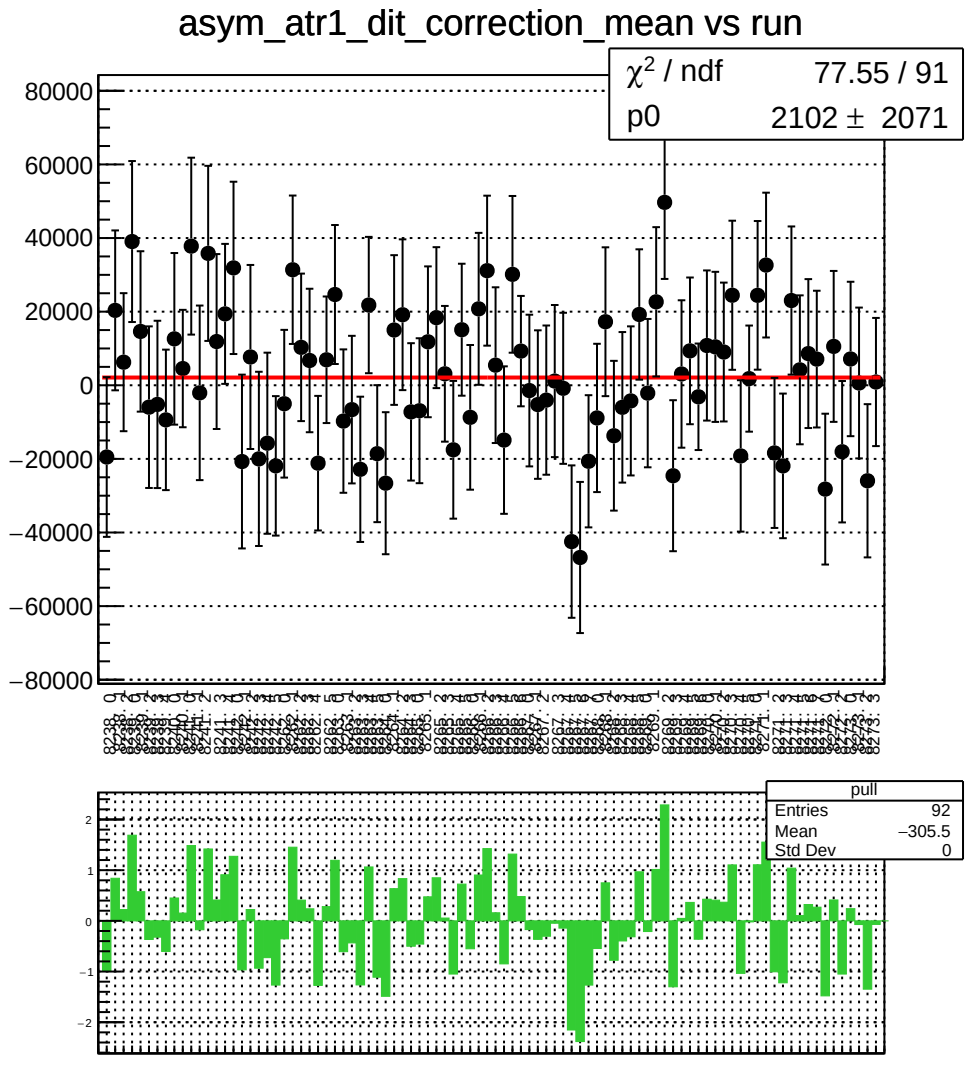

pull1D
Entries 92
Mean −0.002034
Std Dev 0.9055

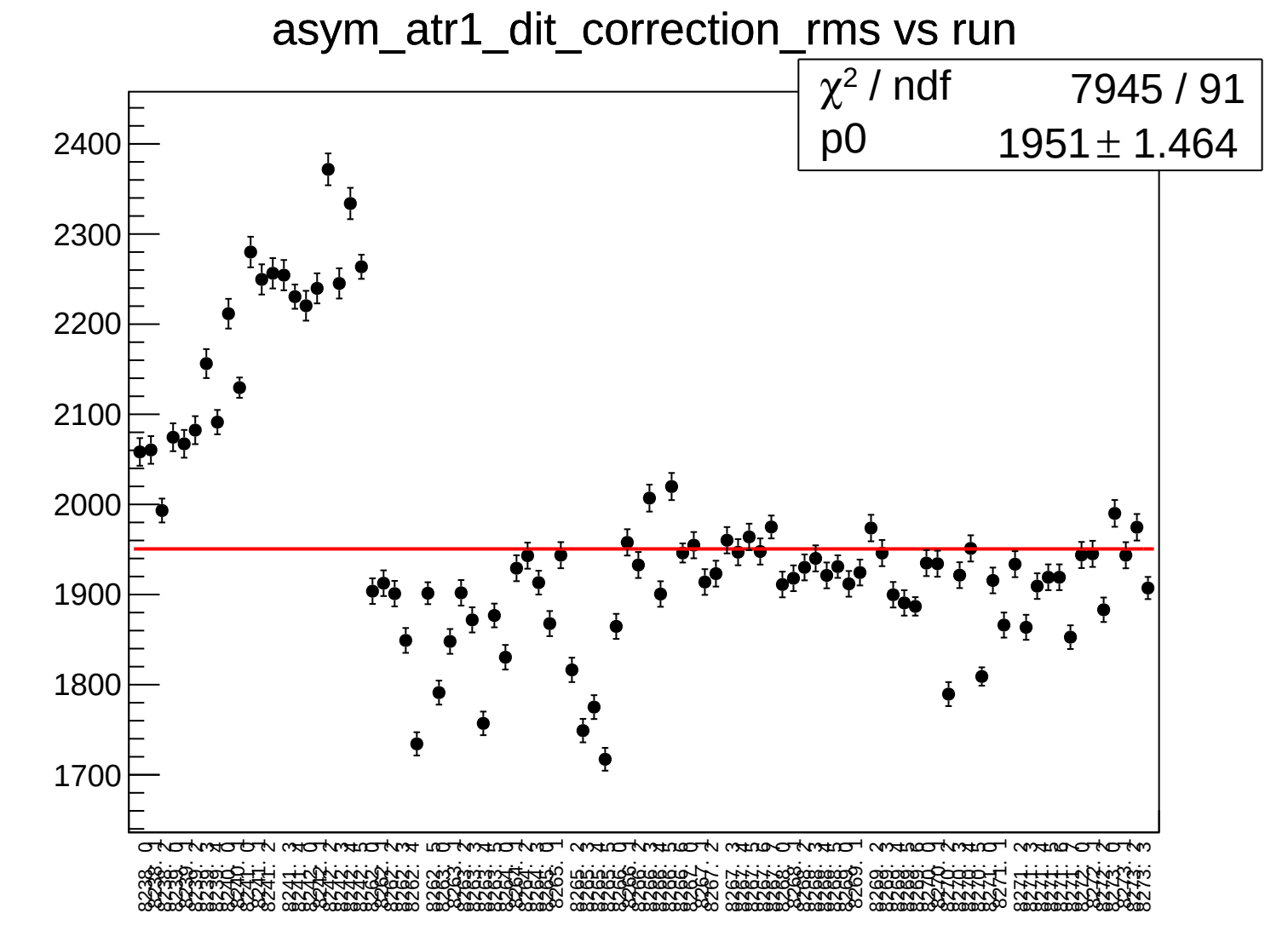

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 1.775e+04 / 91
p0 1912 ± 1.439
2600
2400
2200
2000
1800
1600
1400

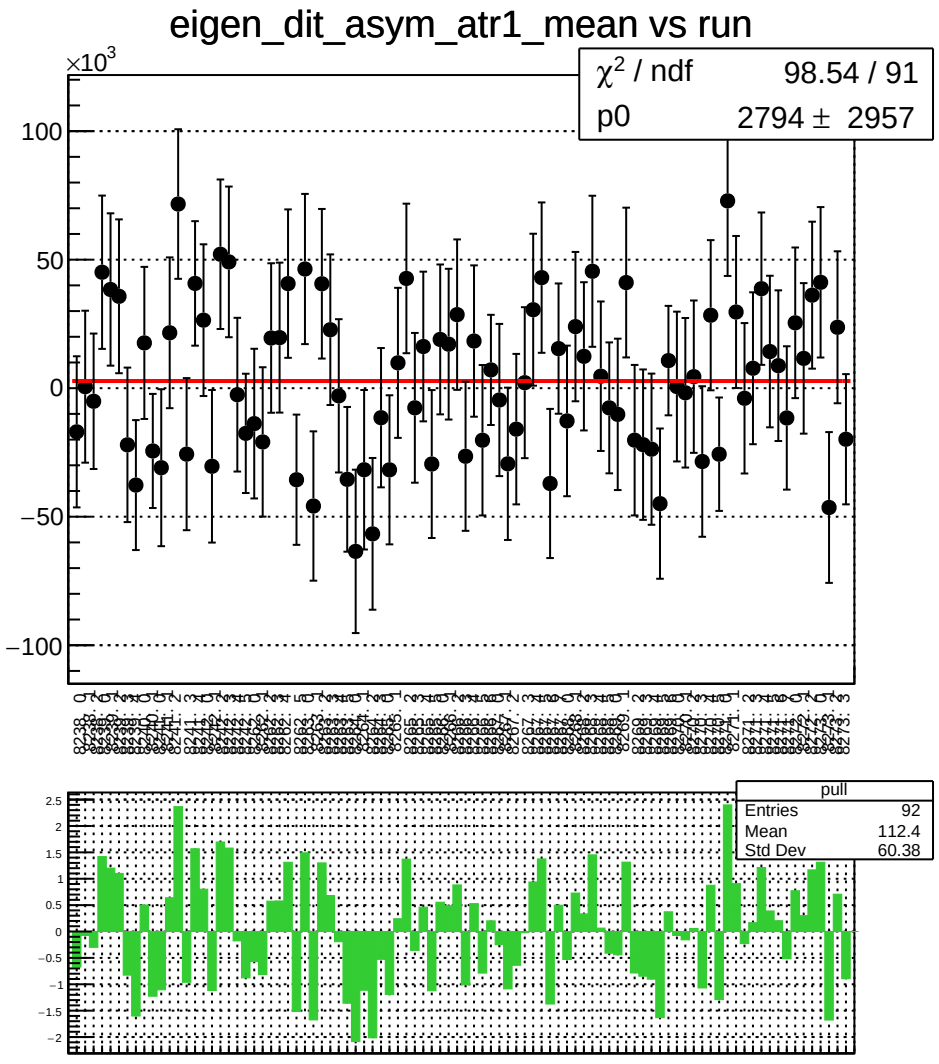

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 98.54 / 91
p0 2794 ± 2957
100
50
0
−50
−100
pull
Entries 92
Mean 112.4
Std Dev 60.38
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

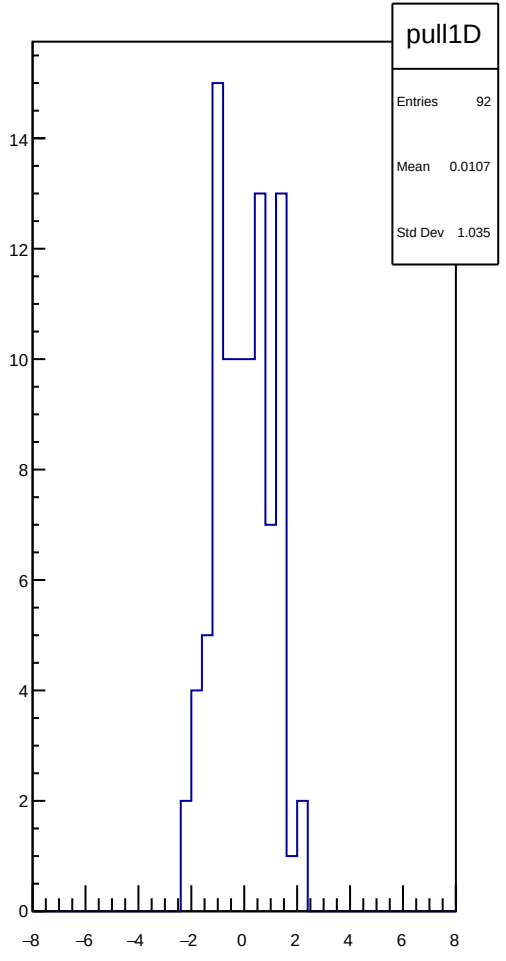

pull1D
Entries 92
Mean 0.0107
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

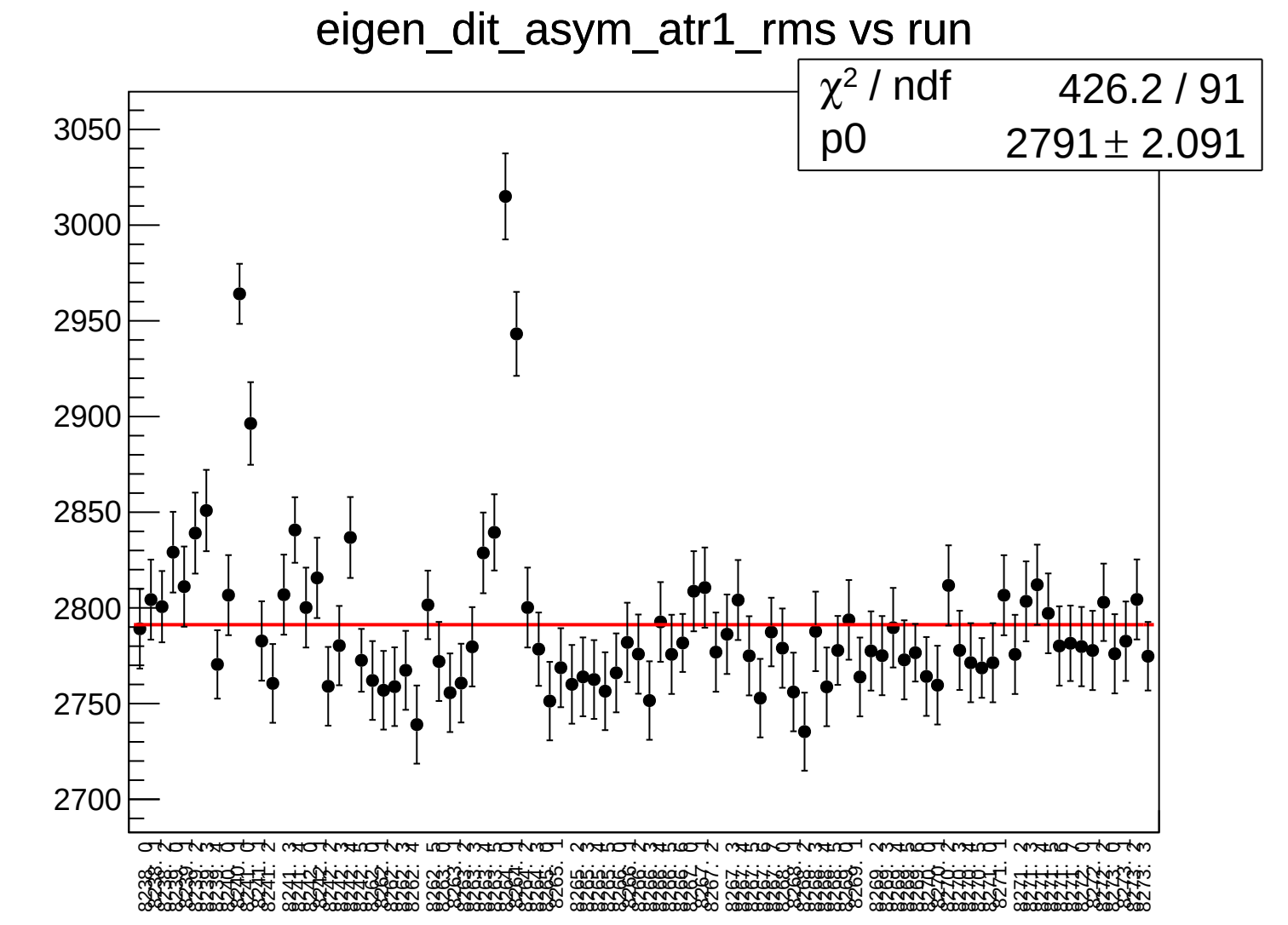

dit_asym_atr1_rms vs run
χ² / ndf 426.2 / 91
p0 2791 ± 2.091
3050
3000
2950
2900
2850
2800
2750
2700

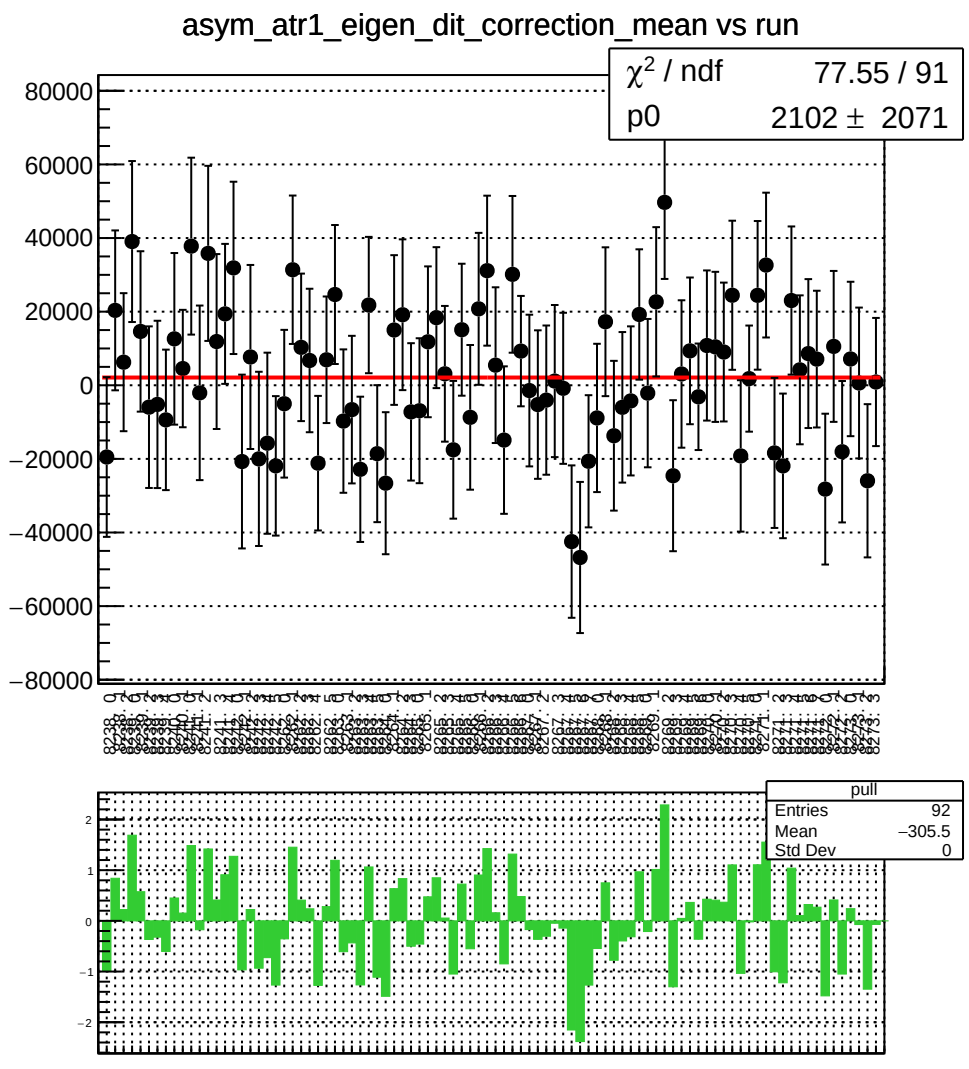

asym_atr1_dit_correction_mean vs run
χ² / ndf 77.55 / 91
p0 2102 ± 2071
pull
Entries 92
Mean −305.5
Std Dev 0
pull1D
Entries 92
Mean 0.006548
Std Dev 0.9181

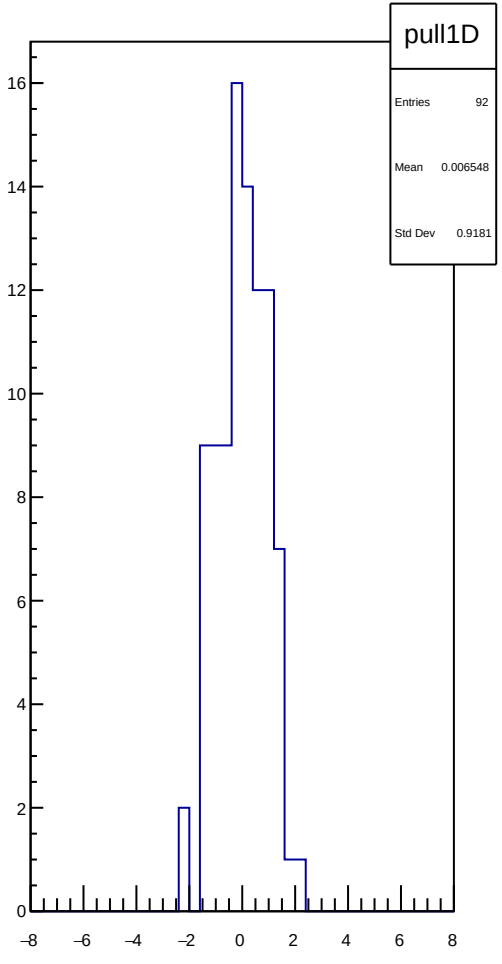

asym_atr1_dit_correction_rms vs run
χ² / ndf 7945 / 91
p0 1951 ± 1.464
2400
2300
2200
2100
2000
1900
1800
1700

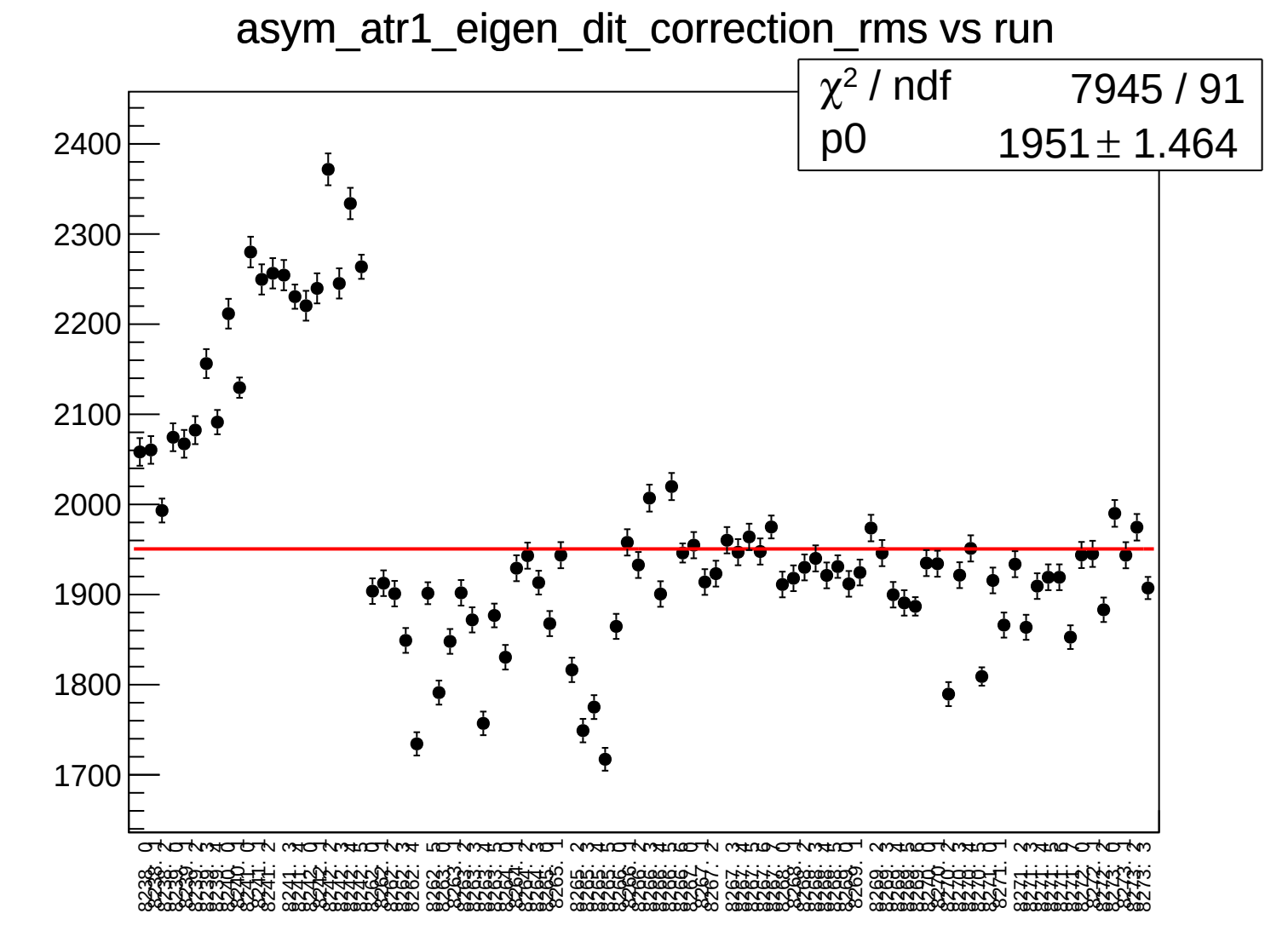

eigen_dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 98.54 / 91
p0 2794 ± 2957
100
50
0
−50
−100
pull
Entries 92
Mean 112.4
Std Dev 60.38
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

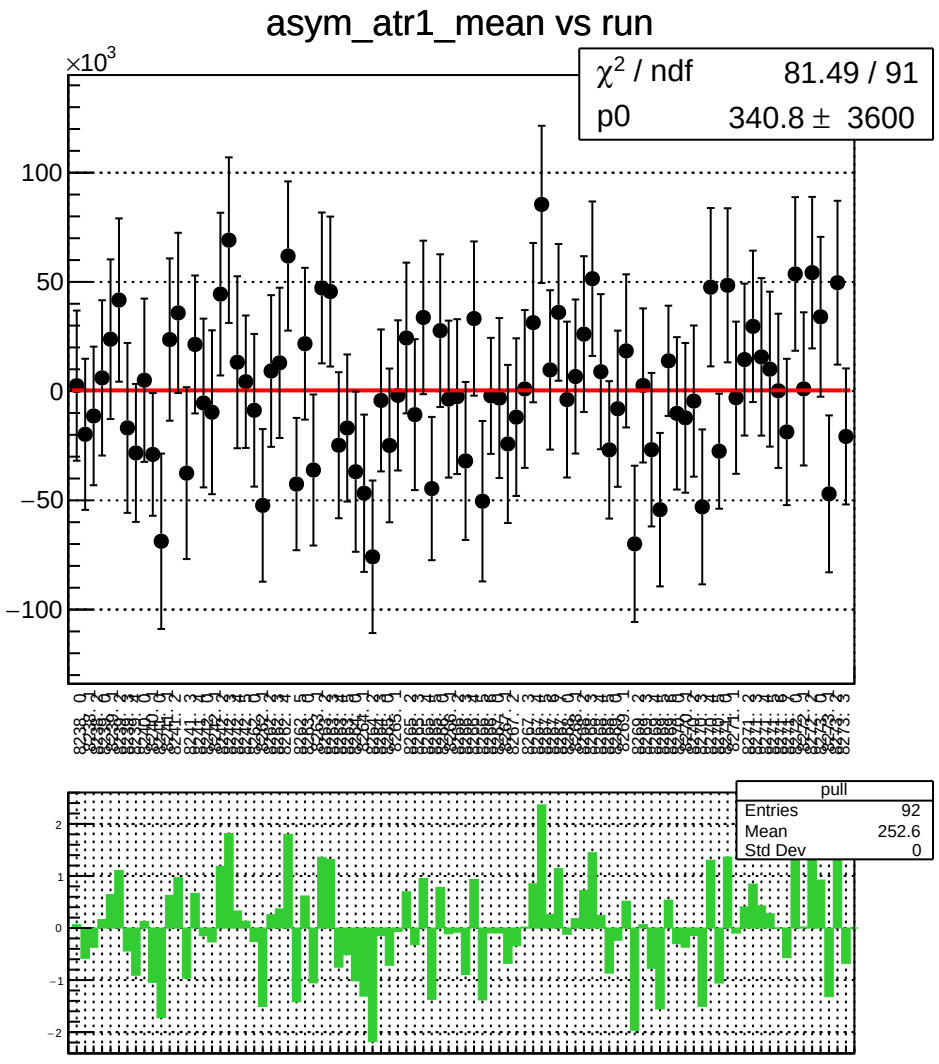

pull1D
Entries 92
Mean 0.0107
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

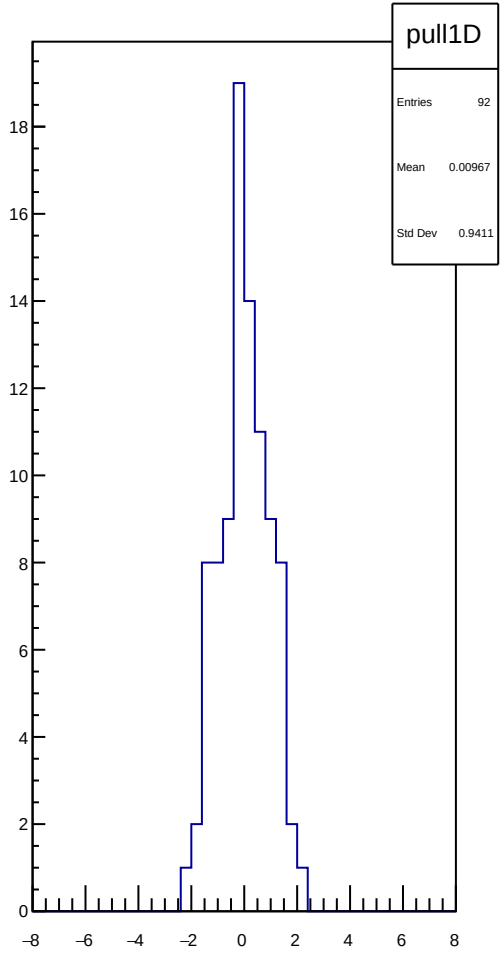

eigen_dit_asym_atr1_rms vs run
χ² / ndf 426.2 / 91
p0 2791 ± 2.091
3050
3000
2950
2900
2850
2800
2750
2700

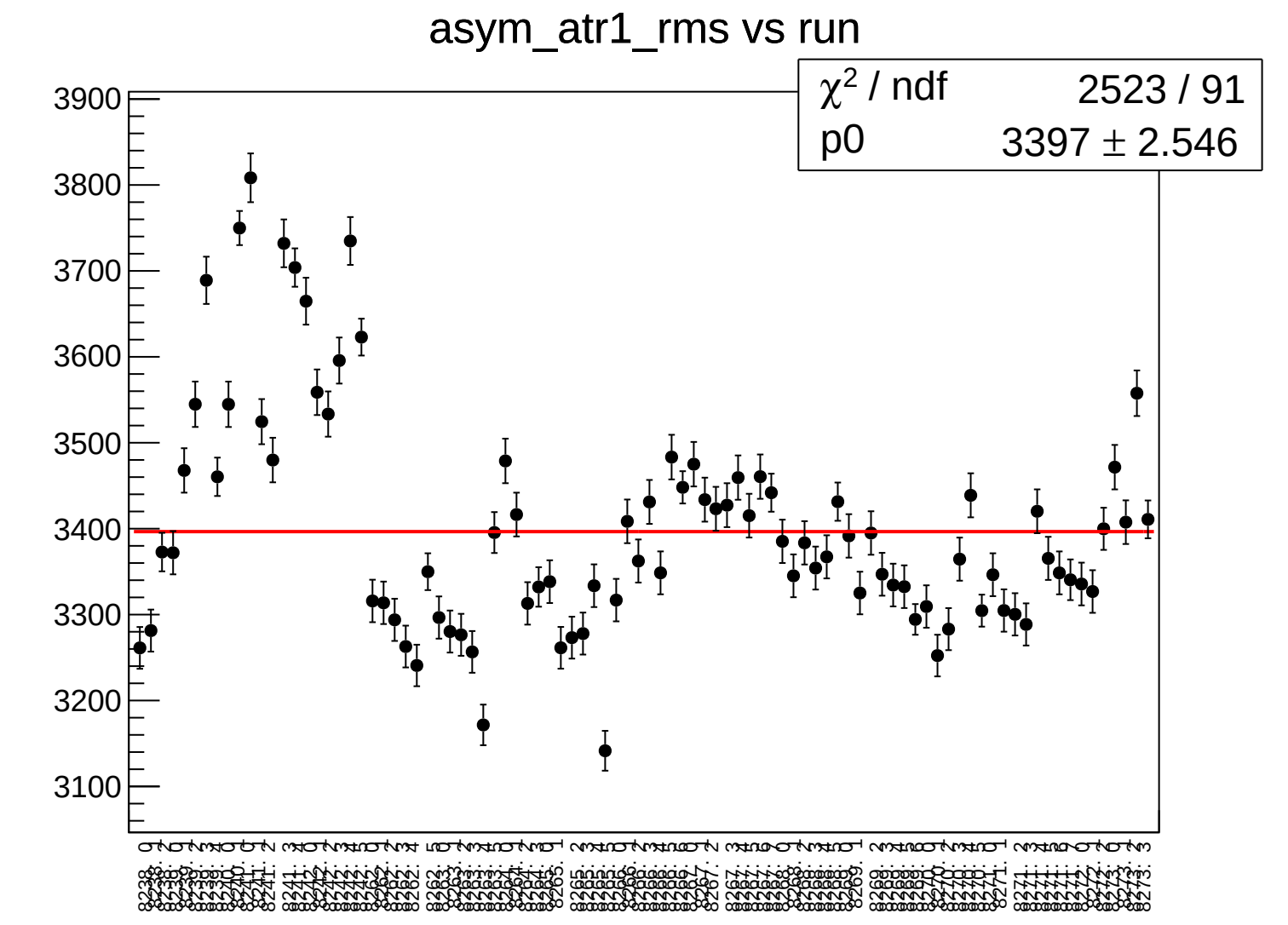

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 77.55 / 91
p0 2102 ± 2071
pull
Entries 92
Mean −305.5
Std Dev 0

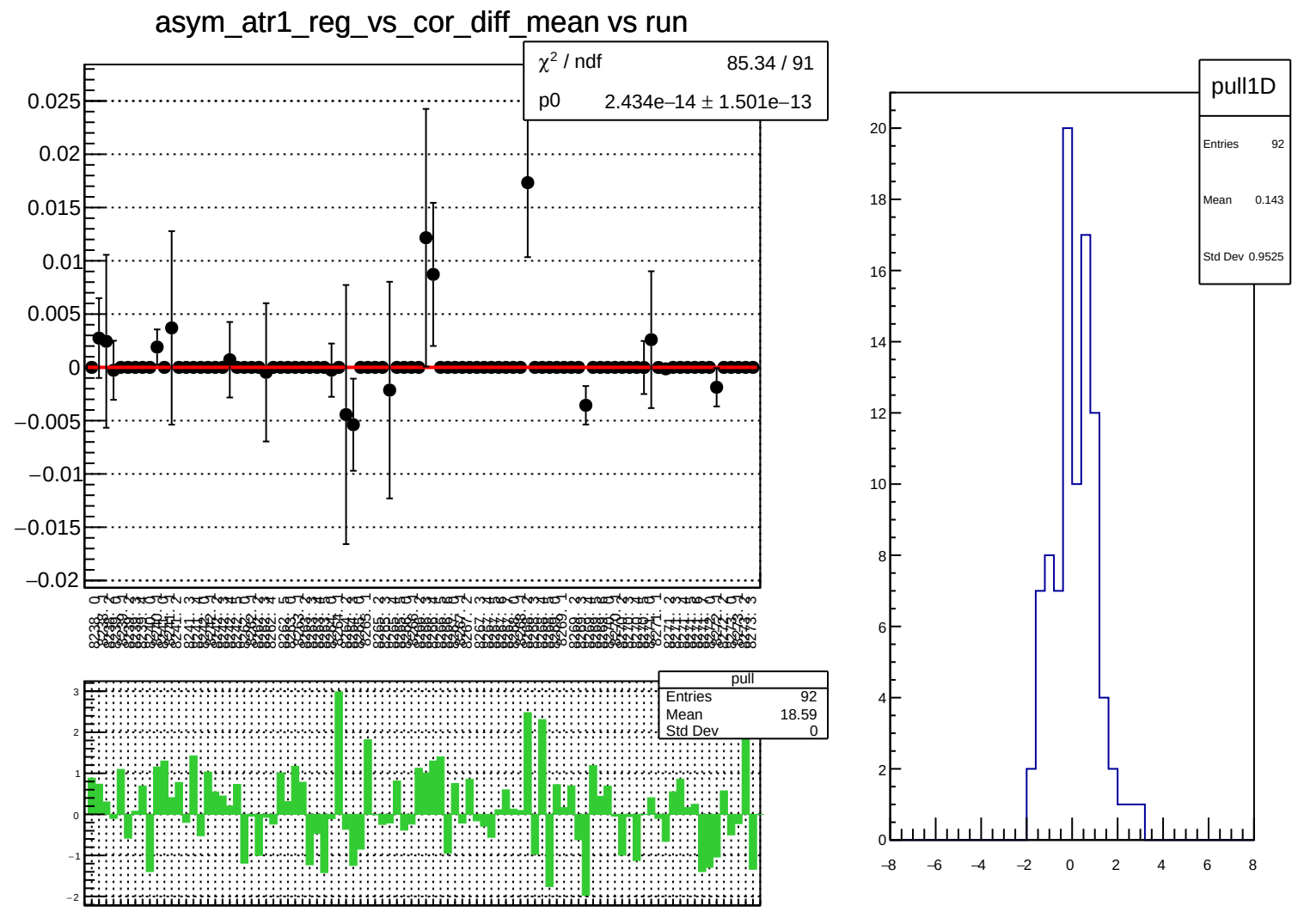

pull1D
Entries 92
Mean 0.006548
Std Dev 0.9181

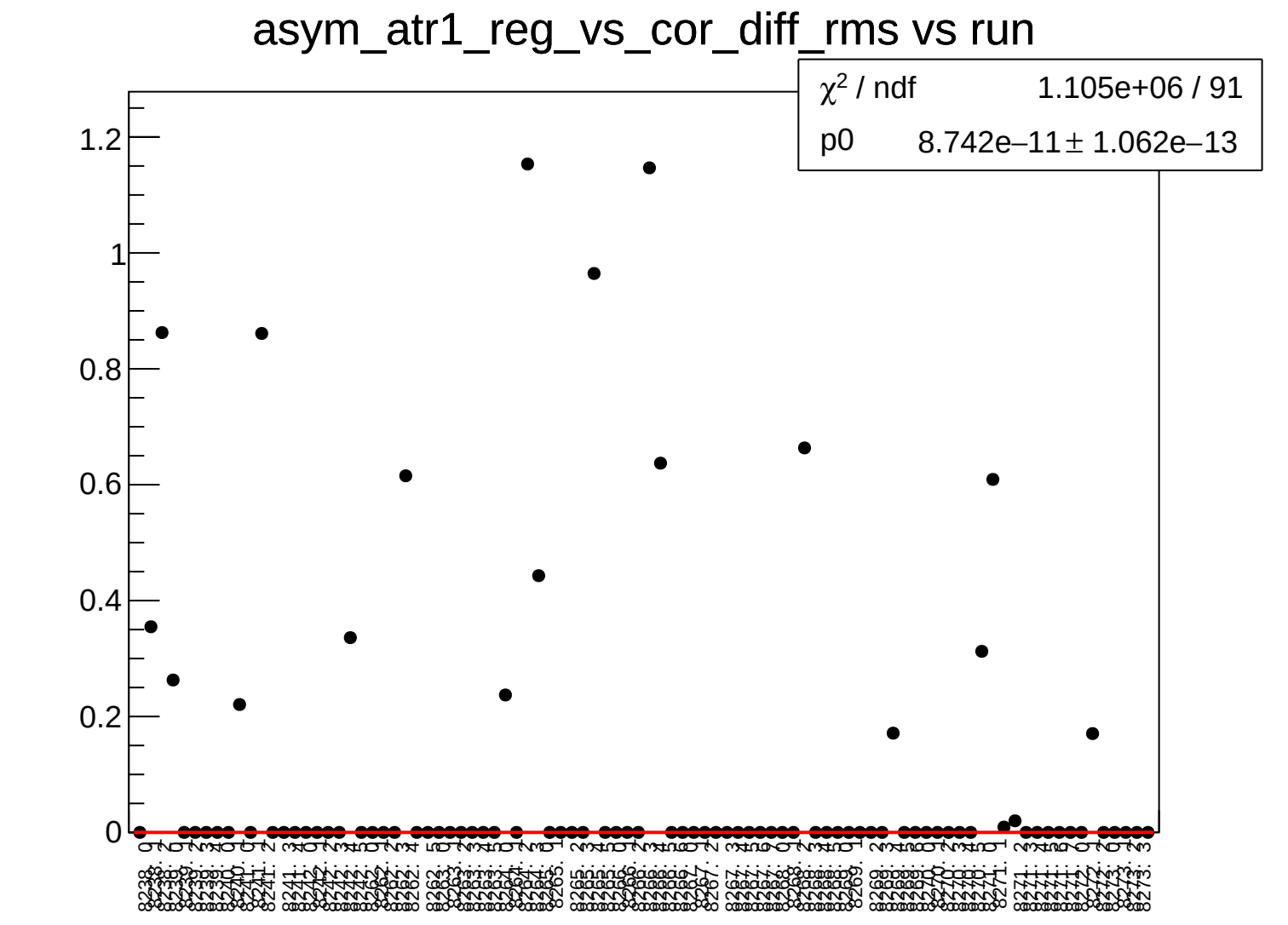

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 7945 / 91
p0 1951 ± 1.464
2400
2300
2200
2100
2000
1900
1800
1700

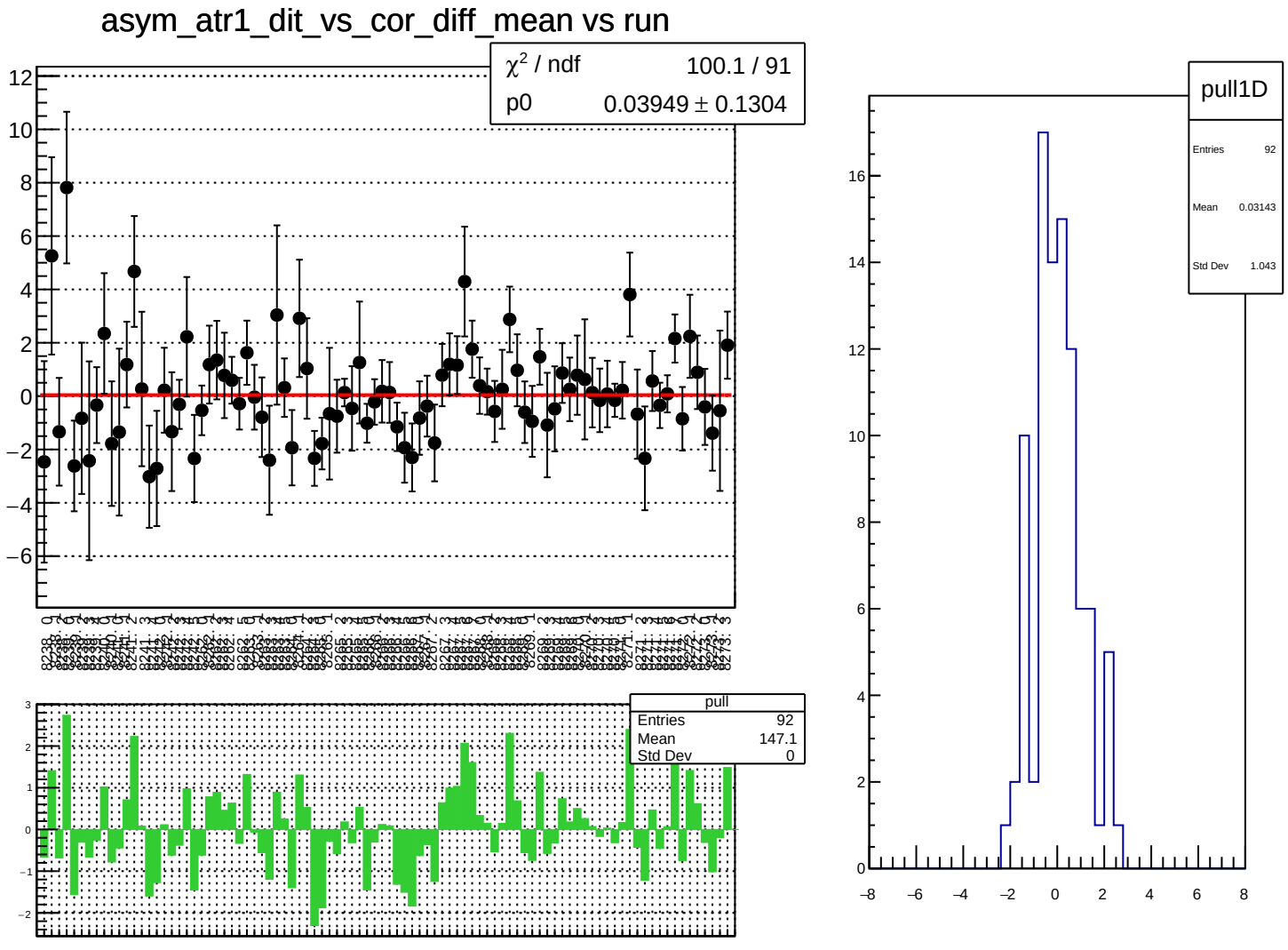

asym_atr1_mean vs run
×10^3
χ² / ndf 81.49 / 91
p0 340.8 ± 3600
100
50
0
−50
−100
pull
Entries 92
Mean 252.6
Std Dev 0
2
1
0
−1
−2

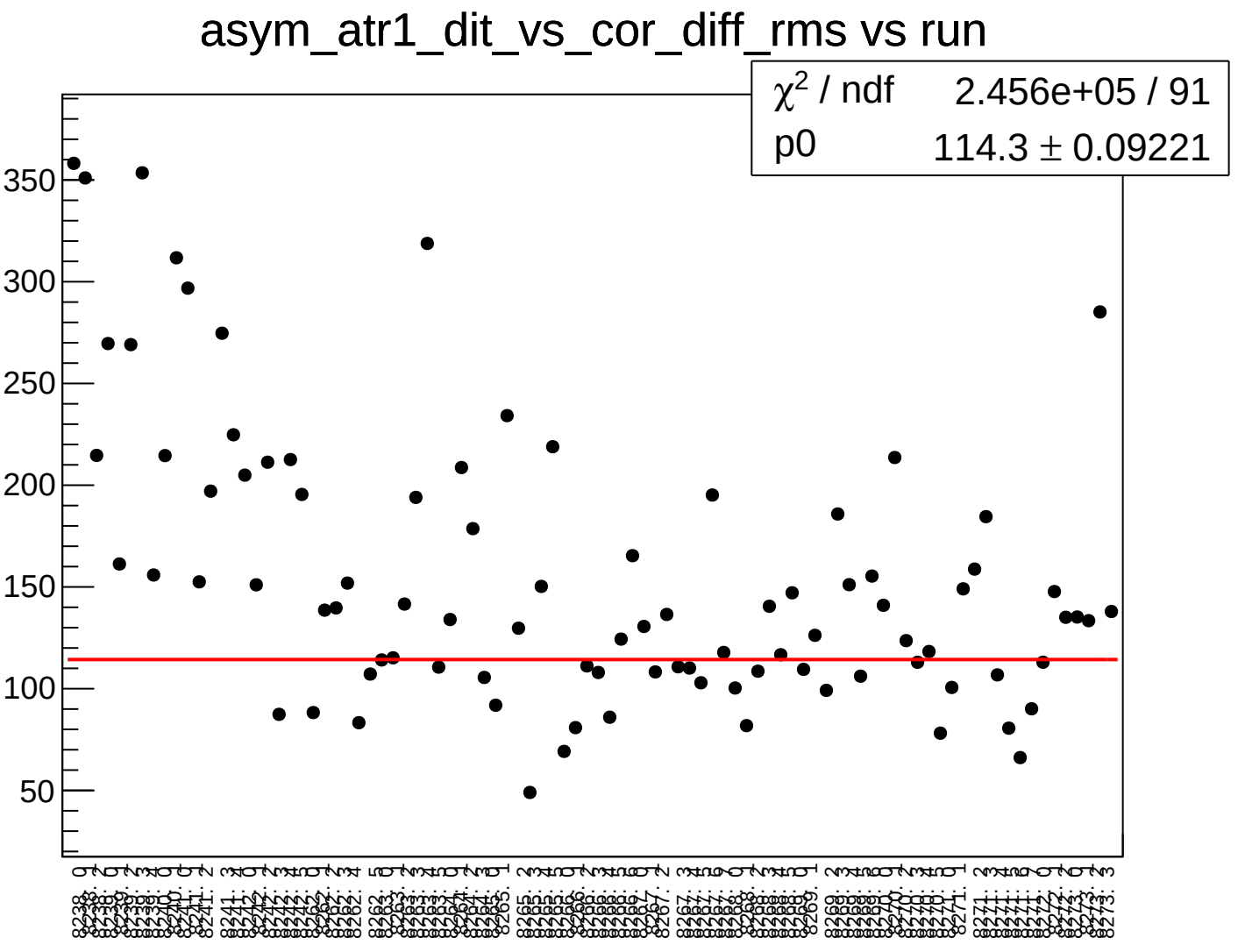

pull1D
Entries 92
Mean 0.00967
Std Dev 0.9411
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

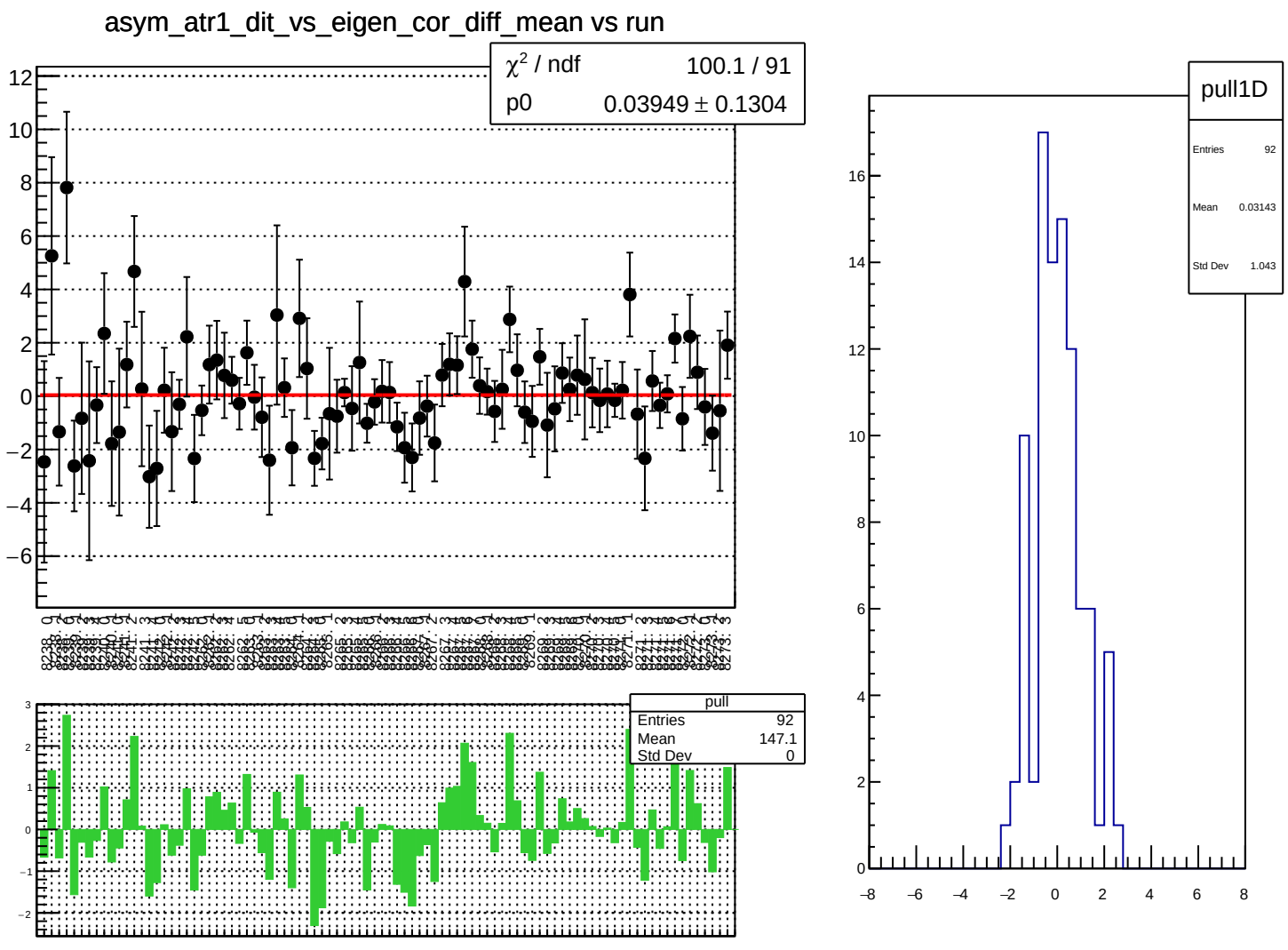

asym_atr1_rms vs run
χ² / ndf 2523 / 91
p0 3397 ± 2.546
3900
3800
3700
3600
3500
3400
3300
3200
3100

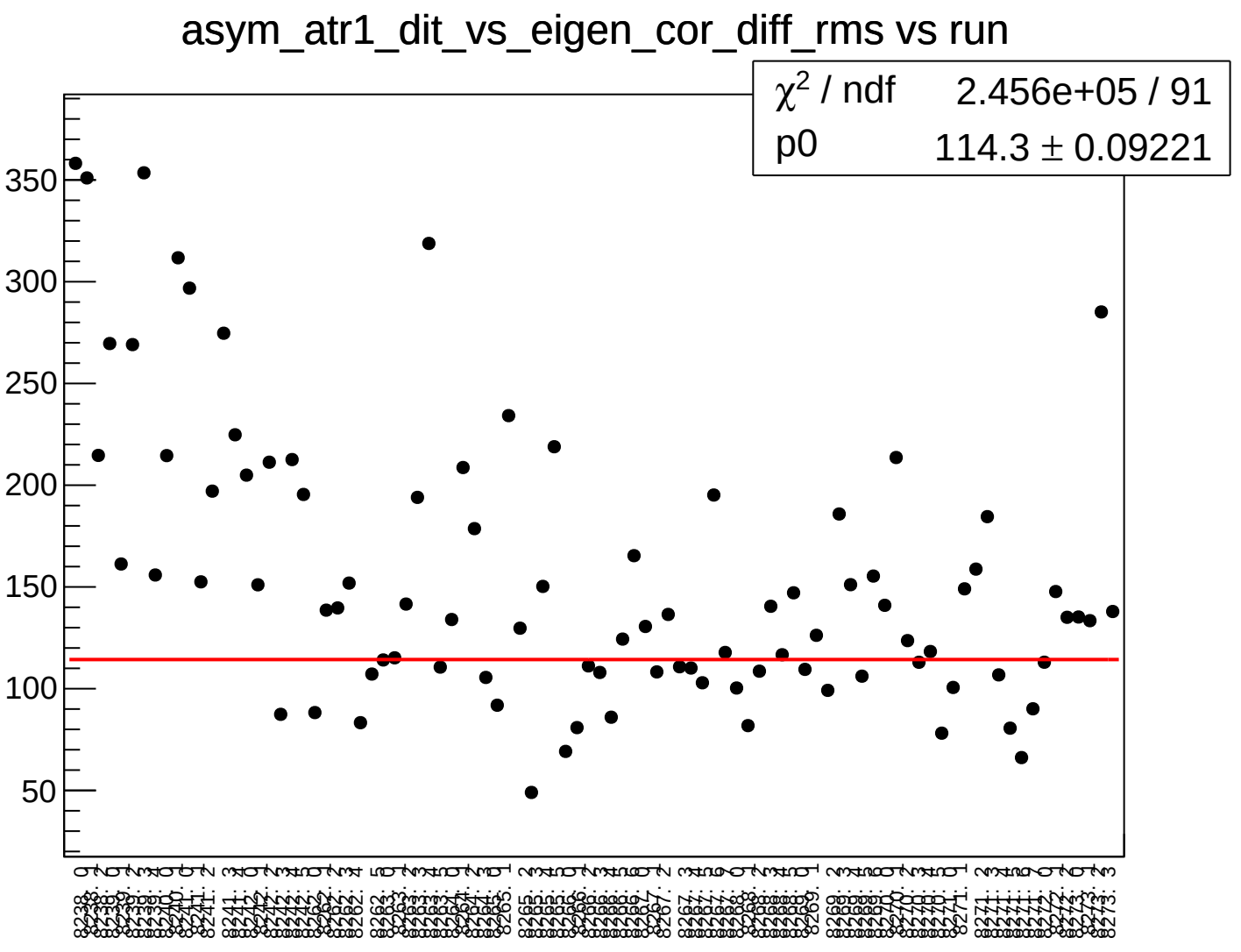

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 85.34 / 91
p0 2.434e−14 ± 1.501e−13
pull
Entries 92
Mean 18.59
Std Dev 0
pull1D
Entries 92
Mean 0.143
Std Dev 0.9525

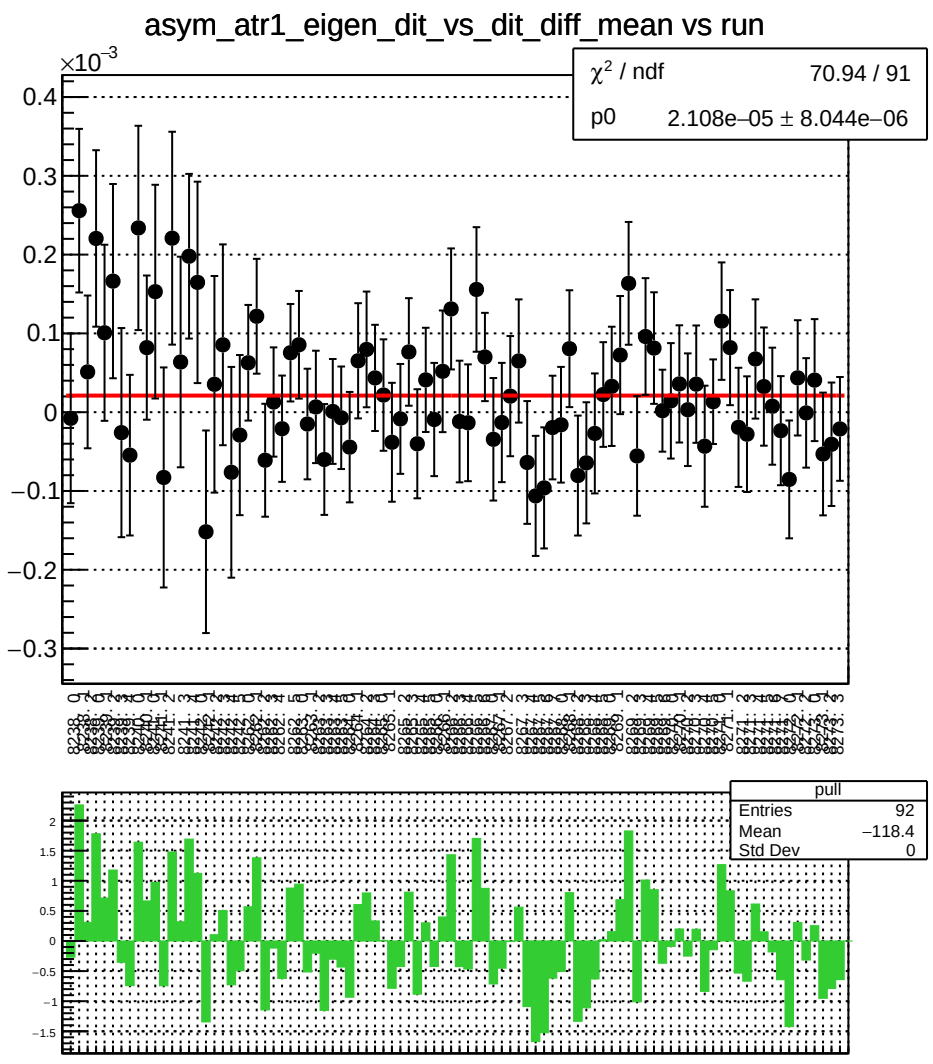

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.105e+06 / 91
p0 8.742e−11 ± 1.062e−13
1.2
1
0.8
0.6
0.4
0.2
0

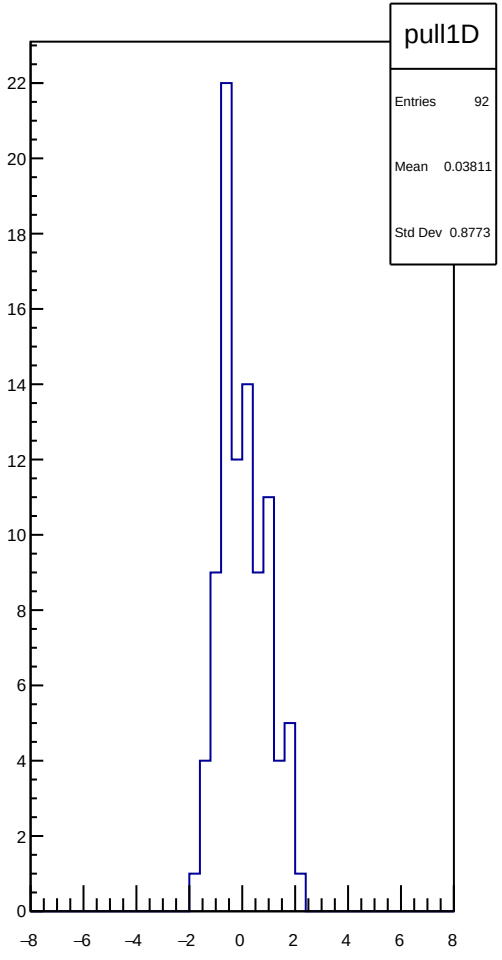

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 100.1 / 91
p0 0.03949 ± 0.1304
pull
Entries 92
Mean 147.1
Std Dev 0
pull1D
Entries 92
Mean 0.03143
Std Dev 1.043

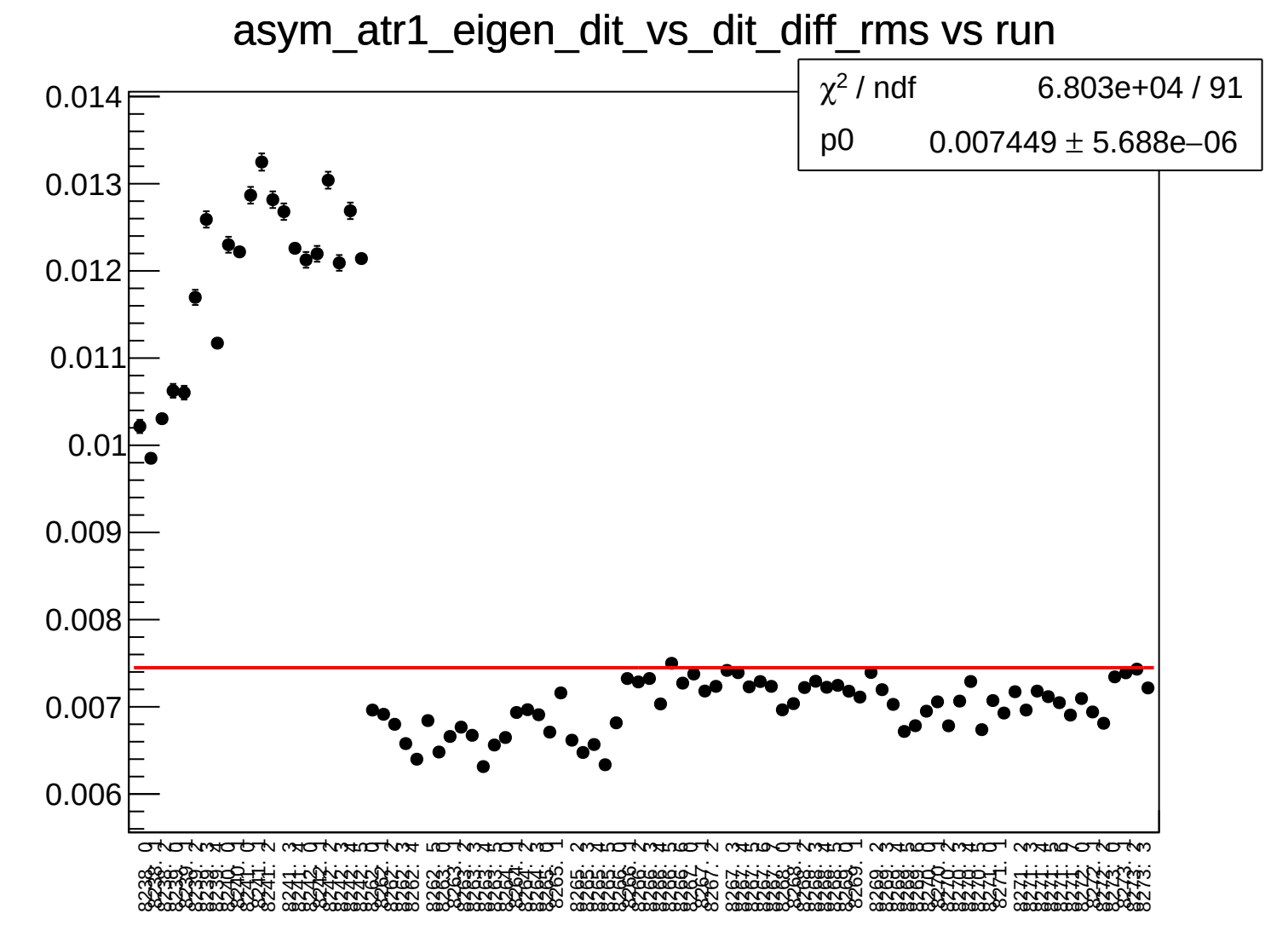

asym_atr1_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 2.456e+05 / 91
p0 114.3 ± 0.09221
350
300
250
200
150
100
50

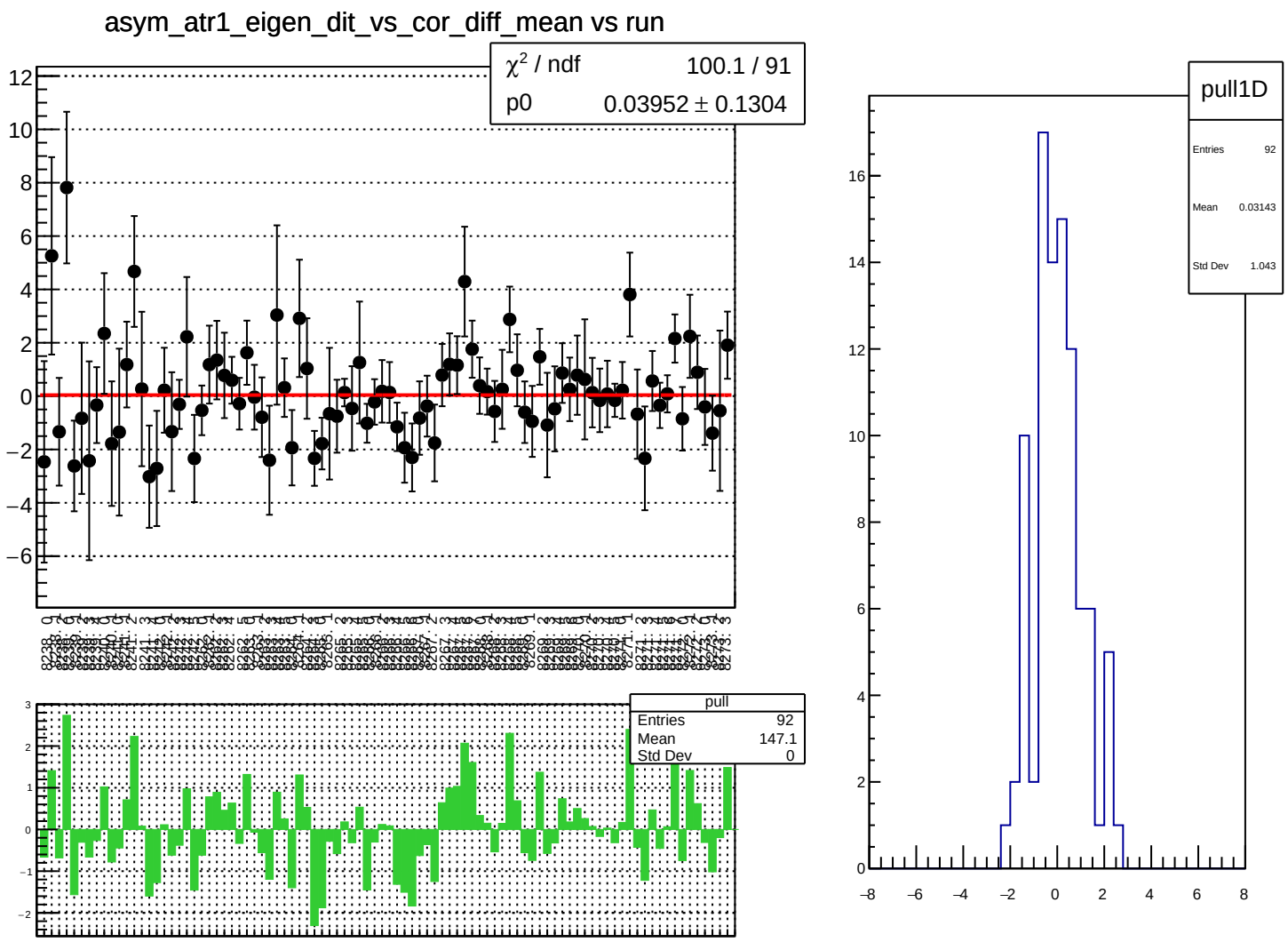

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.1 / 91
p0 0.03949 ± 0.1304
pull
Entries 92
Mean 147.1
Std Dev 0
pull1D
Entries 92
Mean 0.03143
Std Dev 1.043

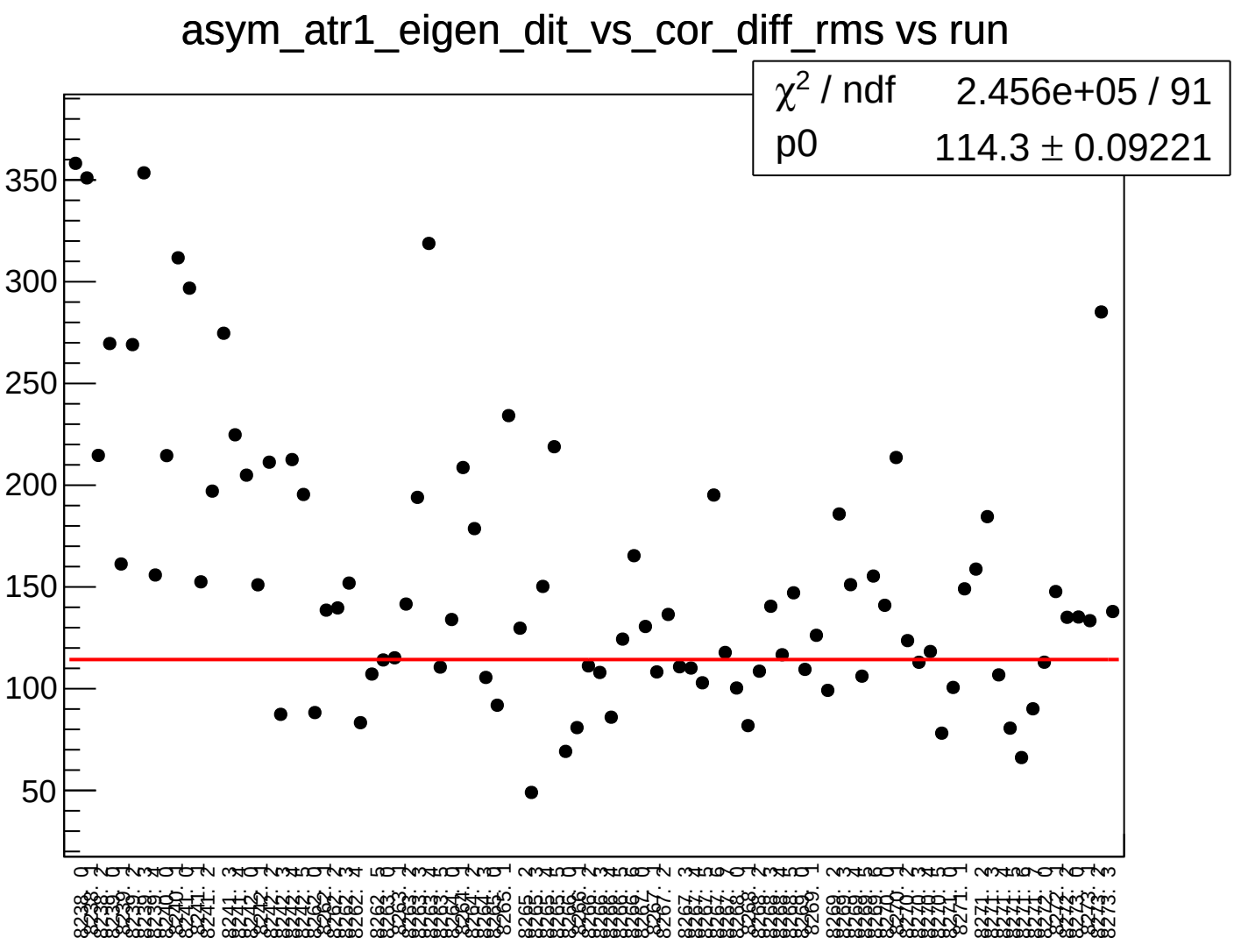

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.456e+05 / 91
p0 114.3 ± 0.09221
350
300
250
200
150
100
50

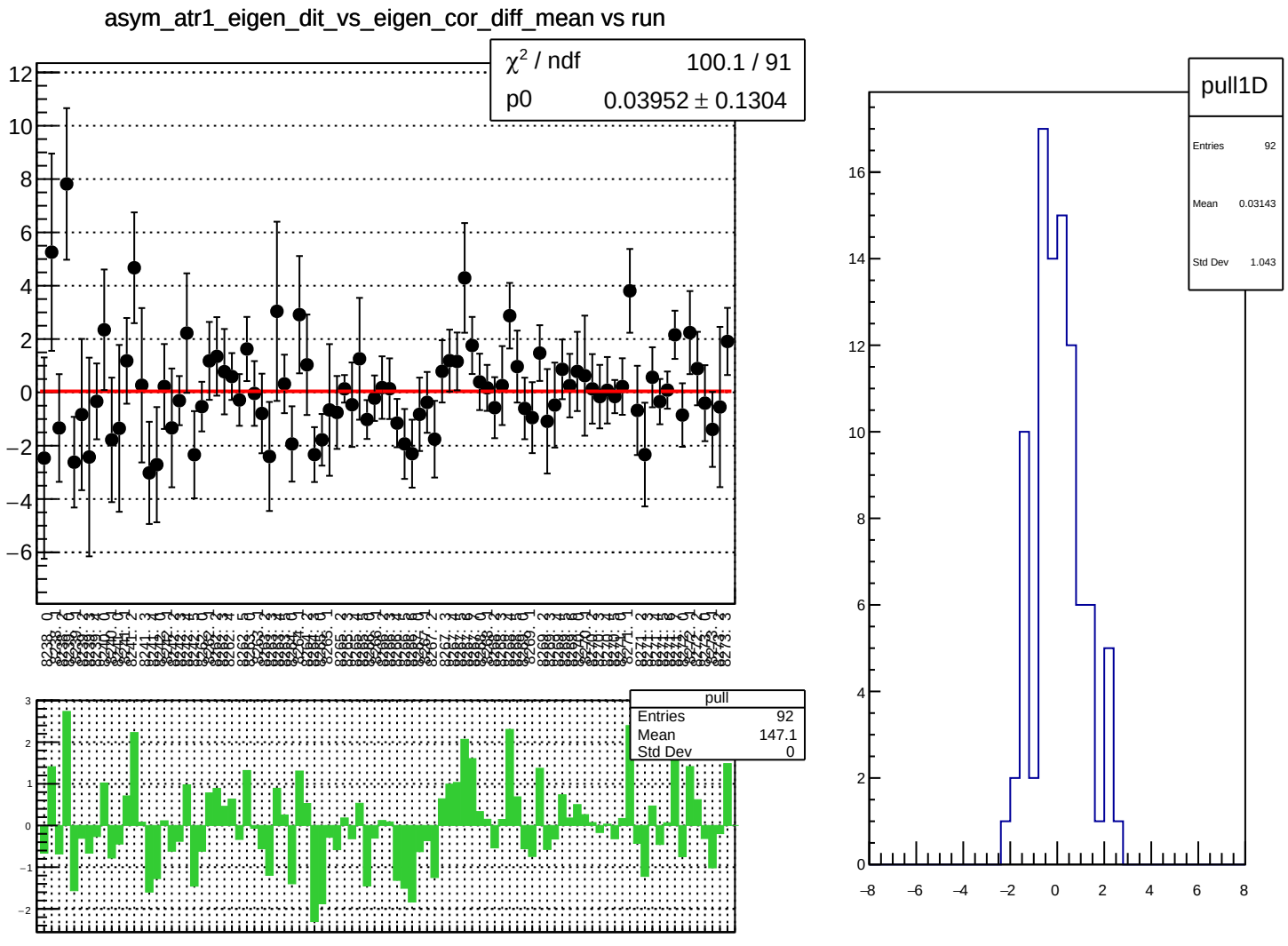

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.94 / 91
p0 2.108e−05 ± 8.044e−06
pull
Entries 92
Mean −118.4
Std Dev 0

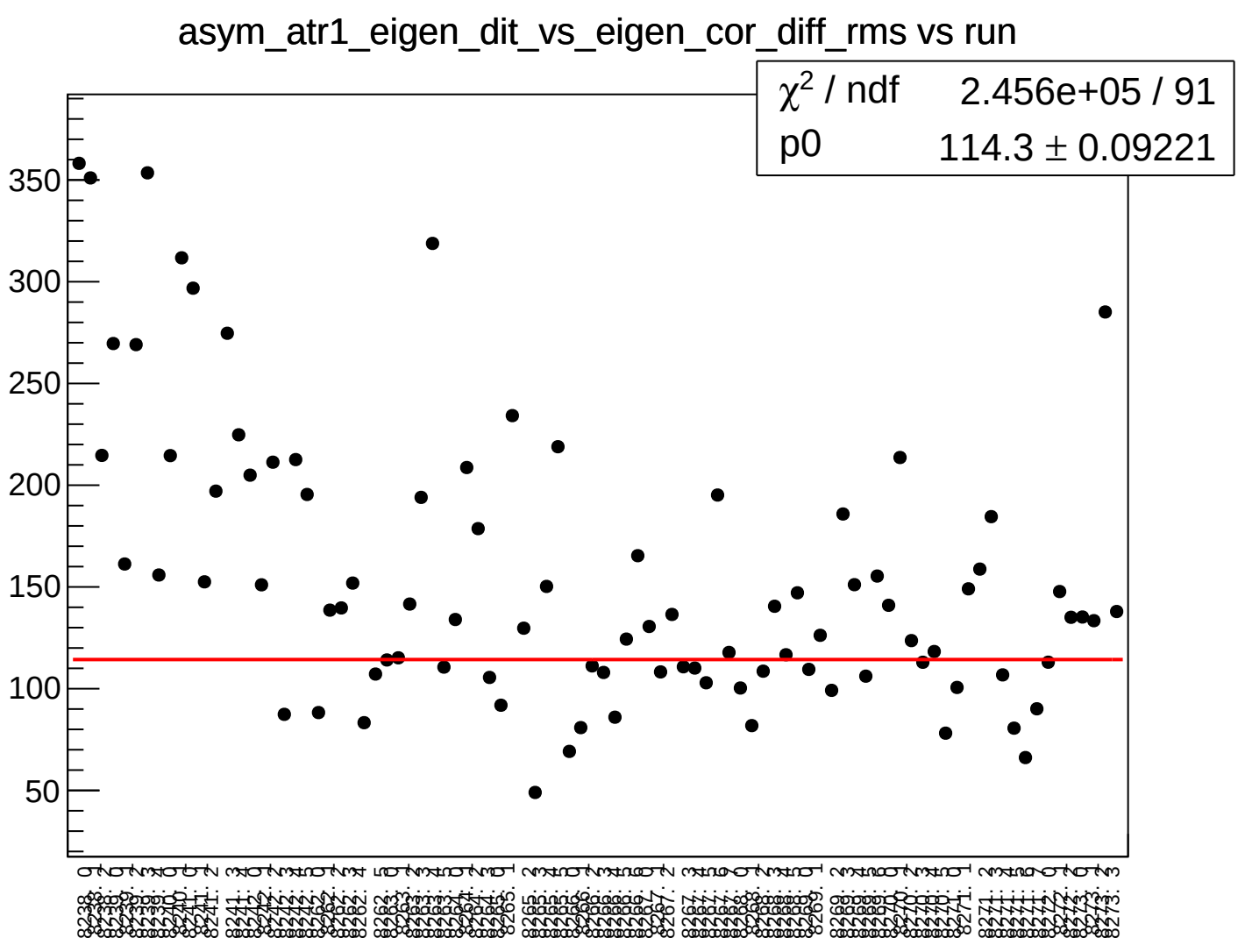

pull1D
Entries 92
Mean 0.03811
Std Dev 0.8773

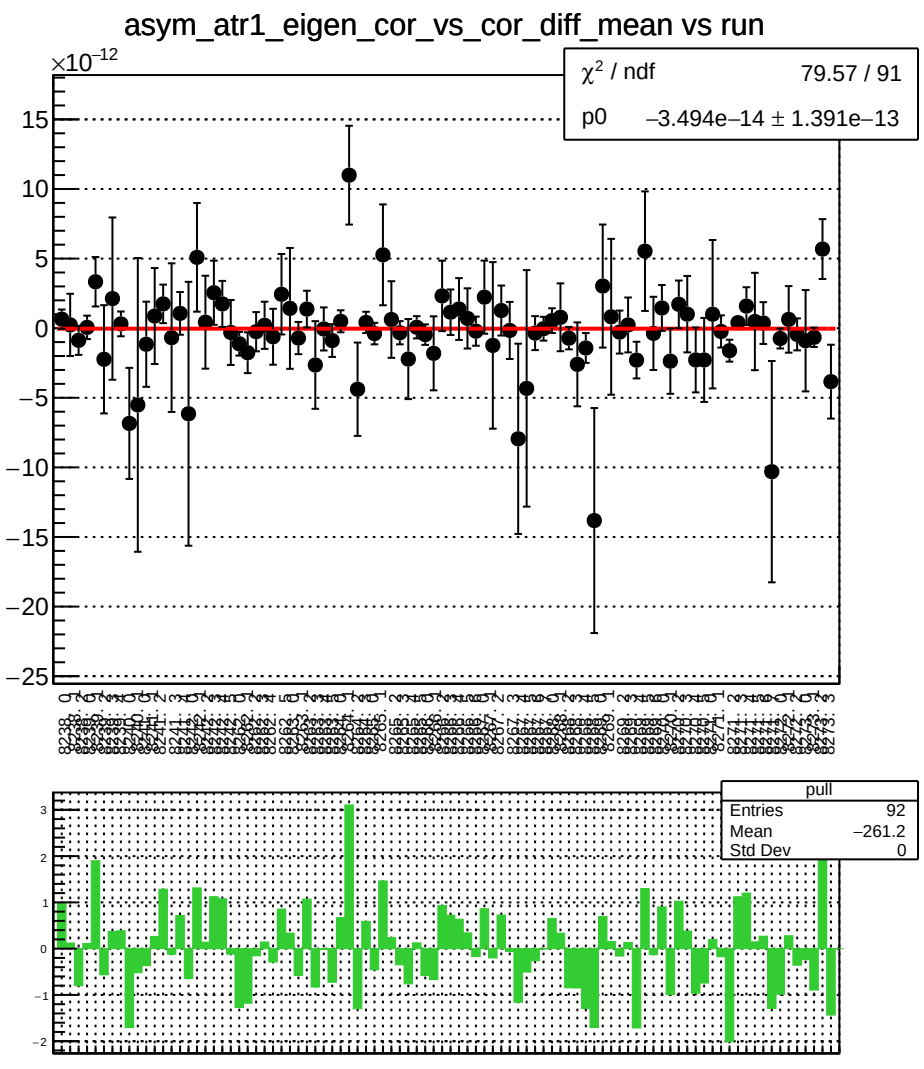

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.803e+04 / 91
p0 0.007449 ± 5.688e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

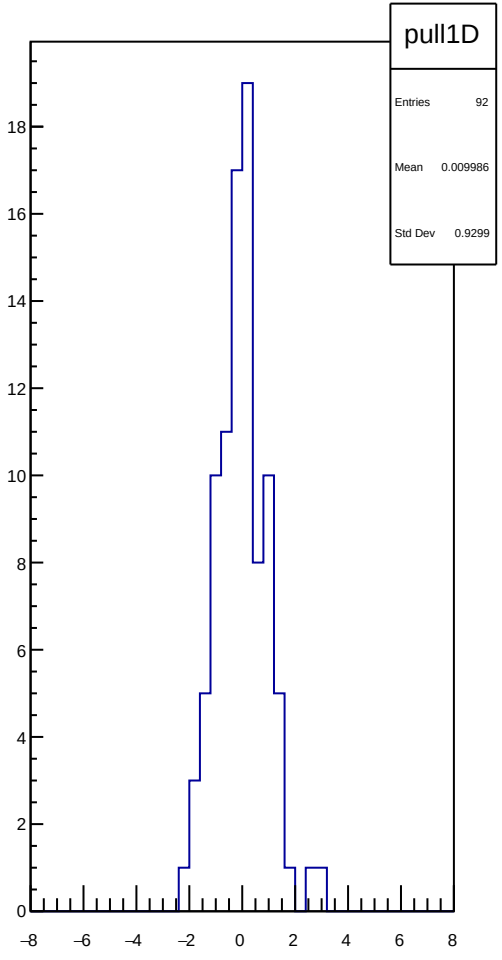

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.1 / 91
p0 0.03952 ± 0.1304
pull
Entries 92
Mean 147.1
Std Dev 0
pull1D
Entries 92
Mean 0.03143
Std Dev 1.043

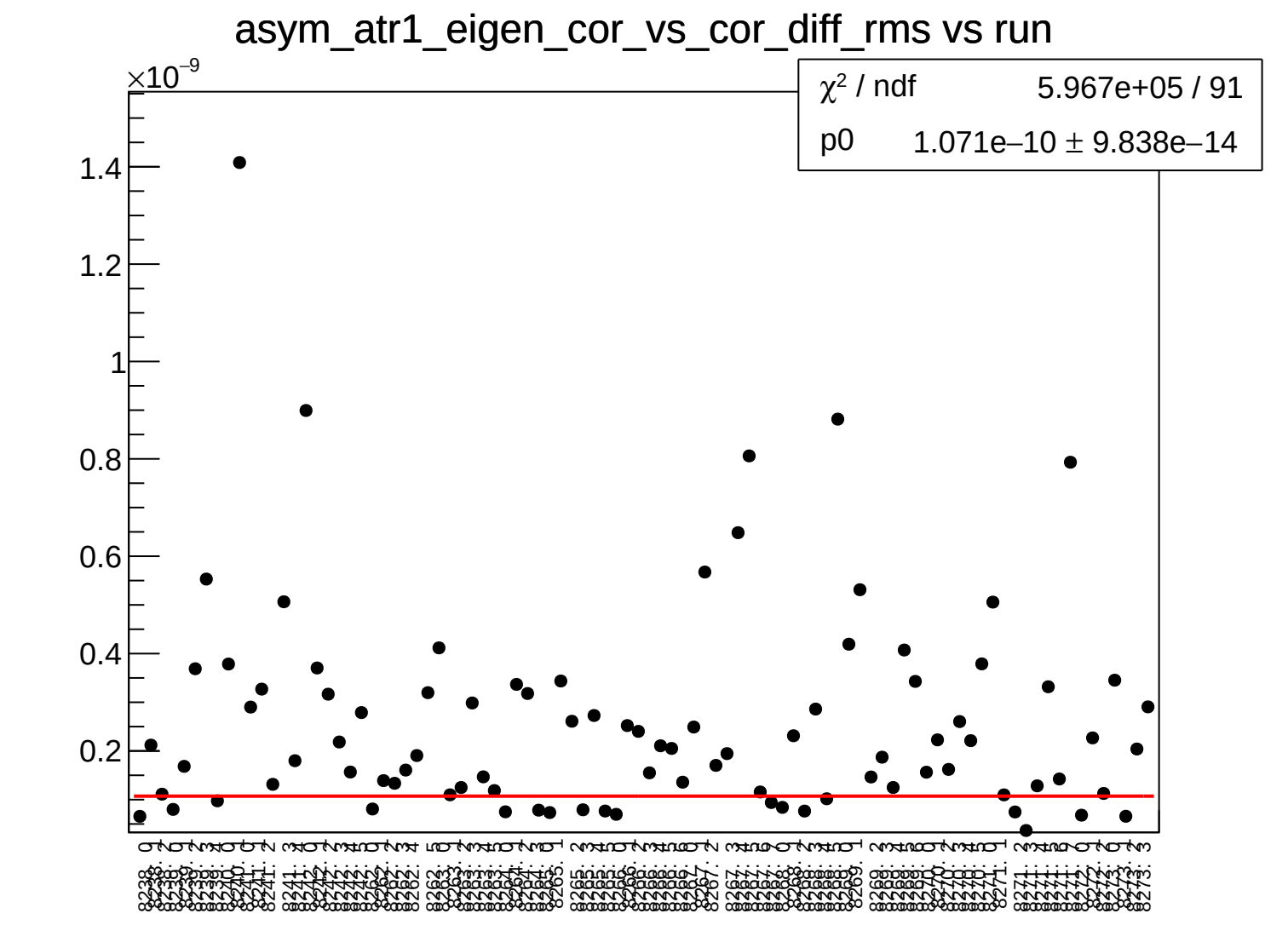

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.456e+05 / 91
p0 114.3 ± 0.09221
350
300
250
200
150
100
50

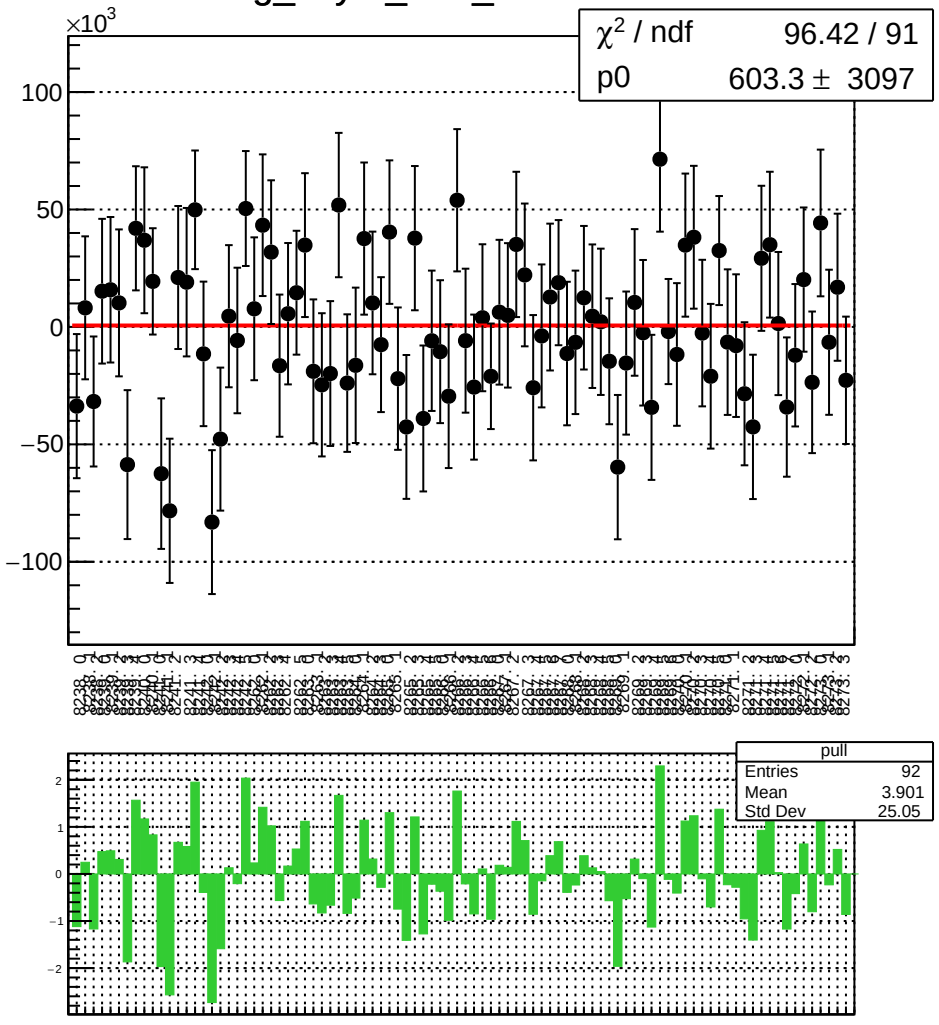

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.1 / 91
p0 0.03952 ± 0.1304
pull
Entries 92
Mean 147.1
Std Dev 0
pull1D
Entries 92
Mean 0.03143
Std Dev 1.043

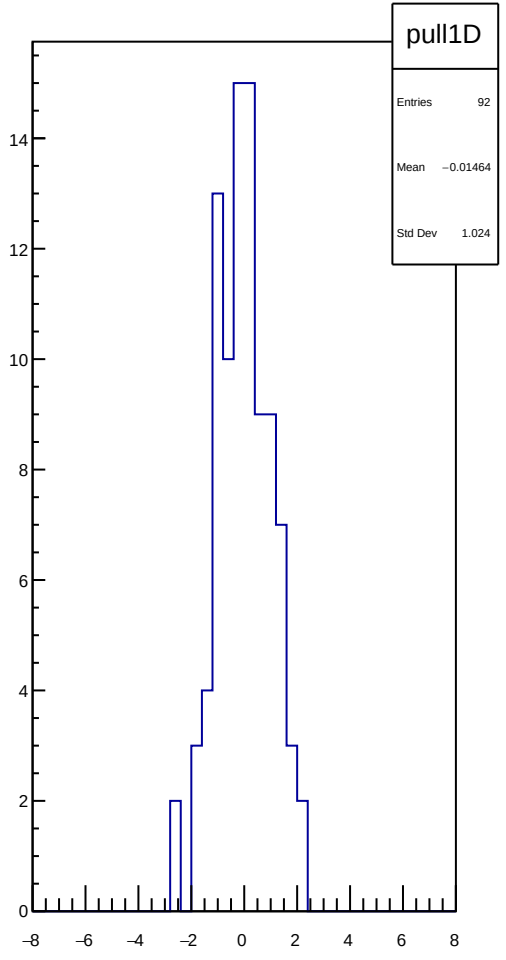

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.456e+05 / 91
p0 114.3 ± 0.09221
350
300
250
200
150
100
50

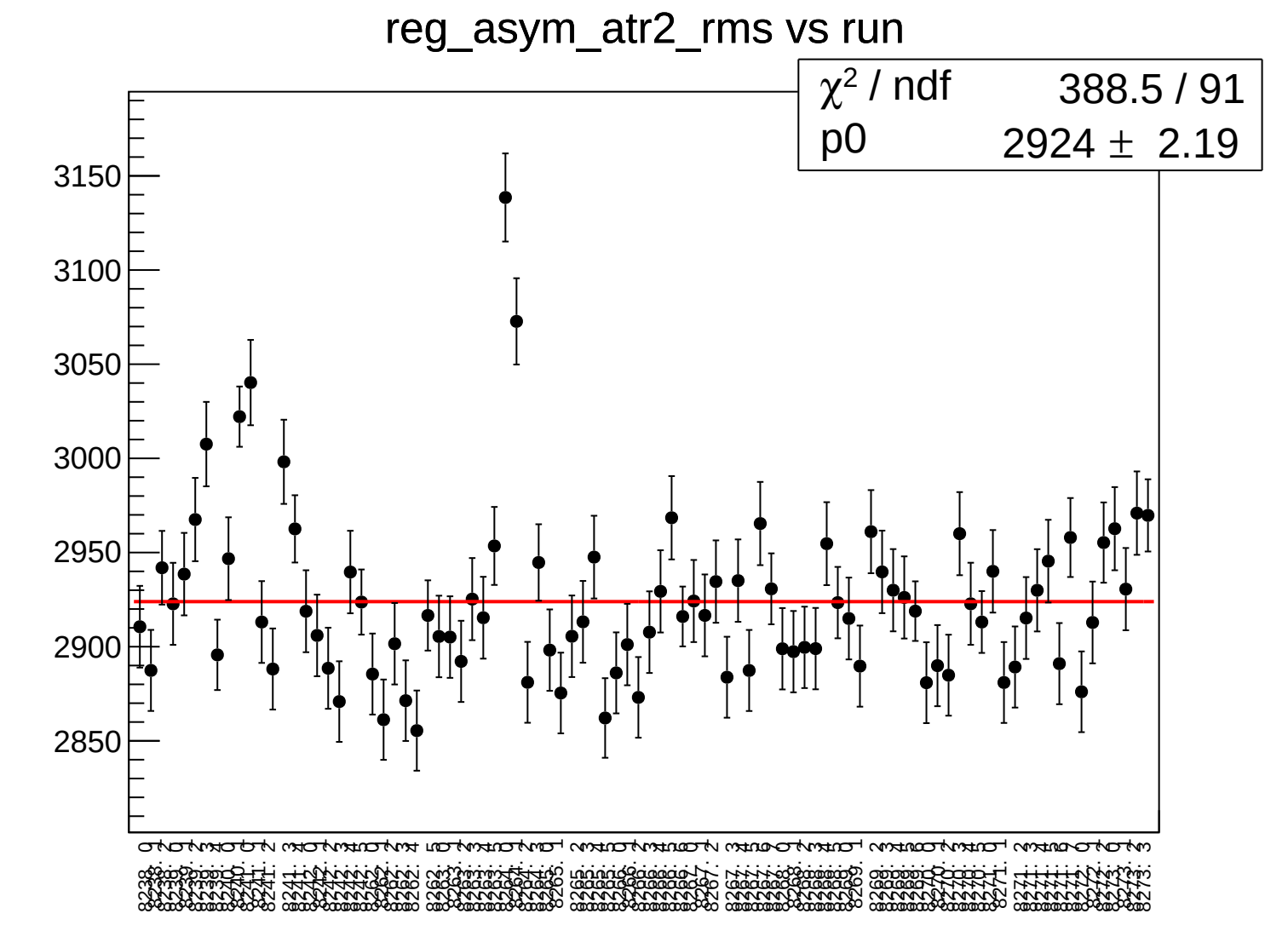

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.57 / 91
p0 −3.494e−14 ± 1.391e−13
pull
Entries 92
Mean −261.2
Std Dev 0

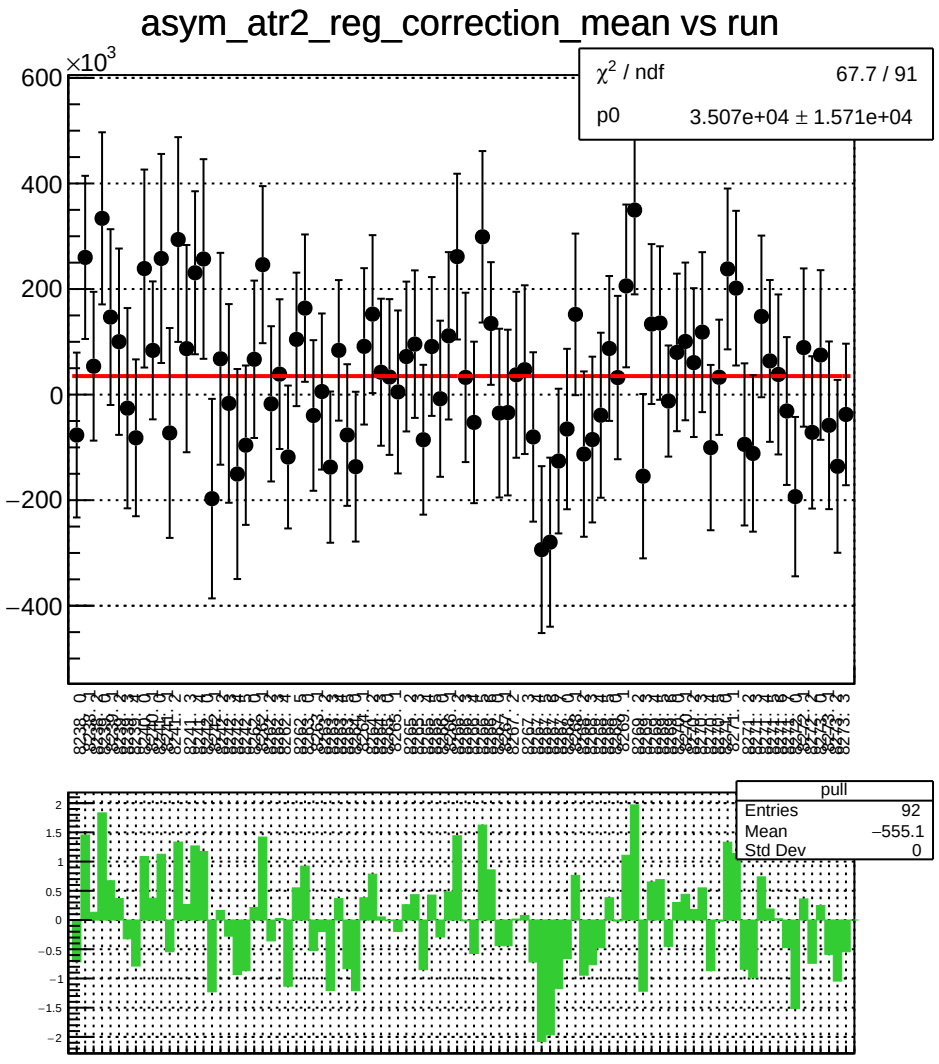

pull1D
Entries 92
Mean 0.009986
Std Dev 0.9299

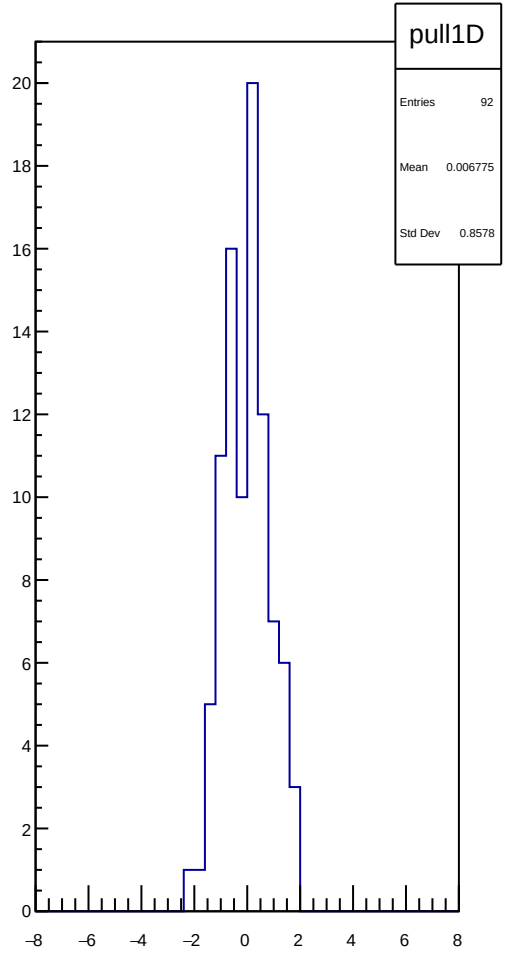

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.967e+05 / 91
p0 1.071e−10 ± 9.838e−14
1.4
1.2
1
0.8
0.6
0.4
0.2

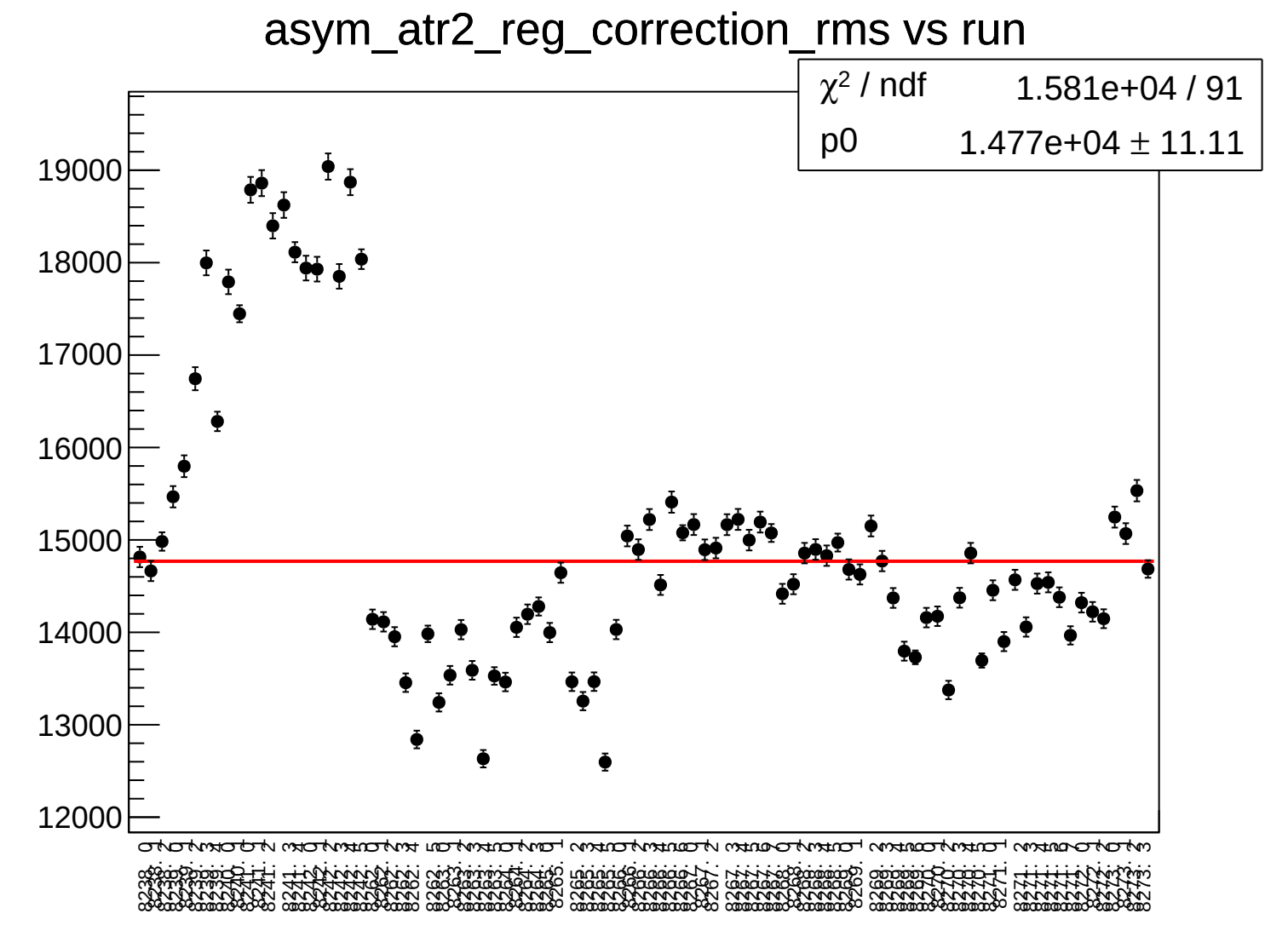

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 96.42 / 91
p0 603.3 ± 3097
100
50
0
−50
−100
pull
Entries 92
Mean 3.901
Std Dev 25.05
2
1
0
−1
−2

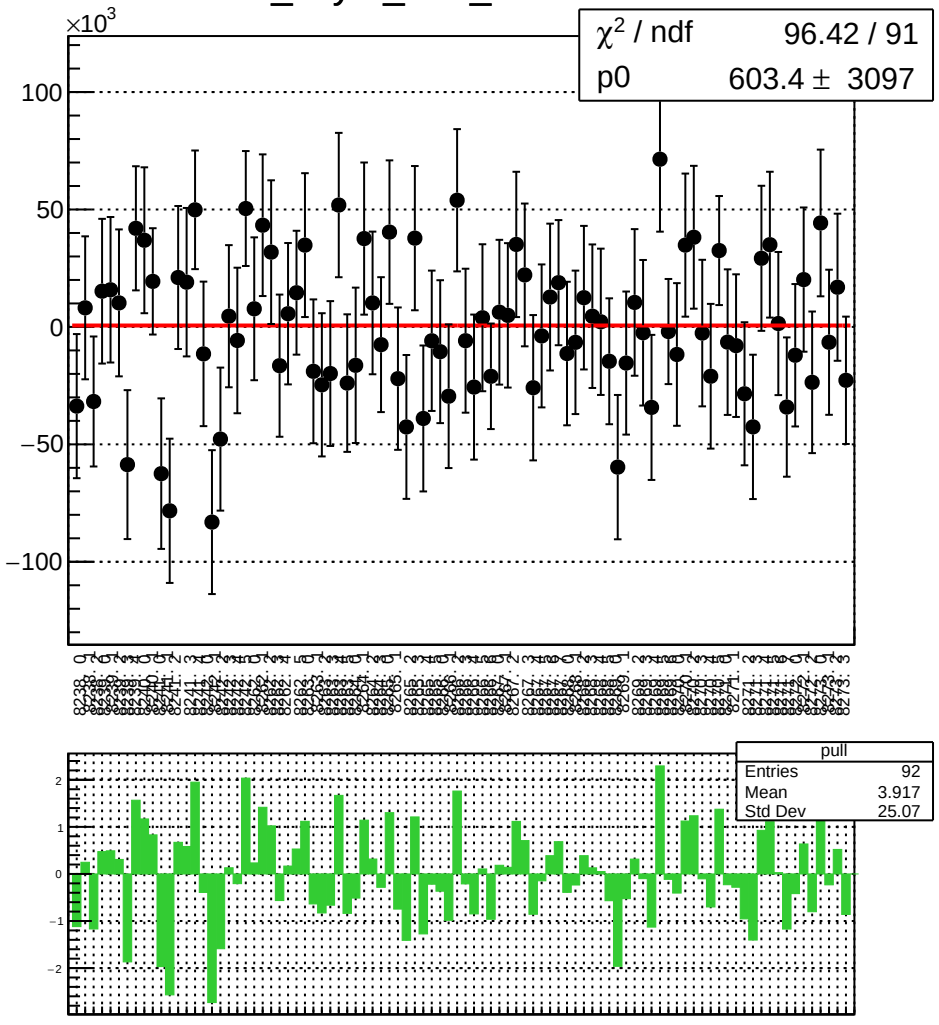

pull1D
Entries 92
Mean −0.01464
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

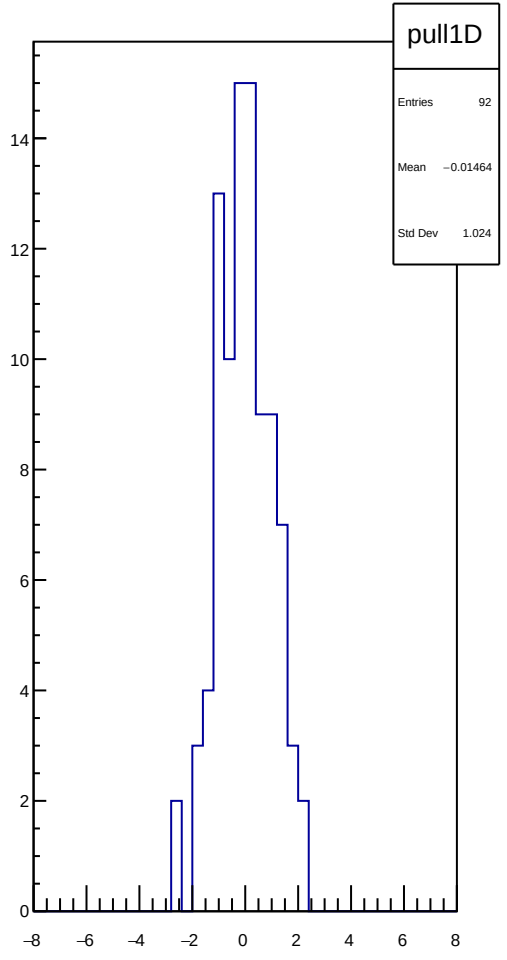

reg_asym_atr2_rms vs run
$\chi^2$ / ndf 388.5 / 91
p0 2924 ± 2.19
3150
3100
3050
3000
2950
2900
2850

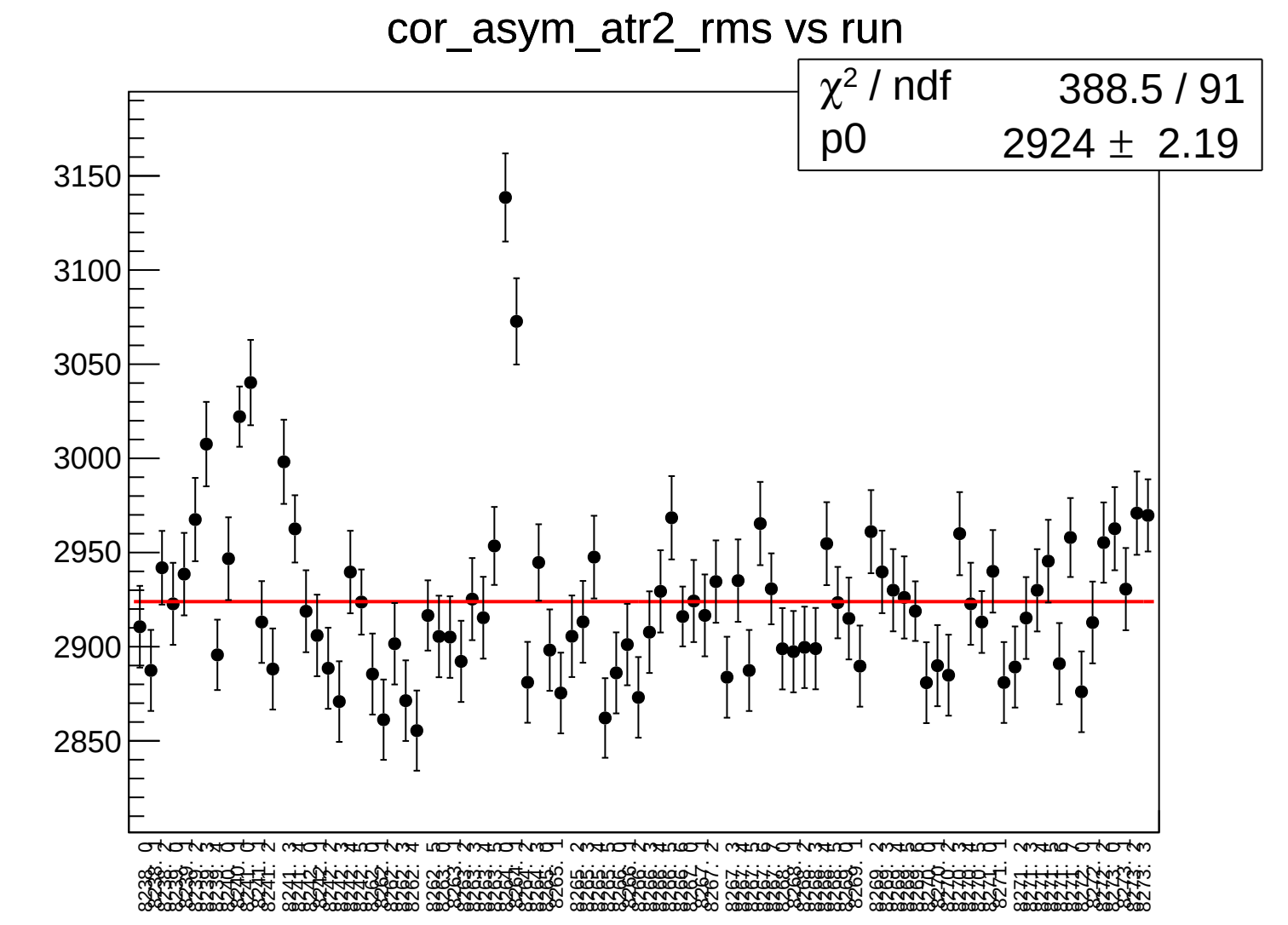

asym_atr2_reg_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 67.7 / 91
p0 3.507e+04 ± 1.571e+04
pull
Entries 92
Mean −555.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

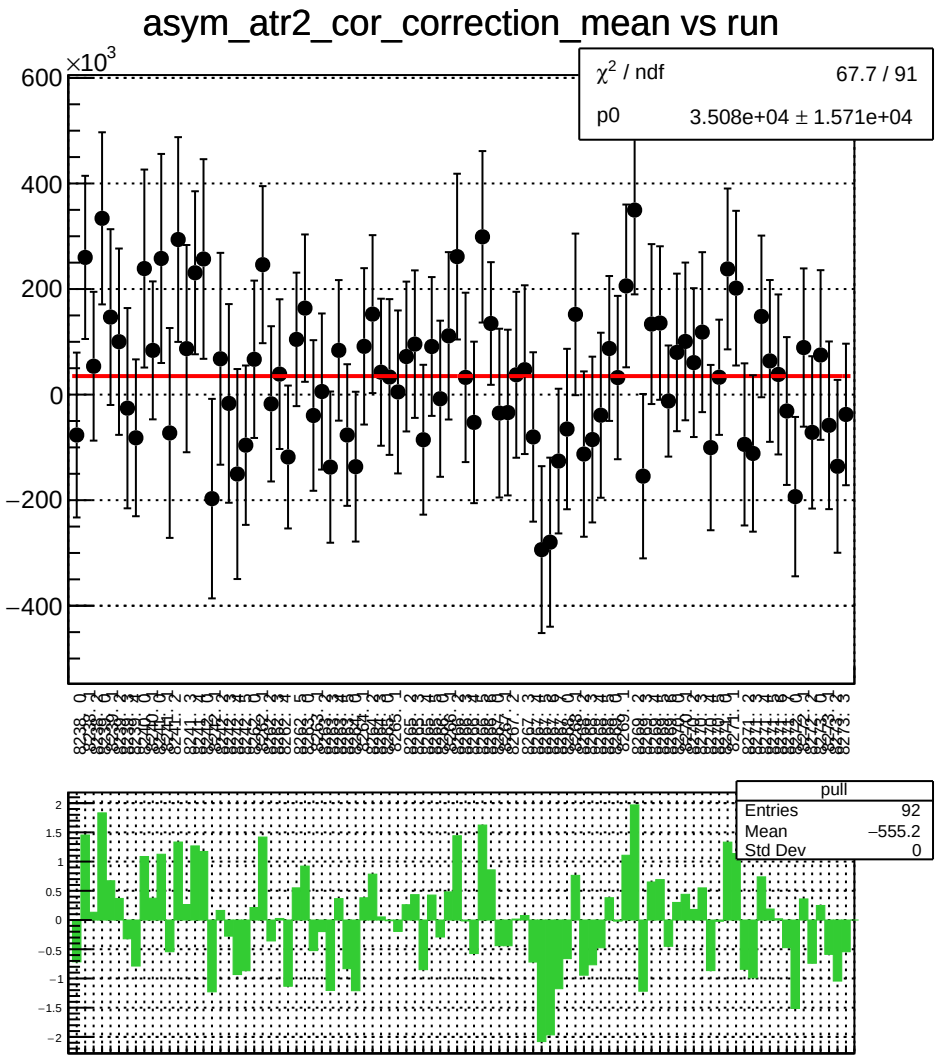

pull1D
Entries 92
Mean 0.006775
Std Dev 0.8578
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

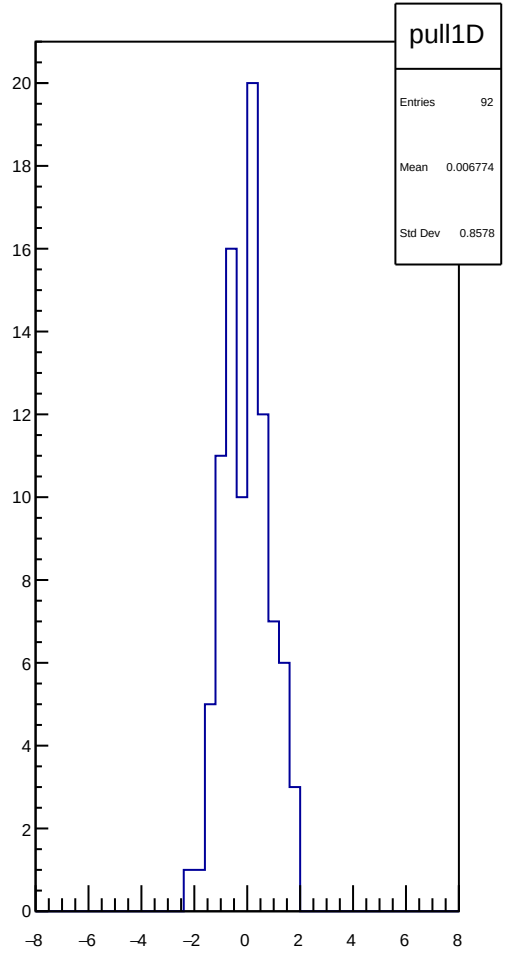

asym_atr2_reg_correction_rms vs run
χ² / ndf 1.581e+04 / 91
p0 1.477e+04 ± 11.11
19000
18000
17000
16000
15000
14000
13000
12000

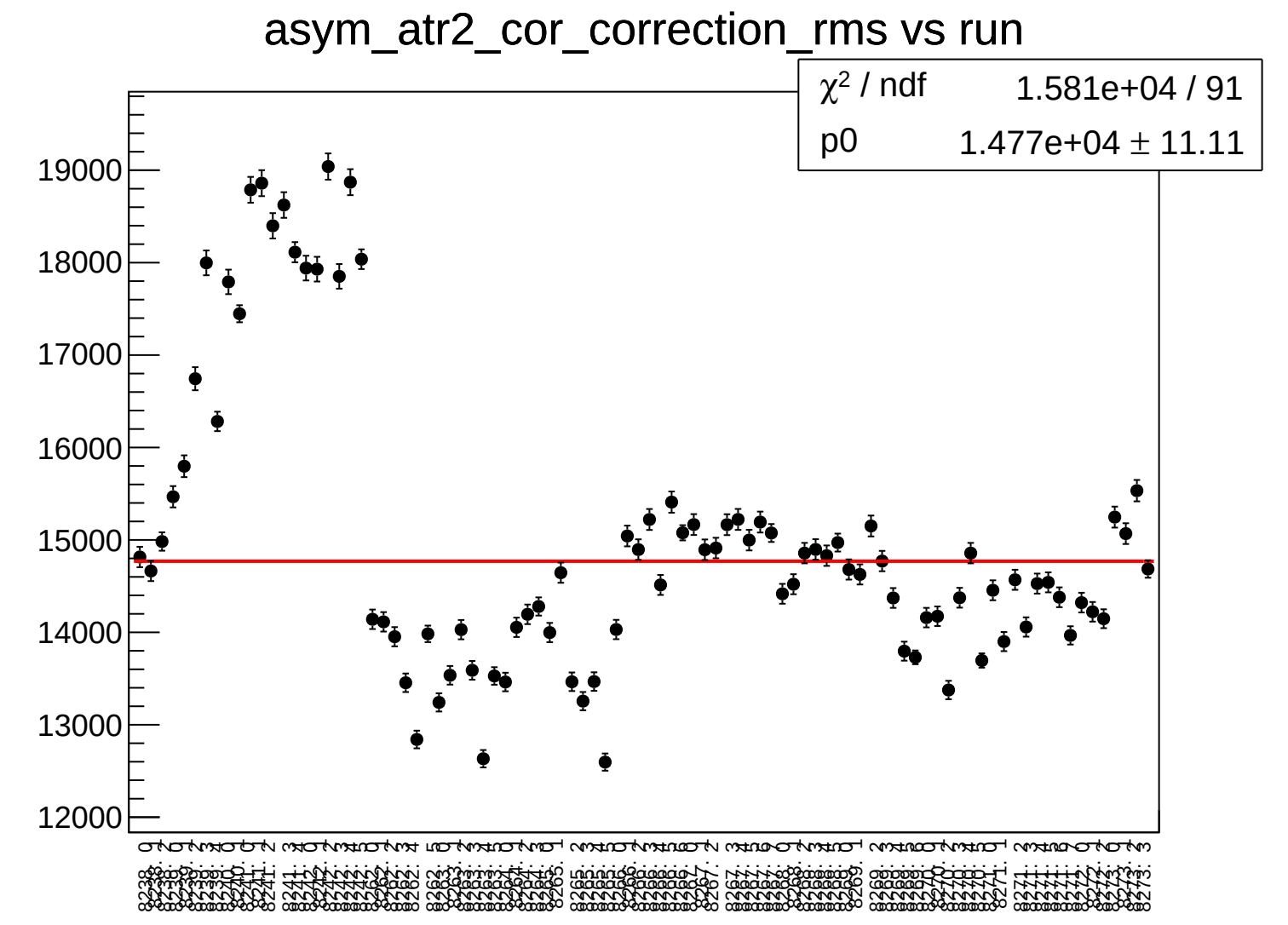

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 96.42 / 91
p0 603.4 ± 3097
100
50
0
−50
−100
pull
Entries 92
Mean 3.917
Std Dev 25.07
2
1
0
−1
−2

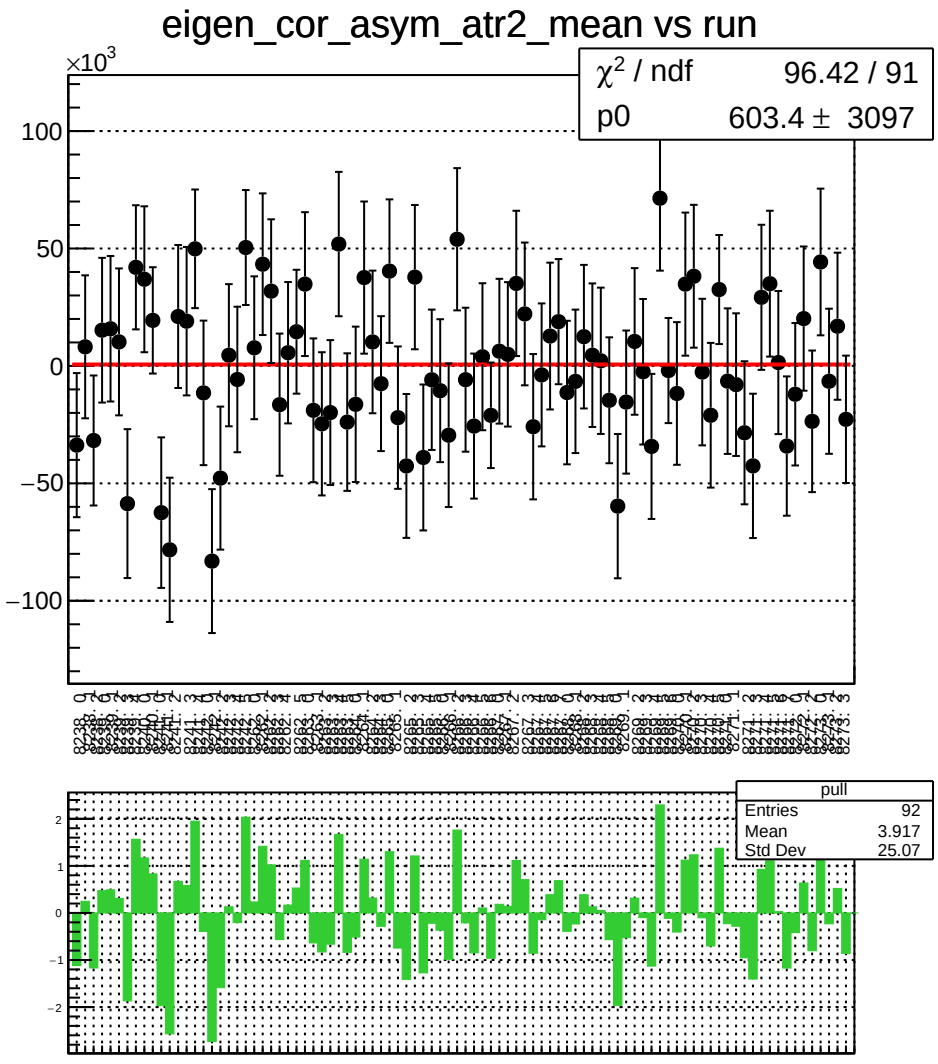

pull1D
Entries 92
Mean −0.01464
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

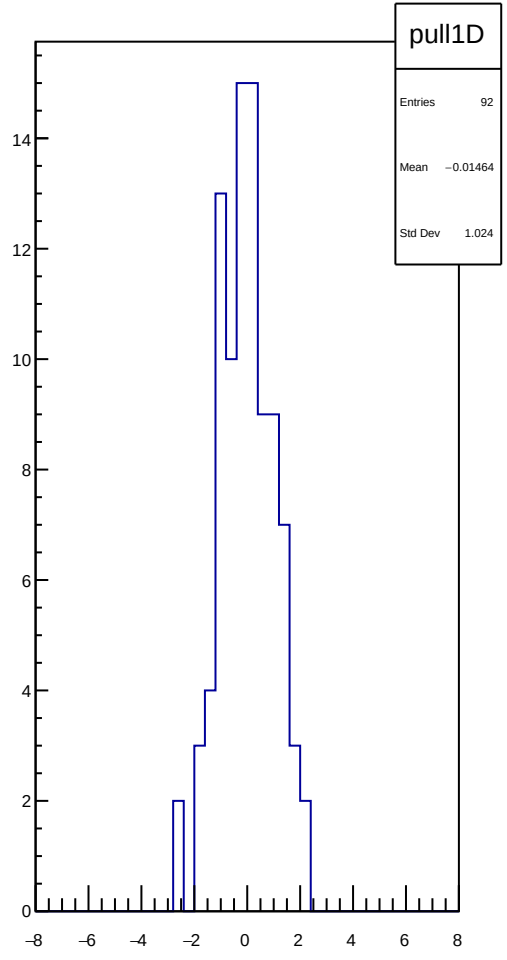

cor_asym_atr2_rms vs run
χ² / ndf 388.5 / 91
p0 2924 ± 2.19
3150
3100
3050
3000
2950
2900
2850

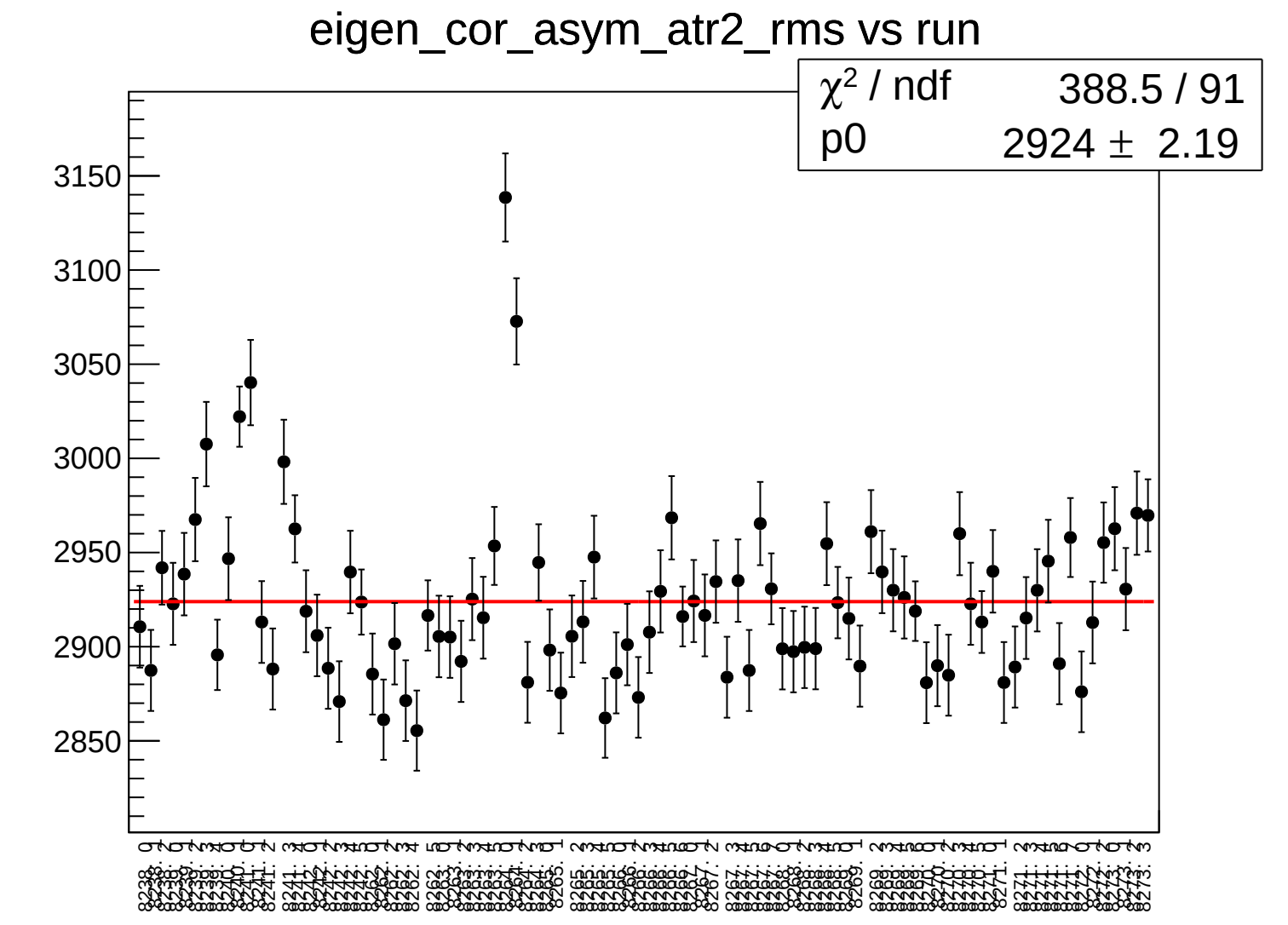

asym_atr2_cor_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 67.7 / 91
p0 3.508e+04 ± 1.571e+04
pull
Entries 92
Mean −555.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

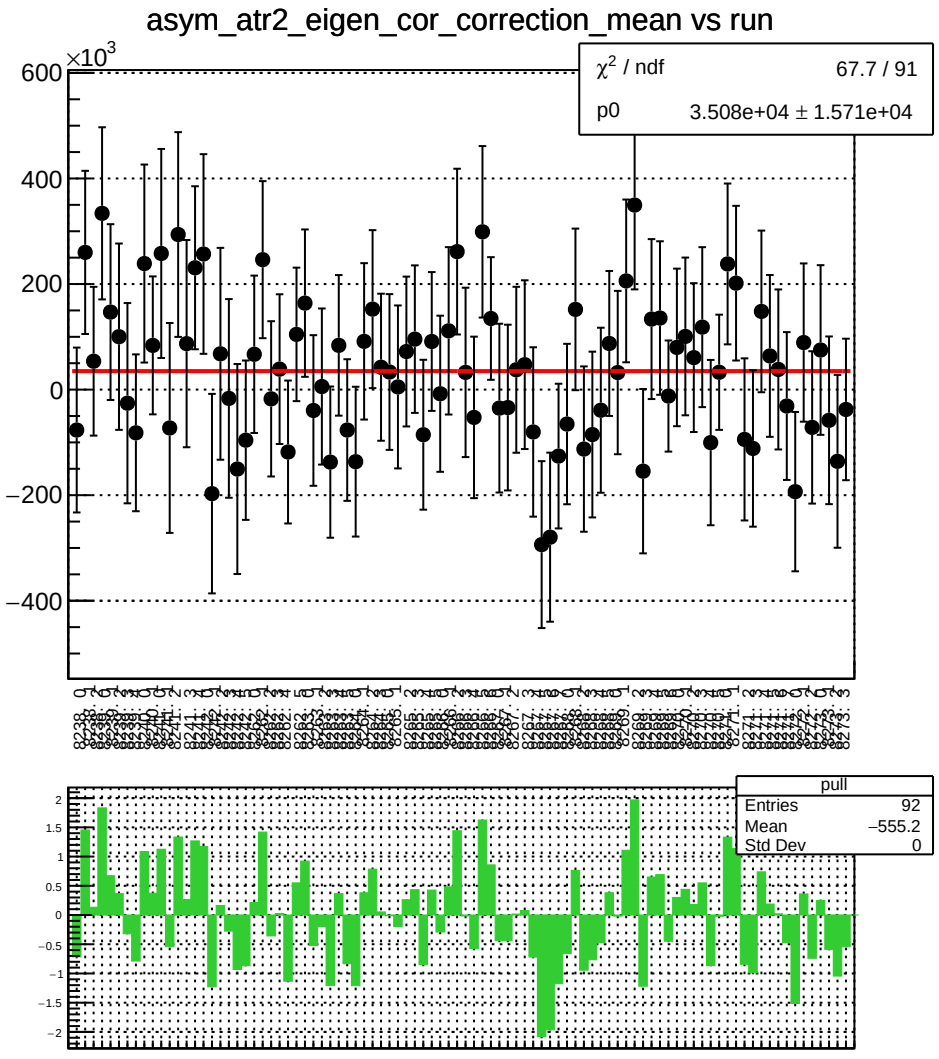

pull1D
Entries 92
Mean 0.006774
Std Dev 0.8578
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

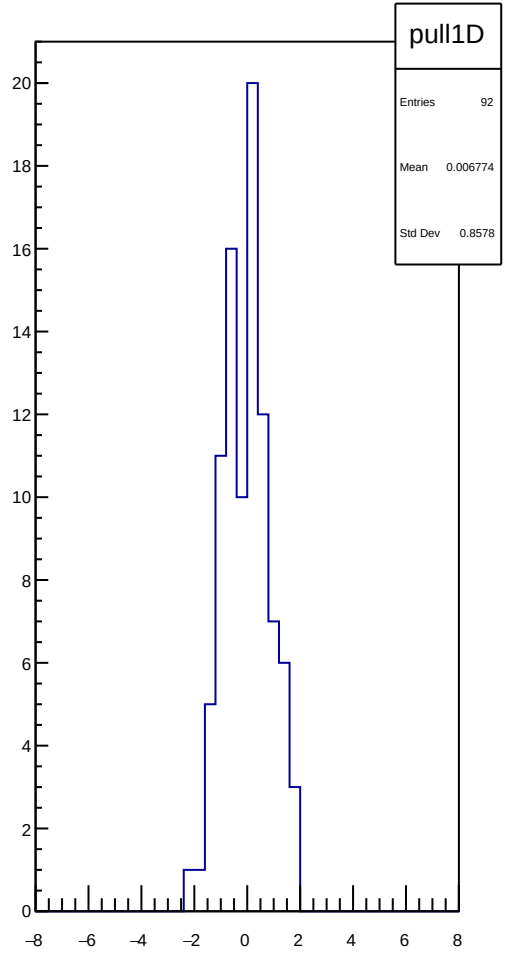

asym_atr2_cor_correction_rms vs run
χ² / ndf 1.581e+04 / 91
p0 1.477e+04 ± 11.11
19000
18000
17000
16000
15000
14000
13000
12000

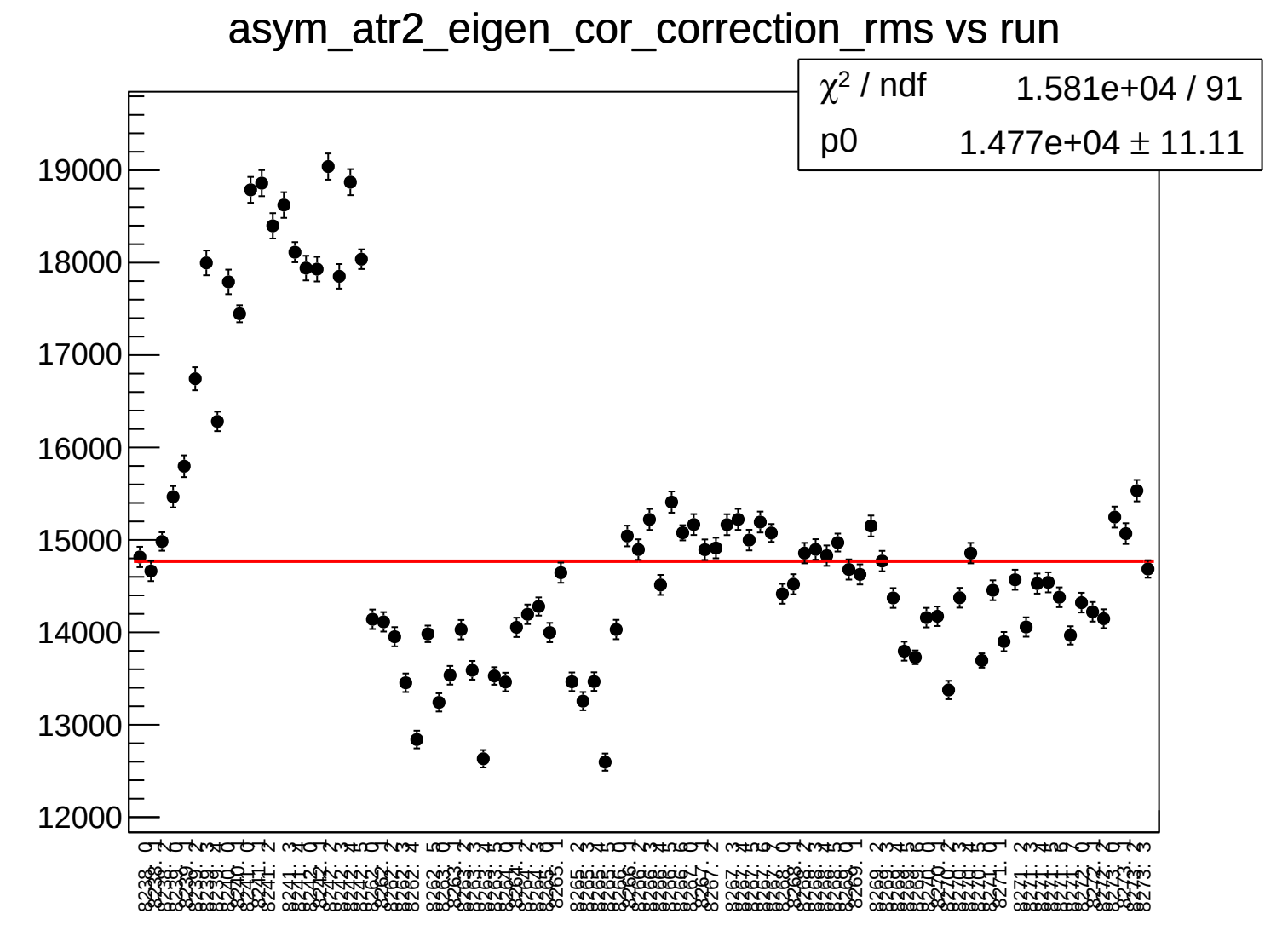

eigen_cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 96.42 / 91
p0 603.4 ± 3097
100
50
0
−50
−100
pull
Entries 92
Mean 3.917
Std Dev 25.07
2
1
0
−1
−2

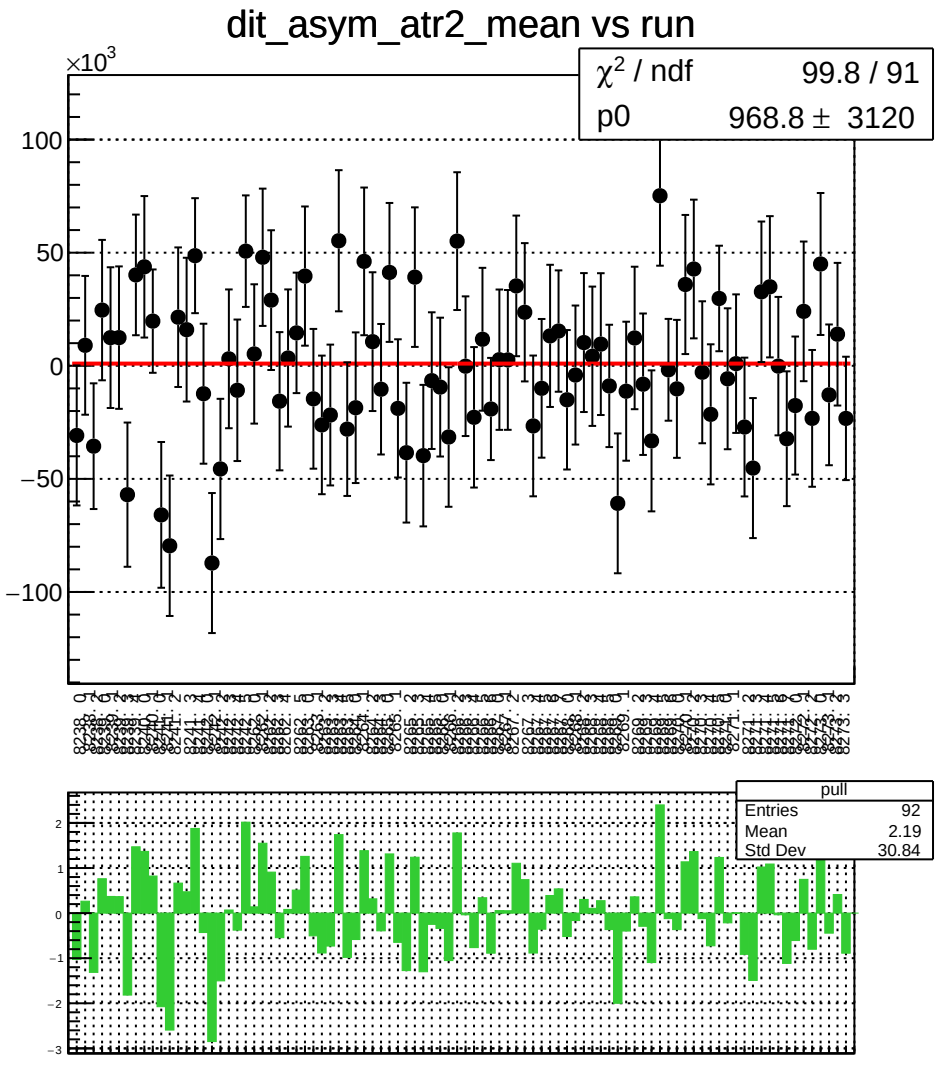

pull1D
Entries 92
Mean −0.01464
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

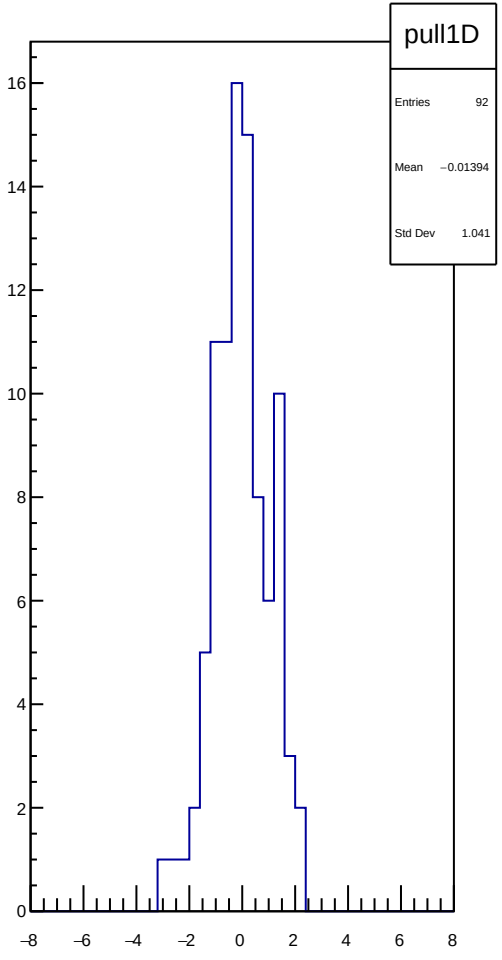

eigen_cor_asym_atr2_rms vs run
χ² / ndf 388.5 / 91
p0 2924 ± 2.19
3150
3100
3050
3000
2950
2900
2850

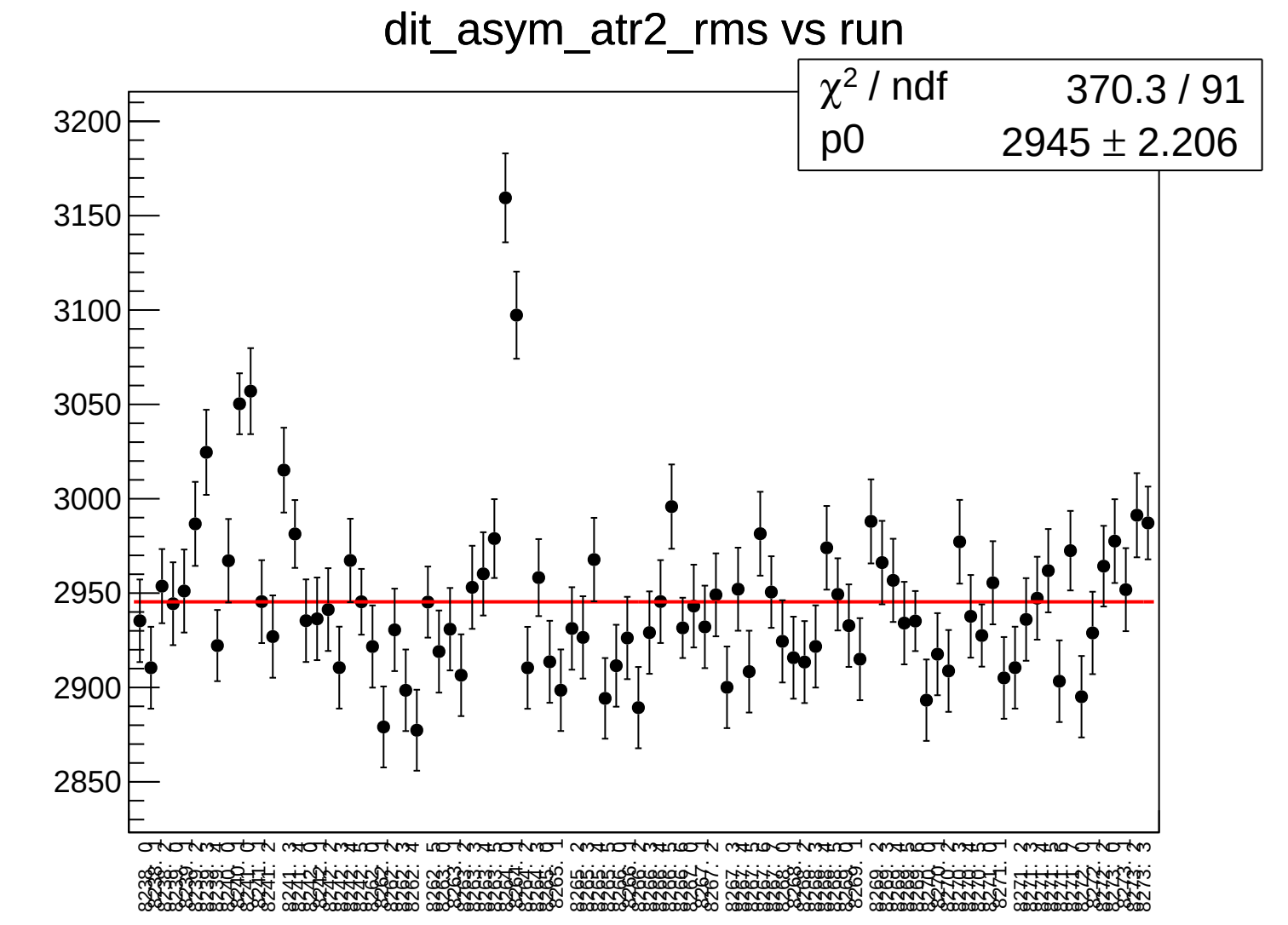

asym_atr2_eigen_cor_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 67.7 / 91
p0 3.508e+04 ± 1.571e+04
pull
Entries 92
Mean −555.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

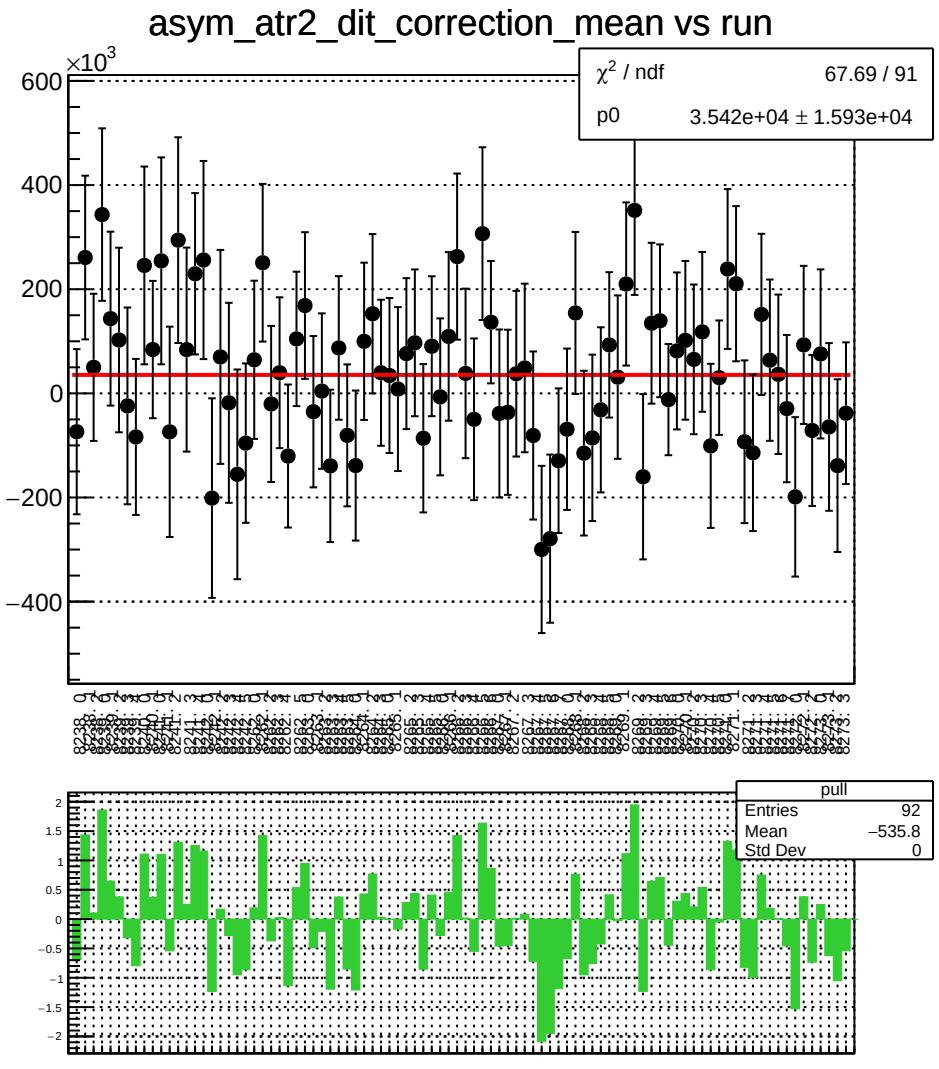

pull1D
Entries 92
Mean 0.006774
Std Dev 0.8578
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

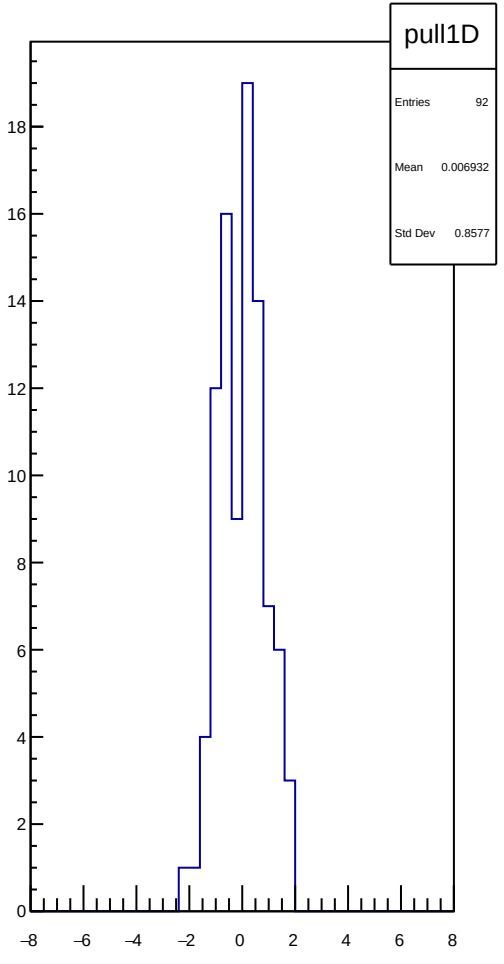

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 1.581e+04 / 91
p0 1.477e+04 ± 11.11
19000
18000
17000
16000
15000
14000
13000
12000

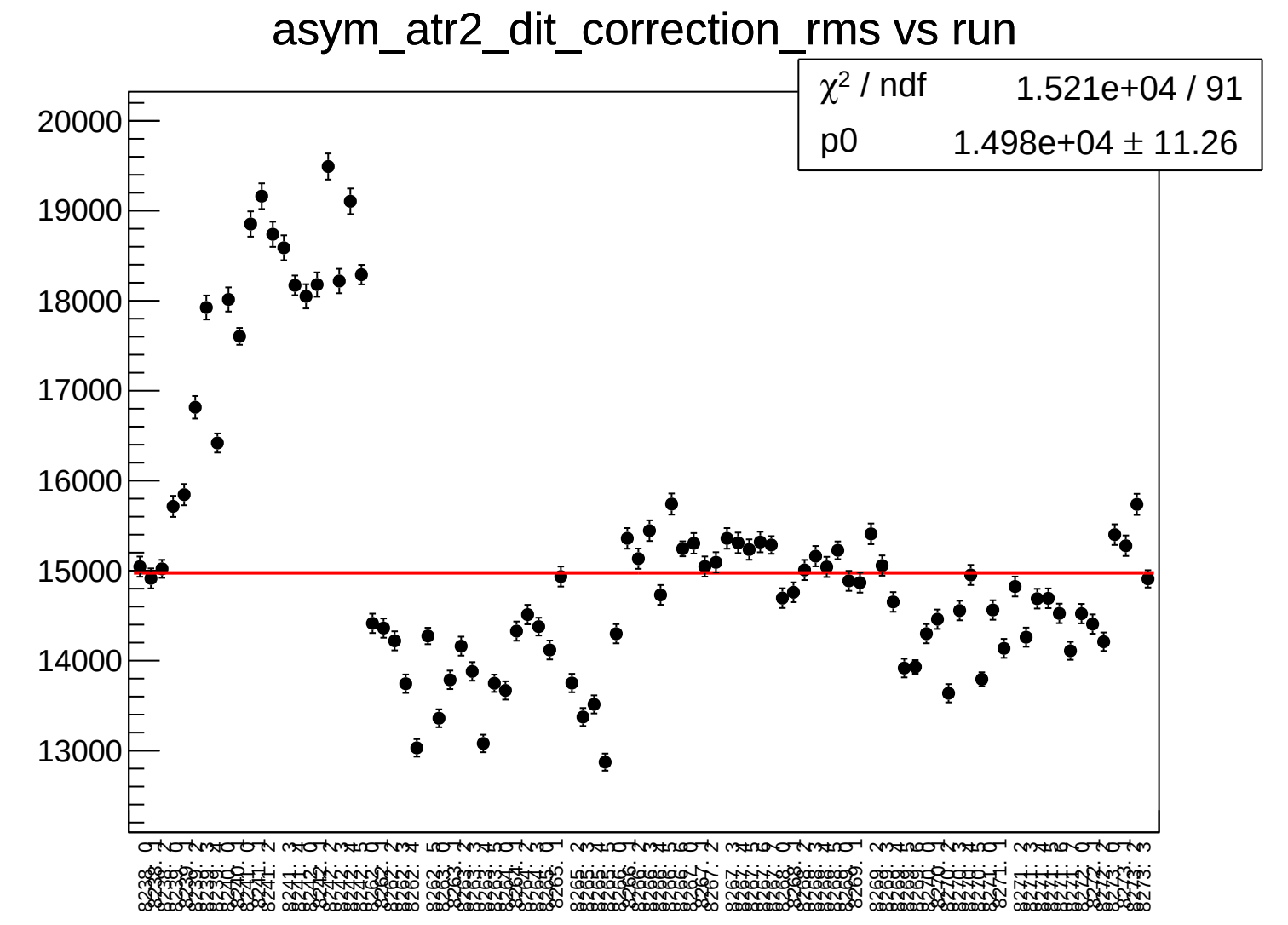

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 99.8 / 91
p0 968.8 ± 3120
100
50
0
−50
−100
pull
Entries 92
Mean 2.19
Std Dev 30.84
2
1
0
−1
−2
−3

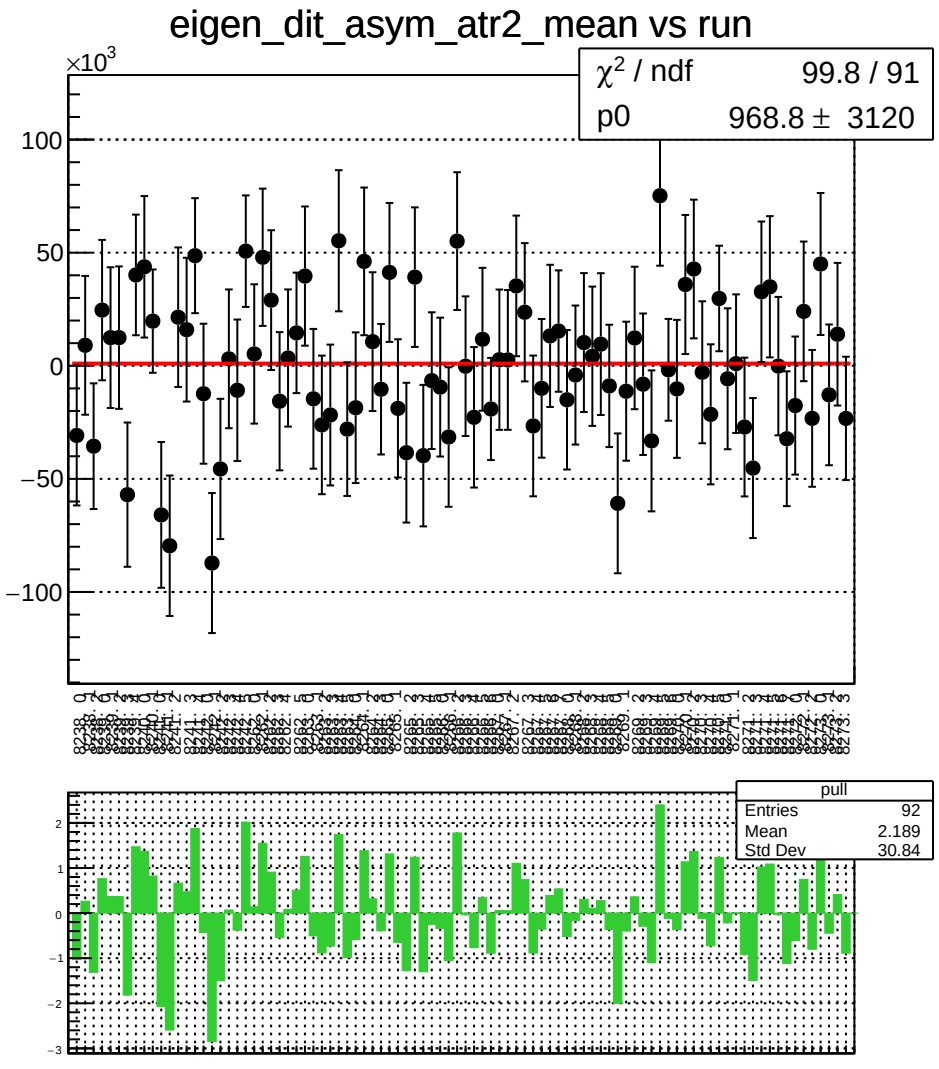

pull1D
Entries 92
Mean −0.01394
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

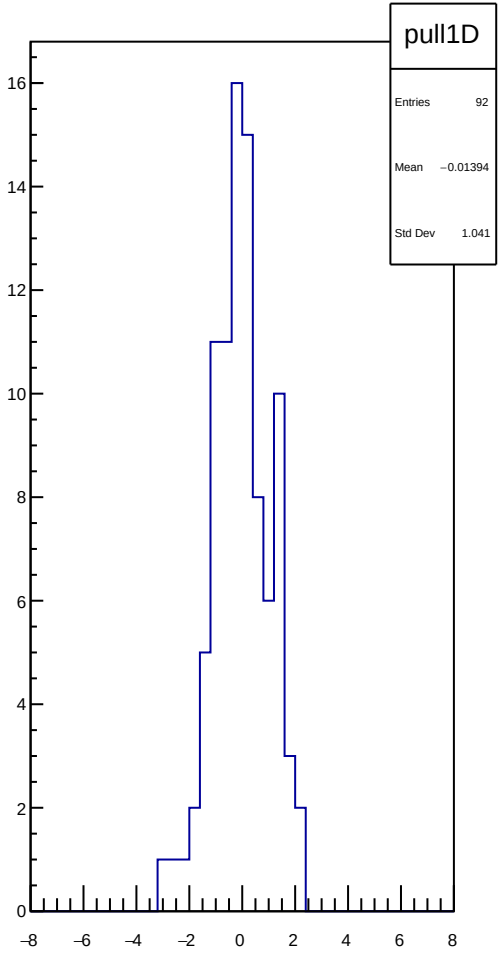

dit_asym_atr2_rms vs run
$\chi^2$ / ndf 370.3 / 91
p0 2945 ± 2.206
3200
3150
3100
3050
3000
2950
2900
2850

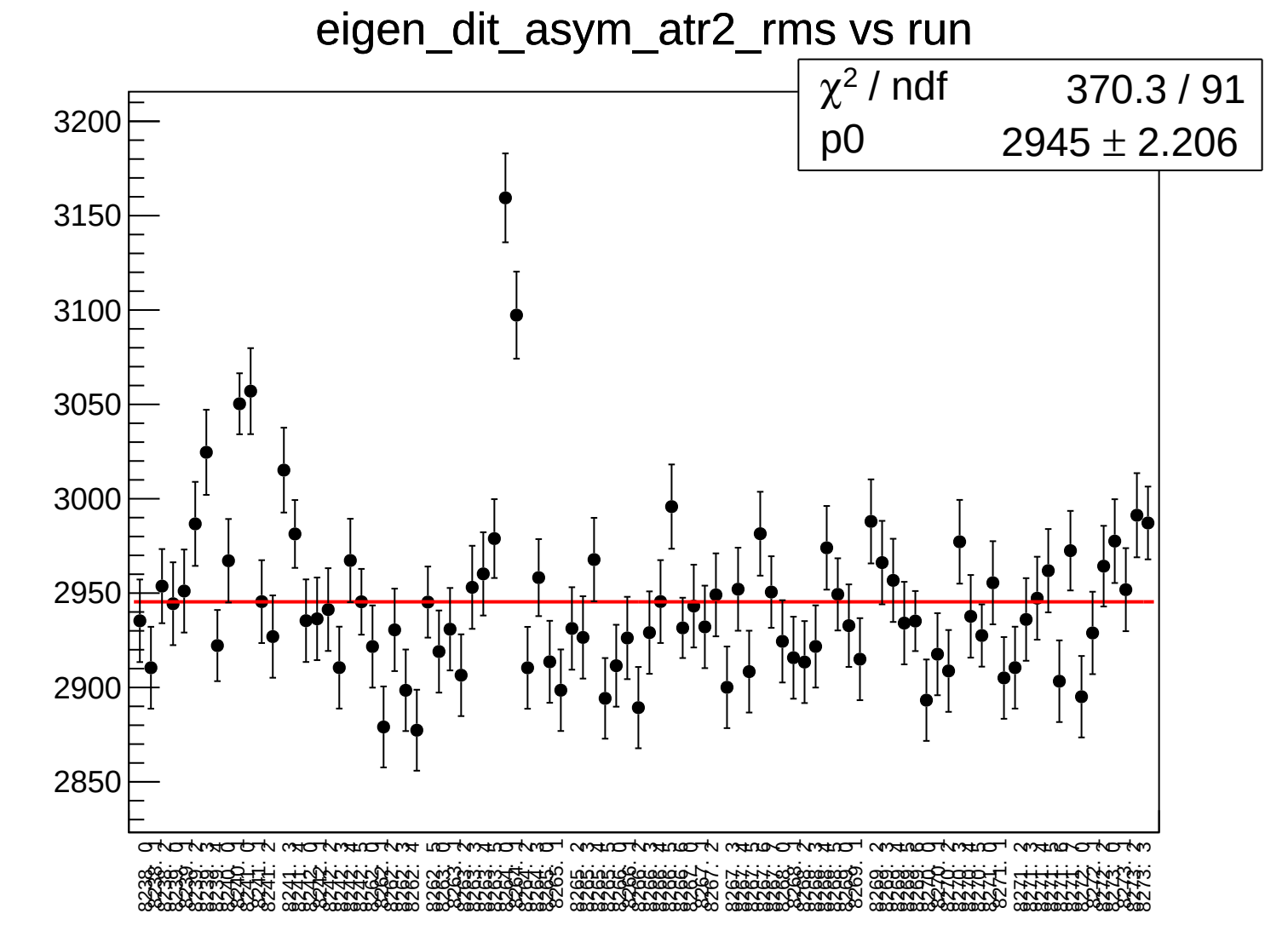

asym_atr2_dit_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 67.69 / 91
p0 3.542e+04 ± 1.593e+04
pull
Entries 92
Mean −535.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

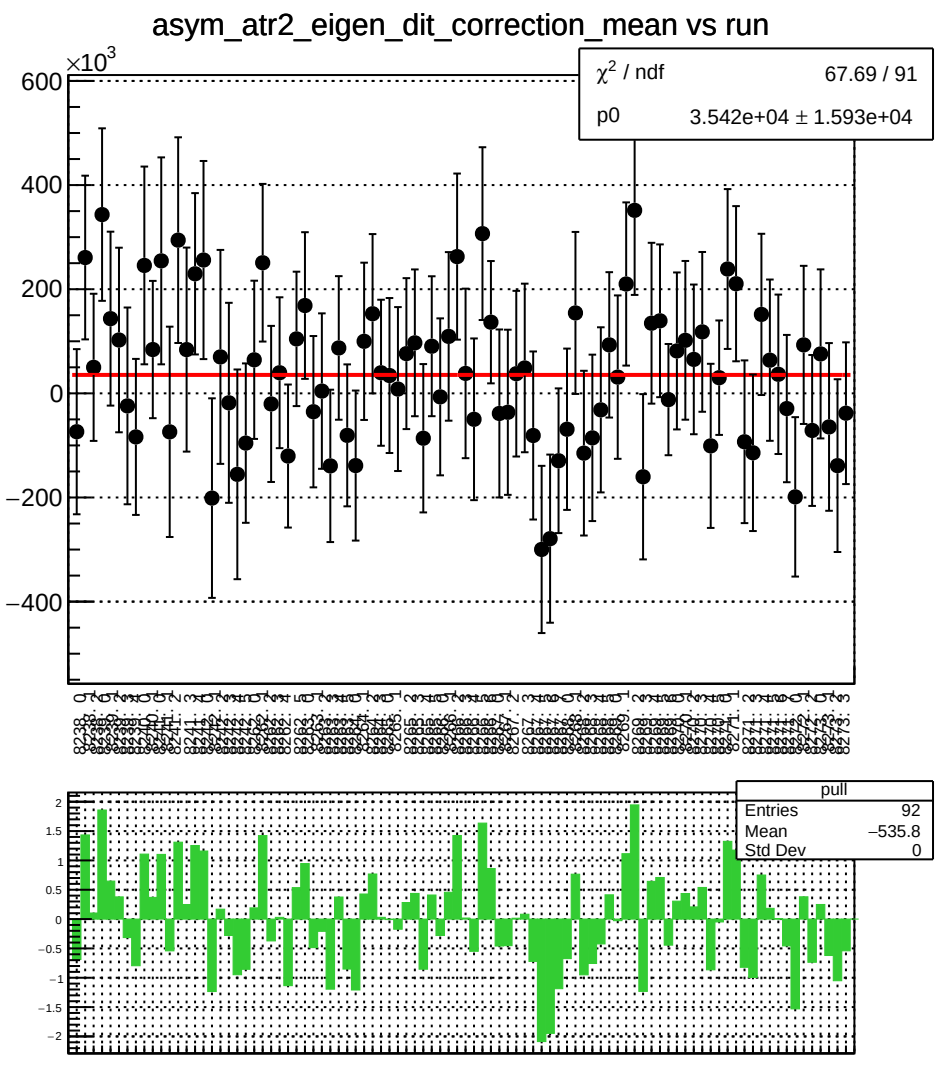

pull1D
Entries 92
Mean 0.006932
Std Dev 0.8577
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

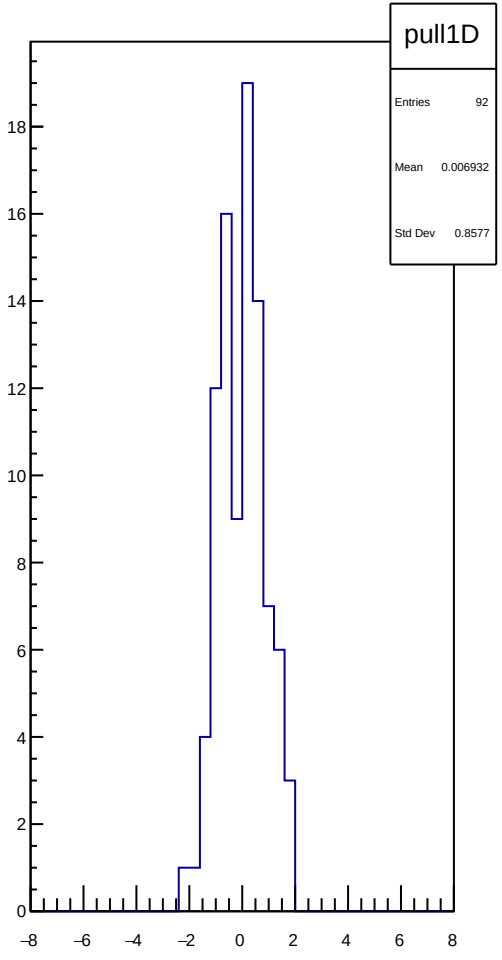

asym_atr2_dit_correction_rms vs run
χ² / ndf 1.521e+04 / 91
p0 1.498e+04 ± 11.26
20000
19000
18000
17000
16000
15000
14000
13000

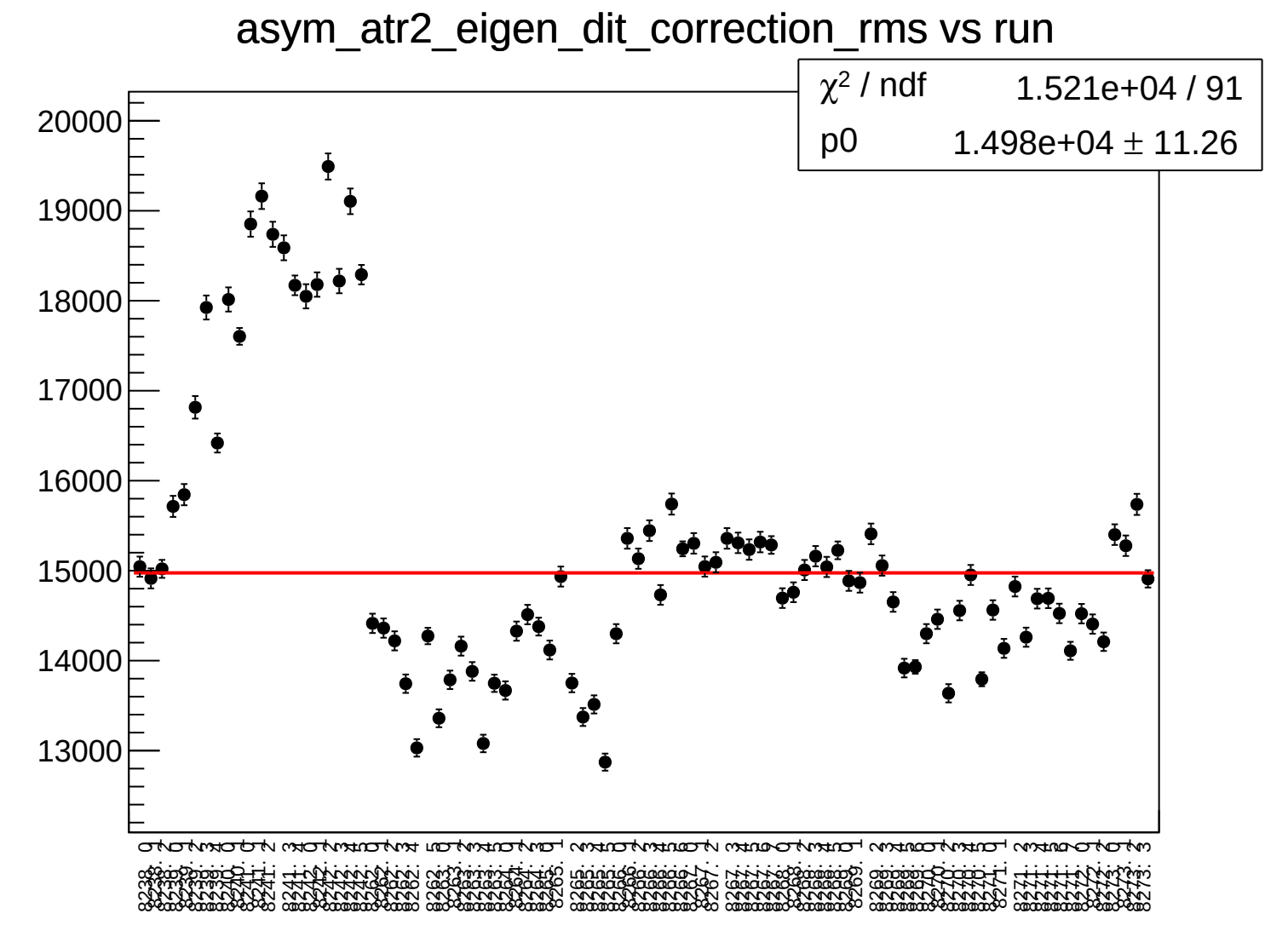

eigen_dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 99.8 / 91
p0 968.8 ± 3120
100
50
0
−50
−100
pull
Entries 92
Mean 2.189
Std Dev 30.84
2
1
0
−1
−2
−3

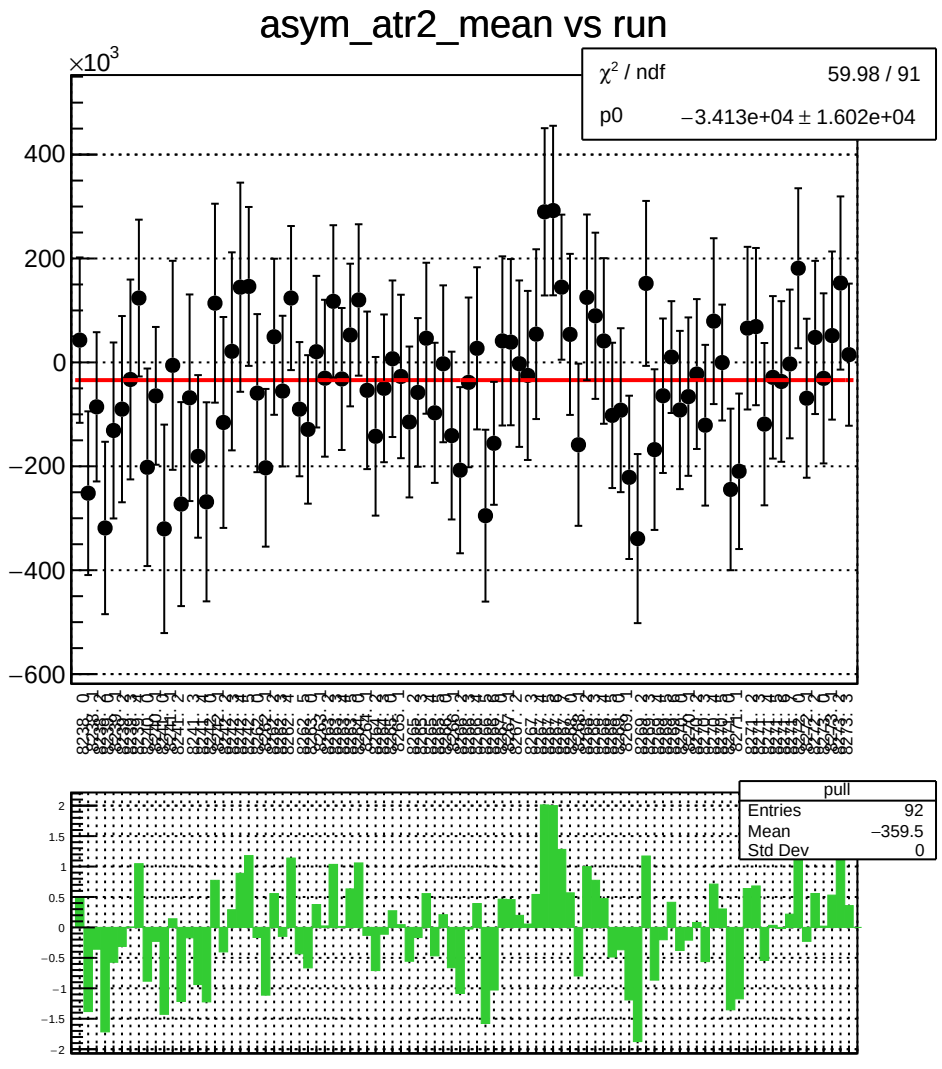

pull1D
Entries 92
Mean −0.01394
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

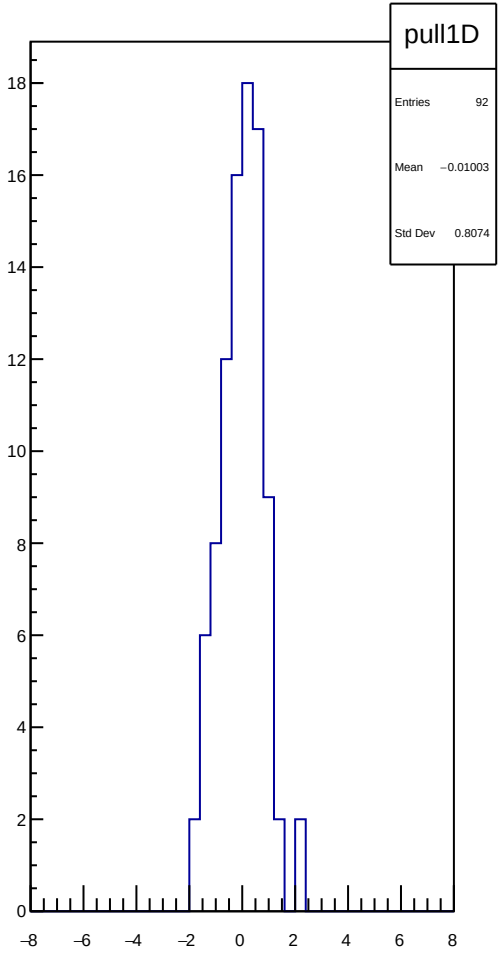

eigen_dit_asym_atr2_rms vs run
$\chi^2$ / ndf 370.3 / 91
p0 2945 ± 2.206
3200
3150
3100
3050
3000
2950
2900
2850

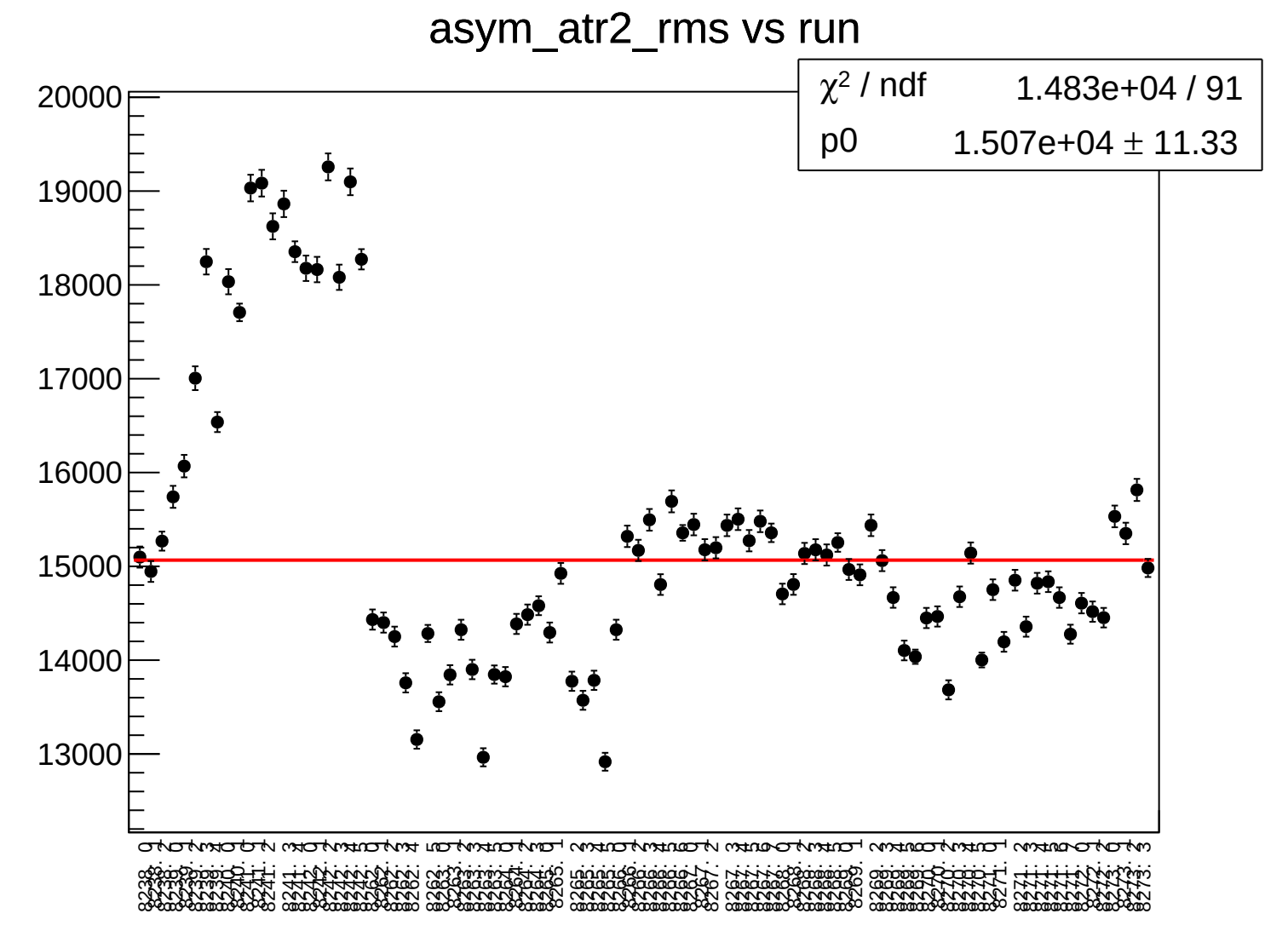

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 67.69 / 91
p0 3.542e+04 ± 1.593e+04
pull
Entries 92
Mean −535.8
Std Dev 0

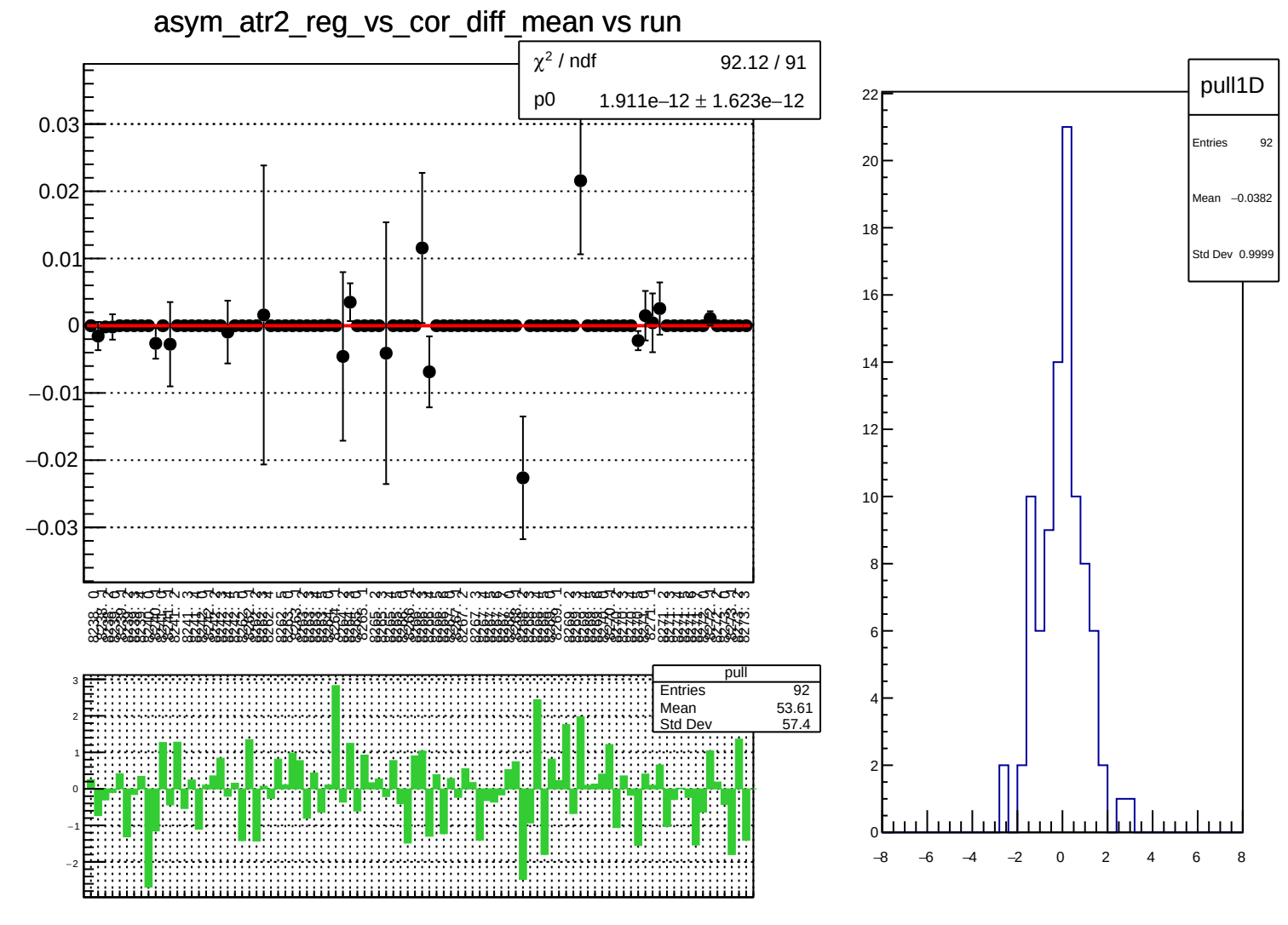

pull1D
Entries 92
Mean 0.006932
Std Dev 0.8577

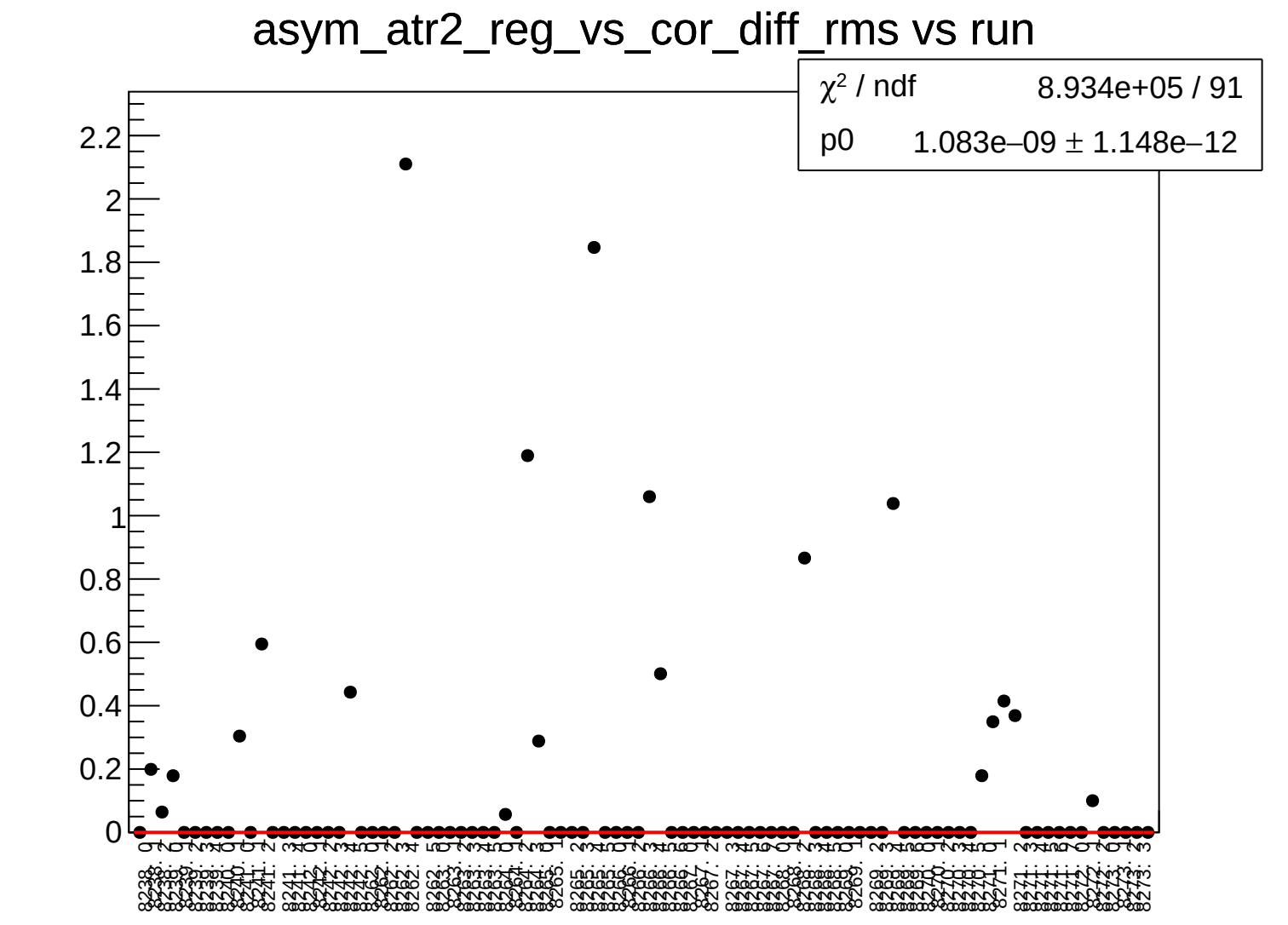

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 1.521e+04 / 91
p0 1.498e+04 ± 11.26
20000
19000
18000
17000
16000
15000
14000
13000

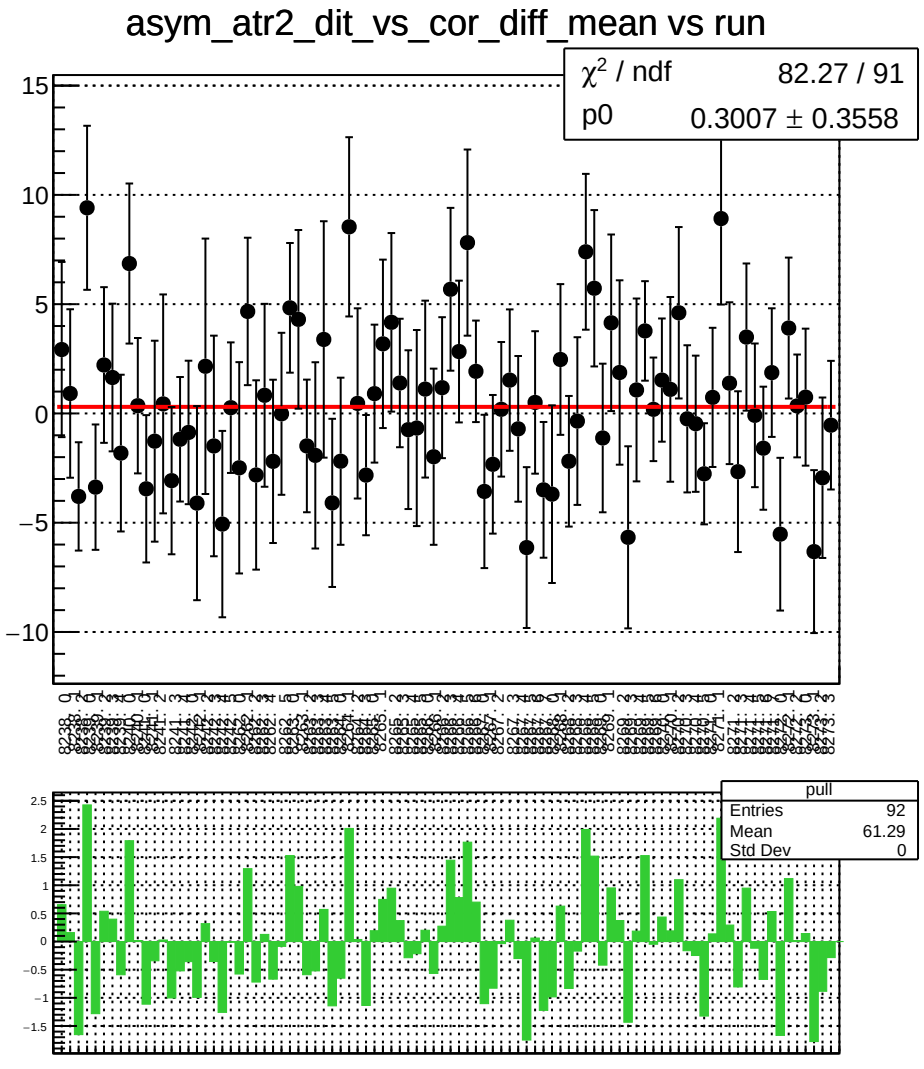

asym_atr2_mean vs run
×10^3
χ² / ndf 59.98 / 91
p0 −3.413e+04 ± 1.602e+04
pull
Entries 92
Mean −359.5
Std Dev 0

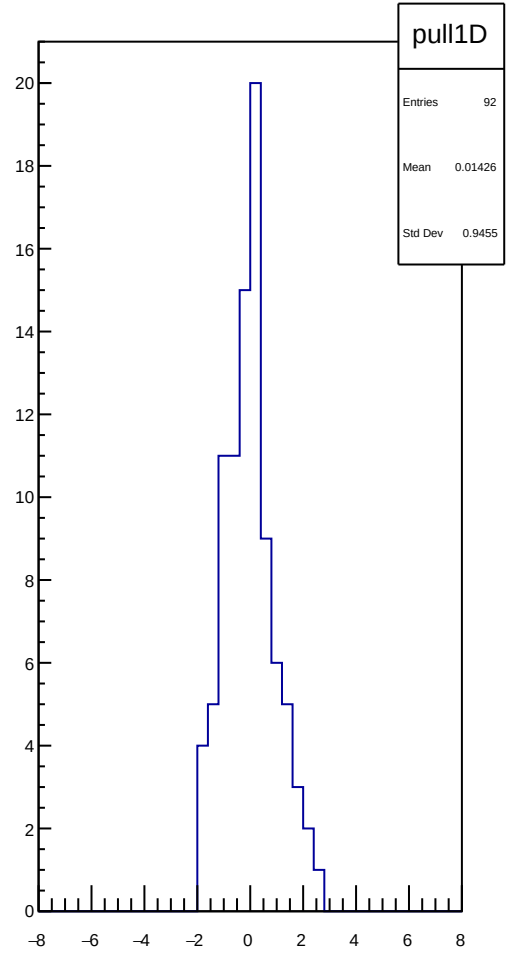

pull1D
Entries 92
Mean −0.01003
Std Dev 0.8074

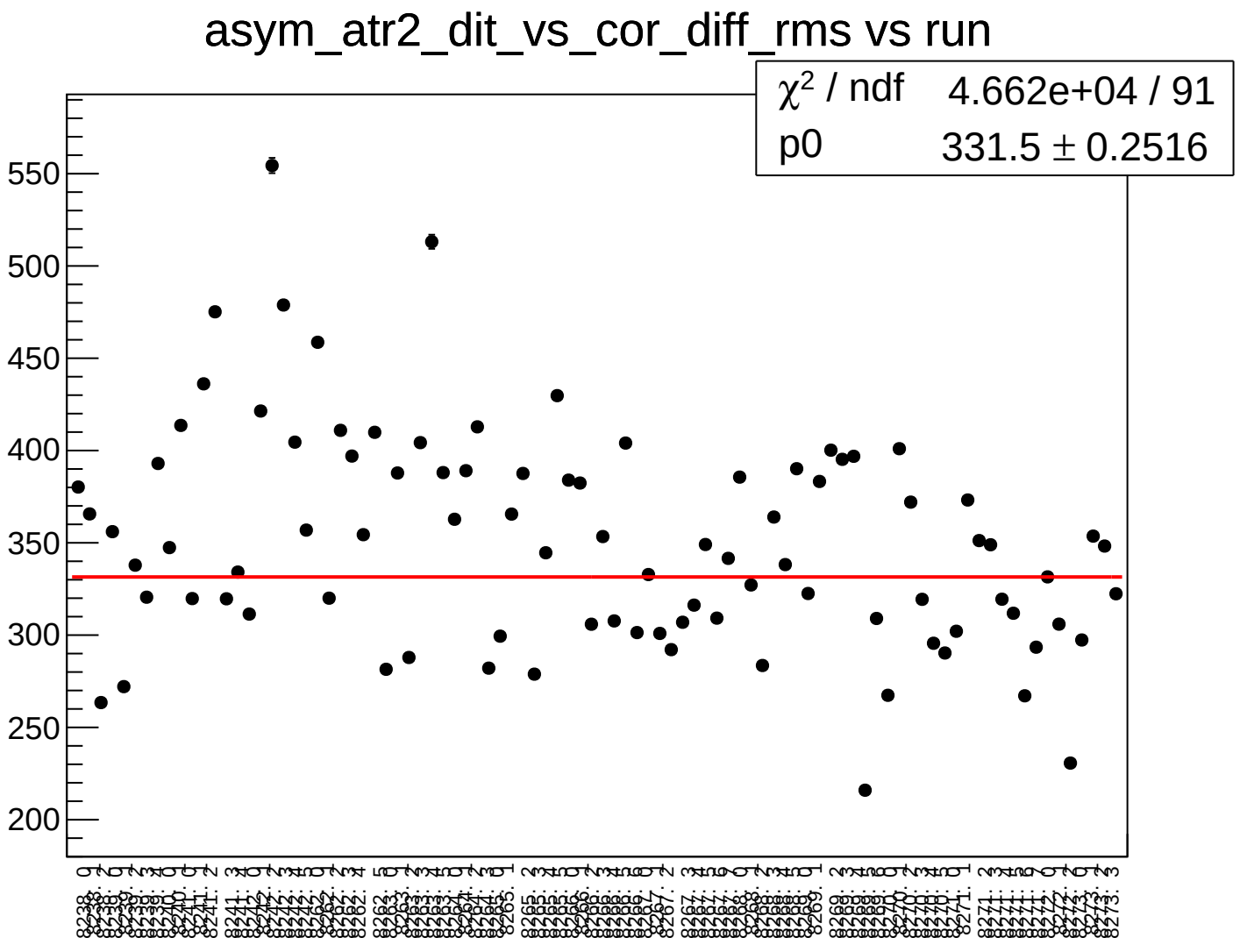

asym_atr2_rms vs run
χ² / ndf 1.483e+04 / 91
p0 1.507e+04 ± 11.33
20000
19000
18000
17000
16000
15000
14000
13000

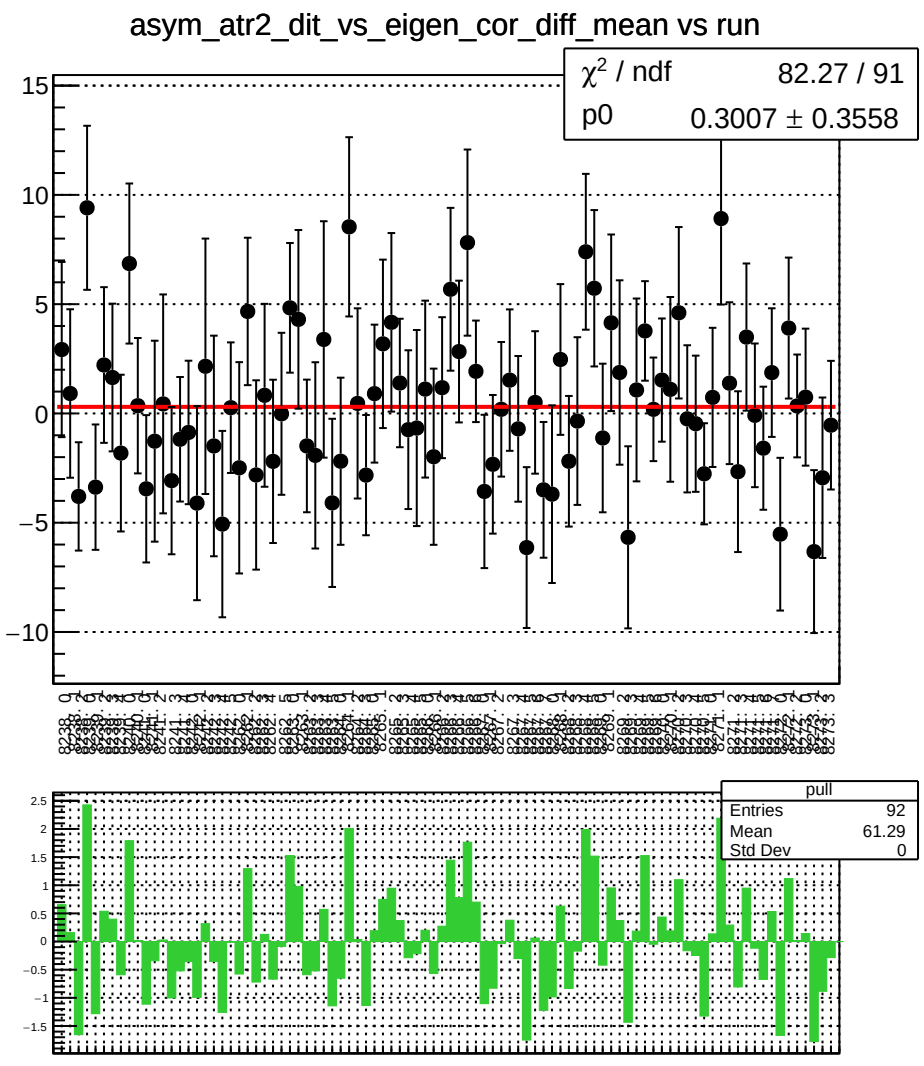

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 92.12 / 91
p0 1.911e−12 ± 1.623e−12
pull
Entries 92
Mean 53.61
Std Dev 57.4
pull1D
Entries 92
Mean −0.0382
Std Dev 0.9999

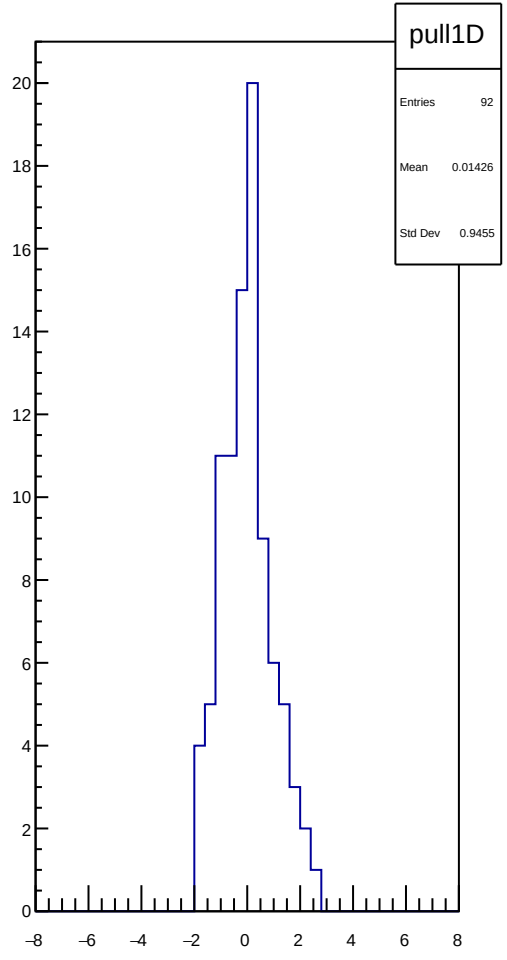

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 8.934e+05 / 91
p0 1.083e−09 ± 1.148e−12
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

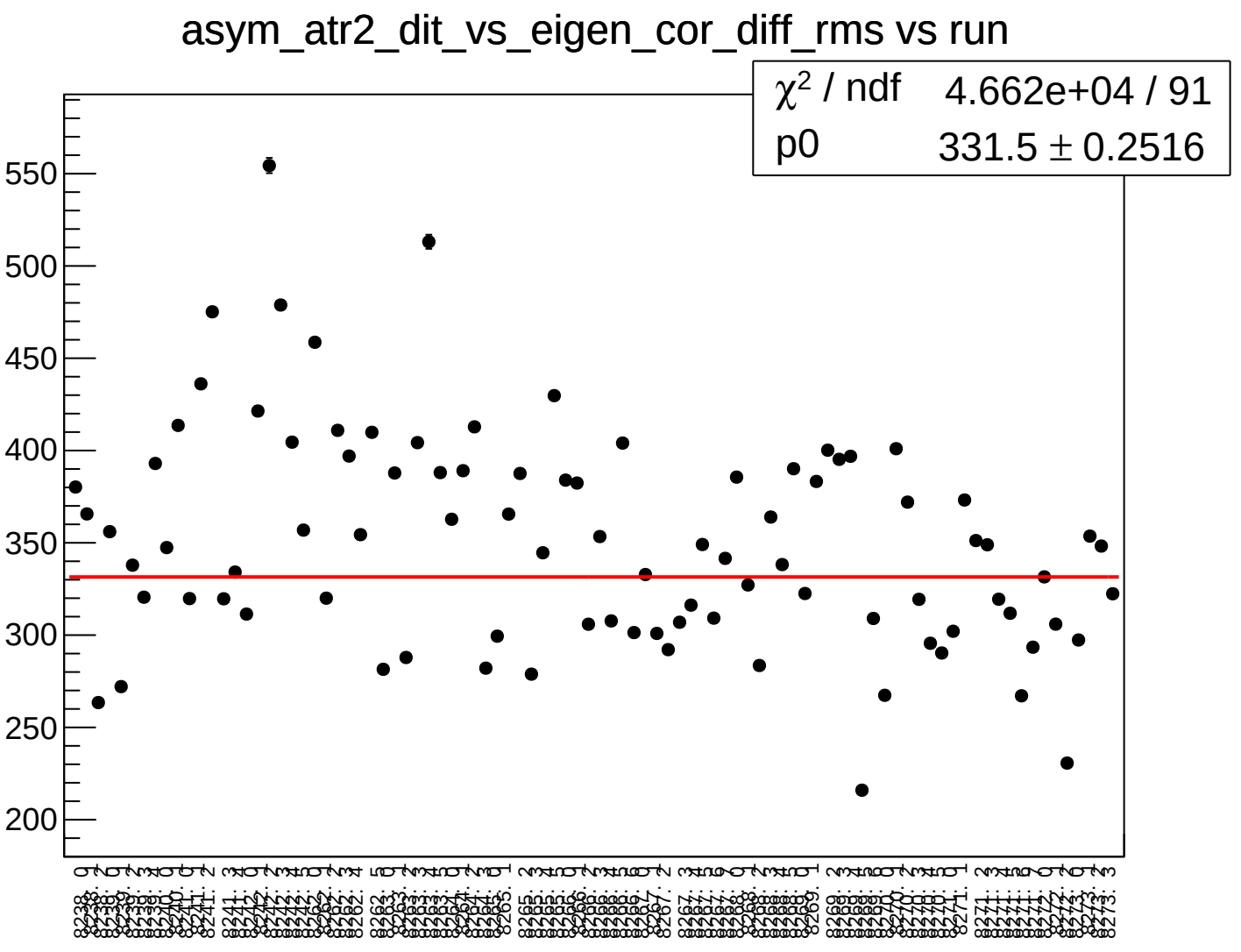

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 82.27 / 91
p0 0.3007 ± 0.3558
pull
Entries 92
Mean 61.29
Std Dev 0

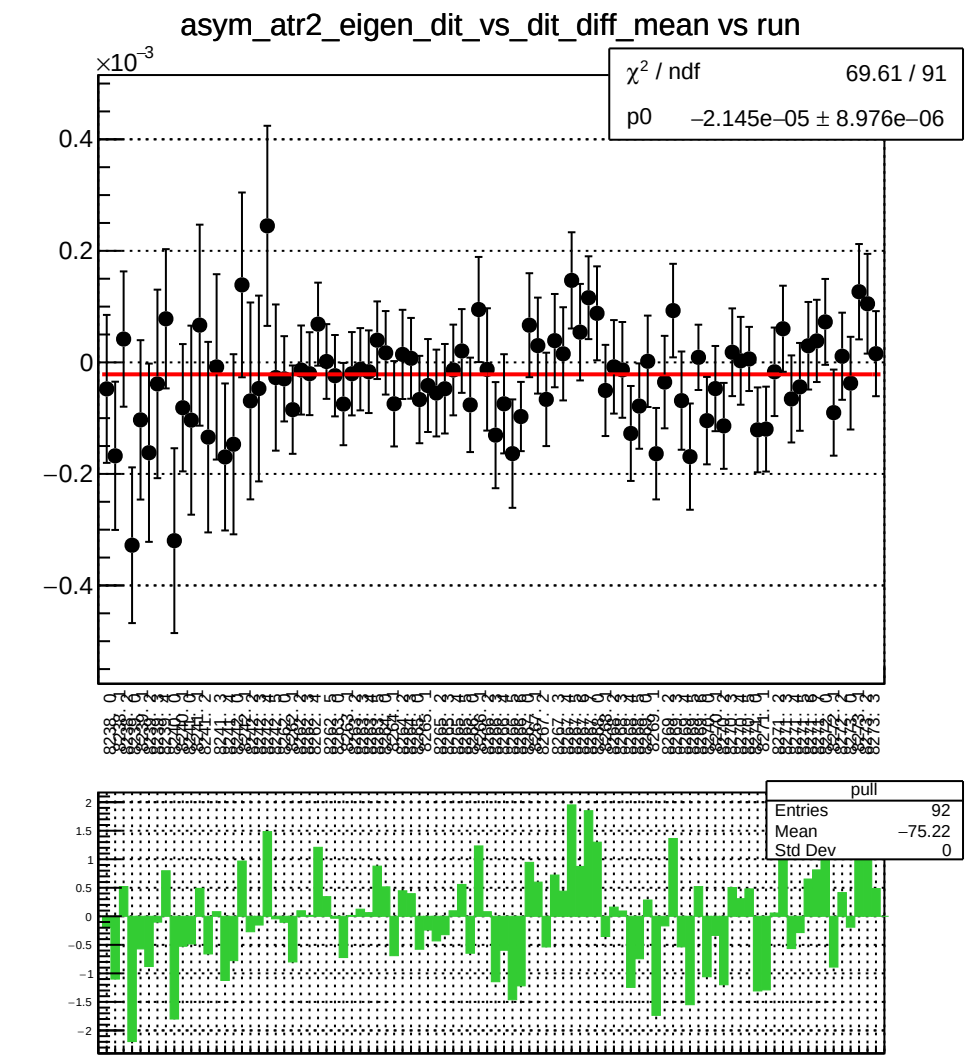

pull1D
Entries 92
Mean 0.01426
Std Dev 0.9455

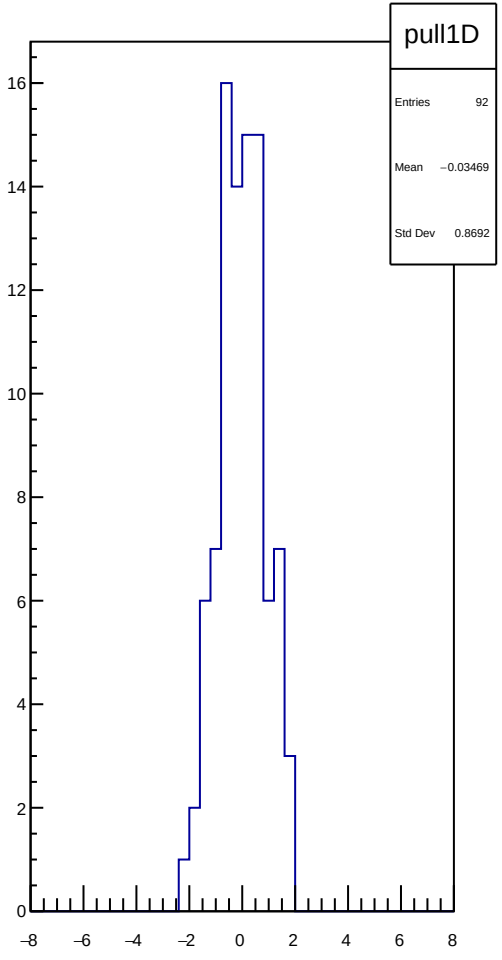

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 4.662e+04 / 91
p0 331.5 ± 0.2516
550
500
450
400
350
300
250
200

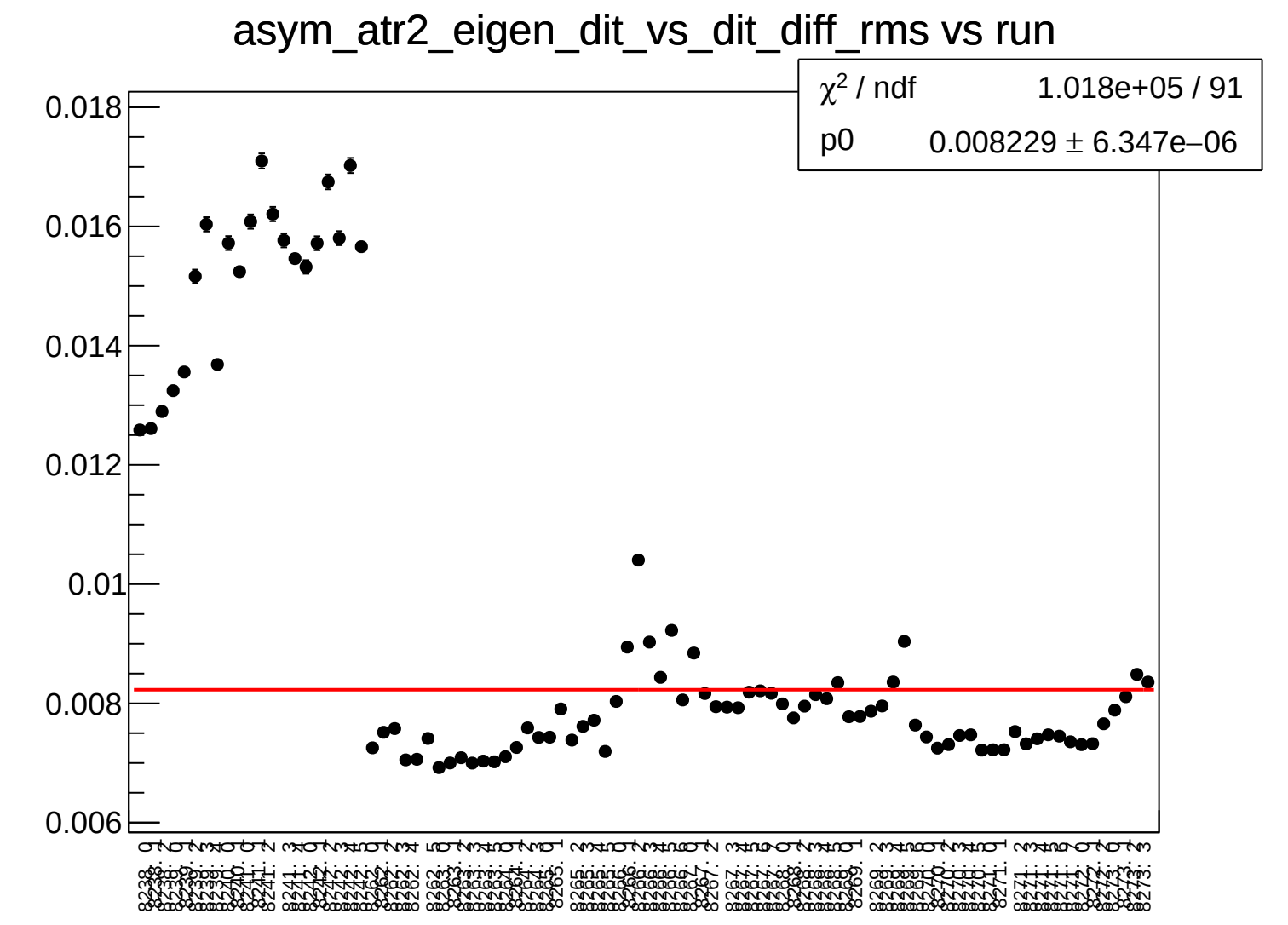

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.27 / 91
p0 0.3007 ± 0.3558
pull
Entries 92
Mean 61.29
Std Dev 0

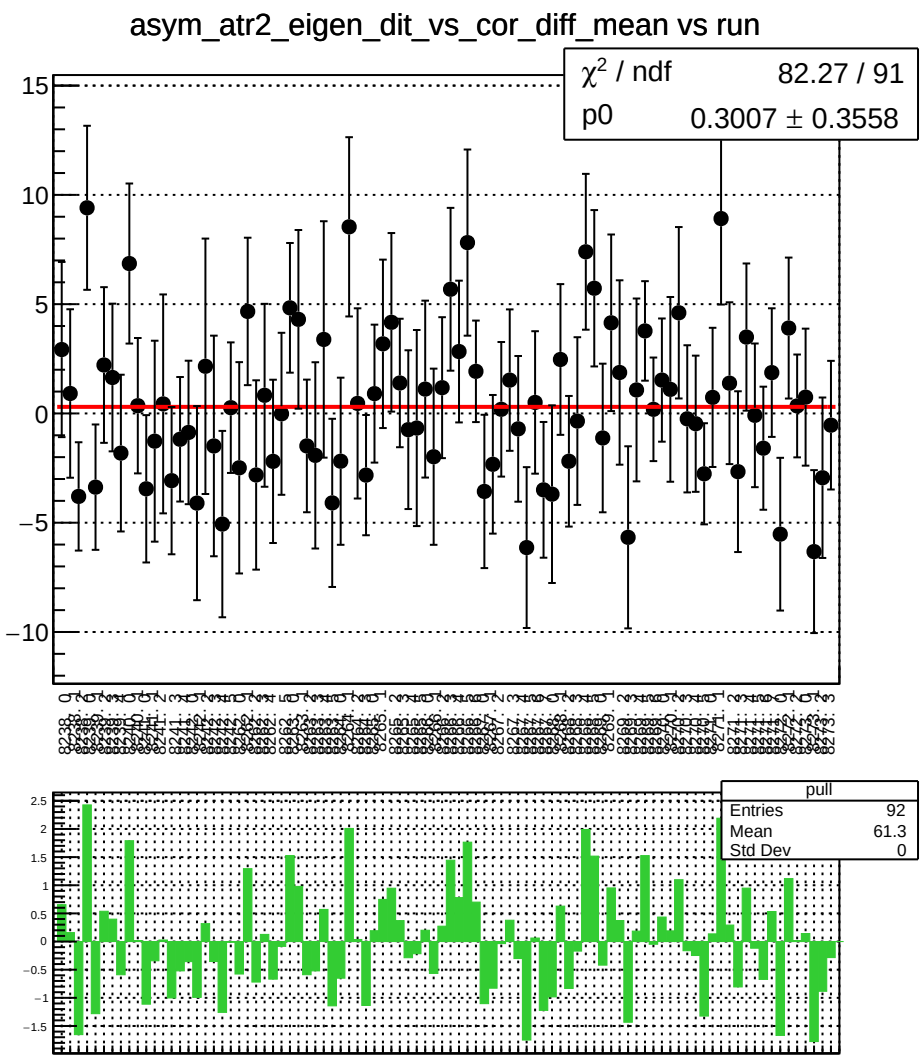

pull1D
Entries 92
Mean 0.01426
Std Dev 0.9455

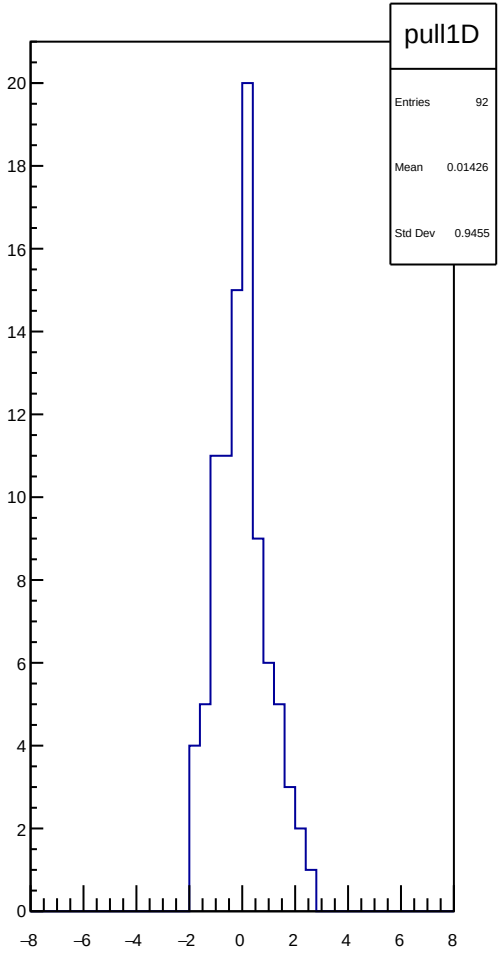

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.662e+04 / 91
p0 331.5 ± 0.2516
550
500
450
400
350
300
250
200

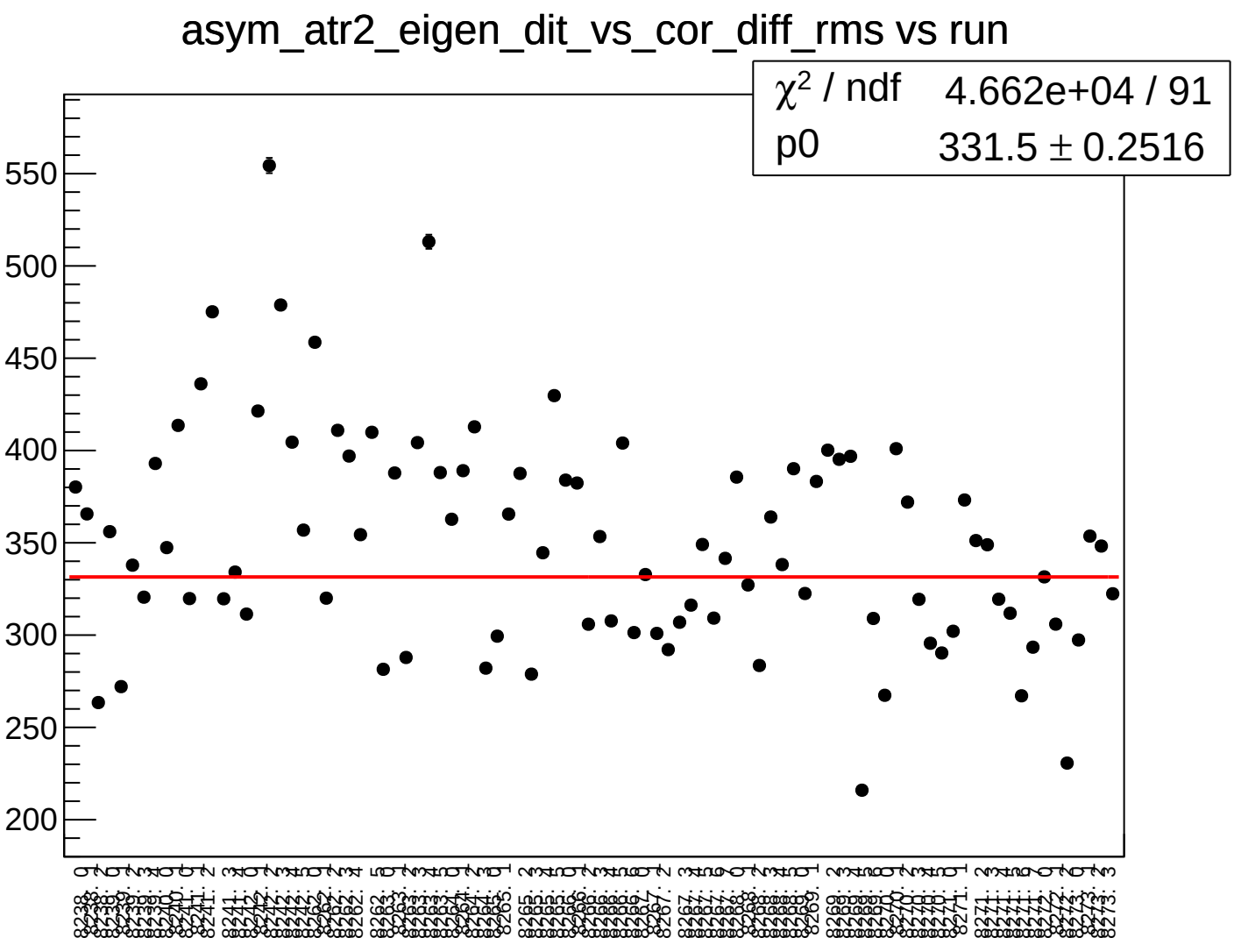

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.61 / 91
p0 −2.145e−05 ± 8.976e−06
pull
Entries 92
Mean −75.22
Std Dev 0

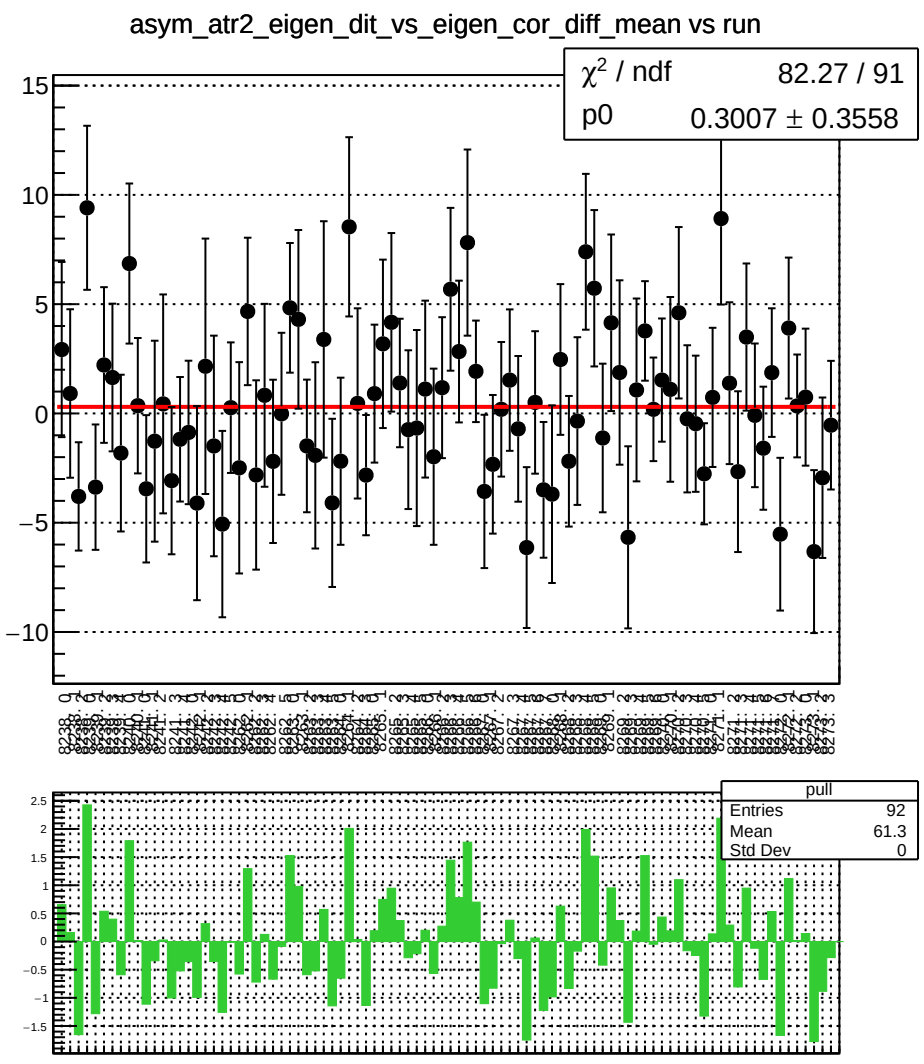

pull1D
Entries 92
Mean −0.03469
Std Dev 0.8692

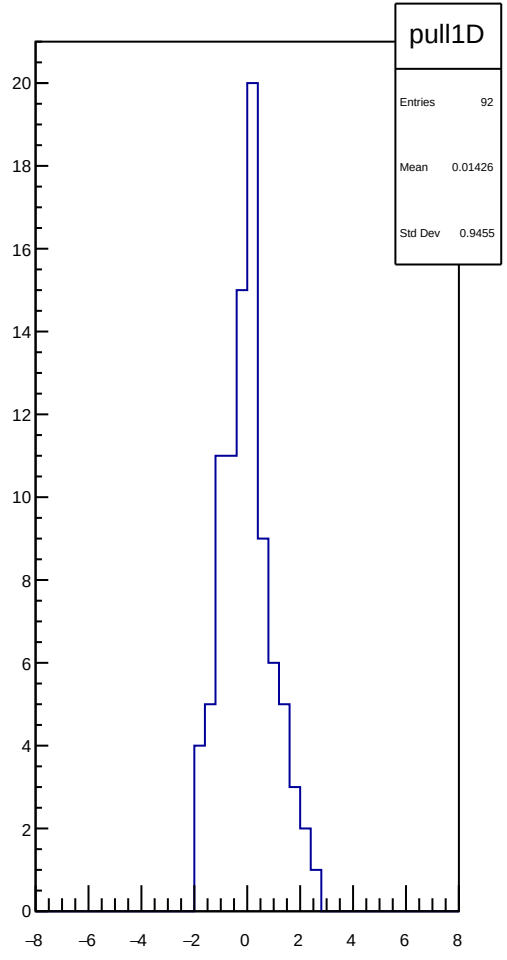

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.018e+05 / 91
p0 0.008229 ± 6.347e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

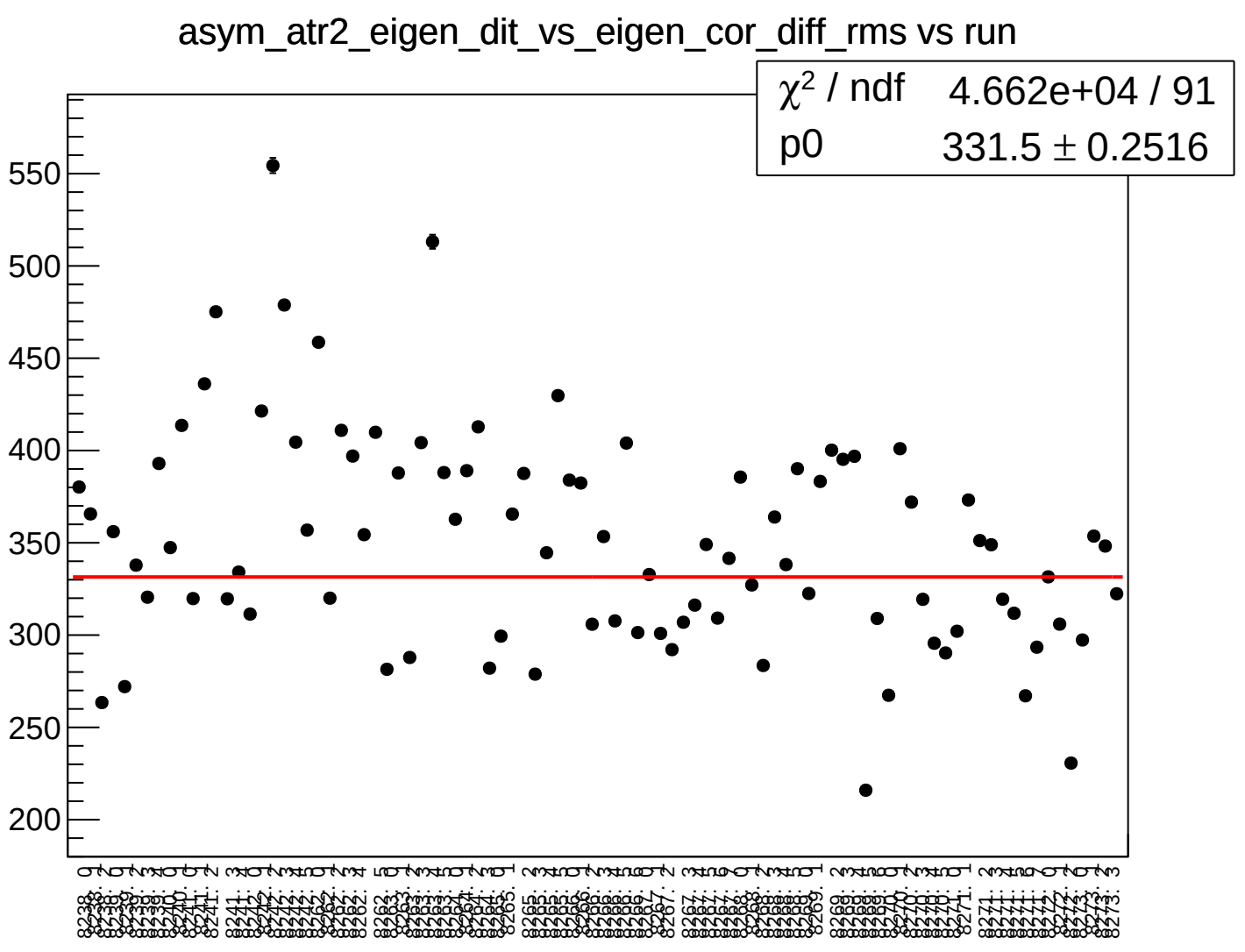

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.27 / 91
p0 0.3007 ± 0.3558
pull
Entries 92
Mean 61.3
Std Dev 0

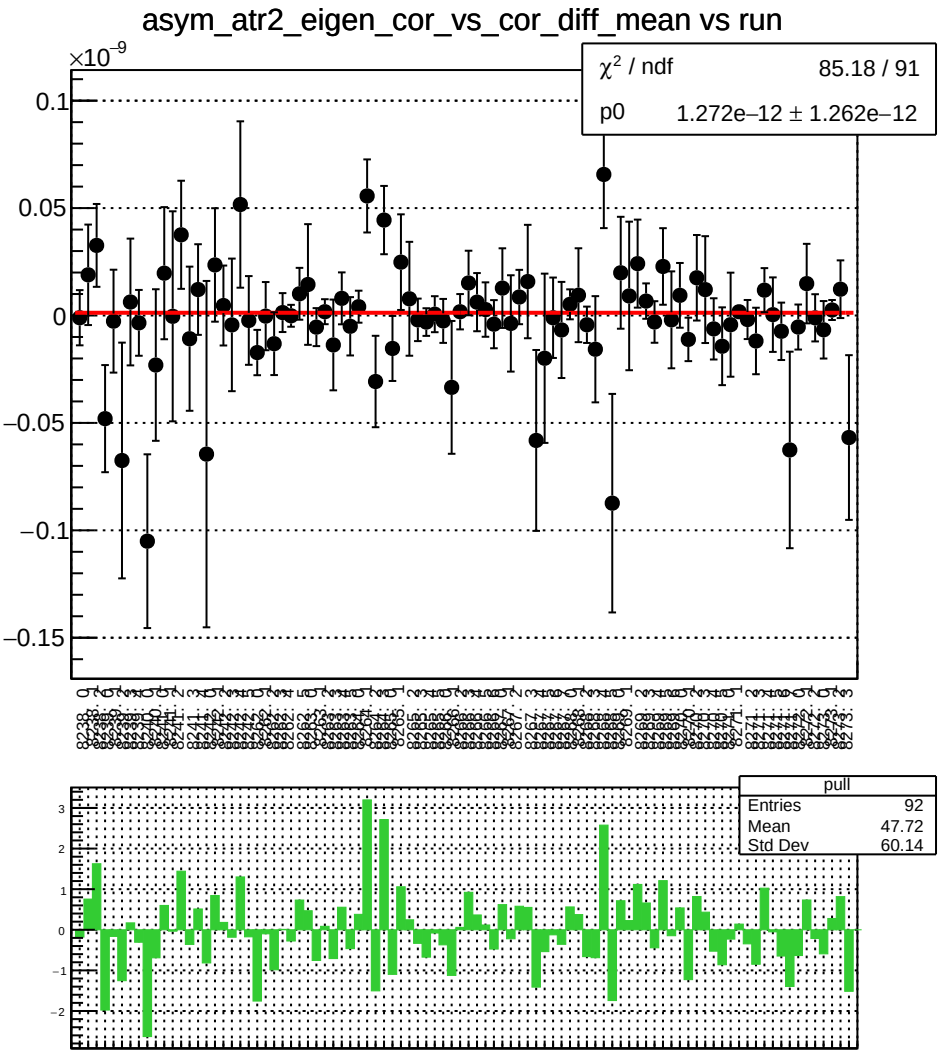

pull1D
Entries 92
Mean 0.01426
Std Dev 0.9455

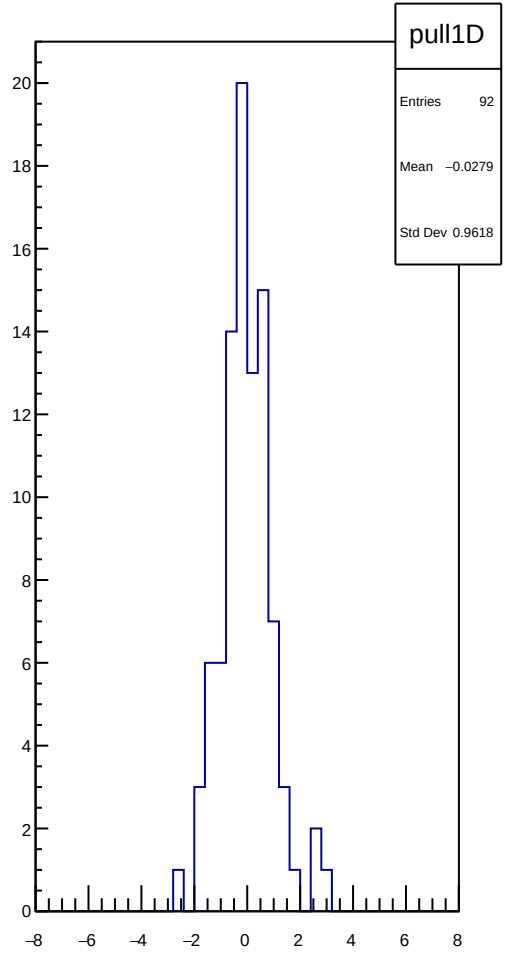

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 4.662e+04 / 91
p0 331.5 ± 0.2516
550
500
450
400
350
300
250
200

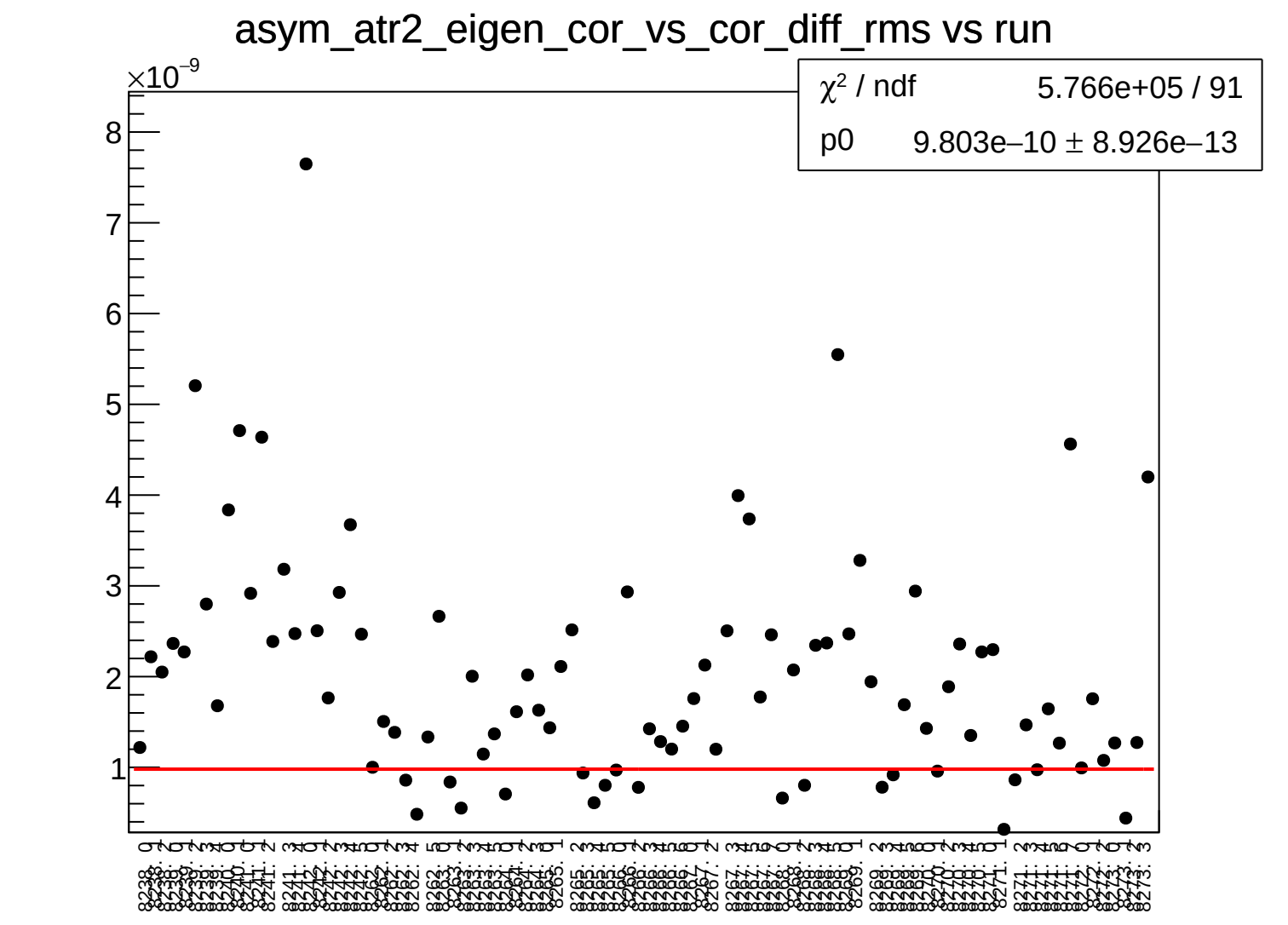

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.27 / 91
p0 0.3007 ± 0.3558
pull
Entries 92
Mean 61.3
Std Dev 0

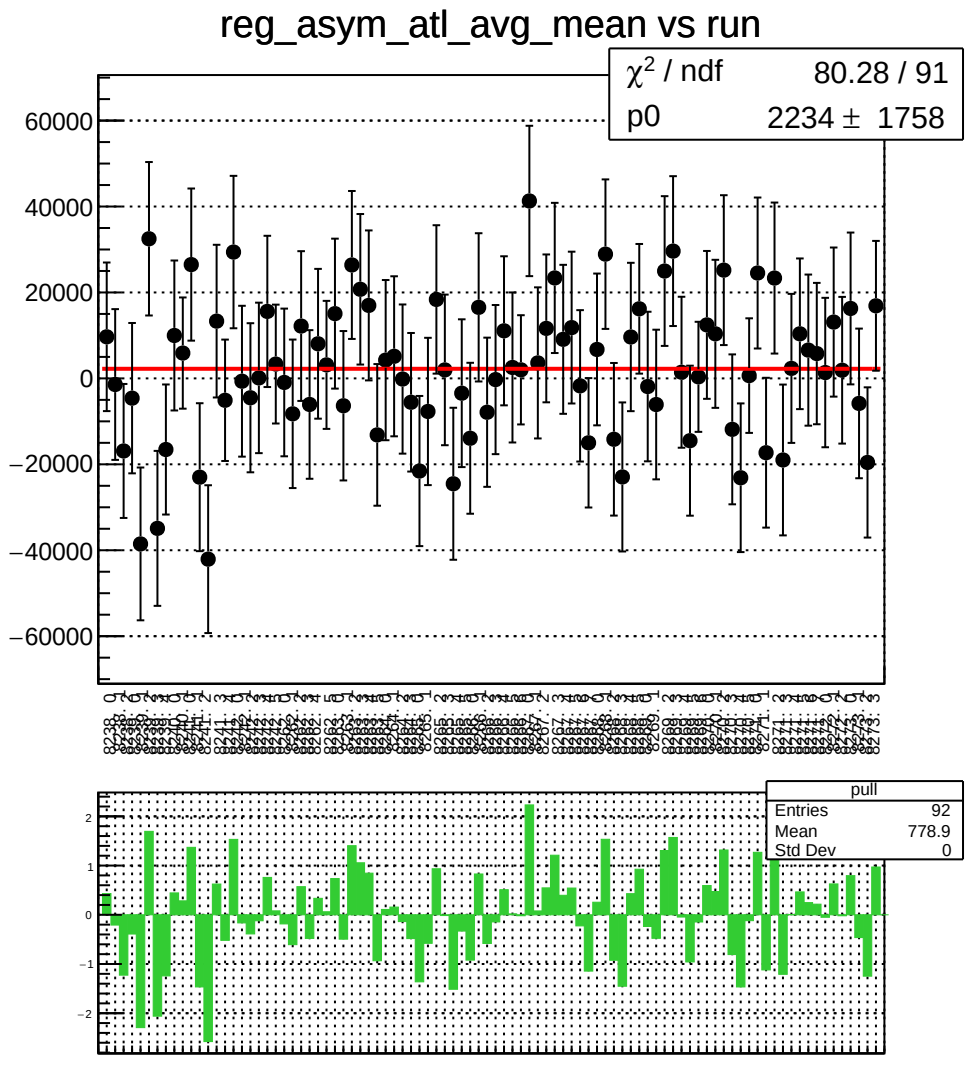

pull1D
Entries 92
Mean 0.01426
Std Dev 0.9455

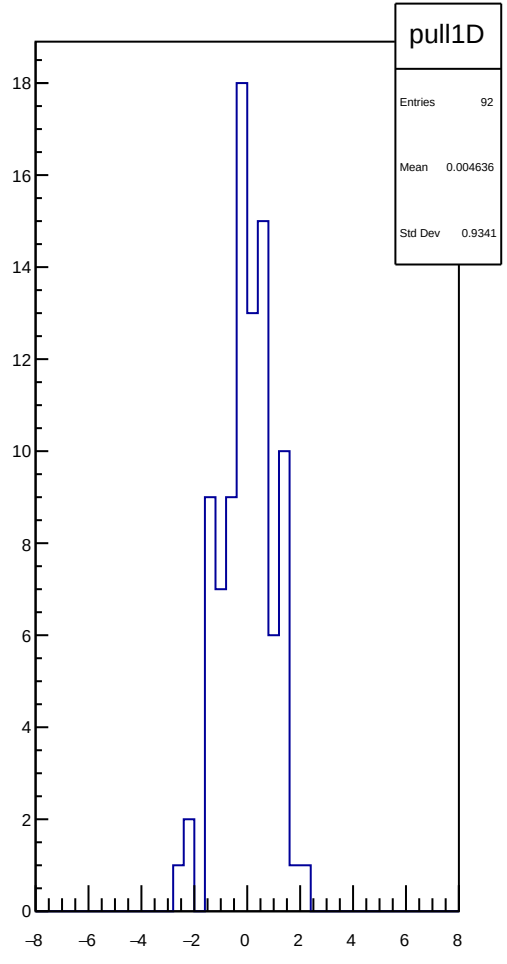

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.662e+04 / 91
p0 331.5 ± 0.2516
550
500
450
400
350
300
250
200

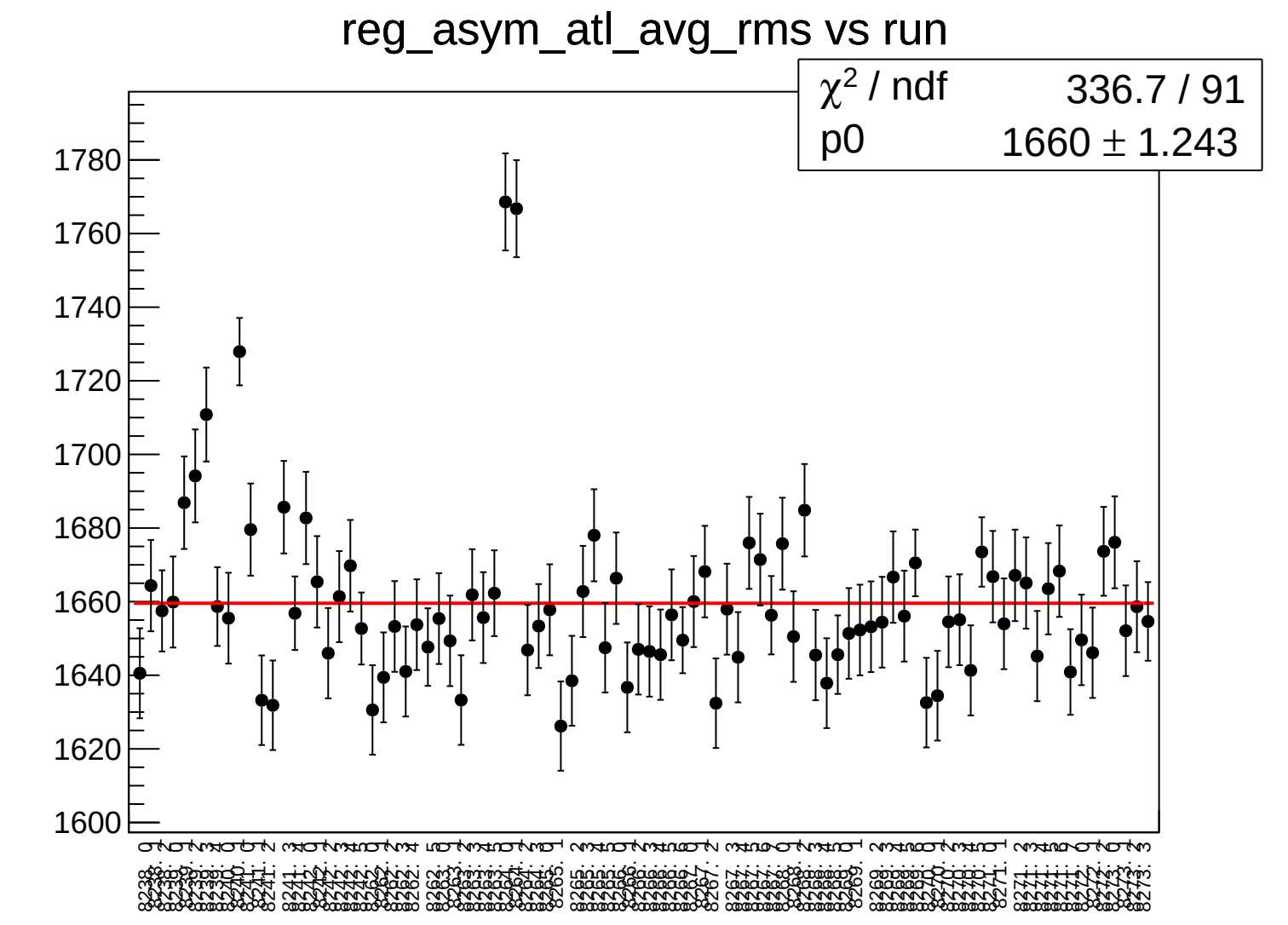

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 85.18 / 91
p0 1.272e−12 ± 1.262e−12
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean 47.72
Std Dev 60.14
3
2
1
0
−1
−2

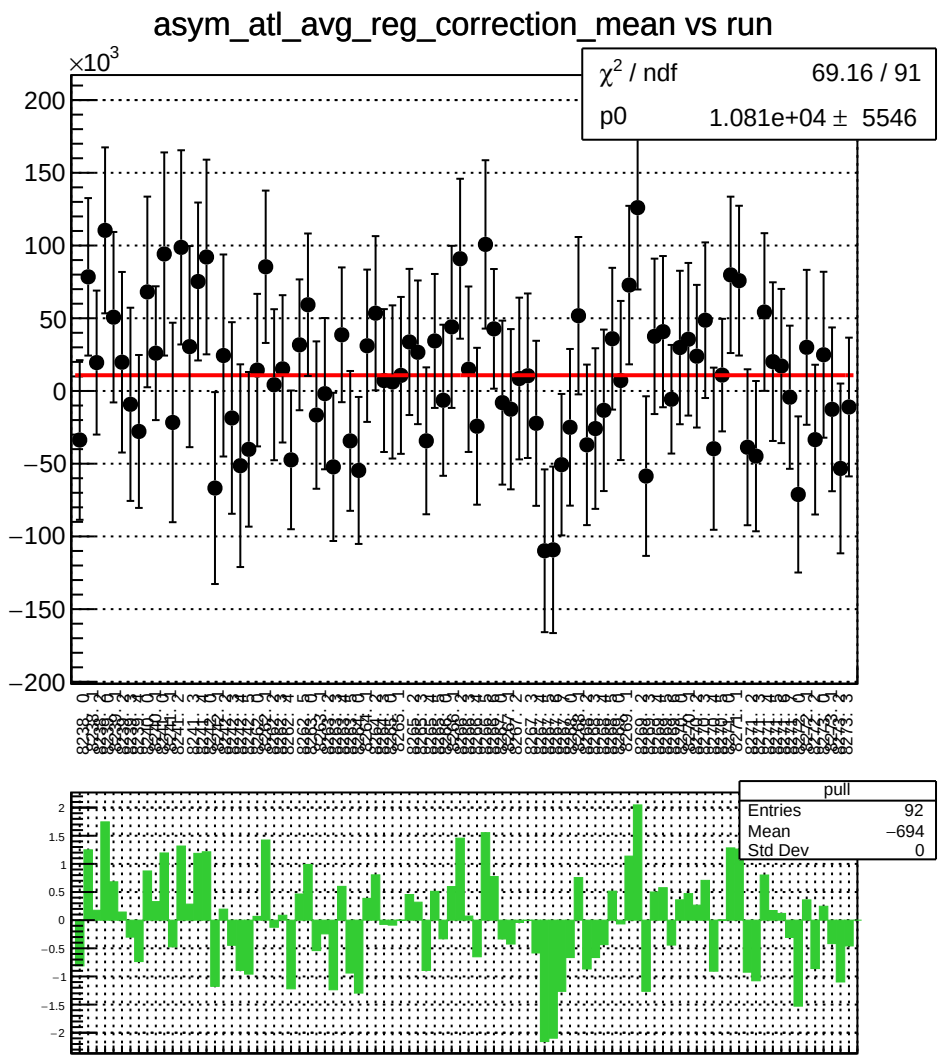

pull1D
Entries 92
Mean −0.0279
Std Dev 0.9618
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

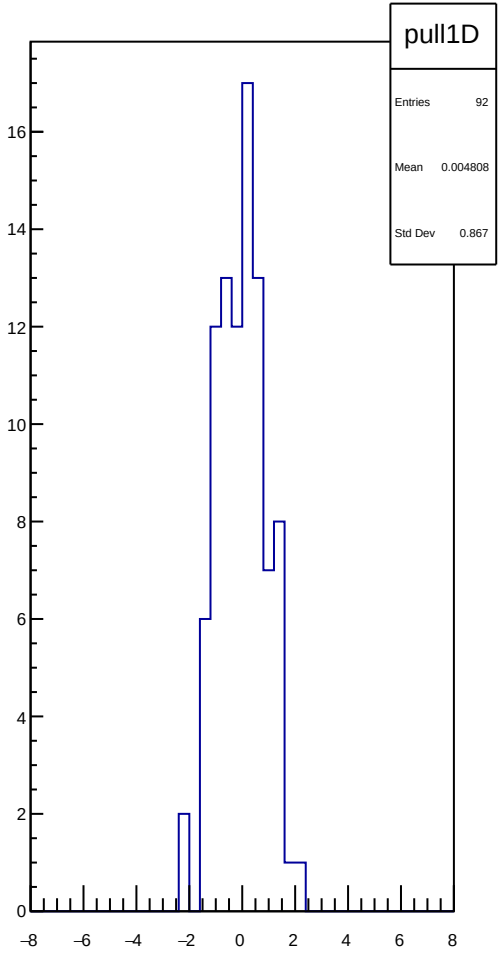

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.766e+05 / 91
p0 9.803e−10 ± 8.926e−13
8
7
6
5
4
3
2
1

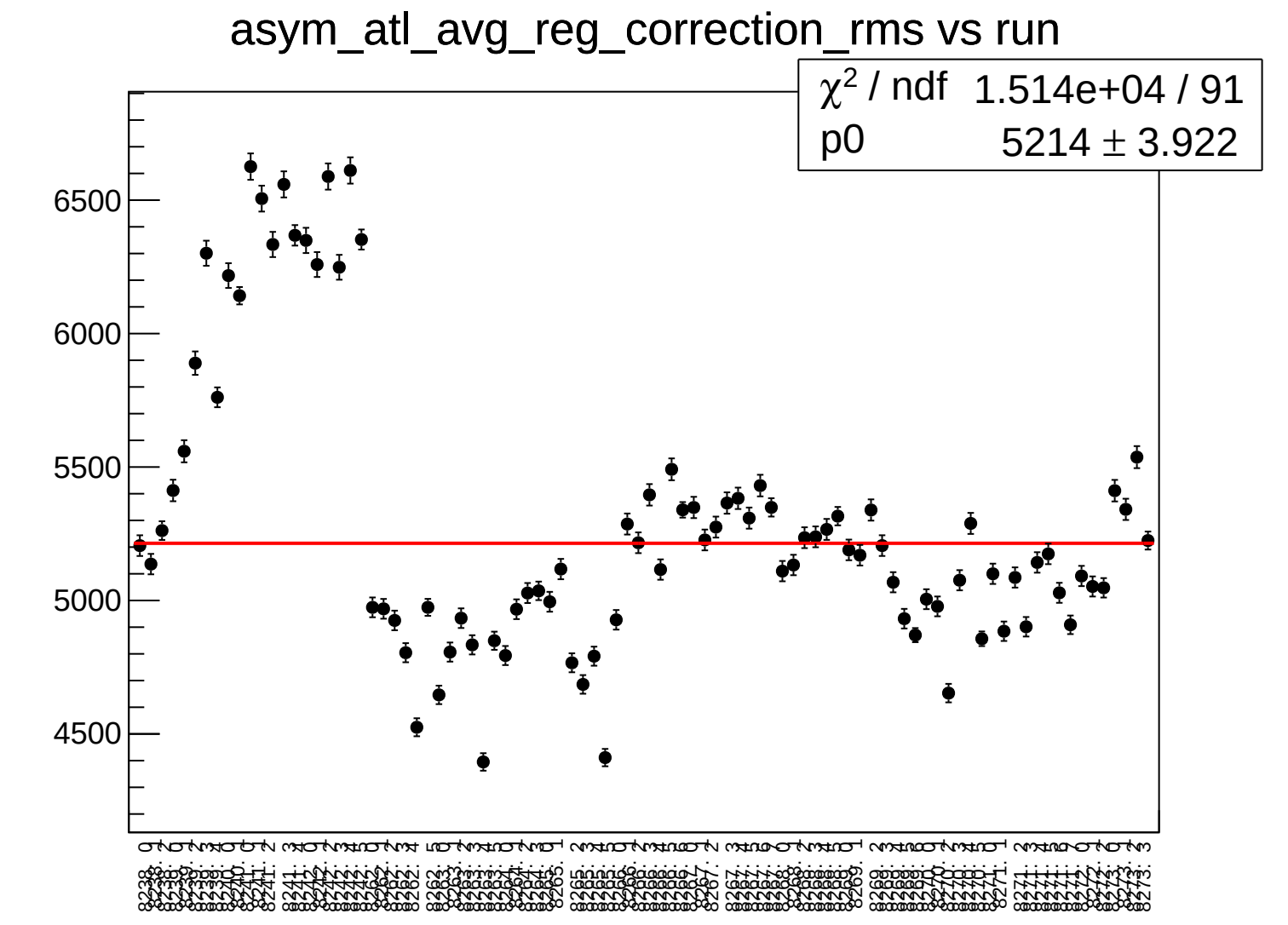

reg_asym_atl_avg_mean vs run
χ² / ndf 80.28 / 91
p0 2234 ± 1758
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 778.9
Std Dev 0
2
1
0
−1
−2

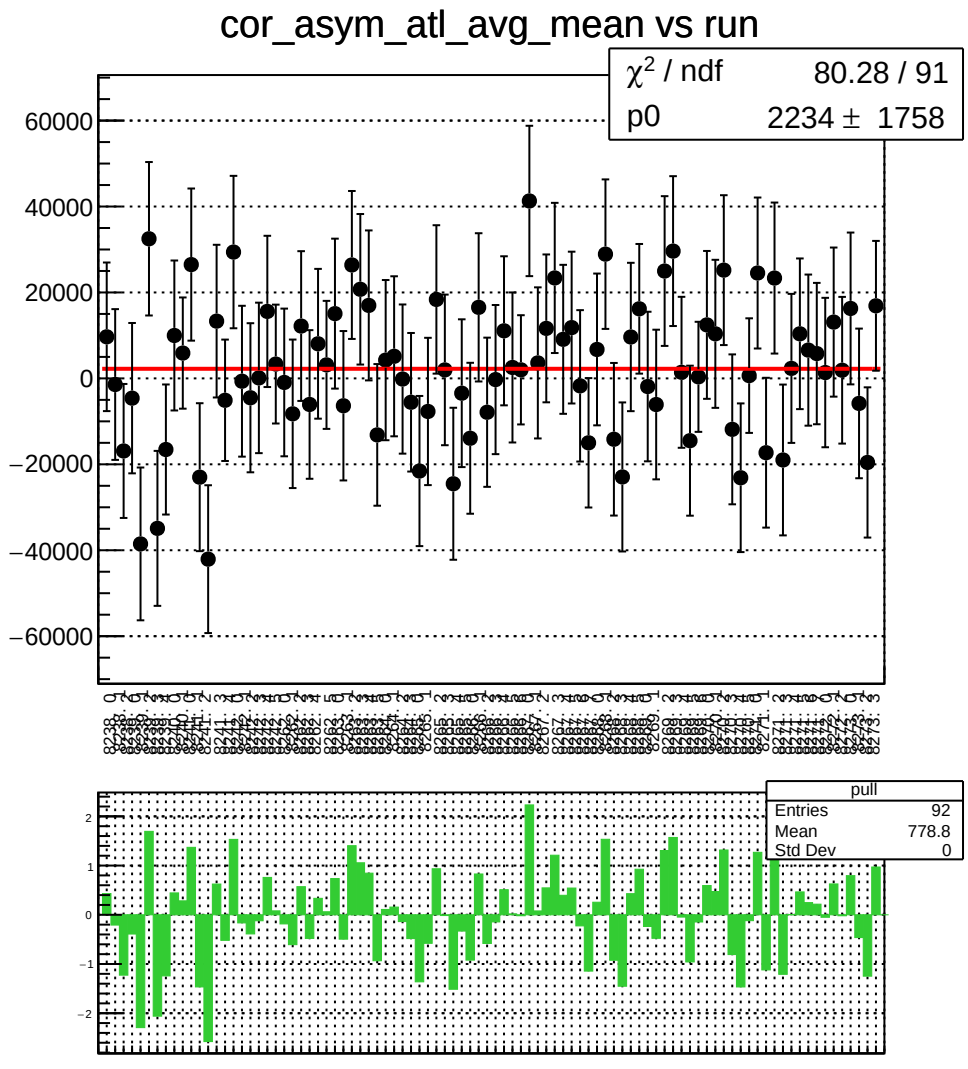

pull1D
Entries 92
Mean 0.004636
Std Dev 0.9341
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

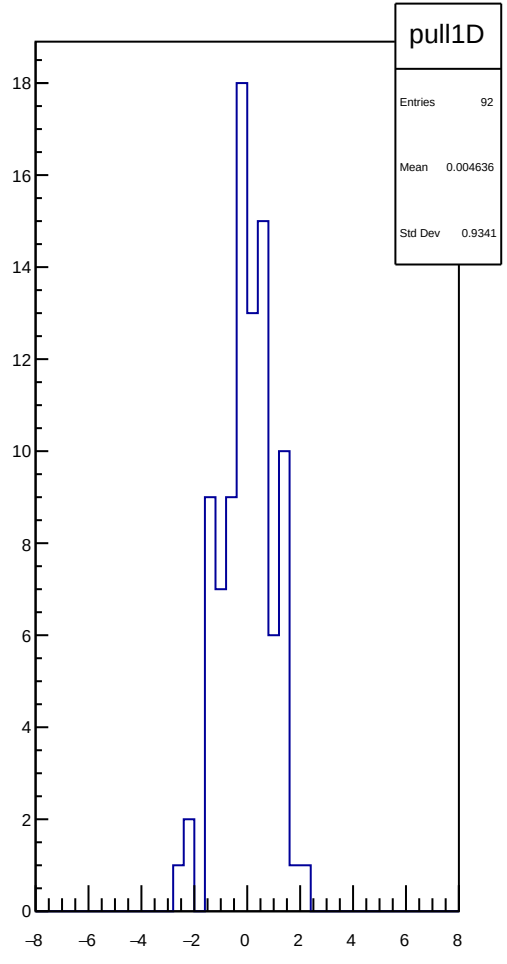

reg_asym_atl_avg_rms vs run
χ² / ndf 336.7 / 91
p0 1660 ± 1.243
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600

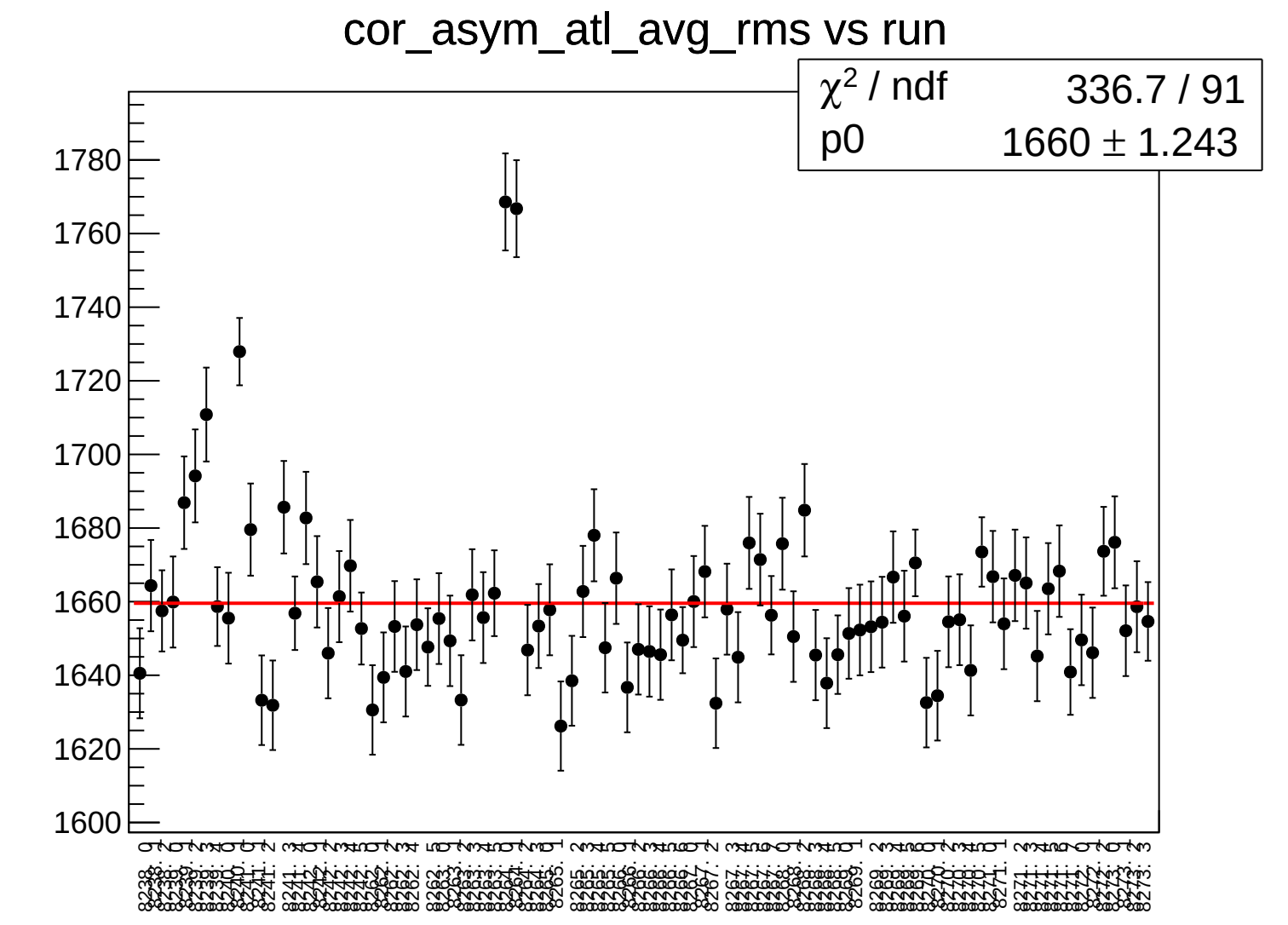

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 69.16 / 91
p0 1.081e+04 ± 5546
pull
Entries 92
Mean −694
Std Dev 0

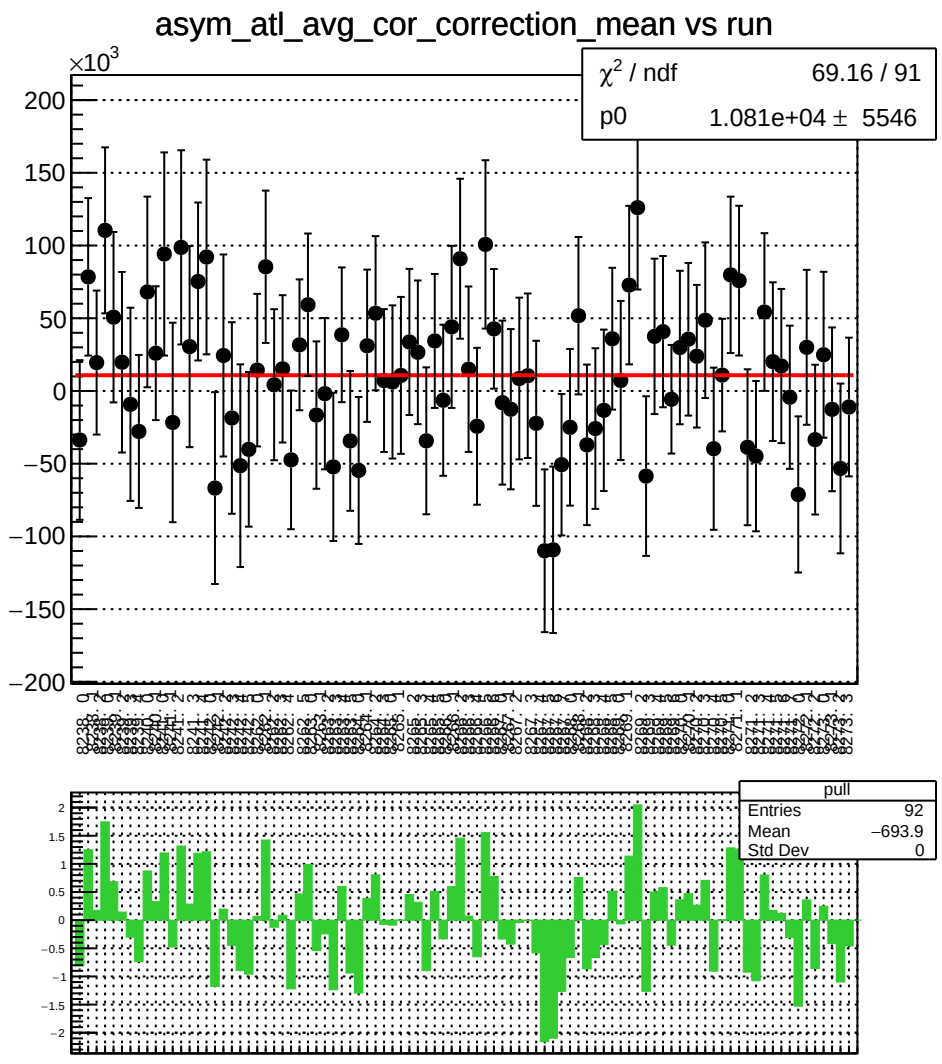

pull1D
Entries 92
Mean 0.004808
Std Dev 0.867

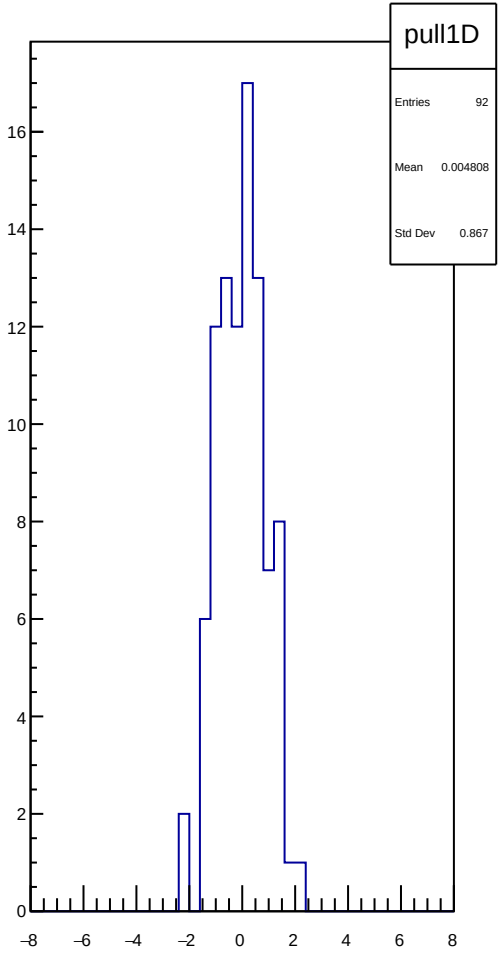

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 1.514e+04 / 91
p0 5214 ± 3.922
6500
6000
5500
5000
4500

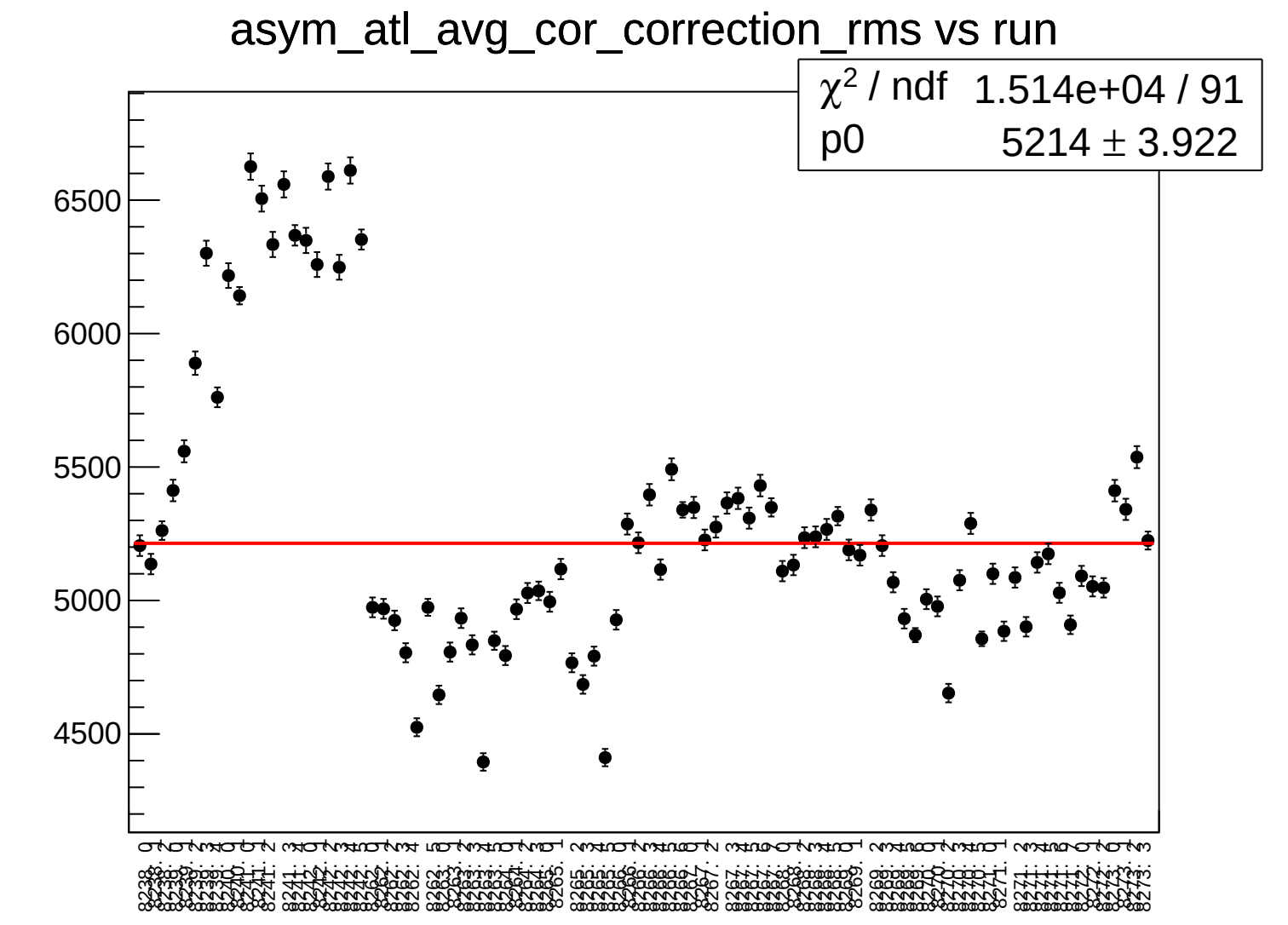

cor_asym_atl_avg_mean vs run
χ² / ndf 80.28 / 91
p0 2234 ± 1758
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 778.8
Std Dev 0
2
1
0
−1
−2

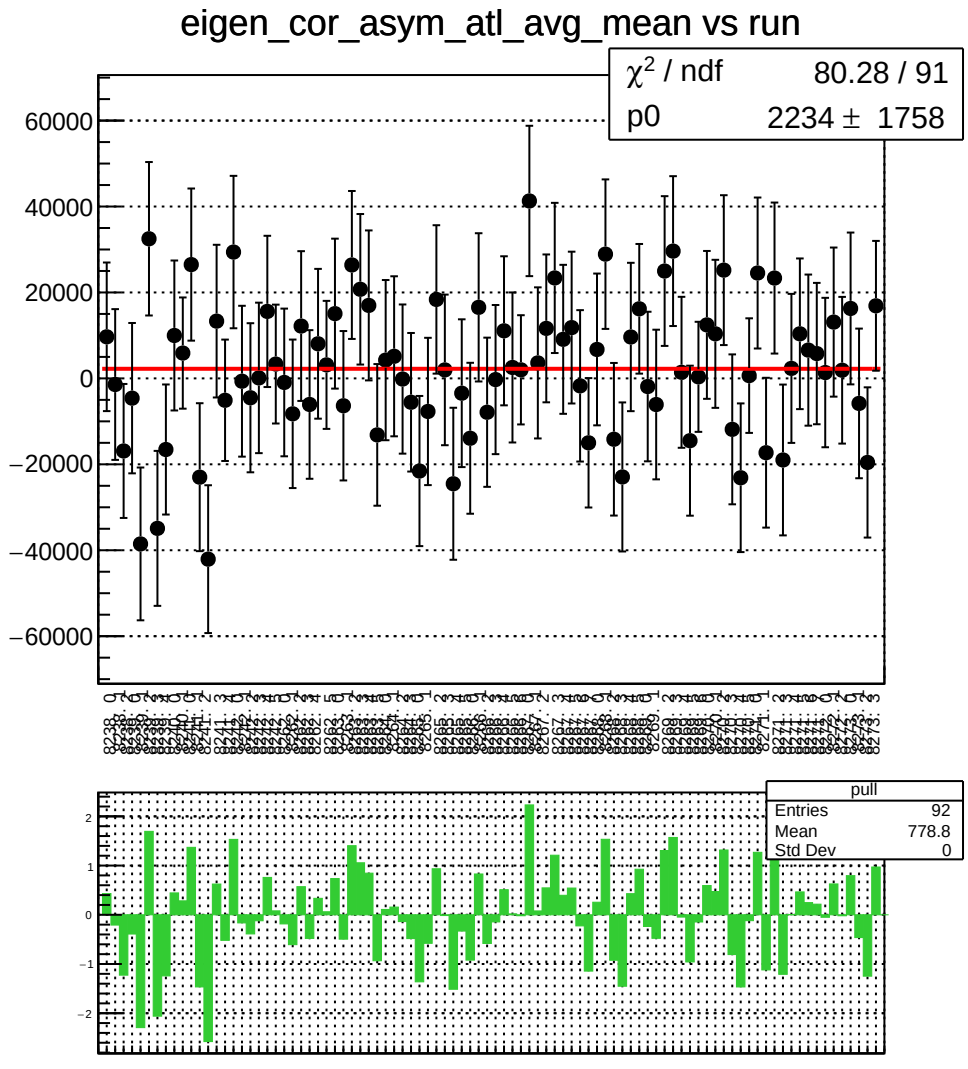

pull1D
Entries 92
Mean 0.004636
Std Dev 0.9341
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

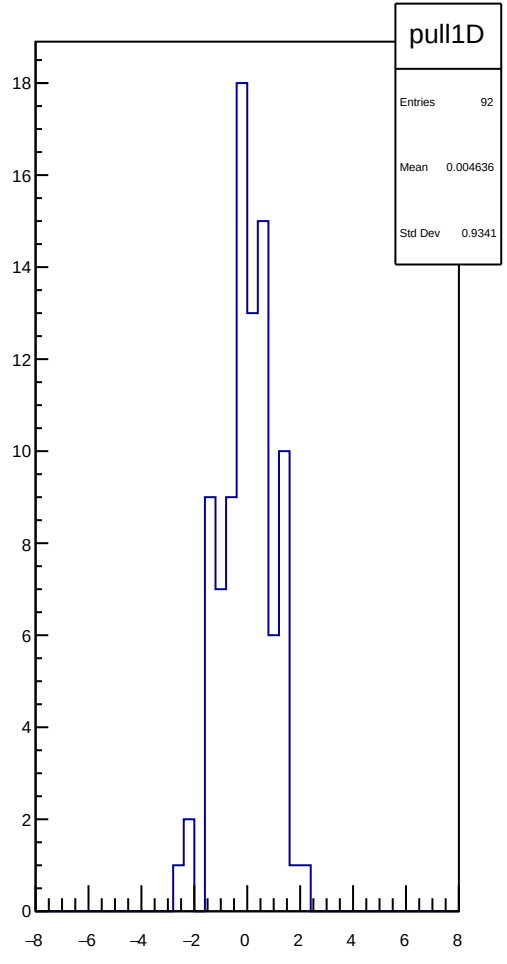

cor_asym_atl_avg_rms vs run
$\chi^2$ / ndf 336.7 / 91
p0 1660 ± 1.243
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600

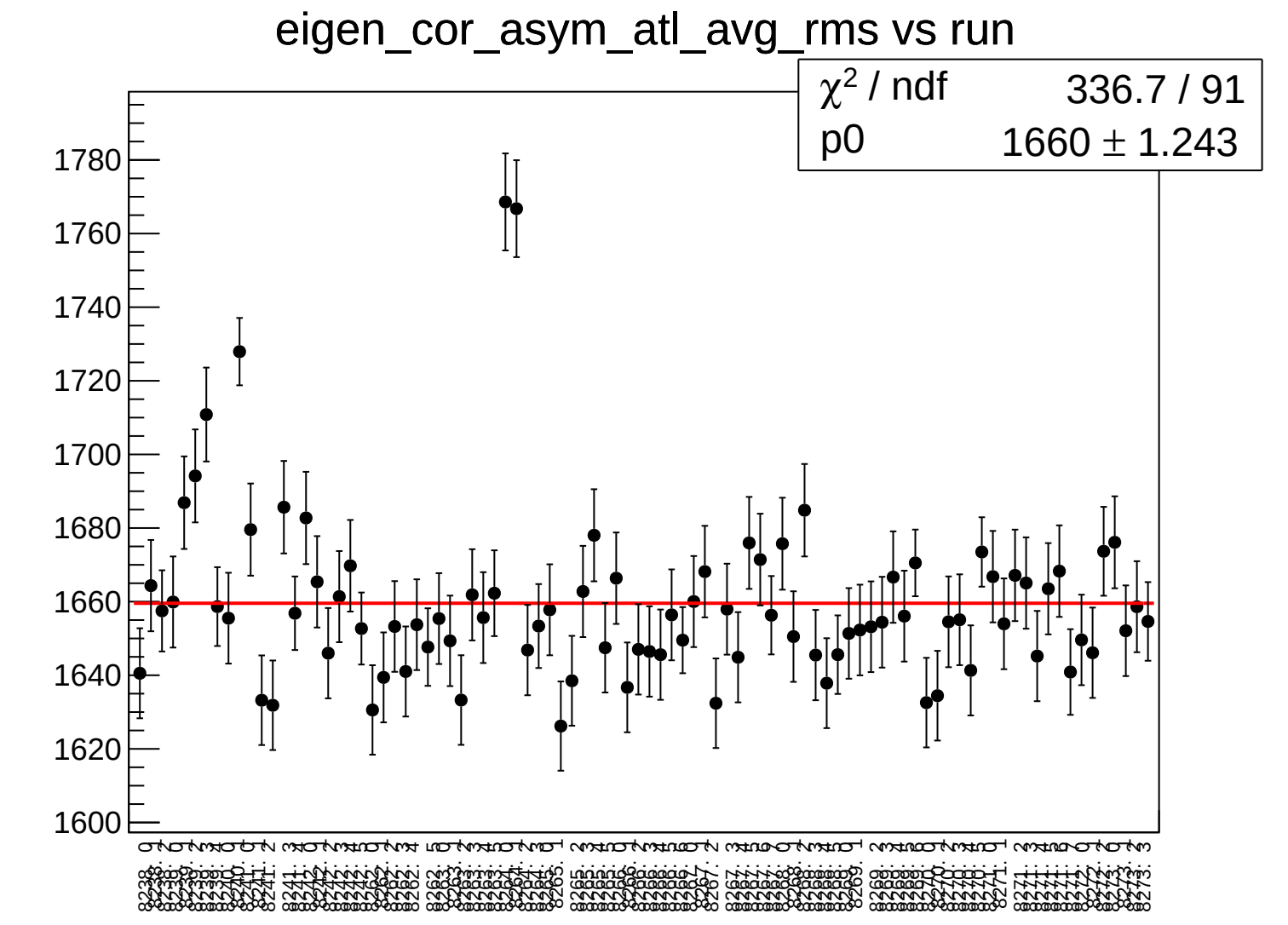

asym_atl_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 69.16 / 91
p0 1.081e+04 ± 5546
pull
Entries 92
Mean −693.9
Std Dev 0

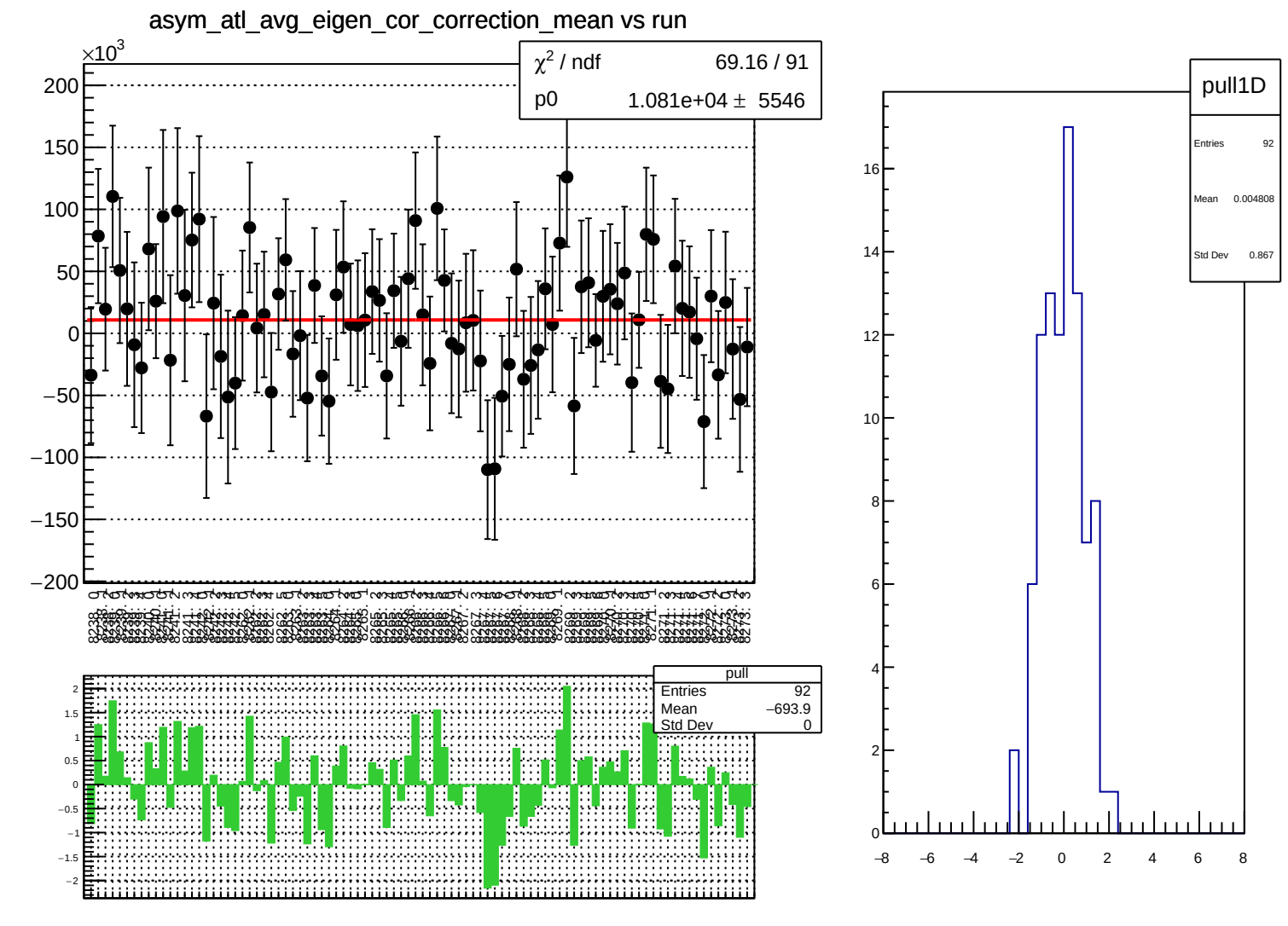

pull1D
Entries 92
Mean 0.004808
Std Dev 0.867

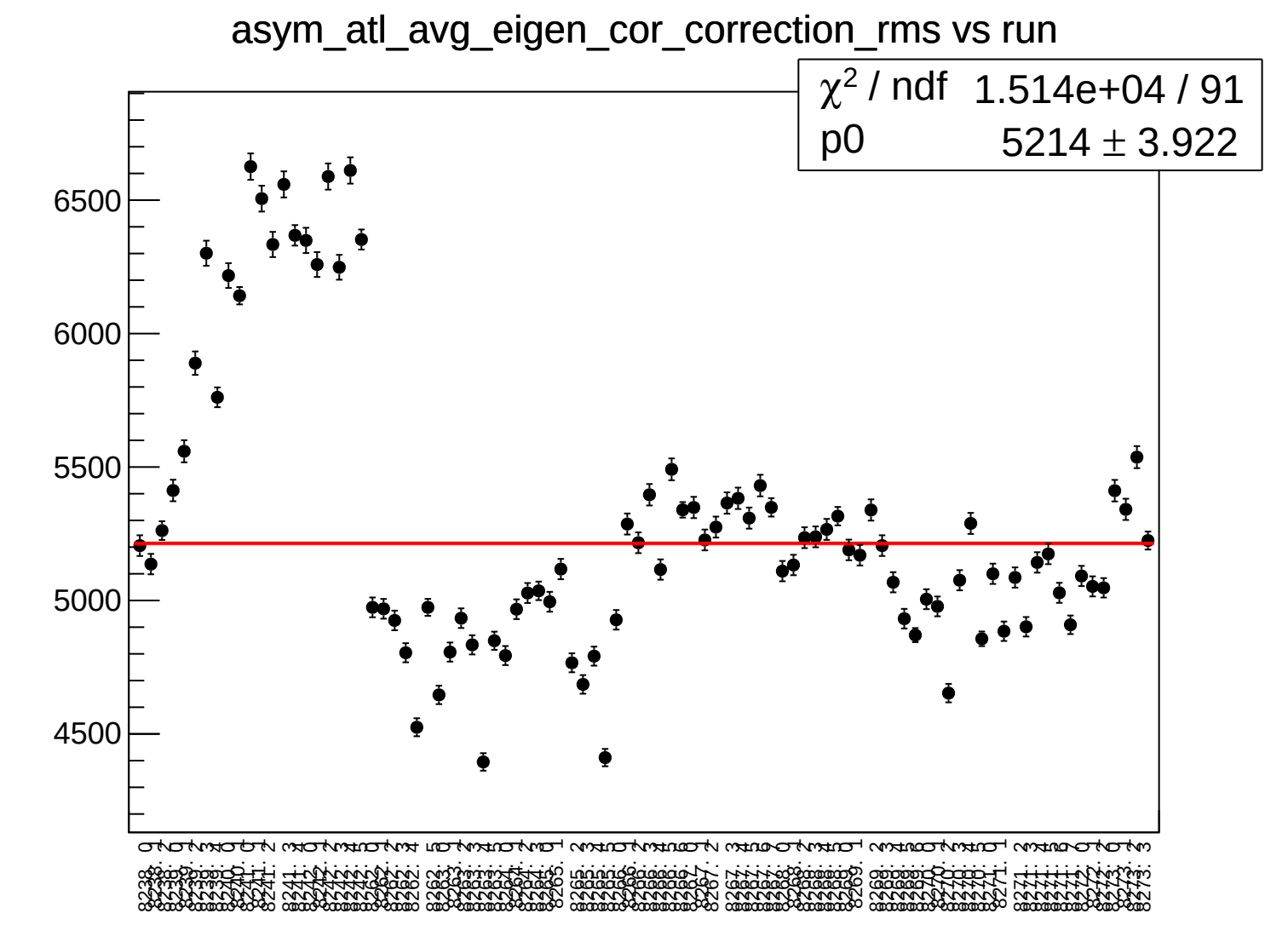

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 1.514e+04 / 91
p0 5214 ± 3.922
6500
6000
5500
5000
4500

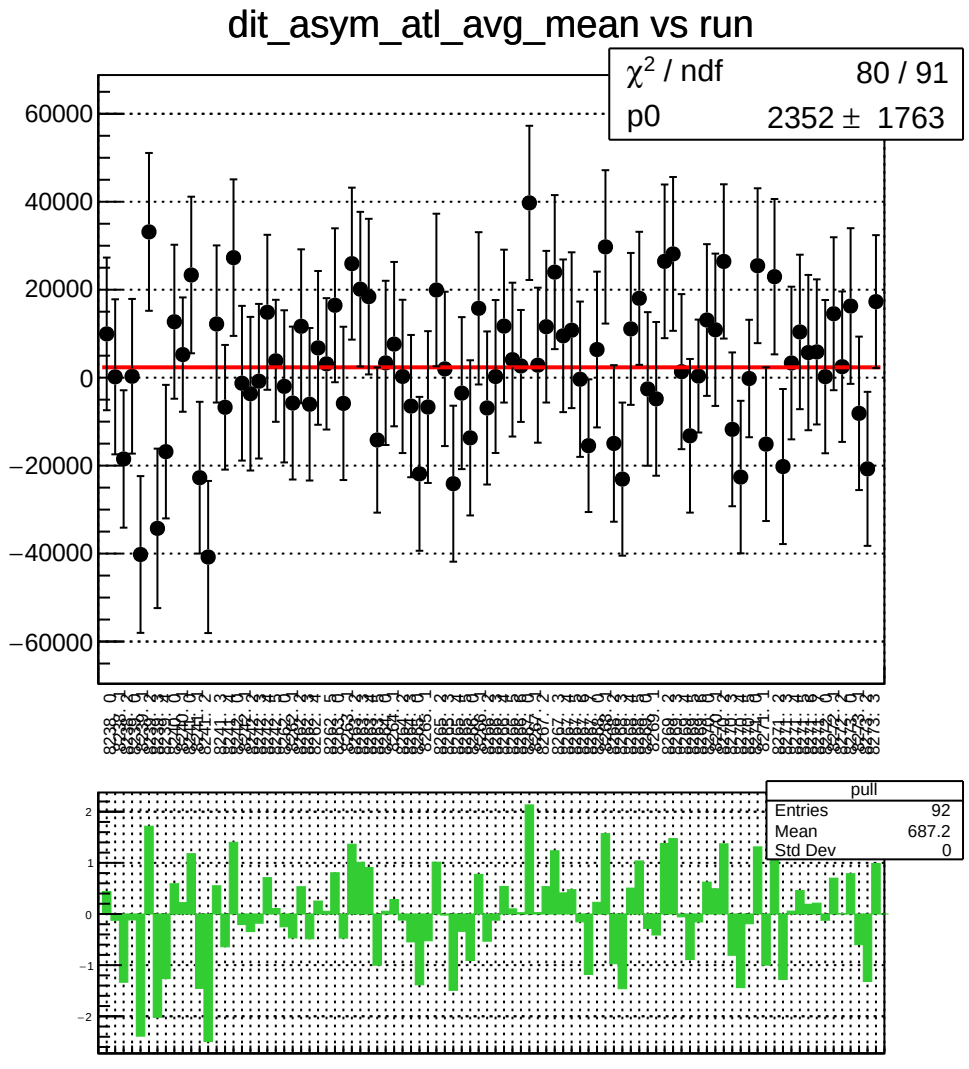

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 80.28 / 91
p0 2234 ± 1758
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 778.8
Std Dev 0
2
1
0
−1
−2

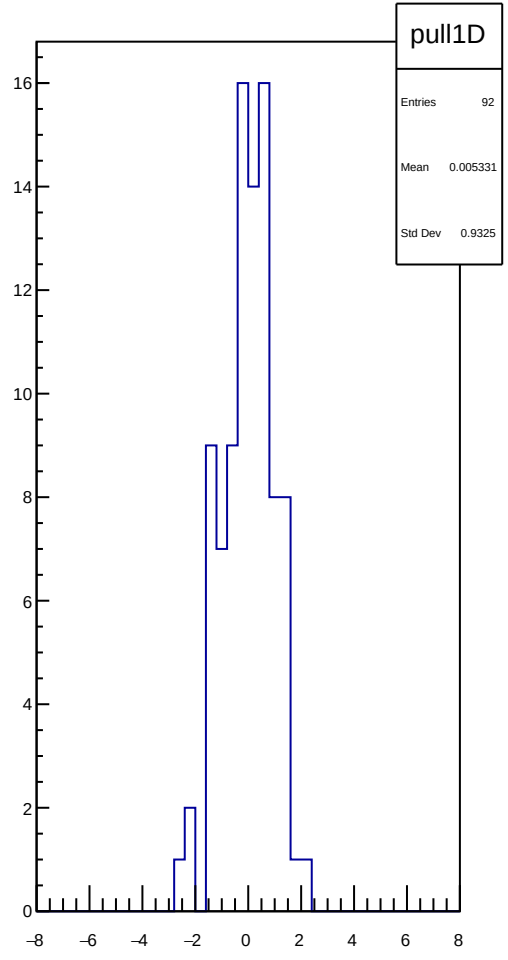

pull1D
Entries 92
Mean 0.004636
Std Dev 0.9341
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

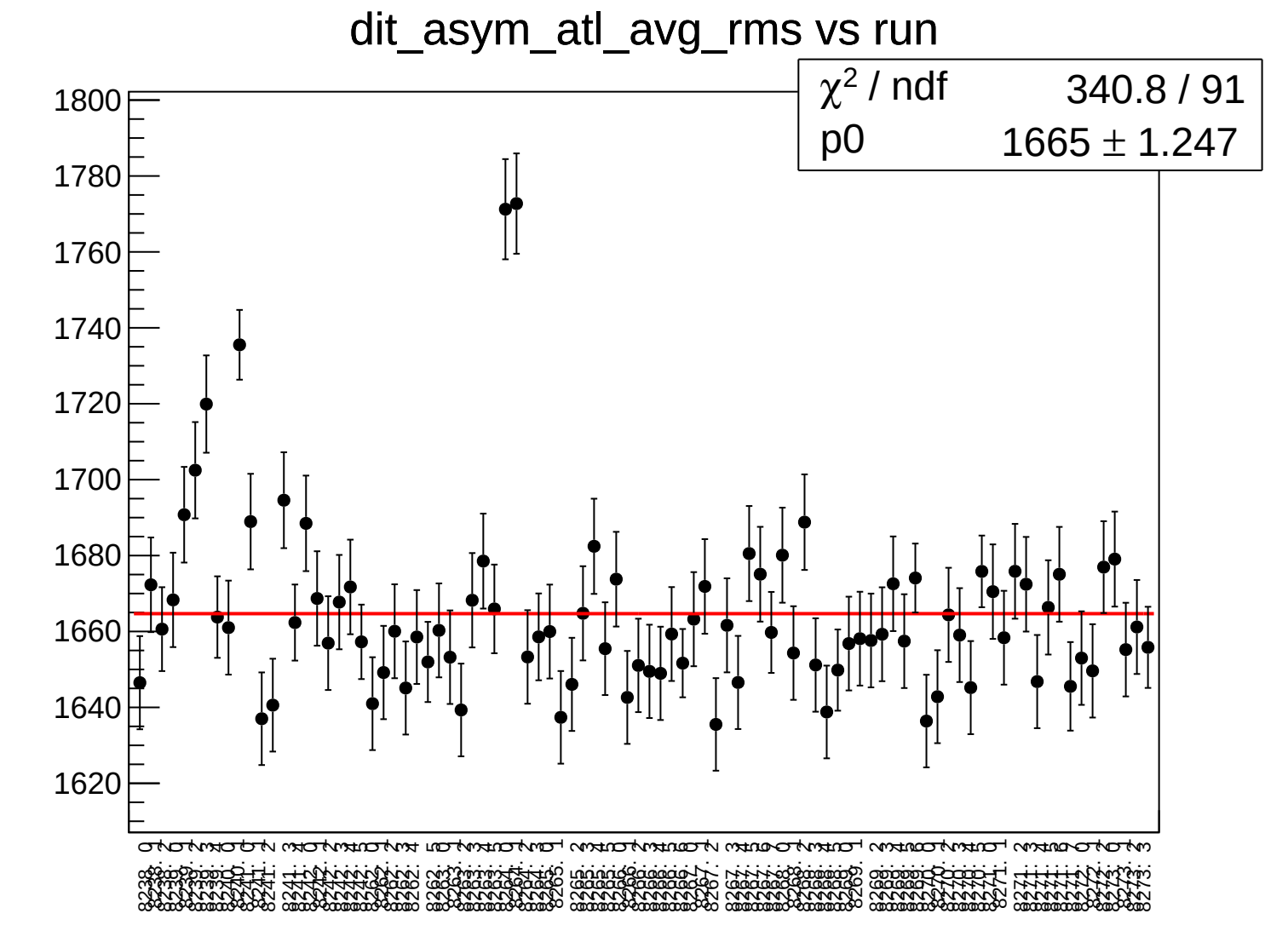

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 336.7 / 91
p0 1660 ± 1.243
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600

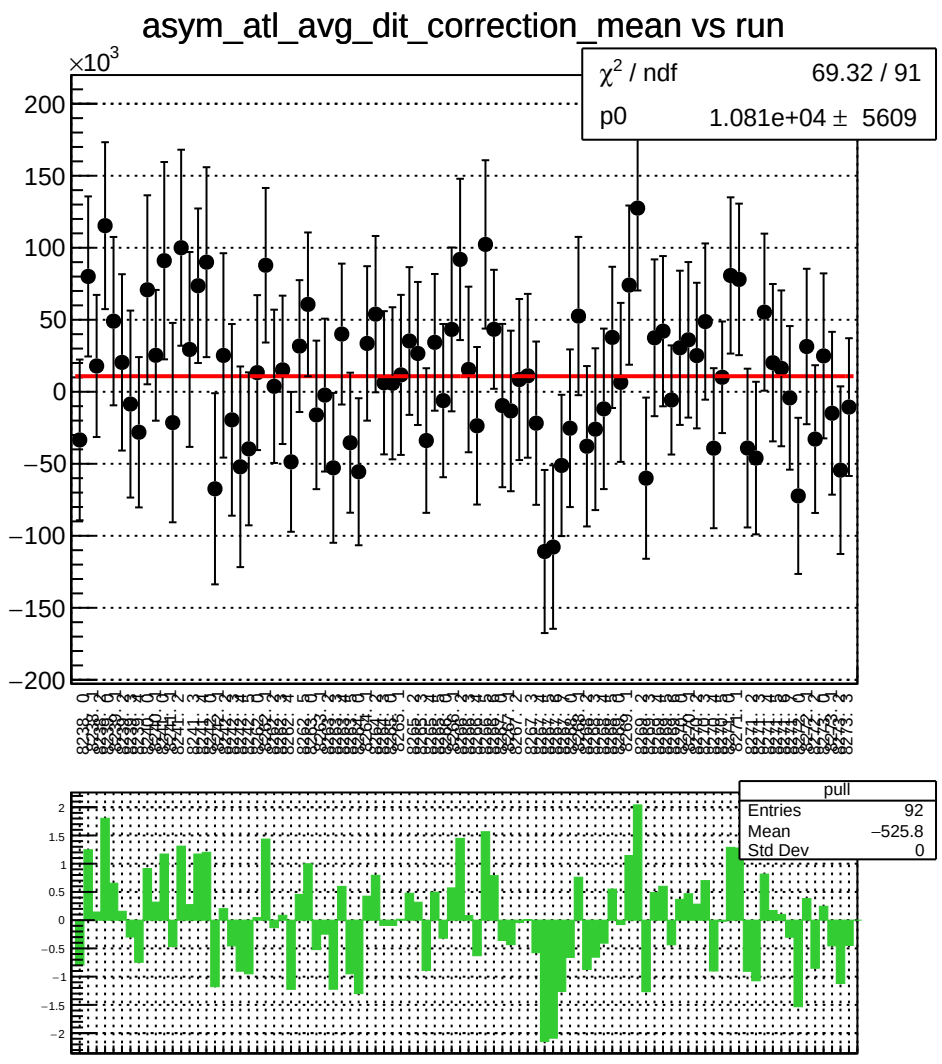

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69.16 / 91
p0 1.081e+04 ± 5546
pull
Entries 92
Mean −693.9
Std Dev 0
pull1D
Entries 92
Mean 0.004808
Std Dev 0.867

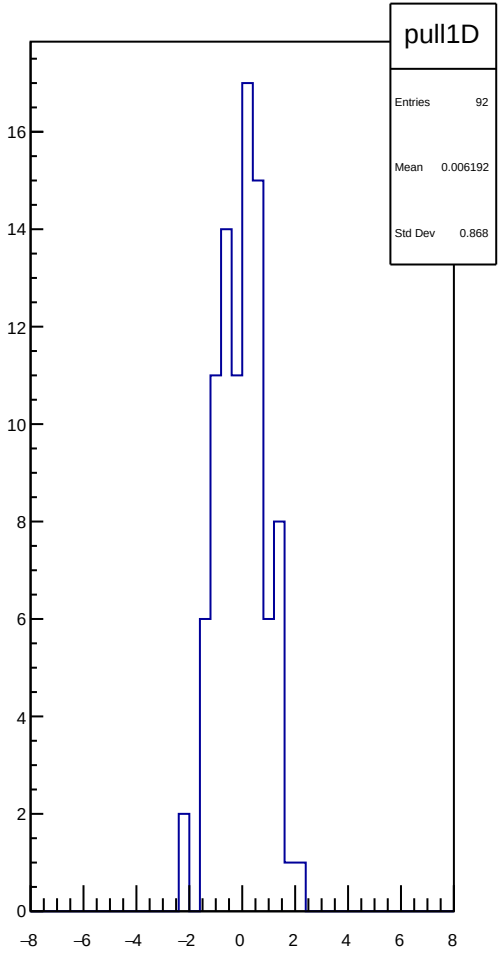

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.514e+04 / 91
p0 5214 ± 3.922
6500
6000
5500
5000
4500

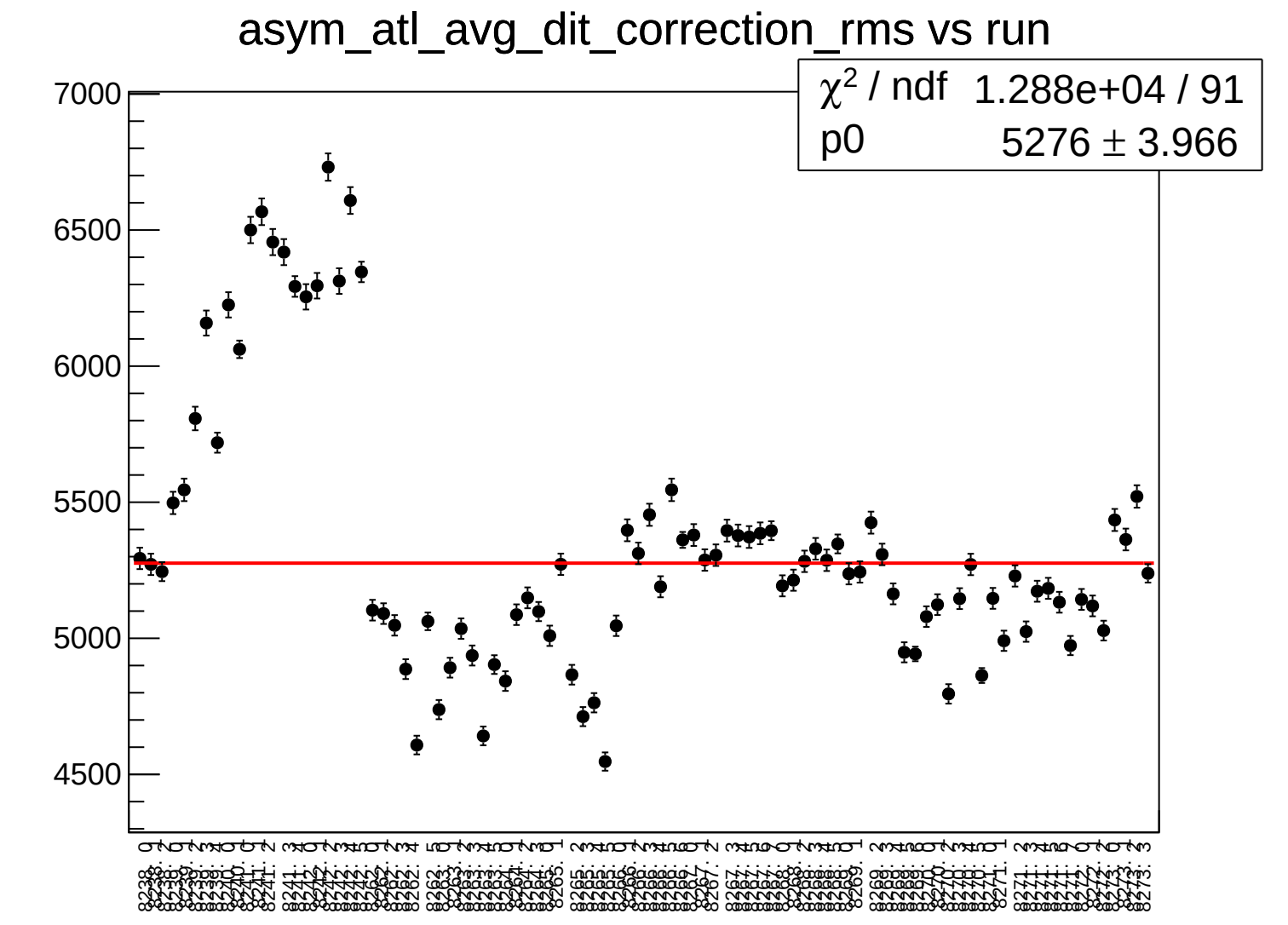

dit_asym_atl_avg_mean vs run
χ² / ndf 80 / 91
p0 2352 ± 1763
pull
Entries 92
Mean 687.2
Std Dev 0

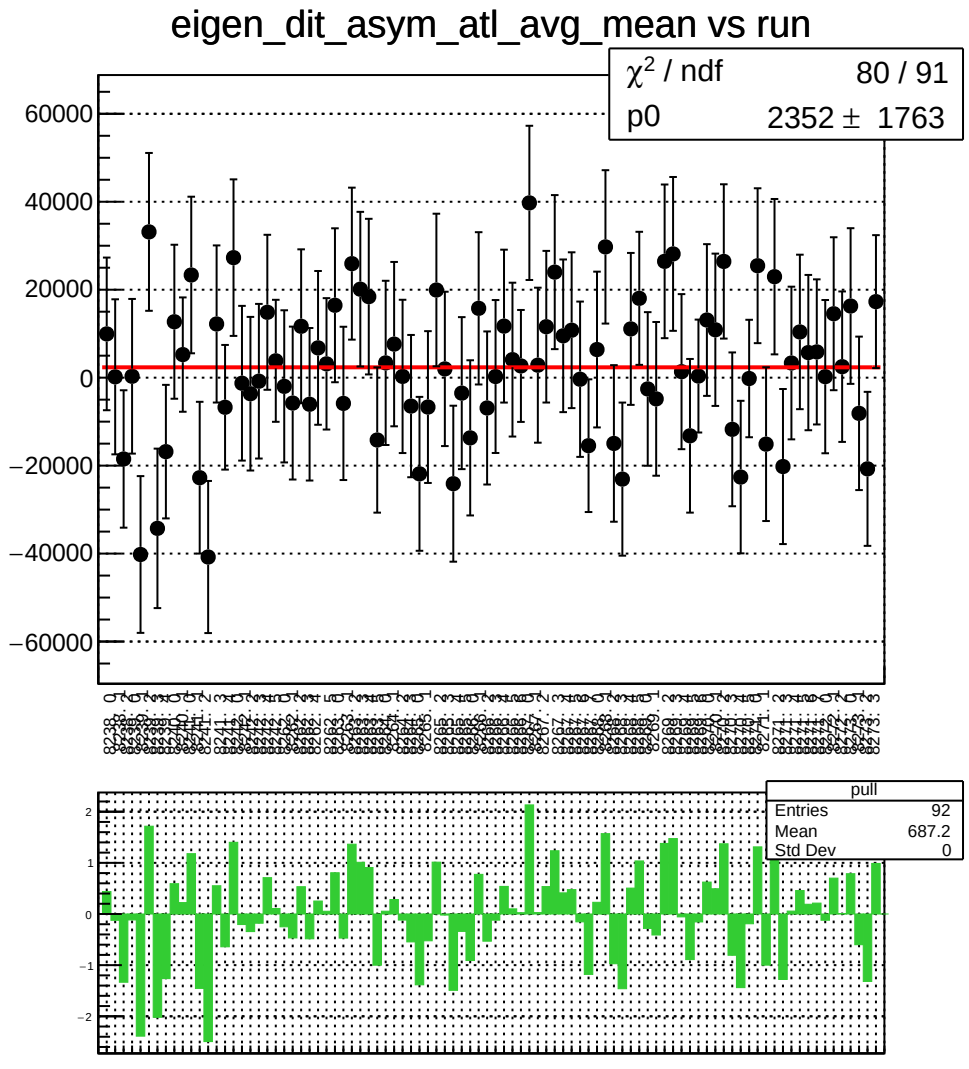

pull1D
Entries 92
Mean 0.005331
Std Dev 0.9325

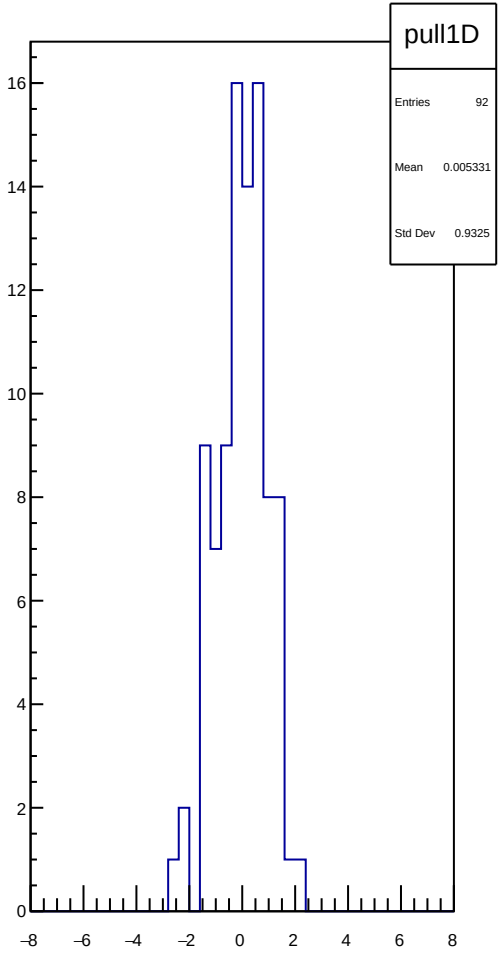

dit_asym_atl_avg_rms vs run
χ² / ndf 340.8 / 91
p0 1665 ± 1.247
1800
1780
1760
1740
1720
1700
1680
1660
1640
1620

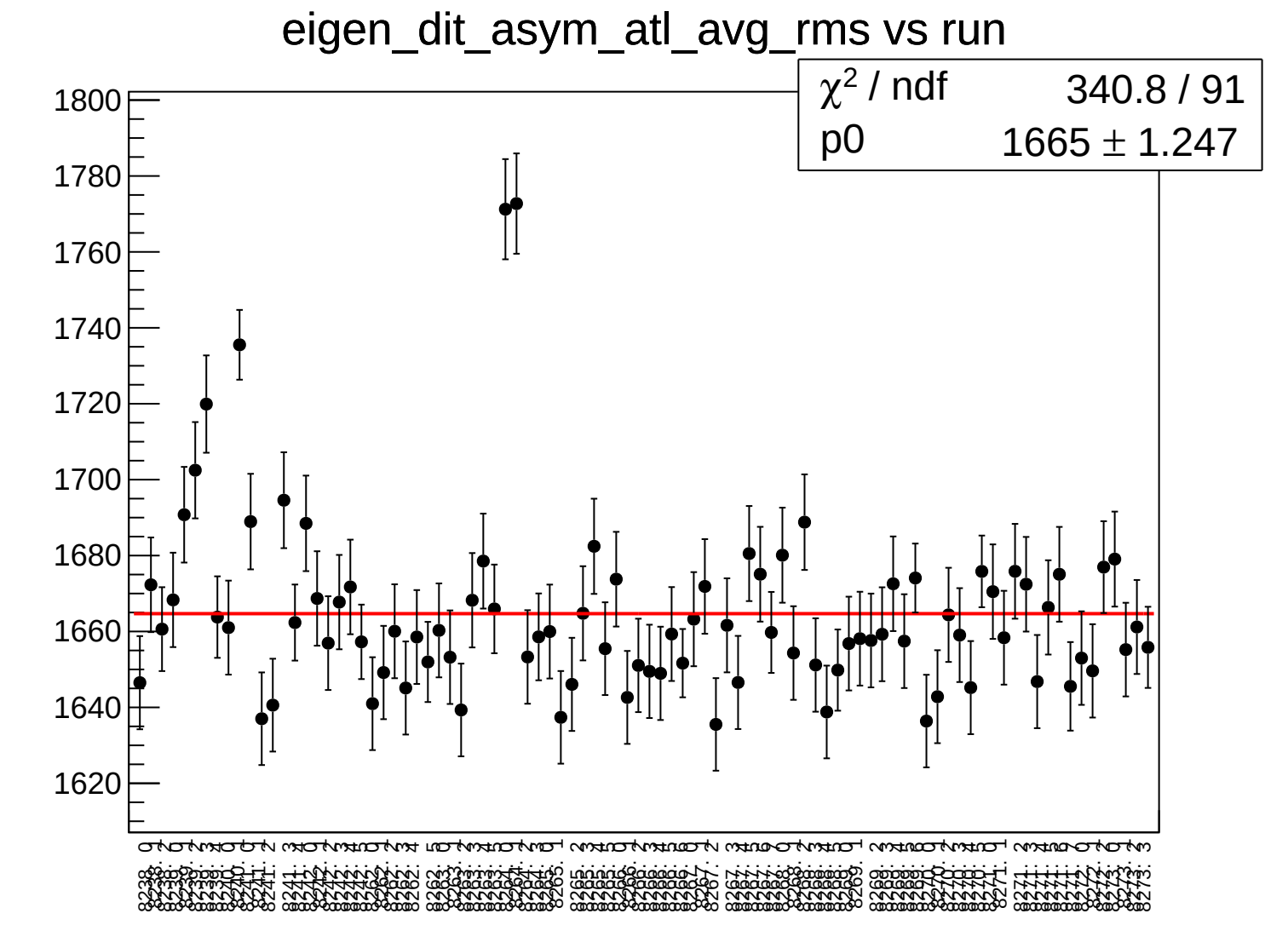

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 69.32 / 91
p0 1.081e+04 ± 5609
pull
Entries 92
Mean −525.8
Std Dev 0

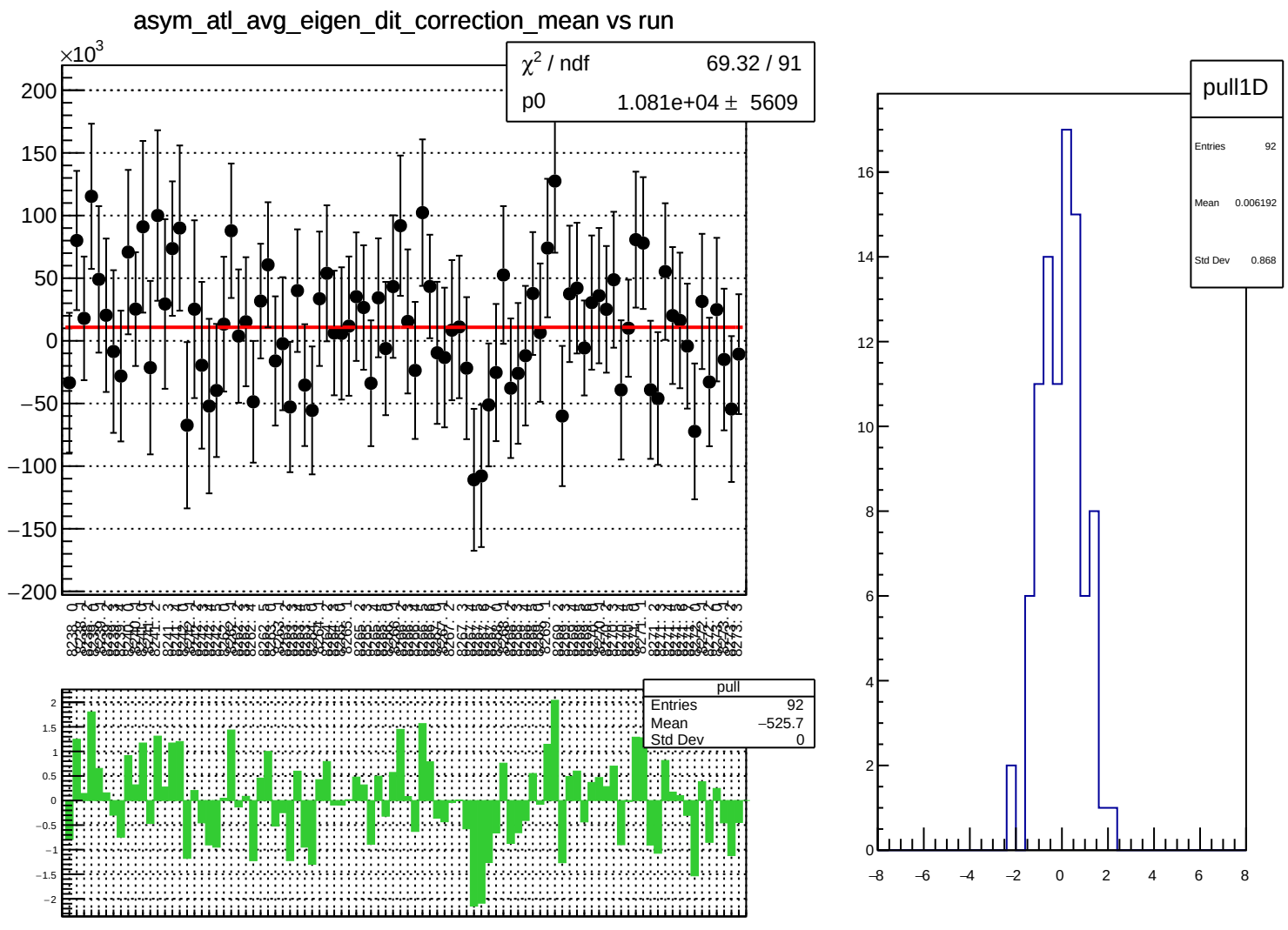

pull1D
Entries 92
Mean 0.006192
Std Dev 0.868

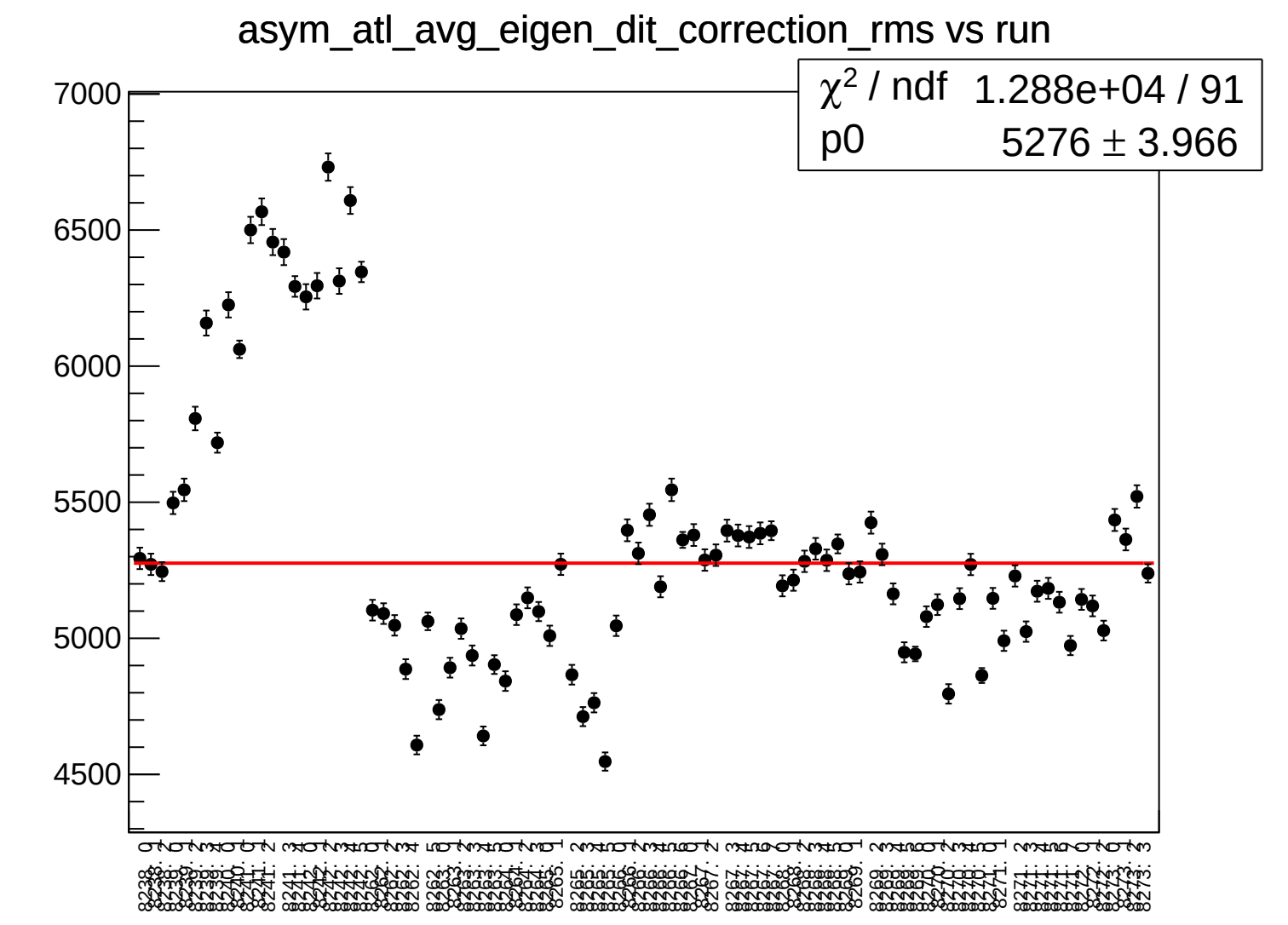

asym_atl_avg_dit_correction_rms vs run
$\chi^2$ / ndf 1.288e+04 / 91
p0 5276 ± 3.966
7000
6500
6000
5500
5000
4500

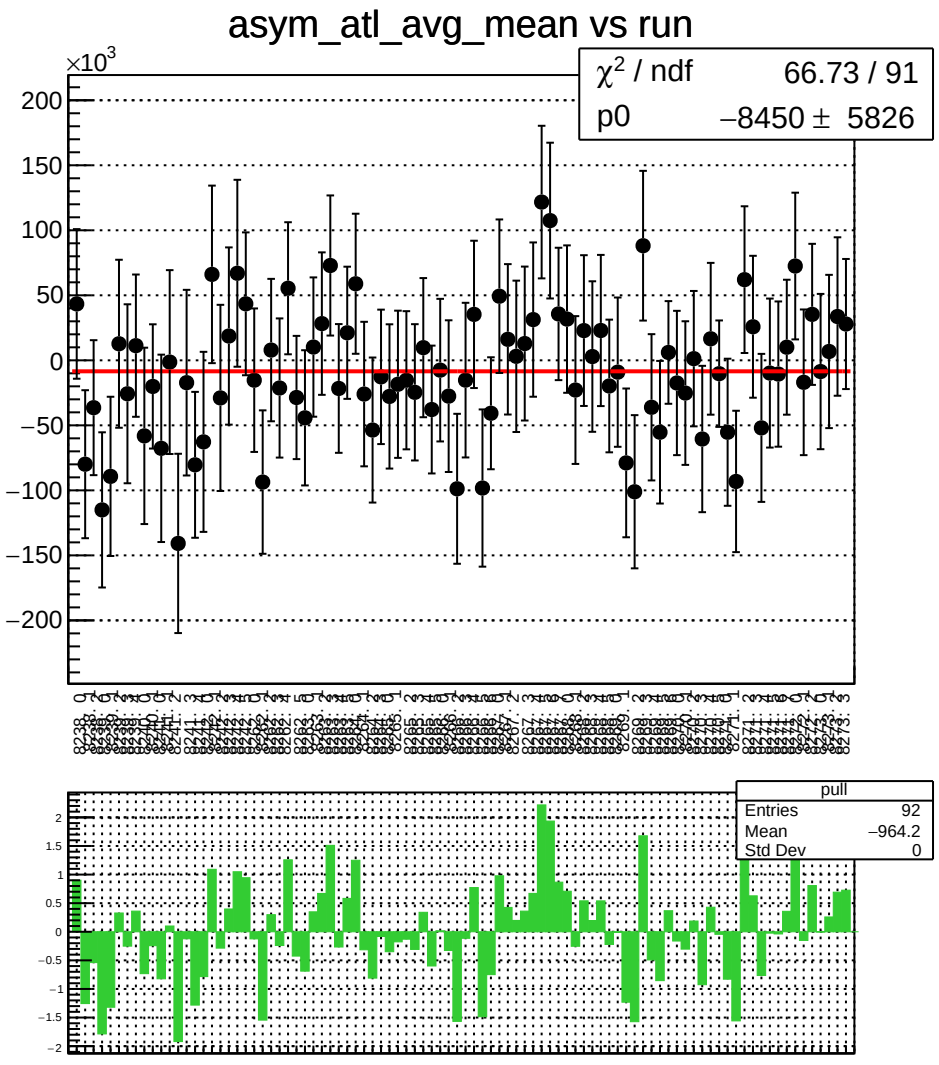

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 80 / 91
p0 2352 ± 1763
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 687.2
Std Dev 0
2
1
0
−1
−2

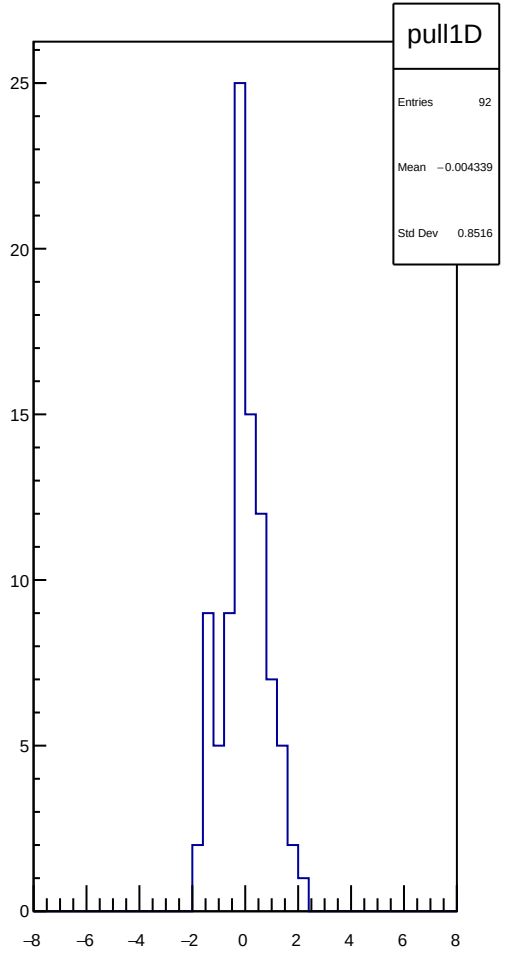

pull1D
Entries 92
Mean 0.005331
Std Dev 0.9325
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

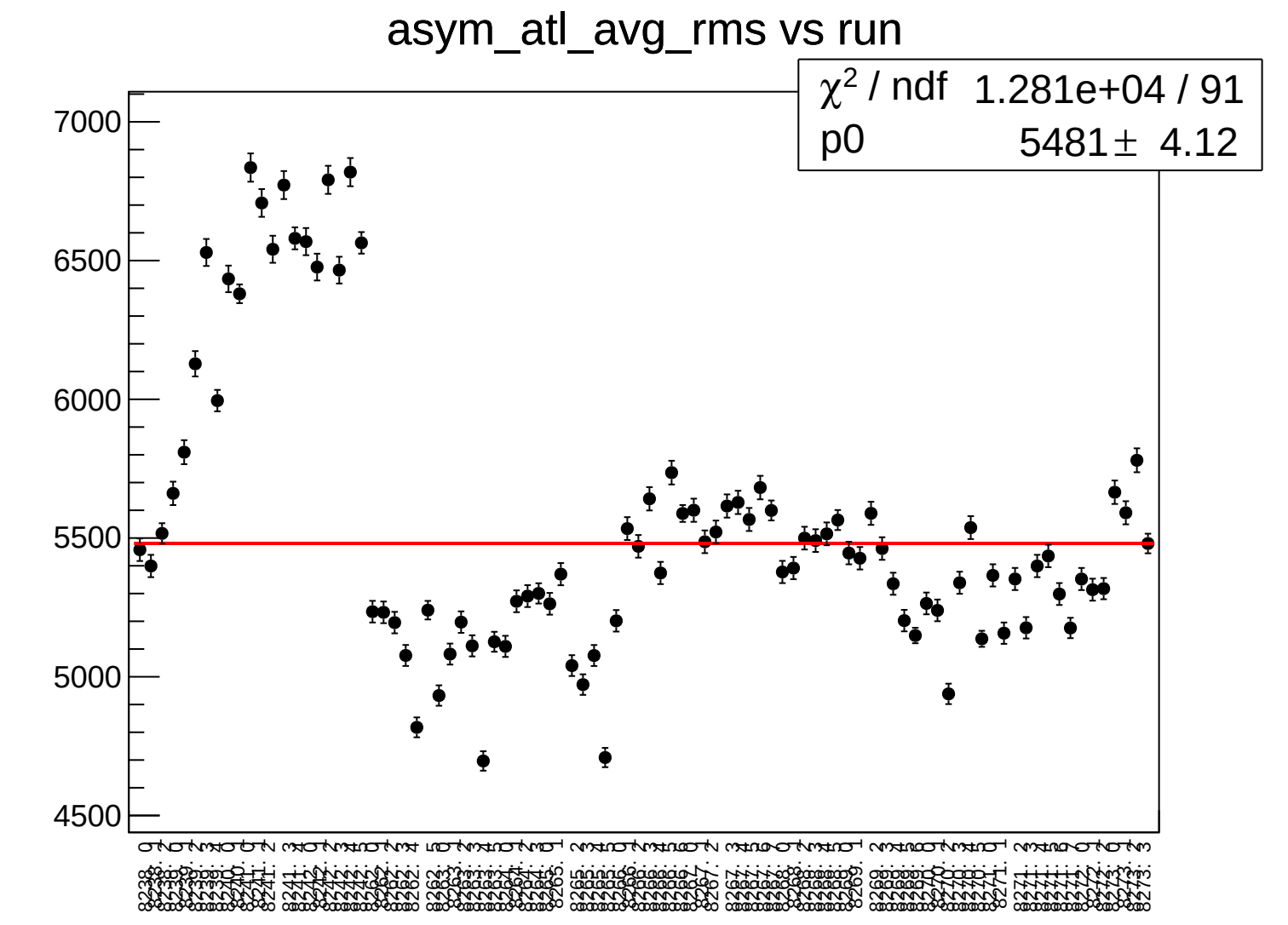

eigen_dit_asym_atl_avg_rms vs run
$\chi^2$ / ndf 340.8 / 91
p0 1665 ± 1.247
1800
1780
1760
1740
1720
1700
1680
1660
1640
1620

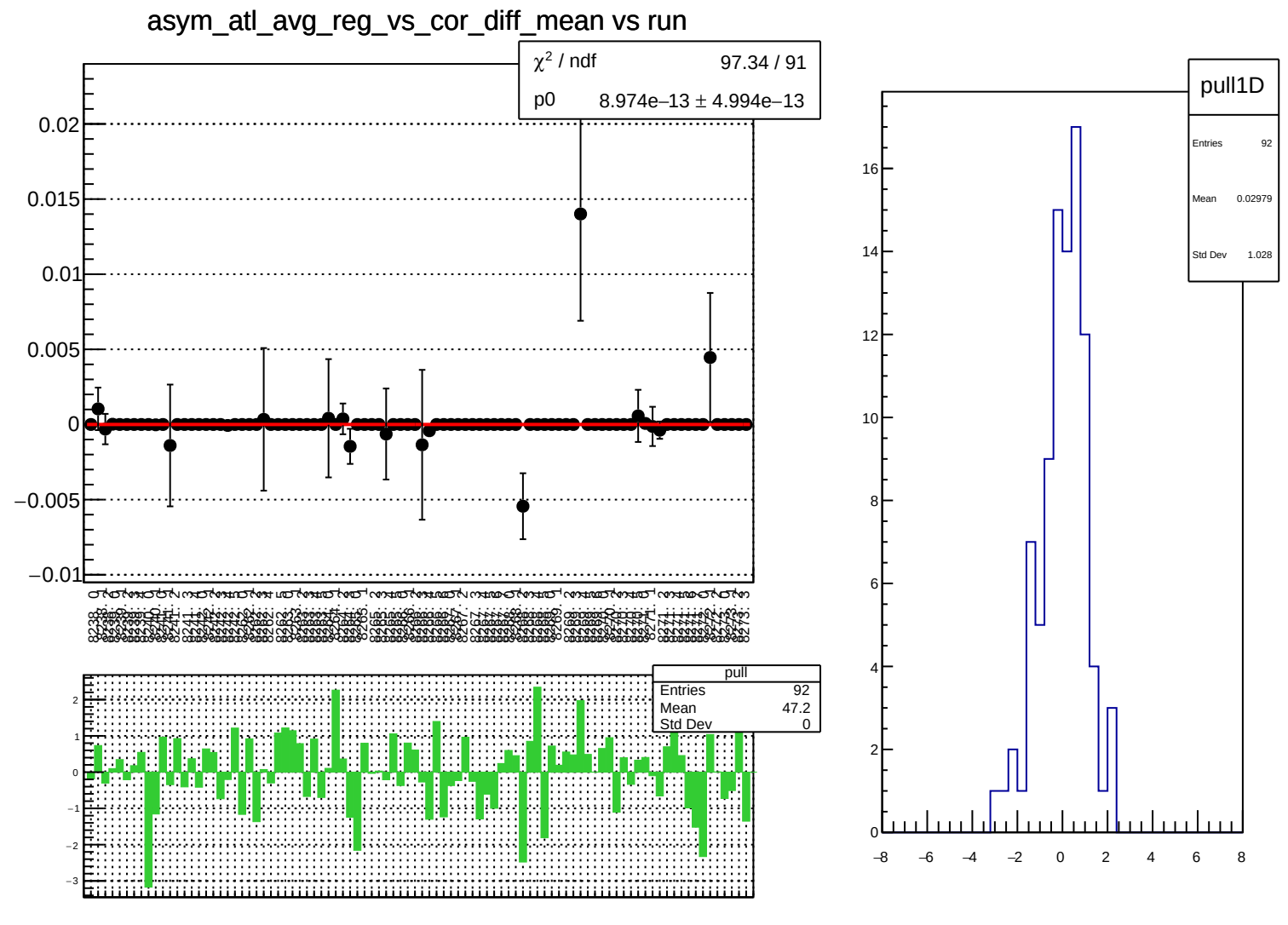

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 69.32 / 91
p0 1.081e+04 ± 5609
pull
Entries 92
Mean −525.7
Std Dev 0
pull1D
Entries 92
Mean 0.006192
Std Dev 0.868

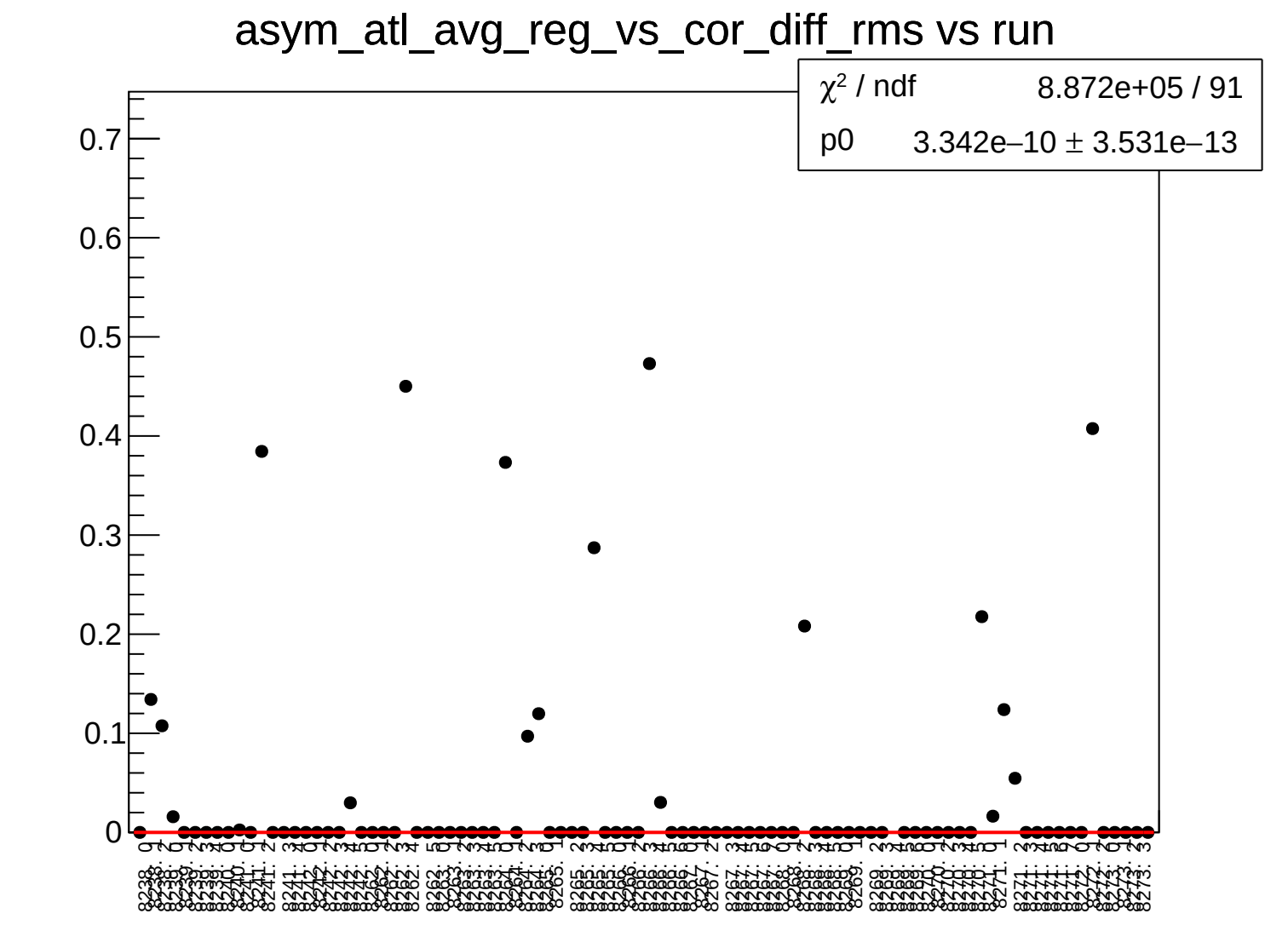

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.288e+04 / 91
p0 5276 ± 3.966
7000
6500
6000
5500
5000
4500

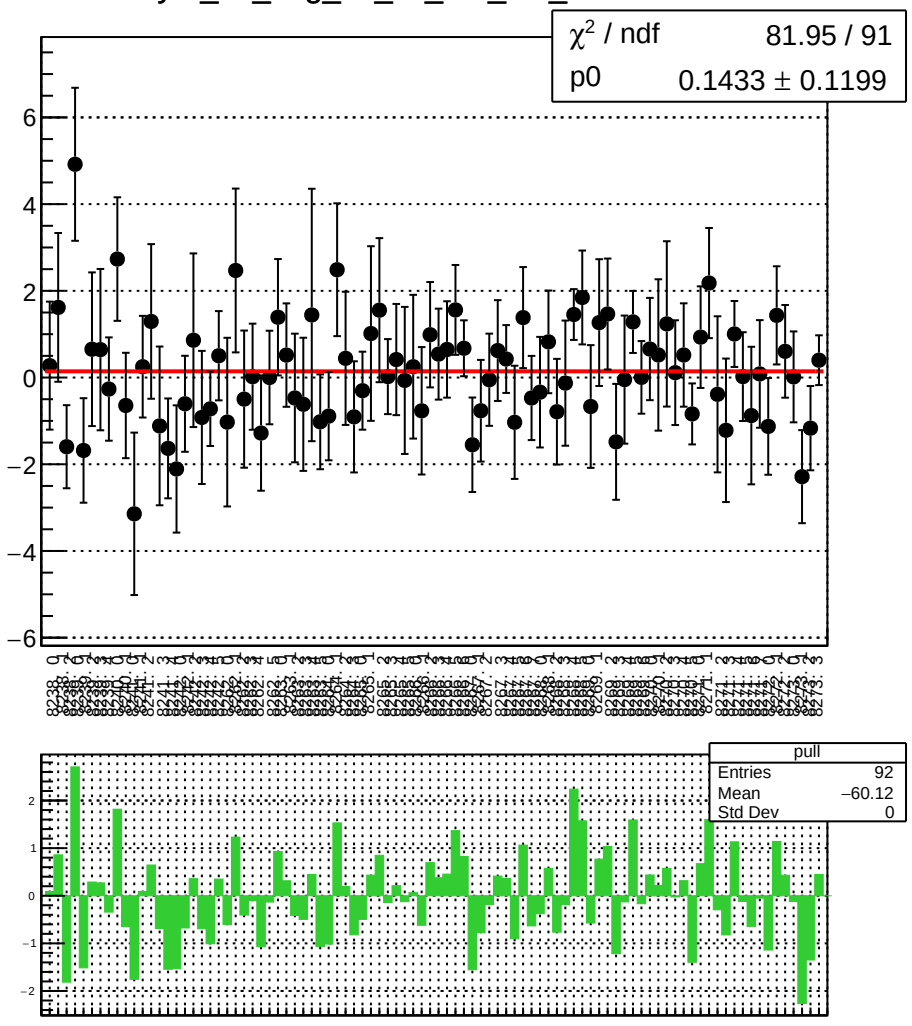

asym_atl_avg_mean vs run
×10^3
χ² / ndf 66.73 / 91
p0 −8450 ± 5826
pull
Entries 92
Mean −964.2
Std Dev 0

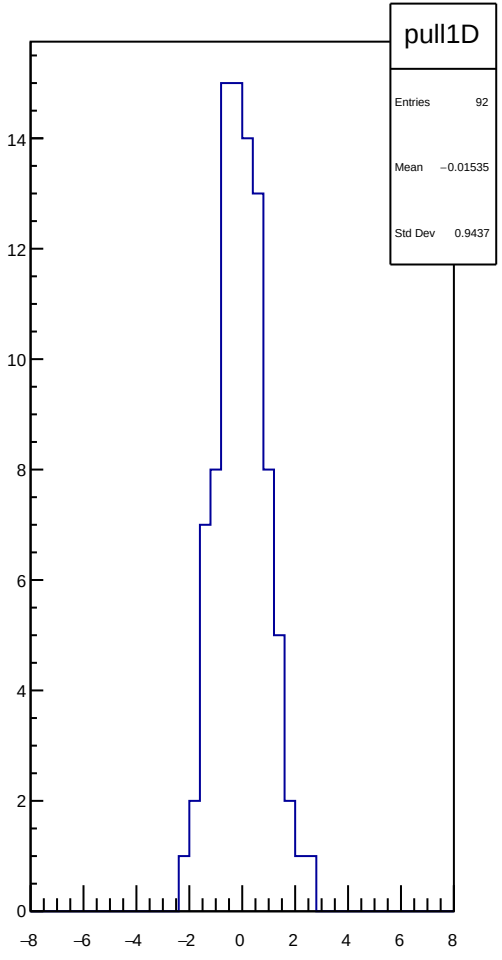

pull1D
Entries 92
Mean −0.004339
Std Dev 0.8516

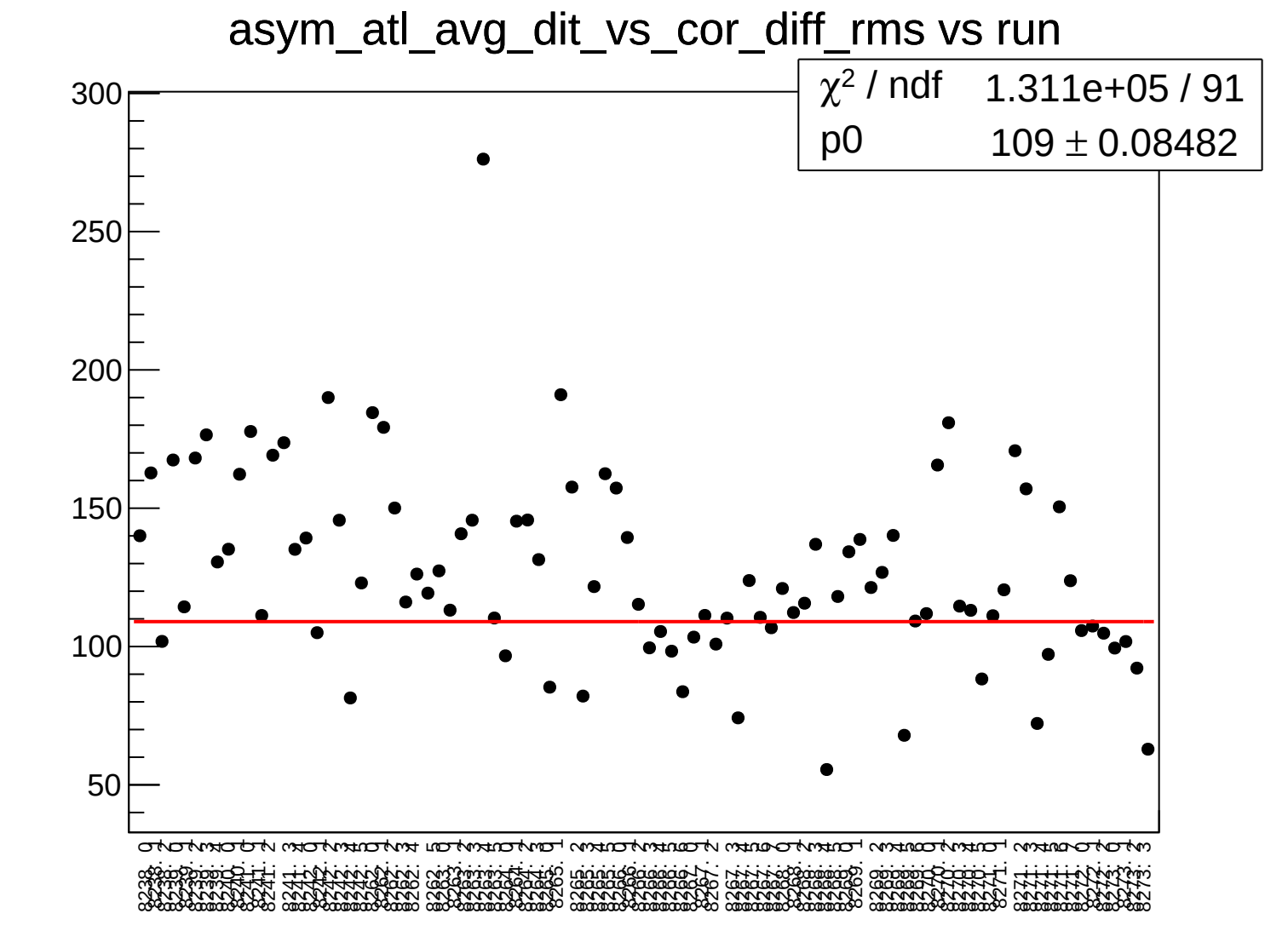

asym_atl_avg_rms vs run
χ² / ndf 1.281e+04 / 91
p0 5481 ± 4.12
7000
6500
6000
5500
5000
4500

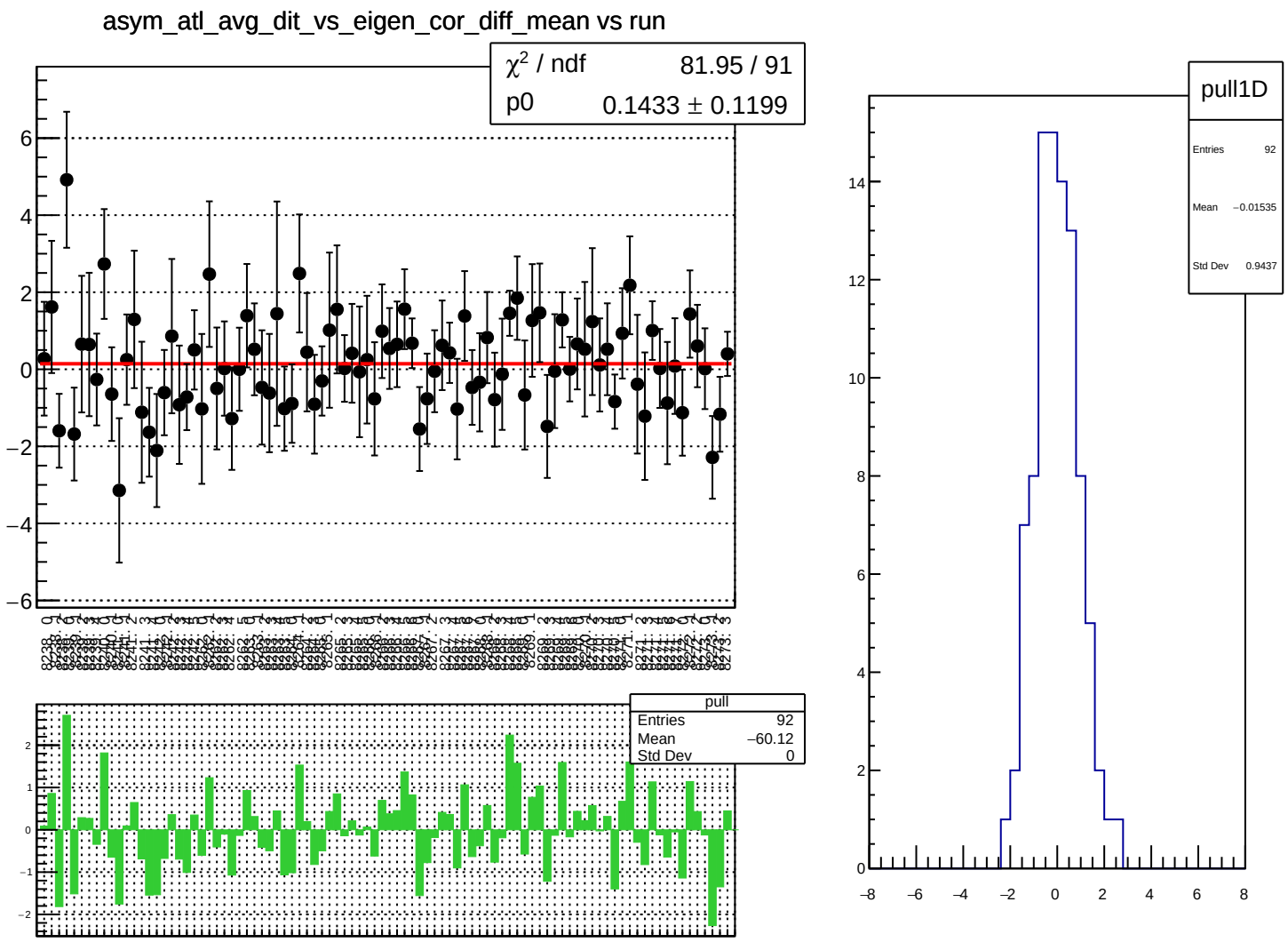

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.34 / 91
p0 8.974e−13 ± 4.994e−13
pull
Entries 92
Mean 47.2
Std Dev 0
pull1D
Entries 92
Mean 0.02979
Std Dev 1.028

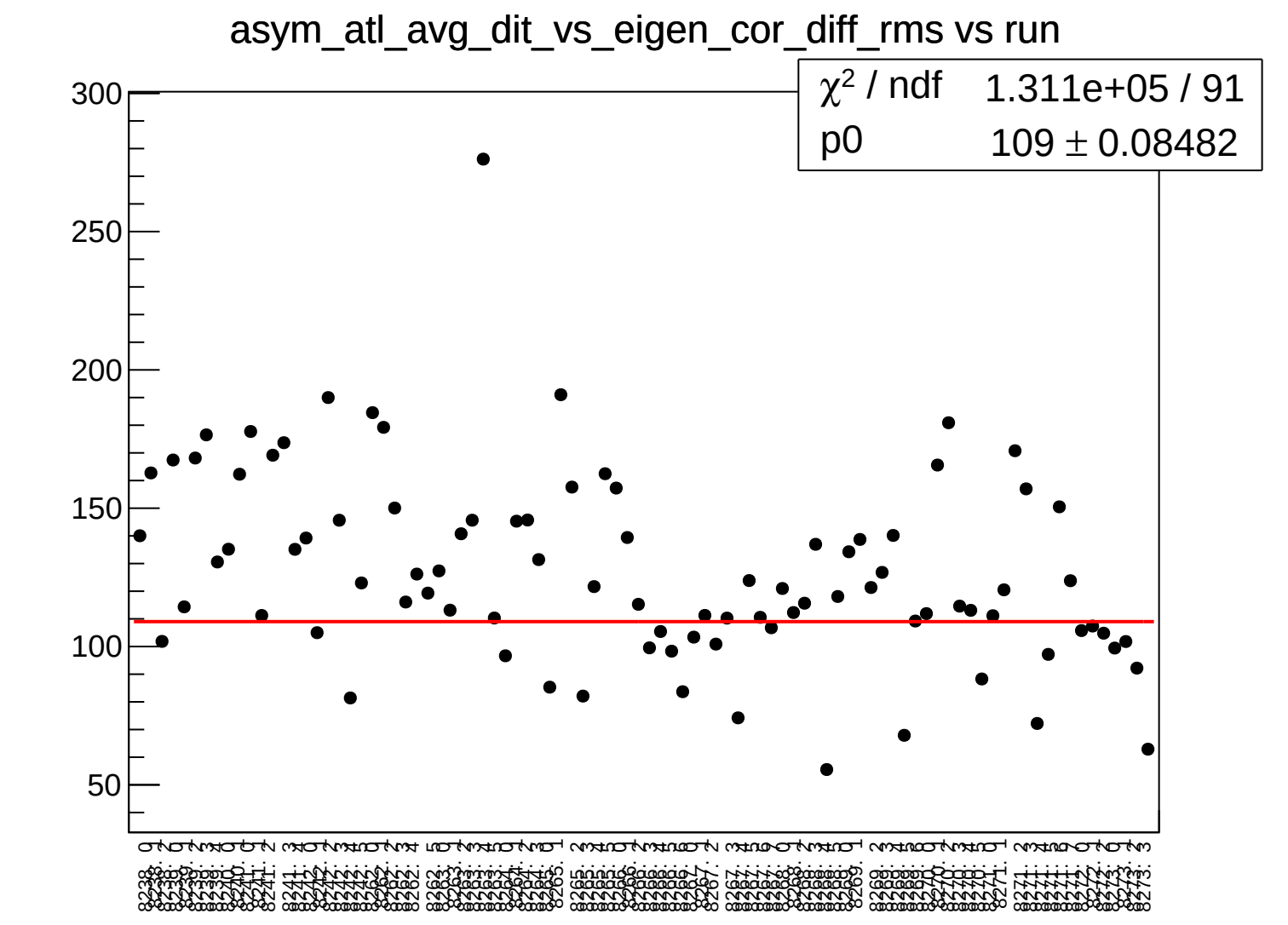

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.872e+05 / 91
p0 3.342e−10 ± 3.531e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

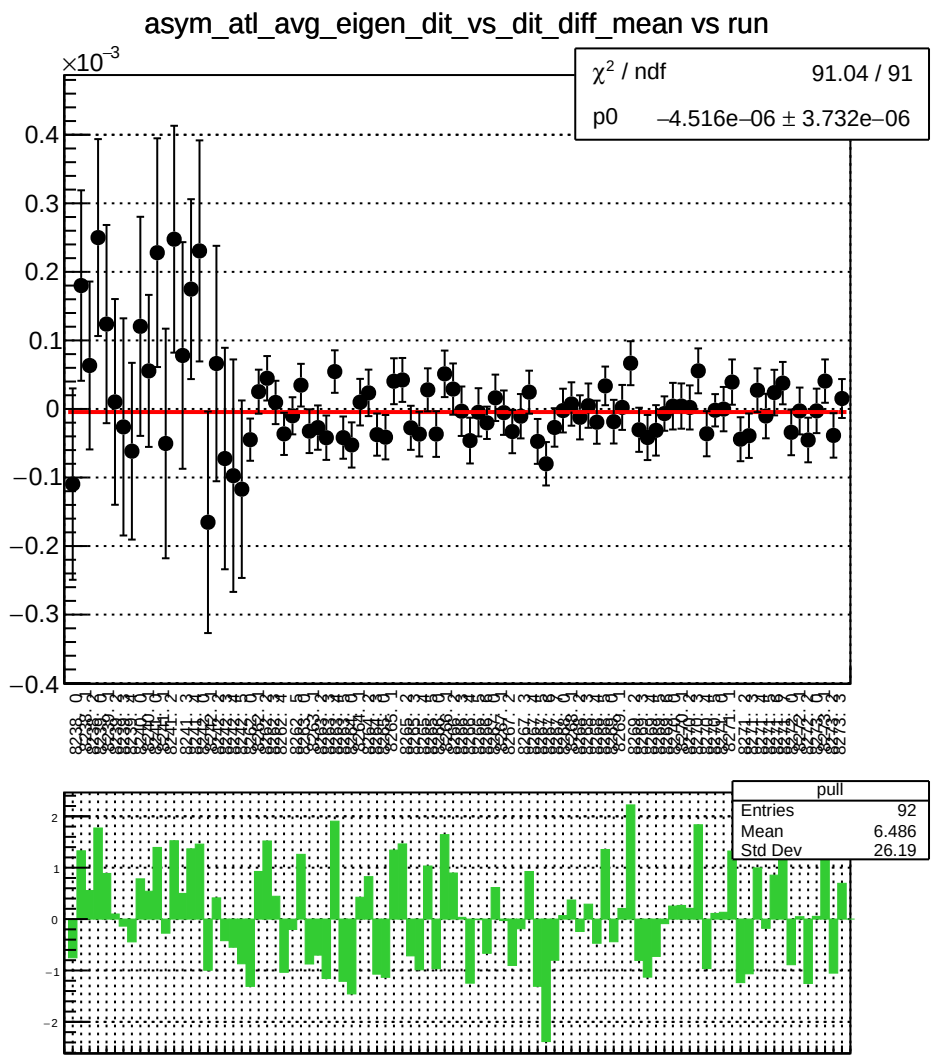

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.95 / 91
p0 0.1433 ± 0.1199
pull
Entries 92
Mean −60.12
Std Dev 0

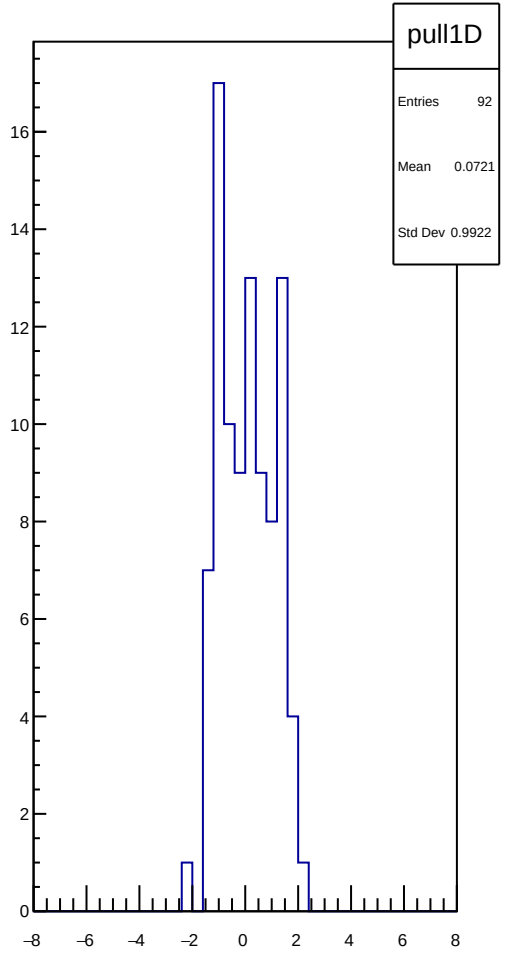

pull1D
Entries 92
Mean −0.01535
Std Dev 0.9437

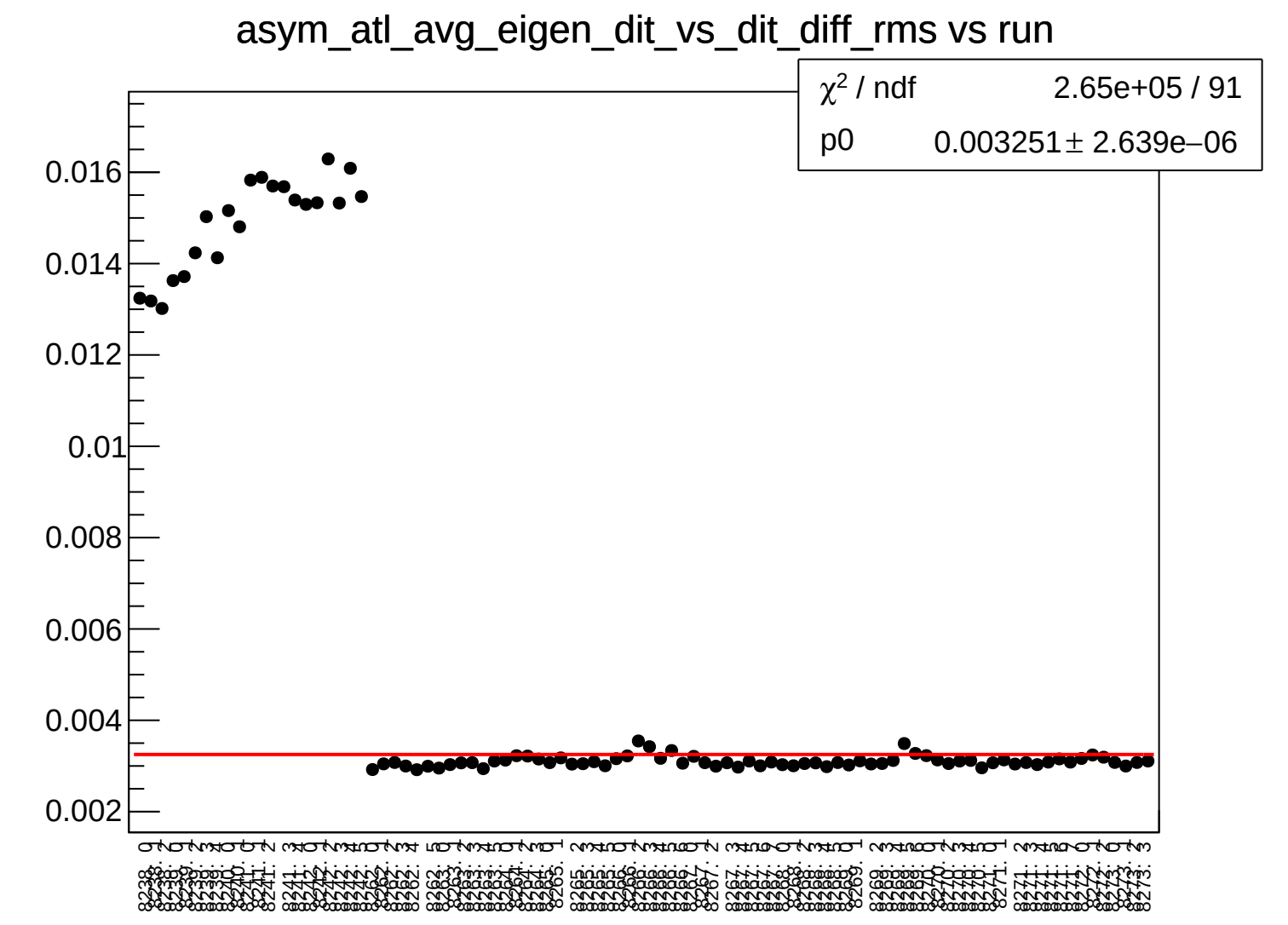

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.311e+05 / 91
p0 109 ± 0.08482
300
250
200
150
100
50

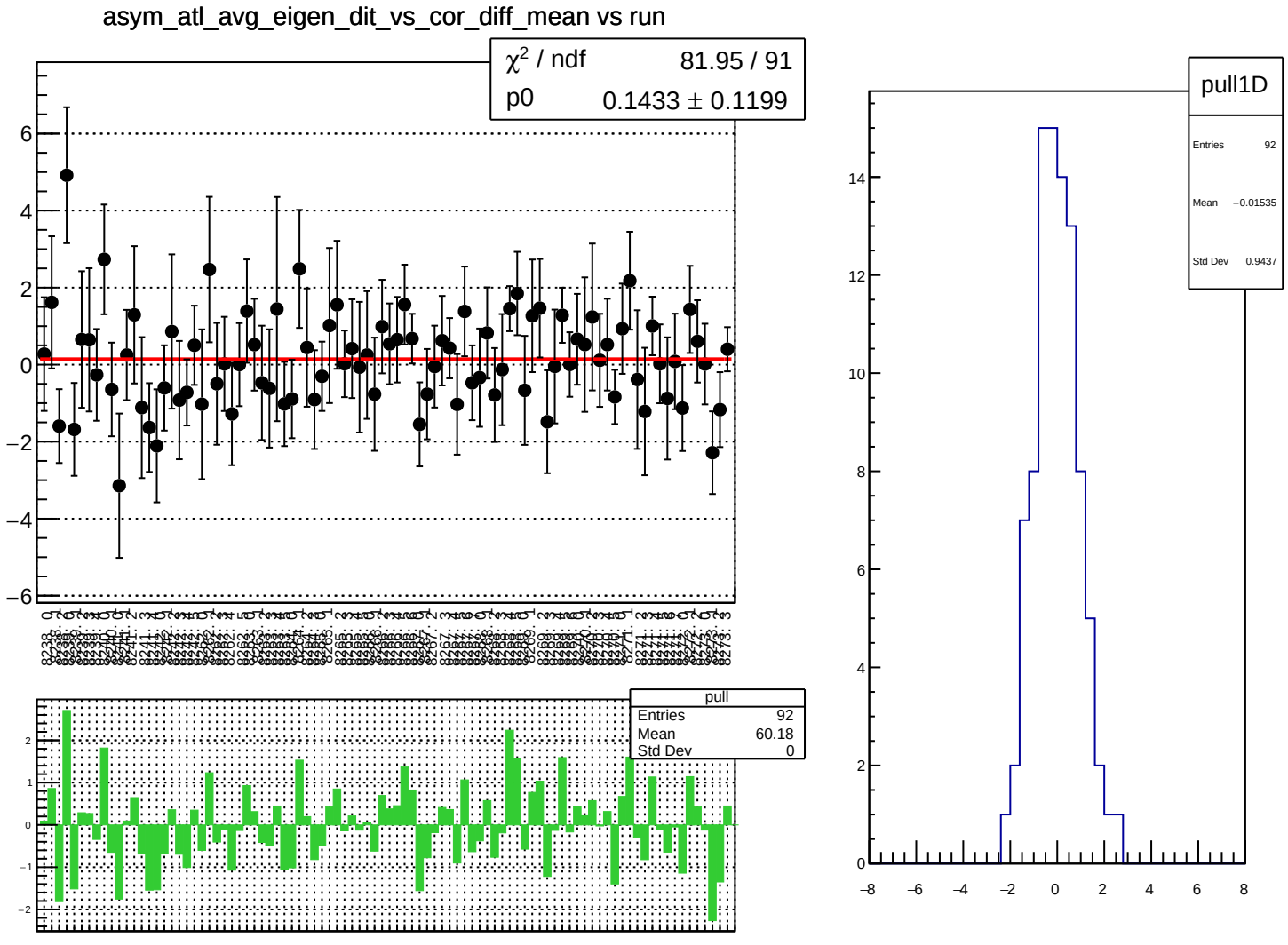

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.95 / 91
p0 0.1433 ± 0.1199
pull
Entries 92
Mean −60.12
Std Dev 0
pull1D
Entries 92
Mean −0.01535
Std Dev 0.9437

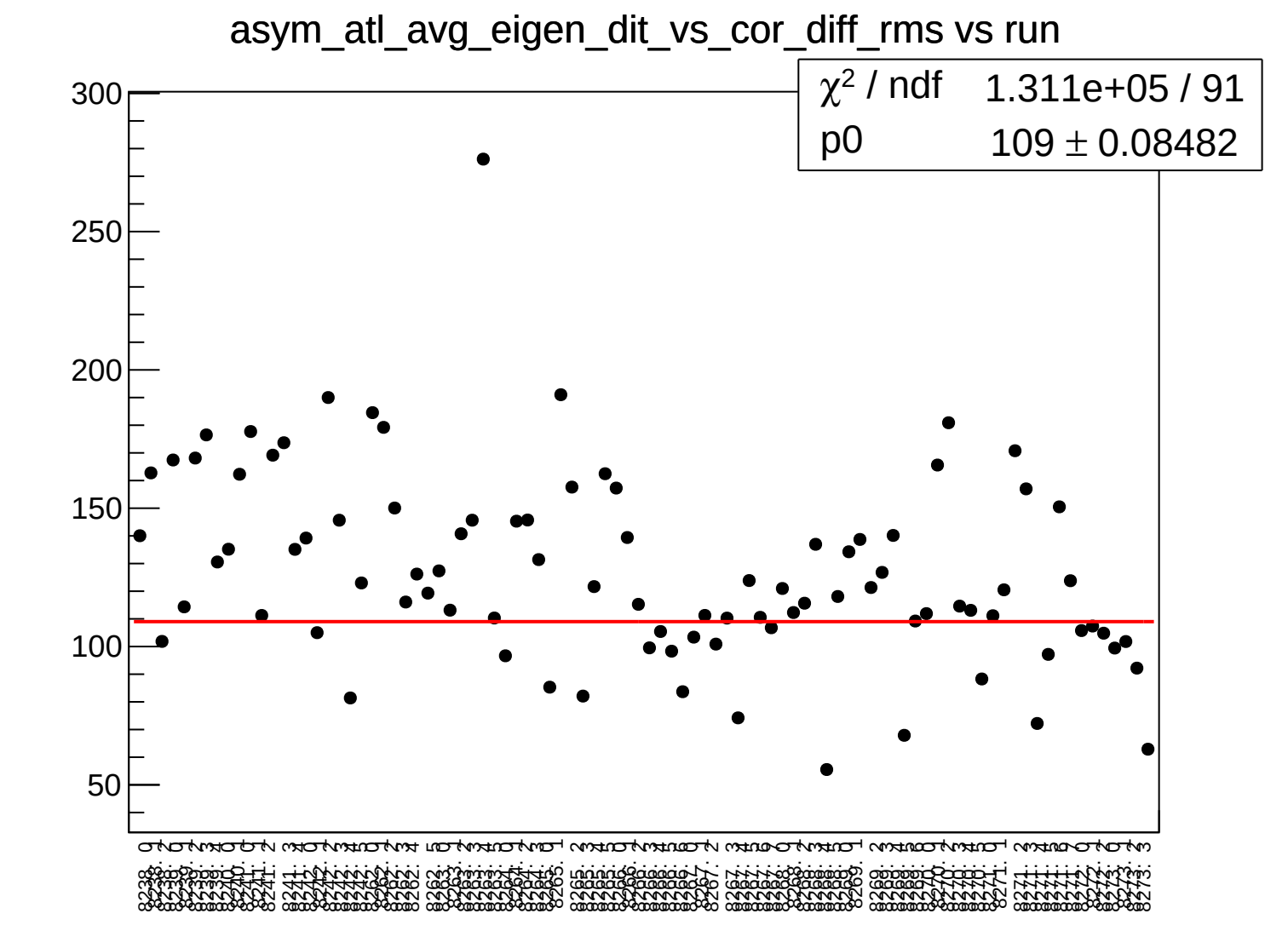

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.311e+05 / 91
p0 109 ± 0.08482
300
250
200
150
100
50

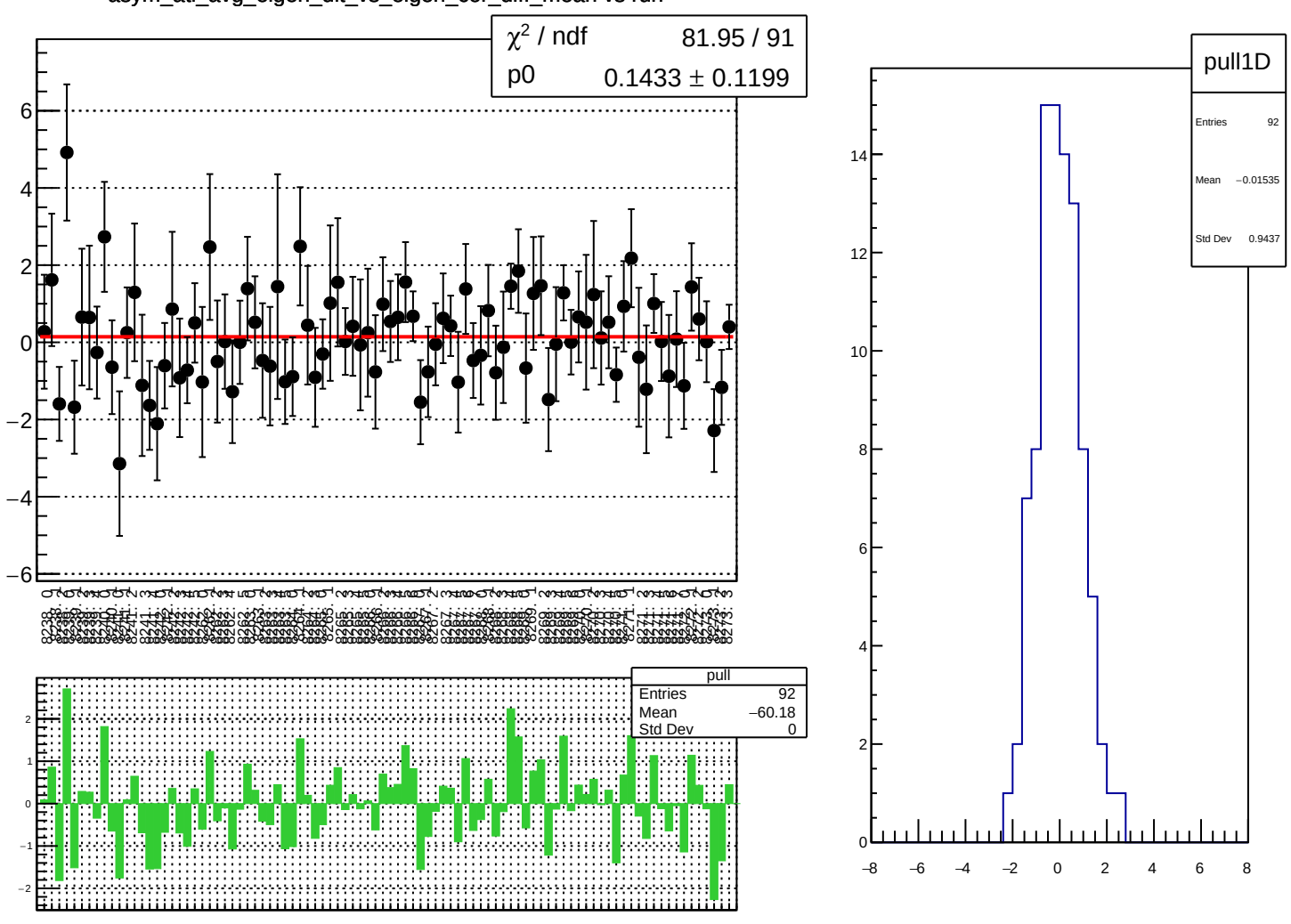

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.04 / 91
p0 −4.516e−06 ± 3.732e−06
pull
Entries 92
Mean 6.486
Std Dev 26.19

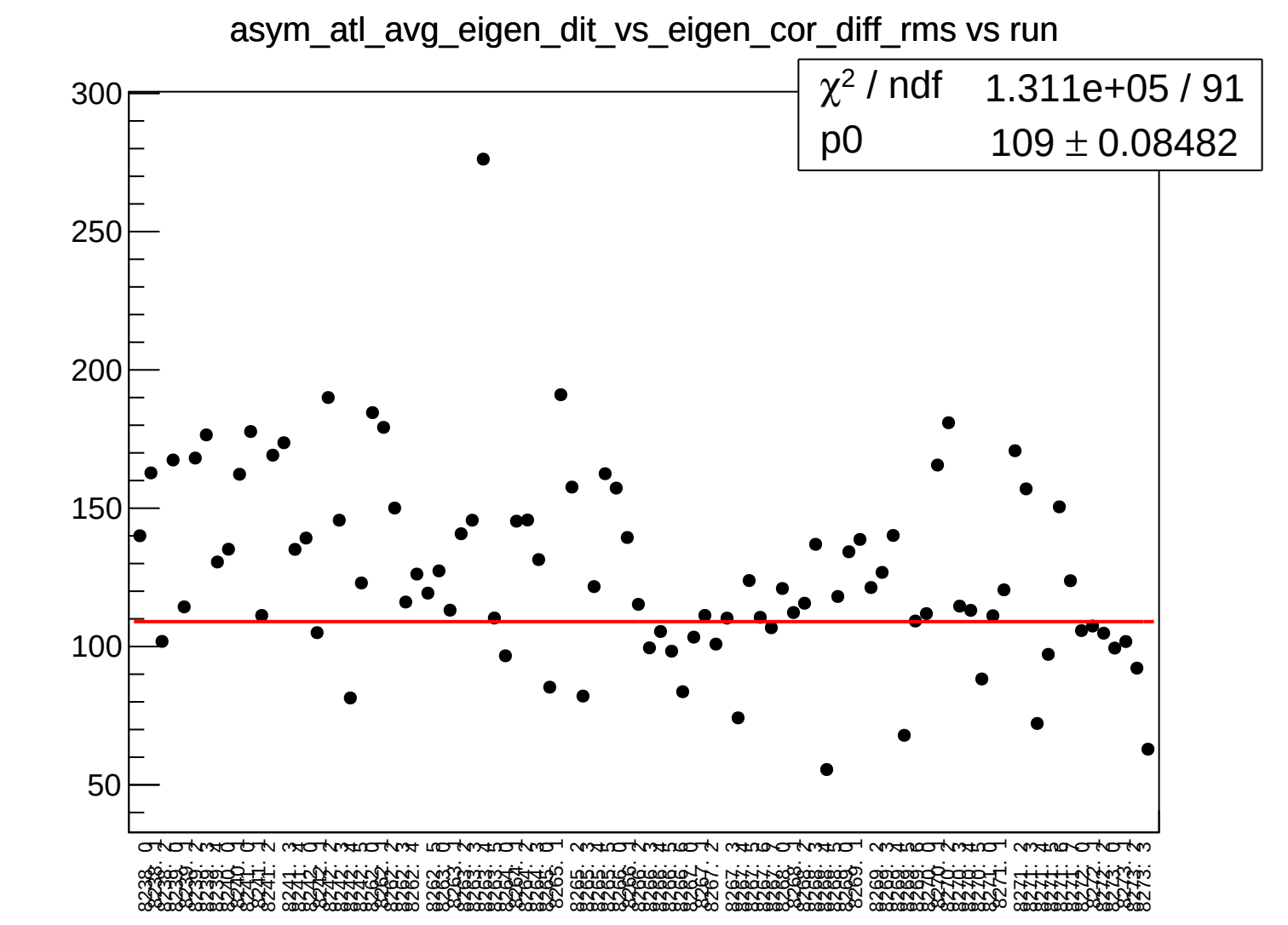

pull1D
Entries 92
Mean 0.0721
Std Dev 0.9922

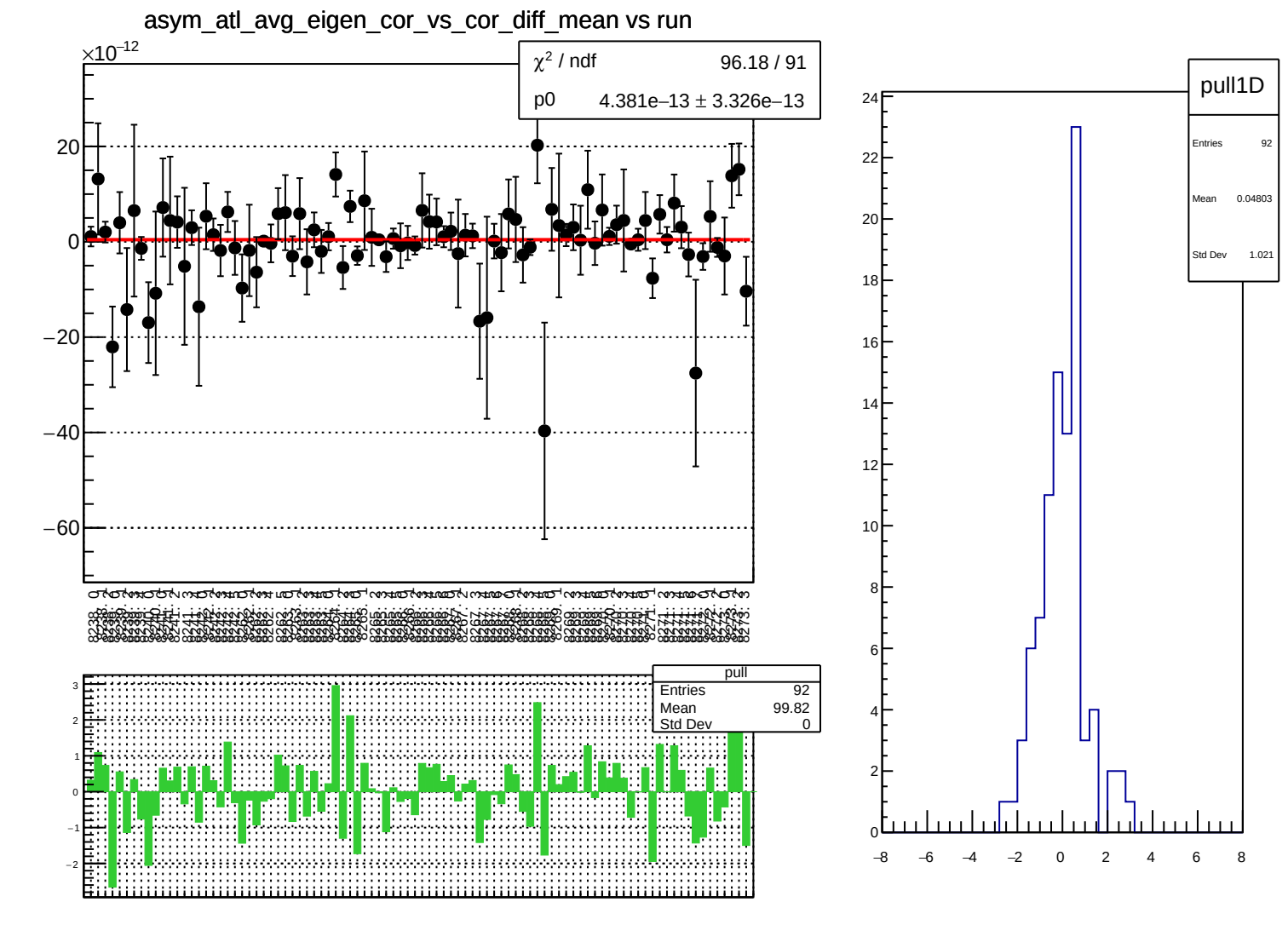

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.65e+05 / 91
p0 0.003251 ± 2.639e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

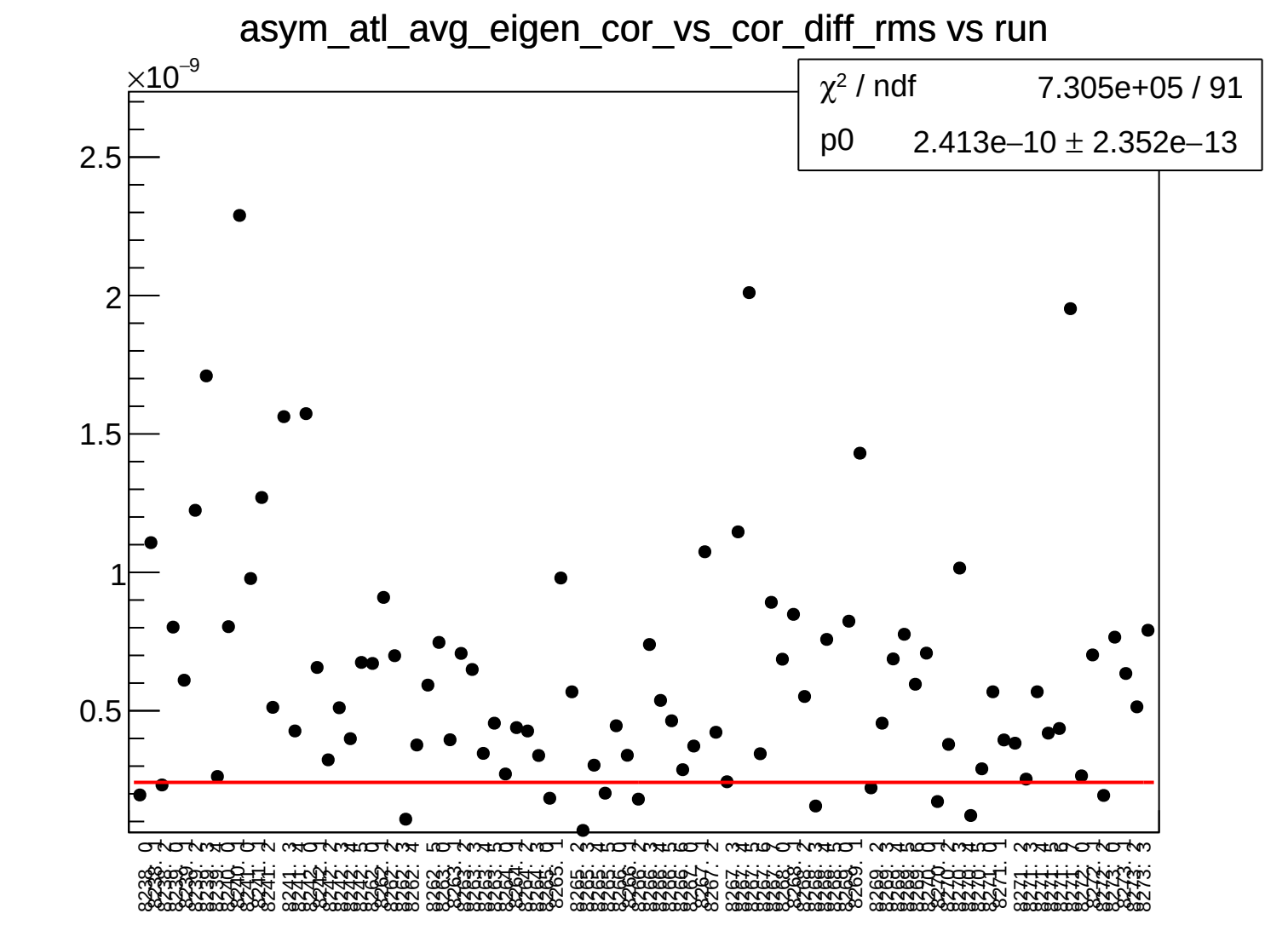

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.95 / 91
p0 0.1433 ± 0.1199
pull
Entries 92
Mean −60.18
Std Dev 0
pull1D
Entries 92
Mean −0.01535
Std Dev 0.9437

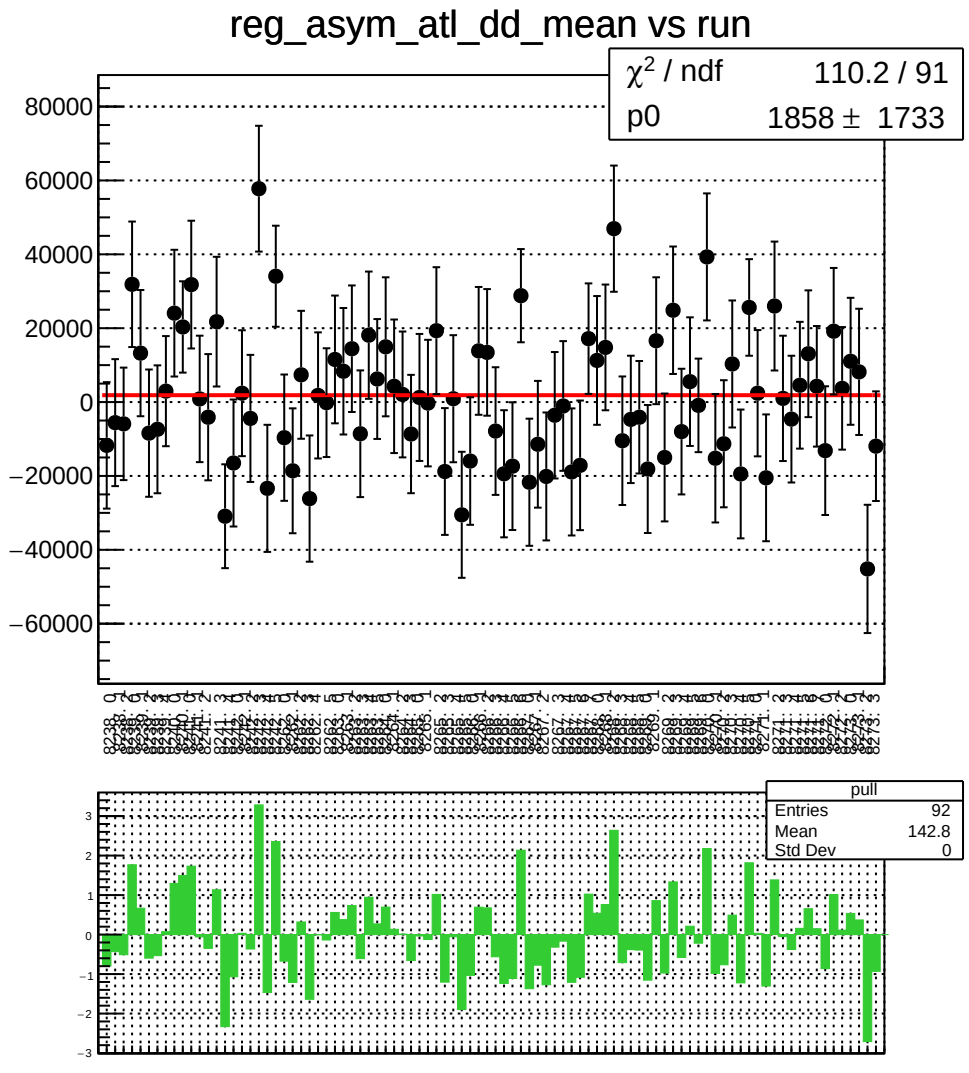

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.311e+05 / 91
p0 109 ± 0.08482
300
250
200
150
100
50

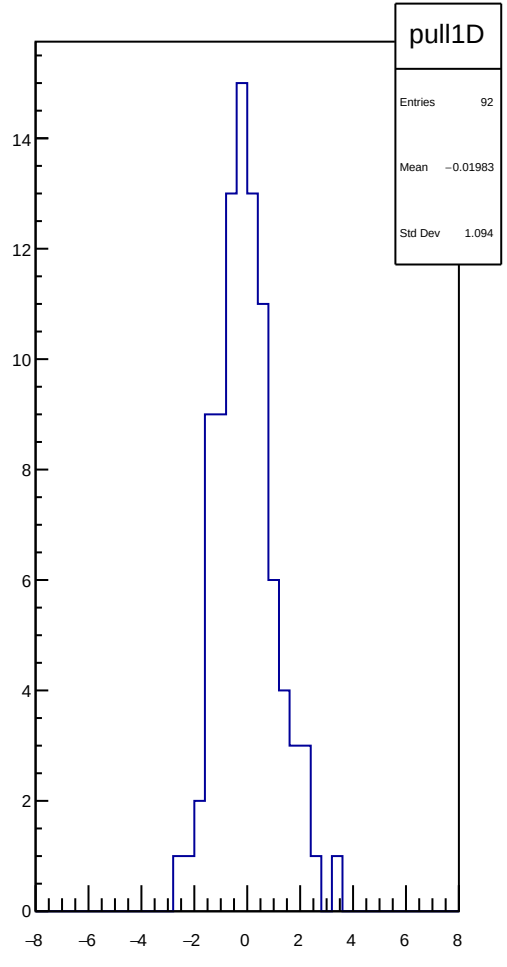

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.95 / 91
p0 0.1433 ± 0.1199
pull
Entries 92
Mean −60.18
Std Dev 0
pull1D
Entries 92
Mean −0.01535
Std Dev 0.9437

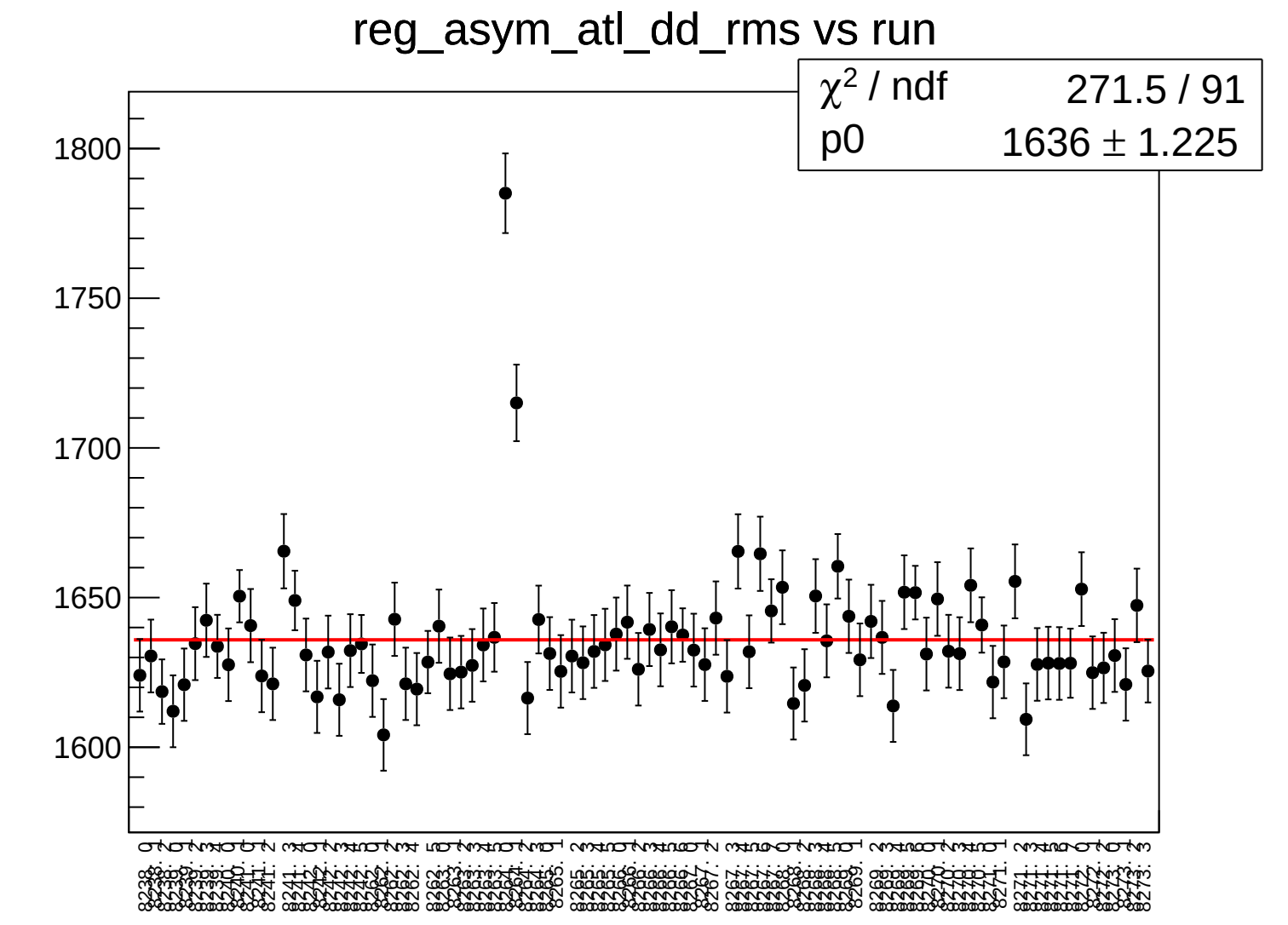

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.311e+05 / 91
p0 109 ± 0.08482
300
250
200
150
100
50

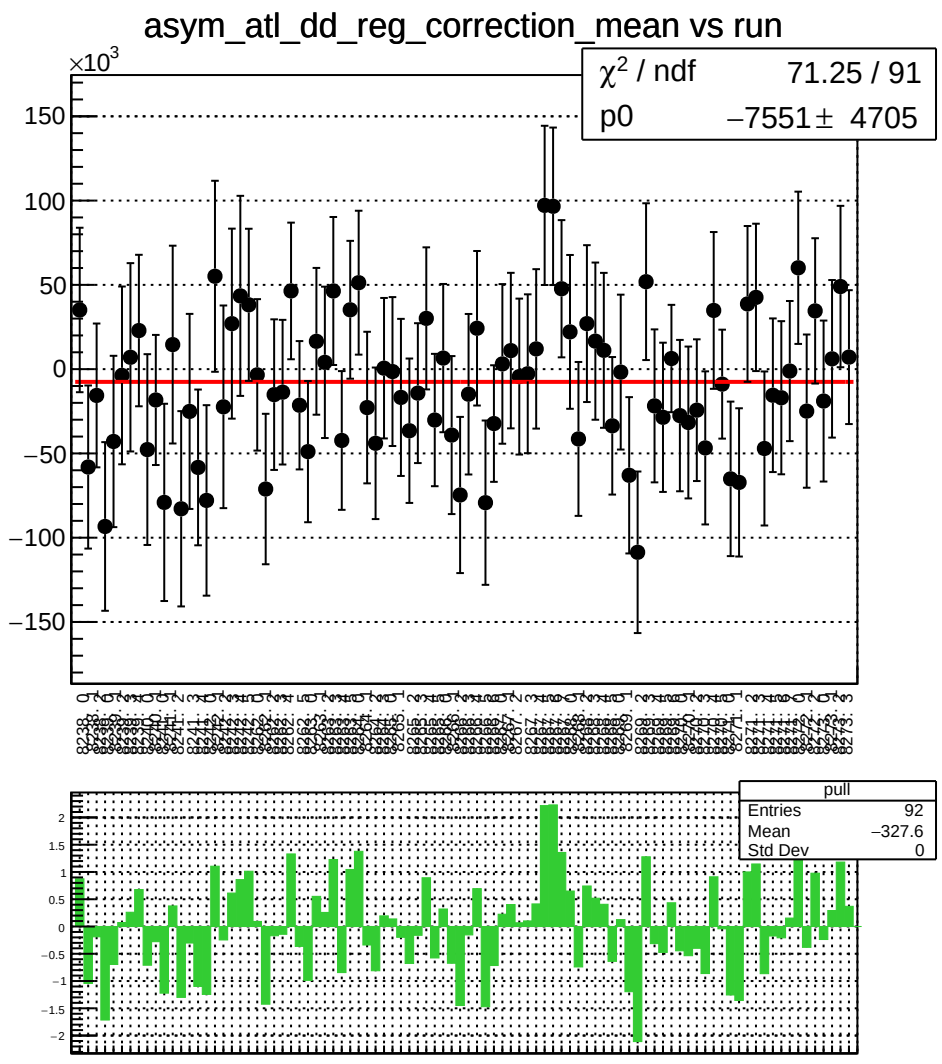

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.18 / 91
p0 4.381e−13 ± 3.326e−13
20
0
−20
−40
−60
pull
Entries 92
Mean 99.82
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.04803
Std Dev 1.021
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

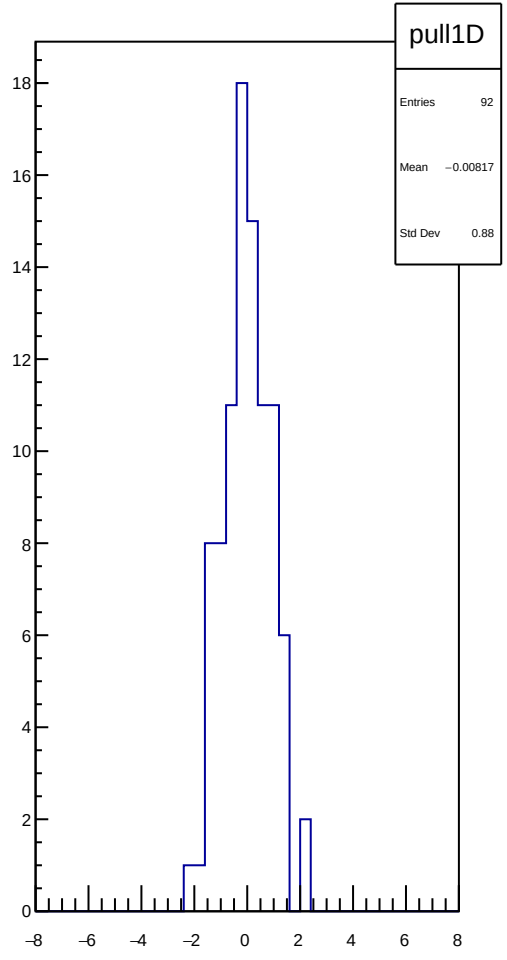

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.305e+05 / 91
p0 2.413e−10 ± 2.352e−13
2.5
2
1.5
1
0.5

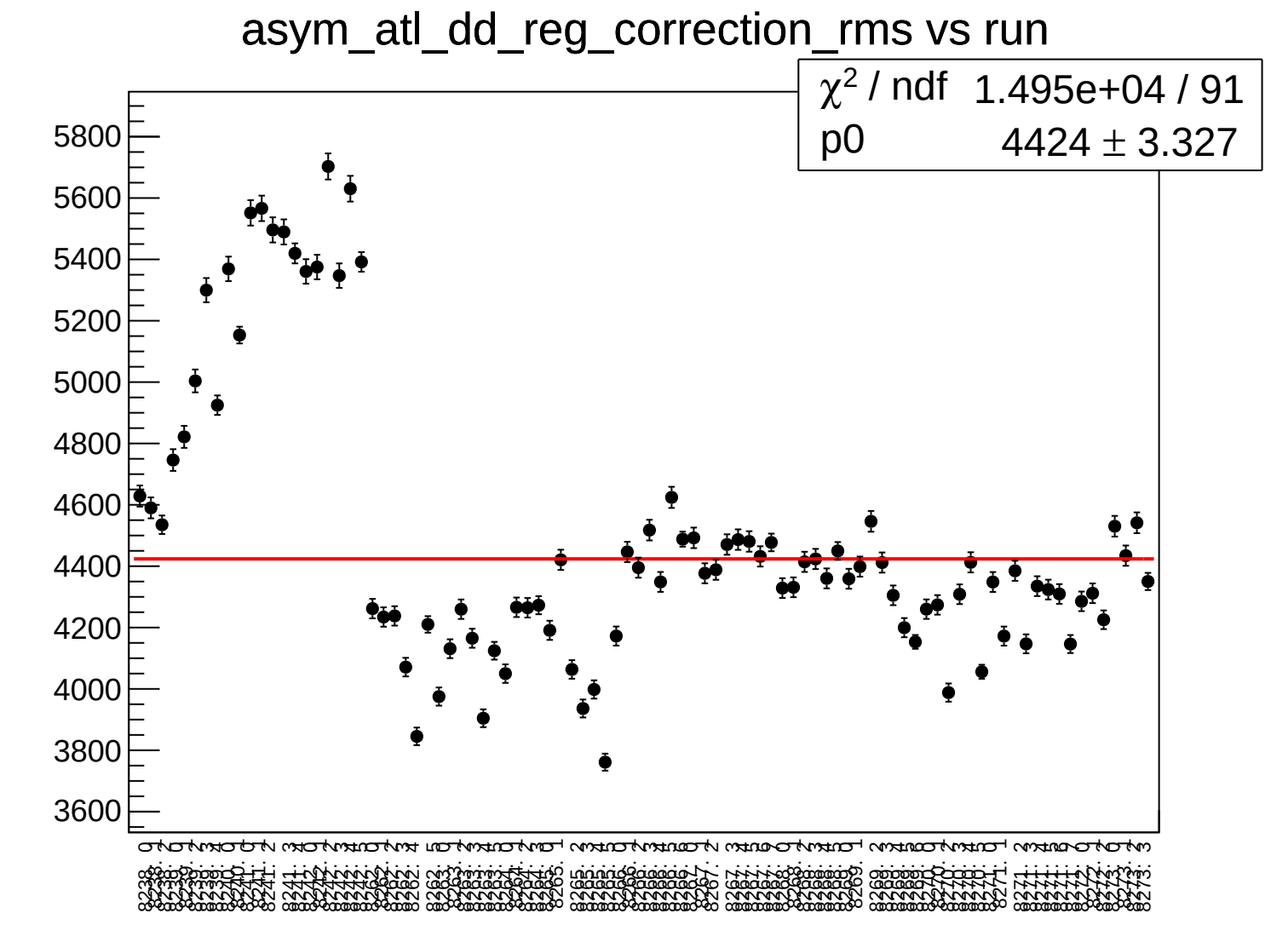

reg_asym_atl_dd_mean vs run
χ² / ndf 110.2 / 91
p0 1858 ± 1733
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 142.8
Std Dev 0
3
2
1
0
−1
−2
−3

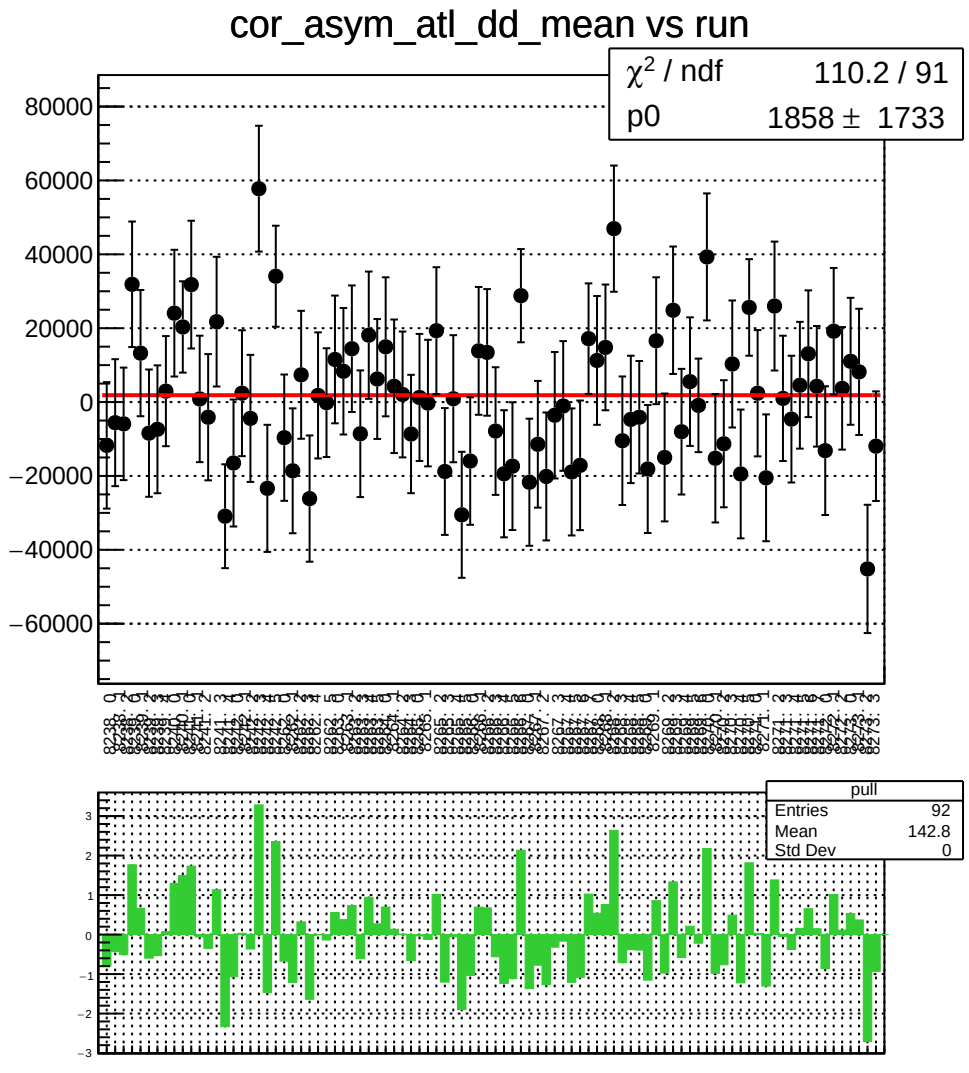

pull1D
Entries 92
Mean −0.01983
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

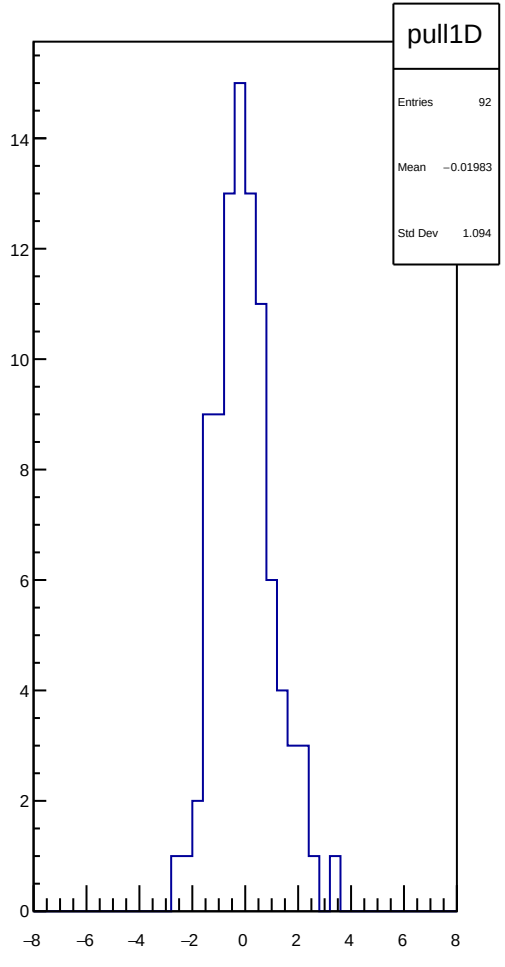

reg_asym_atl_dd_rms vs run
χ² / ndf 271.5 / 91
p0 1636 ± 1.225
1800
1750
1700
1650
1600

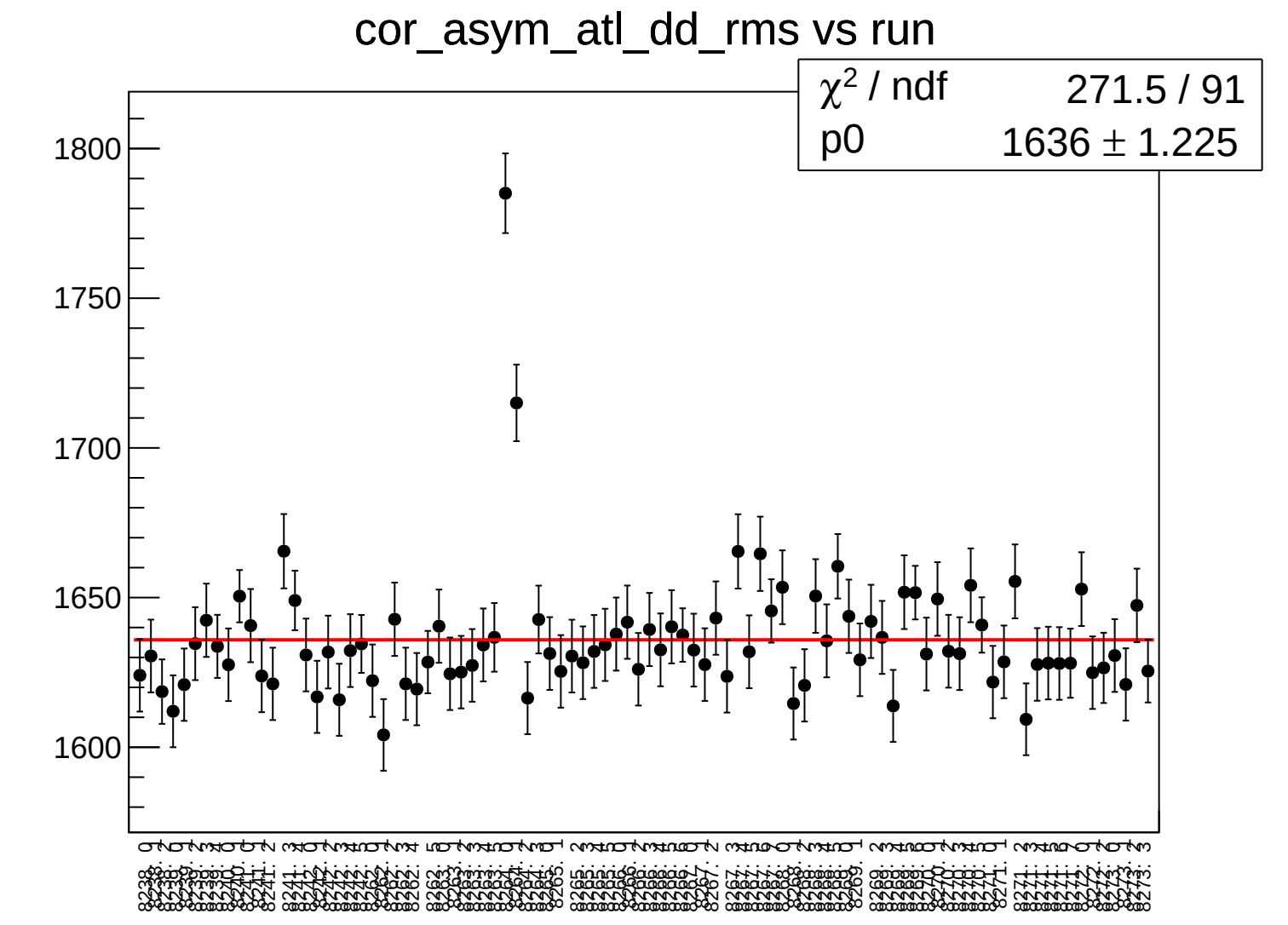

asym_atl_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 71.25 / 91
p0 −7551 ± 4705
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −327.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

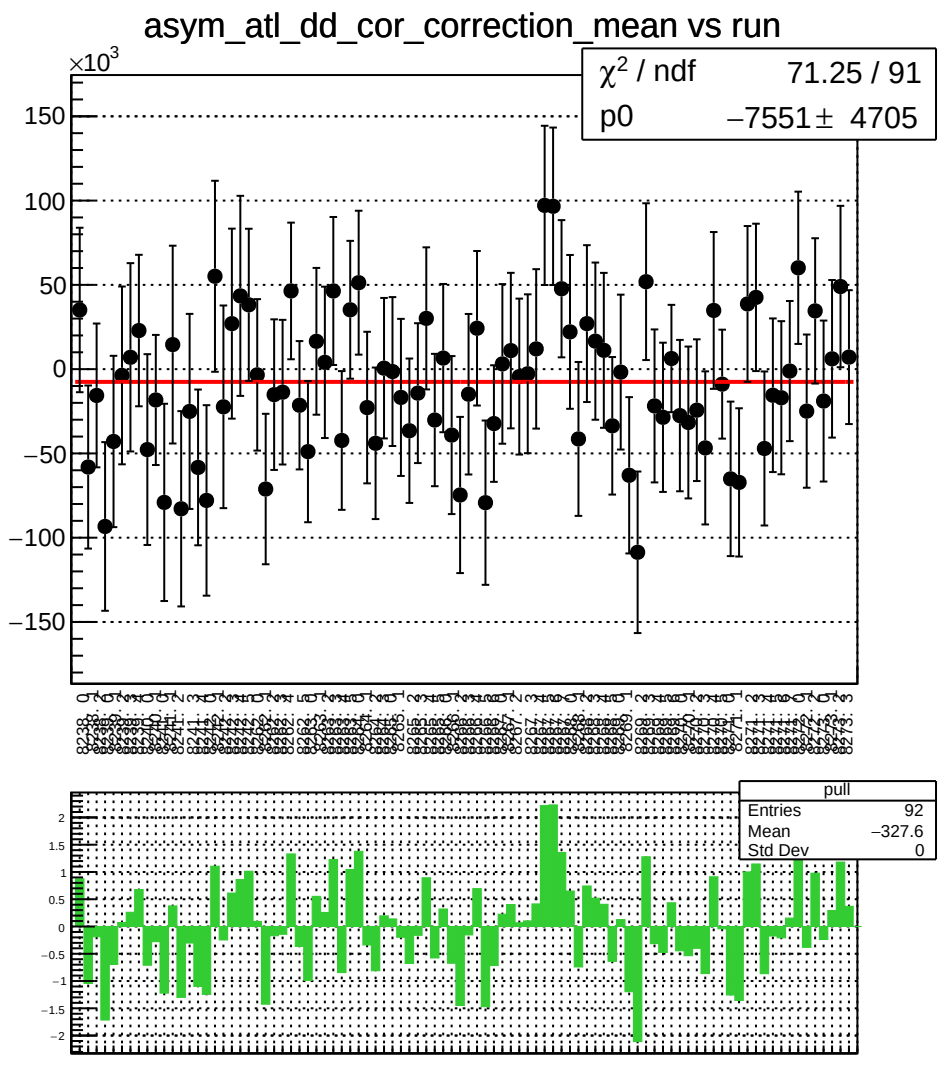

pull1D
Entries 92
Mean −0.00817
Std Dev 0.88
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

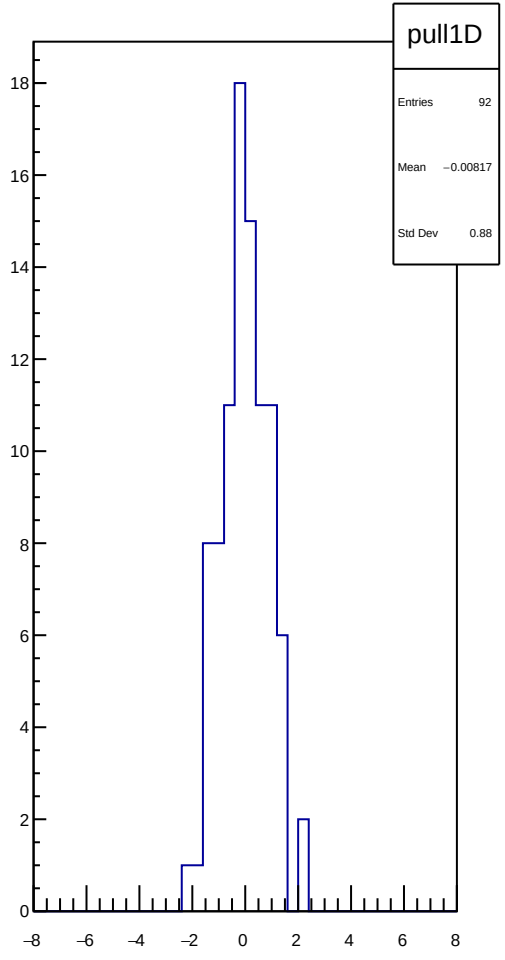

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 1.495e+04 / 91
p0 4424 ± 3.327
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

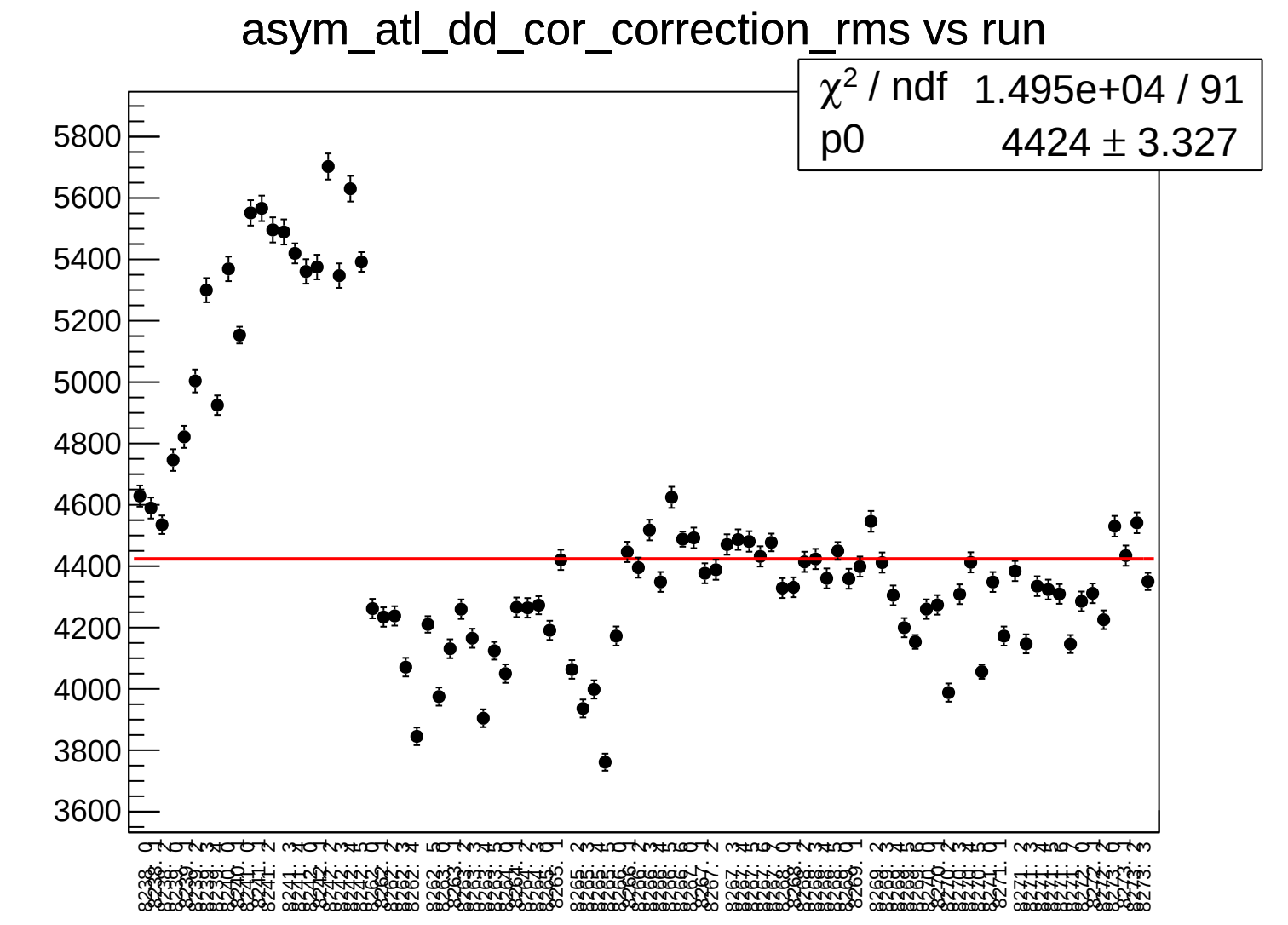

cor_asym_atl_dd_mean vs run
χ² / ndf 110.2 / 91
p0 1858 ± 1733
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 142.8
Std Dev 0
3
2
1
0
−1
−2
−3

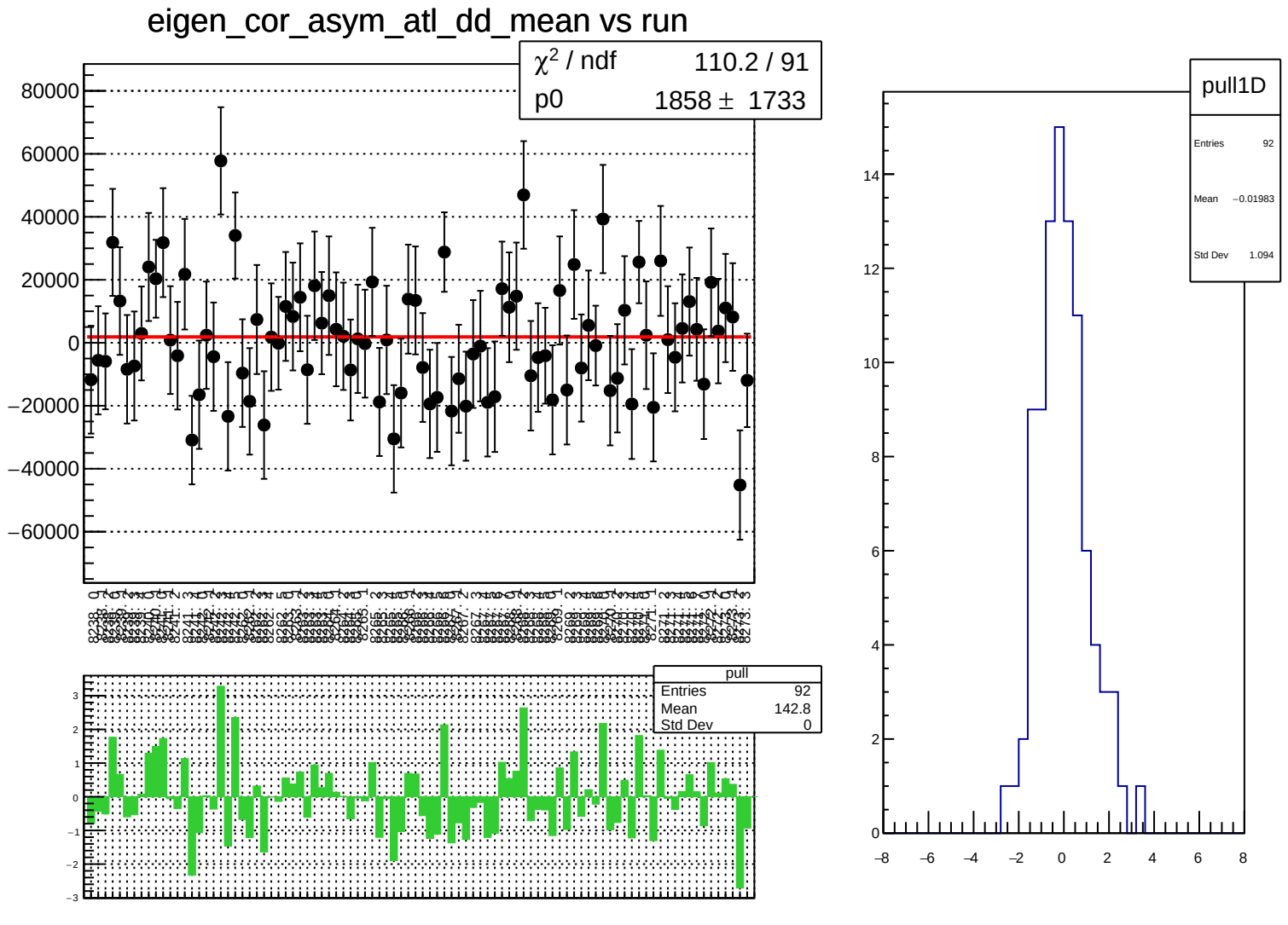

pull1D
Entries 92
Mean −0.01983
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

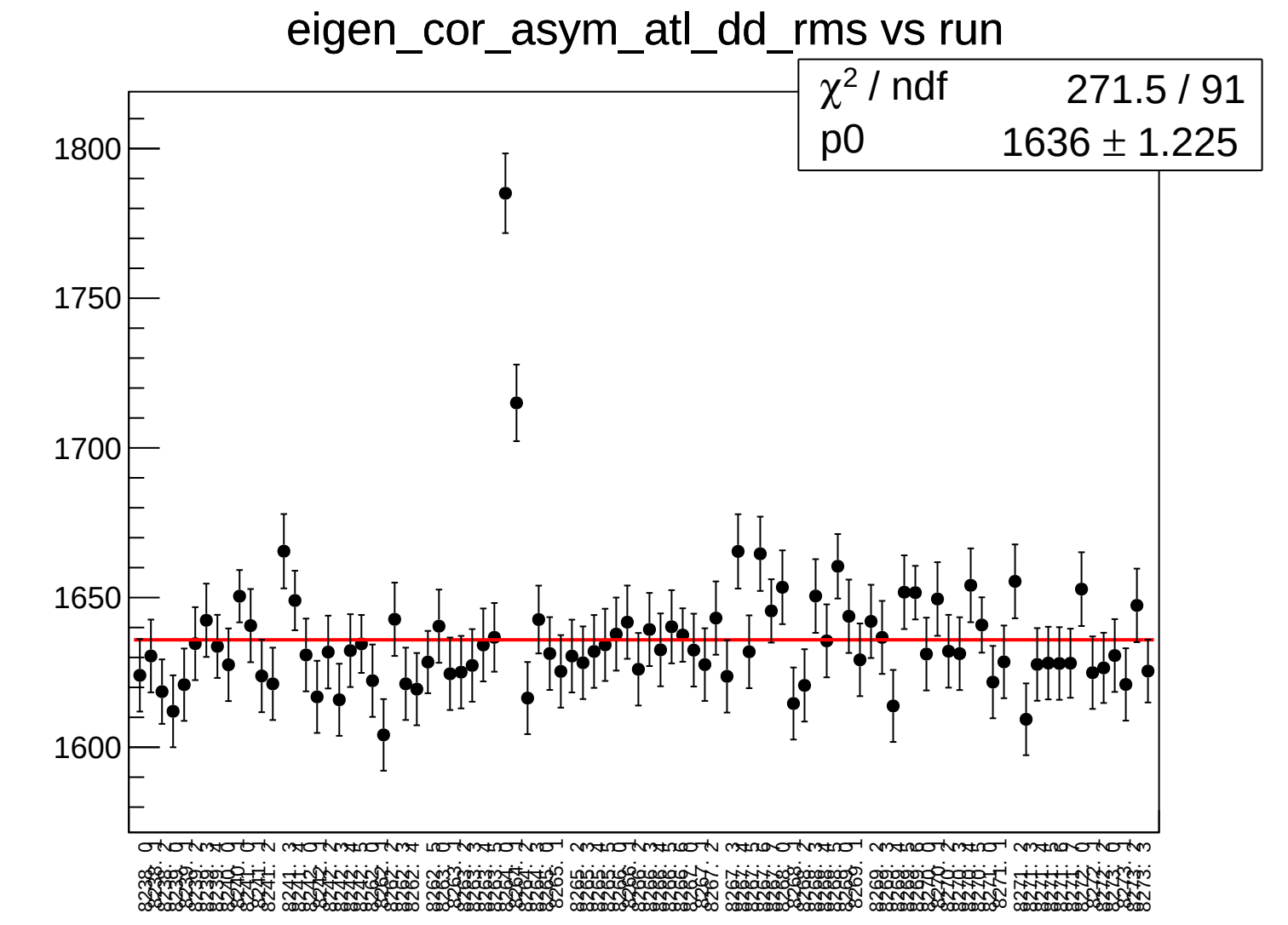

cor_asym_atl_dd_rms vs run
$\chi^2$ / ndf 271.5 / 91
p0 1636 ± 1.225
1800
1750
1700
1650
1600

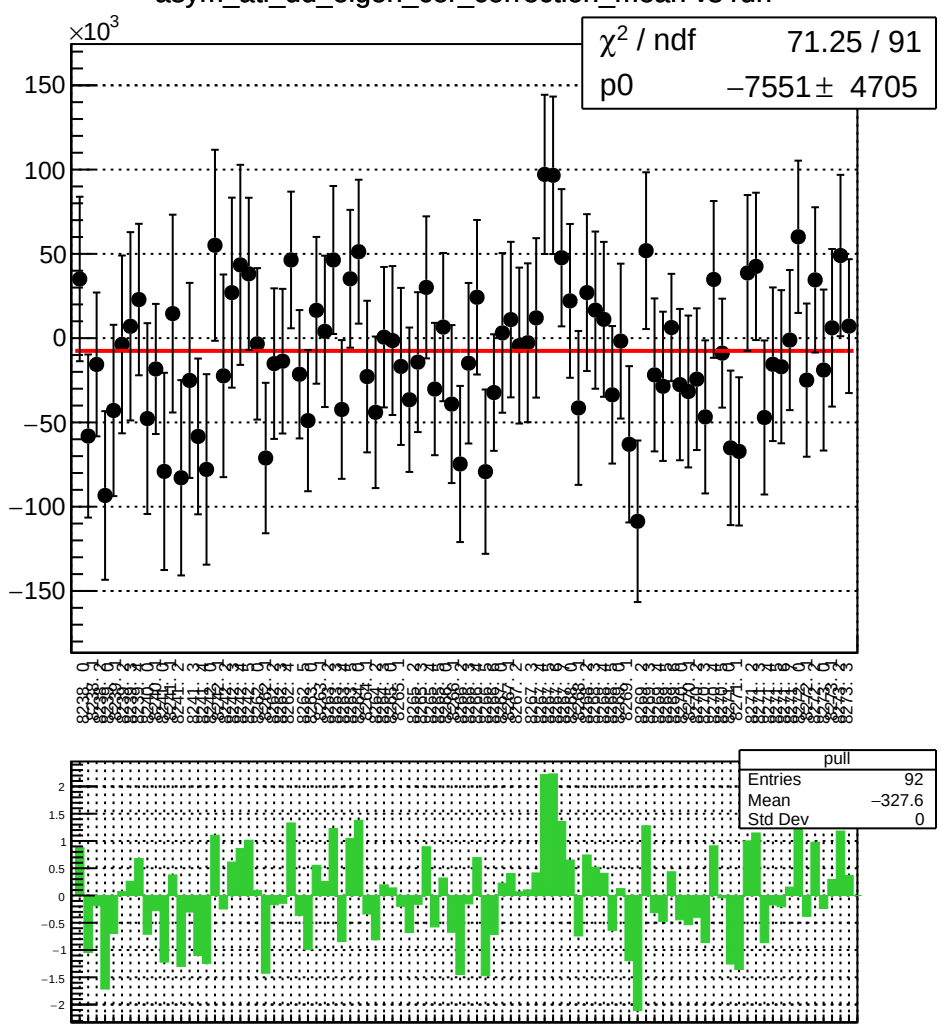

asym_atl_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 71.25 / 91
p0 −7551 ± 4705
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −327.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

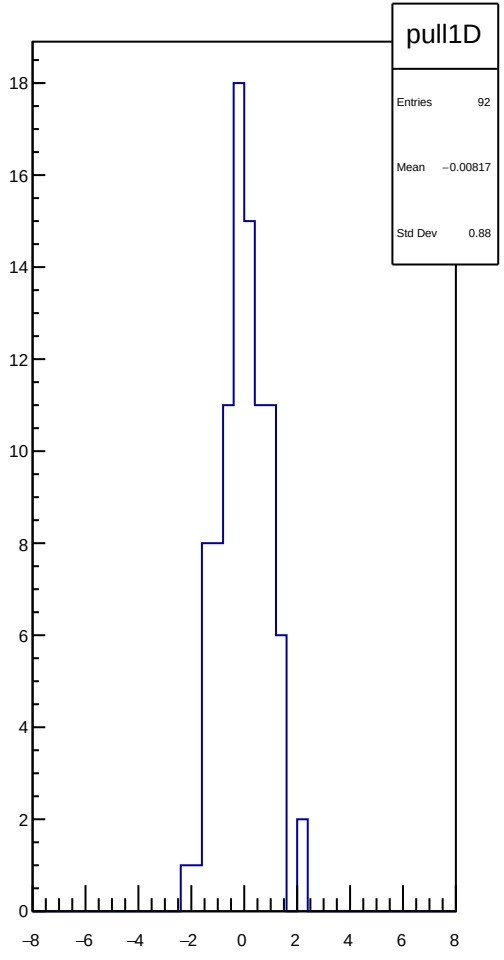

pull1D
Entries 92
Mean −0.00817
Std Dev 0.88
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

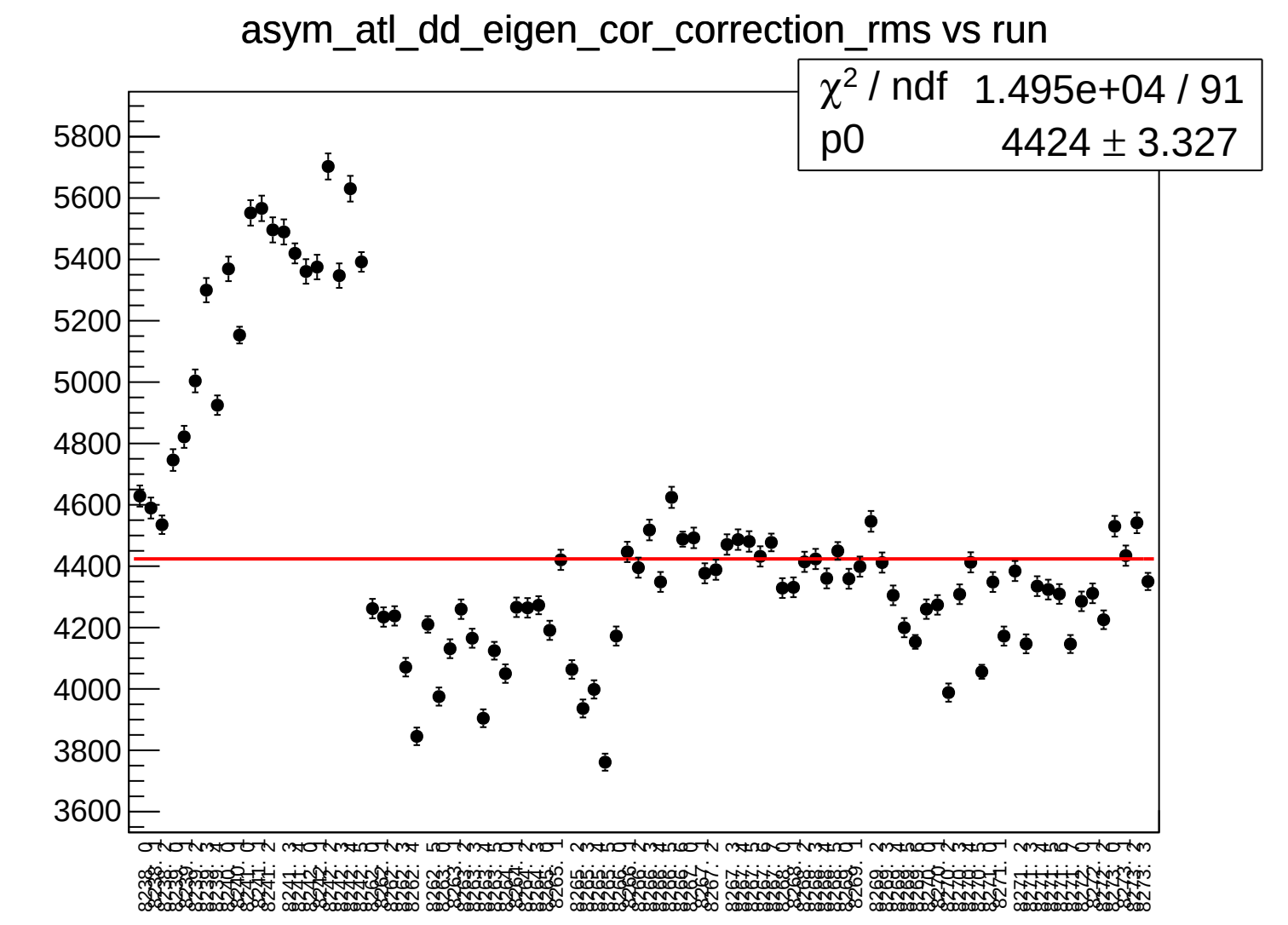

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 1.495e+04 / 91
p0 4424 ± 3.327
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

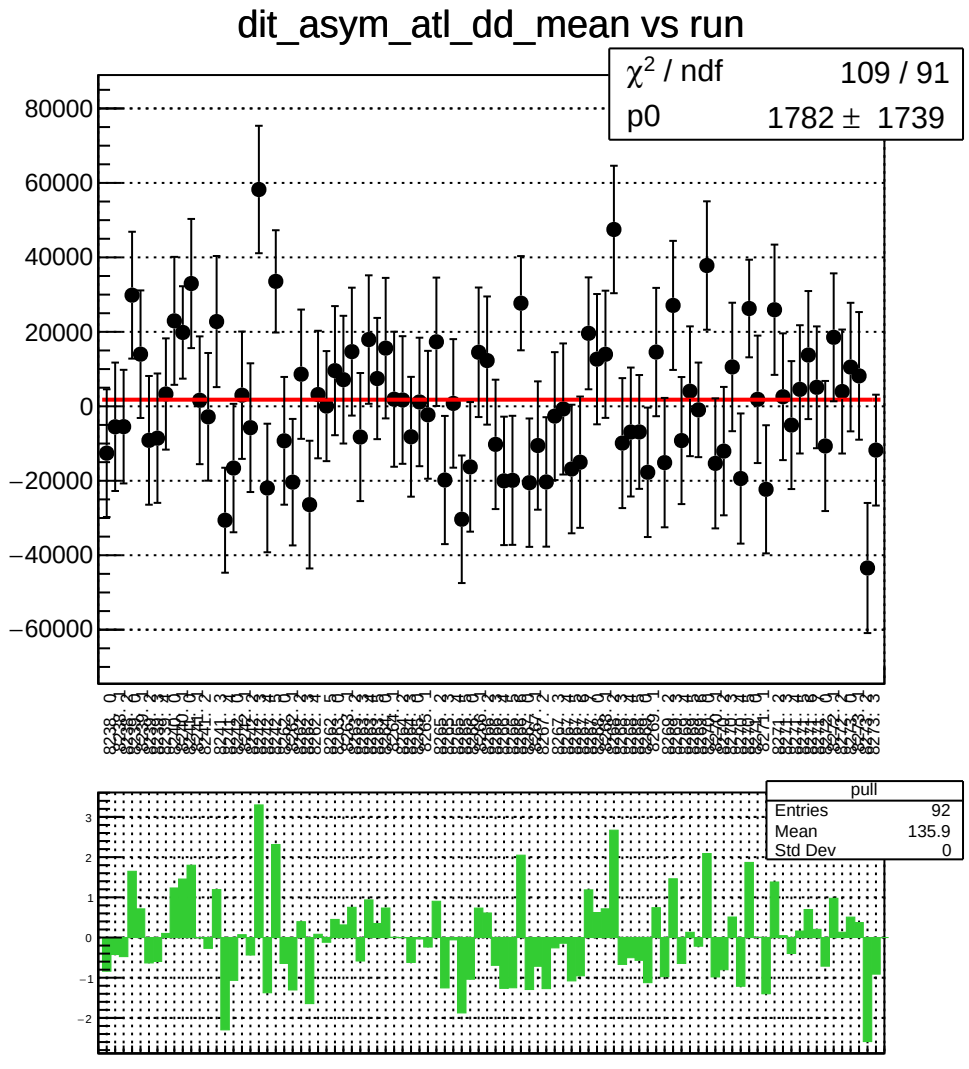

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 110.2 / 91
p0 1858 ± 1733
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 142.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.01983
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

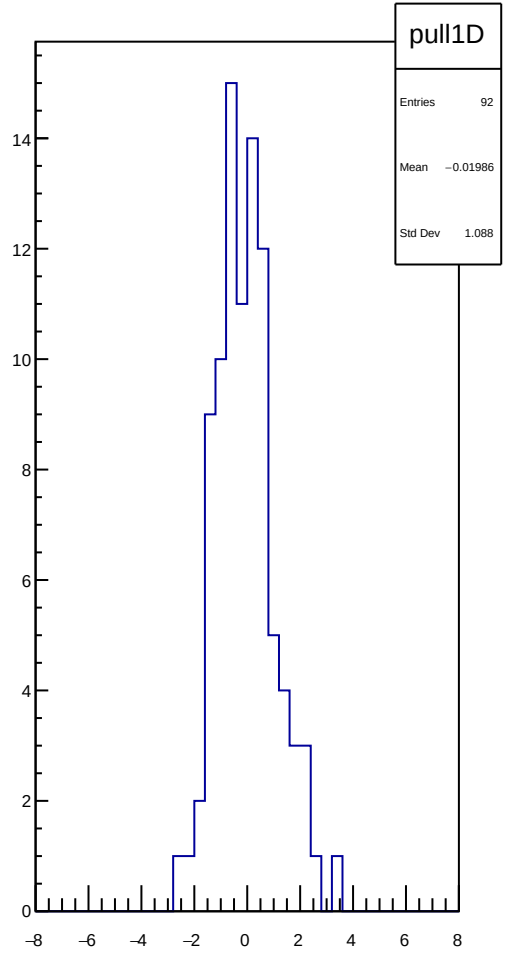

eigen_cor_asym_atl_dd_rms vs run
$\chi^2$ / ndf 271.5 / 91
p0 1636 ± 1.225
1800
1750
1700
1650
1600

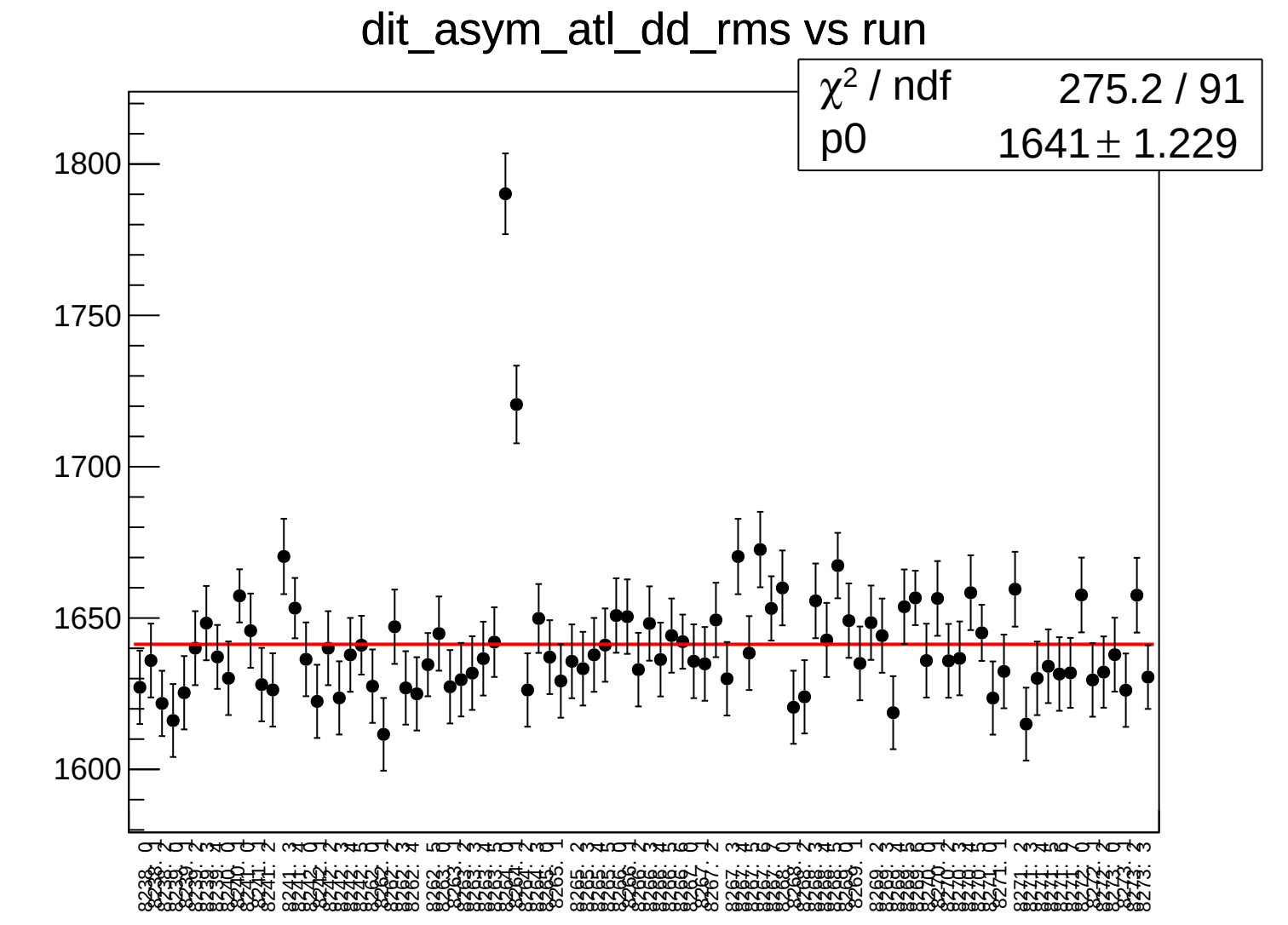

asym_atl_dd_eigen_cor_correction_mean vs run
χ² / ndf 71.25 / 91
p0 −7551 ± 4705
×10³
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −327.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

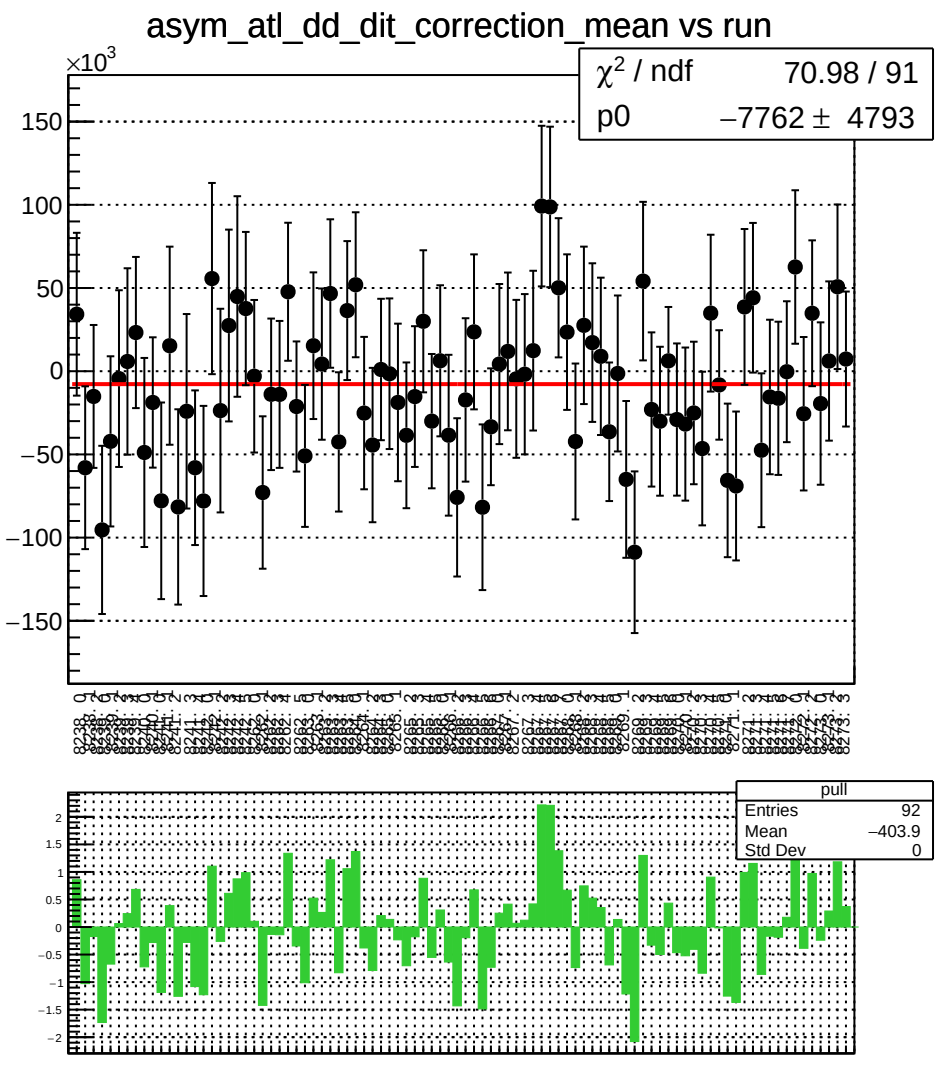

pull1D
Entries 92
Mean −0.00817
Std Dev 0.88
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

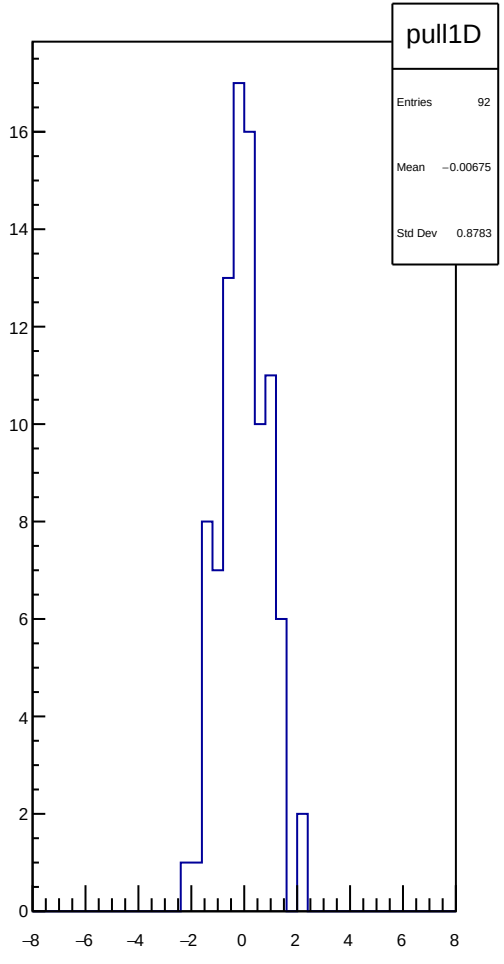

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.495e+04 / 91
p0 4424 ± 3.327
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600


dit_asym_atl_dd_mean vs run
χ² / ndf 109 / 91
p0 1782 ± 1739
pull
Entries 92
Mean 135.9
Std Dev 0

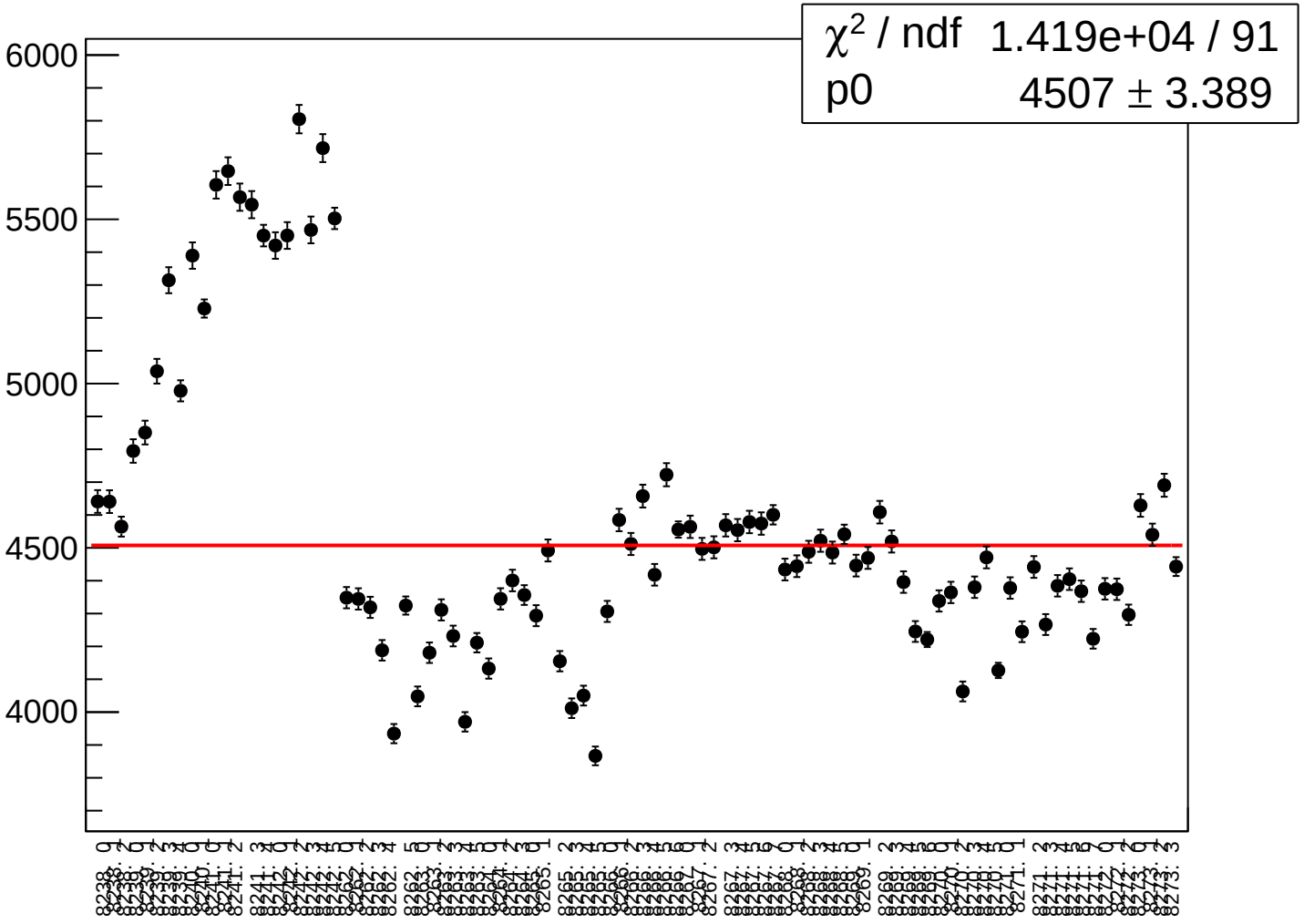

pull1D
Entries 92
Mean −0.01986
Std Dev 1.088

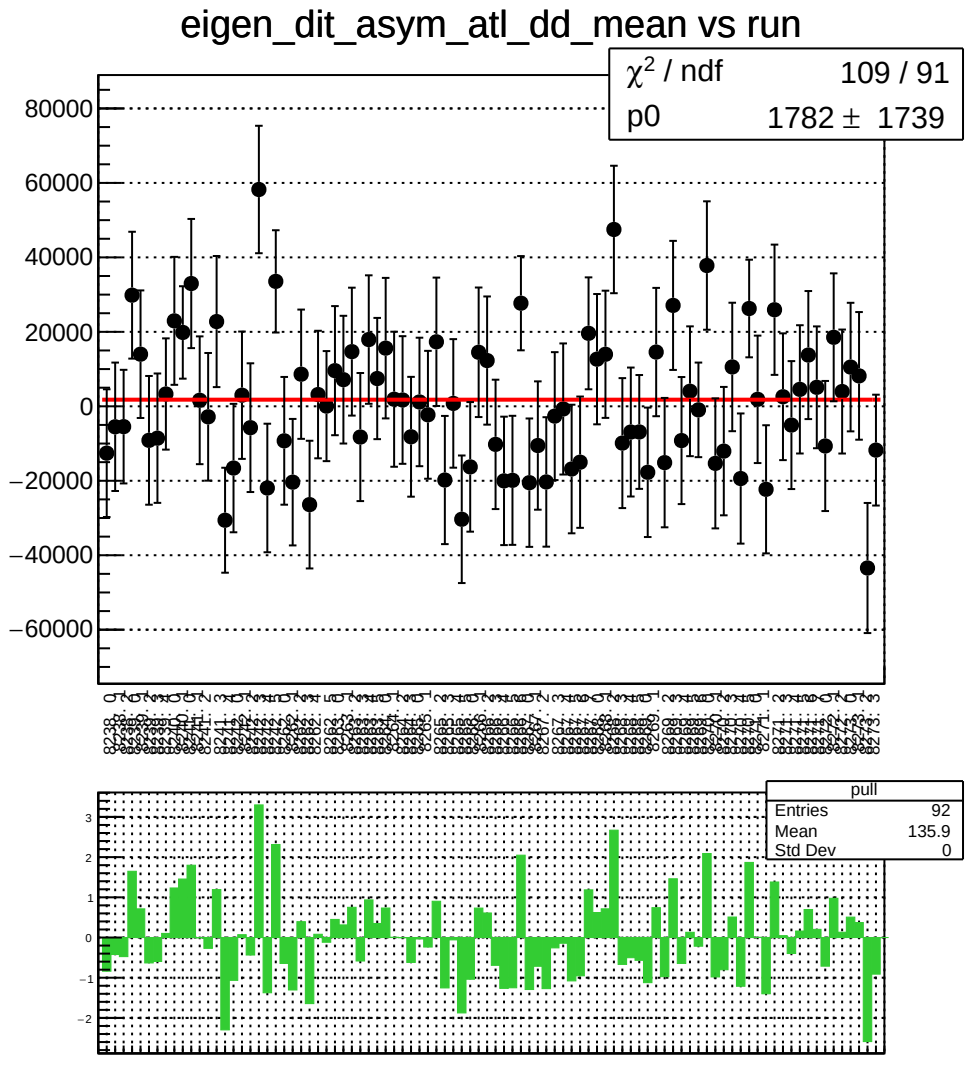

dit_asym_atl_dd_rms vs run
χ² / ndf 275.2 / 91
p0 1641 ± 1.229
1800
1750
1700
1650
1600

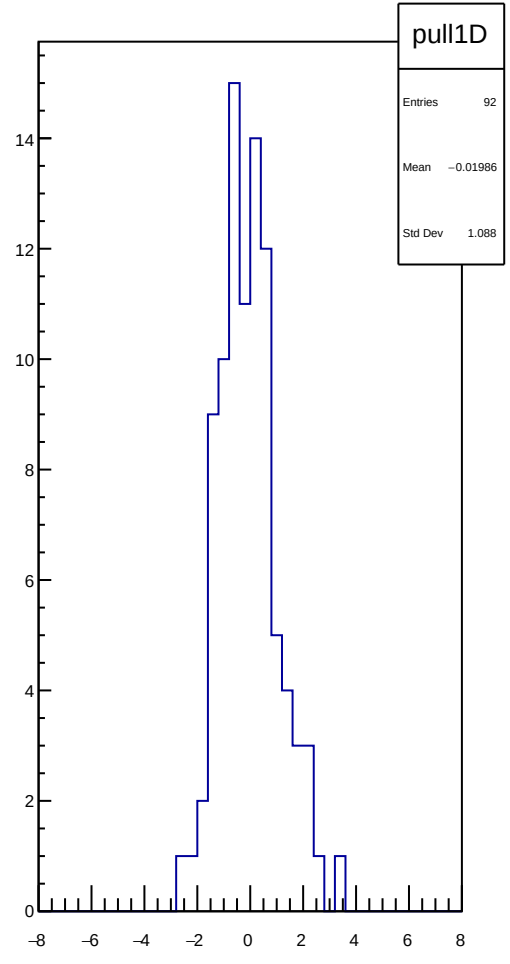

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 70.98 / 91
p0 −7762 ± 4793
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −403.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

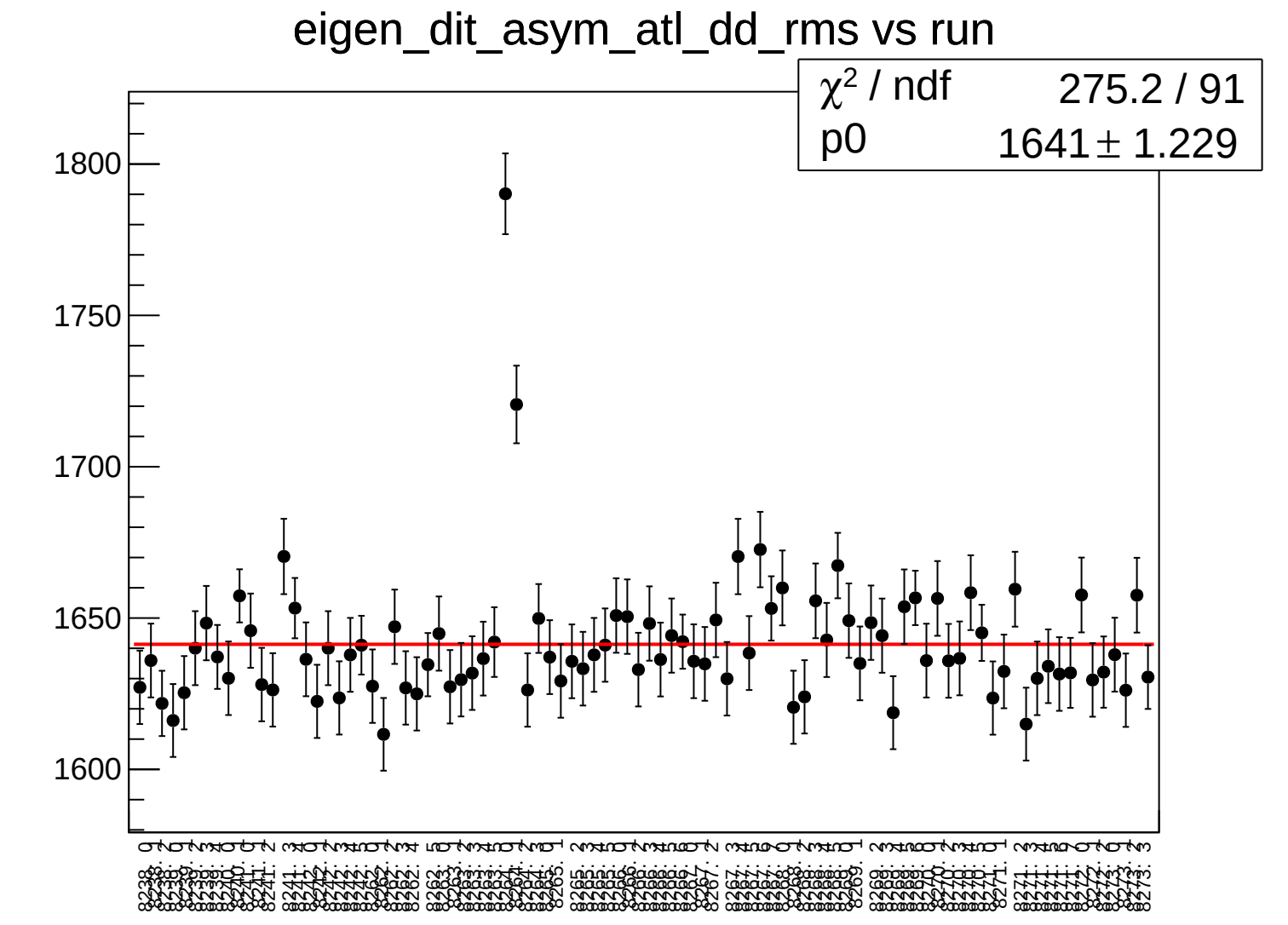

pull1D
Entries 92
Mean −0.00675
Std Dev 0.8783
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

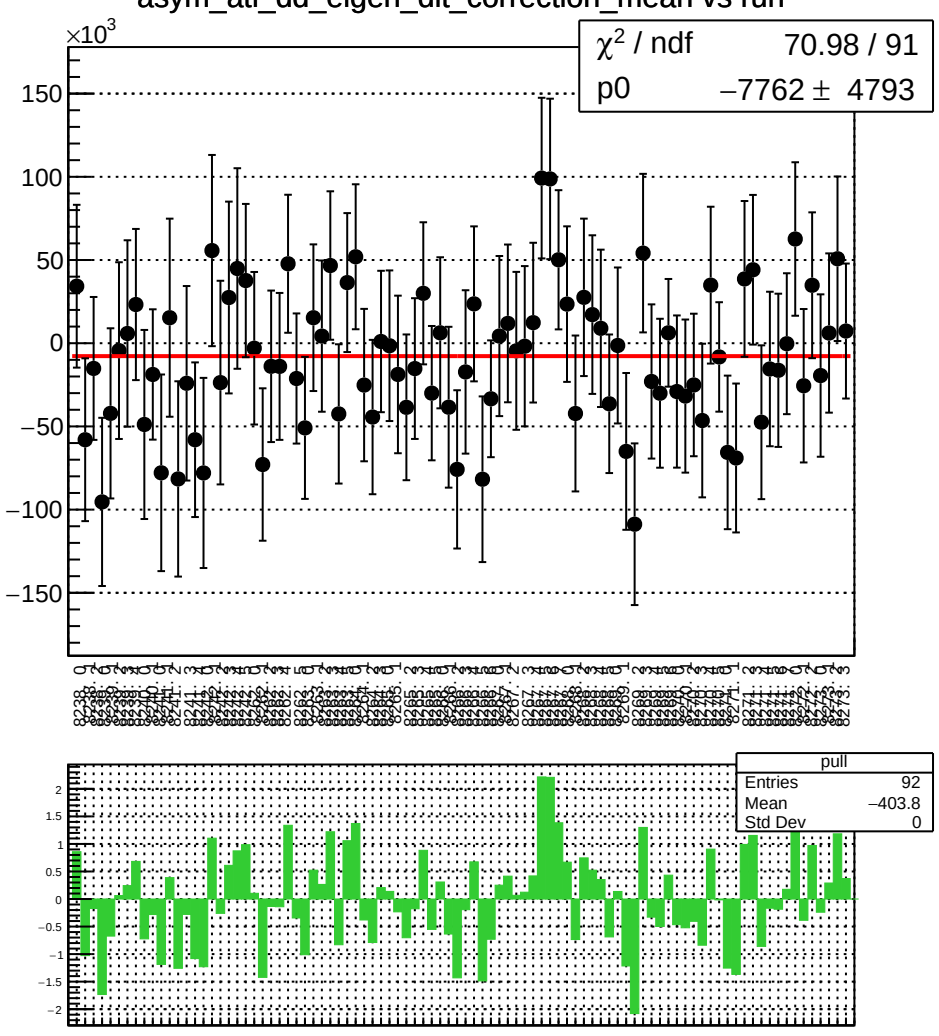
# asym_atl_dd_dit_correction_rms vs run

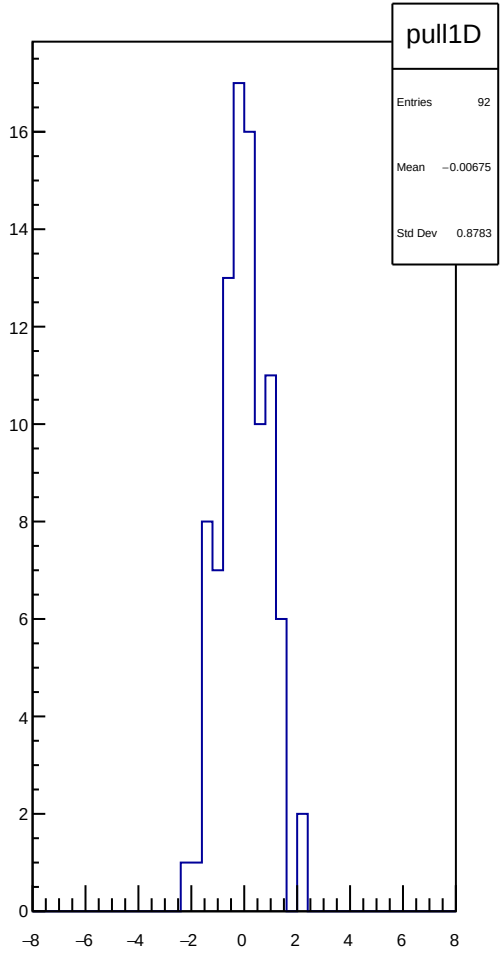


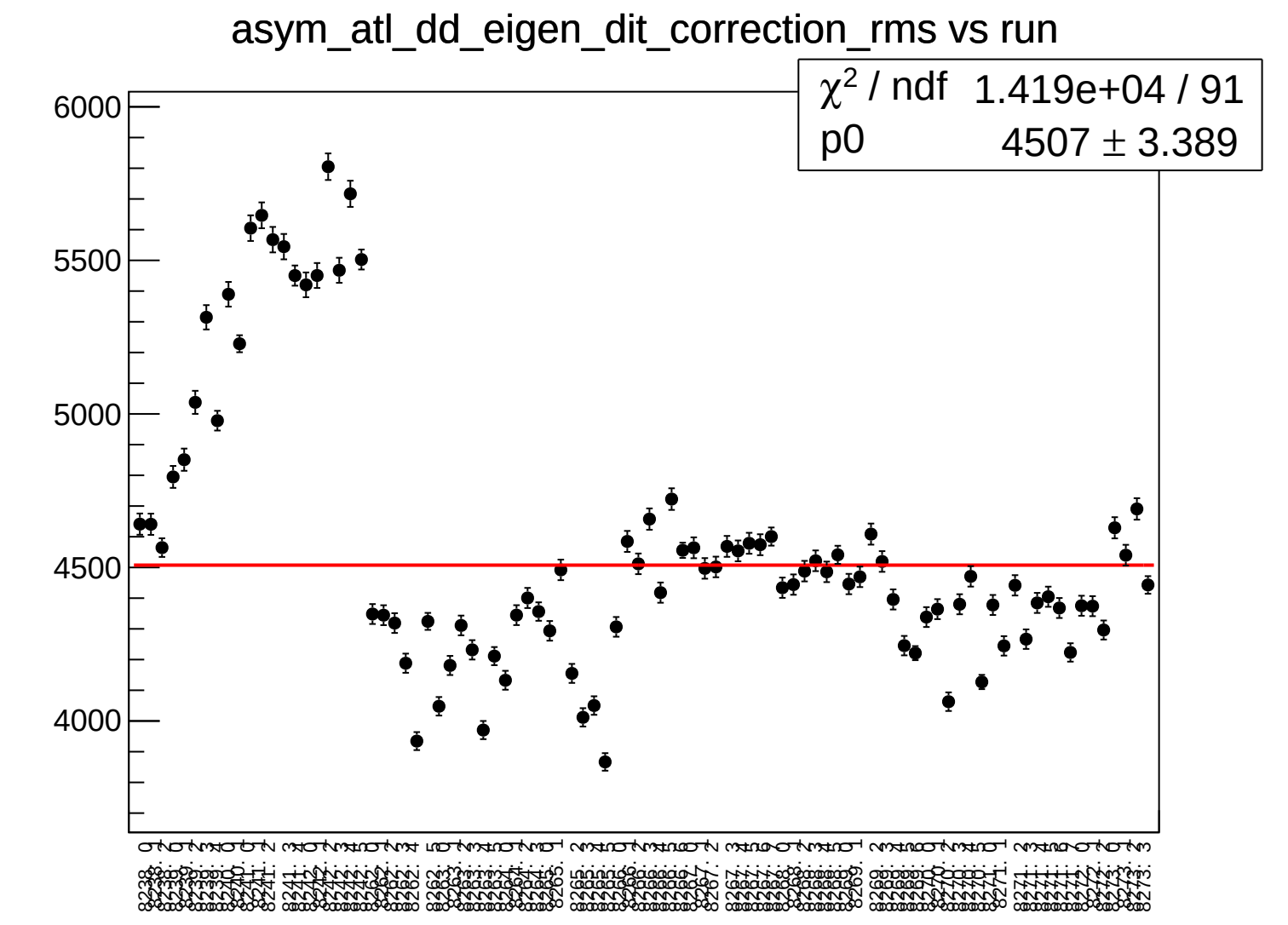

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 109 / 91
p0 1782 ± 1739
pull
Entries 92
Mean 135.9
Std Dev 0

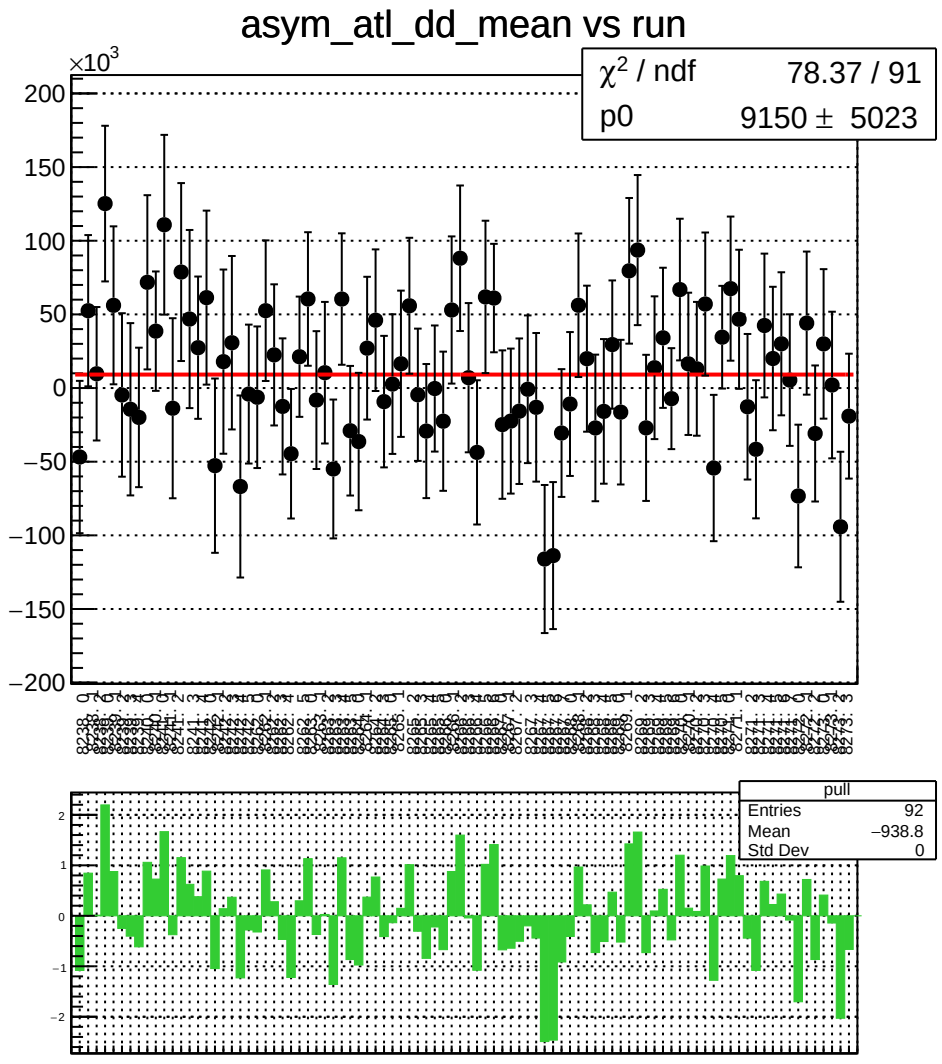

pull1D
Entries 92
Mean −0.01986
Std Dev 1.088

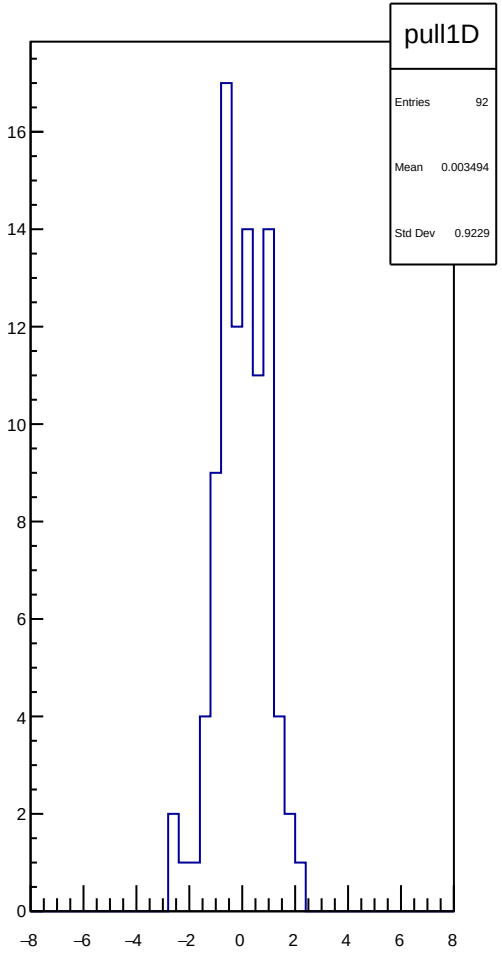

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 275.2 / 91
p0 1641 ± 1.229
1800
1750
1700
1650
1600

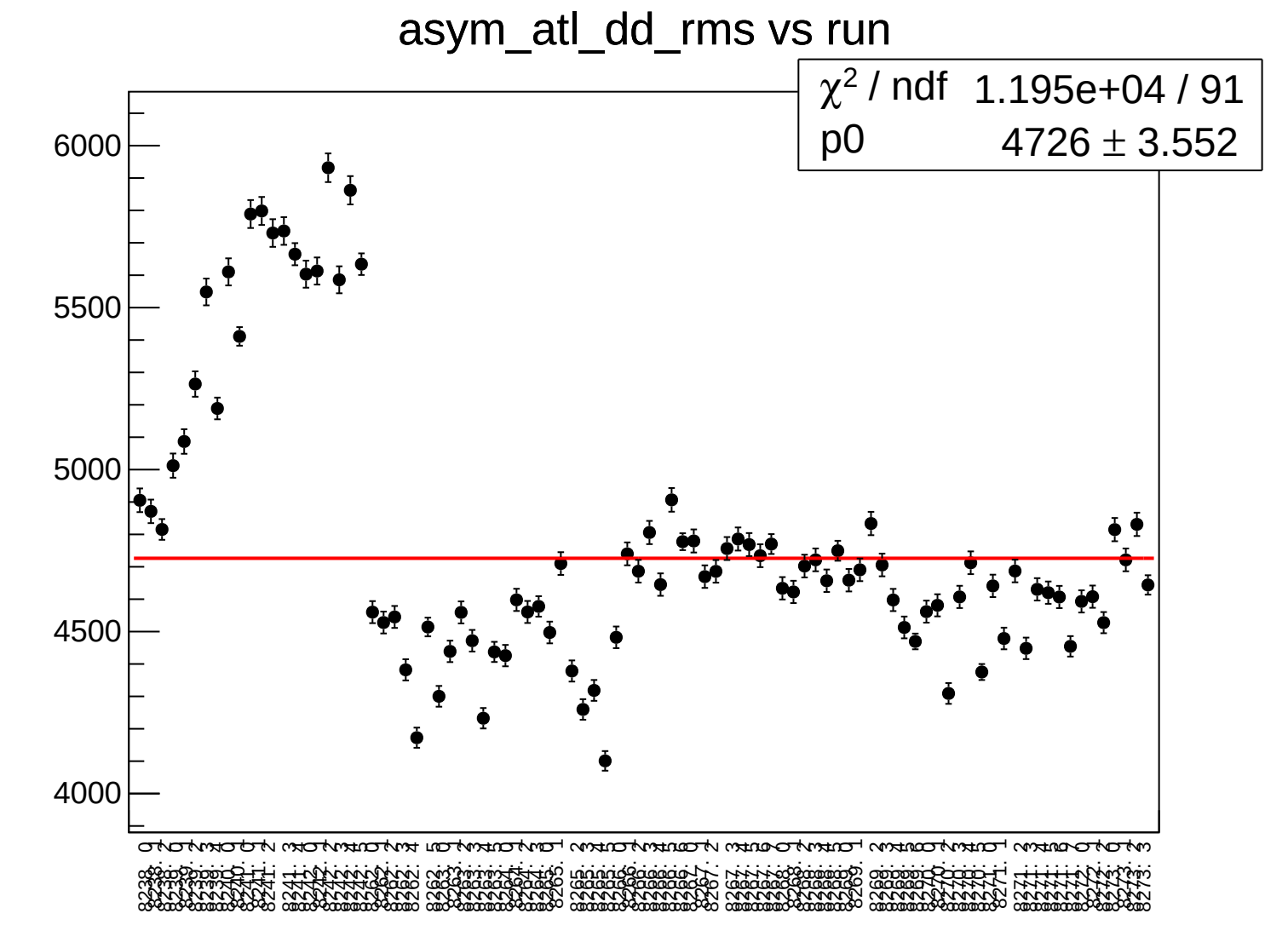

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 70.98 / 91
p0 −7762 ± 4793
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −403.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

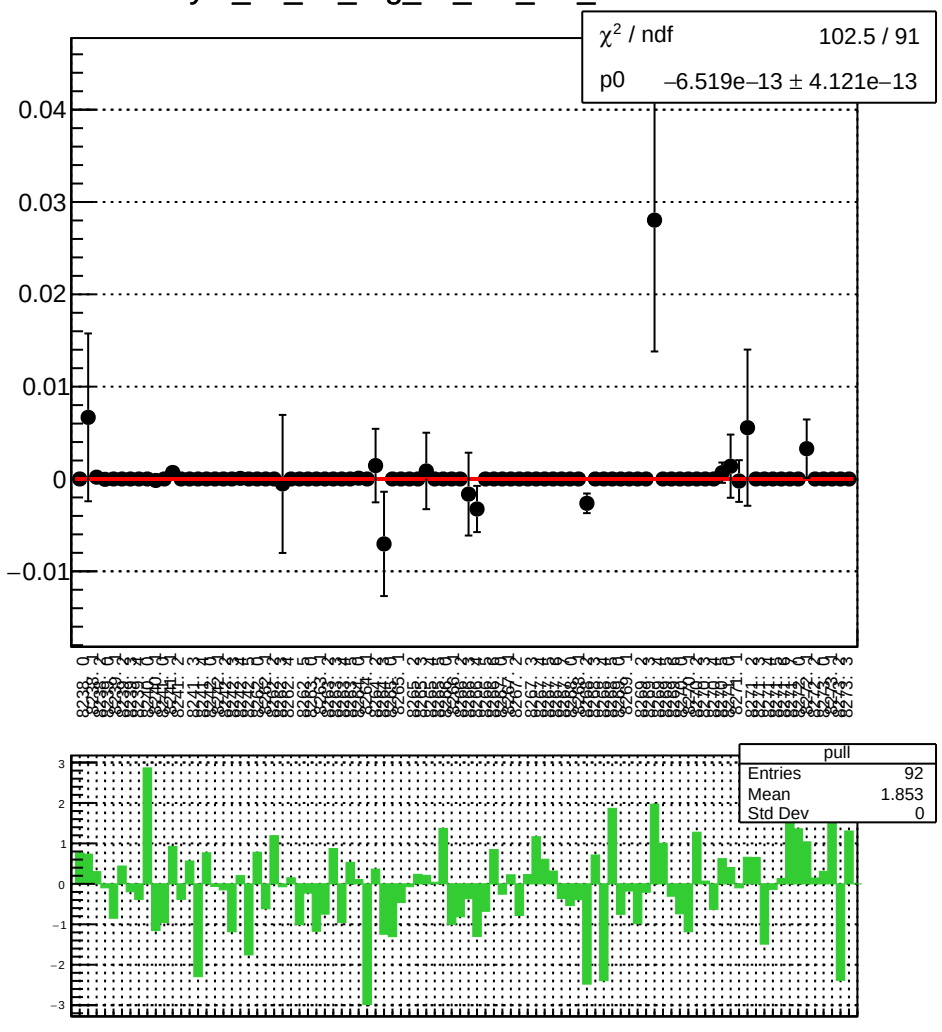

pull1D
Entries 92
Mean −0.00675
Std Dev 0.8783
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

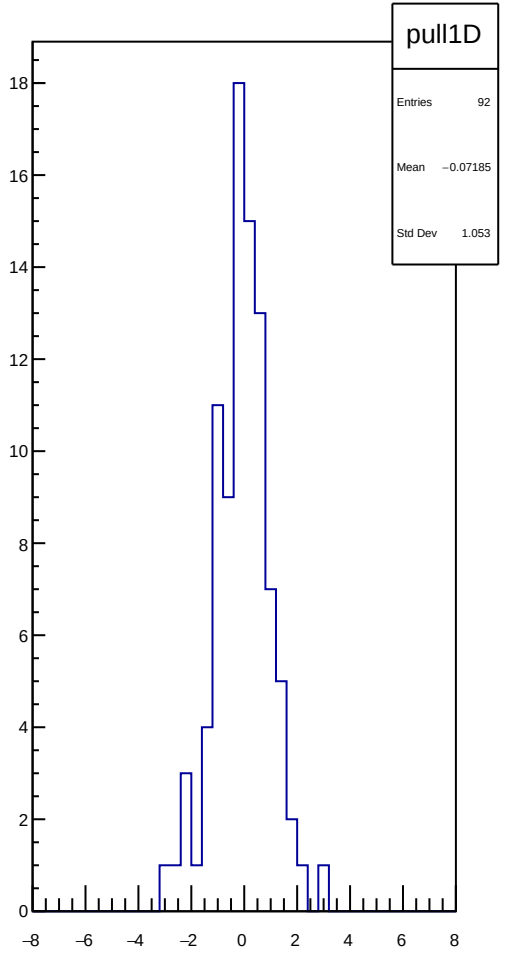

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.419e+04 / 91
p0 4507 ± 3.389
6000
5500
5000
4500
4000

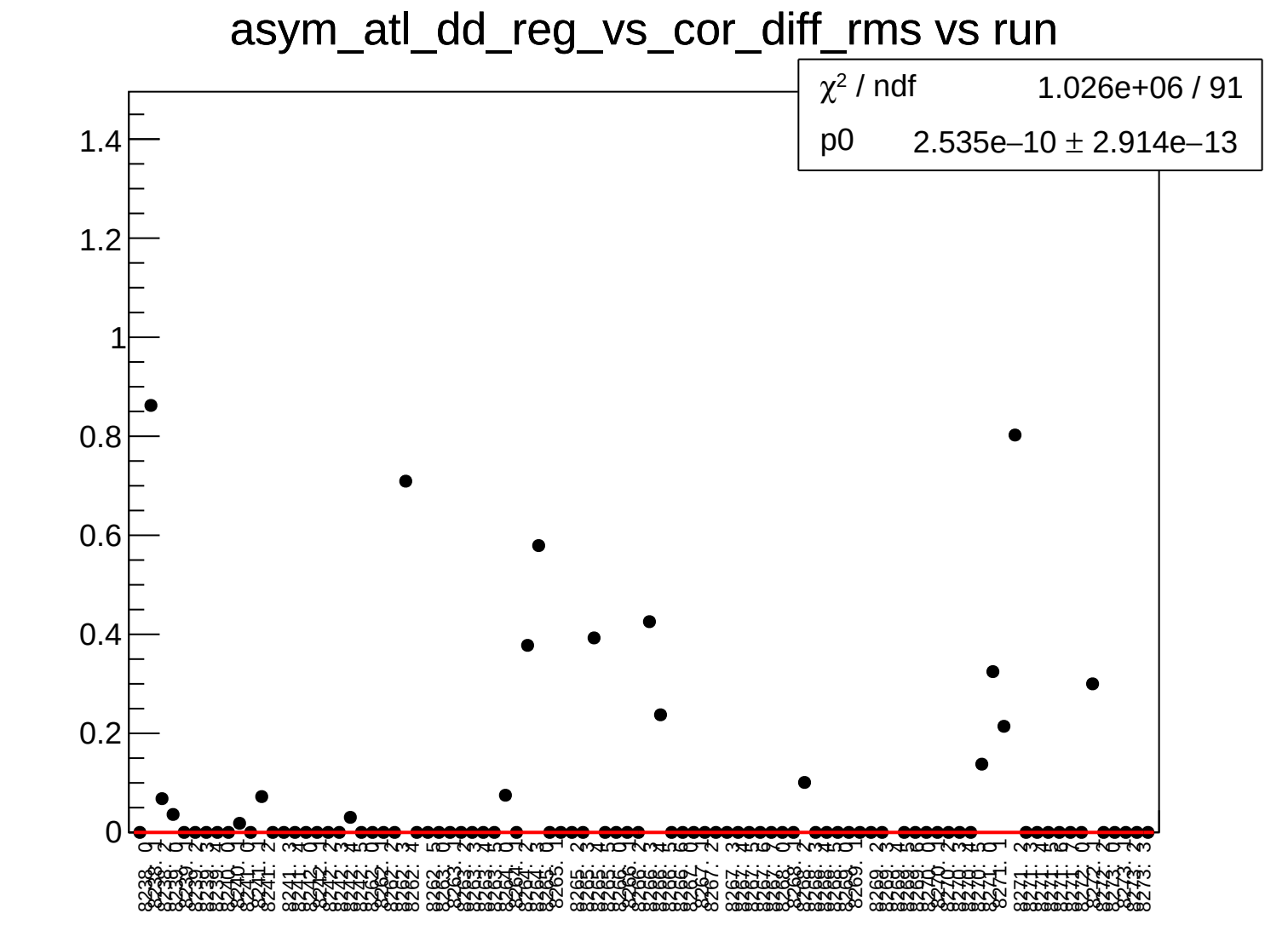

asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 78.37 / 91
p0 9150 ± 5023
pull
Entries 92
Mean −938.8
Std Dev 0

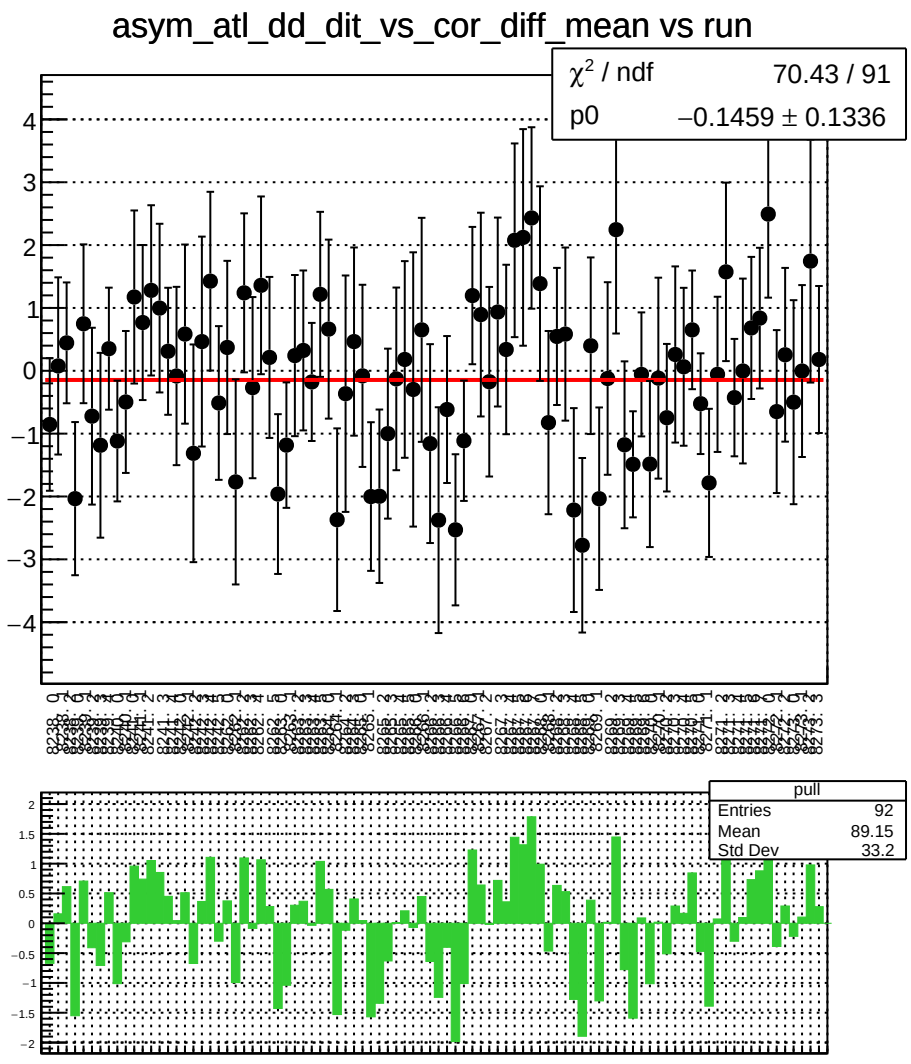

pull1D
Entries 92
Mean 0.003494
Std Dev 0.9229

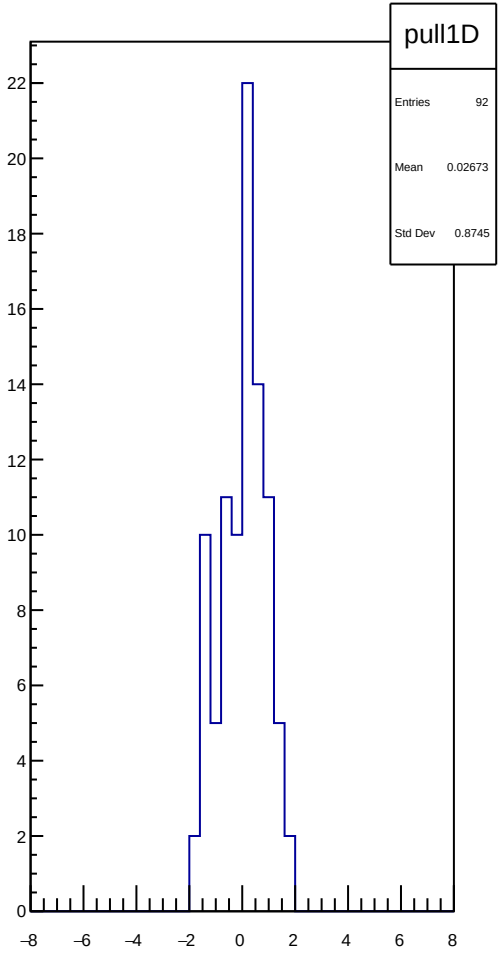

asym_atl_dd_rms vs run
χ² / ndf 1.195e+04 / 91
p0 4726 ± 3.552
6000
5500
5000
4500
4000

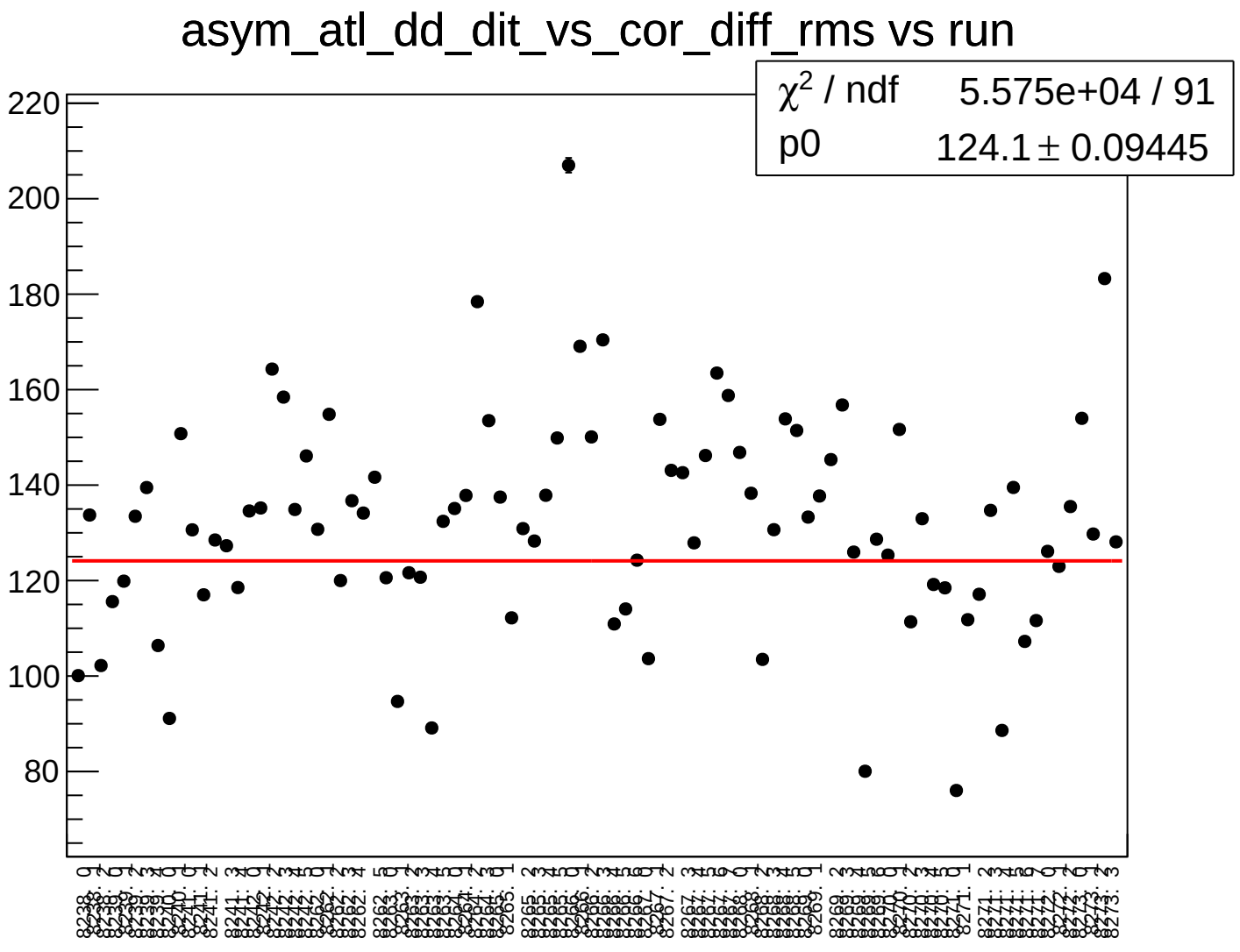

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.5 / 91
p0 −6.519e−13 ± 4.121e−13
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 92
Mean 1.853
Std Dev 0
3
2
1
0
−1
−2
−3

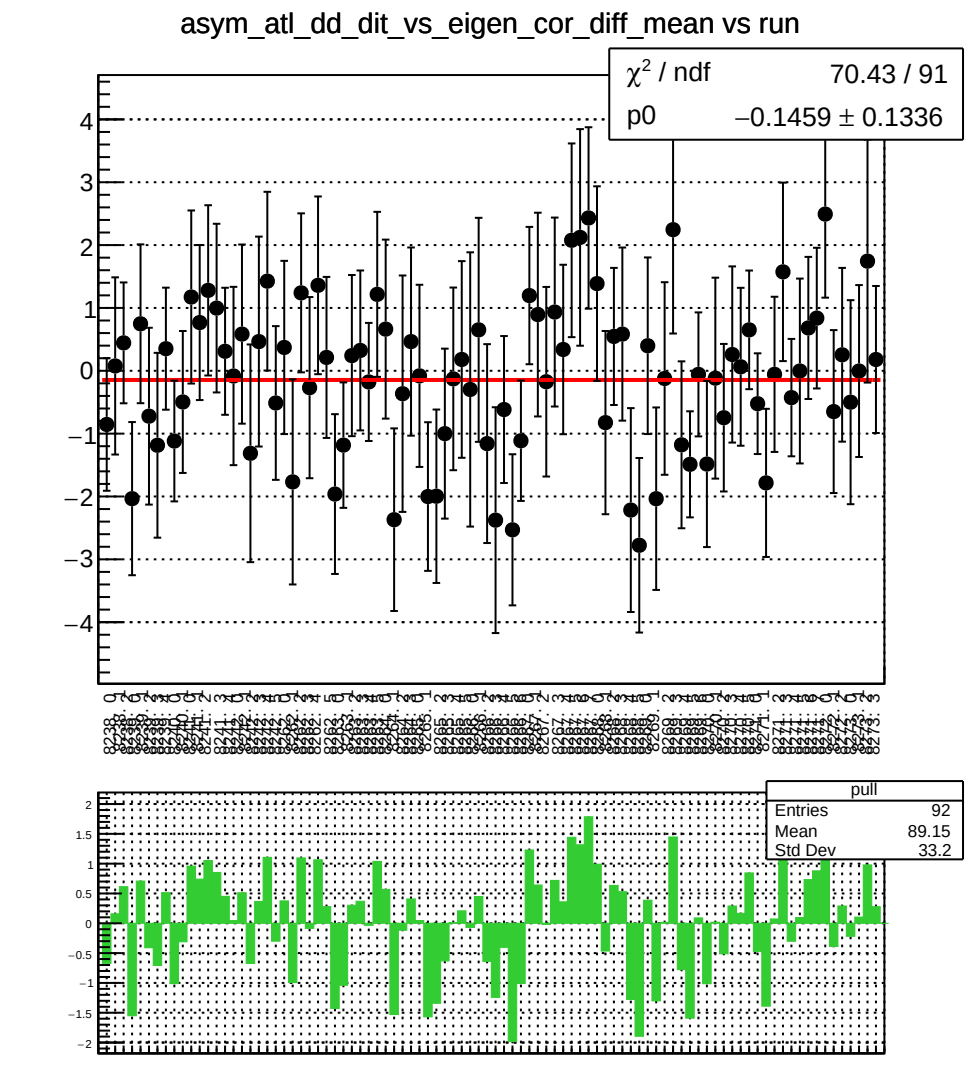

pull1D
Entries 92
Mean −0.07185
Std Dev 1.053
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

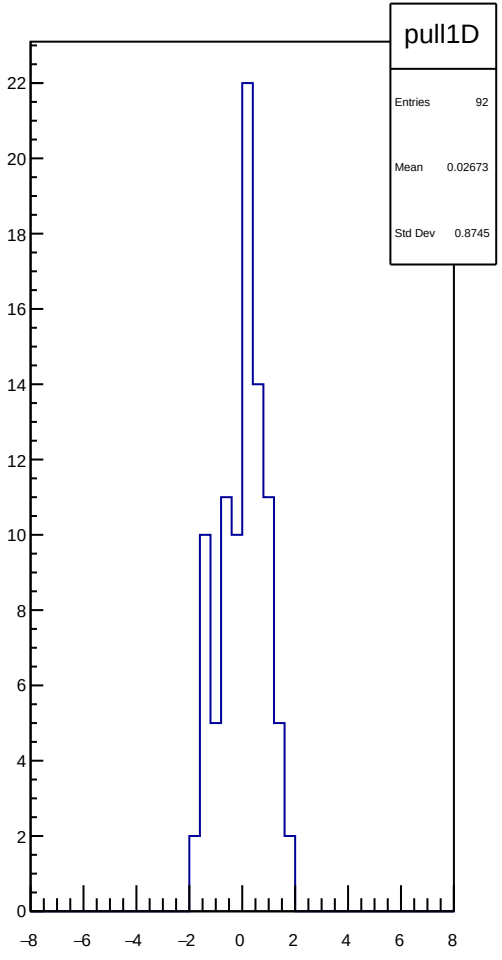

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.026e+06 / 91
p0 2.535e−10 ± 2.914e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

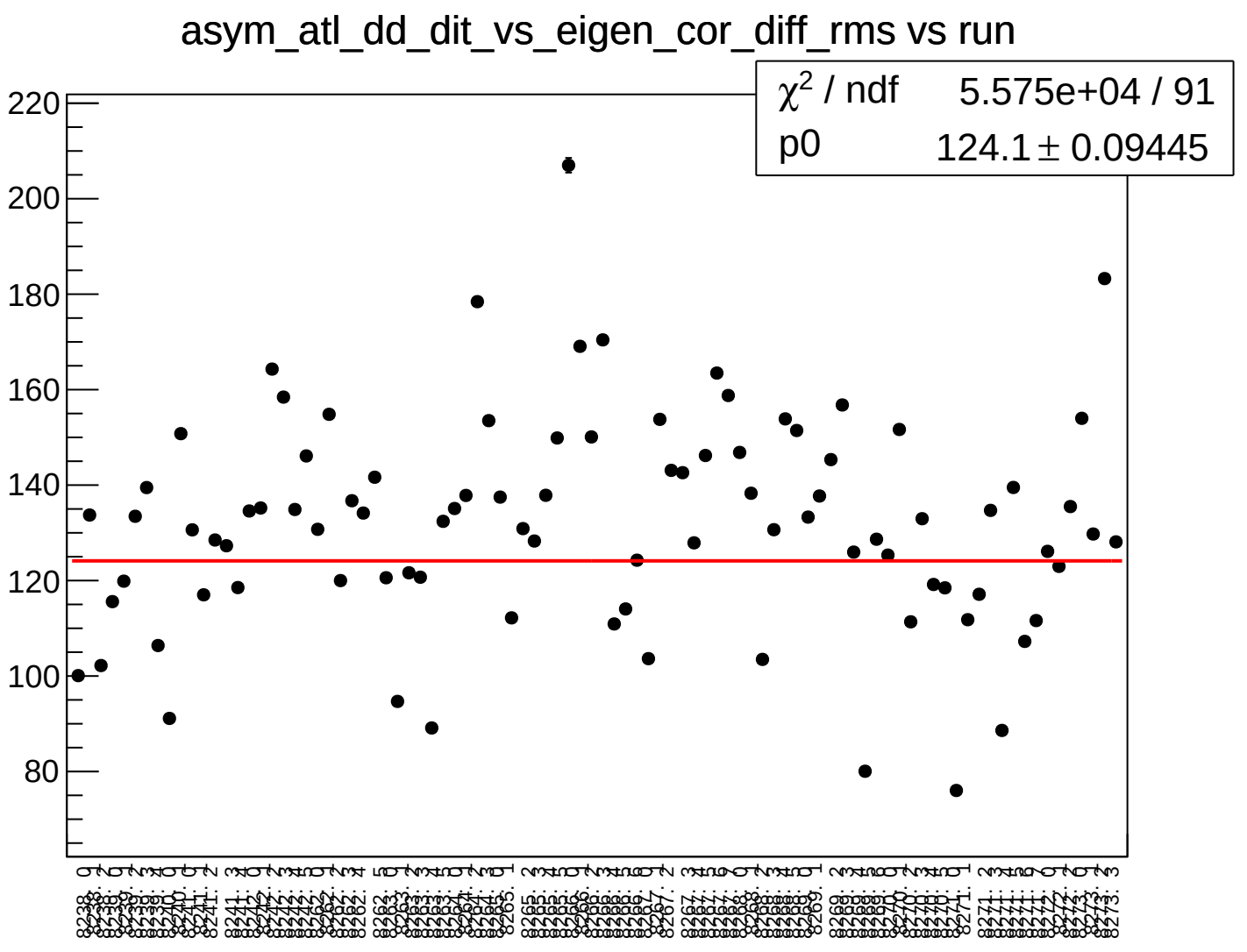

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 70.43 / 91
p0 −0.1459 ± 0.1336
pull
Entries 92
Mean 89.15
Std Dev 33.2

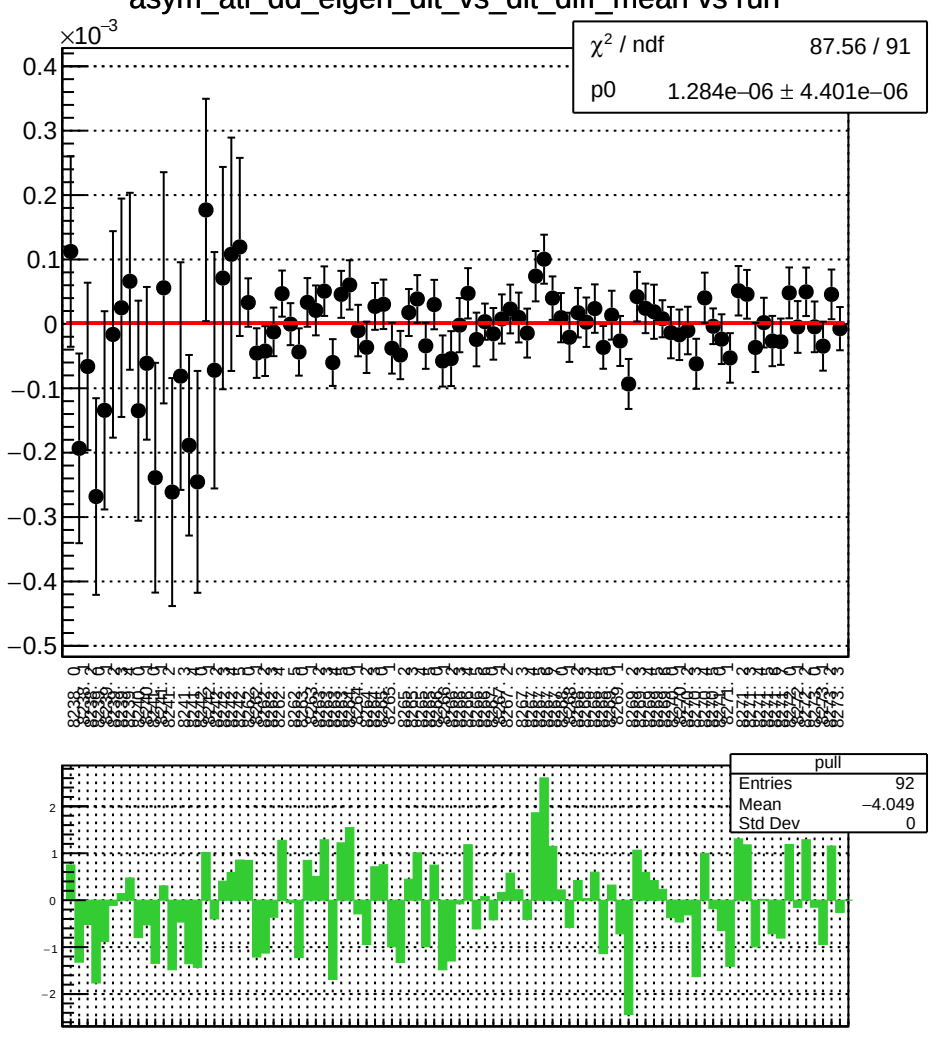

pull1D
Entries 92
Mean 0.02673
Std Dev 0.8745

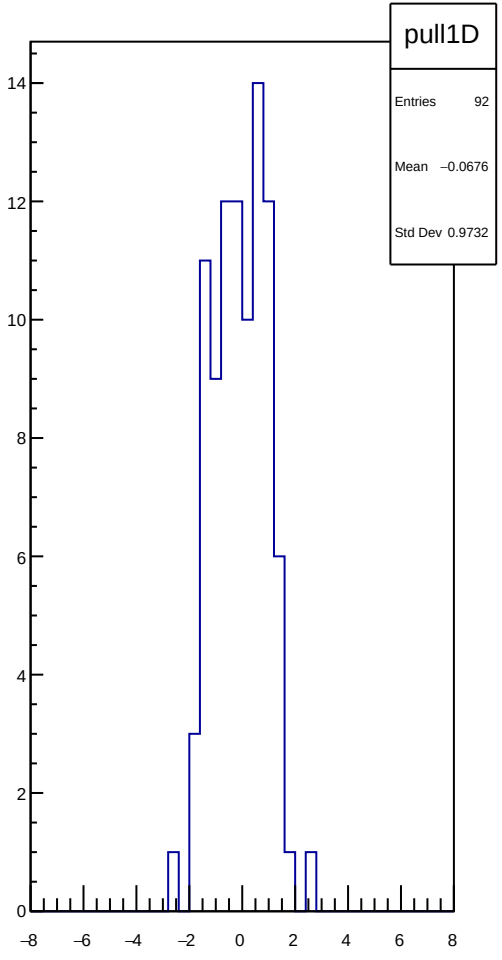

asym_atl_dd_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.575e+04 / 91
p0 124.1 ± 0.09445
220
200
180
160
140
120
100
80

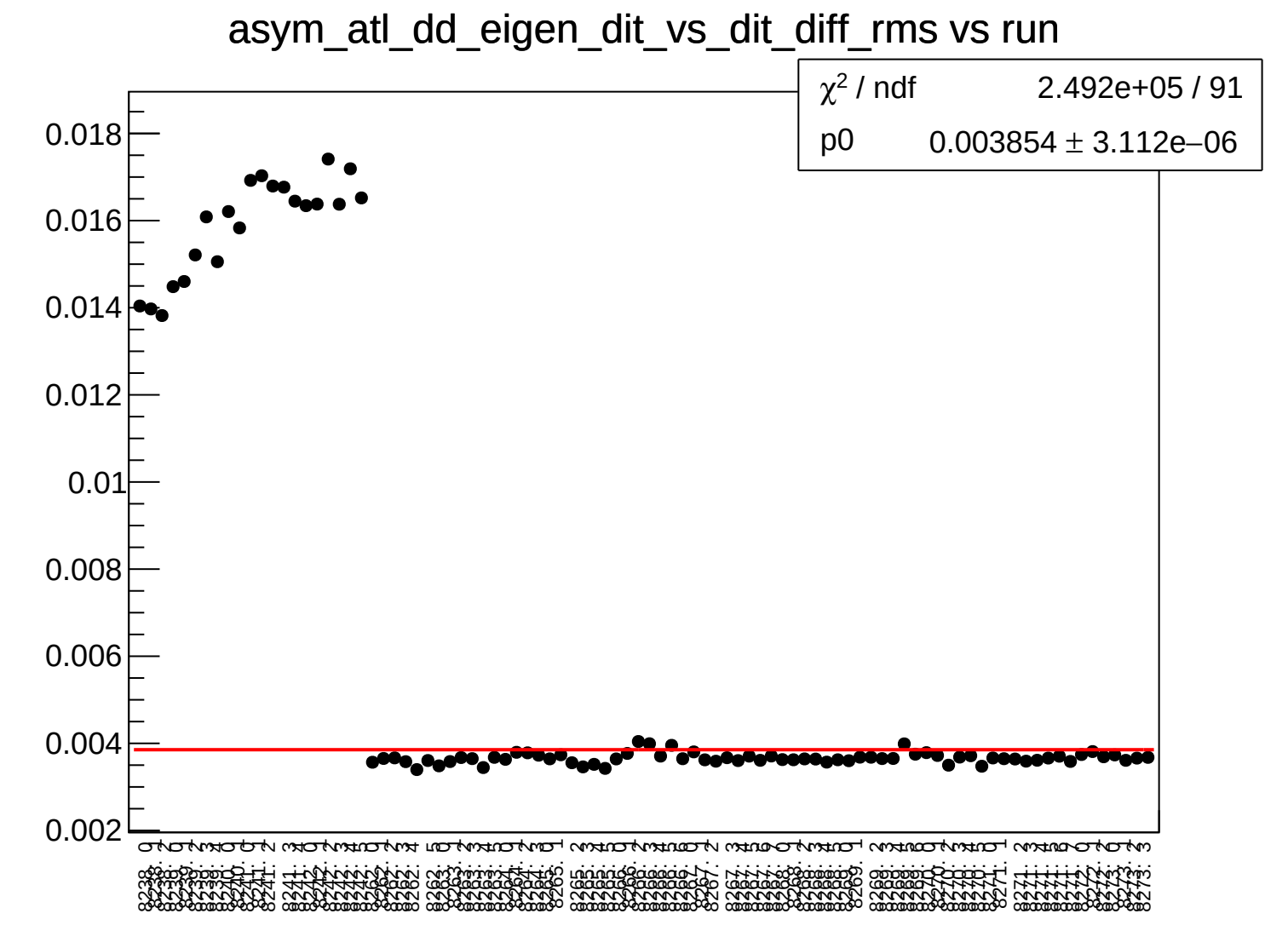

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.43 / 91
p0 −0.1459 ± 0.1336
pull
Entries 92
Mean 89.15
Std Dev 33.2

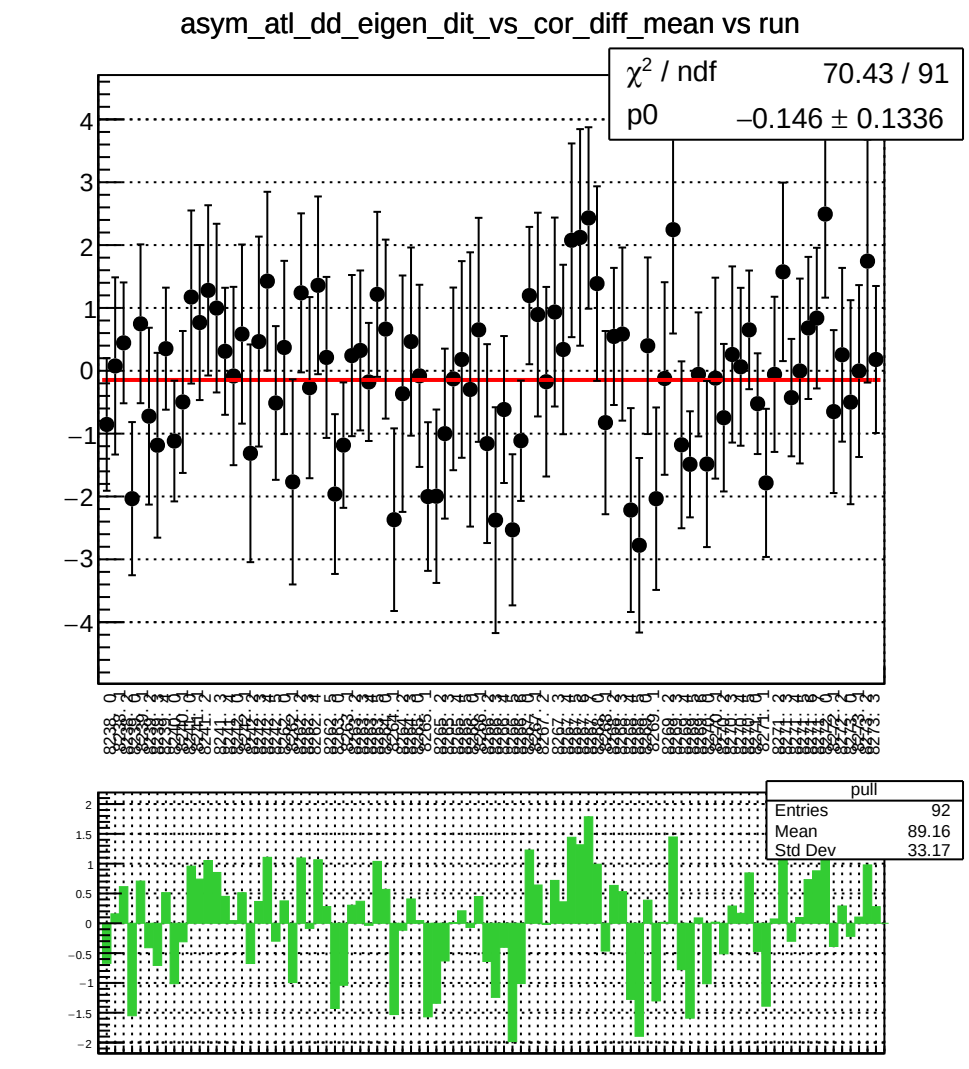

pull1D
Entries 92
Mean 0.02673
Std Dev 0.8745

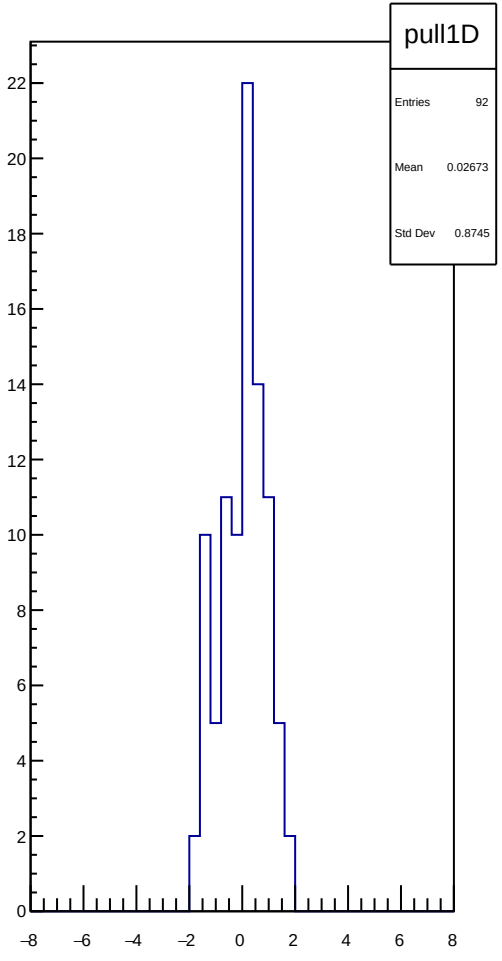

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 5.575e+04 / 91
p0 124.1 ± 0.09445
220
200
180
160
140
120
100
80

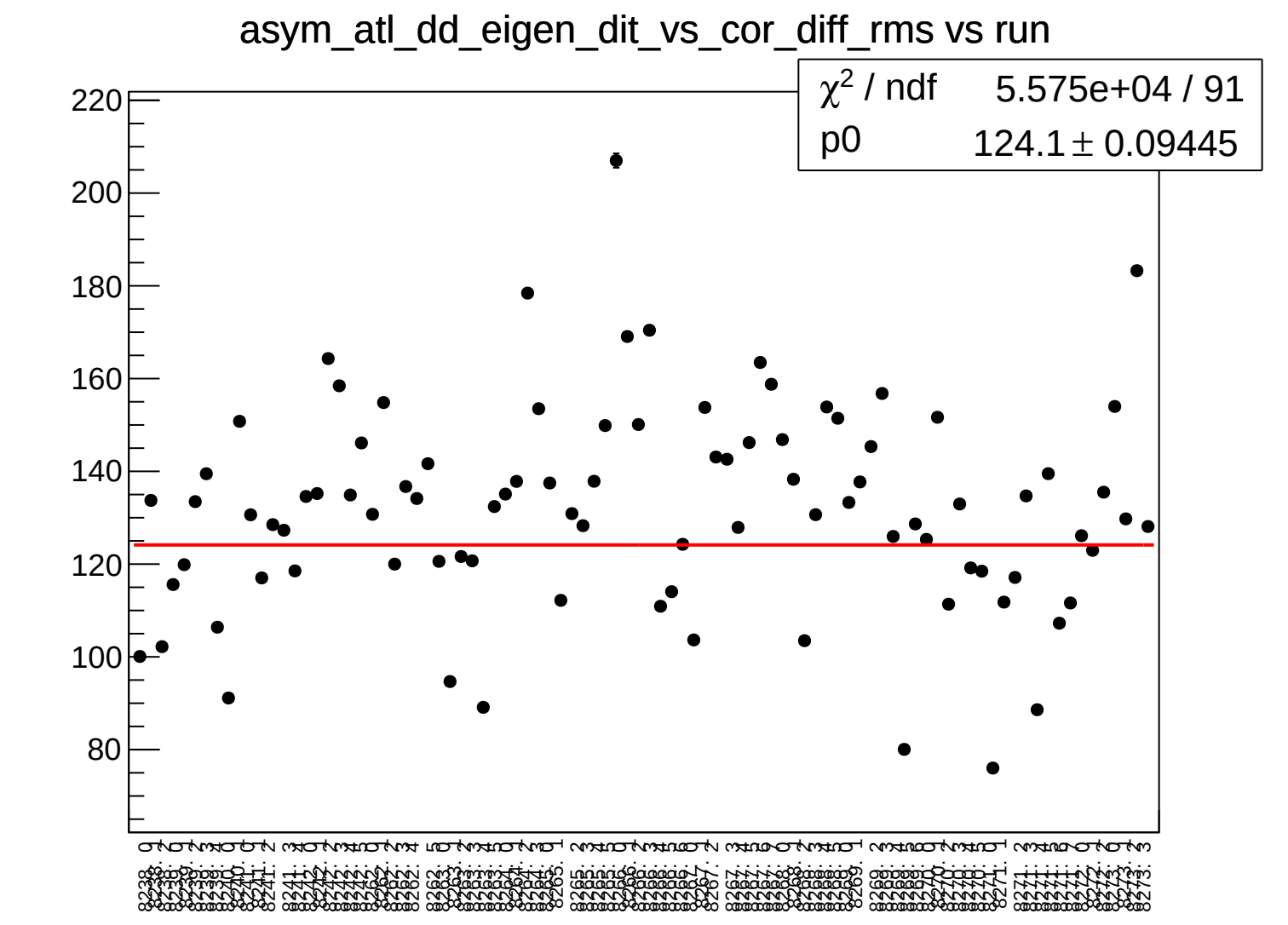

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.56 / 91
p0 1.284e−06 ± 4.401e−06
pull
Entries 92
Mean −4.049
Std Dev 0

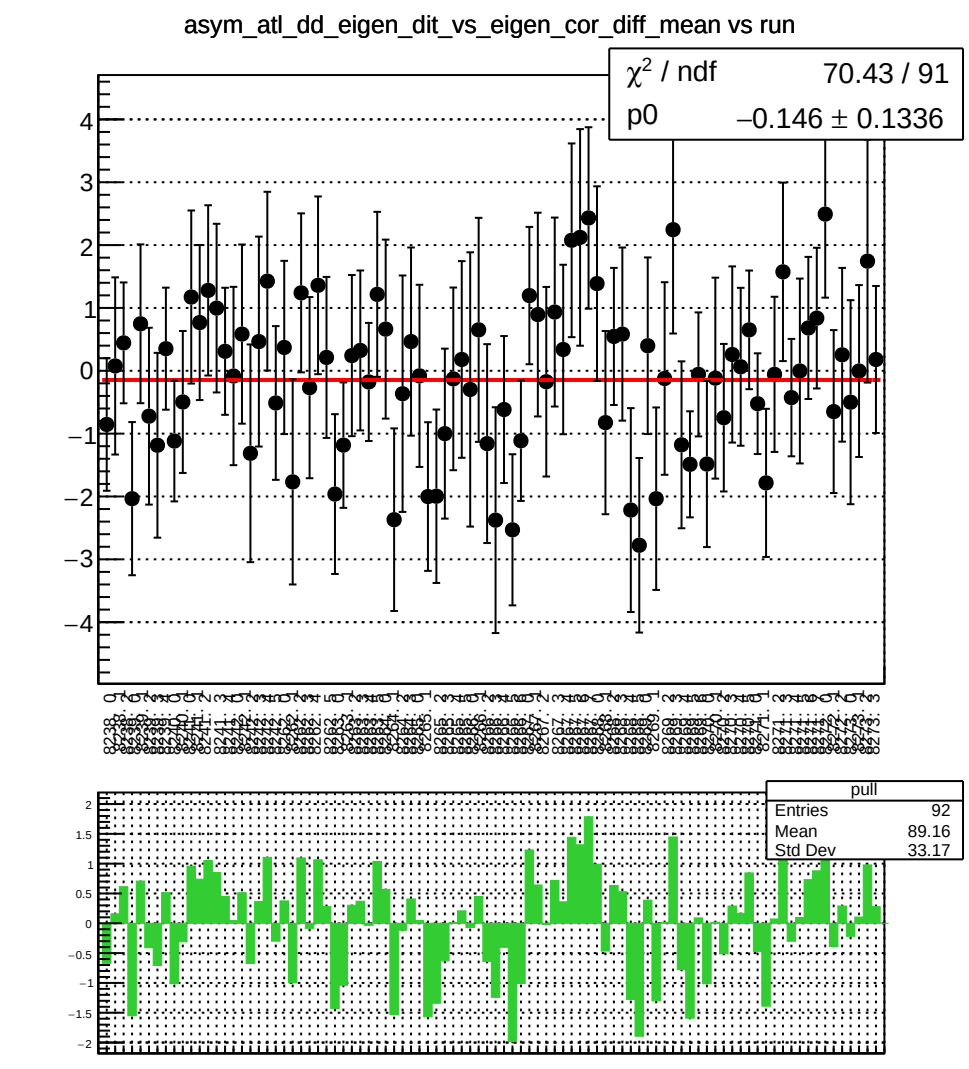

pull1D
Entries 92
Mean −0.0676
Std Dev 0.9732

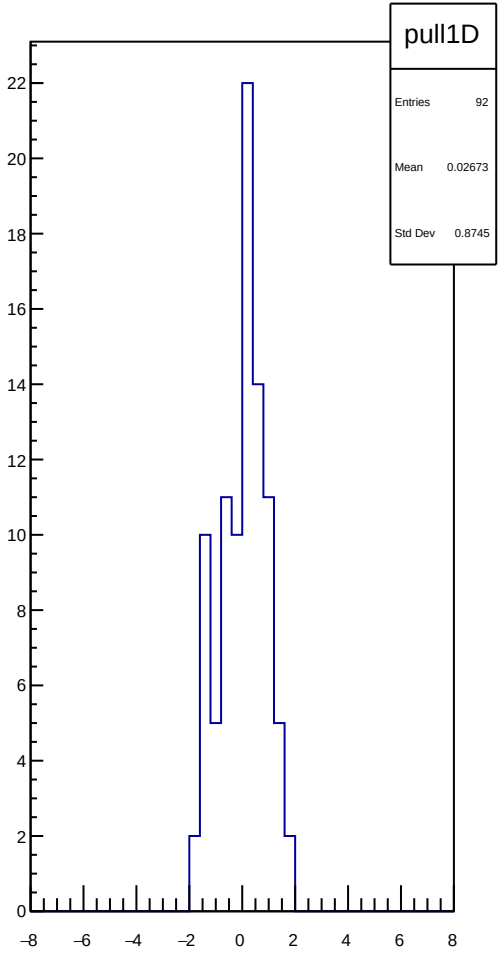

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.492e+05 / 91
p0 0.003854 ± 3.112e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

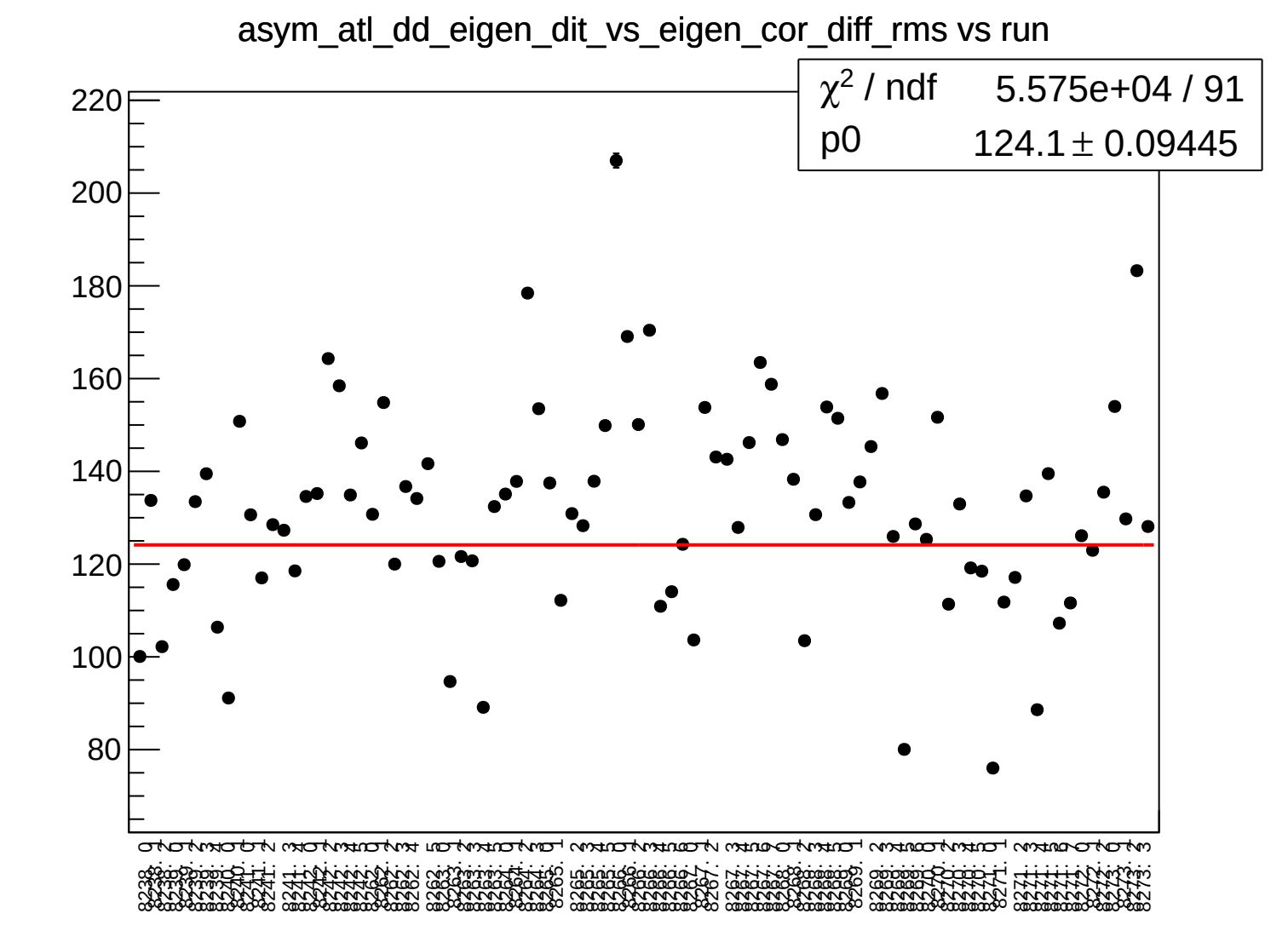

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.43 / 91
p0 −0.146 ± 0.1336
pull
Entries 92
Mean 89.16
Std Dev 33.17

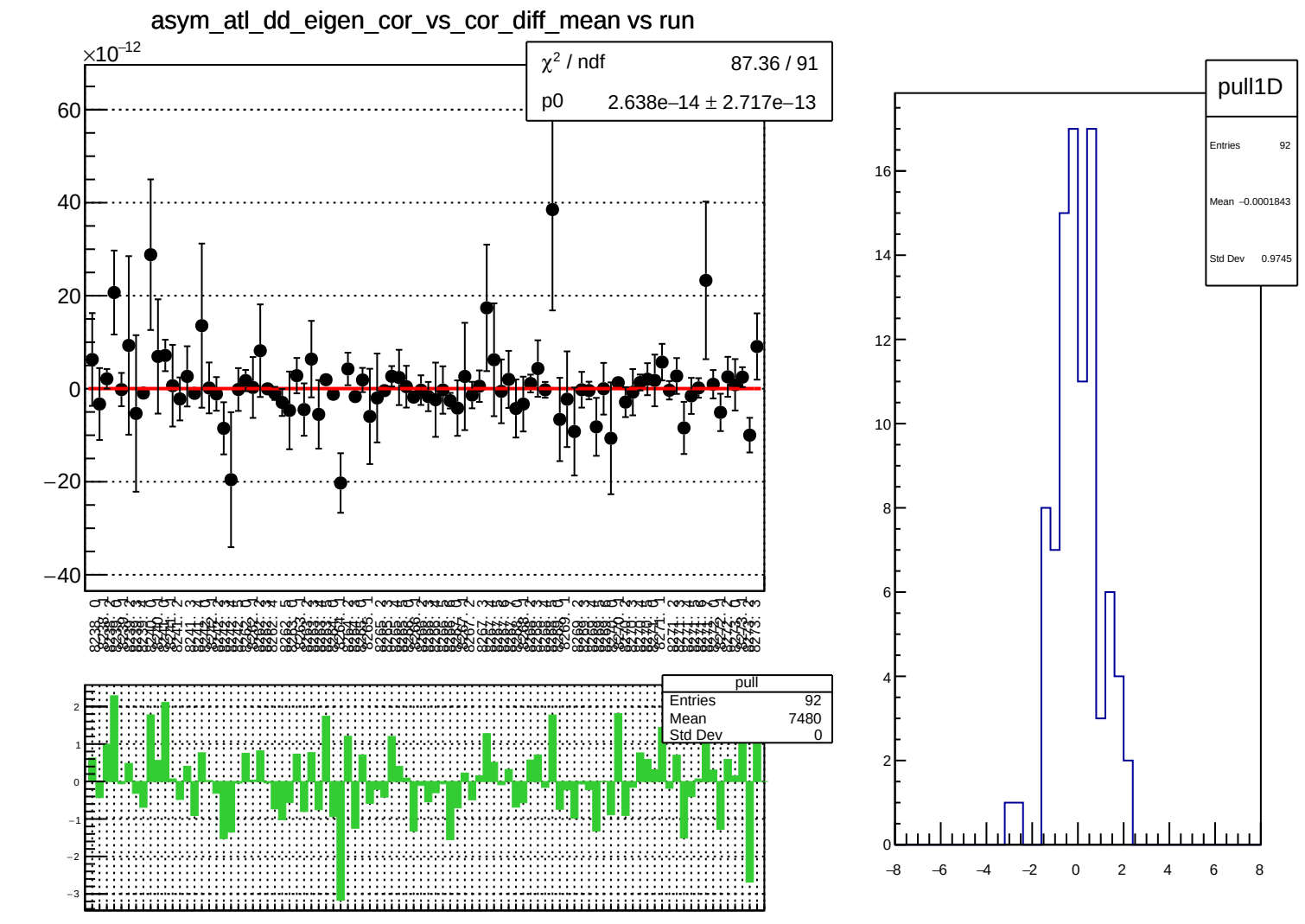

pull1D
Entries 92
Mean 0.02673
Std Dev 0.8745

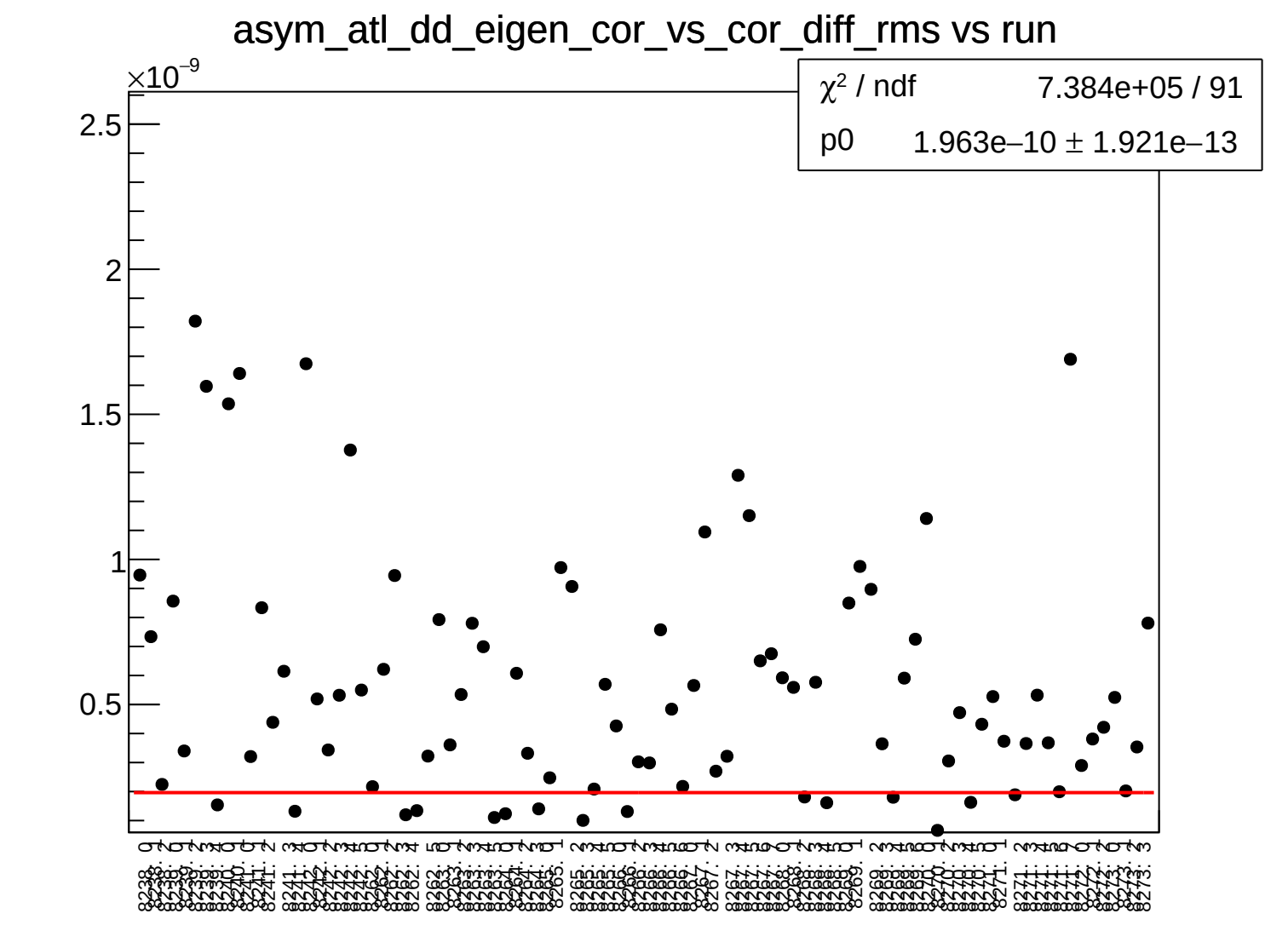

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.575e+04 / 91
p0 124.1 ± 0.09445
220
200
180
160
140
120
100
80

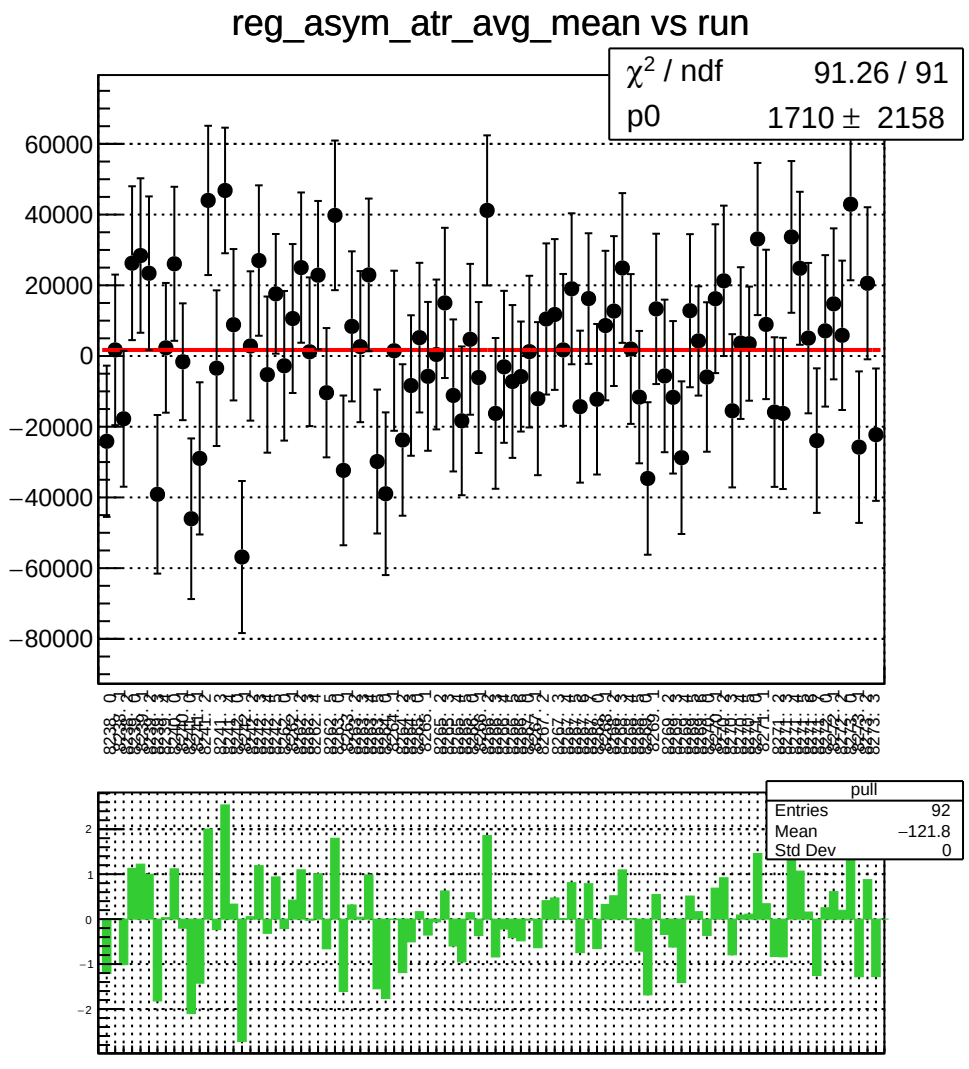

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.43 / 91
p0 −0.146 ± 0.1336
pull
Entries 92
Mean 89.16
Std Dev 33.17

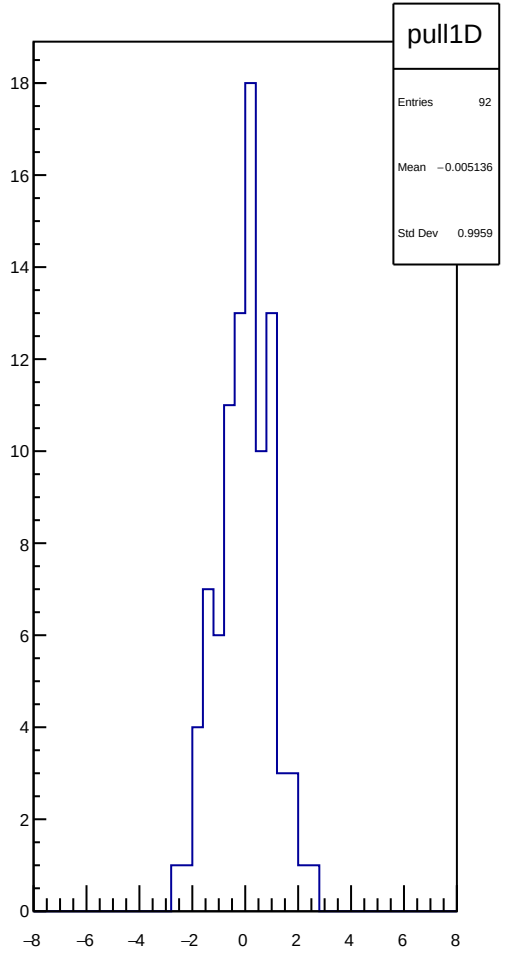

pull1D
Entries 92
Mean 0.02673
Std Dev 0.8745

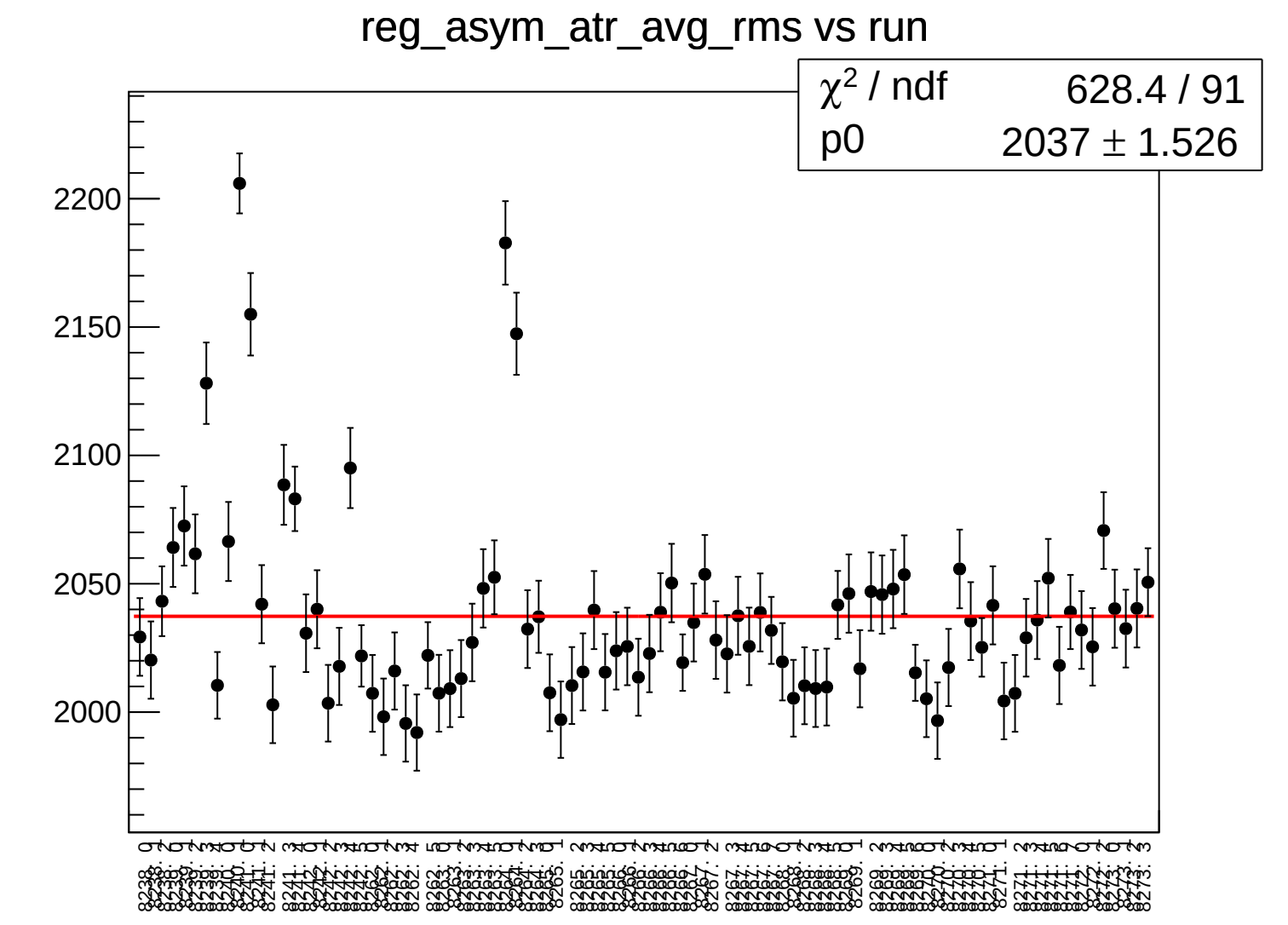

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 5.575e+04 / 91
p0 124.1 ± 0.09445
220
200
180
160
140
120
100
80

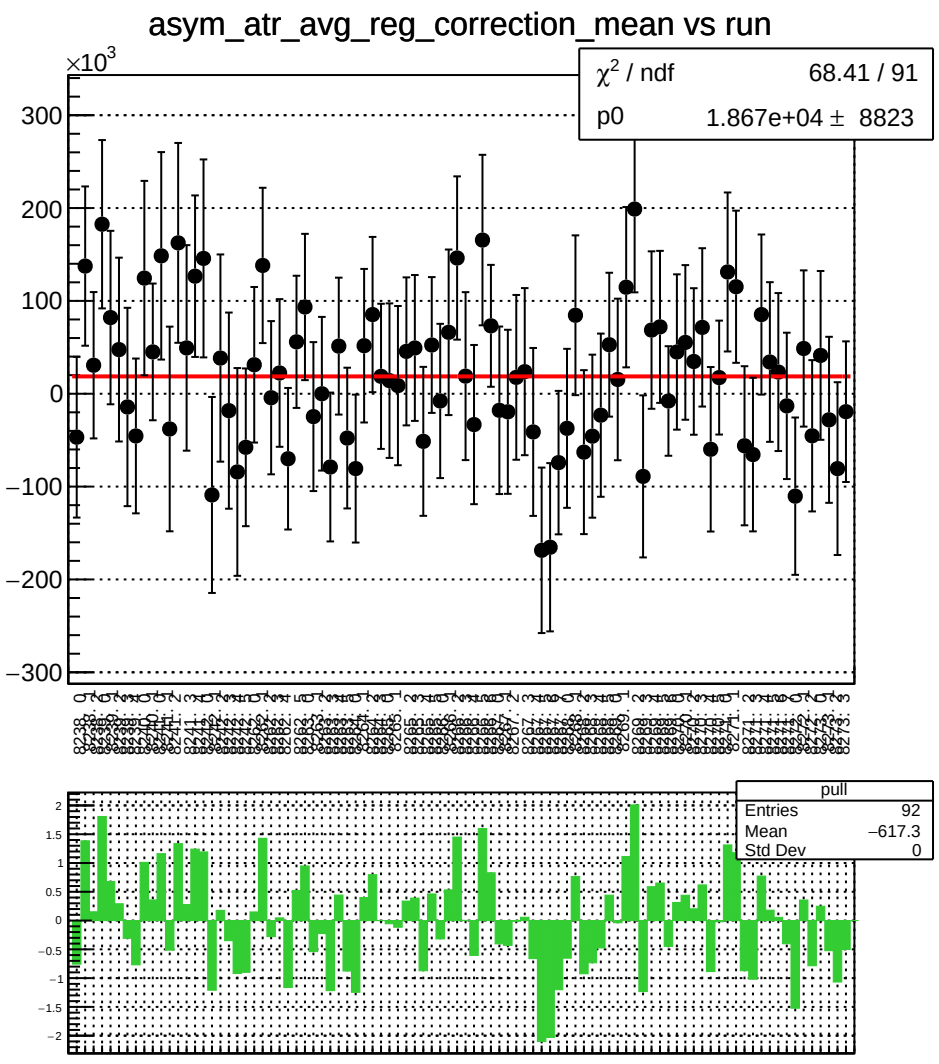

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.36 / 91
p0 2.638e−14 ± 2.717e−13
pull
Entries 92
Mean 7480
Std Dev 0
pull1D
Entries 92
Mean −0.0001843
Std Dev 0.9745

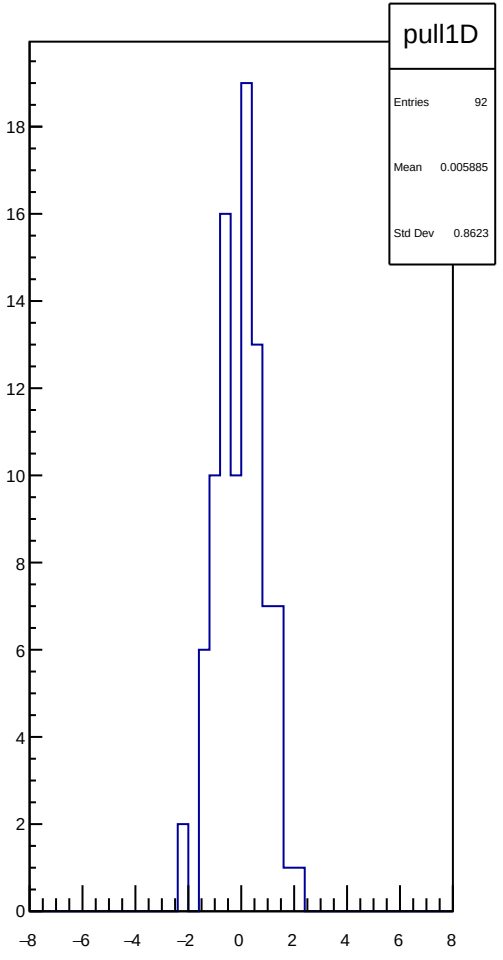

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.384e+05 / 91
p0 1.963e−10 ± 1.921e−13
2.5
2
1.5
1
0.5

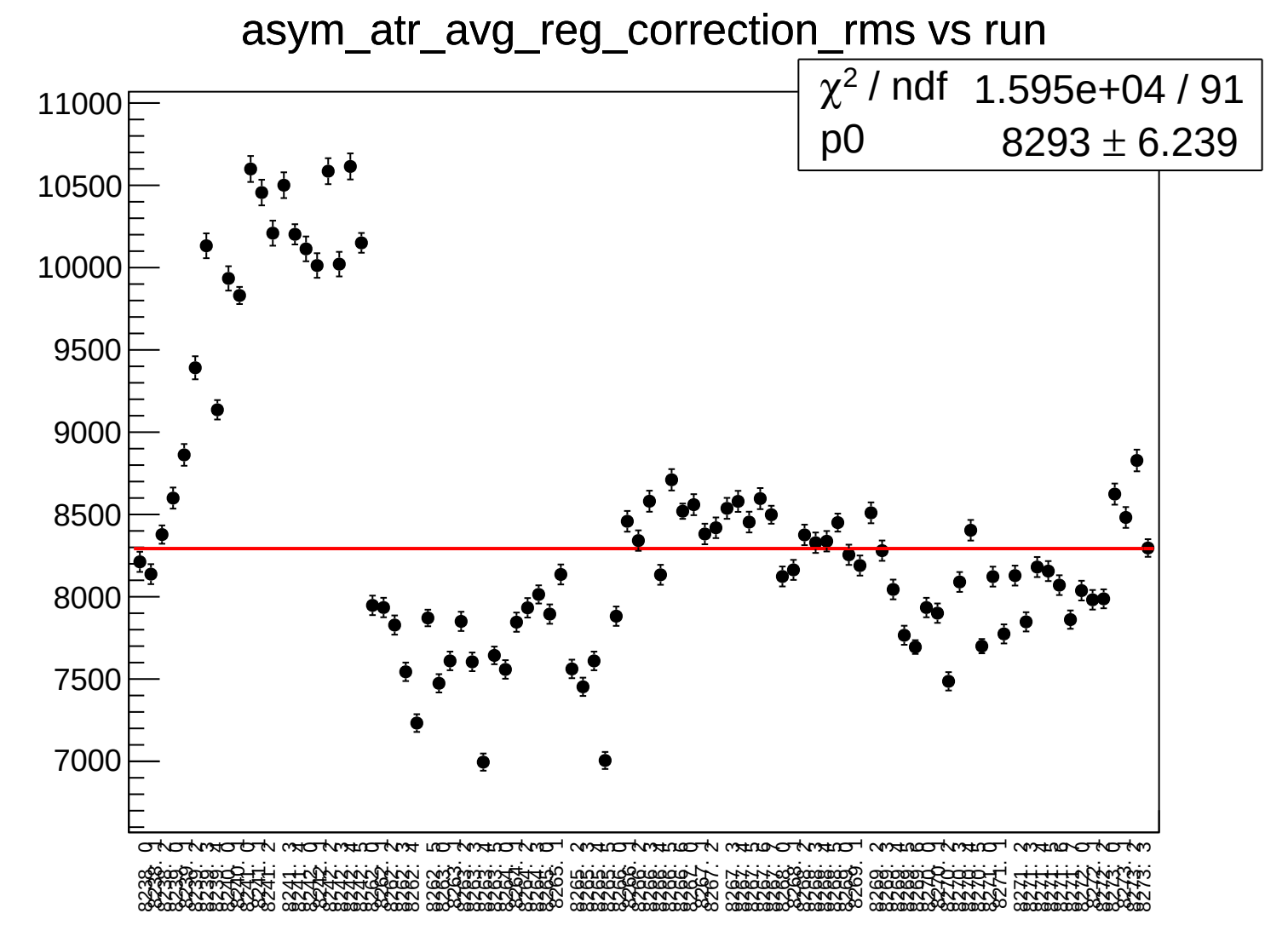

reg_asym_atr_avg_mean vs run
χ² / ndf 91.26 / 91
p0 1710 ± 2158
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −121.8
Std Dev 0
2
1
0
−1
−2

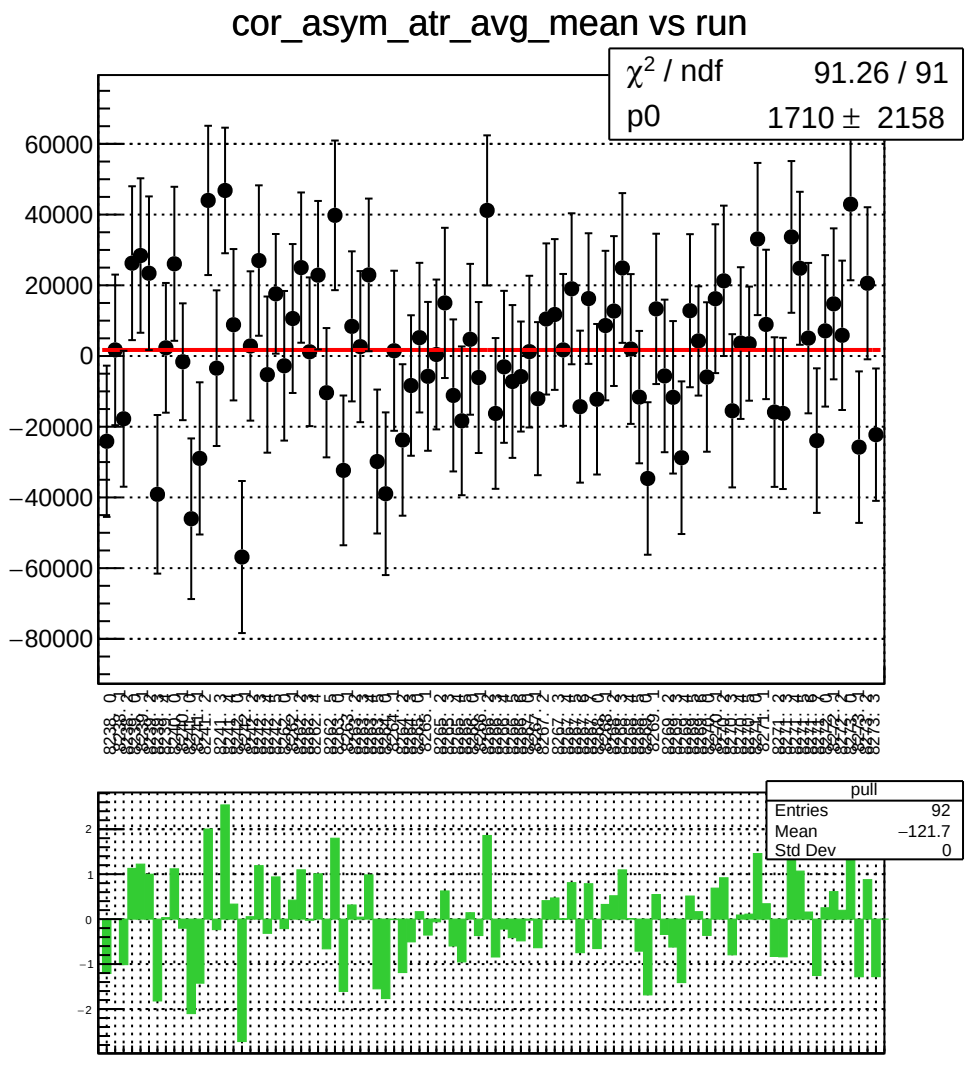

pull1D
Entries 92
Mean −0.005136
Std Dev 0.9959
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

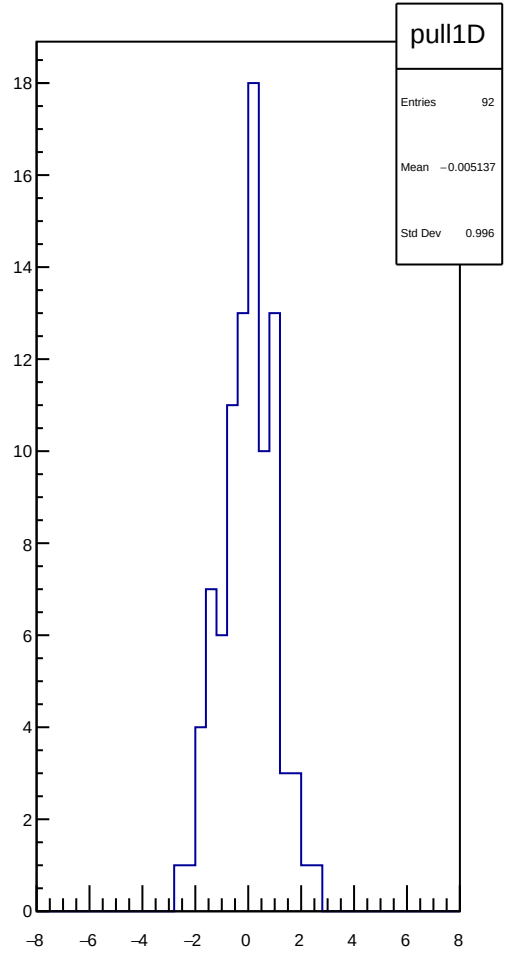

reg_asym_atr_avg_rms vs run
$\chi^2$ / ndf 628.4 / 91
p0 2037 ± 1.526
2200
2150
2100
2050
2000

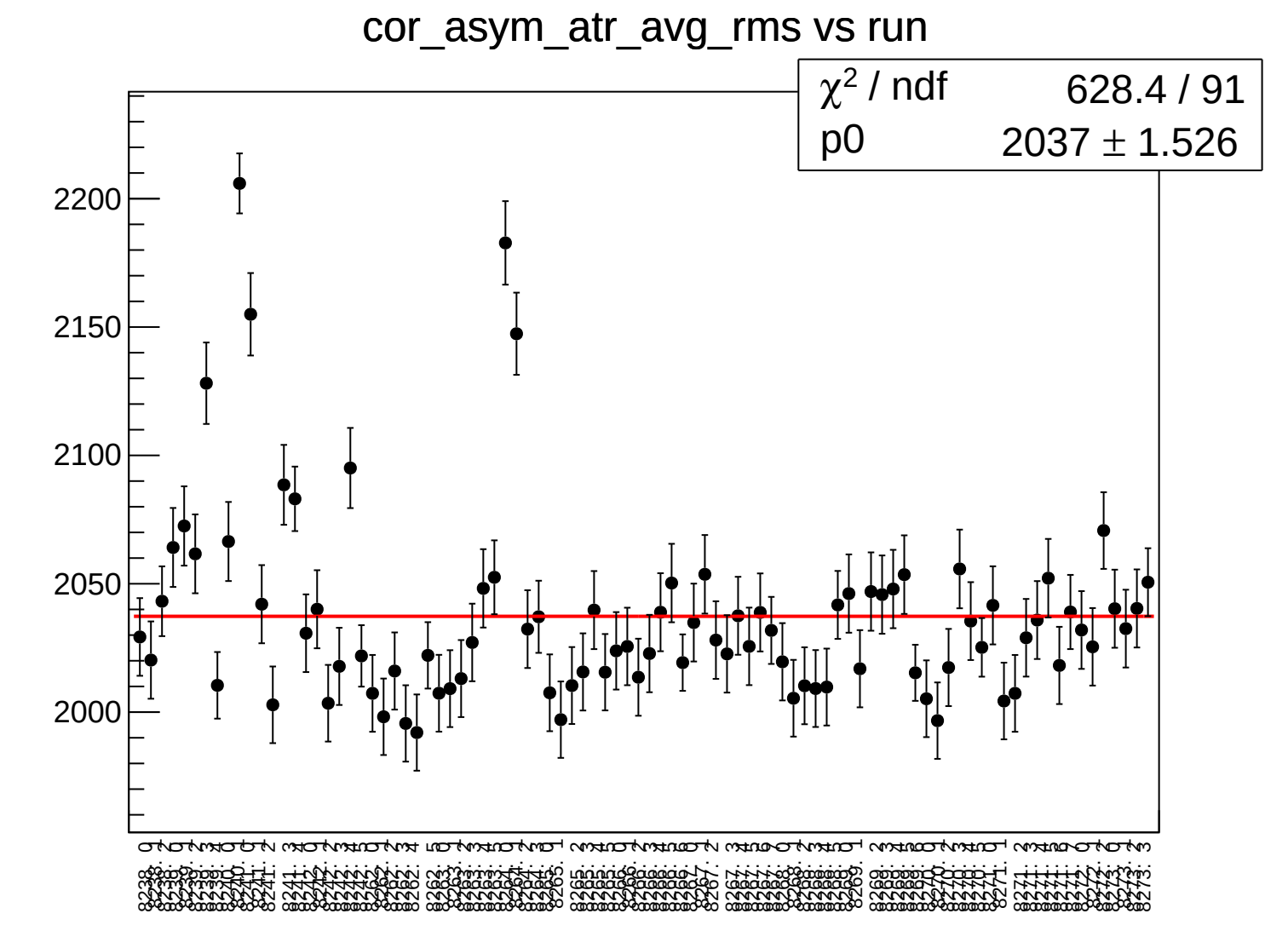

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 68.41 / 91
p0 1.867e+04 ± 8823
pull
Entries 92
Mean −617.3
Std Dev 0

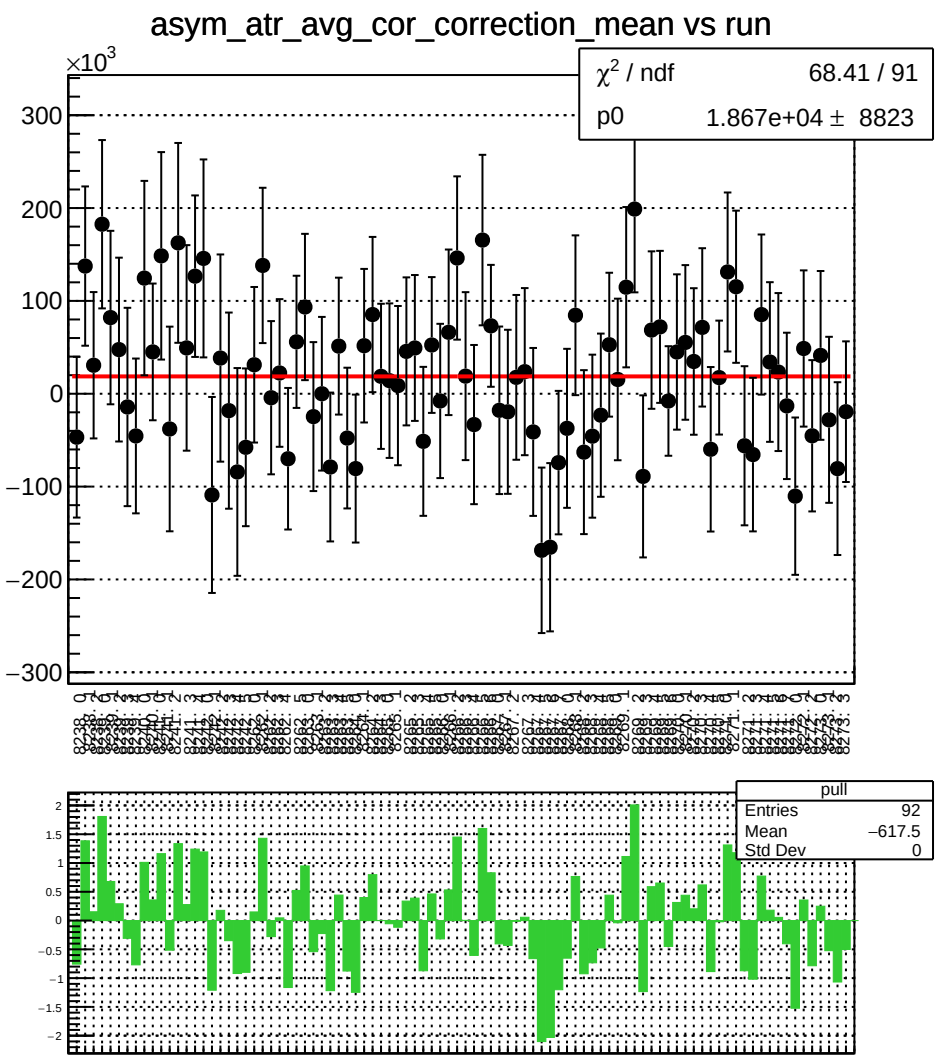

pull1D
Entries 92
Mean 0.005885
Std Dev 0.8623

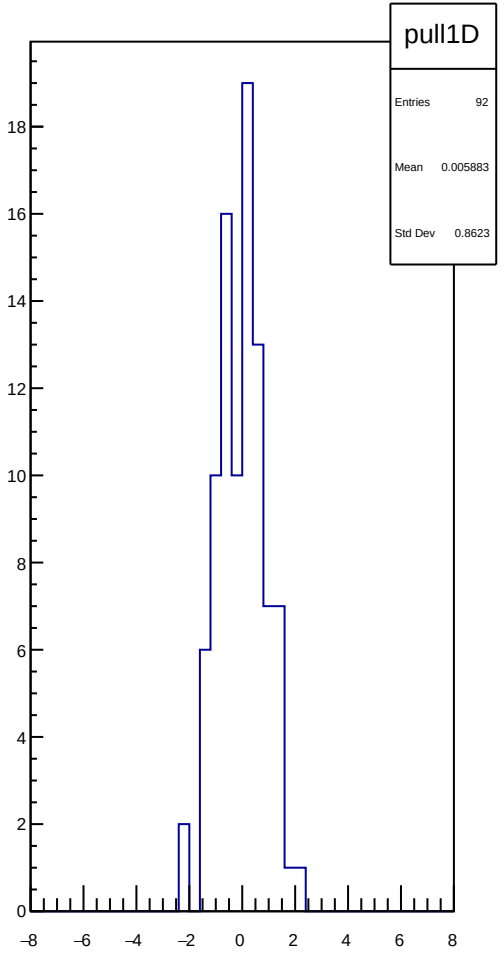

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 1.595e+04 / 91
p0 8293 ± 6.239
11000
10500
10000
9500
9000
8500
8000
7500
7000

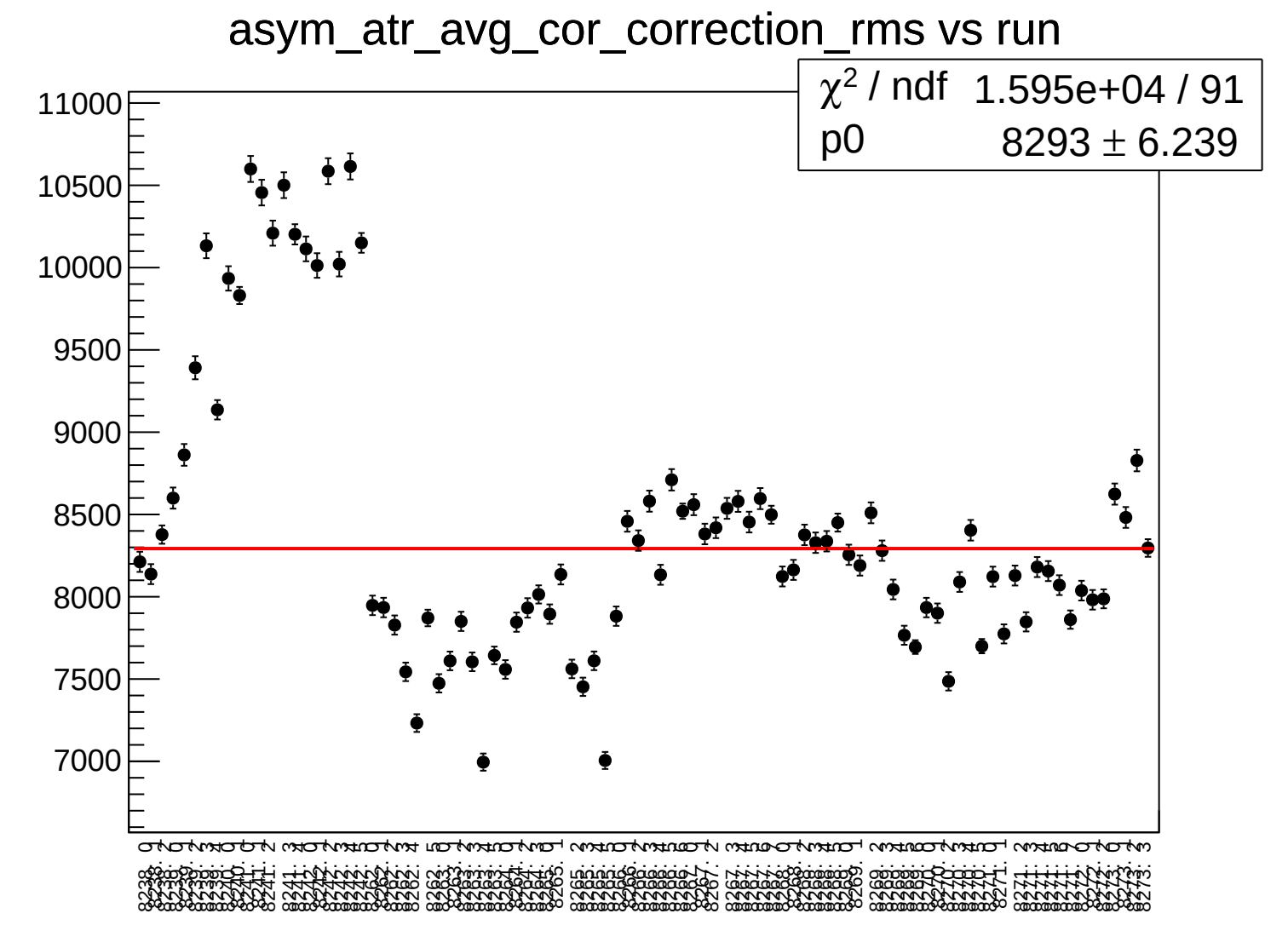

cor_asym_atr_avg_mean vs run
χ² / ndf 91.26 / 91
p0 1710 ± 2158
pull
Entries 92
Mean −121.7
Std Dev 0

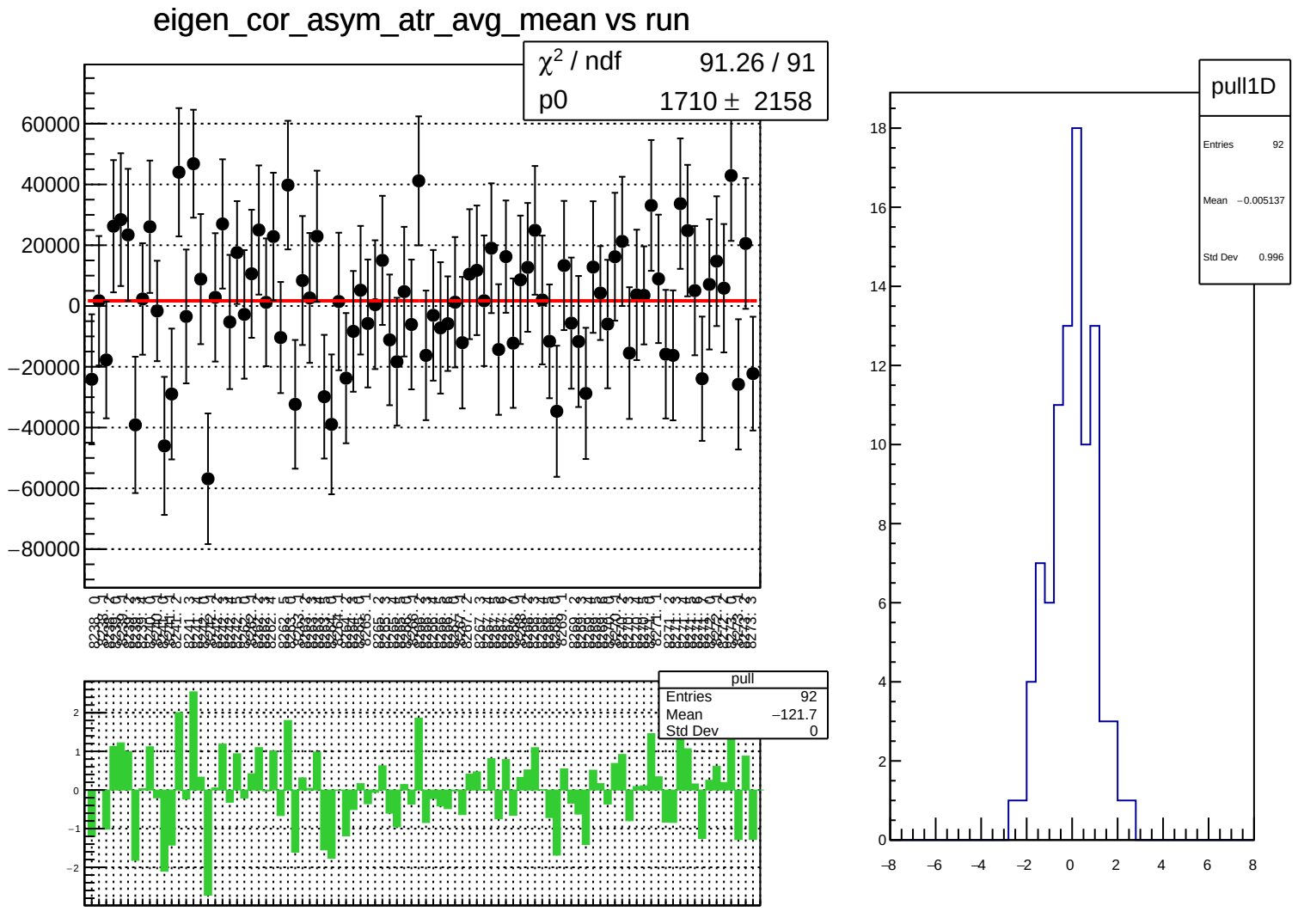

pull1D
Entries 92
Mean −0.005137
Std Dev 0.996


cor_asym_atr_avg_rms vs run
χ² / ndf 628.4 / 91
p0 2037 ± 1.526
2200
2150
2100
2050
2000

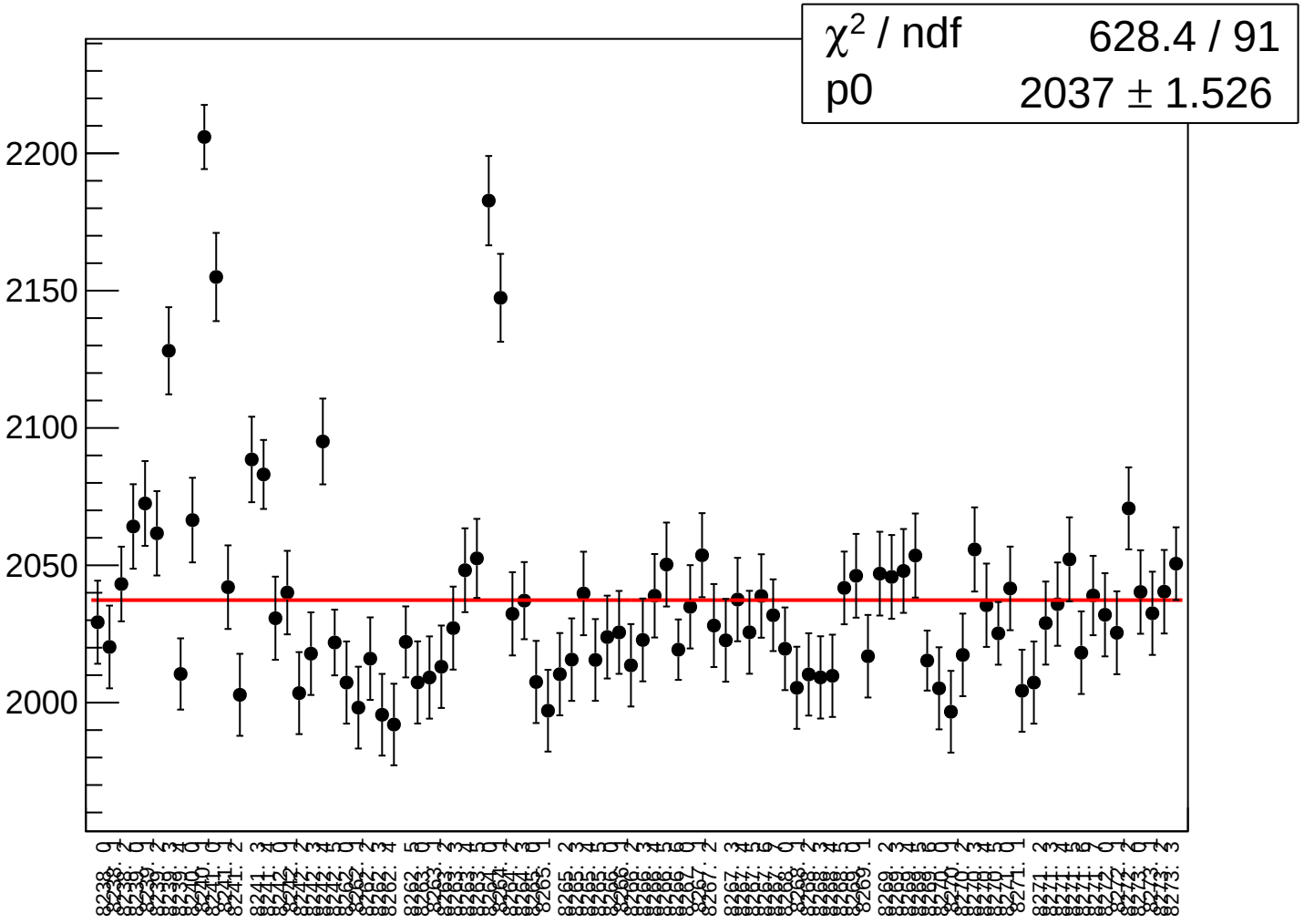

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 68.41 / 91
p0 1.867e+04 ± 8823
pull
Entries 92
Mean −617.5
Std Dev 0

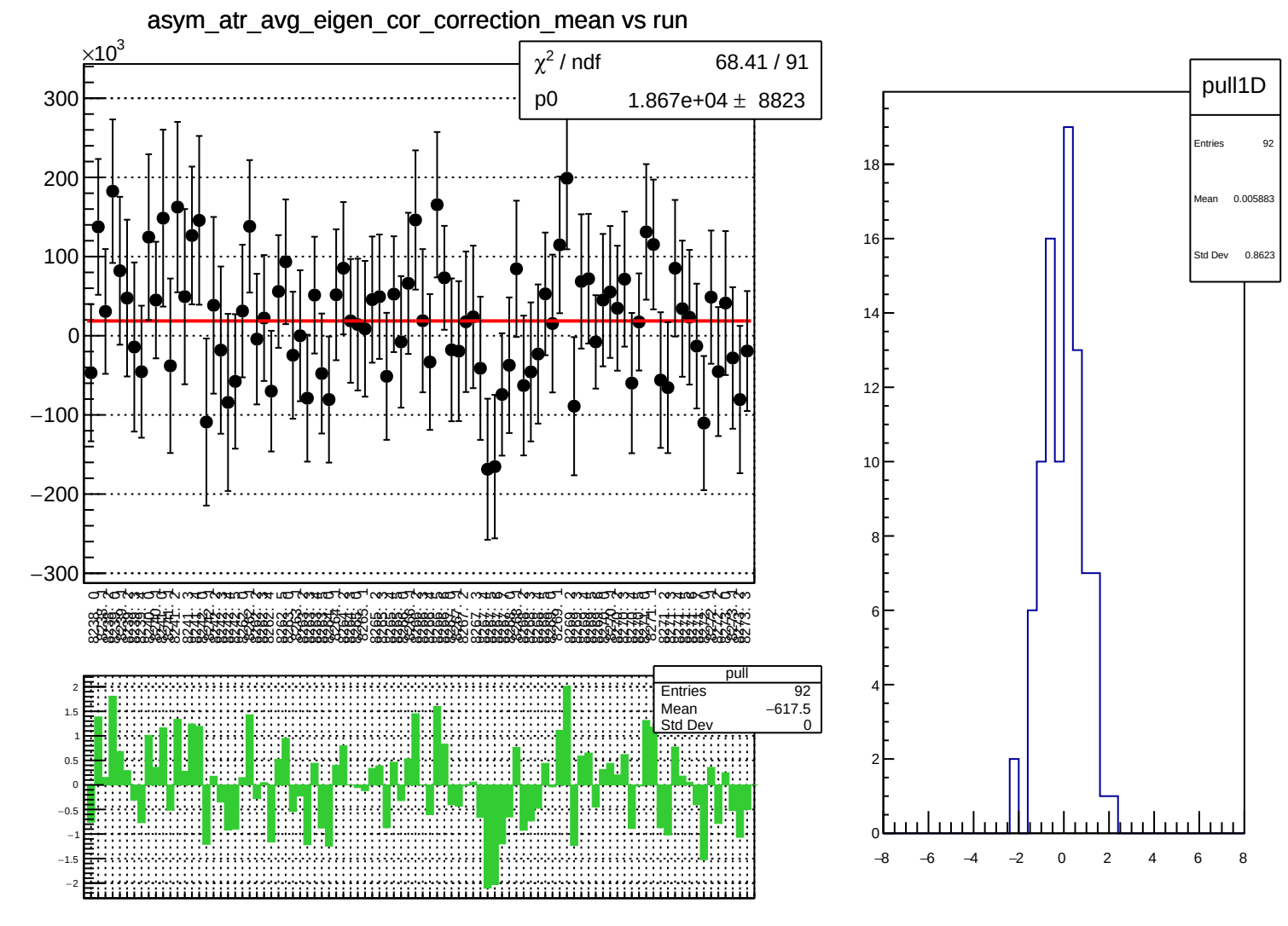

pull1D
Entries 92
Mean 0.005883
Std Dev 0.8623

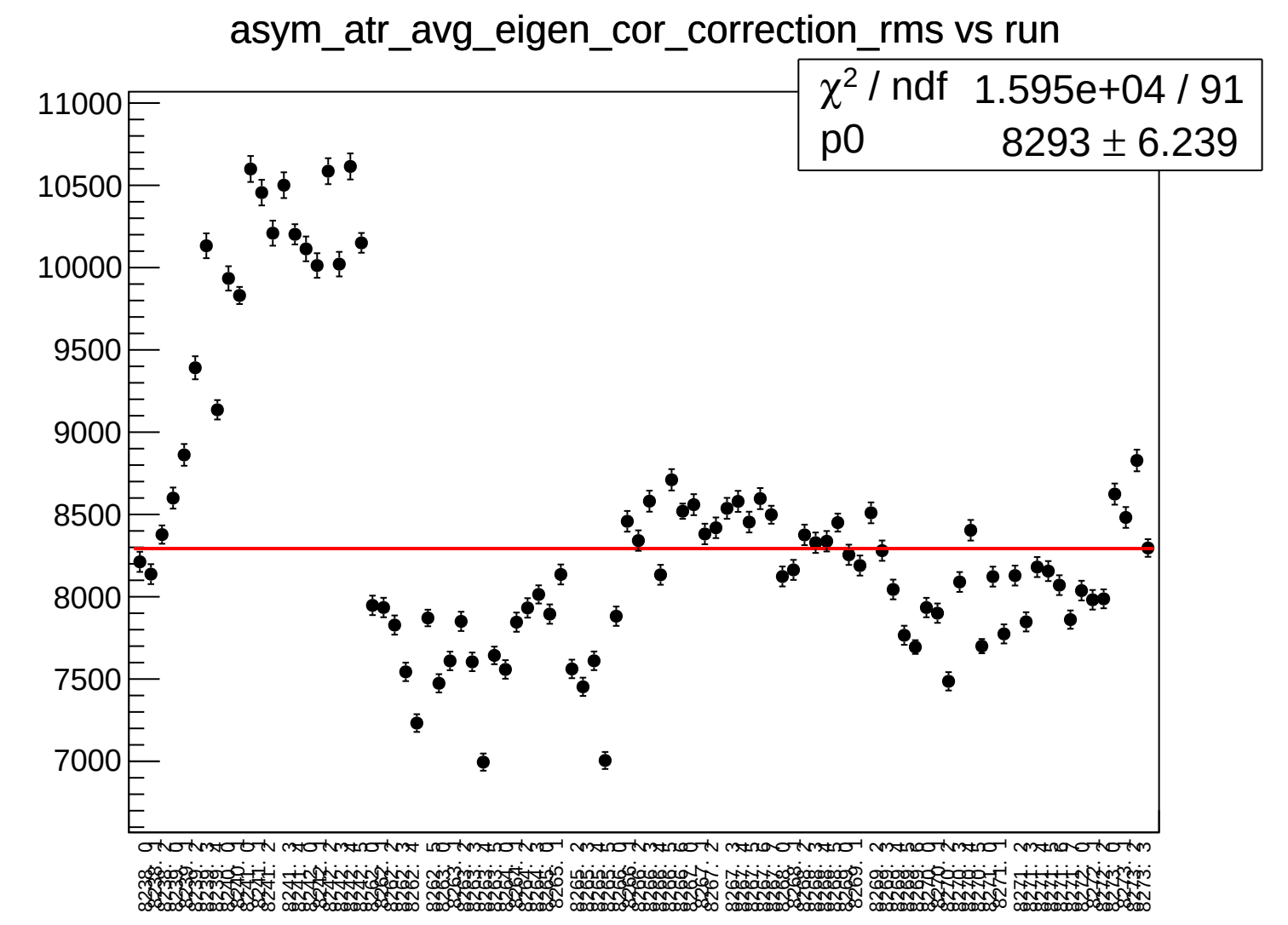

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 1.595e+04 / 91
p0 8293 ± 6.239
11000
10500
10000
9500
9000
8500
8000
7500
7000

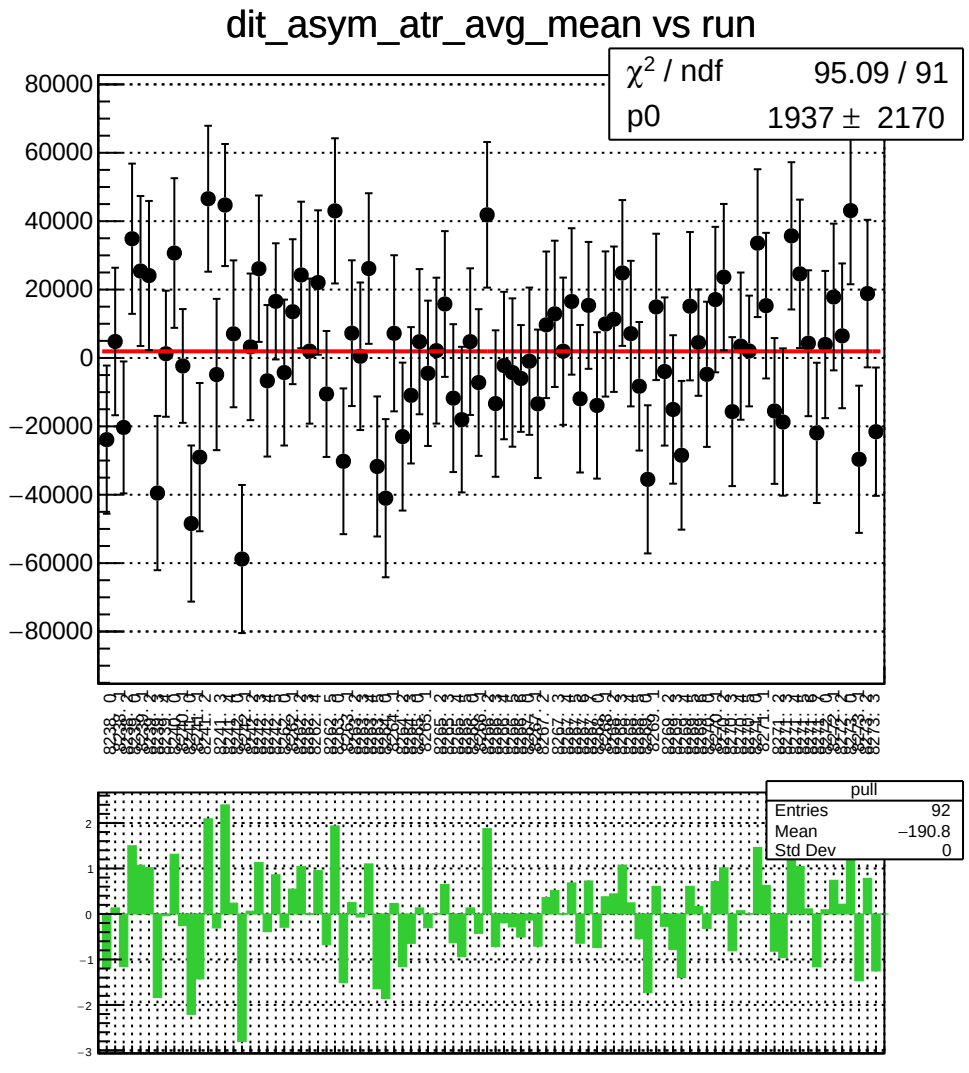

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 91.26 / 91
p0 1710 ± 2158
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −121.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.005137
Std Dev 0.996
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

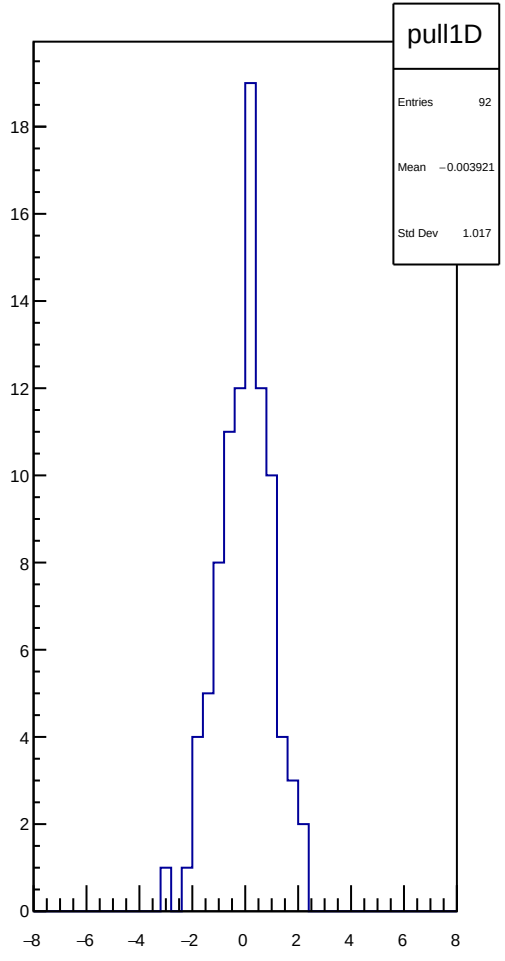
# eigen_cor_asym_atr_avg_rms vs run

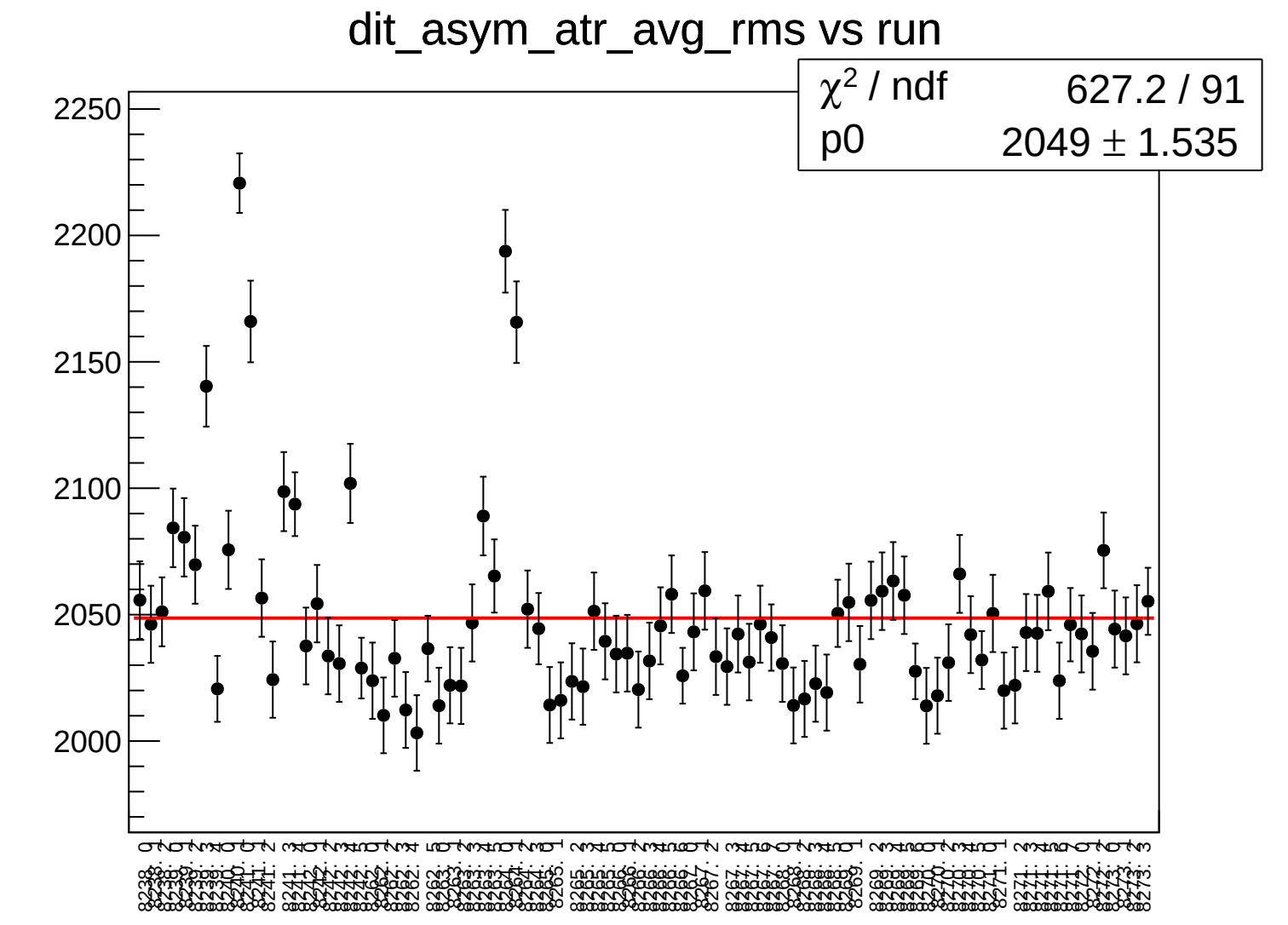


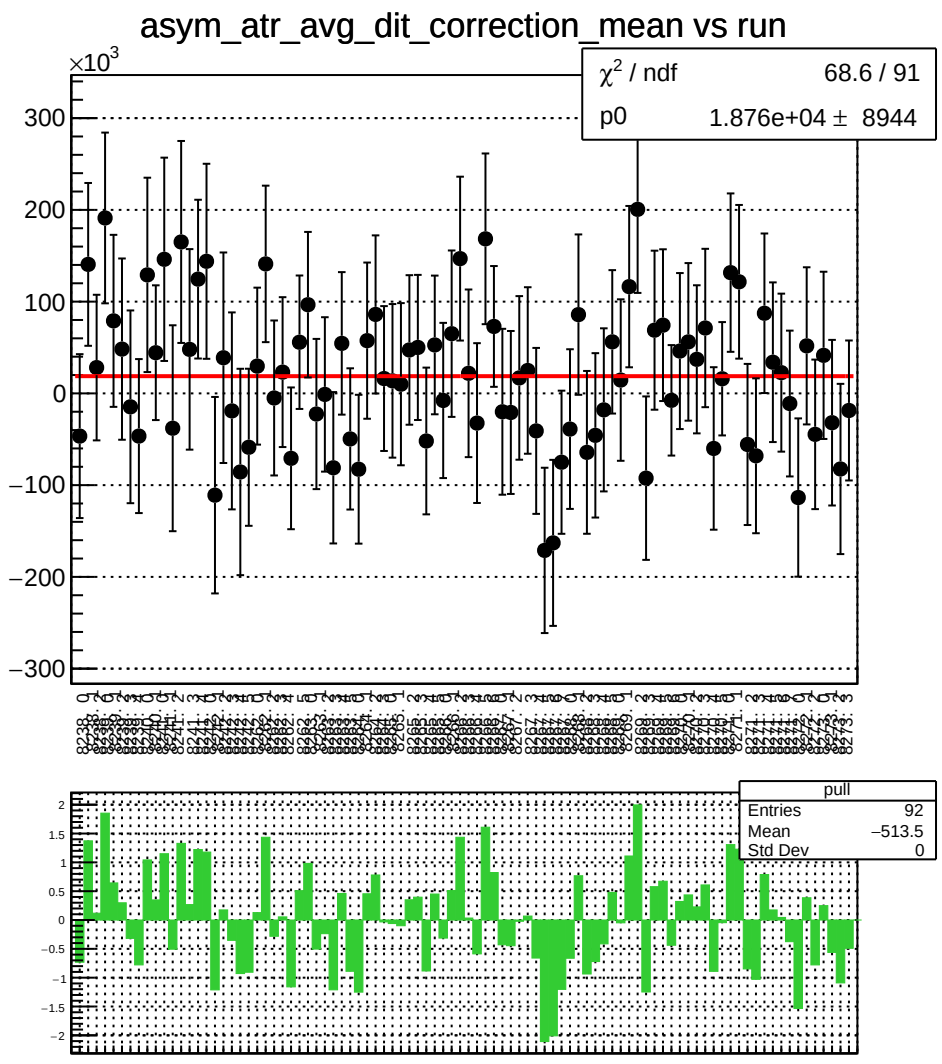

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 68.41 / 91
p0 1.867e+04 ± 8823
pull
Entries 92
Mean −617.5
Std Dev 0
pull1D
Entries 92
Mean 0.005883
Std Dev 0.8623

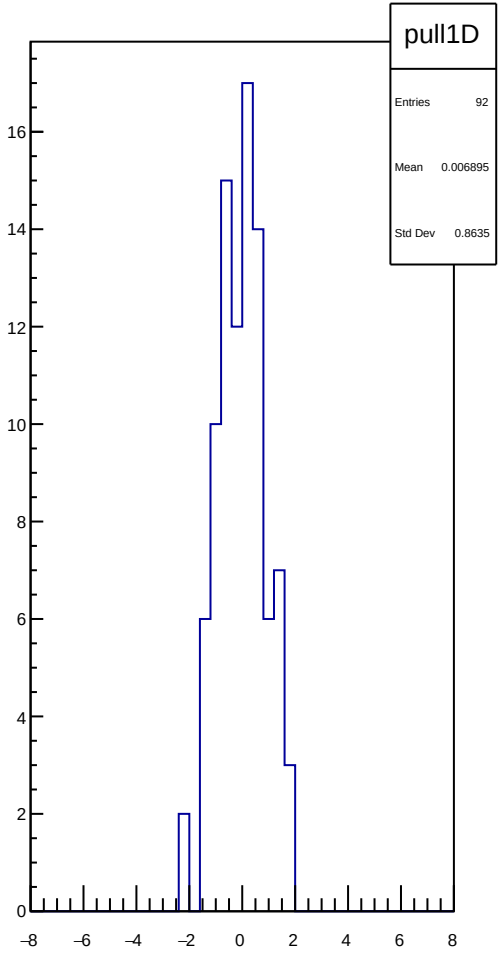

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.595e+04 / 91
p0 8293 ± 6.239
11000
10500
10000
9500
9000
8500
8000
7500
7000

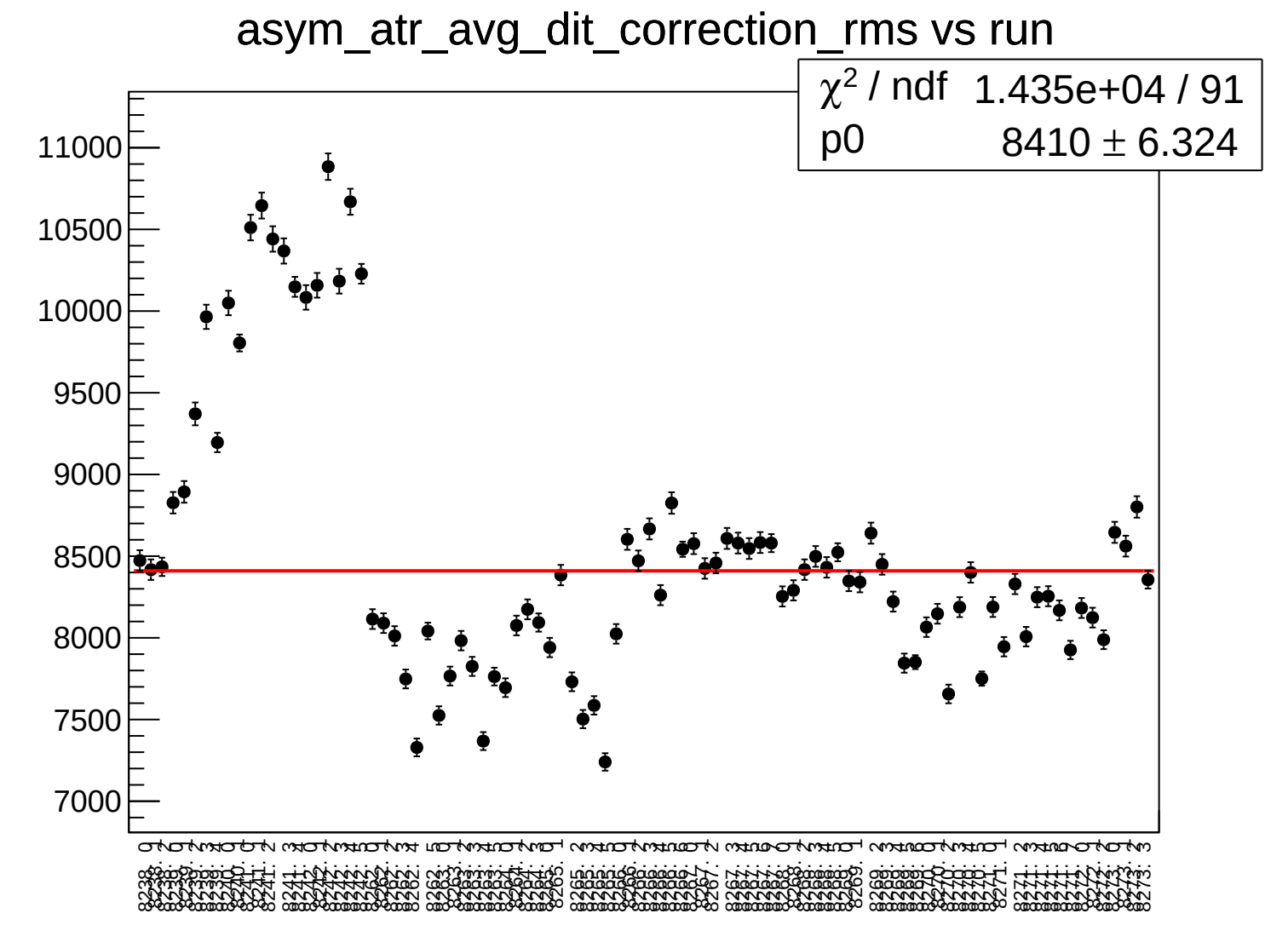

dit_asym_atr_avg_mean vs run
χ² / ndf 95.09 / 91
p0 1937 ± 2170
pull
Entries 92
Mean −190.8
Std Dev 0

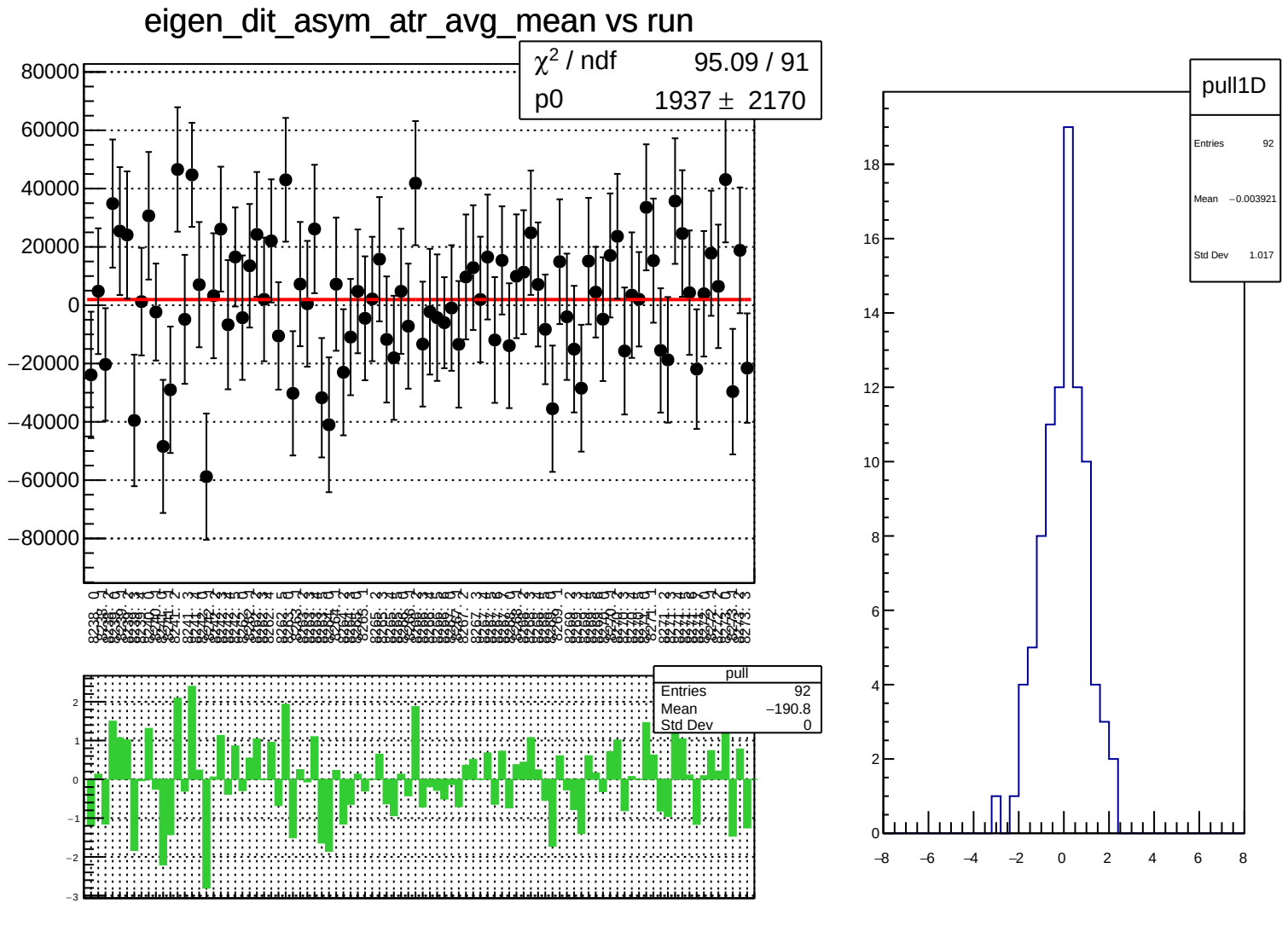

pull1D
Entries 92
Mean −0.003921
Std Dev 1.017

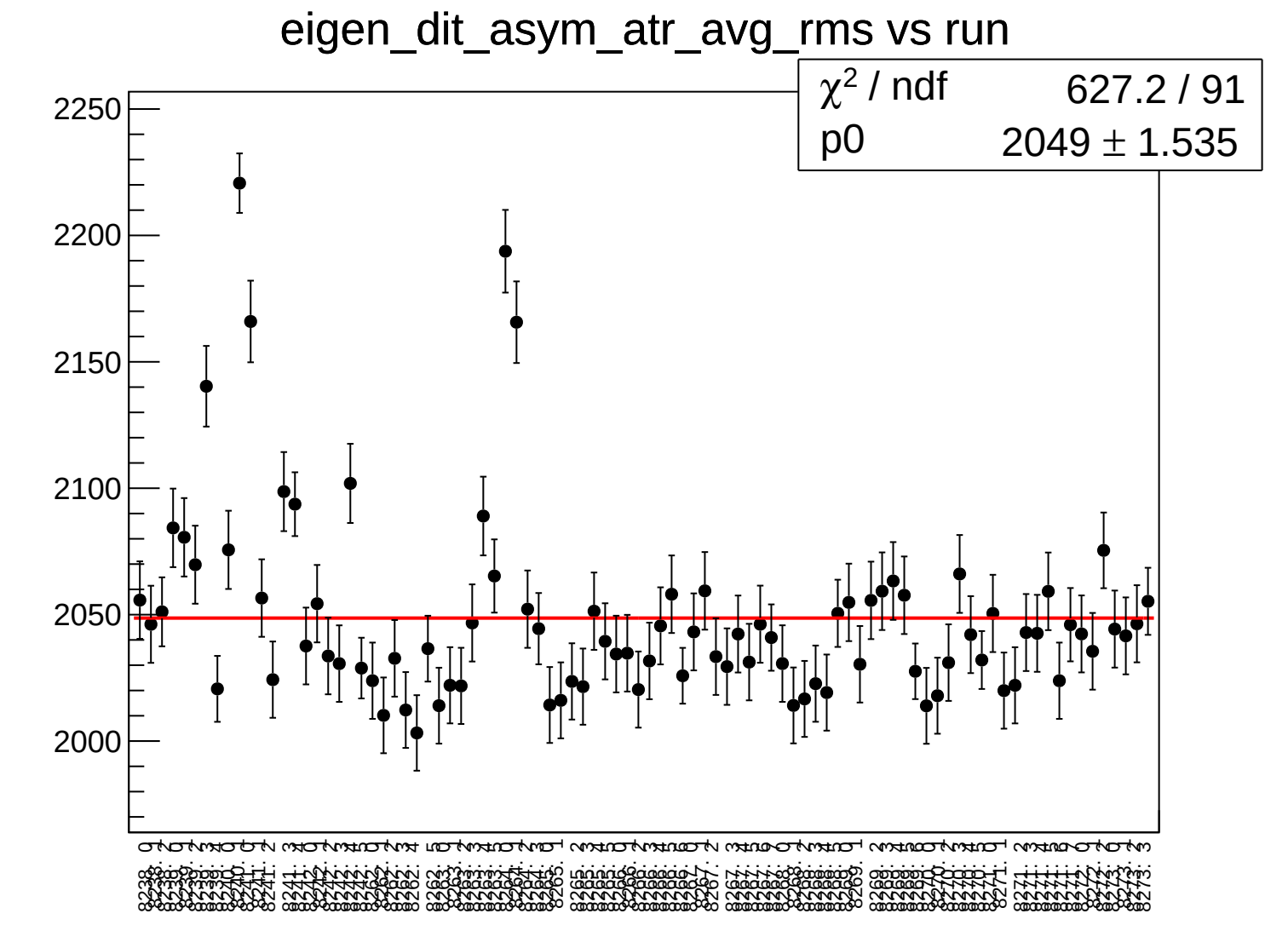

dit_asym_atr_avg_rms vs run
χ² / ndf 627.2 / 91
p0 2049 ± 1.535
2250
2200
2150
2100
2050
2000

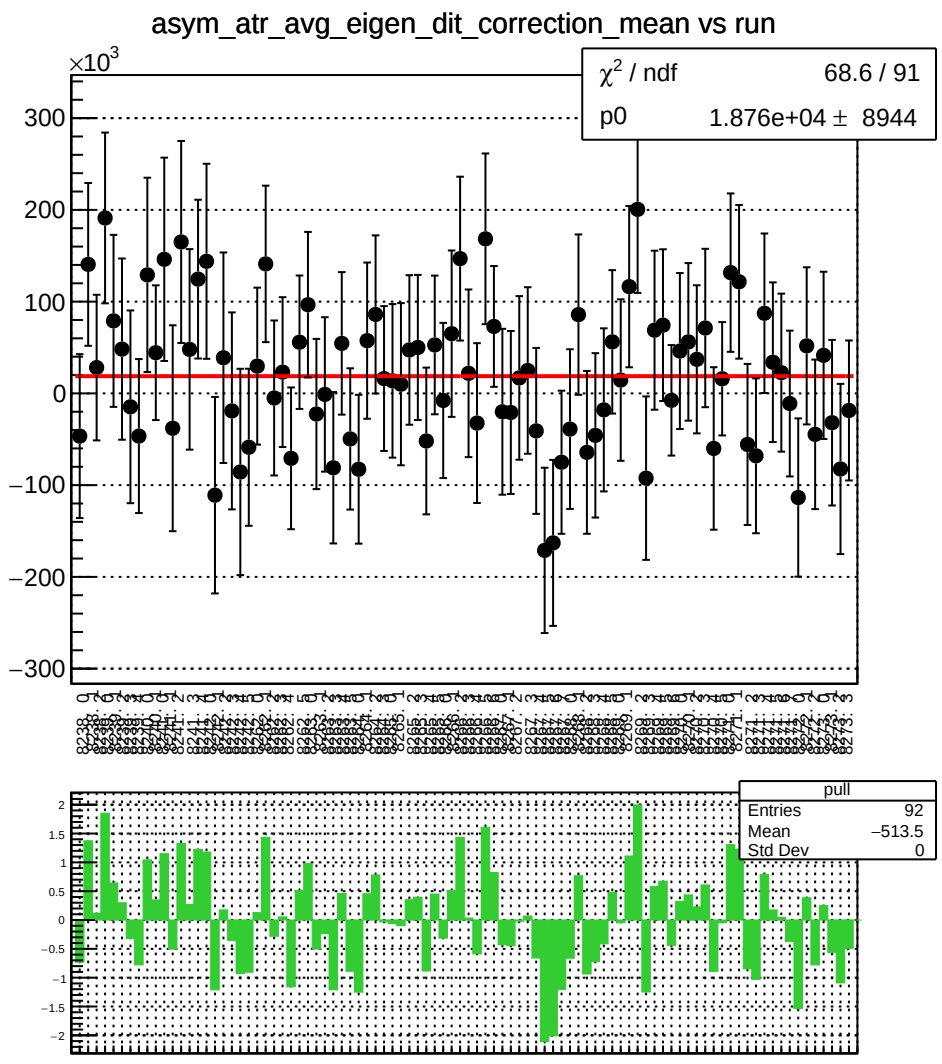

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 68.6 / 91
p0 1.876e+04 ± 8944
pull
Entries 92
Mean −513.5
Std Dev 0

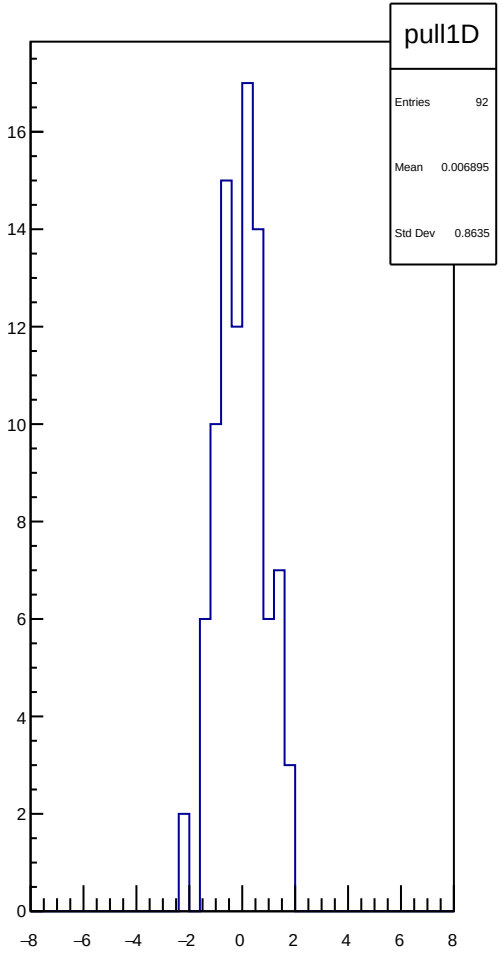

pull1D
Entries 92
Mean 0.006895
Std Dev 0.8635

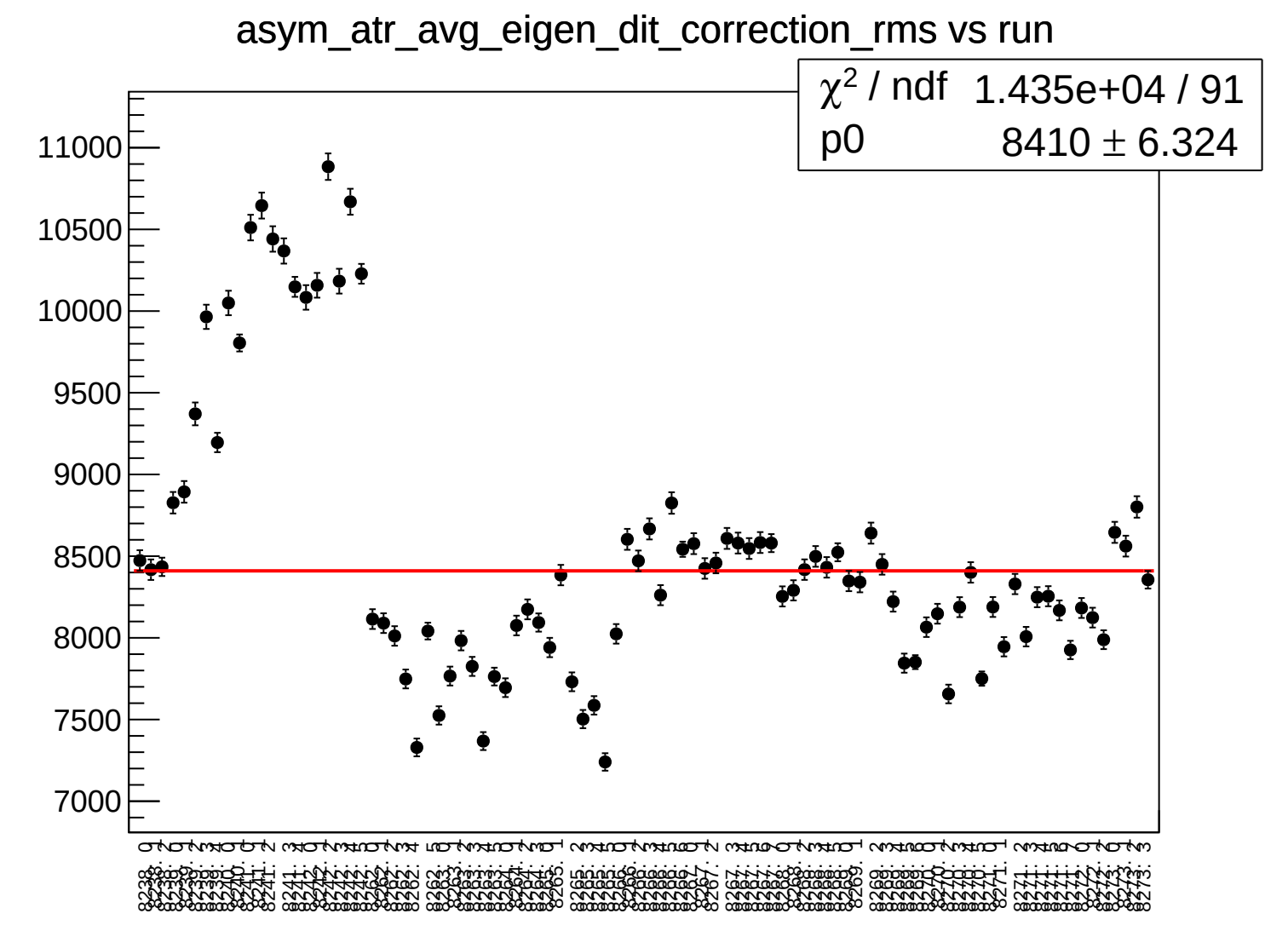

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 1.435e+04 / 91
p0 8410 ± 6.324
11000
10500
10000
9500
9000
8500
8000
7500
7000

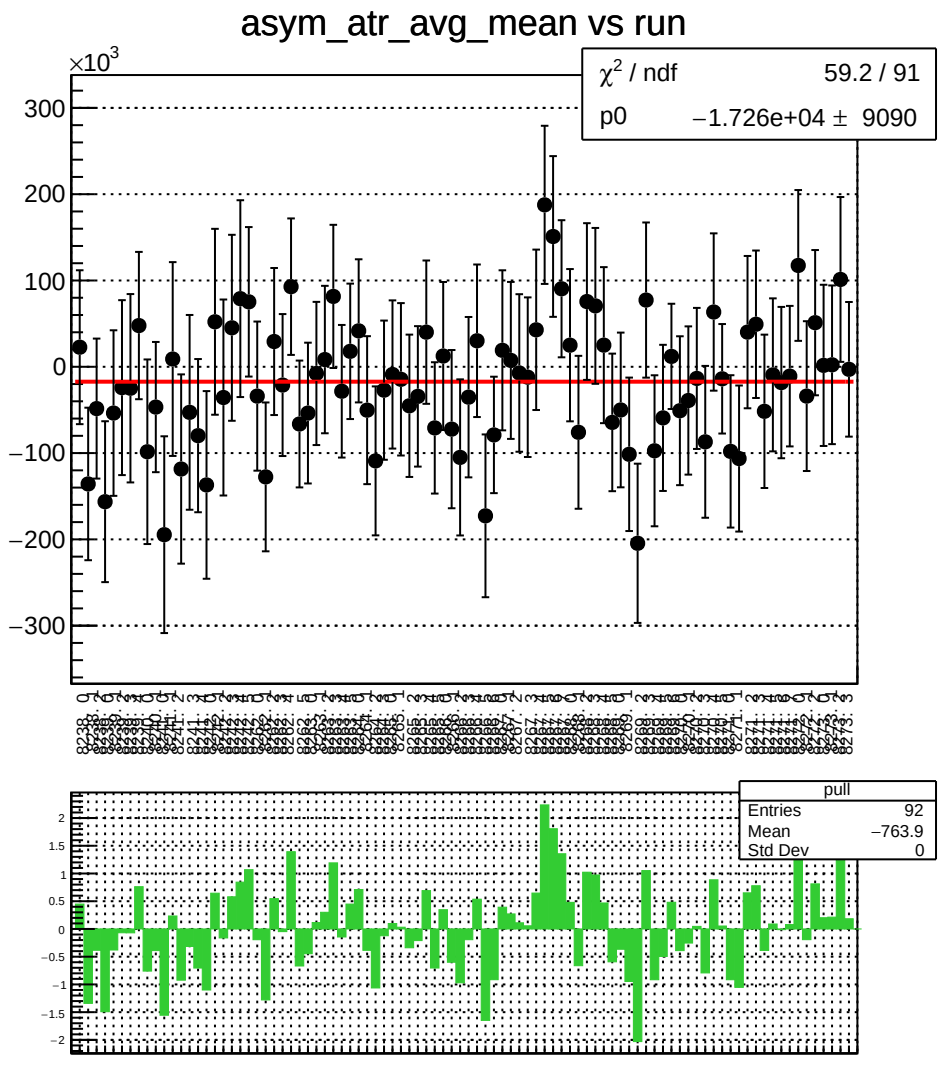

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 95.09 / 91
p0 1937 ± 2170
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −190.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.003921
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

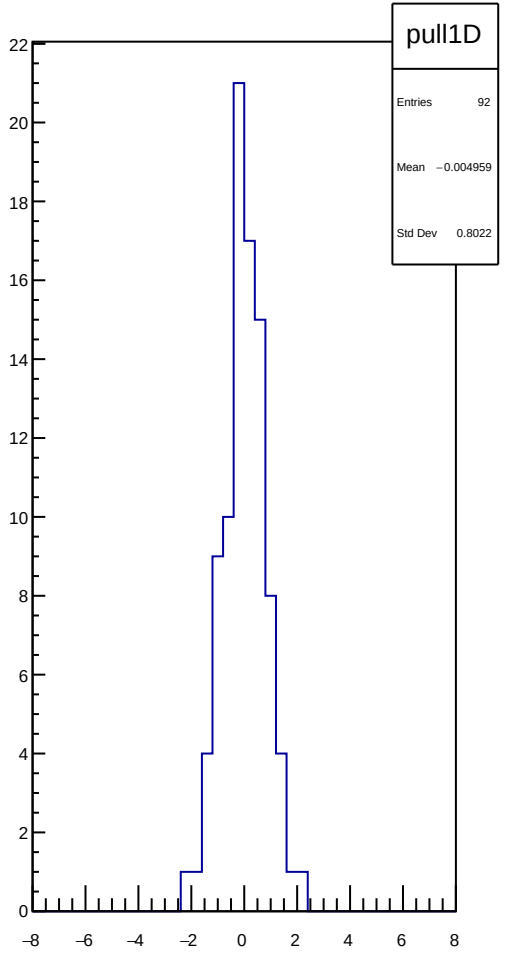

eigen_dit_asym_atr_avg_rms vs run
$\chi^2$ / ndf 627.2 / 91
p0 2049 ± 1.535
2250
2200
2150
2100
2050
2000

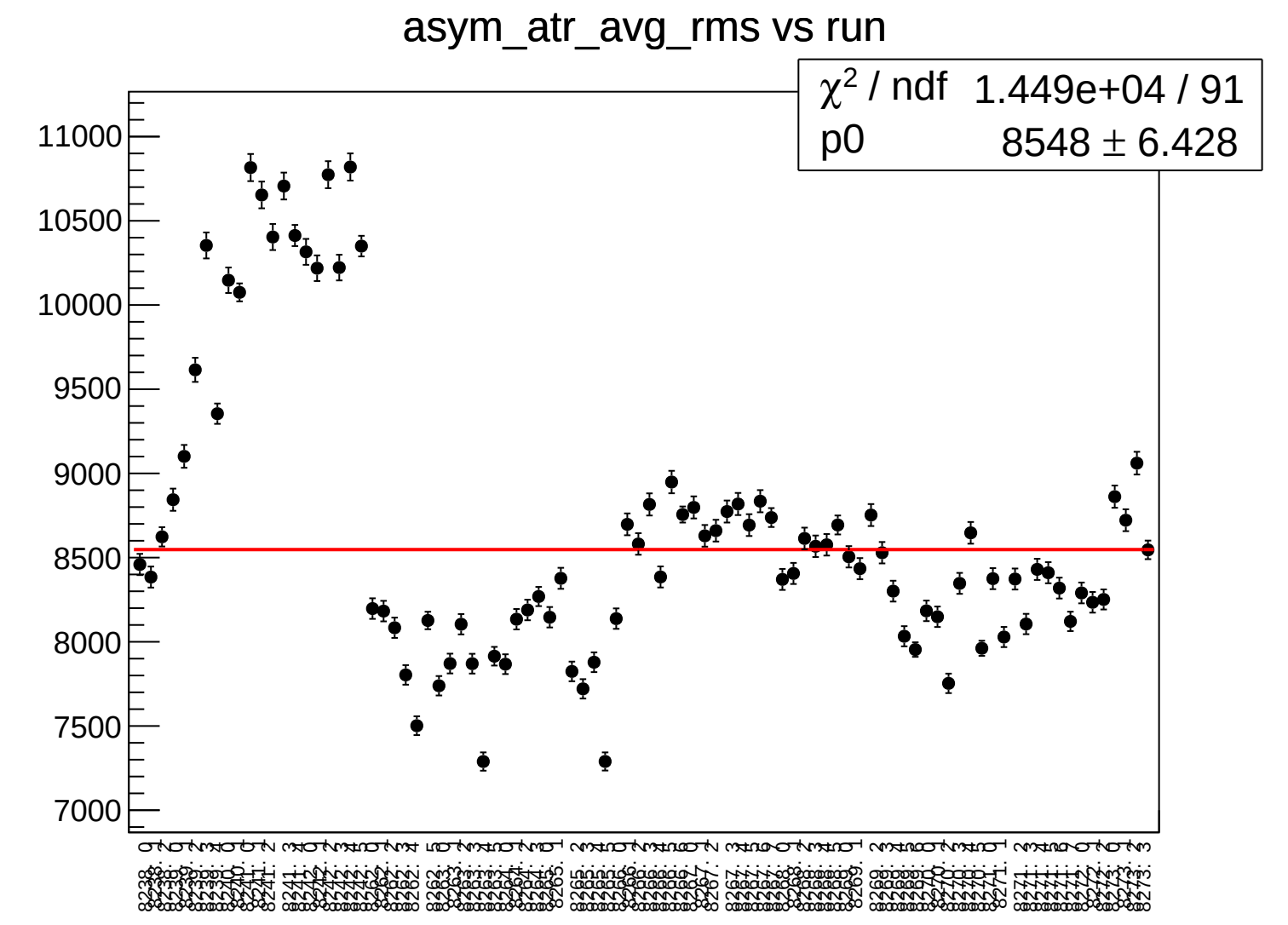

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.6 / 91
p0 1.876e+04 ± 8944
pull
Entries 92
Mean −513.5
Std Dev 0

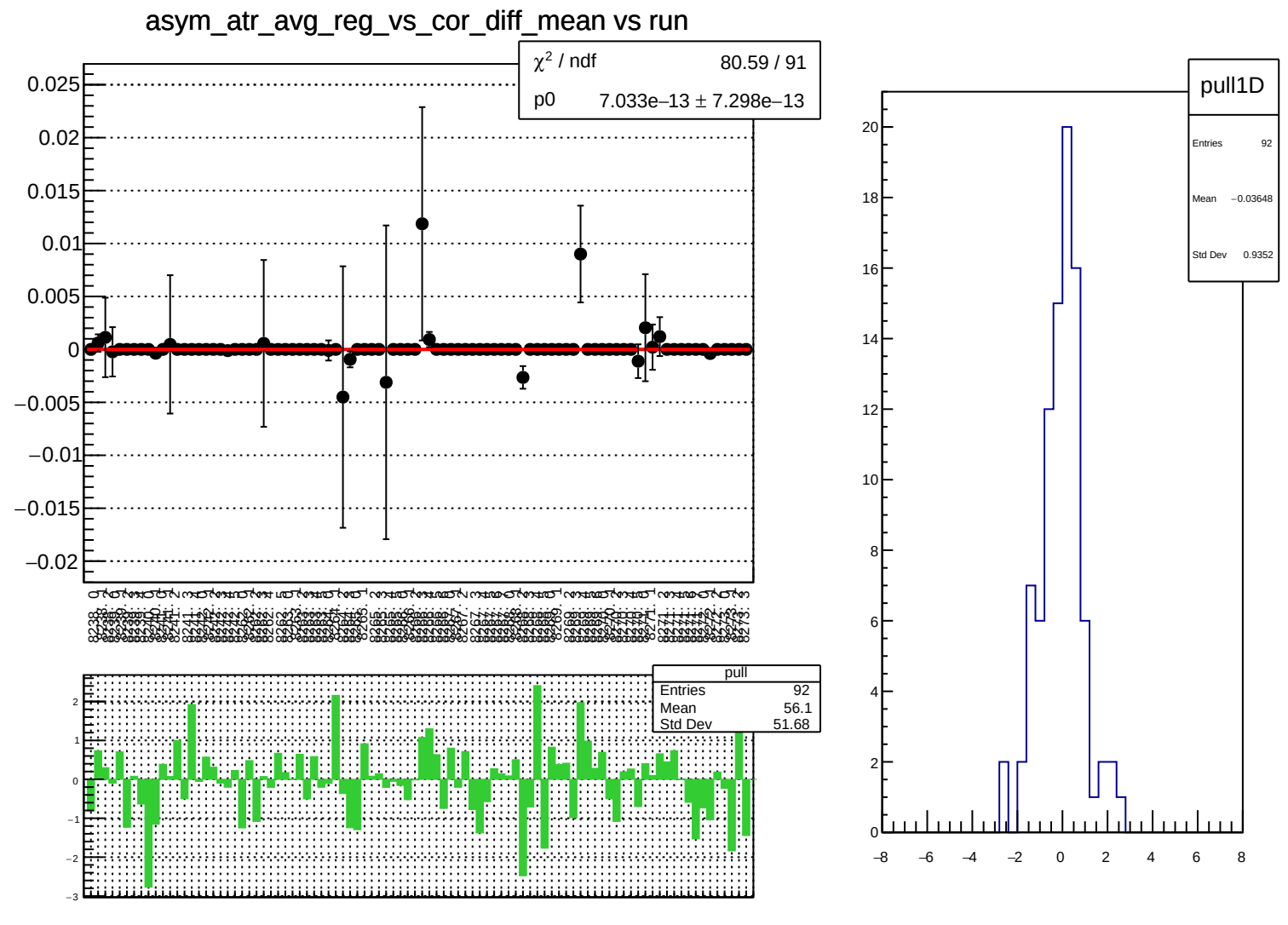

pull1D
Entries 92
Mean 0.006895
Std Dev 0.8635

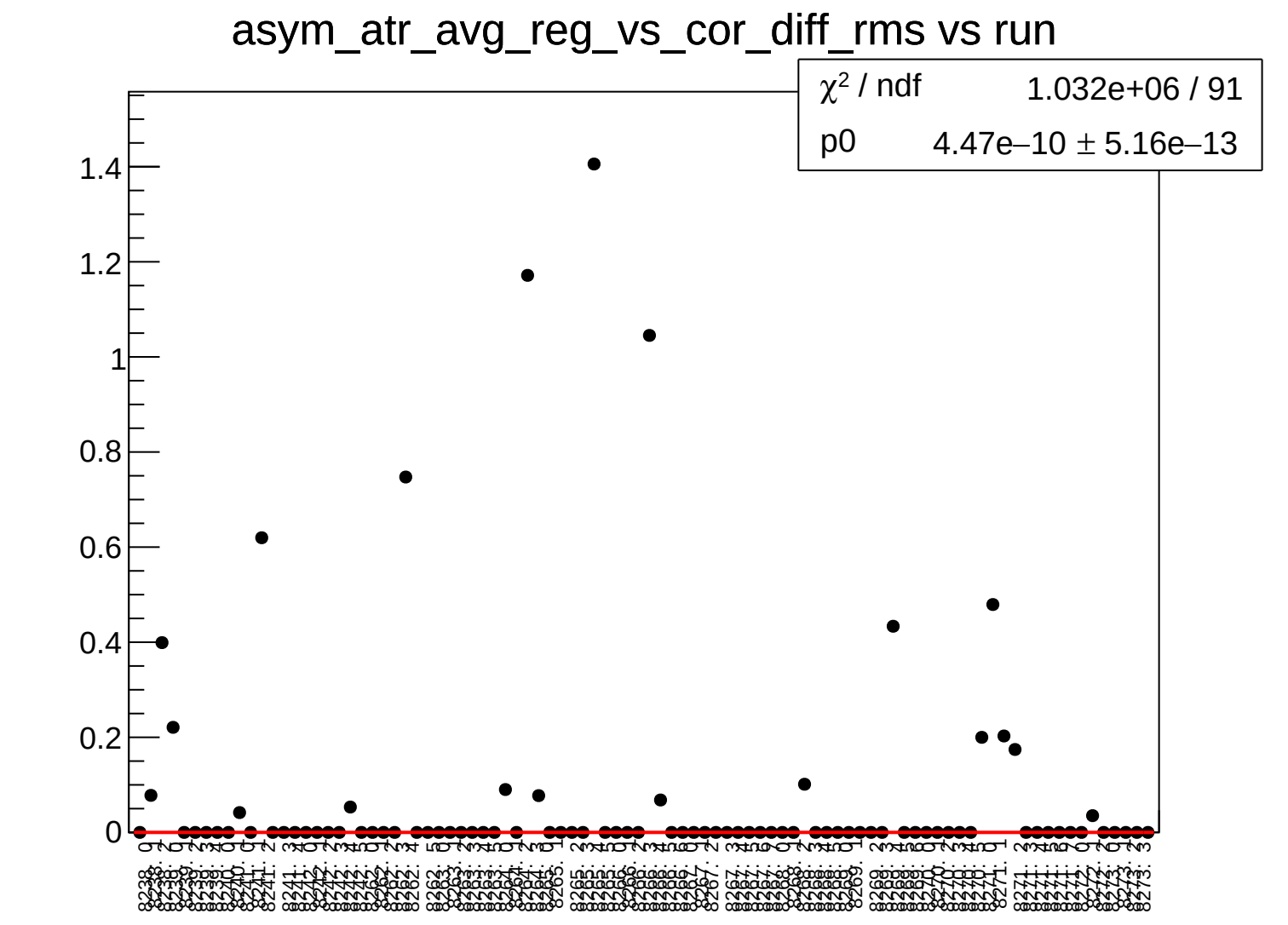

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.435e+04 / 91
p0 8410 ± 6.324
11000
10500
10000
9500
9000
8500
8000
7500
7000

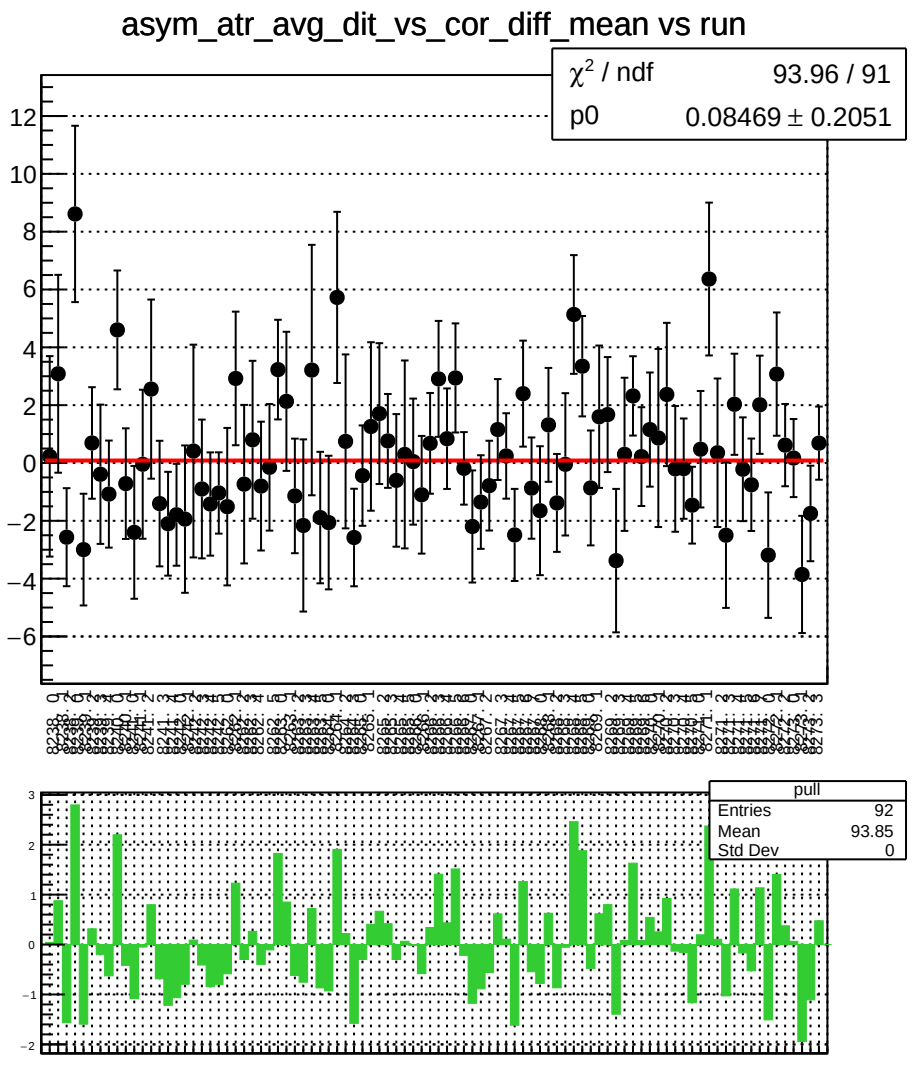

asym_atr_avg_mean vs run
×10^3
χ² / ndf 59.2 / 91
p0 −1.726e+04 ± 9090
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean −763.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

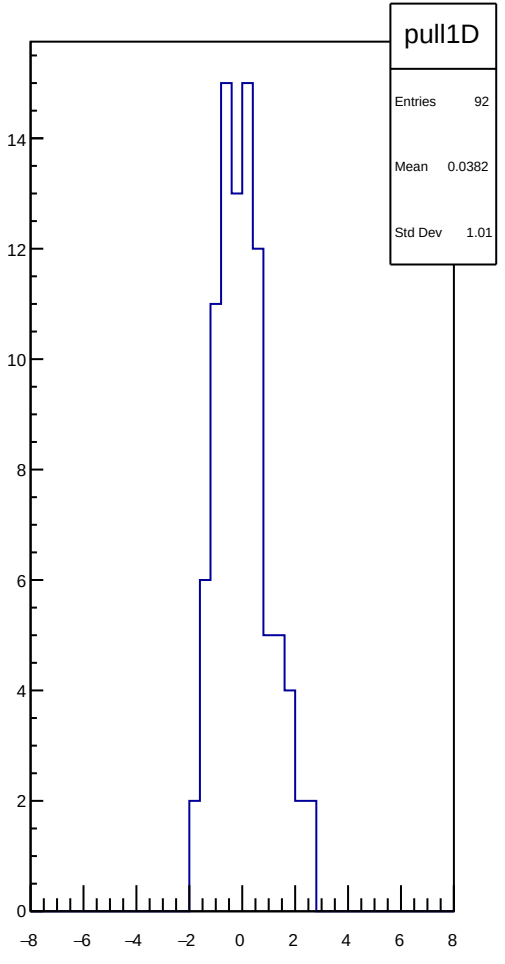

pull1D
Entries 92
Mean −0.004959
Std Dev 0.8022
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

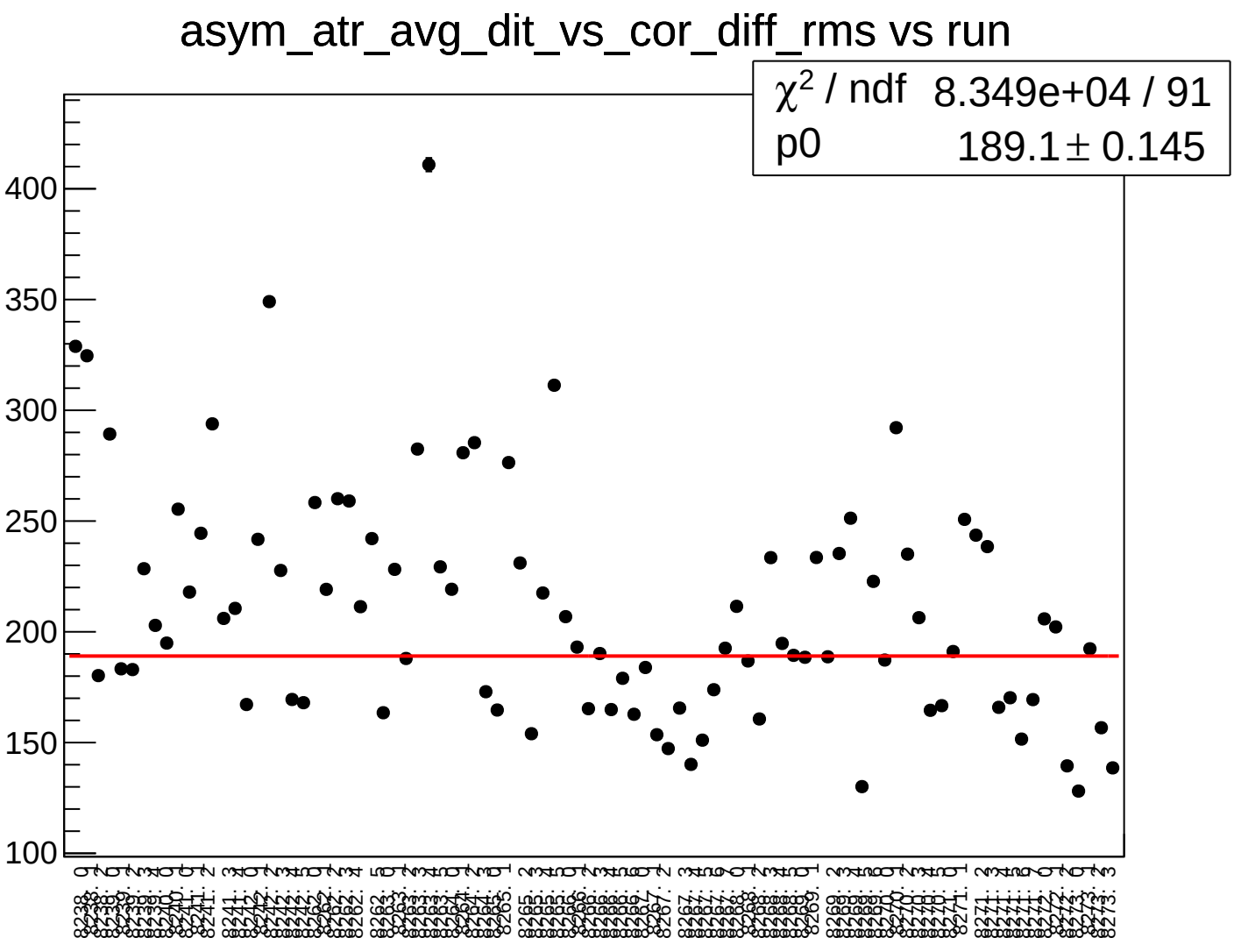

asym_atr_avg_rms vs run
$\chi^2$ / ndf 1.449e+04 / 91
p0 8548 ± 6.428
11000
10500
10000
9500
9000
8500
8000
7500
7000

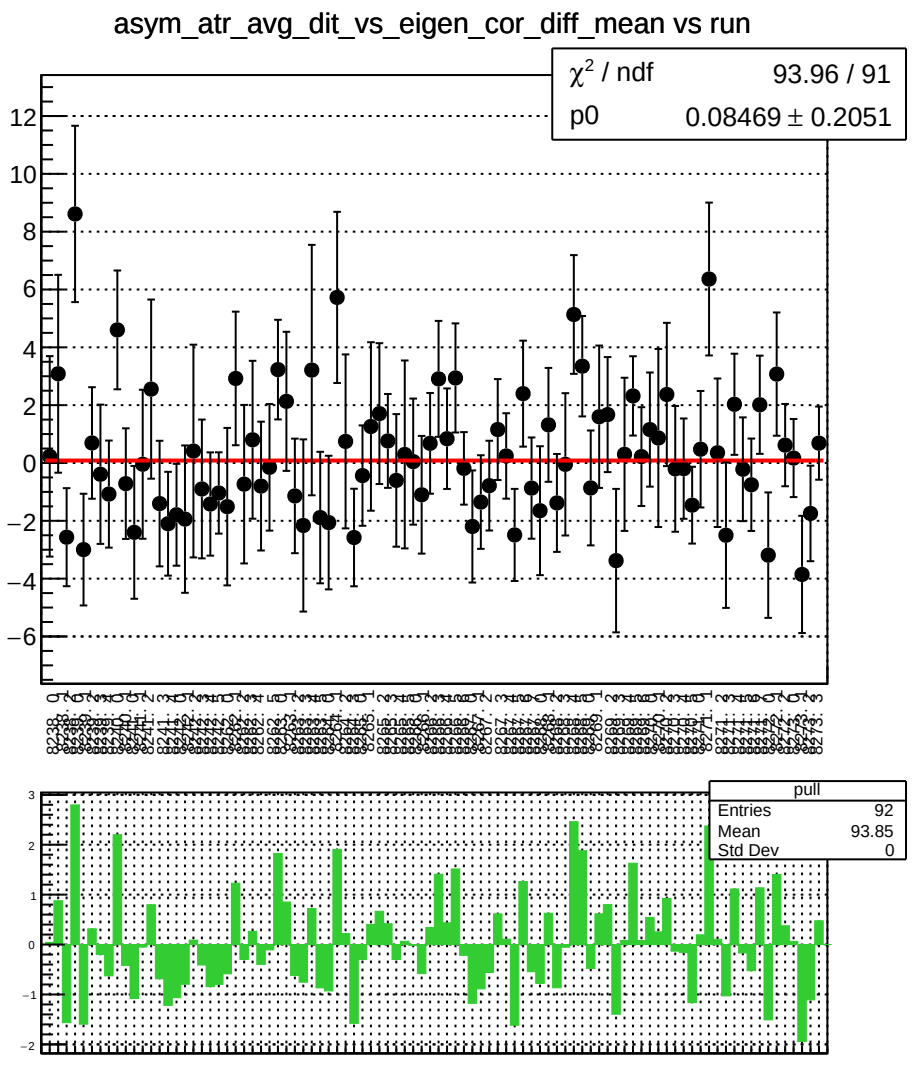

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.59 / 91
p0 7.033e−13 ± 7.298e−13
pull
Entries 92
Mean 56.1
Std Dev 51.68
pull1D
Entries 92
Mean −0.03648
Std Dev 0.9352

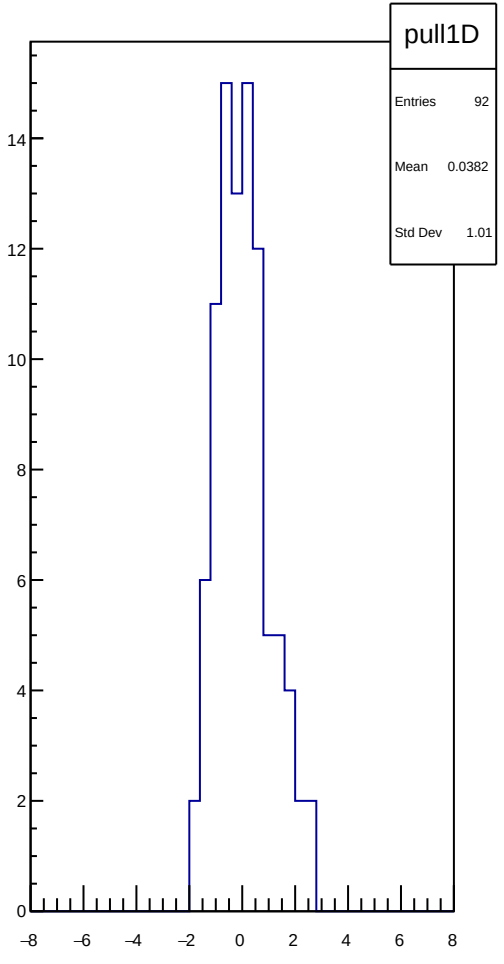

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.032e+06 / 91
p0 4.47e−10 ± 5.16e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

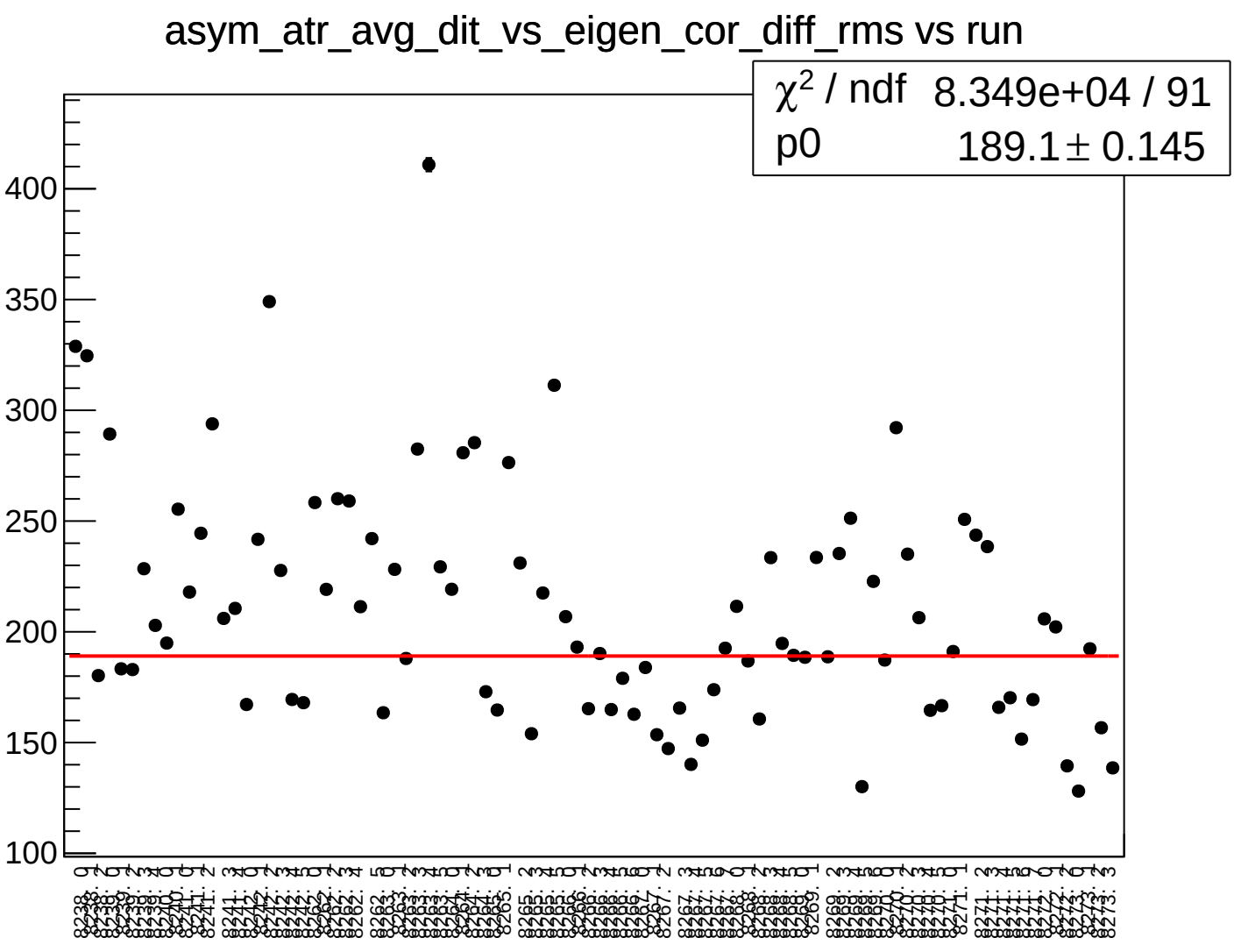

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.96 / 91
p0 0.08469 ± 0.2051
pull
Entries 92
Mean 93.85
Std Dev 0

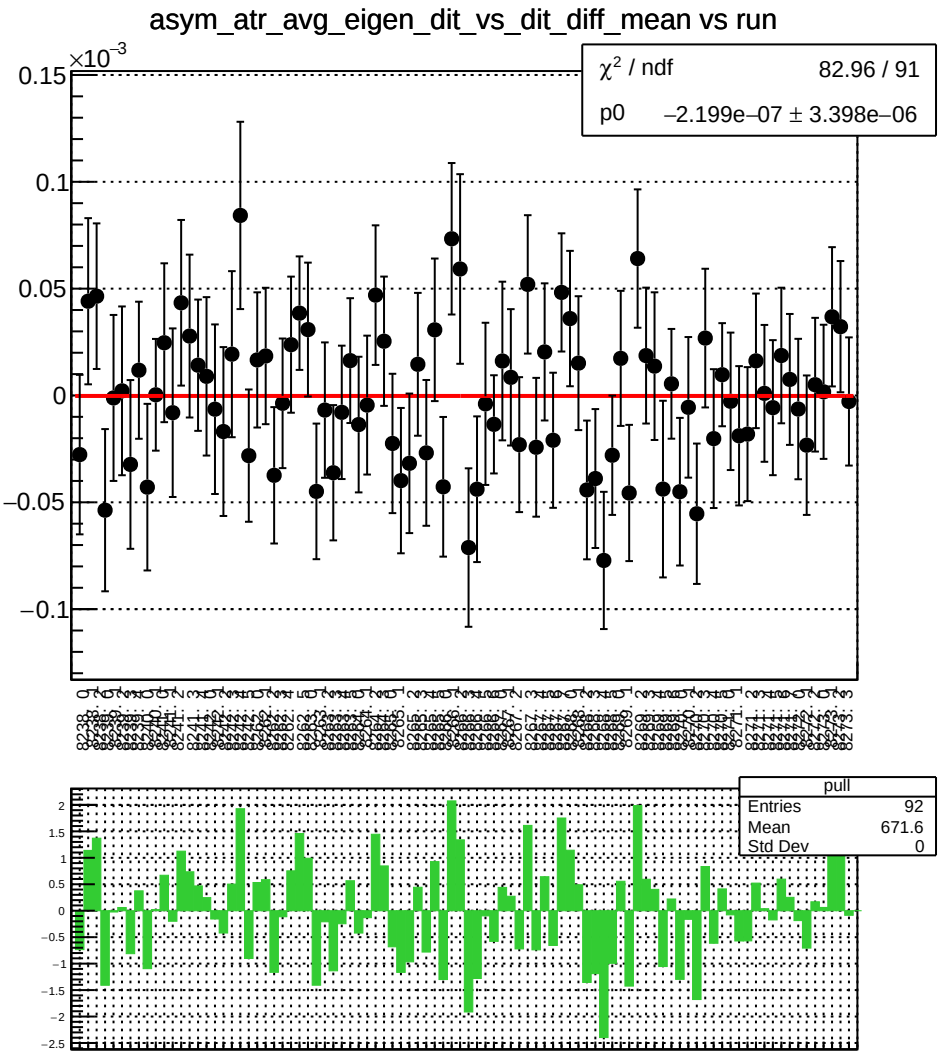

pull1D
Entries 92
Mean 0.0382
Std Dev 1.01

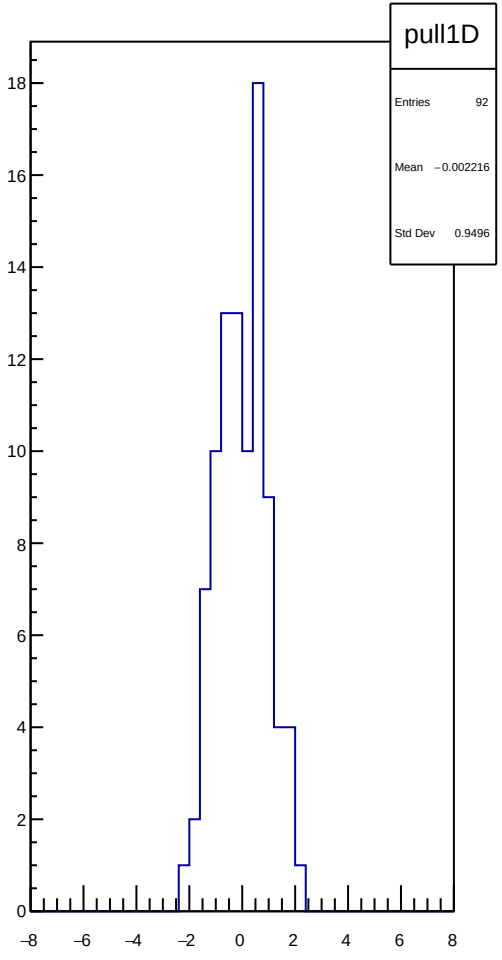

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.349e+04 / 91
p0 189.1 ± 0.145
400
350
300
250
200
150
100

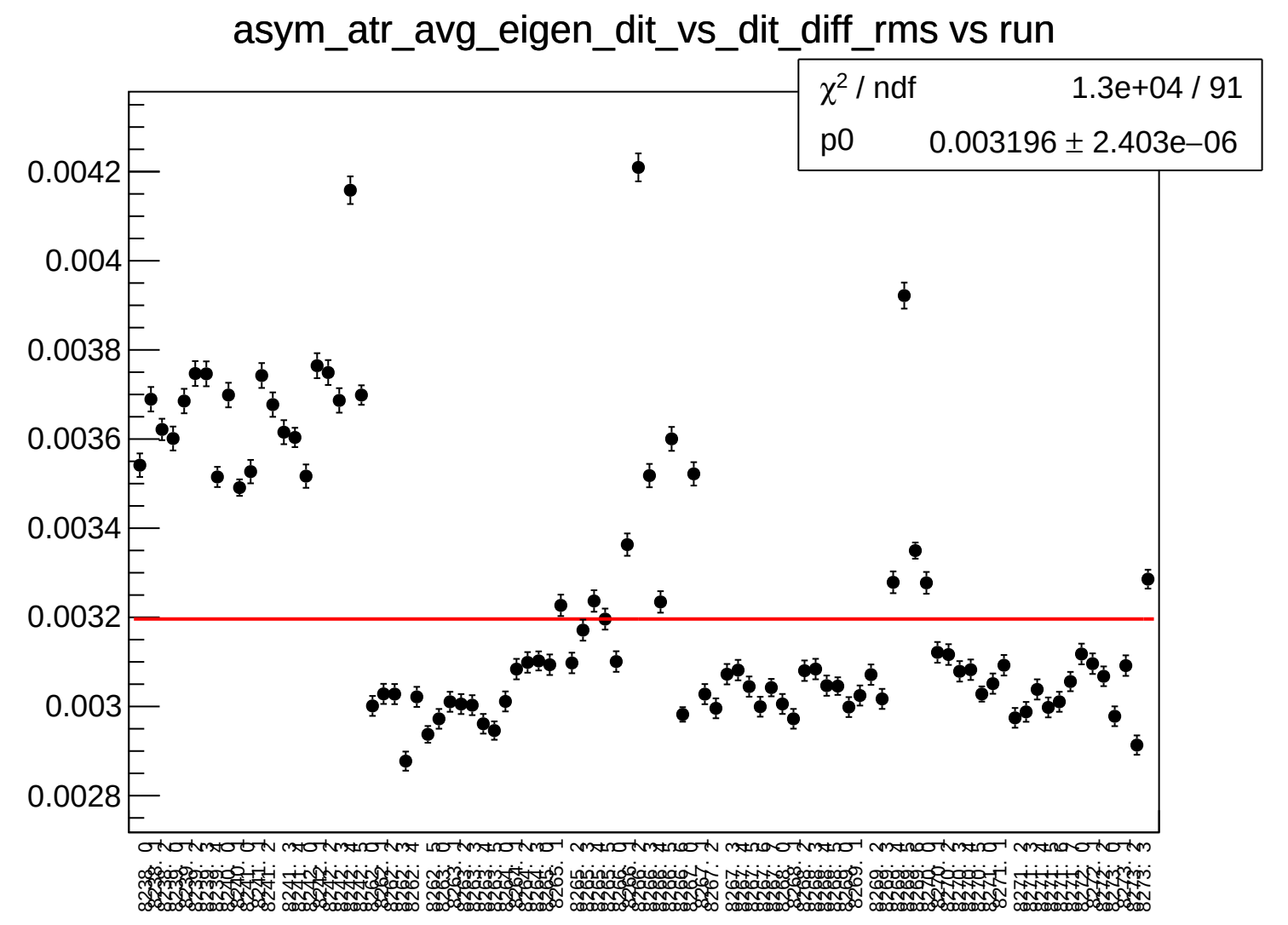

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.96 / 91
p0 0.08469 ± 0.2051
pull
Entries 92
Mean 93.85
Std Dev 0

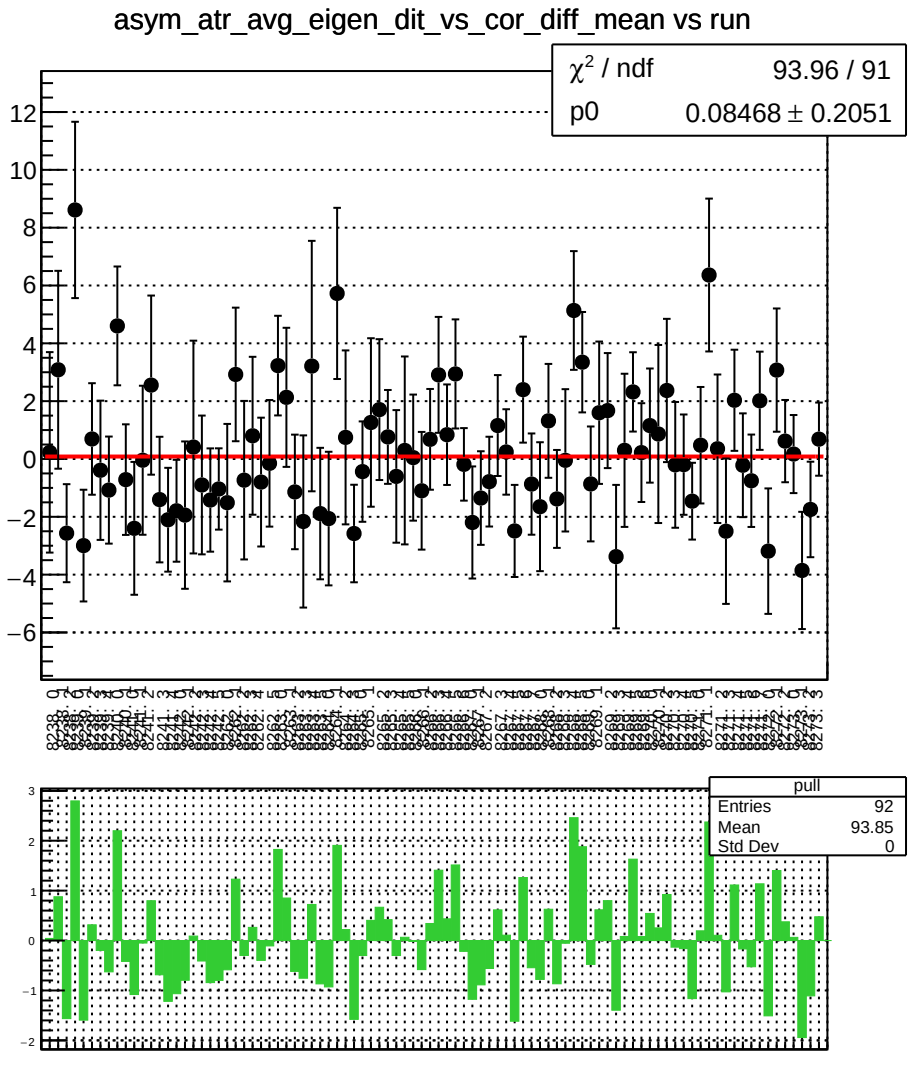

pull1D
Entries 92
Mean 0.0382
Std Dev 1.01

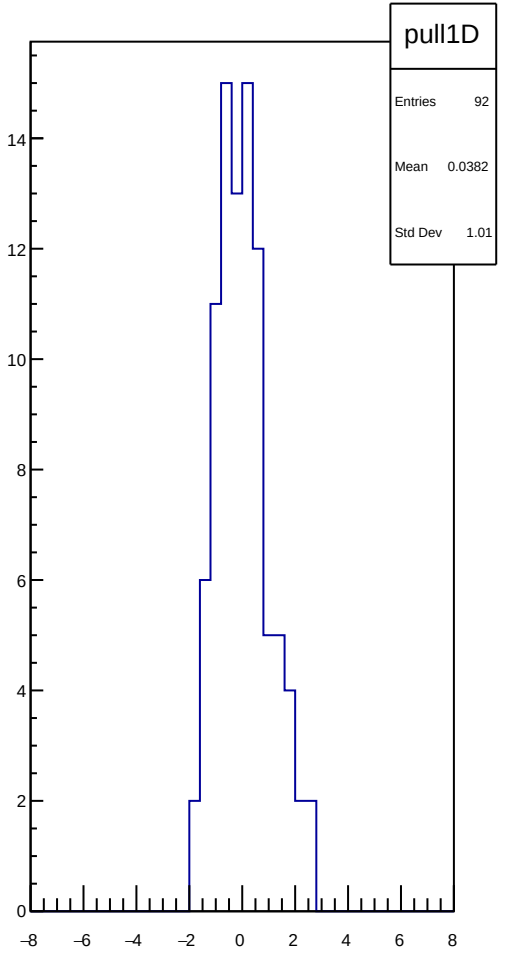

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.349e+04 / 91
p0 189.1 ± 0.145
400
350
300
250
200
150
100

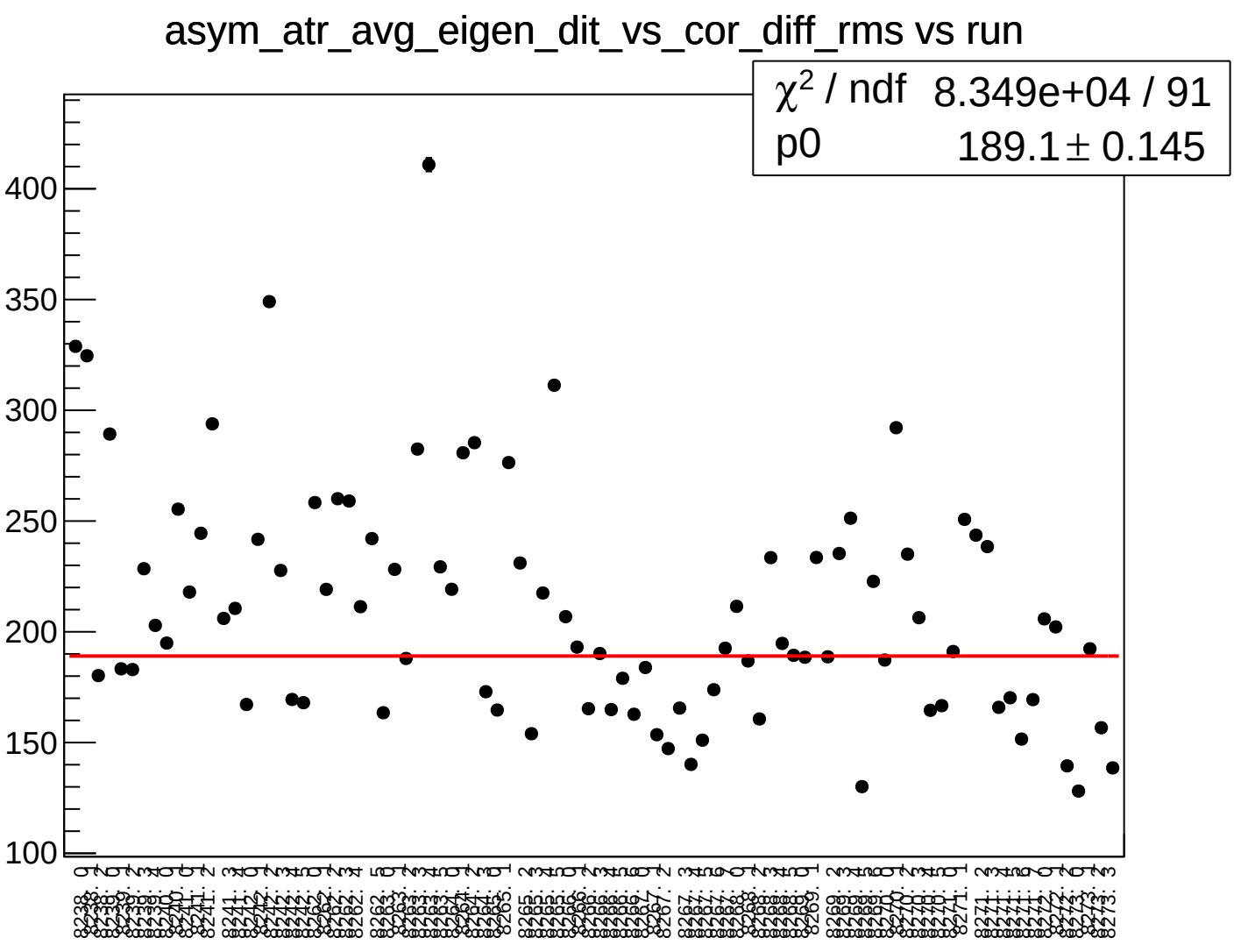

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.96 / 91
p0 −2.199e−07 ± 3.398e−06
pull
Entries 92
Mean 671.6
Std Dev 0

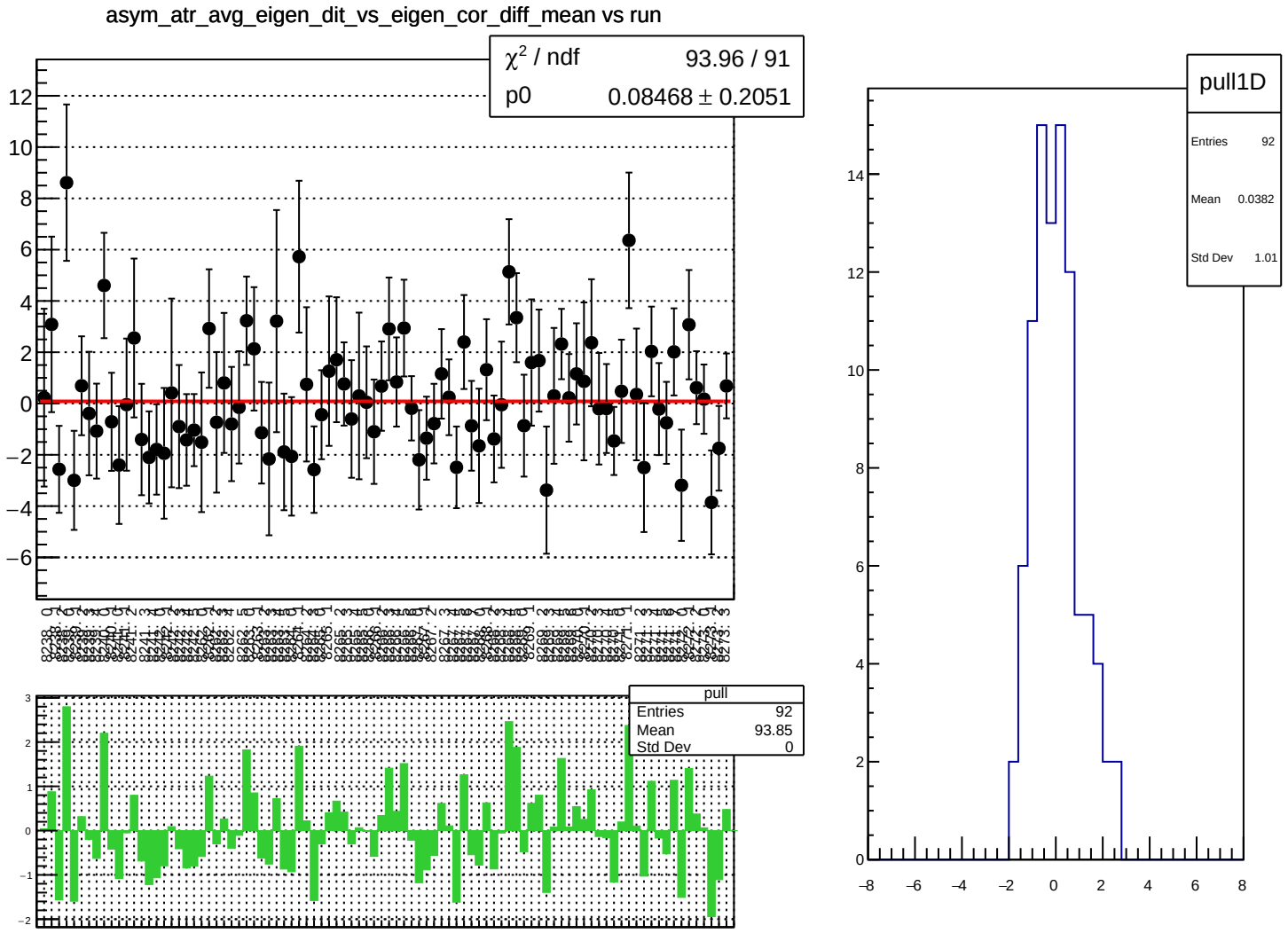

pull1D
Entries 92
Mean −0.002216
Std Dev 0.9496

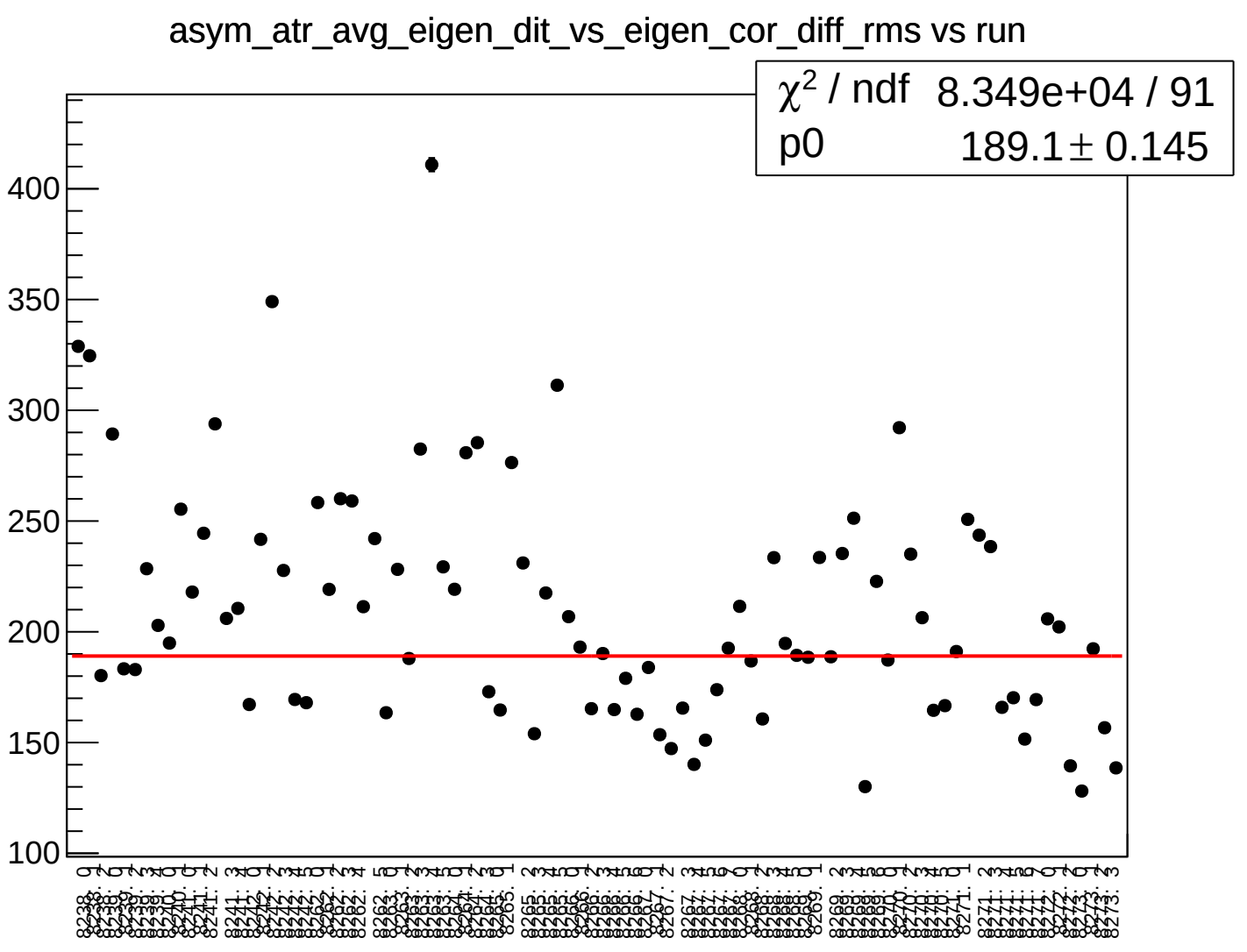

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.3e+04 / 91
p0 0.003196 ± 2.403e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

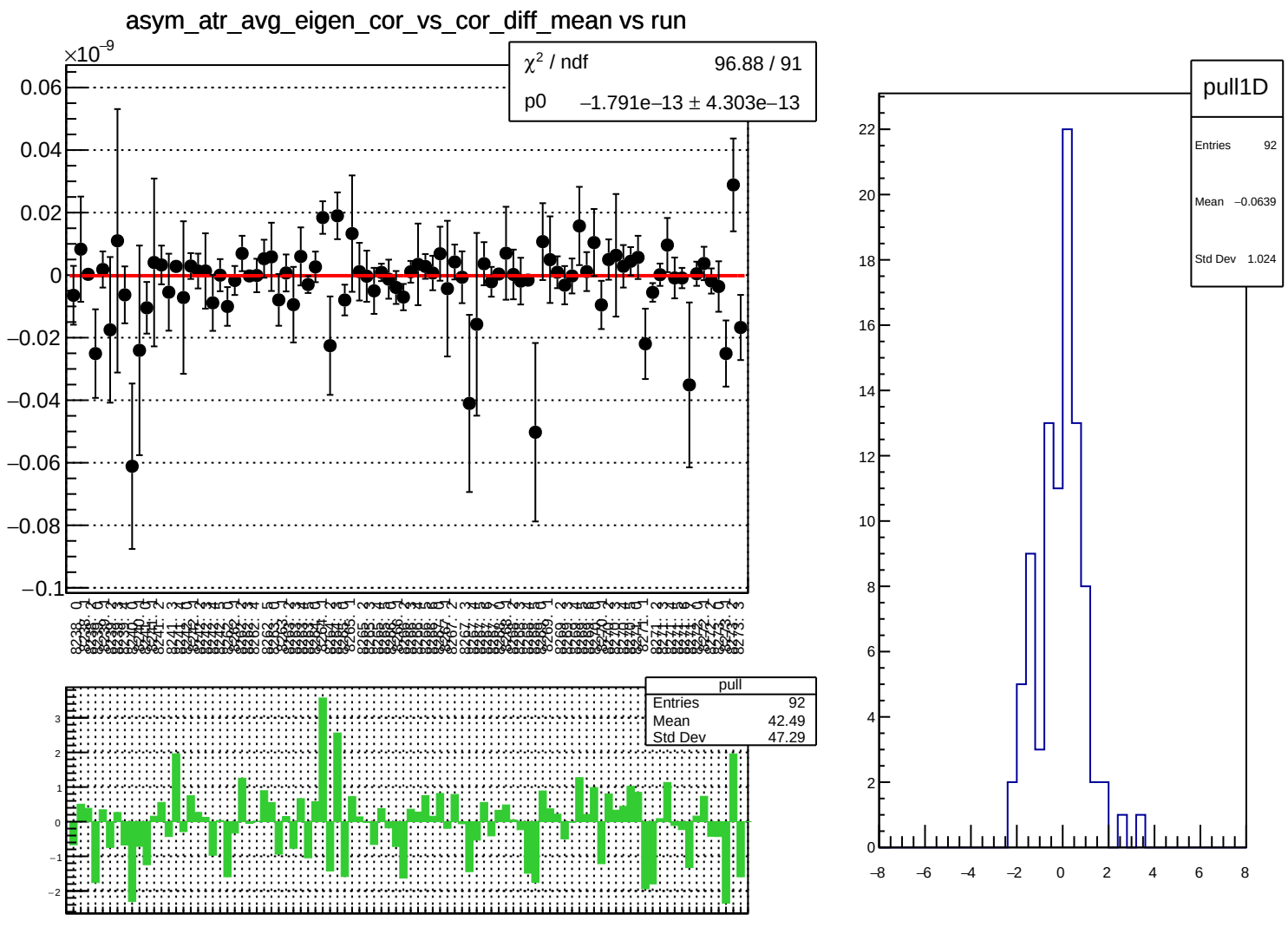

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.96 / 91
p0 0.08468 ± 0.2051
pull
Entries 92
Mean 93.85
Std Dev 0

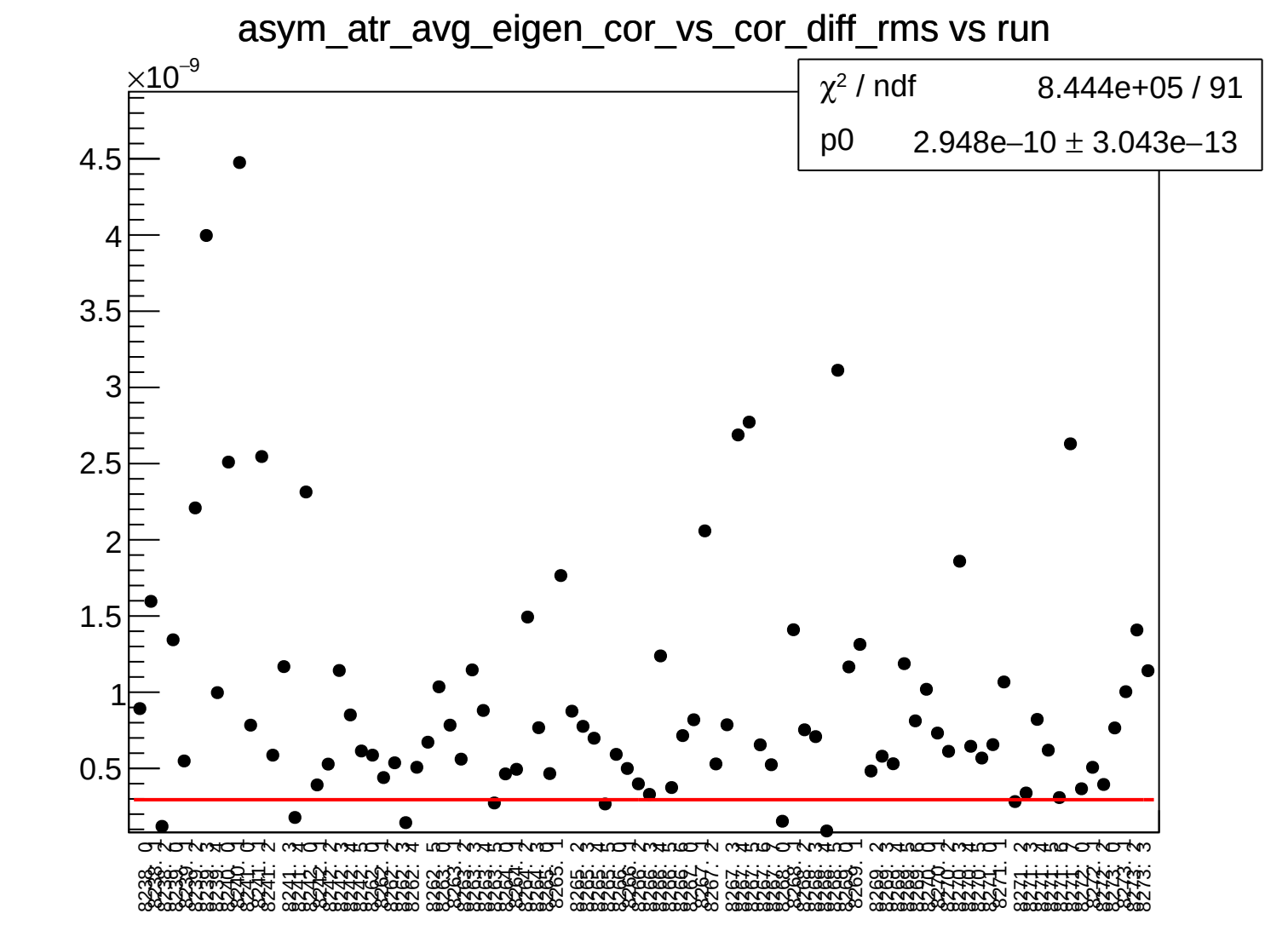

pull1D
Entries 92
Mean 0.0382
Std Dev 1.01

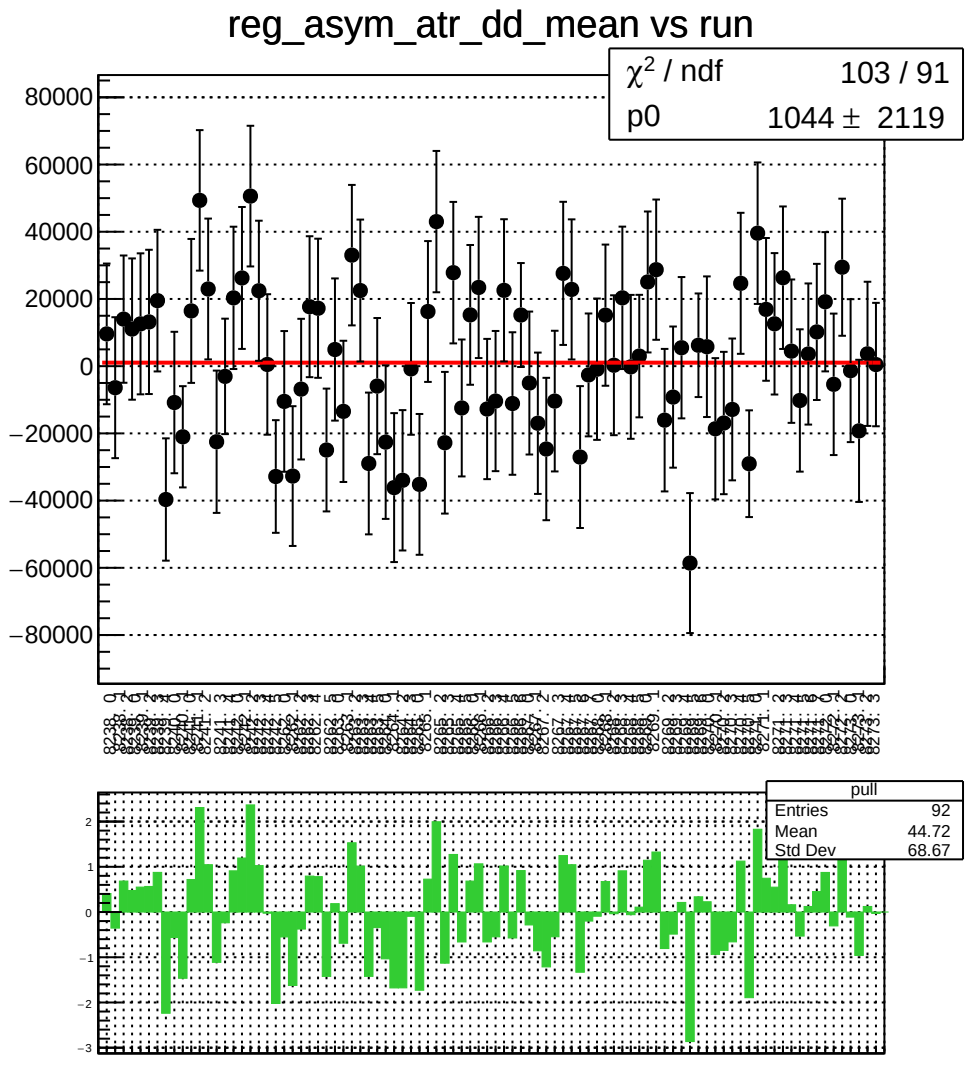

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.349e+04 / 91
p0 189.1 ± 0.145
400
350
300
250
200
150
100

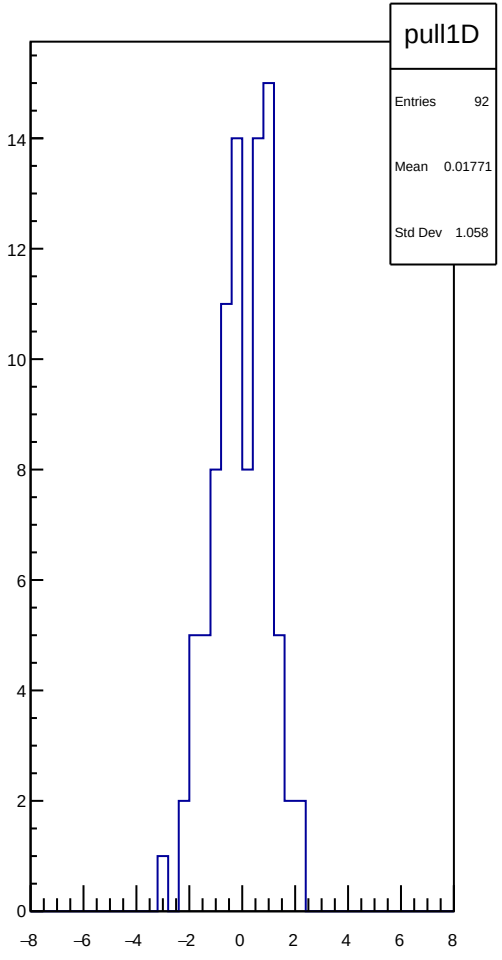

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.96 / 91
p0 0.08468 ± 0.2051
pull
Entries 92
Mean 93.85
Std Dev 0
pull1D
Entries 92
Mean 0.0382
Std Dev 1.01

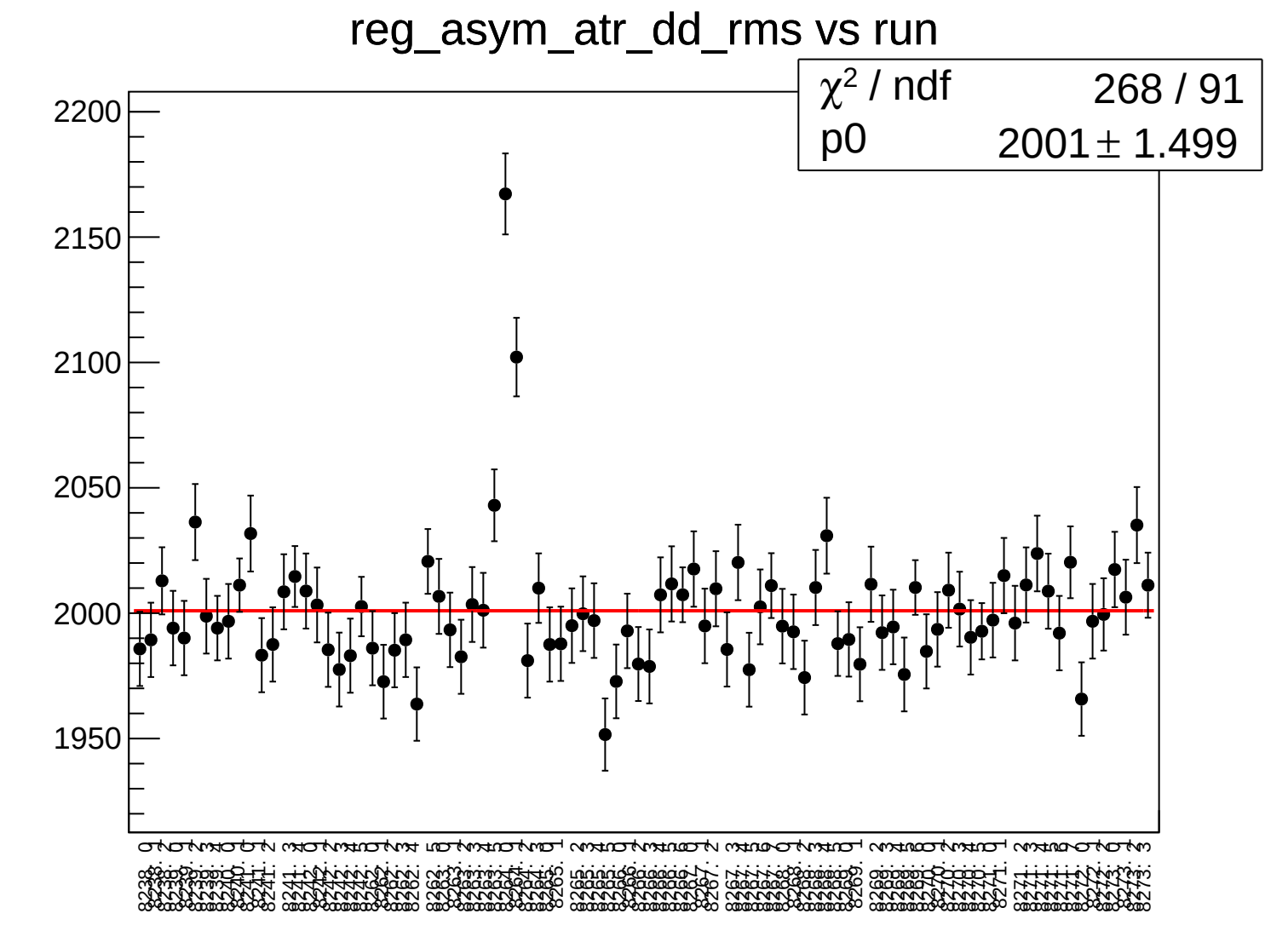

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.349e+04 / 91
p0 189.1 ± 0.145
400
350
300
250
200
150
100

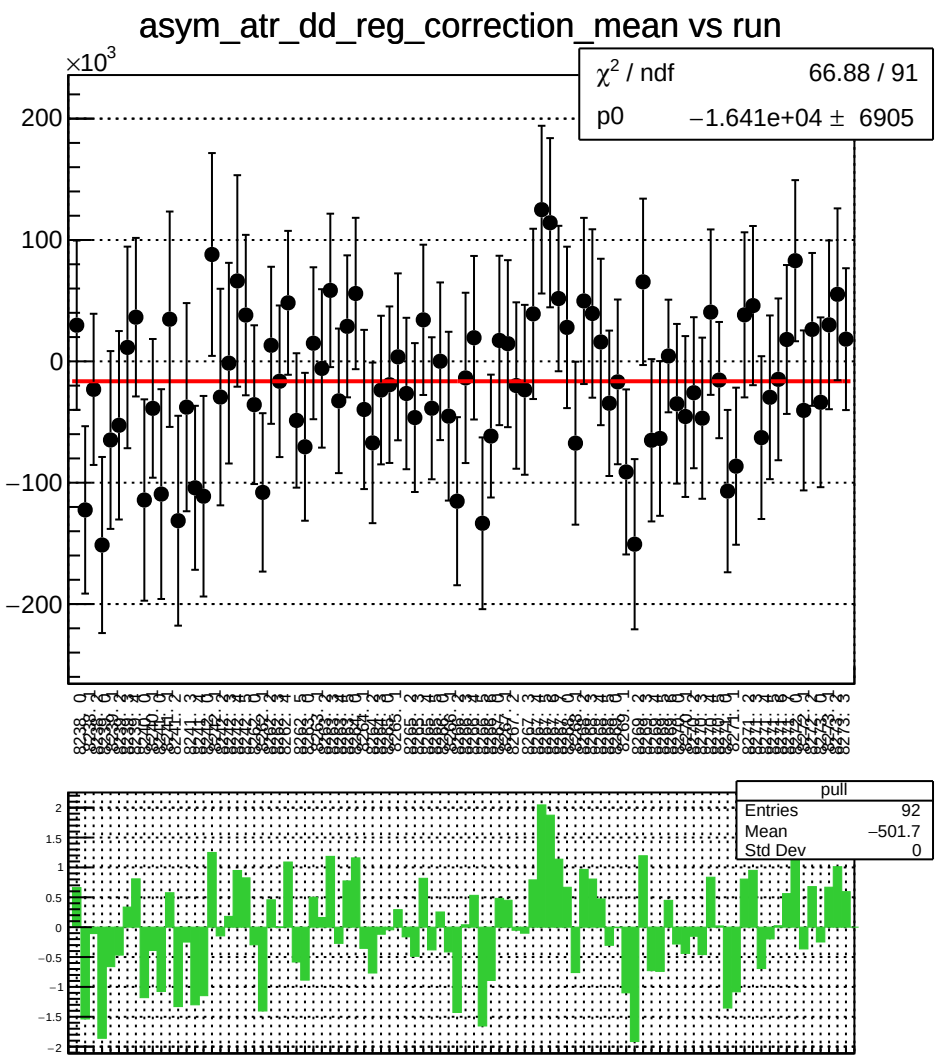

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 96.88 / 91
p0 −1.791e−13 ± 4.303e−13
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 92
Mean 42.49
Std Dev 47.29
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0639
Std Dev 1.024
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

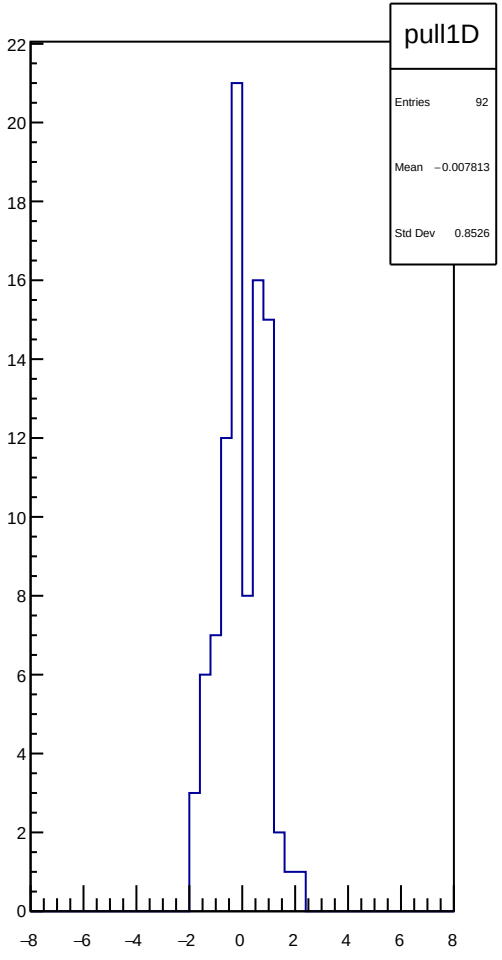

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.444e+05 / 91
p0 2.948e−10 ± 3.043e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

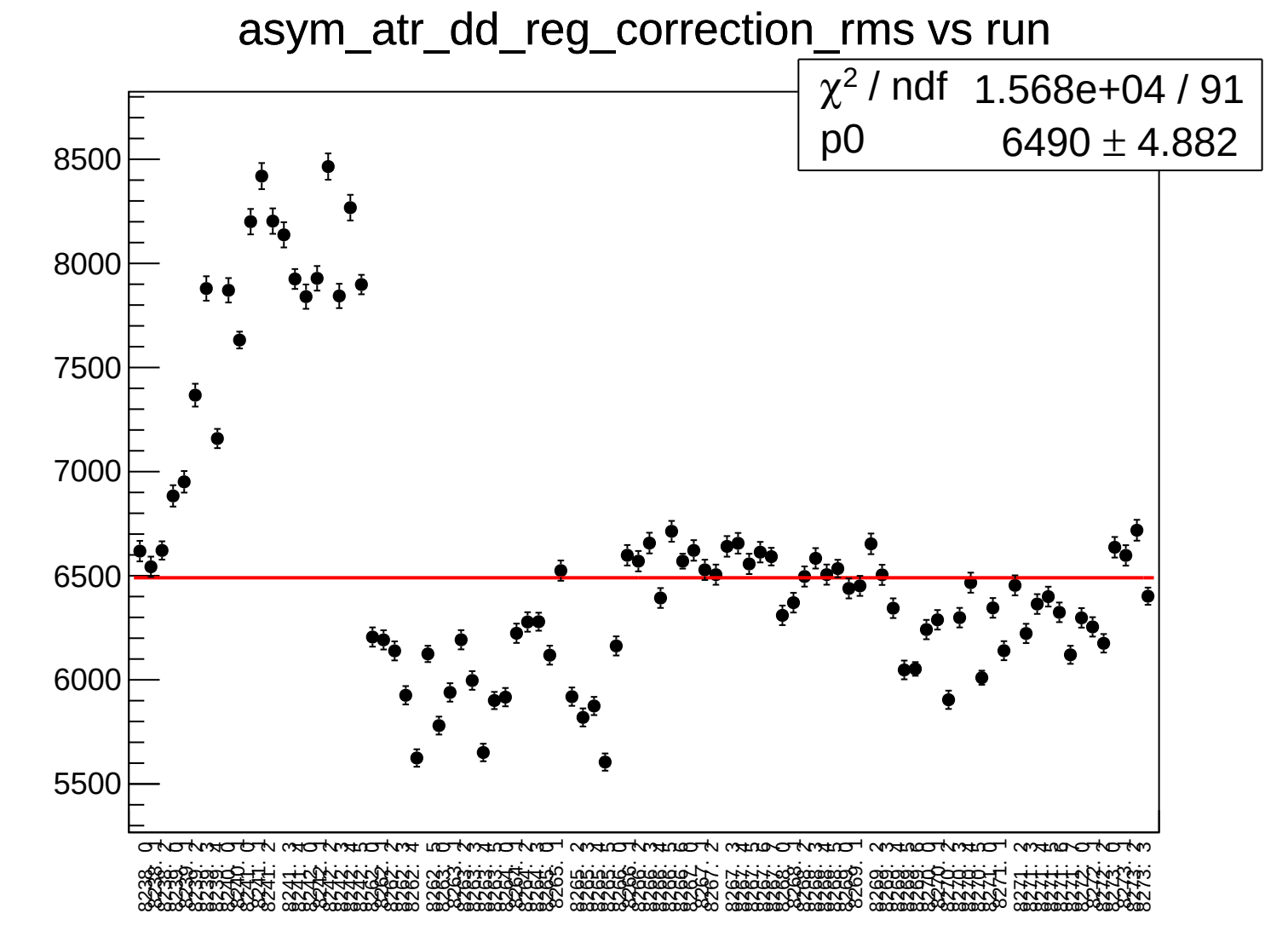

reg_asym_atr_dd_mean vs run
χ² / ndf 103 / 91
p0 1044 ± 2119
pull
Entries 92
Mean 44.72
Std Dev 68.67

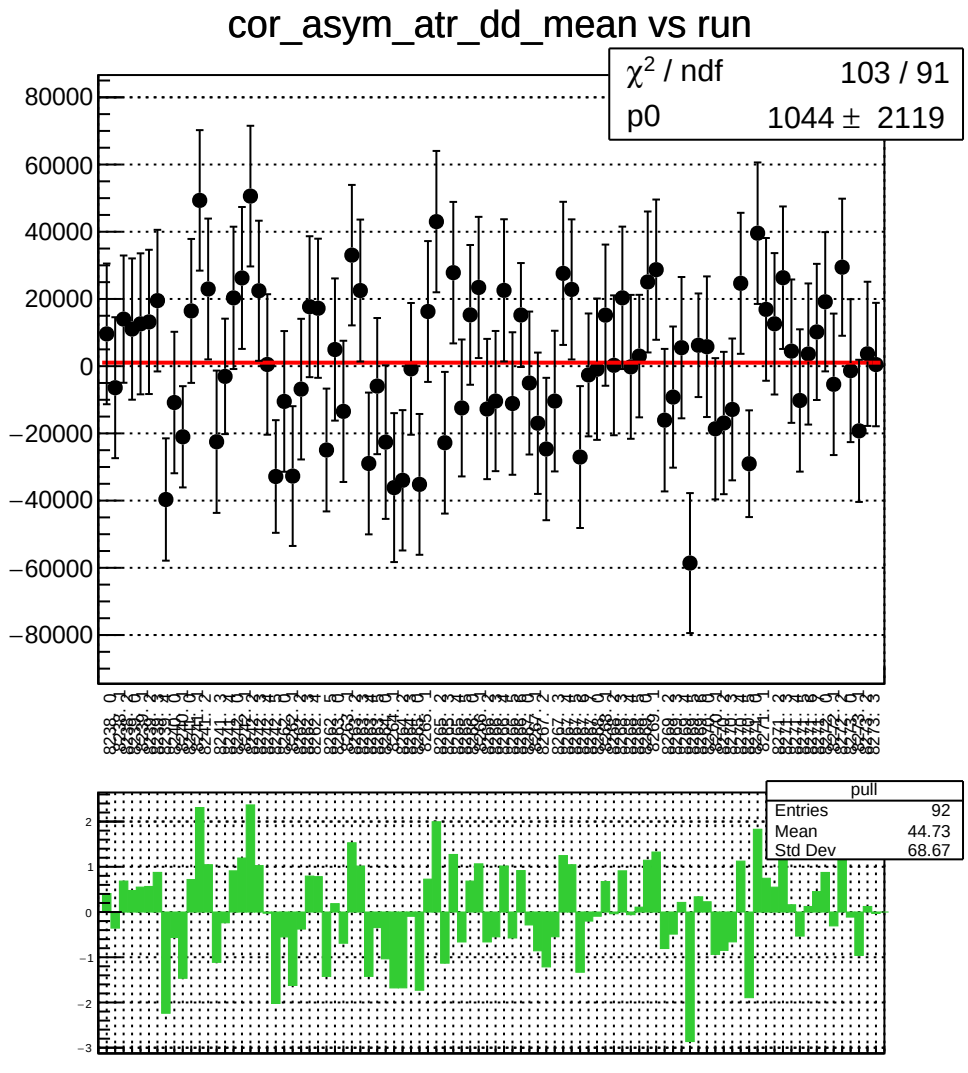

pull1D
Entries 92
Mean 0.01771
Std Dev 1.058

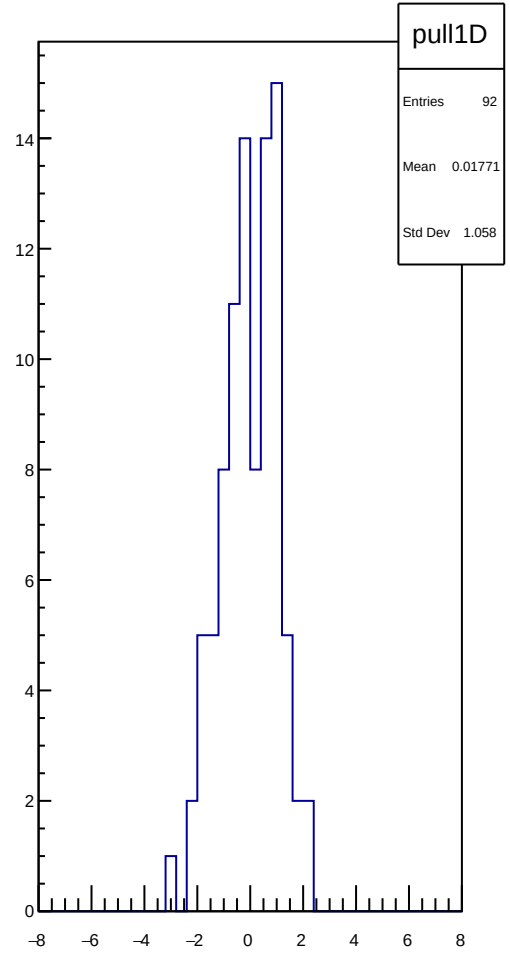

reg_asym_atr_dd_rms vs run
χ² / ndf 268 / 91
p0 2001 ± 1.499
2200
2150
2100
2050
2000
1950

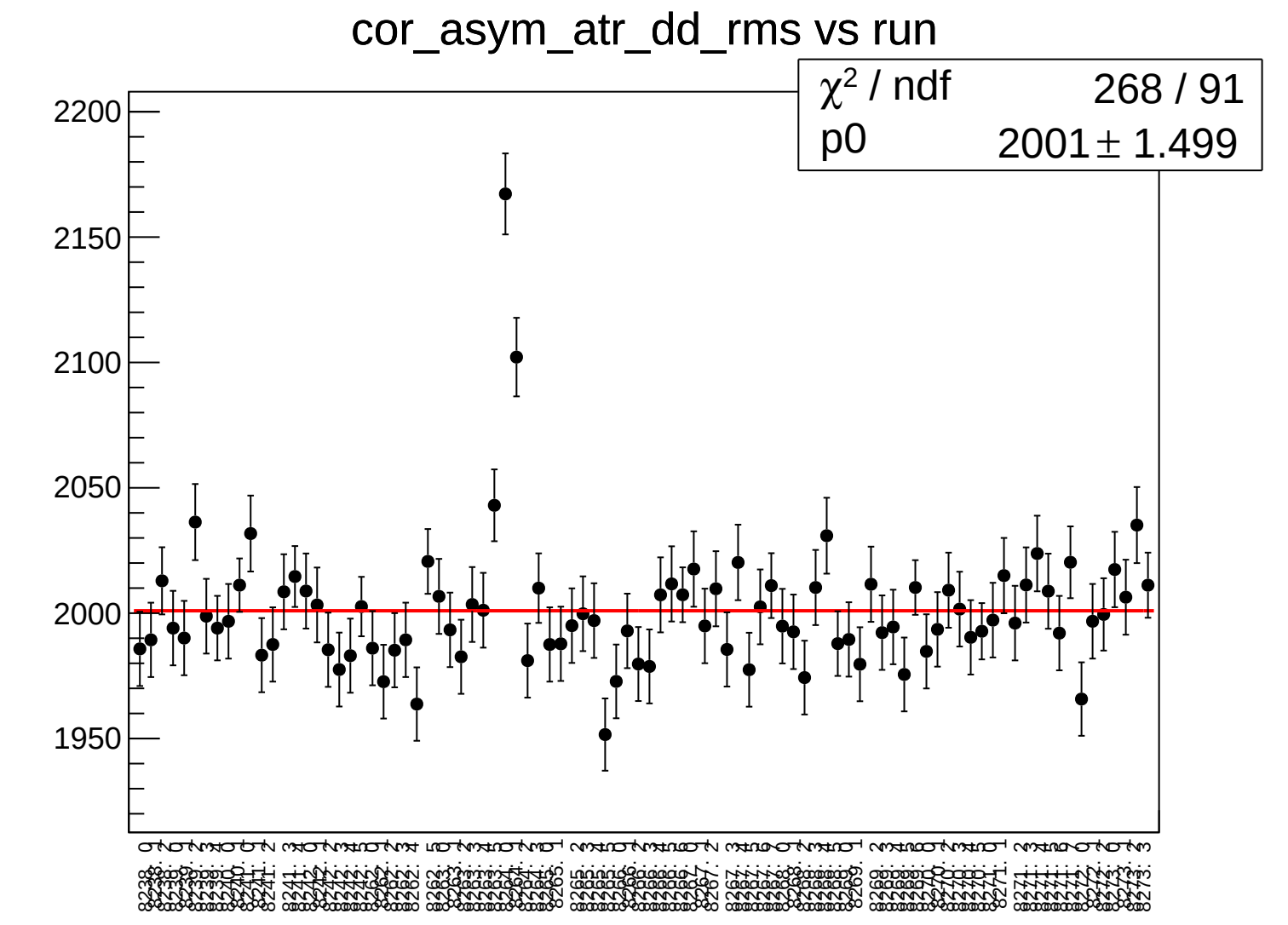

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 66.88 / 91
p0 −1.641e+04 ± 6905
pull
Entries 92
Mean −501.7
Std Dev 0

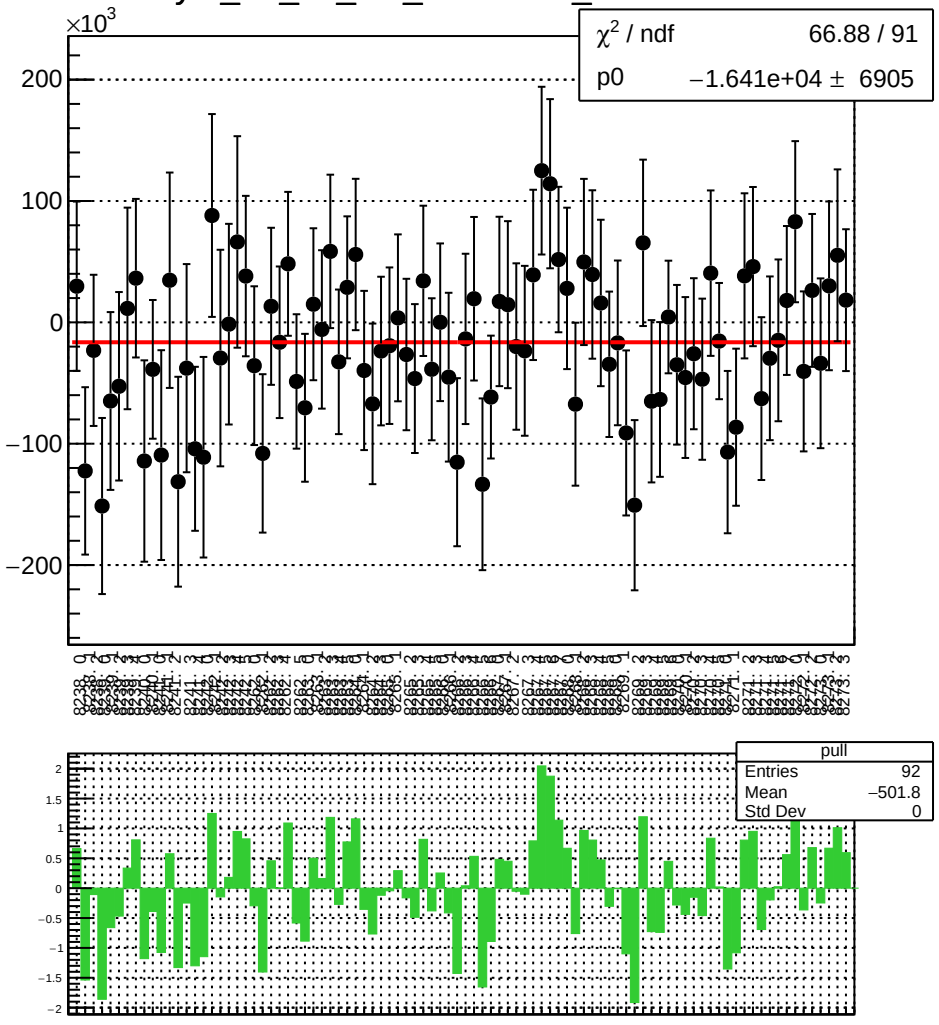

pull1D
Entries 92
Mean −0.007813
Std Dev 0.8526

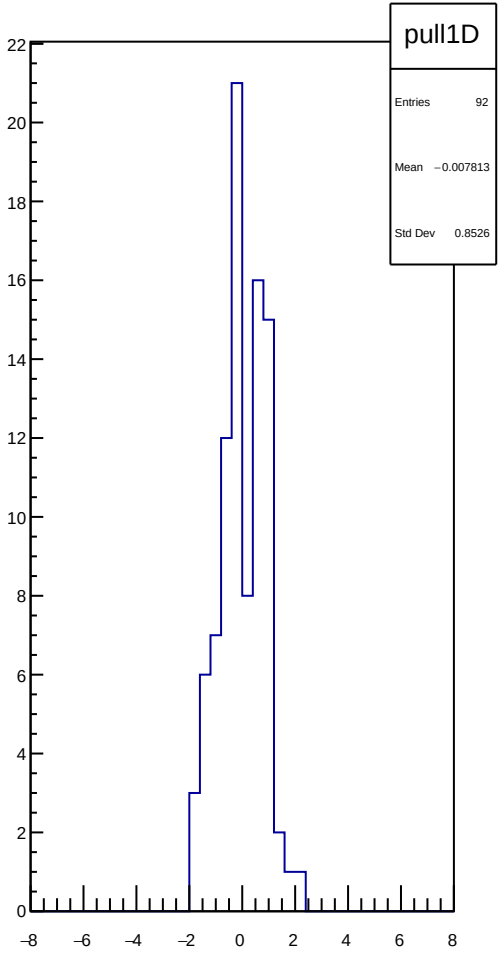

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 1.568e+04 / 91
p0 6490 ± 4.882
8500
8000
7500
7000
6500
6000
5500

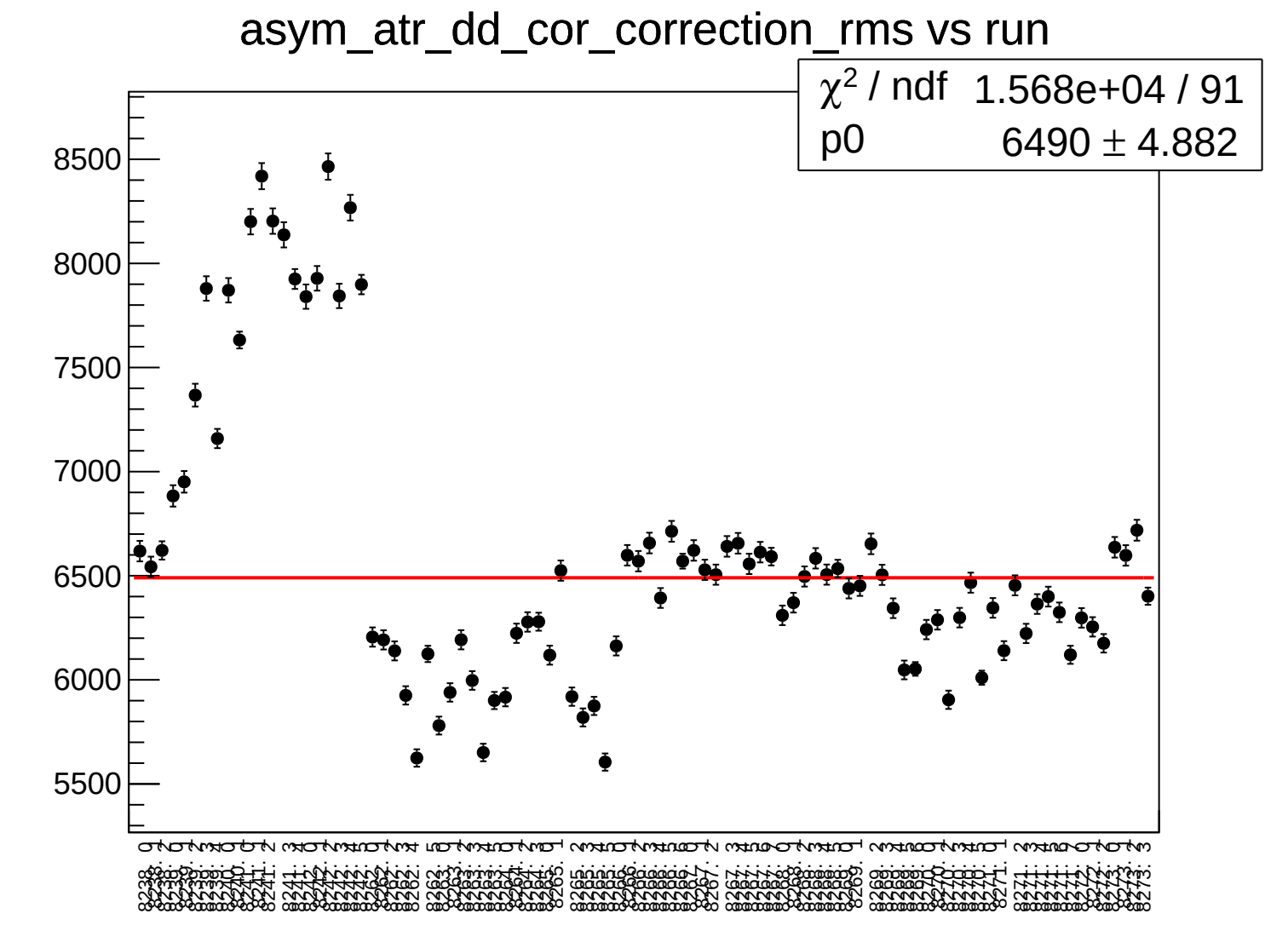

cor_asym_atr_dd_mean vs run
χ² / ndf 103 / 91
p0 1044 ± 2119
pull
Entries 92
Mean 44.73
Std Dev 68.67

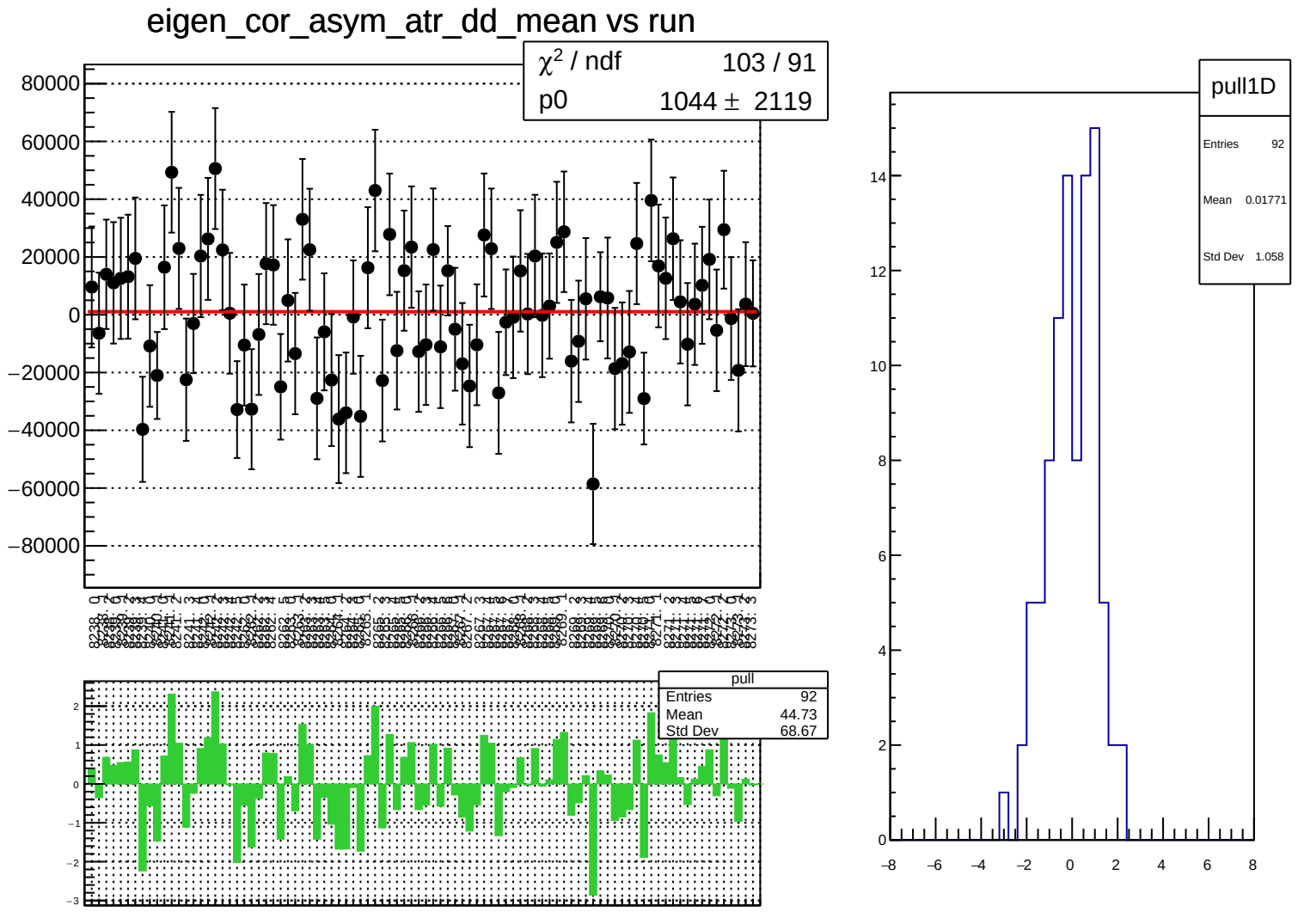

pull1D
Entries 92
Mean 0.01771
Std Dev 1.058

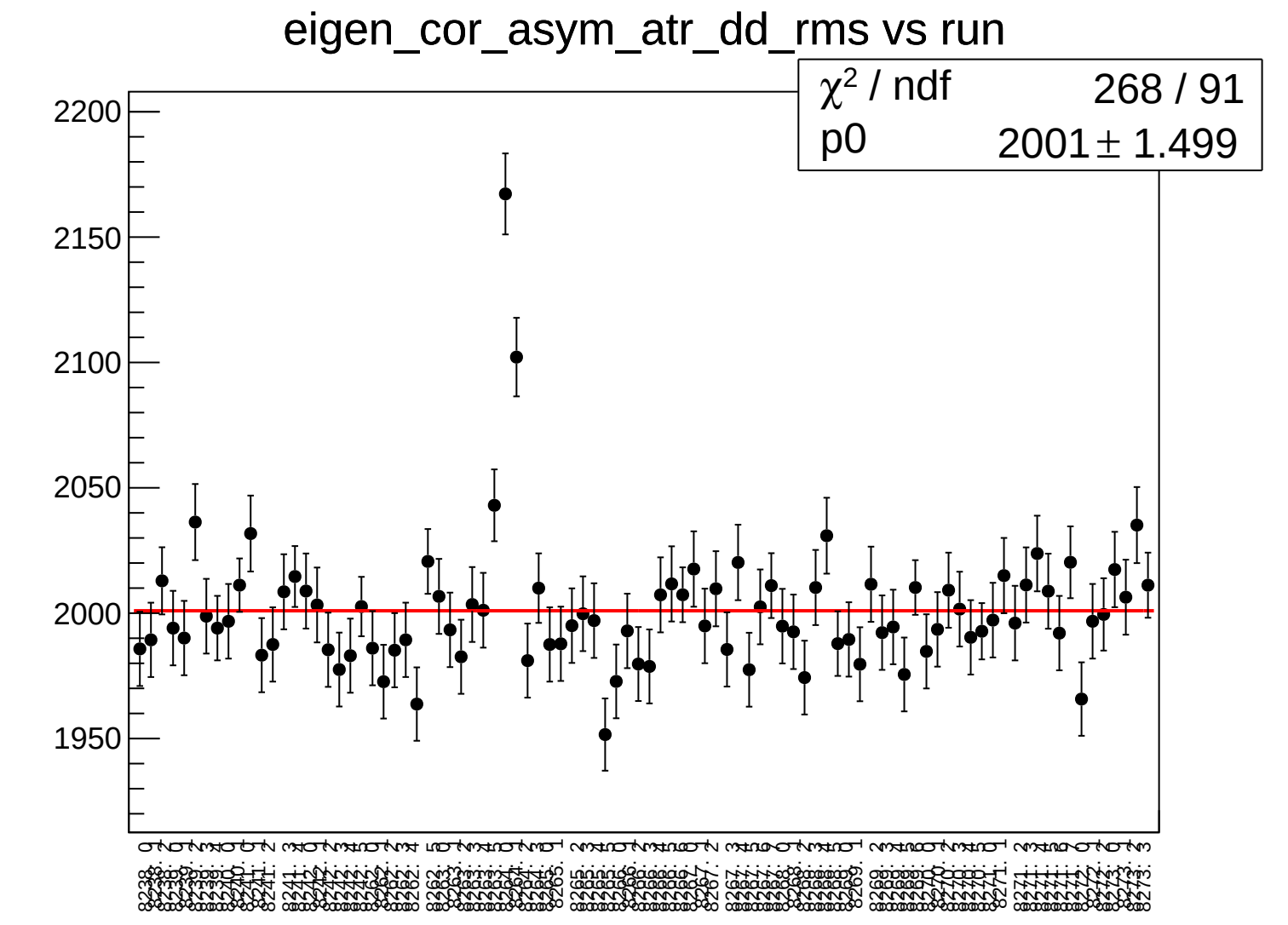

cor_asym_atr_dd_rms vs run
χ² / ndf 268 / 91
p0 2001 ± 1.499
2200
2150
2100
2050
2000
1950

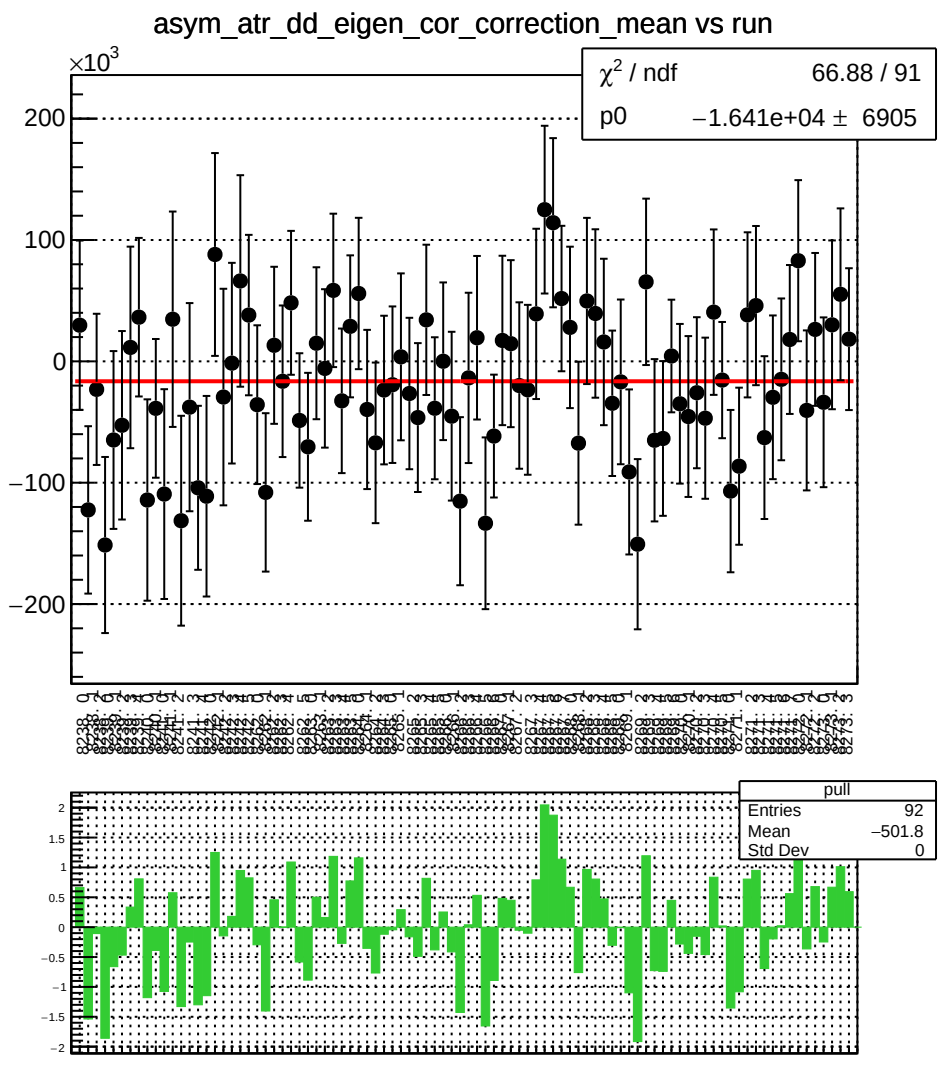

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 66.88 / 91
p0 −1.641e+04 ± 6905
pull
Entries 92
Mean −501.8
Std Dev 0

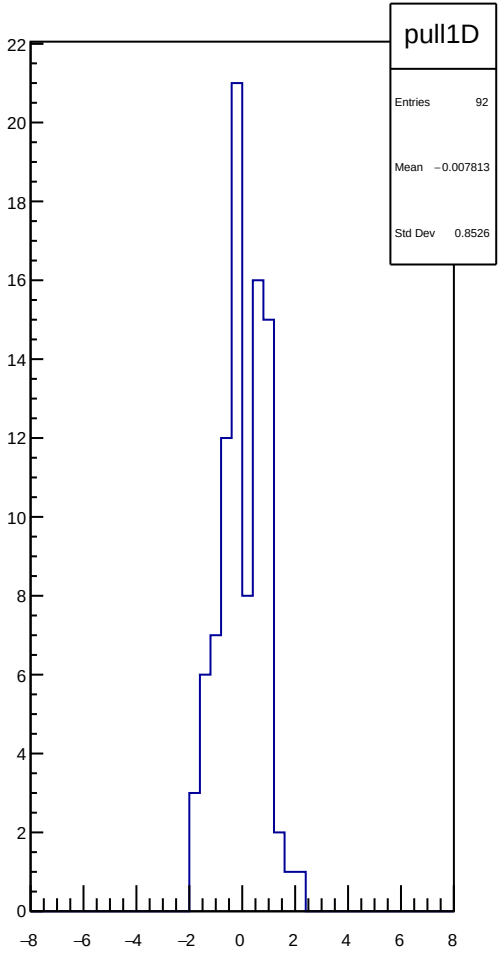

pull1D
Entries 92
Mean −0.007813
Std Dev 0.8526

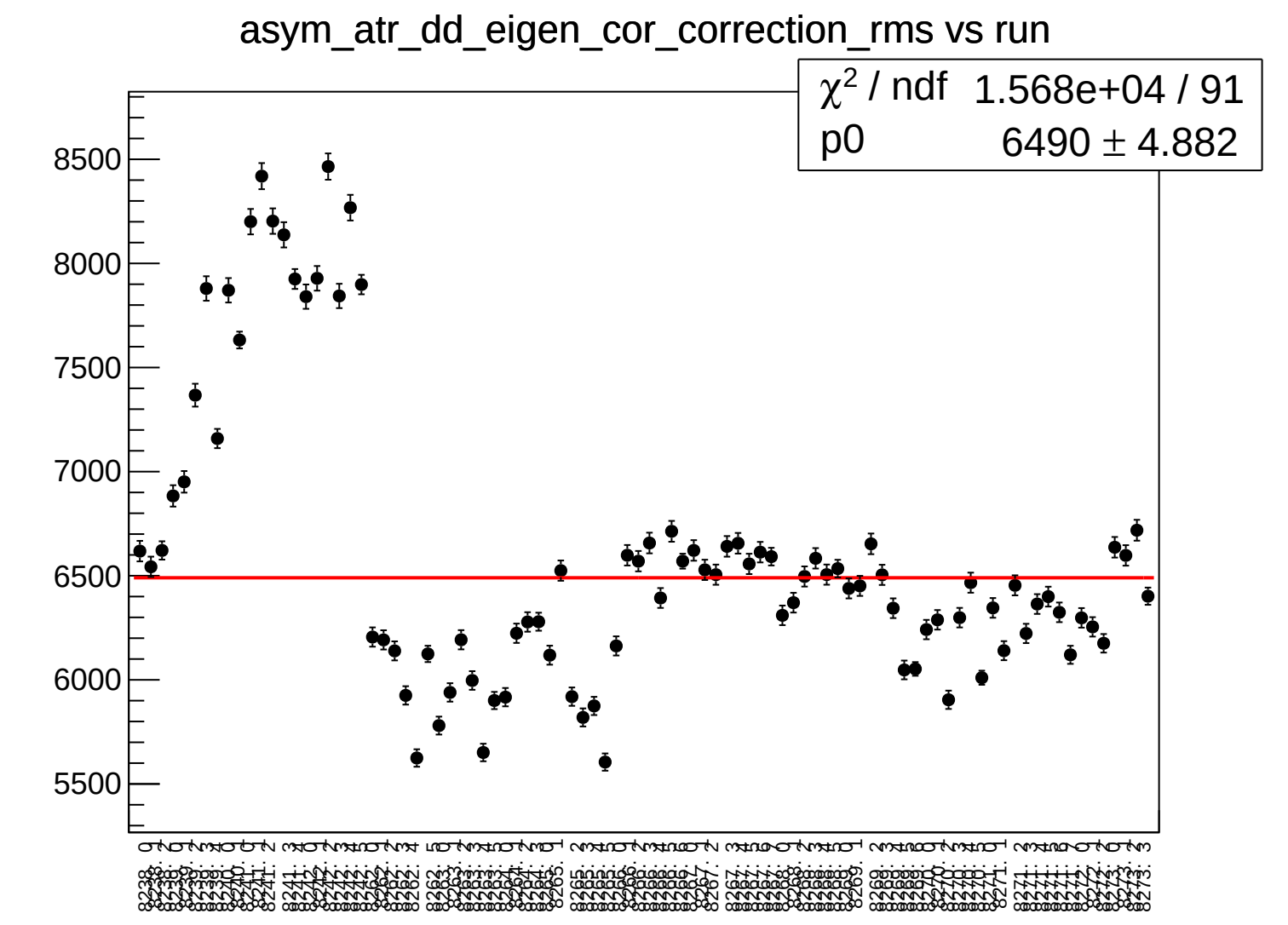

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 1.568e+04 / 91
p0 6490 ± 4.882
8500
8000
7500
7000
6500
6000
5500

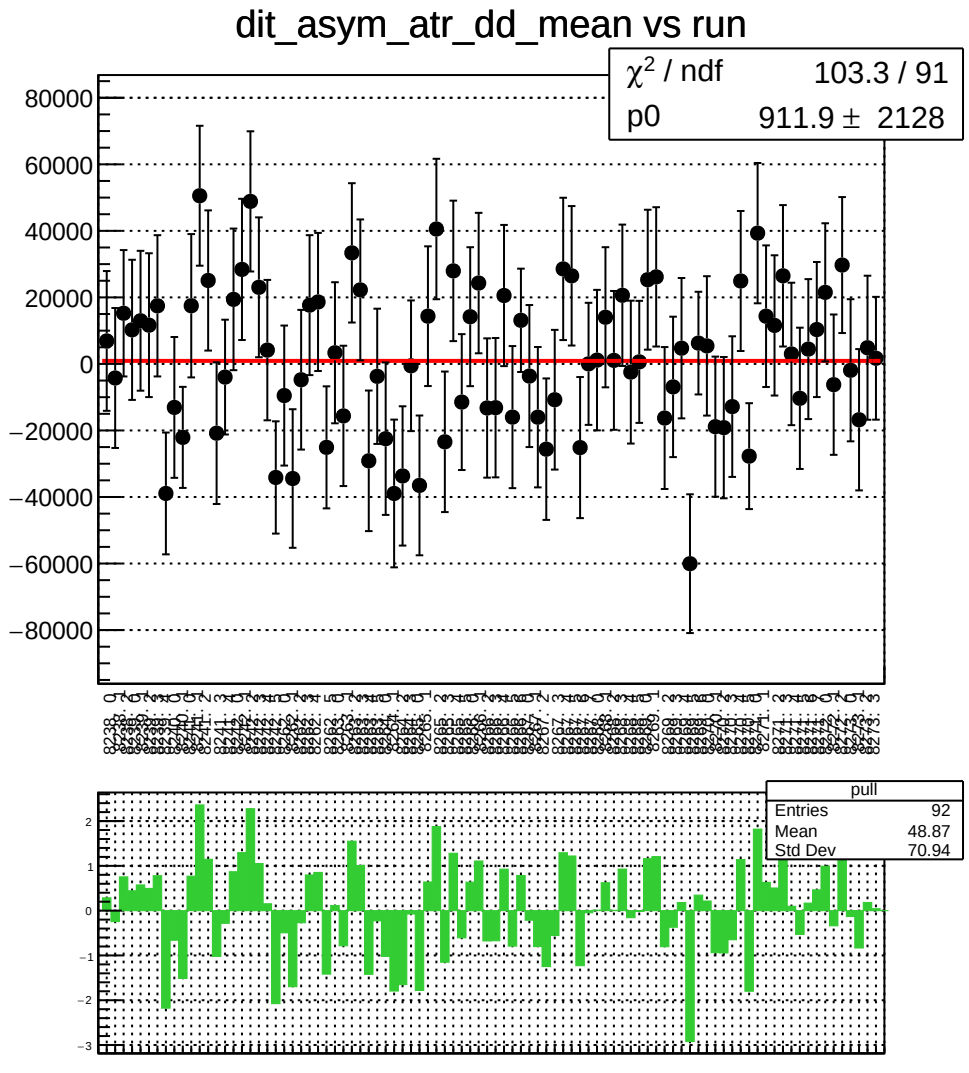

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 103 / 91
p0 1044 ± 2119
pull
Entries 92
Mean 44.73
Std Dev 68.67
pull1D
Entries 92
Mean 0.01771
Std Dev 1.058

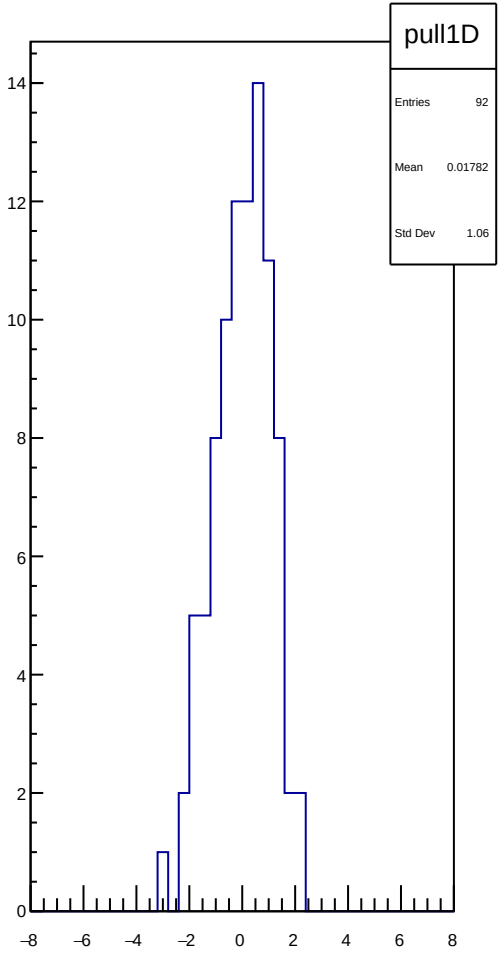

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 268 / 91
p0 2001 ± 1.499
2200
2150
2100
2050
2000
1950

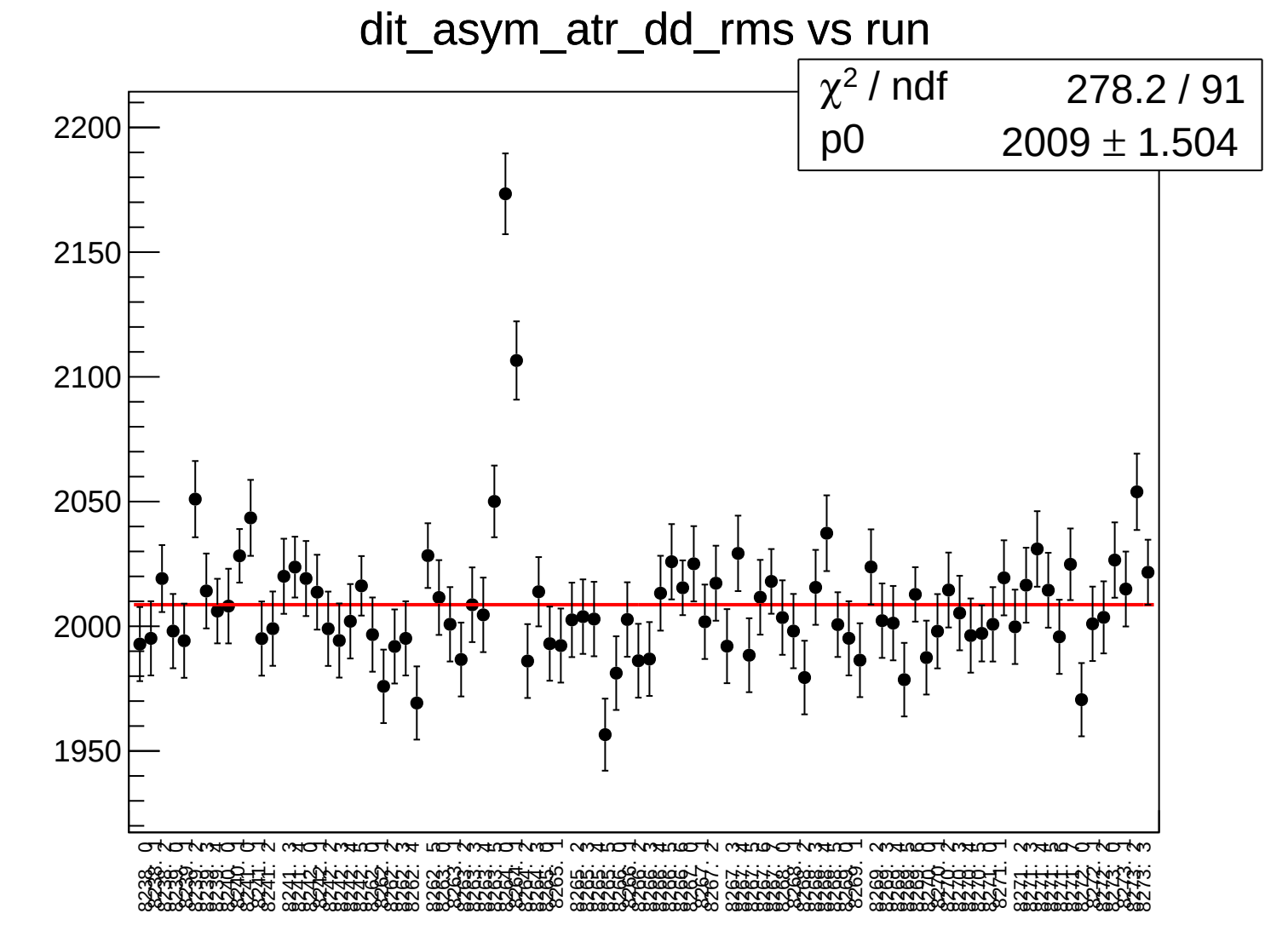

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 66.88 / 91
p0 −1.641e+04 ± 6905
pull
Entries 92
Mean −501.8
Std Dev 0

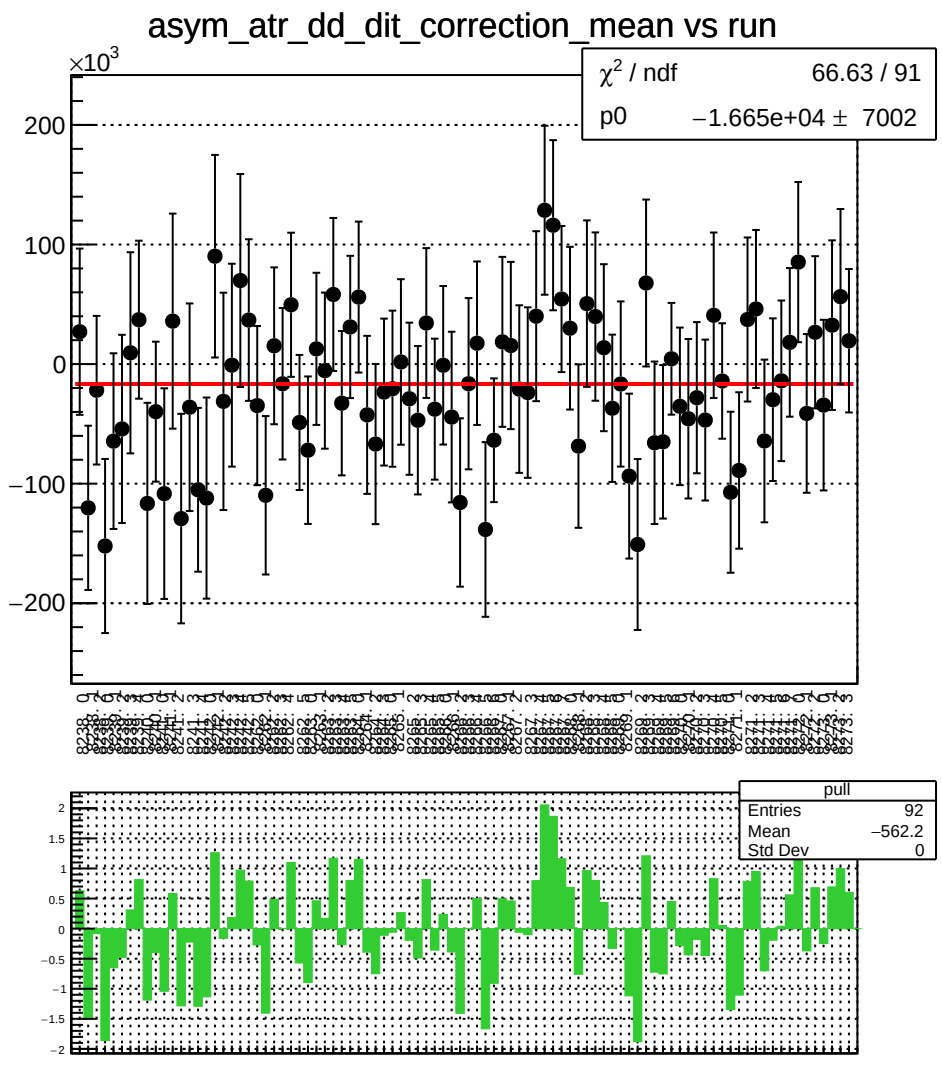

pull1D
Entries 92
Mean −0.007813
Std Dev 0.8526

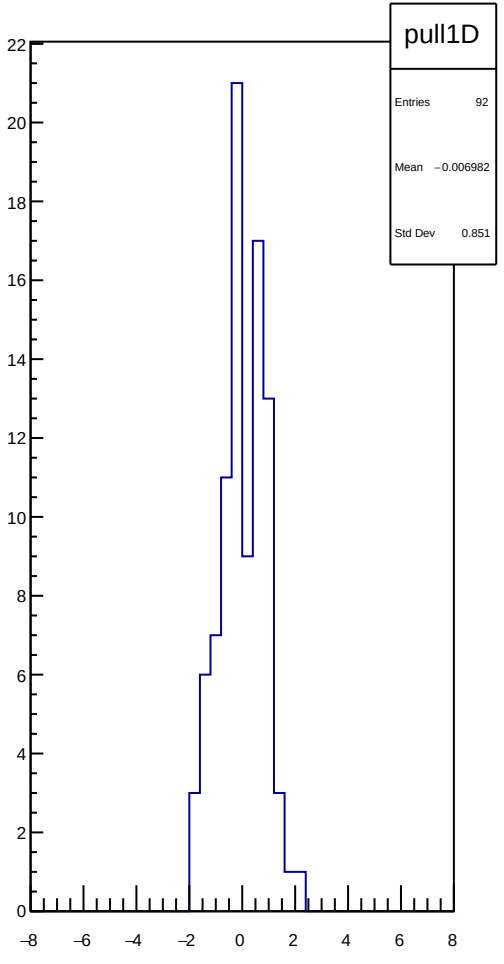

asym_atr_dd_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 1.568e+04 / 91
p0 6490 ± 4.882
8500
8000
7500
7000
6500
6000
5500

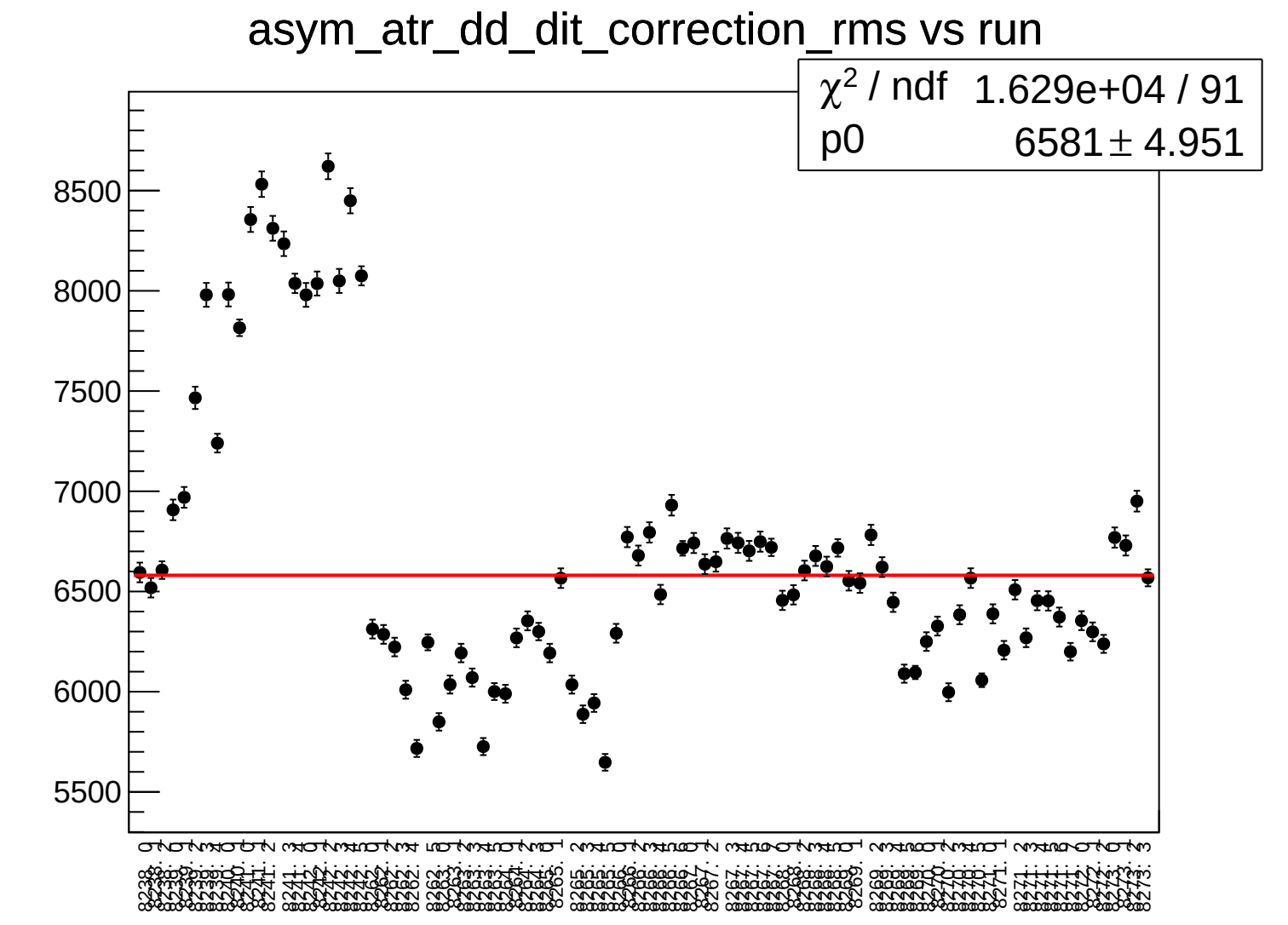

dit_asym_atr_dd_mean vs run
χ² / ndf 103.3 / 91
p0 911.9 ± 2128
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 48.87
Std Dev 70.94
2
1
0
−1
−2
−3

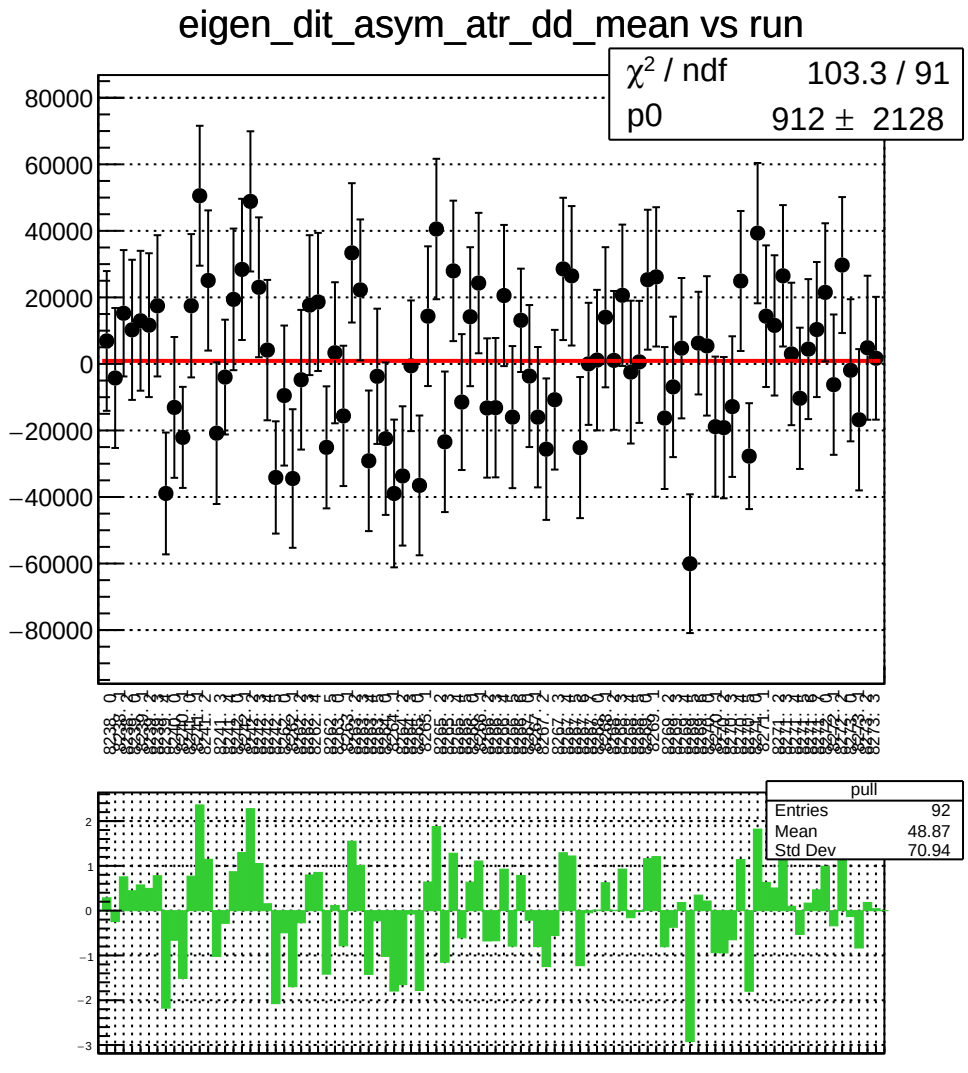

pull1D
Entries 92
Mean 0.01782
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

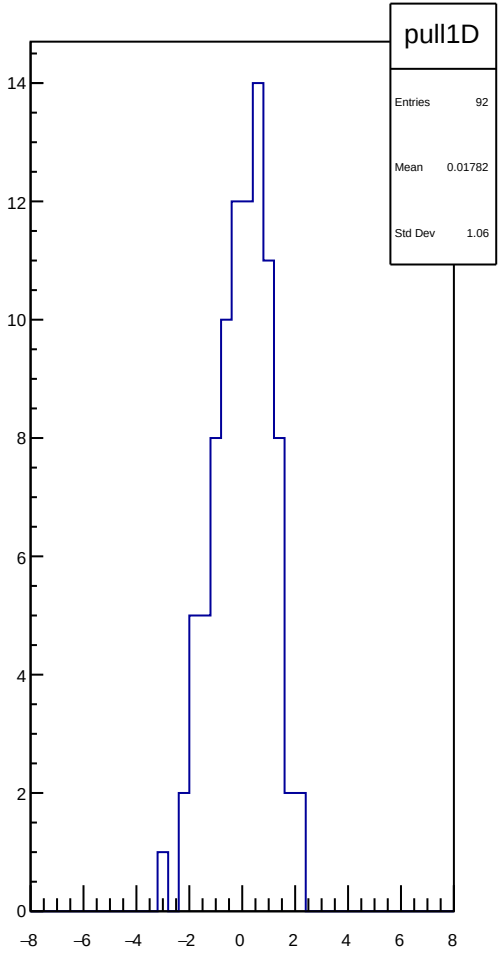

dit_asym_atr_dd_rms vs run
χ² / ndf 278.2 / 91
p0 2009 ± 1.504
2200
2150
2100
2050
2000
1950

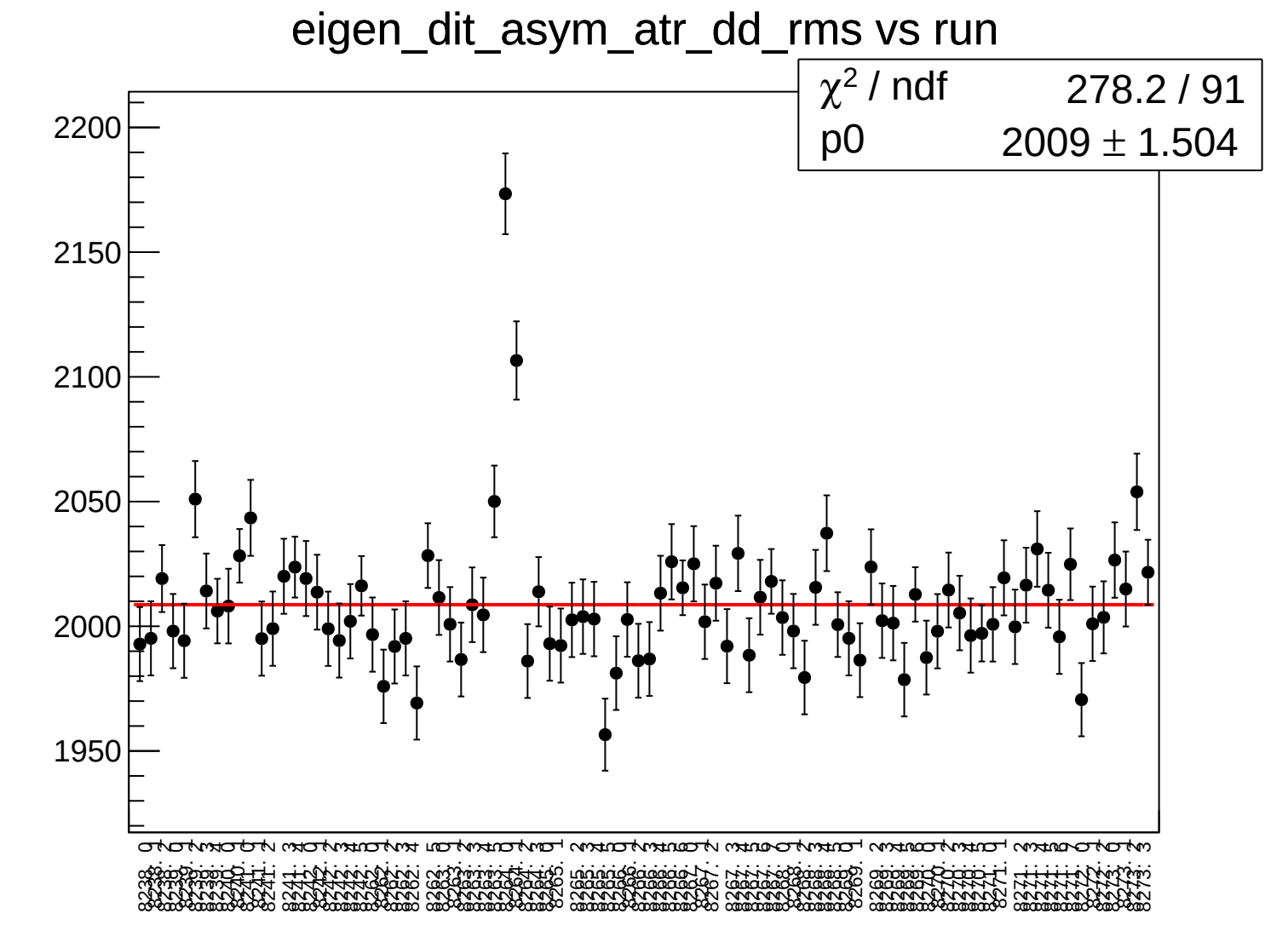

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 66.63 / 91
p0 −1.665e+04 ± 7002
200
100
0
−100
−200
pull
Entries 92
Mean −562.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

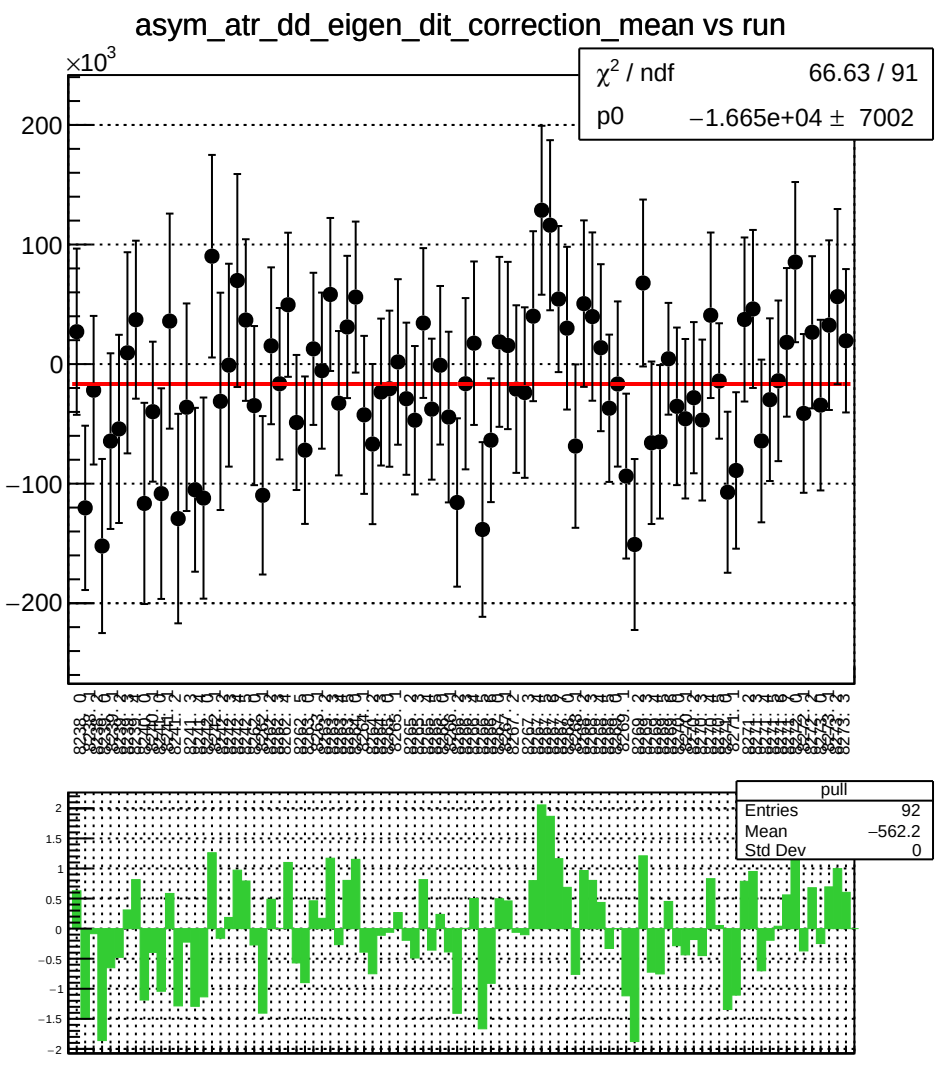

pull1D
Entries 92
Mean −0.006982
Std Dev 0.851
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

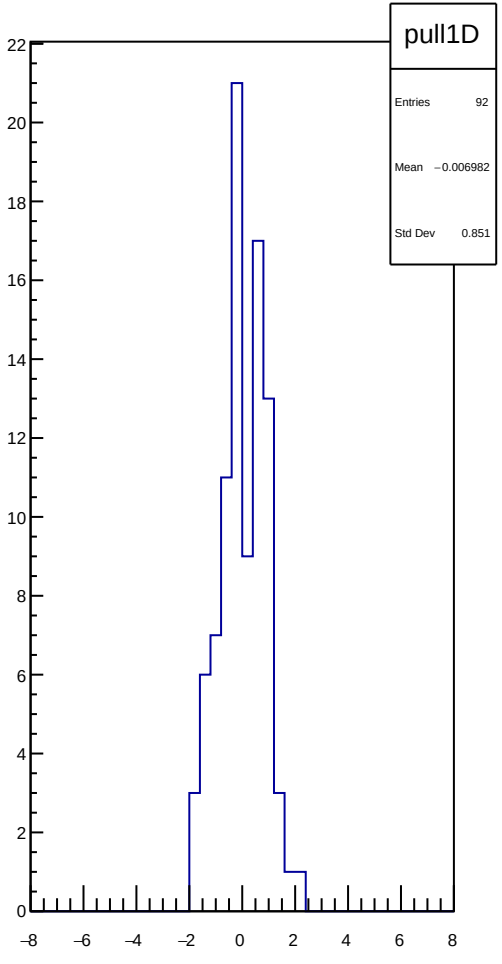

asym_atr_dd_dit_correction_rms vs run
$\chi^2$ / ndf 1.629e+04 / 91
p0 6581 ± 4.951
8500
8000
7500
7000
6500
6000
5500

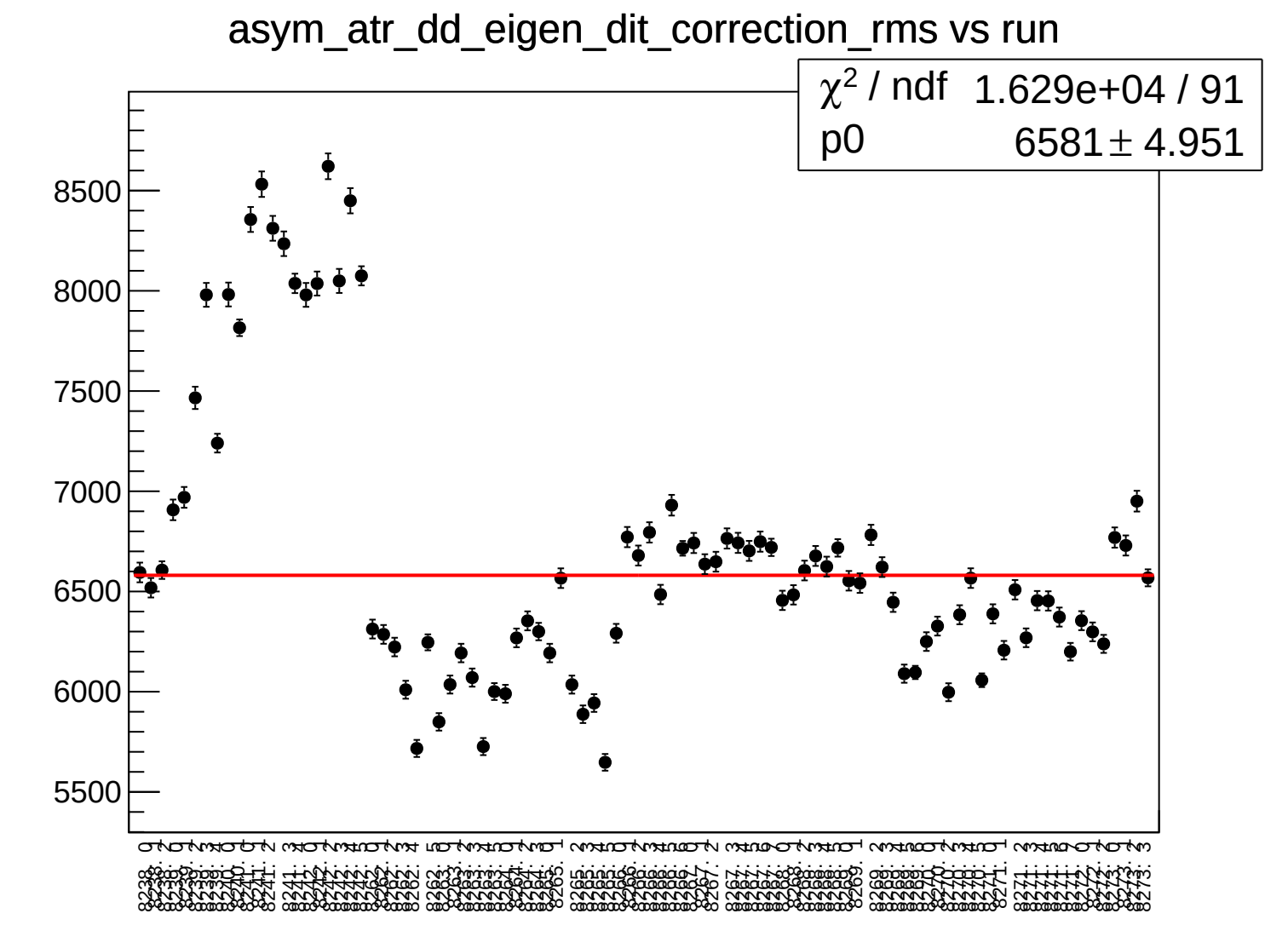

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 103.3 / 91
p0 912 ± 2128
pull
Entries 92
Mean 48.87
Std Dev 70.94

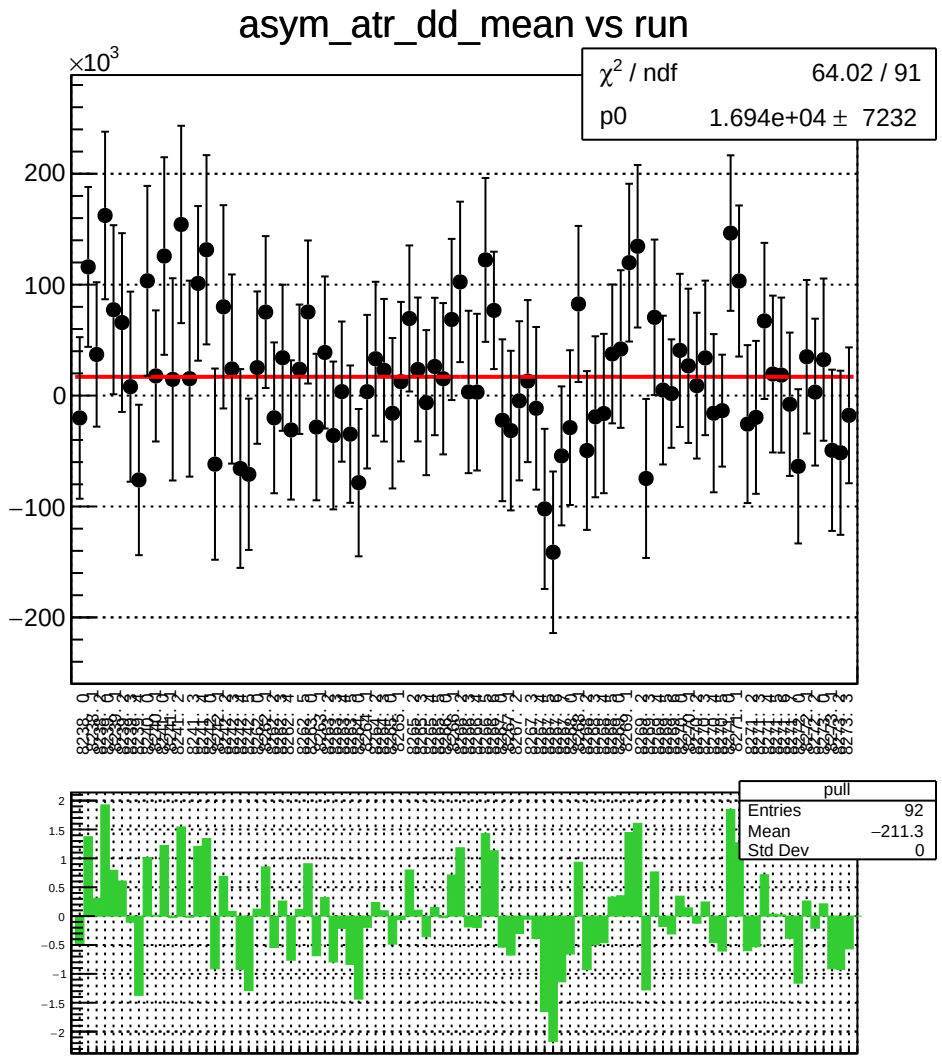

pull1D
Entries 92
Mean 0.01782
Std Dev 1.06

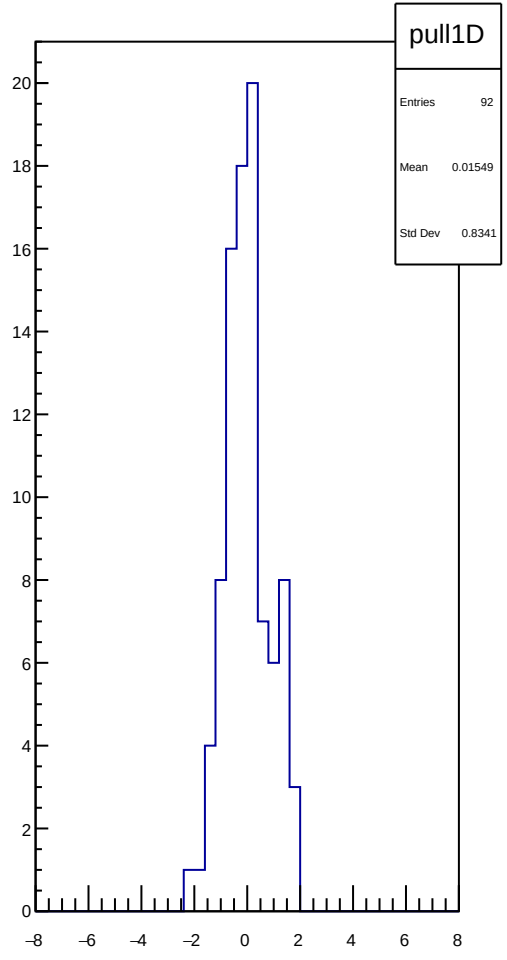

eigen_dit_asym_atr_dd_rms vs run
$\chi^2$ / ndf 278.2 / 91
p0 2009 ± 1.504
2200
2150
2100
2050
2000
1950

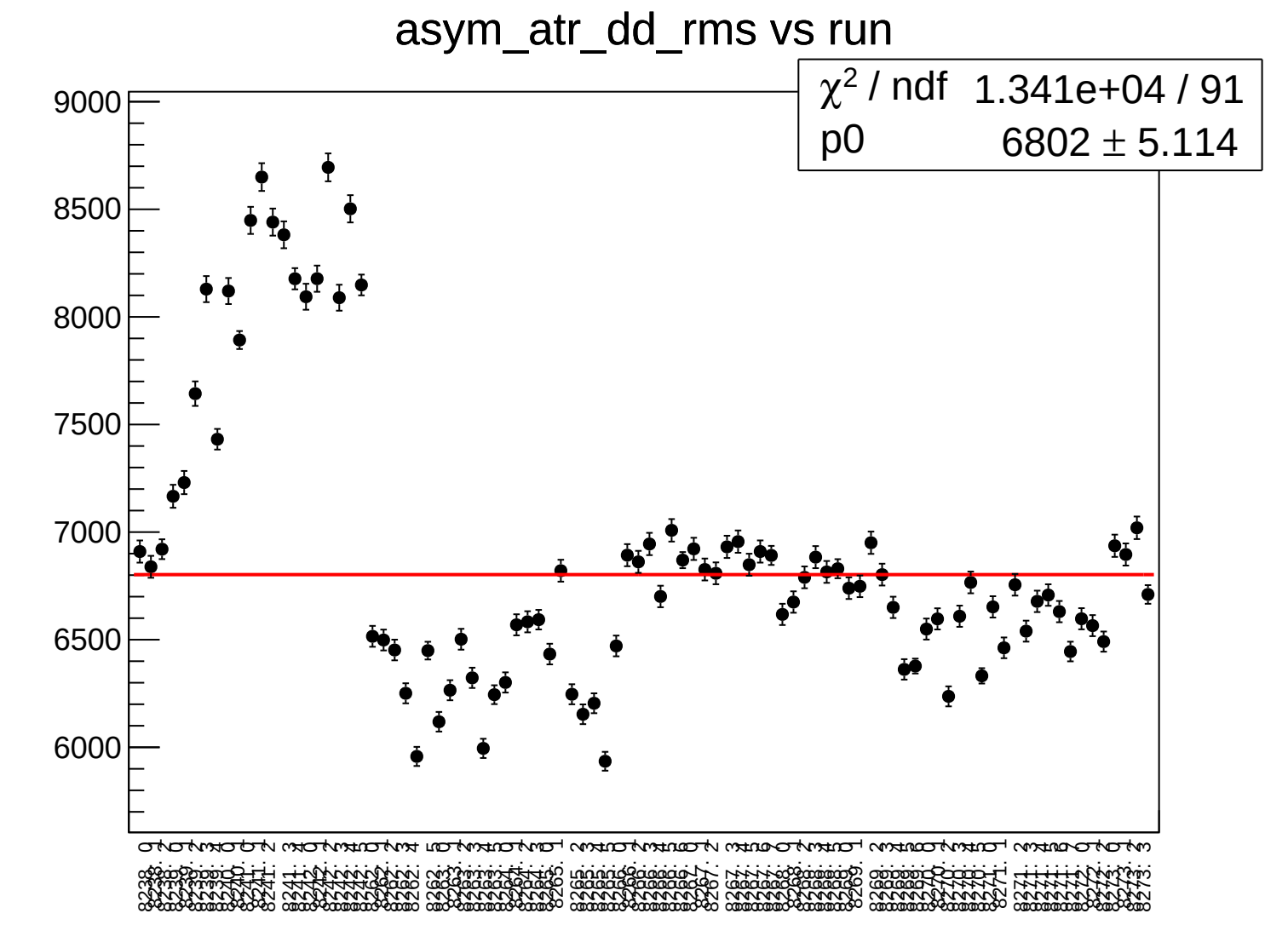

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.63 / 91
p0 −1.665e+04 ± 7002
200
100
0
−100
−200
pull
Entries 92
Mean −562.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

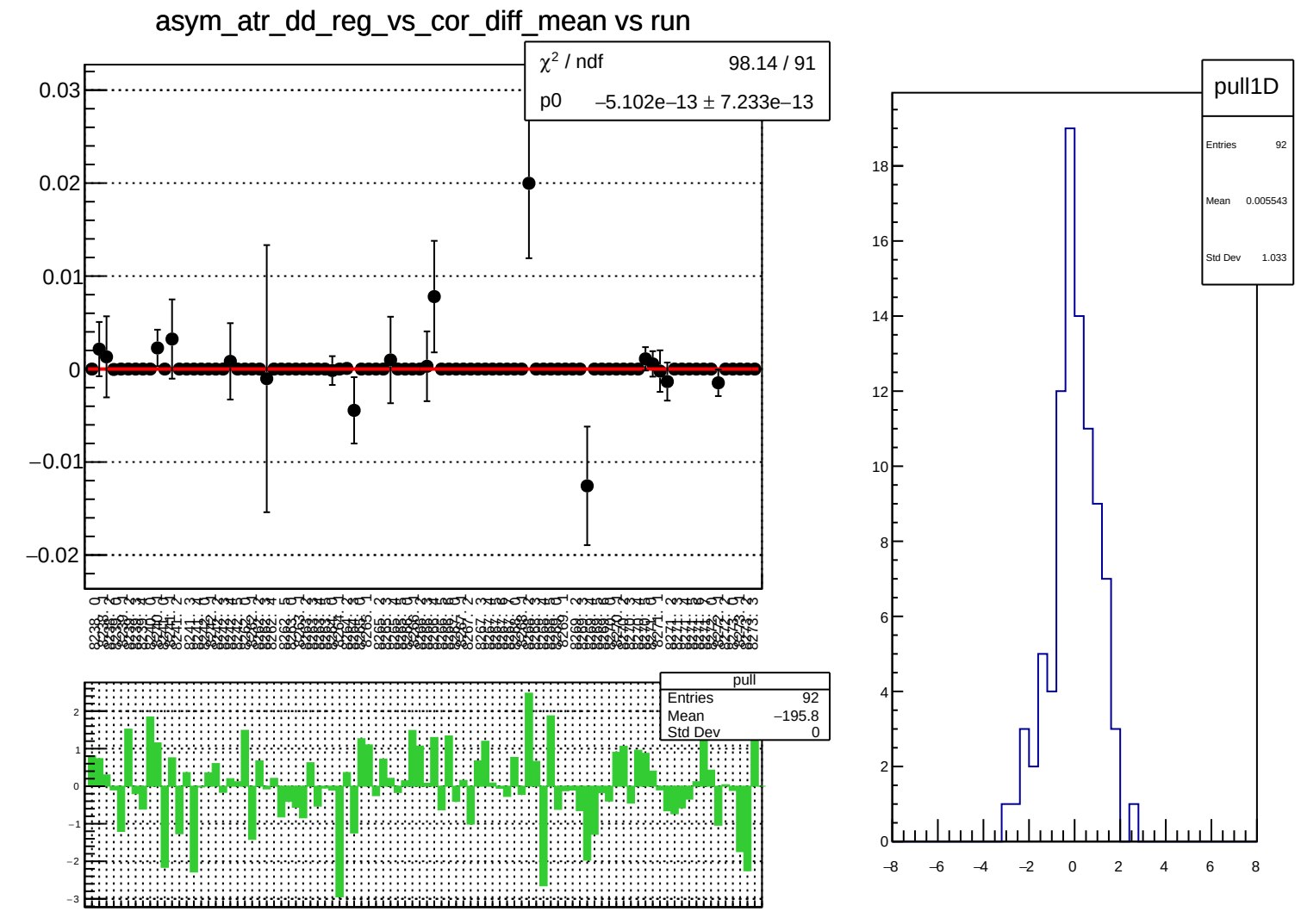

pull1D
Entries 92
Mean −0.006982
Std Dev 0.851
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

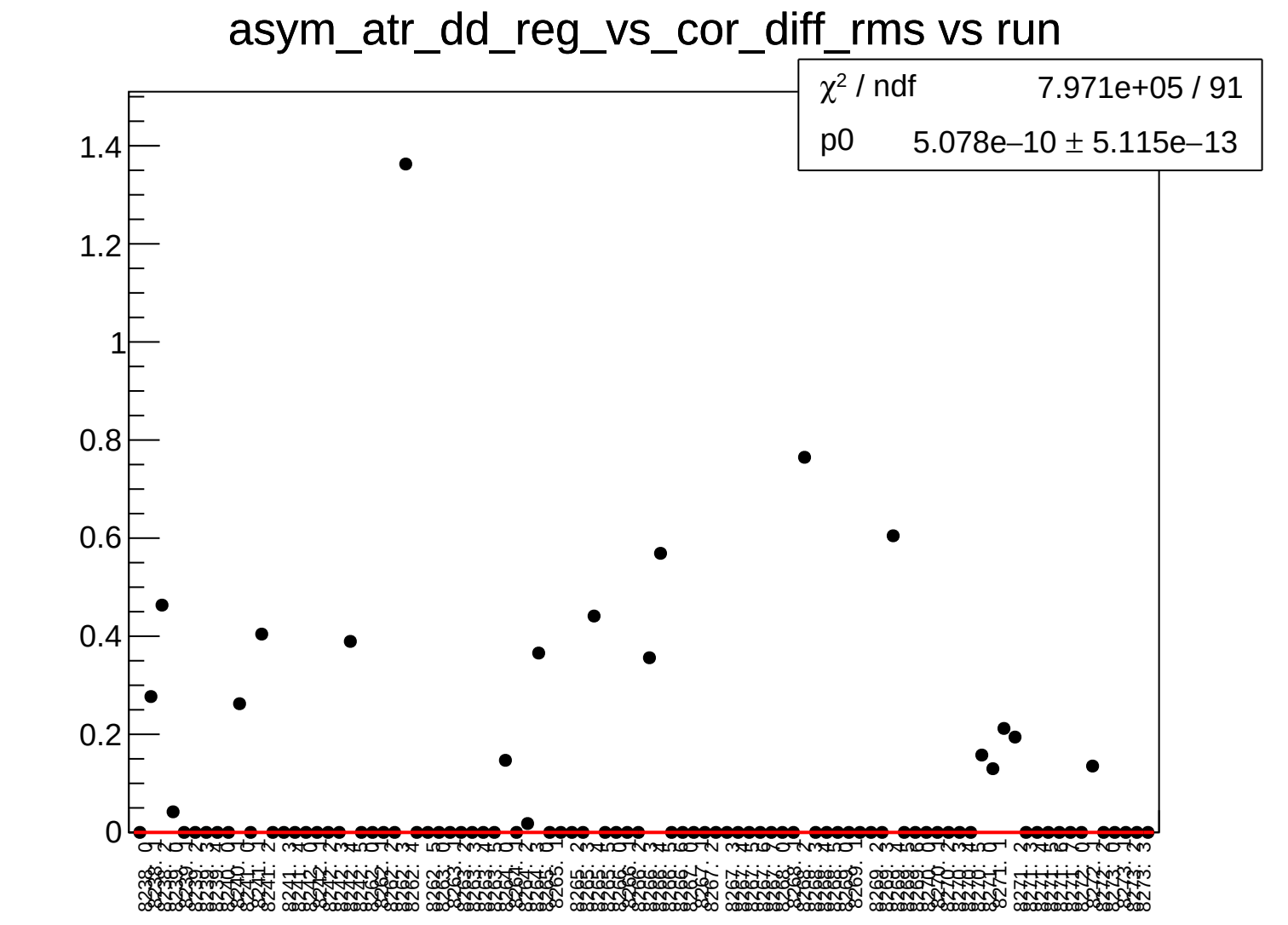

asym_atr_dd_eigen_dit_correction_rms vs run
$\chi^2$ / ndf 1.629e+04 / 91
p0 6581 ± 4.951
8500
8000
7500
7000
6500
6000
5500

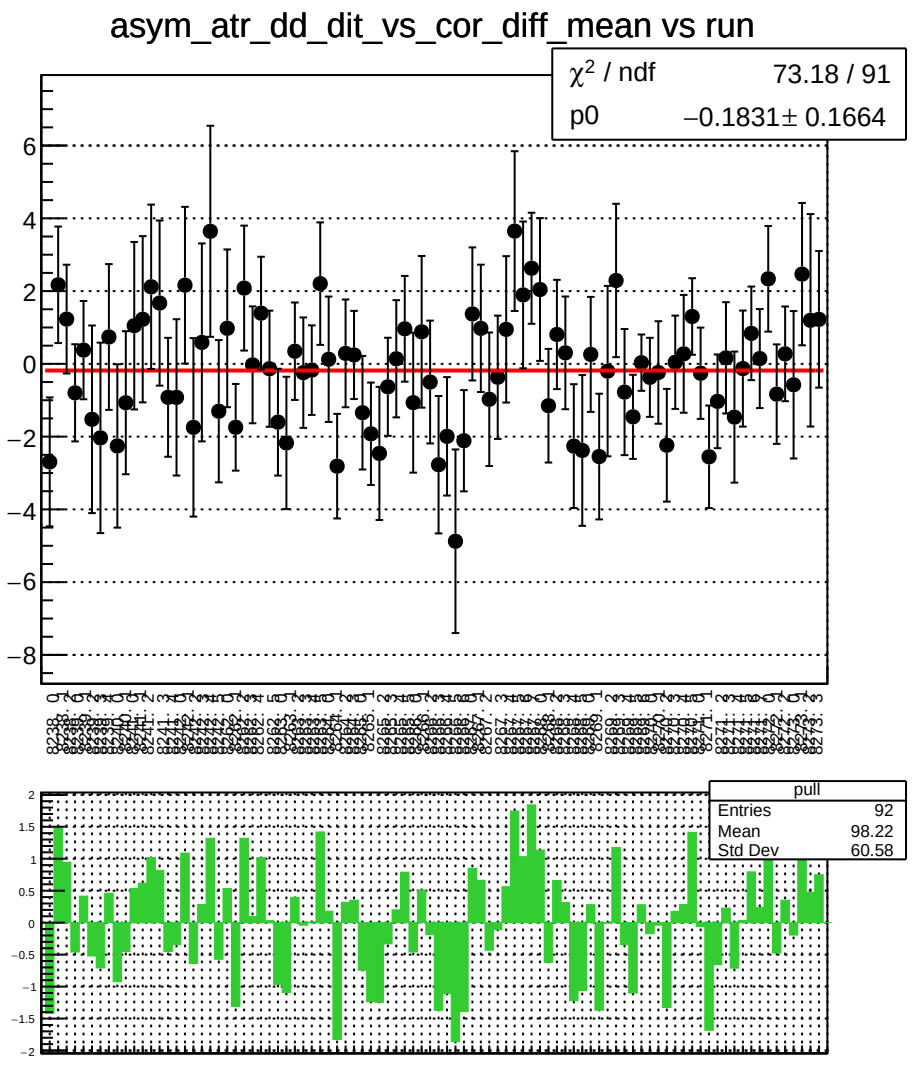

asym_atr_dd_mean vs run
×10^3
χ² / ndf 64.02 / 91
p0 1.694e+04 ± 7232
200
100
0
−100
−200
pull
Entries 92
Mean −211.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

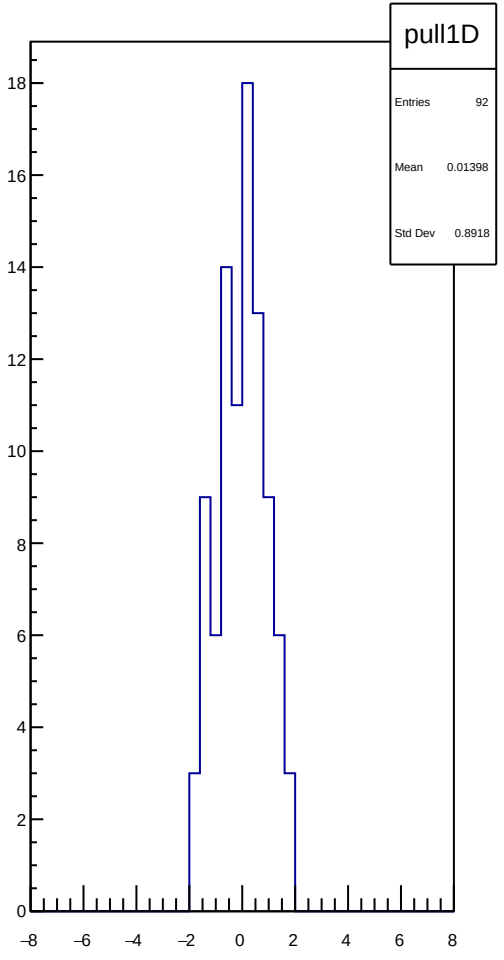

pull1D
Entries 92
Mean 0.01549
Std Dev 0.8341
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

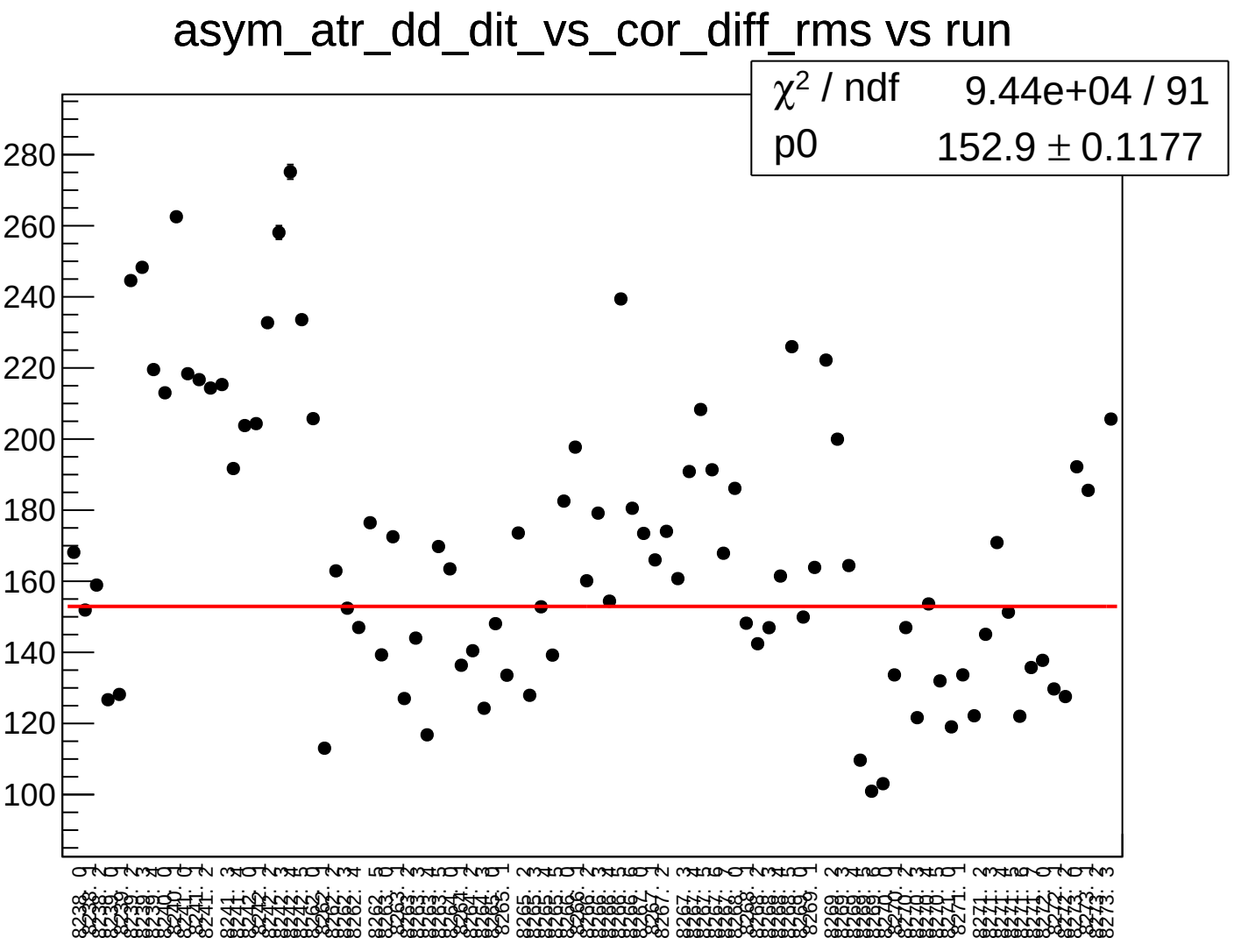

asym_atr_dd_rms vs run
$\chi^2$ / ndf 1.341e+04 / 91
p0 6802 ± 5.114
9000
8500
8000
7500
7000
6500
6000

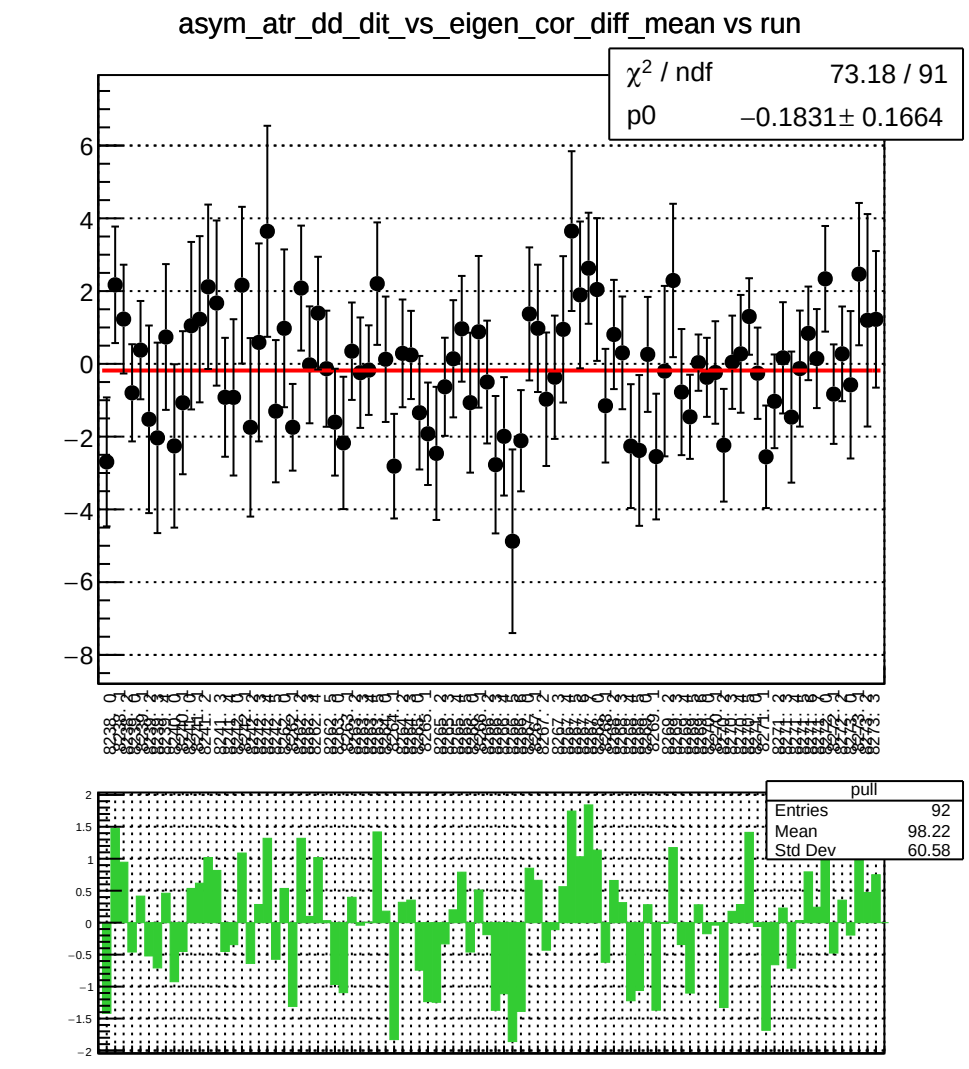

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.14 / 91
p0 −5.102e−13 ± 7.233e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean −195.8
Std Dev 0
pull1D
Entries 92
Mean 0.005543
Std Dev 1.033

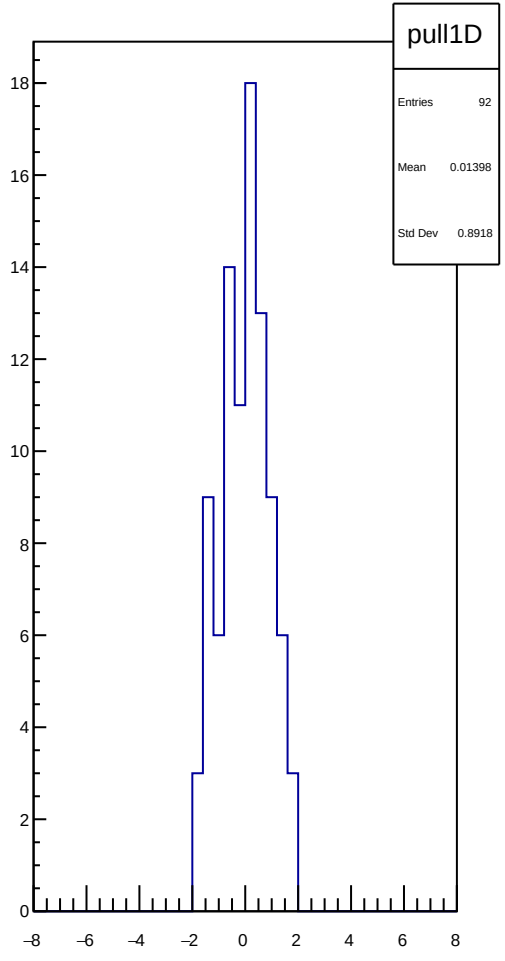

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.971e+05 / 91
p0 5.078e−10 ± 5.115e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

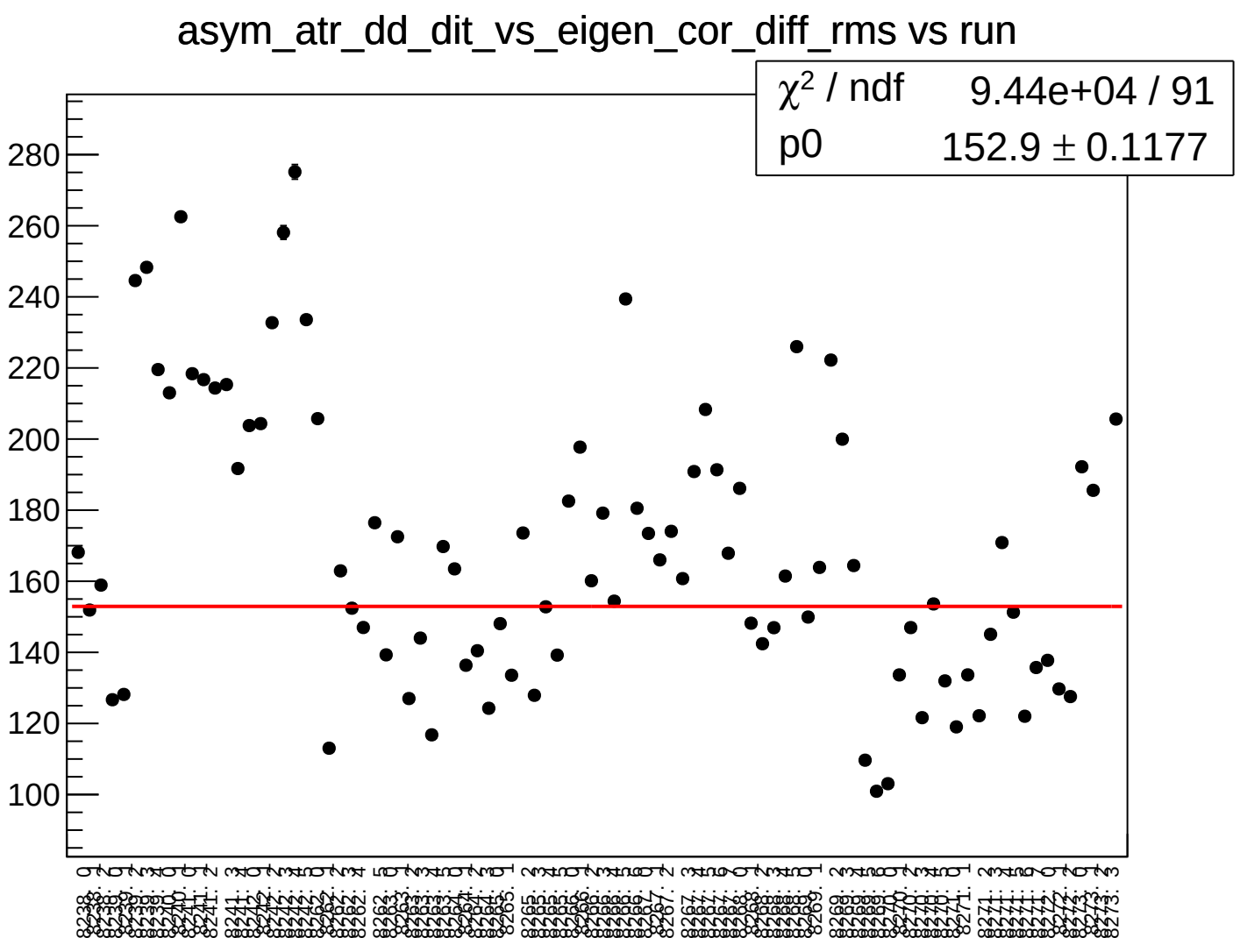

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.18 / 91
p0 −0.1831± 0.1664
pull
Entries 92
Mean 98.22
Std Dev 60.58

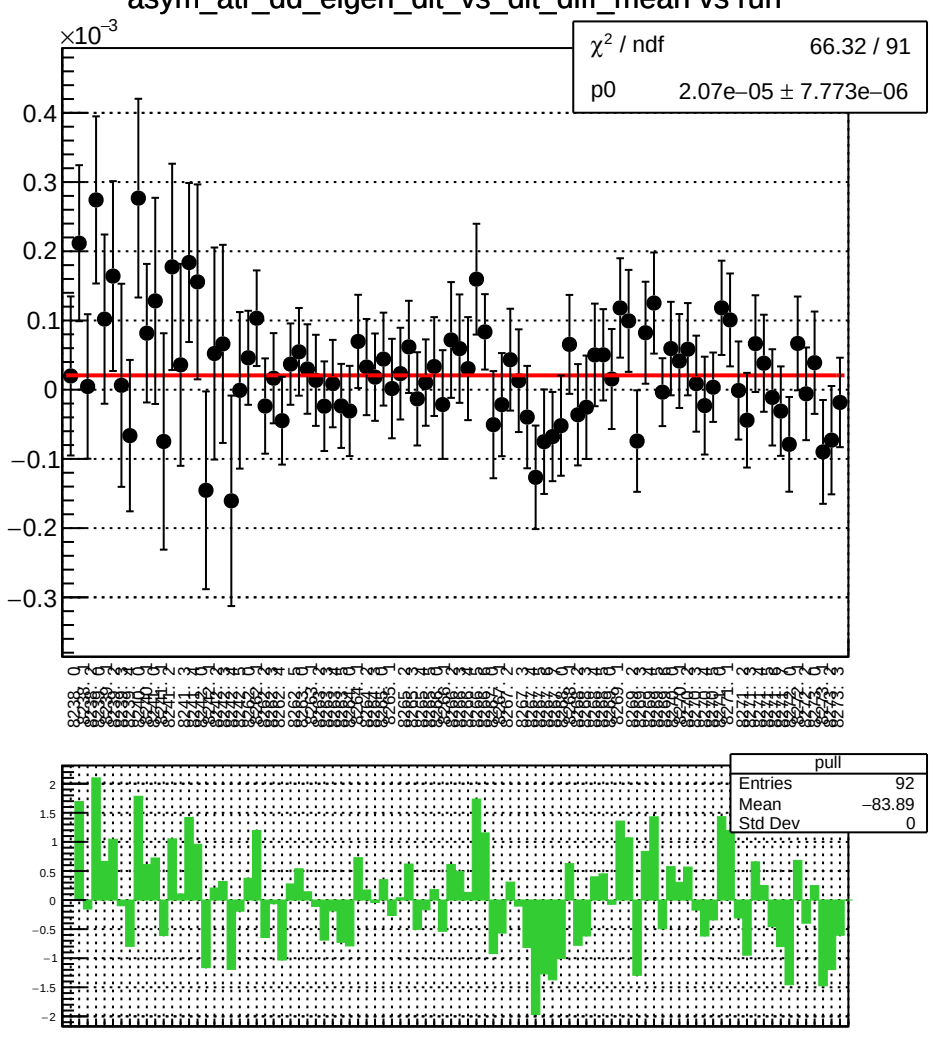

pull1D
Entries 92
Mean 0.01398
Std Dev 0.8918

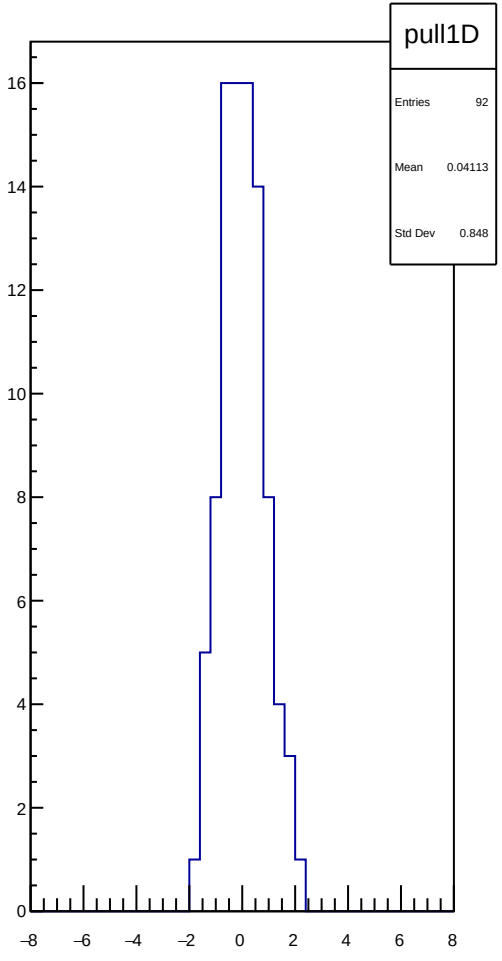

asym_atr_dd_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 9.44e+04 / 91
p0 152.9 ± 0.1177
280
260
240
220
200
180
160
140
120
100

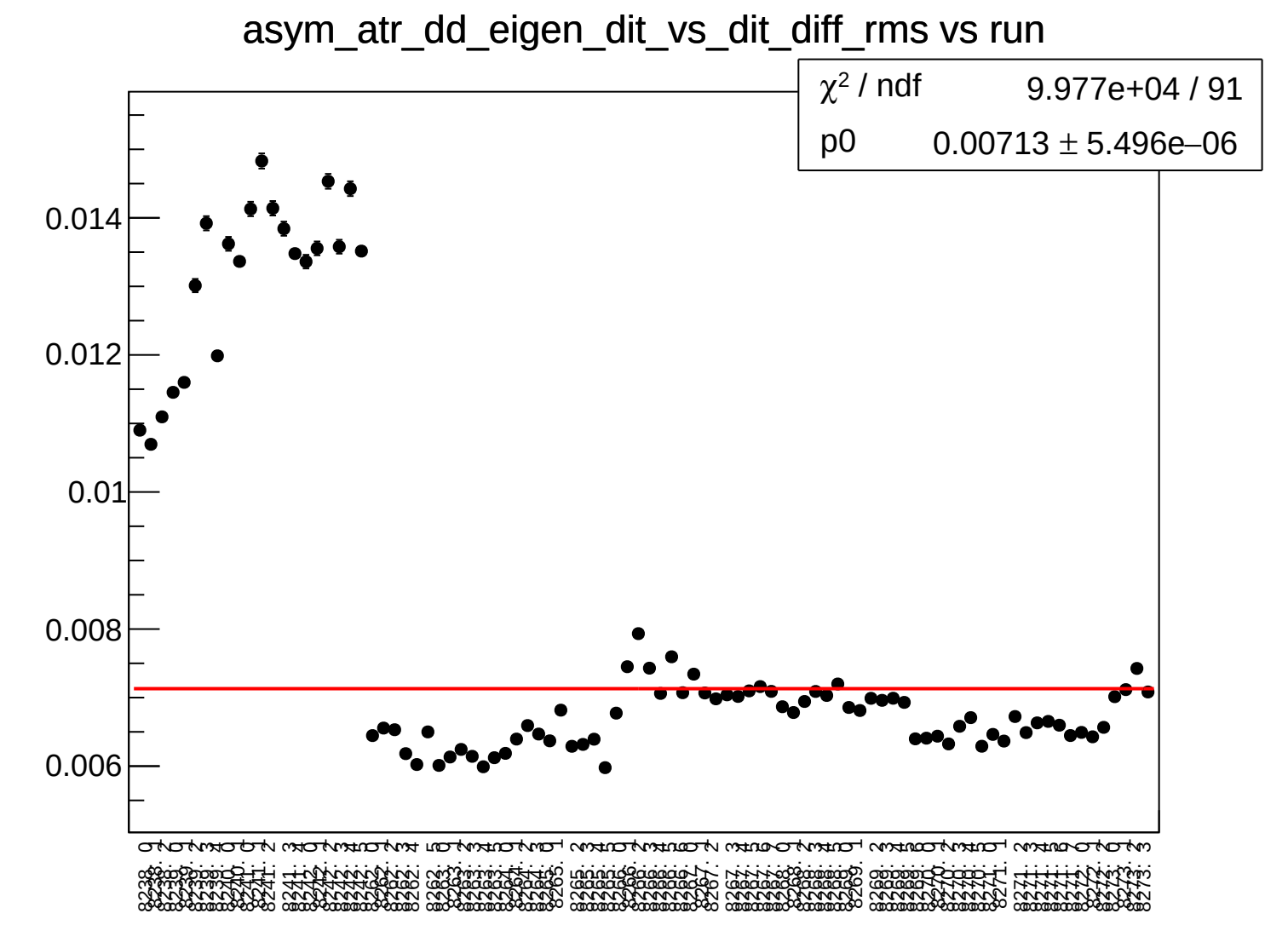

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.18 / 91
p0 −0.1831± 0.1664
pull
Entries 92
Mean 98.22
Std Dev 60.58

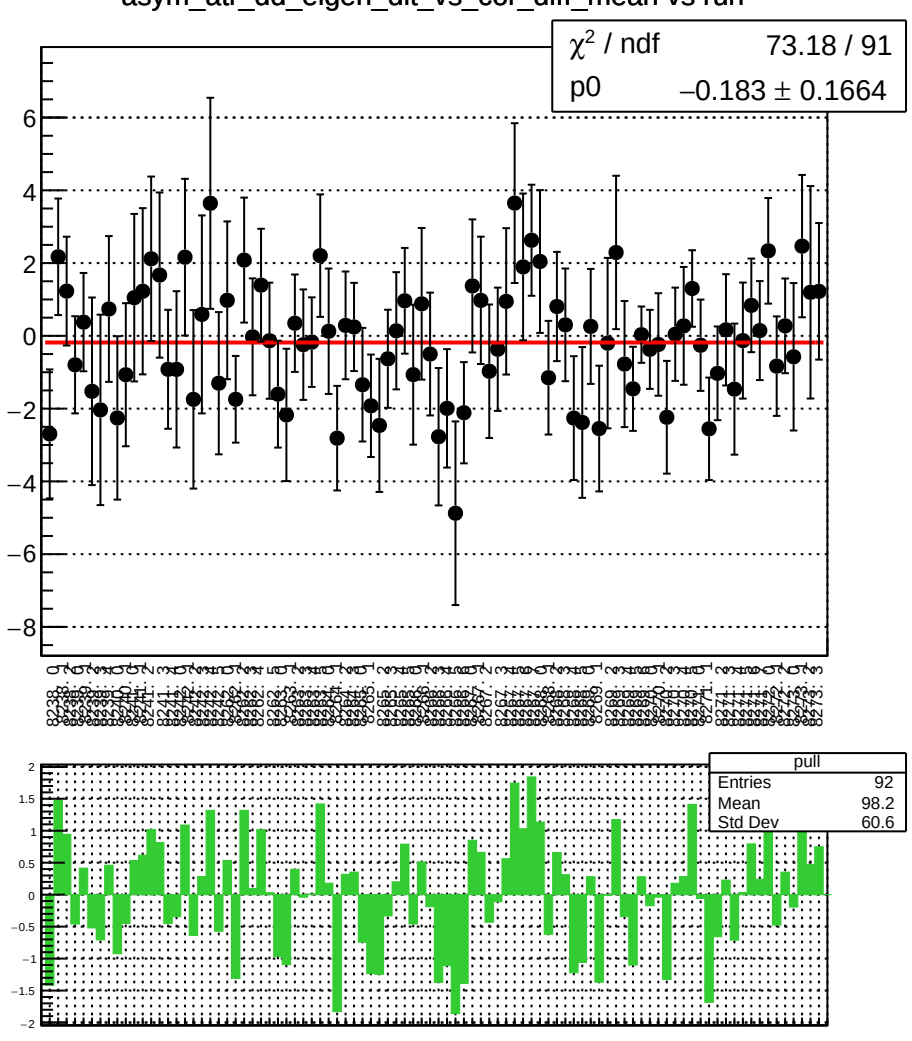

pull1D
Entries 92
Mean 0.01398
Std Dev 0.8918

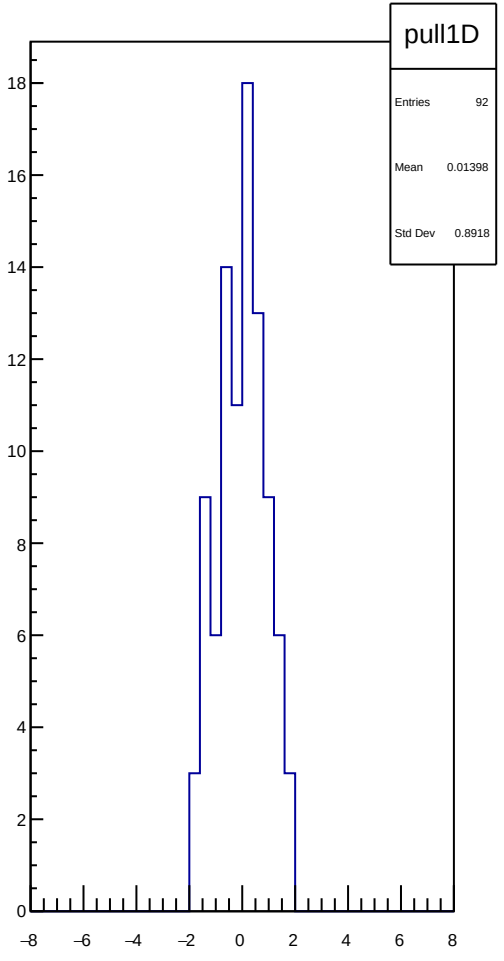

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.44e+04 / 91
p0 152.9 ± 0.1177
280
260
240
220
200
180
160
140
120
100

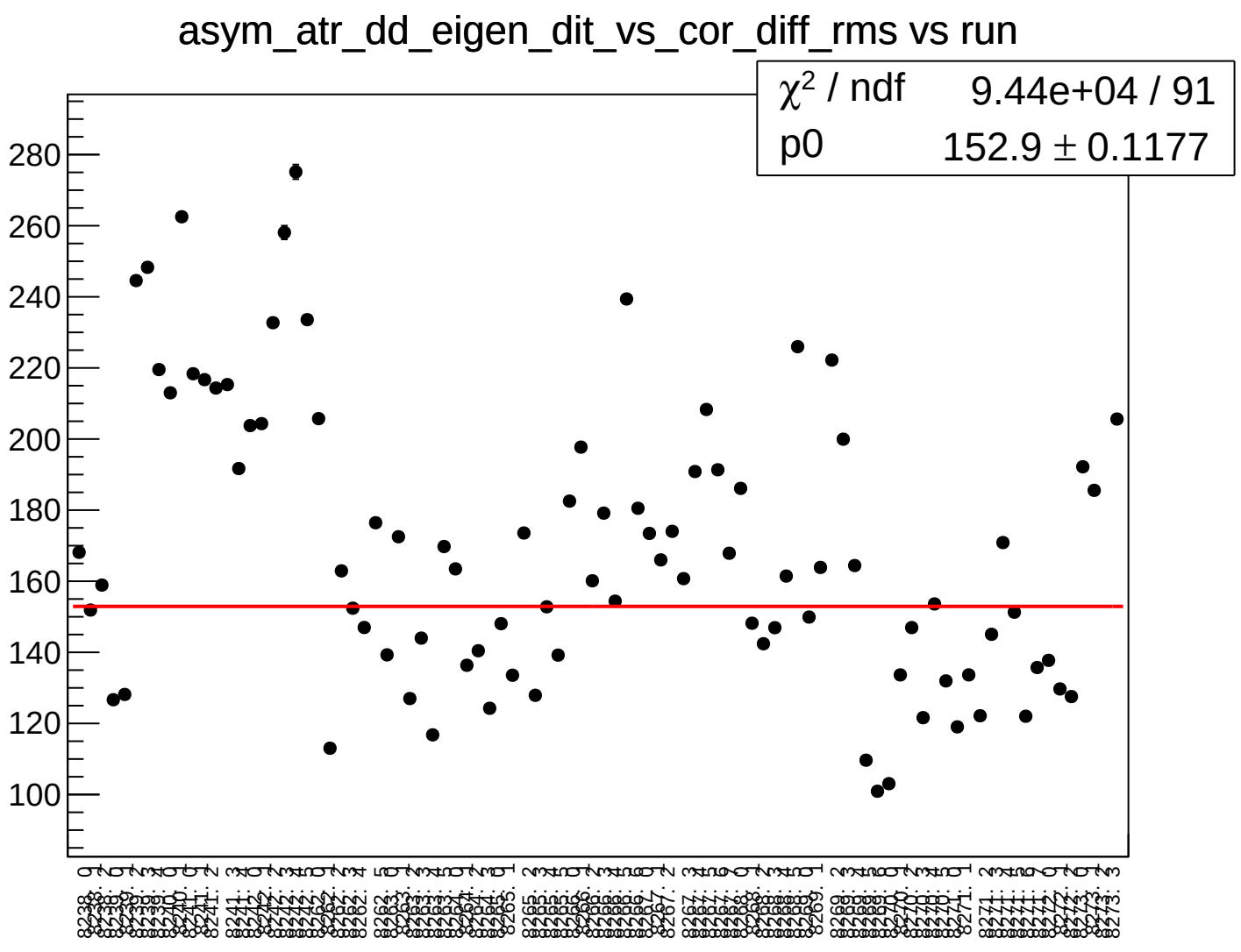

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.32 / 91
p0 2.07e−05 ± 7.773e−06
pull
Entries 92
Mean −83.89
Std Dev 0

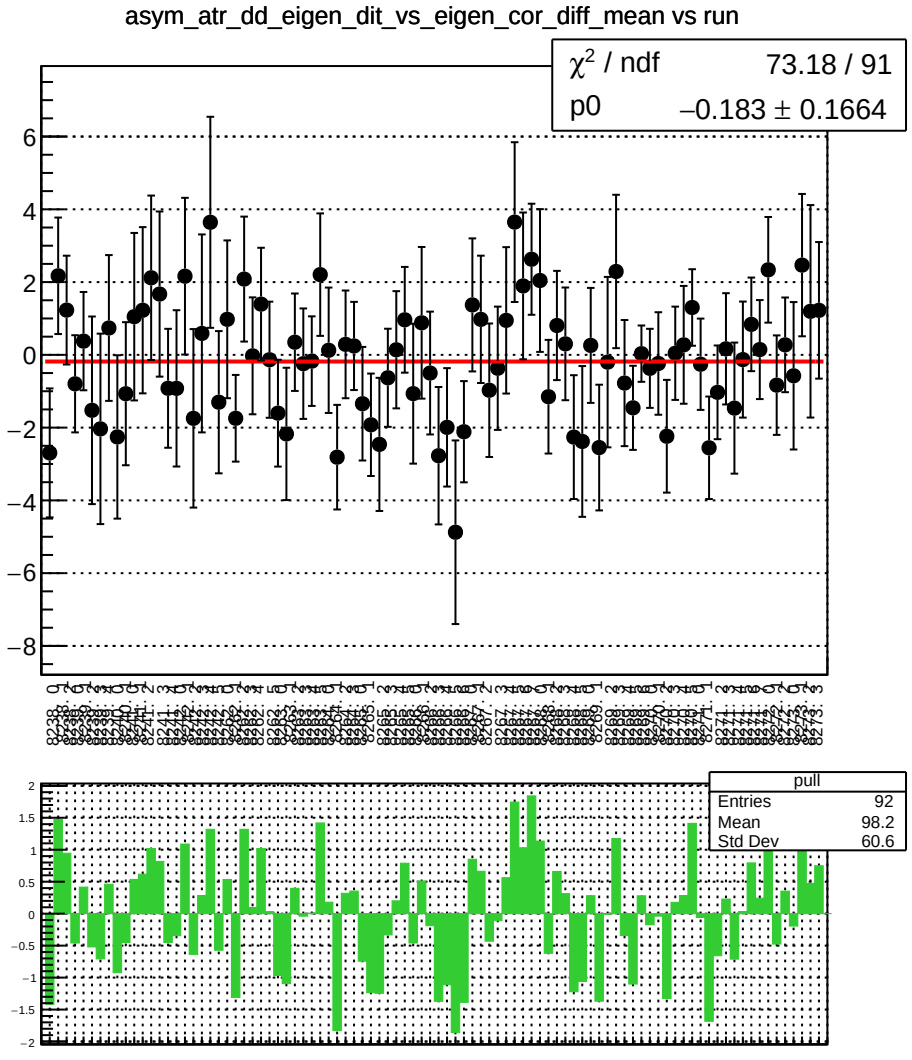

pull1D
Entries 92
Mean 0.04113
Std Dev 0.848

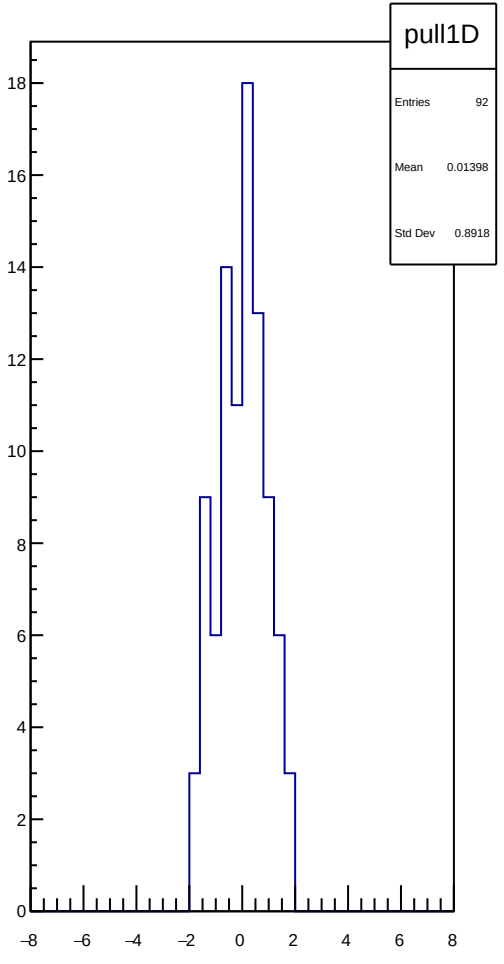

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.977e+04 / 91
p0 0.00713 ± 5.496e−06
0.014
0.012
0.01
0.008
0.006

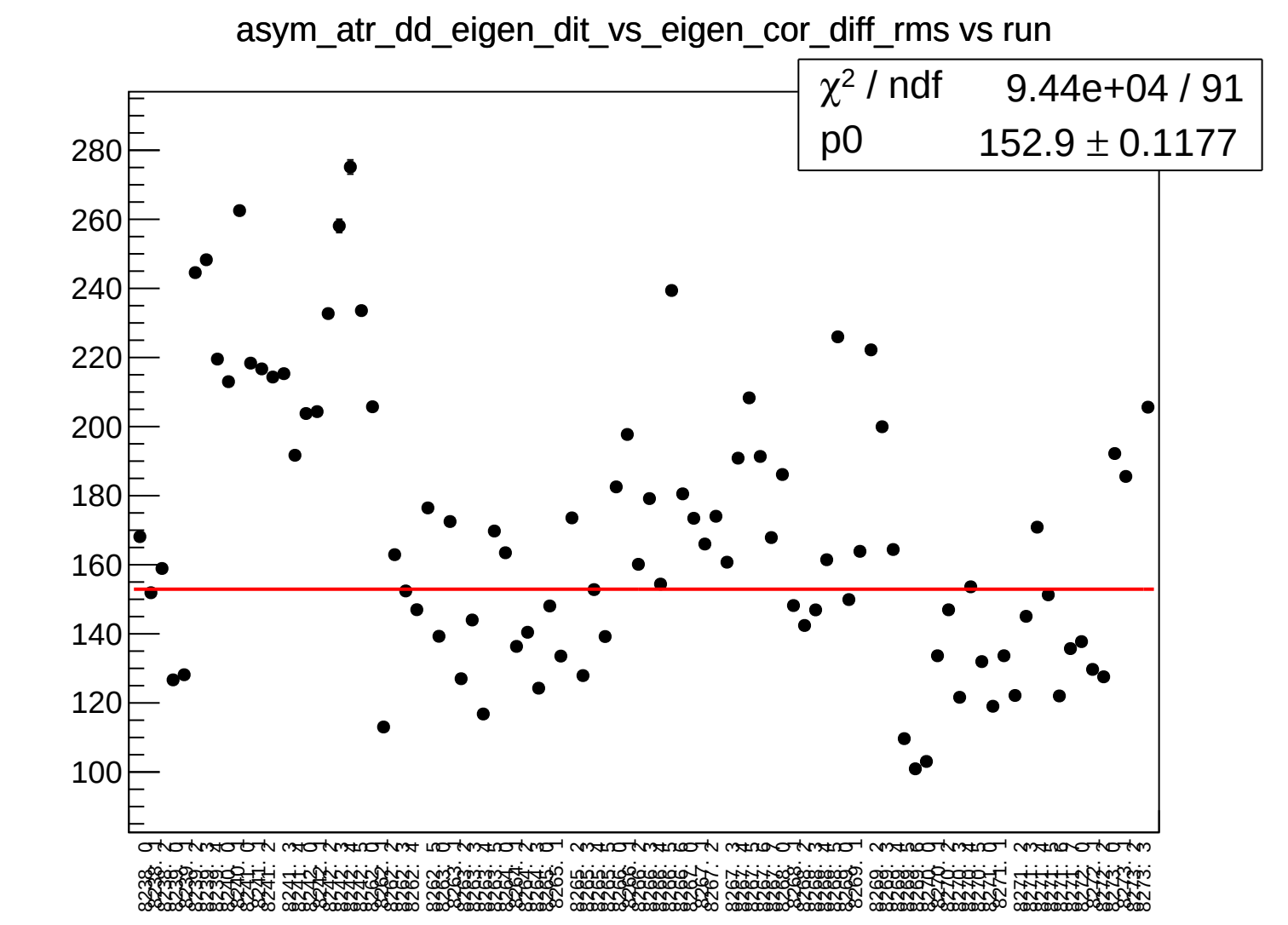

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.18 / 91
p0 −0.183 ± 0.1664
pull
Entries 92
Mean 98.2
Std Dev 60.6

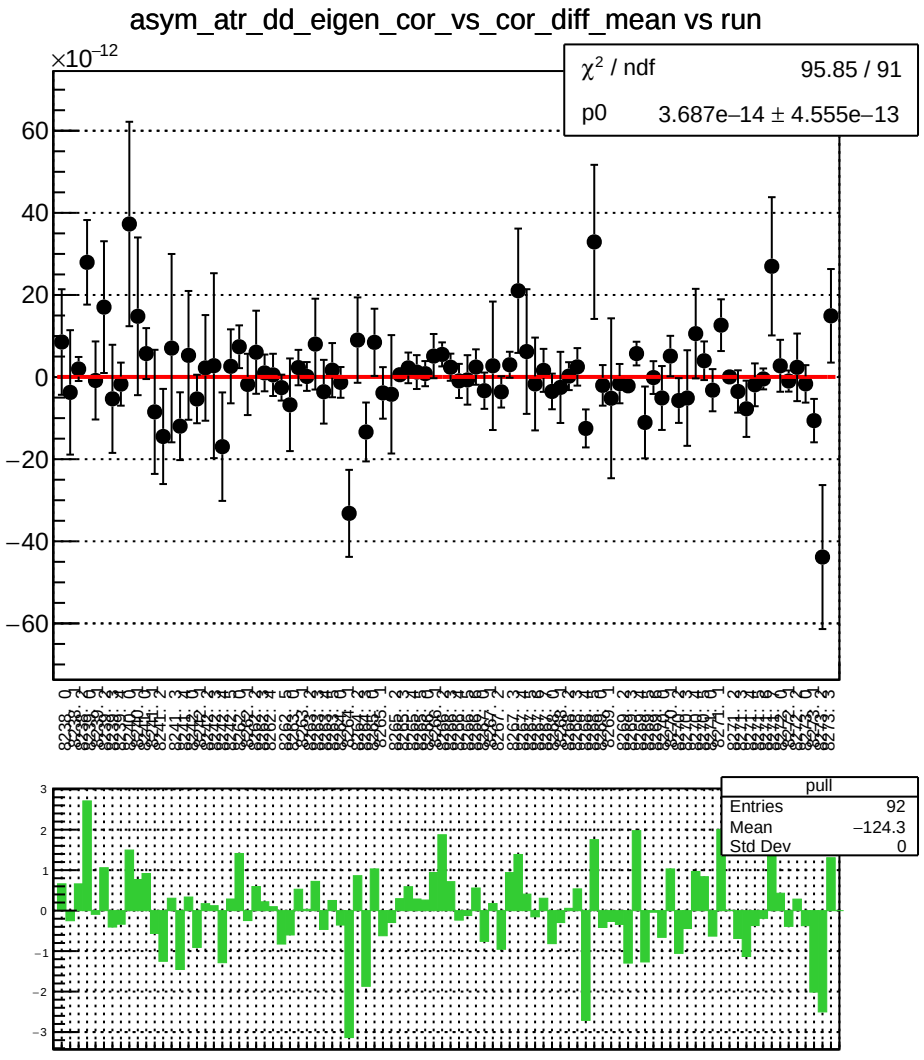

pull1D
Entries 92
Mean 0.01398
Std Dev 0.8918

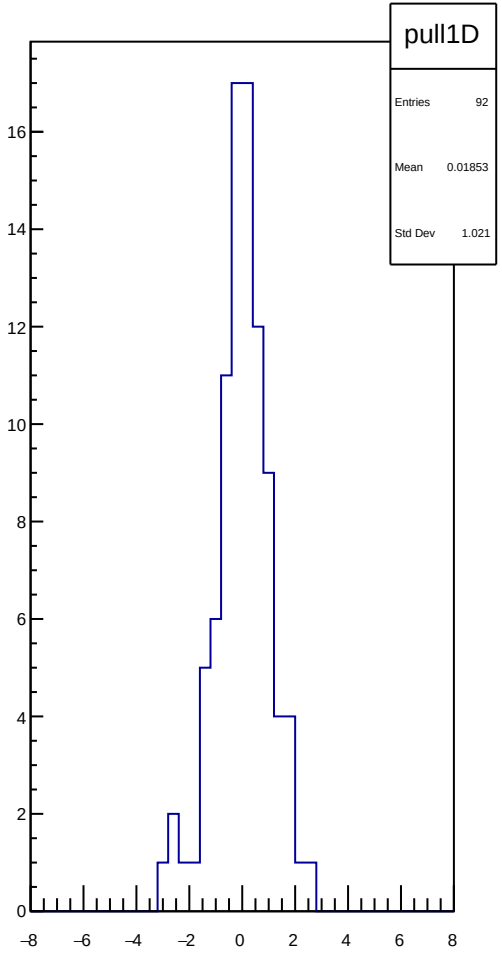

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.44e+04 / 91
p0 152.9 ± 0.1177
280
260
240
220
200
180
160
140
120
100

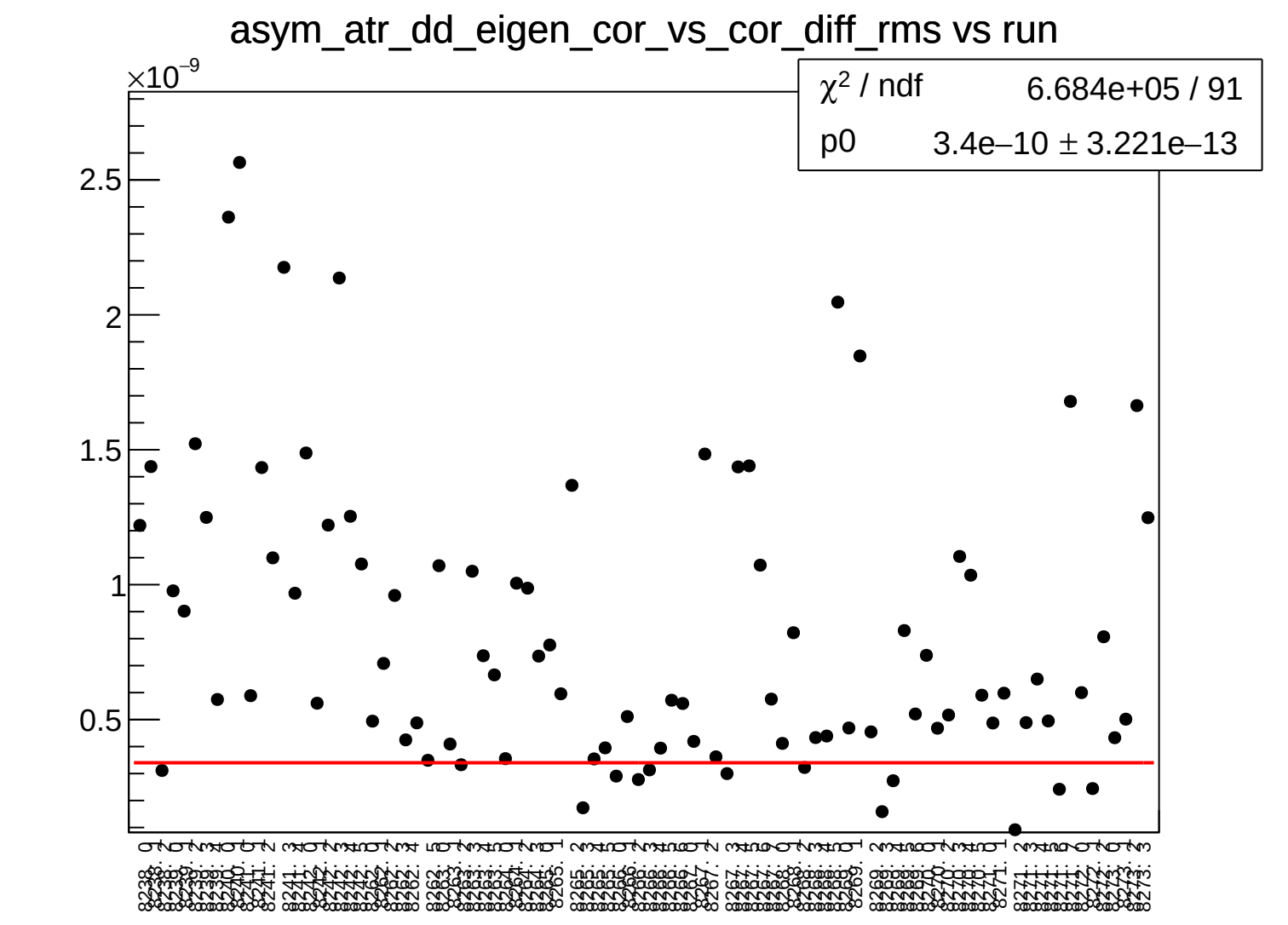

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.18 / 91
p0 −0.183 ± 0.1664
pull
Entries 92
Mean 98.2
Std Dev 60.6

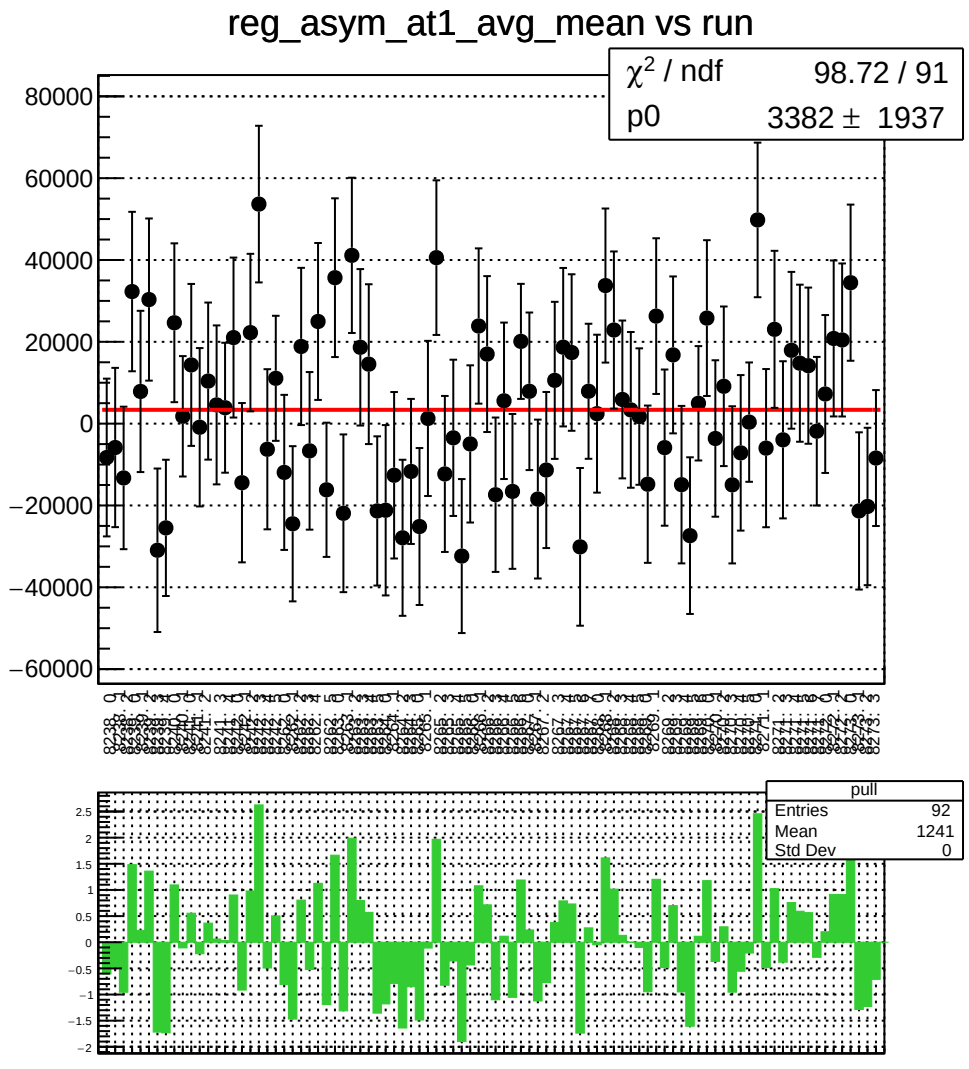

pull1D
Entries 92
Mean 0.01398
Std Dev 0.8918

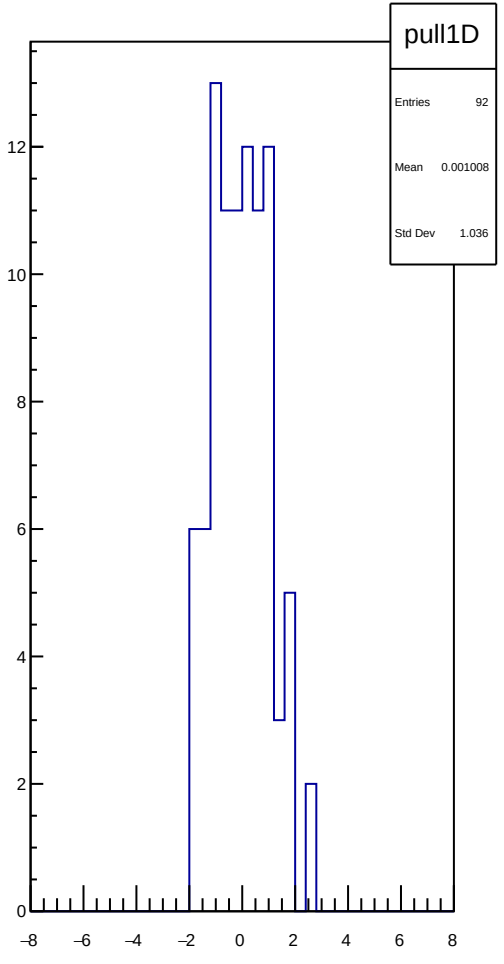

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.44e+04 / 91
p0 152.9 ± 0.1177
280
260
240
220
200
180
160
140
120
100

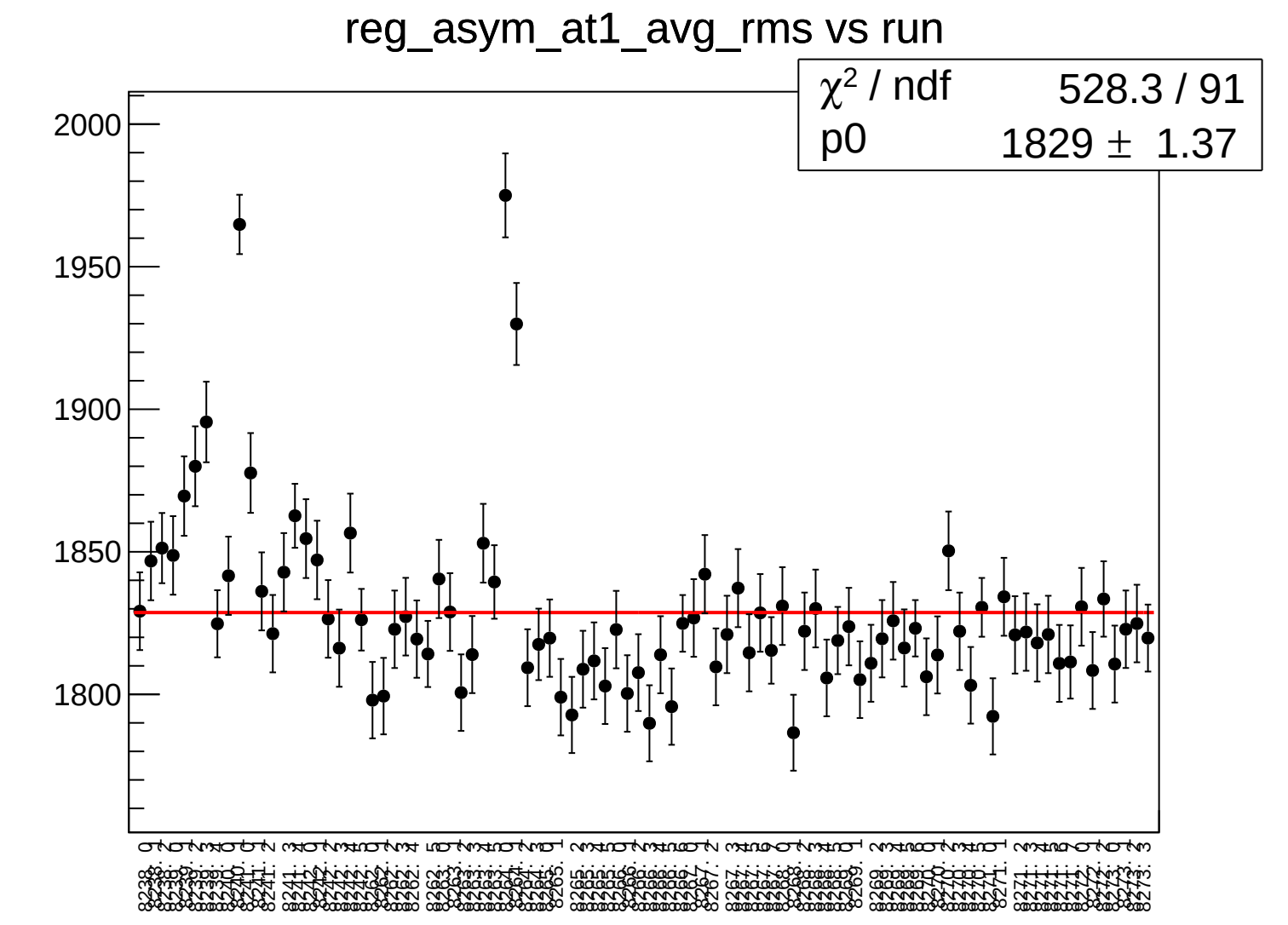

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.85 / 91
p0 3.687e−14 ± 4.555e−13
pull
Entries 92
Mean −124.3
Std Dev 0

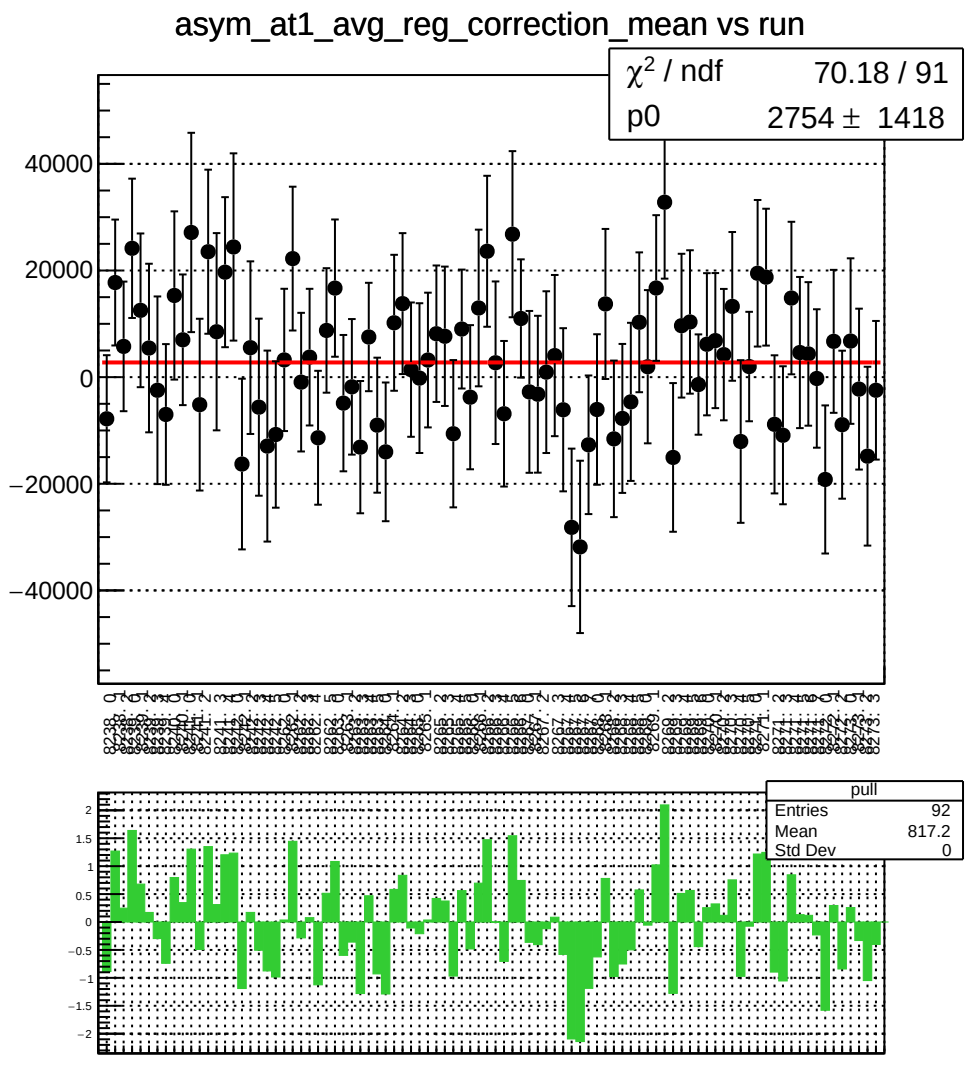

pull1D
Entries 92
Mean 0.01853
Std Dev 1.021

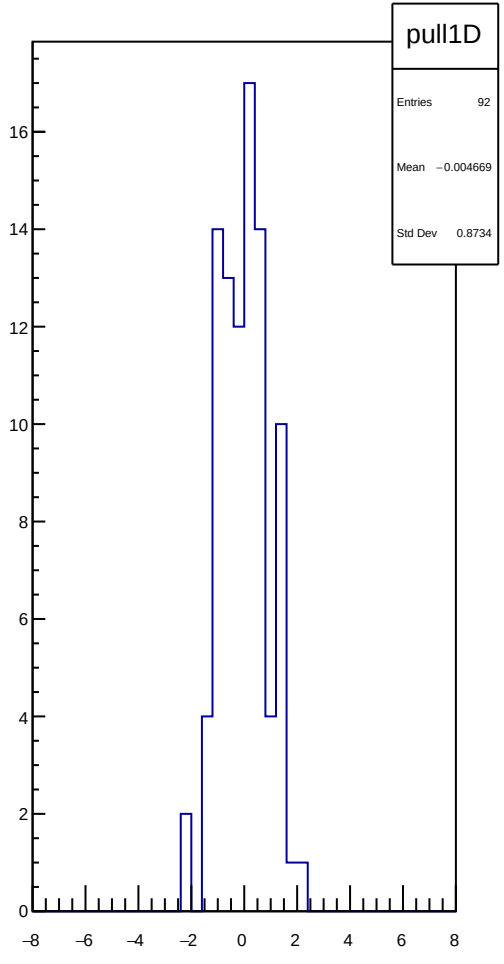

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.684e+05 / 91
p0 3.4e−10 ± 3.221e−13
2.5
2
1.5
1
0.5

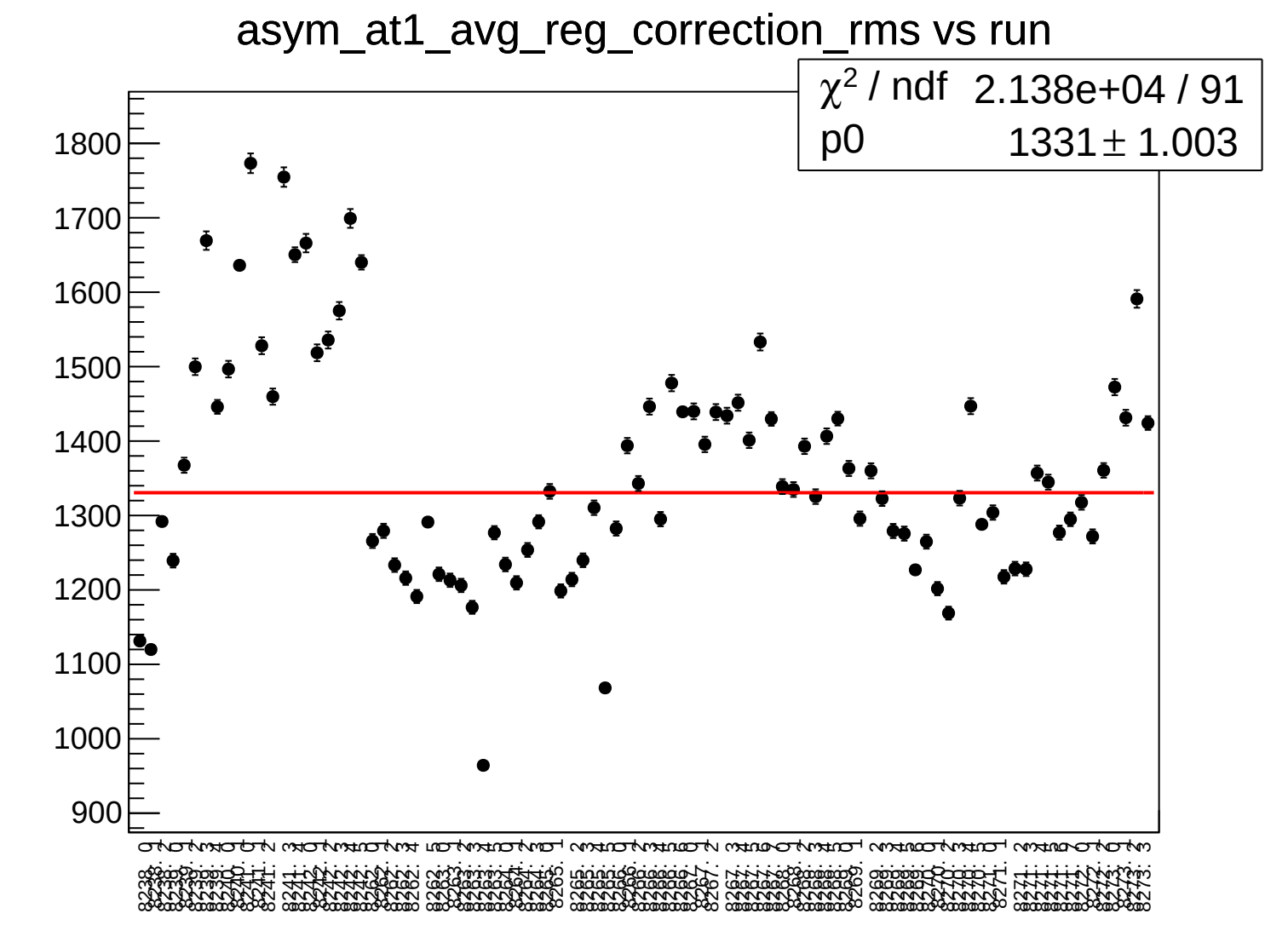

reg_asym_at1_avg_mean vs run
χ² / ndf 98.72 / 91
p0 3382 ± 1937
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 1241
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

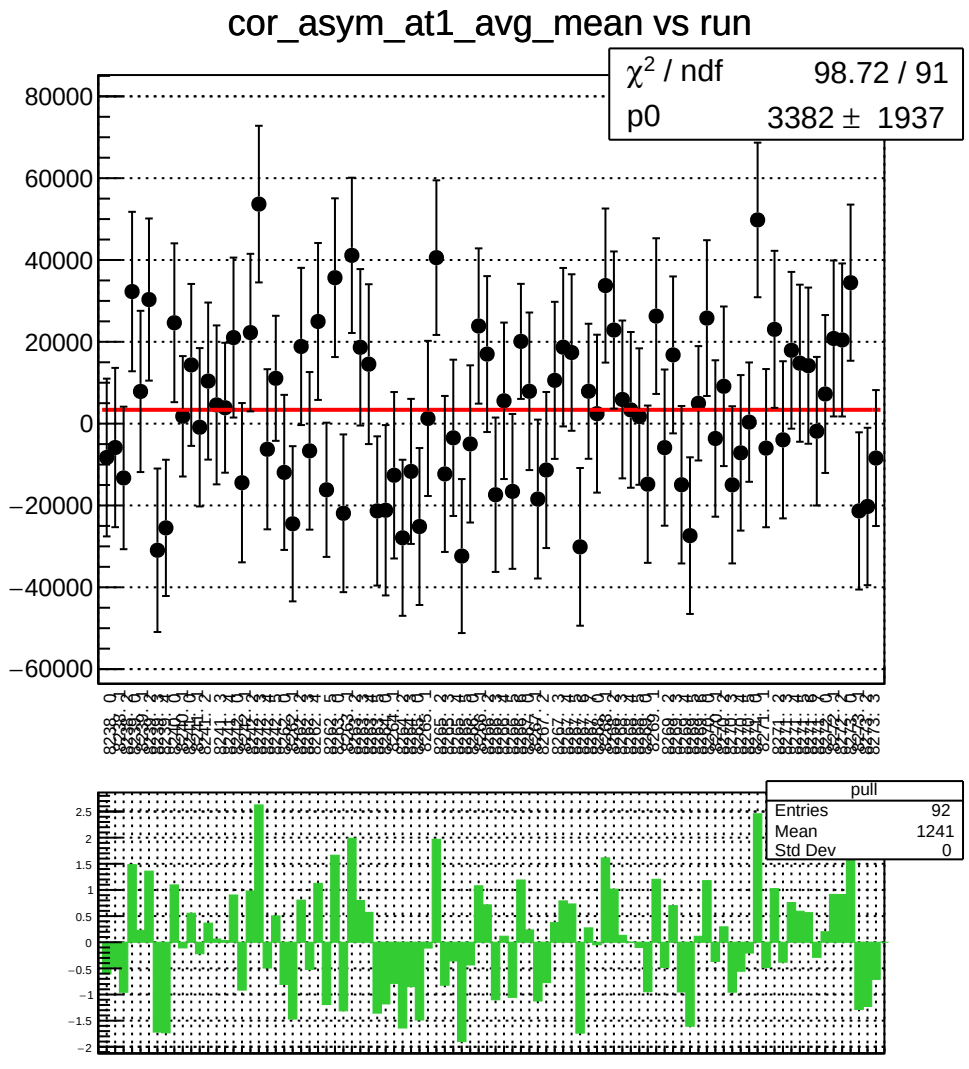

pull1D
Entries 92
Mean 0.001008
Std Dev 1.036
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

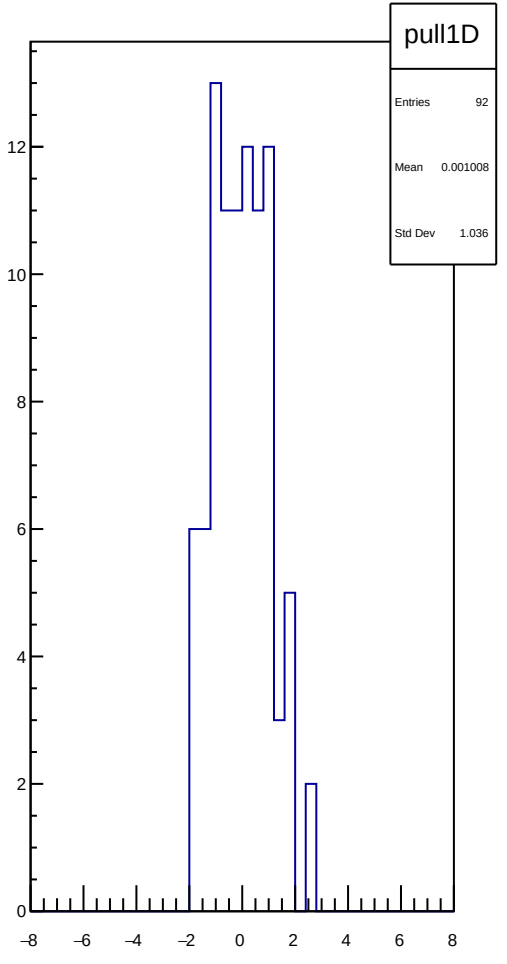

reg_asym_at1_avg_rms vs run
χ² / ndf 528.3 / 91
p0 1829 ± 1.37
2000
1950
1900
1850
1800

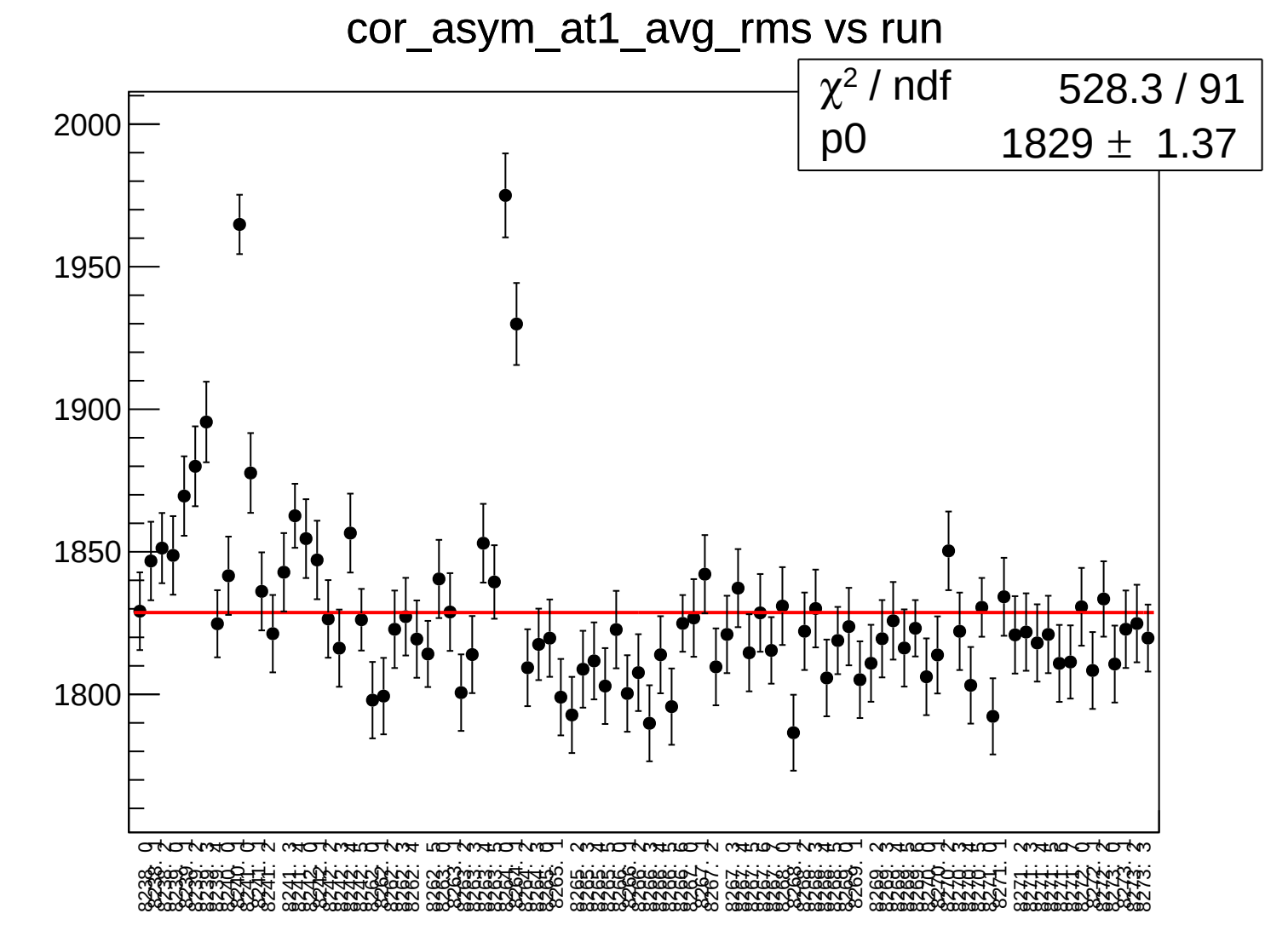

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 70.18 / 91
p0 2754 ± 1418
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 817.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

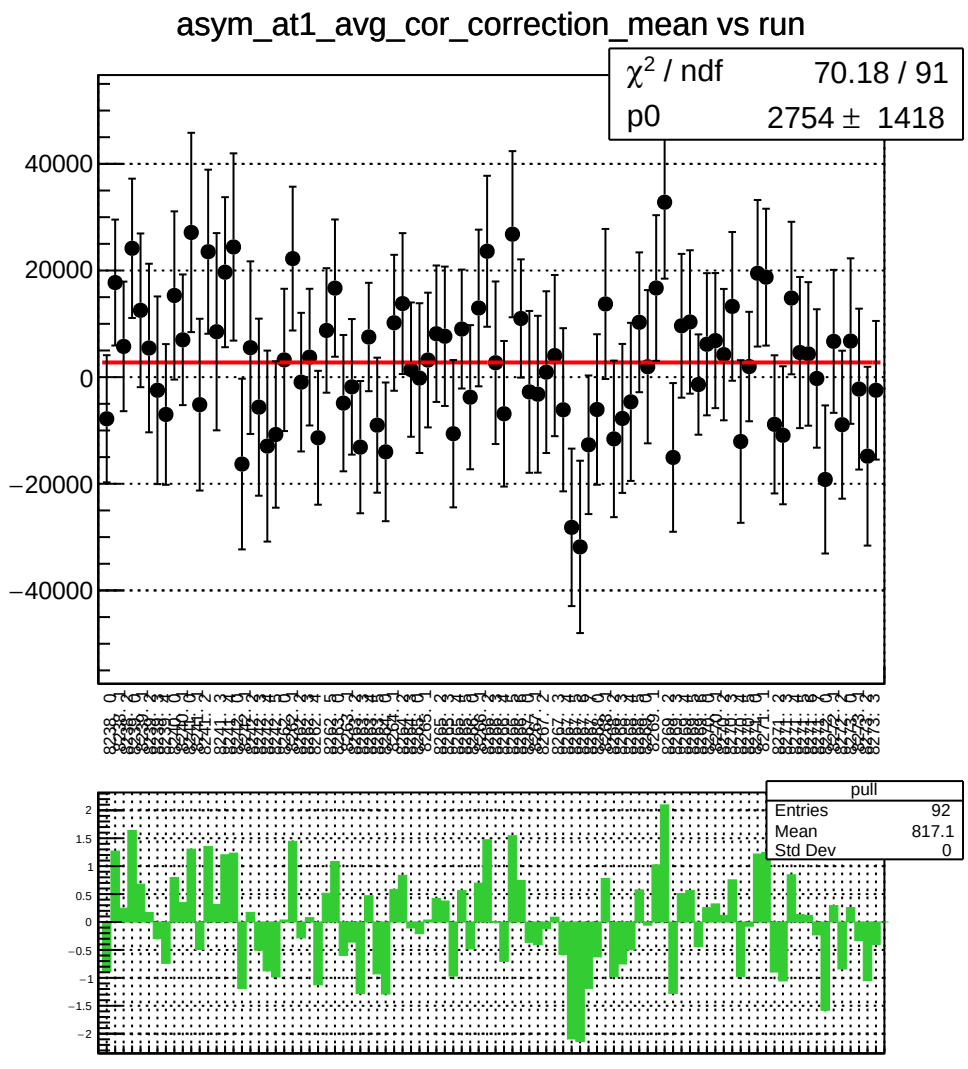

pull1D
Entries 92
Mean −0.004669
Std Dev 0.8734
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

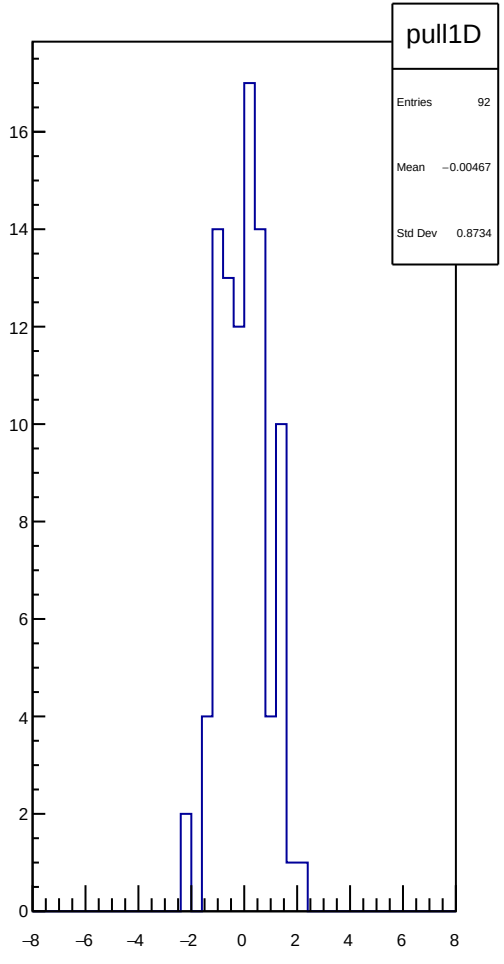

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 2.138e+04 / 91
p0 1331 ± 1.003
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

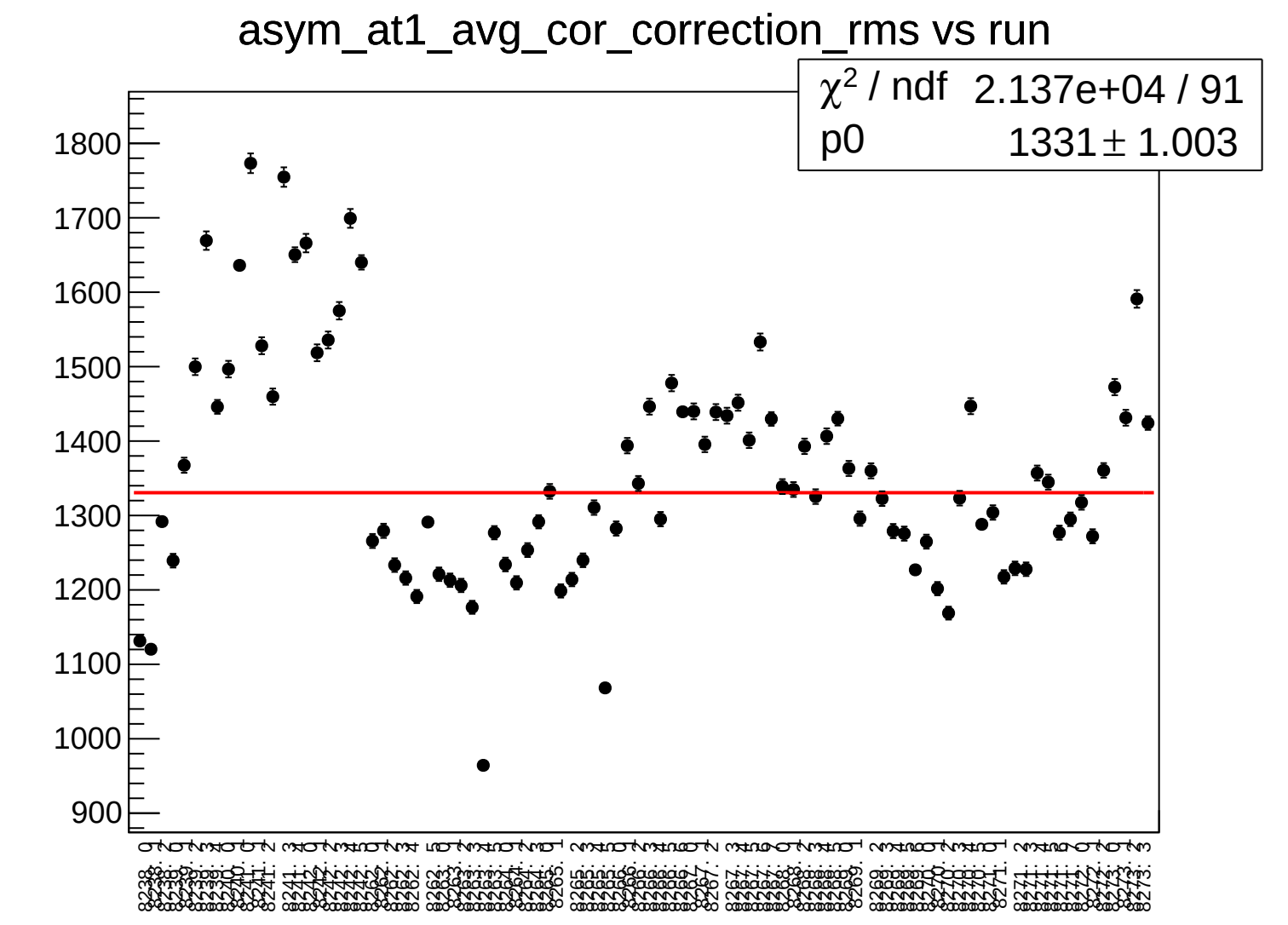

cor_asym_at1_avg_mean vs run
χ² / ndf 98.72 / 91
p0 3382 ± 1937
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 1241
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

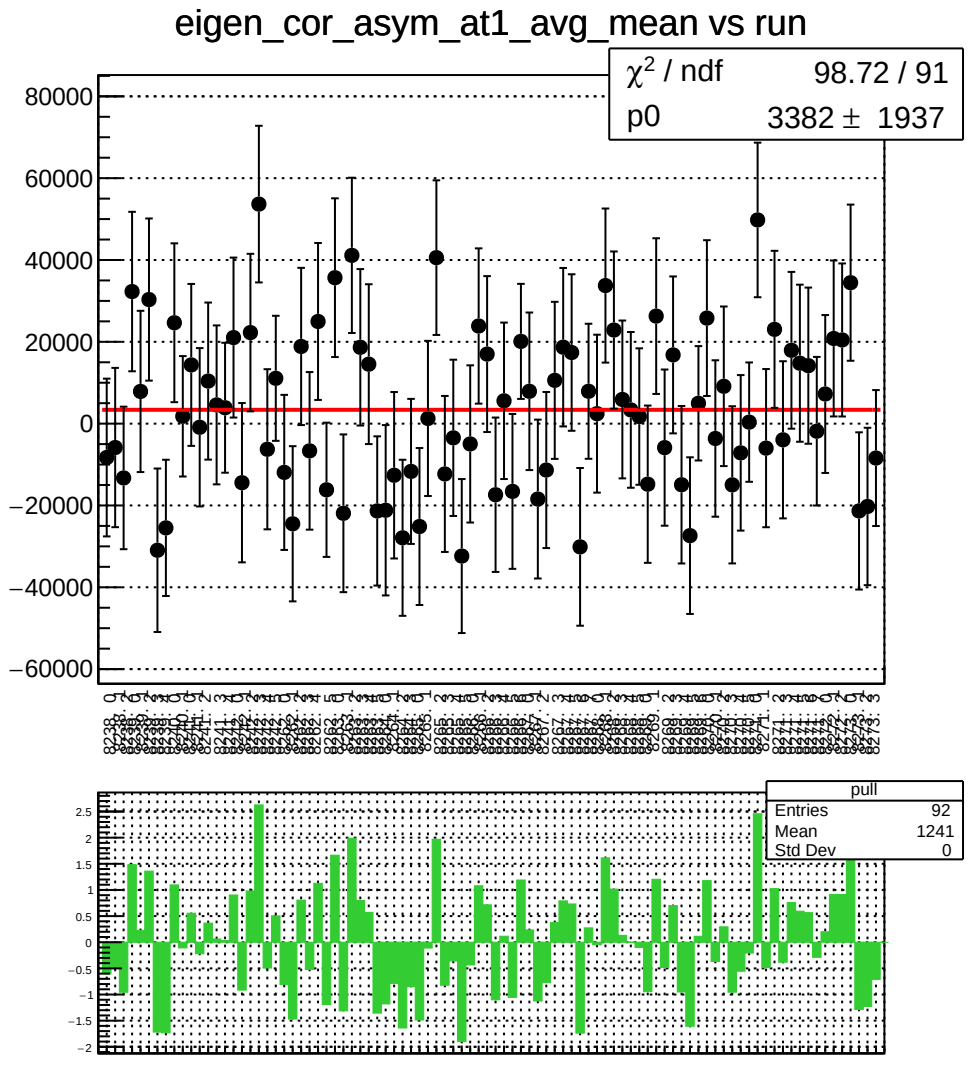

pull1D
Entries 92
Mean 0.001008
Std Dev 1.036
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

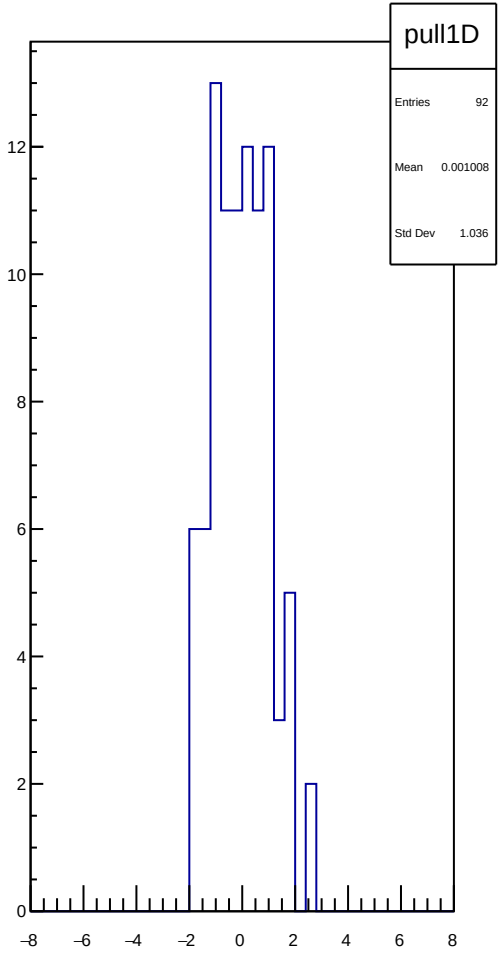

cor_asym_at1_avg_rms vs run
χ² / ndf 528.3 / 91
p0 1829 ± 1.37
2000
1950
1900
1850
1800

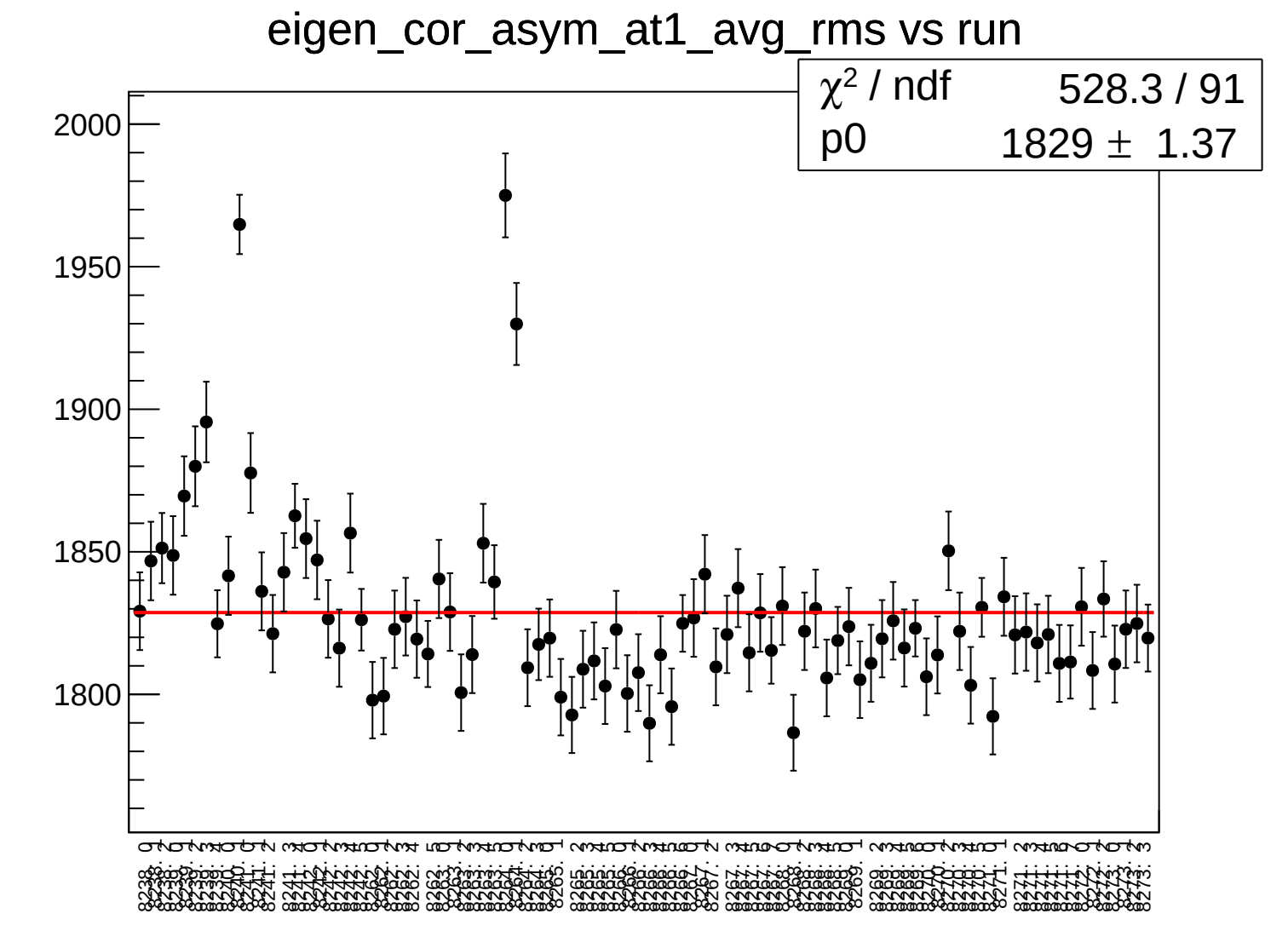

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 70.18 / 91
p0 2754 ± 1418
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 817.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

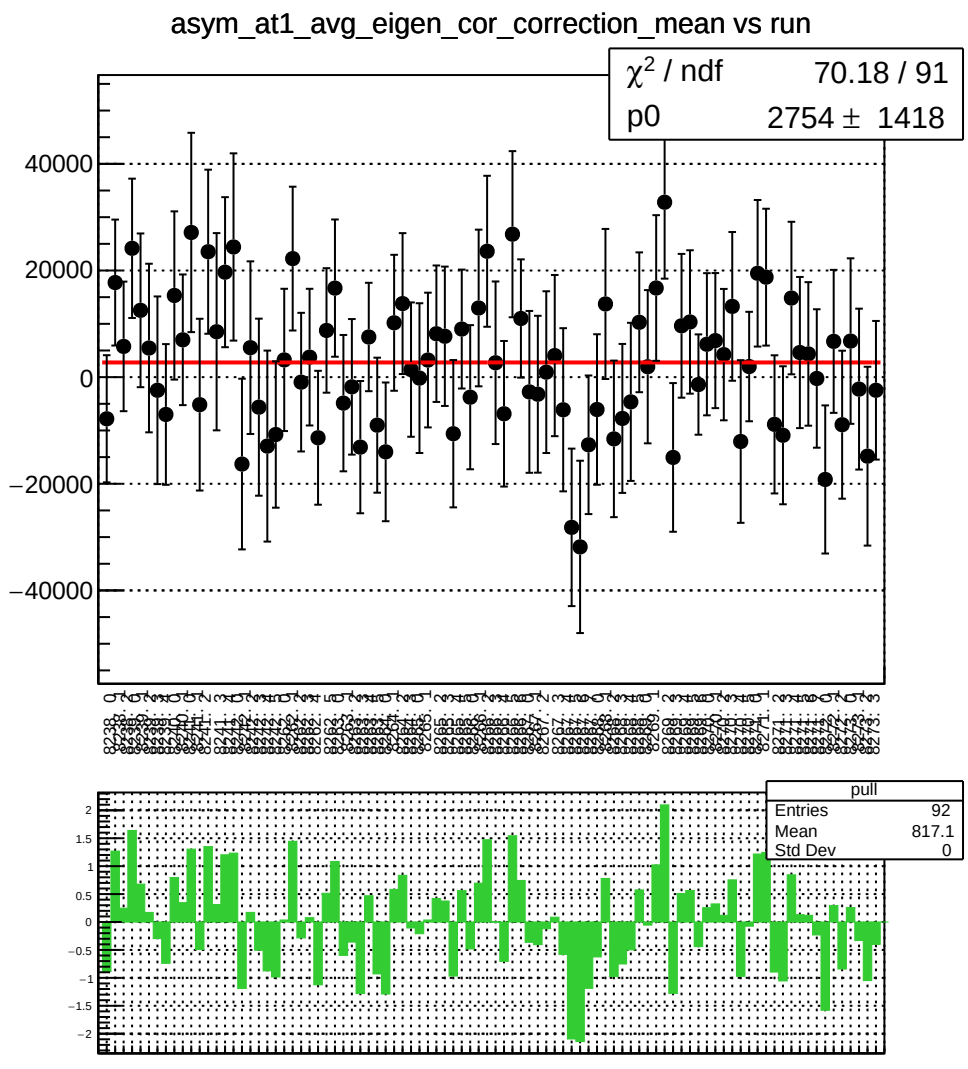

pull1D
Entries 92
Mean −0.00467
Std Dev 0.8734
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

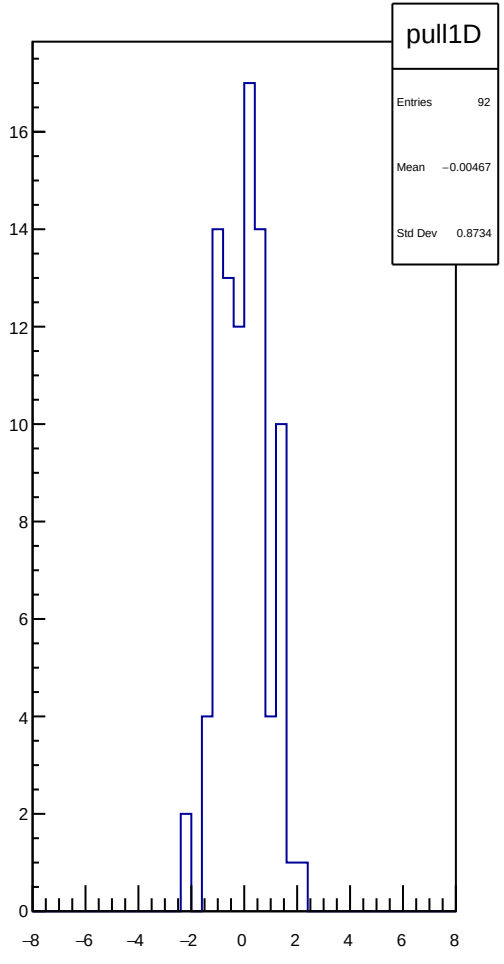

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 2.137e+04 / 91
p0 1331 ± 1.003
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

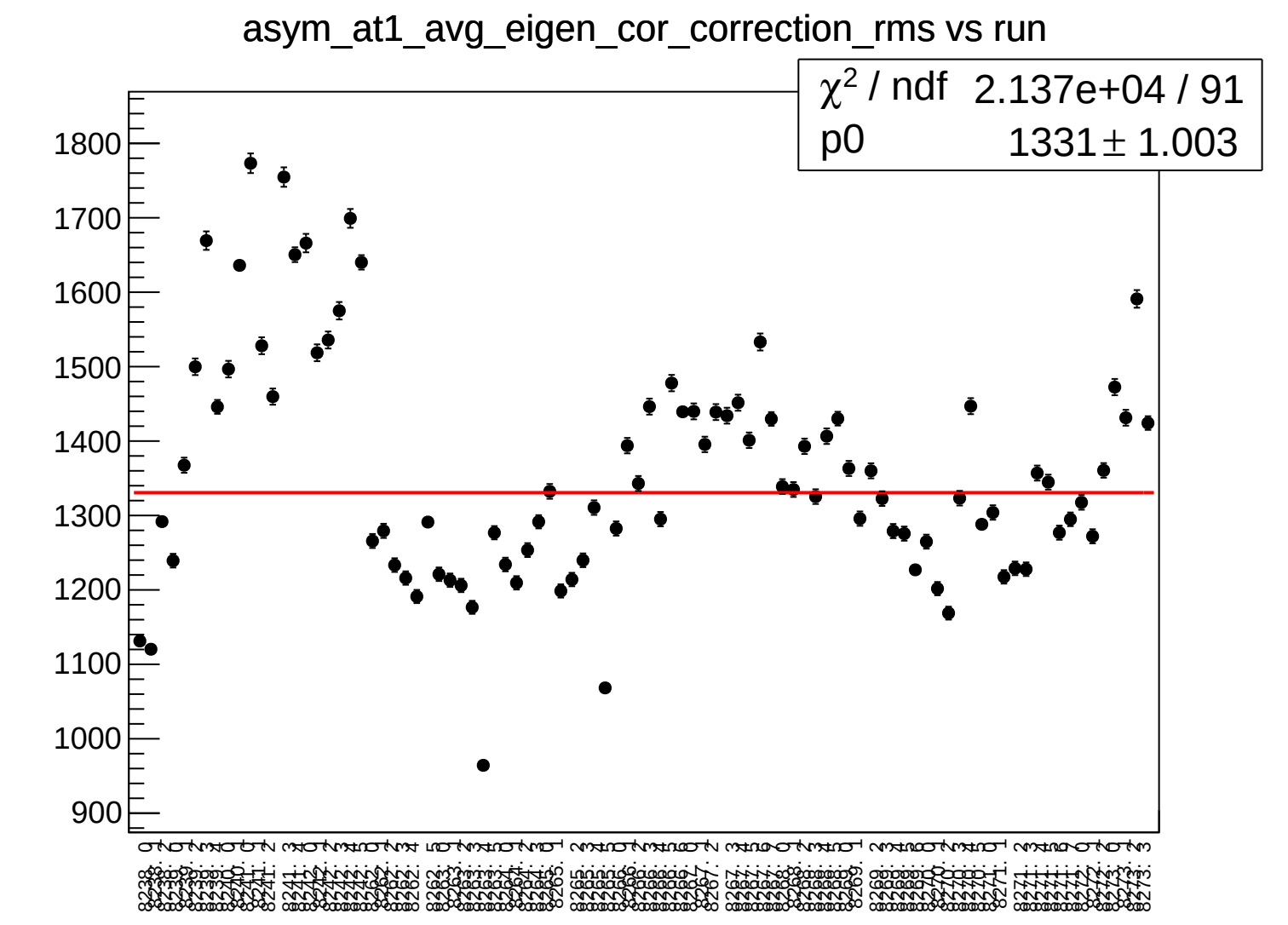

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 98.72 / 91
p0 3382 ± 1937
pull
Entries 92
Mean 1241
Std Dev 0

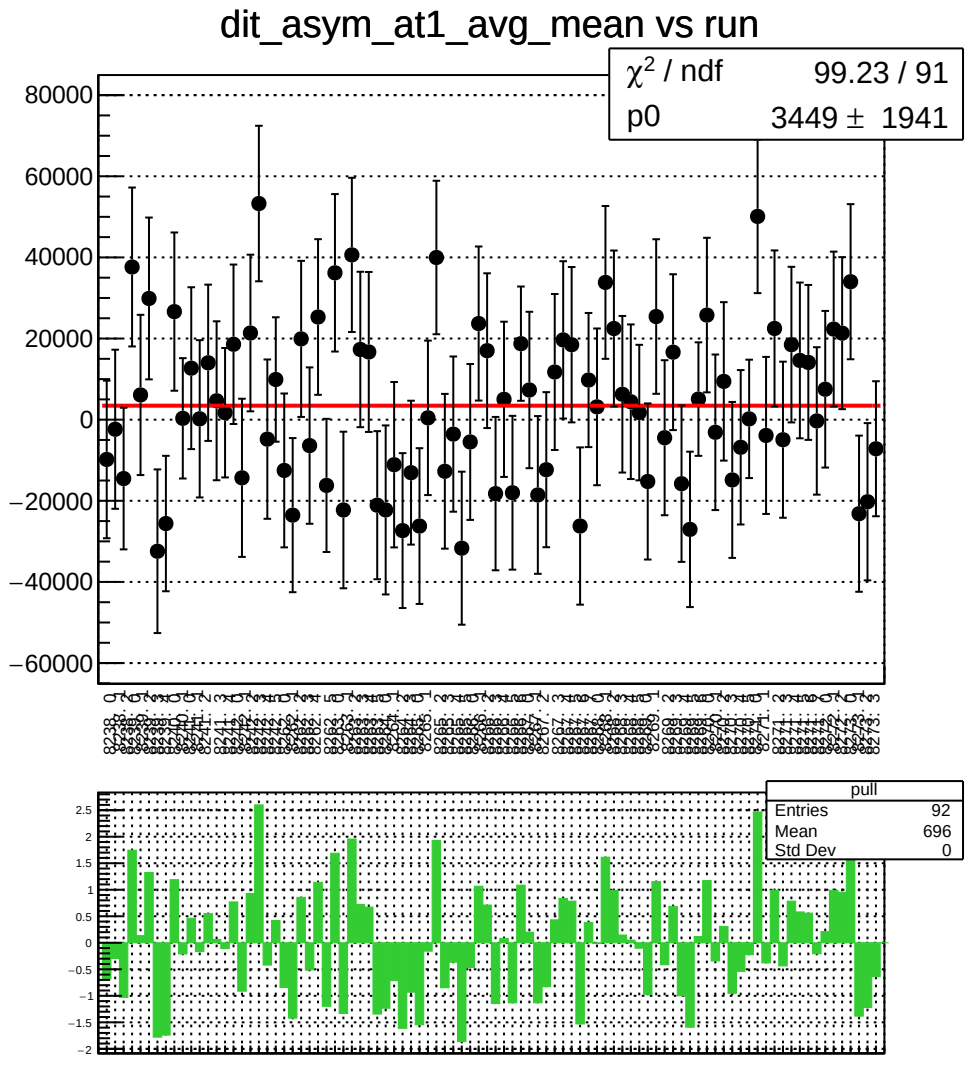

pull1D
Entries 92
Mean 0.001008
Std Dev 1.036

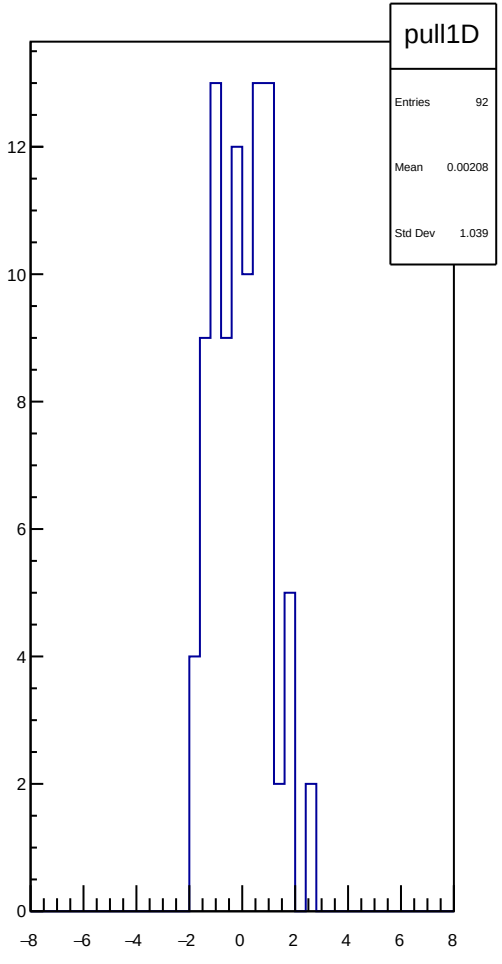

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 528.3 / 91
p0 1829 ± 1.37
2000
1950
1900
1850
1800

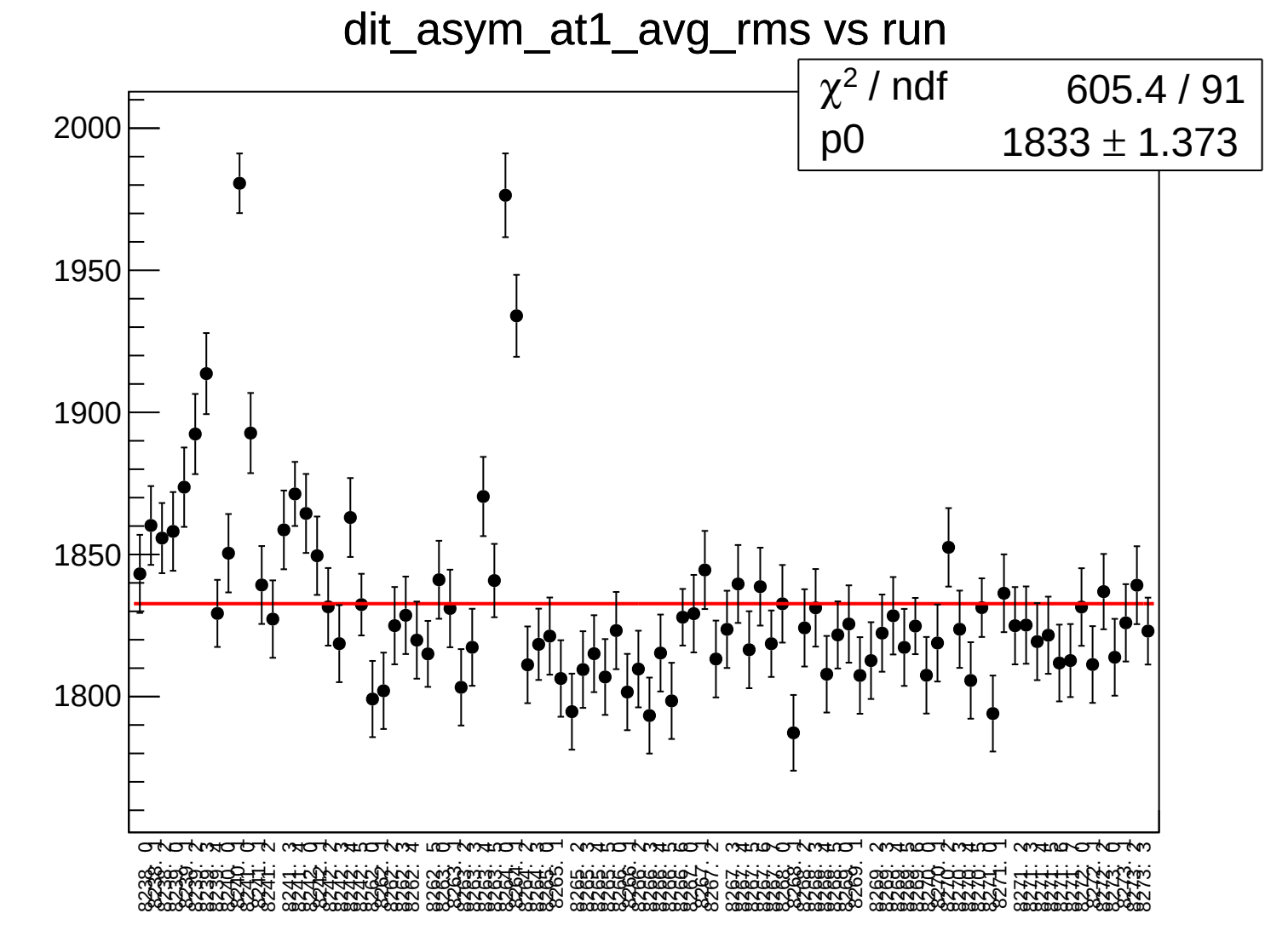

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.18 / 91
p0 2754 ± 1418
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 817.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

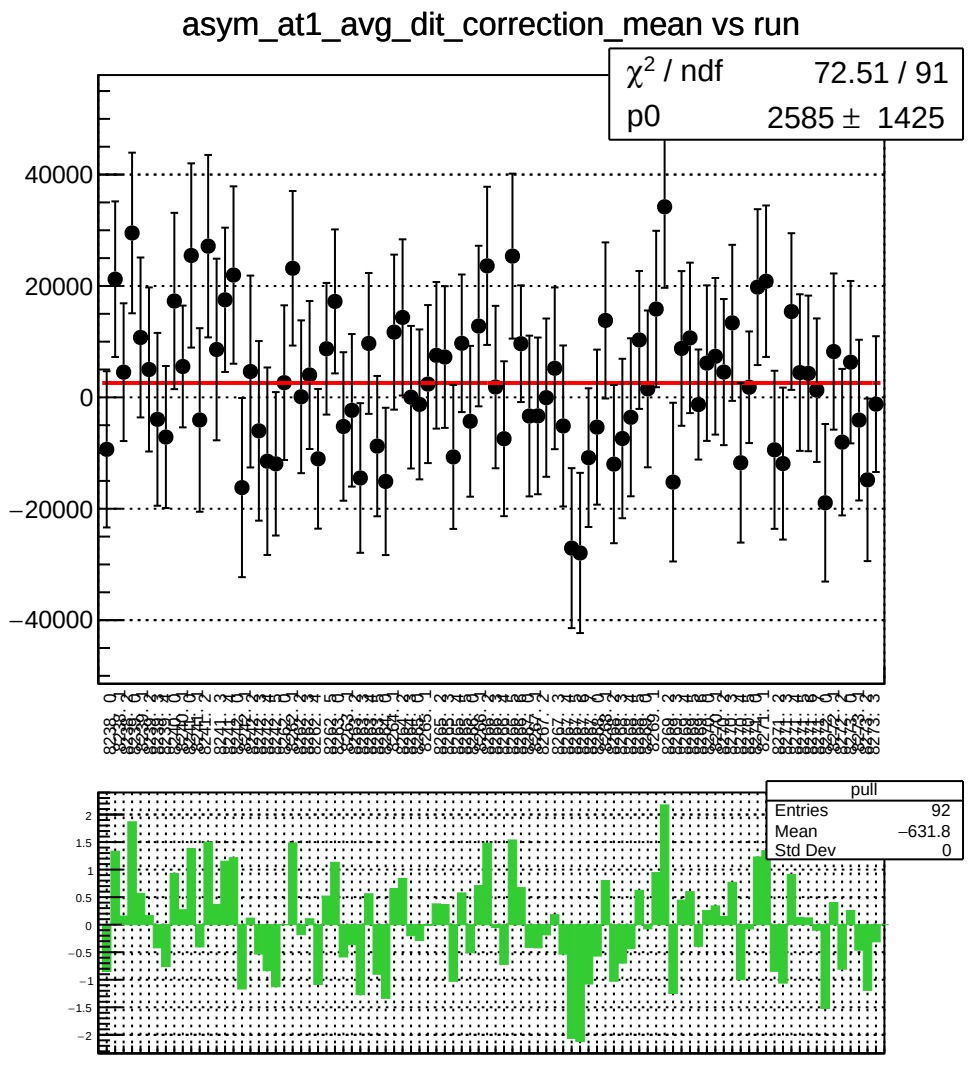

pull1D
Entries 92
Mean −0.00467
Std Dev 0.8734
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

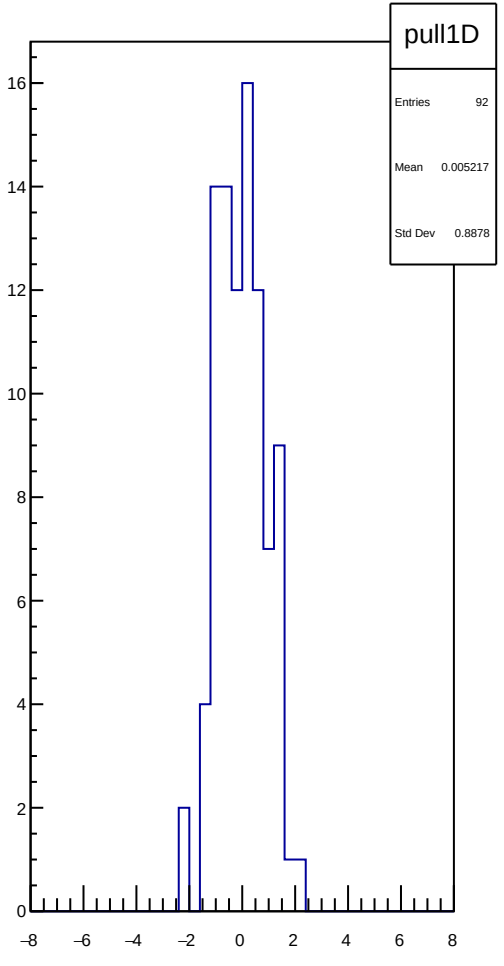

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.137e+04 / 91
p0 1331 ± 1.003
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

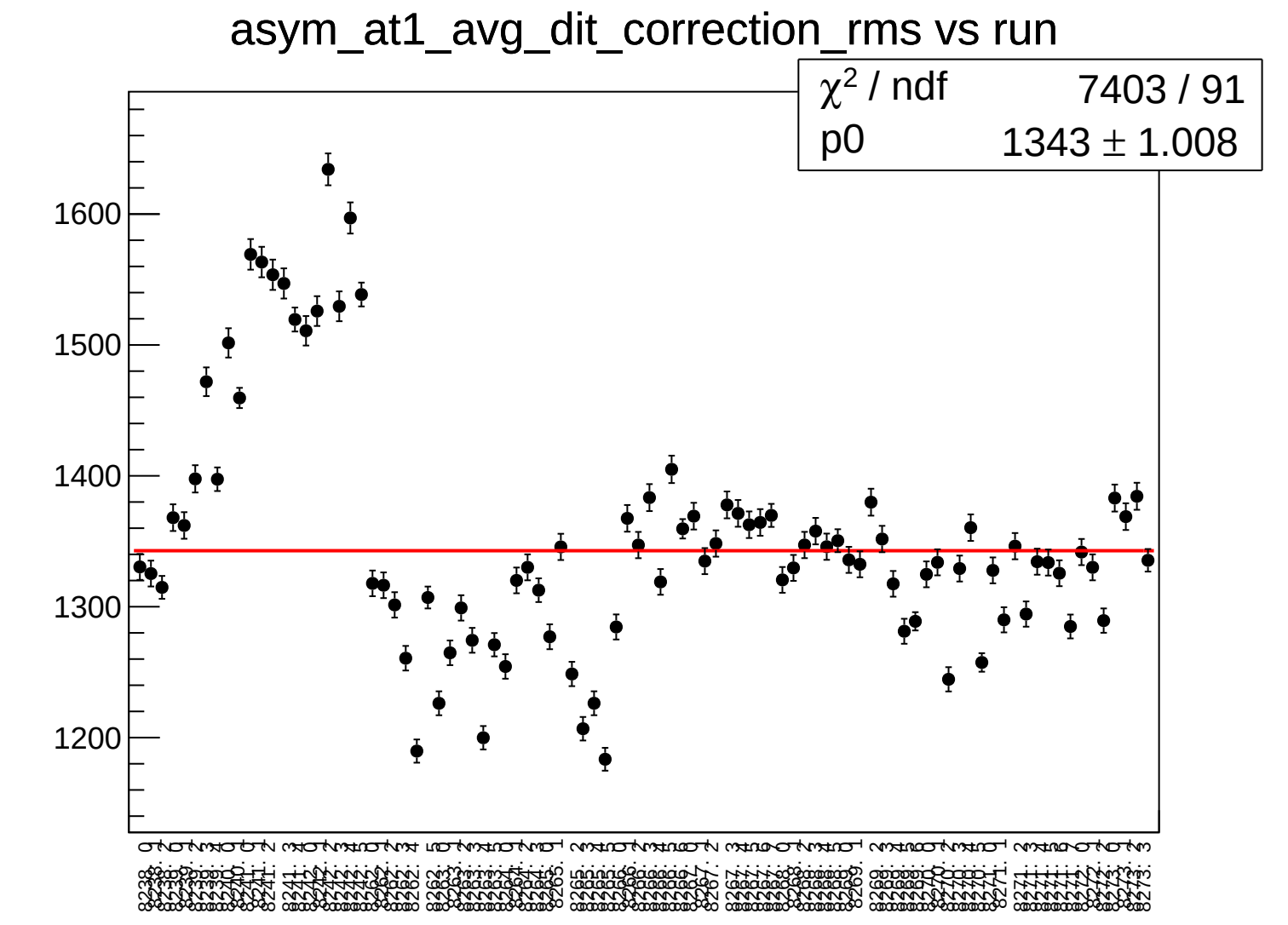

dit_asym_at1_avg_mean vs run
χ² / ndf 99.23 / 91
p0 3449 ± 1941
pull
Entries 92
Mean 696
Std Dev 0

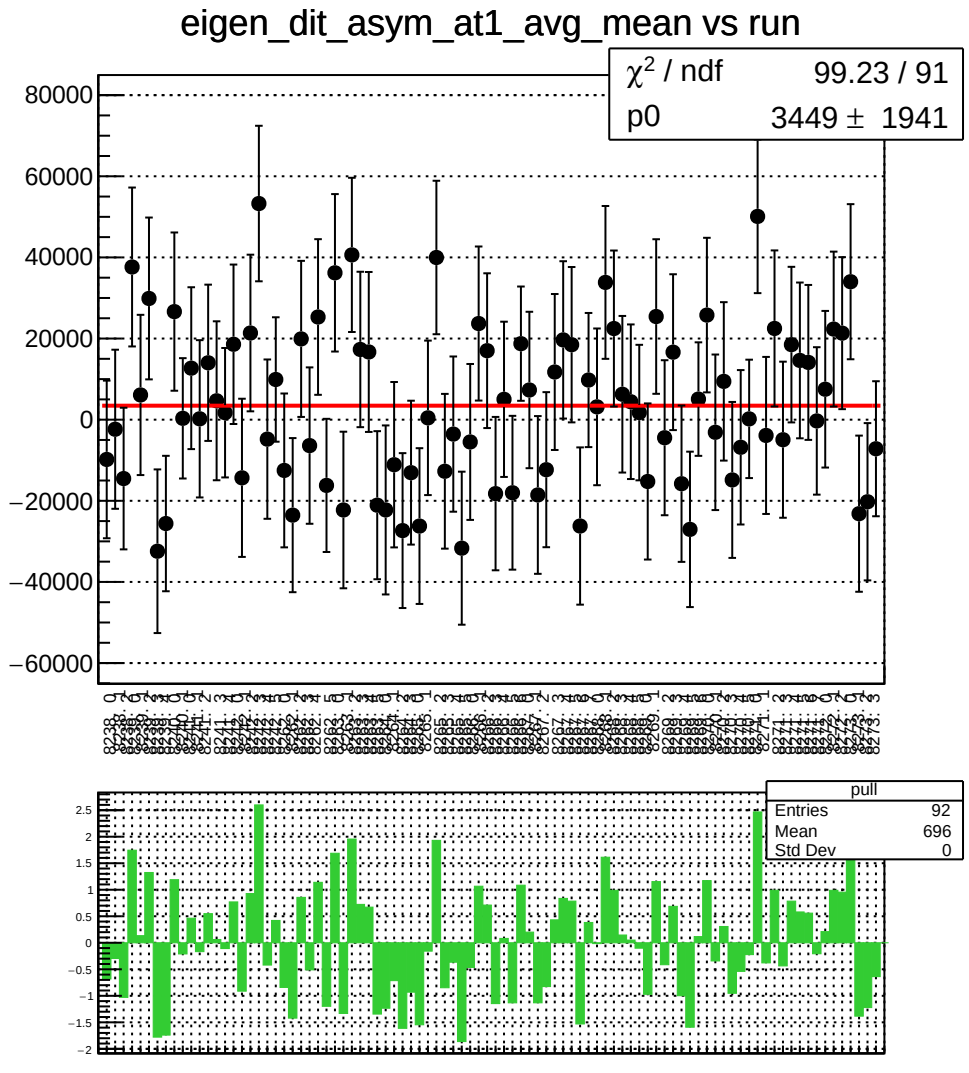

pull1D
Entries 92
Mean 0.00208
Std Dev 1.039

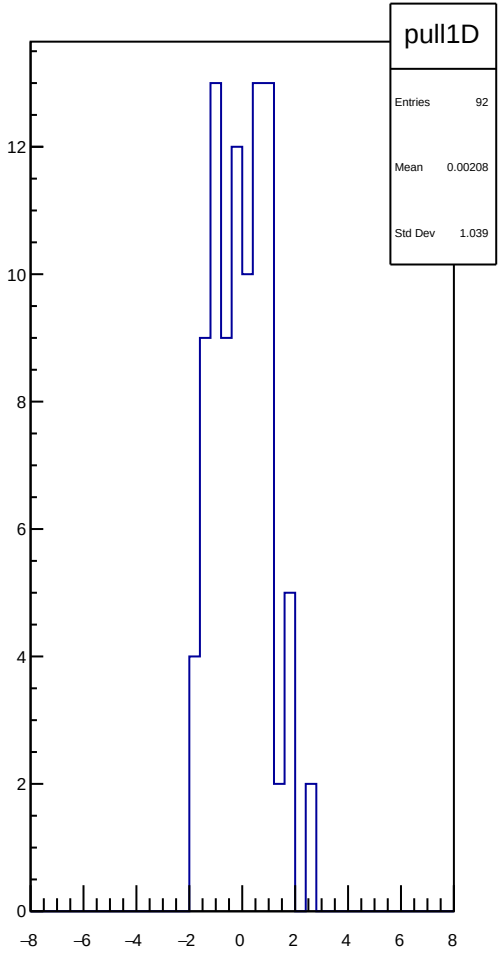

dit_asym_at1_avg_rms vs run
$\chi^2$ / ndf 605.4 / 91
p0 1833 ± 1.373
2000
1950
1900
1850
1800

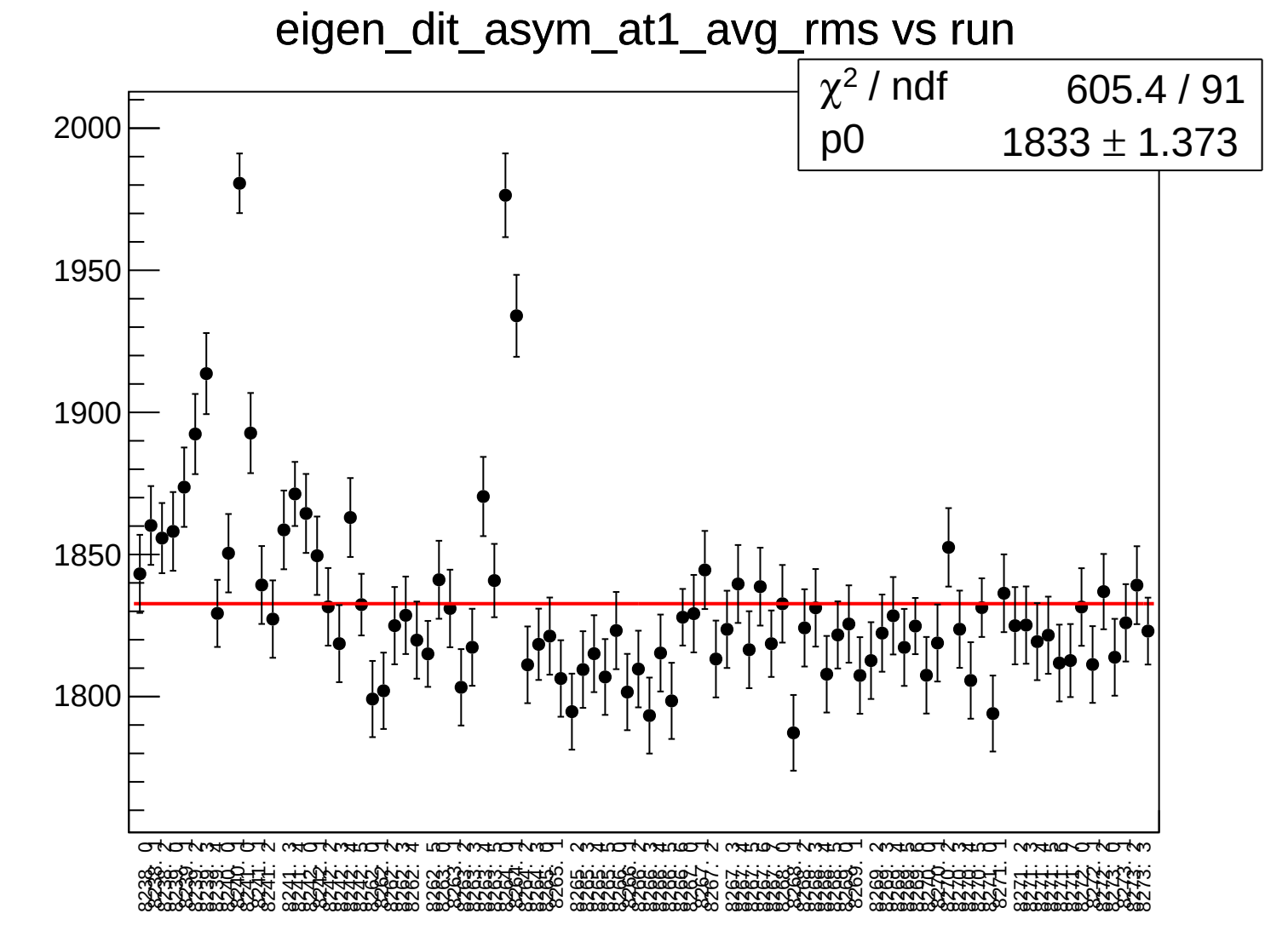

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 72.51 / 91
p0 2585 ± 1425
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −631.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

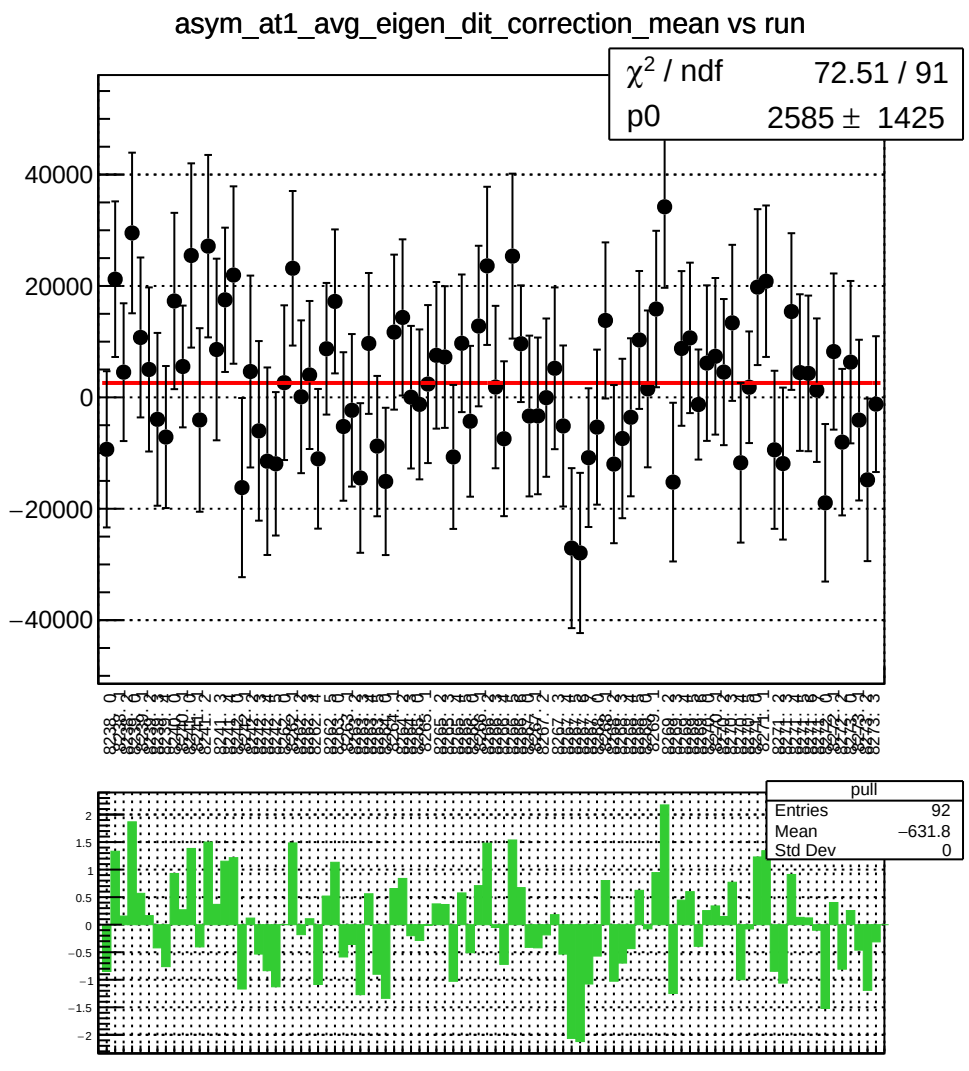

pull1D
Entries 92
Mean 0.005217
Std Dev 0.8878
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

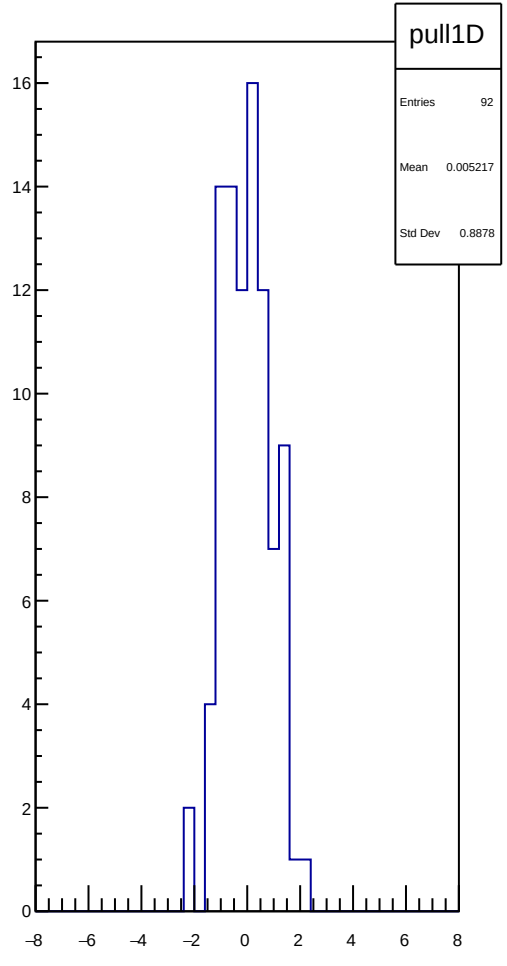

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 7403 / 91
p0 1343 ± 1.008
1600
1500
1400
1300
1200

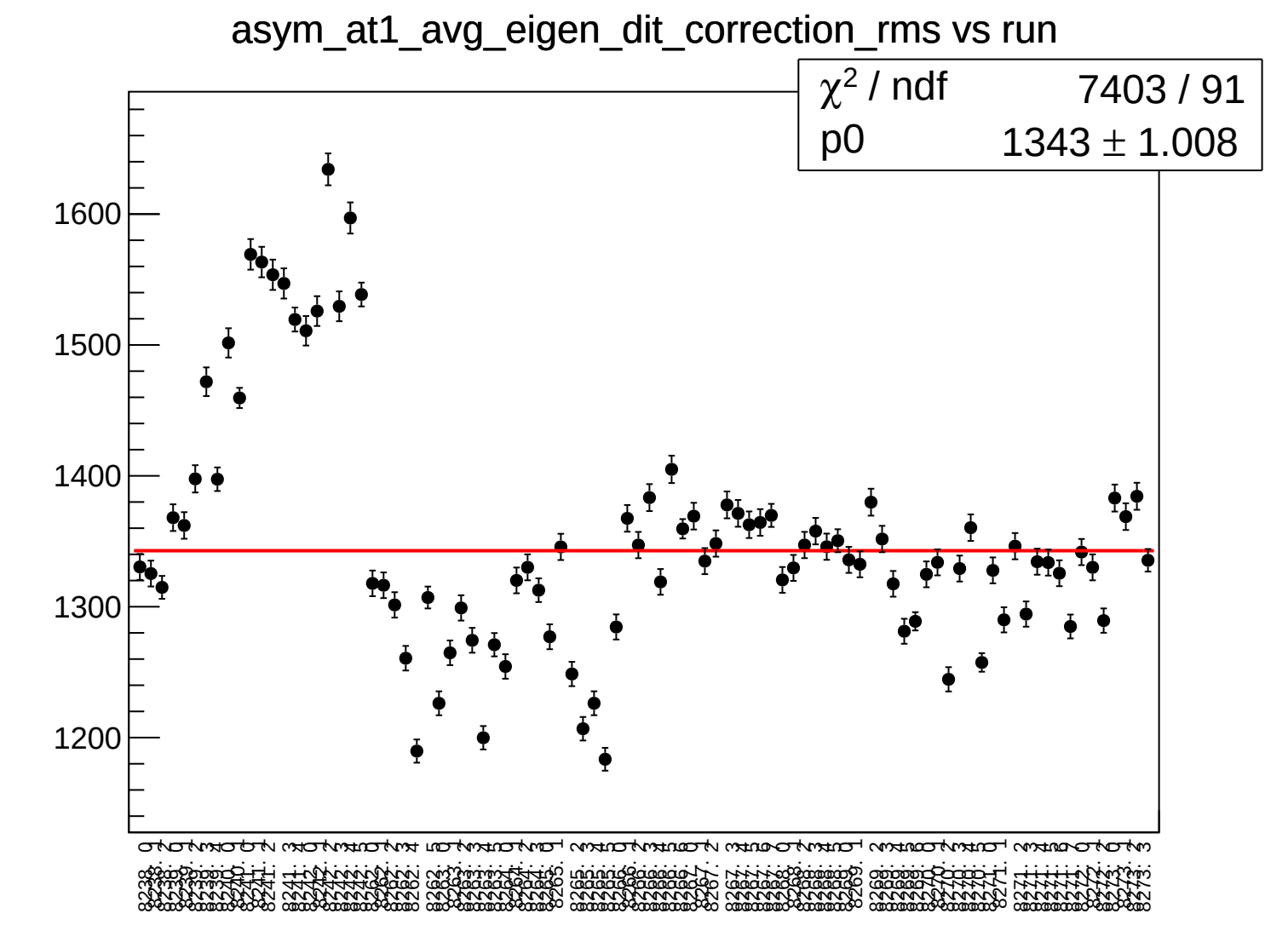

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 99.23 / 91
p0 3449 ± 1941
pull
Entries 92
Mean 696
Std Dev 0

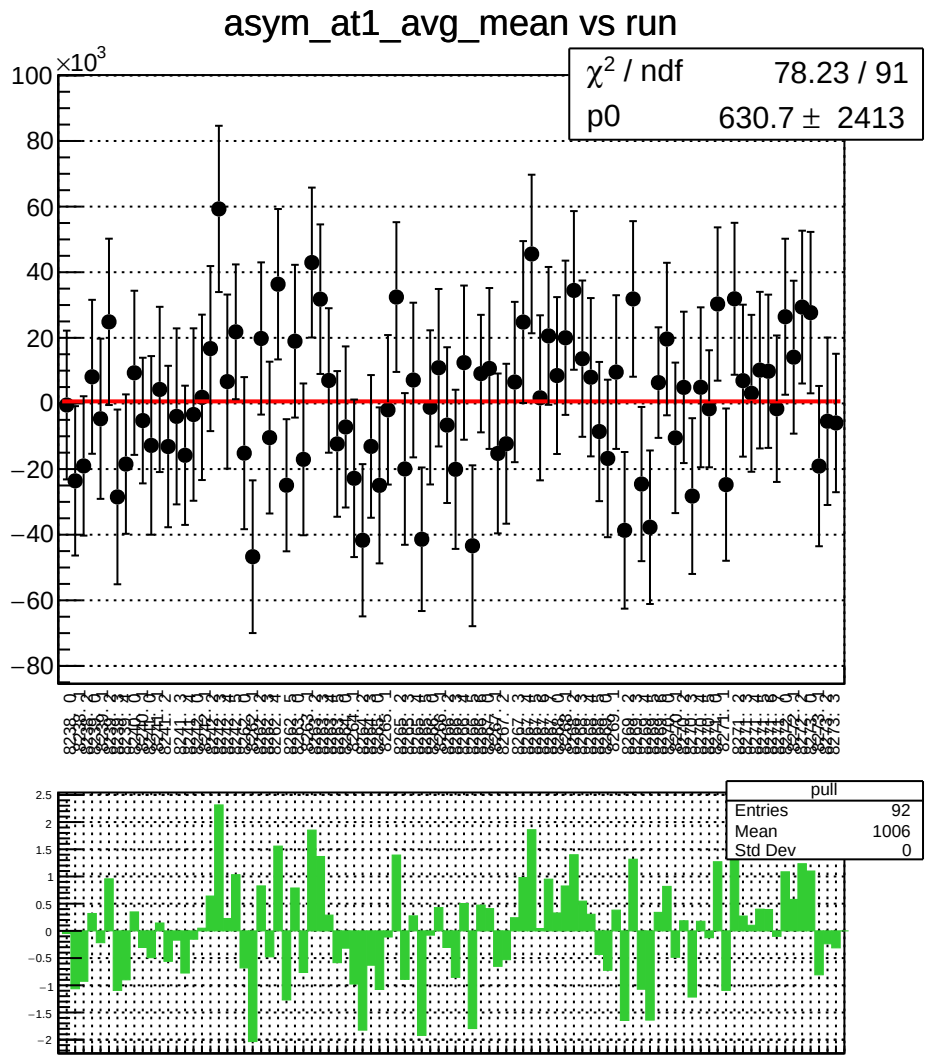

pull1D
Entries 92
Mean 0.00208
Std Dev 1.039

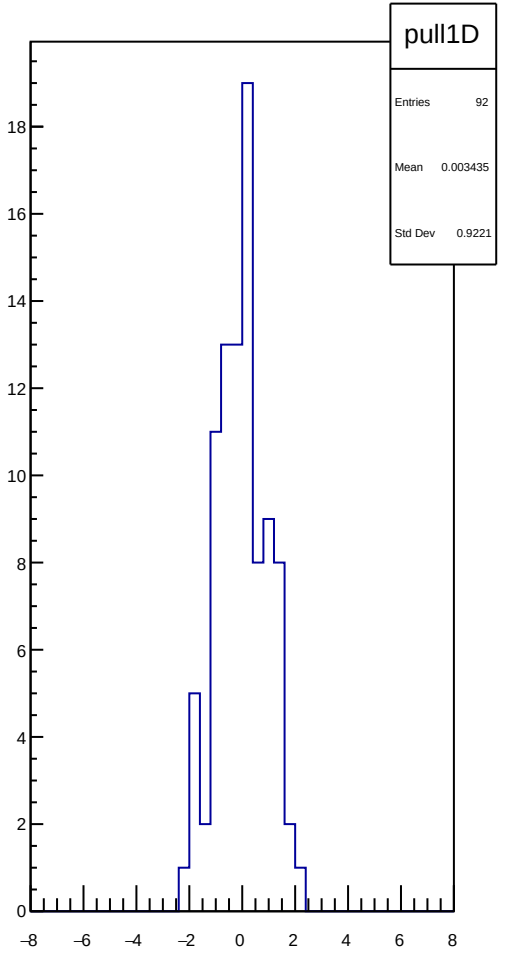

eigen_dit_asym_at1_avg_rms vs run
$\chi^2$ / ndf 605.4 / 91
p0 1833 ± 1.373
2000
1950
1900
1850
1800

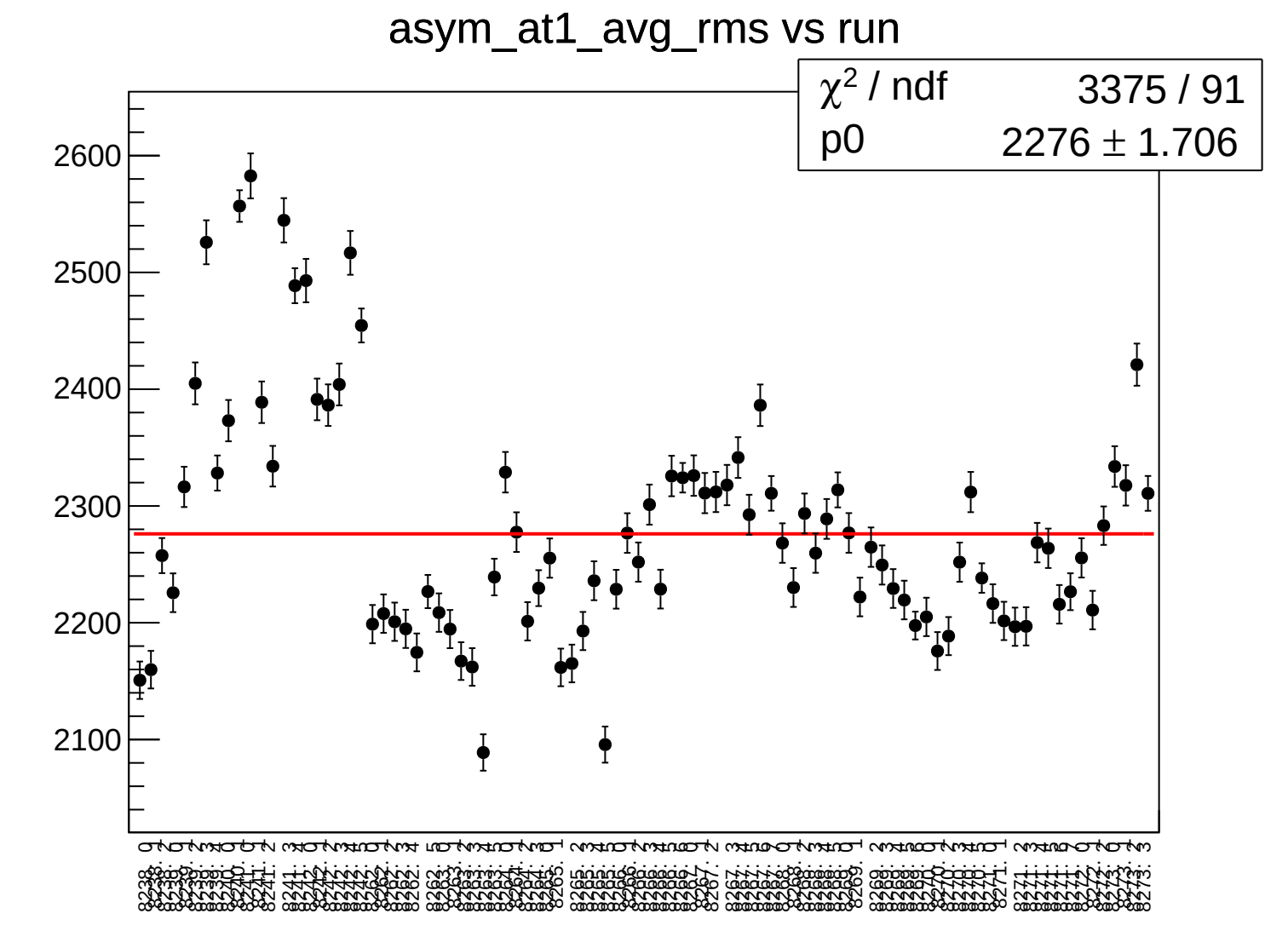

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.51 / 91
p0 2585 ± 1425
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −631.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

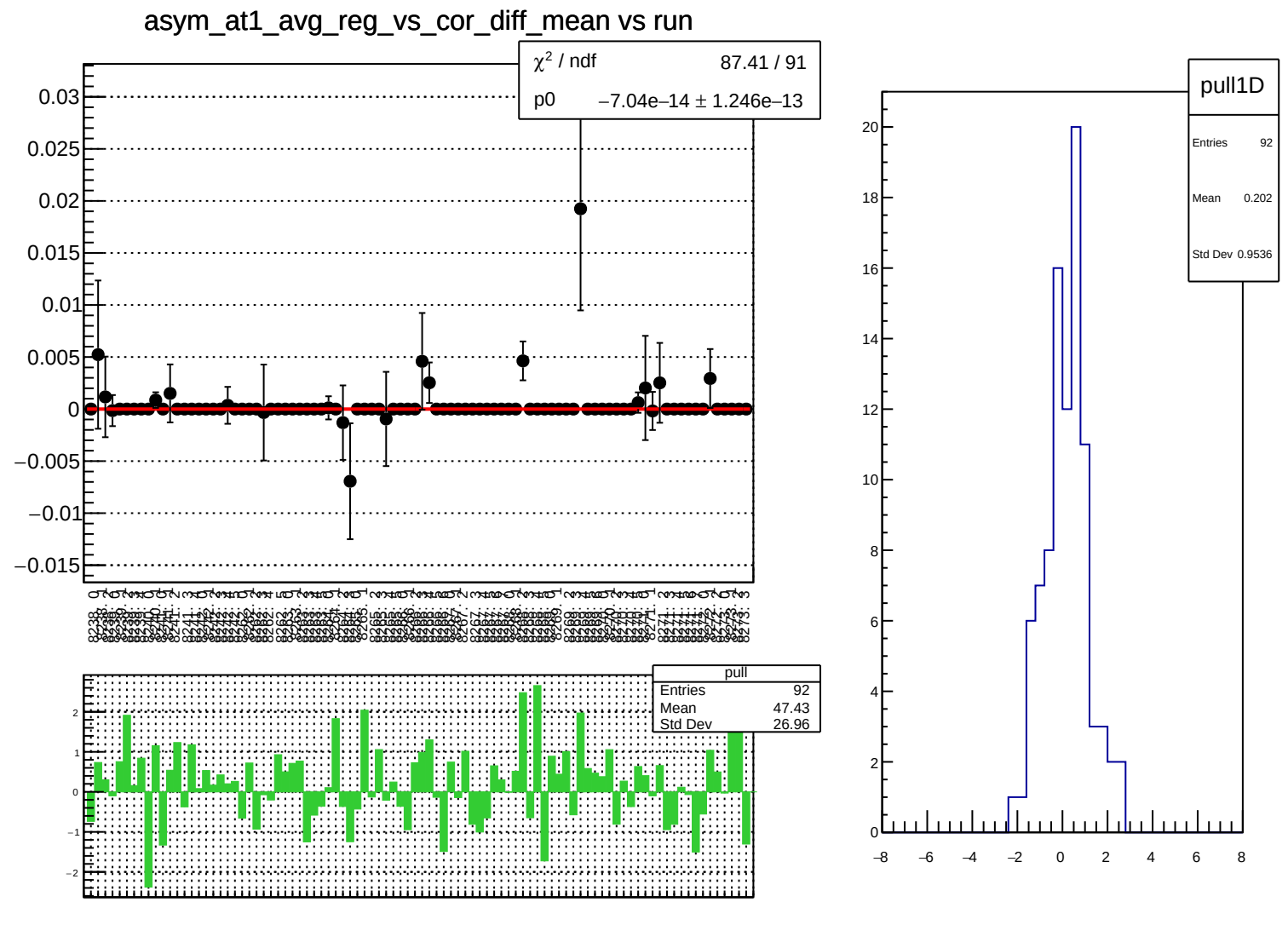

pull1D
Entries 92
Mean 0.005217
Std Dev 0.8878
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

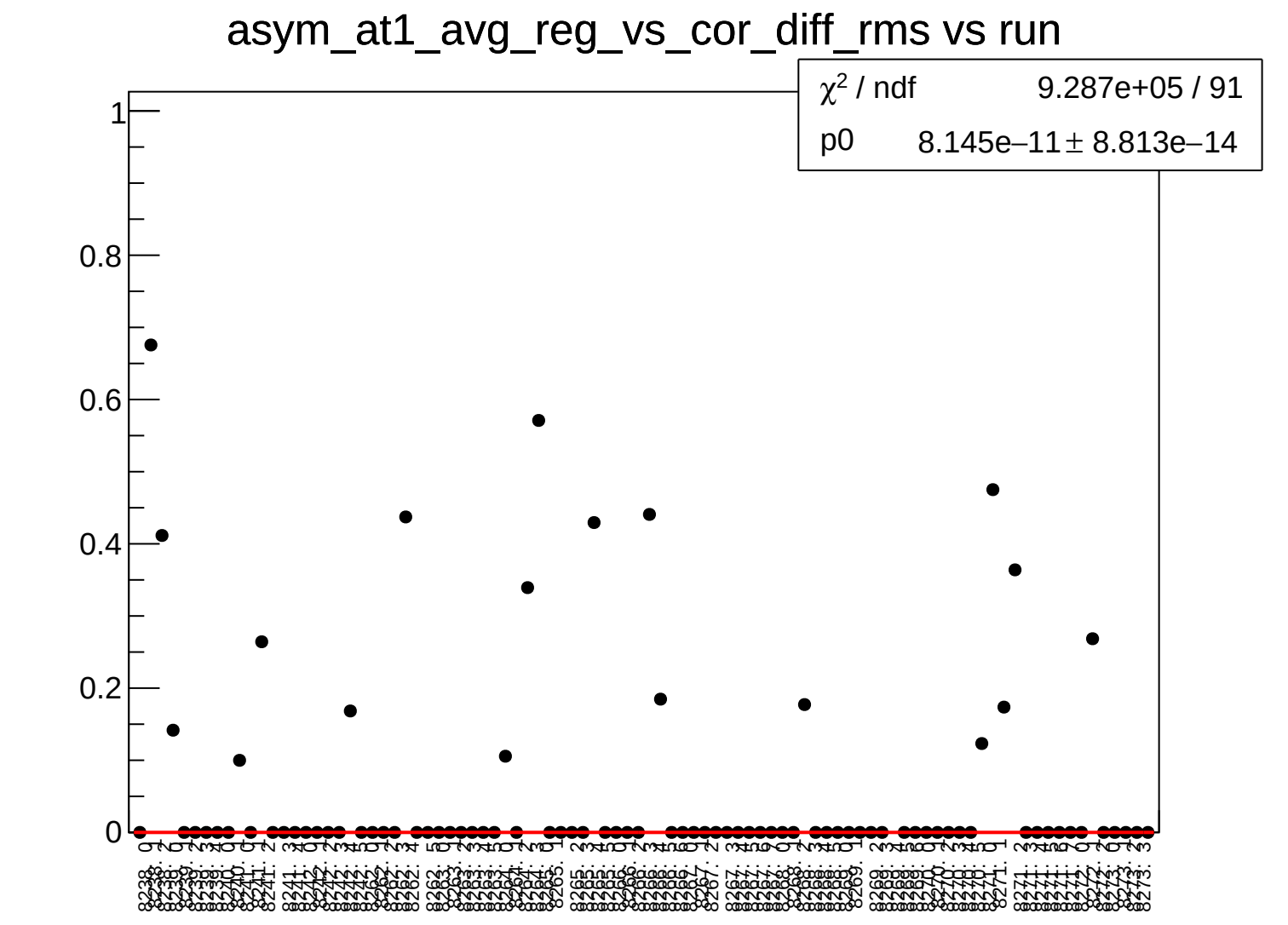

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 7403 / 91
p0 1343 ± 1.008
1600
1500
1400
1300
1200

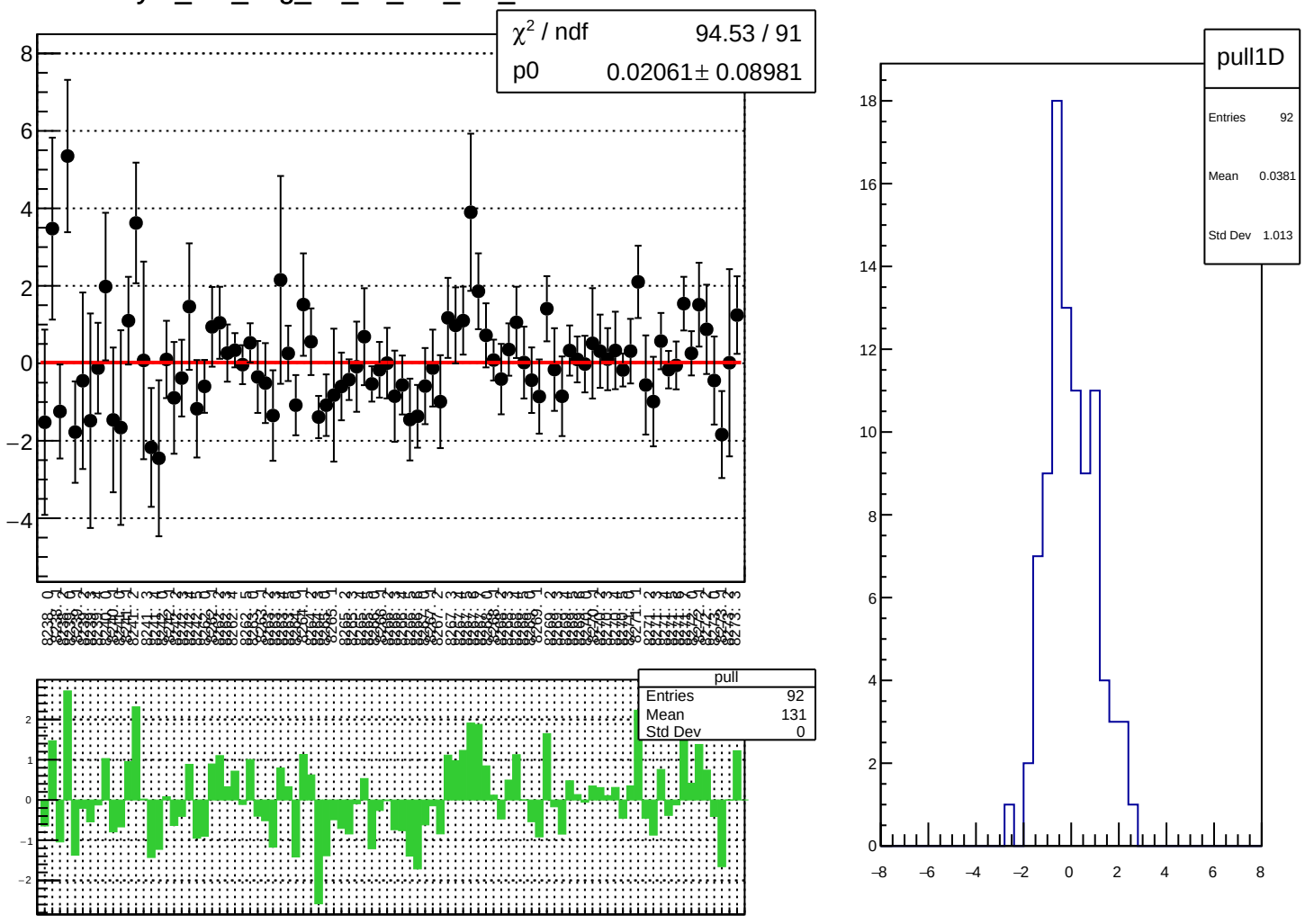

asym_at1_avg_mean vs run
χ² / ndf 78.23 / 91
p0 630.7 ± 2413
×10³
pull
Entries 92
Mean 1006
Std Dev 0

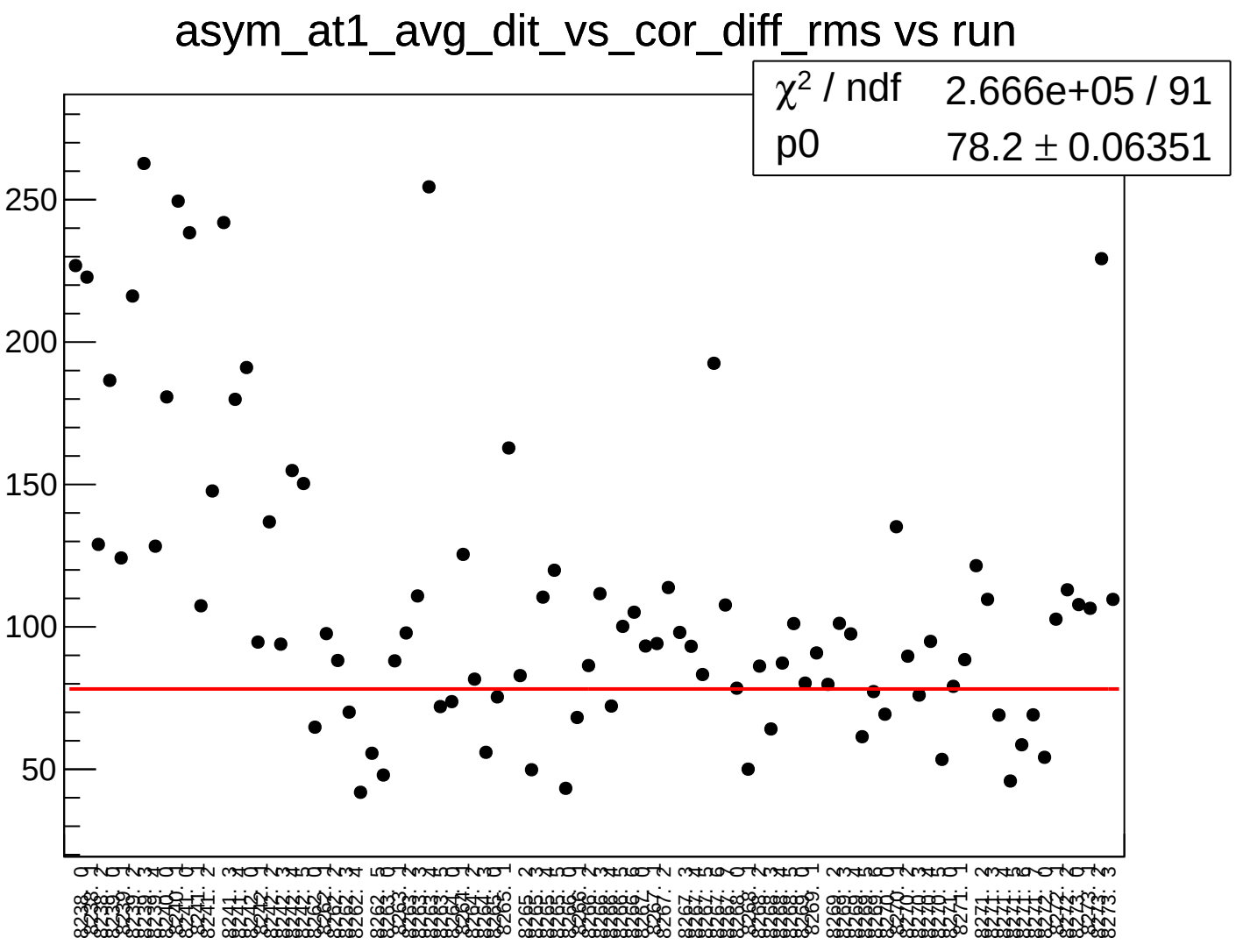

pull1D
Entries 92
Mean 0.003435
Std Dev 0.9221

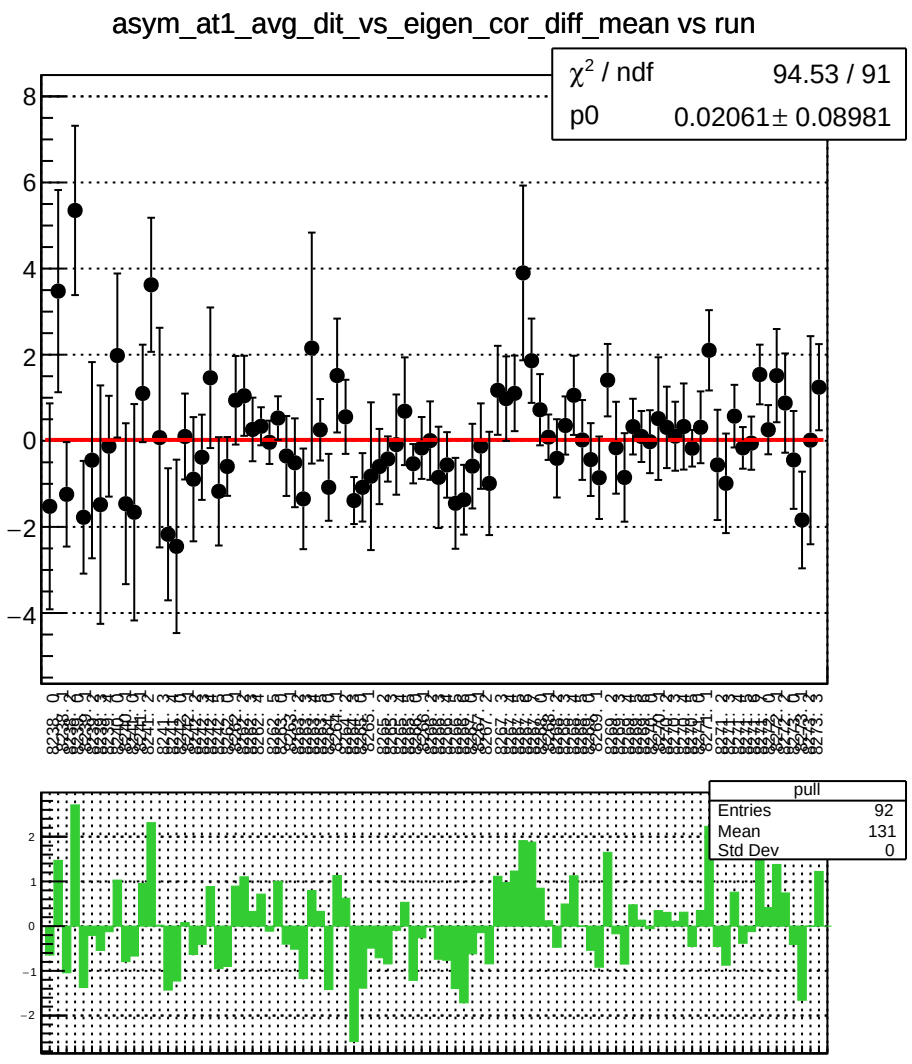

asym_at1_avg_rms vs run
$\chi^2$ / ndf 3375 / 91
p0 2276 ± 1.706
2600
2500
2400
2300
2200
2100

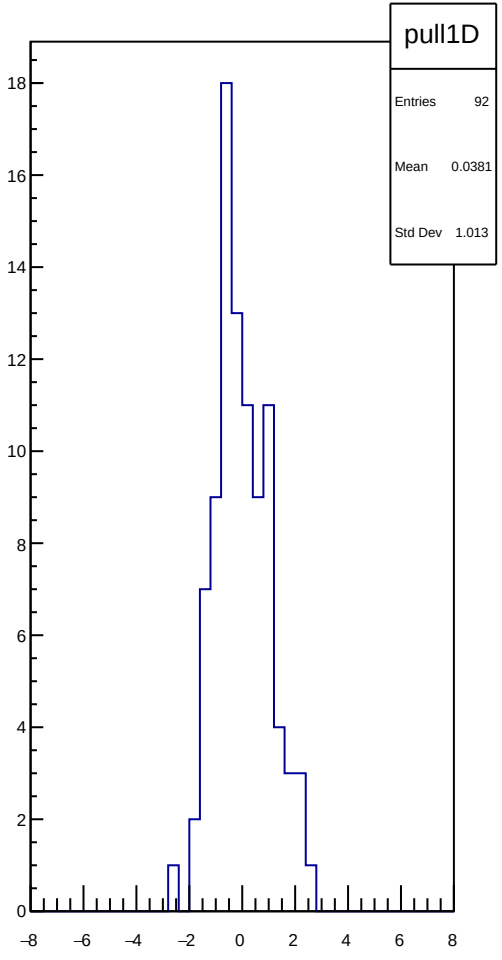

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.41 / 91
p0 −7.04e−14 ± 1.246e−13
pull
Entries 92
Mean 47.43
Std Dev 26.96
pull1D
Entries 92
Mean 0.202
Std Dev 0.9536

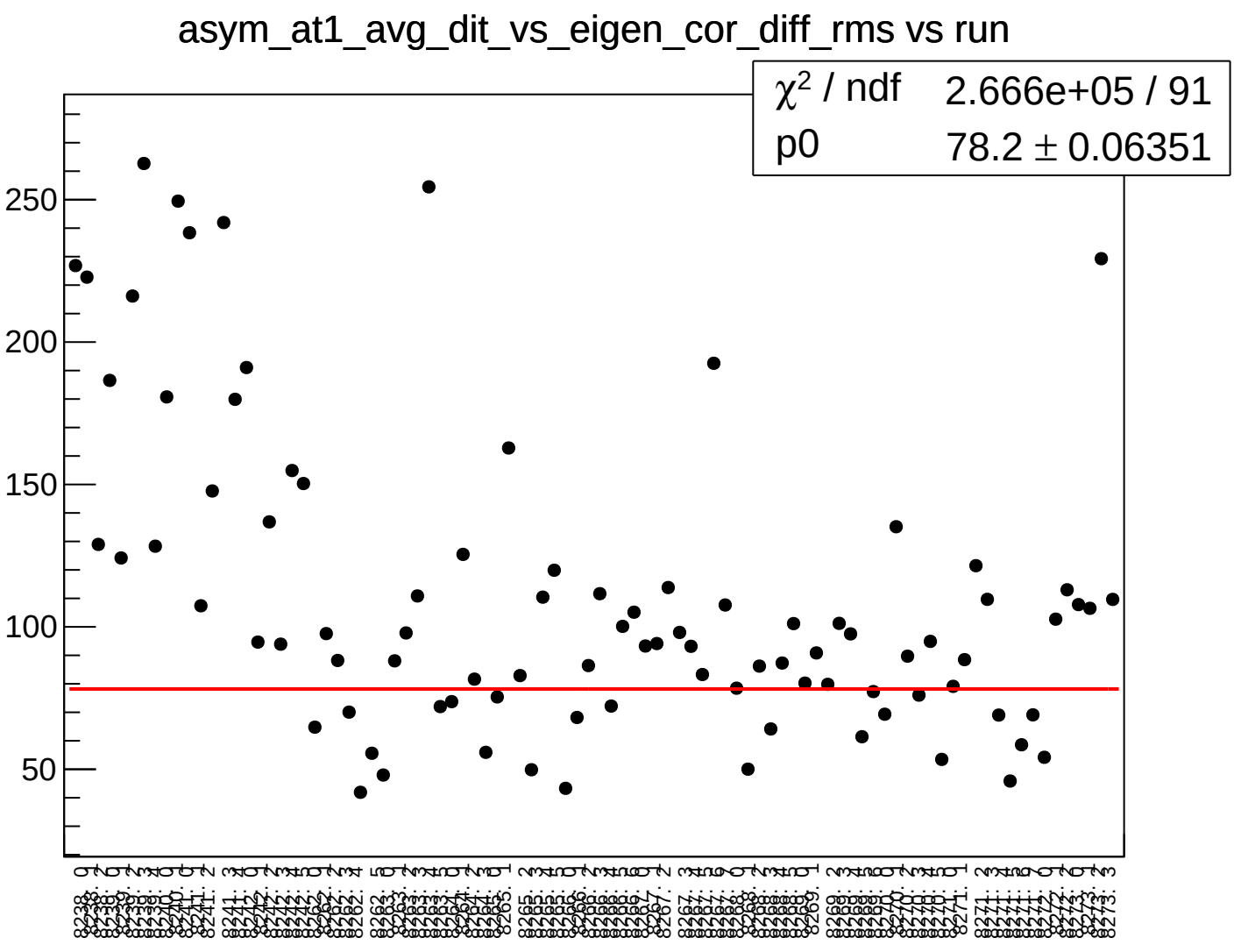

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.287e+05 / 91
p0 8.145e−11 ± 8.813e−14
1
0.8
0.6
0.4
0.2
0

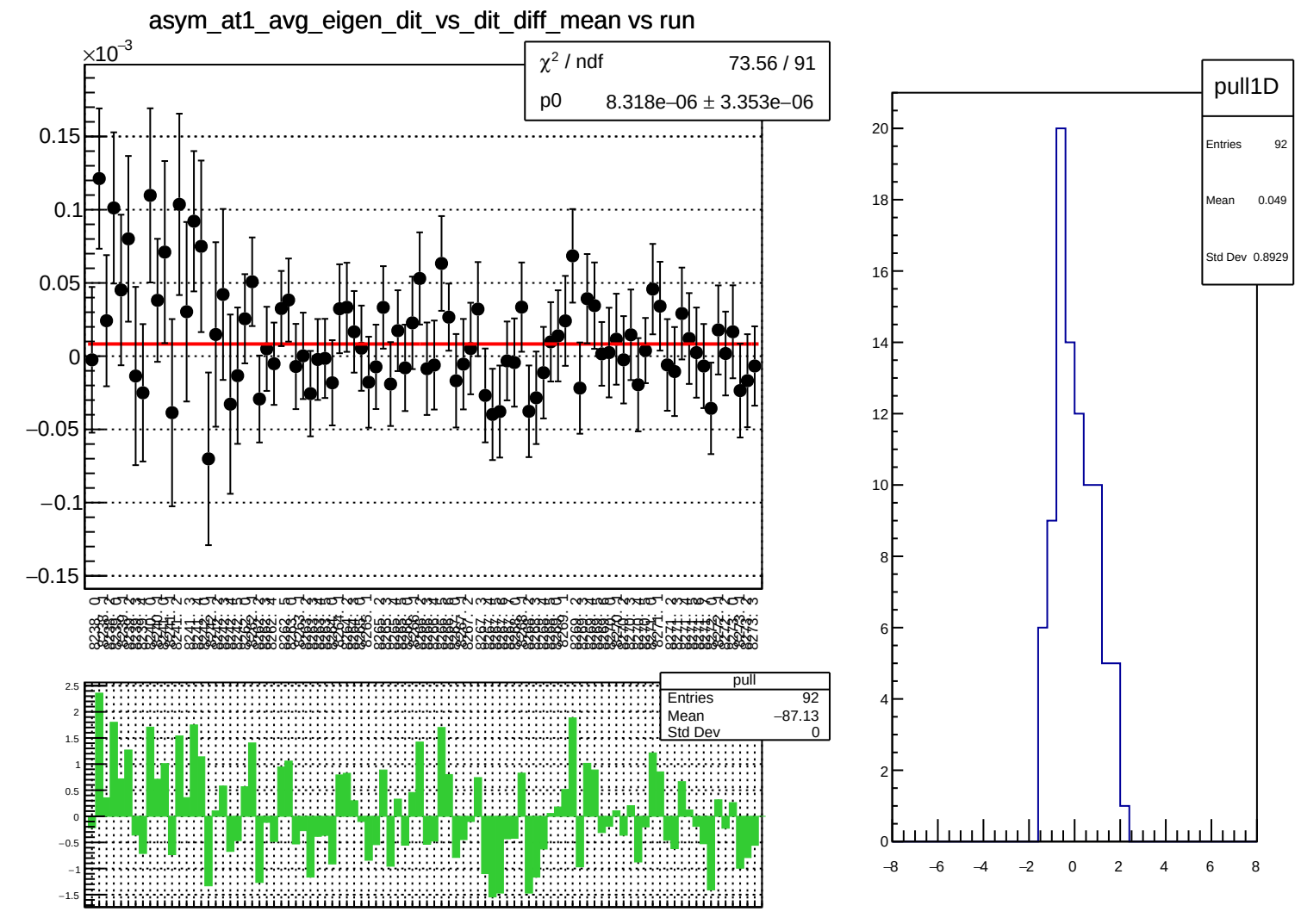

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.53 / 91
p0 0.02061± 0.08981
pull
Entries 92
Mean 131
Std Dev 0
pull1D
Entries 92
Mean 0.0381
Std Dev 1.013

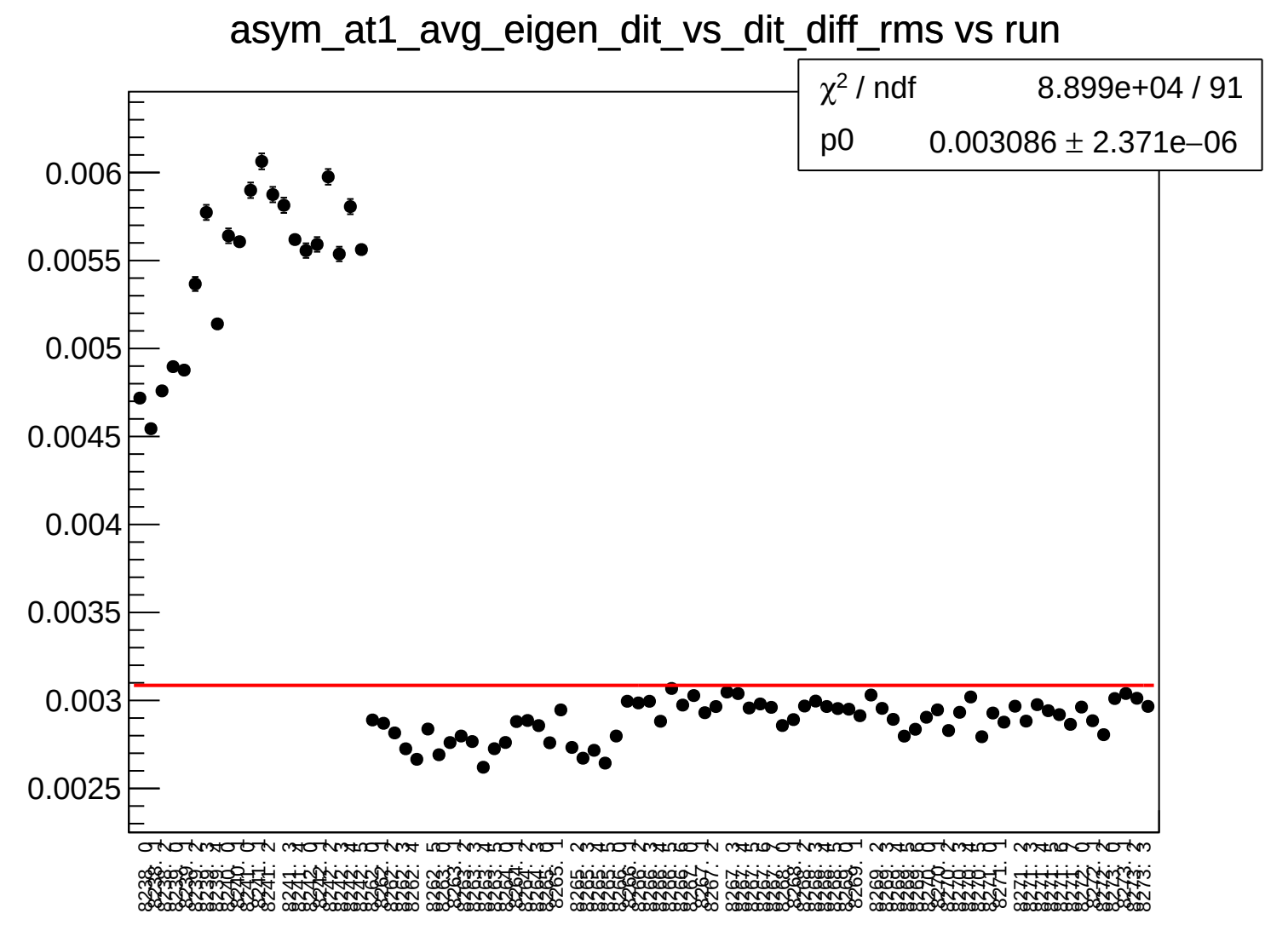

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.666e+05 / 91
p0 78.2 ± 0.06351
250
200
150
100
50

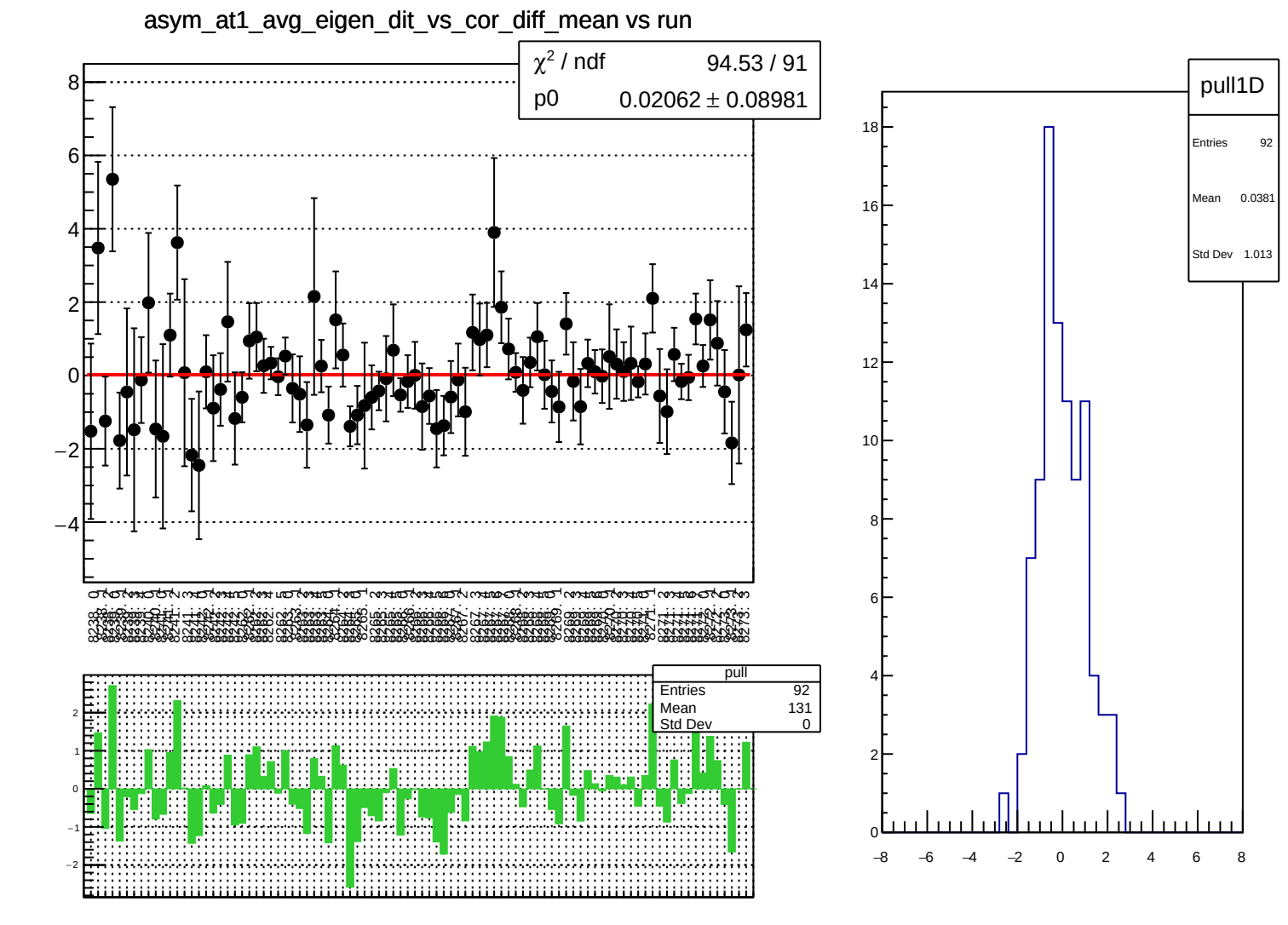

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.53 / 91
p0 0.02061± 0.08981
pull
Entries 92
Mean 131
Std Dev 0

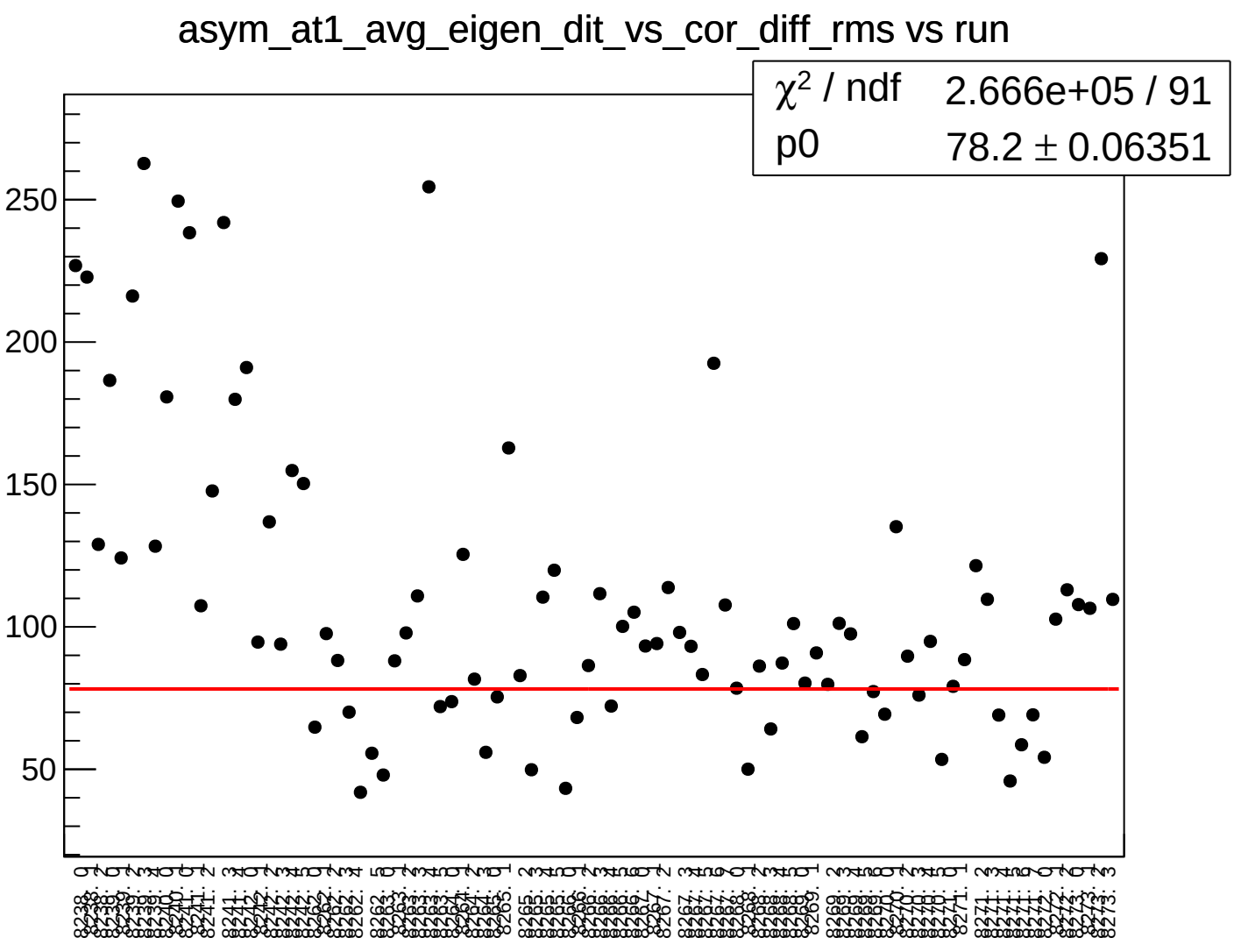

pull1D
Entries 92
Mean 0.0381
Std Dev 1.013

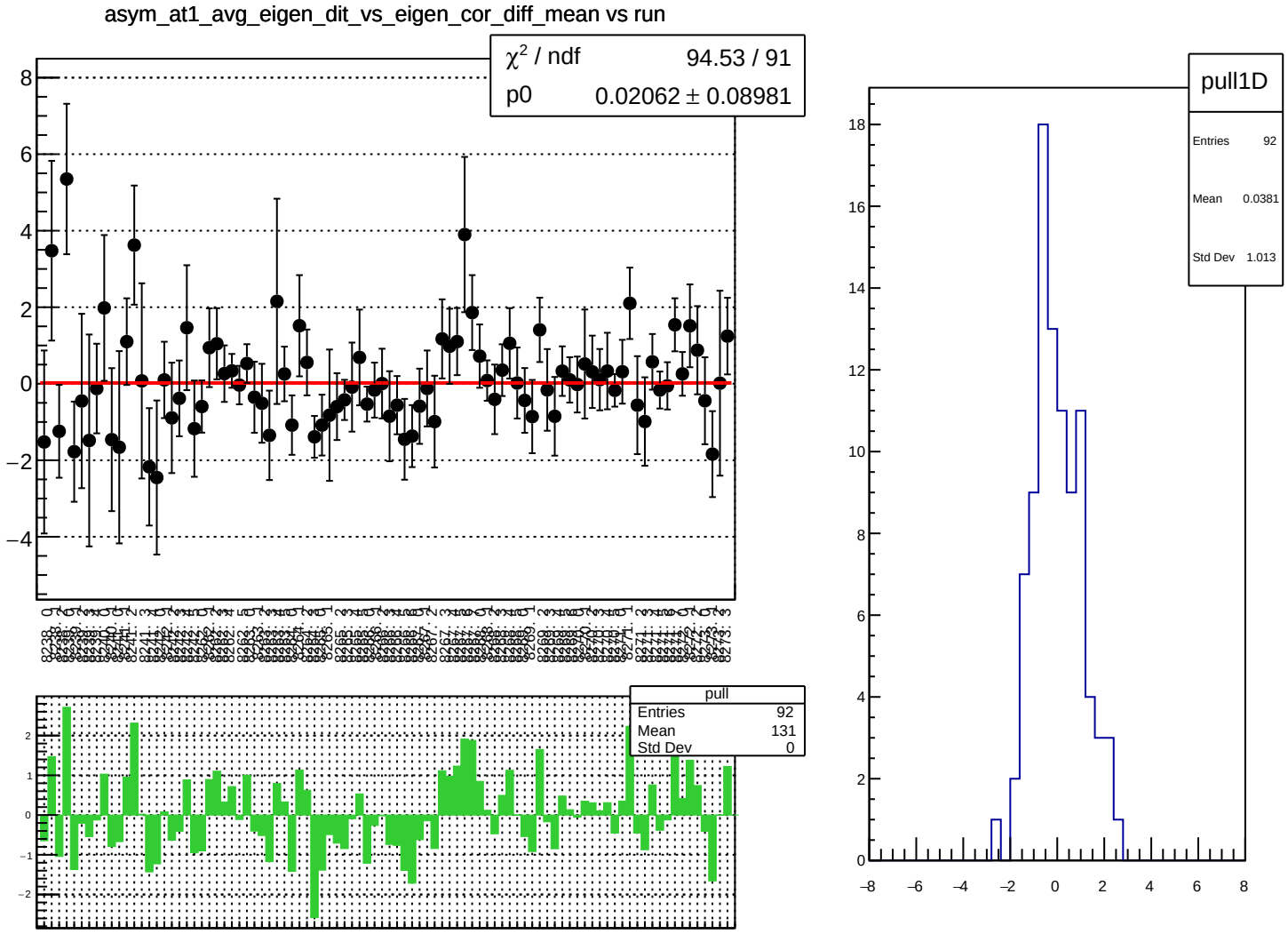

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.666e+05 / 91
p0 78.2 ± 0.06351
250
200
150
100
50

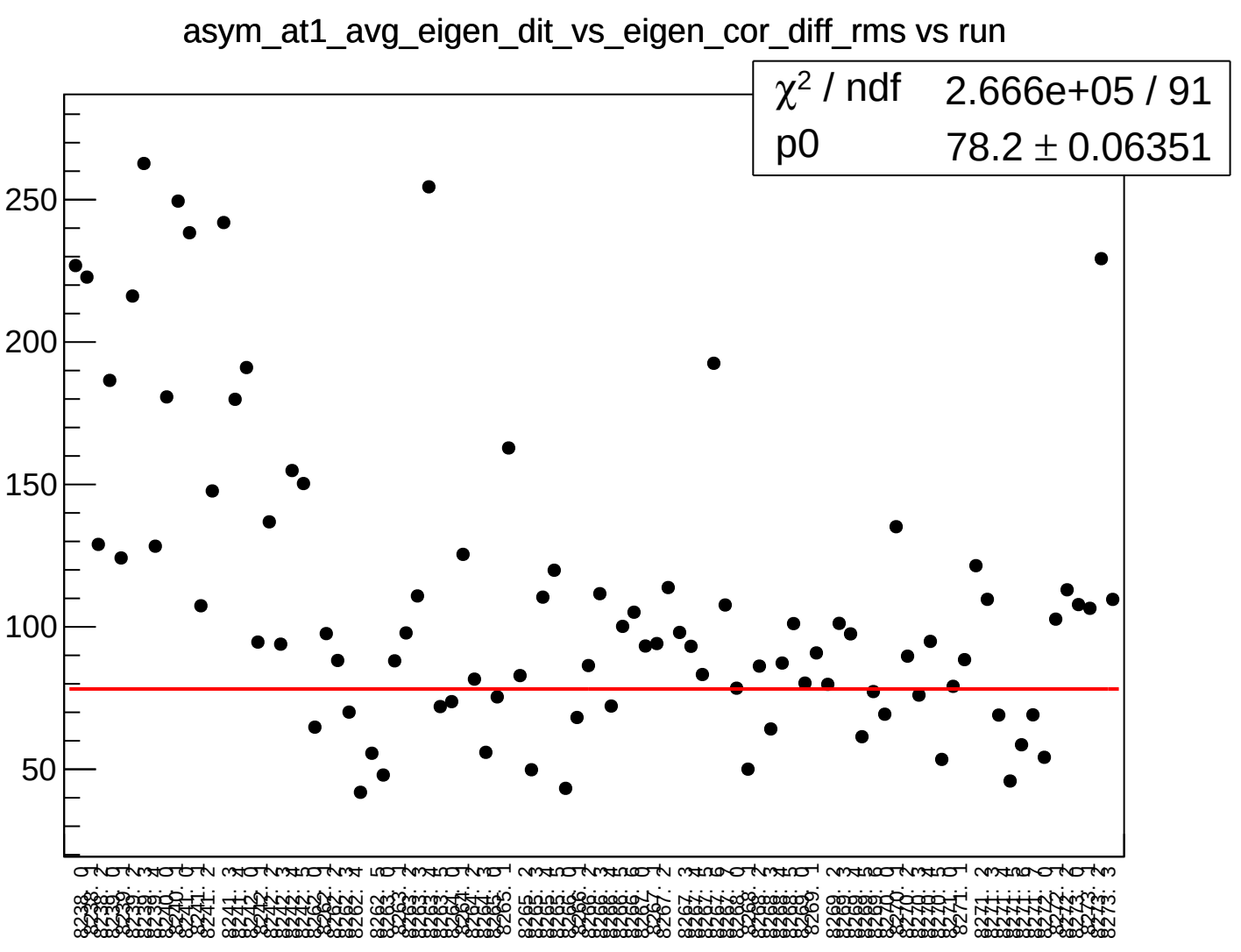

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 73.56 / 91
p0 8.318e−06 ± 3.353e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean −87.13
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean 0.049
Std Dev 0.8929
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

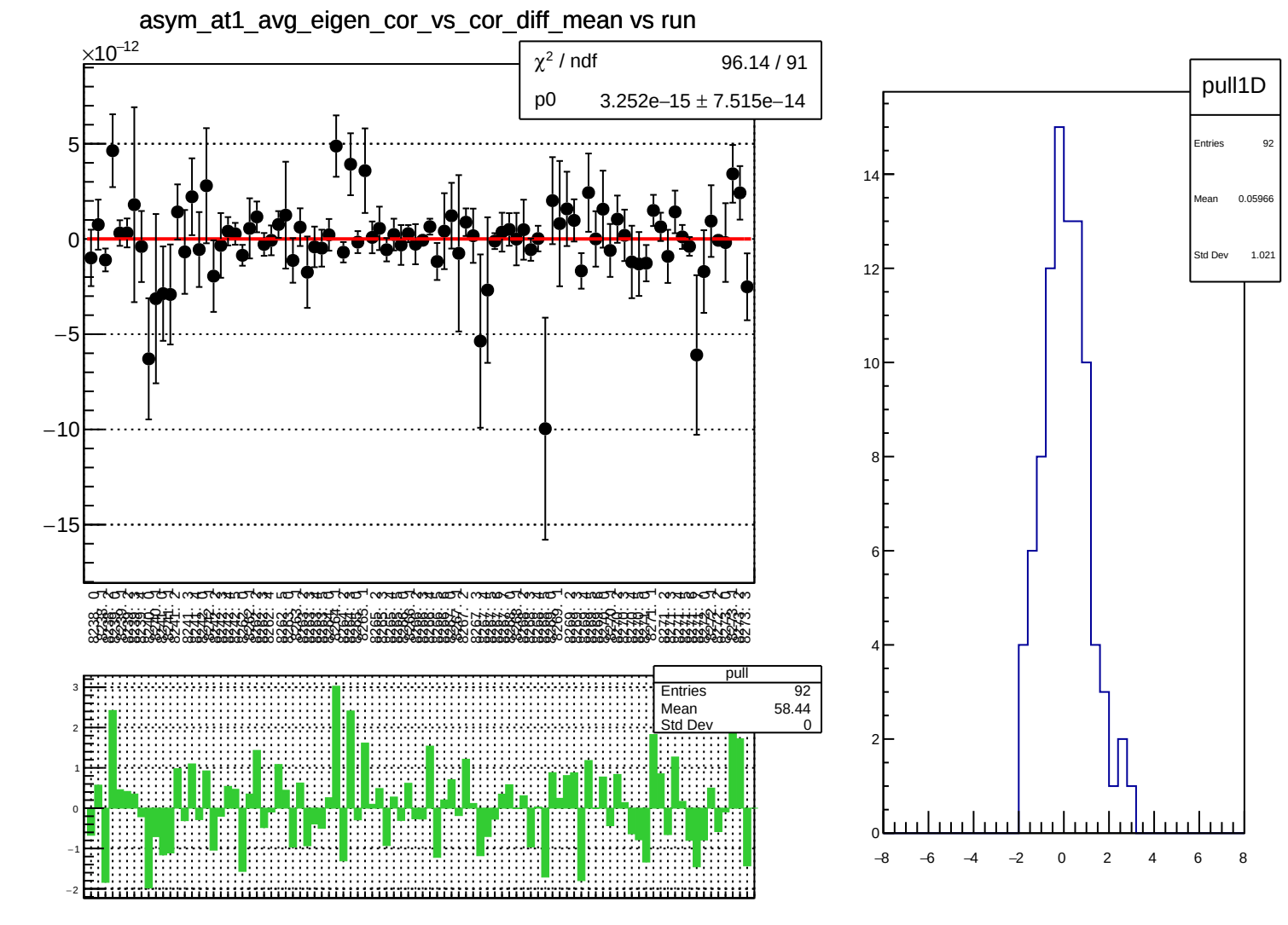

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.899e+04 / 91
p0 0.003086 ± 2.371e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

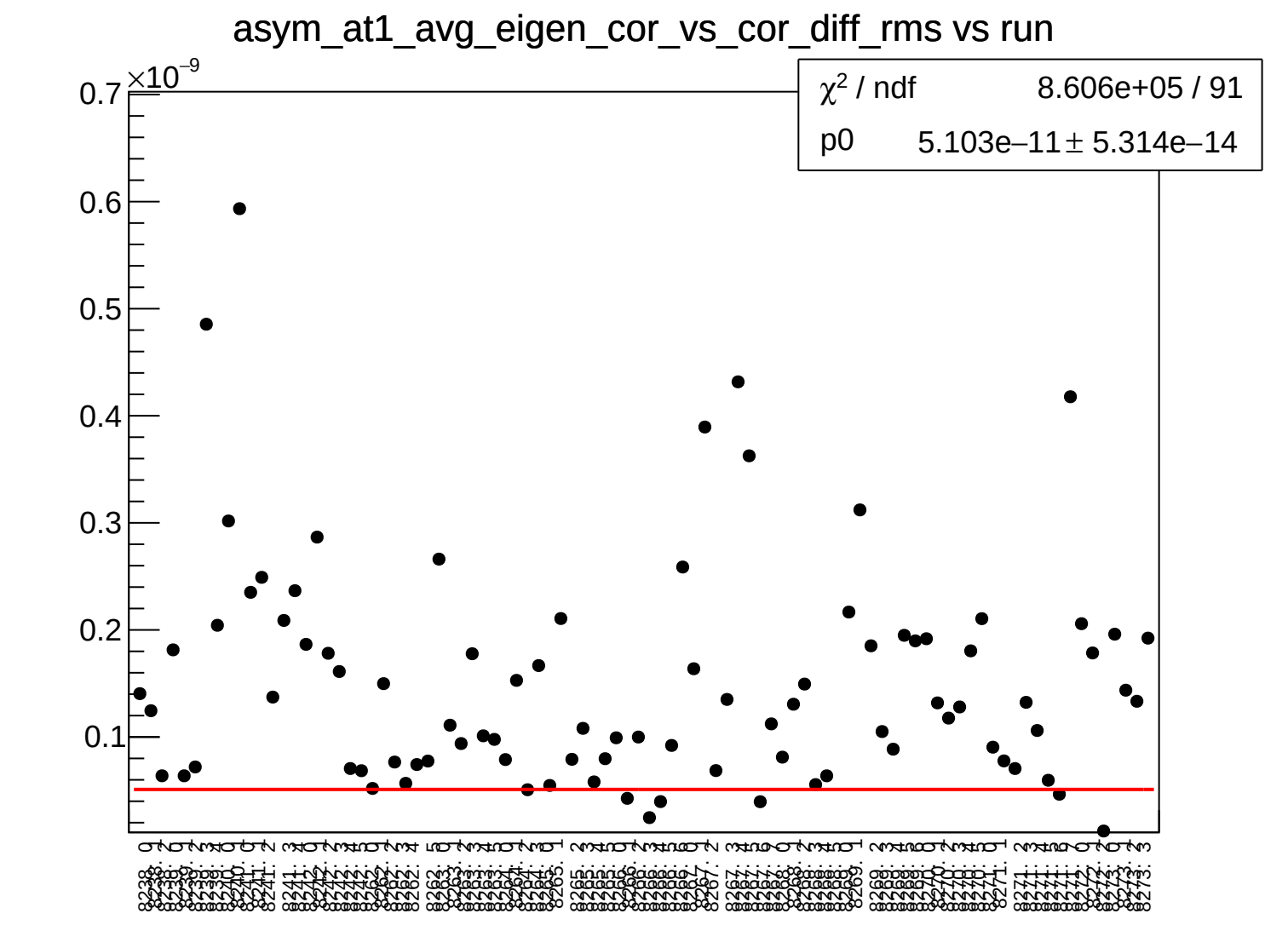

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.53 / 91
p0 0.02062 ± 0.08981
pull
Entries 92
Mean 131
Std Dev 0
pull1D
Entries 92
Mean 0.0381
Std Dev 1.013

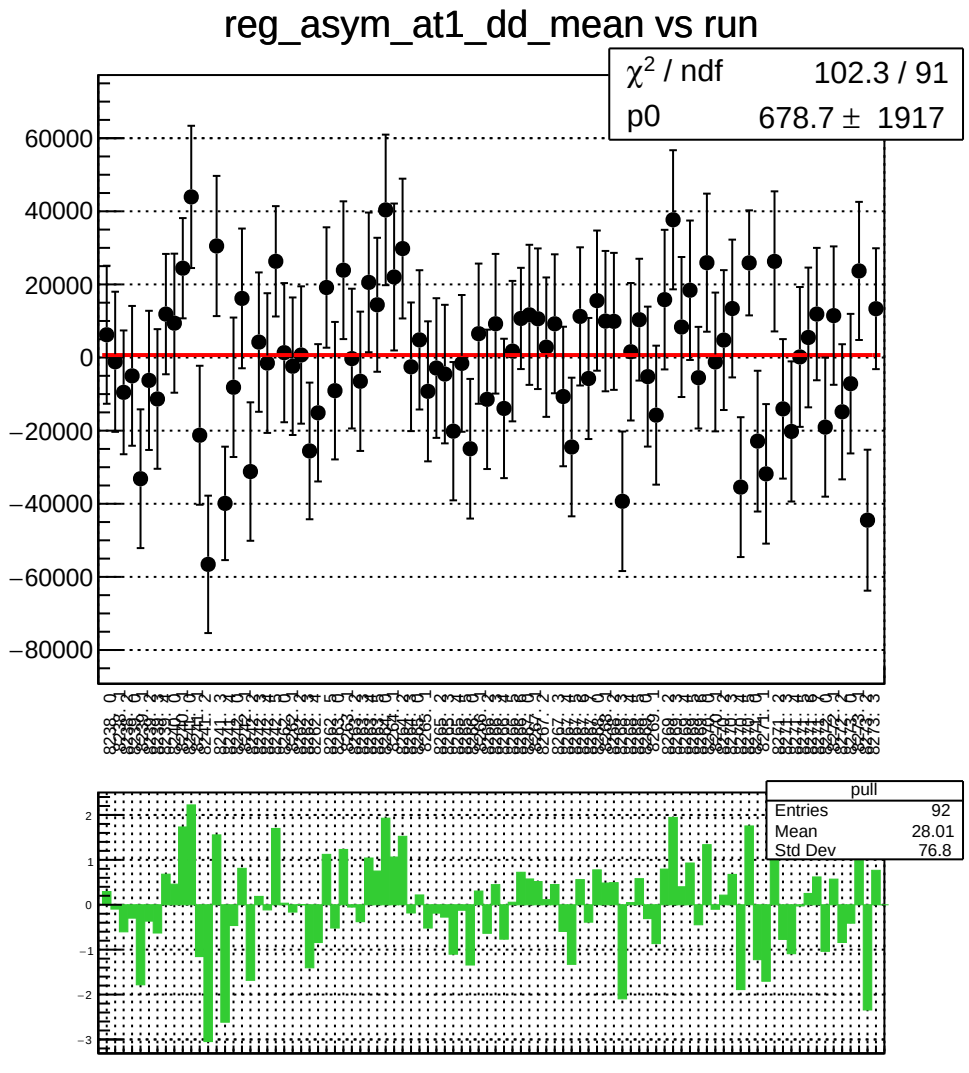

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.666e+05 / 91
p0 78.2 ± 0.06351
250
200
150
100
50

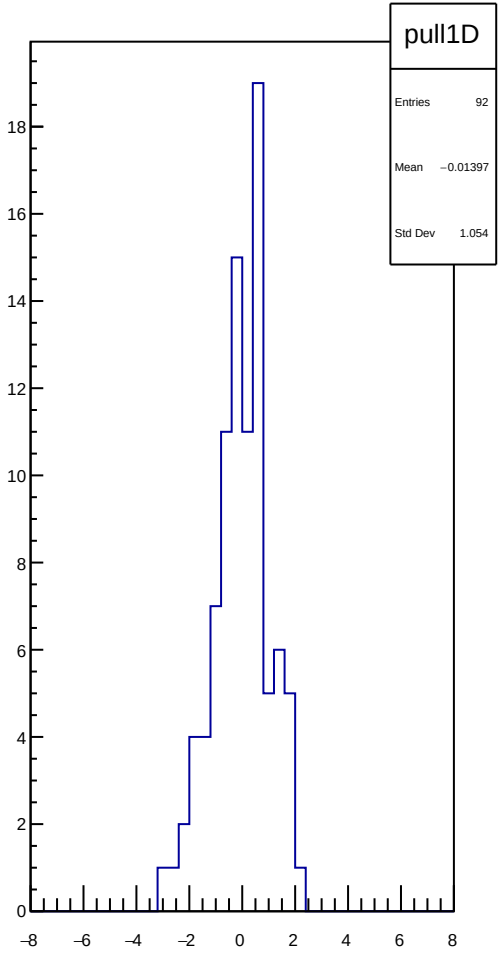

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.53 / 91
p0 0.02062 ± 0.08981
pull
Entries 92
Mean 131
Std Dev 0
pull1D
Entries 92
Mean 0.0381
Std Dev 1.013

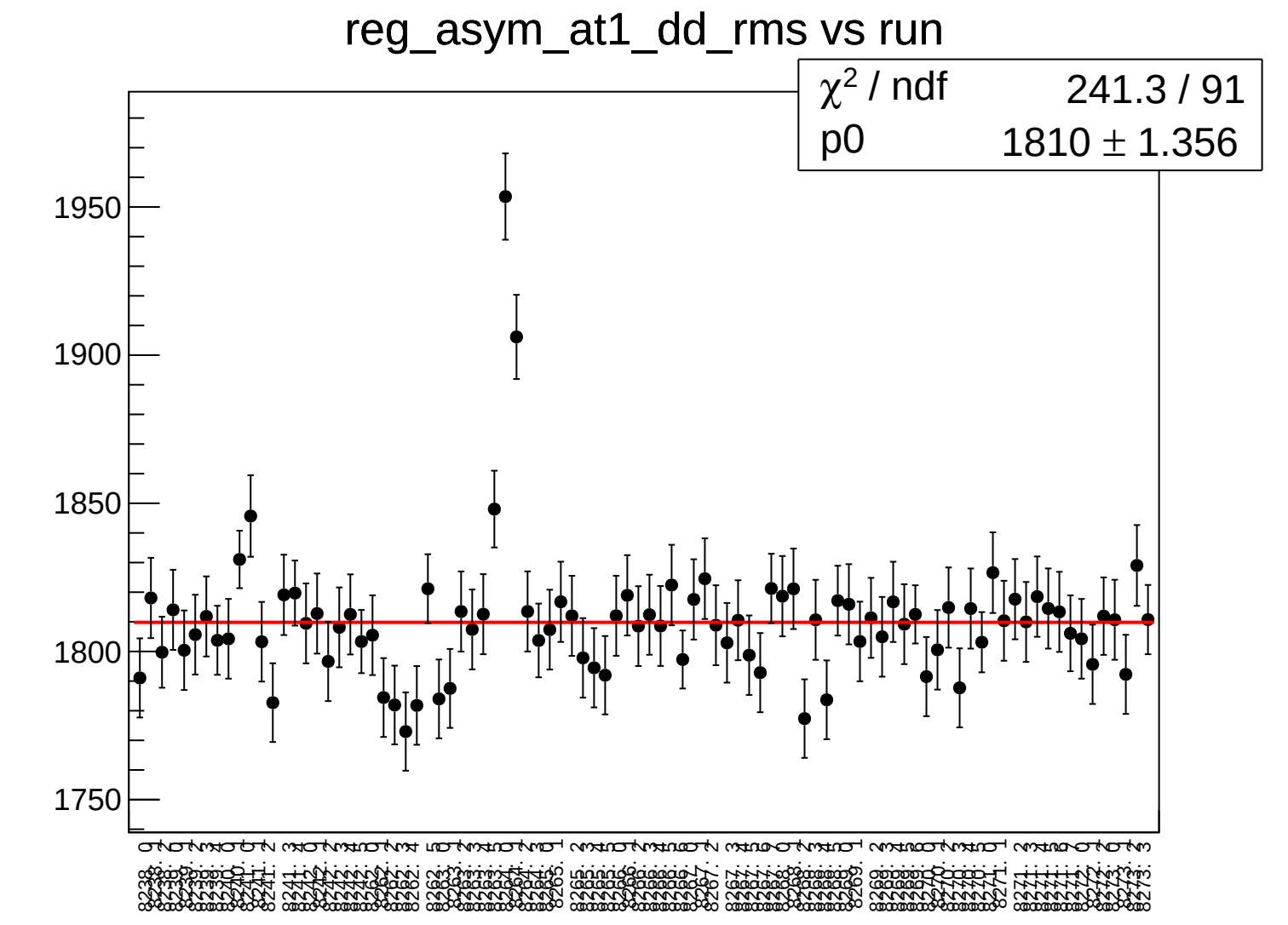

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.666e+05 / 91
p0 78.2 ± 0.06351
250
200
150
100
50

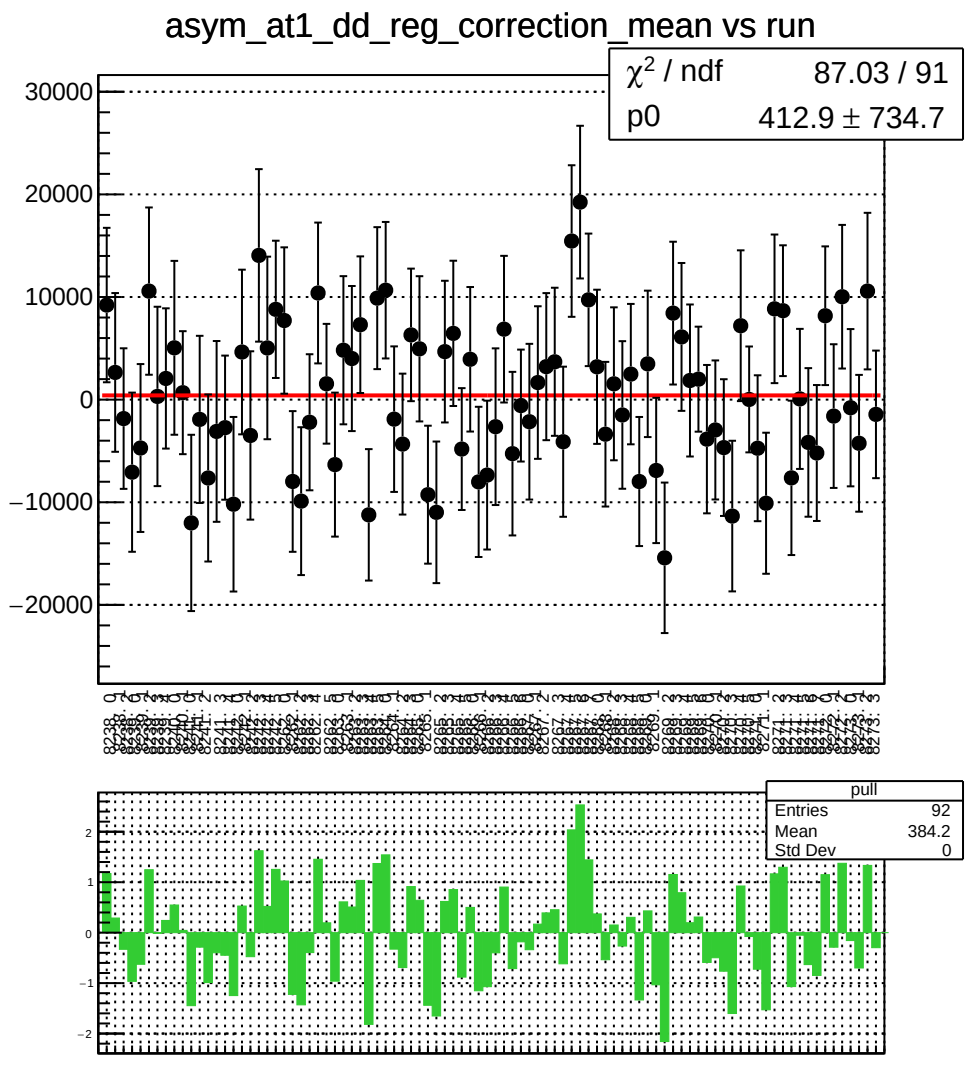

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.14 / 91
p0 3.252e−15 ± 7.515e−14
pull
Entries 92
Mean 58.44
Std Dev 0
pull1D
Entries 92
Mean 0.05966
Std Dev 1.021

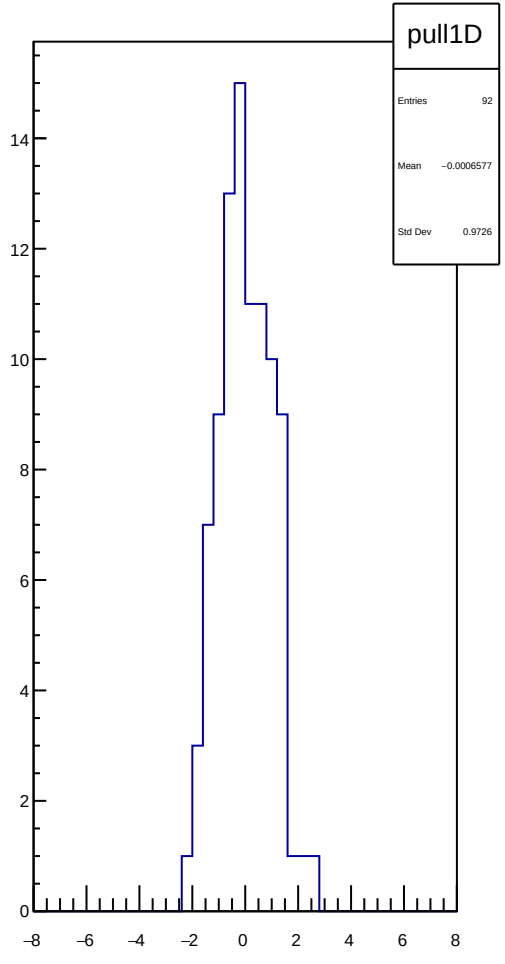

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 8.606e+05 / 91
p0 5.103e−11 ± 5.314e−14

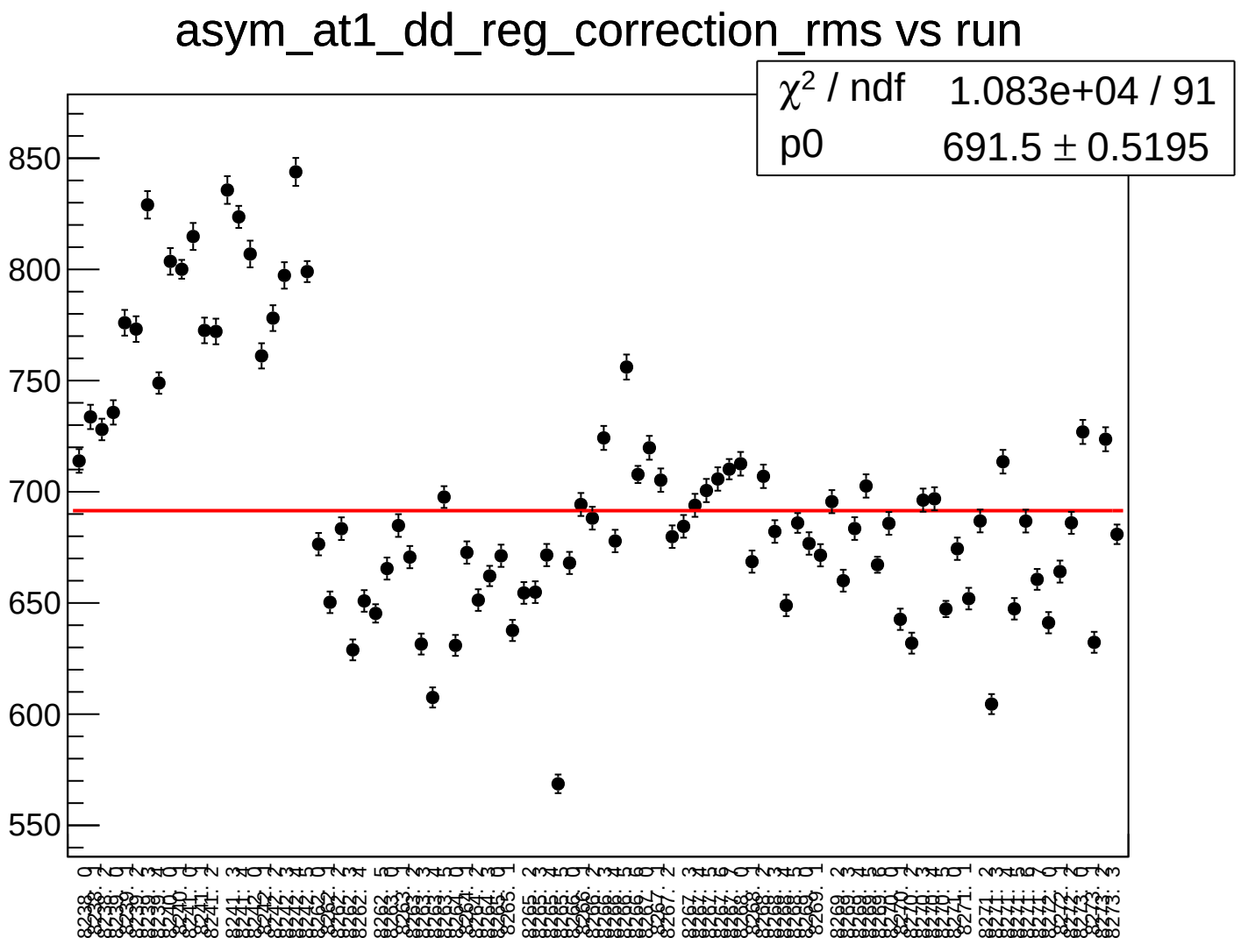

reg_asym_at1_dd_mean vs run
χ² / ndf 102.3 / 91
p0 678.7 ± 1917
pull
Entries 92
Mean 28.01
Std Dev 76.8

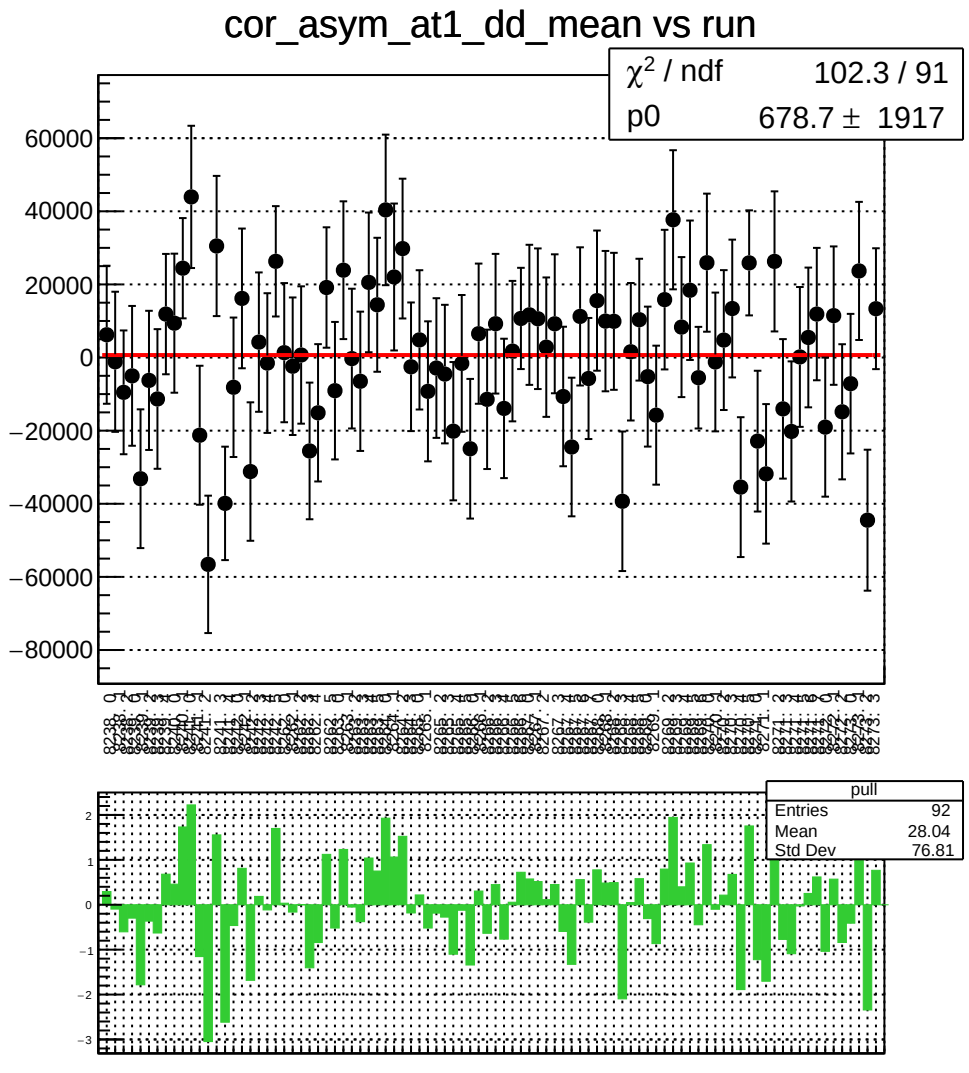

pull1D
Entries 92
Mean −0.01397
Std Dev 1.054

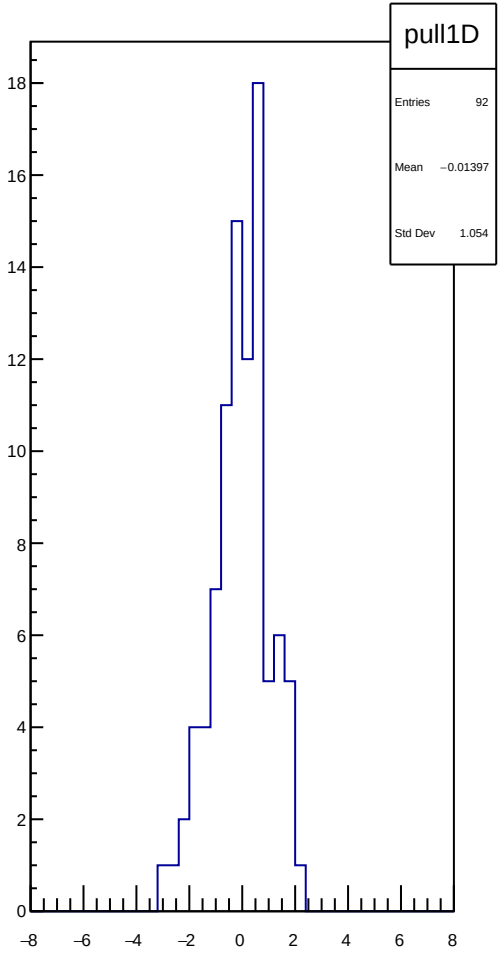

reg_asym_at1_dd_rms vs run
$\chi^2$ / ndf 241.3 / 91
p0 1810 ± 1.356
1950
1900
1850
1800
1750

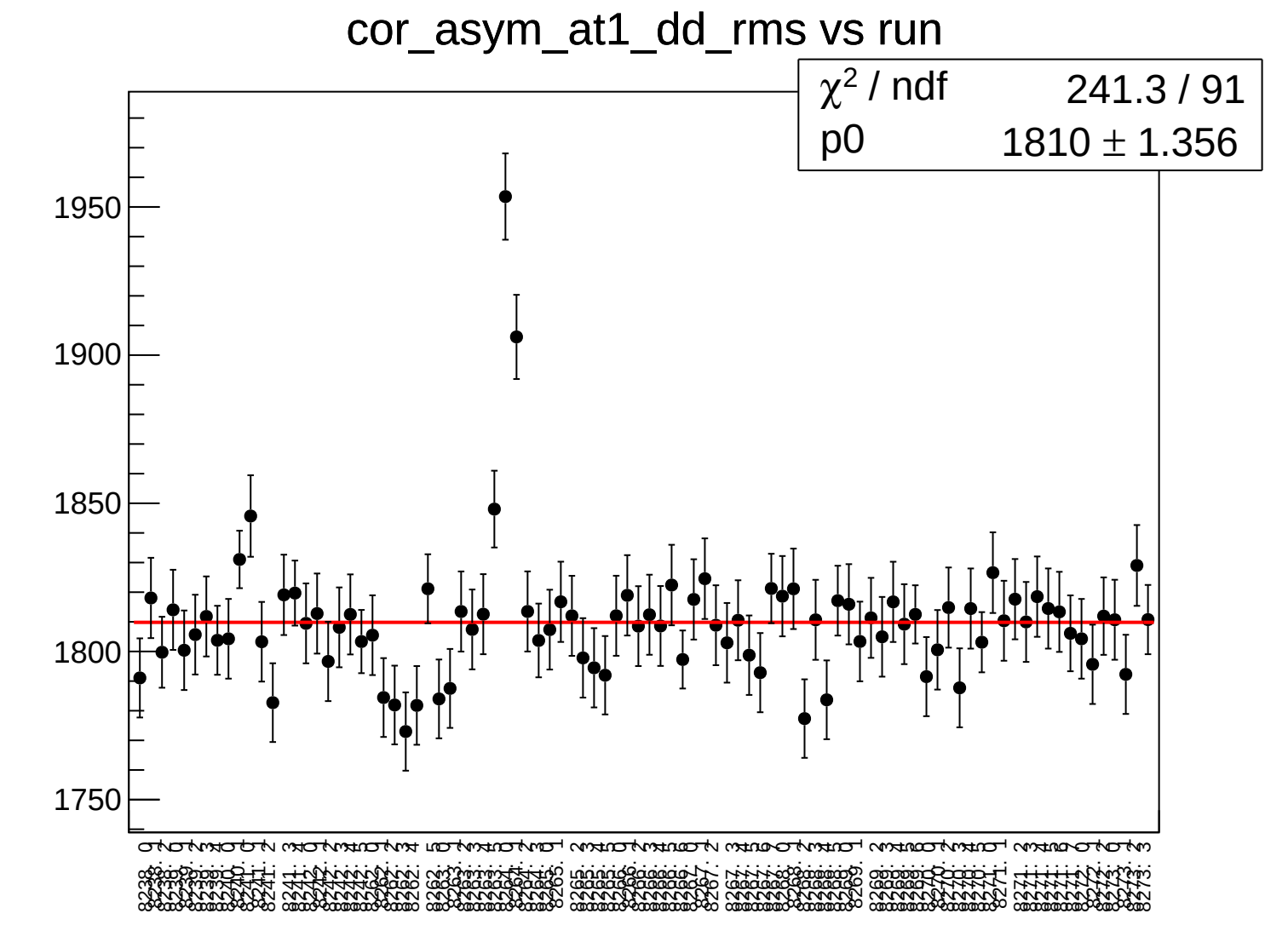

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 87.03 / 91
p0 412.9 ± 734.7
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 384.2
Std Dev 0
2
1
0
−1
−2

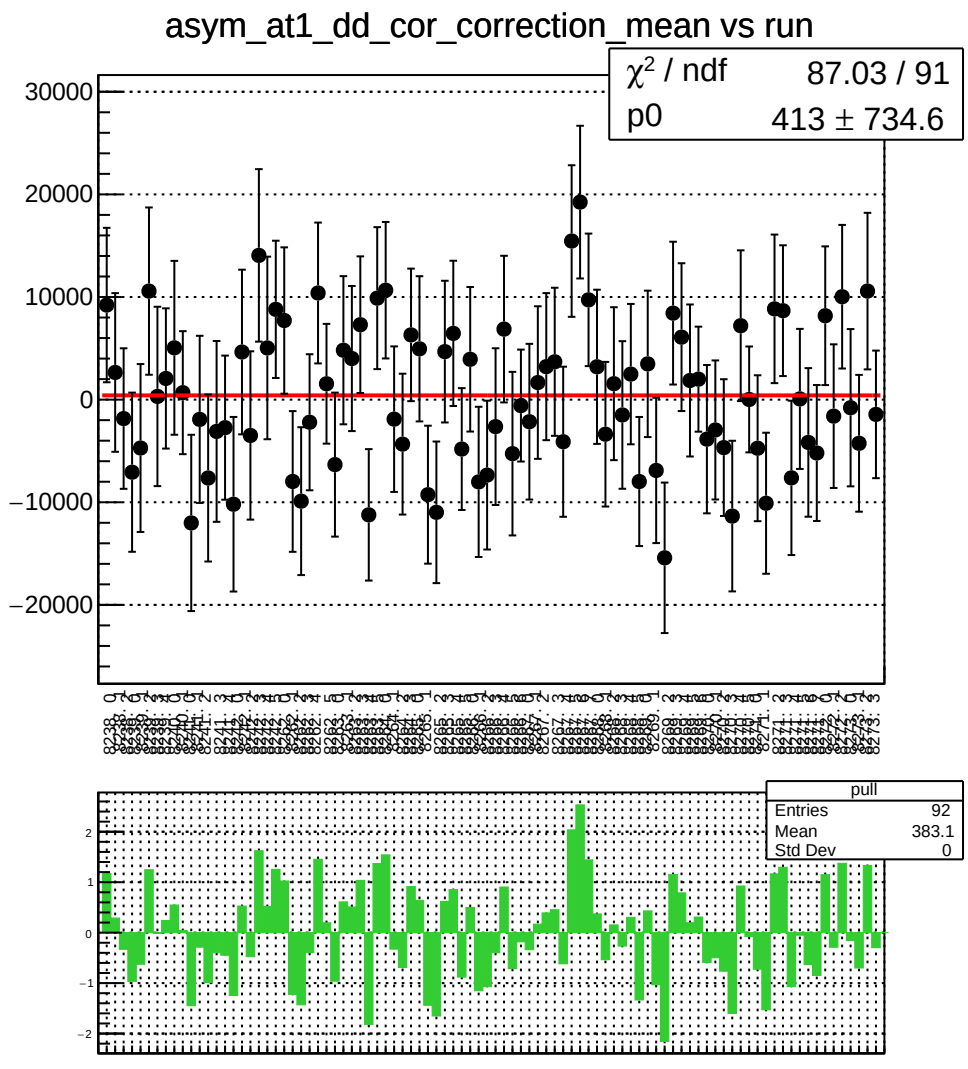

pull1D
Entries 92
Mean −0.0006577
Std Dev 0.9726
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

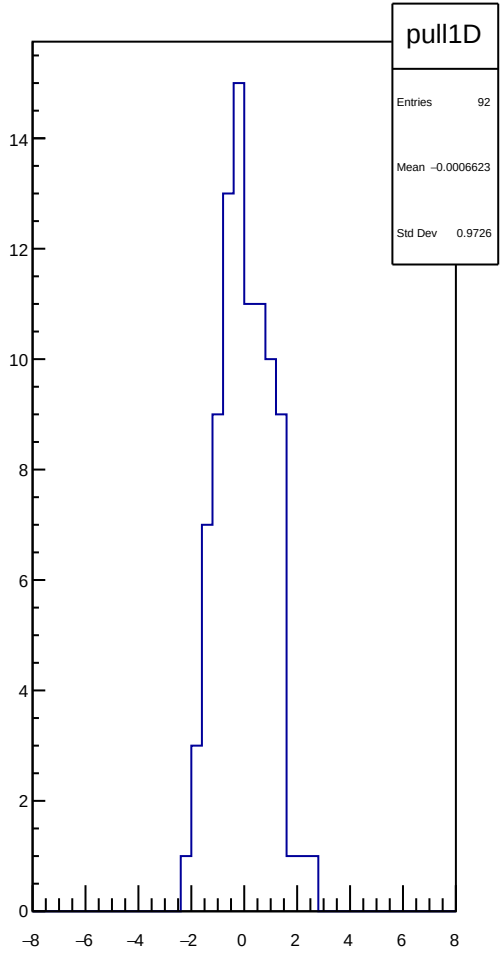

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1.083e+04 / 91
p0 691.5 ± 0.5195
850
800
750
700
650
600
550


cor_asym_at1_dd_mean vs run
χ² / ndf 102.3 / 91
p0 678.7 ± 1917
pull
Entries 92
Mean 28.04
Std Dev 76.81


pull1D
Entries 92
Mean −0.01397
Std Dev 1.054


cor_asym_at1_dd_rms vs run
$\chi^2$ / ndf 241.3 / 91
p0 1810 ± 1.356
1950
1900
1850
1800
1750


asym_at1_dd_cor_correction_mean vs run
χ² / ndf 87.03 / 91
p0 413 ± 734.6
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 383.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 92
Mean −0.0006623
Std Dev 0.9726
14
12
10
8
6
4
2
0
−8
−6
−4
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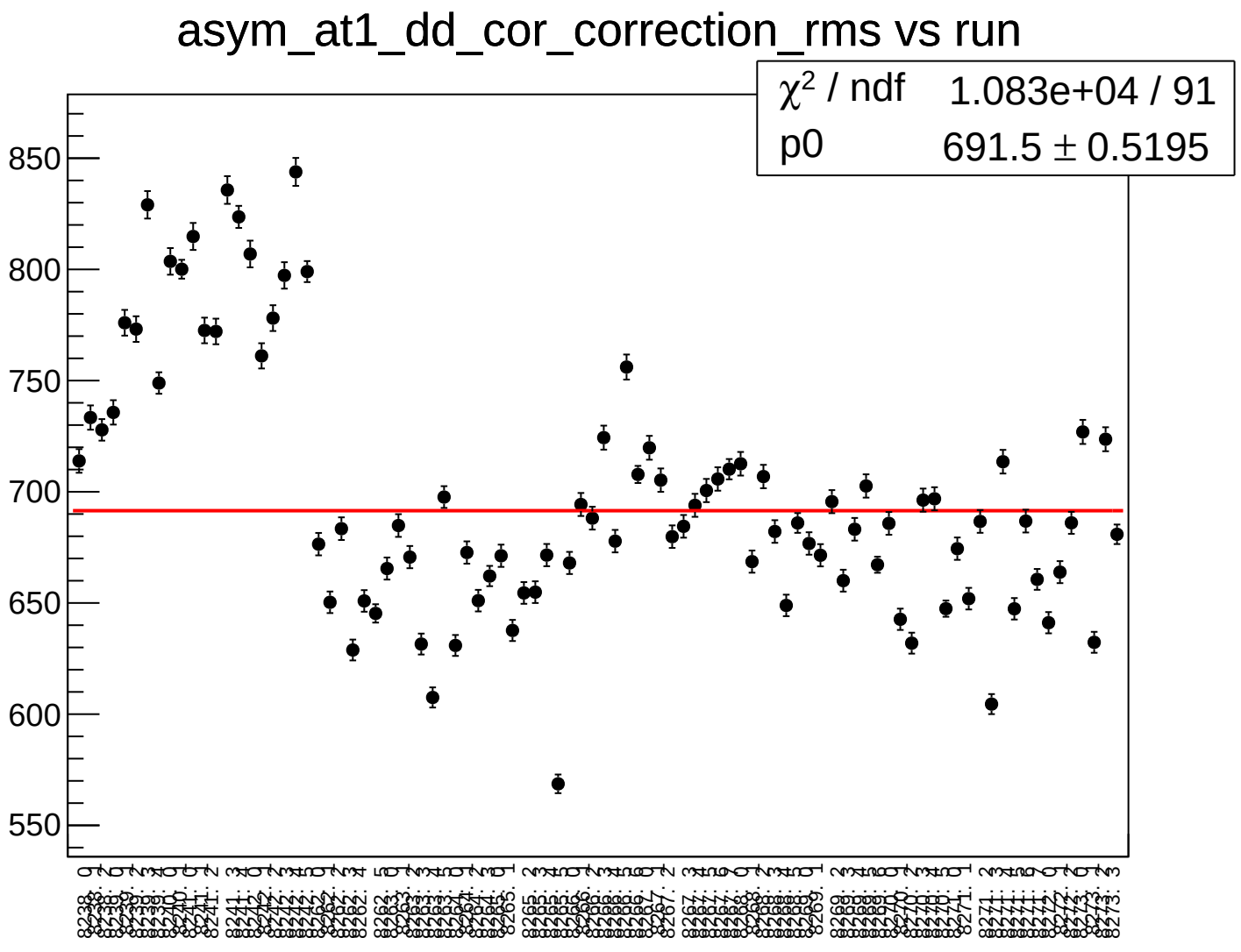
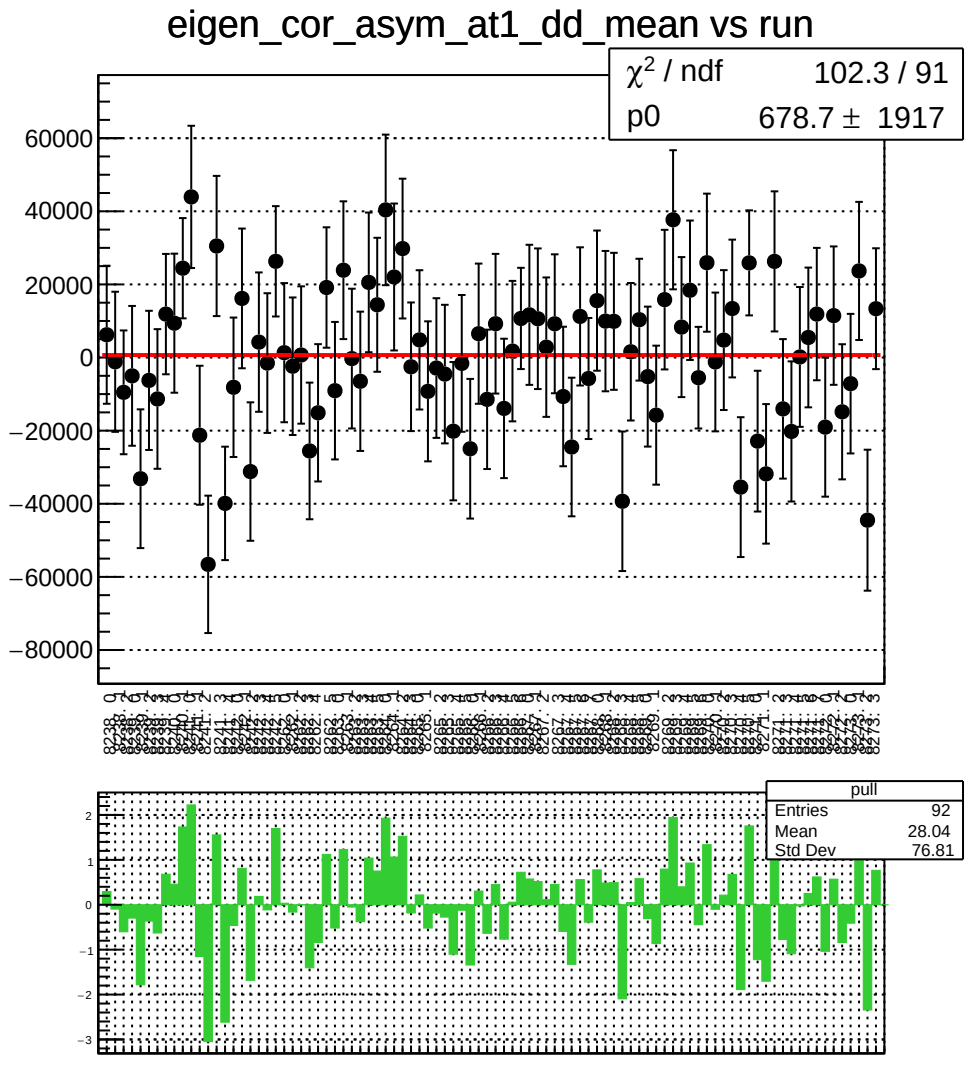
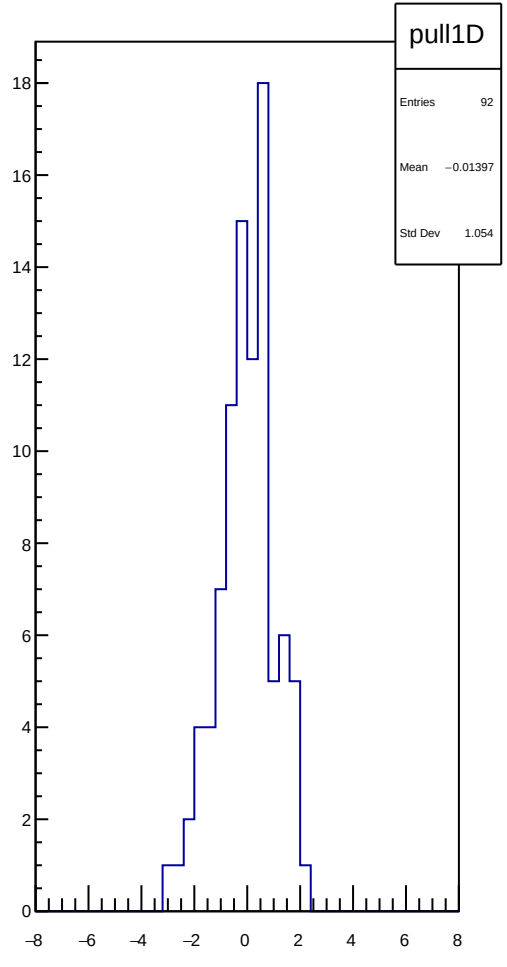
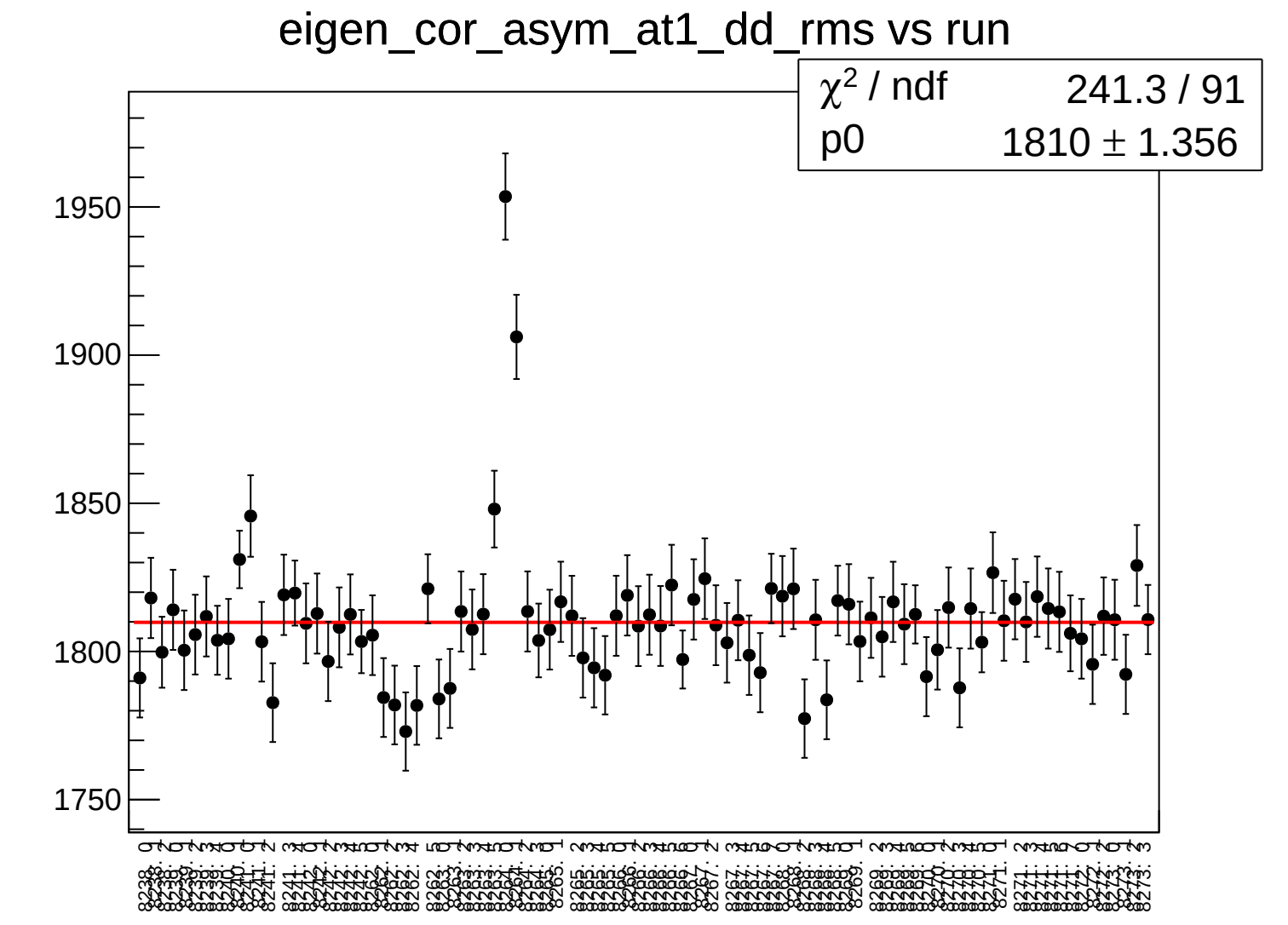
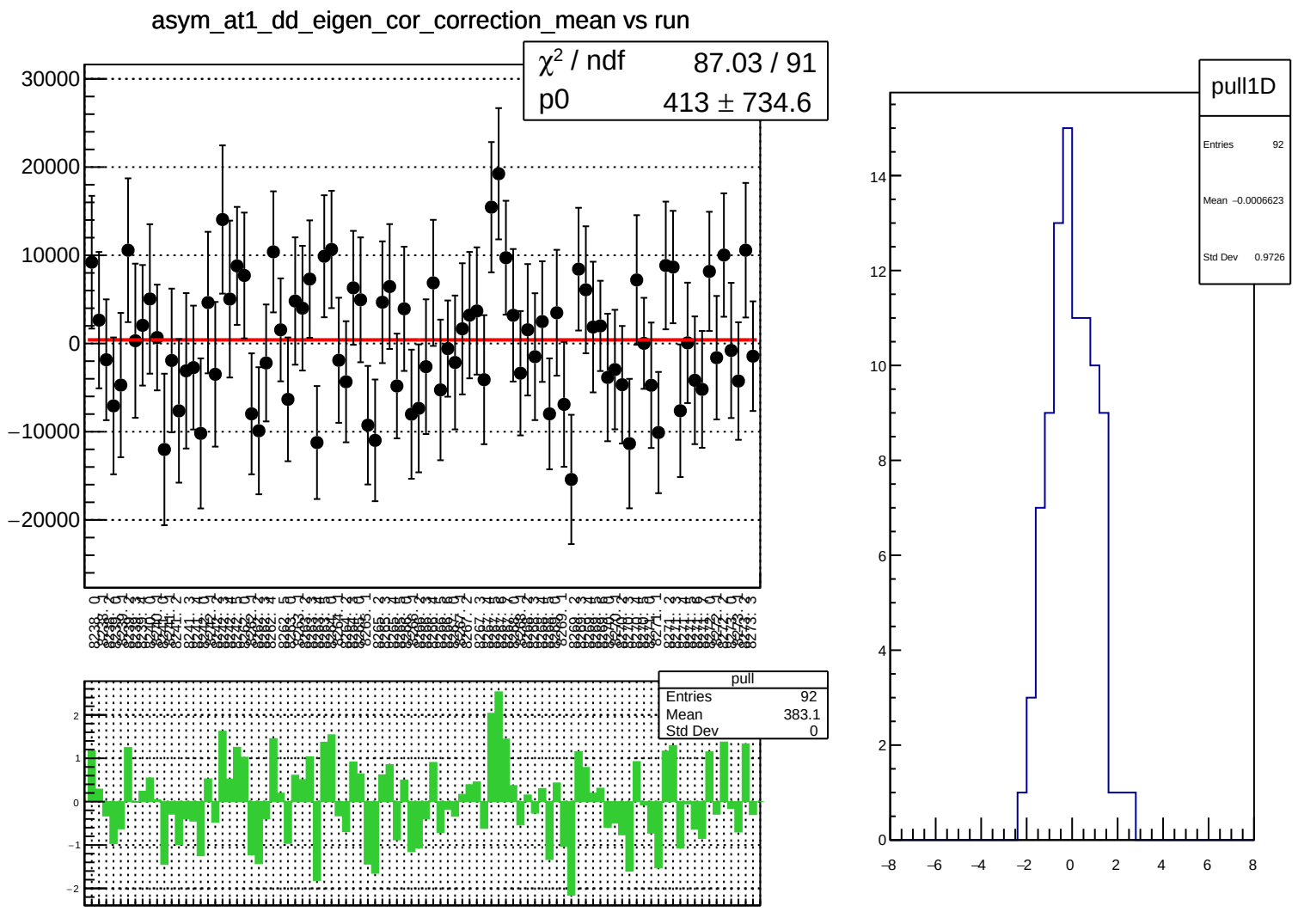
0
2
4
6
8

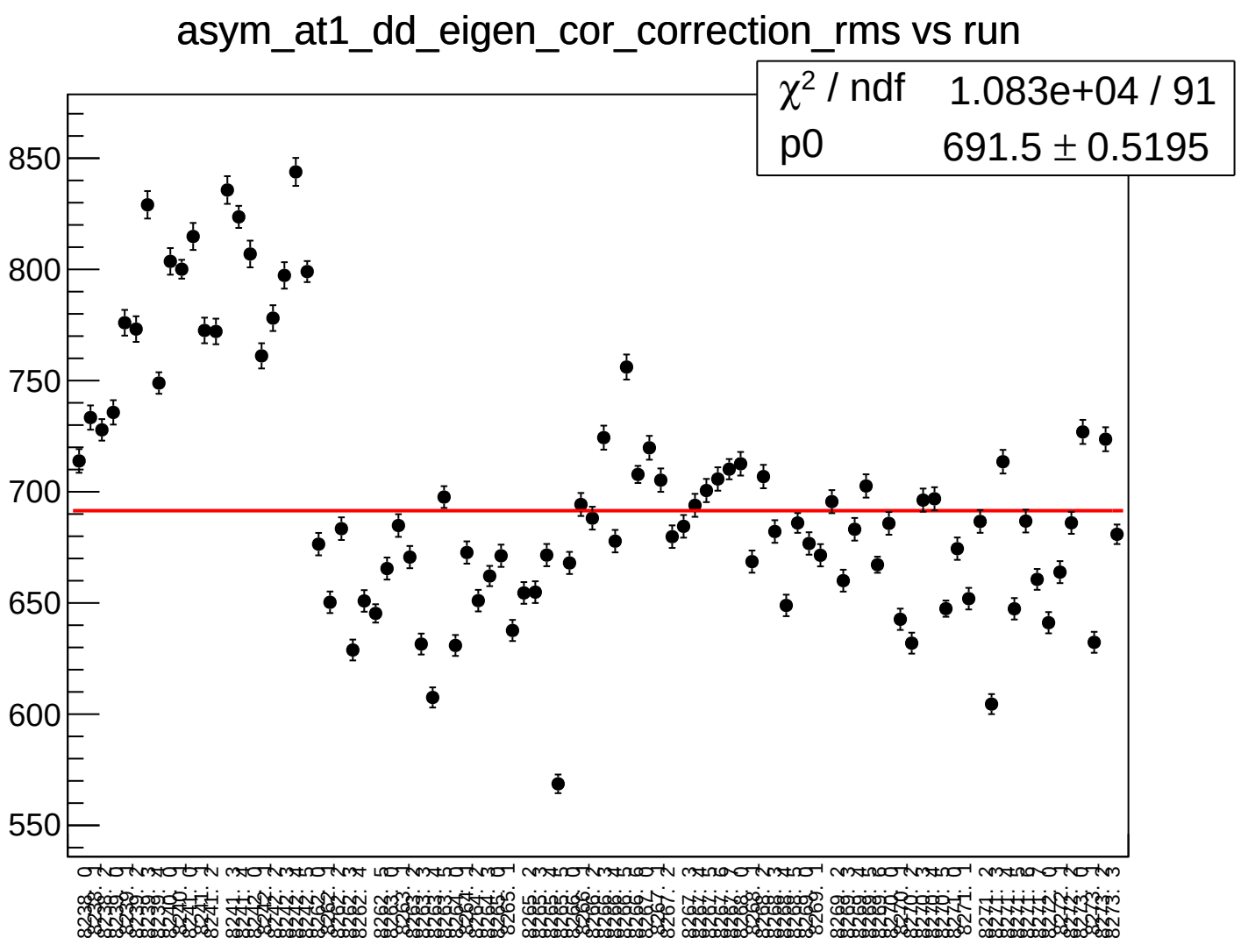

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1.083e+04 / 91
p0 691.5 ± 0.5195
850
800
750
700
650
600
550

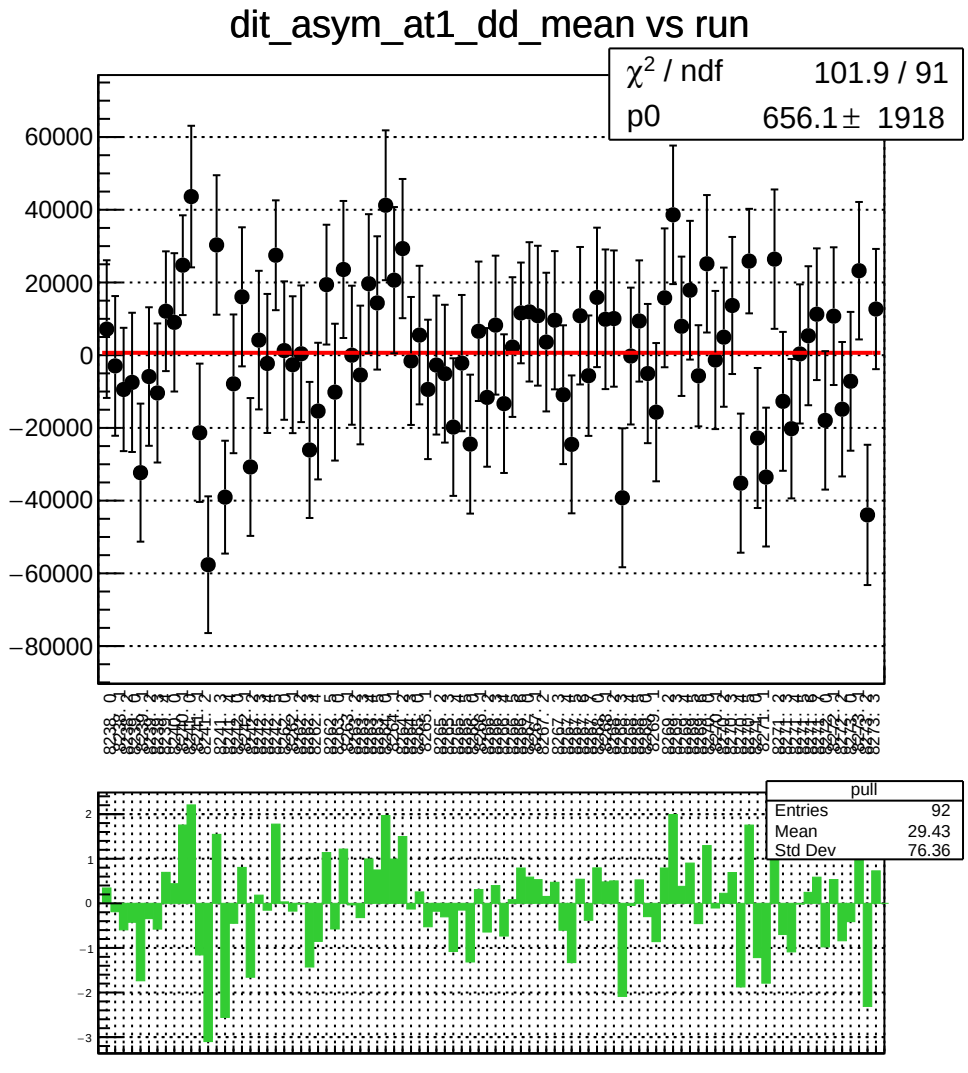

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 102.3 / 91
p0 678.7 ± 1917
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 28.04
Std Dev 76.81
2
1
0
−1
−2
−3

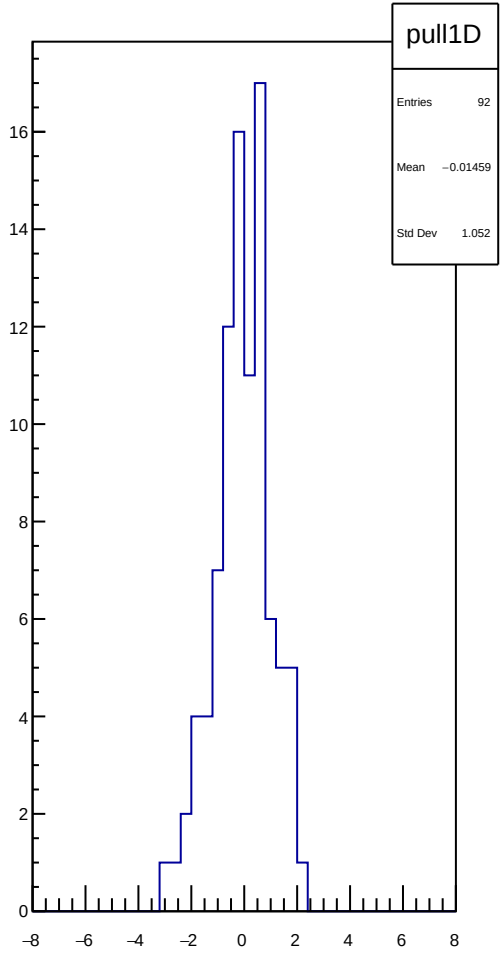

pull1D
Entries 92
Mean −0.01397
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

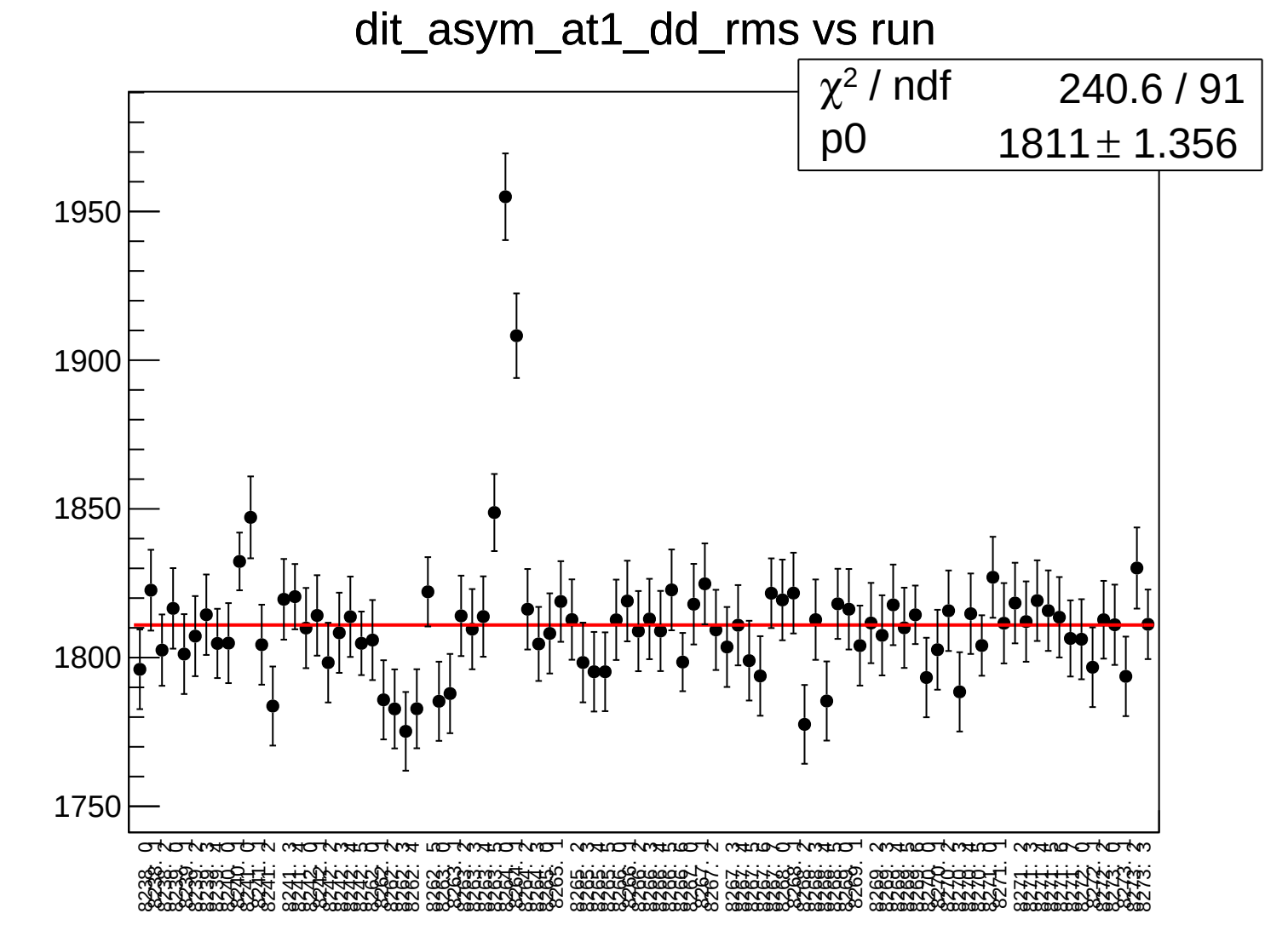

eigen_cor_asym_at1_dd_rms vs run
$\chi^2$ / ndf 241.3 / 91
p0 1810 ± 1.356
1950
1900
1850
1800
1750

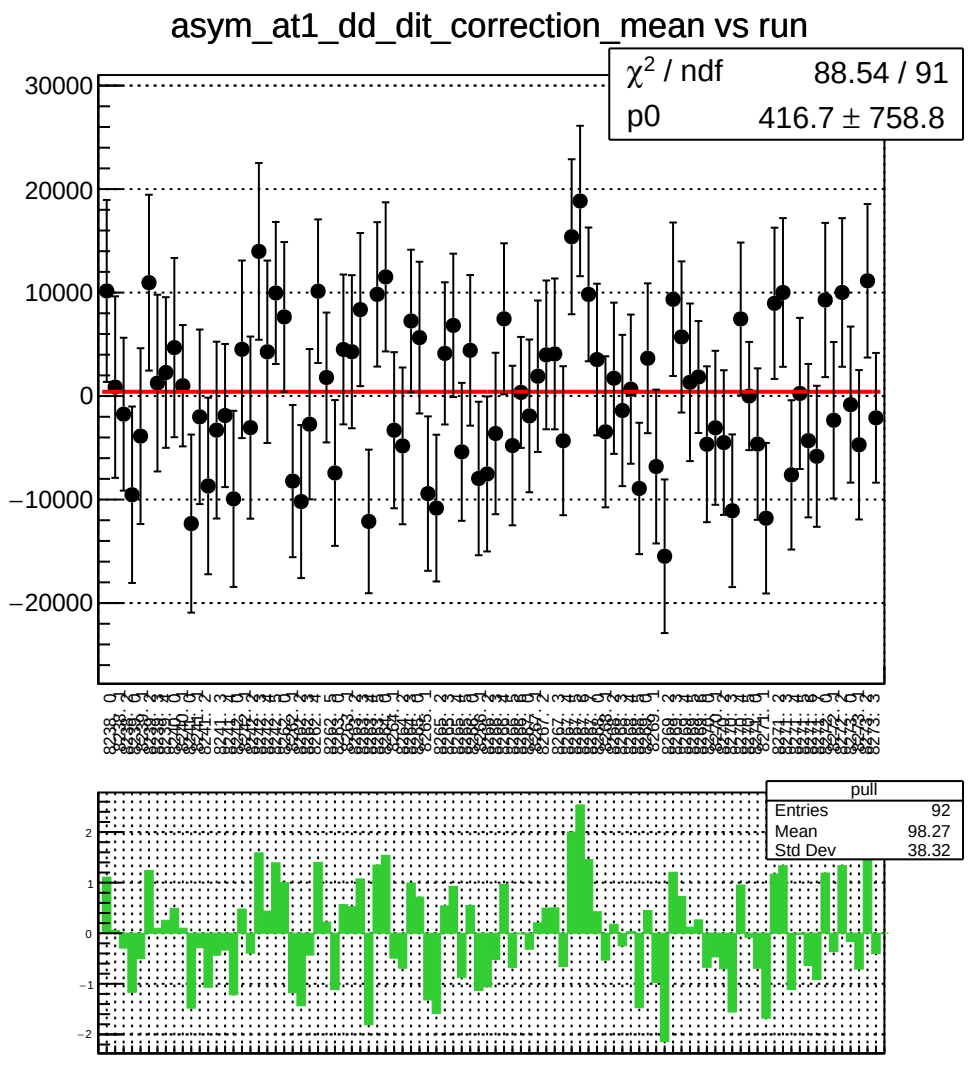

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.03 / 91
p0 413 ± 734.6
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 383.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0006623
Std Dev 0.9726
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

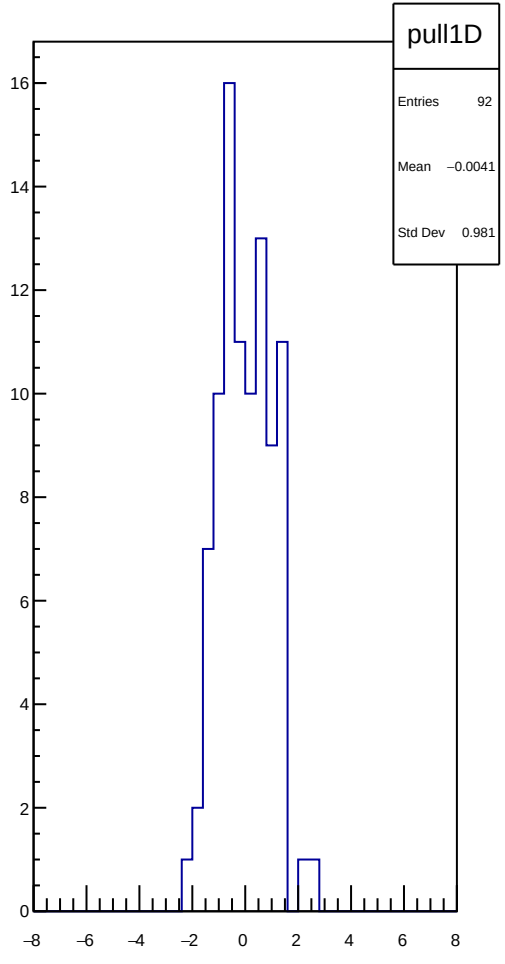

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.083e+04 / 91
p0 691.5 ± 0.5195
850
800
750
700
650
600
550

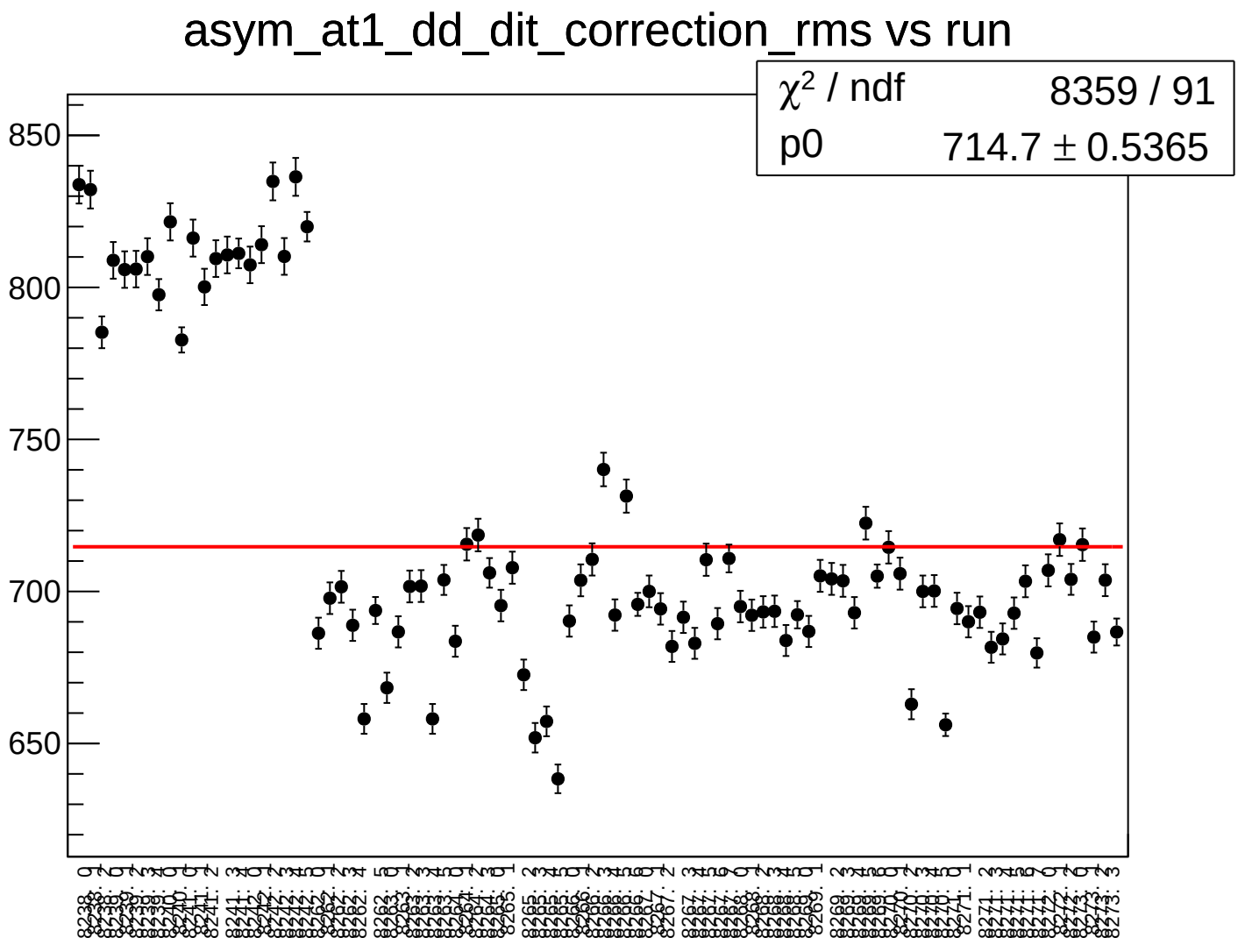

dit_asym_at1_dd_mean vs run
χ² / ndf 101.9 / 91
p0 656.1 ± 1918
pull
Entries 92
Mean 29.43
Std Dev 76.36

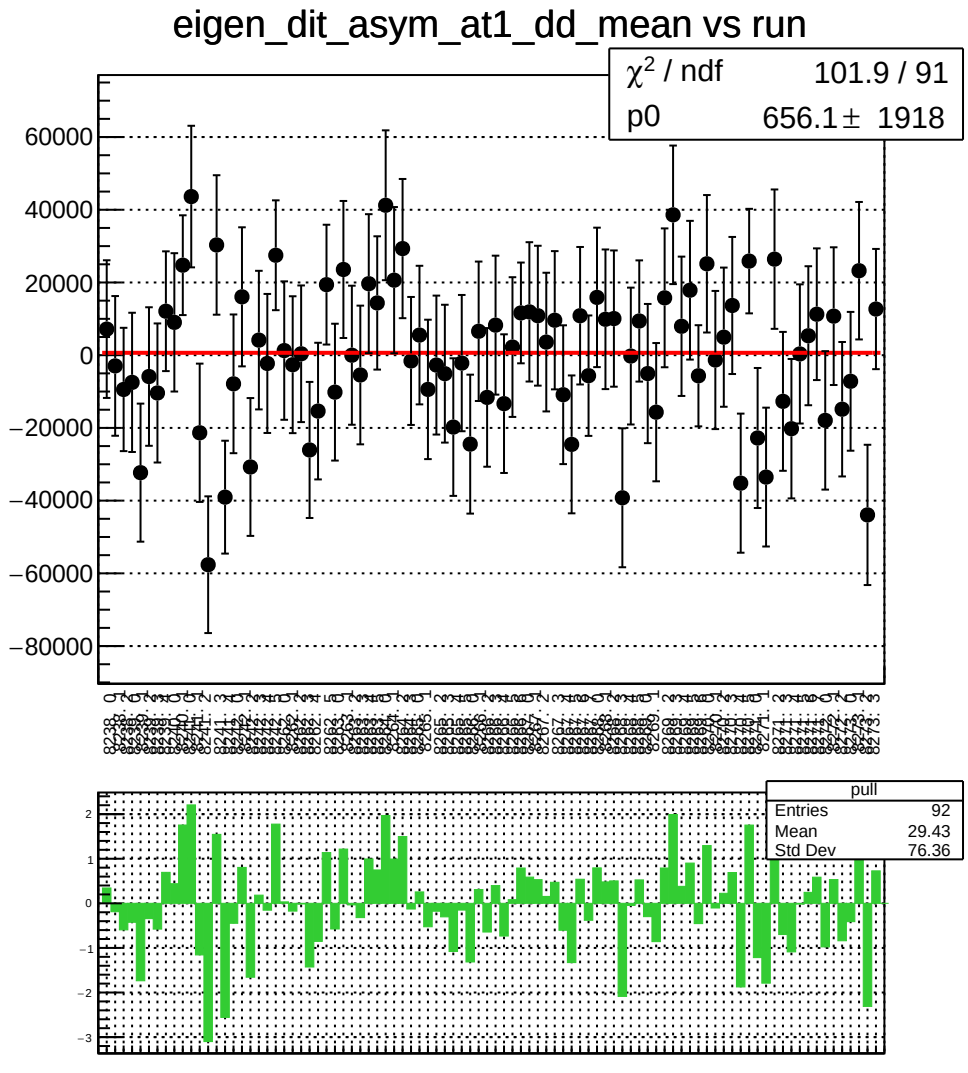

pull1D
Entries 92
Mean −0.01459
Std Dev 1.052

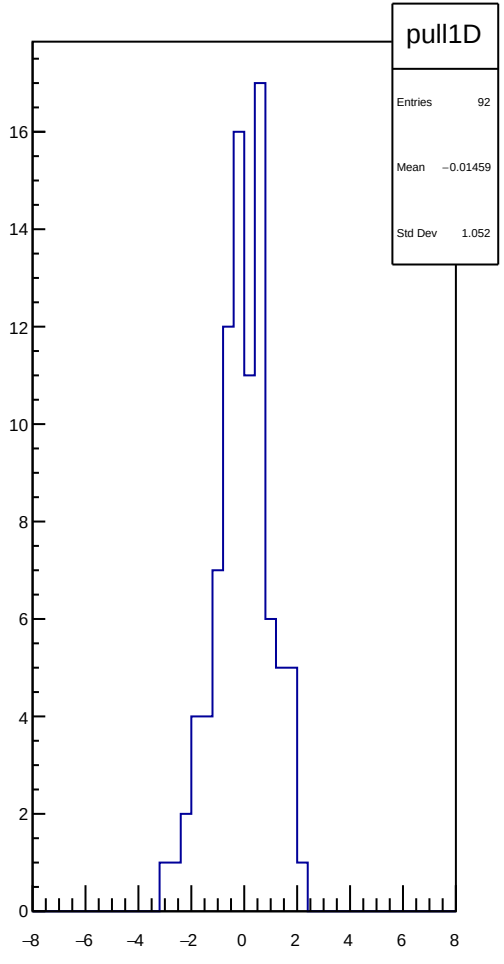

dit_asym_at1_dd_rms vs run
χ² / ndf 240.6 / 91
p0 1811 ± 1.356
1950
1900
1850
1800
1750

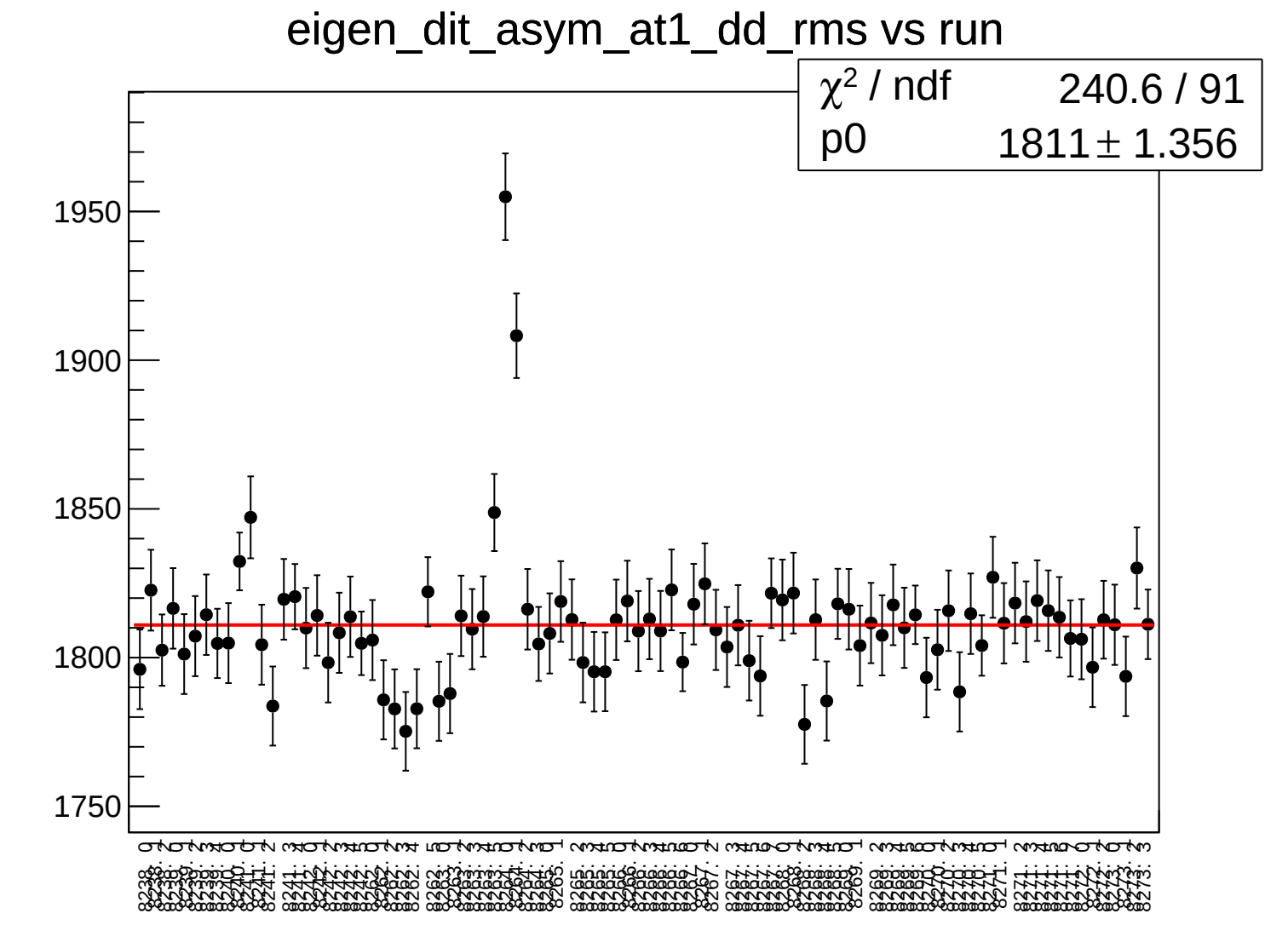

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 88.54 / 91
p0 416.7 ± 758.8
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 98.27
Std Dev 38.32
2
1
0
−1
−2

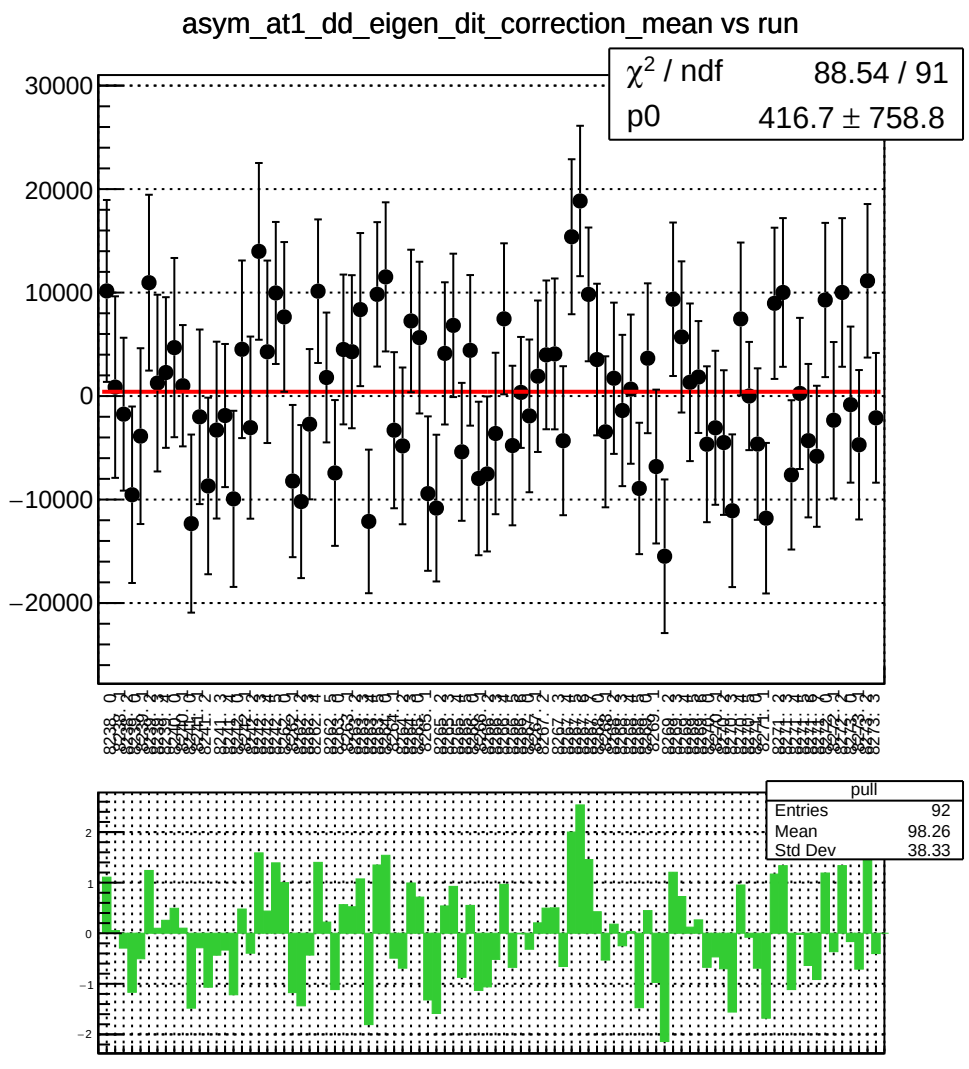

pull1D
Entries 92
Mean −0.0041
Std Dev 0.981
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

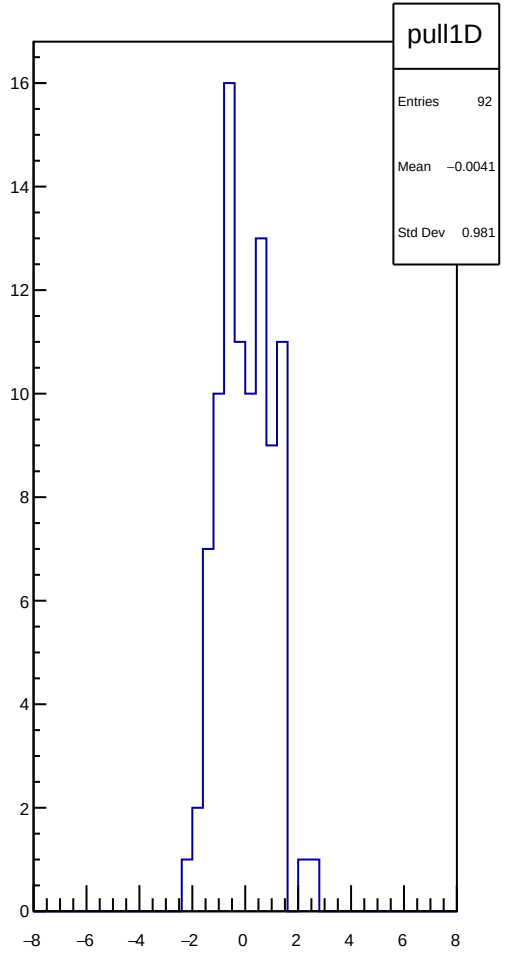

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 8359 / 91
p0 714.7 ± 0.5365
850
800
750
700
650

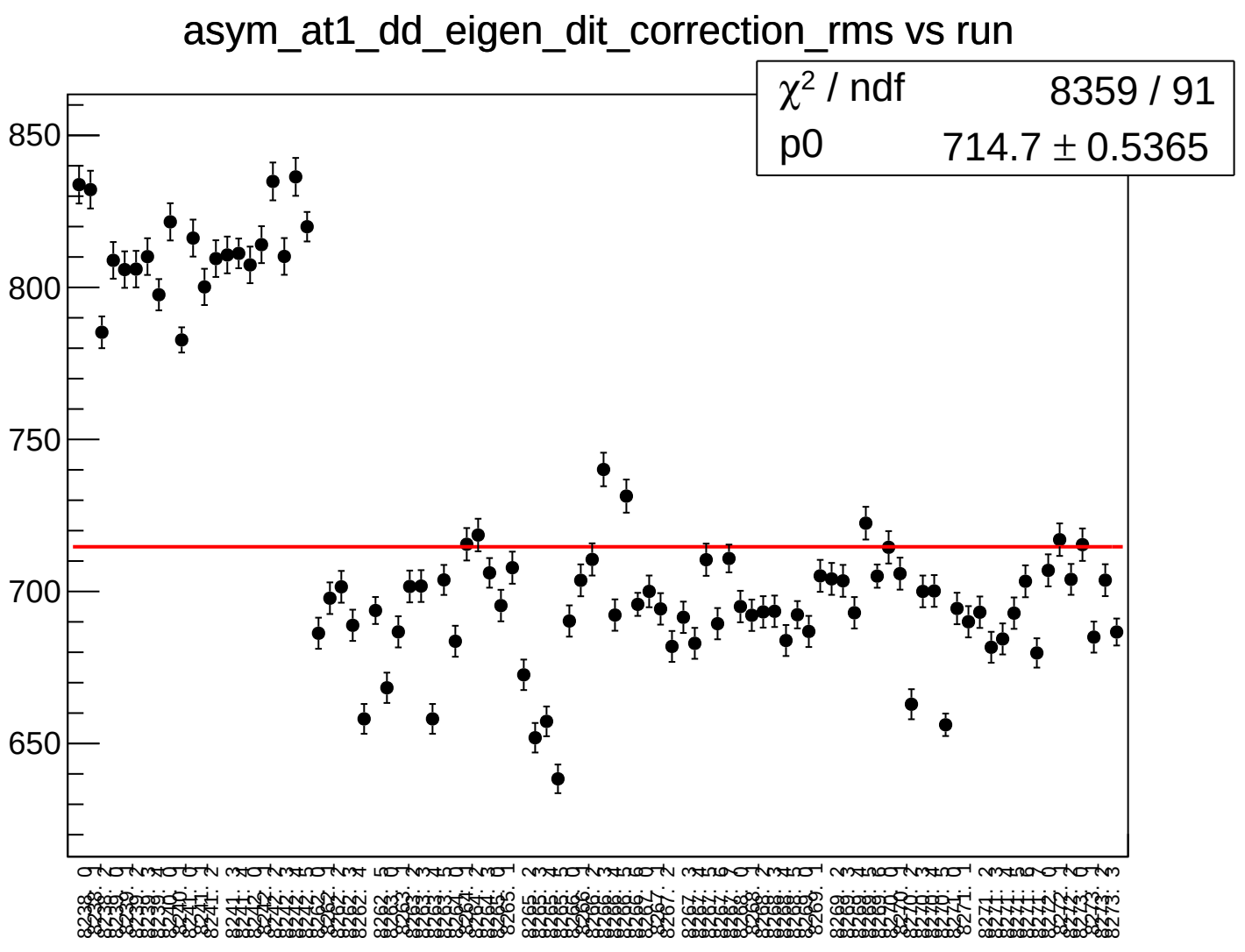

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 101.9 / 91
p0 656.1 ± 1918
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 29.43
Std Dev 76.36
2
1
0
−1
−2
−3

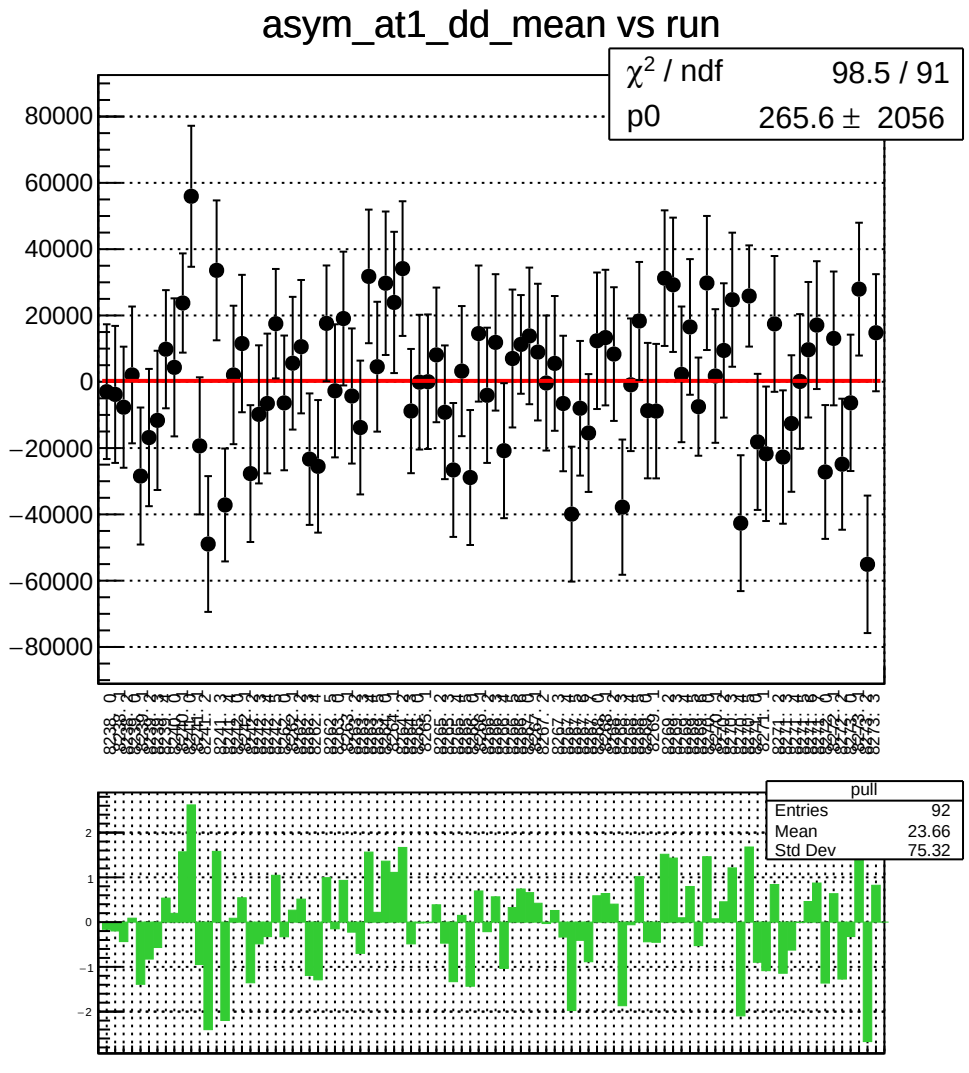

pull1D
Entries 92
Mean −0.01459
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

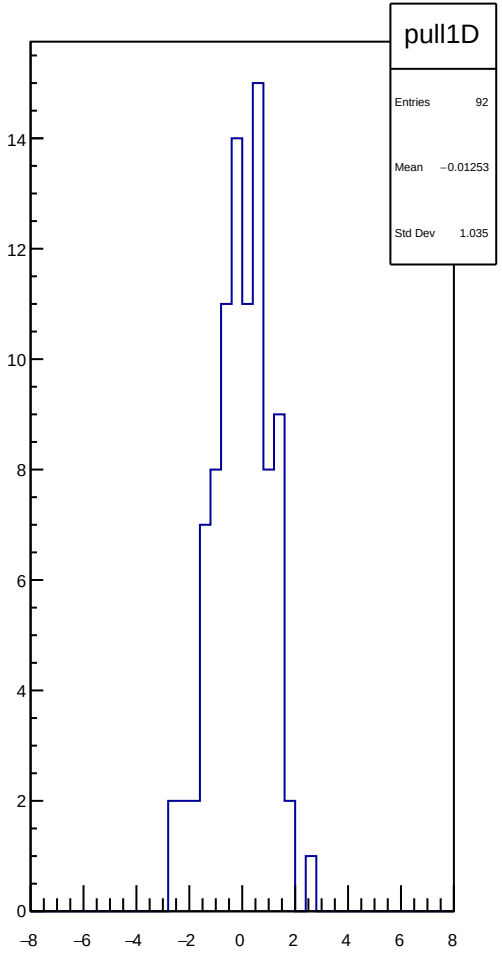

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 240.6 / 91
p0 1811 ± 1.356
1950
1900
1850
1800
1750

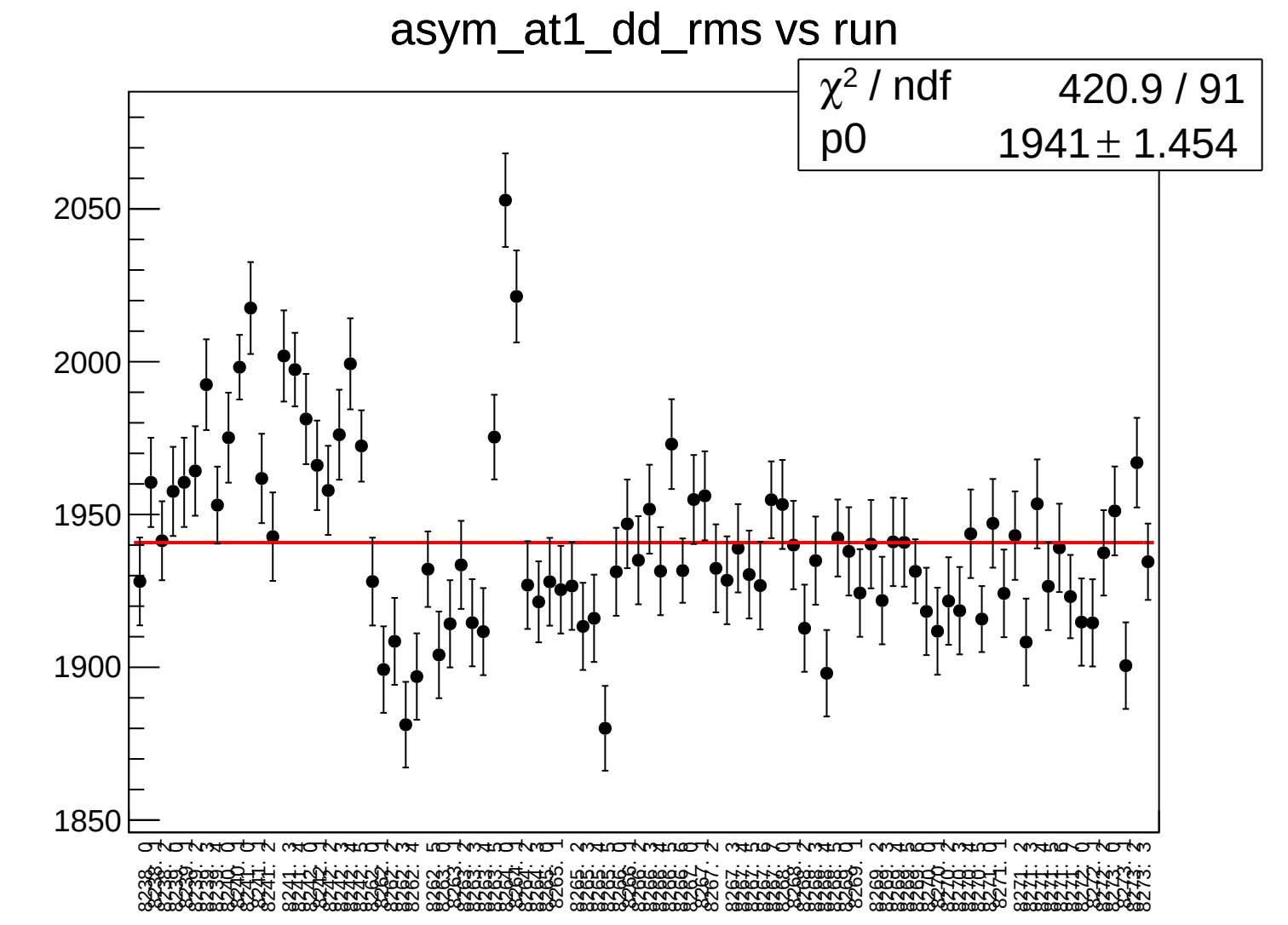

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.54 / 91
p0 416.7 ± 758.8
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 98.26
Std Dev 38.33
2
1
0
−1
−2

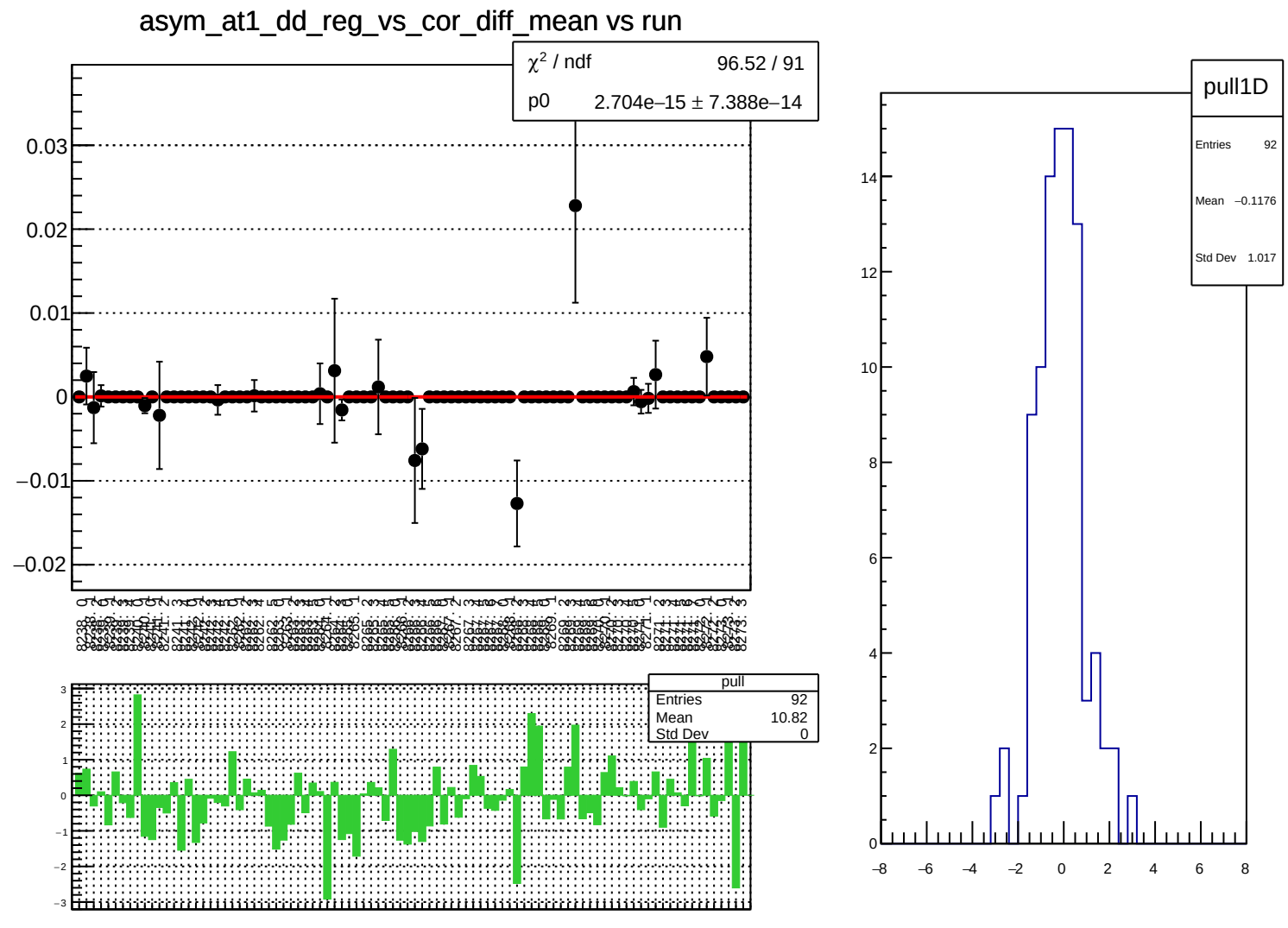

pull1D
Entries 92
Mean −0.0041
Std Dev 0.981
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

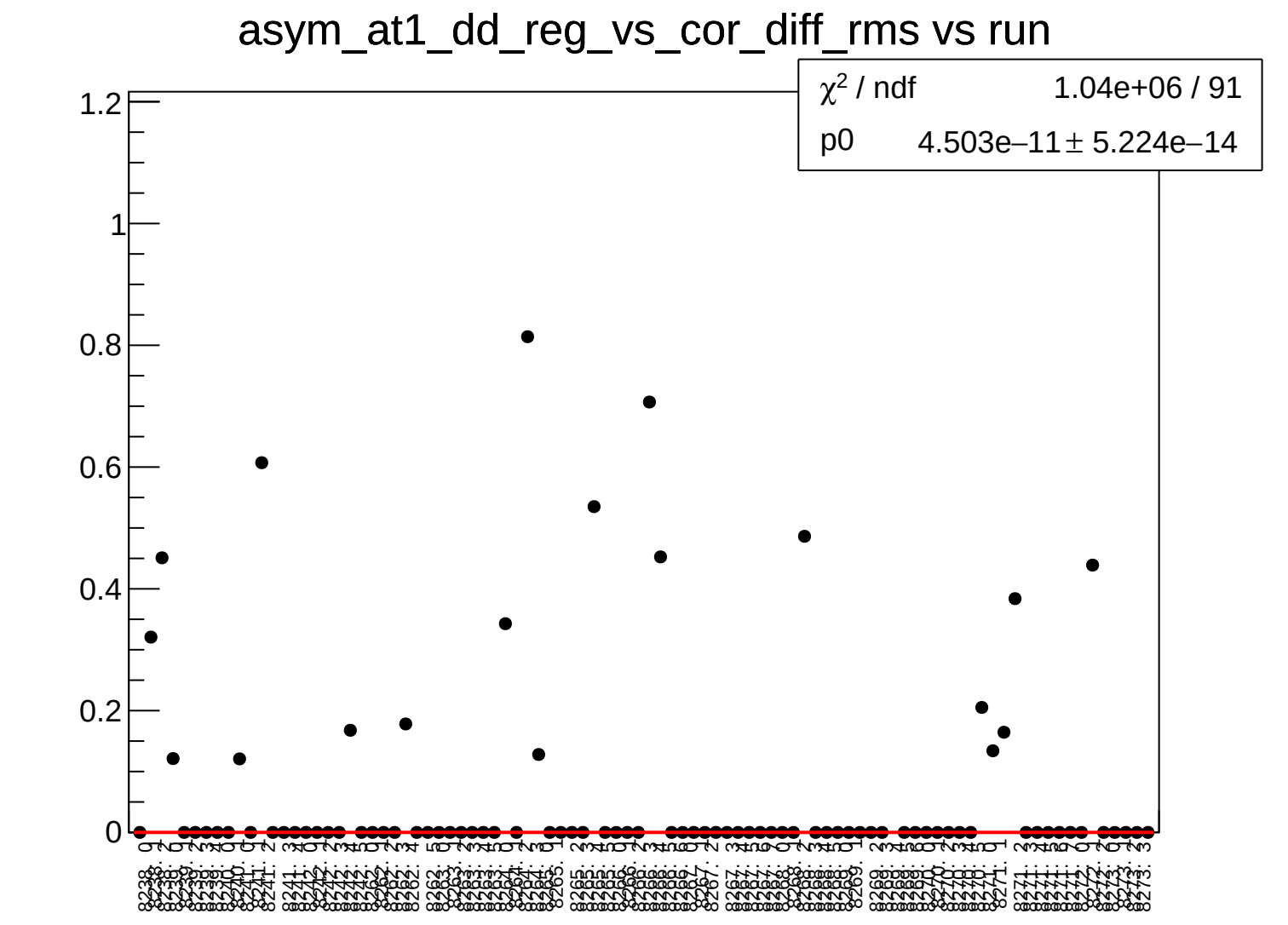

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 8359 / 91
p0 714.7 ± 0.5365
850
800
750
700
650

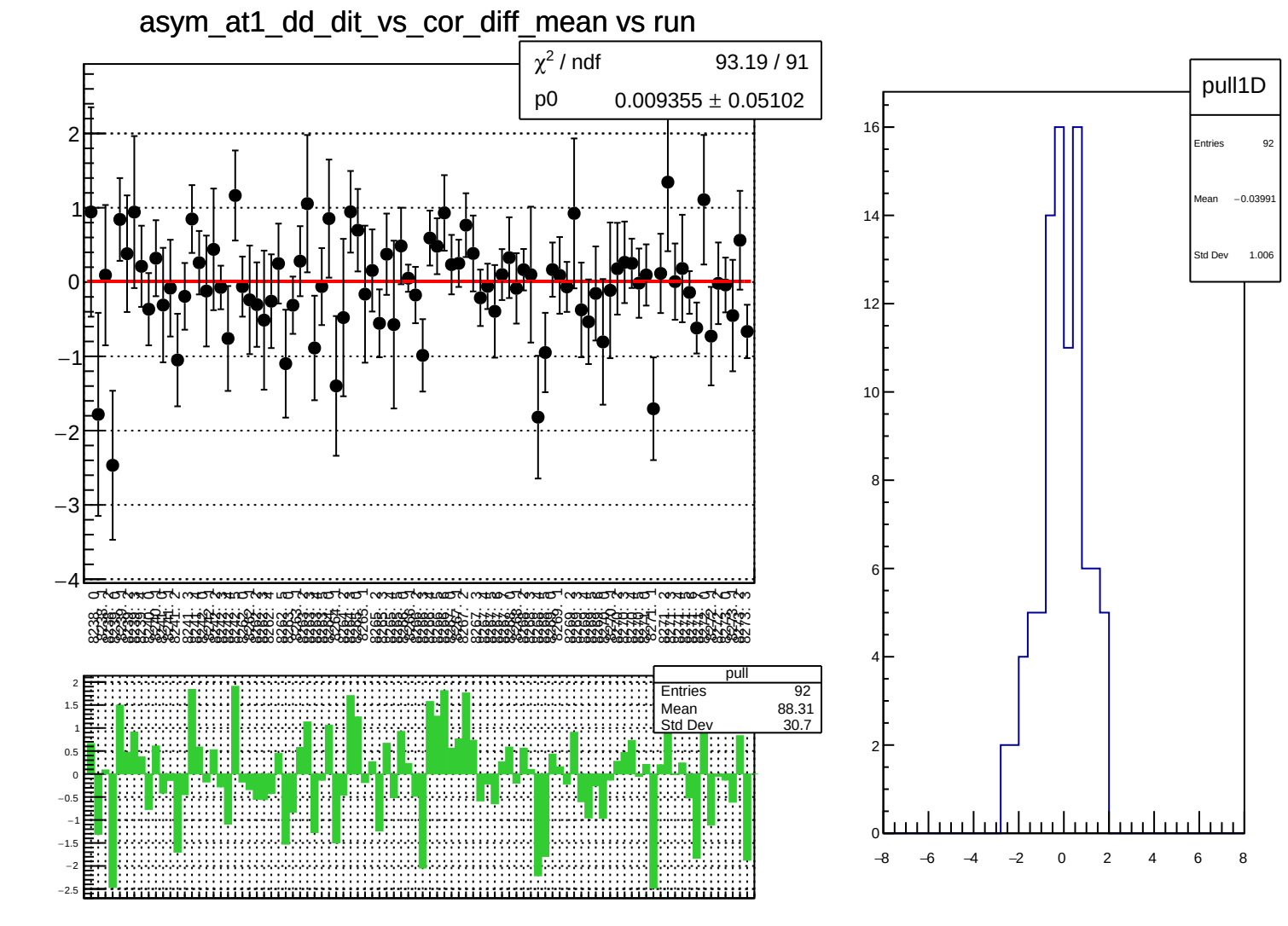

asym_at1_dd_mean vs run
χ² / ndf 98.5 / 91
p0 265.6 ± 2056
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 23.66
Std Dev 75.32
2
1
0
−1
−2

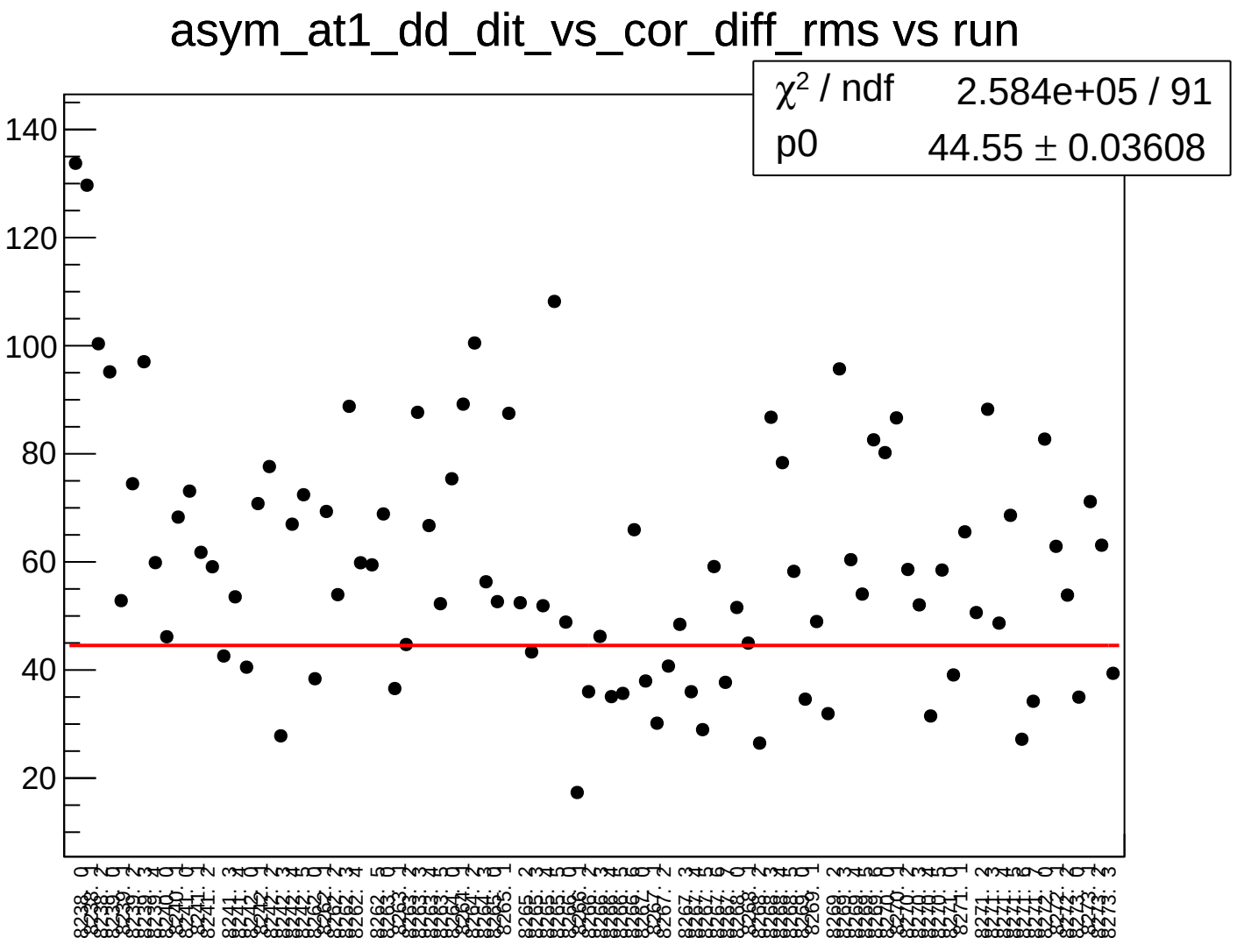

pull1D
Entries 92
Mean −0.01253
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

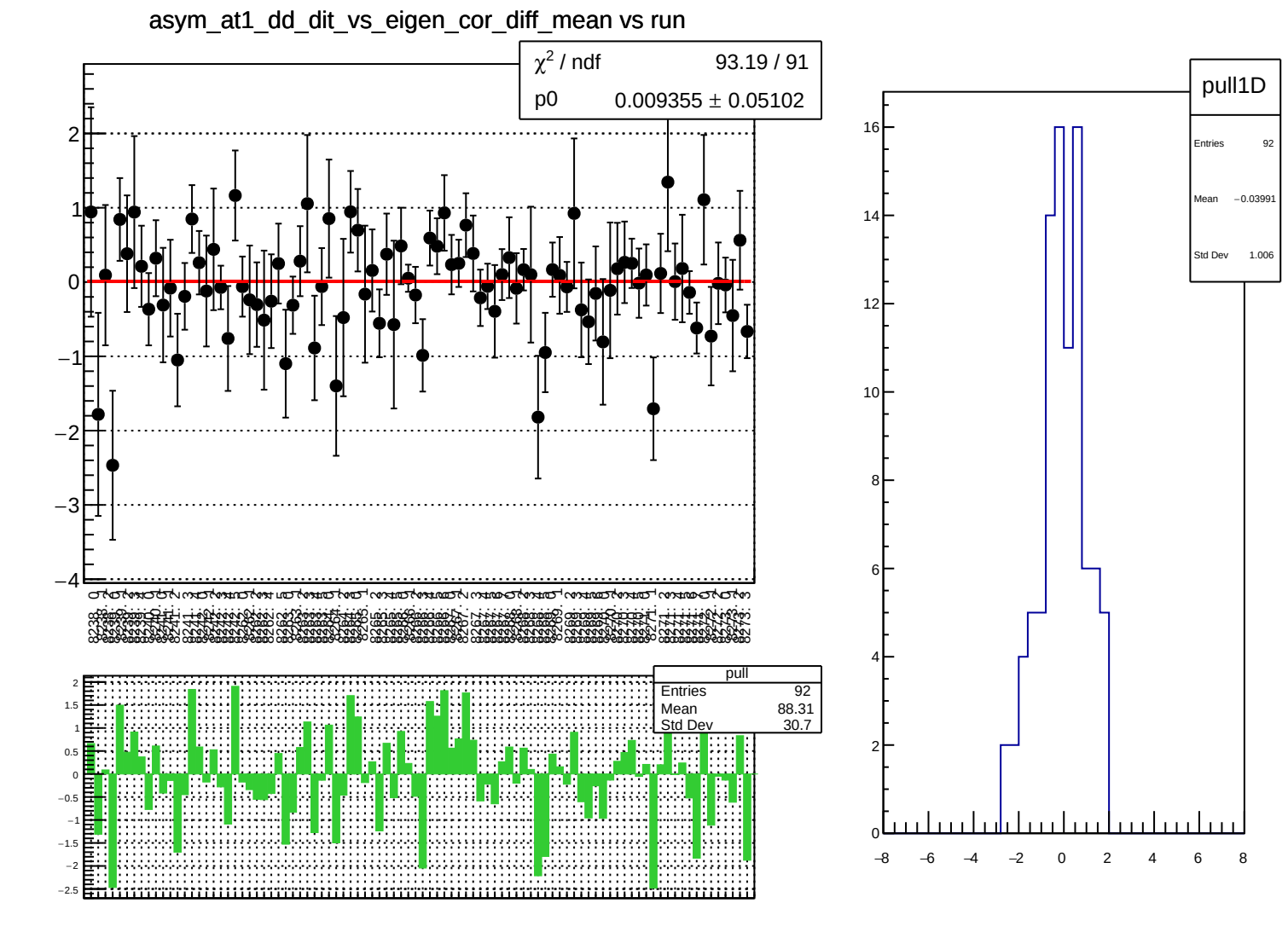

asym_at1_dd_rms vs run
χ² / ndf 420.9 / 91
p0 1941 ± 1.454
2050
2000
1950
1900
1850

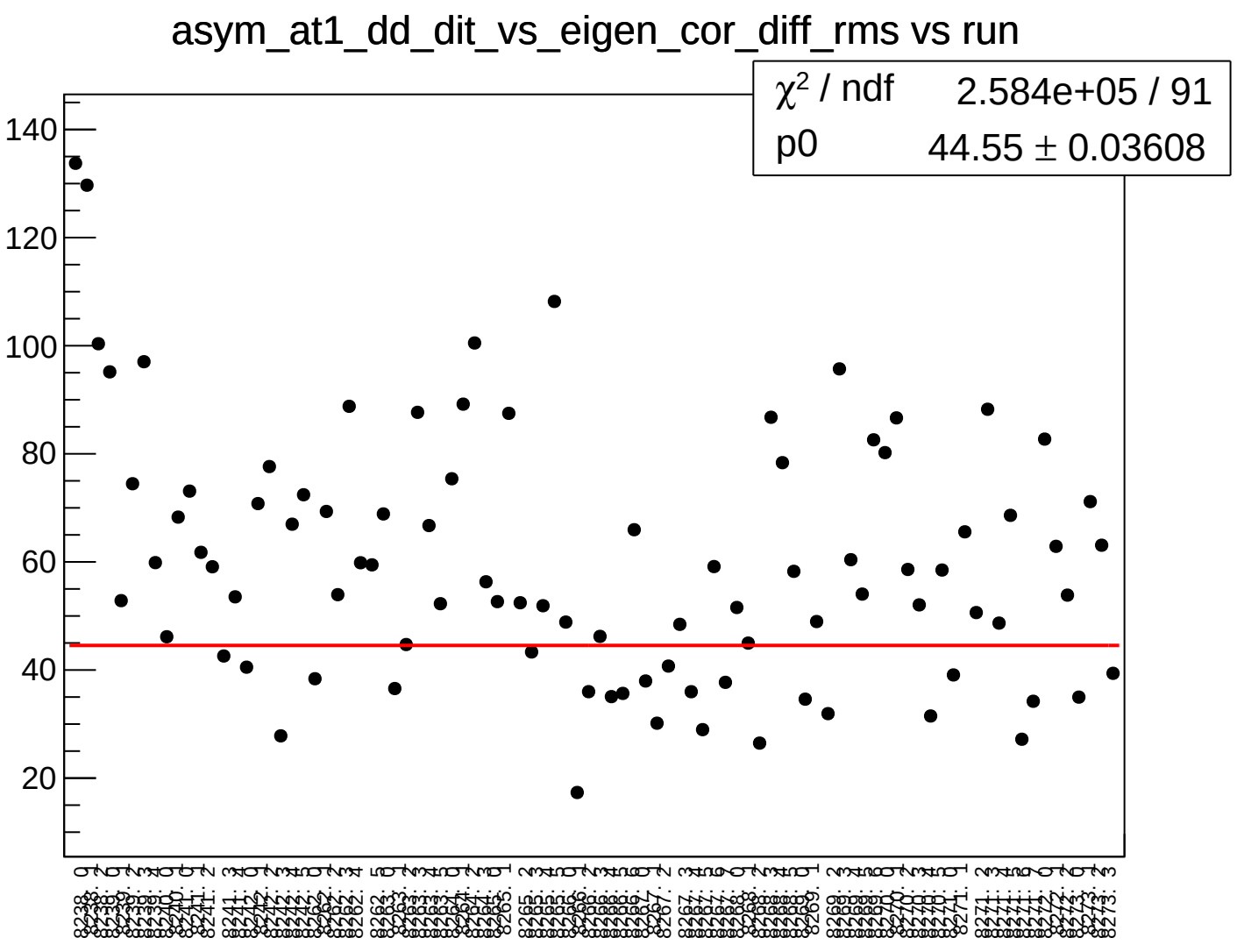

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.52 / 91
p0 2.704e−15 ± 7.388e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean 10.82
Std Dev 0
pull1D
Entries 92
Mean −0.1176
Std Dev 1.017

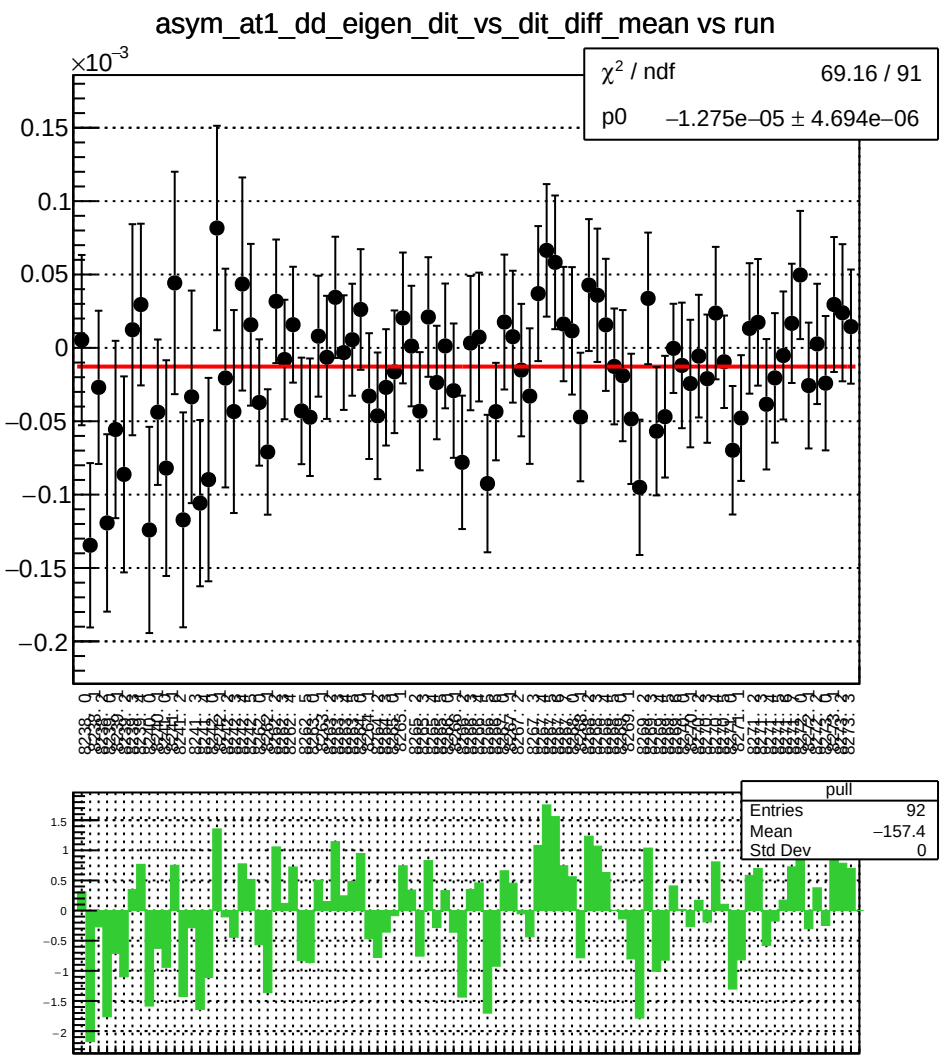

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.04e+06 / 91
p0 4.503e−11 ± 5.224e−14
1.2
1
0.8
0.6
0.4
0.2
0

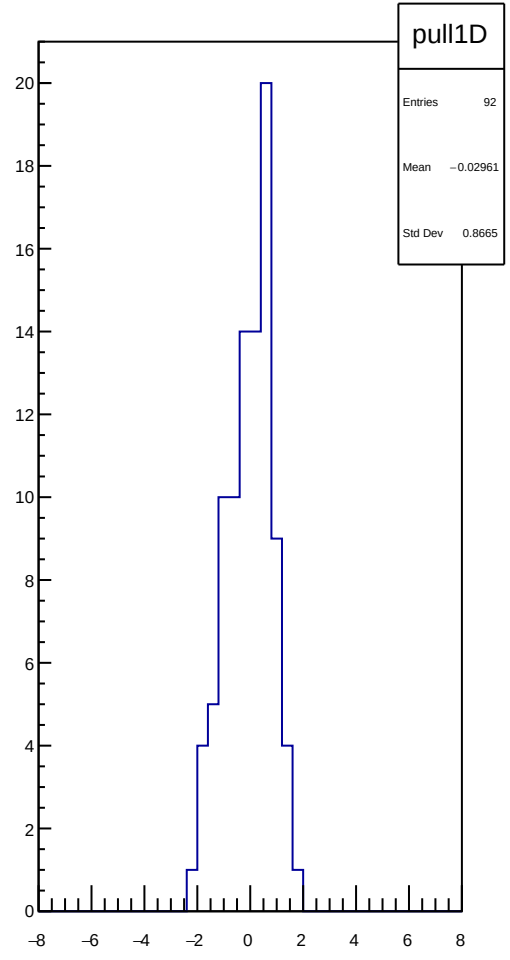

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.19 / 91
p0 0.009355 ± 0.05102
pull
Entries 92
Mean 88.31
Std Dev 30.7
pull1D
Entries 92
Mean −0.03991
Std Dev 1.006

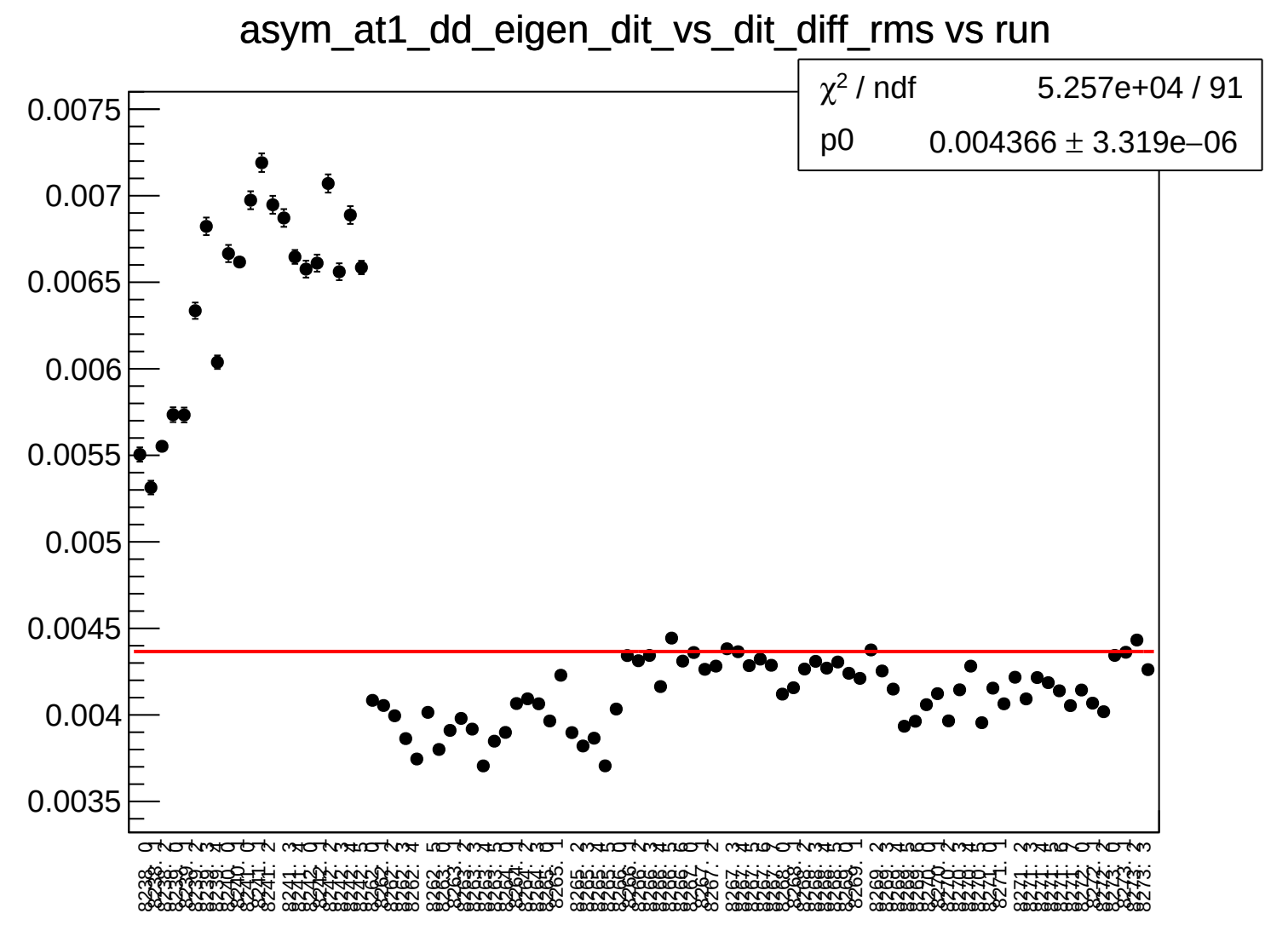

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.584e+05 / 91
p0 44.55 ± 0.03608
140
120
100
80
60
40
20

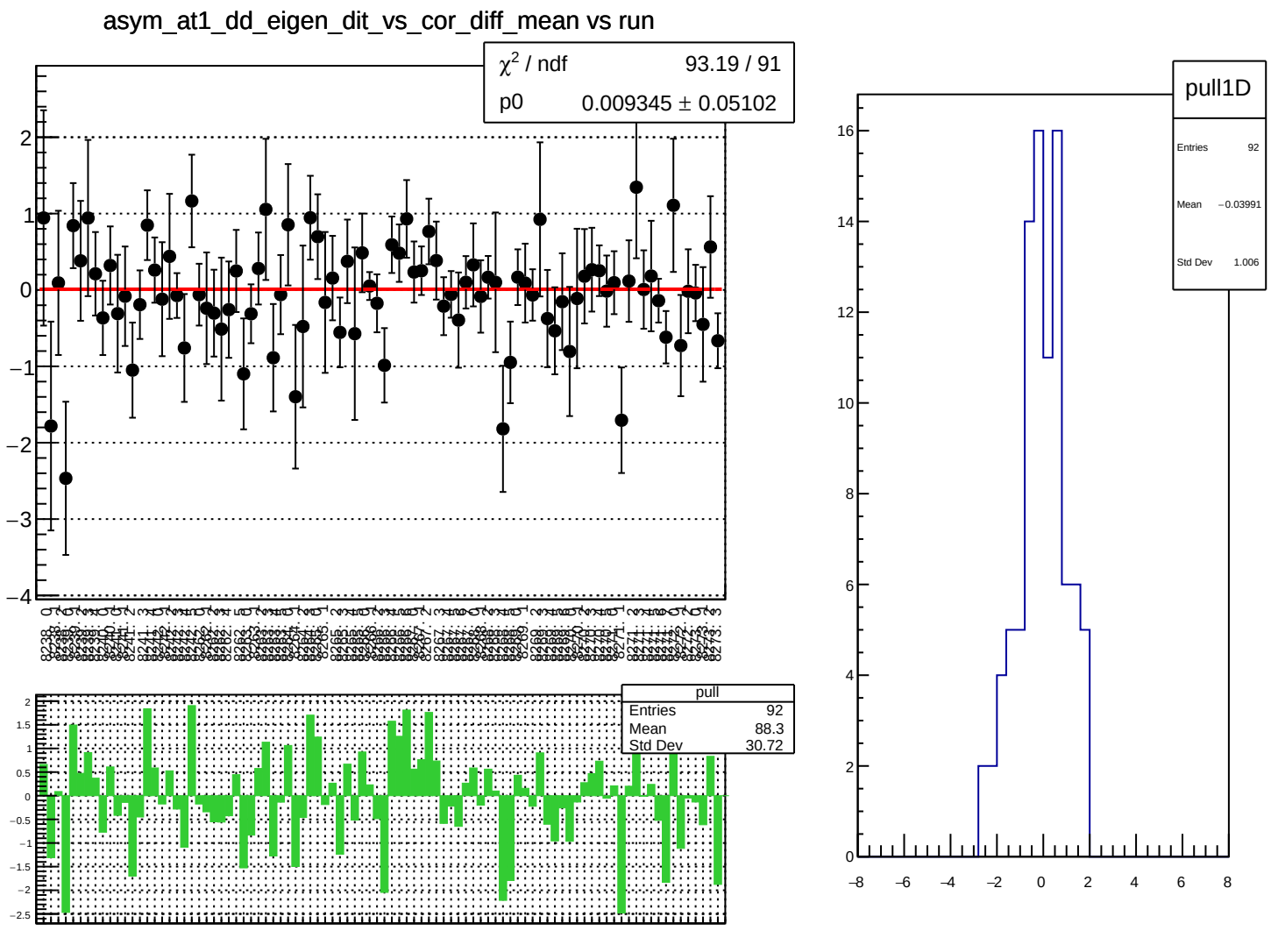

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.19 / 91
p0 0.009355 ± 0.05102
pull
Entries 92
Mean 88.31
Std Dev 30.7
pull1D
Entries 92
Mean −0.03991
Std Dev 1.006

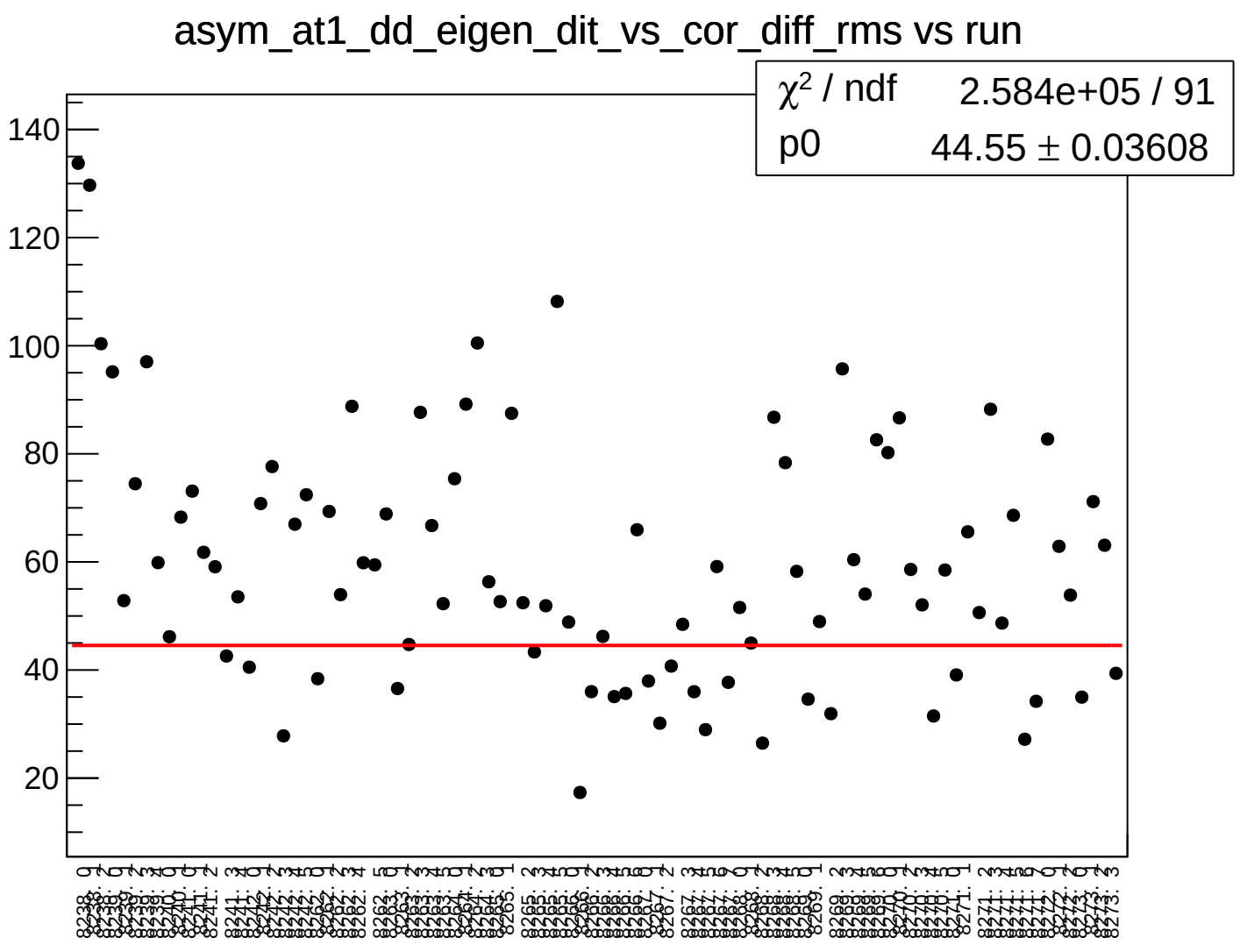

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.584e+05 / 91
p0 44.55 ± 0.03608
140
120
100
80
60
40
20

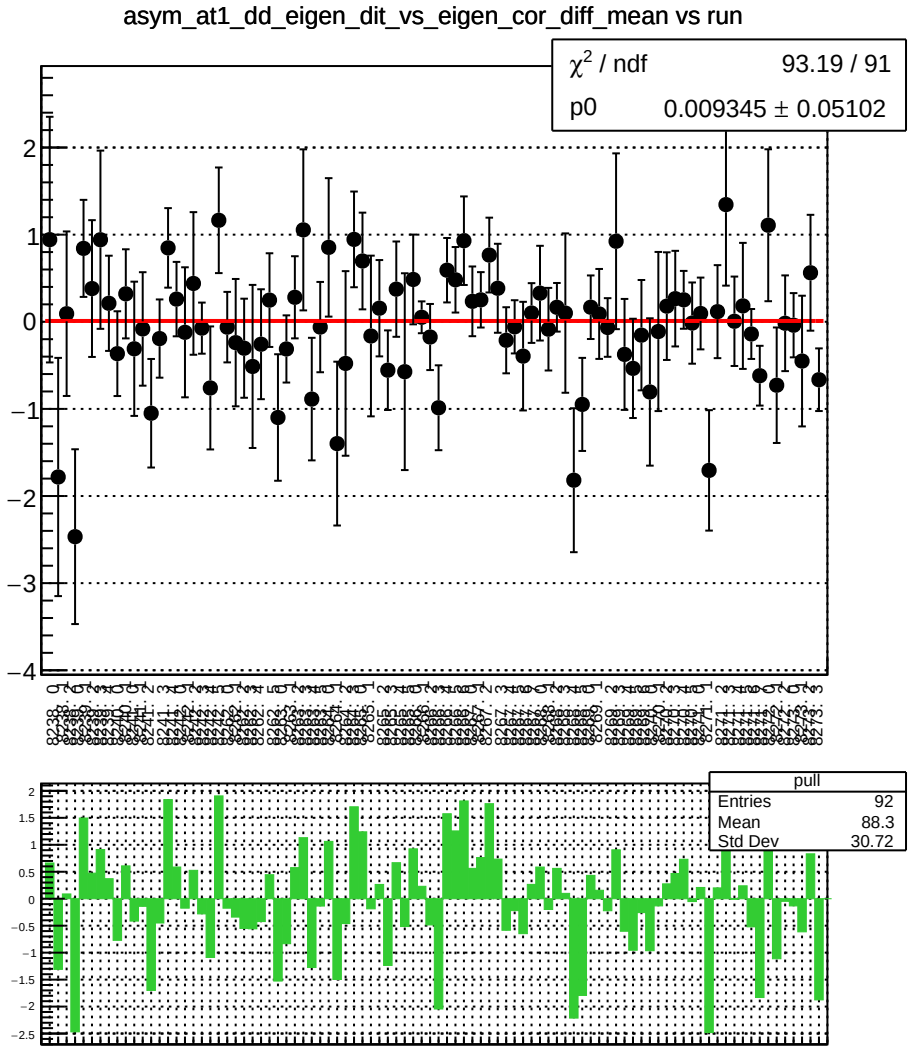

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 69.16 / 91
p0 −1.275e−05 ± 4.694e−06
pull
Entries 92
Mean −157.4
Std Dev 0

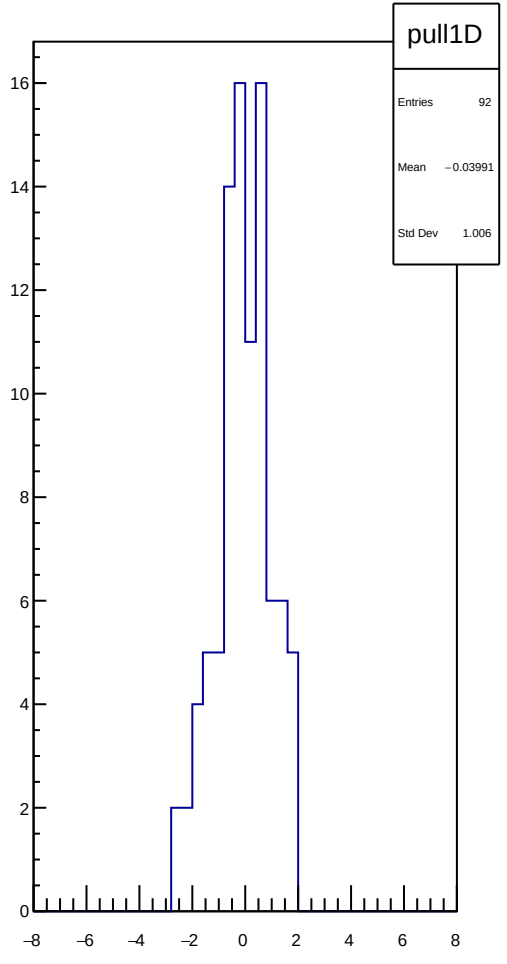

pull1D
Entries 92
Mean −0.02961
Std Dev 0.8665

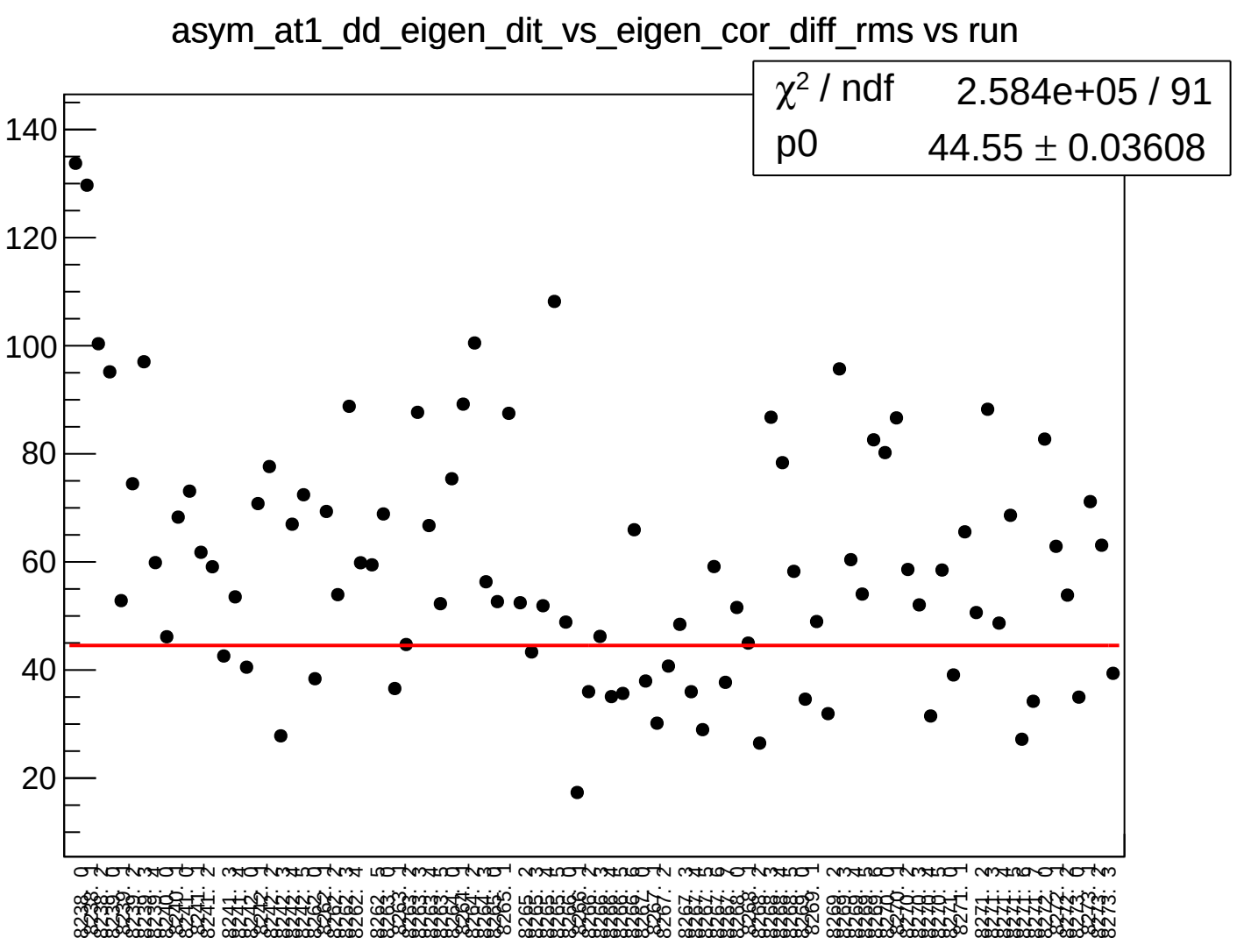

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.257e+04 / 91
p0 0.004366 ± 3.319e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

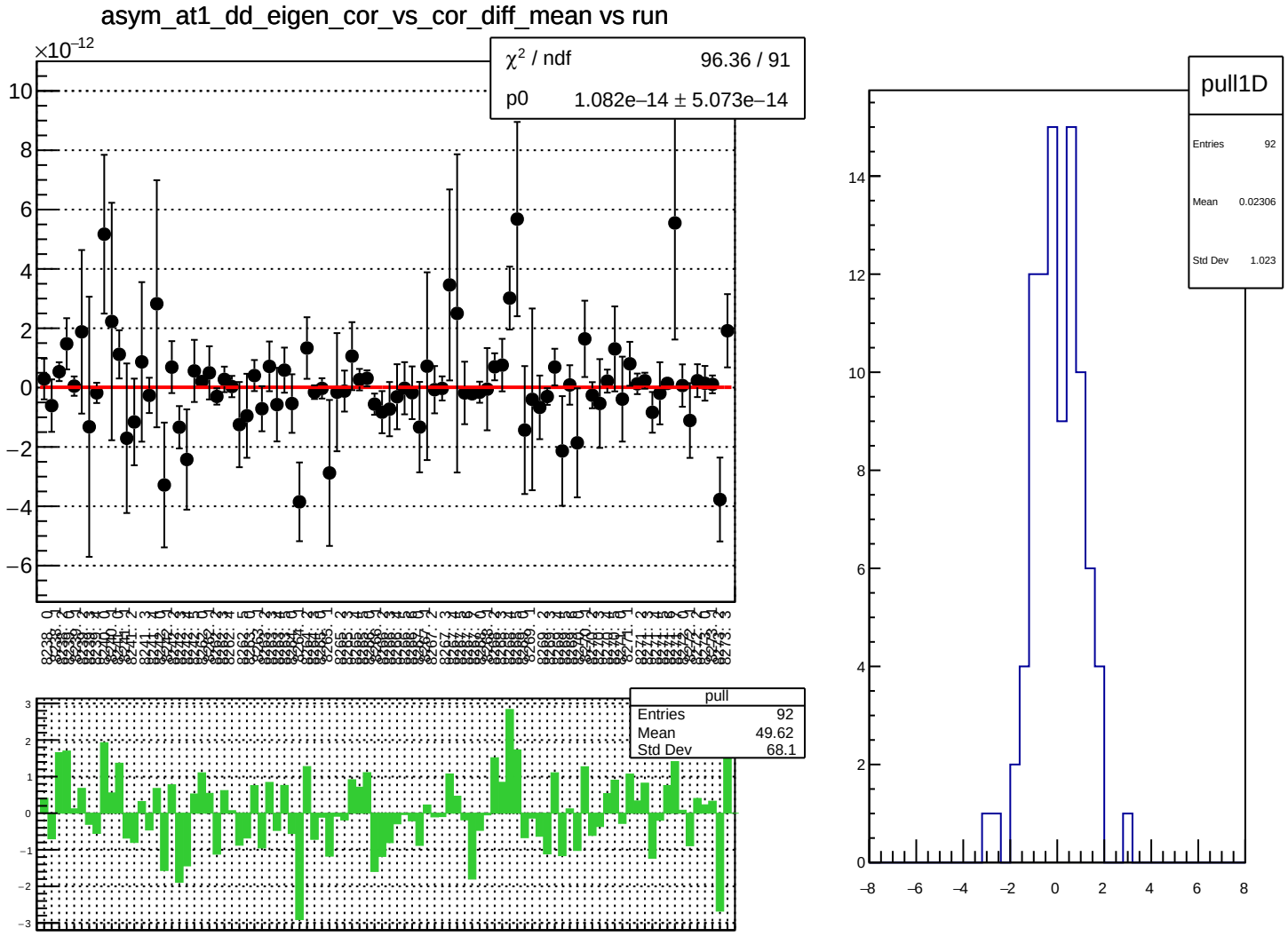

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.19 / 91
p0 0.009345 ± 0.05102
pull
Entries 92
Mean 88.3
Std Dev 30.72
pull1D
Entries 92
Mean −0.03991
Std Dev 1.006

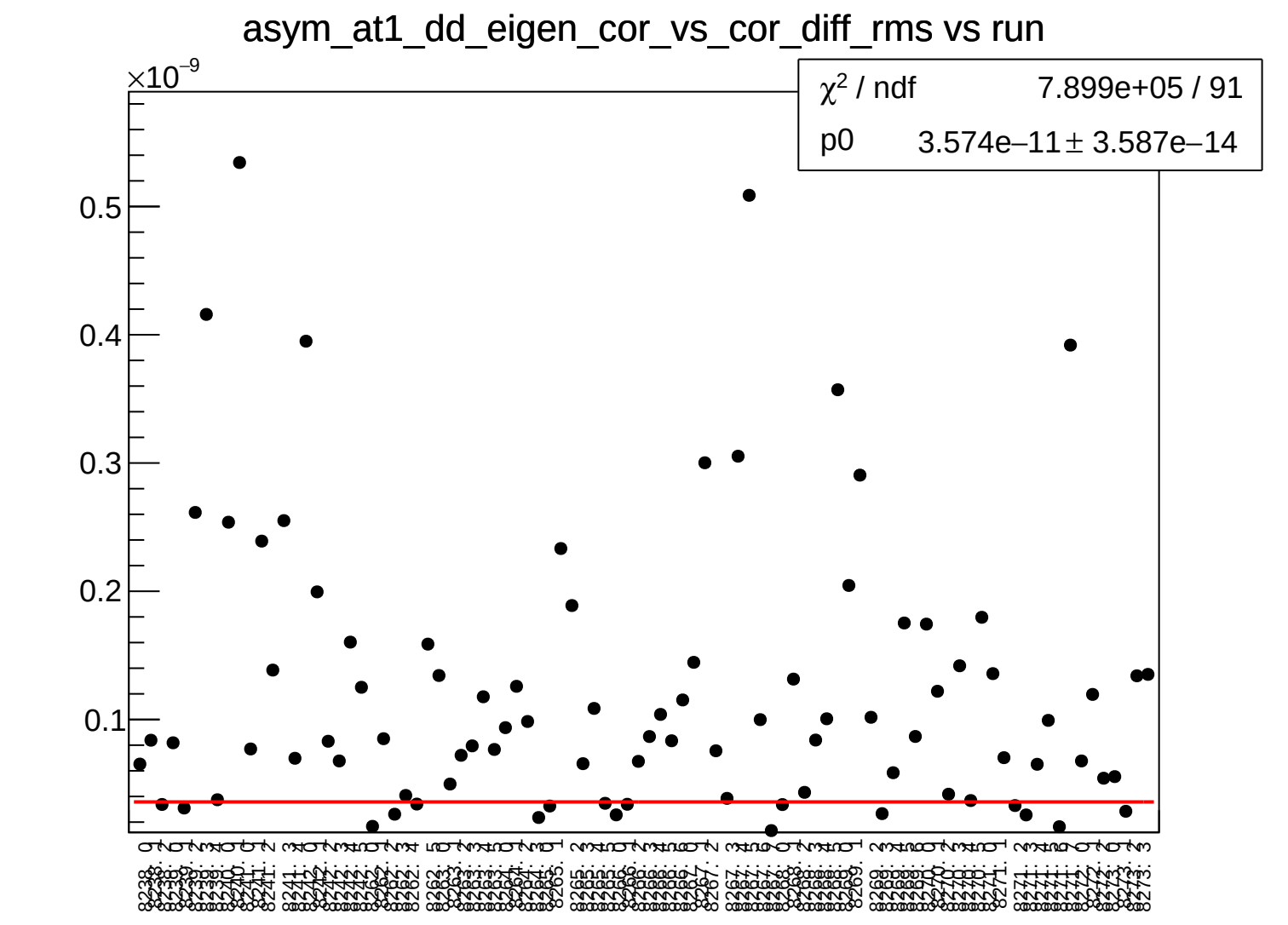

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.584e+05 / 91
p0 44.55 ± 0.03608
140
120
100
80
60
40
20

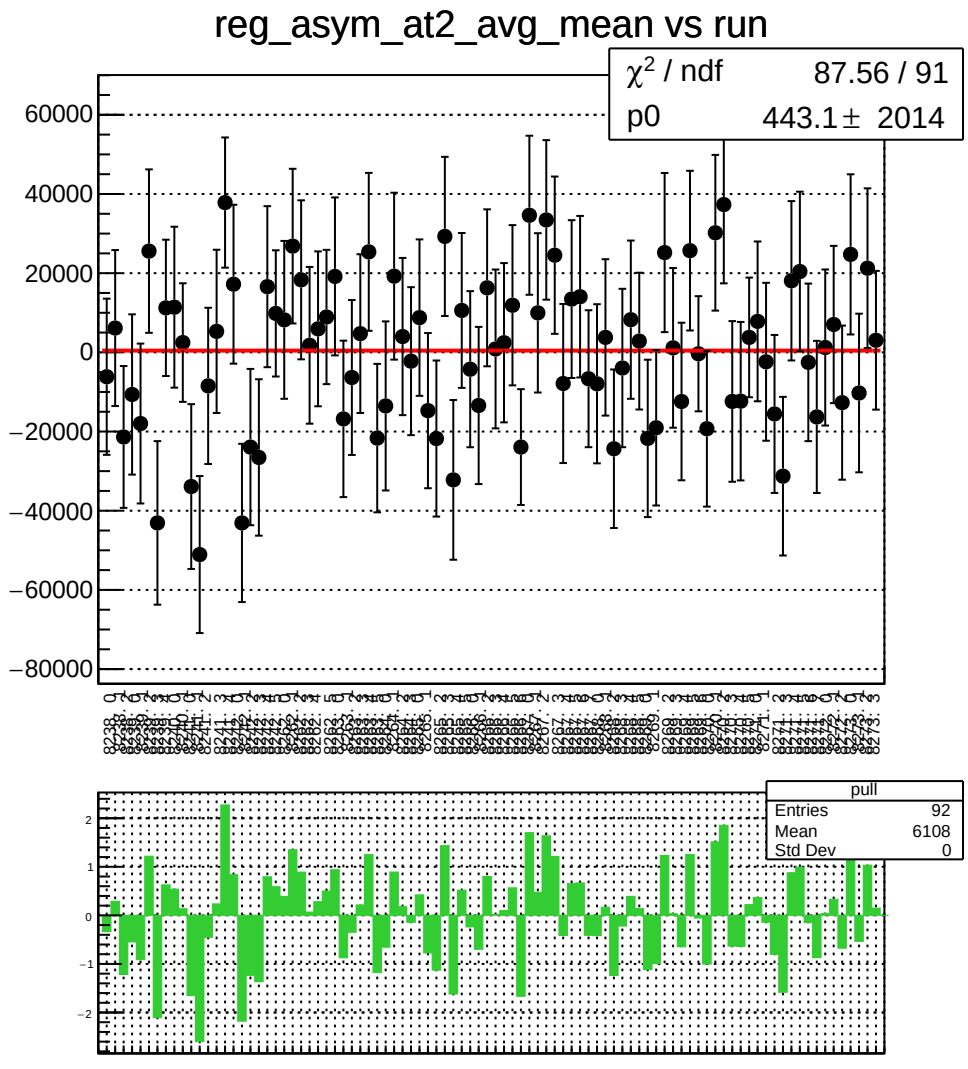

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.19 / 91
p0 0.009345 ± 0.05102
pull
Entries 92
Mean 88.3
Std Dev 30.72

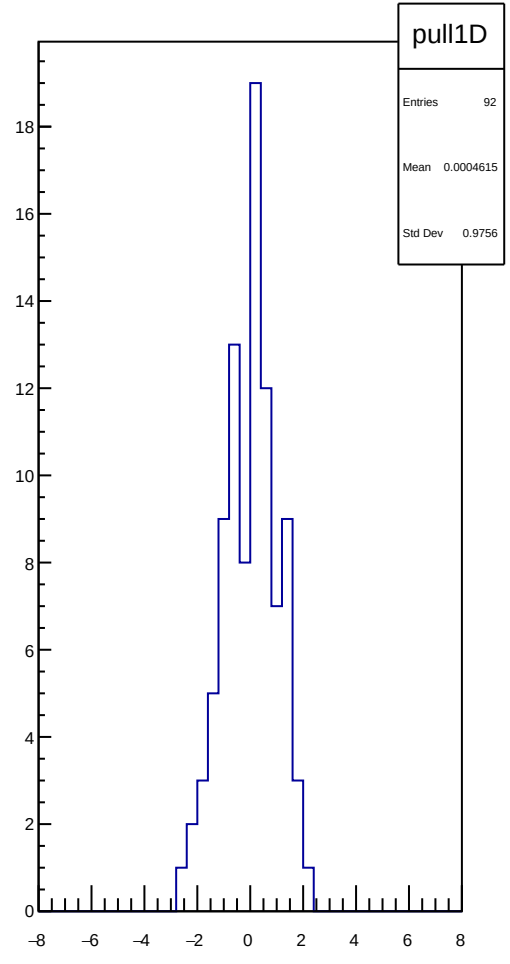

pull1D
Entries 92
Mean −0.03991
Std Dev 1.006

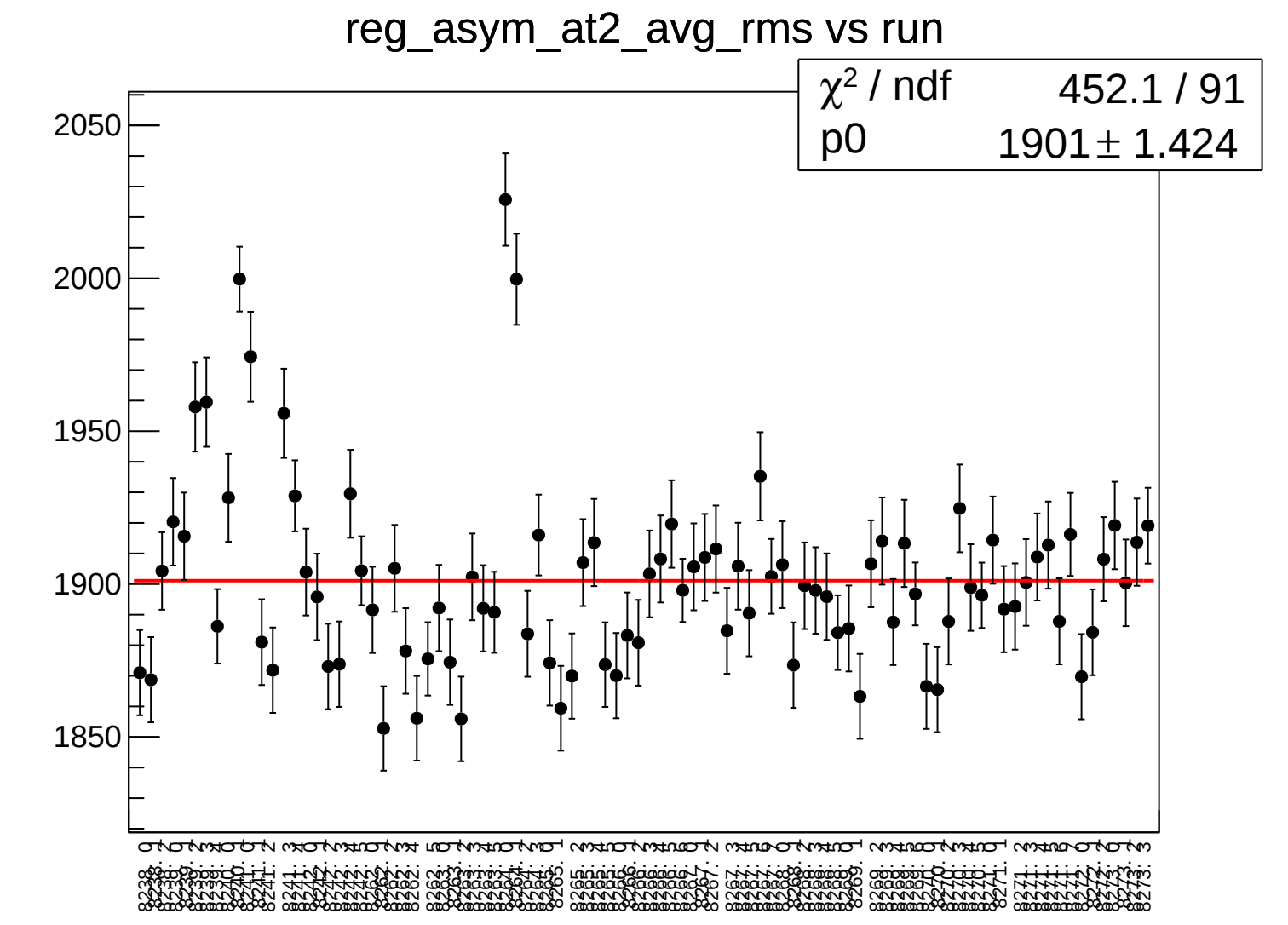

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.584e+05 / 91
p0 44.55 ± 0.03608
140
120
100
80
60
40
20

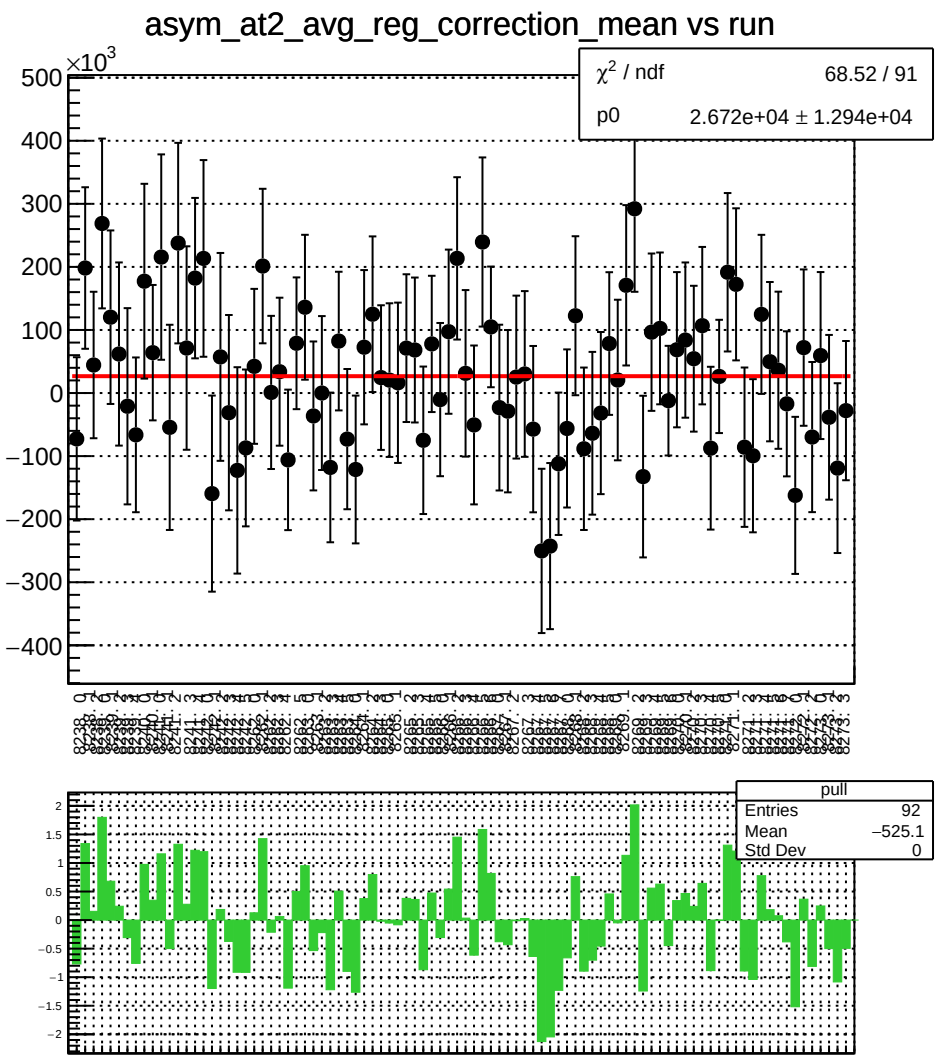

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.36 / 91
p0 1.082e−14 ± 5.073e−14
pull
Entries 92
Mean 49.62
Std Dev 68.1
pull1D
Entries 92
Mean 0.02306
Std Dev 1.023

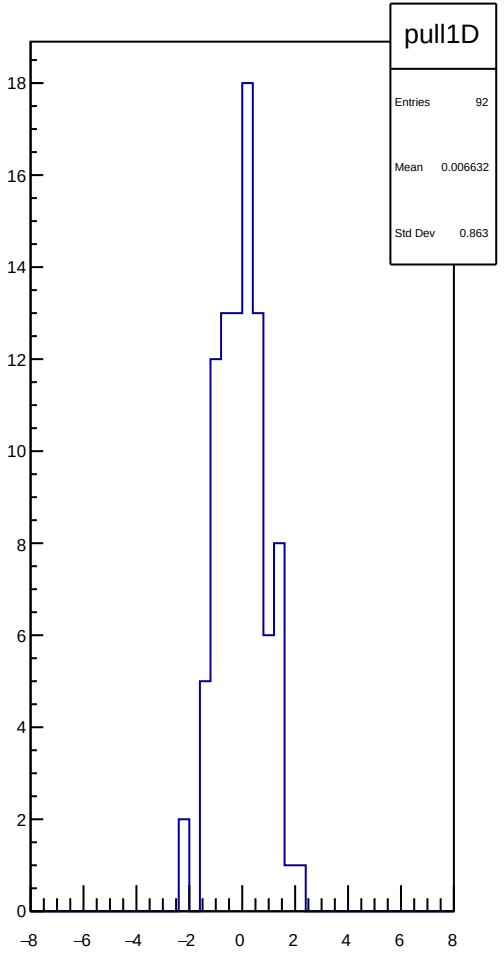

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.899e+05 / 91
p0 3.574e−11 ± 3.587e−14
0.5
0.4
0.3
0.2
0.1

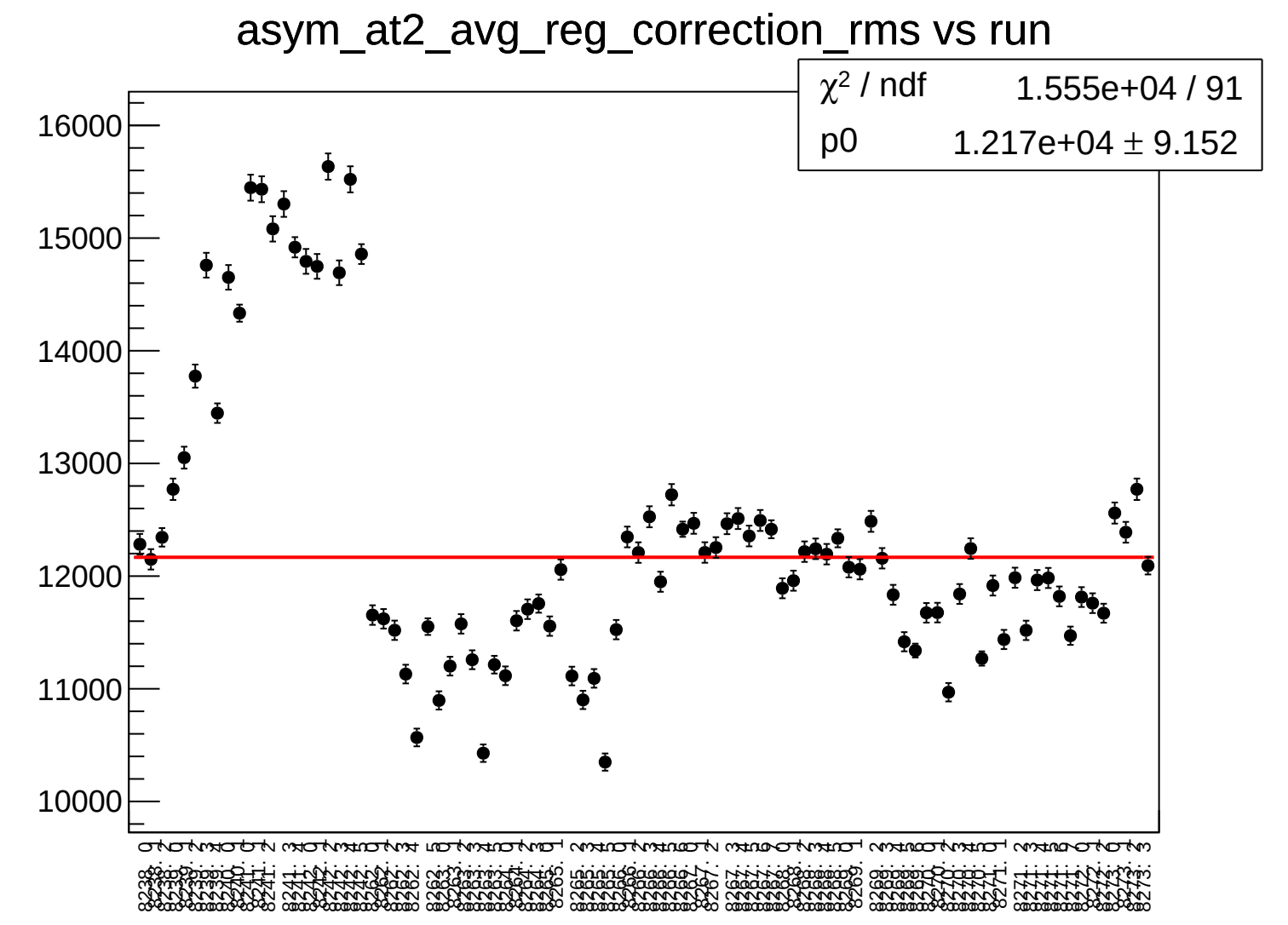

reg_asym_at2_avg_mean vs run
χ² / ndf 87.56 / 91
p0 443.1 ± 2014
pull
Entries 92
Mean 6108
Std Dev 0

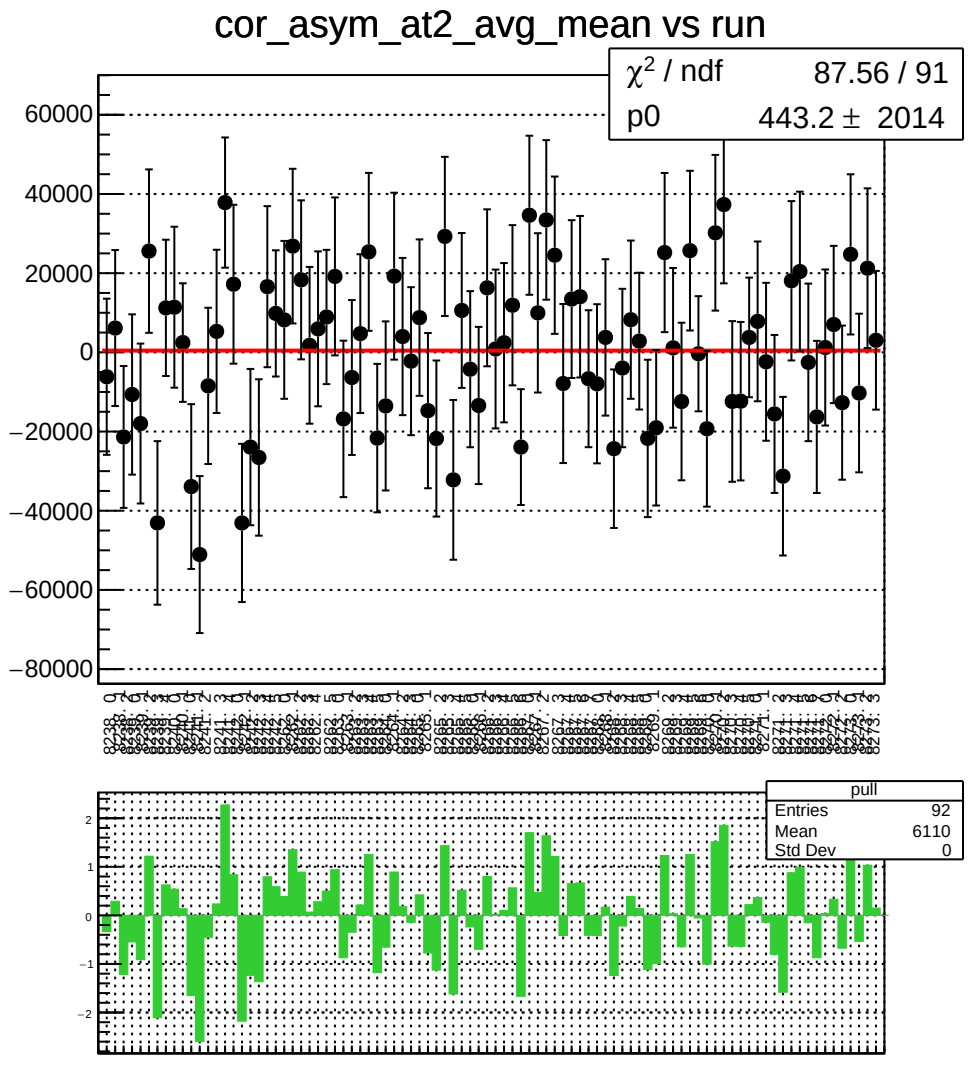

pull1D
Entries 92
Mean 0.0004615
Std Dev 0.9756

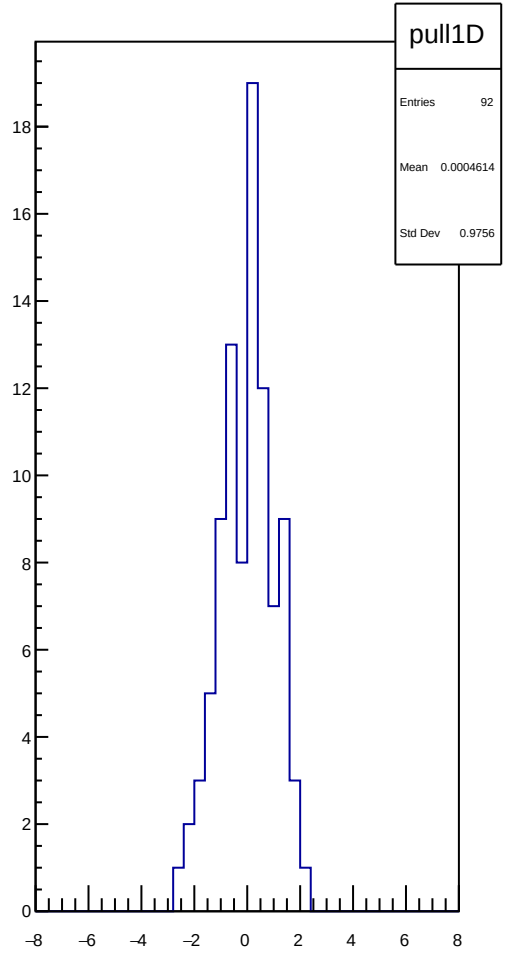

reg_asym_at2_avg_rms vs run
$\chi^2$ / ndf 452.1 / 91
p0 1901 ± 1.424
2050
2000
1950
1900
1850

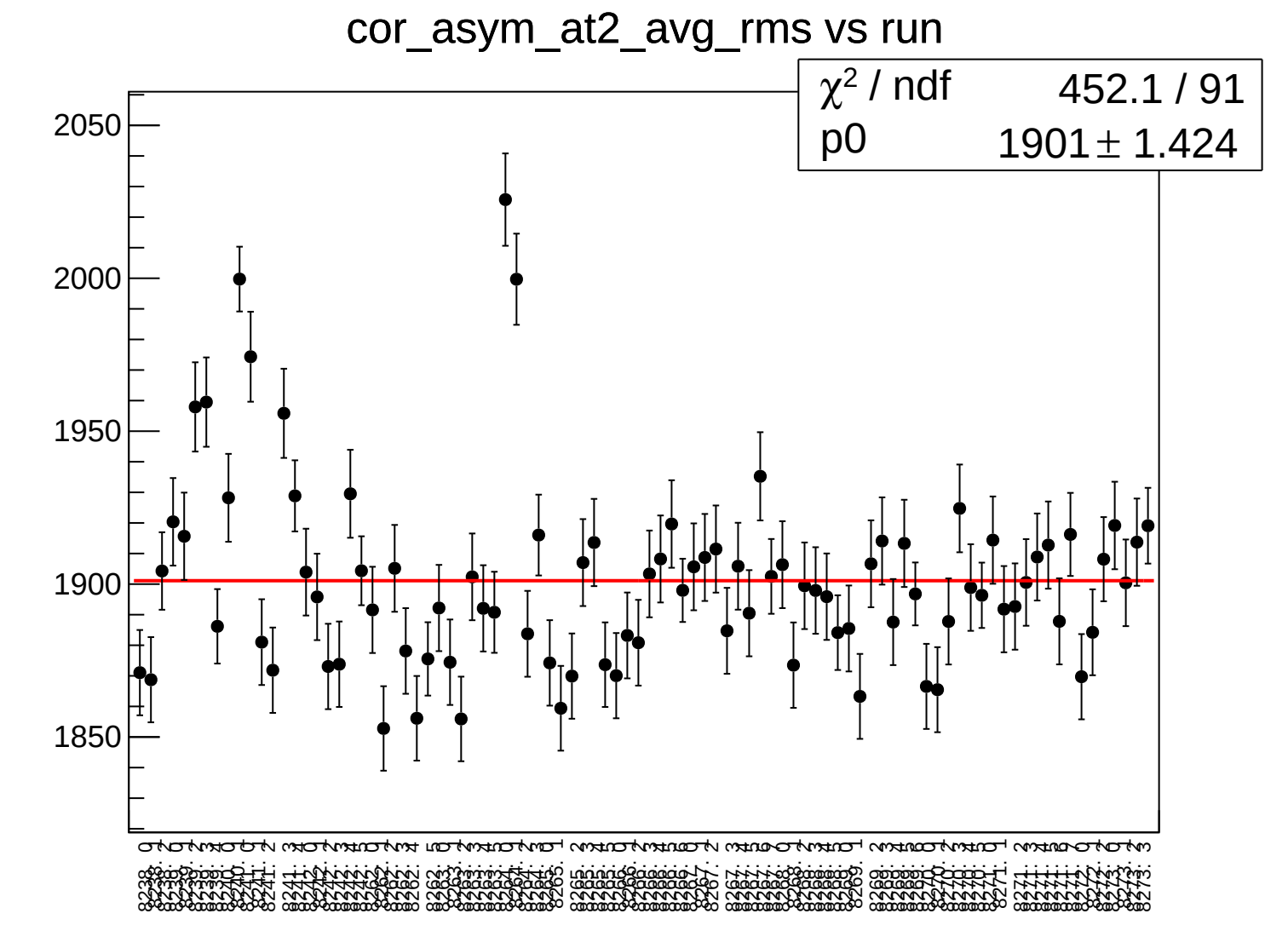

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 68.52 / 91
p0 2.672e+04 ± 1.294e+04
pull
Entries 92
Mean −525.1
Std Dev 0

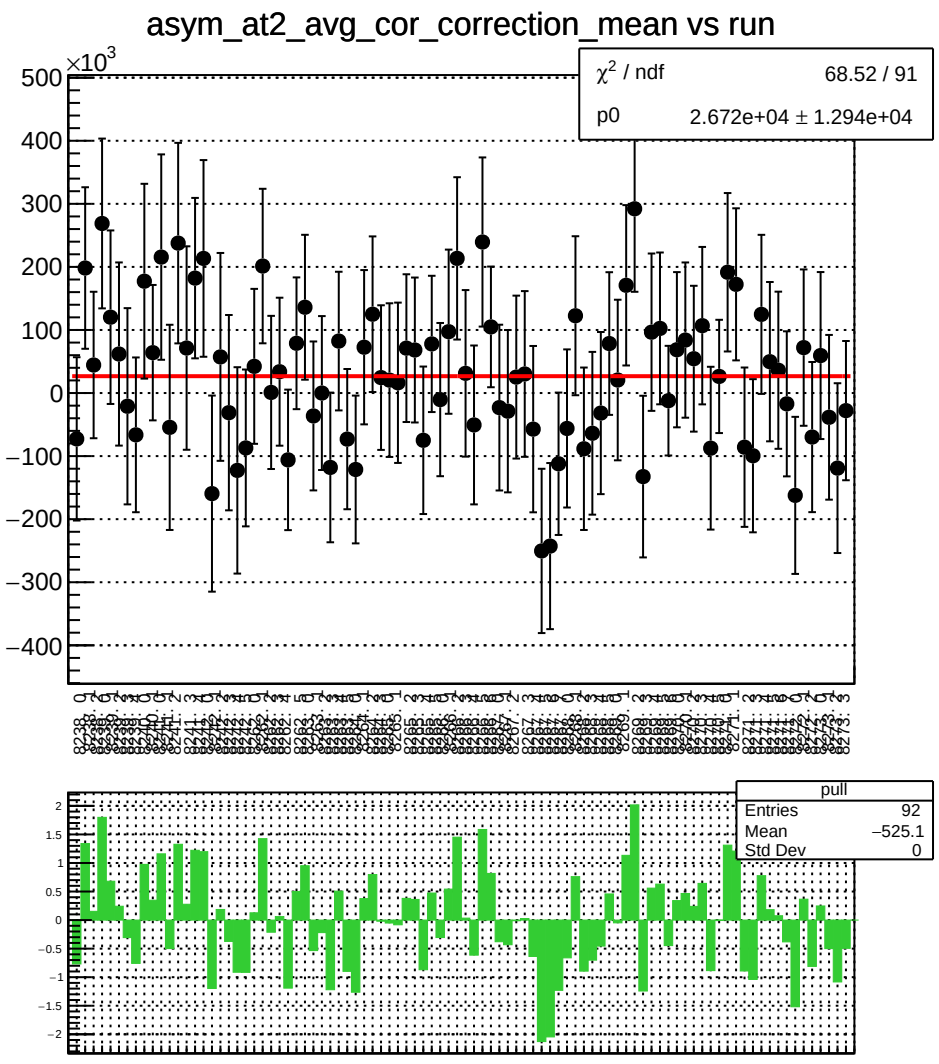

pull1D
Entries 92
Mean 0.006632
Std Dev 0.863

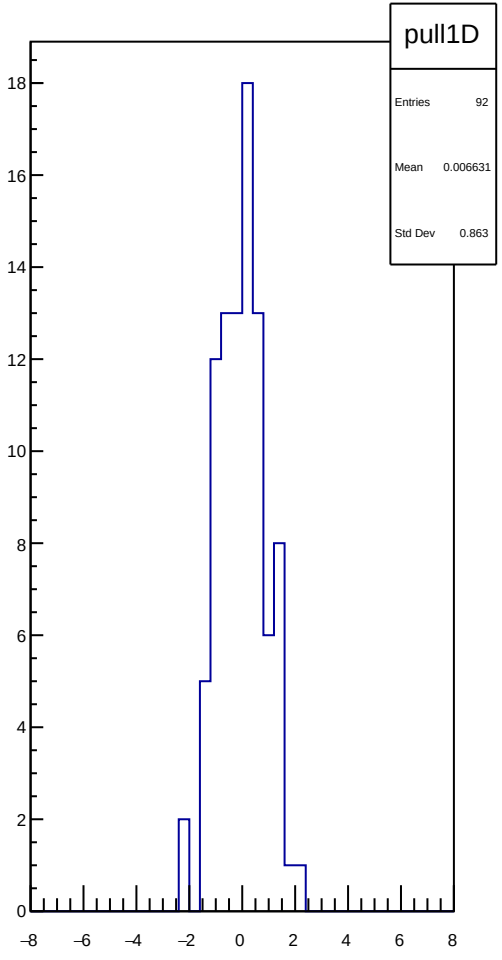

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 1.555e+04 / 91
p0 1.217e+04 ± 9.152
16000
15000
14000
13000
12000
11000
10000

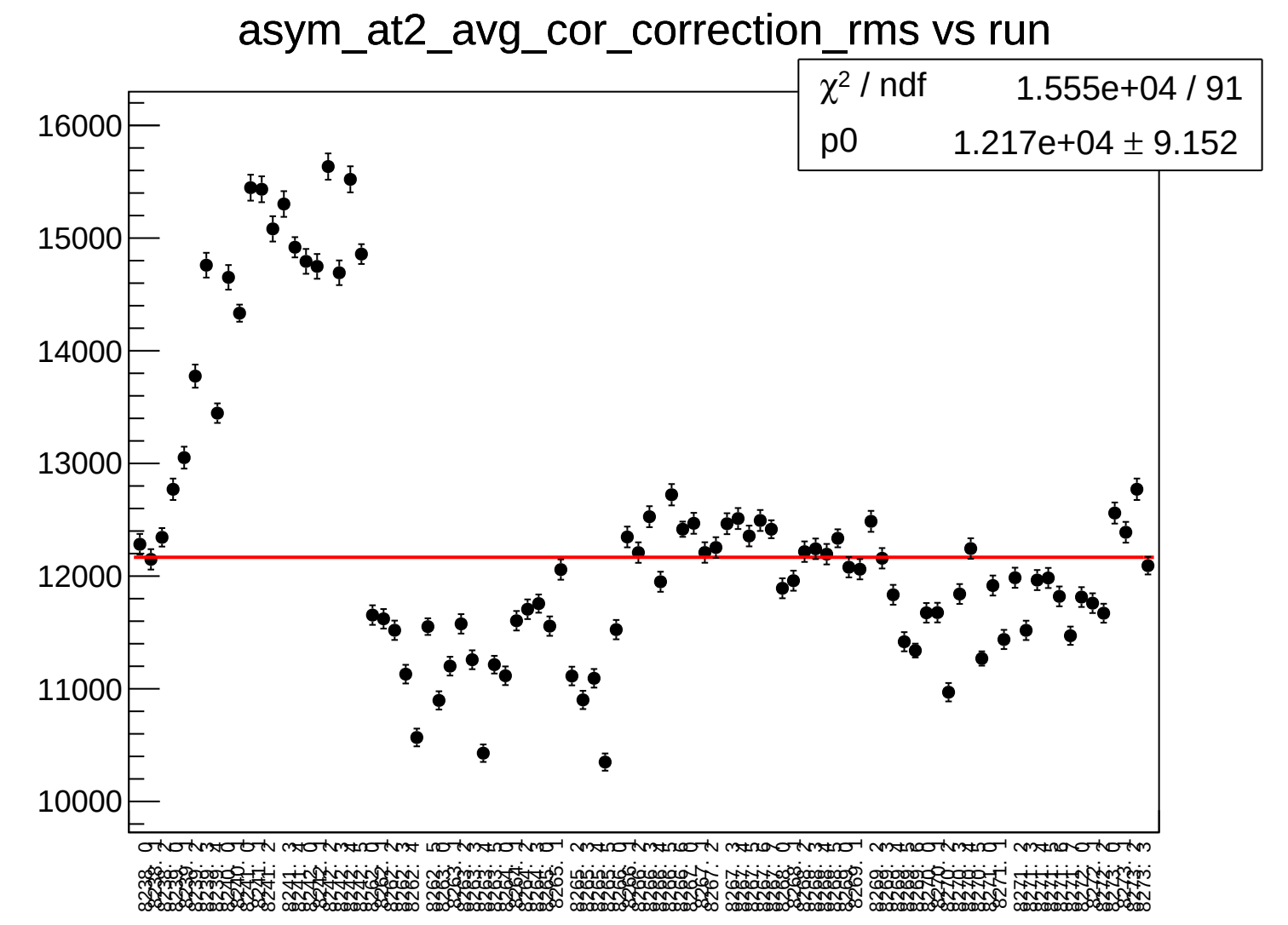

cor_asym_at2_avg_mean vs run
χ² / ndf 87.56 / 91
p0 443.2 ± 2014
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 6110
Std Dev 0
2
1
0
−1
−2

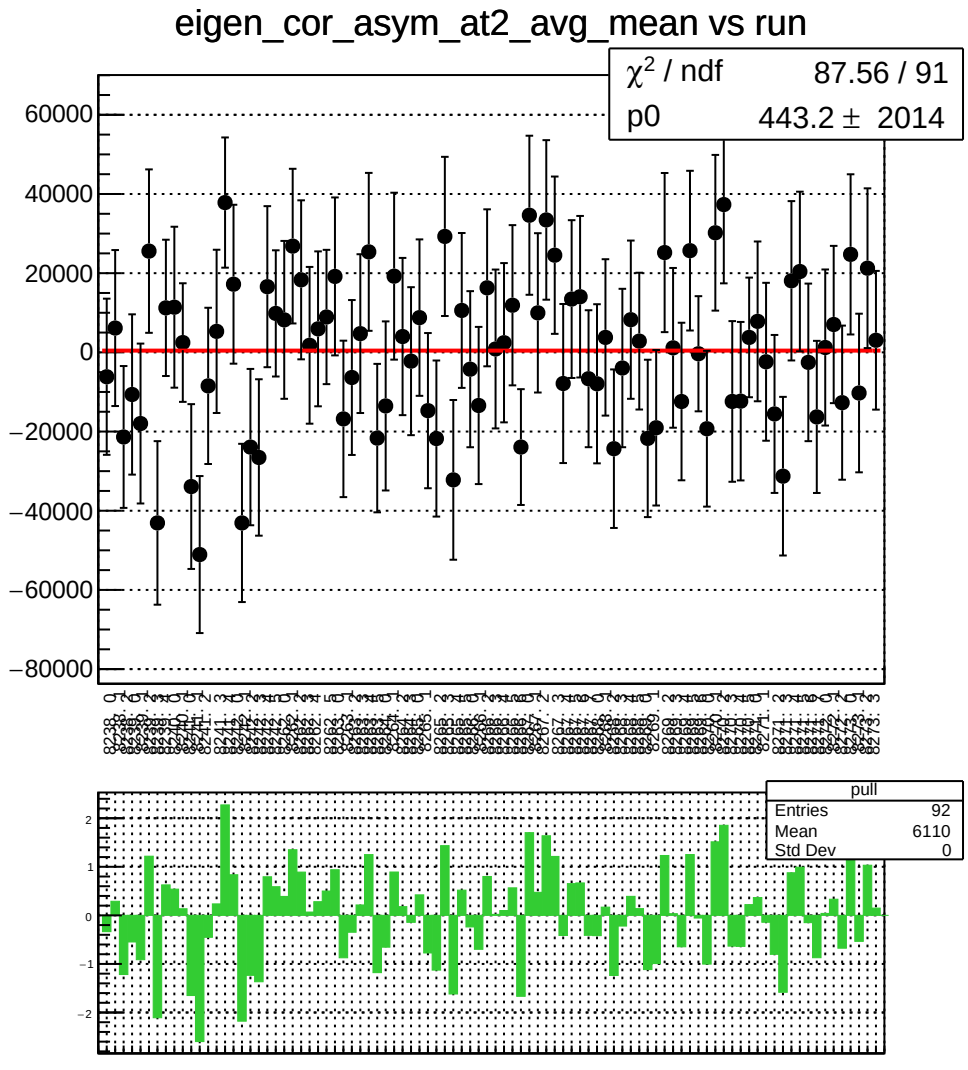

pull1D
Entries 92
Mean 0.0004614
Std Dev 0.9756
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

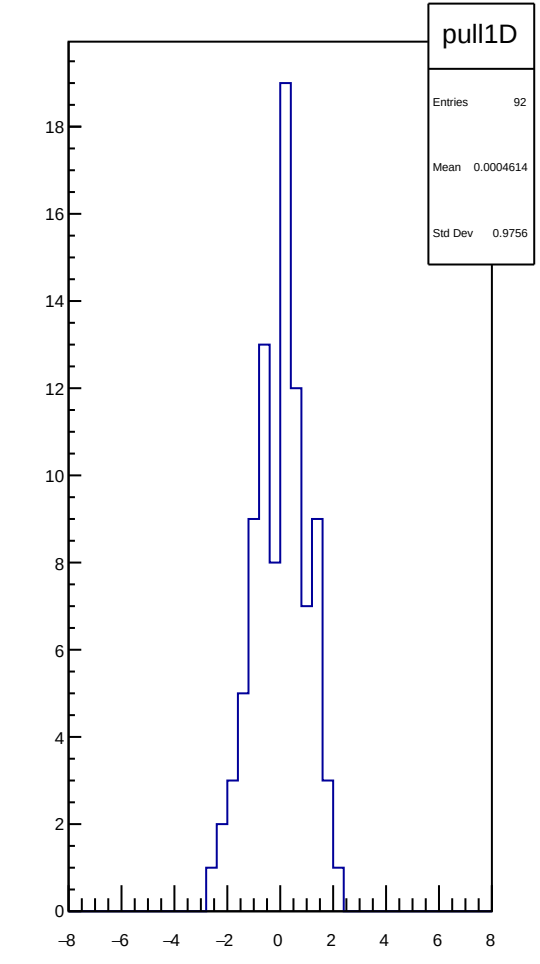

cor_asym_at2_avg_rms vs run
χ² / ndf 452.1 / 91
p0 1901 ± 1.424
2050
2000
1950
1900
1850

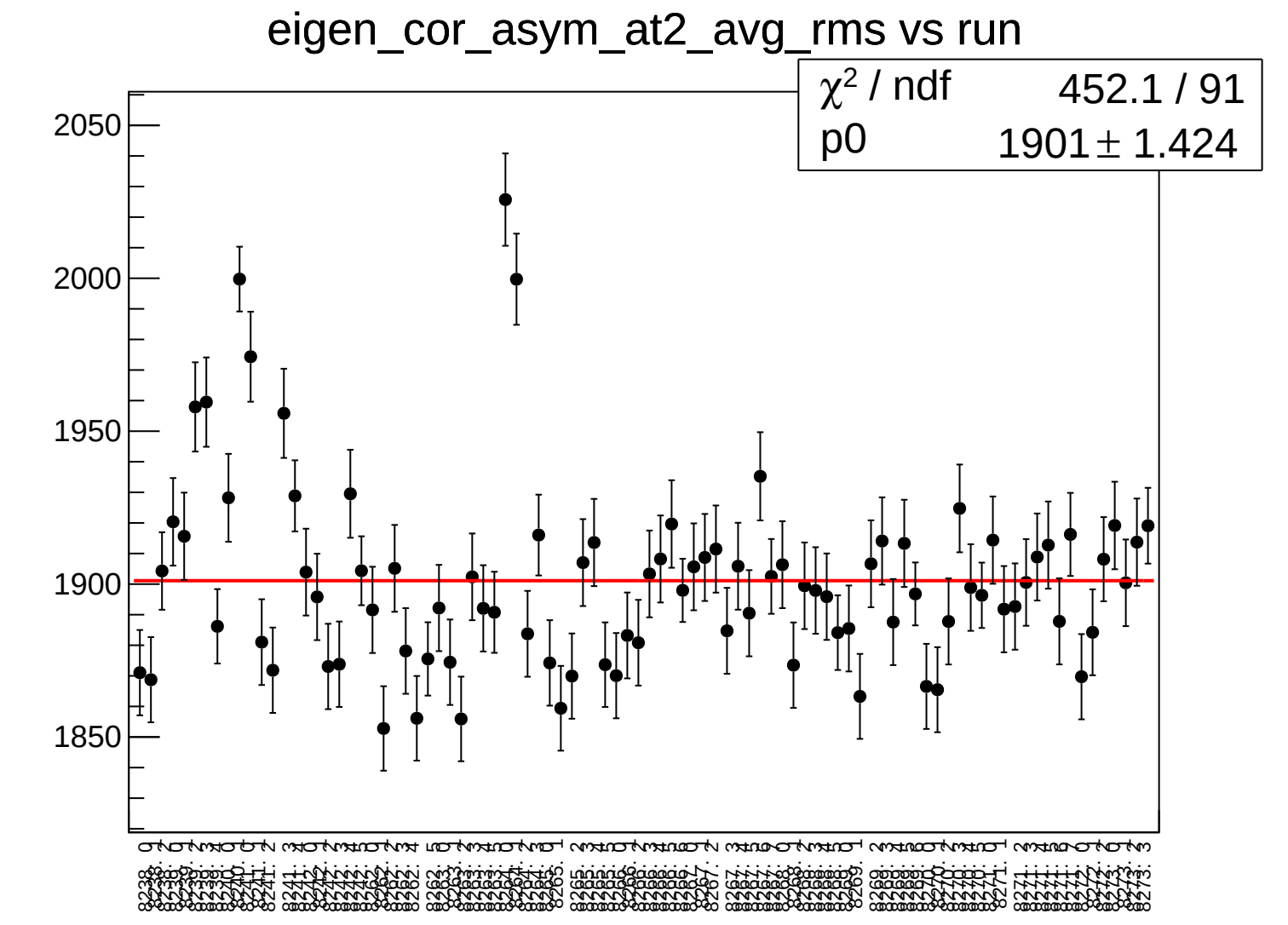

asym_at2_avg_cor_correction_mean vs run
χ² / ndf 68.52 / 91
p0 2.672e+04 ± 1.294e+04
×10³
pull
Entries 92
Mean −525.1
Std Dev 0

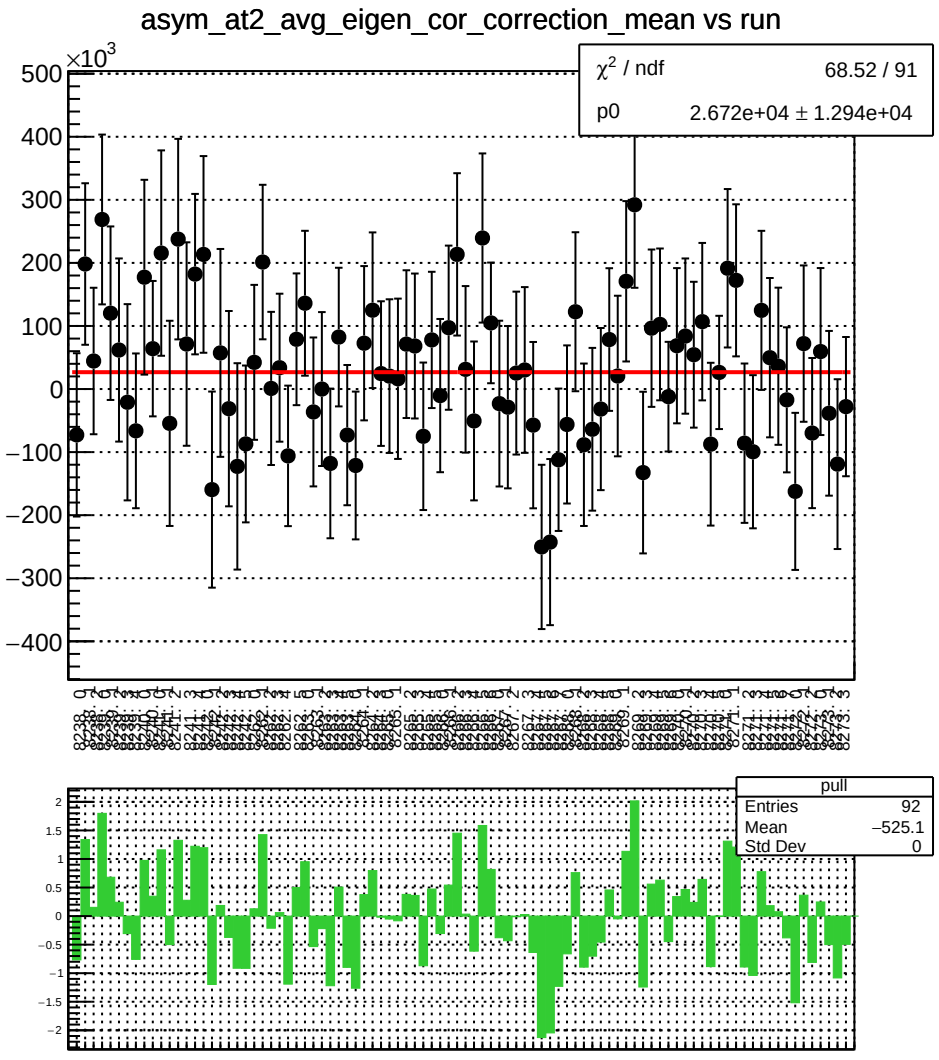

pull1D
Entries 92
Mean 0.006631
Std Dev 0.863

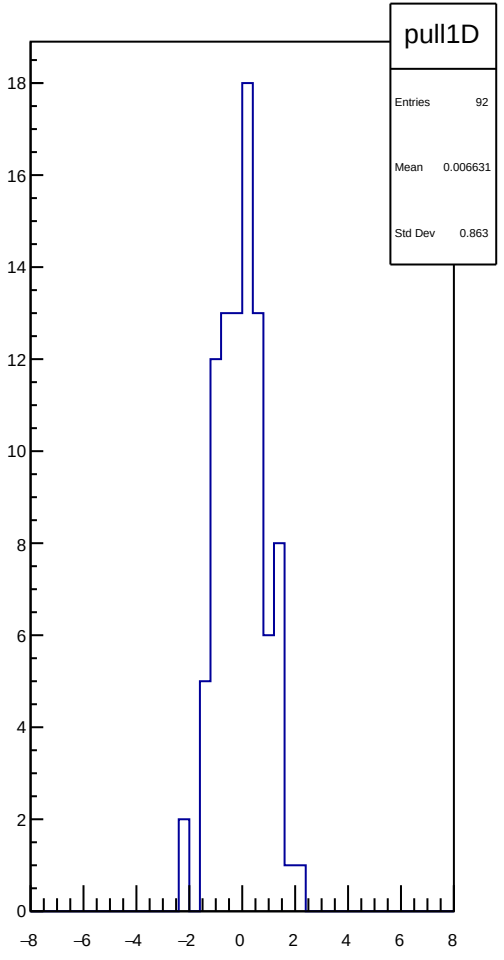

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 1.555e+04 / 91
p0 1.217e+04 ± 9.152
16000
15000
14000
13000
12000
11000
10000

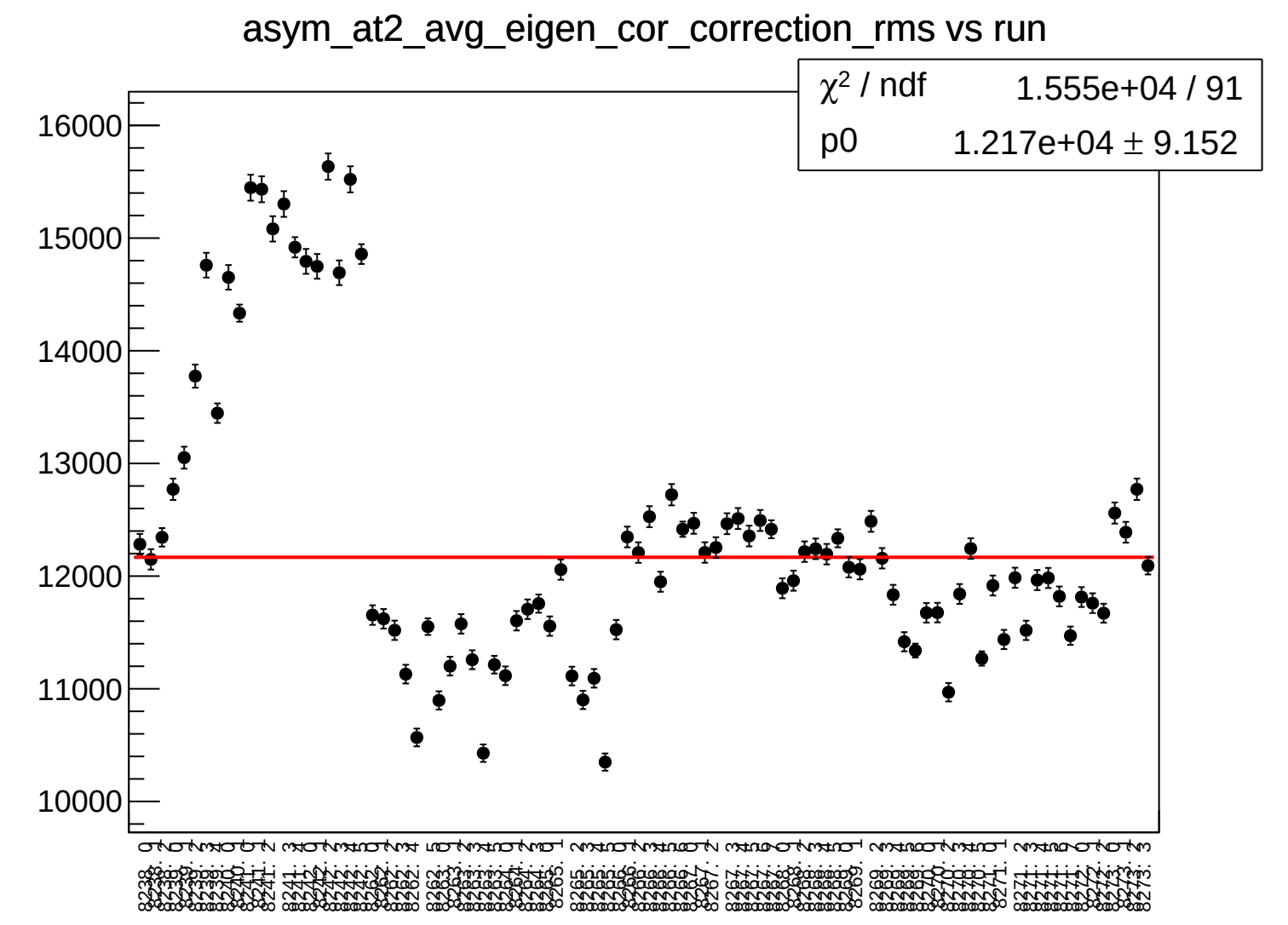

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 87.56 / 91
p0 443.2 ± 2014
pull
Entries 92
Mean 6110
Std Dev 0

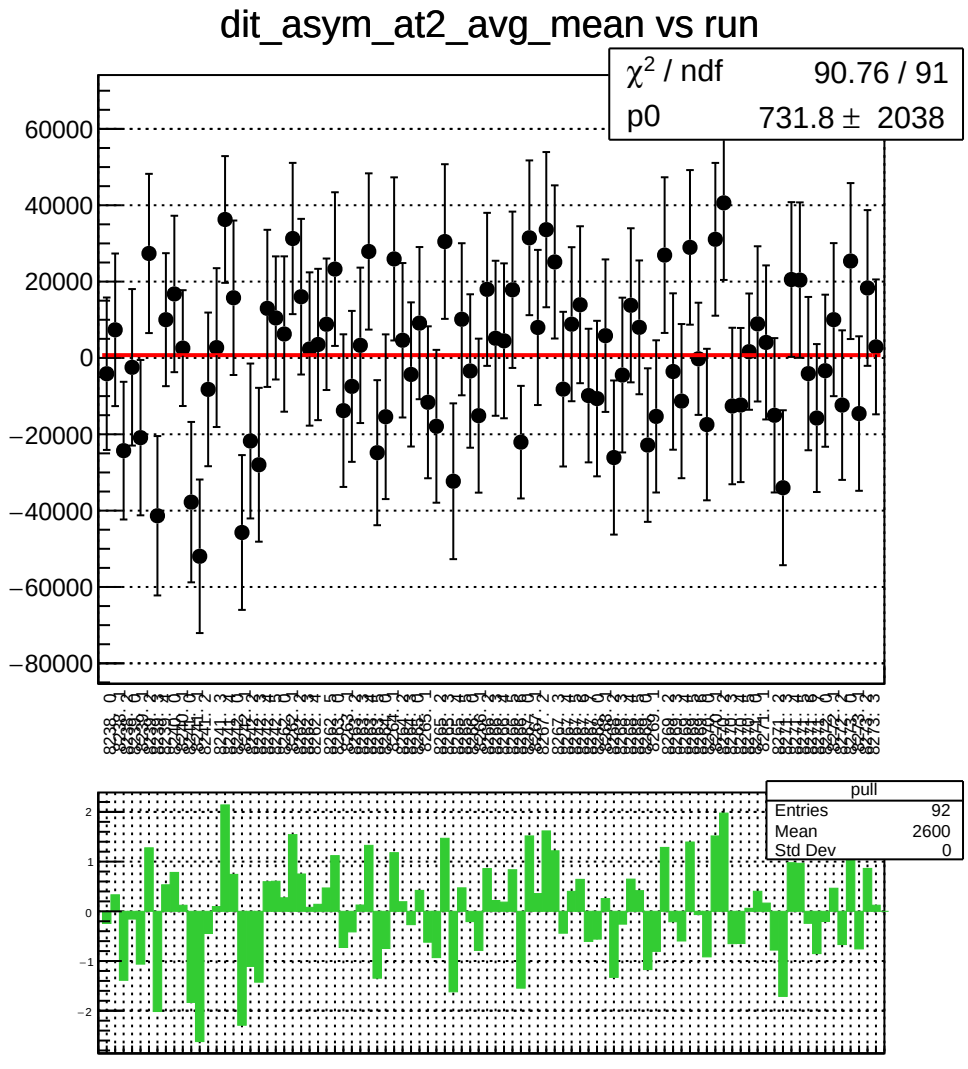

pull1D
Entries 92
Mean 0.0004614
Std Dev 0.9756

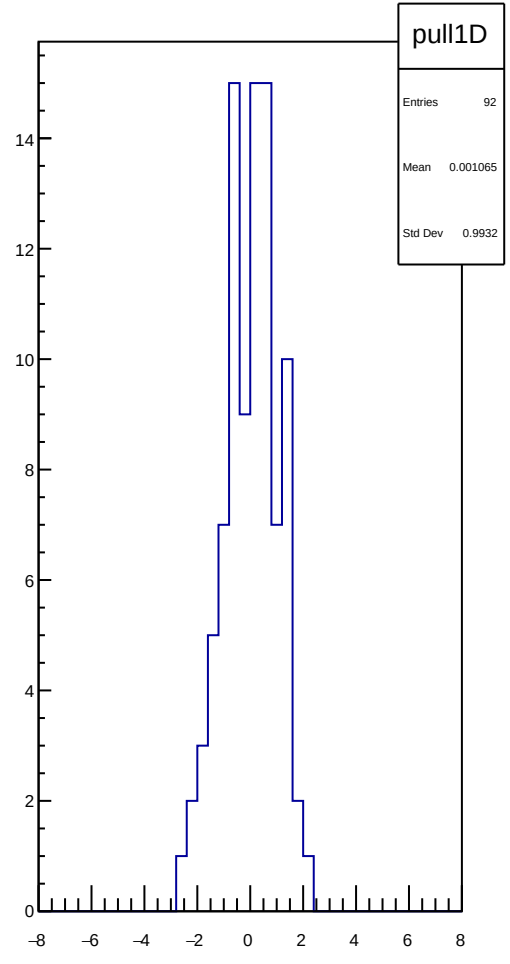

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 452.1 / 91
p0 1901 ± 1.424
2050
2000
1950
1900
1850

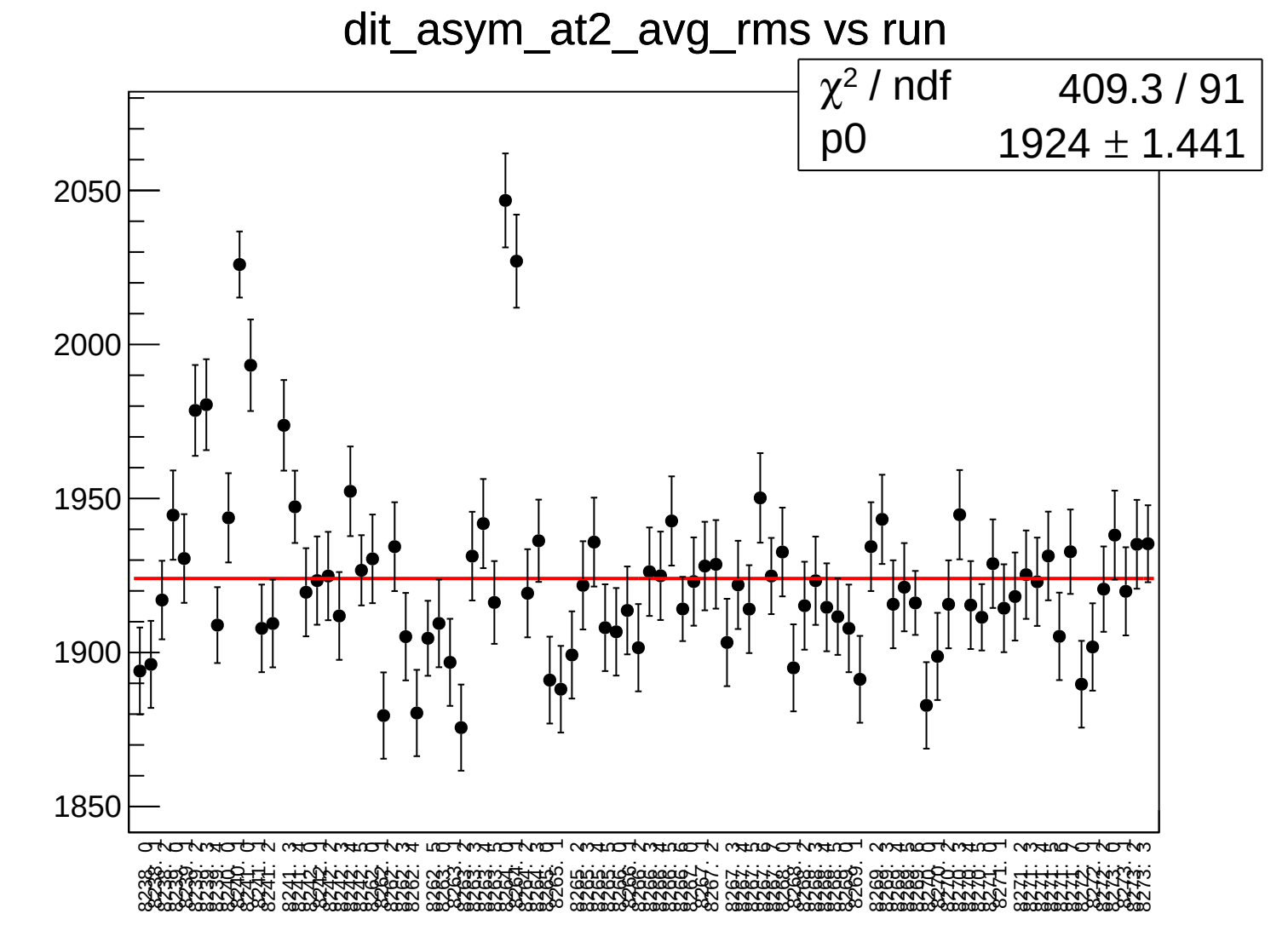

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 68.52 / 91
p0 2.672e+04 ± 1.294e+04
pull
Entries 92
Mean −525.1
Std Dev 0

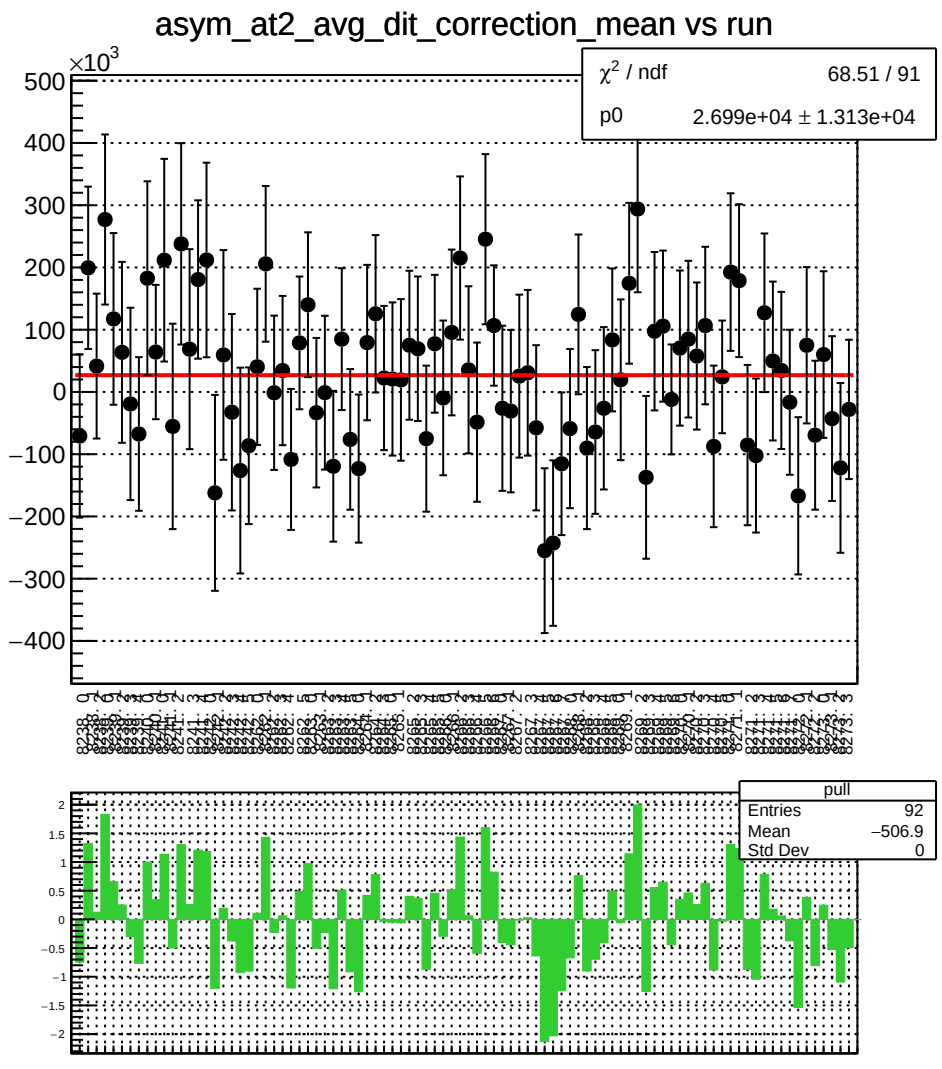

pull1D
Entries 92
Mean 0.006631
Std Dev 0.863

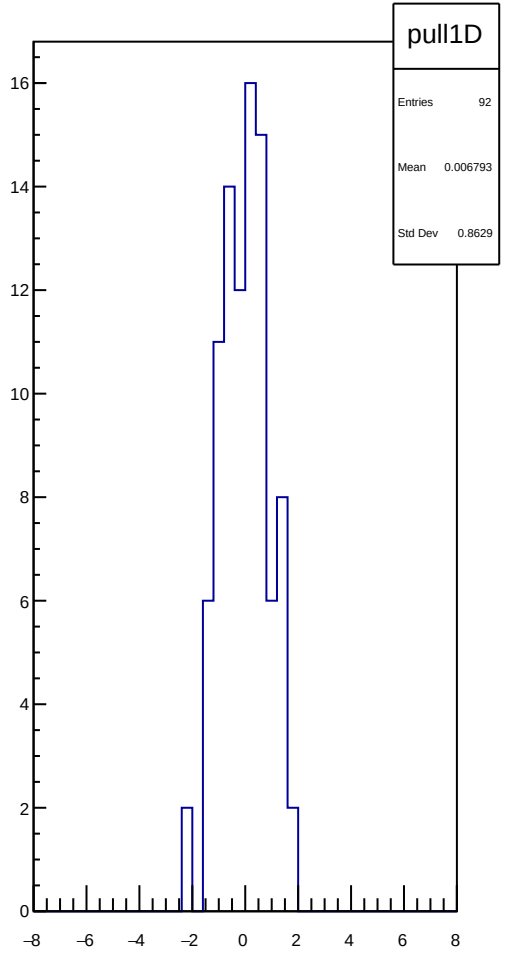

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.555e+04 / 91
p0 1.217e+04 ± 9.152
16000
15000
14000
13000
12000
11000
10000

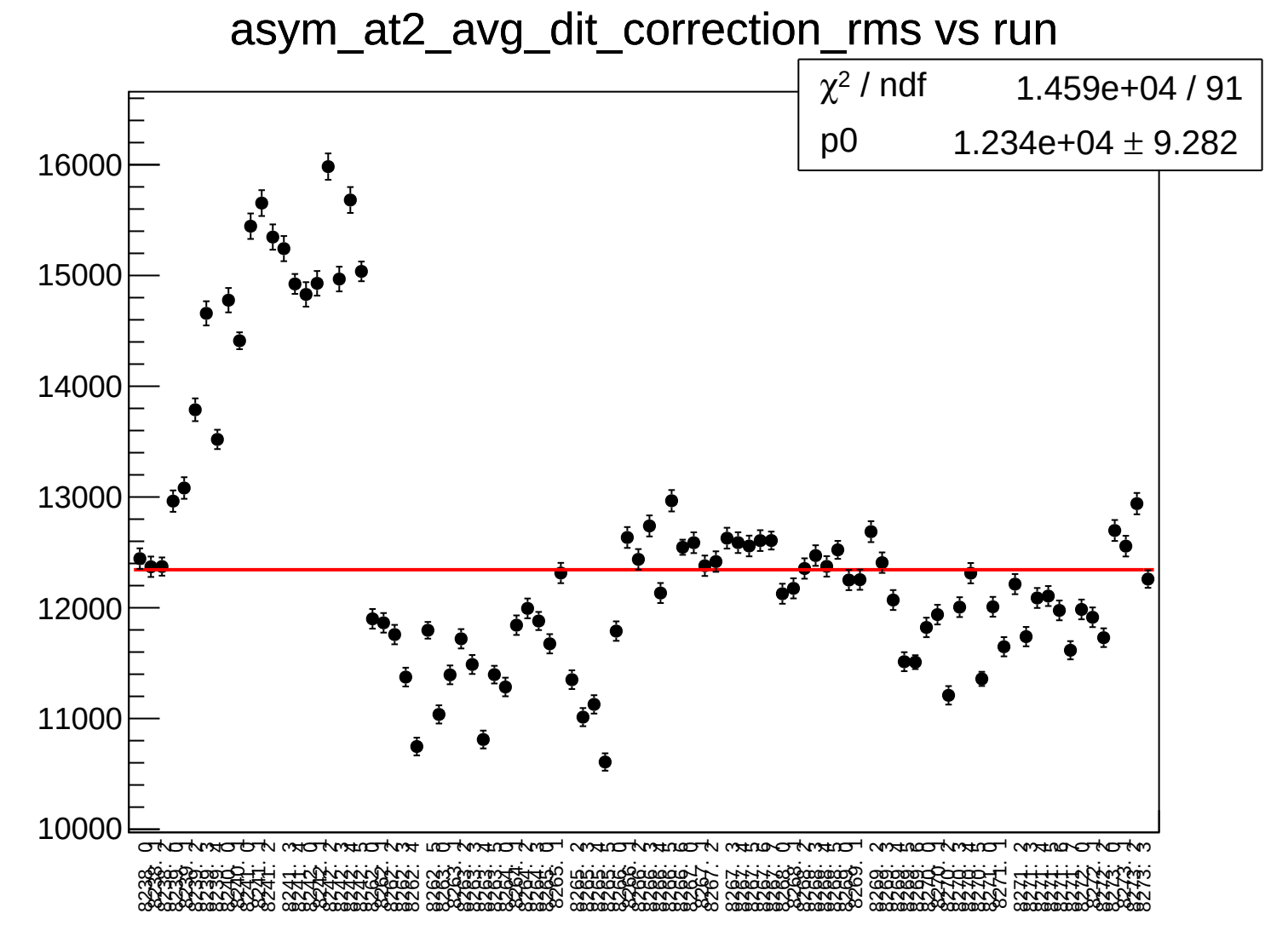

dit_asym_at2_avg_mean vs run
χ² / ndf 90.76 / 91
p0 731.8 ± 2038
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 2600
Std Dev 0
2
1
0
−1
−2

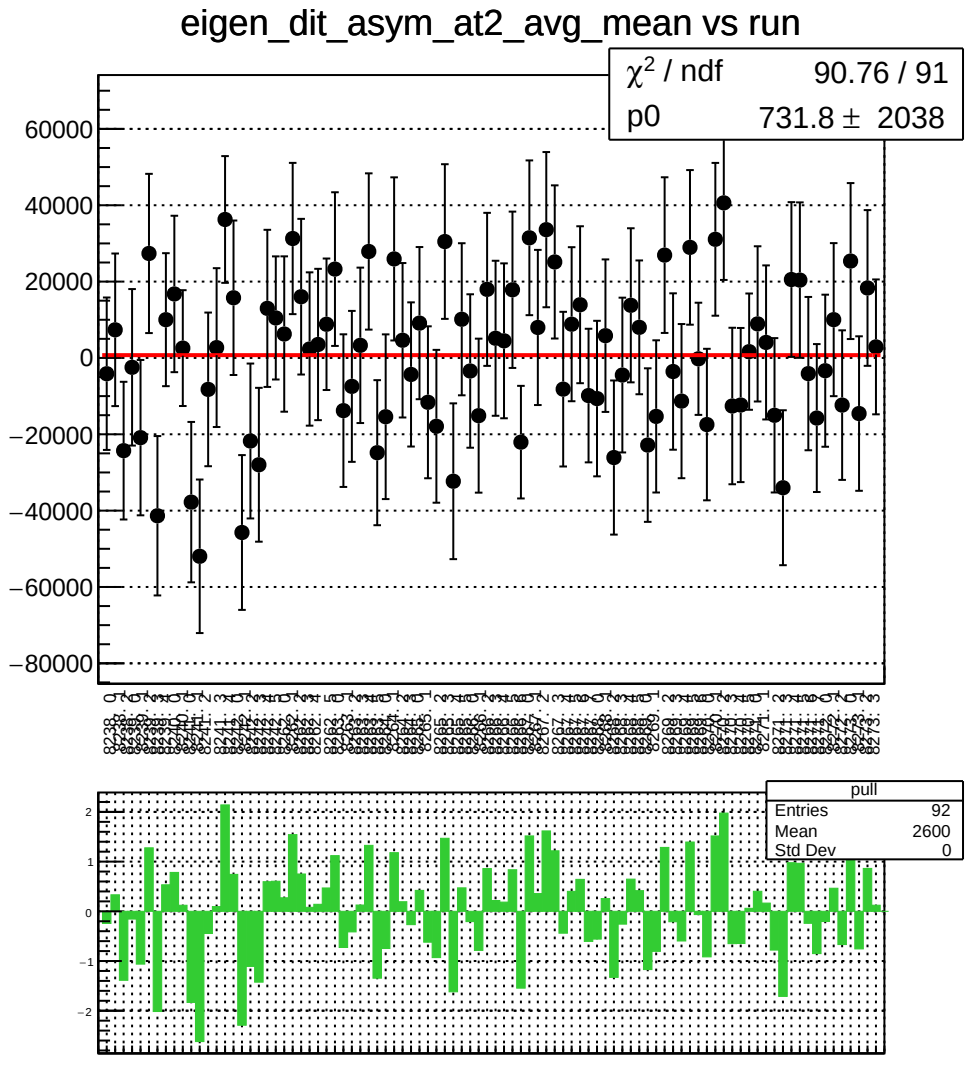

pull1D
Entries 92
Mean 0.001065
Std Dev 0.9932
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

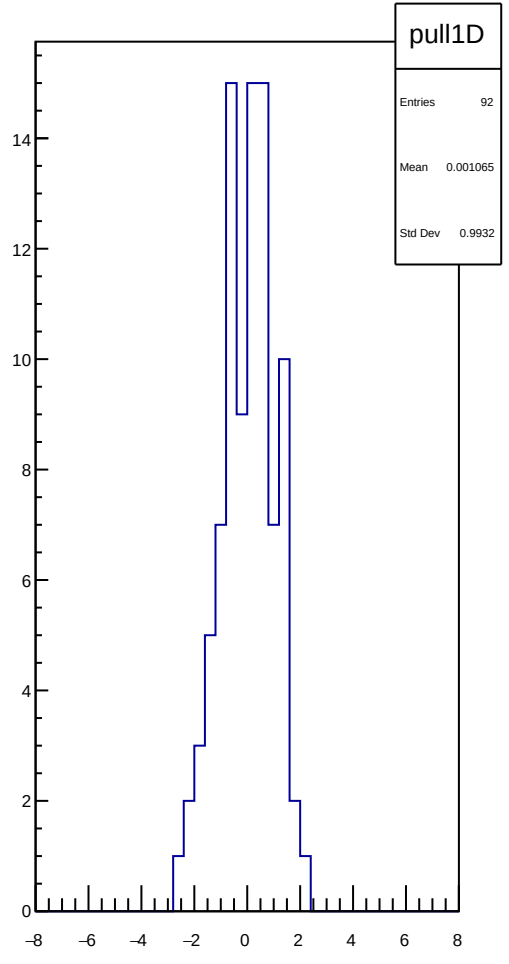

dit_asym_at2_avg_rms vs run
χ² / ndf 409.3 / 91
p0 1924 ± 1.441
2050
2000
1950
1900
1850

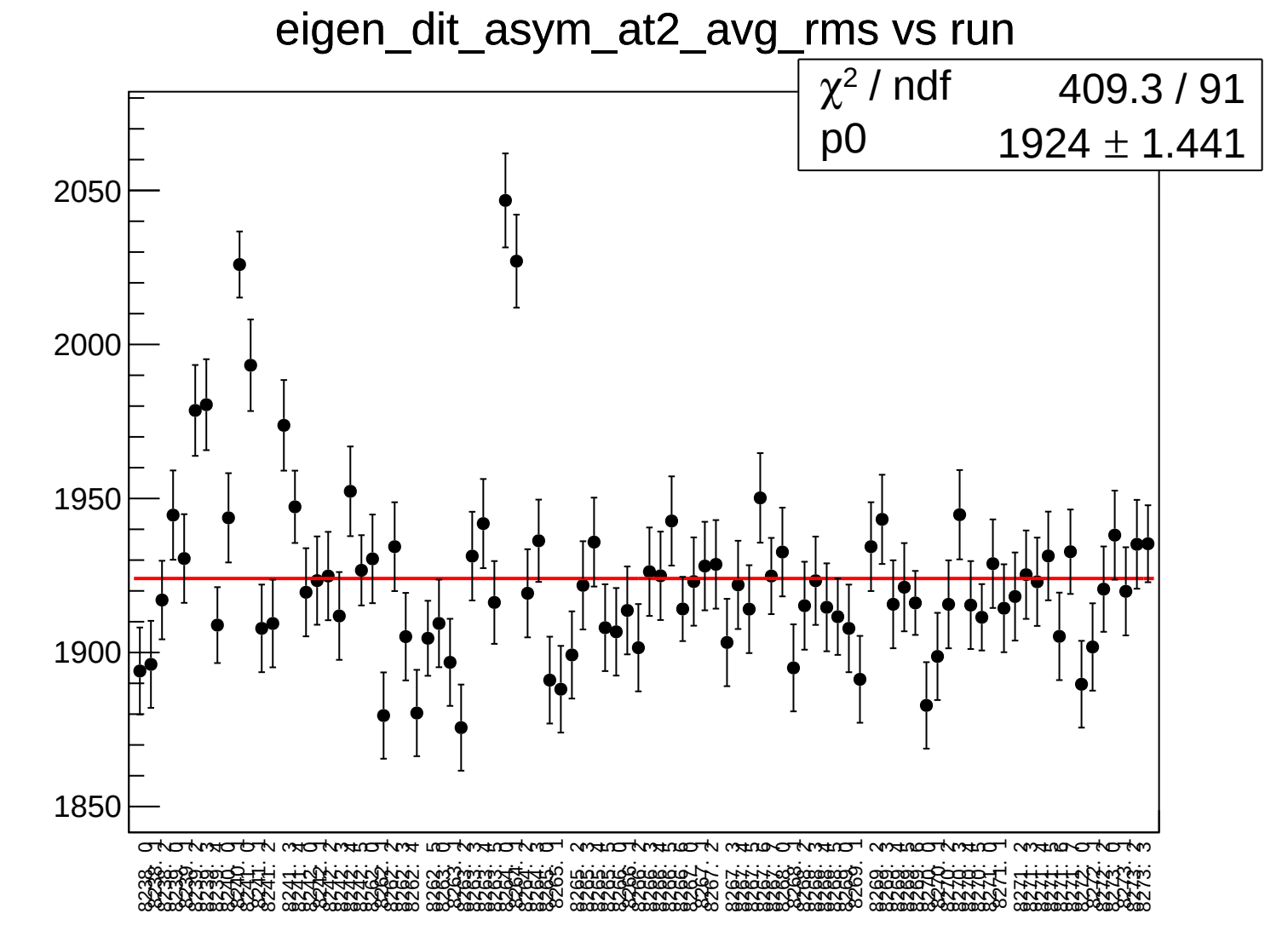

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 68.51 / 91
p0 2.699e+04 ± 1.313e+04
pull
Entries 92
Mean −506.9
Std Dev 0

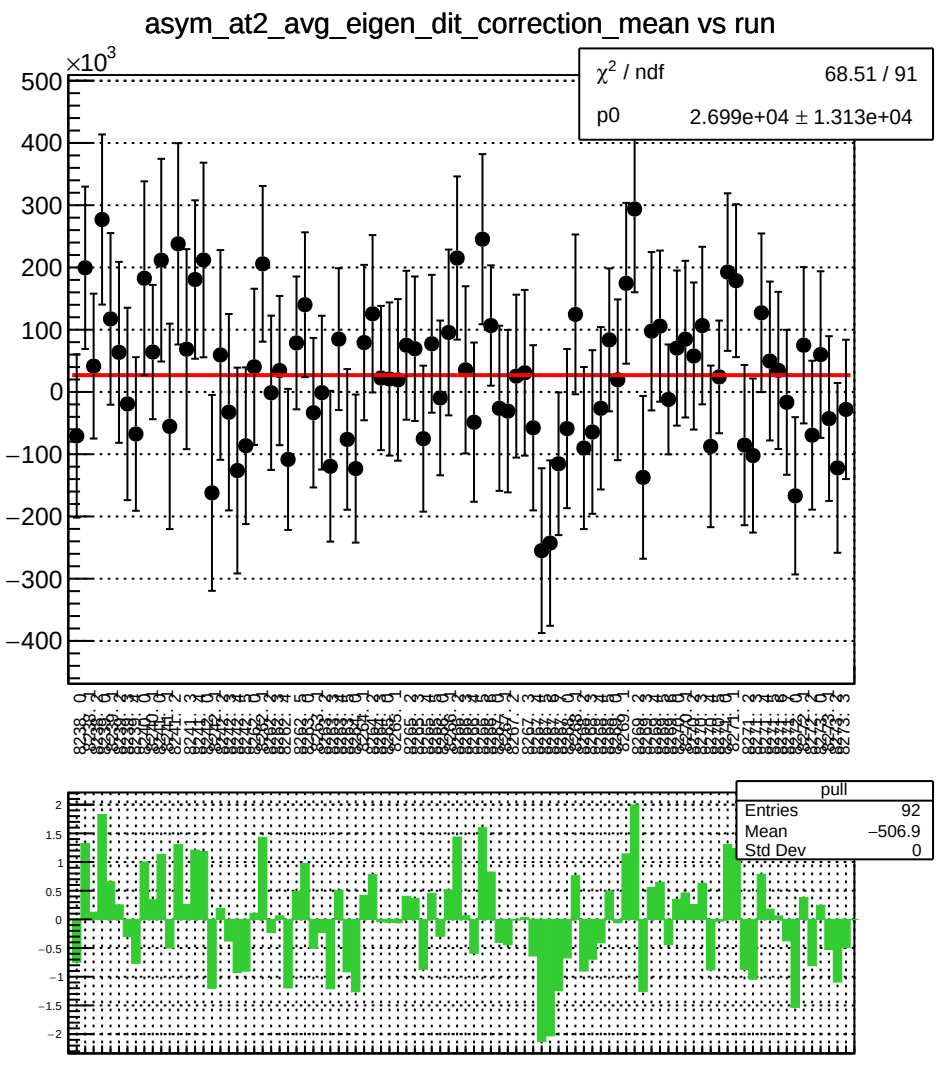

pull1D
Entries 92
Mean 0.006793
Std Dev 0.8629

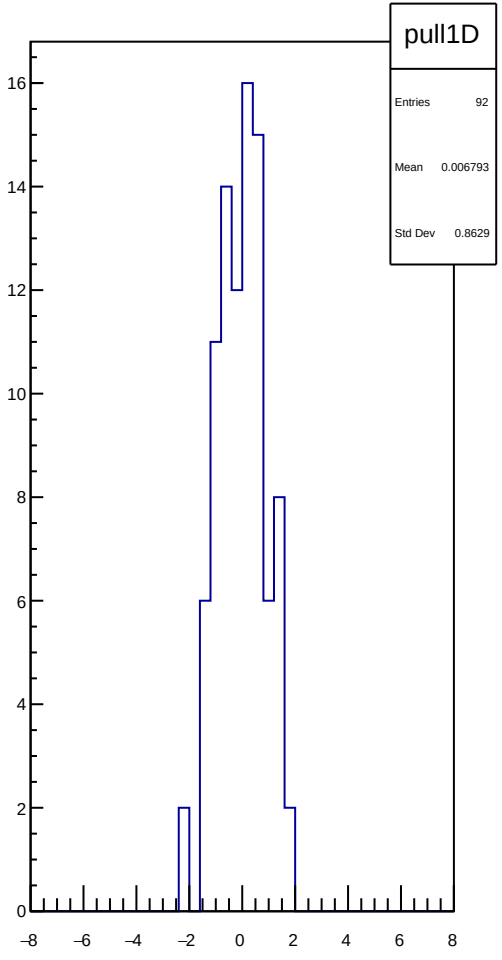

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 1.459e+04 / 91
p0 1.234e+04 ± 9.282
16000
15000
14000
13000
12000
11000
10000

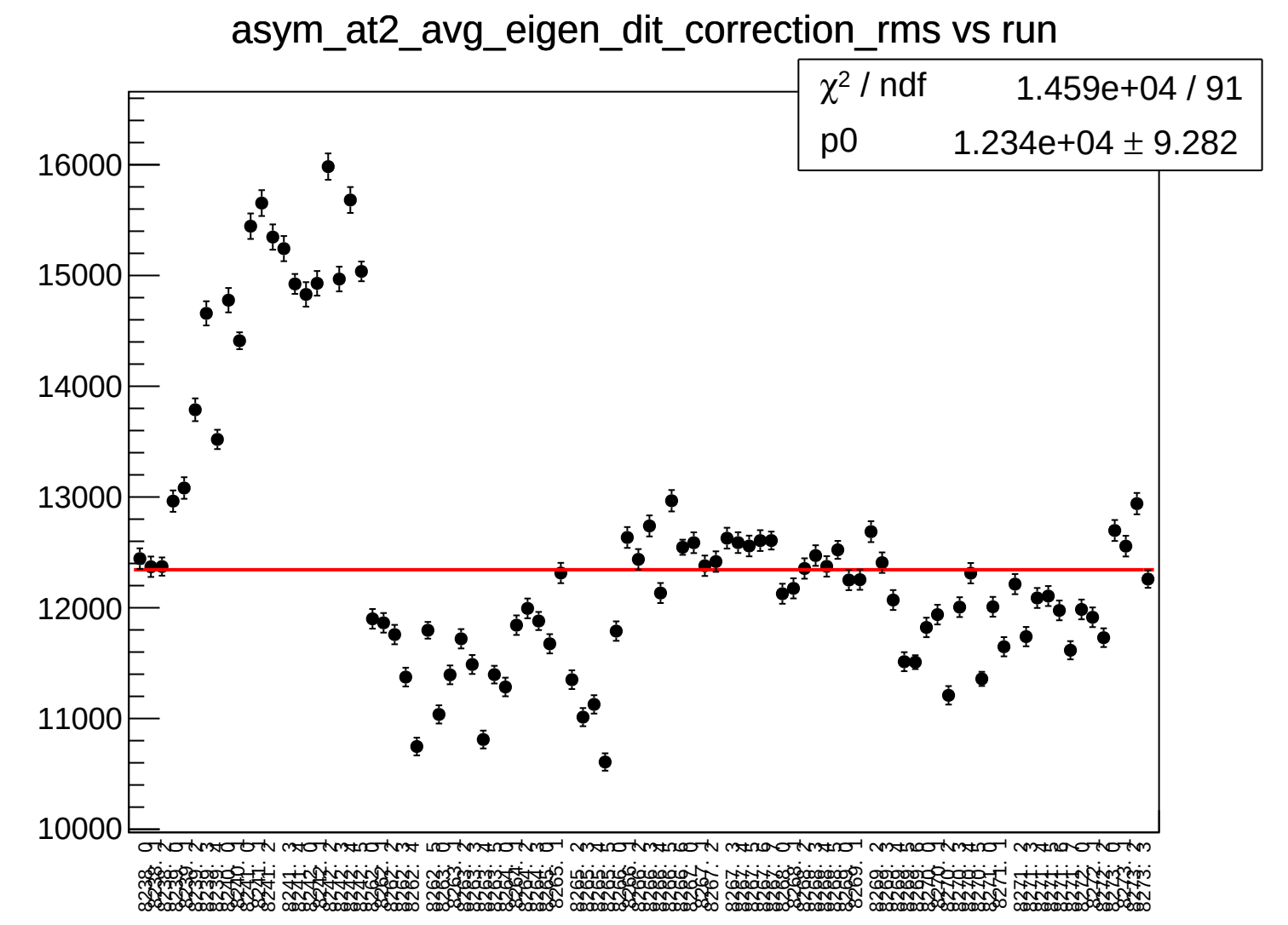

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 90.76 / 91
p0 731.8 ± 2038
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 2600
Std Dev 0
2
1
0
−1
−2

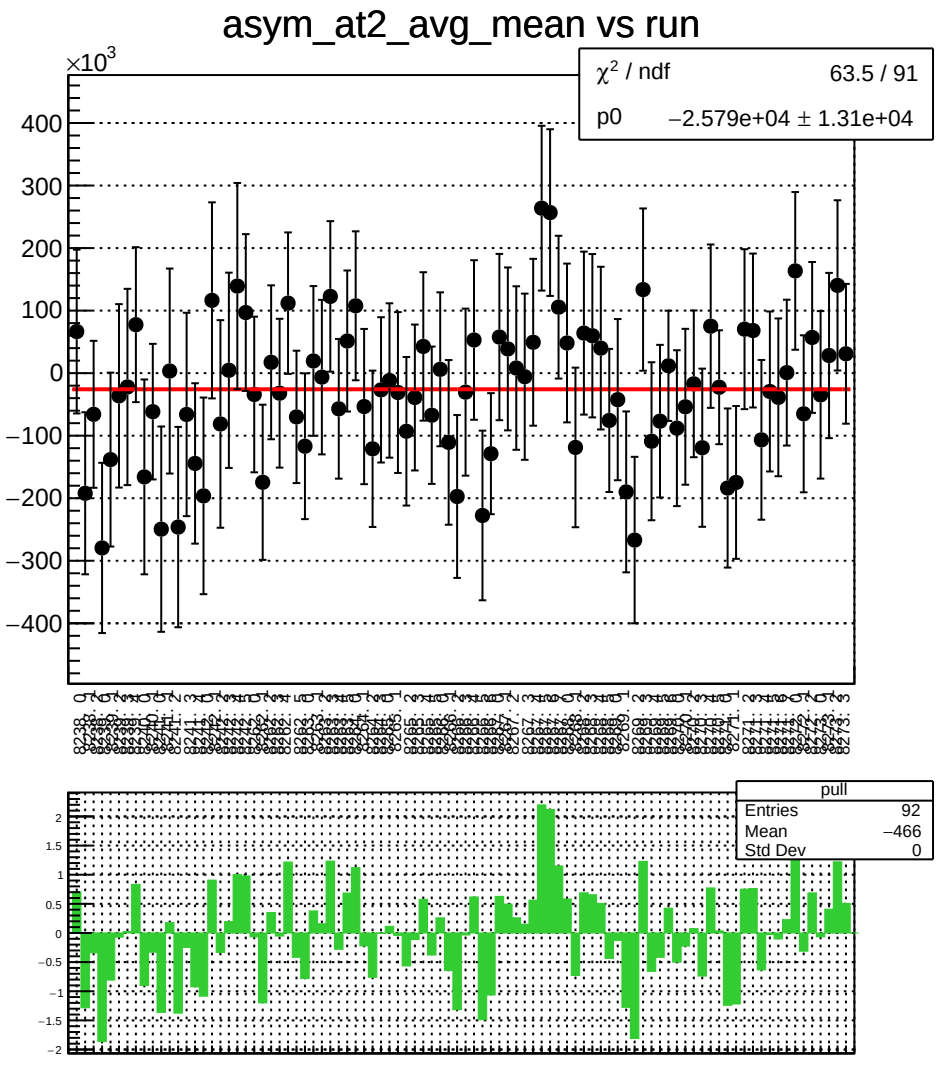

pull1D
Entries 92
Mean 0.001065
Std Dev 0.9932
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

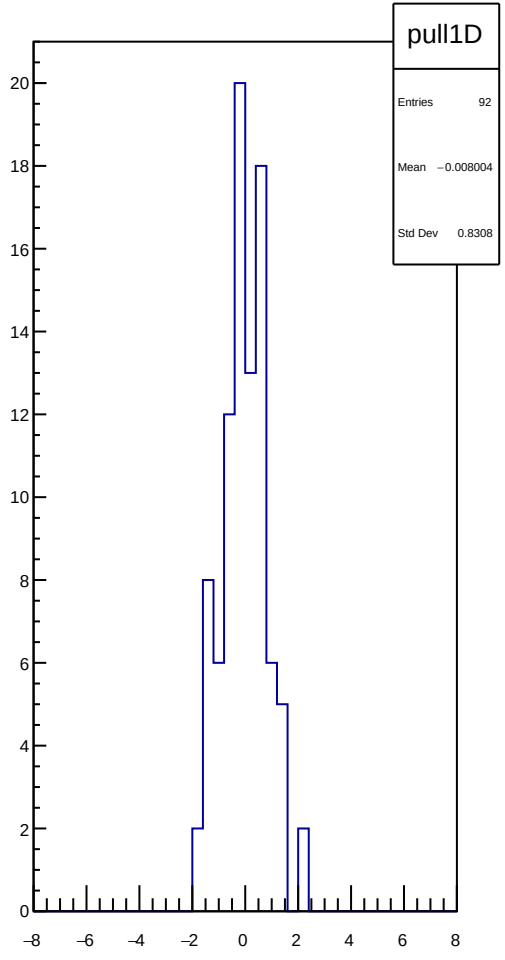

eigen_dit_asym_at2_avg_rms vs run
$\chi^2$ / ndf 409.3 / 91
p0 1924 ± 1.441
2050
2000
1950
1900
1850

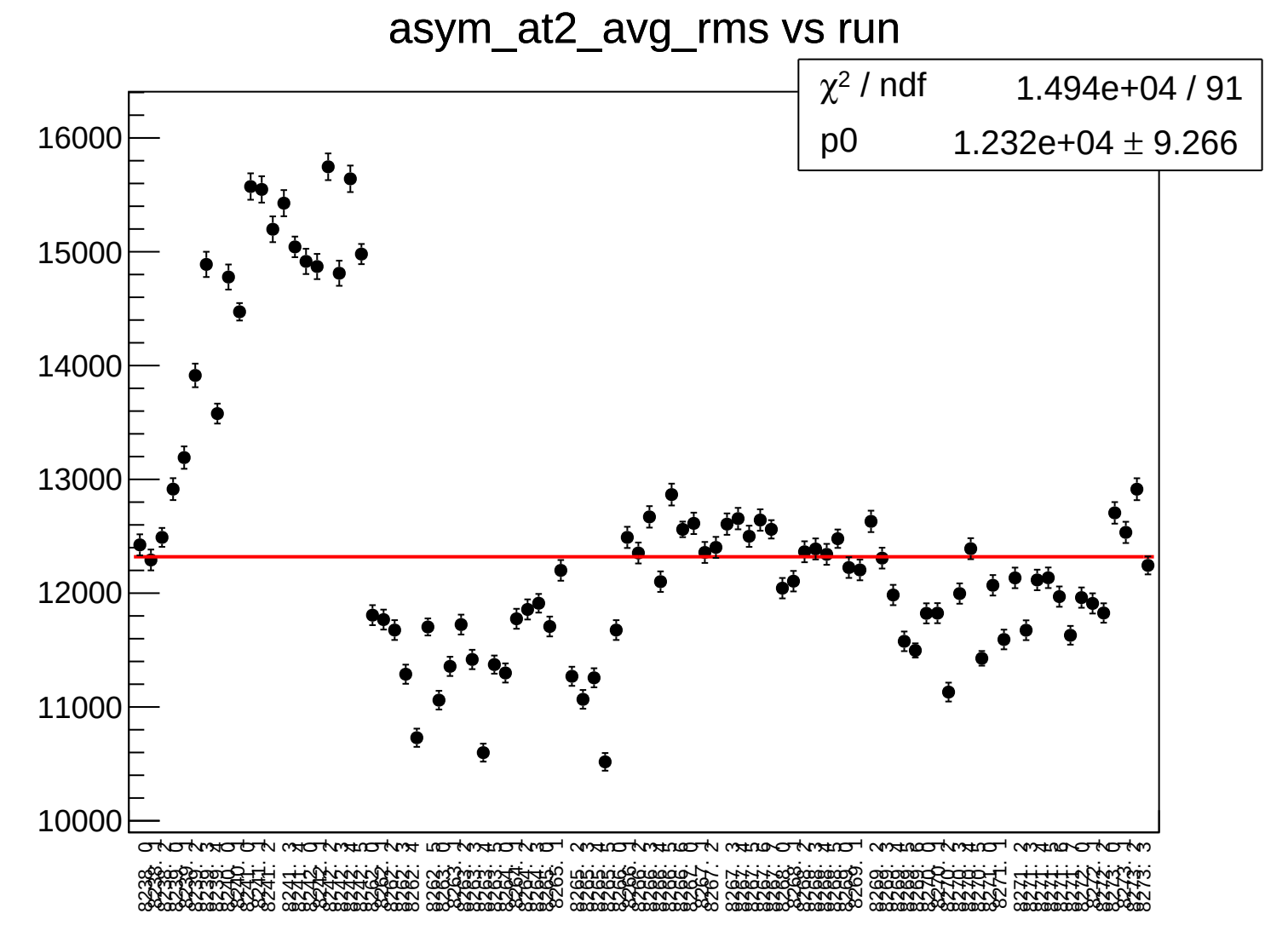

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.51 / 91
p0 2.699e+04 ± 1.313e+04
pull
Entries 92
Mean −506.9
Std Dev 0

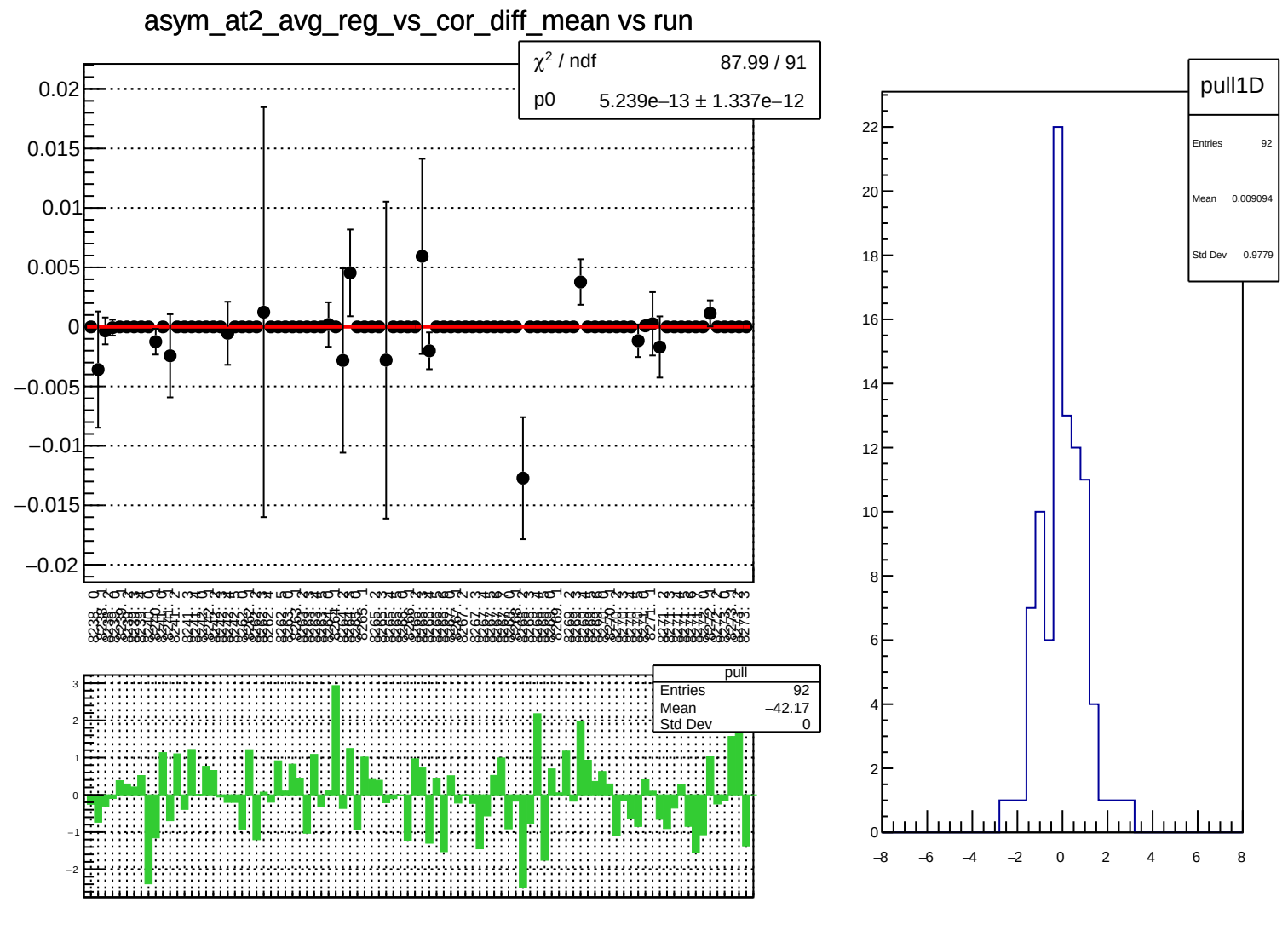

pull1D
Entries 92
Mean 0.006793
Std Dev 0.8629

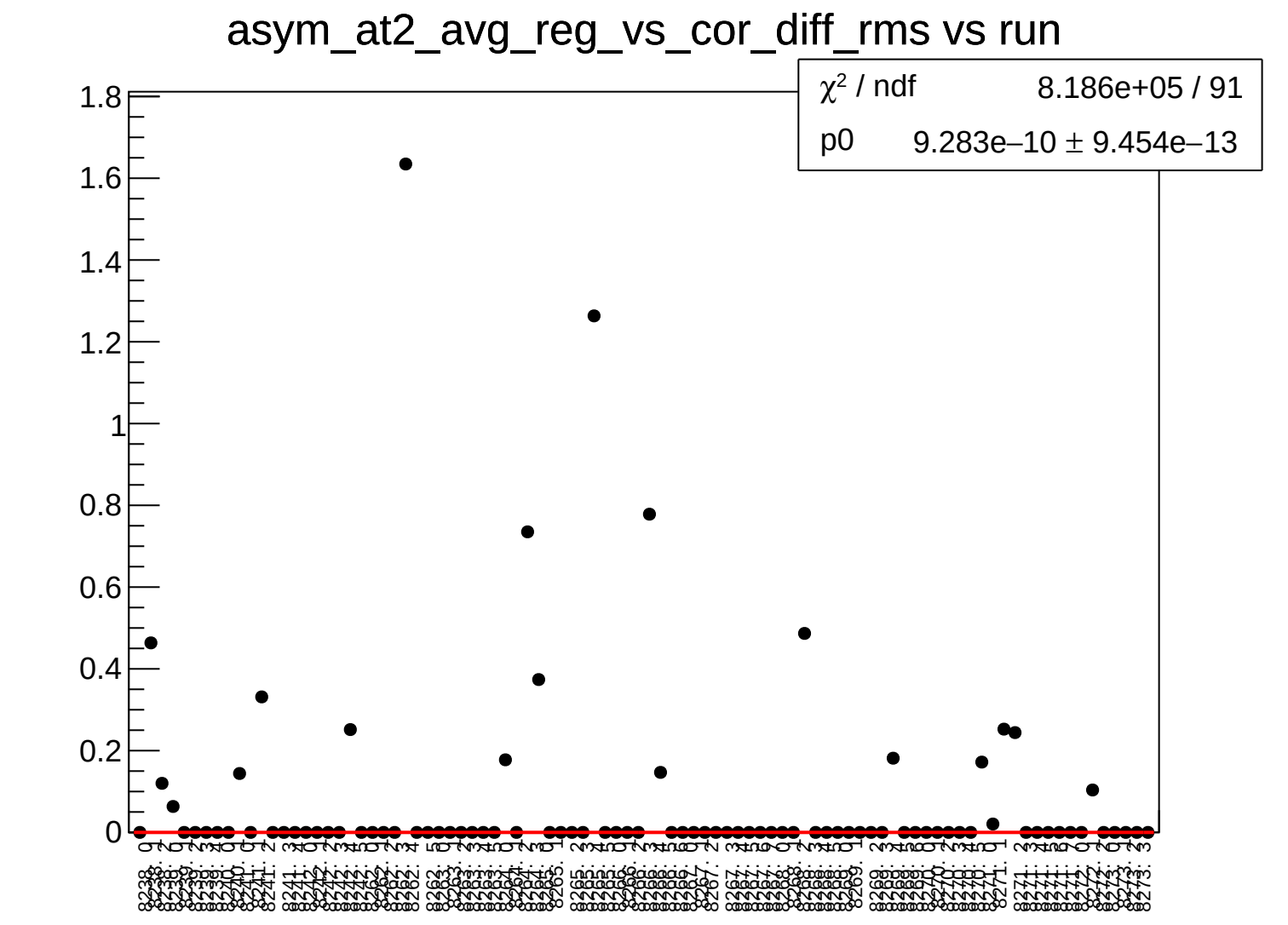

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.459e+04 / 91
p0 1.234e+04 ± 9.282
16000
15000
14000
13000
12000
11000
10000

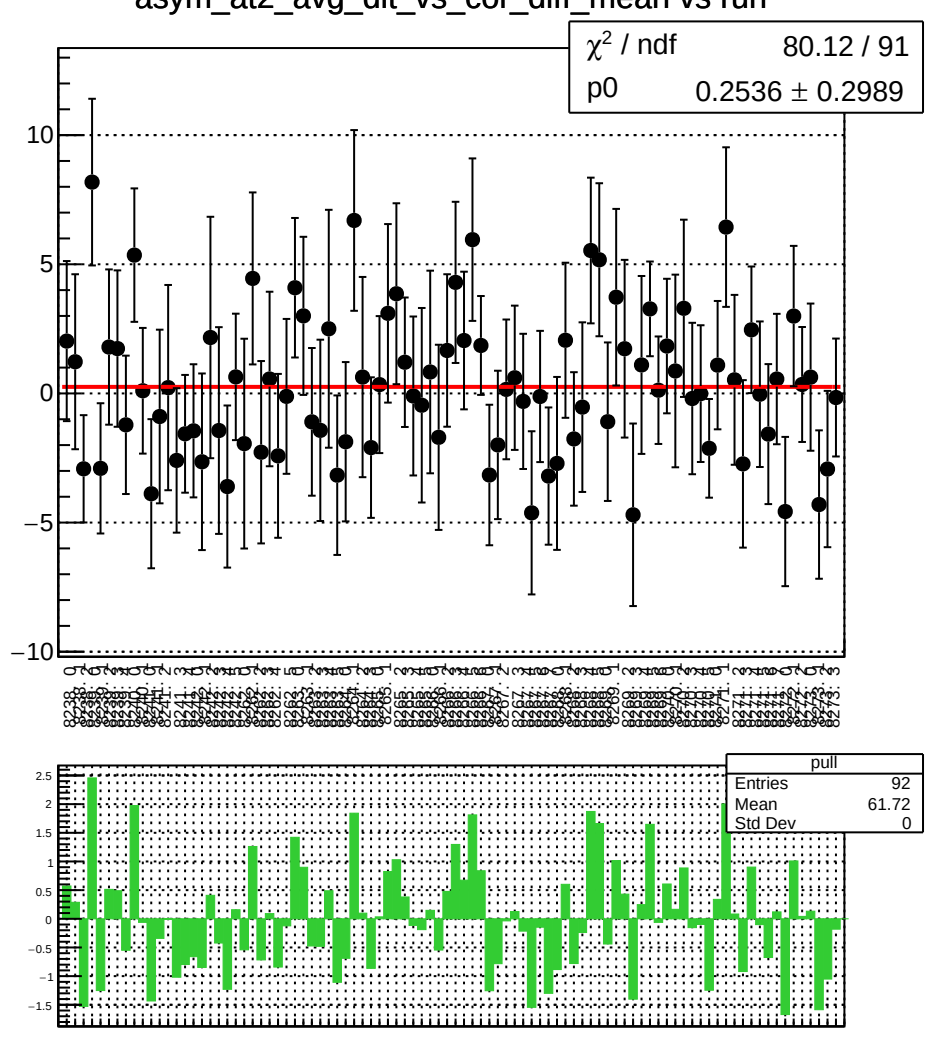

asym_at2_avg_mean vs run
χ² / ndf 63.5 / 91
p0 −2.579e+04 ± 1.31e+04
×10³
pull
Entries 92
Mean −466
Std Dev 0

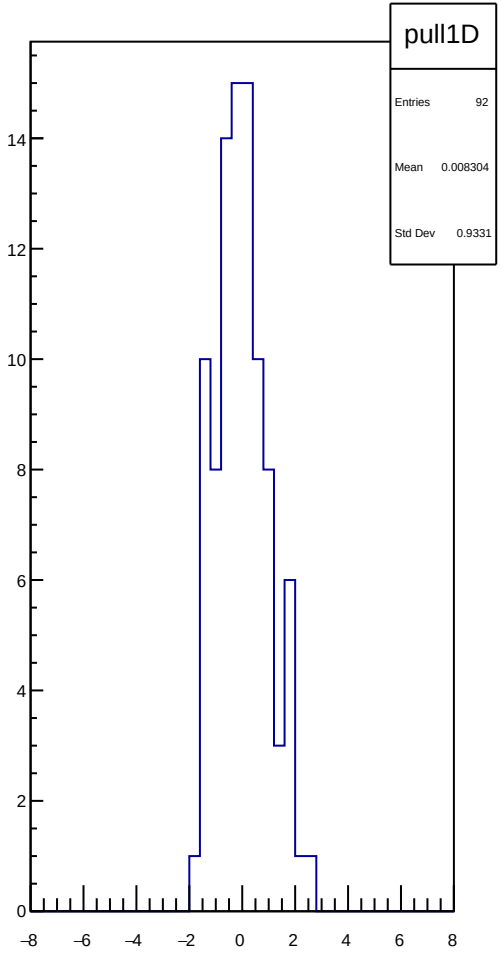

pull1D
Entries 92
Mean −0.008004
Std Dev 0.8308

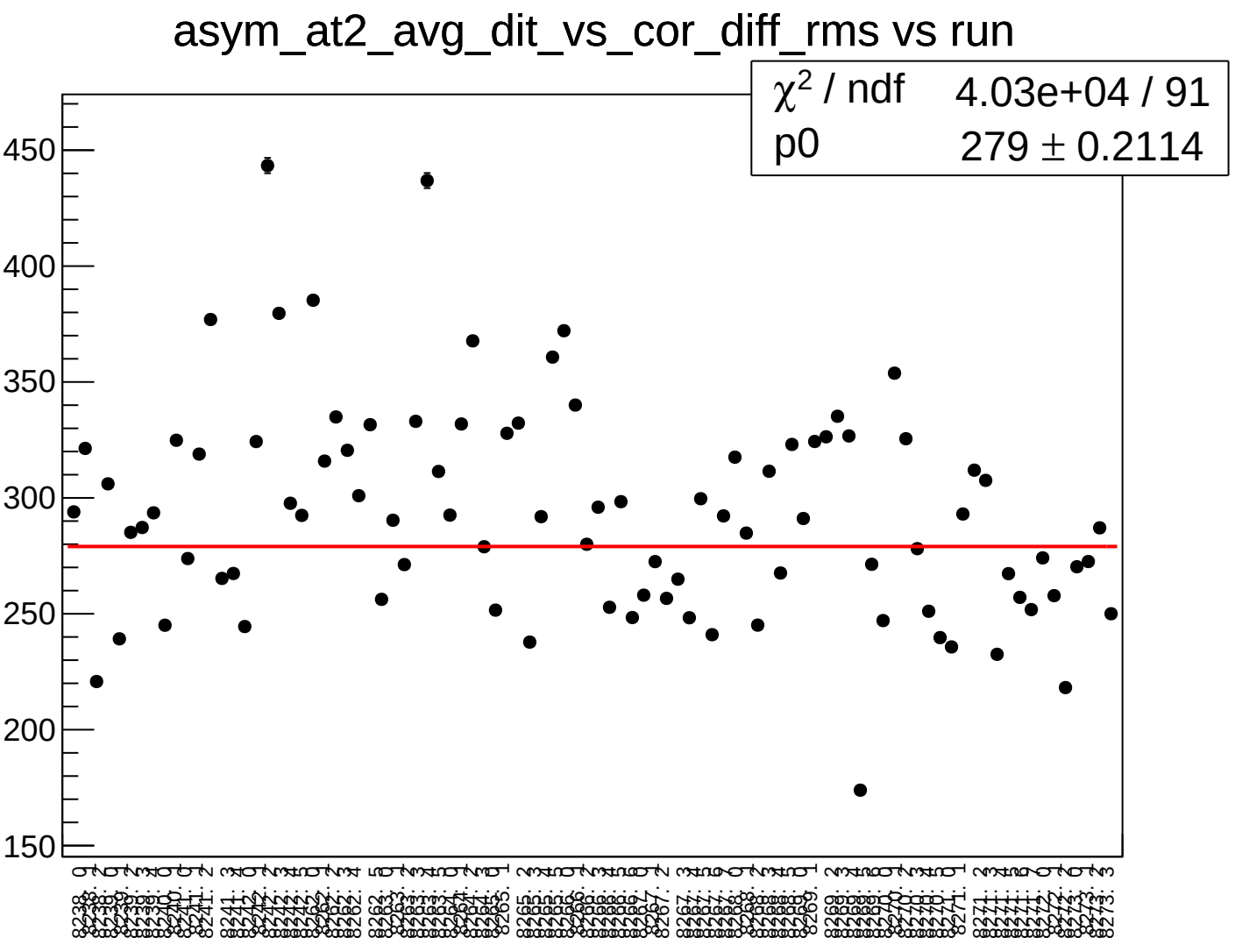

asym_at2_avg_rms vs run
χ² / ndf 1.494e+04 / 91
p0 1.232e+04 ± 9.266
16000
15000
14000
13000
12000
11000
10000

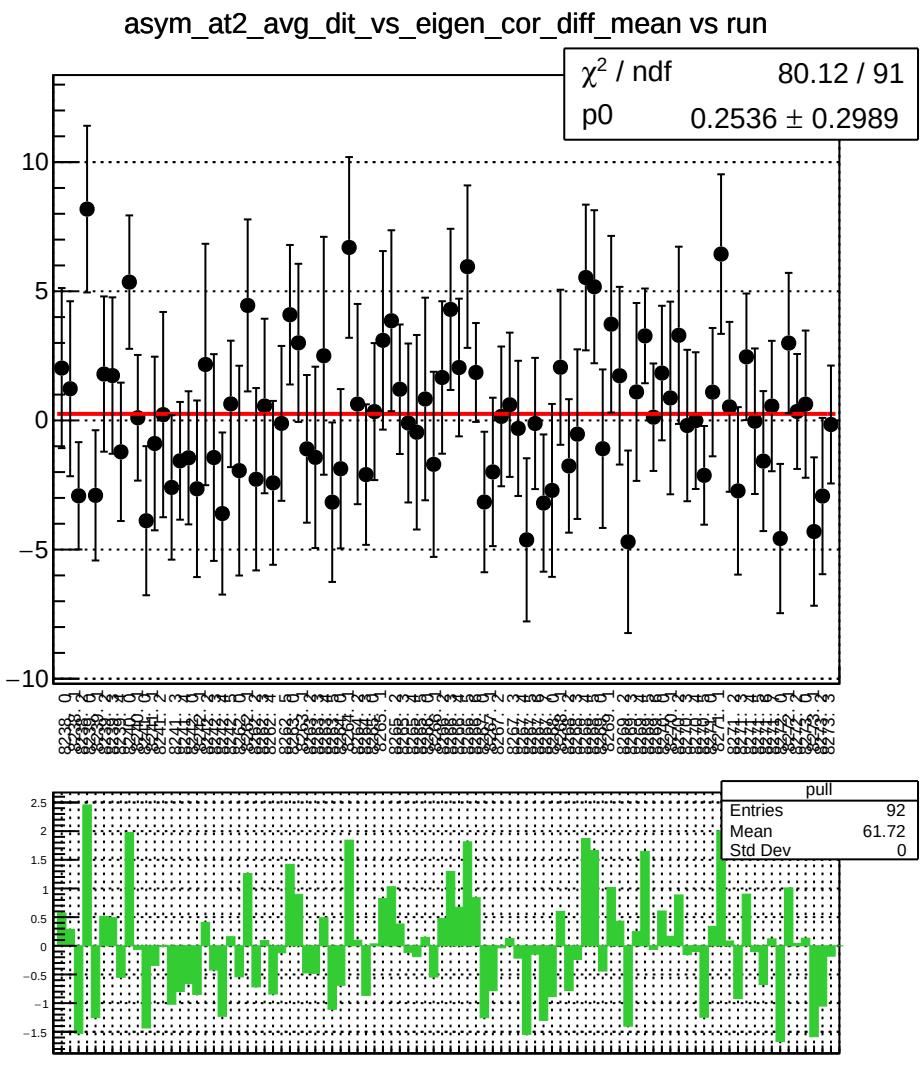

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.99 / 91
p0 5.239e−13 ± 1.337e−12
pull
Entries 92
Mean −42.17
Std Dev 0
pull1D
Entries 92
Mean 0.009094
Std Dev 0.9779

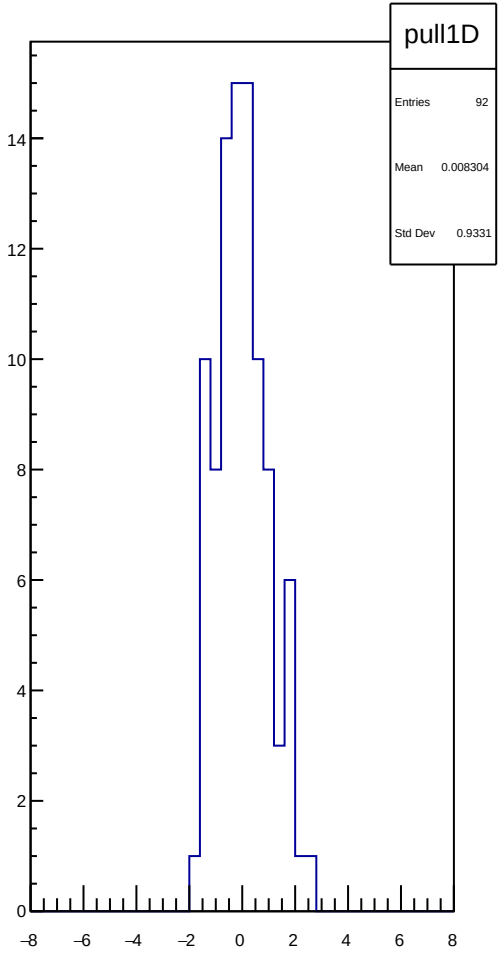

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.186e+05 / 91
p0 9.283e−10 ± 9.454e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

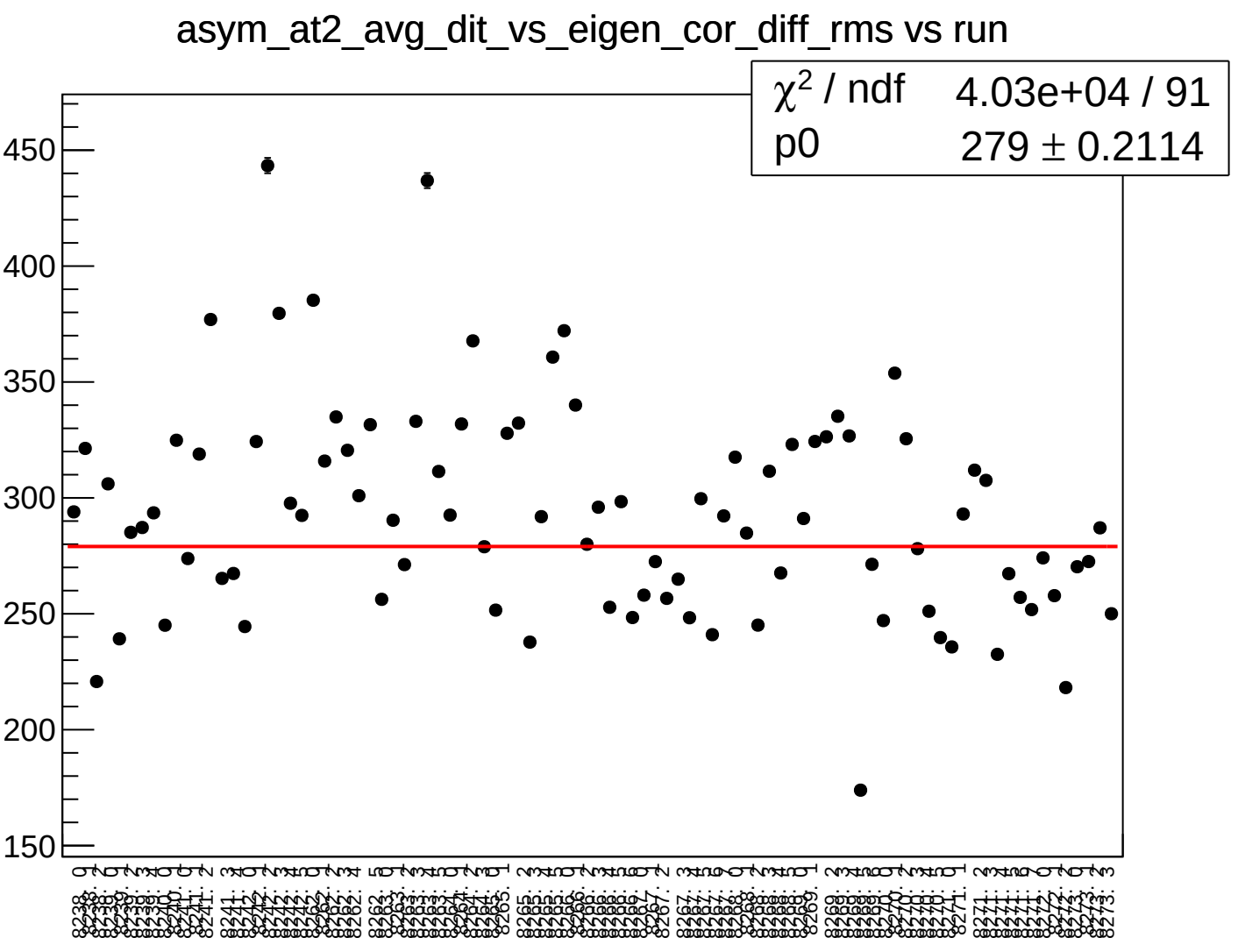

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.12 / 91
p0 0.2536 ± 0.2989
pull
Entries 92
Mean 61.72
Std Dev 0

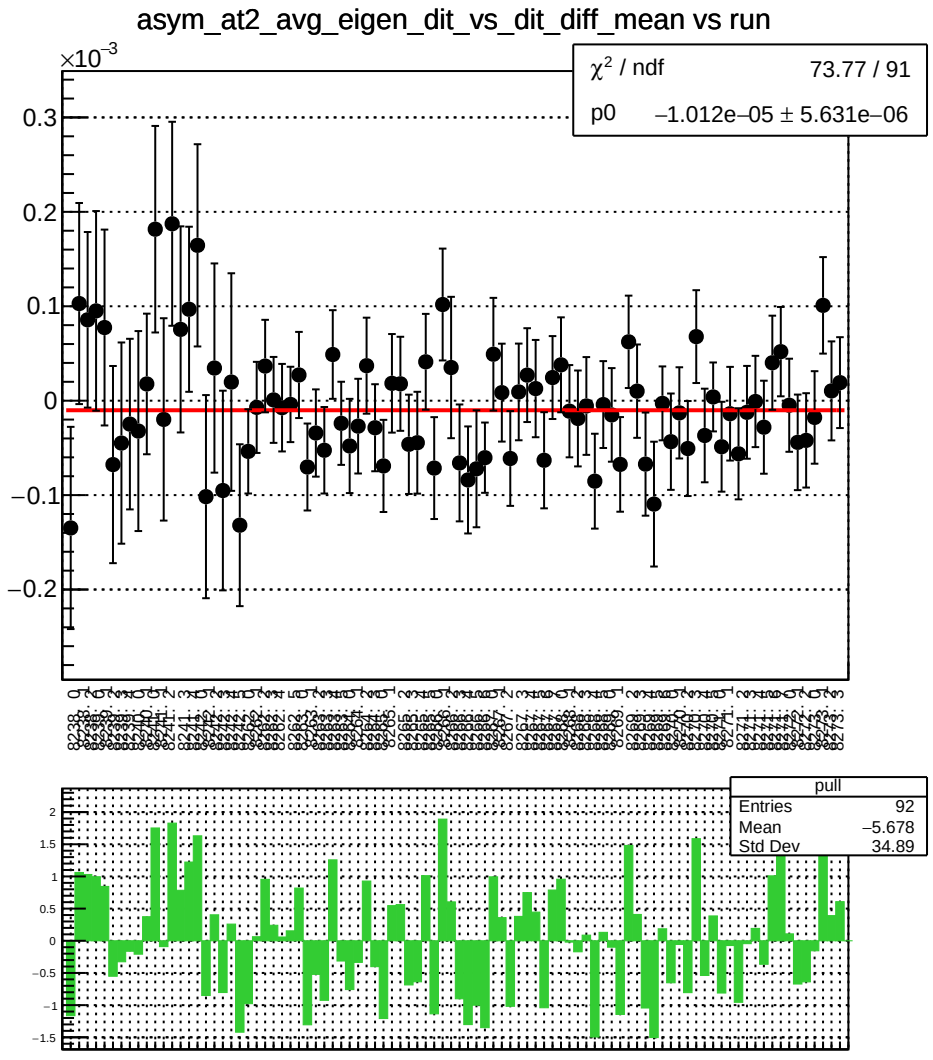

pull1D
Entries 92
Mean 0.008304
Std Dev 0.9331

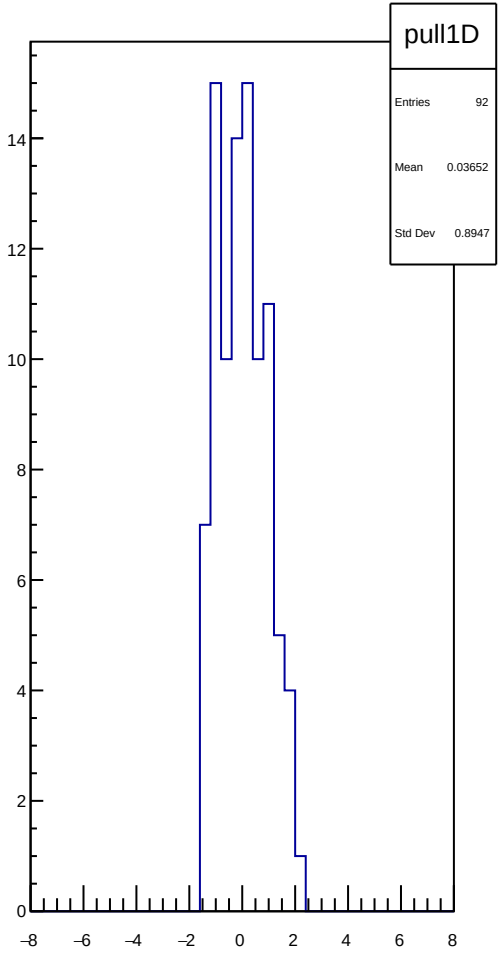

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.03e+04 / 91
p0 279 ± 0.2114
450
400
350
300
250
200
150

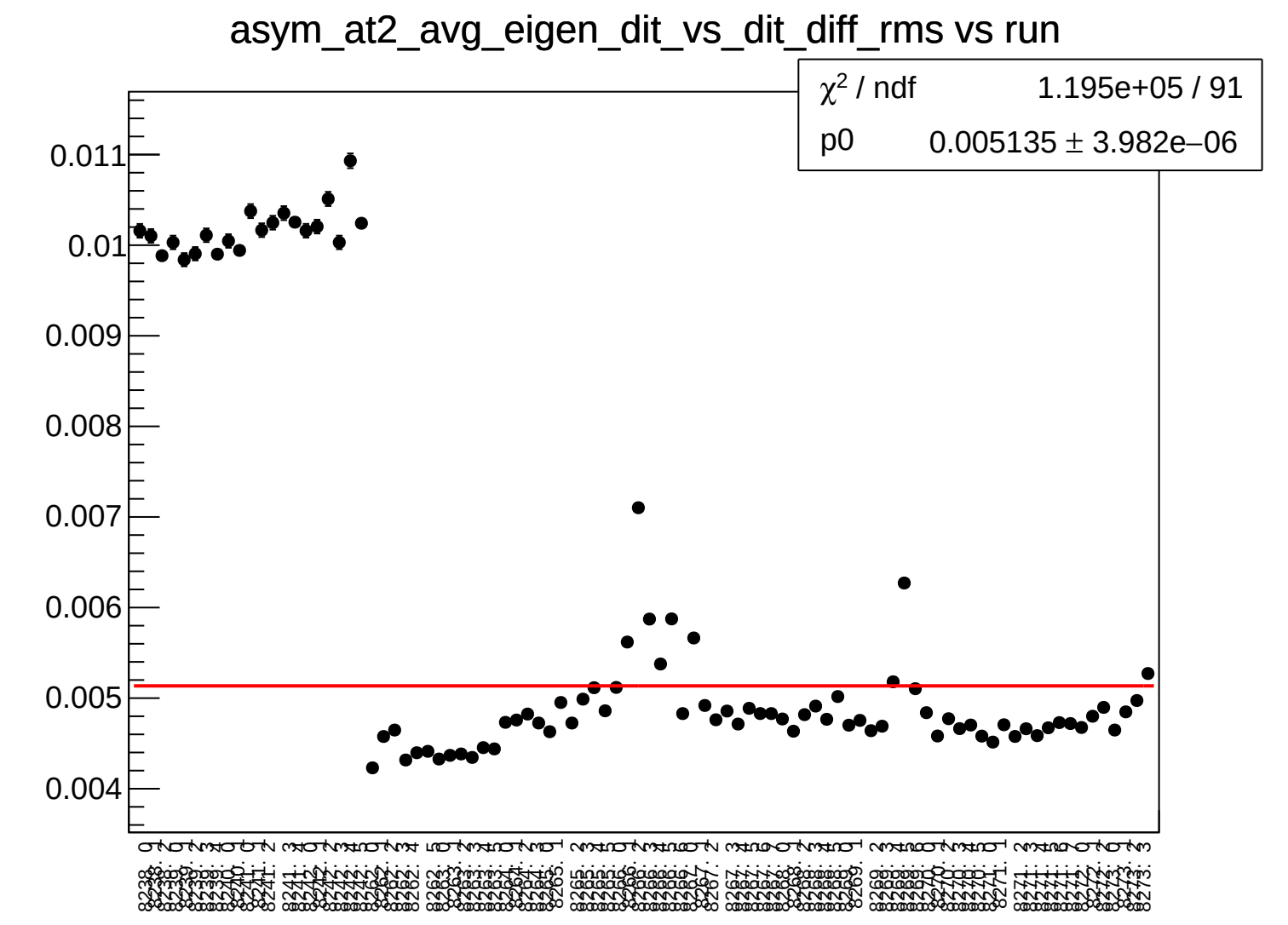

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.12 / 91
p0 0.2536 ± 0.2989
pull
Entries 92
Mean 61.72
Std Dev 0

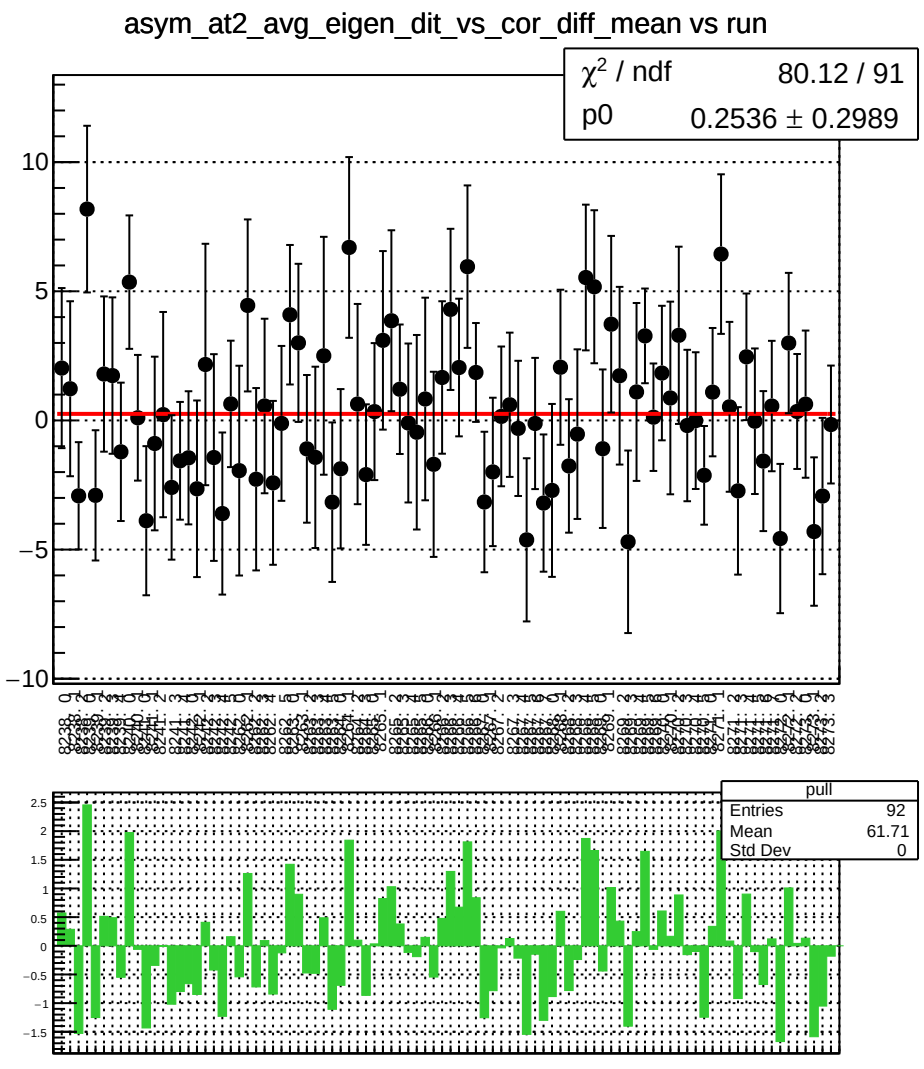

pull1D
Entries 92
Mean 0.008304
Std Dev 0.9331

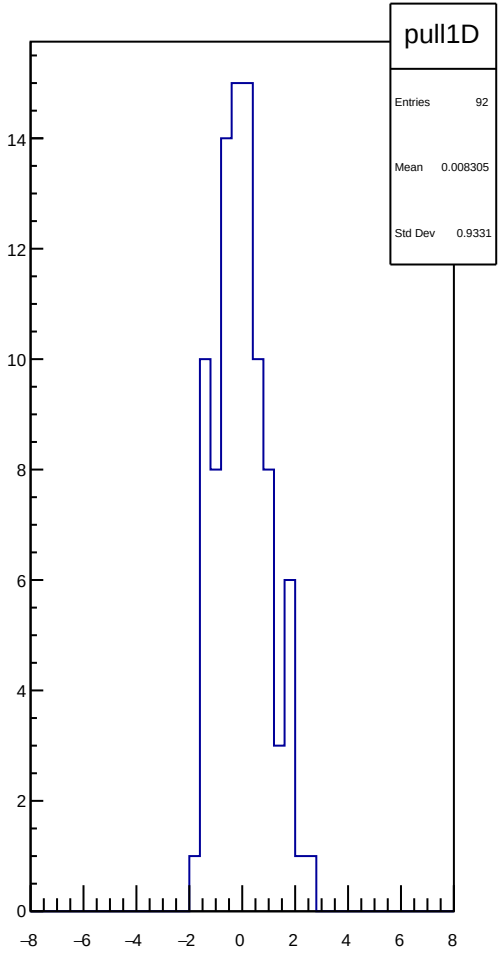

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.03e+04 / 91
p0 279 ± 0.2114
450
400
350
300
250
200
150

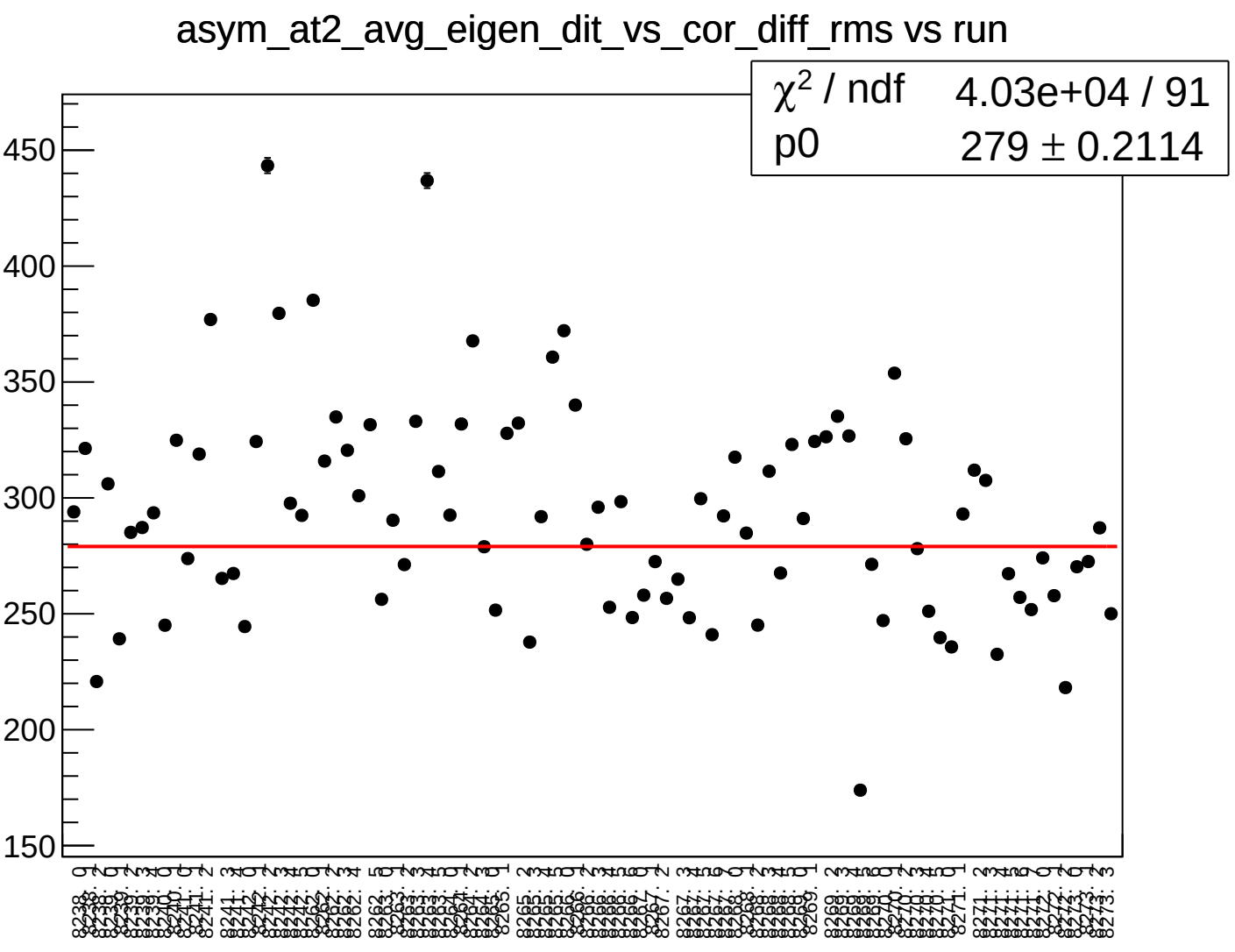

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 73.77 / 91
p0 −1.012e−05 ± 5.631e−06
pull
Entries 92
Mean −5.678
Std Dev 34.89

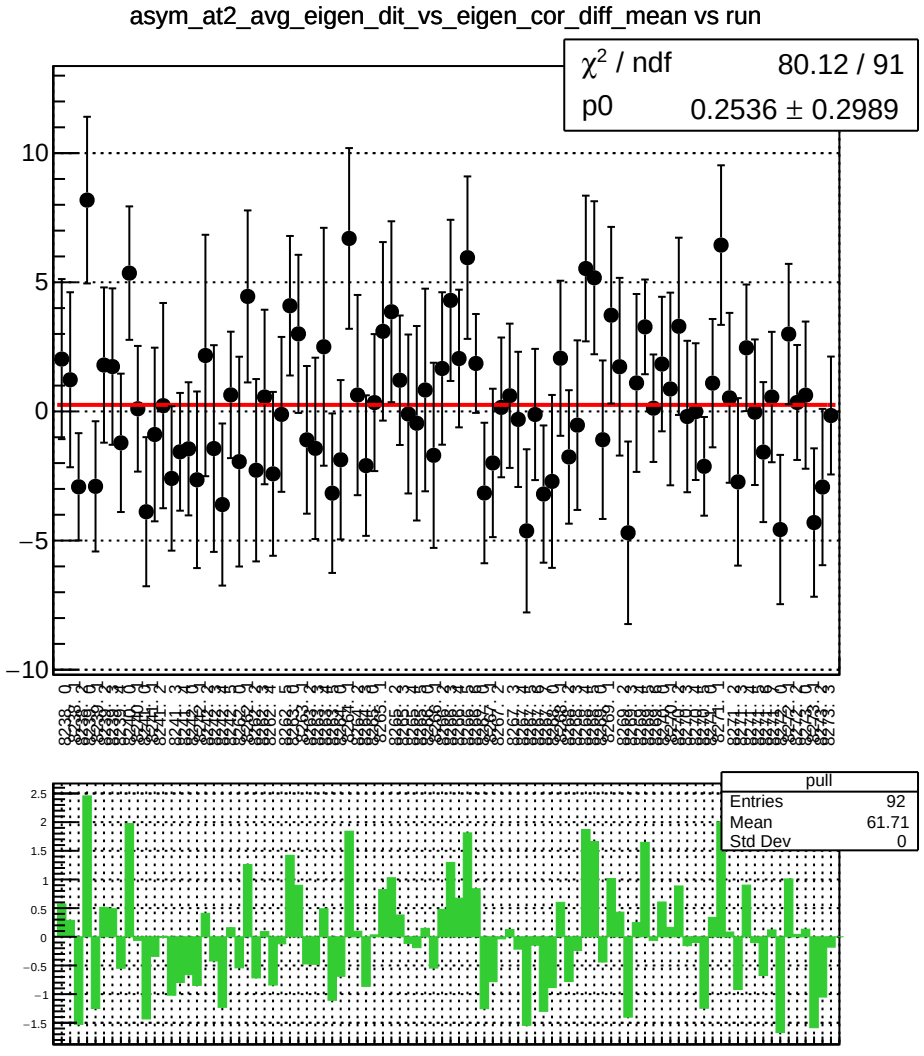

pull1D
Entries 92
Mean 0.03652
Std Dev 0.8947

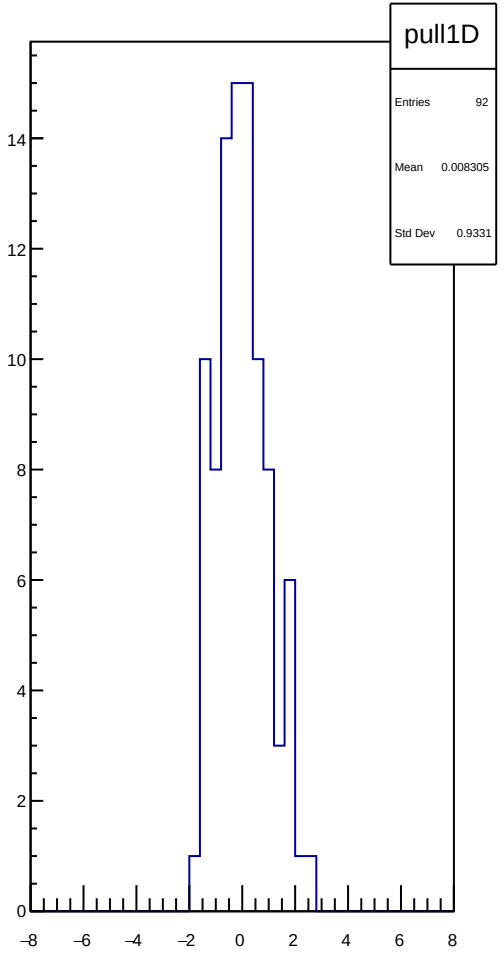

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.195e+05 / 91
p0 0.005135 ± 3.982e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

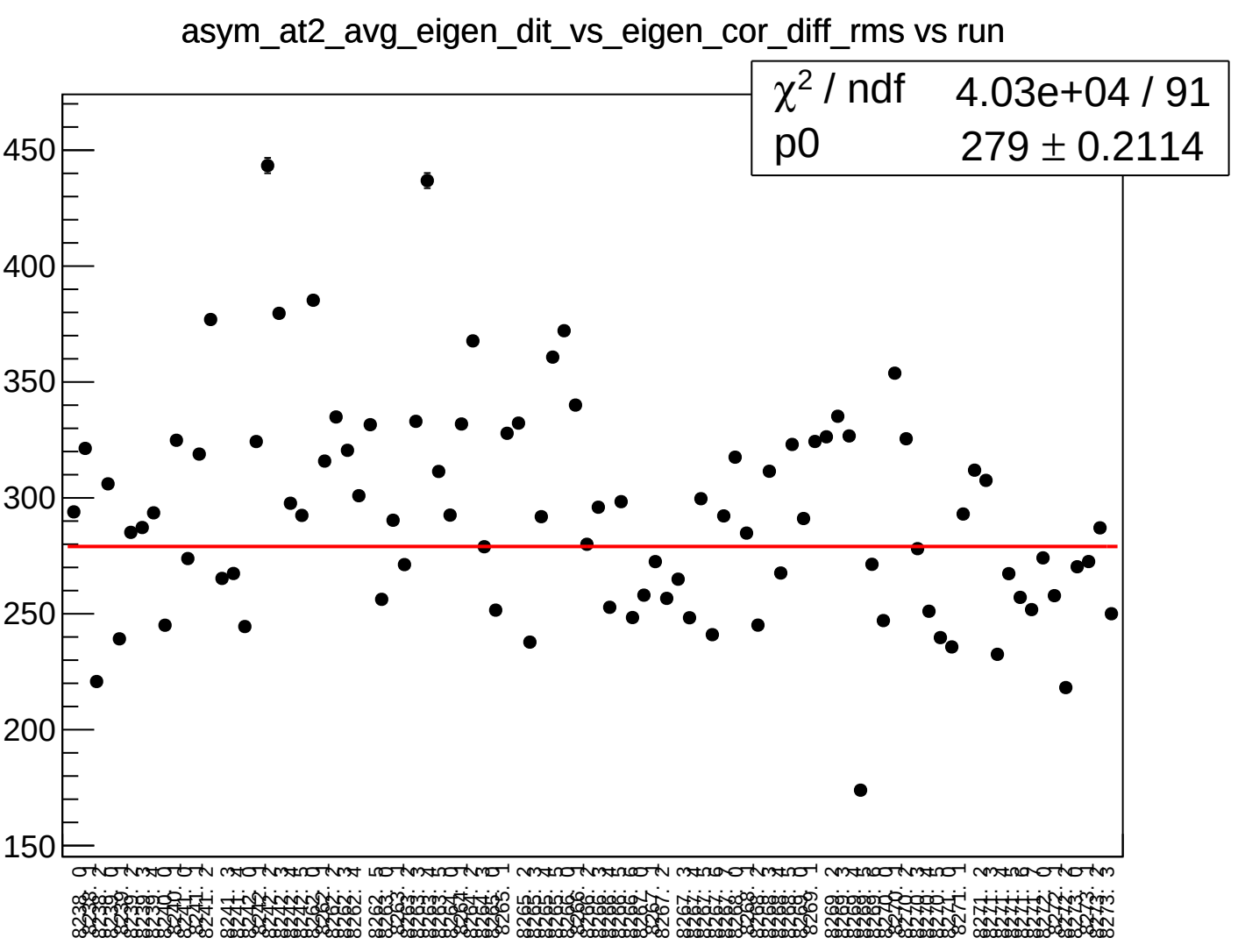

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.12 / 91
p0 0.2536 ± 0.2989
pull
Entries 92
Mean 61.71
Std Dev 0

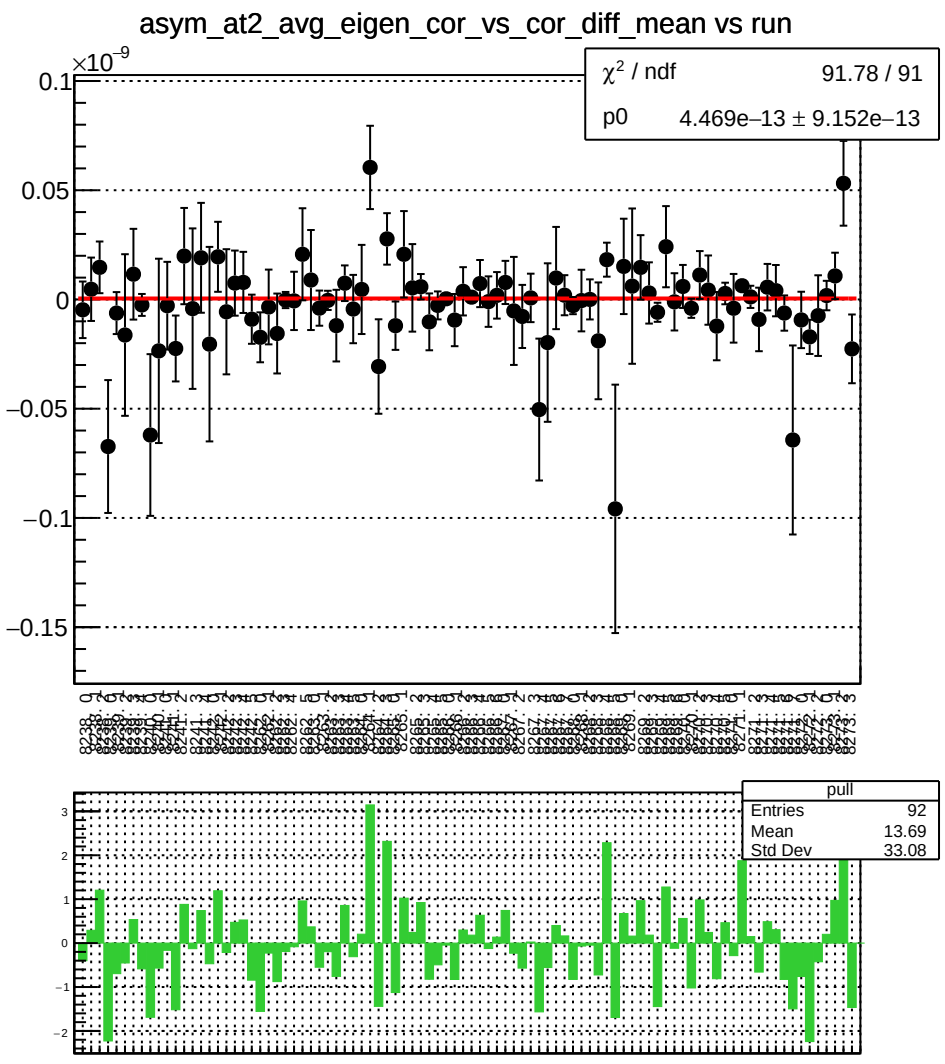

pull1D
Entries 92
Mean 0.008305
Std Dev 0.9331

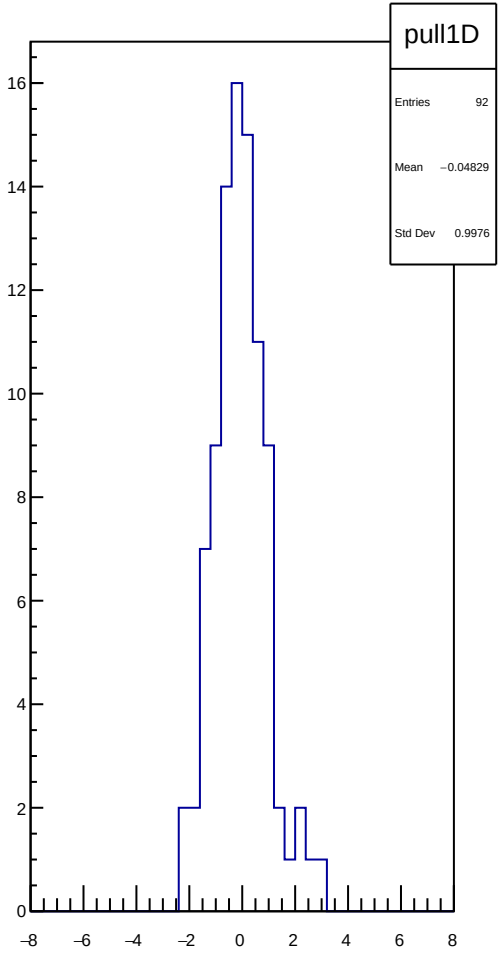

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.03e+04 / 91
p0 279 ± 0.2114
450
400
350
300
250
200
150

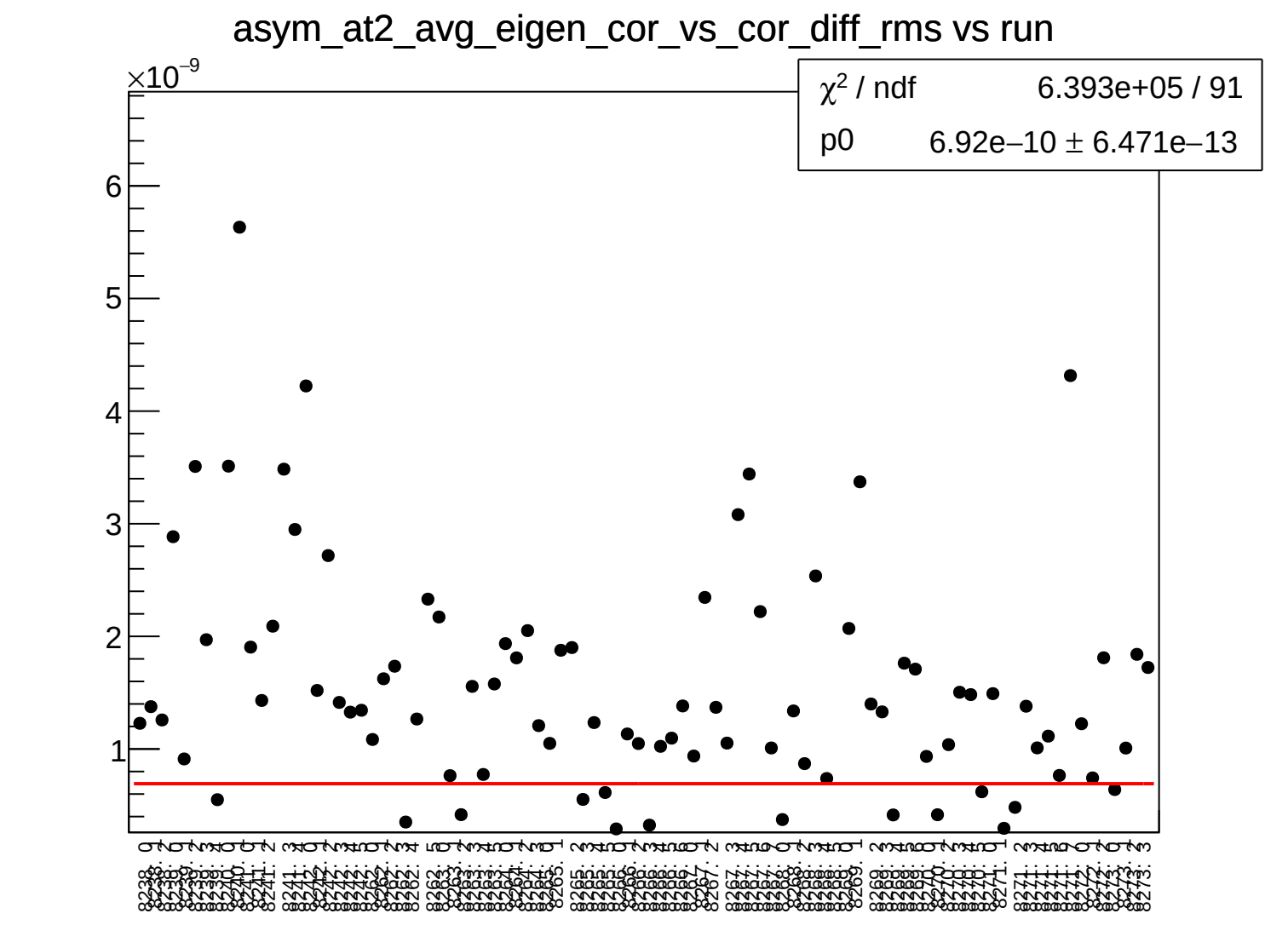

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.12 / 91
p0 0.2536 ± 0.2989
pull
Entries 92
Mean 61.71
Std Dev 0

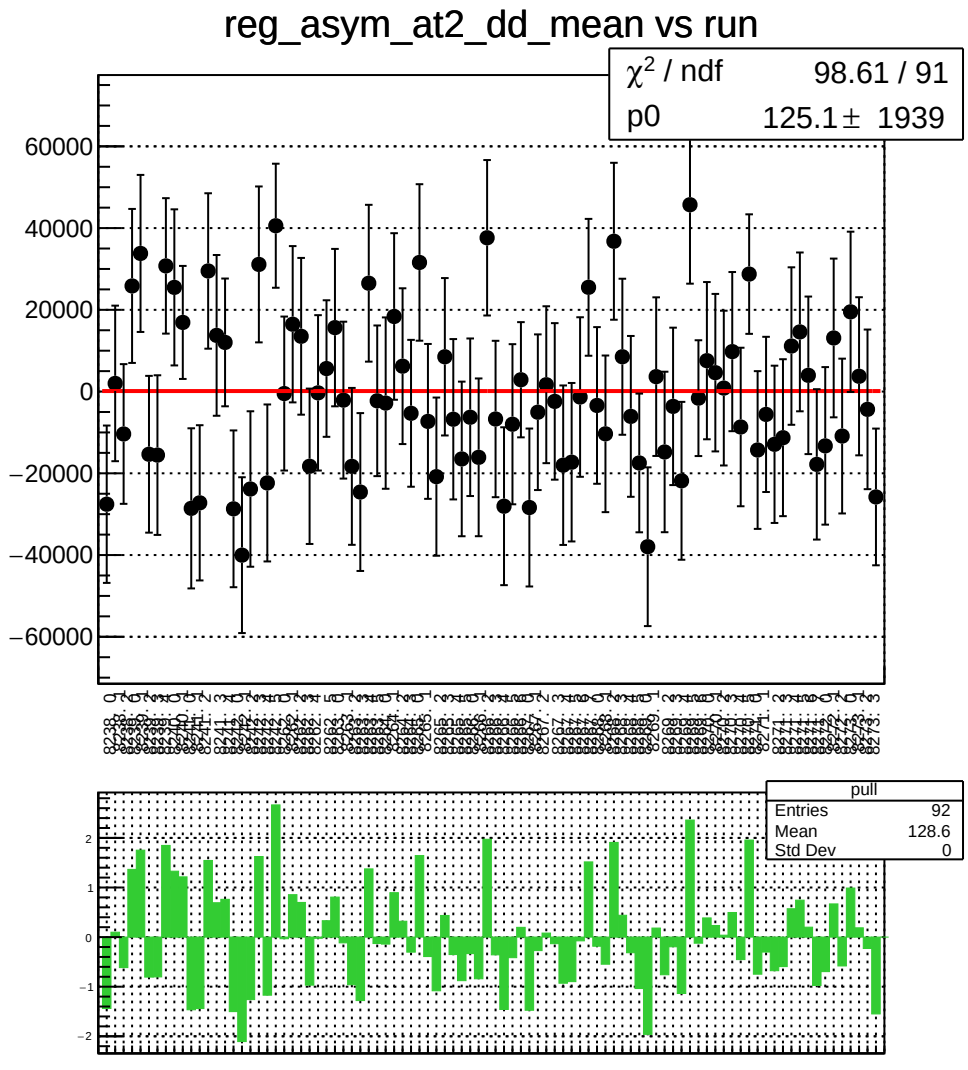

pull1D
Entries 92
Mean 0.008305
Std Dev 0.9331

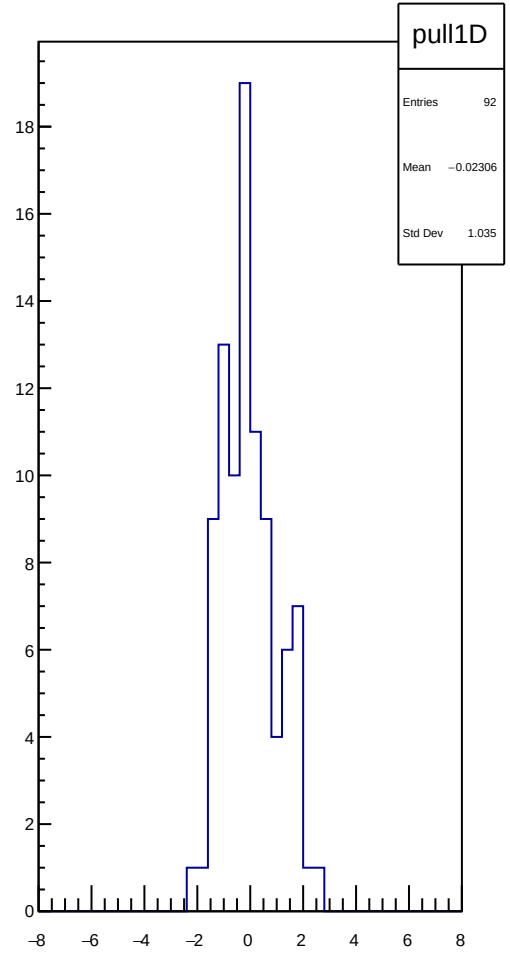

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.03e+04 / 91
p0 279 ± 0.2114
450
400
350
300
250
200
150

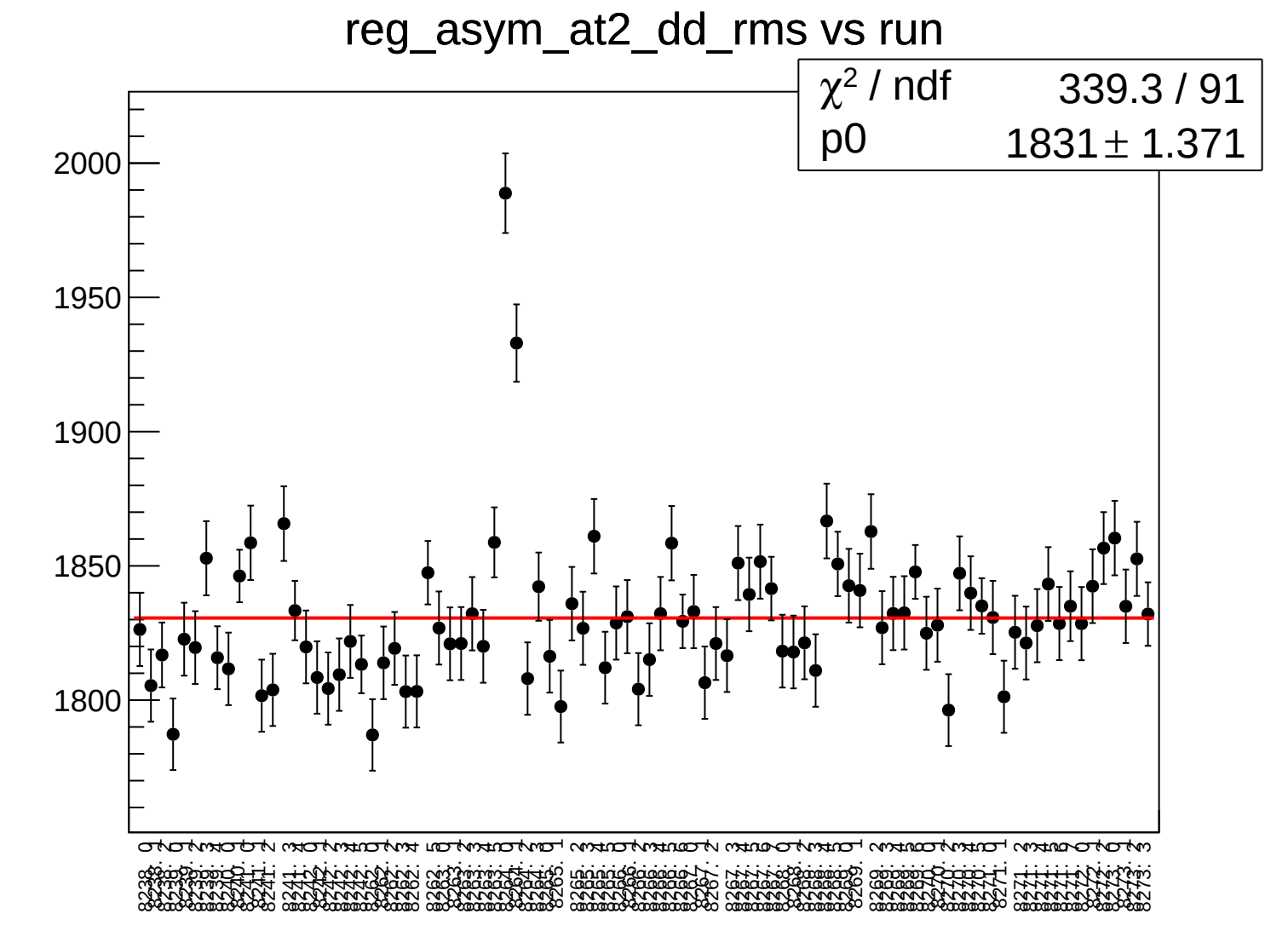

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 91.78 / 91
p0 4.469e−13 ± 9.152e−13
pull
Entries 92
Mean 13.69
Std Dev 33.08

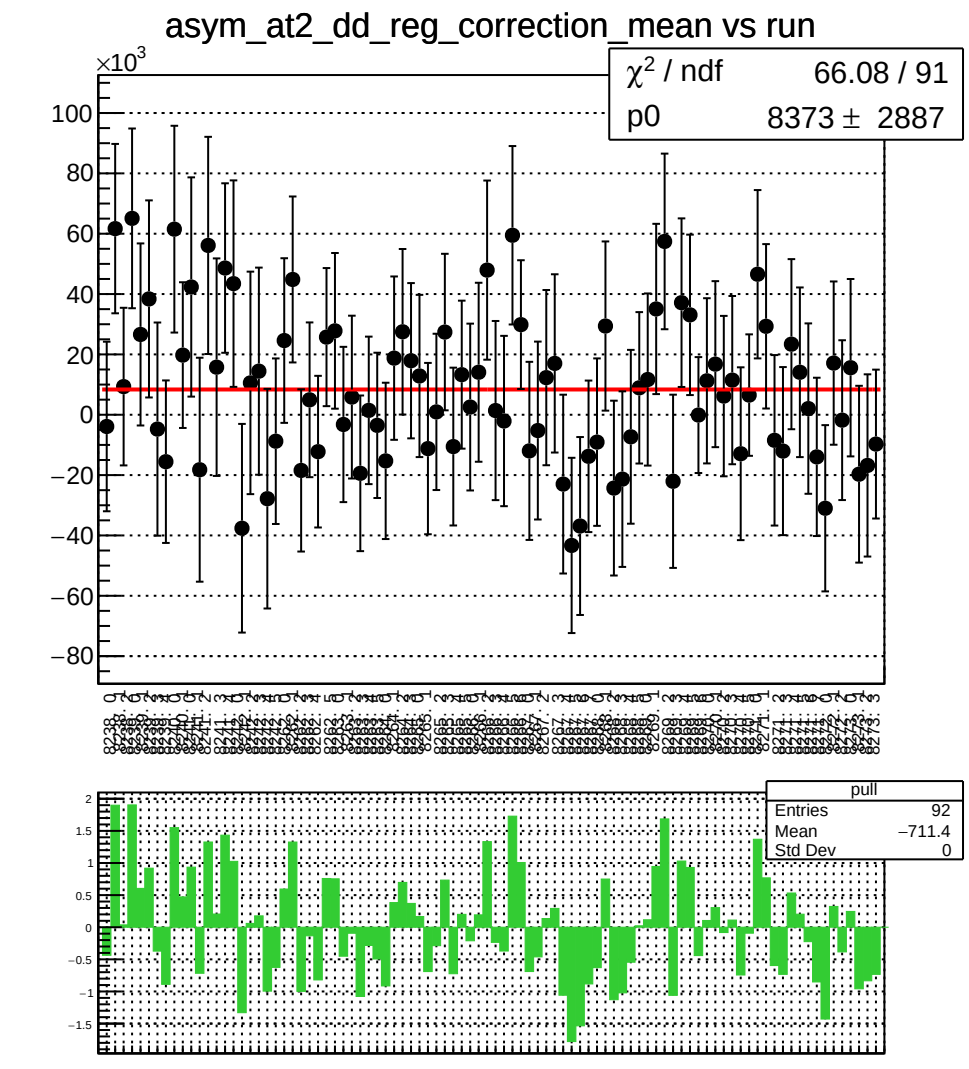

pull1D
Entries 92
Mean −0.04829
Std Dev 0.9976

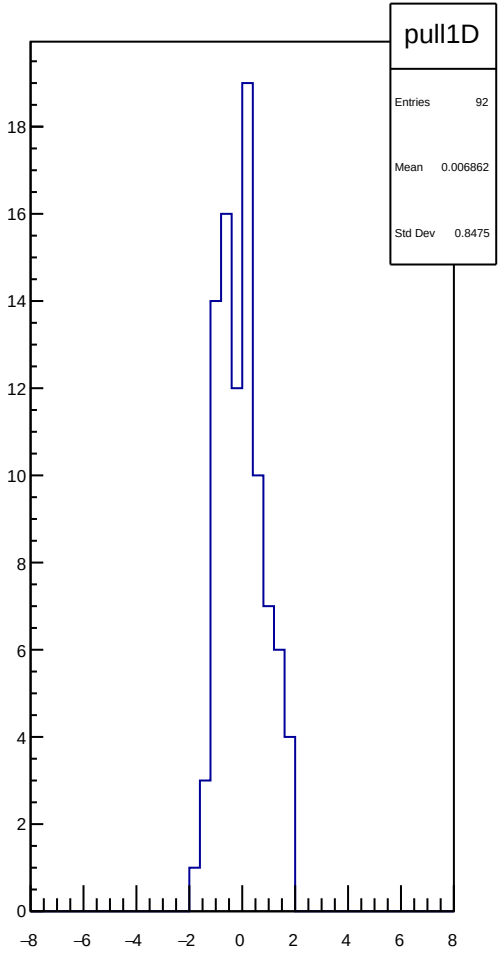

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.393e+05 / 91
p0 6.92e−10 ± 6.471e−13
6
5
4
3
2
1

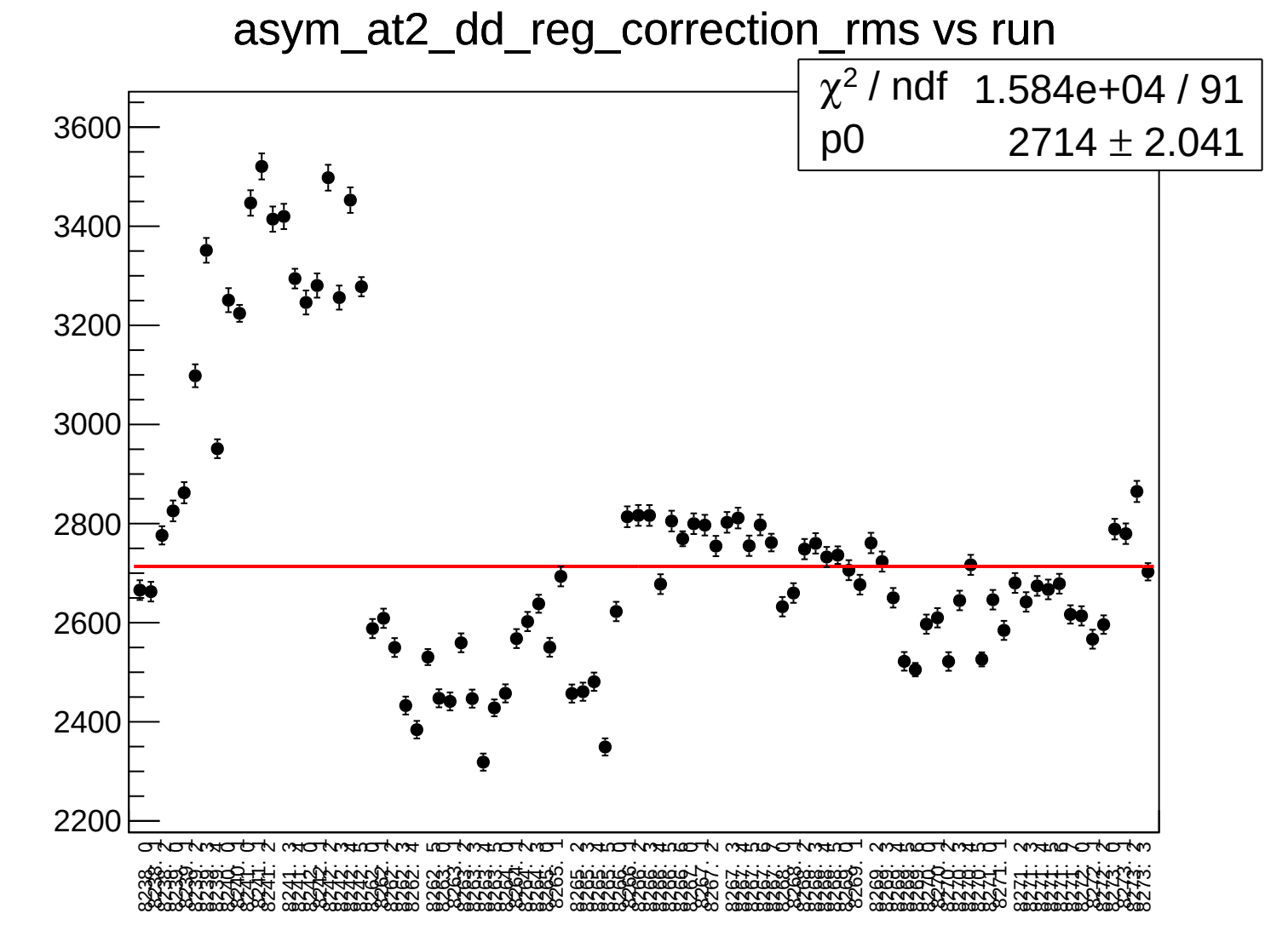

reg_asym_at2_dd_mean vs run
χ² / ndf 98.61 / 91
p0 125.1 ± 1939
pull
Entries 92
Mean 128.6
Std Dev 0

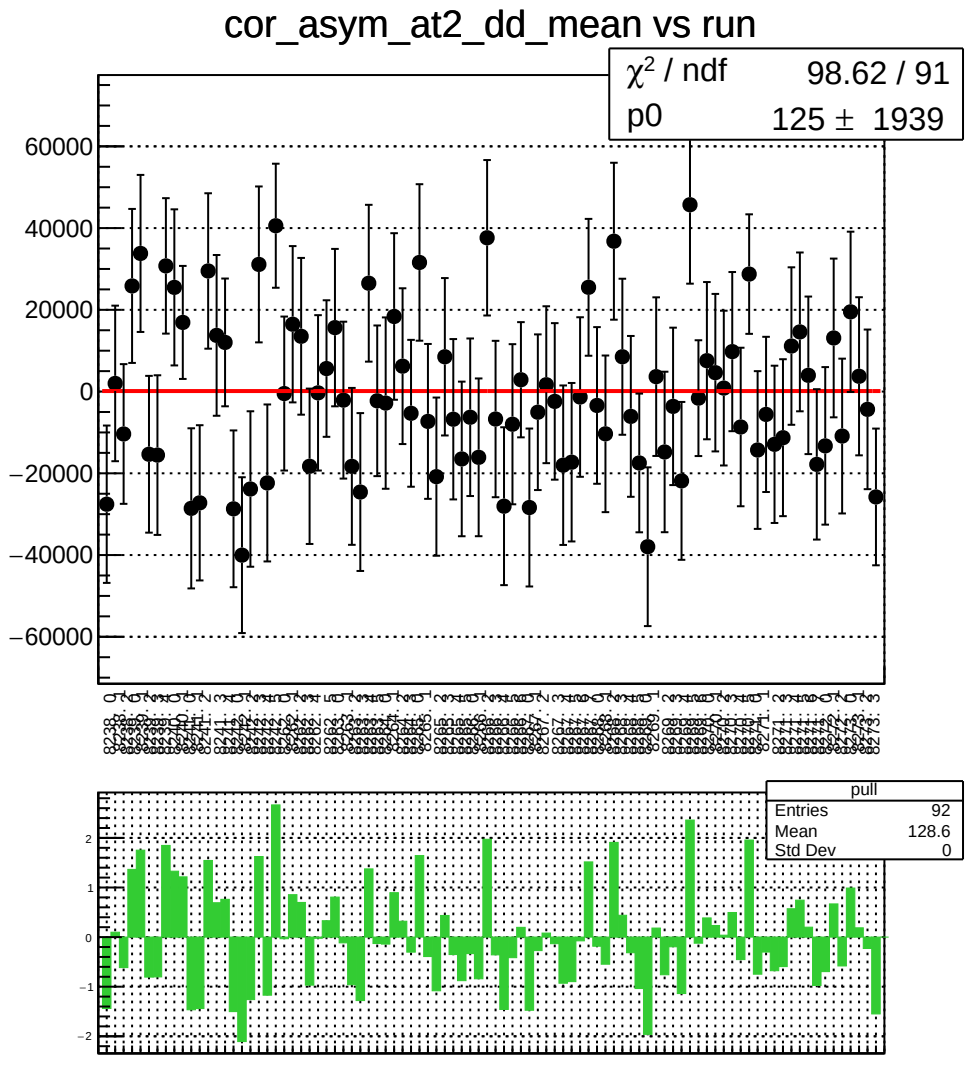

pull1D
Entries 92
Mean −0.02306
Std Dev 1.035

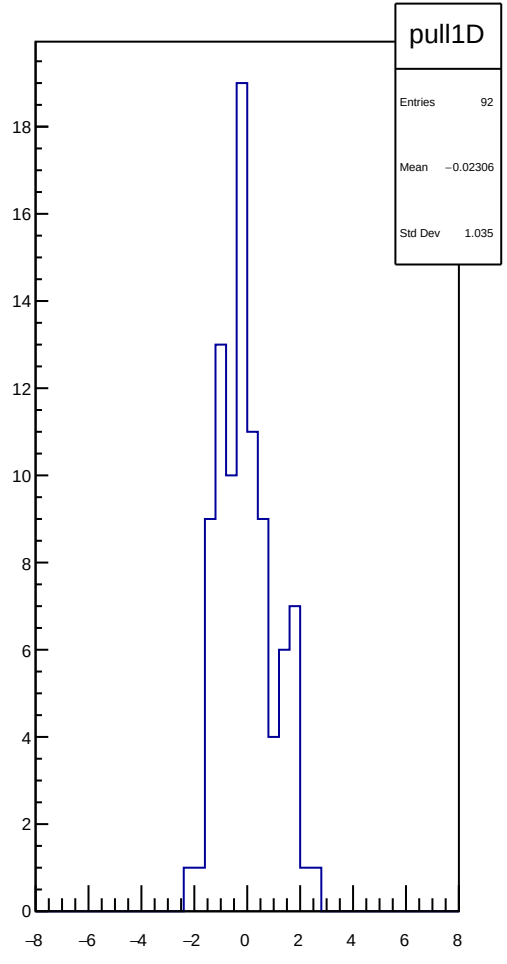

reg_asym_at2_dd_rms vs run
χ² / ndf 339.3 / 91
p0 1831 ± 1.371
2000
1950
1900
1850
1800

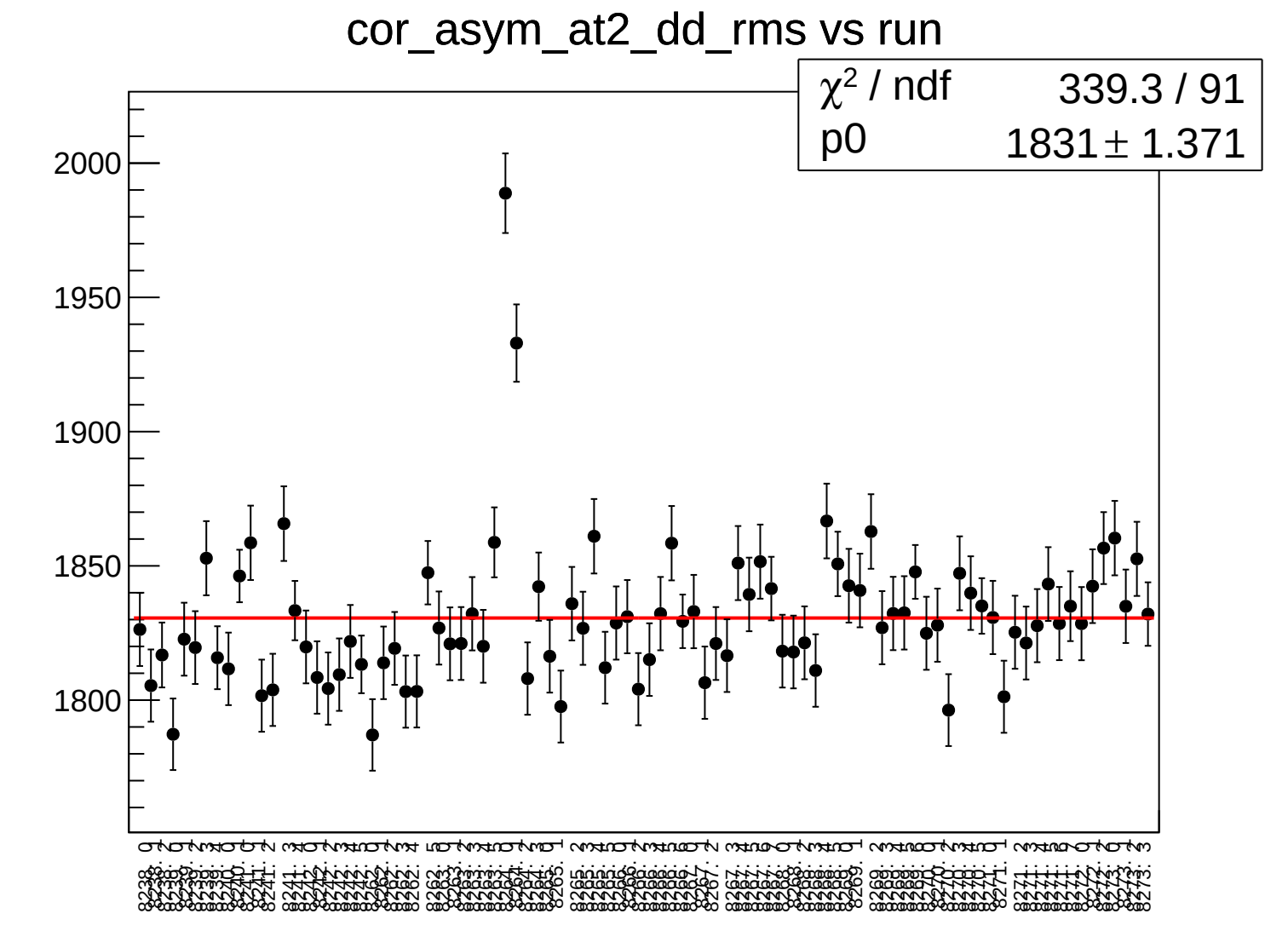

asym_at2_dd_reg_correction_mean vs run
$\chi^2$ / ndf 66.08 / 91
p0 8373 ± 2887
×10^3
pull
Entries 92
Mean −711.4
Std Dev 0

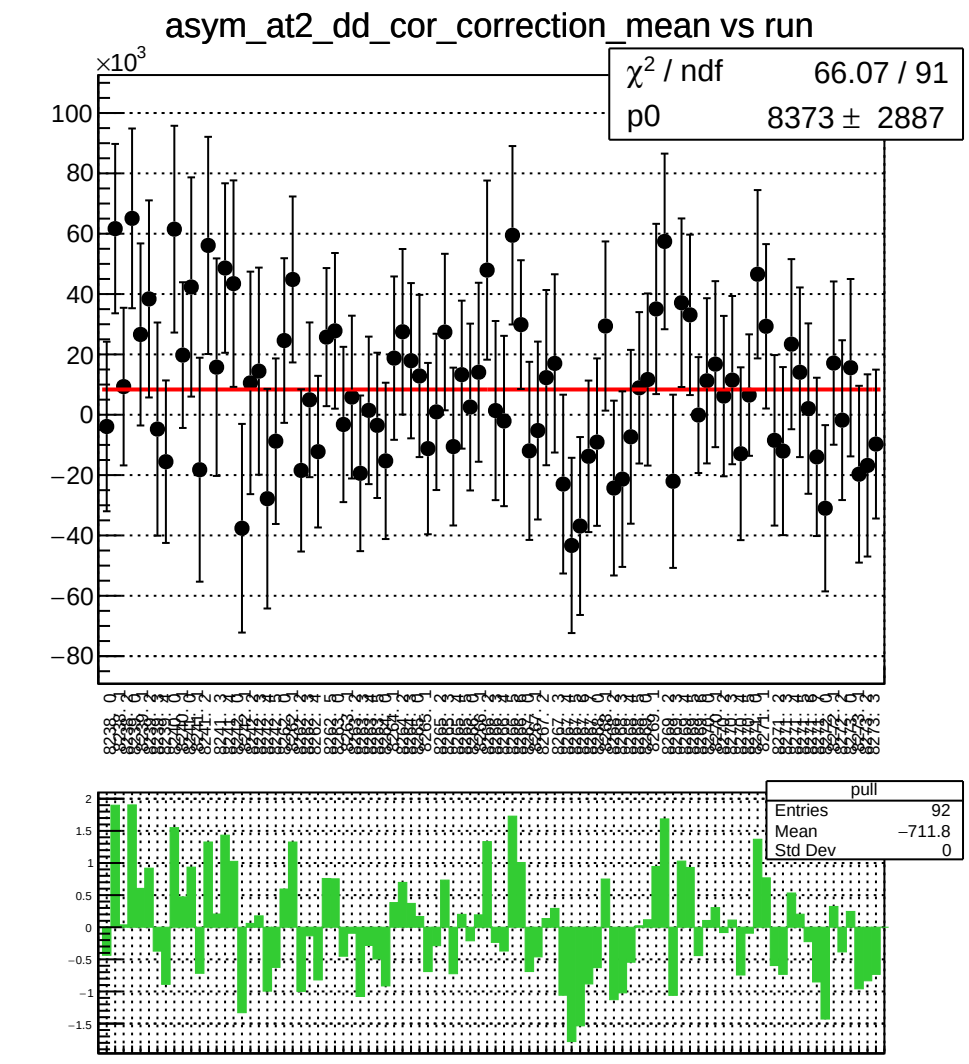

pull1D
Entries 92
Mean 0.006862
Std Dev 0.8475

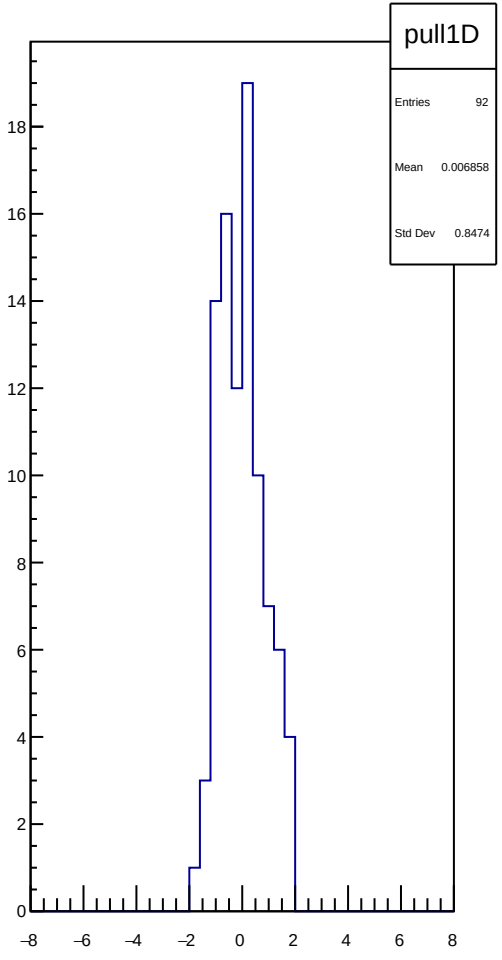

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 1.584e+04 / 91
p0 2714 ± 2.041
3600
3400
3200
3000
2800
2600
2400
2200

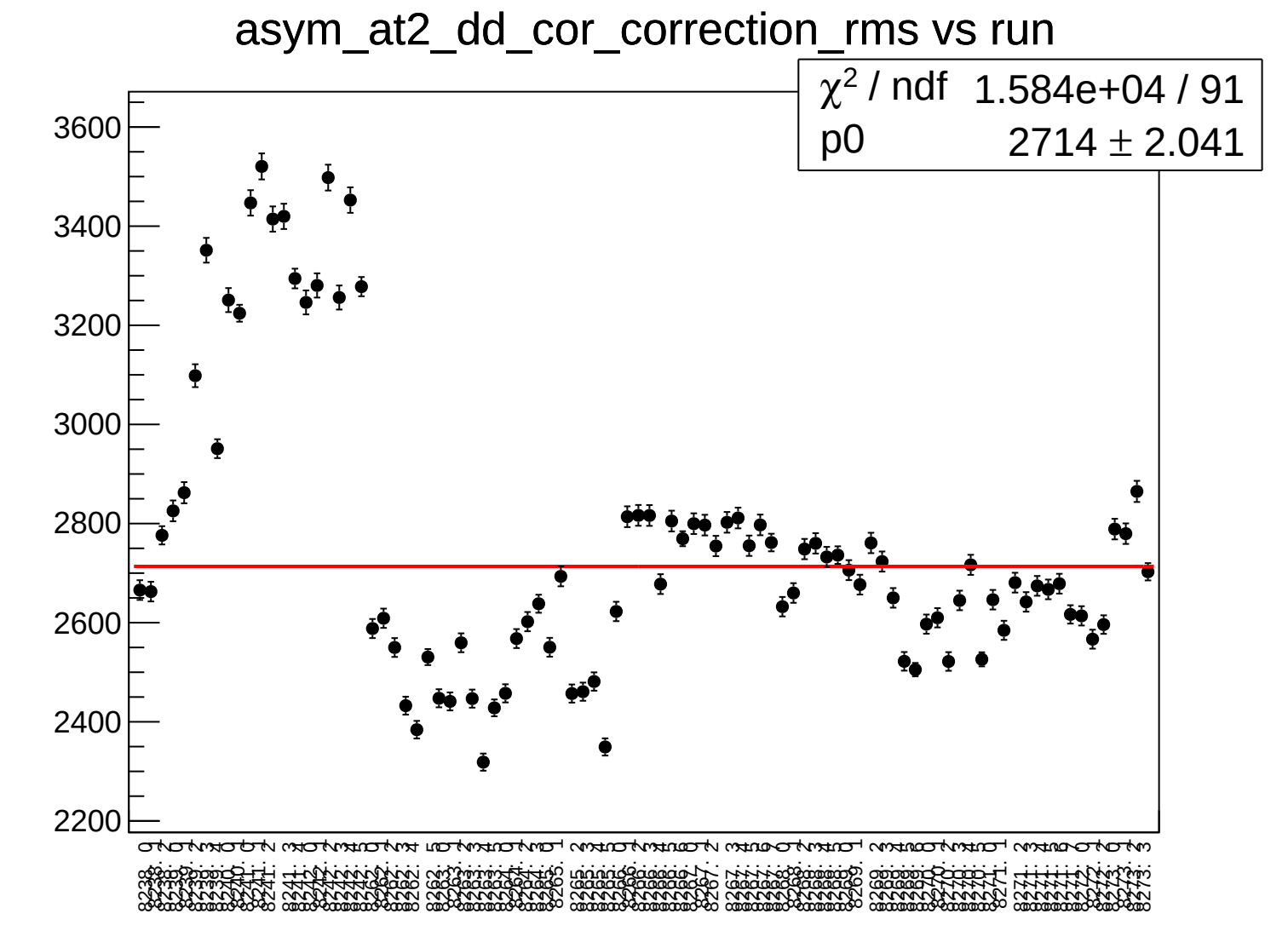

cor_asym_at2_dd_mean vs run
χ² / ndf 98.62 / 91
p0 125 ± 1939
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 128.6
Std Dev 0
2
1
0
−1
−2

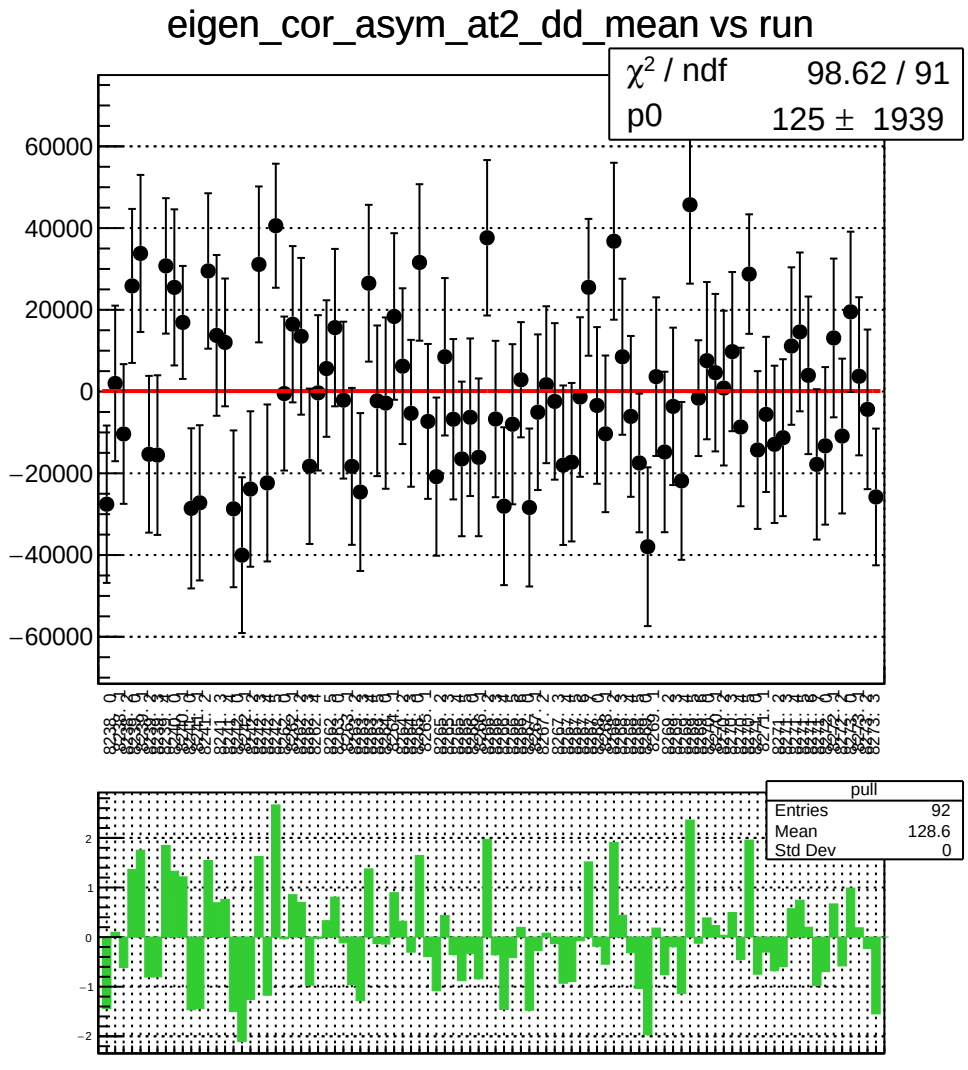

pull1D
Entries 92
Mean −0.02306
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

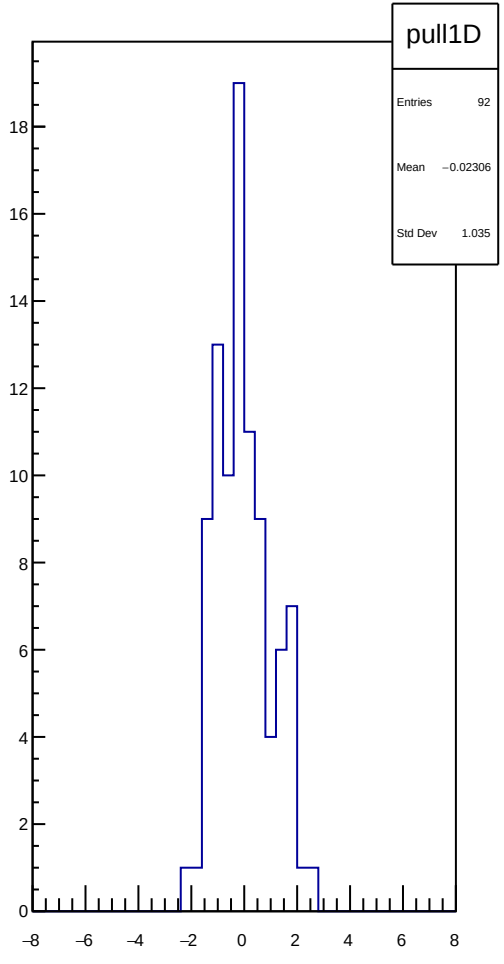

cor_asym_at2_dd_rms vs run
$\chi^2$ / ndf 339.3 / 91
p0 1831 ± 1.371
2000
1950
1900
1850
1800

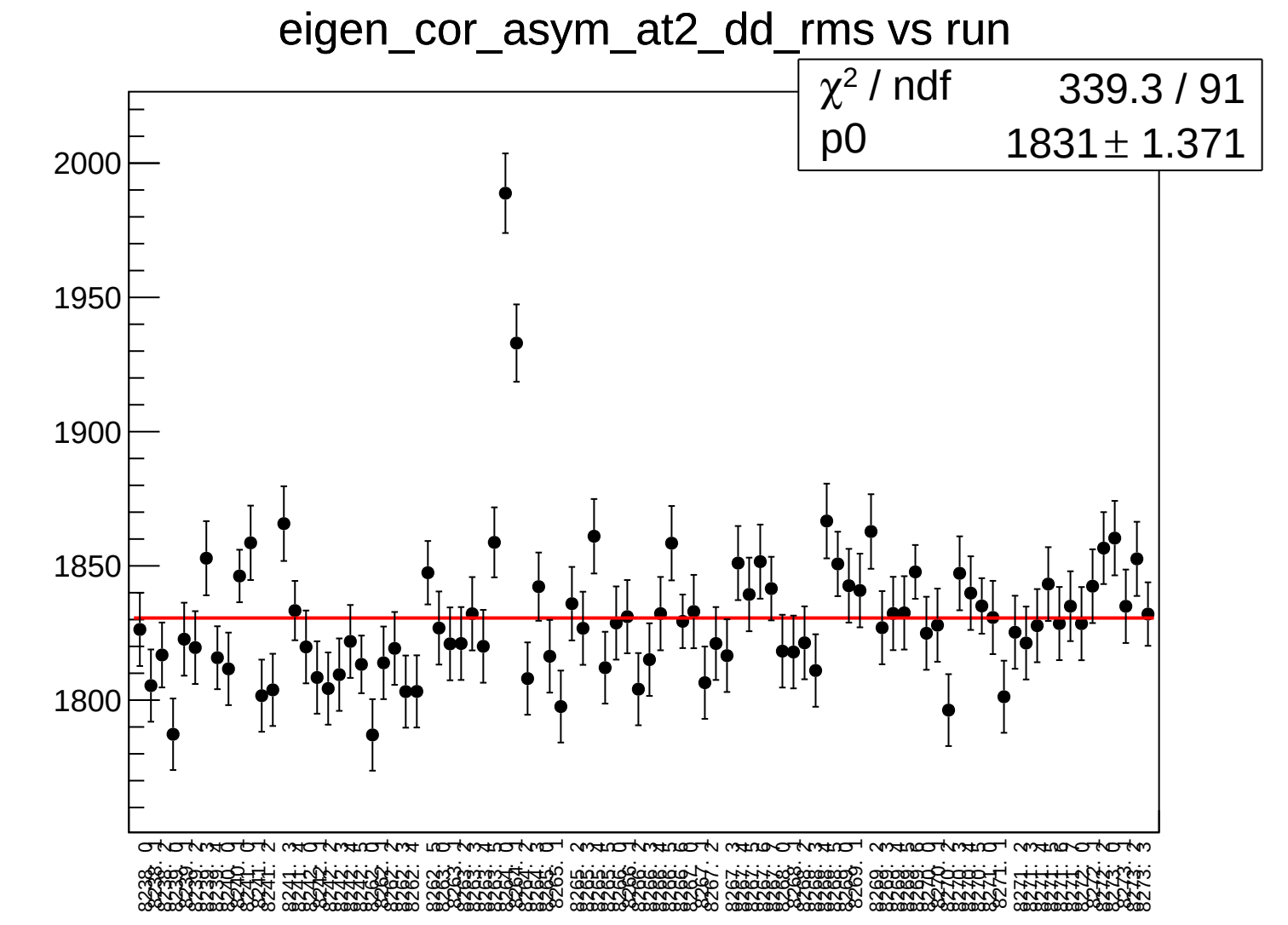

asym_at2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 66.07 / 91
p0 8373 ± 2887
pull
Entries 92
Mean −711.8
Std Dev 0


pull1D
Entries 92
Mean 0.006858
Std Dev 0.8474

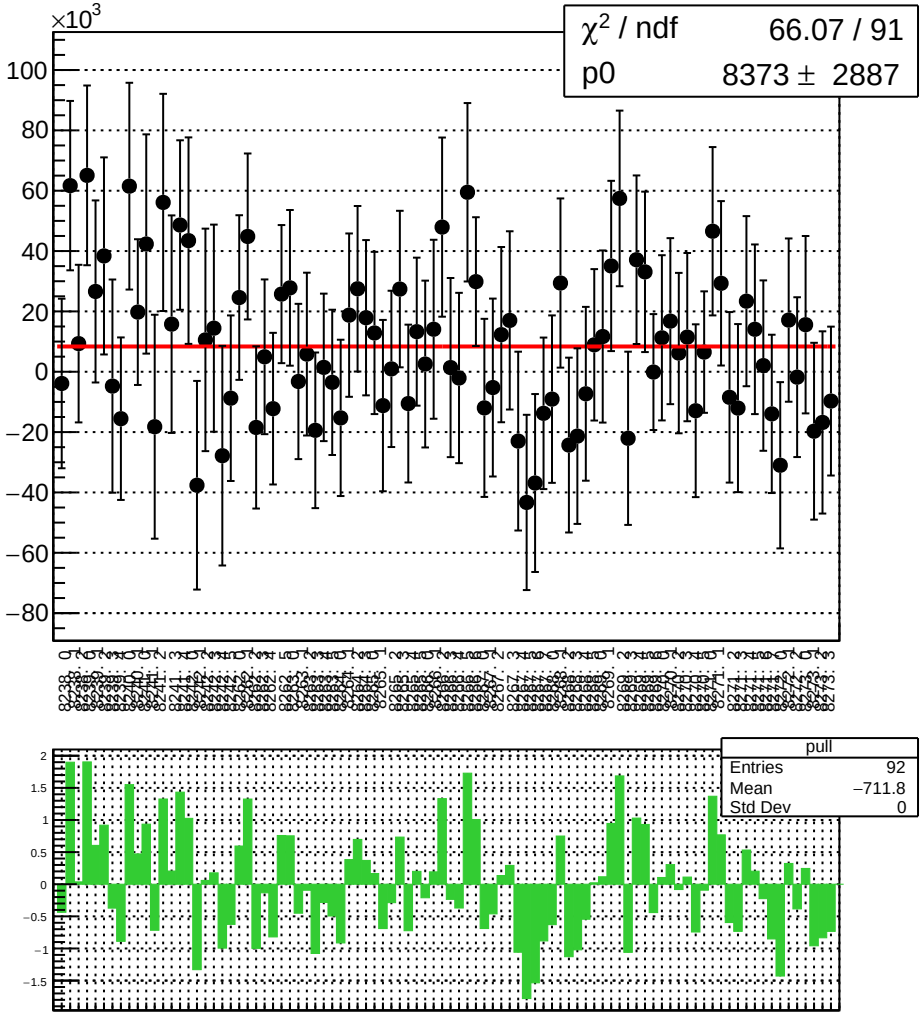

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 1.584e+04 / 91
p0 2714 ± 2.041
3600
3400
3200
3000
2800
2600
2400
2200

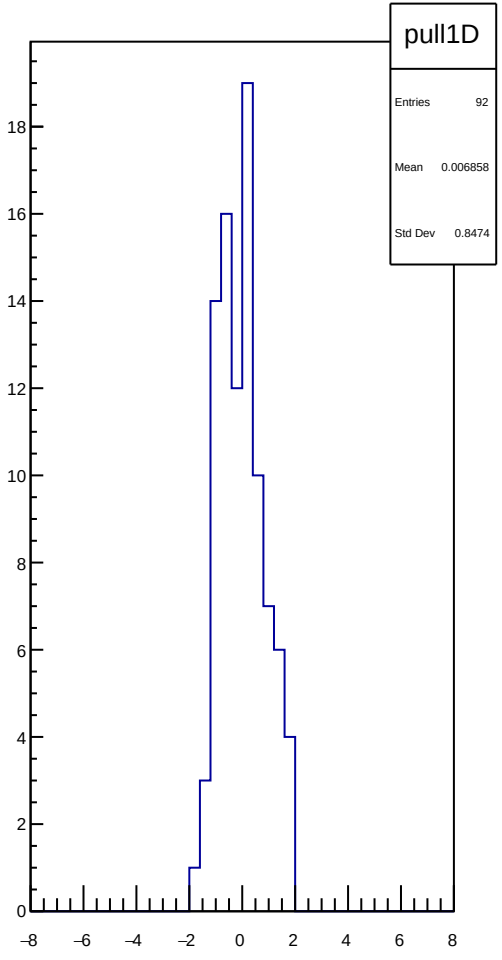

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 98.62 / 91
p0 125 ± 1939
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 128.6
Std Dev 0
2
1
0
−1
−2

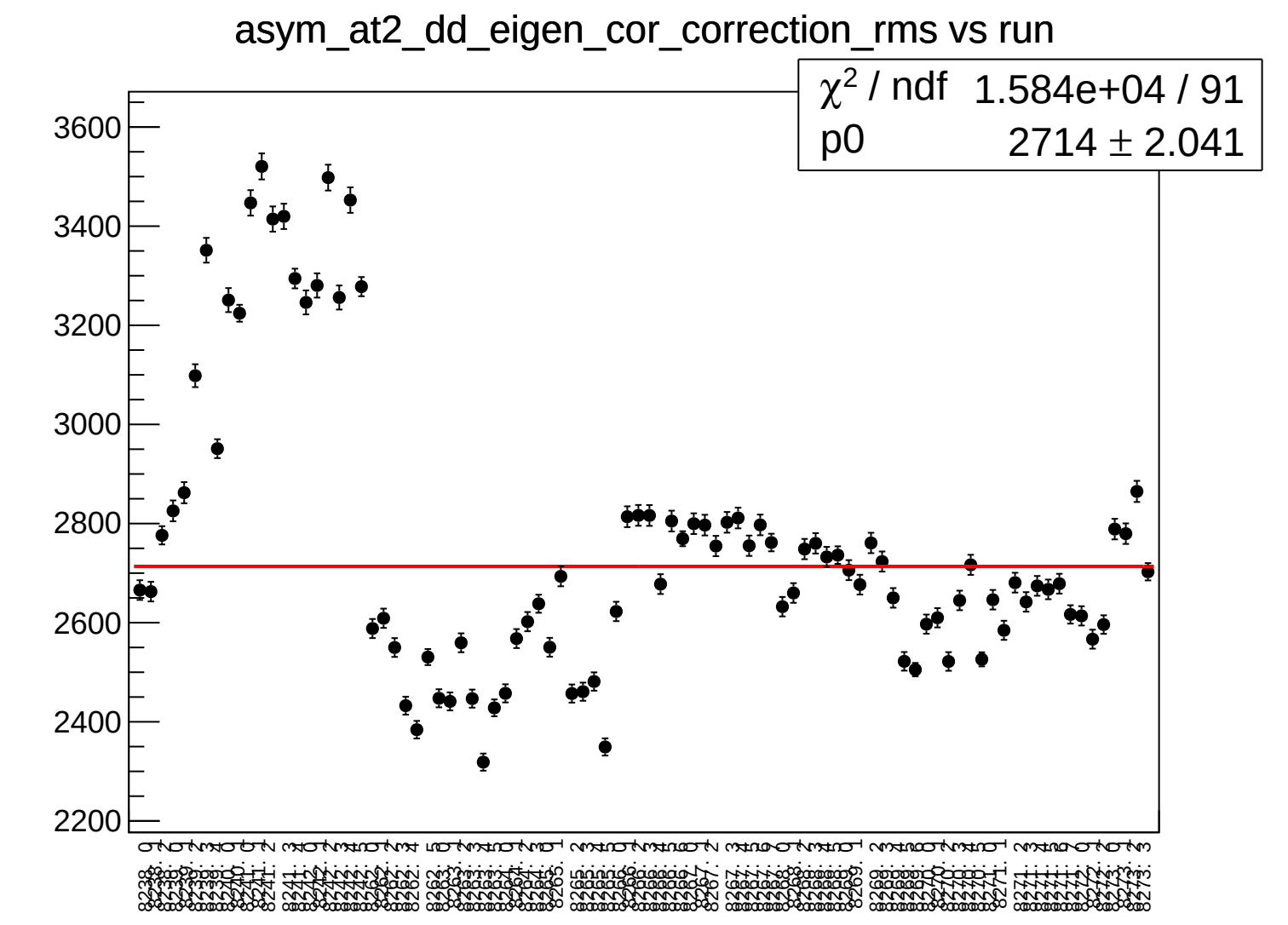

pull1D
Entries 92
Mean −0.02306
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

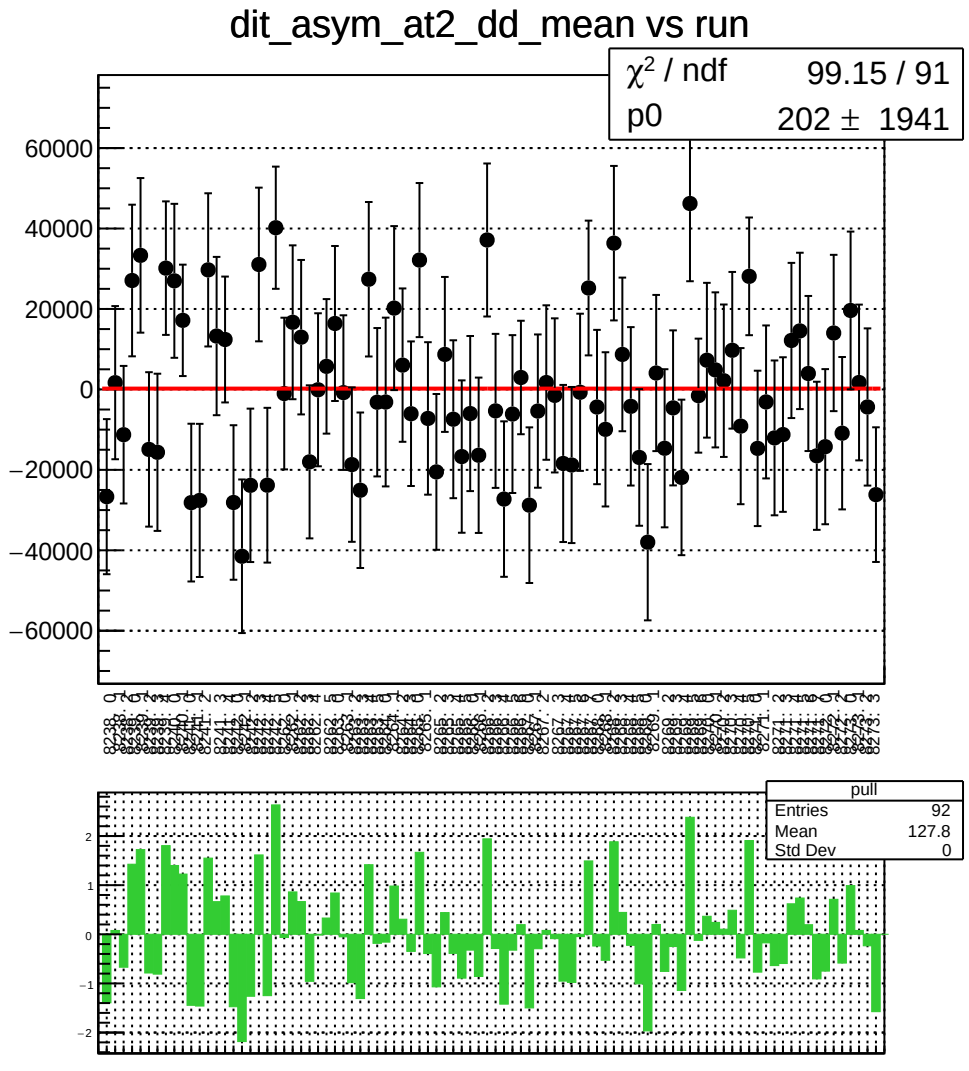

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 339.3 / 91
p0 1831 ± 1.371
2000
1950
1900
1850
1800

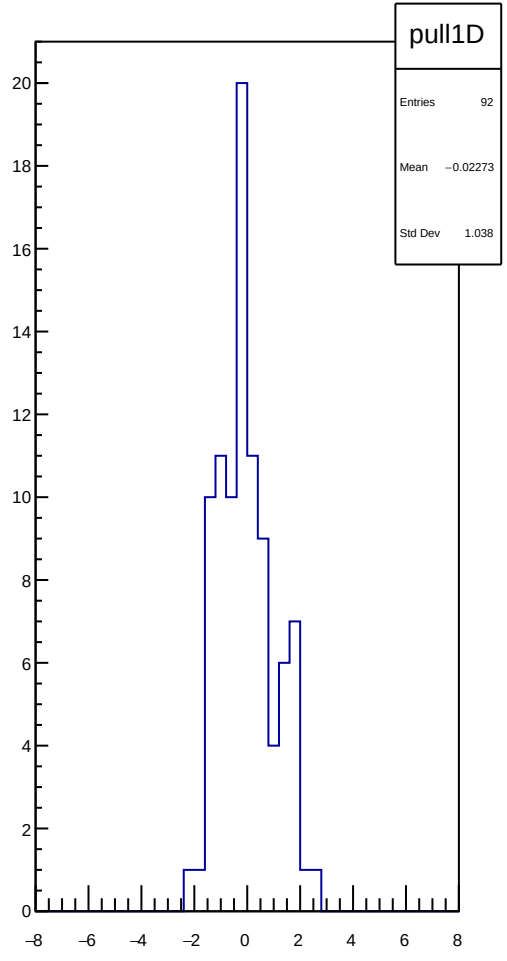
asym_at2_dd_eigen_cor_correction_mean vs run

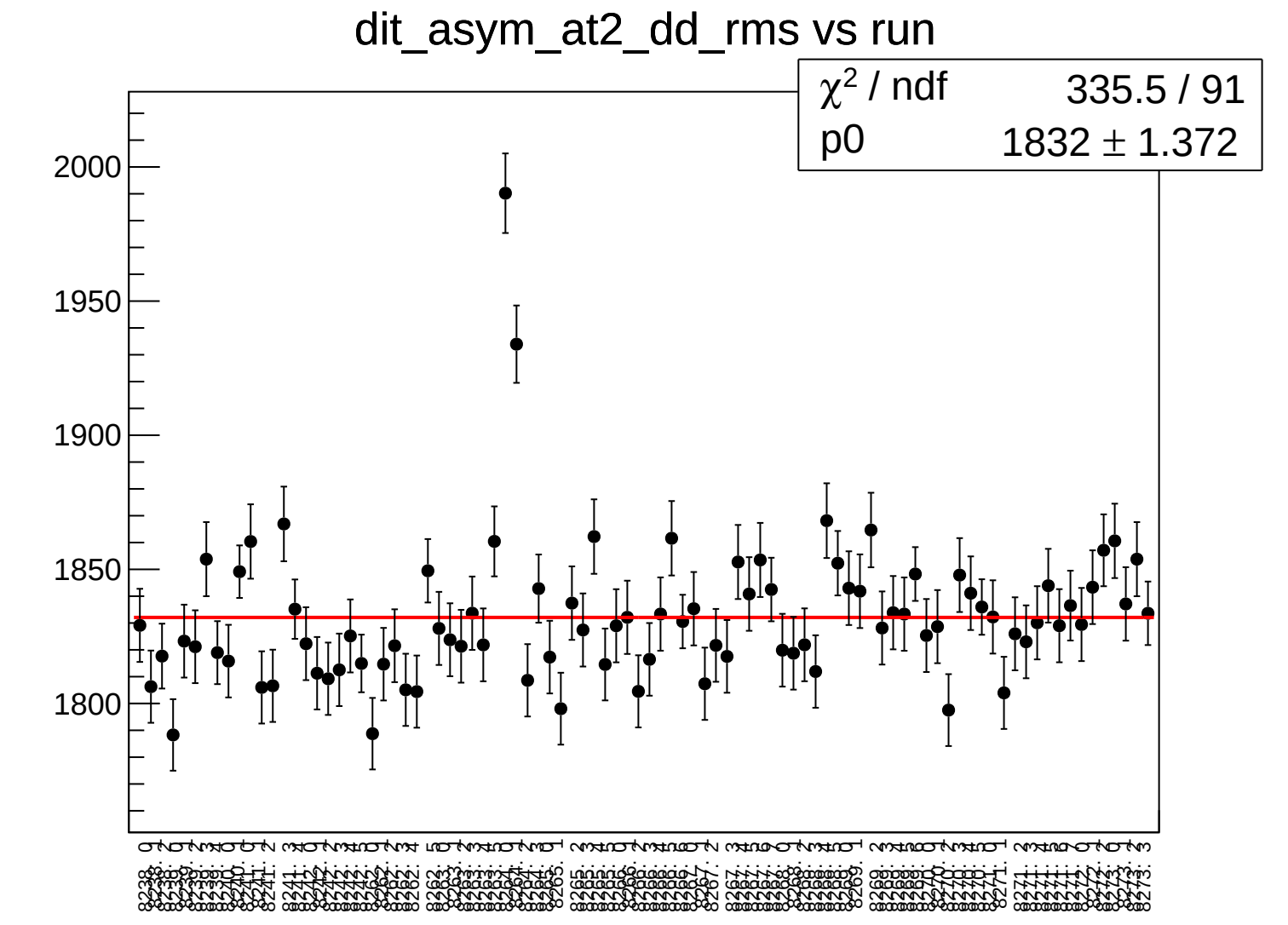


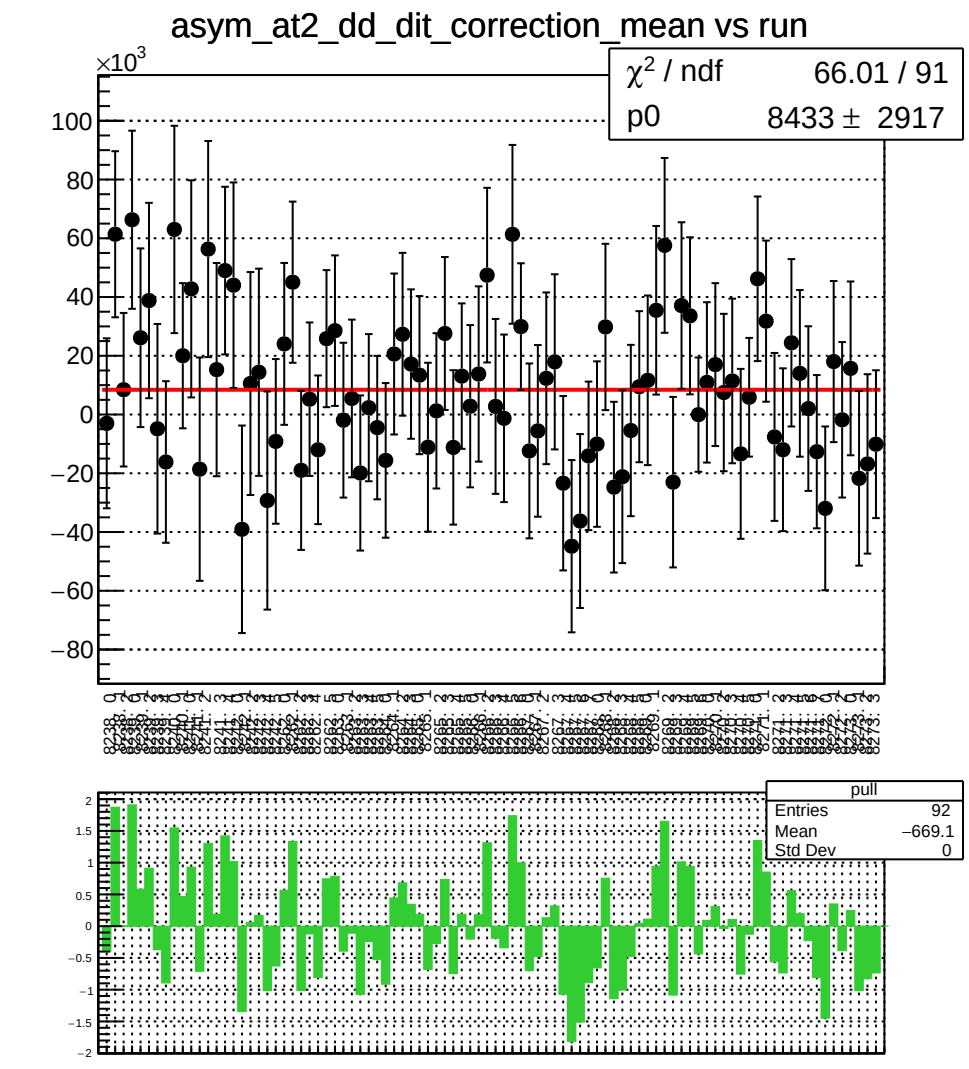



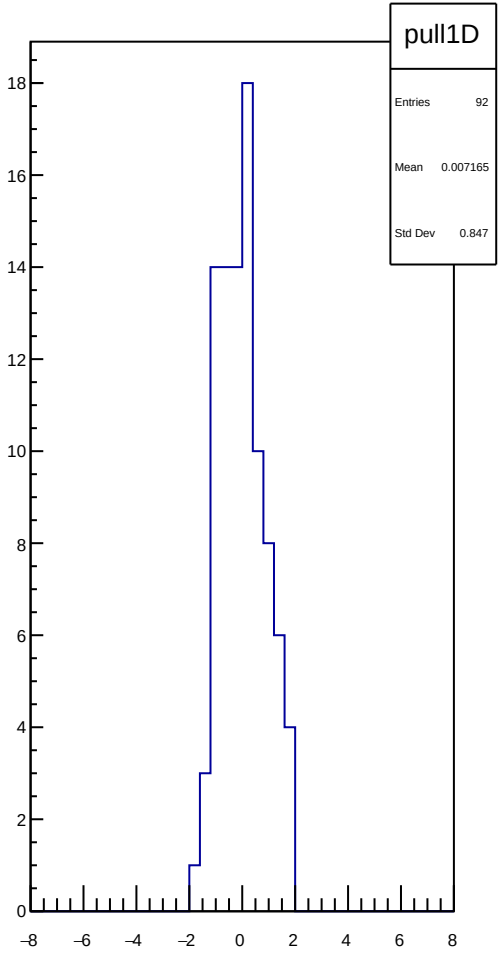

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.584e+04 / 91
p0 2714 ± 2.041
3600
3400
3200
3000
2800
2600
2400
2200

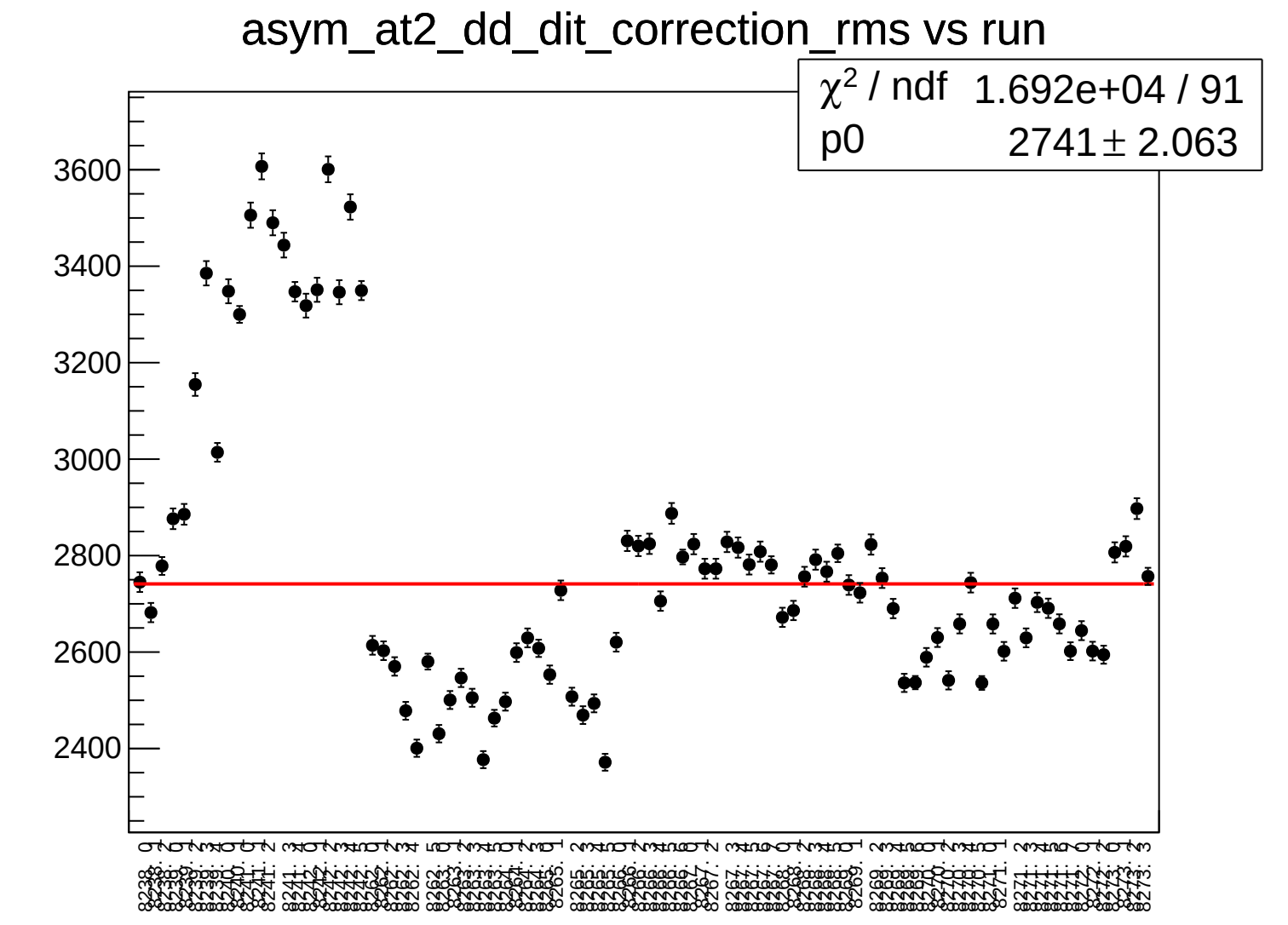

dit_asym_at2_dd_mean vs run
χ² / ndf 99.15 / 91
p0 202 ± 1941
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 127.8
Std Dev 0
2
1
0
−1
−2

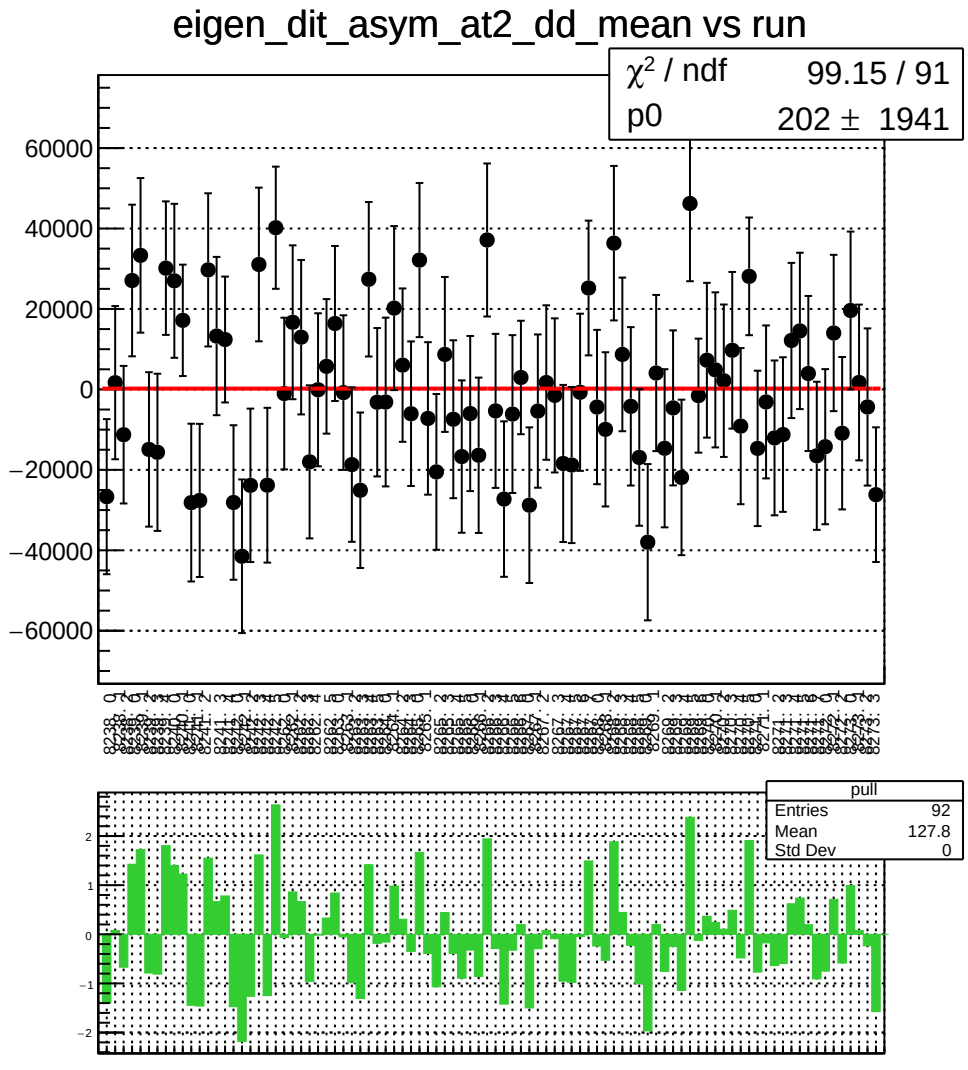

pull1D
Entries 92
Mean −0.02273
Std Dev 1.038
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

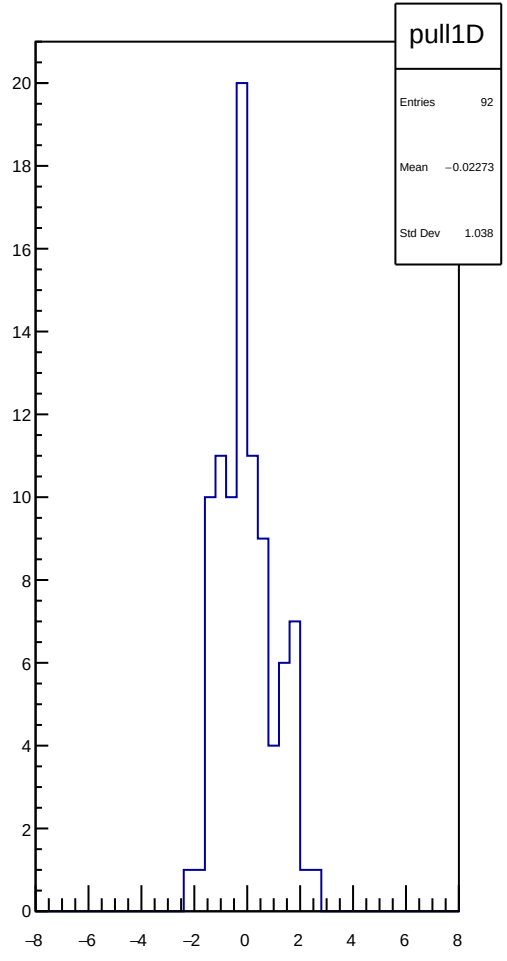

dit_asym_at2_dd_rms vs run
$\chi^2$ / ndf 335.5 / 91
p0 1832 ± 1.372
2000
1950
1900
1850
1800

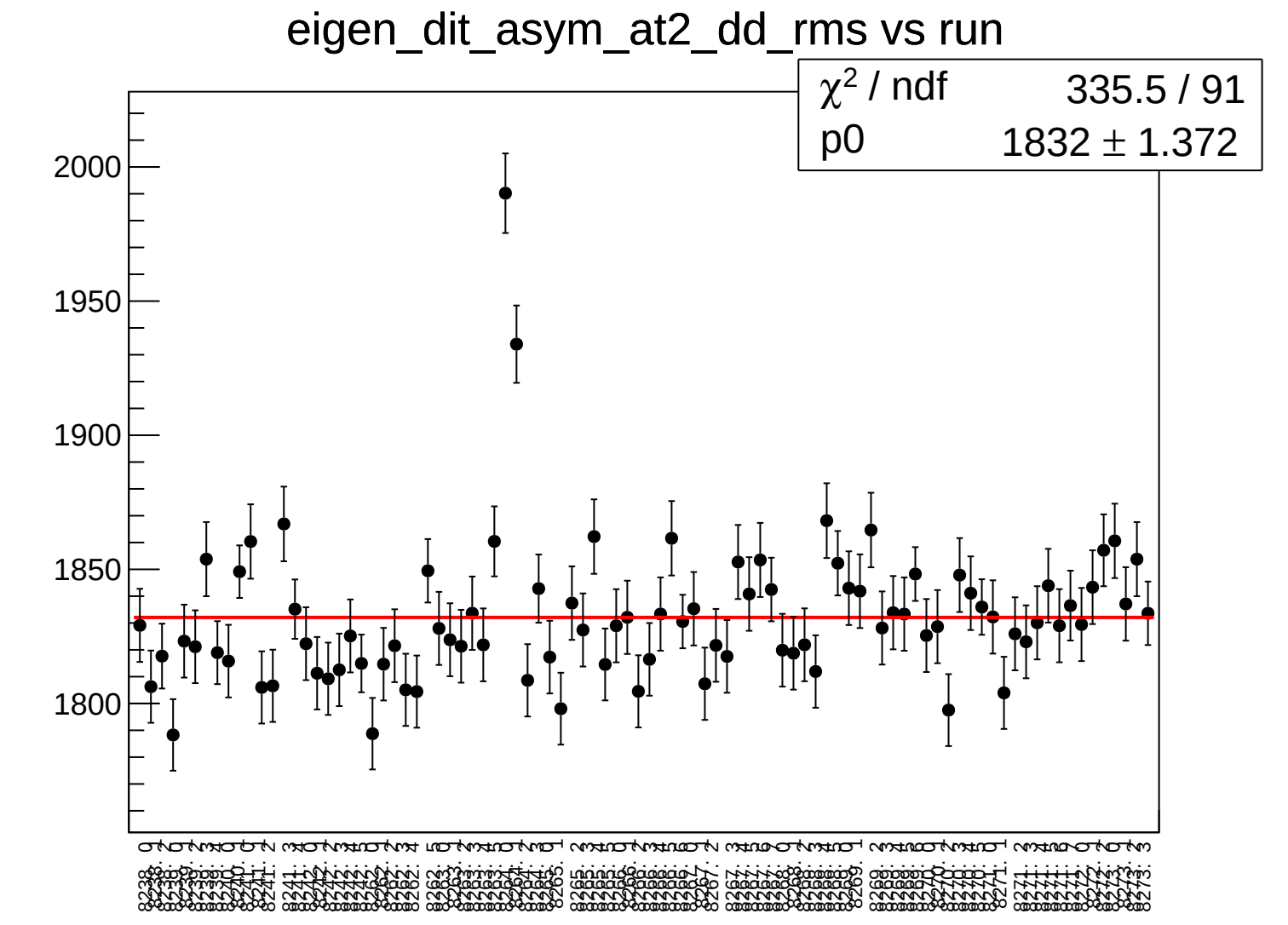

asym_at2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 66.01 / 91
p0 8433 ± 2917
pull
Entries 92
Mean −669.1
Std Dev 0

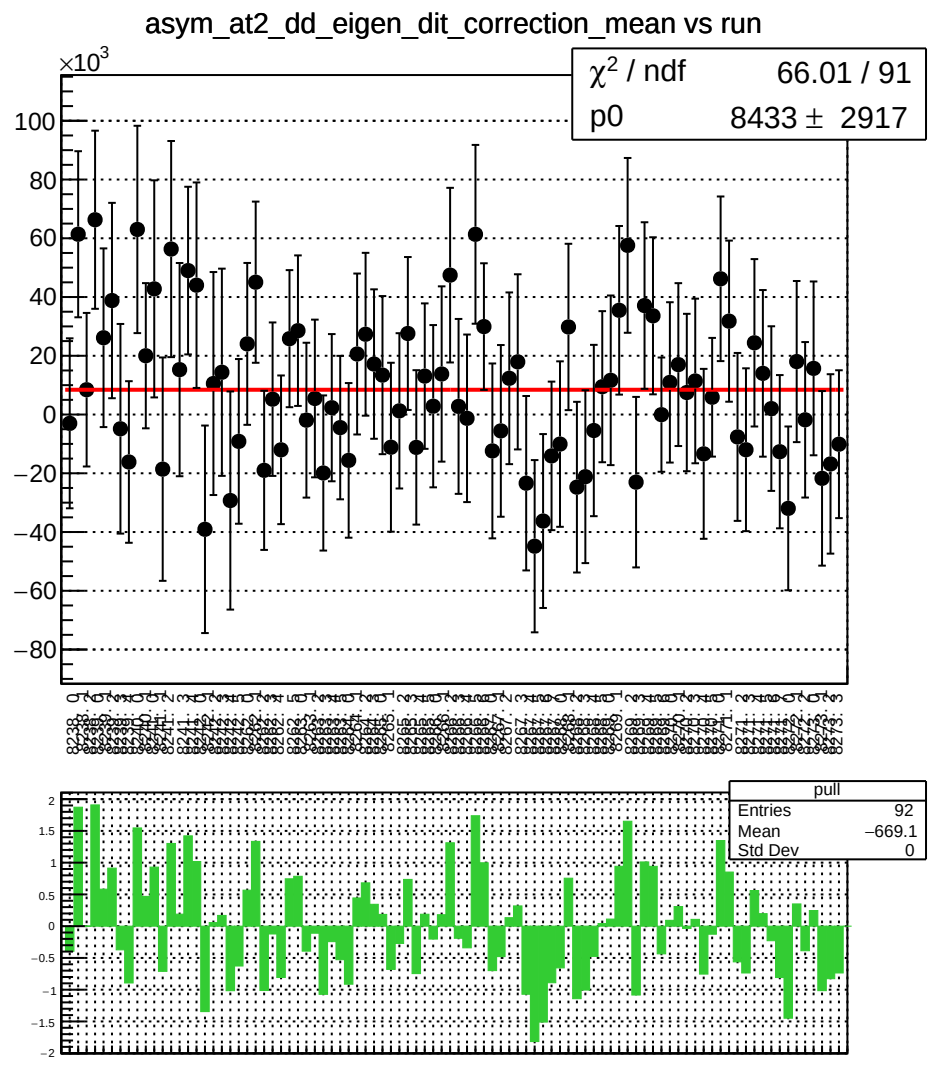

pull1D
Entries 92
Mean 0.007165
Std Dev 0.847

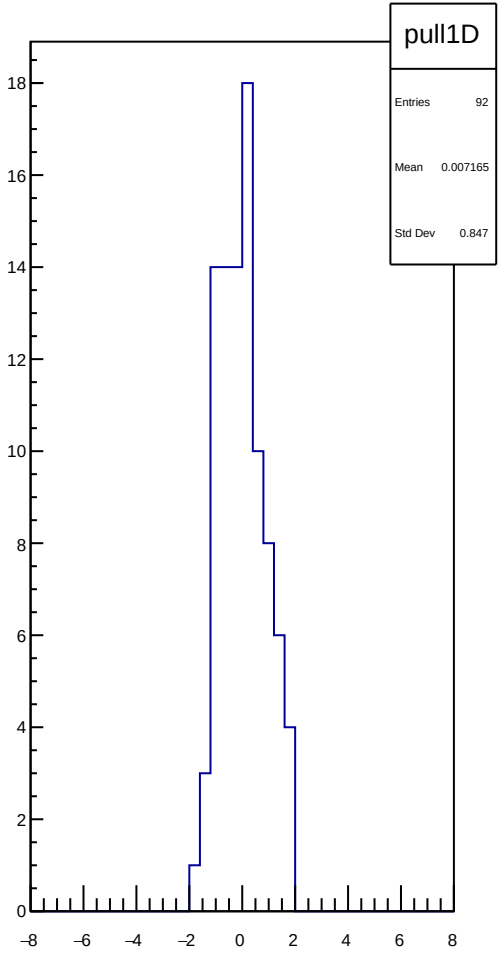

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 1.692e+04 / 91
p0 2741 ± 2.063
3600
3400
3200
3000
2800
2600
2400

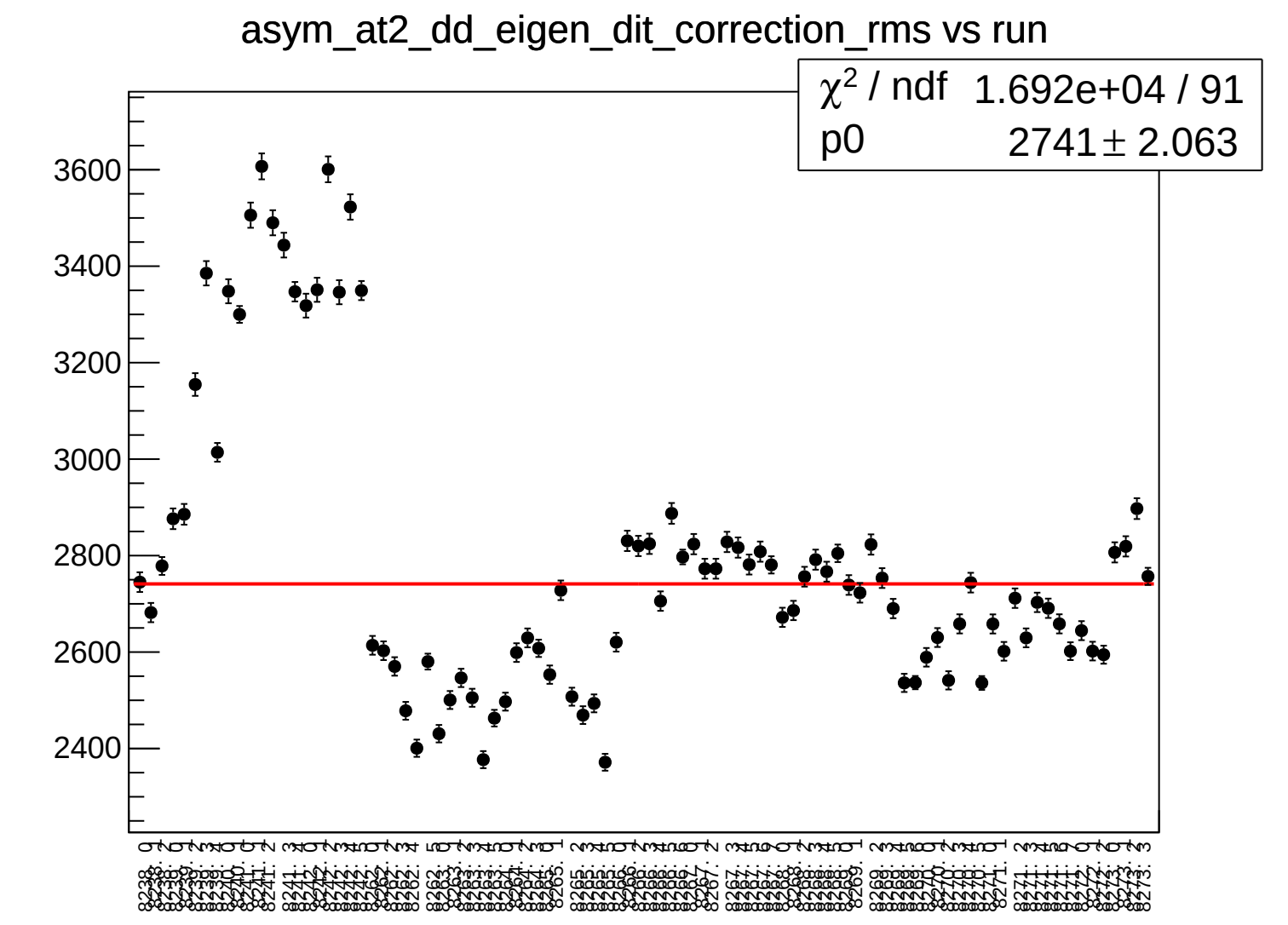

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 99.15 / 91
p0 202 ± 1941
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 127.8
Std Dev 0
2
1
0
−1
−2

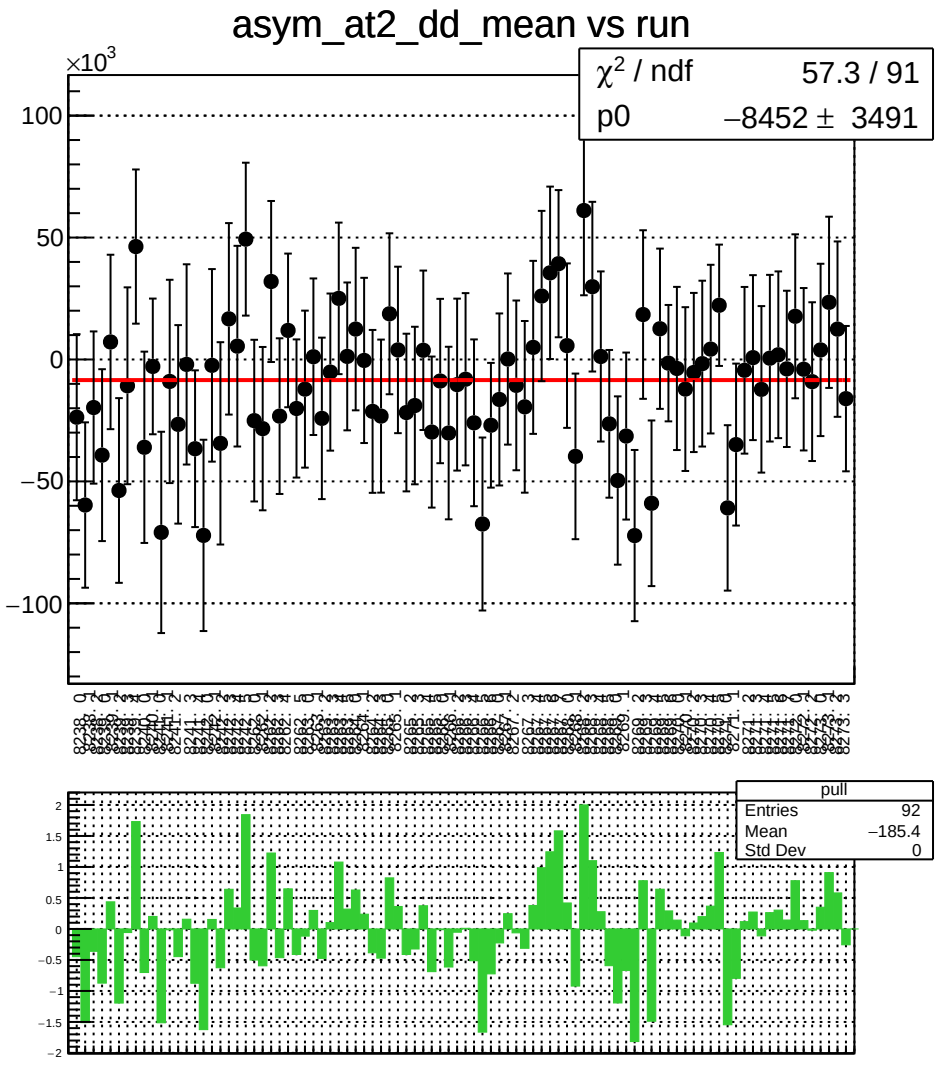

pull1D
Entries 92
Mean −0.02273
Std Dev 1.038
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

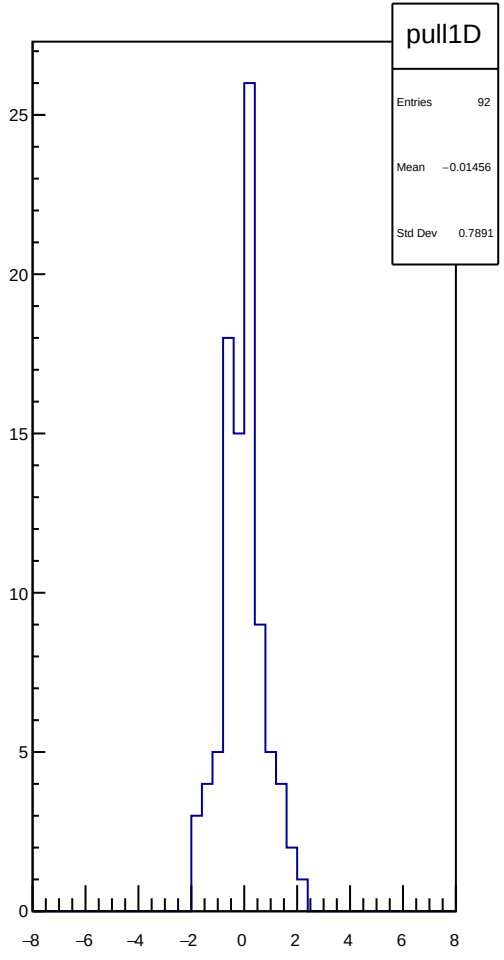

eigen_dit_asym_at2_dd_rms vs run
$\chi^2$ / ndf 335.5 / 91
p0 1832 ± 1.372
2000
1950
1900
1850
1800

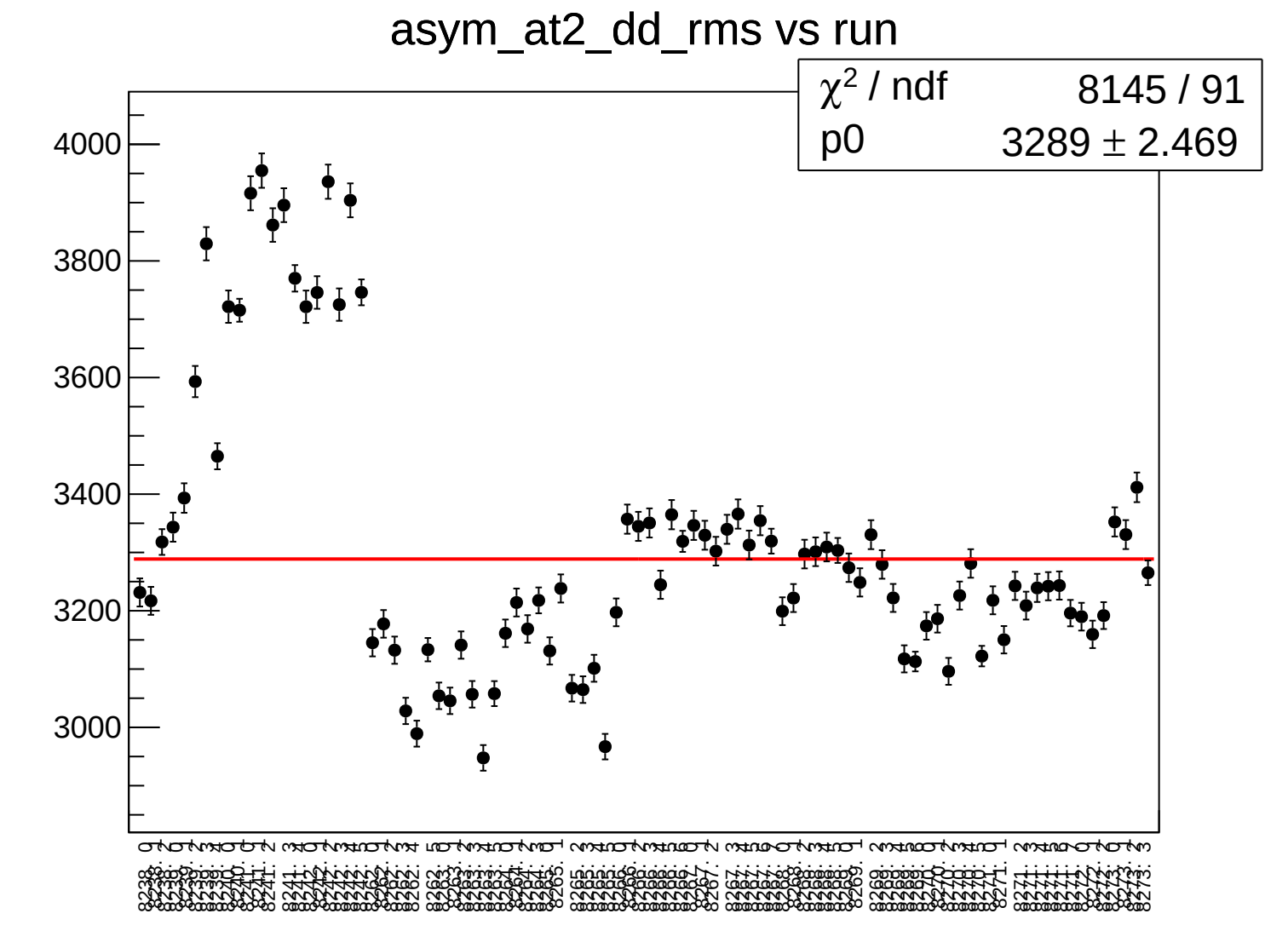

asym_at2_dd_eigen_dit_correction_mean vs run
$\chi^2$ / ndf 66.01 / 91
p0 8433 ± 2917
×10^3
pull
Entries 92
Mean −669.1
Std Dev 0

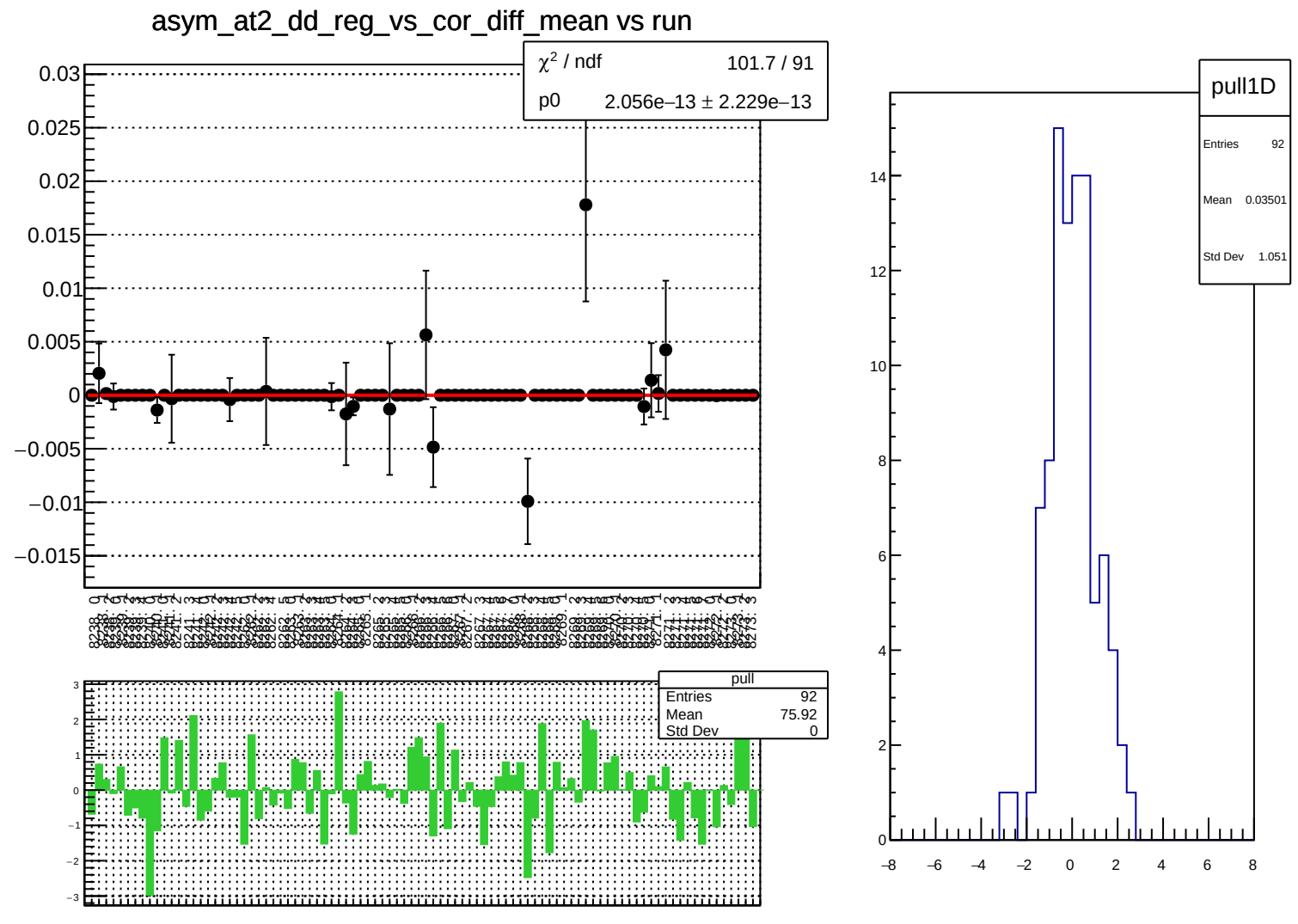

pull1D
Entries 92
Mean 0.007165
Std Dev 0.847

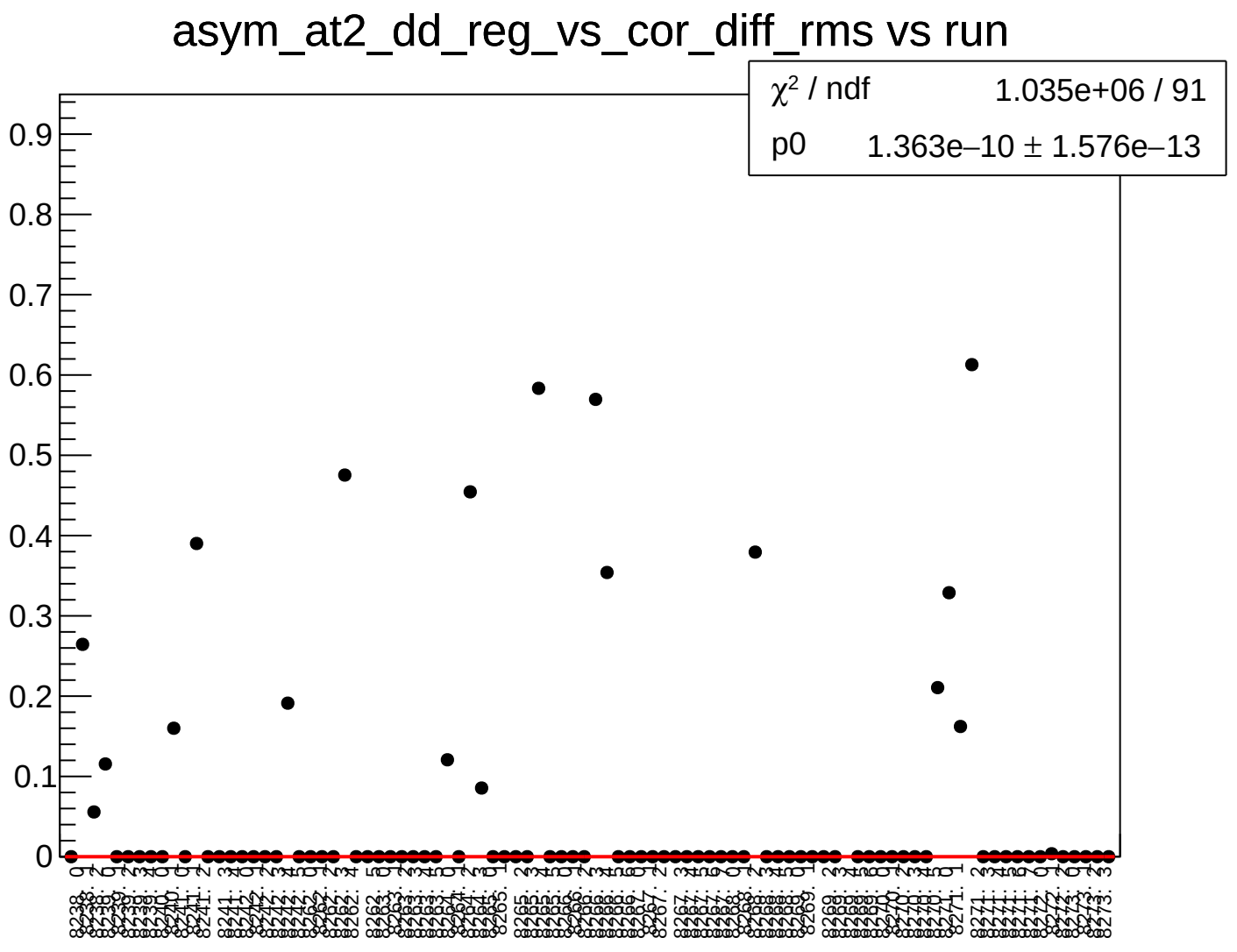

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.692e+04 / 91
p0 2741 ± 2.063
3600
3400
3200
3000
2800
2600
2400

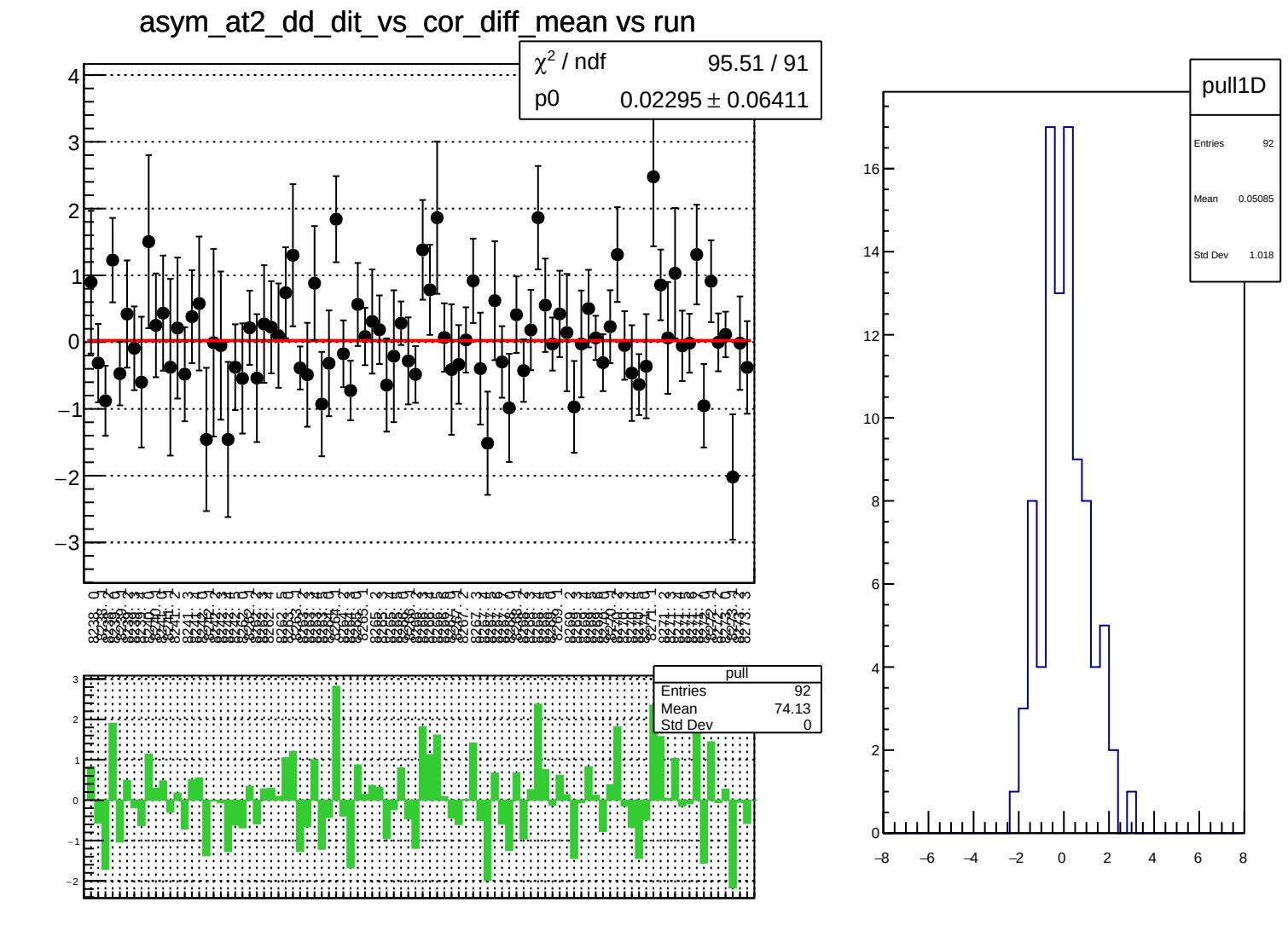

asym_at2_dd_mean vs run
×10^3
χ² / ndf 57.3 / 91
p0 −8452 ± 3491
pull
Entries 92
Mean −185.4
Std Dev 0

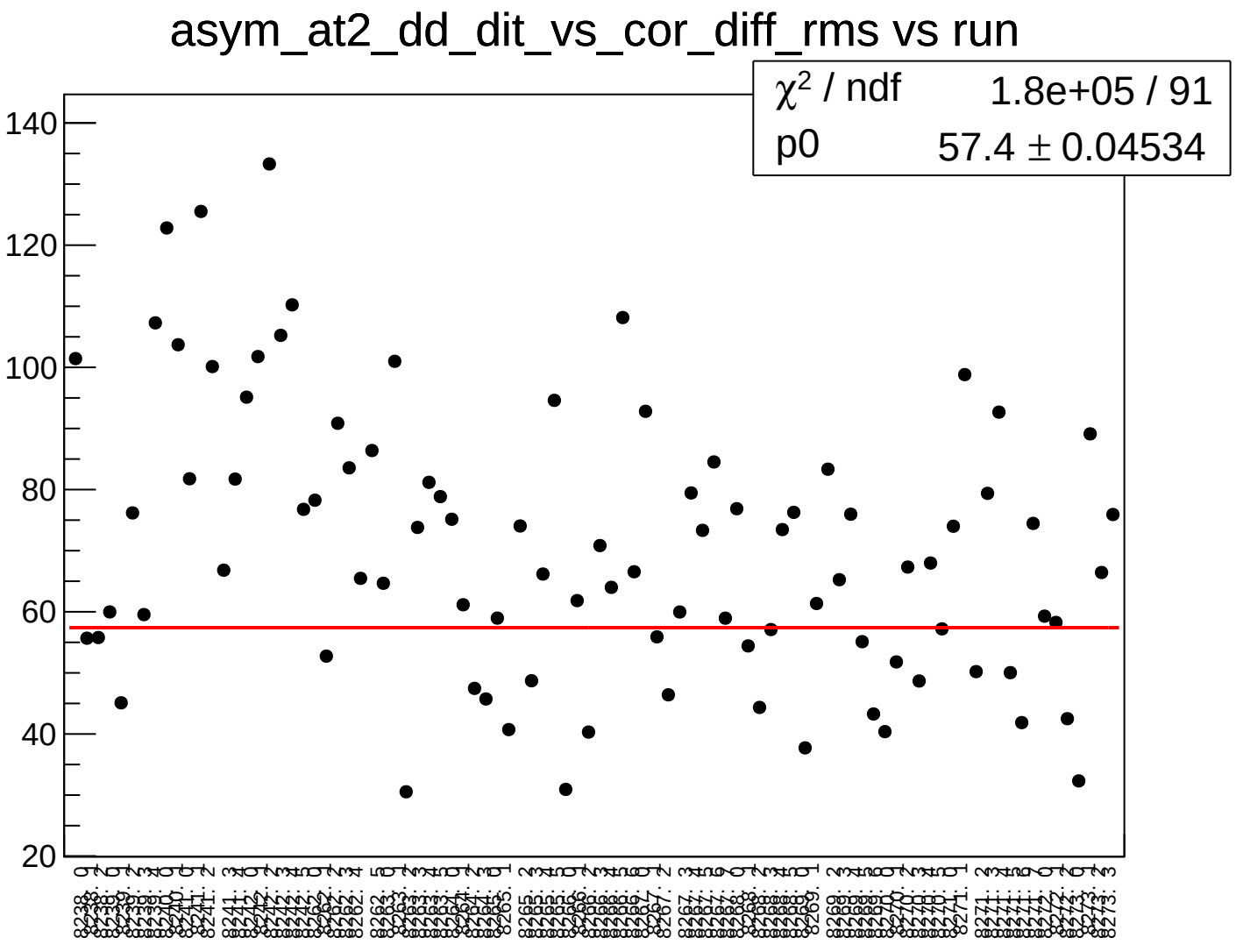

pull1D
Entries 92
Mean −0.01456
Std Dev 0.7891


asym_at2_dd_rms vs run
χ² / ndf 8145 / 91
p0 3289 ± 2.469
4000
3800
3600
3400
3200
3000

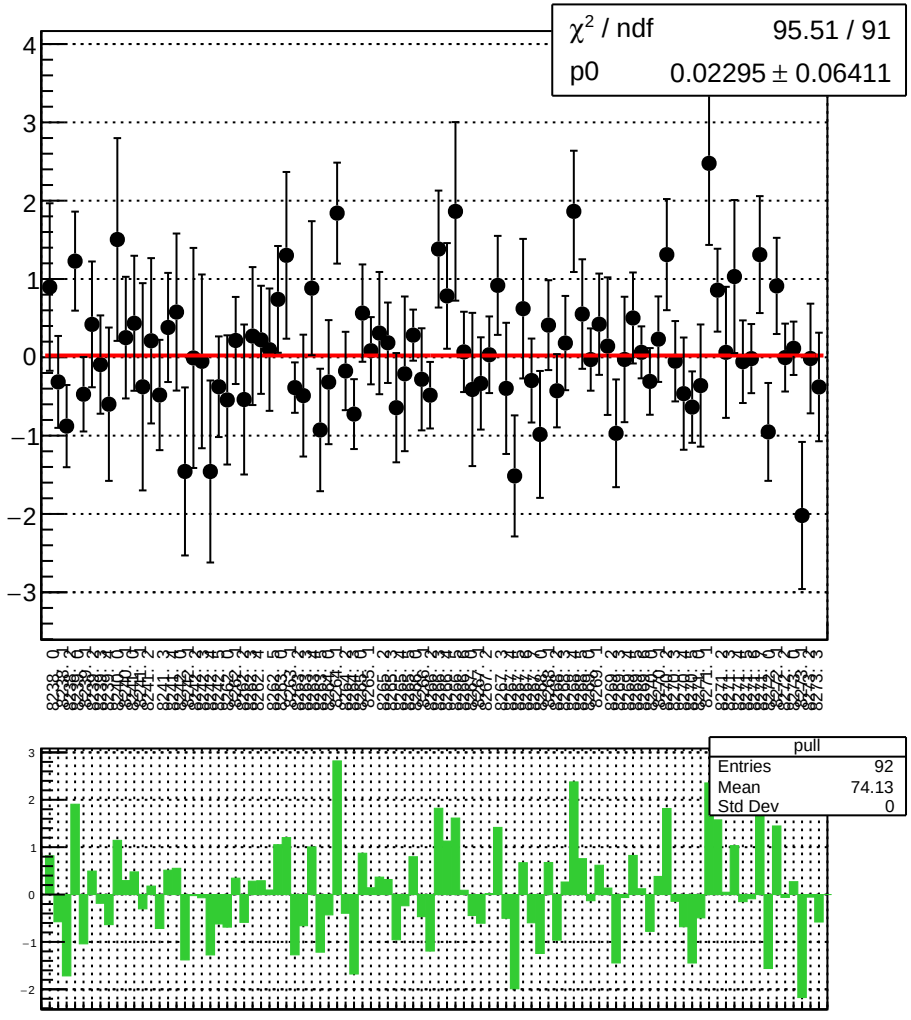

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 91
p0 2.056e−13 ± 2.229e−13
pull
Entries 92
Mean 75.92
Std Dev 0
pull1D
Entries 92
Mean 0.03501
Std Dev 1.051

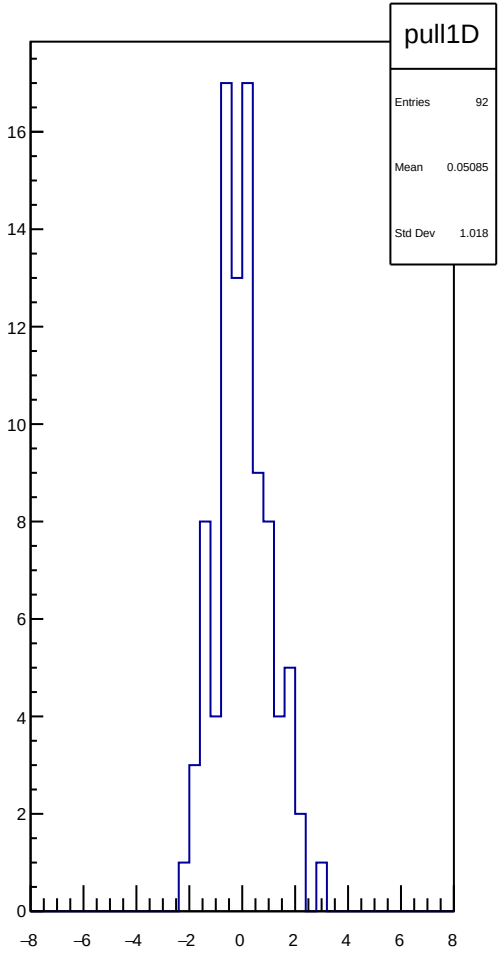

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.035e+06 / 91
p0 1.363e−10 ± 1.576e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

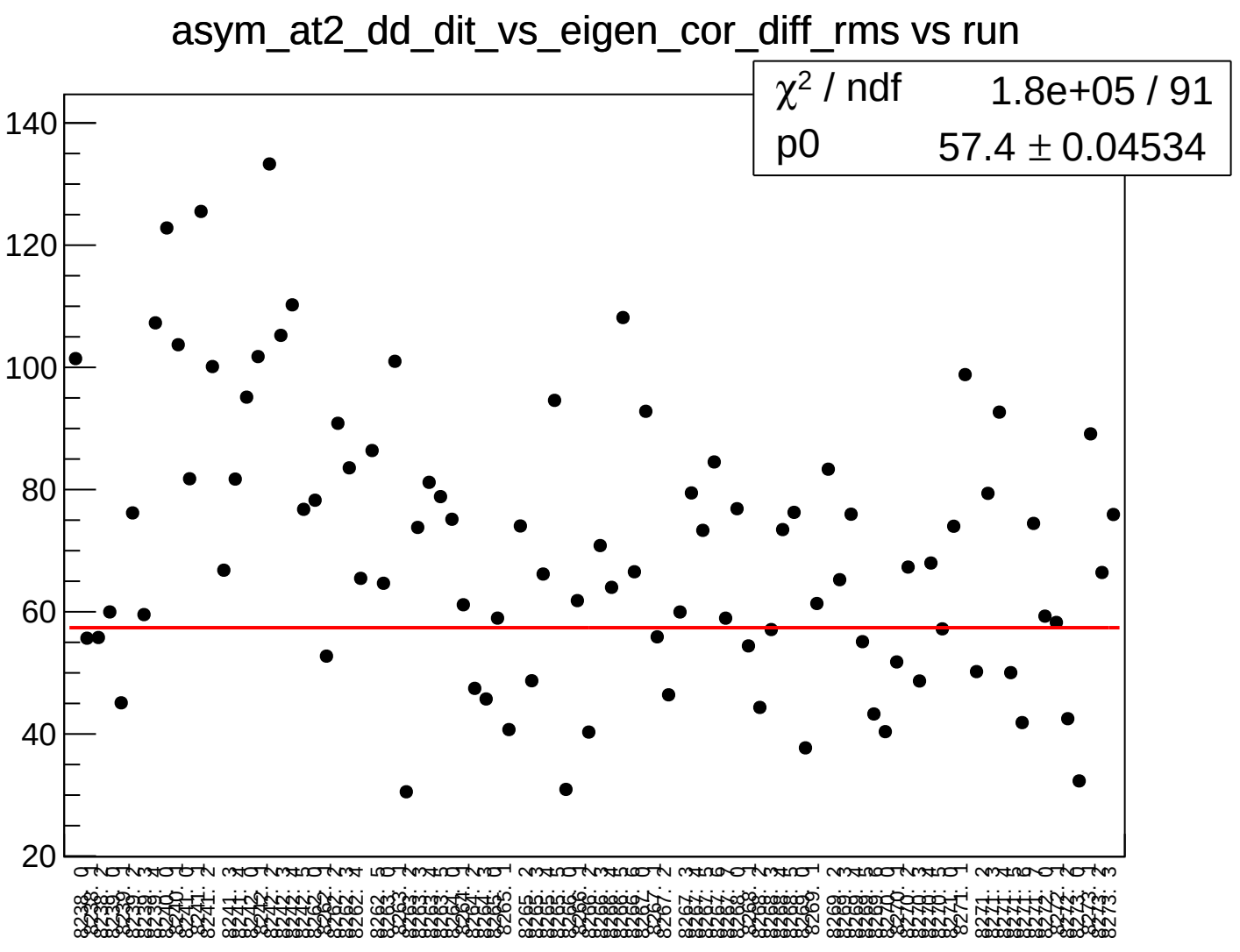

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.51 / 91
p0 0.02295 ± 0.06411
pull
Entries 92
Mean 74.13
Std Dev 0
pull1D
Entries 92
Mean 0.05085
Std Dev 1.018

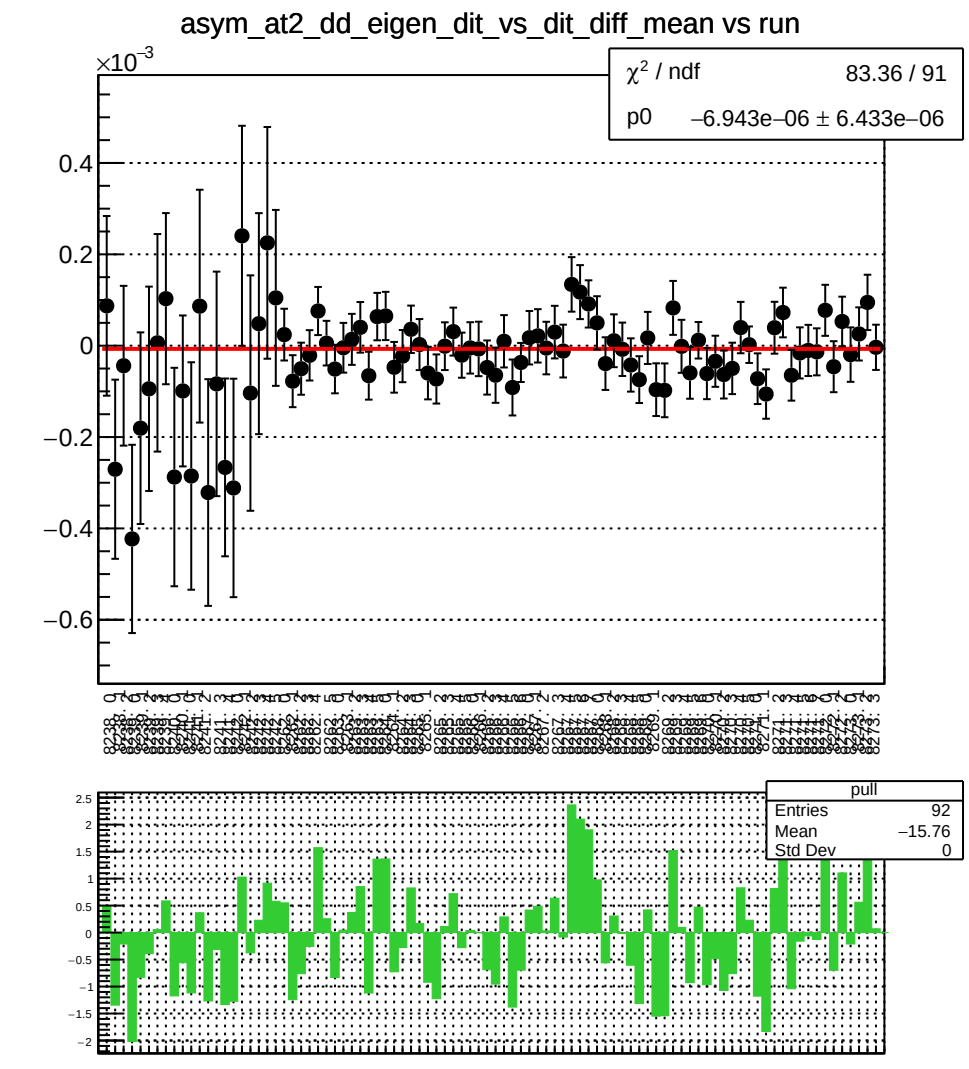

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.8e+05 / 91
p0 57.4 ± 0.04534
140
120
100
80
60
40
20

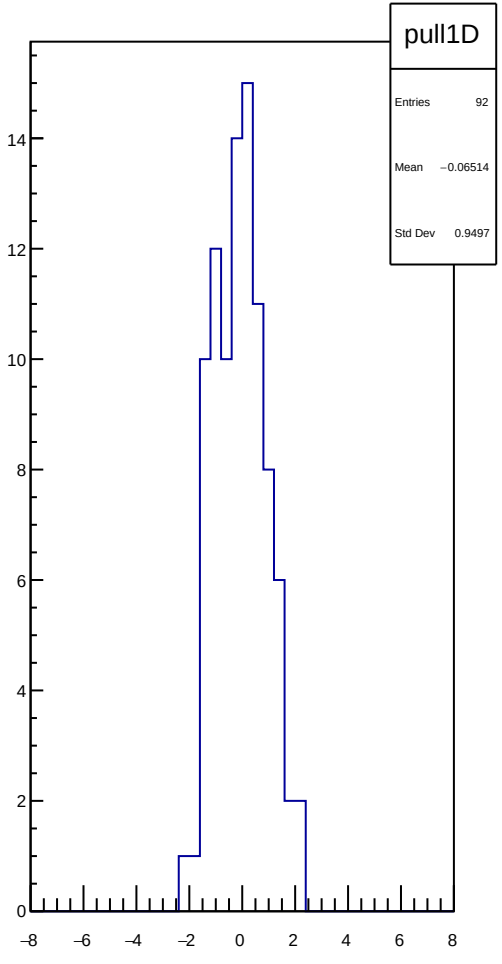
asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run

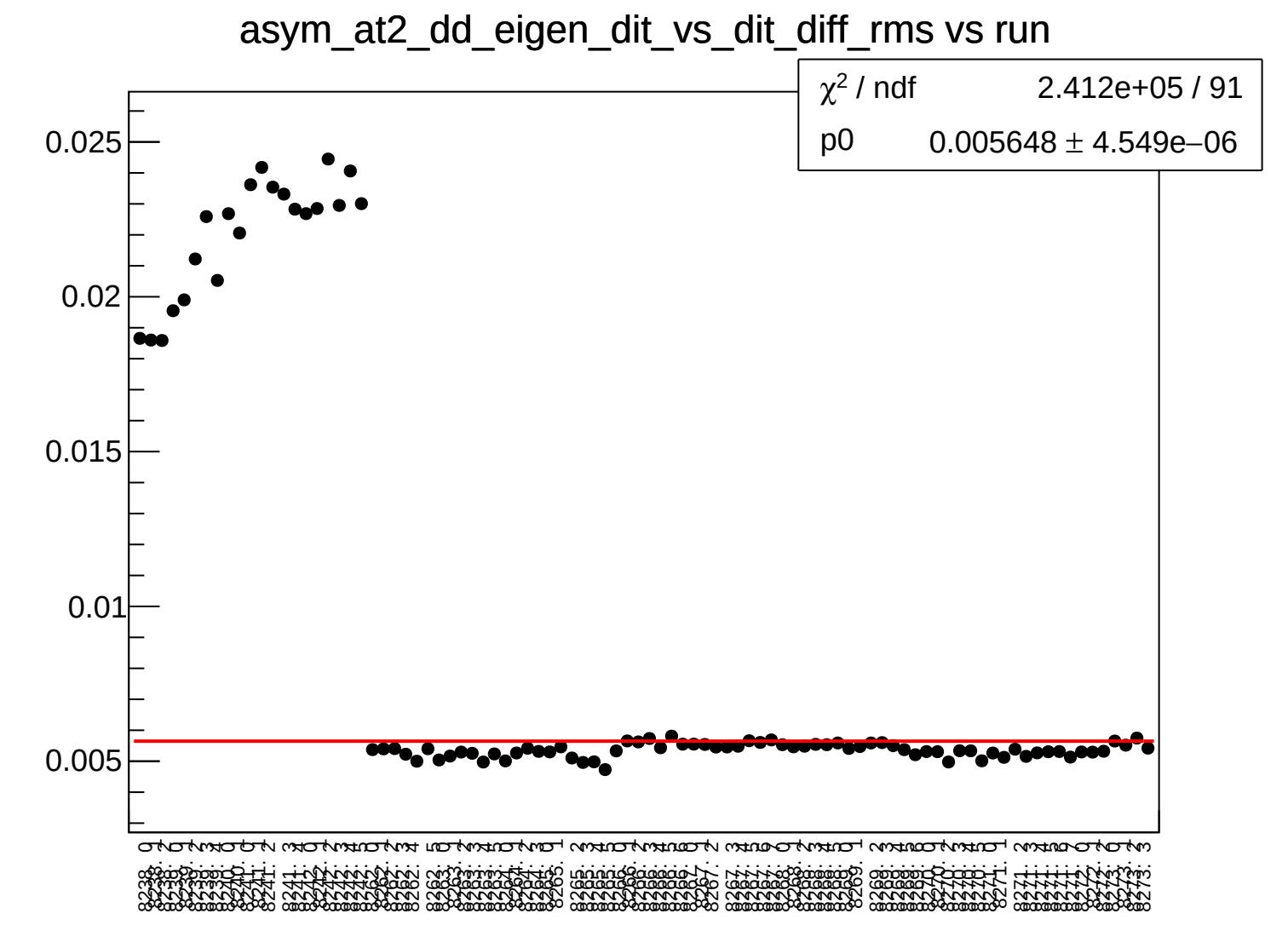


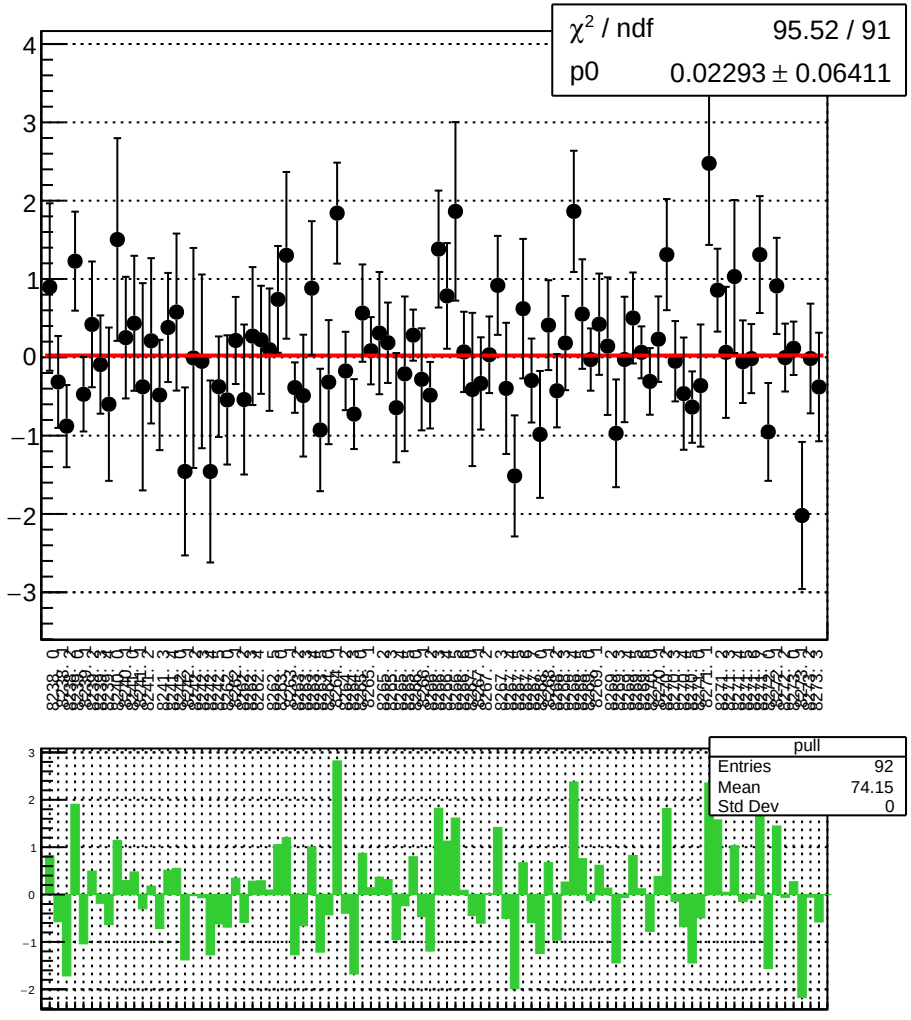

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.8e+05 / 91
p0 57.4 ± 0.04534
140
120
100
80
60
40
20

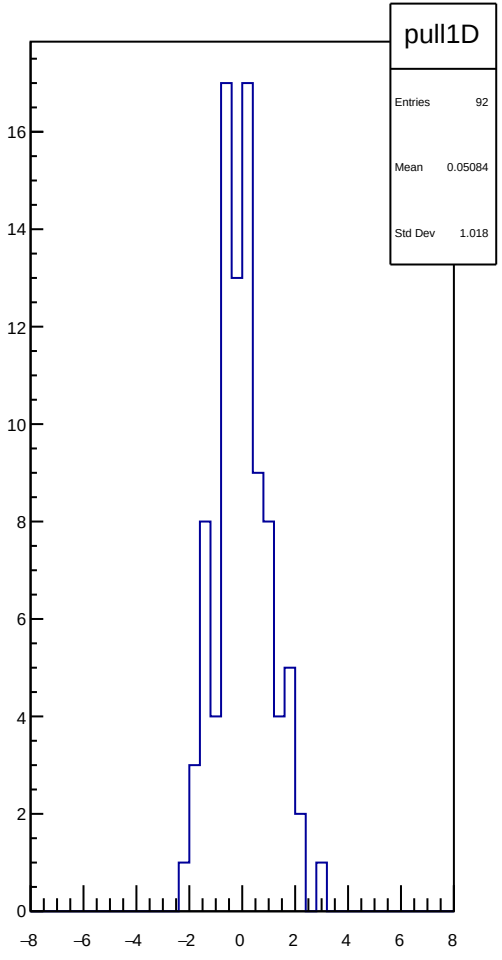

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 83.36 / 91
p0 −6.943e−06 ± 6.433e−06
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 92
Mean −15.76
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

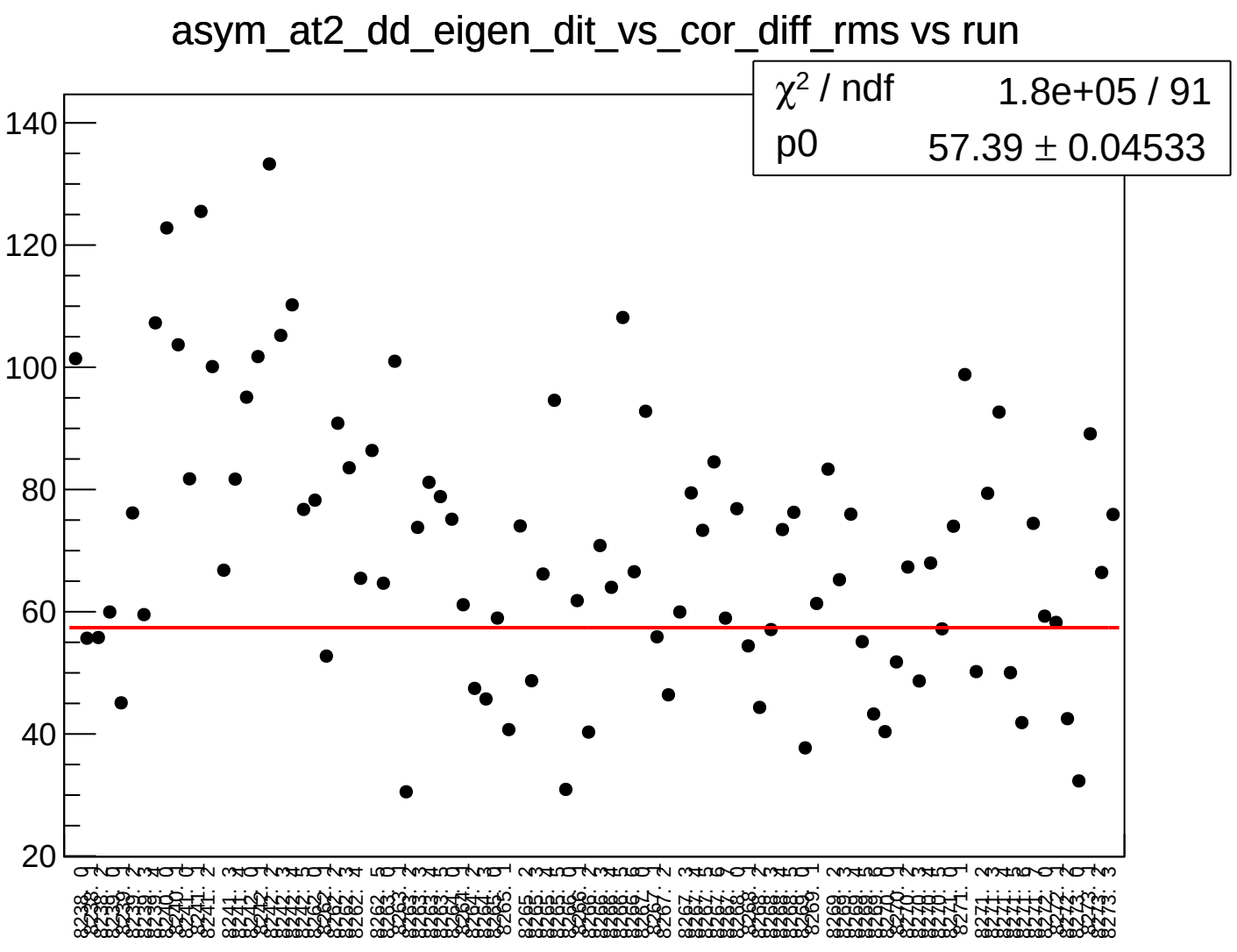

pull1D
Entries 92
Mean −0.06514
Std Dev 0.9497
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

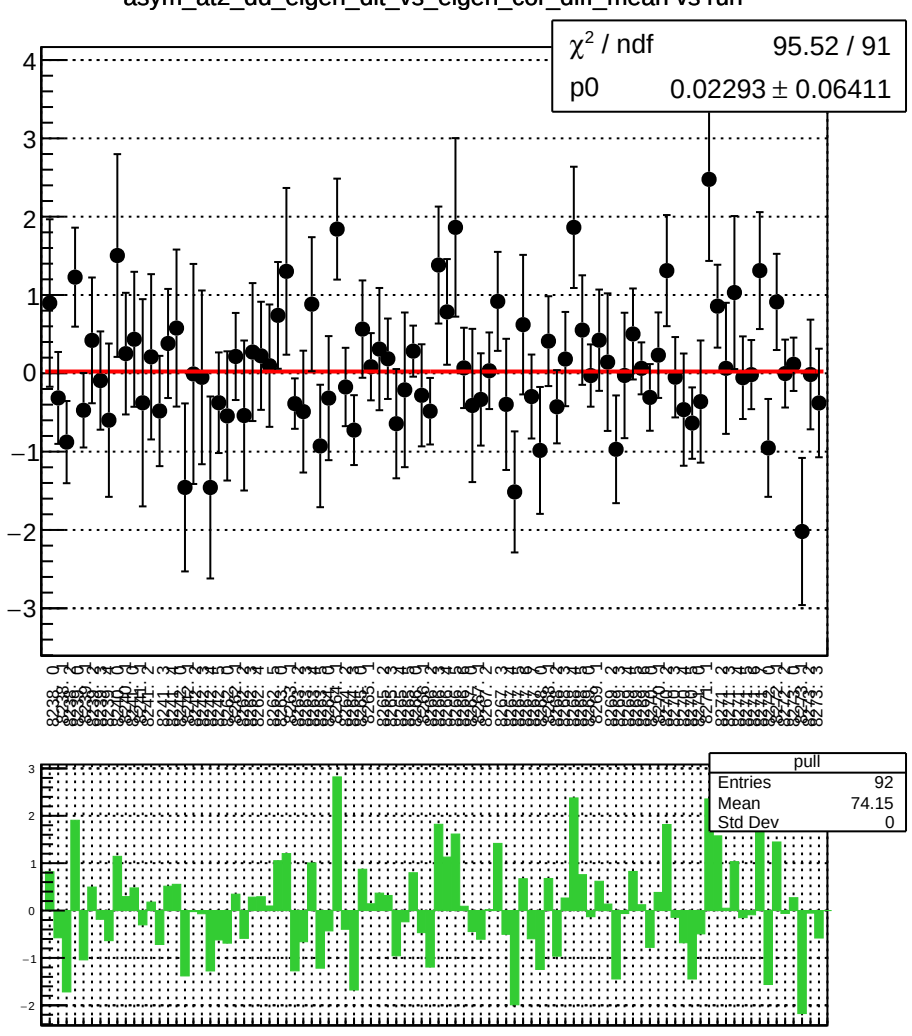

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.412e+05 / 91
p0 0.005648 ± 4.549e−06
0.025
0.02
0.015
0.01
0.005

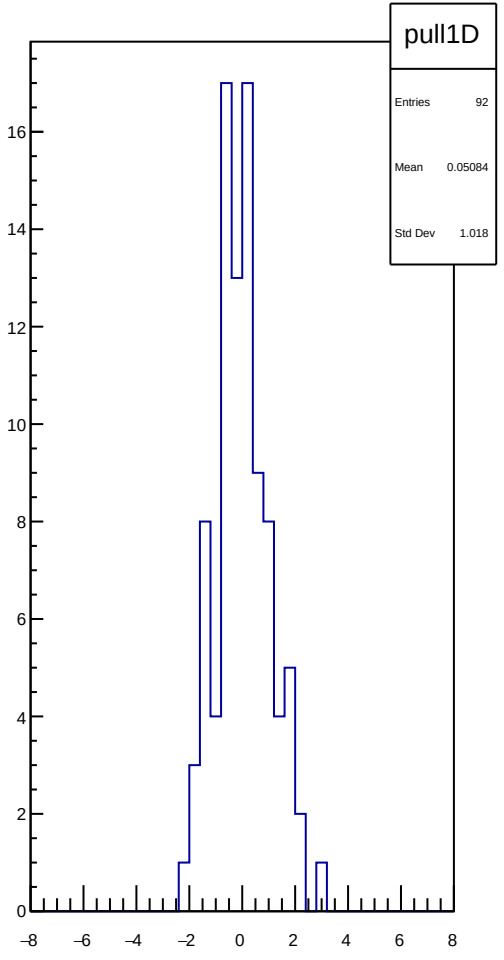
asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run

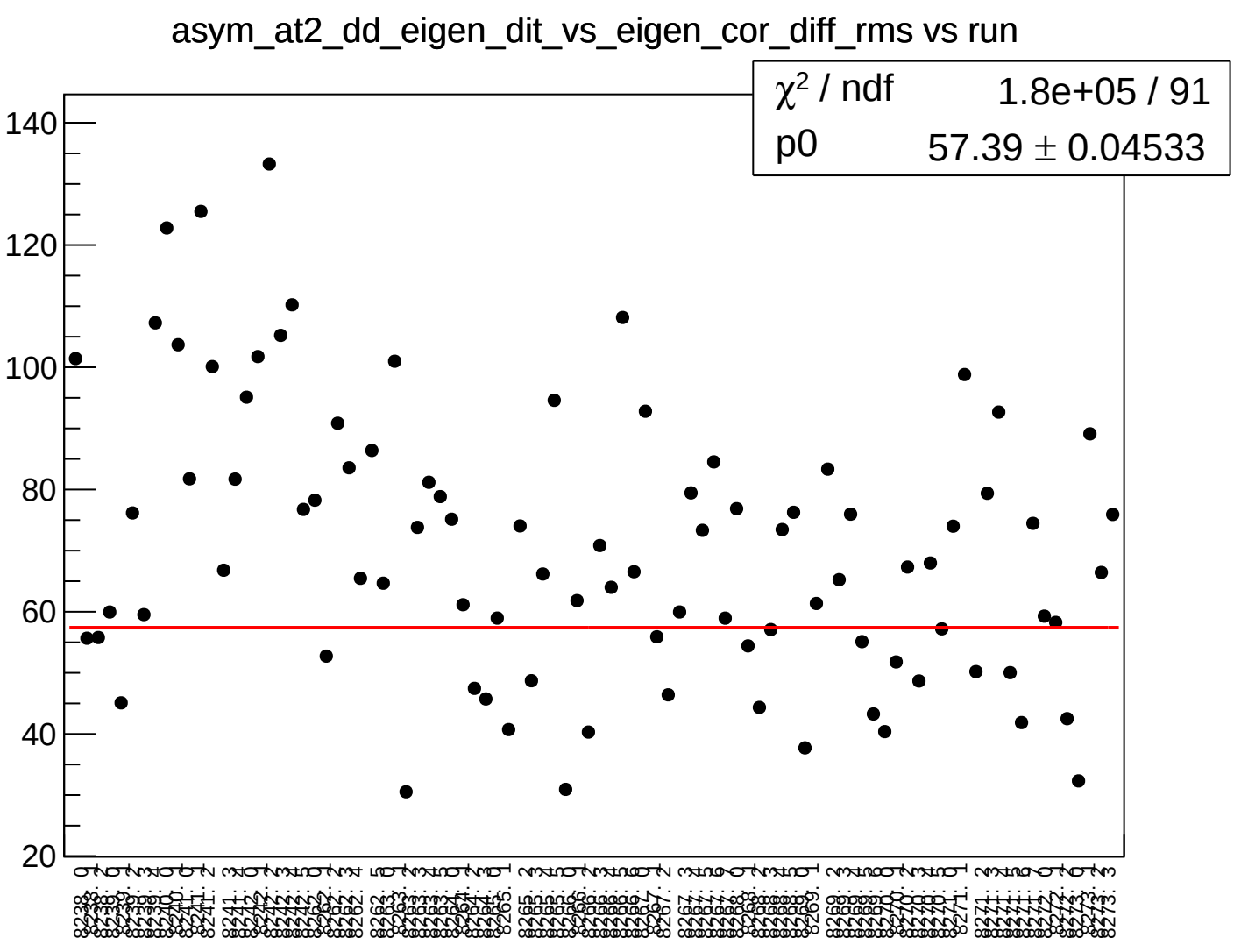


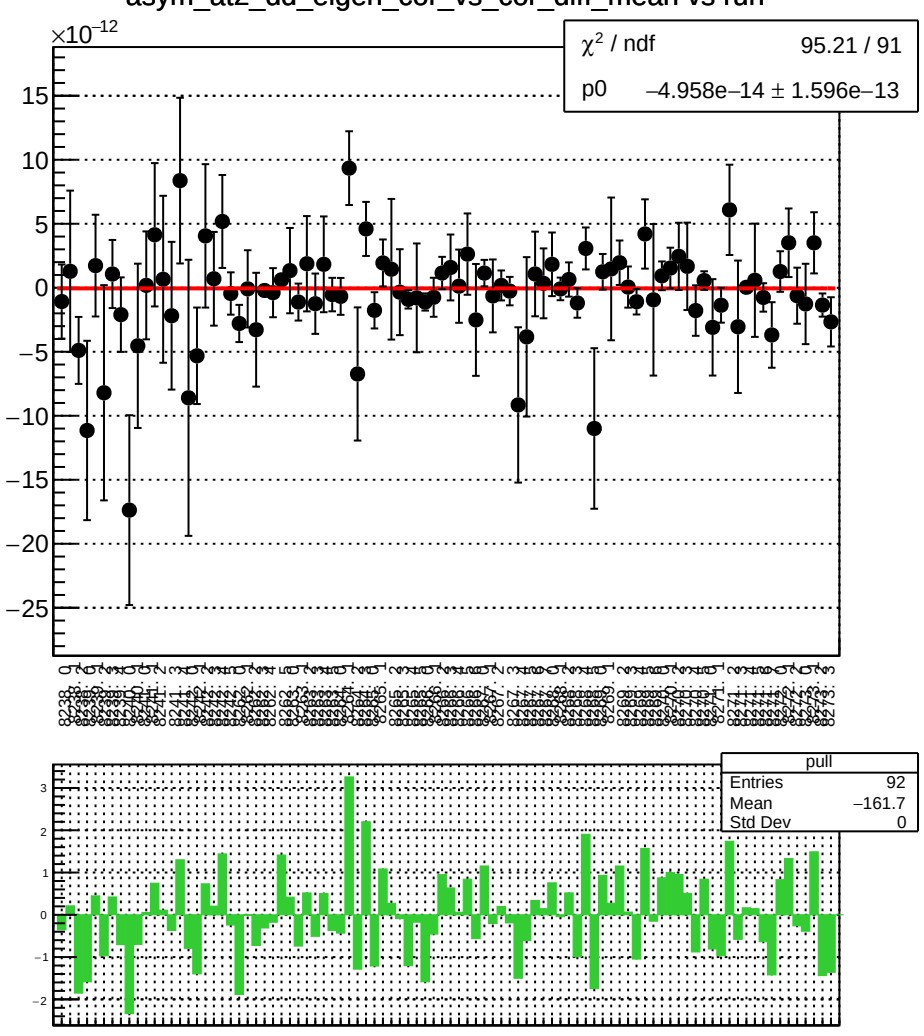



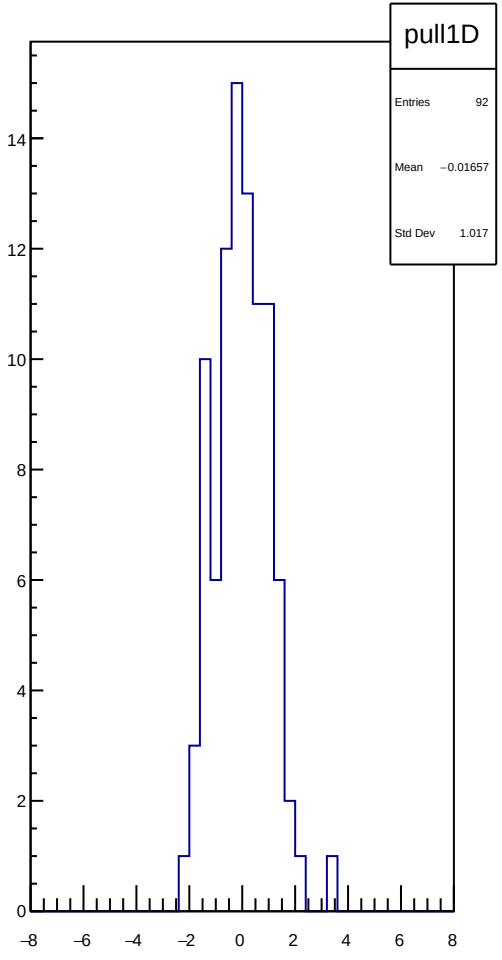

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.8e+05 / 91
p0 57.39 ± 0.04533
140
120
100
80
60
40
20

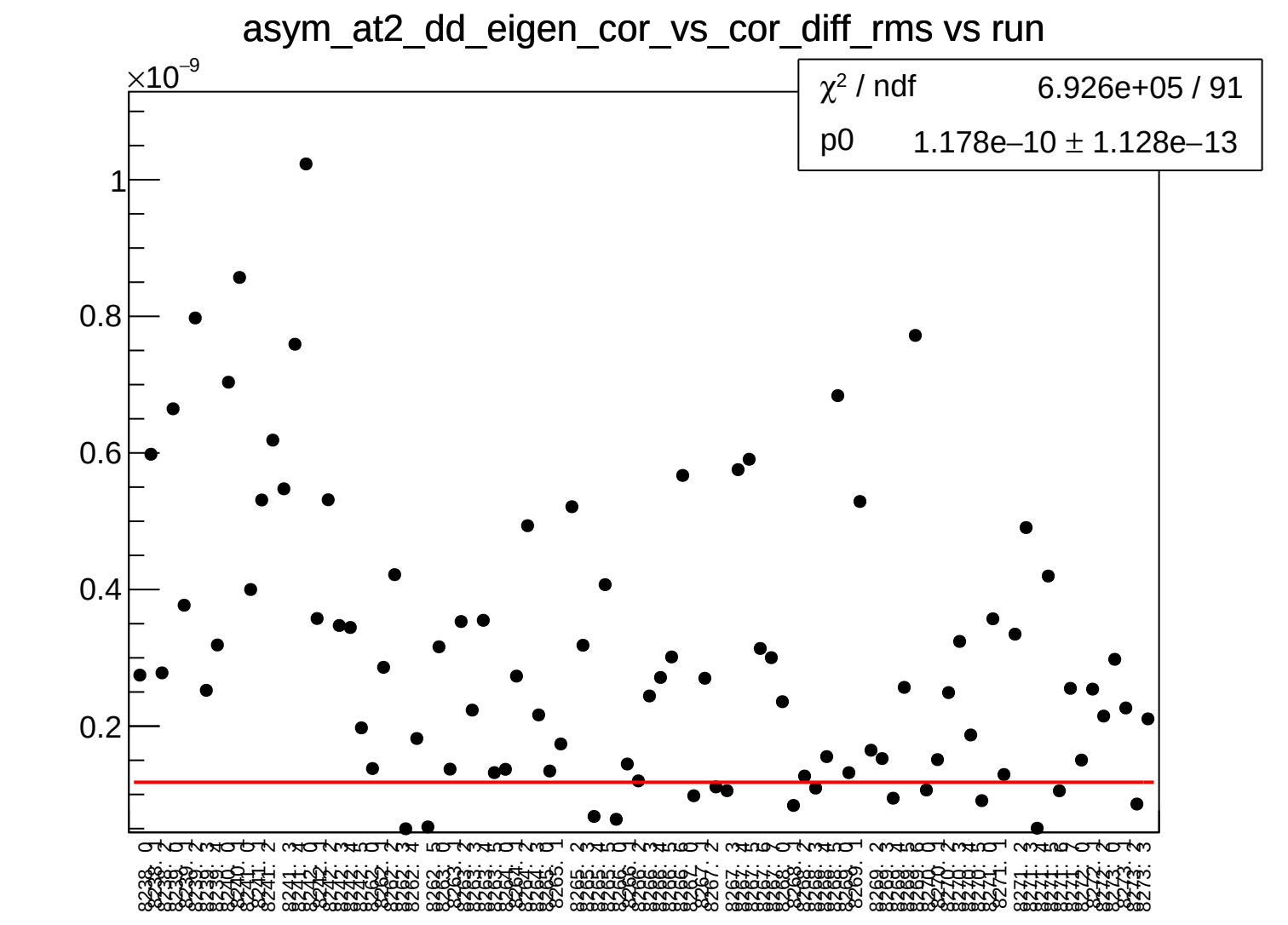

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.52 / 91
p0 0.02293 ± 0.06411
pull
Entries 92
Mean 74.15
Std Dev 0

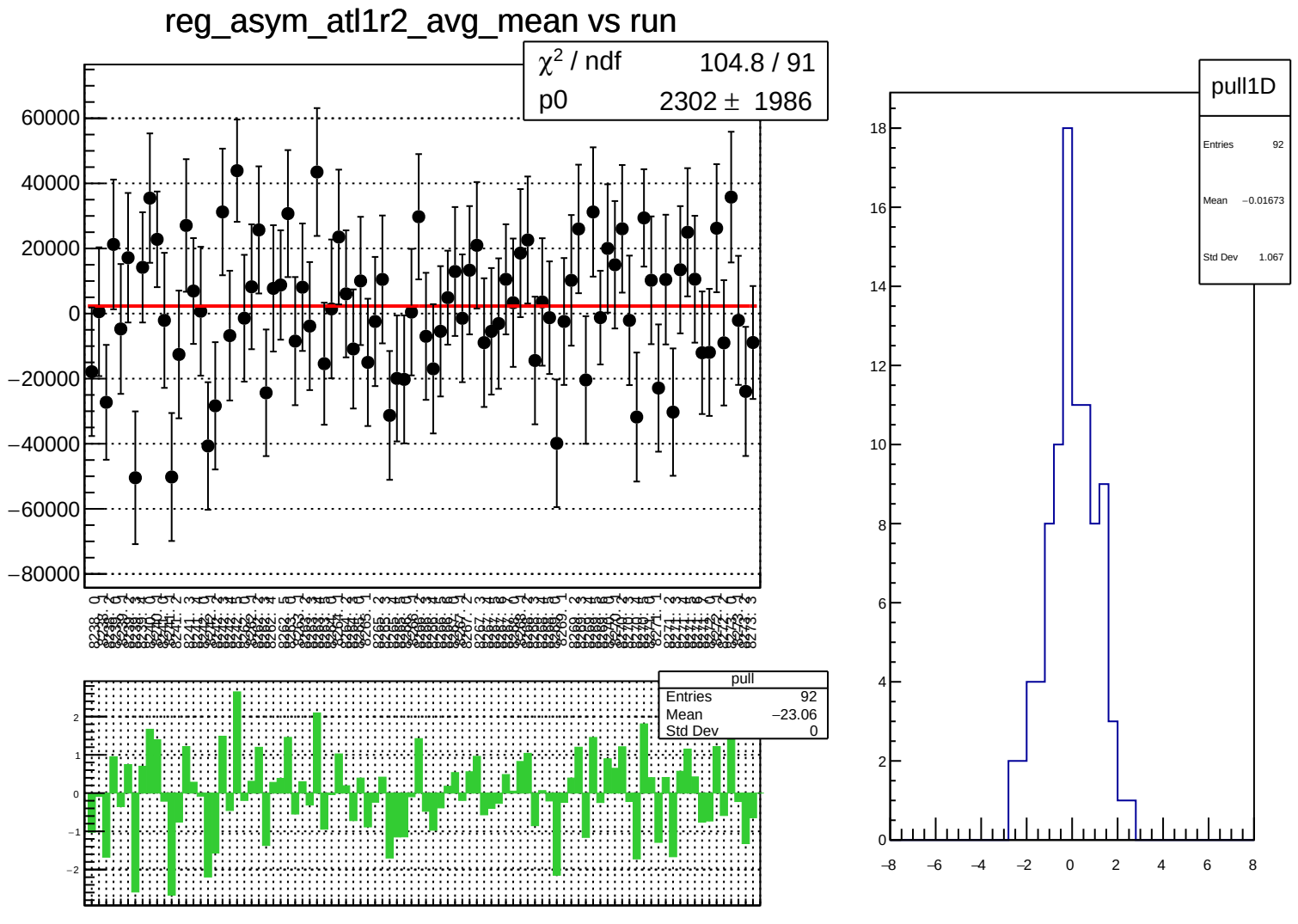

pull1D
Entries 92
Mean 0.05084
Std Dev 1.018

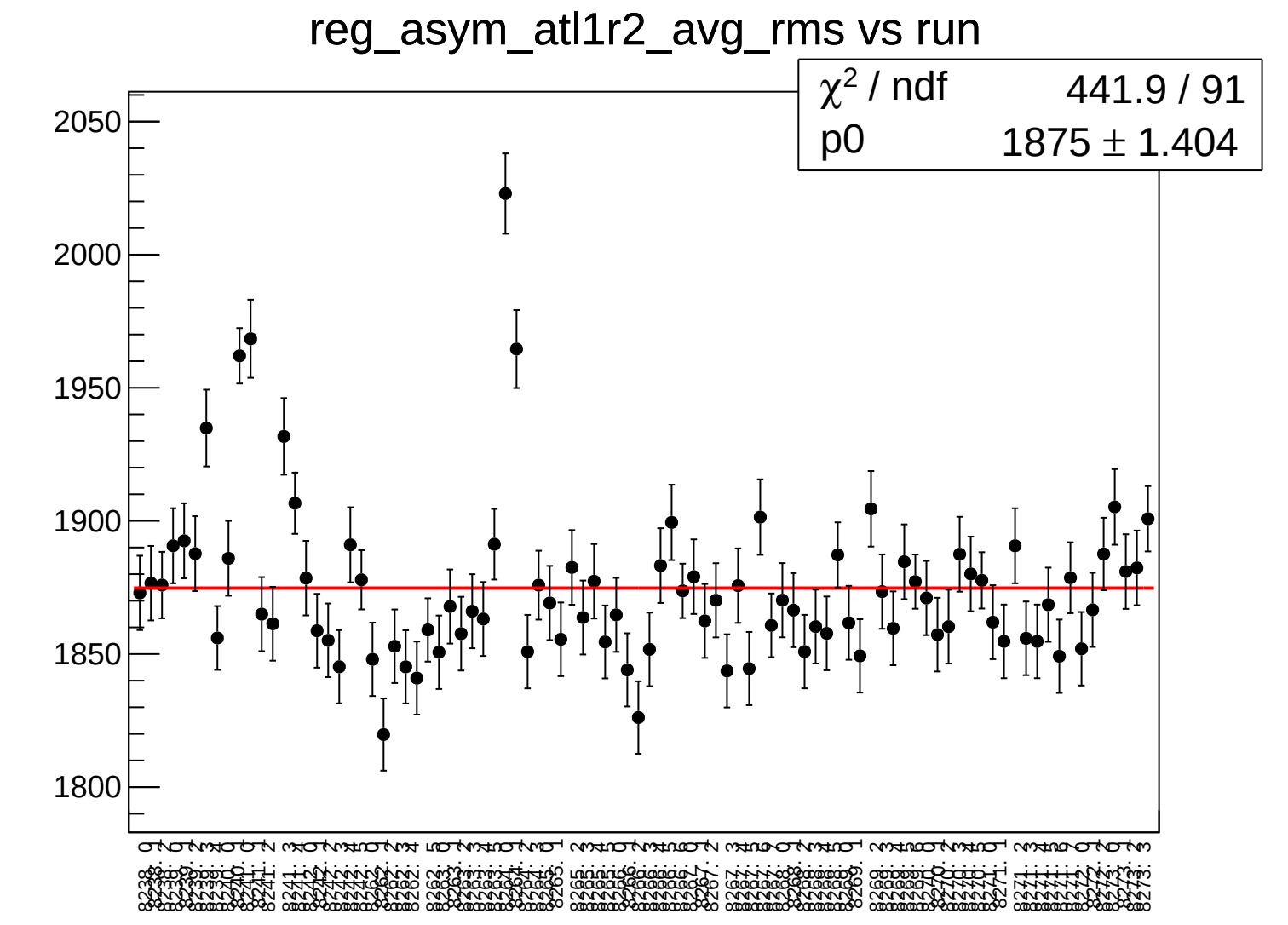

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.8e+05 / 91
p0 57.39 ± 0.04533
140
120
100
80
60
40
20

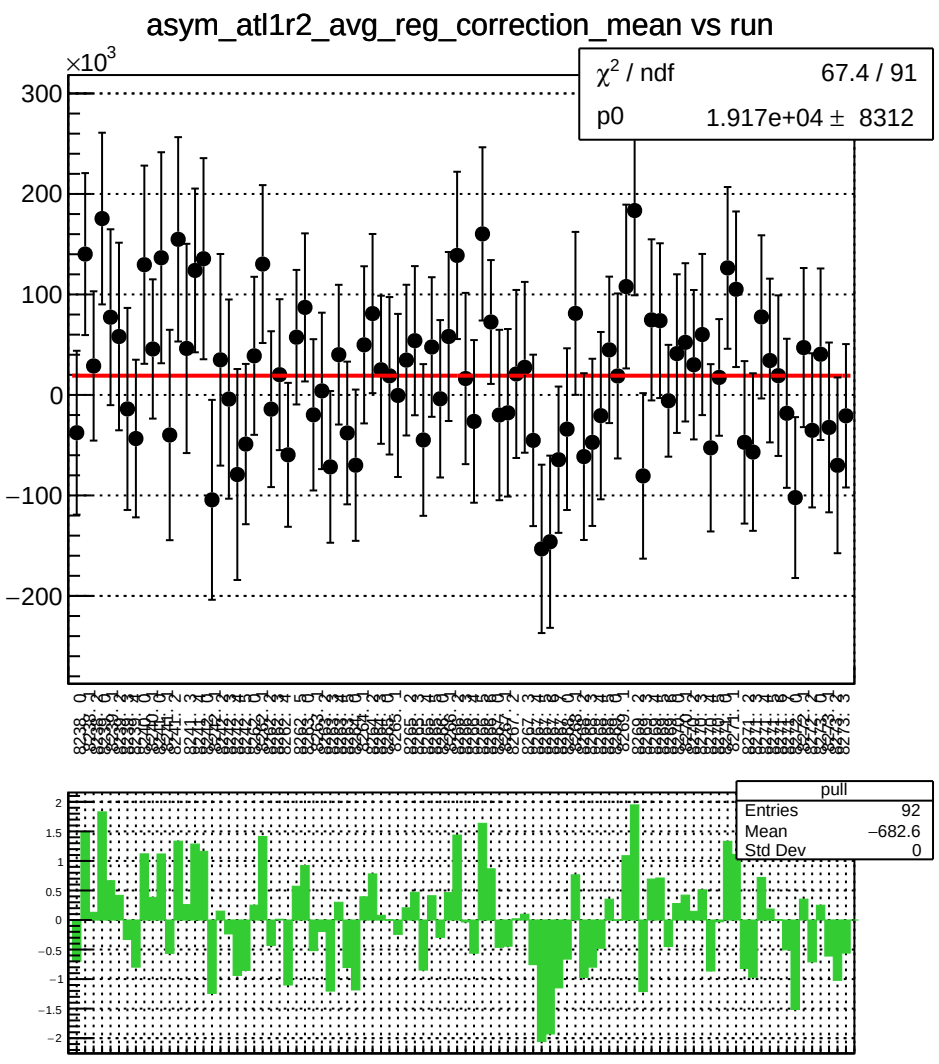

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.21 / 91
p0 −4.958e−14 ± 1.596e−13
pull
Entries 92
Mean −161.7
Std Dev 0

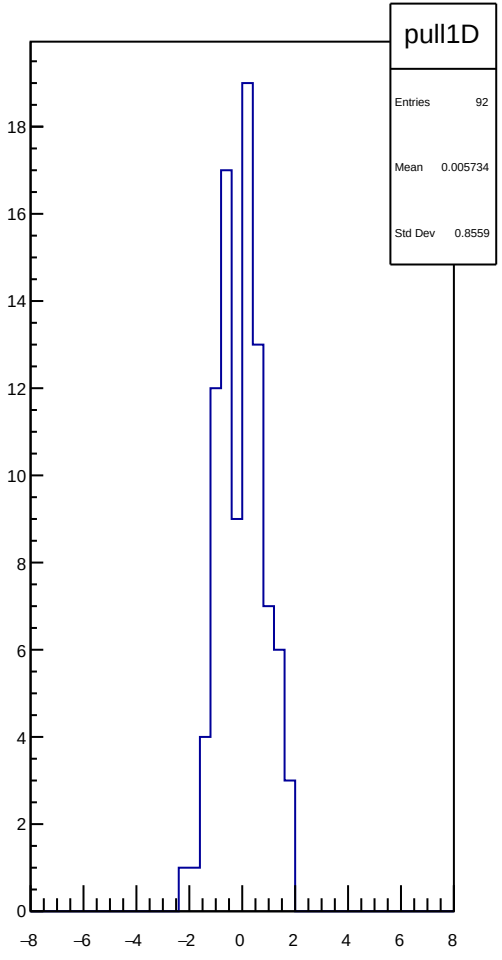

pull1D
Entries 92
Mean −0.01657
Std Dev 1.017

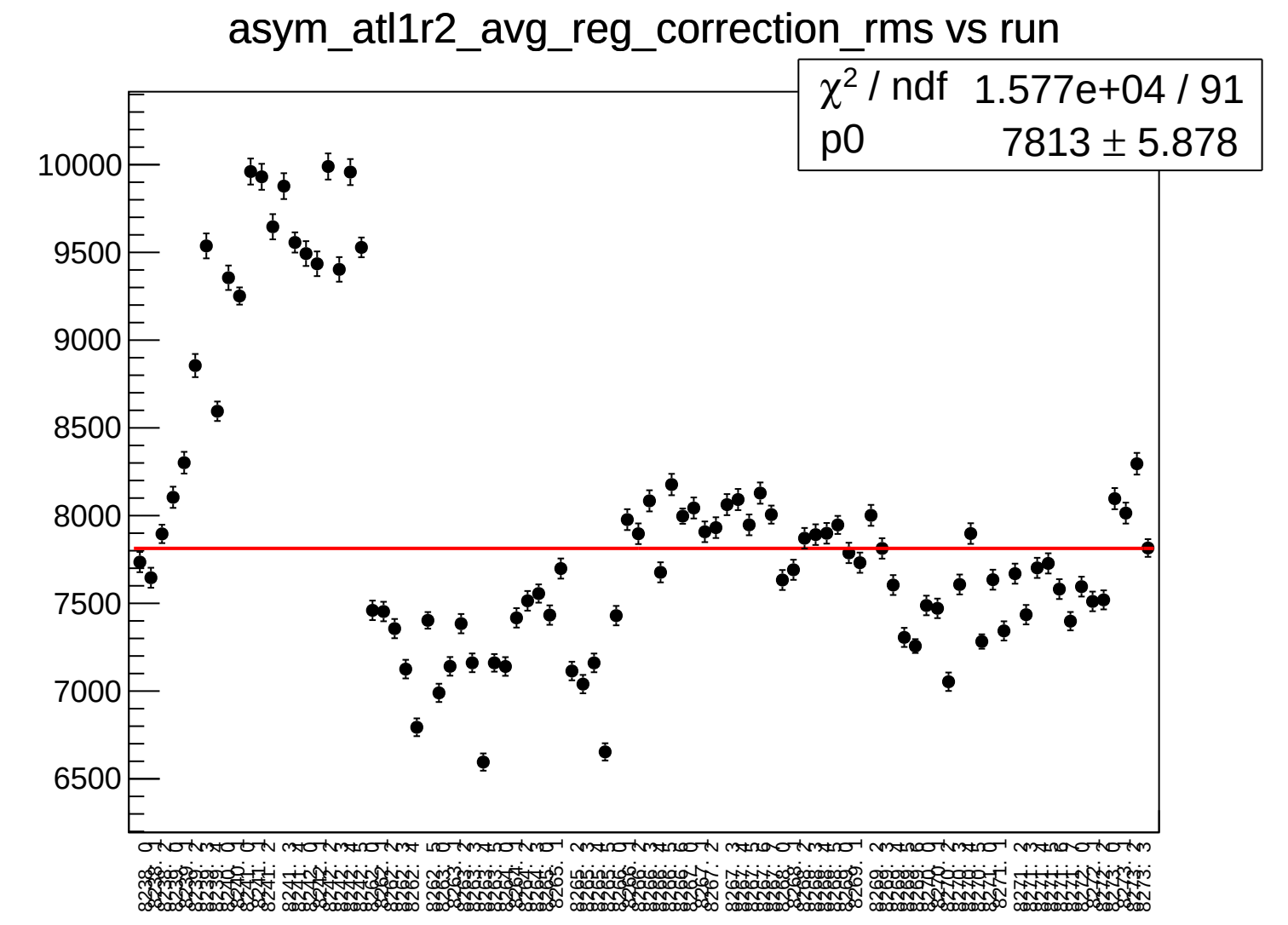

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.926e+05 / 91
p0 1.178e−10 ± 1.128e−13
1
0.8
0.6
0.4
0.2

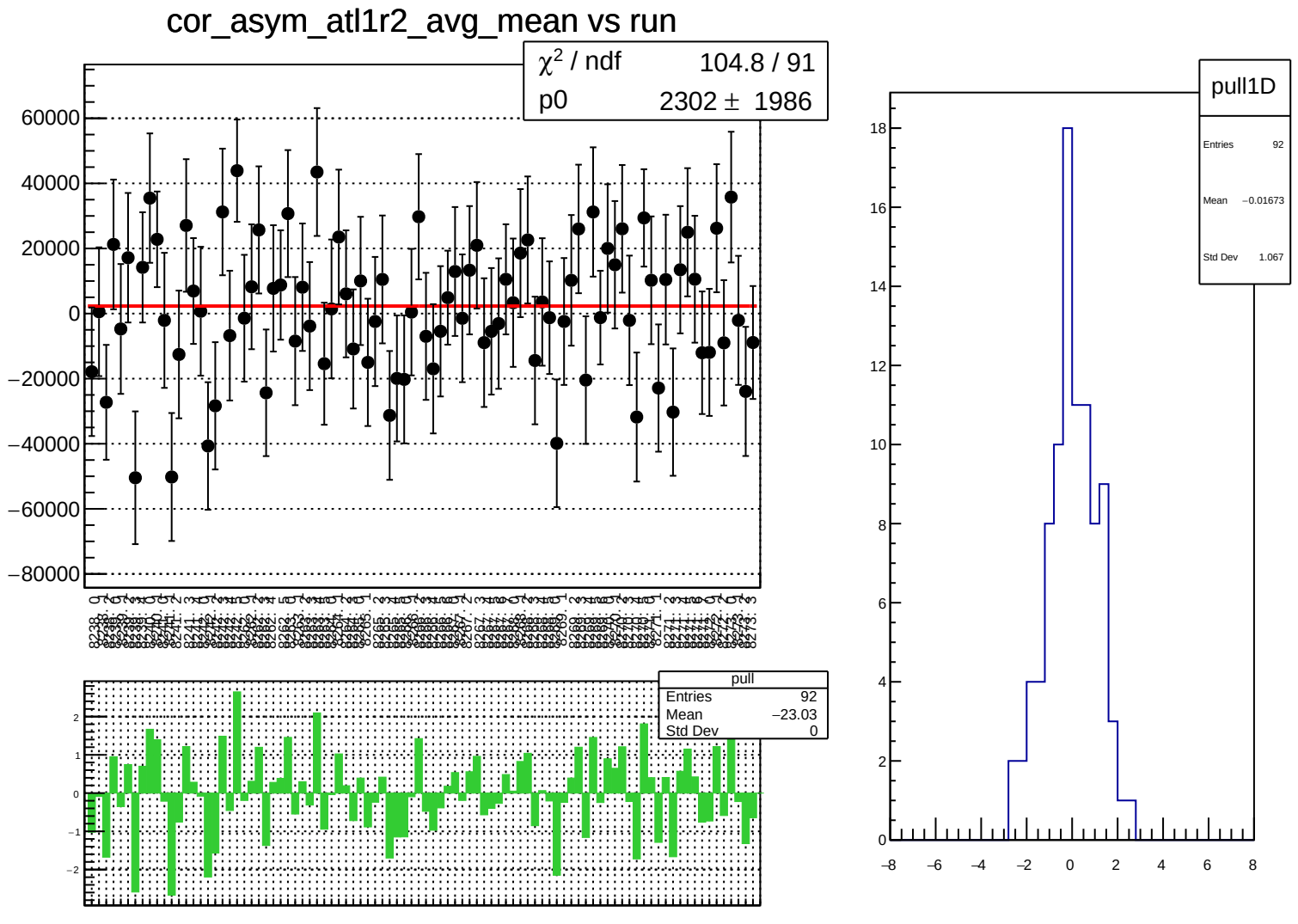

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 104.8 / 91
p0 2302 ± 1986
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −23.06
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01673
Std Dev 1.067
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

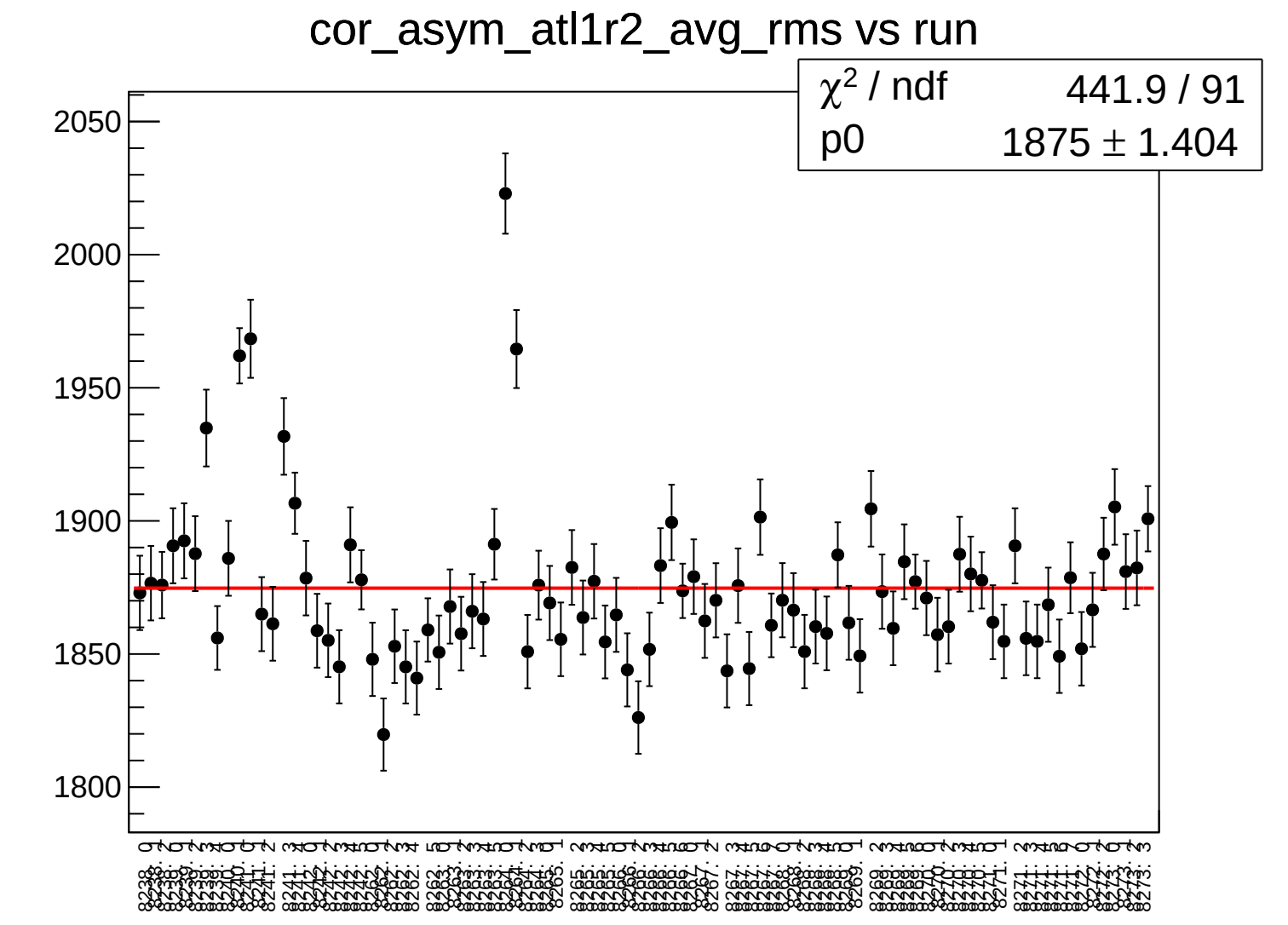

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 441.9 / 91
p0 1875 ± 1.404
2050
2000
1950
1900
1850
1800

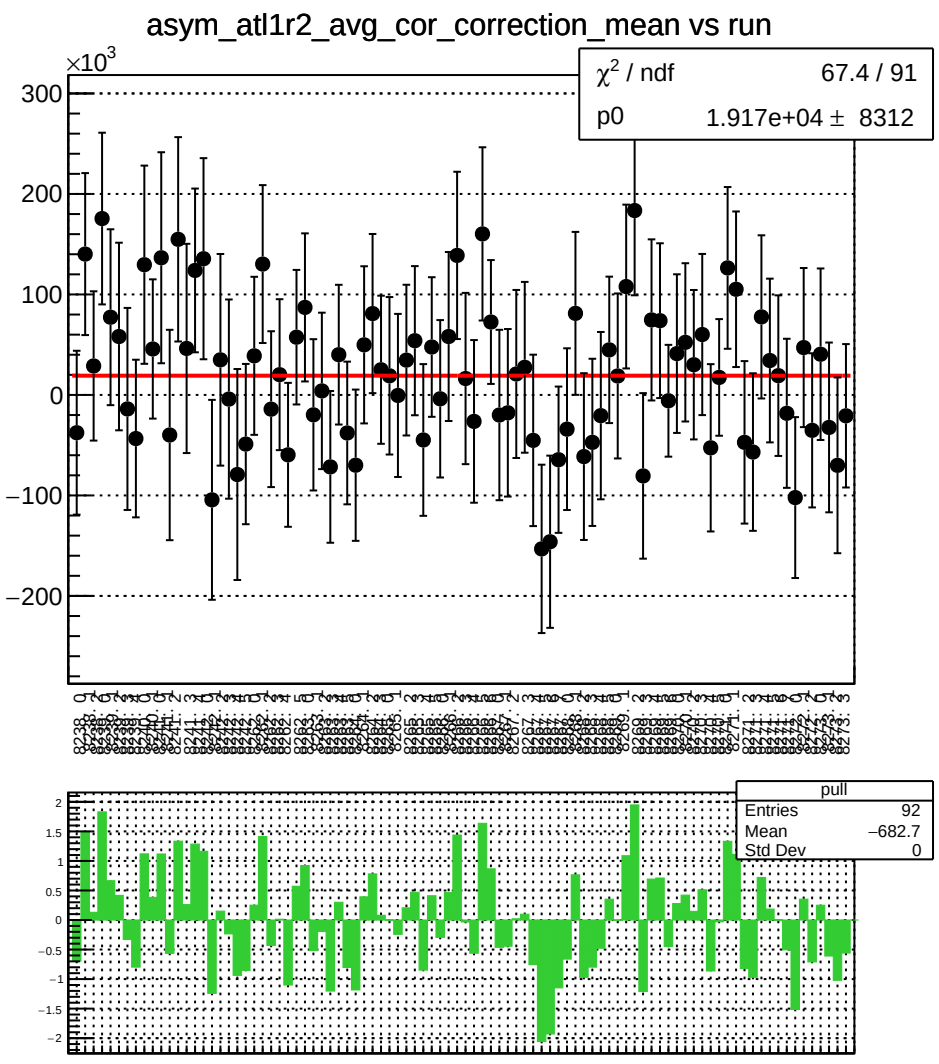

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 67.4 / 91
p0 1.917e+04 ± 8312
pull
Entries 92
Mean −682.6
Std Dev 0

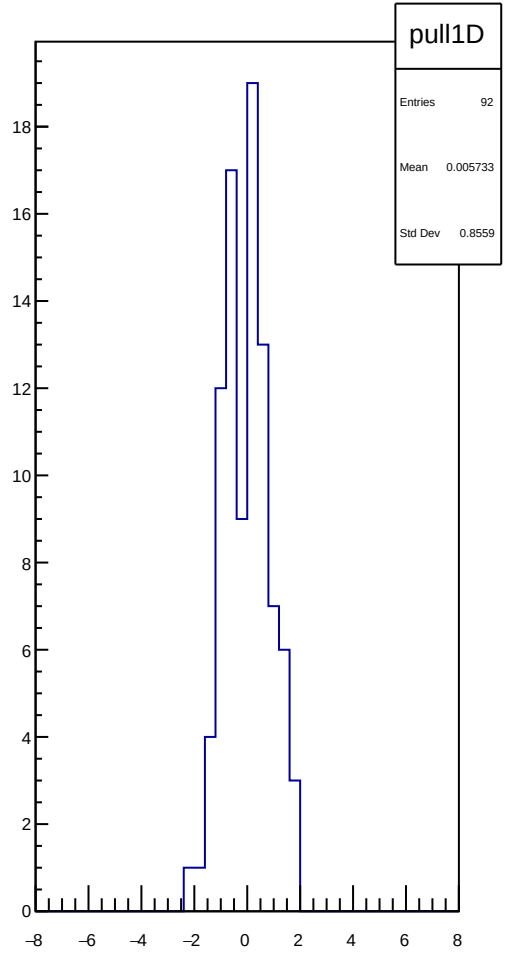

pull1D
Entries 92
Mean 0.005734
Std Dev 0.8559

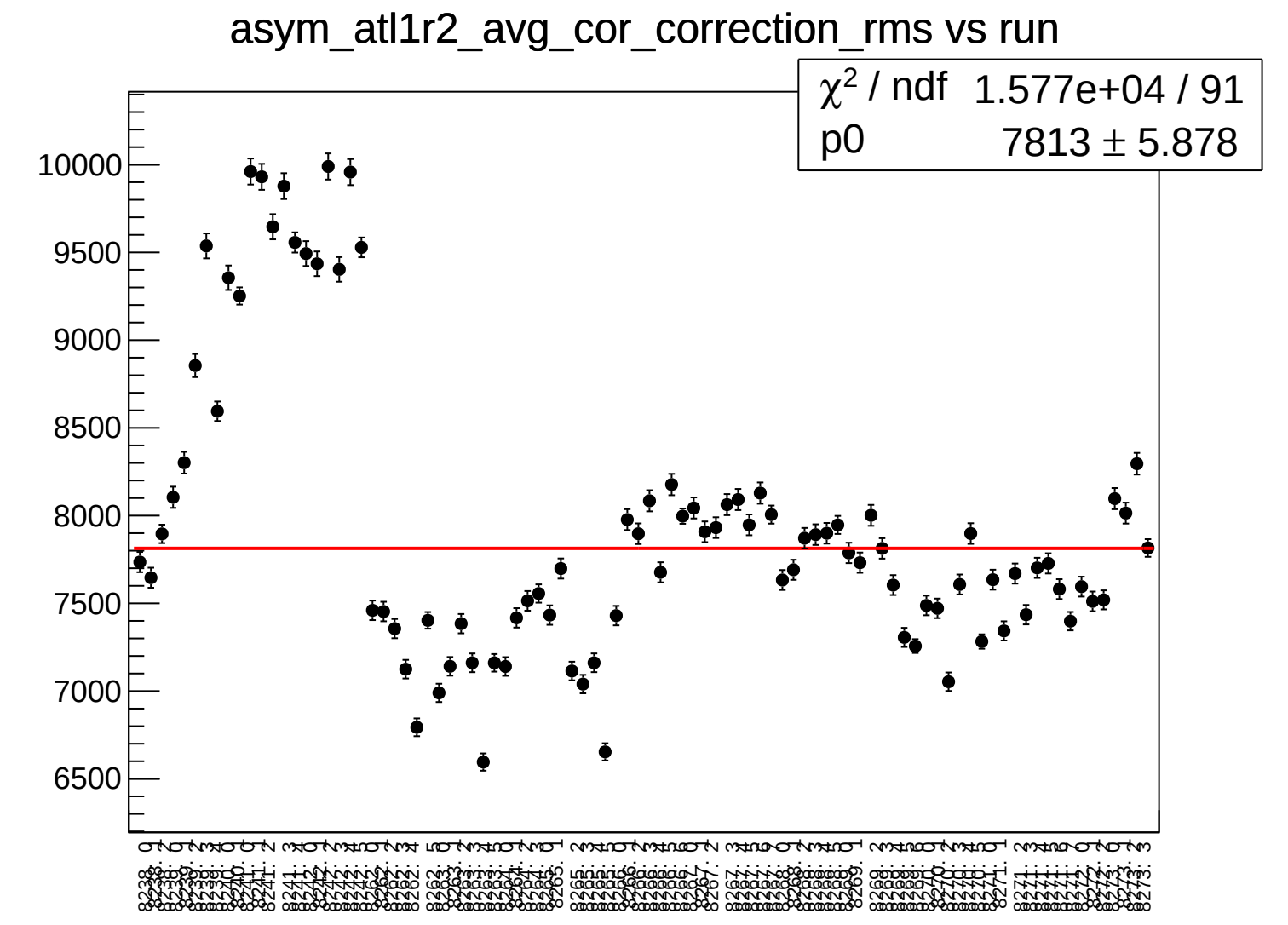

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 1.577e+04 / 91
p0 7813 ± 5.878
10000
9500
9000
8500
8000
7500
7000
6500

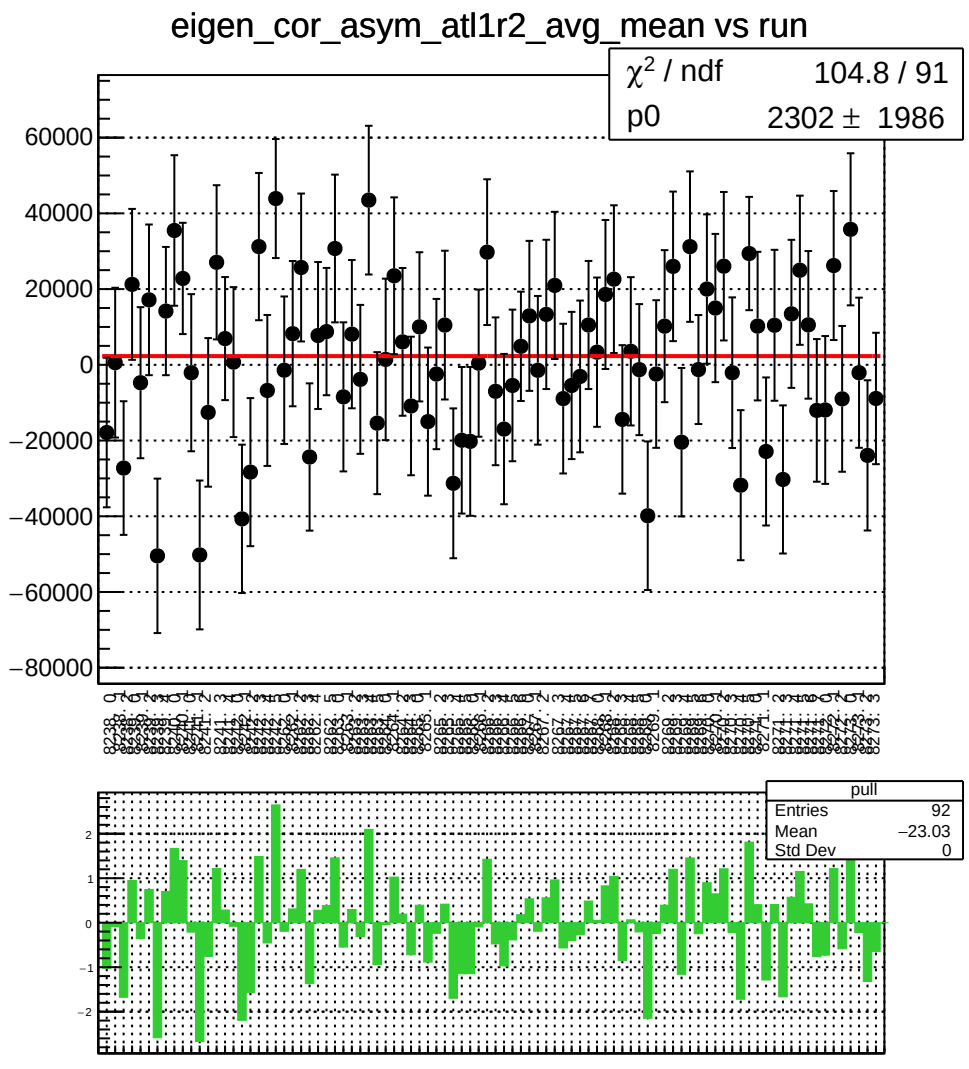

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 104.8 / 91
p0 2302 ± 1986
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −23.03
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01673
Std Dev 1.067
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

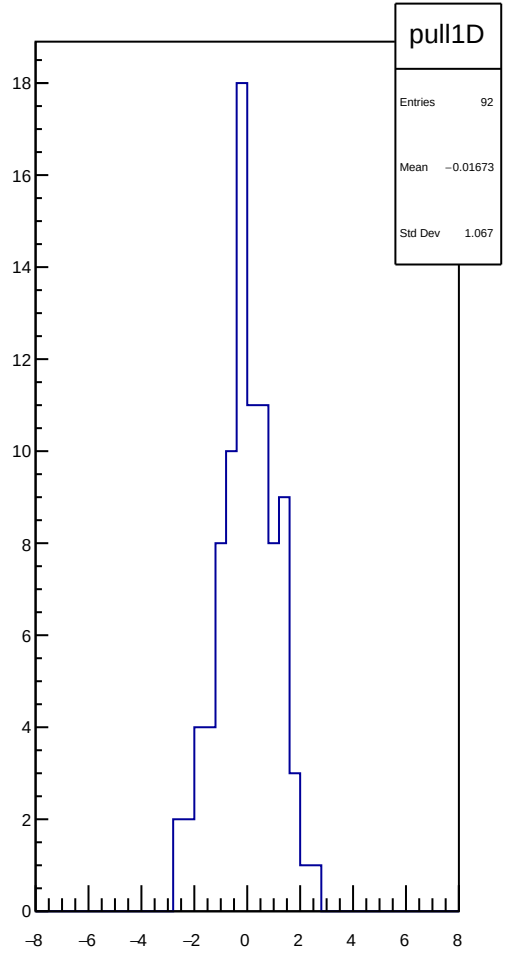

cor_asym_atl1r2_avg_rms vs run
$\chi^2$ / ndf 441.9 / 91
p0 1875 ± 1.404
2050
2000
1950
1900
1850
1800

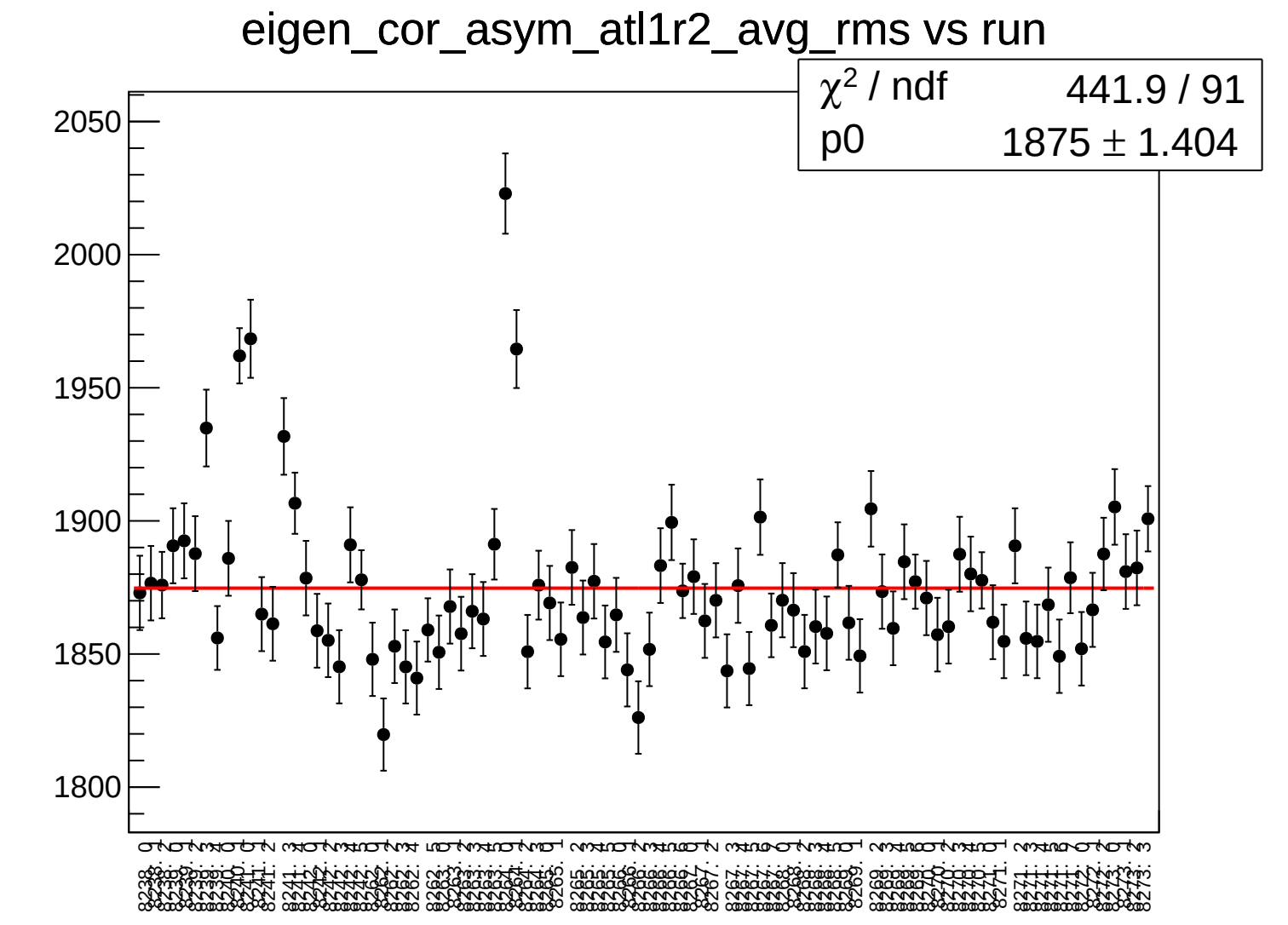

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 67.4 / 91
p0 1.917e+04 ± 8312
pull
Entries 92
Mean −682.7
Std Dev 0

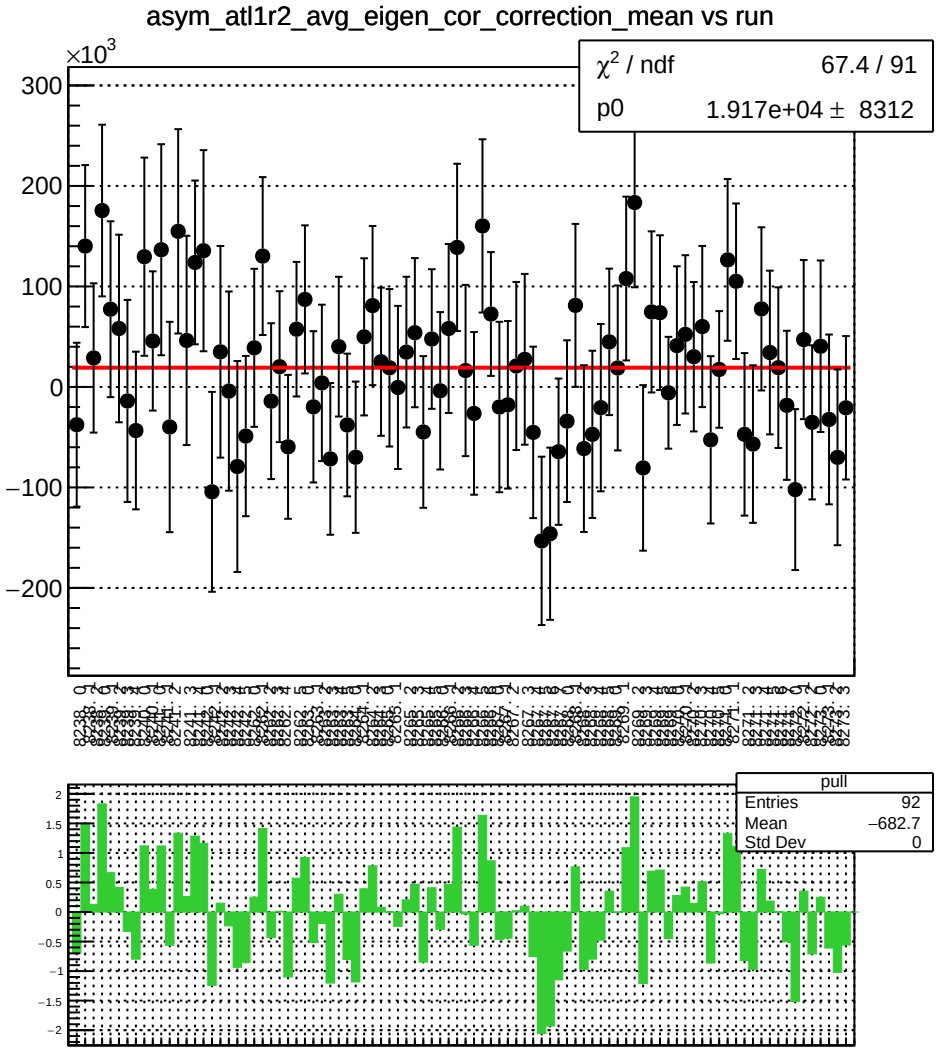

pull1D
Entries 92
Mean 0.005733
Std Dev 0.8559

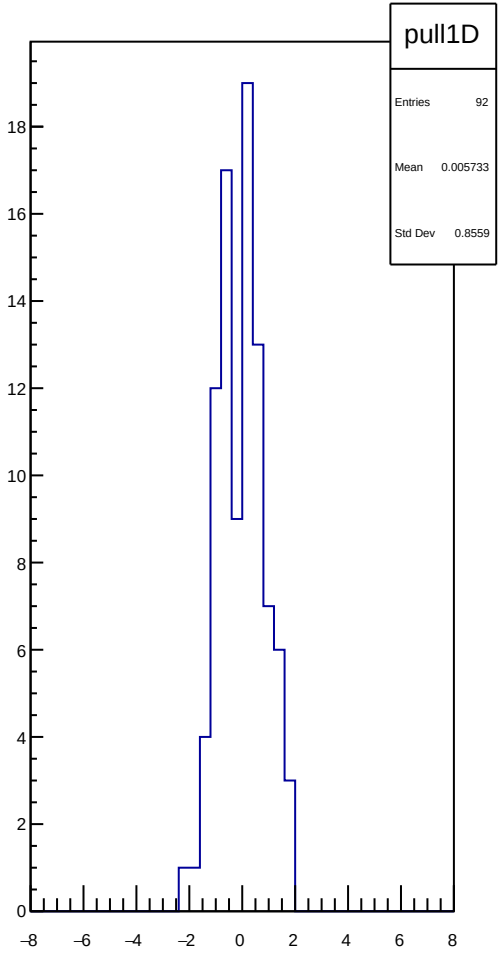

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 1.577e+04 / 91
p0 7813 ± 5.878
10000
9500
9000
8500
8000
7500
7000
6500

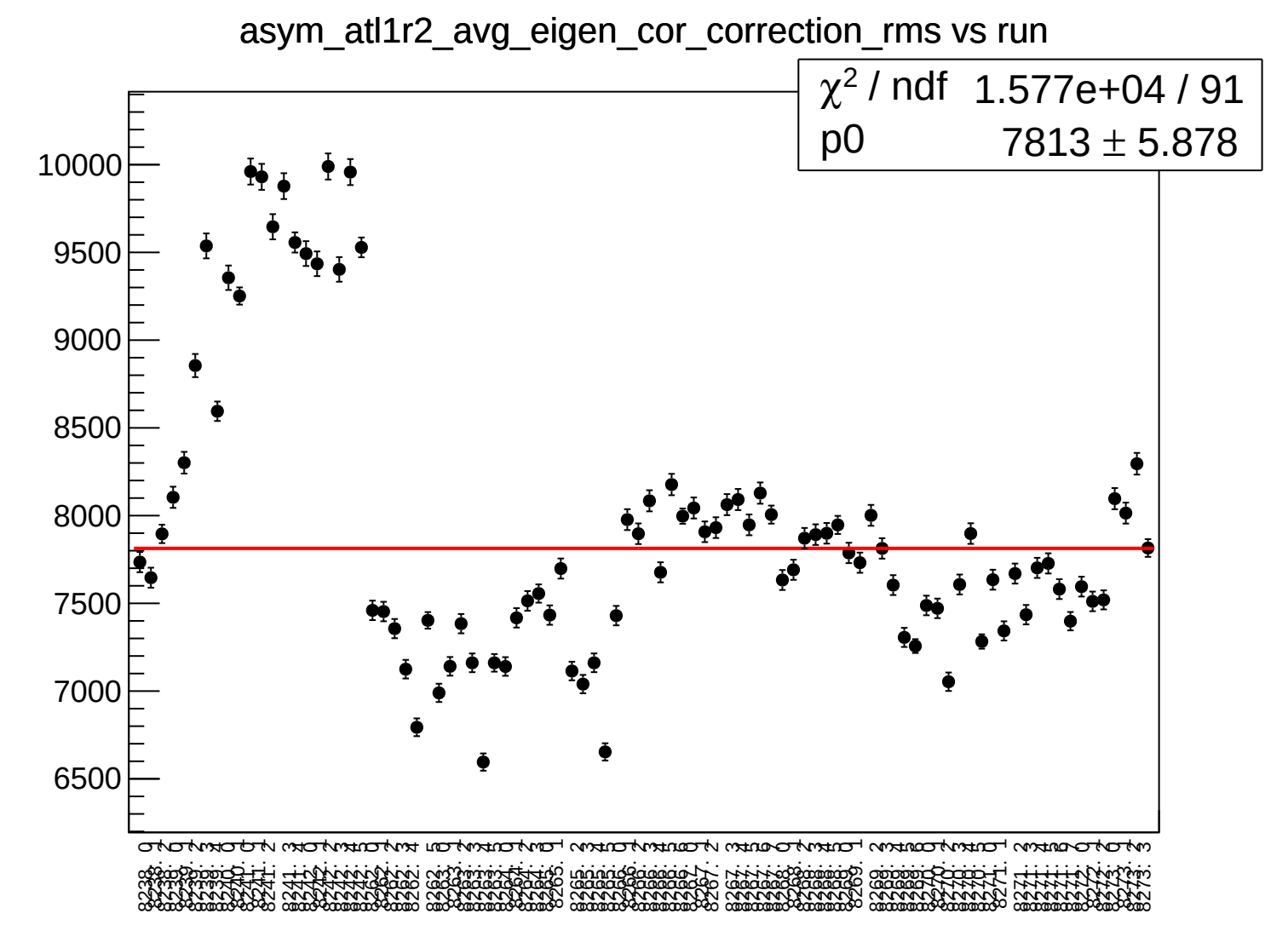

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 104.8 / 91
p0 2302 ± 1986
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −23.03
Std Dev 0
2
1
0
−1
−2

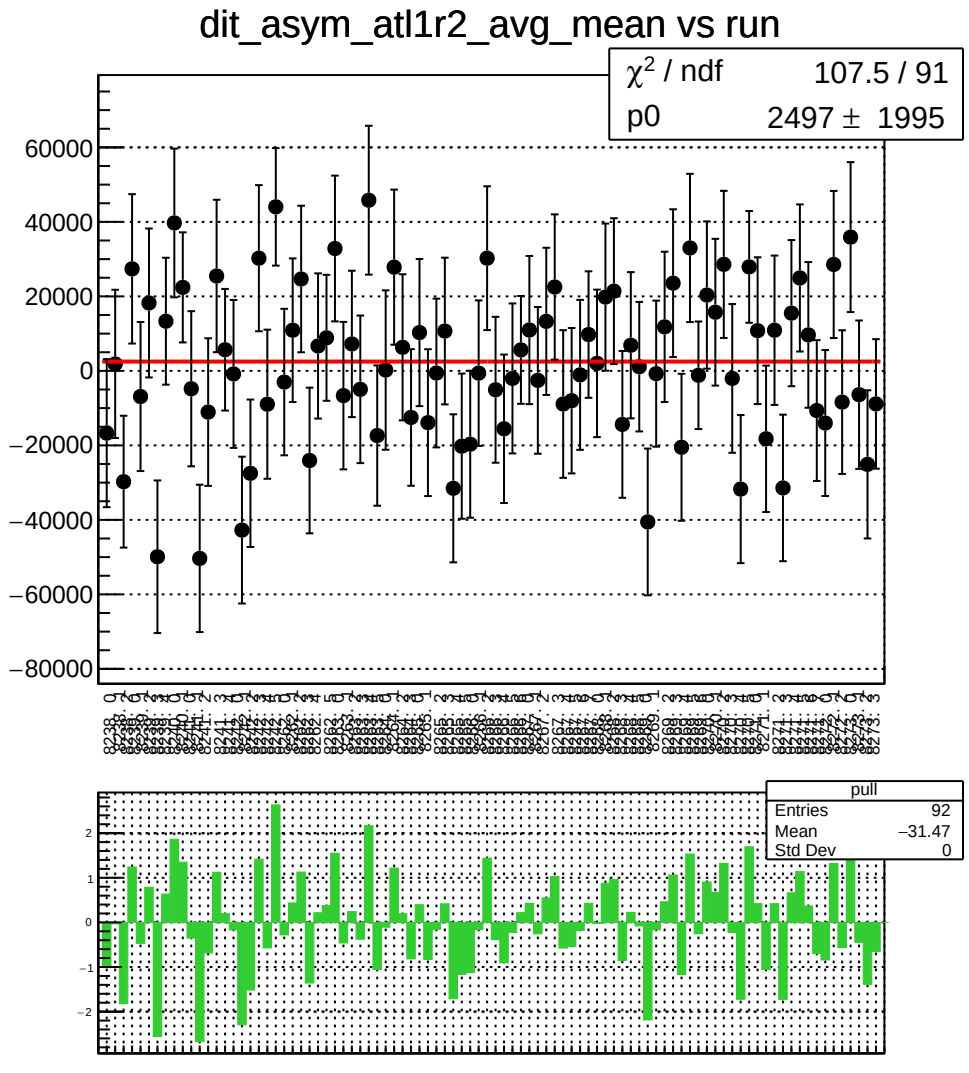

pull1D
Entries 92
Mean −0.01673
Std Dev 1.067
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

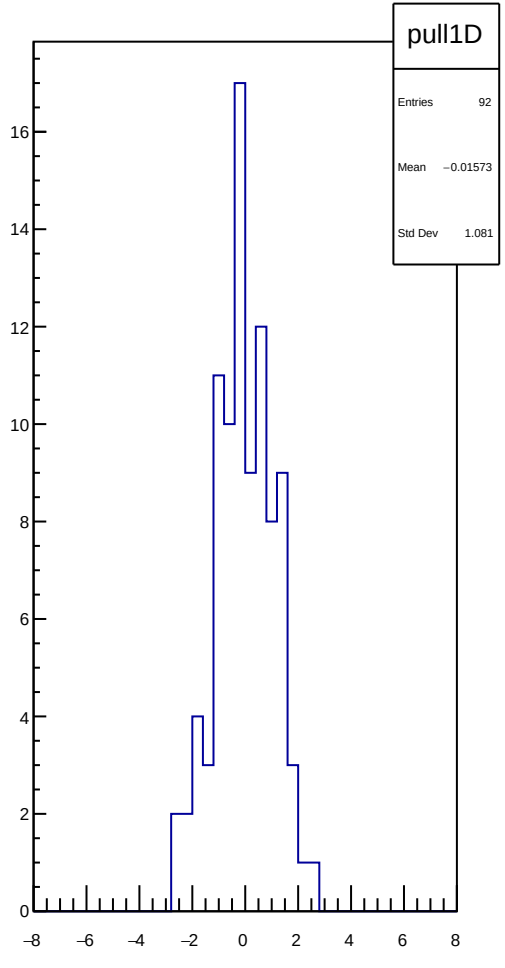

eigen_cor_asym_atl1r2_avg_rms vs run
$\chi^2$ / ndf 441.9 / 91
p0 1875 ± 1.404
2050
2000
1950
1900
1850
1800

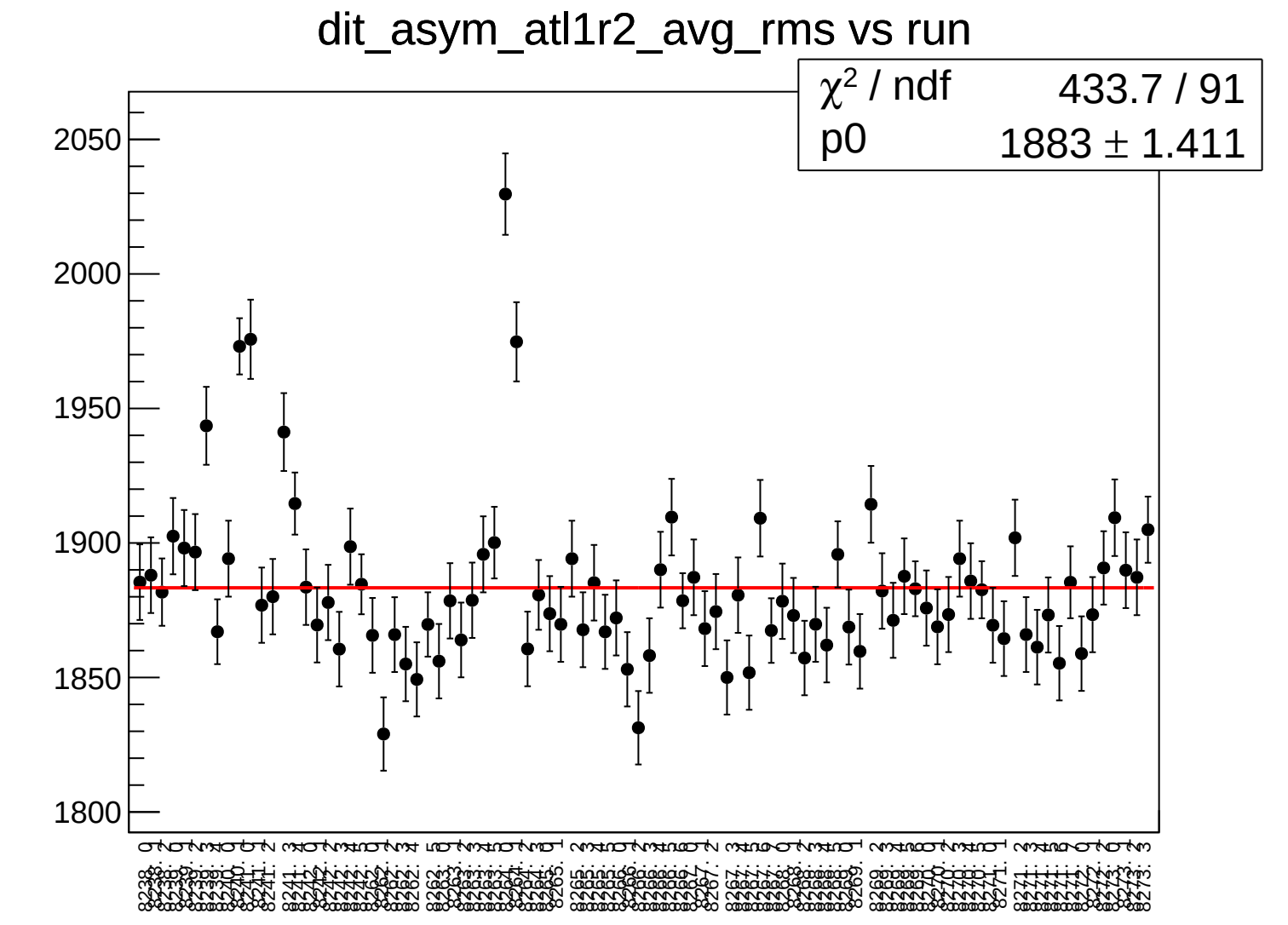

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.4 / 91
p0 1.917e+04 ± 8312
pull
Entries 92
Mean −682.7
Std Dev 0

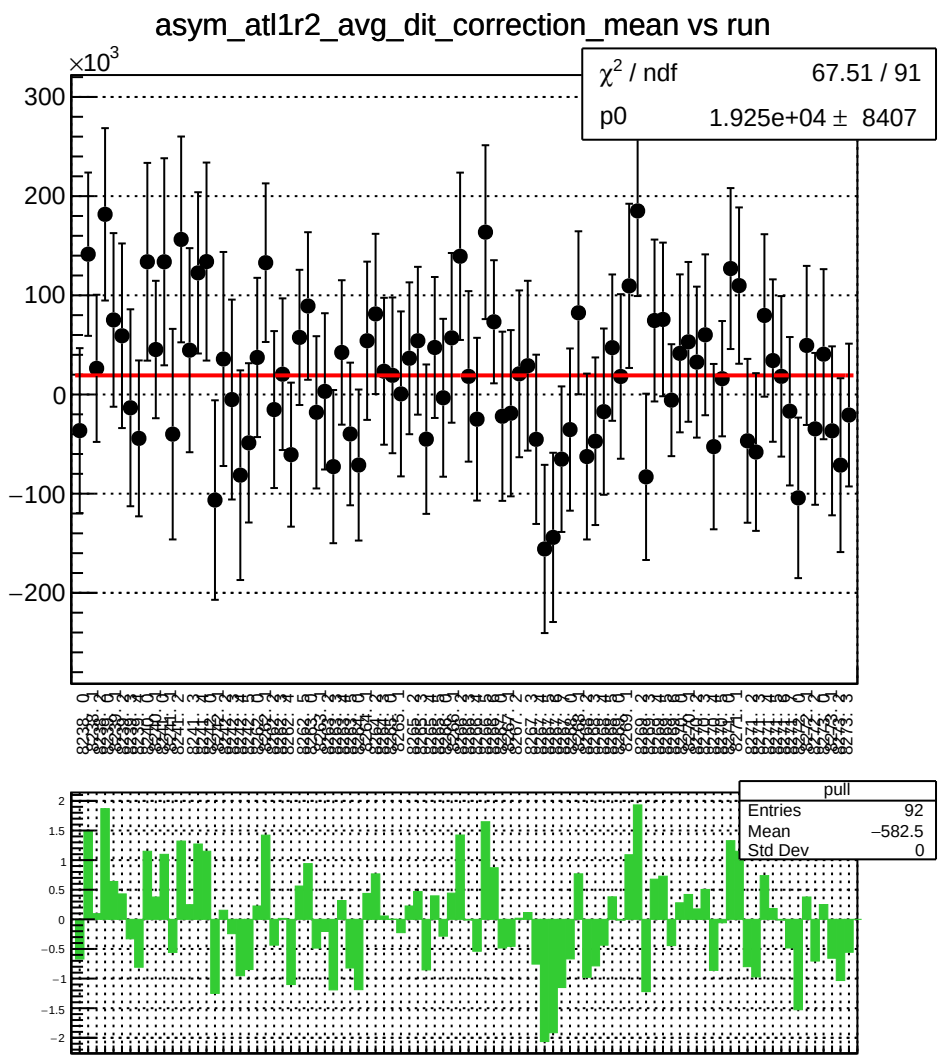

pull1D
Entries 92
Mean 0.005733
Std Dev 0.8559

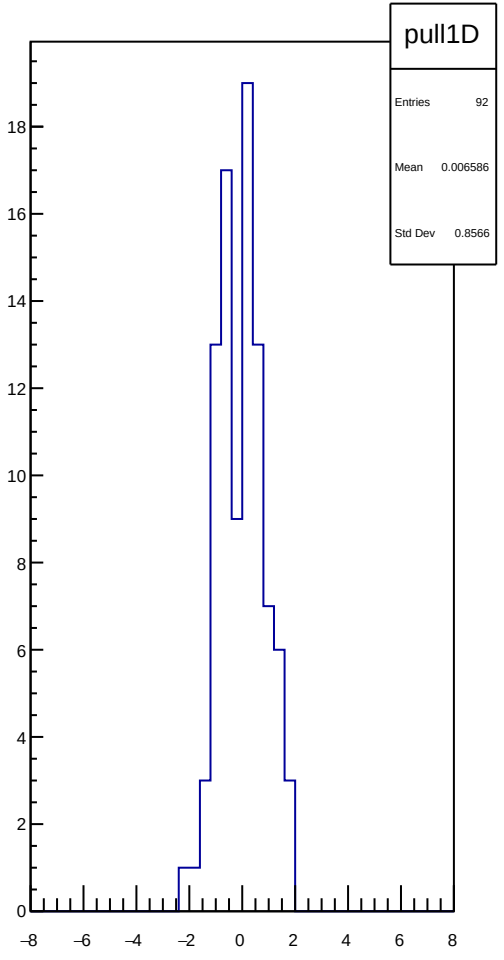

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.577e+04 / 91
p0 7813 ± 5.878
10000
9500
9000
8500
8000
7500
7000
6500

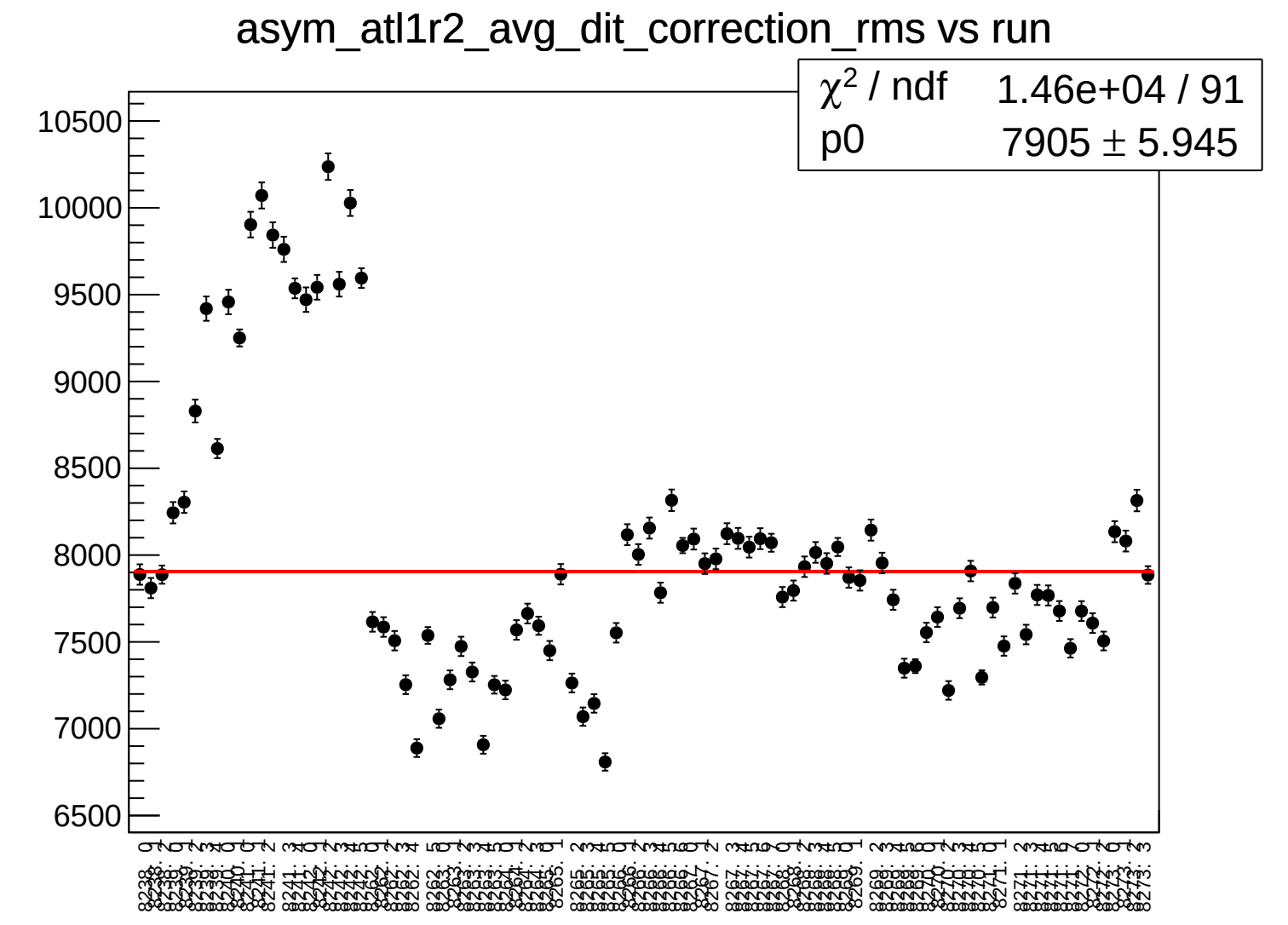

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 107.5 / 91
p0 2497 ± 1995
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −31.47
Std Dev 0
2
1
0
−1
−2

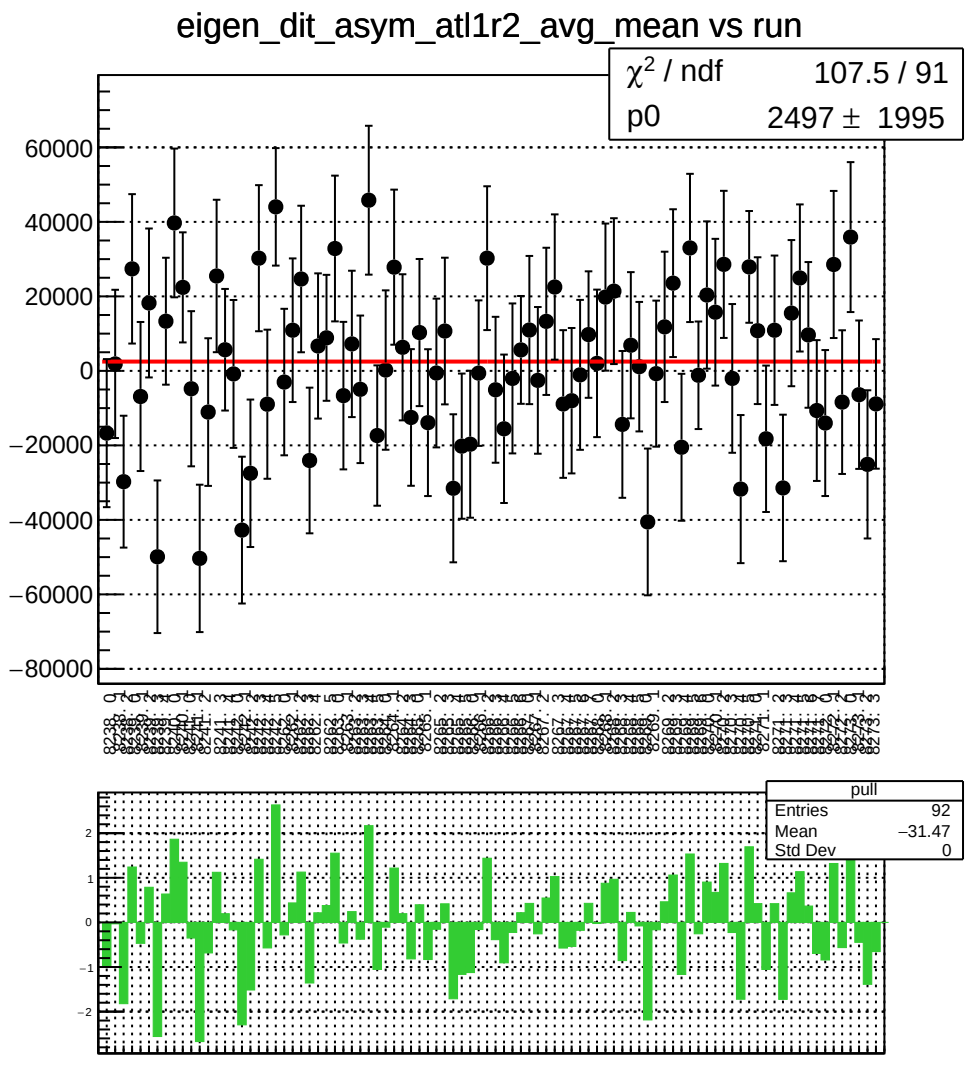

pull1D
Entries 92
Mean −0.01573
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

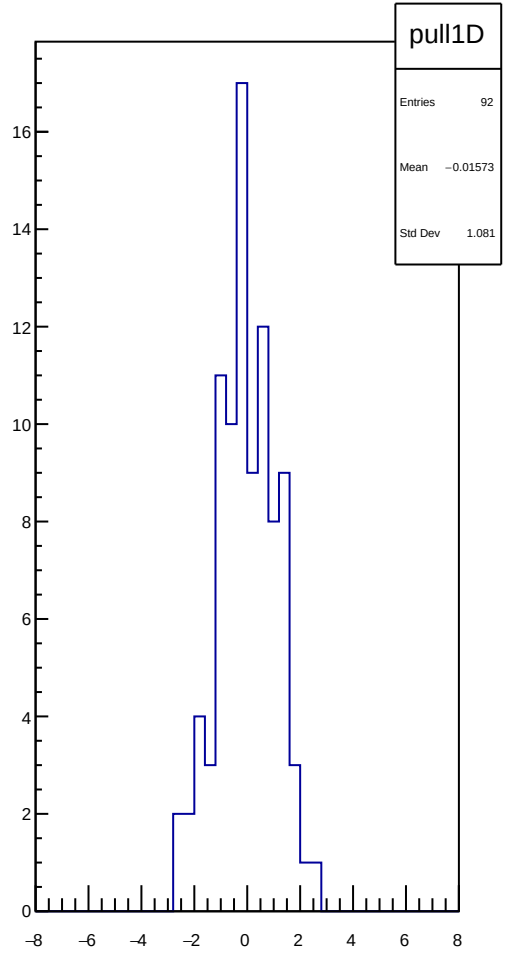

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 433.7 / 91
p0 1883 ± 1.411
2050
2000
1950
1900
1850
1800

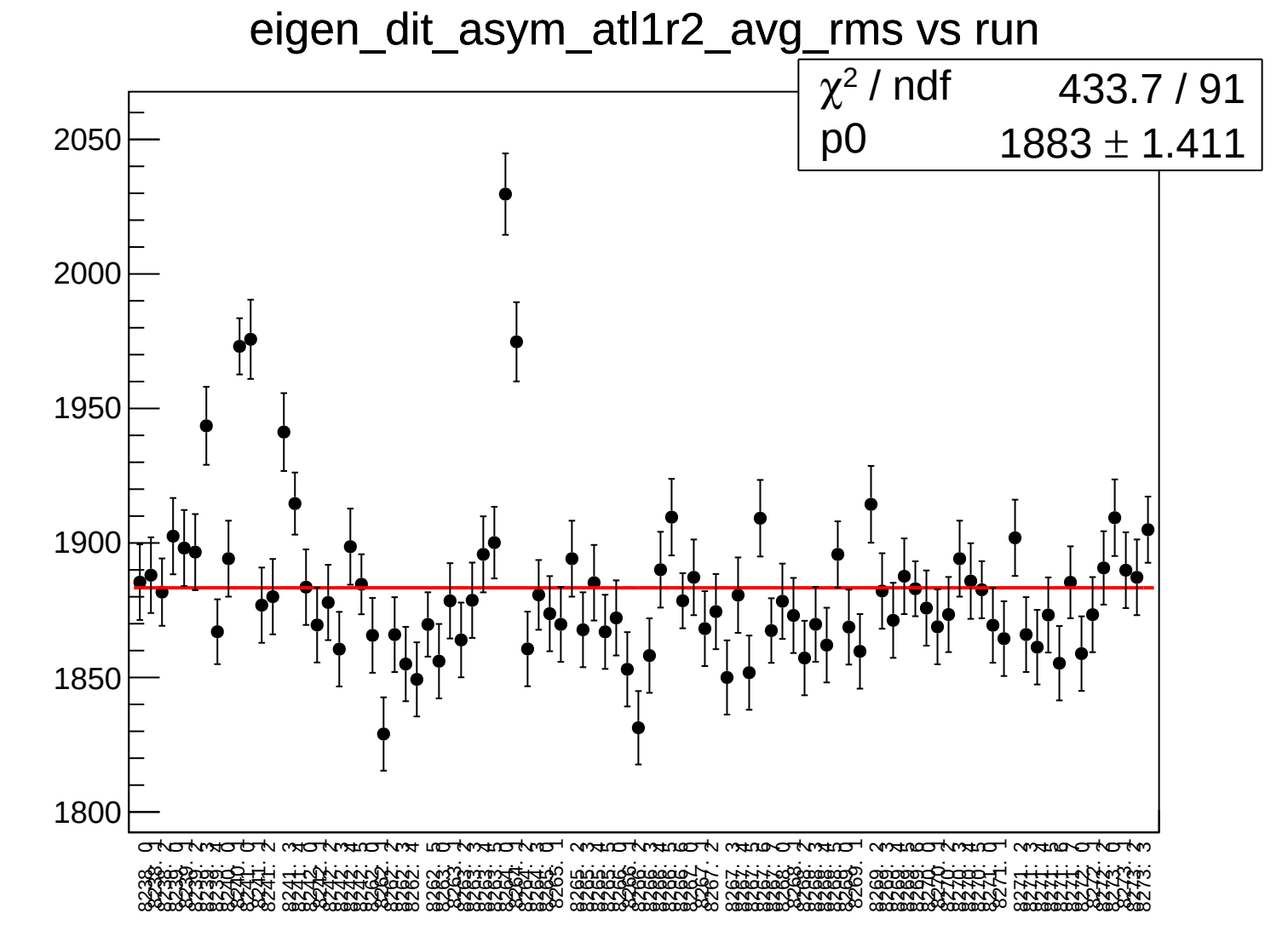

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 67.51 / 91
p0 1.925e+04 ± 8407
pull
Entries 92
Mean −582.5
Std Dev 0

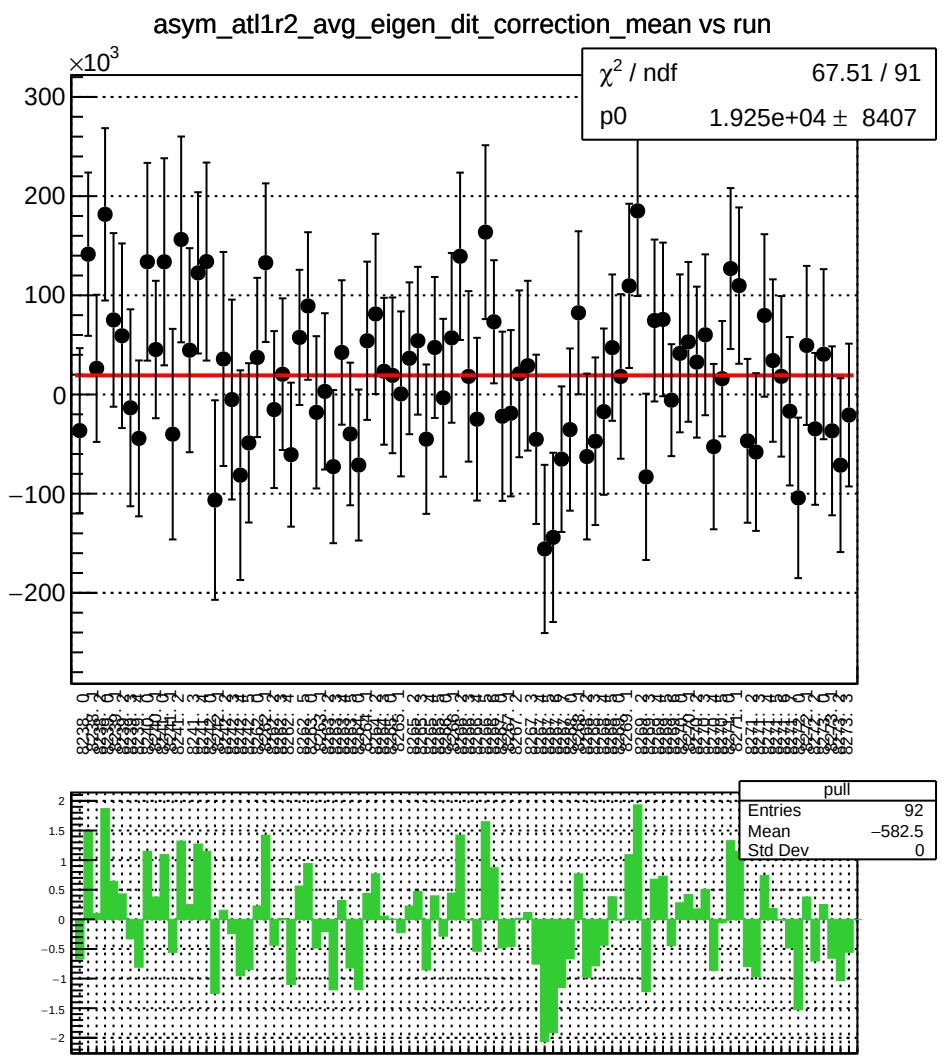

pull1D
Entries 92
Mean 0.006586
Std Dev 0.8566

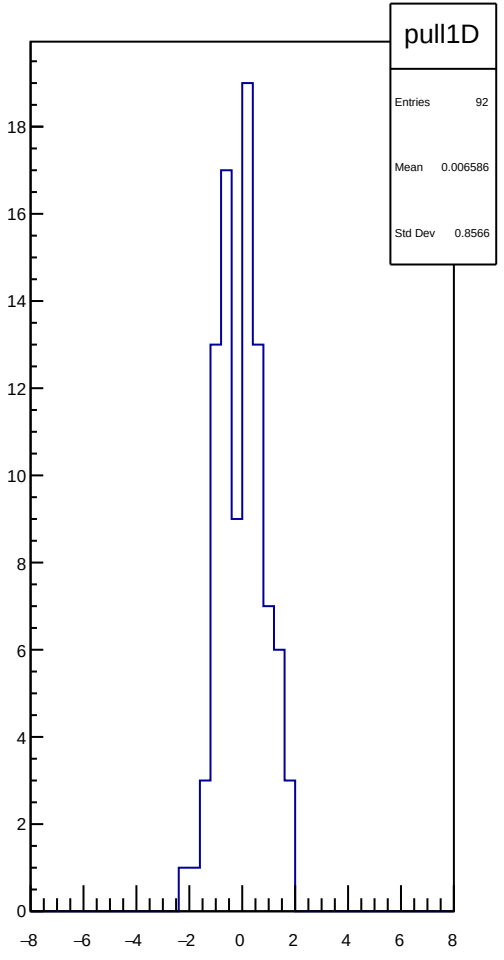

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 1.46e+04 / 91
p0 7905 ± 5.945
10500
10000
9500
9000
8500
8000
7500
7000
6500

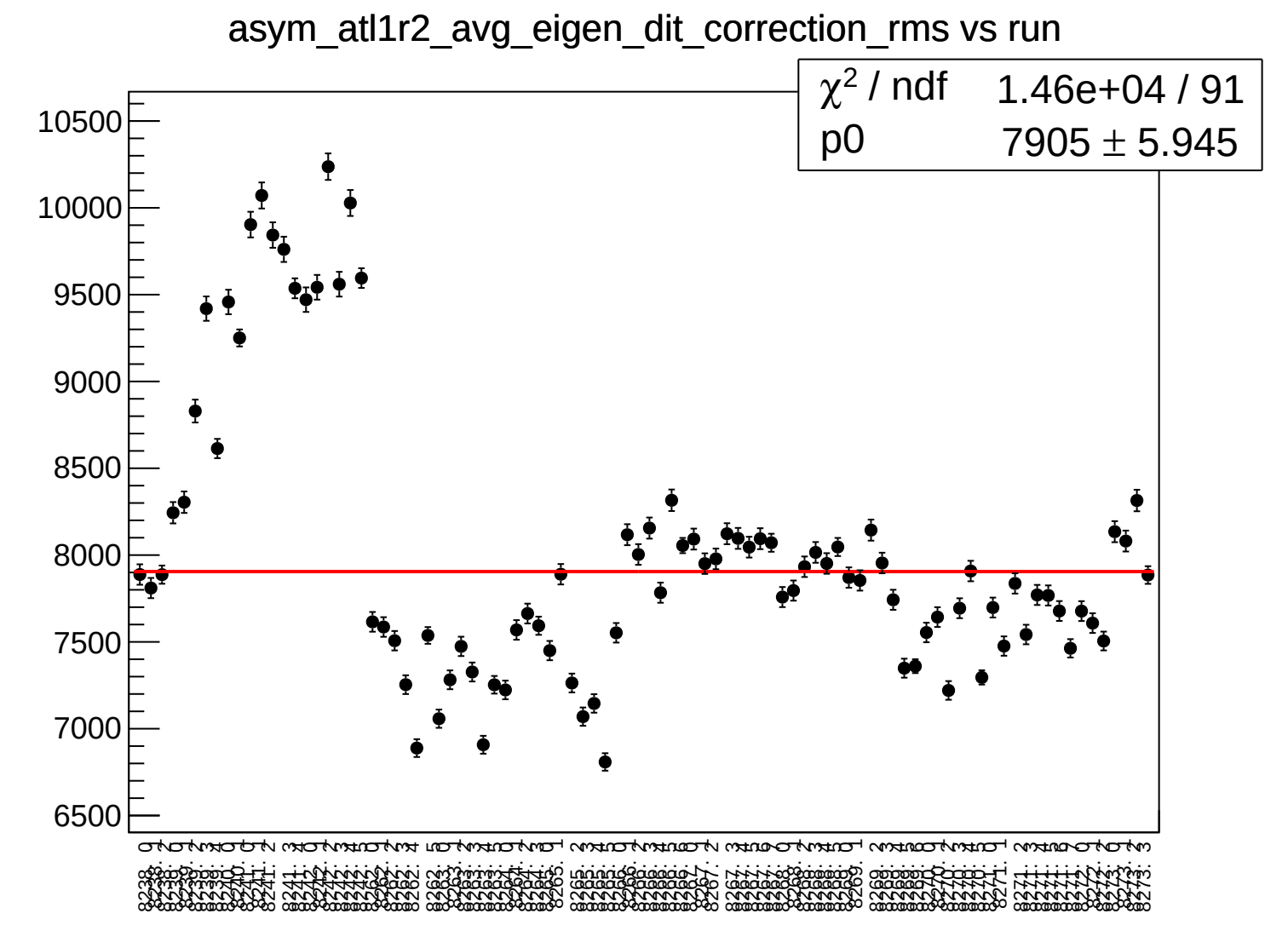

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 107.5 / 91
p0 2497 ± 1995
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −31.47
Std Dev 0
2
1
0
−1
−2

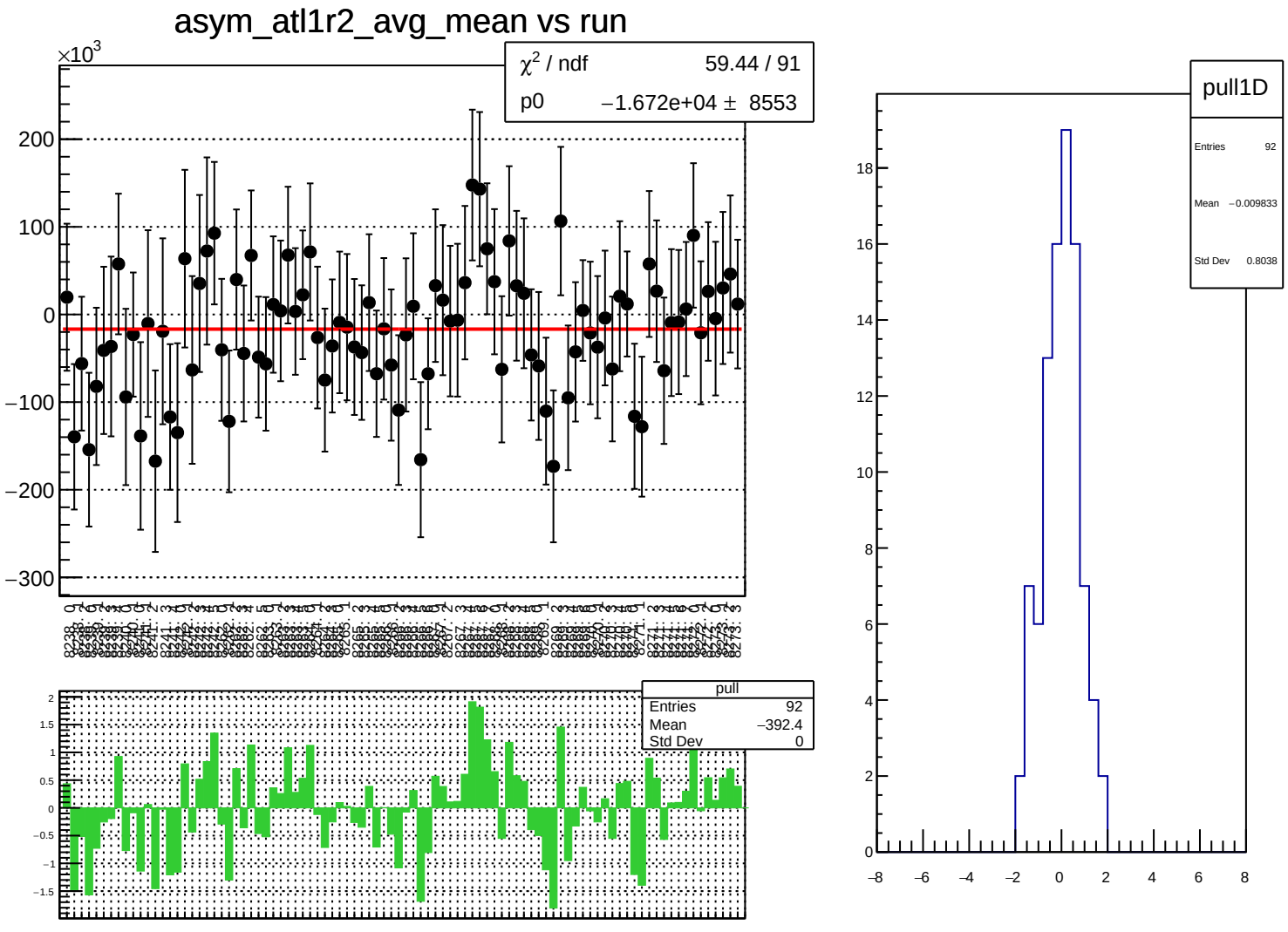

pull1D
Entries 92
Mean −0.01573
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

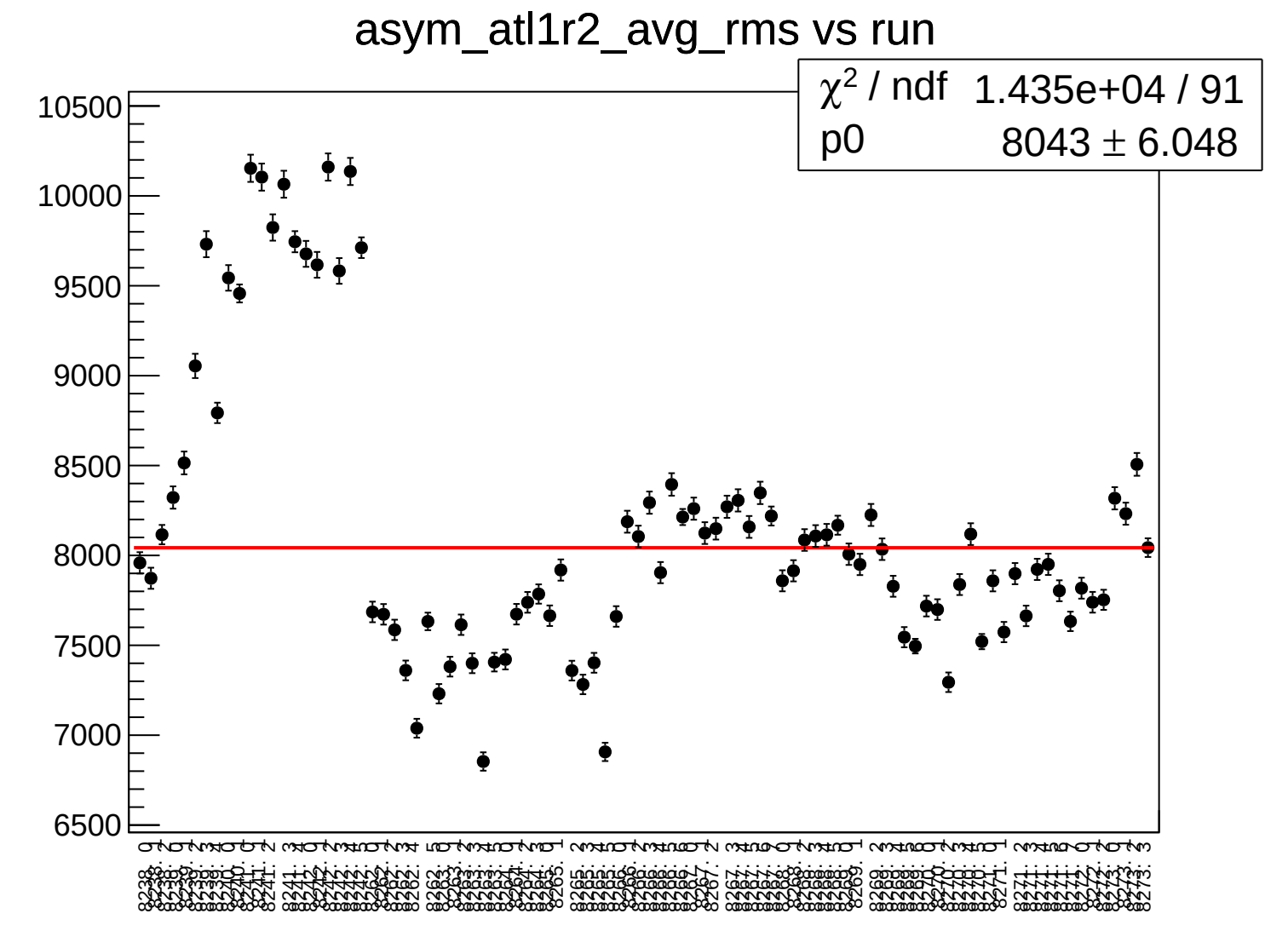

eigen_dit_asym_atl1r2_avg_rms vs run
$\chi^2$ / ndf 433.7 / 91
p0 1883 ± 1.411
2050
2000
1950
1900
1850
1800

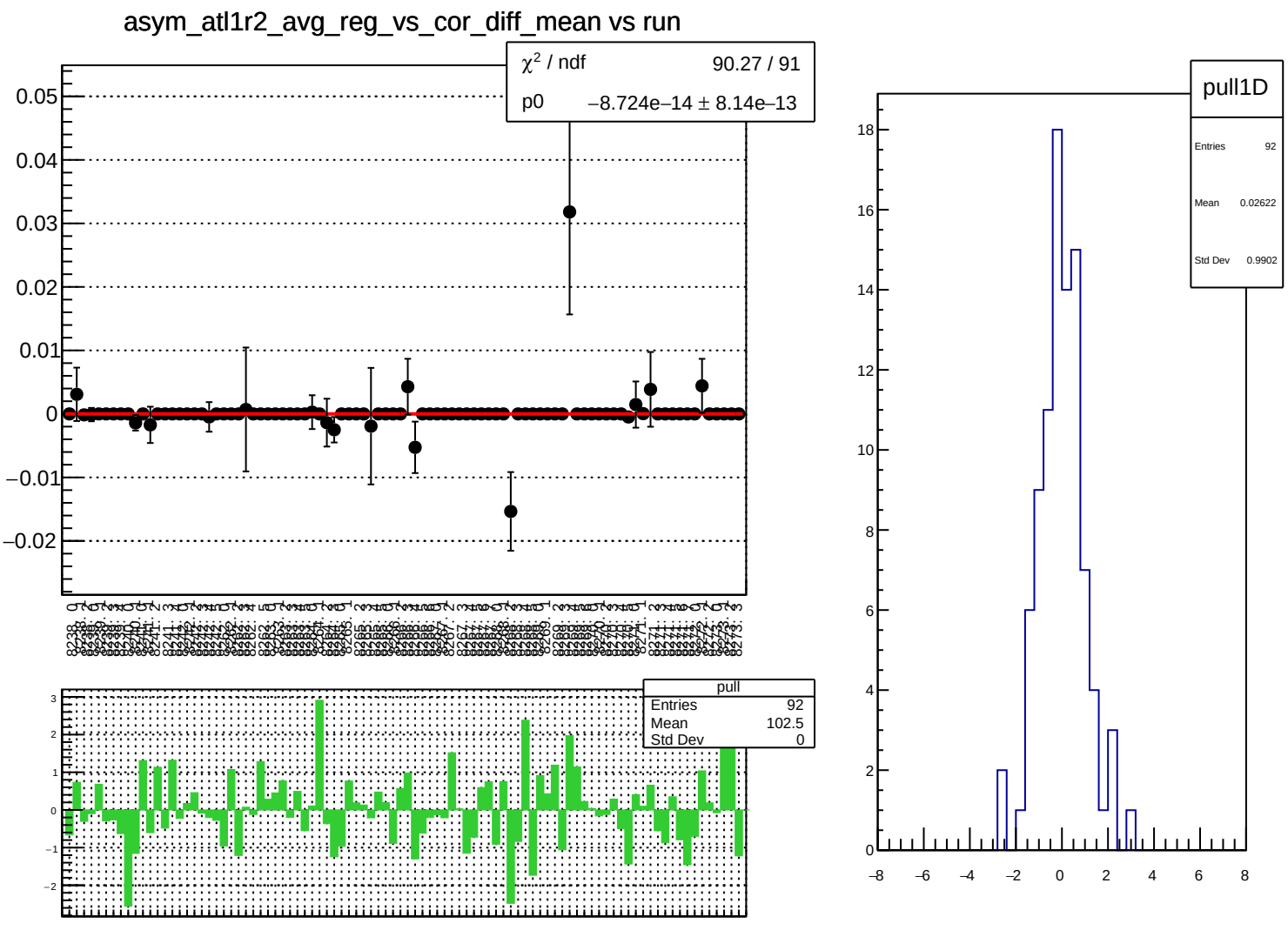

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 67.51 / 91
p0 1.925e+04 ± 8407
300
200
100
0
−100
−200
pull
Entries 92
Mean −582.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

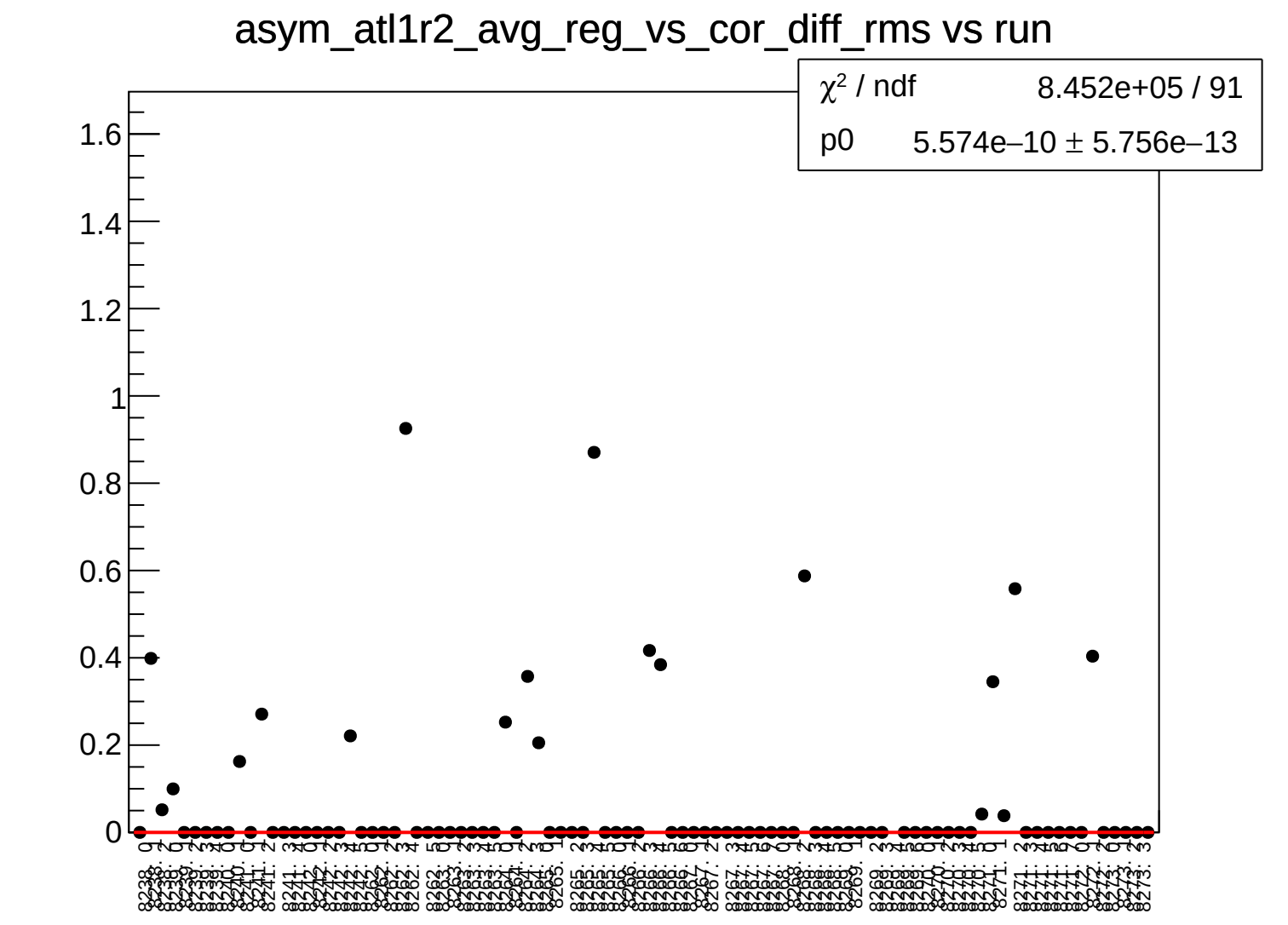

pull1D
Entries 92
Mean 0.006586
Std Dev 0.8566
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

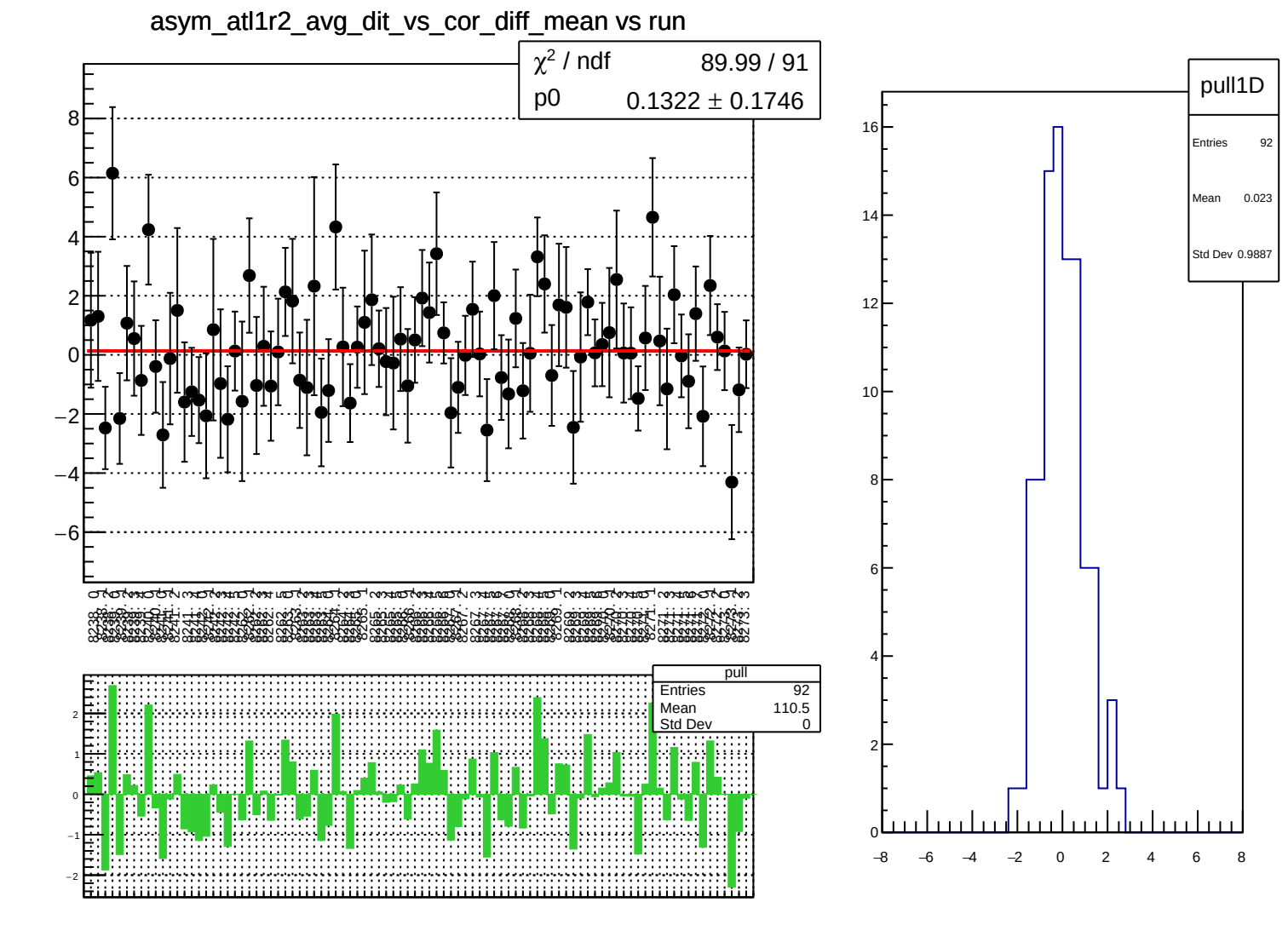

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.46e+04 / 91
p0 7905 ± 5.945
10500
10000
9500
9000
8500
8000
7500
7000
6500

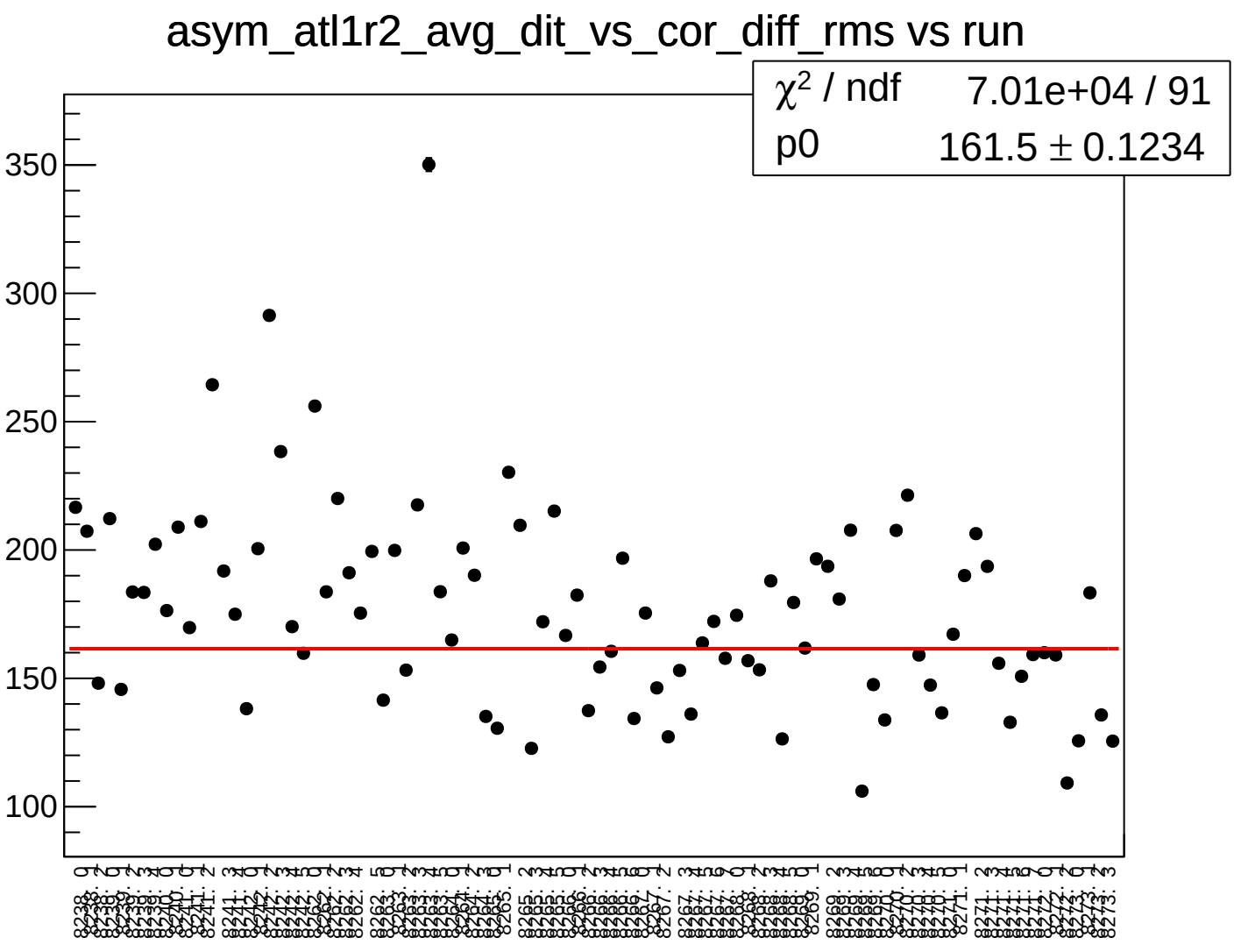

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 59.44 / 91
p0 −1.672e+04 ± 8553
200
100
0
−100
−200
−300
pull
Entries 92
Mean −392.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.009833
Std Dev 0.8038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

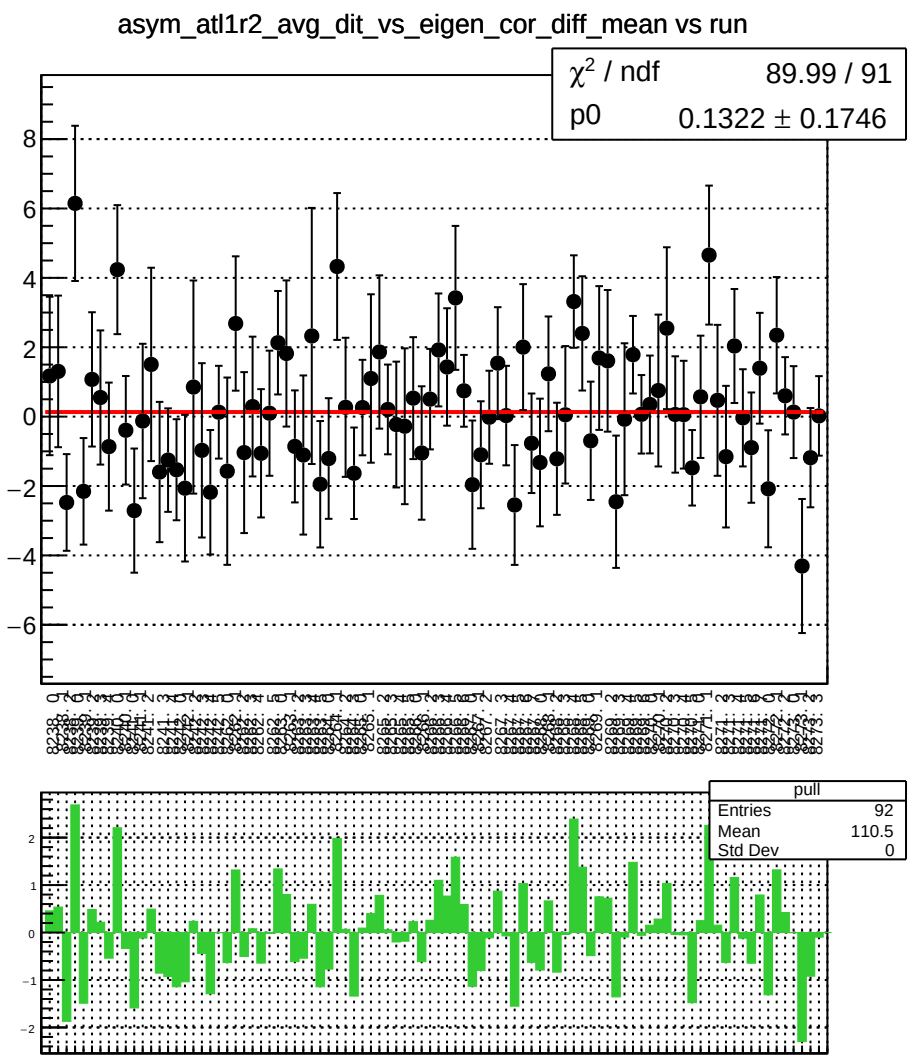

asym_atl1r2_avg_rms vs run
χ² / ndf 1.435e+04 / 91
p0 8043 ± 6.048
10500
10000
9500
9000
8500
8000
7500
7000
6500

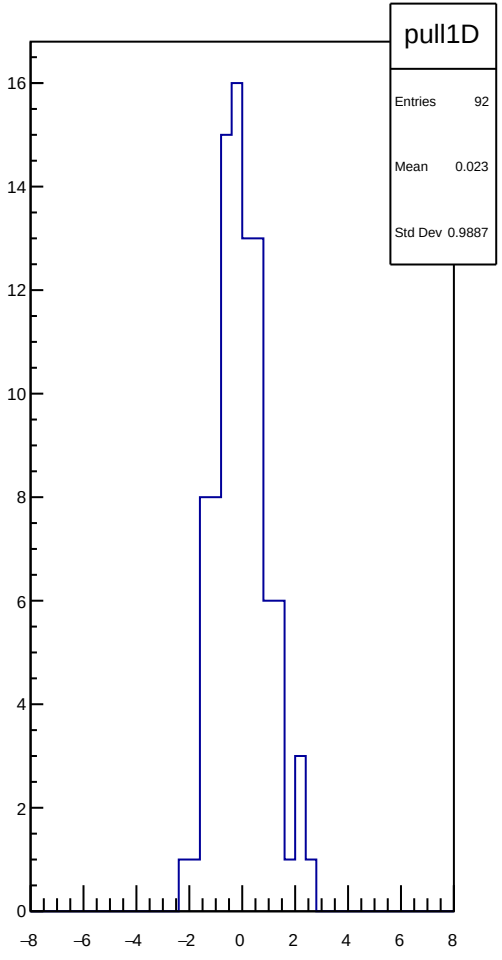

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.27 / 91
p0 −8.724e−14 ± 8.14e−13
pull
Entries 92
Mean 102.5
Std Dev 0
pull1D
Entries 92
Mean 0.02622
Std Dev 0.9902

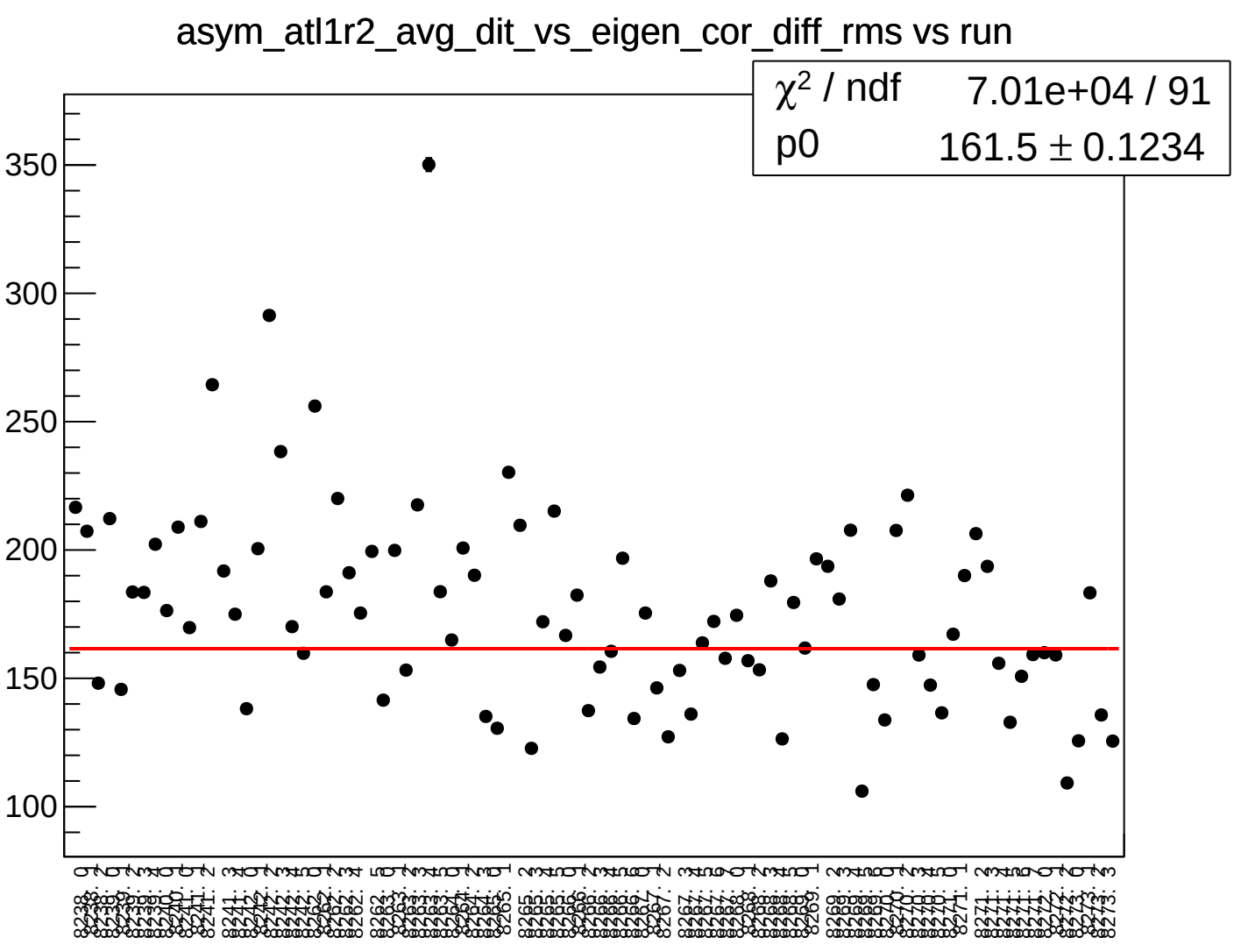

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.452e+05 / 91
p0 5.574e−10 ± 5.756e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

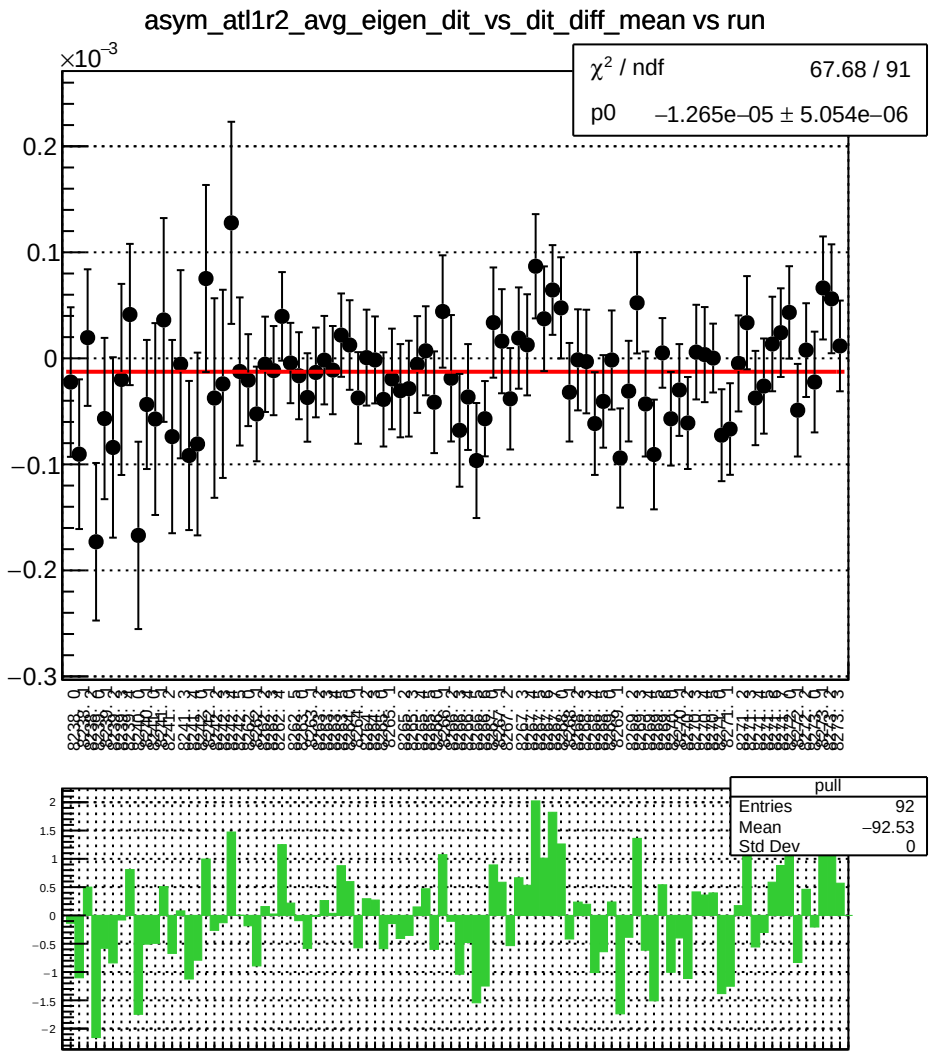

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.99 / 91
p0 0.1322 ± 0.1746
pull
Entries 92
Mean 110.5
Std Dev 0
pull1D
Entries 92
Mean 0.023
Std Dev 0.9887

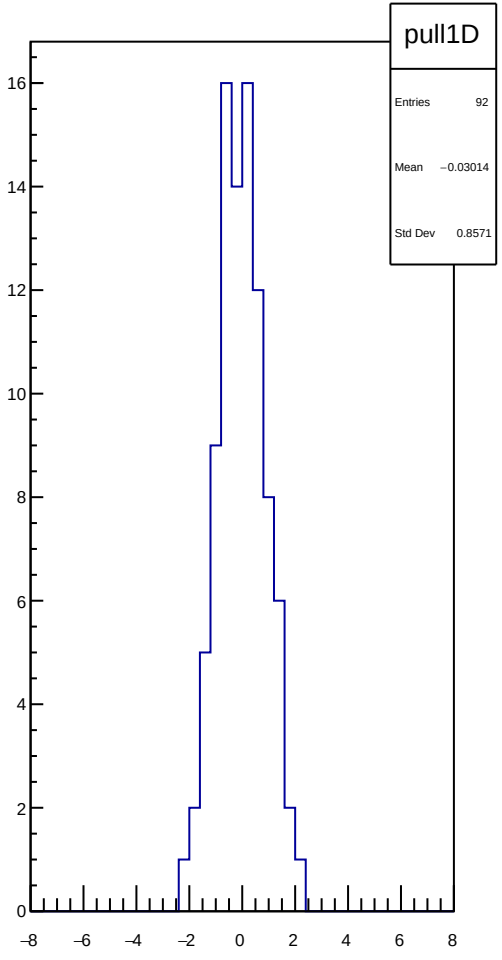

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.01e+04 / 91
p0 161.5 ± 0.1234
350
300
250
200
150
100

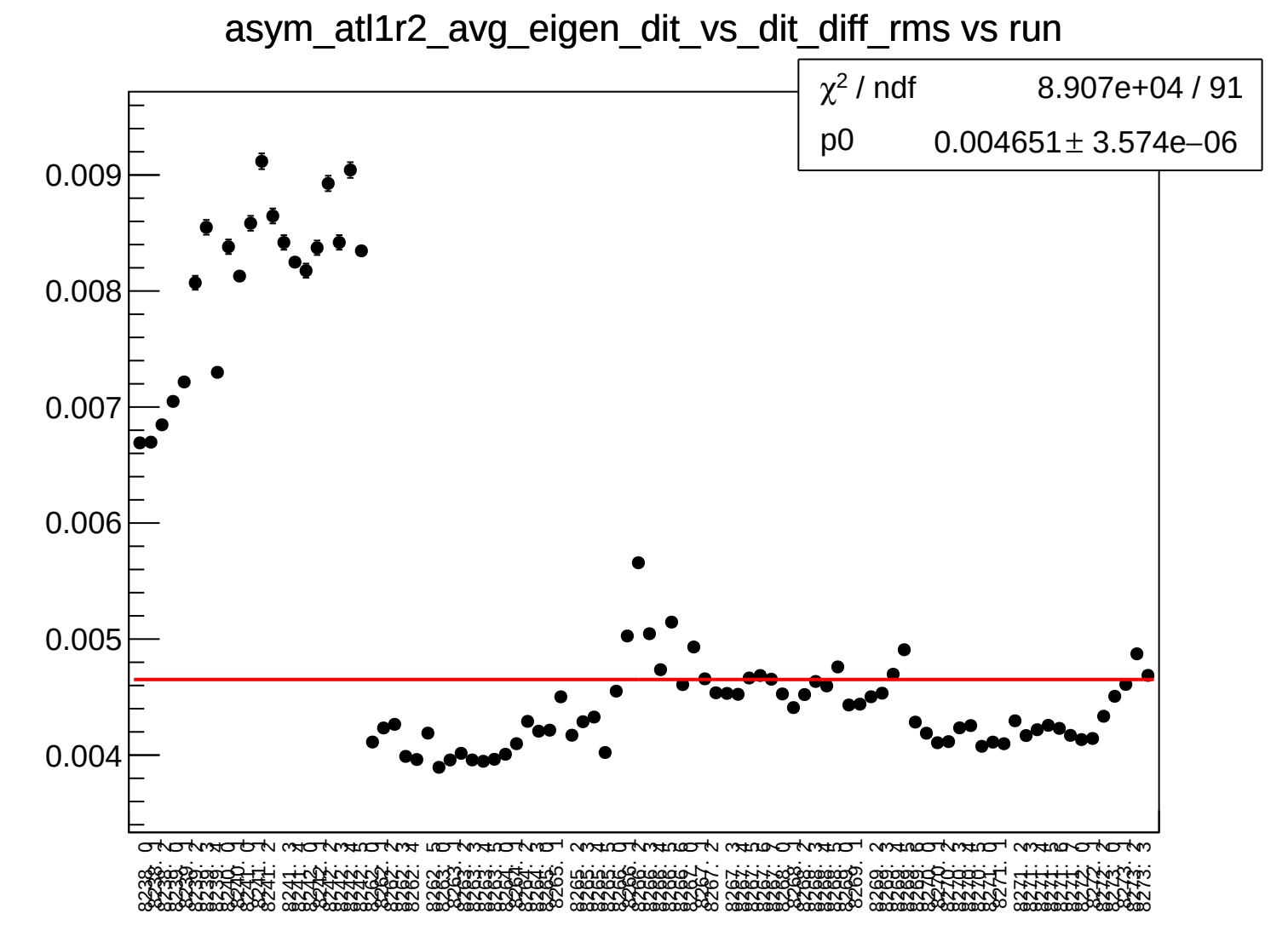

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.99 / 91
p0 0.1322 ± 0.1746
pull
Entries 92
Mean 110.5
Std Dev 0

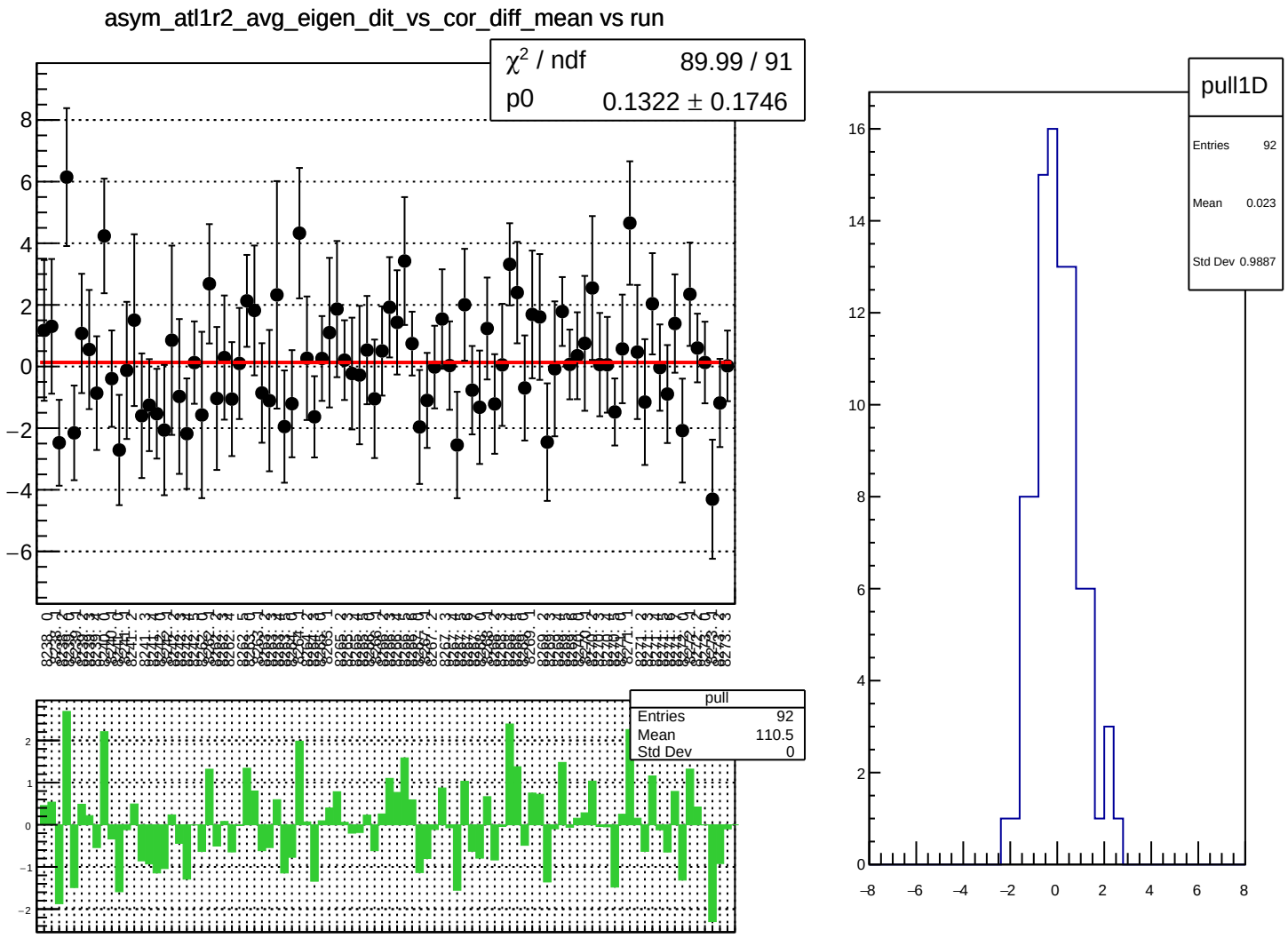

pull1D
Entries 92
Mean 0.023
Std Dev 0.9887

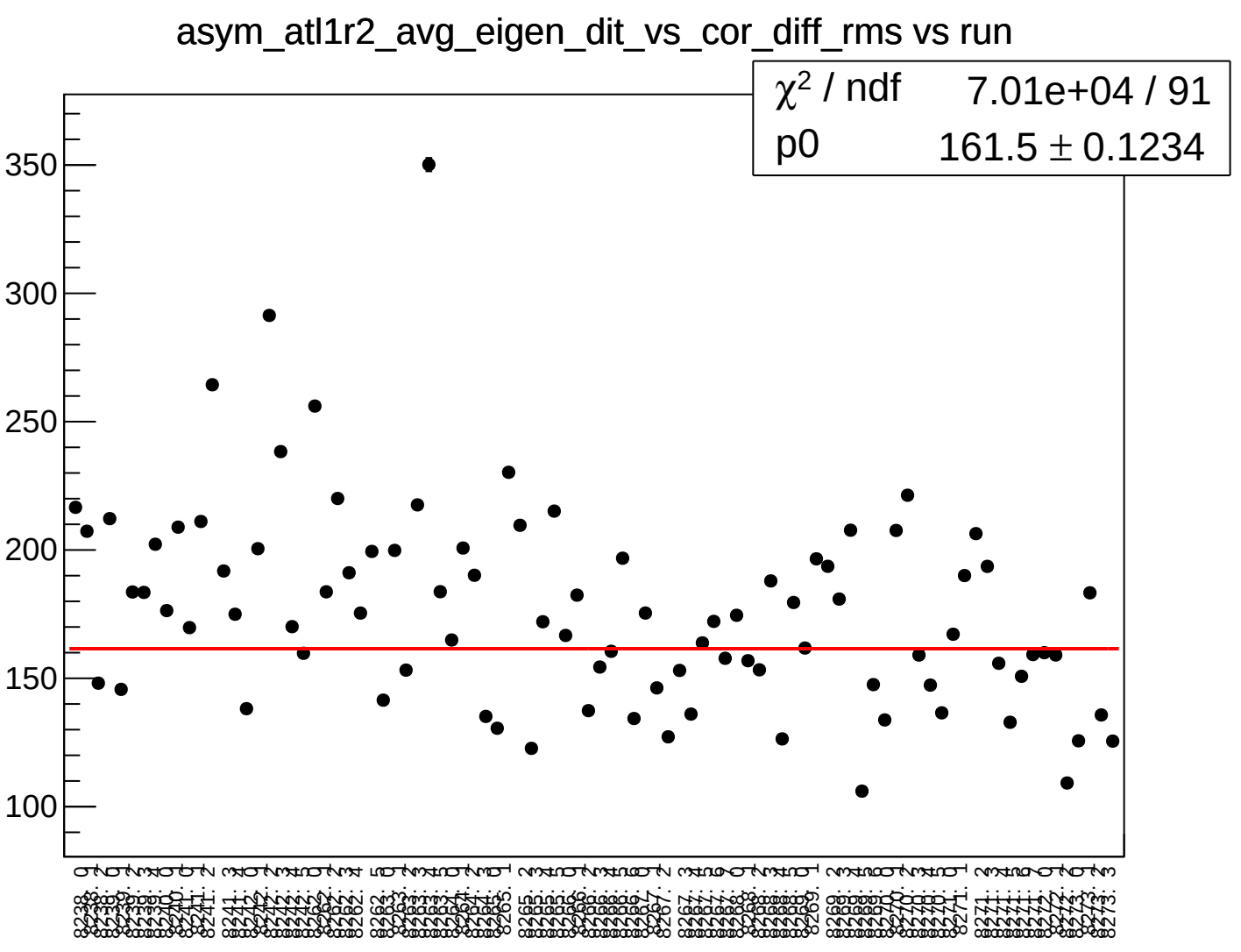

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.01e+04 / 91
p0 161.5 ± 0.1234
350
300
250
200
150
100

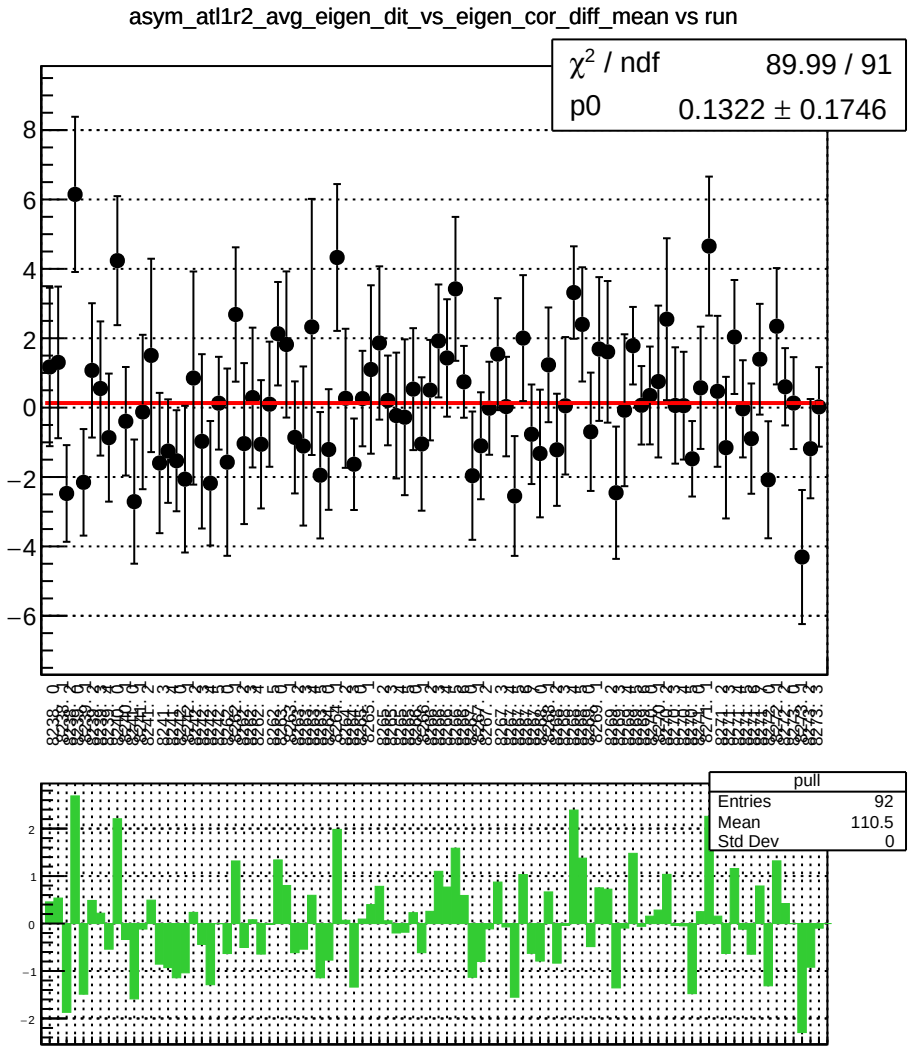

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 67.68 / 91
p0 −1.265e−05 ± 5.054e−06
pull
Entries 92
Mean −92.53
Std Dev 0

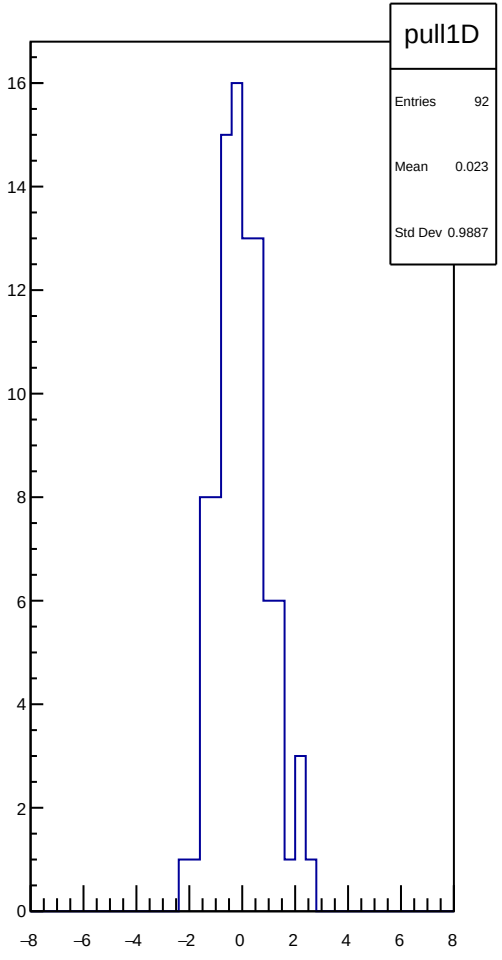

pull1D
Entries 92
Mean −0.03014
Std Dev 0.8571

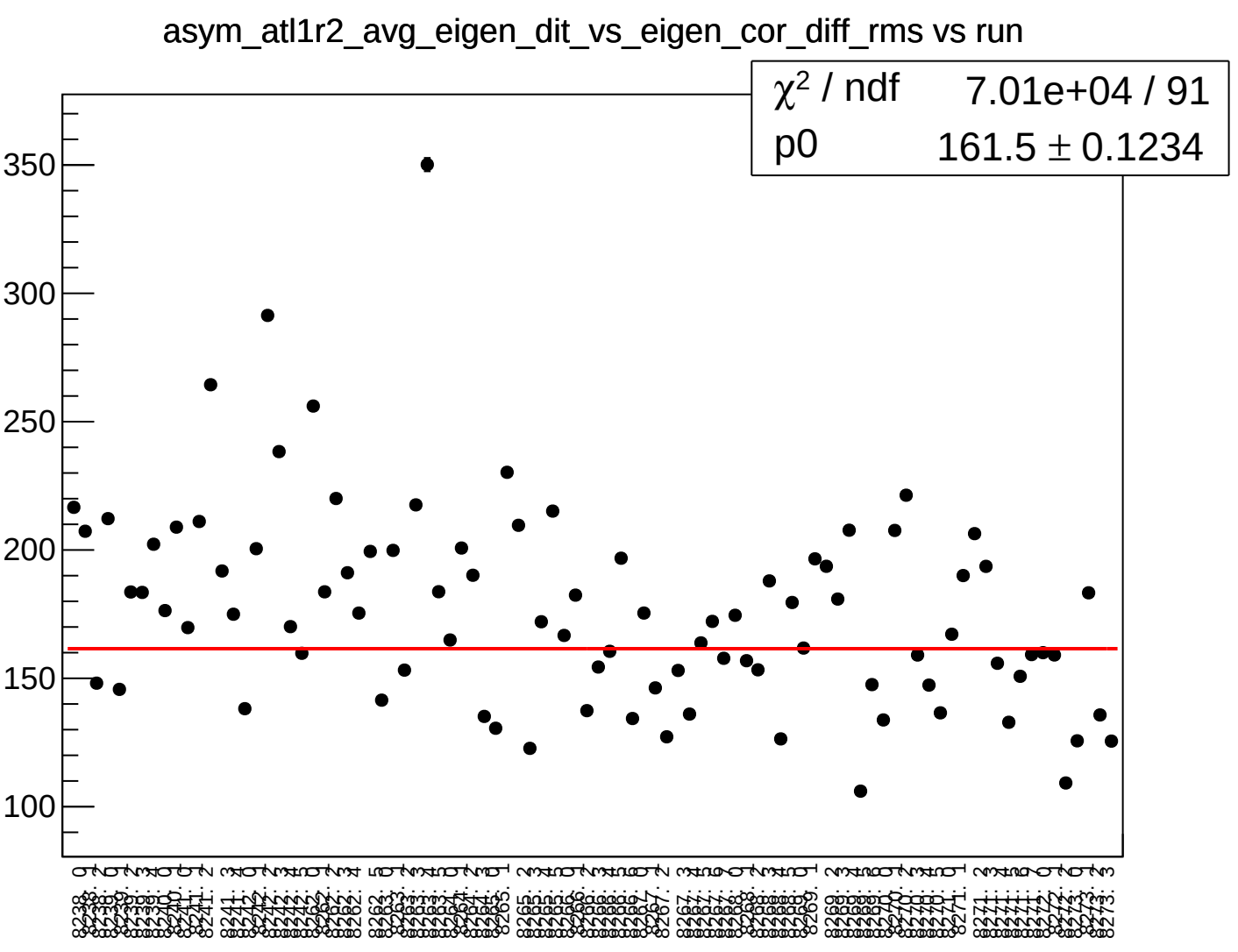

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.907e+04 / 91
p0 0.004651 ± 3.574e−06
0.009
0.008
0.007
0.006
0.005
0.004

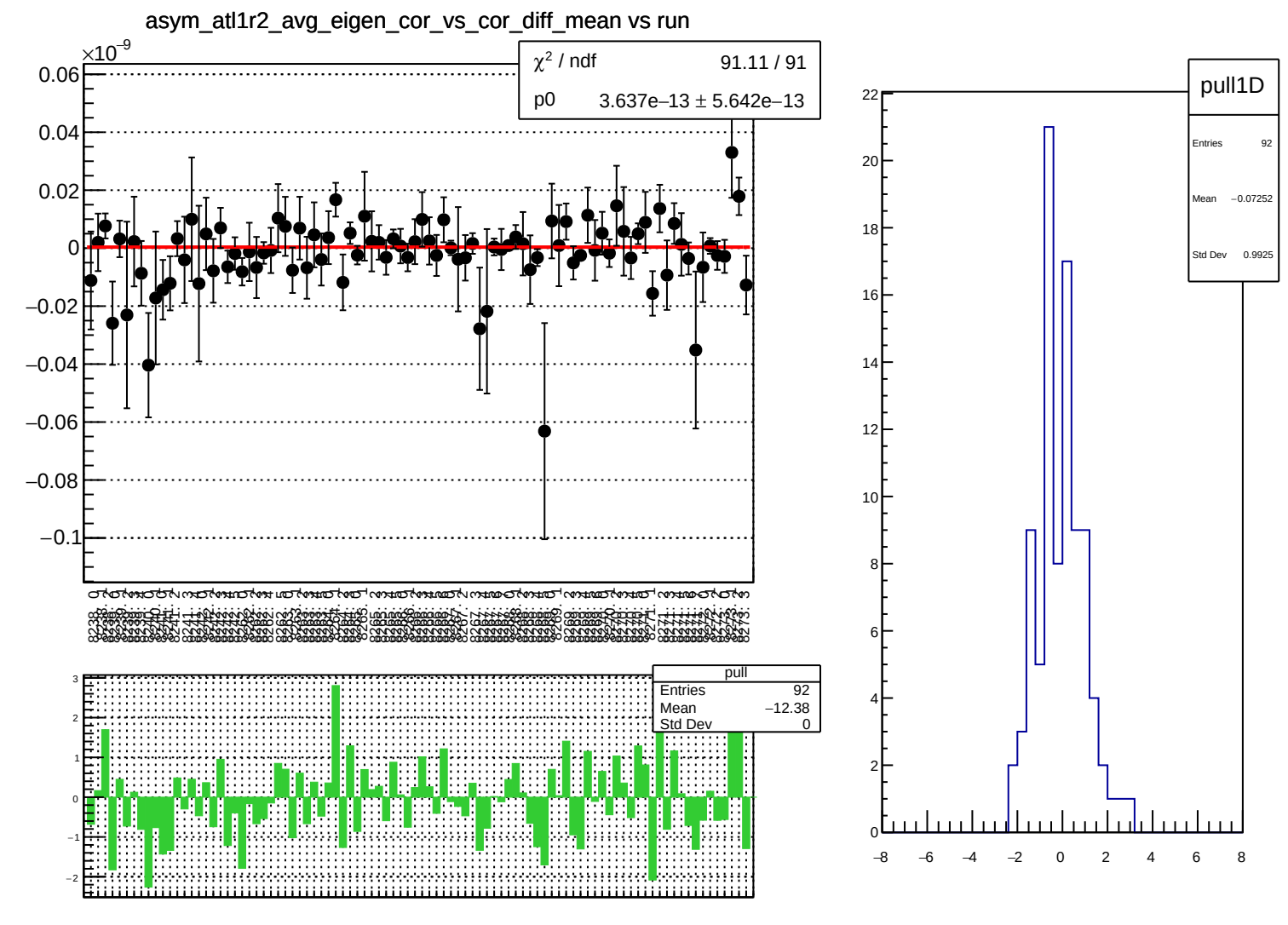

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.99 / 91
p0 0.1322 ± 0.1746
pull
Entries 92
Mean 110.5
Std Dev 0
pull1D
Entries 92
Mean 0.023
Std Dev 0.9887

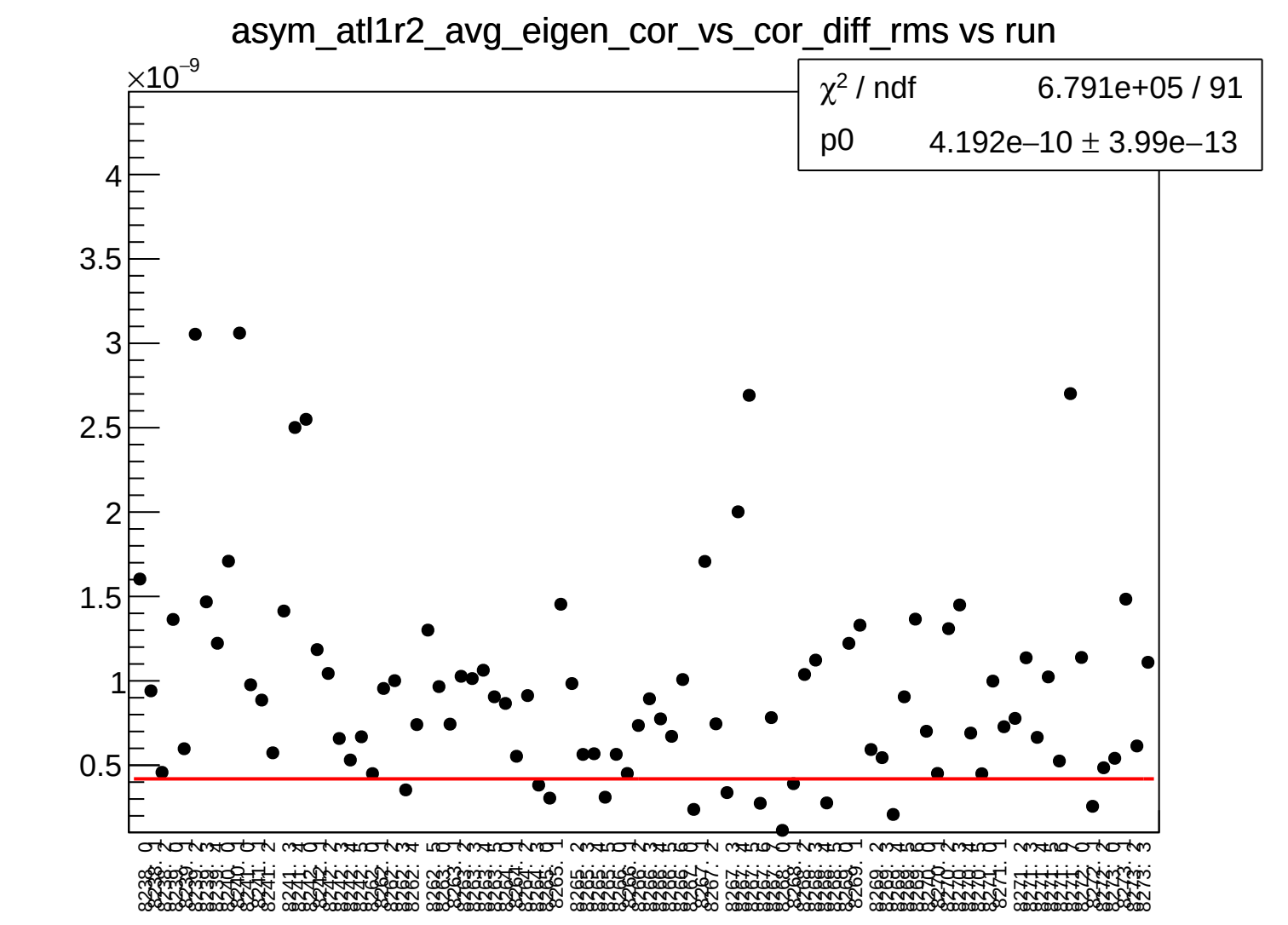

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.01e+04 / 91
p0 161.5 ± 0.1234
350
300
250
200
150
100

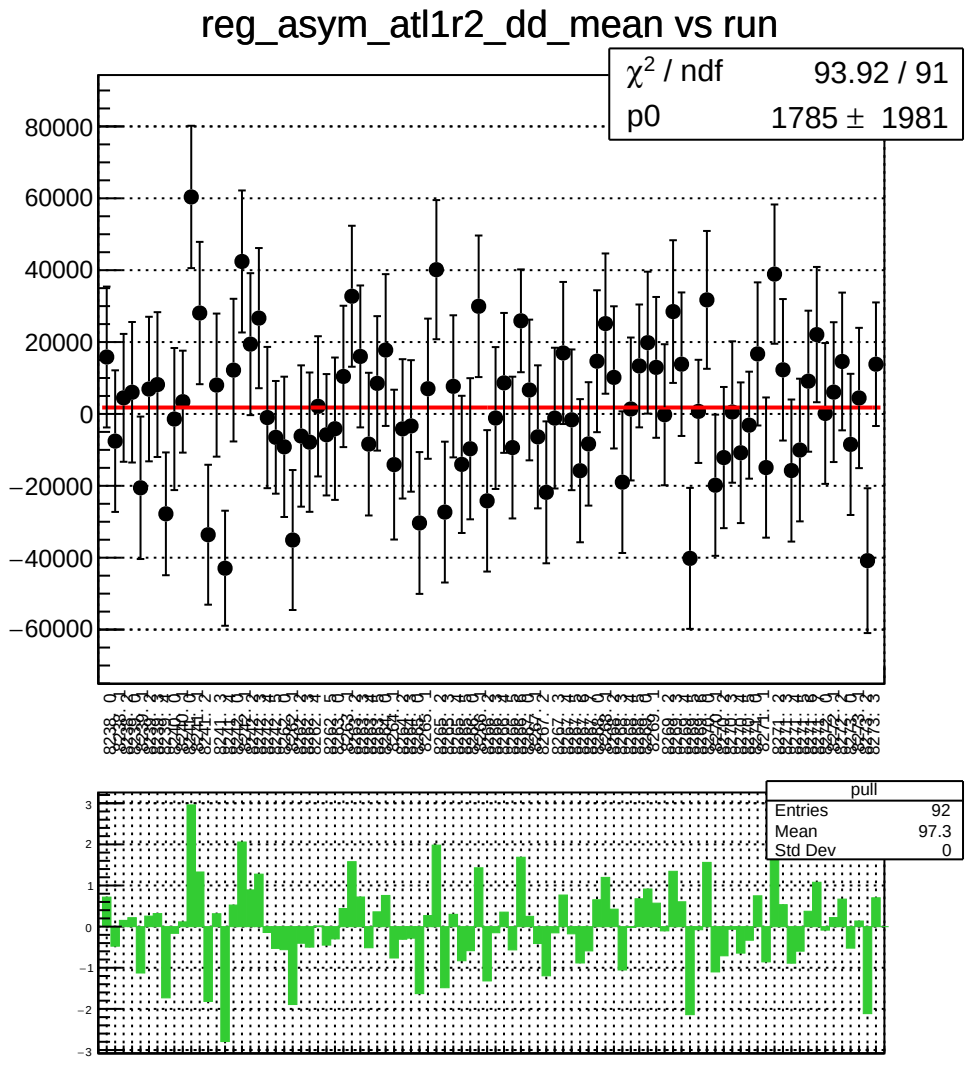

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.99 / 91
p0 0.1322 ± 0.1746
pull
Entries 92
Mean 110.5
Std Dev 0

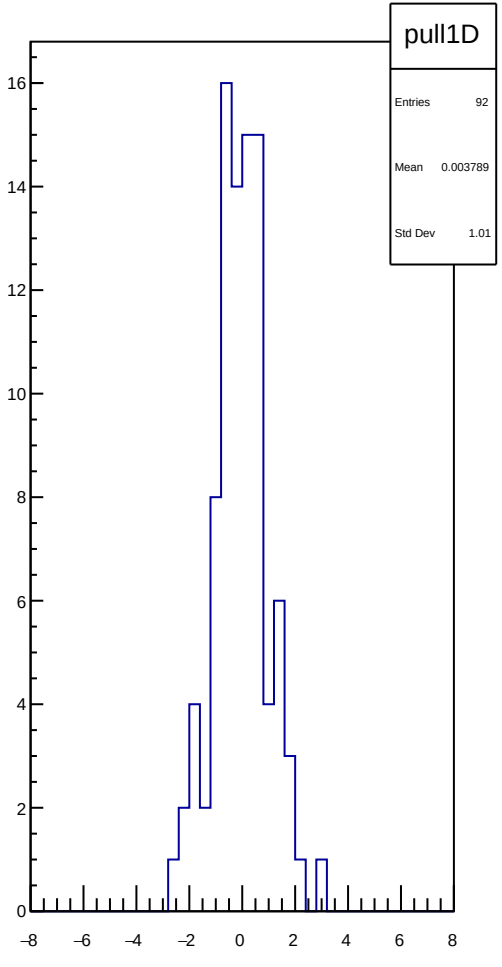

pull1D
Entries 92
Mean 0.023
Std Dev 0.9887

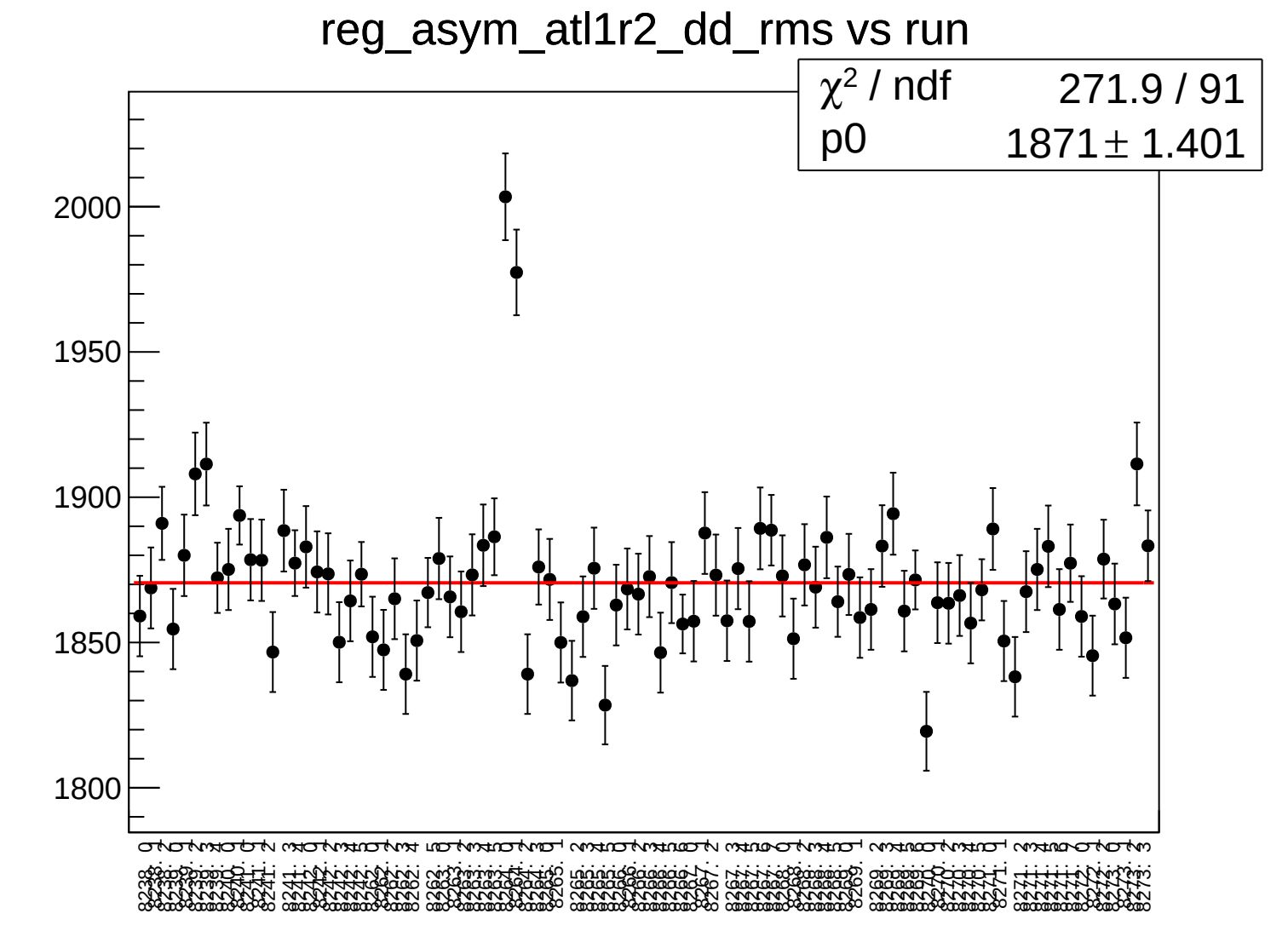

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.01e+04 / 91
p0 161.5 ± 0.1234
350
300
250
200
150
100

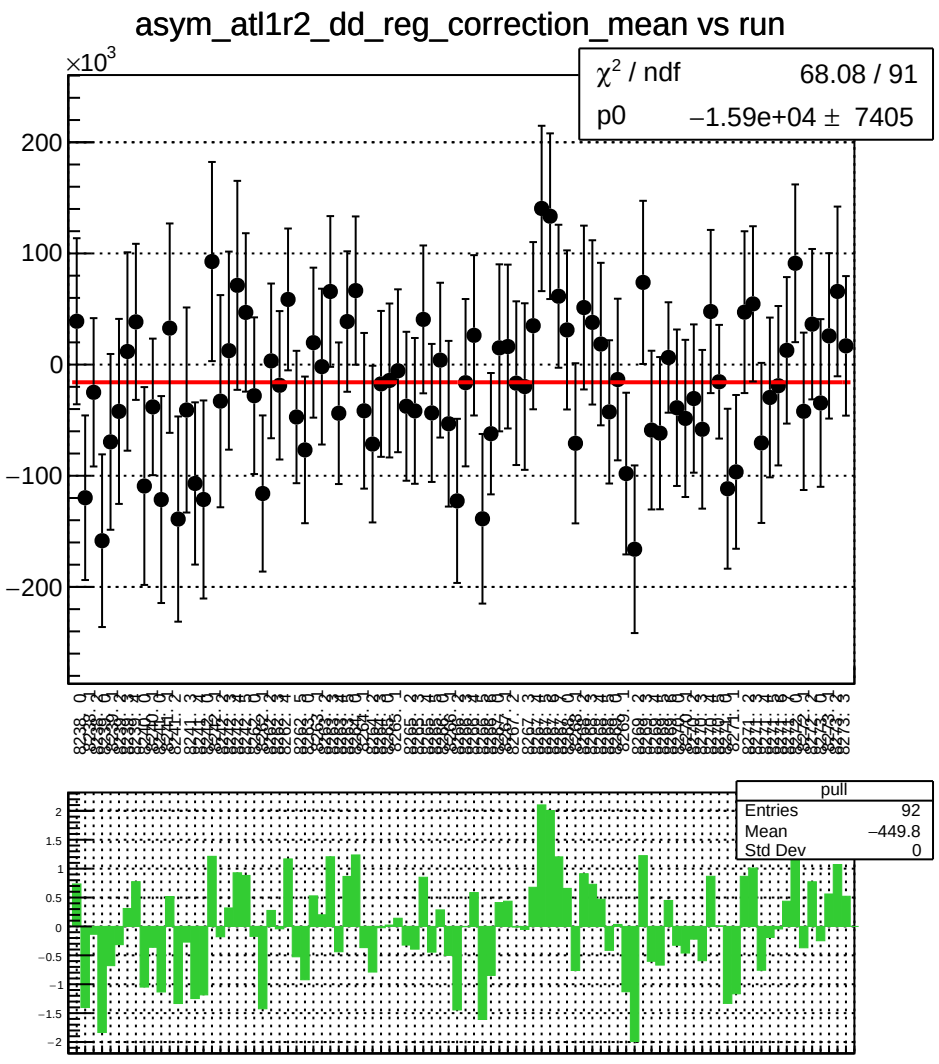

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 91.11 / 91
p0 3.637e−13 ± 5.642e−13
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 92
Mean −12.38
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.07252
Std Dev 0.9925
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

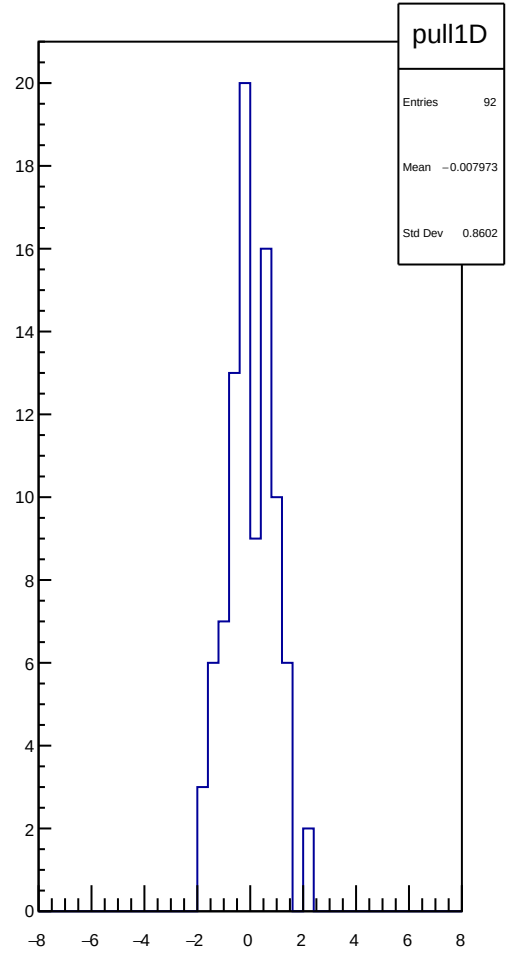

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.791e+05 / 91
p0 4.192e−10 ± 3.99e−13
4
3.5
3
2.5
2
1.5
1
0.5

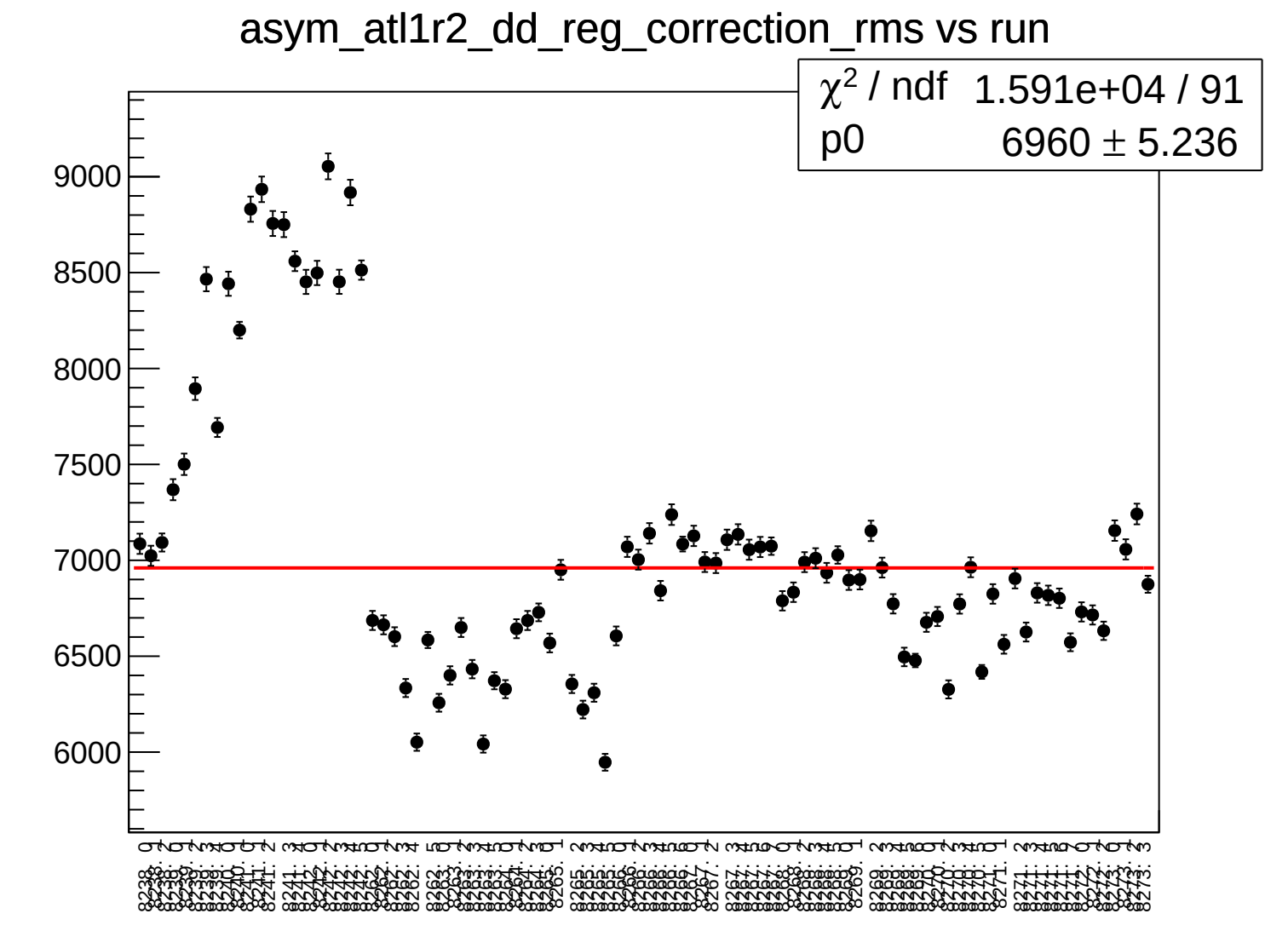

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 93.92 / 91
p0 1785 ± 1981
pull
Entries 92
Mean 97.3
Std Dev 0

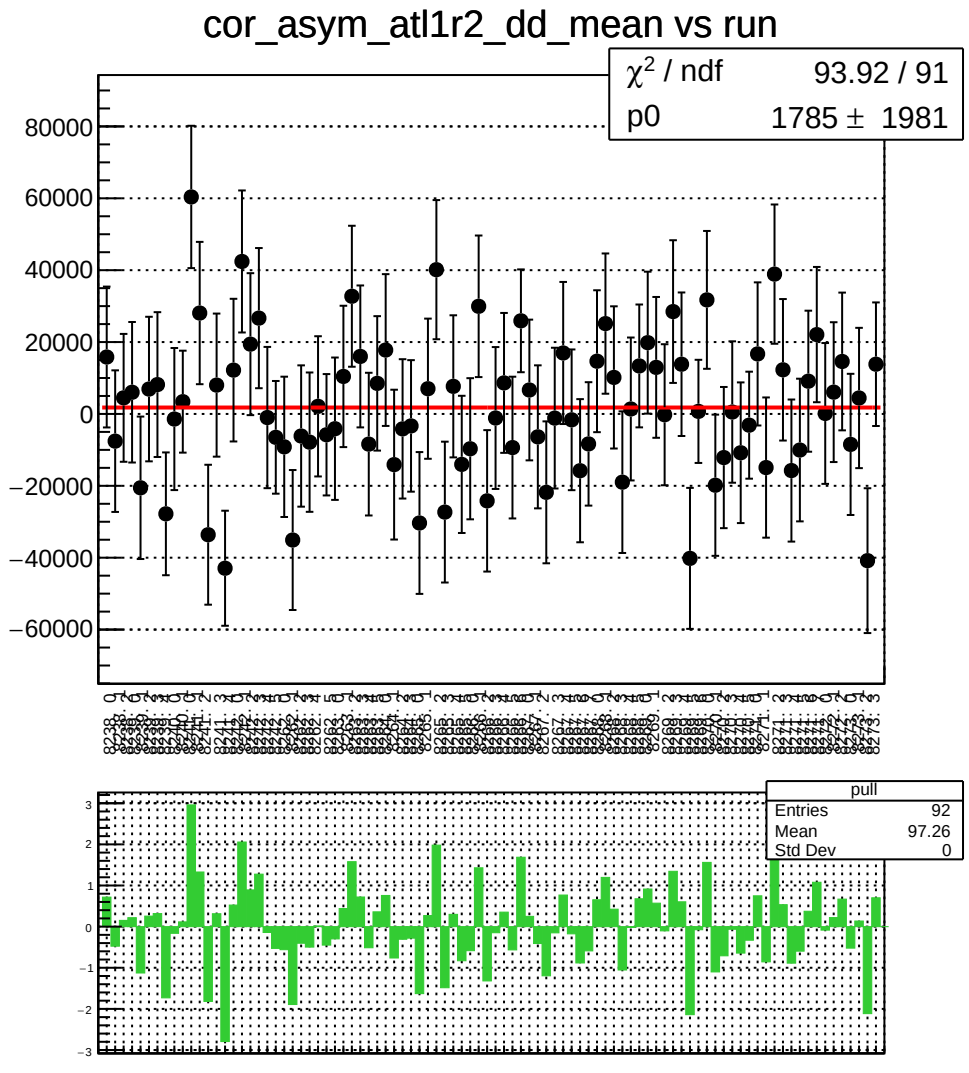

pull1D
Entries 92
Mean 0.003789
Std Dev 1.01

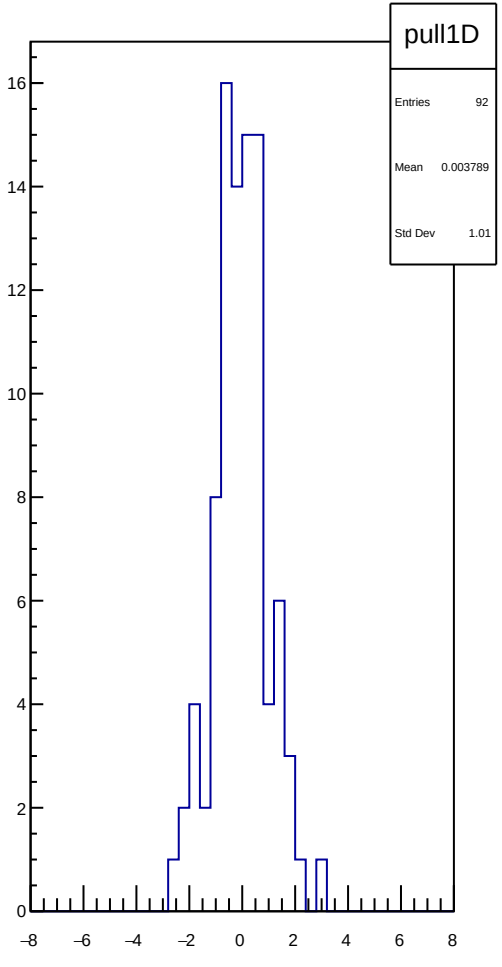

reg_asym_atl1r2_dd_rms vs run
$\chi^2$ / ndf 271.9 / 91
p0 1871 ± 1.401
2000
1950
1900
1850
1800

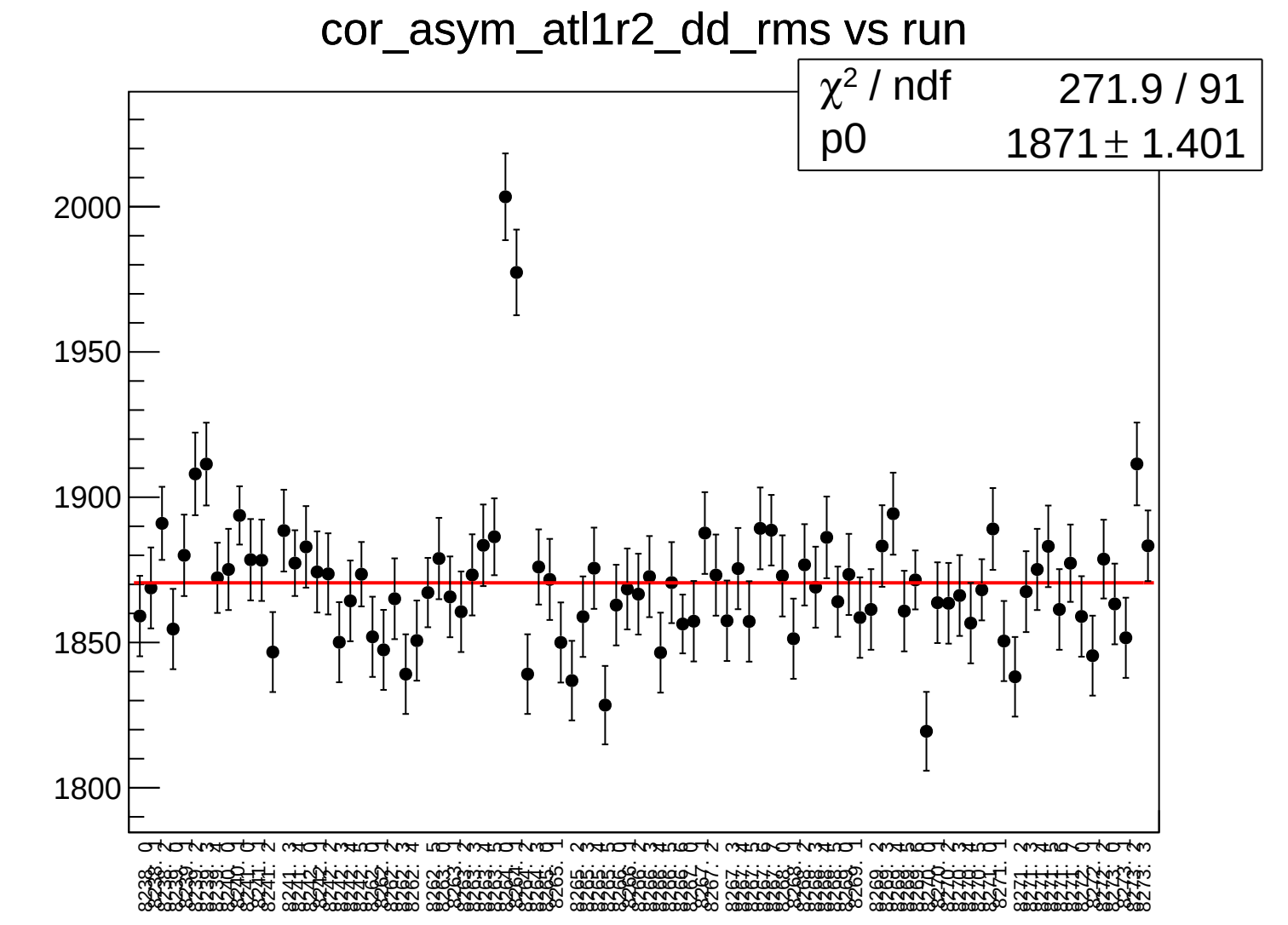

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 68.08 / 91
p0 −1.59e+04 ± 7405
200
100
0
−100
−200
pull
Entries 92
Mean −449.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

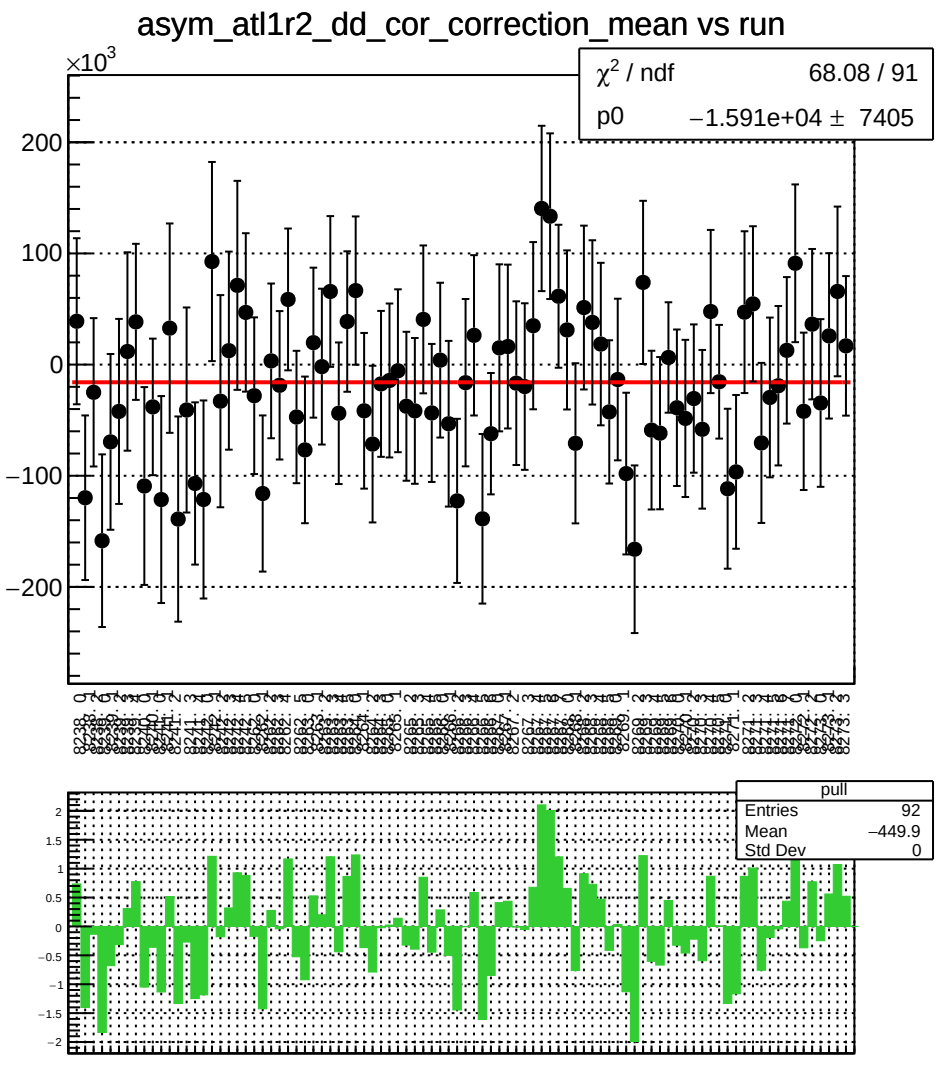

pull1D
Entries 92
Mean −0.007973
Std Dev 0.8602
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

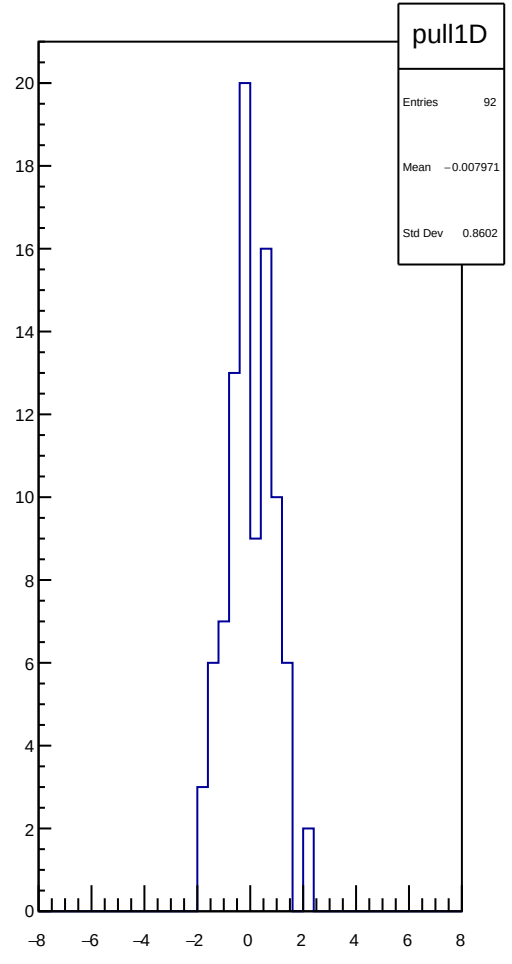

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 1.591e+04 / 91
p0 6960 ± 5.236
9000
8500
8000
7500
7000
6500
6000

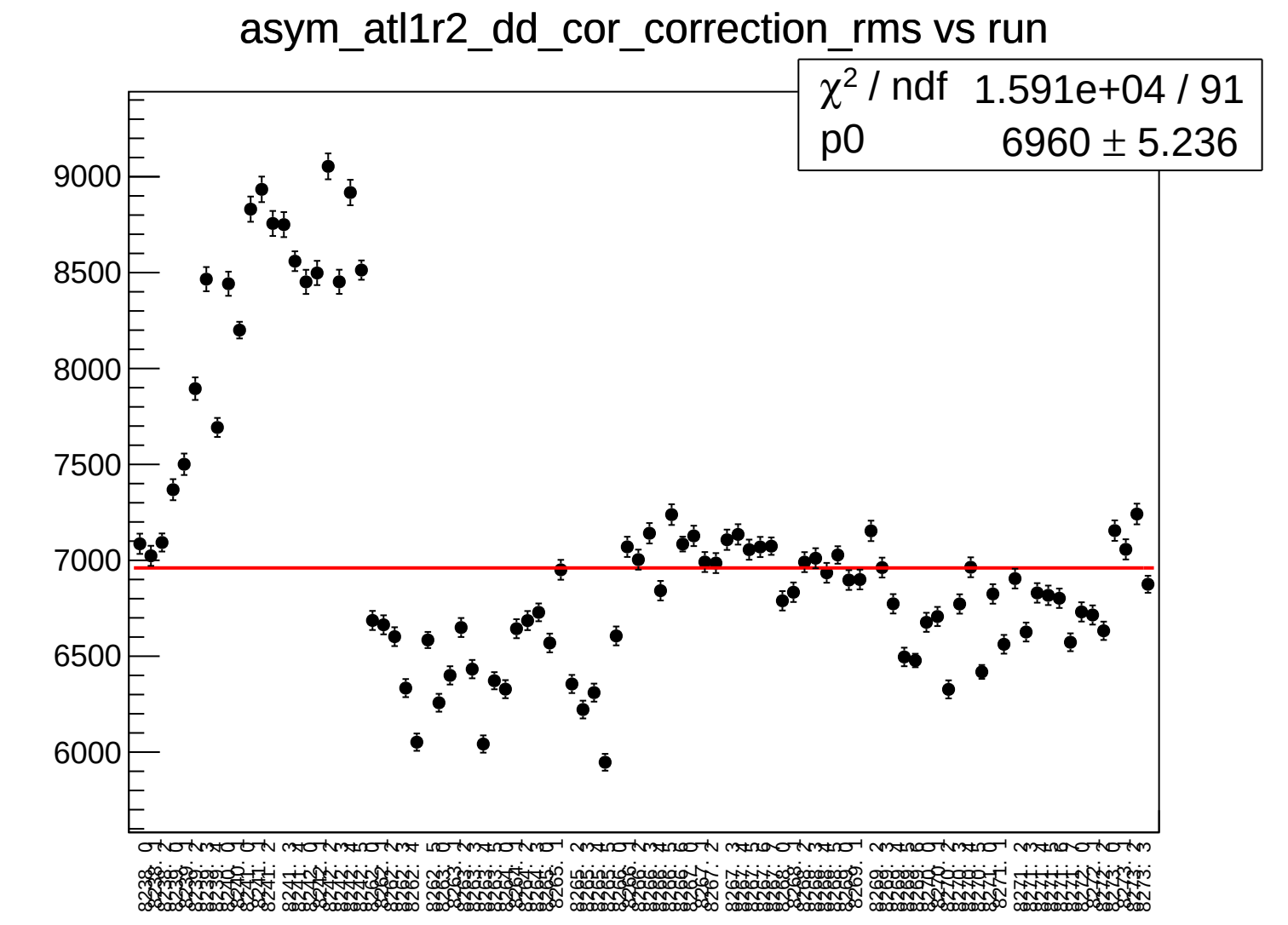

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 93.92 / 91
p0 1785 ± 1981
pull
Entries 92
Mean 97.26
Std Dev 0

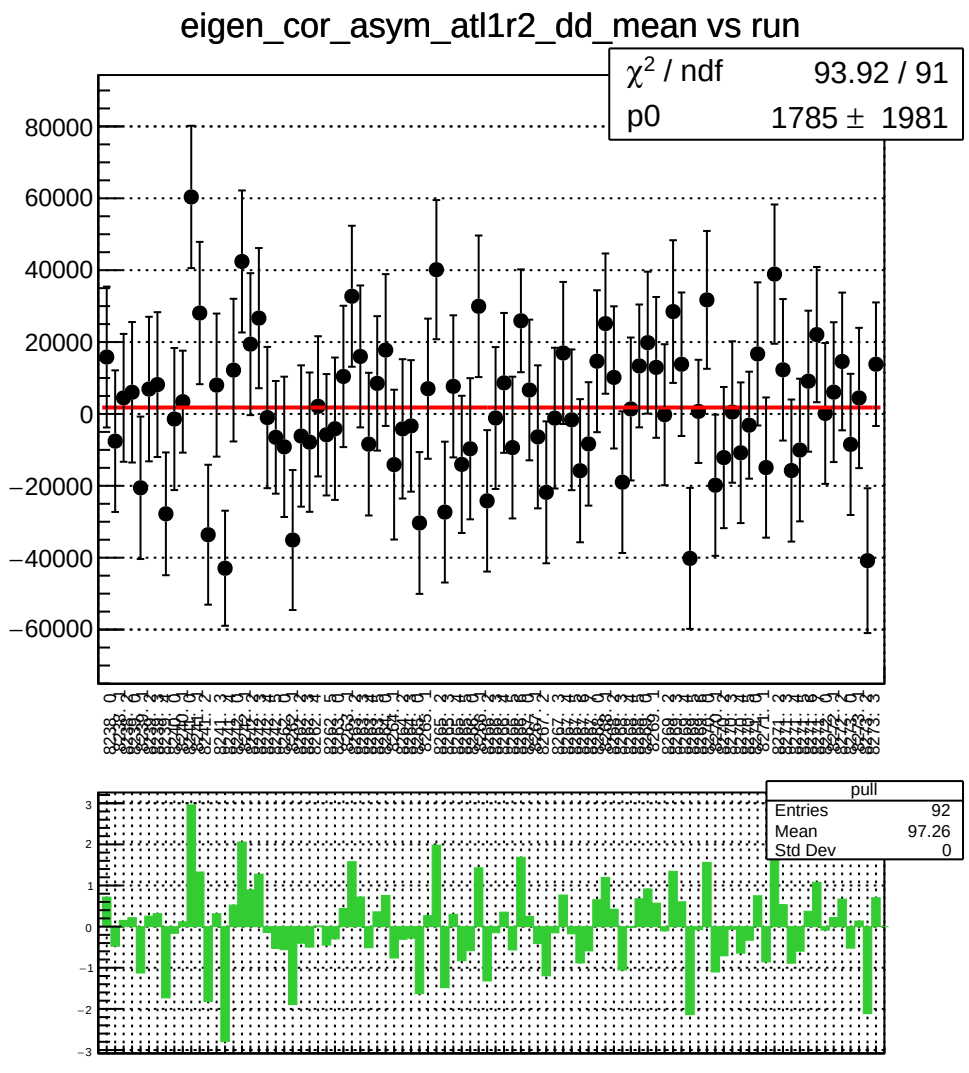

pull1D
Entries 92
Mean 0.003789
Std Dev 1.01

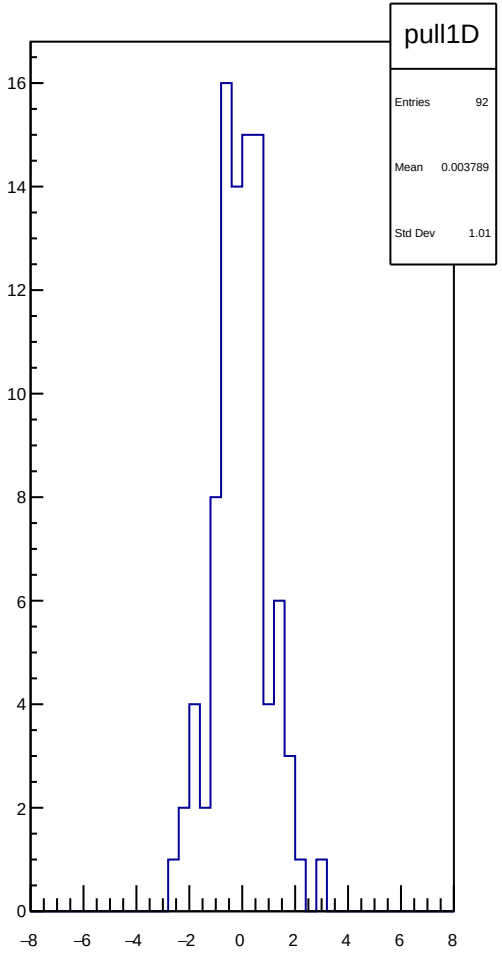

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 271.9 / 91
p0 1871 ± 1.401
2000
1950
1900
1850
1800

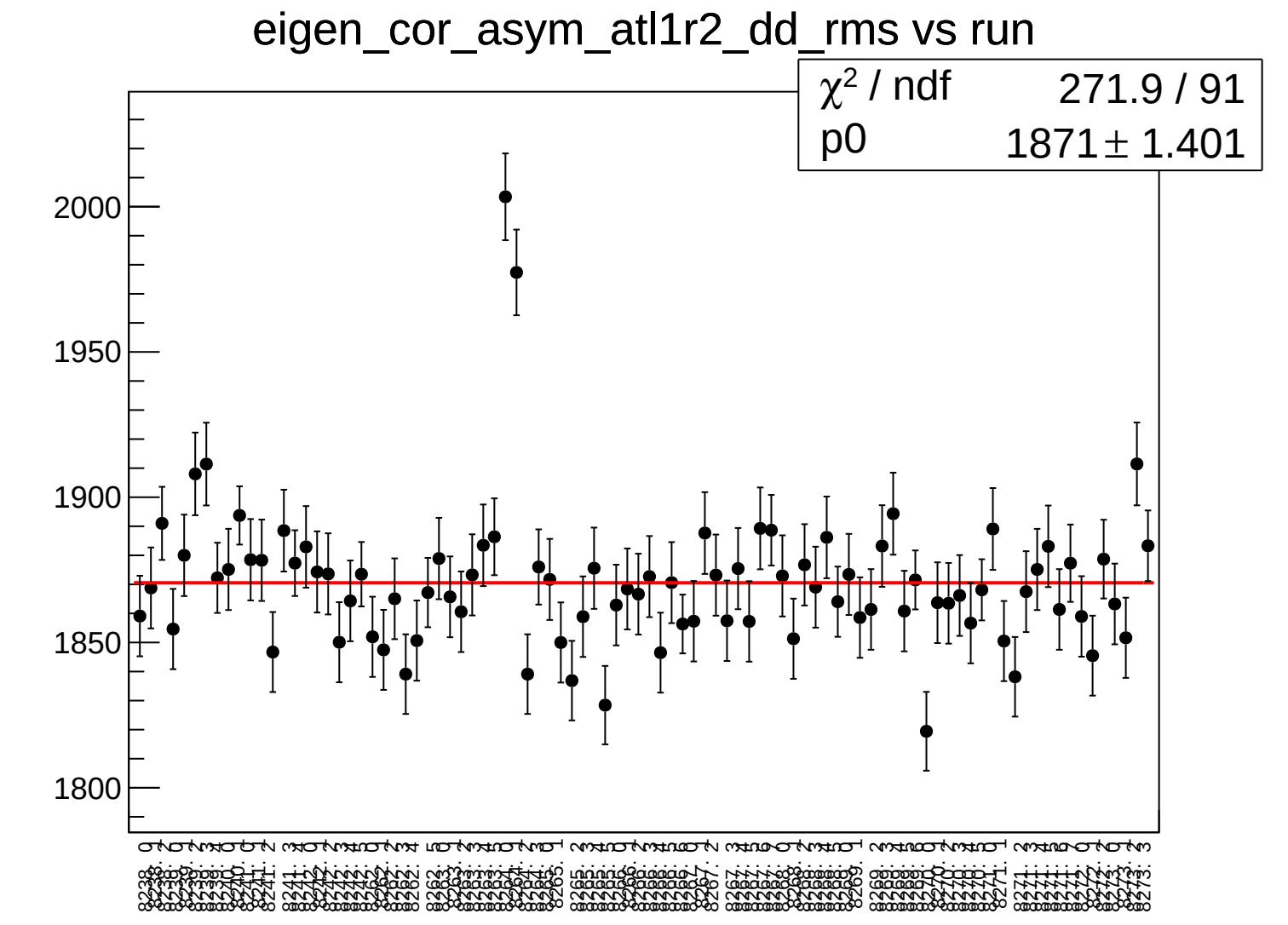

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 68.08 / 91
p0 −1.591e+04 ± 7405
200
100
0
−100
−200
pull
Entries 92
Mean −449.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

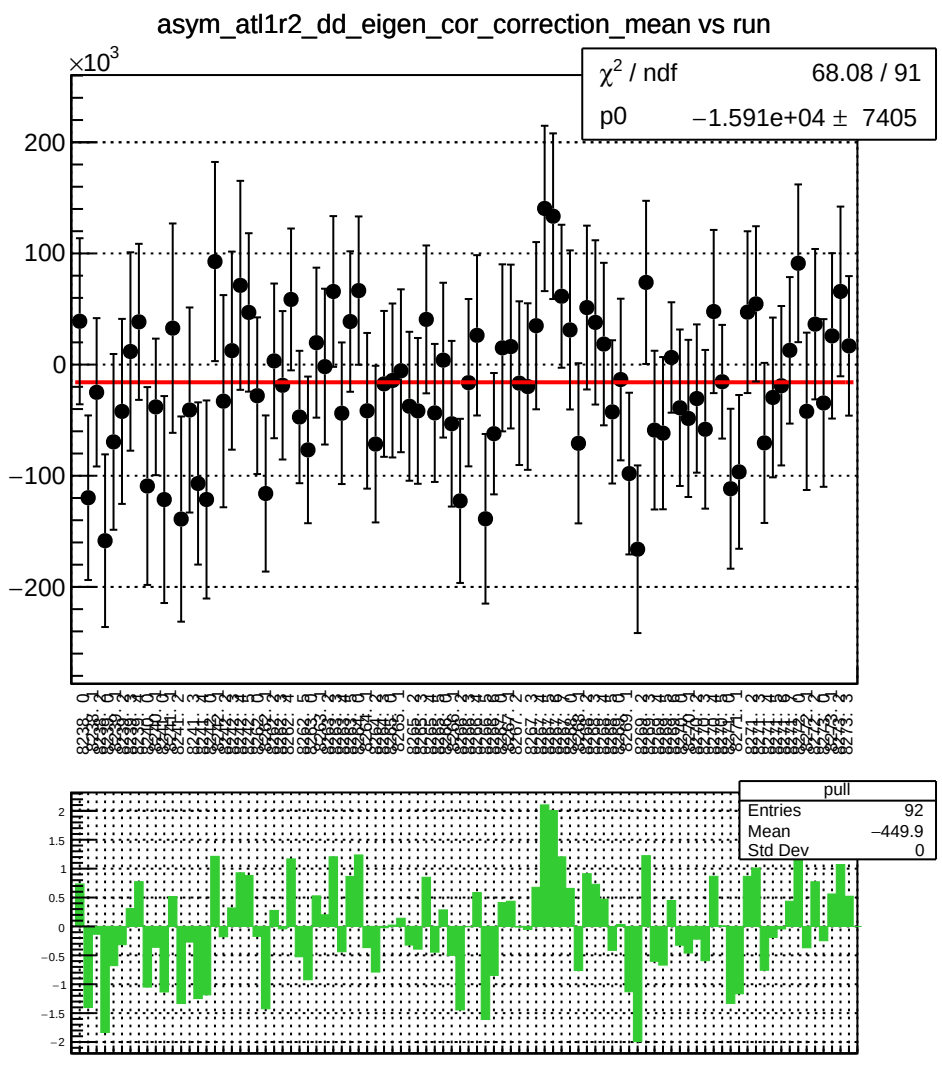

pull1D
Entries 92
Mean −0.007971
Std Dev 0.8602
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

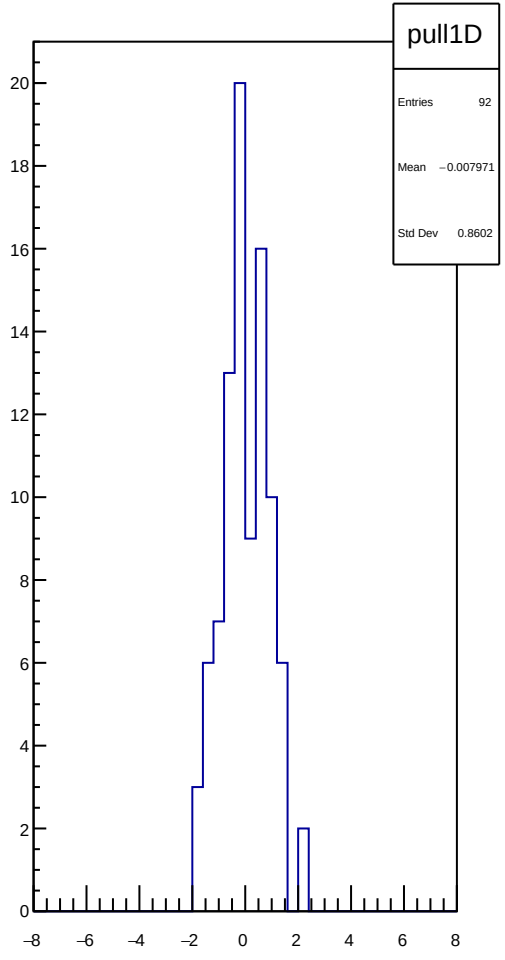

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 1.591e+04 / 91
p0 6960 ± 5.236
9000
8500
8000
7500
7000
6500
6000

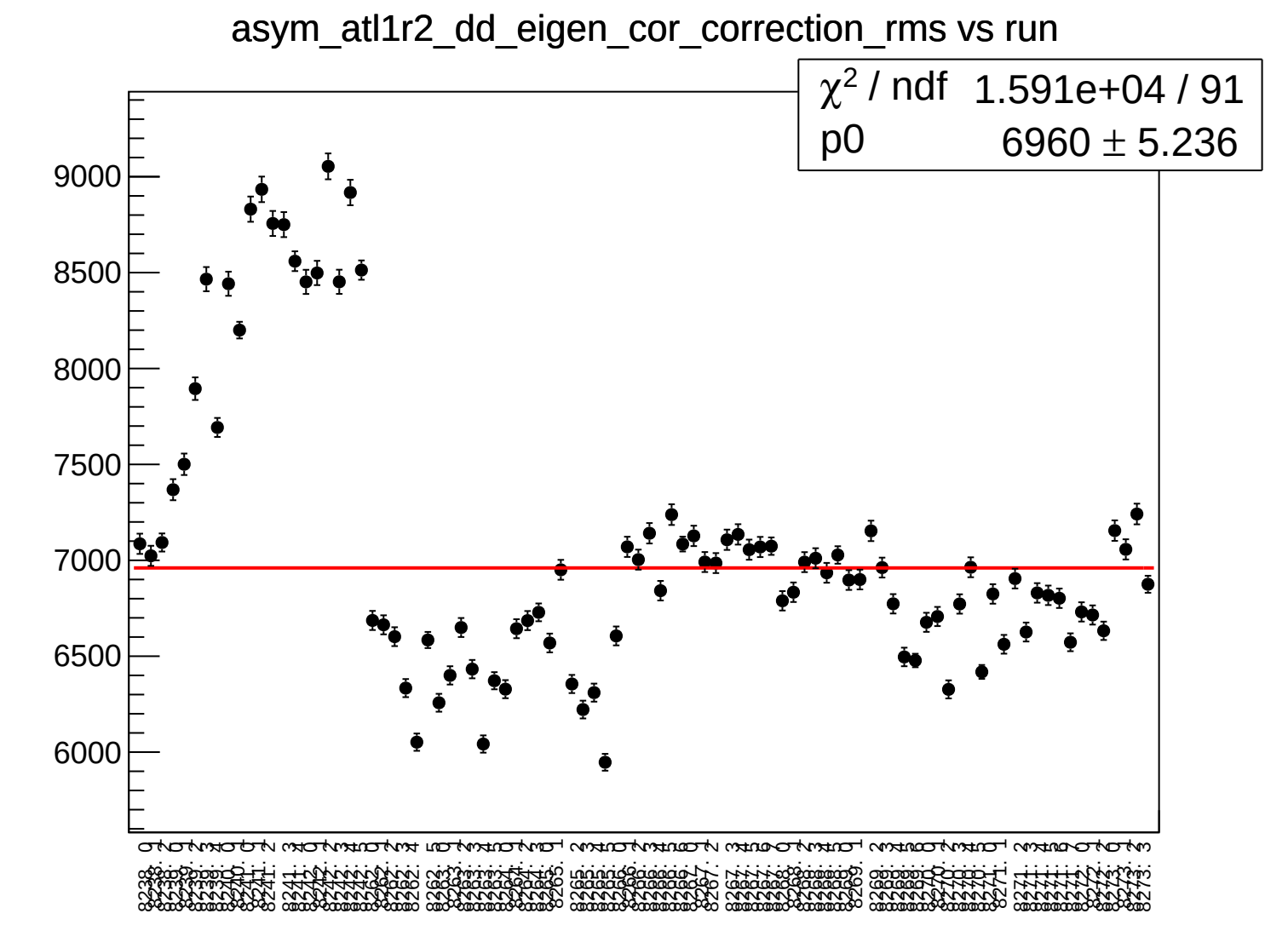

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 93.92 / 91
p0 1785 ± 1981
pull
Entries 92
Mean 97.26
Std Dev 0

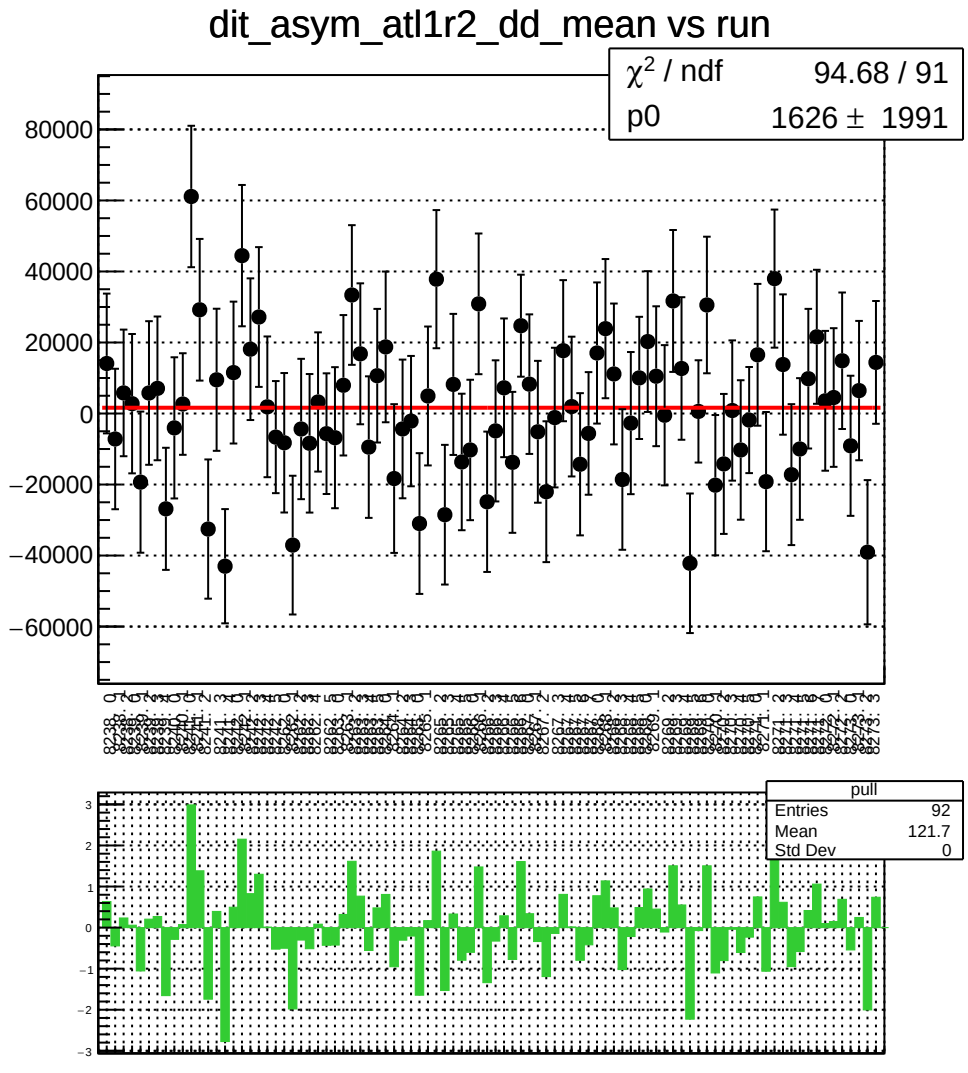

pull1D
Entries 92
Mean 0.003789
Std Dev 1.01

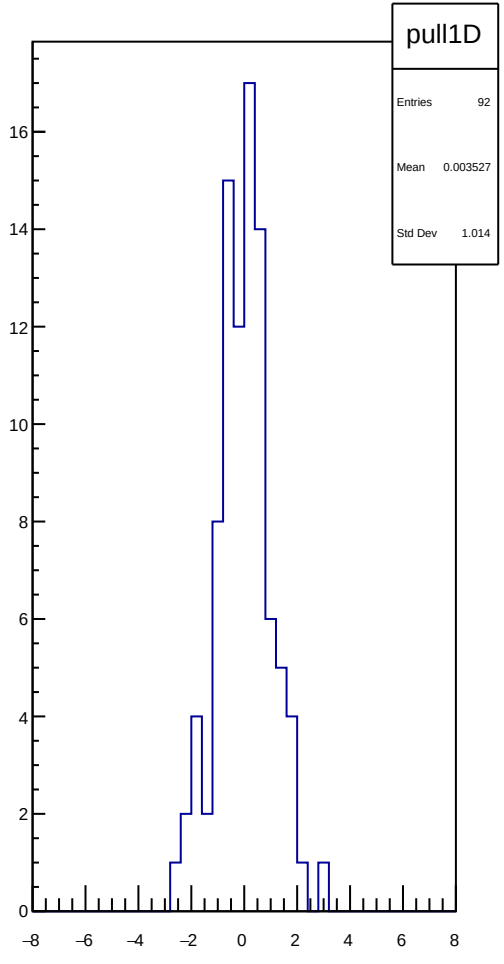

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 271.9 / 91
p0 1871 ± 1.401
2000
1950
1900
1850
1800

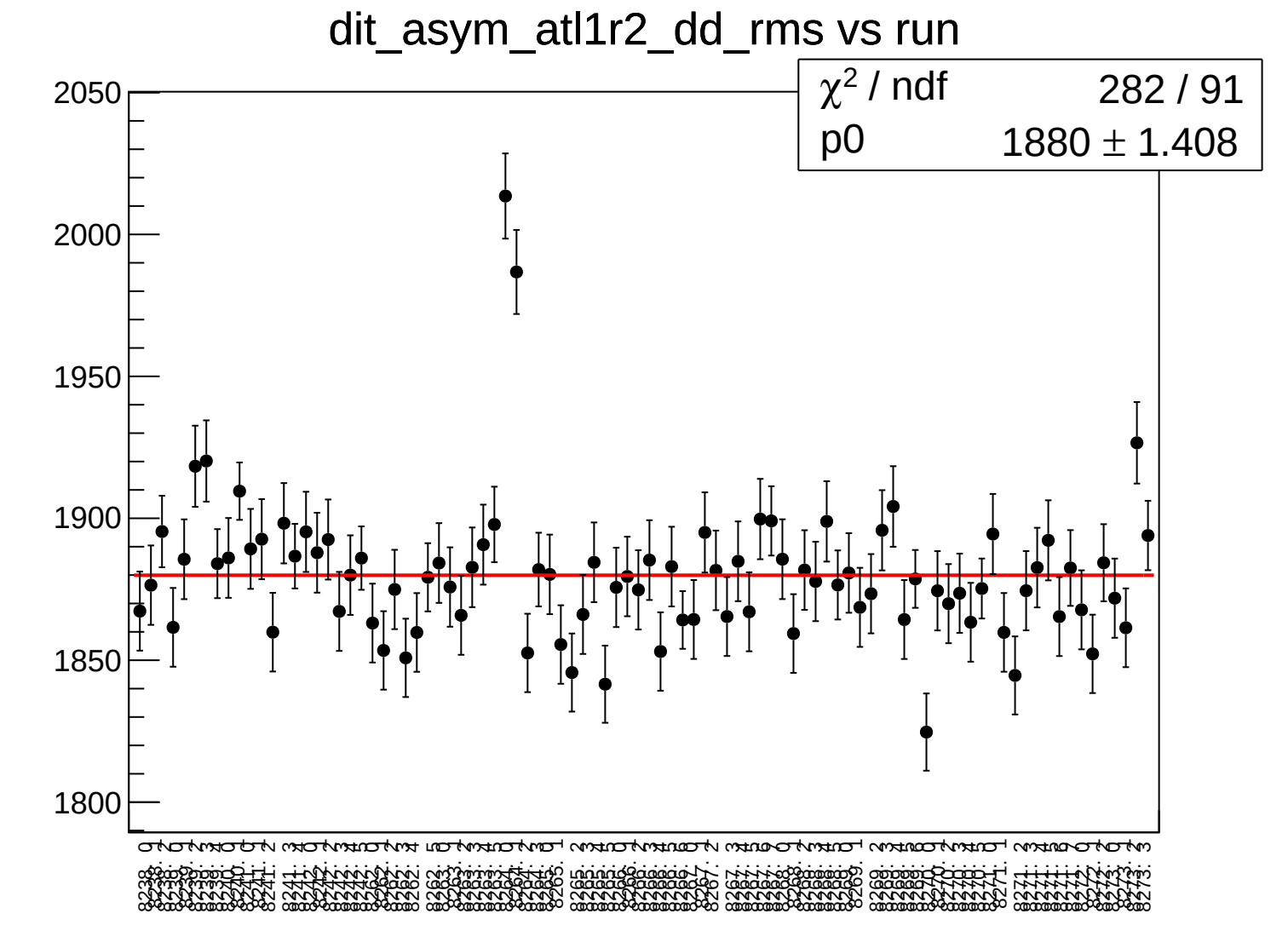

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 68.08 / 91
p0 −1.591e+04 ± 7405
200
100
0
−100
−200
pull
Entries 92
Mean −449.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

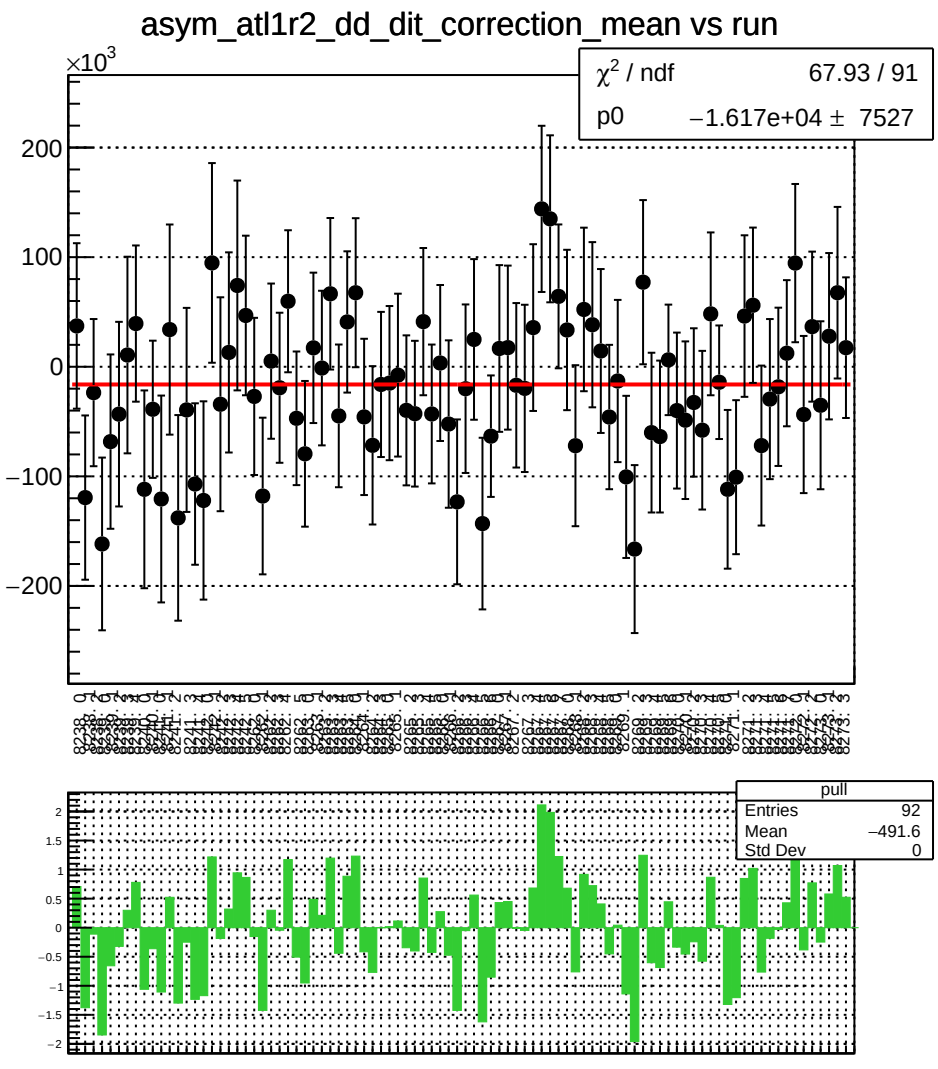

pull1D
Entries 92
Mean −0.007971
Std Dev 0.8602
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

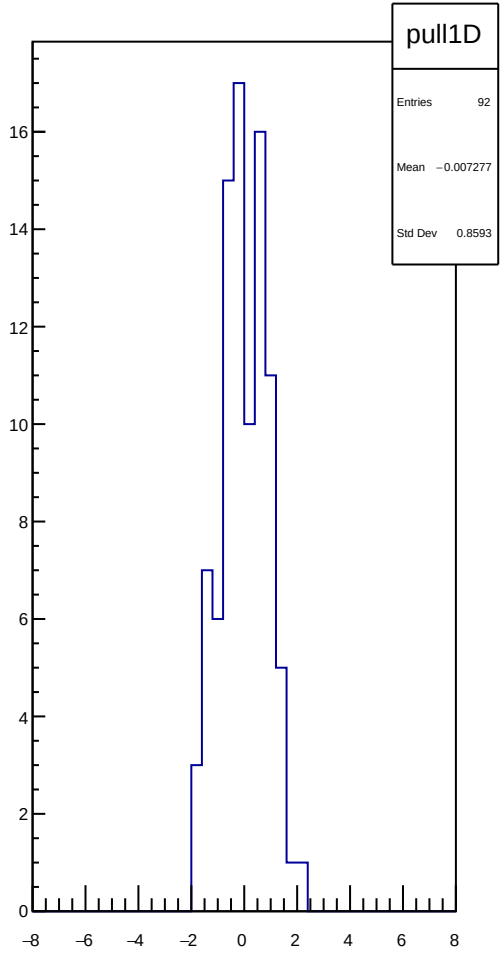

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.591e+04 / 91
p0 6960 ± 5.236
9000
8500
8000
7500
7000
6500
6000

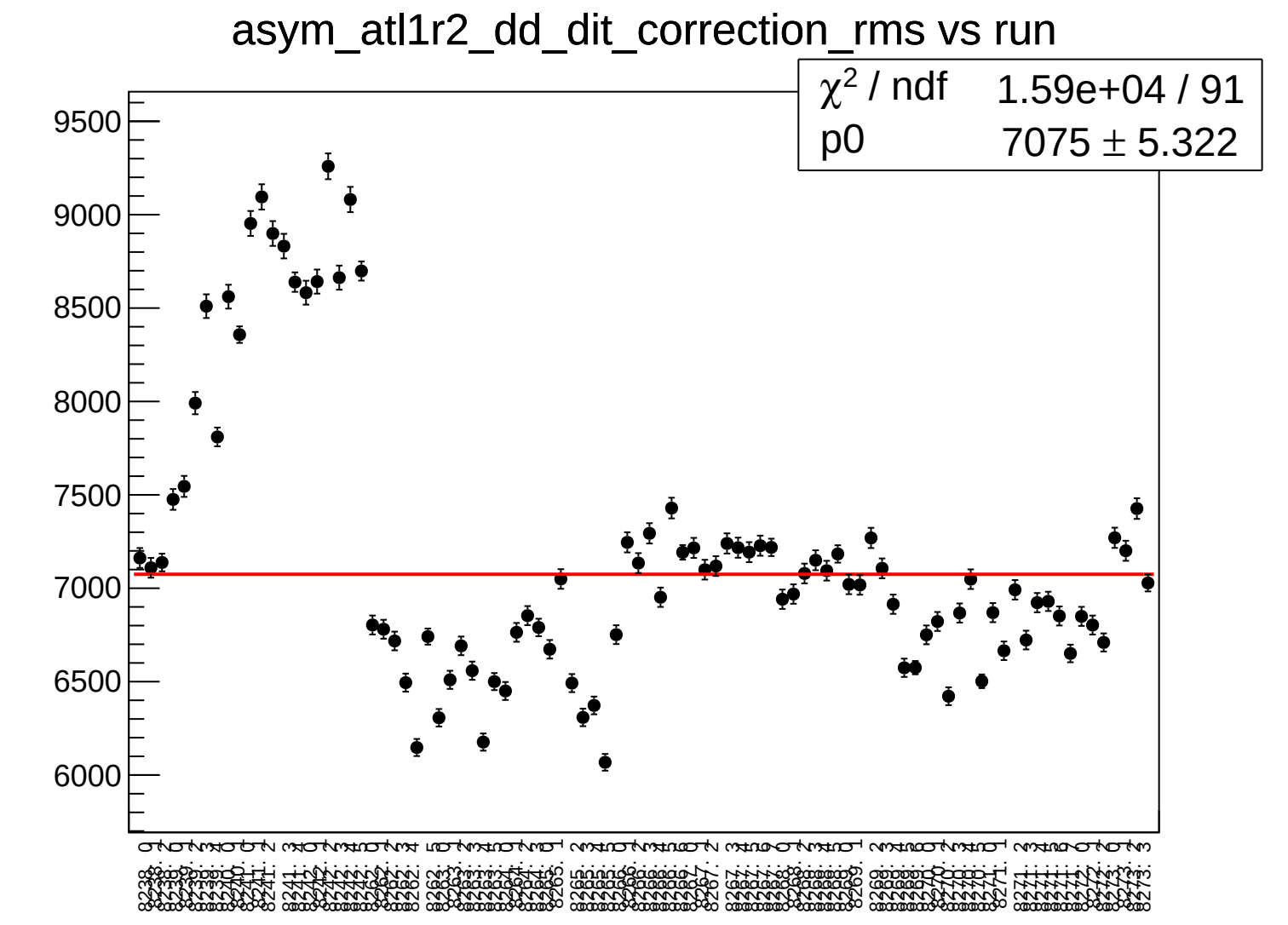

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 94.68 / 91
p0 1626 ± 1991
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 121.7
Std Dev 0
3
2
1
0
−1
−2
−3

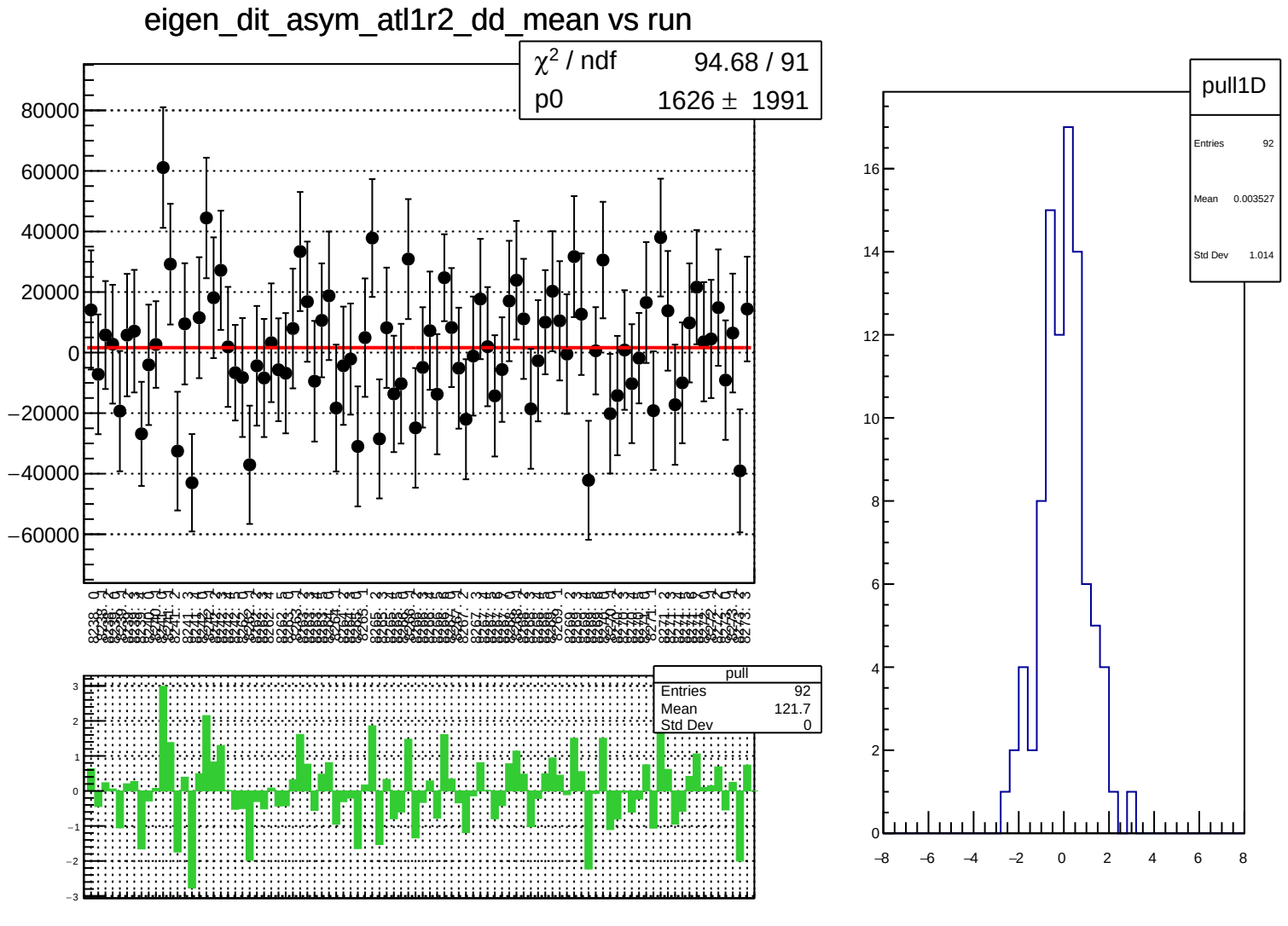

pull1D
Entries 92
Mean 0.003527
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

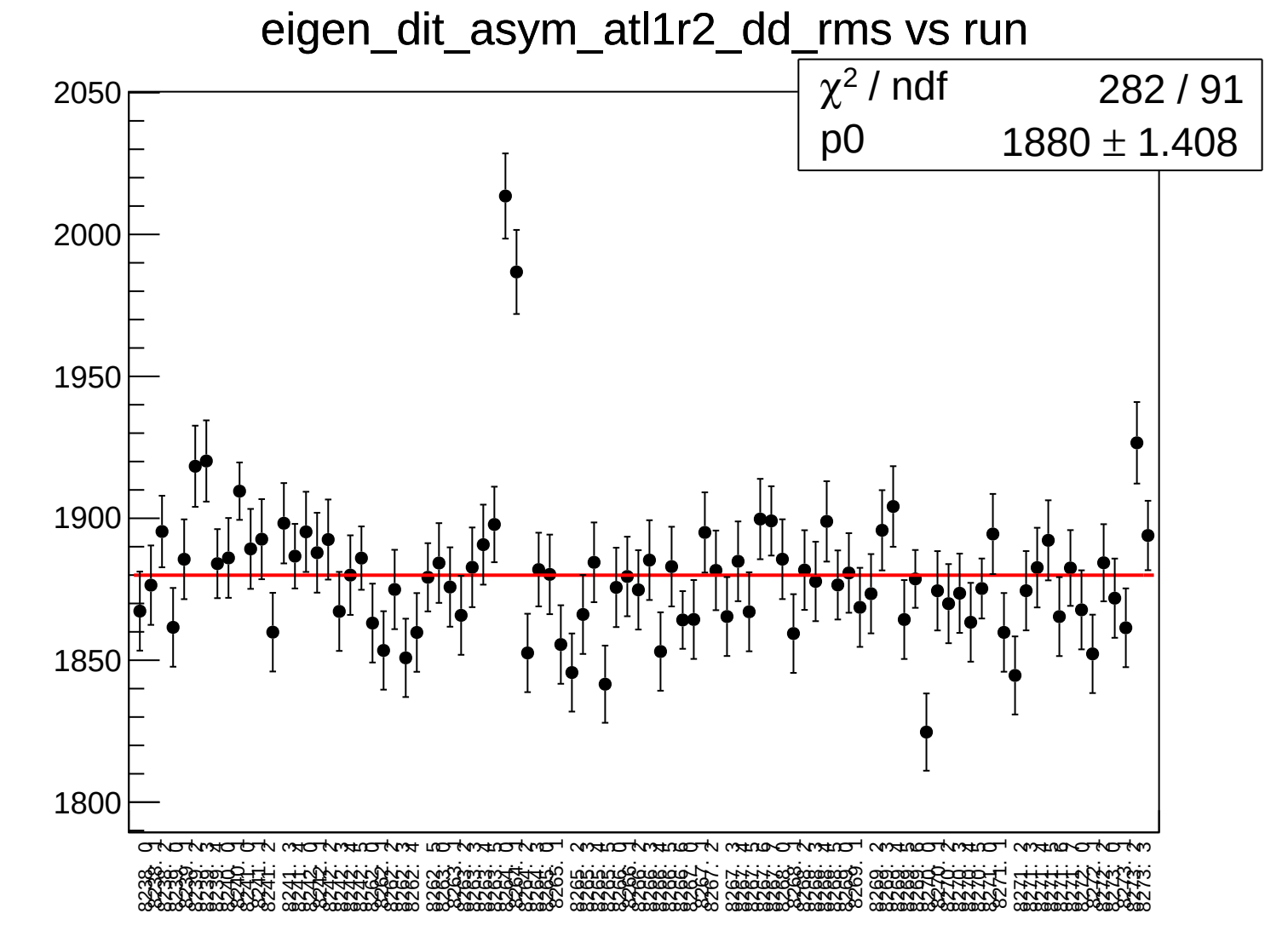

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 282 / 91
p0 1880 ± 1.408
2050
2000
1950
1900
1850
1800

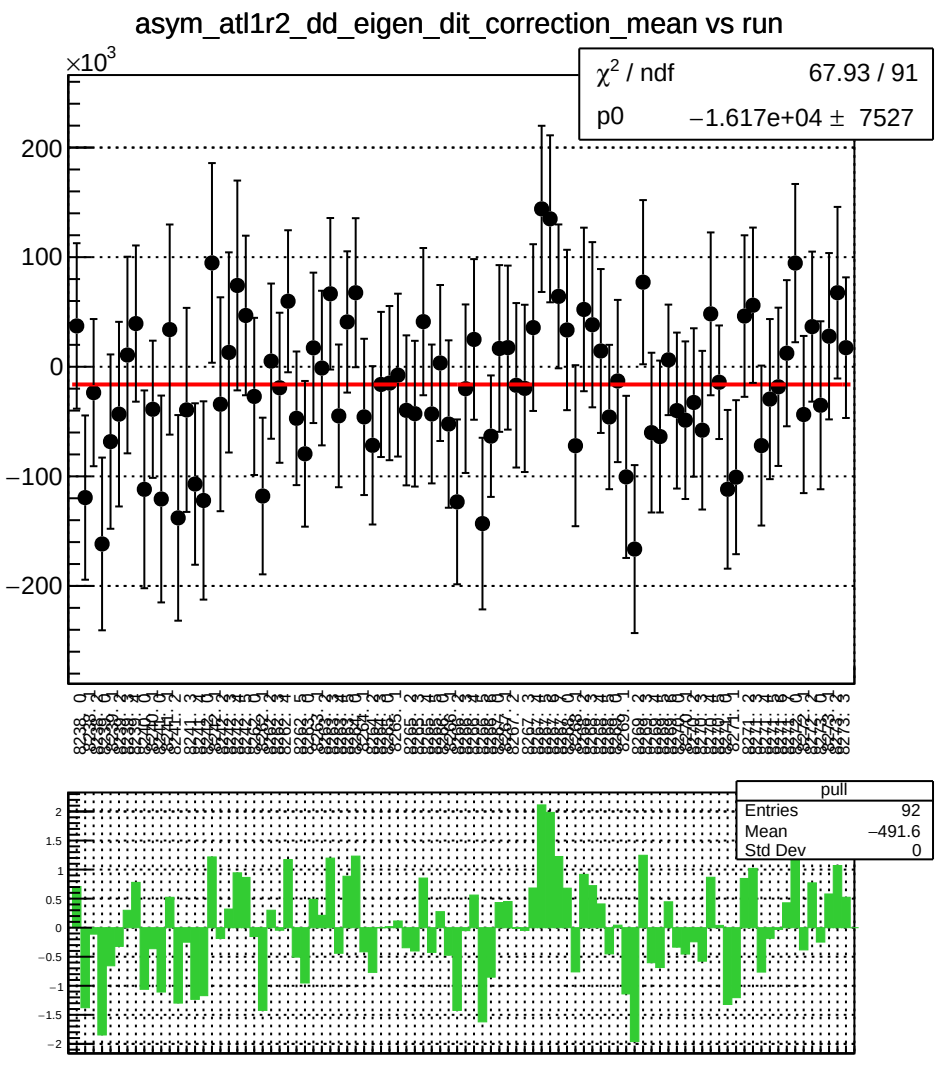

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 67.93 / 91
p0 −1.617e+04 ± 7527
200
100
0
−100
−200
pull
Entries 92
Mean −491.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

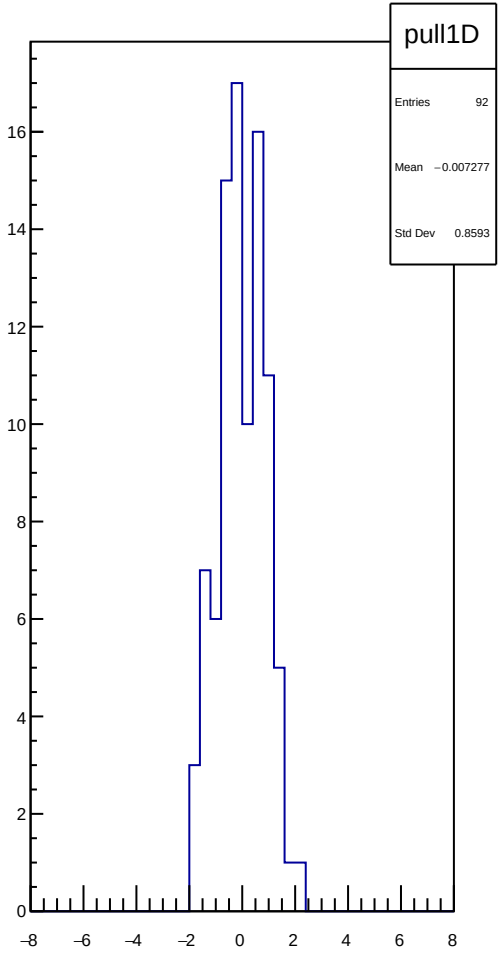

pull1D
Entries 92
Mean −0.007277
Std Dev 0.8593
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 1.59e+04 / 91
p0 7075 ± 5.322
9500
9000
8500
8000
7500
7000
6500
6000


eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 94.68 / 91
p0 1626 ± 1991
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 121.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.003527
Std Dev 1.014
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 282 / 91
p0 1880 ± 1.408
2050
2000
1950
1900
1850
1800


asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 67.93 / 91
p0 −1.617e+04 ± 7527
200
100
0
−100
−200
pull
Entries 92
Mean −491.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 92
Mean −0.007277
Std Dev 0.8593
16
14
12
10
8
6
4
2
0
−8
−6
−4
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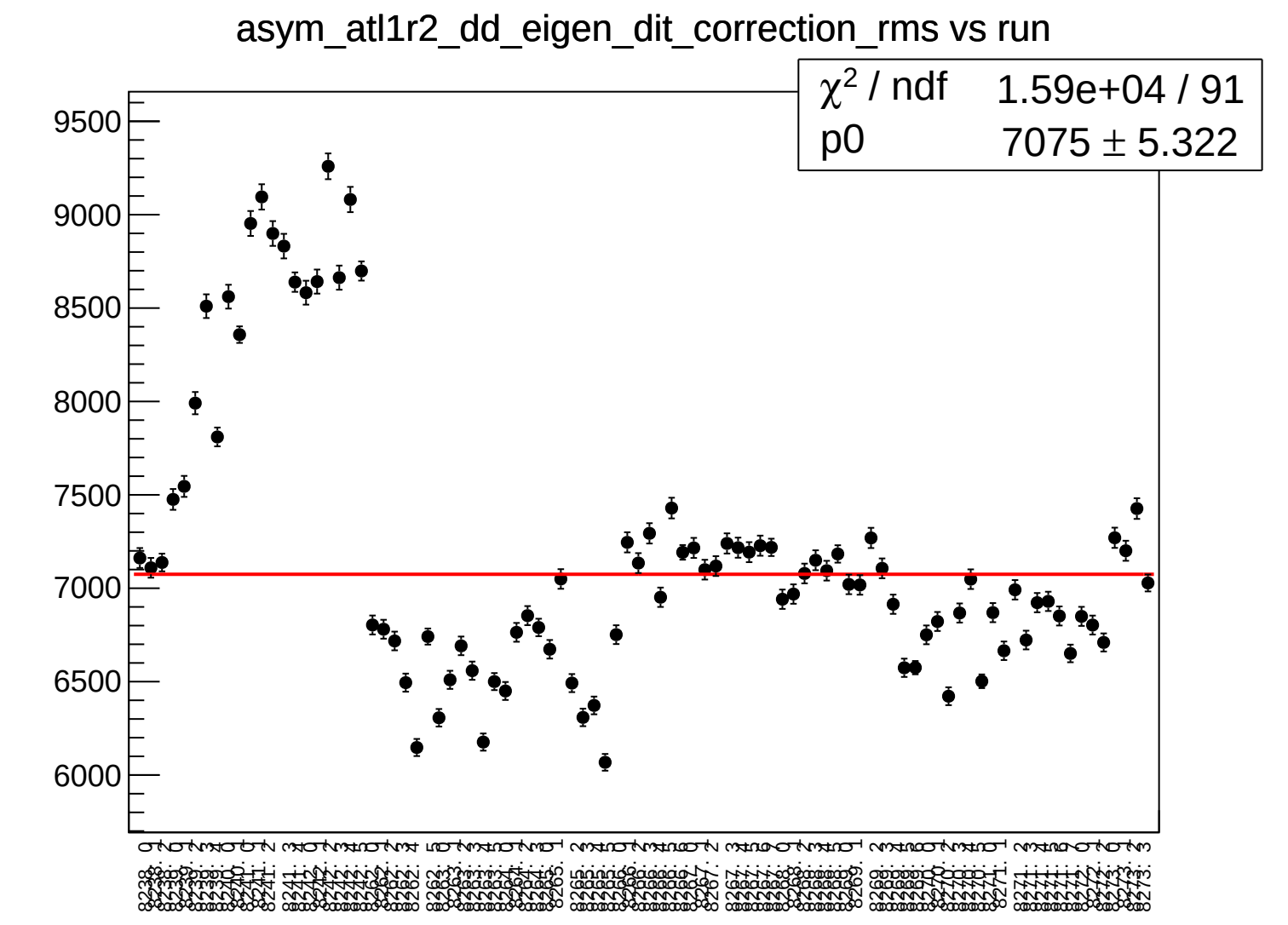
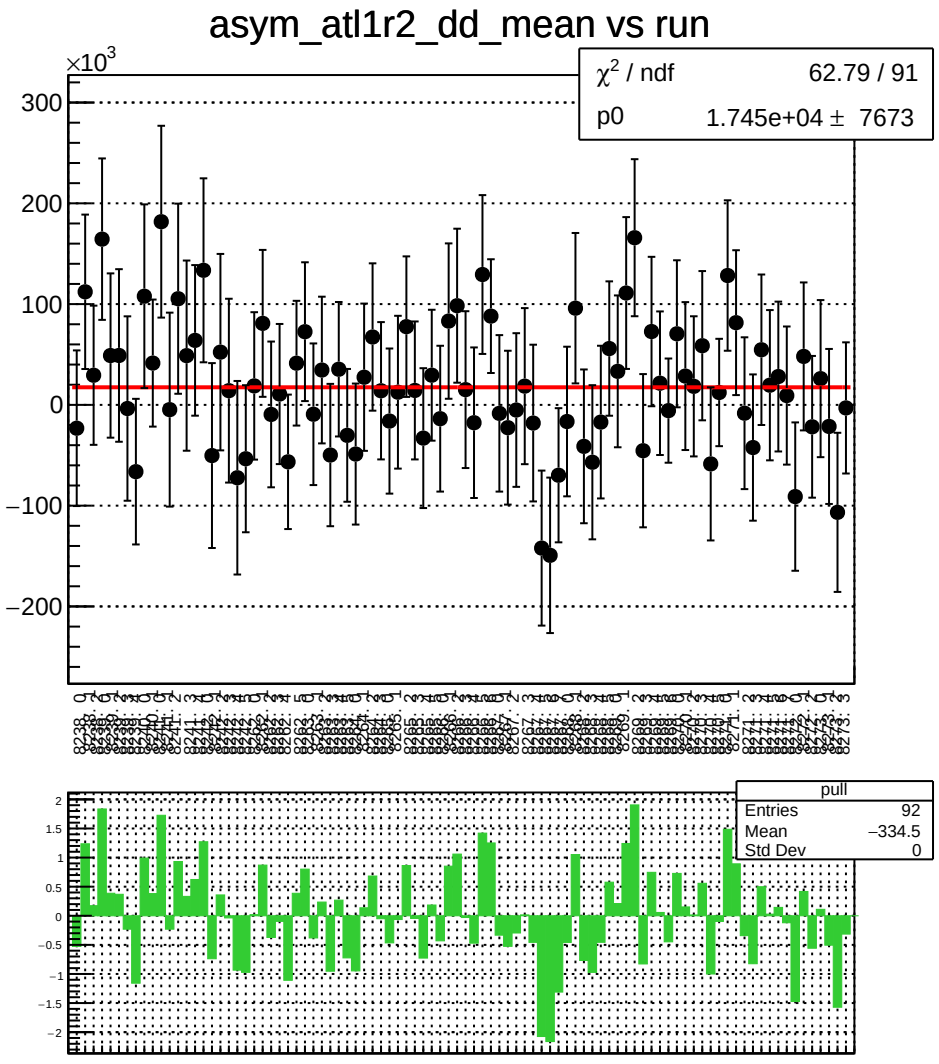
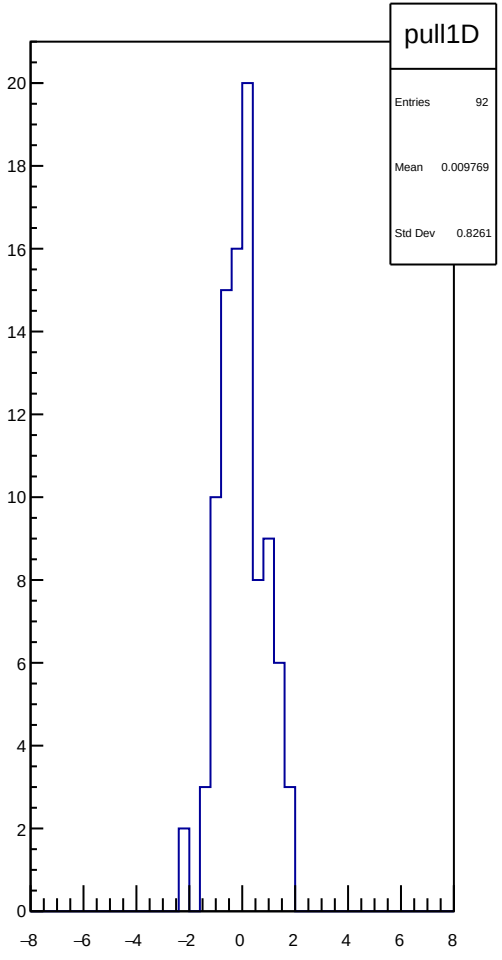
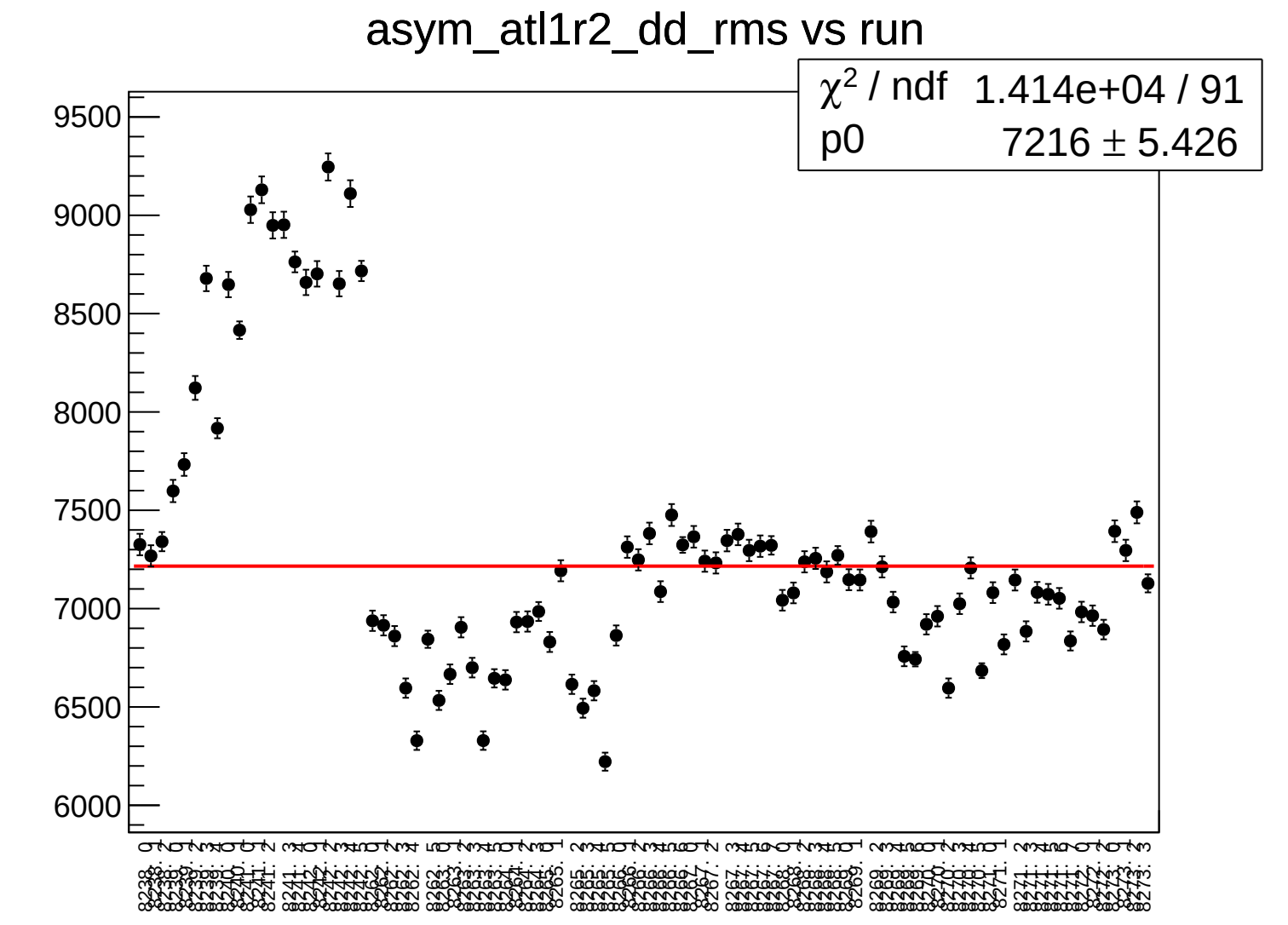
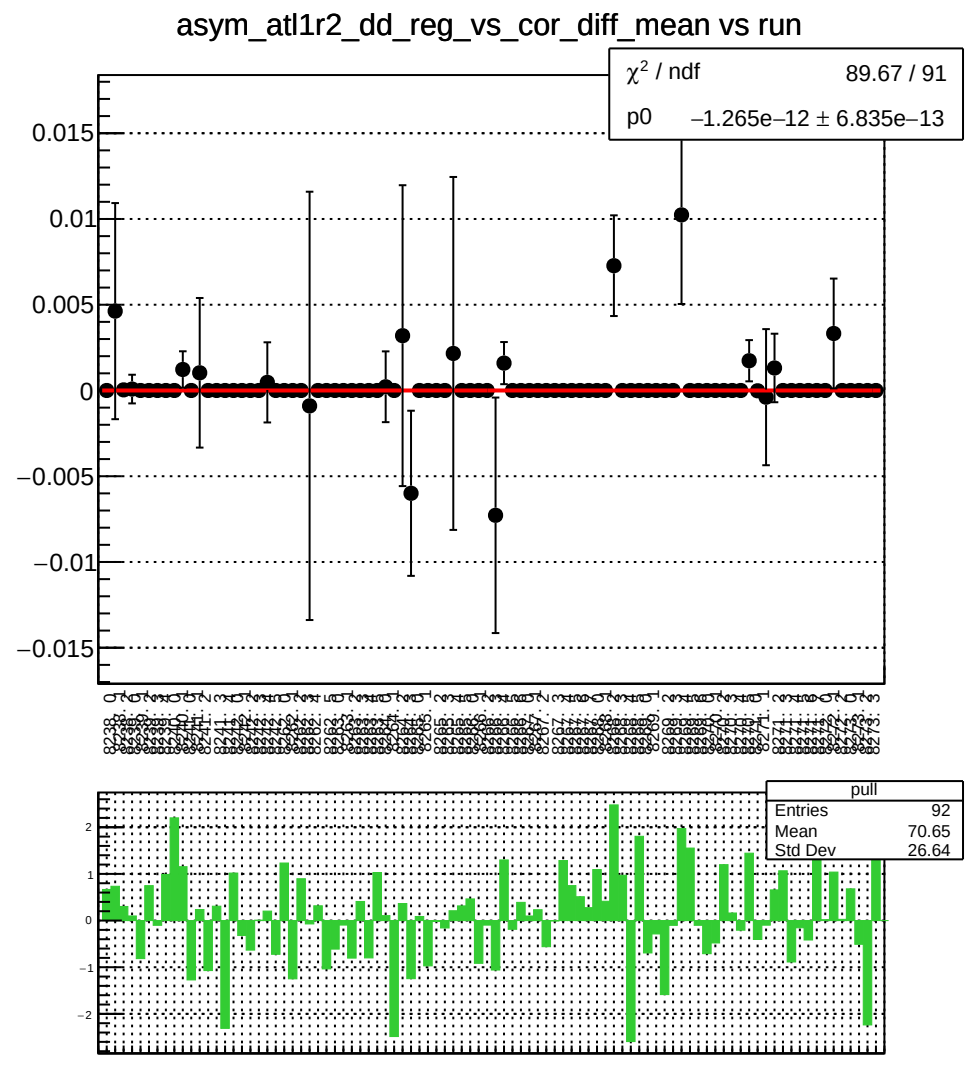
0
2
4
6
8

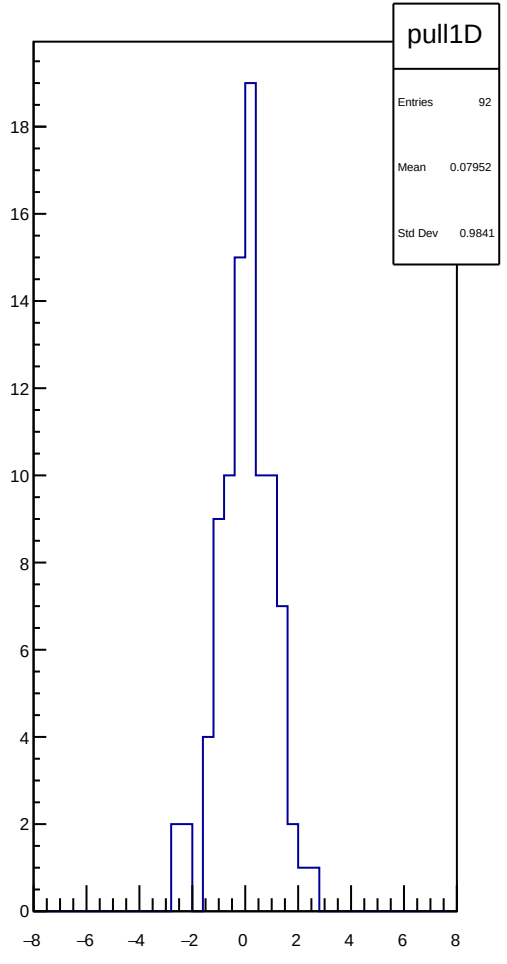

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.59e+04 / 91
p0 7075 ± 5.322
9500
9000
8500
8000
7500
7000
6500
6000

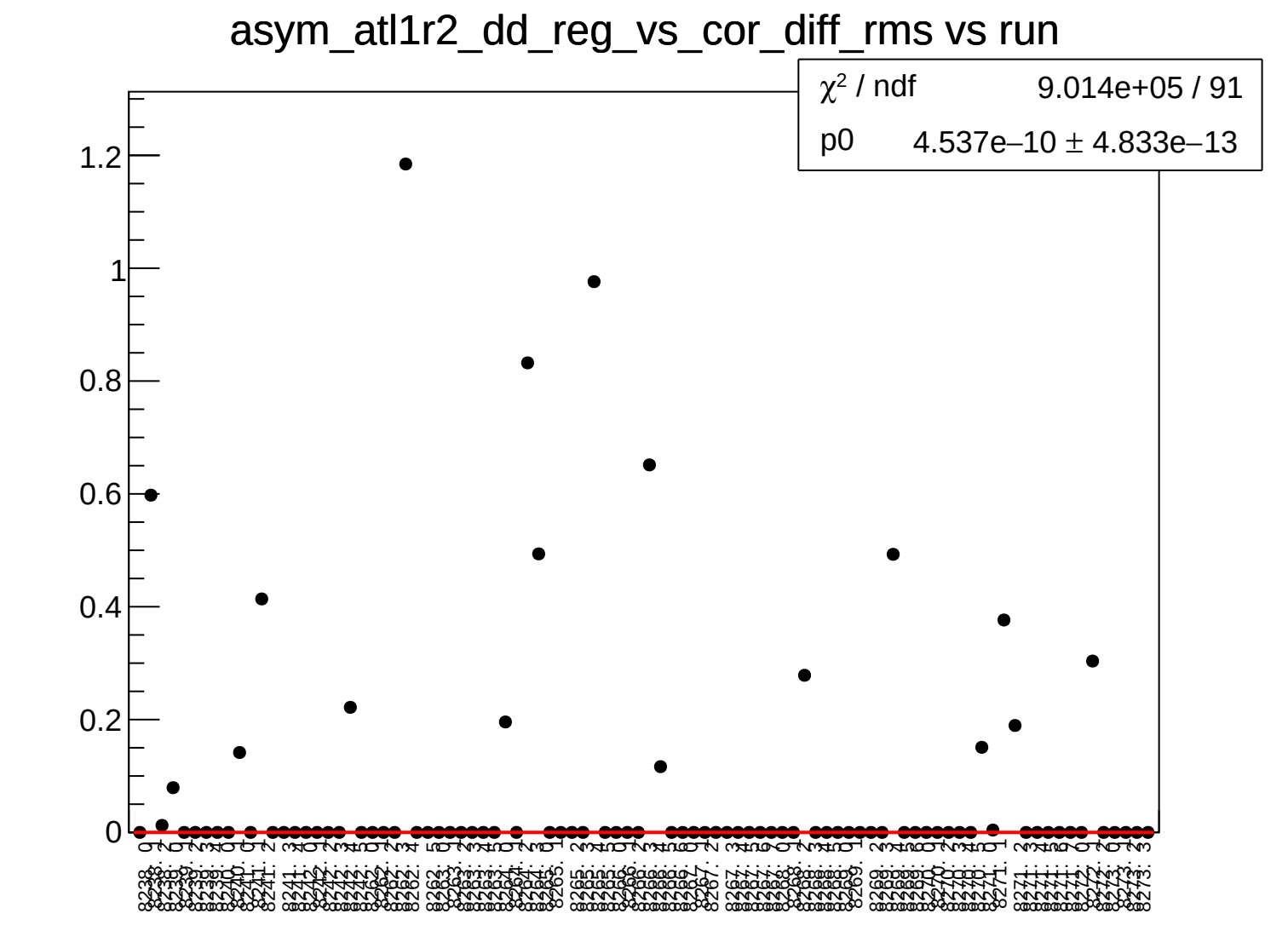

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 62.79 / 91
p0 1.745e+04 ± 7673
pull
Entries 92
Mean −334.5
Std Dev 0

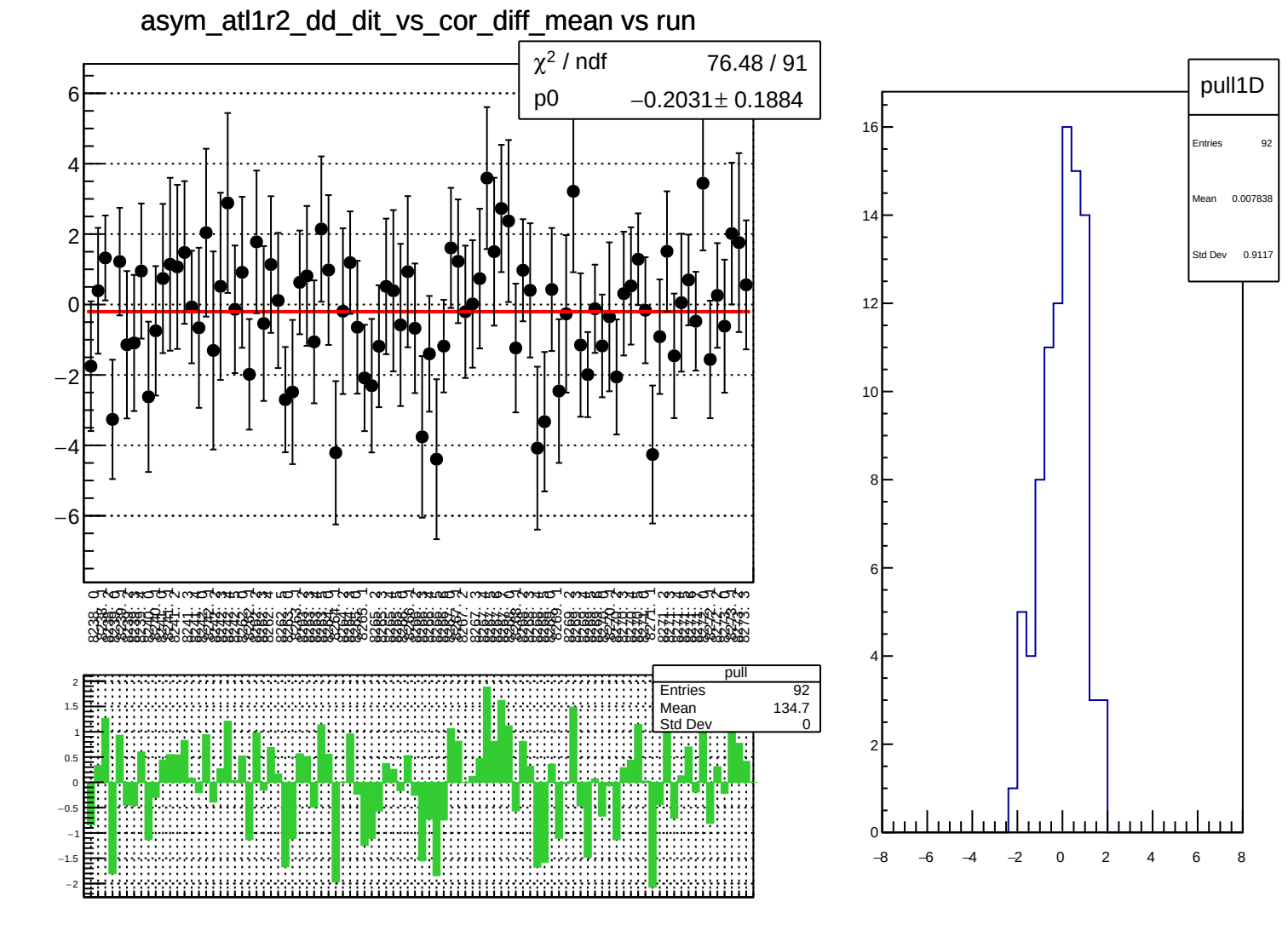

pull1D
Entries 92
Mean 0.009769
Std Dev 0.8261

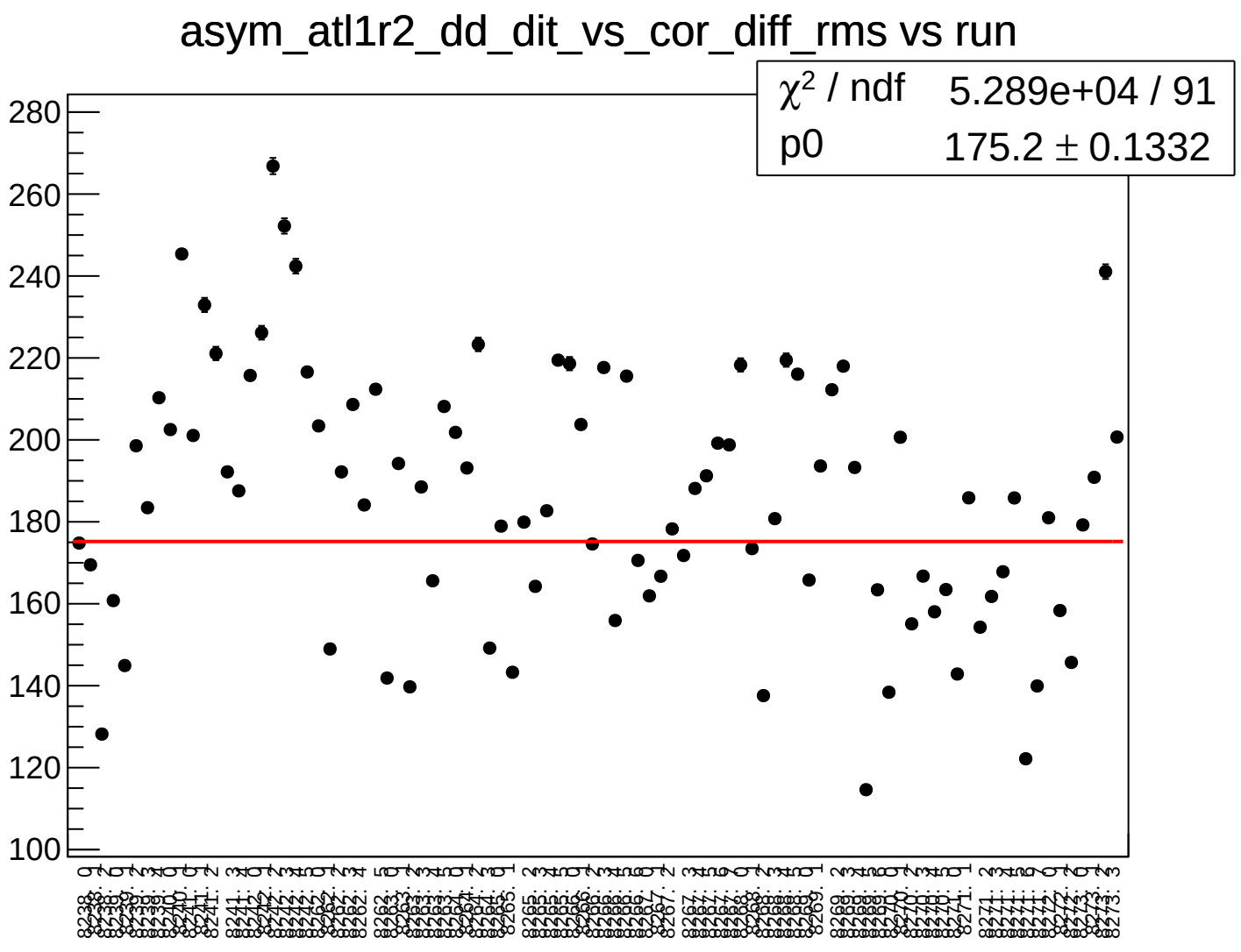

asym_atl1r2_dd_rms vs run
χ² / ndf 1.414e+04 / 91
p0 7216 ± 5.426
9500
9000
8500
8000
7500
7000
6500
6000

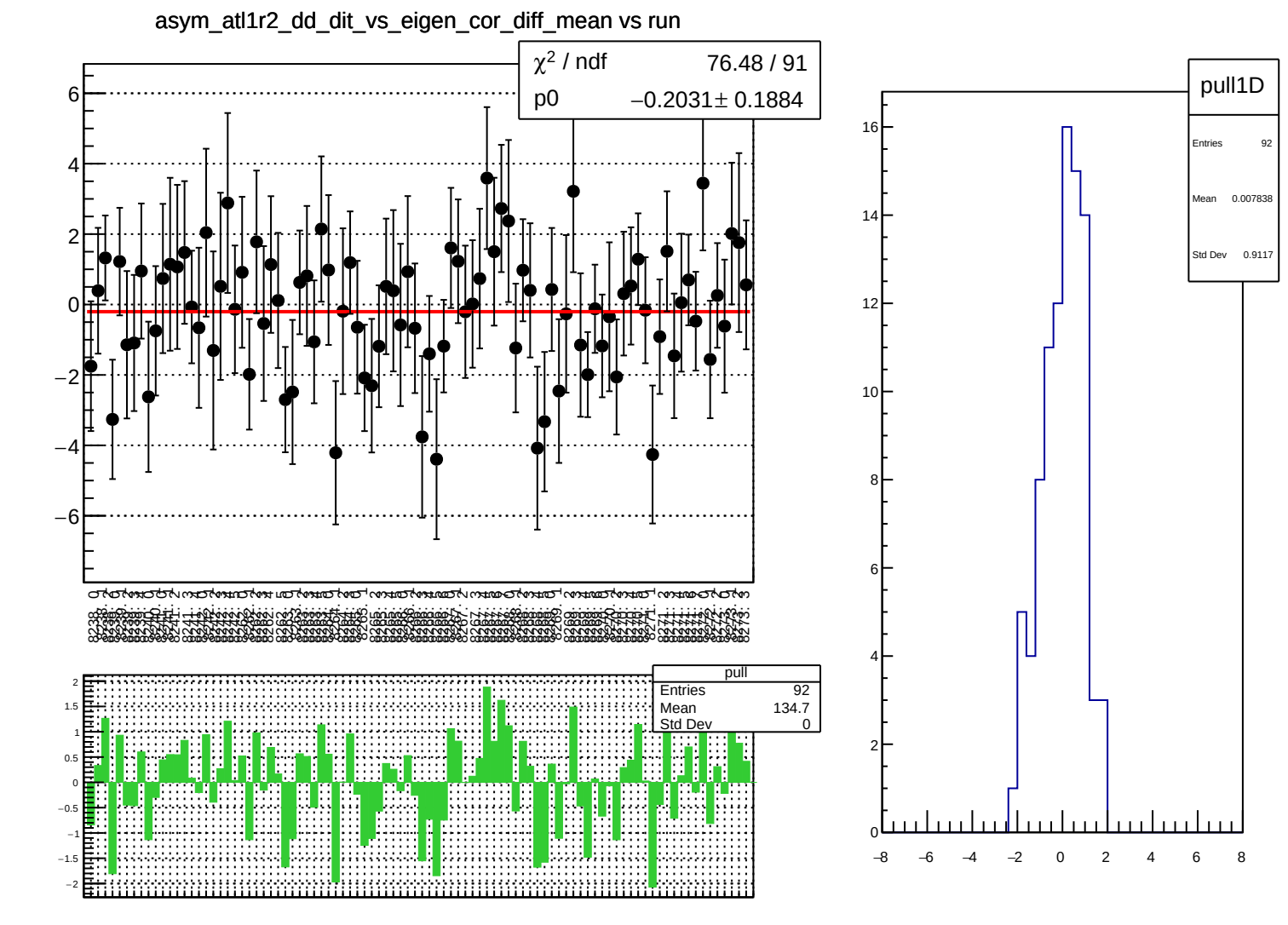

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.67 / 91
p0 −1.265e−12 ± 6.835e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean 70.65
Std Dev 26.64
2
1
0
−1
−2

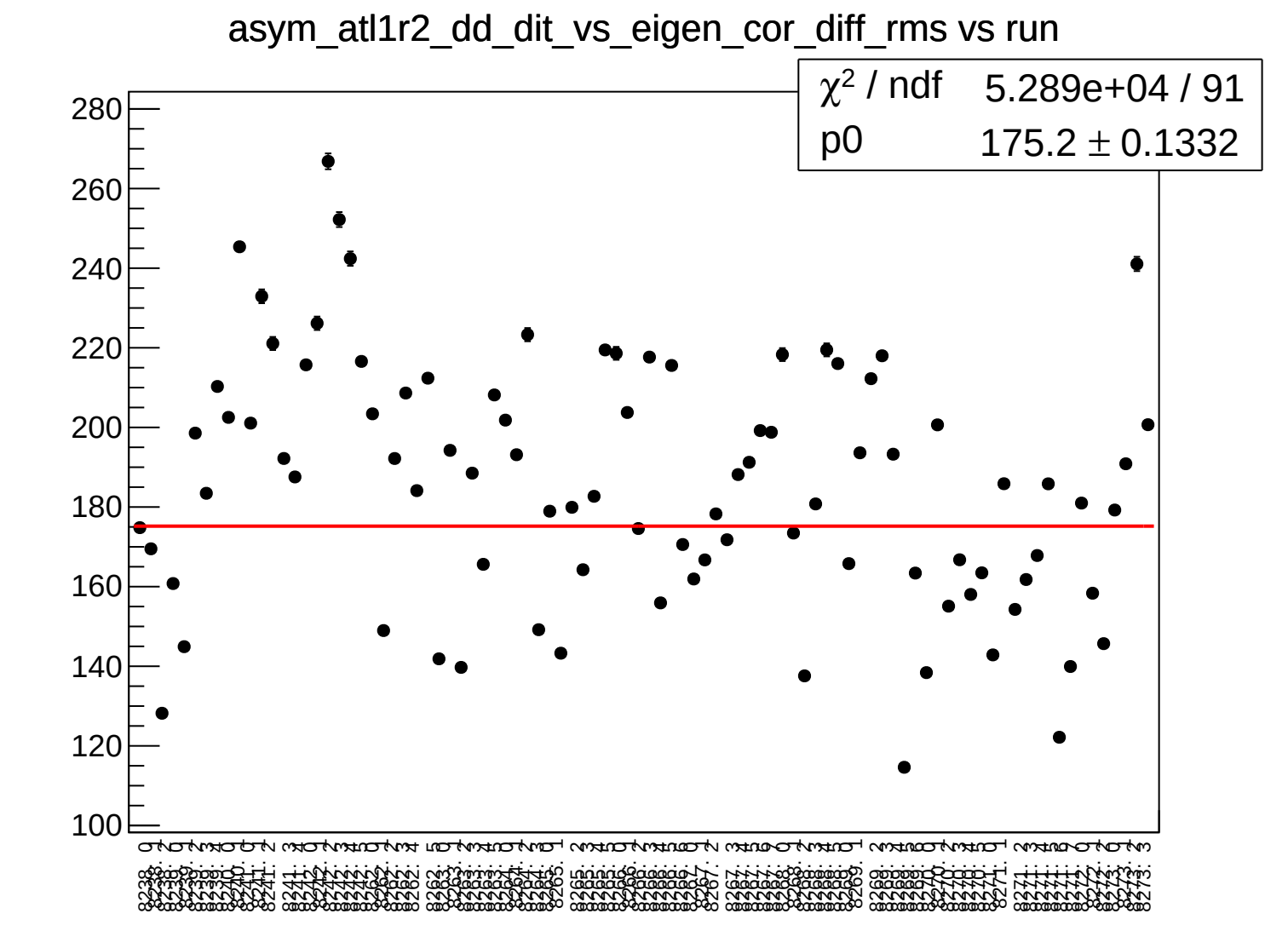

pull1D
Entries 92
Mean 0.07952
Std Dev 0.9841
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

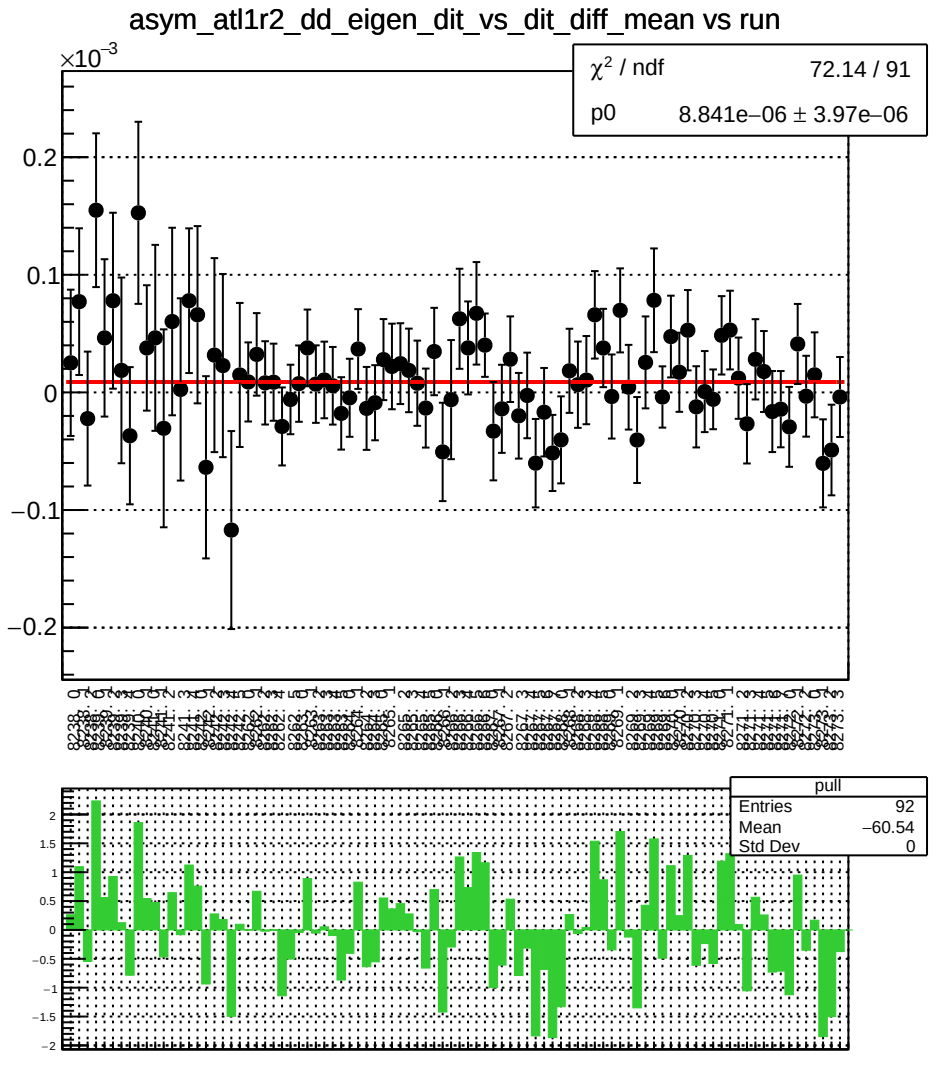

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.014e+05 / 91
p0 4.537e−10 ± 4.833e−13
1.2
1
0.8
0.6
0.4
0.2
0

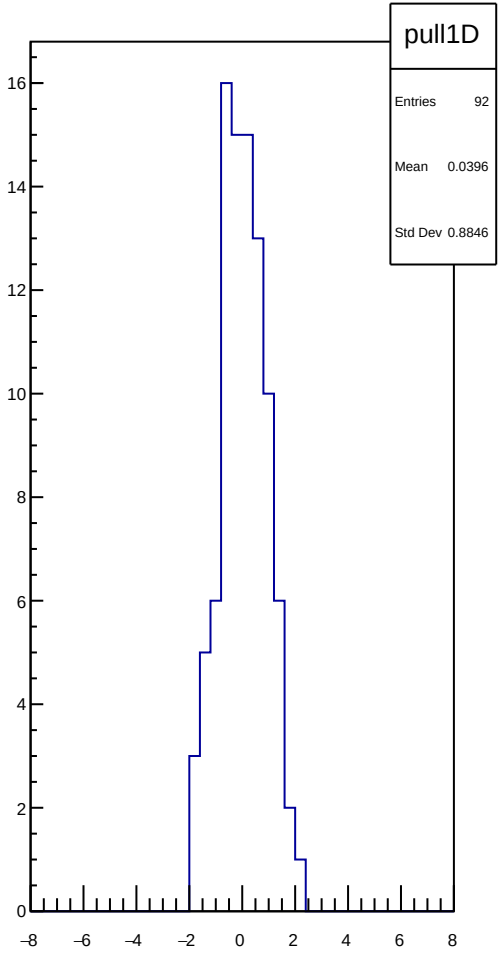

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.48 / 91
p0 −0.2031± 0.1884
pull
Entries 92
Mean 134.7
Std Dev 0
pull1D
Entries 92
Mean 0.007838
Std Dev 0.9117

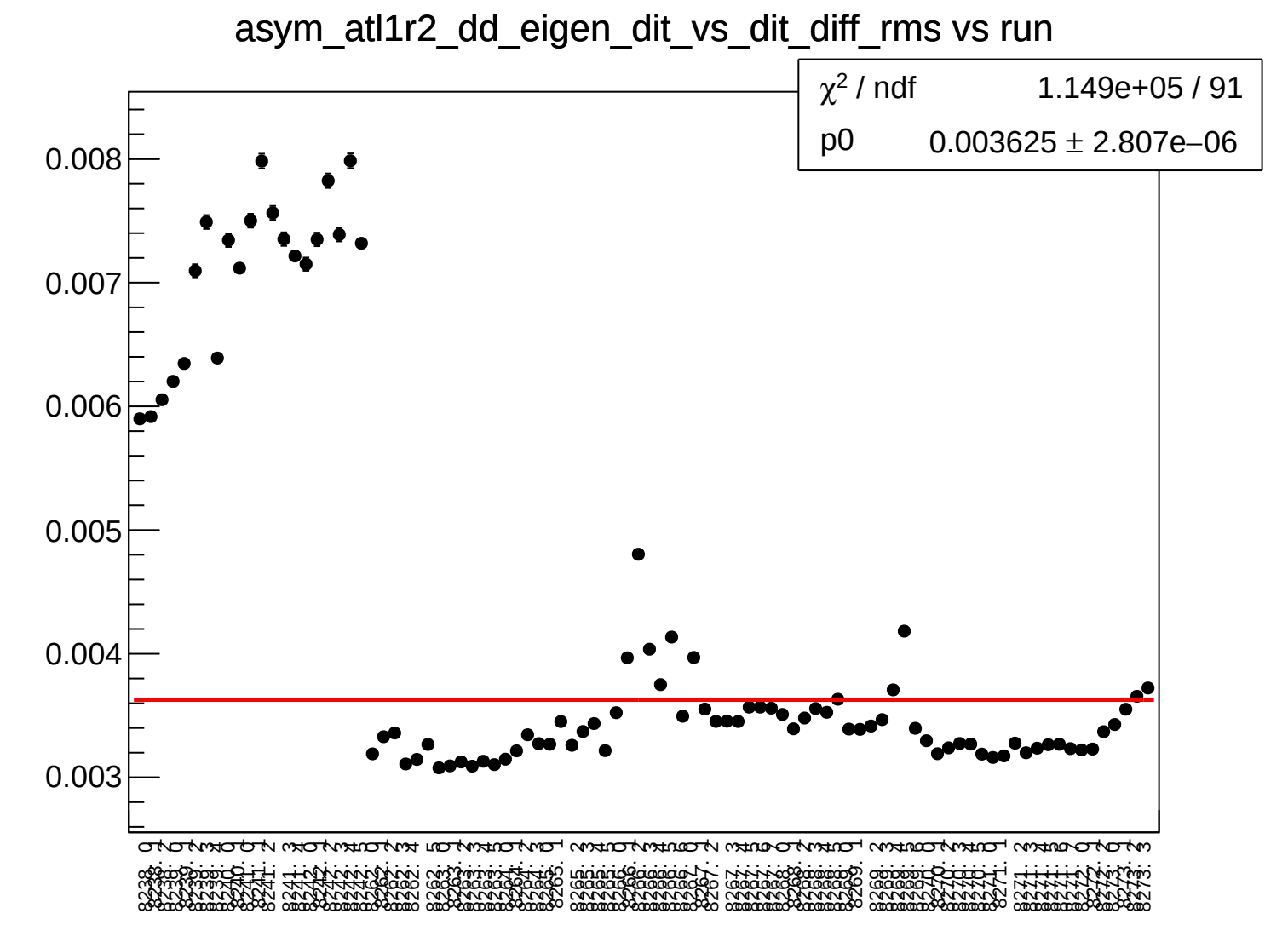

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.289e+04 / 91
p0 175.2 ± 0.1332
280
260
240
220
200
180
160
140
120
100

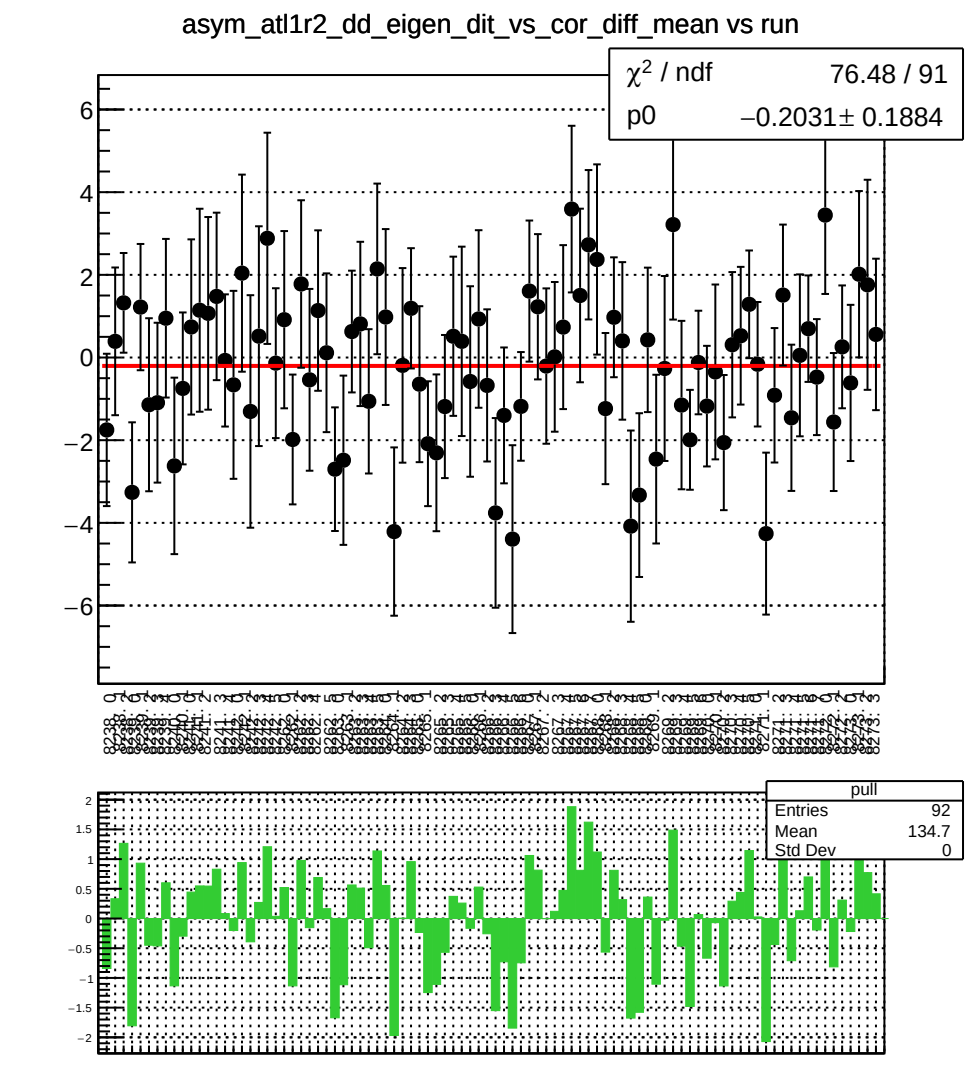

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.48 / 91
p0 −0.2031± 0.1884
pull
Entries 92
Mean 134.7
Std Dev 0
pull1D
Entries 92
Mean 0.007838
Std Dev 0.9117

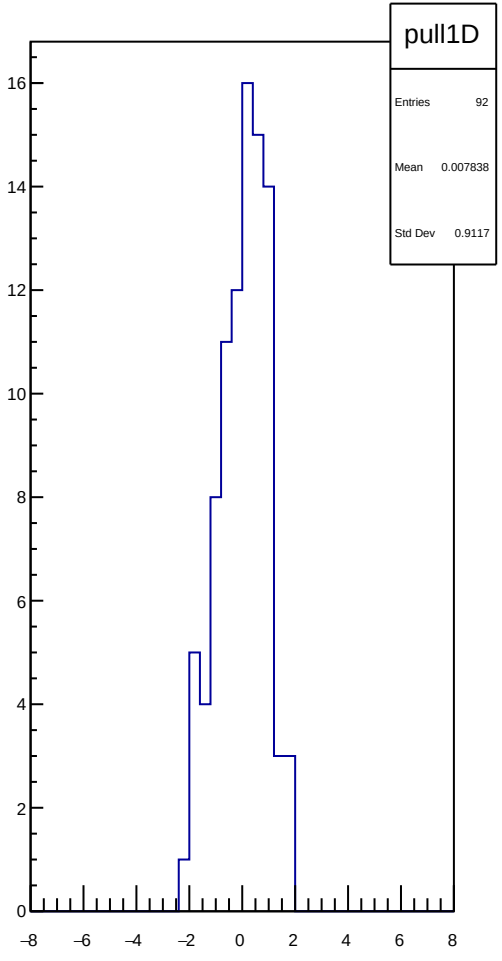

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.289e+04 / 91
p0 175.2 ± 0.1332
280
260
240
220
200
180
160
140
120
100

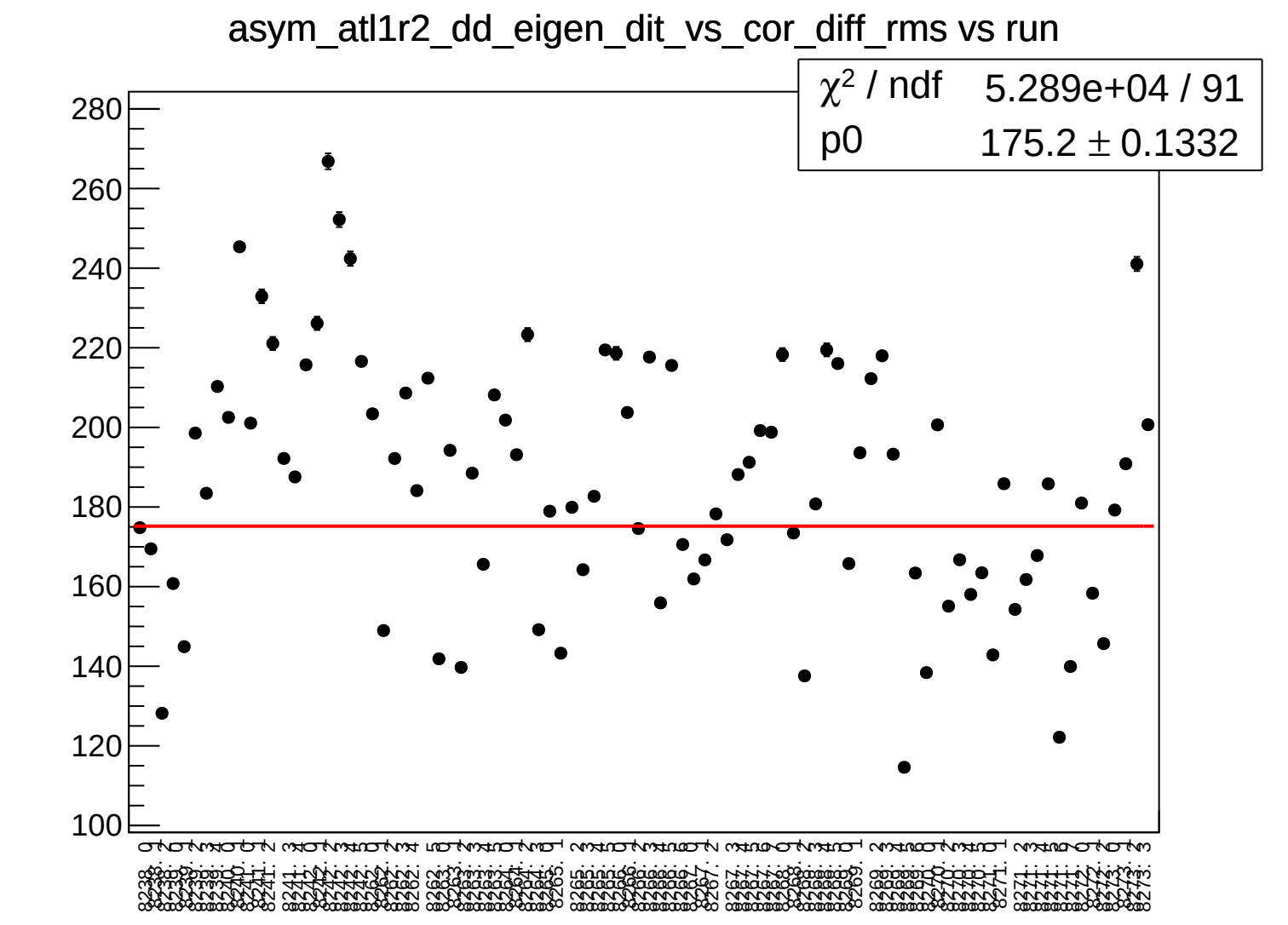

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.14 / 91
p0 8.841e−06 ± 3.97e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 92
Mean −60.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

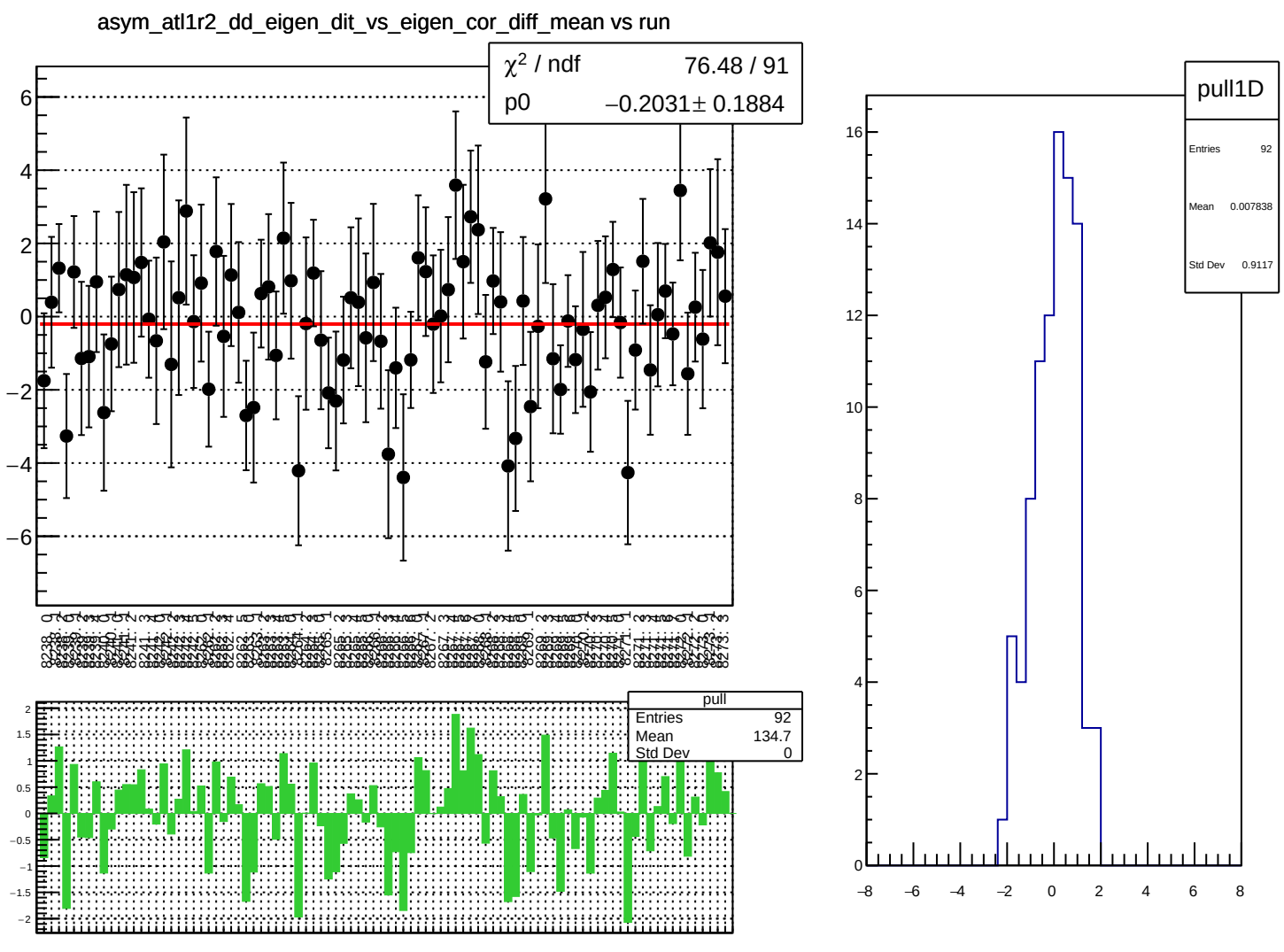

pull1D
Entries 92
Mean 0.0396
Std Dev 0.8846
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

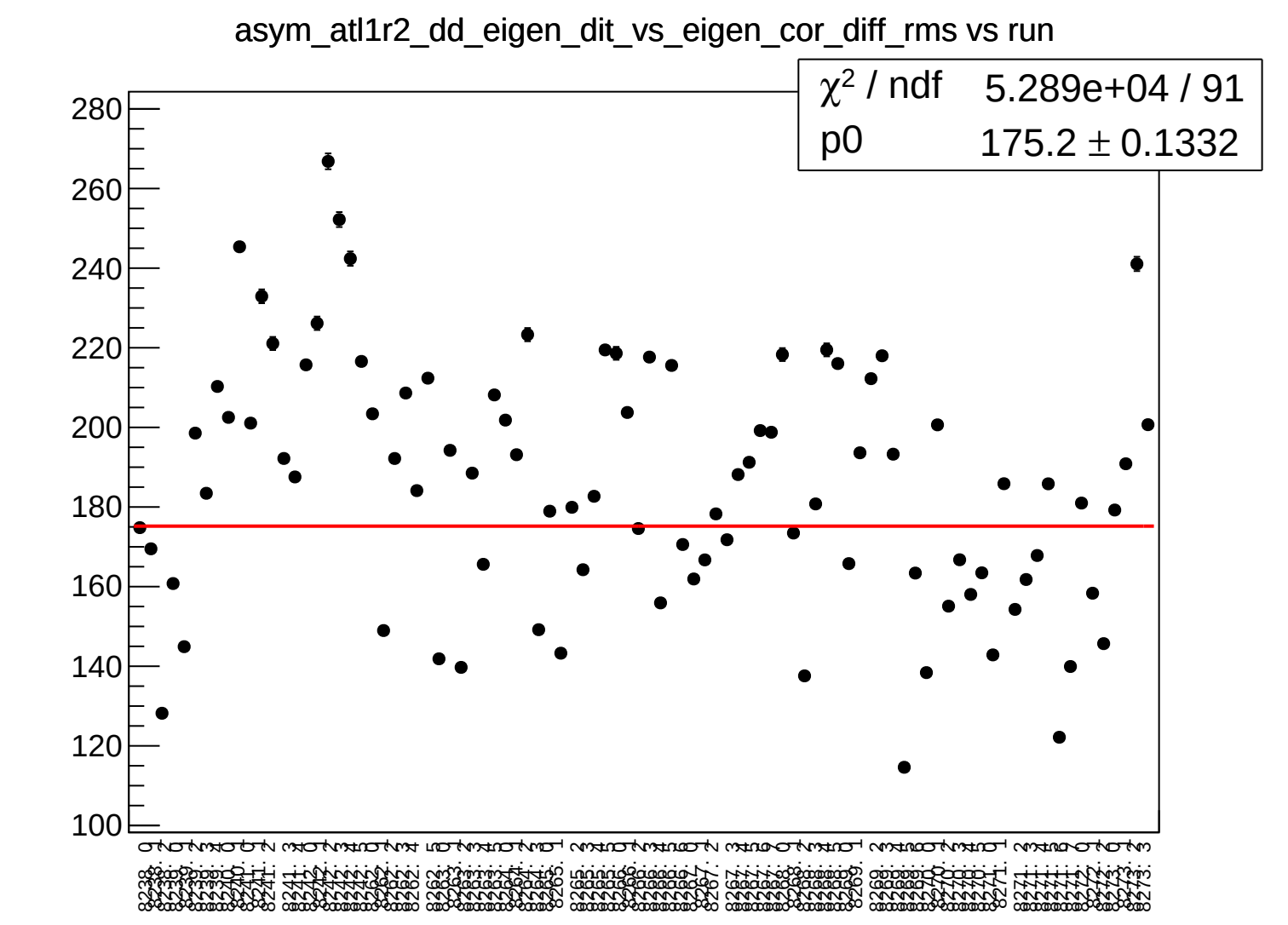

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.149e+05 / 91
p0 0.003625 ± 2.807e−06
0.008
0.007
0.006
0.005
0.004
0.003

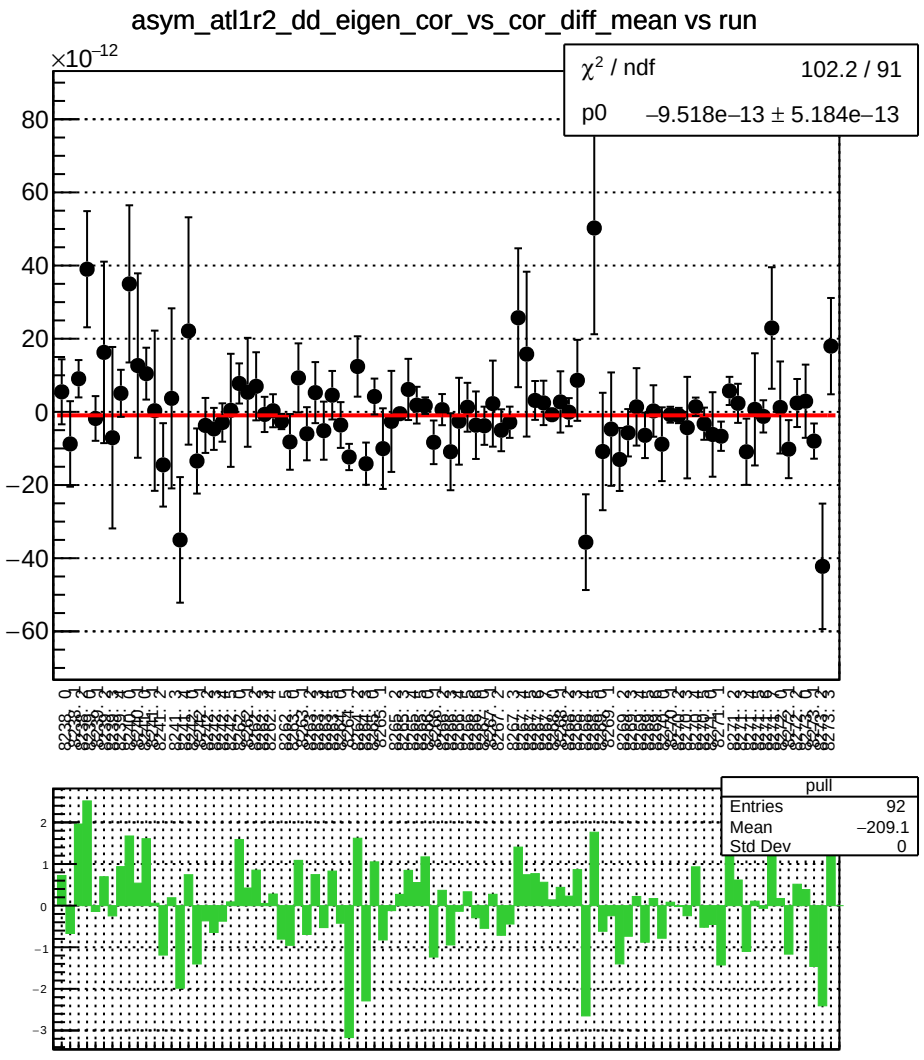

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.48 / 91
p0 −0.2031± 0.1884
pull
Entries 92
Mean 134.7
Std Dev 0

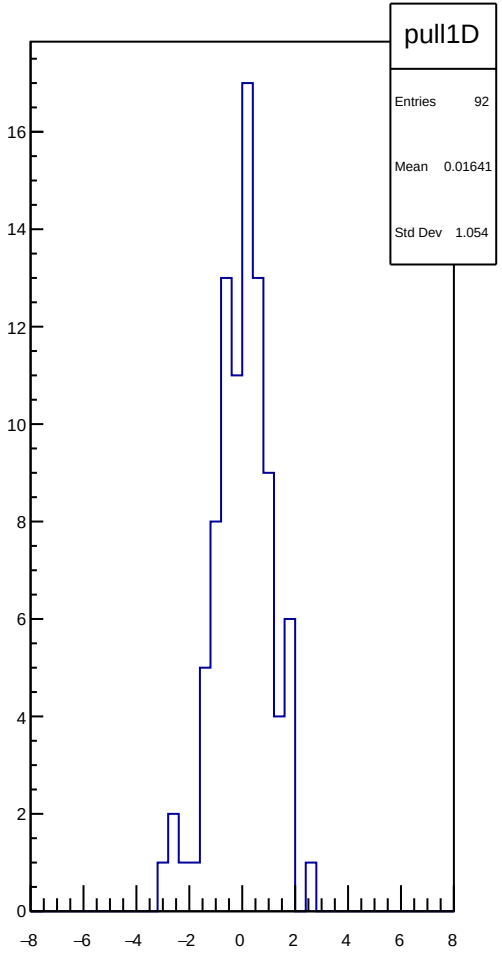

pull1D
Entries 92
Mean 0.007838
Std Dev 0.9117

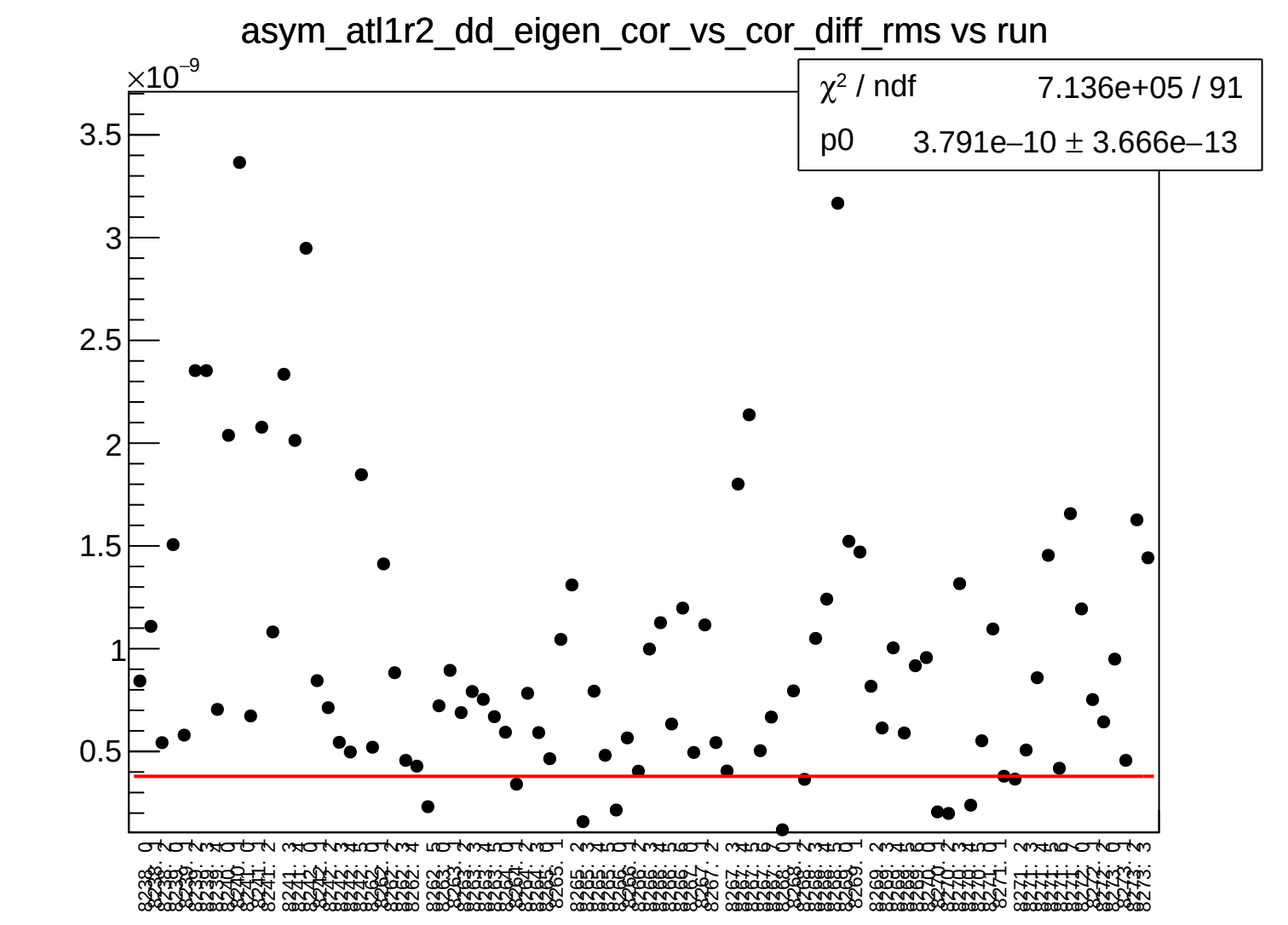

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.289e+04 / 91
p0 175.2 ± 0.1332
280
260
240
220
200
180
160
140
120
100

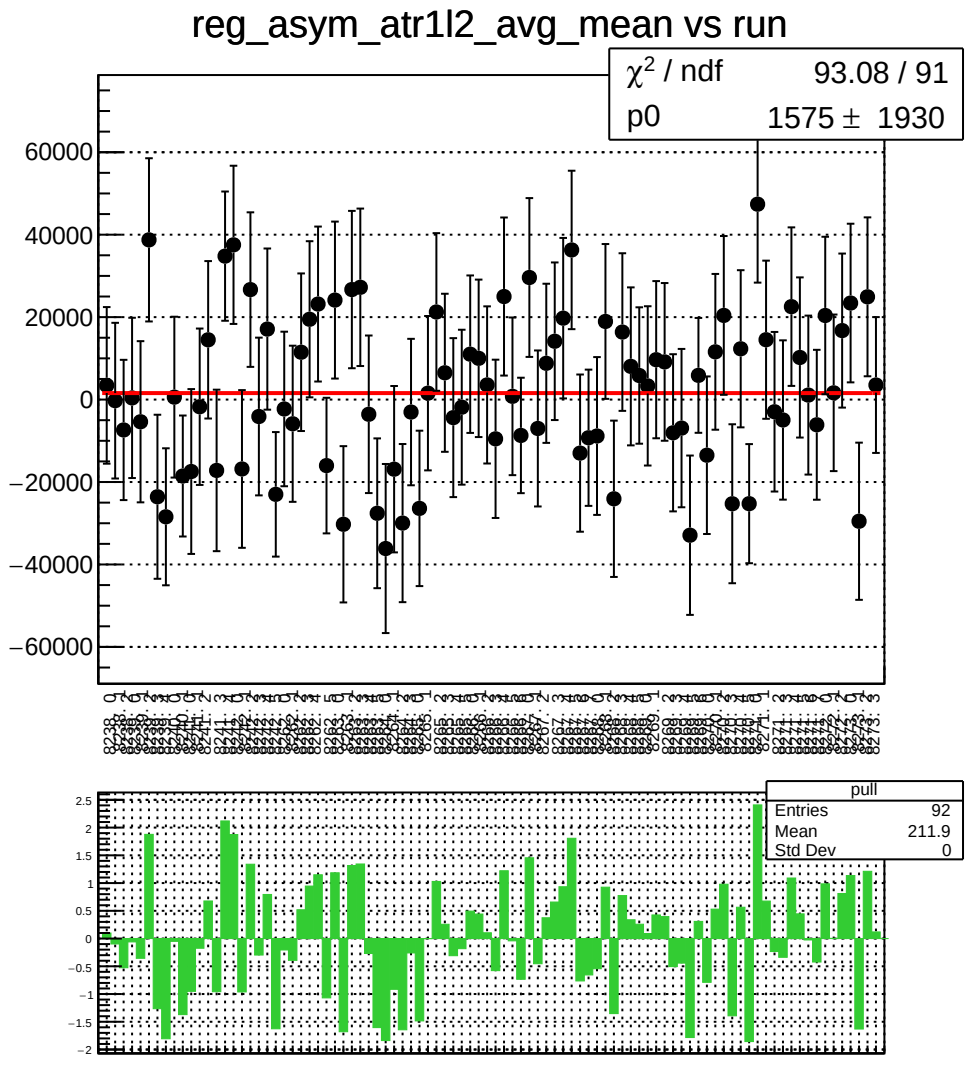

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.48 / 91
p0 −0.2031± 0.1884
pull
Entries 92
Mean 134.7
Std Dev 0
pull1D
Entries 92
Mean 0.007838
Std Dev 0.9117

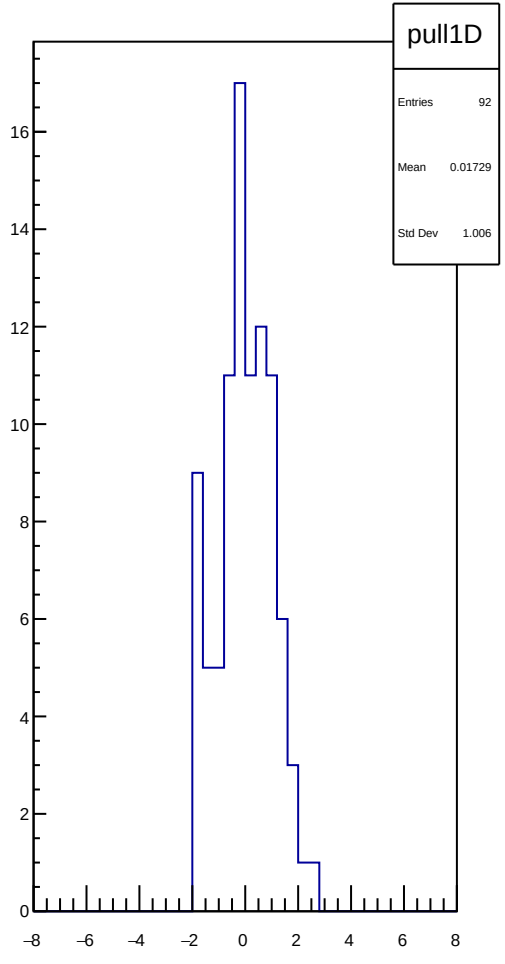

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.289e+04 / 91
p0 175.2 ± 0.1332
280
260
240
220
200
180
160
140
120
100

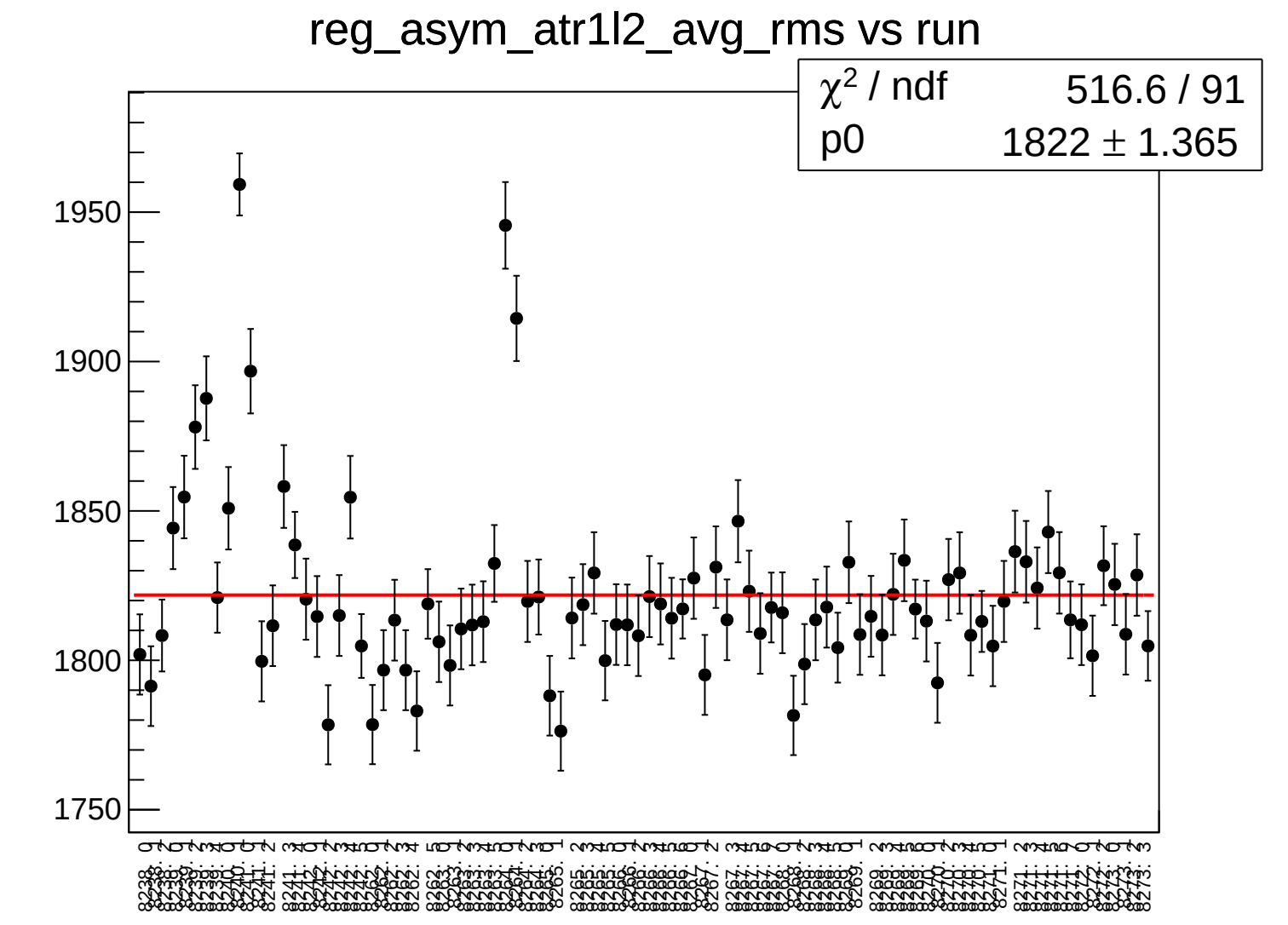

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.2 / 91
p0 −9.518e−13 ± 5.184e−13
pull
Entries 92
Mean −209.1
Std Dev 0

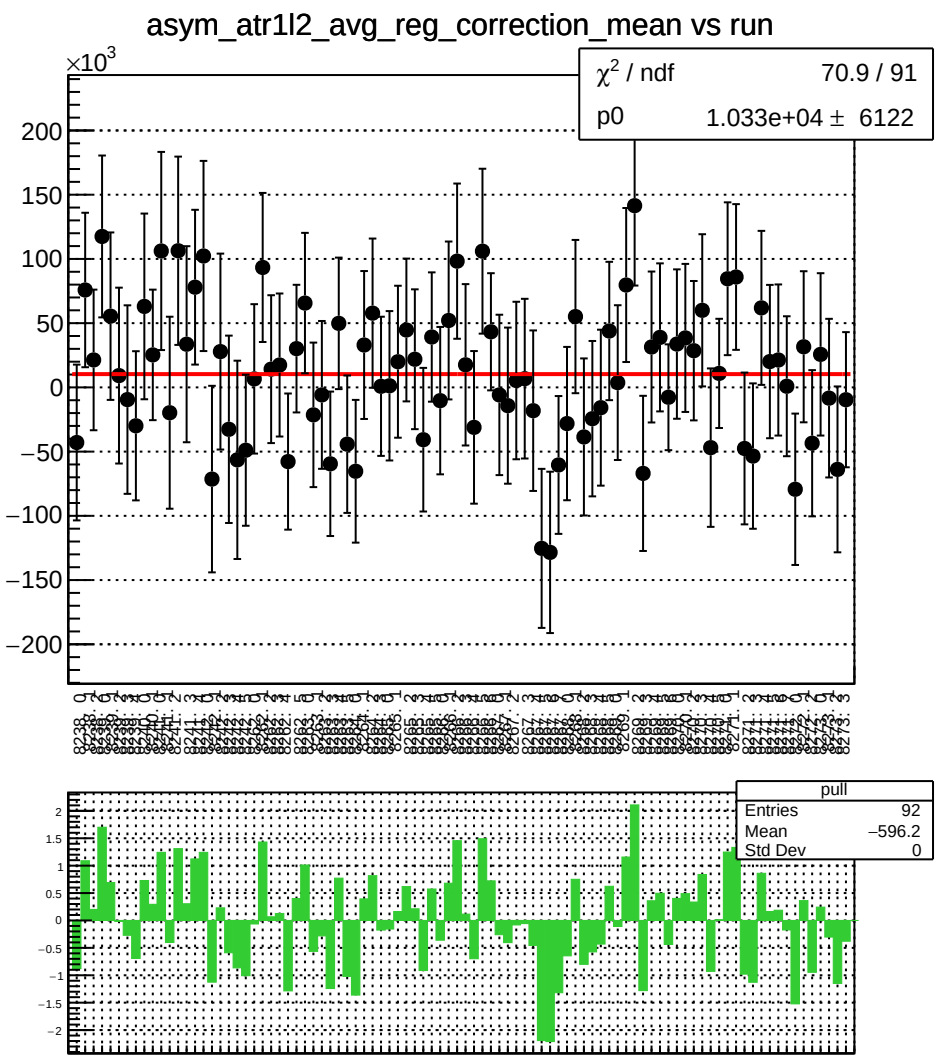

pull1D
Entries 92
Mean 0.01641
Std Dev 1.054

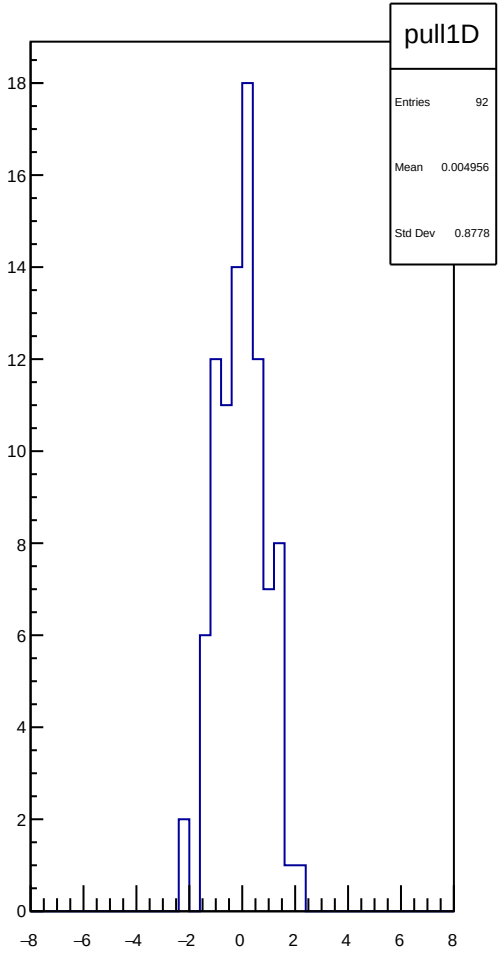

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.136e+05 / 91
p0 3.791e−10 ± 3.666e−13
3.5
3
2.5
2
1.5
1
0.5

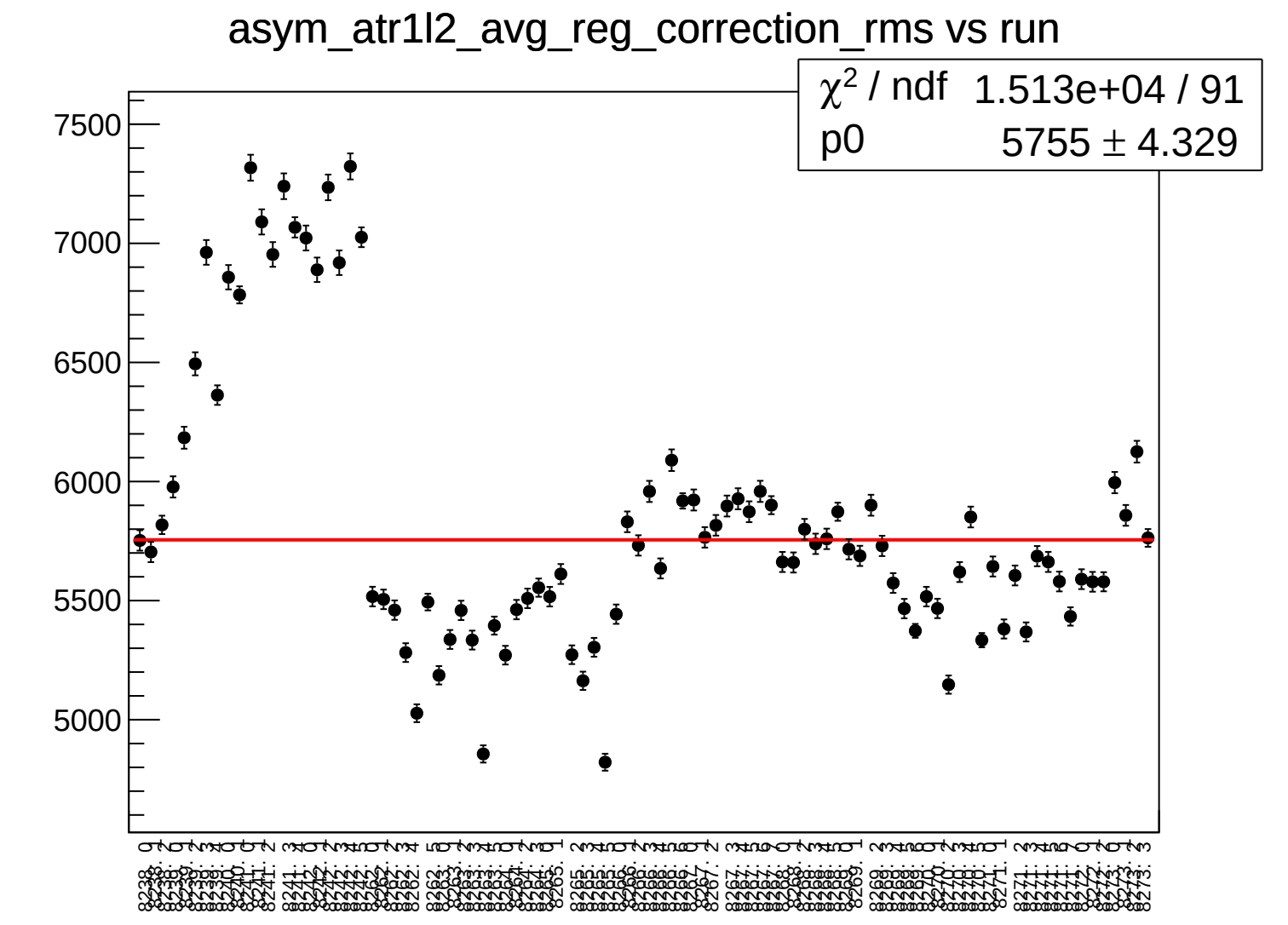

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 93.08 / 91
p0 1575 ± 1930
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 211.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

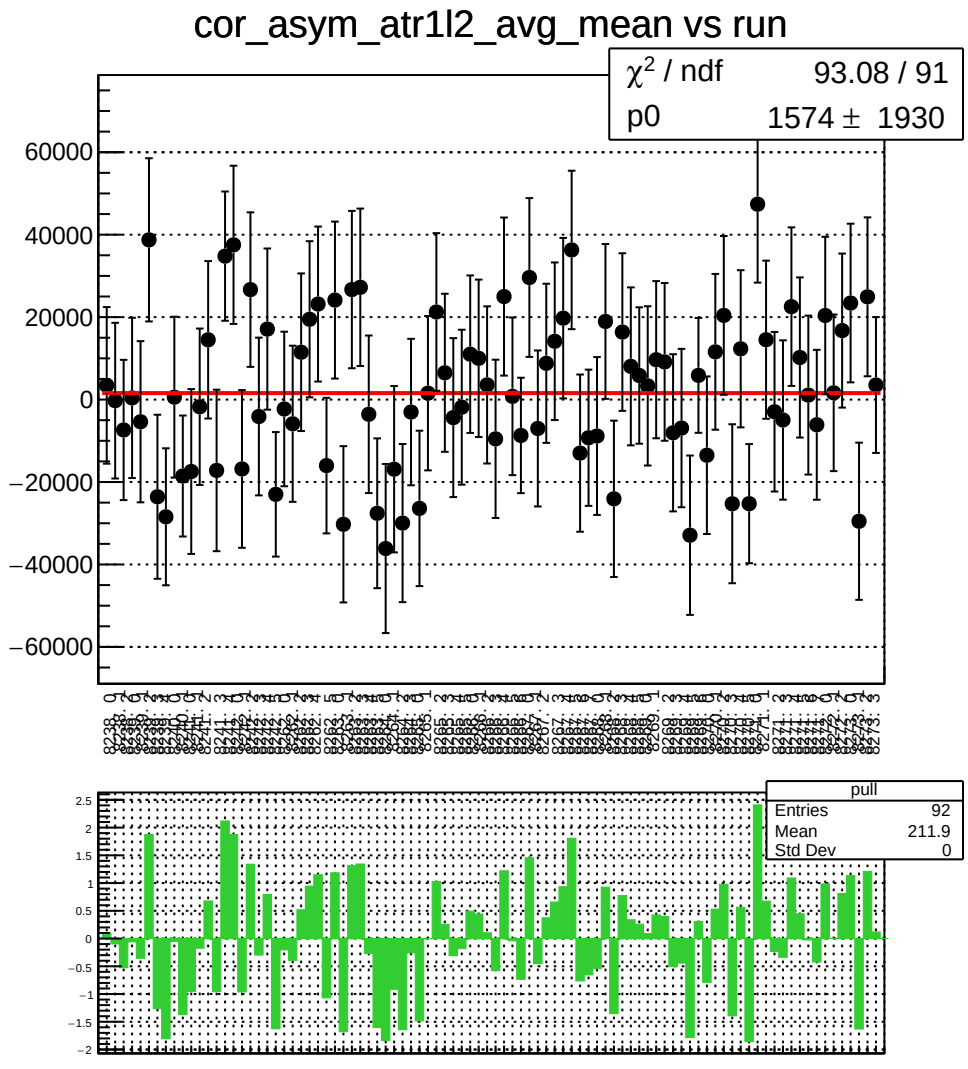

pull1D
Entries 92
Mean 0.01729
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

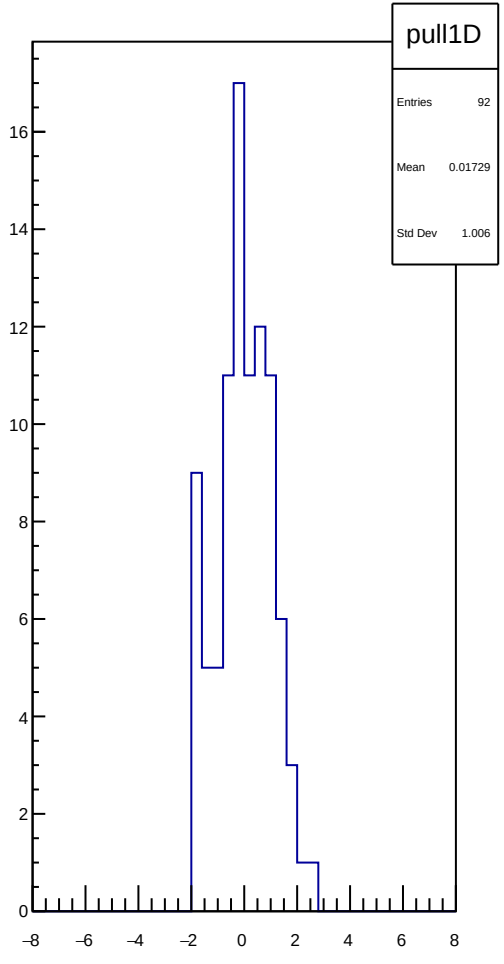

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 516.6 / 91
p0 1822 ± 1.365
1950
1900
1850
1800
1750

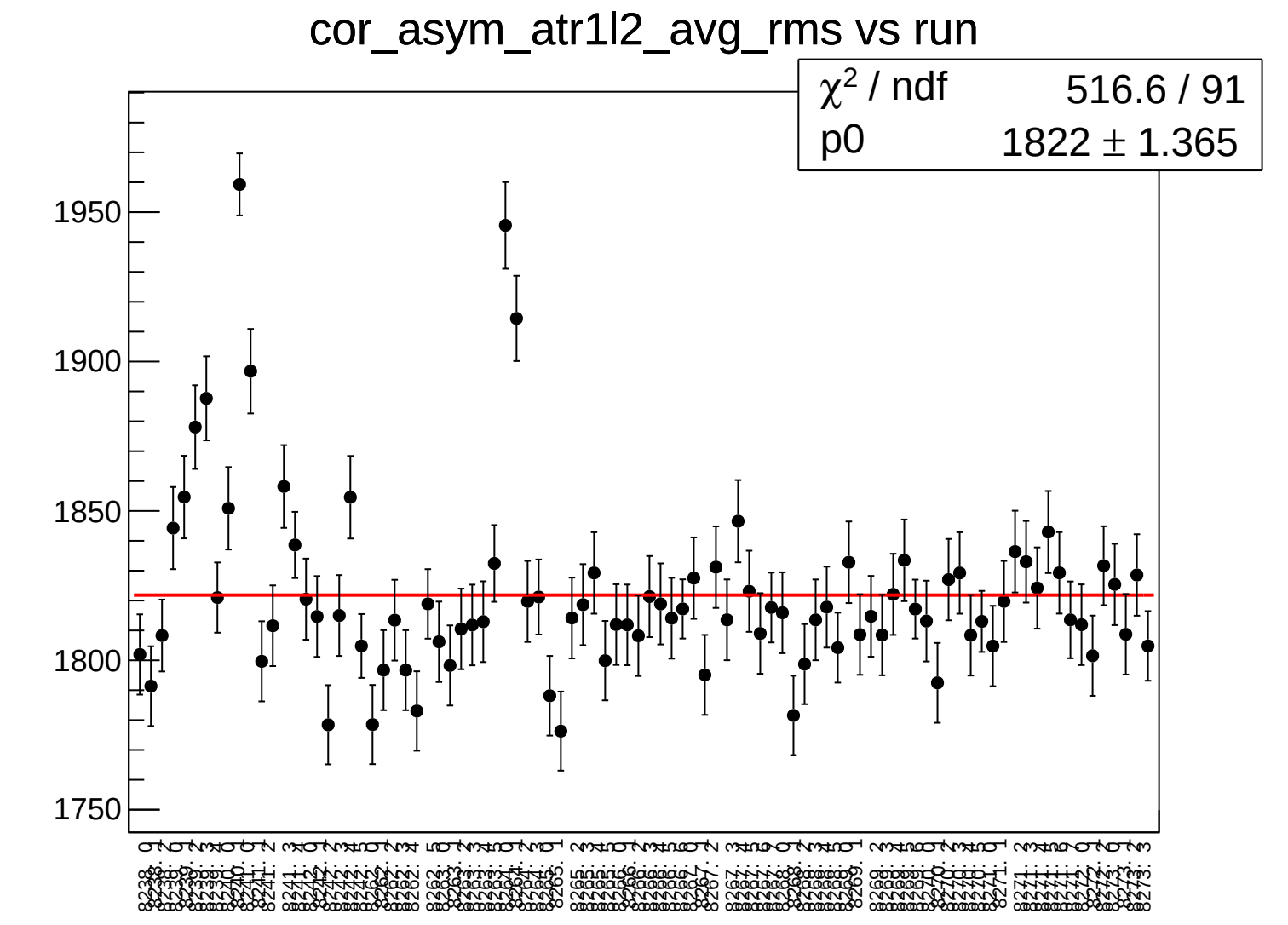

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 70.9 / 91
p0 1.033e+04 ± 6122
pull
Entries 92
Mean −596.2
Std Dev 0

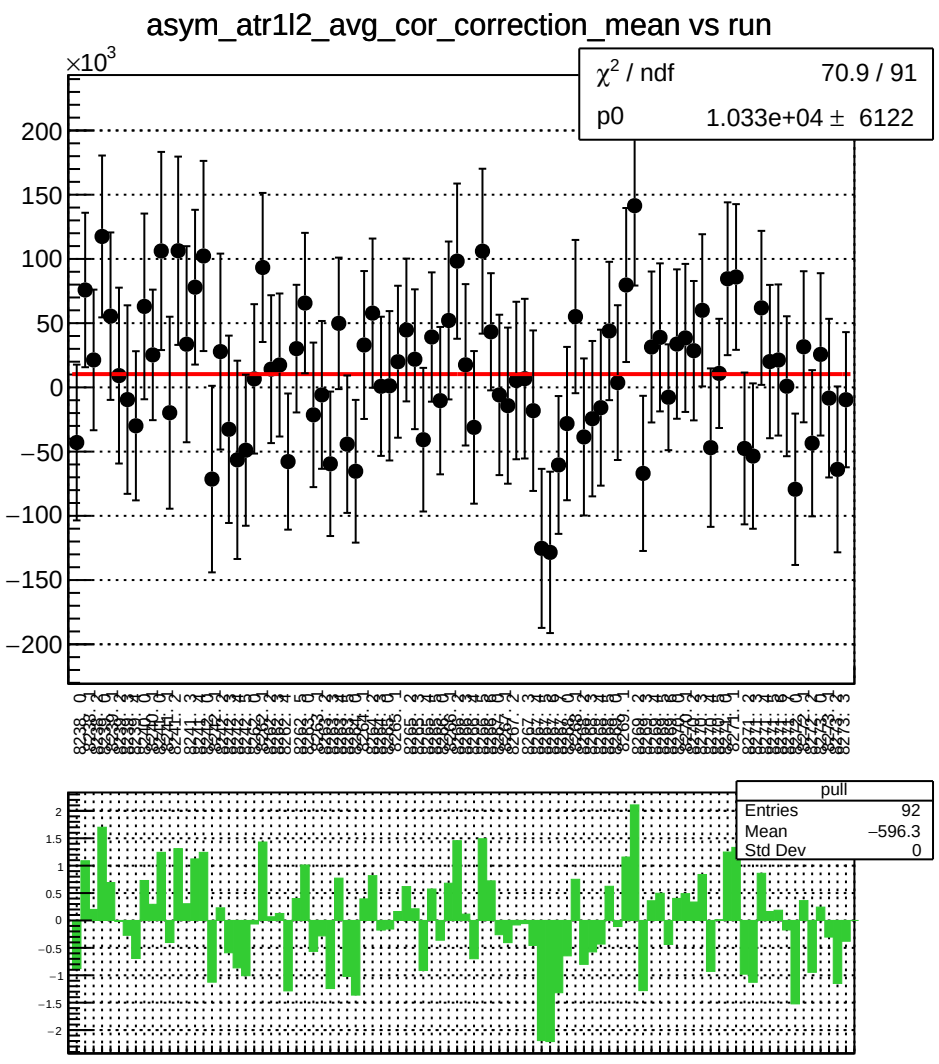

pull1D
Entries 92
Mean 0.004956
Std Dev 0.8778

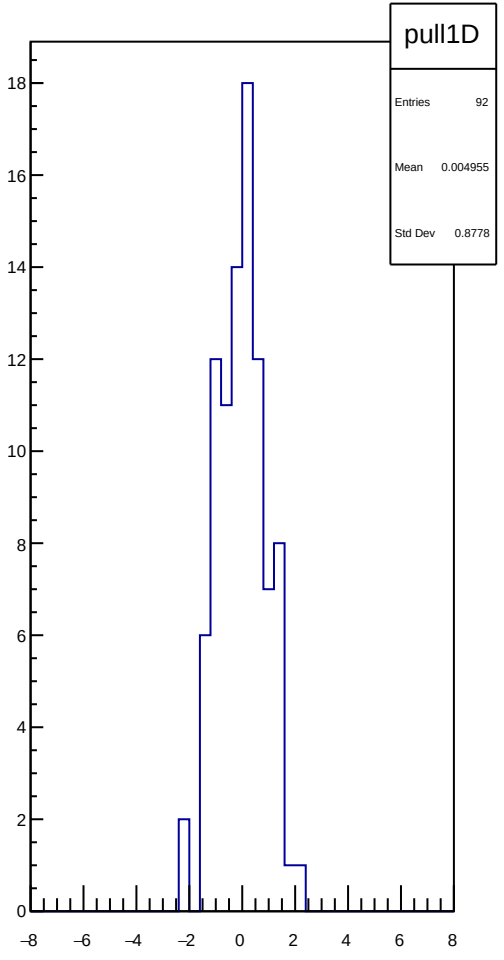

asym_atr1l2_avg_reg_correction_rms vs run
$\chi^2$ / ndf 1.513e+04 / 91
p0 5755 ± 4.329
7500
7000
6500
6000
5500
5000

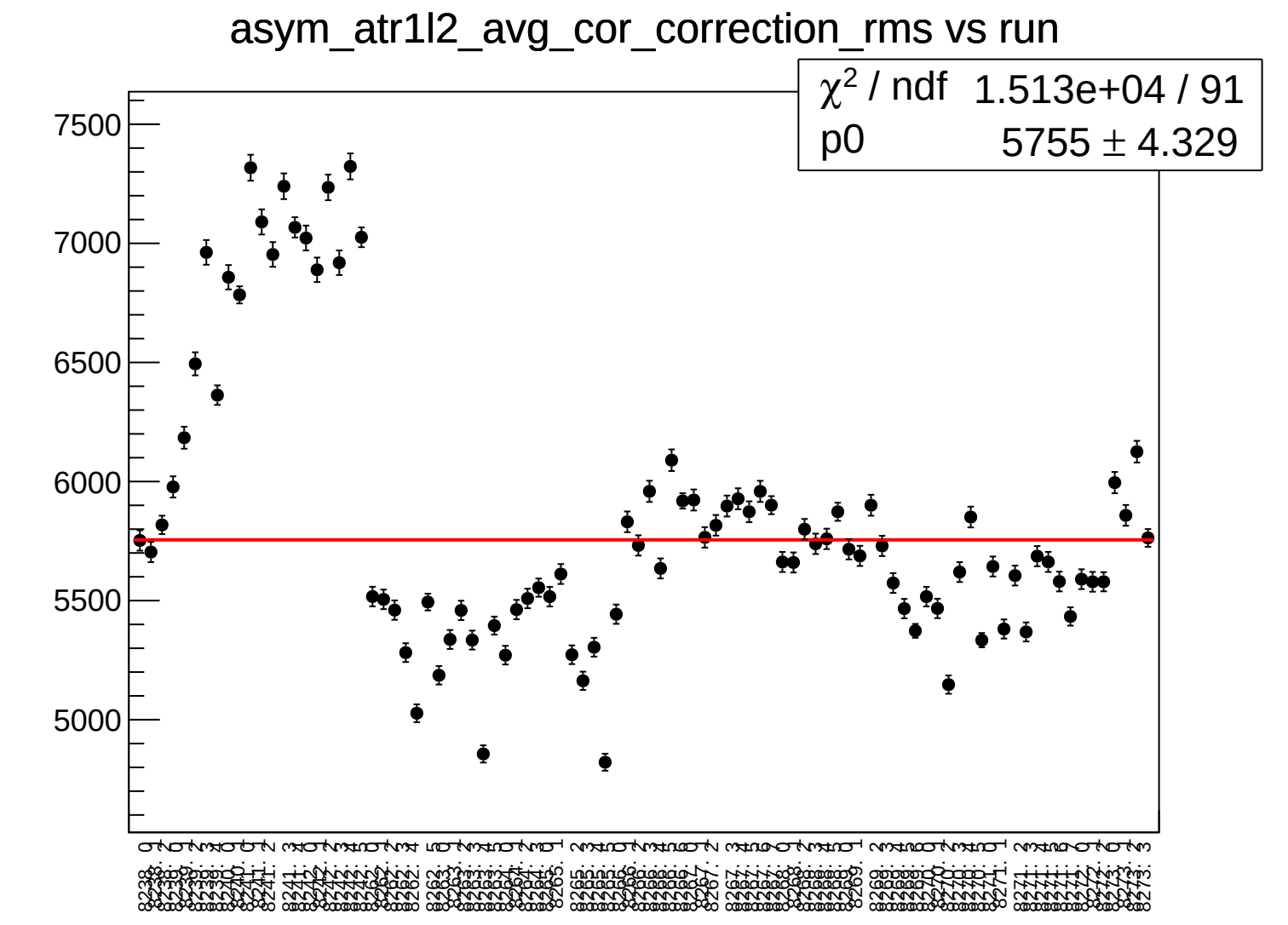

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 93.08 / 91
p0 1574 ± 1930
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 211.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

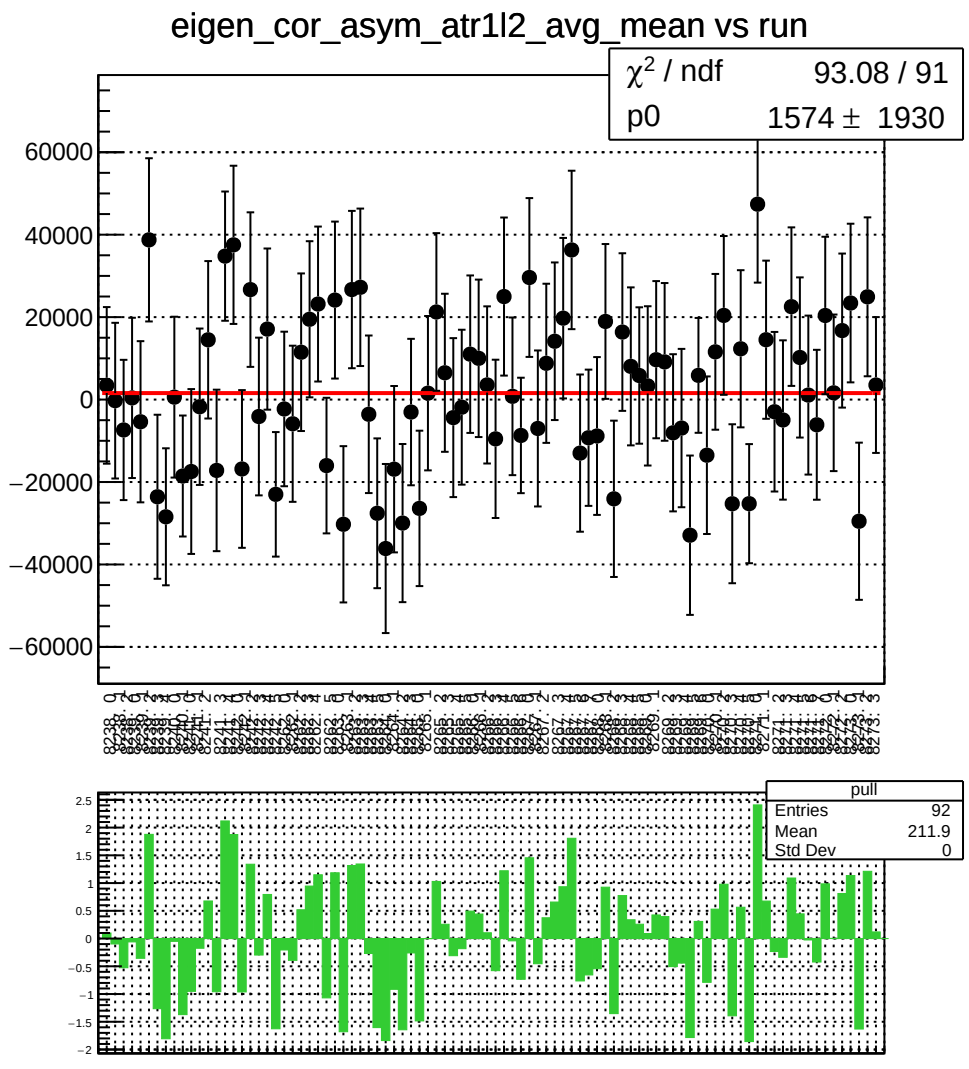

pull1D
Entries 92
Mean 0.01729
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

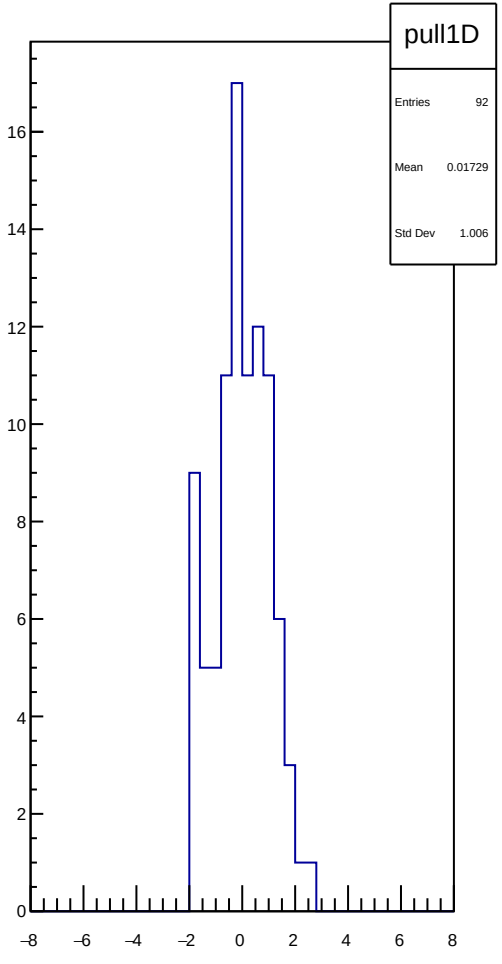

cor_asym_atr1l2_avg_rms vs run
$\chi^2$ / ndf 516.6 / 91
p0 1822 ± 1.365
1950
1900
1850
1800
1750

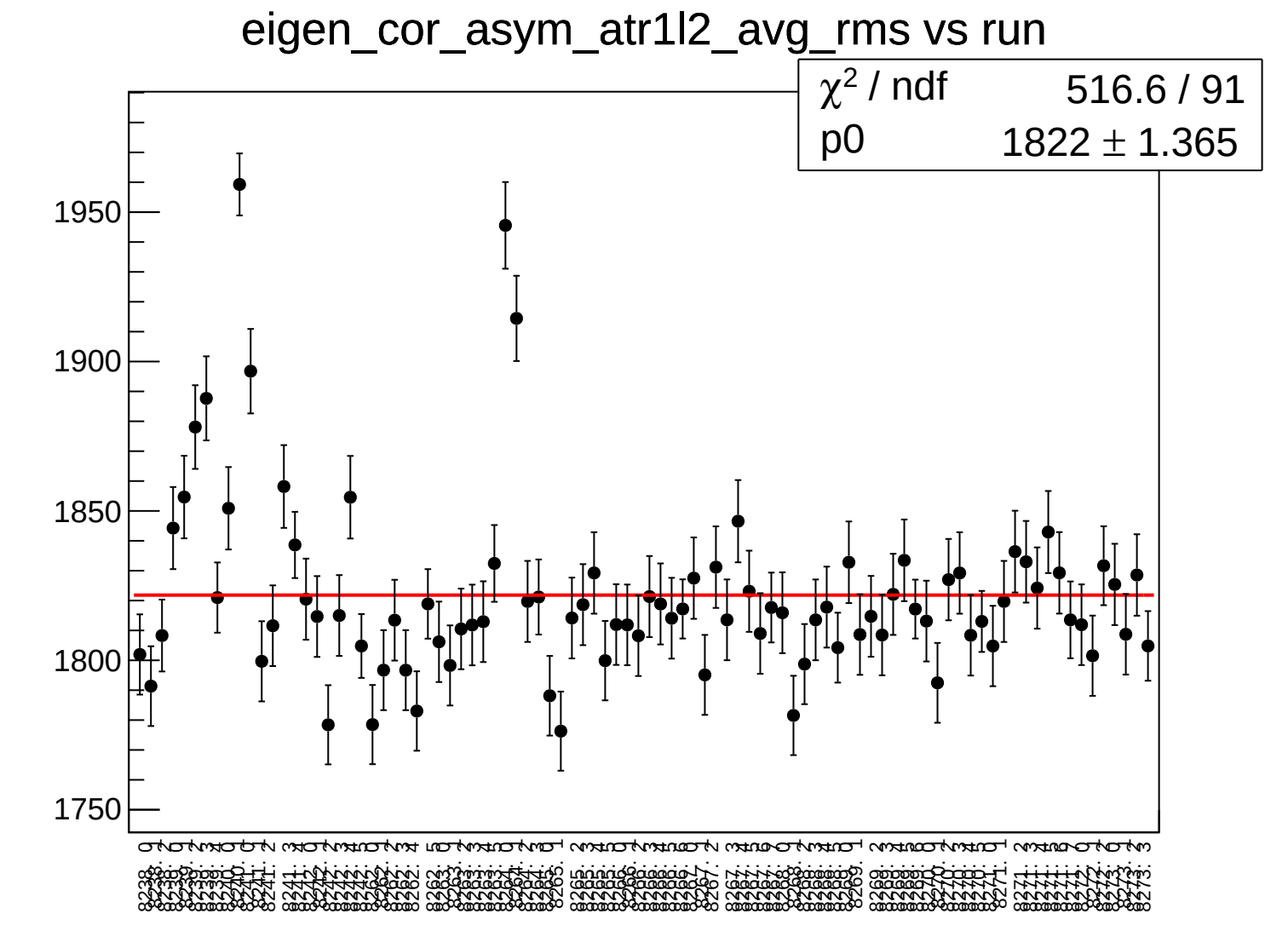

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 70.9 / 91
p0 1.033e+04 ± 6122
pull
Entries 92
Mean −596.3
Std Dev 0

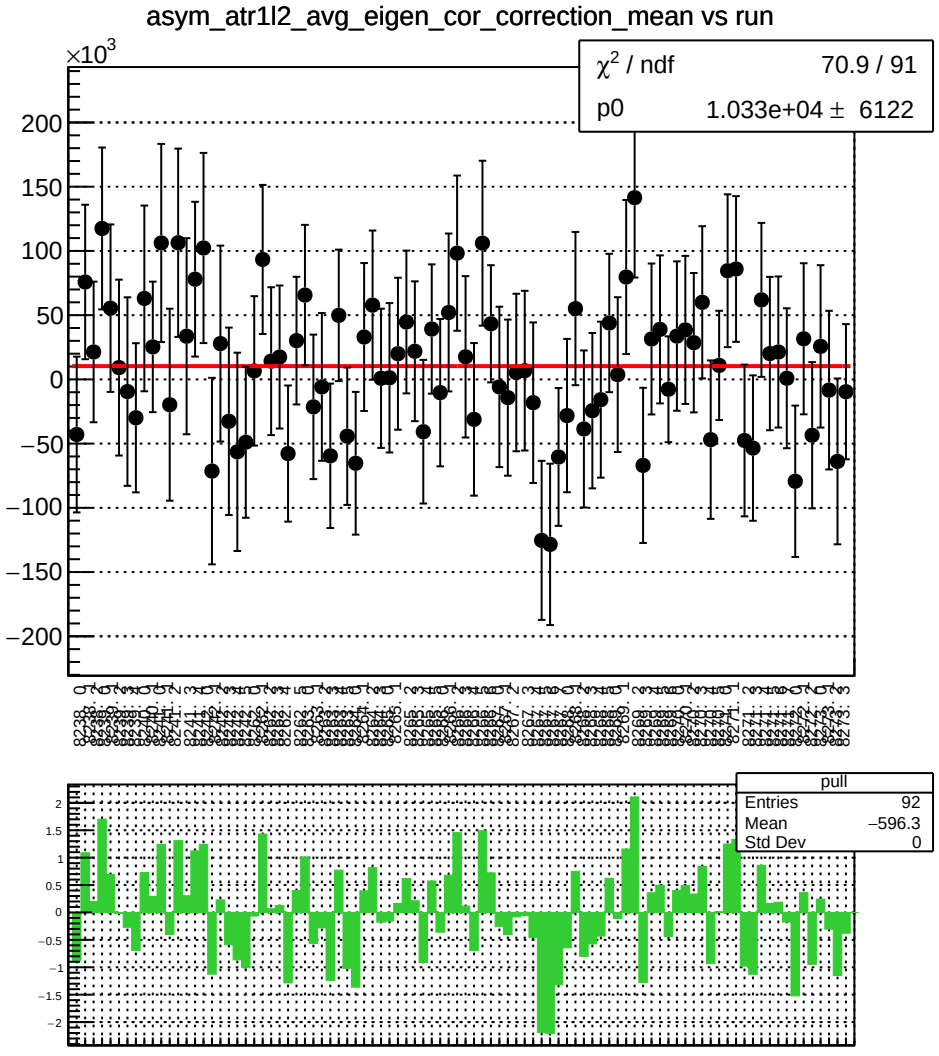

pull1D
Entries 92
Mean 0.004955
Std Dev 0.8778

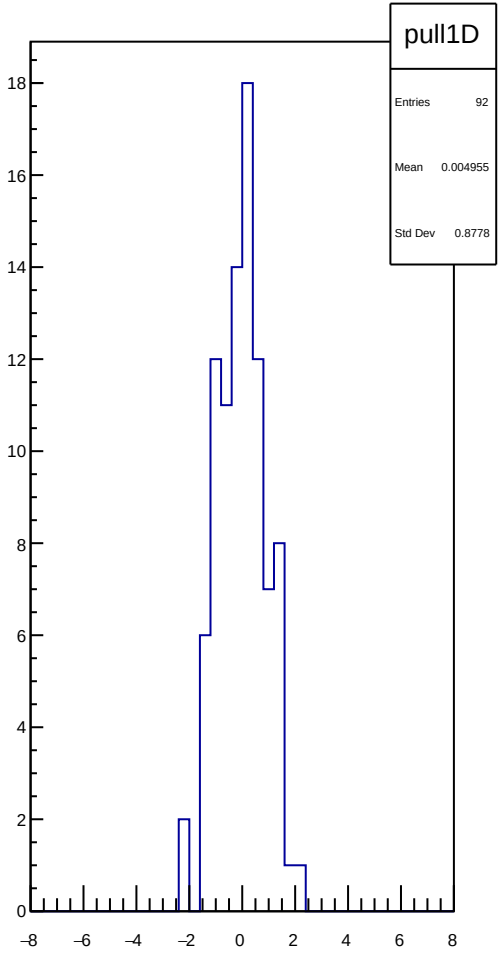

asym_atr1l2_avg_cor_correction_rms vs run
$\chi^2$ / ndf 1.513e+04 / 91
p0 5755 ± 4.329
7500
7000
6500
6000
5500
5000

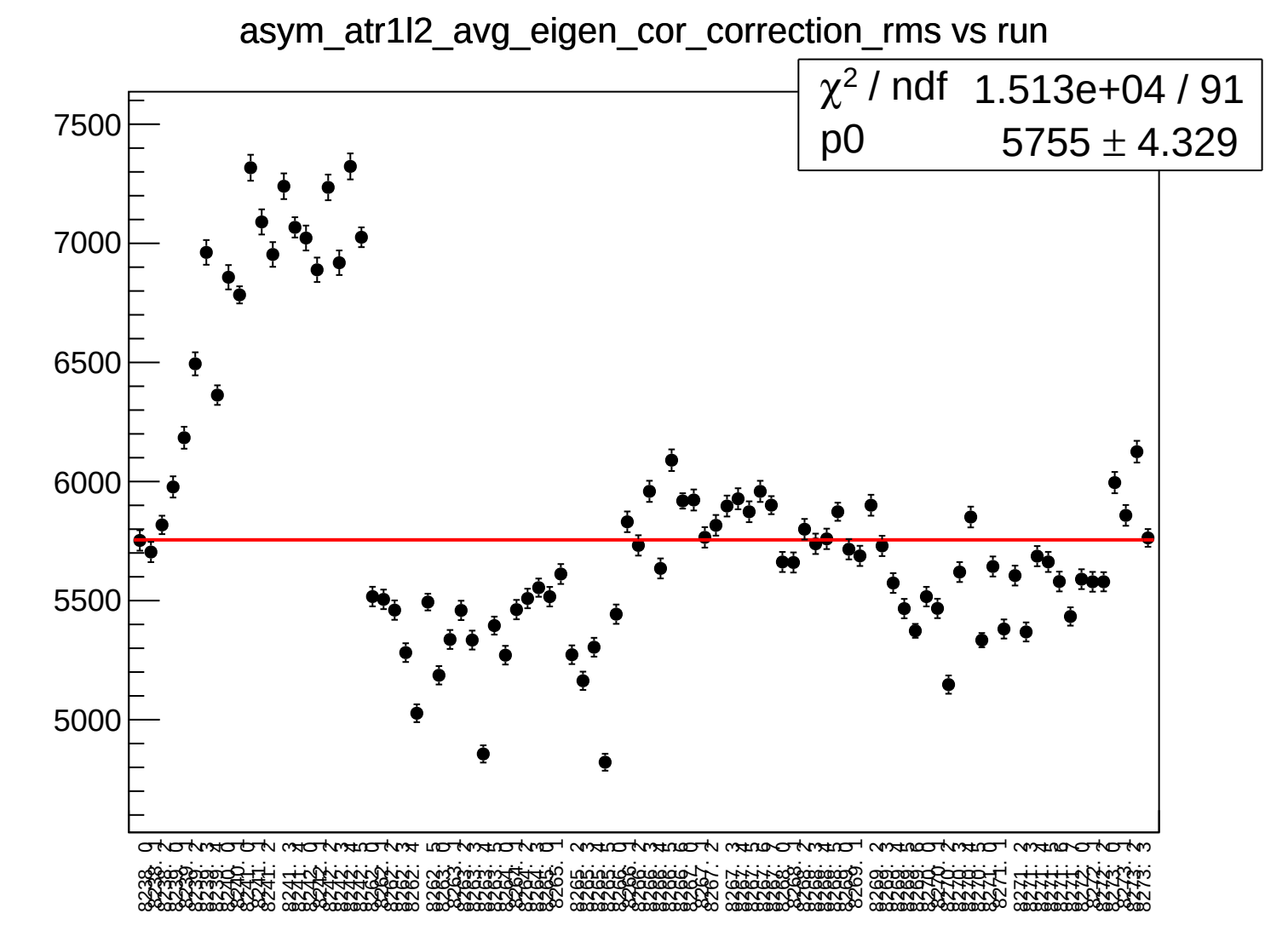

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 93.08 / 91
p0 1574 ± 1930
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 211.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

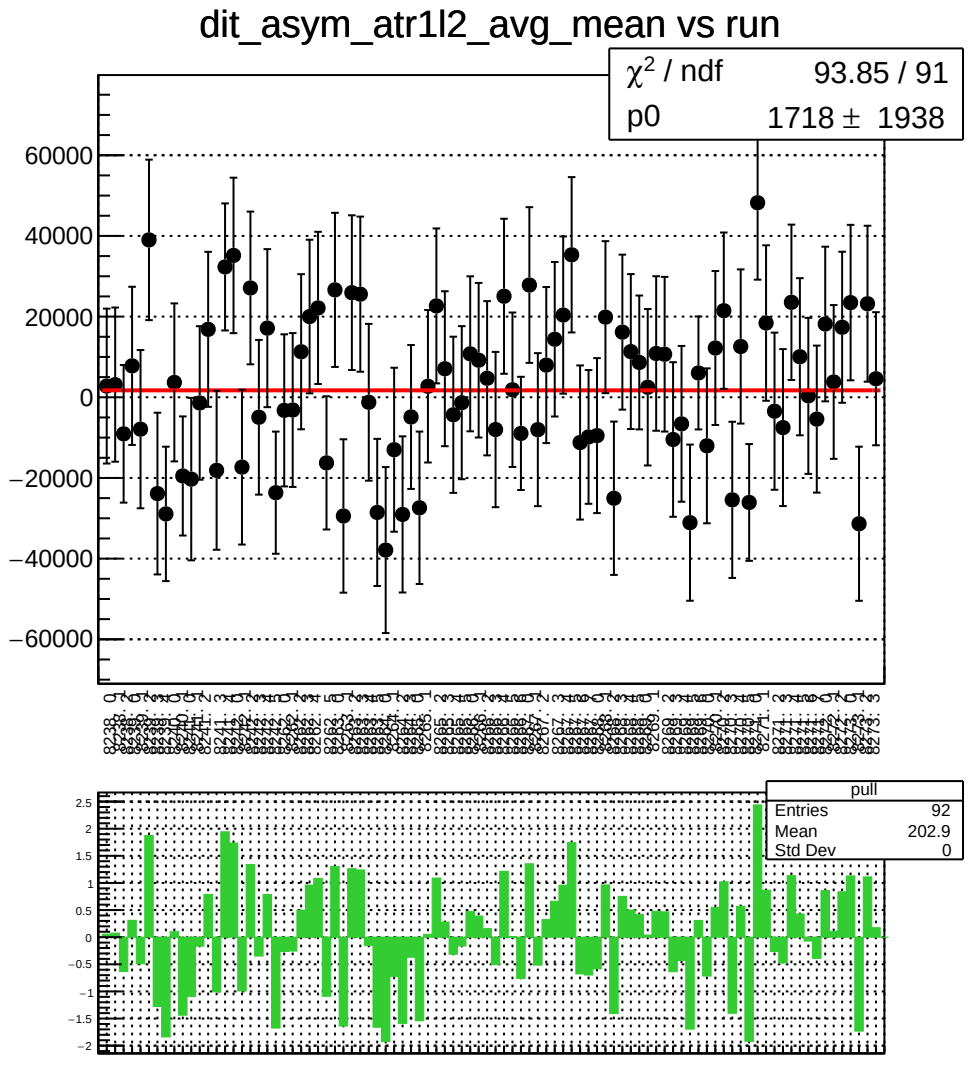

pull1D
Entries 92
Mean 0.01729
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

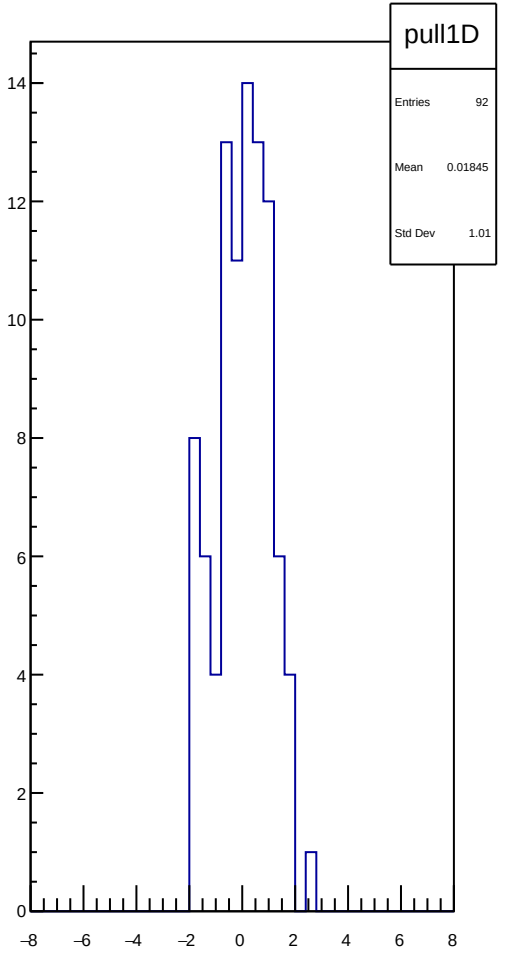

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 516.6 / 91
p0 1822 ± 1.365
1950
1900
1850
1800
1750

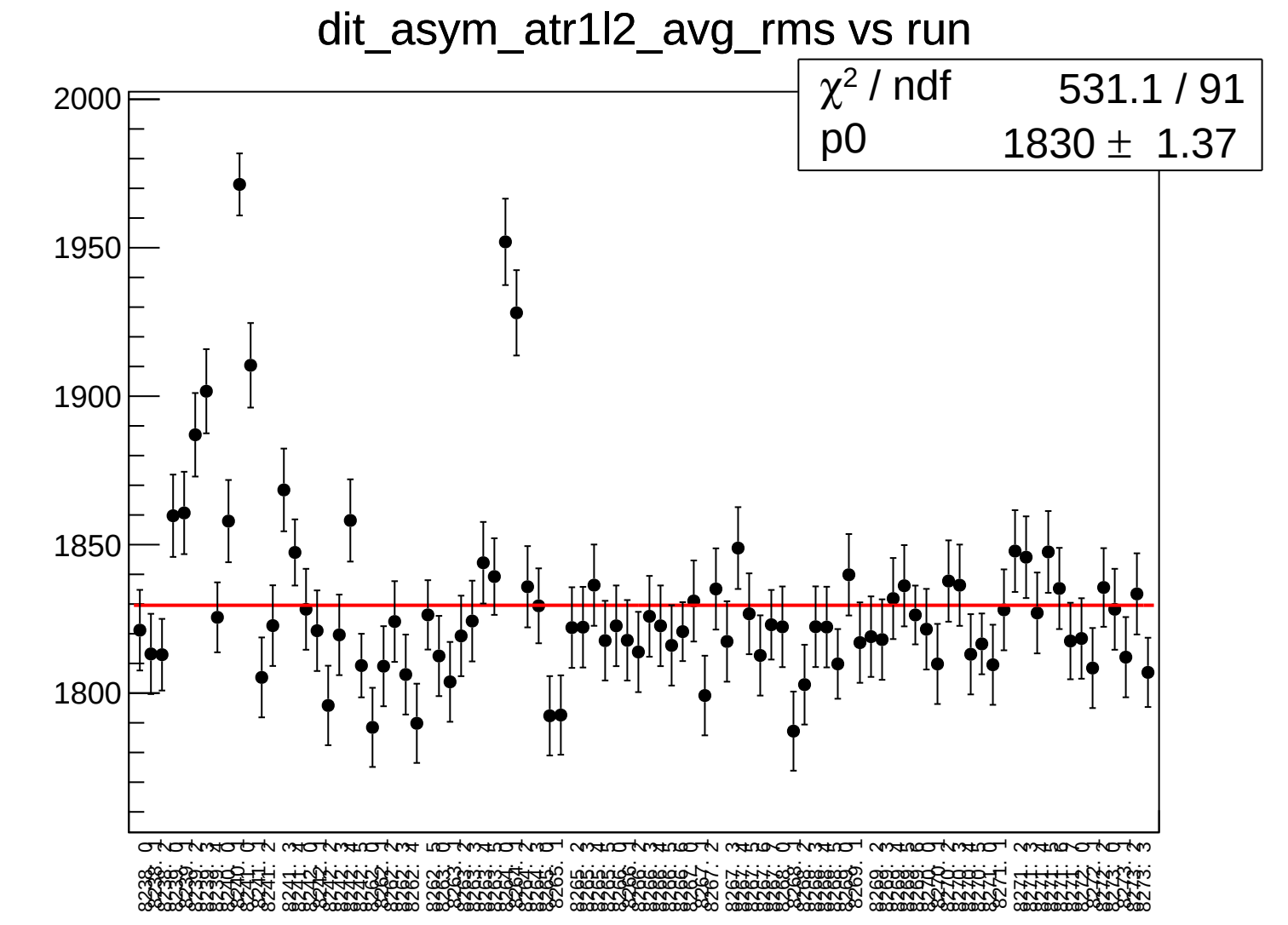

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 70.9 / 91
p0 1.033e+04 ± 6122
pull
Entries 92
Mean −596.3
Std Dev 0

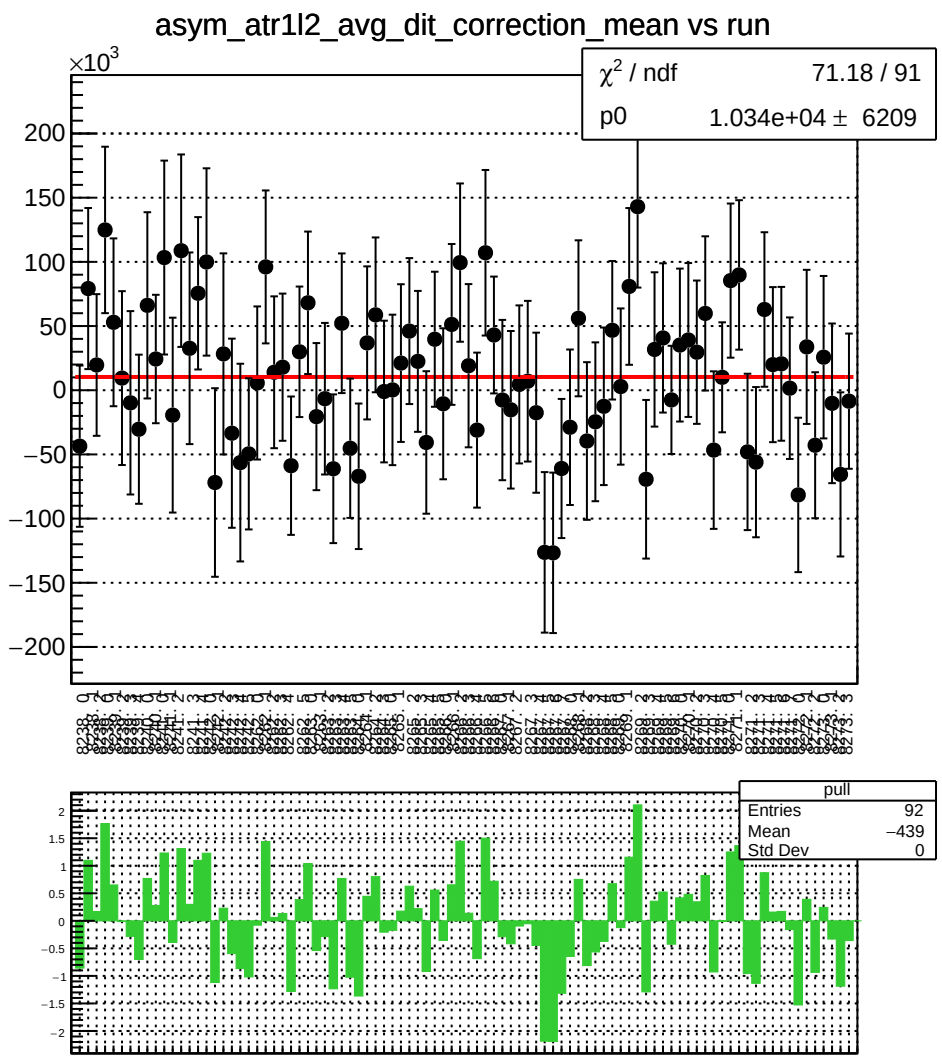

pull1D
Entries 92
Mean 0.004955
Std Dev 0.8778

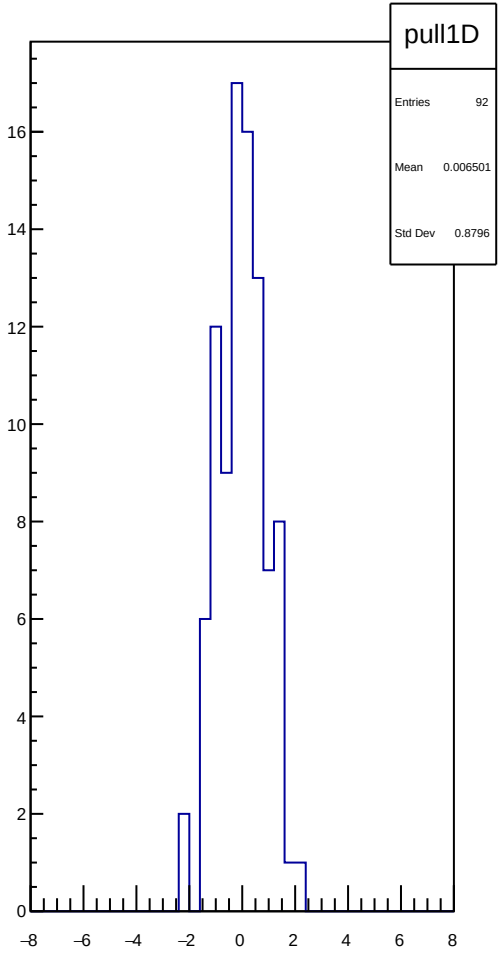

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.513e+04 / 91
p0 5755 ± 4.329
7500
7000
6500
6000
5500
5000

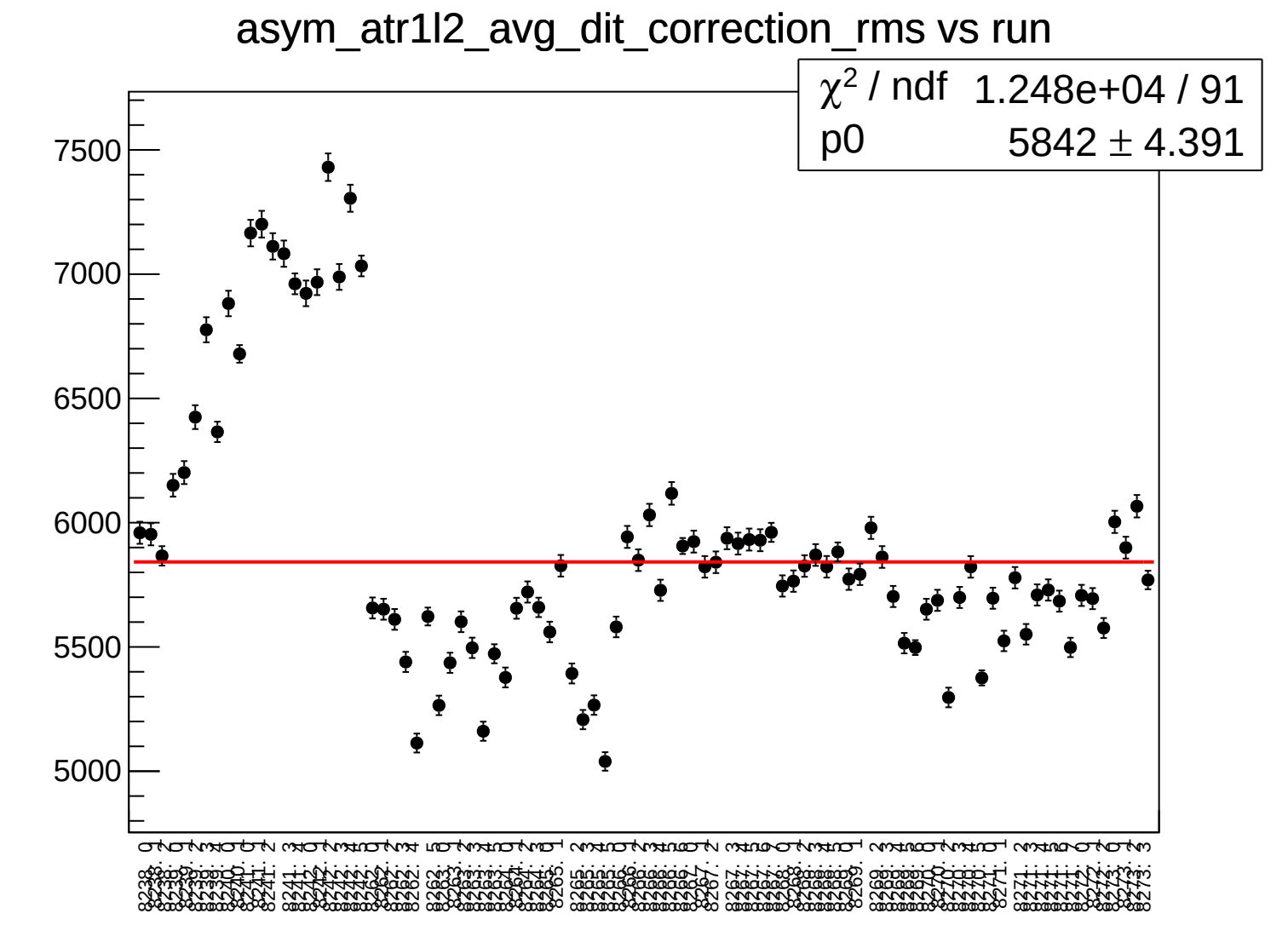

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 93.85 / 91
p0 1718 ± 1938
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 202.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

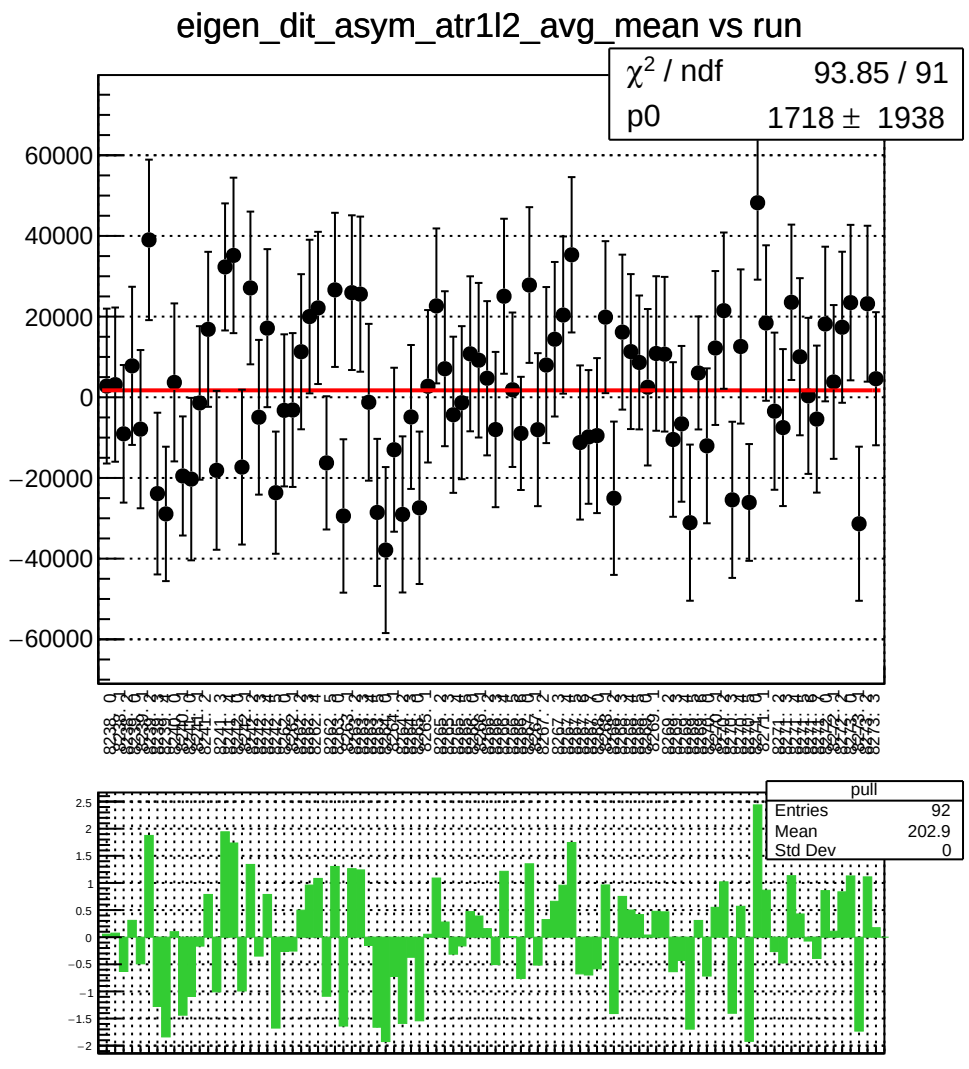

pull1D
Entries 92
Mean 0.01845
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

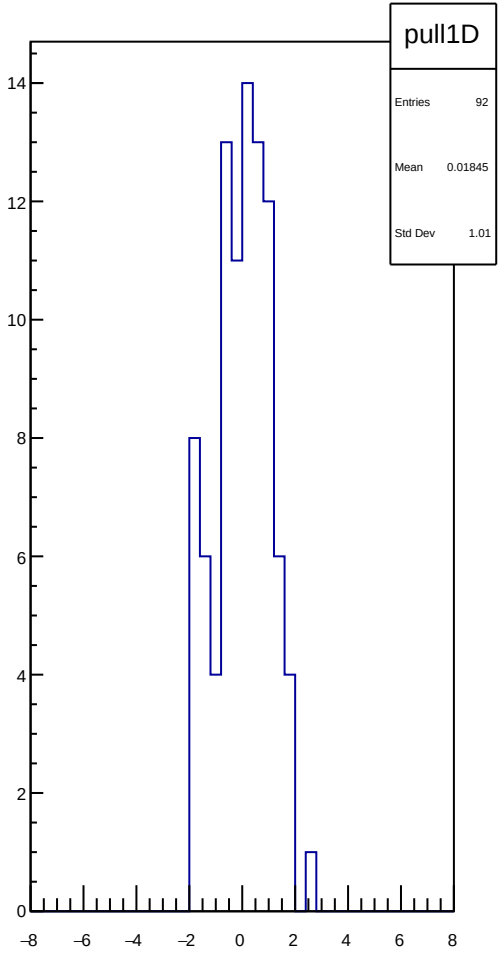

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 531.1 / 91
p0 1830 ± 1.37
2000
1950
1900
1850
1800

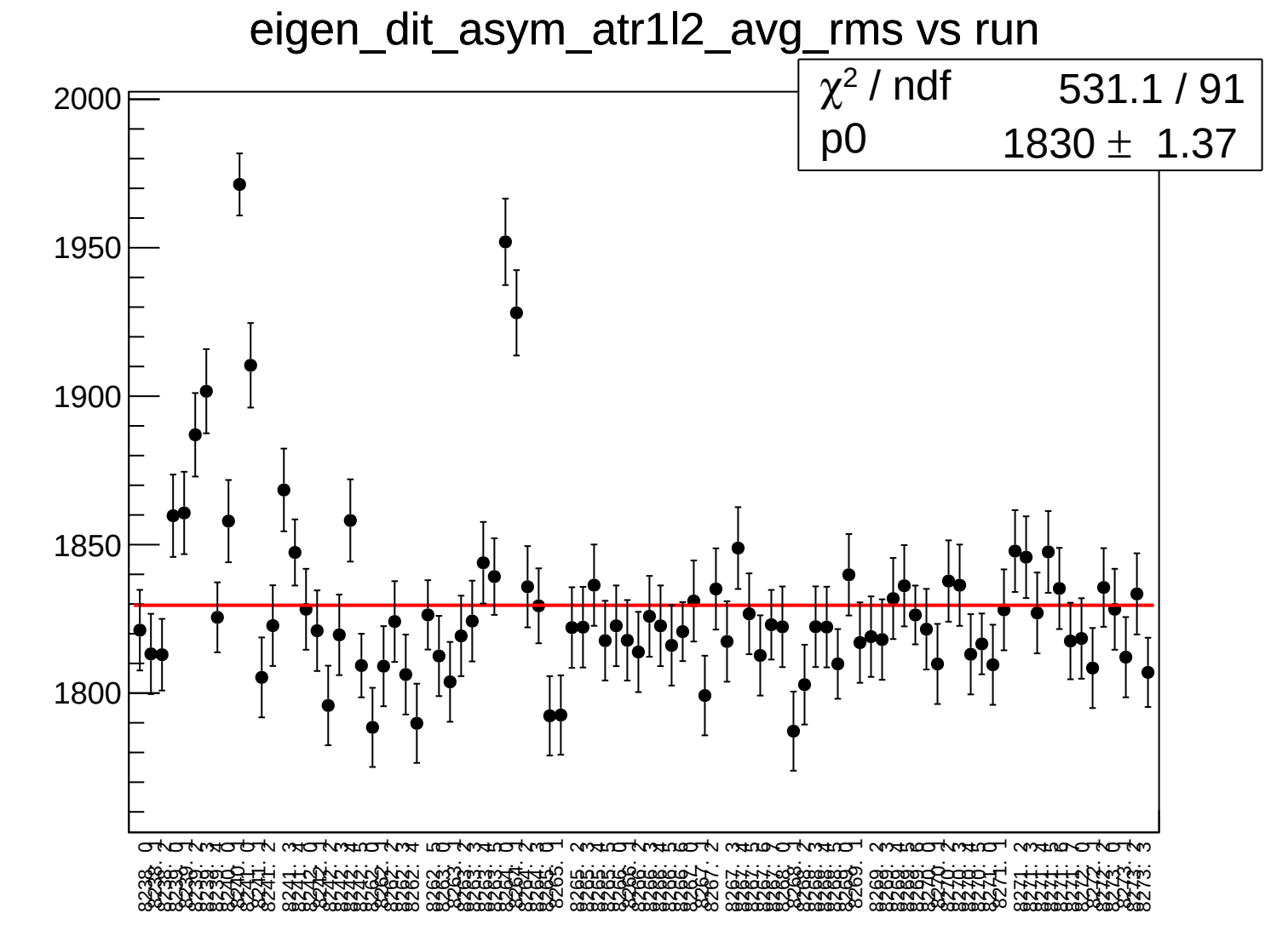

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 71.18 / 91
p0 1.034e+04 ± 6209
pull
Entries 92
Mean −439
Std Dev 0

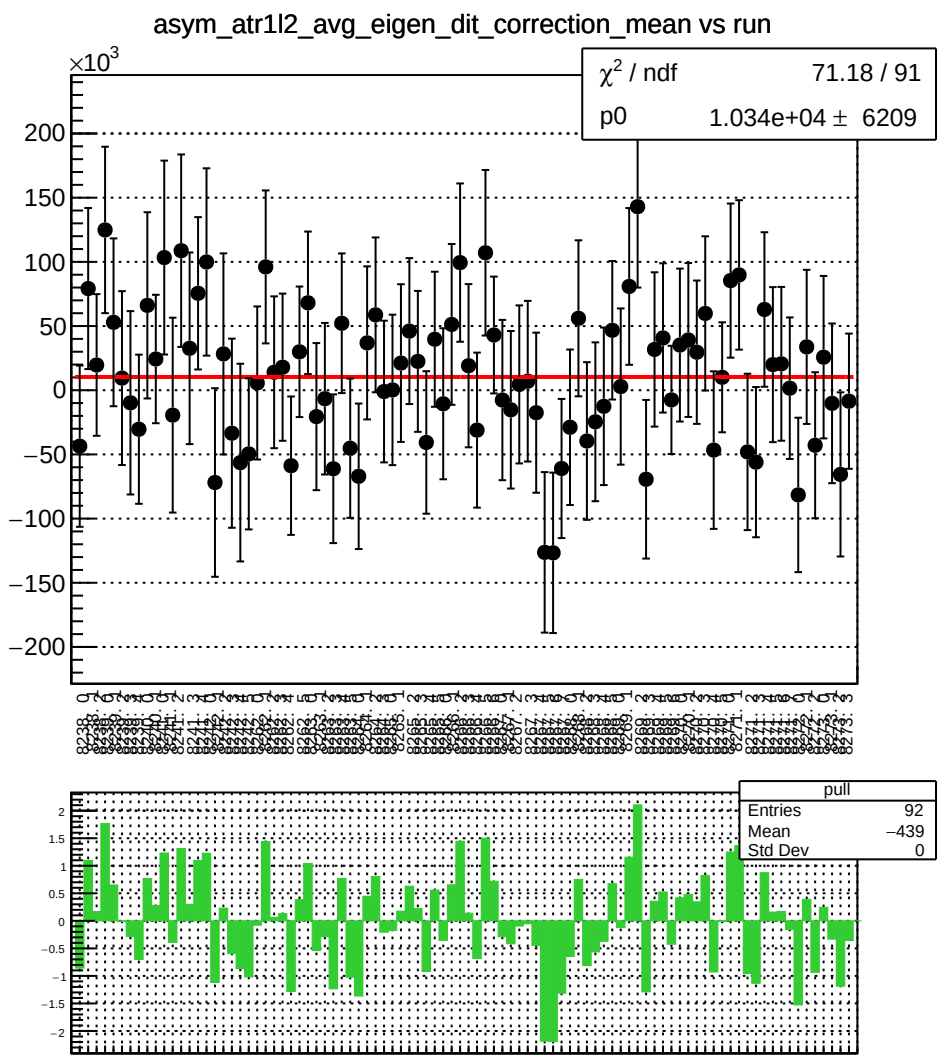

pull1D
Entries 92
Mean 0.006501
Std Dev 0.8796

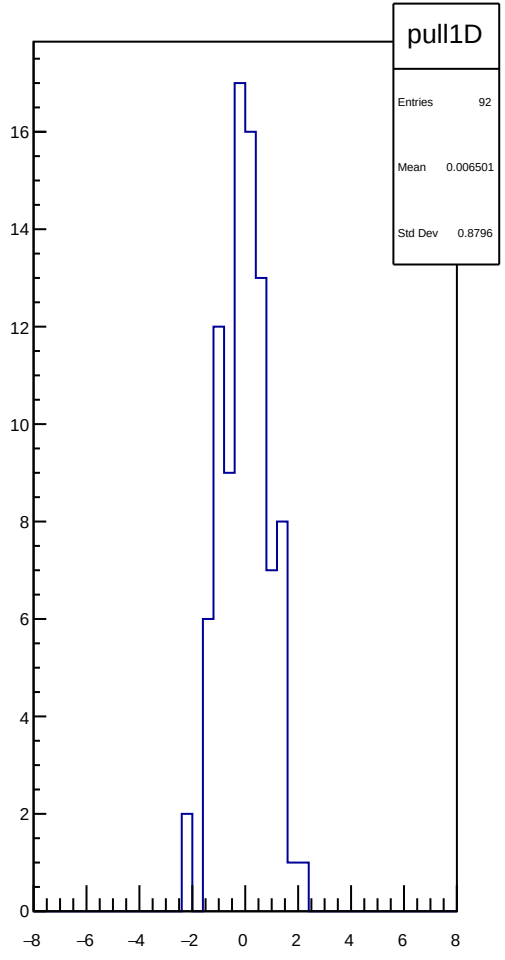

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 1.248e+04 / 91
p0 5842 ± 4.391
7500
7000
6500
6000
5500
5000

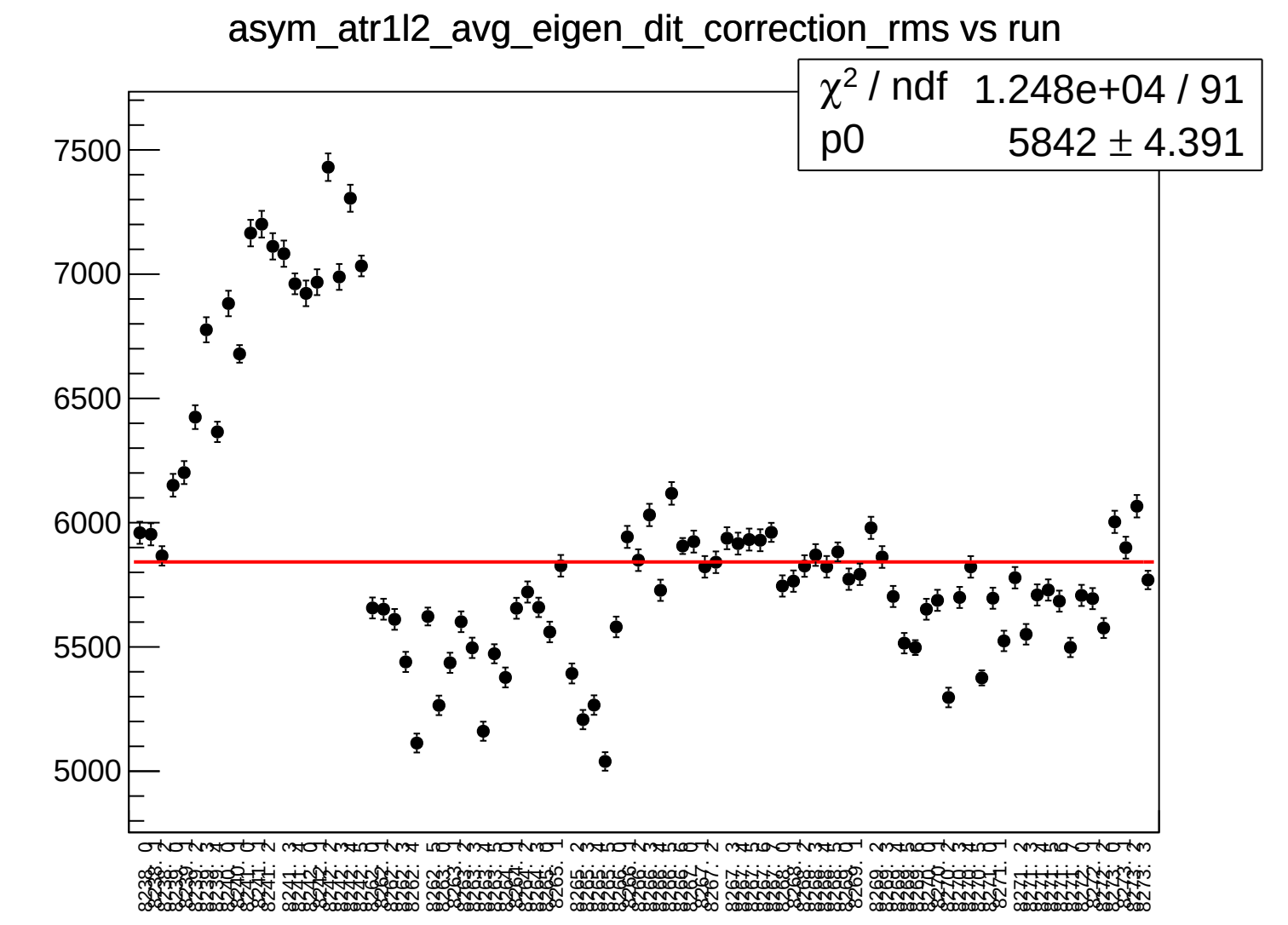

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 93.85 / 91
p0 1718 ± 1938
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 202.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

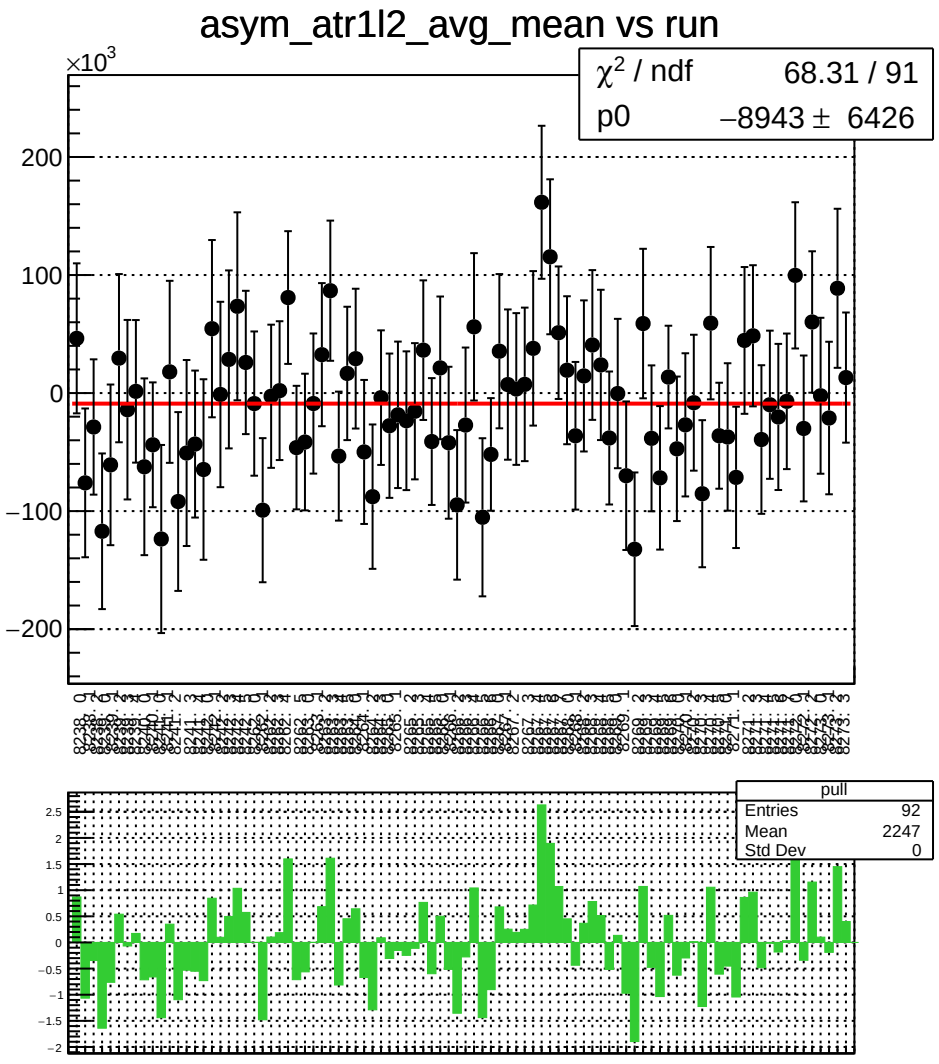

pull1D
Entries 92
Mean 0.01845
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

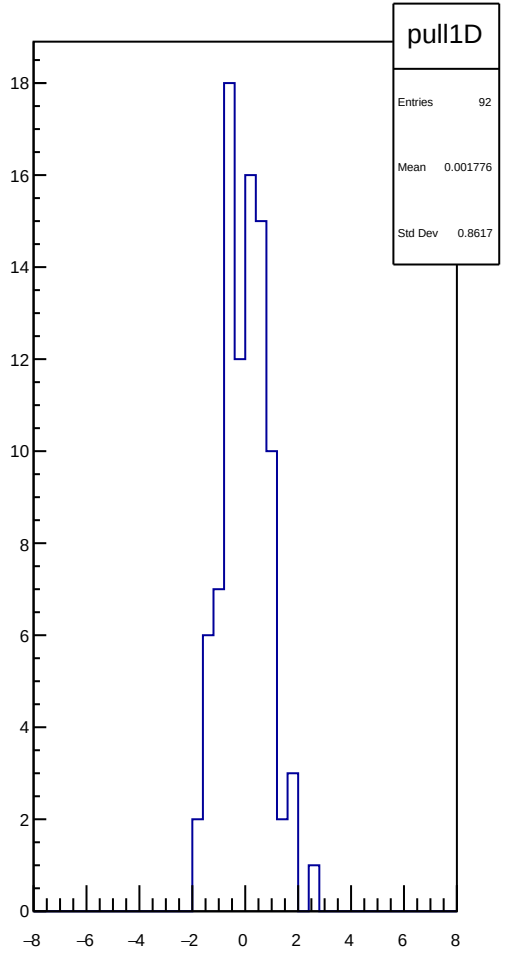

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 531.1 / 91
p0 1830 ± 1.37
2000
1950
1900
1850
1800

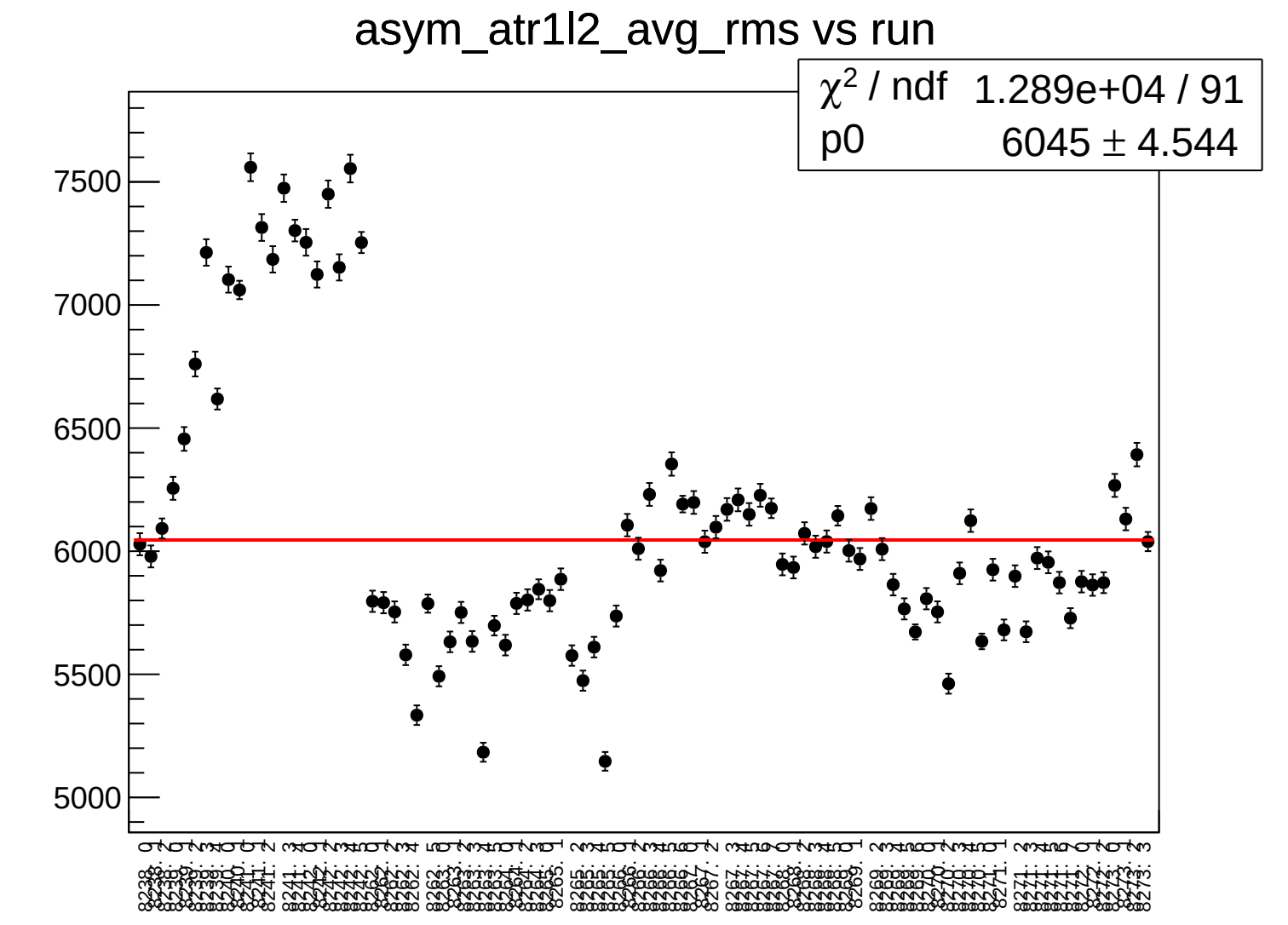

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 71.18 / 91
p0 1.034e+04 ± 6209
pull
Entries 92
Mean −439
Std Dev 0

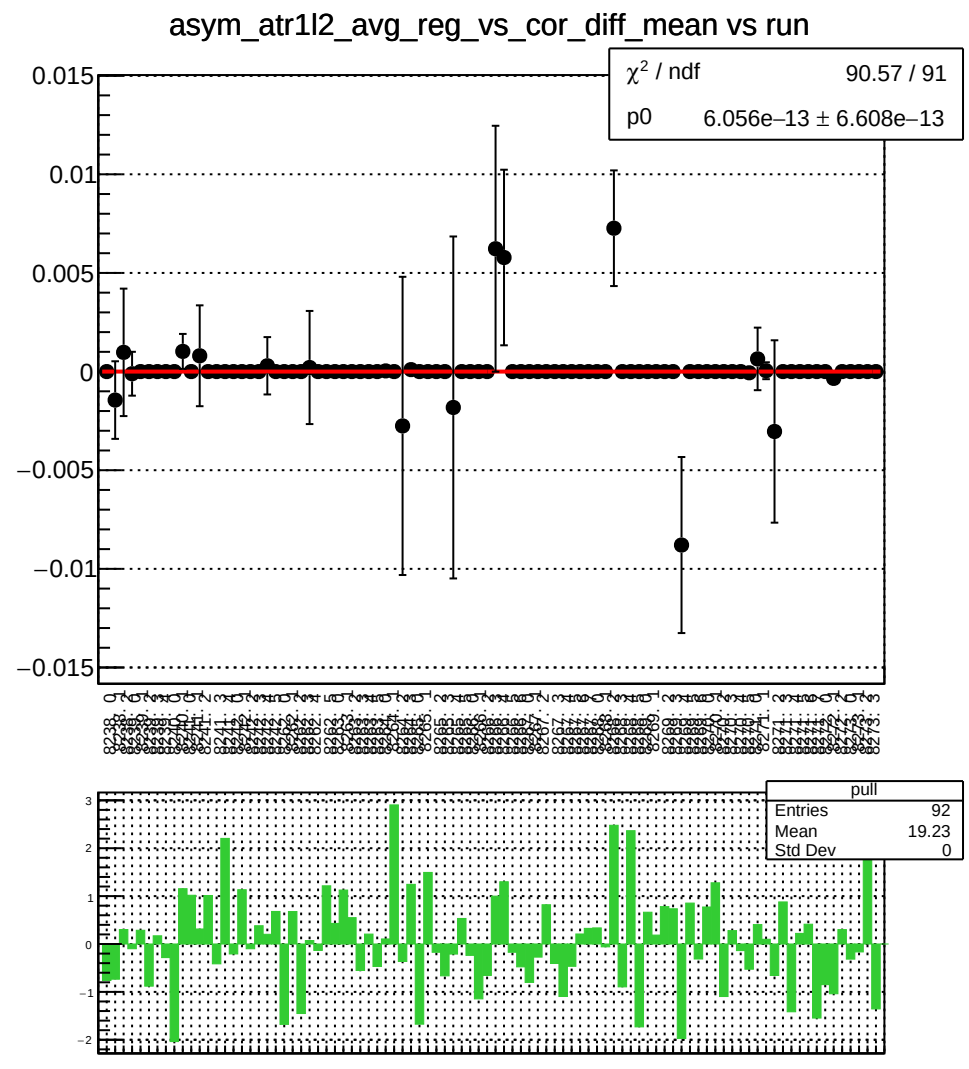

pull1D
Entries 92
Mean 0.006501
Std Dev 0.8796

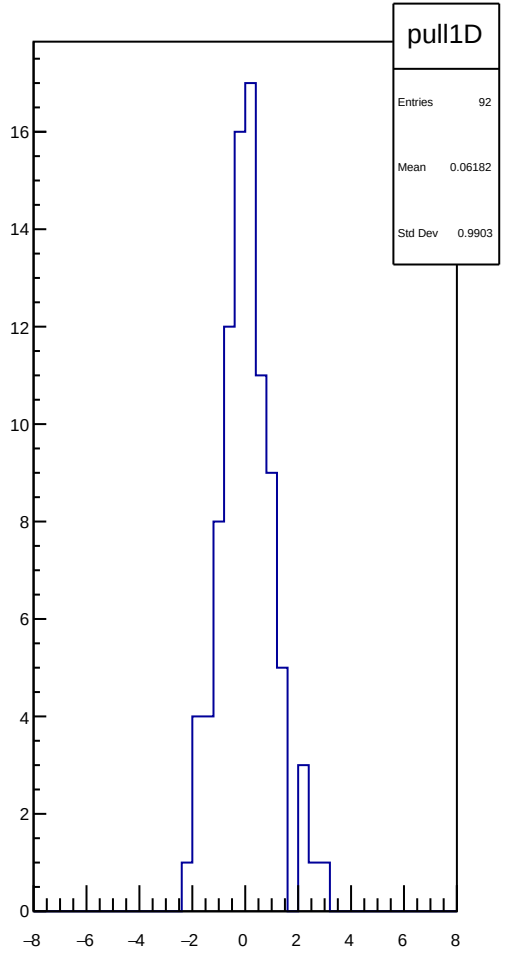

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.248e+04 / 91
p0 5842 ± 4.391
7500
7000
6500
6000
5500
5000

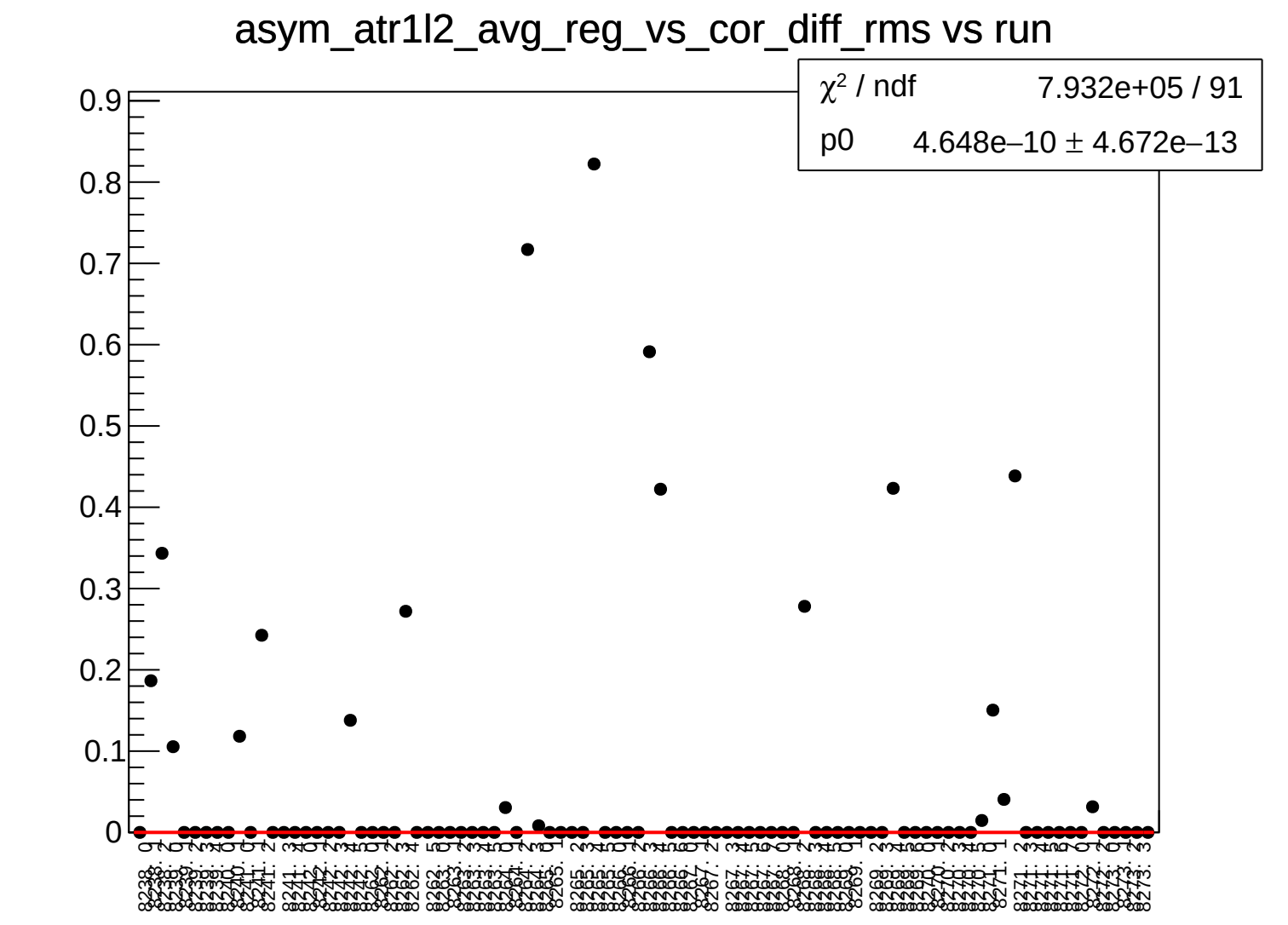

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 68.31 / 91
p0 −8943 ± 6426
200
100
0
−100
−200
pull
Entries 92
Mean 2247
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

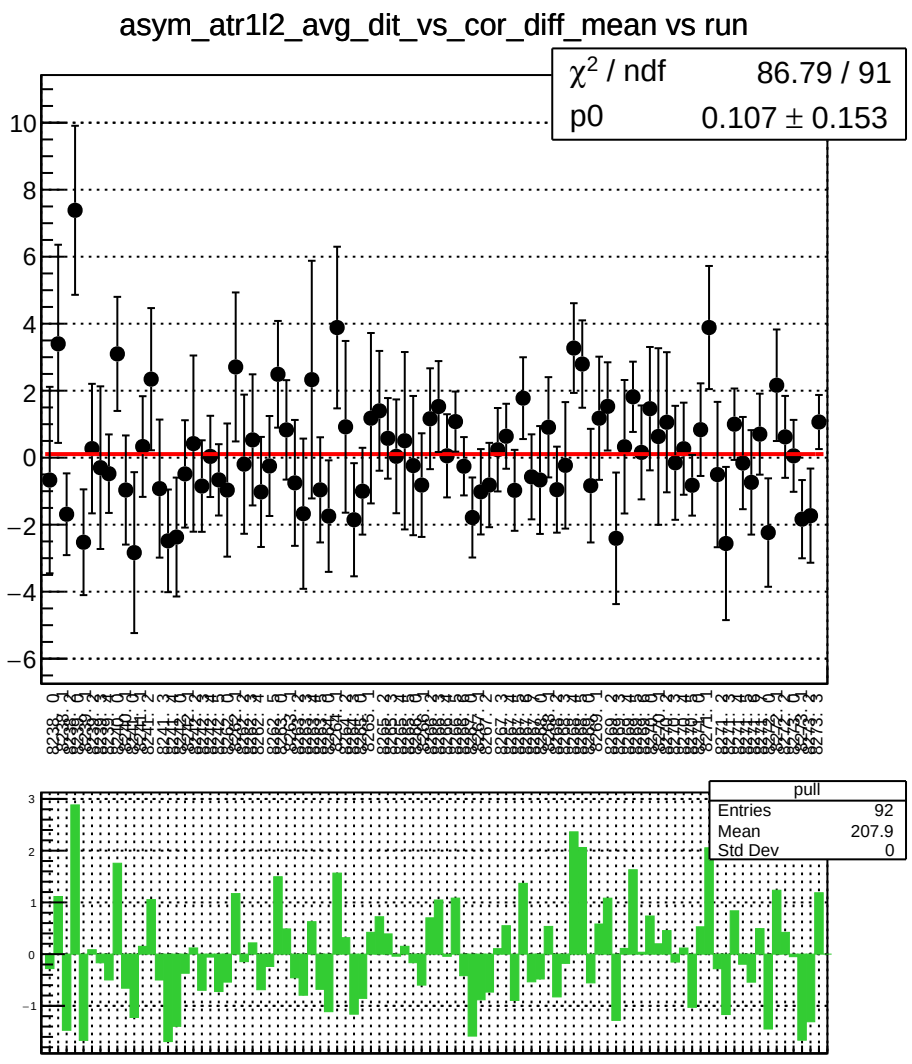

pull1D
Entries 92
Mean 0.001776
Std Dev 0.8617
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

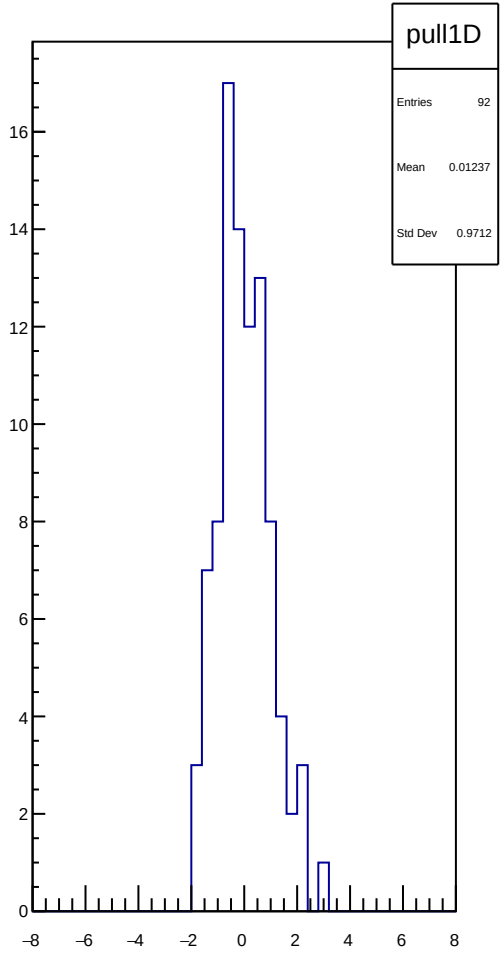

asym_atr1l2_avg_rms vs run
$\chi^2$ / ndf 1.289e+04 / 91
p0 6045 ± 4.544
7500
7000
6500
6000
5500
5000

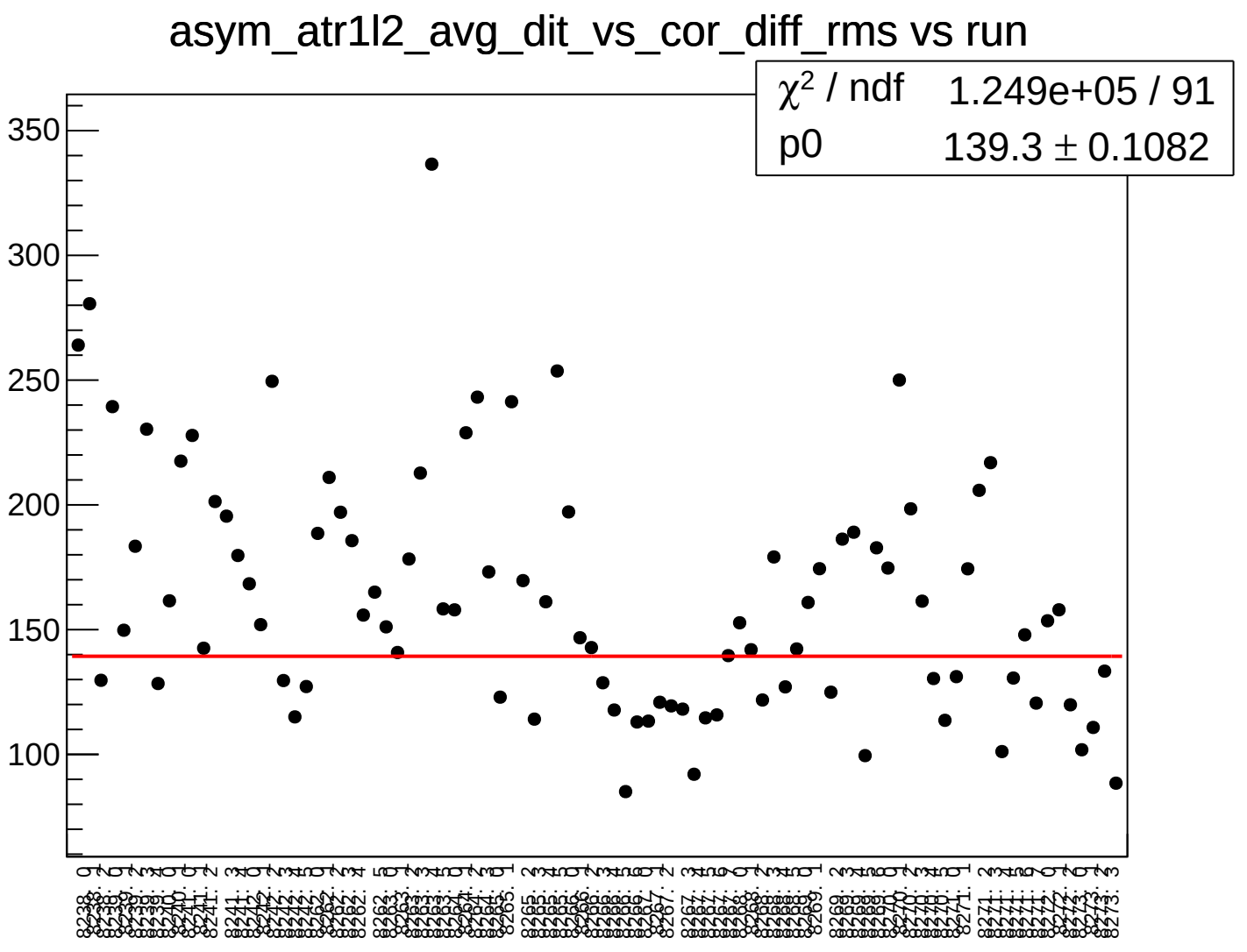

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.57 / 91
p0 6.056e−13 ± 6.608e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean 19.23
Std Dev 0
3
2
1
0
−1
−2

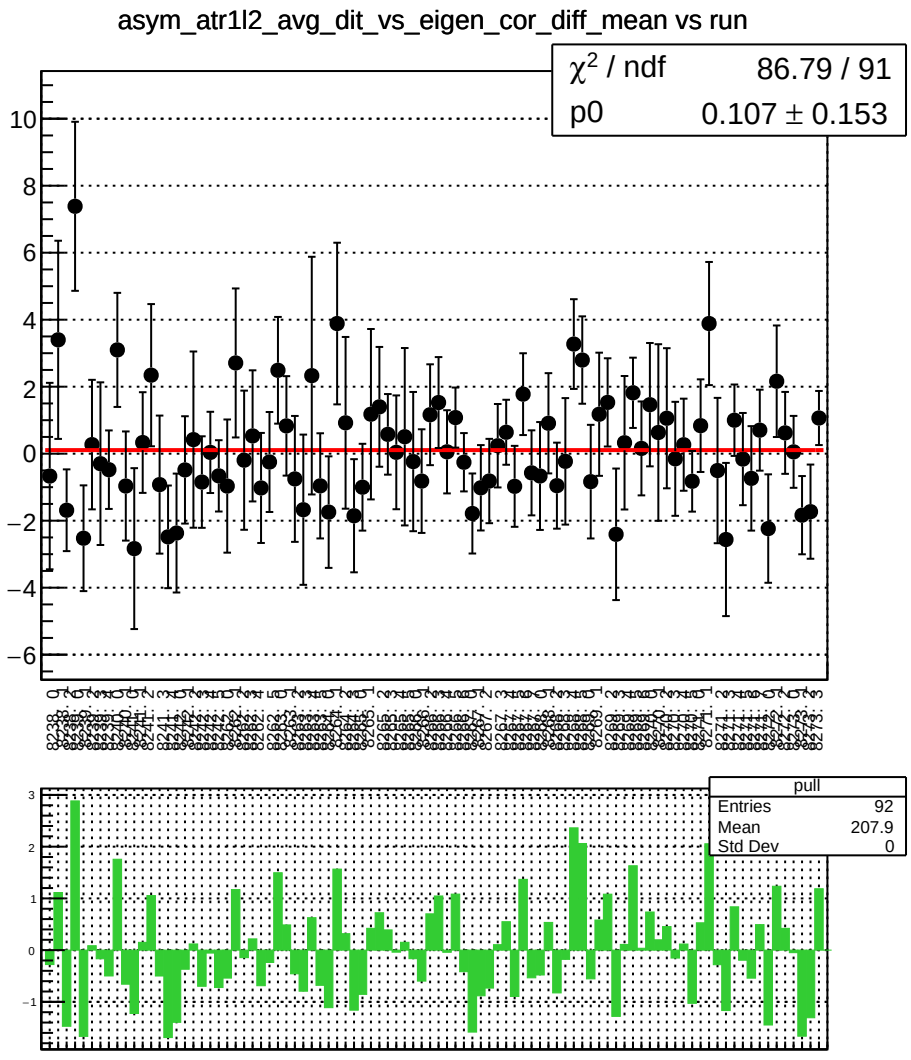

pull1D
Entries 92
Mean 0.06182
Std Dev 0.9903
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

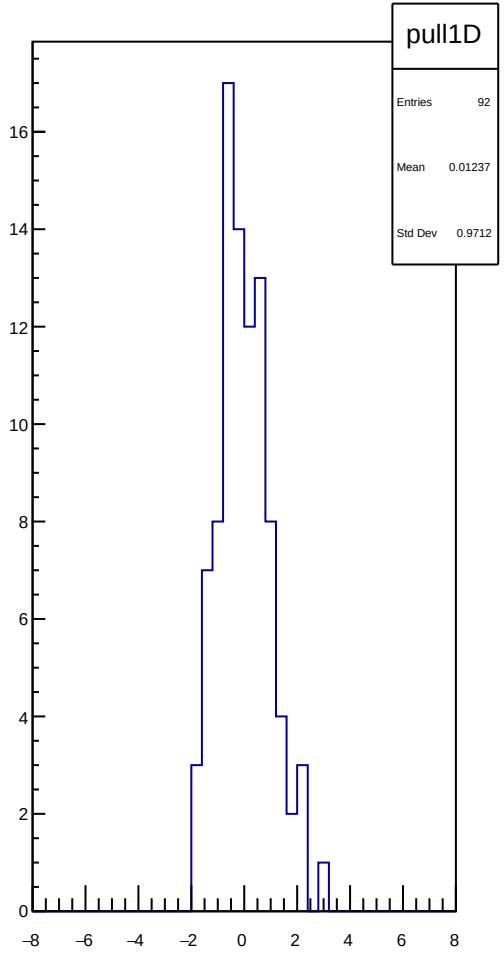

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.932e+05 / 91
p0 4.648e−10 ± 4.672e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

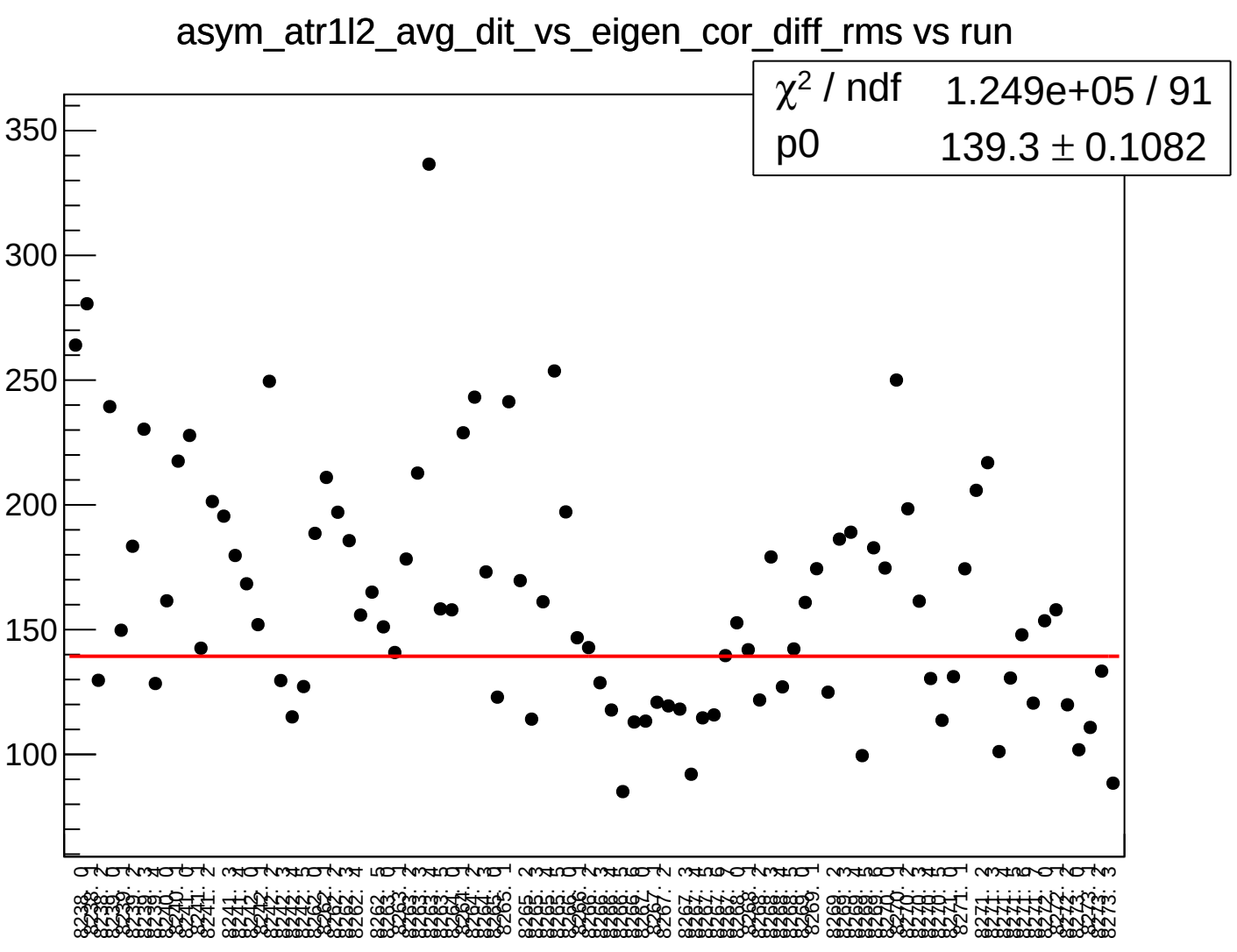

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.79 / 91
p0 0.107 ± 0.153
pull
Entries 92
Mean 207.9
Std Dev 0

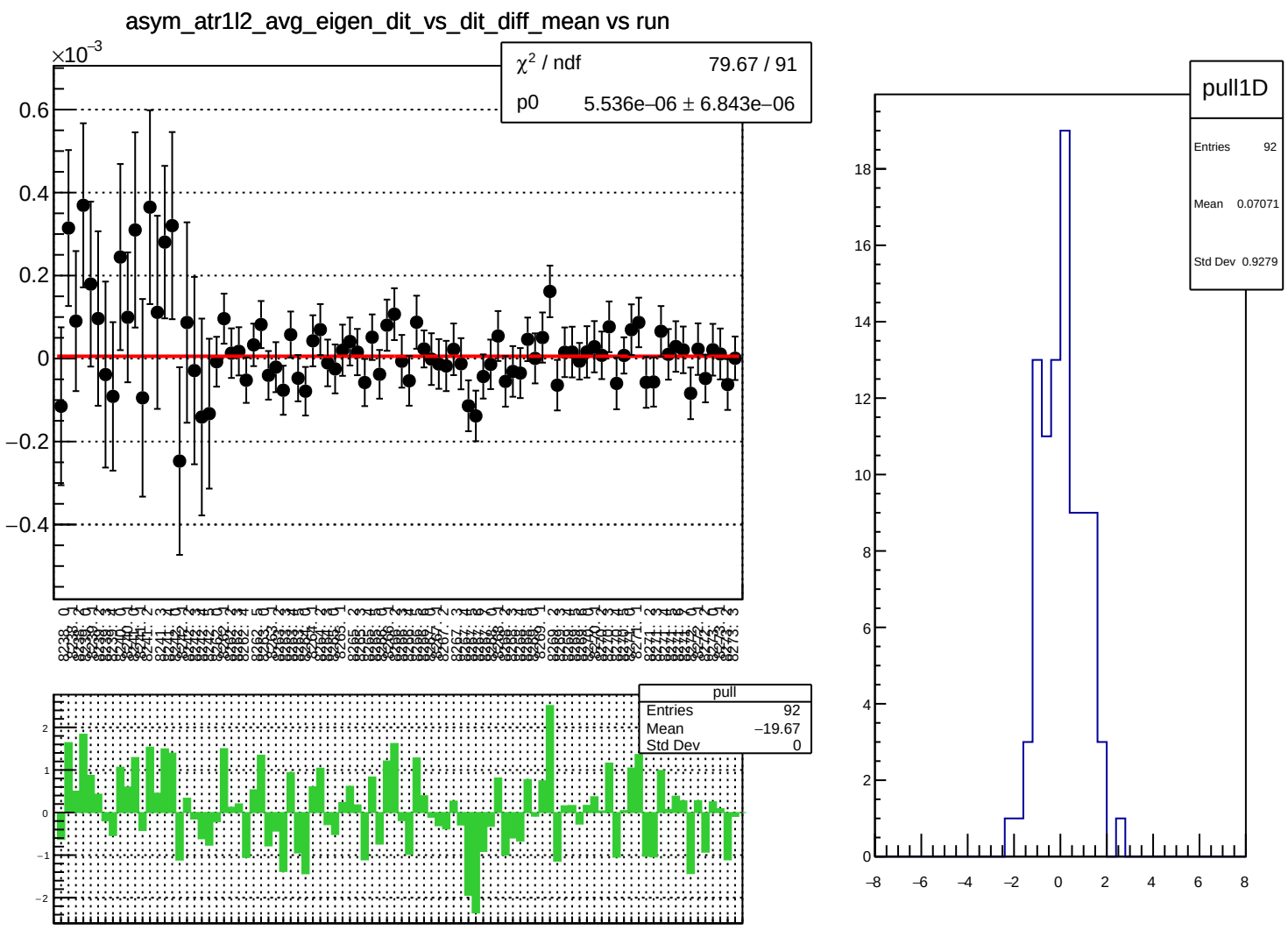

pull1D
Entries 92
Mean 0.01237
Std Dev 0.9712

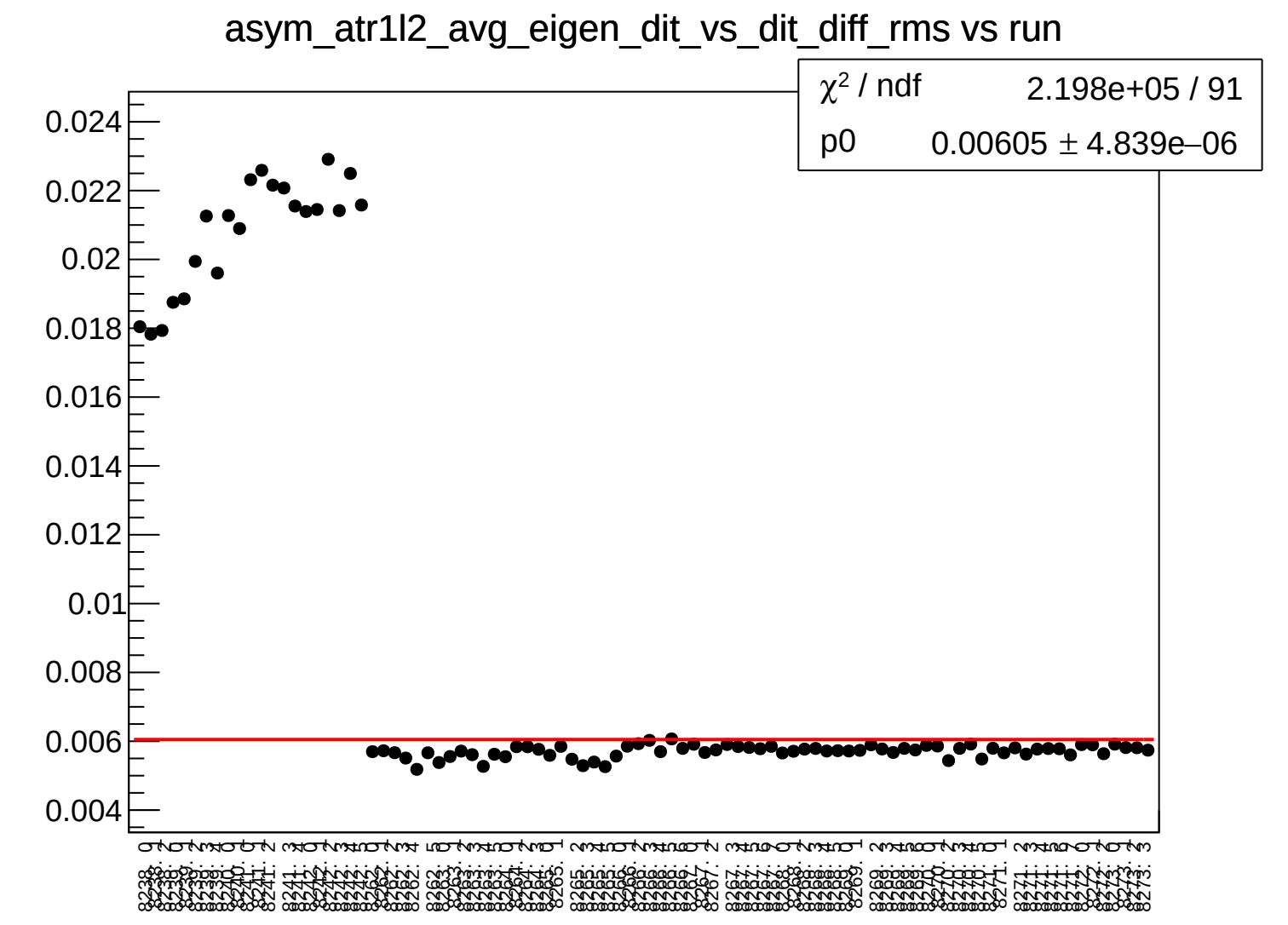

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.249e+05 / 91
p0 139.3 ± 0.1082
350
300
250
200
150
100

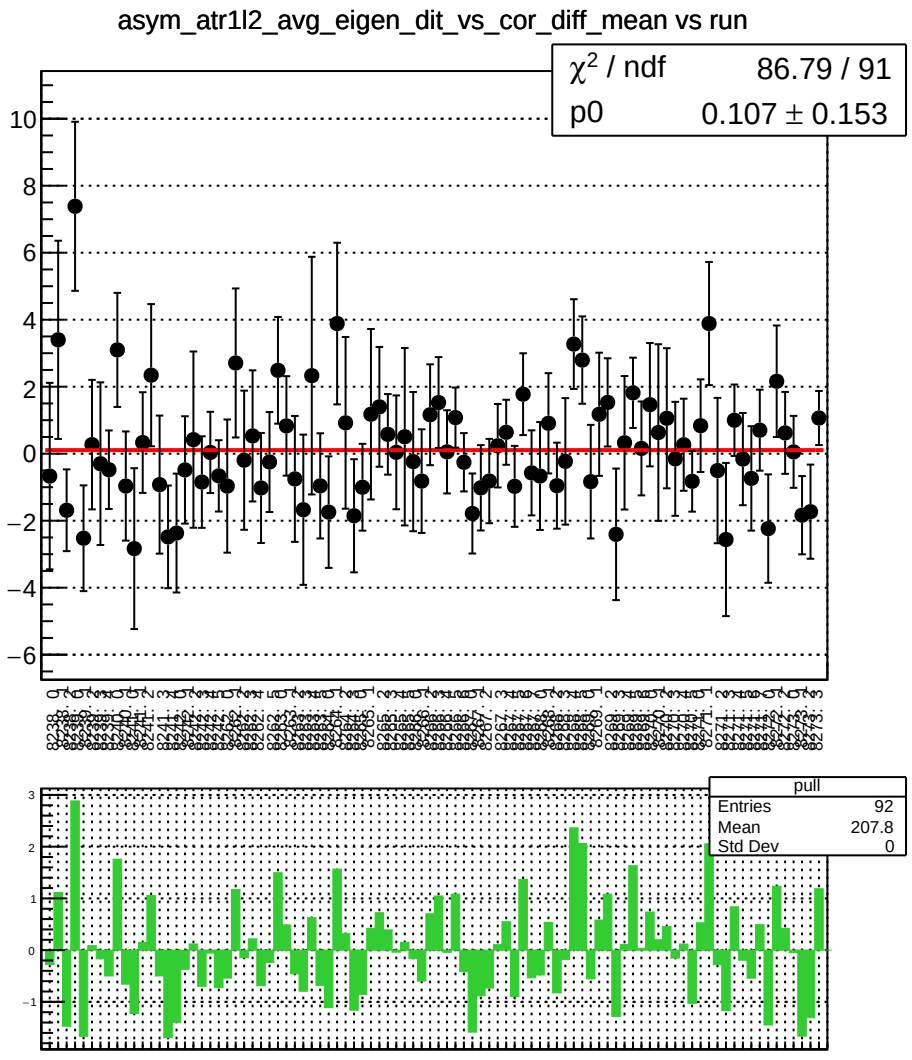

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.79 / 91
p0 0.107 ± 0.153
pull
Entries 92
Mean 207.9
Std Dev 0

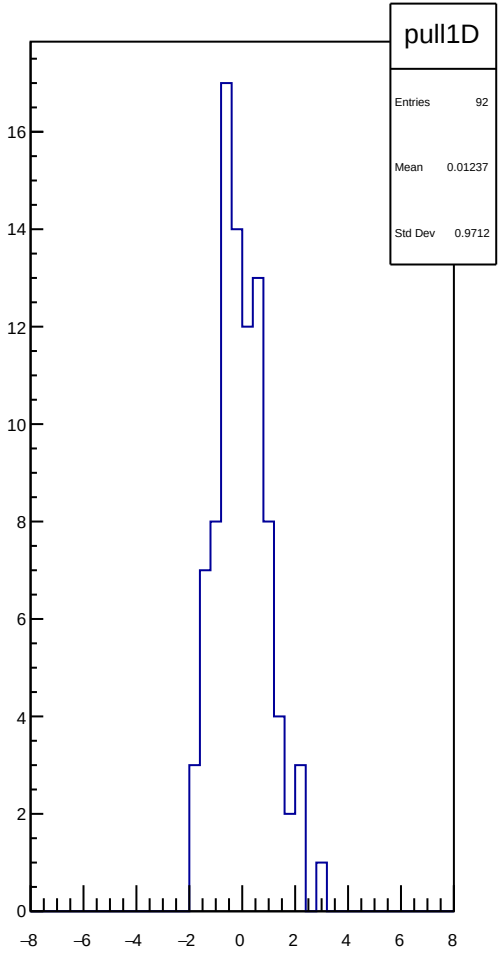

pull1D
Entries 92
Mean 0.01237
Std Dev 0.9712

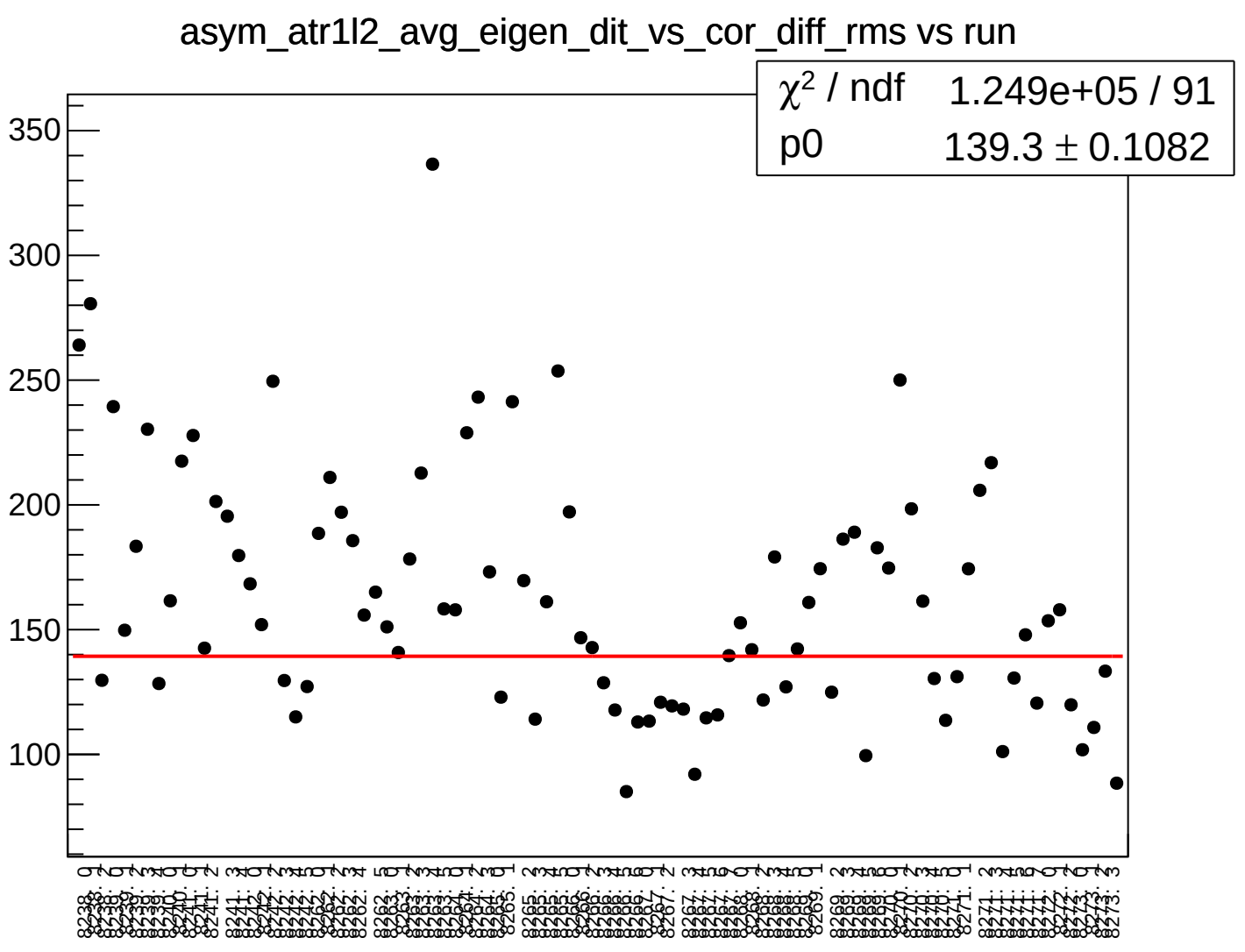

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.249e+05 / 91
p0 139.3 ± 0.1082
350
300
250
200
150
100

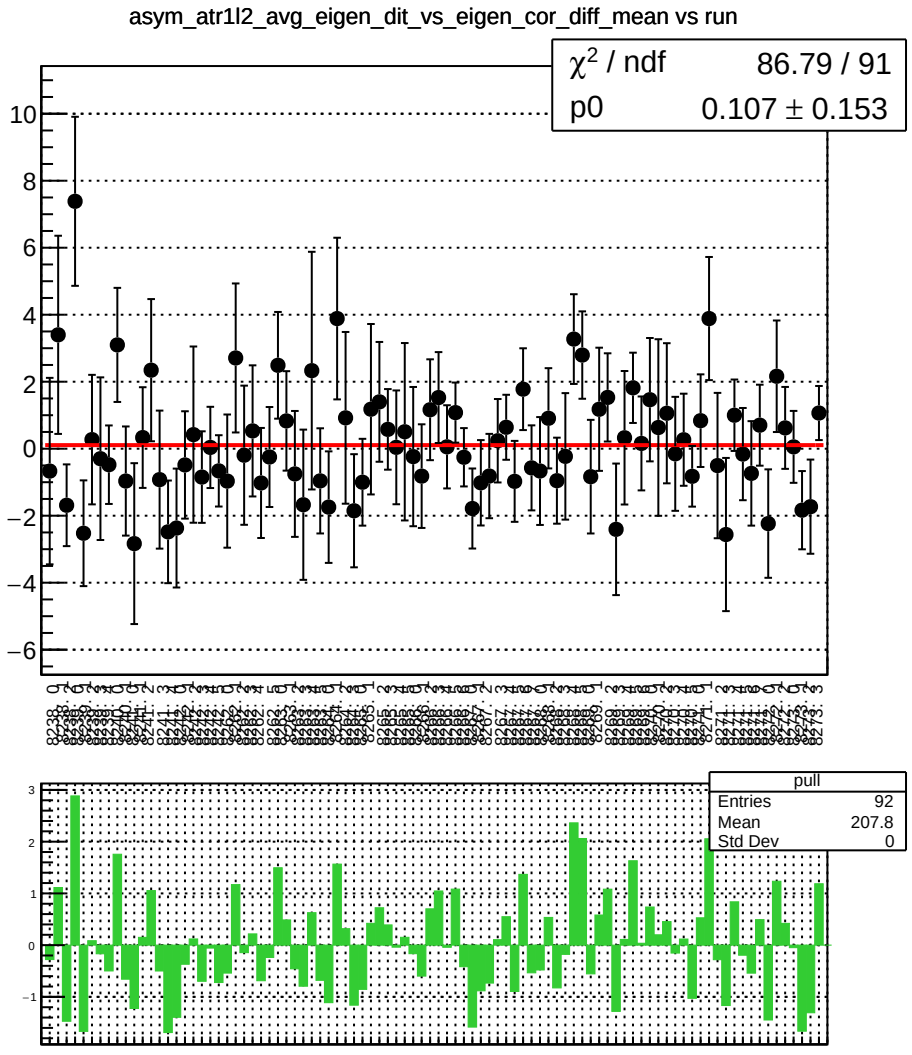

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.67 / 91
p0 5.536e−06 ± 6.843e−06
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean −19.67
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.07071
Std Dev 0.9279
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

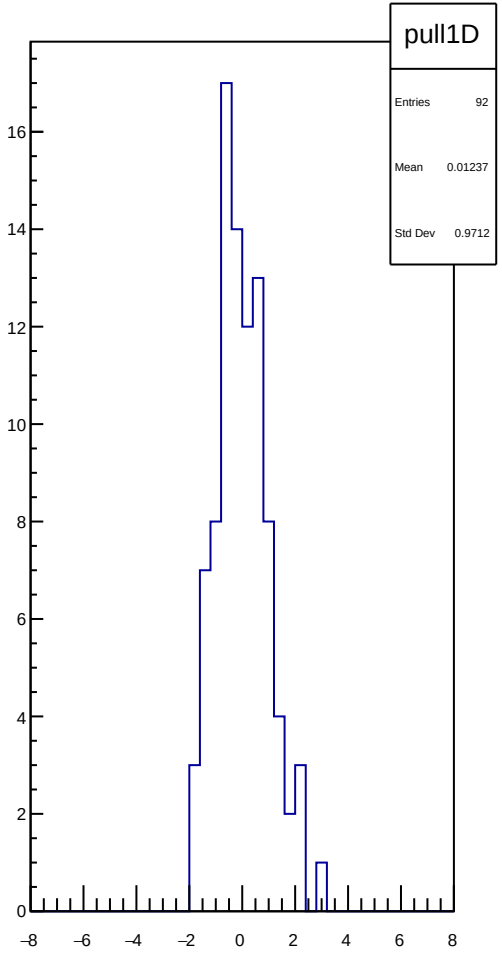

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.198e+05 / 91
p0 0.00605 ± 4.839e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

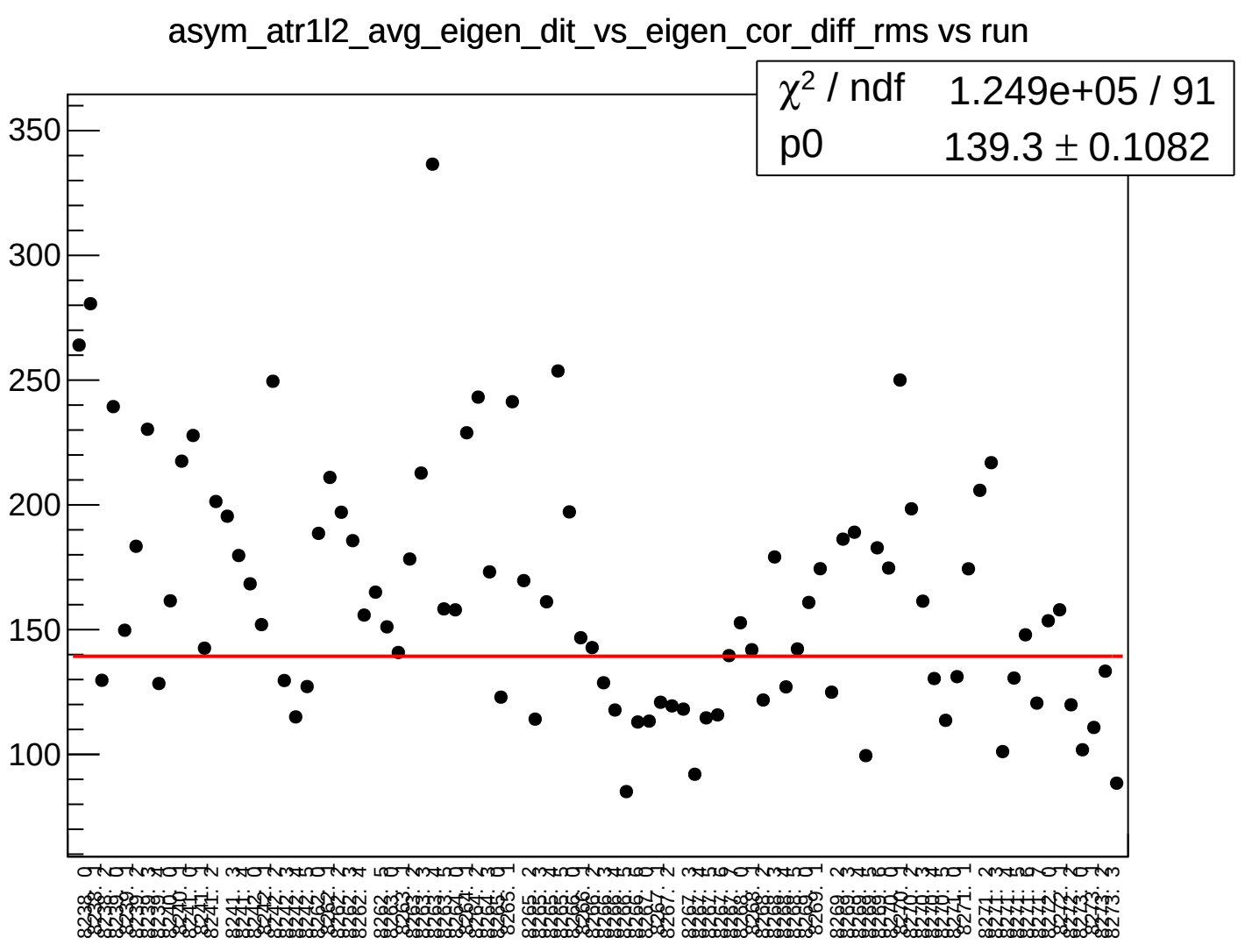

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.79 / 91
p0 0.107 ± 0.153
pull
Entries 92
Mean 207.8
Std Dev 0

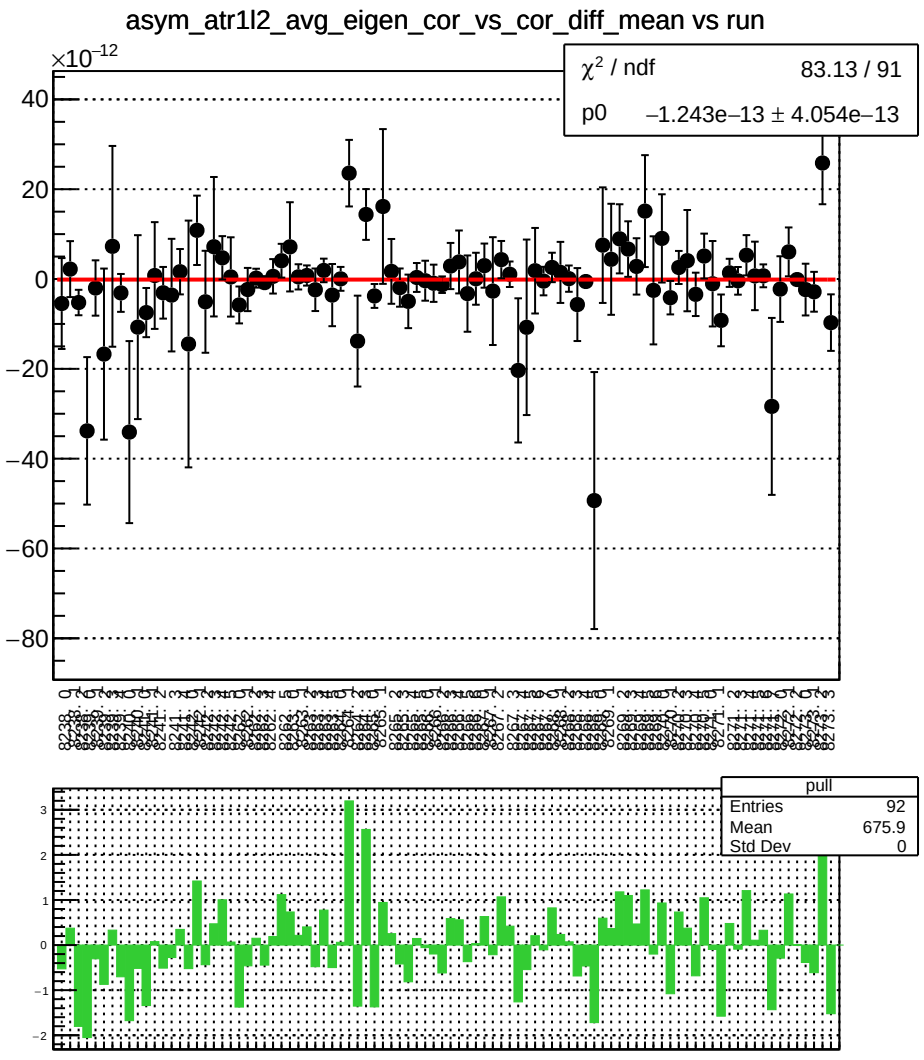

pull1D
Entries 92
Mean 0.01237
Std Dev 0.9712

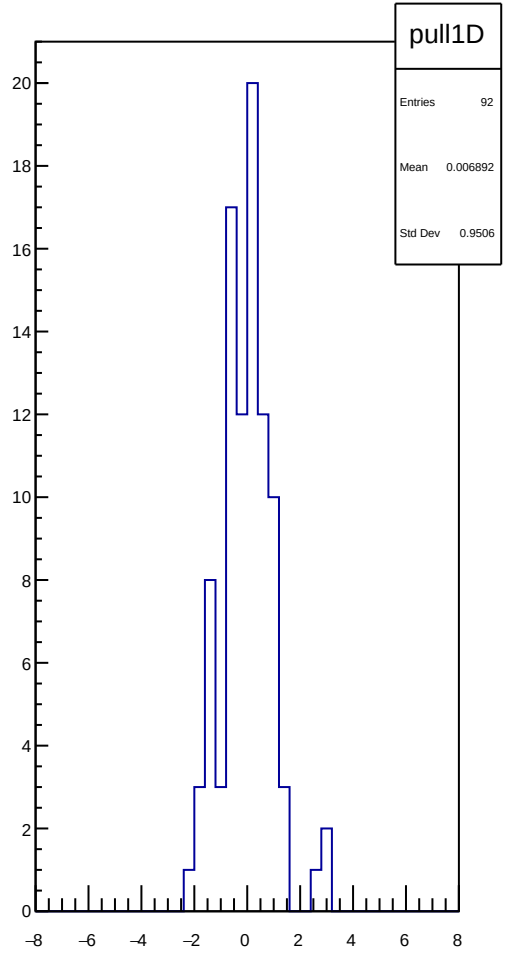

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.249e+05 / 91
p0 139.3 ± 0.1082
350
300
250
200
150
100

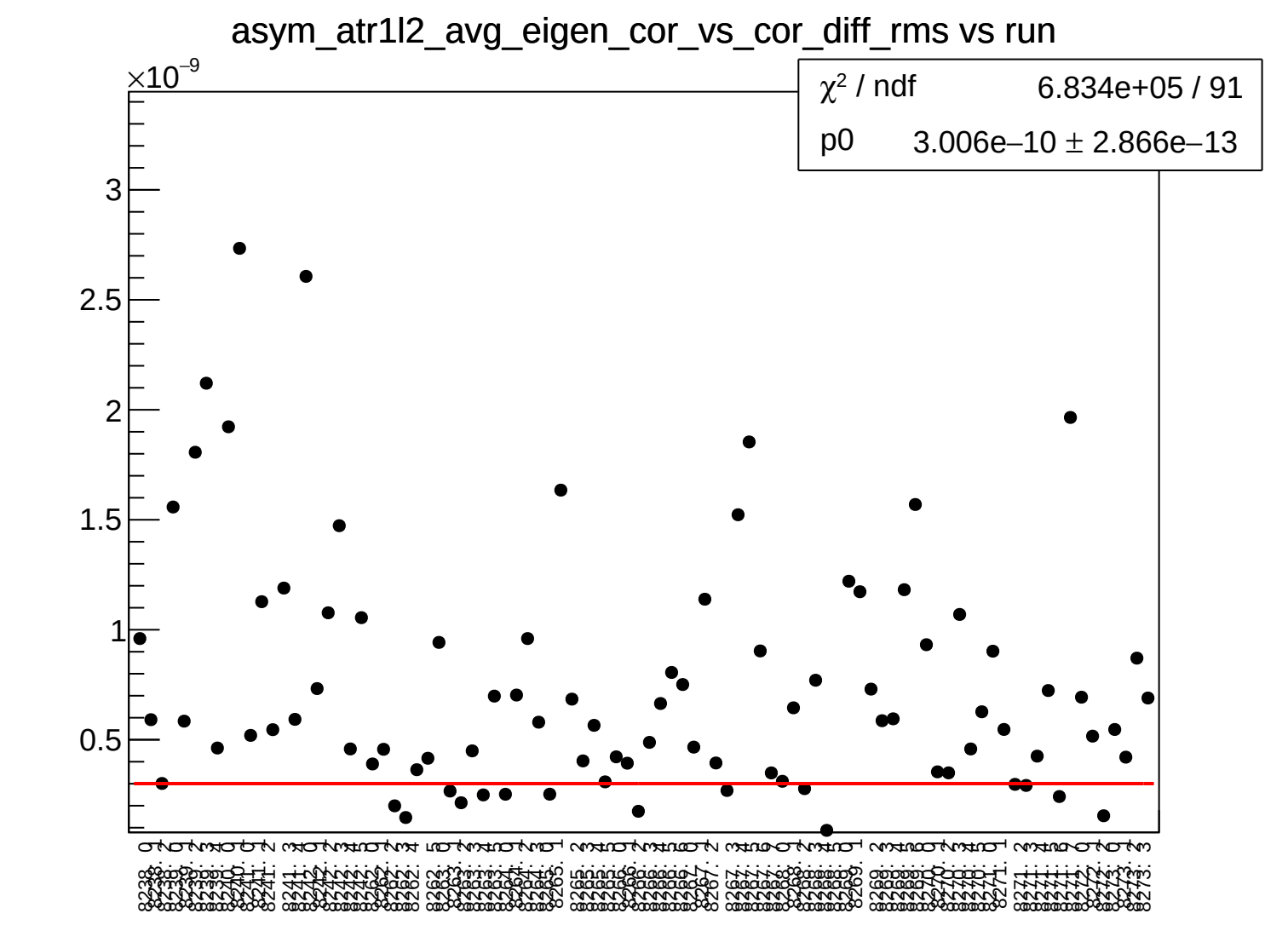

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.79 / 91
p0 0.107 ± 0.153
pull
Entries 92
Mean 207.8
Std Dev 0

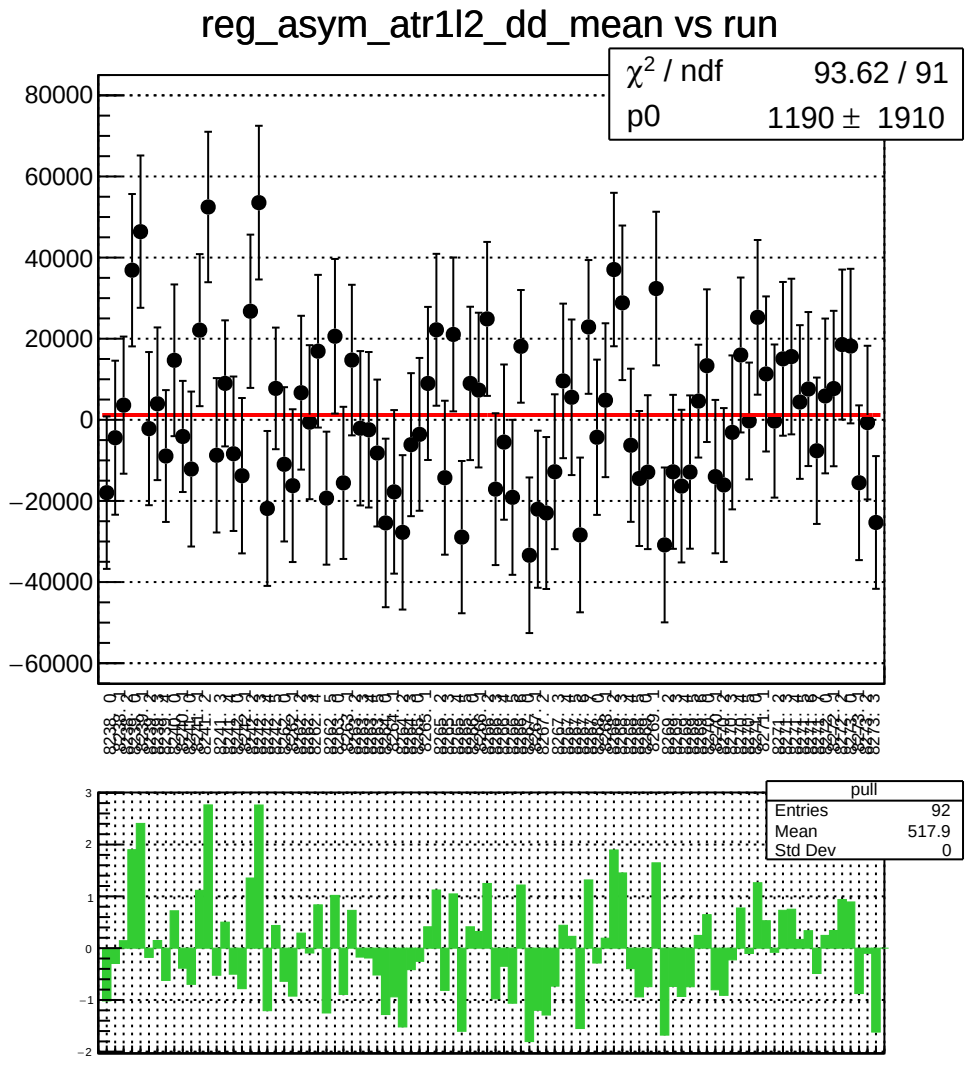

pull1D
Entries 92
Mean 0.01237
Std Dev 0.9712

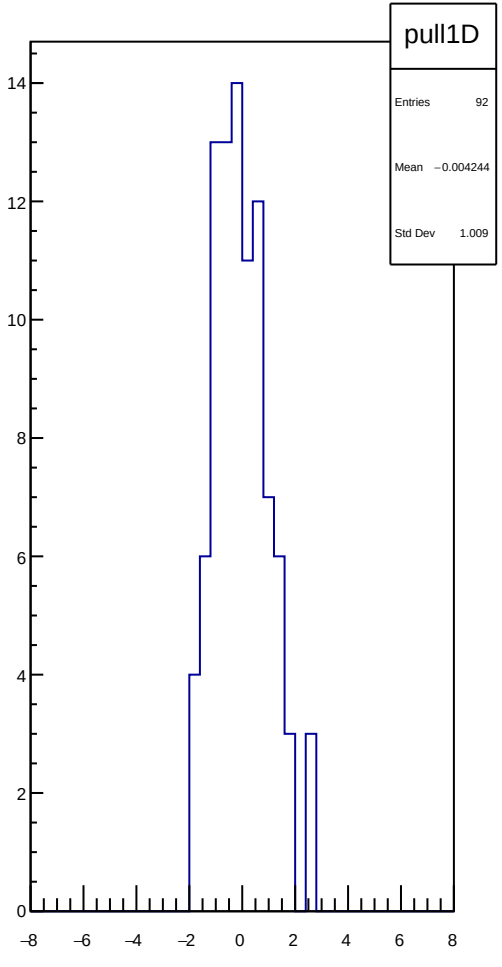

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.249e+05 / 91
p0 139.3 ± 0.1082
350
300
250
200
150
100

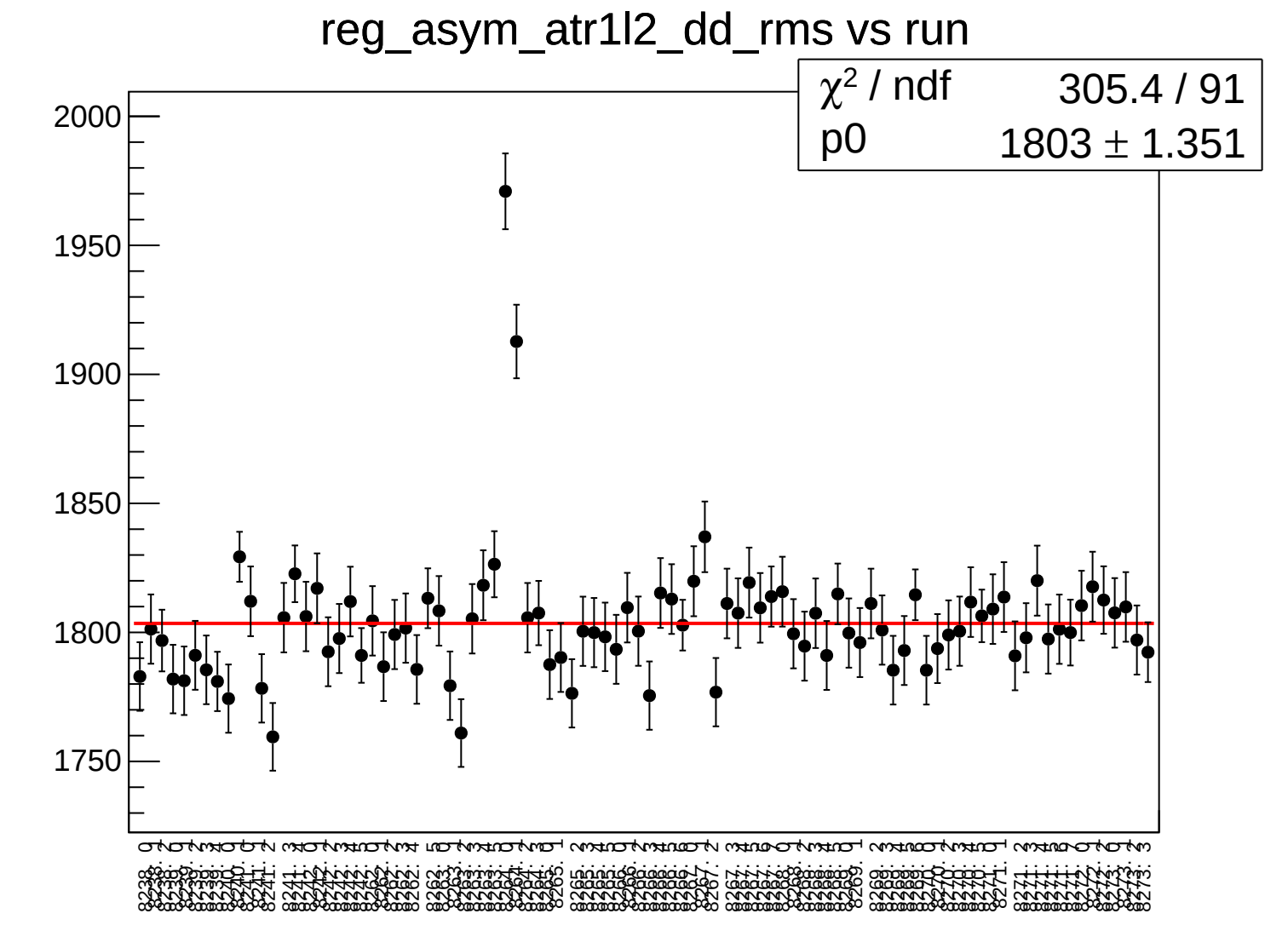

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 83.13 / 91
p0 −1.243e−13 ± 4.054e−13
pull
Entries 92
Mean 675.9
Std Dev 0

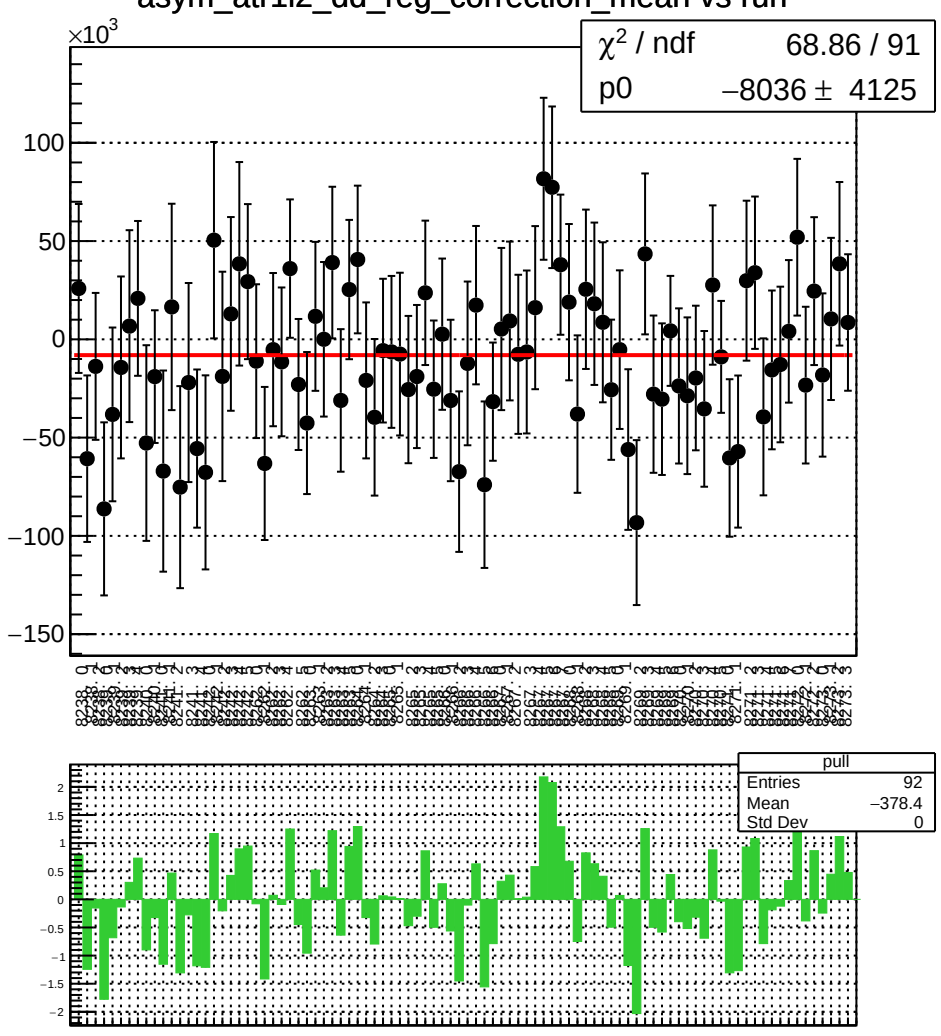

pull1D
Entries 92
Mean 0.006892
Std Dev 0.9506

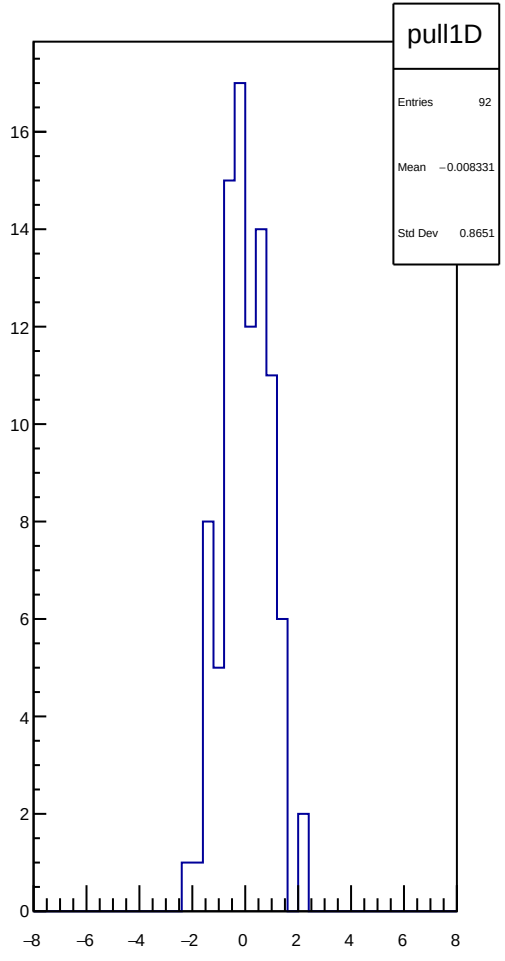

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.834e+05 / 91
p0 3.006e−10 ± 2.866e−13
3
2.5
2
1.5
1
0.5

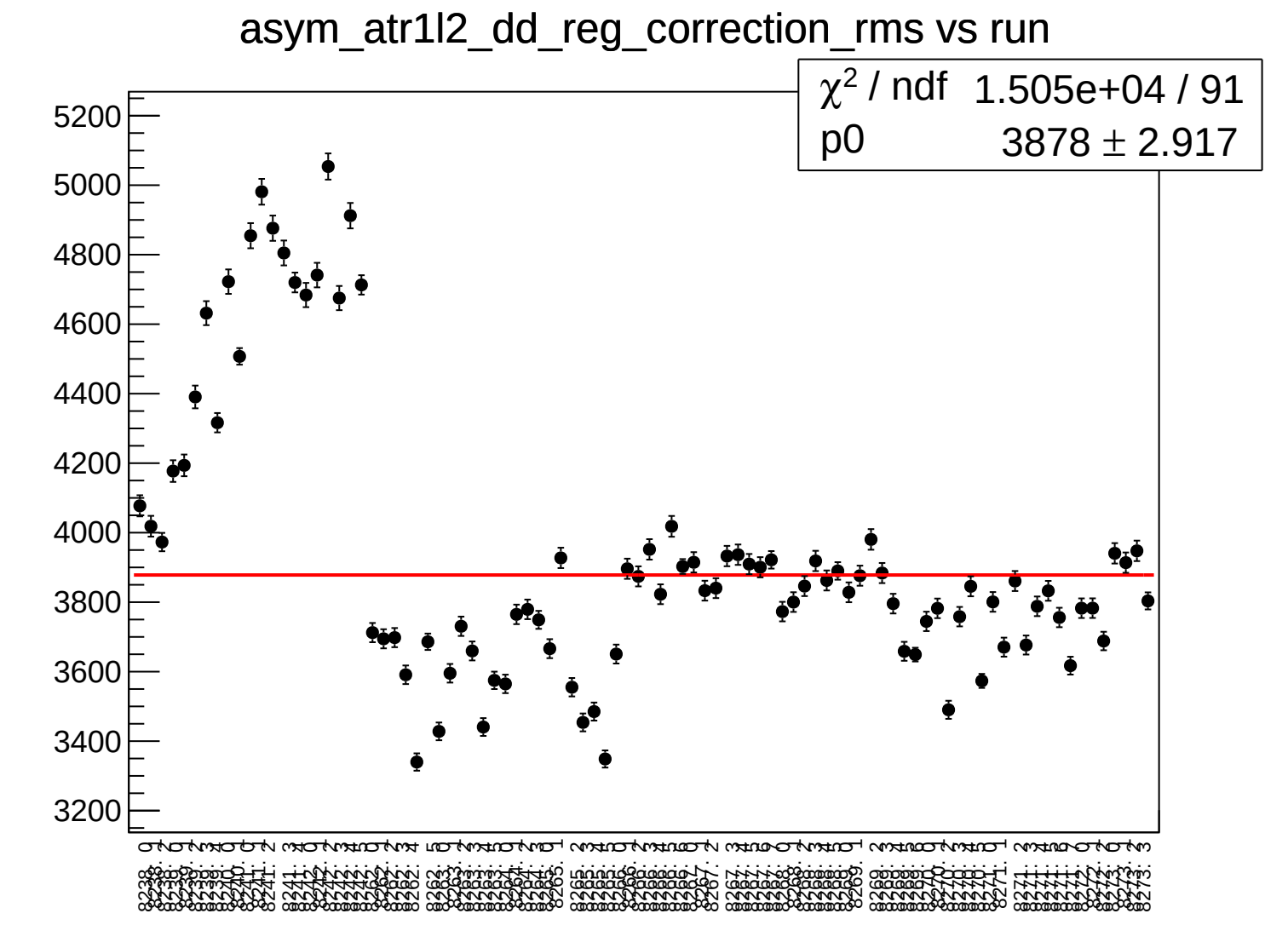

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 93.62 / 91
p0 1190 ± 1910
pull
Entries 92
Mean 517.9
Std Dev 0

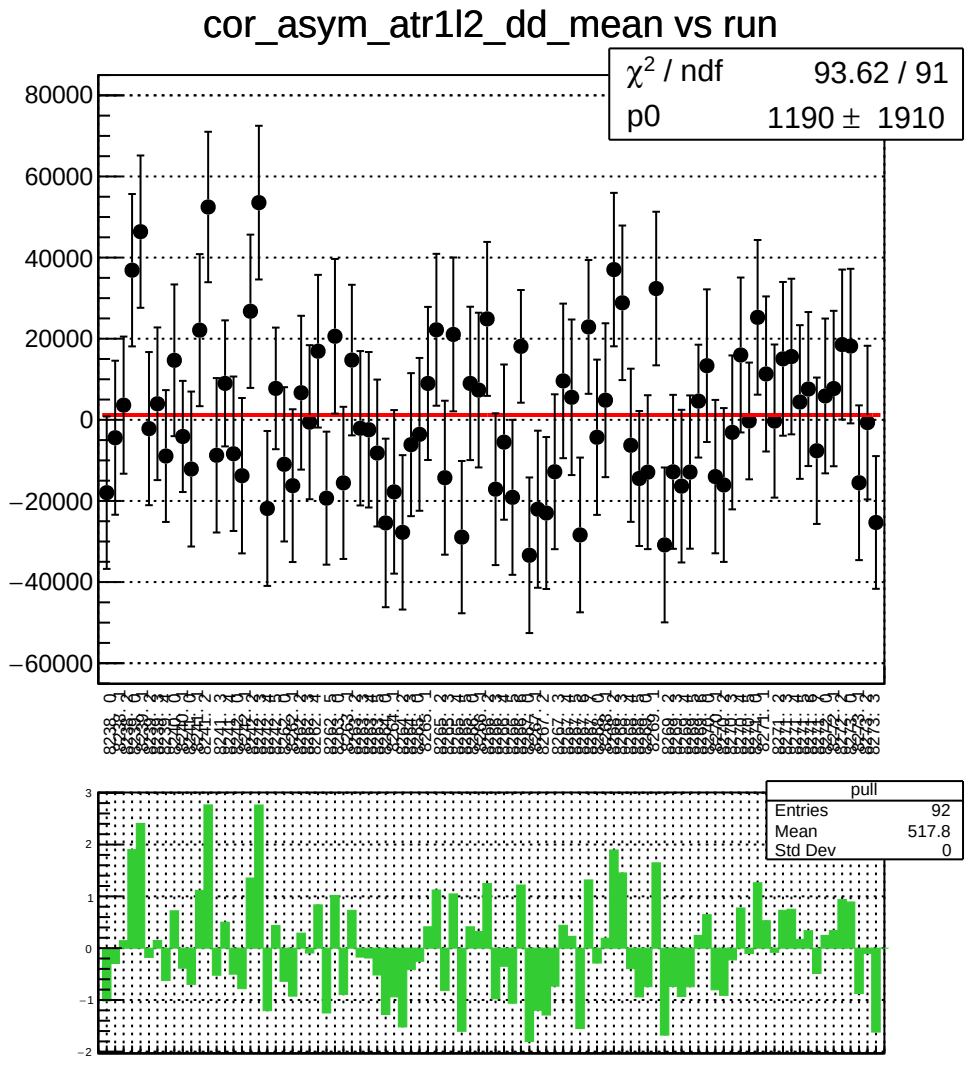

pull1D
Entries 92
Mean −0.004244
Std Dev 1.009

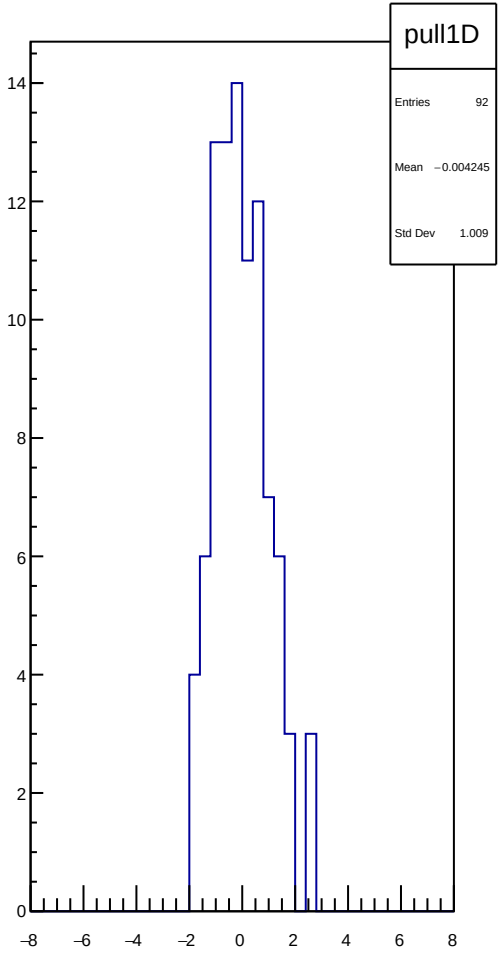

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 305.4 / 91
p0 1803 ± 1.351
2000
1950
1900
1850
1800
1750

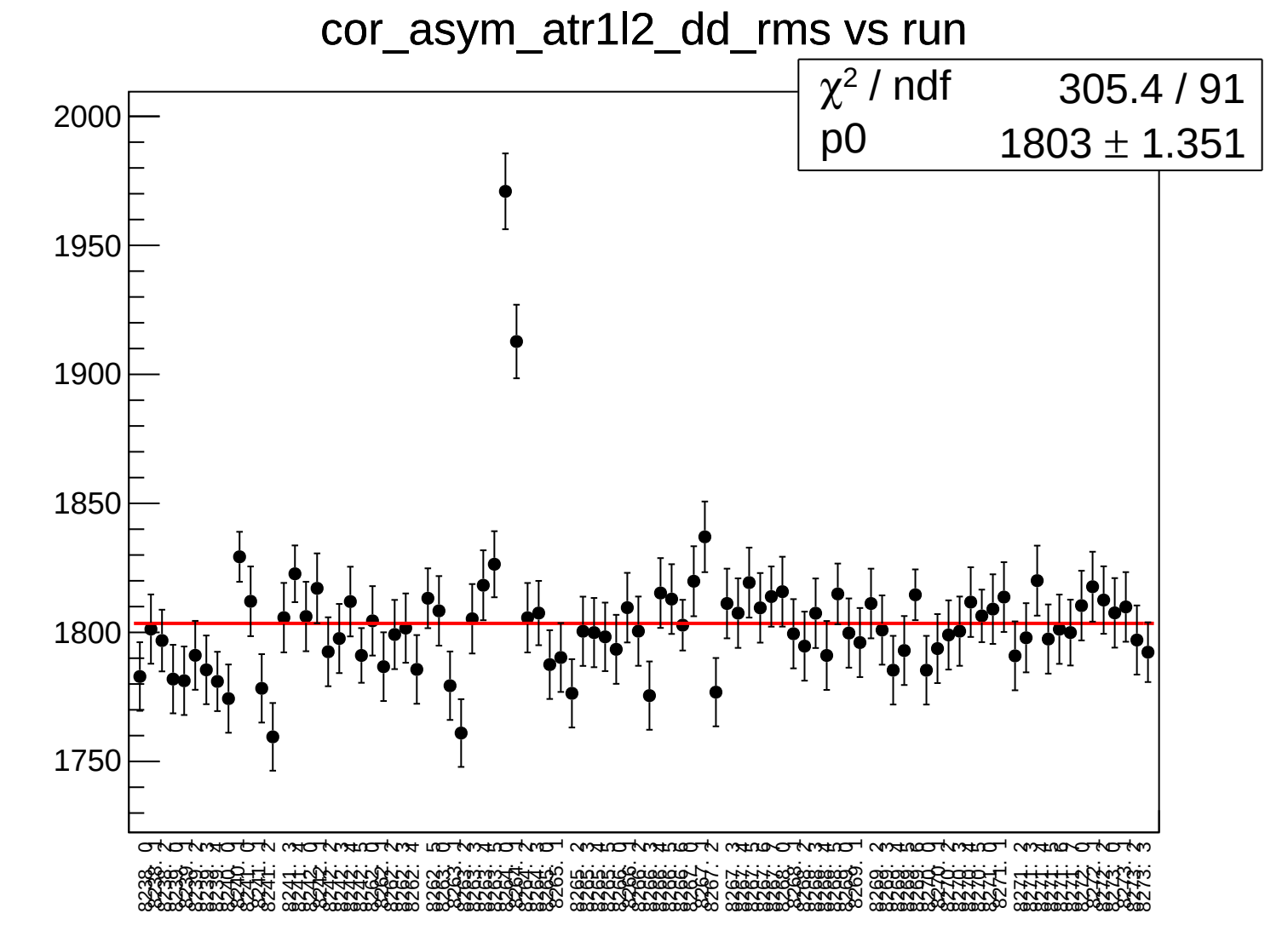

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 68.86 / 91
p0 −8036 ± 4125
100
50
0
−50
−100
−150
pull
Entries 92
Mean −378.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

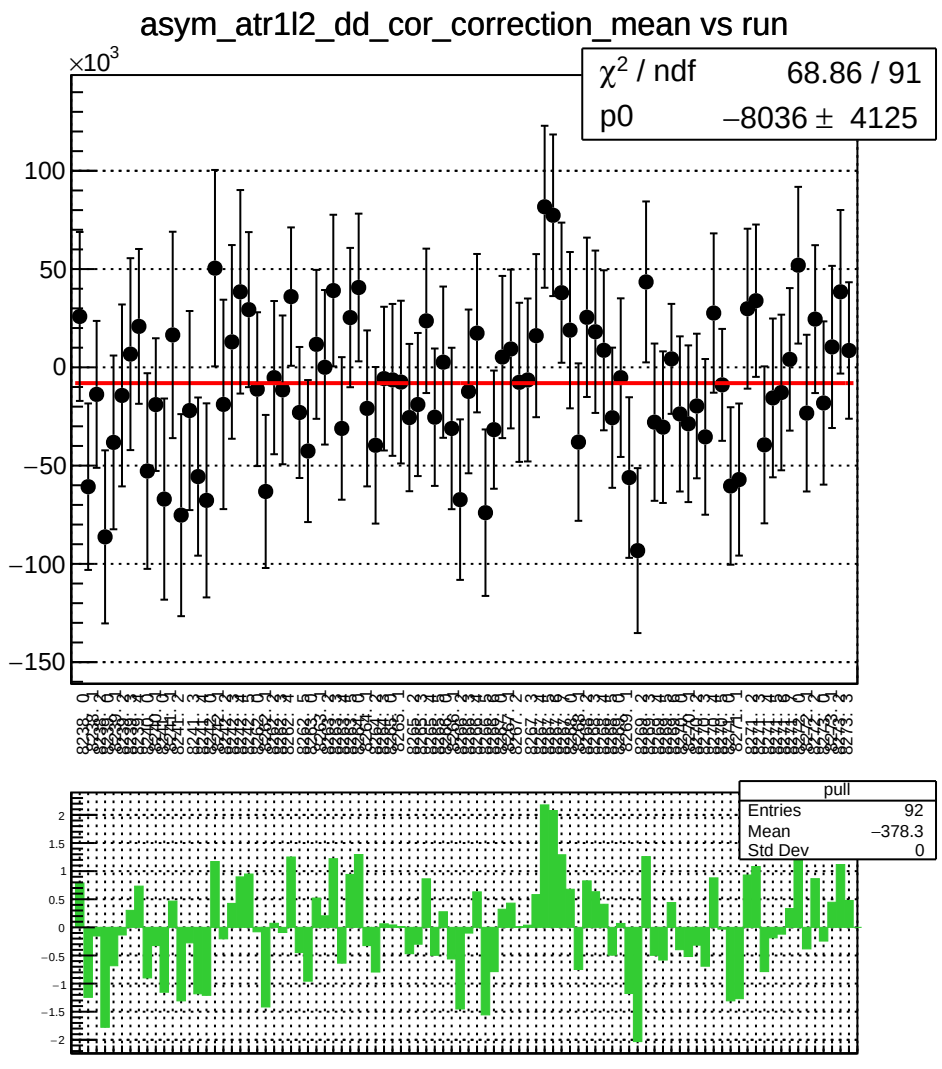

pull1D
Entries 92
Mean −0.008331
Std Dev 0.8651
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

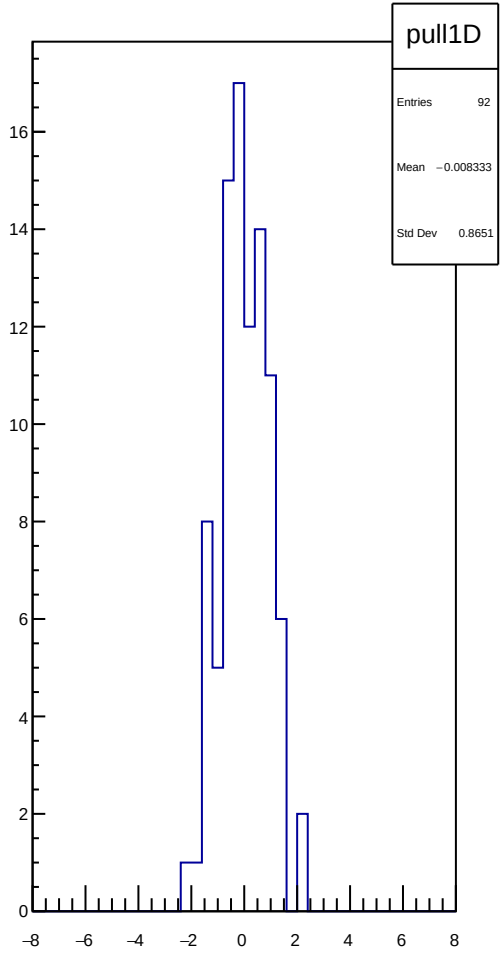

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 1.505e+04 / 91
p0 3878 ± 2.917
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

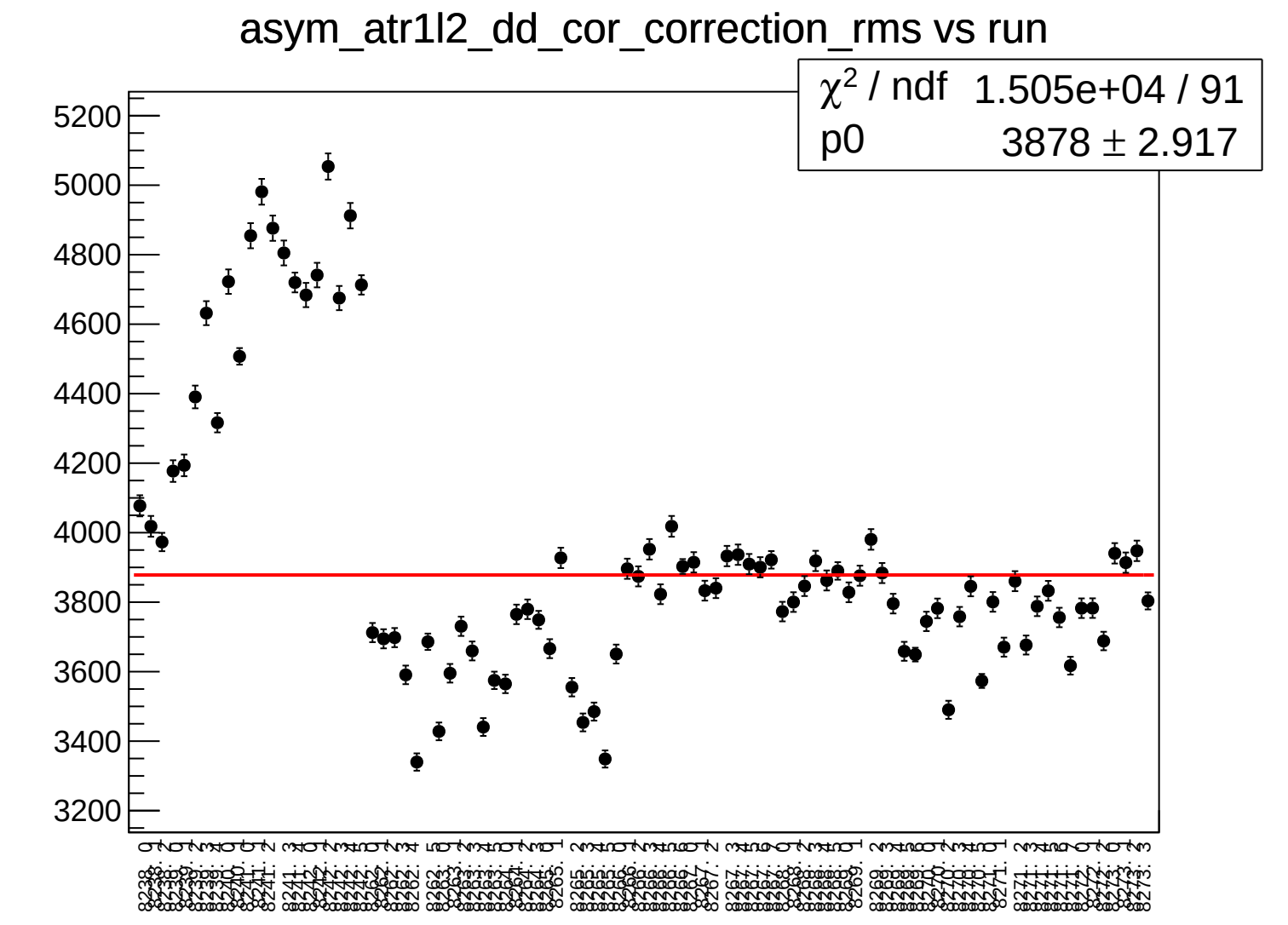

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 93.62 / 91
p0 1190 ± 1910
pull
Entries 92
Mean 517.8
Std Dev 0

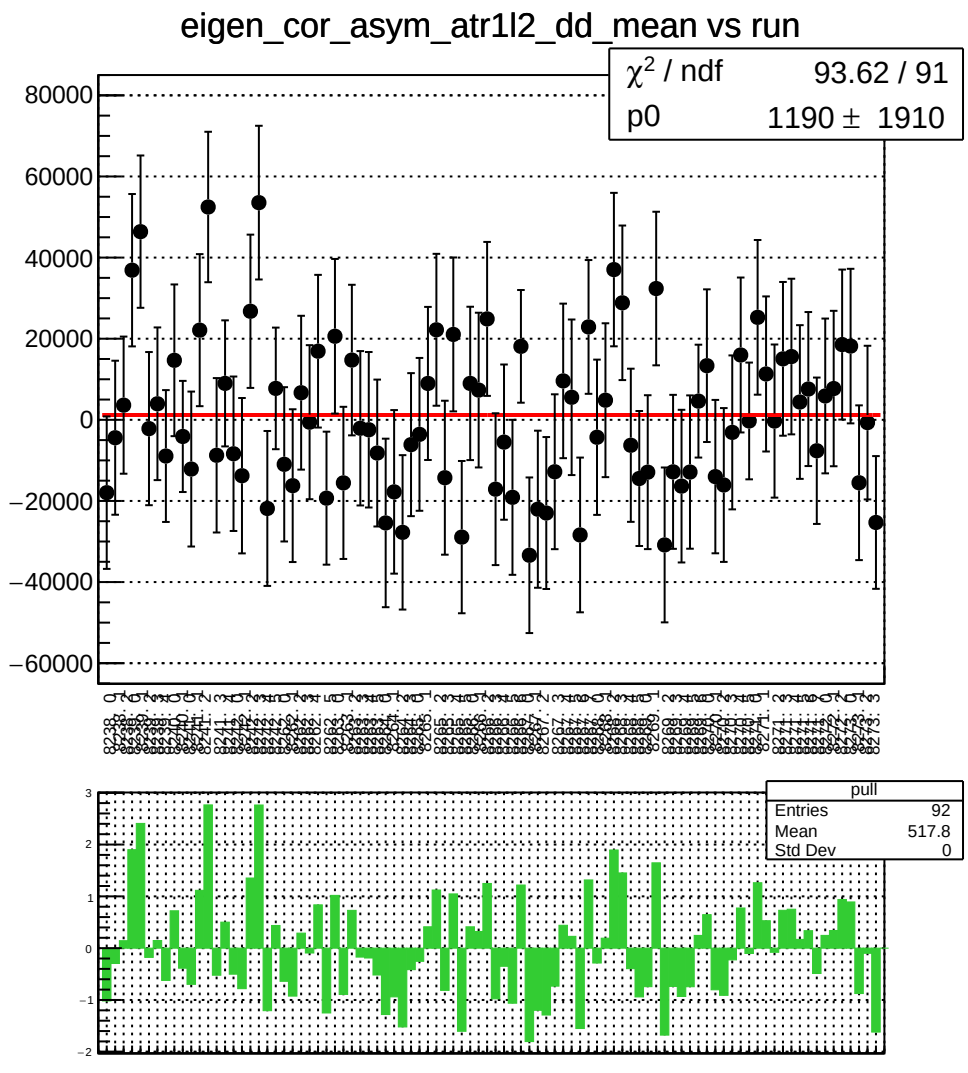

pull1D
Entries 92
Mean −0.004245
Std Dev 1.009

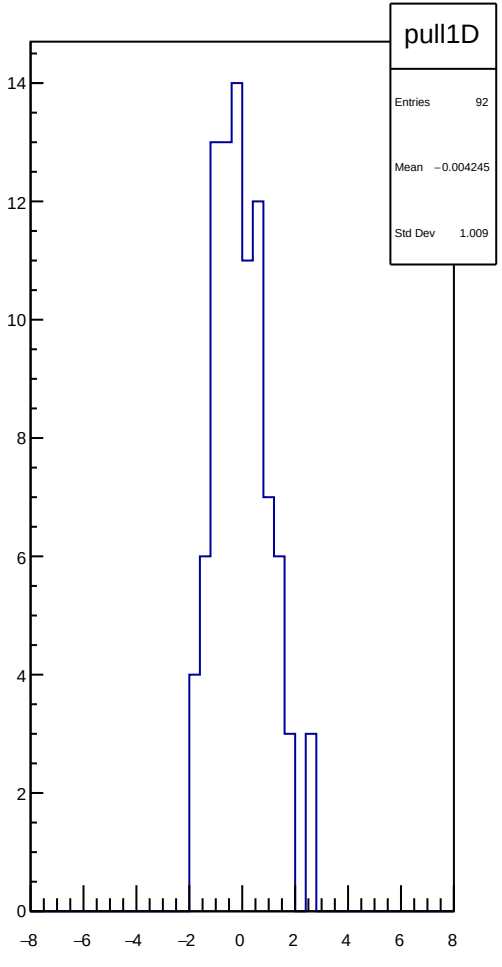

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 305.4 / 91
p0 1803 ± 1.351
2000
1950
1900
1850
1800
1750

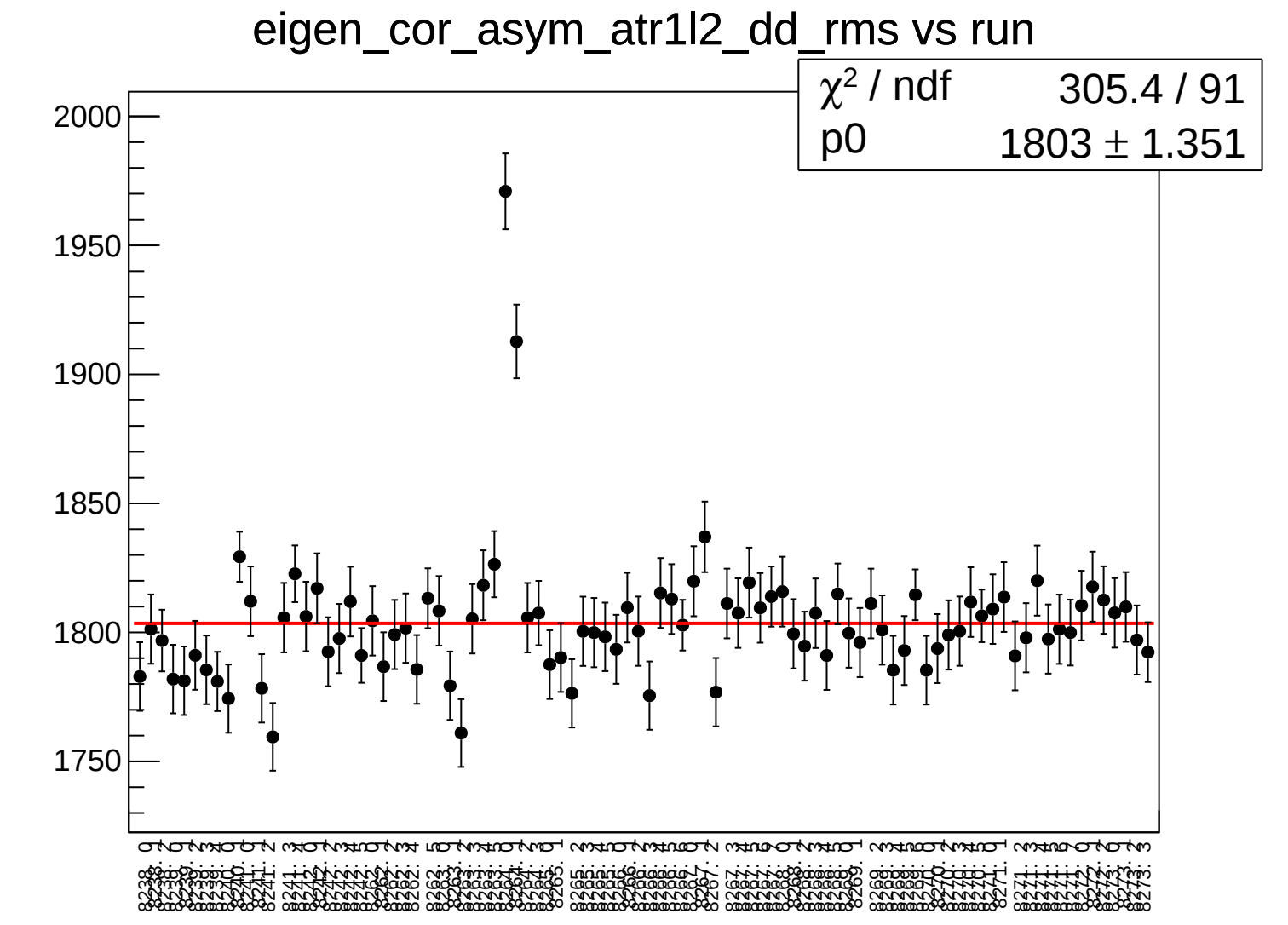

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 68.86 / 91
p0 −8036 ± 4125
100
50
0
−50
−100
−150
pull
Entries 92
Mean −378.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

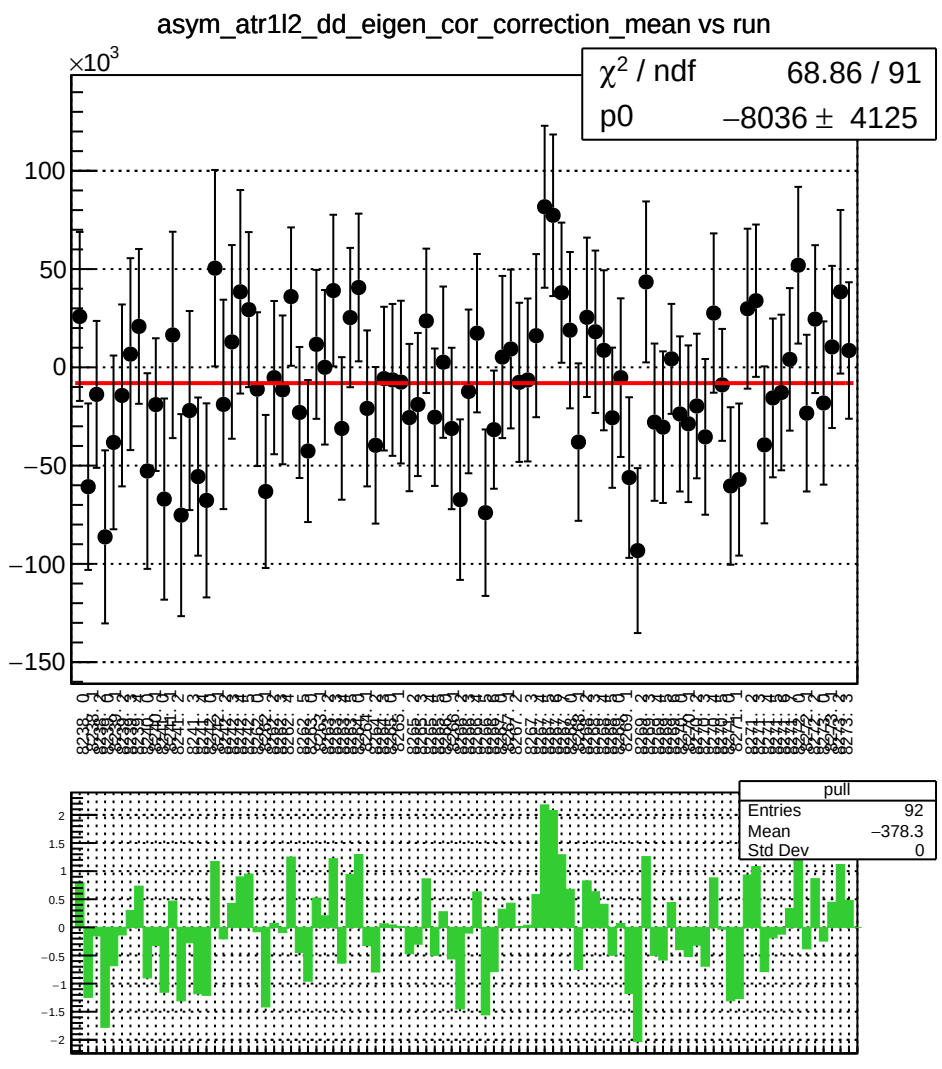

pull1D
Entries 92
Mean −0.008333
Std Dev 0.8651
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

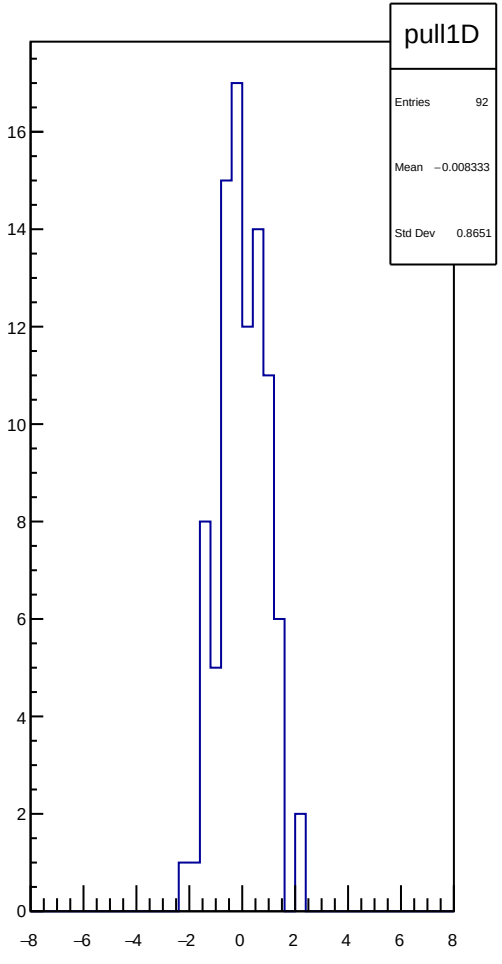

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 1.505e+04 / 91
p0 3878 ± 2.917
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

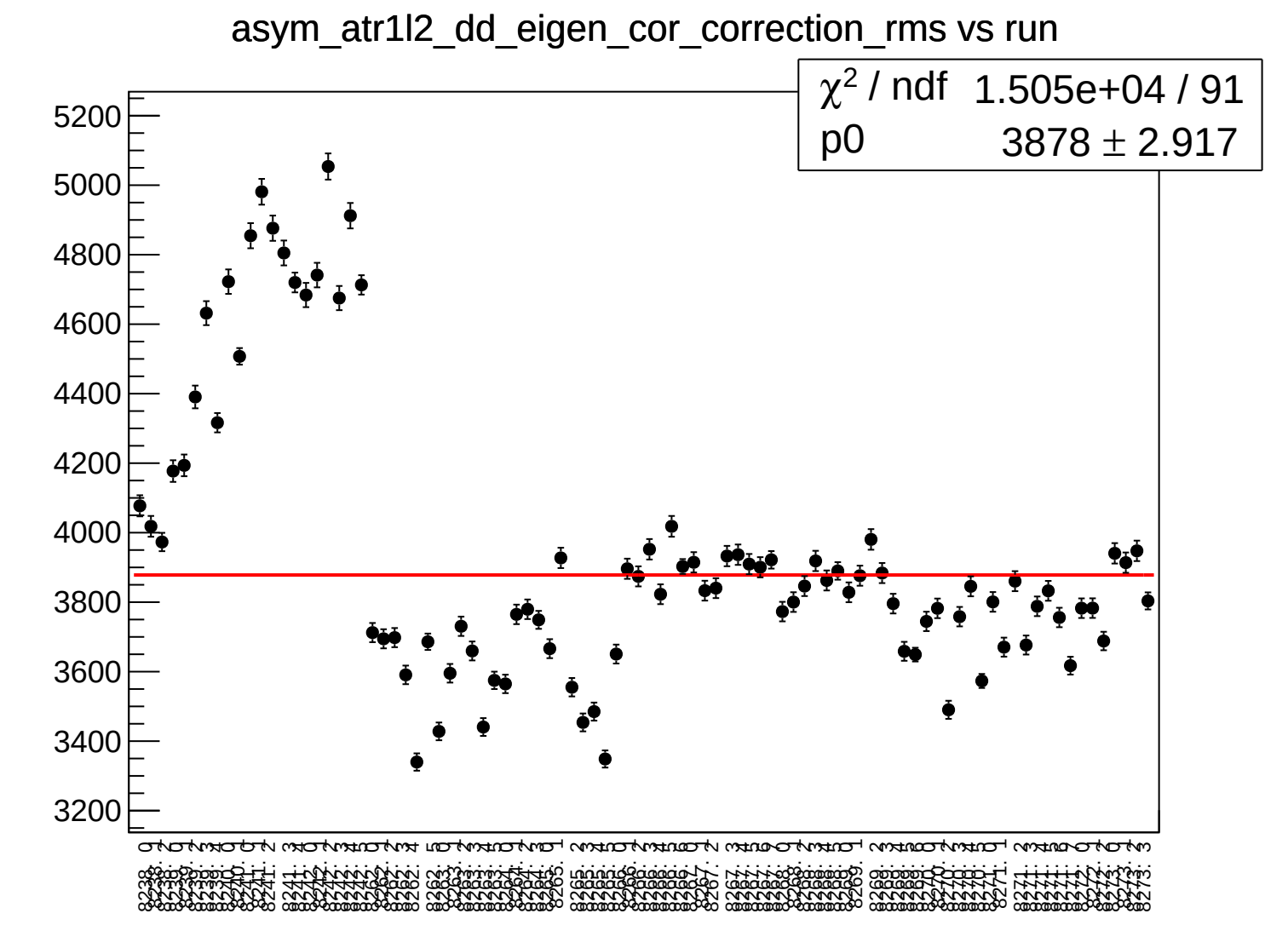

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 93.62 / 91
p0 1190 ± 1910
pull
Entries 92
Mean 517.8
Std Dev 0

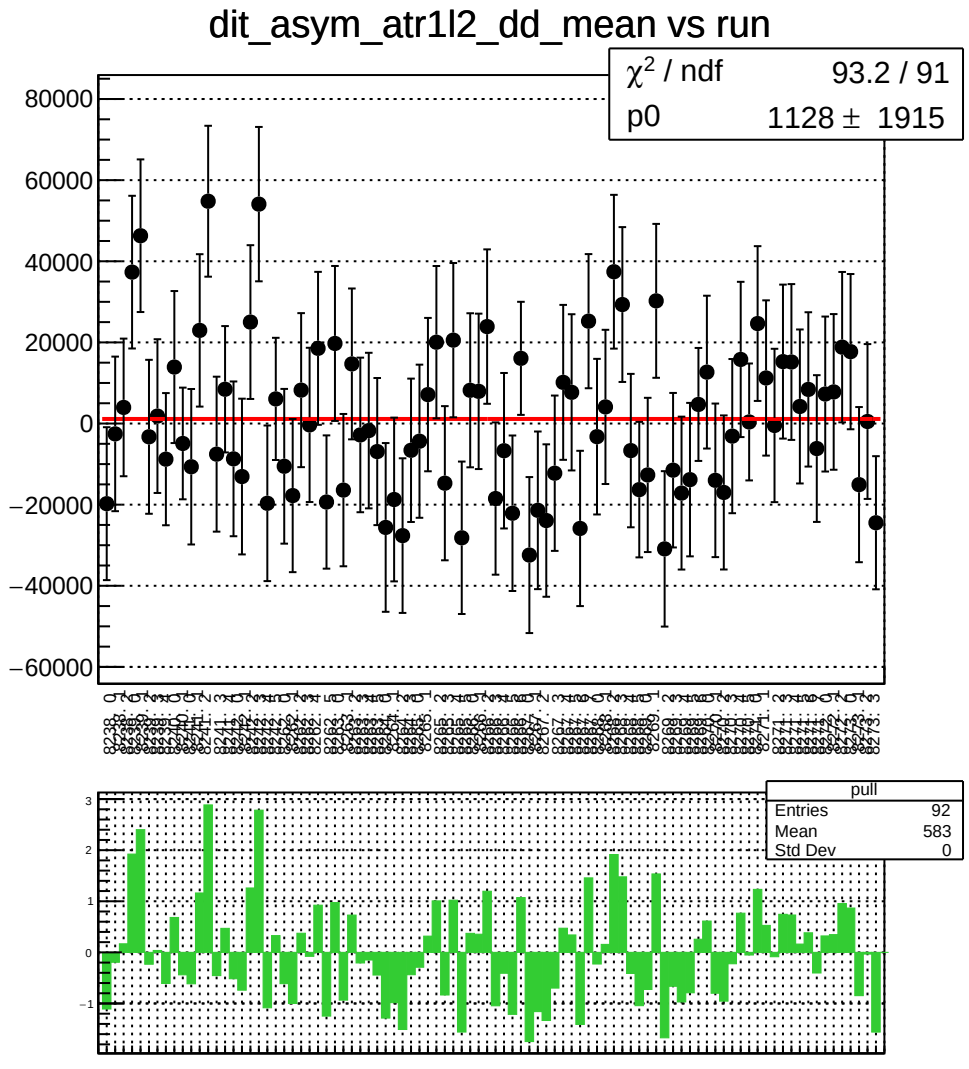

pull1D
Entries 92
Mean −0.004245
Std Dev 1.009

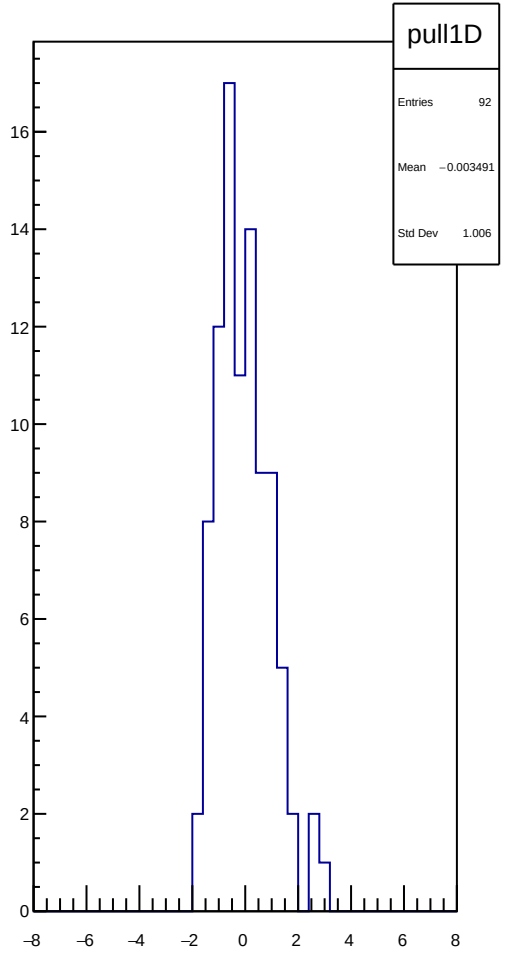

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 305.4 / 91
p0 1803 ± 1.351
2000
1950
1900
1850
1800
1750

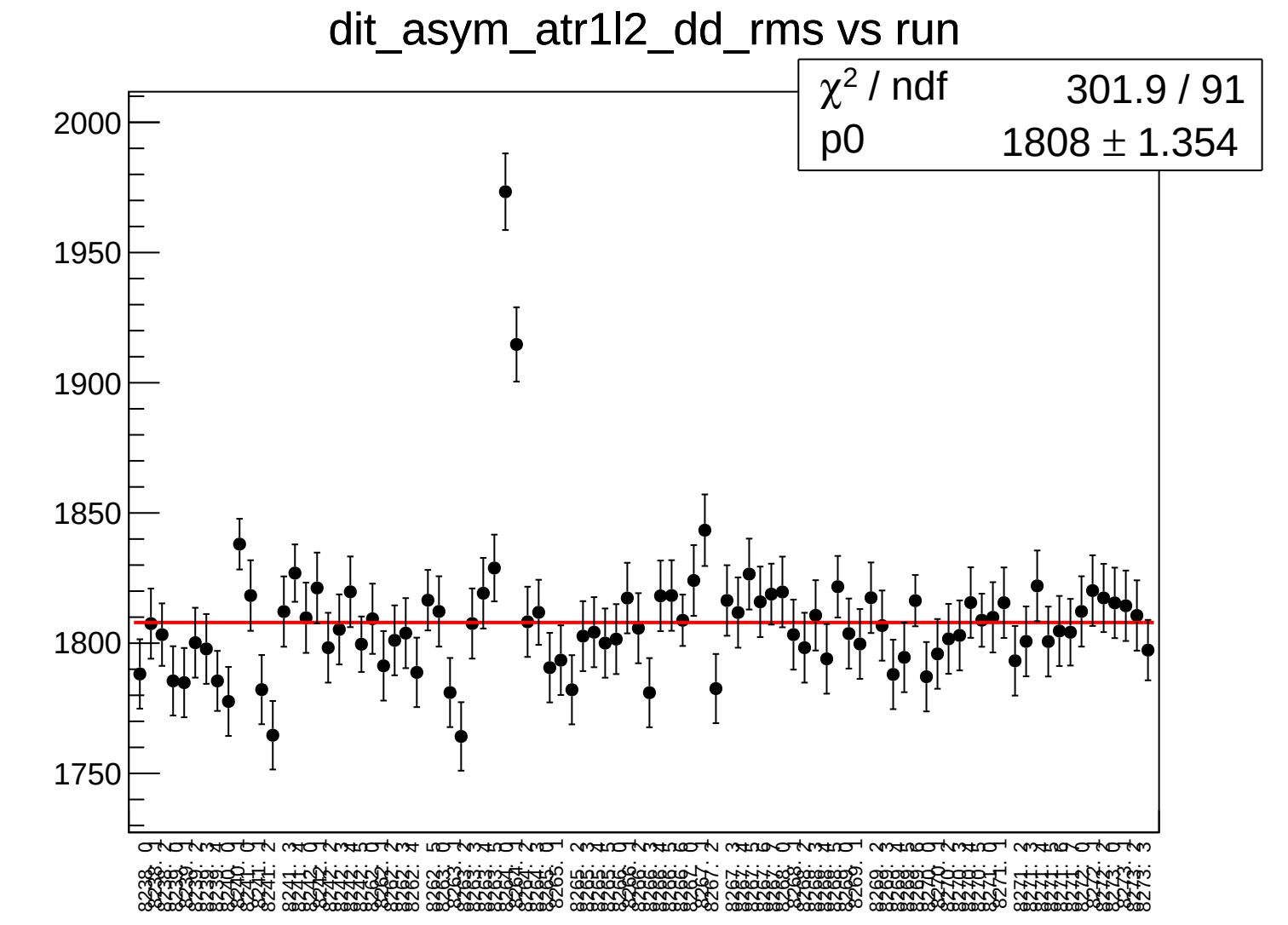

asym_atr1l2_dd_eigen_cor_correction_mean vs run
χ² / ndf 68.86 / 91
p0 −8036 ± 4125
pull
Entries 92
Mean −378.3
Std Dev 0

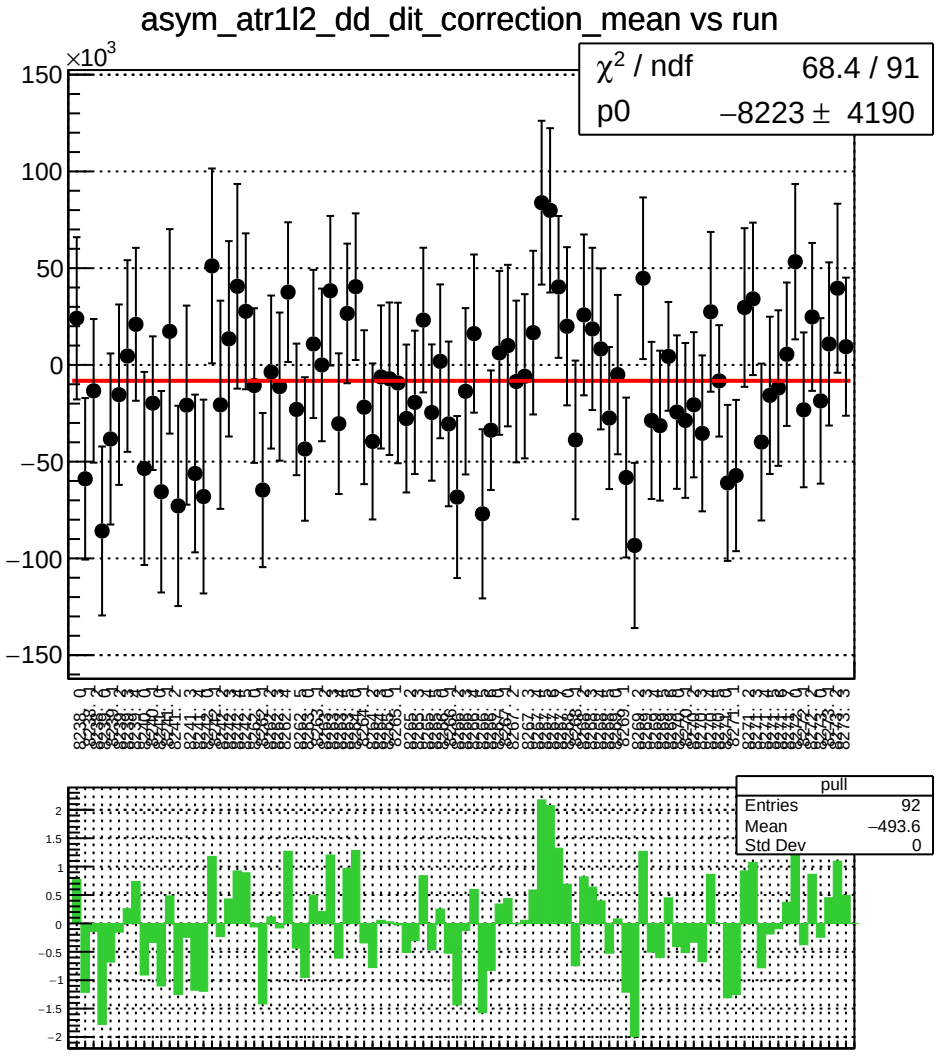

pull1D
Entries 92
Mean −0.008333
Std Dev 0.8651

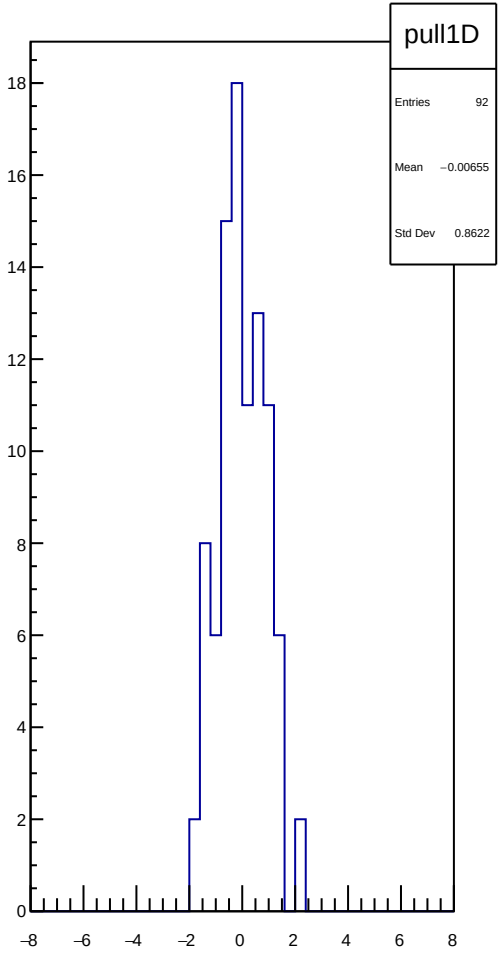

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.505e+04 / 91
p0 3878 ± 2.917
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

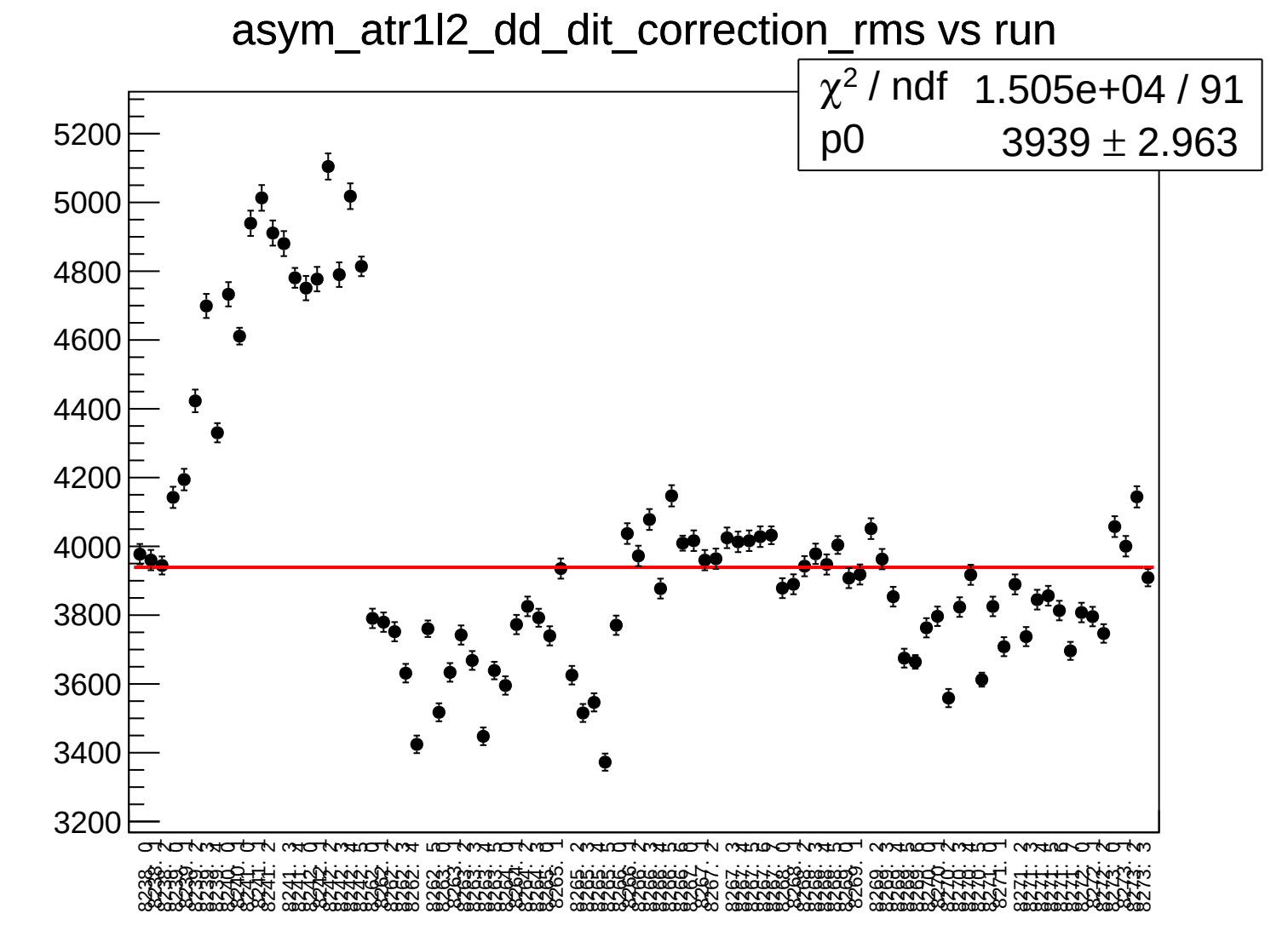

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 93.2 / 91
p0 1128 ± 1915
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 583
Std Dev 0
3
2
1
0
−1

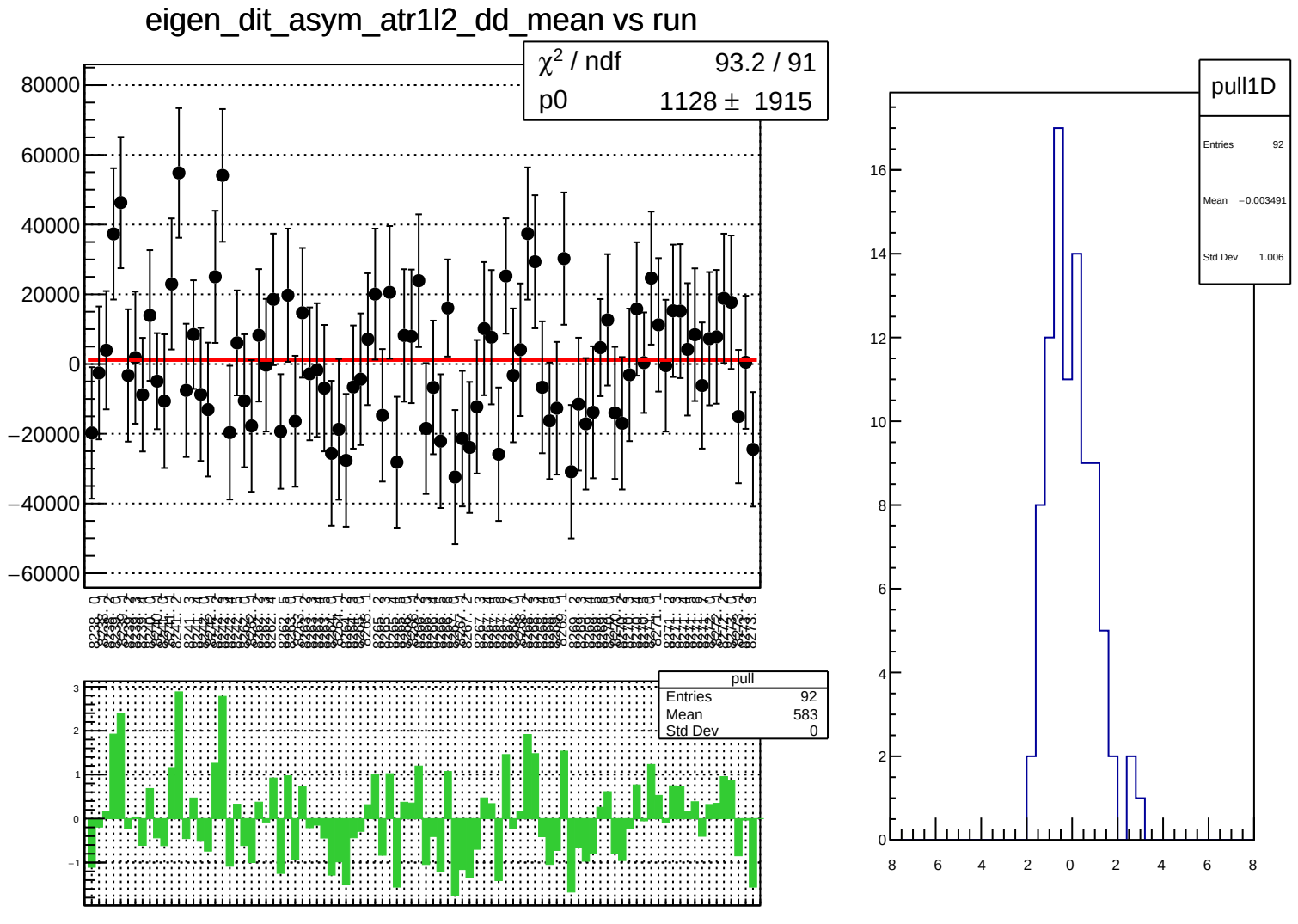

pull1D
Entries 92
Mean −0.003491
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

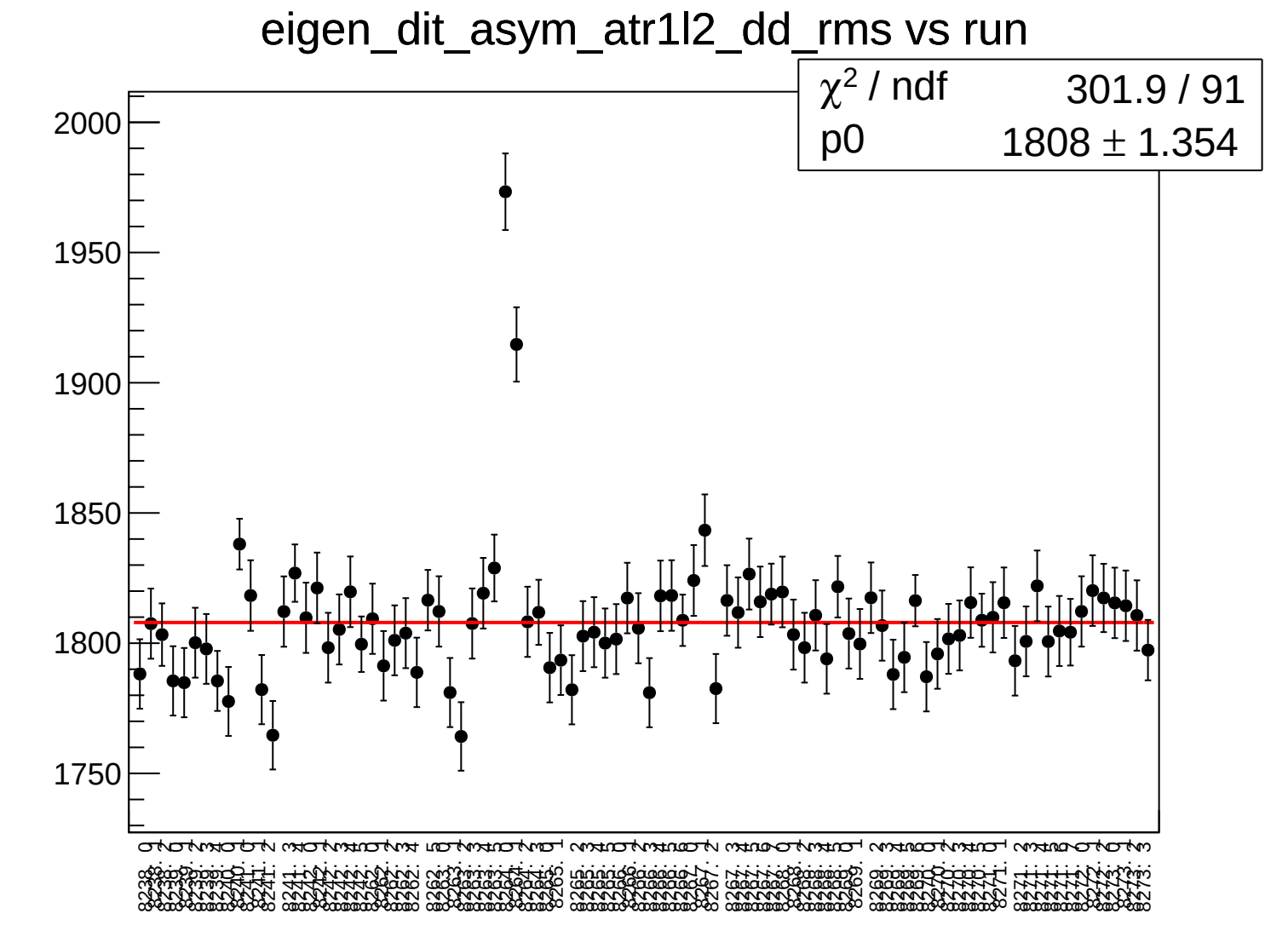

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 301.9 / 91
p0 1808 ± 1.354
2000
1950
1900
1850
1800
1750

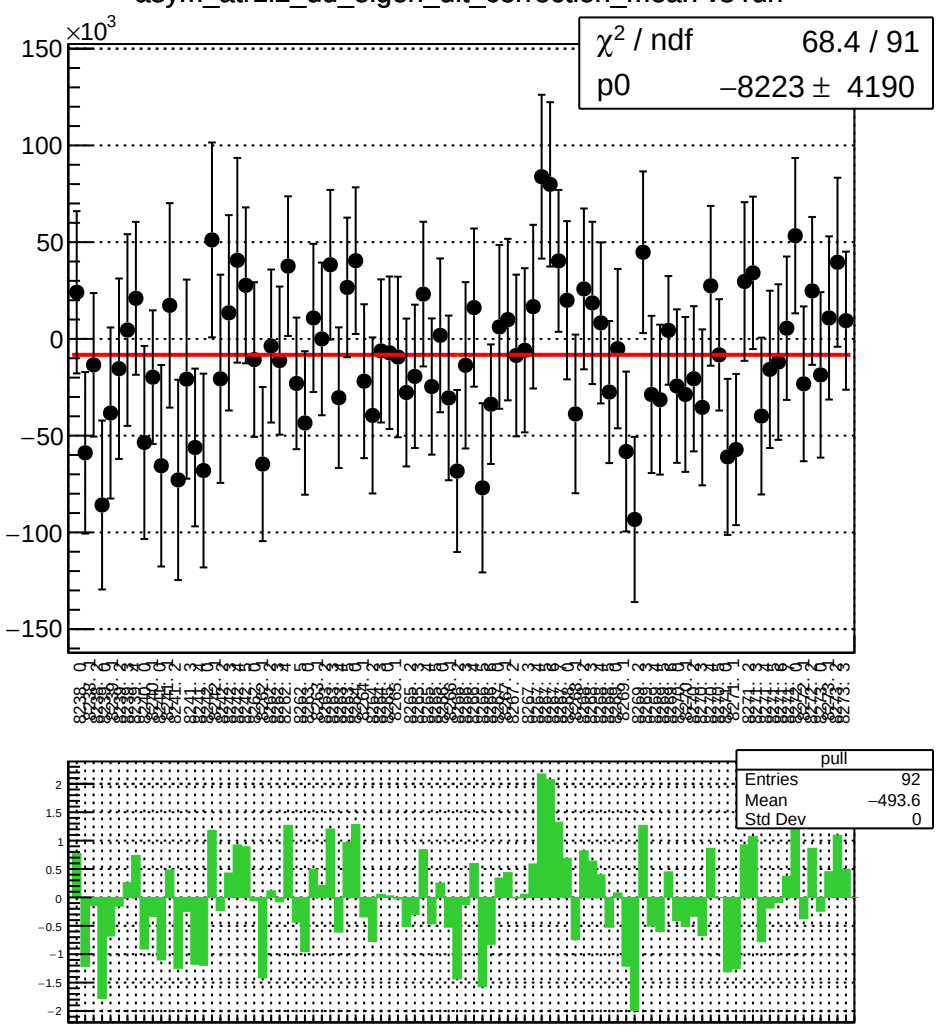

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 68.4 / 91
p0 −8223 ± 4190
pull
Entries 92
Mean −493.6
Std Dev 0

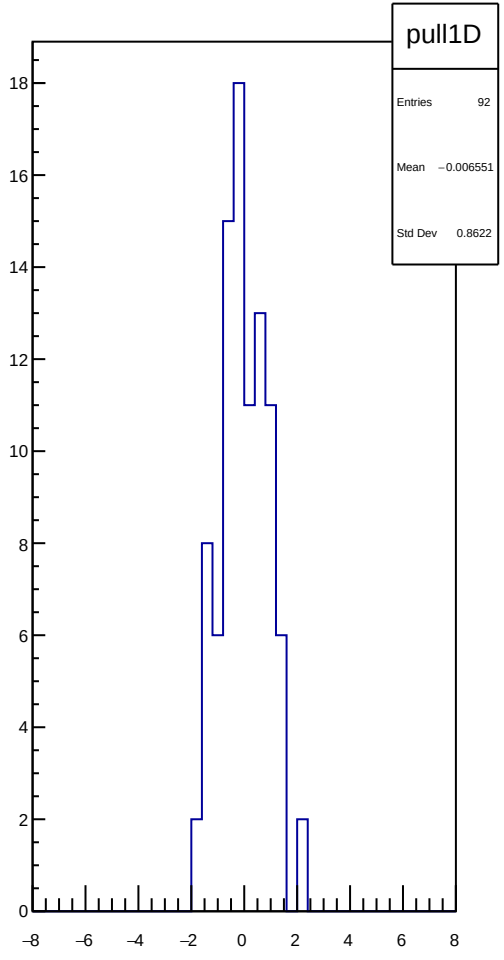

pull1D
Entries 92
Mean −0.00655
Std Dev 0.8622

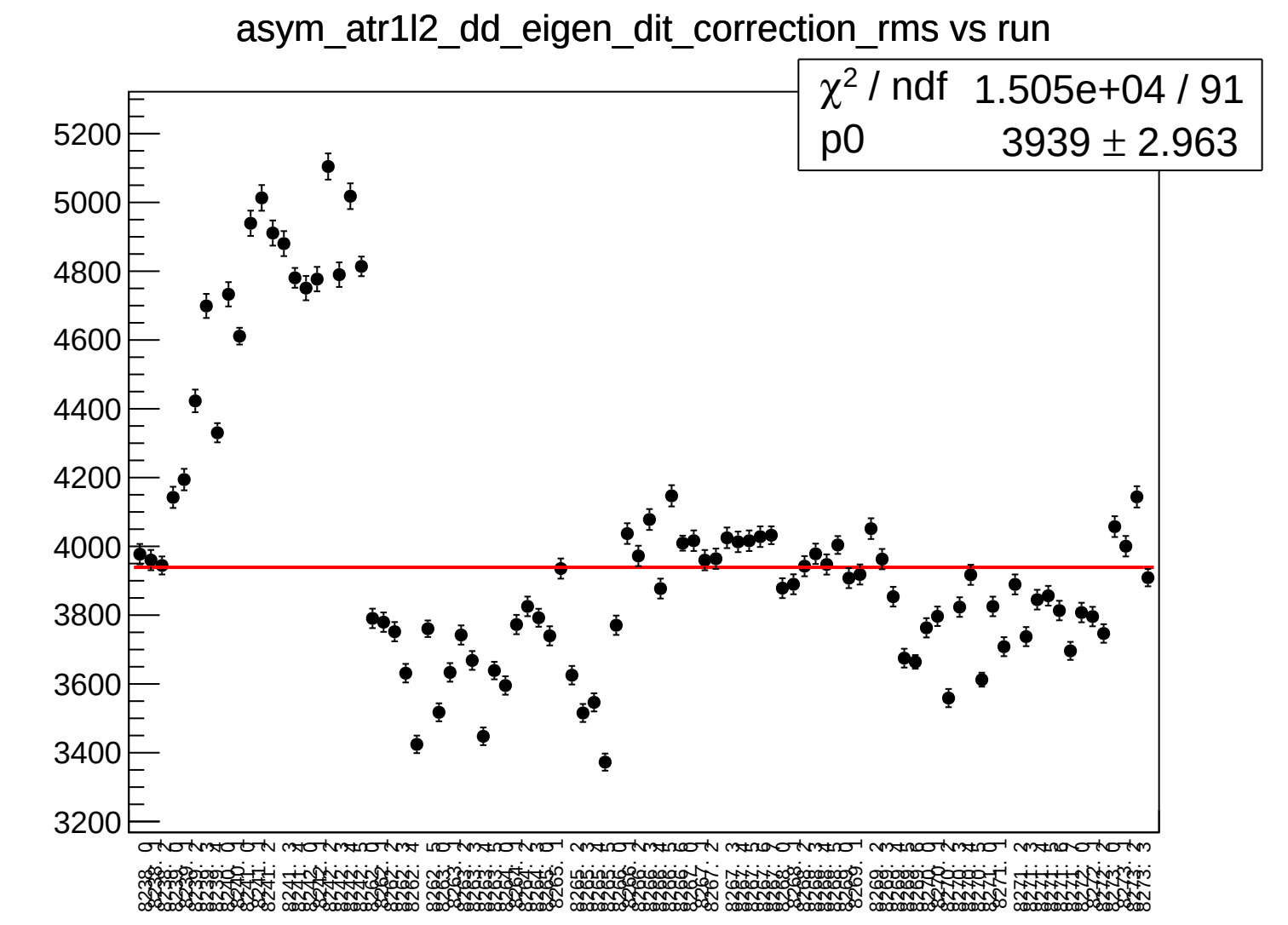

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 1.505e+04 / 91
p0 3939 ± 2.963
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

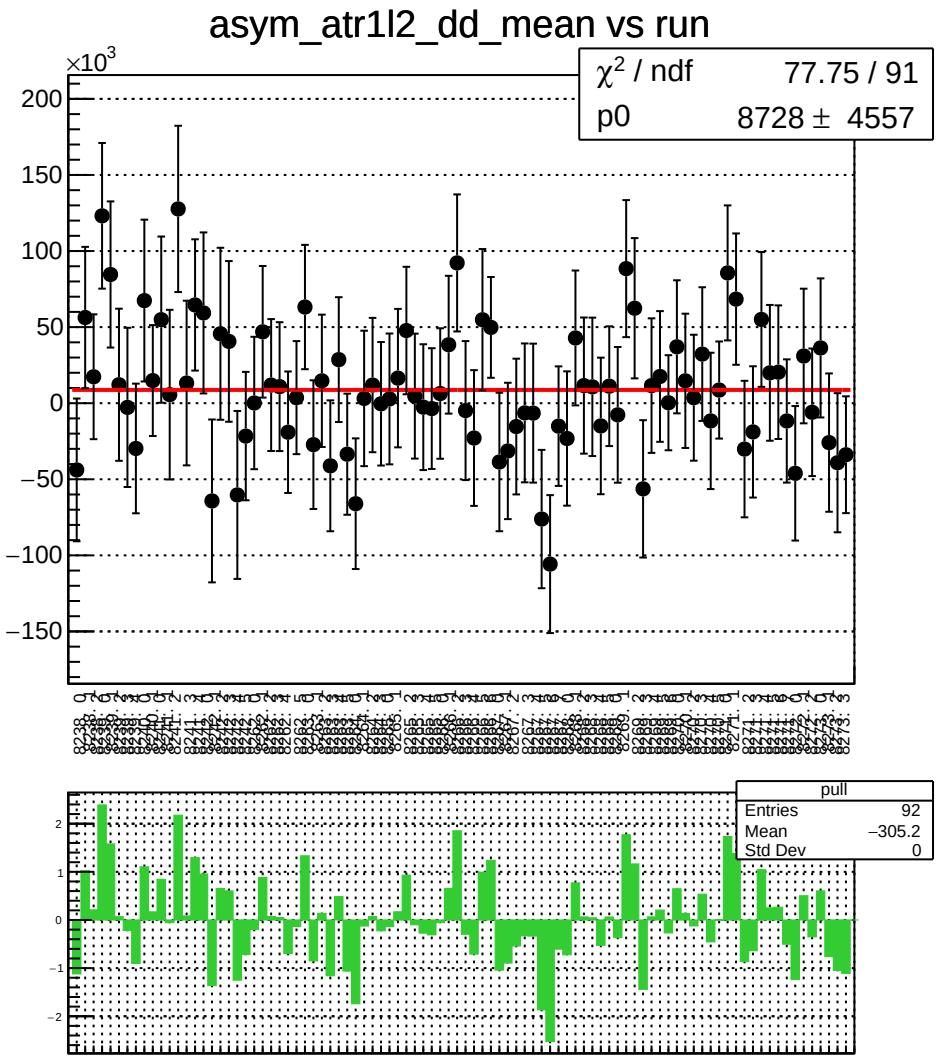

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 93.2 / 91
p0 1128 ± 1915
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 583
Std Dev 0
3
2
1
0
−1
pull1D
Entries 92
Mean −0.003491
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

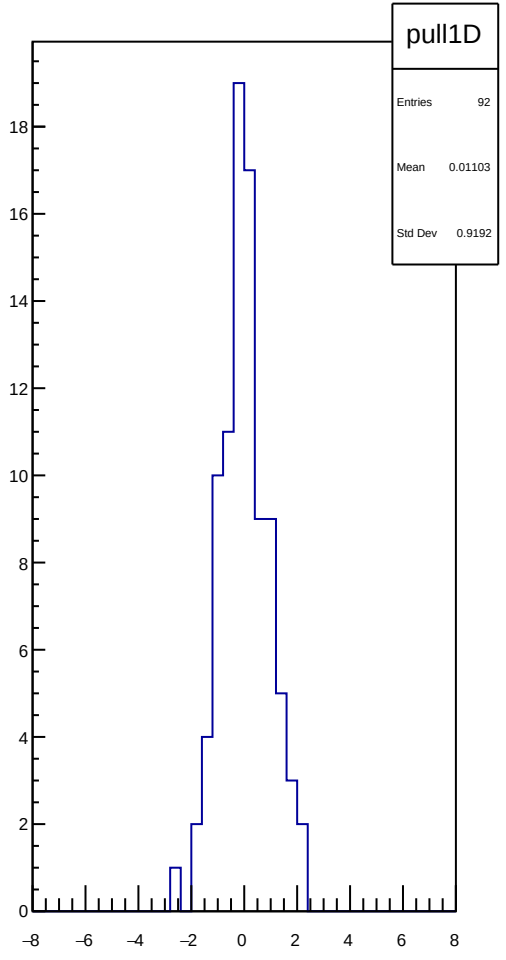

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 301.9 / 91
p0 1808 ± 1.354
2000
1950
1900
1850
1800
1750

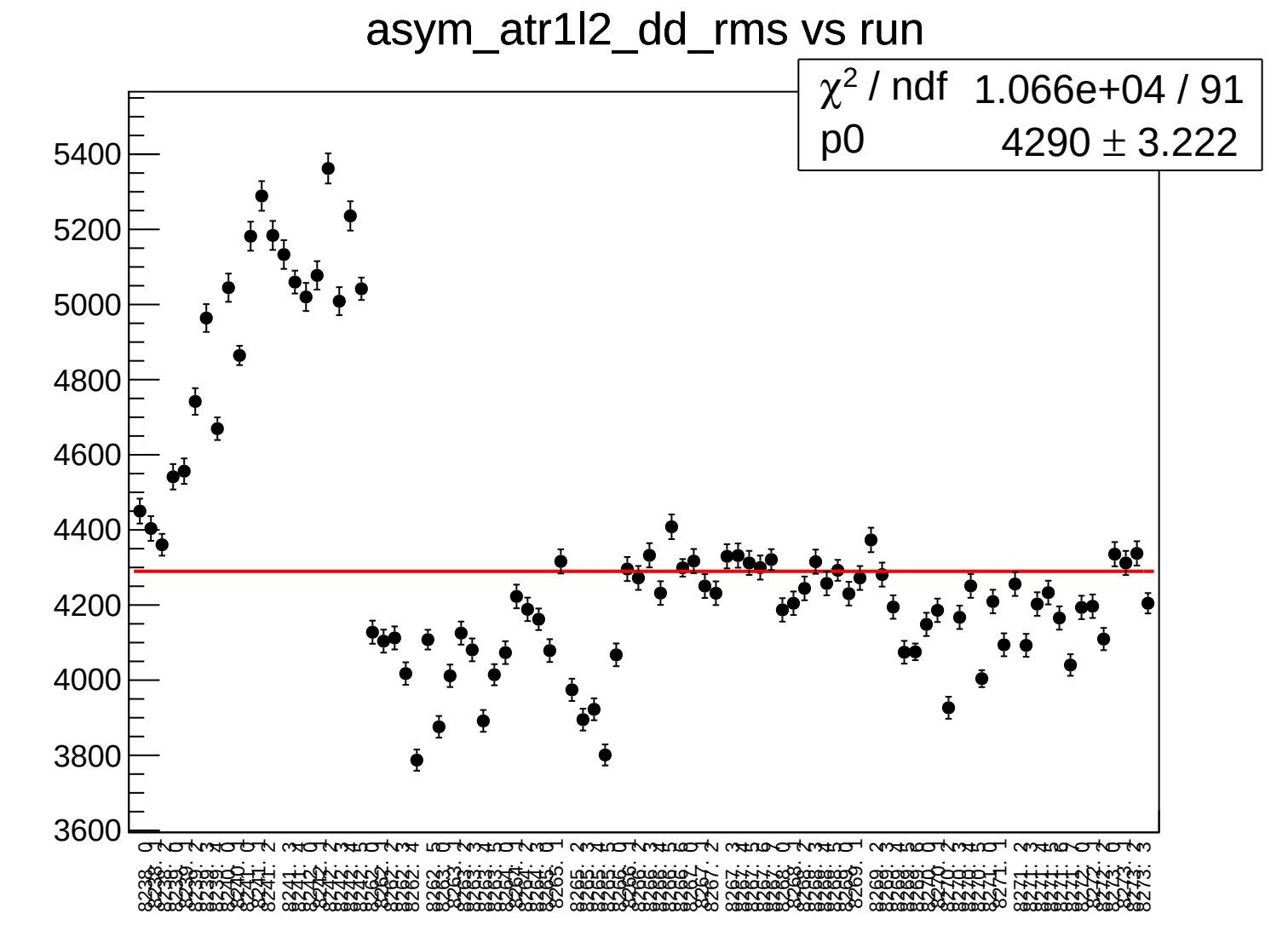

asym_atr1l2_dd_eigen_dit_correction_mean vs run
χ² / ndf 68.4 / 91
p0 −8223 ± 4190
×10³
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −493.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

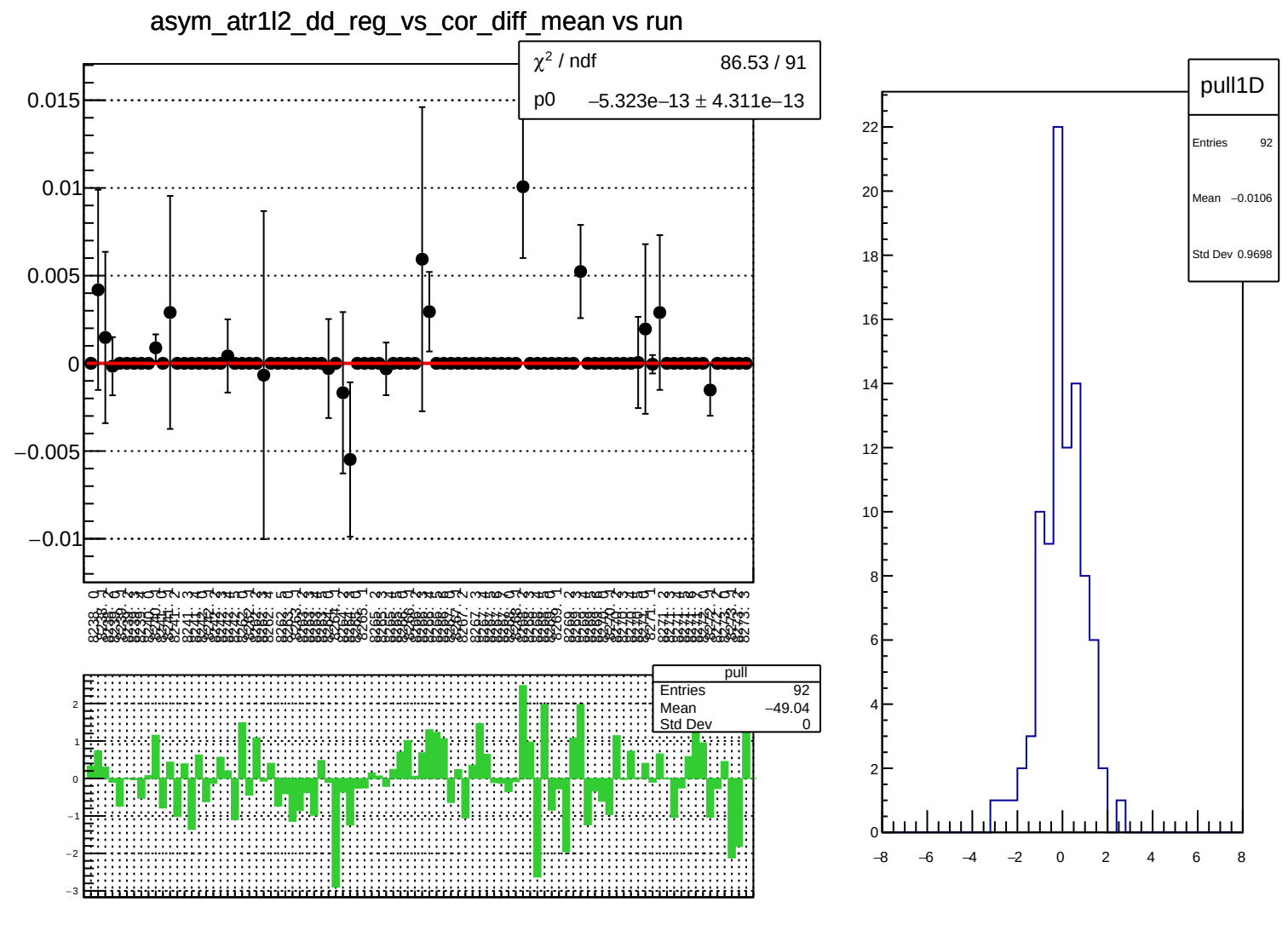

pull1D
Entries 92
Mean −0.006551
Std Dev 0.8622
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

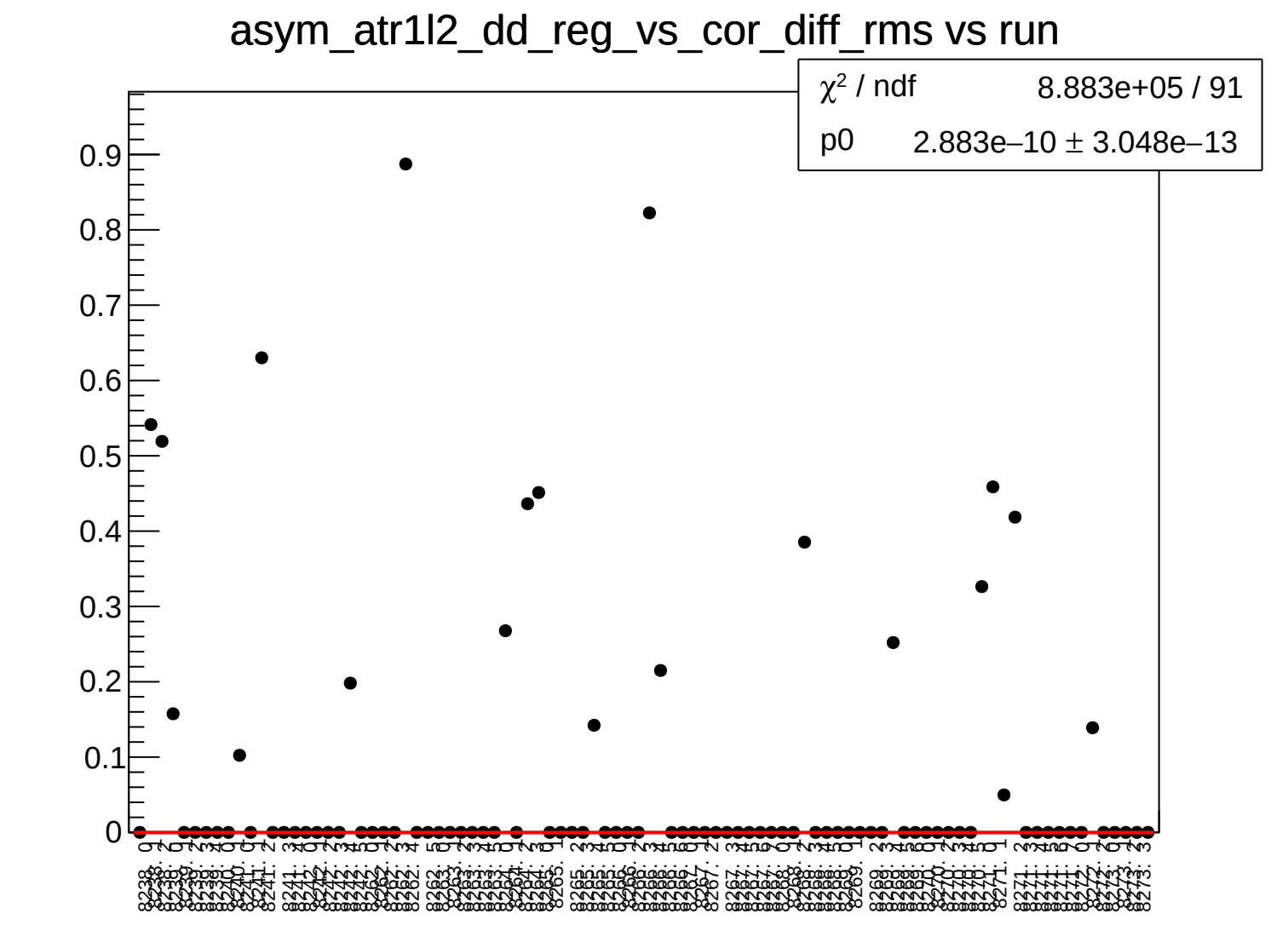

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.505e+04 / 91
p0 3939 ± 2.963
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

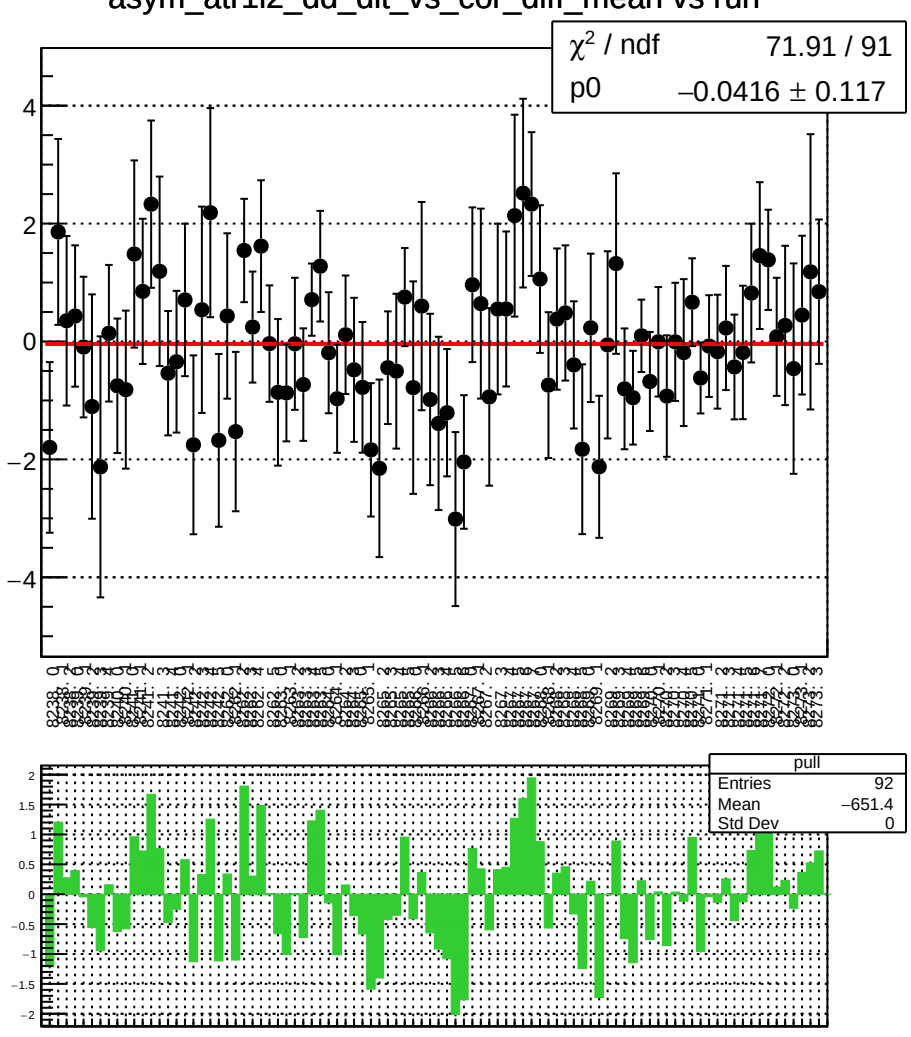

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 77.75 / 91
p0 8728 ± 4557
pull
Entries 92
Mean −305.2
Std Dev 0

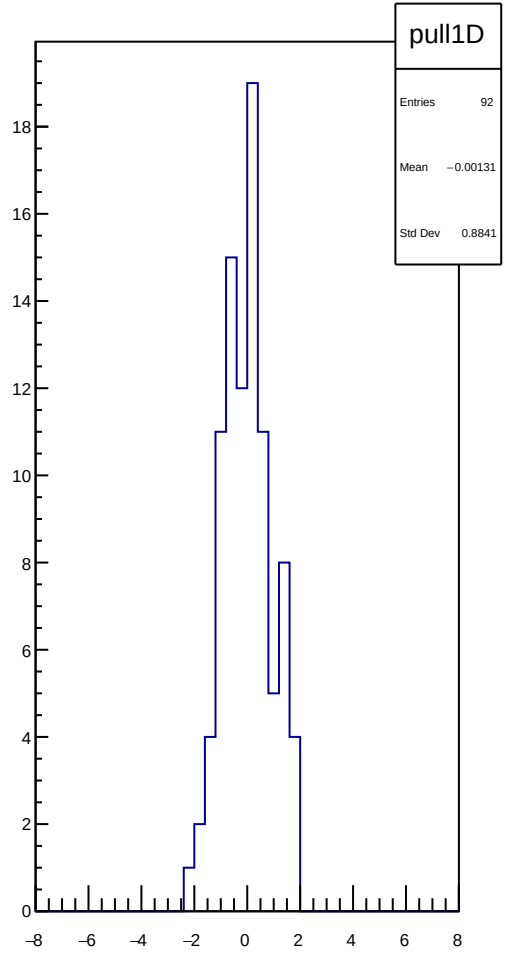

pull1D
Entries 92
Mean 0.01103
Std Dev 0.9192

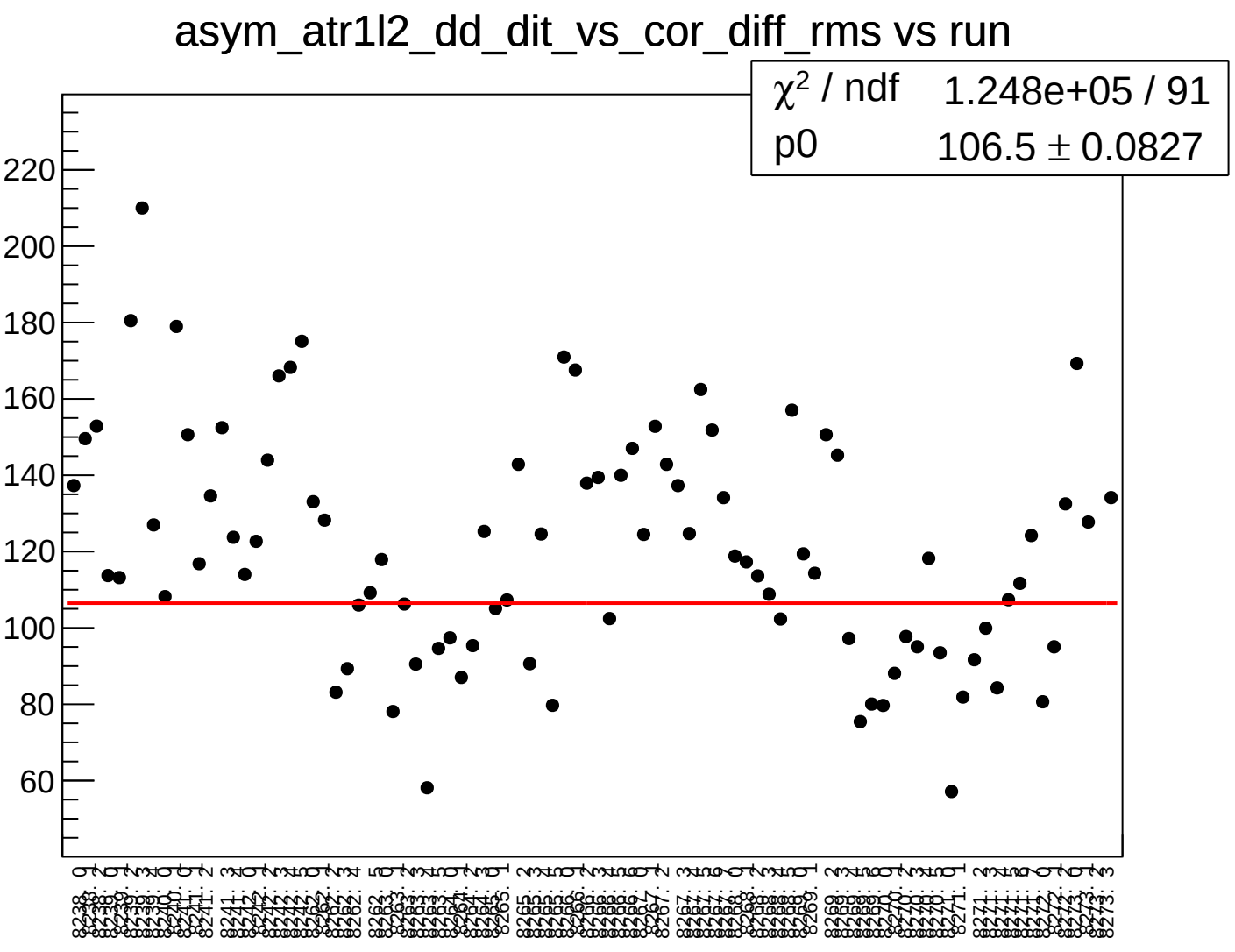

asym_atr1l2_dd_rms vs run
$\chi^2$ / ndf 1.066e+04 / 91
p0 4290 ± 3.222
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

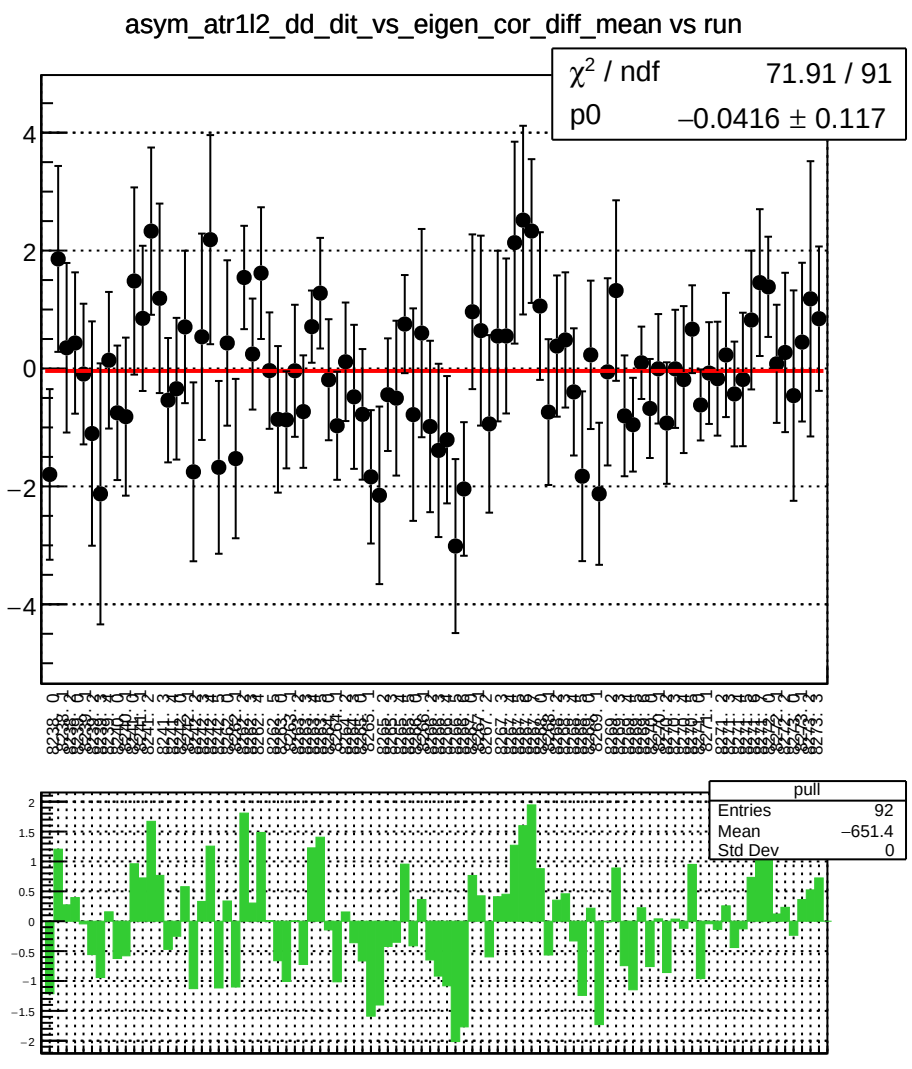

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.53 / 91
p0 −5.323e−13 ± 4.311e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 92
Mean −49.04
Std Dev 0
pull1D
Entries 92
Mean −0.0106
Std Dev 0.9698

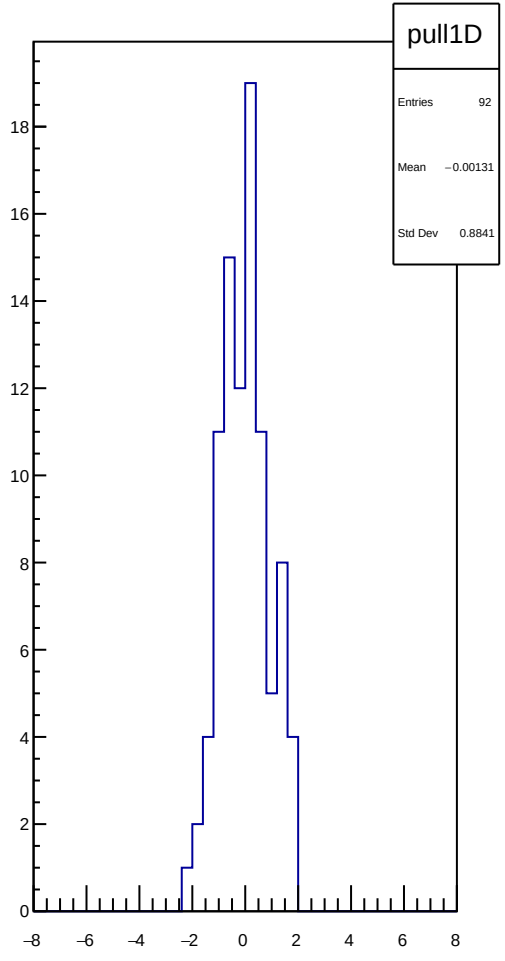

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.883e+05 / 91
p0 2.883e−10 ± 3.048e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

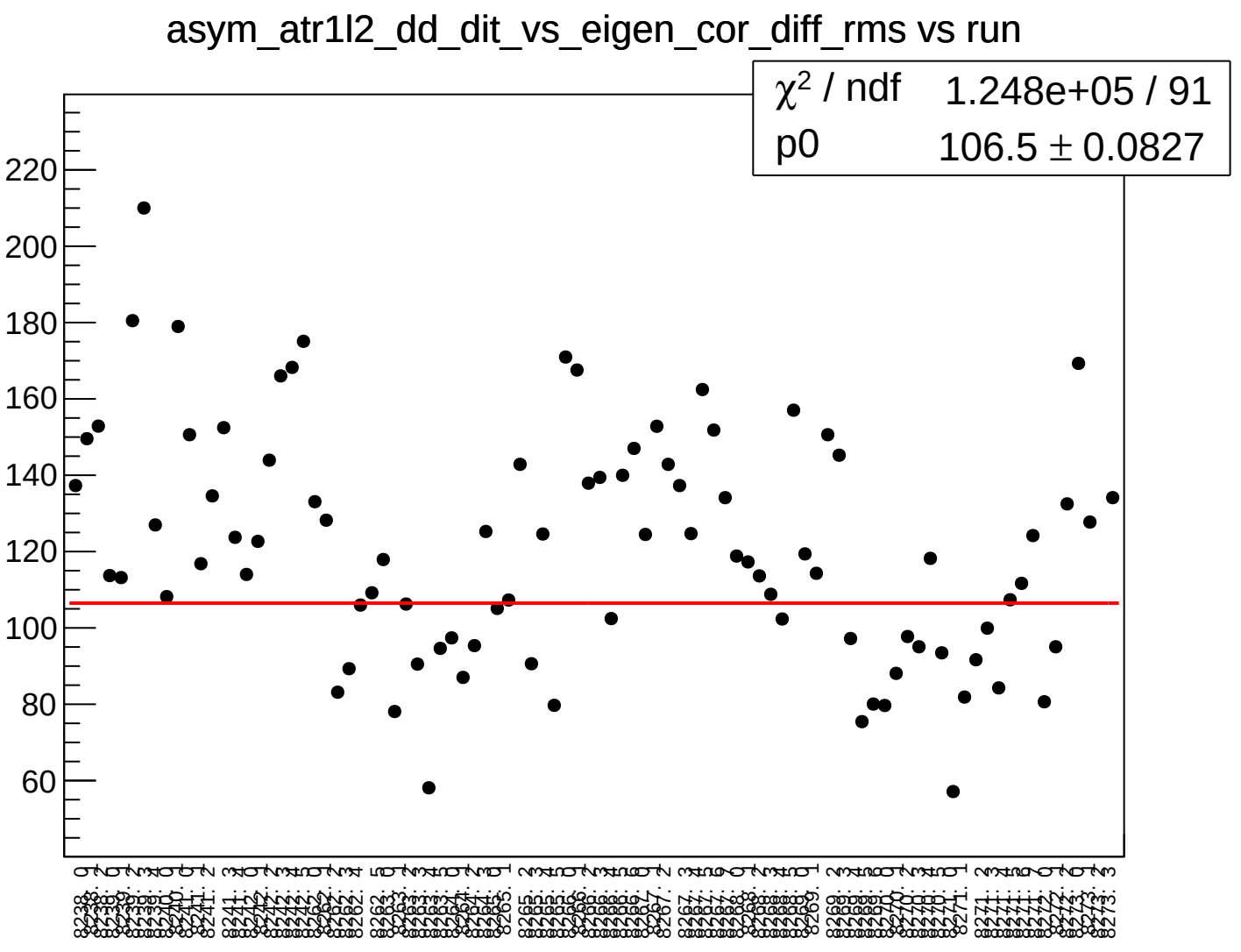

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.91 / 91
p0 −0.0416 ± 0.117
pull
Entries 92
Mean −651.4
Std Dev 0

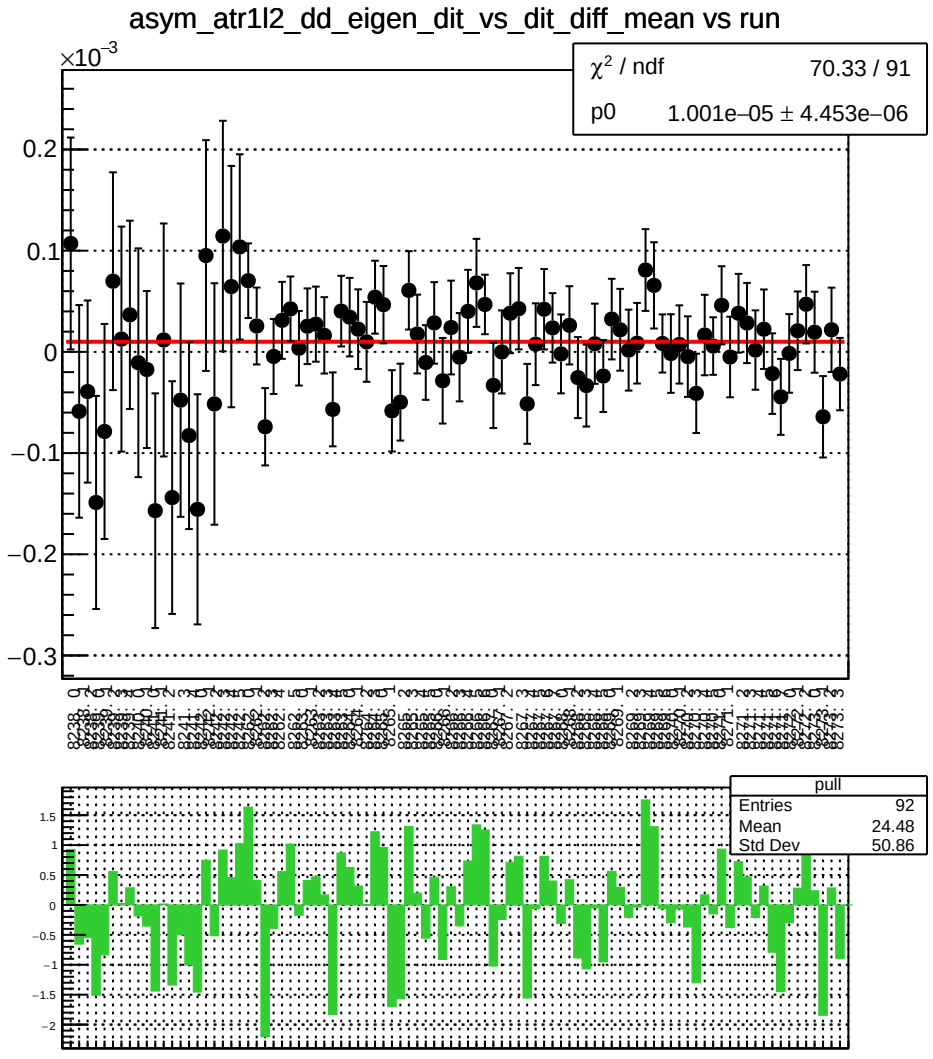

pull1D
Entries 92
Mean −0.00131
Std Dev 0.8841

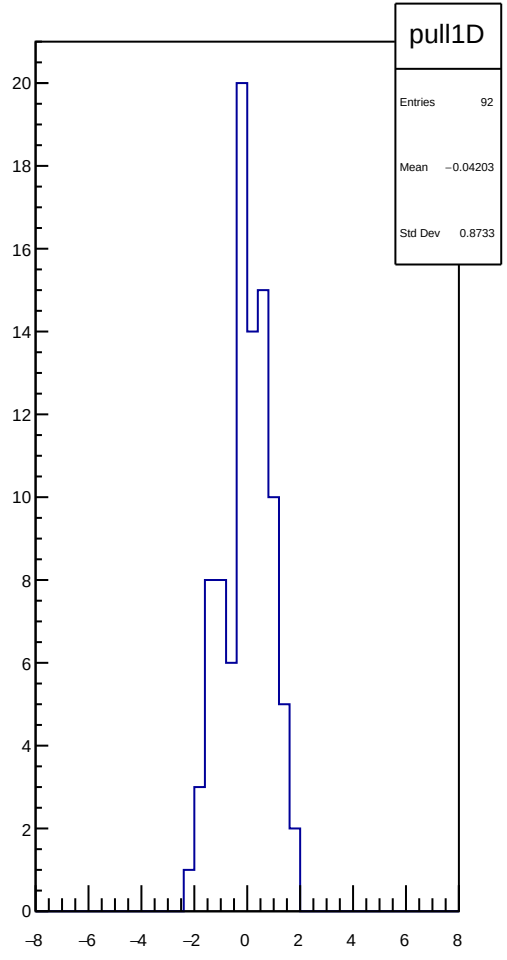

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.248e+05 / 91
p0 106.5 ± 0.0827
220
200
180
160
140
120
100
80
60

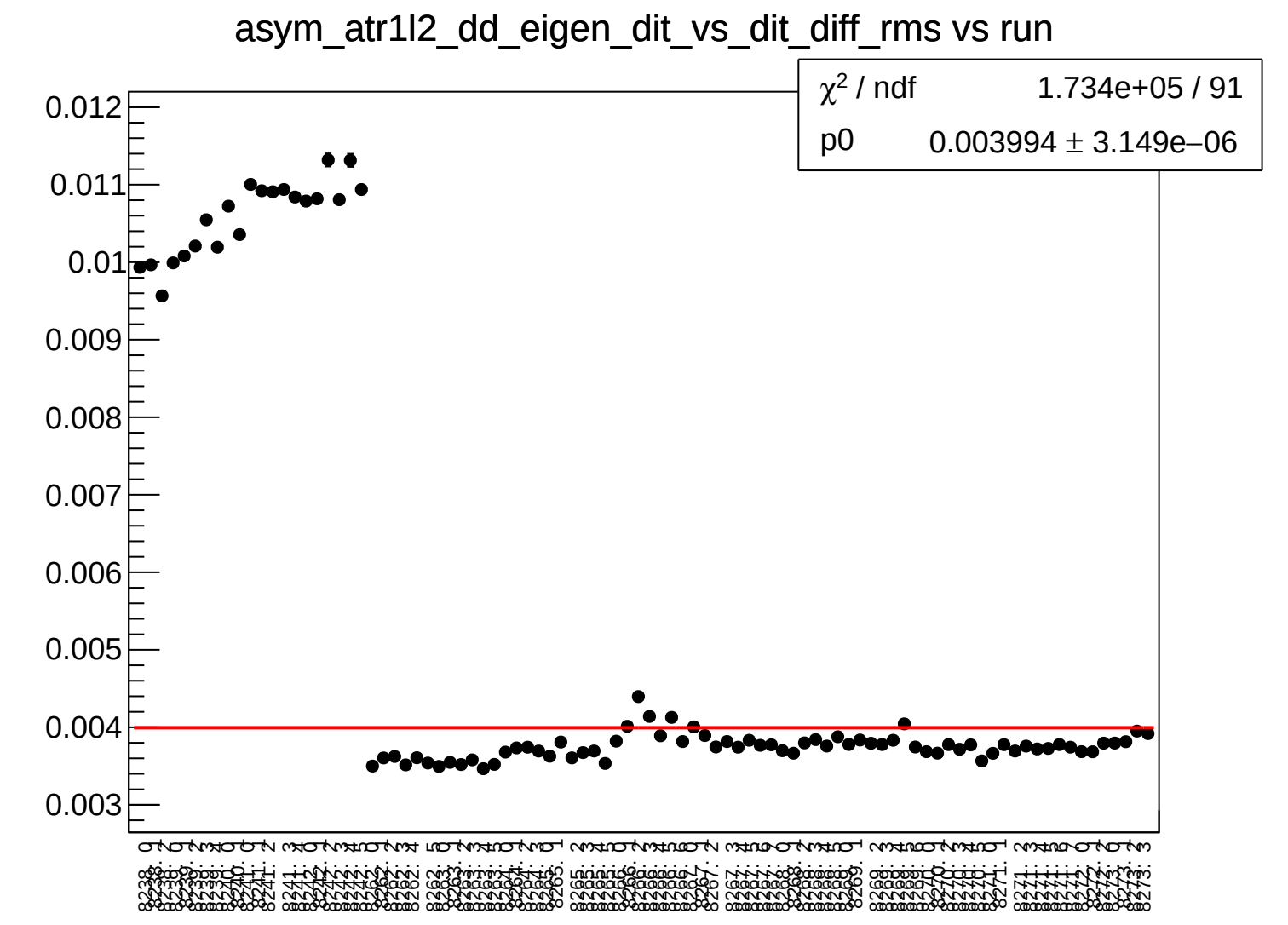

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.91 / 91
p0 −0.0416 ± 0.117
pull
Entries 92
Mean −651.4
Std Dev 0

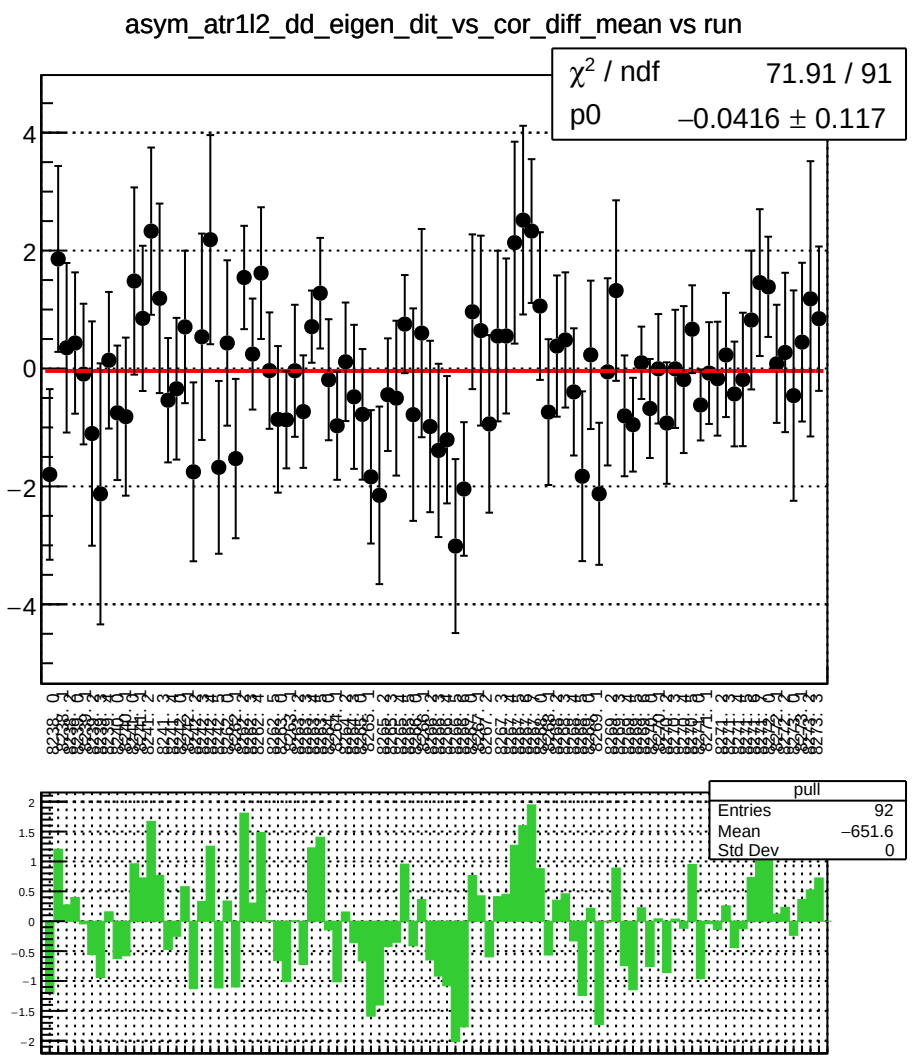

pull1D
Entries 92
Mean −0.00131
Std Dev 0.8841

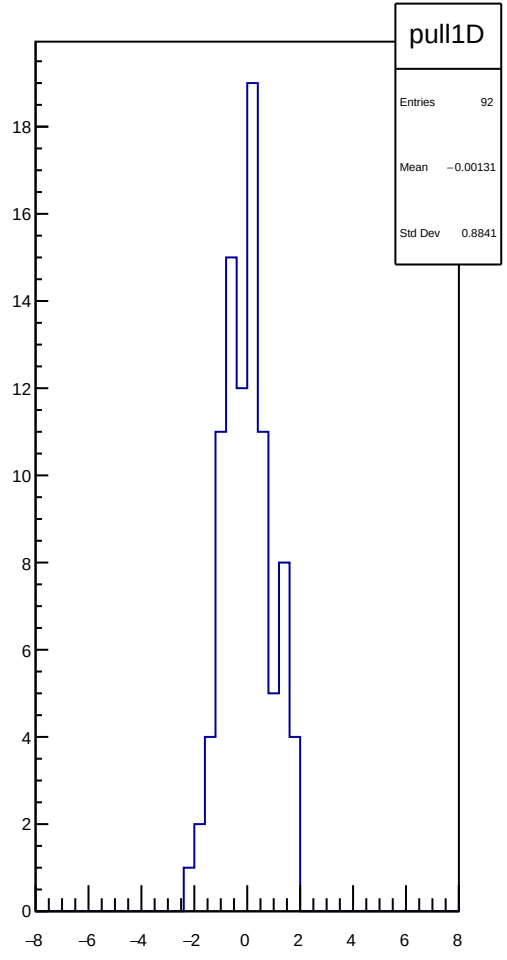

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.248e+05 / 91
p0 106.5 ± 0.0827
220
200
180
160
140
120
100
80
60

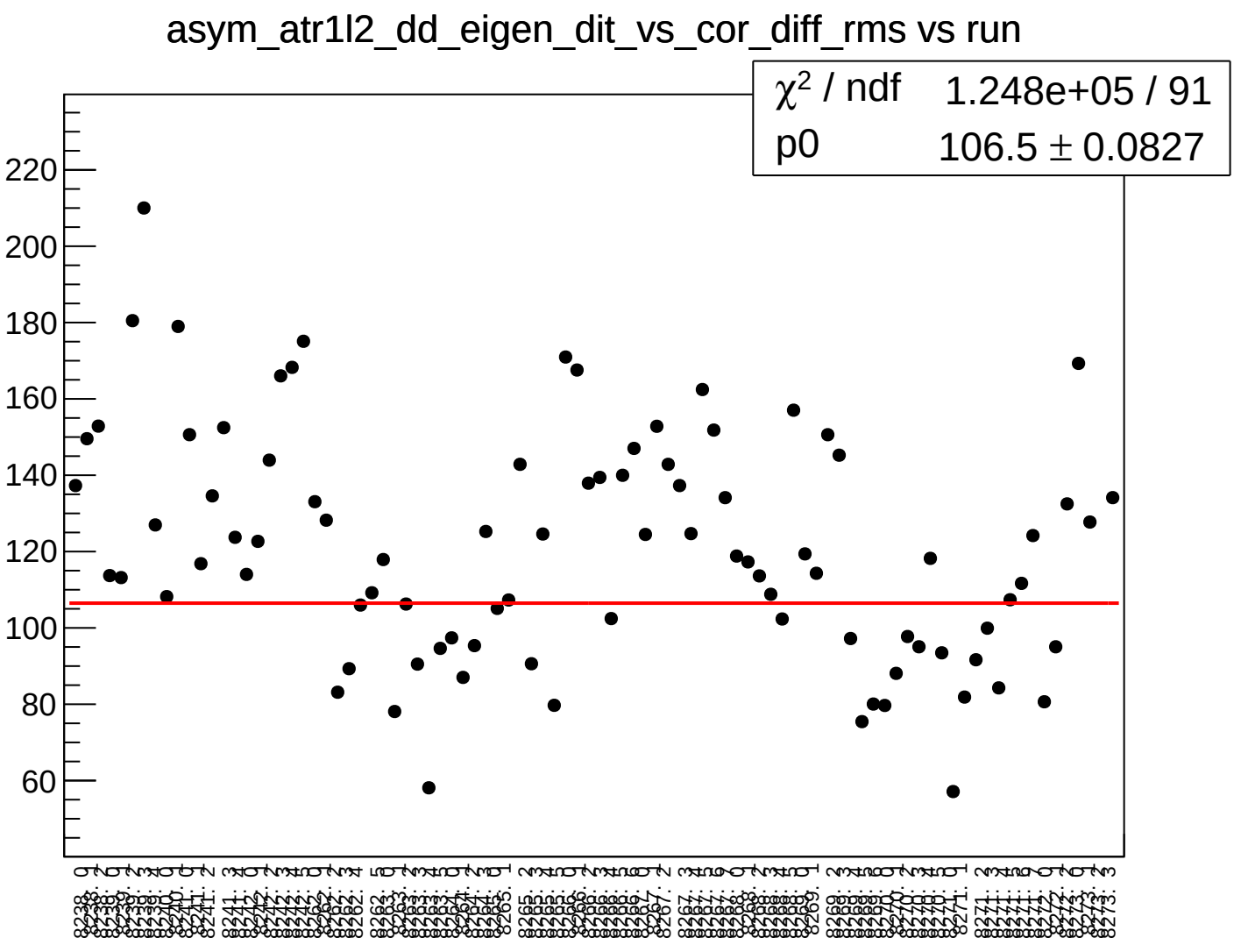

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 70.33 / 91
p0 1.001e−05 ± 4.453e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 92
Mean 24.48
Std Dev 50.86
1.5
1
0.5
0
−0.5
−1
−1.5
−2

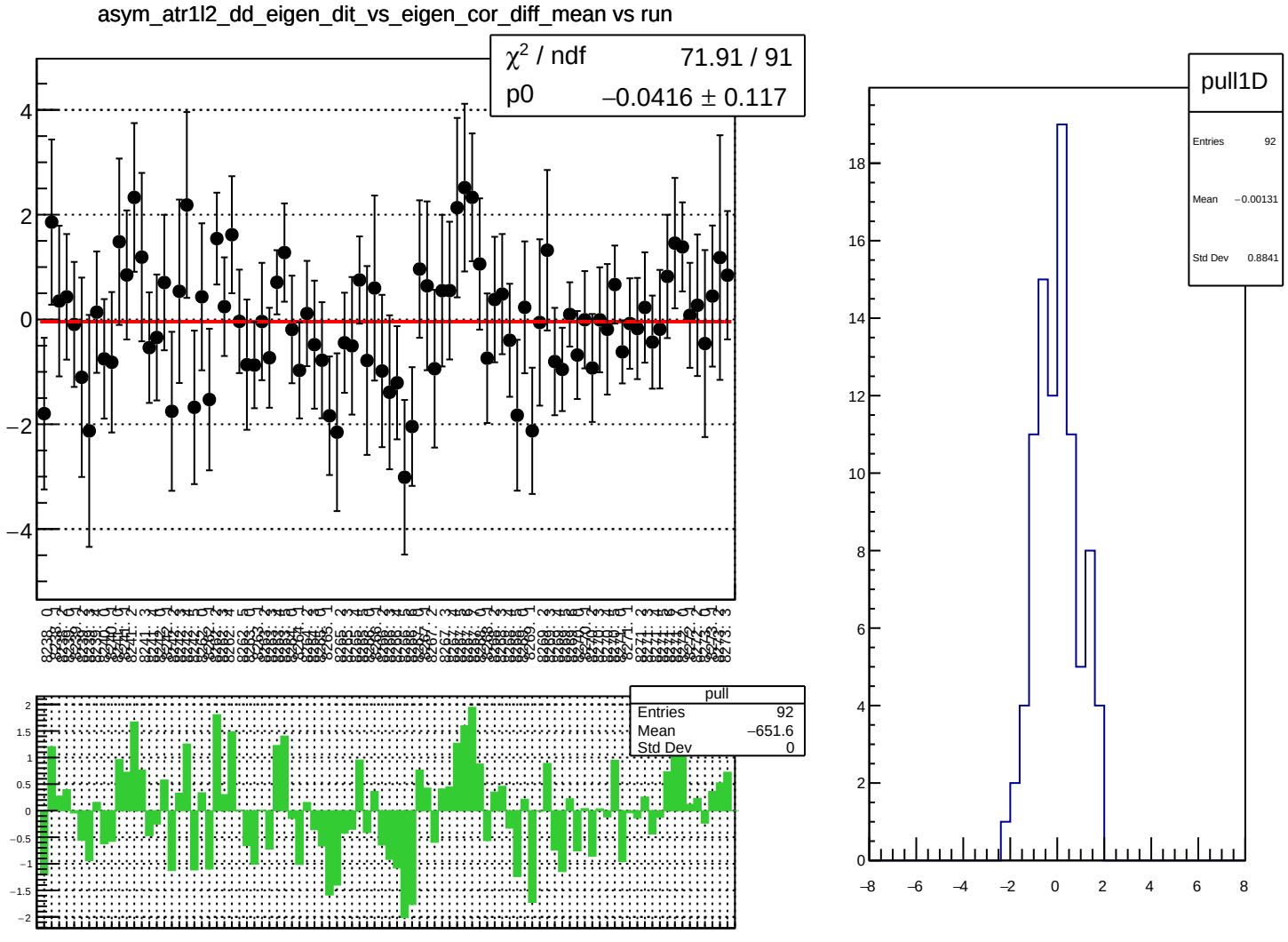

pull1D
Entries 92
Mean −0.04203
Std Dev 0.8733
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

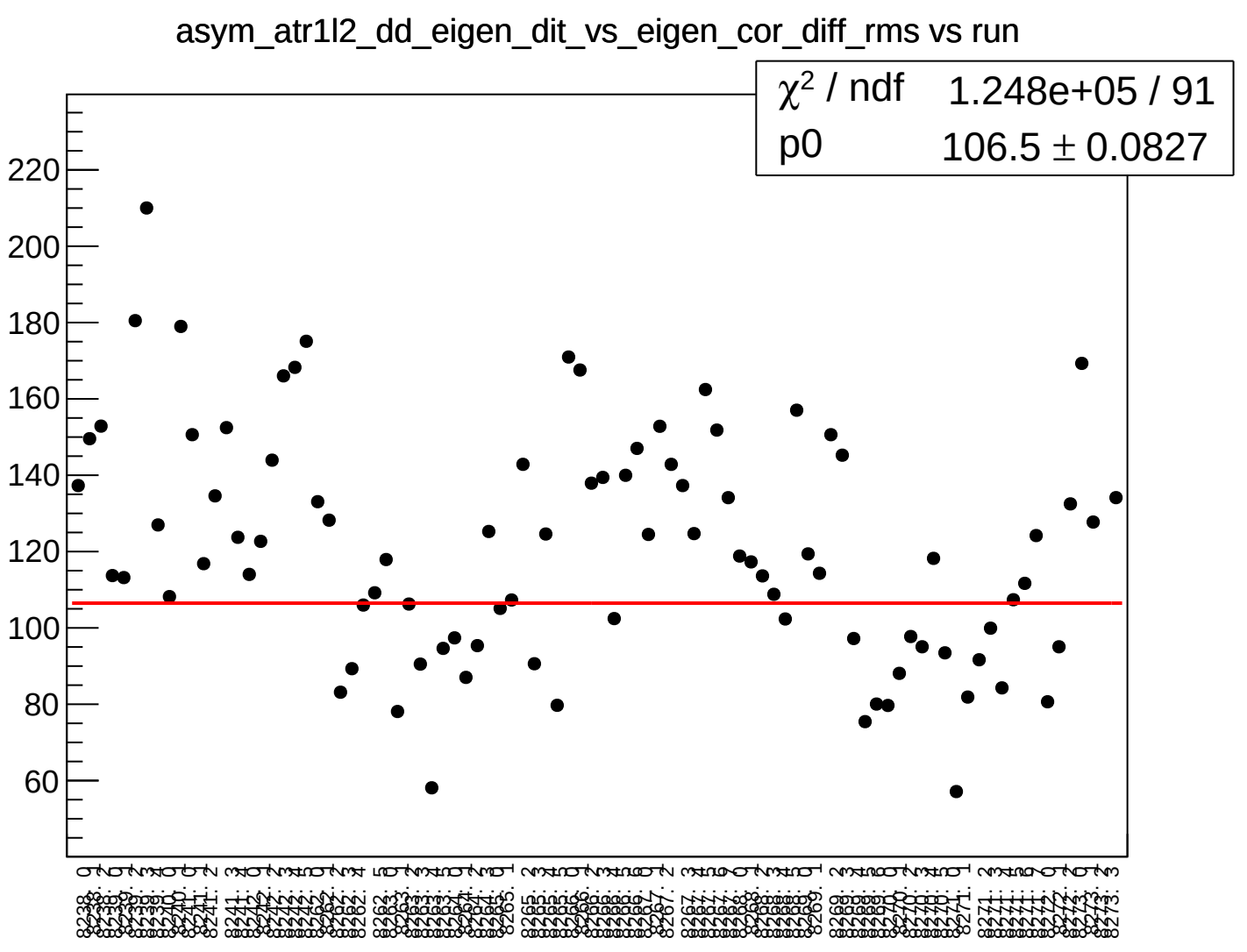

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.734e+05 / 91
p0 0.003994 ± 3.149e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

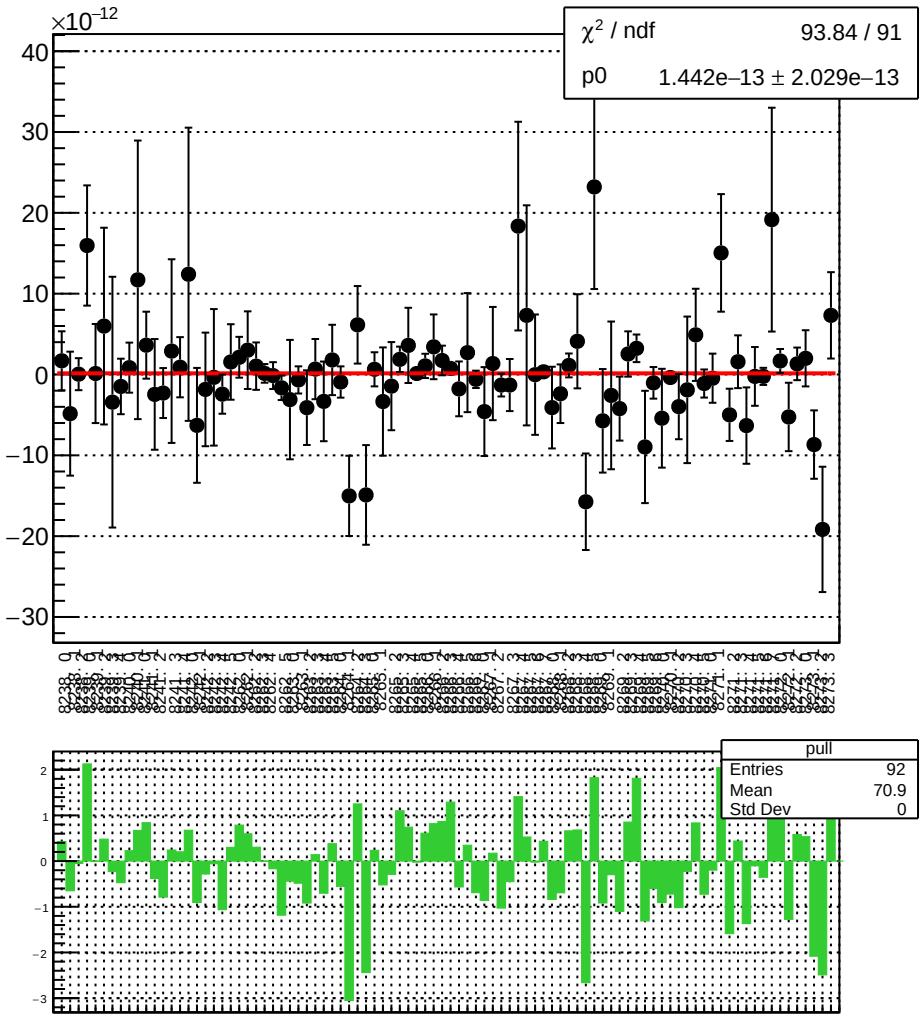

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.91 / 91
p0 −0.0416 ± 0.117
pull
Entries 92
Mean −651.6
Std Dev 0

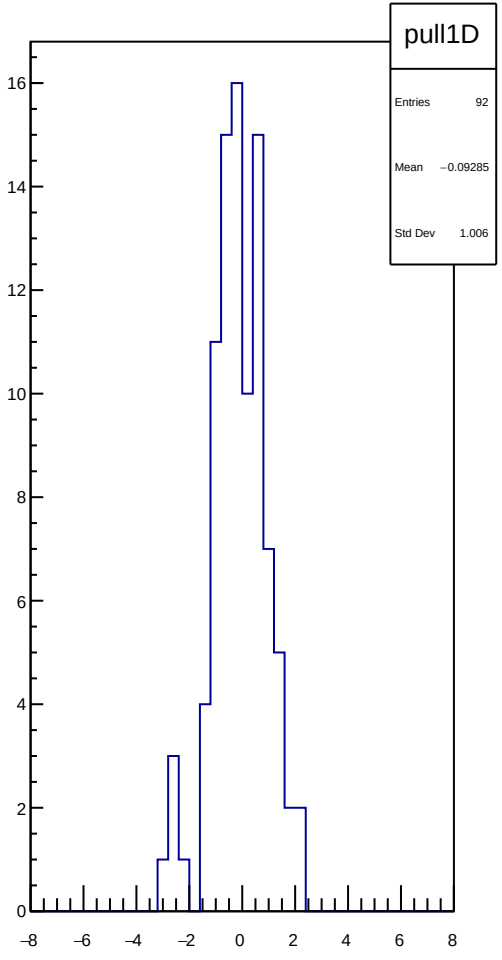

pull1D
Entries 92
Mean −0.00131
Std Dev 0.8841

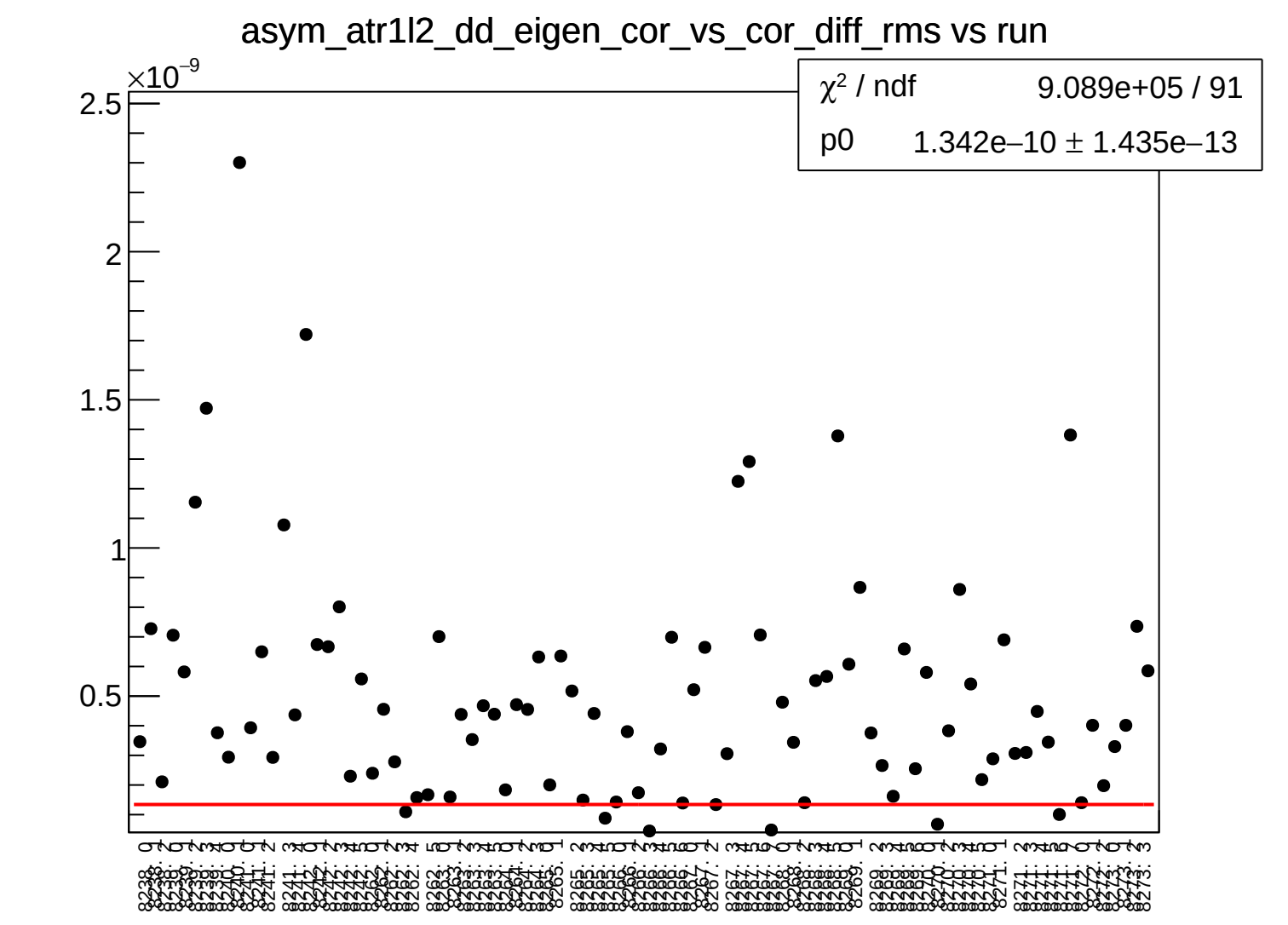

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.248e+05 / 91
p0 106.5 ± 0.0827
220
200
180
160
140
120
100
80
60

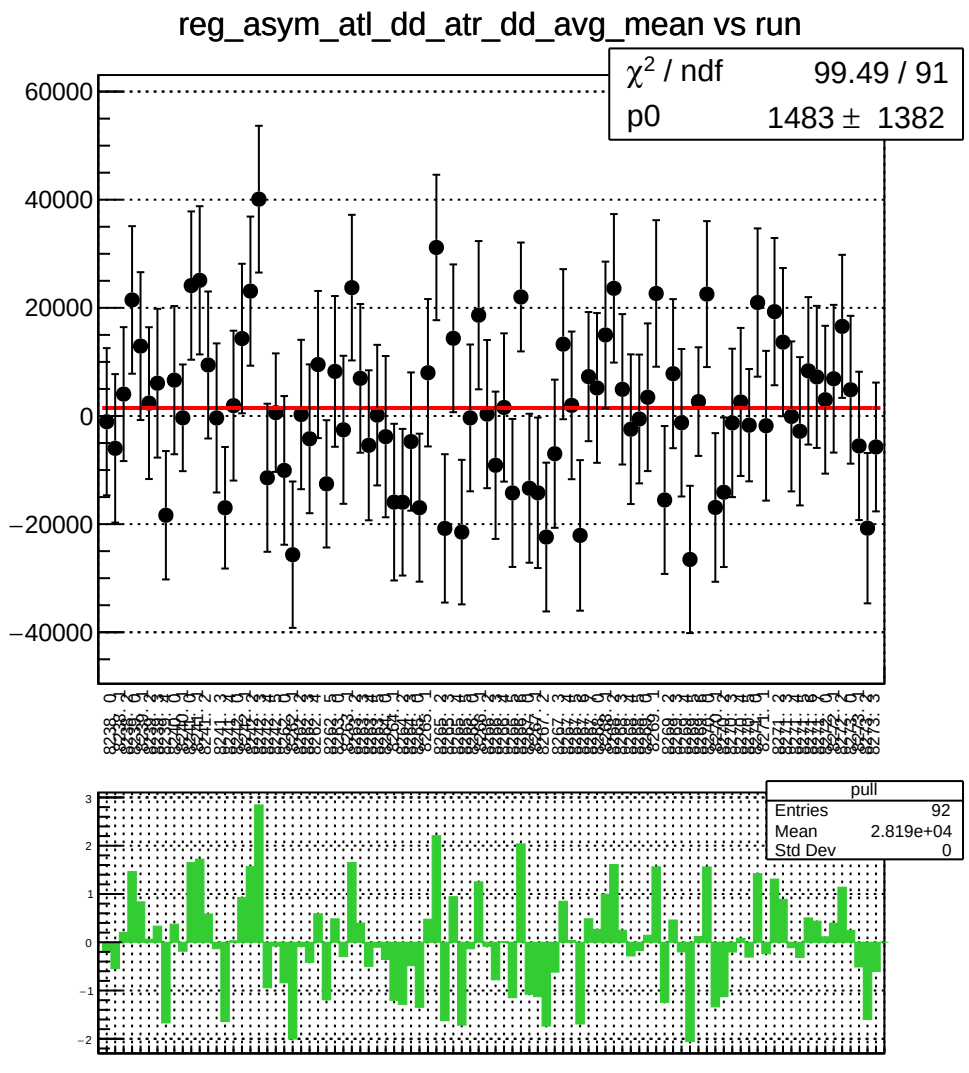

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.91 / 91
p0 −0.0416 ± 0.117
pull
Entries 92
Mean −651.6
Std Dev 0
pull1D
Entries 92
Mean −0.00131
Std Dev 0.8841

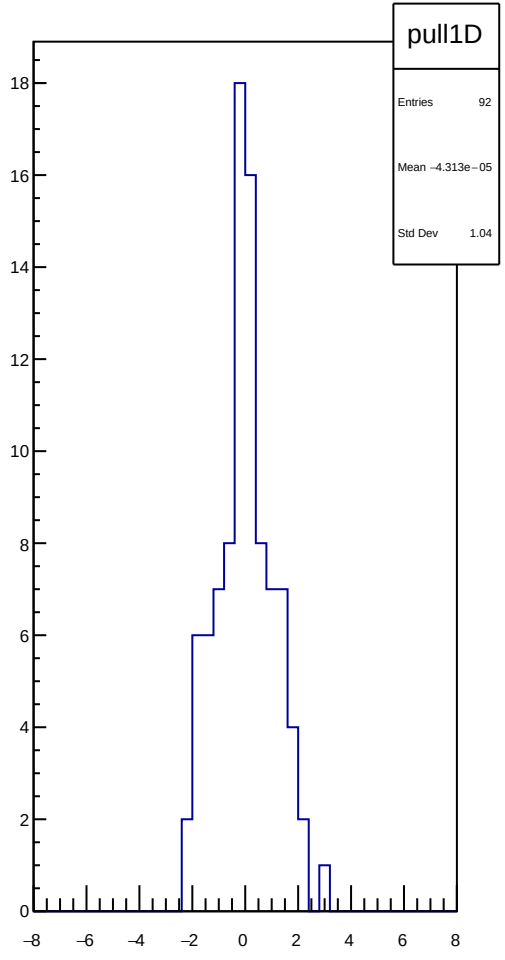

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.248e+05 / 91
p0 106.5 ± 0.0827
220
200
180
160
140
120
100
80
60

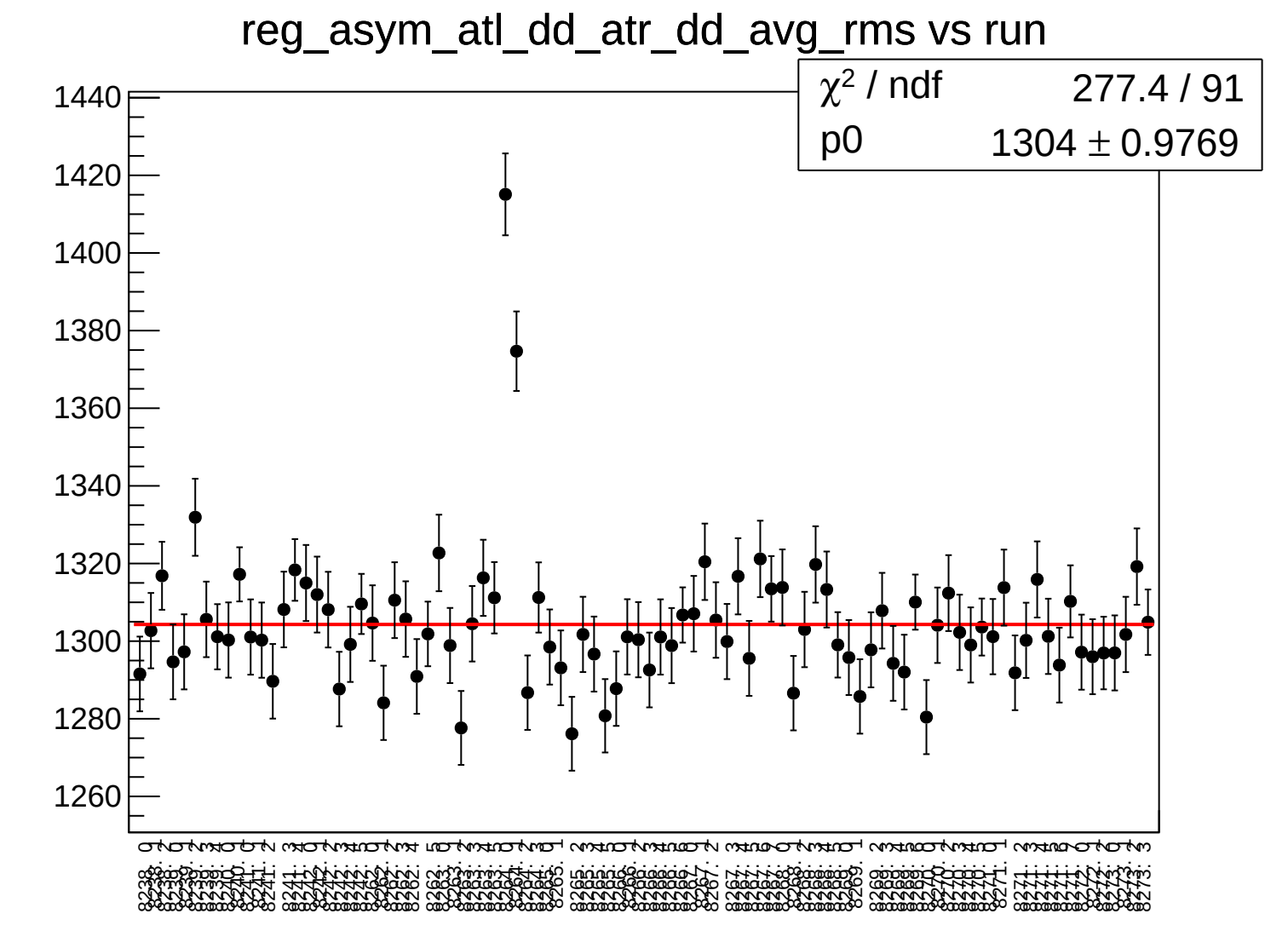

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.84 / 91
p0 1.442e−13 ± 2.029e−13
pull
Entries 92
Mean 70.9
Std Dev 0

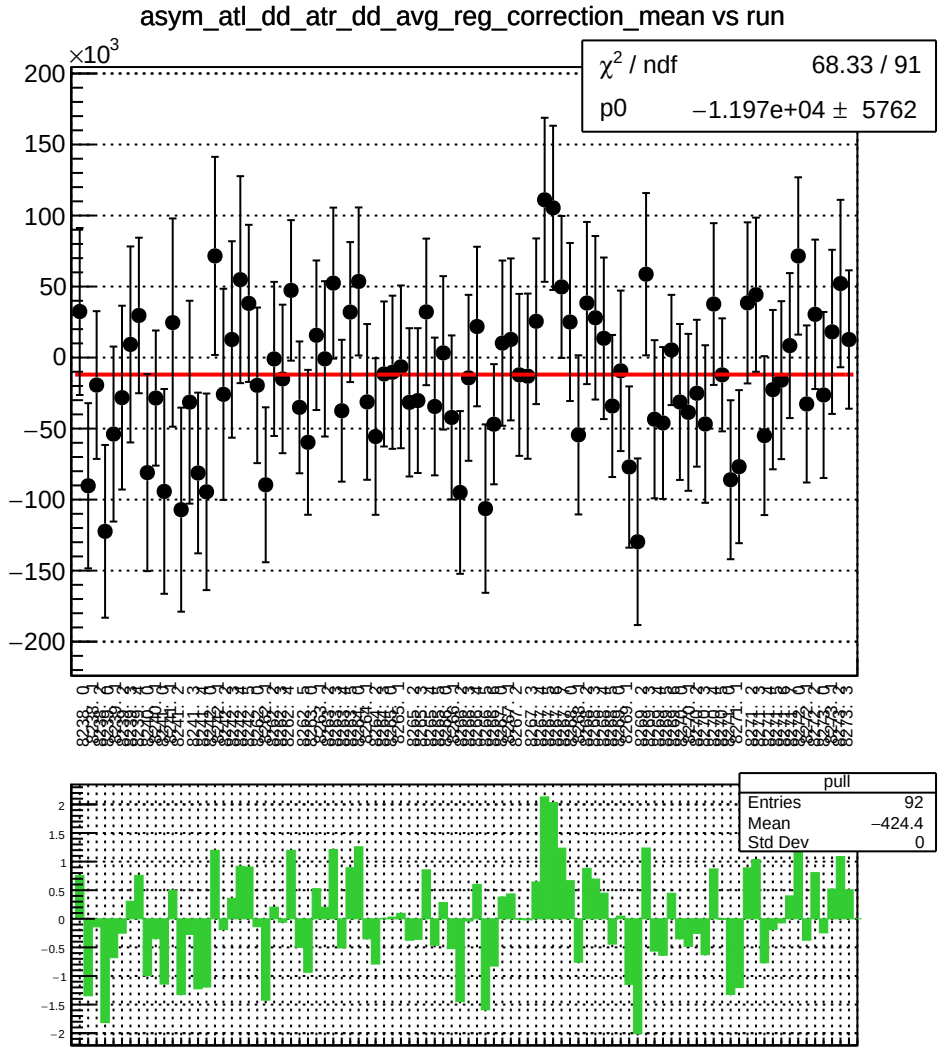

pull1D
Entries 92
Mean −0.09285
Std Dev 1.006

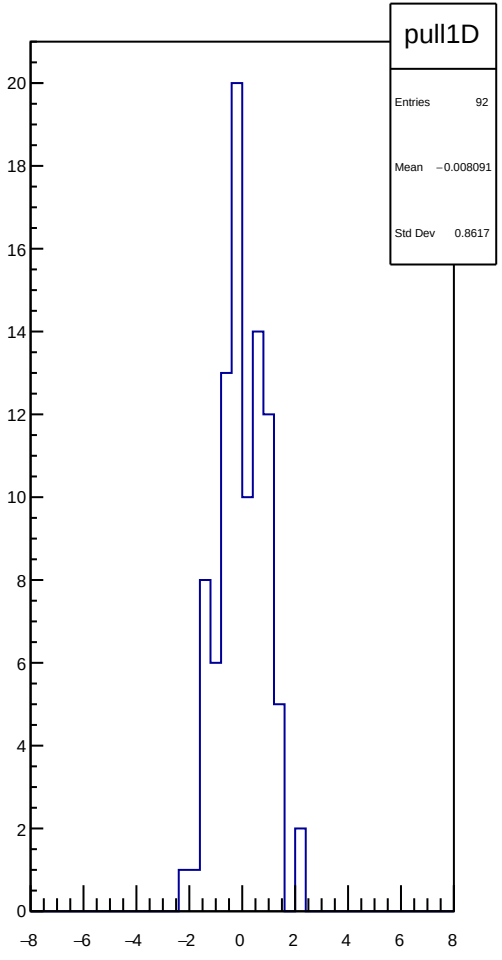

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 9.089e+05 / 91
p0 1.342e−10 ± 1.435e−13

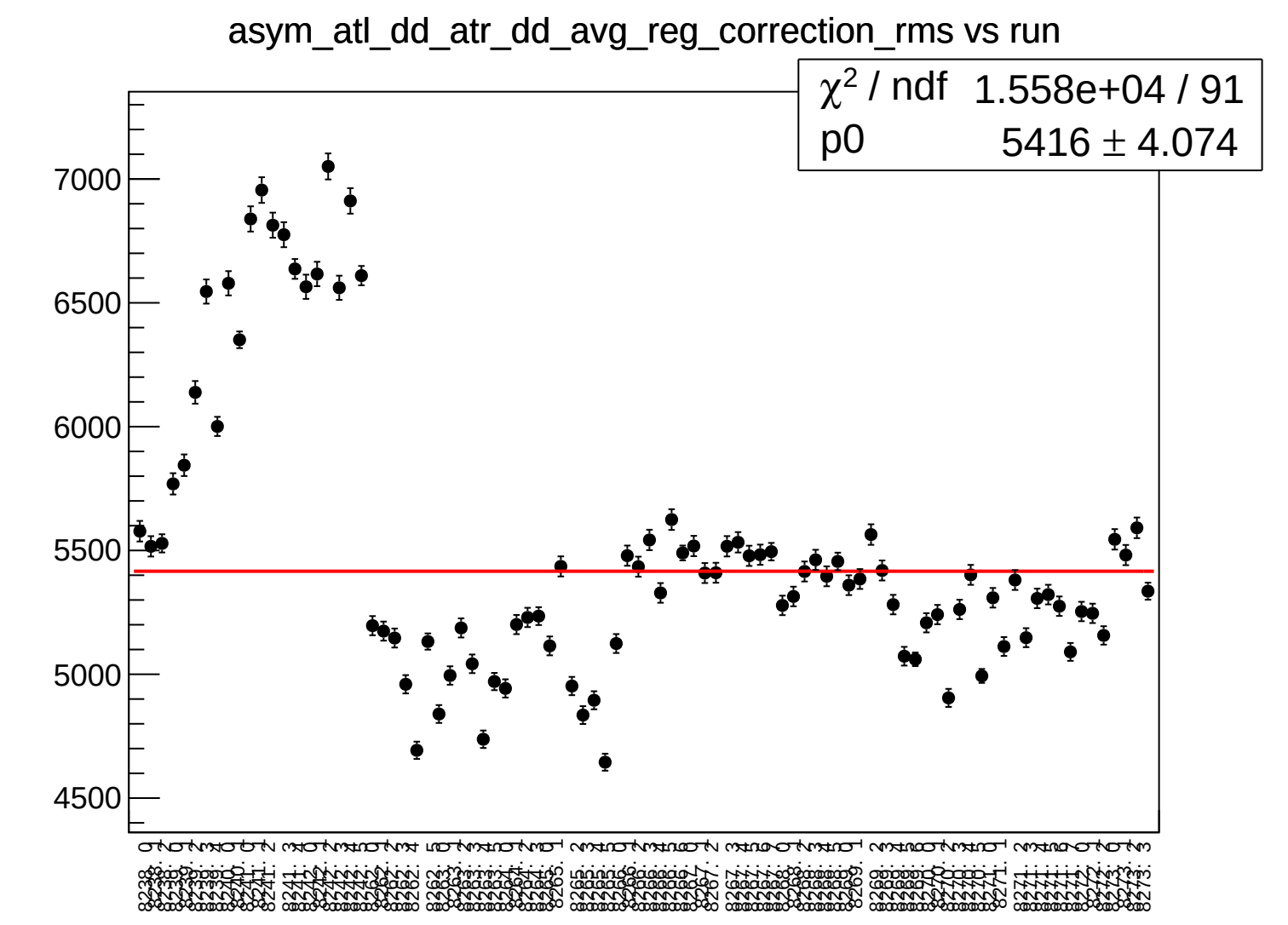

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 99.49 / 91
p0 1483 ± 1382
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 2.819e+04
Std Dev 0
3
2
1
0
−1
−2

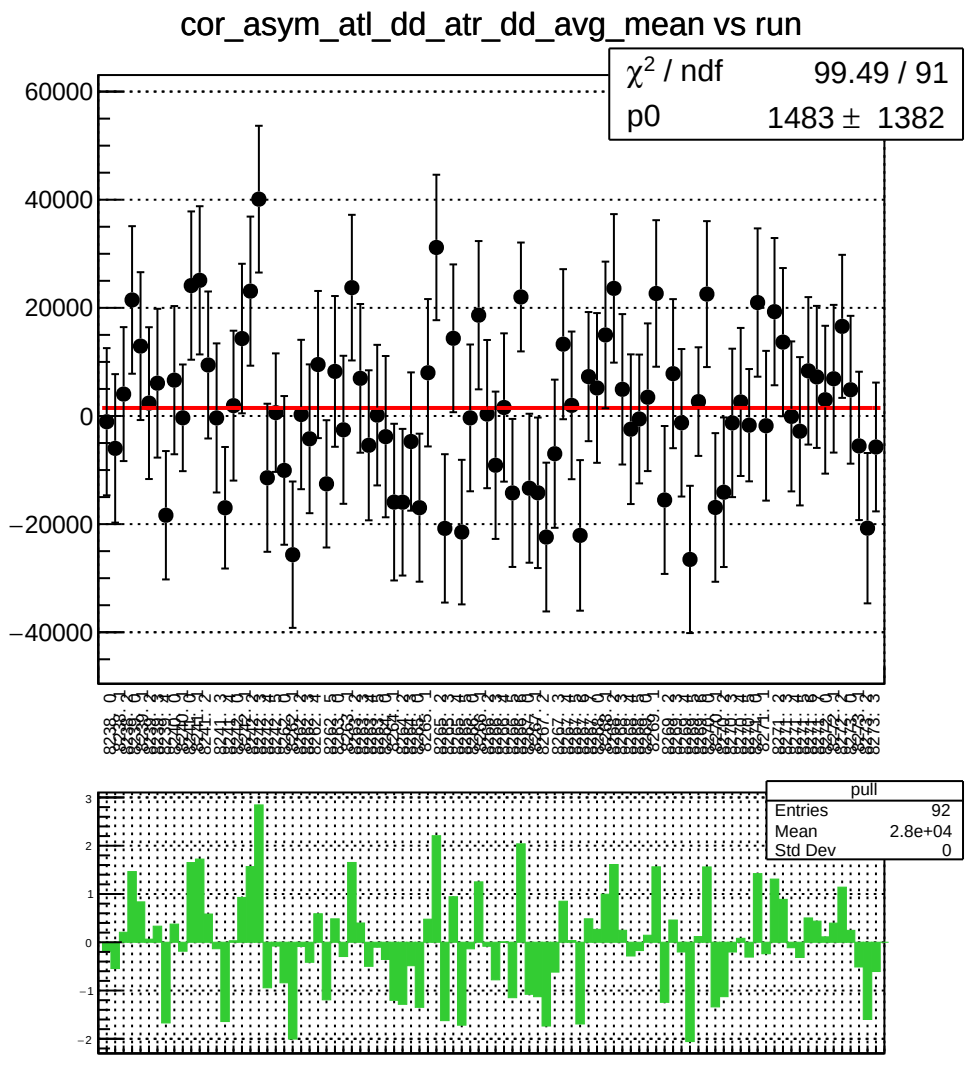

pull1D
Entries 92
Mean −4.313e−05
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

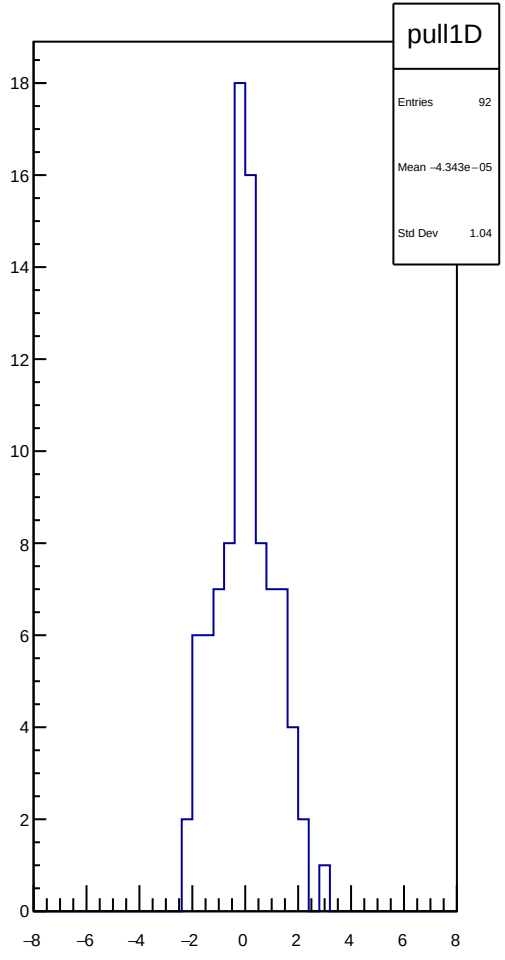

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 277.4 / 91
p0 1304 ± 0.9769
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

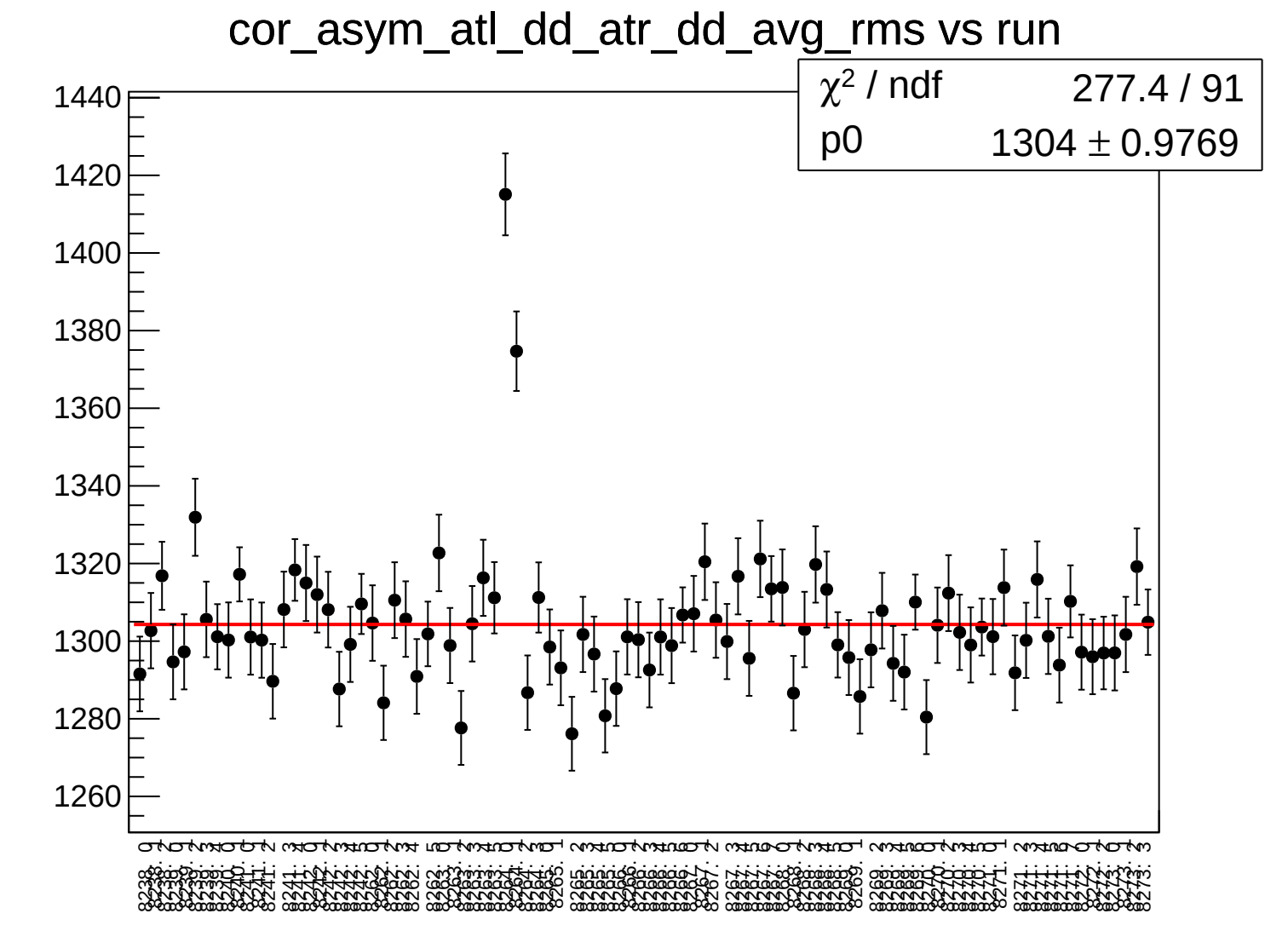

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 68.33 / 91
p0 −1.197e+04 ± 5762
pull
Entries 92
Mean −424.4
Std Dev 0

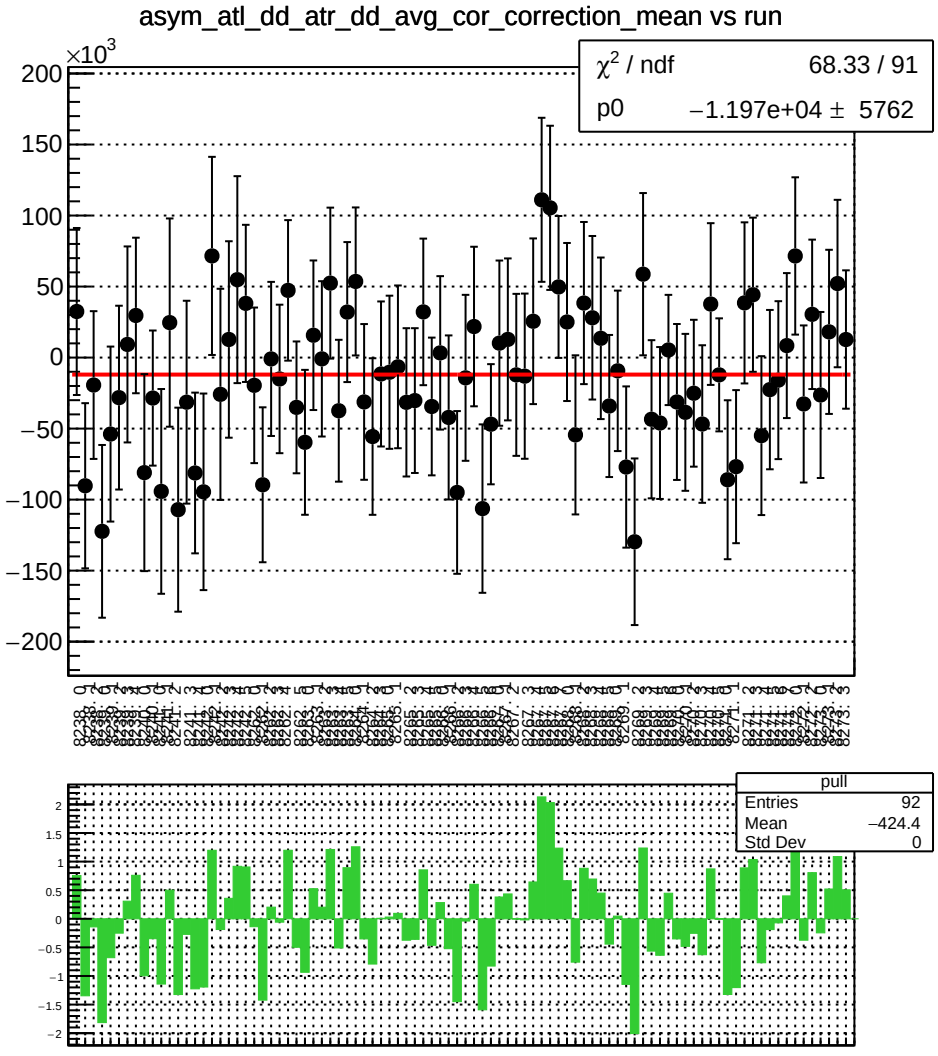

pull1D
Entries 92
Mean −0.008091
Std Dev 0.8617

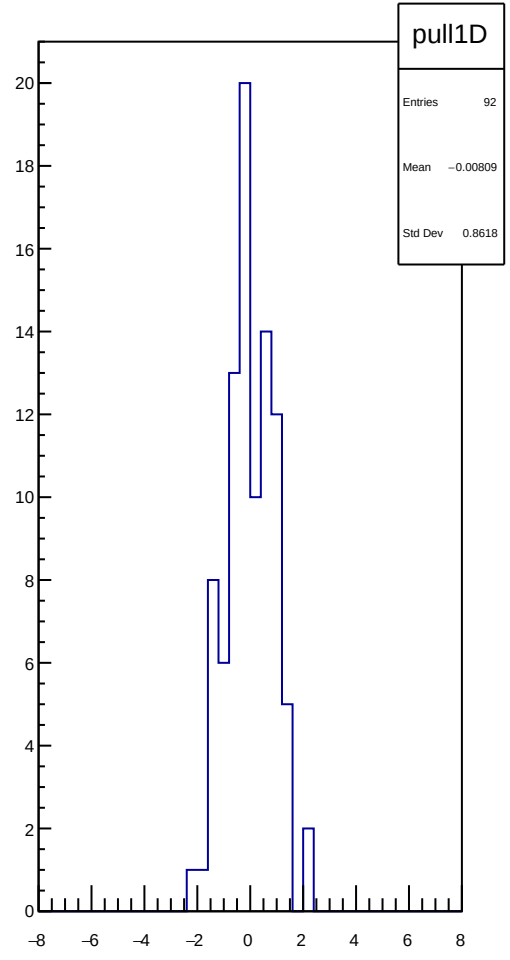

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.558e+04 / 91
p0 5416 ± 4.074
7000
6500
6000
5500
5000
4500

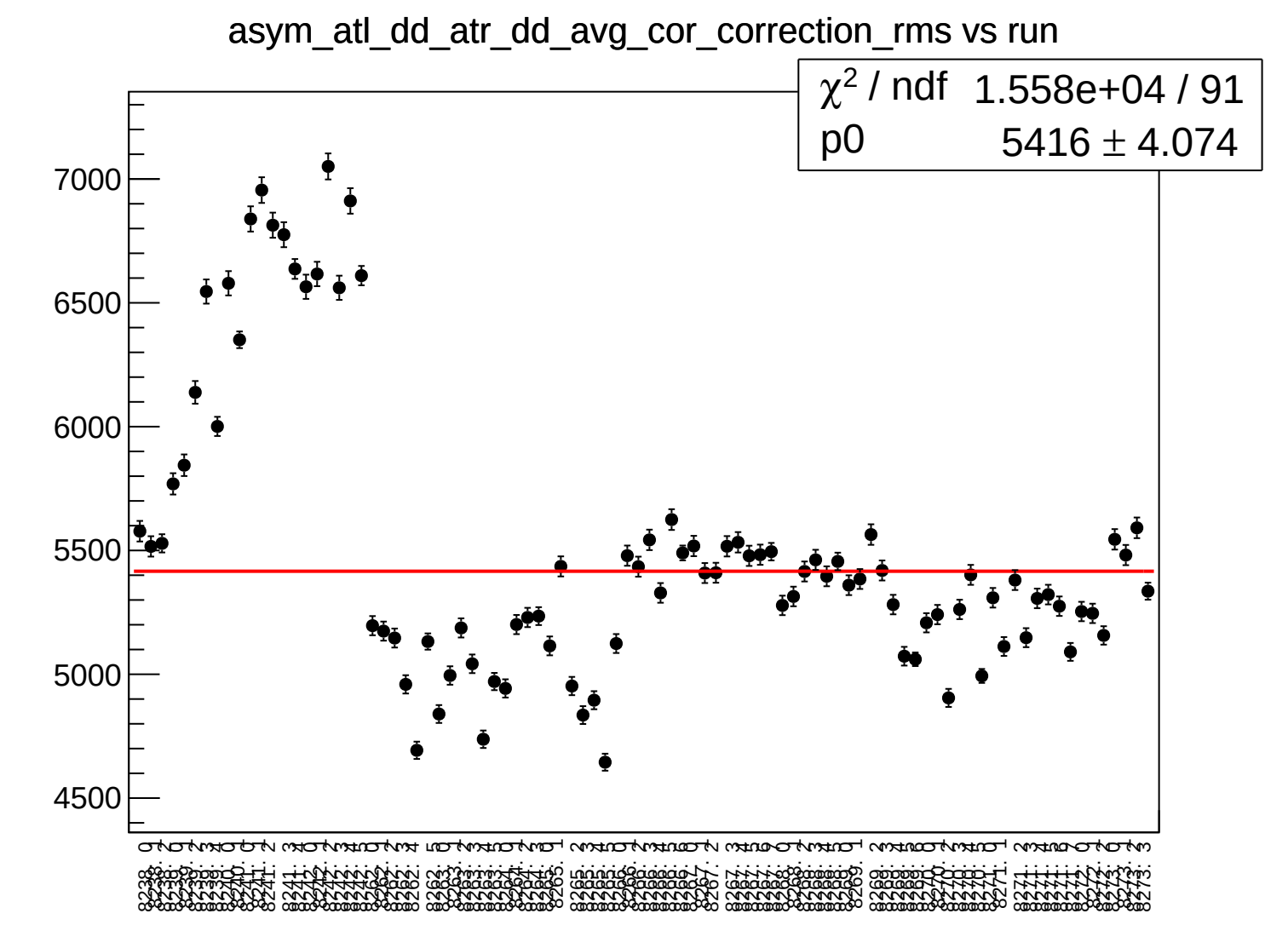

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 99.49 / 91
p0 1483 ± 1382
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 2.8e+04
Std Dev 0
3
2
1
0
−1
−2

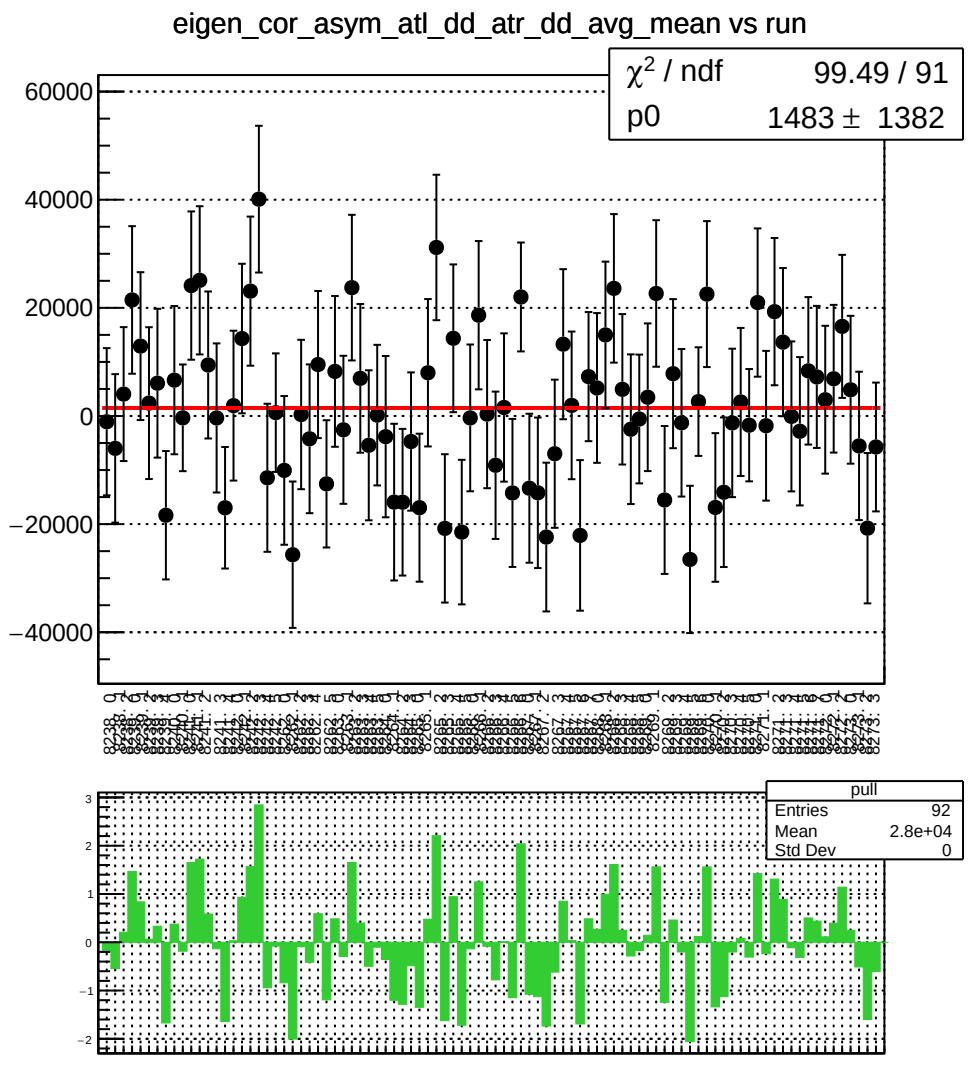

pull1D
Entries 92
Mean −4.343e−05
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

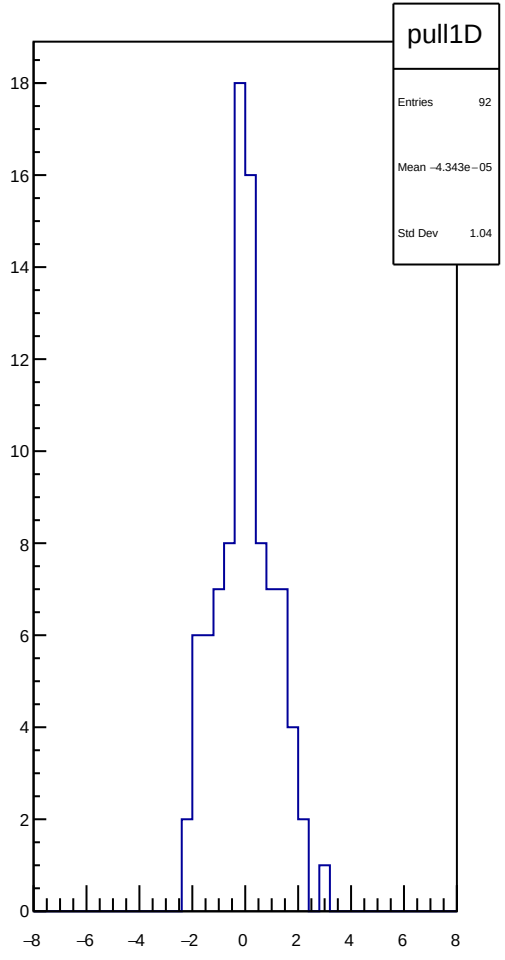

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 277.4 / 91
p0 1304 ± 0.9769
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

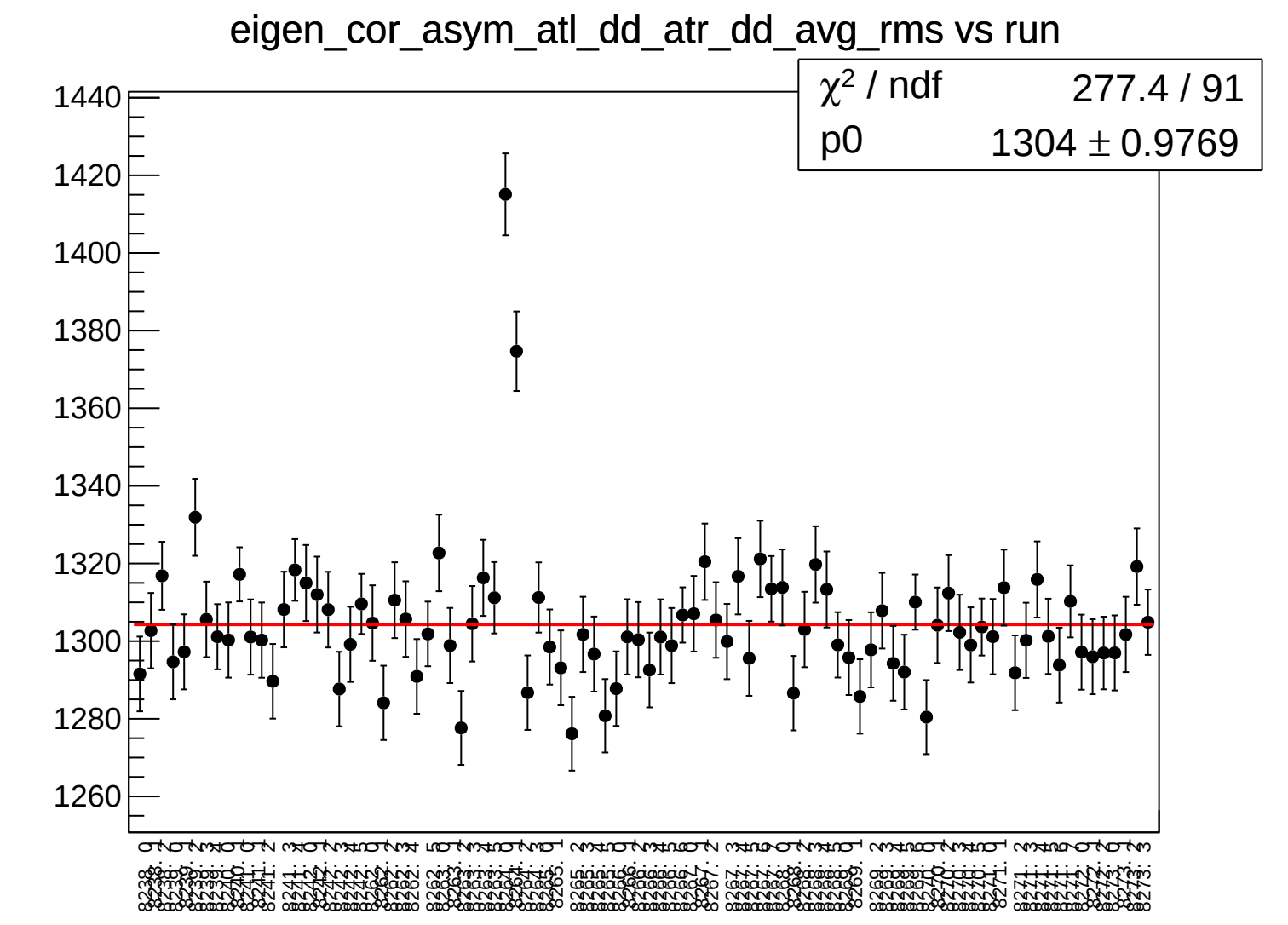

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 68.33 / 91
p0 −1.197e+04 ± 5762
pull
Entries 92
Mean −424.4
Std Dev 0

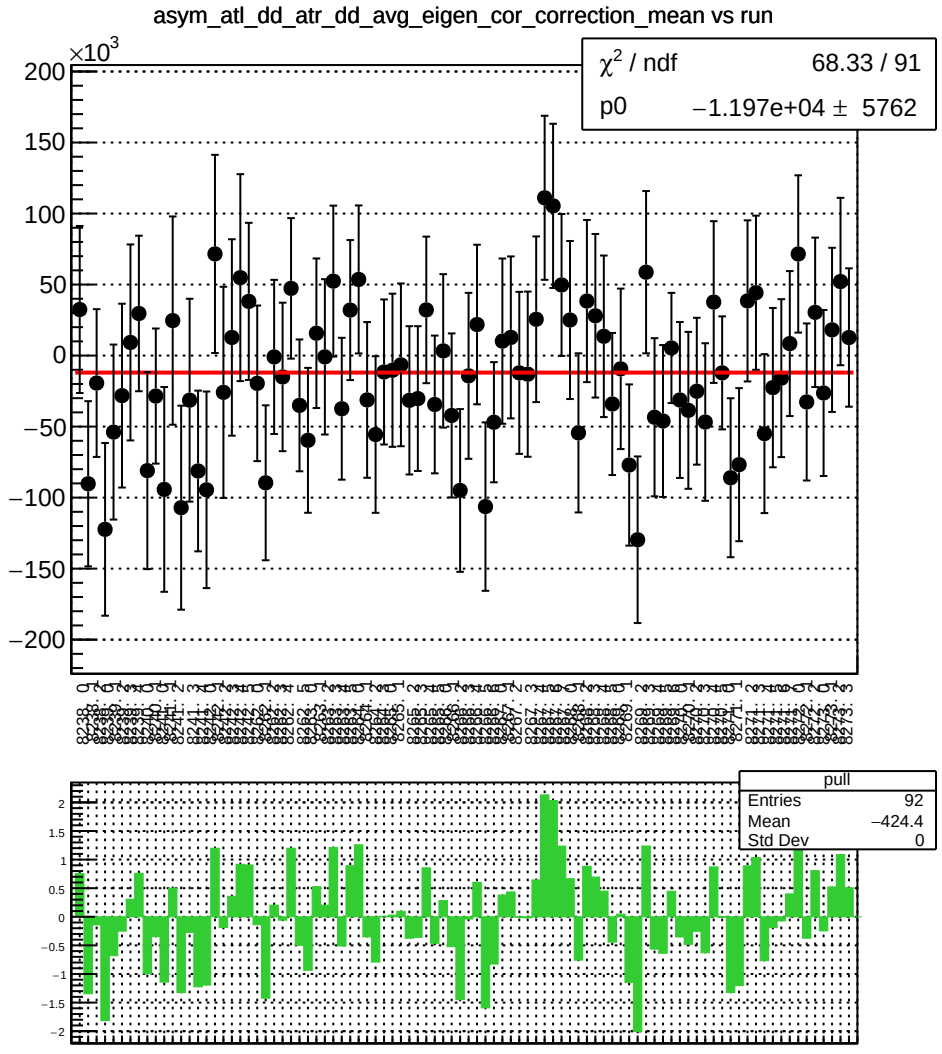

pull1D
Entries 92
Mean −0.00809
Std Dev 0.8618

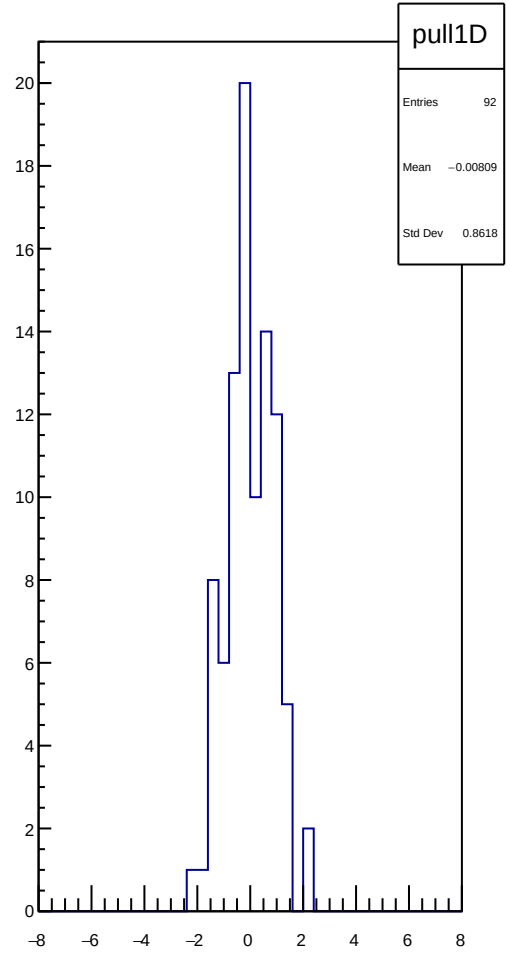

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.558e+04 / 91
p0 5416 ± 4.074
7000
6500
6000
5500
5000
4500

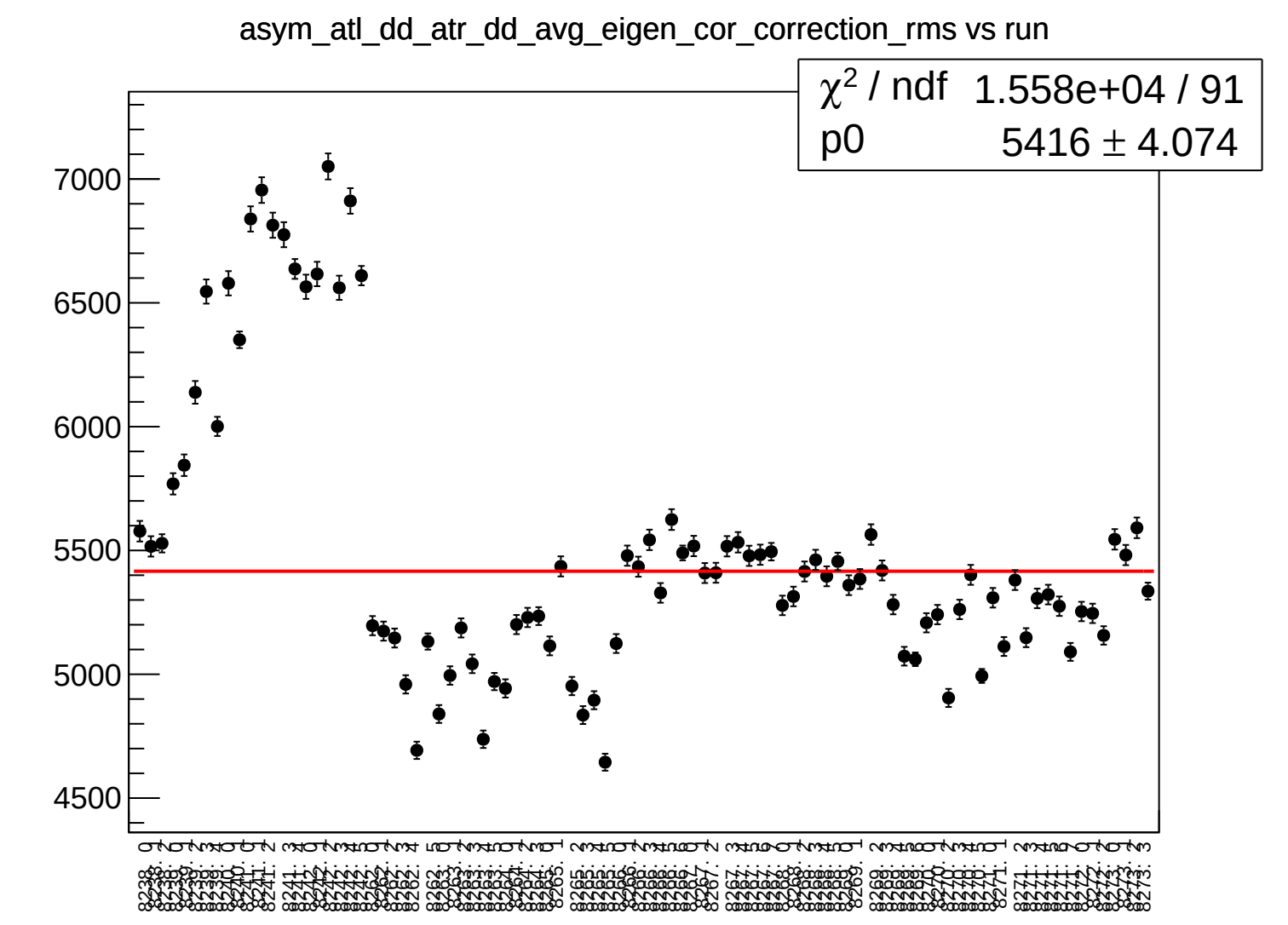

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 99.49 / 91
p0 1483 ± 1382
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 2.8e+04
Std Dev 0
3
2
1
0
−1
−2

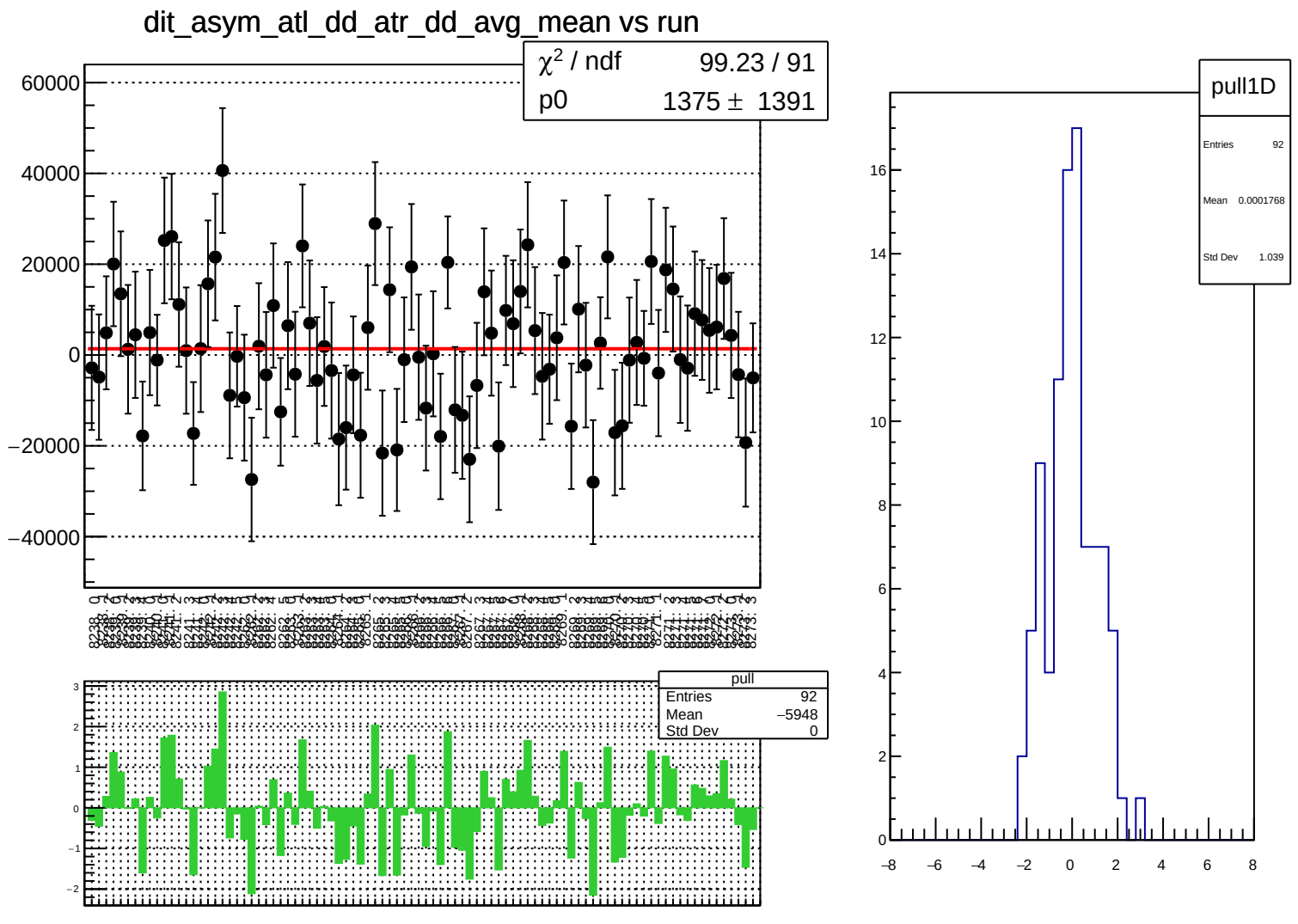

pull1D
Entries 92
Mean −4.343e−05
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

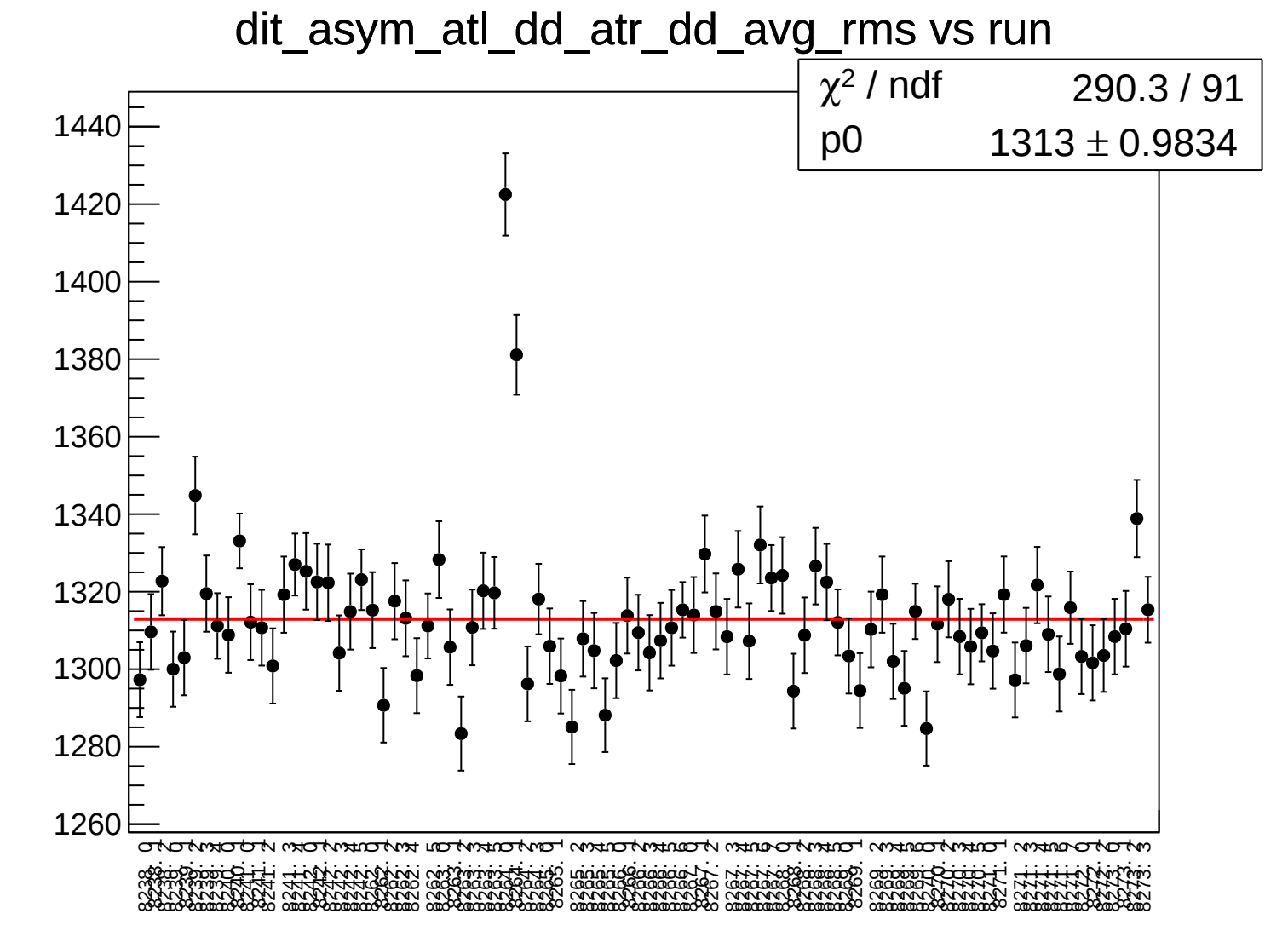

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 277.4 / 91
p0 1304 ± 0.9769
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

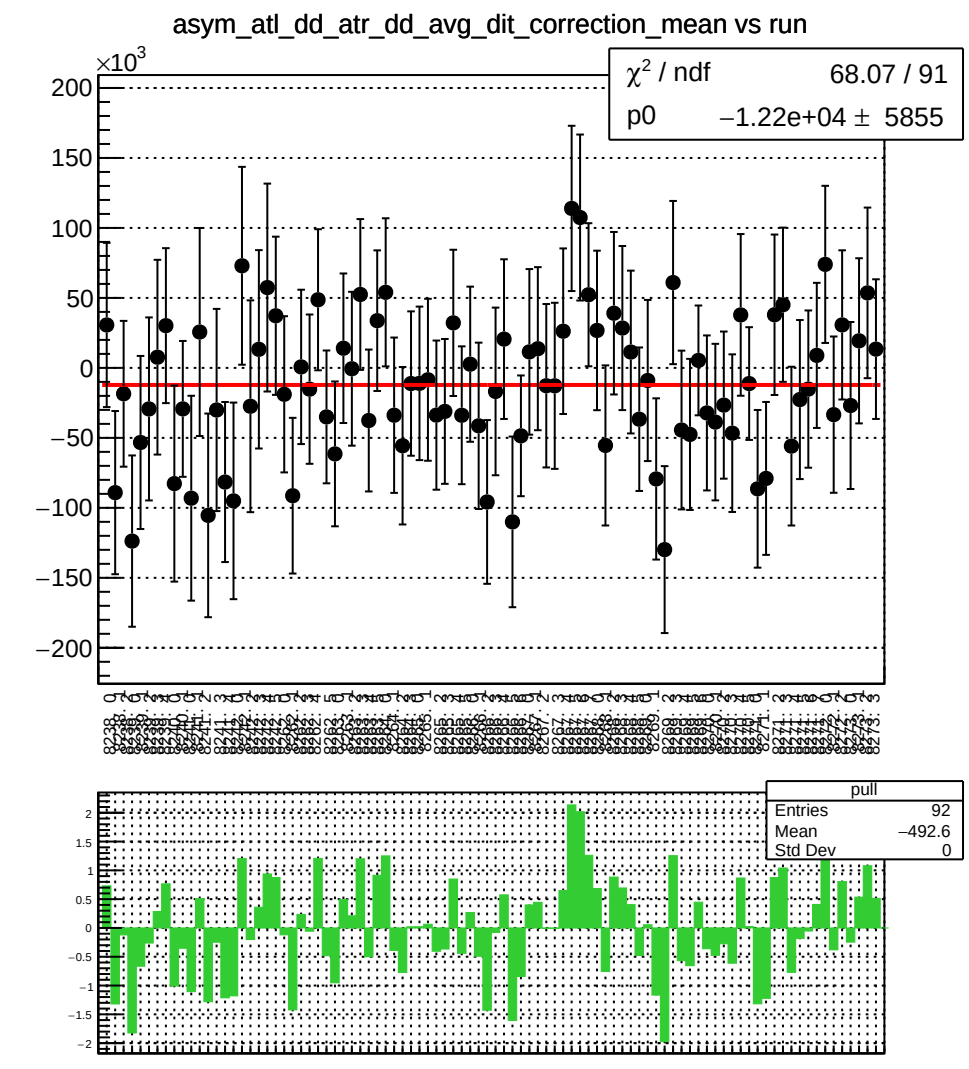

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 68.33 / 91
p0 −1.197e+04 ± 5762
pull
Entries 92
Mean −424.4
Std Dev 0

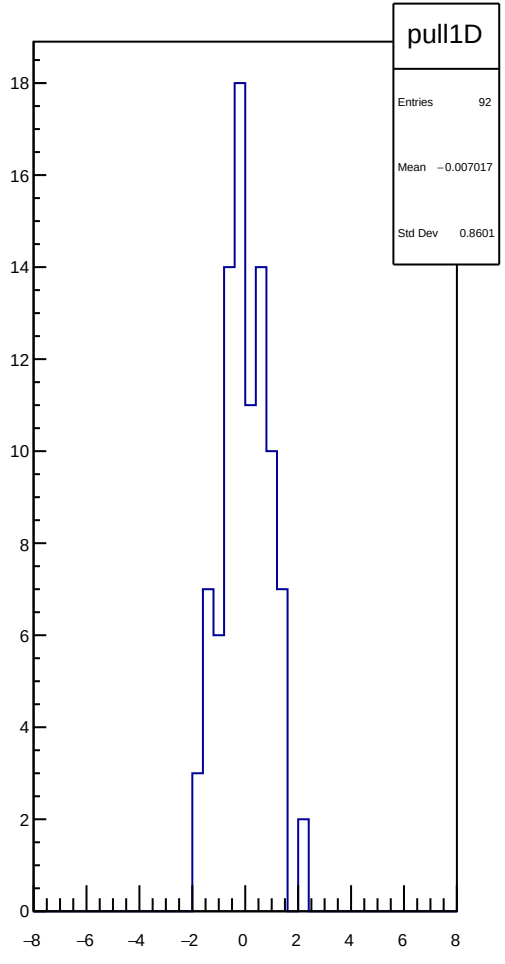

pull1D
Entries 92
Mean −0.00809
Std Dev 0.8618

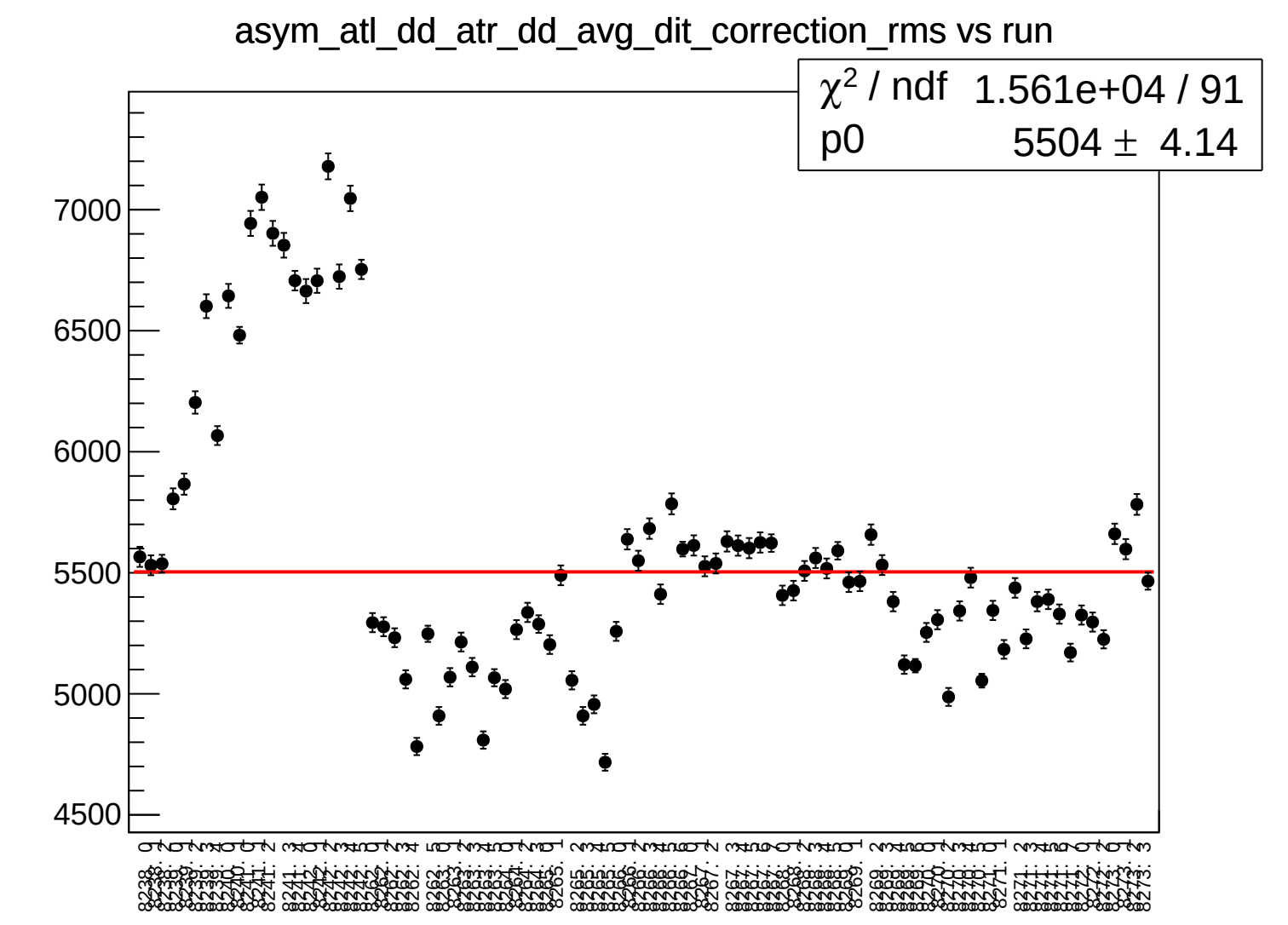

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 1.558e+04 / 91
p0 5416 ± 4.074
7000
6500
6000
5500
5000
4500

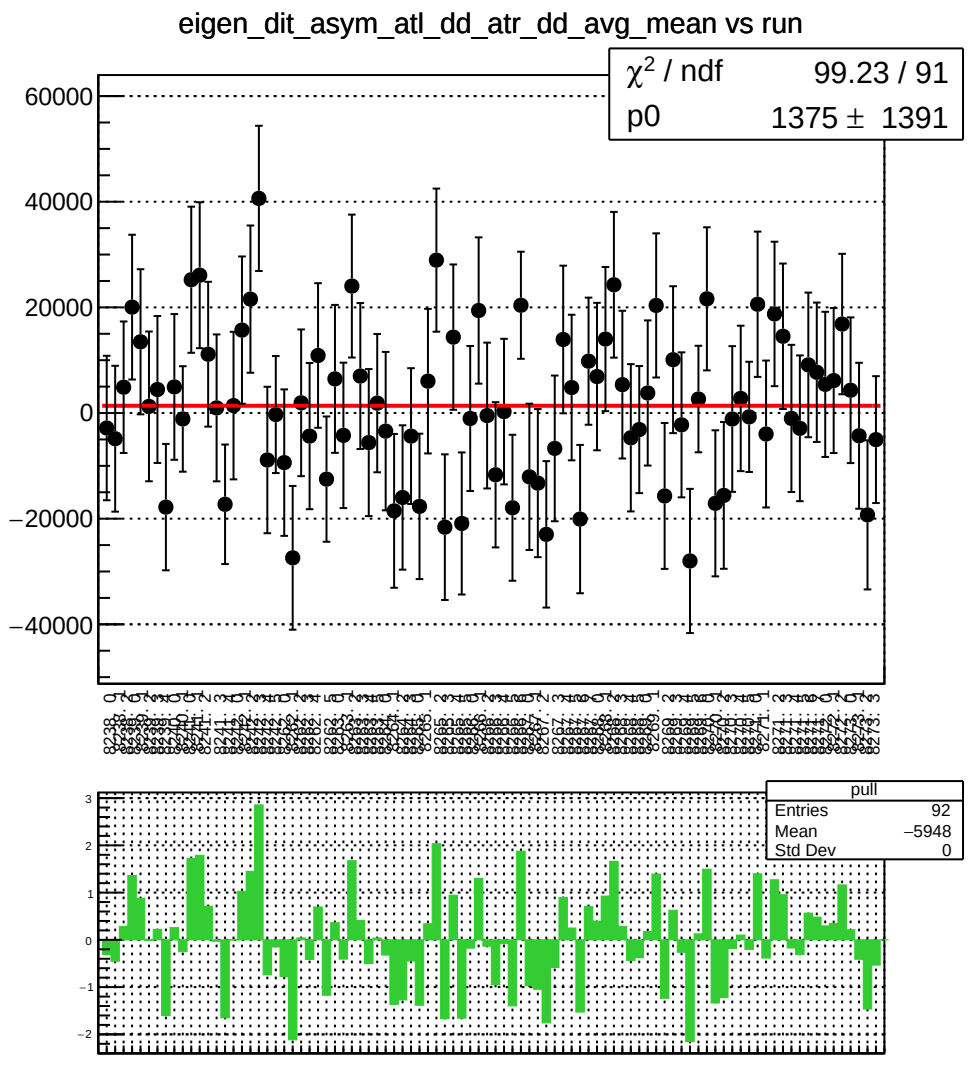

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 99.23 / 91
p0 1375 ± 1391
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −5948
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0001768
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

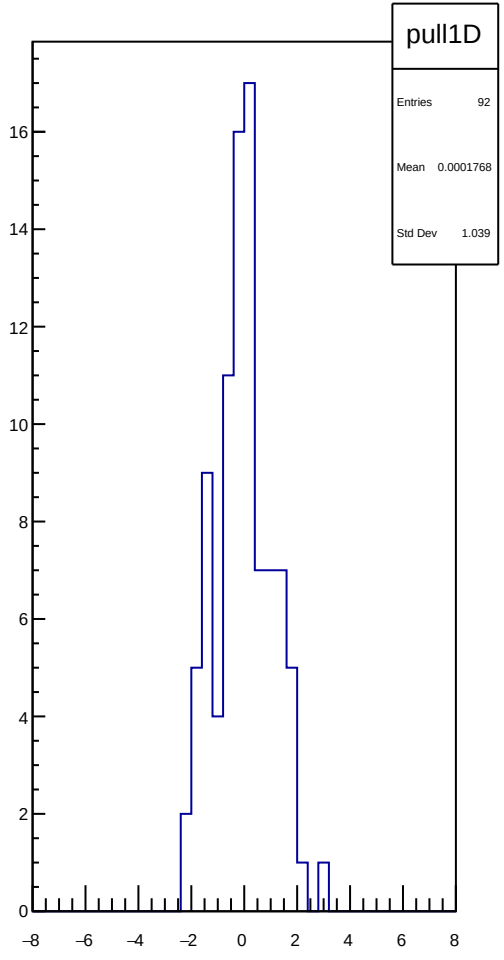

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 290.3 / 91
p0 1313 ± 0.9834
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

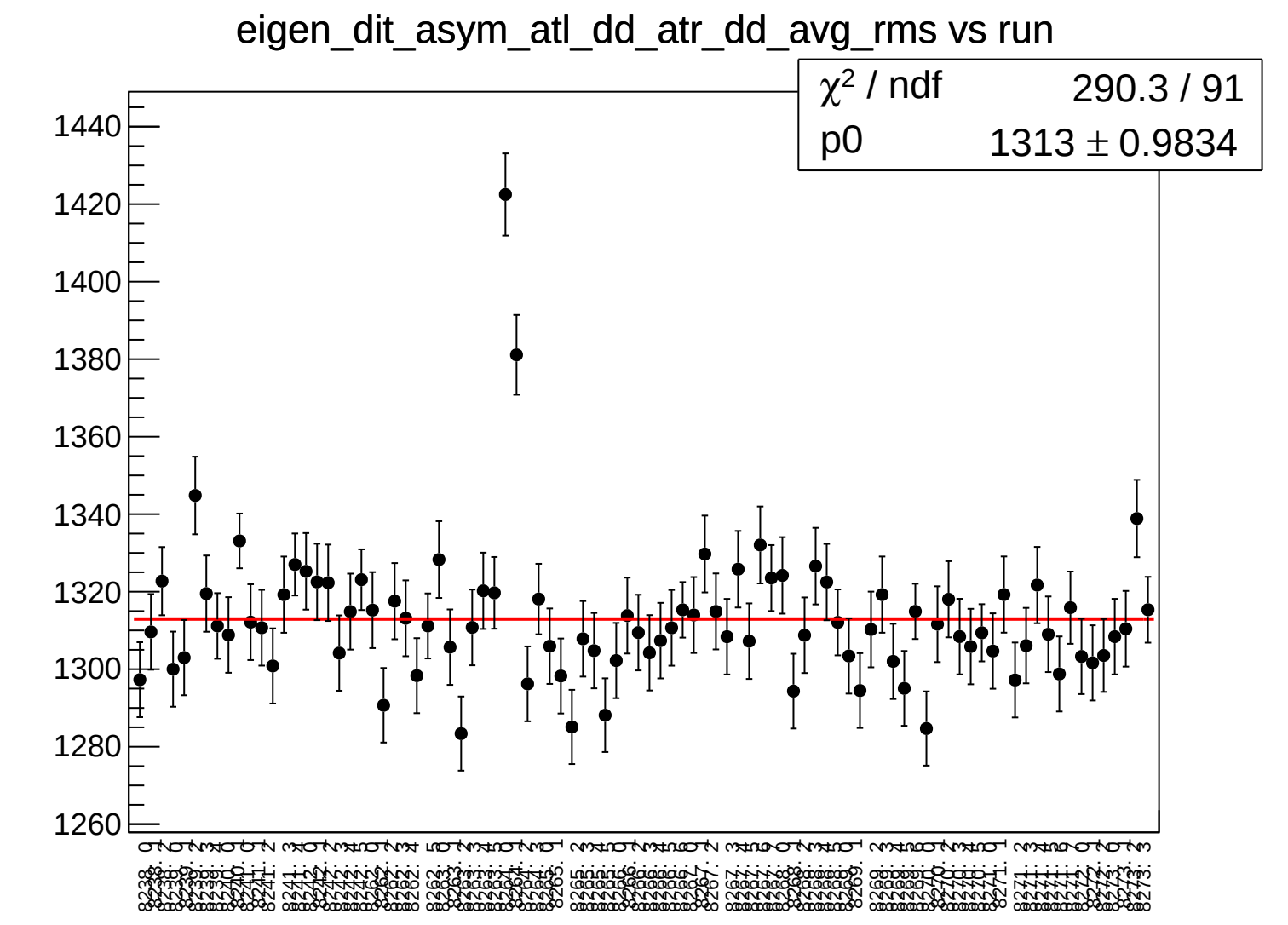

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 68.07 / 91
p0 −1.22e+04 ± 5855
pull
Entries 92
Mean −492.6
Std Dev 0

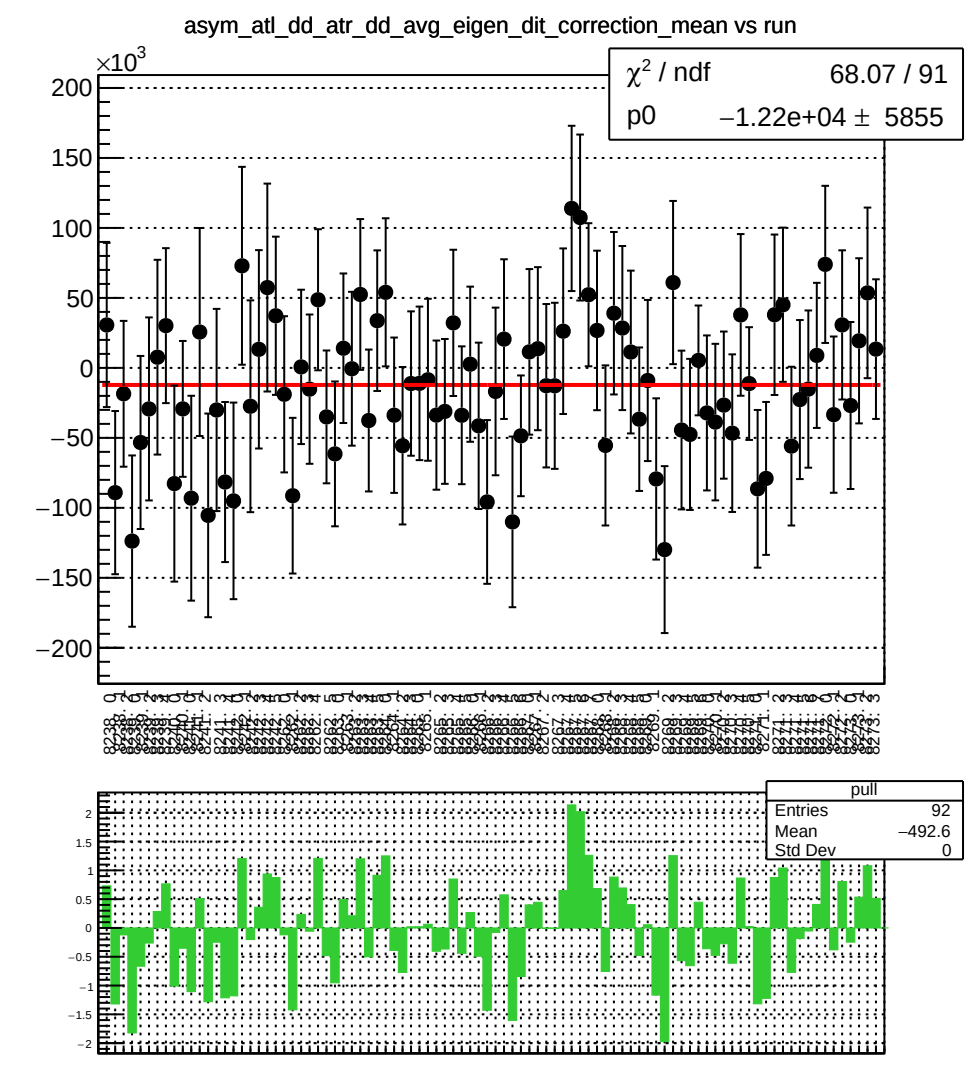

pull1D
Entries 92
Mean −0.007017
Std Dev 0.8601

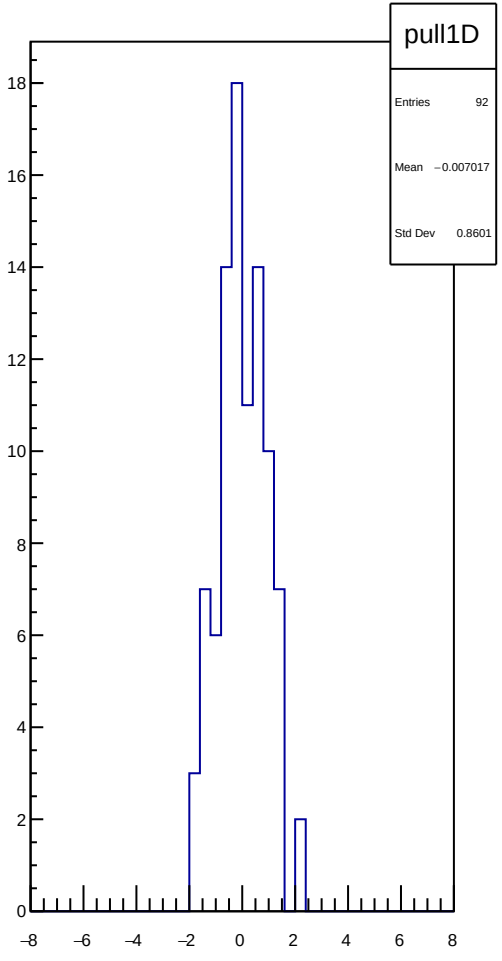

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.561e+04 / 91
p0 5504 ± 4.14
7000
6500
6000
5500
5000
4500

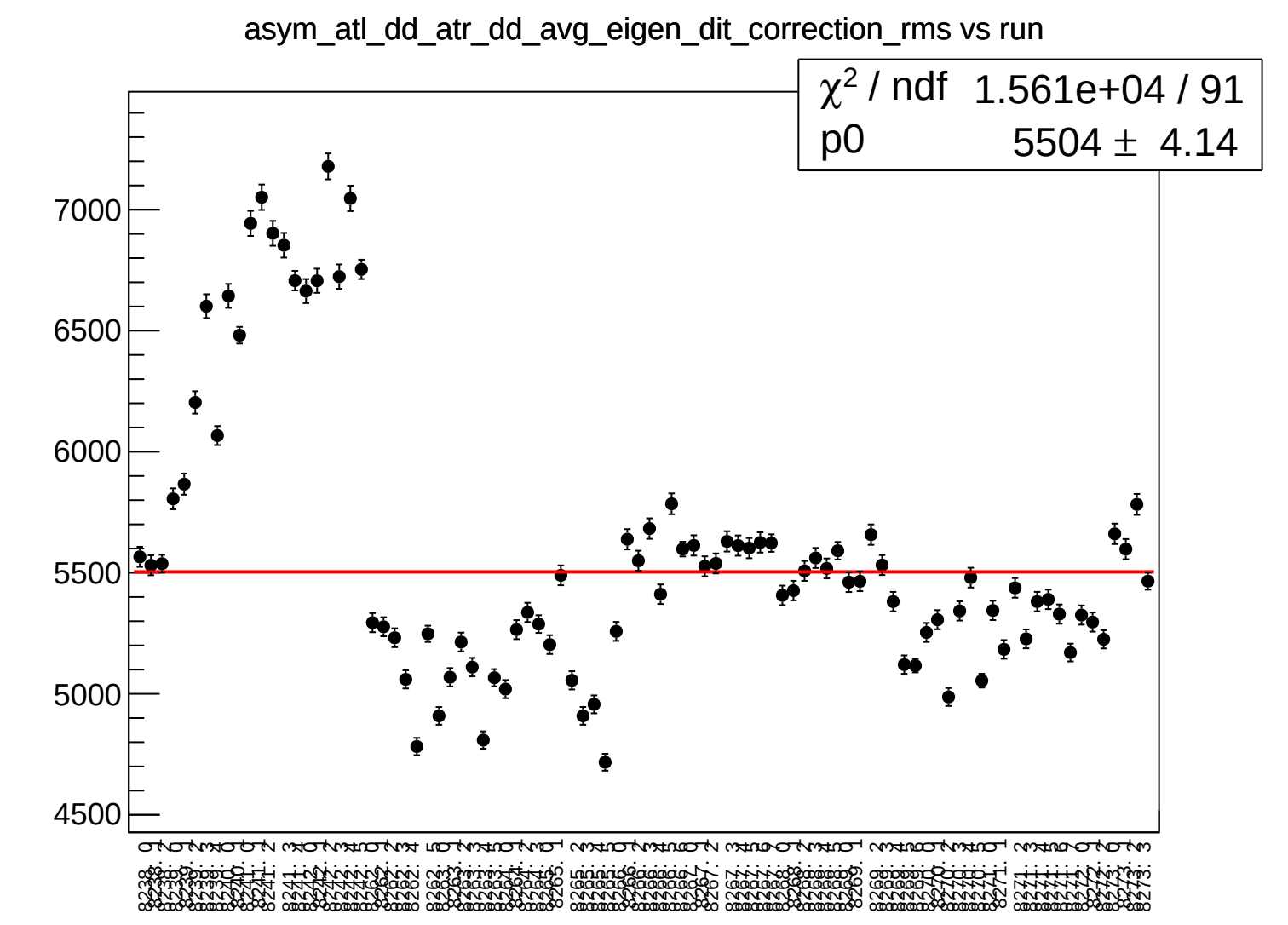

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 99.23 / 91
p0 1375 ± 1391
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −5948
Std Dev 0
3
2
1
0
−1
−2

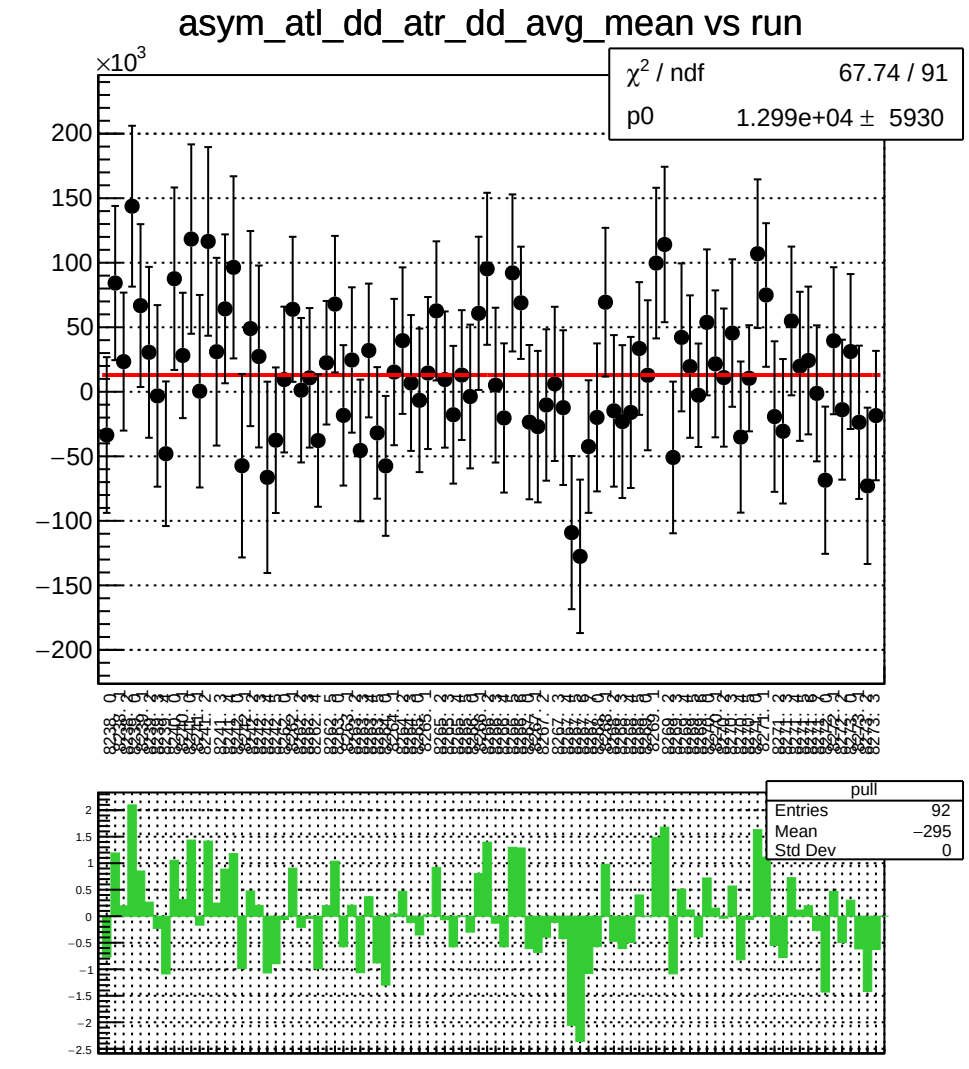

pull1D
Entries 92
Mean 0.0001768
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

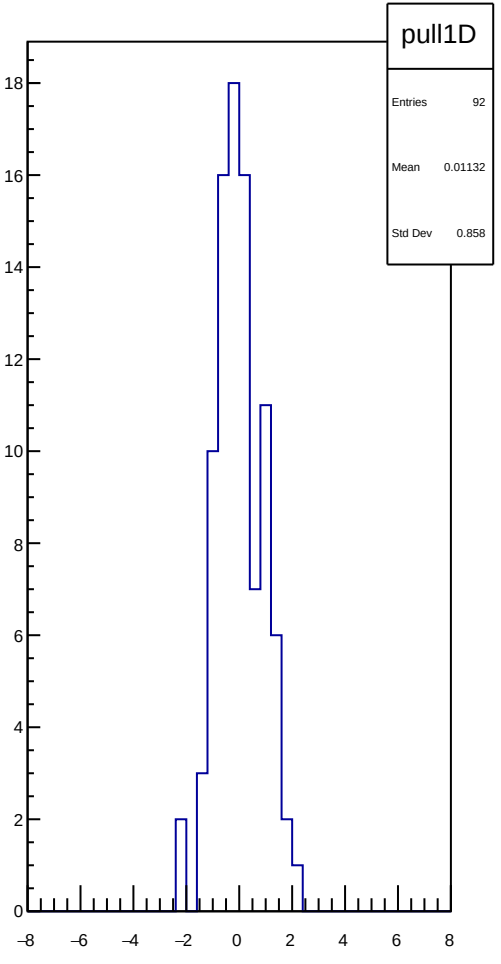

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 290.3 / 91
p0 1313 ± 0.9834
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

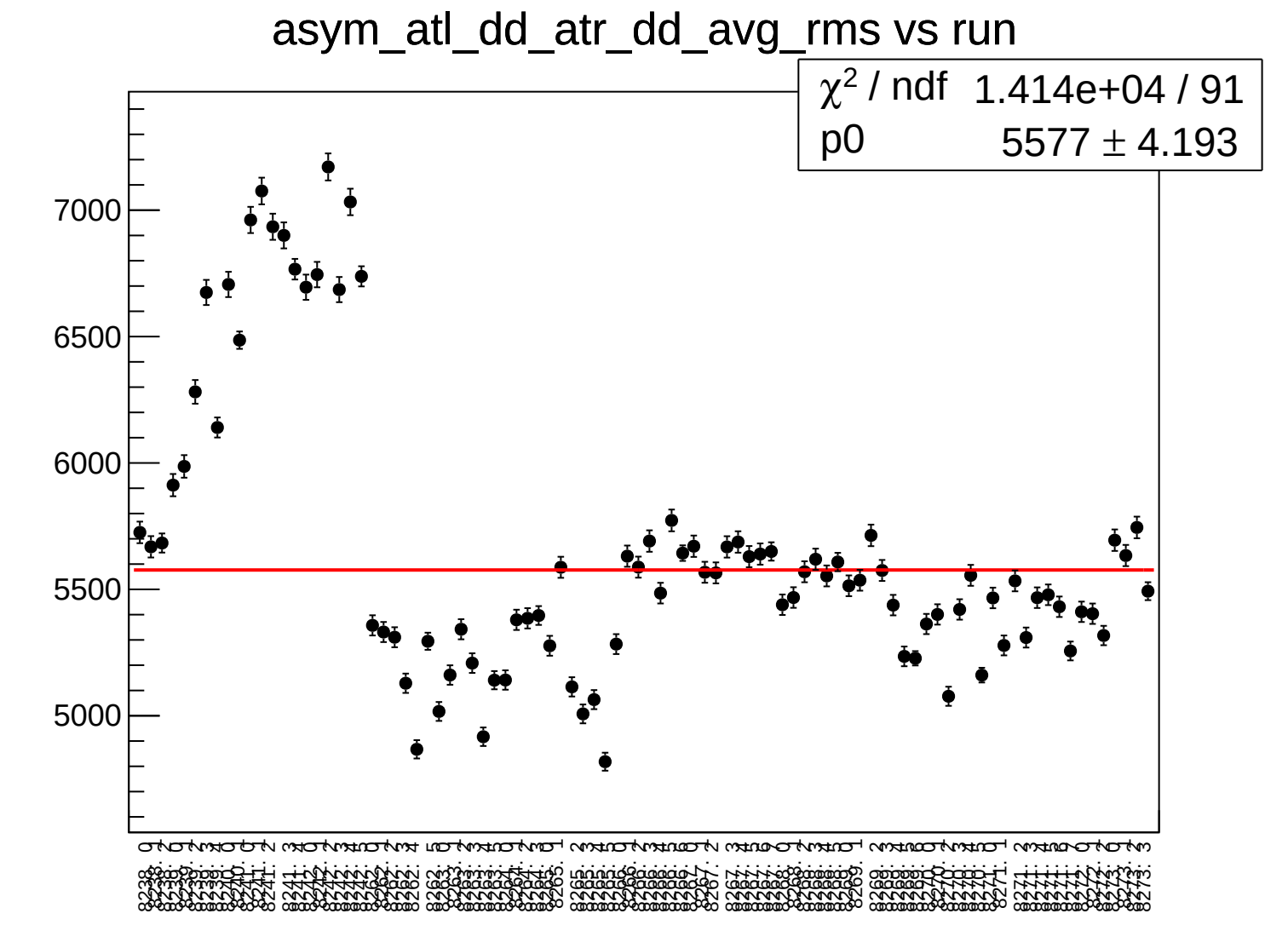

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.07 / 91
p0 −1.22e+04 ± 5855
pull
Entries 92
Mean −492.6
Std Dev 0

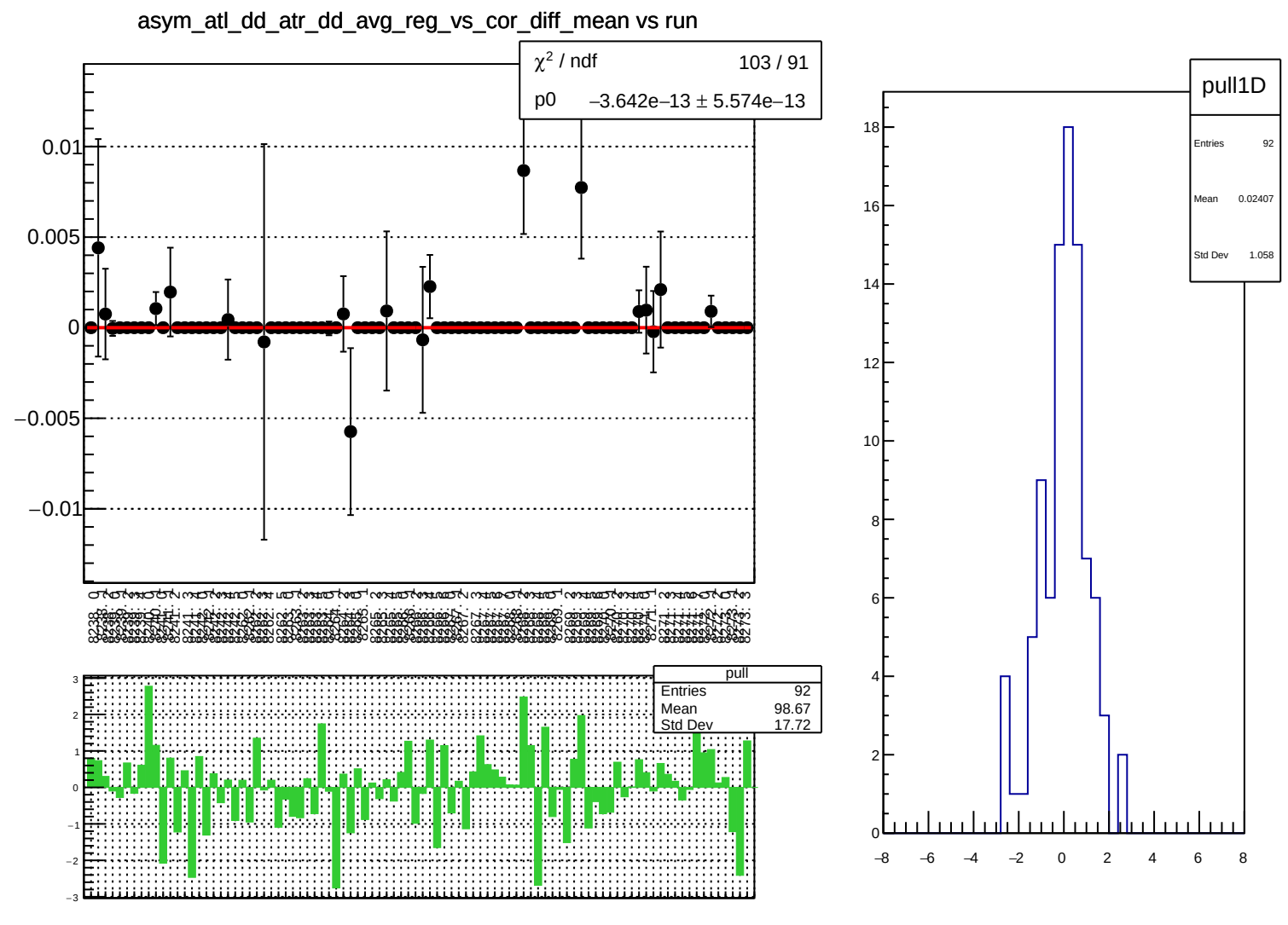

pull1D
Entries 92
Mean −0.007017
Std Dev 0.8601

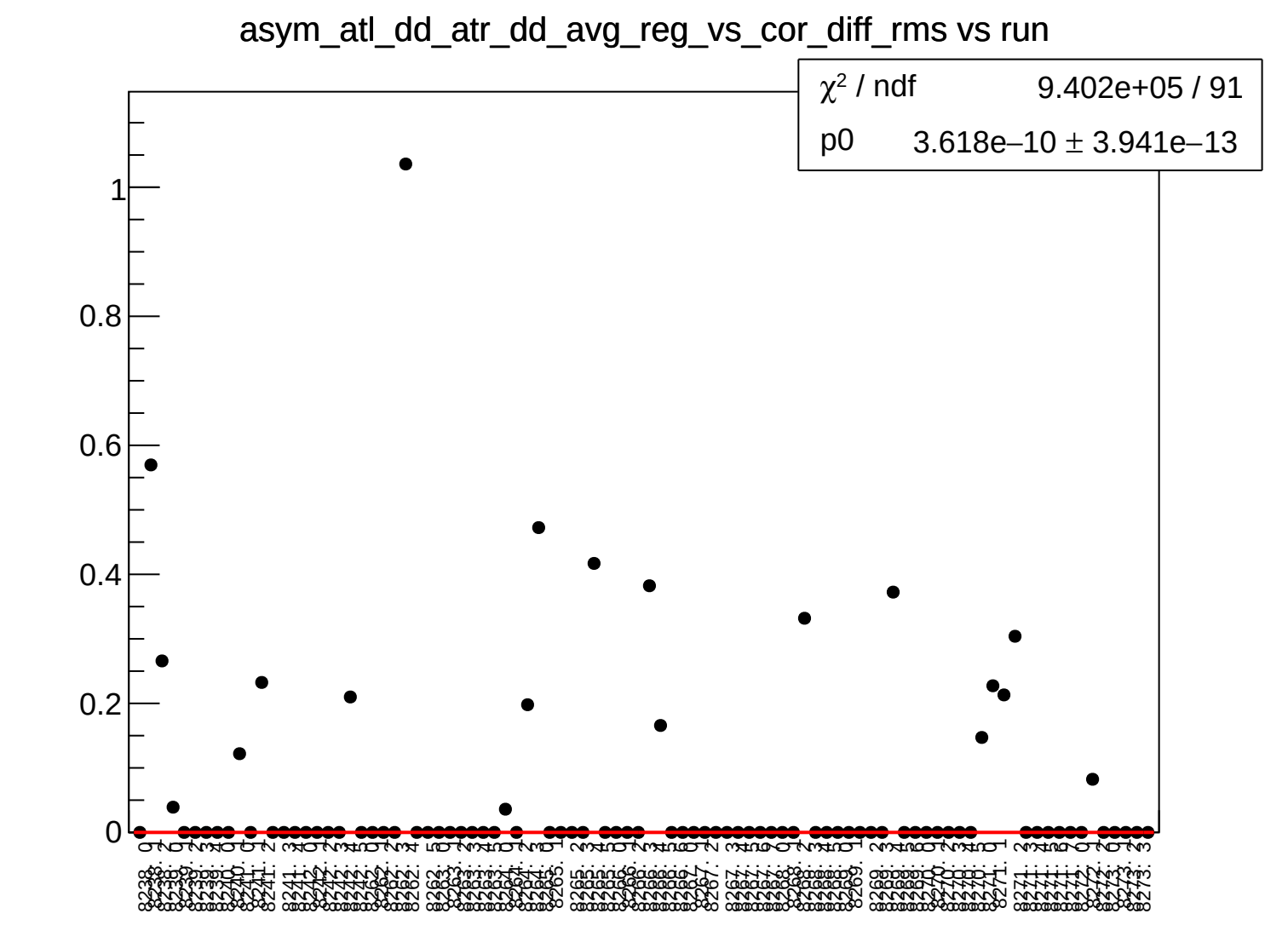

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.561e+04 / 91
p0 5504 ± 4.14
7000
6500
6000
5500
5000
4500

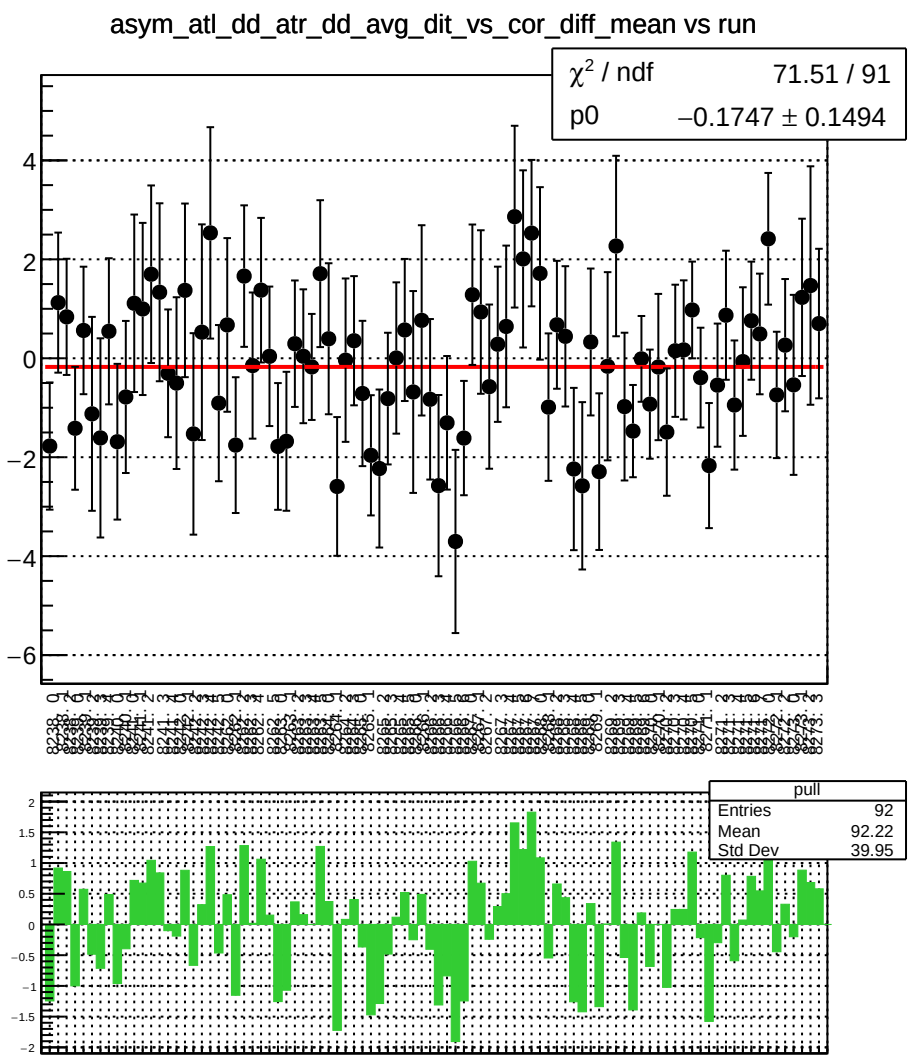

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 67.74 / 91
p0 1.299e+04 ± 5930
pull
Entries 92
Mean −295
Std Dev 0

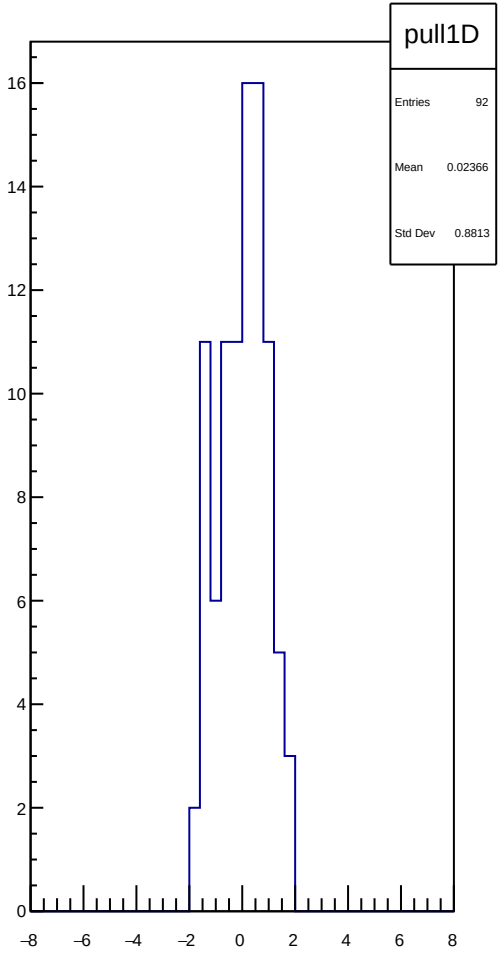

pull1D
Entries 92
Mean 0.01132
Std Dev 0.858

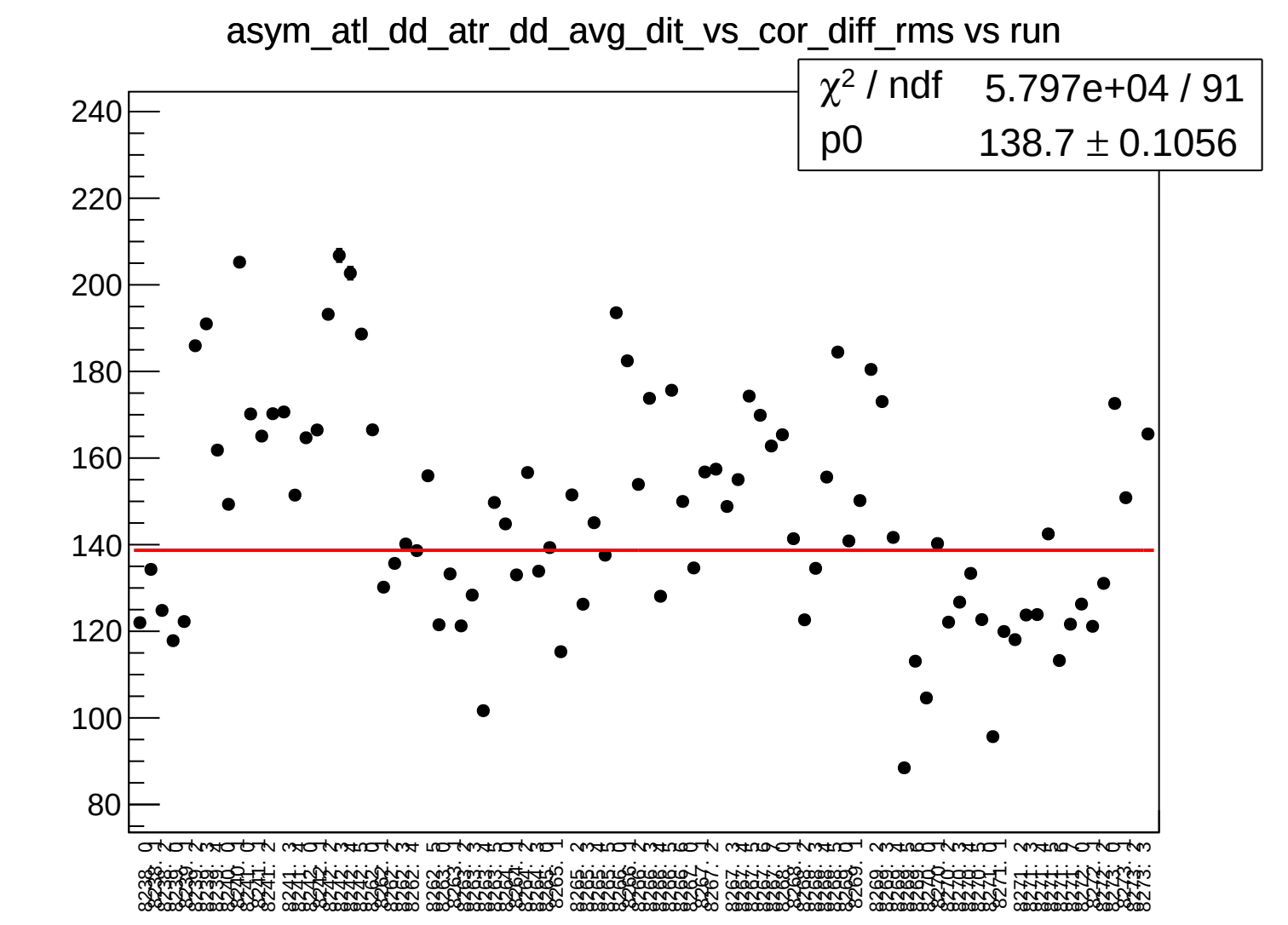

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.414e+04 / 91
p0 5577 ± 4.193
7000
6500
6000
5500
5000

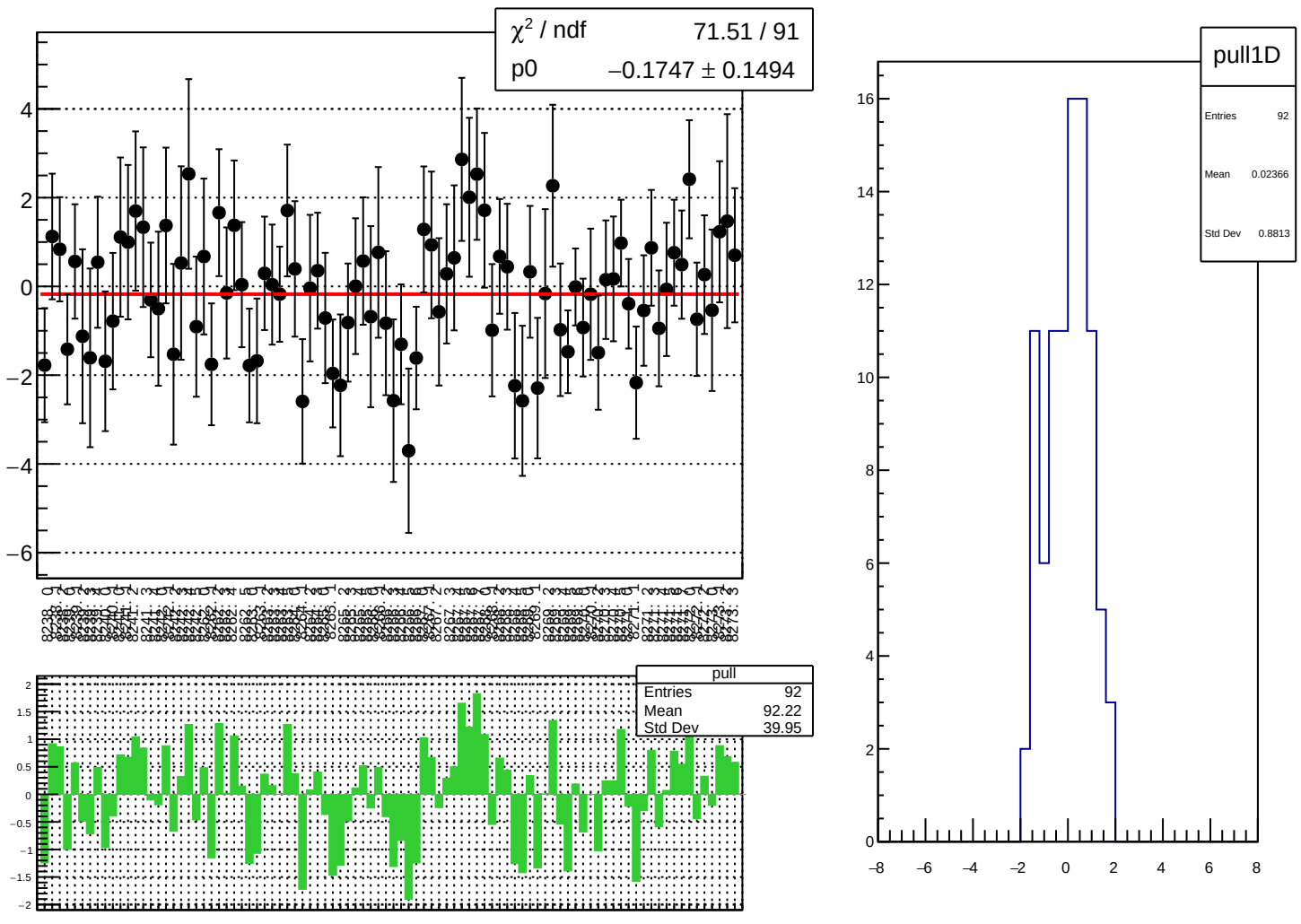

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 103 / 91
p0 −3.642e−13 ± 5.574e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 92
Mean 98.67
Std Dev 17.72
pull1D
Entries 92
Mean 0.02407
Std Dev 1.058

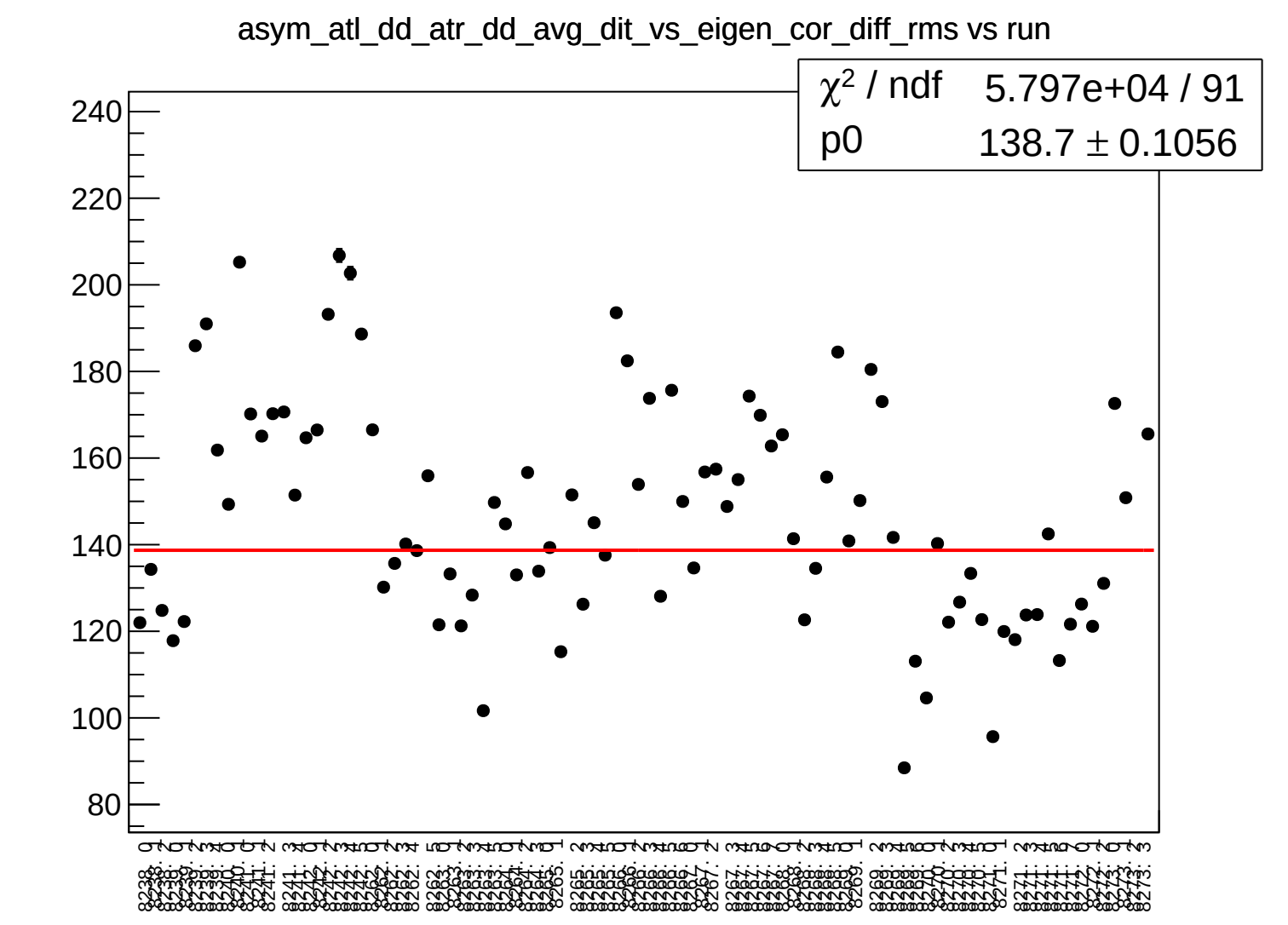

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.402e+05 / 91
p0 3.618e−10 ± 3.941e−13
1
0.8
0.6
0.4
0.2
0

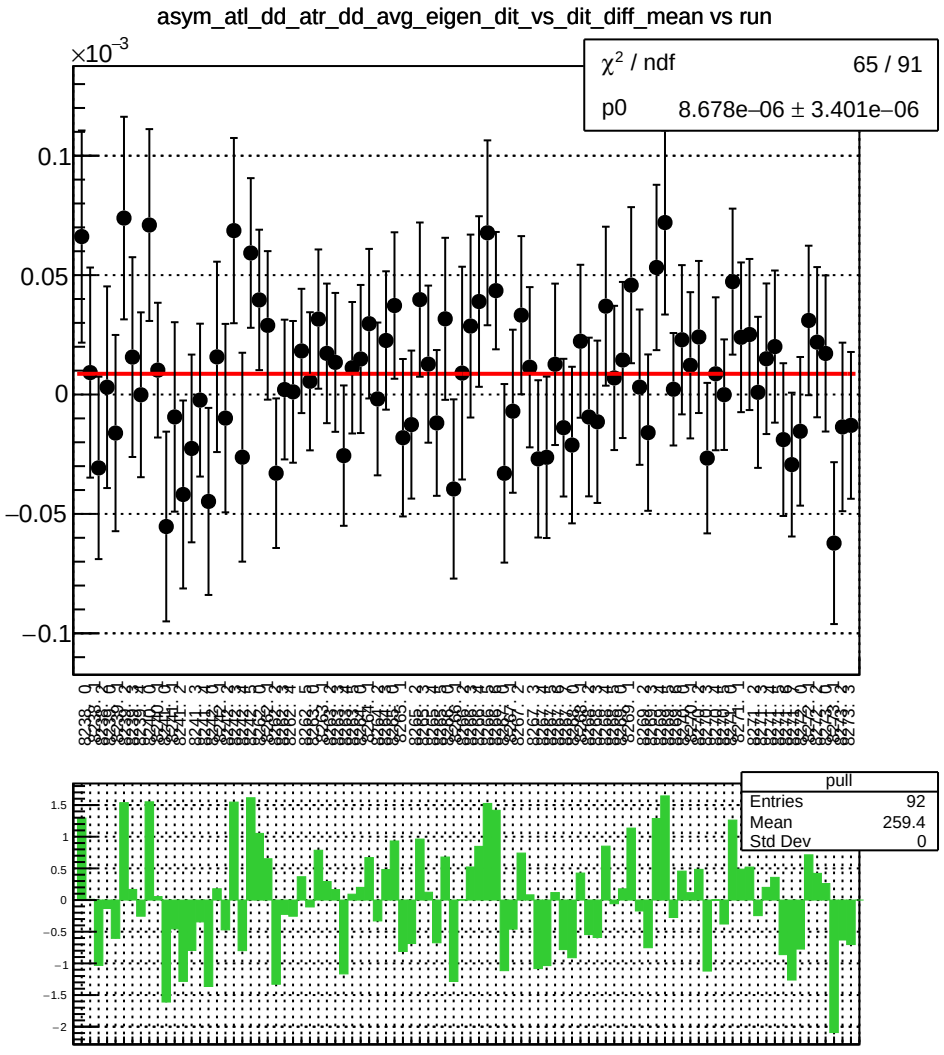

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.51 / 91
p0 −0.1747 ± 0.1494
pull
Entries 92
Mean 92.22
Std Dev 39.95

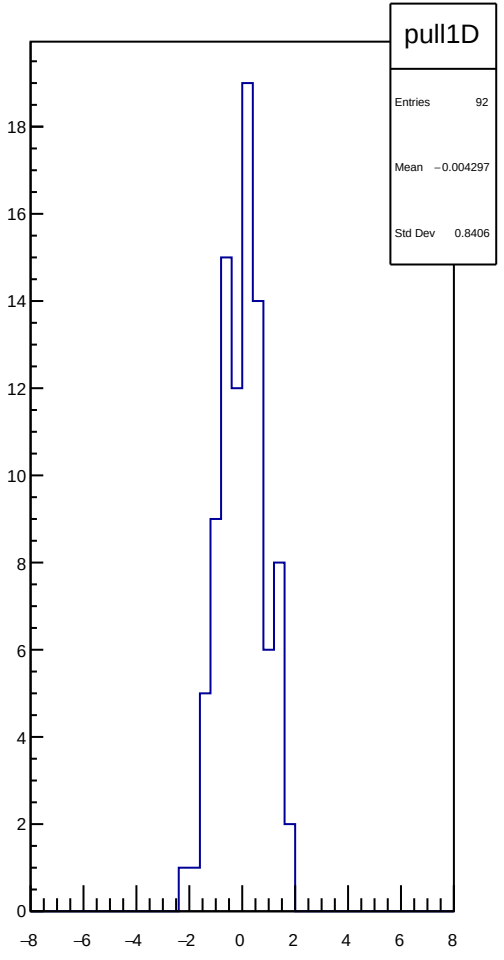

pull1D
Entries 92
Mean 0.02366
Std Dev 0.8813

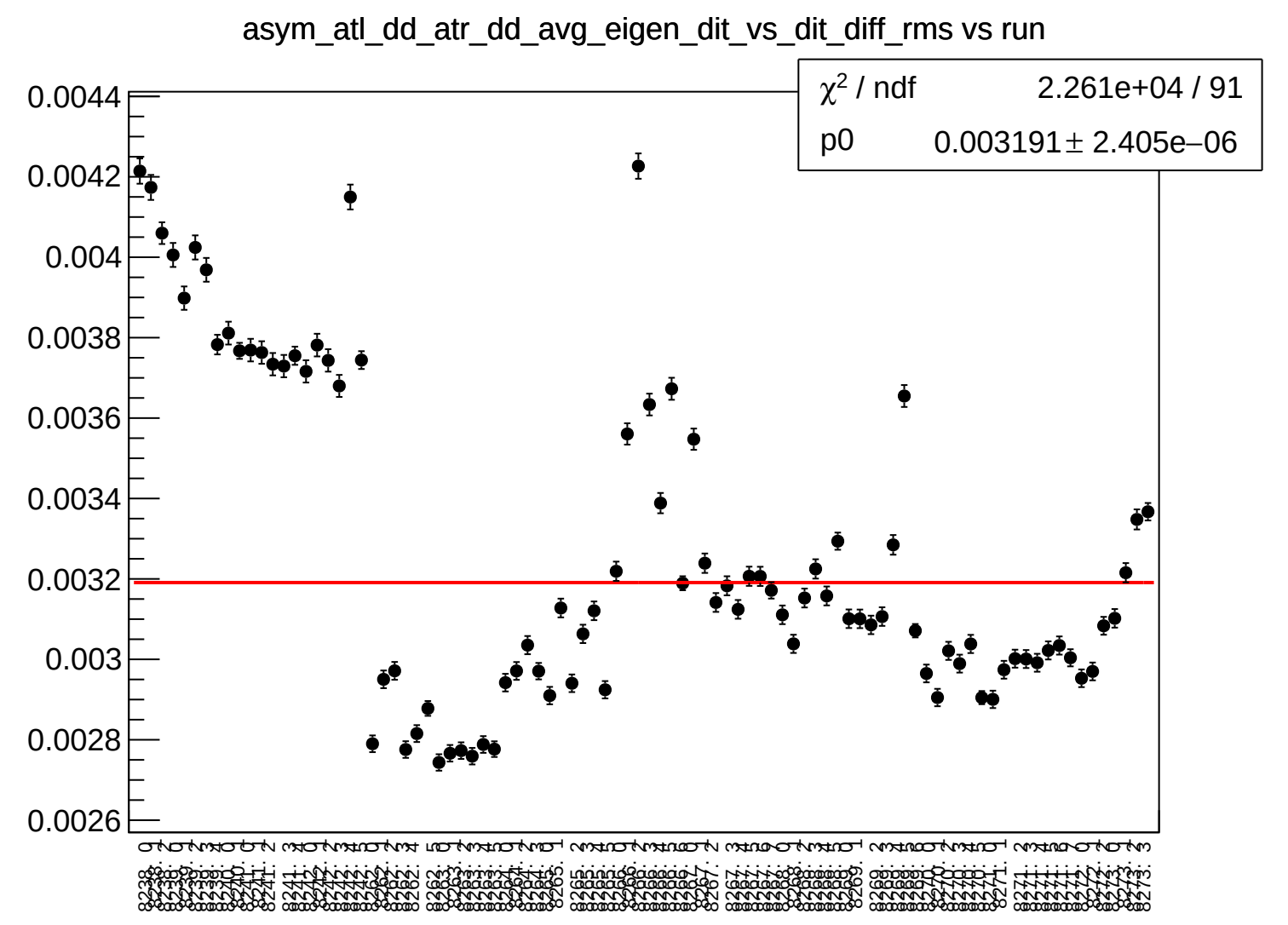

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.797e+04 / 91
p0 138.7 ± 0.1056
240
220
200
180
160
140
120
100
80

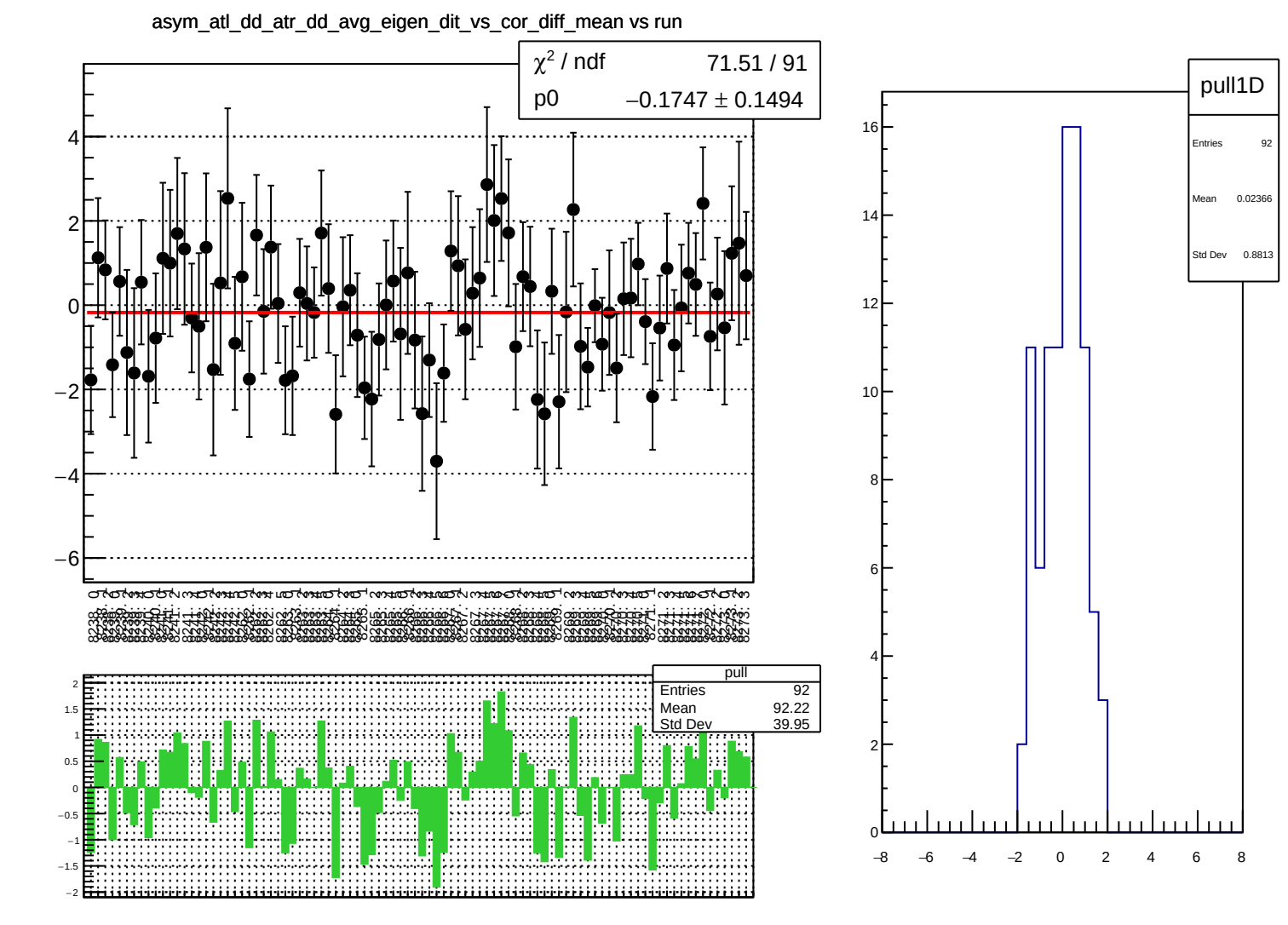

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.51 / 91
p0 −0.1747 ± 0.1494
pull
Entries 92
Mean 92.22
Std Dev 39.95
pull1D
Entries 92
Mean 0.02366
Std Dev 0.8813

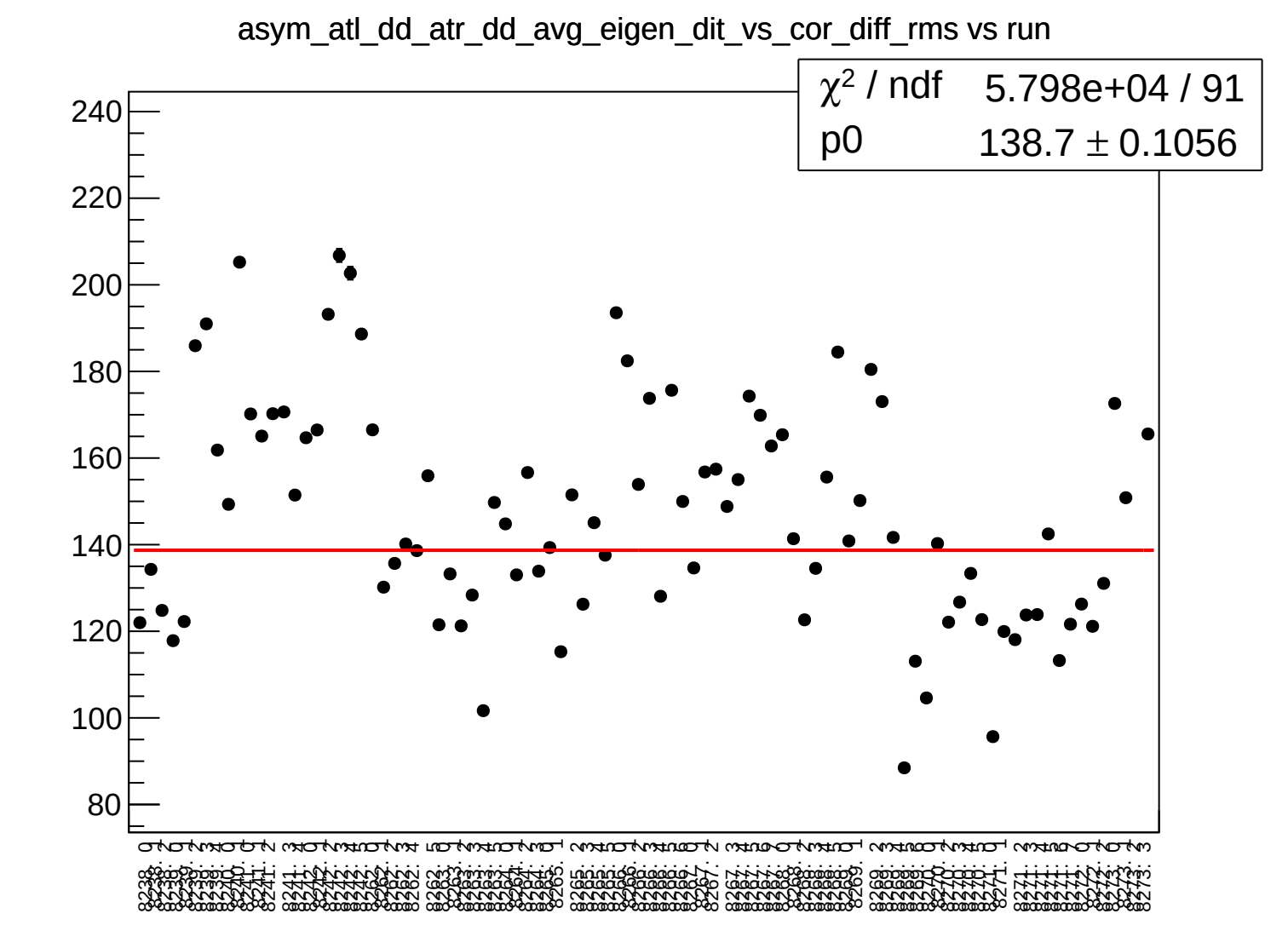

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.797e+04 / 91
p0 138.7 ± 0.1056
240
220
200
180
160
140
120
100
80

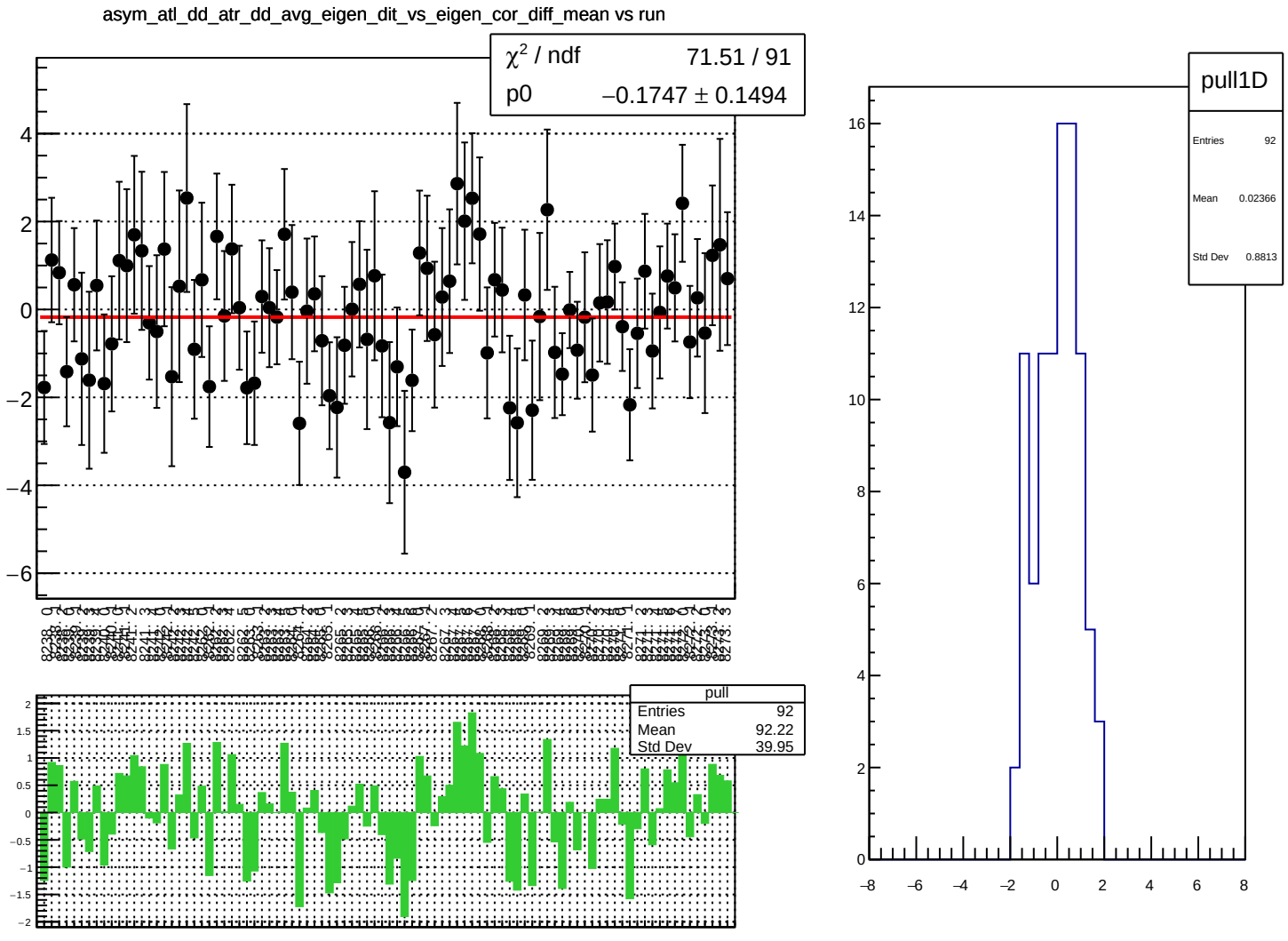

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 65 / 91
p0 8.678e−06 ± 3.401e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean 259.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

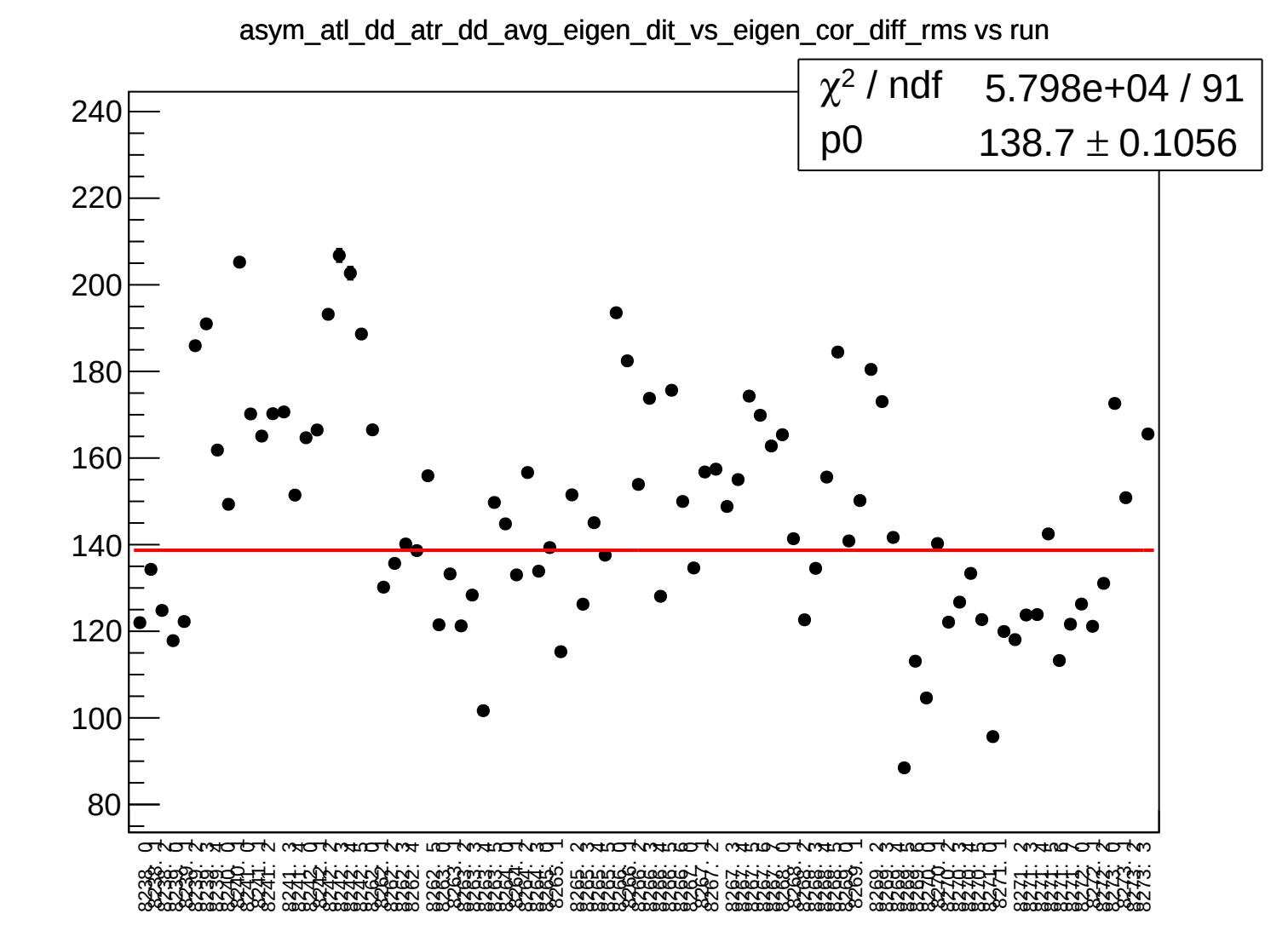

pull1D
Entries 92
Mean −0.004297
Std Dev 0.8406
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

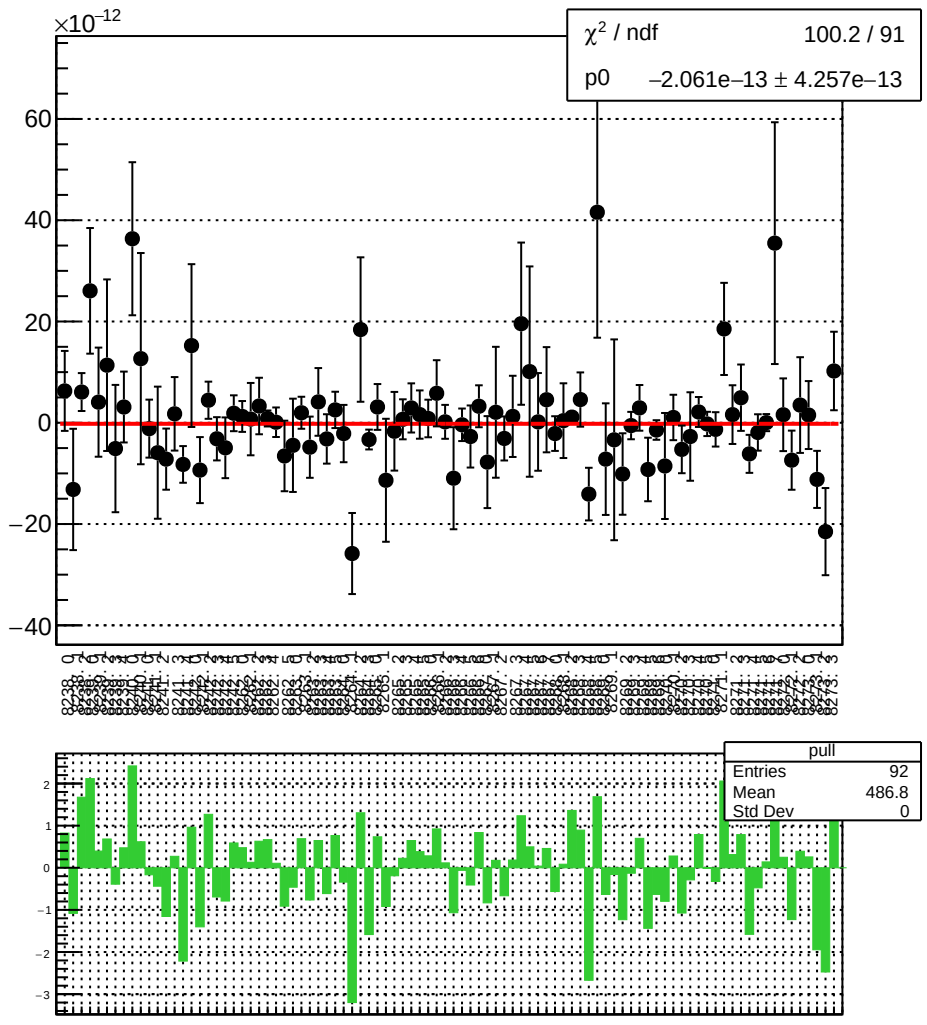

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.261e+04 / 91
p0 0.003191 ± 2.405e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

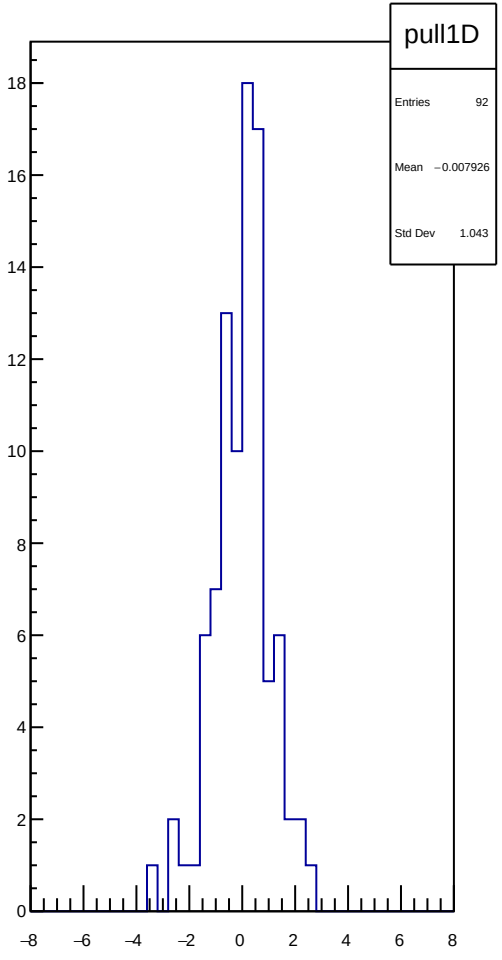

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.51 / 91
p0 −0.1747 ± 0.1494
pull
Entries 92
Mean 92.22
Std Dev 39.95
pull1D
Entries 92
Mean 0.02366
Std Dev 0.8813

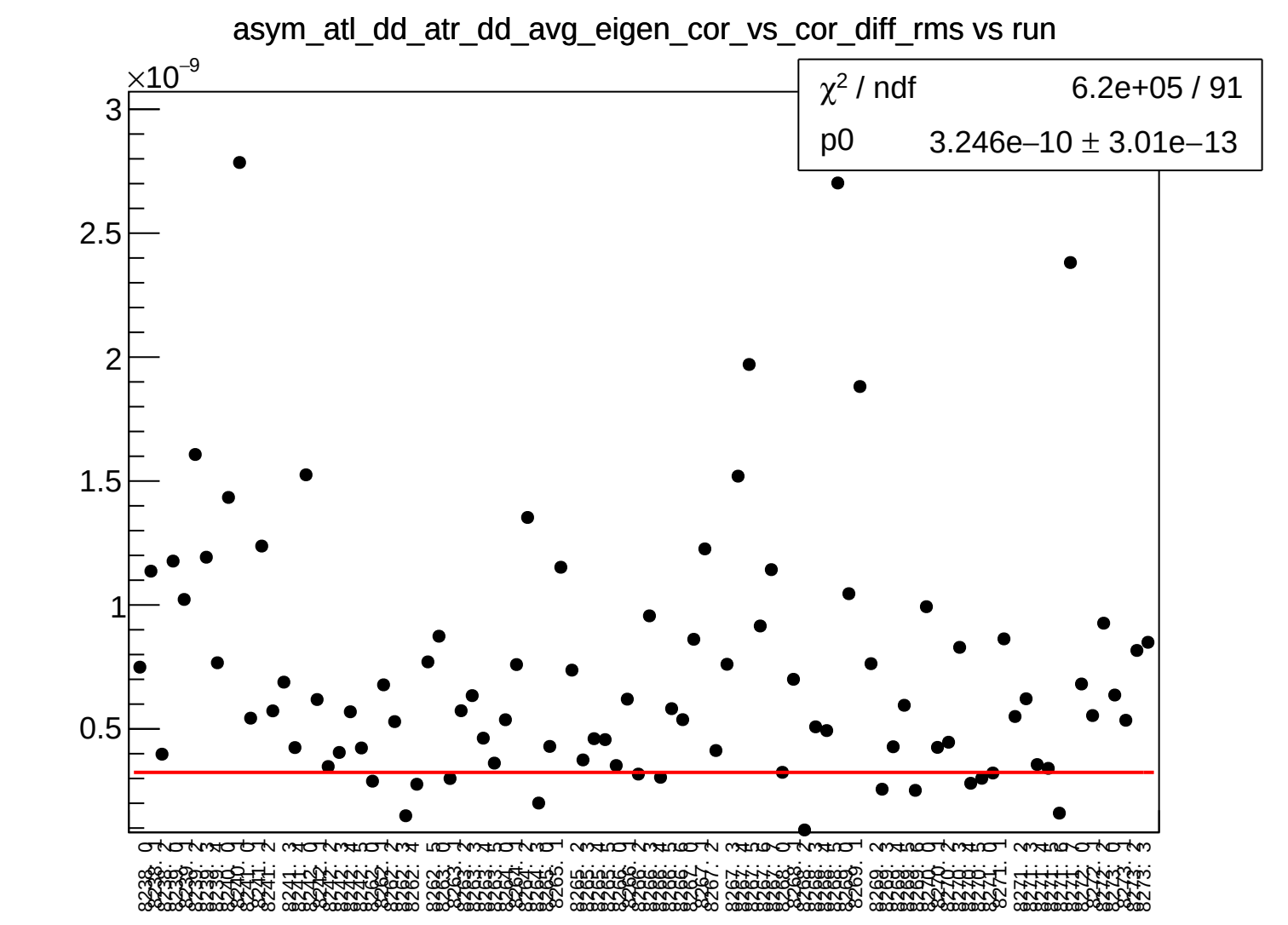

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.798e+04 / 91
p0 138.7 ± 0.1056
240
220
200
180
160
140
120
100
80

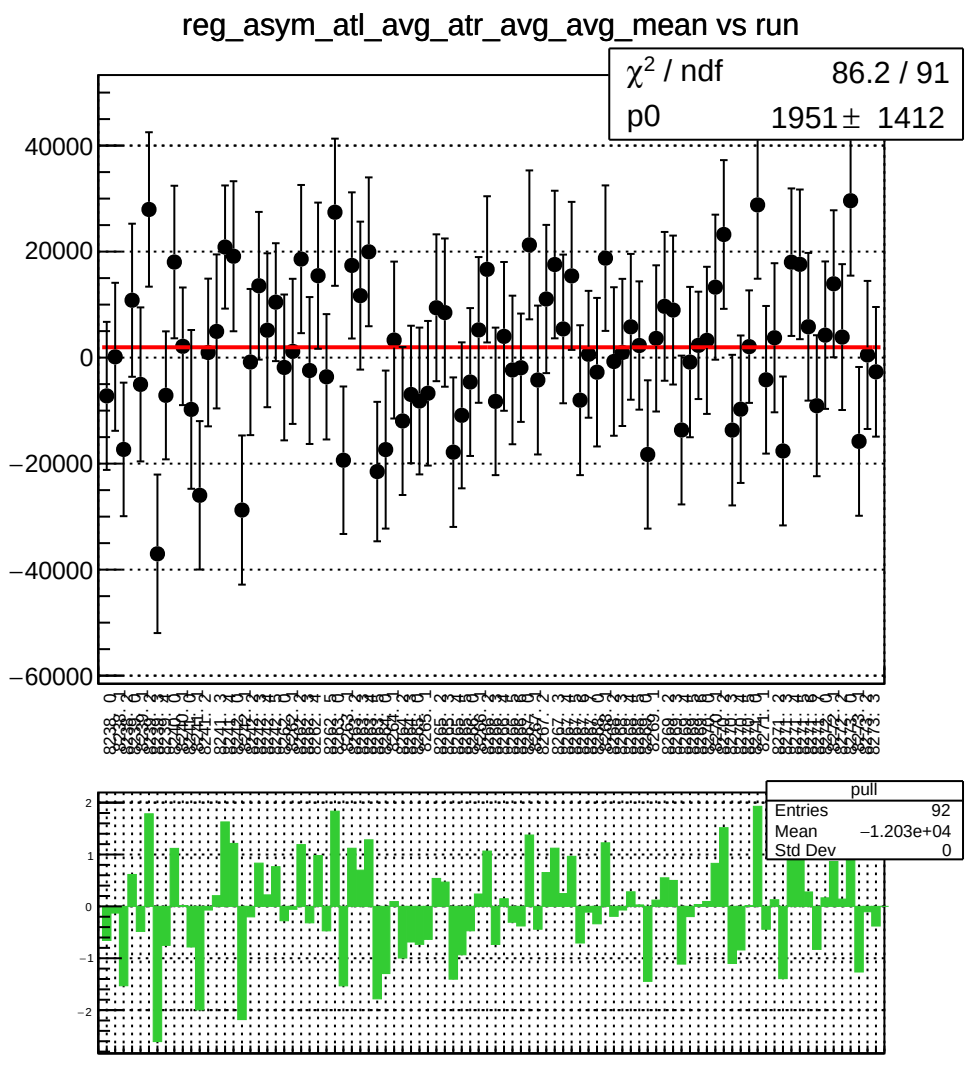

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.51 / 91
p0 −0.1747 ± 0.1494
pull
Entries 92
Mean 92.22
Std Dev 39.95
pull1D
Entries 92
Mean 0.02366
Std Dev 0.8813

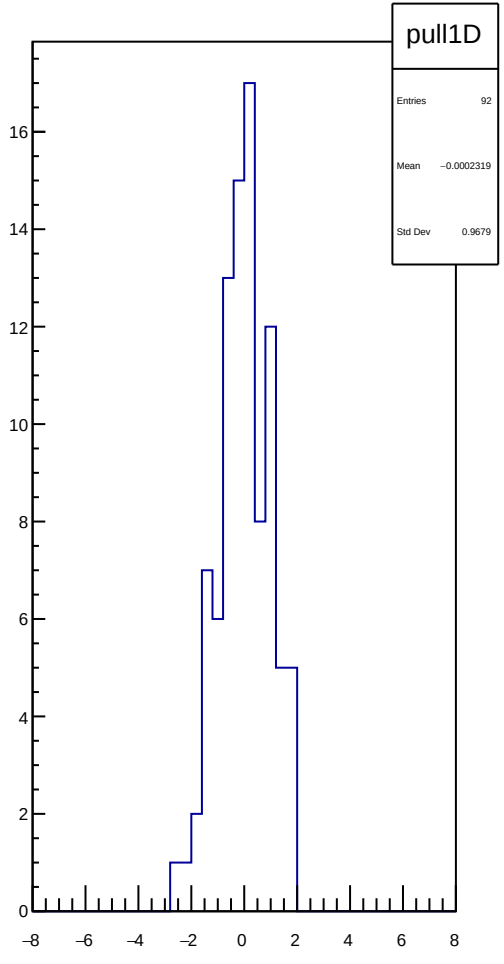

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.798e+04 / 91
p0 138.7 ± 0.1056
240
220
200
180
160
140
120
100
80

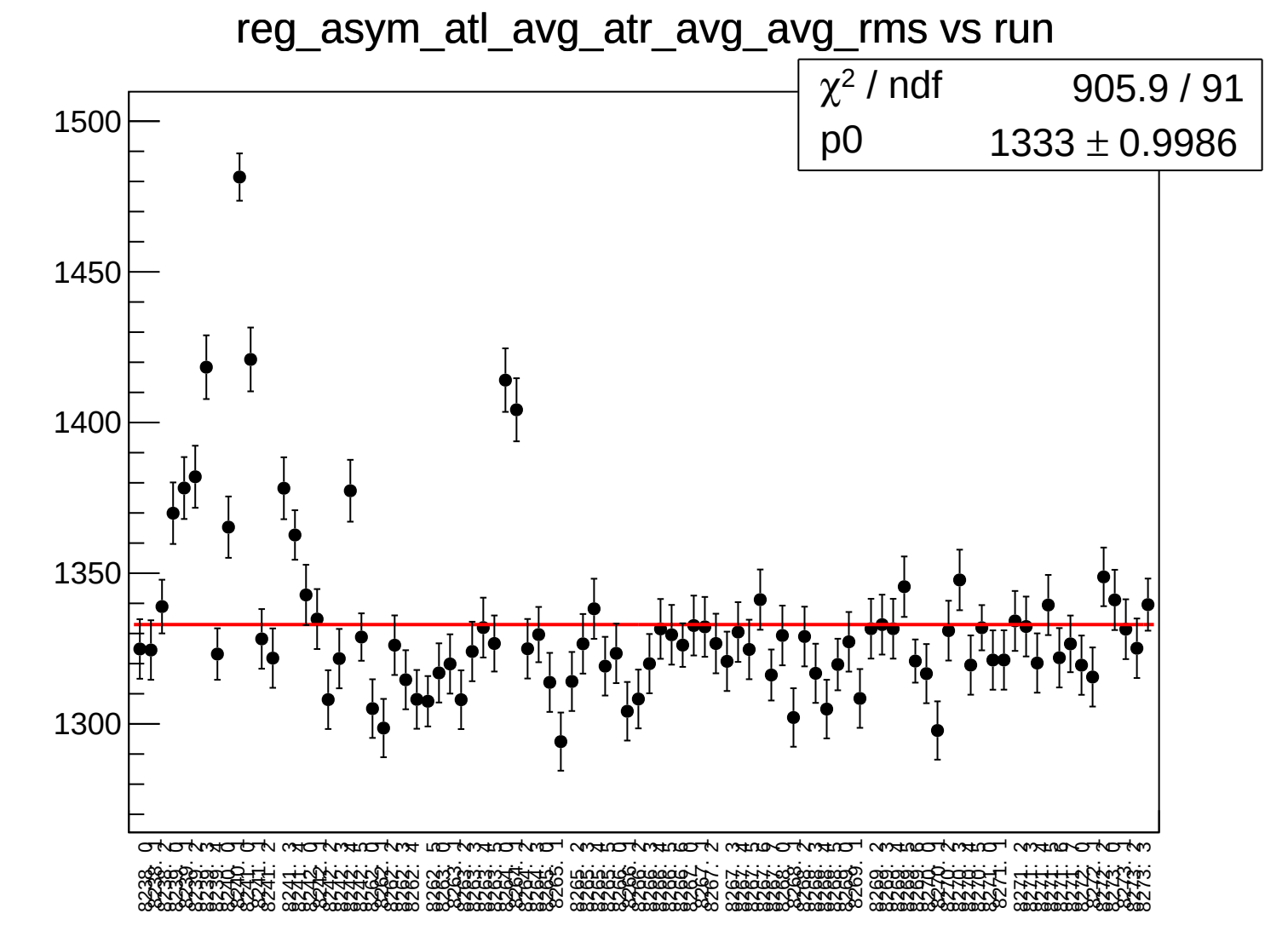

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 100.2 / 91
p0 −2.061e−13 ± 4.257e−13
60
40
20
0
−20
−40
pull
Entries 92
Mean 486.8
Std Dev 0
2
1
0
−1
−2
−3

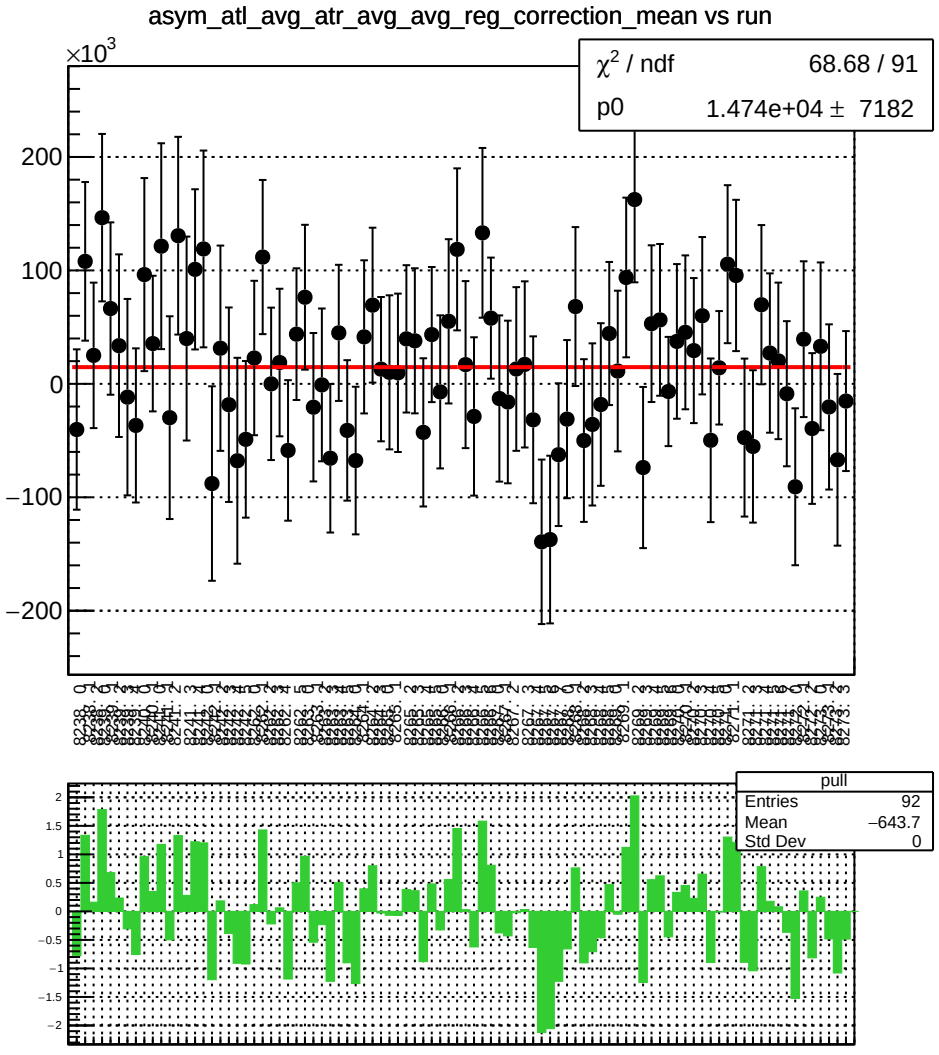

pull1D
Entries 92
Mean −0.007926
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

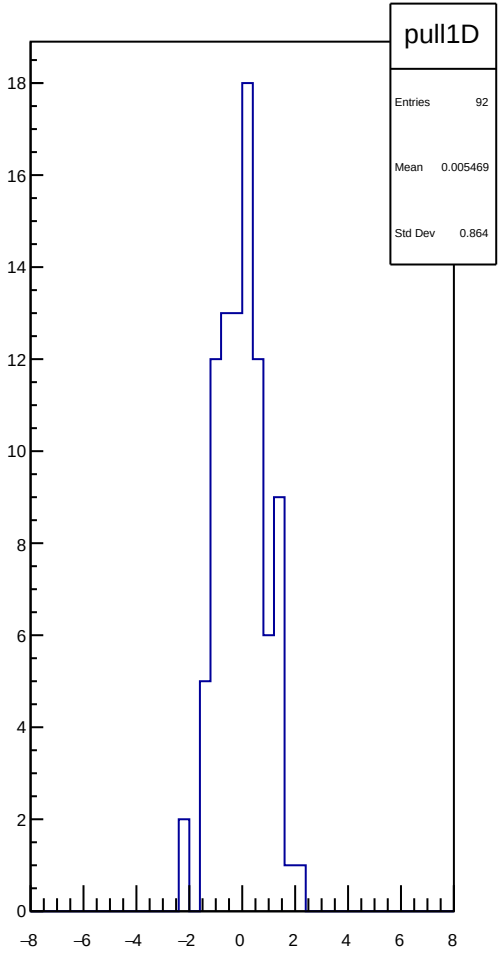

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.2e+05 / 91
p0 3.246e−10 ± 3.01e−13
3
2.5
2
1.5
1
0.5

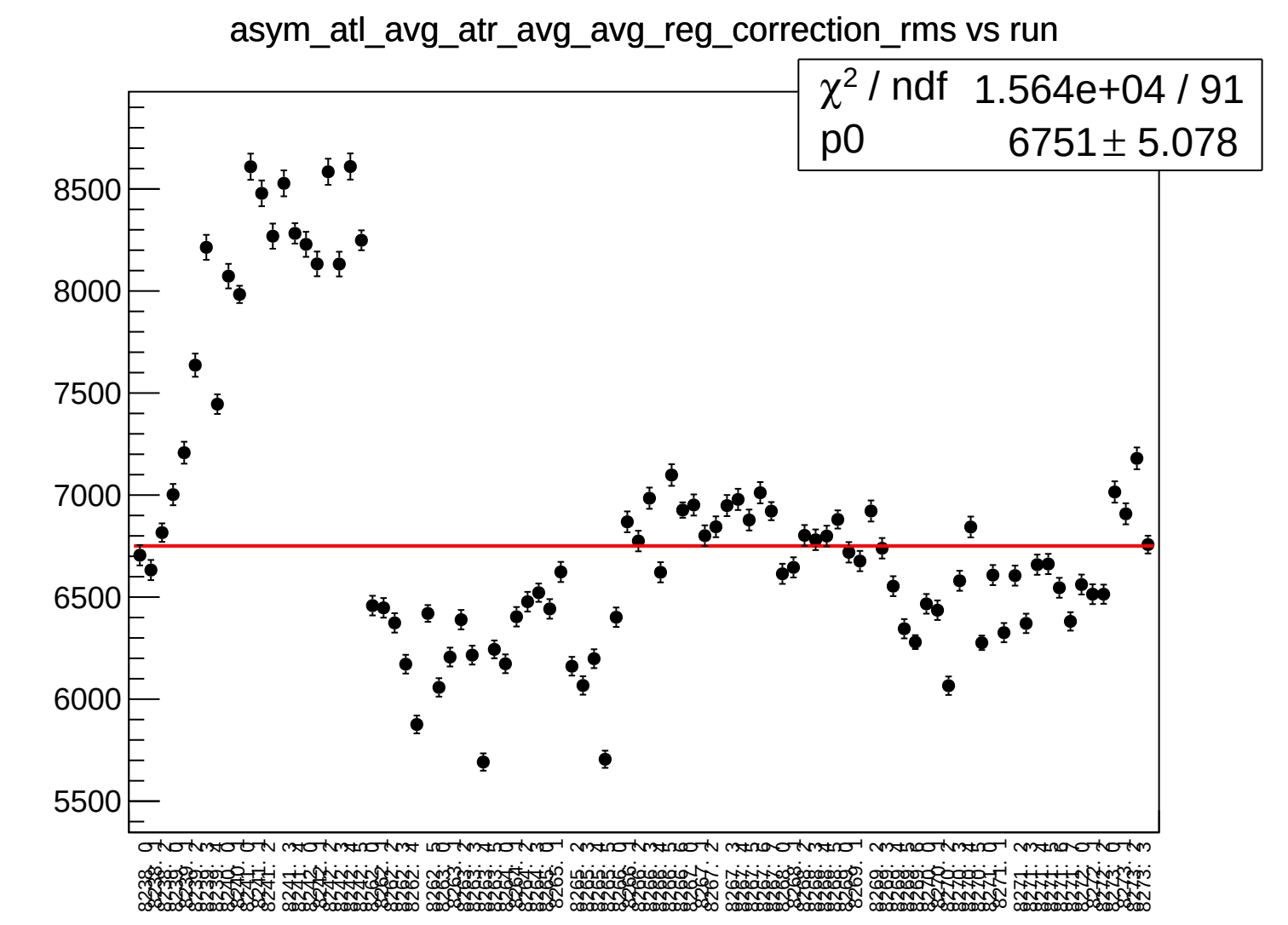

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 86.2 / 91
p0 1951 ± 1412
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1.203e+04
Std Dev 0
2
1
0
−1
−2

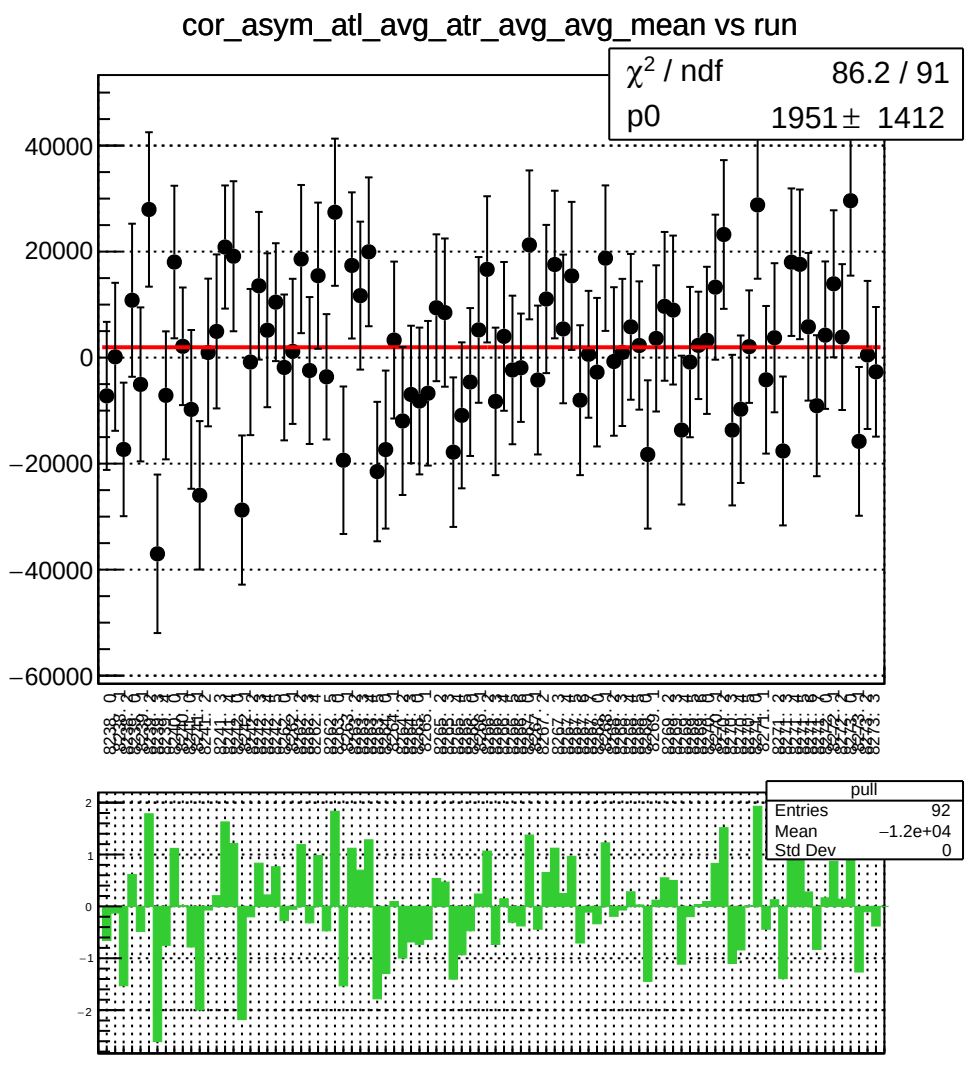

pull1D
Entries 92
Mean −0.0002319
Std Dev 0.9679
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

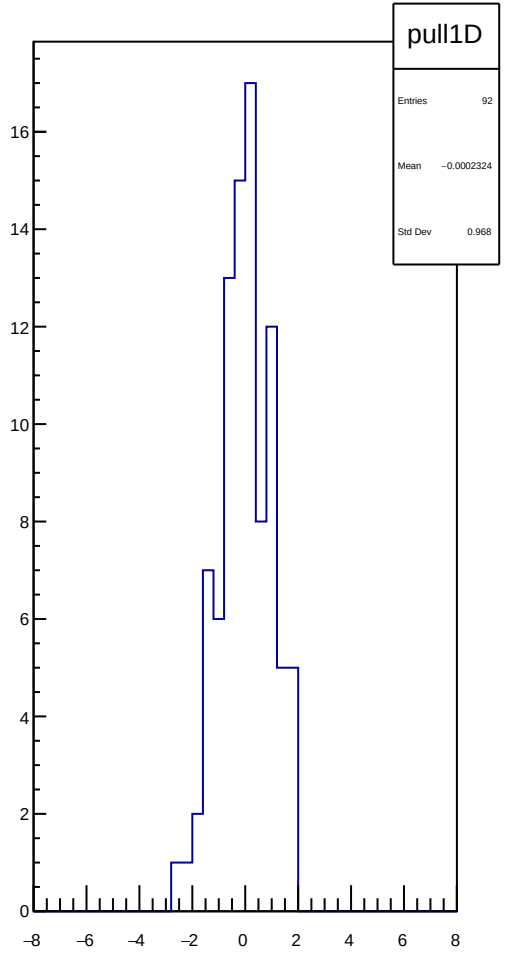

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 905.9 / 91
p0 1333 ± 0.9986
1500
1450
1400
1350
1300

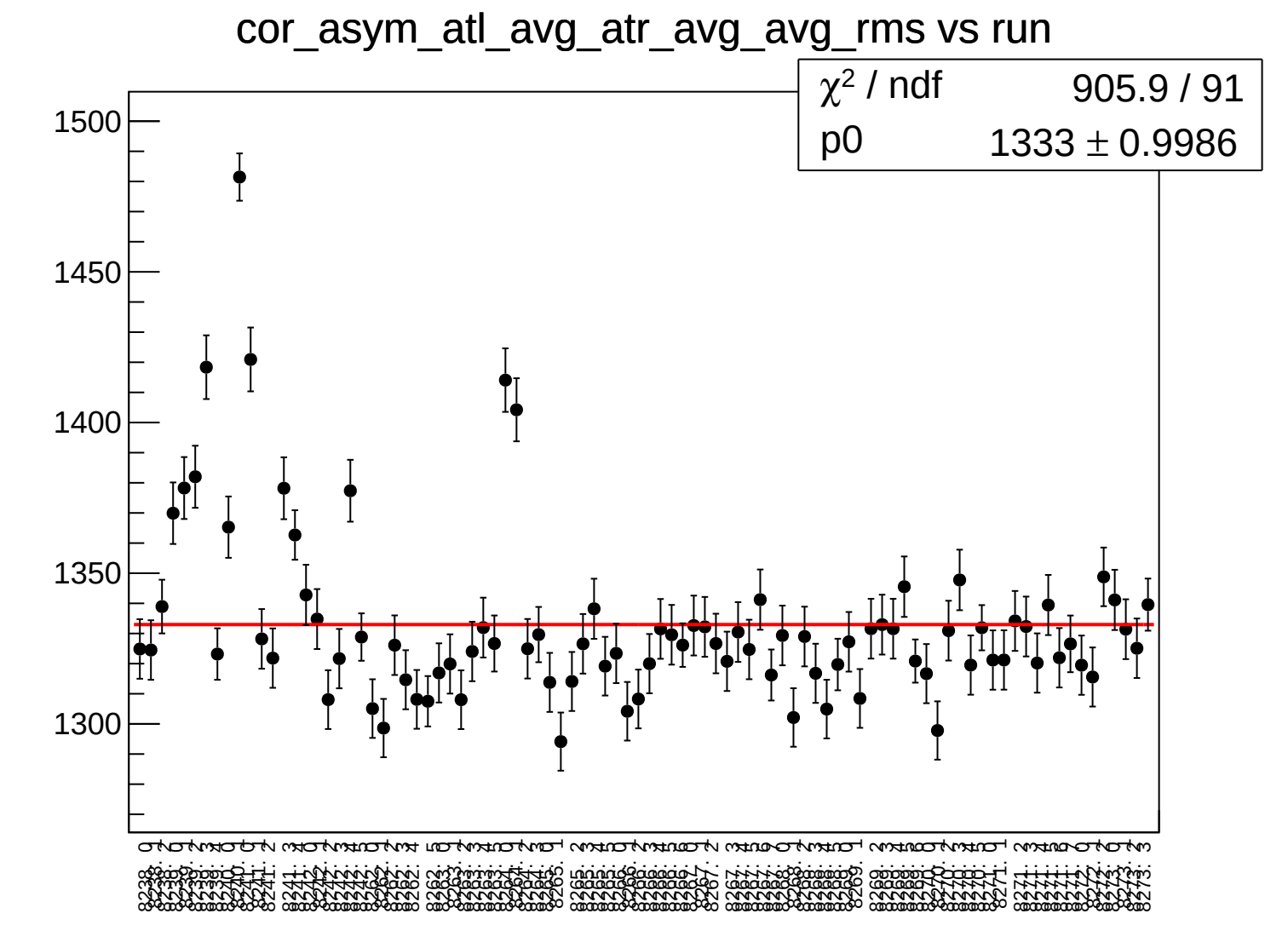

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 68.68 / 91
p0 1.474e+04 ± 7182
200
100
0
−100
−200
pull
Entries 92
Mean −643.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

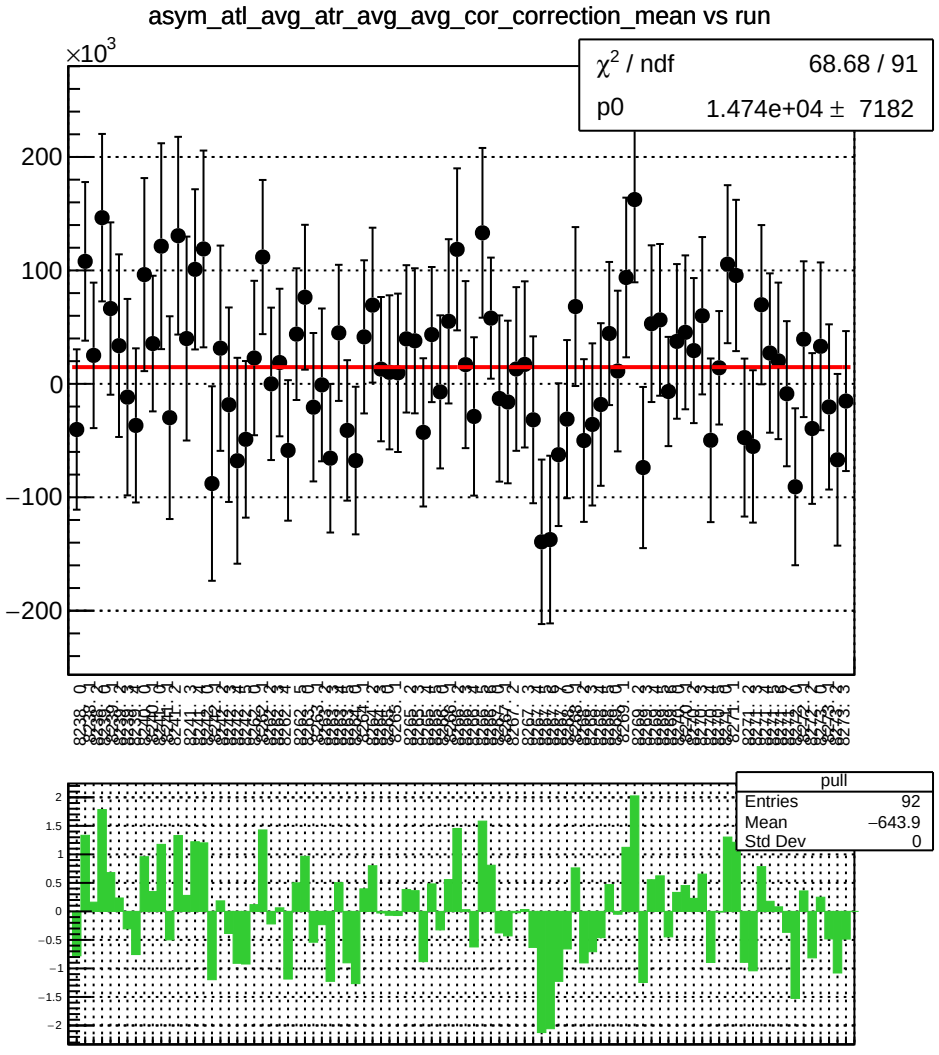

pull1D
Entries 92
Mean 0.005469
Std Dev 0.864
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

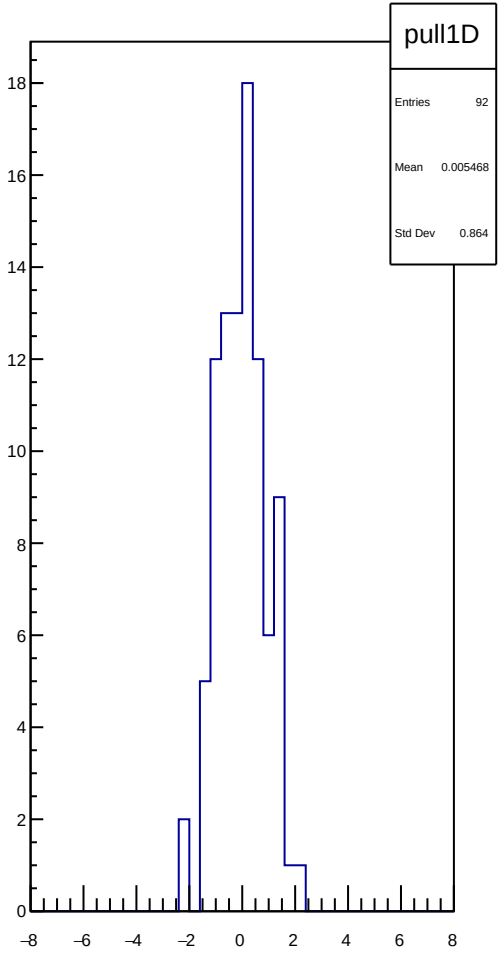

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.564e+04 / 91
p0 6751 ± 5.078
8500
8000
7500
7000
6500
6000
5500

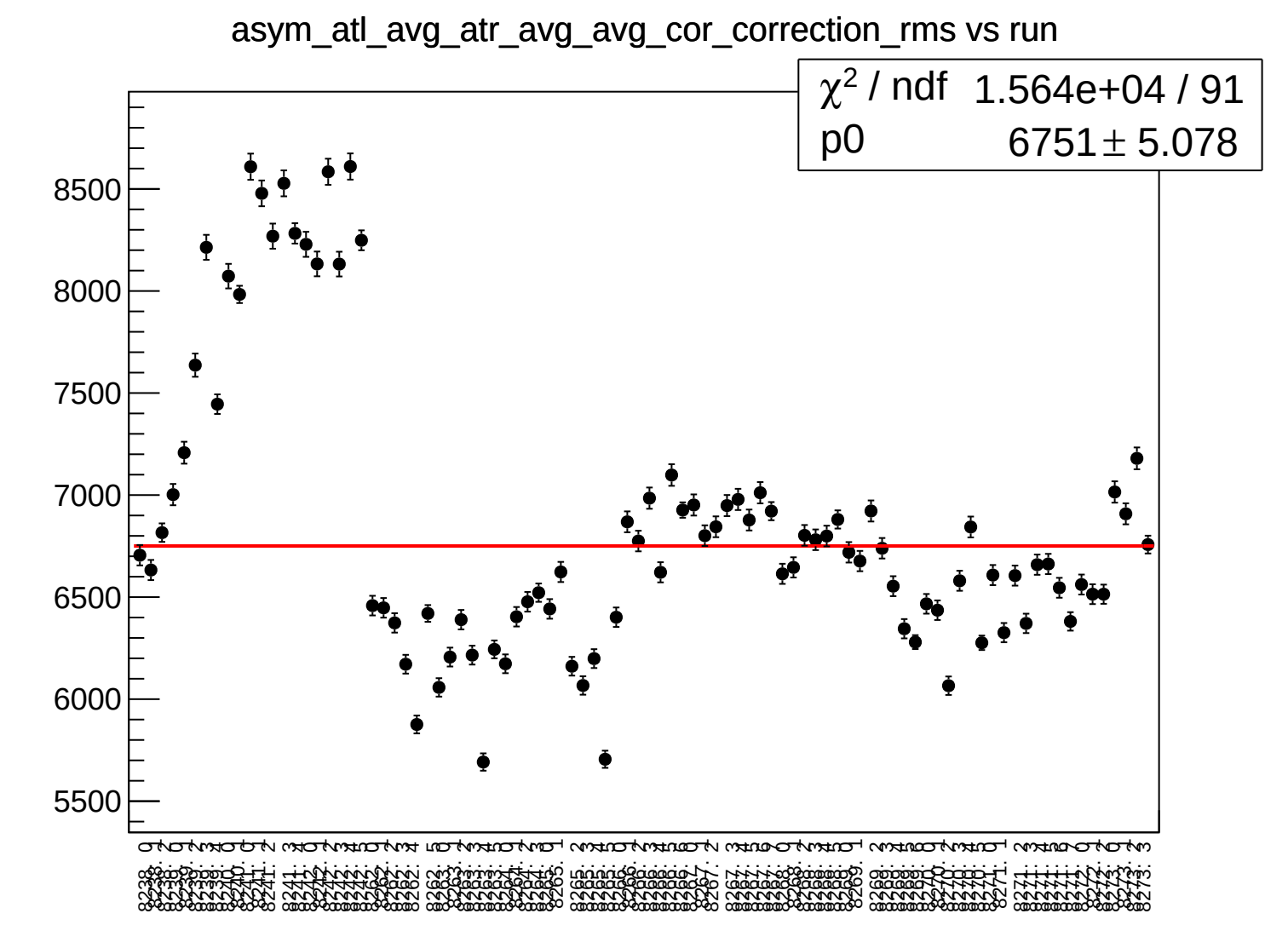

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 86.2 / 91
p0 1951 ± 1412
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1.2e+04
Std Dev 0
2
1
0
−1
−2

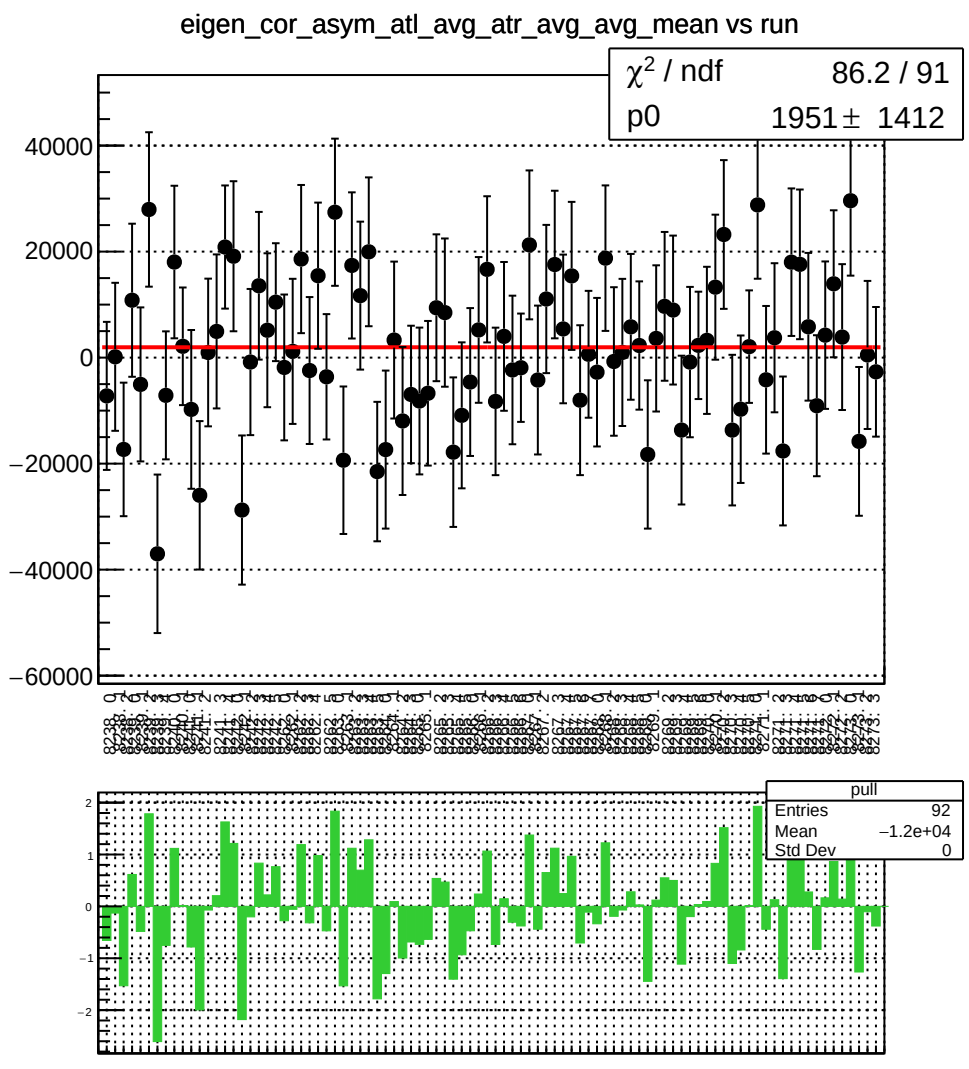

pull1D
Entries 92
Mean −0.0002324
Std Dev 0.968
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

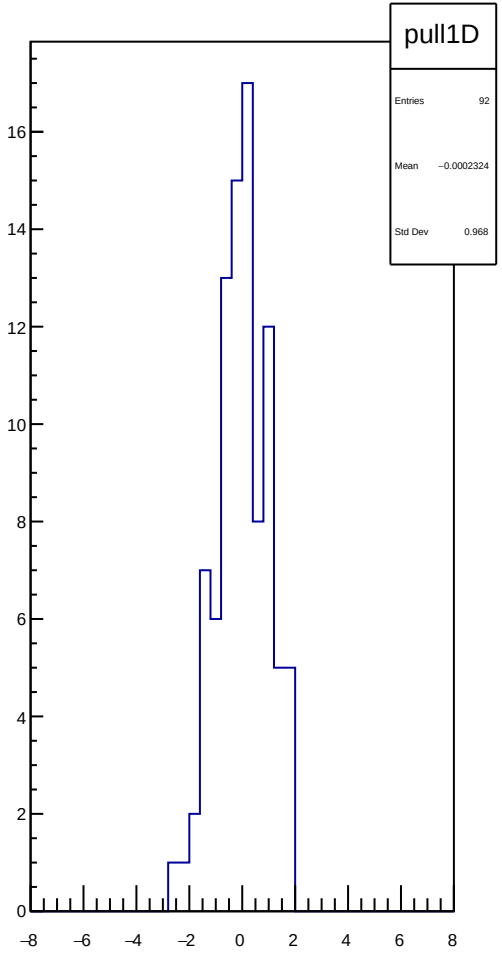

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 905.9 / 91
p0 1333 ± 0.9986
1500
1450
1400
1350
1300

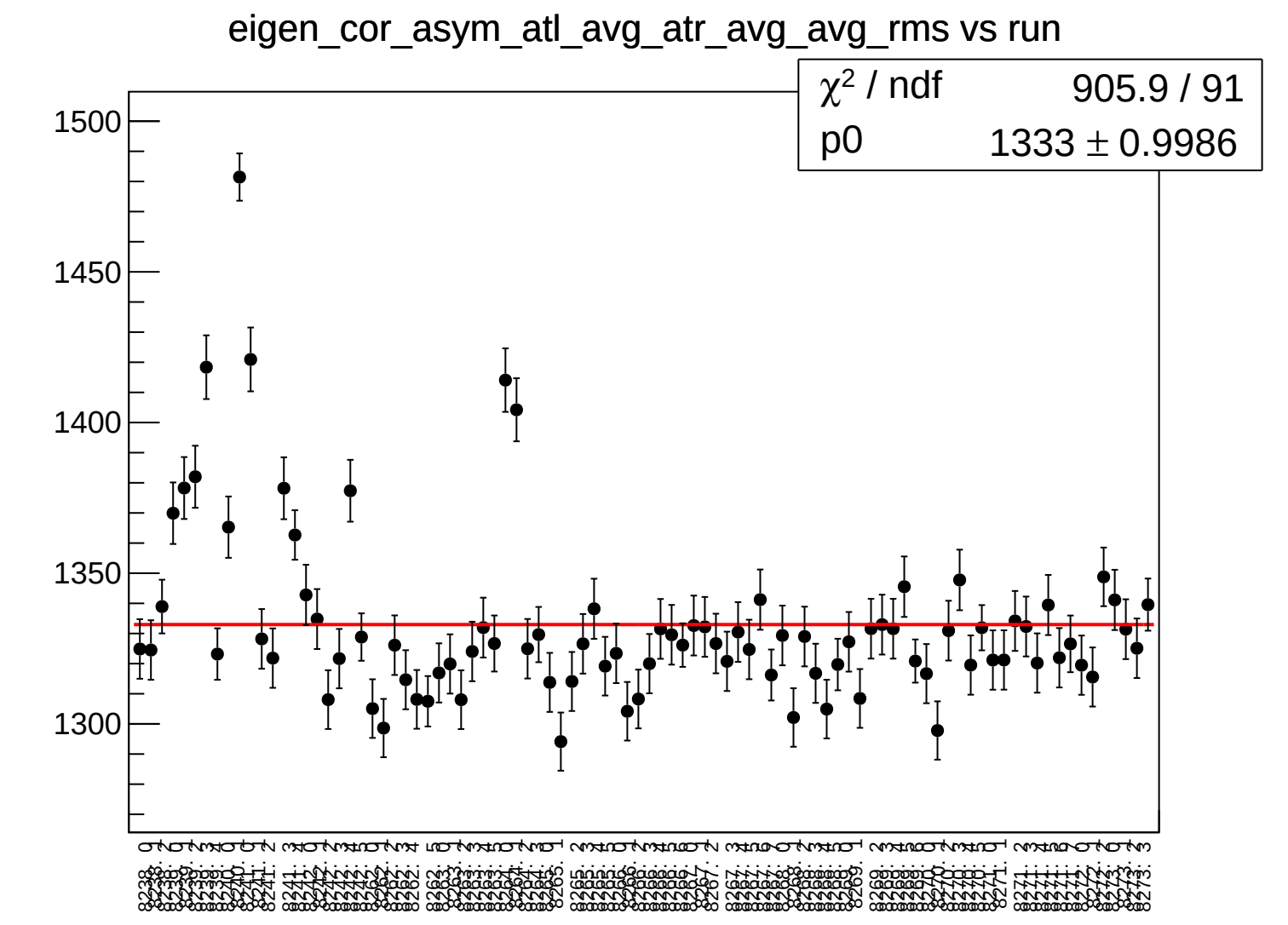

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 68.68 / 91
p0 1.474e+04 ± 7182
200
100
0
−100
−200
pull
Entries 92
Mean −643.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

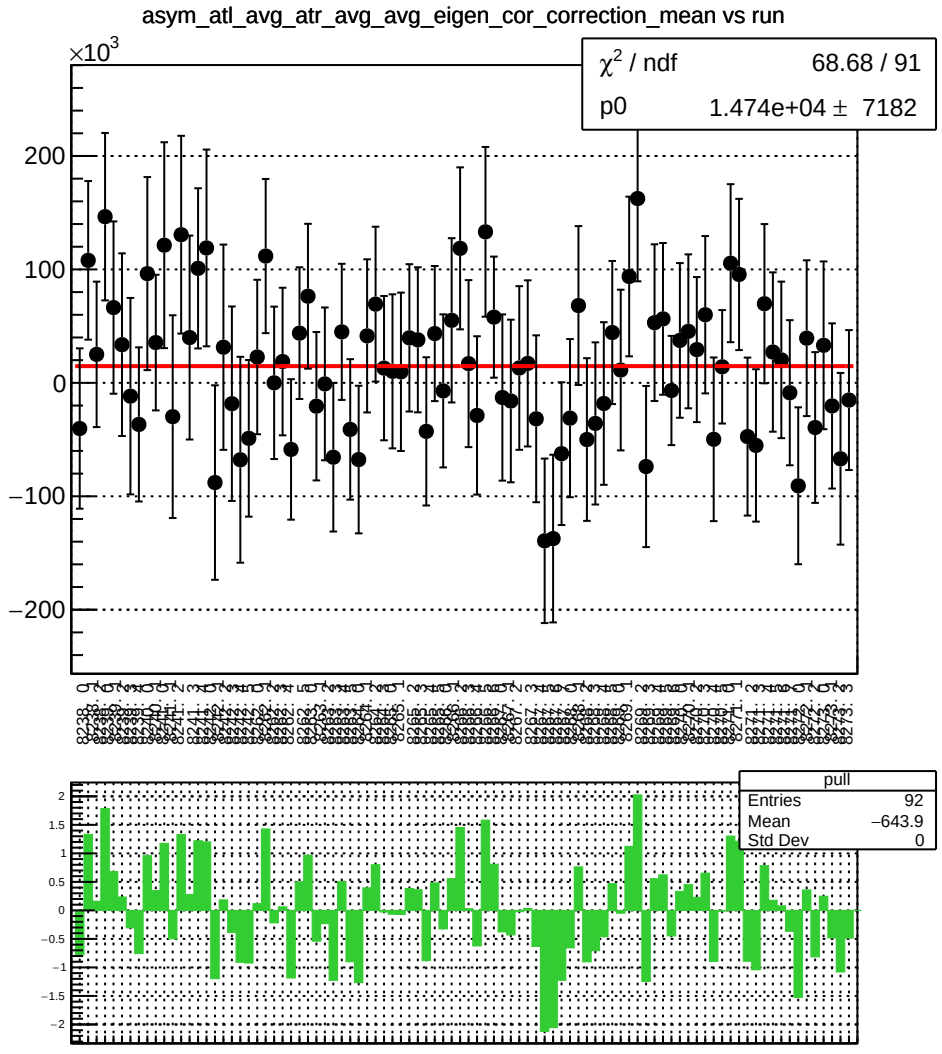

pull1D
Entries 92
Mean 0.005468
Std Dev 0.864
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

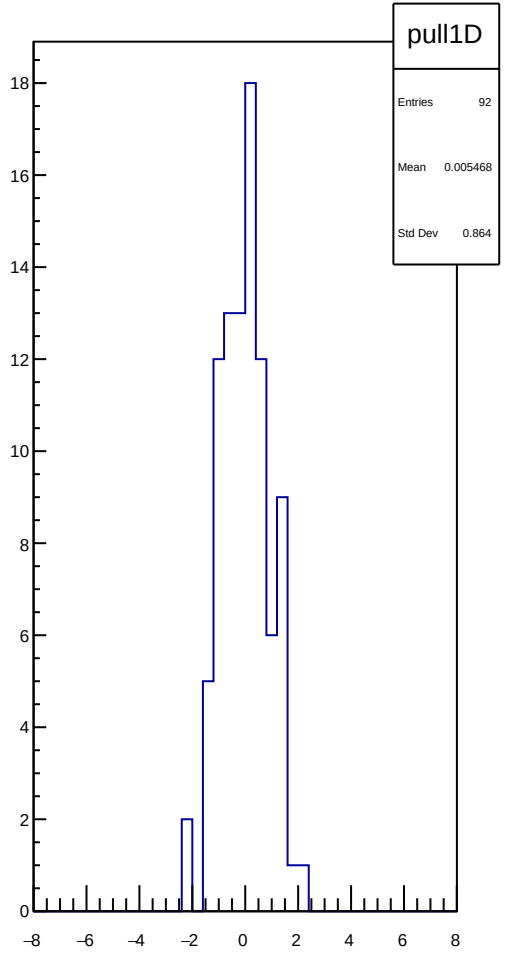

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.564e+04 / 91
p0 6751 ± 5.078
8500
8000
7500
7000
6500
6000
5500

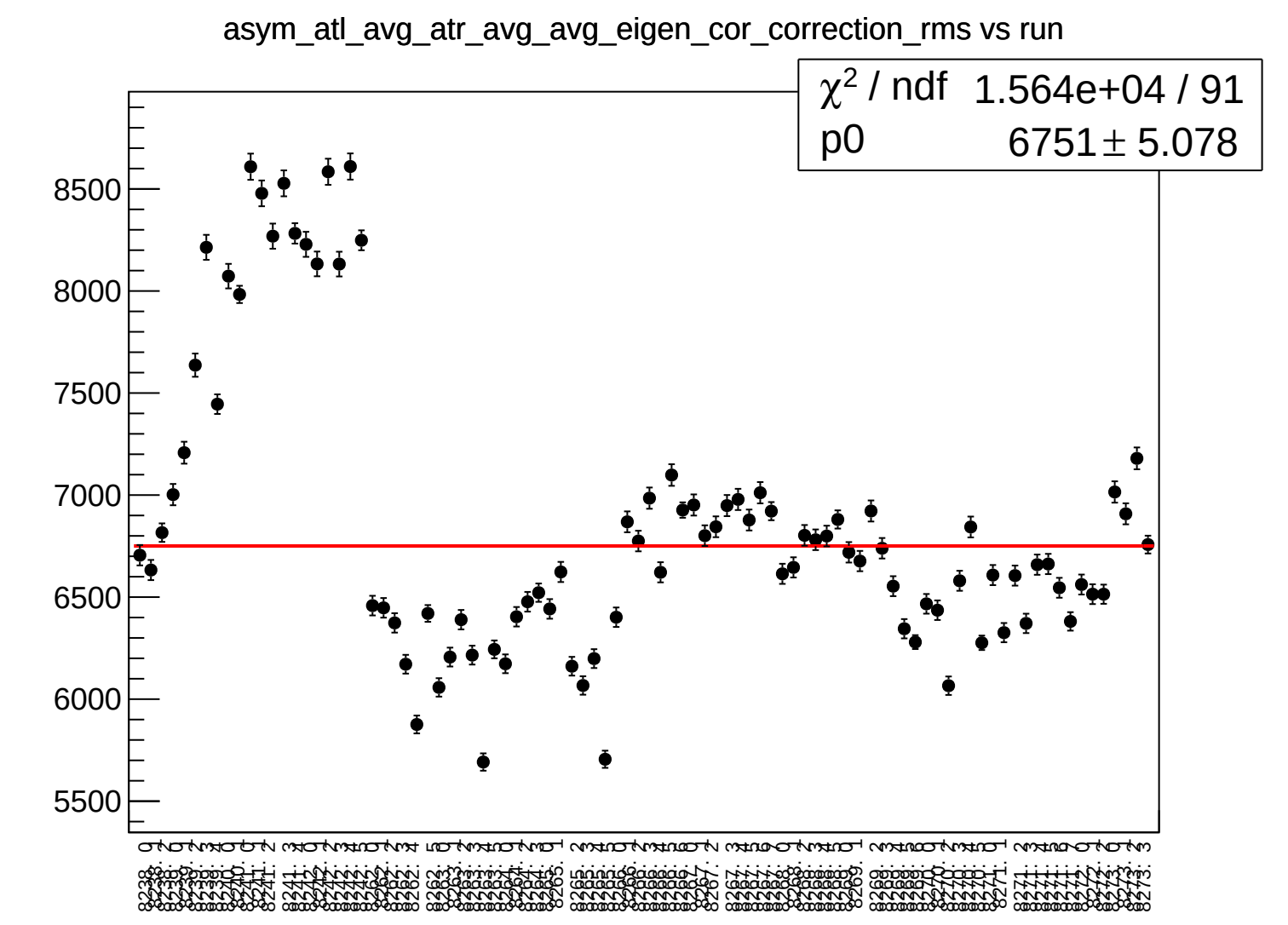

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 86.2 / 91
p0 1951 ± 1412
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1.2e+04
Std Dev 0
2
1
0
−1
−2

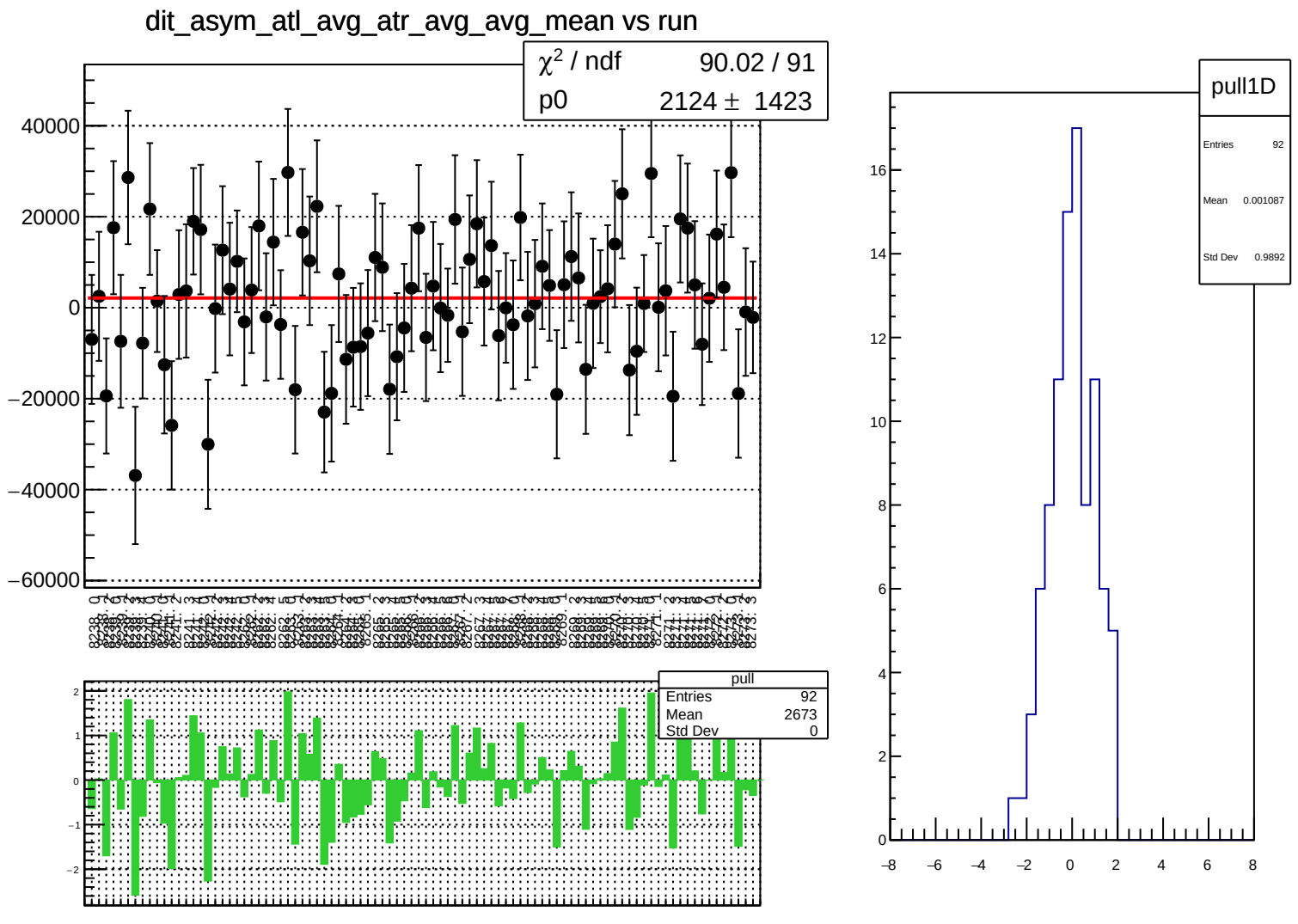

pull1D
Entries 92
Mean −0.0002324
Std Dev 0.968
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

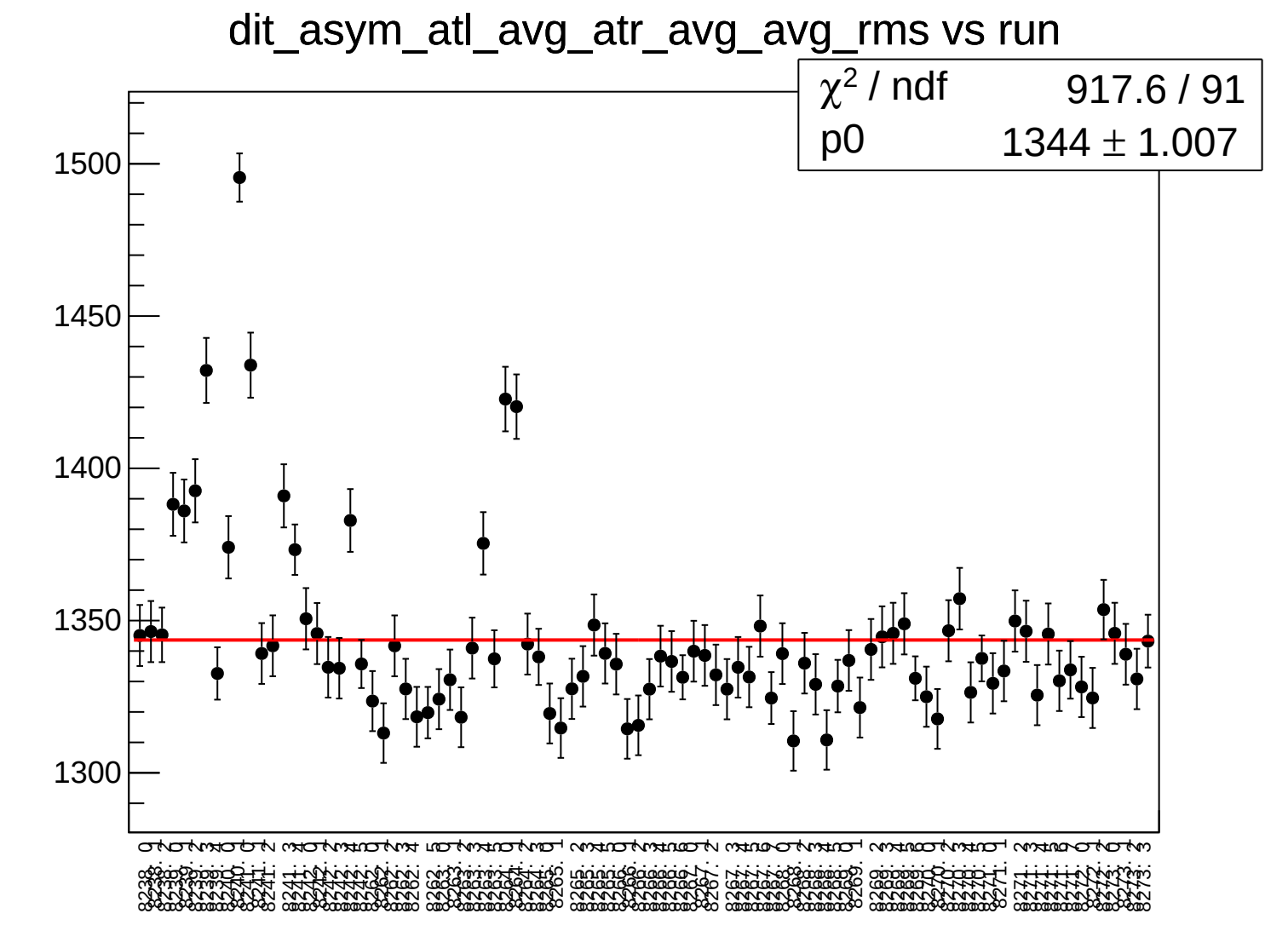

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 905.9 / 91
p0 1333 ± 0.9986
1500
1450
1400
1350
1300

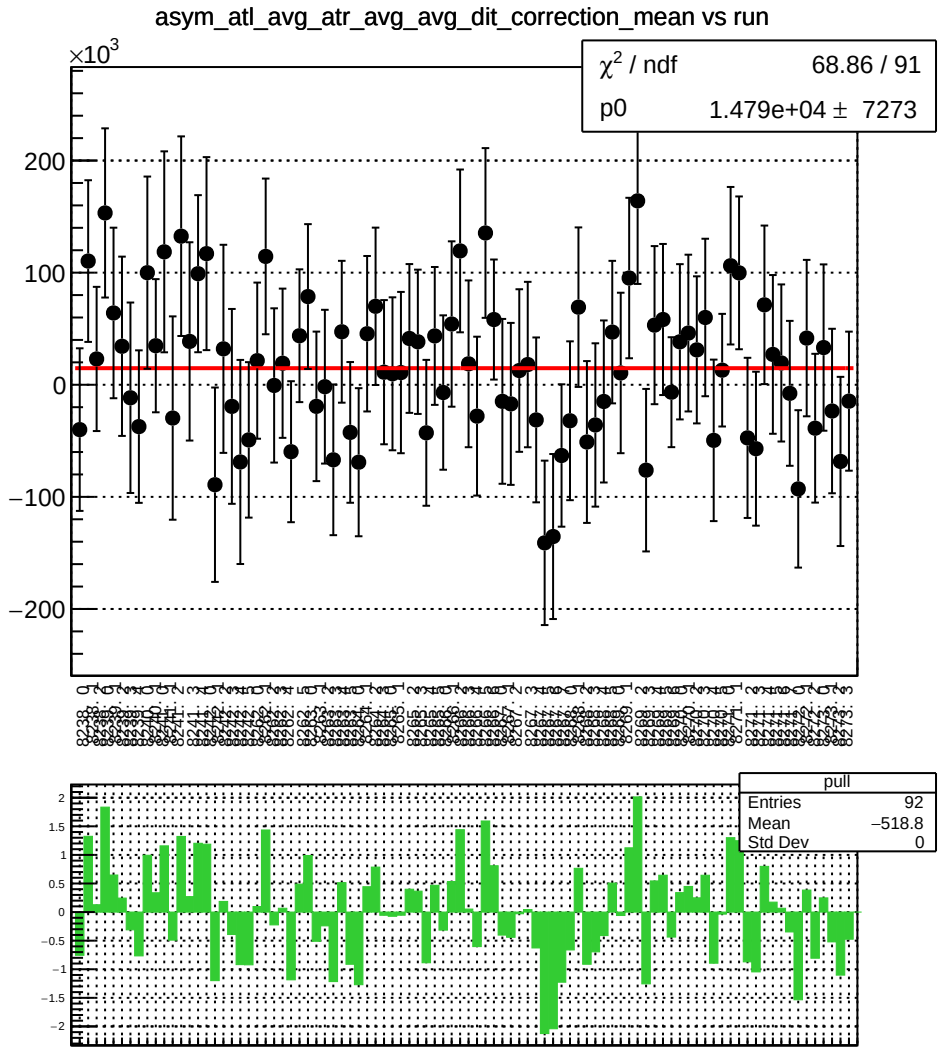

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 68.68 / 91
p0 1.474e+04 ± 7182
200
100
0
−100
−200
pull
Entries 92
Mean −643.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

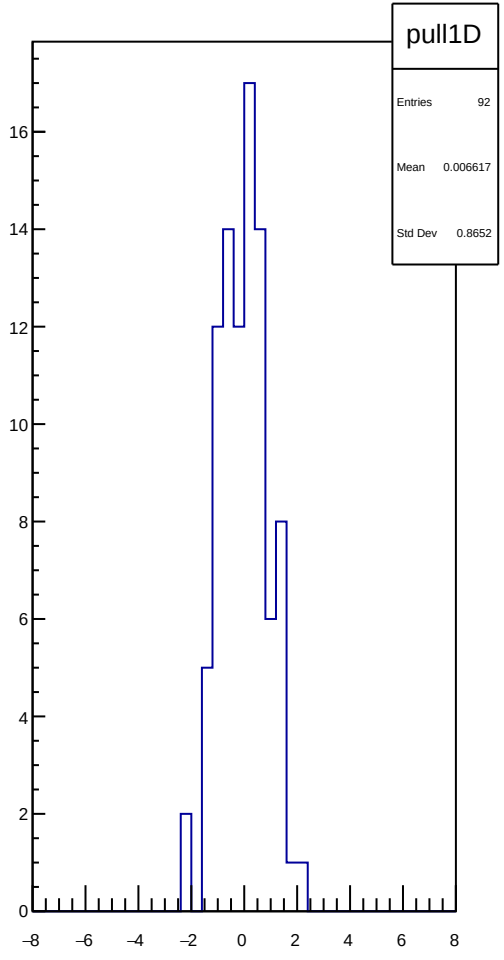

pull1D
Entries 92
Mean 0.005468
Std Dev 0.864
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

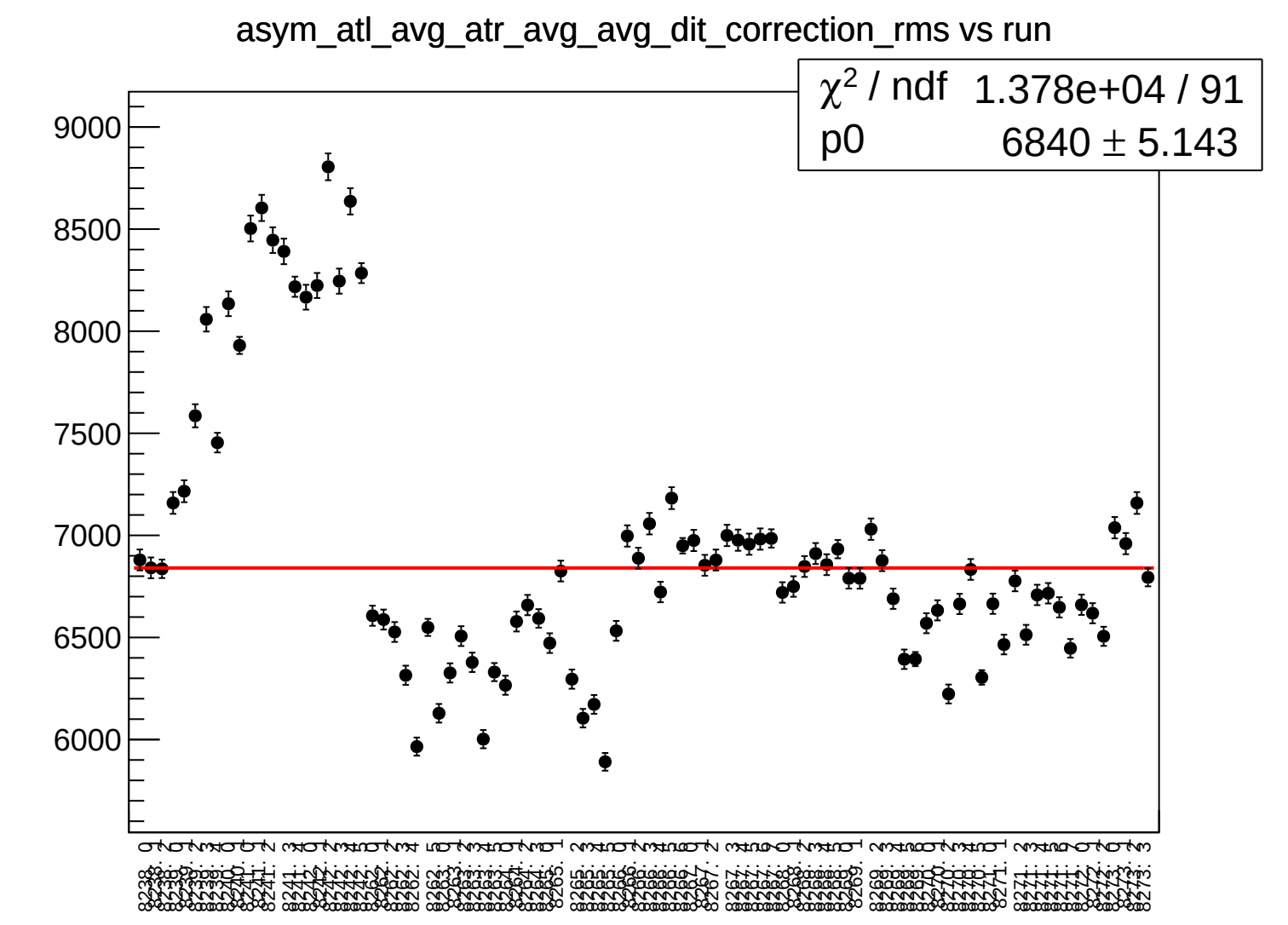

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.564e+04 / 91
p0 6751 ± 5.078
8500
8000
7500
7000
6500
6000
5500

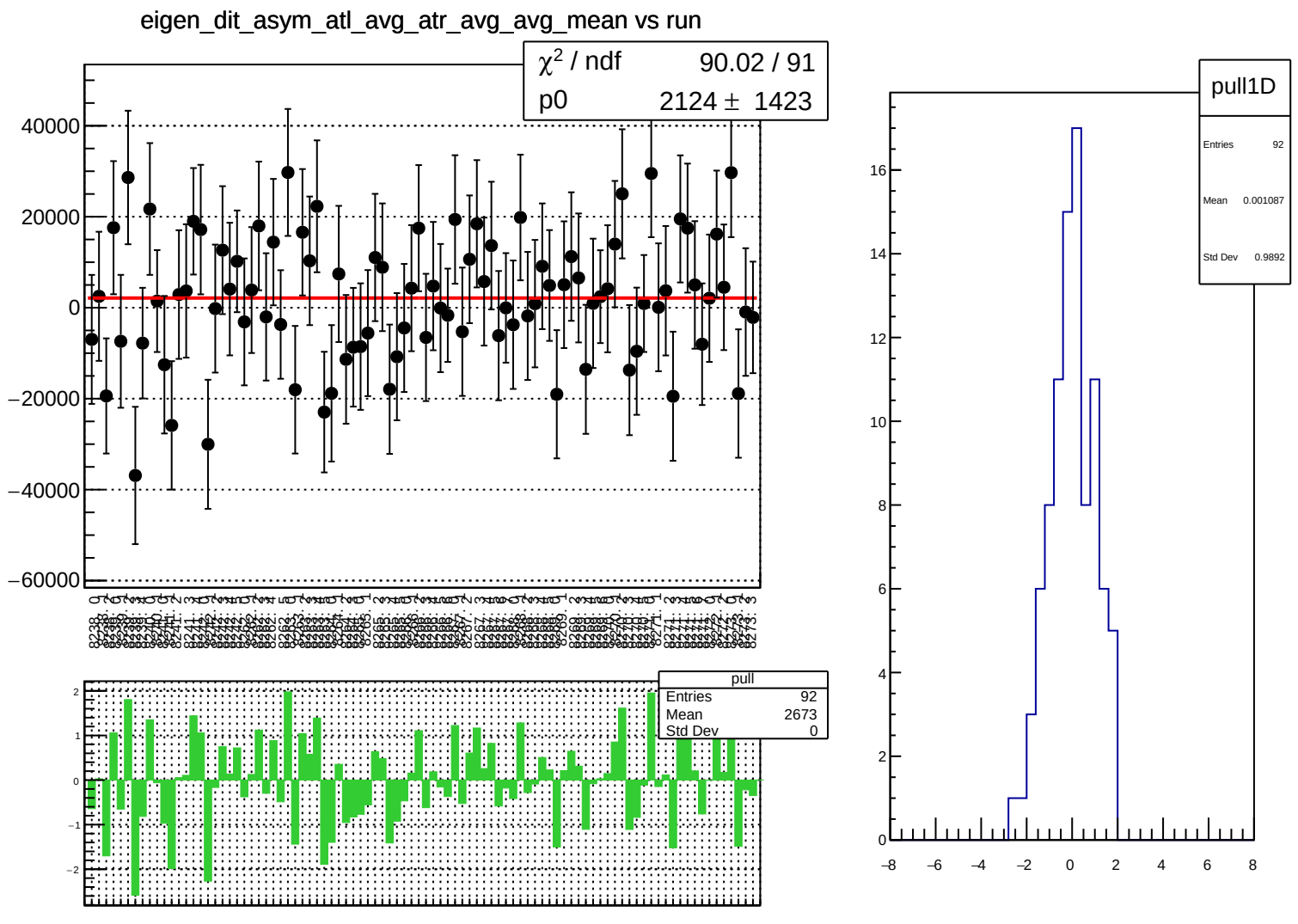

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 90.02 / 91
p0 2124 ± 1423
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 2673
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.001087
Std Dev 0.9892
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

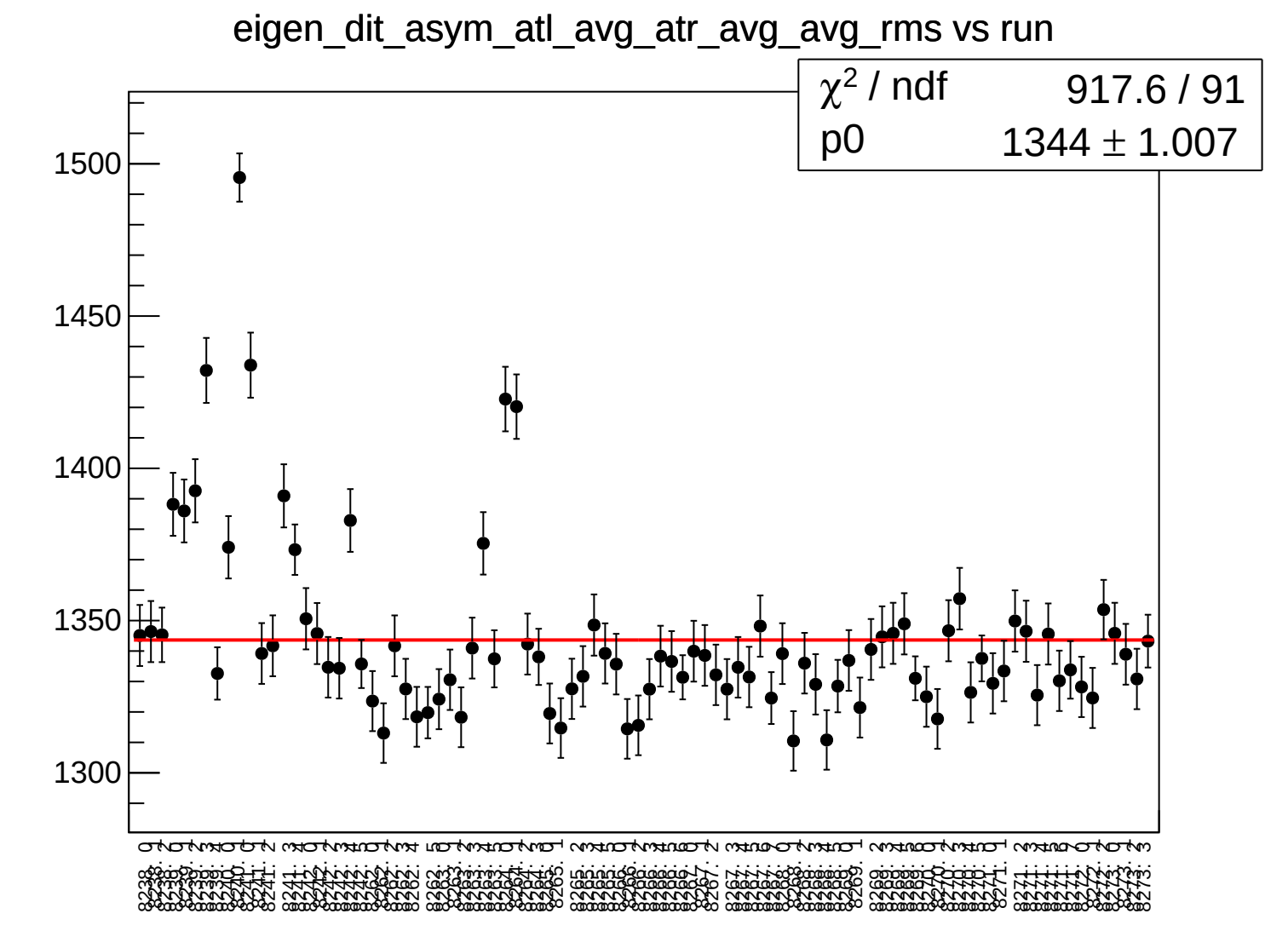

dit_asym_atl_avg_atr_avg_avg_rms vs run
$\chi^2$ / ndf 917.6 / 91
p0 1344 ± 1.007
1500
1450
1400
1350
1300

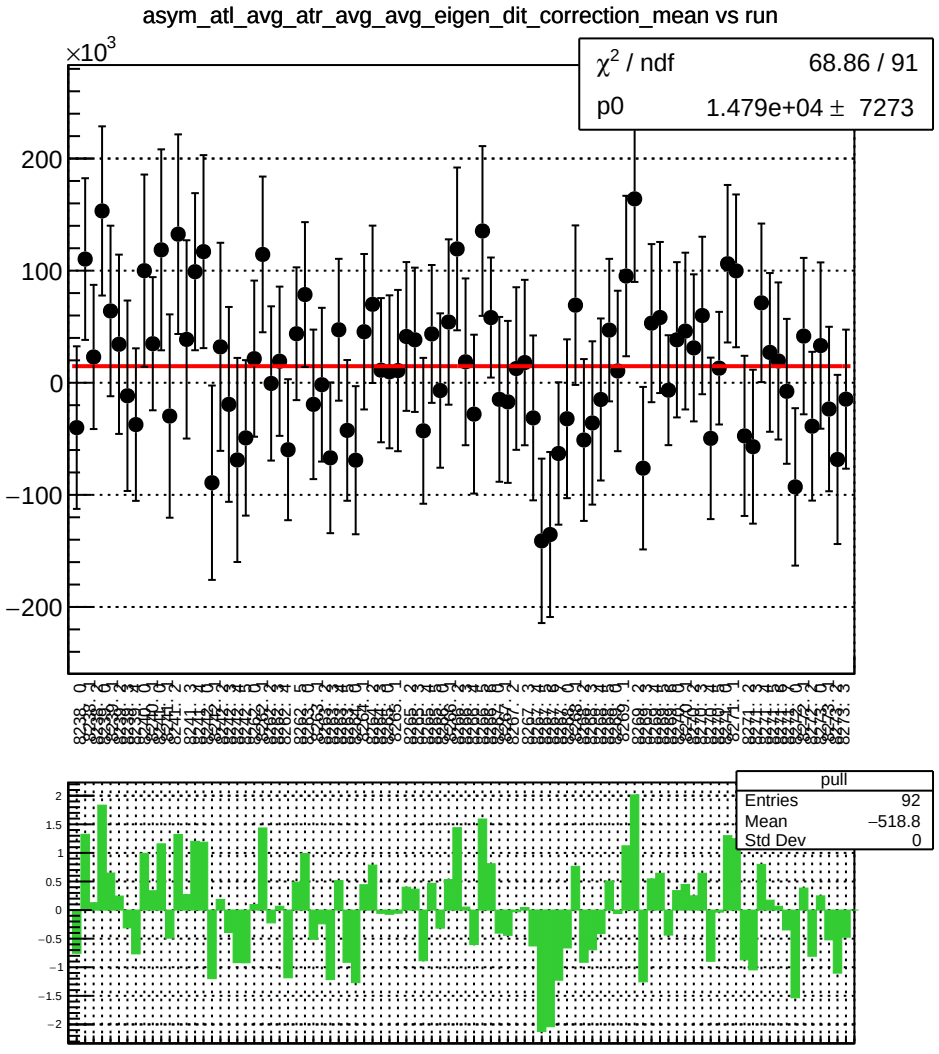

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 68.86 / 91
p0 1.479e+04 ± 7273
200
100
0
−100
−200
pull
Entries 92
Mean −518.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

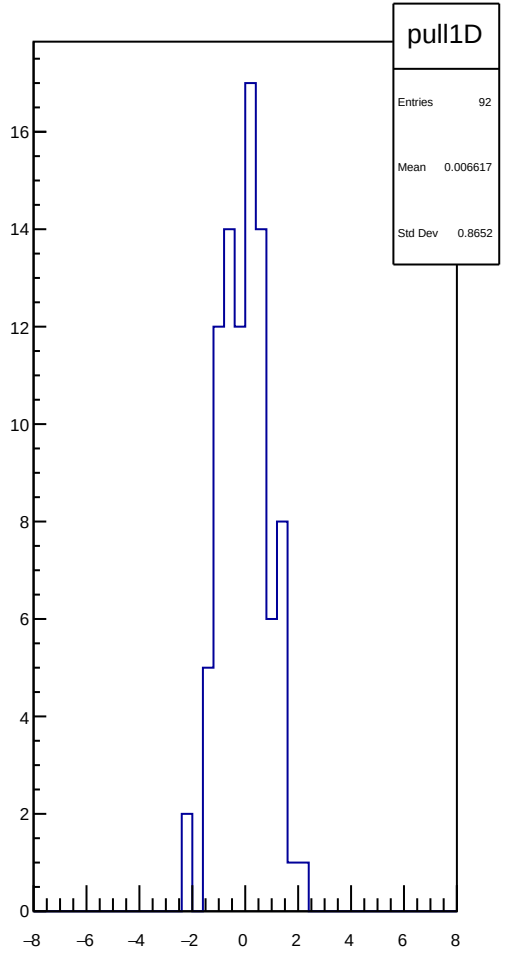

pull1D
Entries 92
Mean 0.006617
Std Dev 0.8652
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

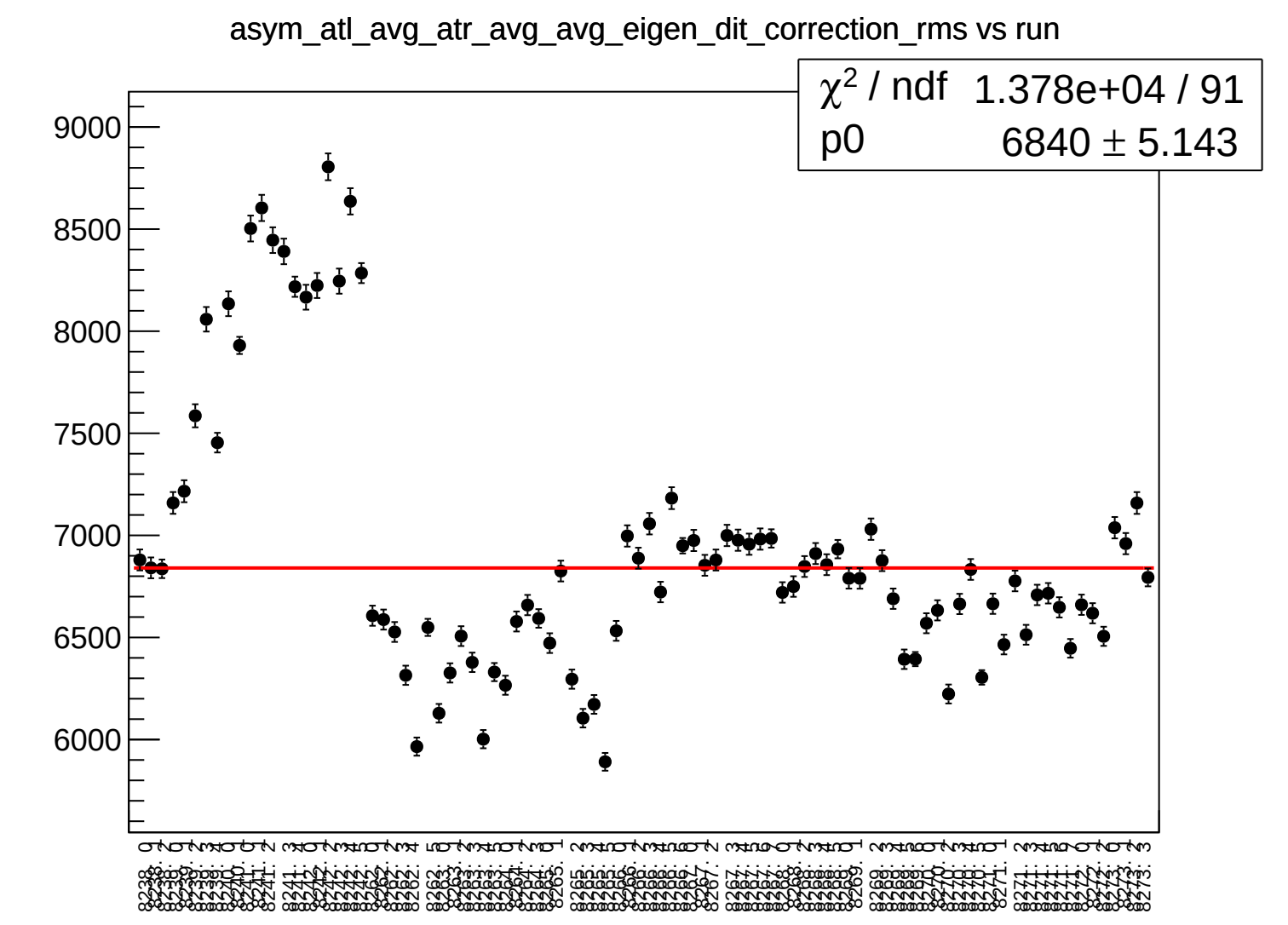

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.378e+04 / 91
p0 6840 ± 5.143
9000
8500
8000
7500
7000
6500
6000

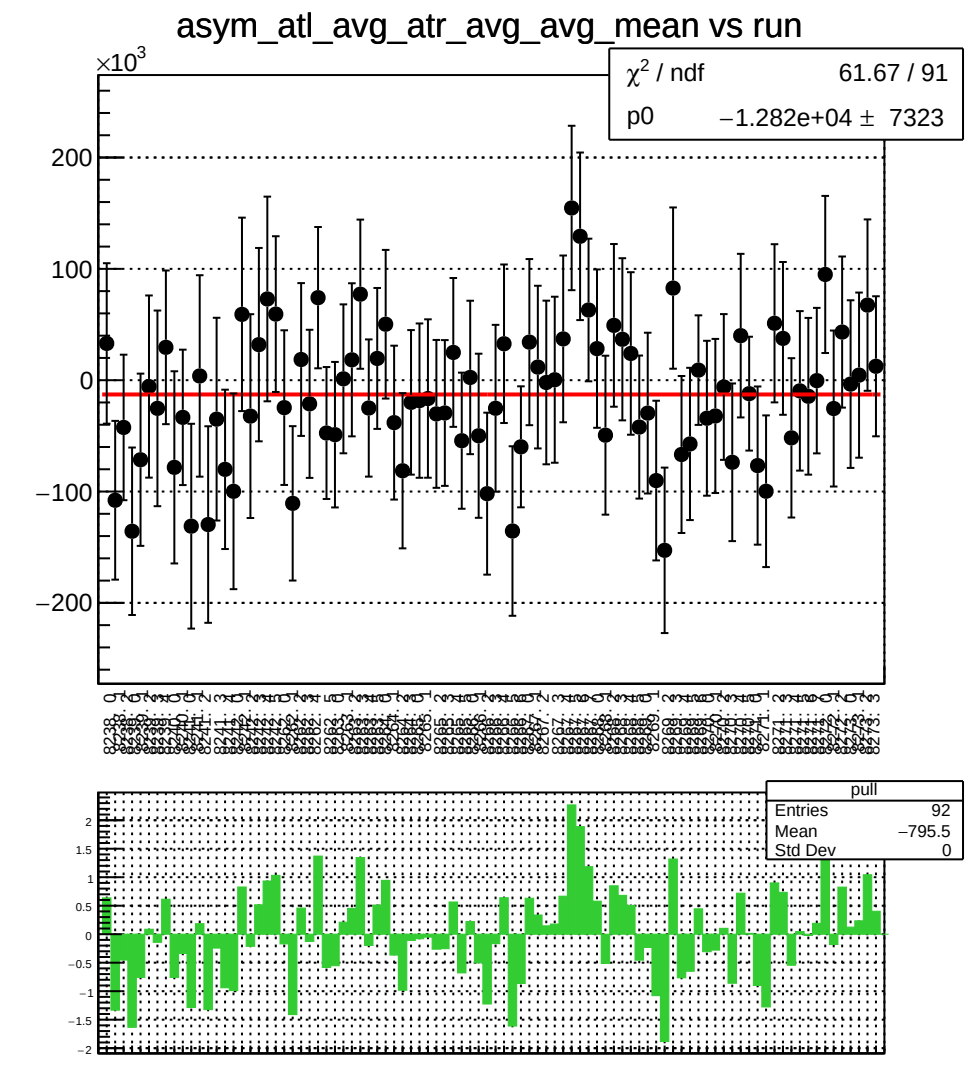

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 90.02 / 91
p0 2124 ± 1423
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 2673
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.001087
Std Dev 0.9892
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

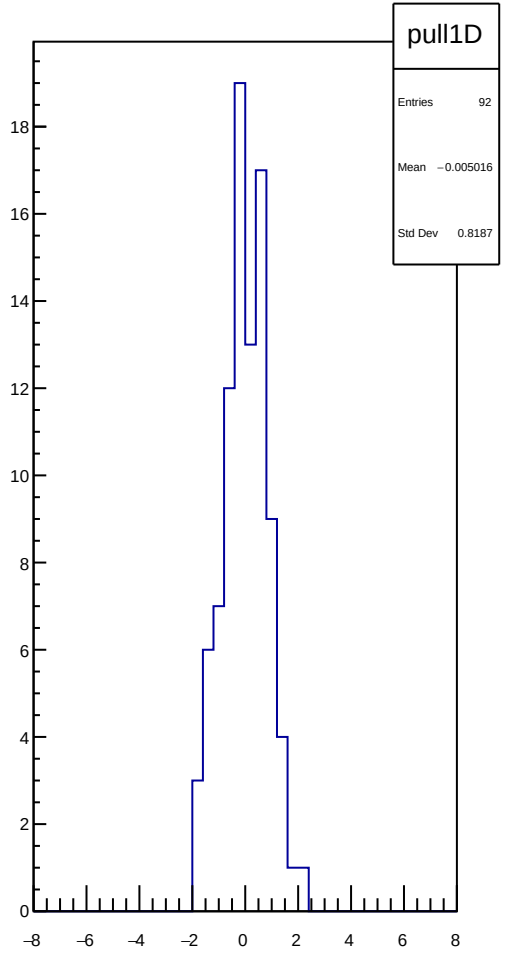

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 917.6 / 91
p0 1344 ± 1.007
1500
1450
1400
1350
1300

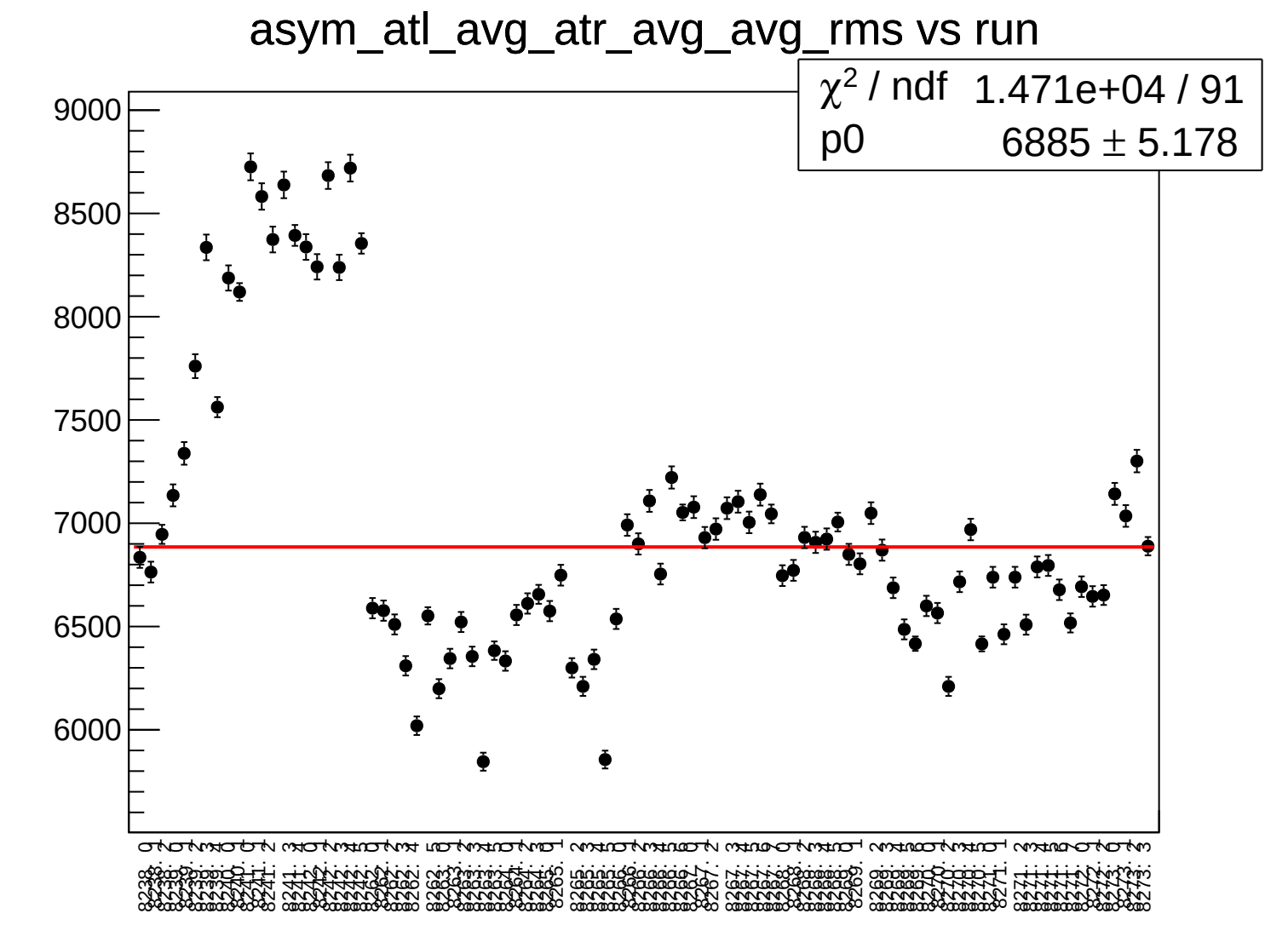

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.86 / 91
p0 1.479e+04 ± 7273
200
100
0
−100
−200
pull
Entries 92
Mean −518.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

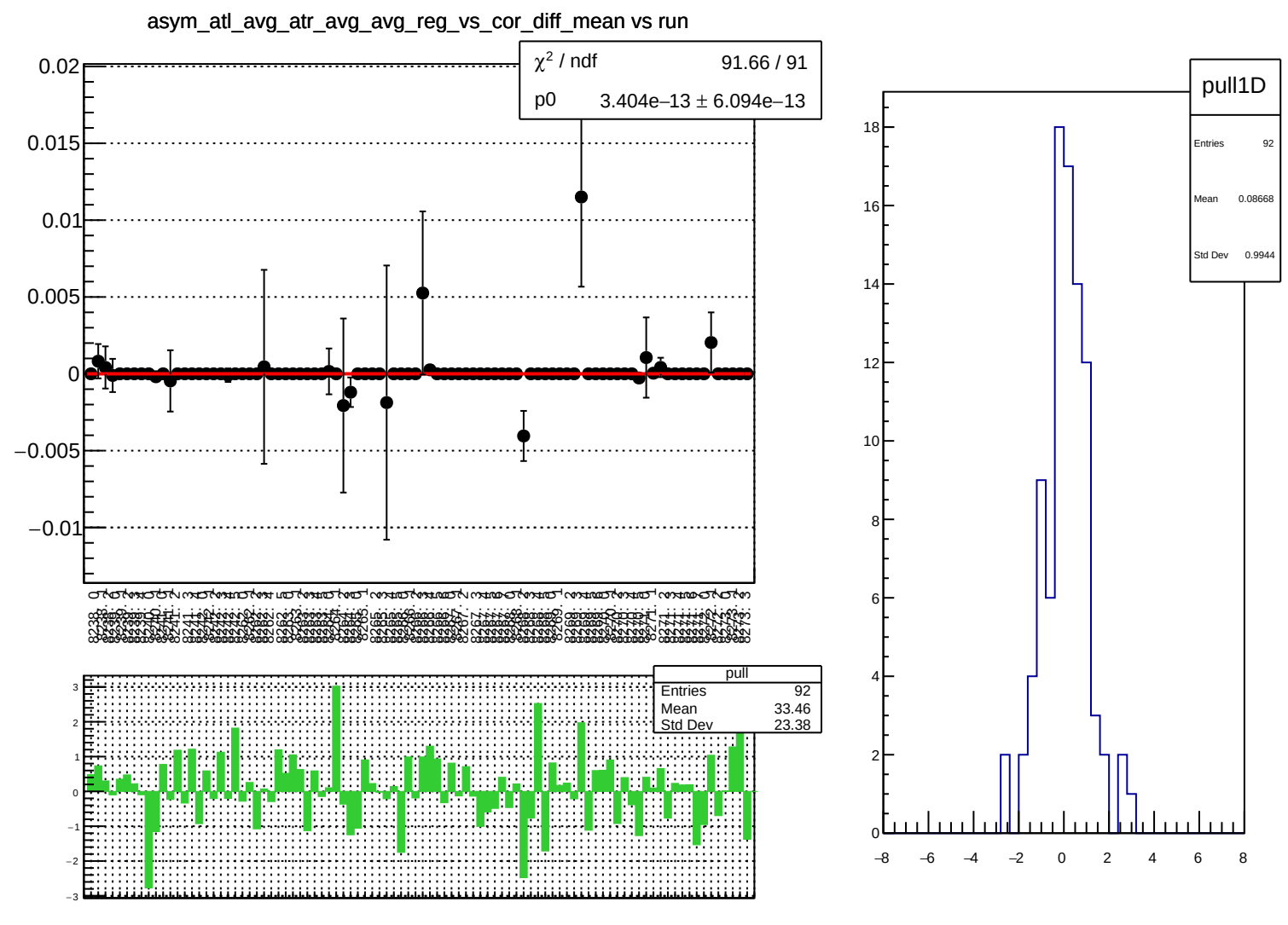

pull1D
Entries 92
Mean 0.006617
Std Dev 0.8652
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

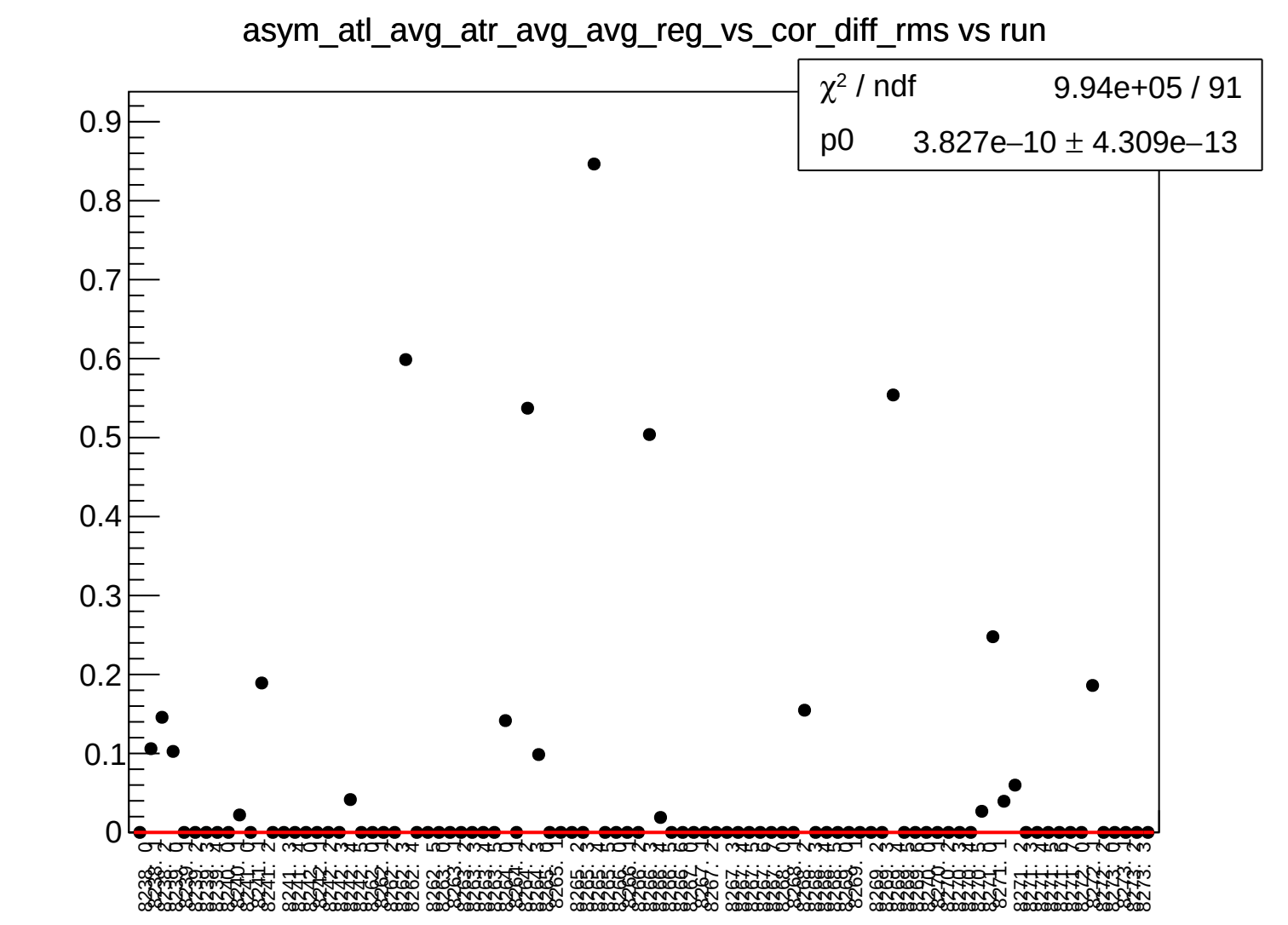

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.378e+04 / 91
p0 6840 ± 5.143
9000
8500
8000
7500
7000
6500
6000

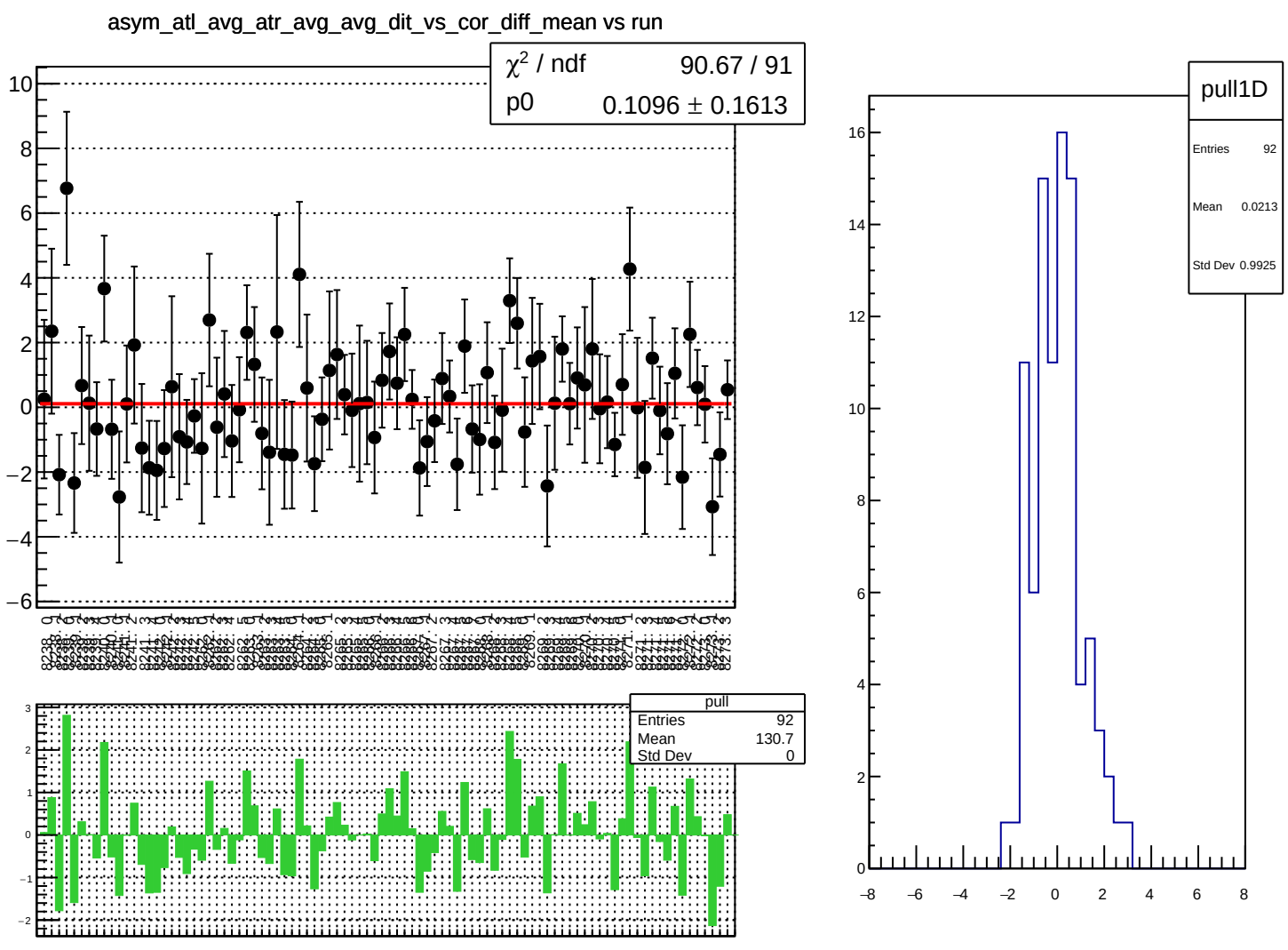

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 61.67 / 91
p0 −1.282e+04 ± 7323
200
100
0
−100
−200
pull
Entries 92
Mean −795.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

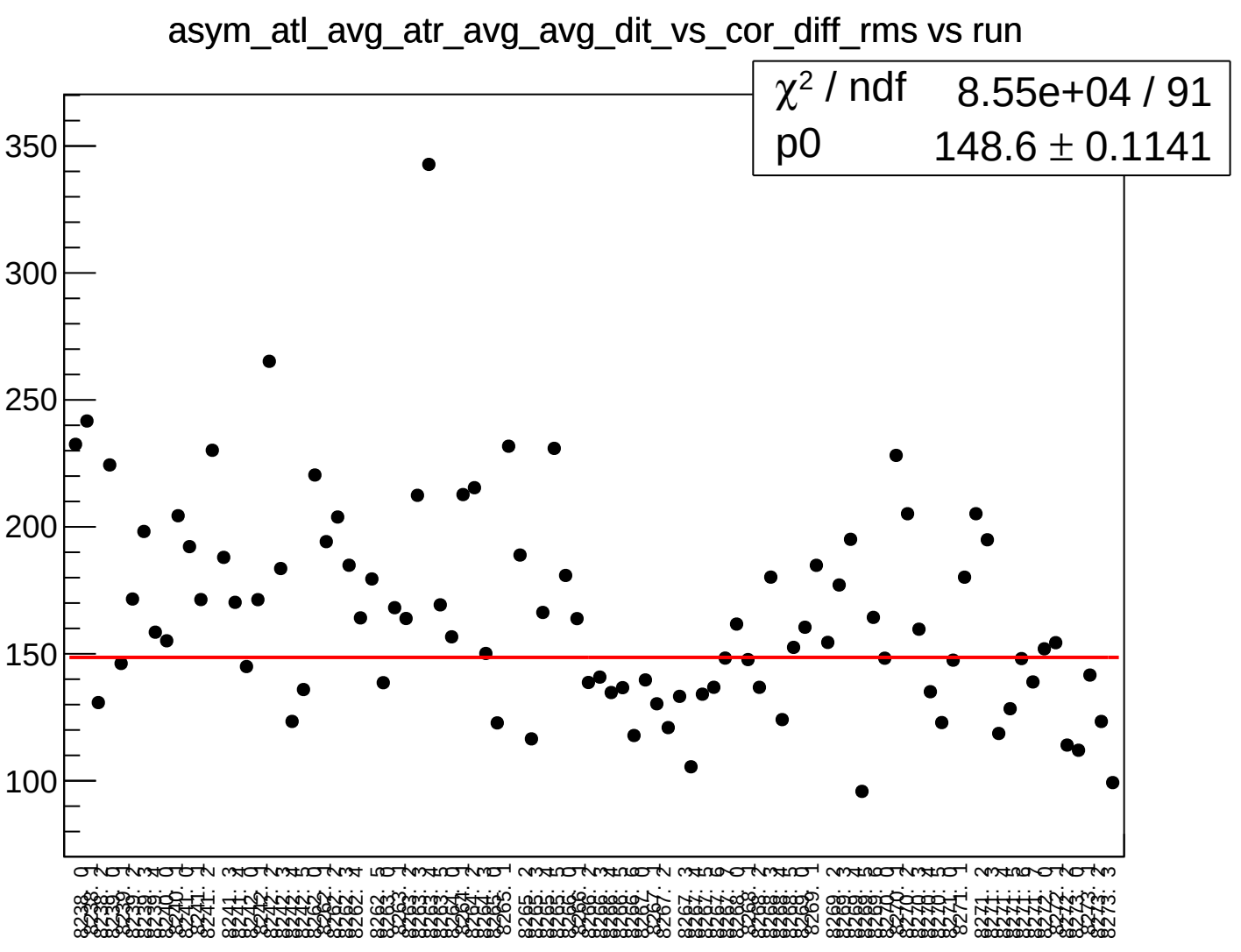

pull1D
Entries 92
Mean −0.005016
Std Dev 0.8187
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

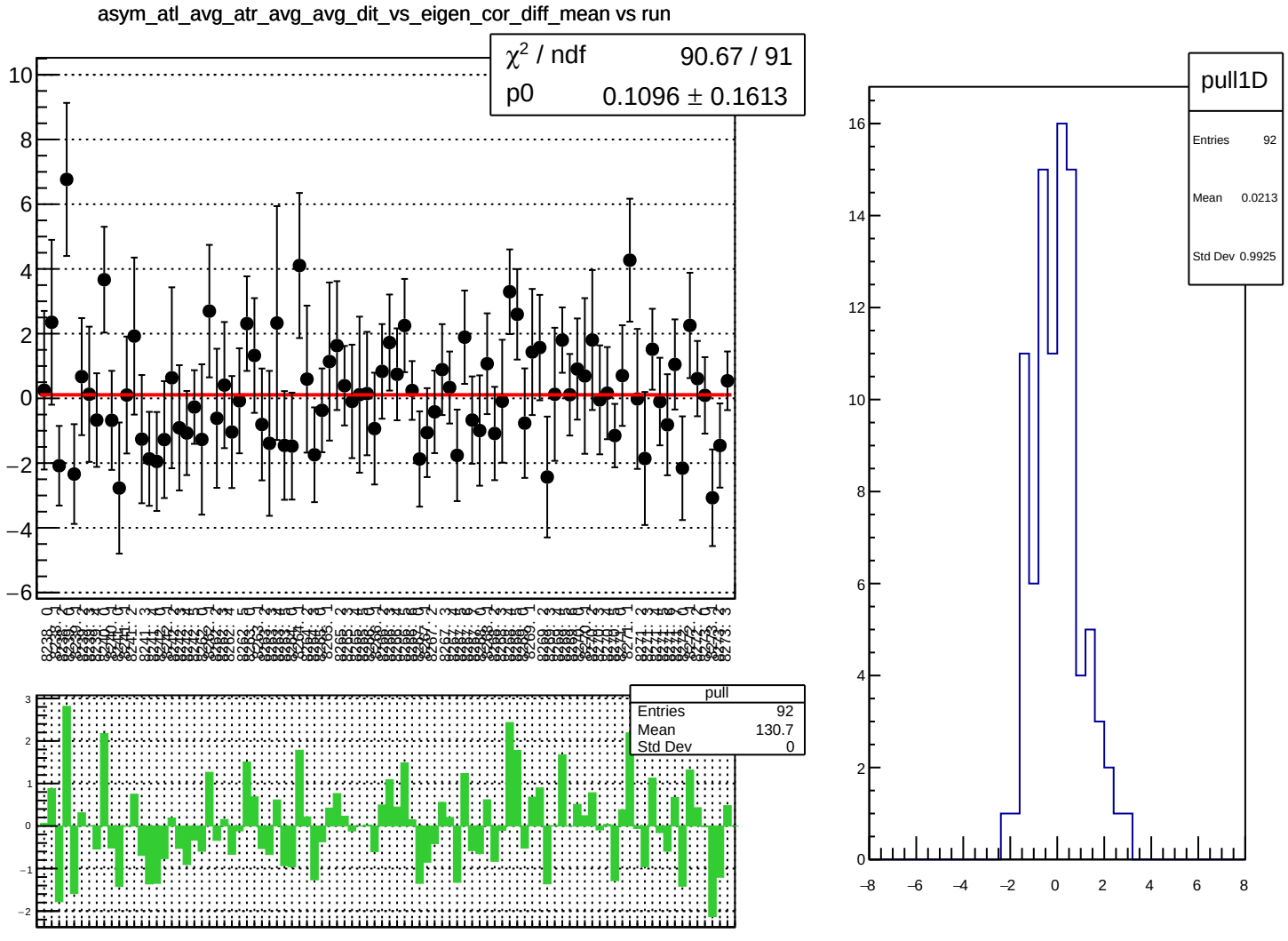

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.471e+04 / 91
p0 6885 ± 5.178
9000
8500
8000
7500
7000
6500
6000

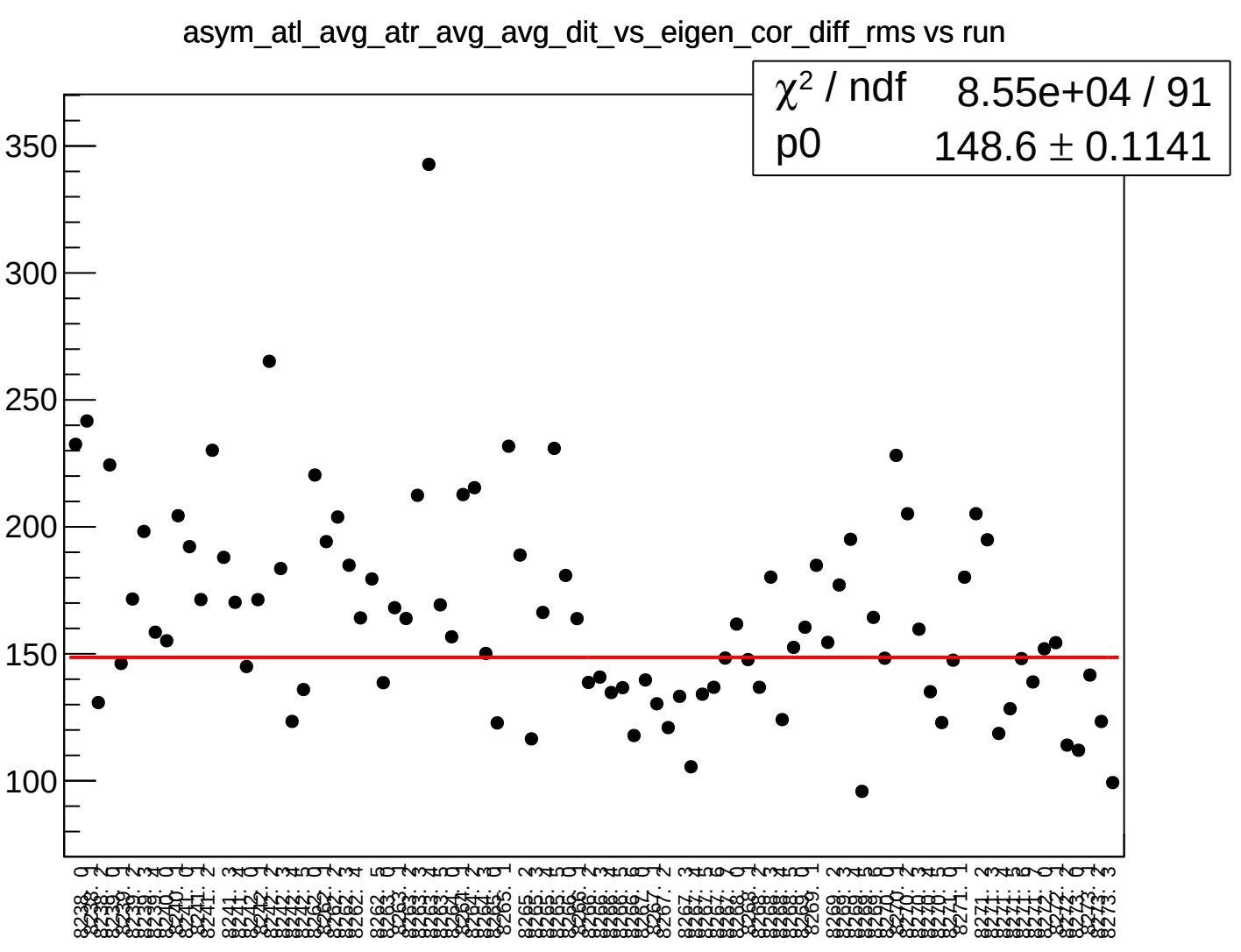

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.66 / 91
p0 3.404e−13 ± 6.094e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 92
Mean 33.46
Std Dev 23.38
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.08668
Std Dev 0.9944
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

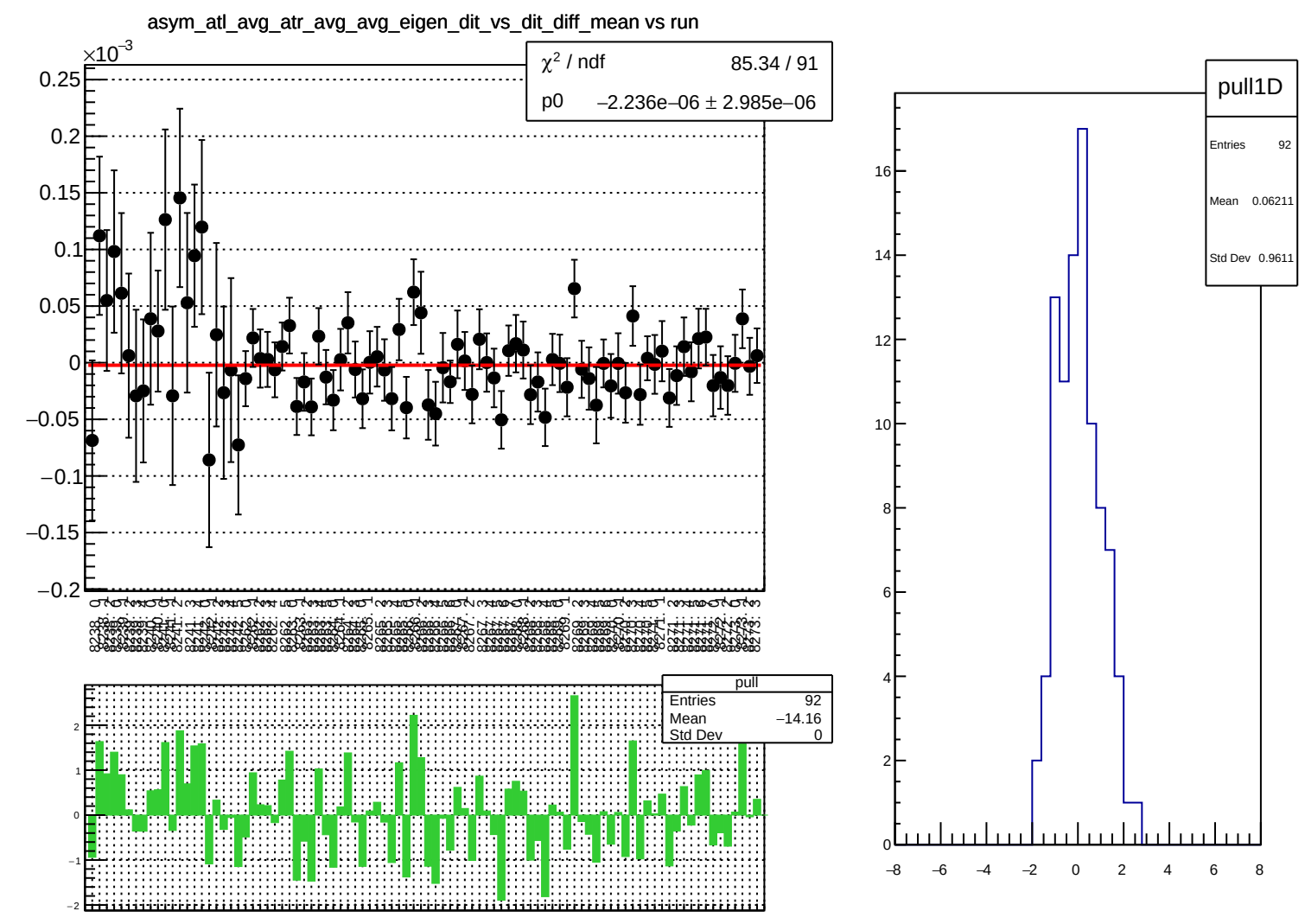

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.94e+05 / 91
p0 3.827e−10 ± 4.309e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

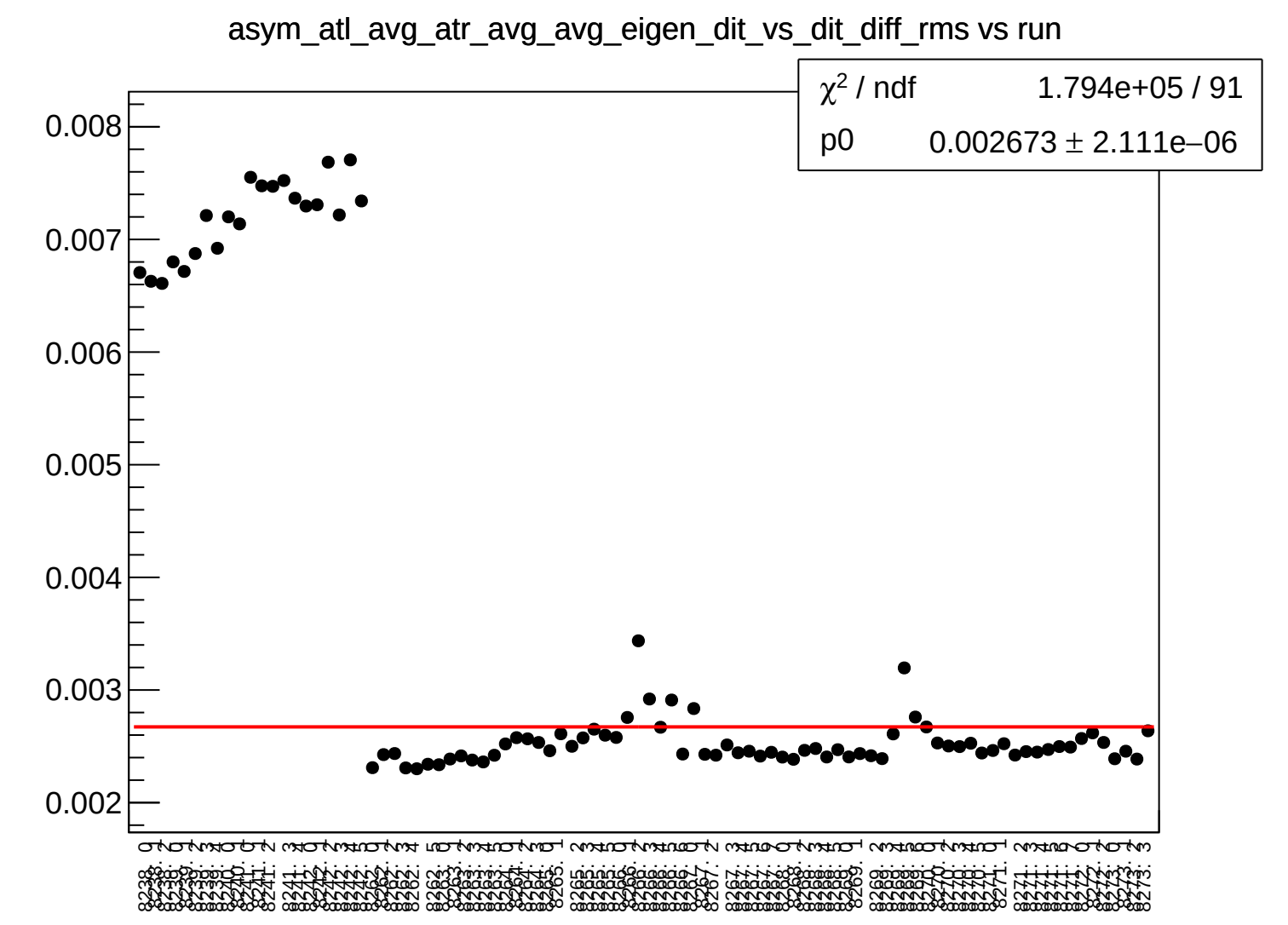

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.67 / 91
p0 0.1096 ± 0.1613
pull
Entries 92
Mean 130.7
Std Dev 0
pull1D
Entries 92
Mean 0.0213
Std Dev 0.9925

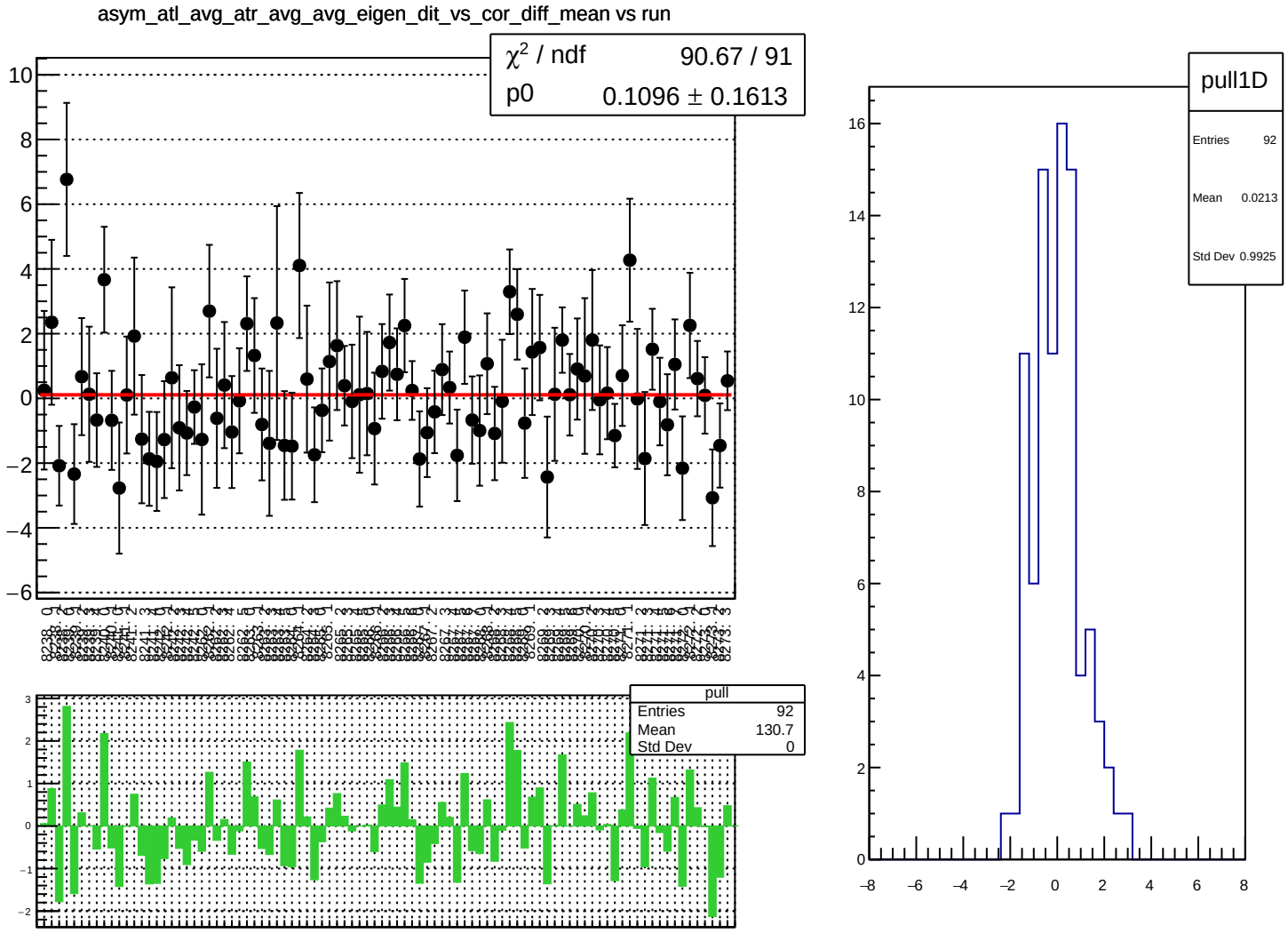

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.55e+04 / 91
p0 148.6 ± 0.1141
350
300
250
200
150
100

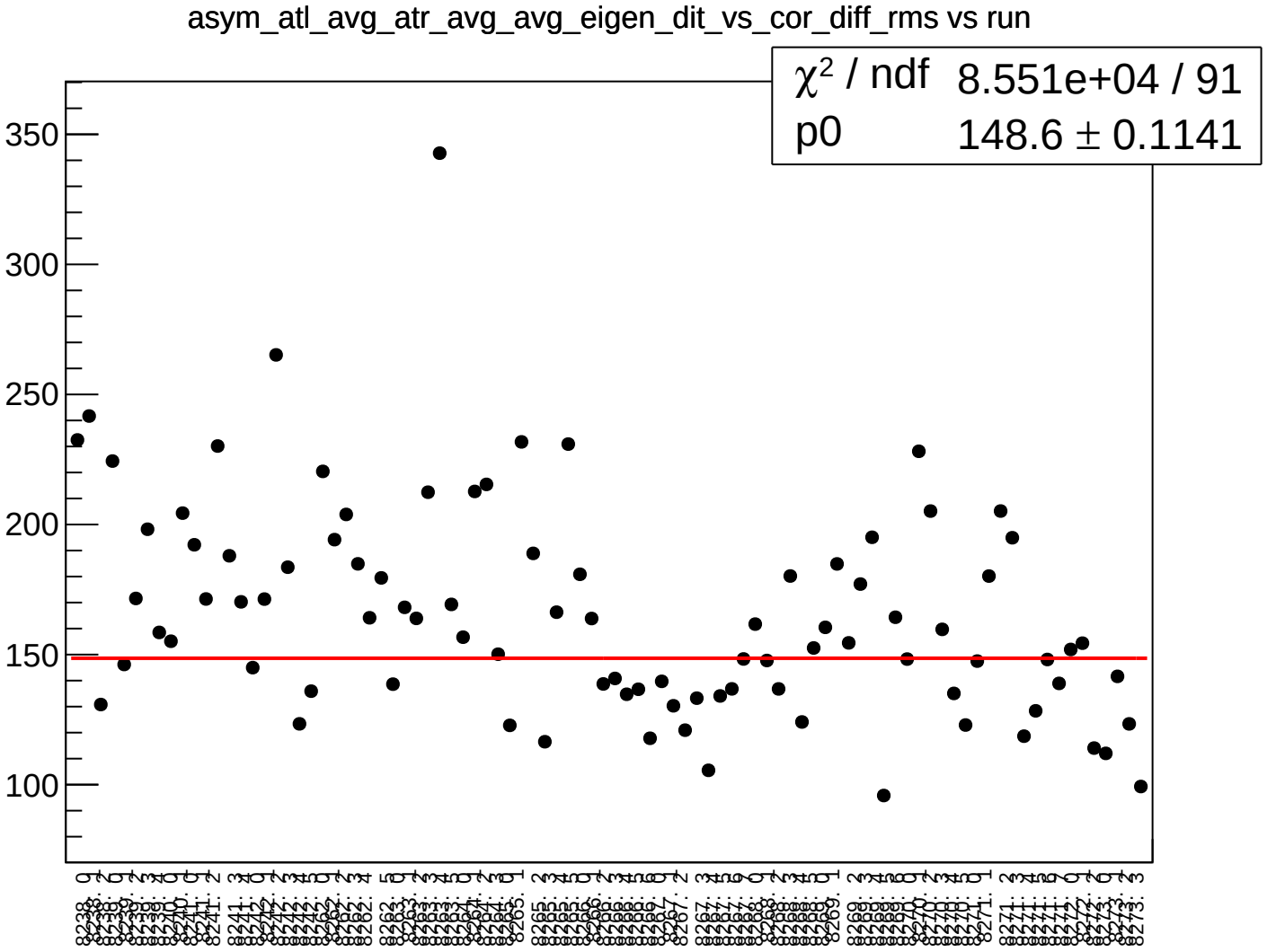

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.67 / 91
p0 0.1096 ± 0.1613
pull
Entries 92
Mean 130.7
Std Dev 0
pull1D
Entries 92
Mean 0.0213
Std Dev 0.9925

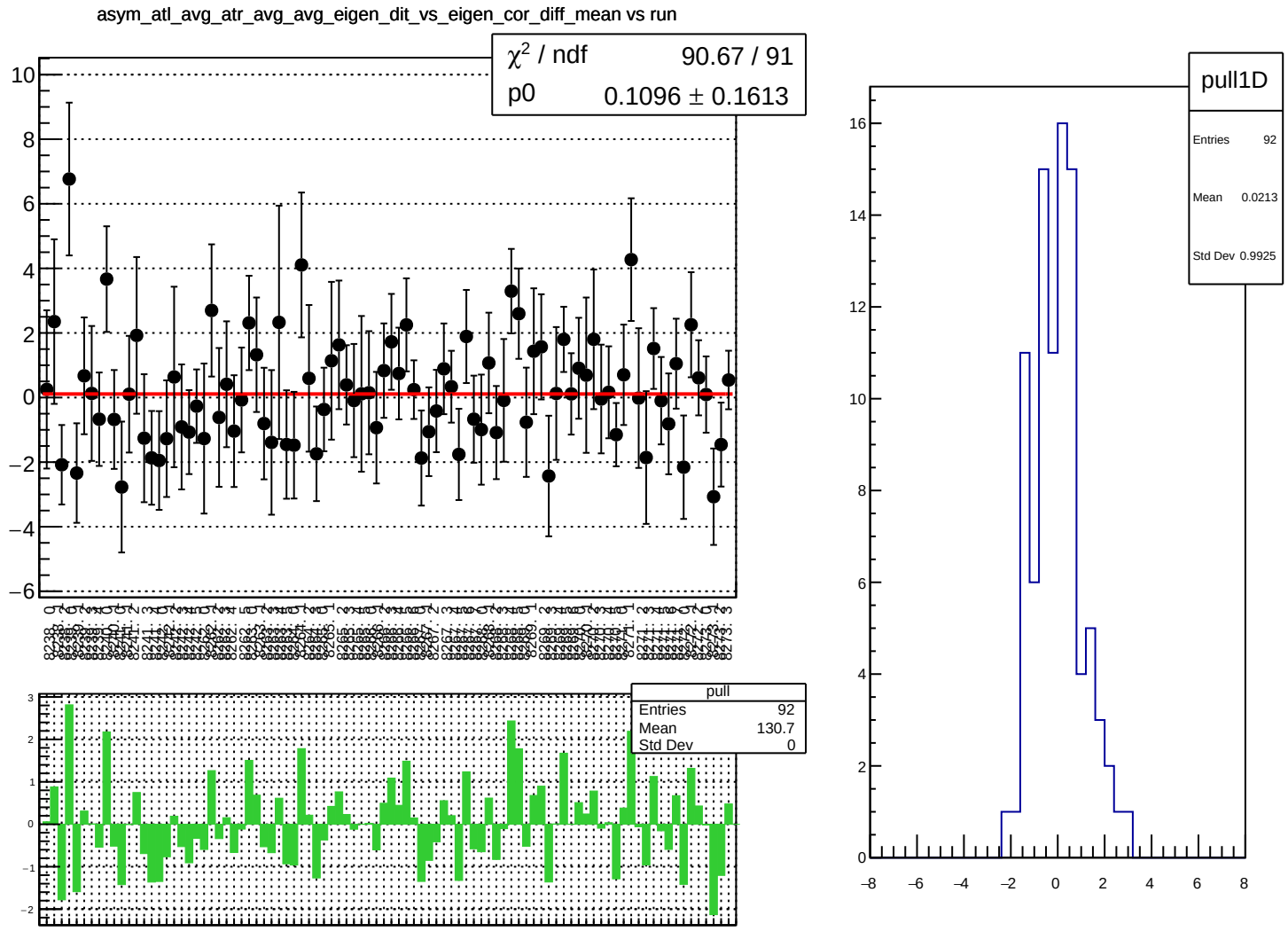

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.55e+04 / 91
p0 148.6 ± 0.1141
350
300
250
200
150
100

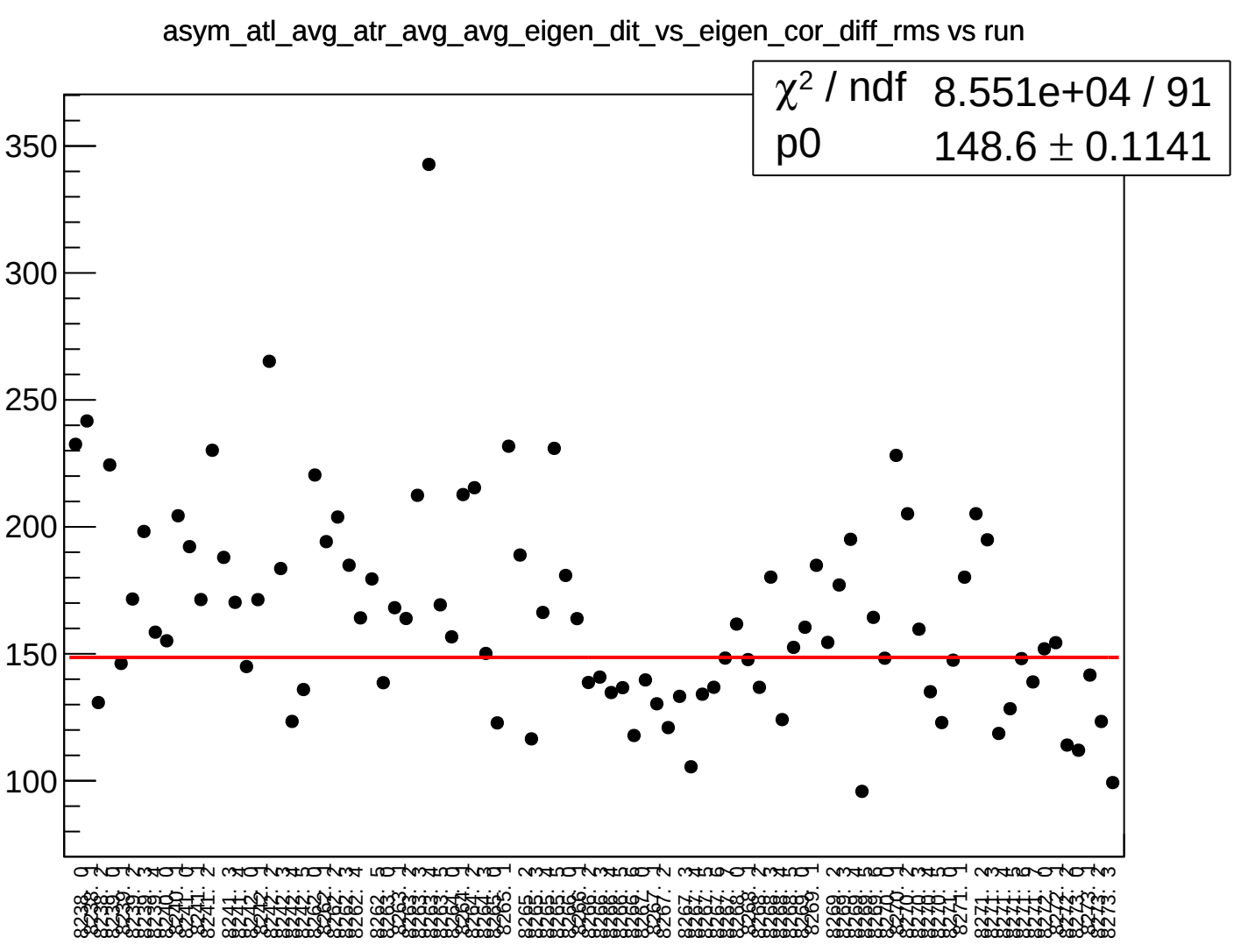

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.34 / 91
p0 −2.236e−06 ± 2.985e−06
pull
Entries 92
Mean −14.16
Std Dev 0
pull1D
Entries 92
Mean 0.06211
Std Dev 0.9611

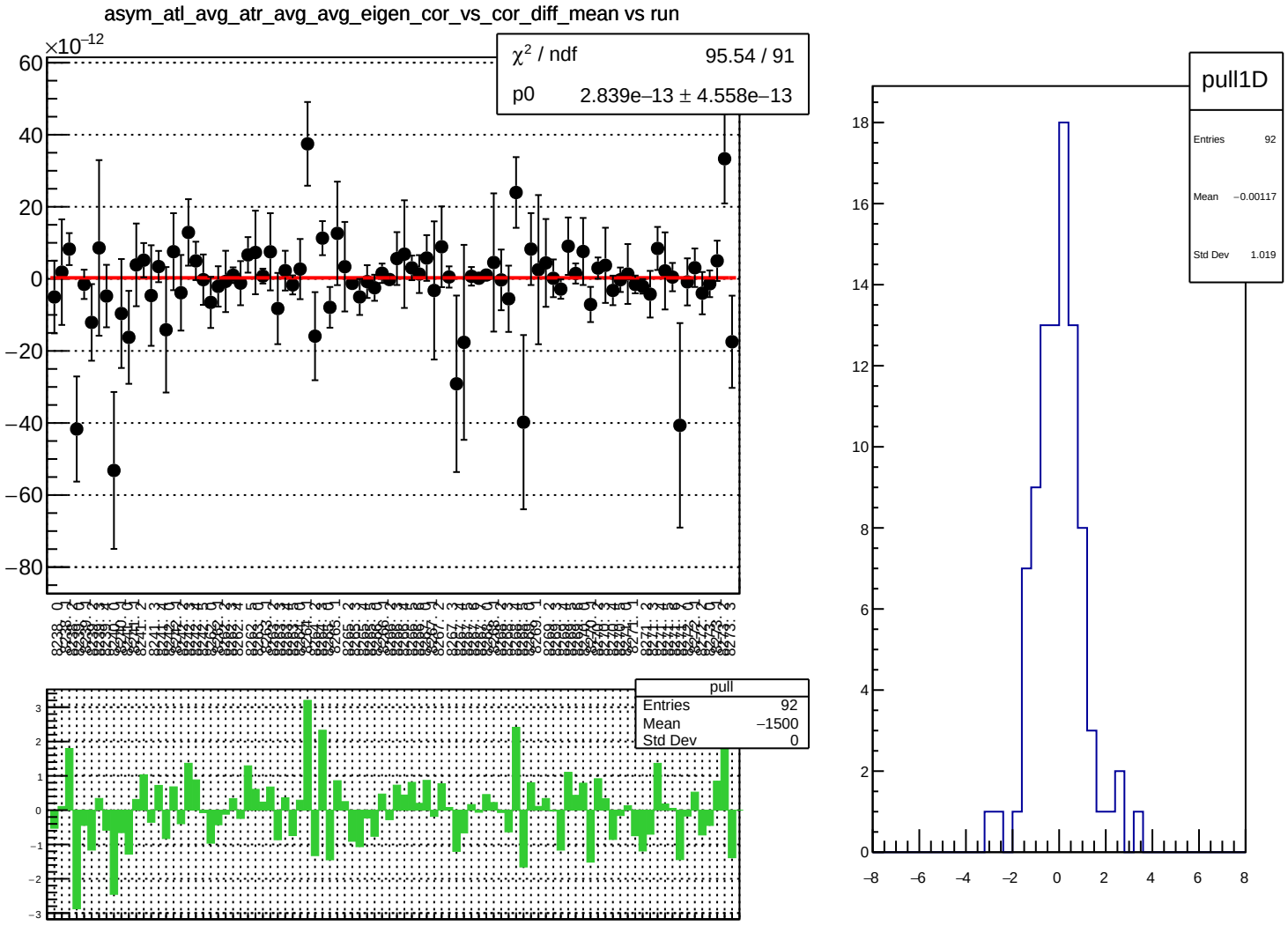

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.794e+05 / 91
p0 0.002673 ± 2.111e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

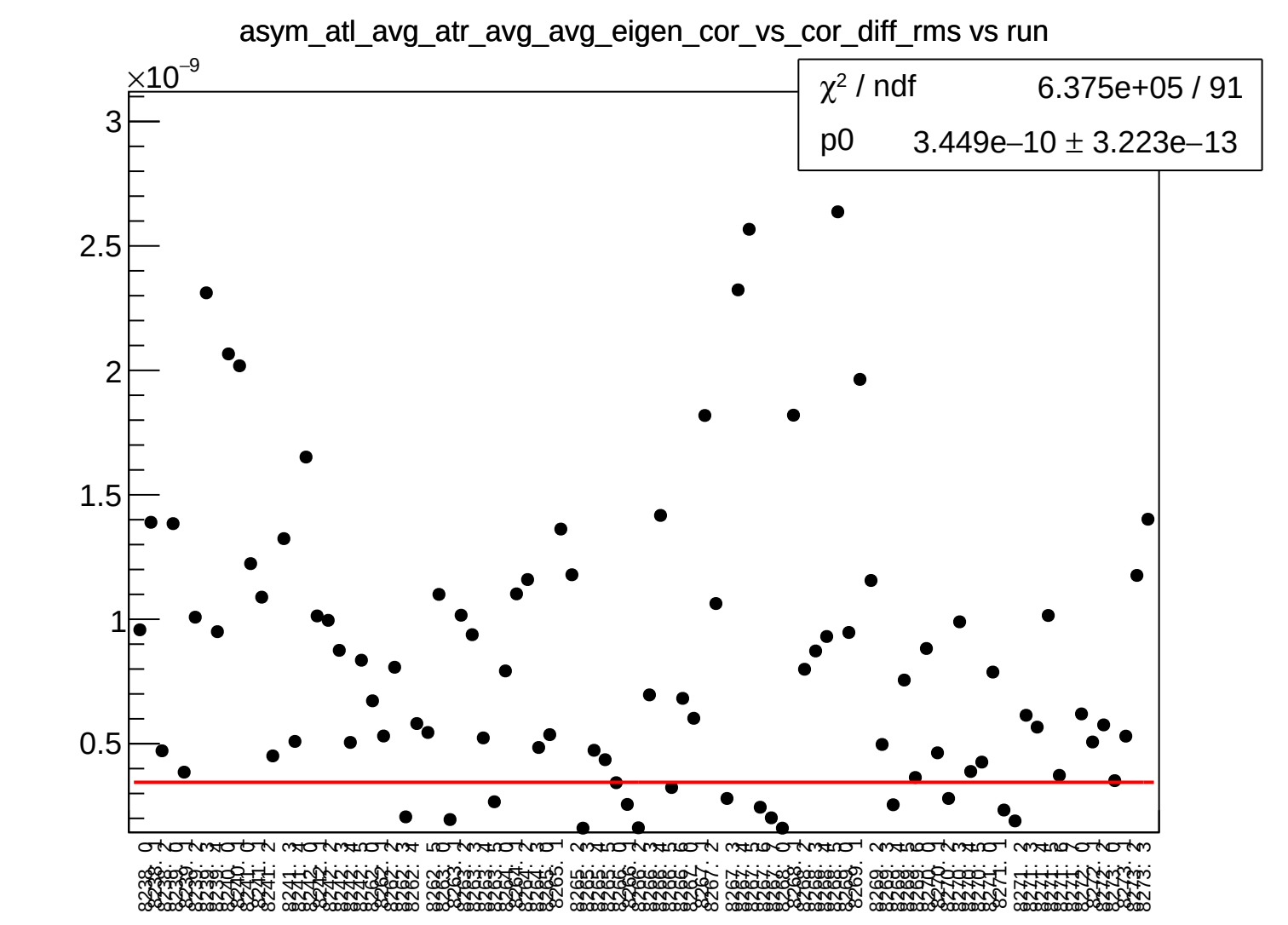

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.67 / 91
p0 0.1096 ± 0.1613
pull
Entries 92
Mean 130.7
Std Dev 0
pull1D
Entries 92
Mean 0.0213
Std Dev 0.9925

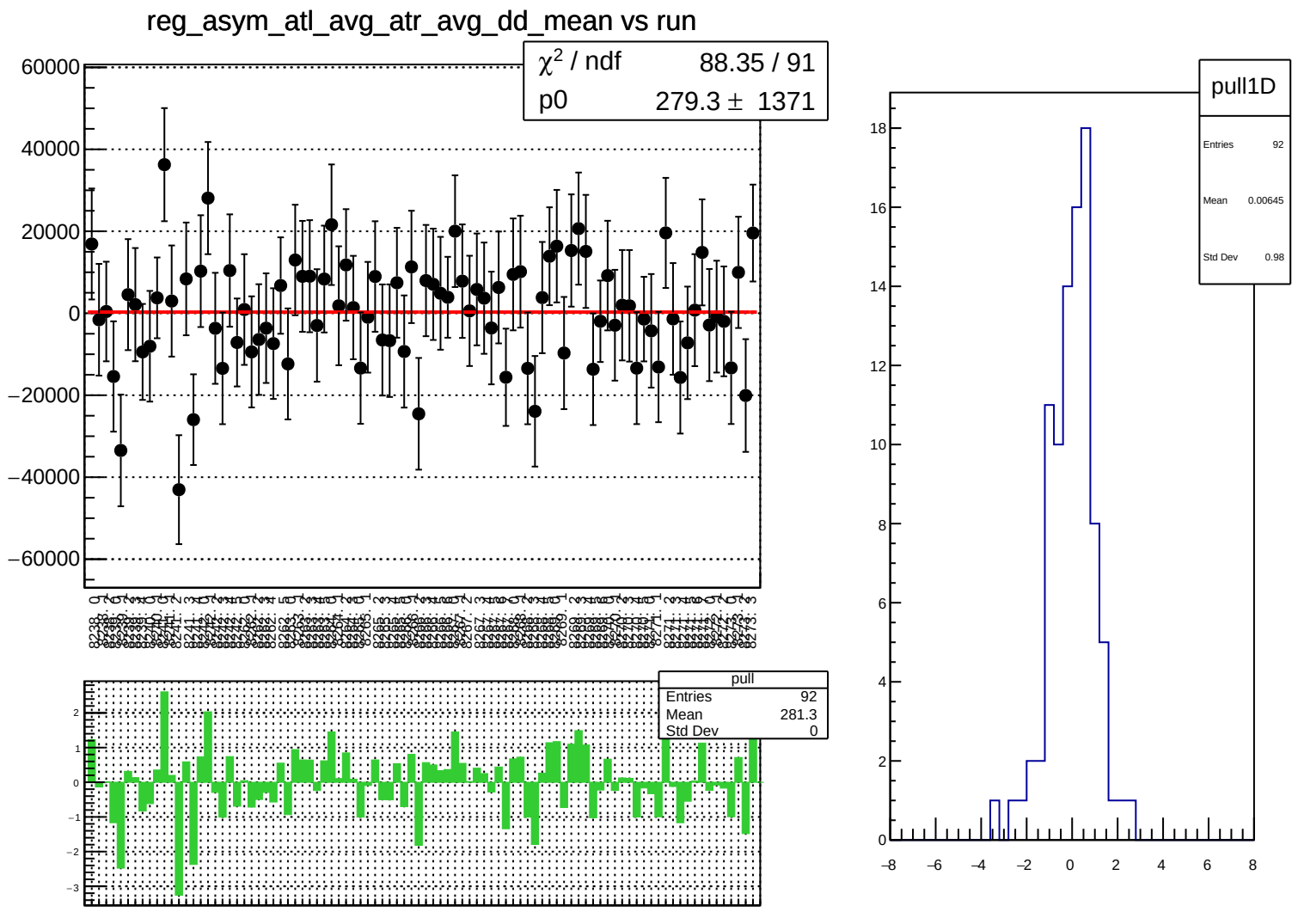

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.551e+04 / 91
p0 148.6 ± 0.1141
350
300
250
200
150
100

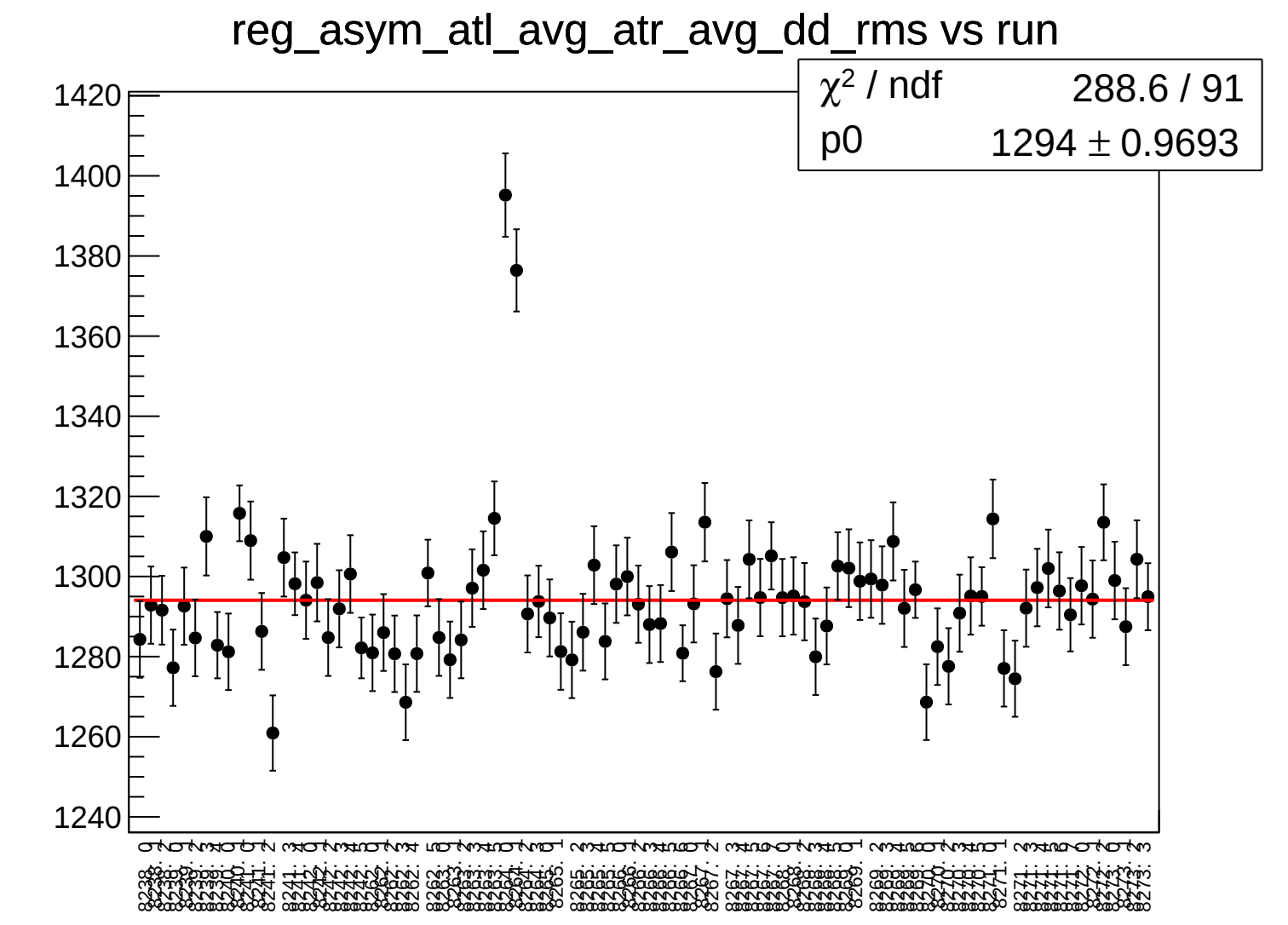

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.67 / 91
p0 0.1096 ± 0.1613
pull
Entries 92
Mean 130.7
Std Dev 0
pull1D
Entries 92
Mean 0.0213
Std Dev 0.9925

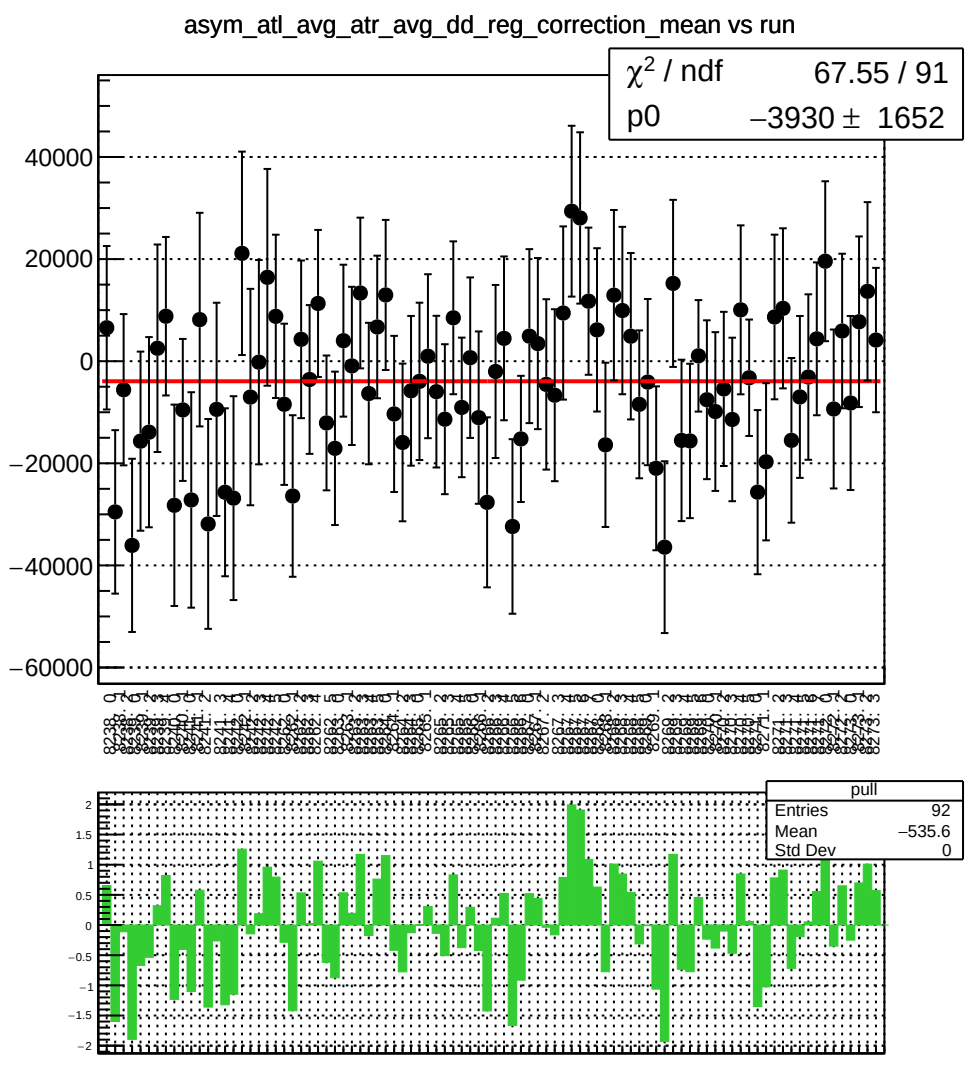

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.551e+04 / 91
p0 148.6 ± 0.1141
350
300
250
200
150
100

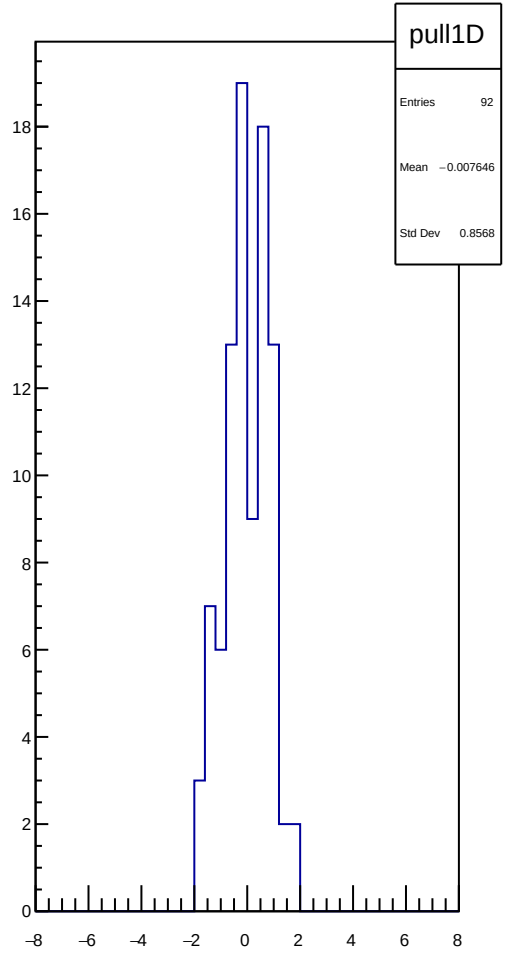

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.54 / 91
p0 2.839e−13 ± 4.558e−13
pull
Entries 92
Mean −1500
Std Dev 0
pull1D
Entries 92
Mean −0.00117
Std Dev 1.019

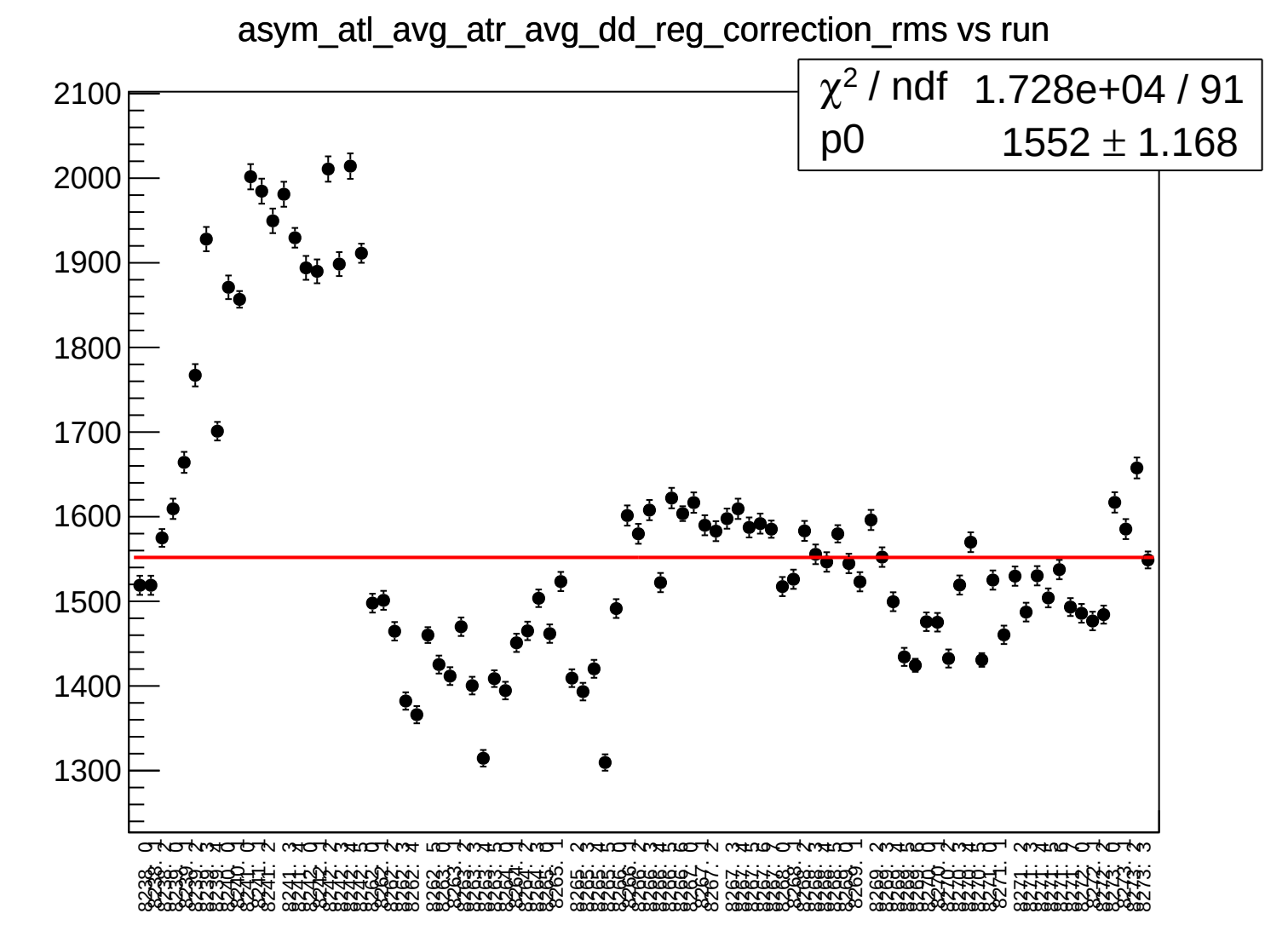

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.375e+05 / 91
p0 3.449e−10 ± 3.223e−13
3
2.5
2
1.5
1
0.5

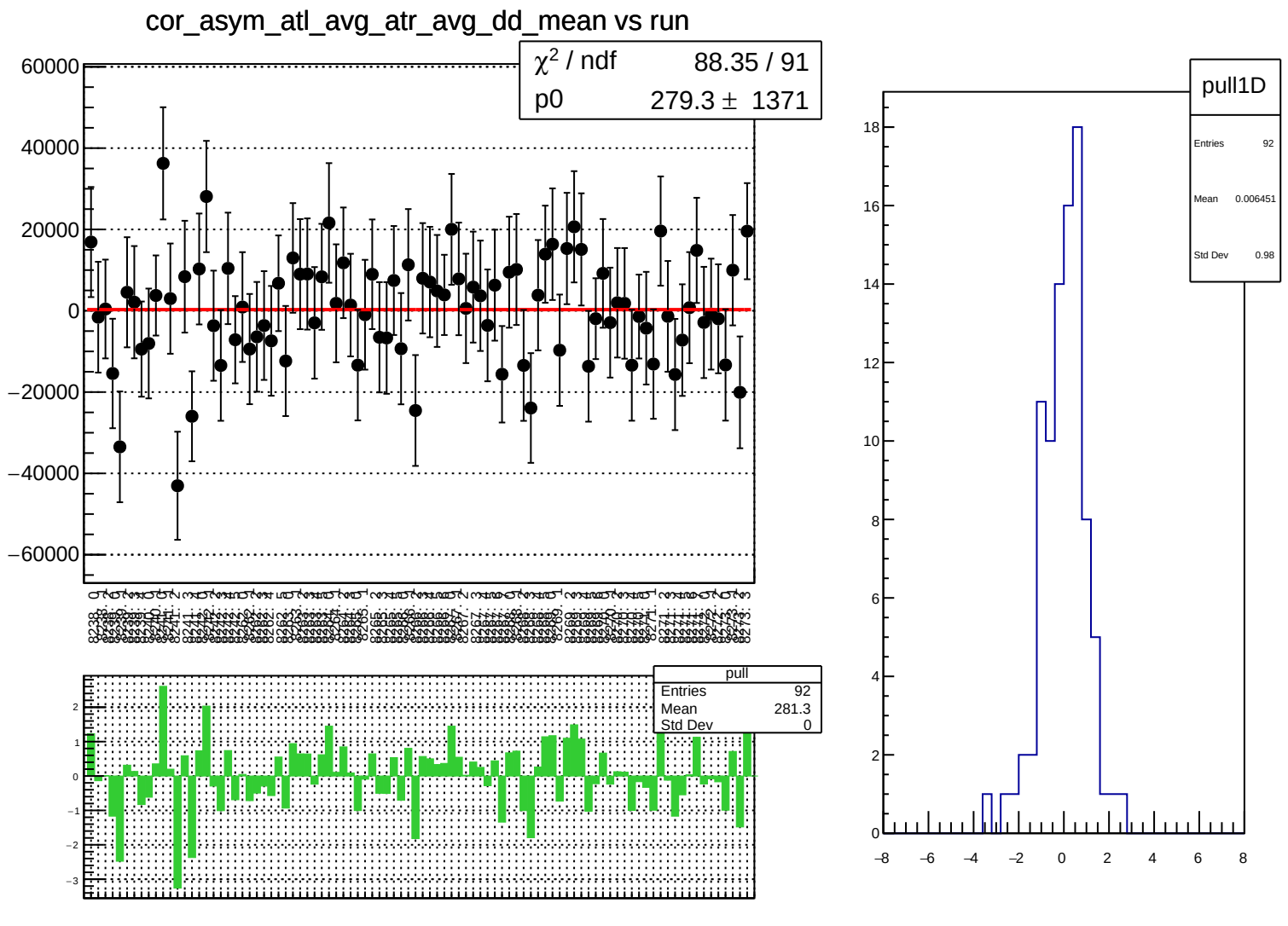

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 88.35 / 91
p0 279.3 ± 1371
pull
Entries 92
Mean 281.3
Std Dev 0
pull1D
Entries 92
Mean 0.00645
Std Dev 0.98

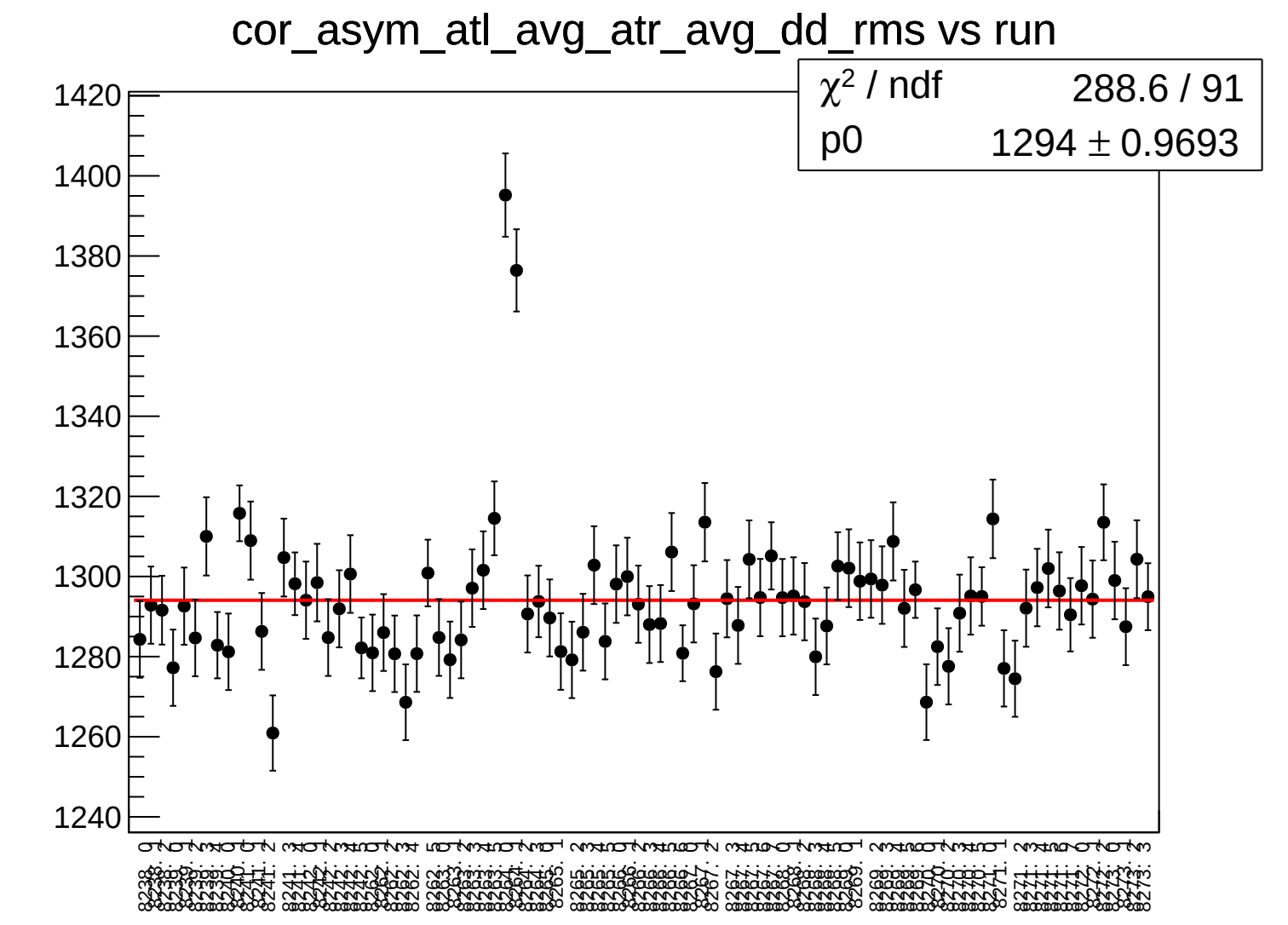

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 288.6 / 91
p0 1294 ± 0.9693
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

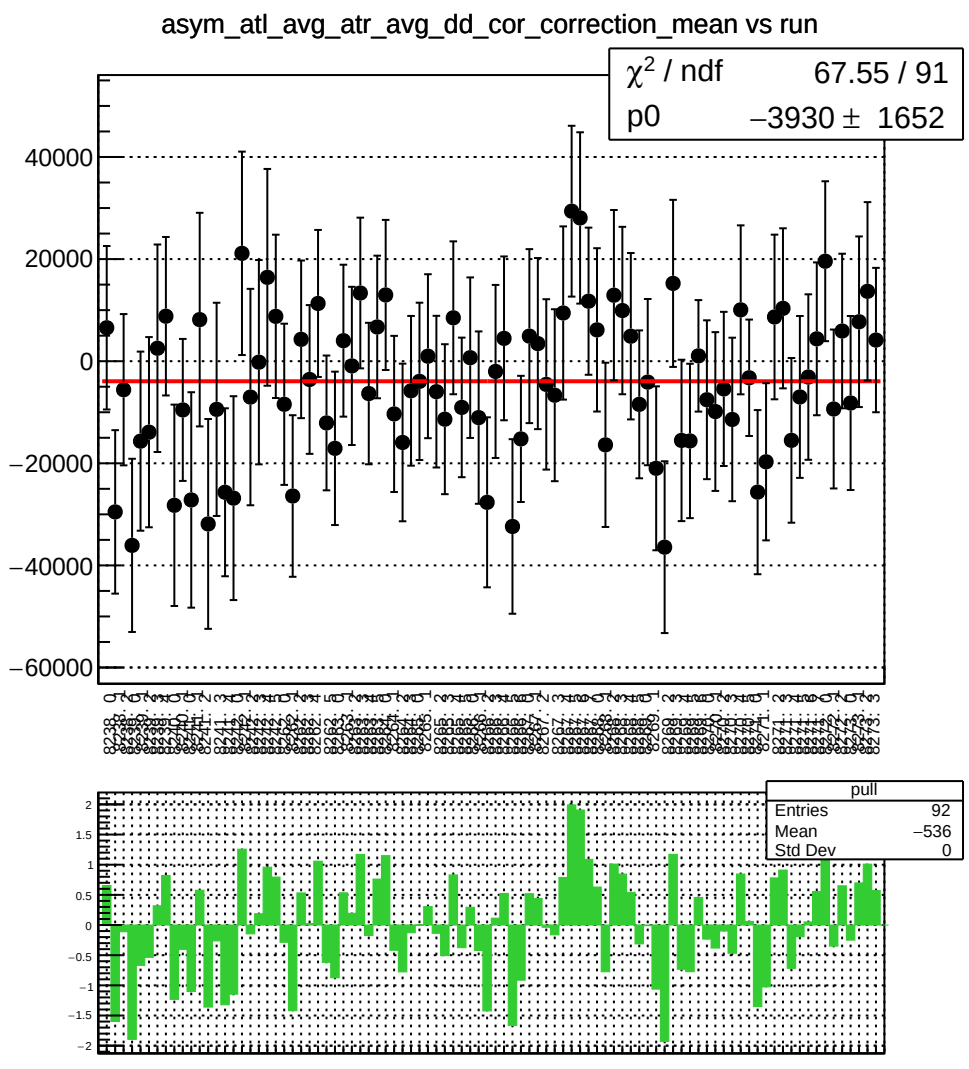

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 67.55 / 91
p0 −3930 ± 1652
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −535.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

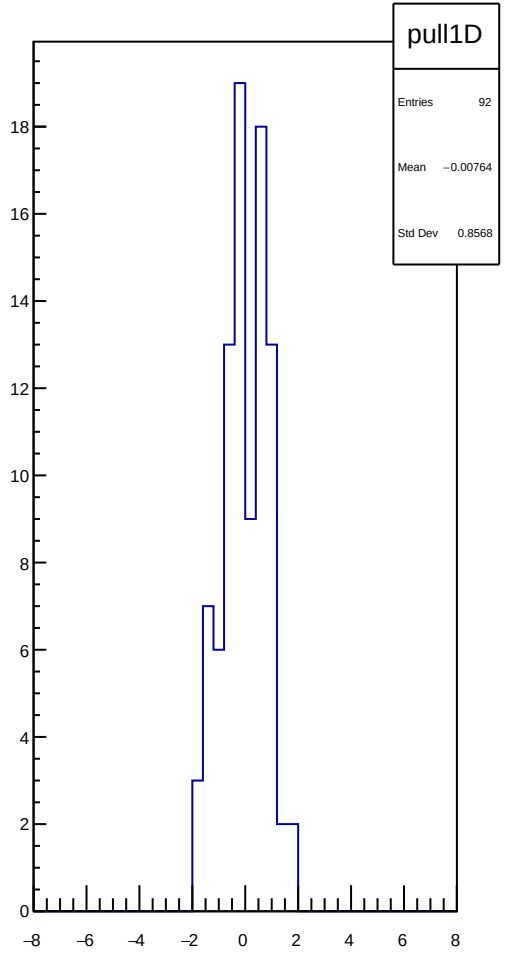

pull1D
Entries 92
Mean −0.007646
Std Dev 0.8568
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

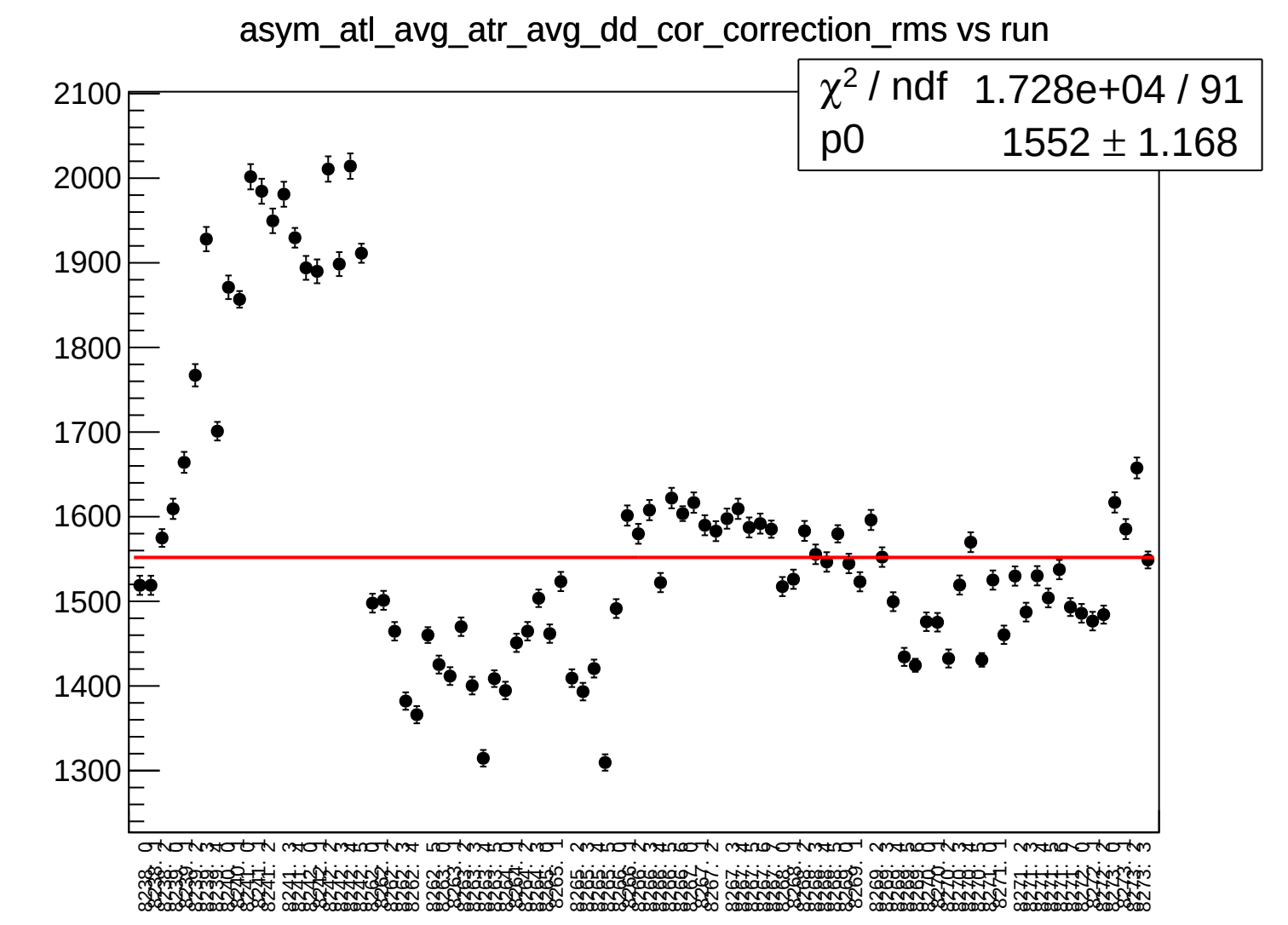

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.728e+04 / 91
p0 1552 ± 1.168
2100
2000
1900
1800
1700
1600
1500
1400
1300

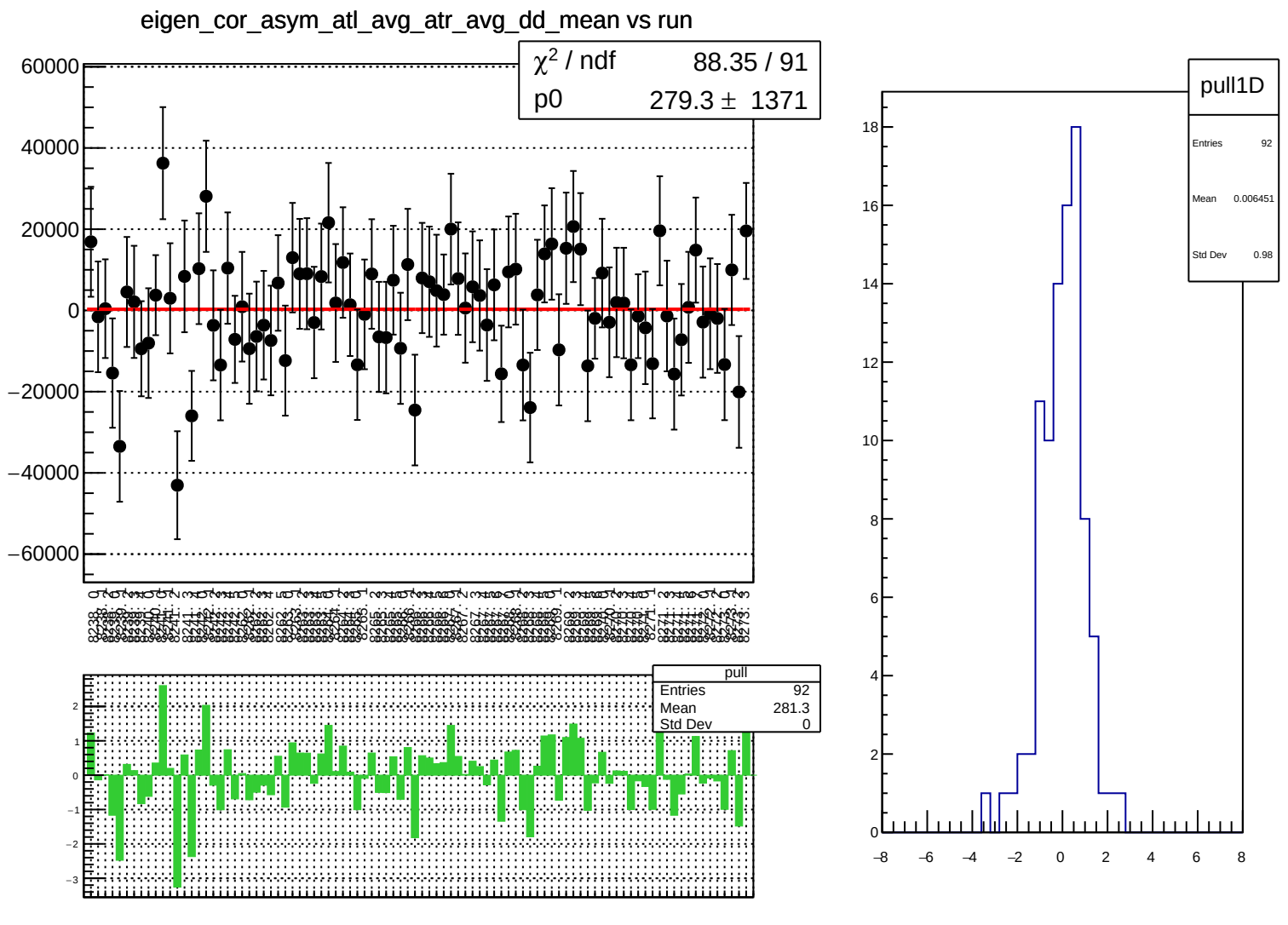

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 88.35 / 91
p0 279.3 ± 1371
pull
Entries 92
Mean 281.3
Std Dev 0
pull1D
Entries 92
Mean 0.006451
Std Dev 0.98

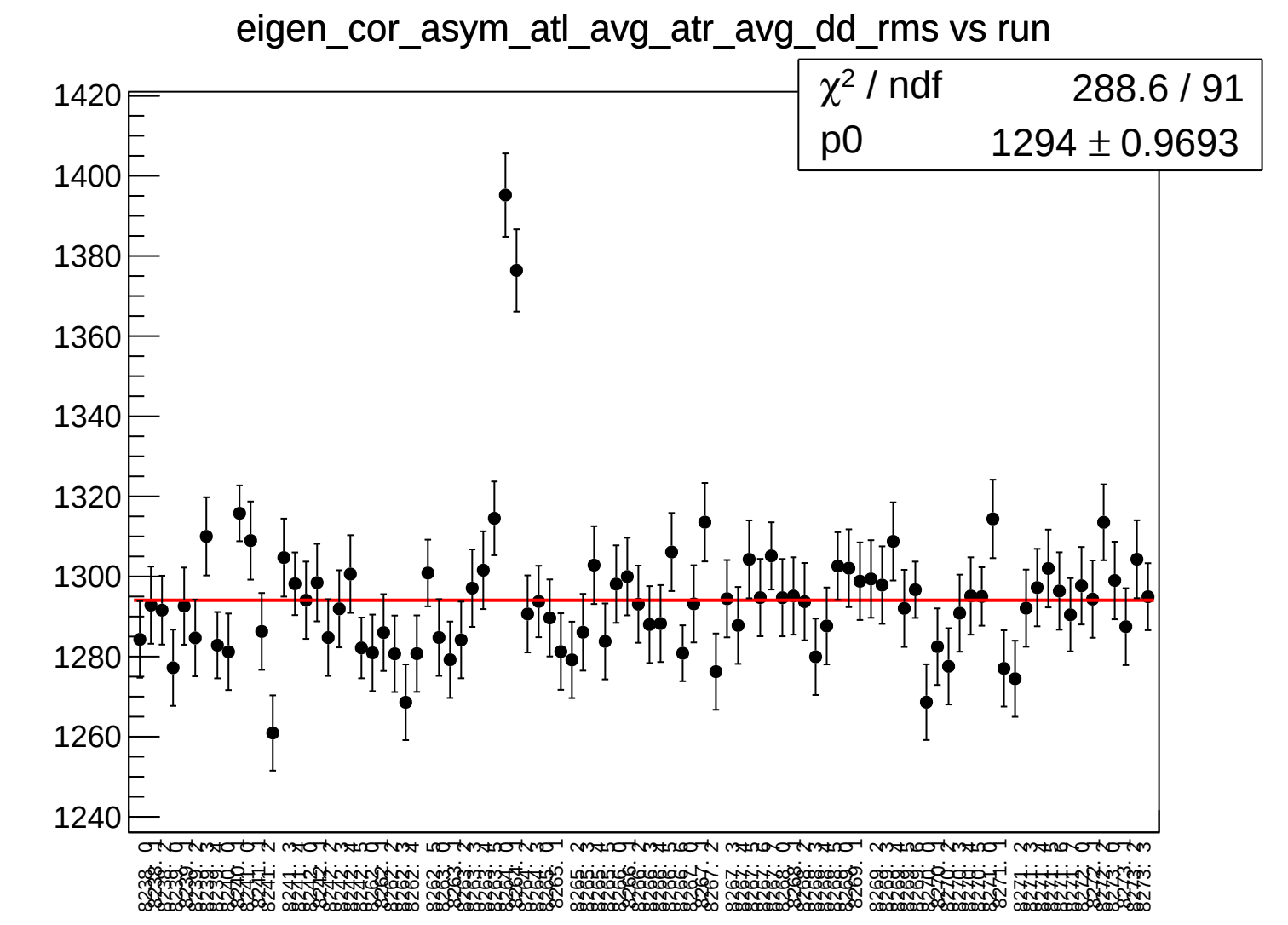

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 288.6 / 91
p0 1294 ± 0.9693
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

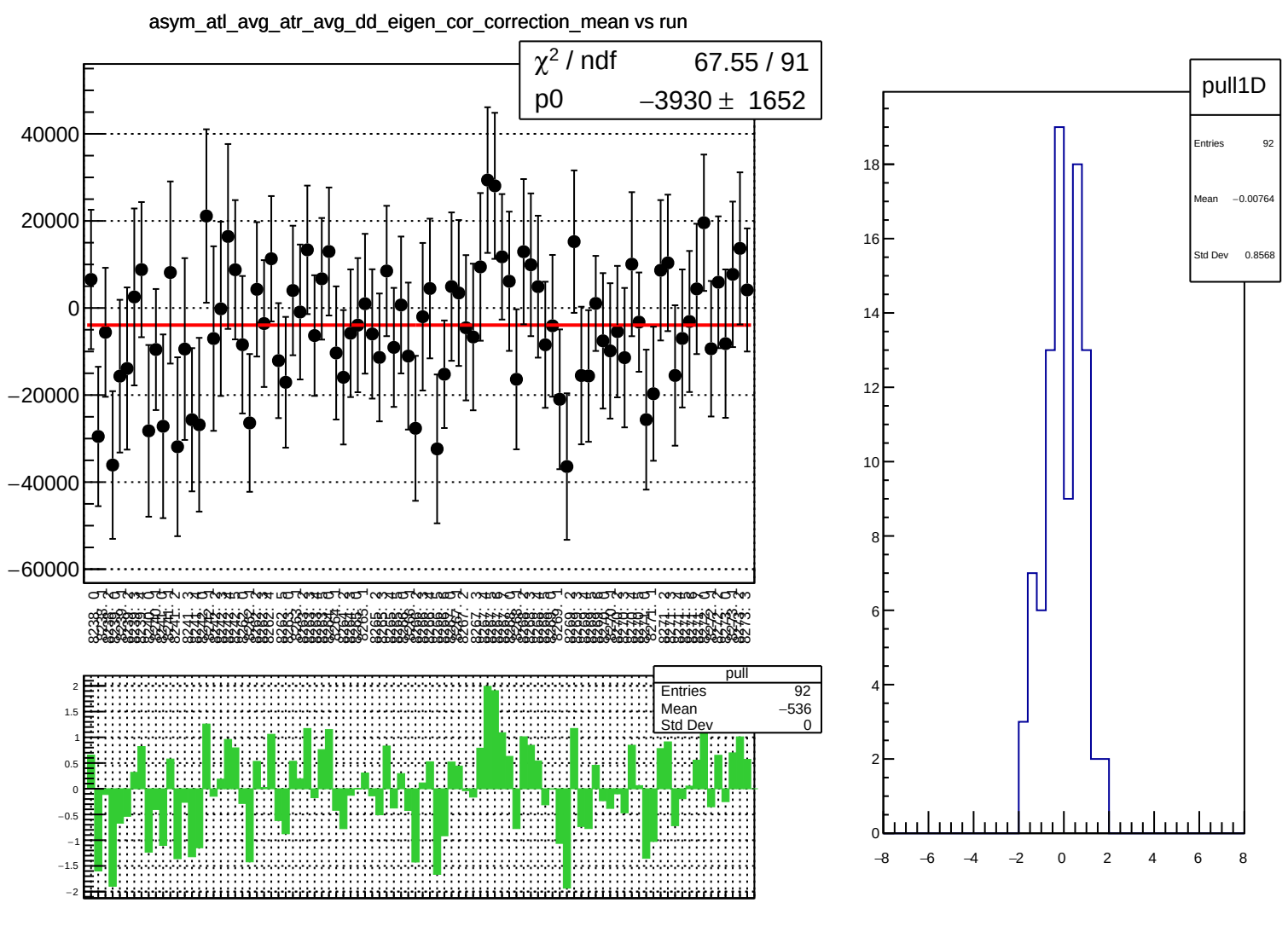

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 67.55 / 91
p0 −3930 ± 1652
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −536
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

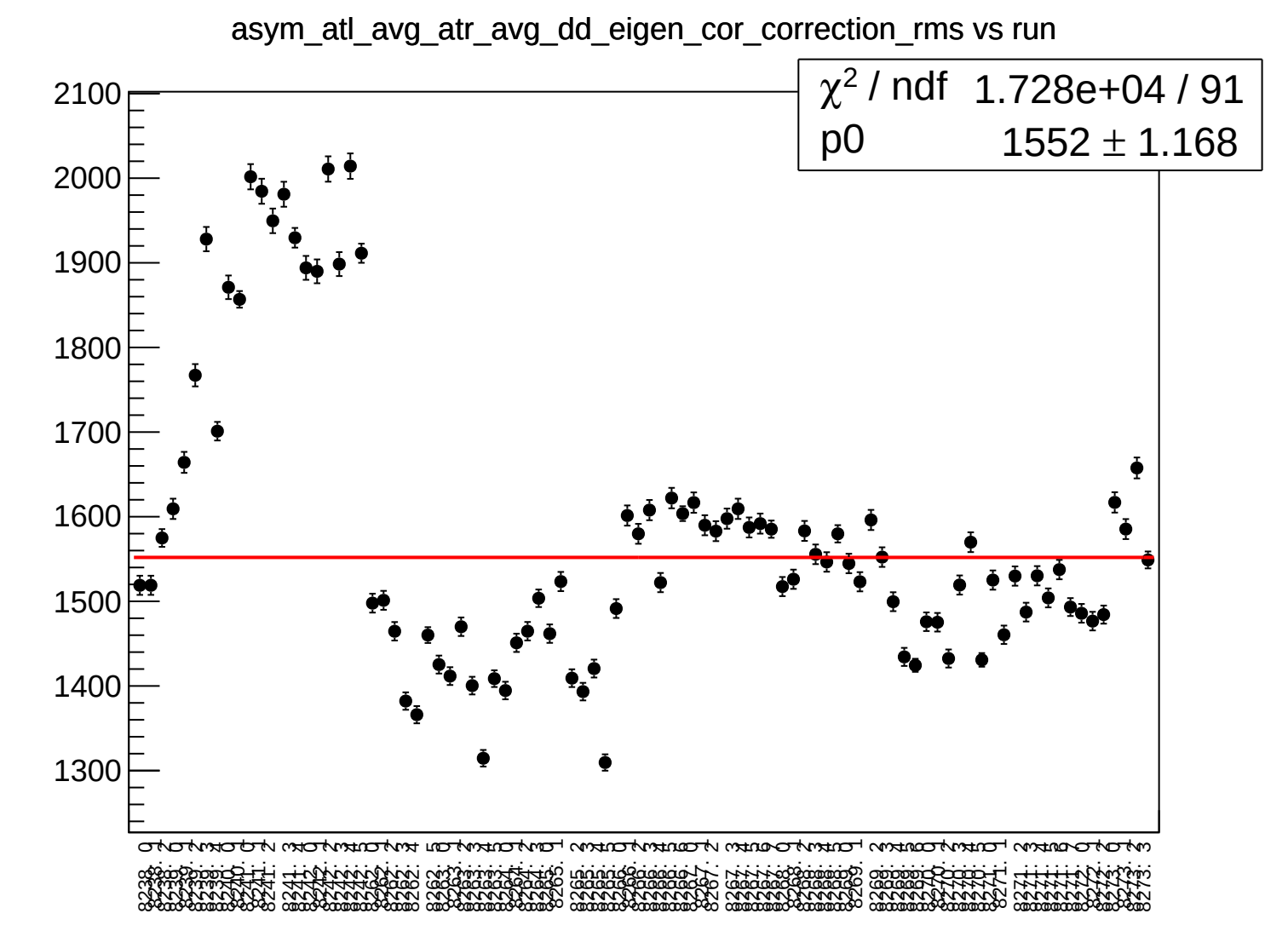

pull1D
Entries 92
Mean −0.00764
Std Dev 0.8568
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

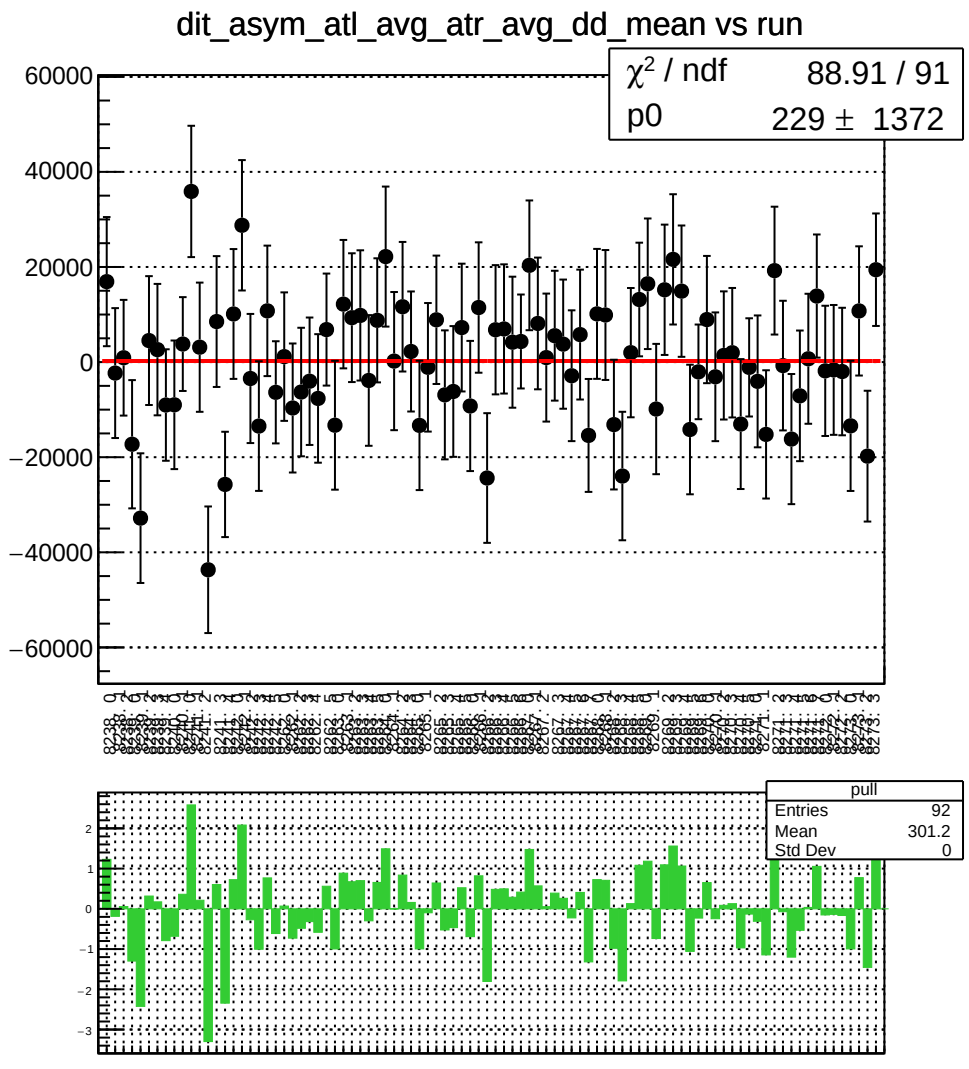

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.728e+04 / 91
p0 1552 ± 1.168
2100
2000
1900
1800
1700
1600
1500
1400
1300

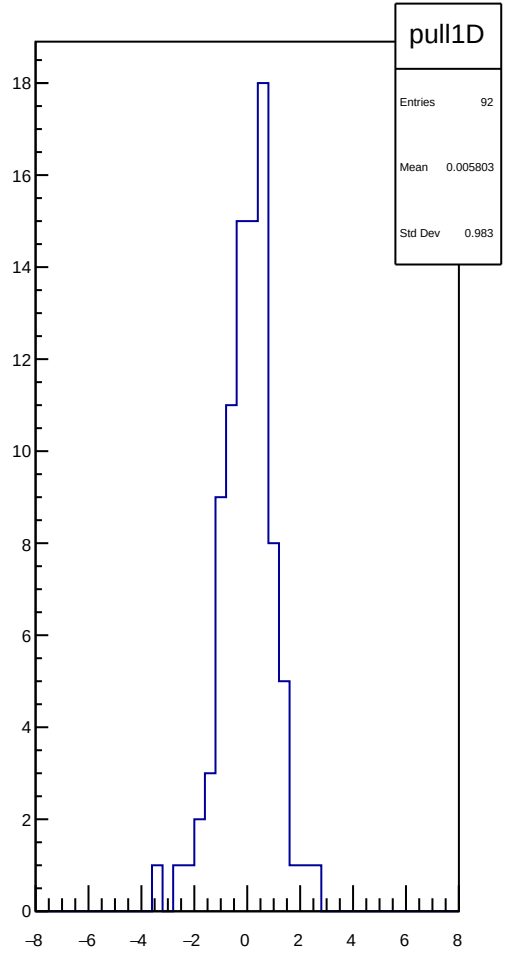

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 88.35 / 91
p0 279.3 ± 1371
pull
Entries 92
Mean 281.3
Std Dev 0
pull1D
Entries 92
Mean 0.006451
Std Dev 0.98

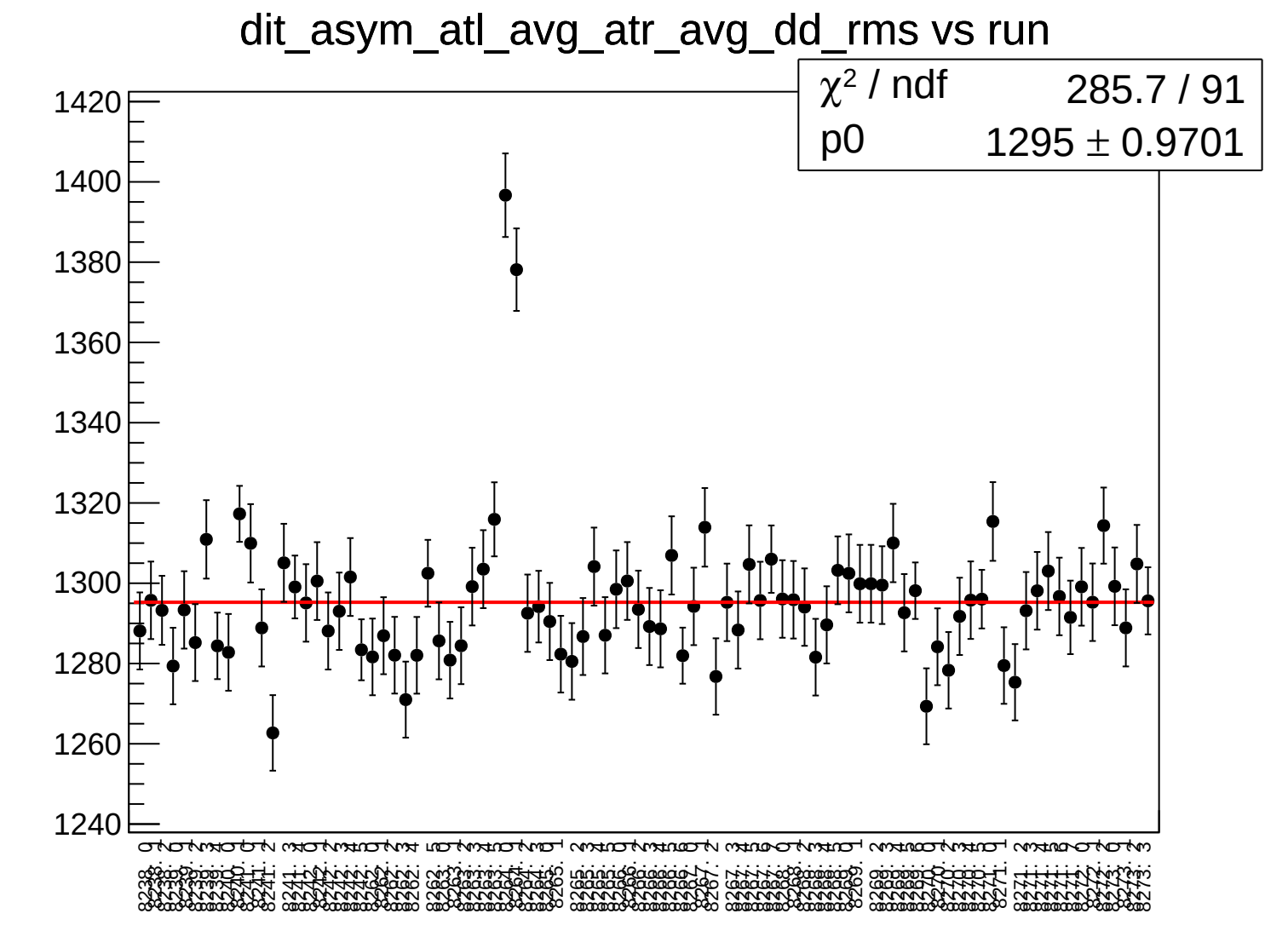

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 288.6 / 91
p0 1294 ± 0.9693
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

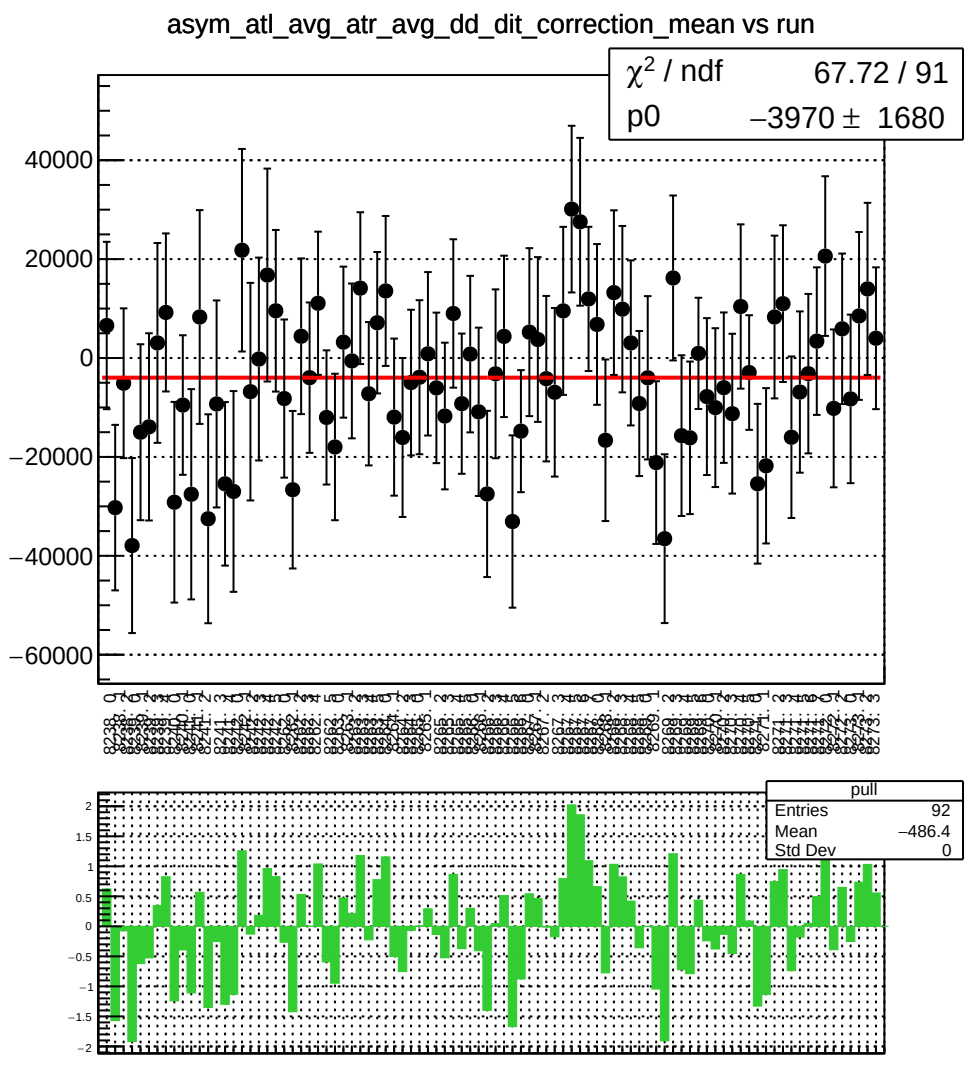

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 67.55 / 91
p0 −3930 ± 1652
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −536
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.00764
Std Dev 0.8568
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

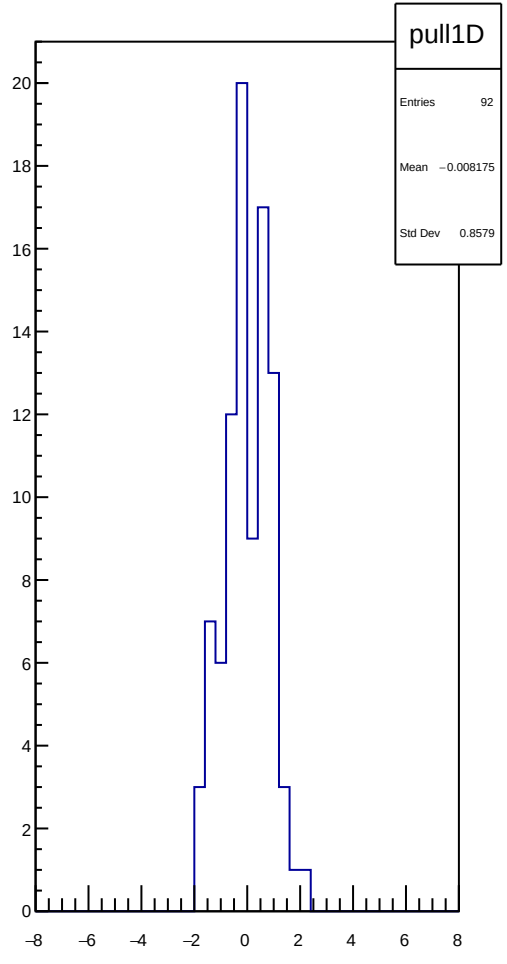

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.728e+04 / 91
p0 1552 ± 1.168
2100
2000
1900
1800
1700
1600
1500
1400
1300

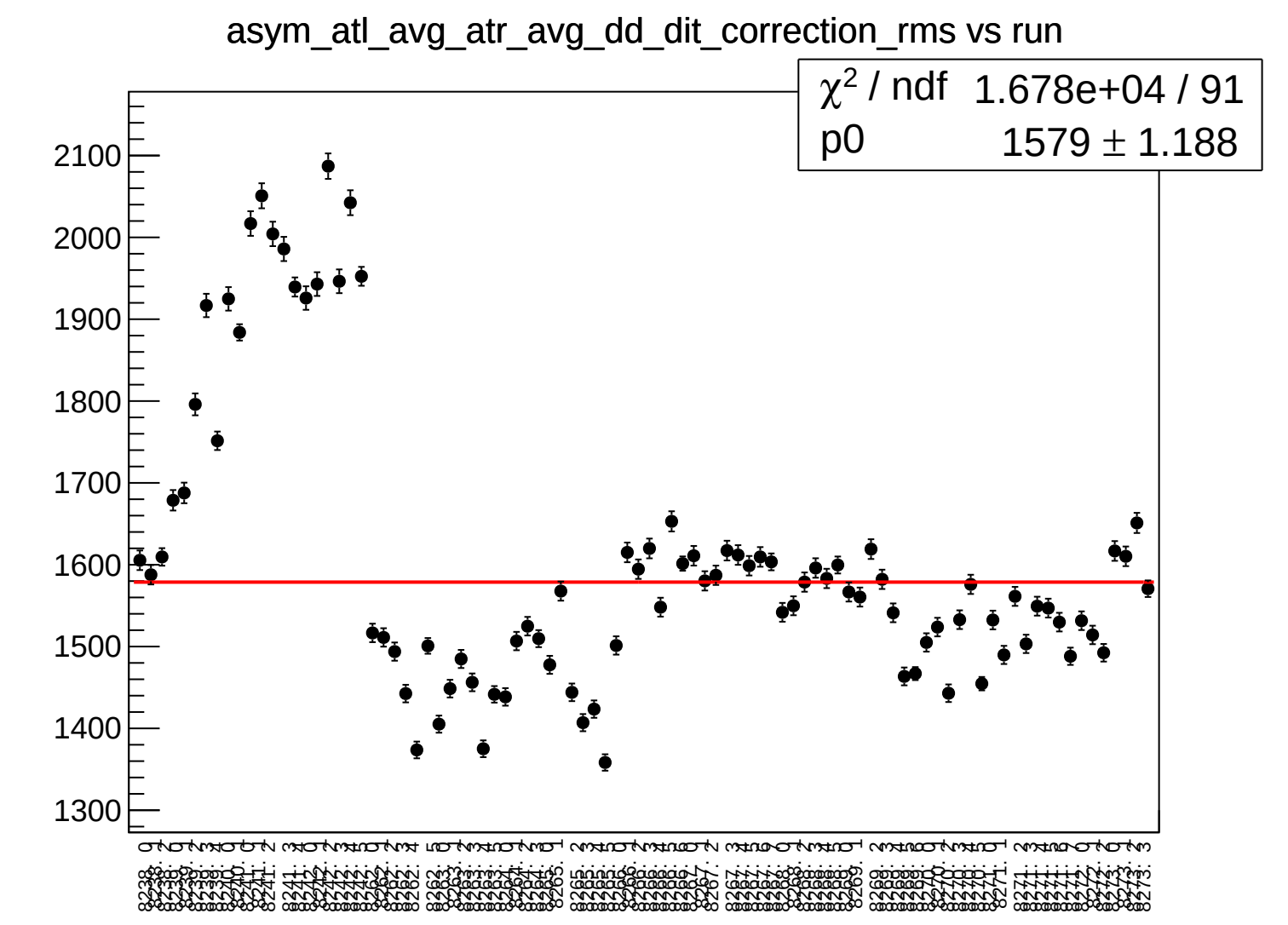

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 88.91 / 91
p0 229 ± 1372
pull
Entries 92
Mean 301.2
Std Dev 0

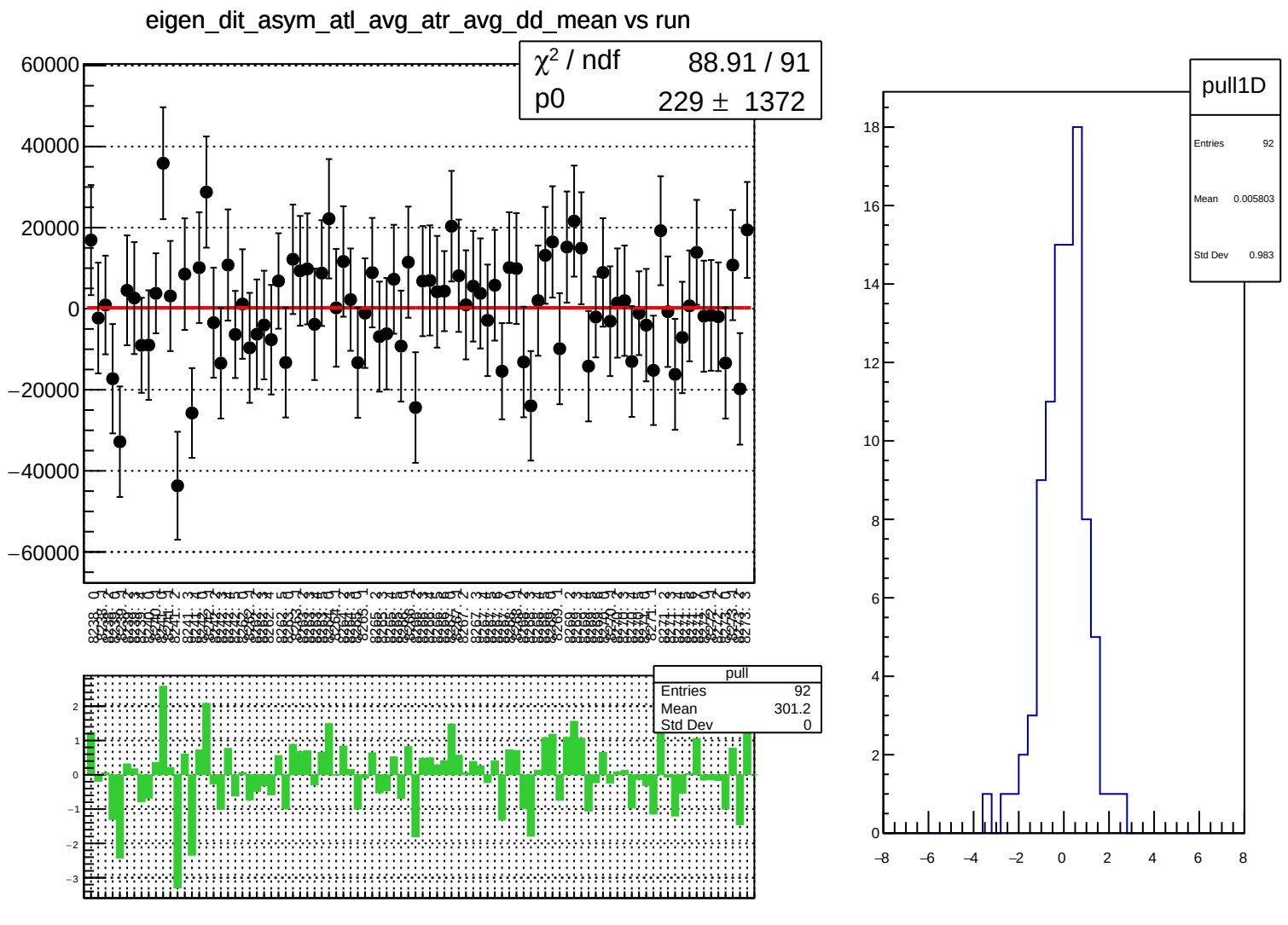

pull1D
Entries 92
Mean 0.005803
Std Dev 0.983

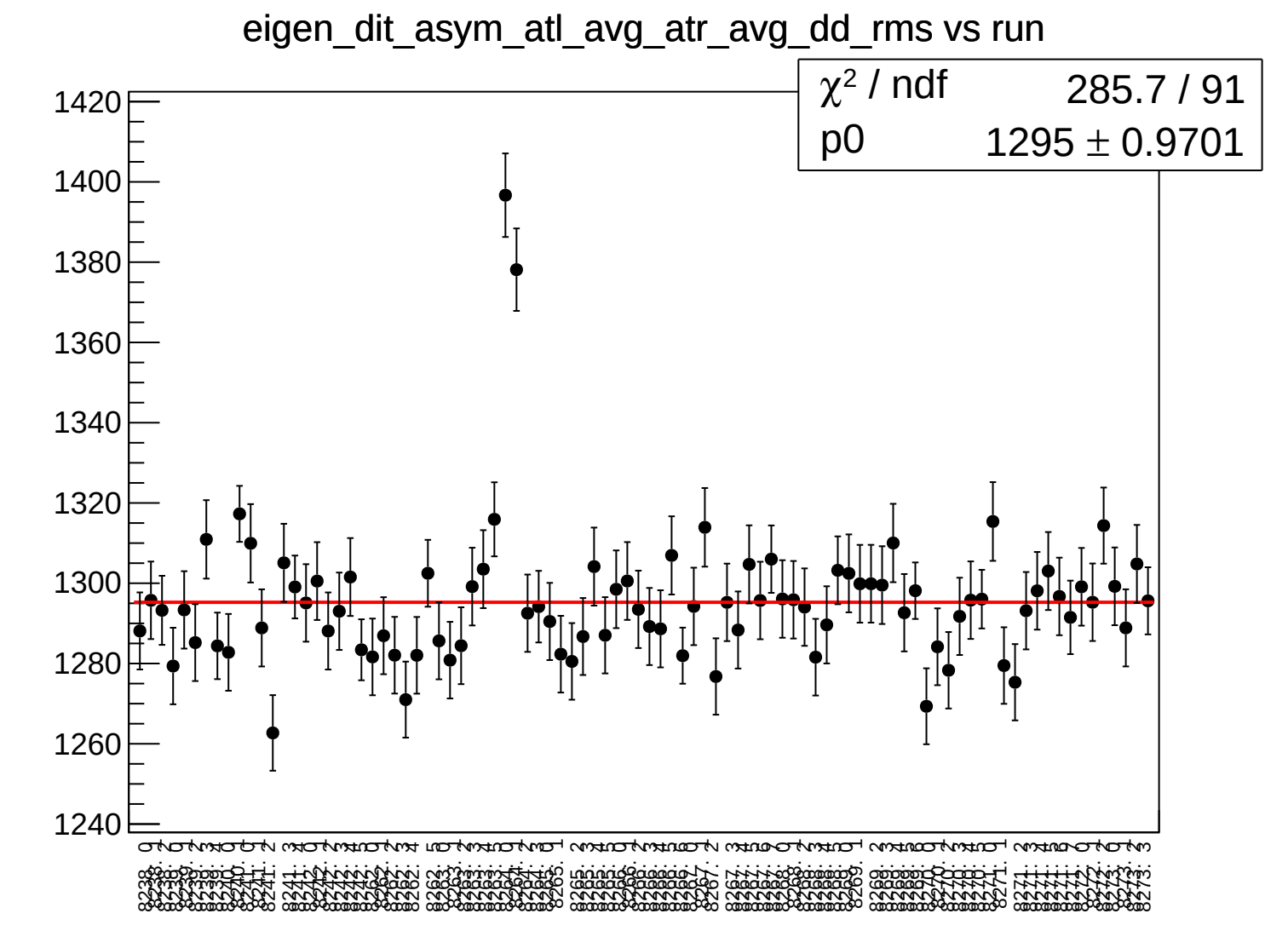

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 285.7 / 91
p0 1295 ± 0.9701
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

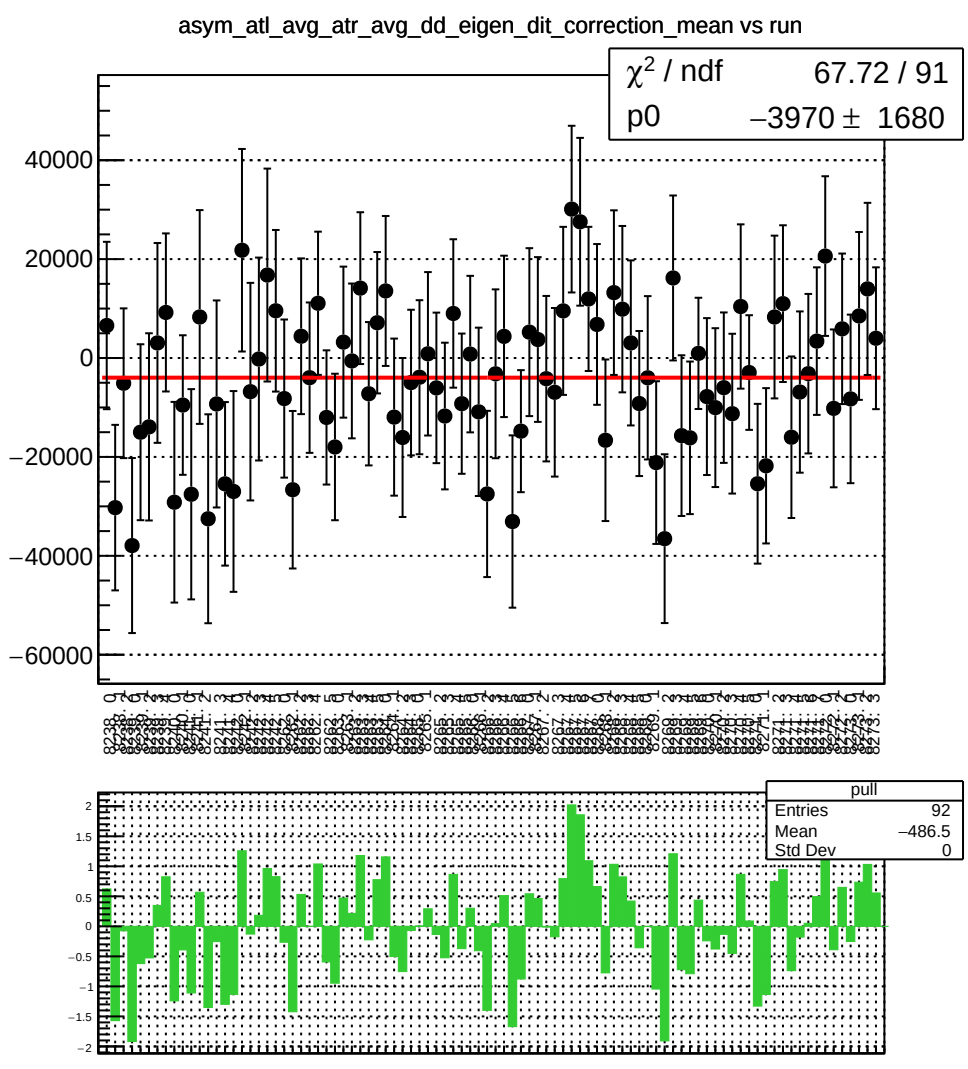

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 67.72 / 91
p0 −3970 ± 1680
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −486.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

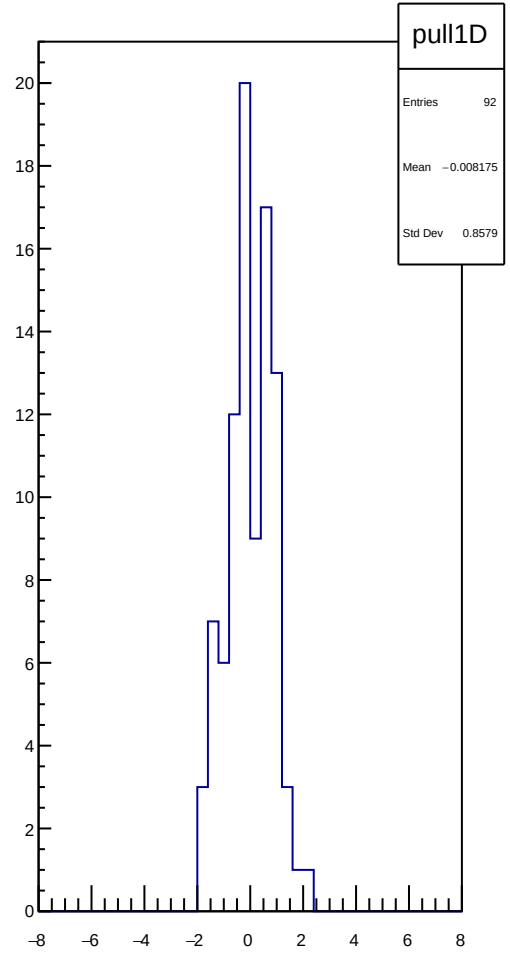

pull1D
Entries 92
Mean −0.008175
Std Dev 0.8579
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

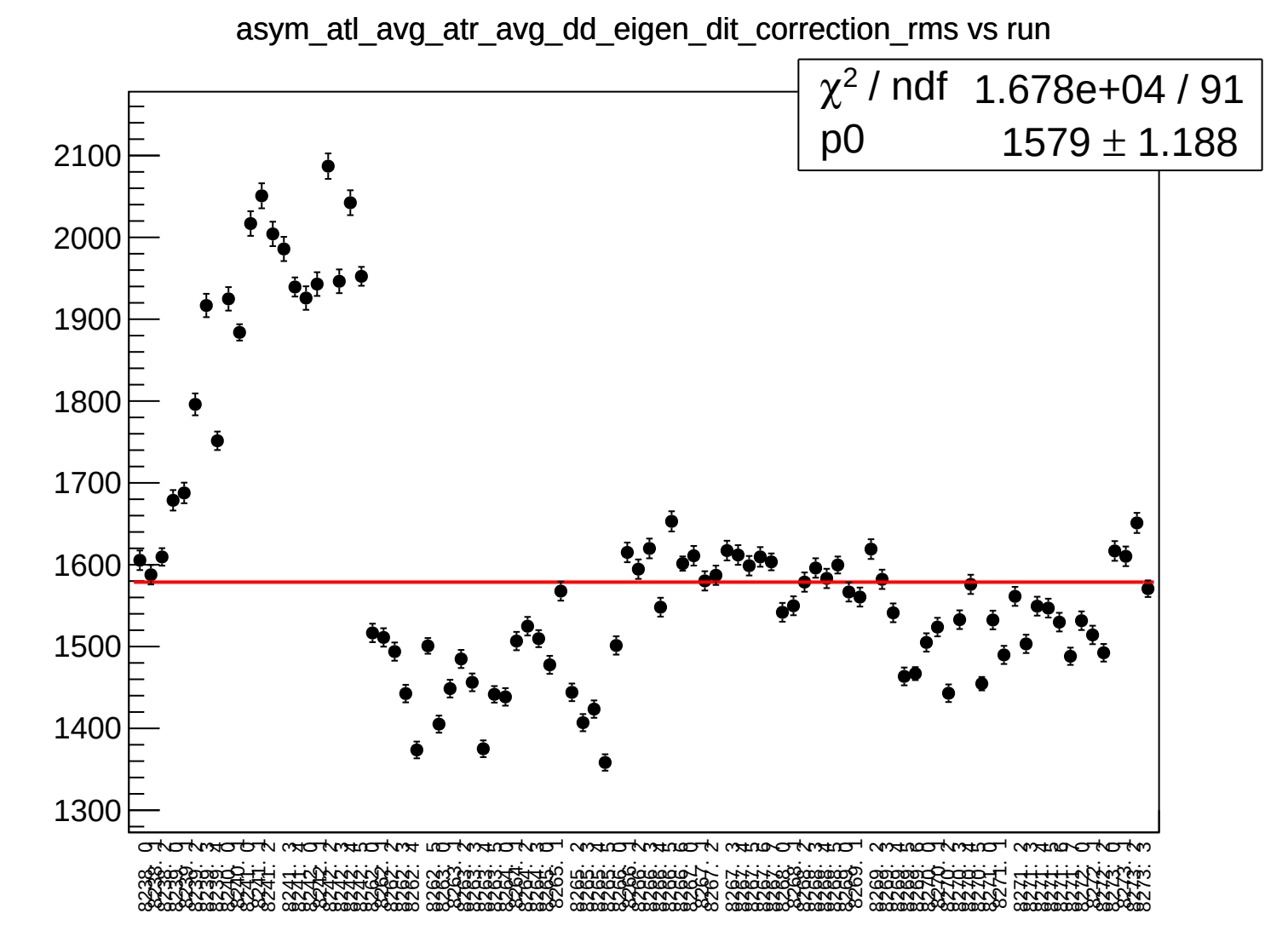

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.678e+04 / 91
p0 1579 ± 1.188
2100
2000
1900
1800
1700
1600
1500
1400
1300

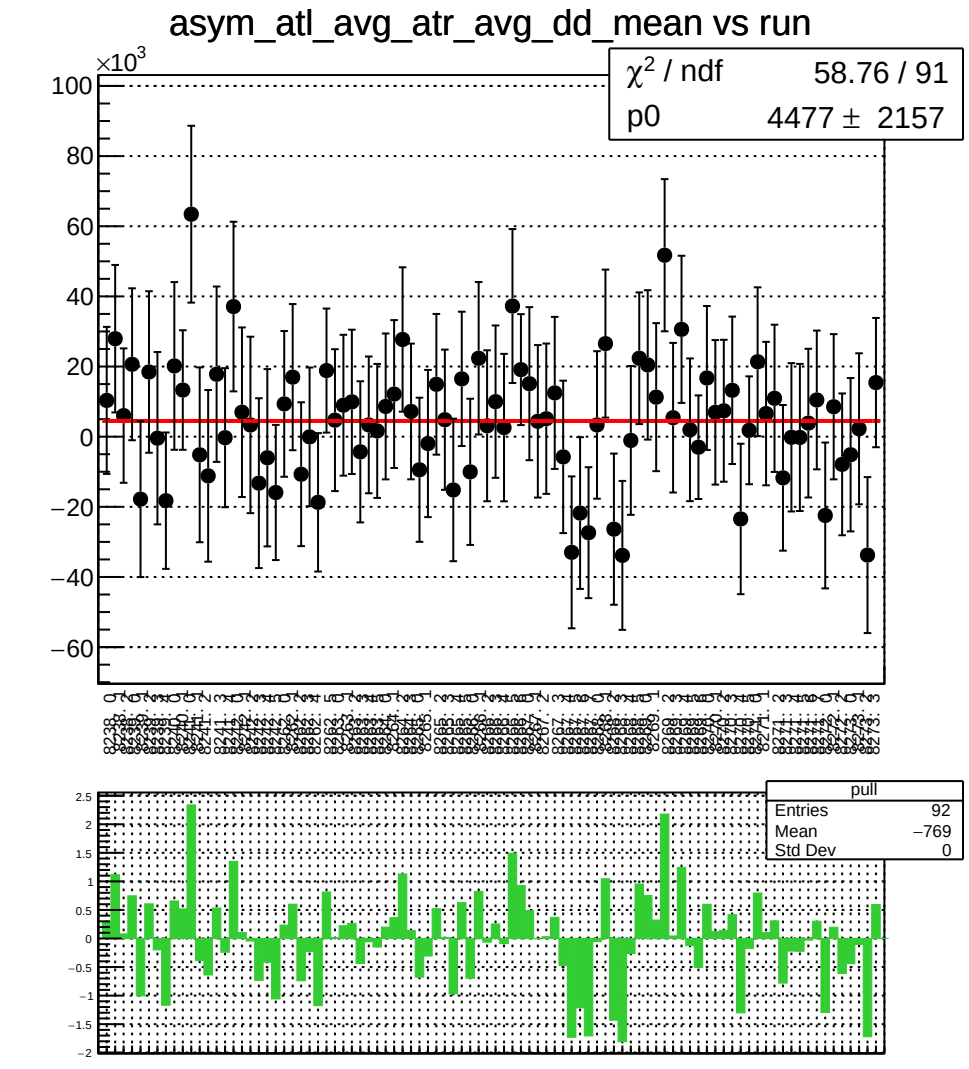

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 88.91 / 91
p0 229 ± 1372
pull
Entries 92
Mean 301.2
Std Dev 0
pull1D
Entries 92
Mean 0.005803
Std Dev 0.983

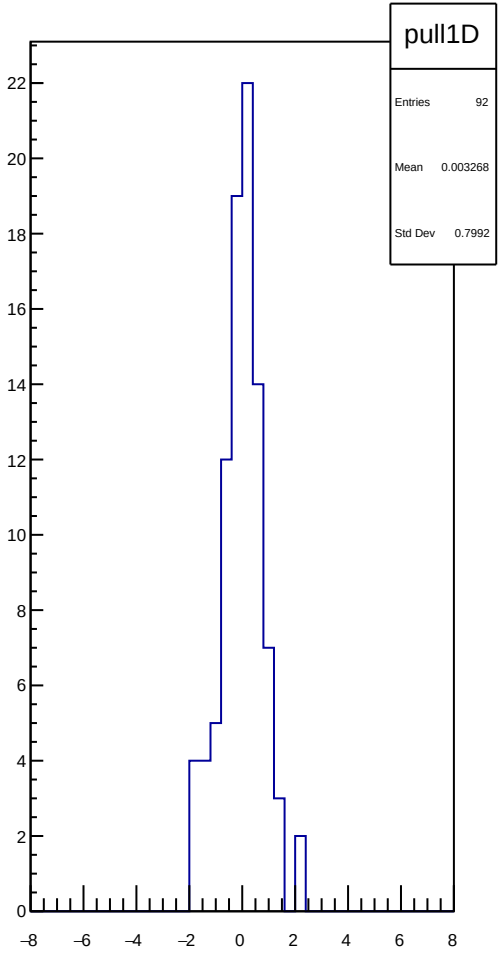

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 285.7 / 91
p0 1295 ± 0.9701
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

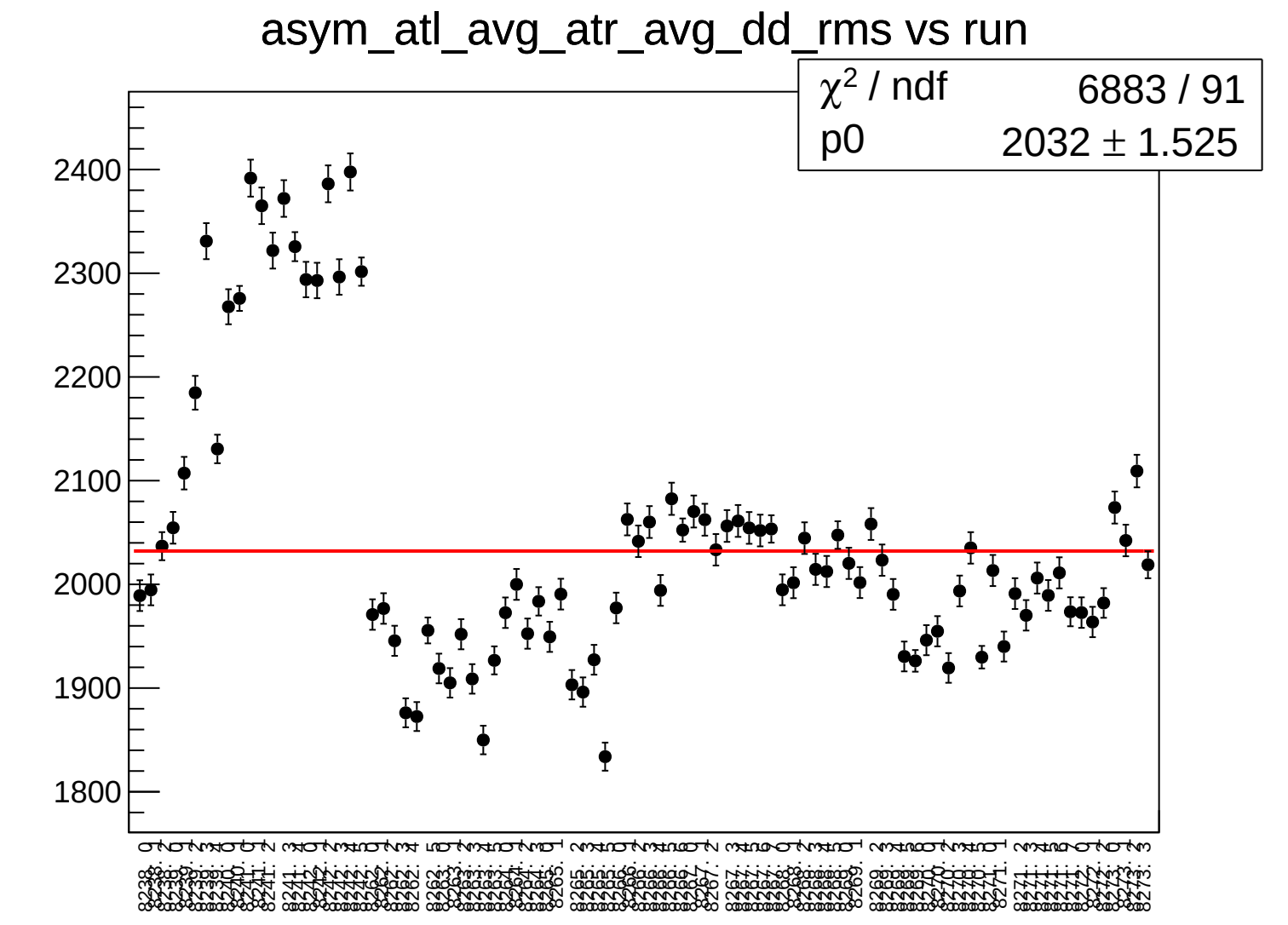

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 67.72 / 91
p0 −3970 ± 1680
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −486.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

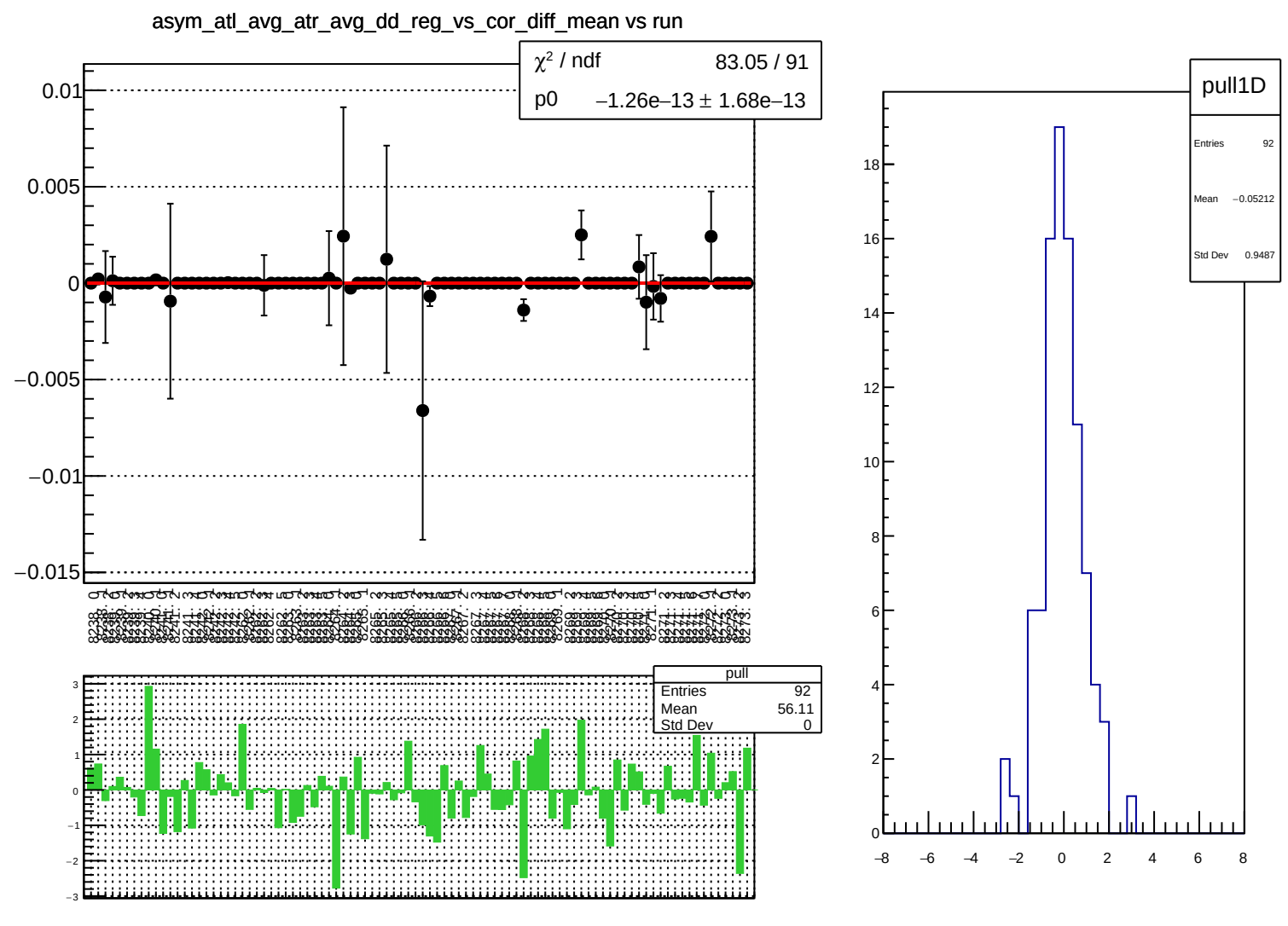

pull1D
Entries 92
Mean −0.008175
Std Dev 0.8579
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

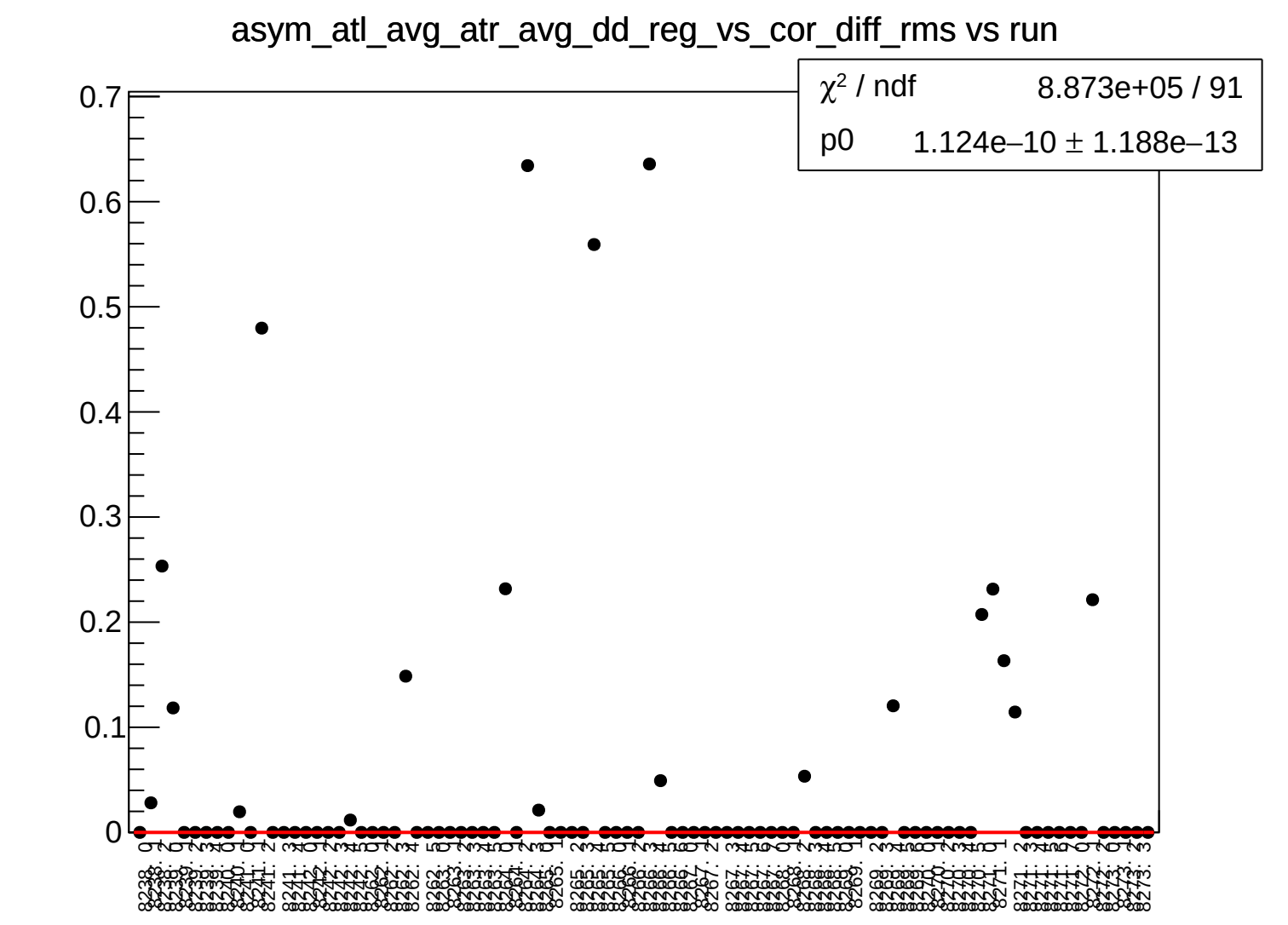

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.678e+04 / 91
p0 1579 ± 1.188
2100
2000
1900
1800
1700
1600
1500
1400
1300

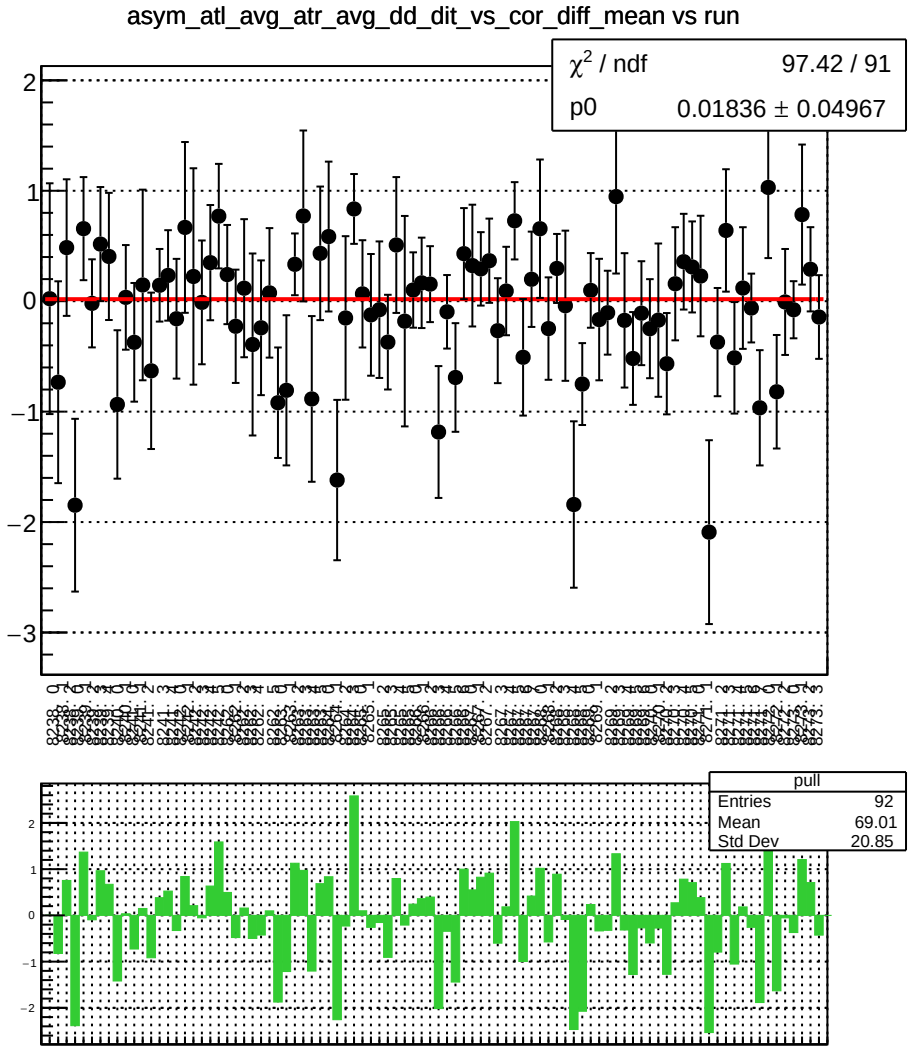

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ^2 / ndf 58.76 / 91
p0 4477 ± 2157
pull
Entries 92
Mean −769
Std Dev 0

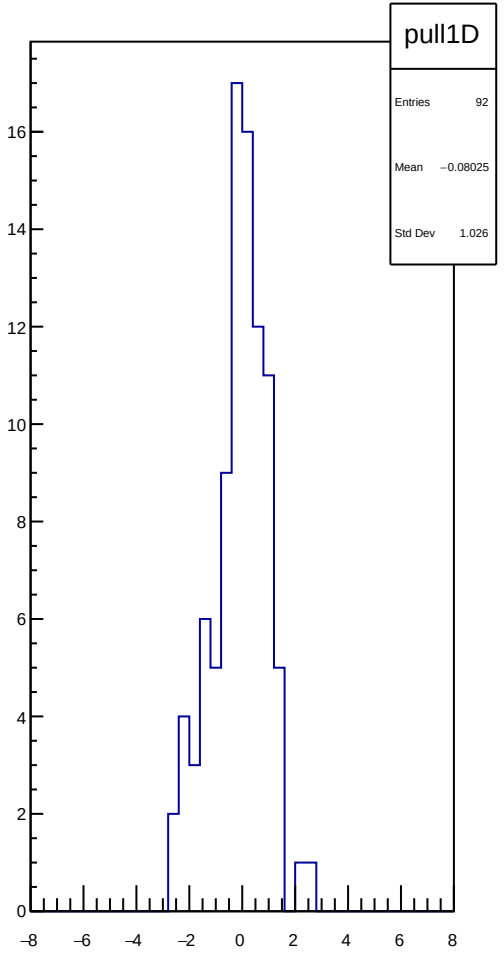

pull1D
Entries 92
Mean 0.003268
Std Dev 0.7992

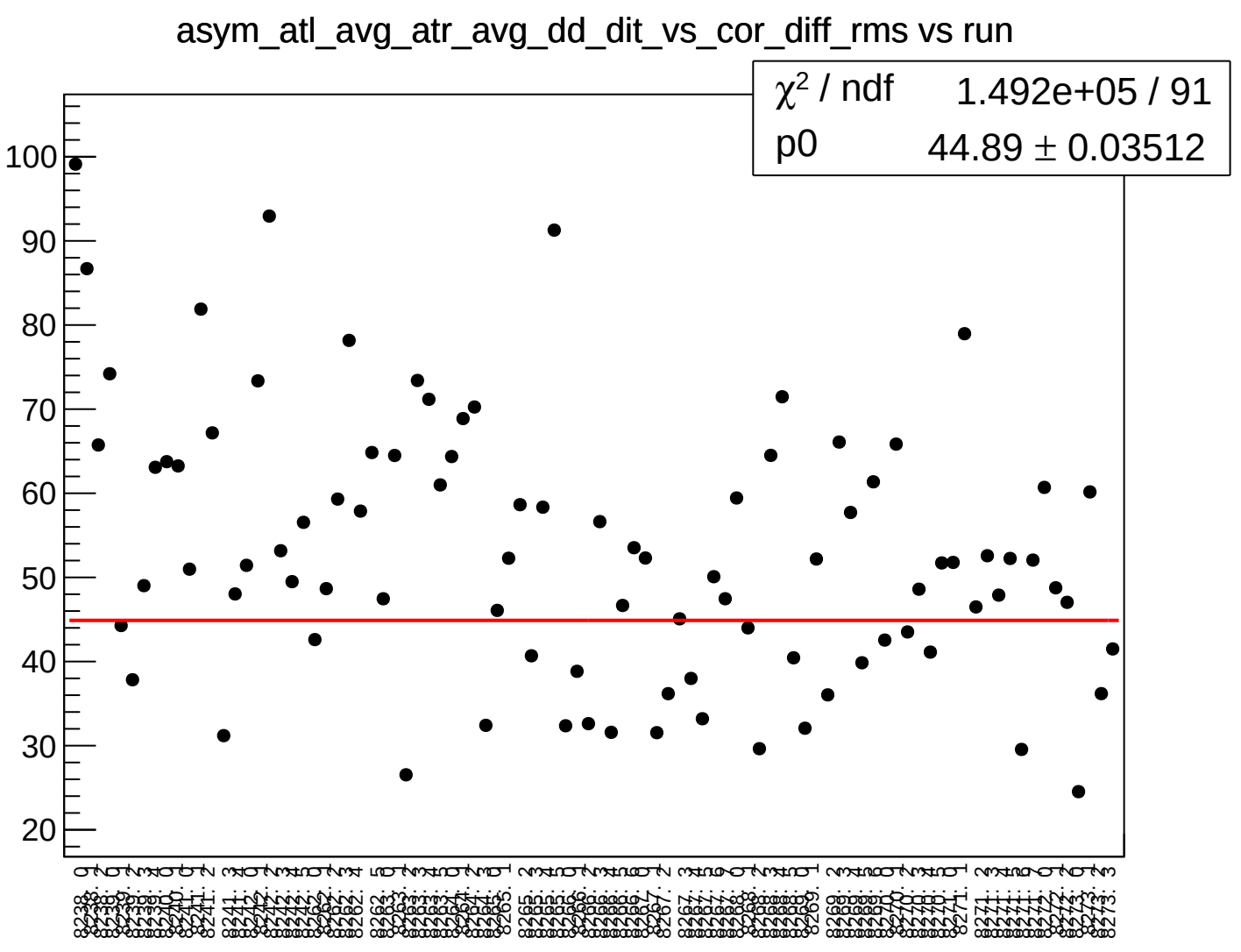

asym_atl_avg_atr_avg_dd_rms vs run
$\chi^2$ / ndf 6883 / 91
p0 2032 ± 1.525
2400
2300
2200
2100
2000
1900
1800

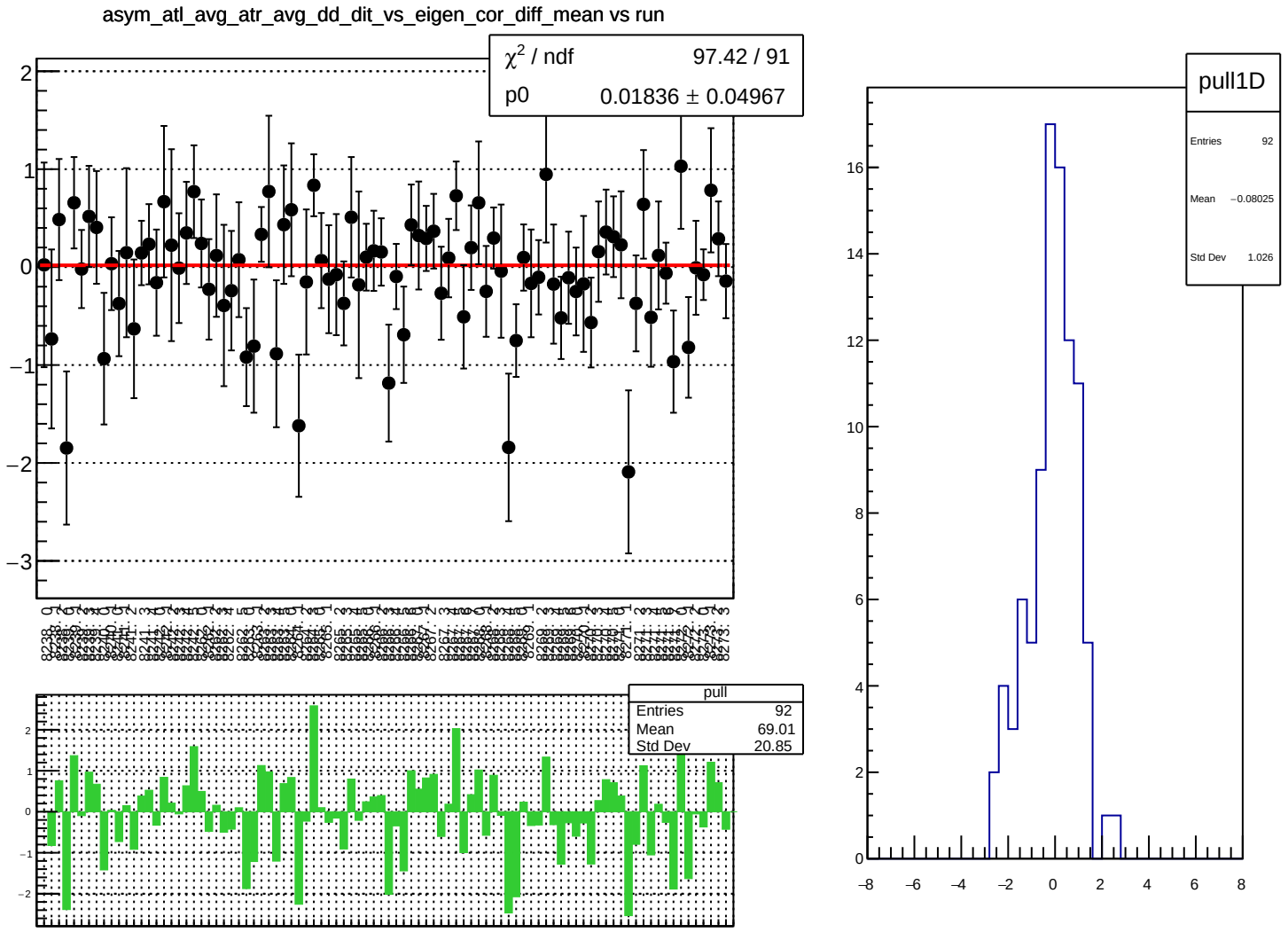

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.05 / 91
p0 −1.26e−13 ± 1.68e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean 56.11
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.05212
Std Dev 0.9487
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

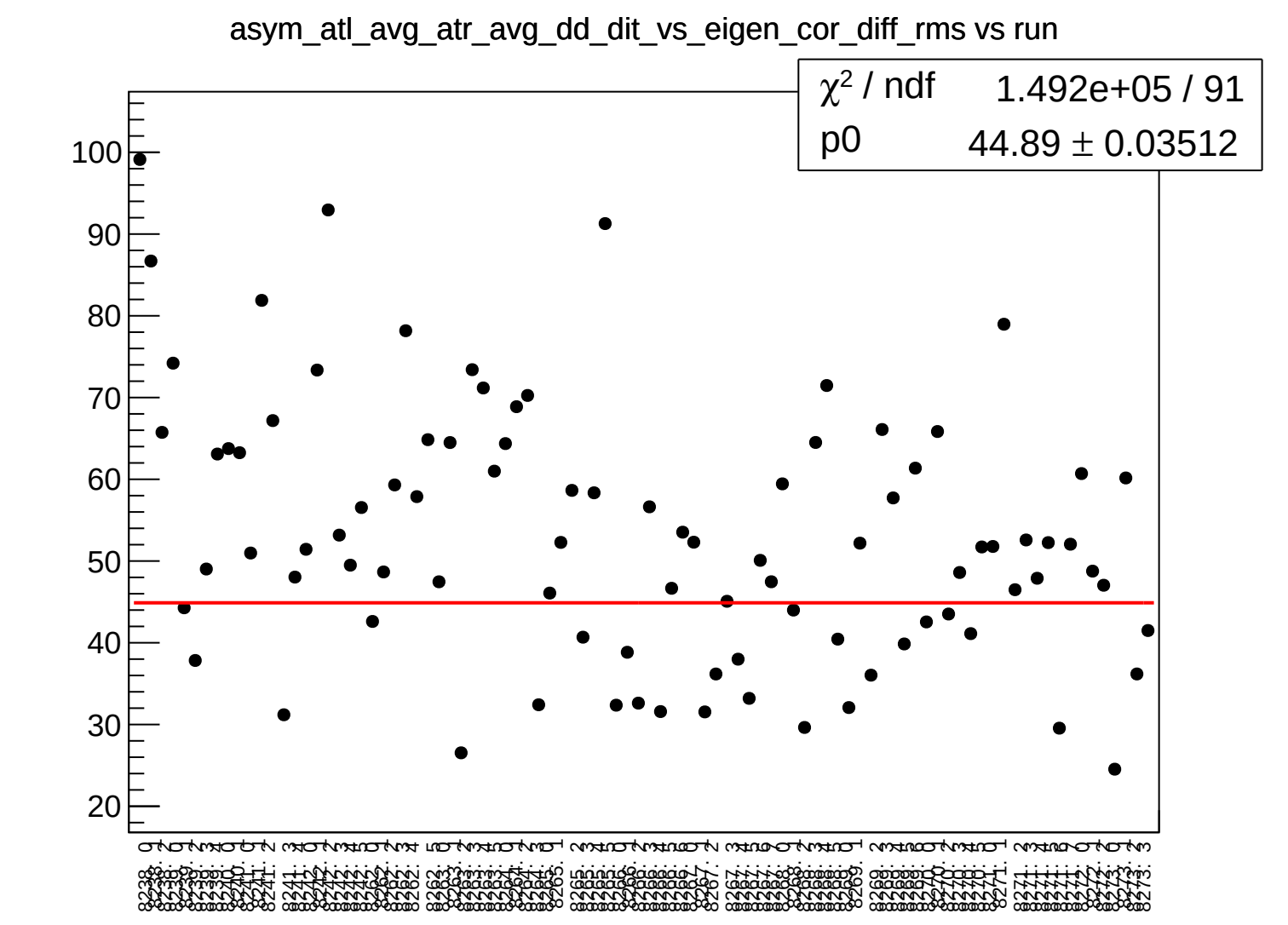

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.873e+05 / 91
p0 1.124e−10 ± 1.188e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

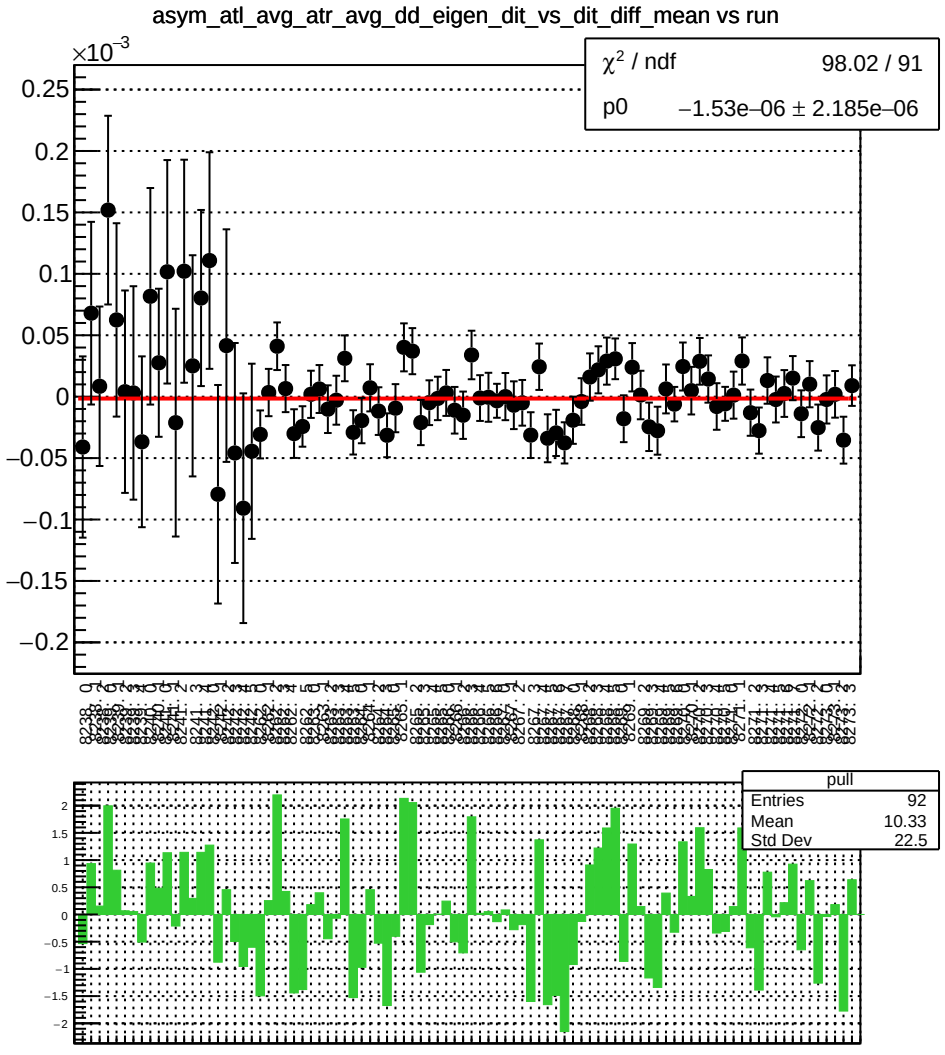

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.42 / 91
p0 0.01836 ± 0.04967
pull
Entries 92
Mean 69.01
Std Dev 20.85

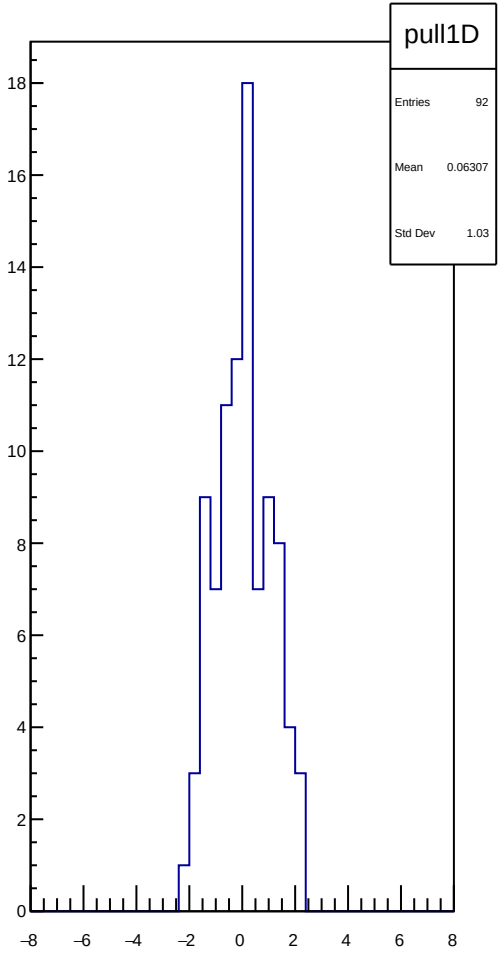

pull1D
Entries 92
Mean −0.08025
Std Dev 1.026

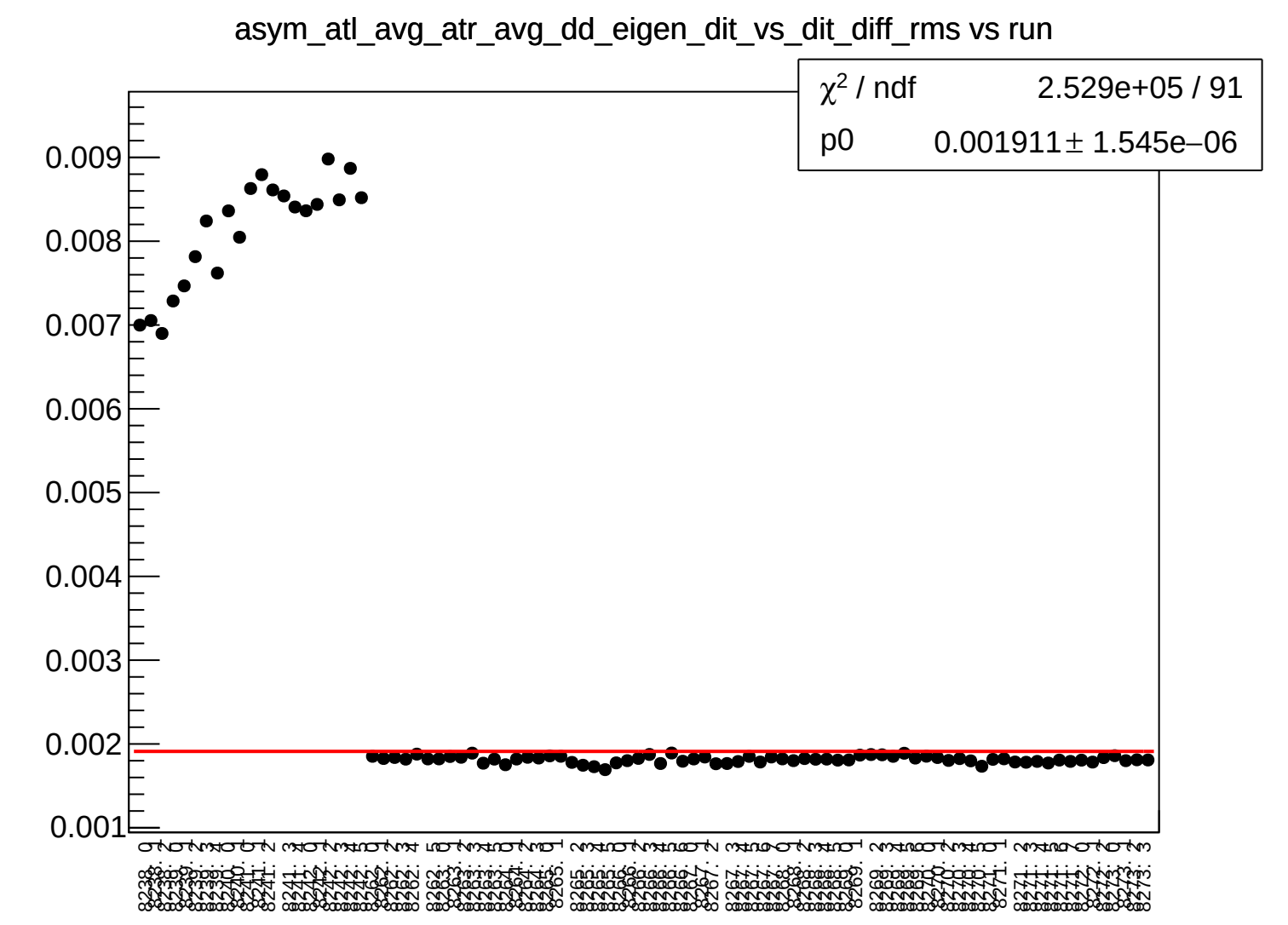

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.492e+05 / 91
p0 44.89 ± 0.03512
100
90
80
70
60
50
40
30
20

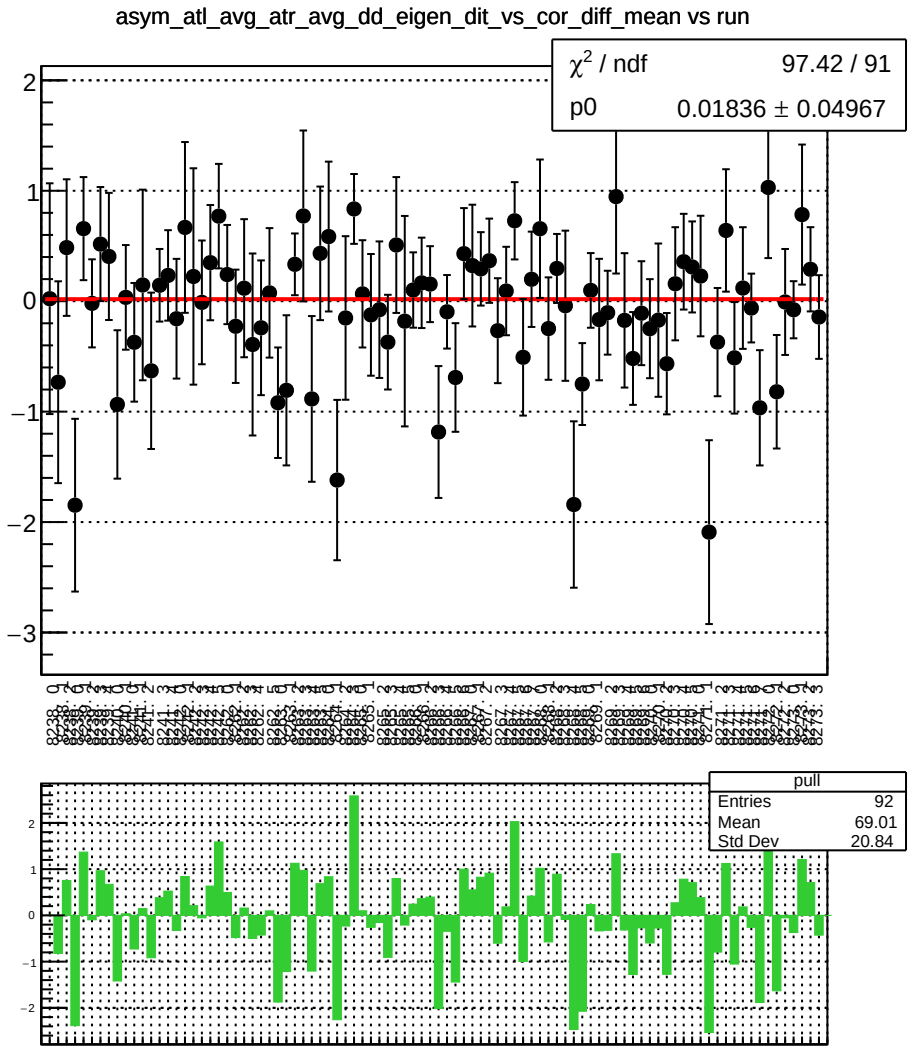

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.42 / 91
p0 0.01836 ± 0.04967
pull
Entries 92
Mean 69.01
Std Dev 20.85
pull1D
Entries 92
Mean −0.08025
Std Dev 1.026

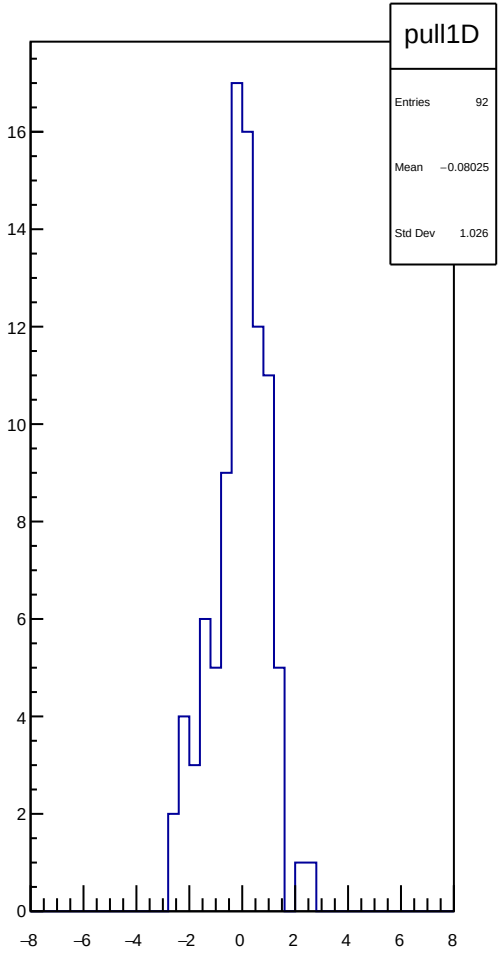

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.492e+05 / 91
p0 44.89 ± 0.03512
100
90
80
70
60
50
40
30
20

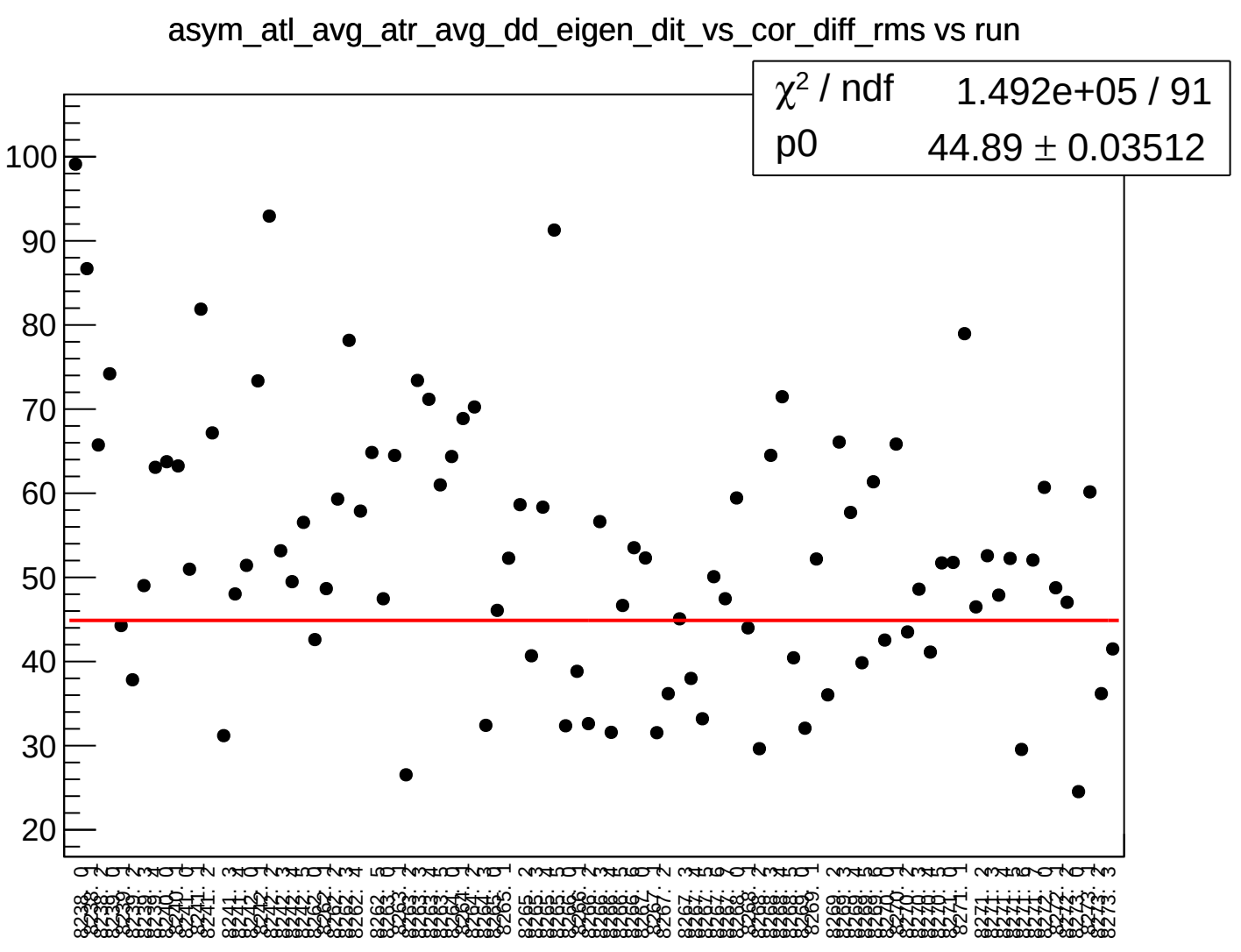

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.02 / 91
p0 −1.53e−06 ± 2.185e−06
pull
Entries 92
Mean 10.33
Std Dev 22.5

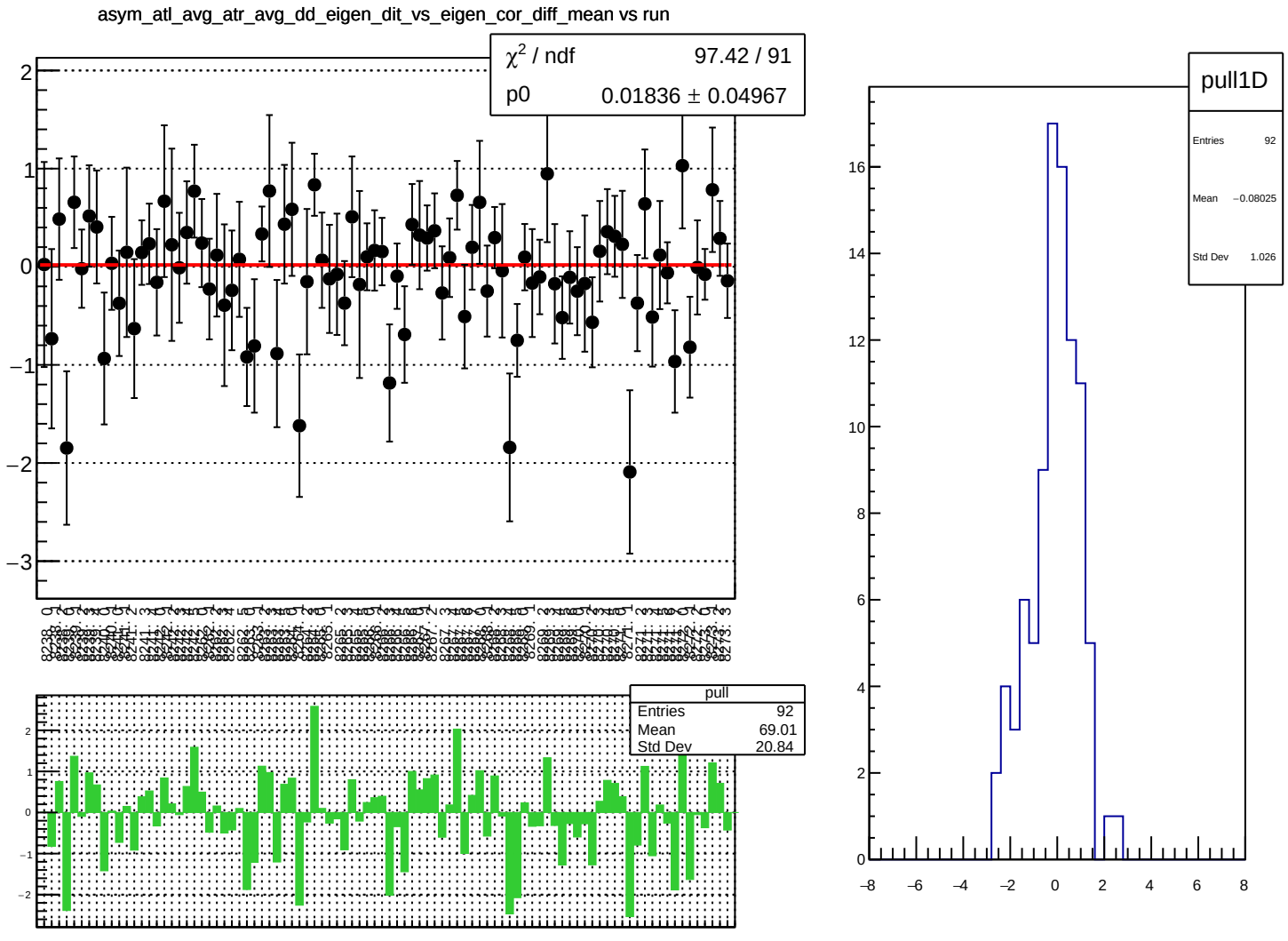

pull1D
Entries 92
Mean 0.06307
Std Dev 1.03

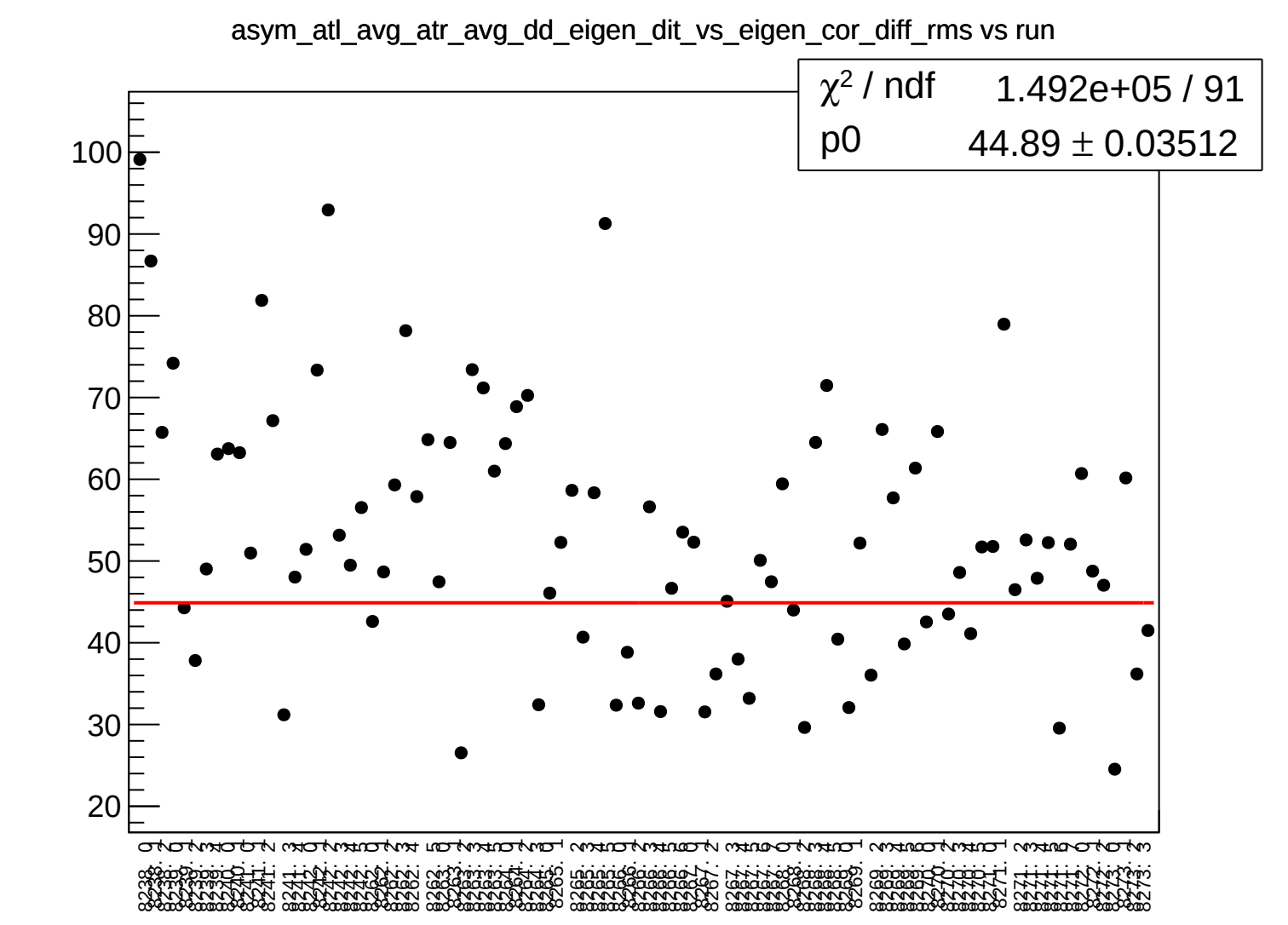

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.529e+05 / 91
p0 0.001911 ± 1.545e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

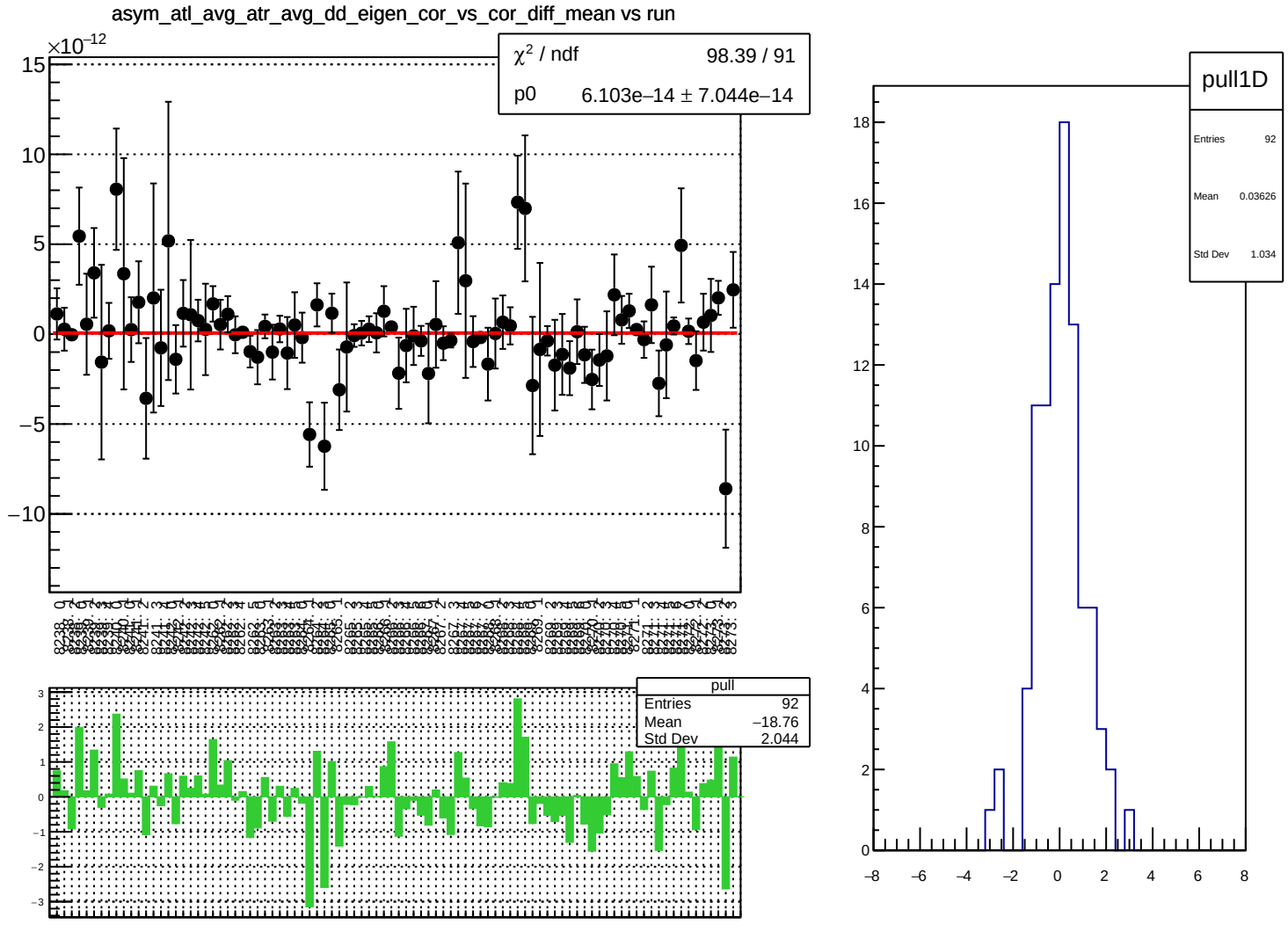

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.42 / 91
p0 0.01836 ± 0.04967
pull
Entries 92
Mean 69.01
Std Dev 20.84

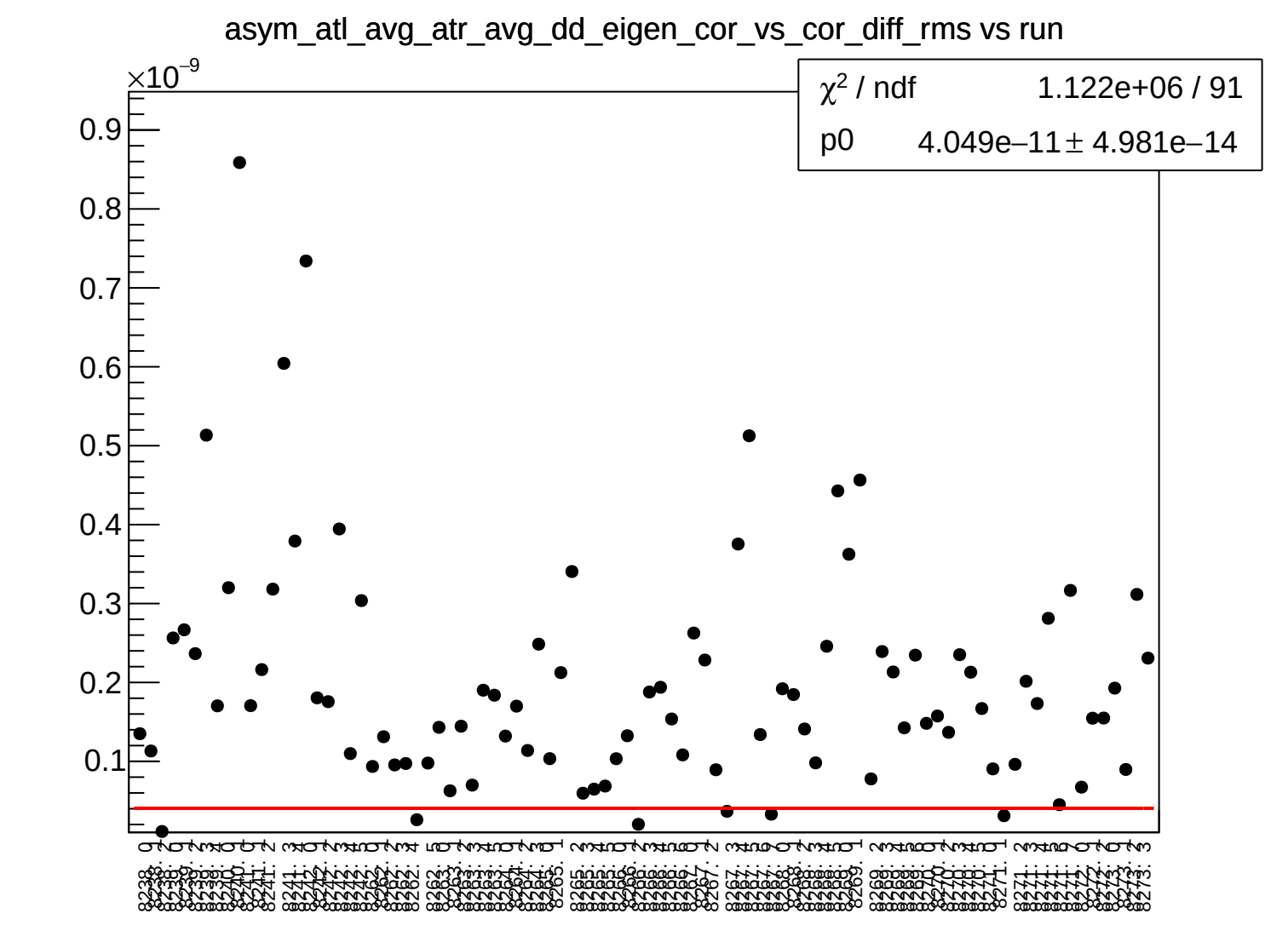

pull1D
Entries 92
Mean −0.08025
Std Dev 1.026

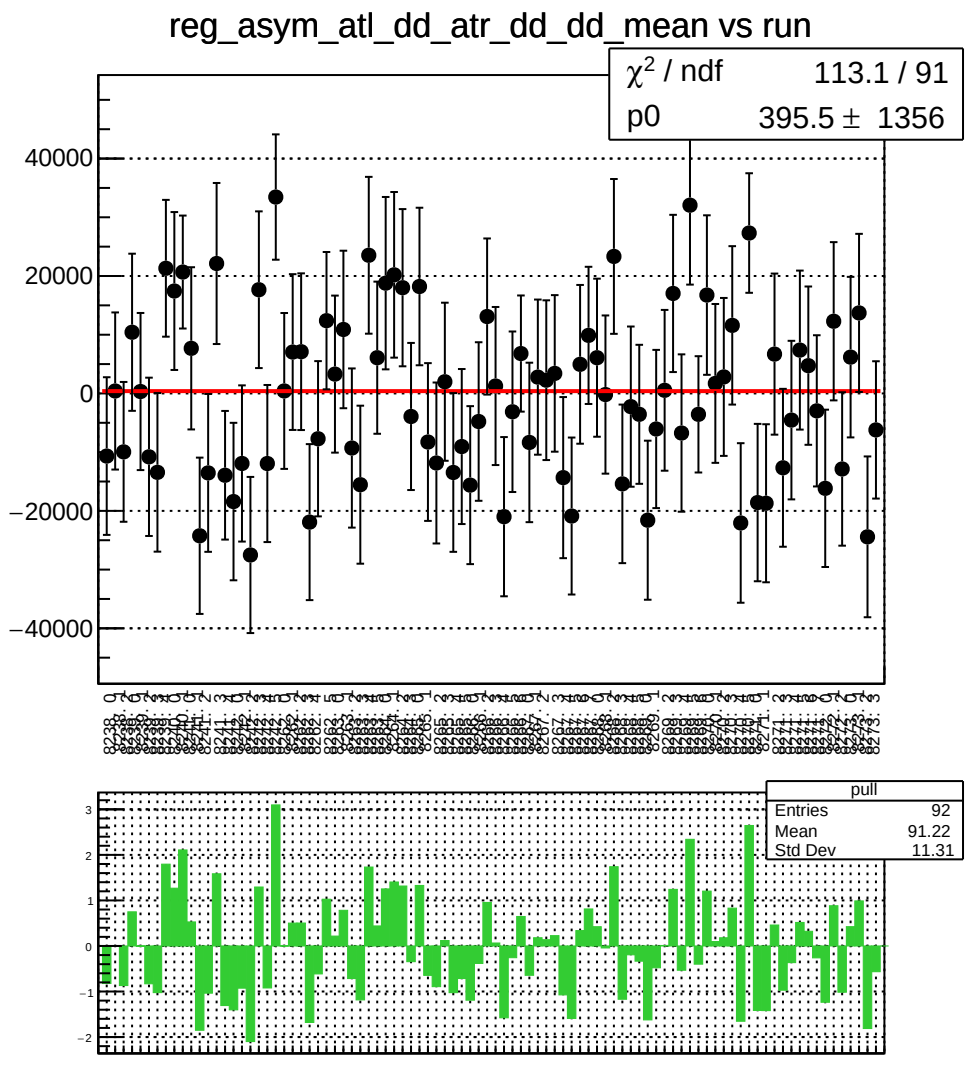

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.492e+05 / 91
p0 44.89 ± 0.03512
100
90
80
70
60
50
40
30
20

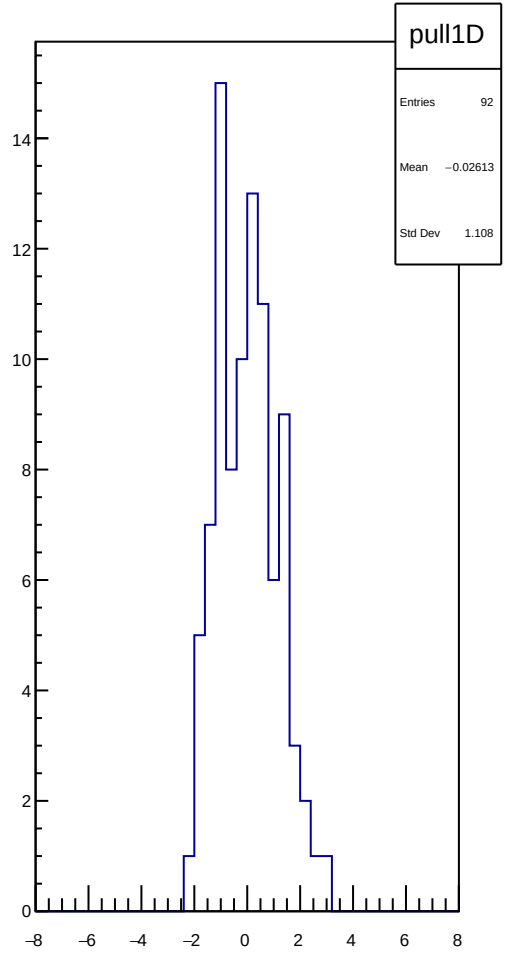

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.42 / 91
p0 0.01836 ± 0.04967
pull
Entries 92
Mean 69.01
Std Dev 20.84
pull1D
Entries 92
Mean −0.08025
Std Dev 1.026

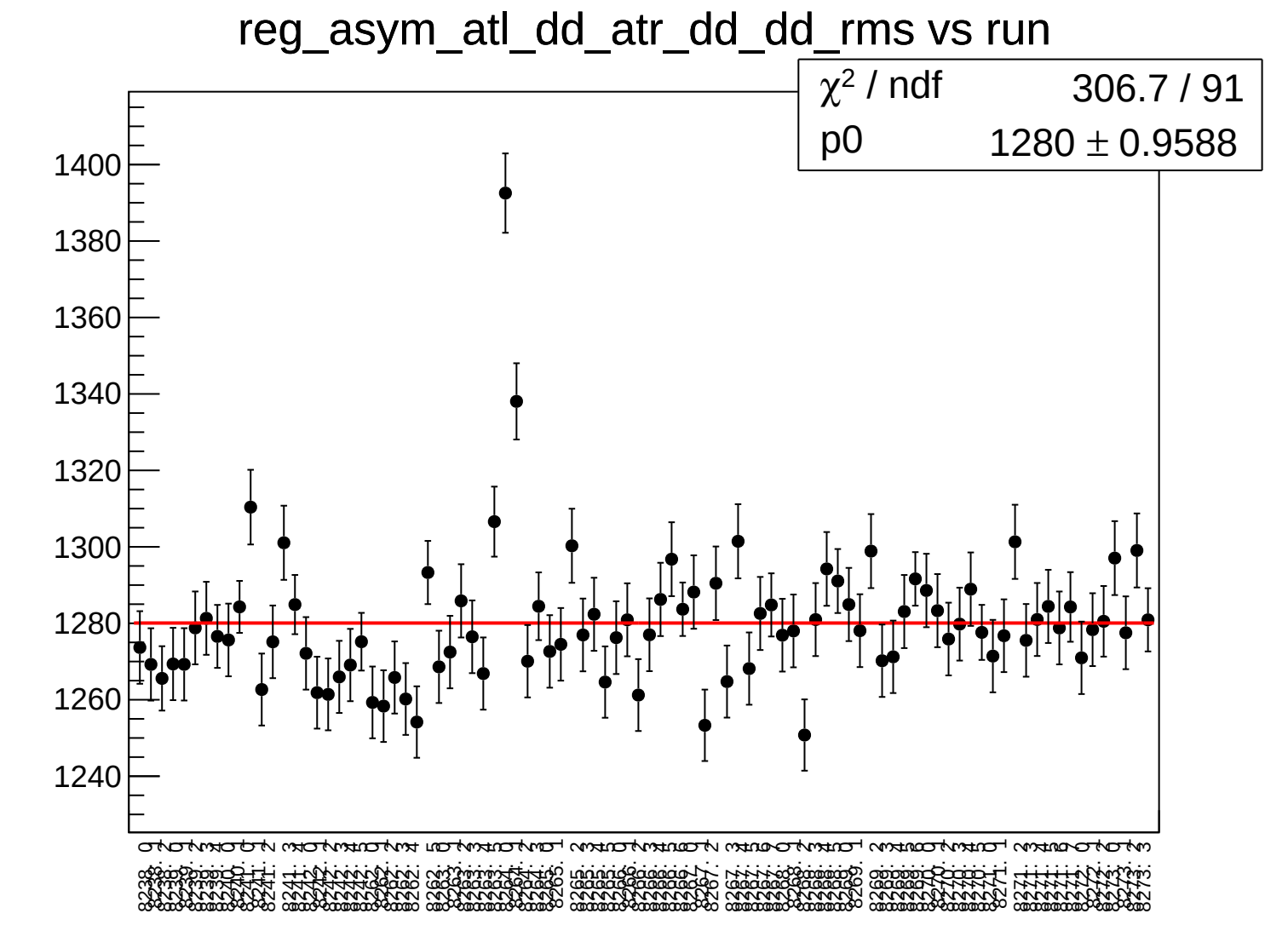

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.492e+05 / 91
p0 44.89 ± 0.03512
100
90
80
70
60
50
40
30
20

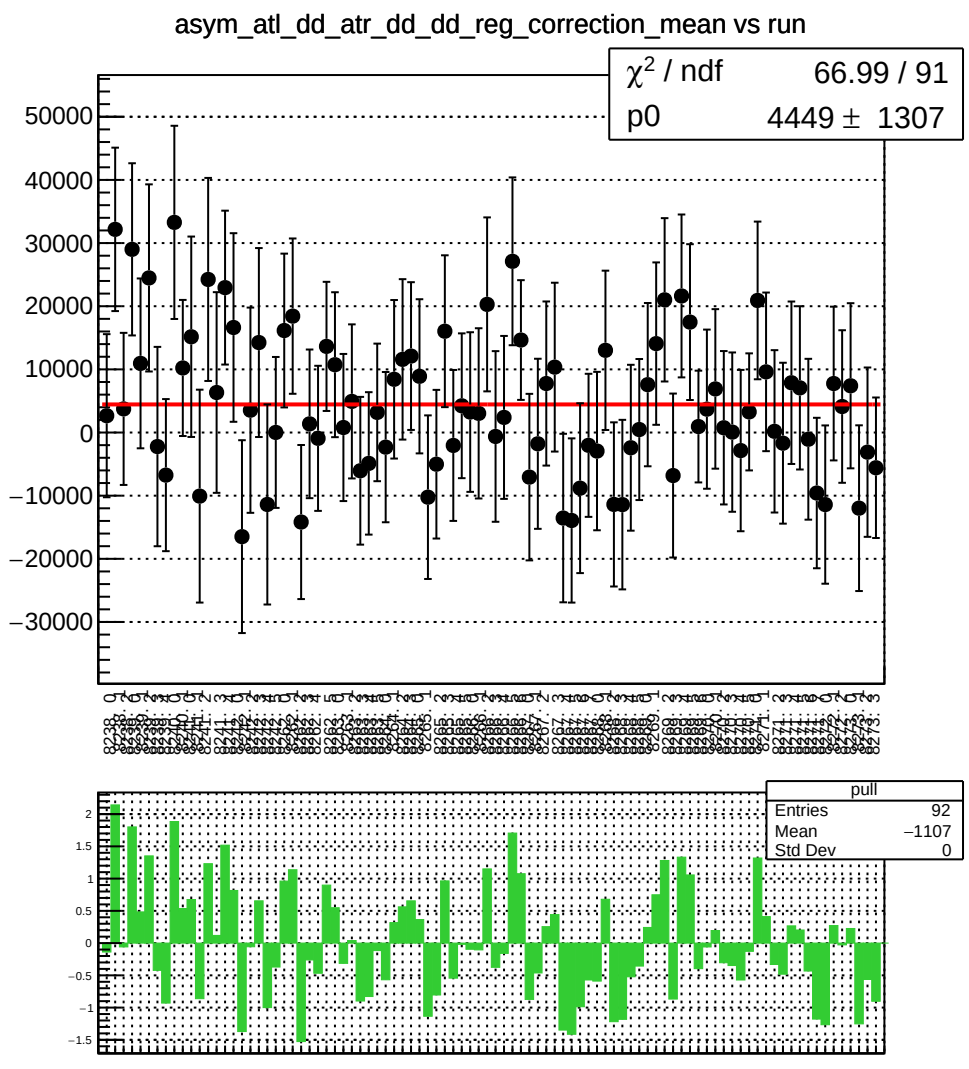

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.39 / 91
p0 6.103e−14 ± 7.044e−14
pull
Entries 92
Mean −18.76
Std Dev 2.044
pull1D
Entries 92
Mean 0.03626
Std Dev 1.034

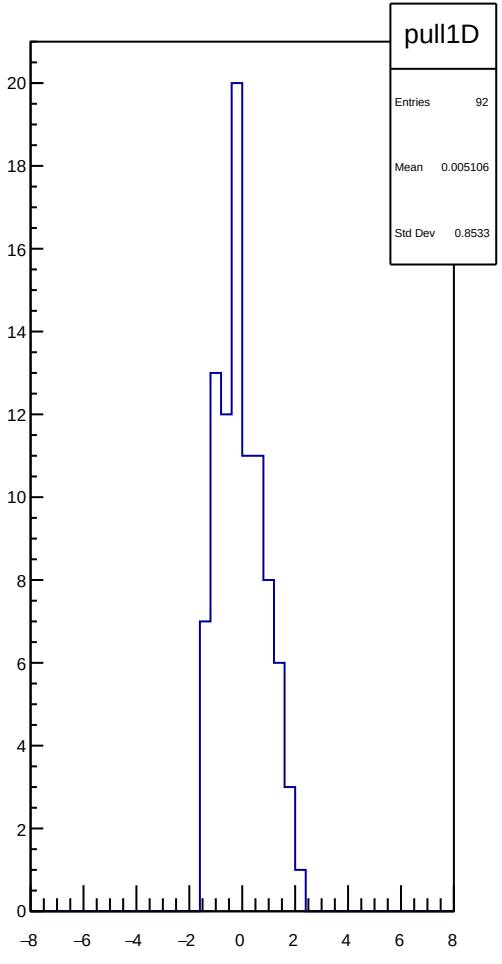

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.122e+06 / 91
p0 4.049e−11 ± 4.981e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

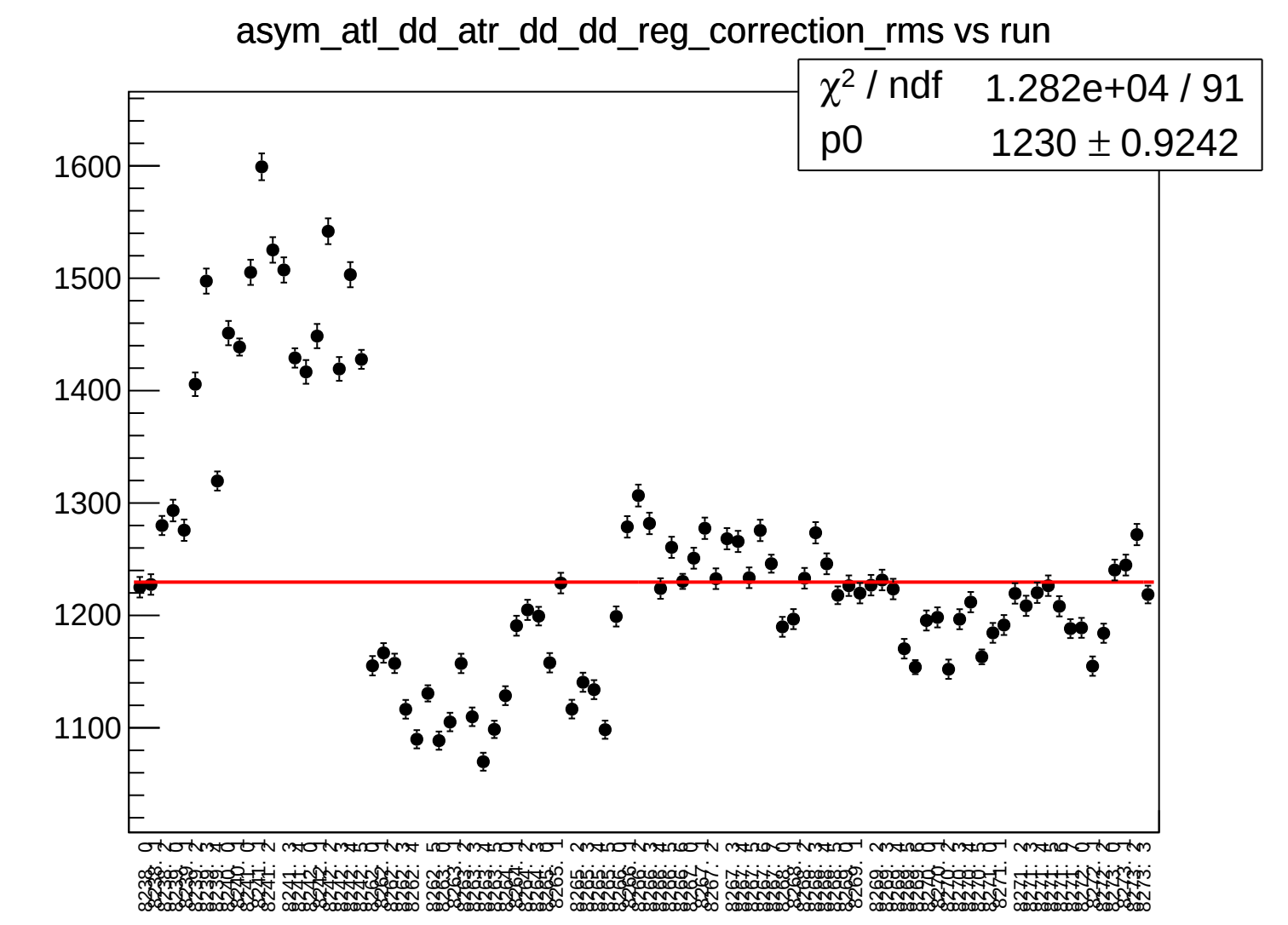

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 113.1 / 91
p0 395.5 ± 1356
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 91.22
Std Dev 11.31
3
2
1
0
−1
−2

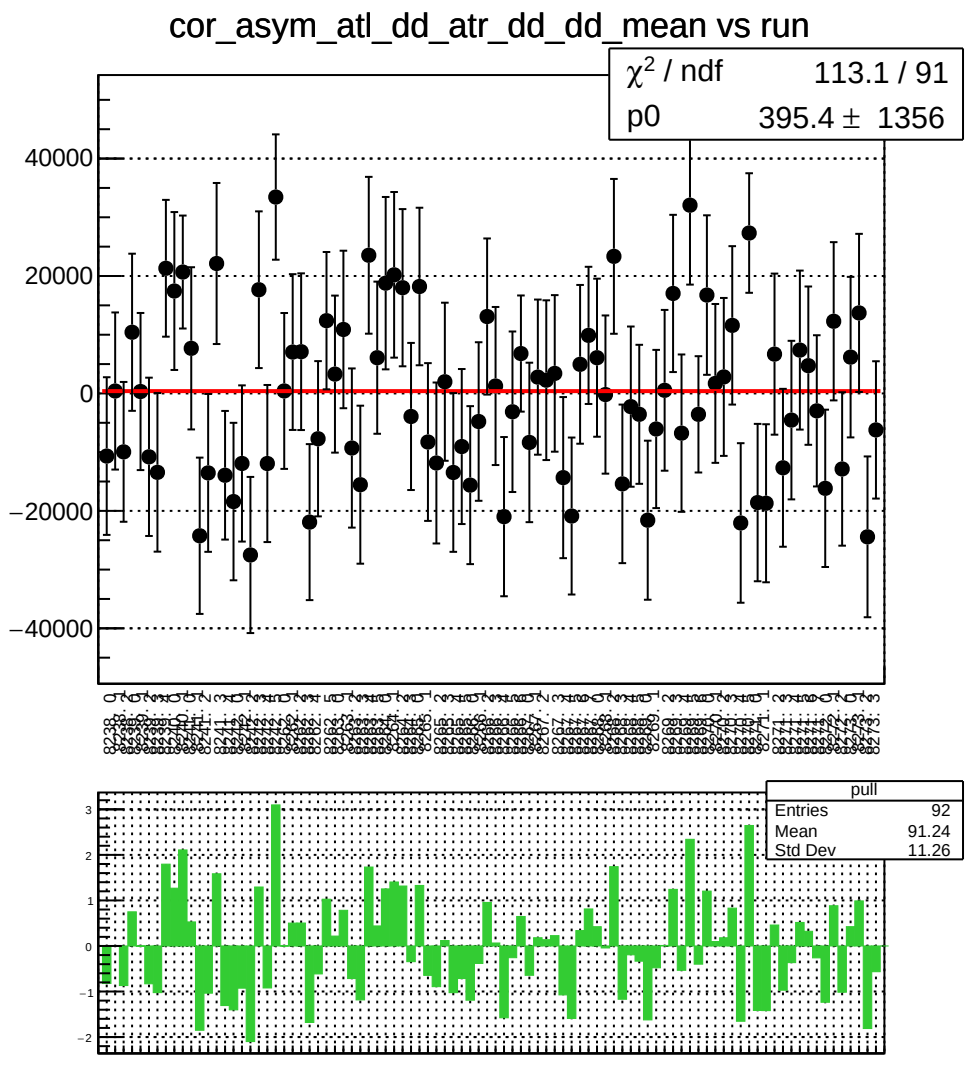

pull1D
Entries 92
Mean −0.02613
Std Dev 1.108
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

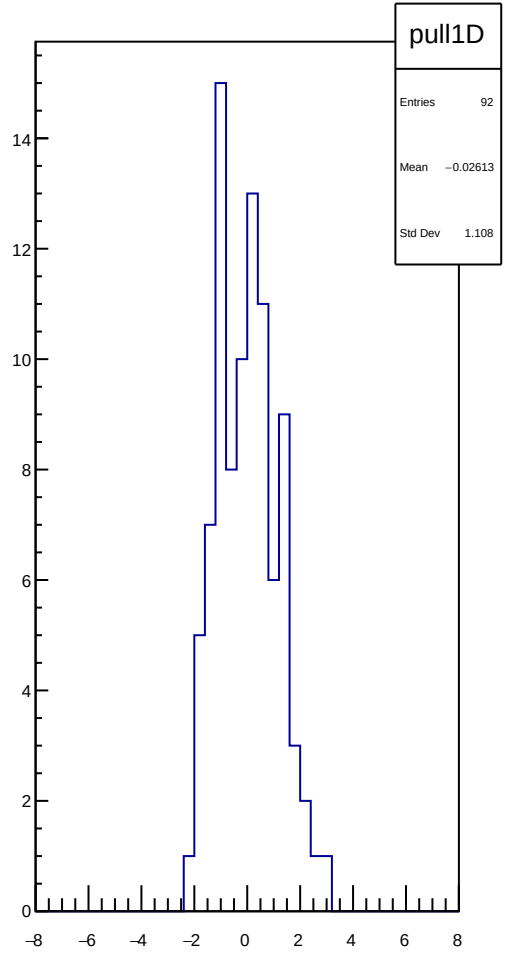

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 306.7 / 91
p0 1280 ± 0.9588
1400
1380
1360
1340
1320
1300
1280
1260
1240

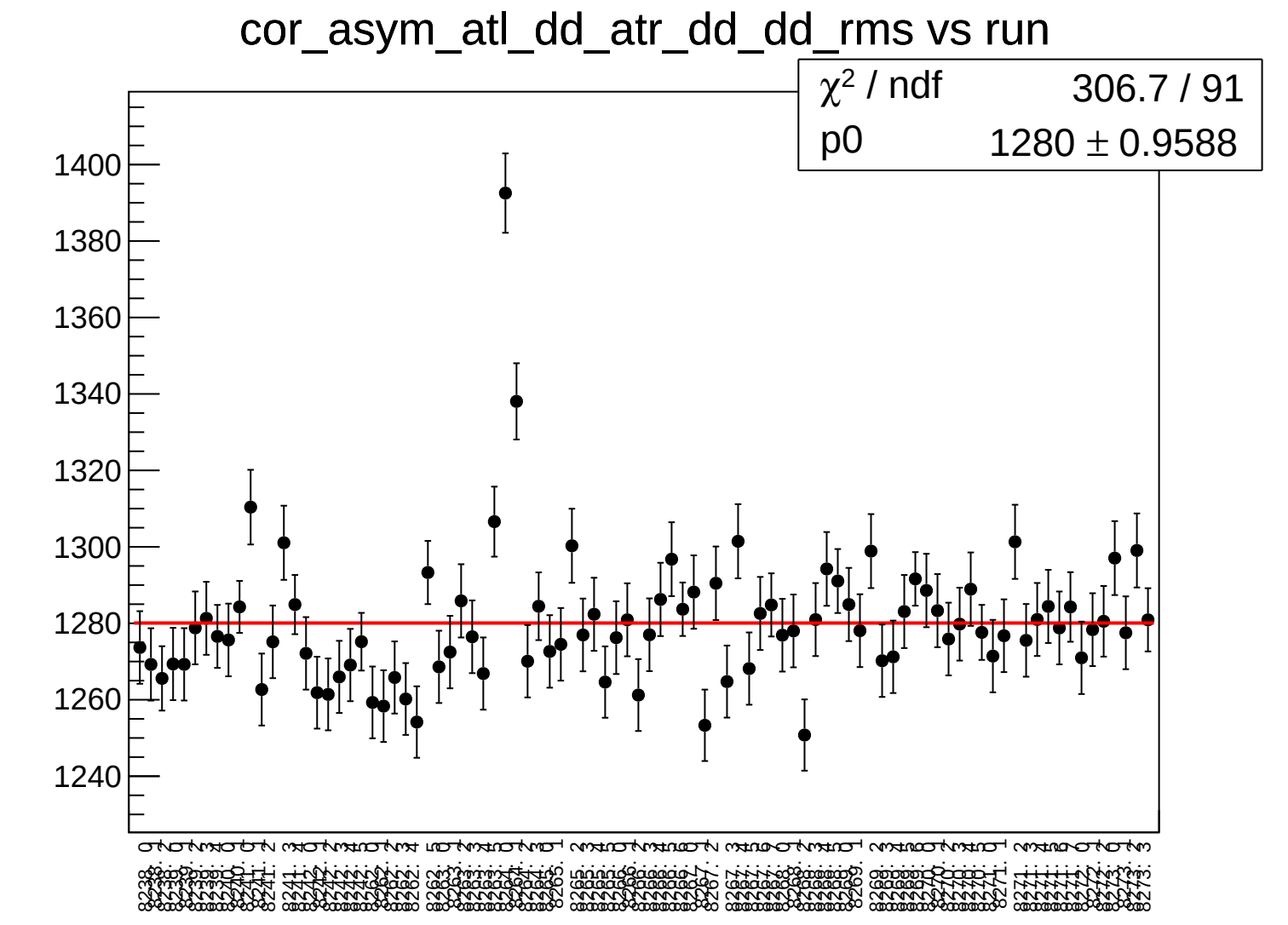

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 66.99 / 91
p0 4449 ± 1307
pull
Entries 92
Mean −1107
Std Dev 0

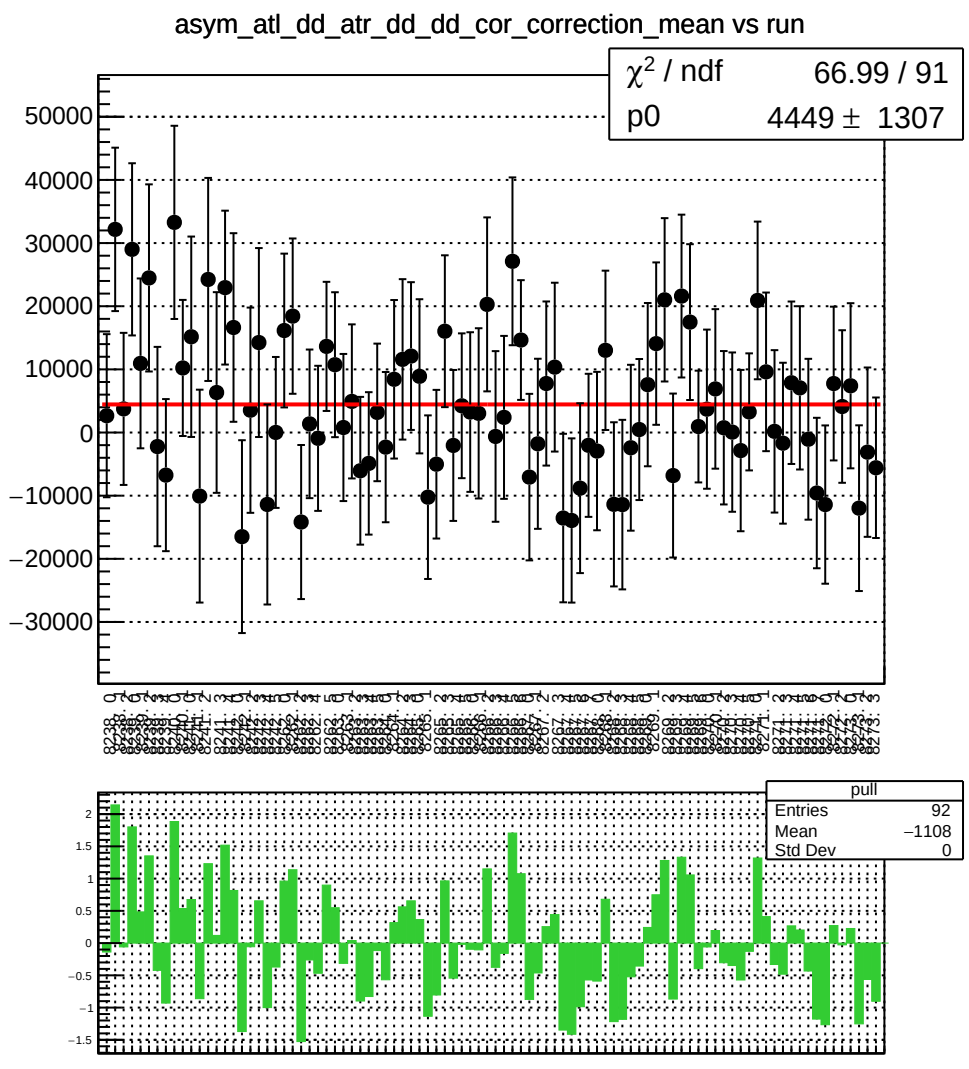

pull1D
Entries 92
Mean 0.005106
Std Dev 0.8533

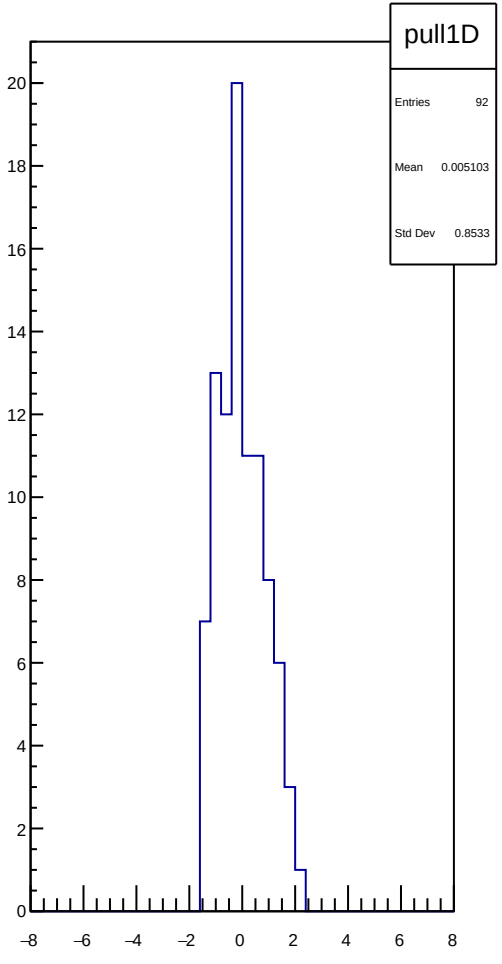

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.282e+04 / 91
p0 1230 ± 0.9242
1600
1500
1400
1300
1200
1100

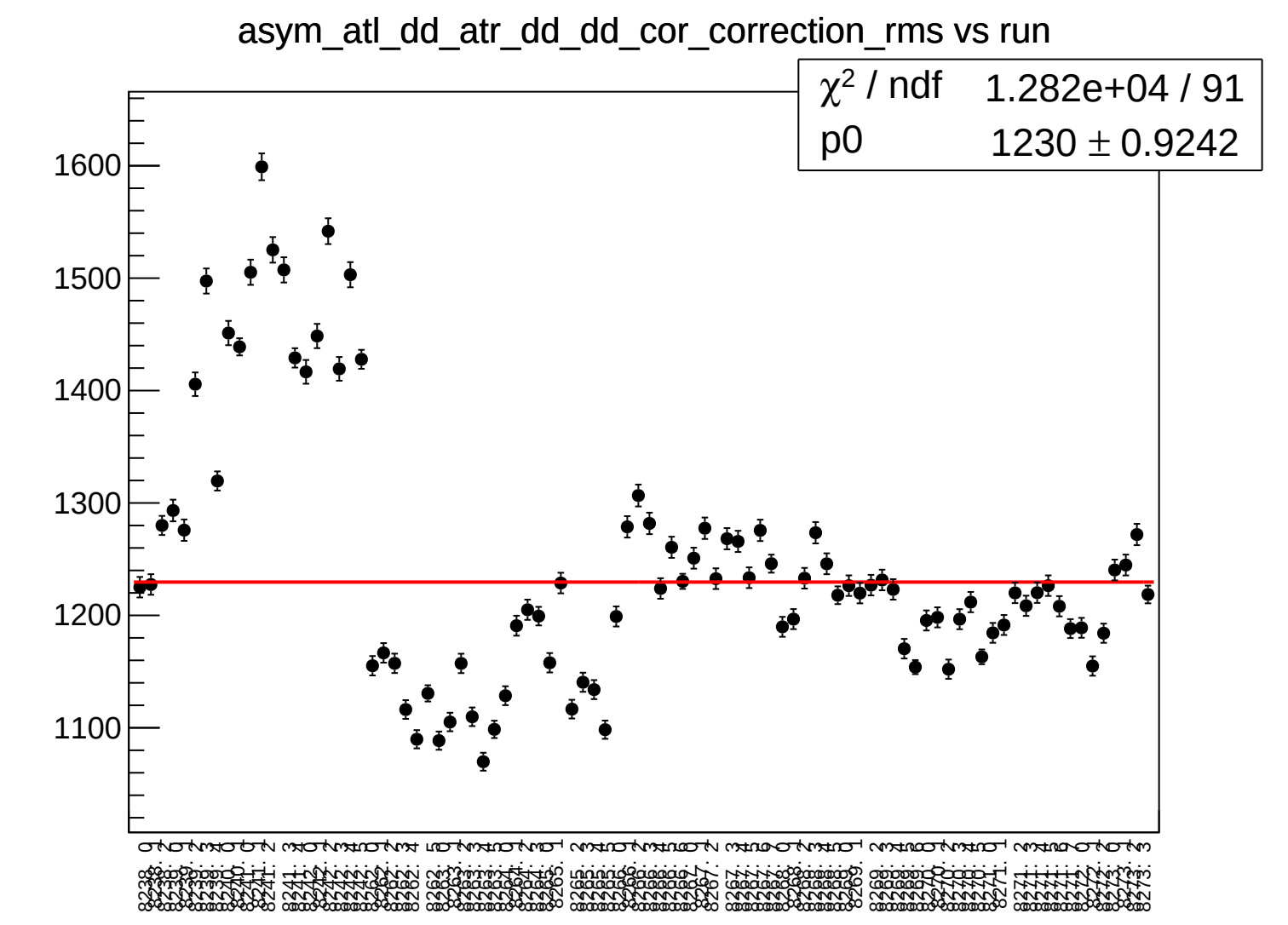

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 113.1 / 91
p0 395.4 ± 1356
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 91.24
Std Dev 11.26
3
2
1
0
−1
−2

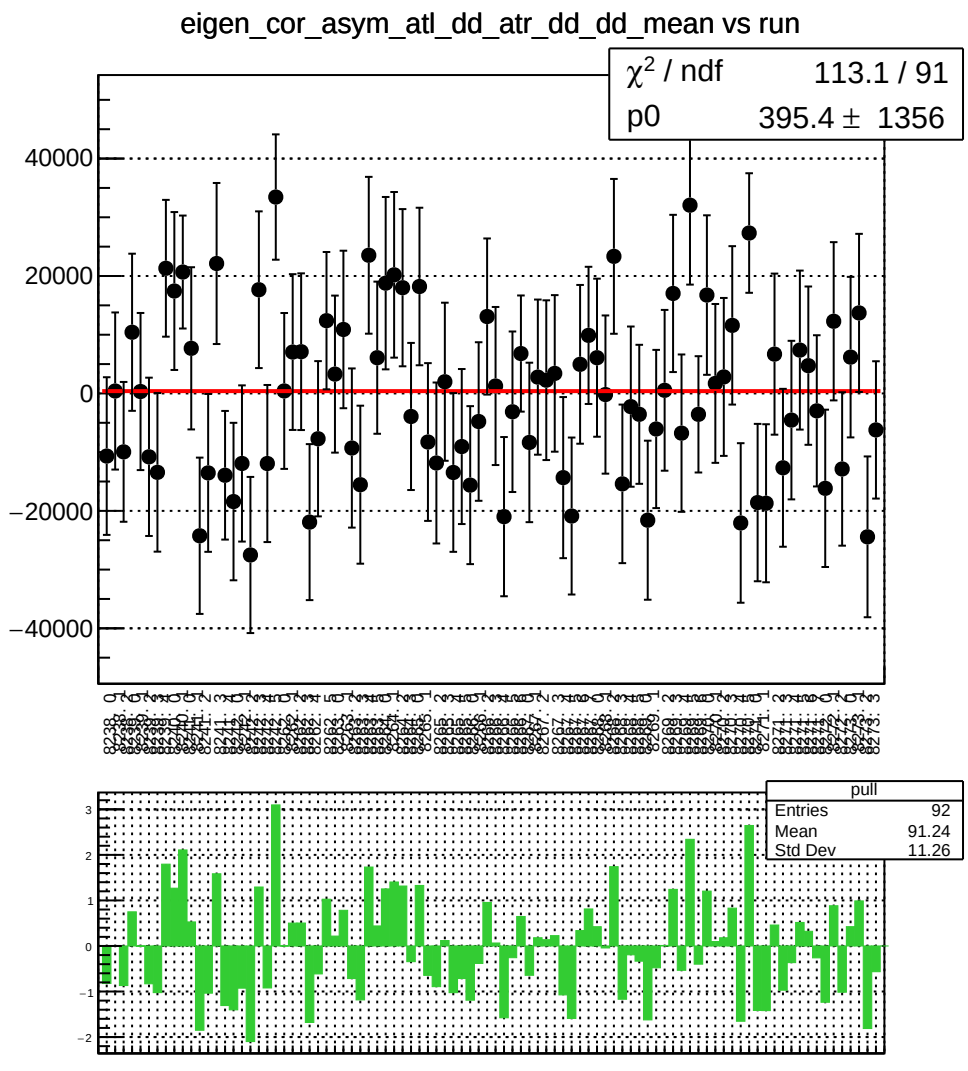

pull1D
Entries 92
Mean −0.02613
Std Dev 1.108
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

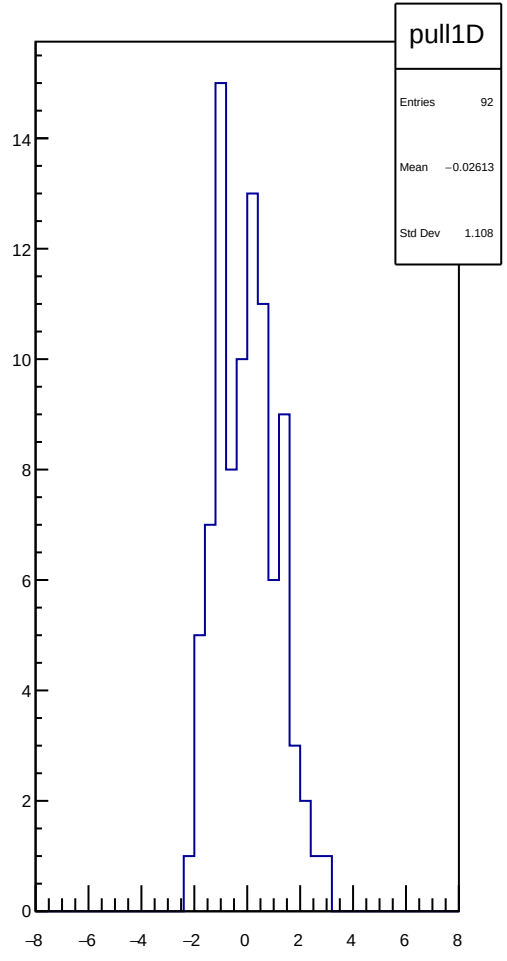

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 306.7 / 91
p0 1280 ± 0.9588
1400
1380
1360
1340
1320
1300
1280
1260
1240

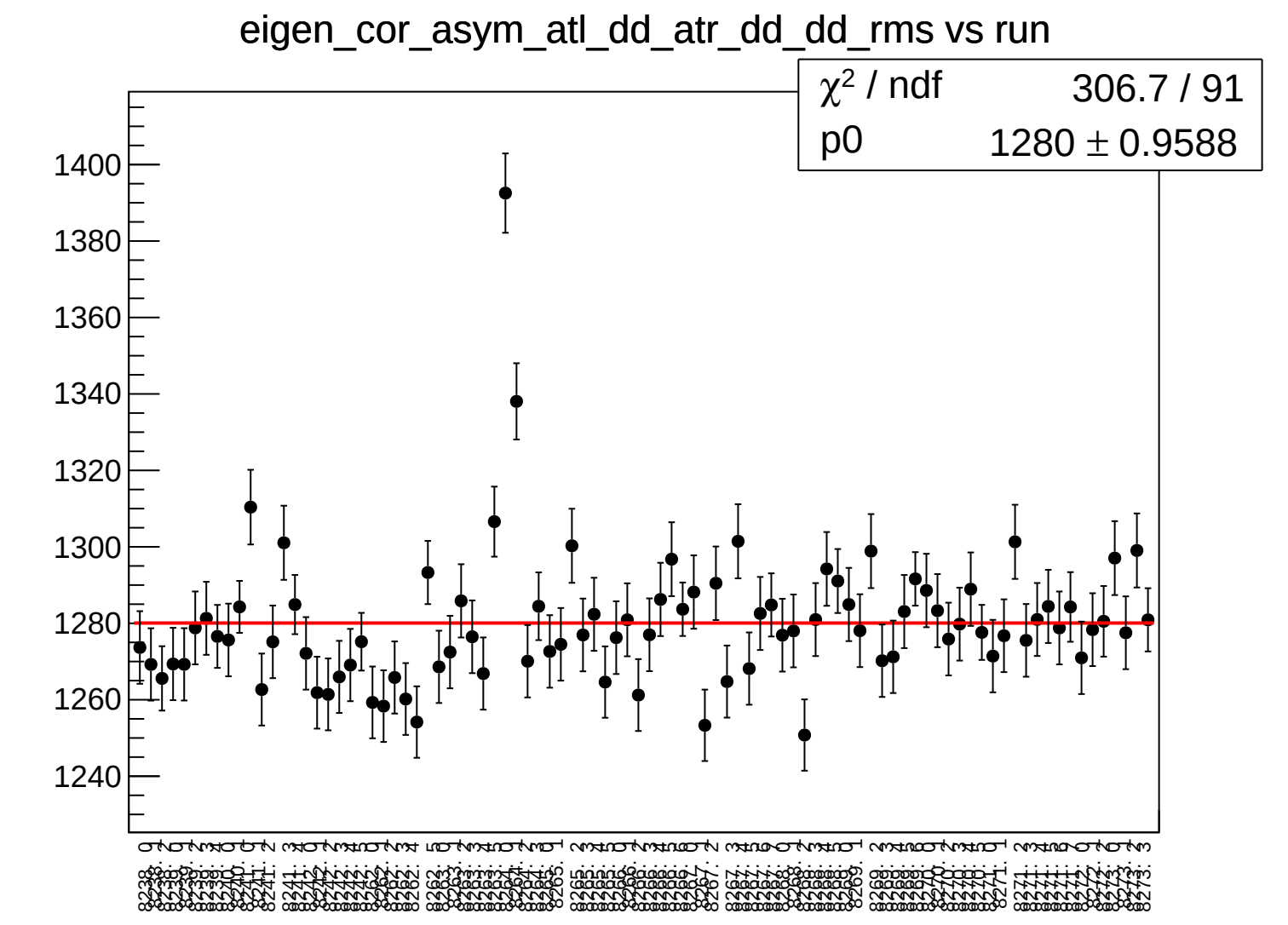

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 66.99 / 91
p0 4449 ± 1307
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1108
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

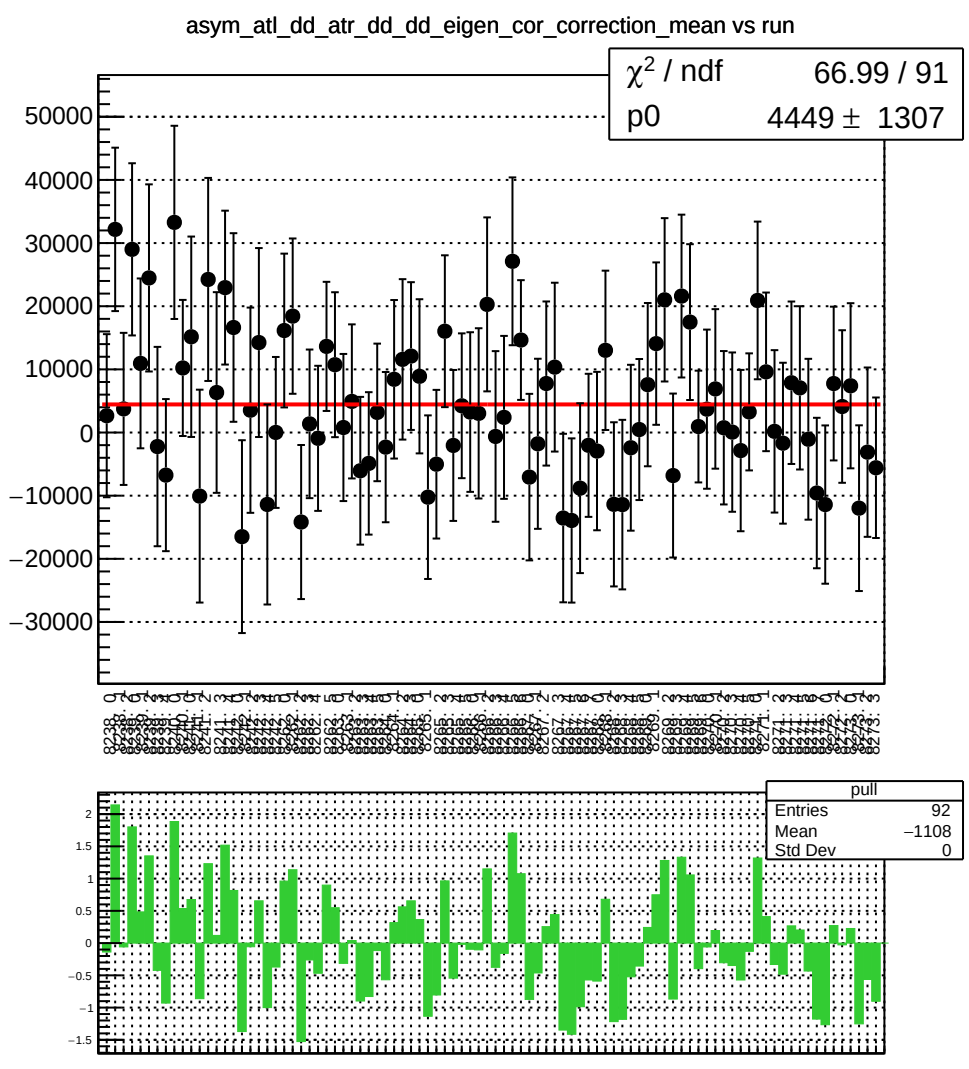

pull1D
Entries 92
Mean 0.005103
Std Dev 0.8533
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

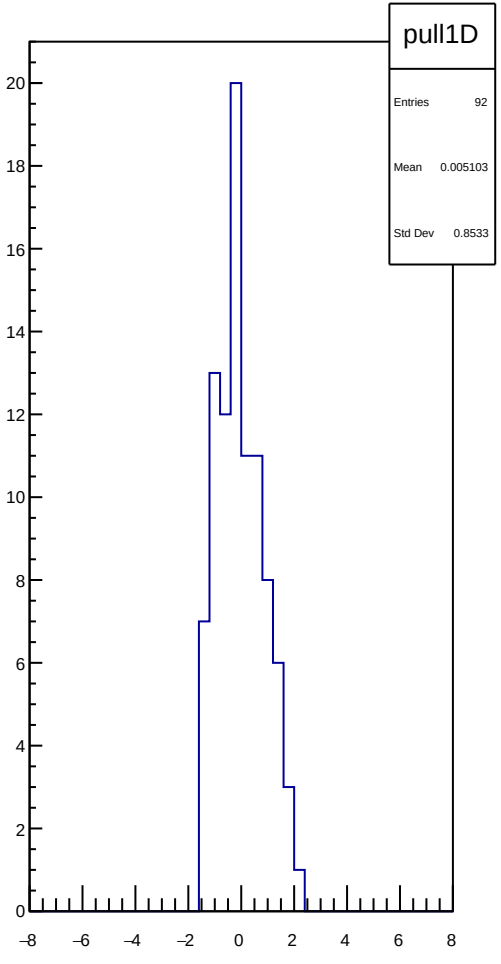

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.282e+04 / 91
p0 1230 ± 0.9242
1600
1500
1400
1300
1200
1100

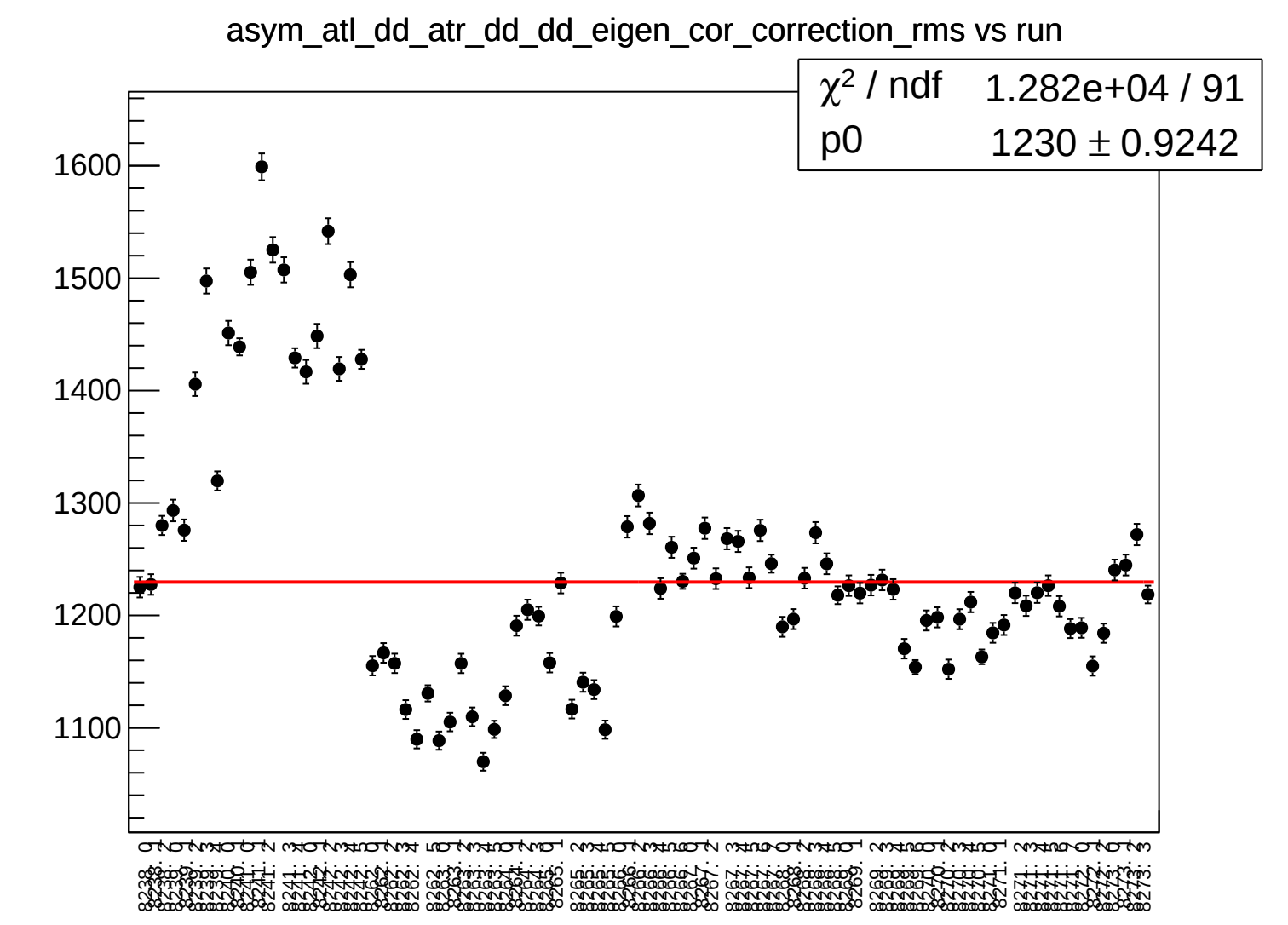

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 113.1 / 91
p0 395.4 ± 1356
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 91.24
Std Dev 11.26
3
2
1
0
−1
−2

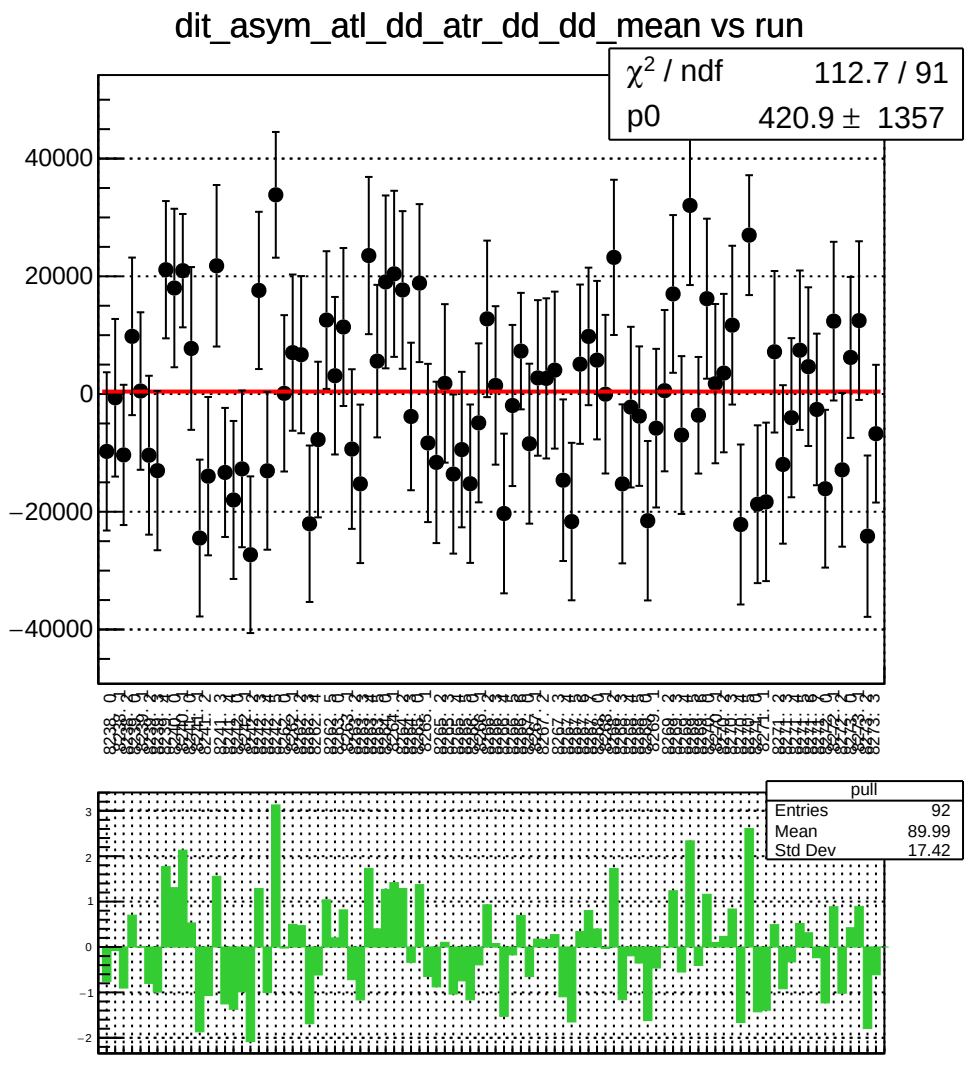

pull1D
Entries 92
Mean −0.02613
Std Dev 1.108
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

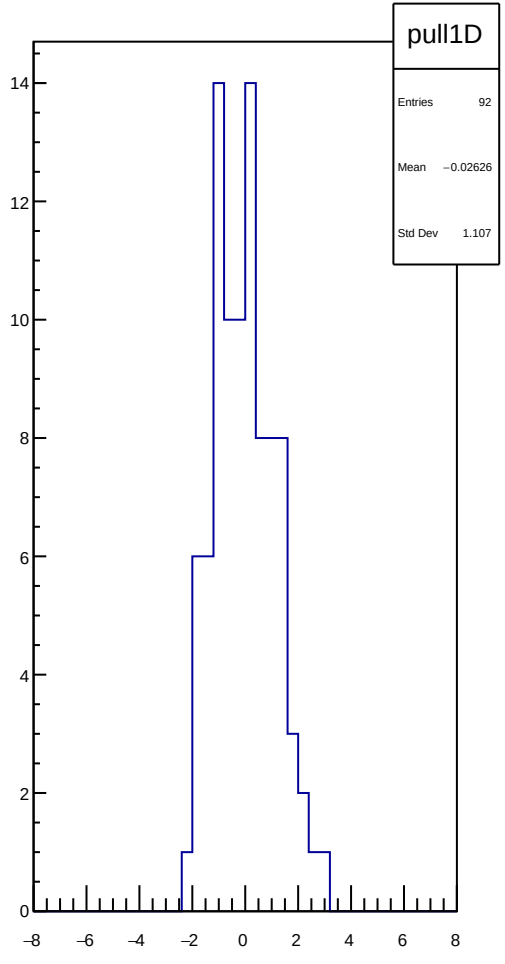

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 306.7 / 91
p0 1280 ± 0.9588
1400
1380
1360
1340
1320
1300
1280
1260
1240

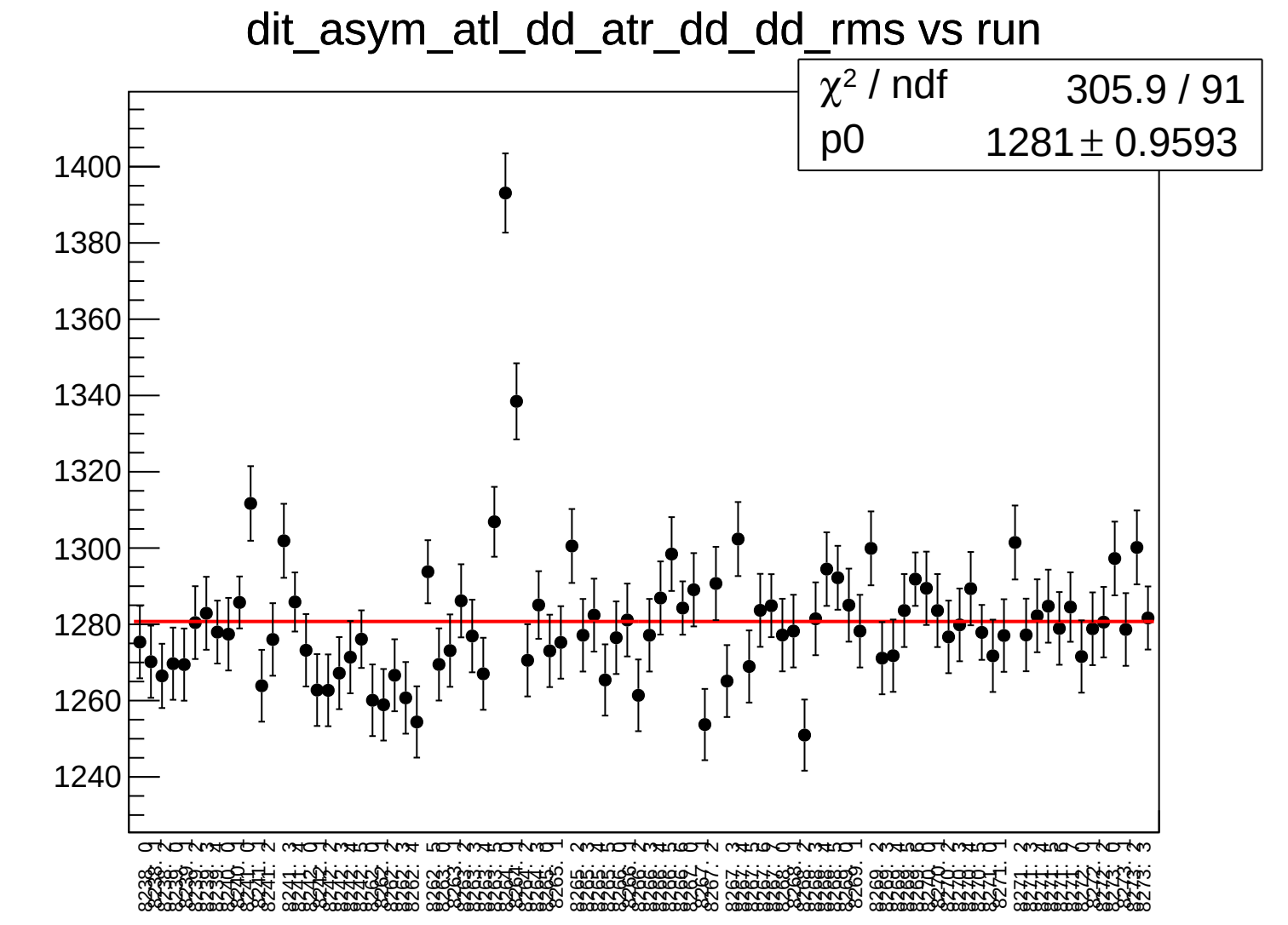

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 66.99 / 91
p0 4449 ± 1307
pull
Entries 92
Mean −1108
Std Dev 0

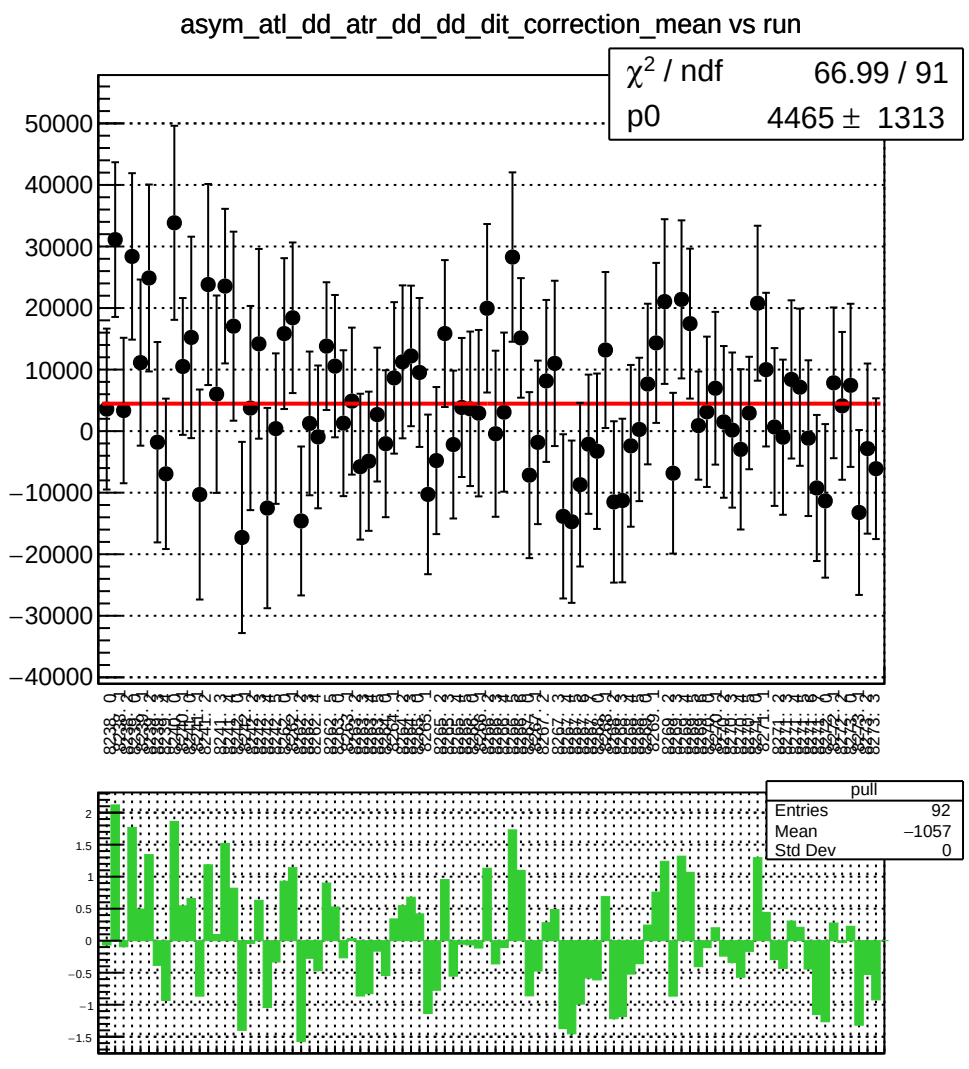

pull1D
Entries 92
Mean 0.005103
Std Dev 0.8533

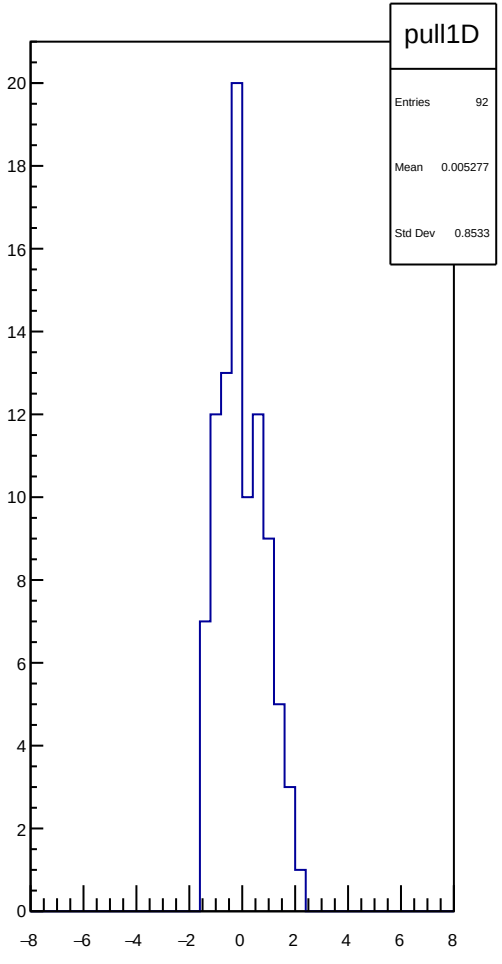

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.282e+04 / 91
p0 1230 ± 0.9242
1600
1500
1400
1300
1200
1100

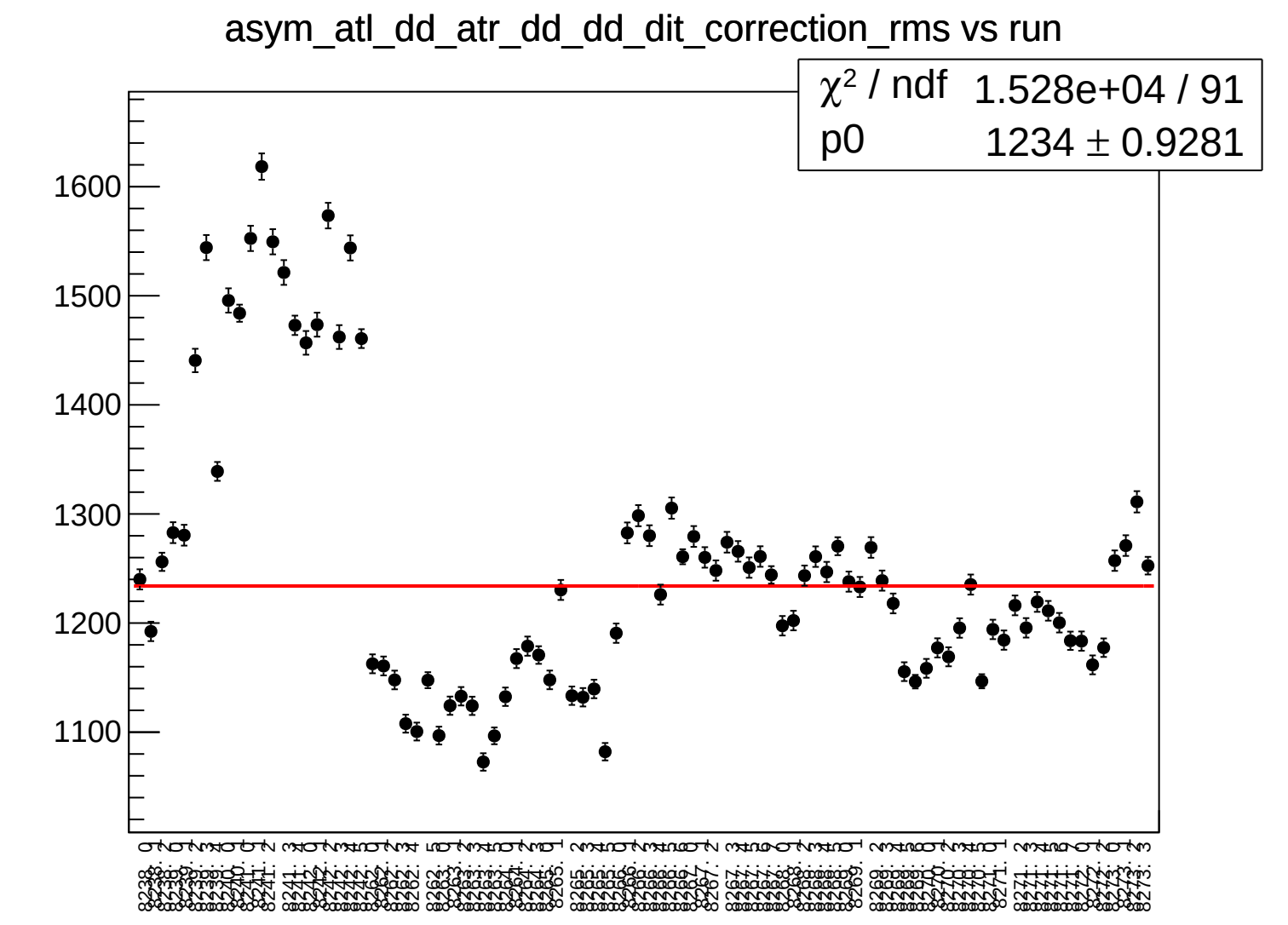

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 112.7 / 91
p0 420.9 ± 1357
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 89.99
Std Dev 17.42
3
2
1
0
−1
−2

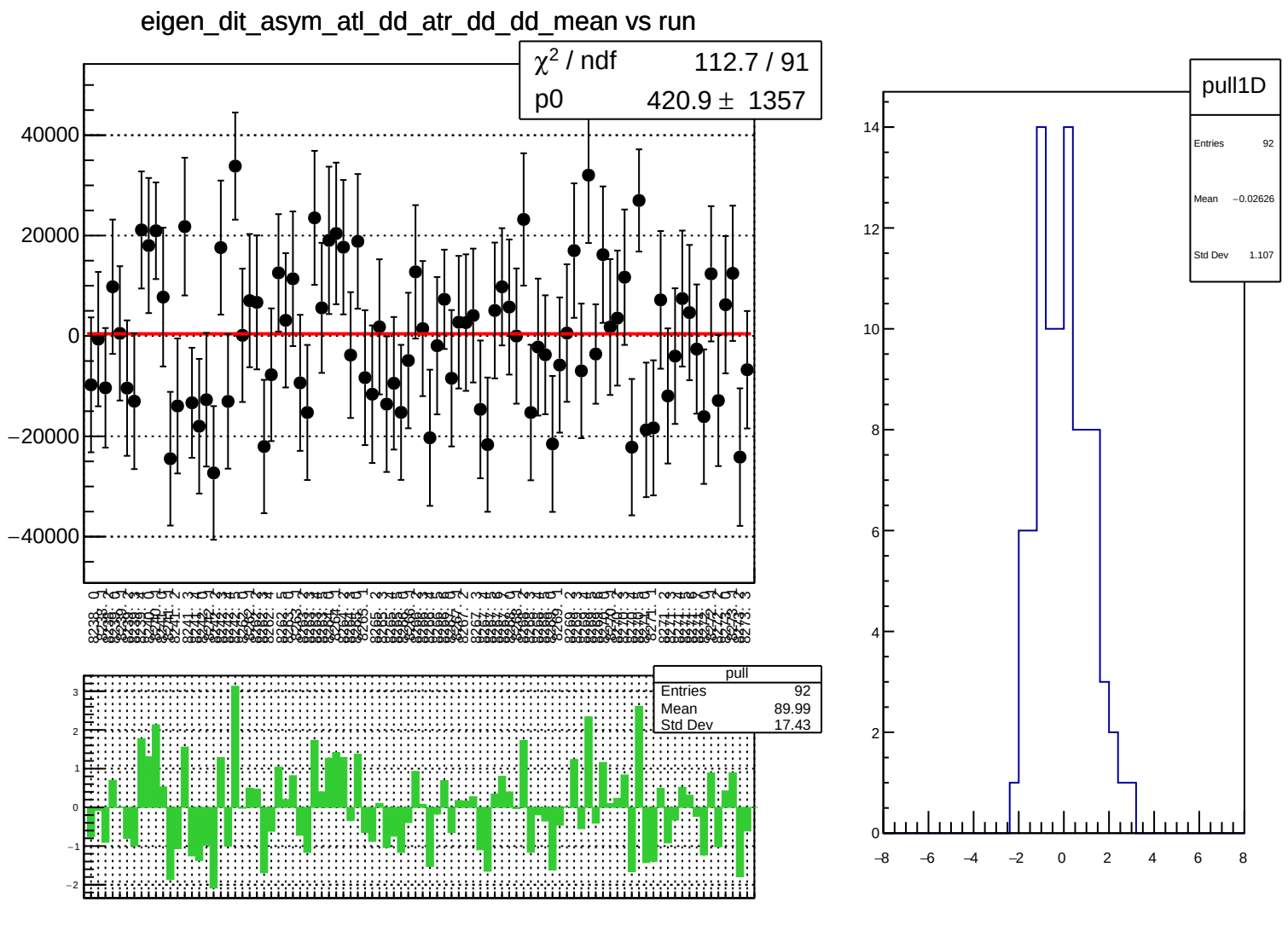

pull1D
Entries 92
Mean −0.02626
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

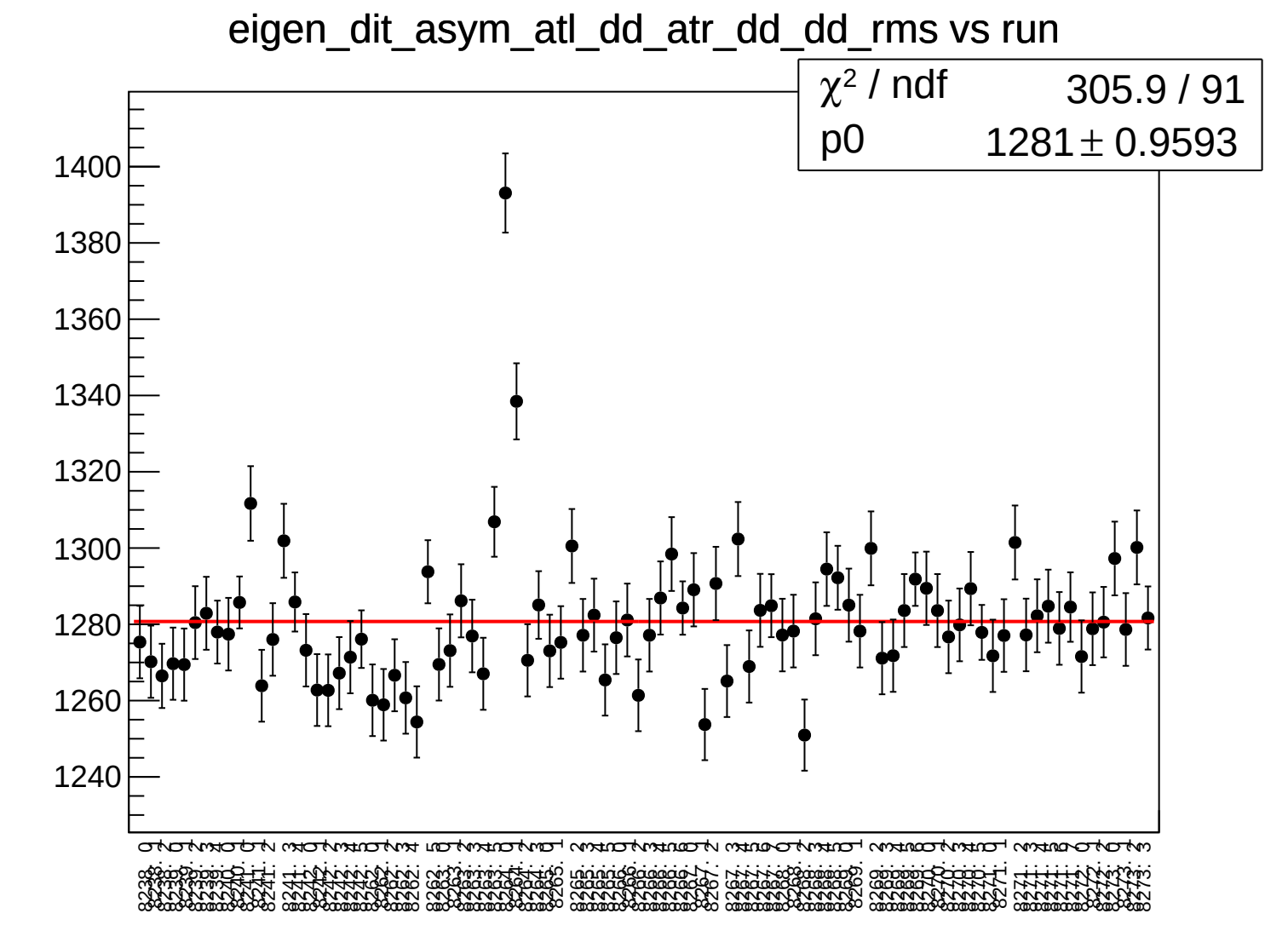

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 305.9 / 91
p0 1281 ± 0.9593
1400
1380
1360
1340
1320
1300
1280
1260
1240

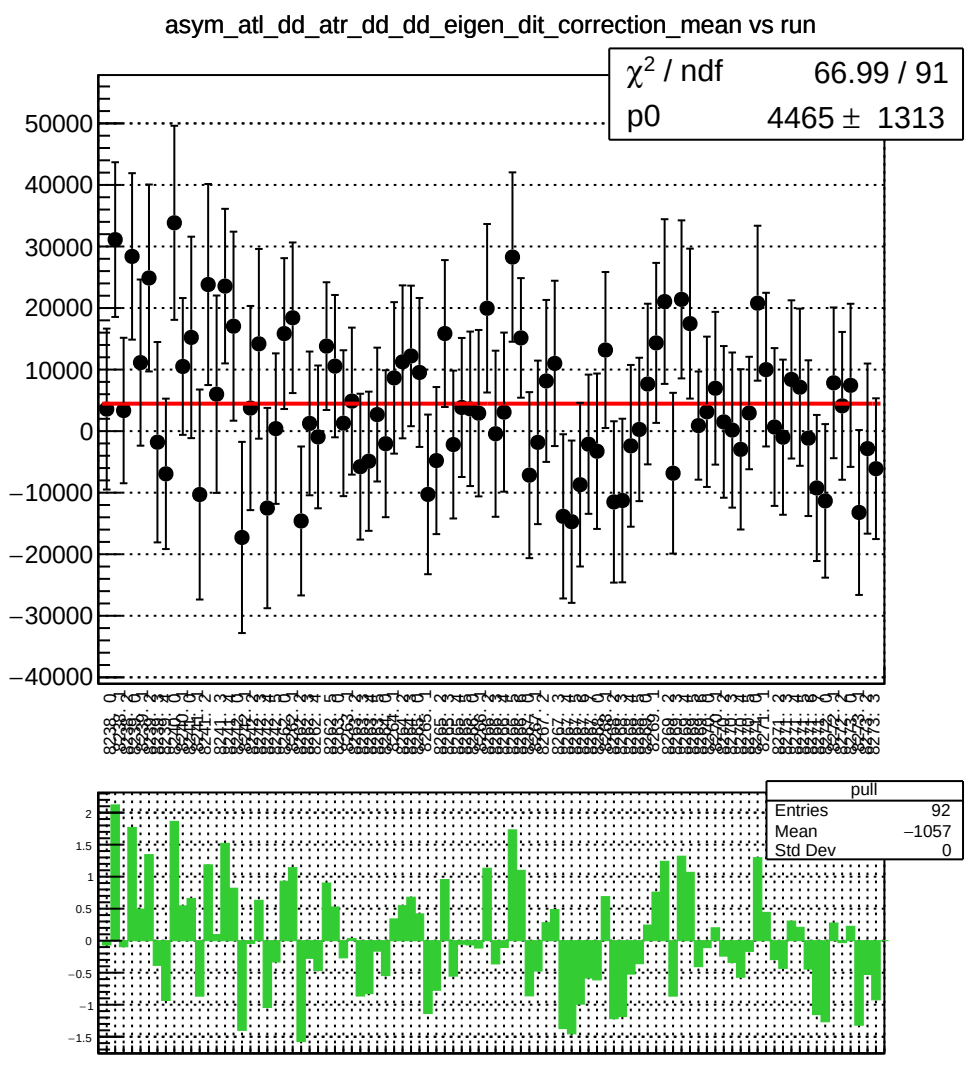

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 66.99 / 91
p0 4465 ± 1313
pull
Entries 92
Mean −1057
Std Dev 0

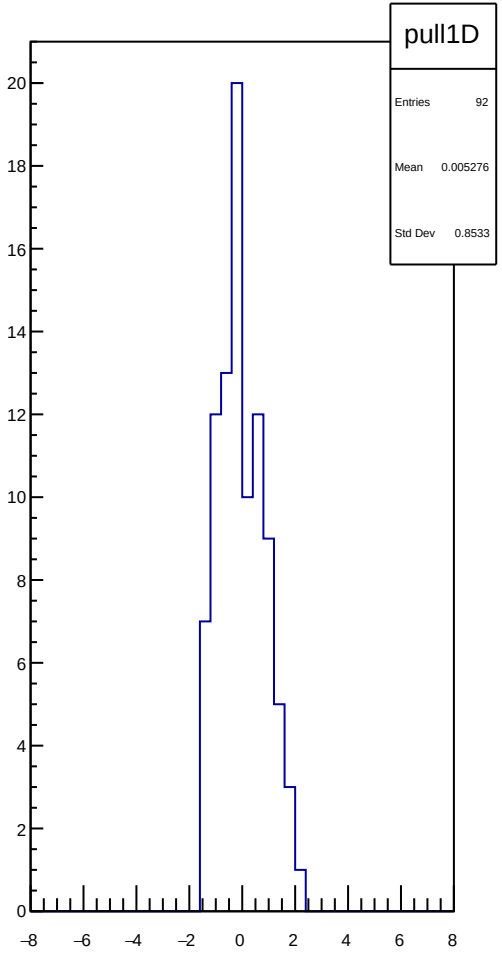

pull1D
Entries 92
Mean 0.005277
Std Dev 0.8533

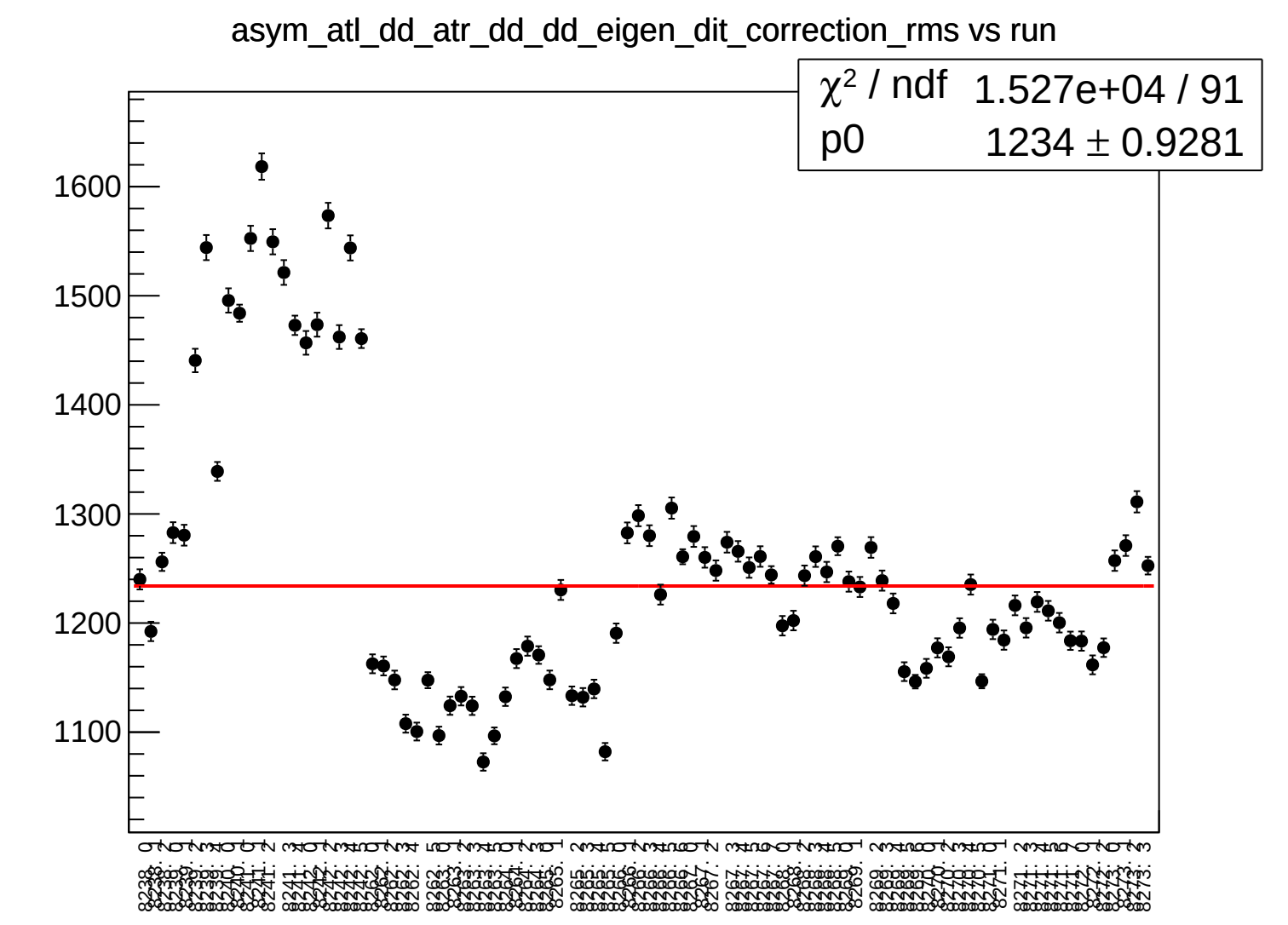

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.528e+04 / 91
p0 1234 ± 0.9281
1600
1500
1400
1300
1200
1100

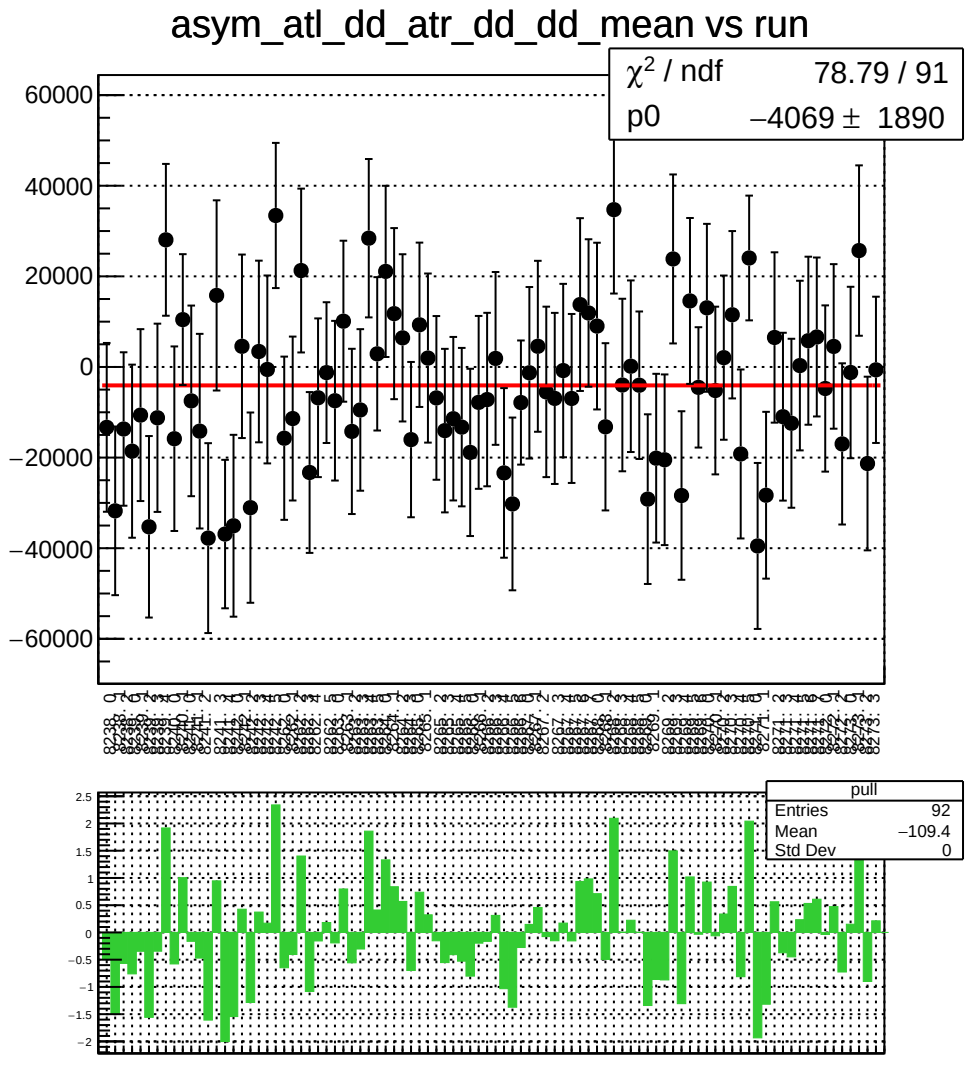

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 112.7 / 91
p0 420.9 ± 1357
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 89.99
Std Dev 17.43
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.02626
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

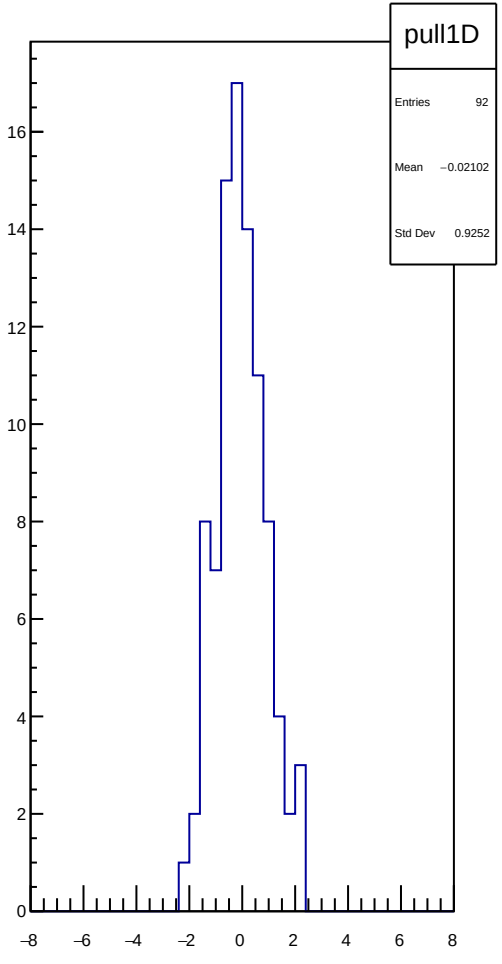

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 305.9 / 91
p0 1281 ± 0.9593
1400
1380
1360
1340
1320
1300
1280
1260
1240

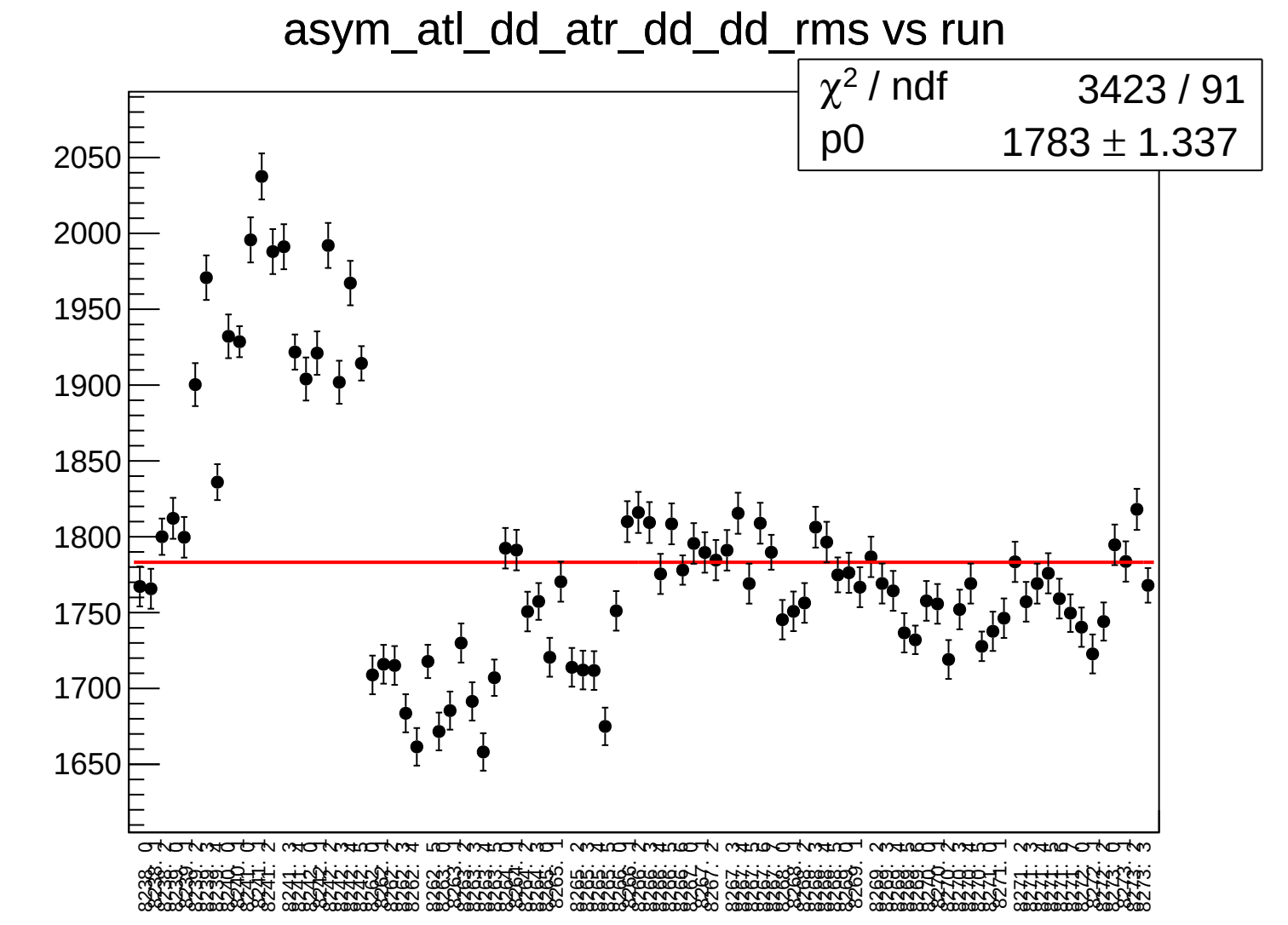

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 66.99 / 91
p0 4465 ± 1313
pull
Entries 92
Mean −1057
Std Dev 0

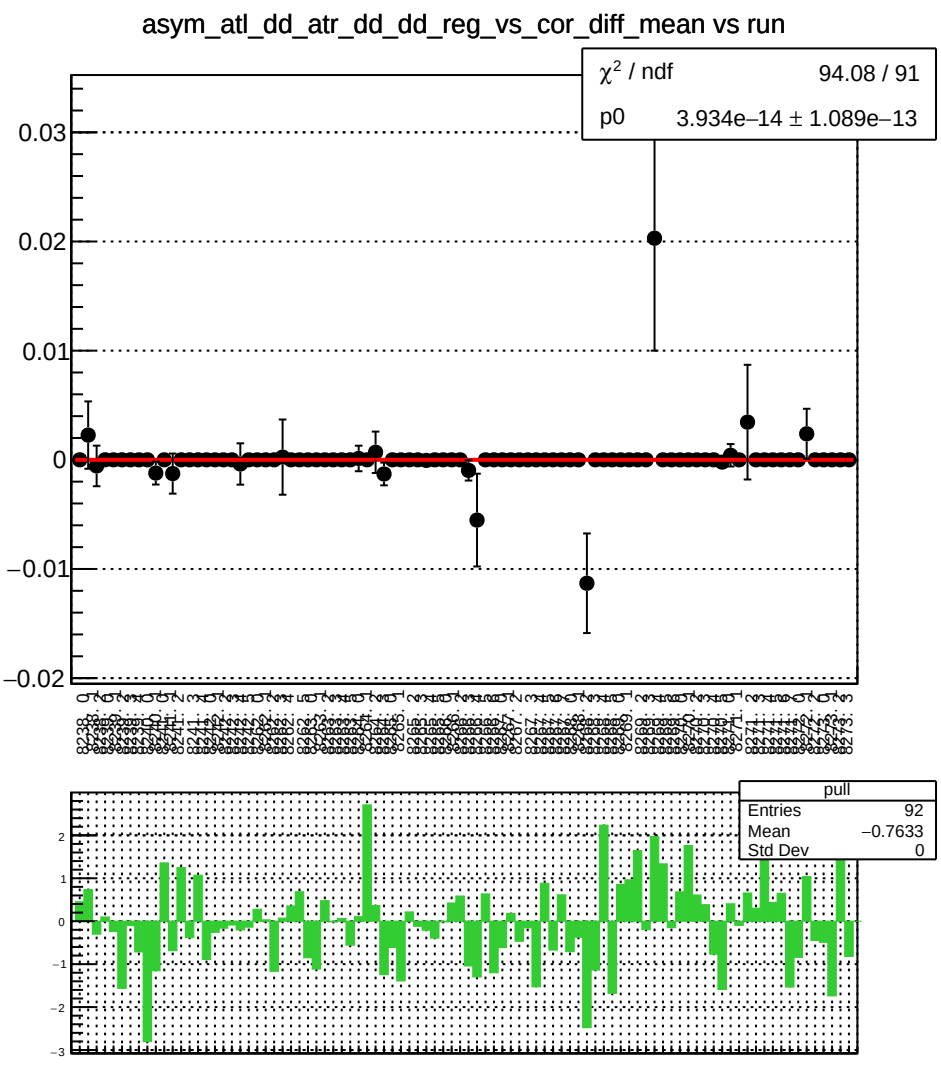

pull1D
Entries 92
Mean 0.005276
Std Dev 0.8533

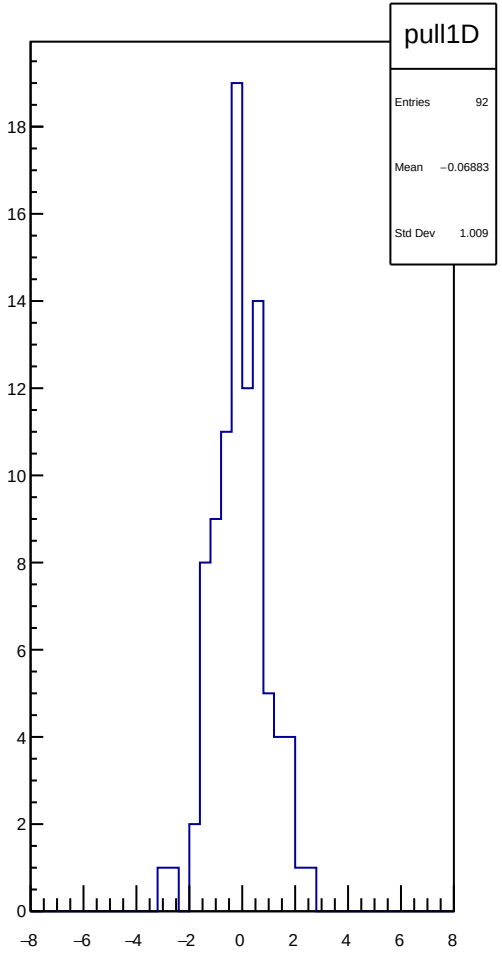

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.527e+04 / 91
p0 1234 ± 0.9281
1600
1500
1400
1300
1200
1100

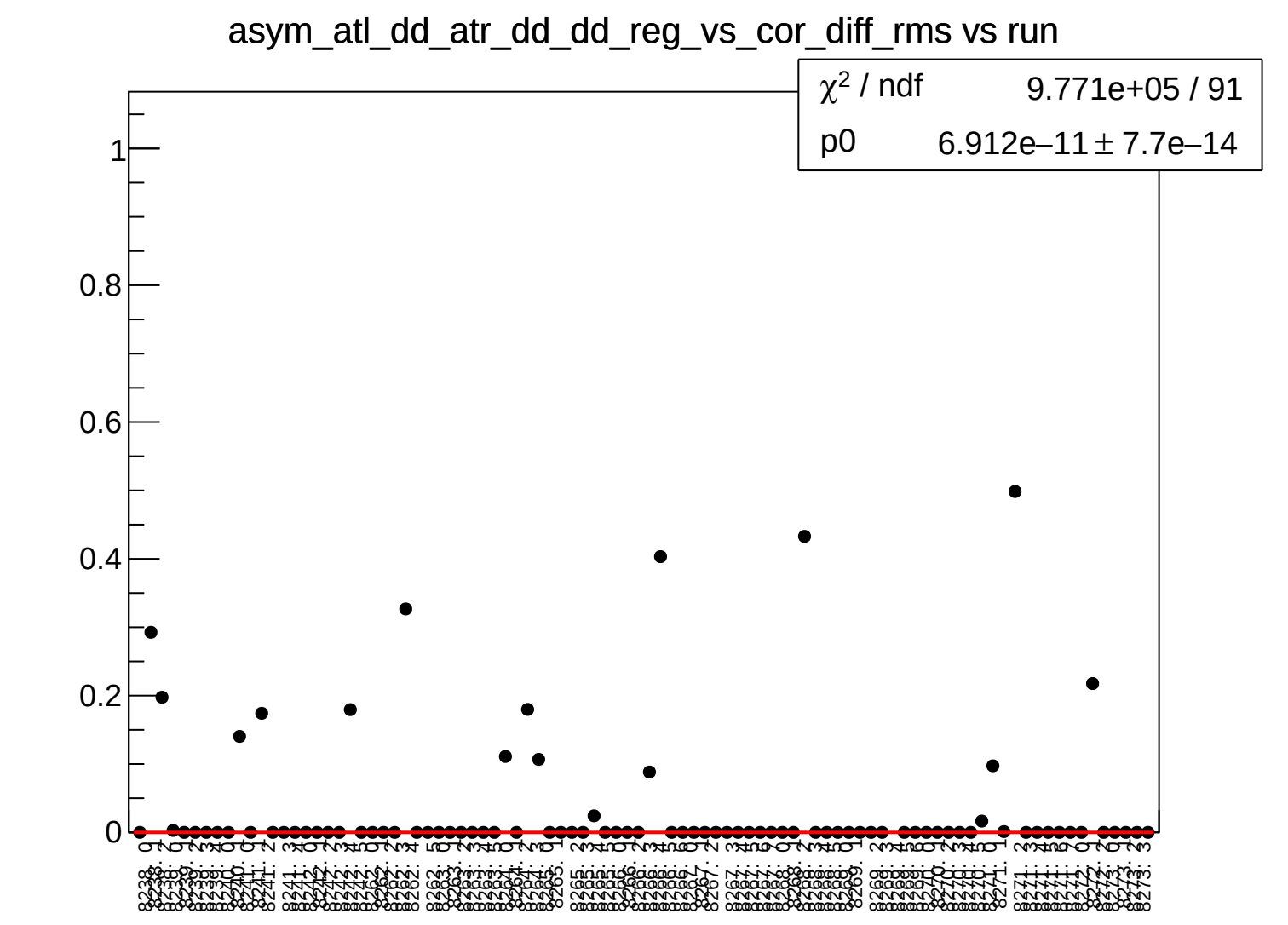

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 78.79 / 91
p0 −4069 ± 1890
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −109.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

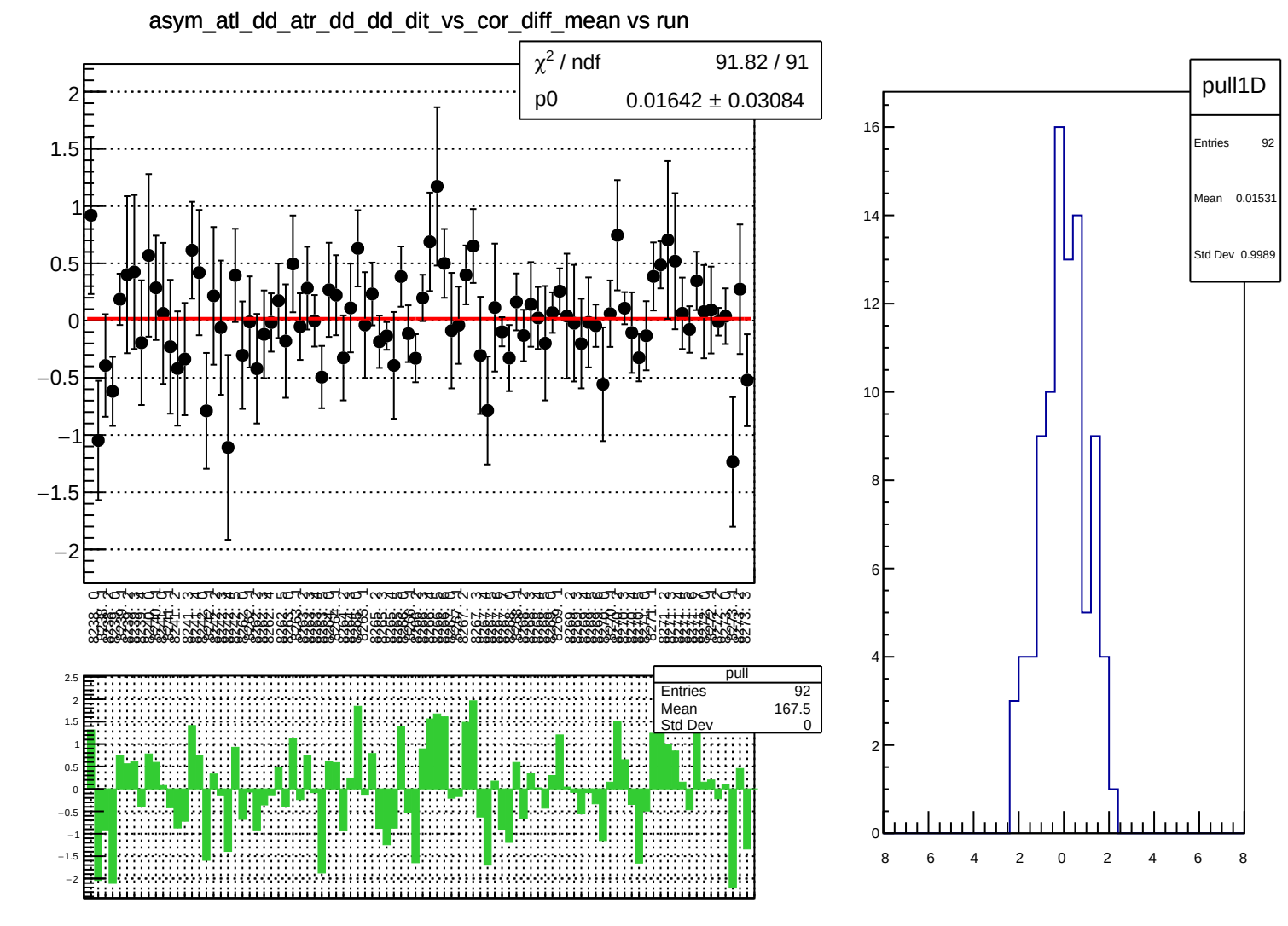

pull1D
Entries 92
Mean −0.02102
Std Dev 0.9252
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

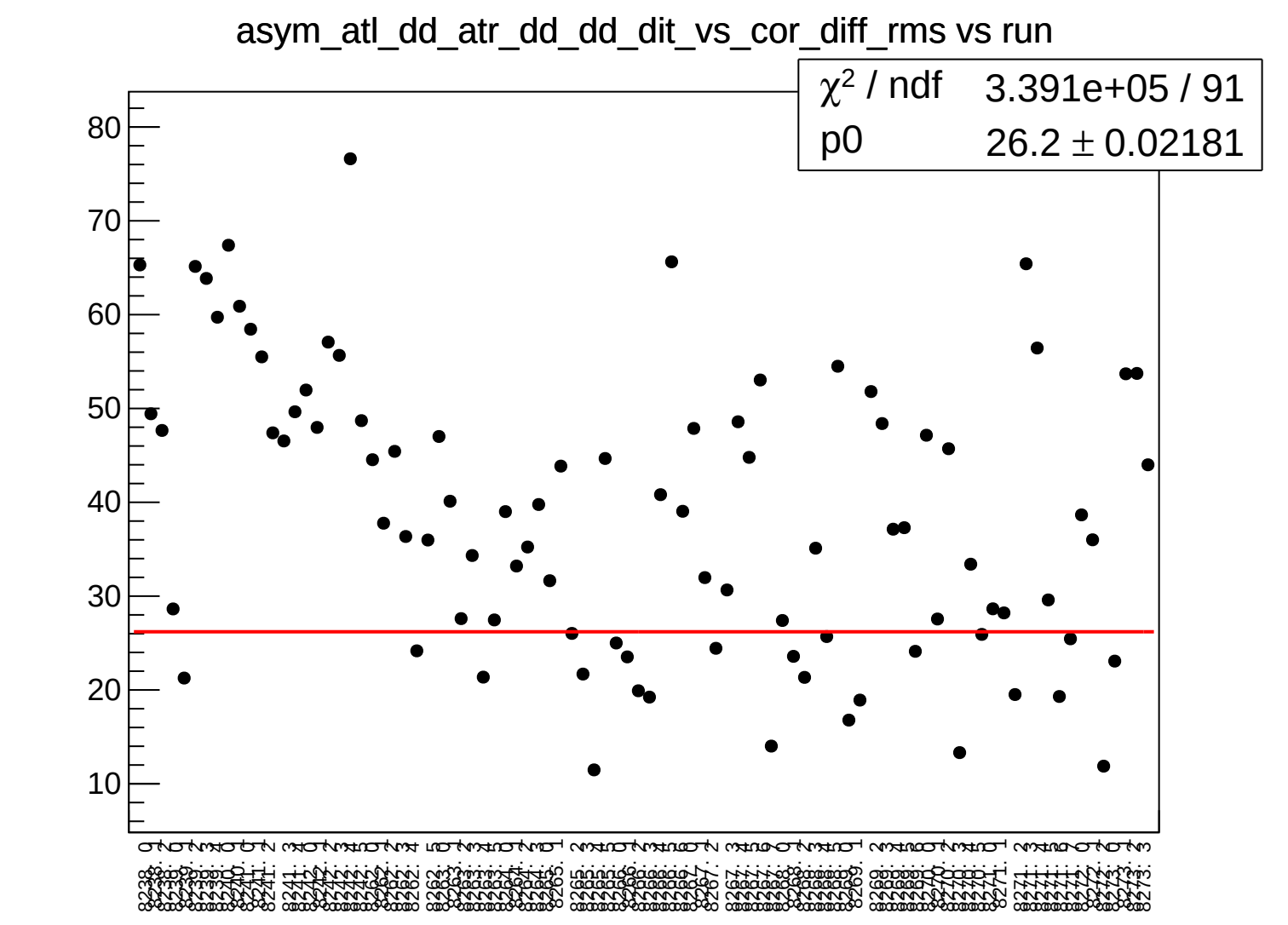

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 3423 / 91
p0 1783 ± 1.337
2050
2000
1950
1900
1850
1800
1750
1700
1650

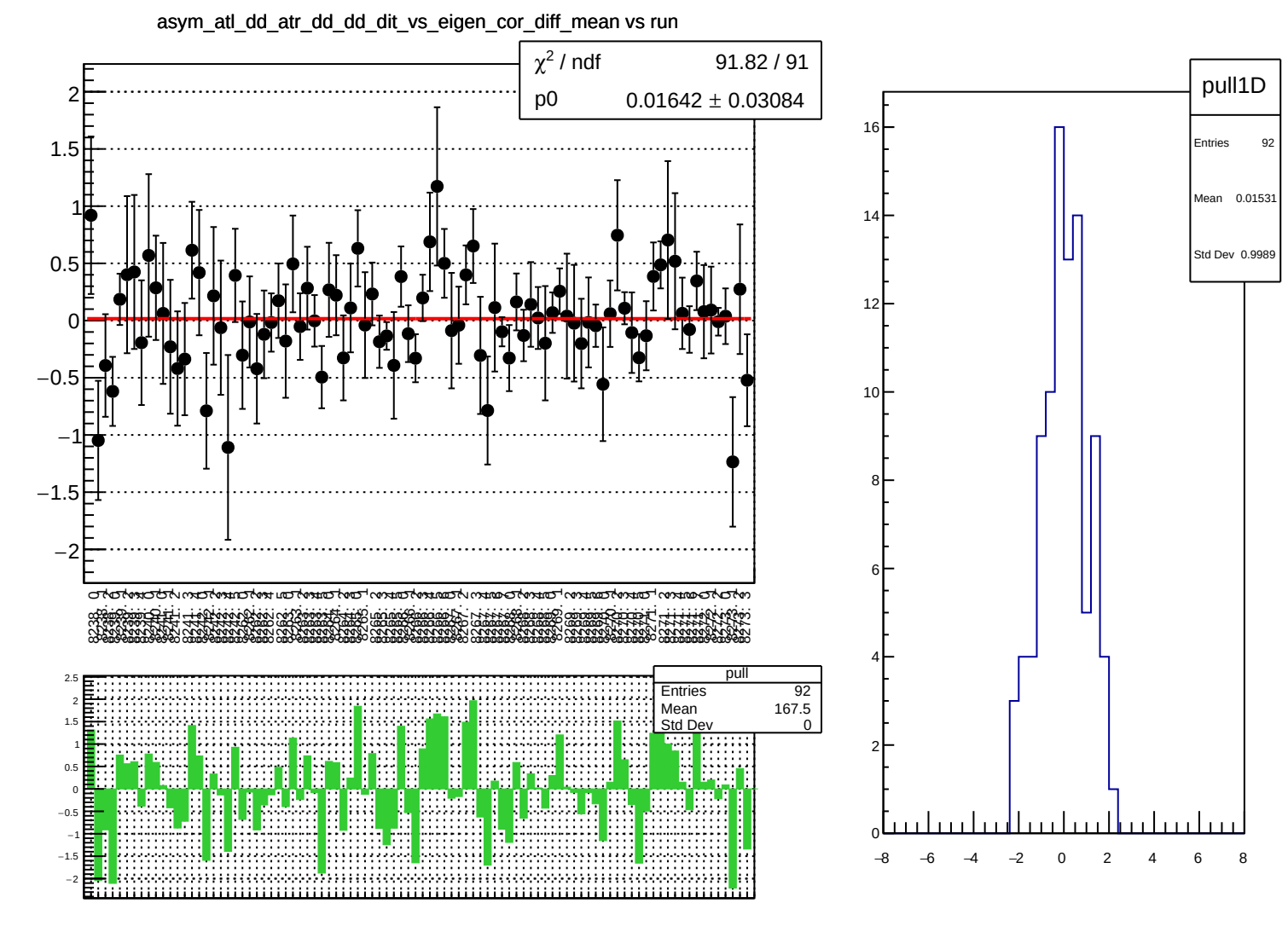

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.08 / 91
p0 3.934e−14 ± 1.089e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean −0.7633
Std Dev 0
2
1
0
−1
−2
−3

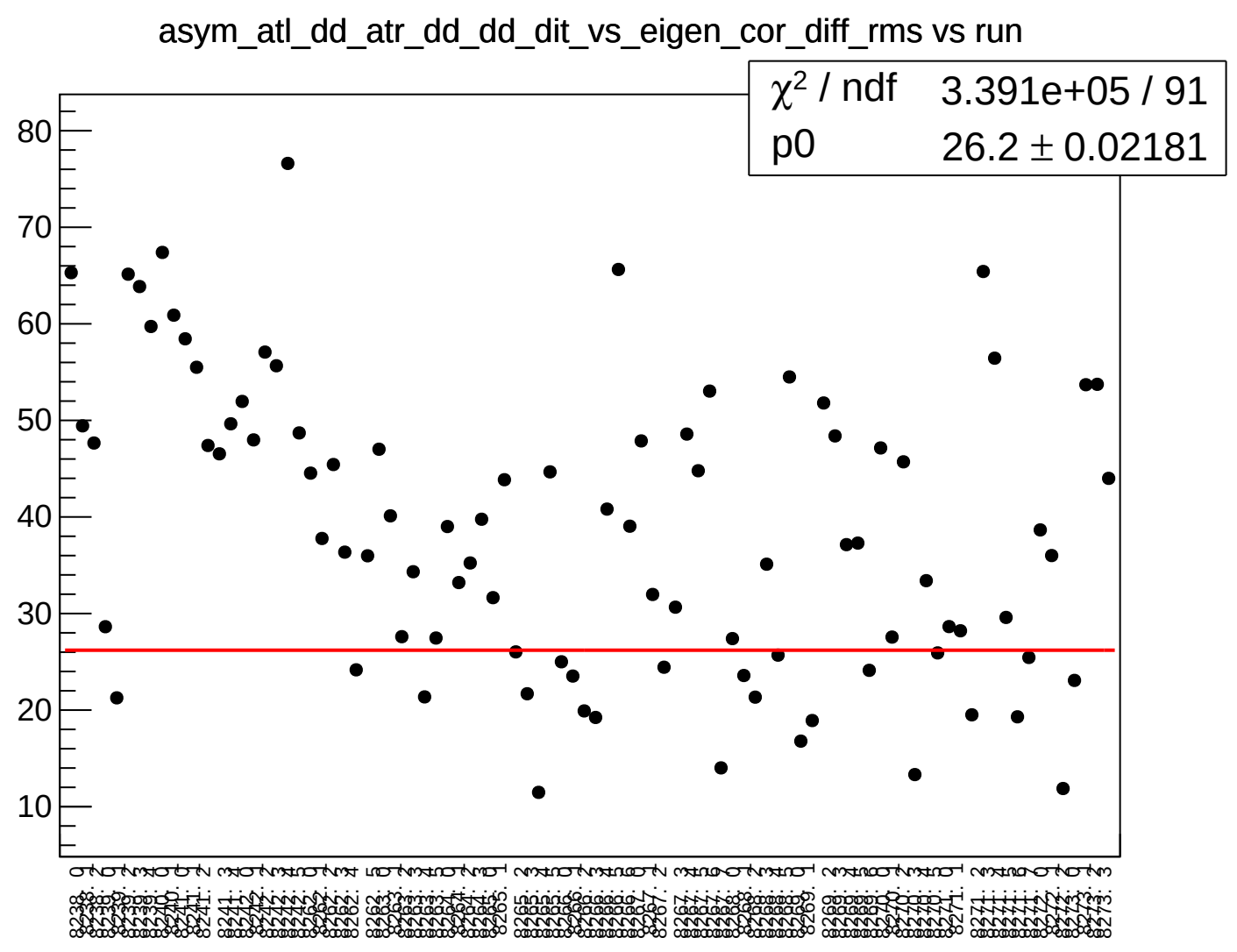

pull1D
Entries 92
Mean −0.06883
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

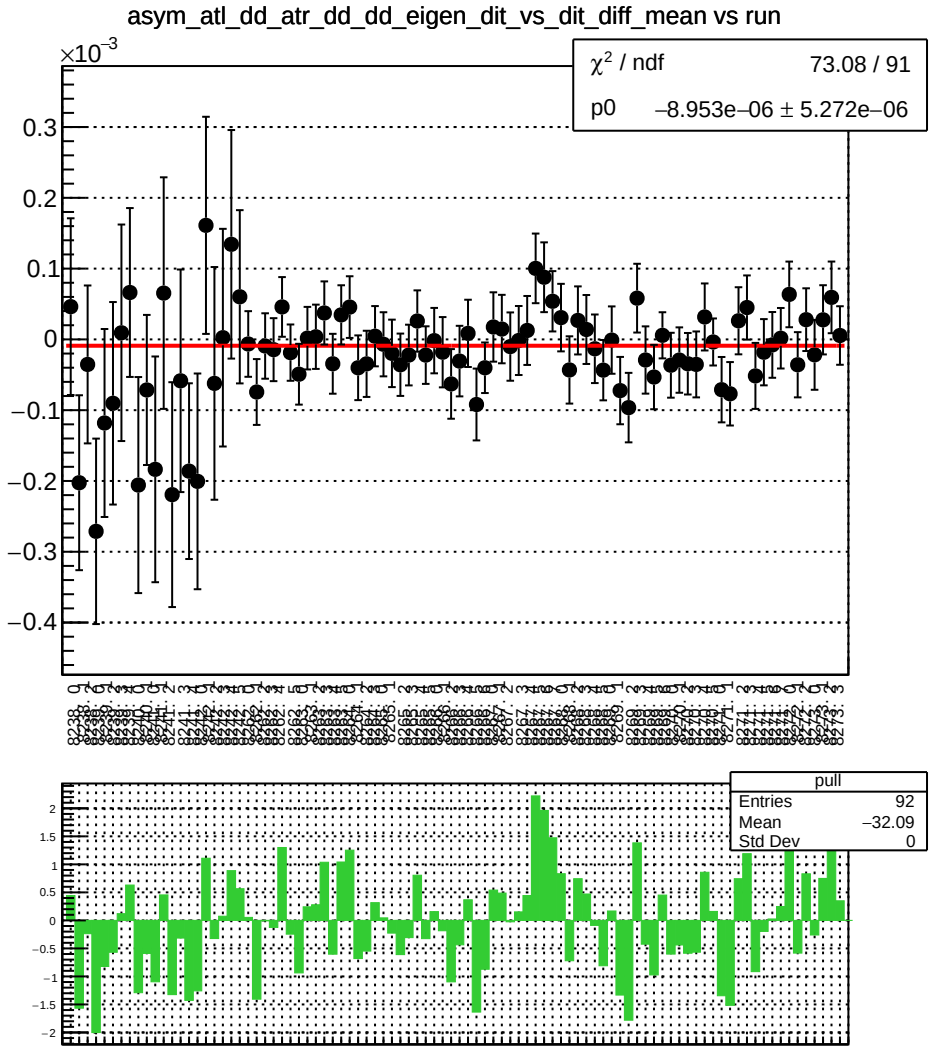

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.771e+05 / 91
p0 6.912e−11 ± 7.7e−14
1
0.8
0.6
0.4
0.2
0

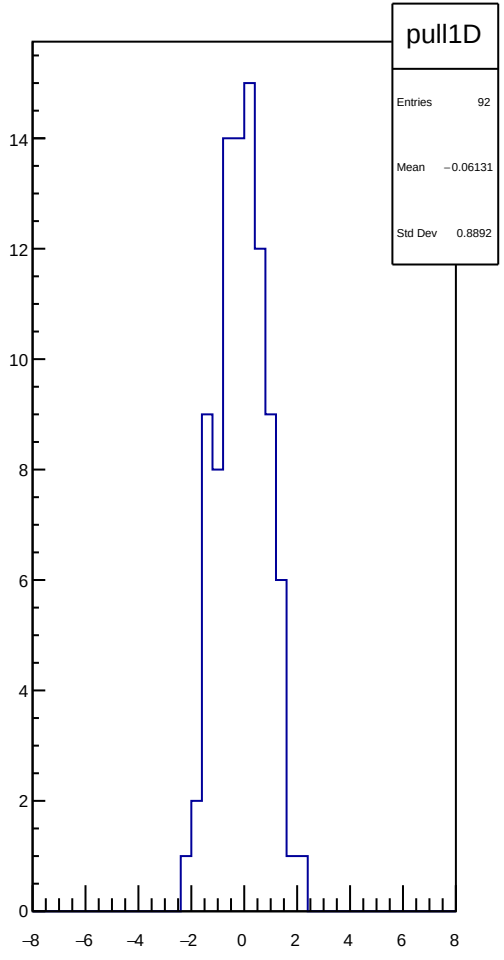

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.82 / 91
p0 0.01642 ± 0.03084
pull
Entries 92
Mean 167.5
Std Dev 0
pull1D
Entries 92
Mean 0.01531
Std Dev 0.9989

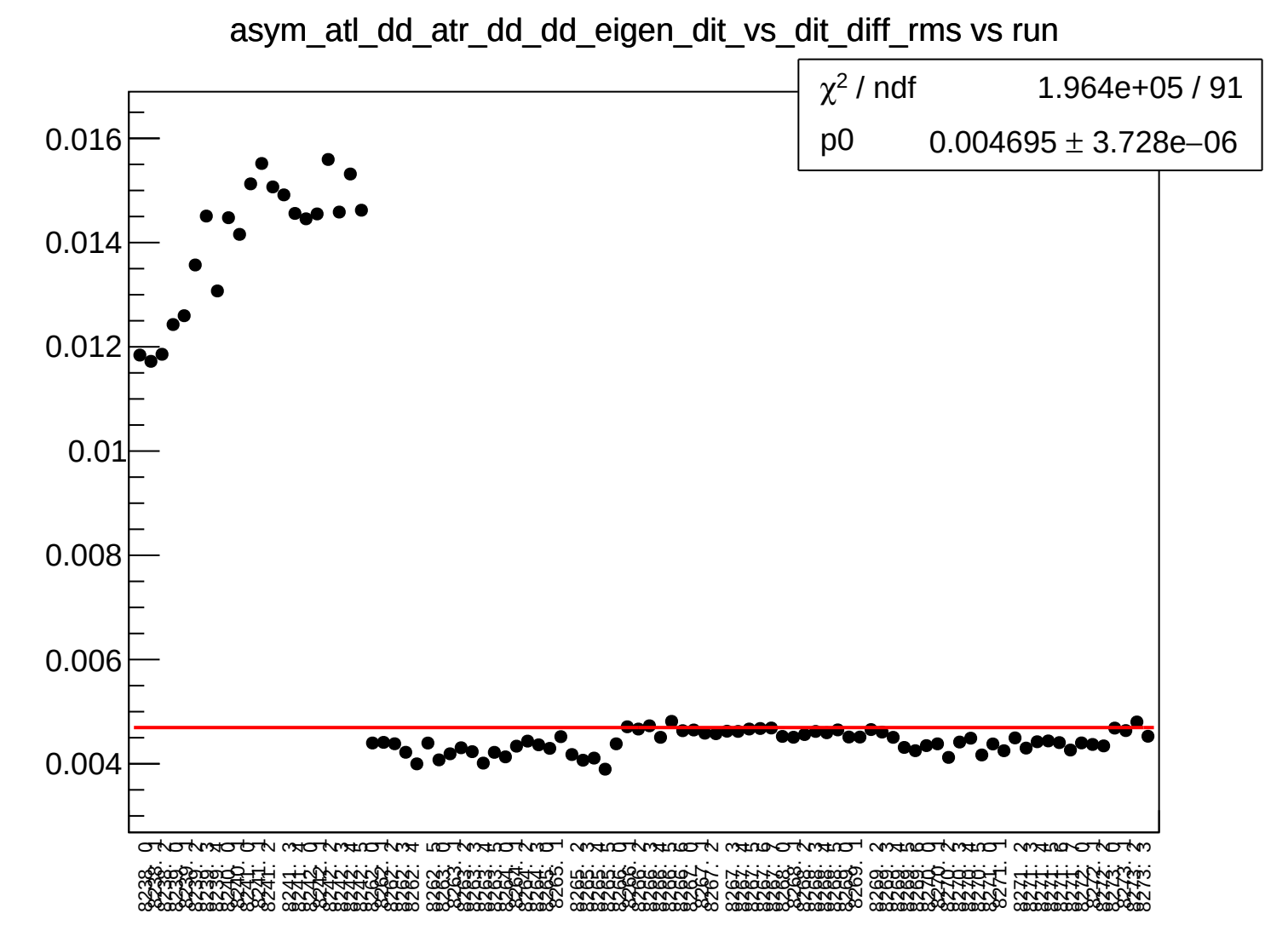

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.391e+05 / 91
p0 26.2 ± 0.02181
80
70
60
50
40
30
20
10

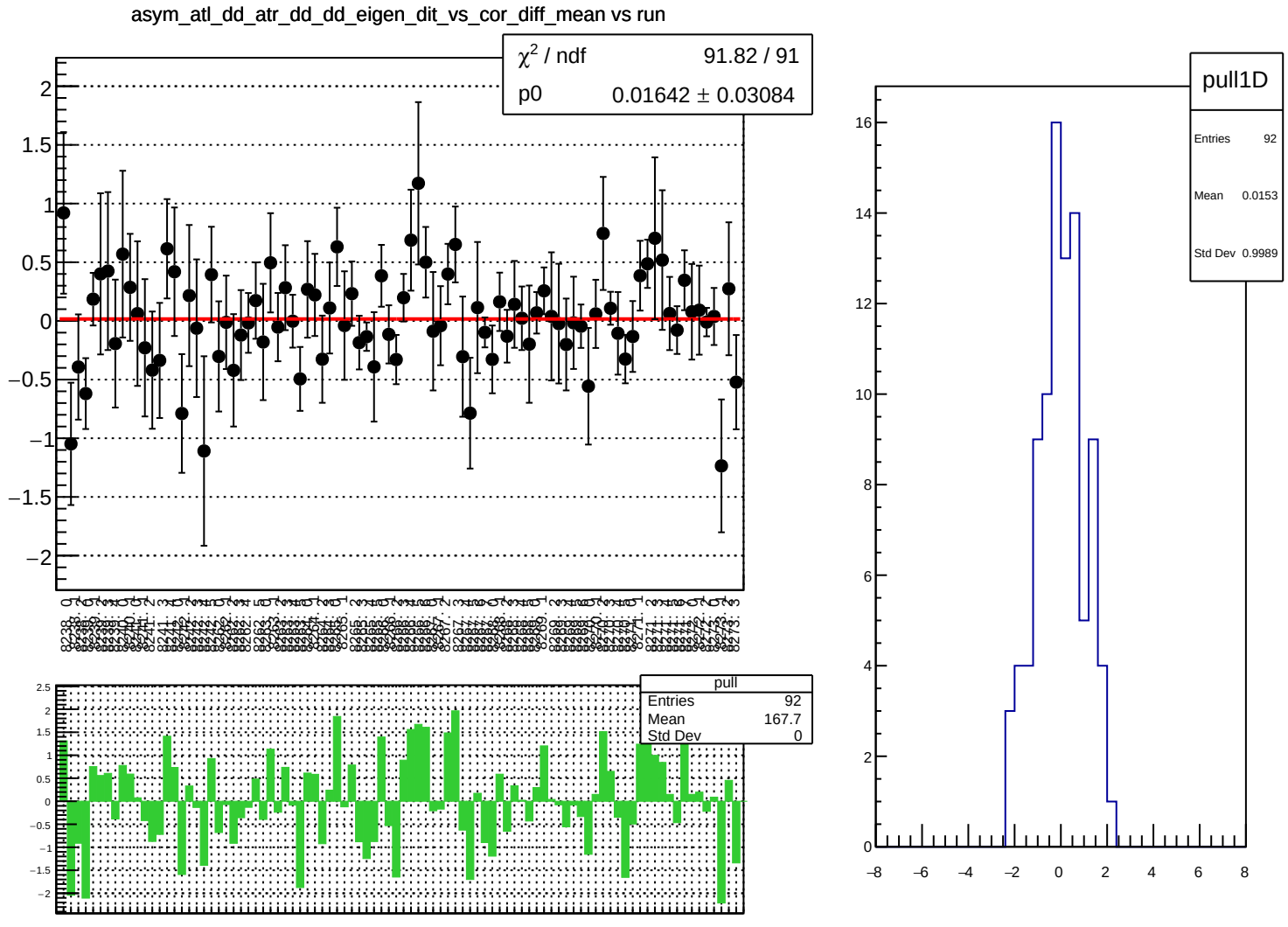

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.82 / 91
p0 0.01642 ± 0.03084
pull
Entries 92
Mean 167.5
Std Dev 0
pull1D
Entries 92
Mean 0.01531
Std Dev 0.9989

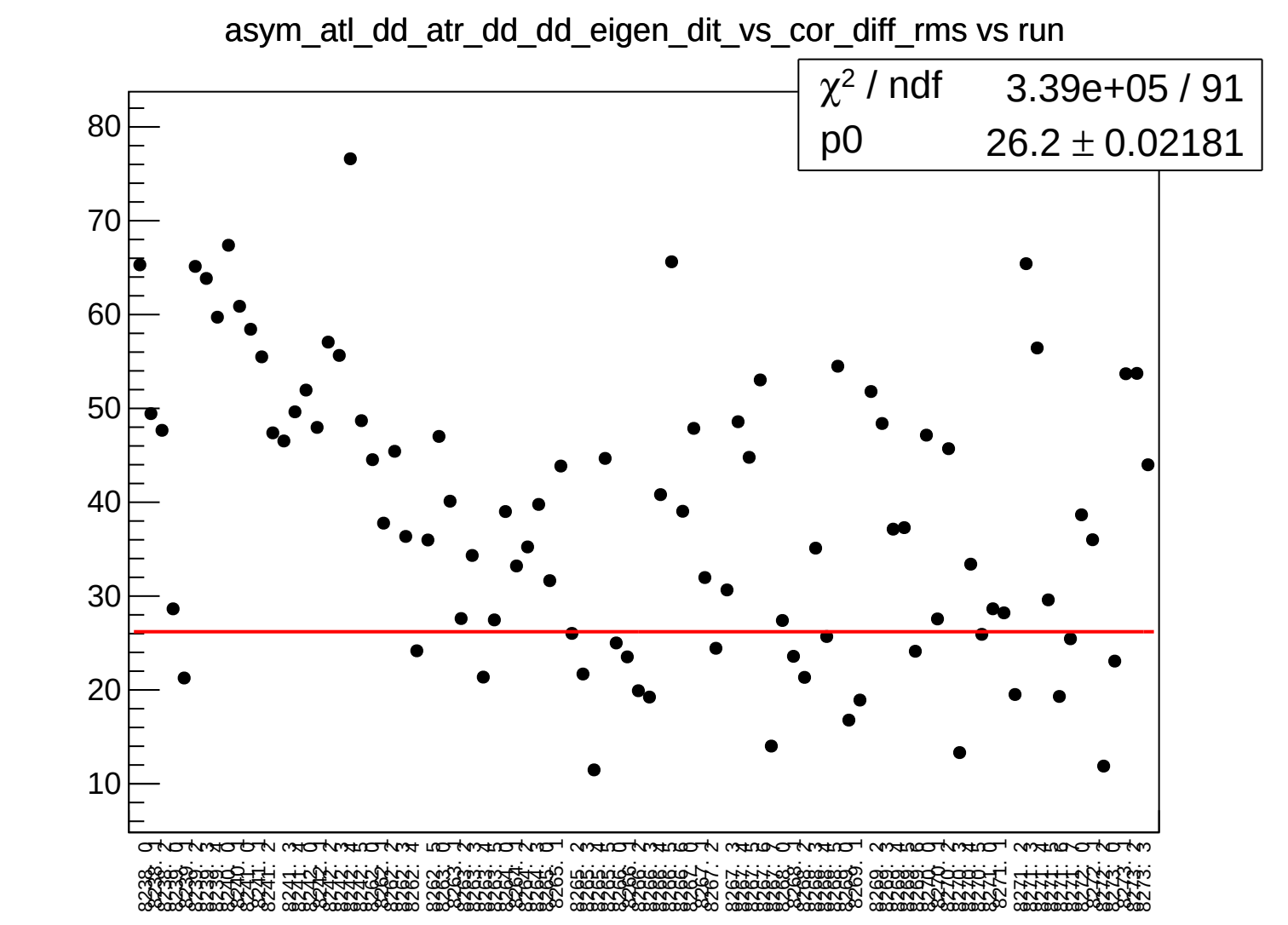

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.391e+05 / 91
p0 26.2 ± 0.02181
80
70
60
50
40
30
20
10

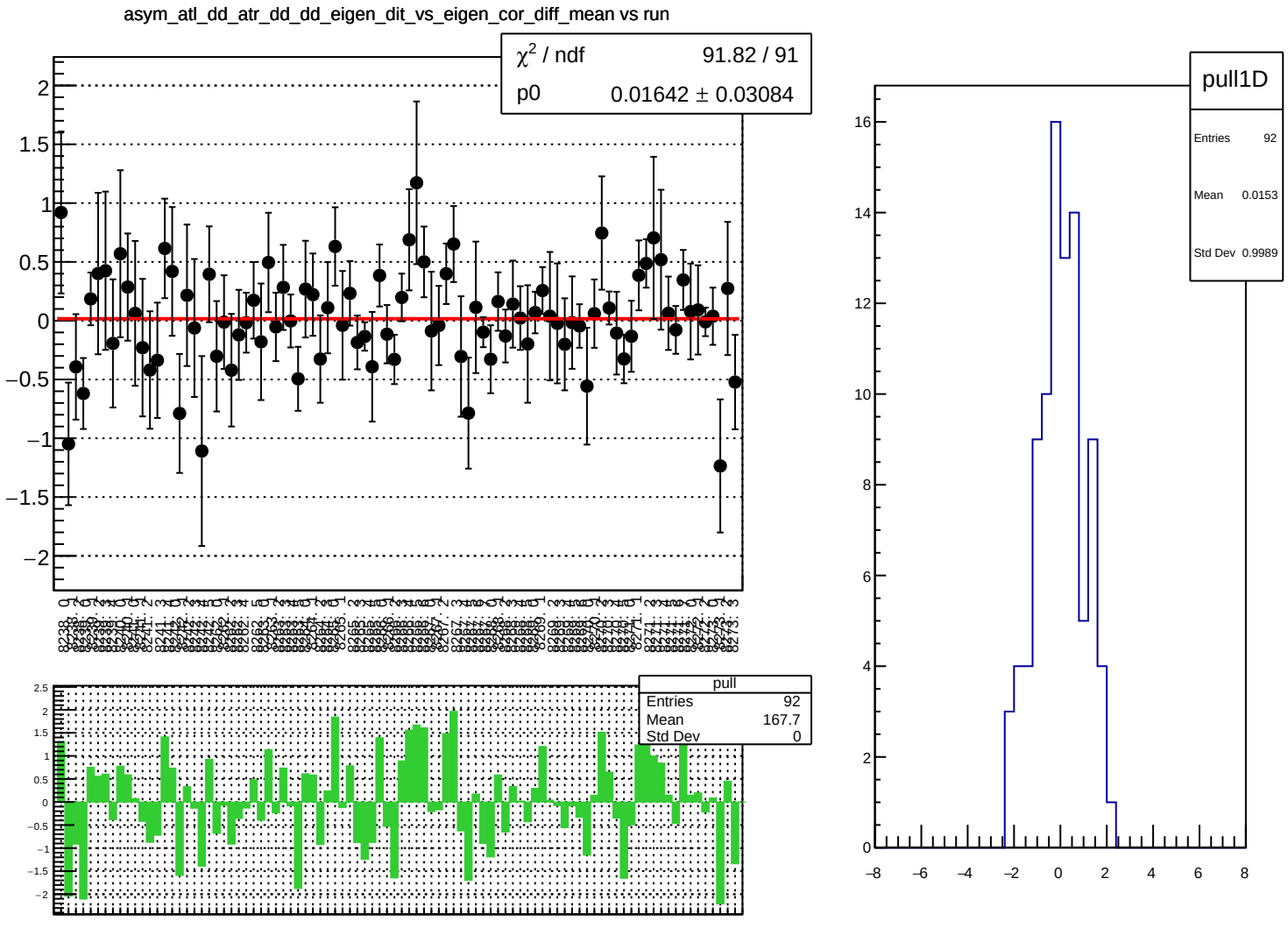

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.08 / 91
p0 −8.953e−06 ± 5.272e−06
pull
Entries 92
Mean −32.09
Std Dev 0

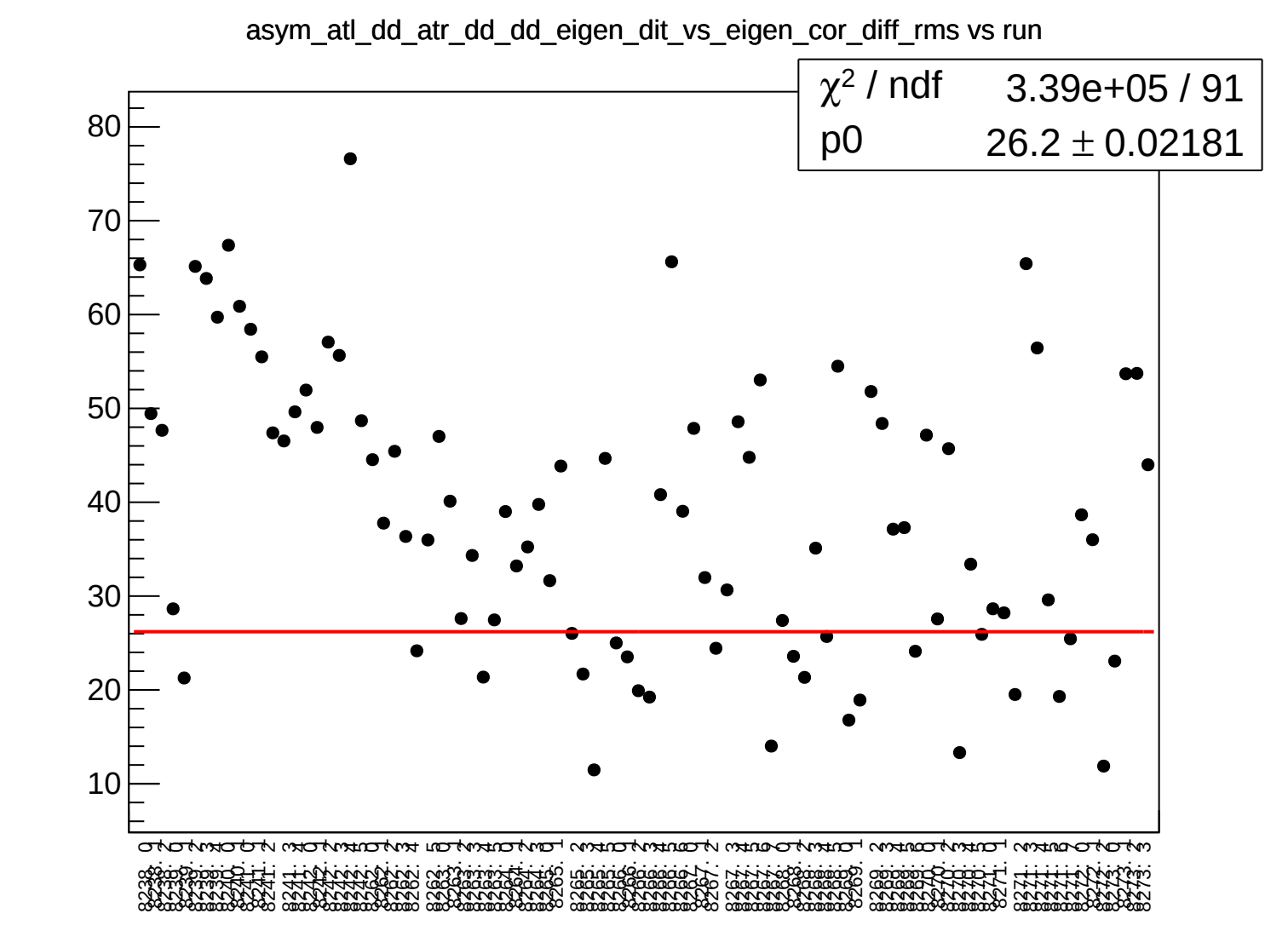

pull1D
Entries 92
Mean −0.06131
Std Dev 0.8892

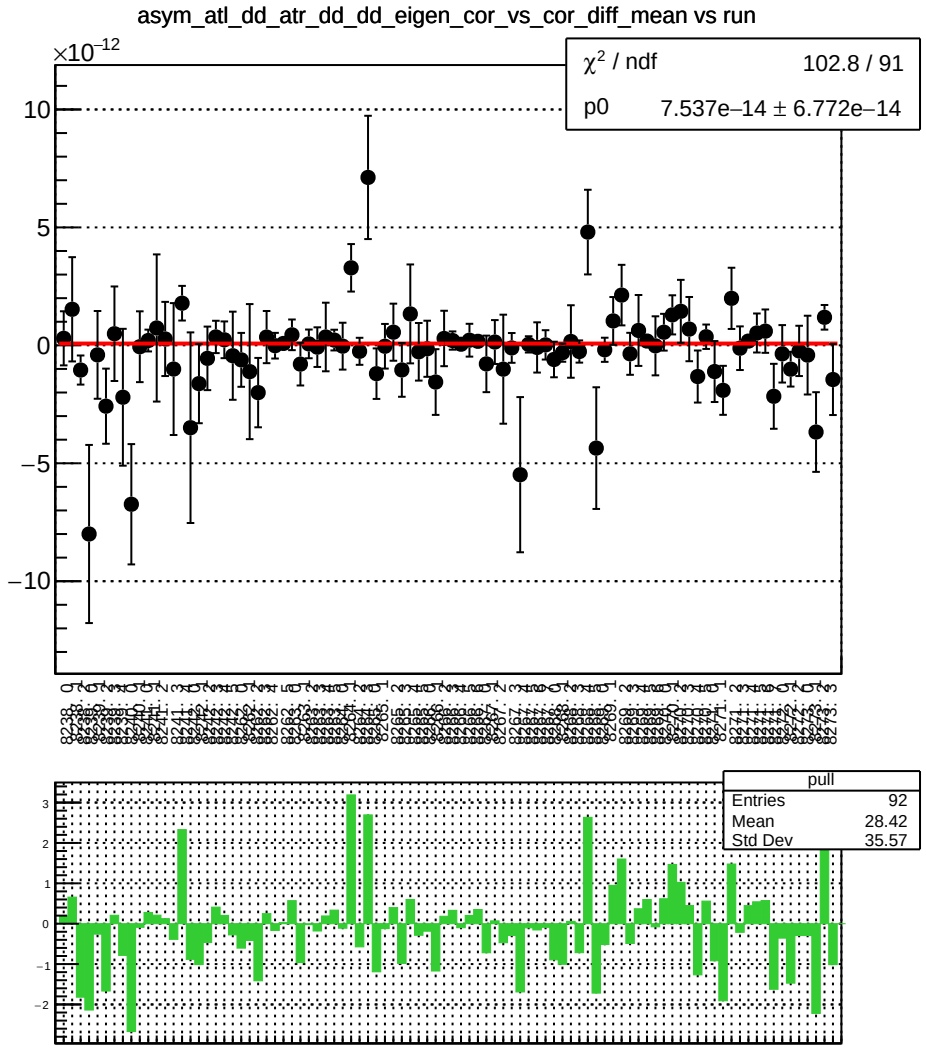

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.964e+05 / 91
p0 0.004695 ± 3.728e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

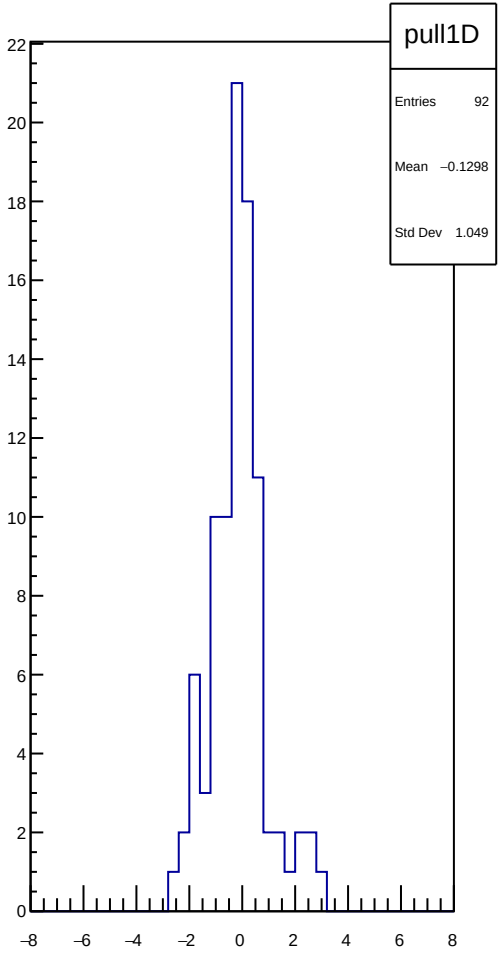

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.82 / 91
p0 0.01642 ± 0.03084
pull
Entries 92
Mean 167.7
Std Dev 0
pull1D
Entries 92
Mean 0.0153
Std Dev 0.9989

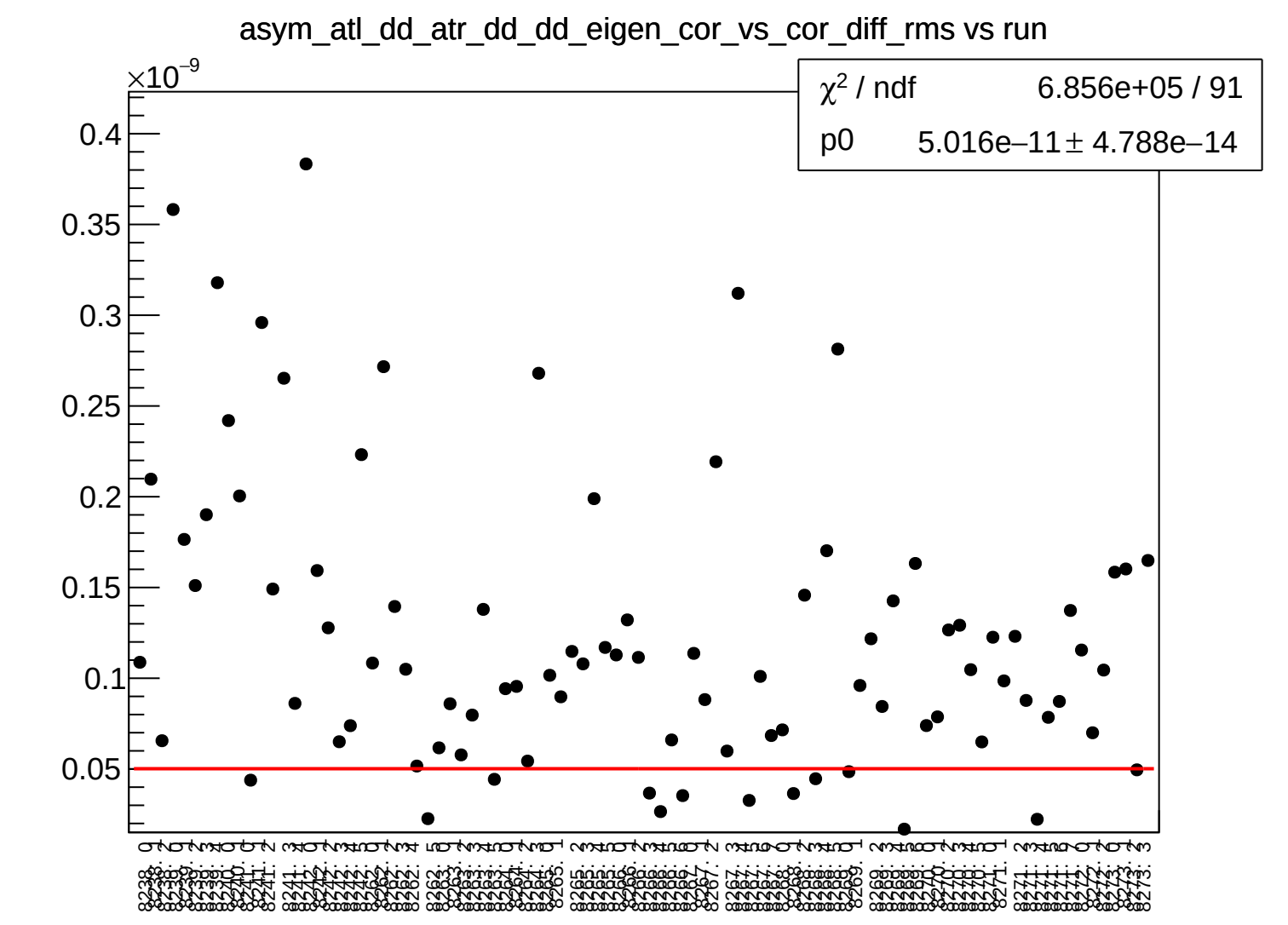

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.39e+05 / 91
p0 26.2 ± 0.02181
80
70
60
50
40
30
20
10

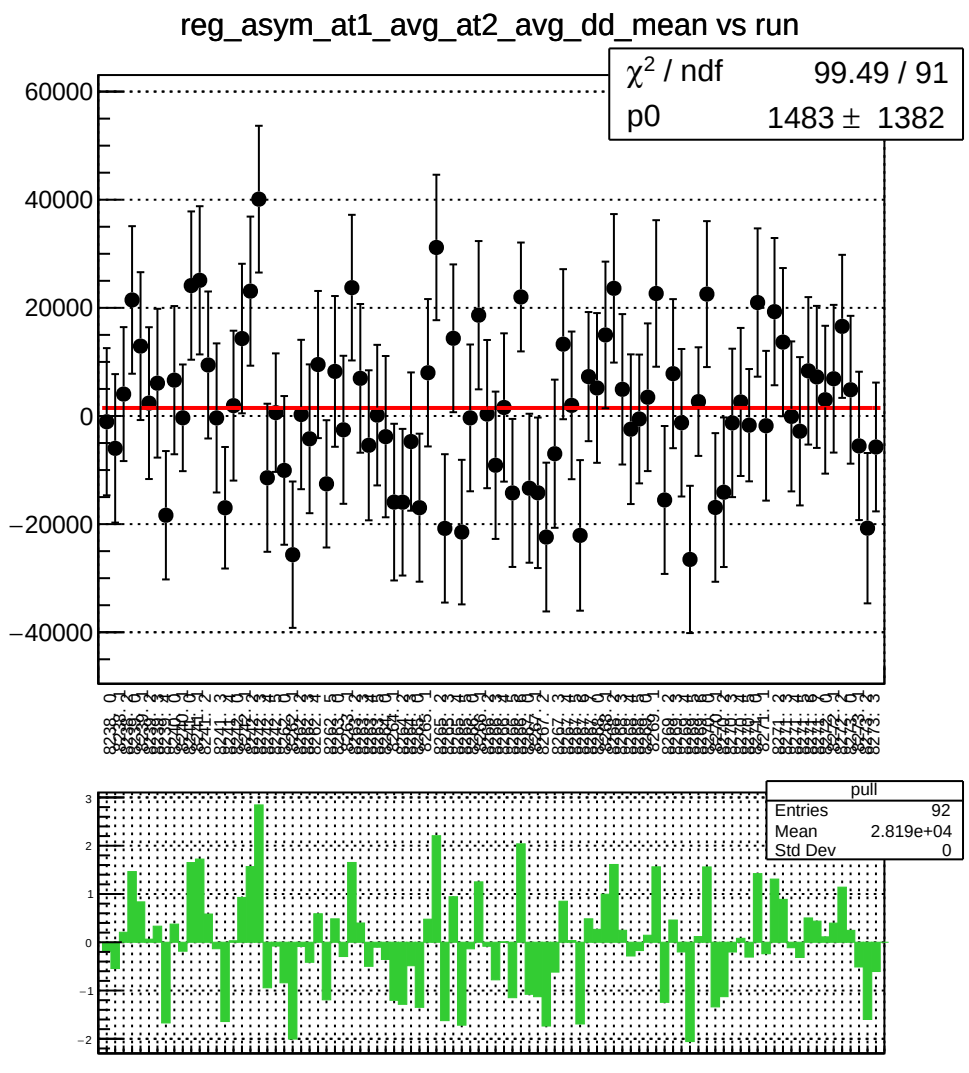

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.82 / 91
p0 0.01642 ± 0.03084
pull
Entries 92
Mean 167.7
Std Dev 0
pull1D
Entries 92
Mean 0.0153
Std Dev 0.9989

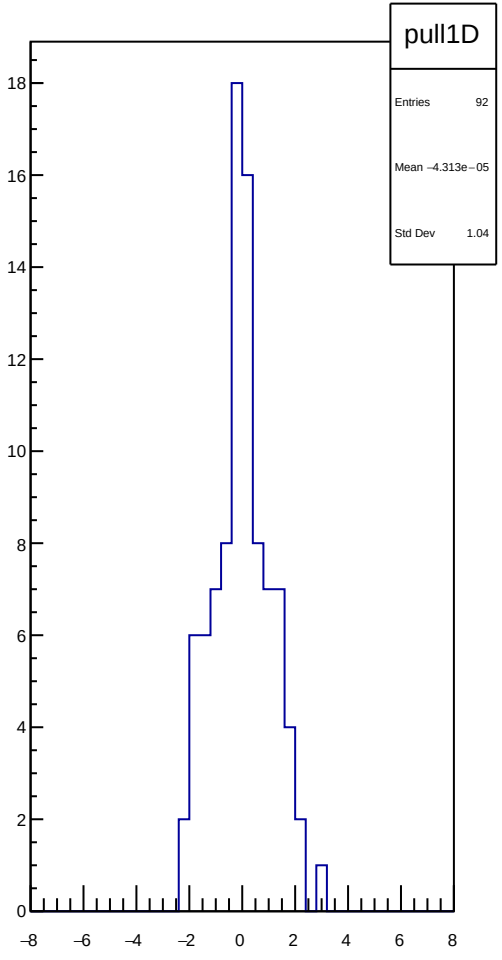

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.39e+05 / 91
p0 26.2 ± 0.02181
80
70
60
50
40
30
20
10

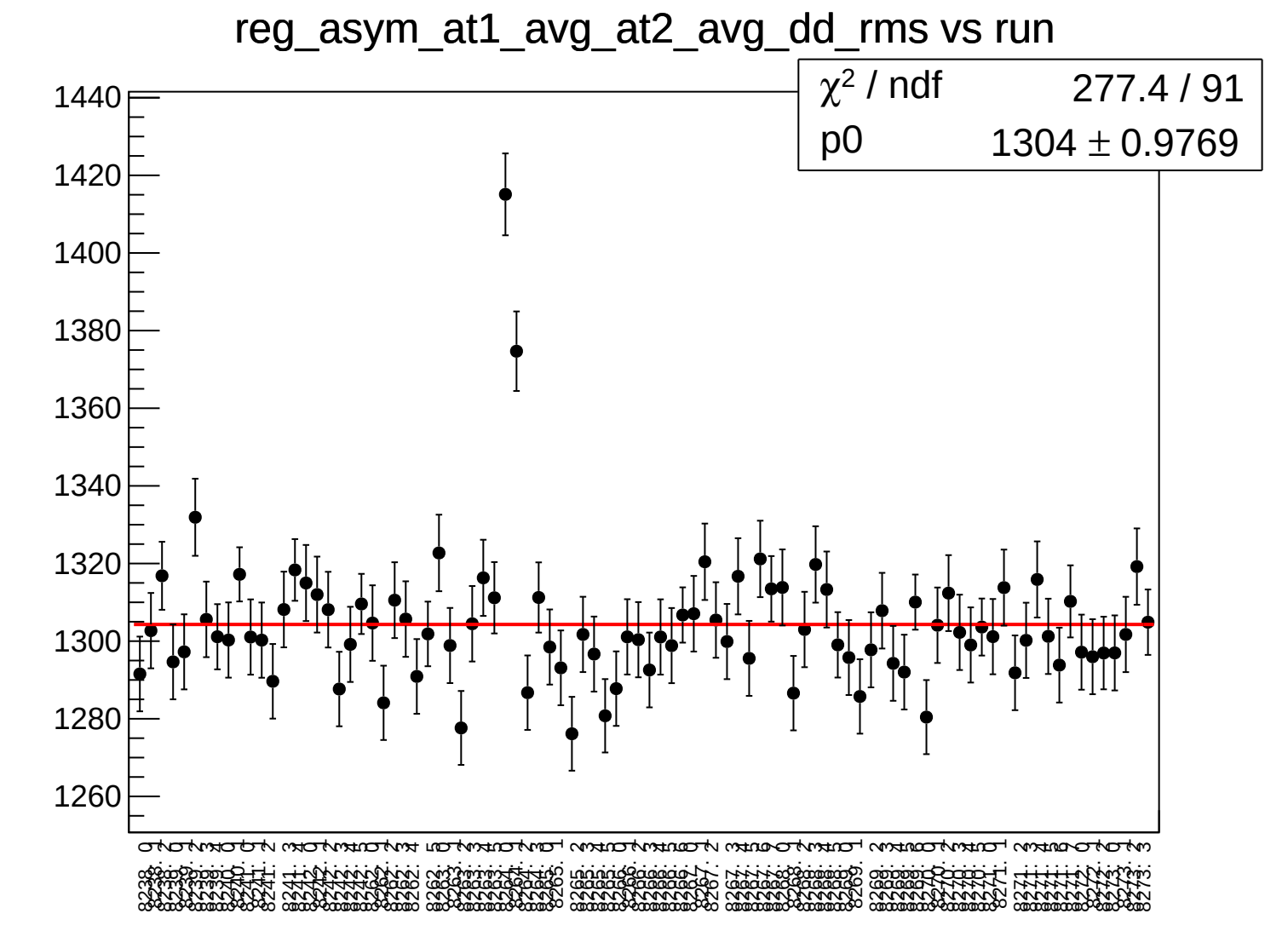

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.8 / 91
p0 7.537e−14 ± 6.772e−14
10
5
0
−5
−10
pull
Entries 92
Mean 28.42
Std Dev 35.57
3
2
1
0
−1
−2

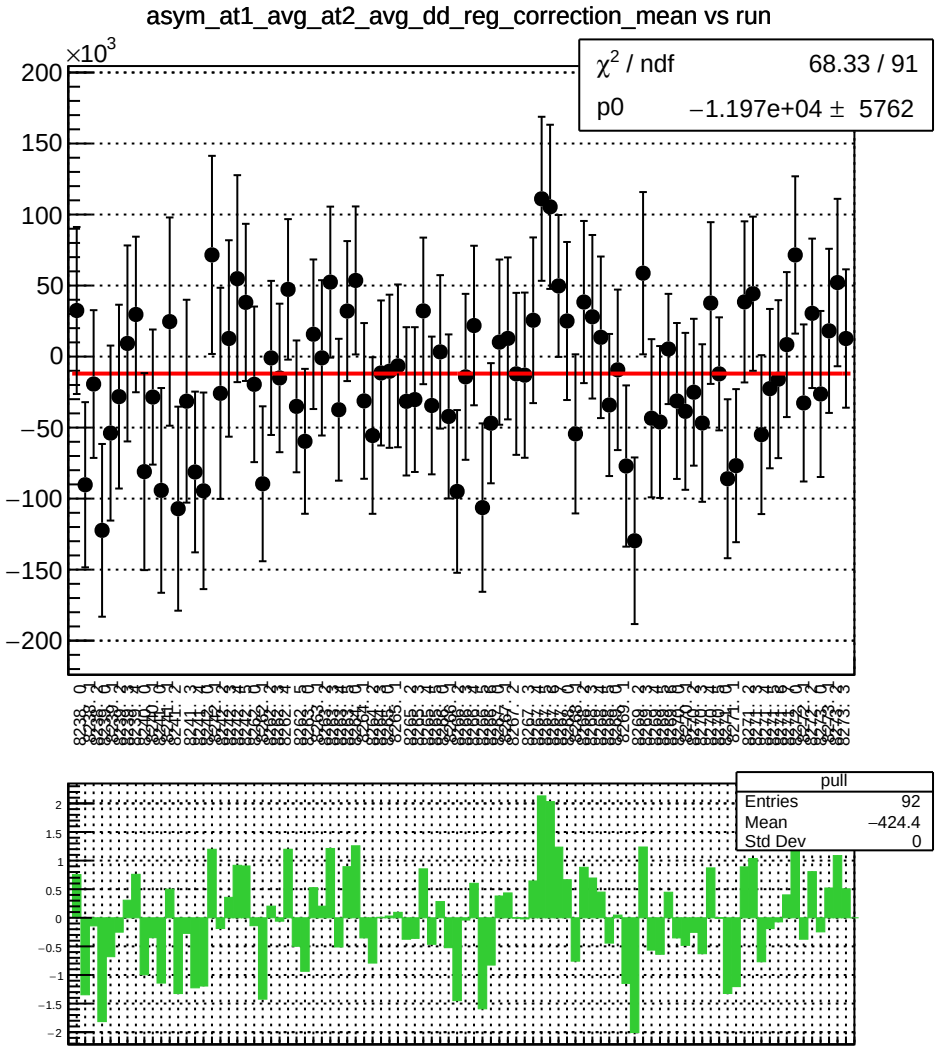

pull1D
Entries 92
Mean −0.1298
Std Dev 1.049
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

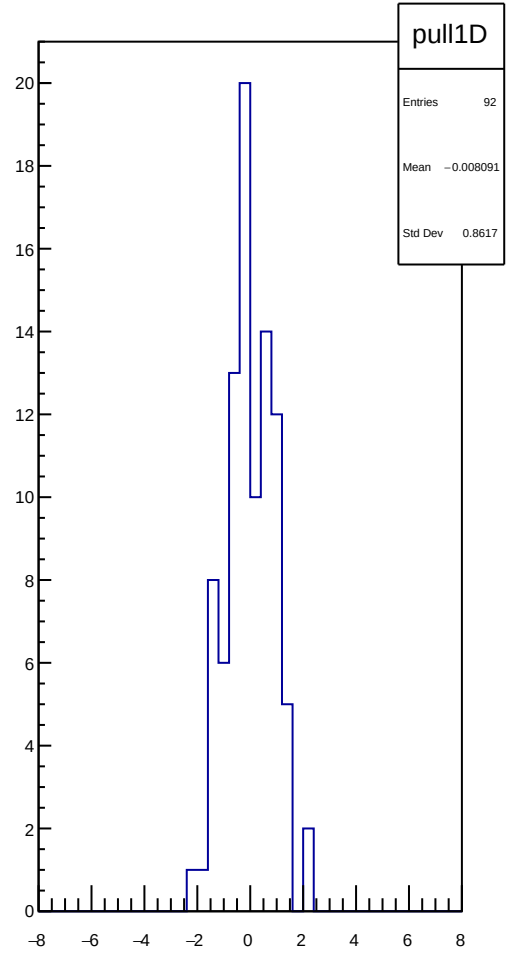

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.856e+05 / 91
p0 5.016e−11 ± 4.788e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

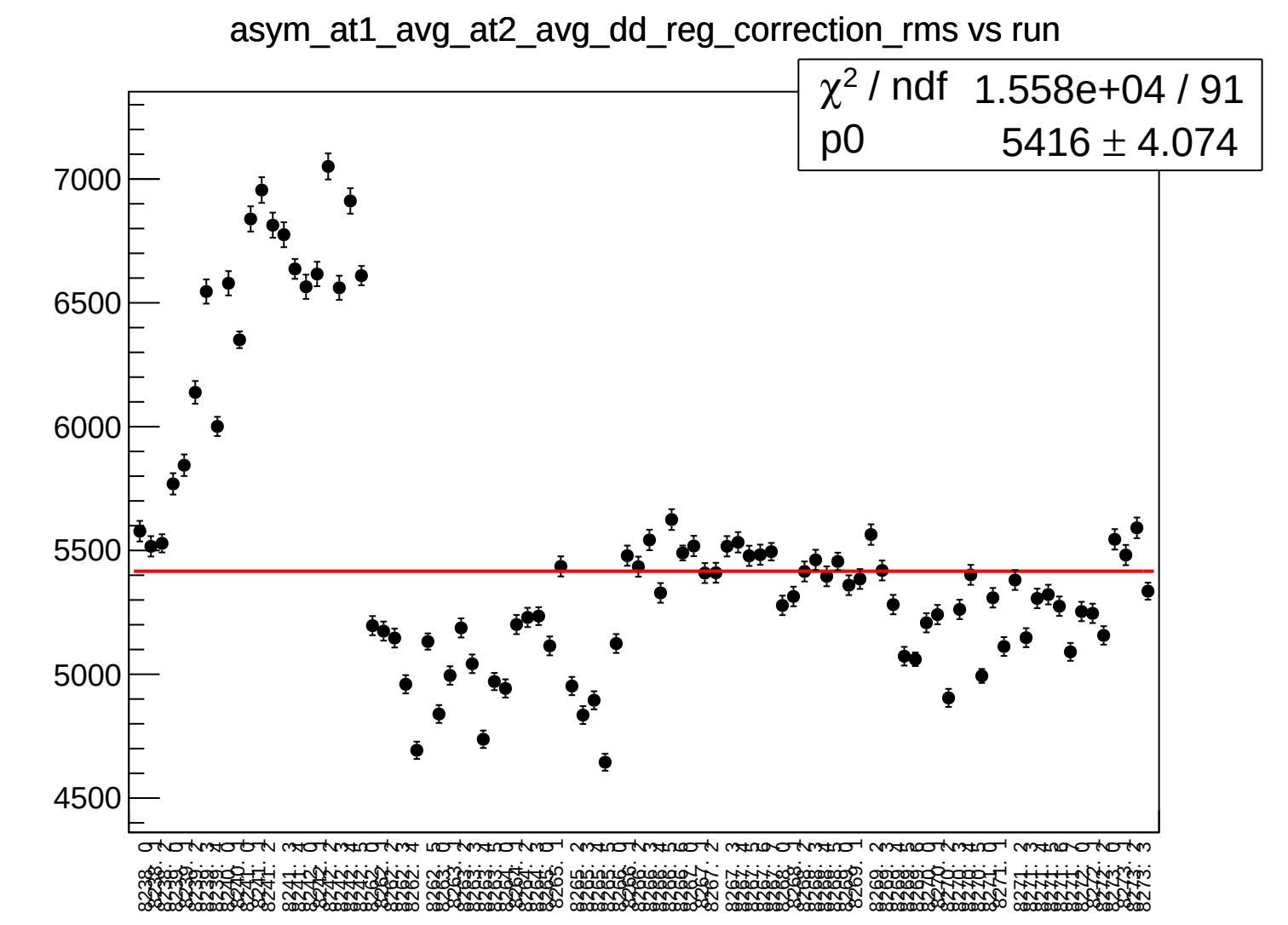

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 99.49 / 91
p0 1483 ± 1382
pull
Entries 92
Mean 2.819e+04
Std Dev 0

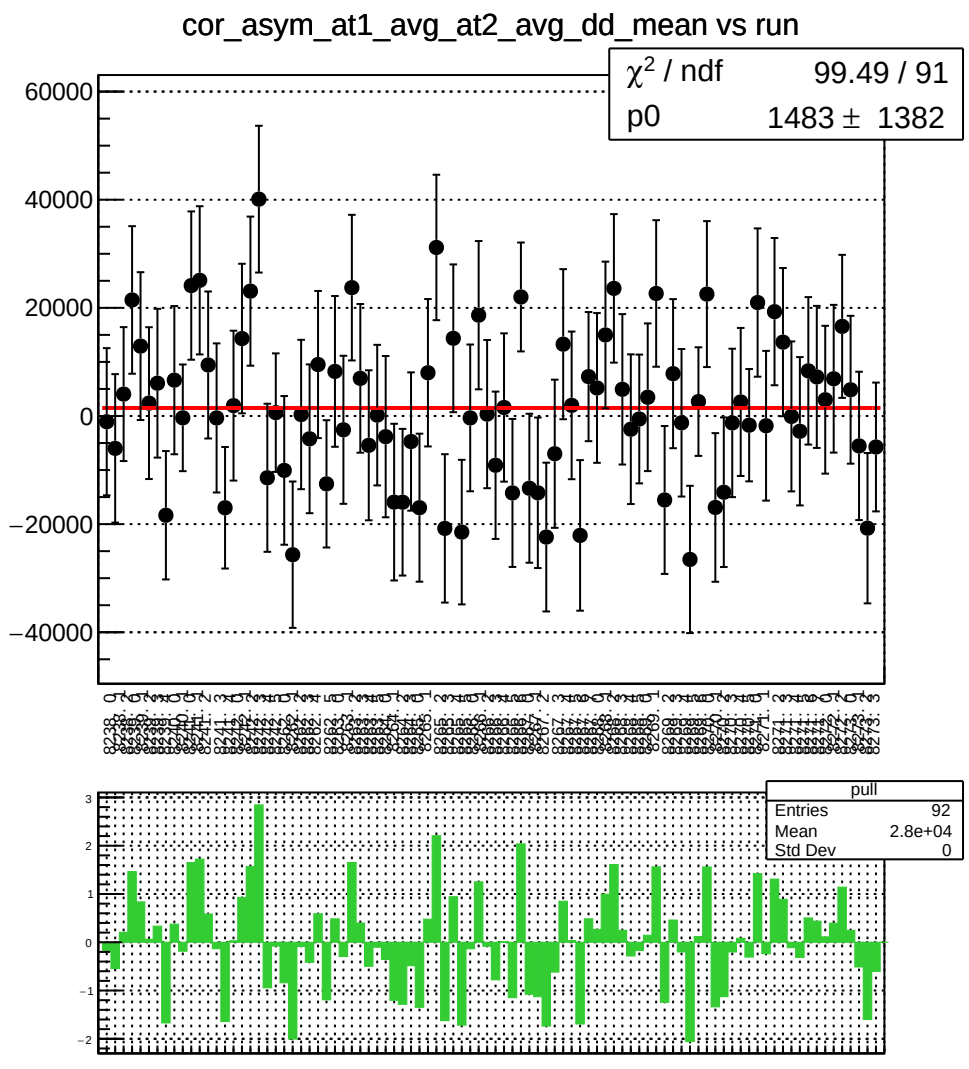

pull1D
Entries 92
Mean −4.313e−05
Std Dev 1.04

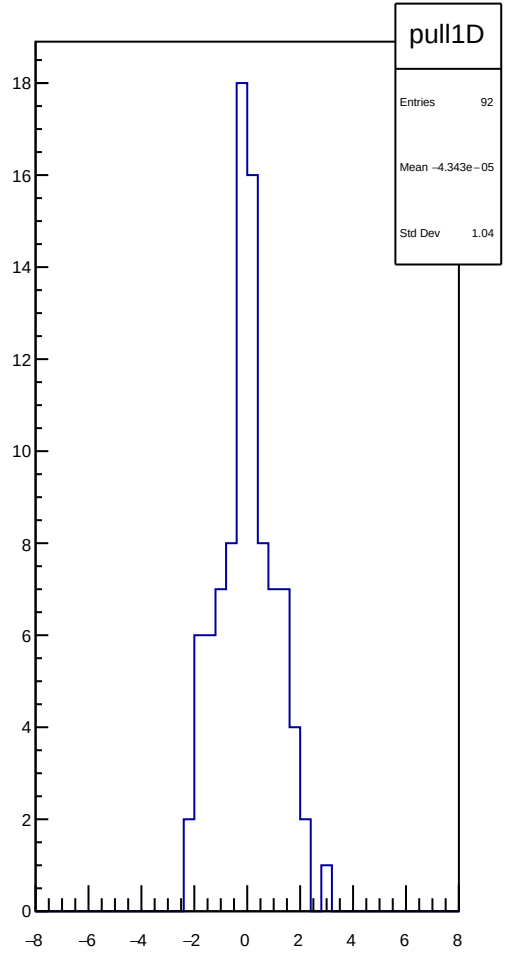

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 277.4 / 91
p0 1304 ± 0.9769
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

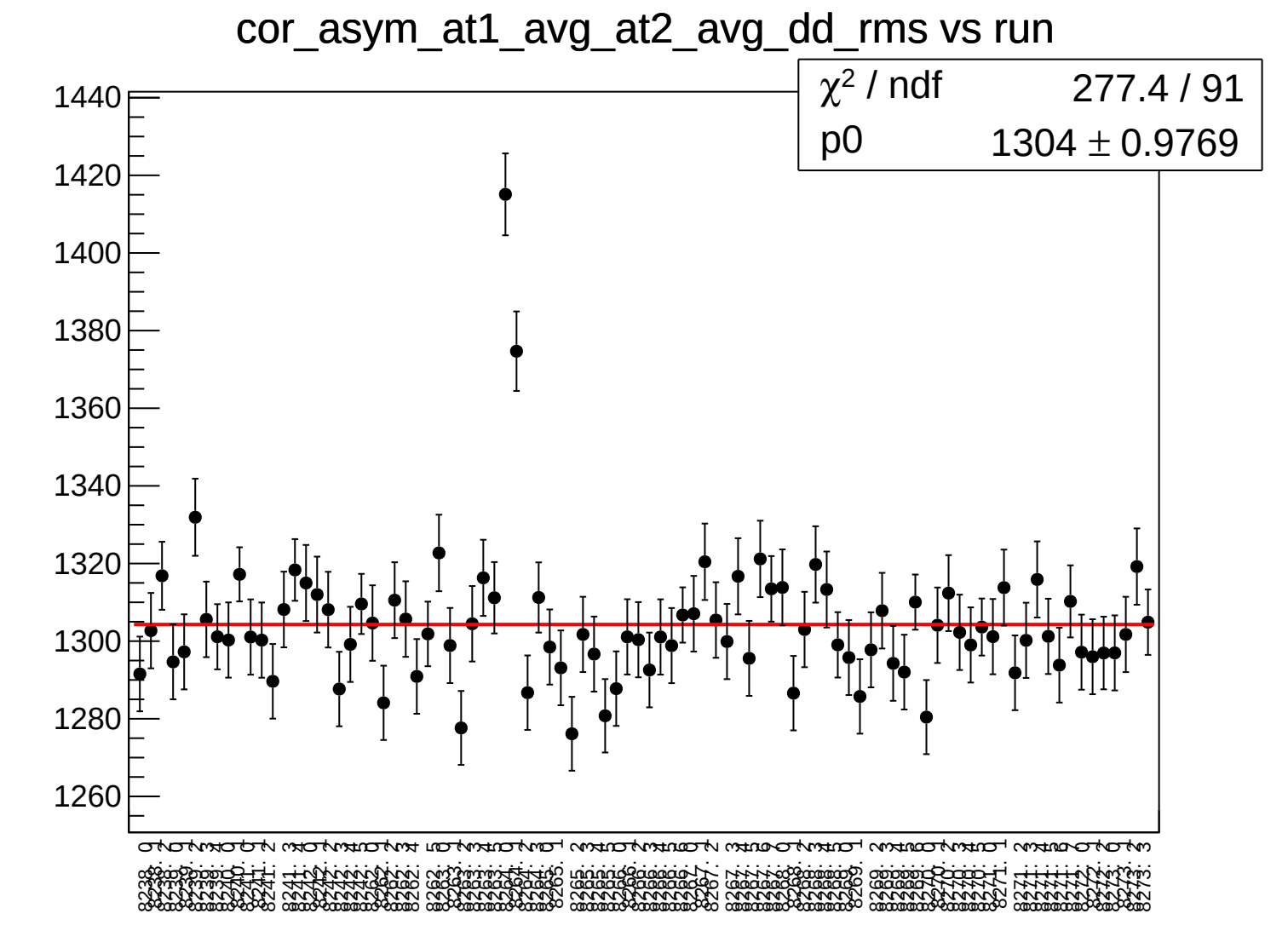

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 68.33 / 91
p0 −1.197e+04 ± 5762
pull
Entries 92
Mean −424.4
Std Dev 0

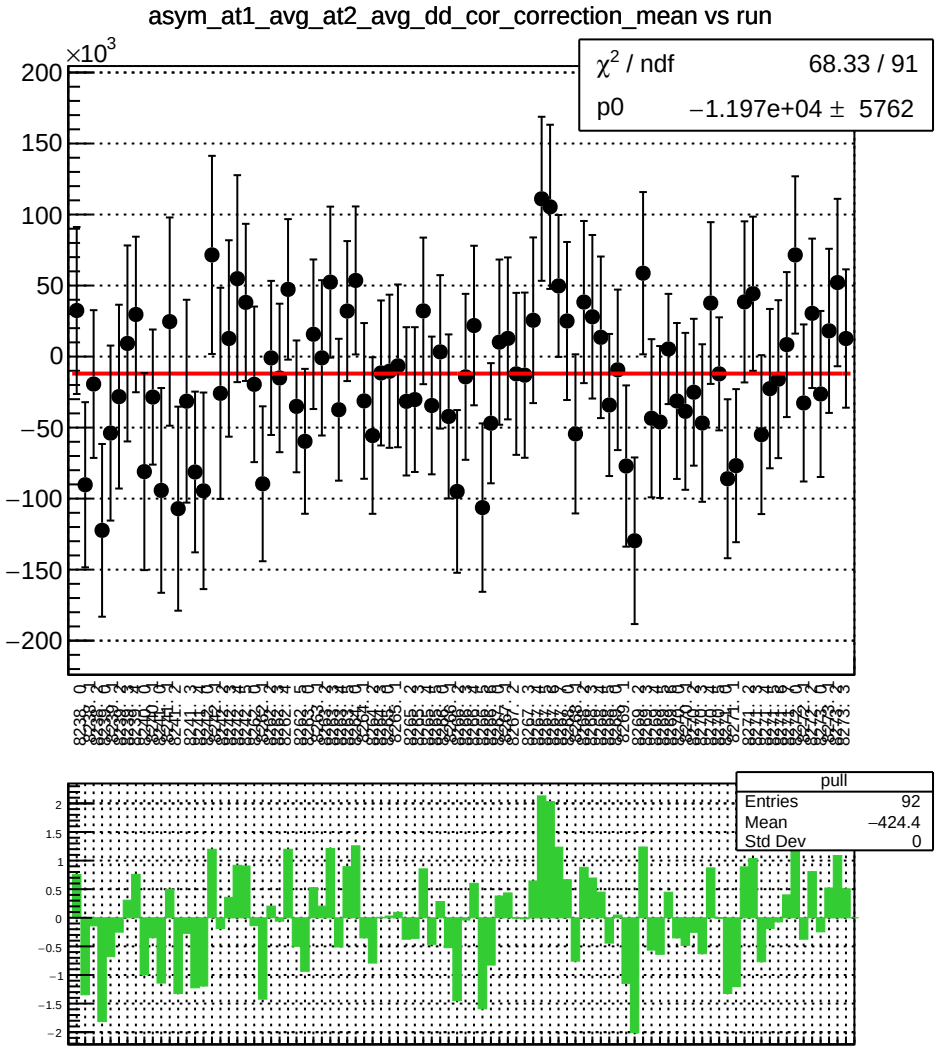

pull1D
Entries 92
Mean −0.008091
Std Dev 0.8617

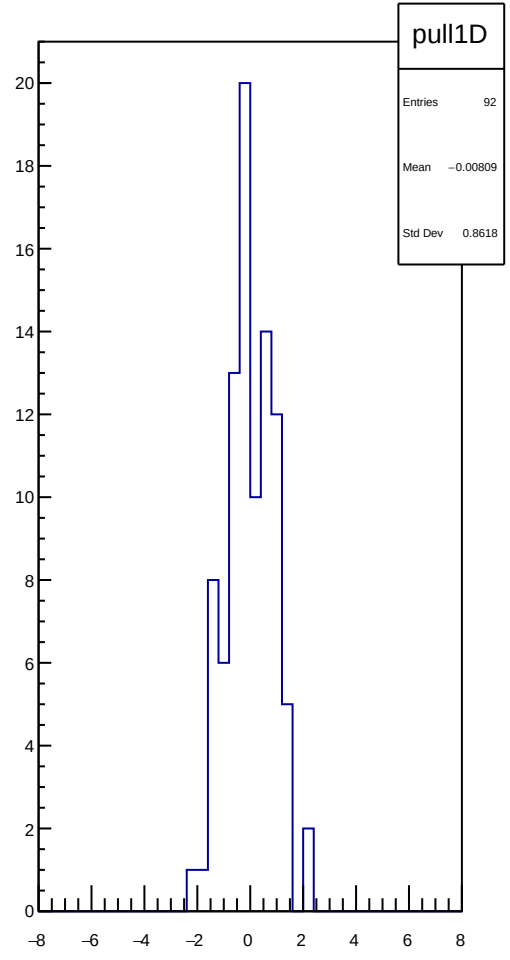

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 1.558e+04 / 91
p0 5416 ± 4.074
7000
6500
6000
5500
5000
4500

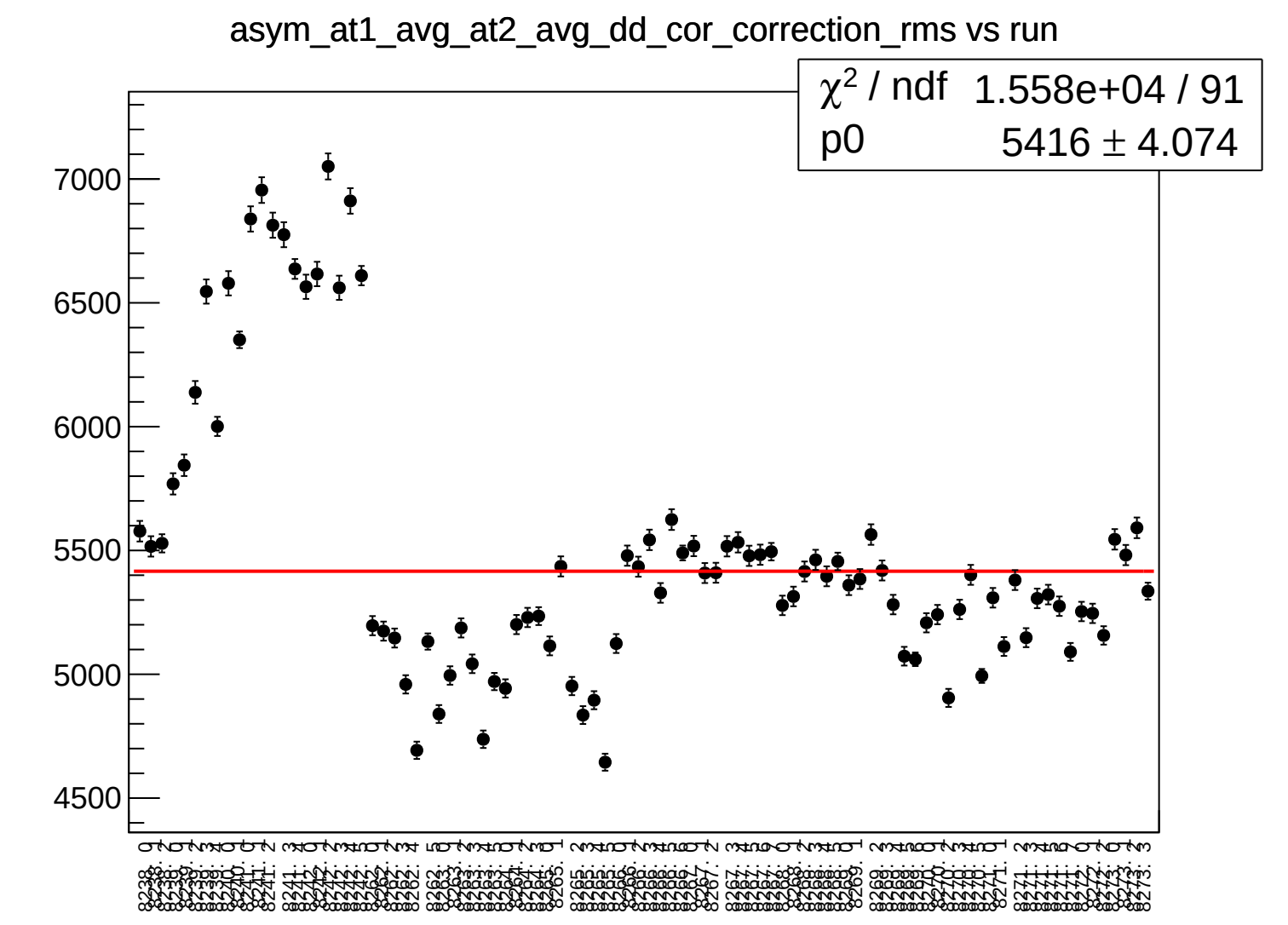

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 99.49 / 91
p0 1483 ± 1382
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 2.8e+04
Std Dev 0
3
2
1
0
−1
−2

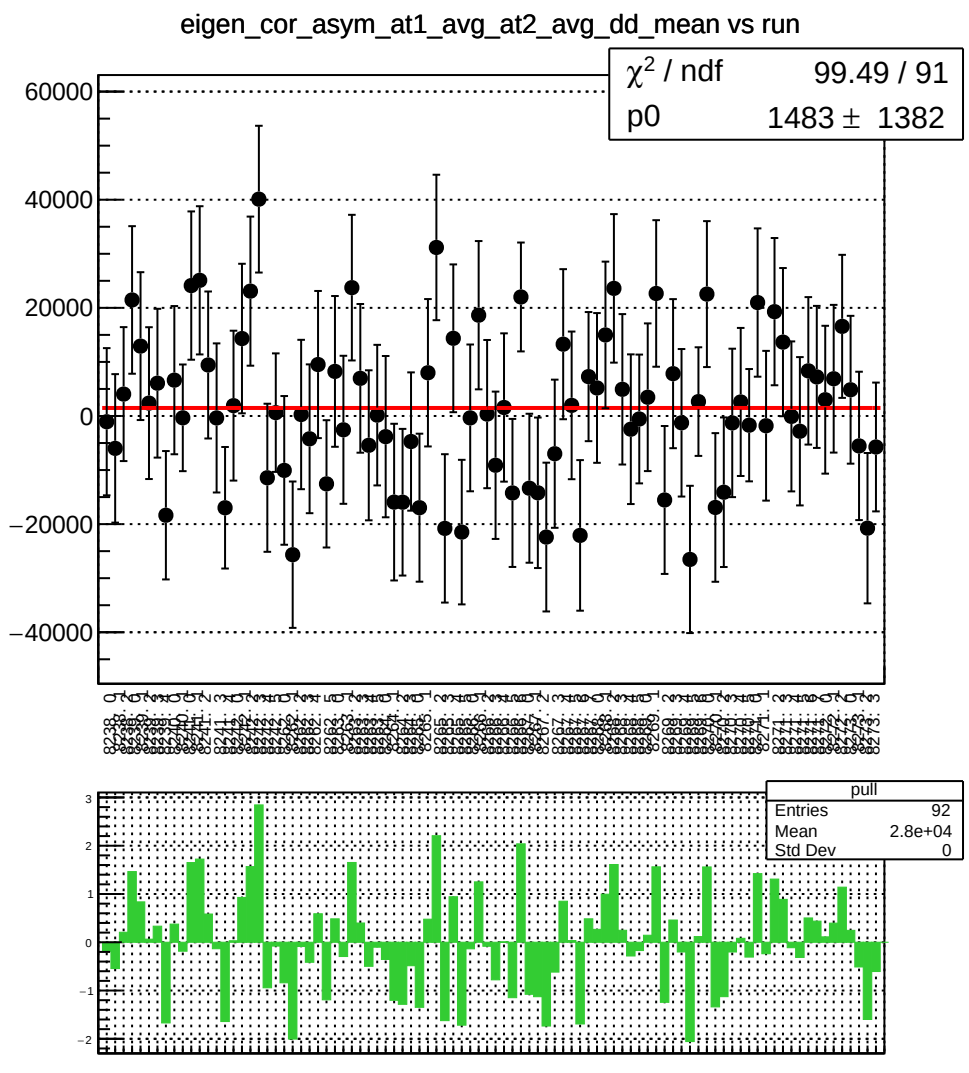

pull1D
Entries 92
Mean −4.343e−05
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

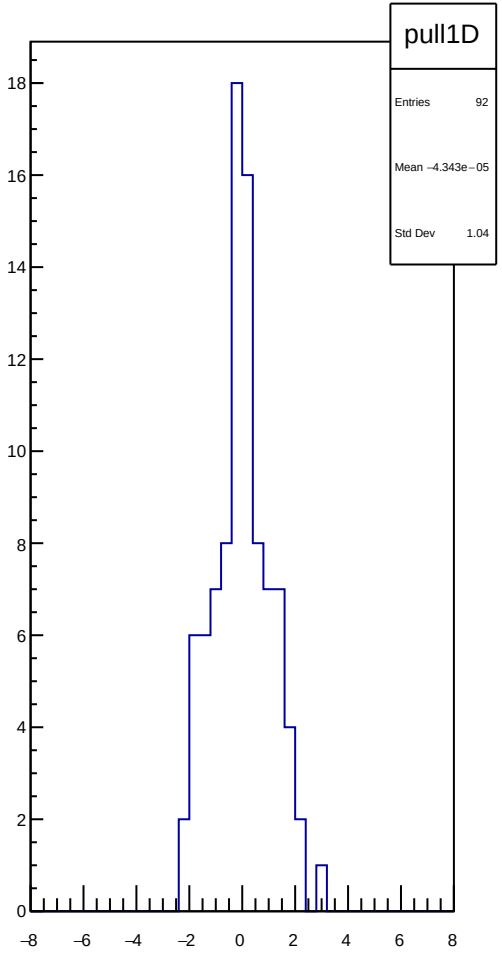

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 277.4 / 91
p0 1304 ± 0.9769
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

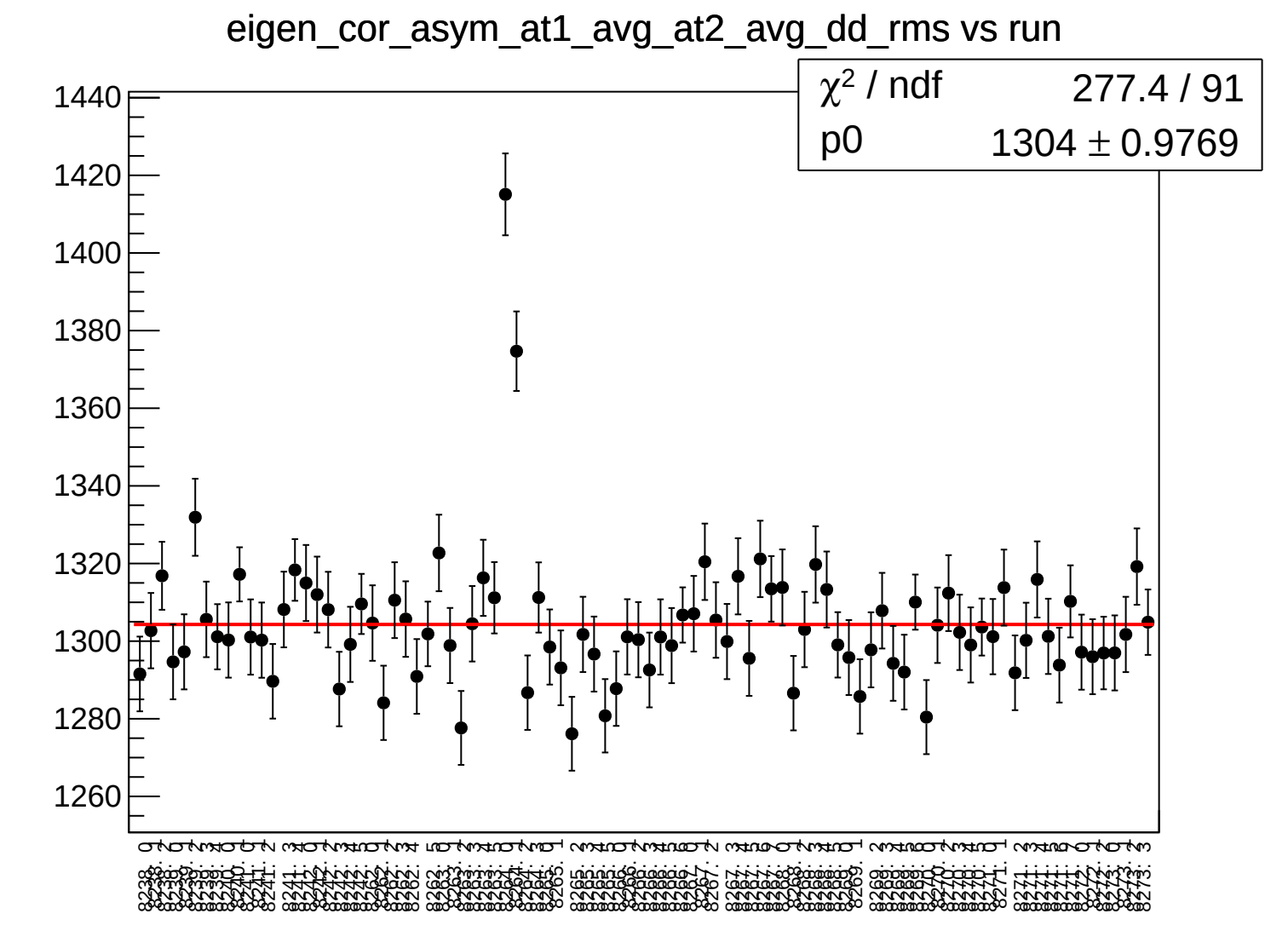

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 68.33 / 91
p0 −1.197e+04 ± 5762
pull
Entries 92
Mean −424.4
Std Dev 0

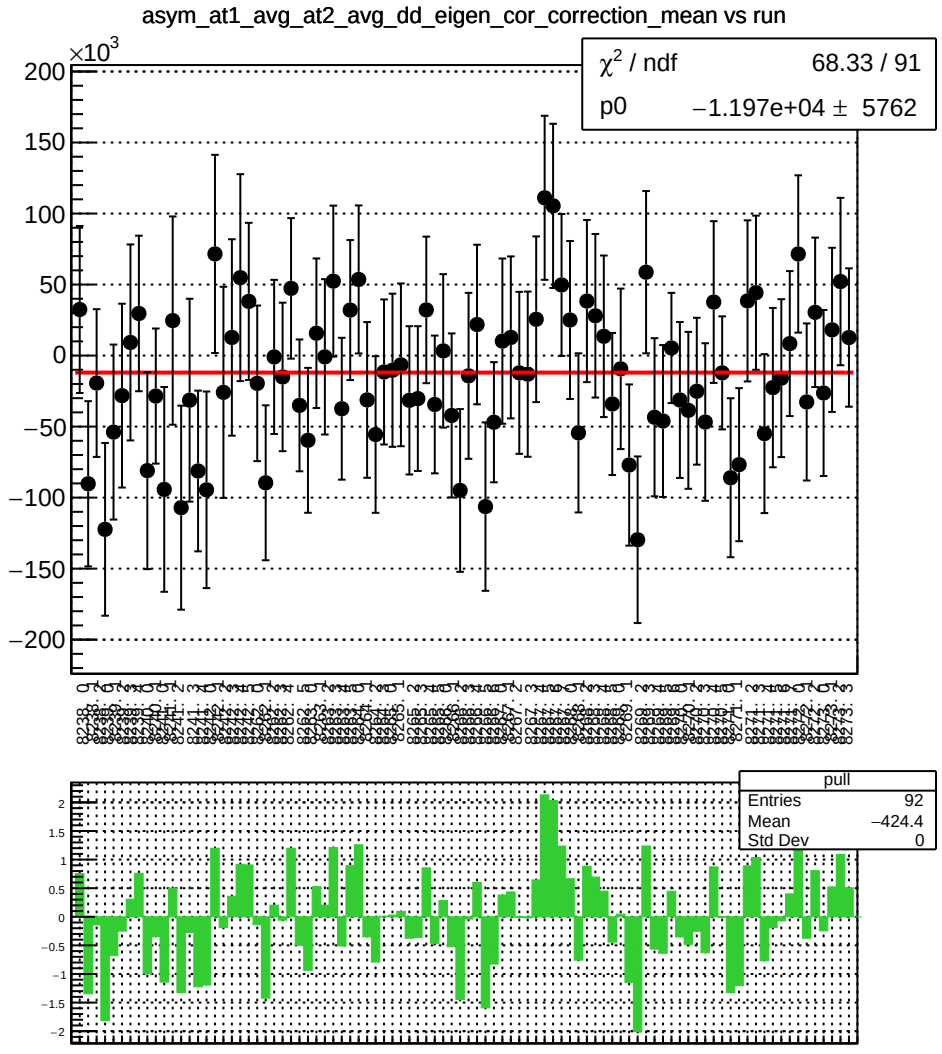

pull1D
Entries 92
Mean −0.00809
Std Dev 0.8618

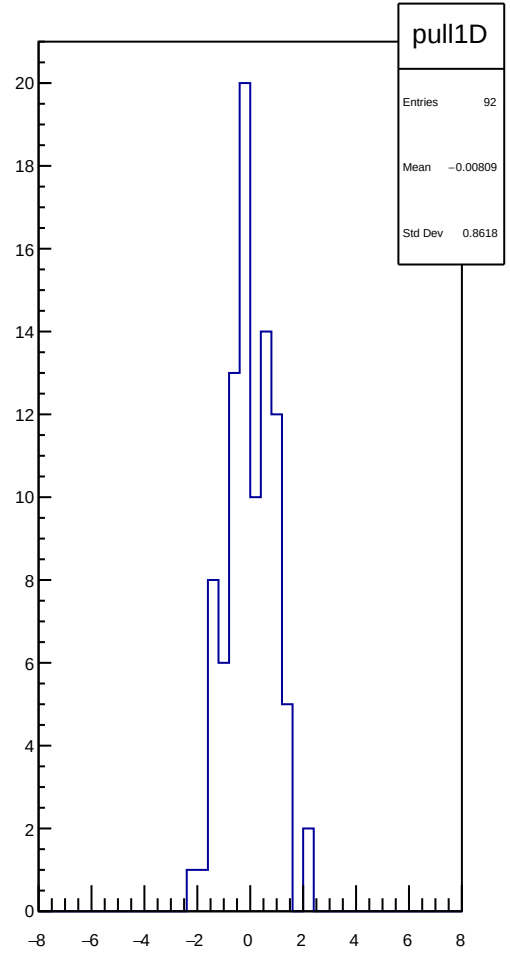

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 1.558e+04 / 91
p0 5416 ± 4.074
7000
6500
6000
5500
5000
4500

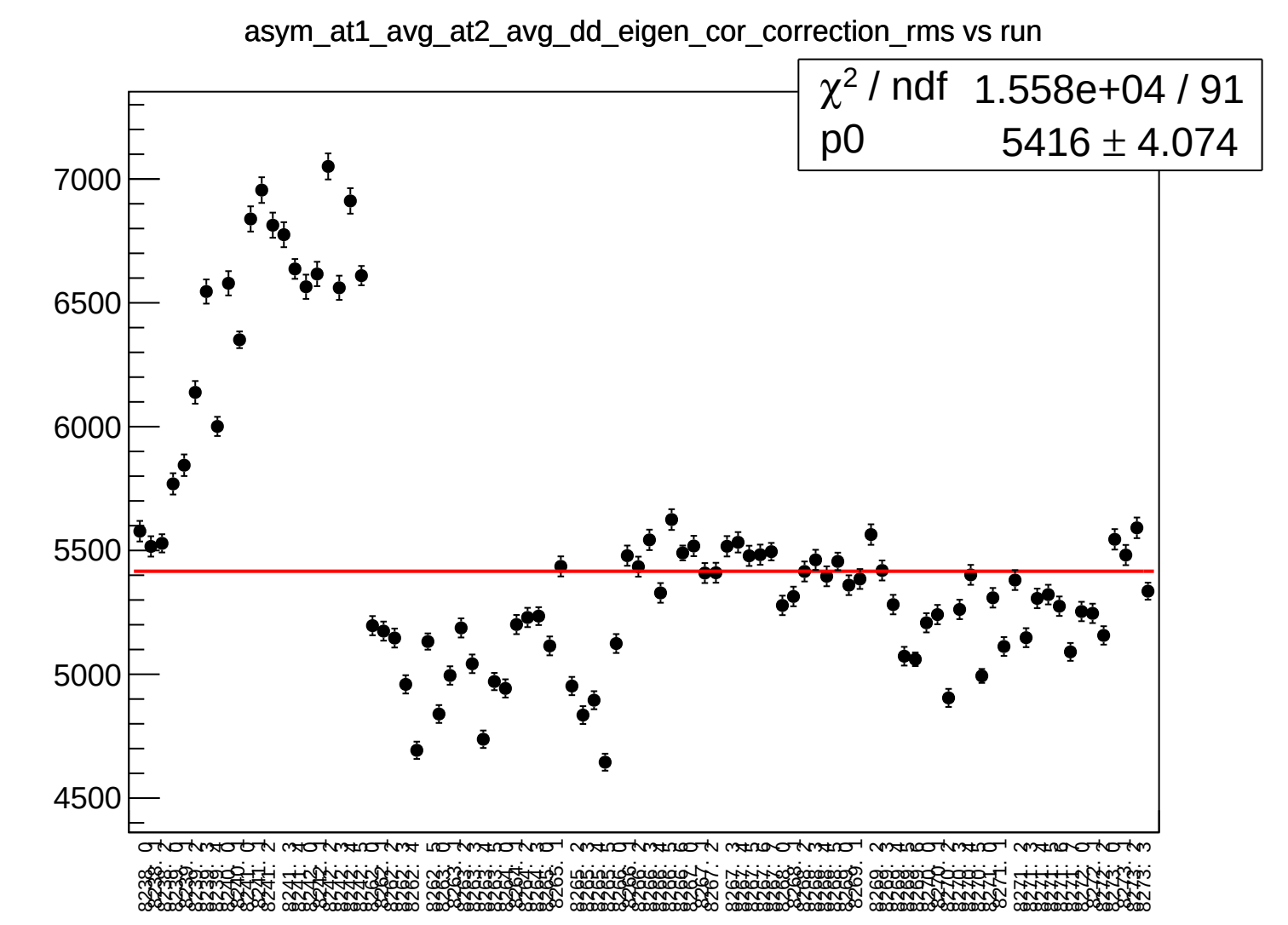

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 99.49 / 91
p0 1483 ± 1382
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 2.8e+04
Std Dev 0
3
2
1
0
−1
−2

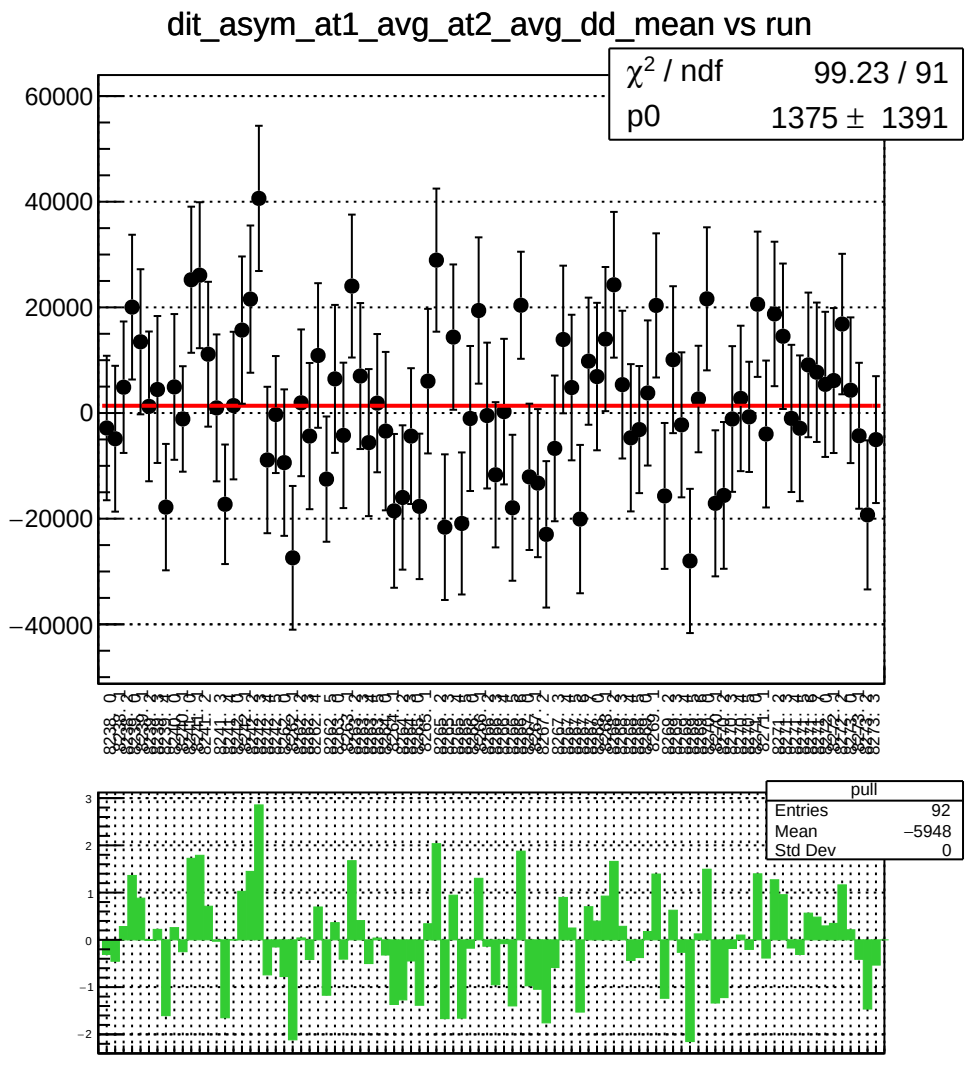

pull1D
Entries 92
Mean −4.343e−05
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

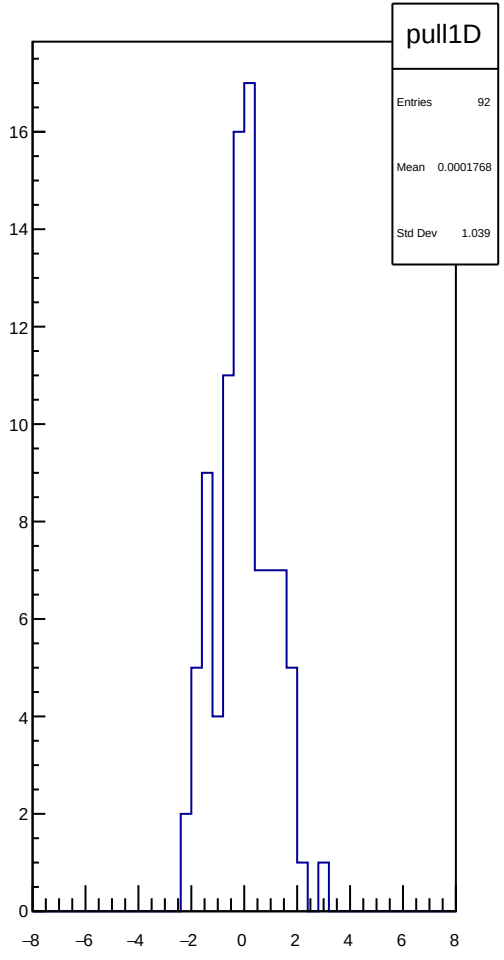

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 277.4 / 91
p0 1304 ± 0.9769
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

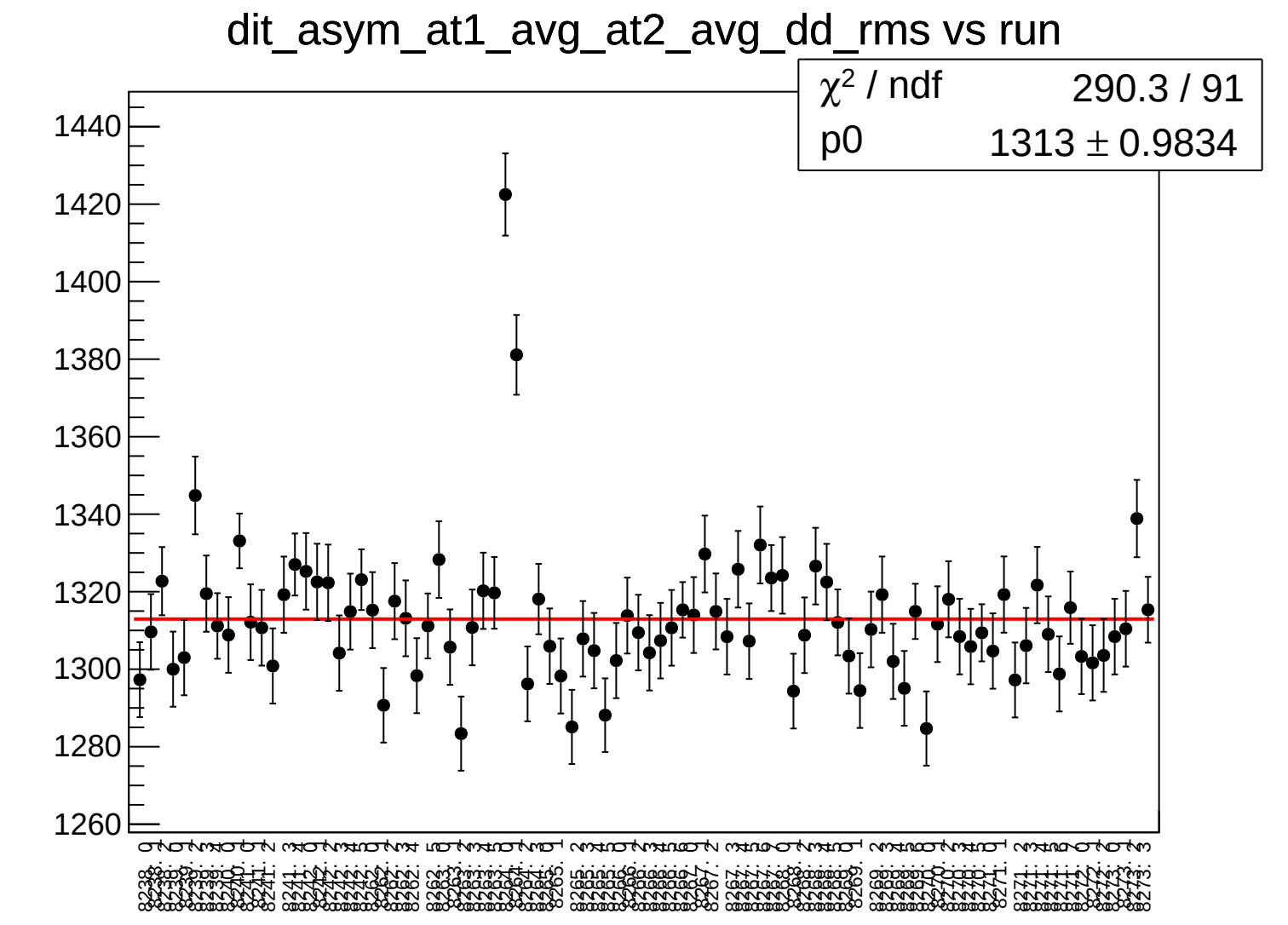

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 68.33 / 91
p0 −1.197e+04 ± 5762
pull
Entries 92
Mean −424.4
Std Dev 0

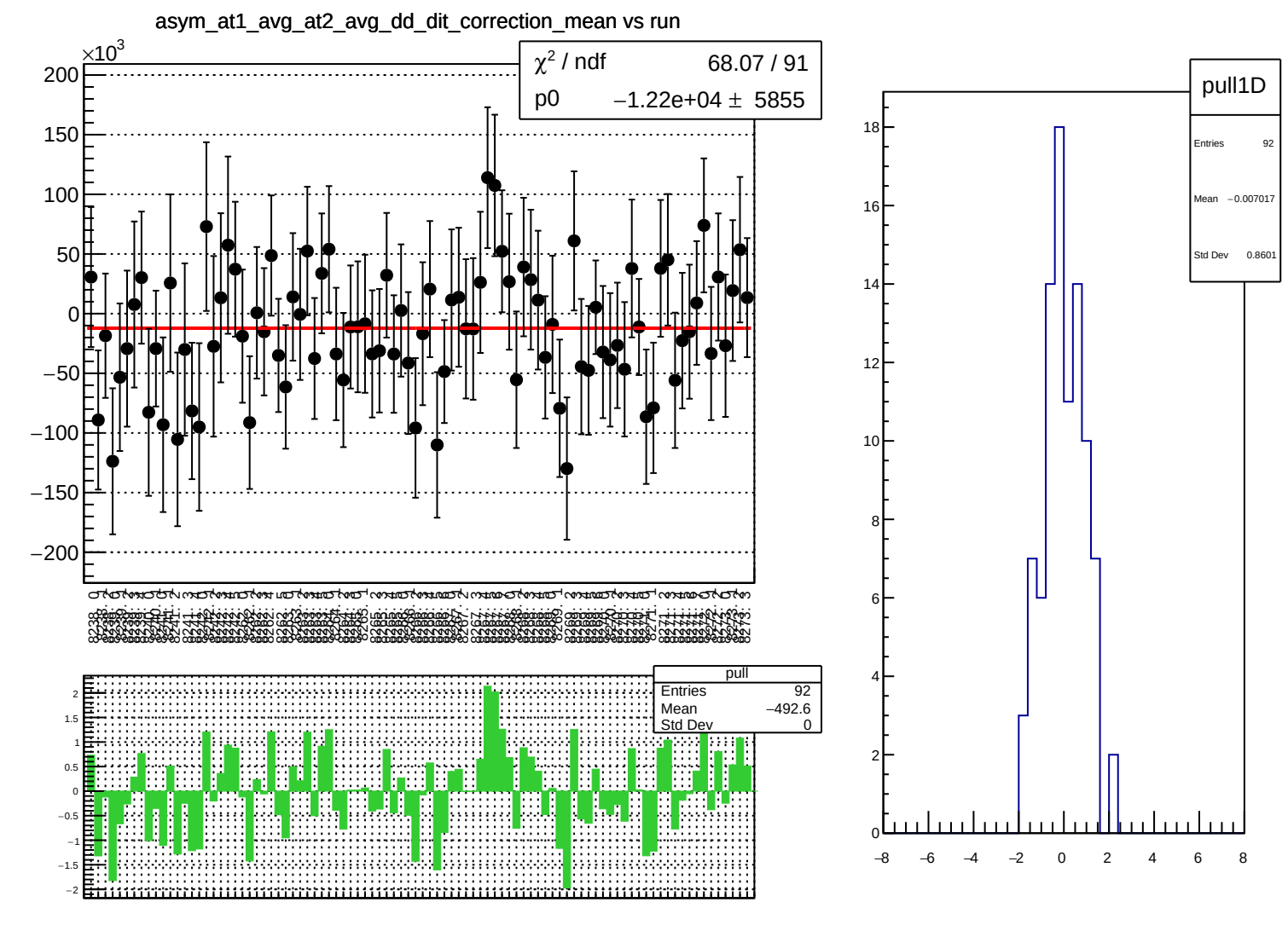

pull1D
Entries 92
Mean −0.00809
Std Dev 0.8618

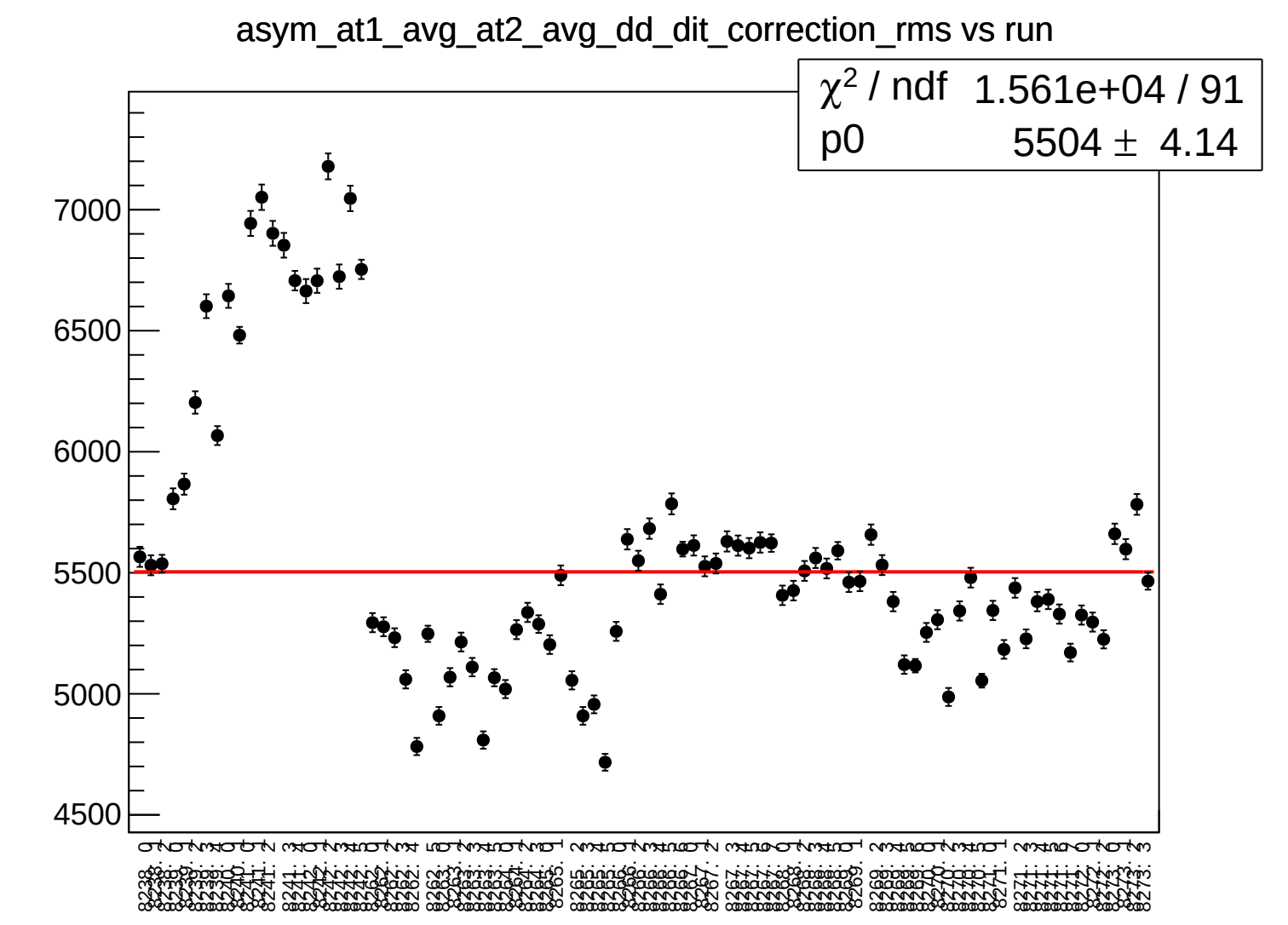

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.558e+04 / 91
p0 5416 ± 4.074
7000
6500
6000
5500
5000
4500

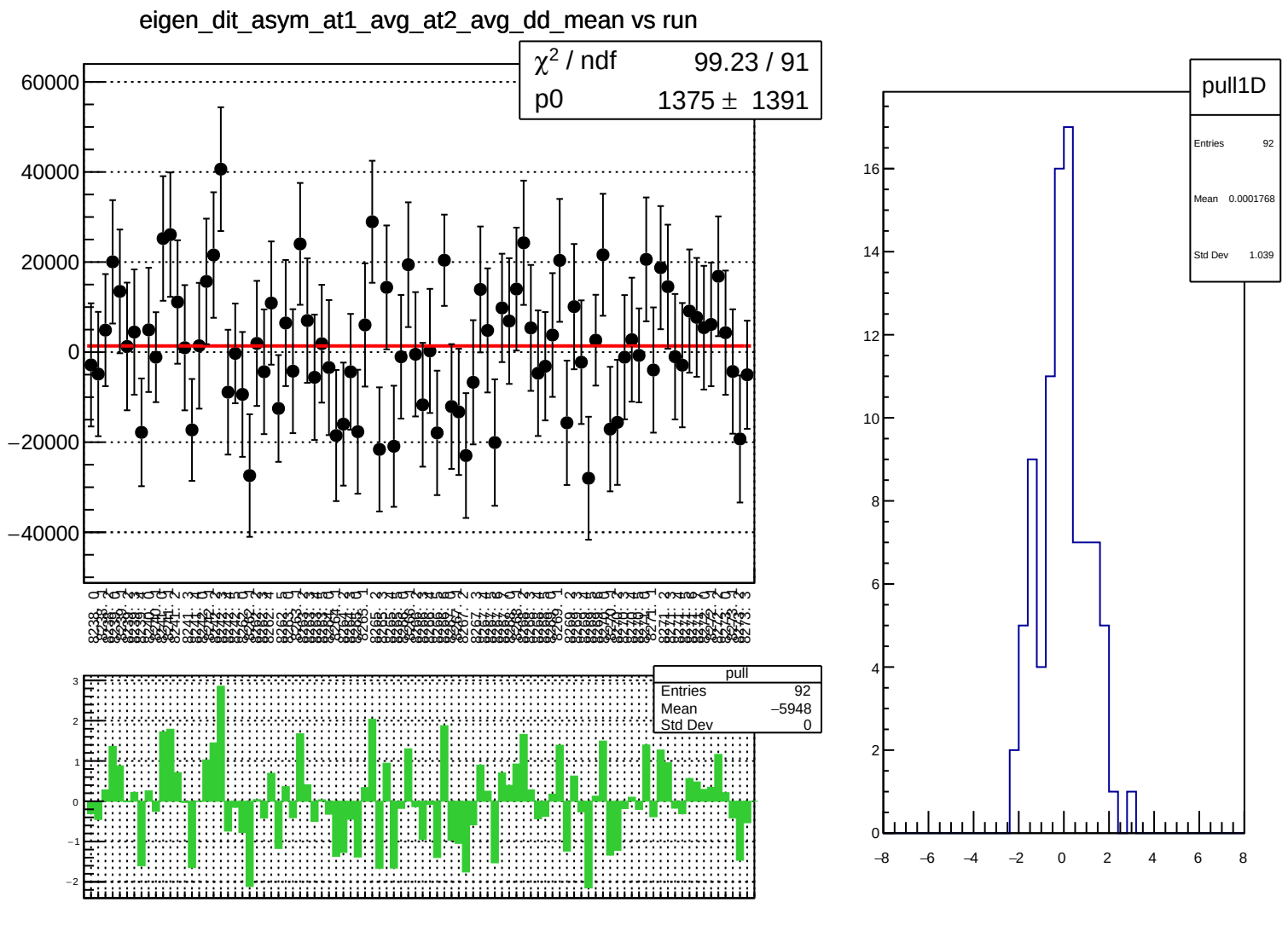

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 99.23 / 91
p0 1375 ± 1391
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −5948
Std Dev 0
3
2
1
0
−1
−2

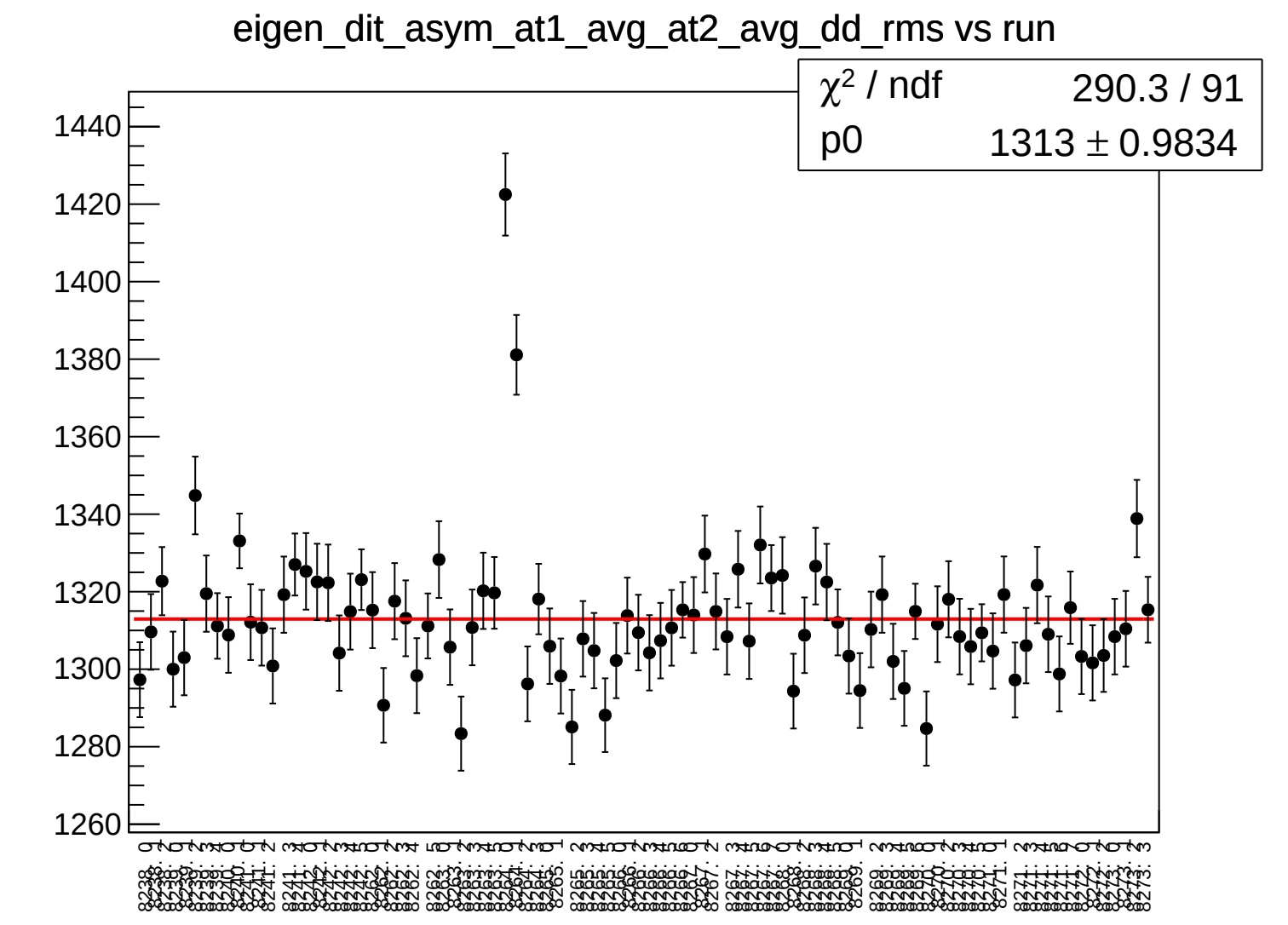

pull1D
Entries 92
Mean 0.0001768
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

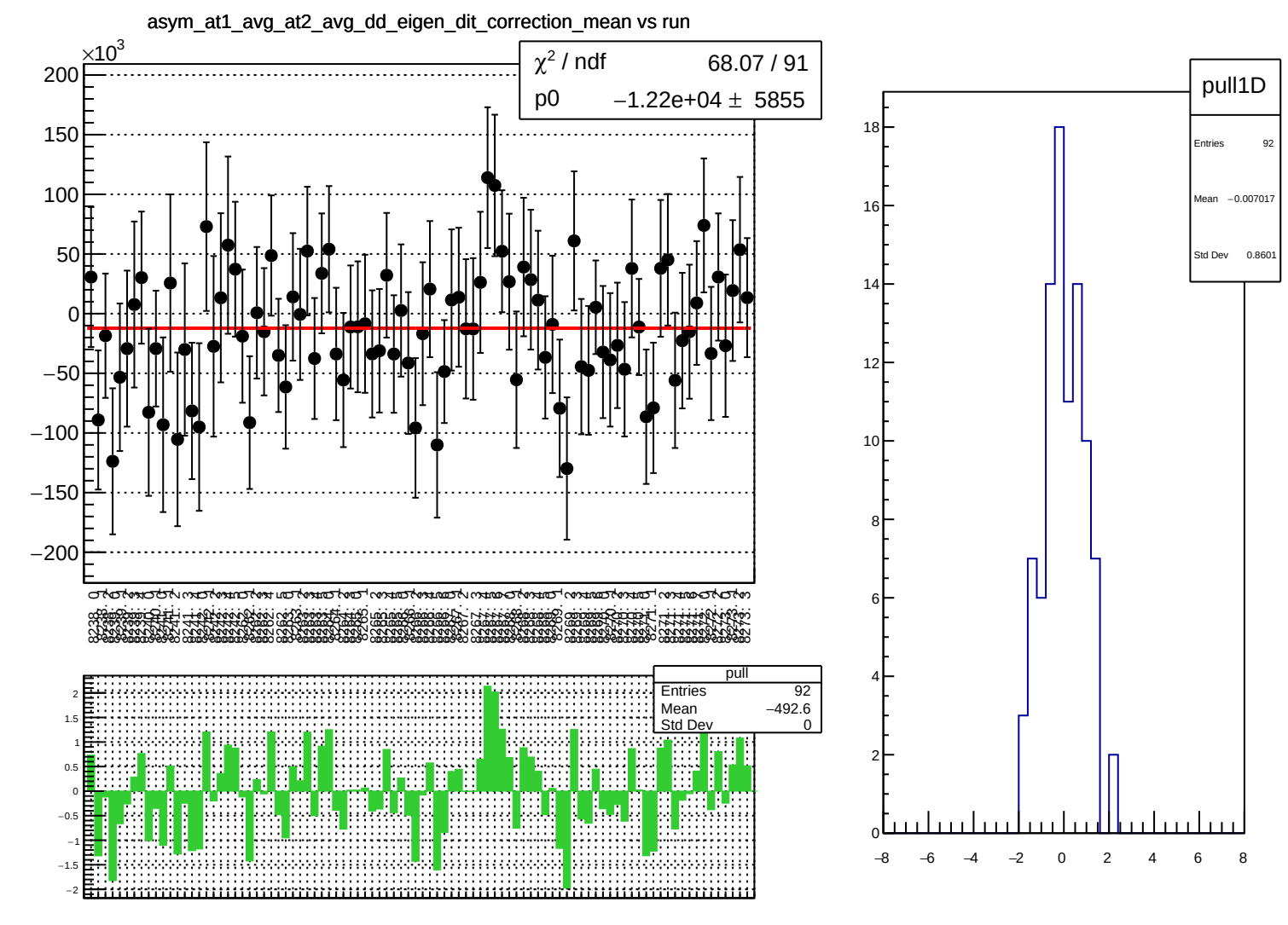

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 290.3 / 91
p0 1313 ± 0.9834
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

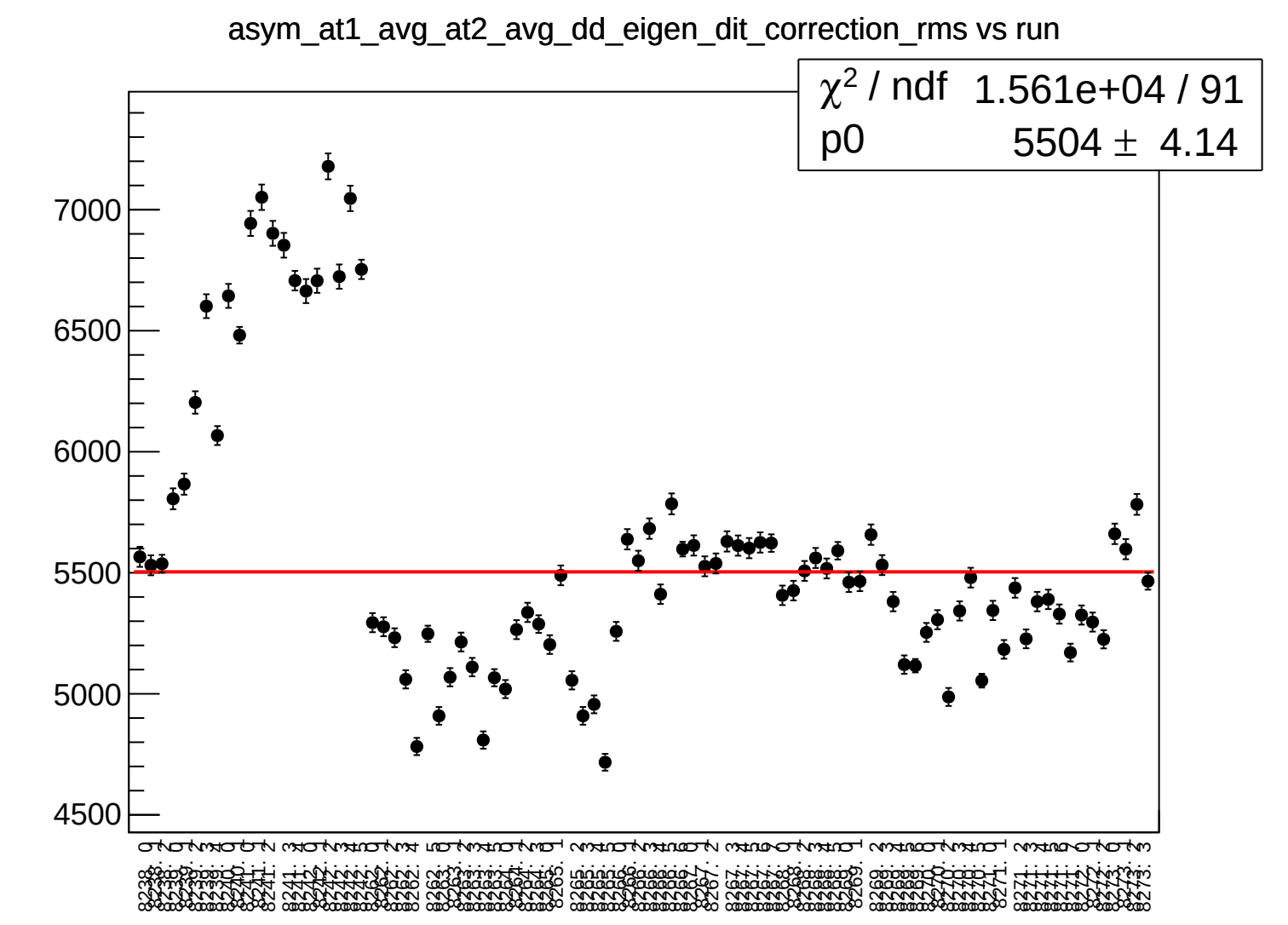

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 68.07 / 91
p0 −1.22e+04 ± 5855
pull
Entries 92
Mean −492.6
Std Dev 0
pull1D
Entries 92
Mean −0.007017
Std Dev 0.8601

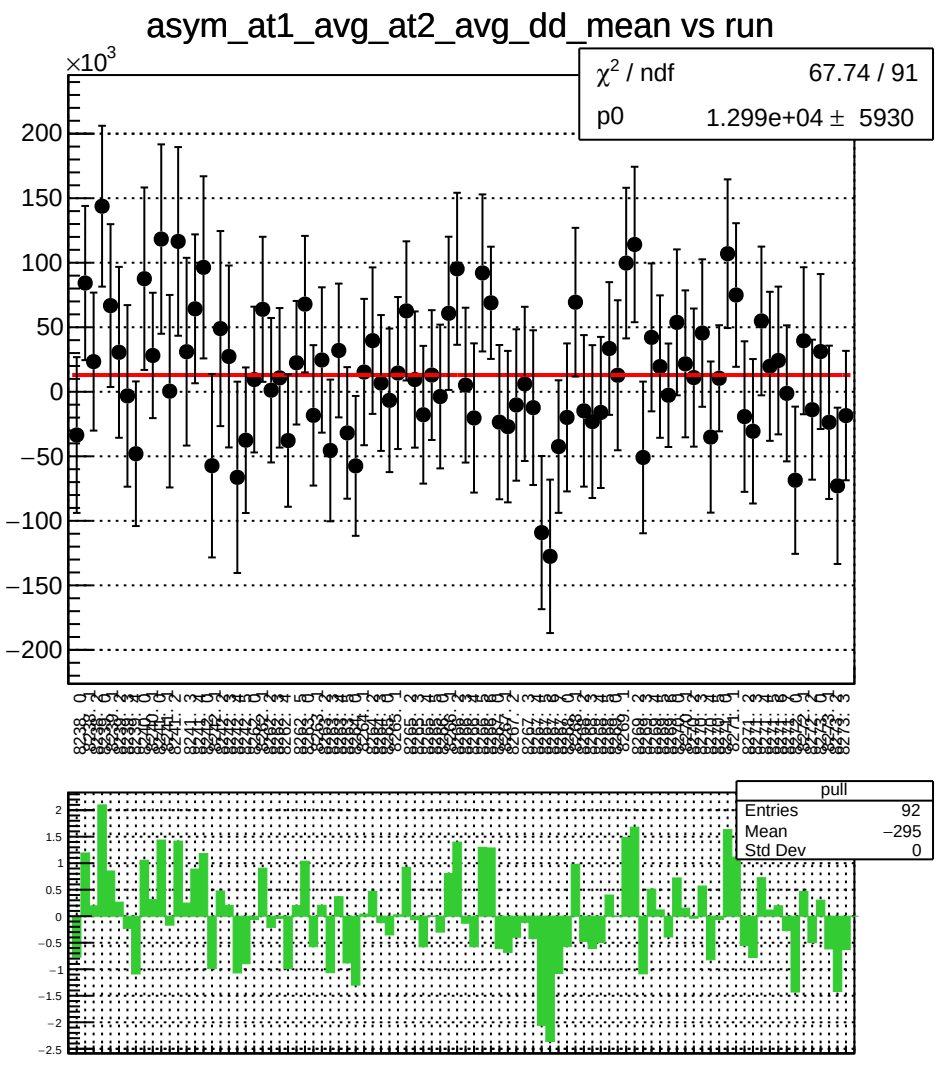

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 1.561e+04 / 91
p0 5504 ± 4.14
7000
6500
6000
5500
5000
4500

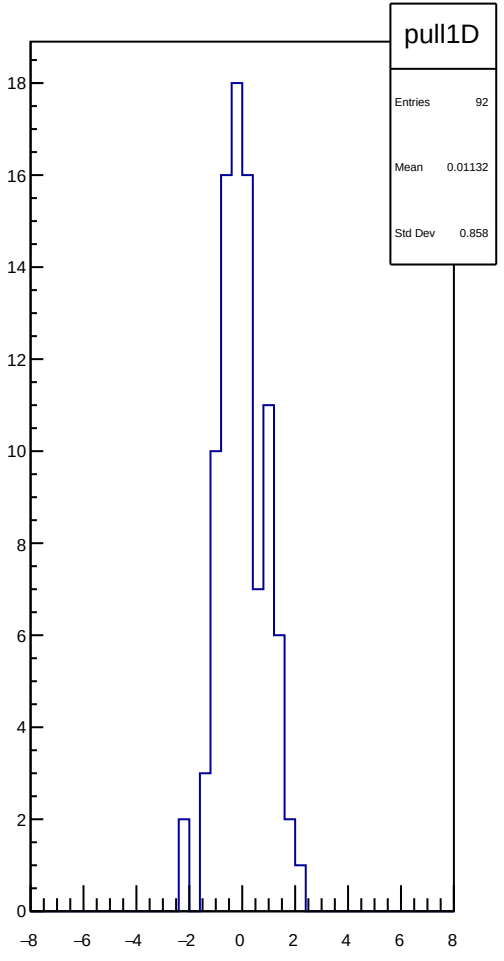

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 99.23 / 91
p0 1375 ± 1391
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −5948
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0001768
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

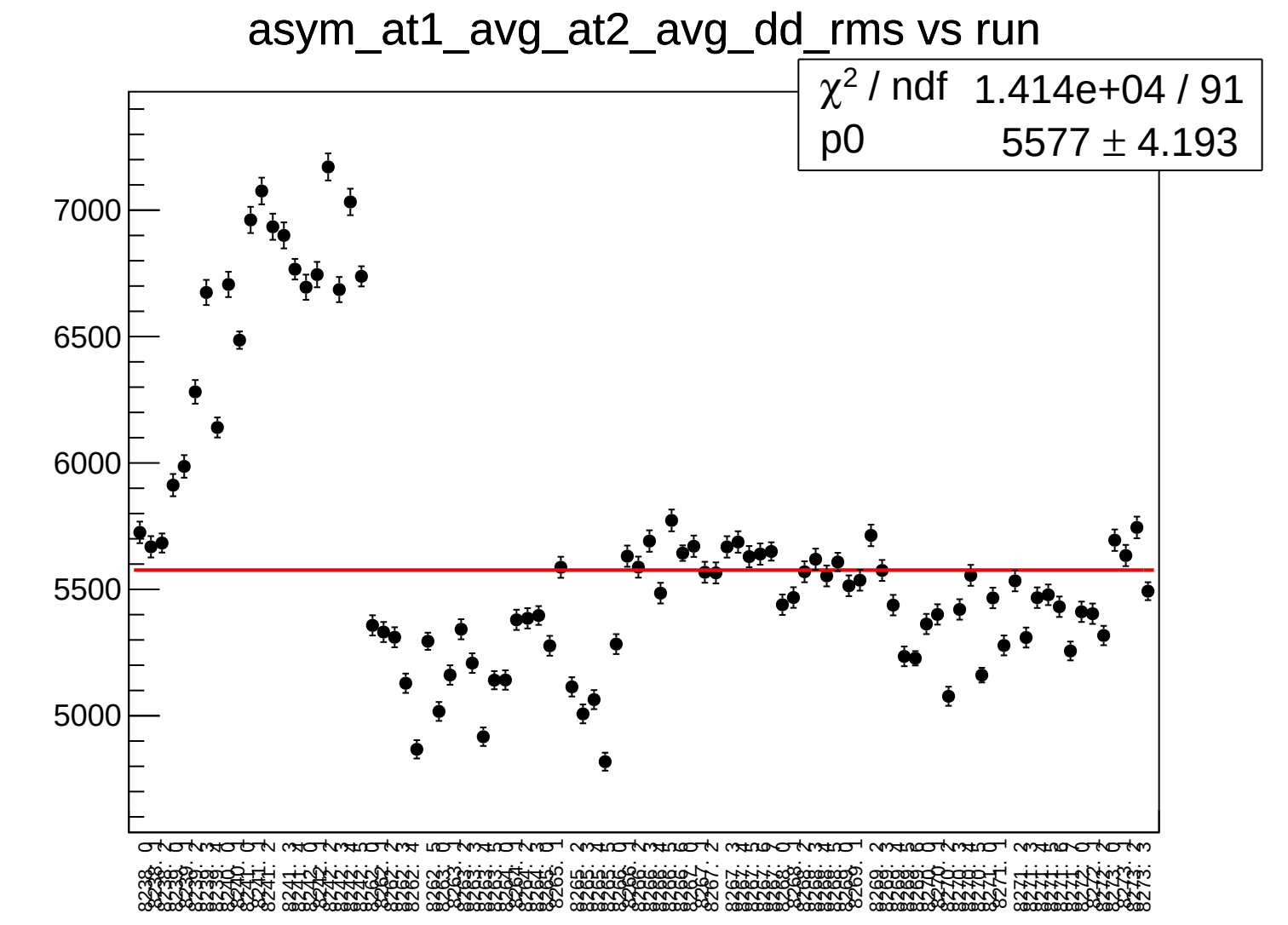

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 290.3 / 91
p0 1313 ± 0.9834
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

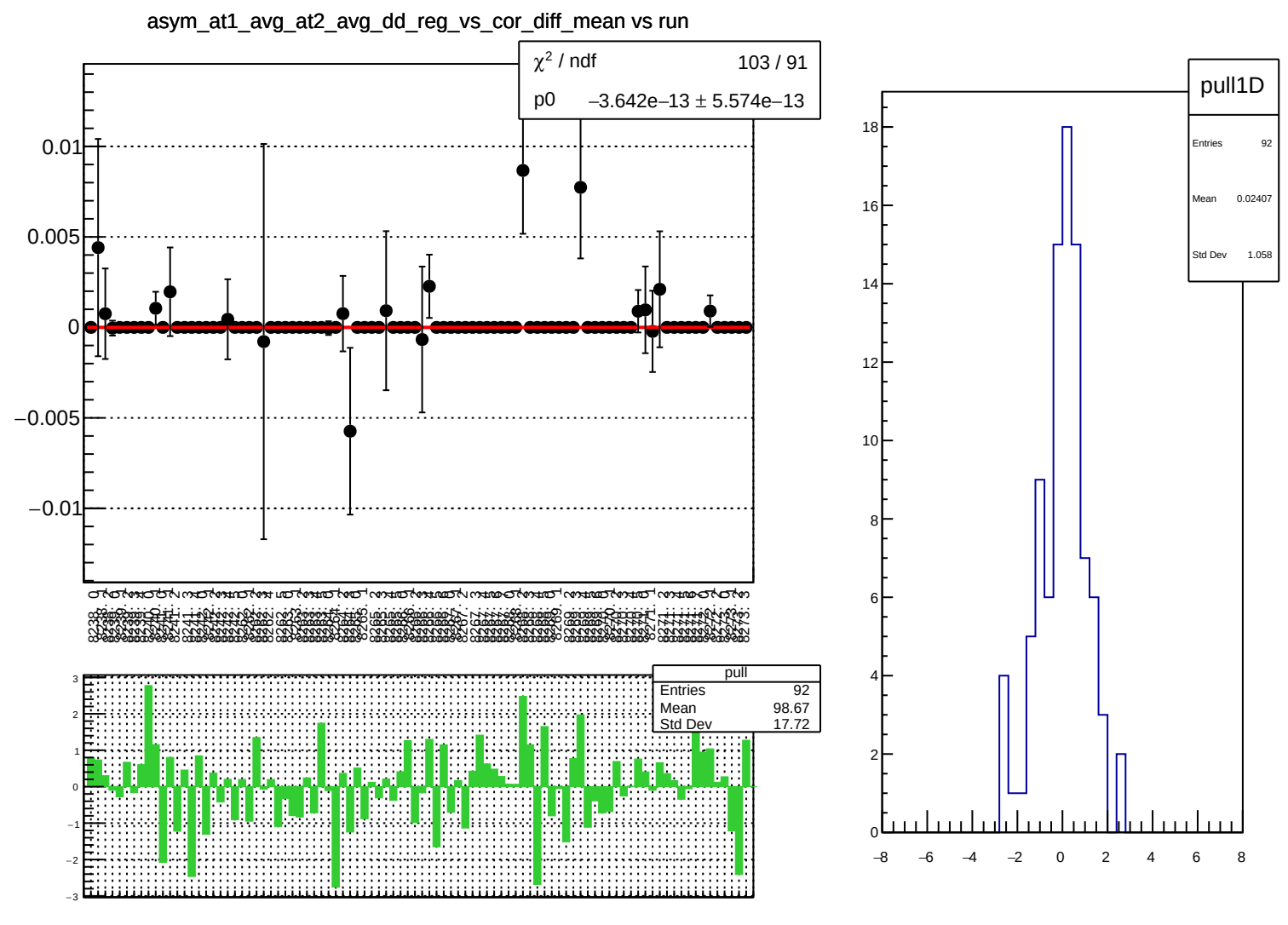

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.07 / 91
p0 −1.22e+04 ± 5855
pull
Entries 92
Mean −492.6
Std Dev 0
pull1D
Entries 92
Mean −0.007017
Std Dev 0.8601

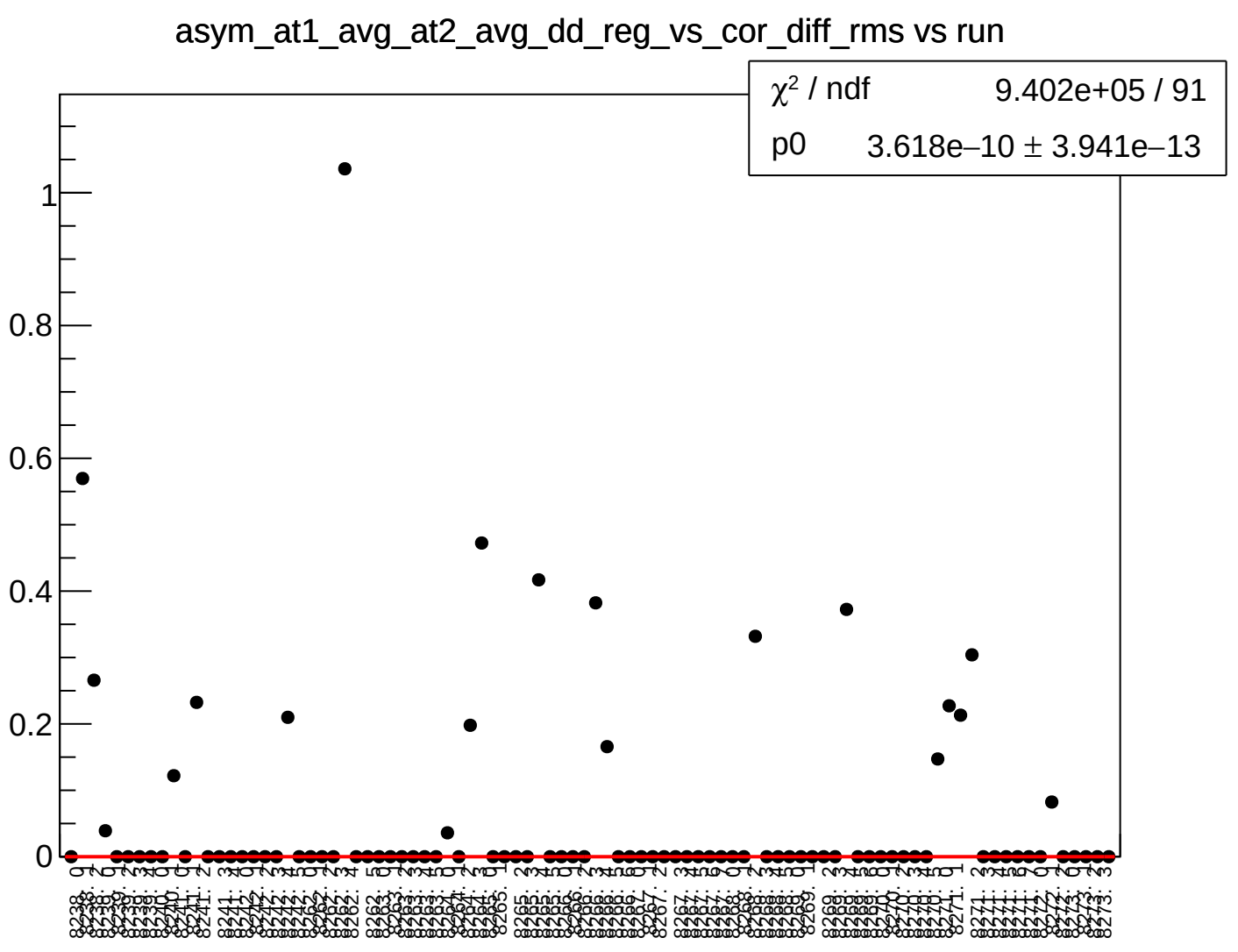

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.561e+04 / 91
p0 5504 ± 4.14
7000
6500
6000
5500
5000
4500

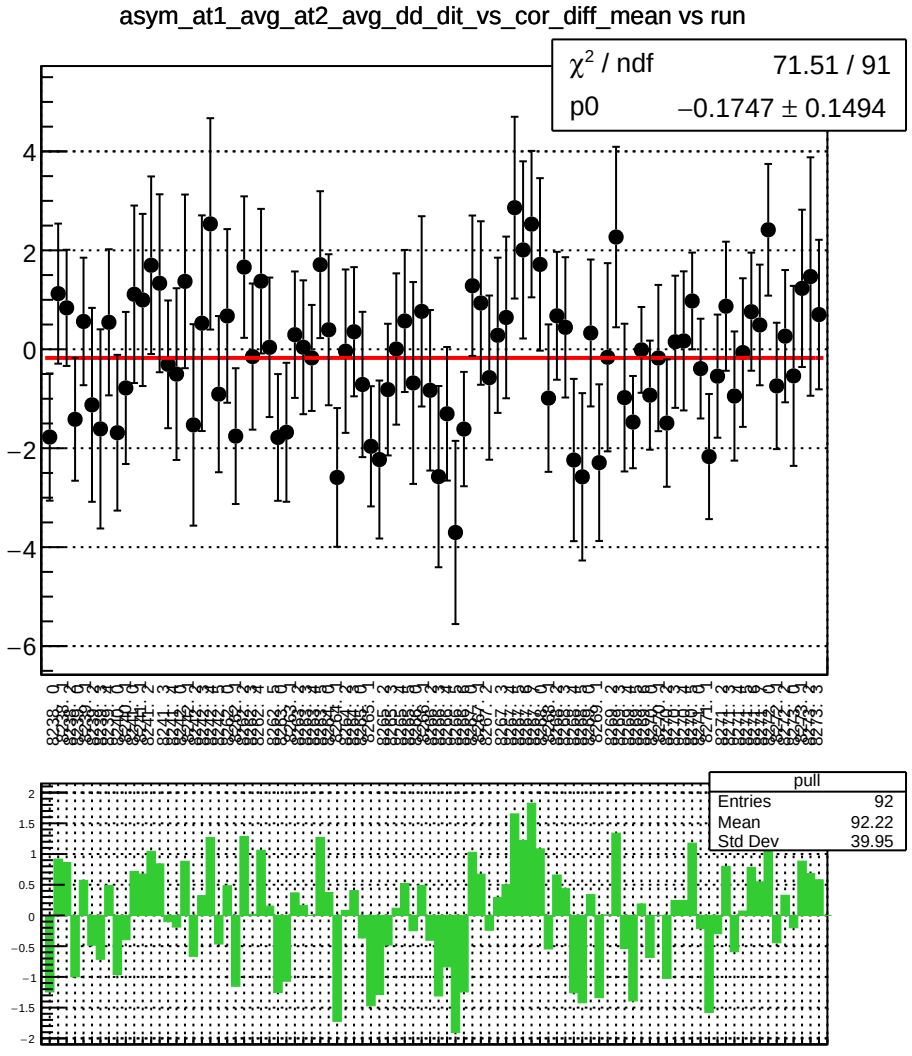

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 67.74 / 91
p0 1.299e+04 ± 5930
pull
Entries 92
Mean −295
Std Dev 0

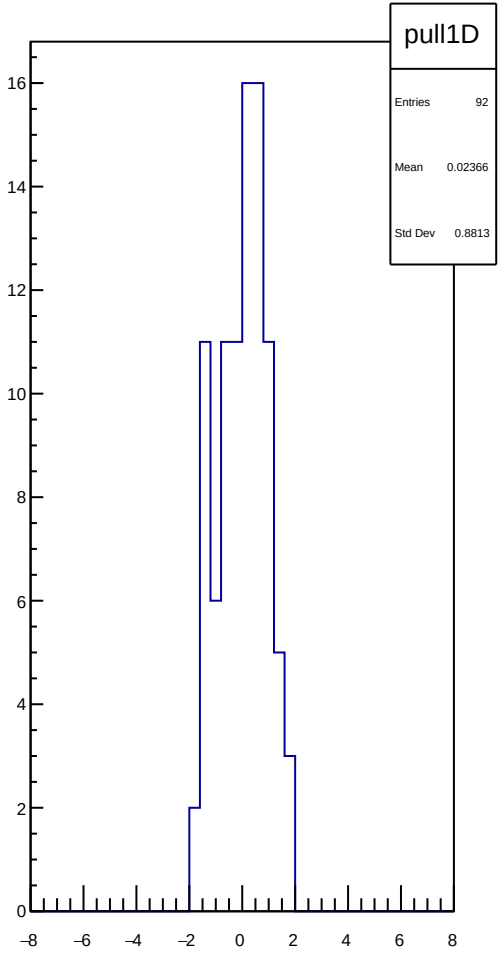

pull1D
Entries 92
Mean 0.01132
Std Dev 0.858

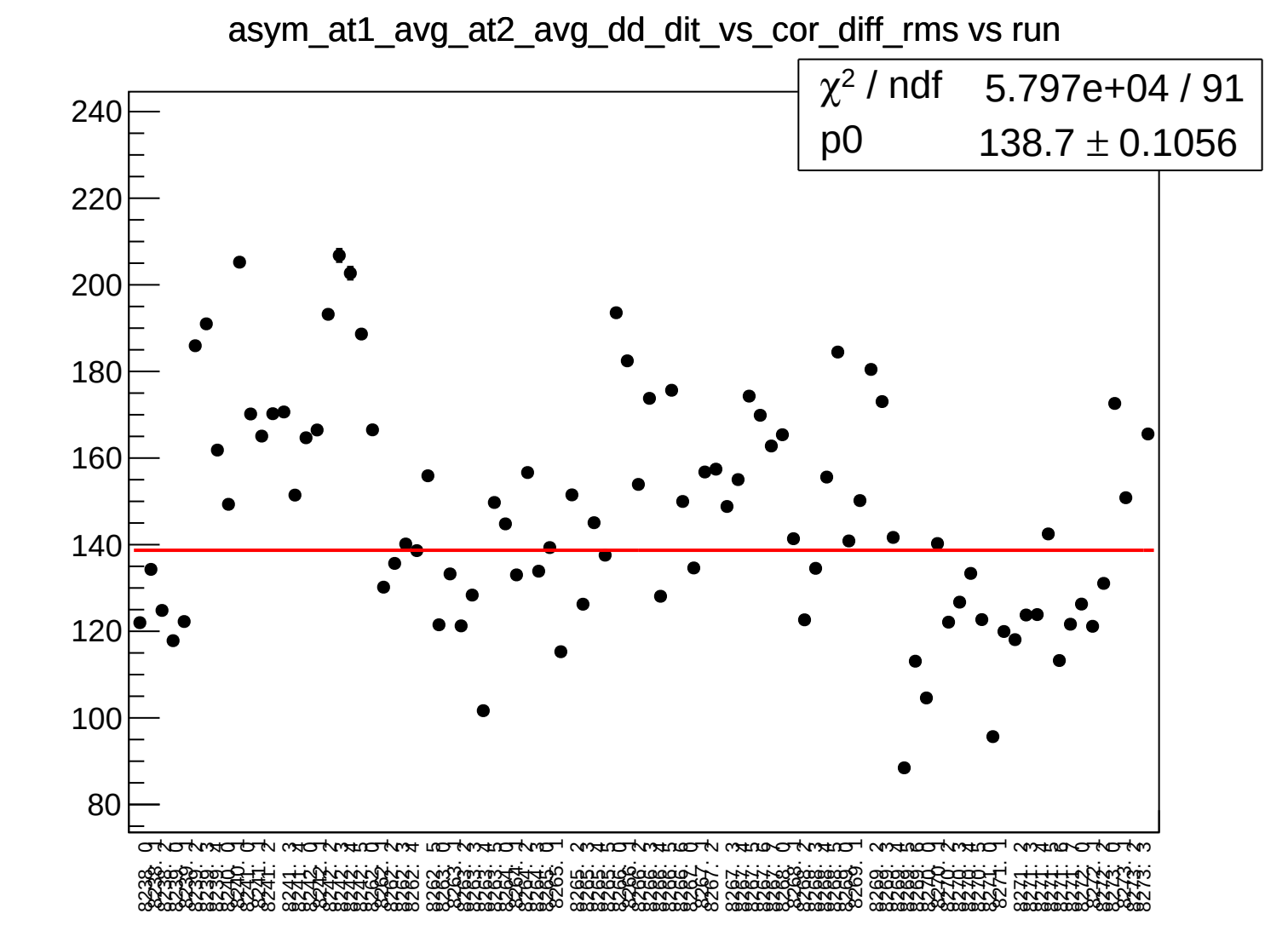

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1.414e+04 / 91
p0 5577 ± 4.193
7000
6500
6000
5500
5000

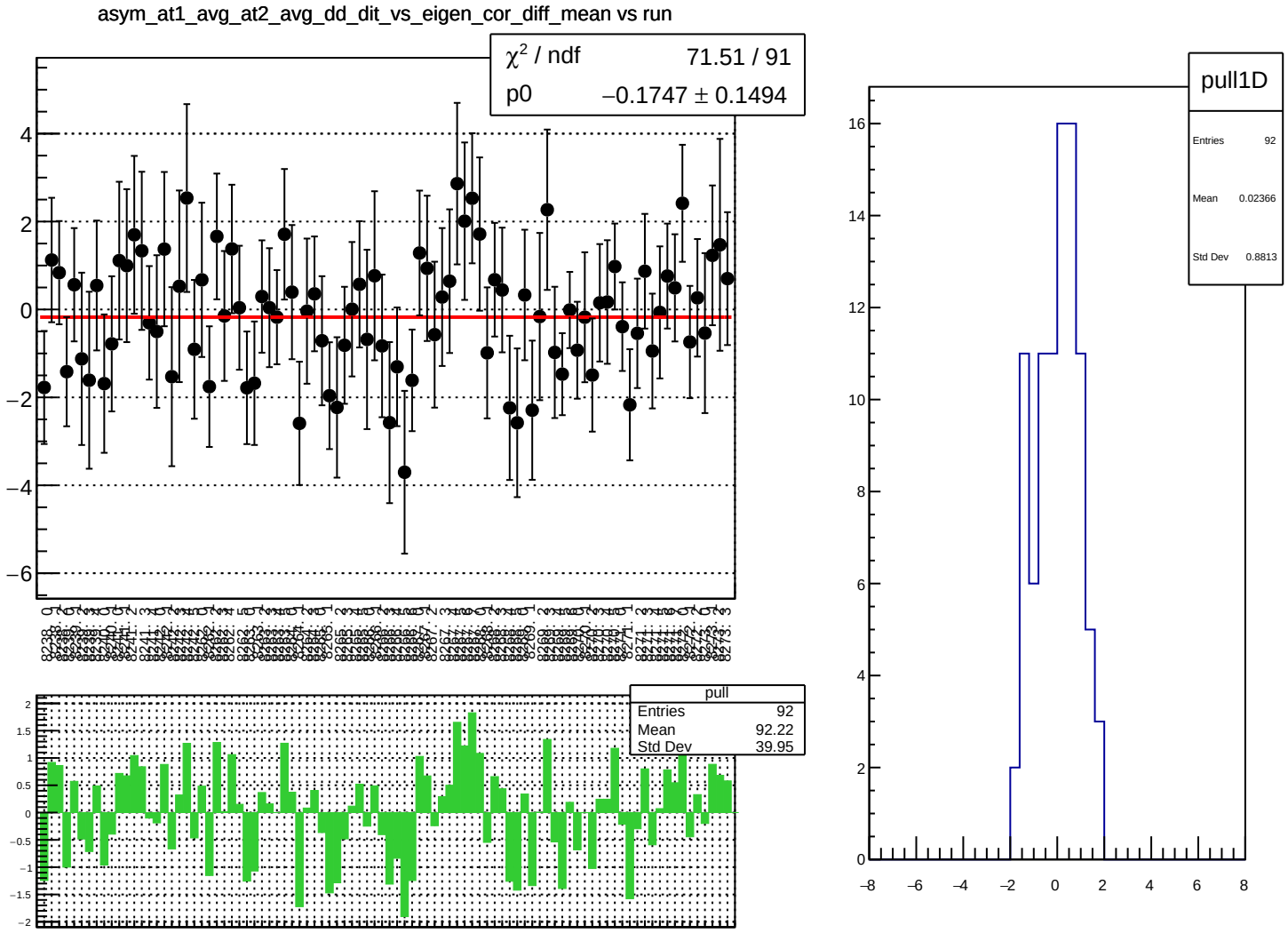

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 103 / 91
p0 −3.642e−13 ± 5.574e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 92
Mean 98.67
Std Dev 17.72
pull1D
Entries 92
Mean 0.02407
Std Dev 1.058

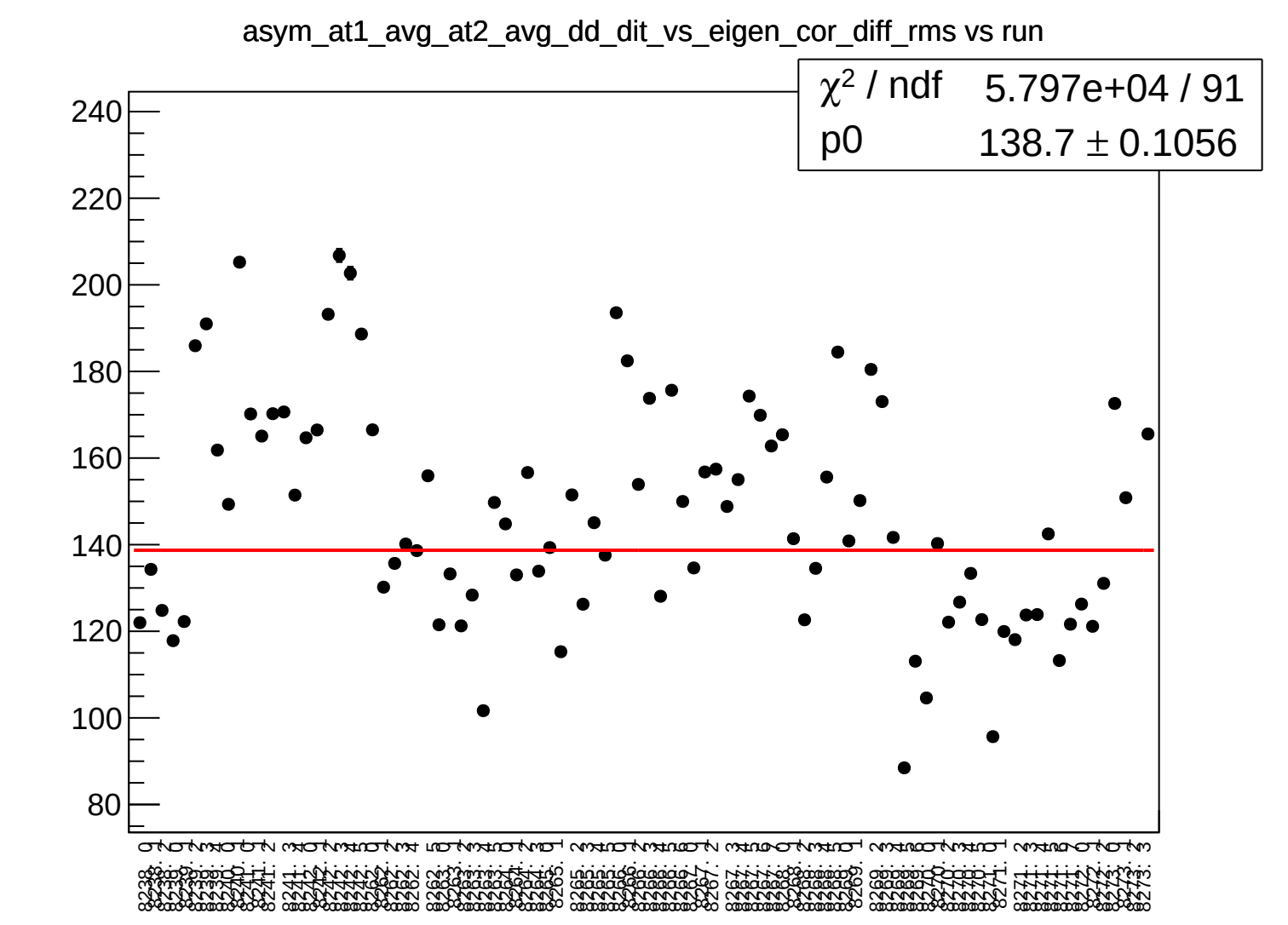

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.402e+05 / 91
p0 3.618e−10 ± 3.941e−13
1
0.8
0.6
0.4
0.2
0

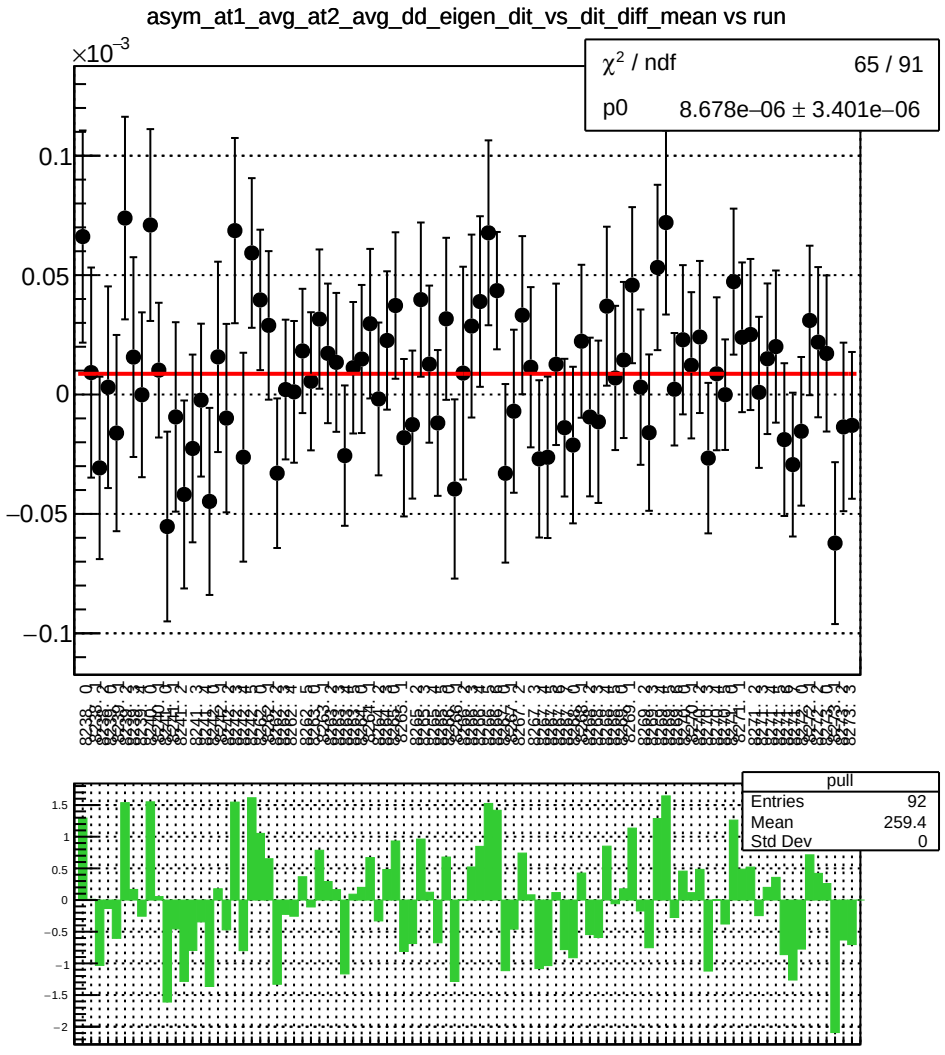

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.51 / 91
p0 −0.1747 ± 0.1494
pull
Entries 92
Mean 92.22
Std Dev 39.95

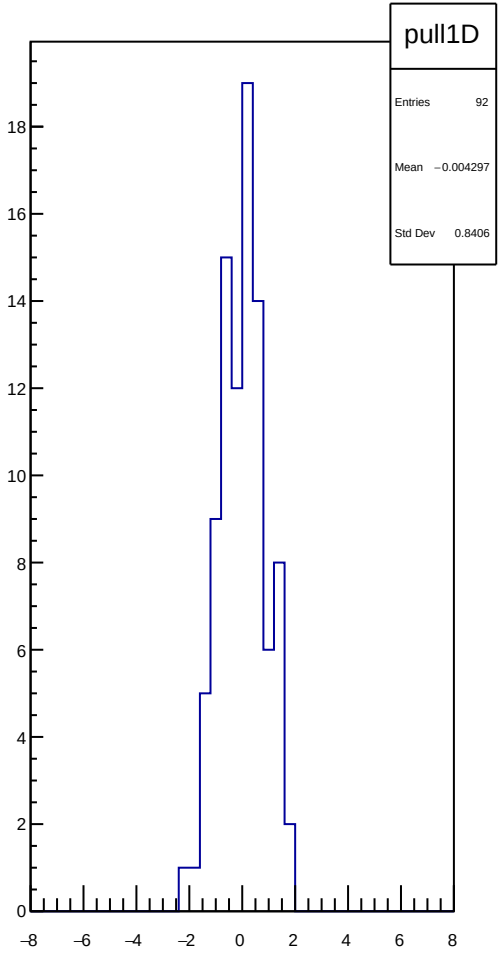

pull1D
Entries 92
Mean 0.02366
Std Dev 0.8813

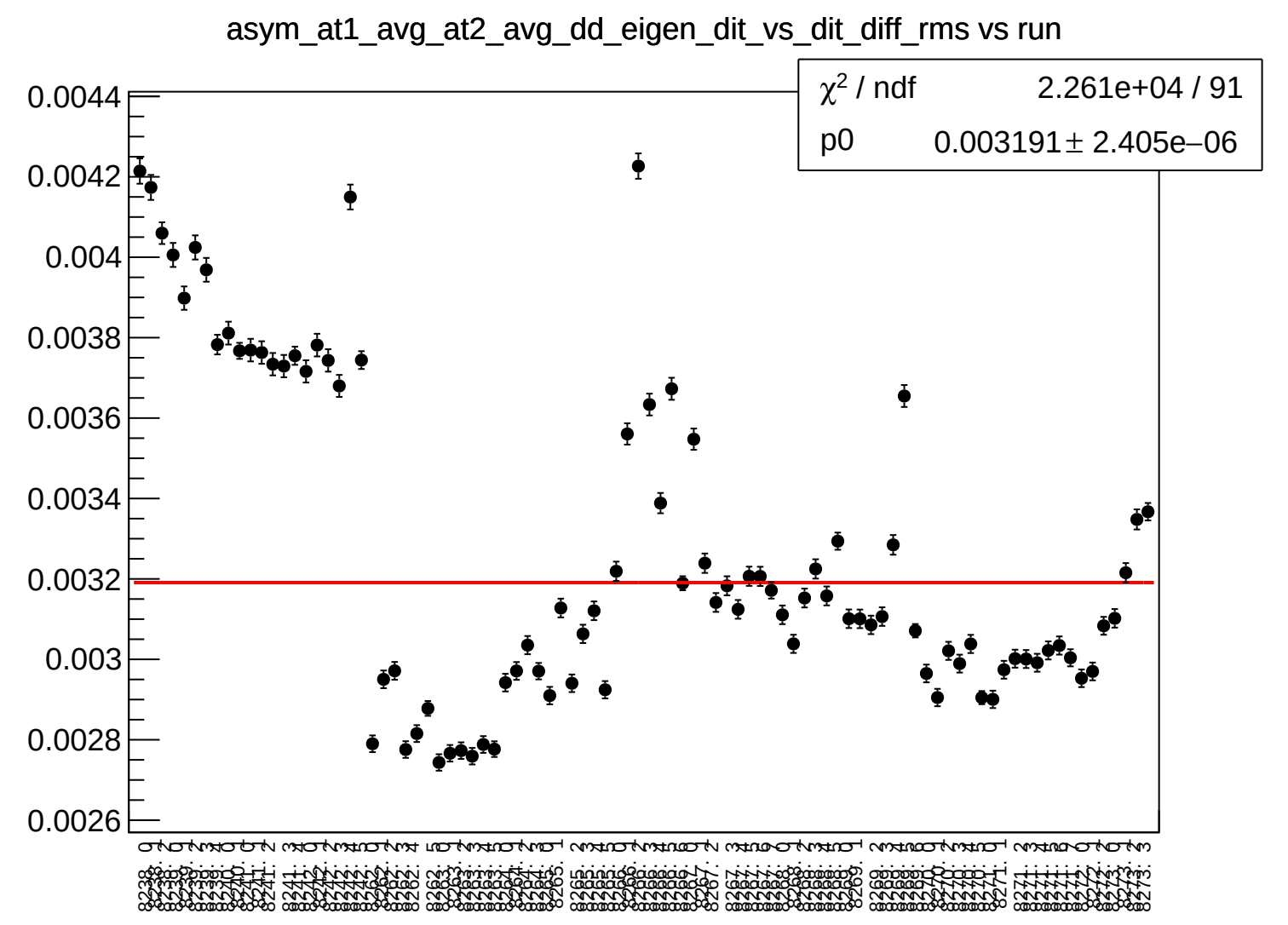

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.797e+04 / 91
p0 138.7 ± 0.1056
240
220
200
180
160
140
120
100
80

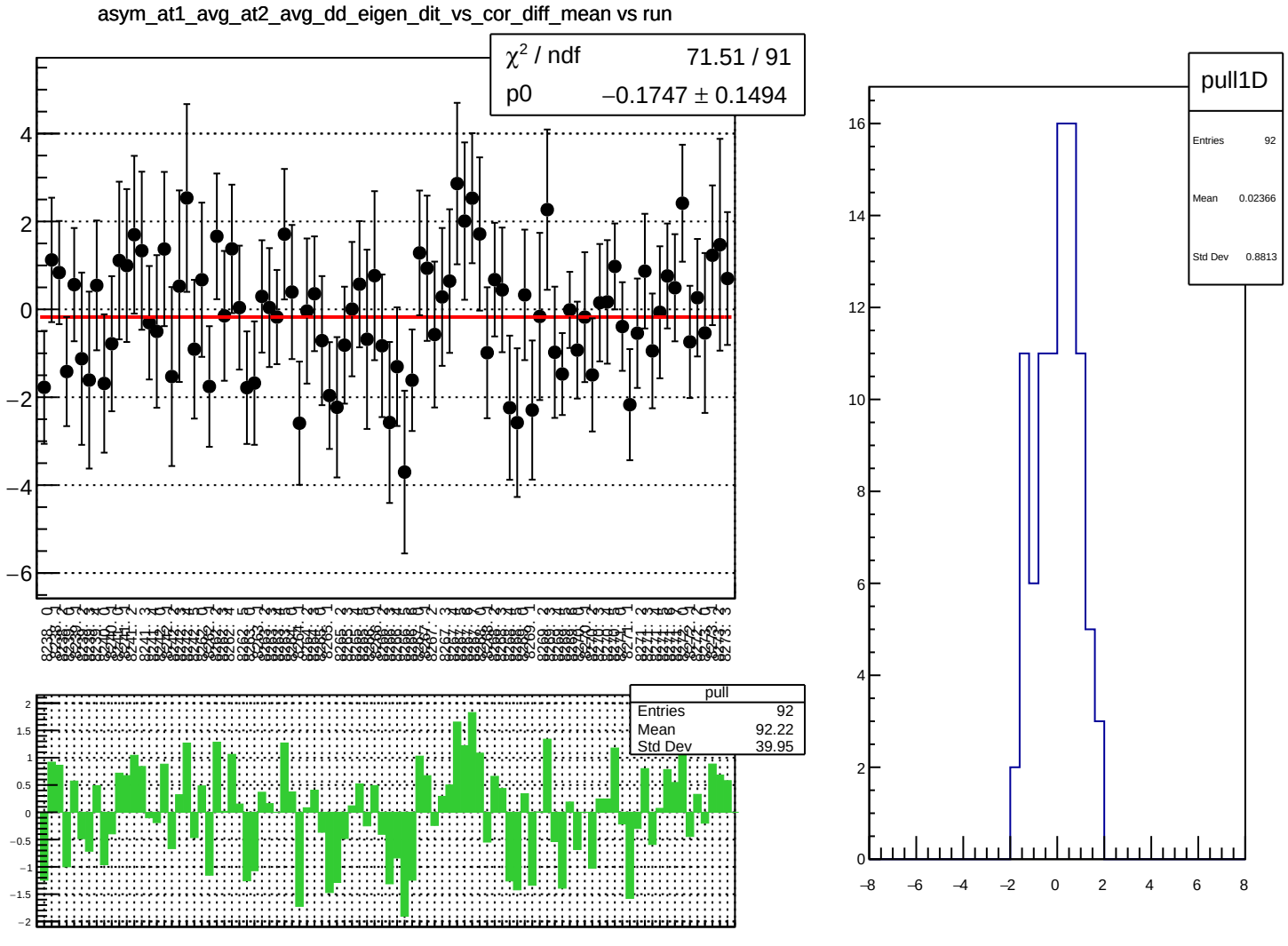

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.51 / 91
p0 −0.1747 ± 0.1494
pull
Entries 92
Mean 92.22
Std Dev 39.95
pull1D
Entries 92
Mean 0.02366
Std Dev 0.8813

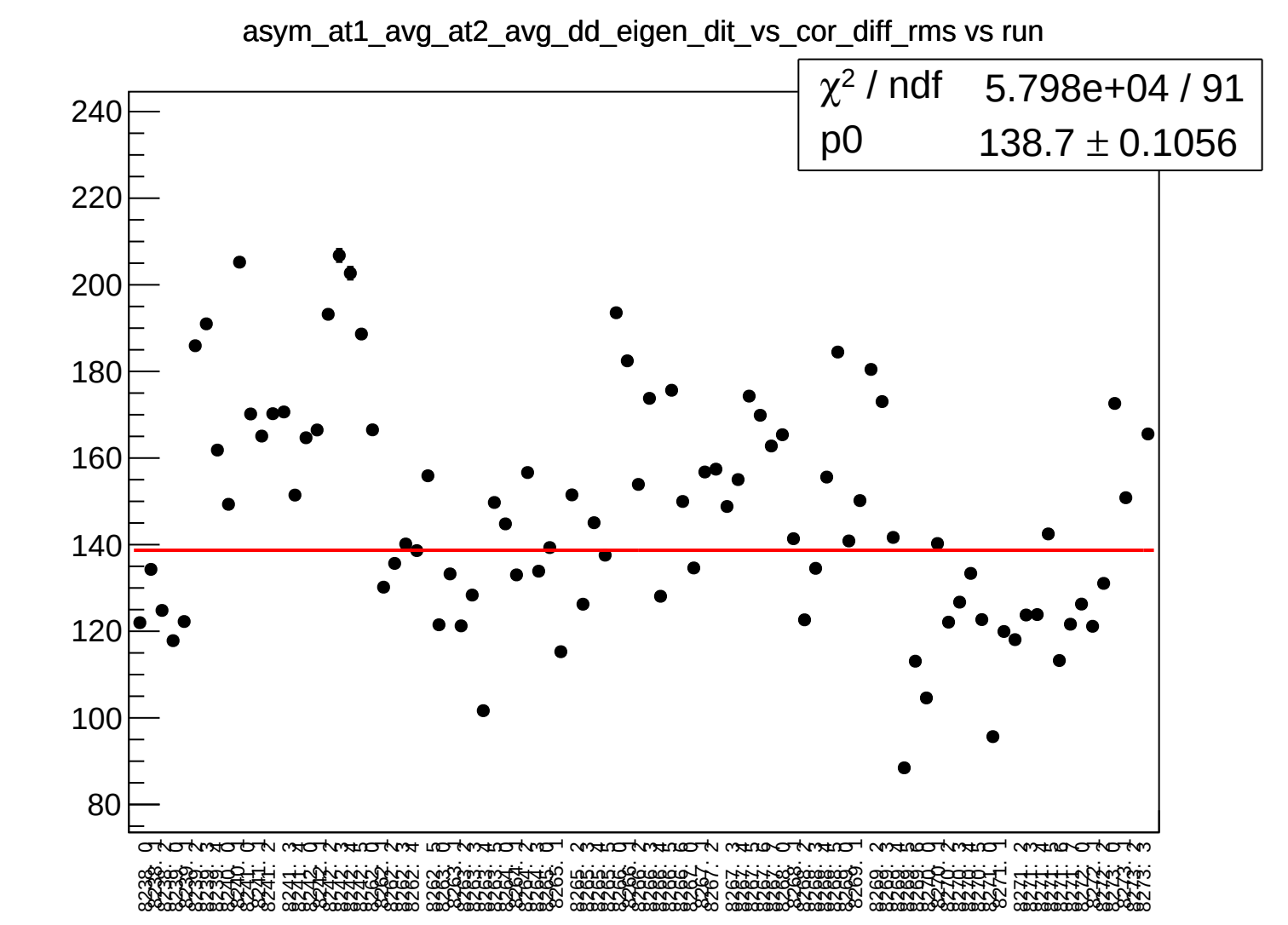

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.797e+04 / 91
p0 138.7 ± 0.1056
240
220
200
180
160
140
120
100
80

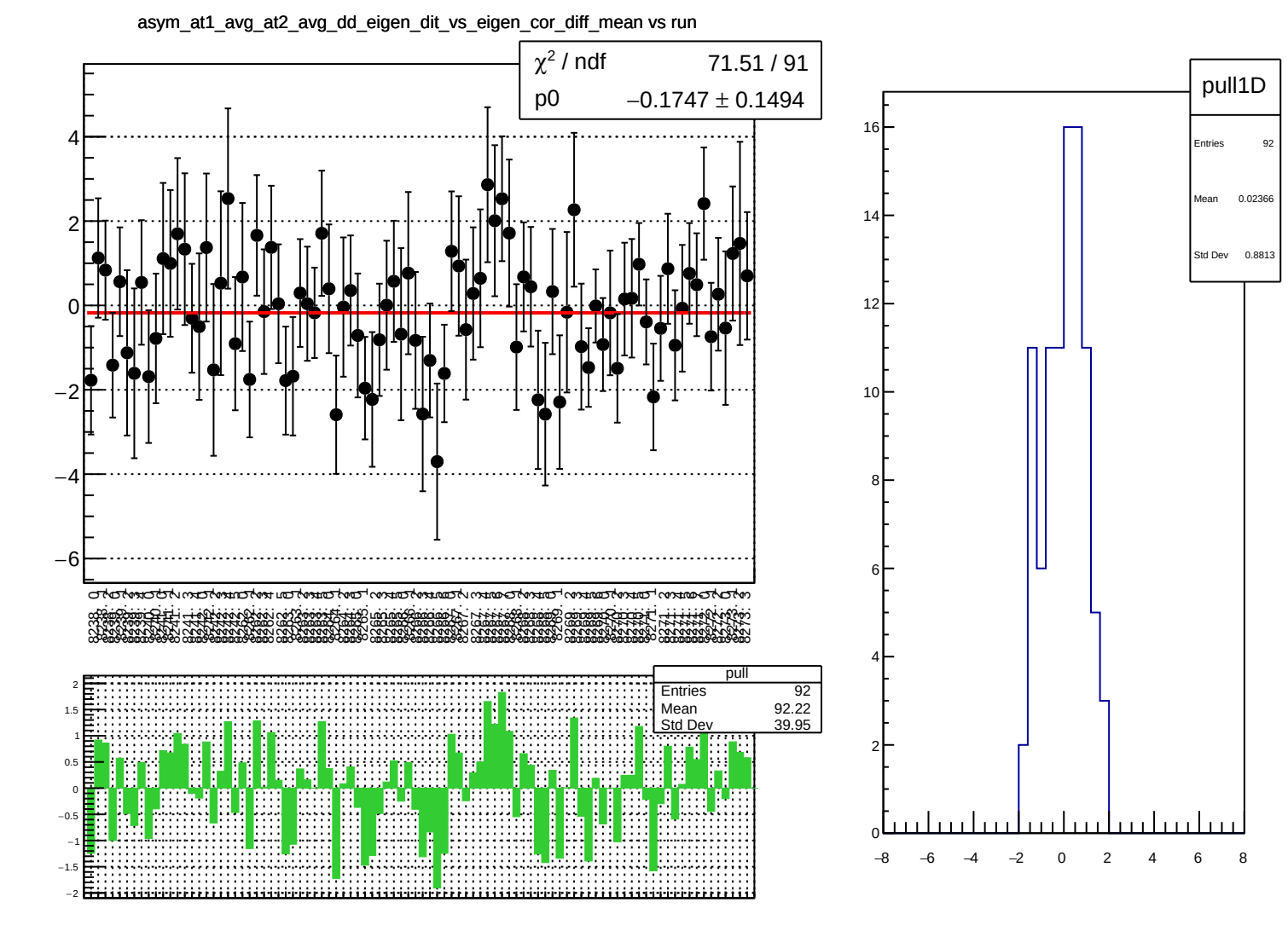

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 65 / 91
p0 8.678e−06 ± 3.401e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean 259.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

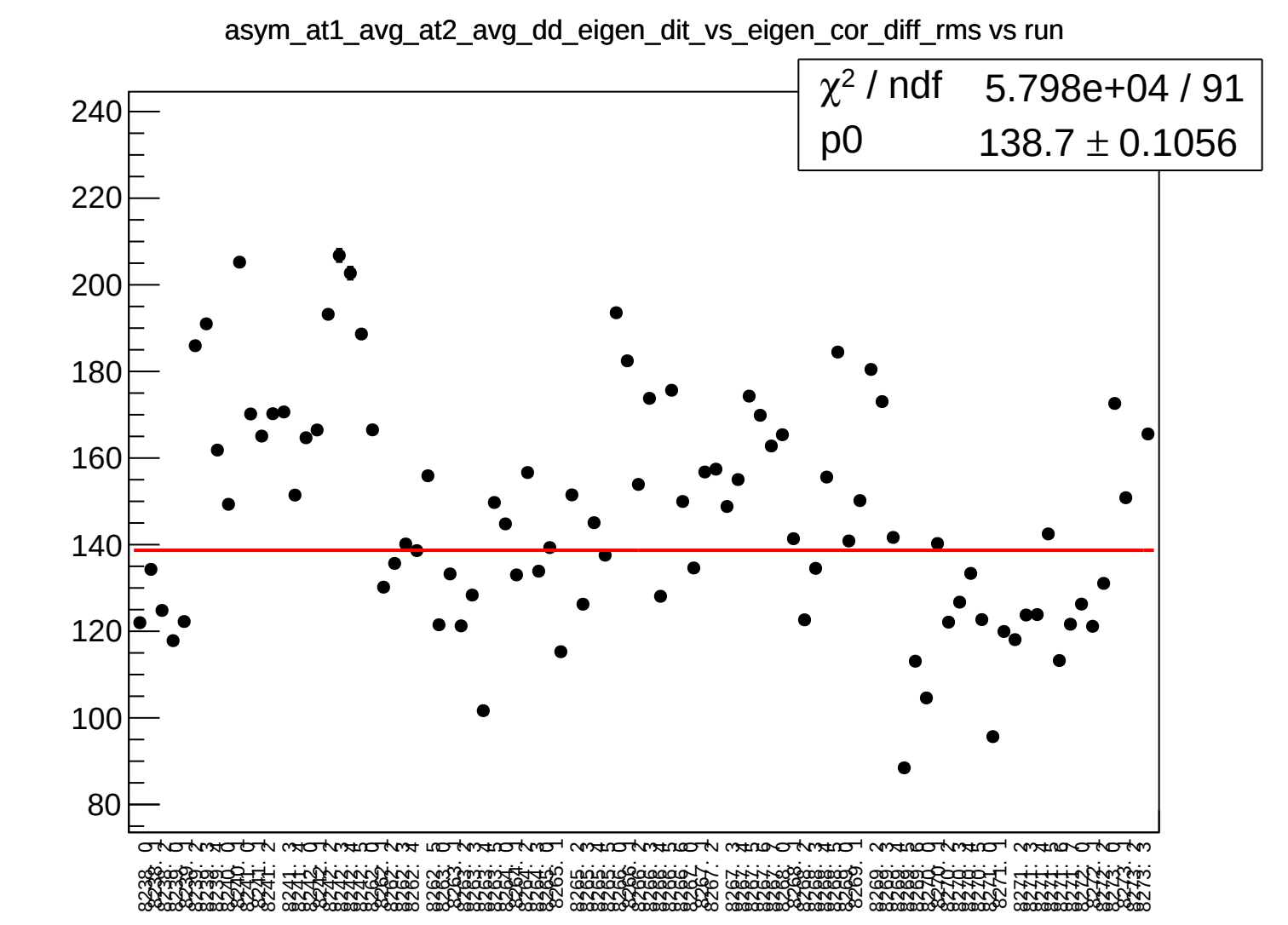

pull1D
Entries 92
Mean −0.004297
Std Dev 0.8406
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

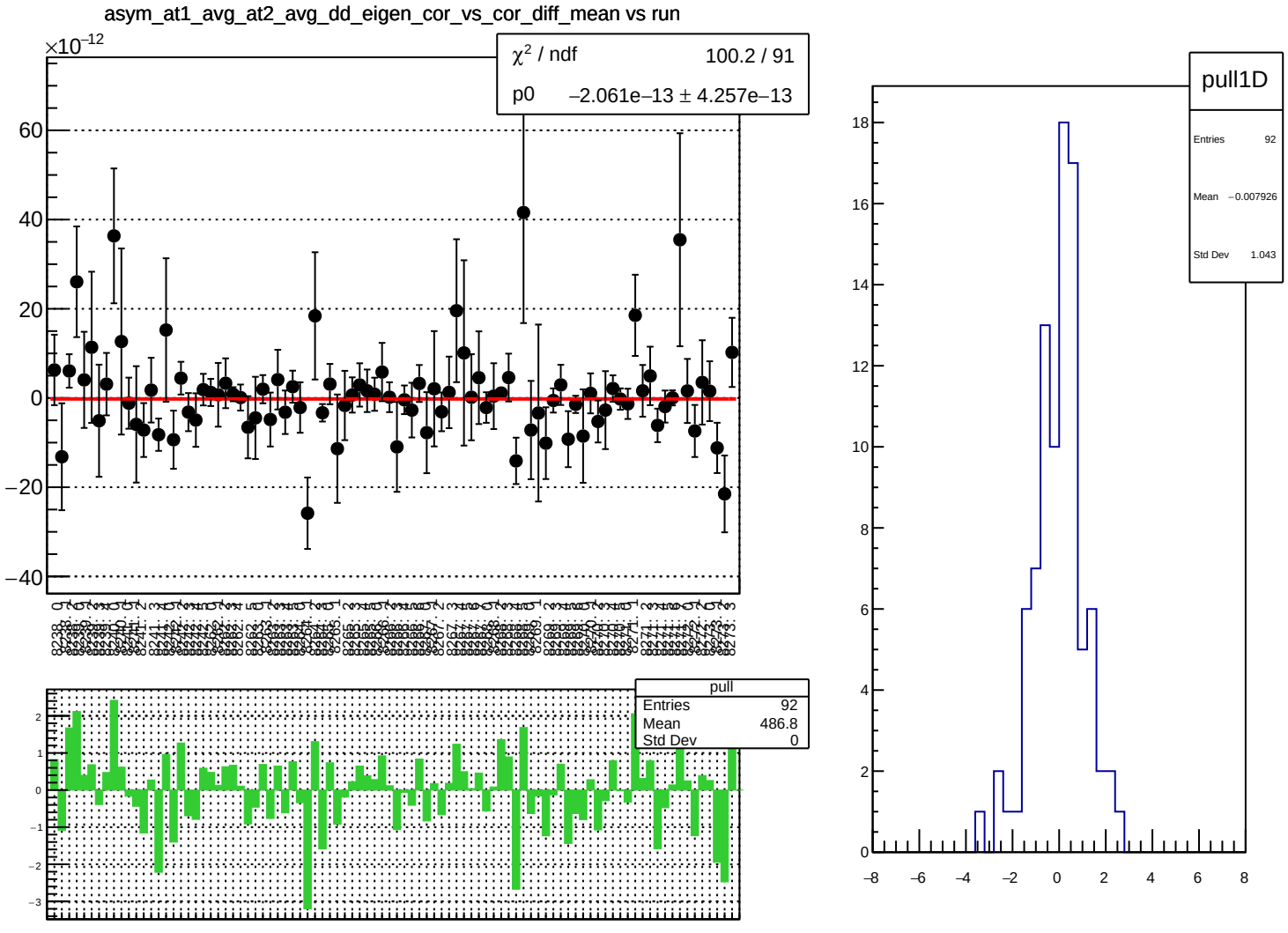

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.261e+04 / 91
p0 0.003191 ± 2.405e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

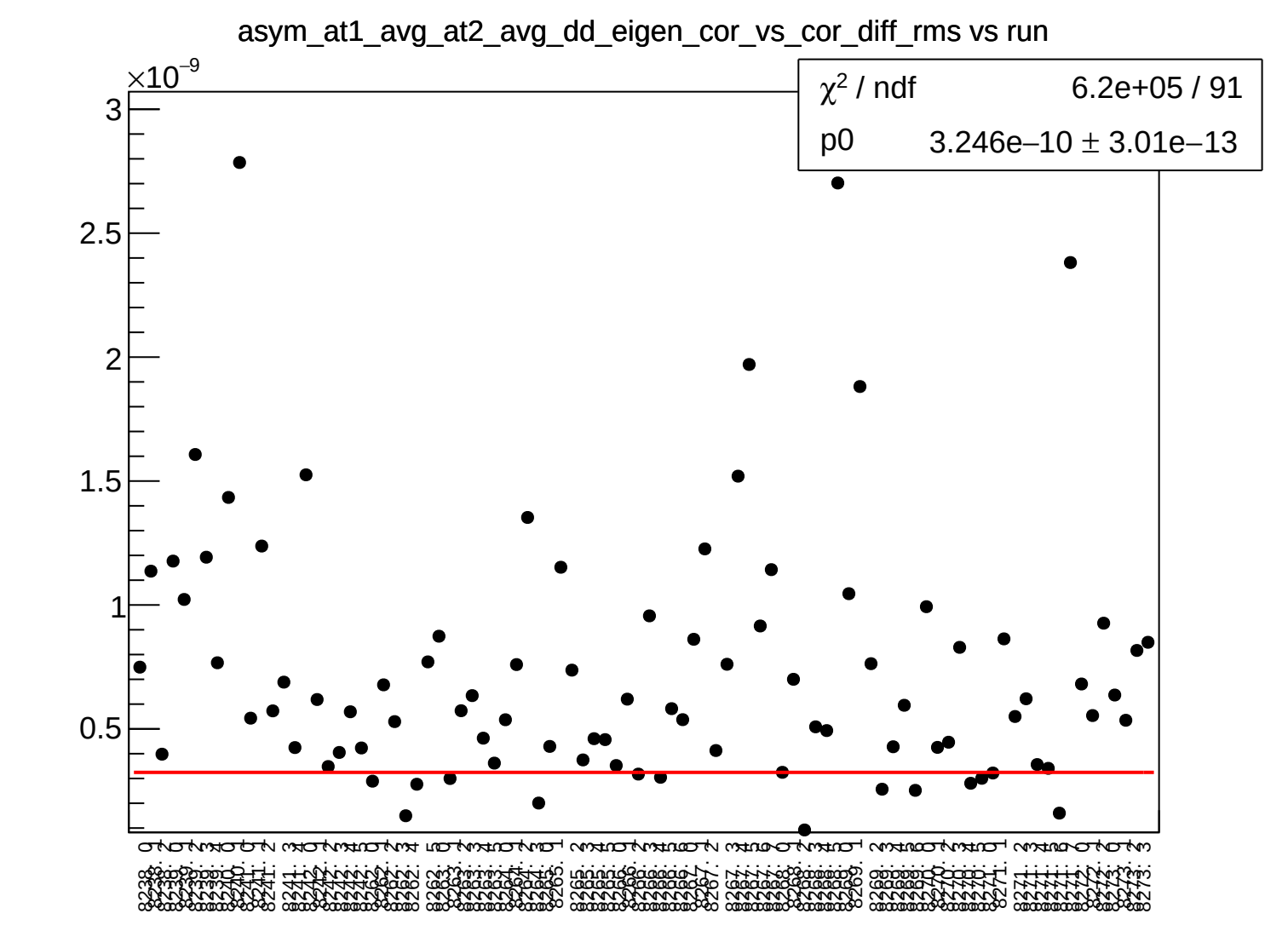

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.51 / 91
p0 −0.1747 ± 0.1494
pull
Entries 92
Mean 92.22
Std Dev 39.95
pull1D
Entries 92
Mean 0.02366
Std Dev 0.8813

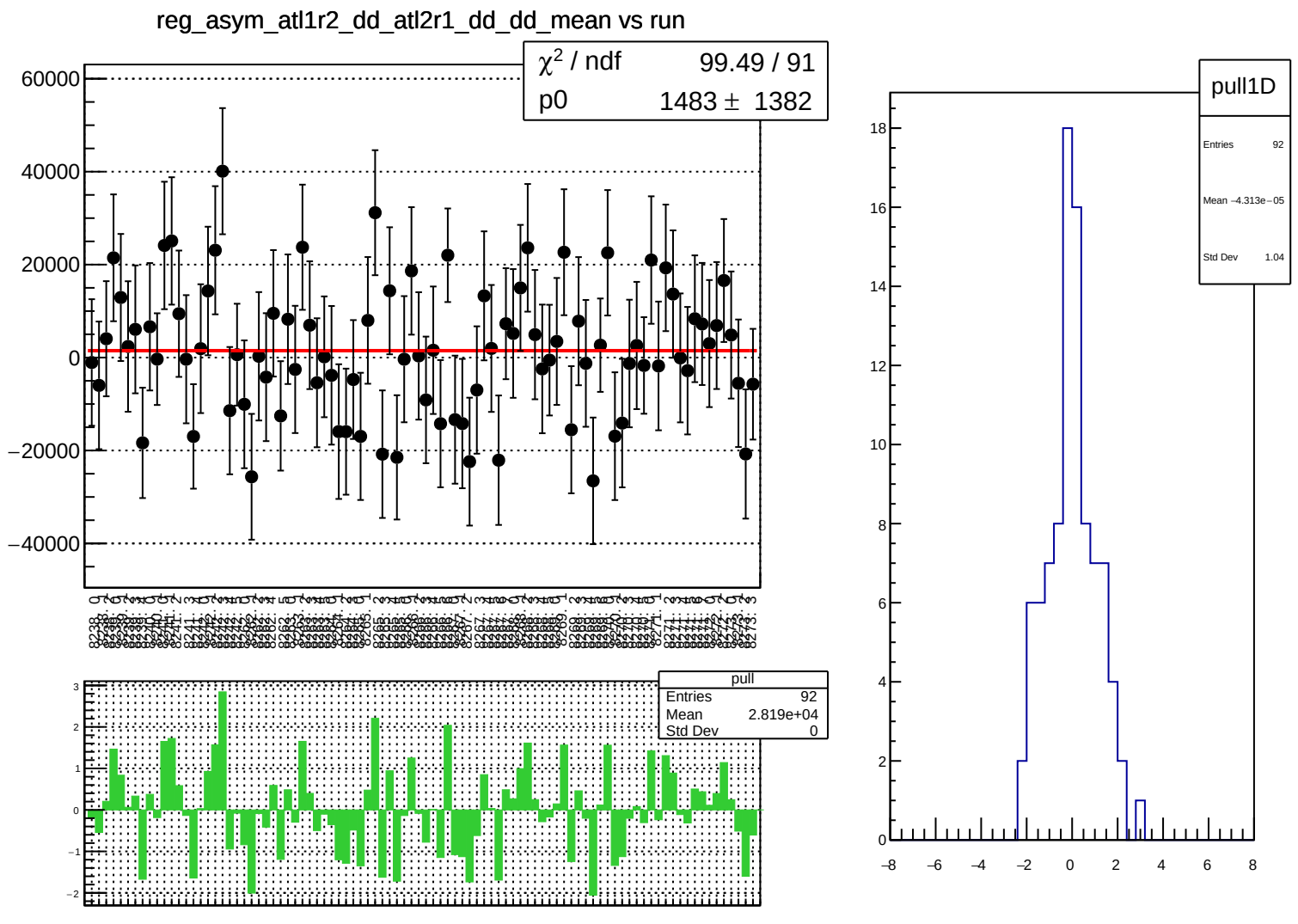

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.798e+04 / 91
p0 138.7 ± 0.1056
240
220
200
180
160
140
120
100
80

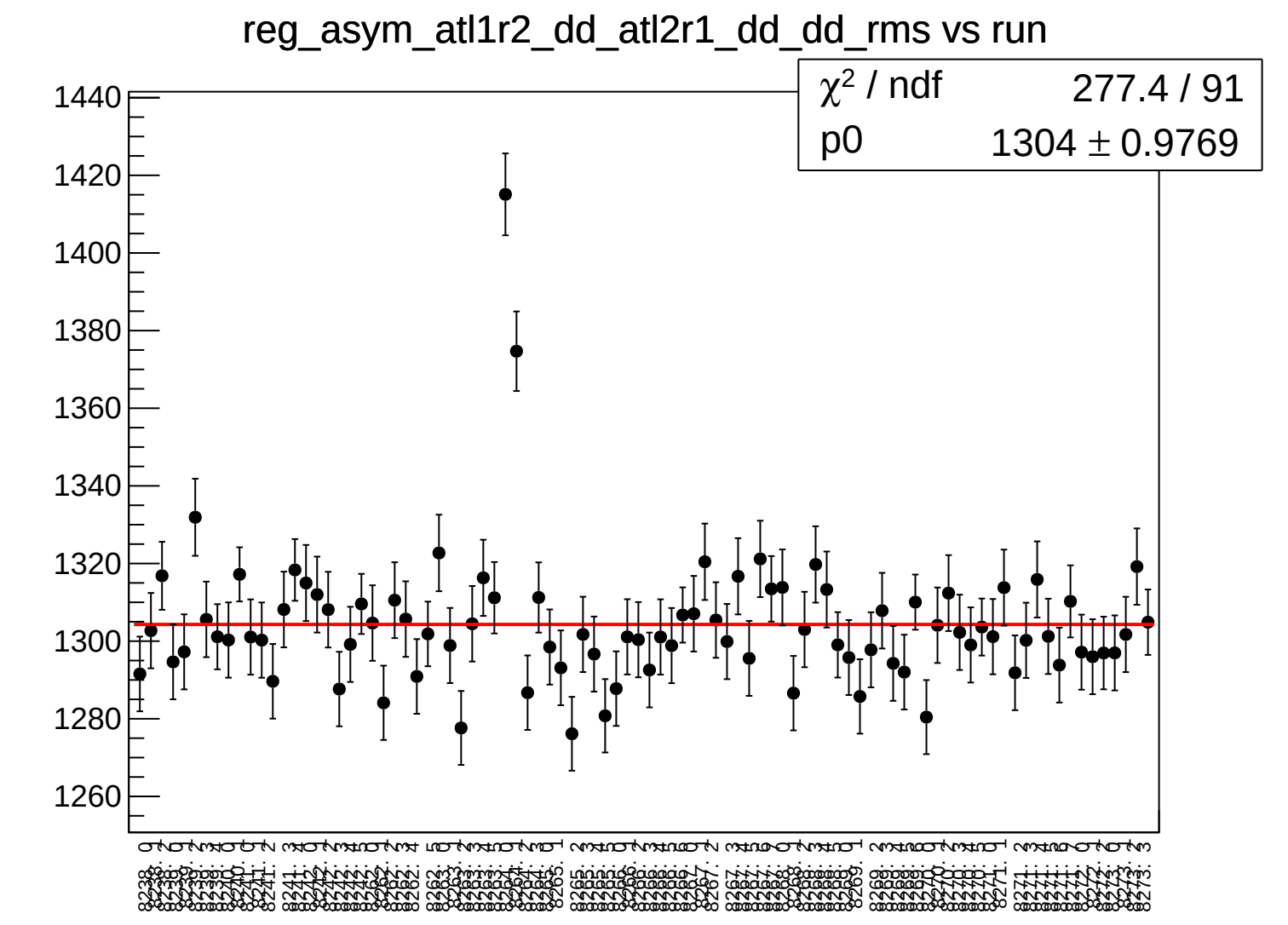

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.51 / 91
p0 −0.1747 ± 0.1494
pull
Entries 92
Mean 92.22
Std Dev 39.95
pull1D
Entries 92
Mean 0.02366
Std Dev 0.8813

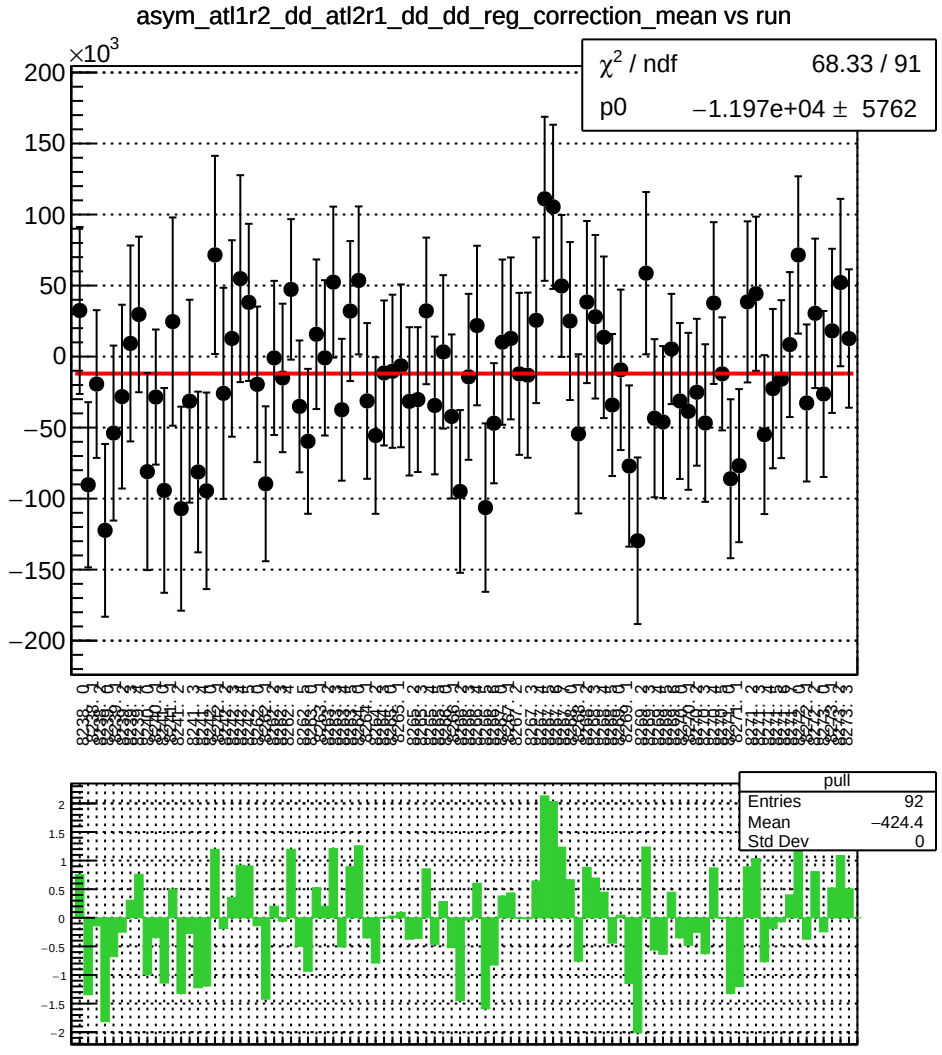

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.798e+04 / 91
p0 138.7 ± 0.1056
240
220
200
180
160
140
120
100
80

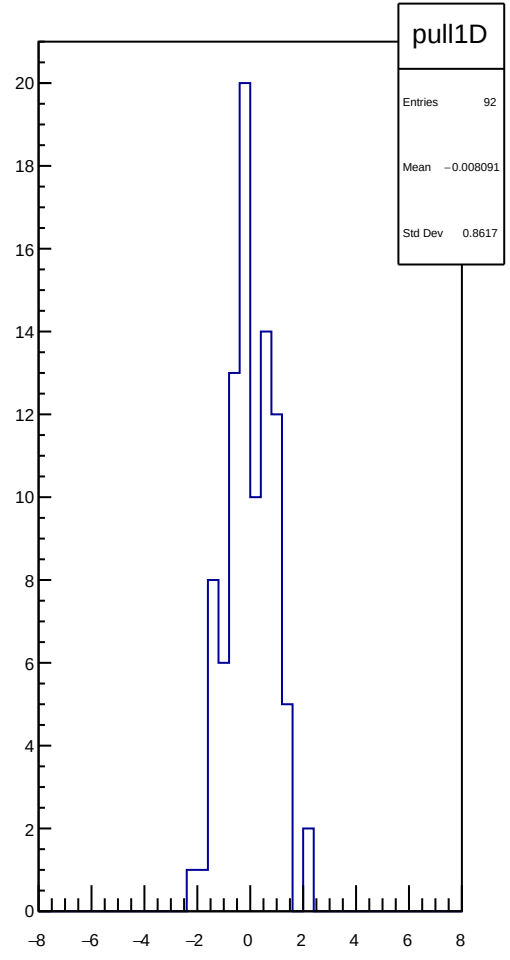

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 100.2 / 91
p0 −2.061e−13 ± 4.257e−13
60
40
20
0
−20
−40
pull
Entries 92
Mean 486.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.007926
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

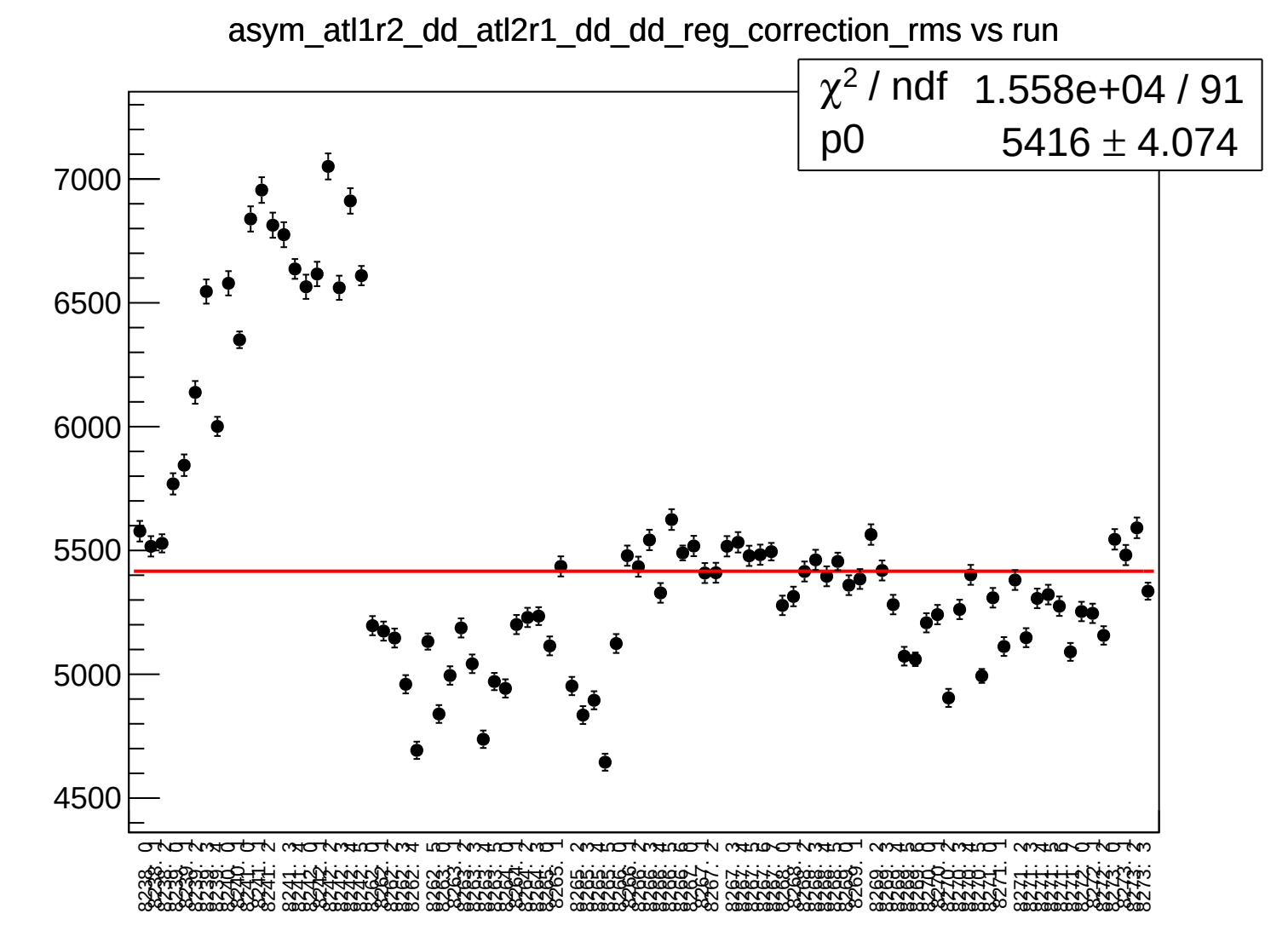

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.2e+05 / 91
p0 3.246e−10 ± 3.01e−13
3
2.5
2
1.5
1
0.5

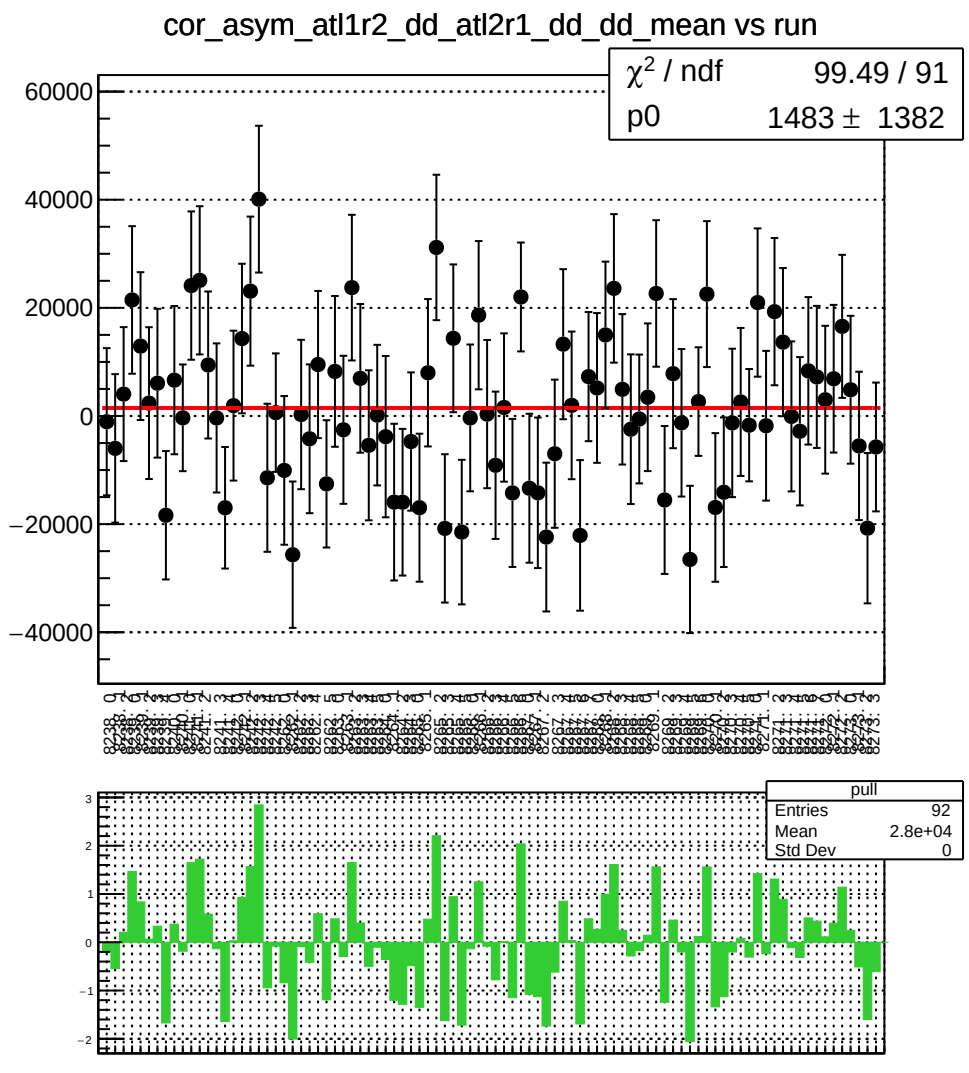

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 99.49 / 91
p0 1483 ± 1382
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 2.819e+04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −4.313e−05
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

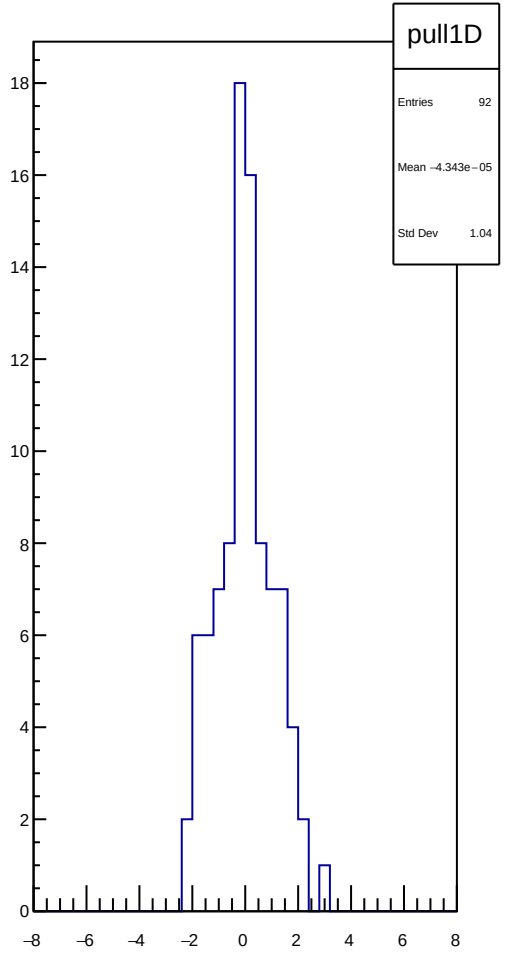

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 277.4 / 91
p0 1304 ± 0.9769
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

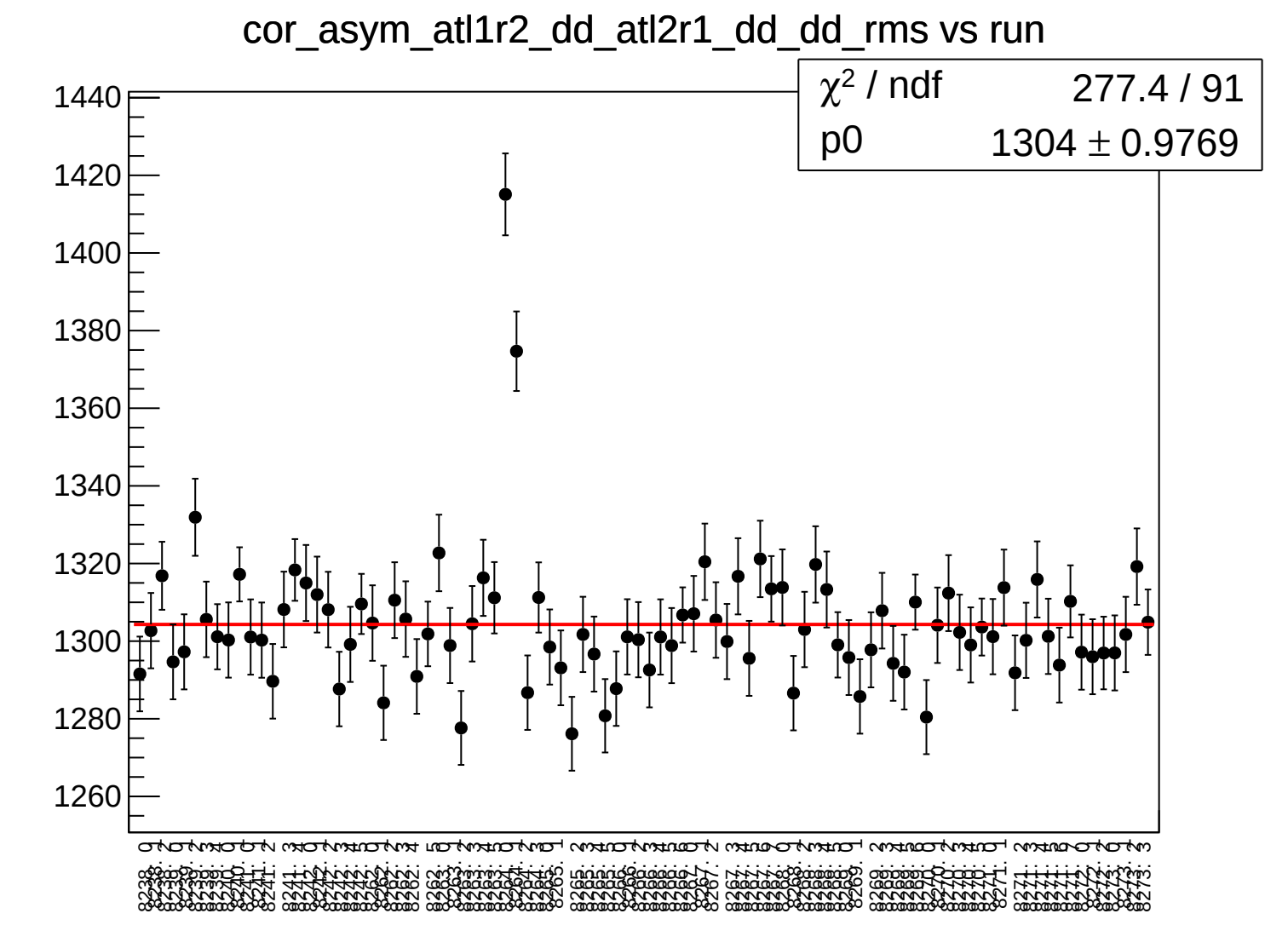

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 68.33 / 91
p0 −1.197e+04 ± 5762
pull
Entries 92
Mean −424.4
Std Dev 0

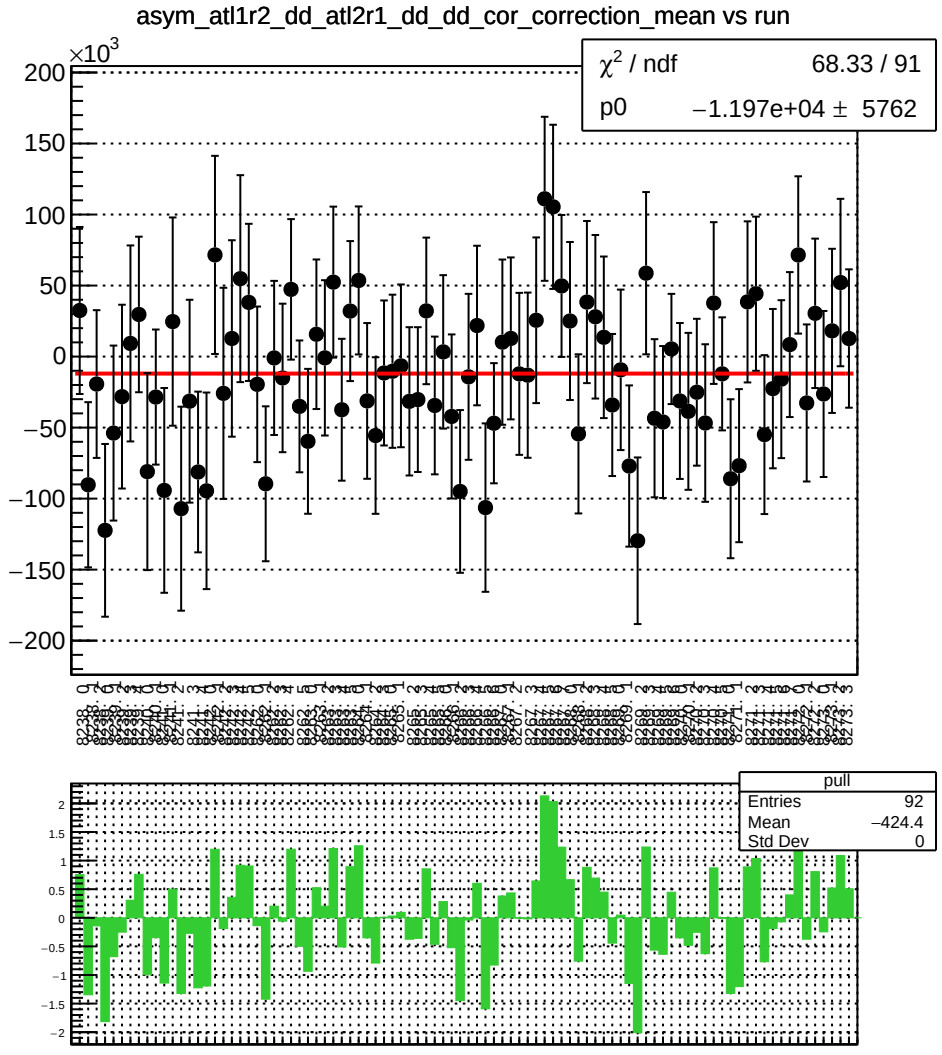

pull1D
Entries 92
Mean −0.008091
Std Dev 0.8617

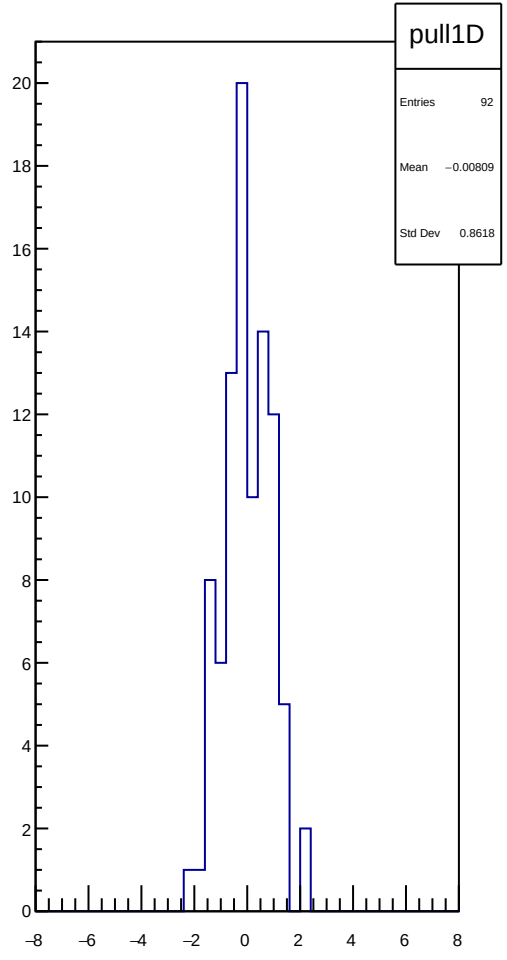

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 1.558e+04 / 91
p0 5416 ± 4.074
7000
6500
6000
5500
5000
4500

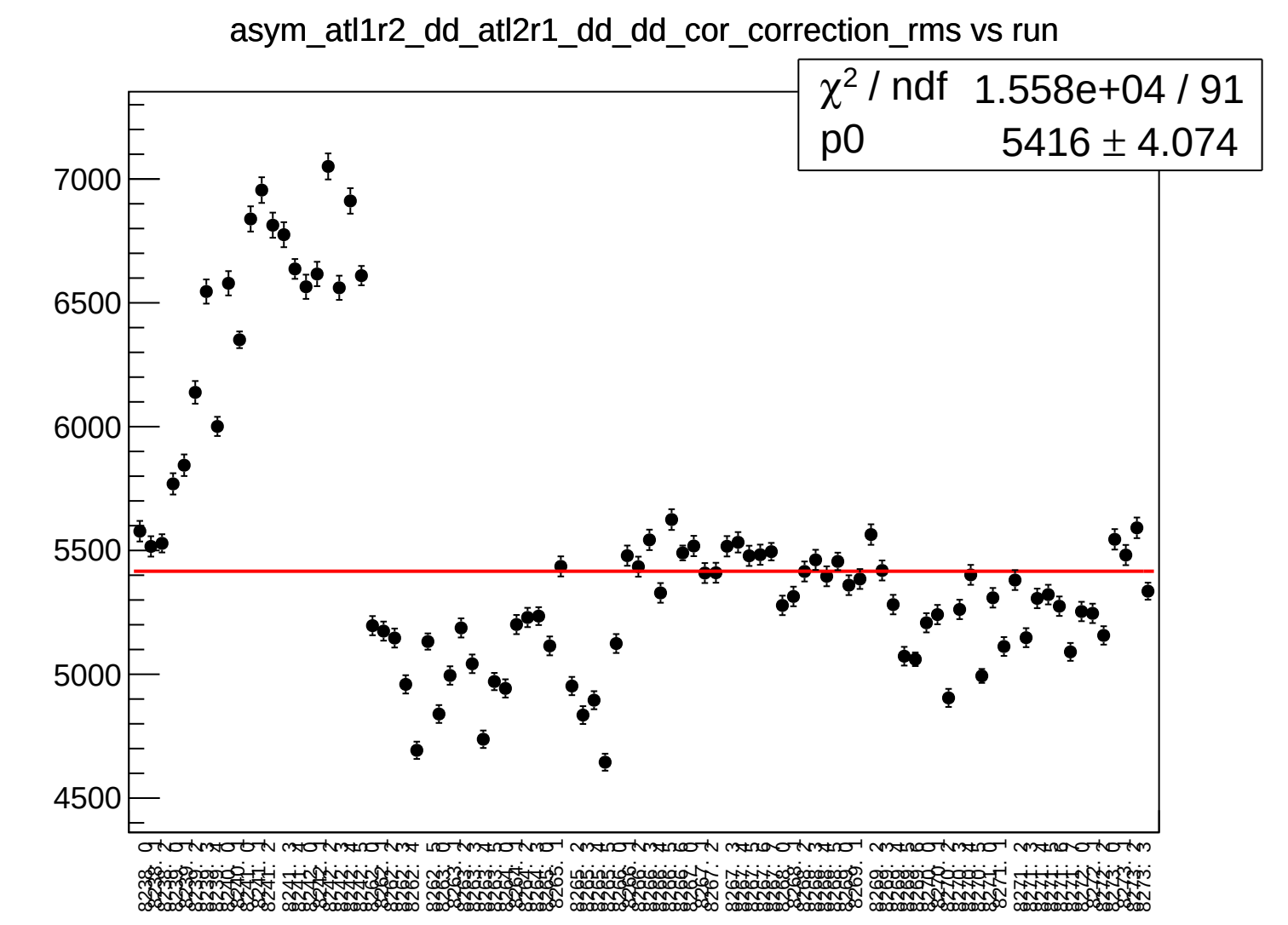

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 99.49 / 91
p0 1483 ± 1382
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 2.8e+04
Std Dev 0
3
2
1
0
−1
−2

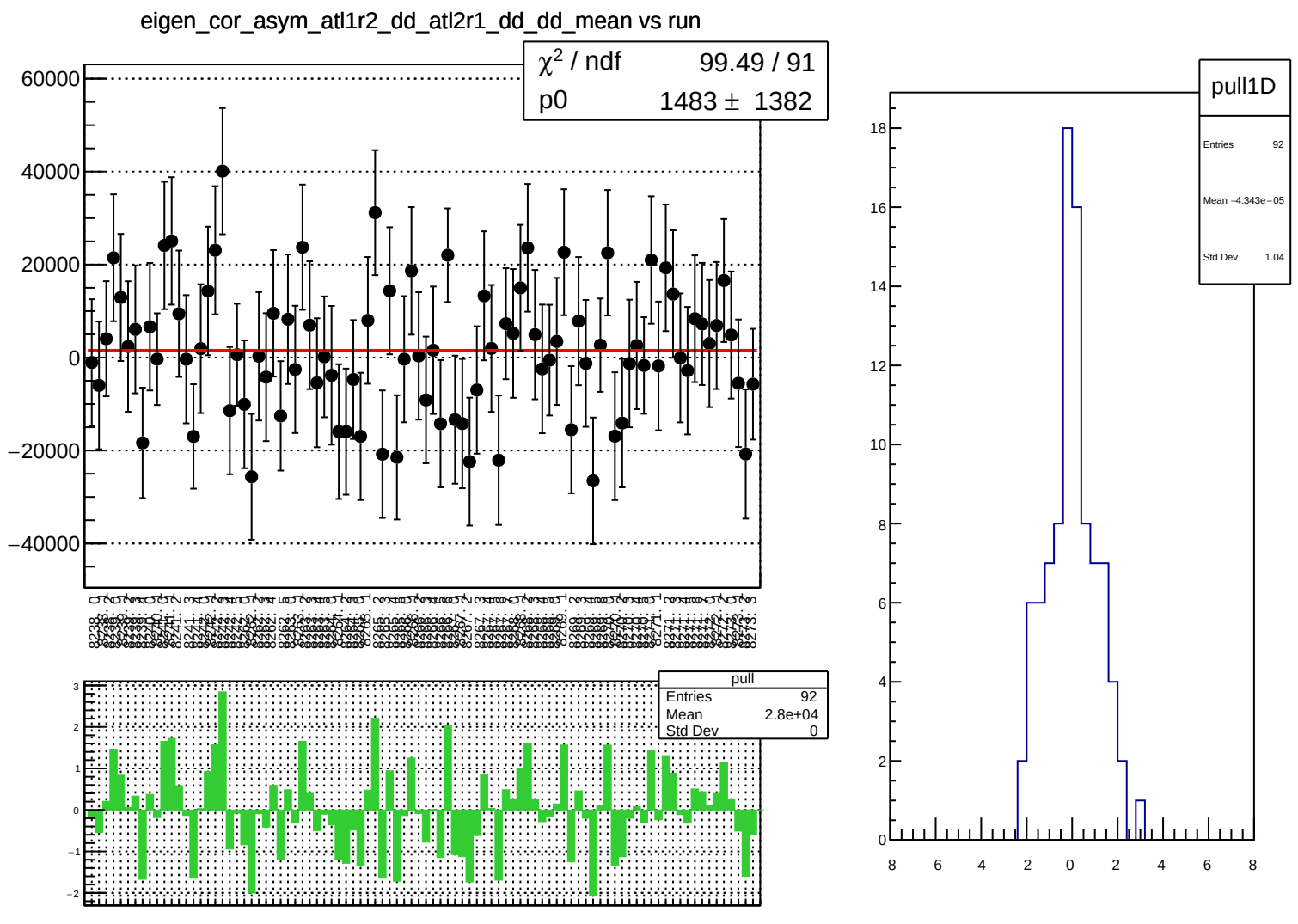

pull1D
Entries 92
Mean −4.343e−05
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

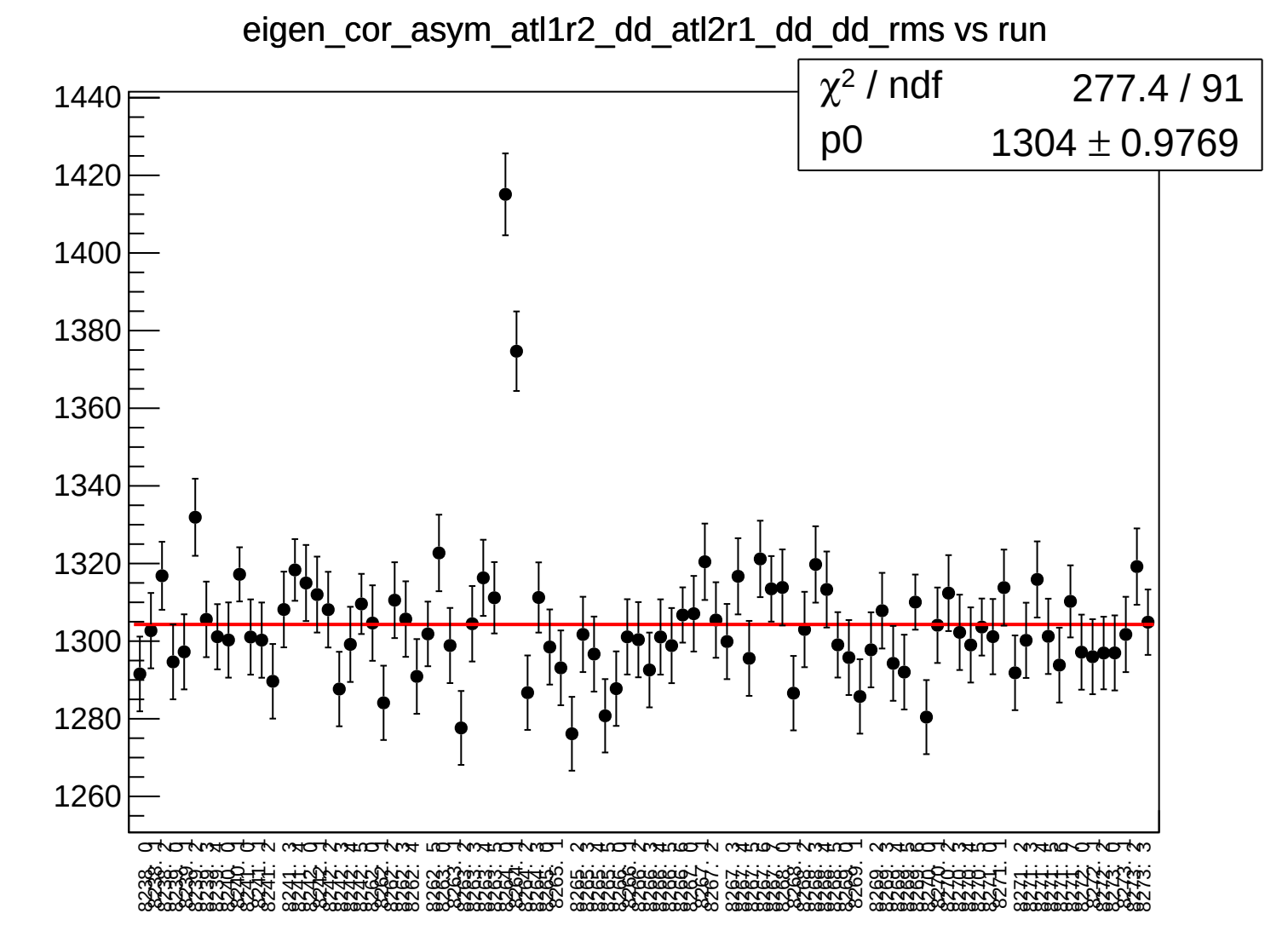

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 277.4 / 91
p0 1304 ± 0.9769
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

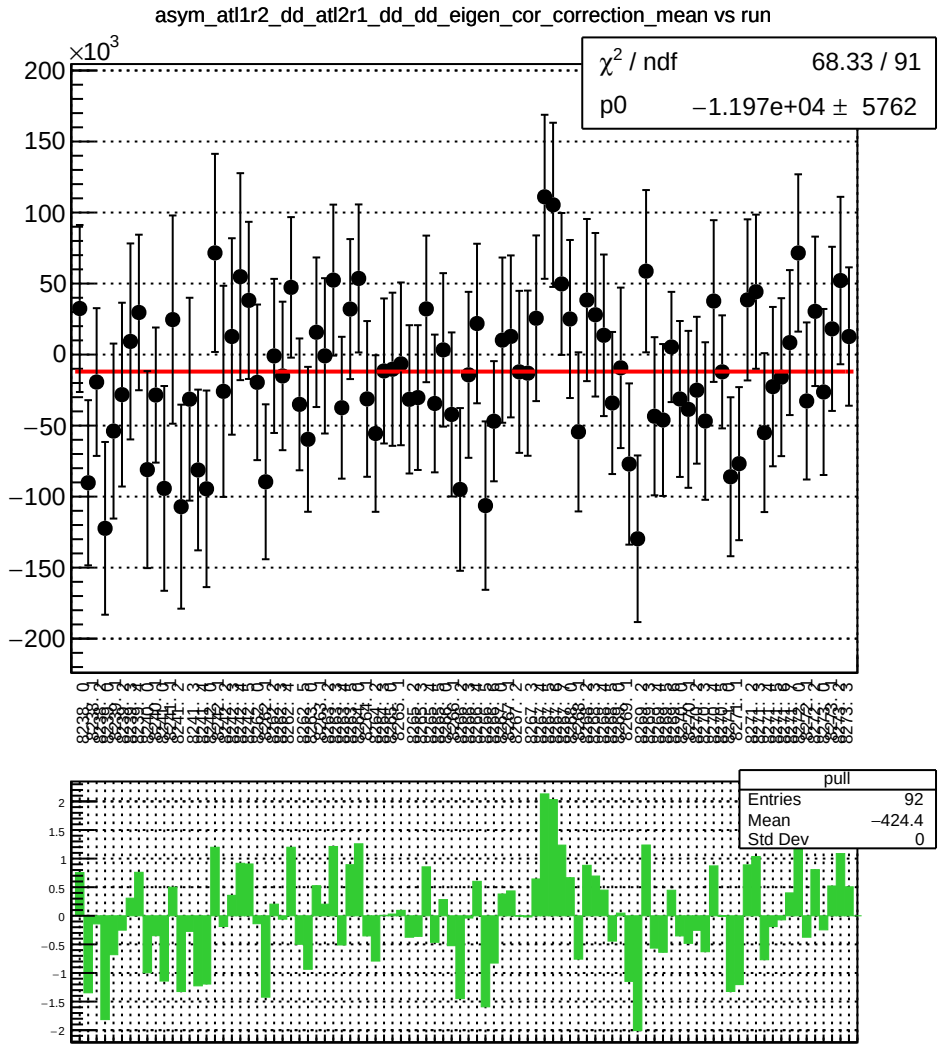

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 68.33 / 91
p0 −1.197e+04 ± 5762
pull
Entries 92
Mean −424.4
Std Dev 0

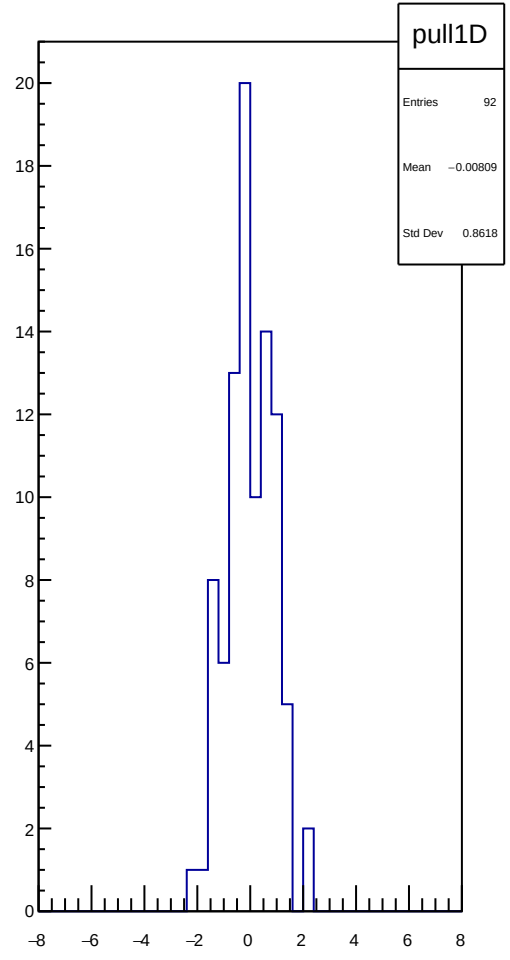

pull1D
Entries 92
Mean −0.00809
Std Dev 0.8618

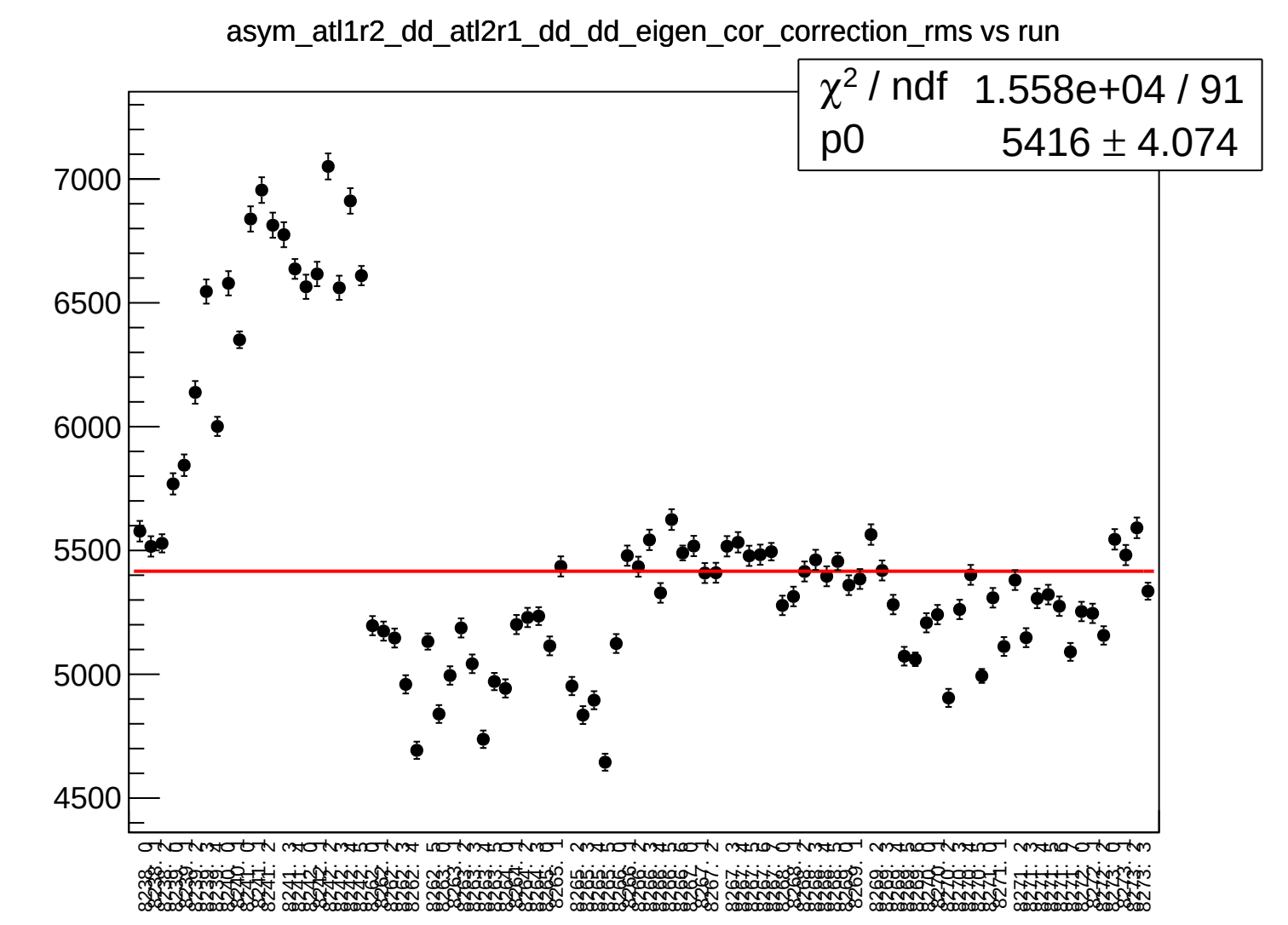

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 1.558e+04 / 91
p0 5416 ± 4.074
7000
6500
6000
5500
5000
4500

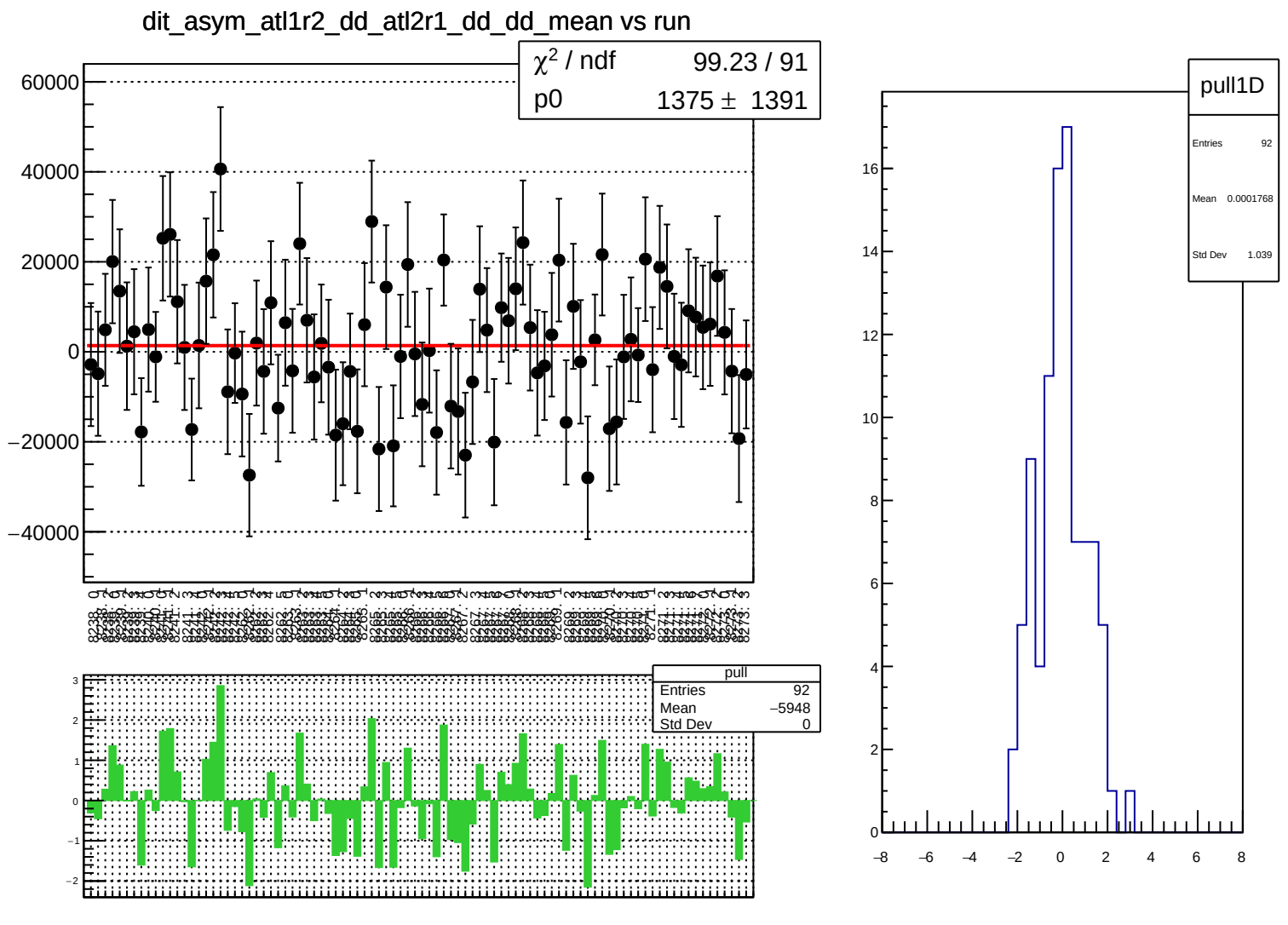

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 99.49 / 91
p0 1483 ± 1382
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 2.8e+04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −4.343e−05
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

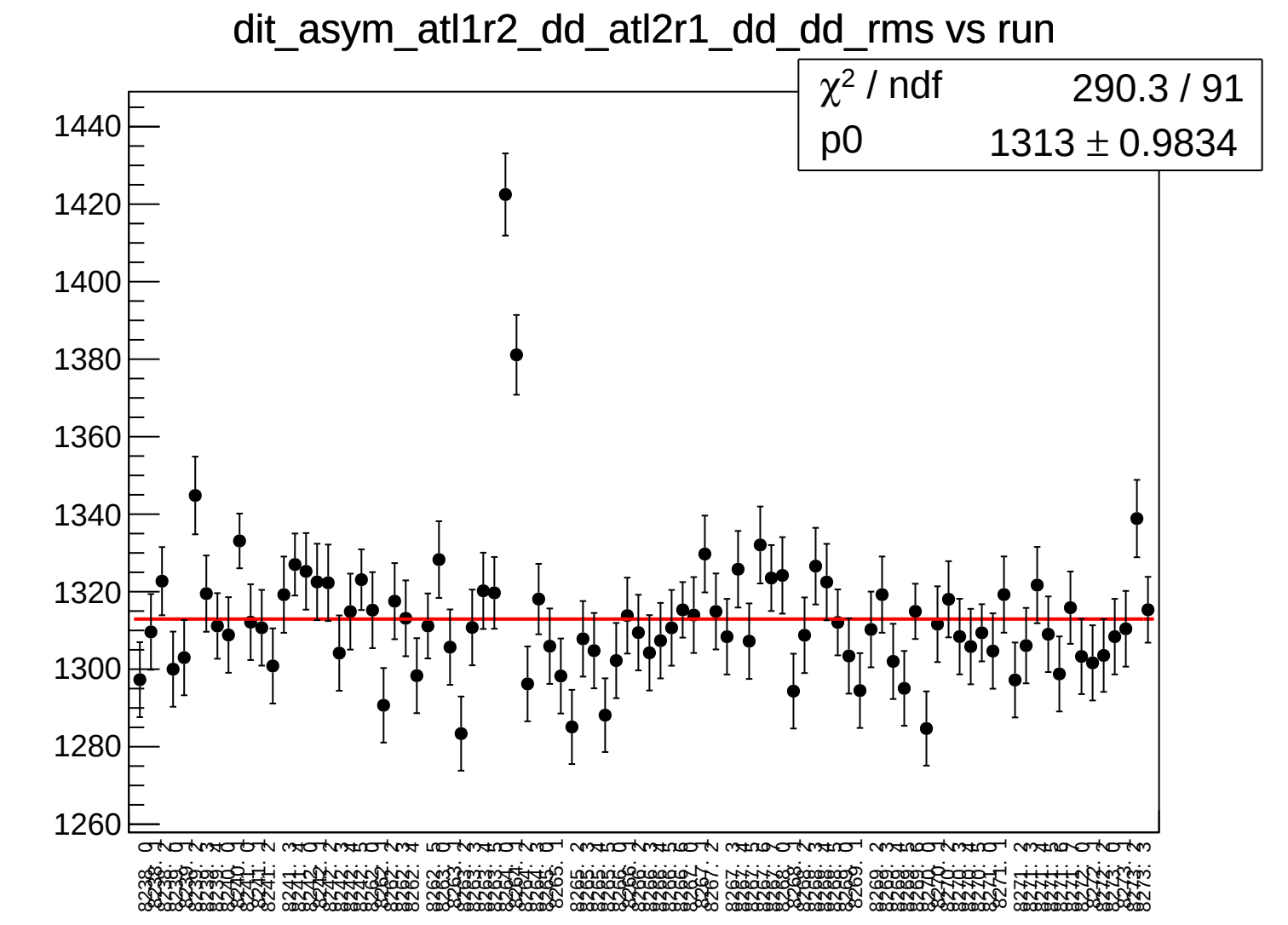

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 277.4 / 91
p0 1304 ± 0.9769
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

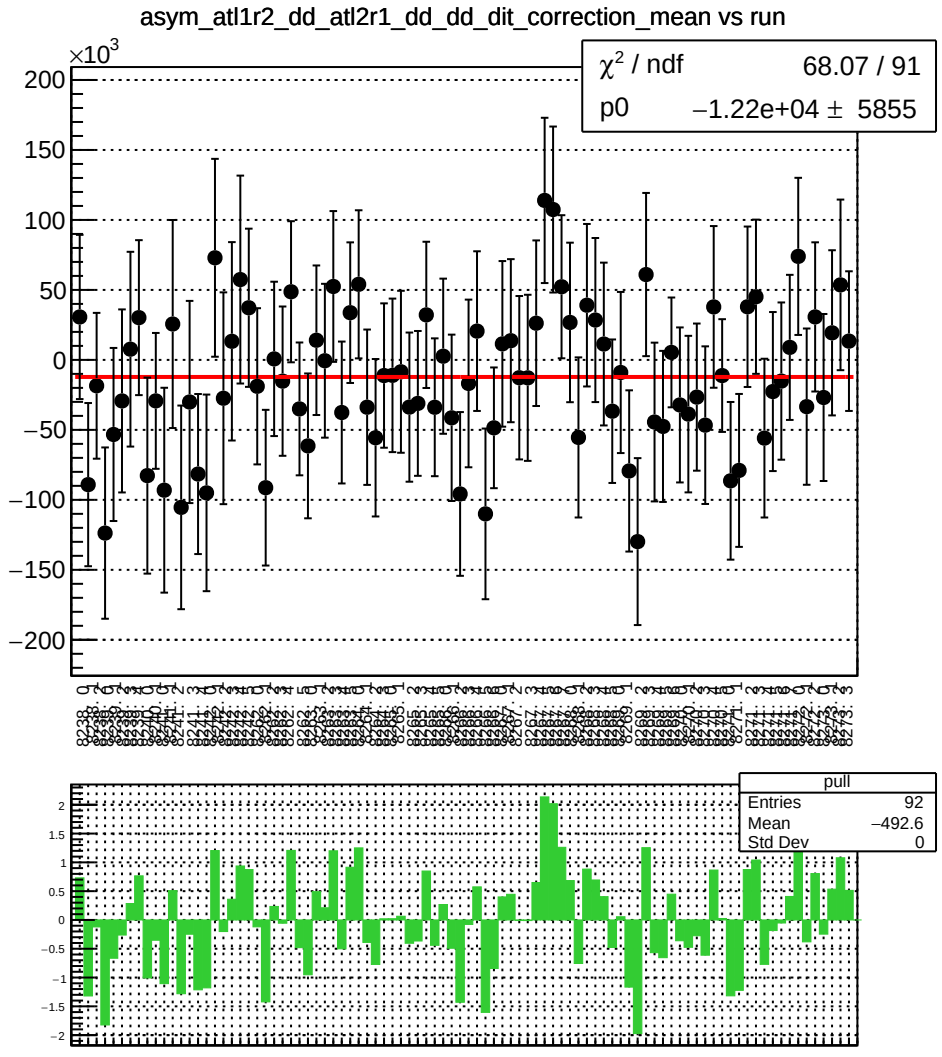

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 68.33 / 91
p0 −1.197e+04 ± 5762
pull
Entries 92
Mean −424.4
Std Dev 0

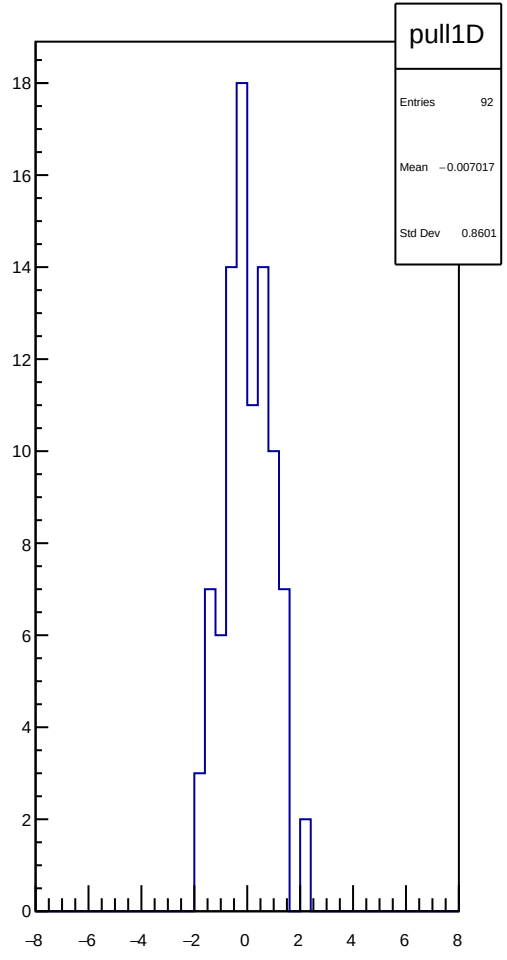

pull1D
Entries 92
Mean −0.00809
Std Dev 0.8618

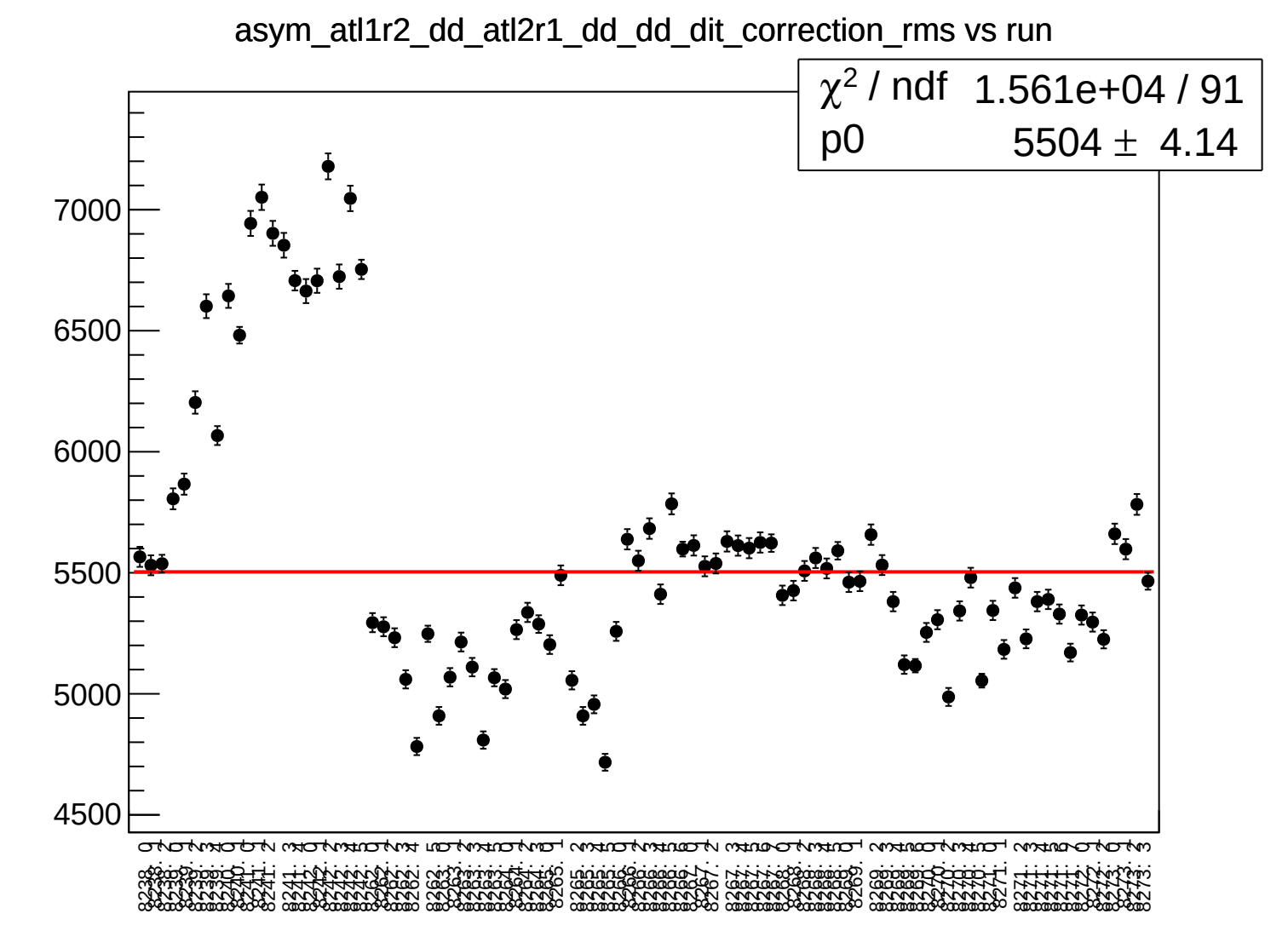

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.558e+04 / 91
p0 5416 ± 4.074
7000
6500
6000
5500
5000
4500

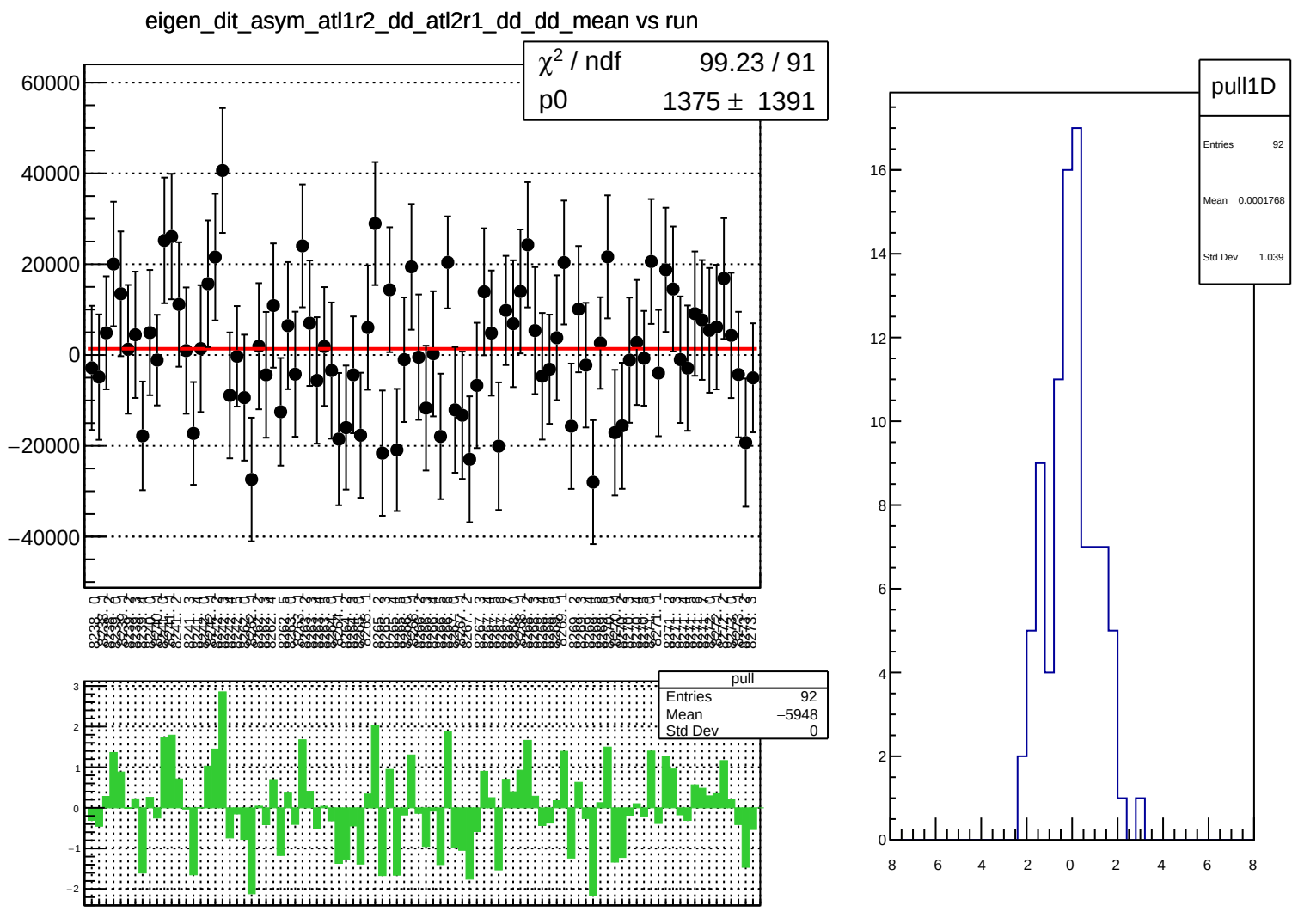

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 99.23 / 91
p0 1375 ± 1391
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −5948
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0001768
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

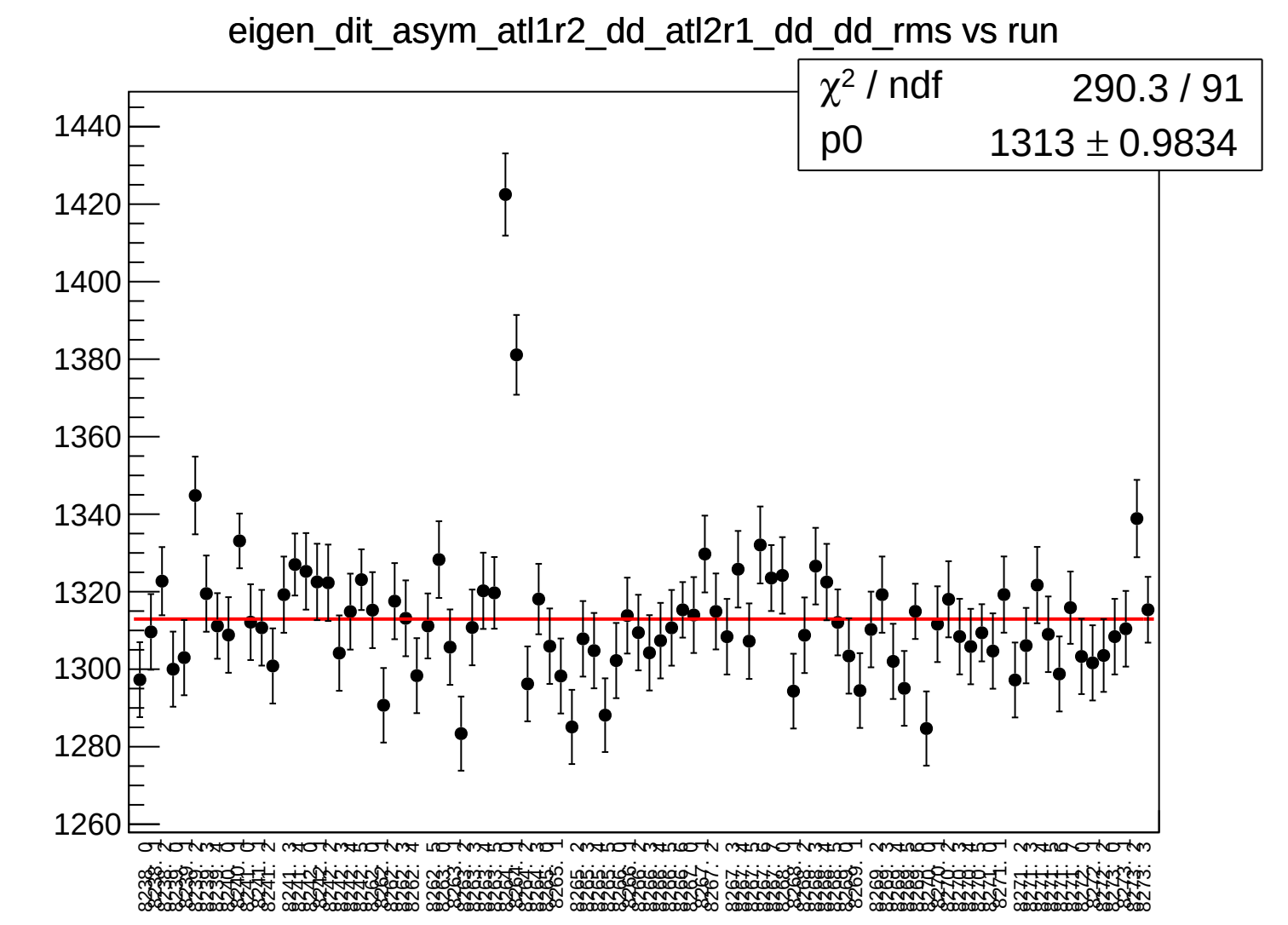

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 290.3 / 91
p0 1313 ± 0.9834
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

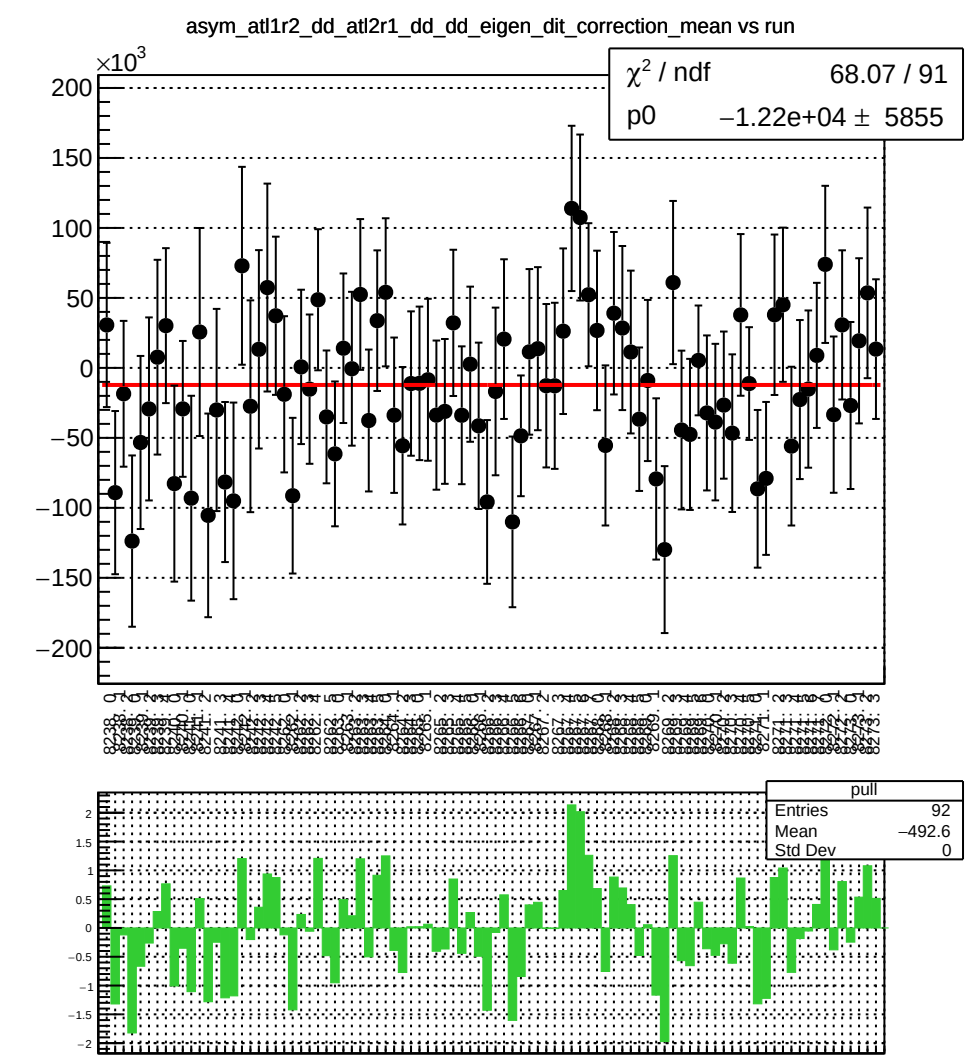

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 68.07 / 91
p0 −1.22e+04 ± 5855
pull
Entries 92
Mean −492.6
Std Dev 0

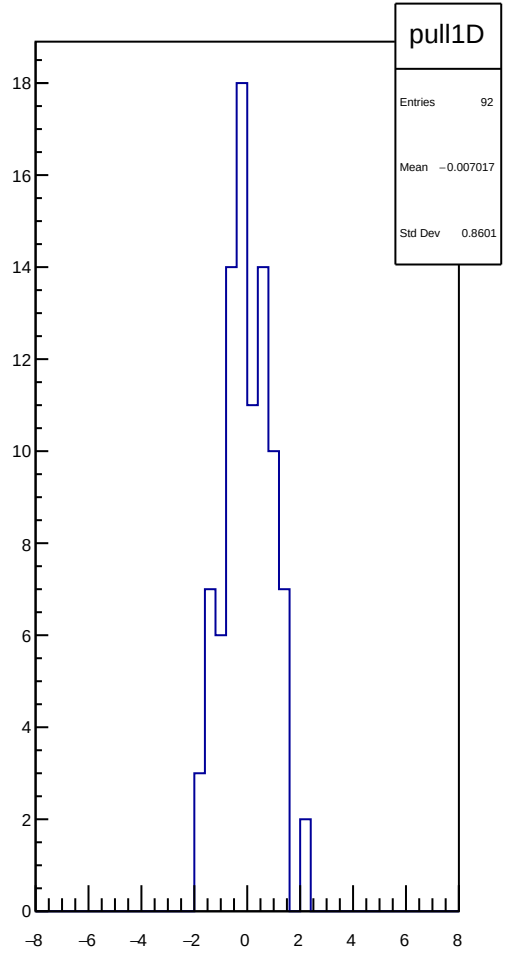

pull1D
Entries 92
Mean −0.007017
Std Dev 0.8601

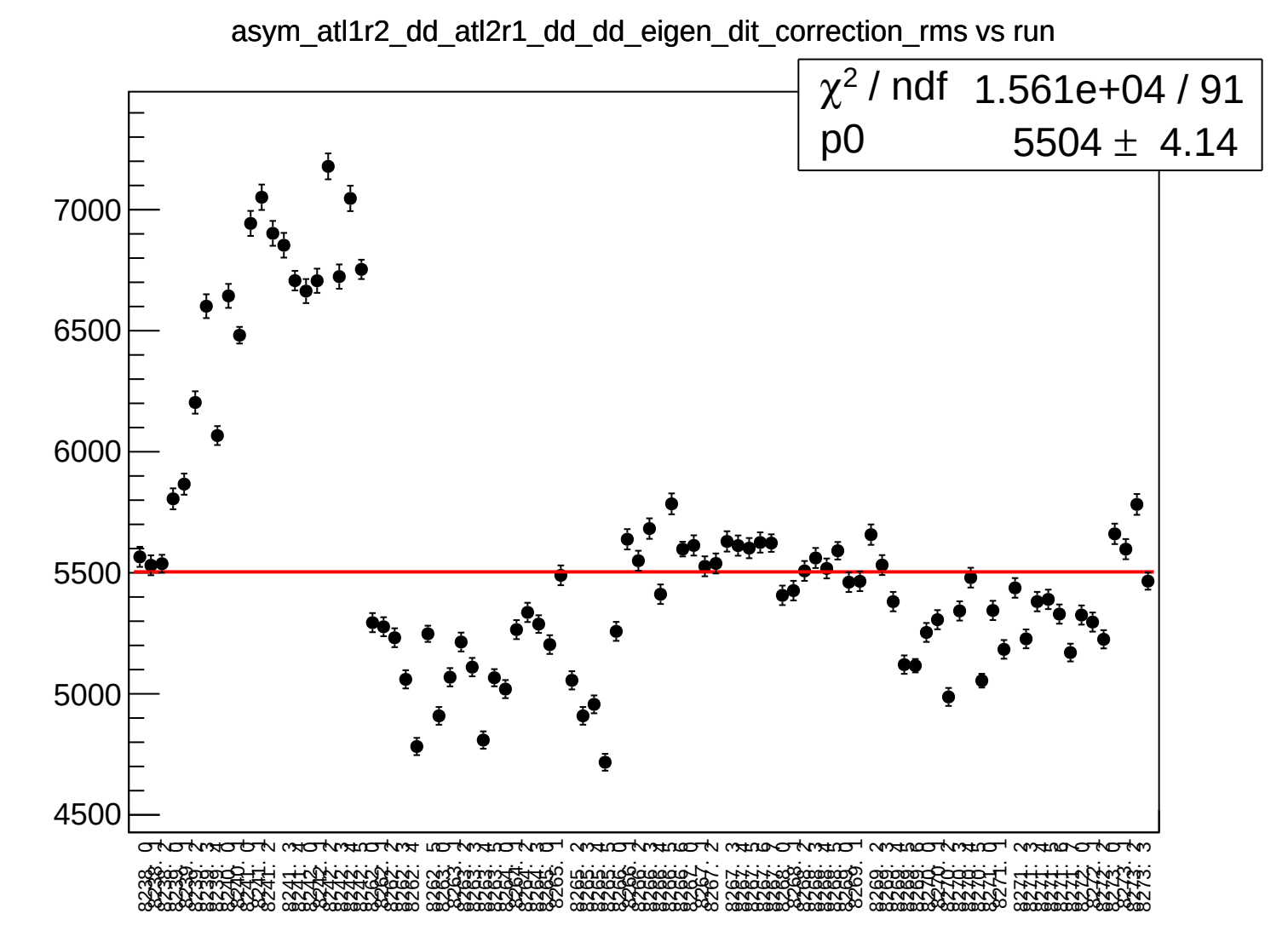

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 1.561e+04 / 91
p0 5504 ± 4.14
7000
6500
6000
5500
5000
4500

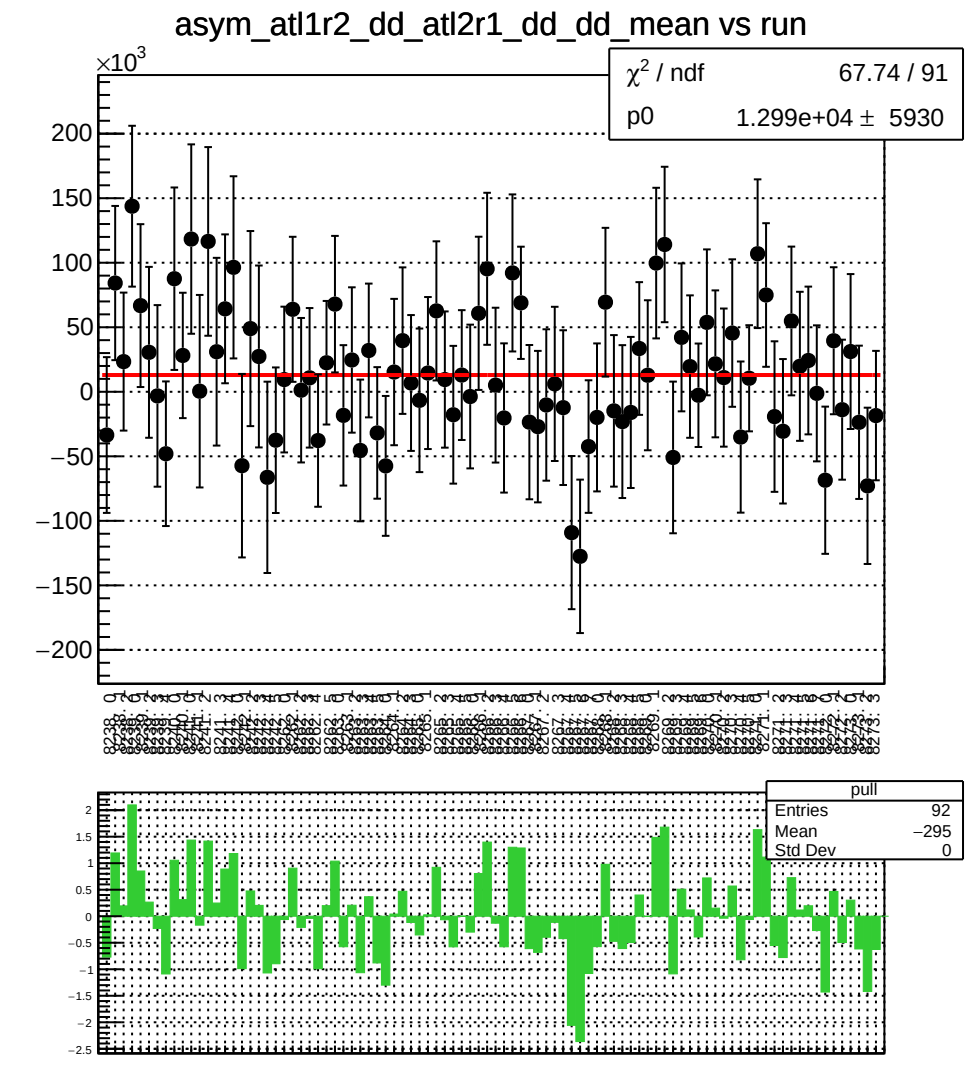

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 99.23 / 91
p0 1375 ± 1391
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −5948
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0001768
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

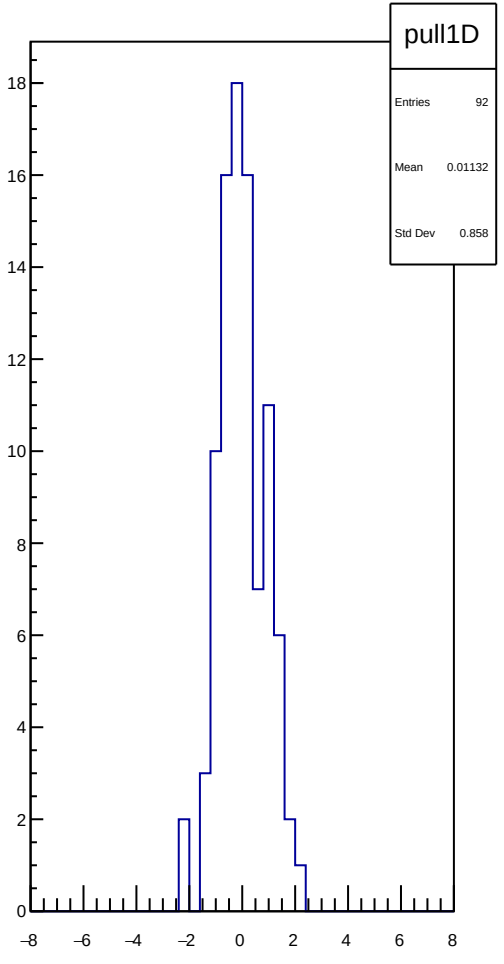

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 290.3 / 91
p0 1313 ± 0.9834
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

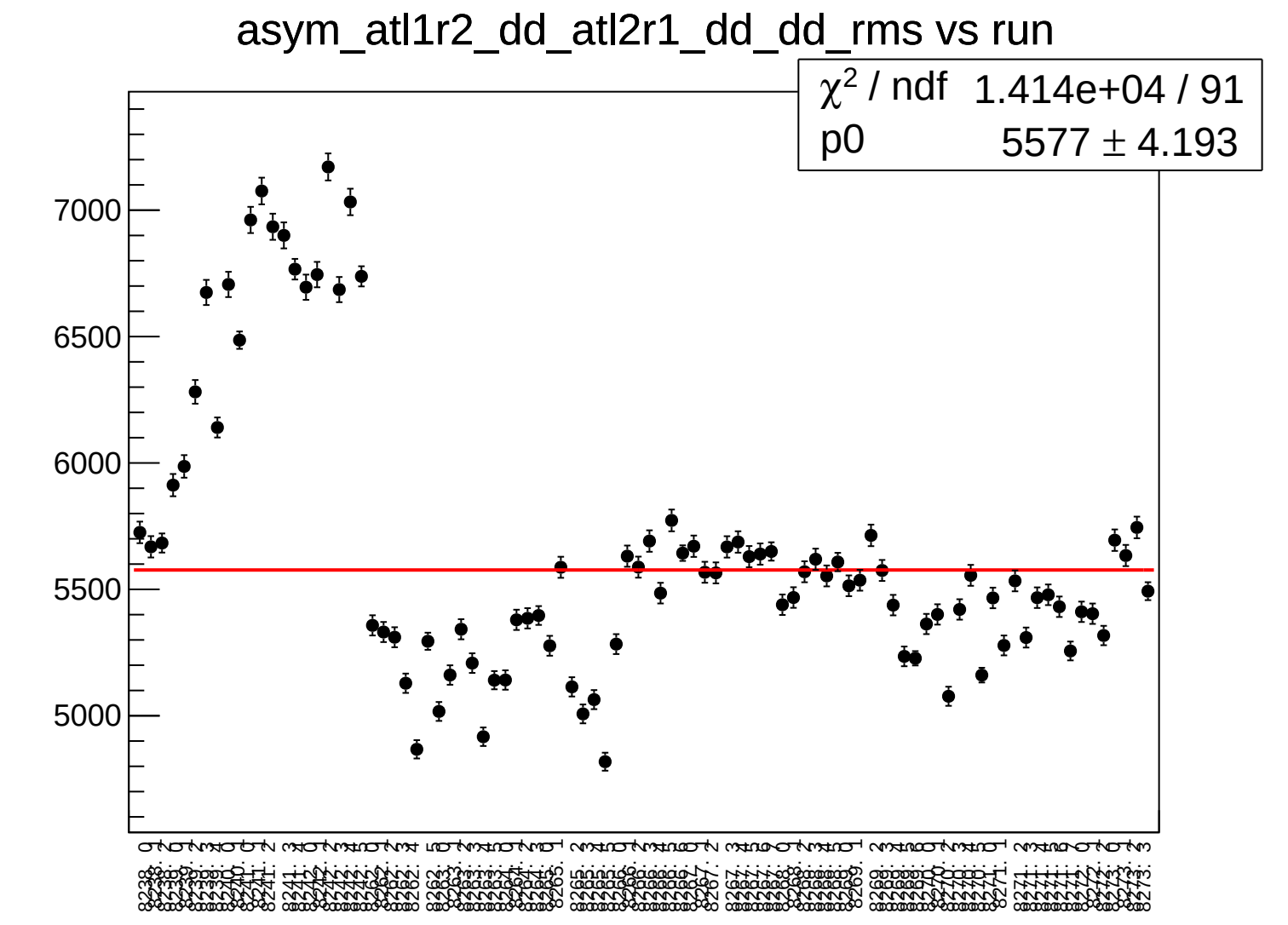

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.07 / 91
p0 −1.22e+04 ± 5855
pull
Entries 92
Mean −492.6
Std Dev 0

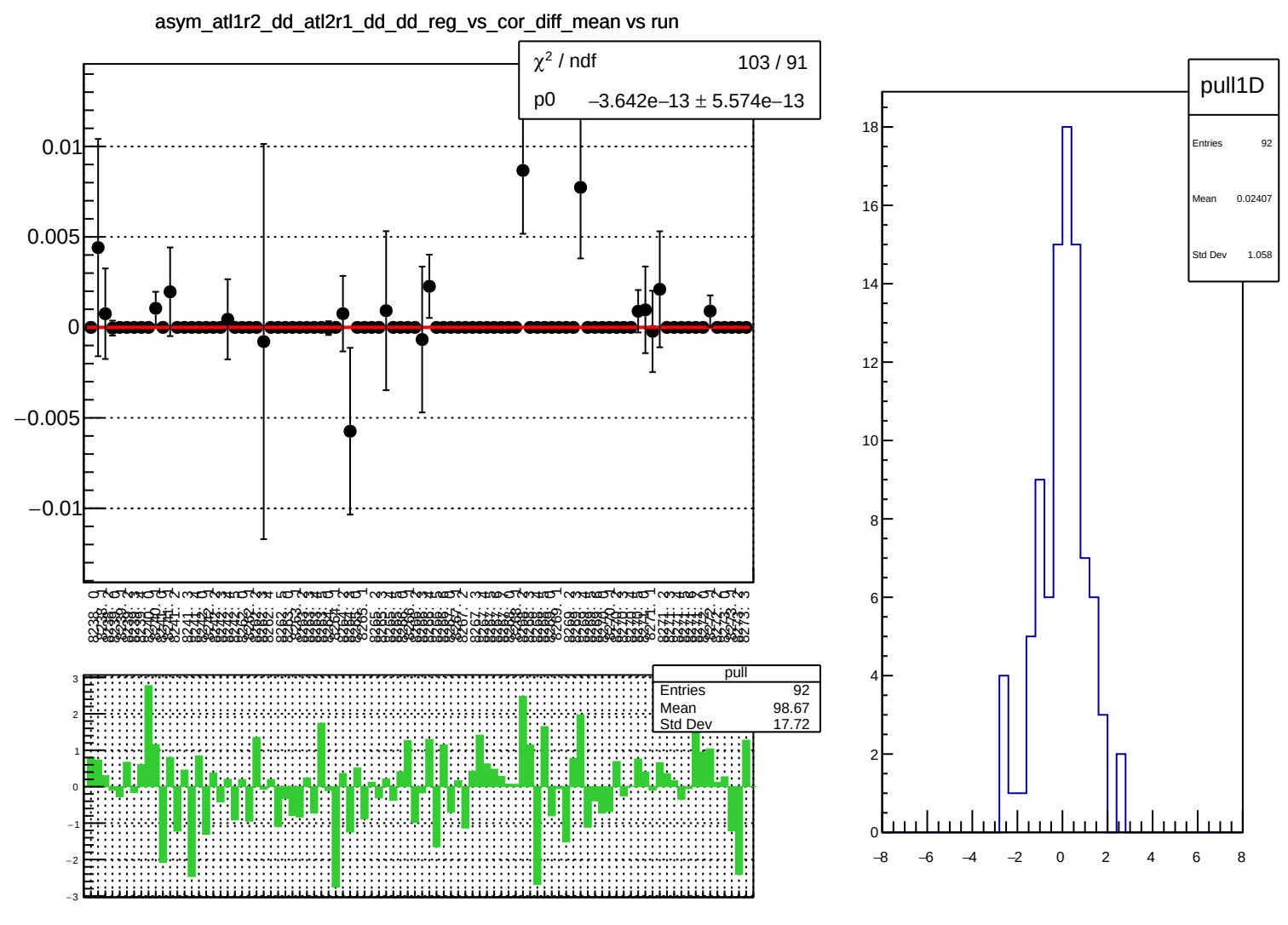

pull1D
Entries 92
Mean −0.007017
Std Dev 0.8601

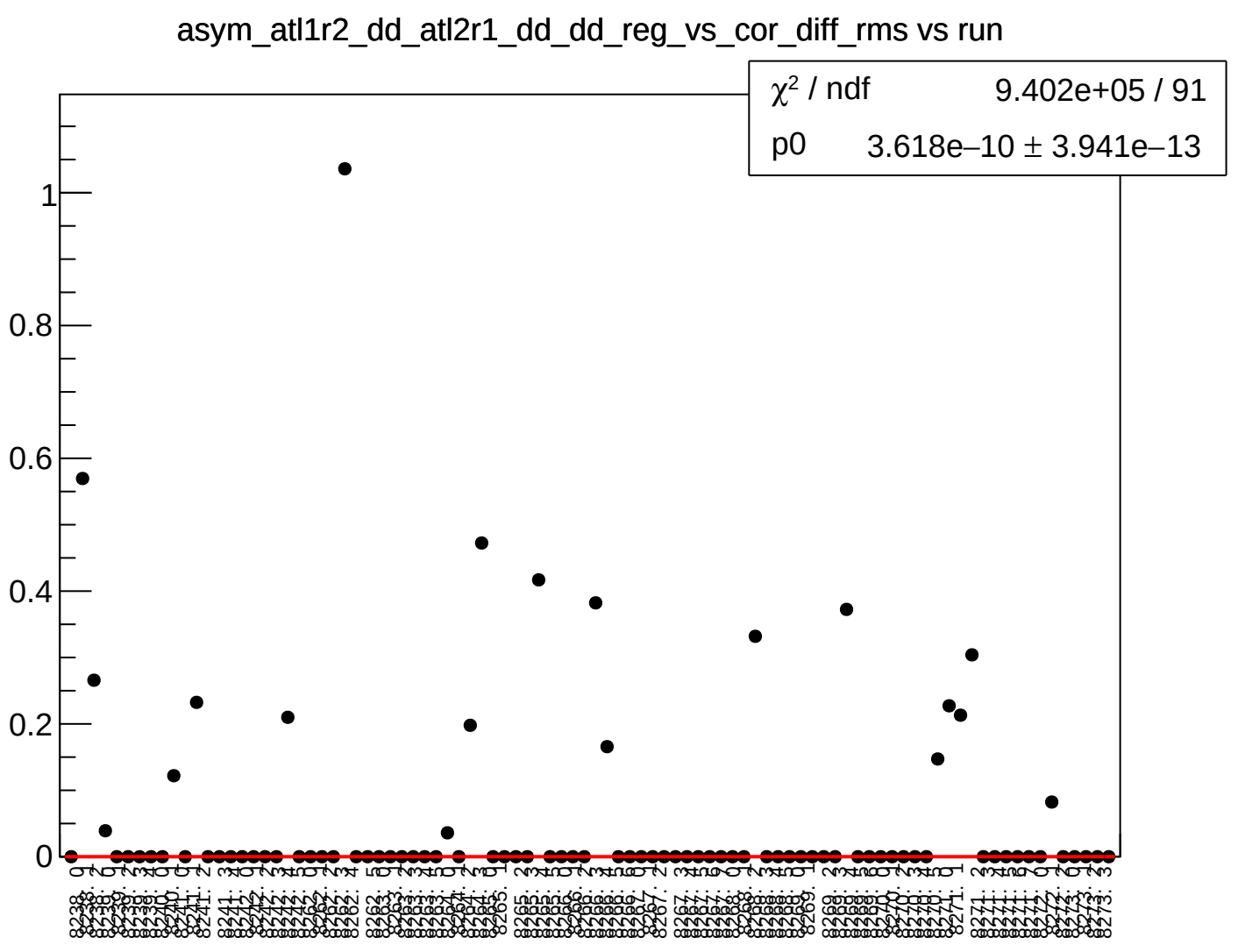

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.561e+04 / 91
p0 5504 ± 4.14
7000
6500
6000
5500
5000
4500

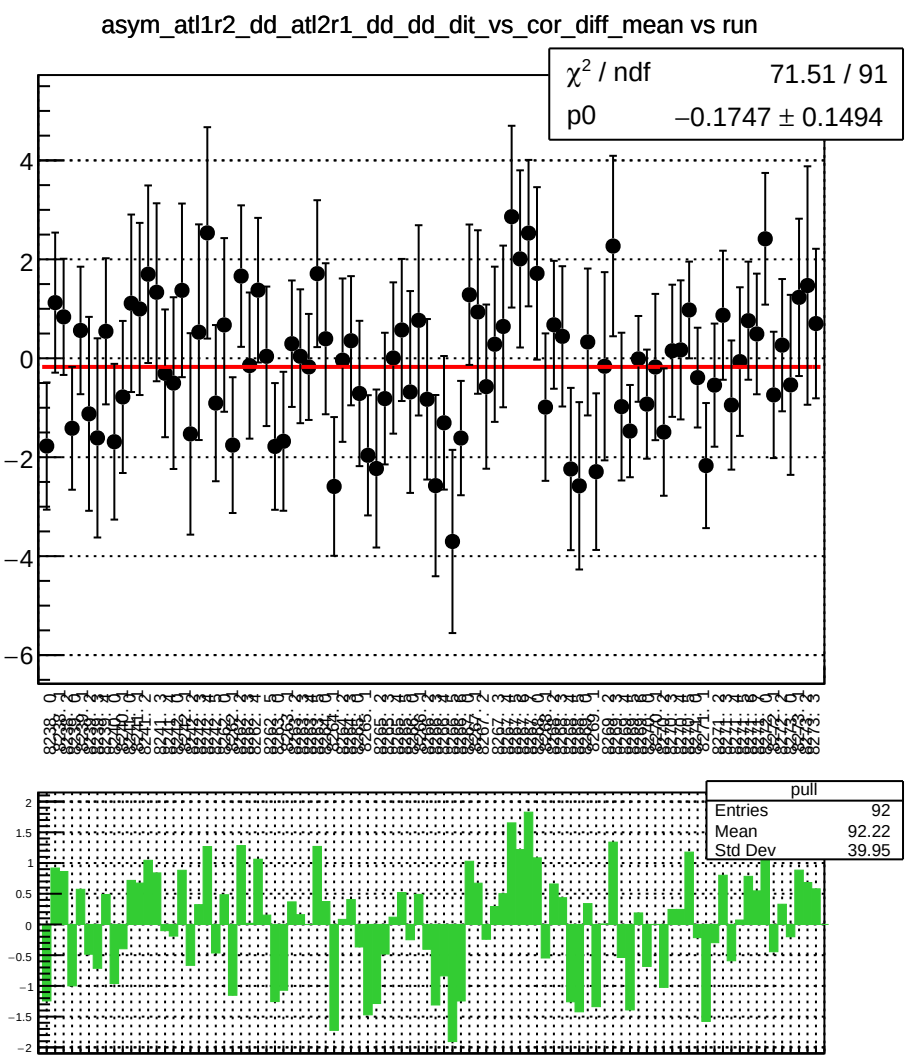

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 67.74 / 91
p0 1.299e+04 ± 5930
pull
Entries 92
Mean −295
Std Dev 0

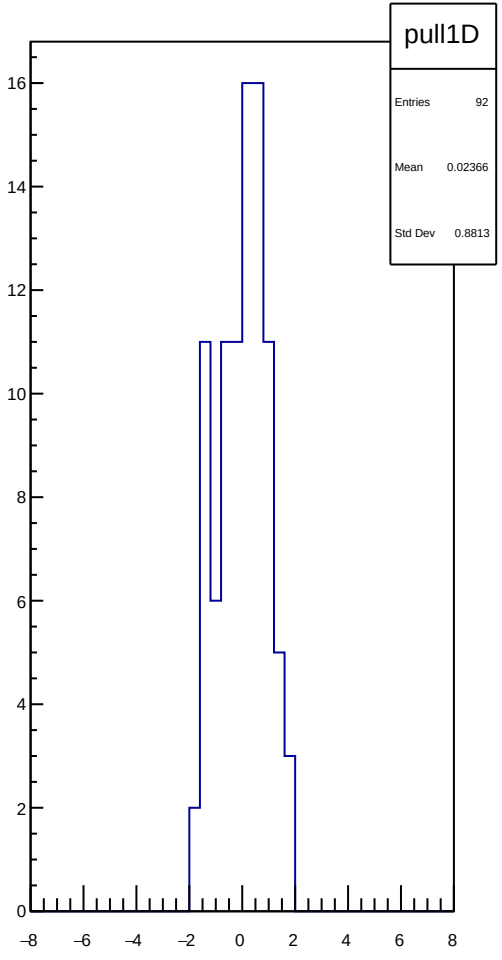

pull1D
Entries 92
Mean 0.01132
Std Dev 0.858

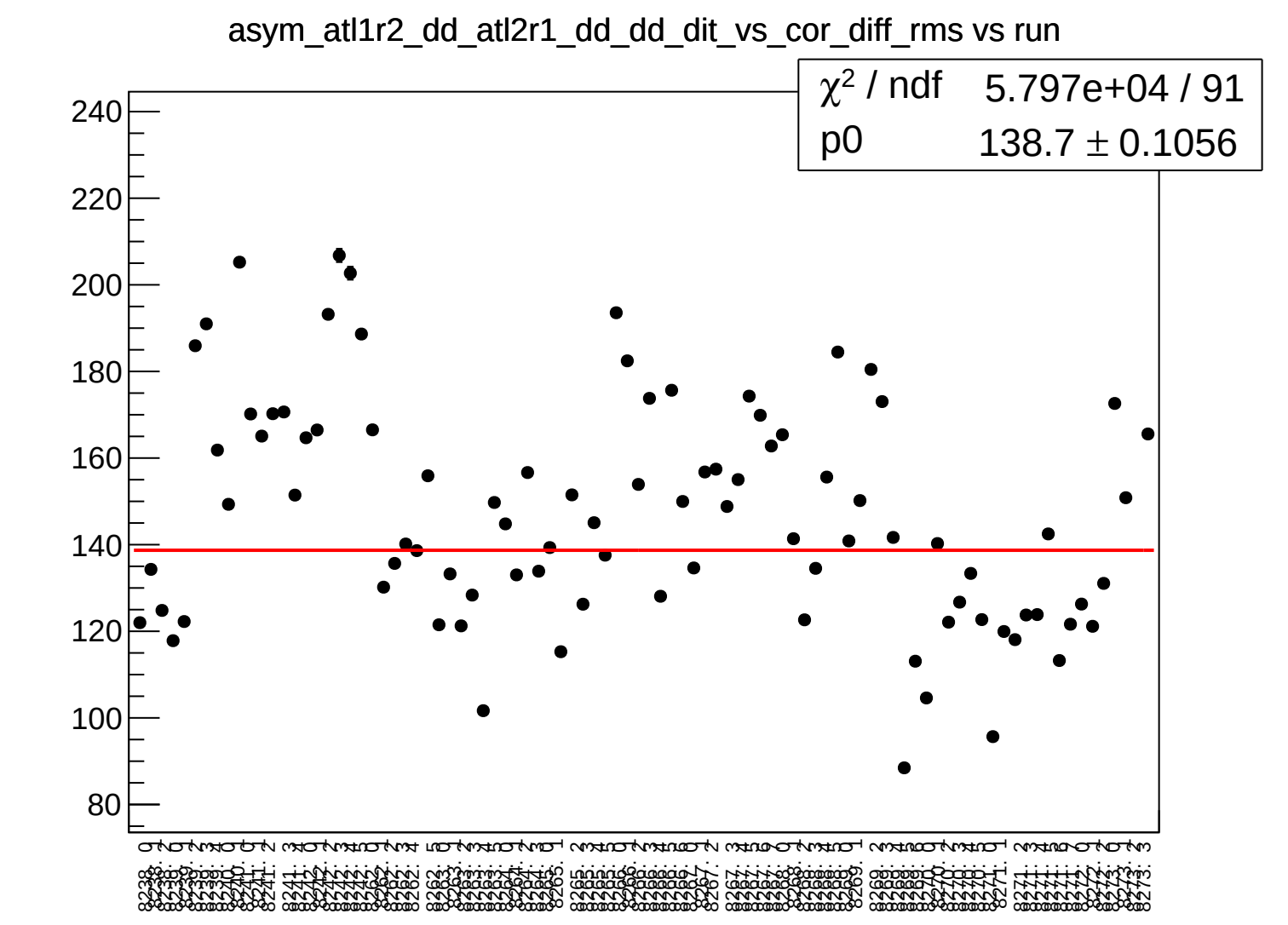

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1.414e+04 / 91
p0 5577 ± 4.193
7000
6500
6000
5500
5000

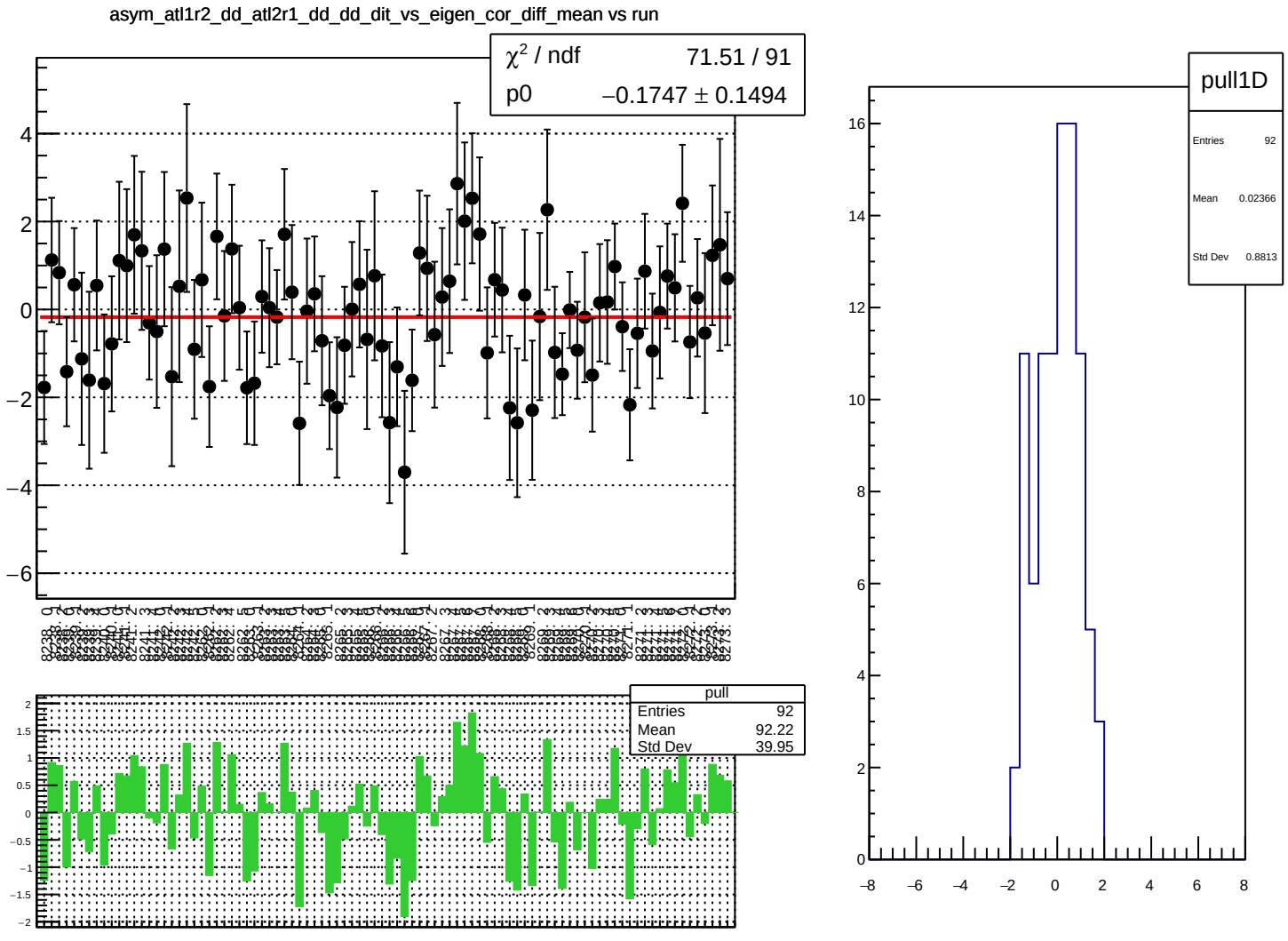

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 103 / 91
p0 −3.642e−13 ± 5.574e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 92
Mean 98.67
Std Dev 17.72
pull1D
Entries 92
Mean 0.02407
Std Dev 1.058

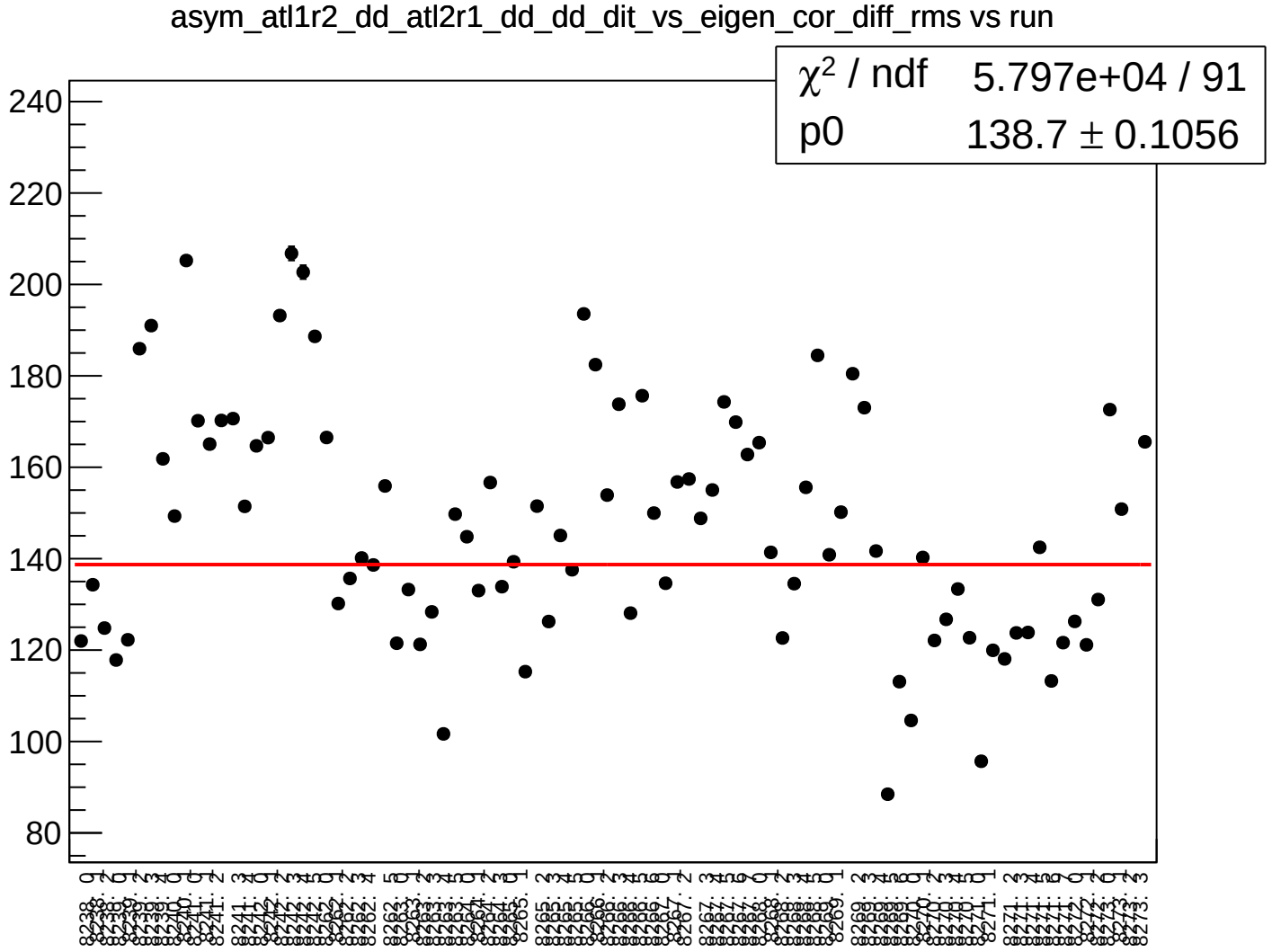

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.402e+05 / 91
p0 3.618e−10 ± 3.941e−13
1
0.8
0.6
0.4
0.2
0

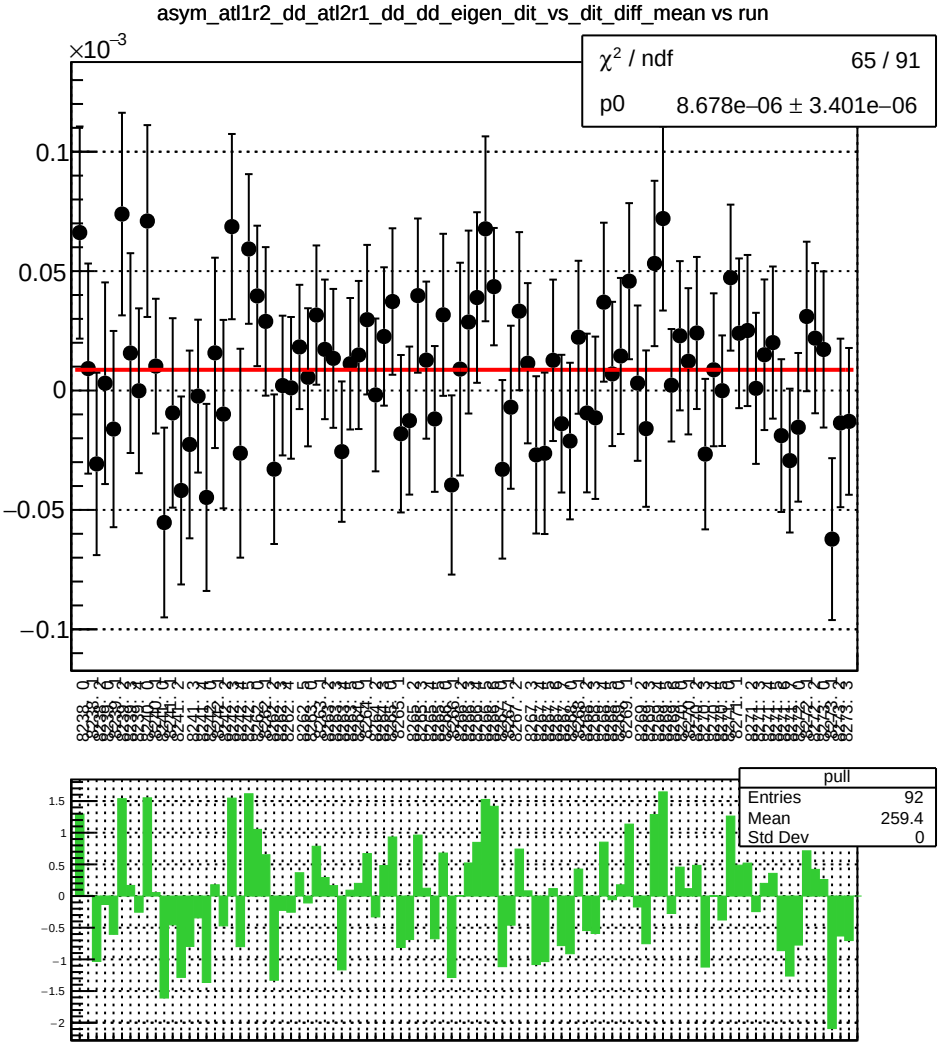

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.51 / 91
p0 −0.1747 ± 0.1494
pull
Entries 92
Mean 92.22
Std Dev 39.95

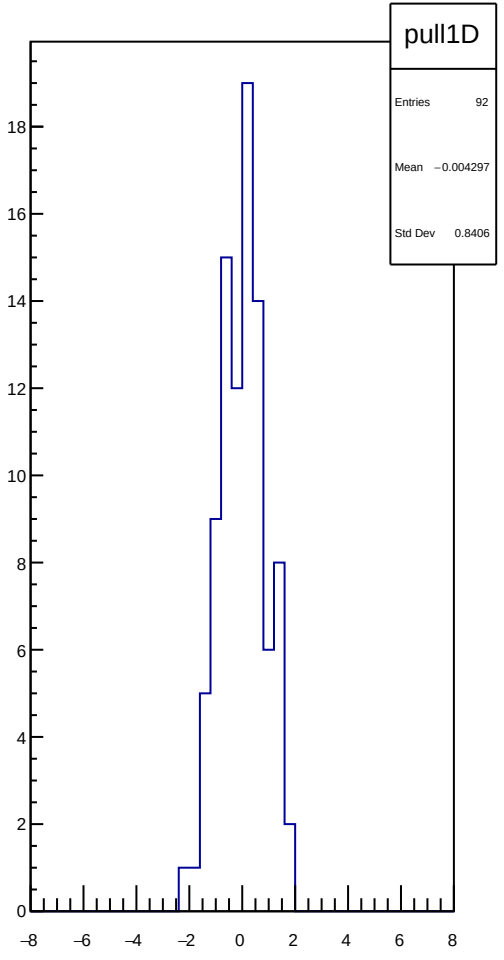

pull1D
Entries 92
Mean 0.02366
Std Dev 0.8813

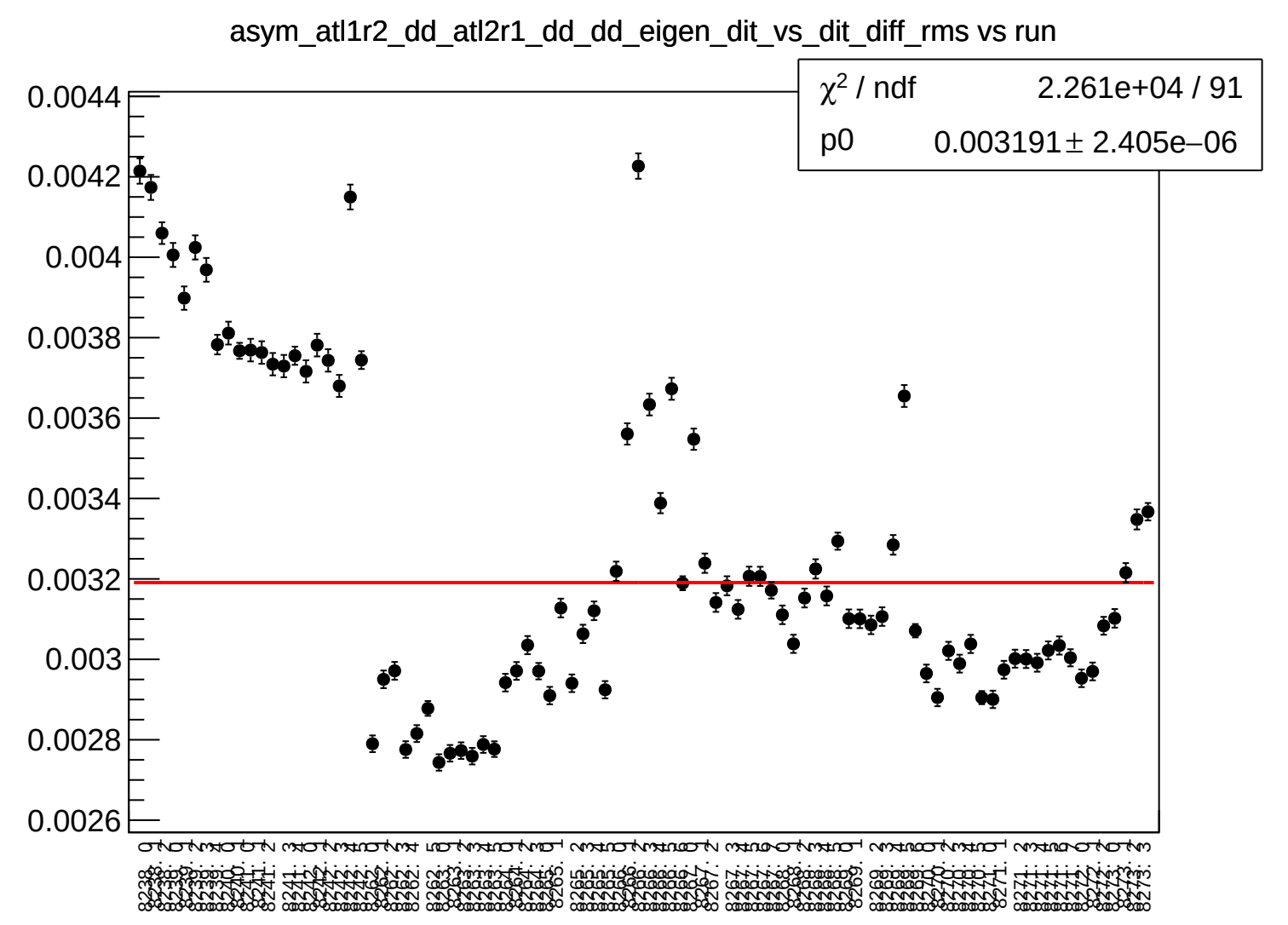

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.797e+04 / 91
p0 138.7 ± 0.1056
240
220
200
180
160
140
120
100
80

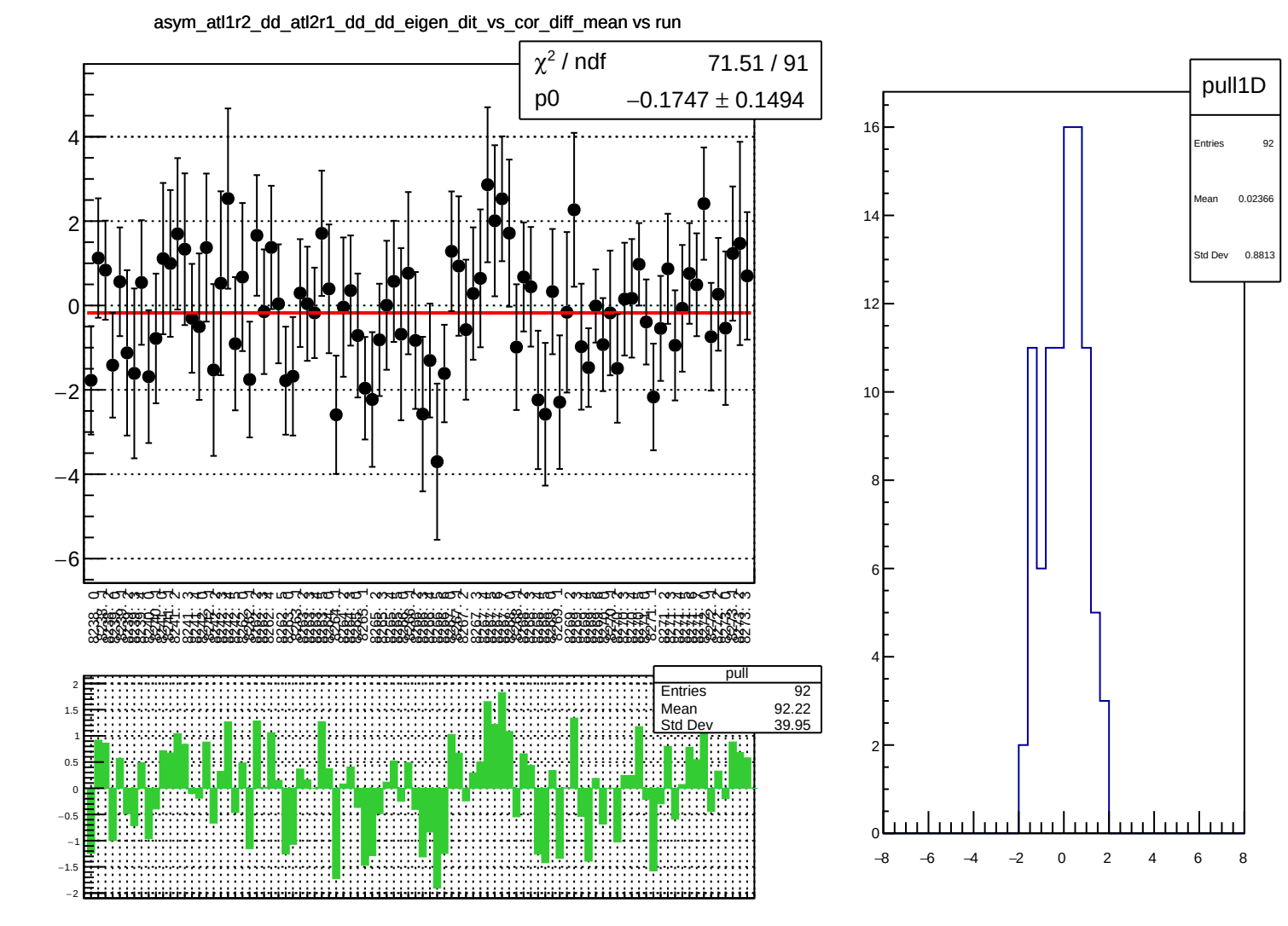

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.51 / 91
p0 −0.1747 ± 0.1494
pull
Entries 92
Mean 92.22
Std Dev 39.95
pull1D
Entries 92
Mean 0.02366
Std Dev 0.8813

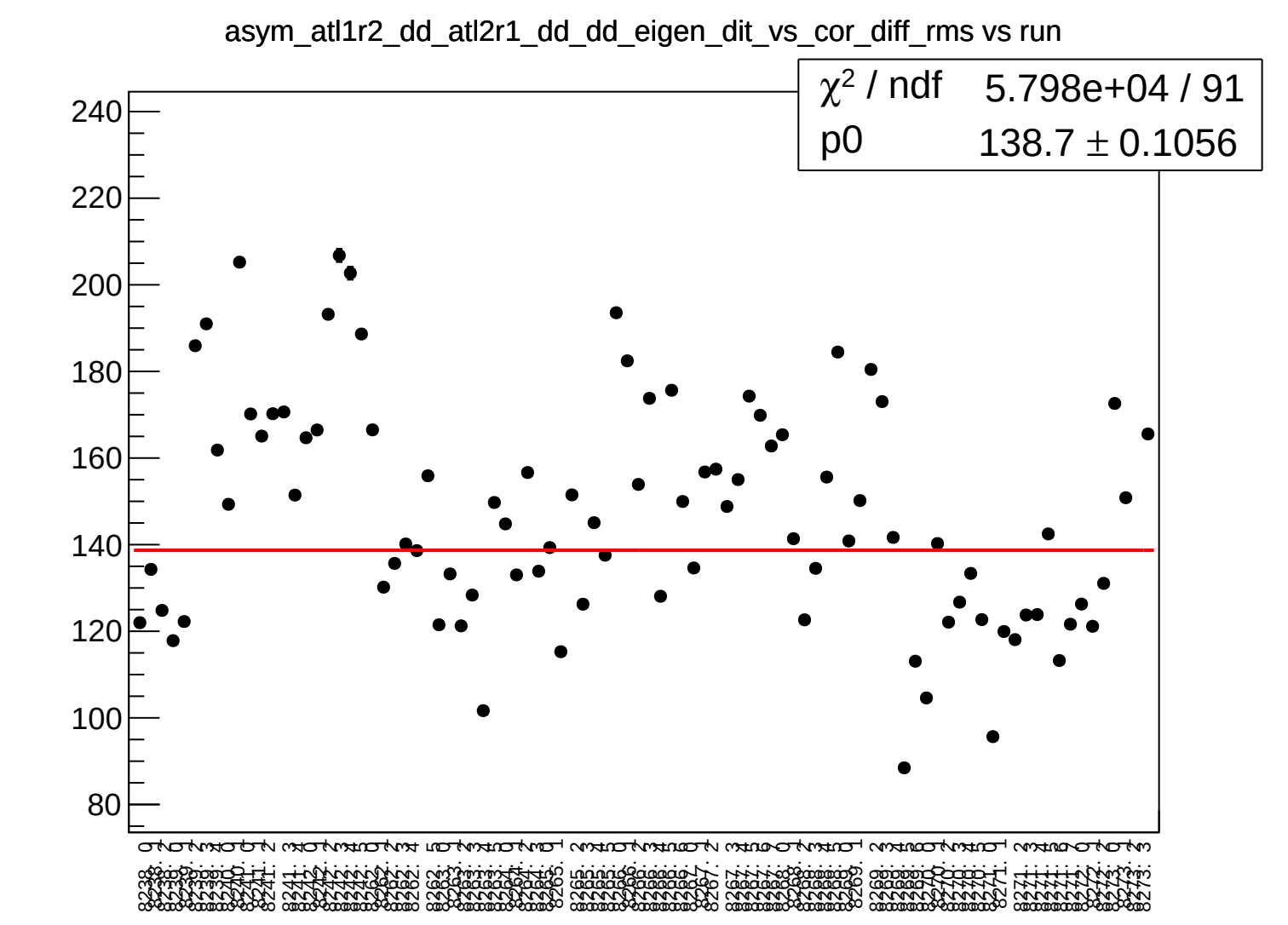

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.797e+04 / 91
p0 138.7 ± 0.1056
240
220
200
180
160
140
120
100
80

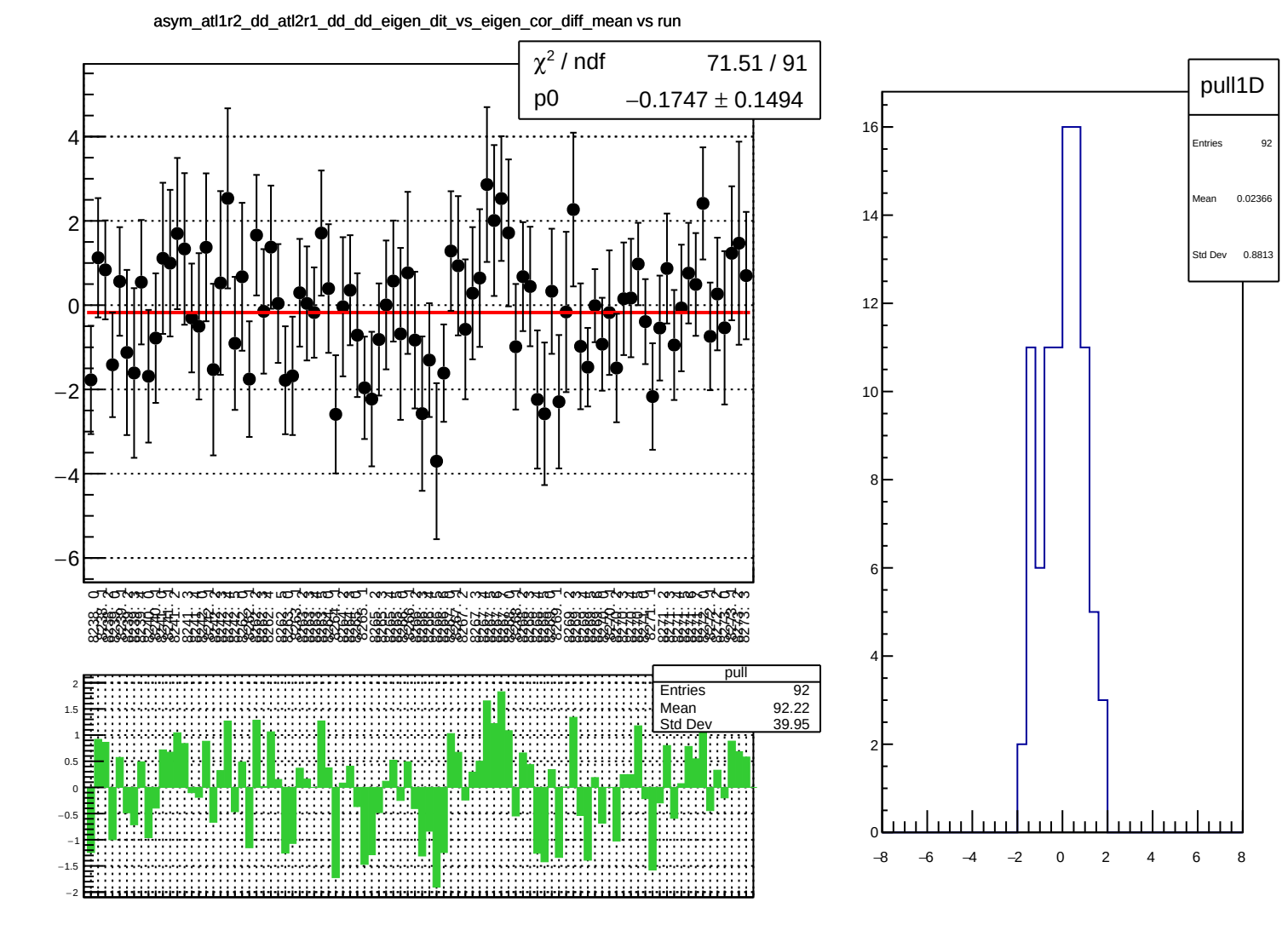

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 65 / 91
p0 8.678e−06 ± 3.401e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean 259.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

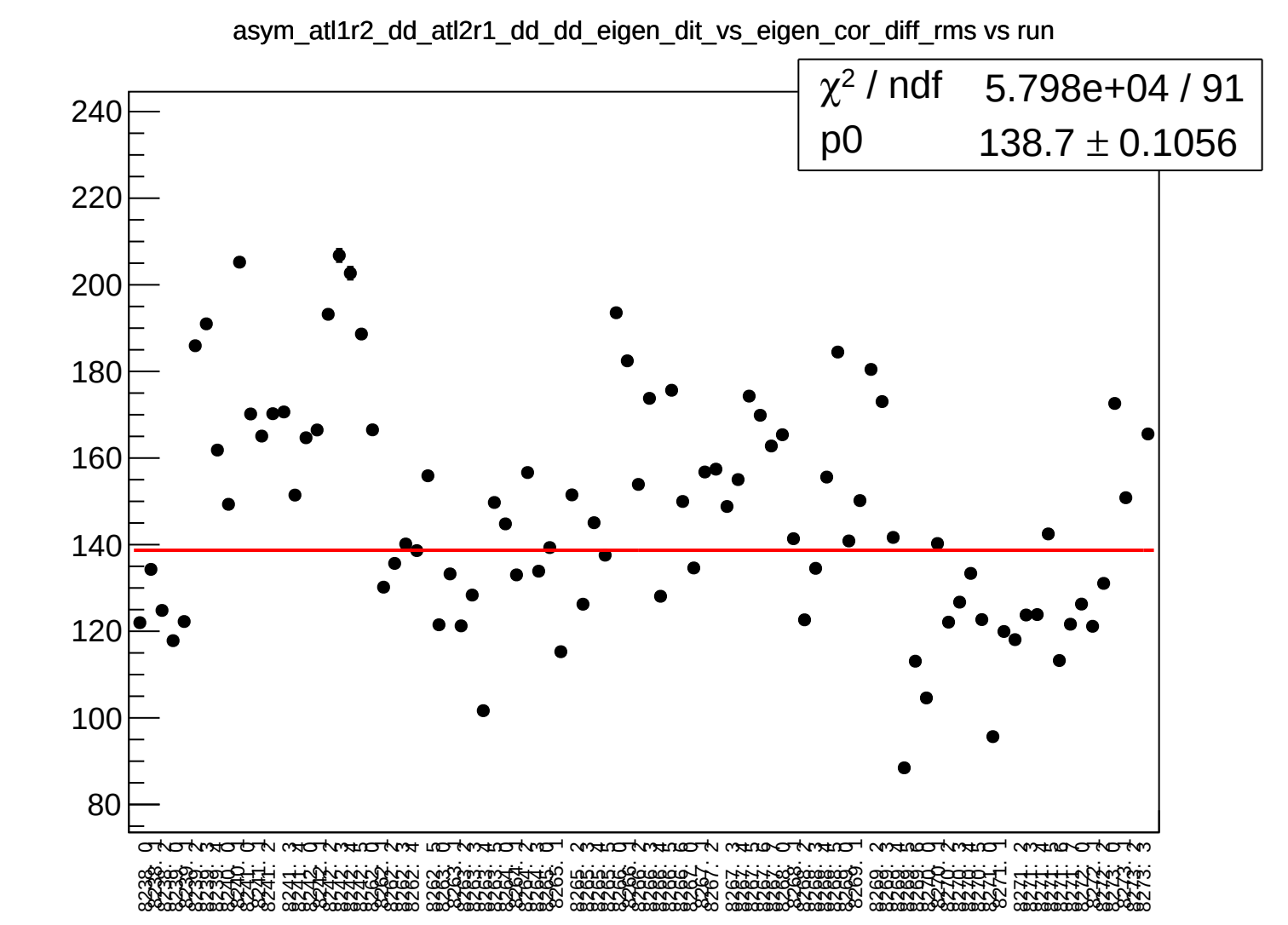

pull1D
Entries 92
Mean −0.004297
Std Dev 0.8406
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

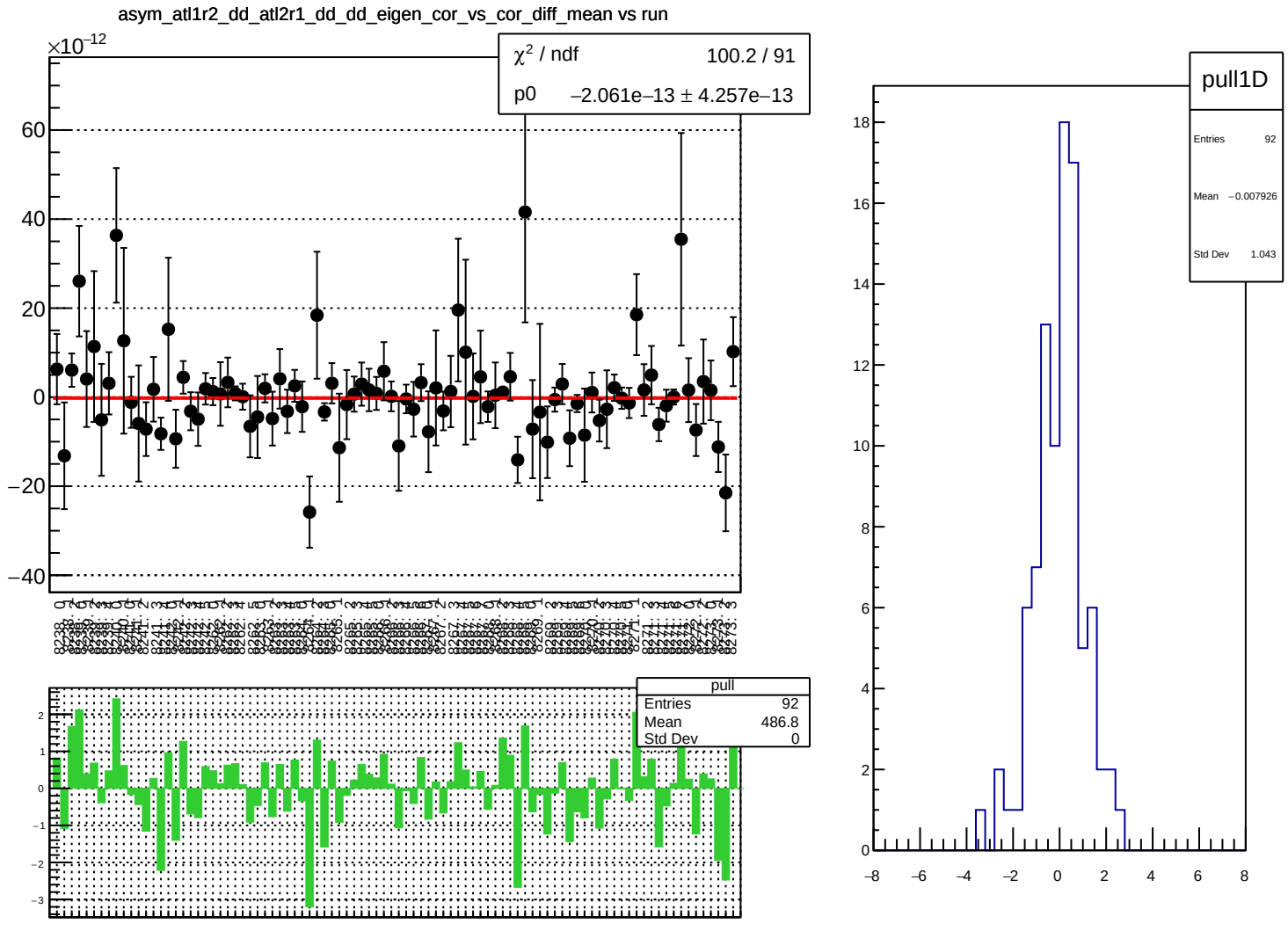

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.261e+04 / 91
p0 0.003191 ± 2.405e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

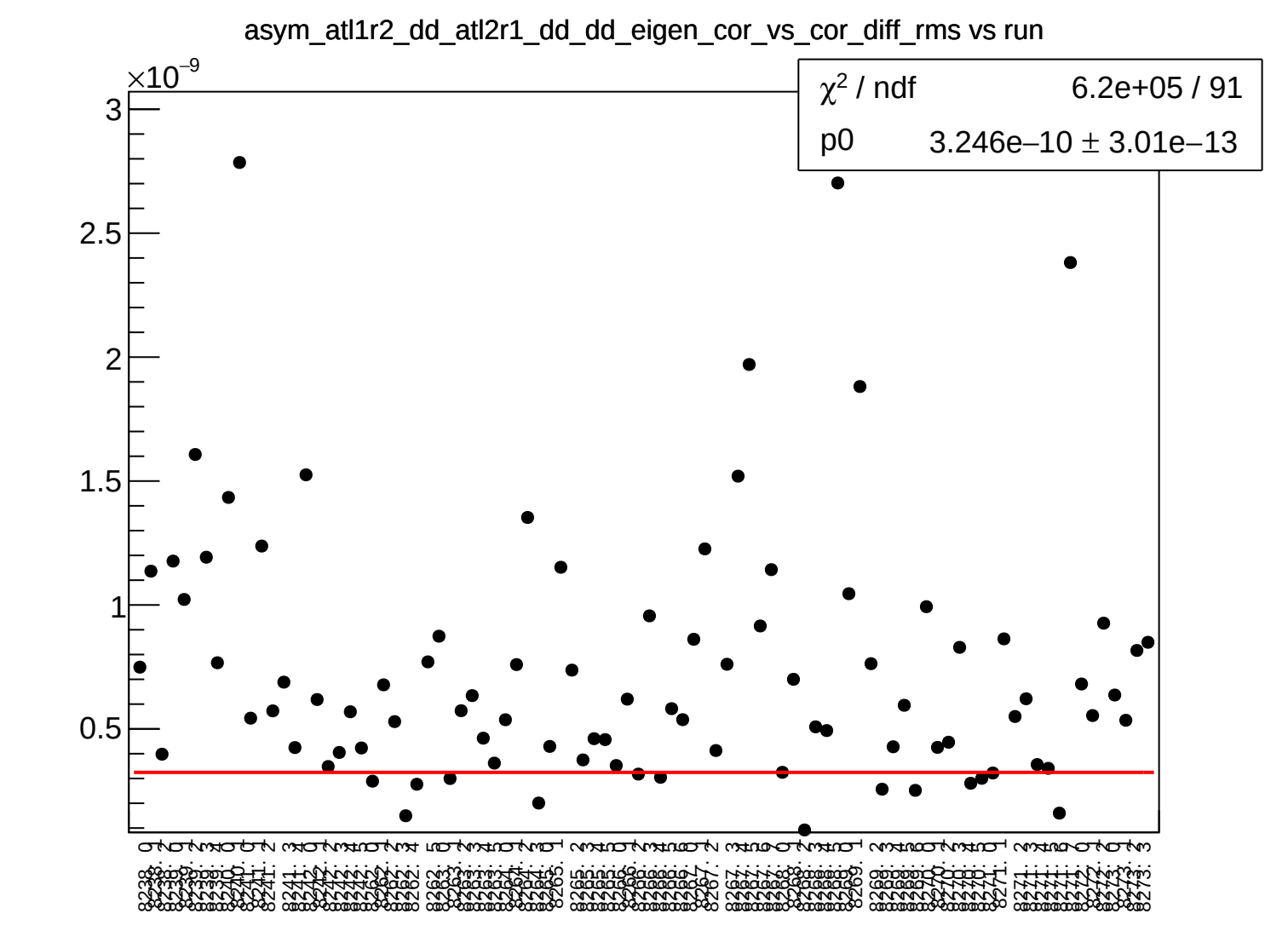

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.51 / 91
p0 −0.1747 ± 0.1494
pull
Entries 92
Mean 92.22
Std Dev 39.95
pull1D
Entries 92
Mean 0.02366
Std Dev 0.8813

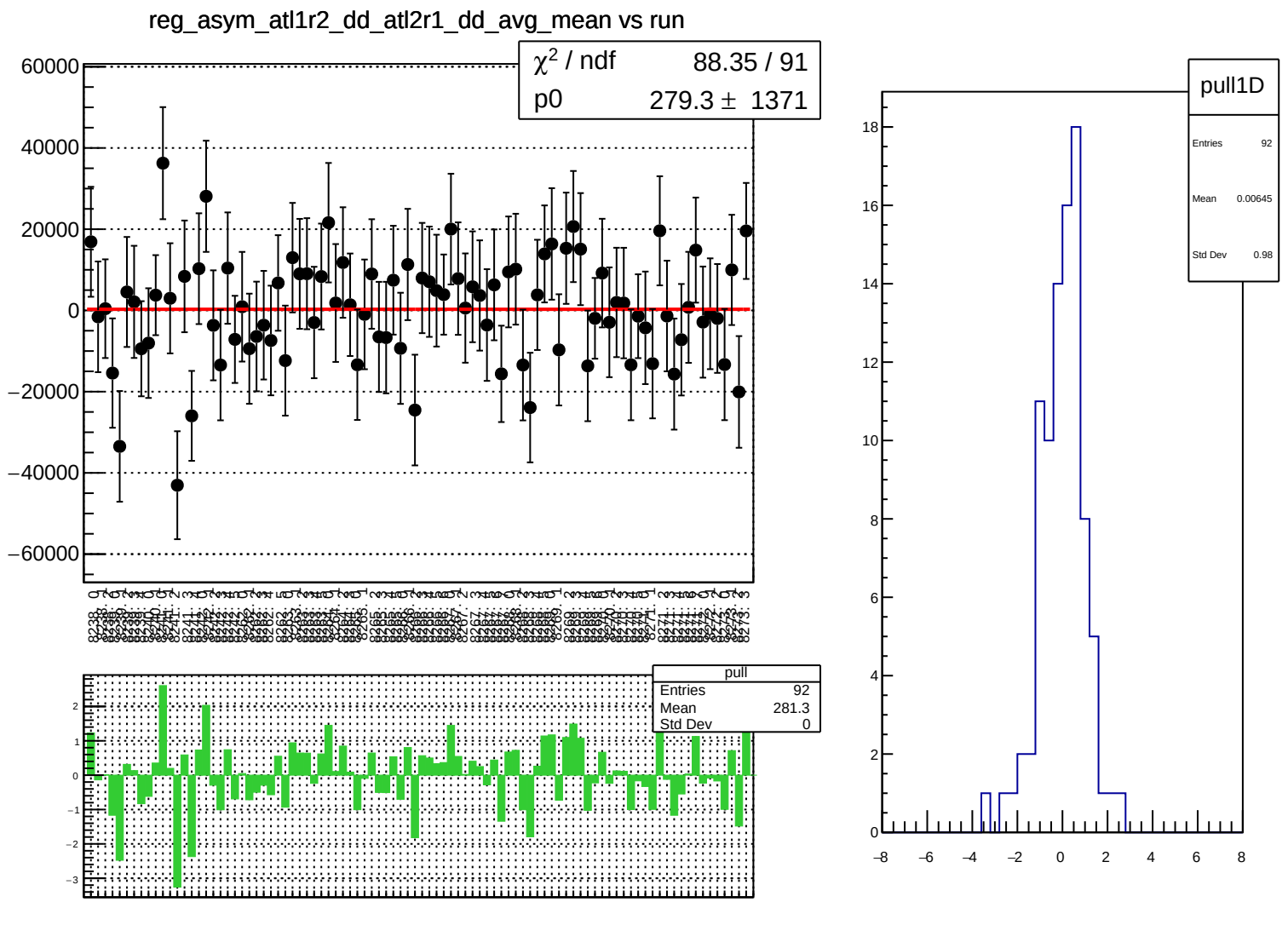

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.798e+04 / 91
p0 138.7 ± 0.1056
240
220
200
180
160
140
120
100
80

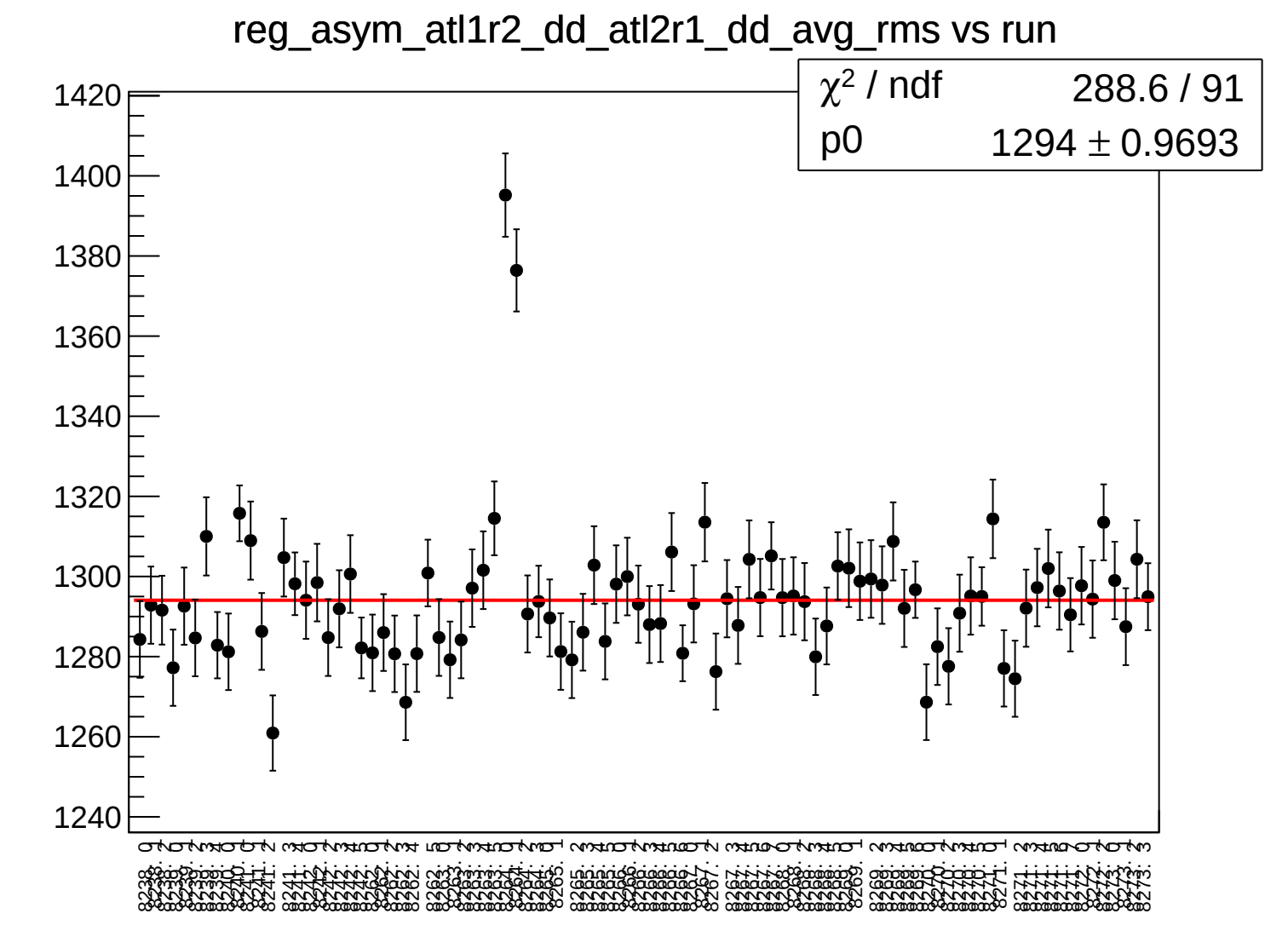

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.51 / 91
p0 −0.1747 ± 0.1494
pull
Entries 92
Mean 92.22
Std Dev 39.95
pull1D
Entries 92
Mean 0.02366
Std Dev 0.8813

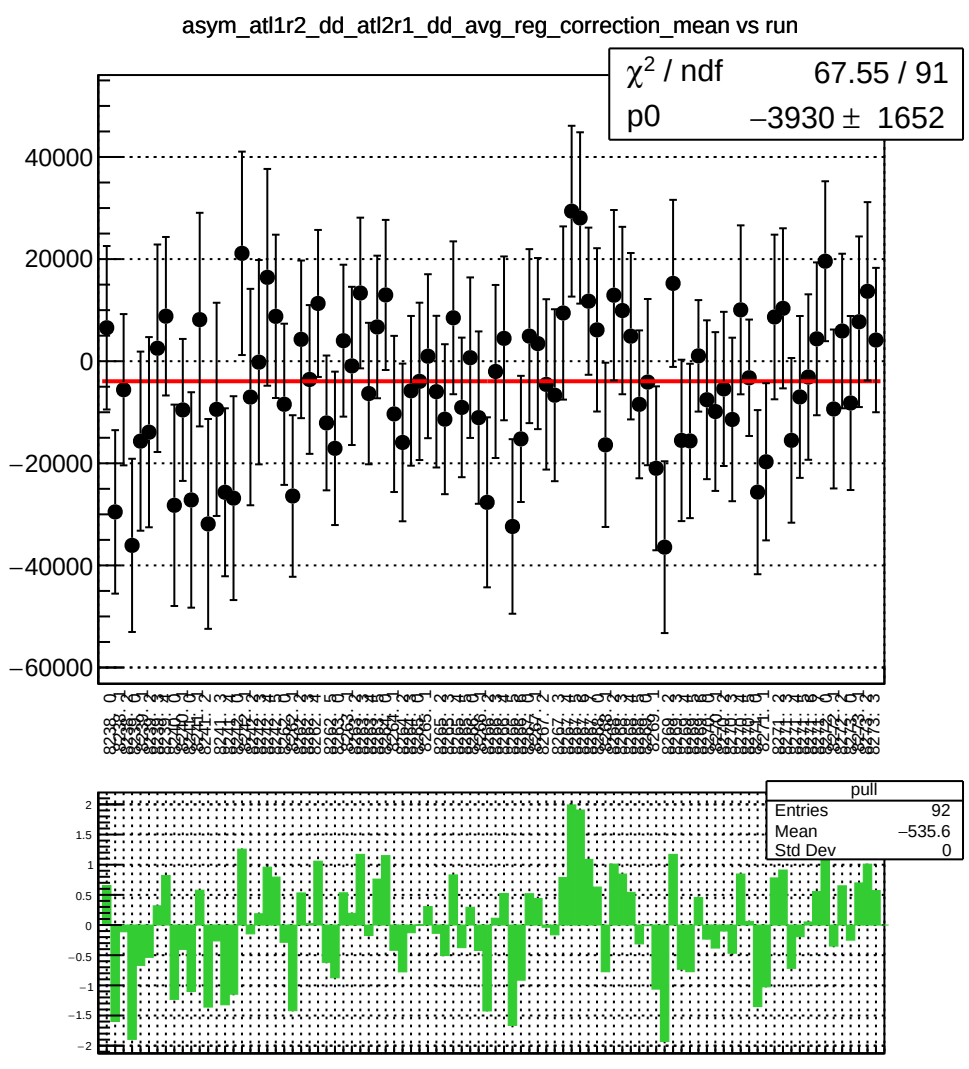

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.798e+04 / 91
p0 138.7 ± 0.1056
240
220
200
180
160
140
120
100
80

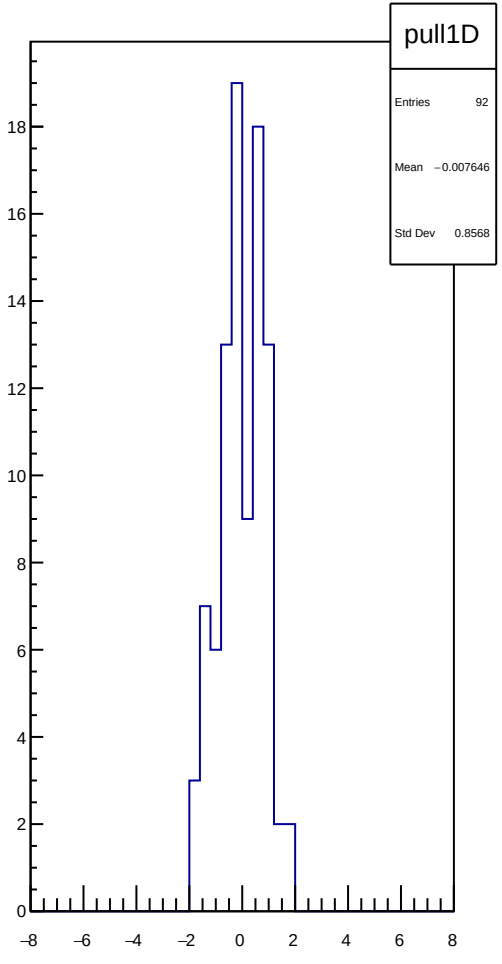

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 100.2 / 91
p0 −2.061e−13 ± 4.257e−13
pull
Entries 92
Mean 486.8
Std Dev 0
pull1D
Entries 92
Mean −0.007926
Std Dev 1.043

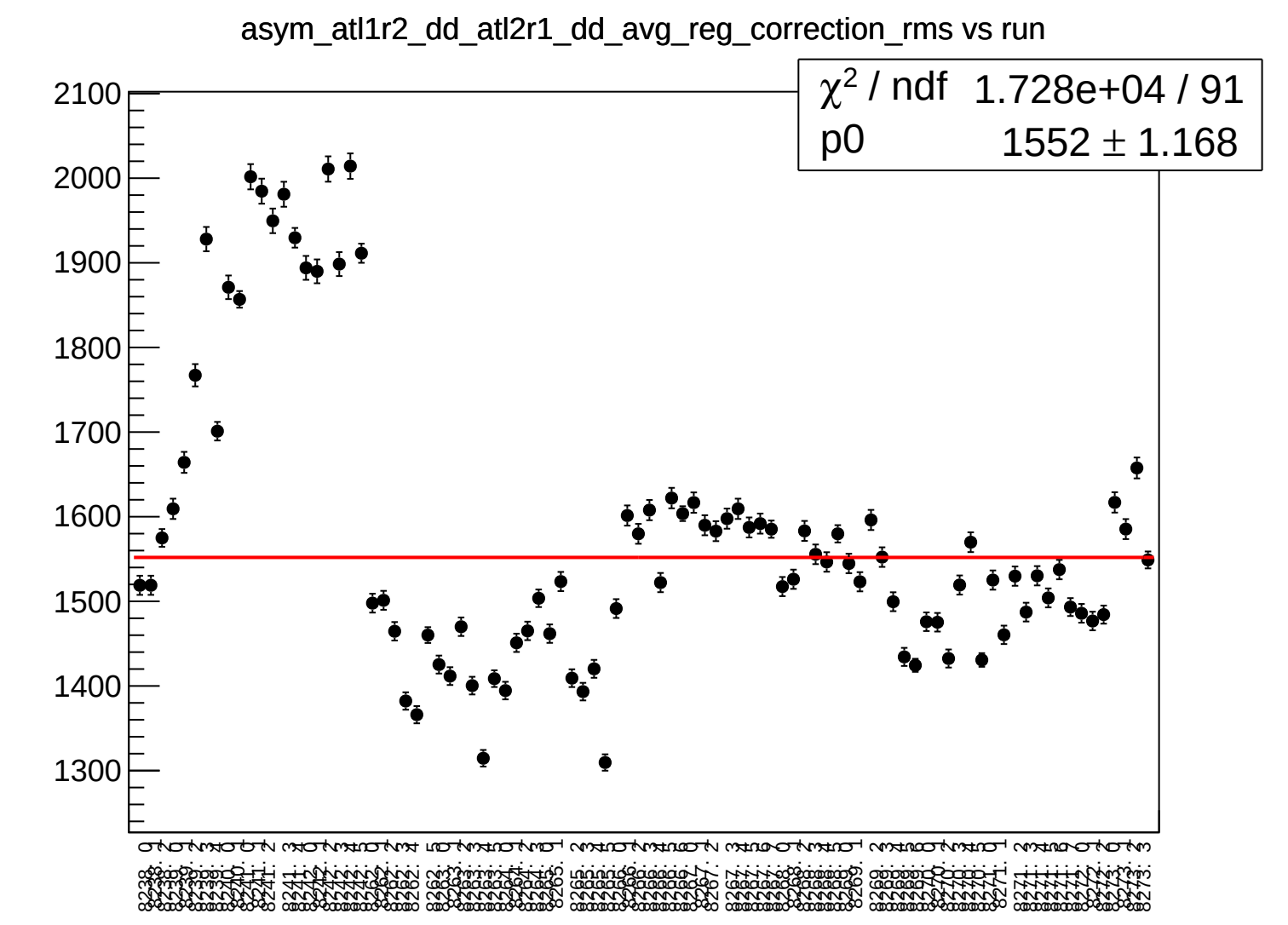

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.2e+05 / 91
p0 3.246e−10 ± 3.01e−13
3
2.5
2
1.5
1
0.5

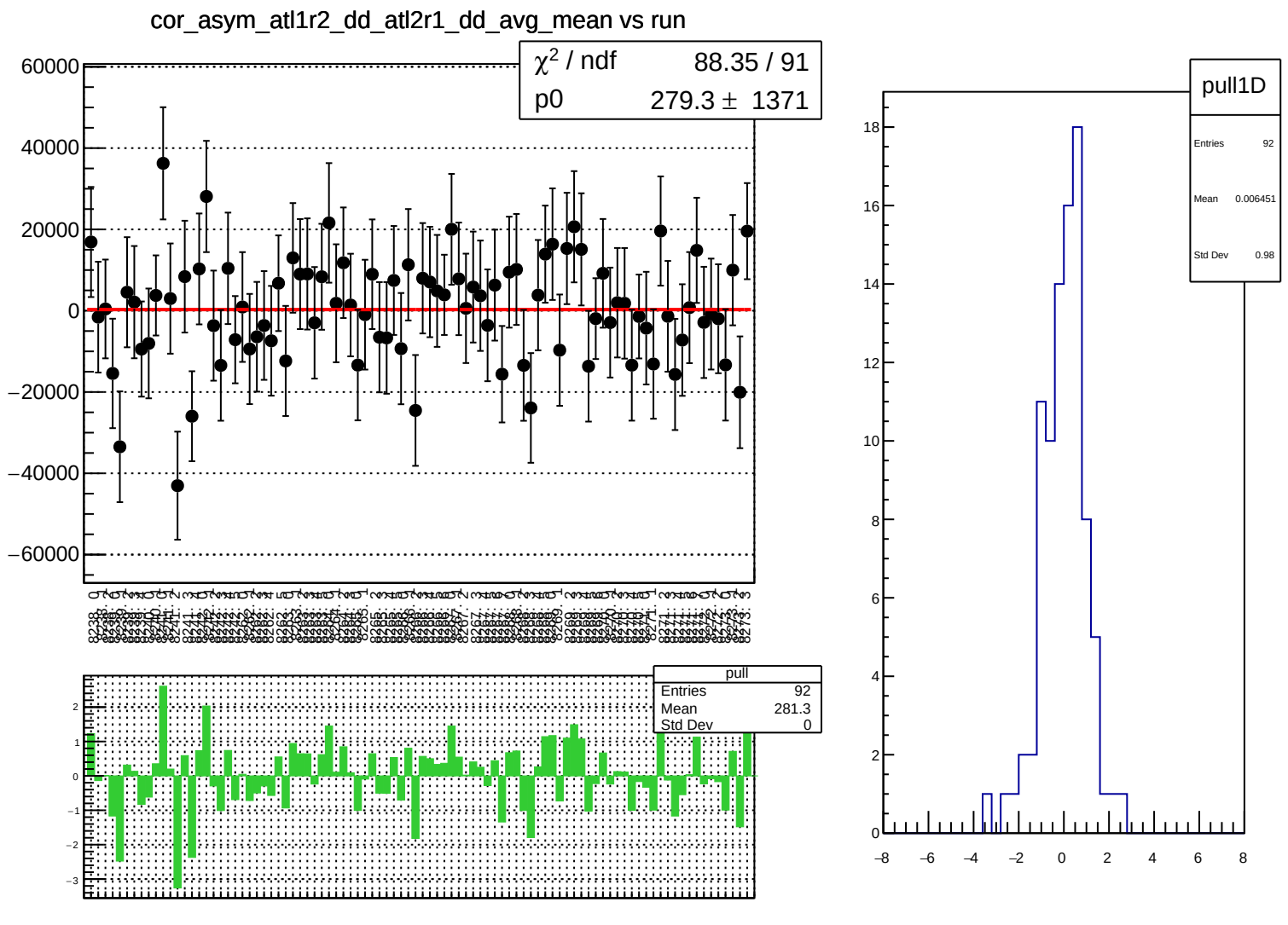

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 88.35 / 91
p0 279.3 ± 1371
pull
Entries 92
Mean 281.3
Std Dev 0
pull1D
Entries 92
Mean 0.00645
Std Dev 0.98

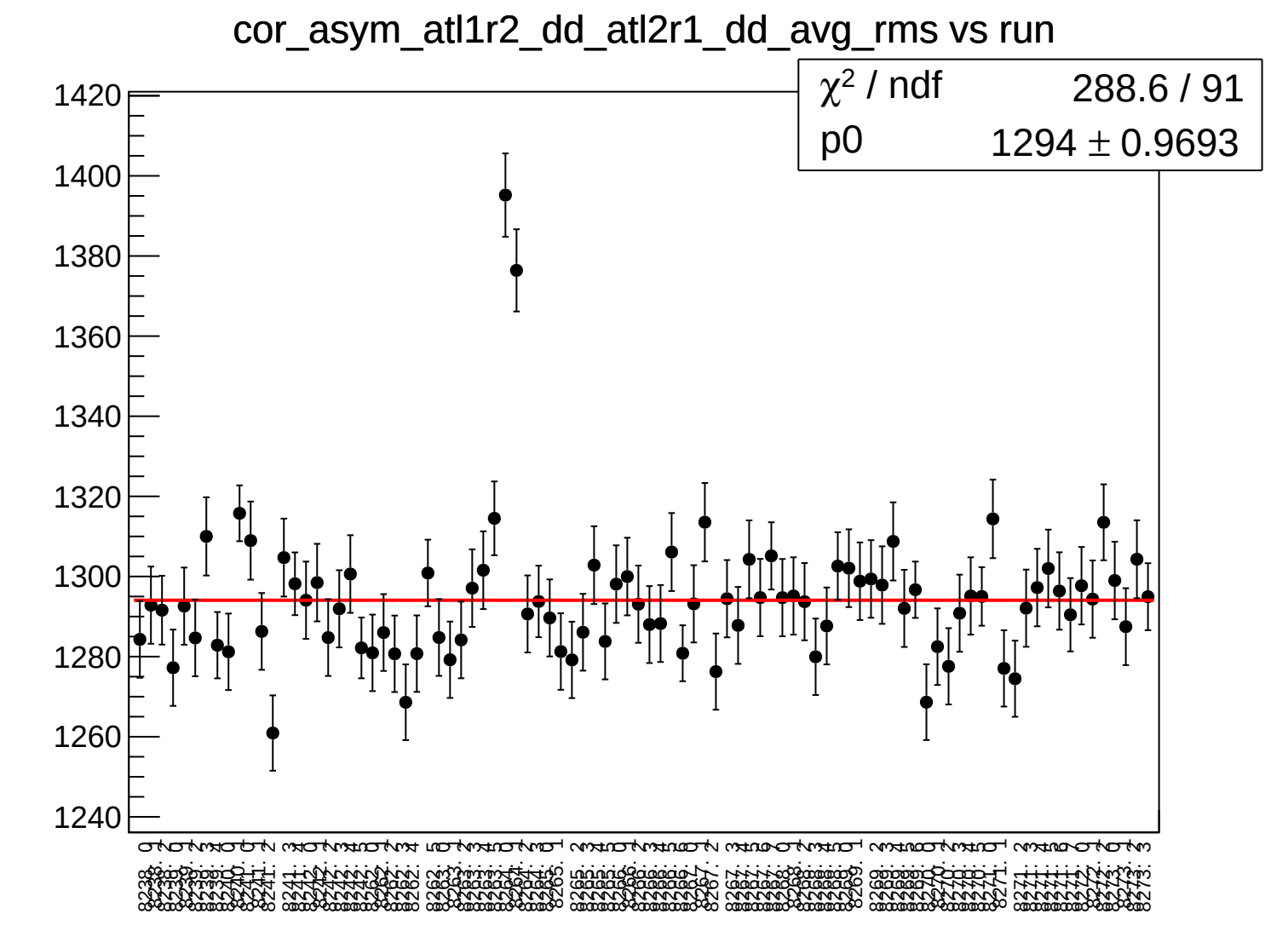

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 288.6 / 91
p0 1294 ± 0.9693
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

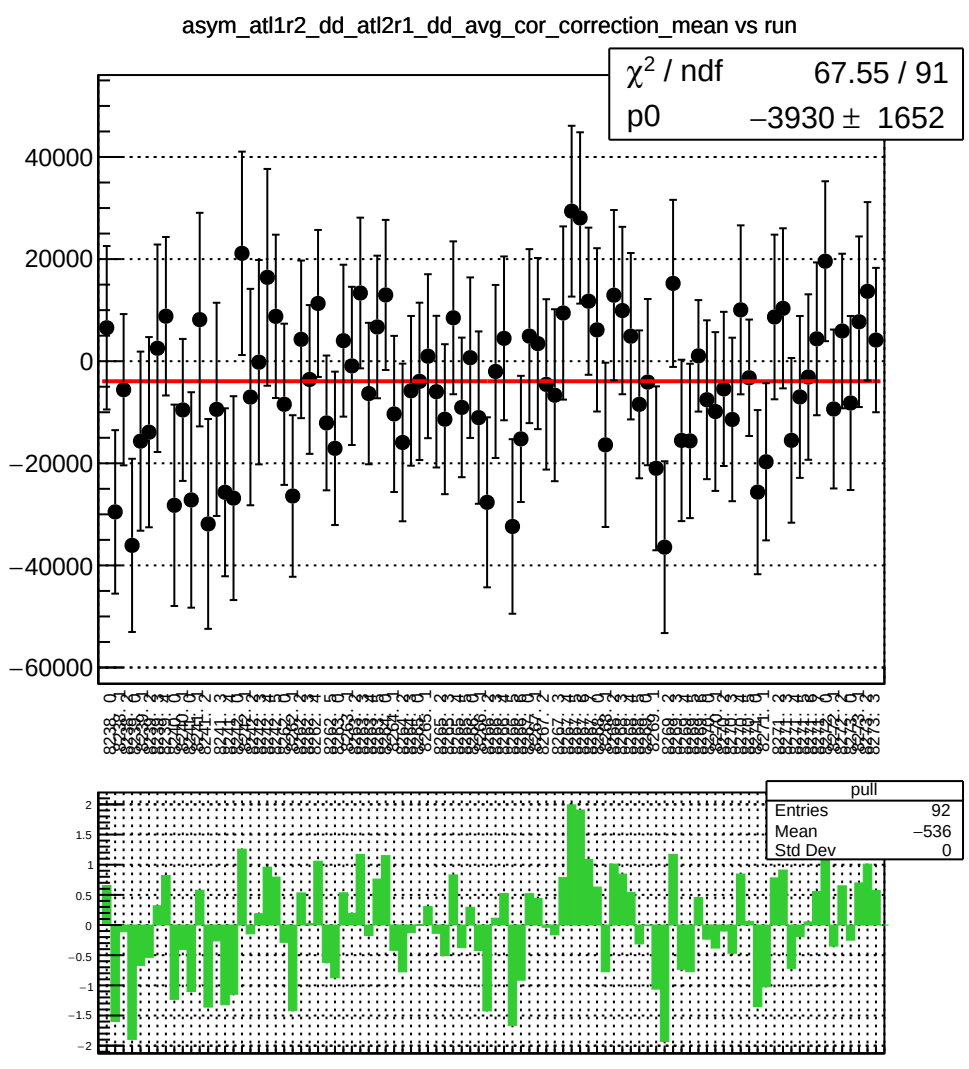

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 67.55 / 91
p0 −3930 ± 1652
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −535.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

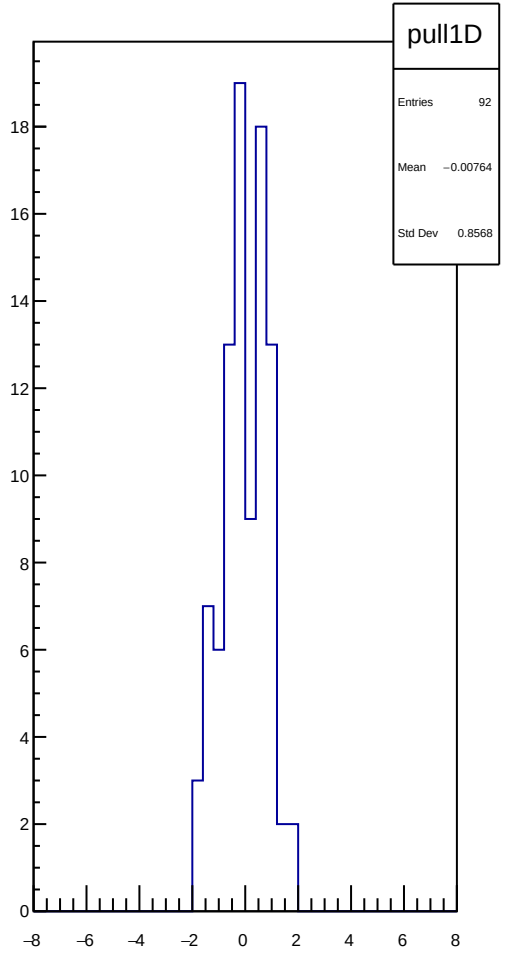

pull1D
Entries 92
Mean −0.007646
Std Dev 0.8568
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

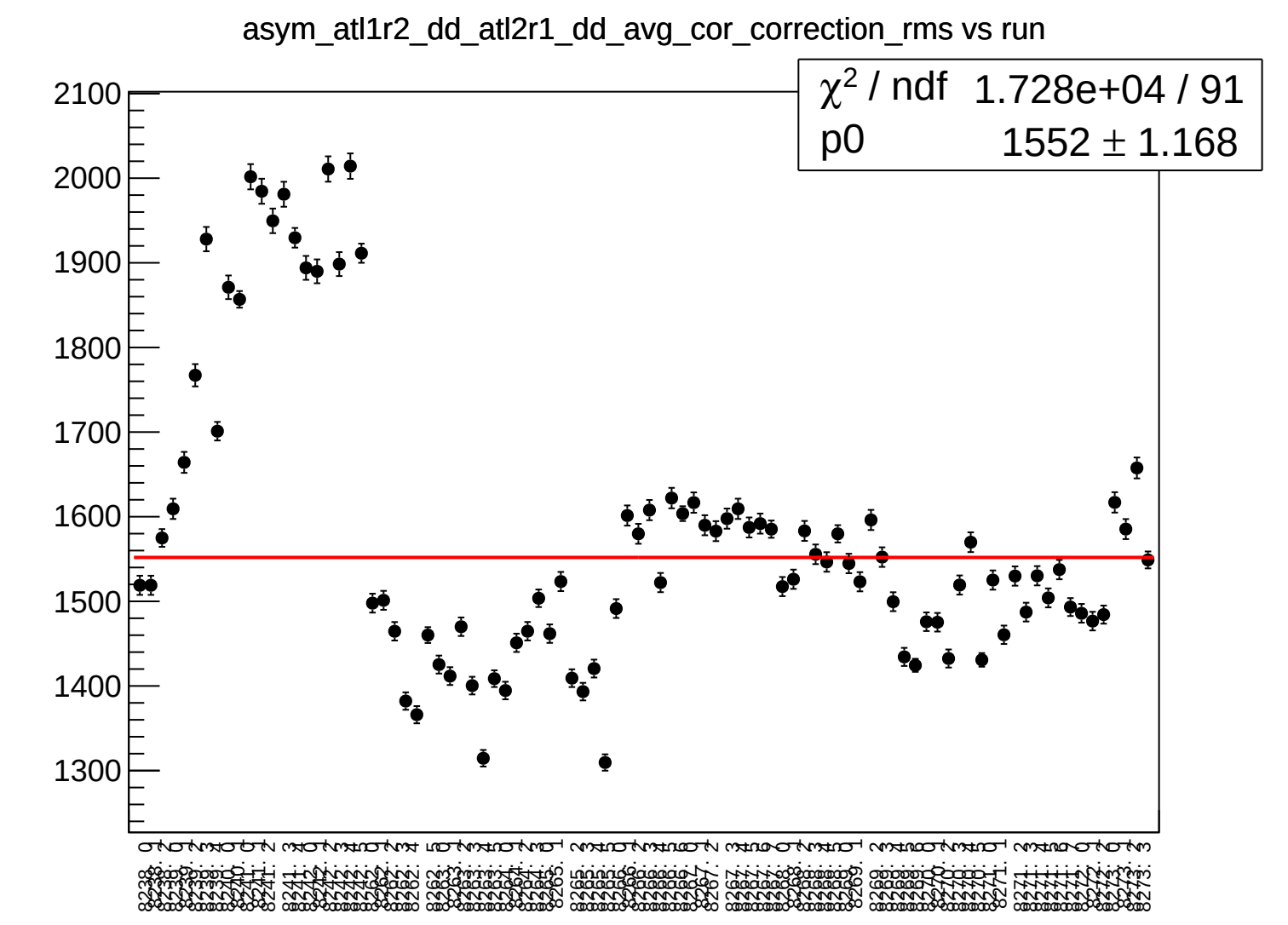

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 1.728e+04 / 91
p0 1552 ± 1.168
2100
2000
1900
1800
1700
1600
1500
1400
1300

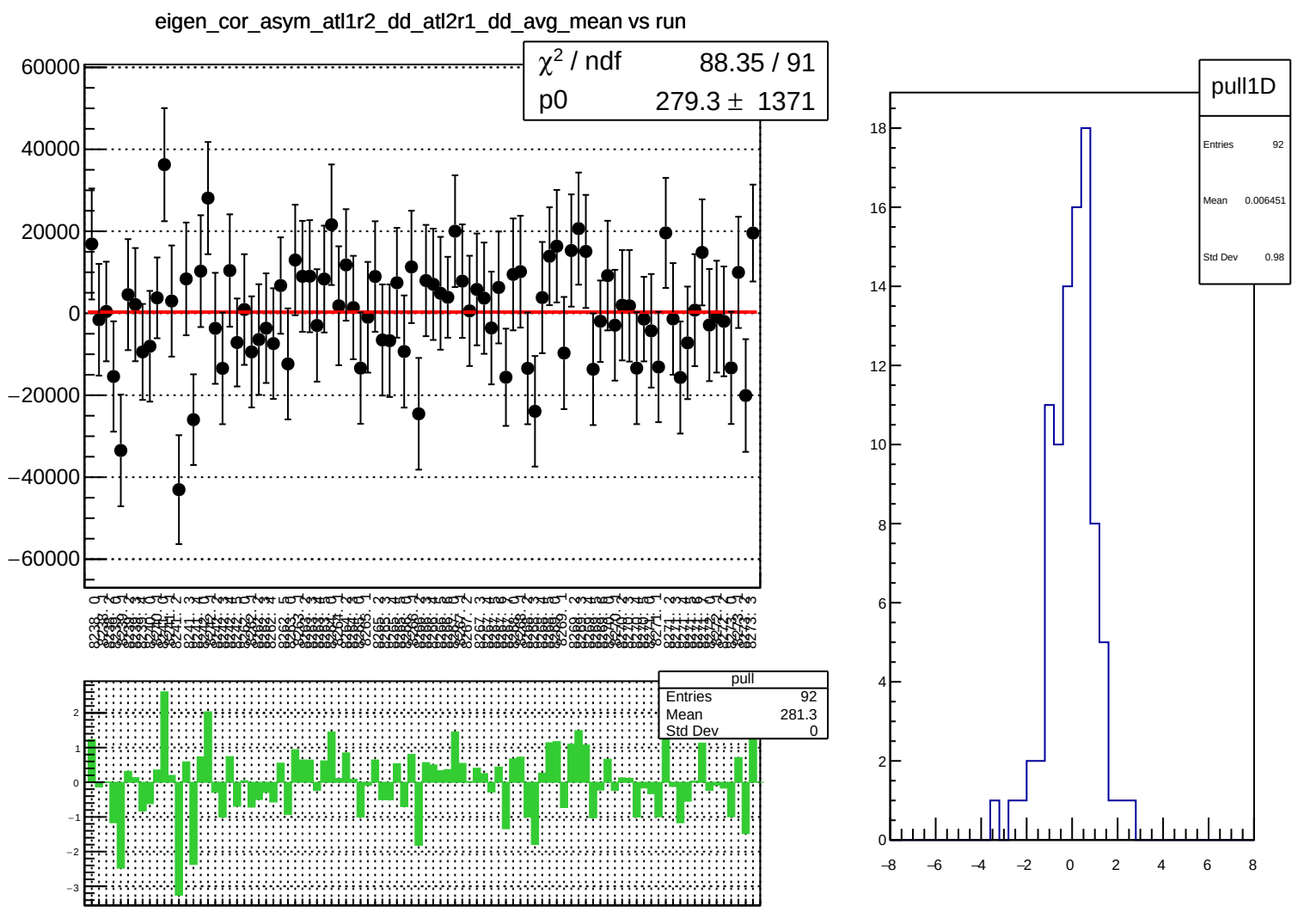

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 88.35 / 91
p0 279.3 ± 1371
pull
Entries 92
Mean 281.3
Std Dev 0
pull1D
Entries 92
Mean 0.006451
Std Dev 0.98

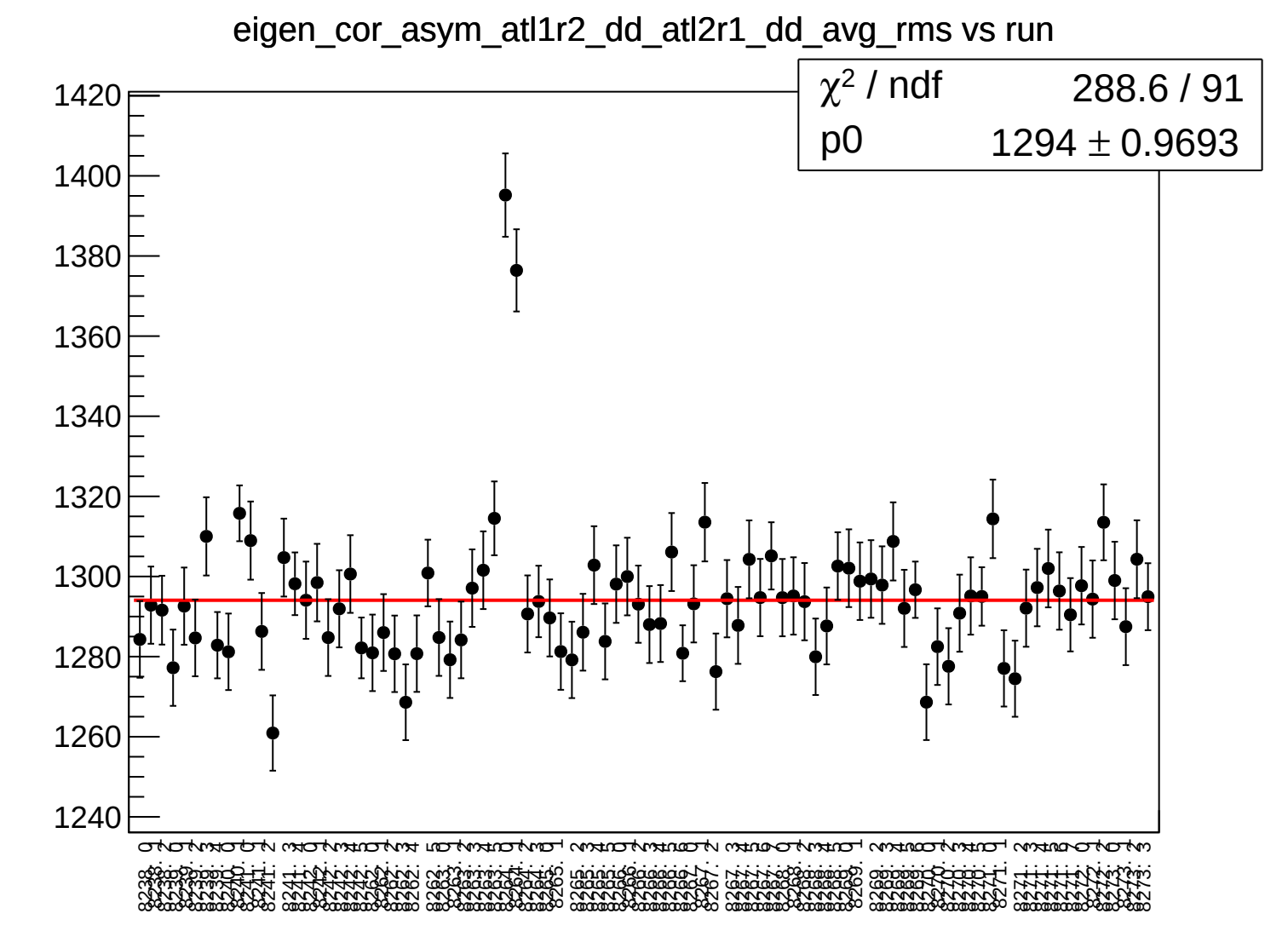

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 288.6 / 91
p0 1294 ± 0.9693
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

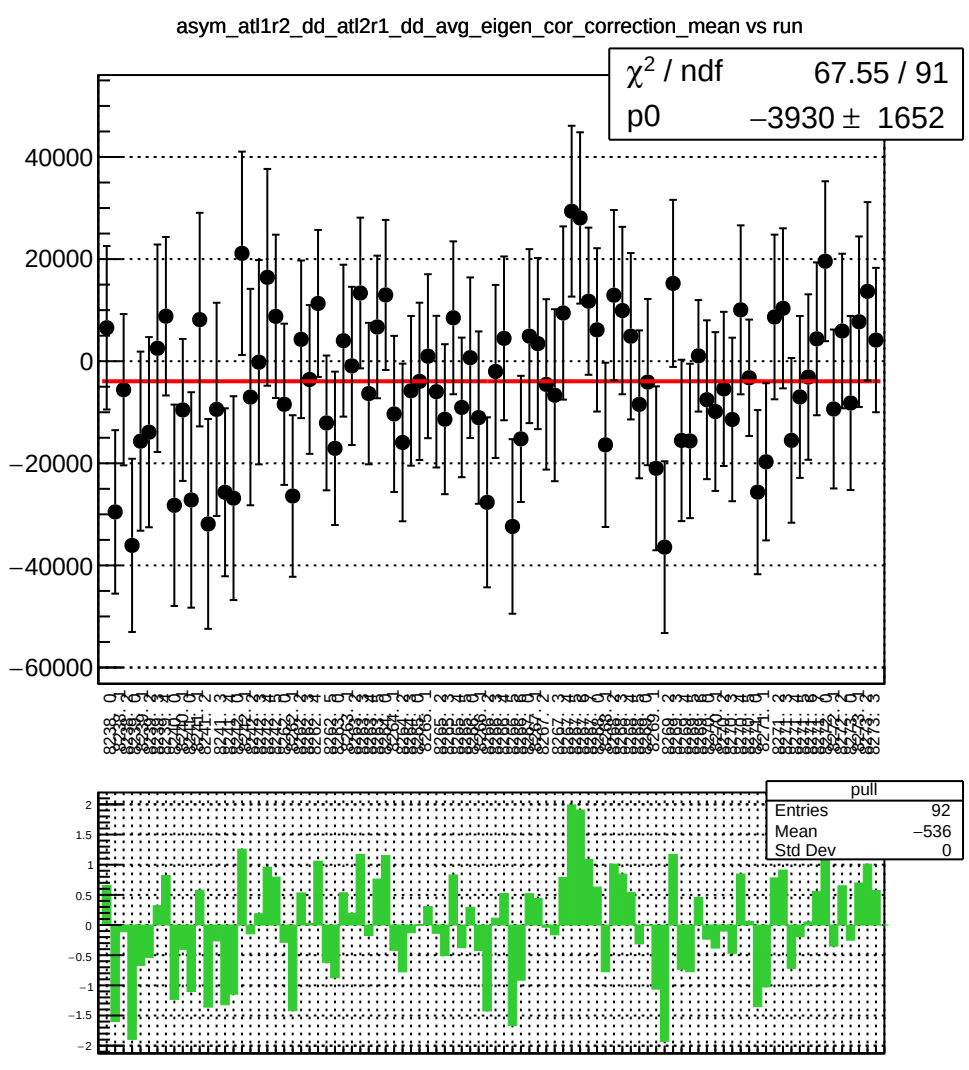

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 67.55 / 91
p0 −3930 ± 1652
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −536
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

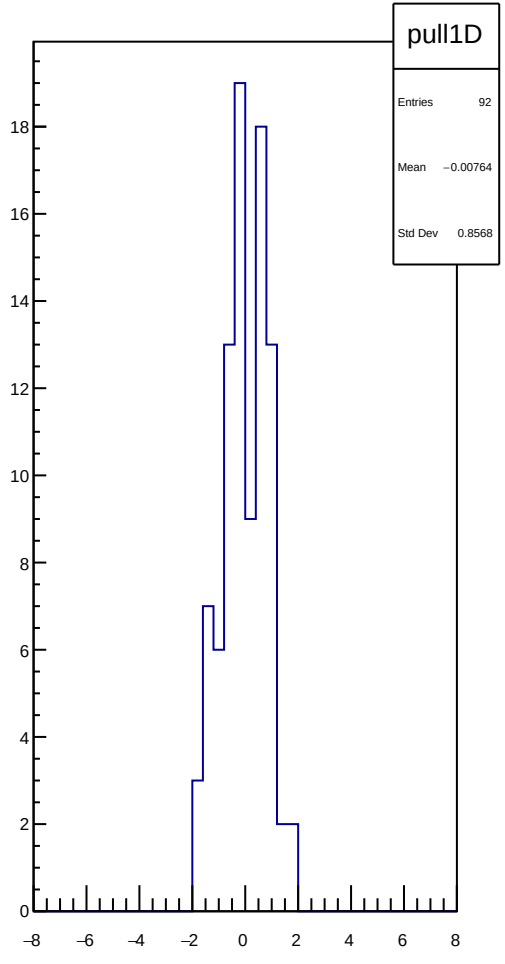

pull1D
Entries 92
Mean −0.00764
Std Dev 0.8568
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

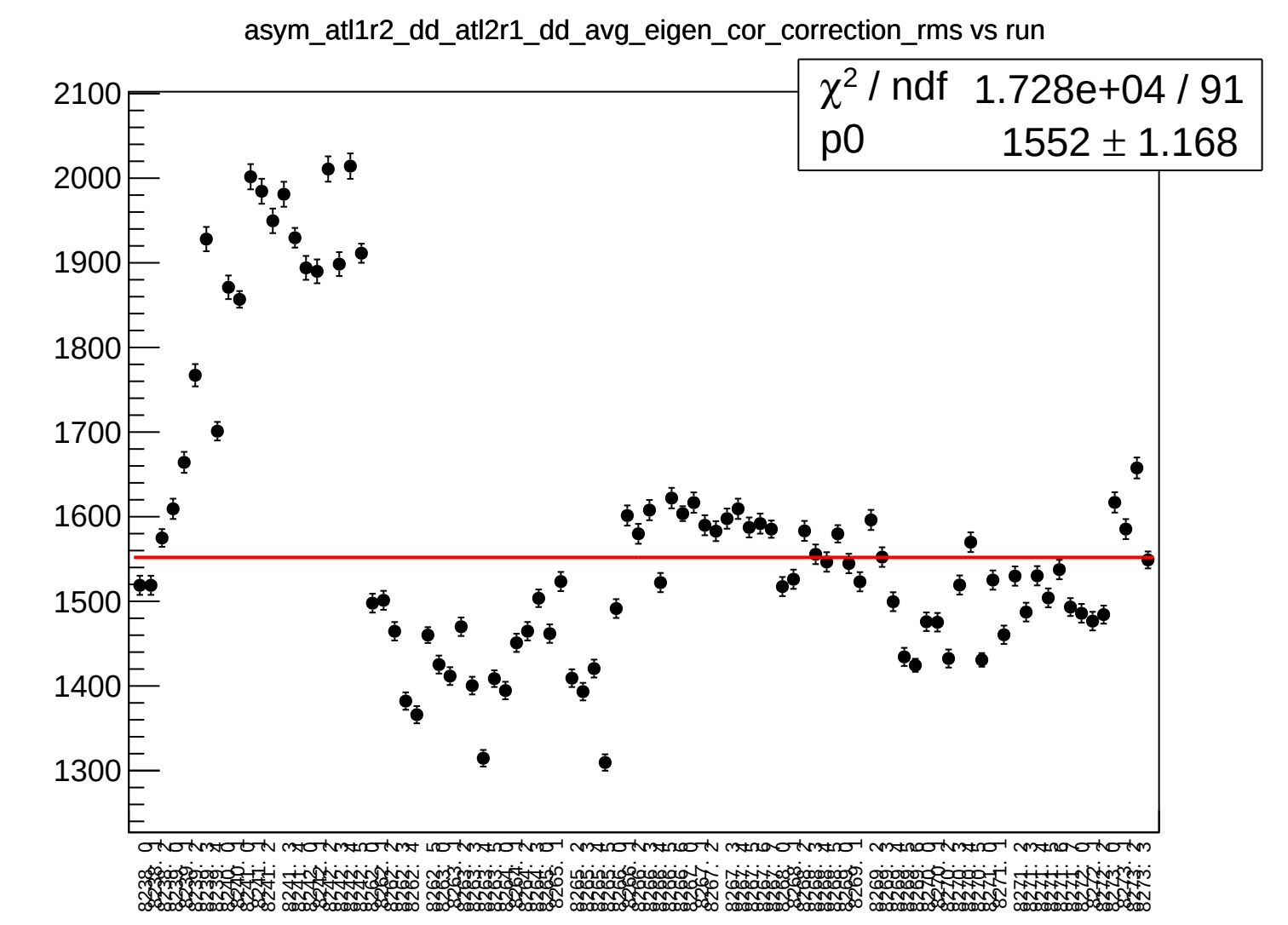

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 1.728e+04 / 91
p0 1552 ± 1.168
2100
2000
1900
1800
1700
1600
1500
1400
1300

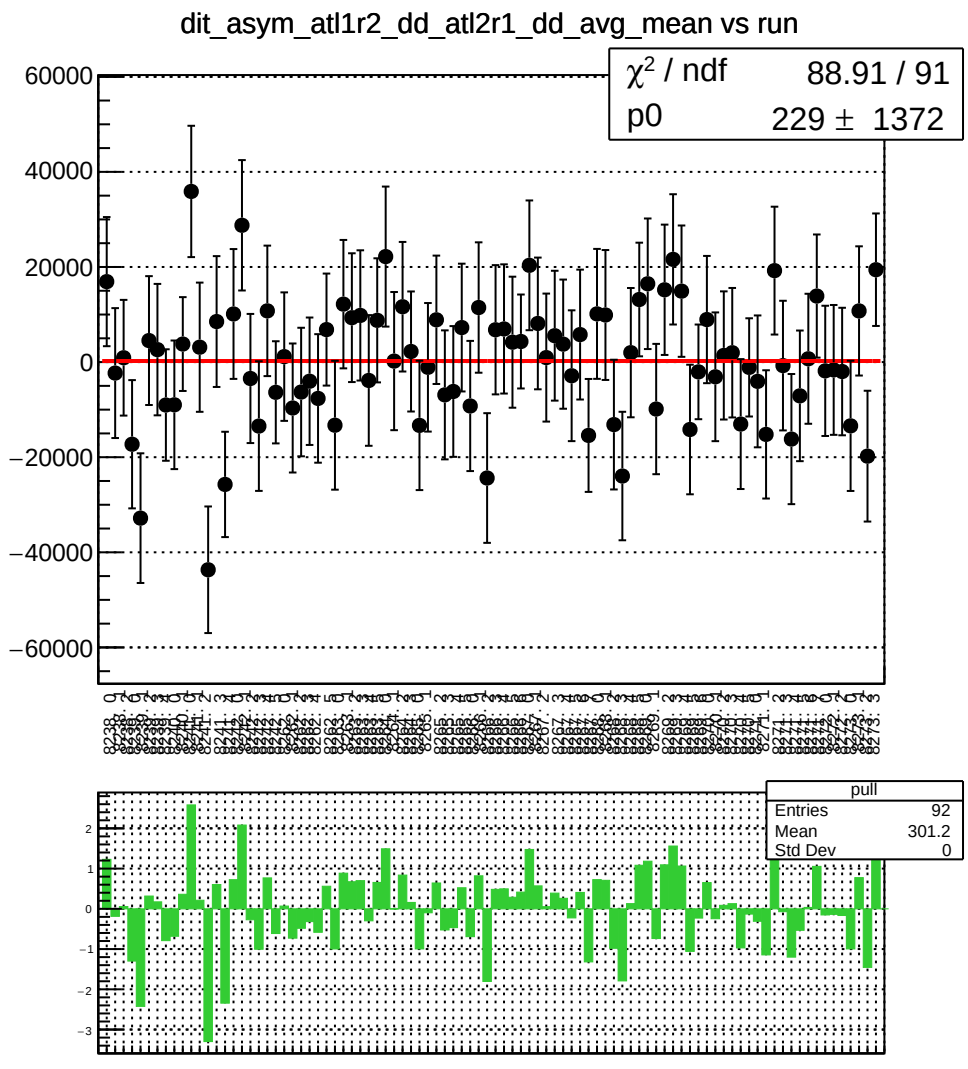

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 88.35 / 91
p0 279.3 ± 1371
pull
Entries 92
Mean 281.3
Std Dev 0
pull1D
Entries 92
Mean 0.006451
Std Dev 0.98

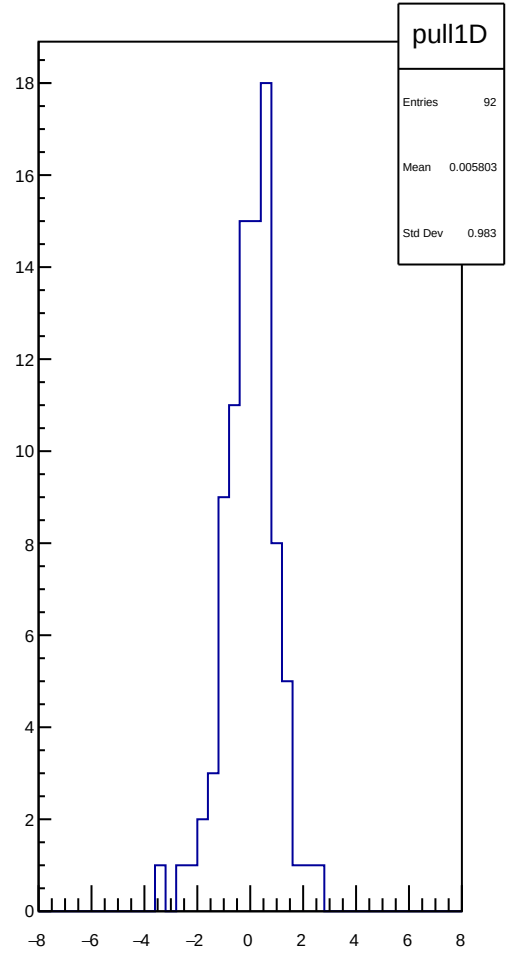

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 288.6 / 91
p0 1294 ± 0.9693
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

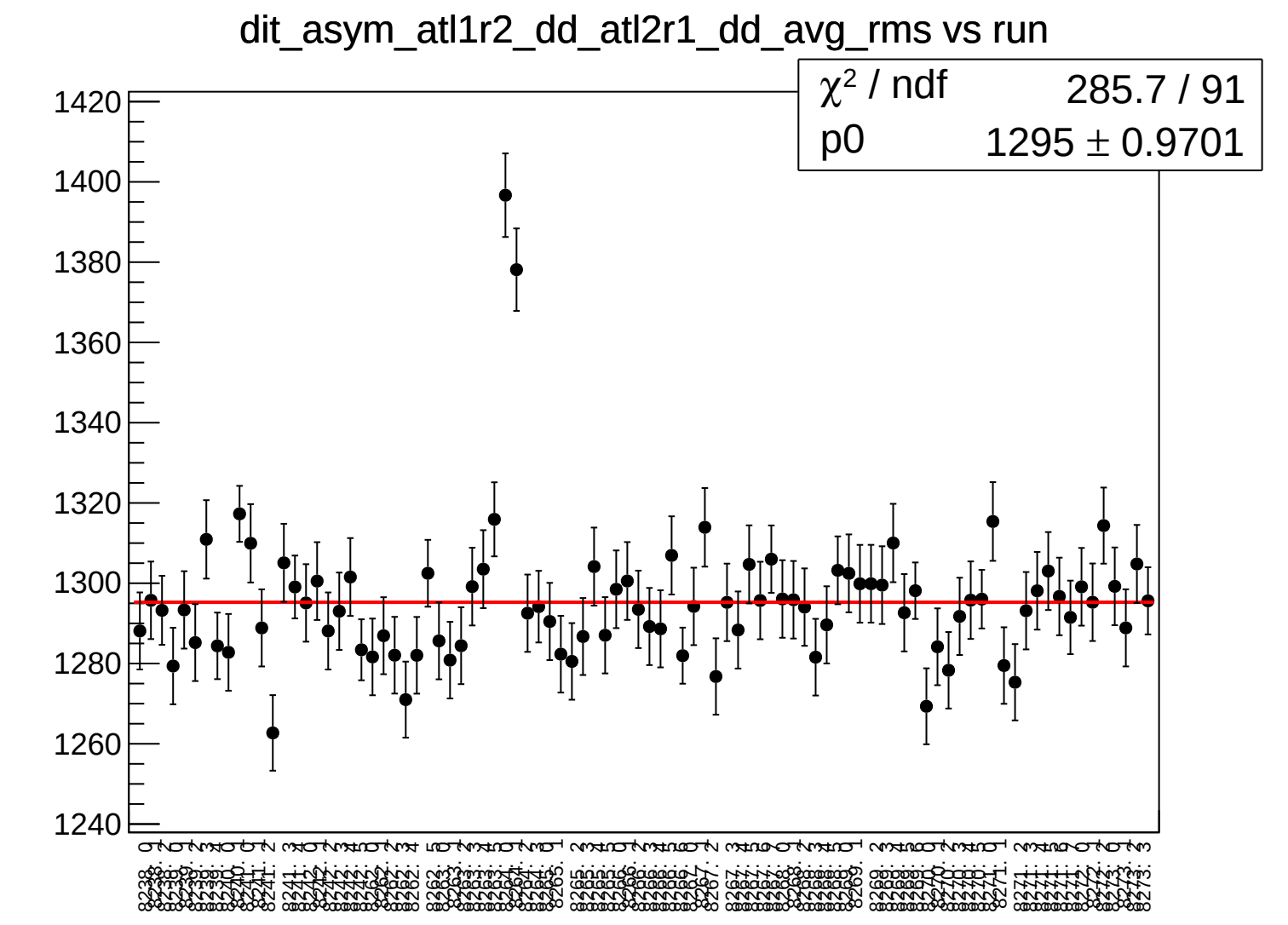

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 67.55 / 91
p0 −3930 ± 1652
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −536
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

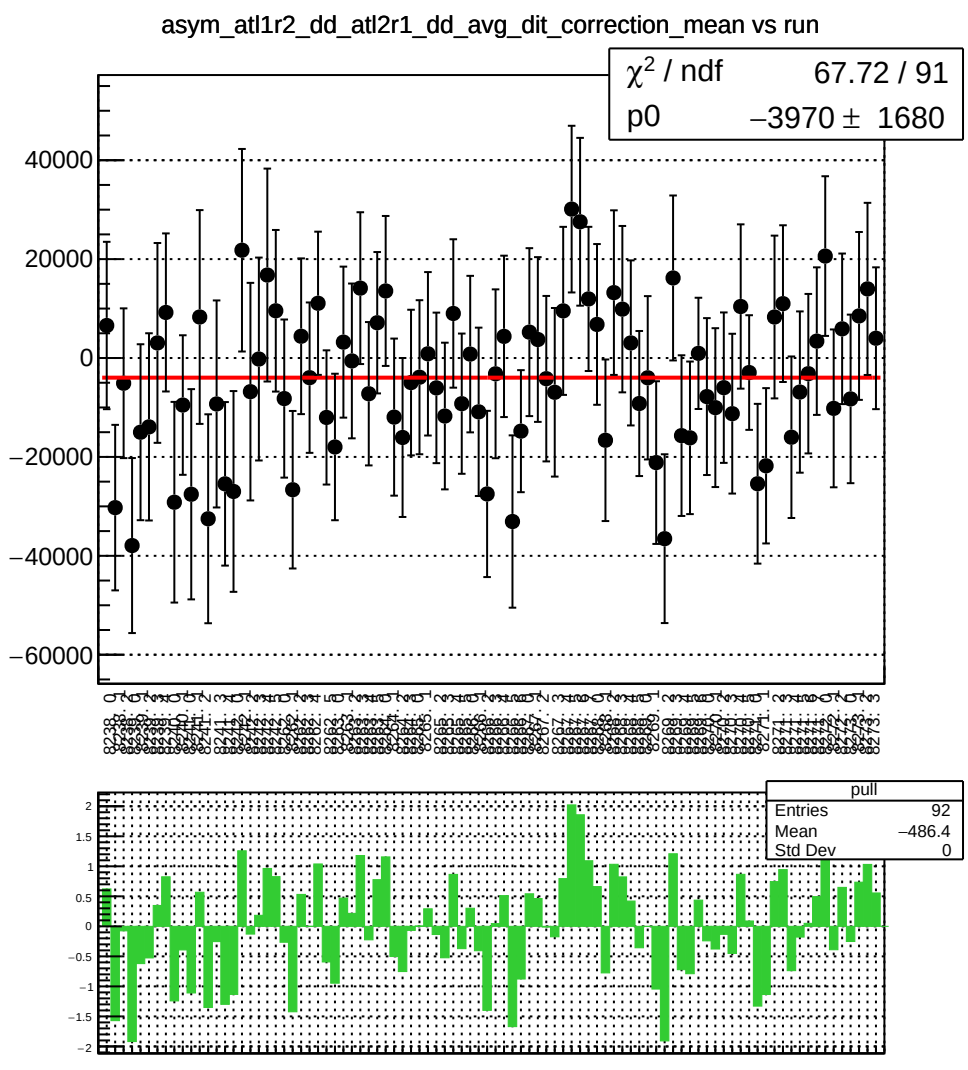

pull1D
Entries 92
Mean −0.00764
Std Dev 0.8568
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

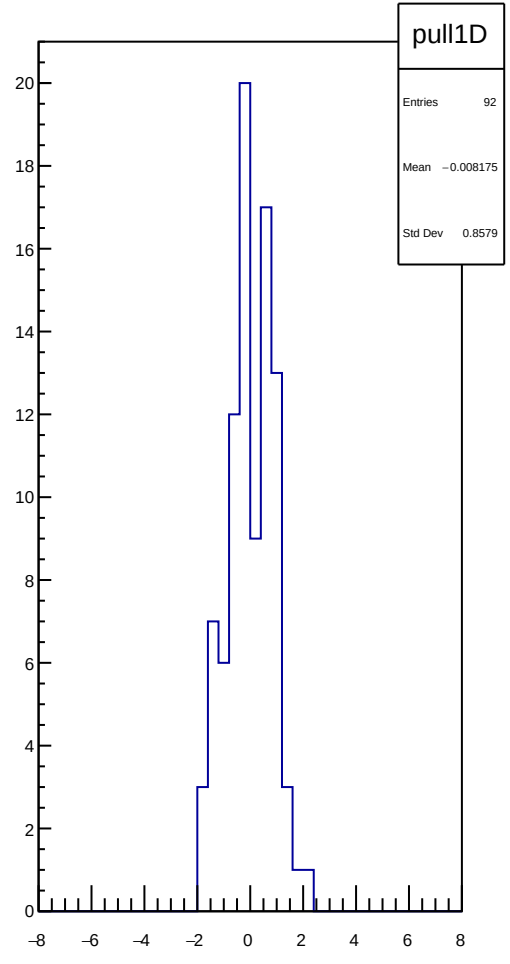

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.728e+04 / 91
p0 1552 ± 1.168
2100
2000
1900
1800
1700
1600
1500
1400
1300

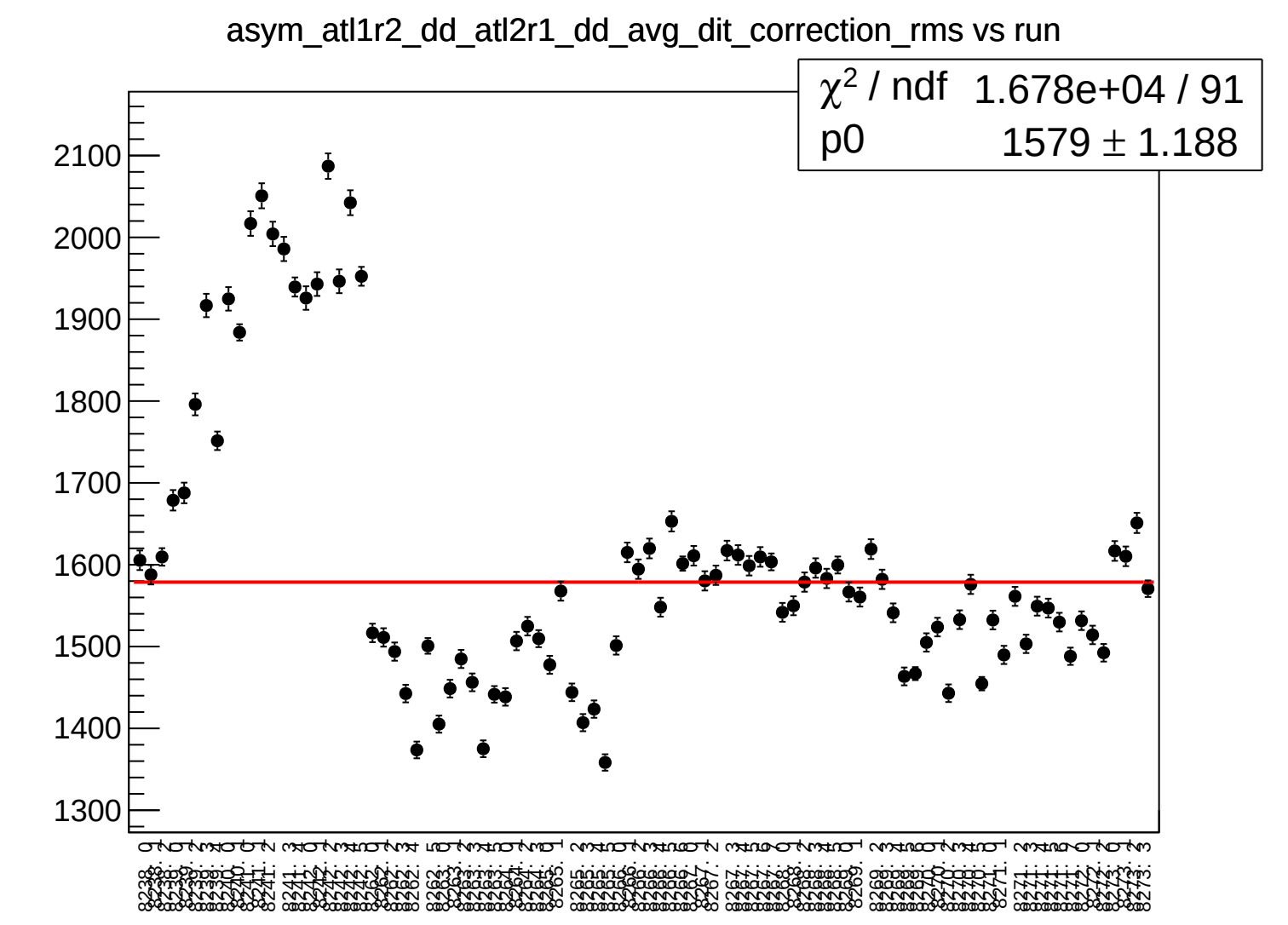

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 88.91 / 91
p0 229 ± 1372
pull
Entries 92
Mean 301.2
Std Dev 0

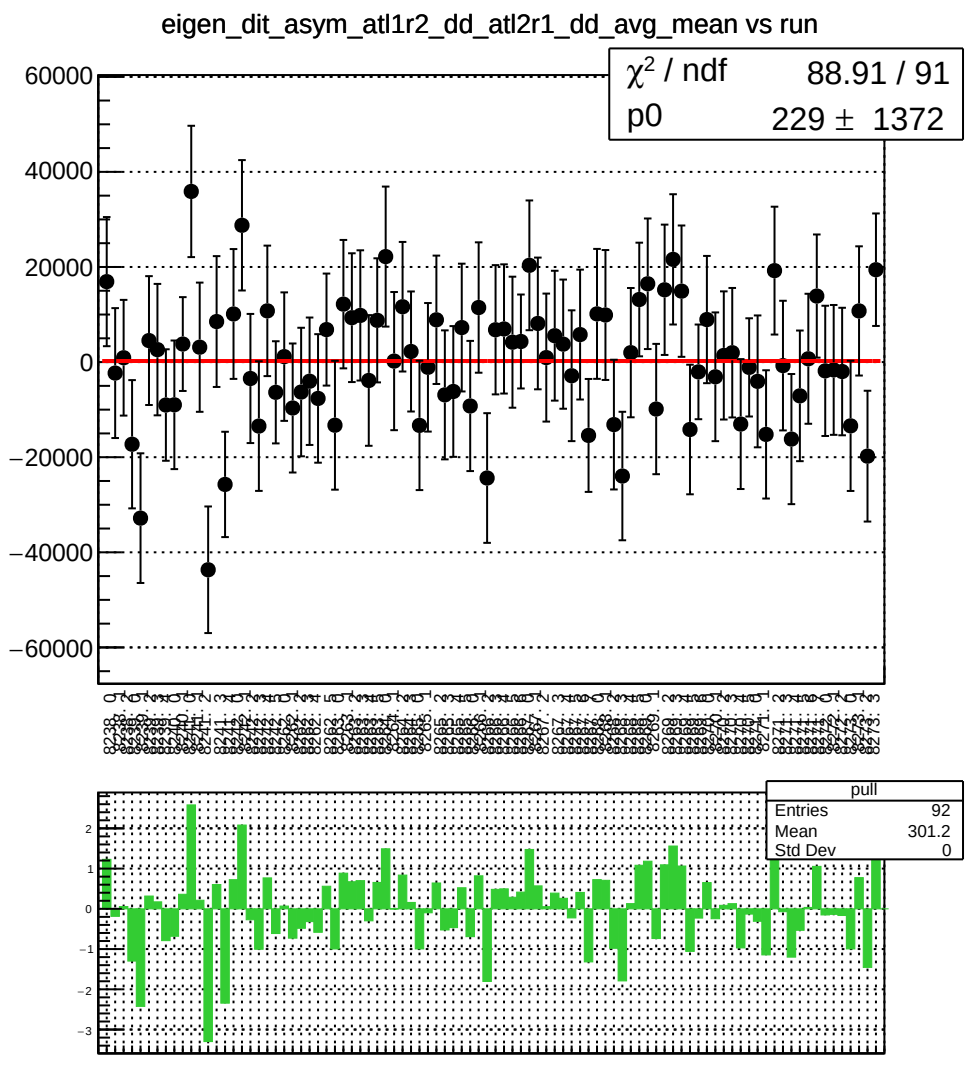

pull1D
Entries 92
Mean 0.005803
Std Dev 0.983

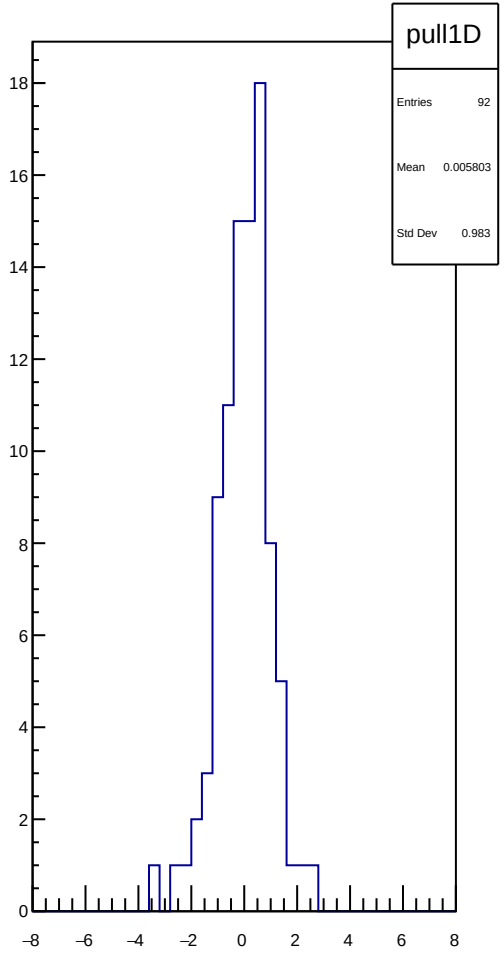

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 285.7 / 91
p0 1295 ± 0.9701
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

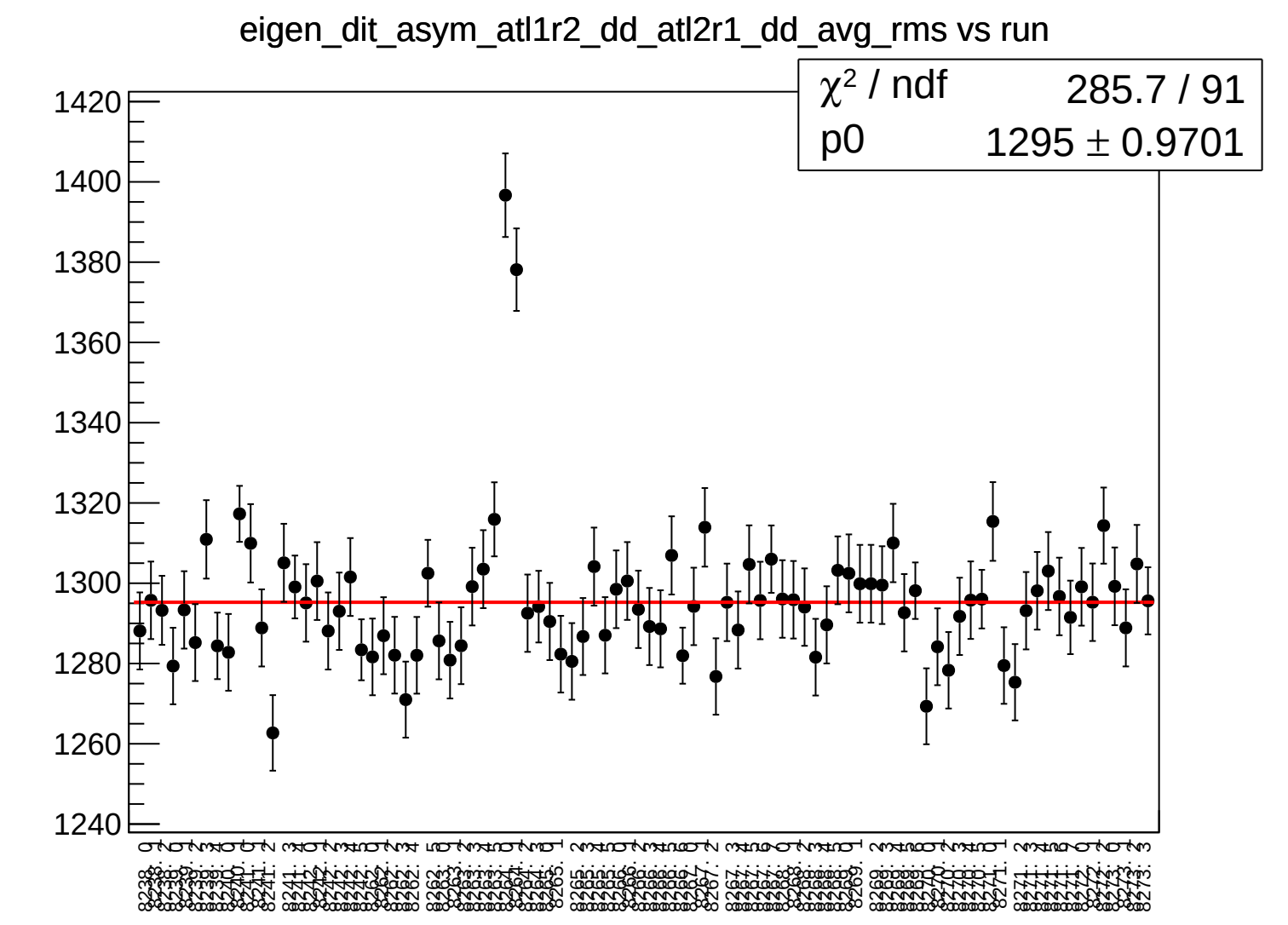

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 67.72 / 91
p0 −3970 ± 1680
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −486.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

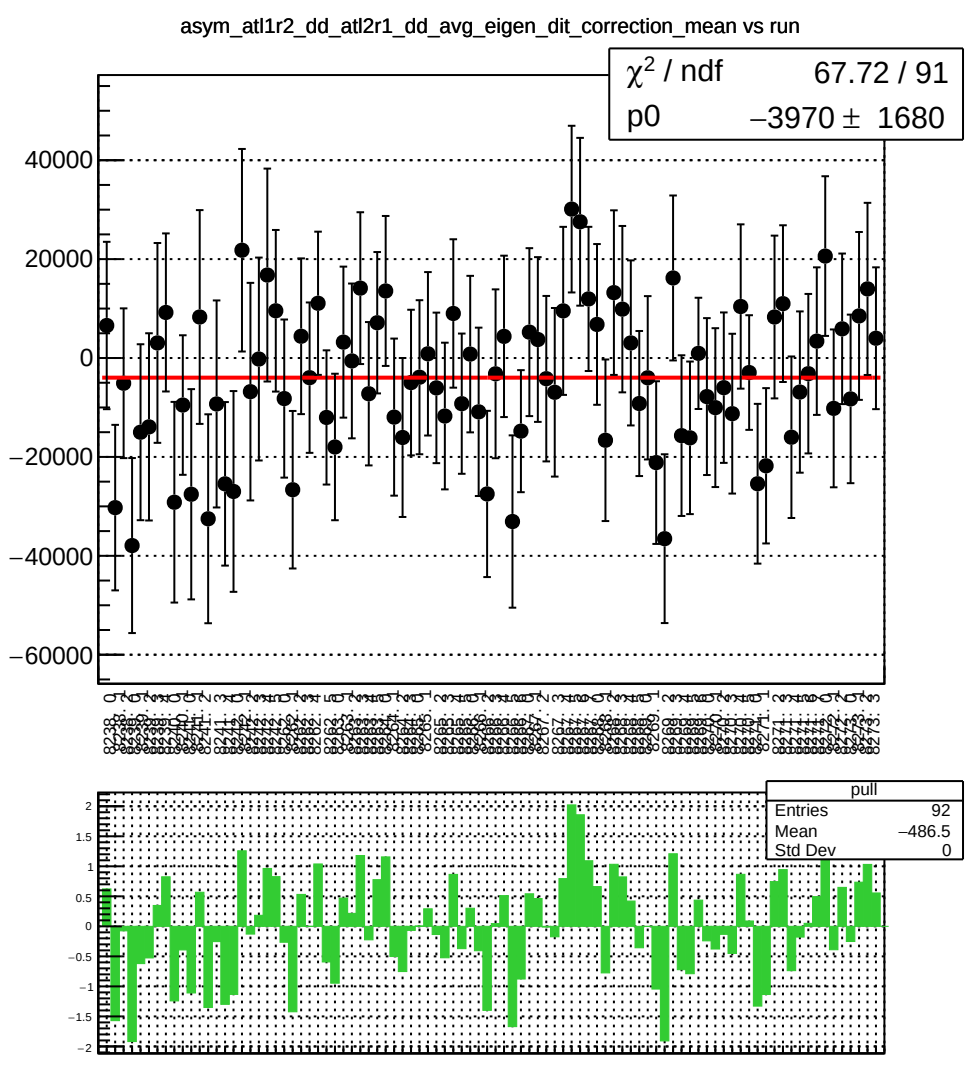

pull1D
Entries 92
Mean −0.008175
Std Dev 0.8579
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

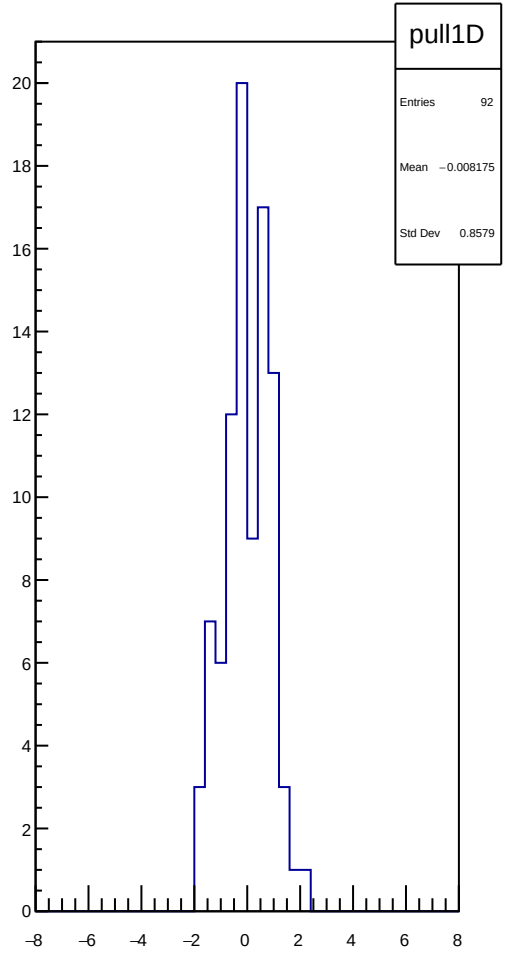

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 1.678e+04 / 91
p0 1579 ± 1.188
2100
2000
1900
1800
1700
1600
1500
1400
1300

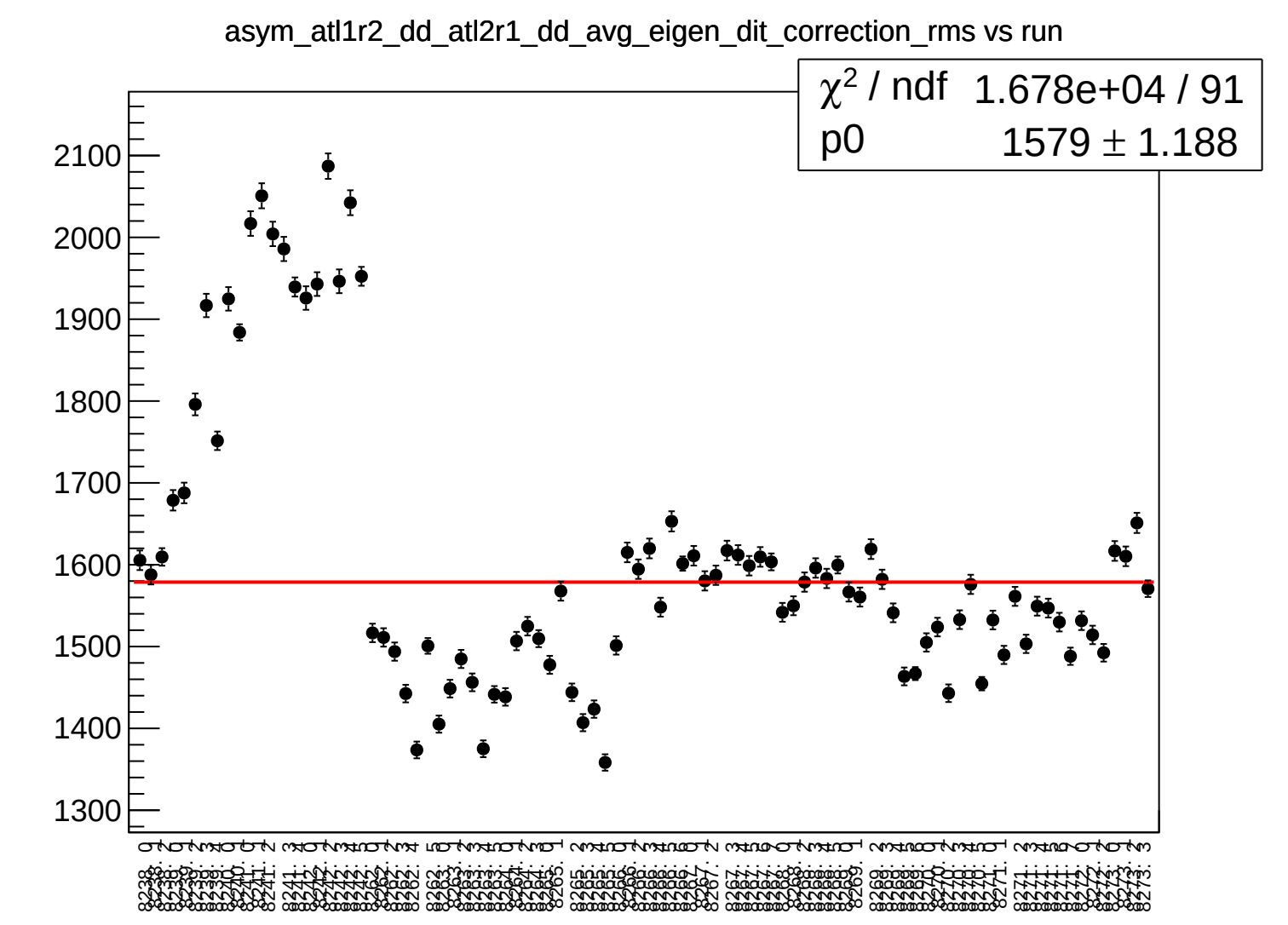

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 88.91 / 91
p0 229 ± 1372
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 301.2
Std Dev 0
2
1
0
−1
−2
−3

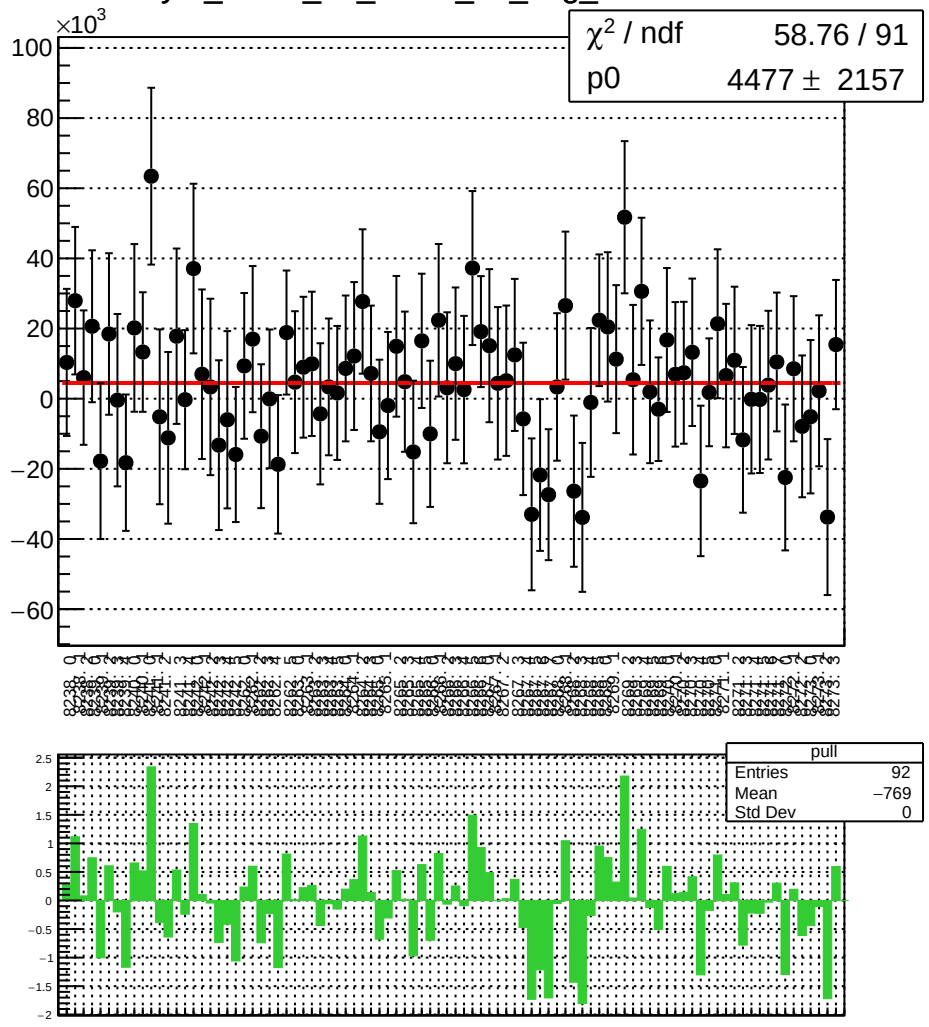

pull1D
Entries 92
Mean 0.005803
Std Dev 0.983
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

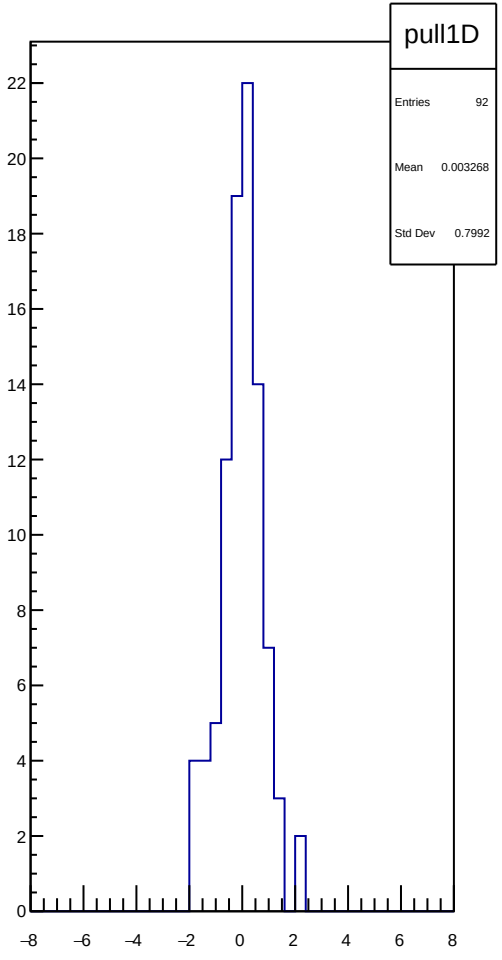

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 285.7 / 91
p0 1295 ± 0.9701
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240

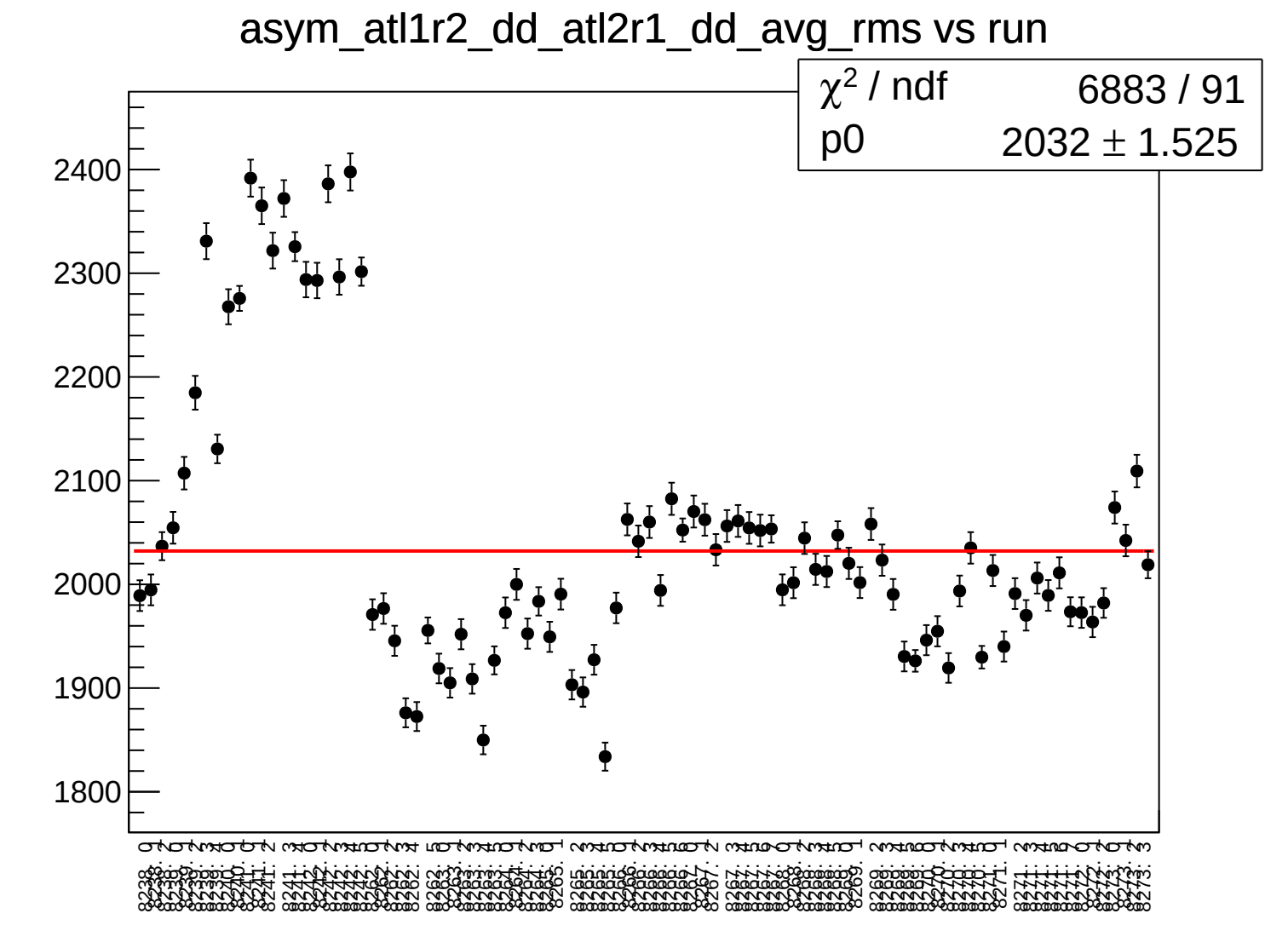

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 67.72 / 91
p0 −3970 ± 1680
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −486.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

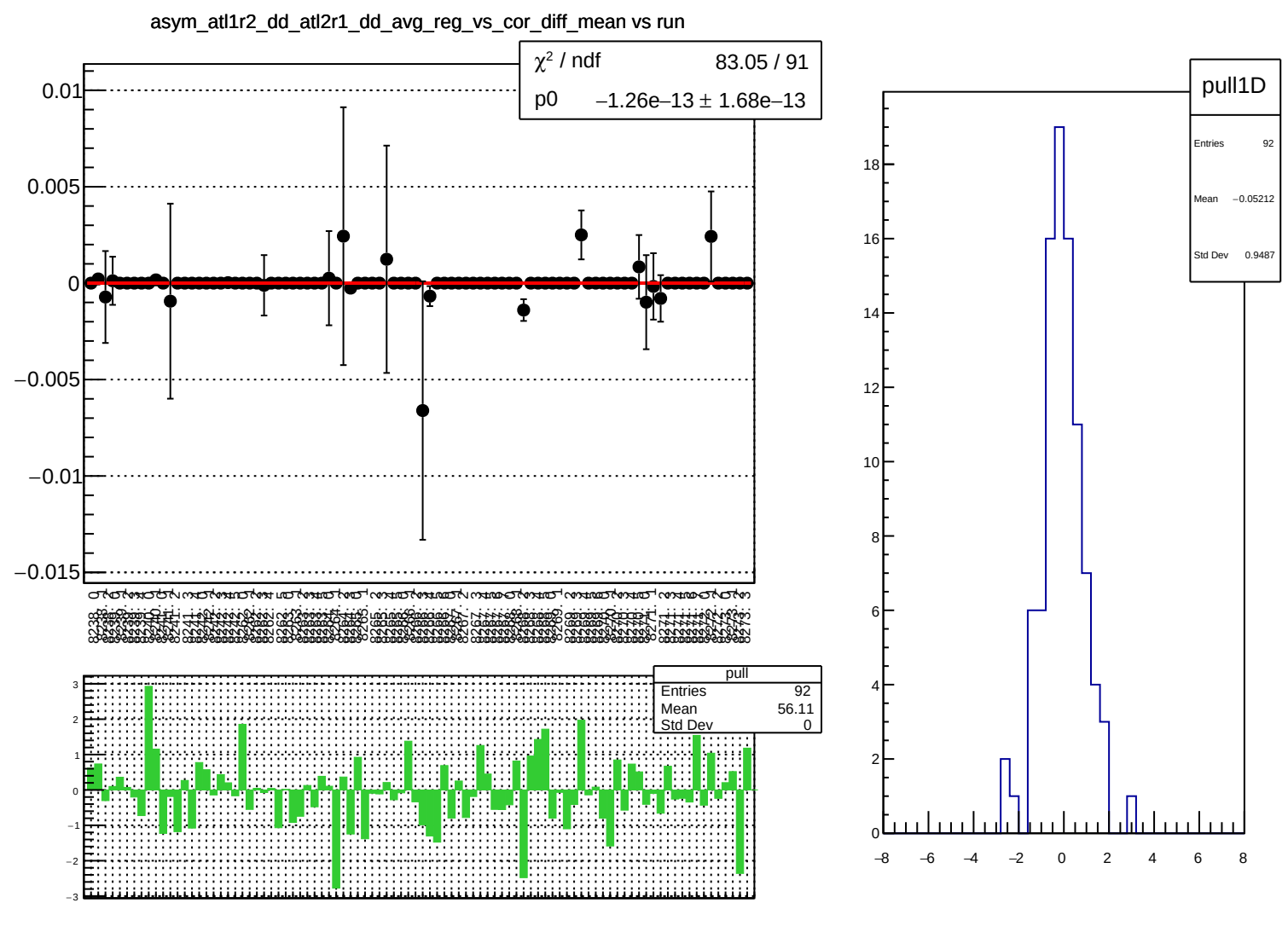

pull1D
Entries 92
Mean −0.008175
Std Dev 0.8579
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

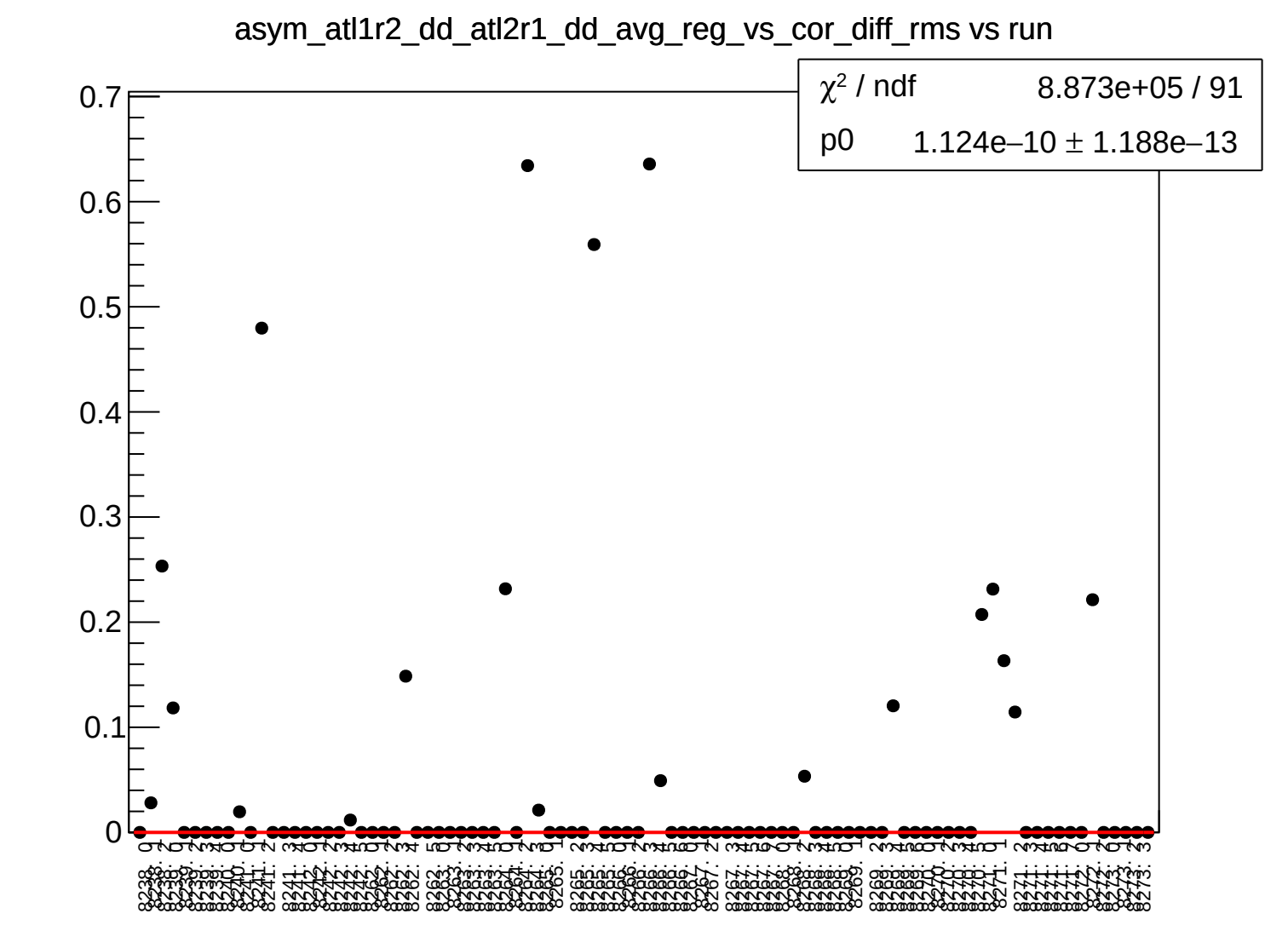

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.678e+04 / 91
p0 1579 ± 1.188
2100
2000
1900
1800
1700
1600
1500
1400
1300

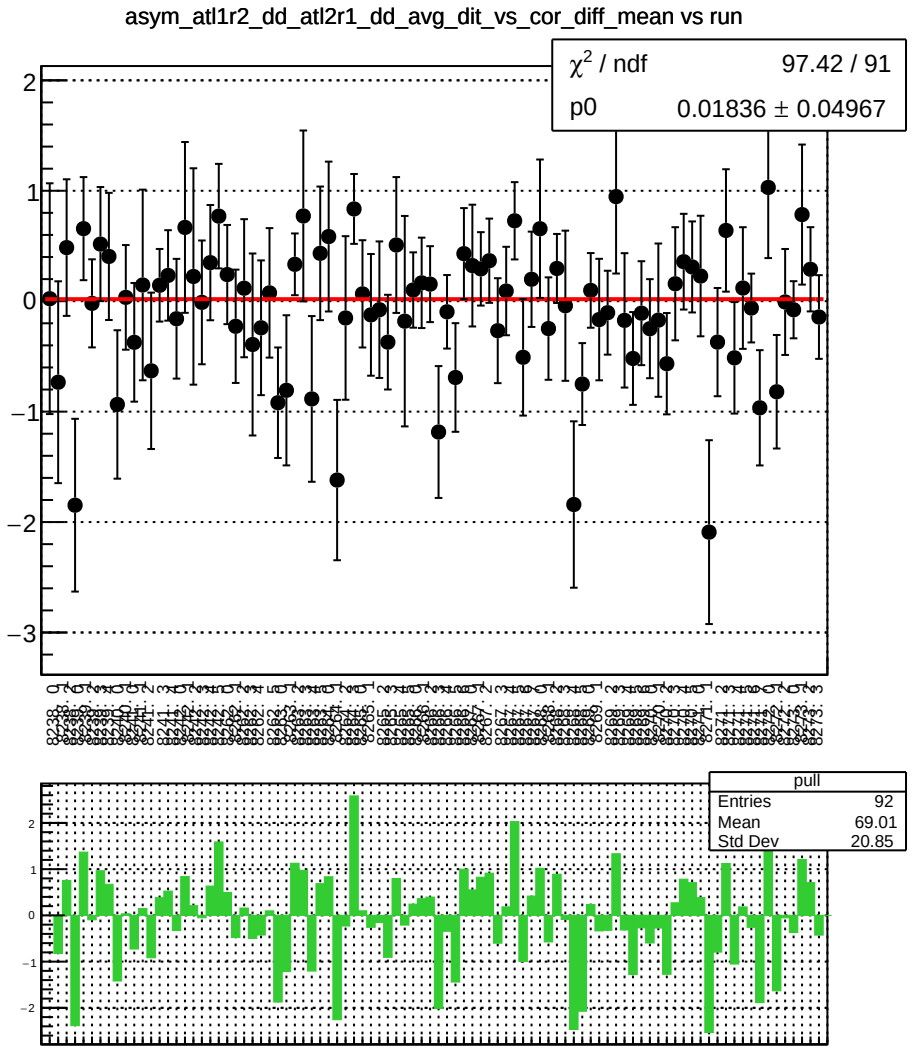

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ^2 / ndf 58.76 / 91
p0 4477 ± 2157
pull
Entries 92
Mean −769
Std Dev 0

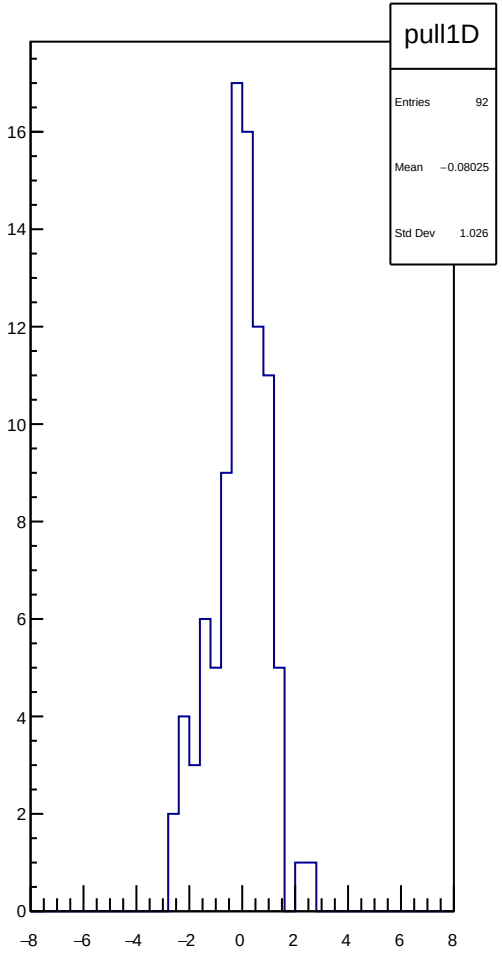

pull1D
Entries 92
Mean 0.003268
Std Dev 0.7992

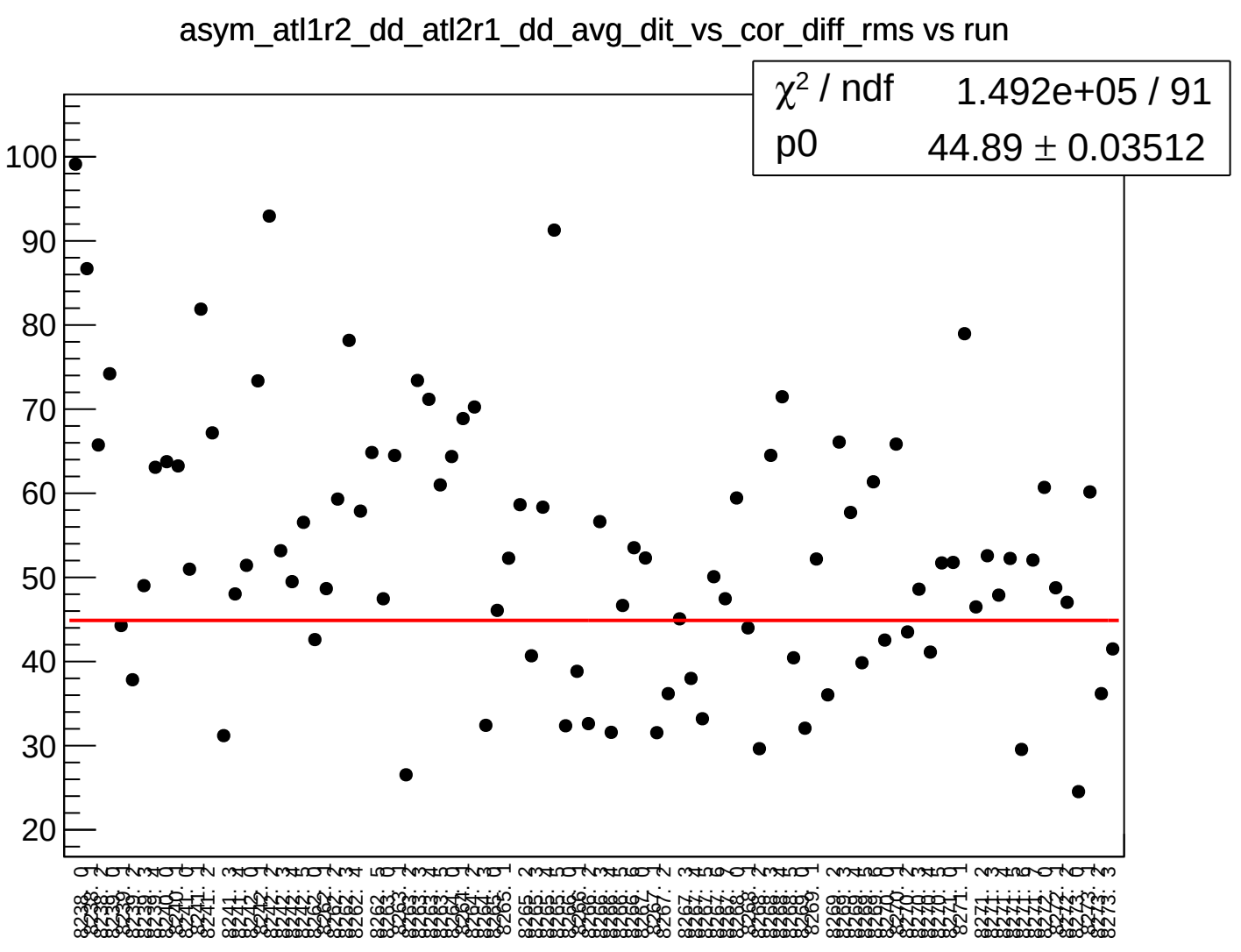

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
$\chi^2$ / ndf 6883 / 91
p0 2032 ± 1.525
2400
2300
2200
2100
2000
1900
1800

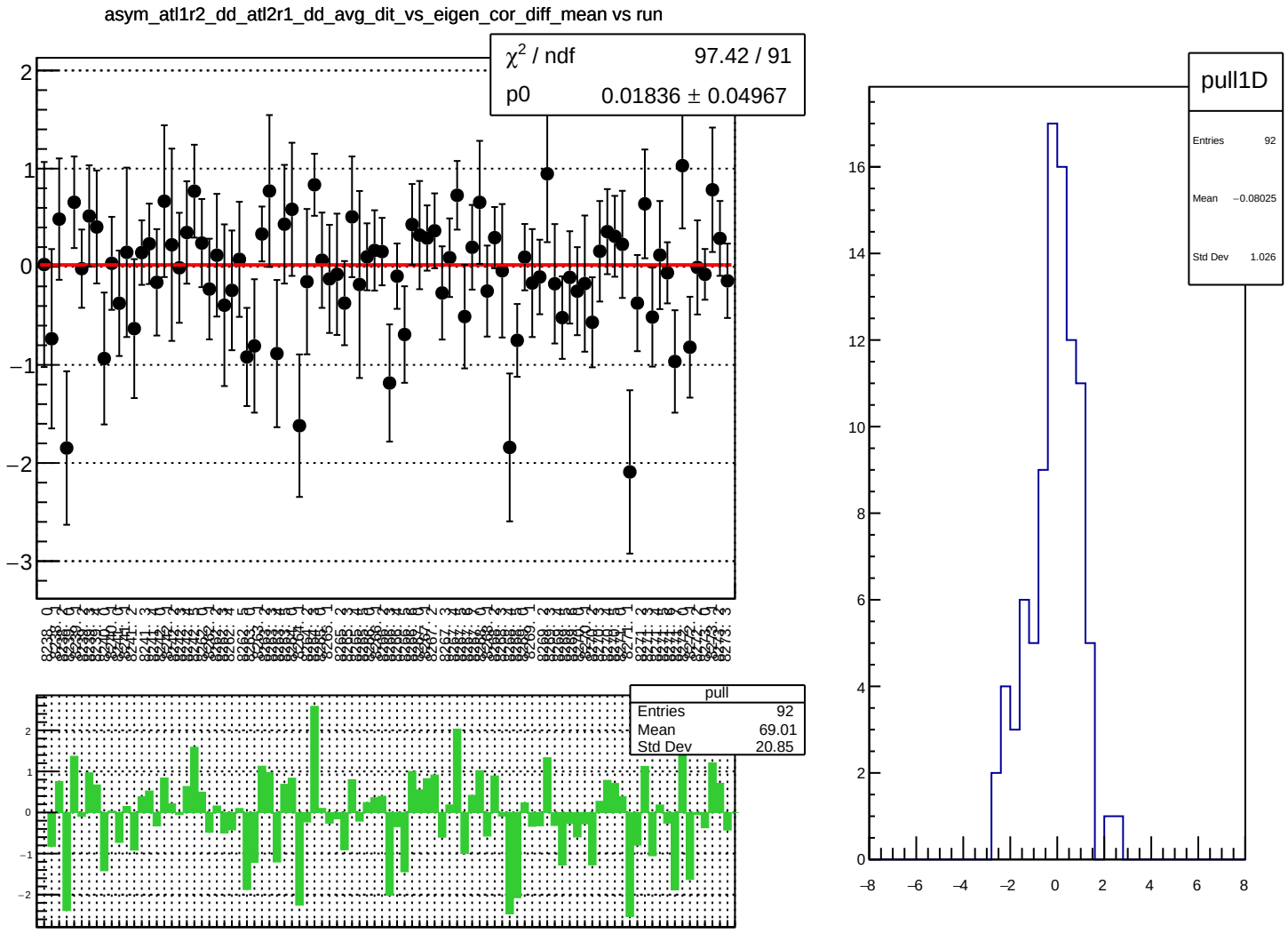

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.05 / 91
p0 −1.26e−13 ± 1.68e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean 56.11
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.05212
Std Dev 0.9487
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

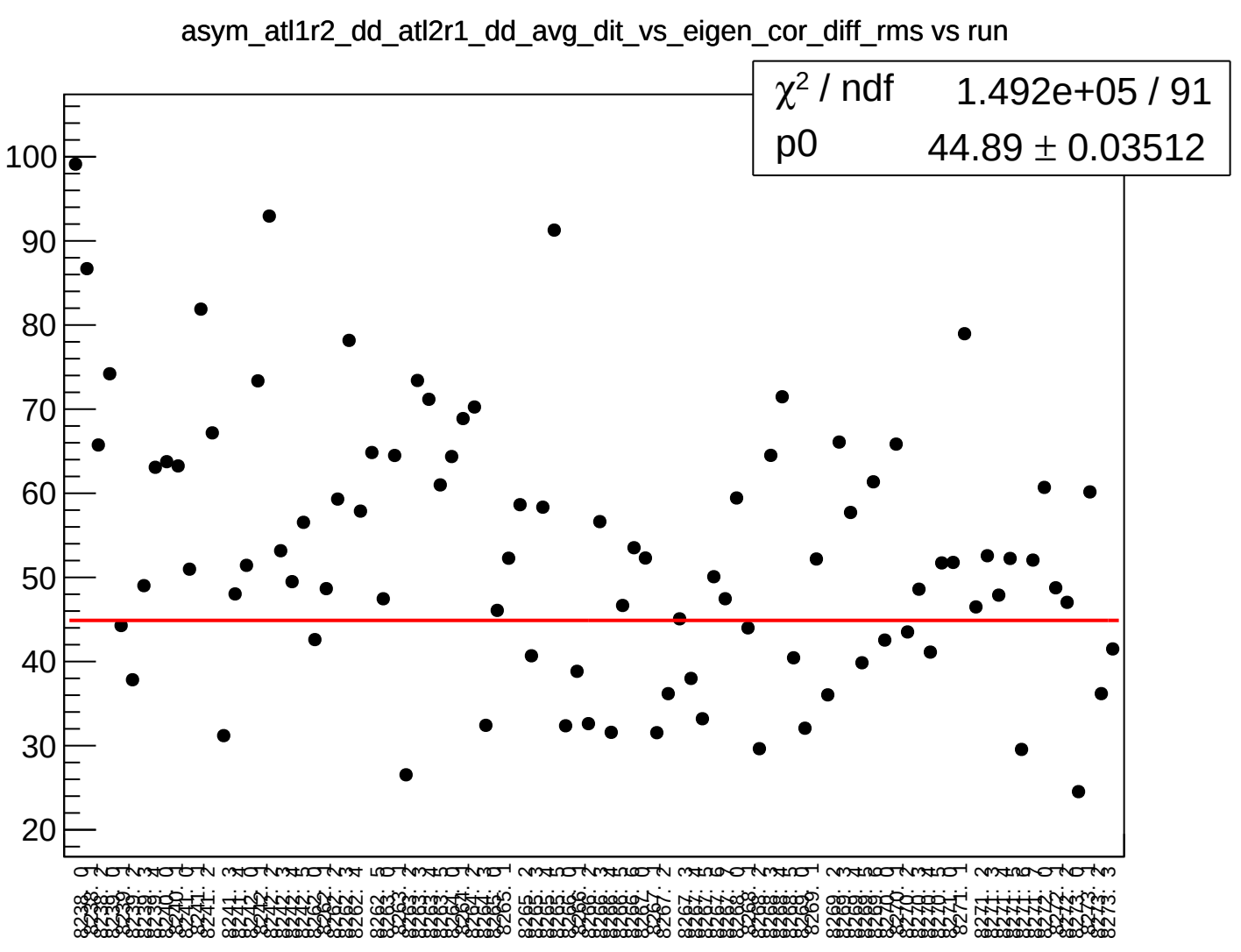

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.873e+05 / 91
p0 1.124e−10 ± 1.188e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

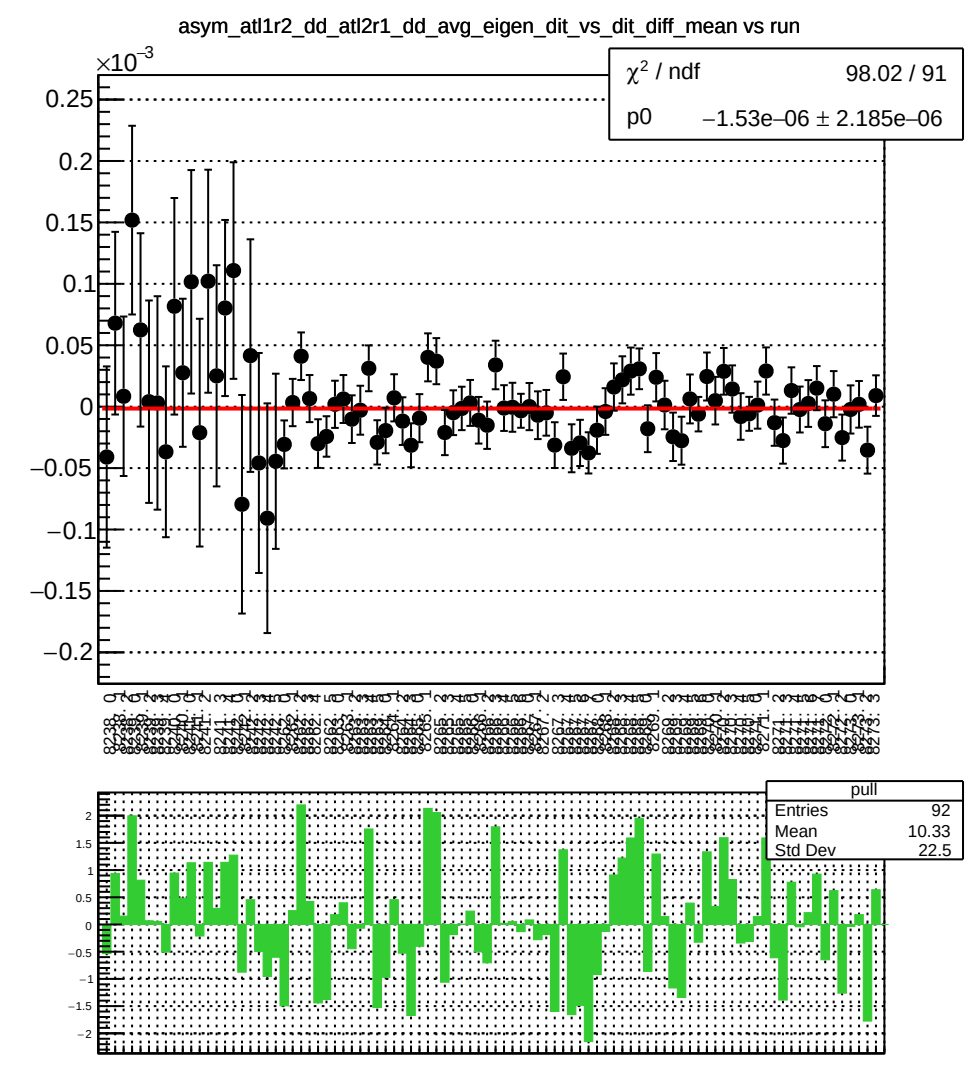

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.42 / 91
p0 0.01836 ± 0.04967
pull
Entries 92
Mean 69.01
Std Dev 20.85

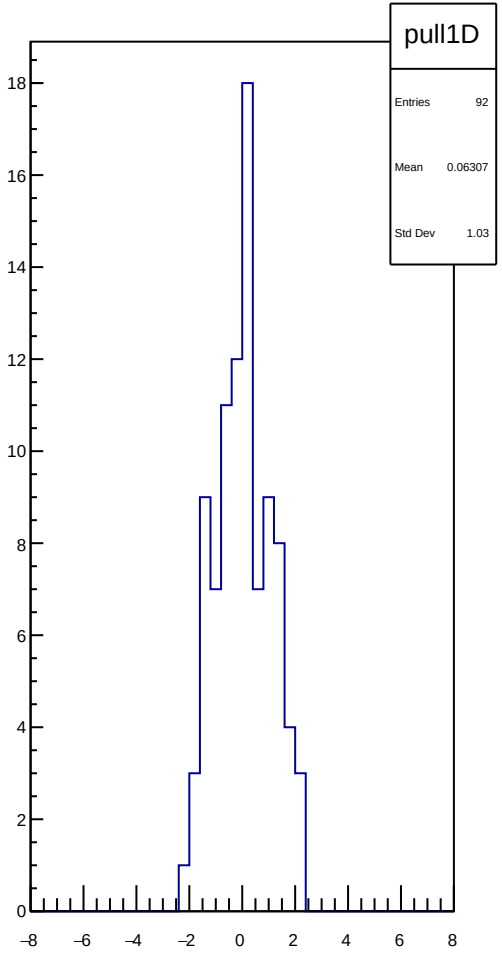

pull1D
Entries 92
Mean −0.08025
Std Dev 1.026

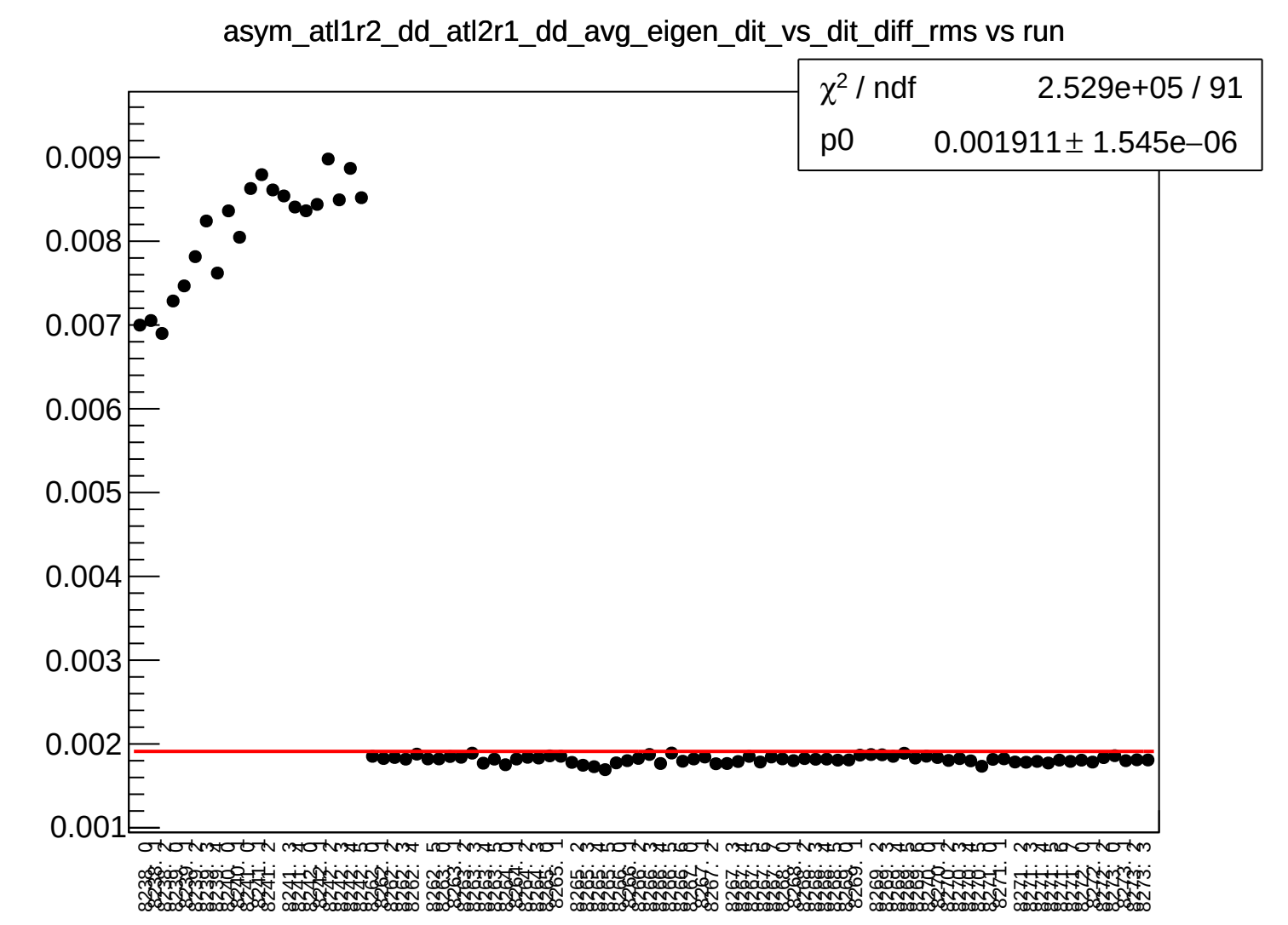

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.492e+05 / 91
p0 44.89 ± 0.03512
100
90
80
70
60
50
40
30
20

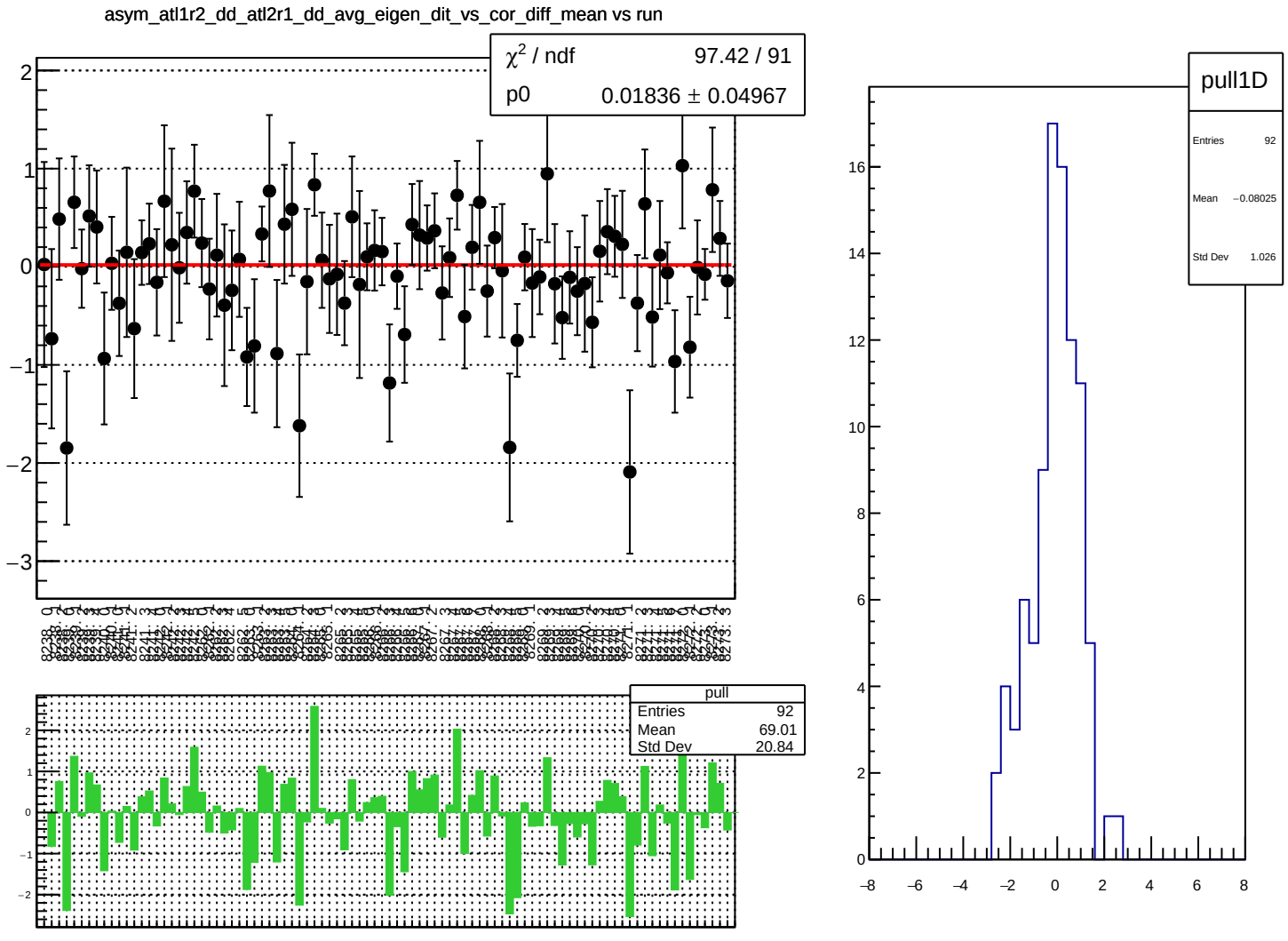

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.42 / 91
p0 0.01836 ± 0.04967
pull
Entries 92
Mean 69.01
Std Dev 20.85
pull1D
Entries 92
Mean −0.08025
Std Dev 1.026

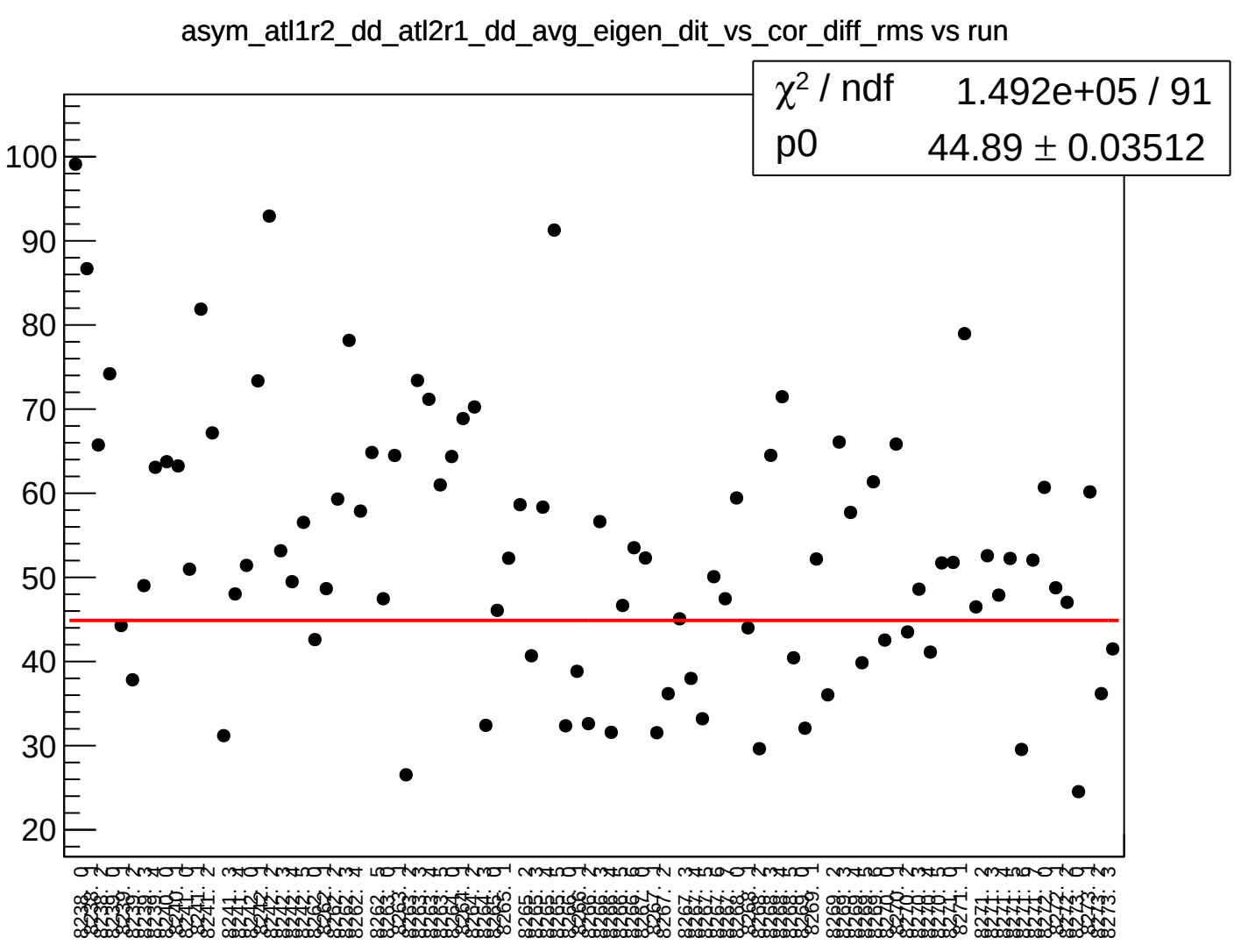

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.492e+05 / 91
p0 44.89 ± 0.03512
100
90
80
70
60
50
40
30
20

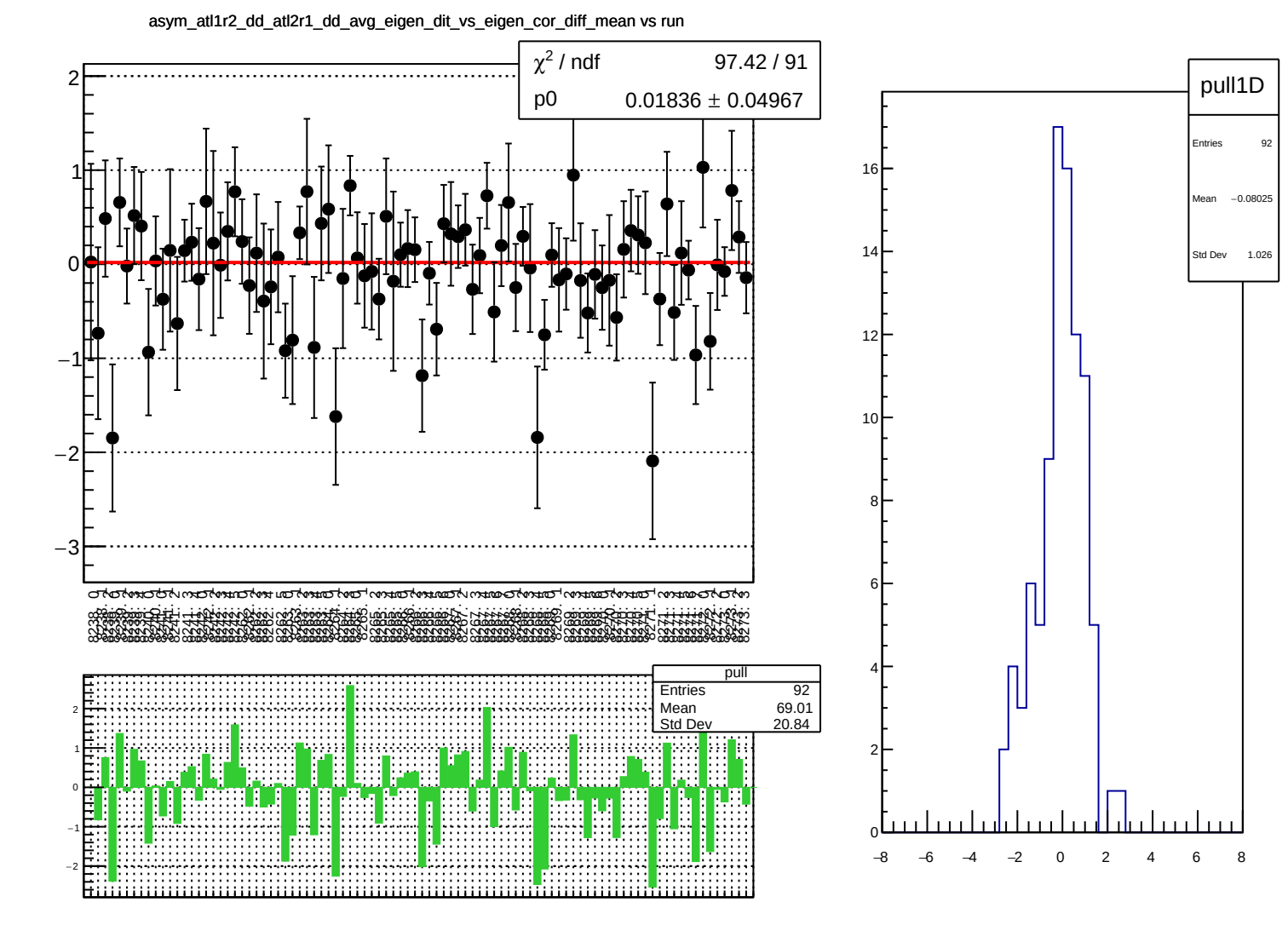

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.02 / 91
p0 −1.53e−06 ± 2.185e−06
pull
Entries 92
Mean 10.33
Std Dev 22.5

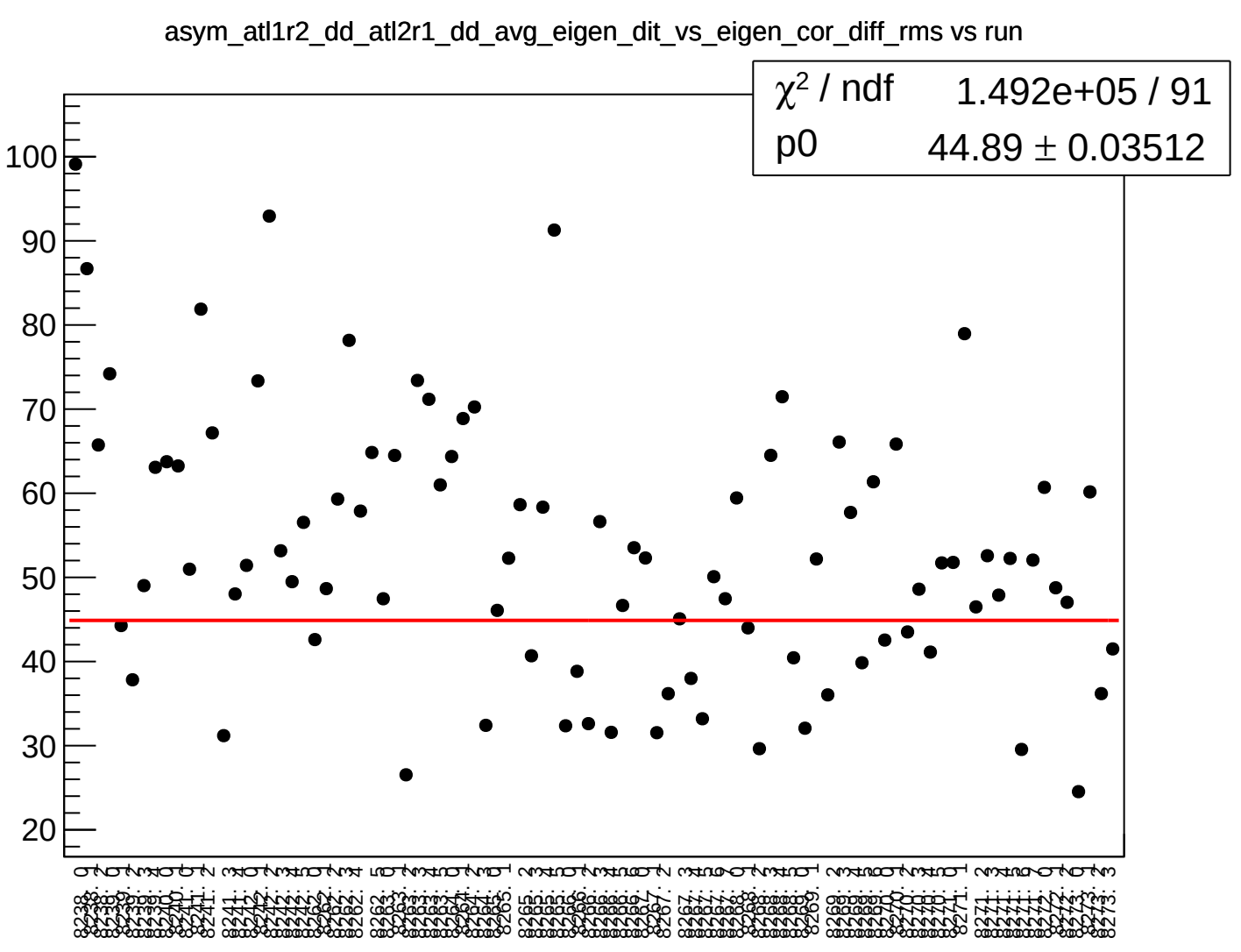

pull1D
Entries 92
Mean 0.06307
Std Dev 1.03

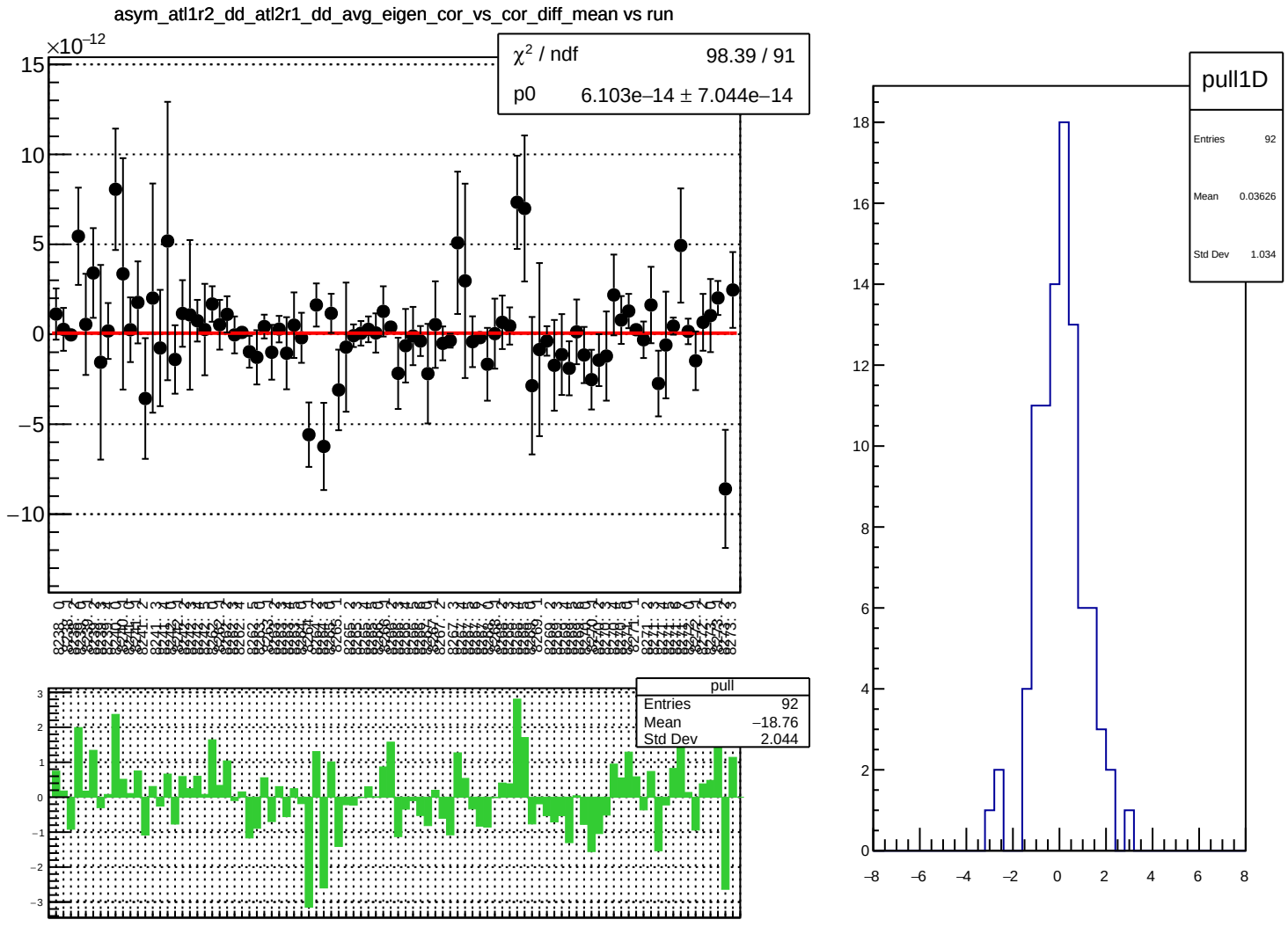

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.529e+05 / 91
p0 0.001911 ± 1.545e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

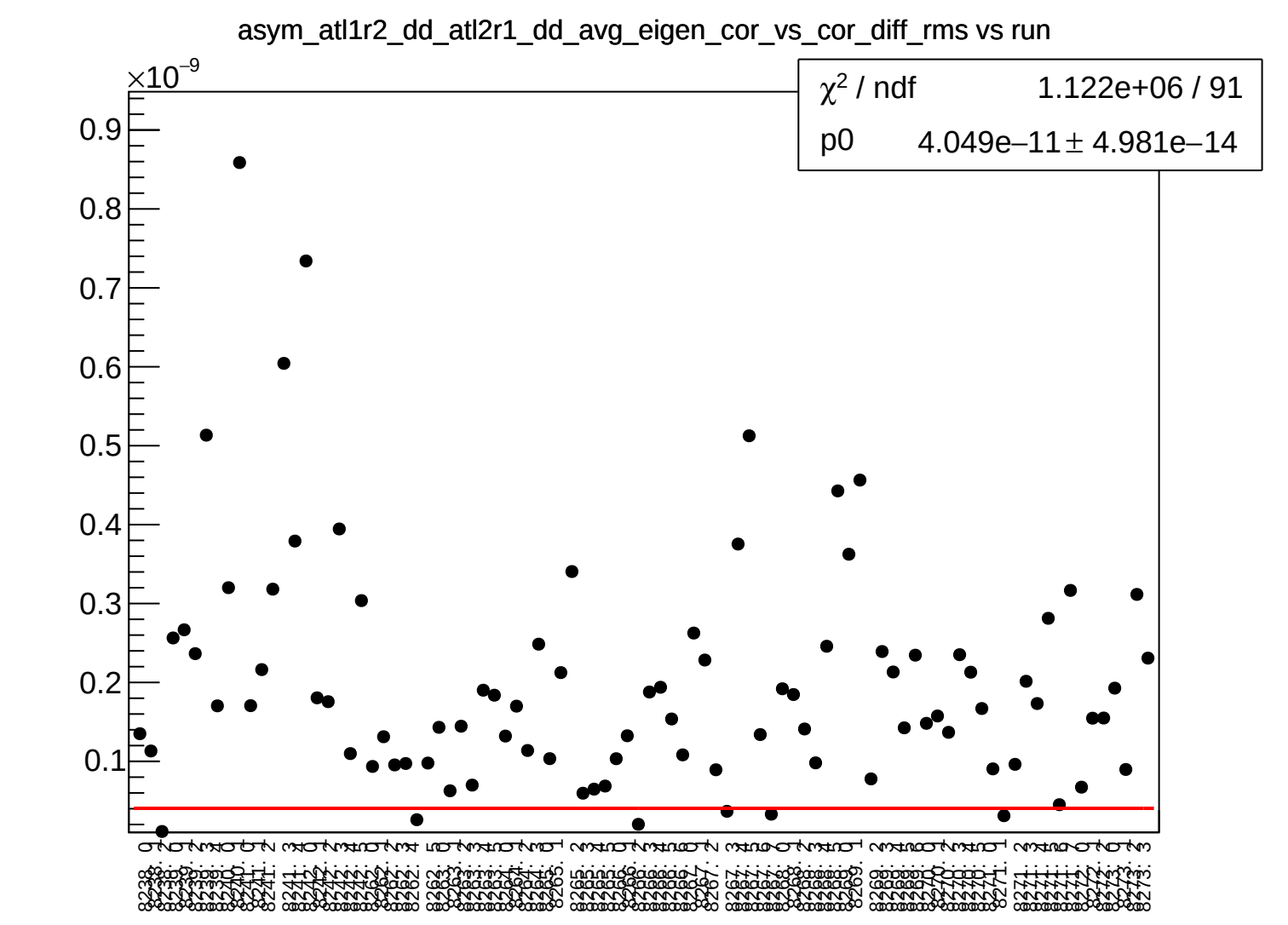

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.42 / 91
p0 0.01836 ± 0.04967
pull
Entries 92
Mean 69.01
Std Dev 20.84
pull1D
Entries 92
Mean −0.08025
Std Dev 1.026

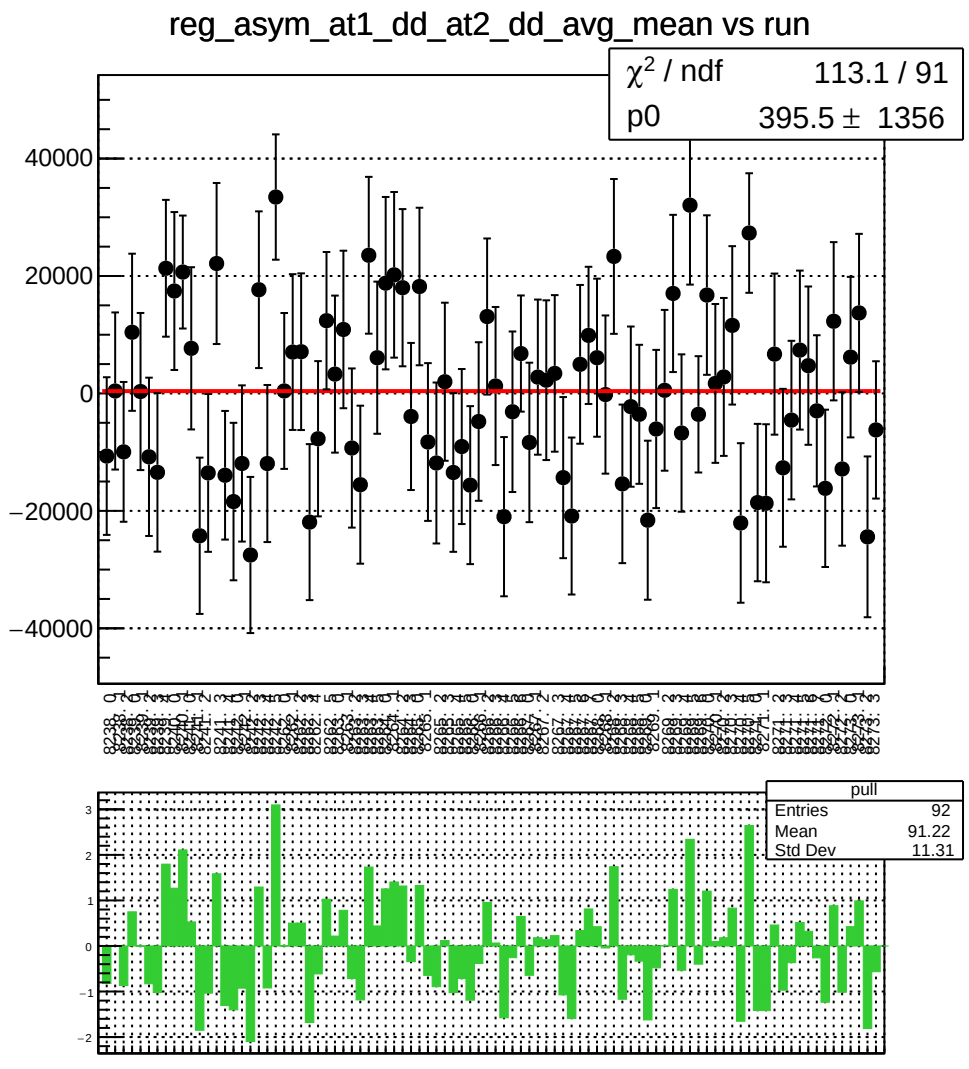

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.492e+05 / 91
p0 44.89 ± 0.03512
100
90
80
70
60
50
40
30
20

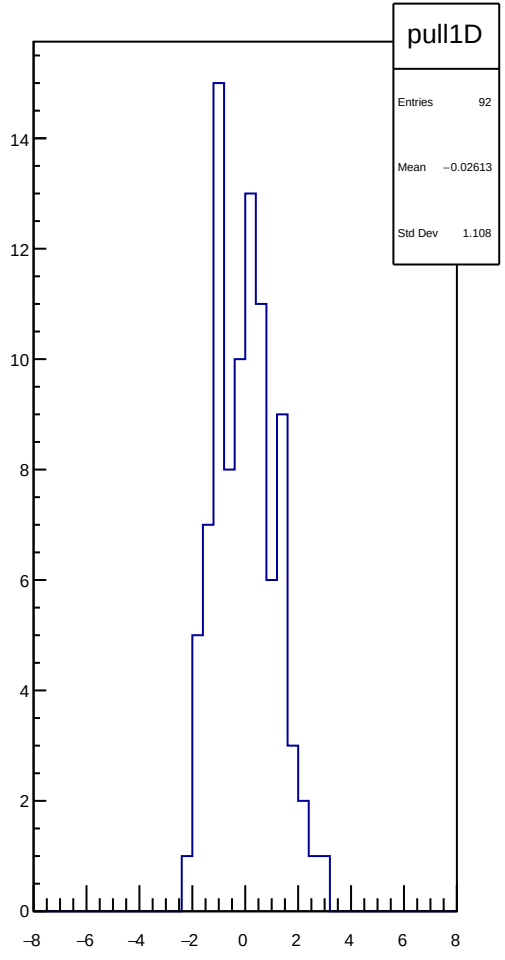

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.42 / 91
p0 0.01836 ± 0.04967
pull
Entries 92
Mean 69.01
Std Dev 20.84
pull1D
Entries 92
Mean −0.08025
Std Dev 1.026

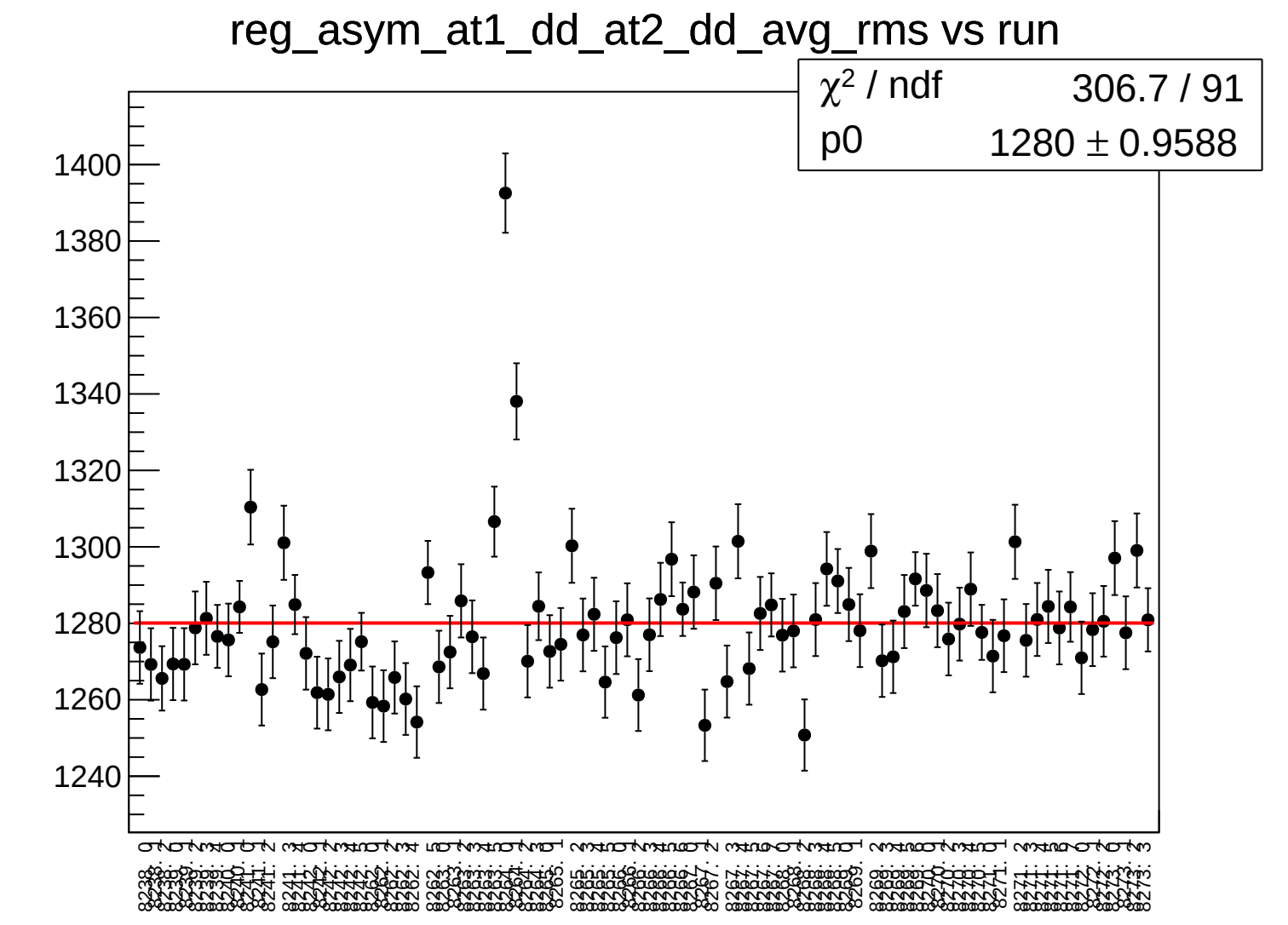

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.492e+05 / 91
p0 44.89 ± 0.03512
100
90
80
70
60
50
40
30
20

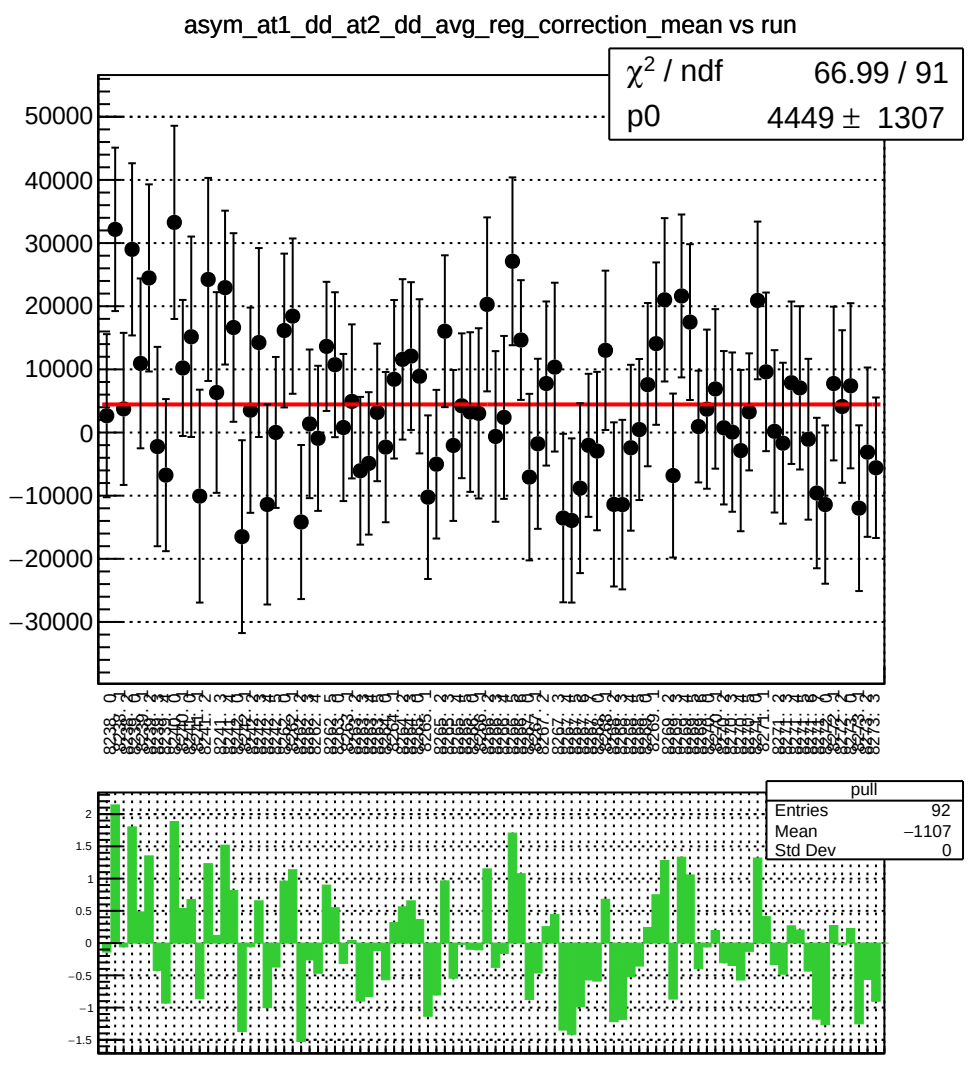

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.39 / 91
p0 6.103e−14 ± 7.044e−14
pull
Entries 92
Mean −18.76
Std Dev 2.044
pull1D
Entries 92
Mean 0.03626
Std Dev 1.034

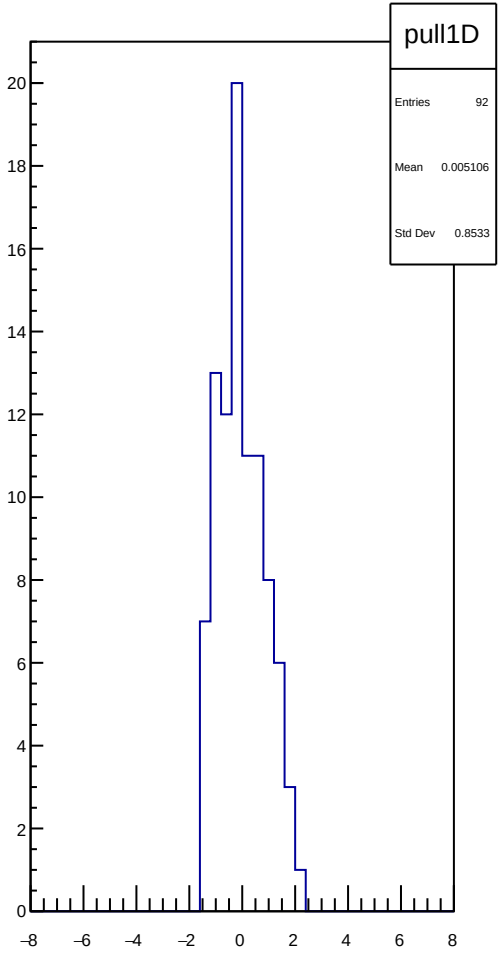

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.122e+06 / 91
p0 4.049e−11 ± 4.981e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

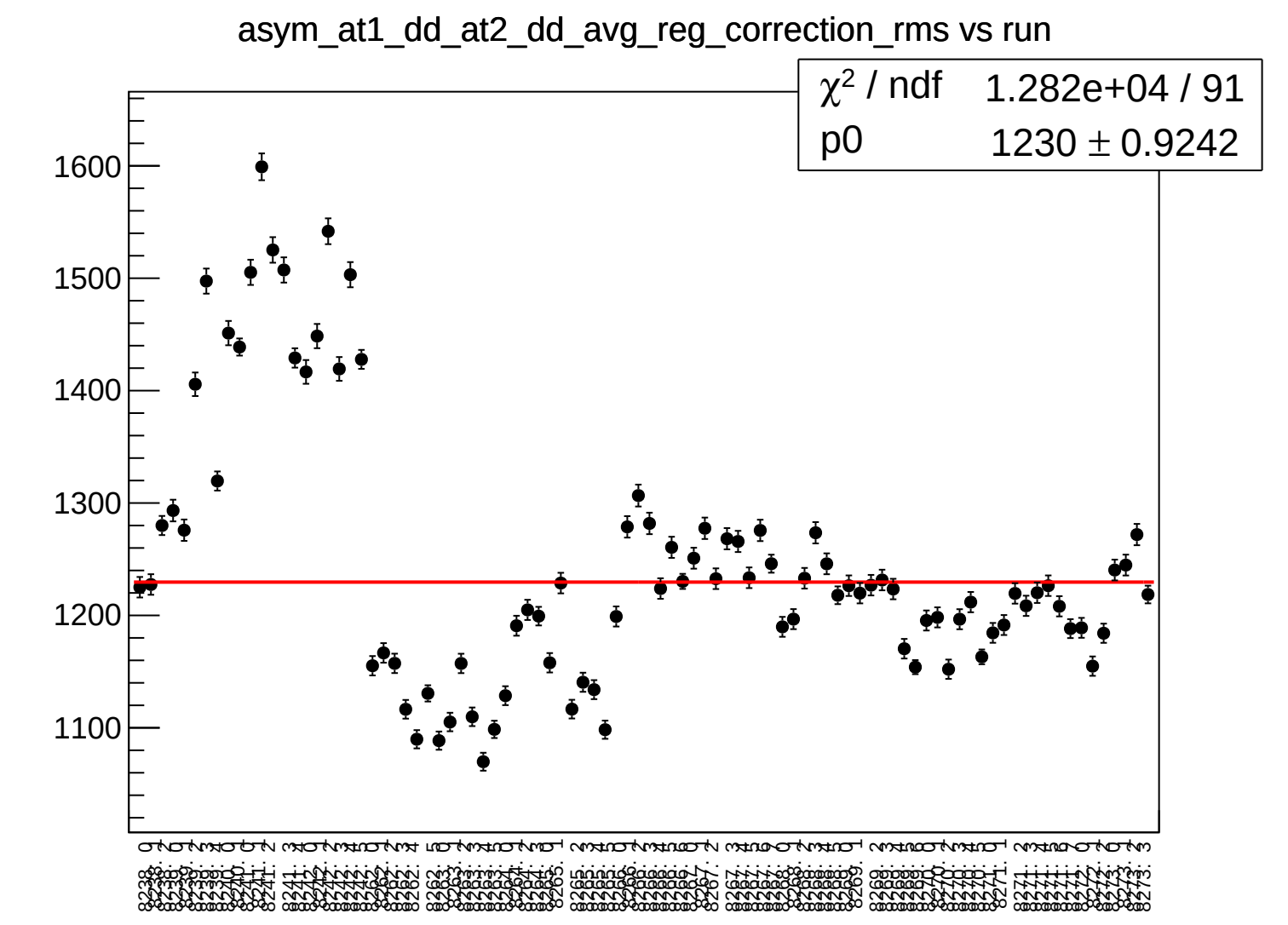

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 113.1 / 91
p0 395.5 ± 1356
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 91.22
Std Dev 11.31
3
2
1
0
−1
−2

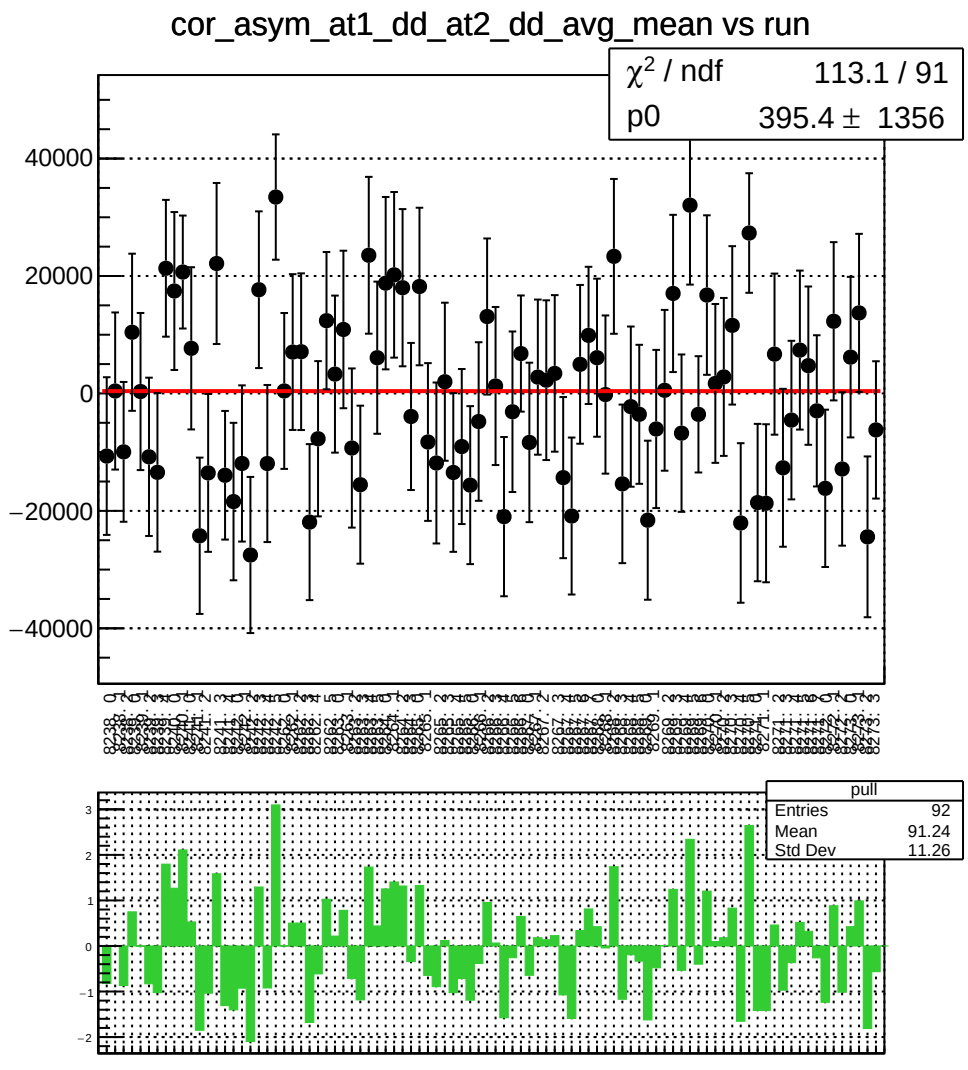

pull1D
Entries 92
Mean −0.02613
Std Dev 1.108
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

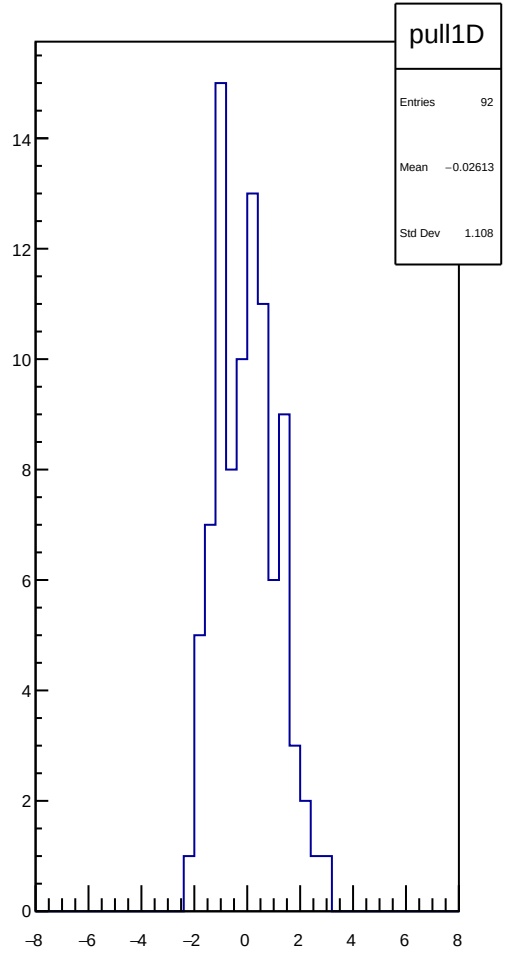

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 306.7 / 91
p0 1280 ± 0.9588
1400
1380
1360
1340
1320
1300
1280
1260
1240

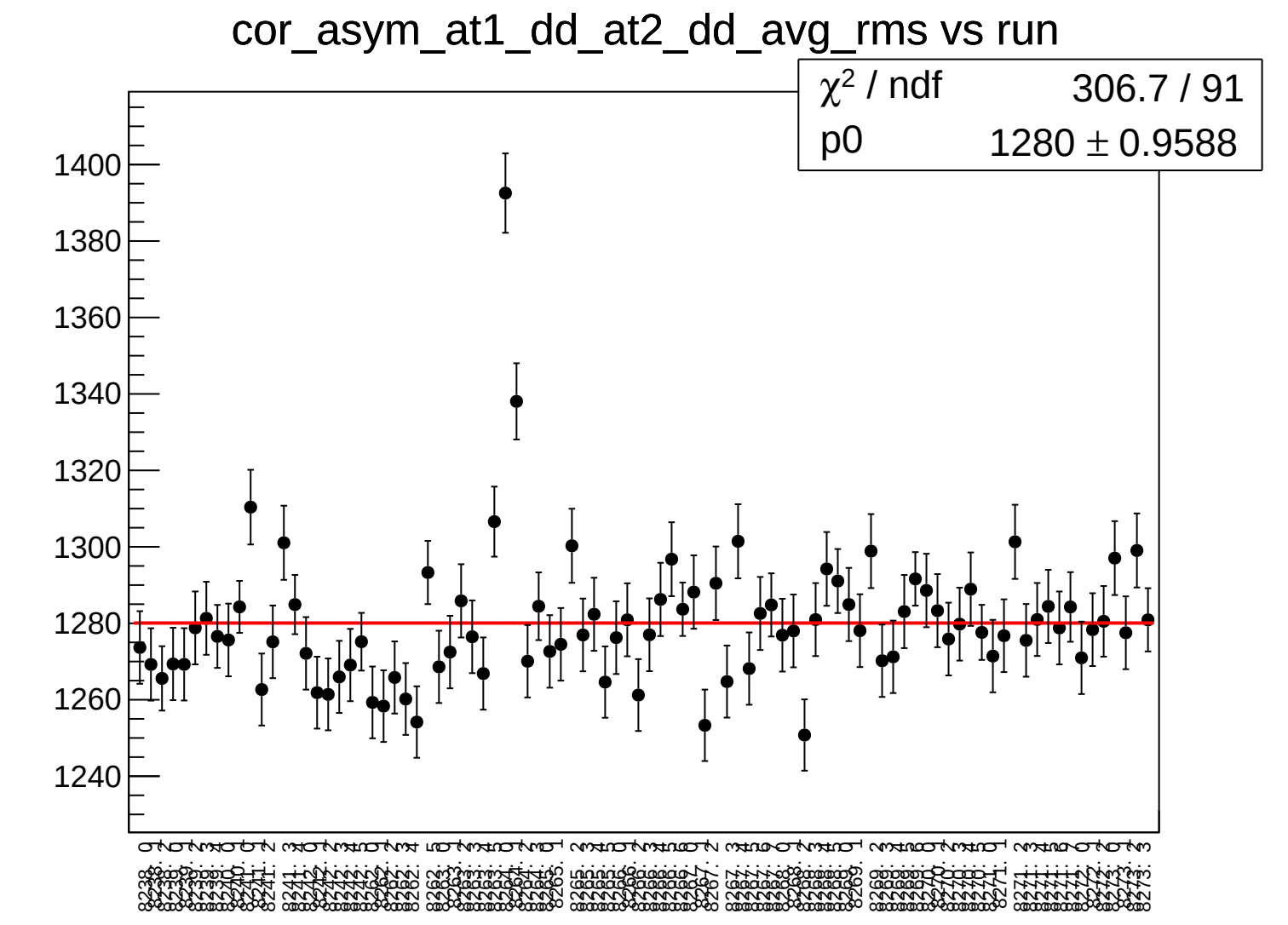

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 66.99 / 91
p0 4449 ± 1307
pull
Entries 92
Mean −1107
Std Dev 0

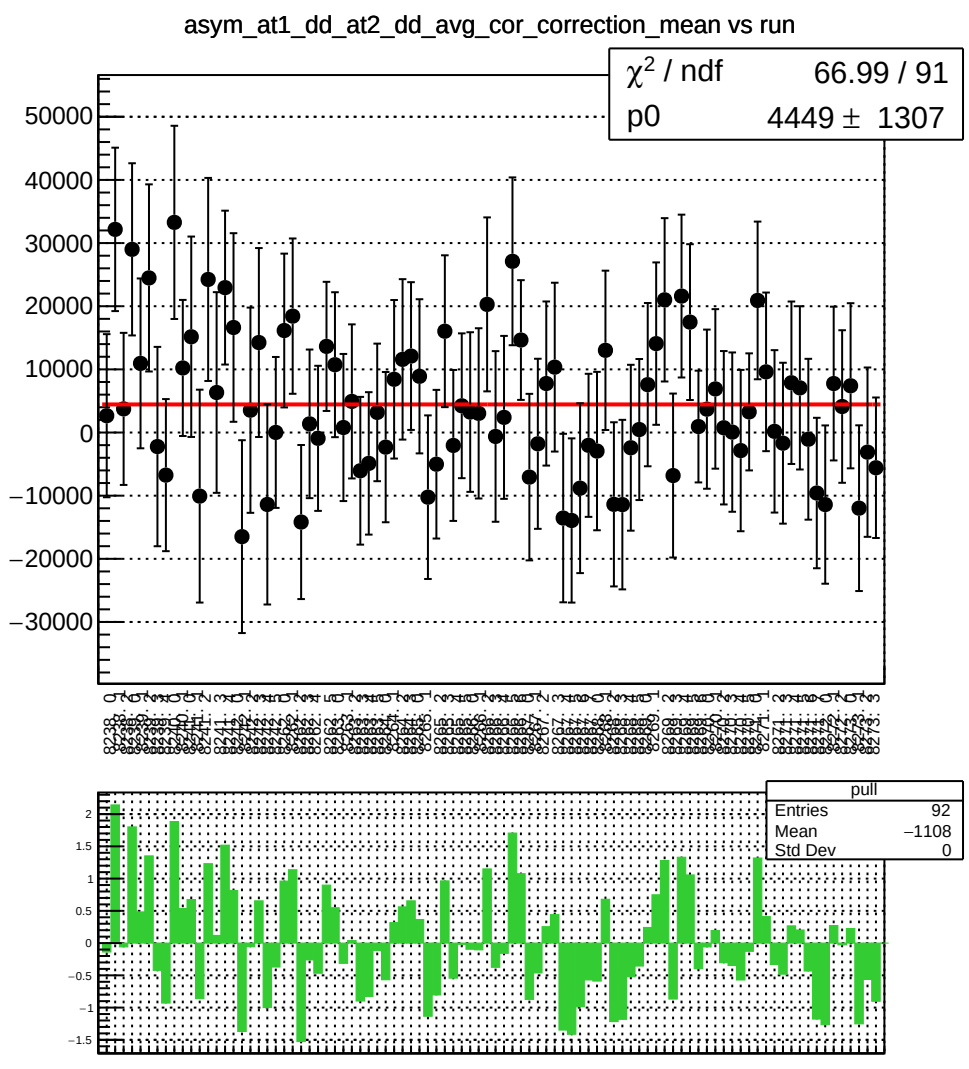

pull1D
Entries 92
Mean 0.005106
Std Dev 0.8533

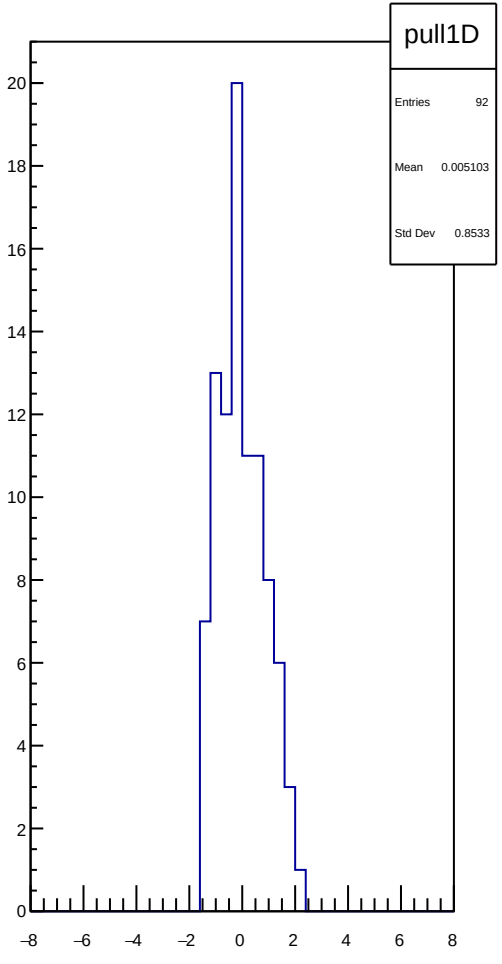

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 1.282e+04 / 91
p0 1230 ± 0.9242
1600
1500
1400
1300
1200
1100

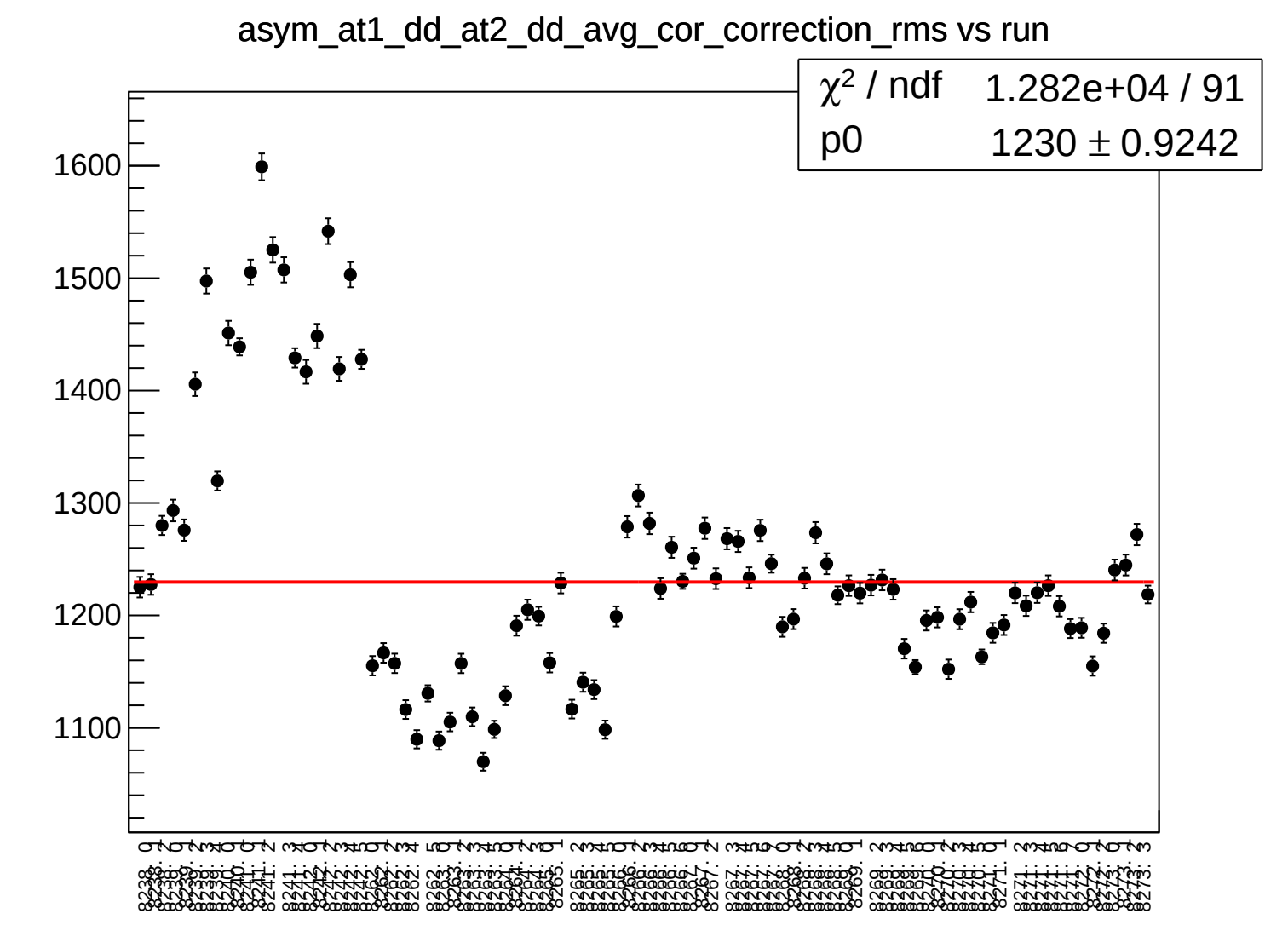

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 113.1 / 91
p0 395.4 ± 1356
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 91.24
Std Dev 11.26
3
2
1
0
−1
−2

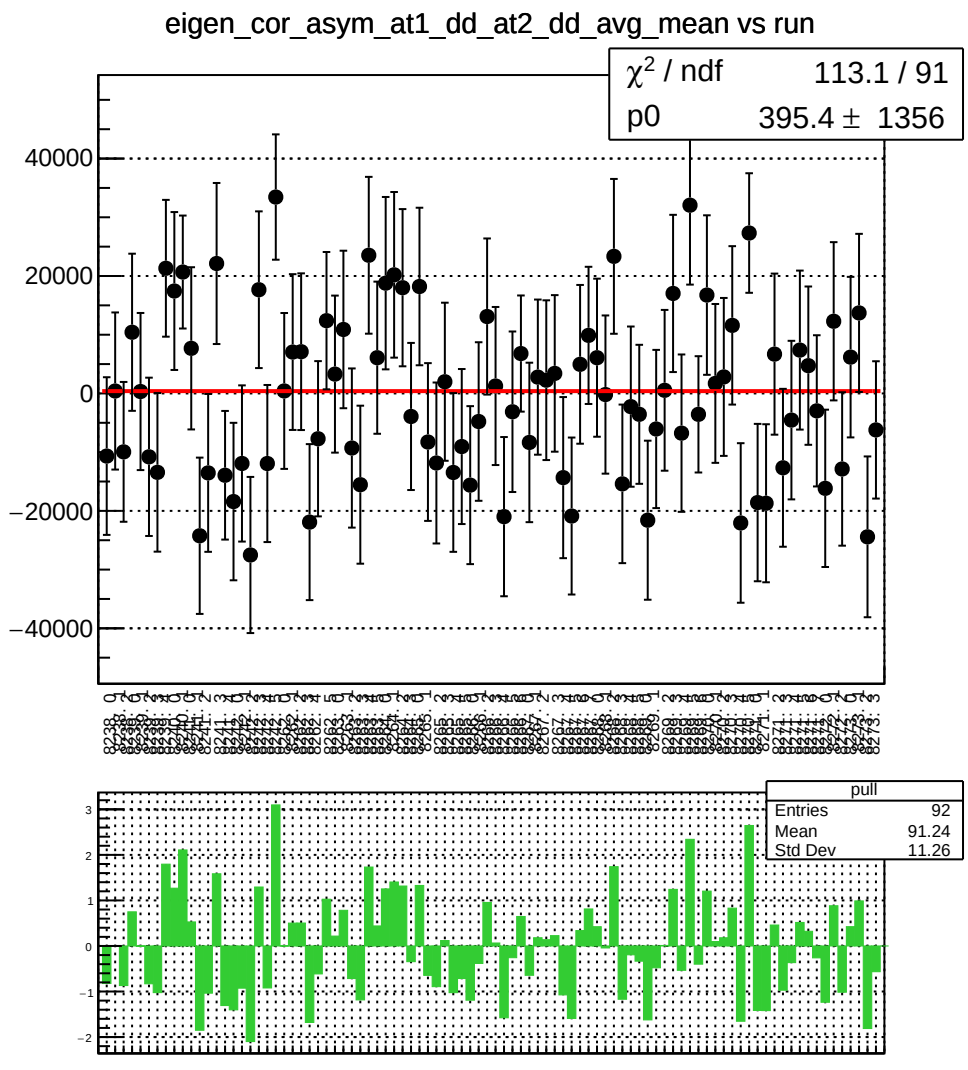

pull1D
Entries 92
Mean −0.02613
Std Dev 1.108
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

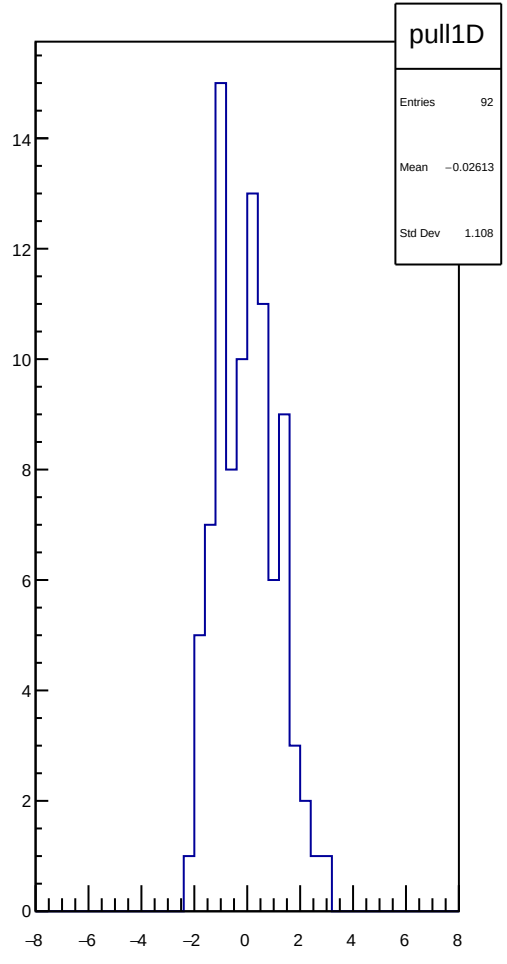

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 306.7 / 91
p0 1280 ± 0.9588
1400
1380
1360
1340
1320
1300
1280
1260
1240

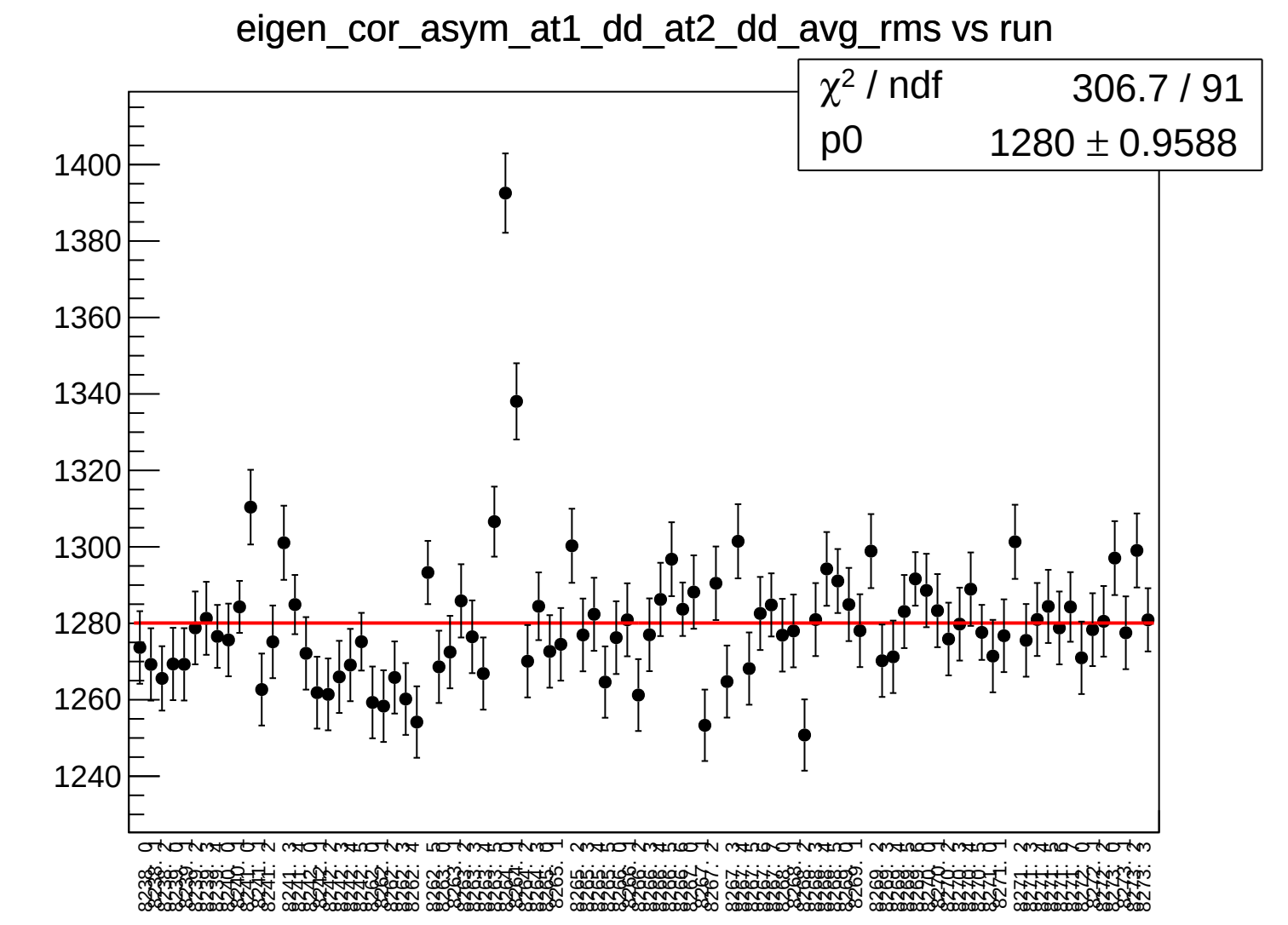

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 66.99 / 91
p0 4449 ± 1307
pull
Entries 92
Mean −1108
Std Dev 0

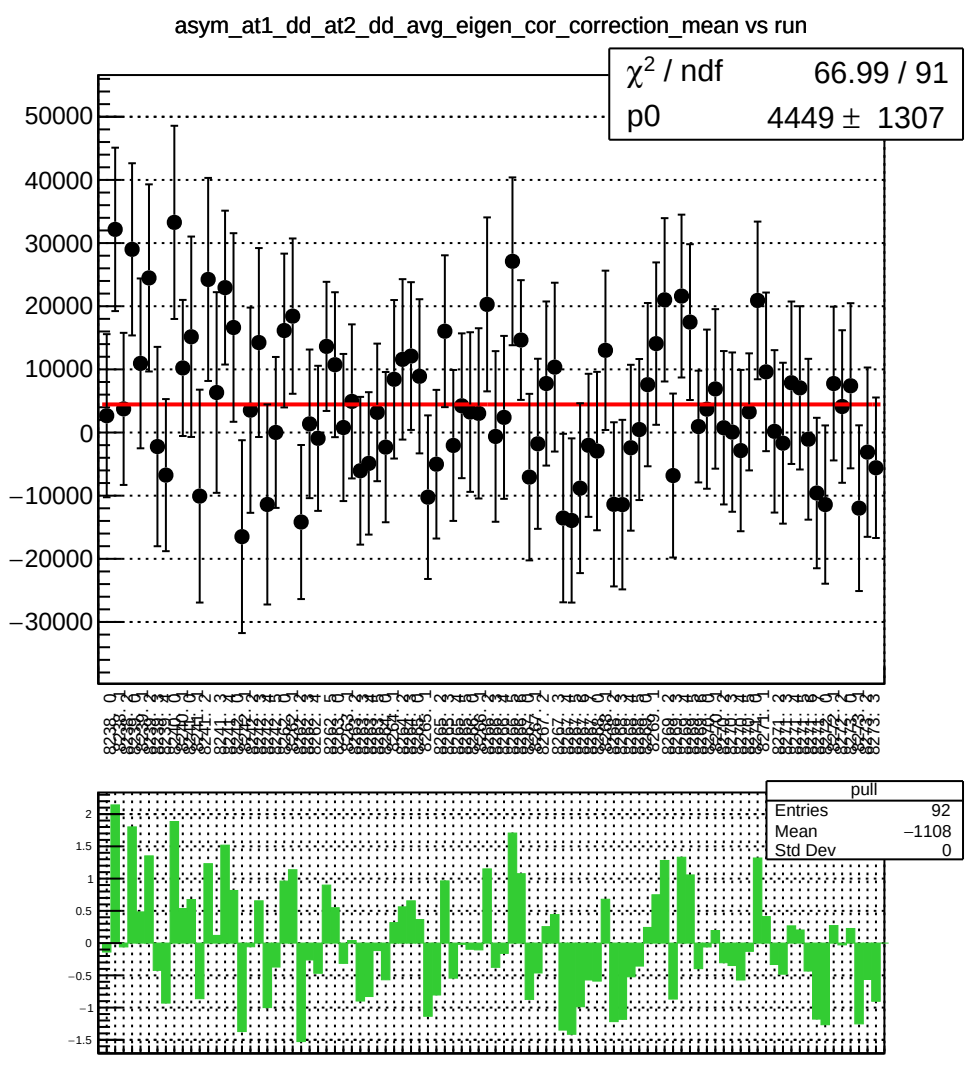

pull1D
Entries 92
Mean 0.005103
Std Dev 0.8533

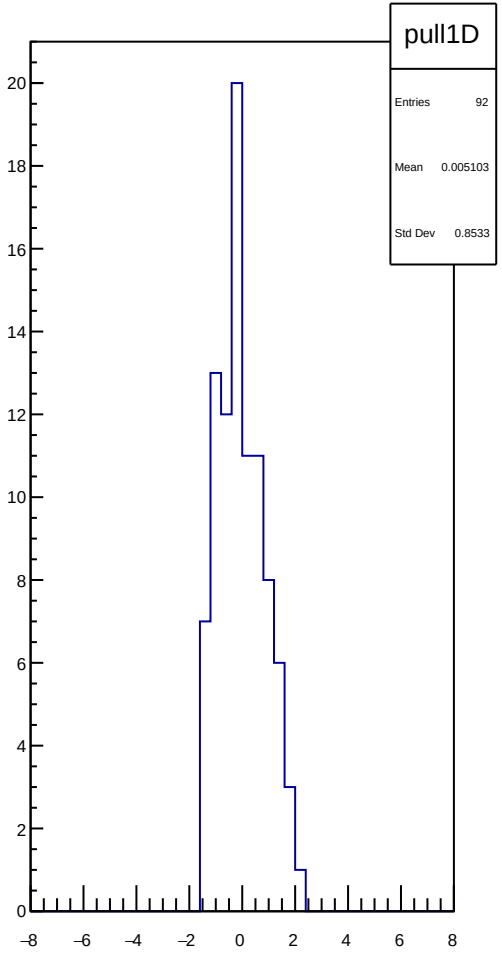

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 1.282e+04 / 91
p0 1230 ± 0.9242
1600
1500
1400
1300
1200
1100

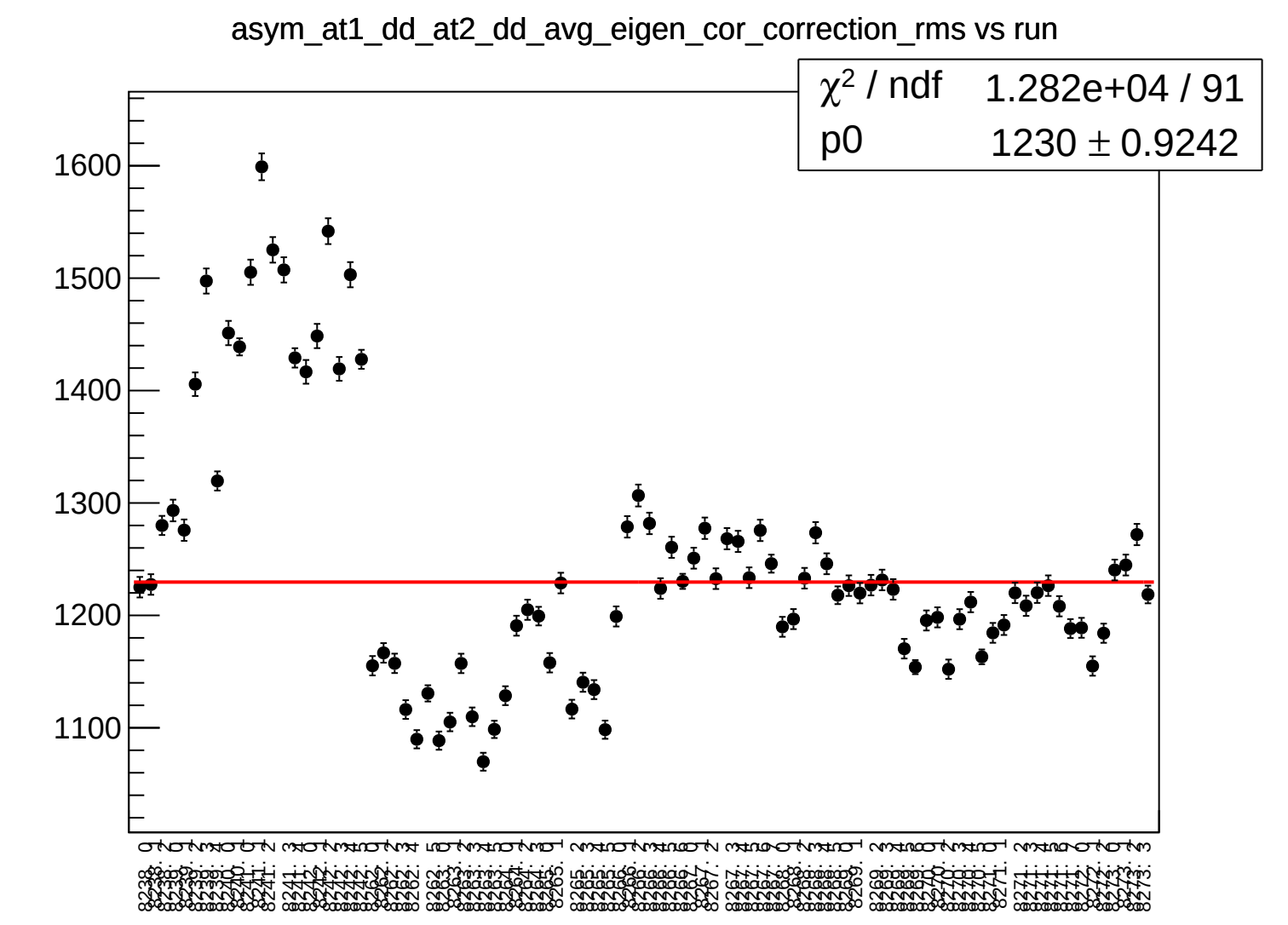

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 113.1 / 91
p0 395.4 ± 1356
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 91.24
Std Dev 11.26
3
2
1
0
−1
−2

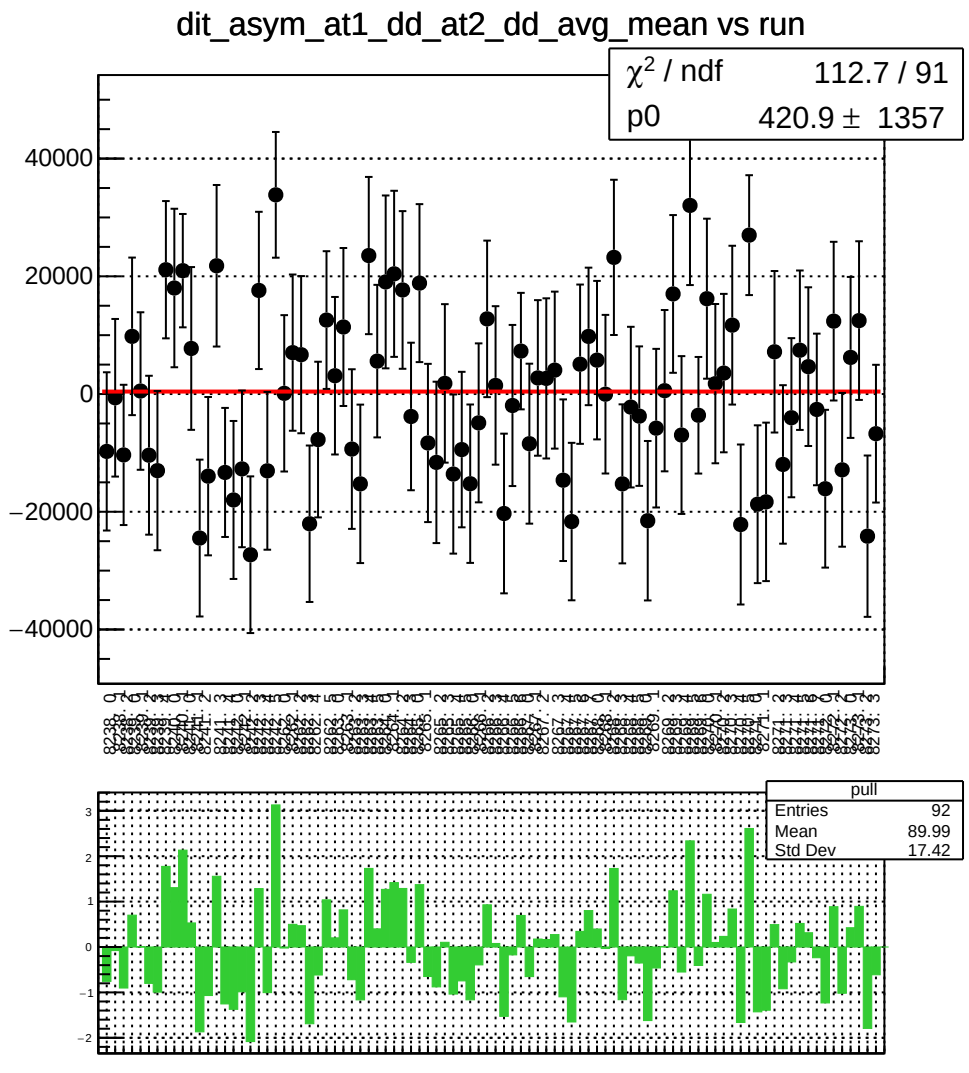

pull1D
Entries 92
Mean −0.02613
Std Dev 1.108
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

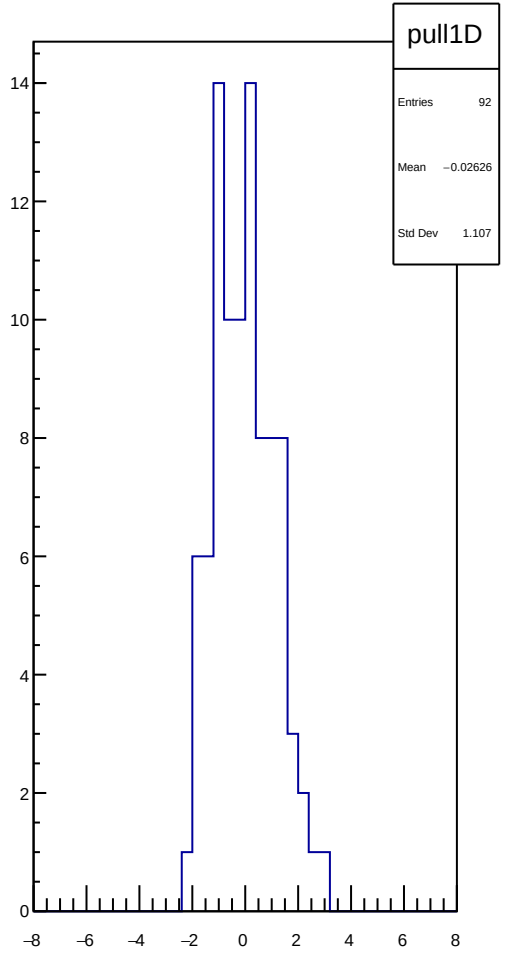

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 306.7 / 91
p0 1280 ± 0.9588
1400
1380
1360
1340
1320
1300
1280
1260
1240

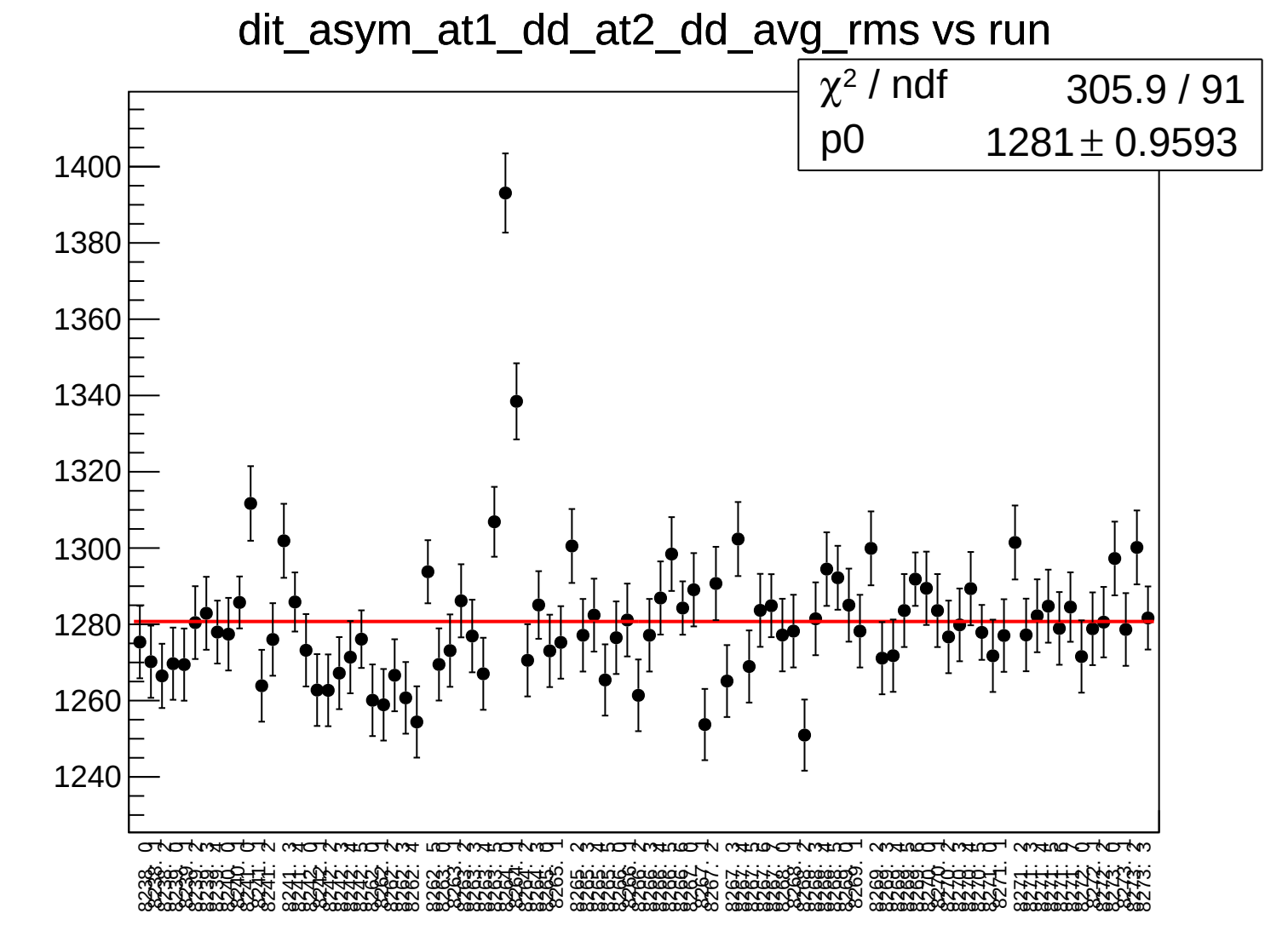

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 66.99 / 91
p0 4449 ± 1307
pull
Entries 92
Mean −1108
Std Dev 0

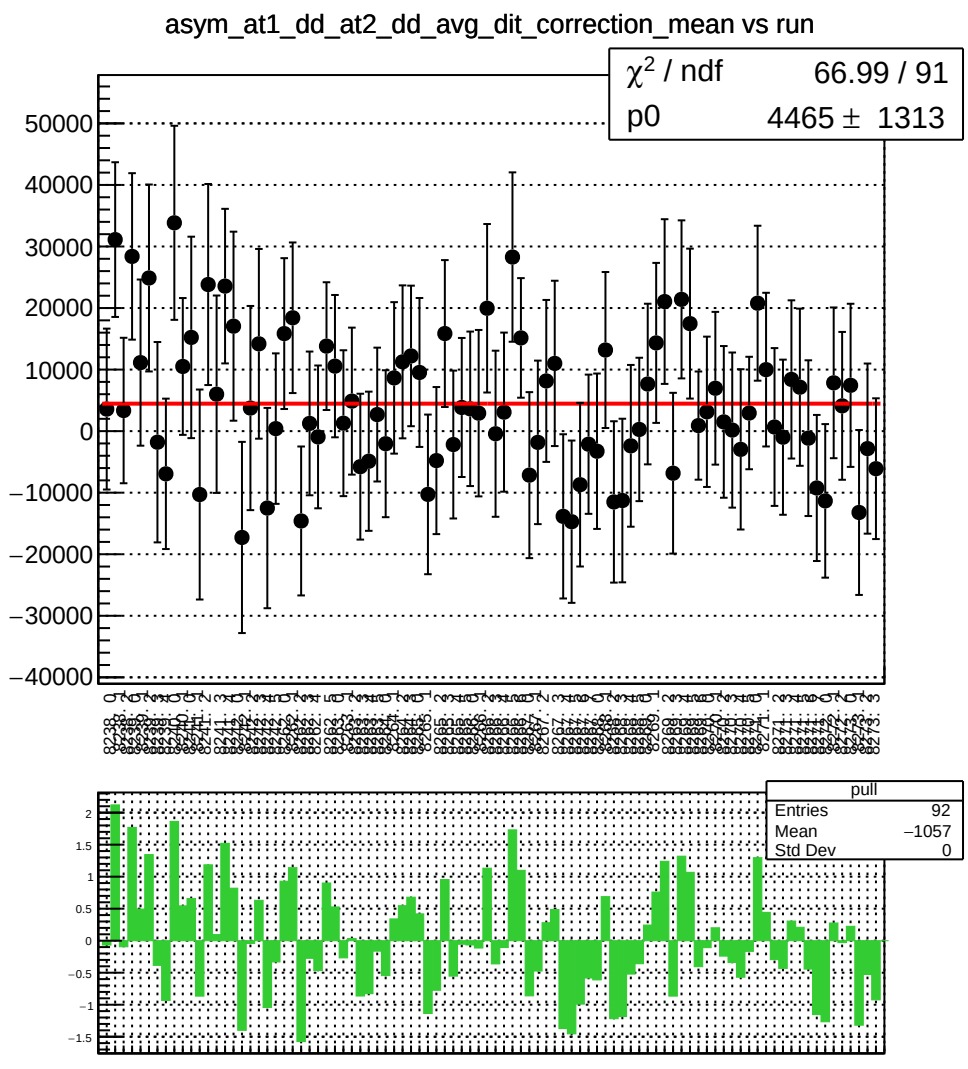

pull1D
Entries 92
Mean 0.005103
Std Dev 0.8533

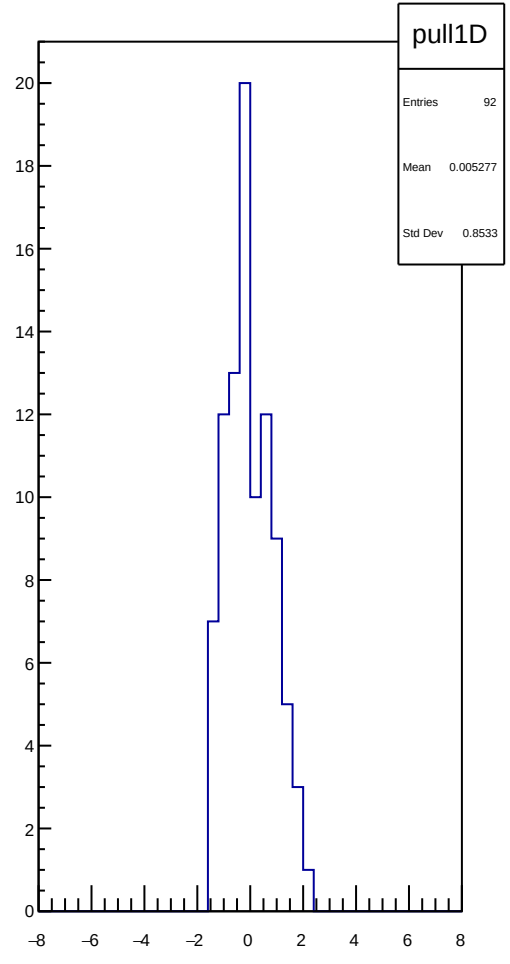

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.282e+04 / 91
p0 1230 ± 0.9242
1600
1500
1400
1300
1200
1100

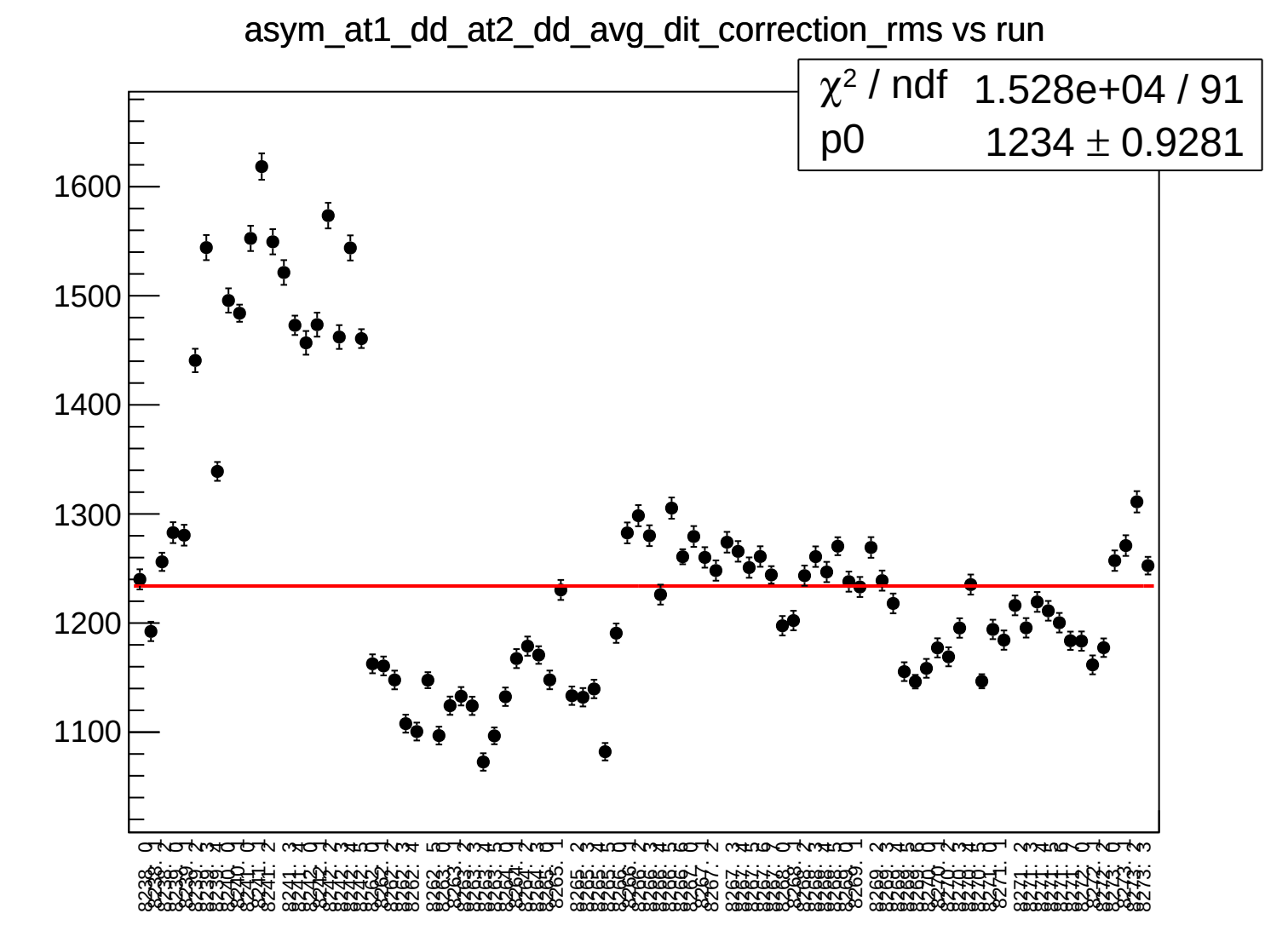

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 112.7 / 91
p0 420.9 ± 1357
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 89.99
Std Dev 17.42
3
2
1
0
−1
−2

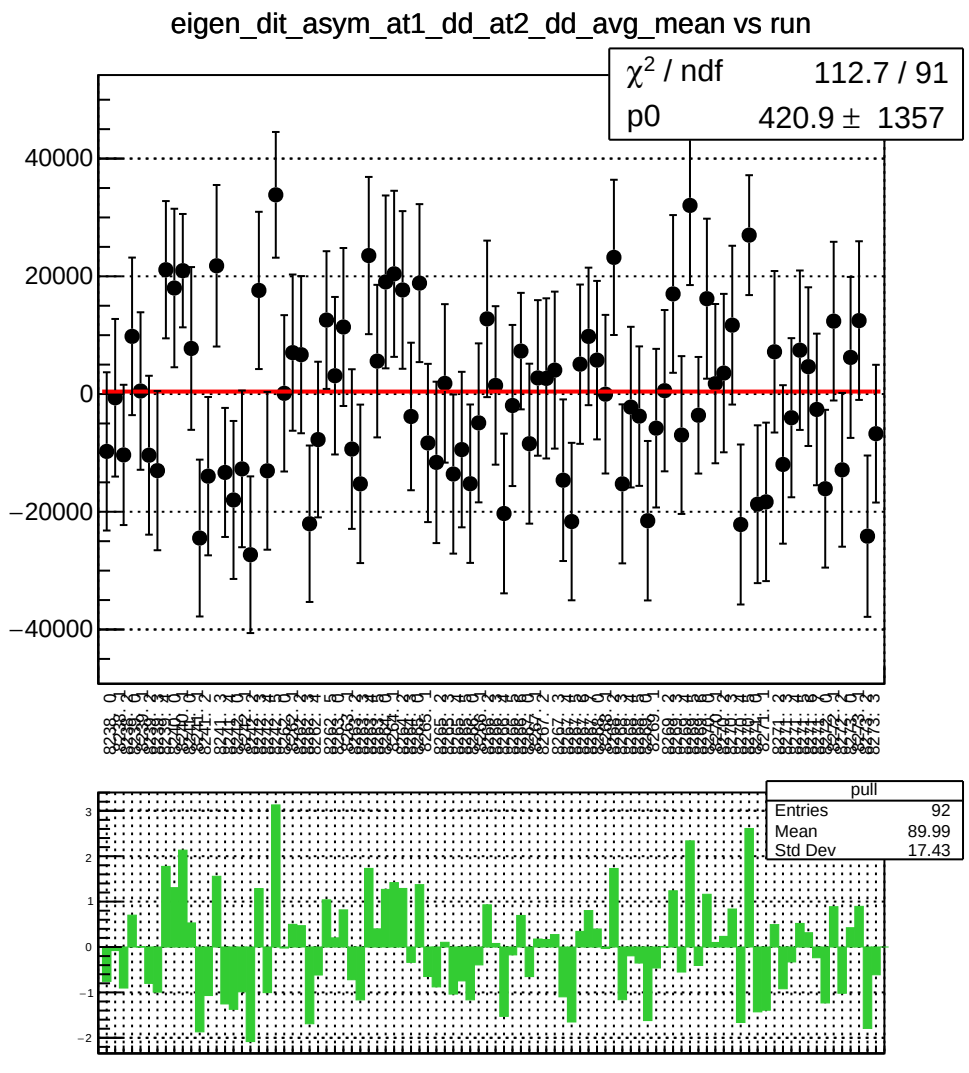

pull1D
Entries 92
Mean −0.02626
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

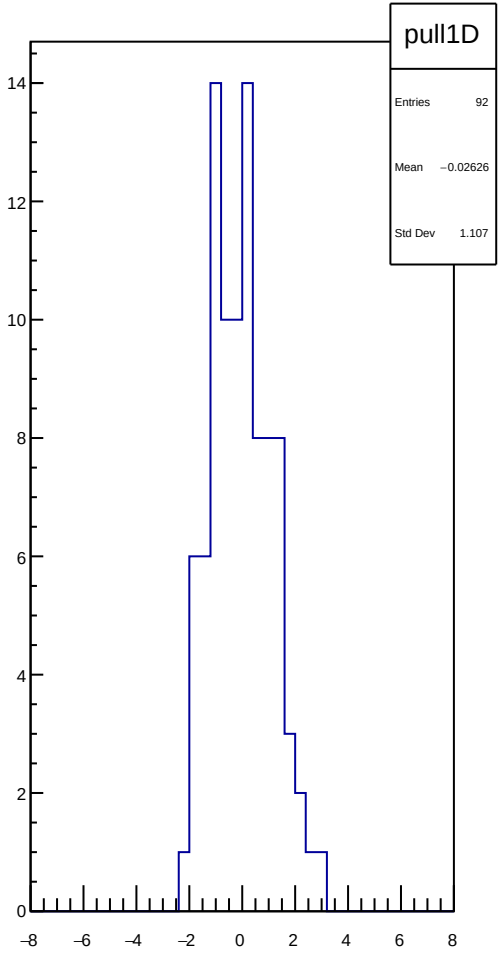

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 305.9 / 91
p0 1281 ± 0.9593
1400
1380
1360
1340
1320
1300
1280
1260
1240

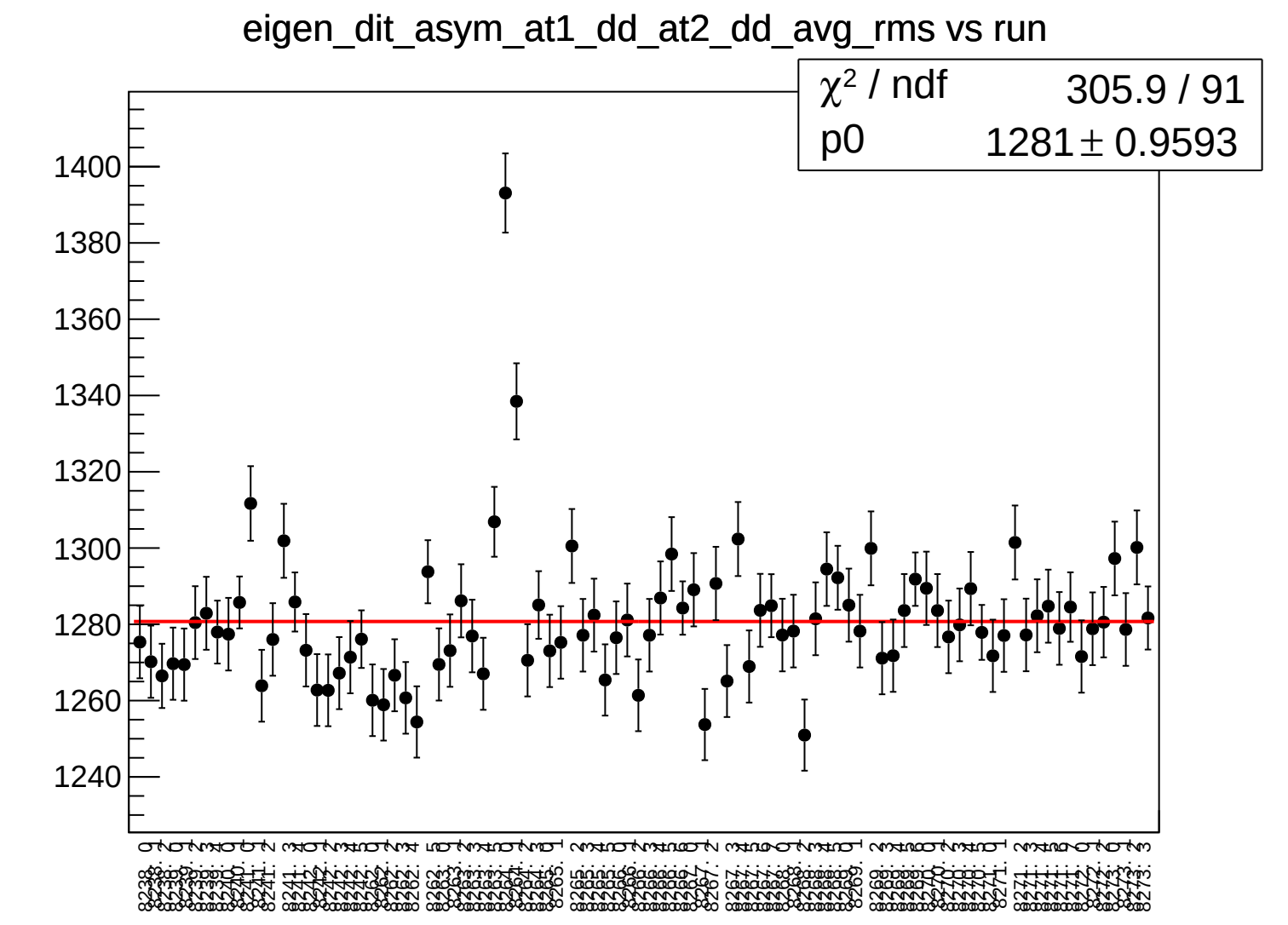

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 66.99 / 91
p0 4465 ± 1313
pull
Entries 92
Mean −1057
Std Dev 0

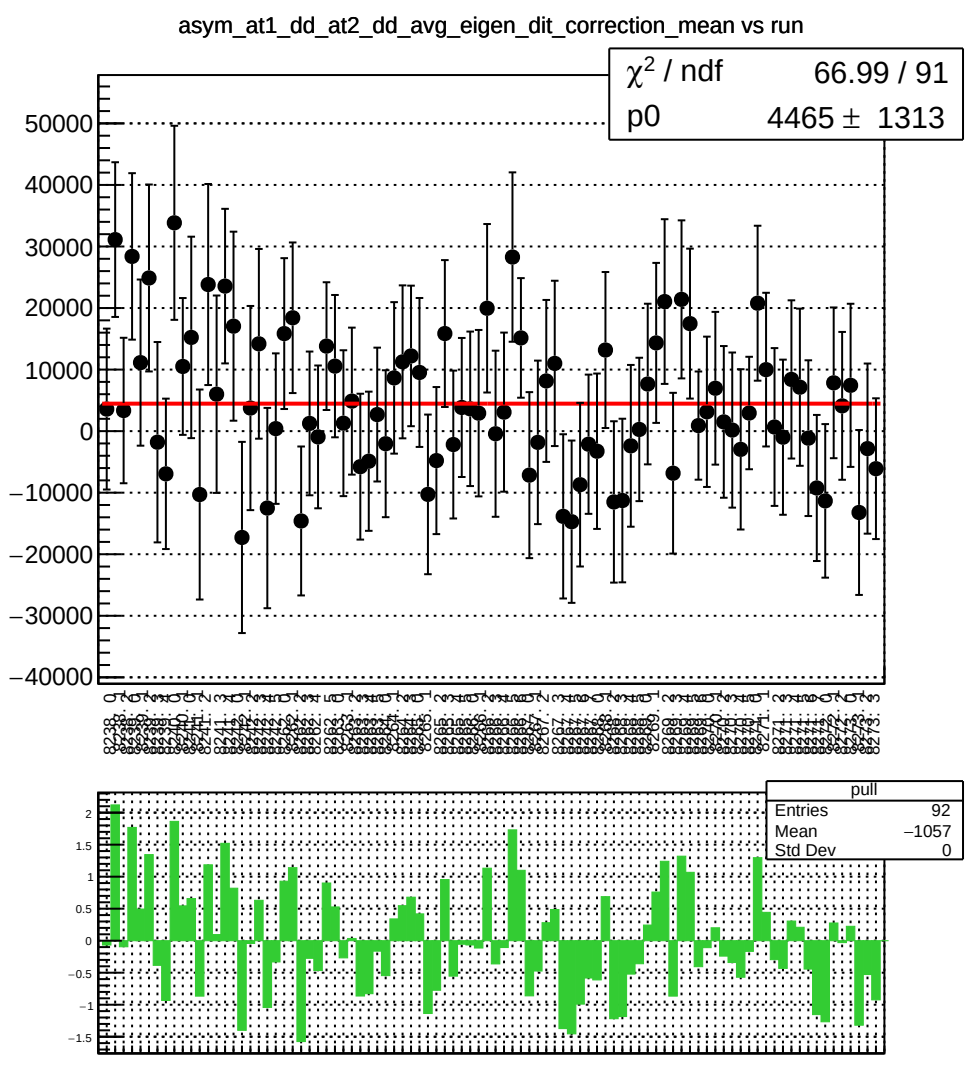

pull1D
Entries 92
Mean 0.005277
Std Dev 0.8533

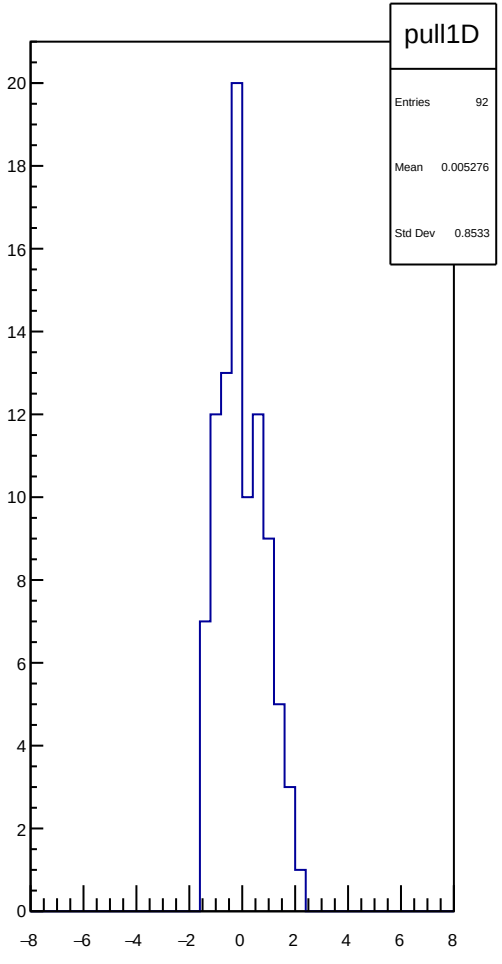

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 1.528e+04 / 91
p0 1234 ± 0.9281
1600
1500
1400
1300
1200
1100

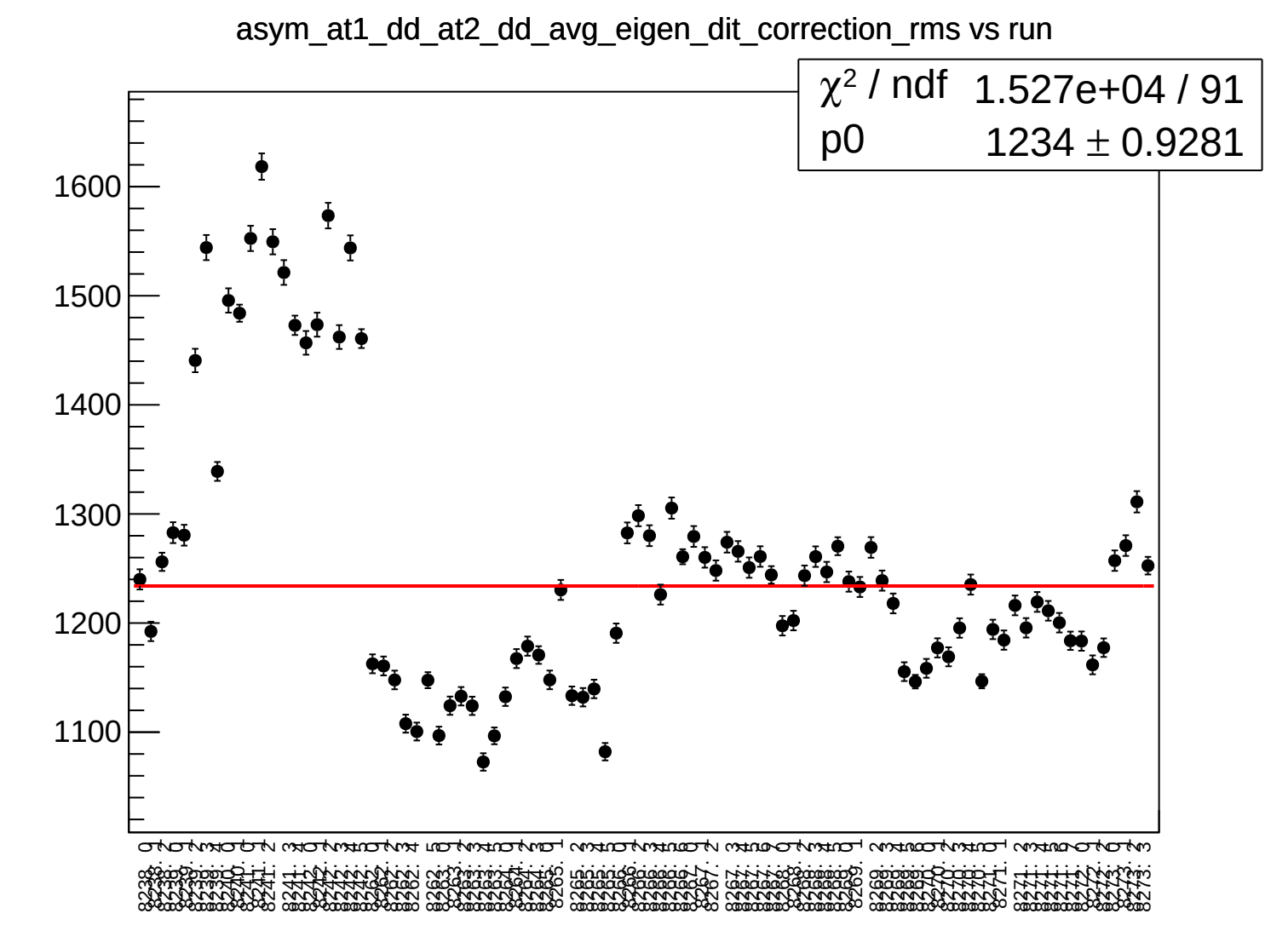

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 112.7 / 91
p0 420.9 ± 1357
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 89.99
Std Dev 17.43
3
2
1
0
−1
−2

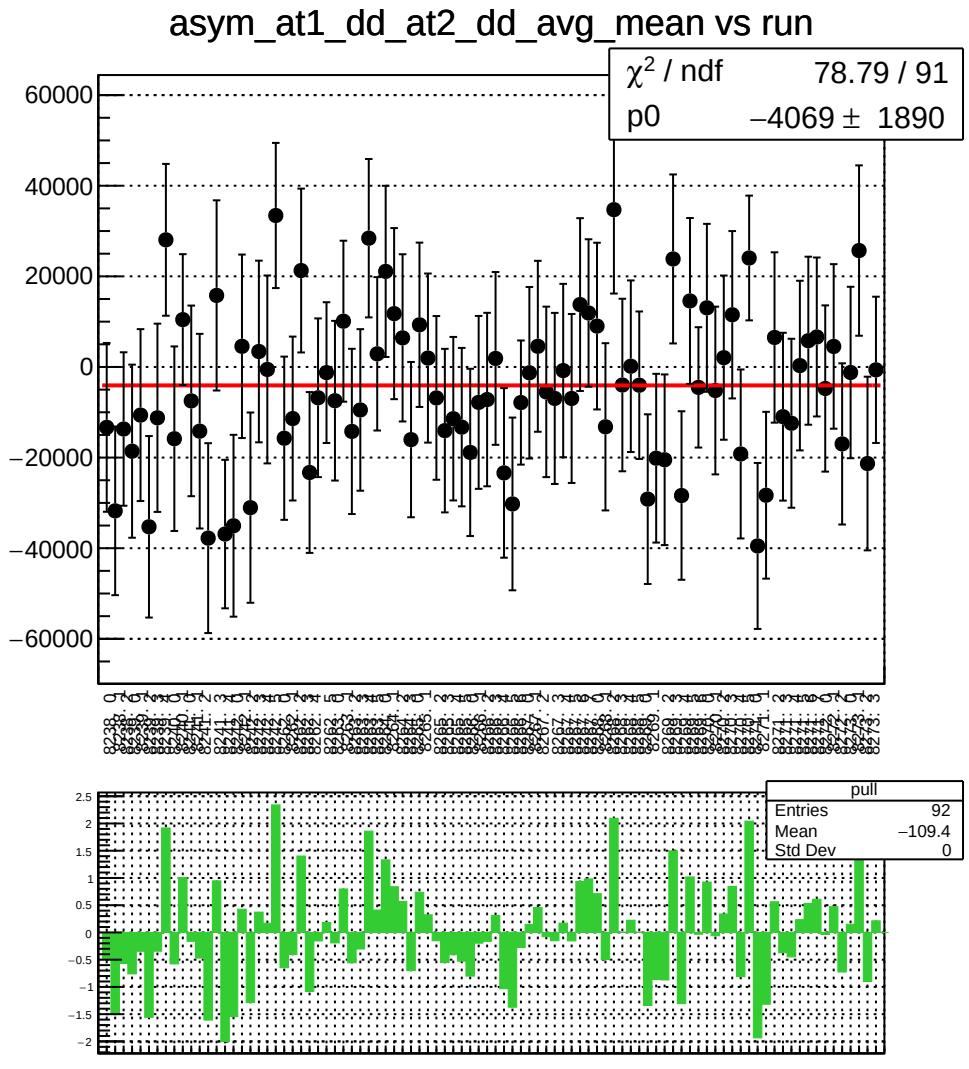

pull1D
Entries 92
Mean −0.02626
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

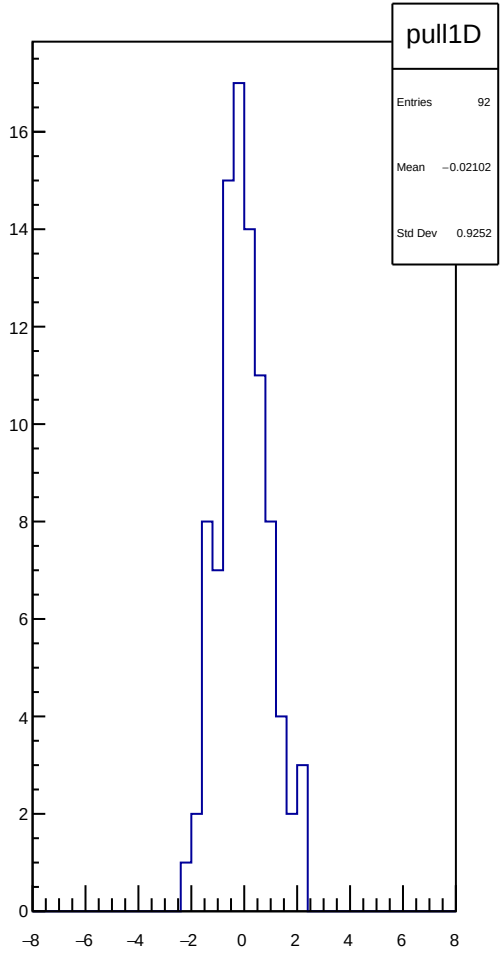

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 305.9 / 91
p0 1281 ± 0.9593
1400
1380
1360
1340
1320
1300
1280
1260
1240

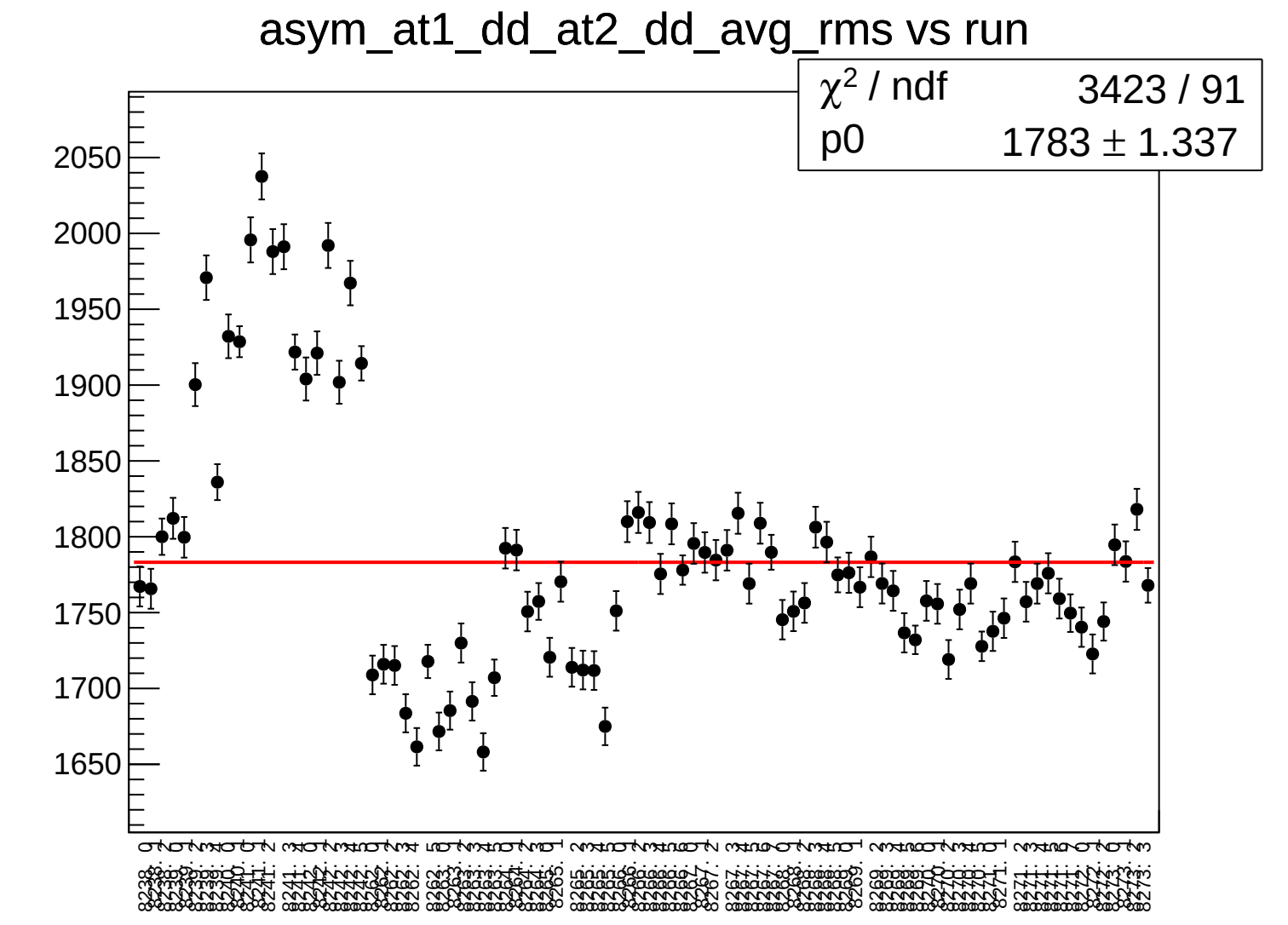

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 66.99 / 91
p0 4465 ± 1313
pull
Entries 92
Mean −1057
Std Dev 0

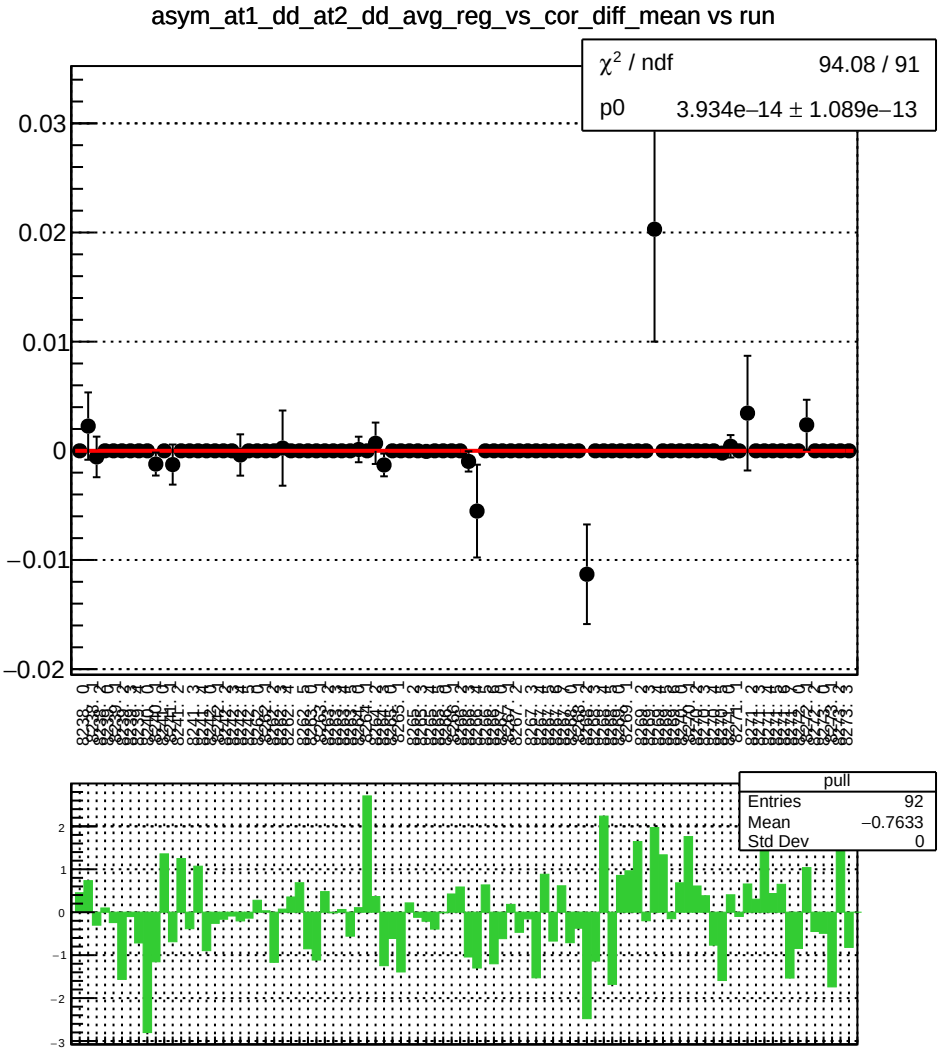

pull1D
Entries 92
Mean 0.005276
Std Dev 0.8533

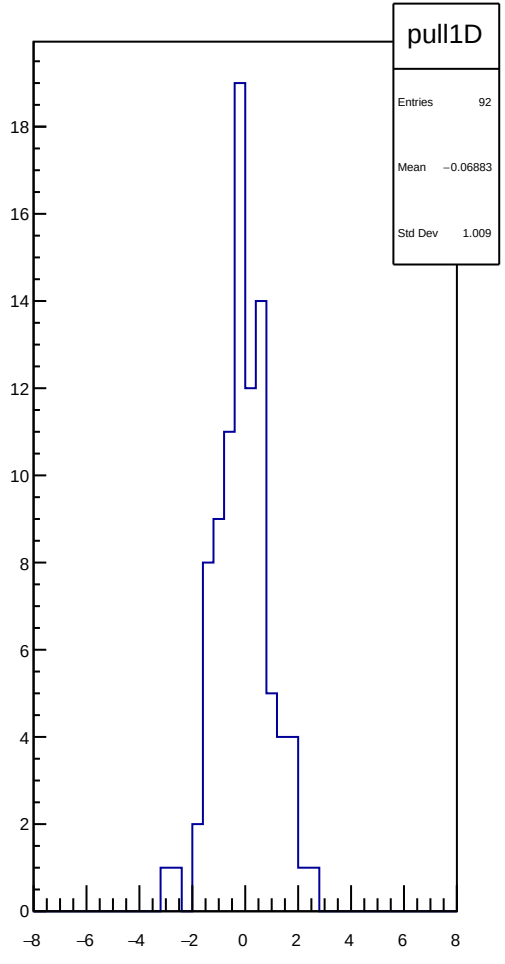

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.527e+04 / 91
p0 1234 ± 0.9281
1600
1500
1400
1300
1200
1100

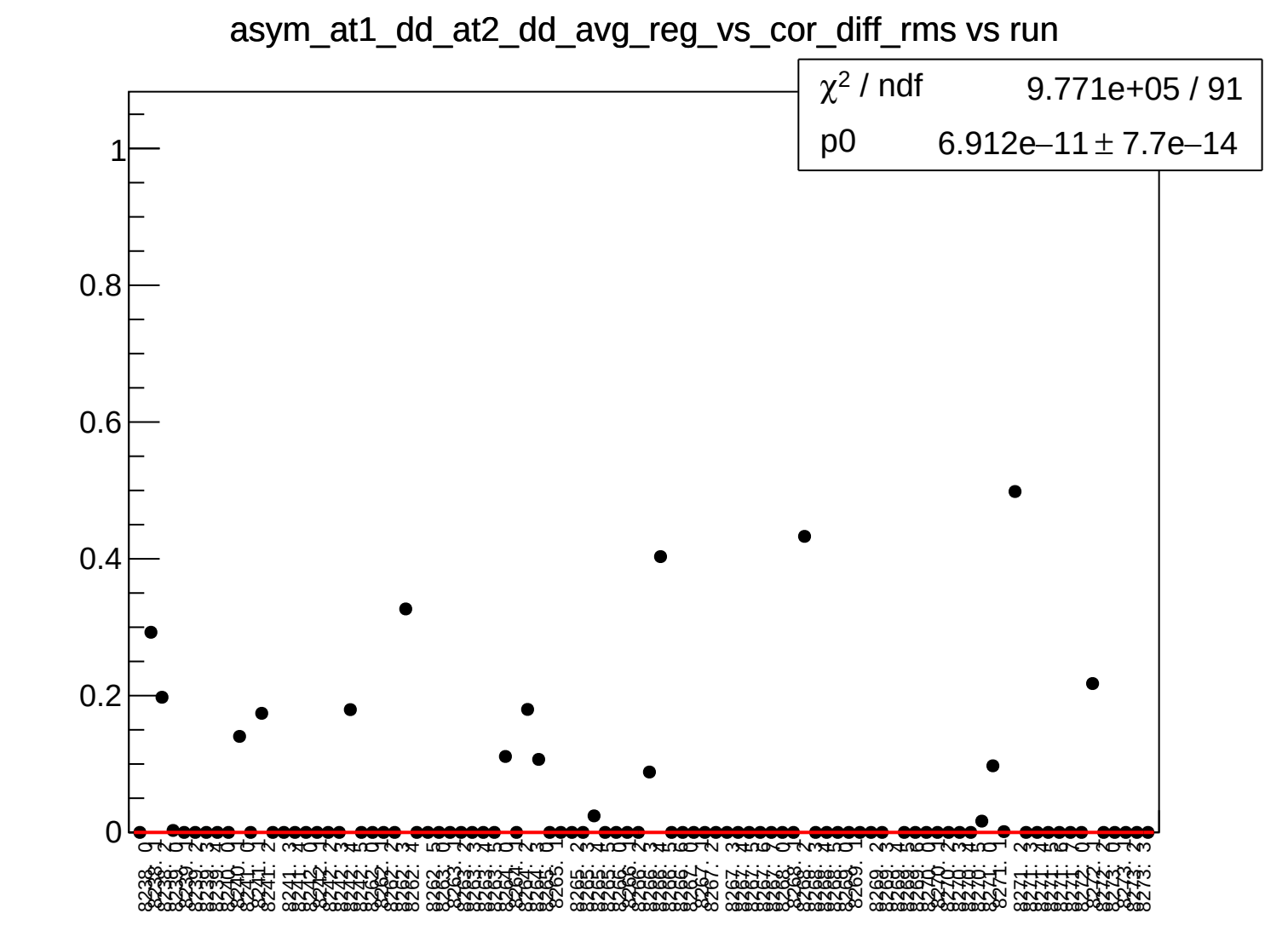

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 78.79 / 91
p0 −4069 ± 1890
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −109.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

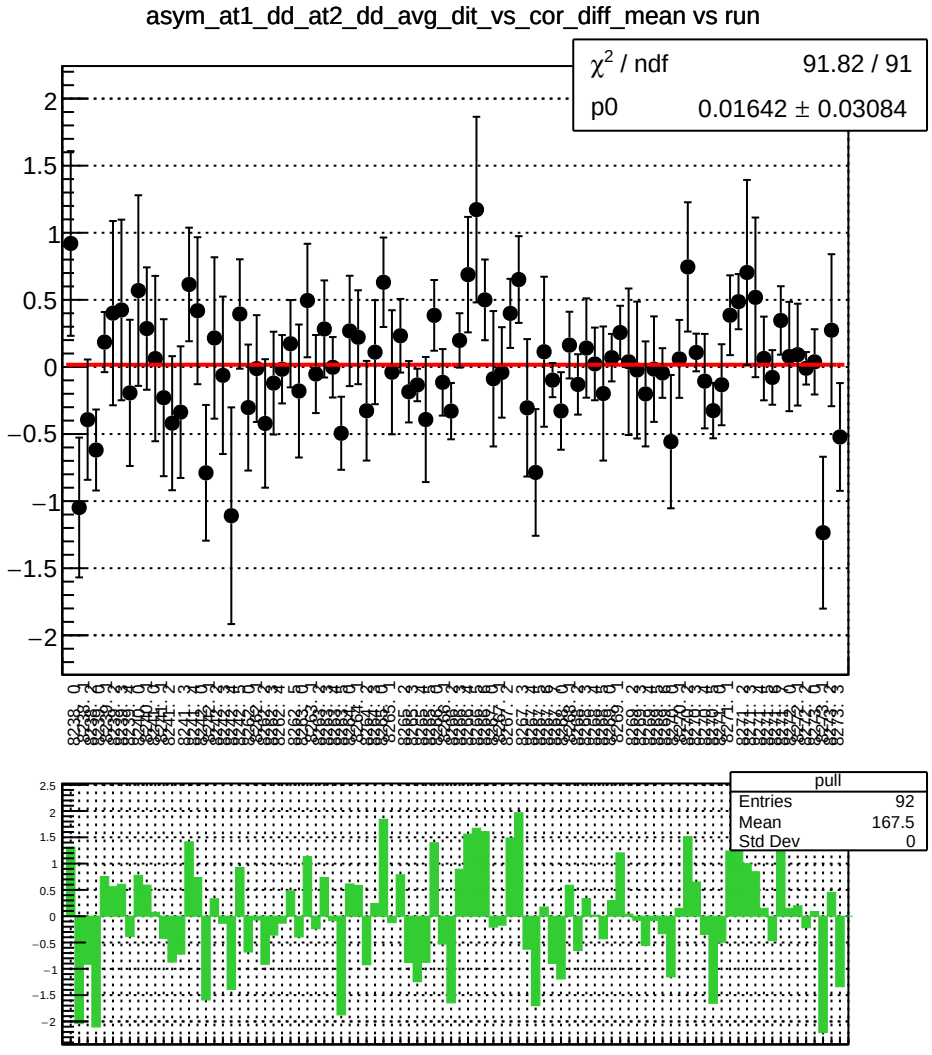

pull1D
Entries 92
Mean −0.02102
Std Dev 0.9252
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

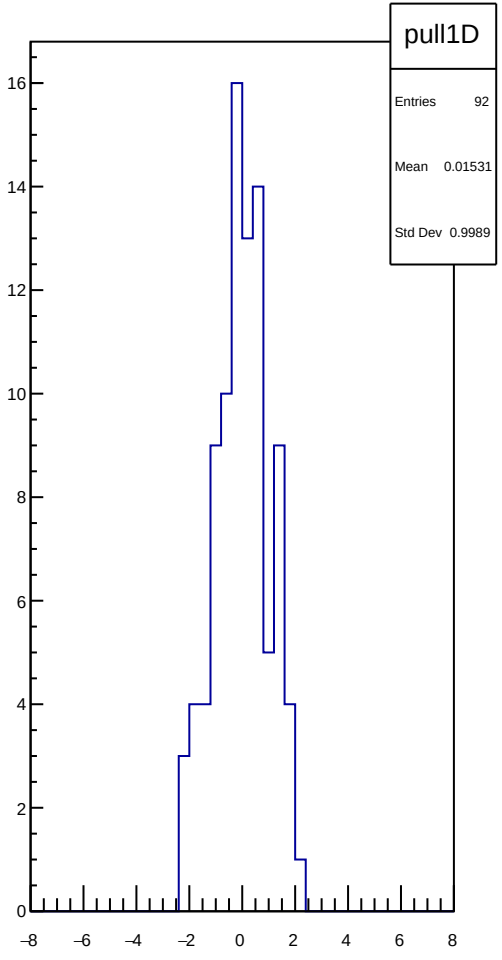

asym_at1_dd_at2_dd_avg_rms vs run
$\chi^2$ / ndf 3423 / 91
p0 1783 ± 1.337
2050
2000
1950
1900
1850
1800
1750
1700
1650

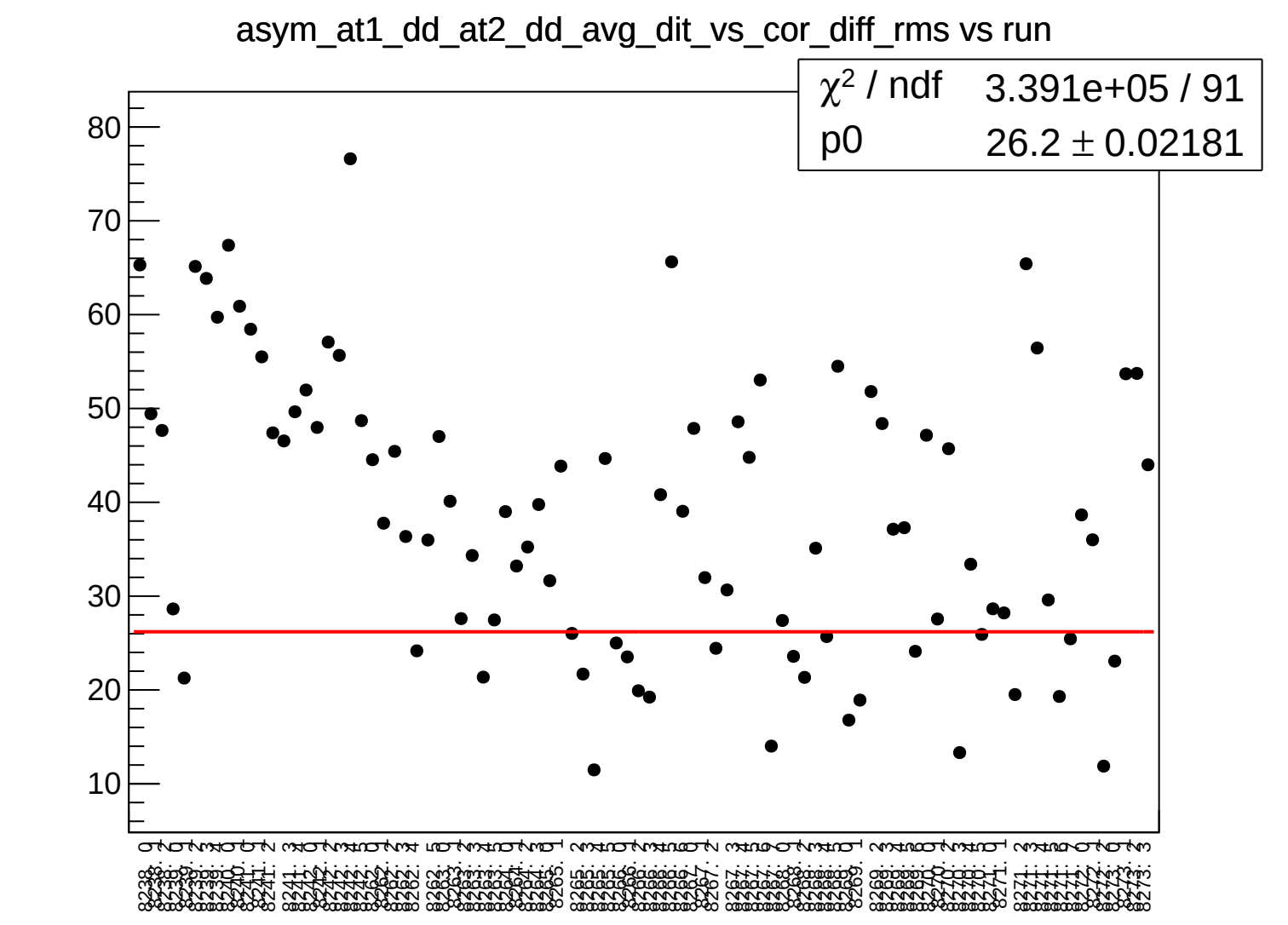

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.08 / 91
p0 3.934e−14 ± 1.089e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean −0.7633
Std Dev 0
2
1
0
−1
−2
−3

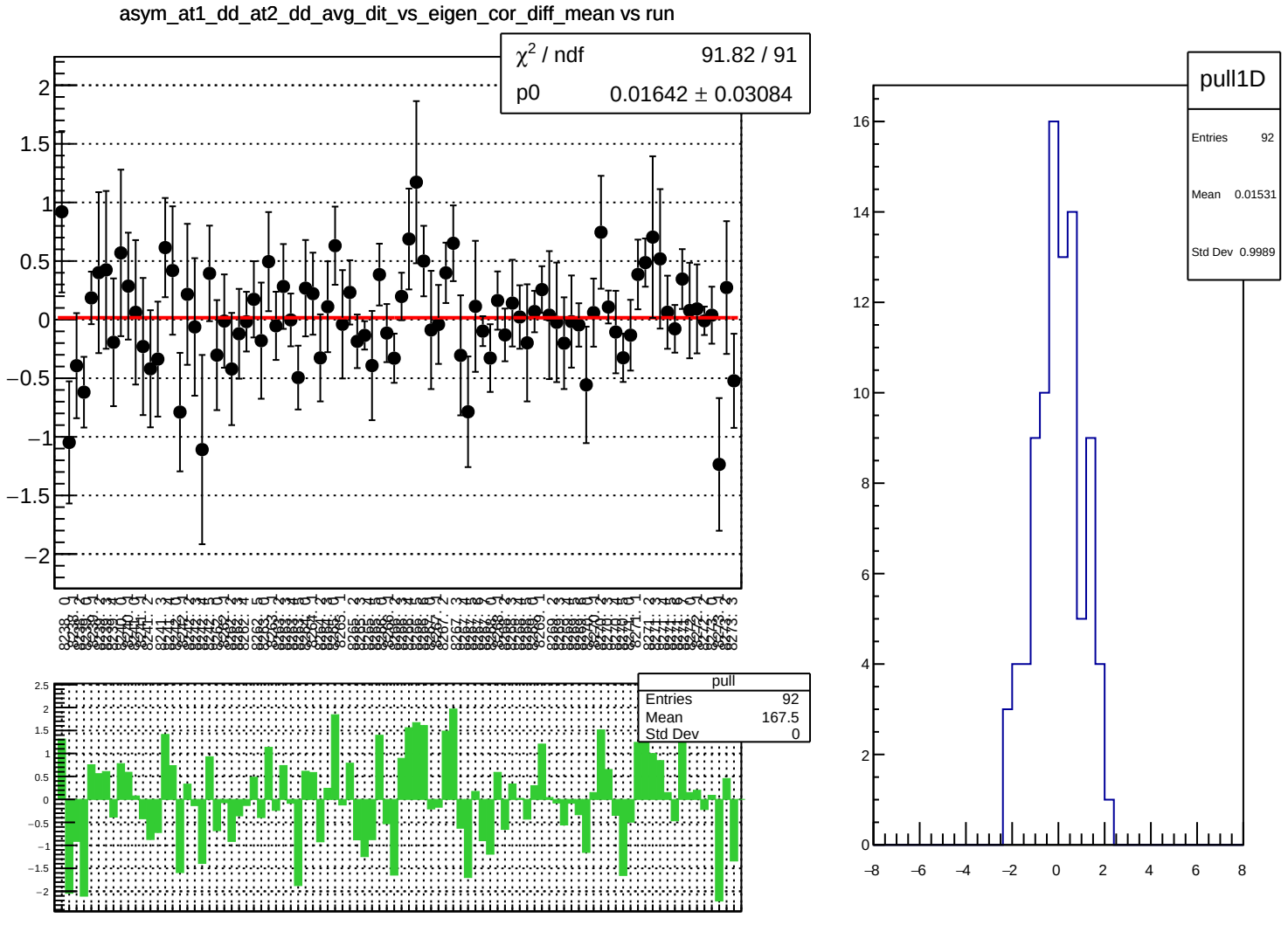

pull1D
Entries 92
Mean −0.06883
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

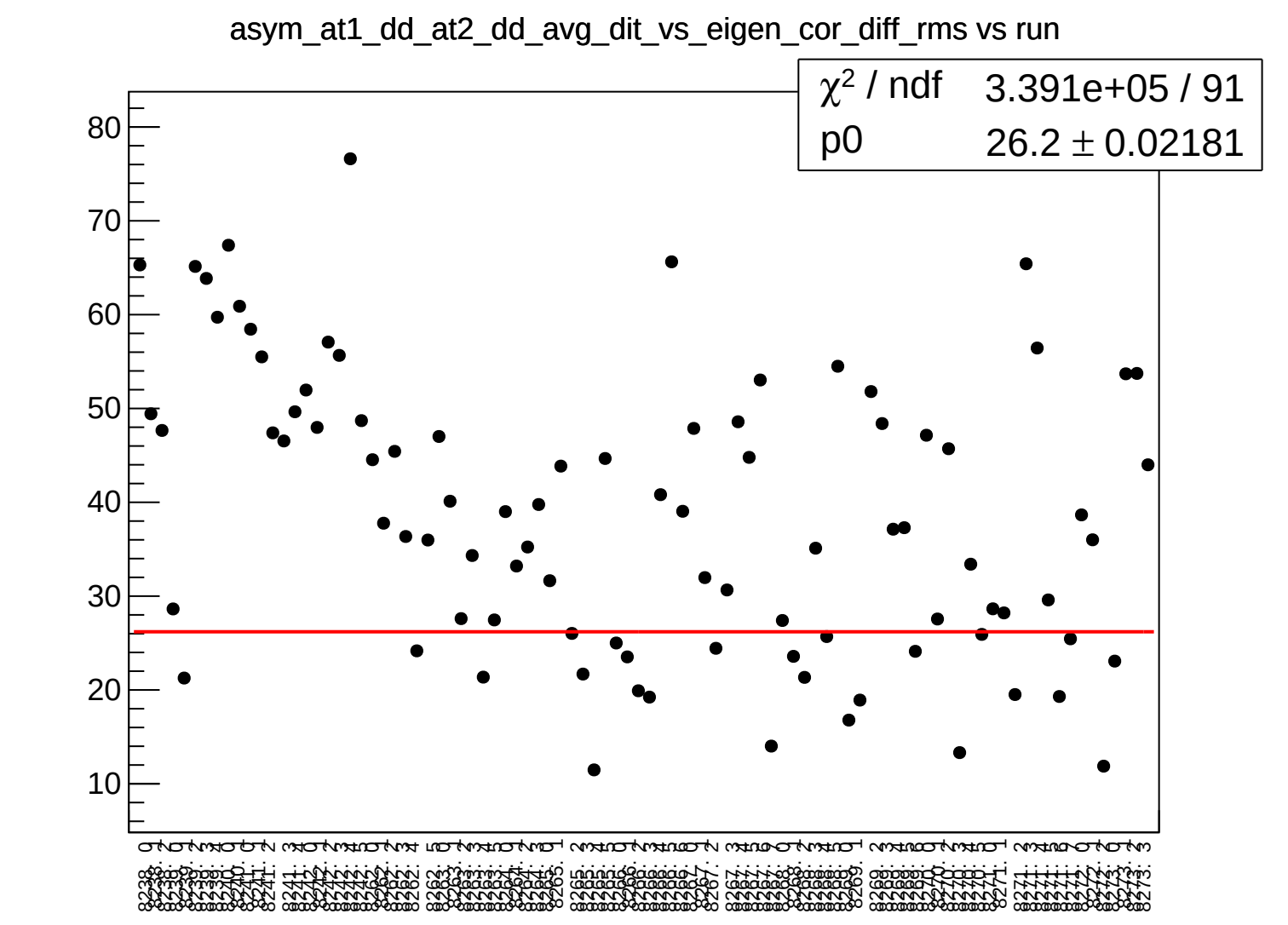

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.771e+05 / 91
p0 6.912e−11 ± 7.7e−14
1
0.8
0.6
0.4
0.2
0

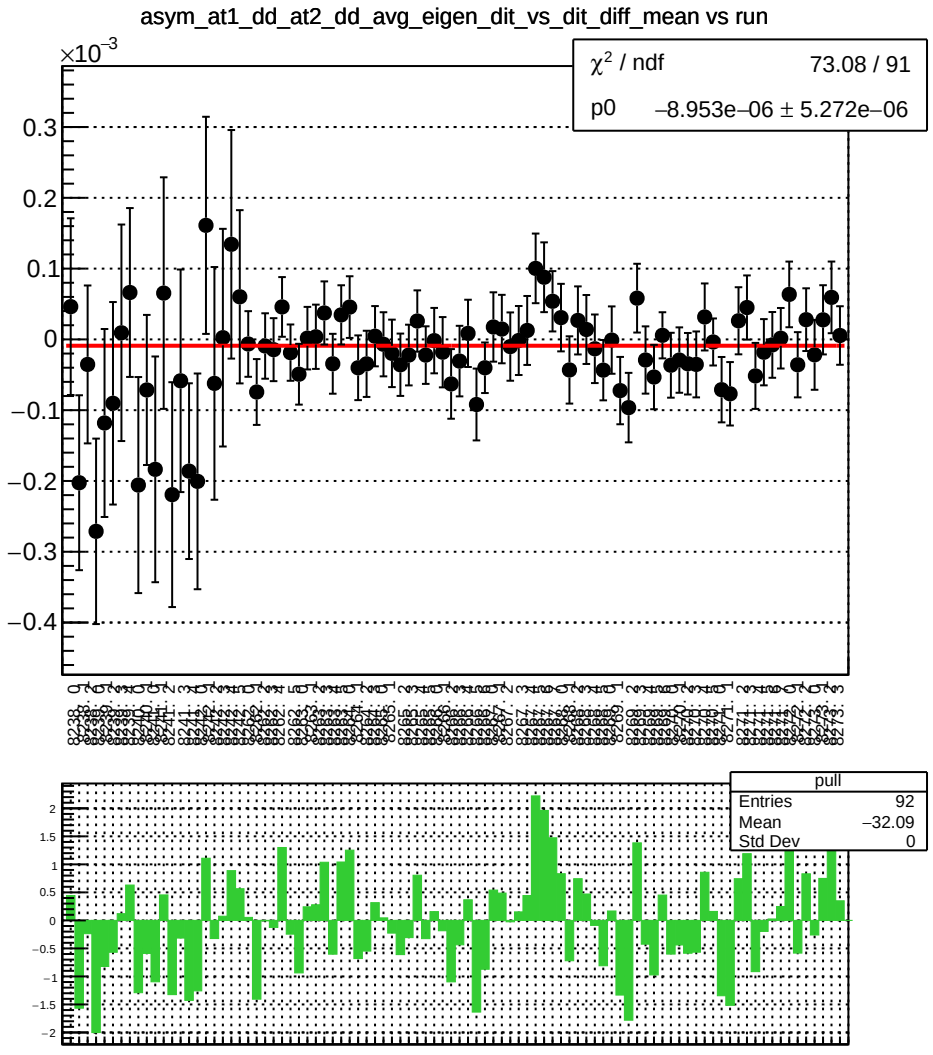

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.82 / 91
p0 0.01642 ± 0.03084
pull
Entries 92
Mean 167.5
Std Dev 0

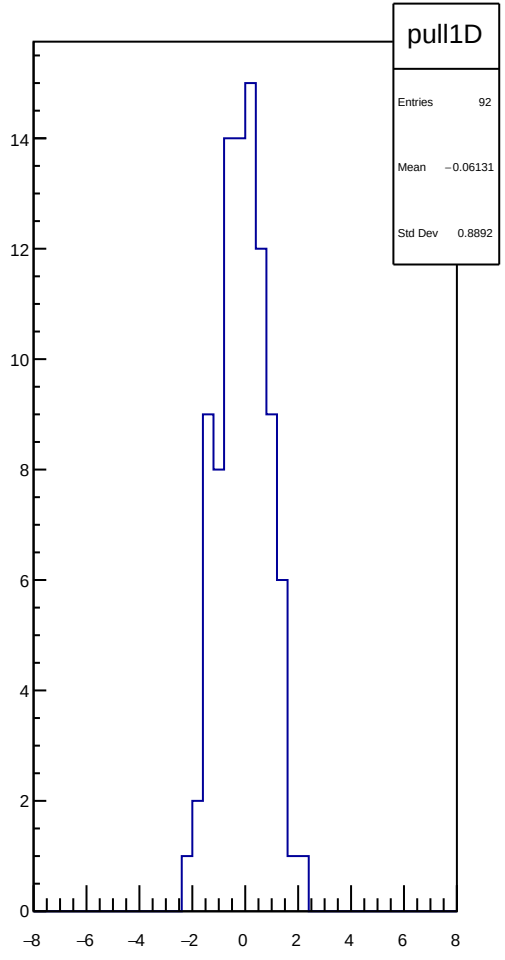

pull1D
Entries 92
Mean 0.01531
Std Dev 0.9989

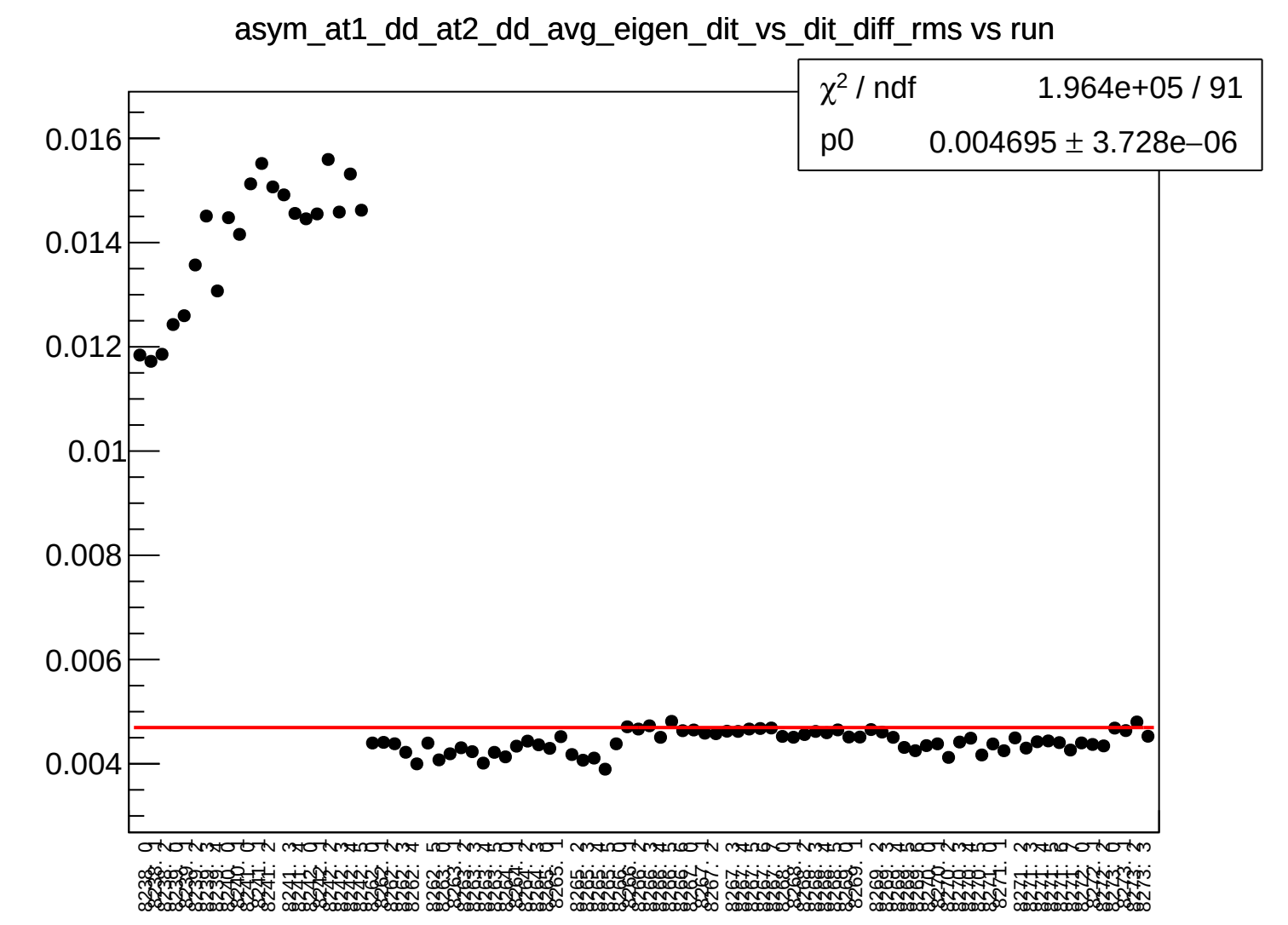

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.391e+05 / 91
p0 26.2 ± 0.02181
80
70
60
50
40
30
20
10

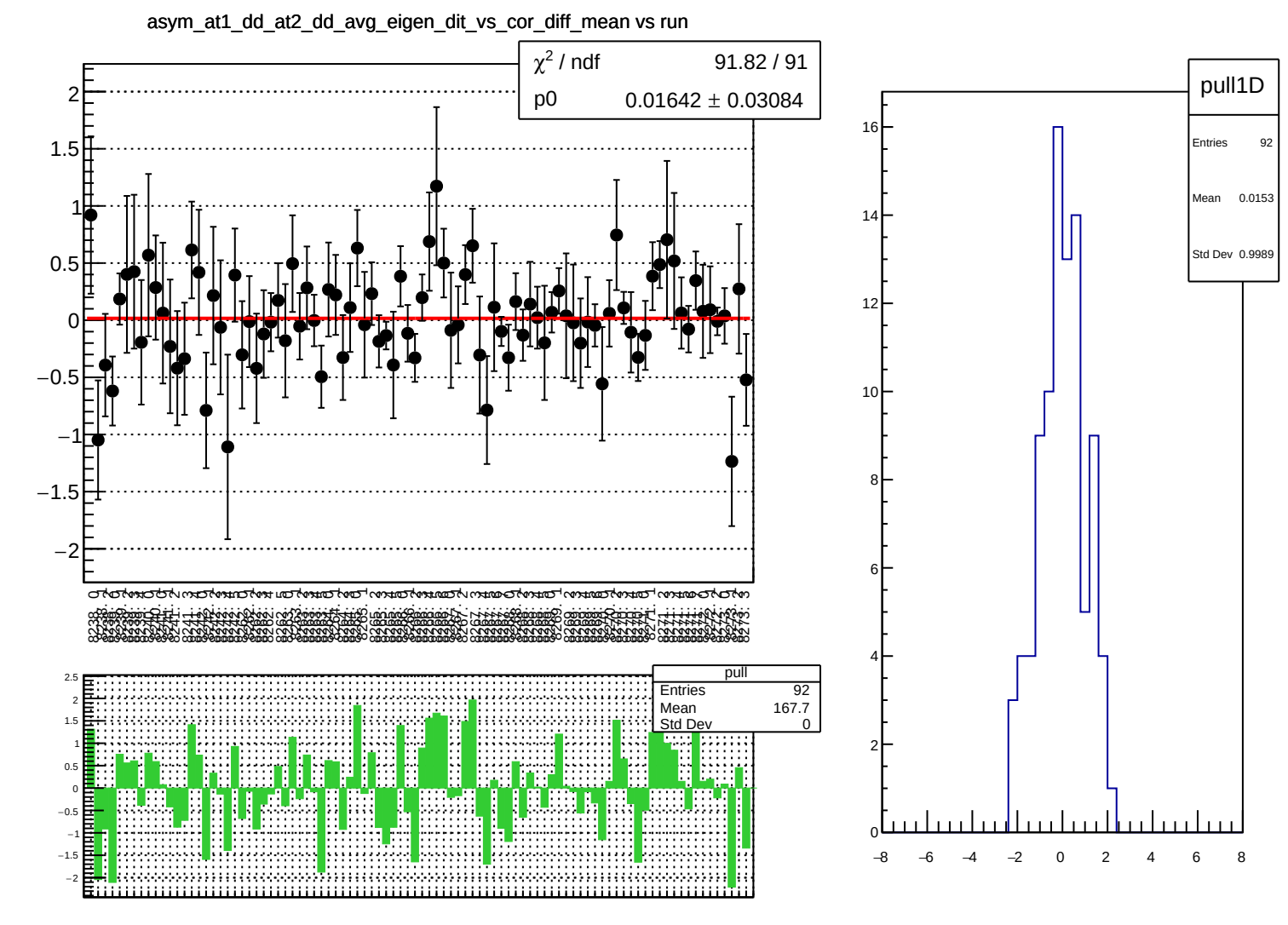

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.82 / 91
p0 0.01642 ± 0.03084
pull
Entries 92
Mean 167.5
Std Dev 0
pull1D
Entries 92
Mean 0.01531
Std Dev 0.9989

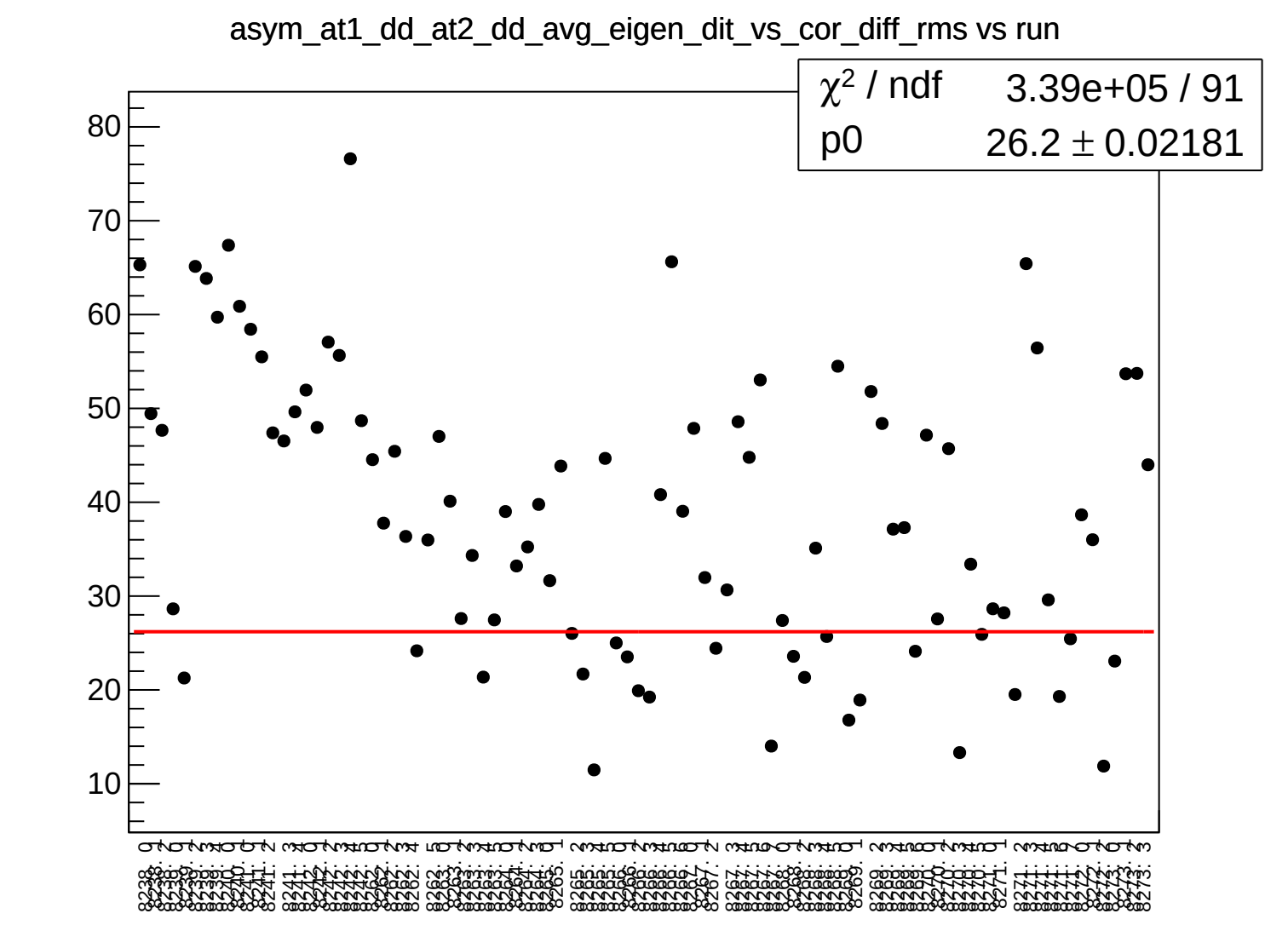

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.391e+05 / 91
p0 26.2 ± 0.02181
80
70
60
50
40
30
20
10

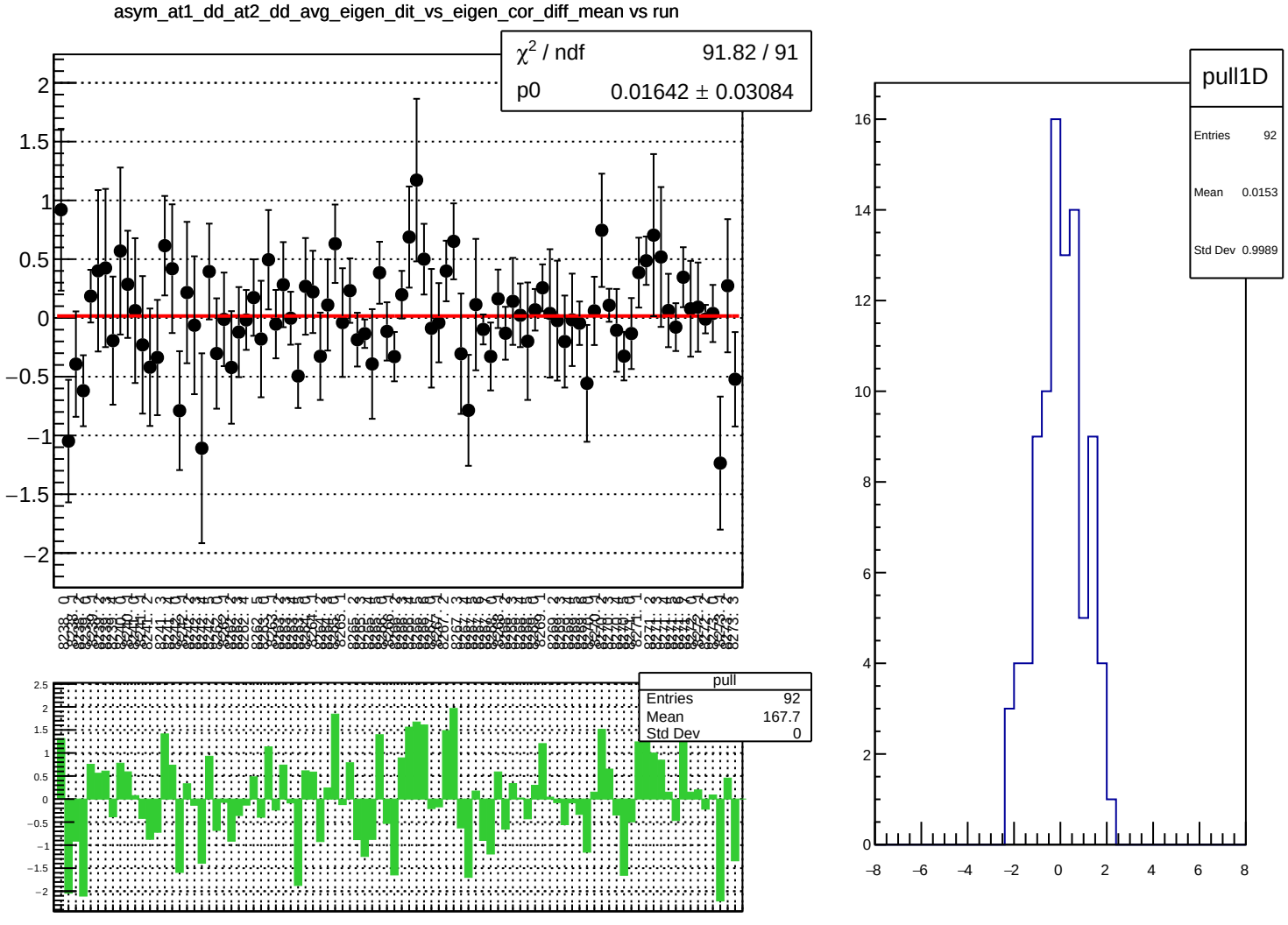

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 73.08 / 91
p0 −8.953e−06 ± 5.272e−06
pull
Entries 92
Mean −32.09
Std Dev 0

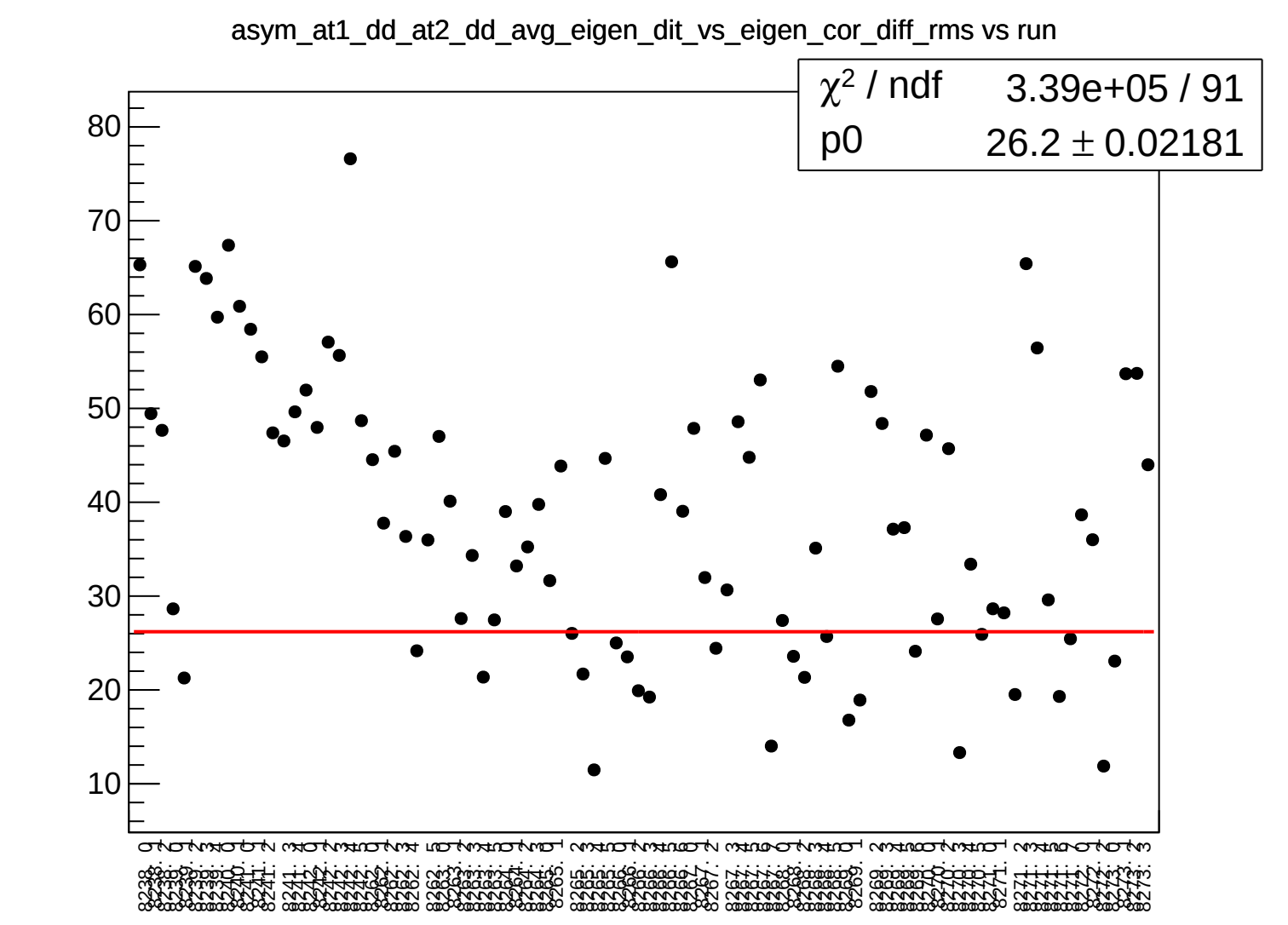

pull1D
Entries 92
Mean −0.06131
Std Dev 0.8892

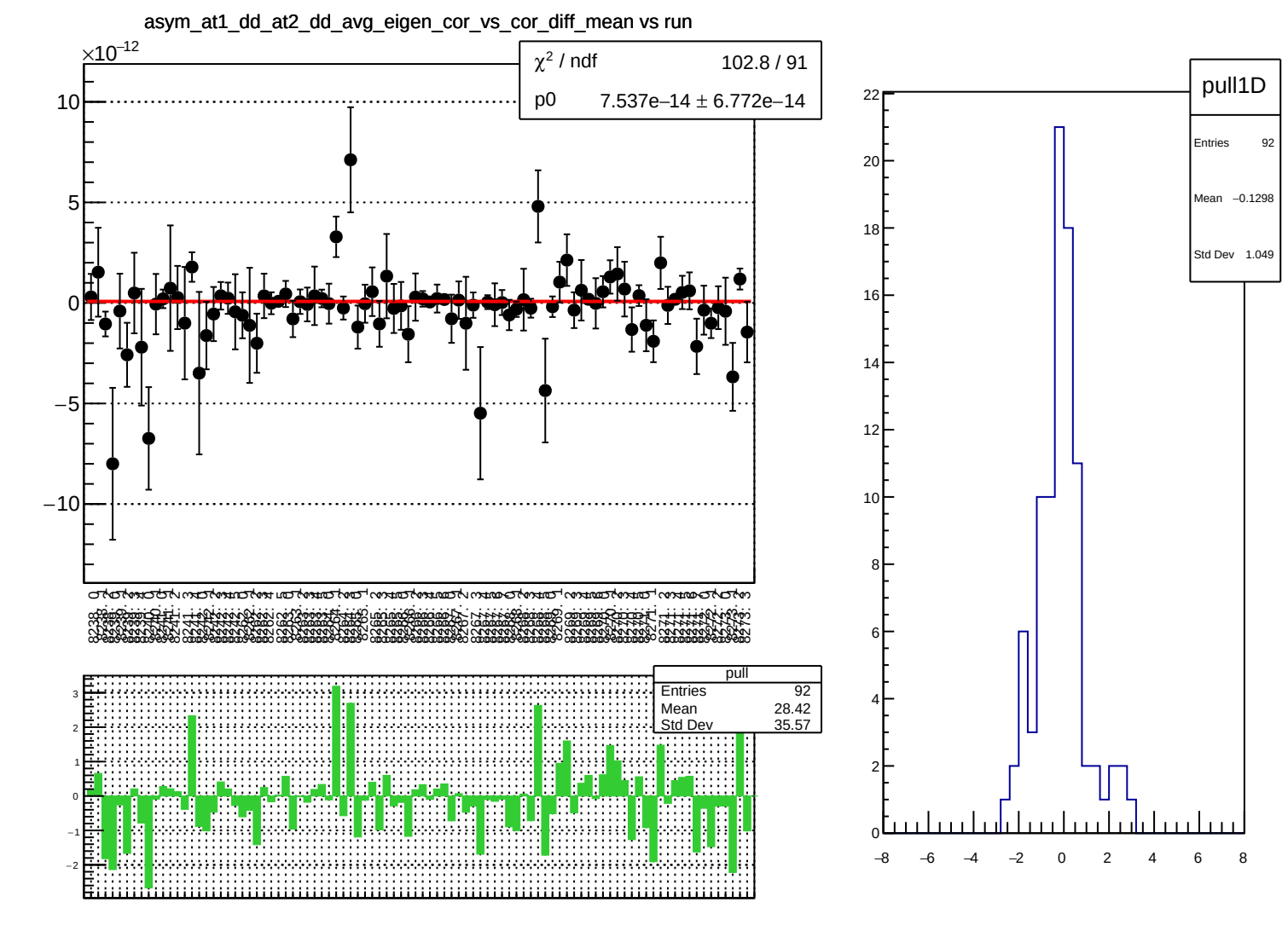

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.964e+05 / 91
p0 0.004695 ± 3.728e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

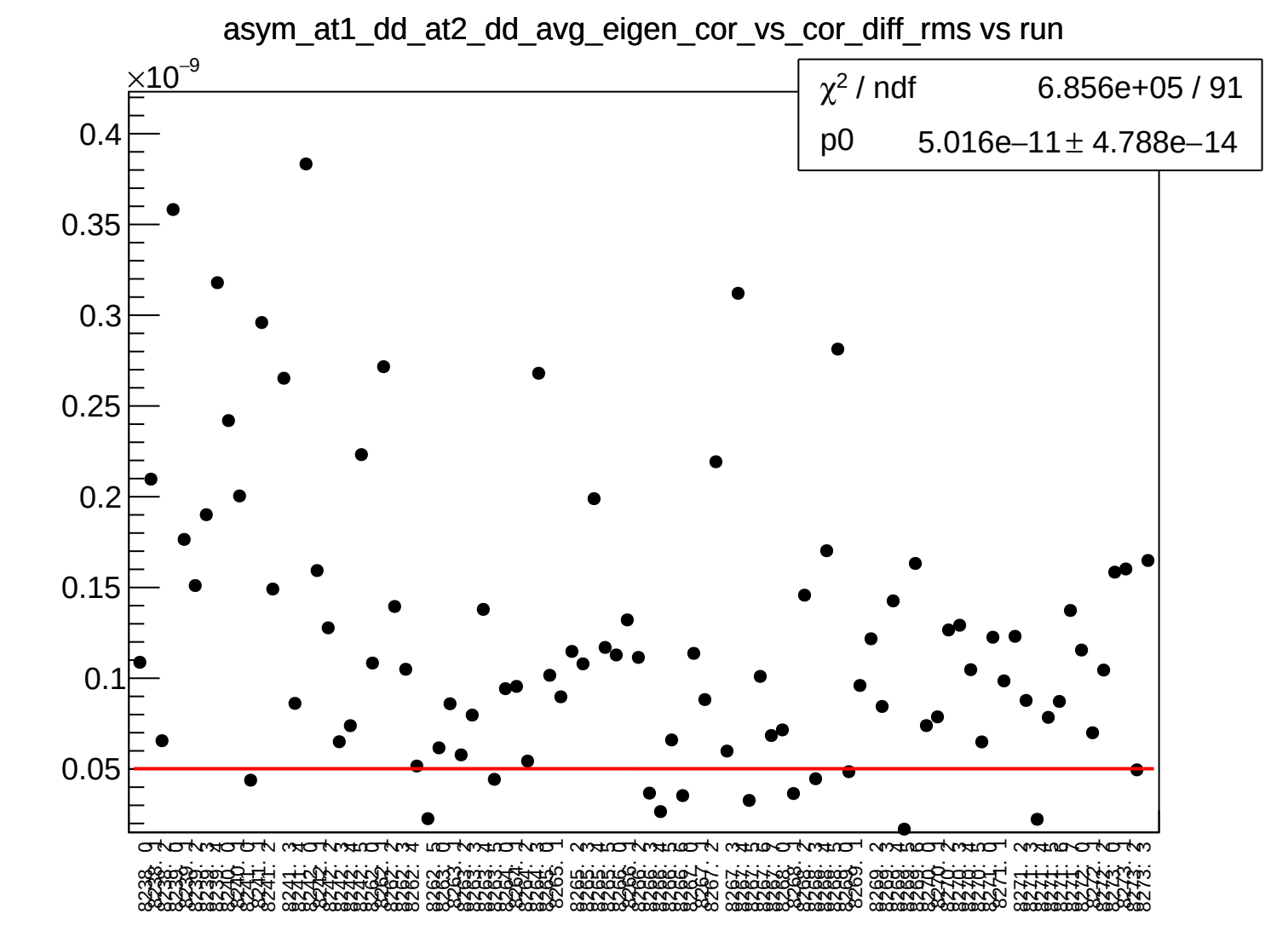

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.82 / 91
p0 0.01642 ± 0.03084
pull
Entries 92
Mean 167.7
Std Dev 0
pull1D
Entries 92
Mean 0.0153
Std Dev 0.9989

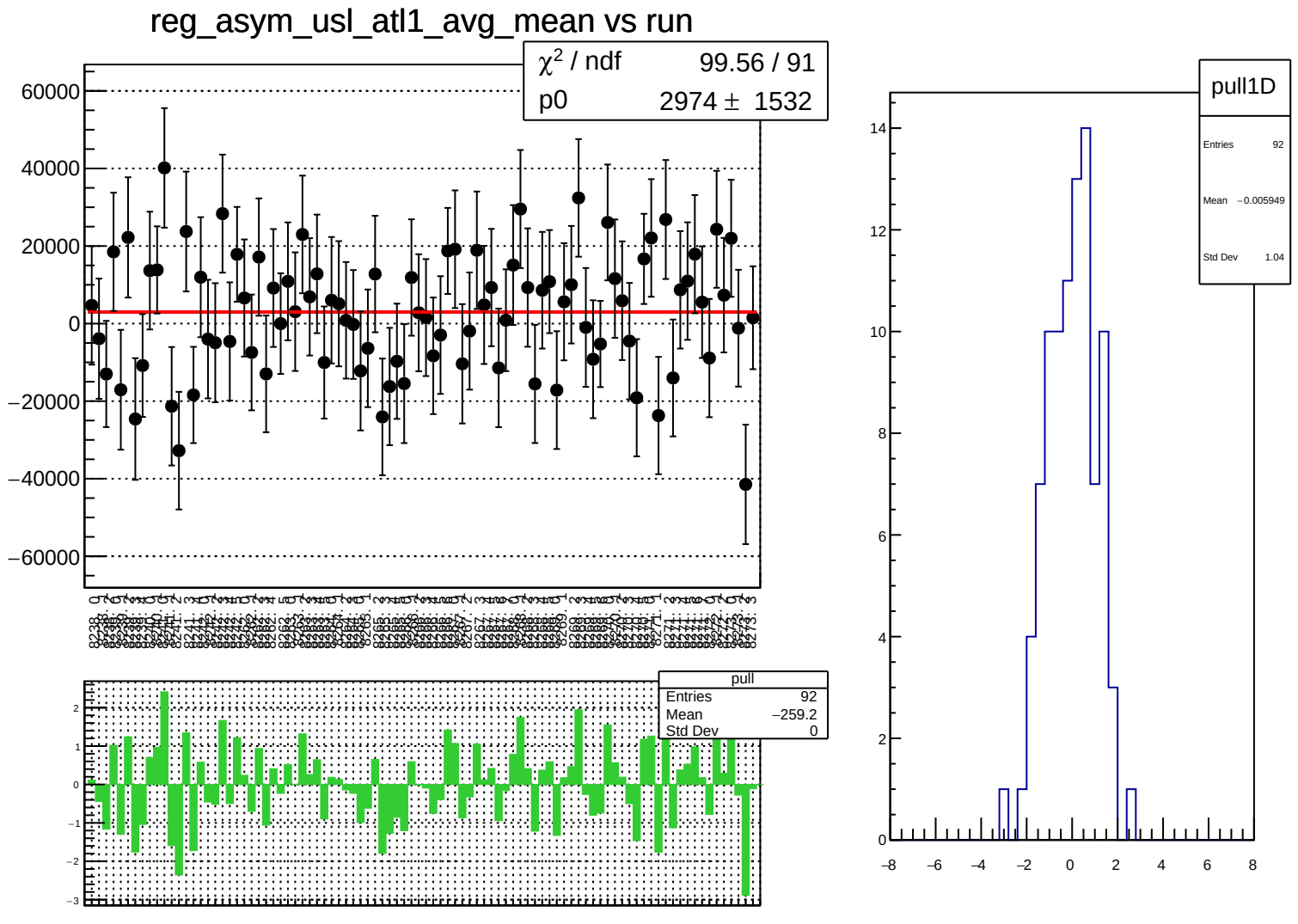

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.39e+05 / 91
p0 26.2 ± 0.02181
80
70
60
50
40
30
20
10

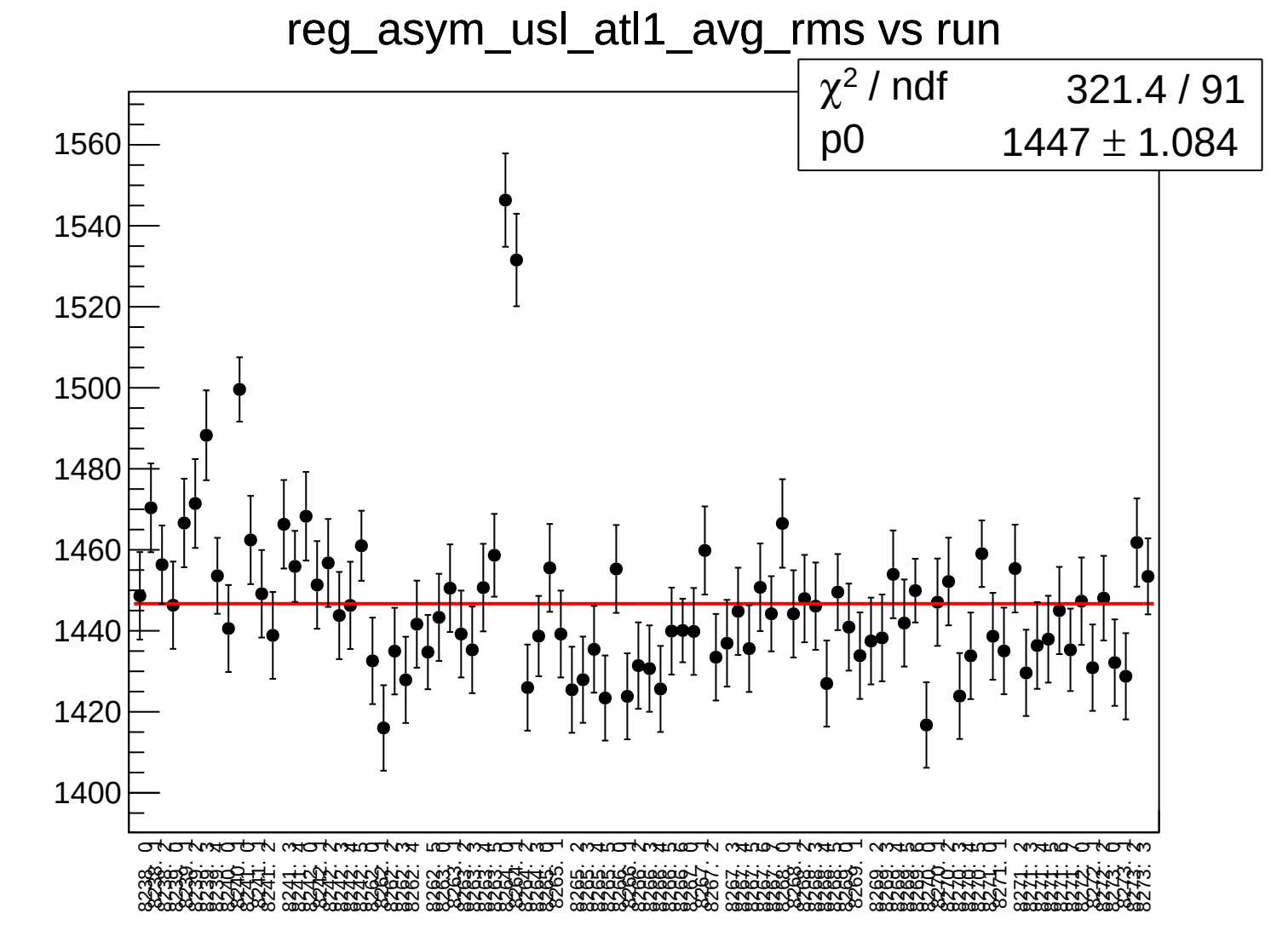

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.82 / 91
p0 0.01642 ± 0.03084
pull
Entries 92
Mean 167.7
Std Dev 0
pull1D
Entries 92
Mean 0.0153
Std Dev 0.9989

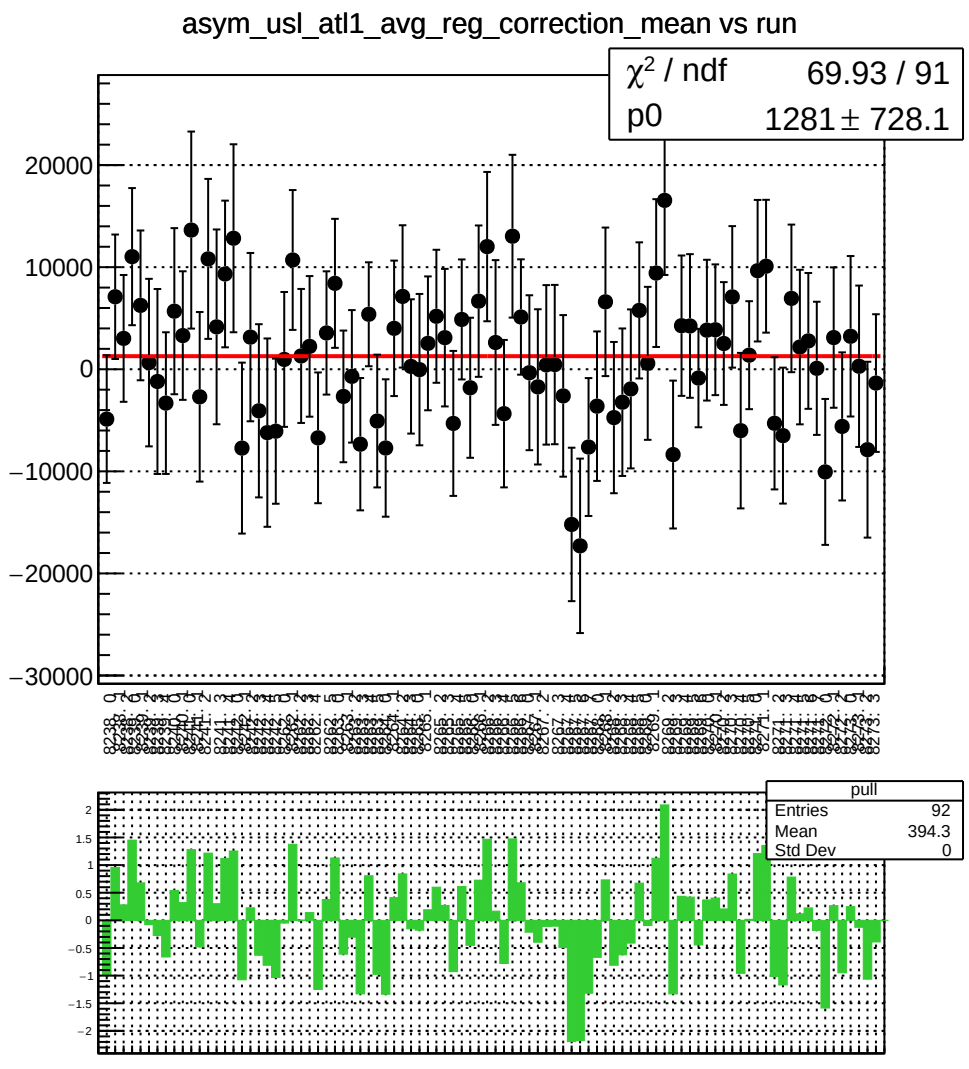

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.39e+05 / 91
p0 26.2 ± 0.02181
80
70
60
50
40
30
20
10

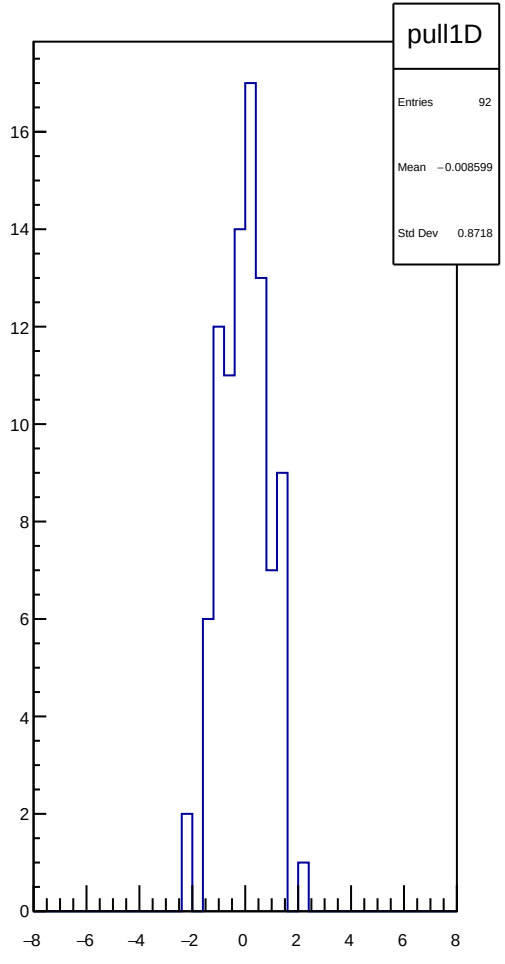

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 102.8 / 91
p0 7.537e−14 ± 6.772e−14
pull
Entries 92
Mean 28.42
Std Dev 35.57
pull1D
Entries 92
Mean −0.1298
Std Dev 1.049

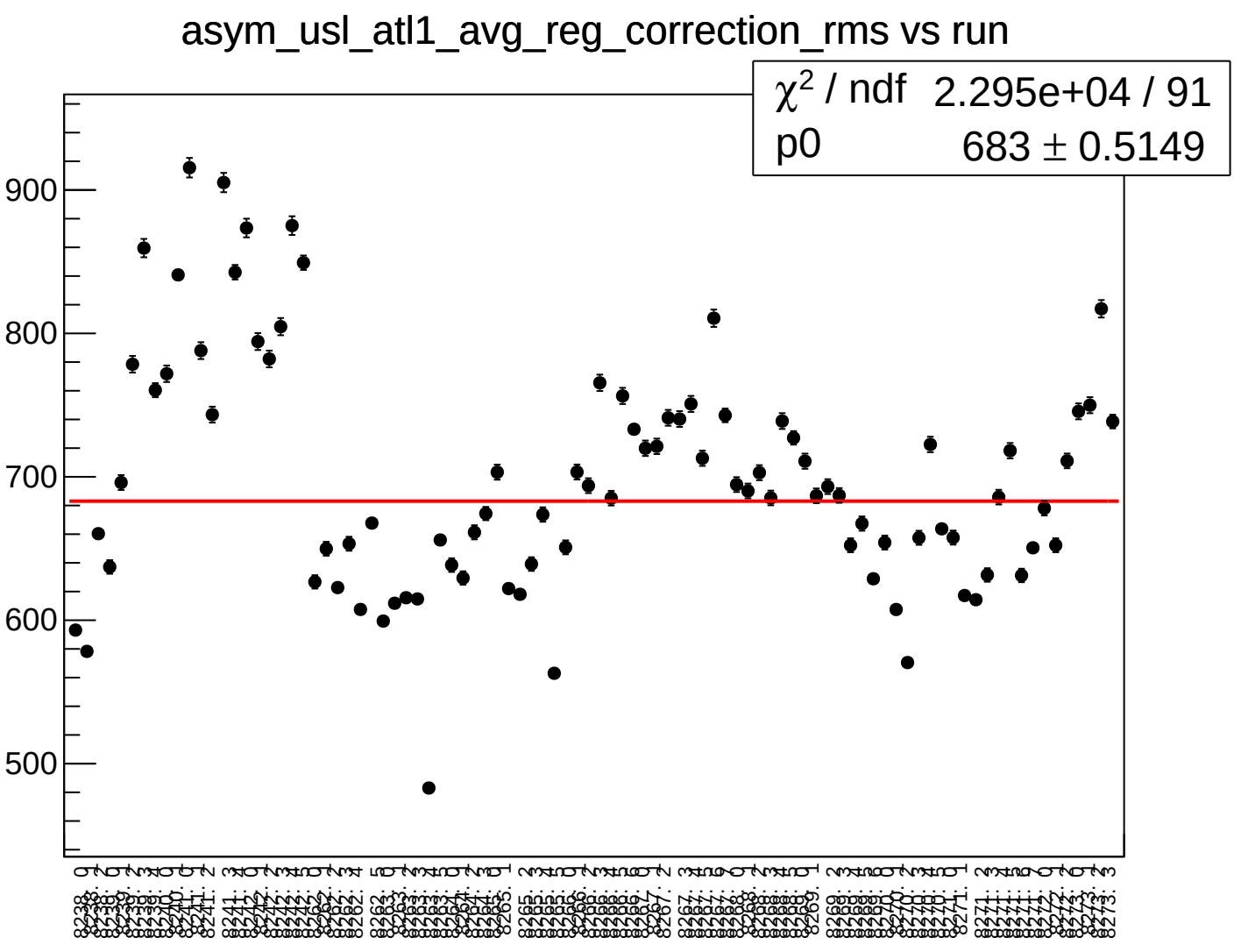

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.856e+05 / 91
p0 5.016e−11 ± 4.788e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

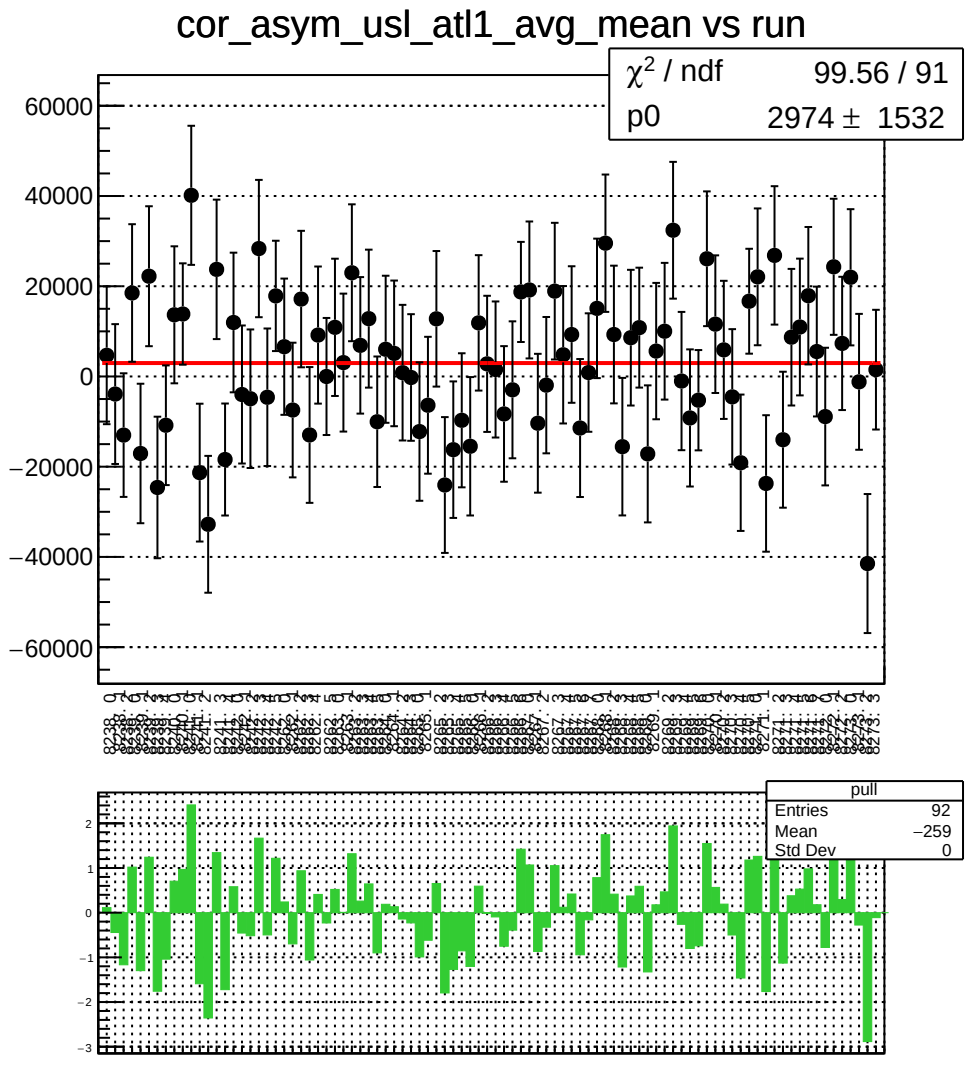

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 99.56 / 91
p0 2974 ± 1532
pull
Entries 92
Mean −259.2
Std Dev 0
pull1D
Entries 92
Mean −0.005949
Std Dev 1.04

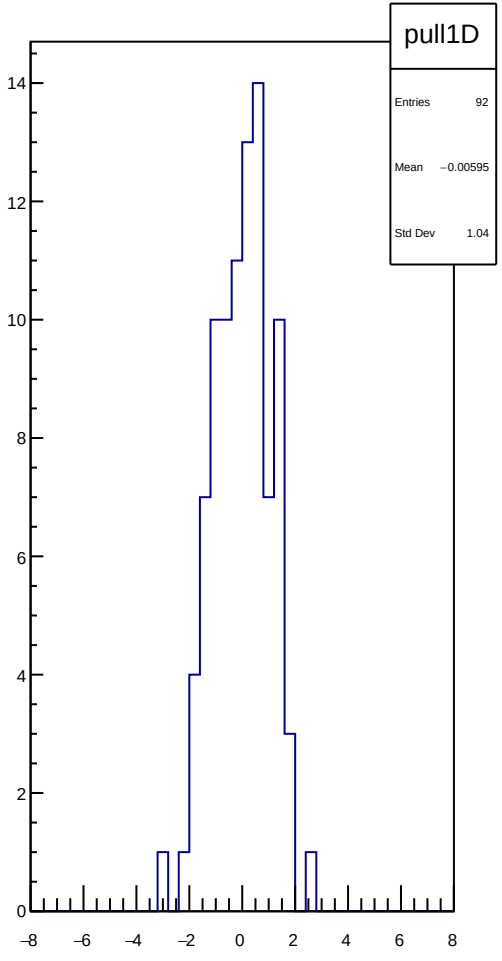

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 321.4 / 91
p0 1447 ± 1.084
1560
1540
1520
1500
1480
1460
1440
1420
1400

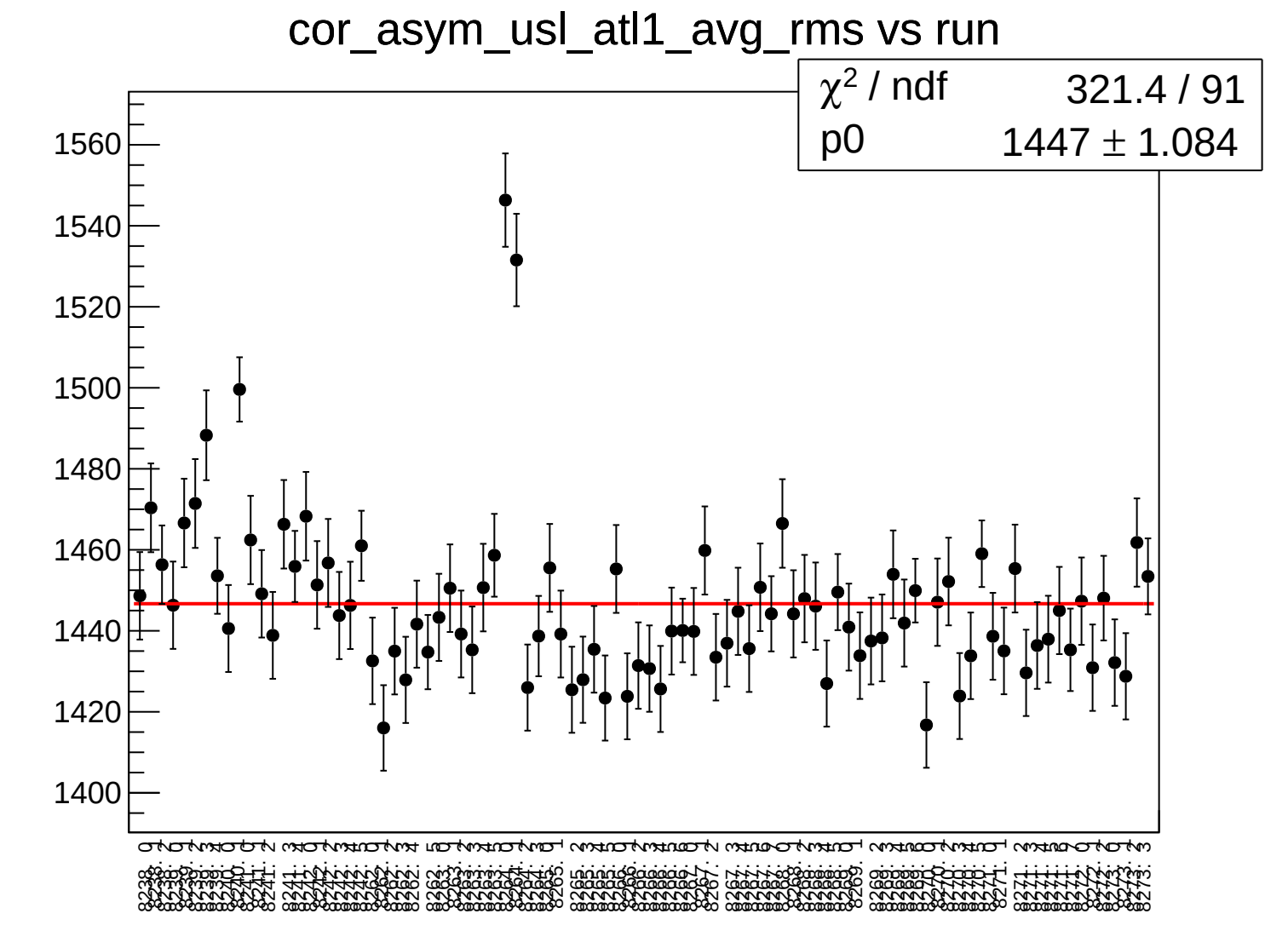

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 69.93 / 91
p0 1281 ± 728.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 394.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

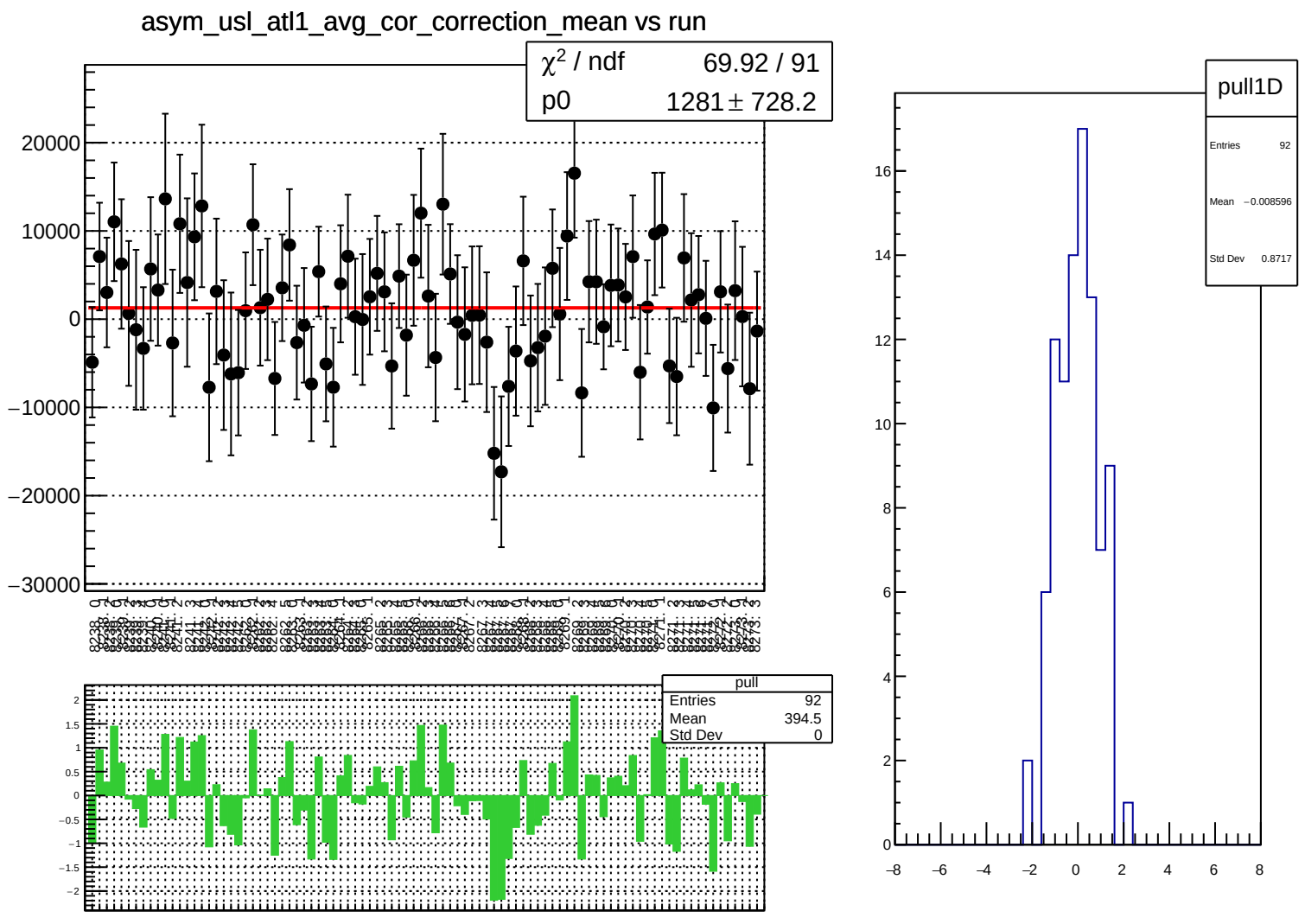

pull1D
Entries 92
Mean −0.008599
Std Dev 0.8718
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

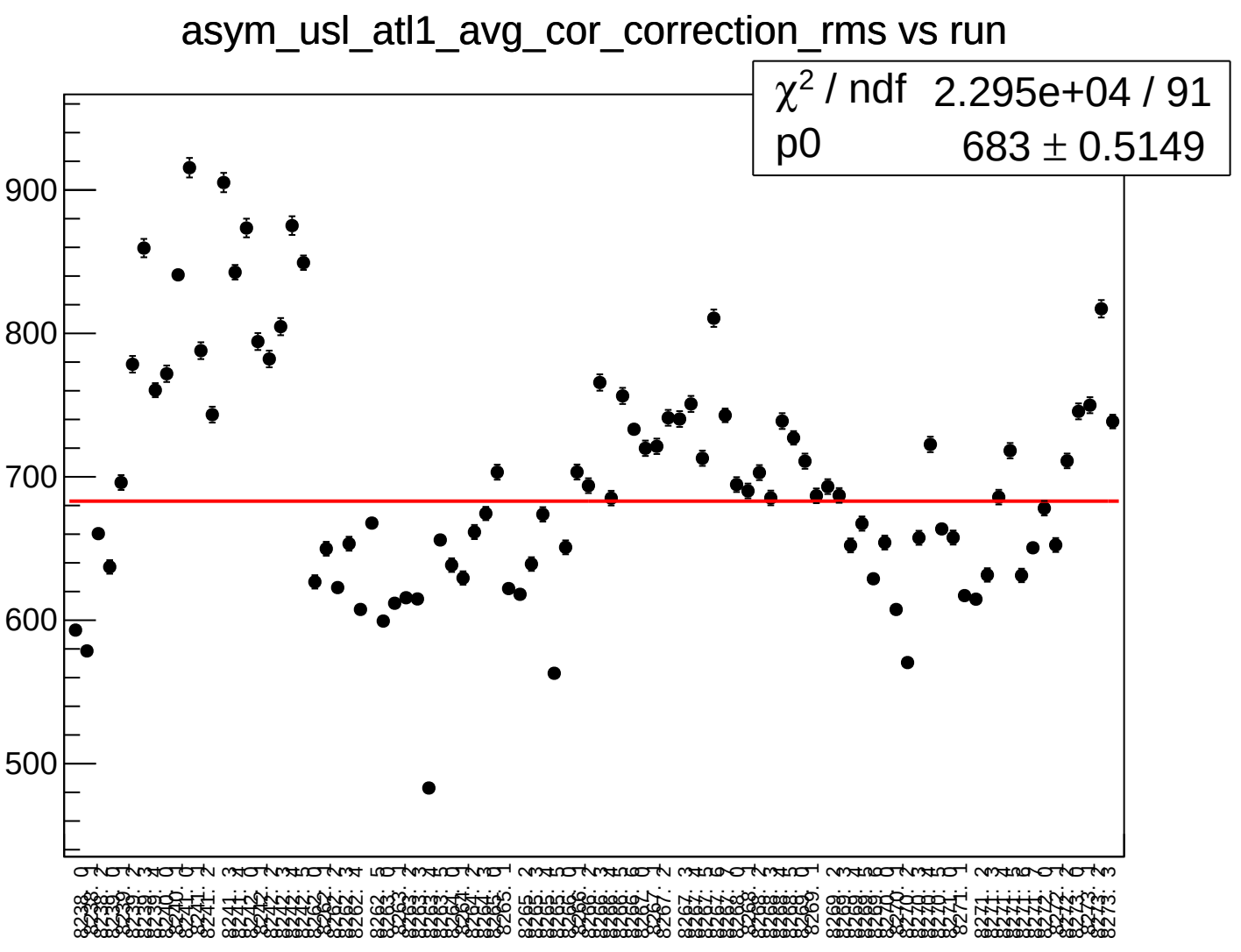

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 2.295e+04 / 91
p0 683 ± 0.5149
900
800
700
600
500

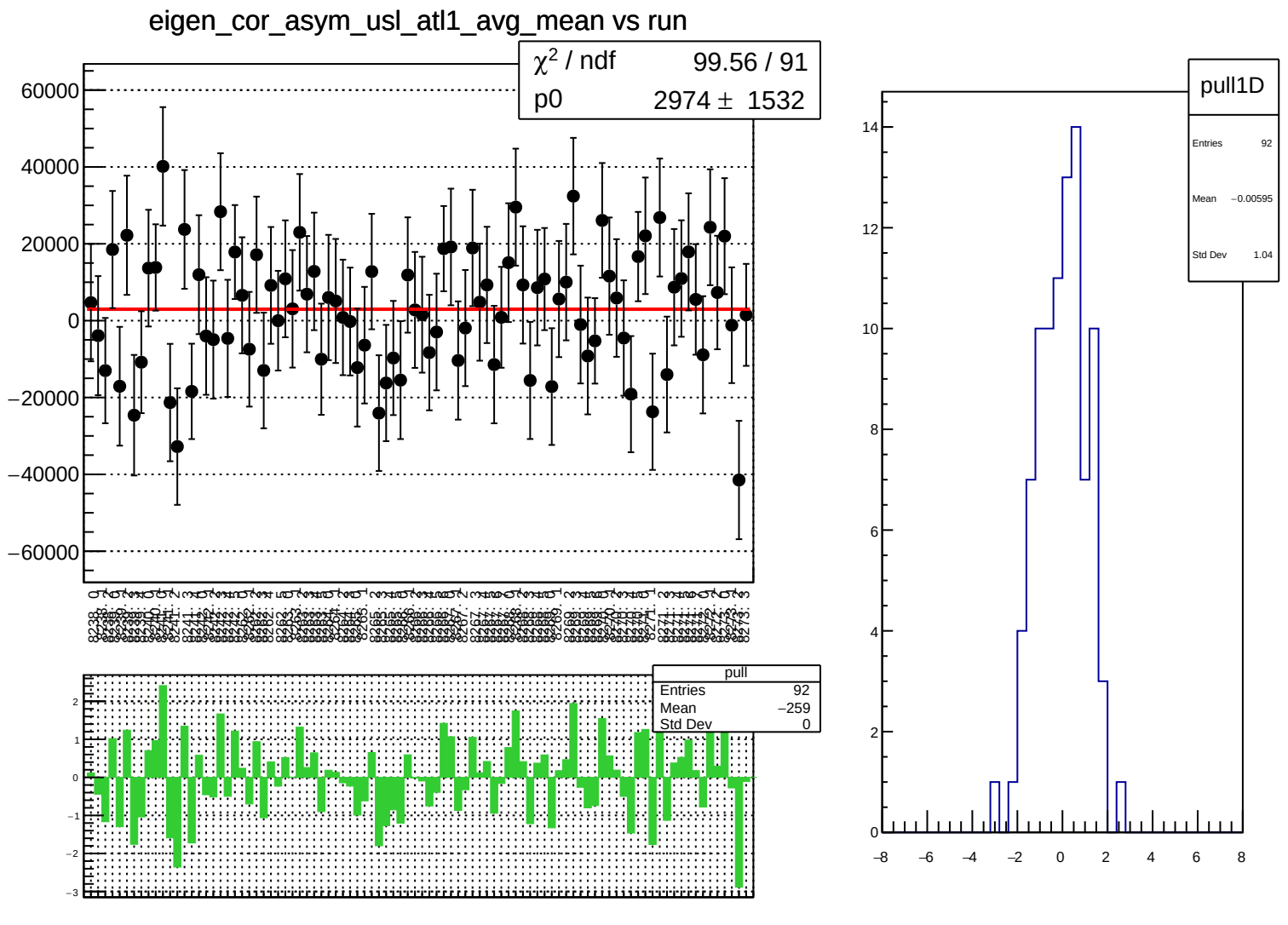

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 99.56 / 91
p0 2974 ± 1532
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −259
Std Dev 0
2
1
0
−1
−2
−3

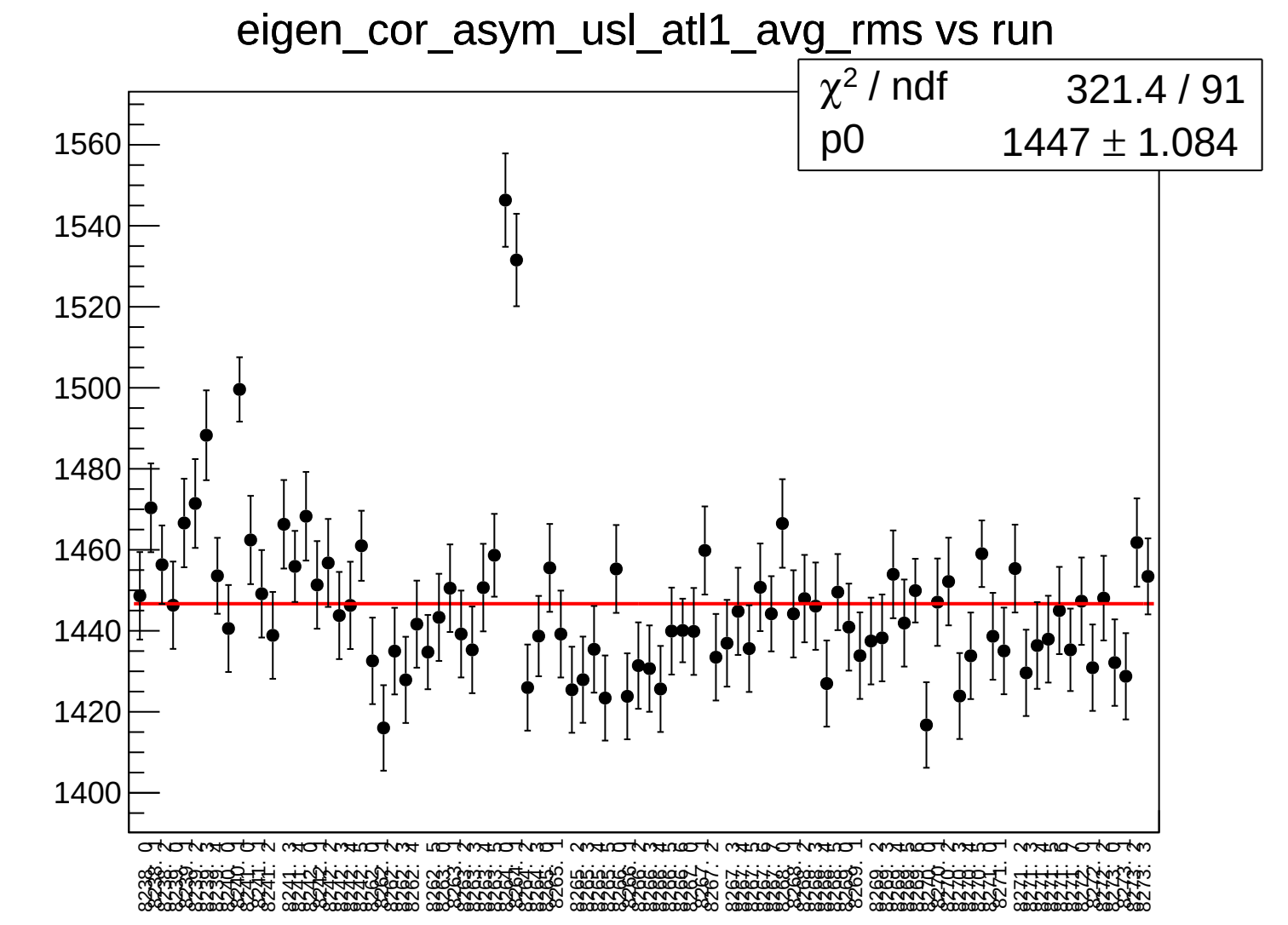

pull1D
Entries 92
Mean −0.00595
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

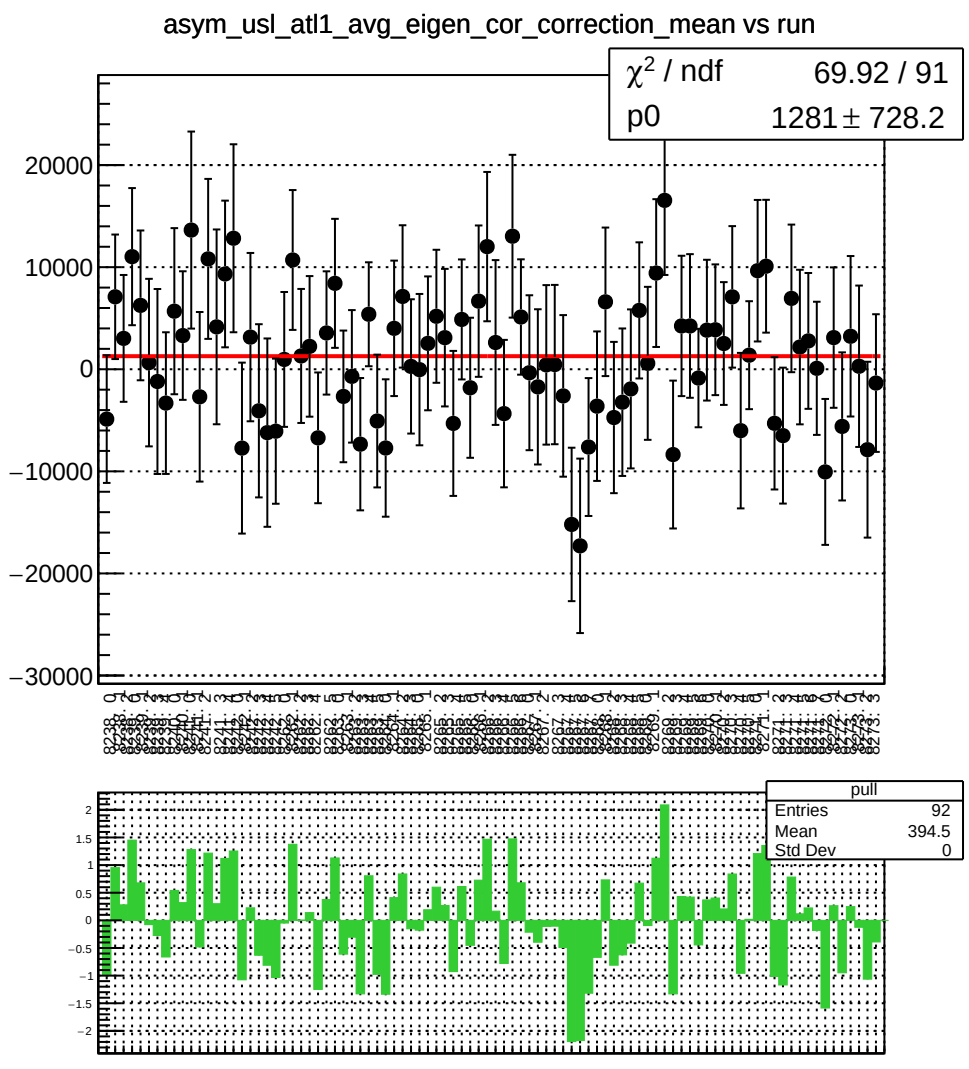

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 321.4 / 91
p0 1447 ± 1.084
1560
1540
1520
1500
1480
1460
1440
1420
1400

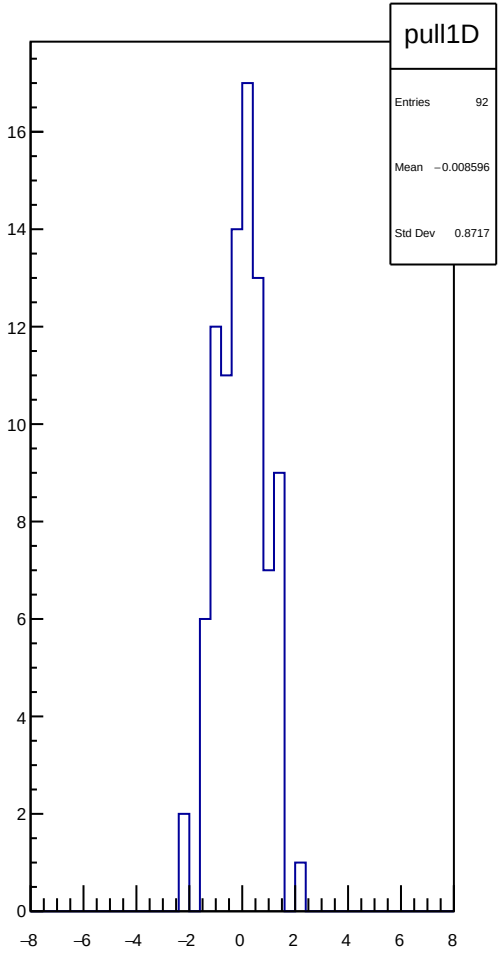

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 69.92 / 91
p0 1281 ± 728.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 394.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.008596
Std Dev 0.8717
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

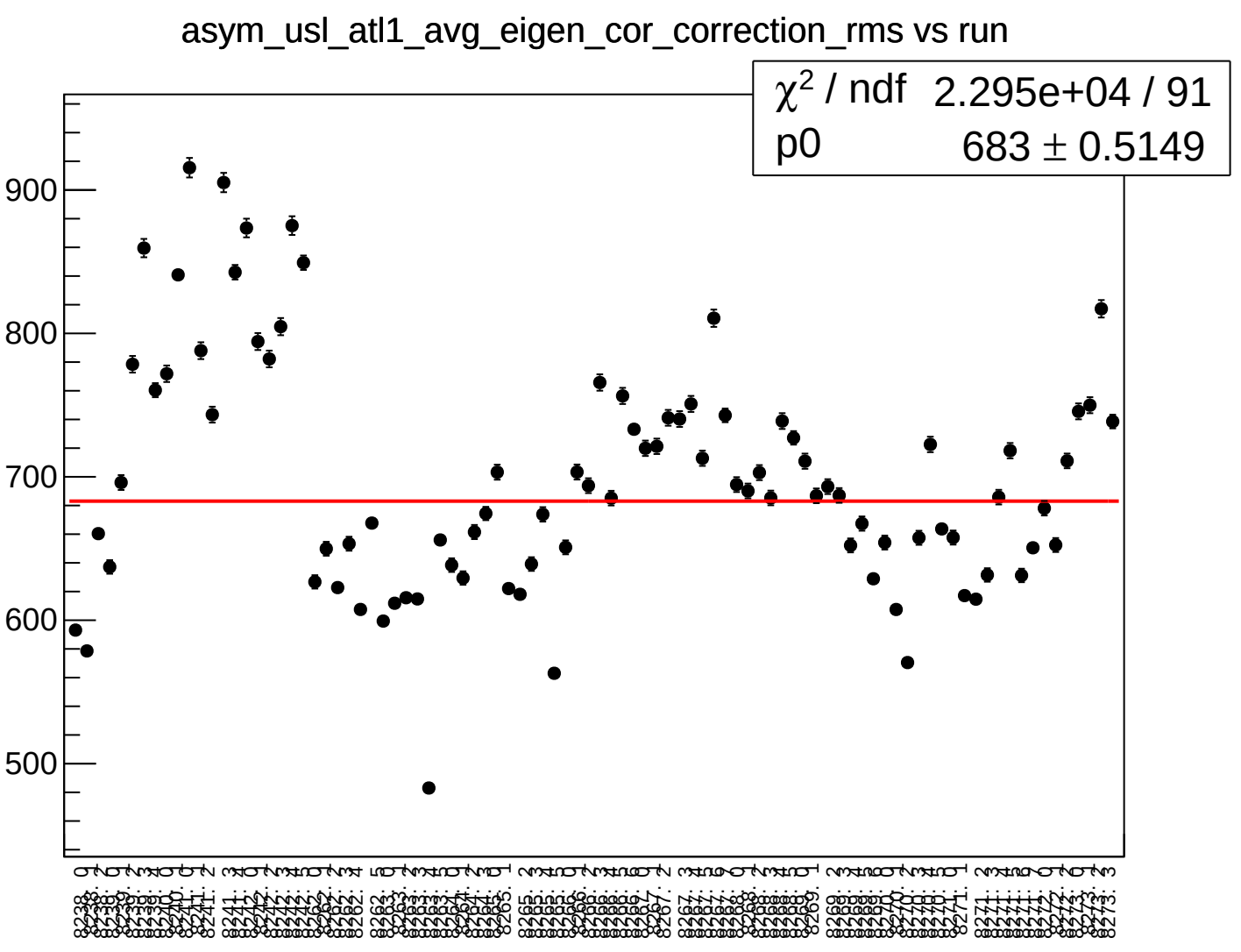

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 2.295e+04 / 91
p0 683 ± 0.5149
900
800
700
600
500

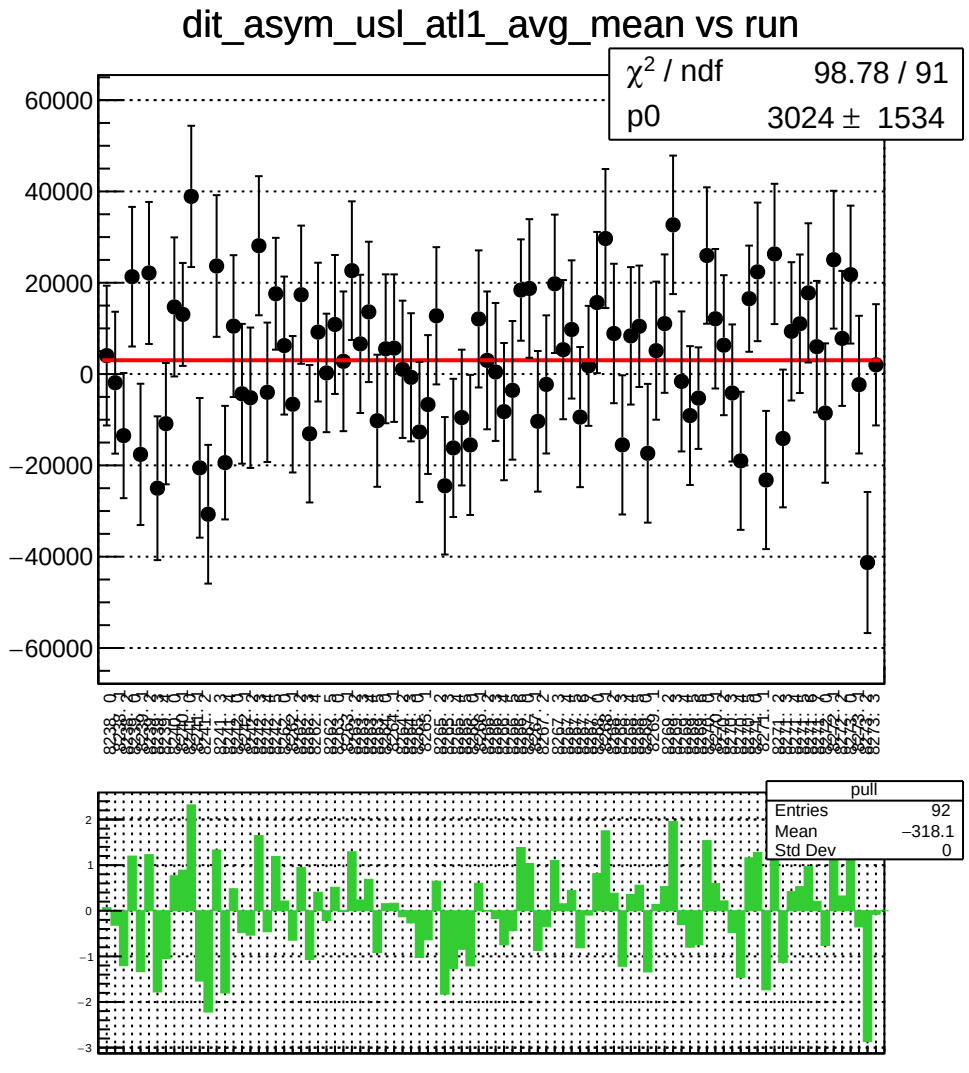

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 99.56 / 91
p0 2974 ± 1532
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −259
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.00595
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

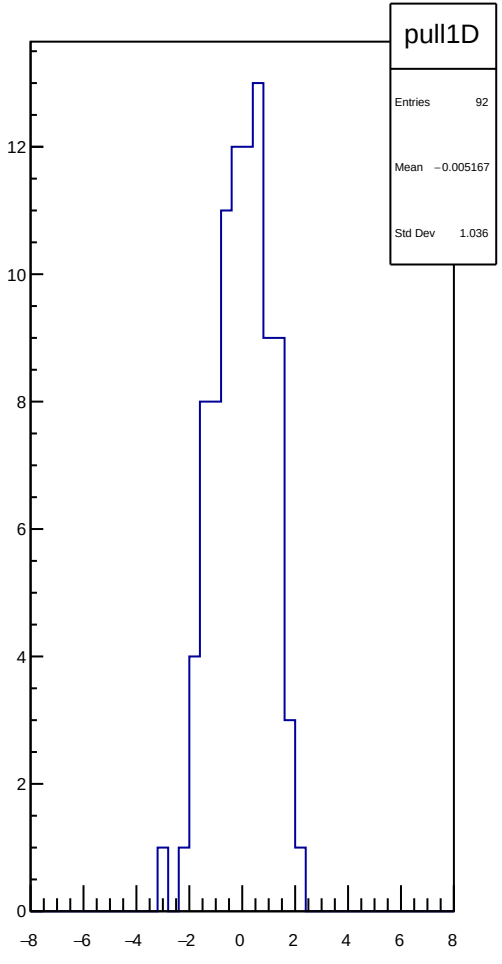

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 321.4 / 91
p0 1447 ± 1.084
1560
1540
1520
1500
1480
1460
1440
1420
1400

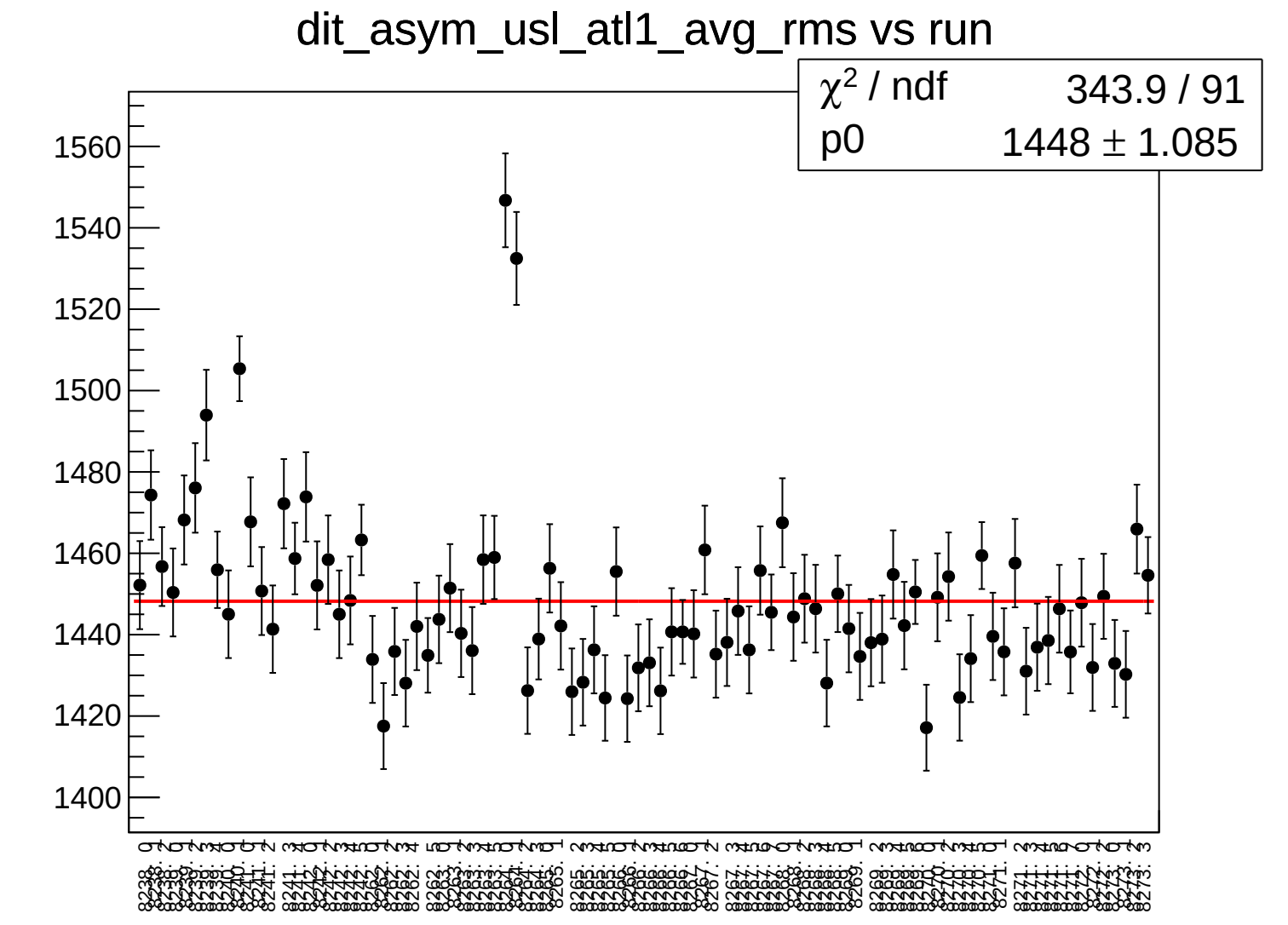

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.92 / 91
p0 1281 ± 728.2
pull
Entries 92
Mean 394.5
Std Dev 0

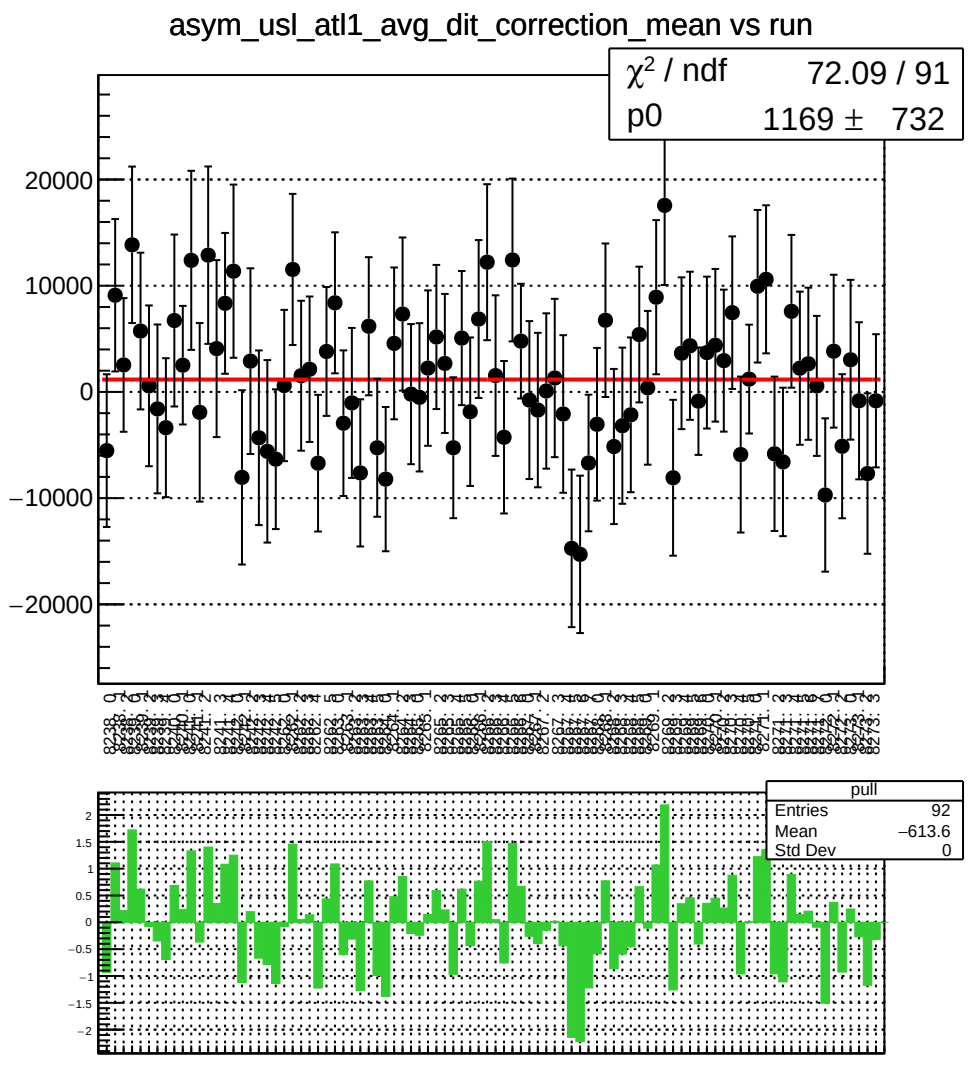

pull1D
Entries 92
Mean −0.008596
Std Dev 0.8717

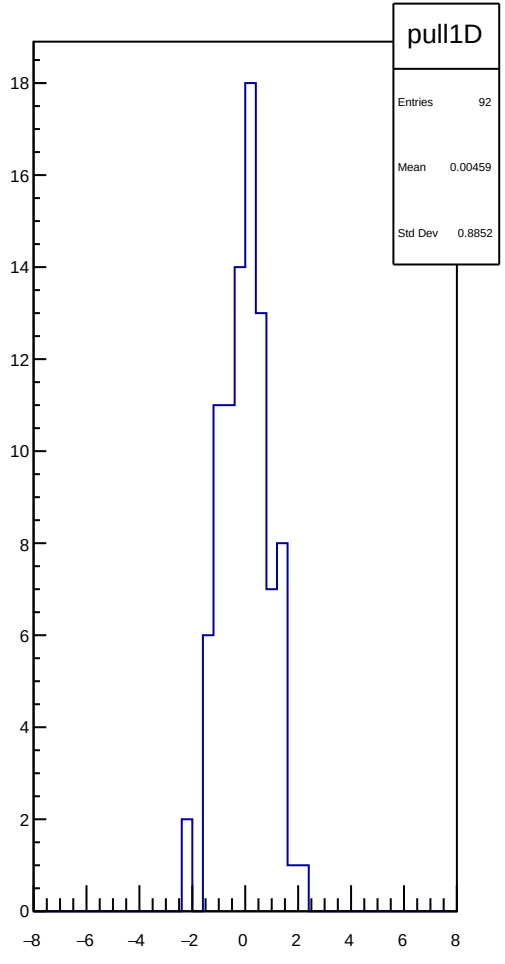

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.295e+04 / 91
p0 683 ± 0.5149
900
800
700
600
500

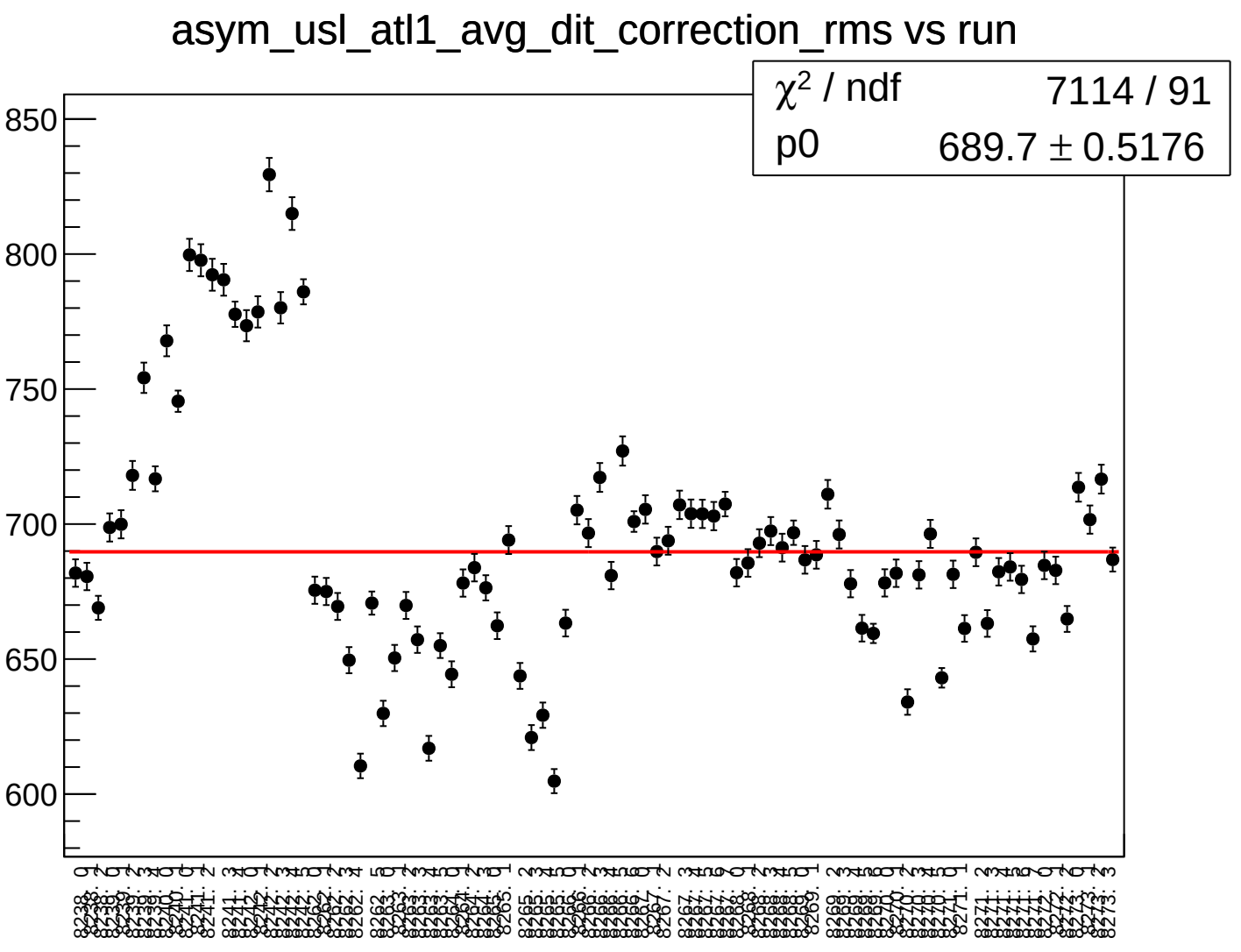

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 98.78 / 91
p0 3024 ± 1534
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −318.1
Std Dev 0
2
1
0
−1
−2
−3

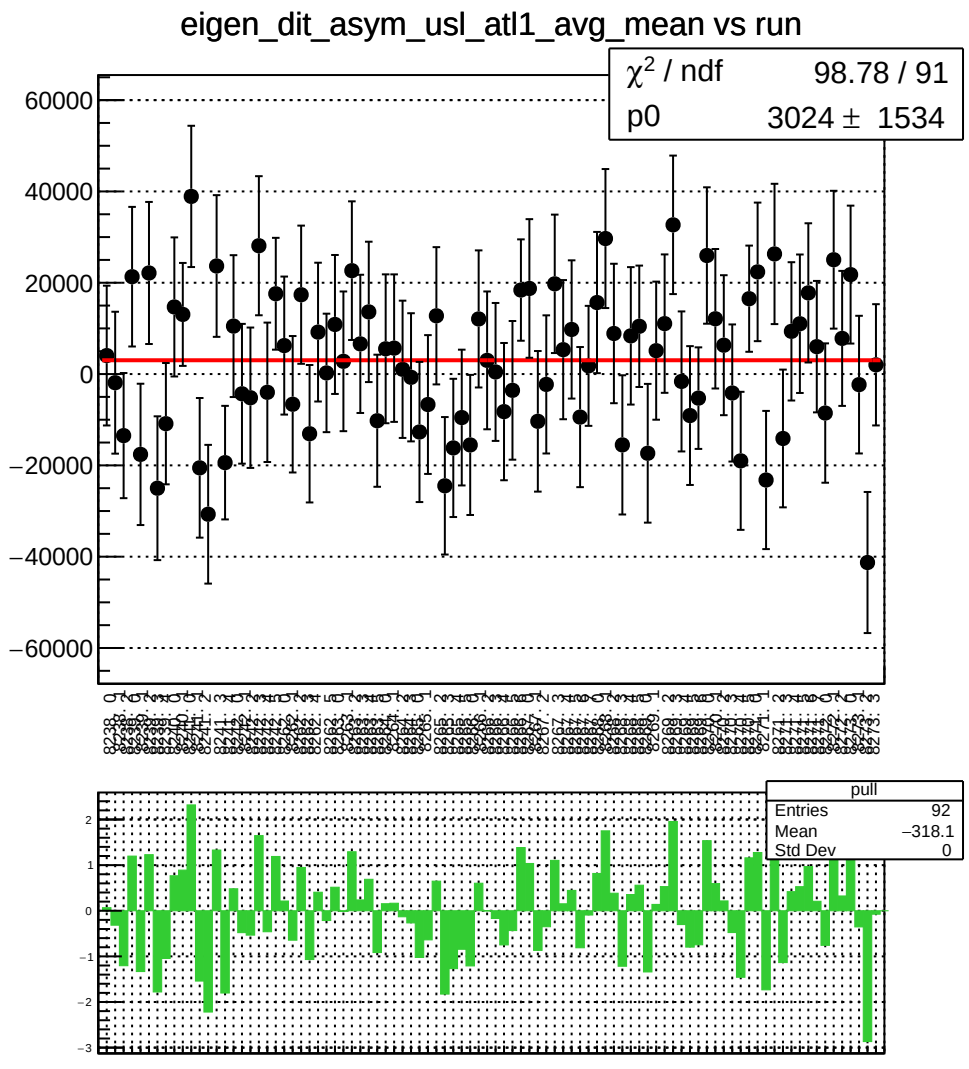

pull1D
Entries 92
Mean −0.005167
Std Dev 1.036
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

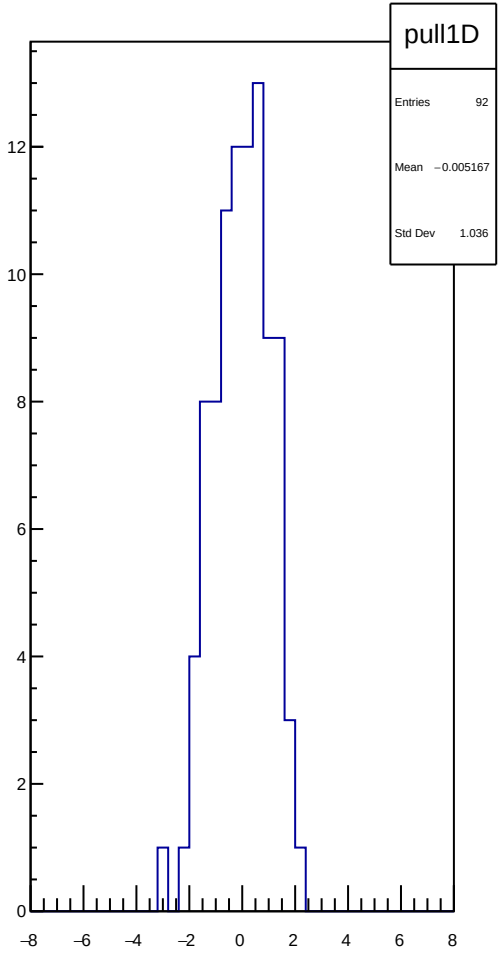

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 343.9 / 91
p0 1448 ± 1.085
1560
1540
1520
1500
1480
1460
1440
1420
1400

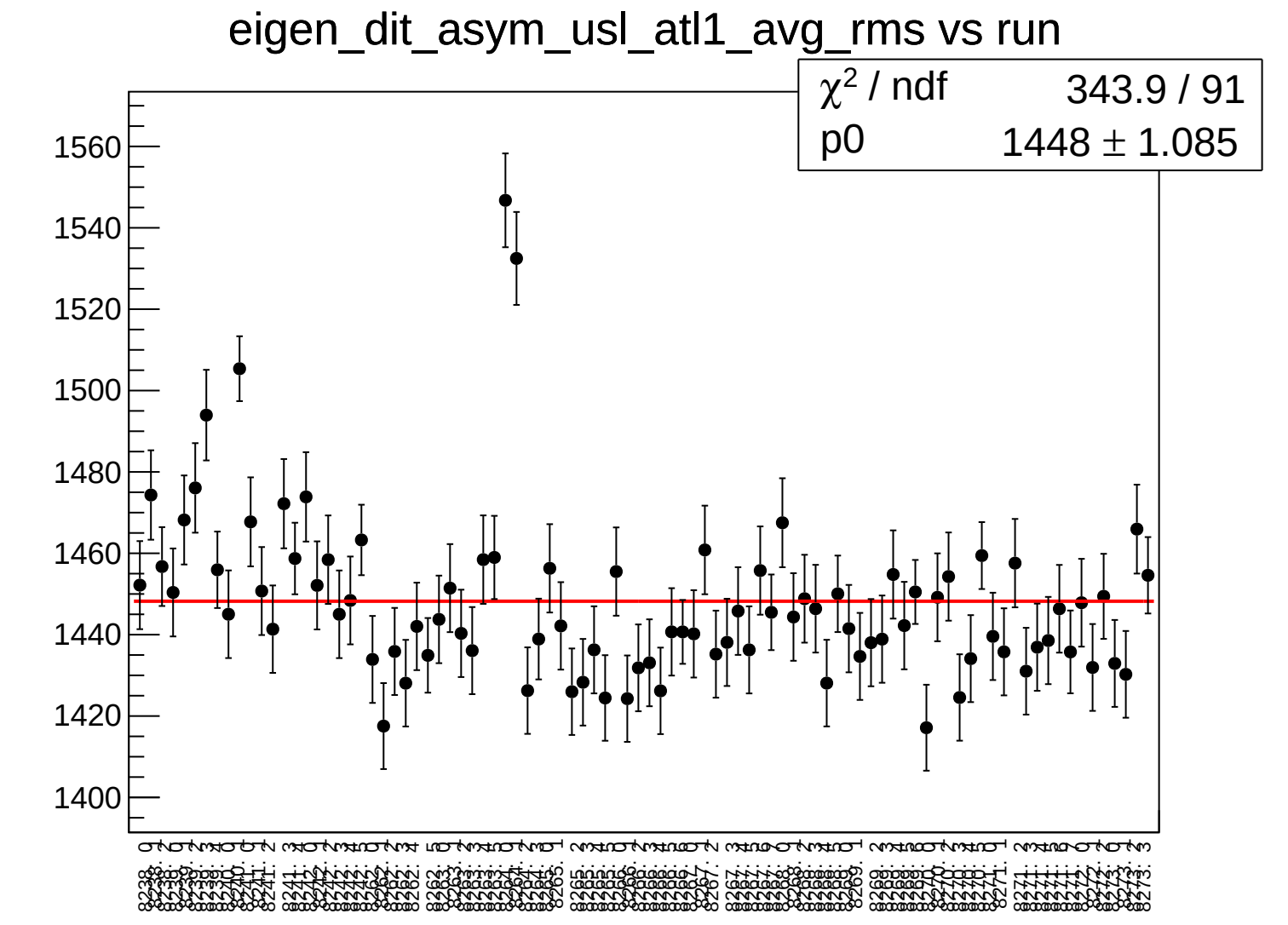

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 72.09 / 91
p0 1169 ± 732
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −613.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

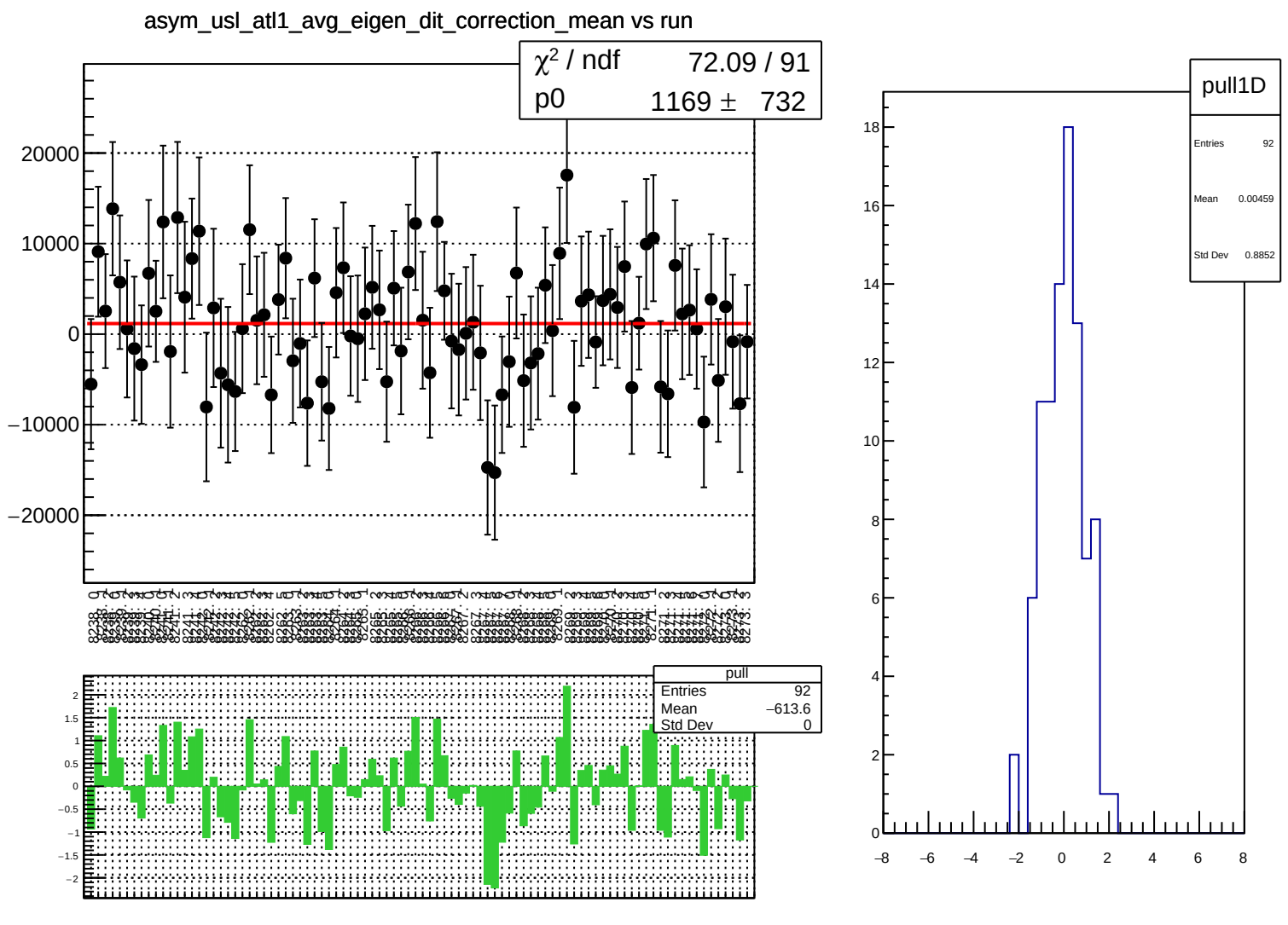

pull1D
Entries 92
Mean 0.00459
Std Dev 0.8852
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

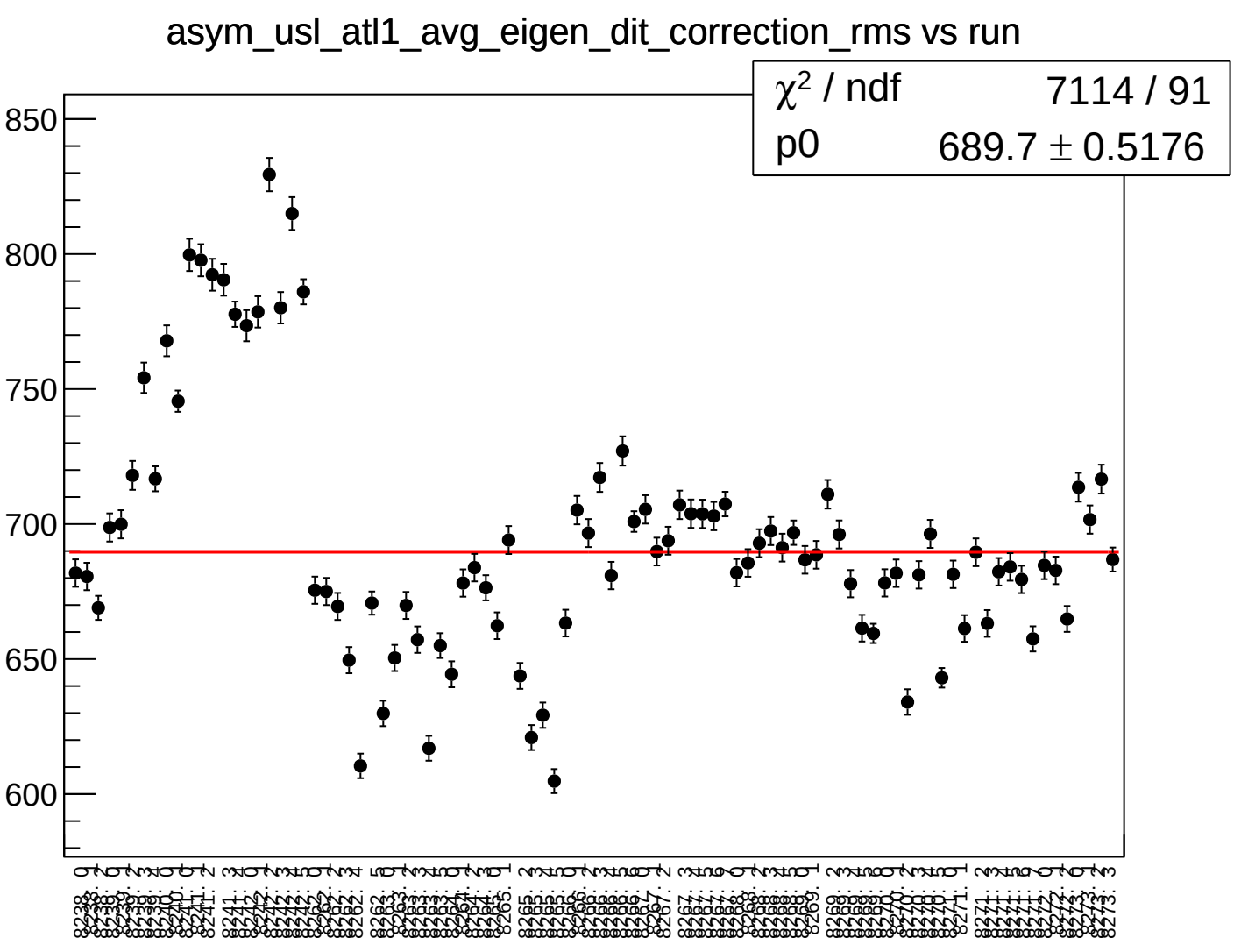

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 7114 / 91
p0 689.7 ± 0.5176
850
800
750
700
650
600

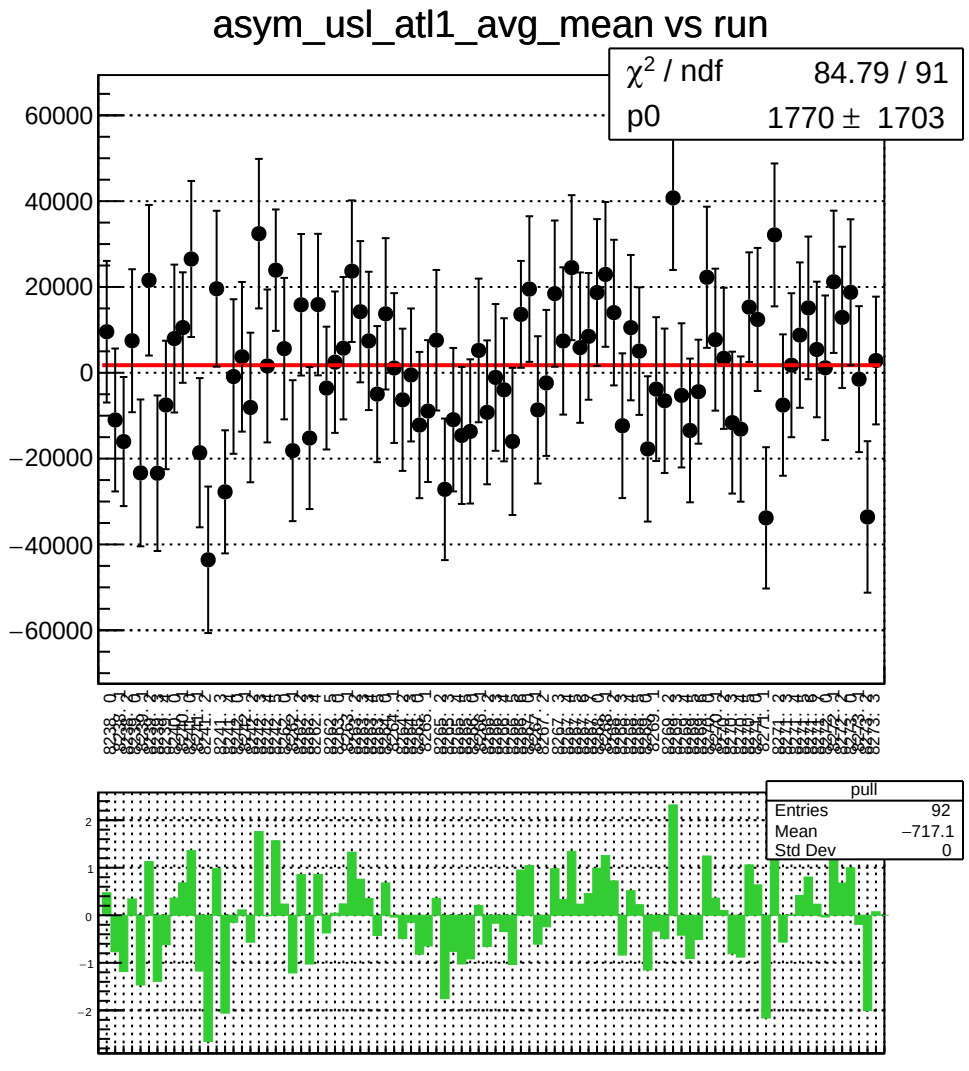

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 98.78 / 91
p0 3024 ± 1534
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −318.1
Std Dev 0
2
1
0
−1
−2
−3

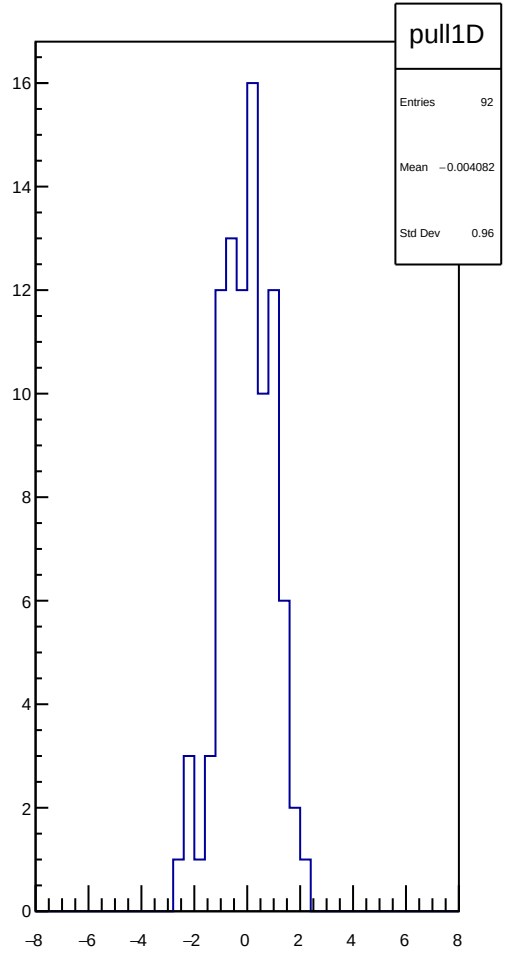

pull1D
Entries 92
Mean −0.005167
Std Dev 1.036
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

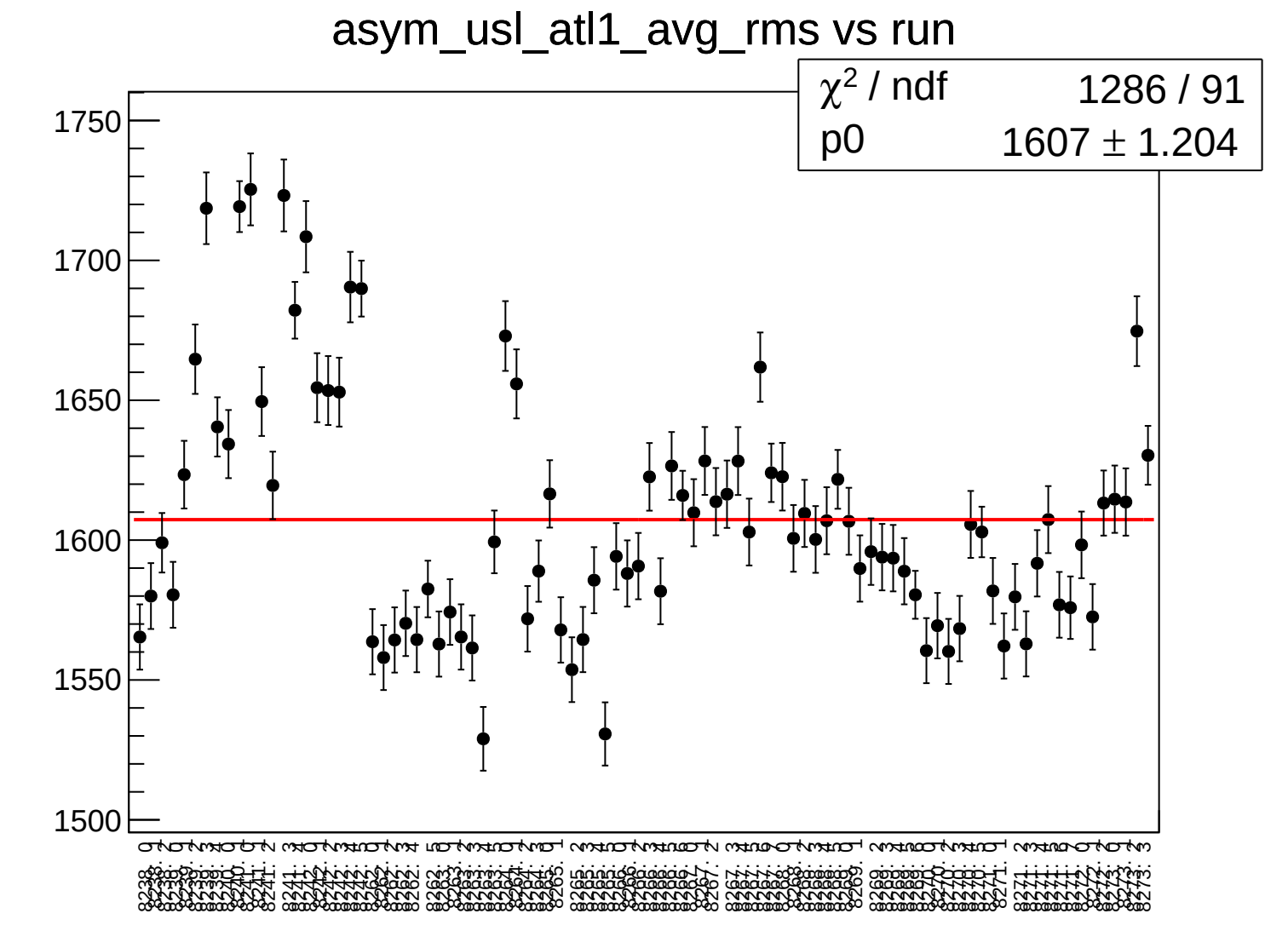

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 343.9 / 91
p0 1448 ± 1.085
1560
1540
1520
1500
1480
1460
1440
1420
1400

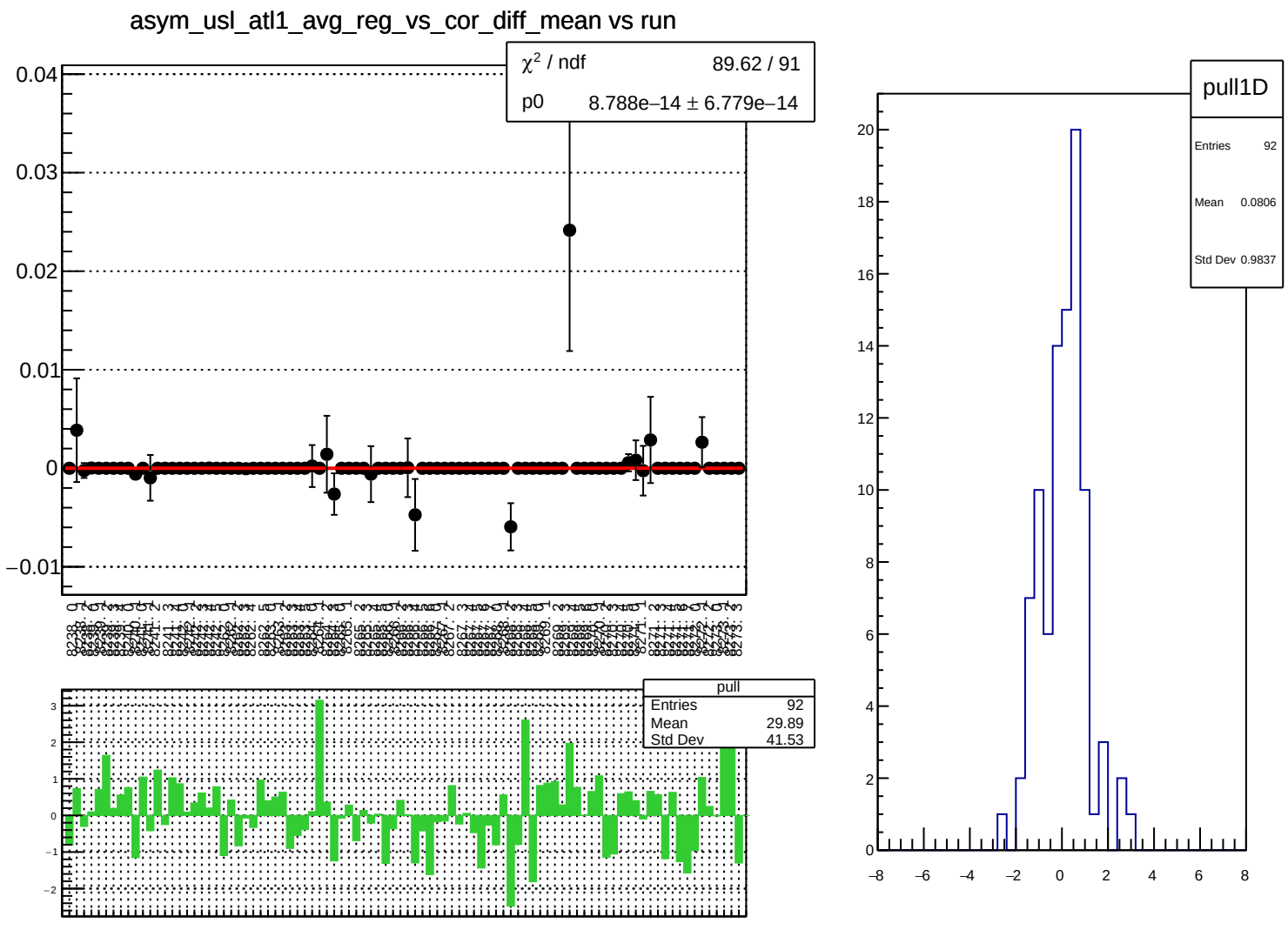

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.09 / 91
p0 1169 ± 732
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −613.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.00459
Std Dev 0.8852
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

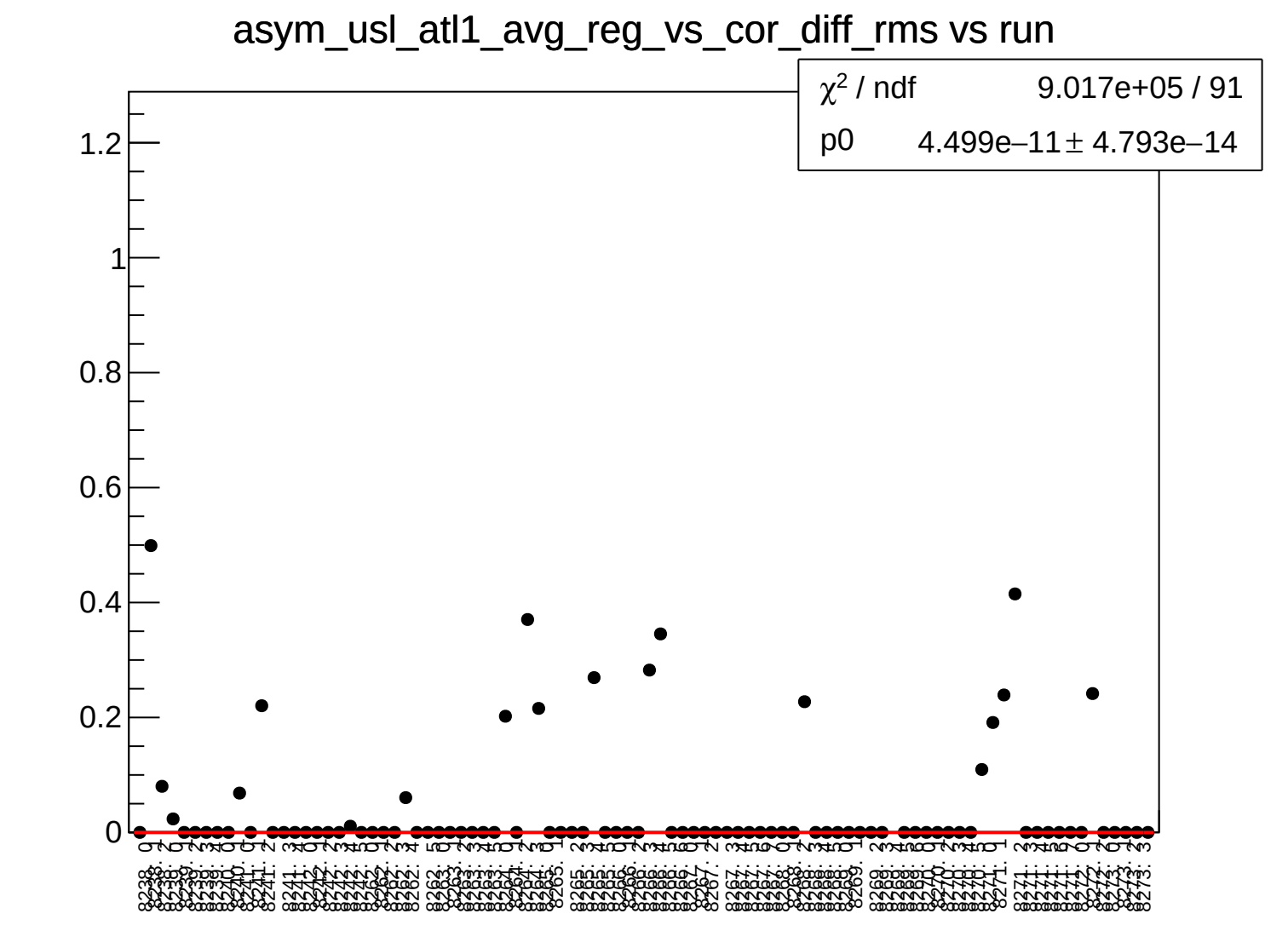

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 7114 / 91
p0 689.7 ± 0.5176
850
800
750
700
650
600

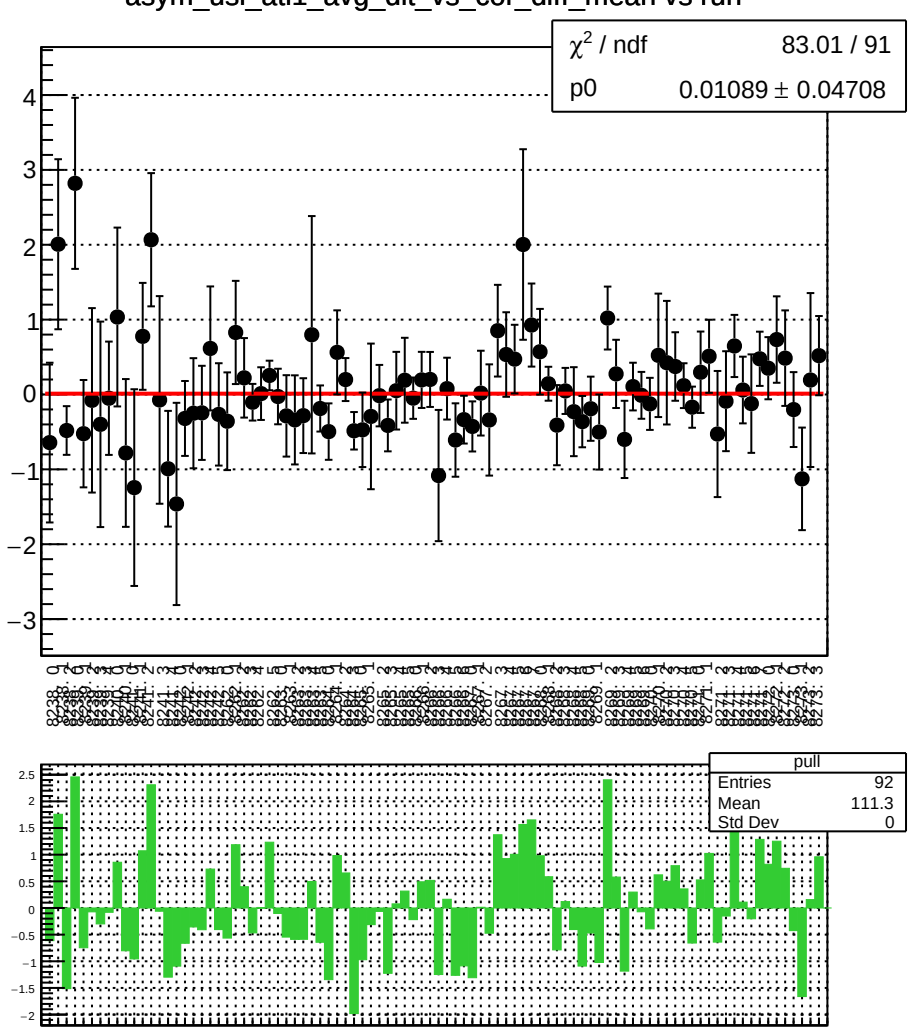

asym_usl_atl1_avg_mean vs run
χ² / ndf 84.79 / 91
p0 1770 ± 1703
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −717.1
Std Dev 0
2
1
0
−1
−2

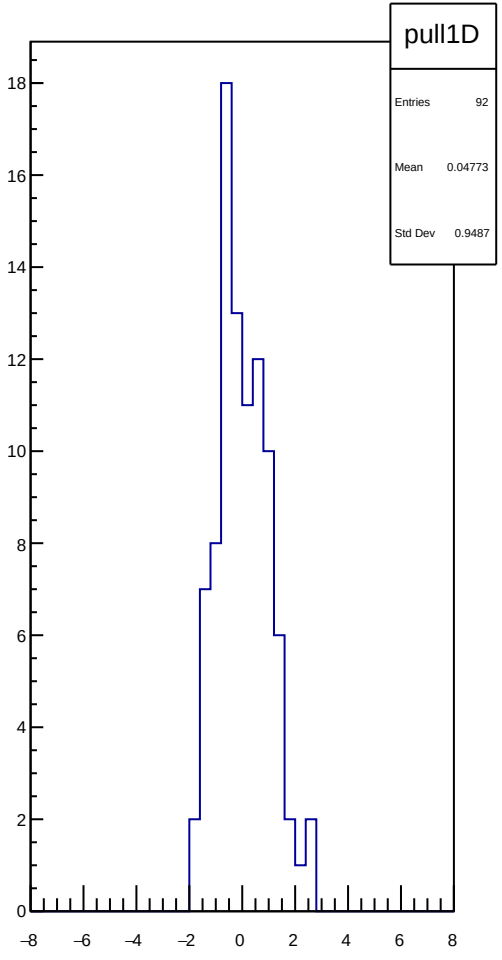

pull1D
Entries 92
Mean −0.004082
Std Dev 0.96
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

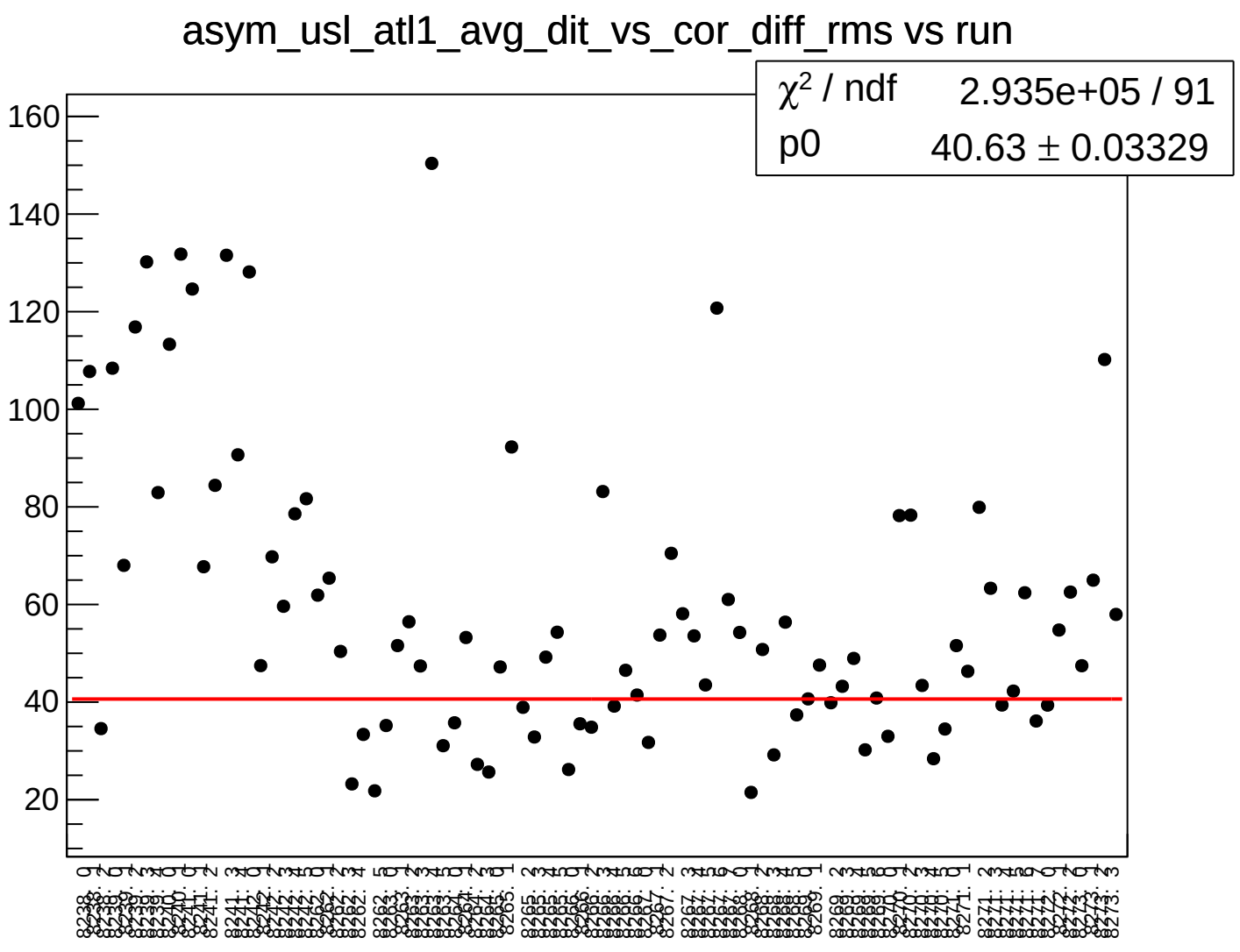

asym_usl_atl1_avg_rms vs run
χ² / ndf 1286 / 91
p0 1607 ± 1.204
1750
1700
1650
1600
1550
1500

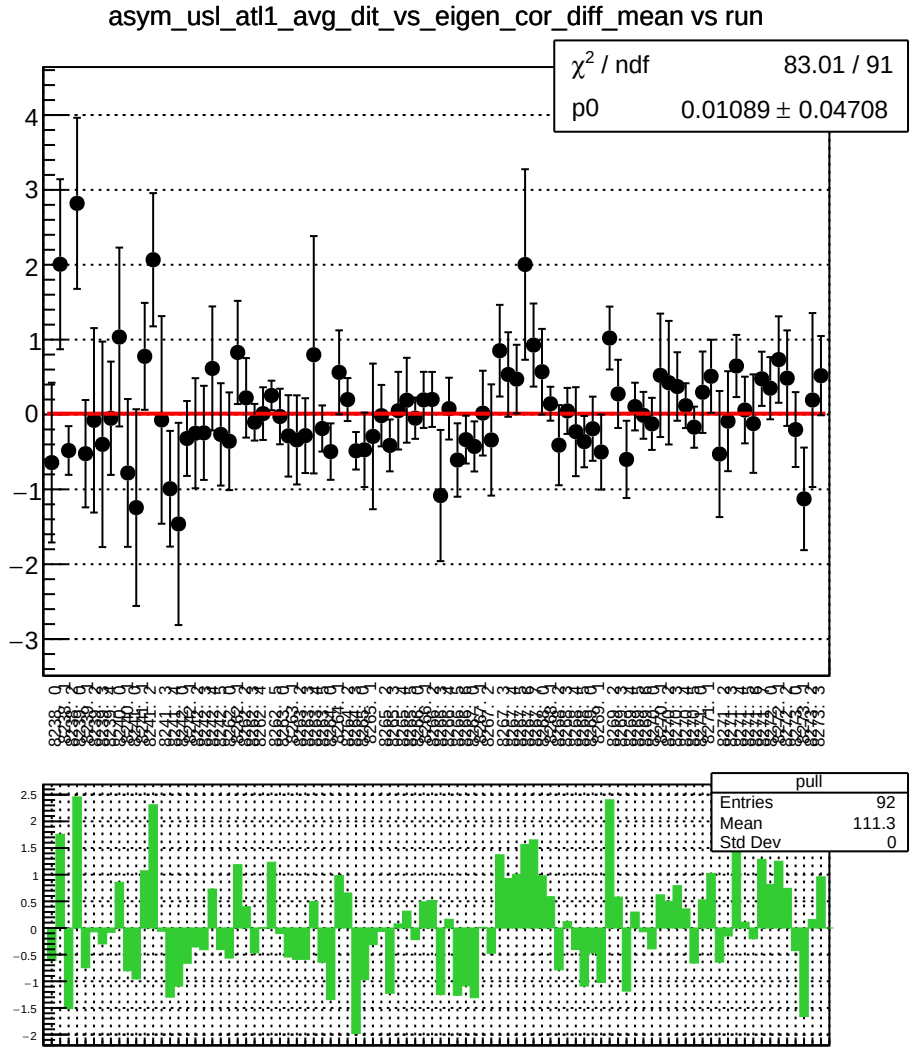

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.62 / 91
p0 8.788e−14 ± 6.779e−14
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 92
Mean 29.89
Std Dev 41.53
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0806
Std Dev 0.9837
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

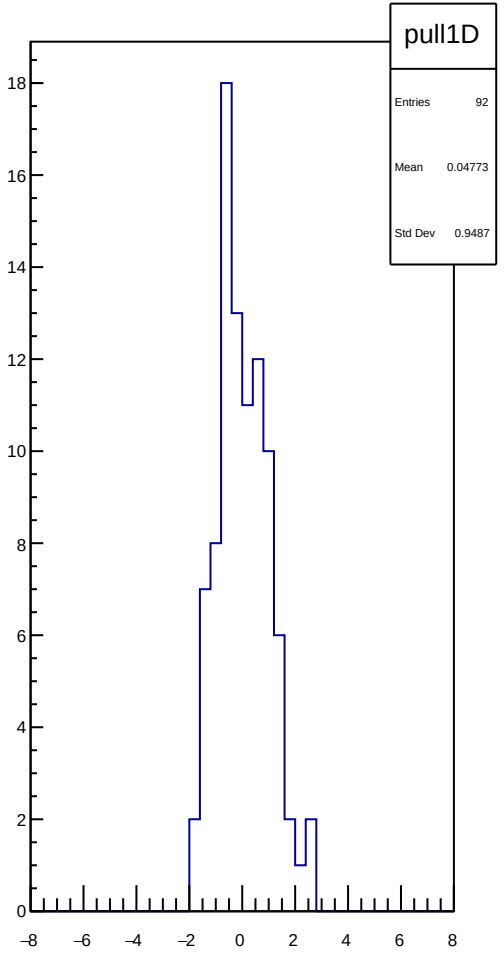

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.017e+05 / 91
p0 4.499e−11 ± 4.793e−14
1.2
1
0.8
0.6
0.4
0.2
0

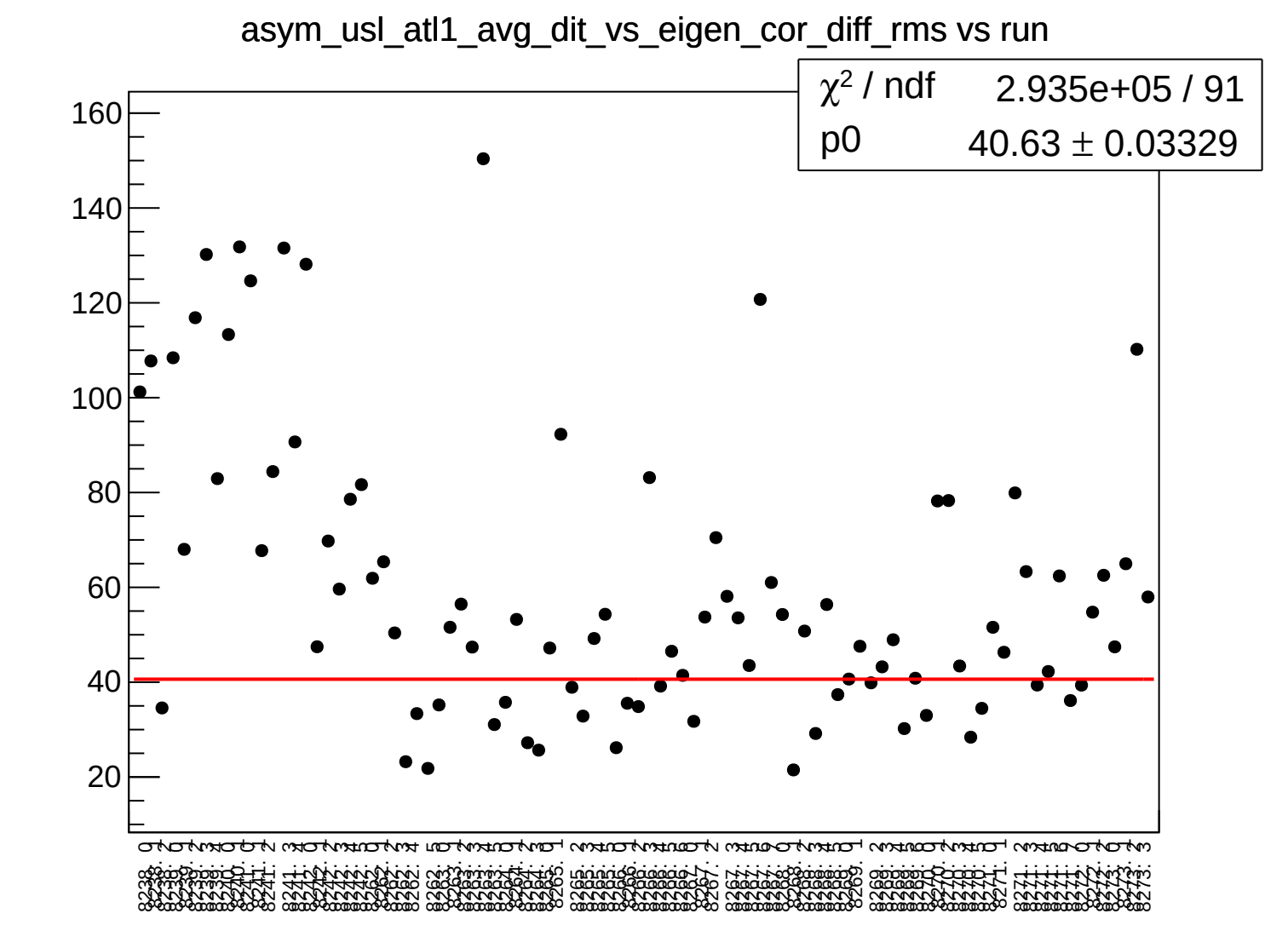

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.01 / 91
p0 0.01089 ± 0.04708
pull
Entries 92
Mean 111.3
Std Dev 0

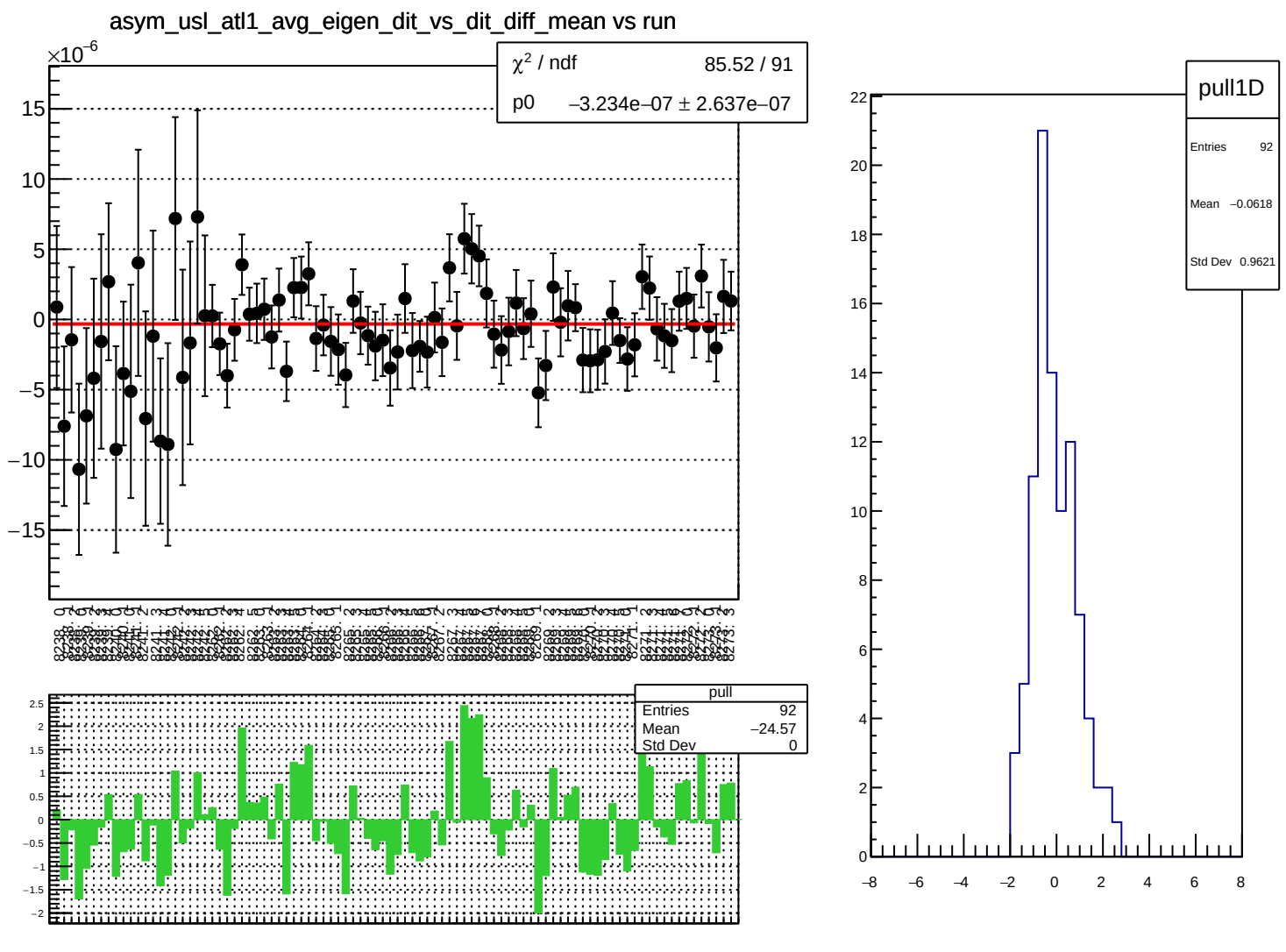

pull1D
Entries 92
Mean 0.04773
Std Dev 0.9487

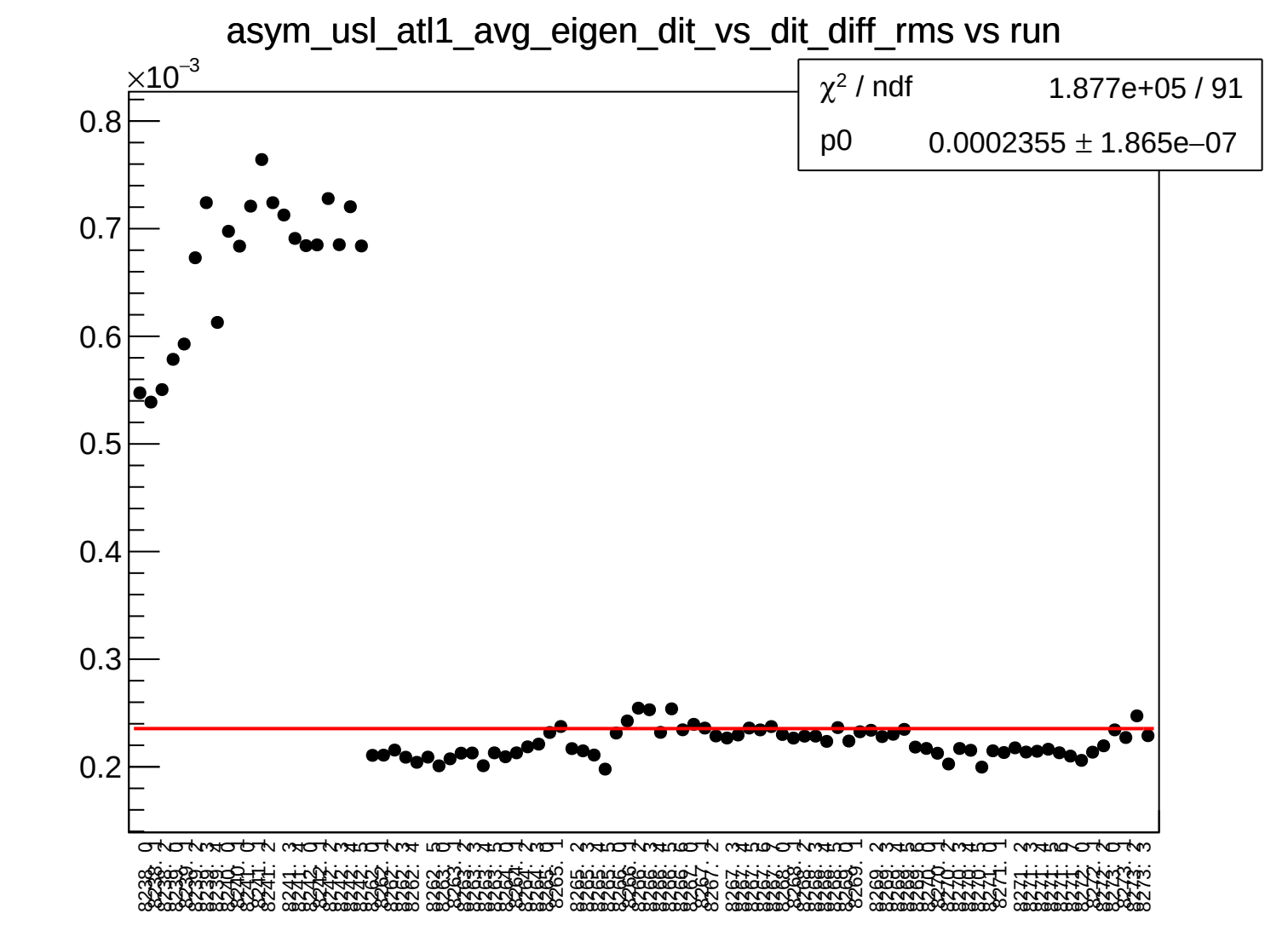

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.935e+05 / 91
p0 40.63 ± 0.03329
160
140
120
100
80
60
40
20

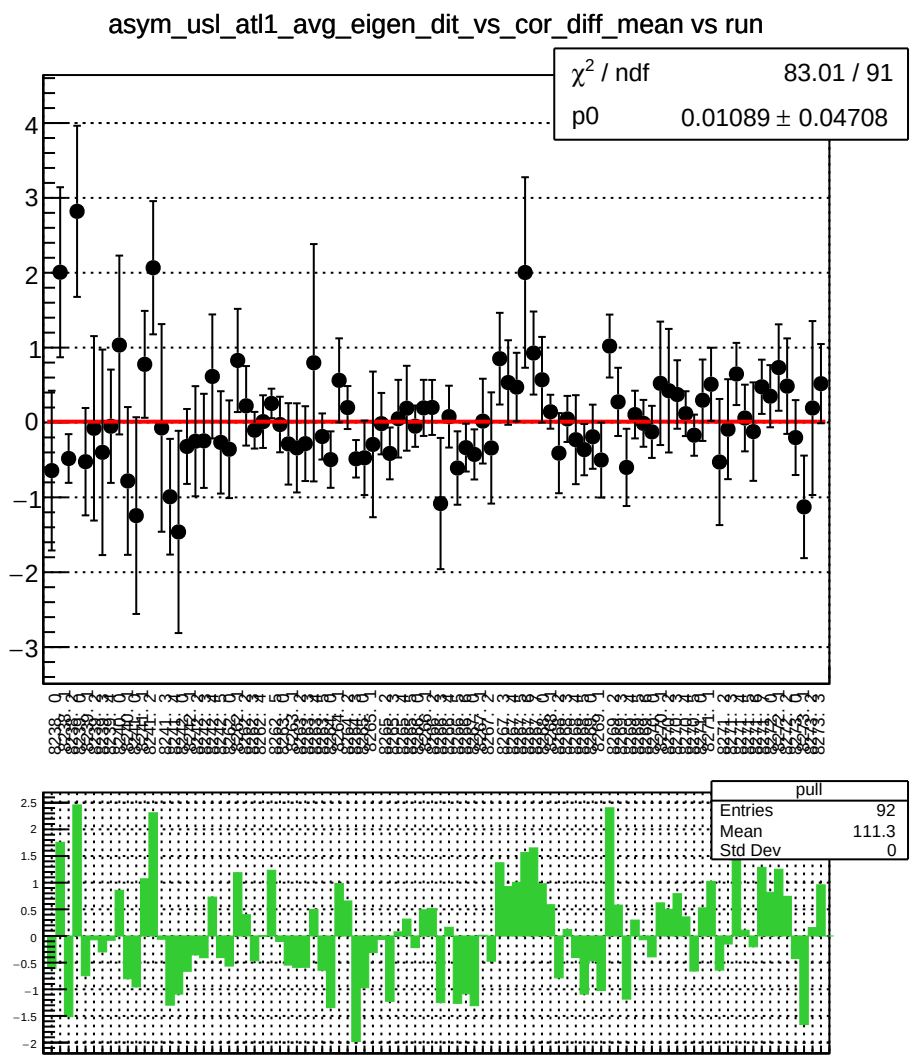

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.01 / 91
p0 0.01089 ± 0.04708
pull
Entries 92
Mean 111.3
Std Dev 0

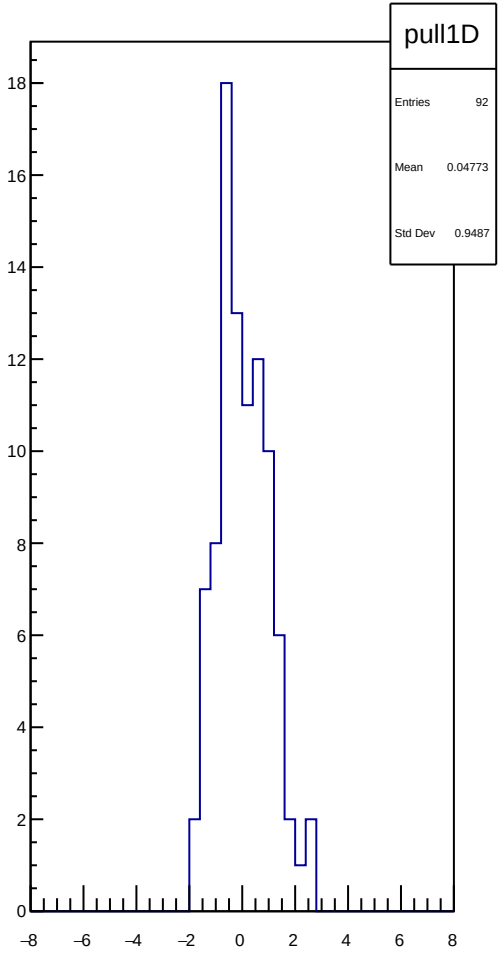

pull1D
Entries 92
Mean 0.04773
Std Dev 0.9487

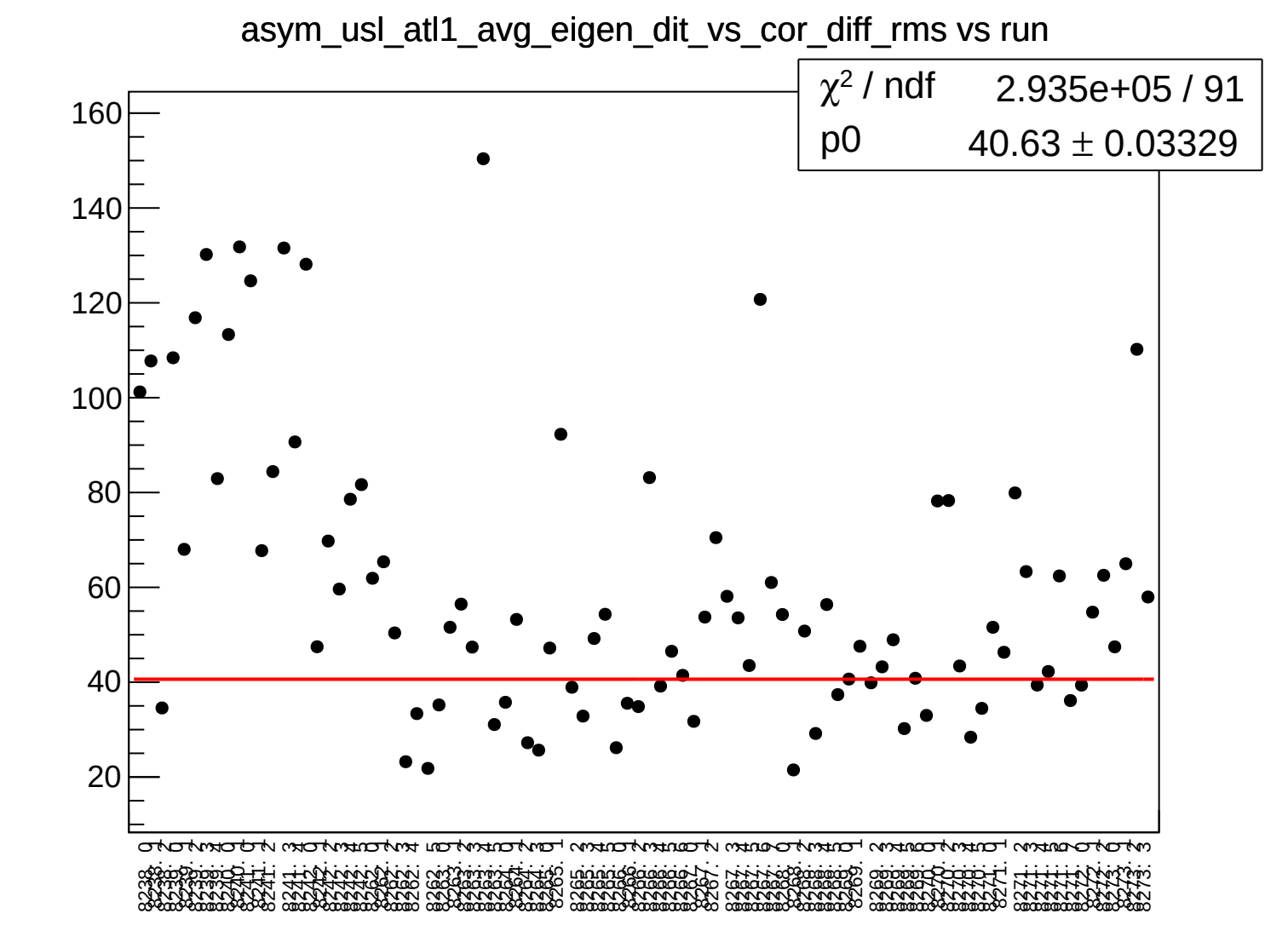

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.935e+05 / 91
p0 40.63 ± 0.03329
160
140
120
100
80
60
40
20

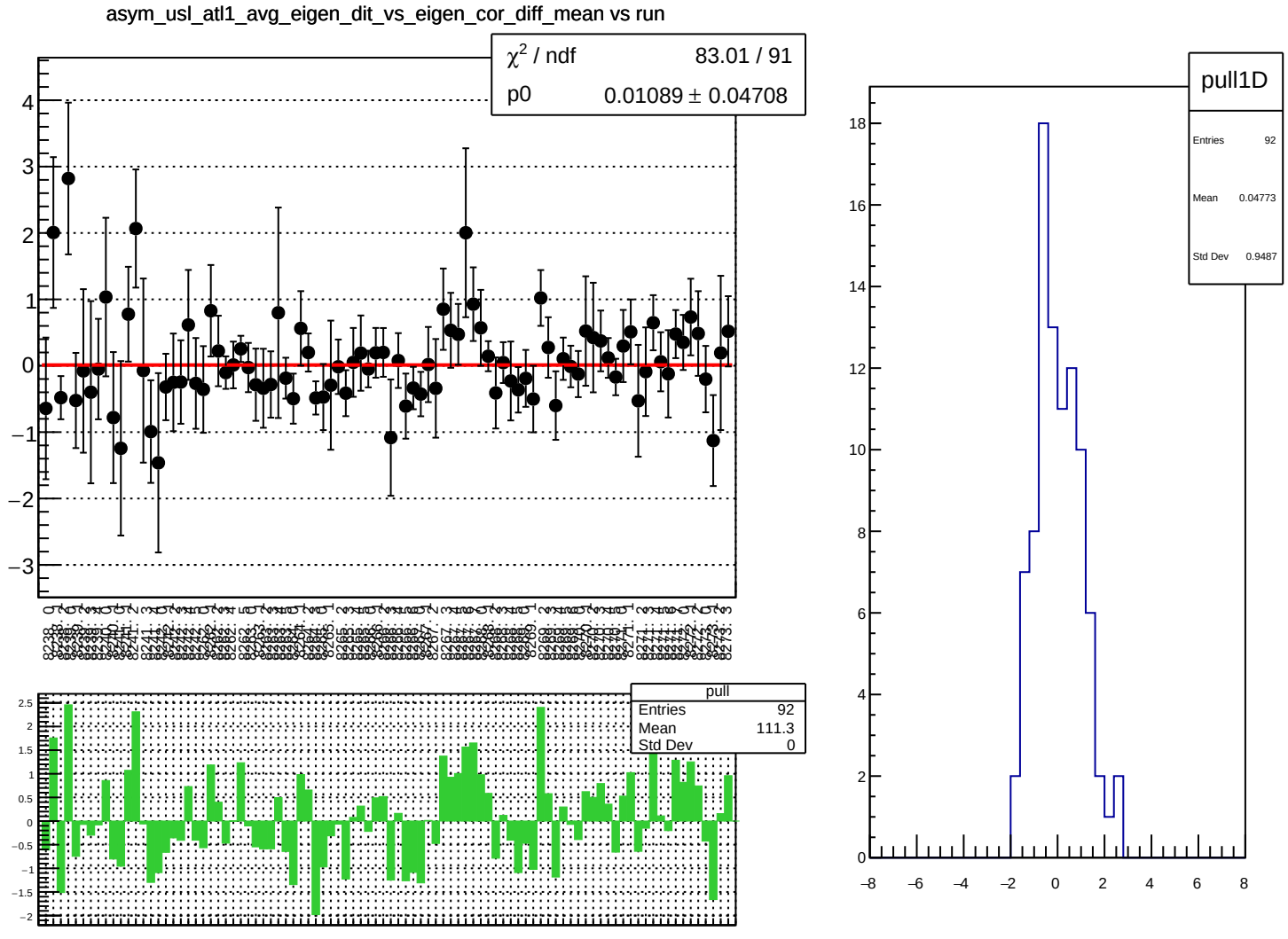

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 85.52 / 91
p0 −3.234e−07 ± 2.637e−07
pull
Entries 92
Mean −24.57
Std Dev 0
pull1D
Entries 92
Mean −0.0618
Std Dev 0.9621

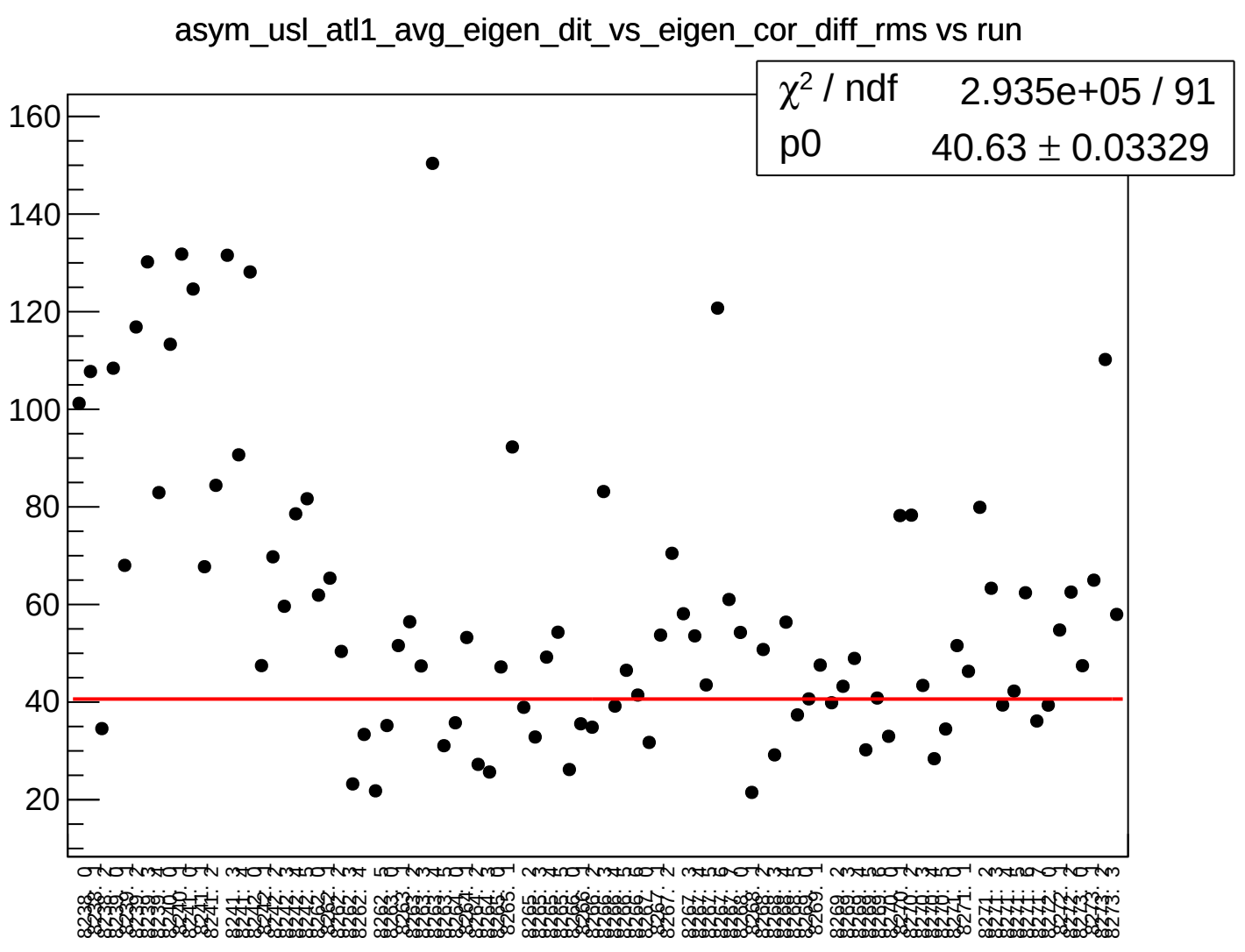

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1.877e+05 / 91
p0 0.0002355 ± 1.865e−07
0.8
0.7
0.6
0.5
0.4
0.3
0.2

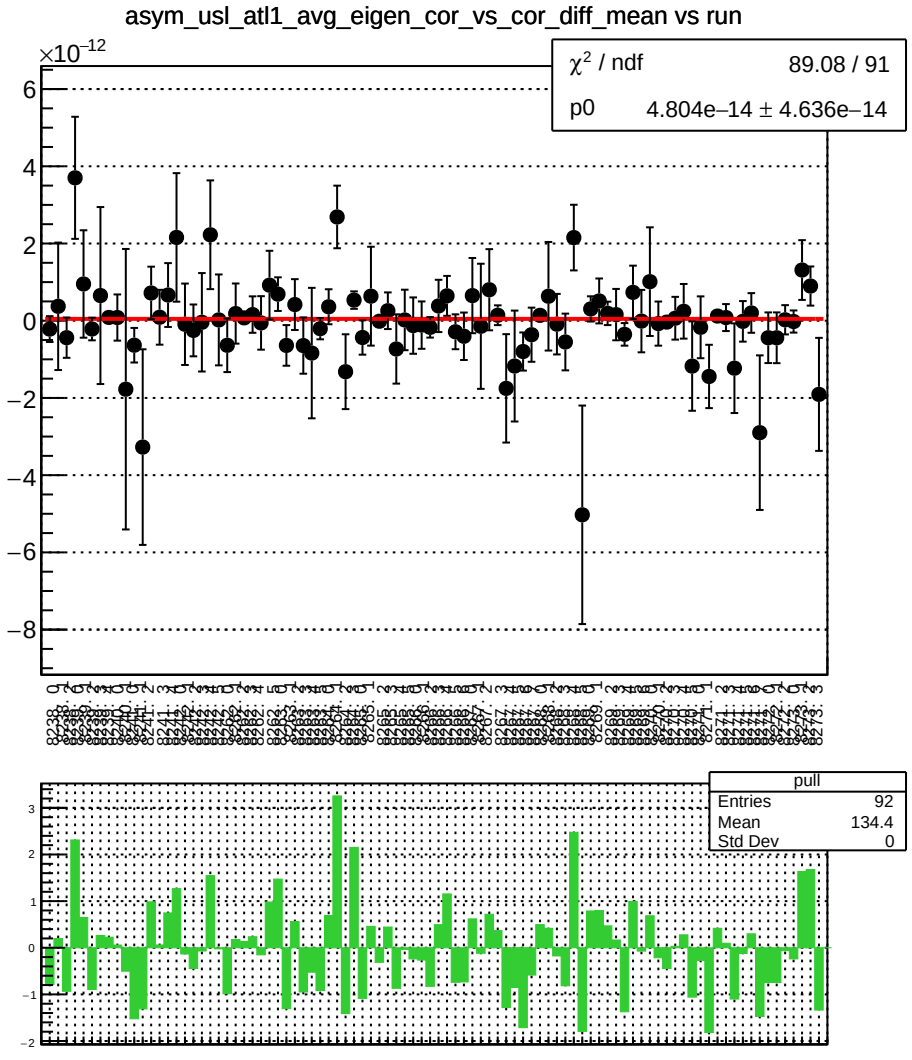

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.01 / 91
p0 0.01089 ± 0.04708
pull
Entries 92
Mean 111.3
Std Dev 0

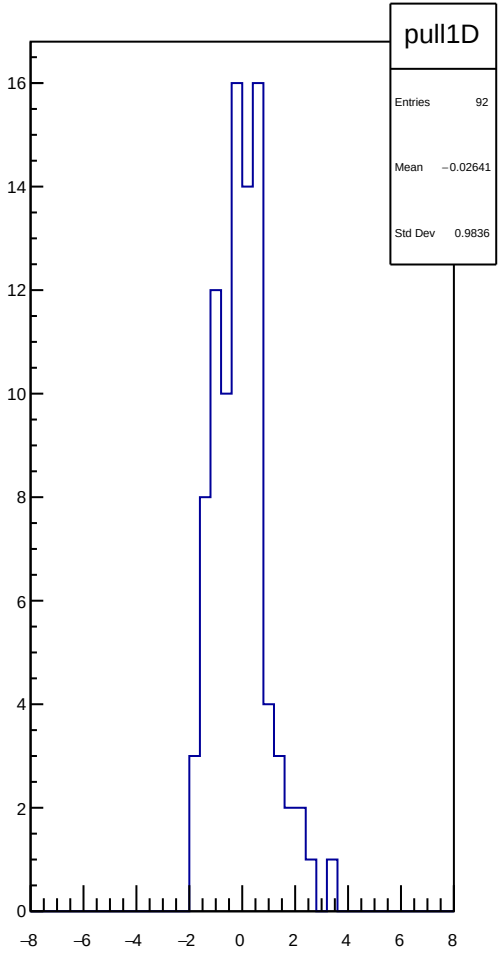

pull1D
Entries 92
Mean 0.04773
Std Dev 0.9487

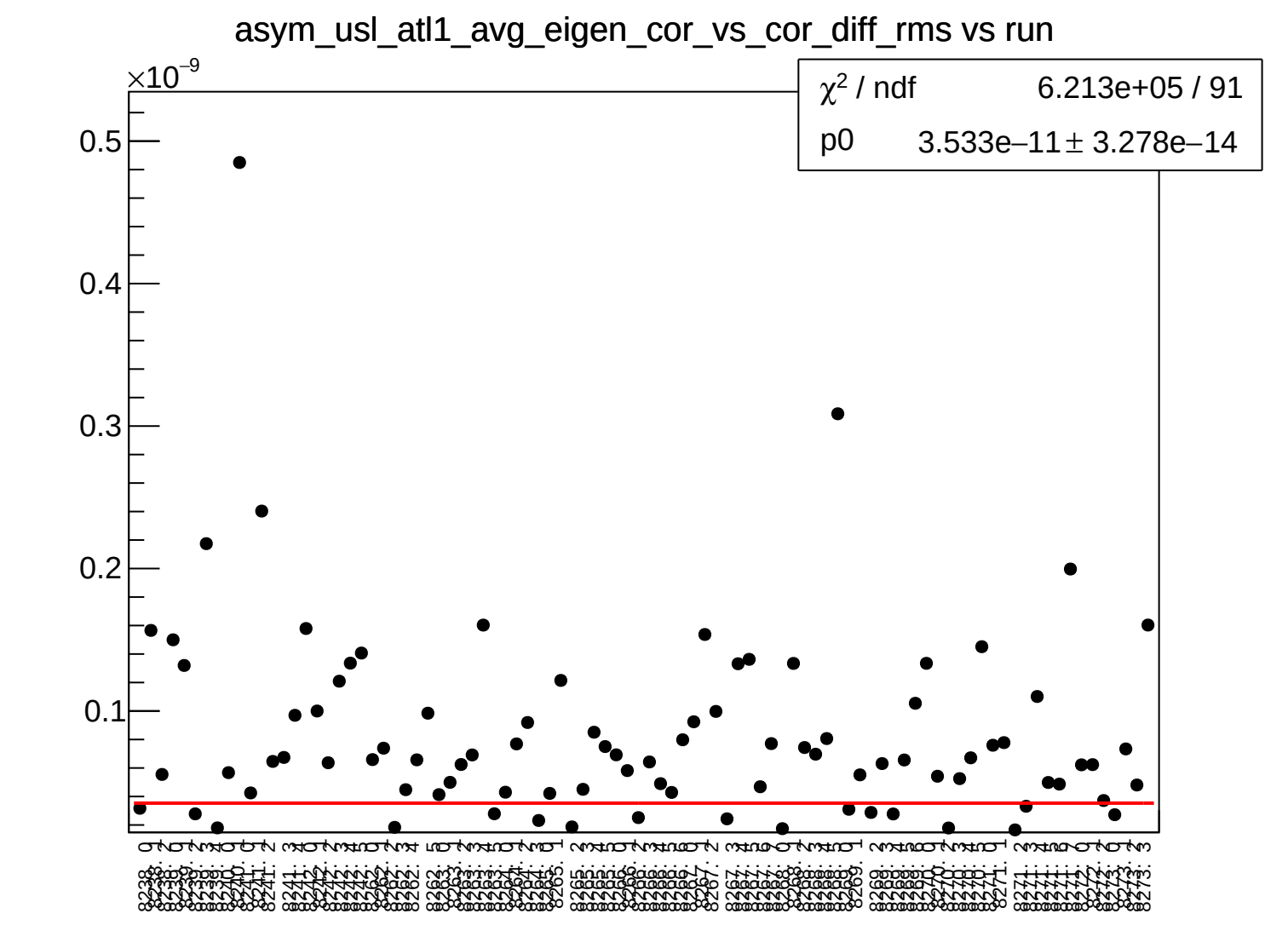

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.935e+05 / 91
p0 40.63 ± 0.03329
160
140
120
100
80
60
40
20

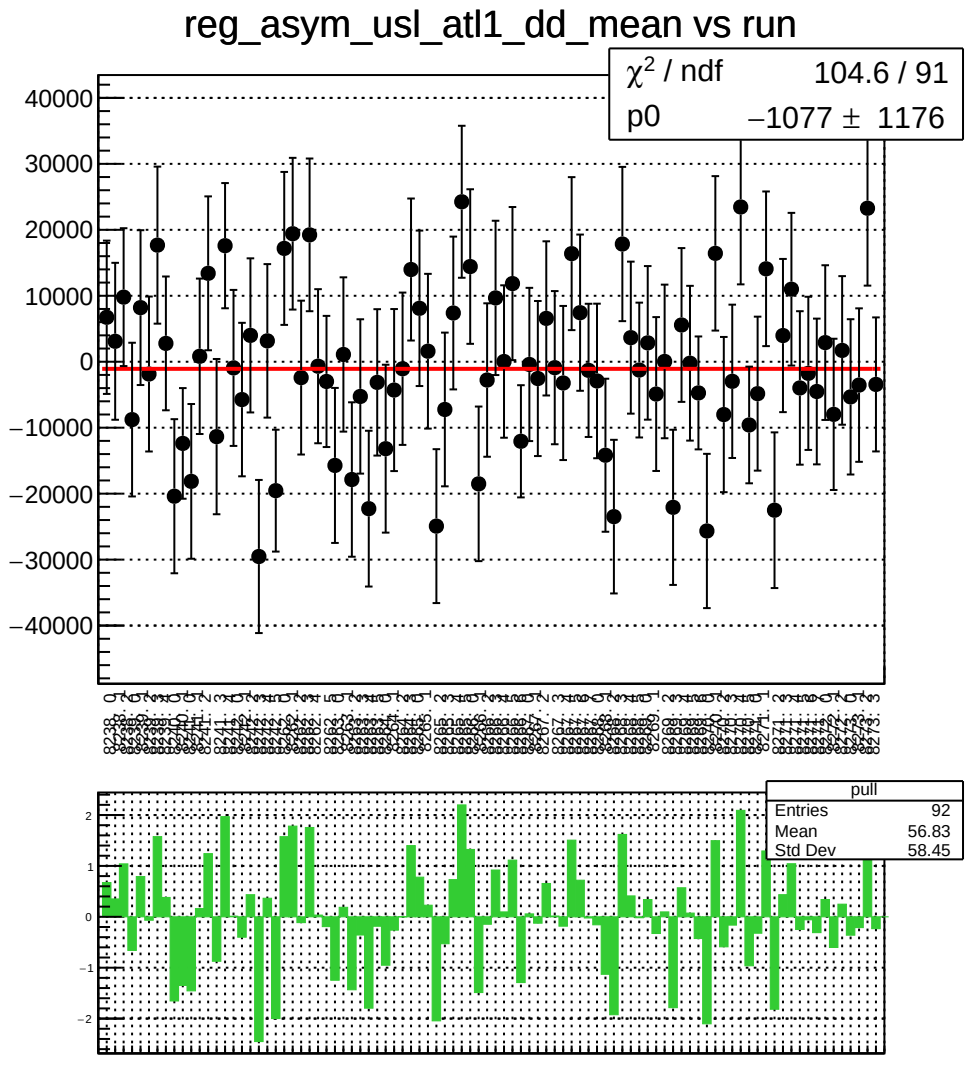

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.01 / 91
p0 0.01089 ± 0.04708
pull
Entries 92
Mean 111.3
Std Dev 0
pull1D
Entries 92
Mean 0.04773
Std Dev 0.9487

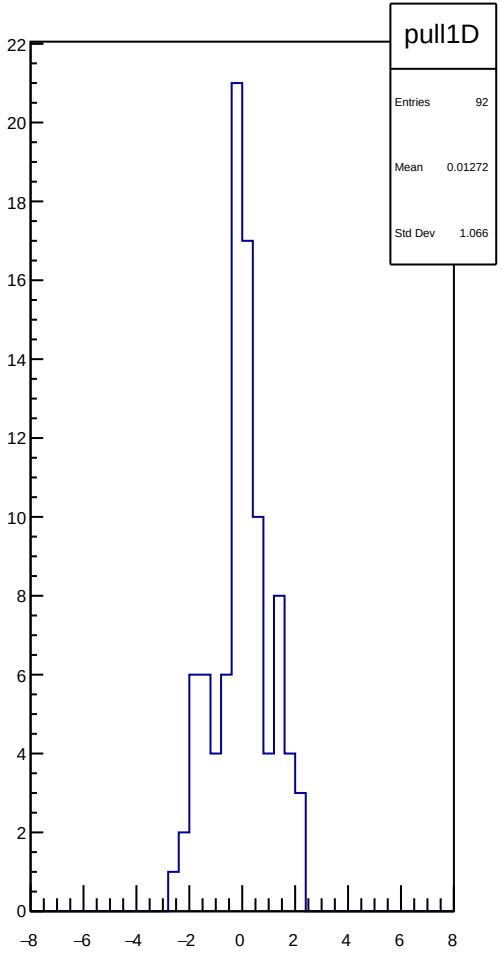

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.935e+05 / 91
p0 40.63 ± 0.03329
160
140
120
100
80
60
40
20

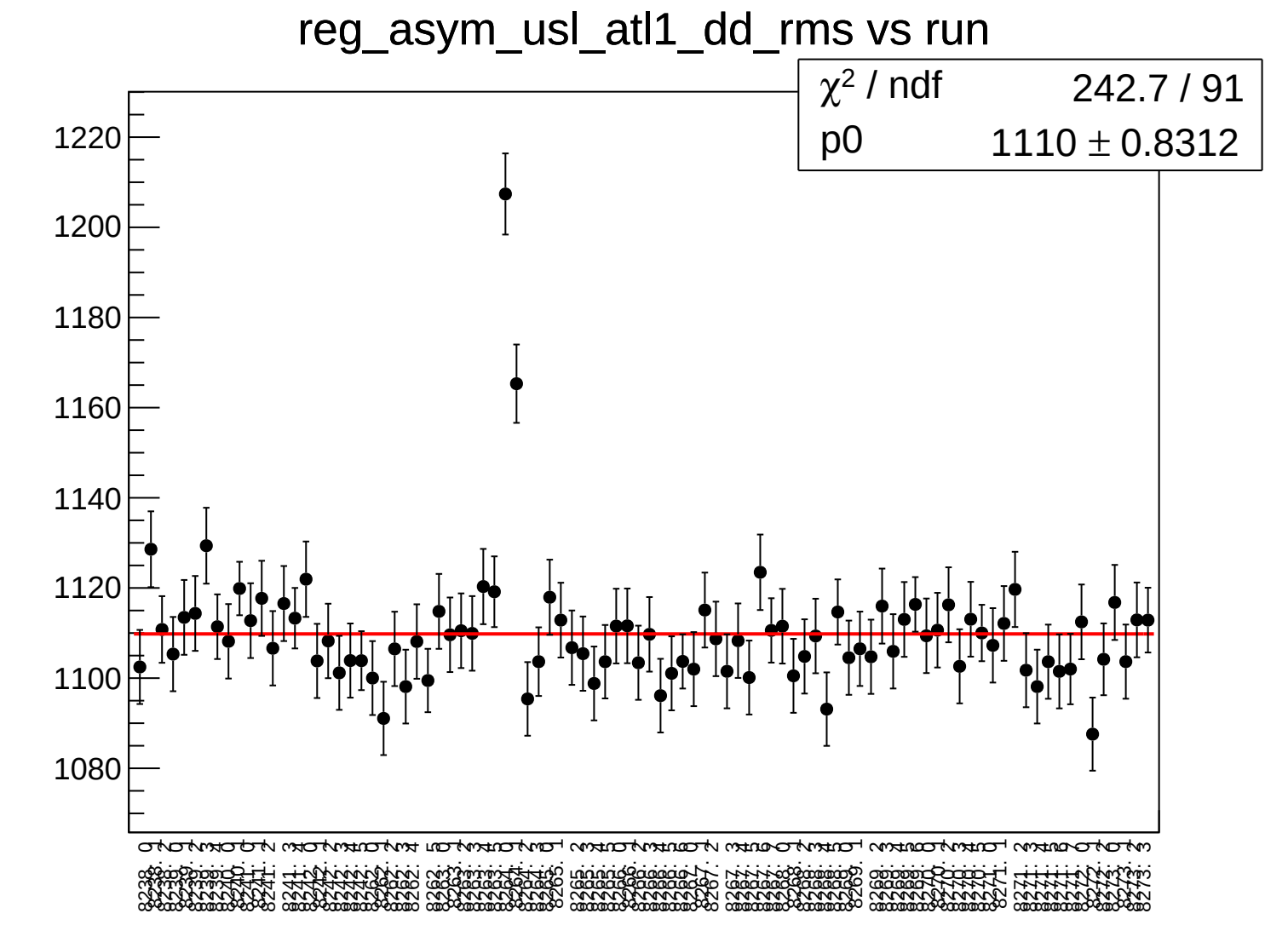

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.08 / 91
p0 4.804e−14 ± 4.636e−14
pull
Entries 92
Mean 134.4
Std Dev 0

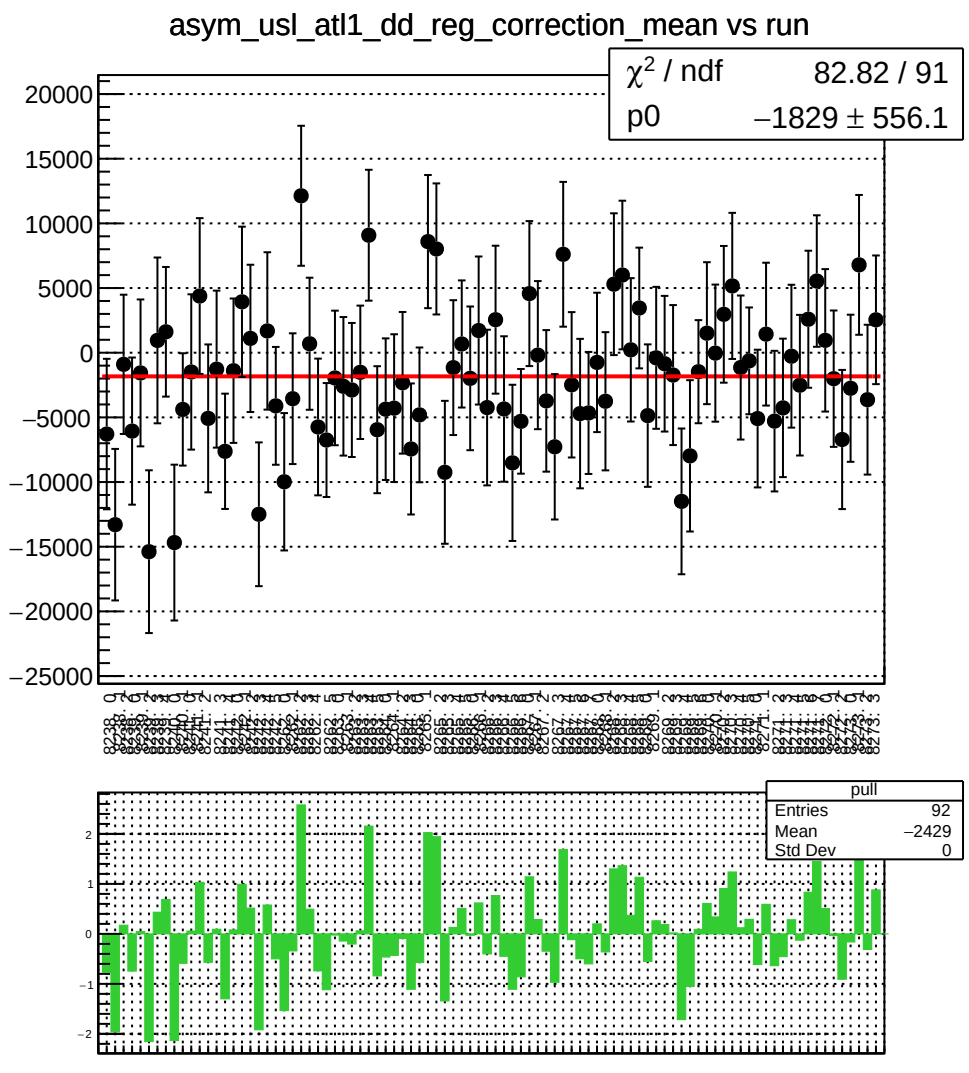

pull1D
Entries 92
Mean −0.02641
Std Dev 0.9836

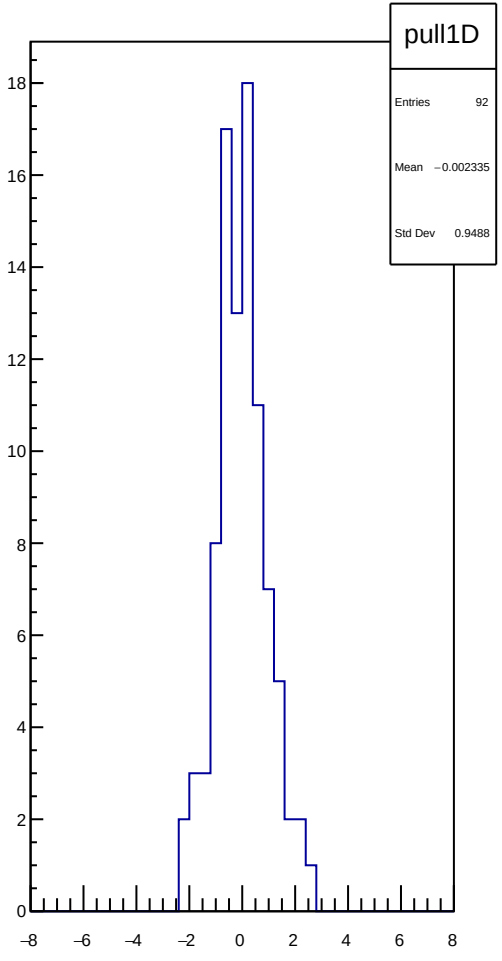

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.213e+05 / 91
p0 3.533e−11 ± 3.278e−14
0.5
0.4
0.3
0.2
0.1

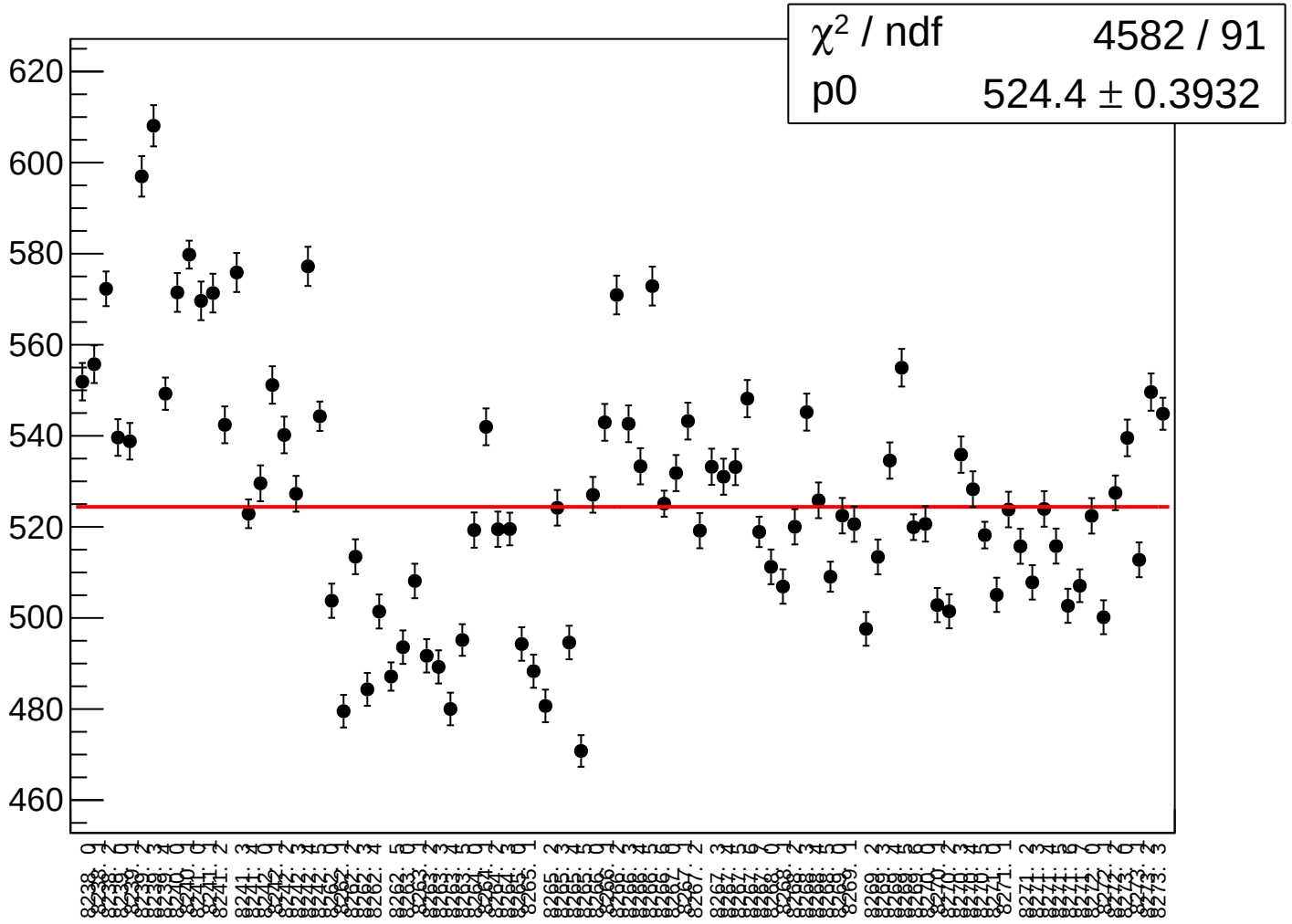

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 104.6 / 91
p0 −1077 ± 1176
pull
Entries 92
Mean 56.83
Std Dev 58.45

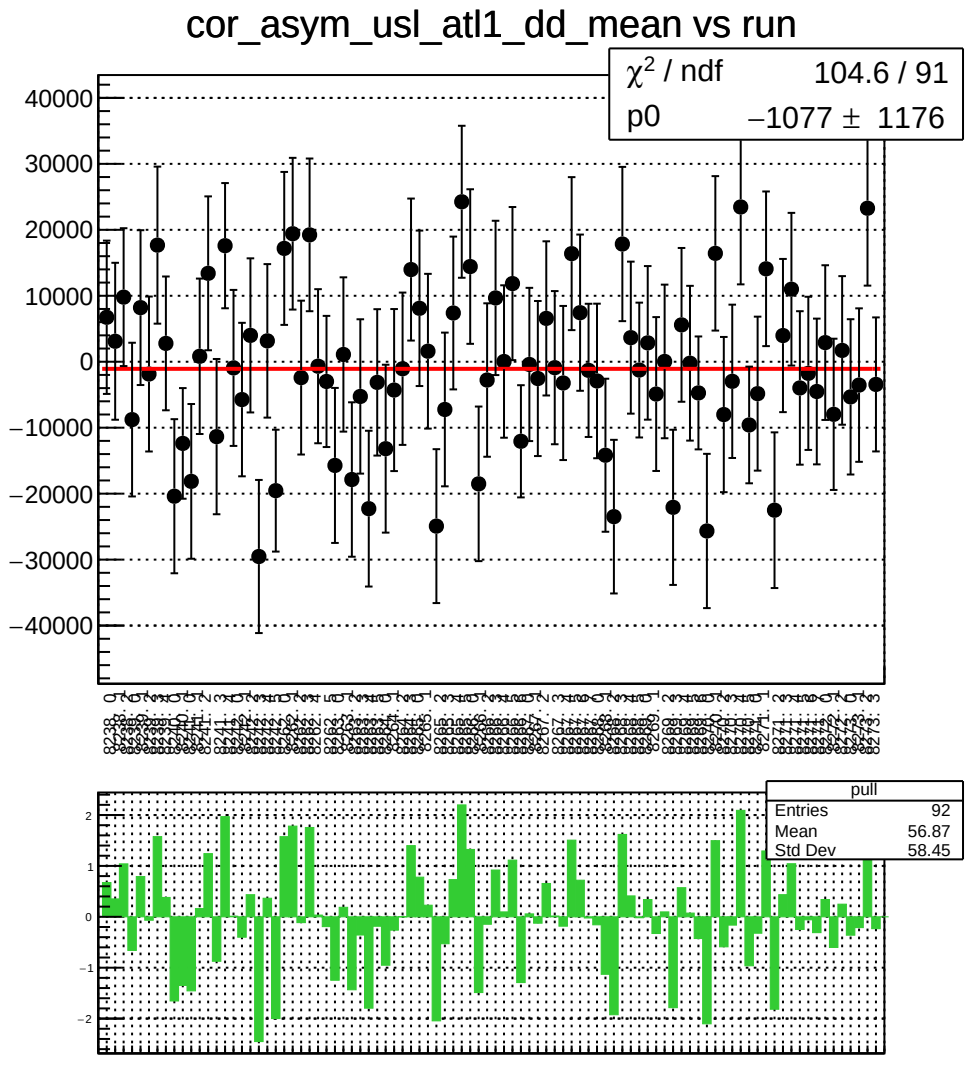

pull1D
Entries 92
Mean 0.01272
Std Dev 1.066

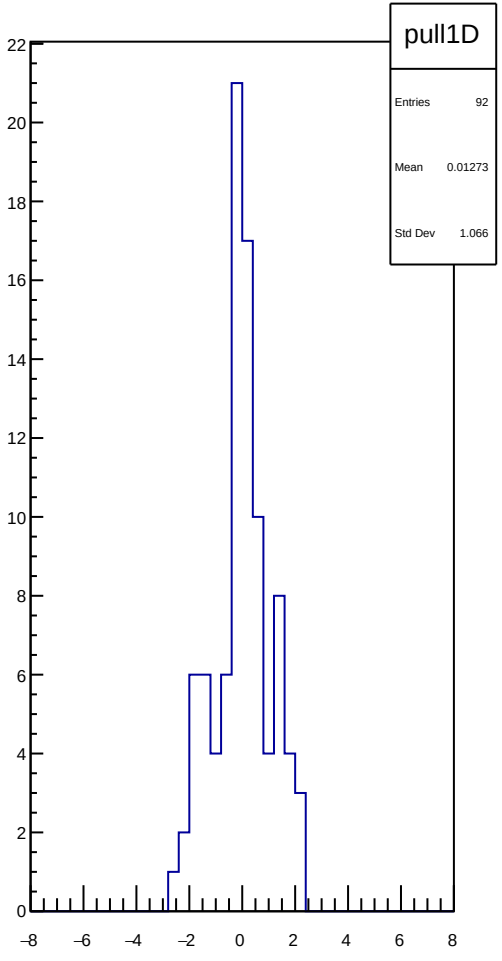

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 242.7 / 91
p0 1110 ± 0.8312
1220
1200
1180
1160
1140
1120
1100
1080

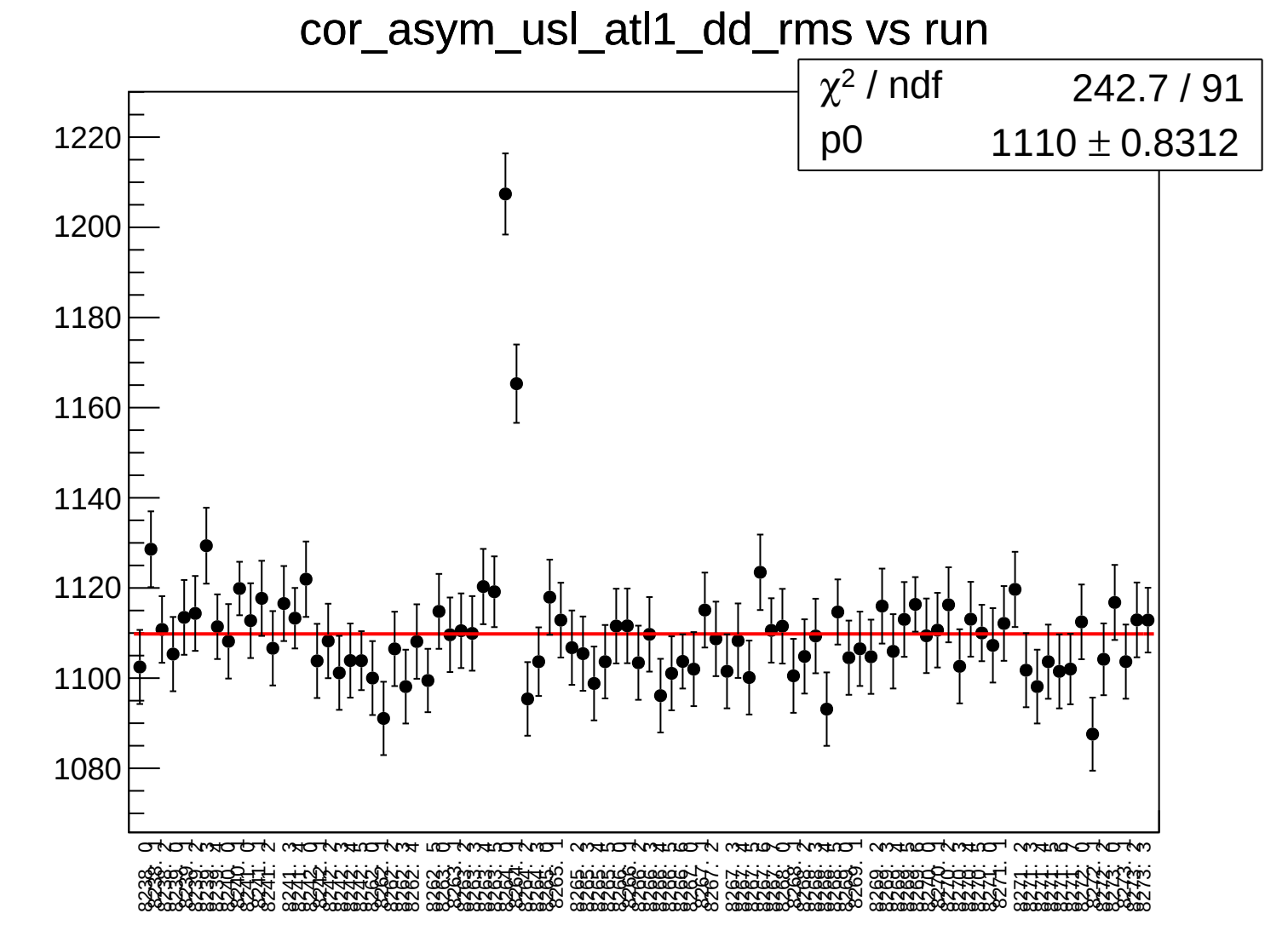

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 82.82 / 91
p0 −1829 ± 556.1
pull
Entries 92
Mean −2429
Std Dev 0

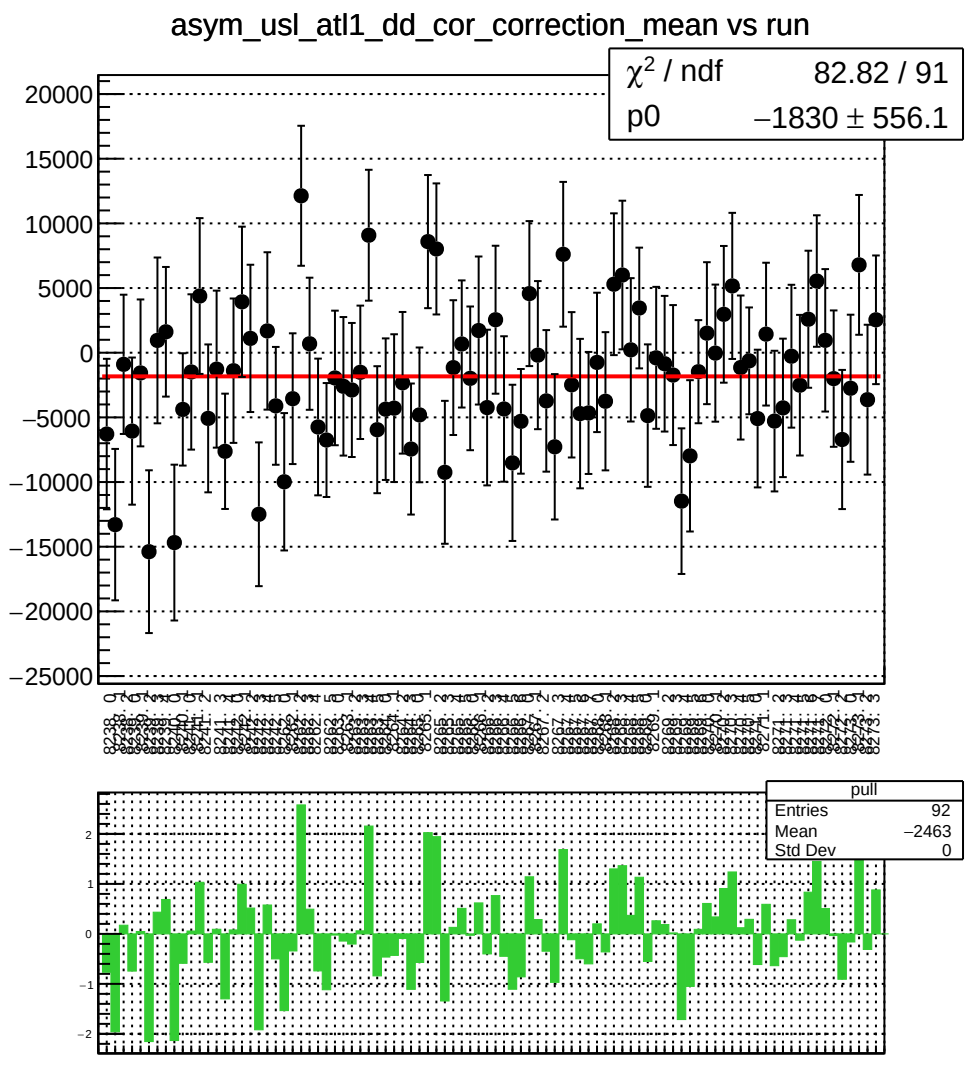

pull1D
Entries 92
Mean −0.002335
Std Dev 0.9488

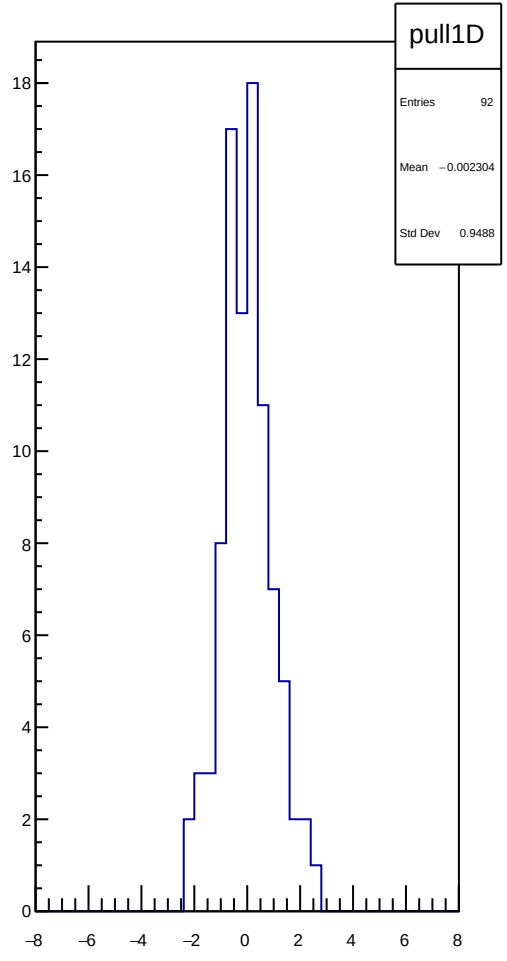

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 4582 / 91
p0 524.4 ± 0.3932
620
600
580
560
540
520
500
480
460

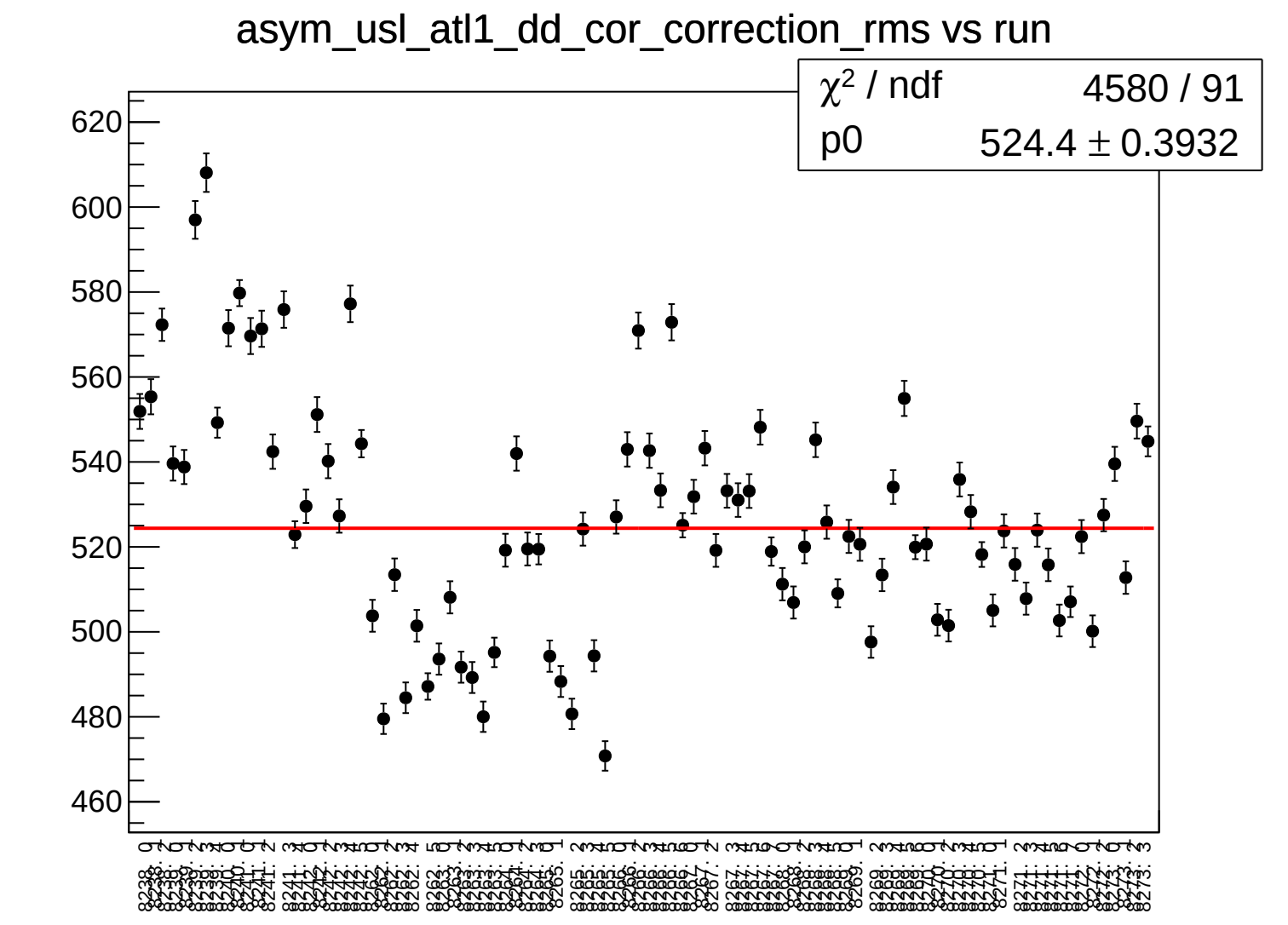

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 104.6 / 91
p0 −1077 ± 1176
pull
Entries 92
Mean 56.87
Std Dev 58.45

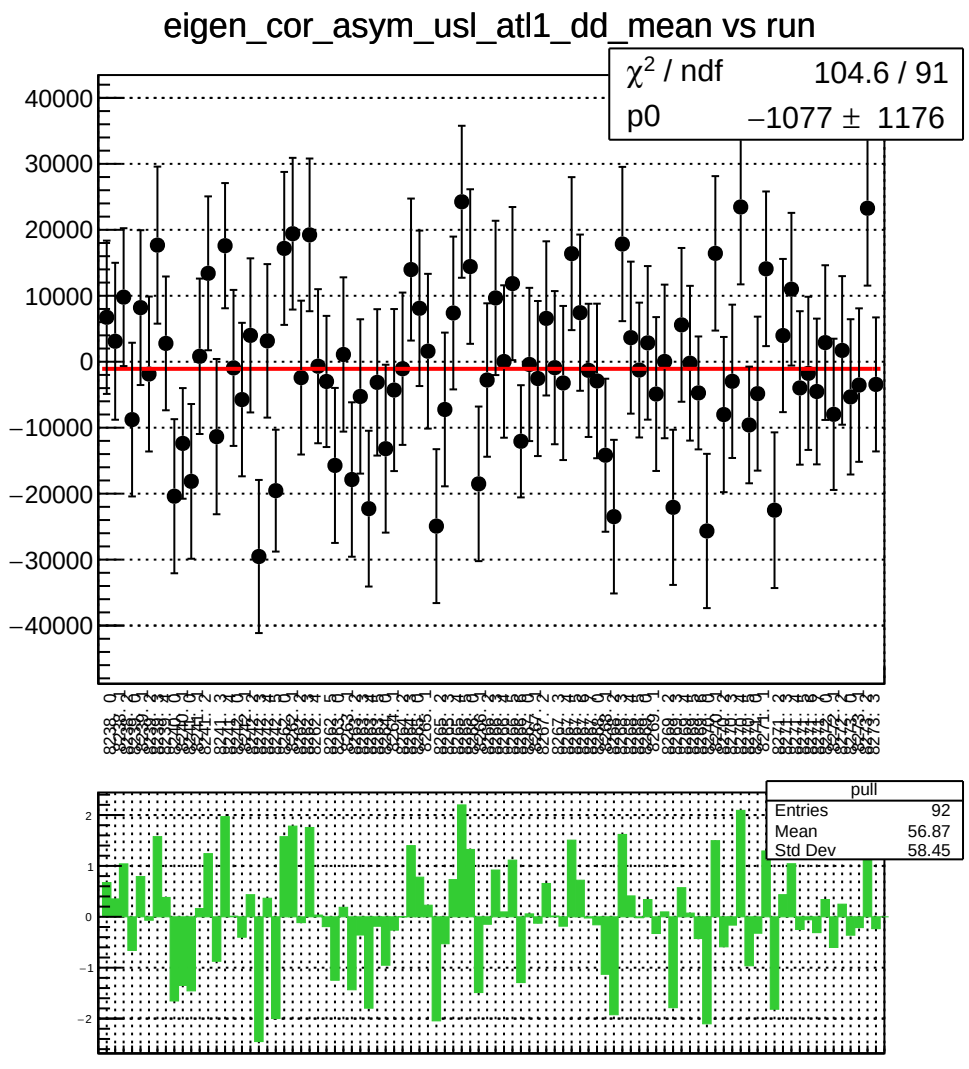

pull1D
Entries 92
Mean 0.01273
Std Dev 1.066

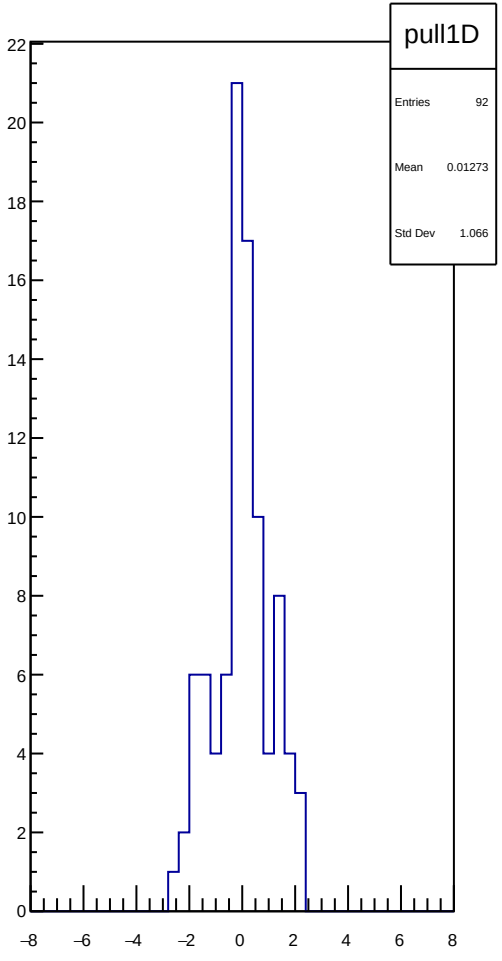

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 242.7 / 91
p0 1110 ± 0.8312
1220
1200
1180
1160
1140
1120
1100
1080

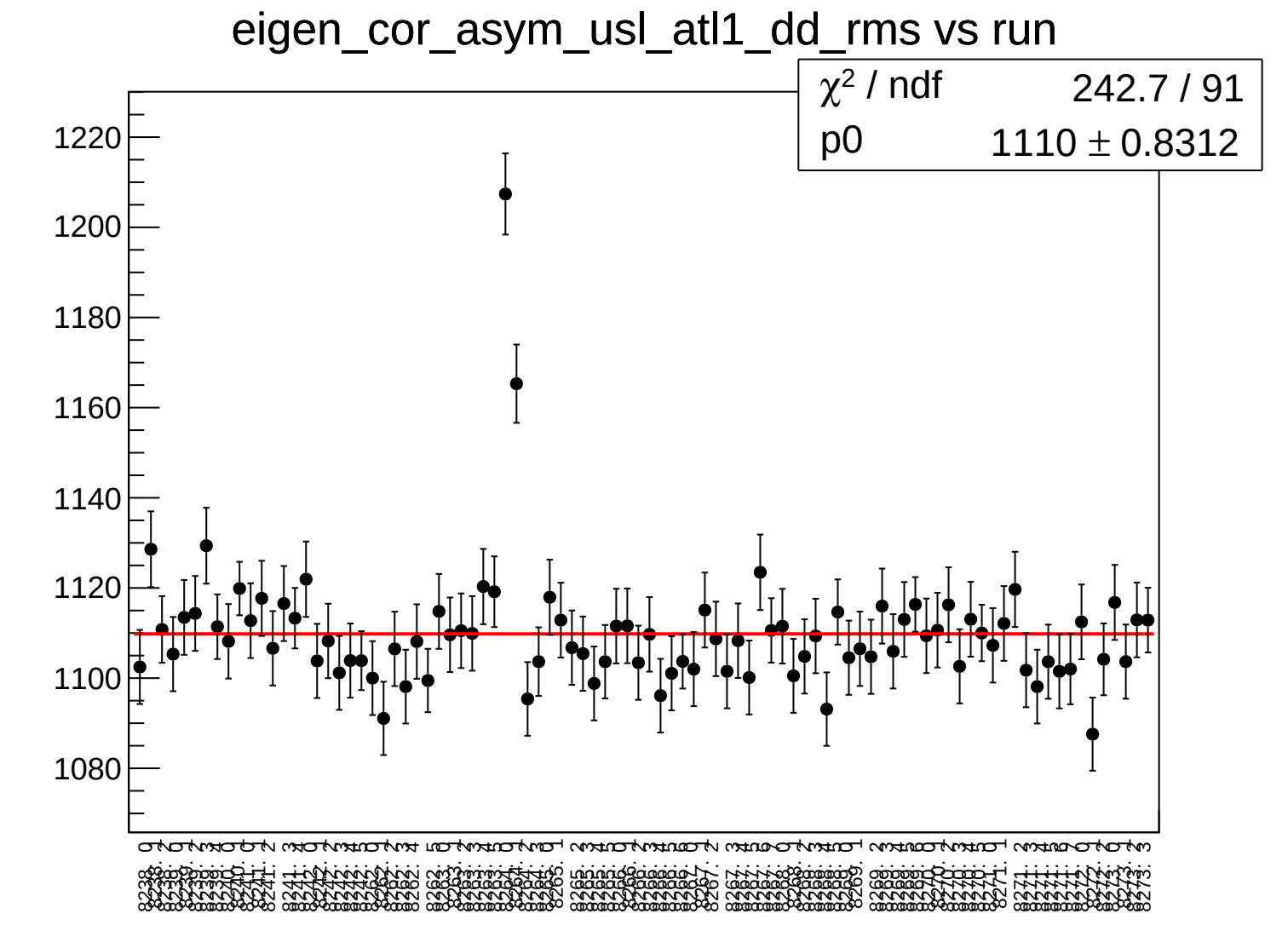

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 82.82 / 91
p0 −1830 ± 556.1
pull
Entries 92
Mean −2463
Std Dev 0

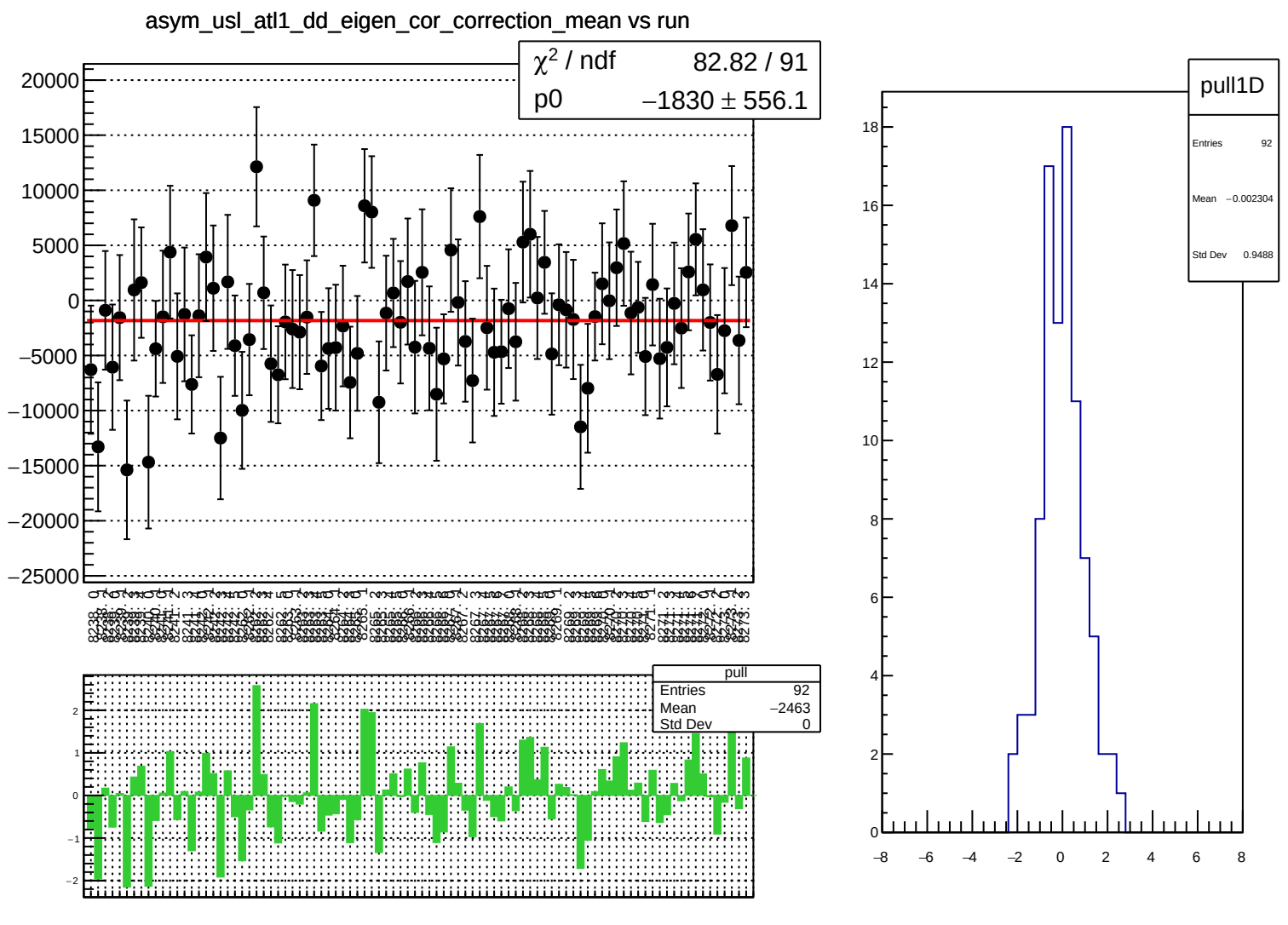

pull1D
Entries 92
Mean −0.002304
Std Dev 0.9488

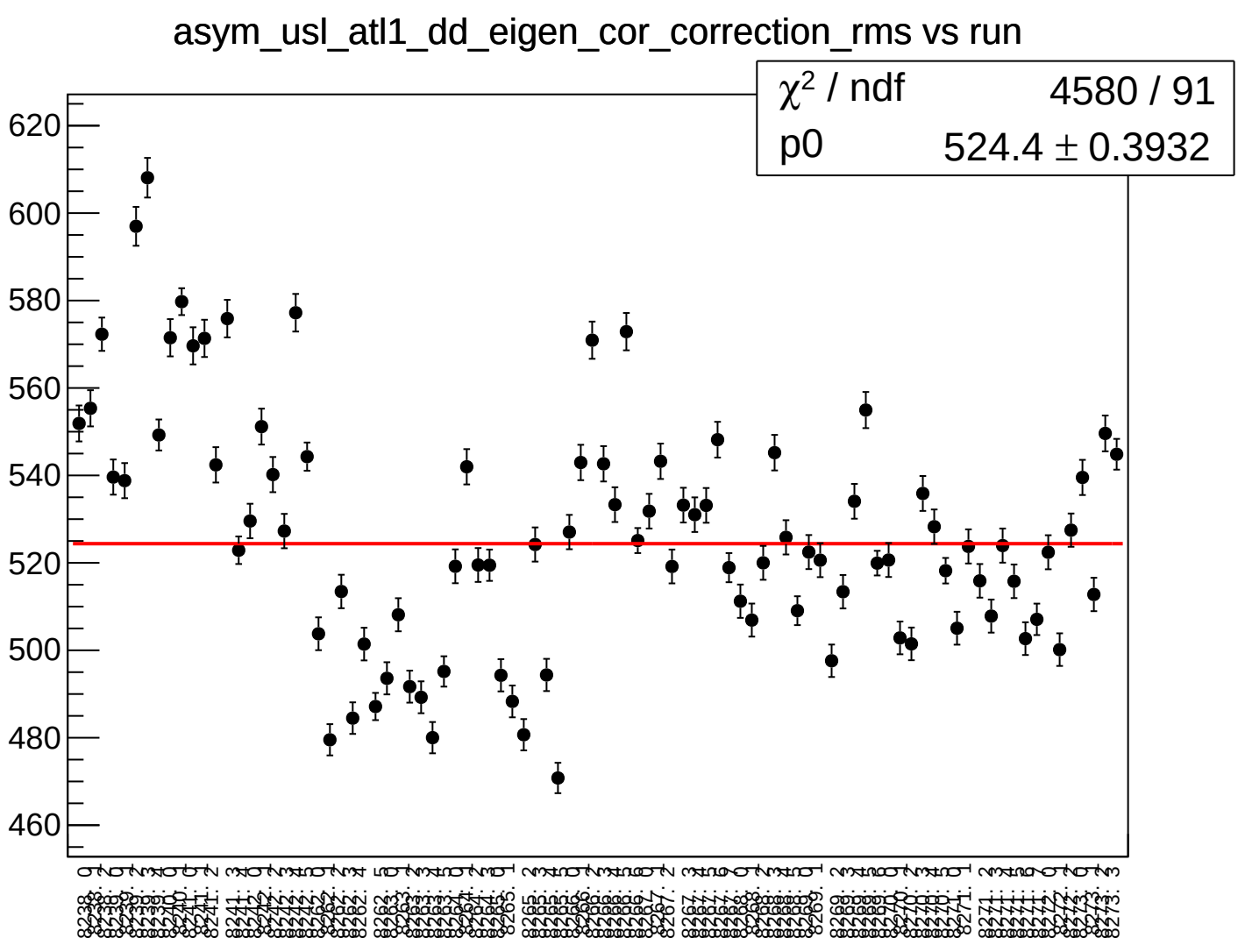

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 4580 / 91
p0 524.4 ± 0.3932
620
600
580
560
540
520
500
480
460

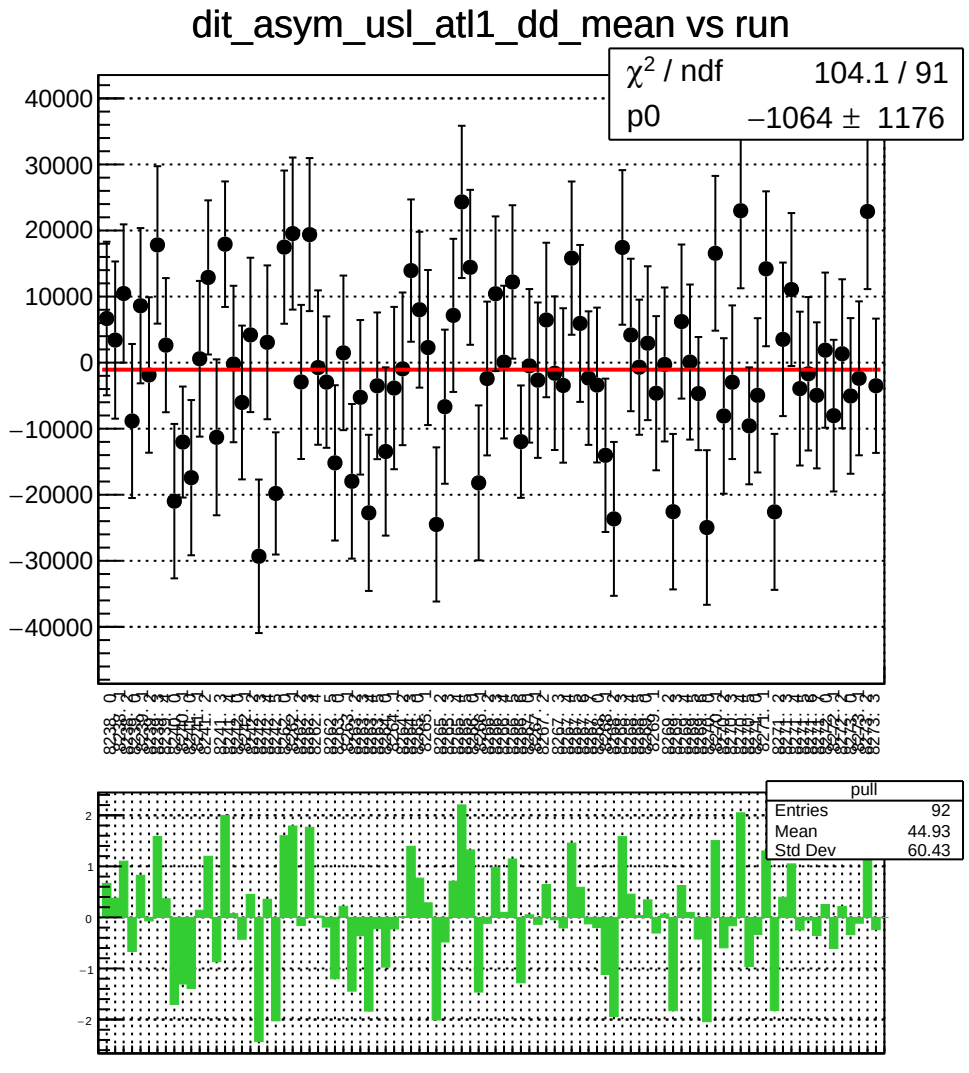

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 104.6 / 91
p0 −1077 ± 1176
pull
Entries 92
Mean 56.87
Std Dev 58.45

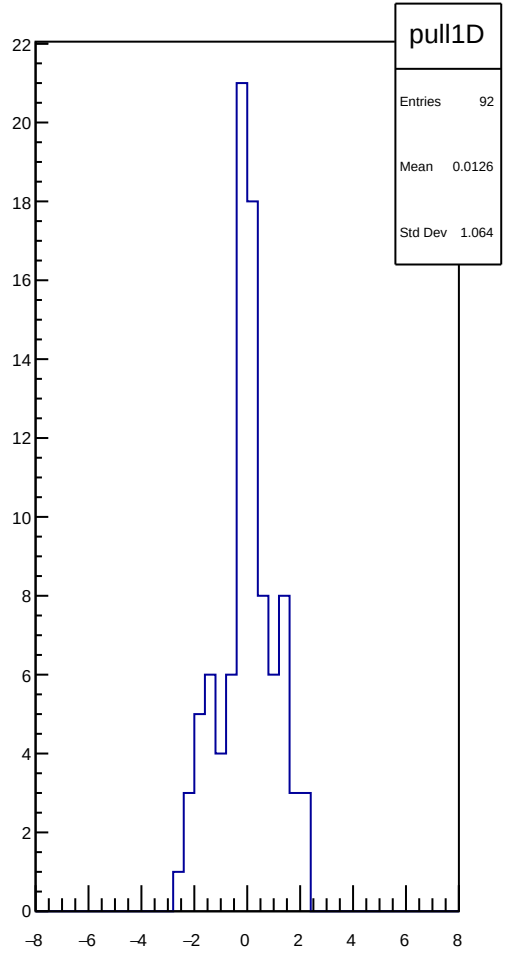

pull1D
Entries 92
Mean 0.01273
Std Dev 1.066

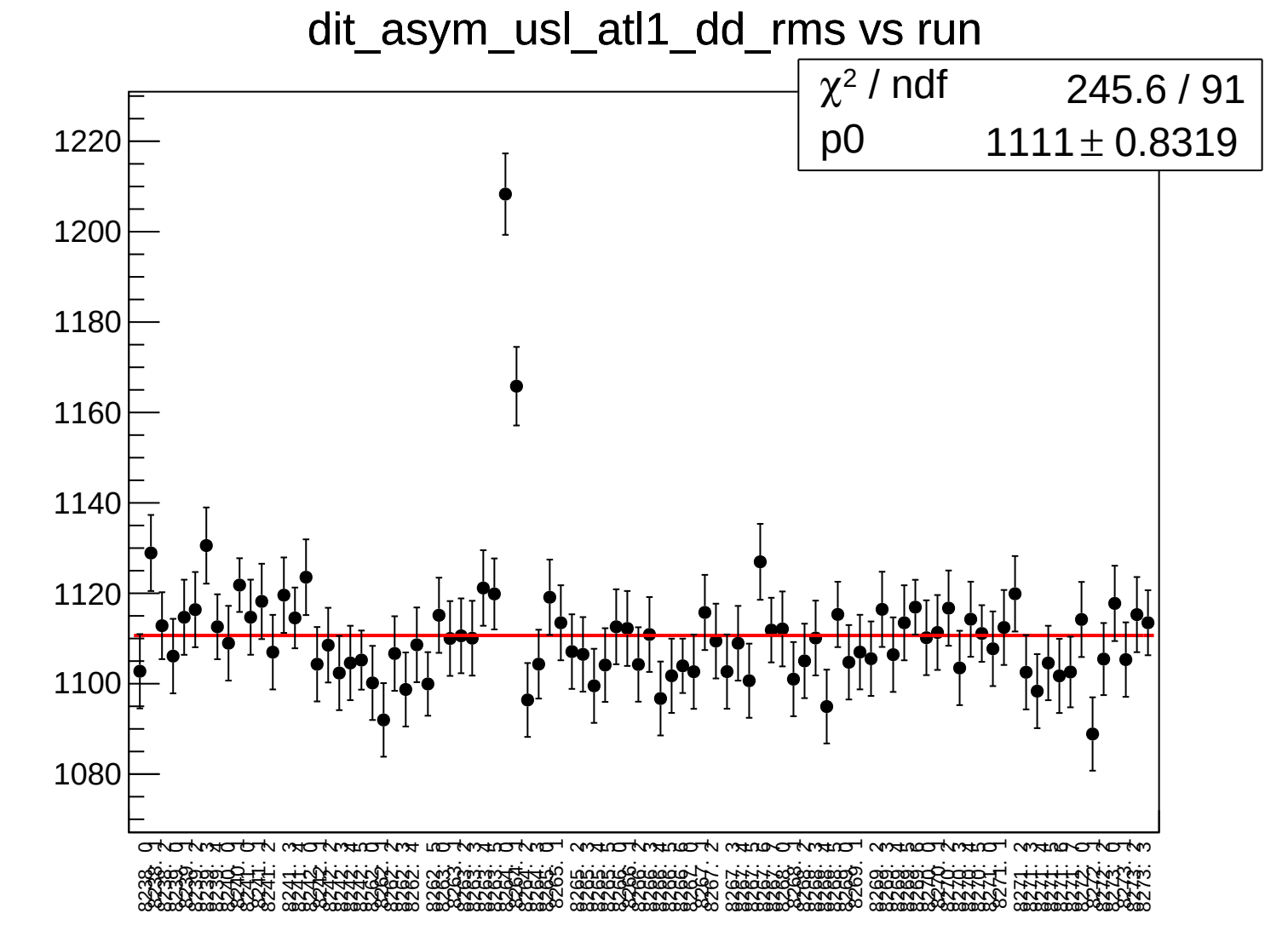

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 242.7 / 91
p0 1110 ± 0.8312
1220
1200
1180
1160
1140
1120
1100
1080

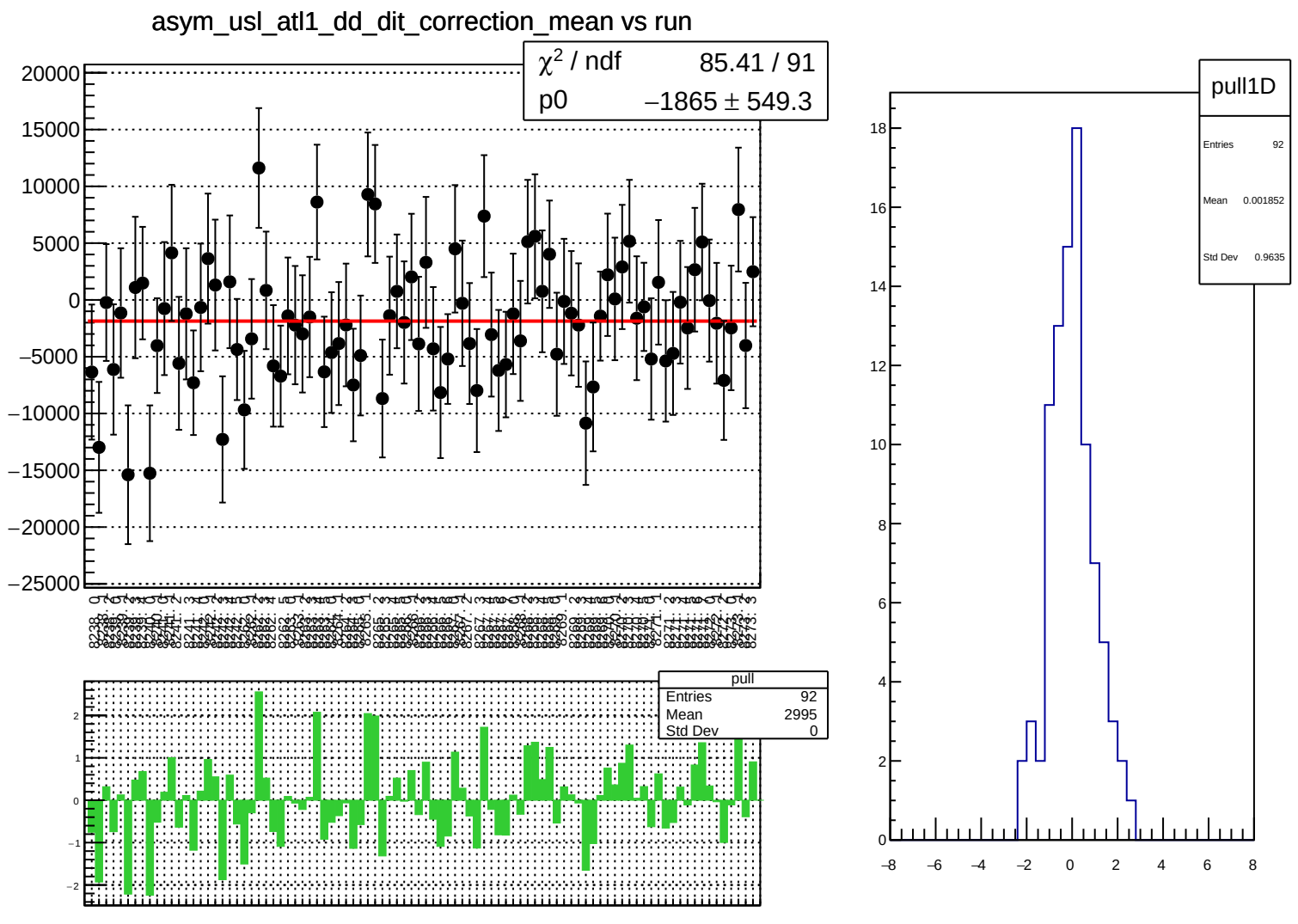

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.82 / 91
p0 −1830 ± 556.1
pull
Entries 92
Mean −2463
Std Dev 0
pull1D
Entries 92
Mean −0.002304
Std Dev 0.9488

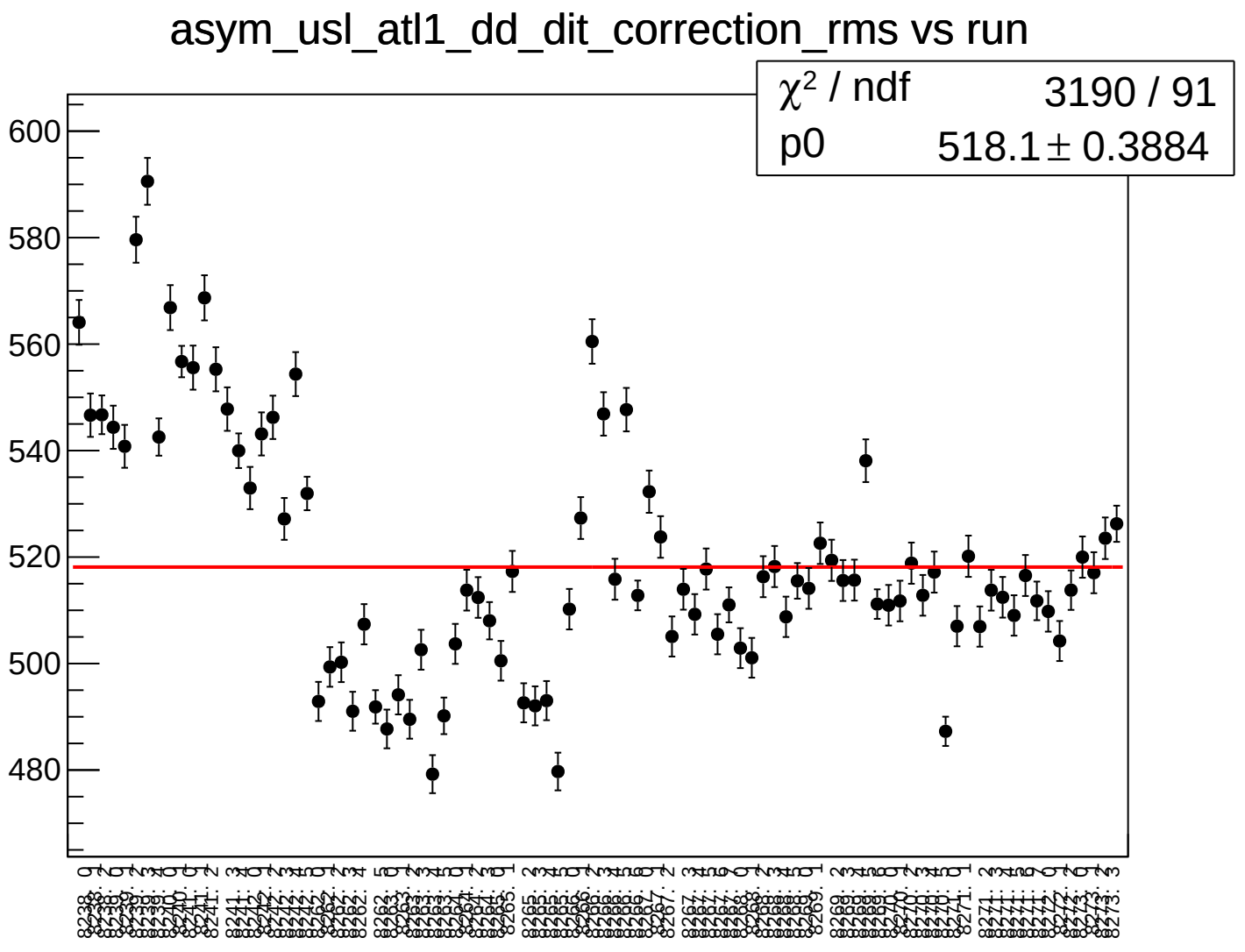

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 4580 / 91
p0 524.4 ± 0.3932
620
600
580
560
540
520
500
480
460

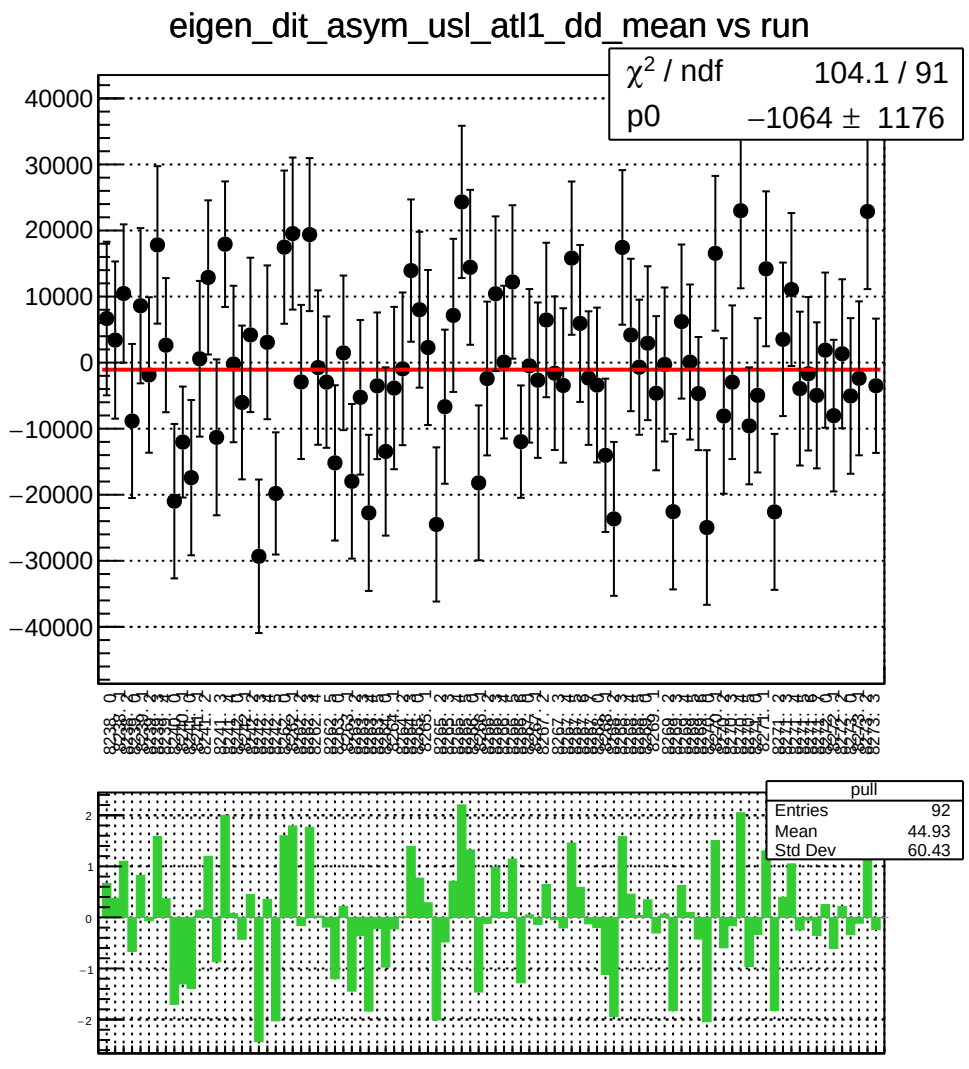

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 104.1 / 91
p0 −1064 ± 1176
pull
Entries 92
Mean 44.93
Std Dev 60.43

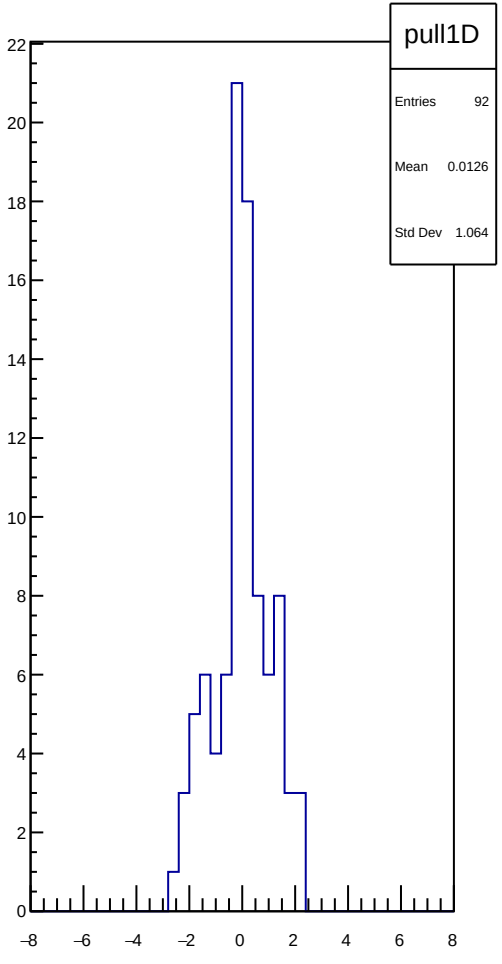

pull1D
Entries 92
Mean 0.0126
Std Dev 1.064

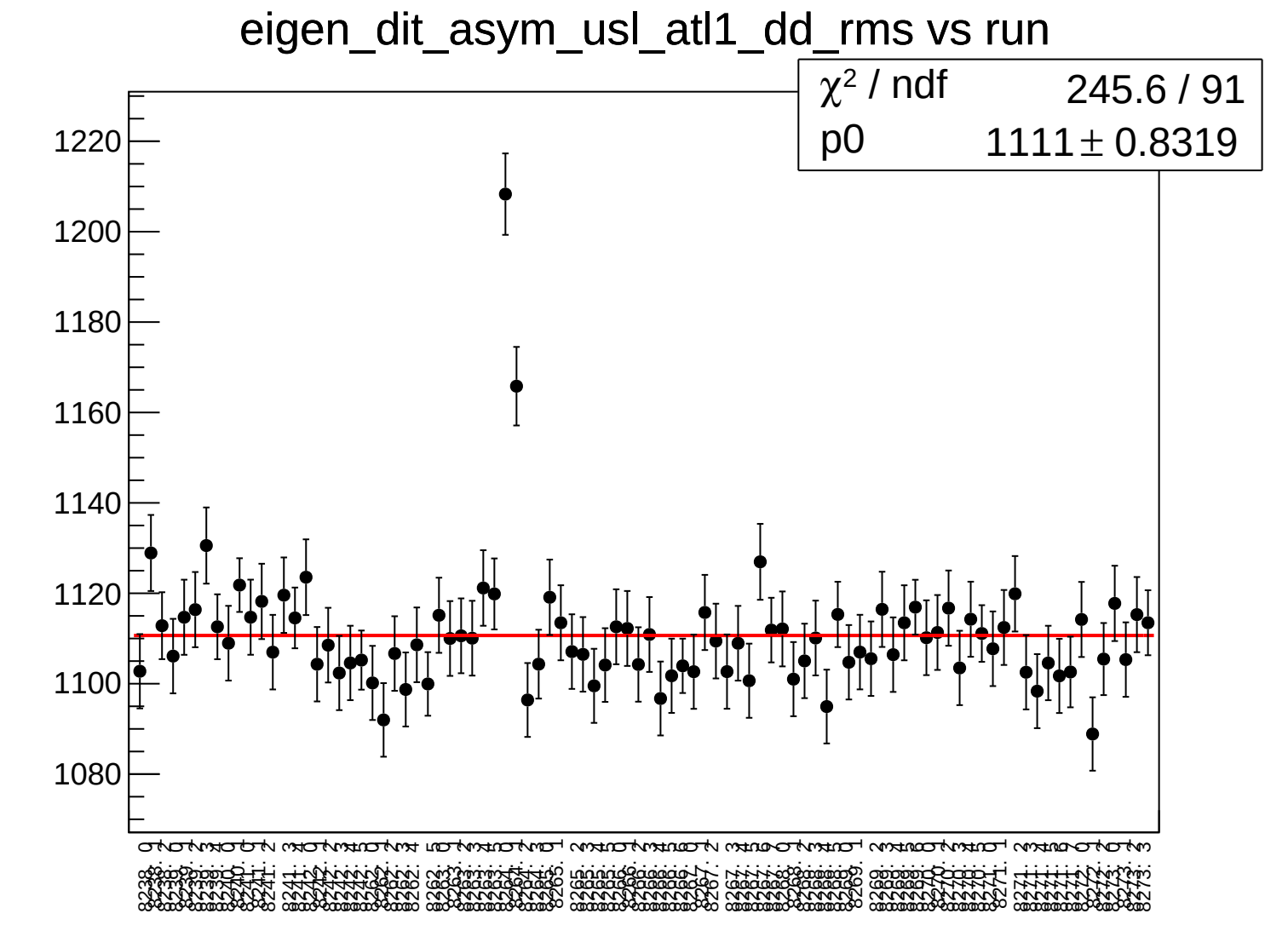

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 245.6 / 91
p0 1111 ± 0.8319
1220
1200
1180
1160
1140
1120
1100
1080

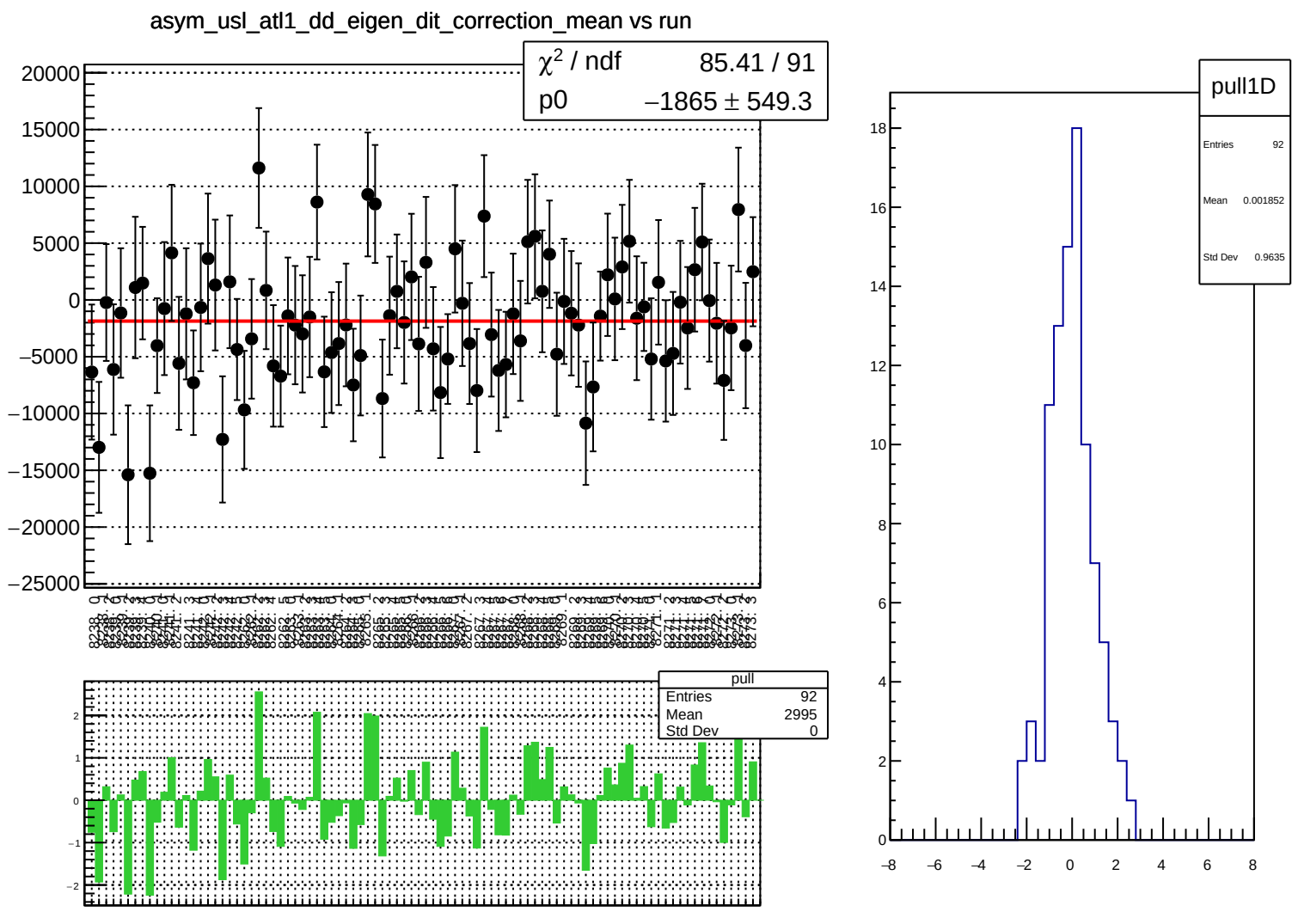

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 85.41 / 91
p0 −1865 ± 549.3
pull
Entries 92
Mean 2995
Std Dev 0
pull1D
Entries 92
Mean 0.001852
Std Dev 0.9635

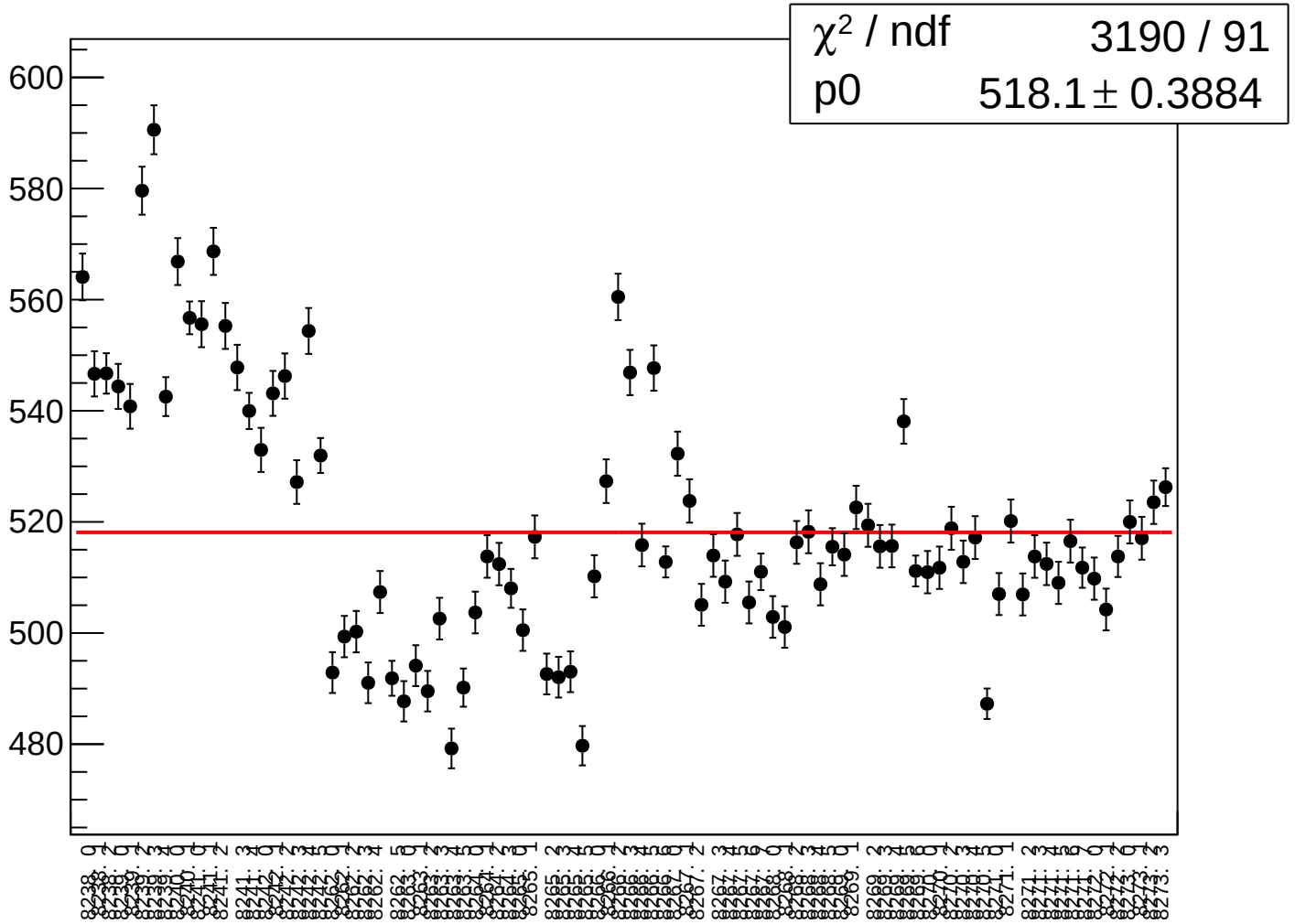

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 3190 / 91
p0 518.1 ± 0.3884
600
580
560
540
520
500
480

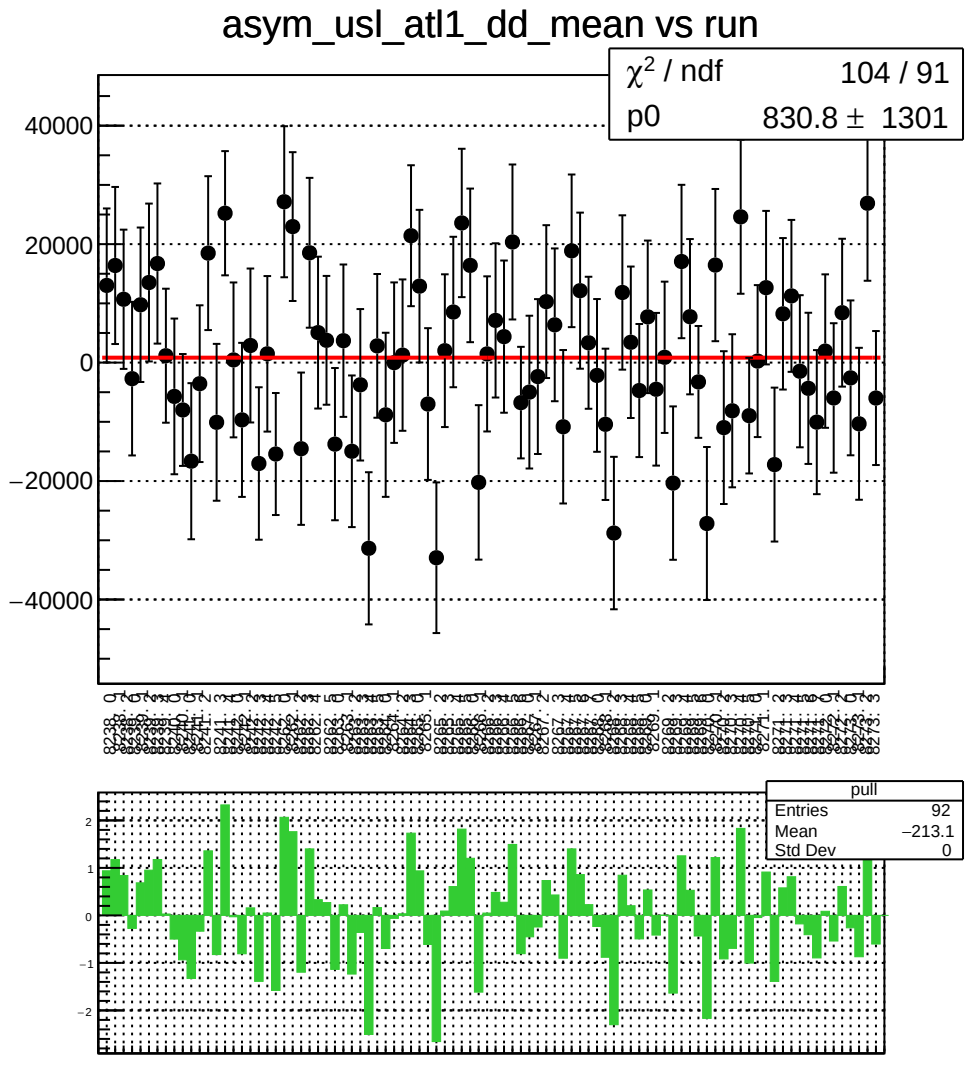

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 104.1 / 91
p0 −1064 ± 1176
pull
Entries 92
Mean 44.93
Std Dev 60.43

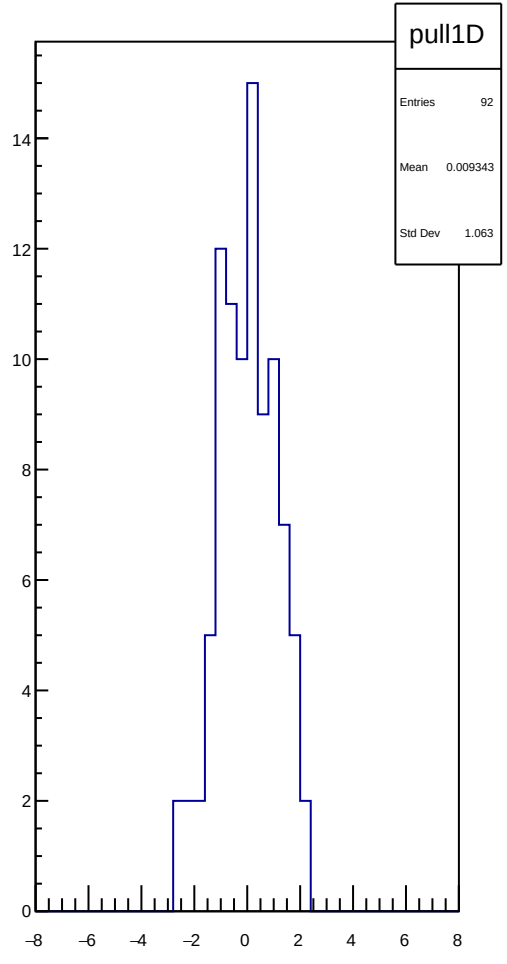

pull1D
Entries 92
Mean 0.0126
Std Dev 1.064

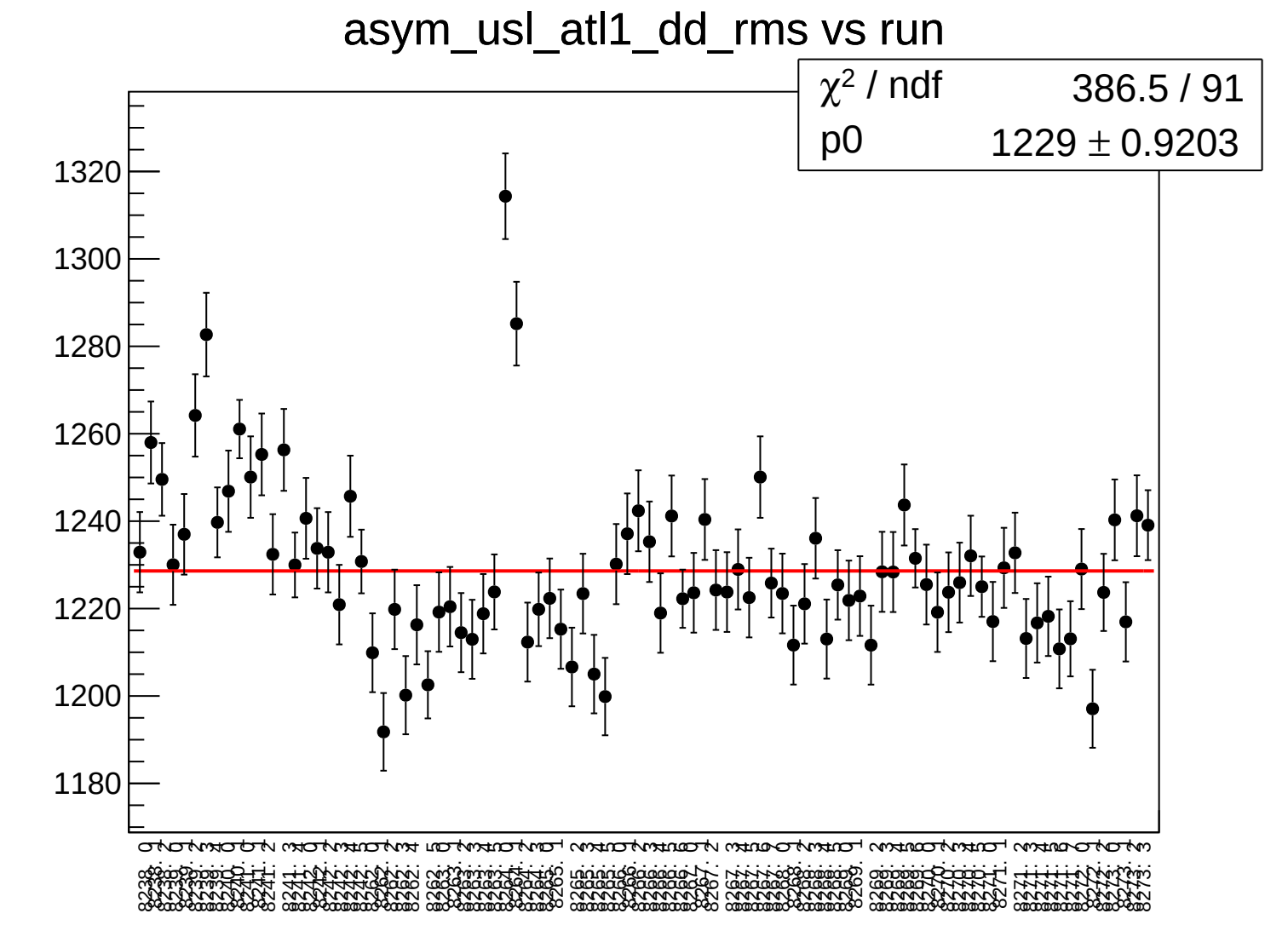

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 245.6 / 91
p0 1111 ± 0.8319
1220
1200
1180
1160
1140
1120
1100
1080

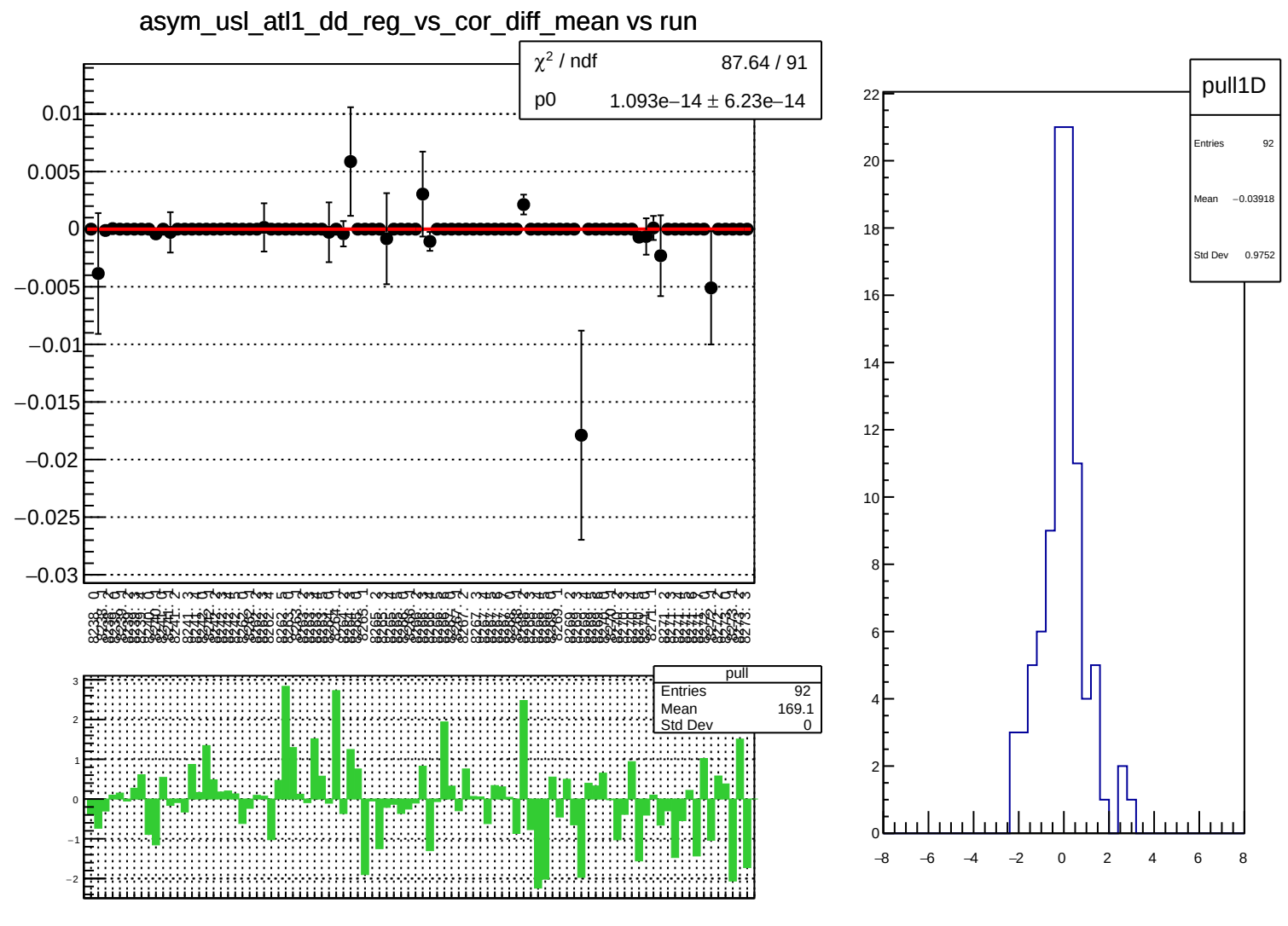

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.41 / 91
p0 −1865 ± 549.3
pull
Entries 92
Mean 2995
Std Dev 0
pull1D
Entries 92
Mean 0.001852
Std Dev 0.9635

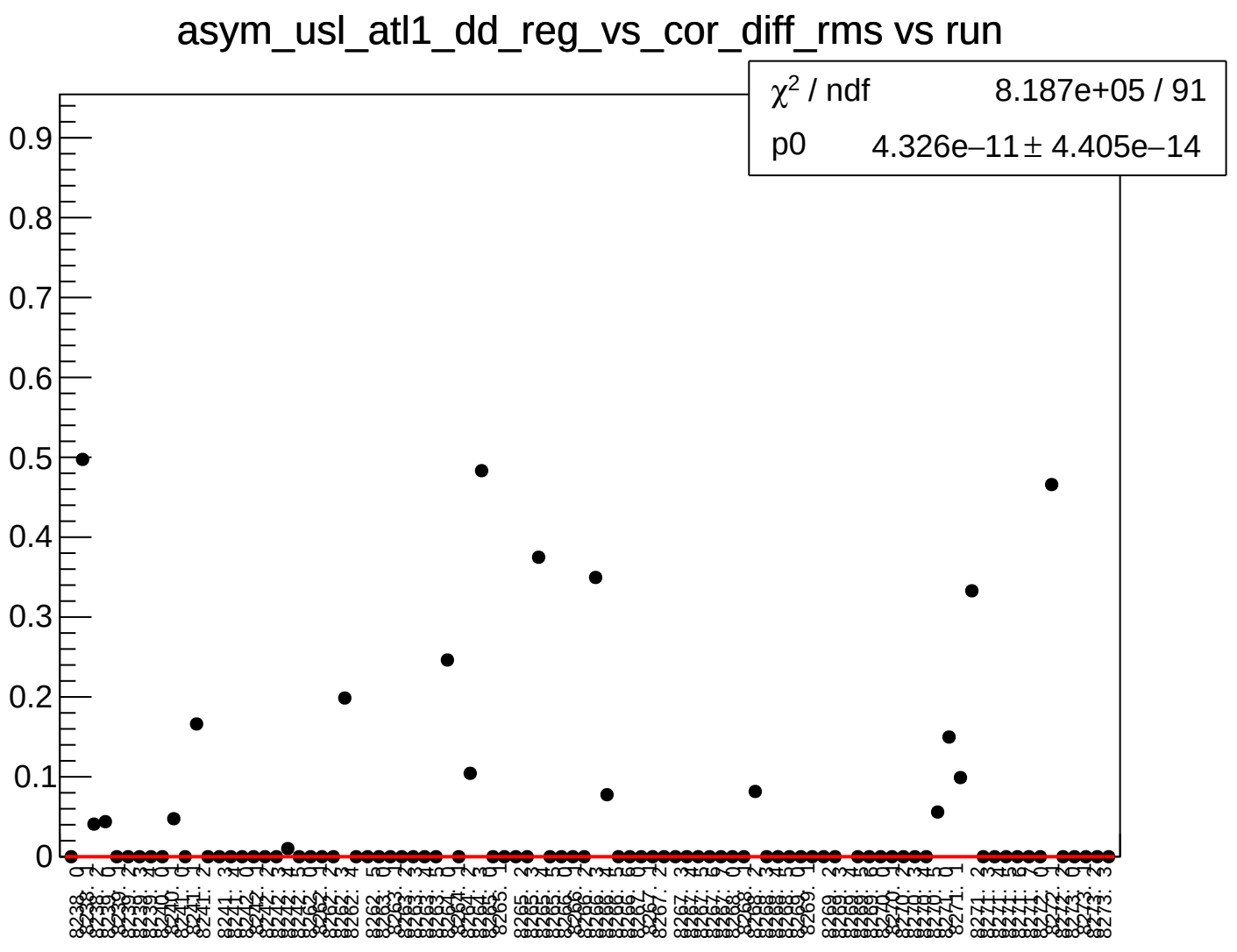

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3190 / 91
p0 518.1 ± 0.3884
600
580
560
540
520
500
480

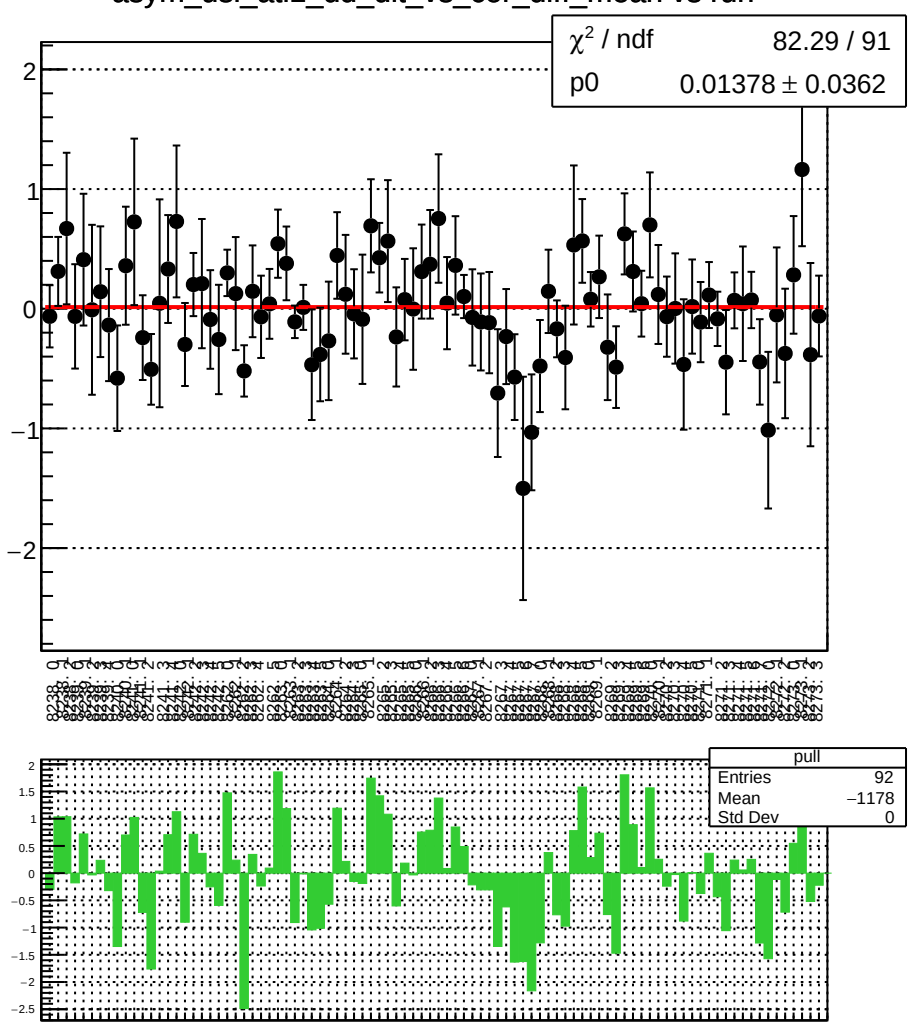

asym_usl_atl1_dd_mean vs run
χ² / ndf 104 / 91
p0 830.8 ± 1301
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −213.1
Std Dev 0
2
1
0
−1
−2

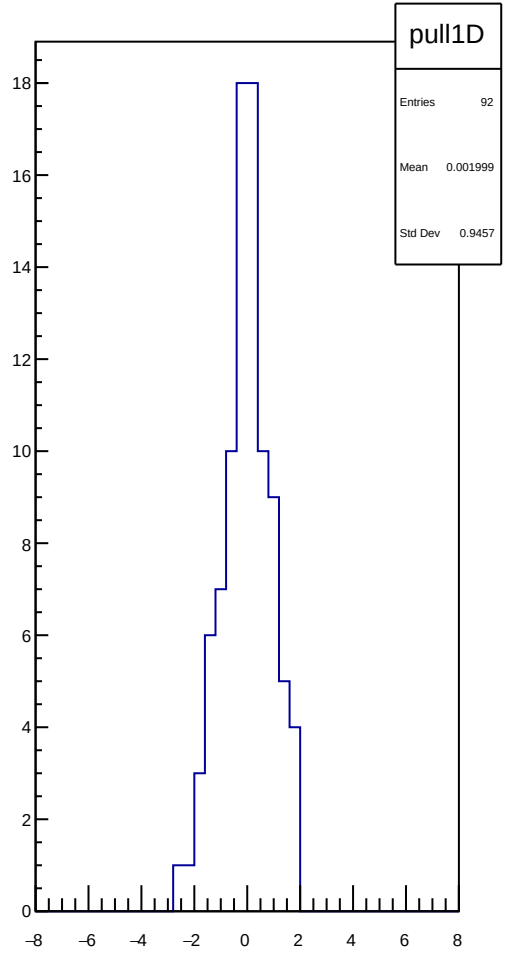

pull1D
Entries 92
Mean 0.009343
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

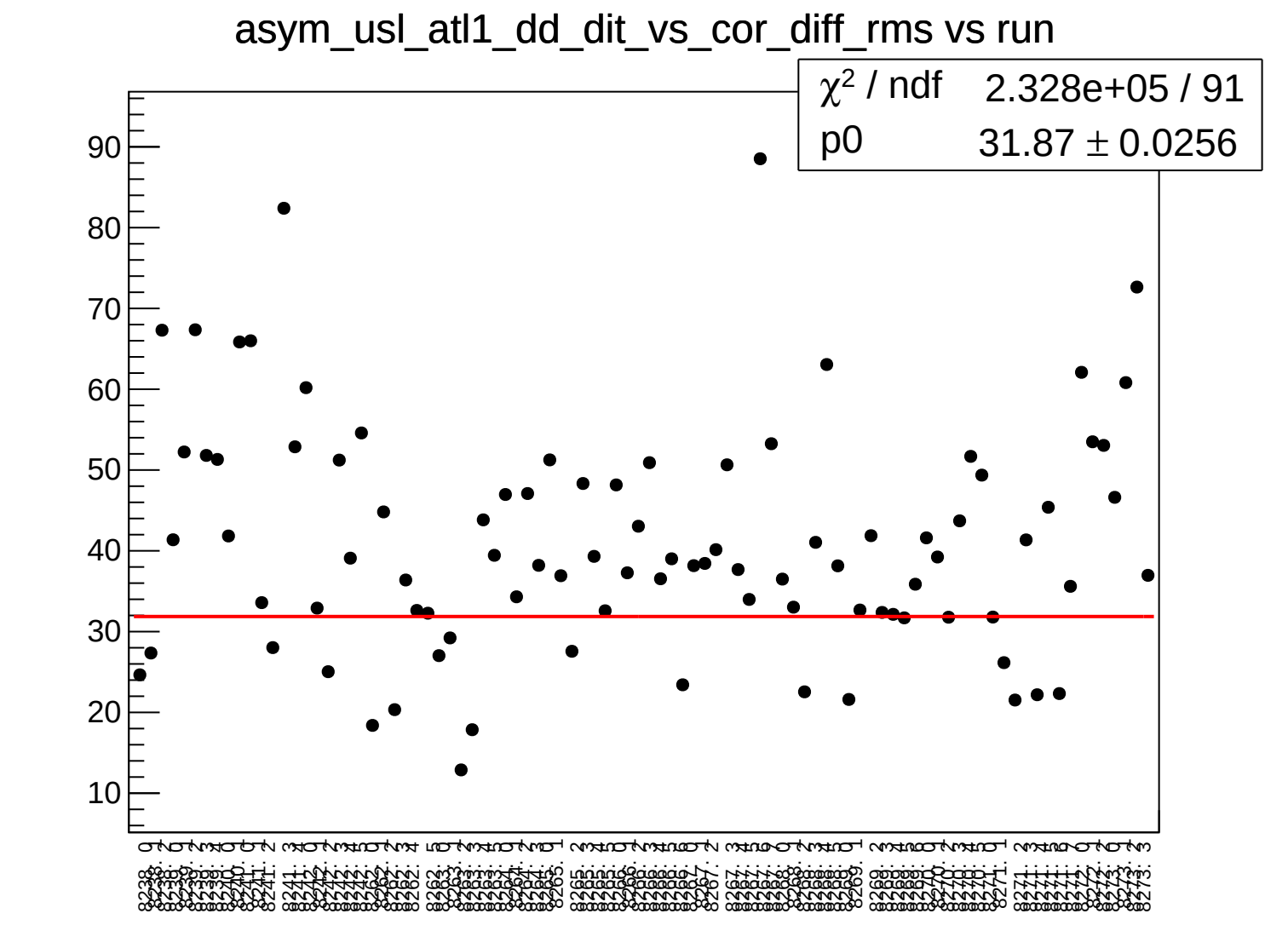

asym_usl_atl1_dd_rms vs run
χ² / ndf 386.5 / 91
p0 1229 ± 0.9203
1320
1300
1280
1260
1240
1220
1200
1180

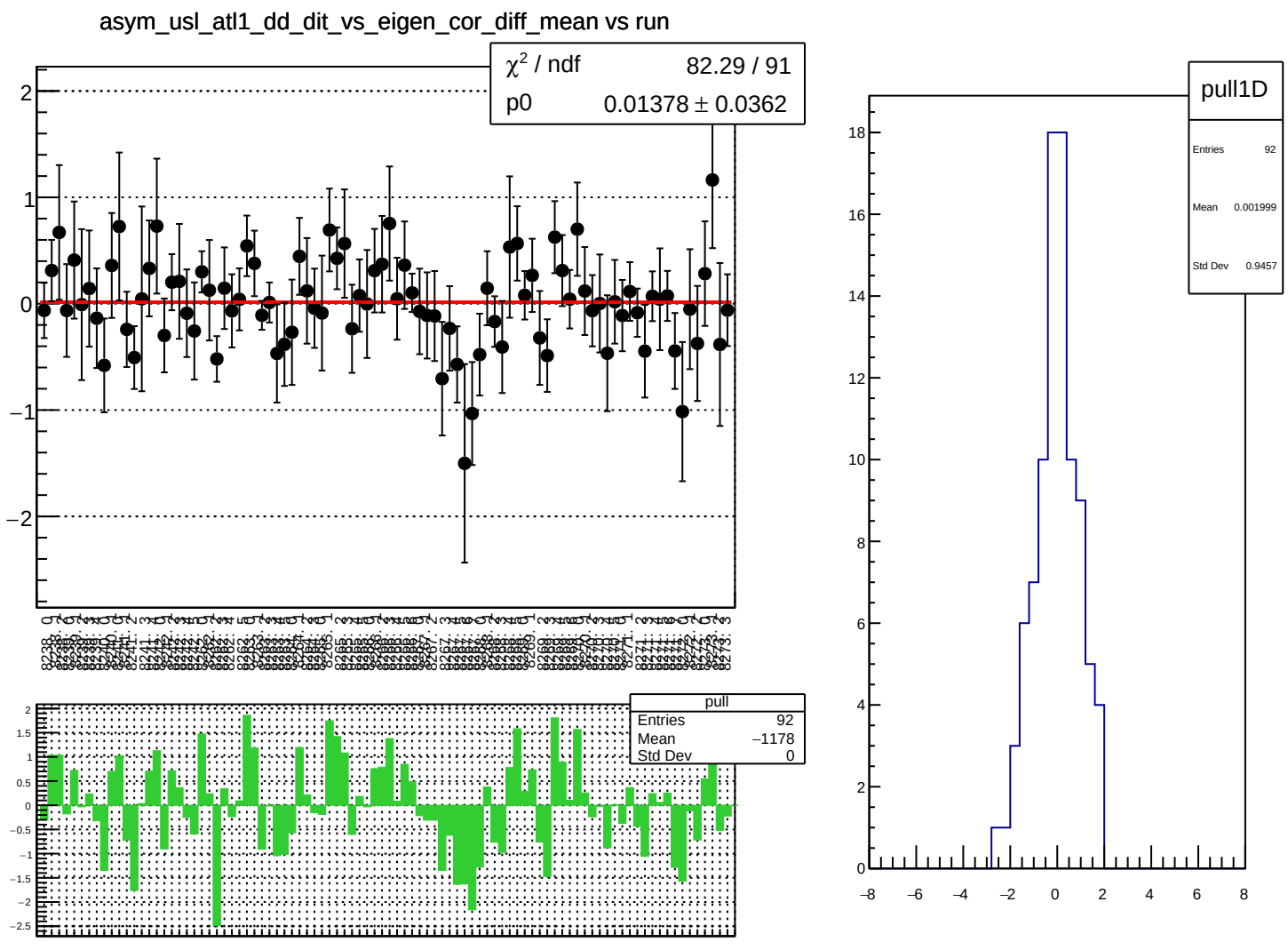

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.64 / 91
p0 1.093e−14 ± 6.23e−14
pull
Entries 92
Mean 169.1
Std Dev 0
pull1D
Entries 92
Mean −0.03918
Std Dev 0.9752

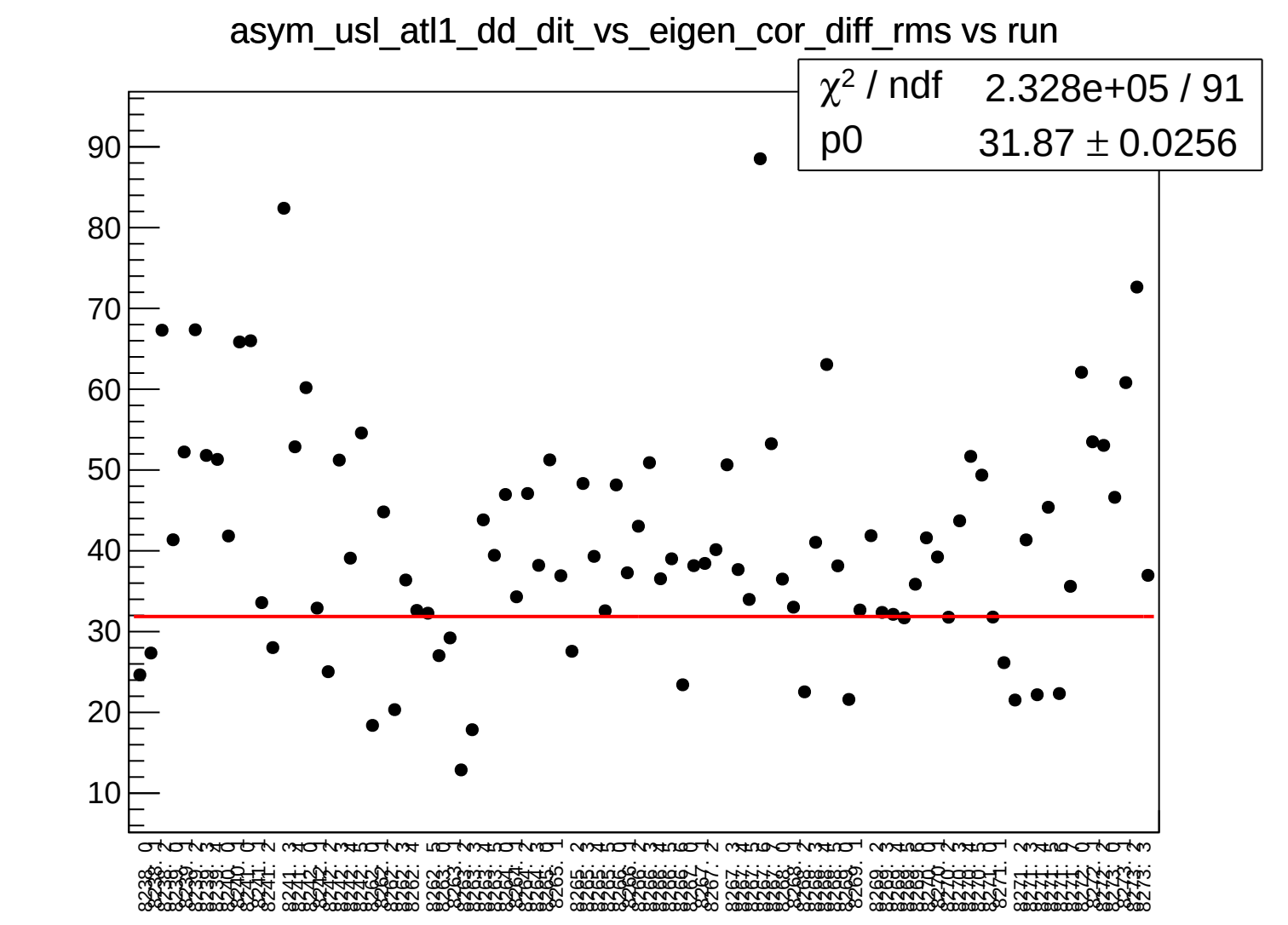

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.187e+05 / 91
p0 4.326e−11 ± 4.405e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

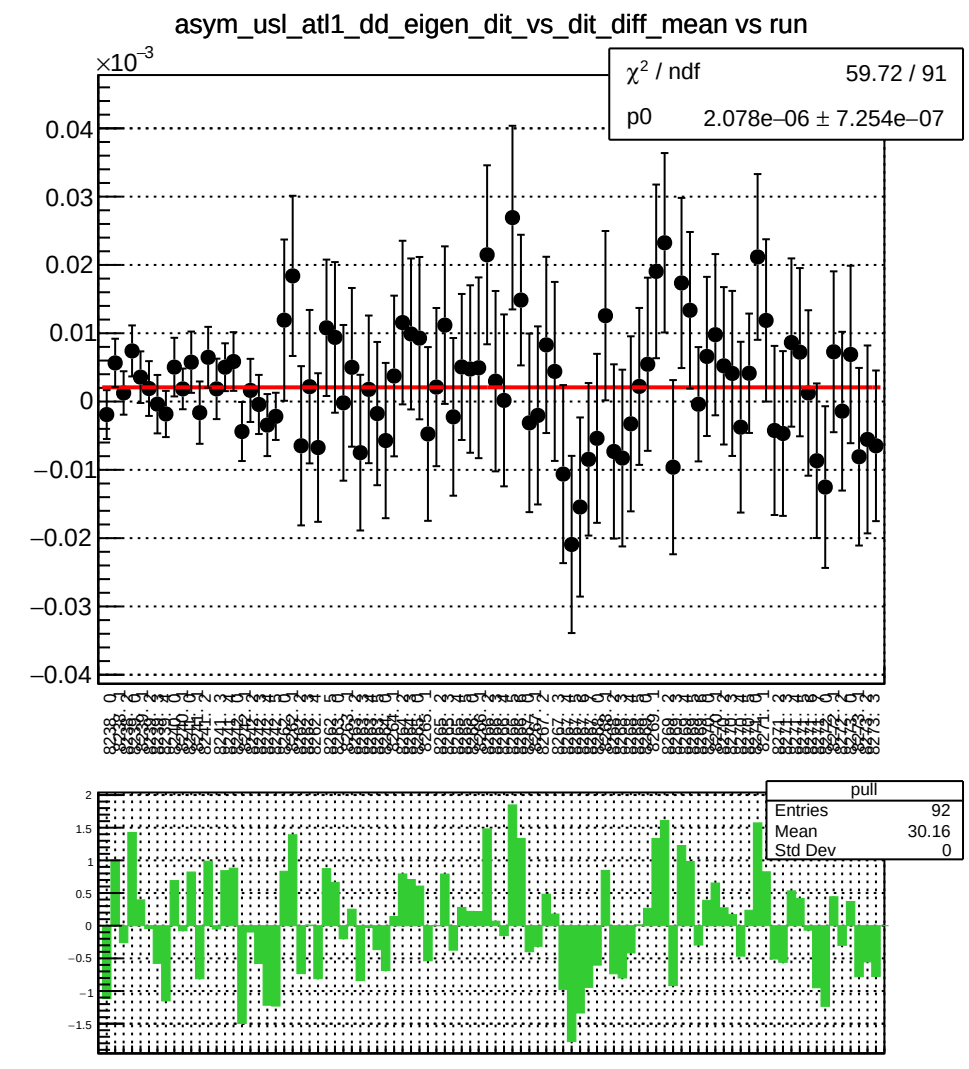

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.29 / 91
p0 0.01378 ± 0.0362
pull
Entries 92
Mean −1178
Std Dev 0

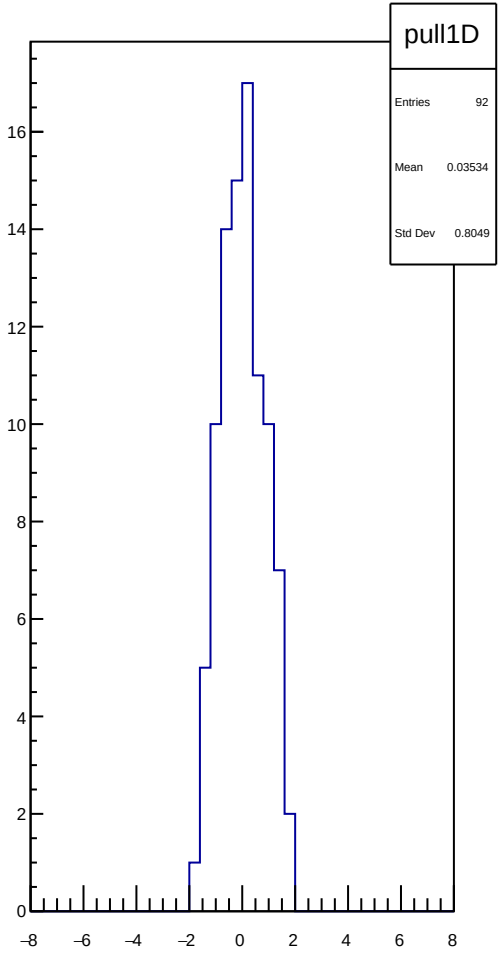

pull1D
Entries 92
Mean 0.001999
Std Dev 0.9457

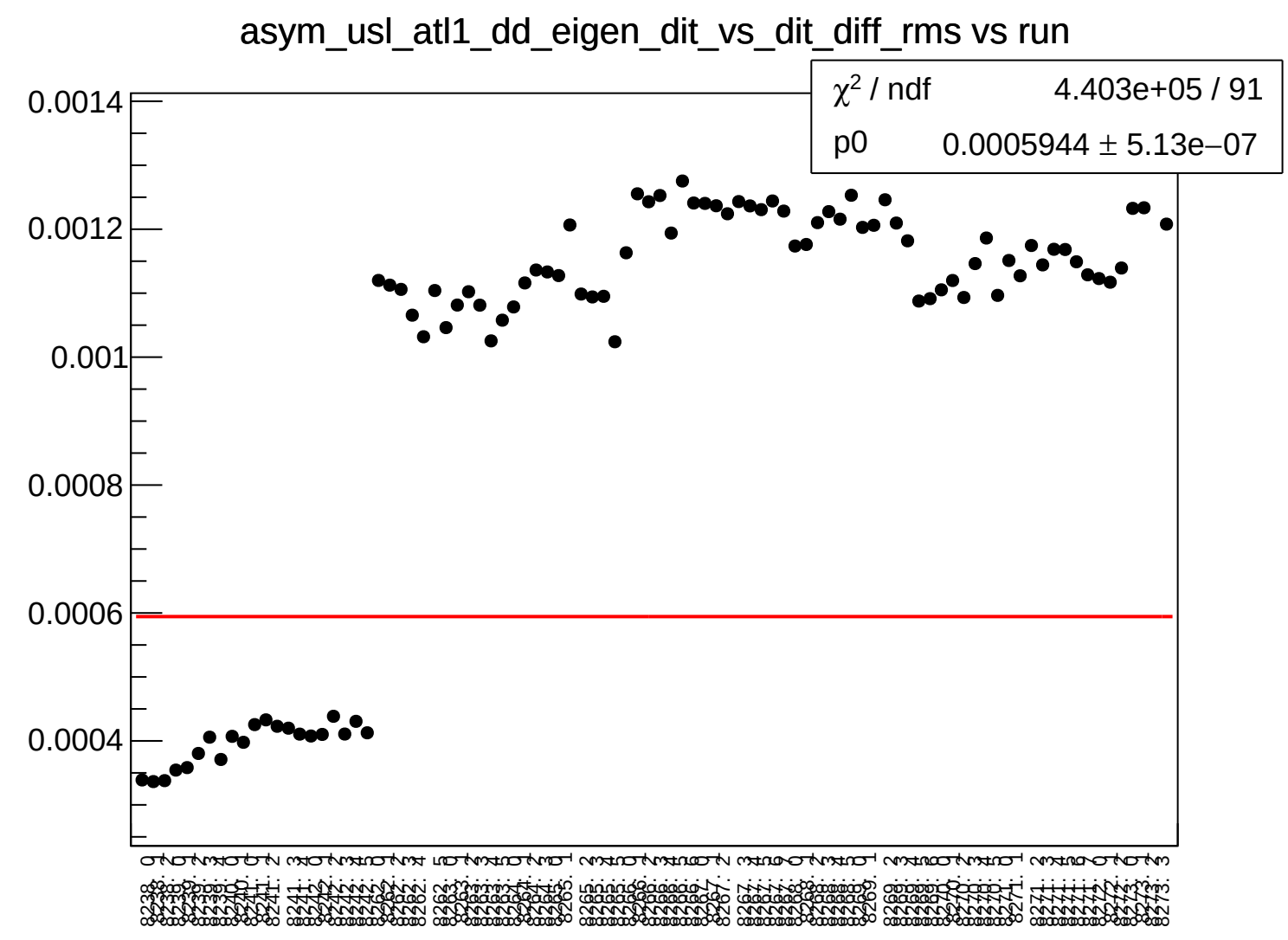

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.328e+05 / 91
p0 31.87 ± 0.0256
90
80
70
60
50
40
30
20
10

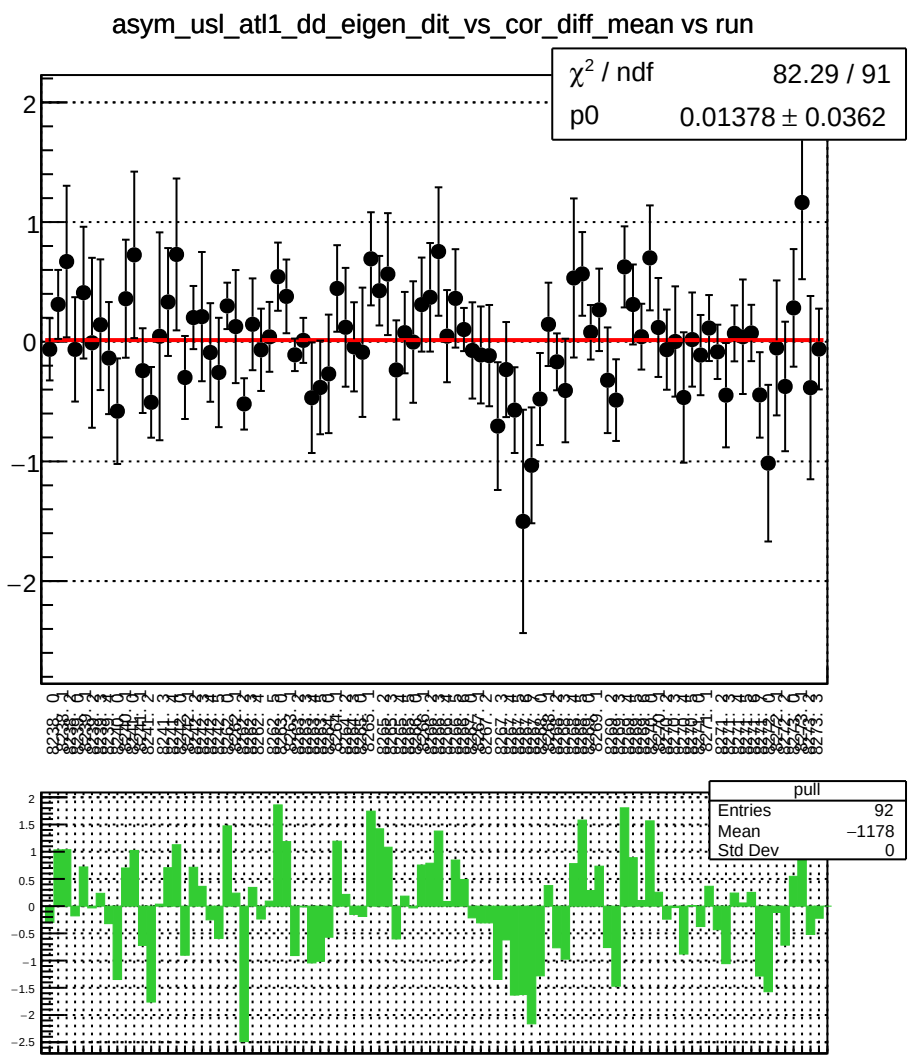

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.29 / 91
p0 0.01378 ± 0.0362
pull
Entries 92
Mean −1178
Std Dev 0
pull1D
Entries 92
Mean 0.001999
Std Dev 0.9457

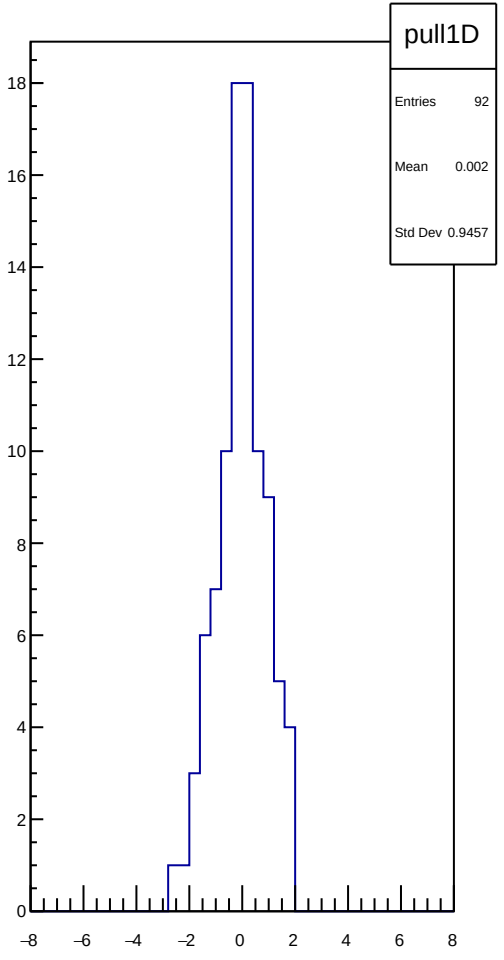

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.328e+05 / 91
p0 31.87 ± 0.0256
90
80
70
60
50
40
30
20
10

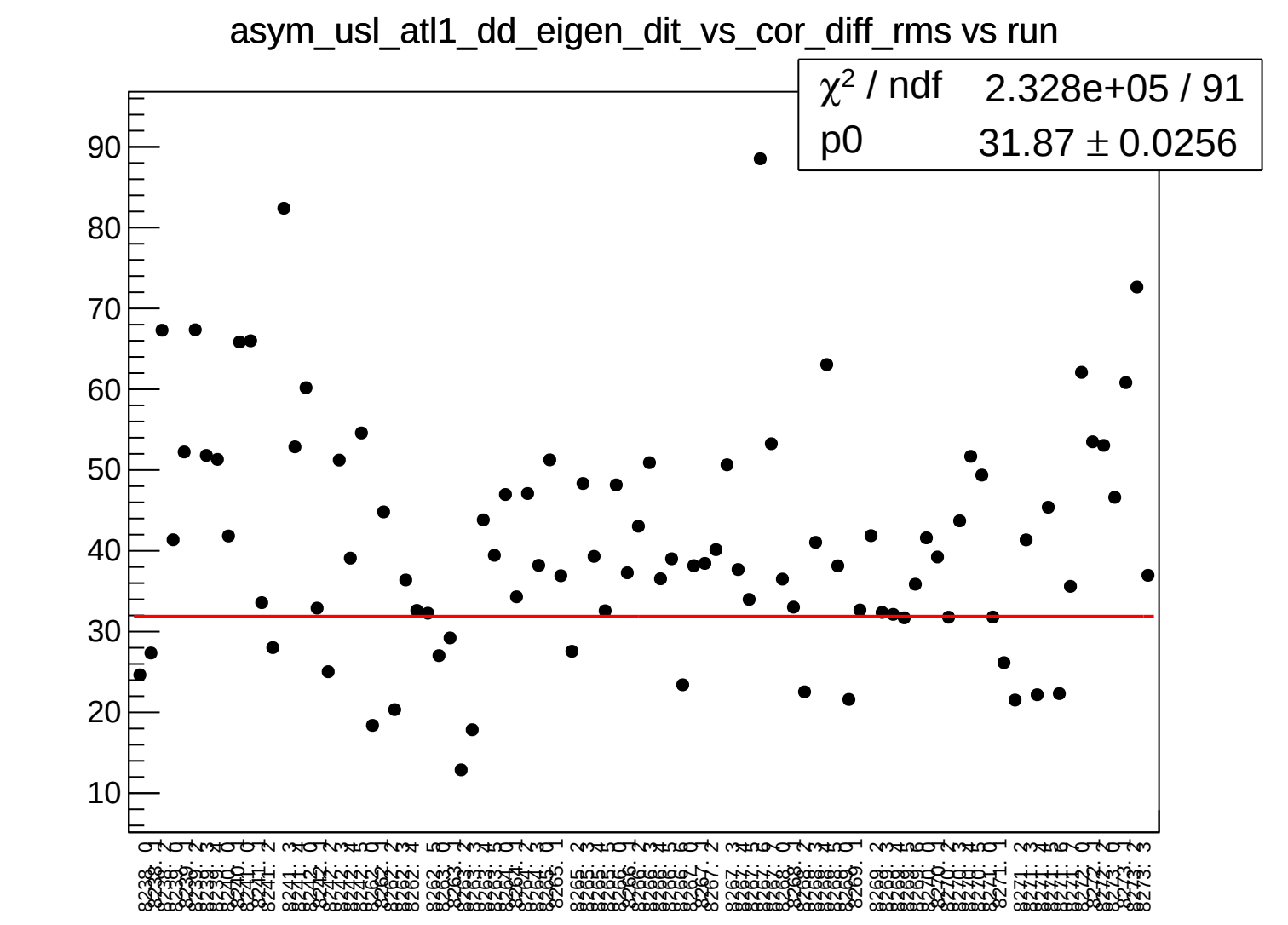

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 59.72 / 91
p0 2.078e−06 ± 7.254e−07
pull
Entries 92
Mean 30.16
Std Dev 0

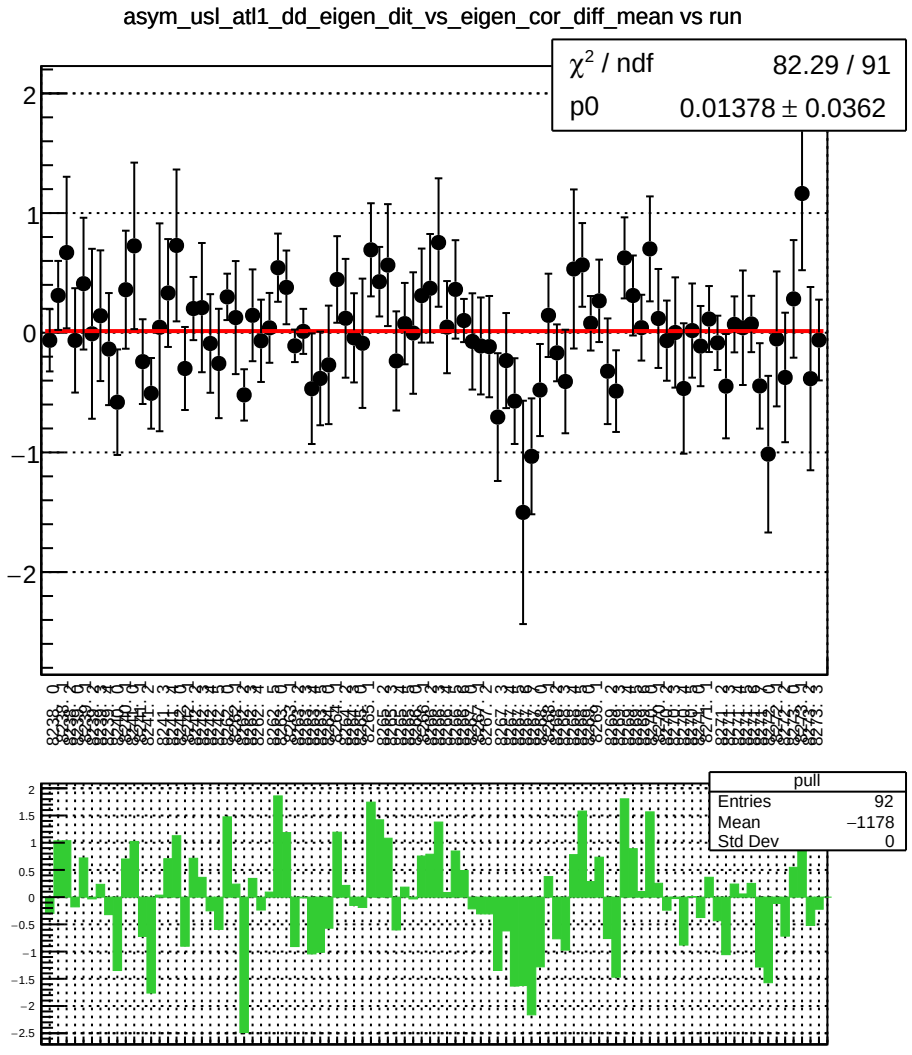

pull1D
Entries 92
Mean 0.03534
Std Dev 0.8049

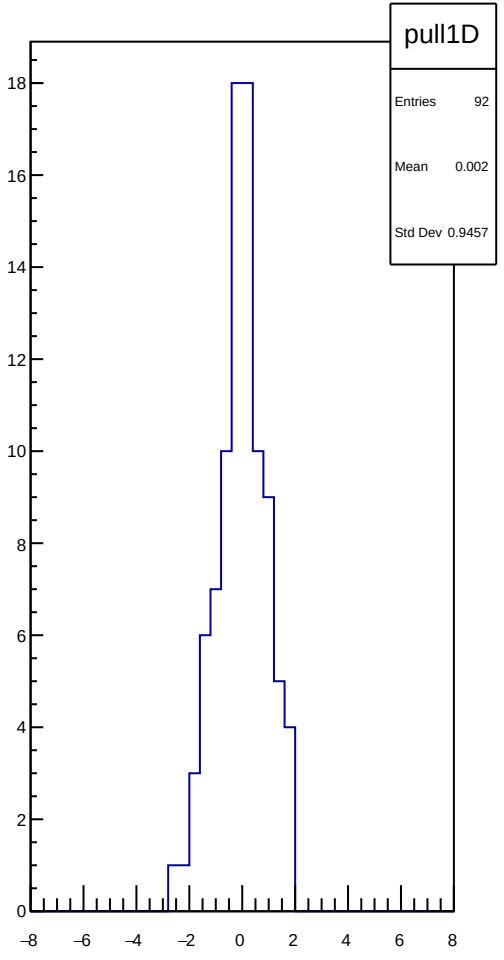

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.403e+05 / 91
p0 0.0005944 ± 5.13e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

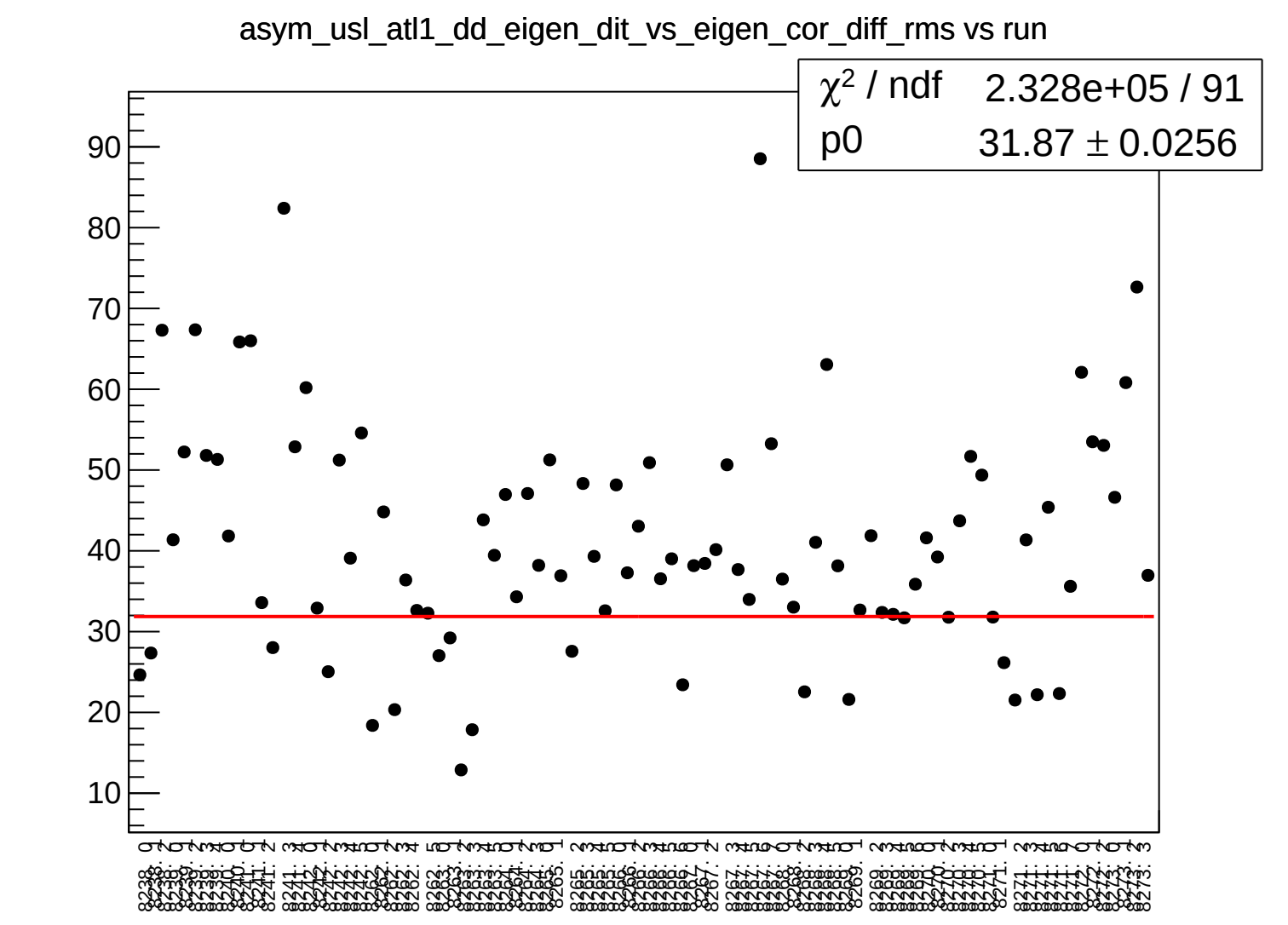

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.29 / 91
p0 0.01378 ± 0.0362
pull
Entries 92
Mean −1178
Std Dev 0

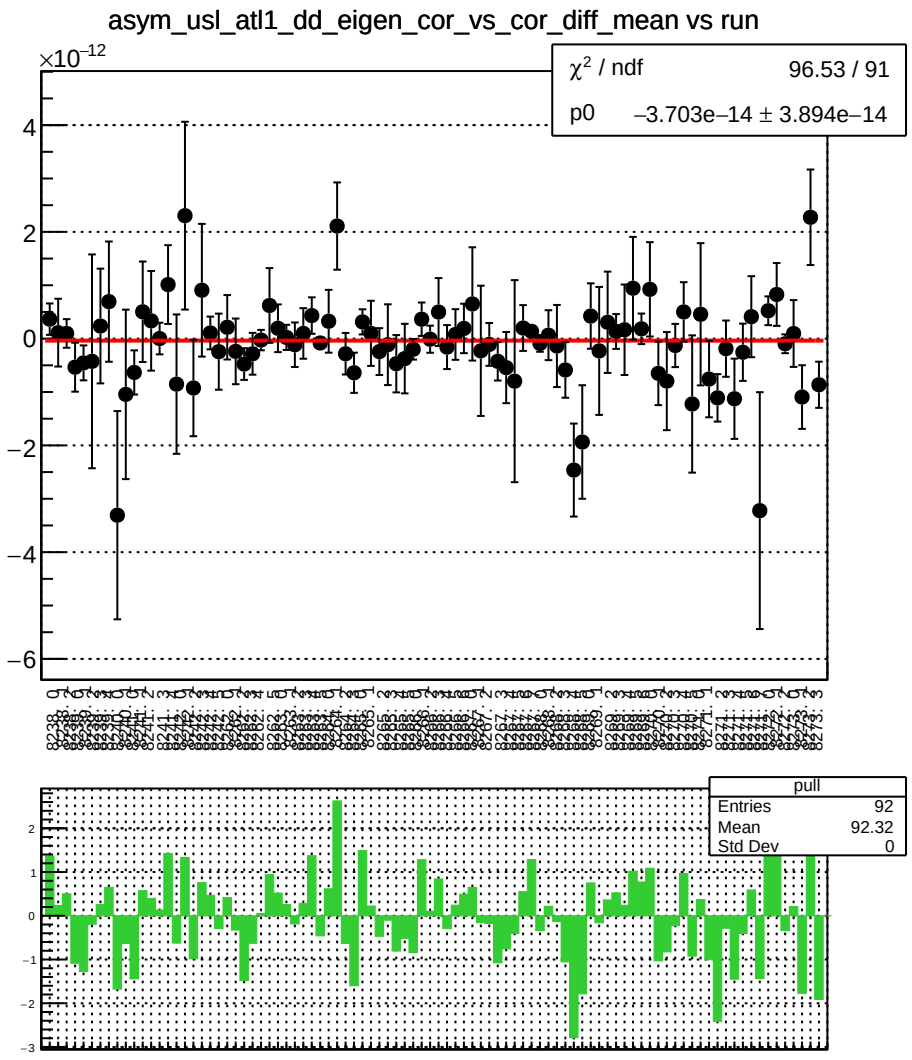

pull1D
Entries 92
Mean 0.002
Std Dev 0.9457

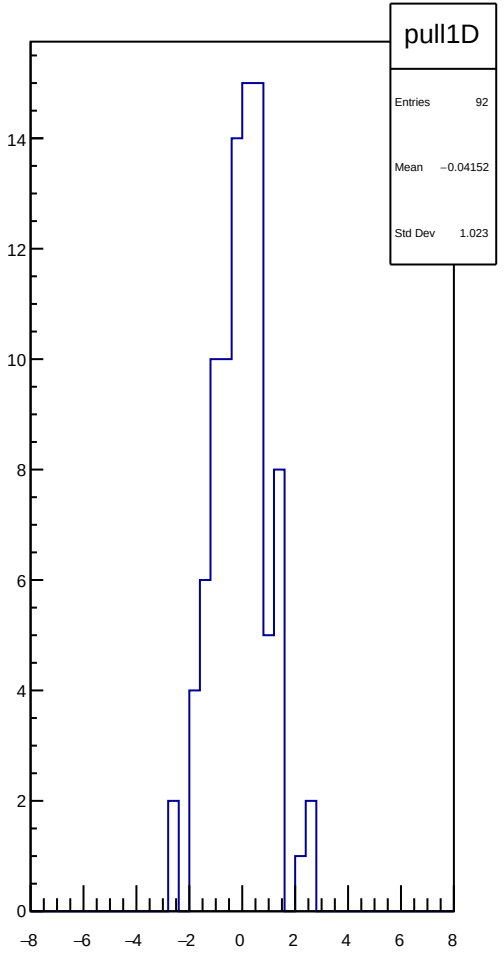

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.328e+05 / 91
p0 31.87 ± 0.0256
90
80
70
60
50
40
30
20
10

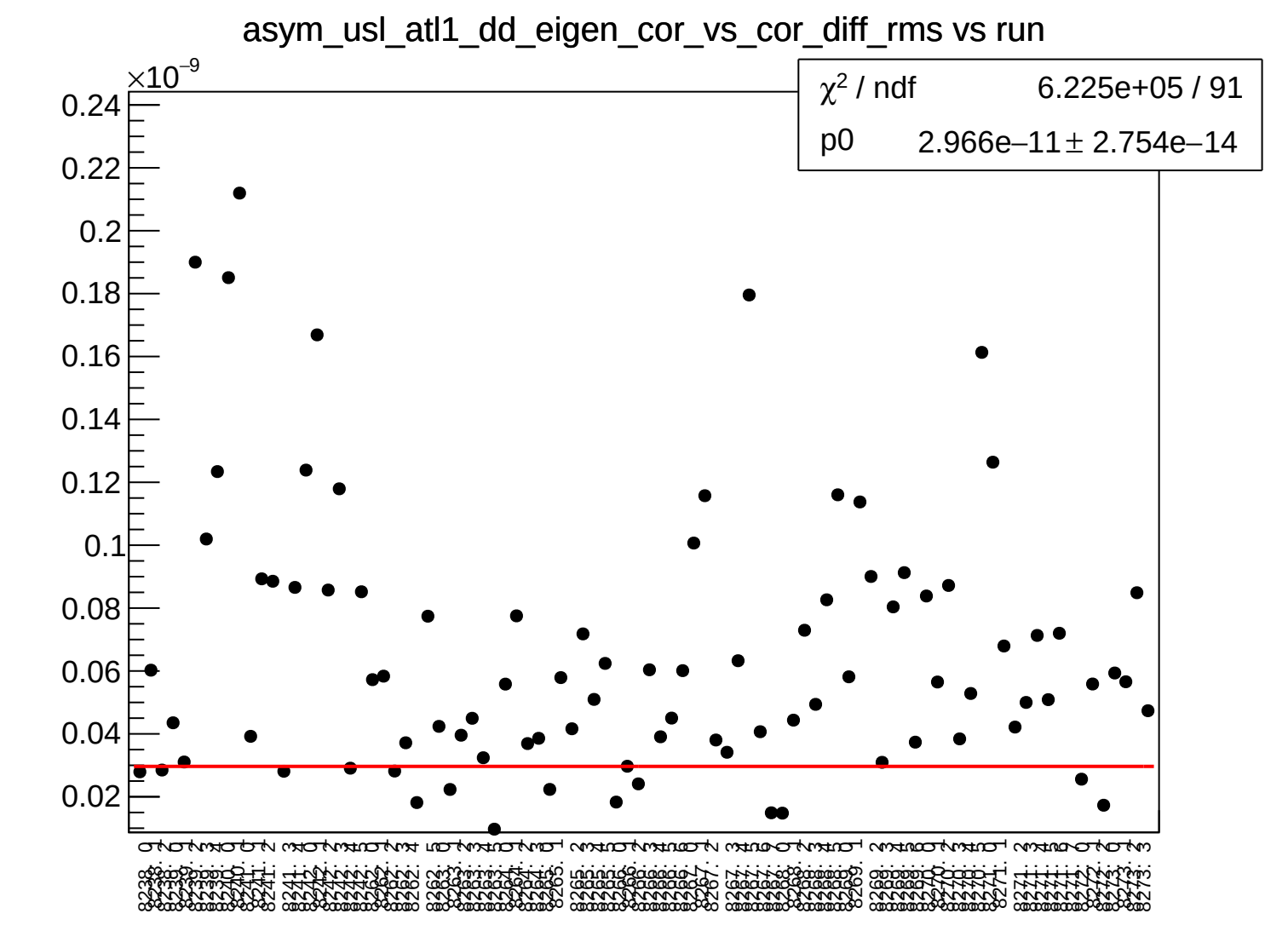

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.29 / 91
p0 0.01378 ± 0.0362
pull
Entries 92
Mean −1178
Std Dev 0

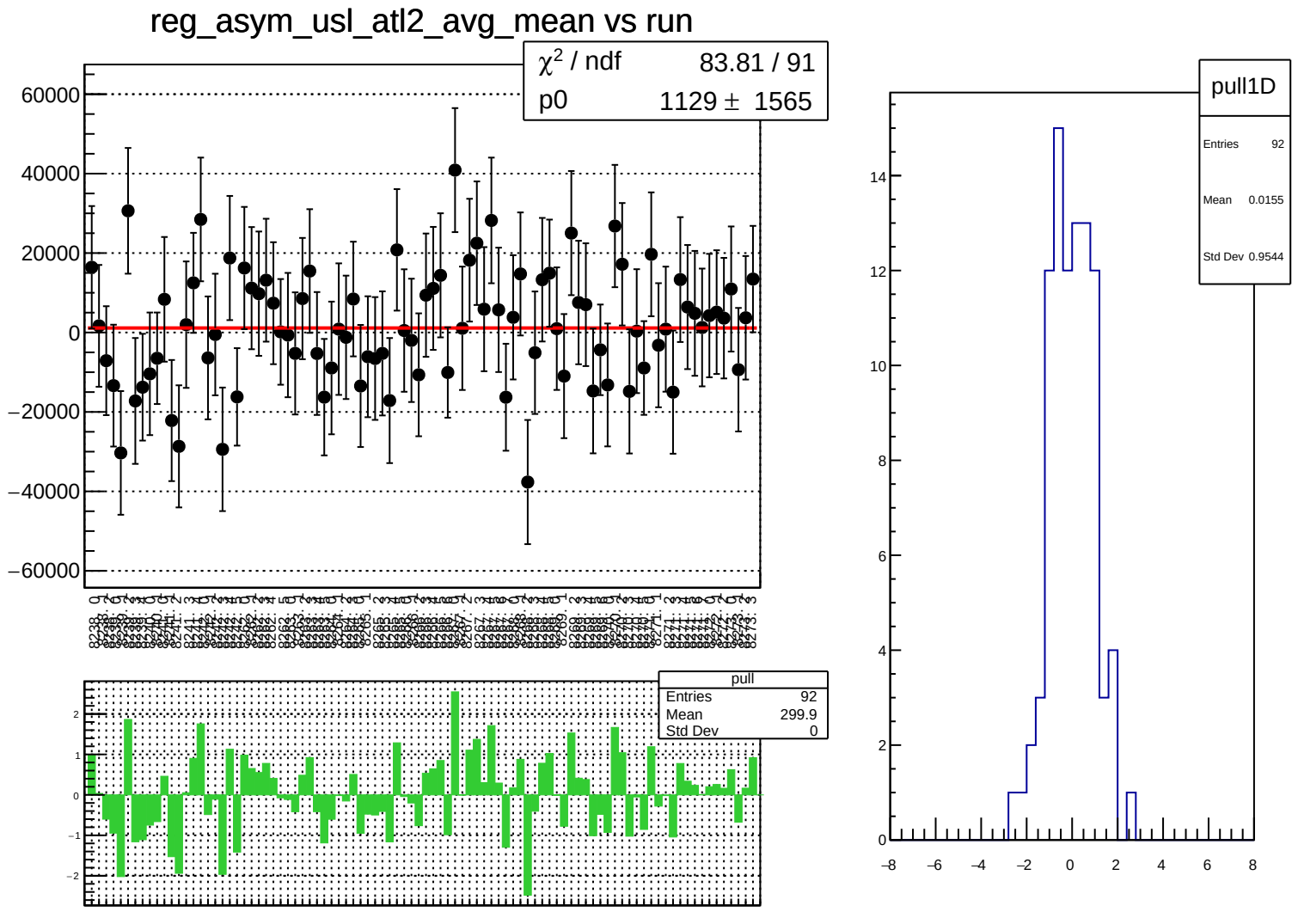

pull1D
Entries 92
Mean 0.002
Std Dev 0.9457

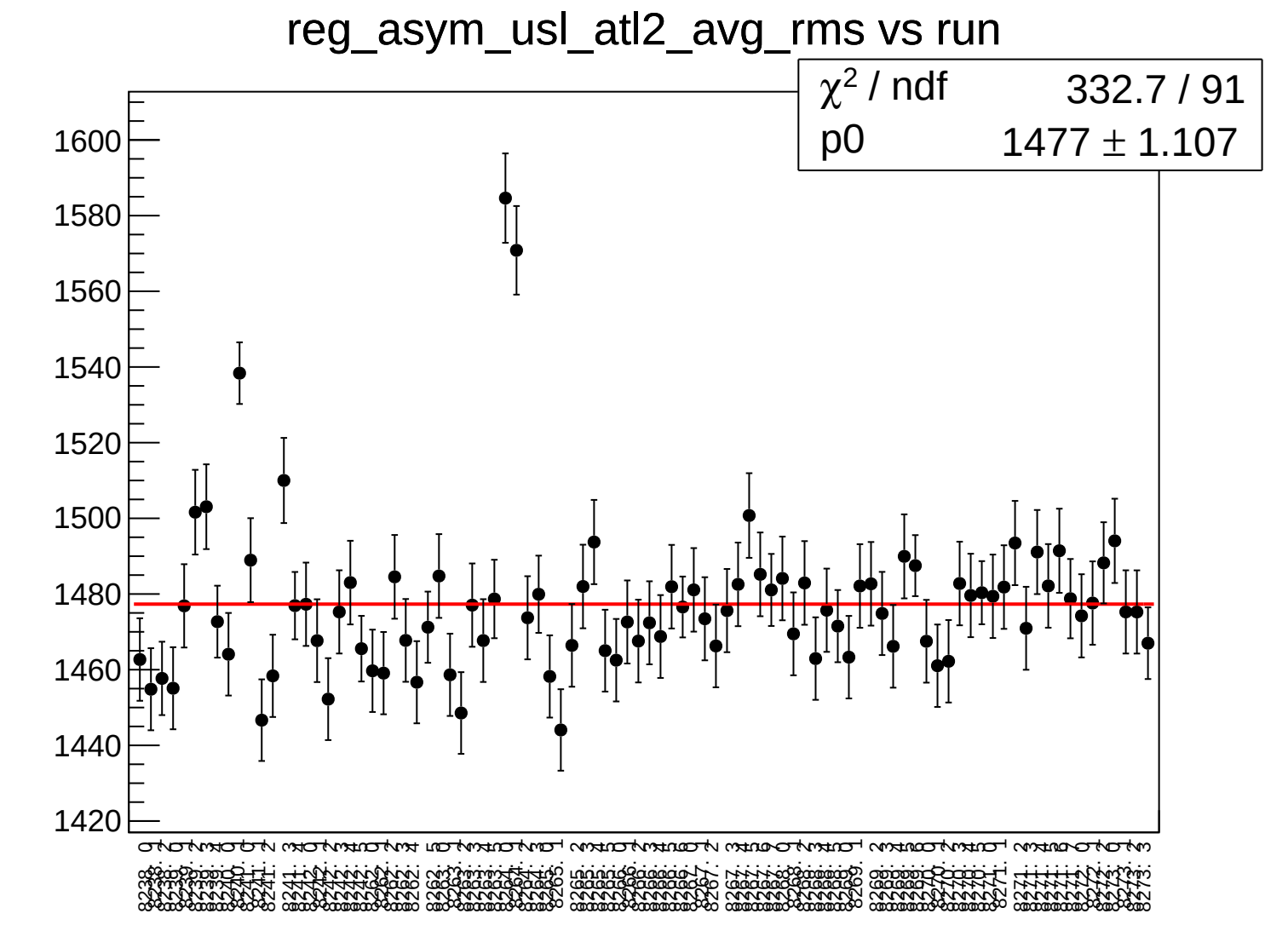

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.328e+05 / 91
p0 31.87 ± 0.0256
90
80
70
60
50
40
30
20
10

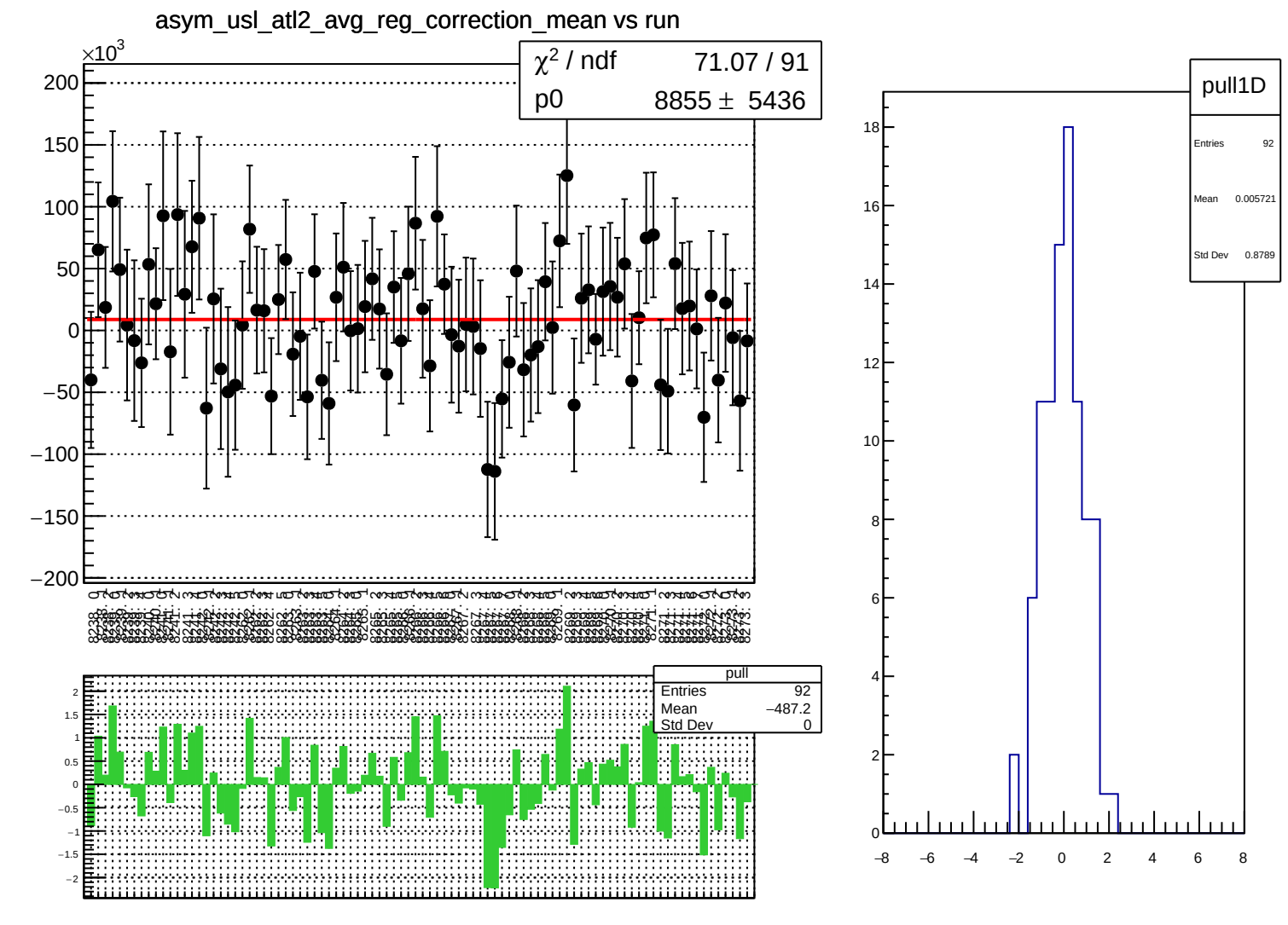

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.53 / 91
p0 −3.703e−14 ± 3.894e−14
pull
Entries 92
Mean 92.32
Std Dev 0

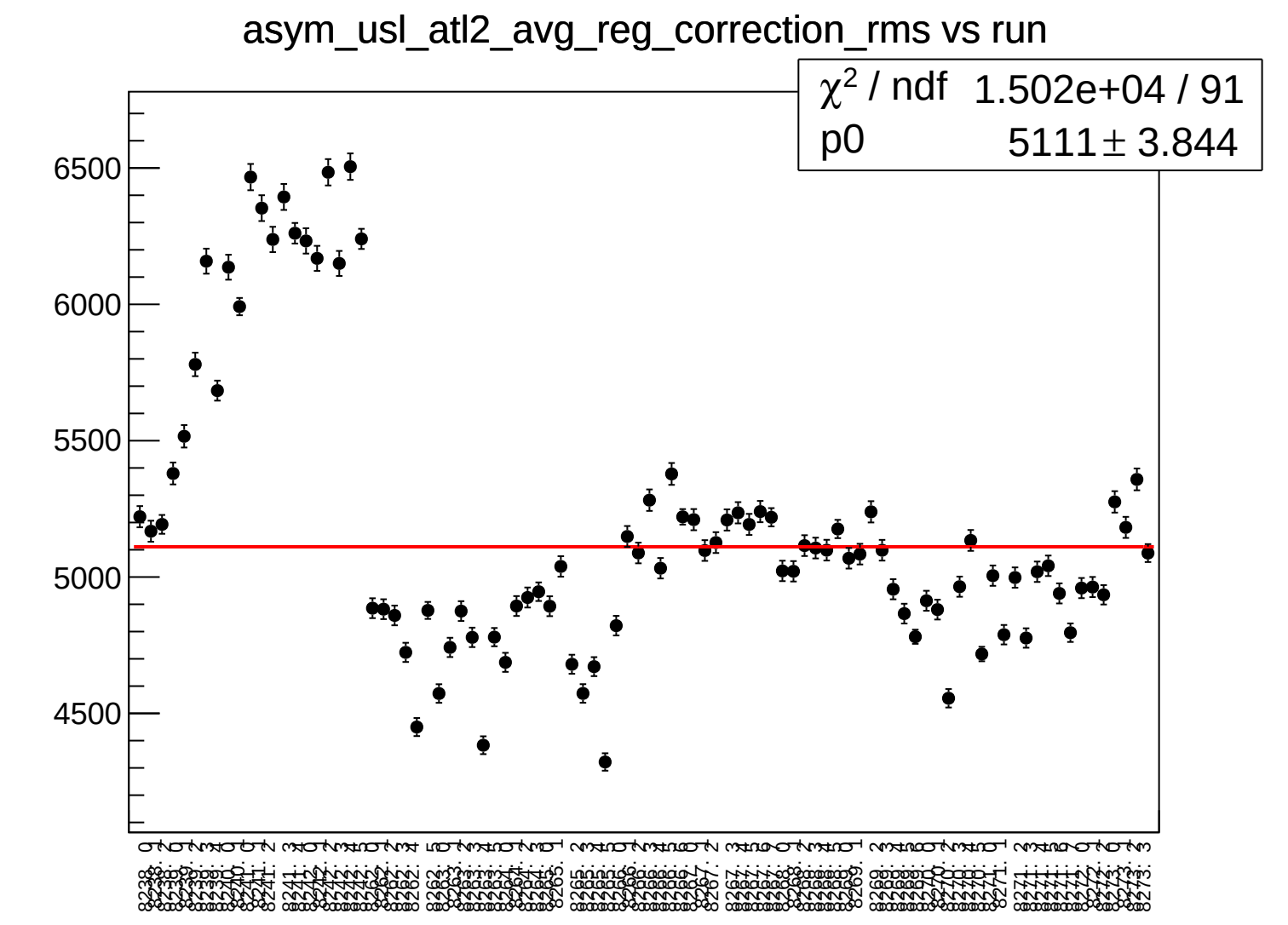

pull1D
Entries 92
Mean −0.04152
Std Dev 1.023

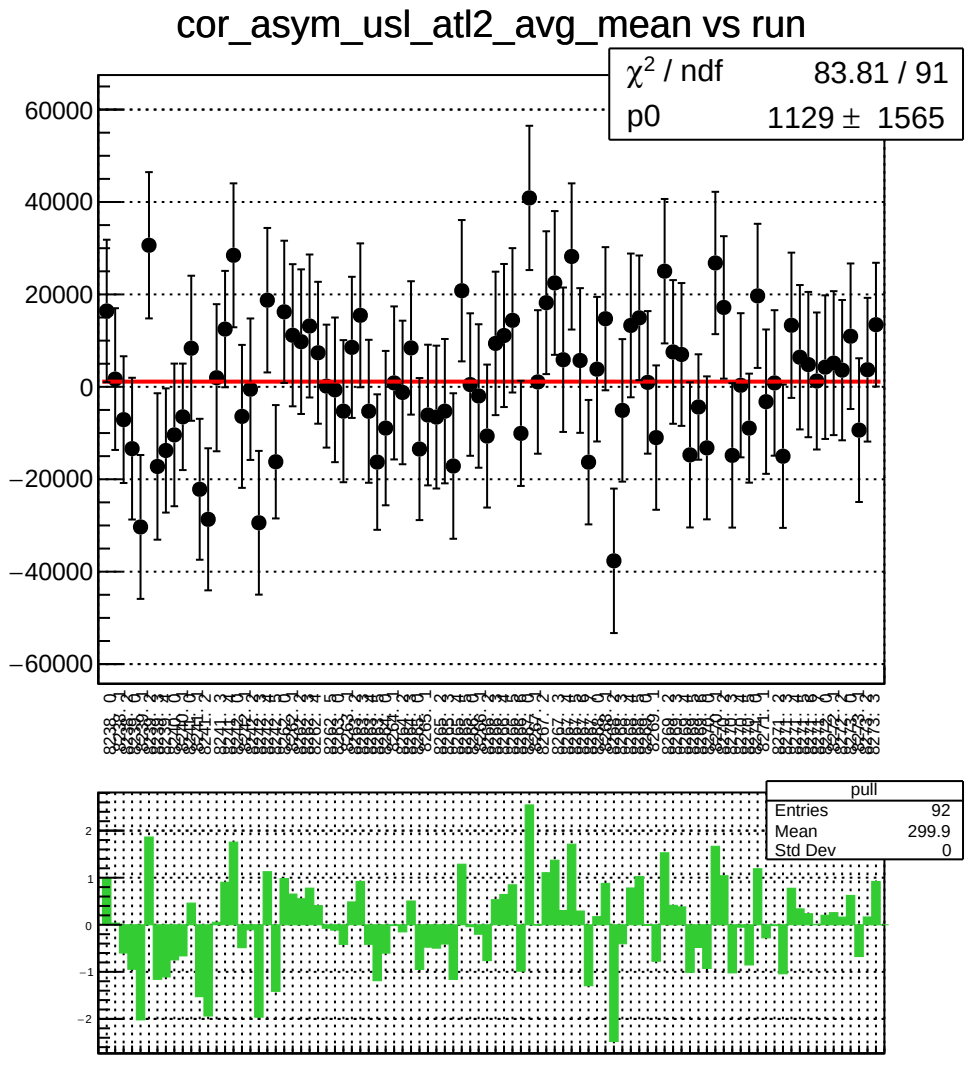

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.225e+05 / 91
p0 2.966e−11 ± 2.754e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

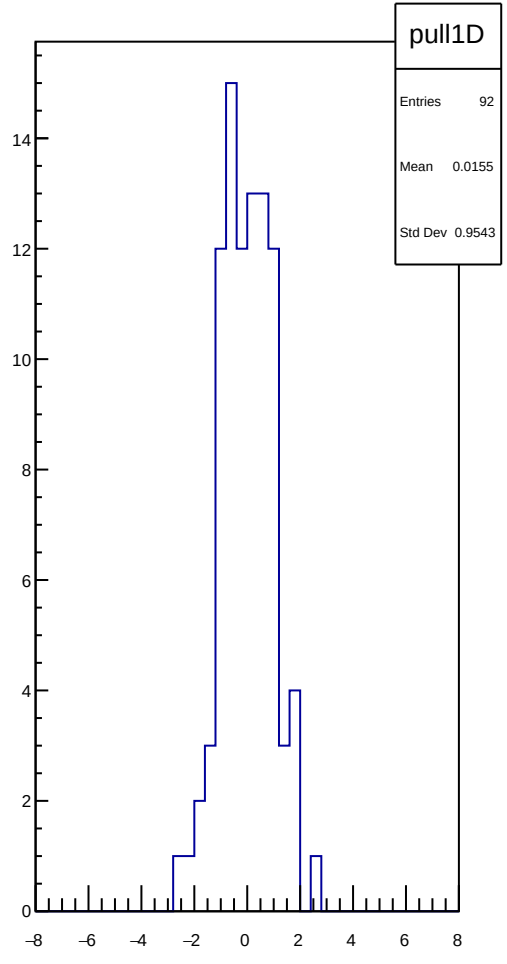

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 83.81 / 91
p0 1129 ± 1565
pull
Entries 92
Mean 299.9
Std Dev 0
pull1D
Entries 92
Mean 0.0155
Std Dev 0.9544

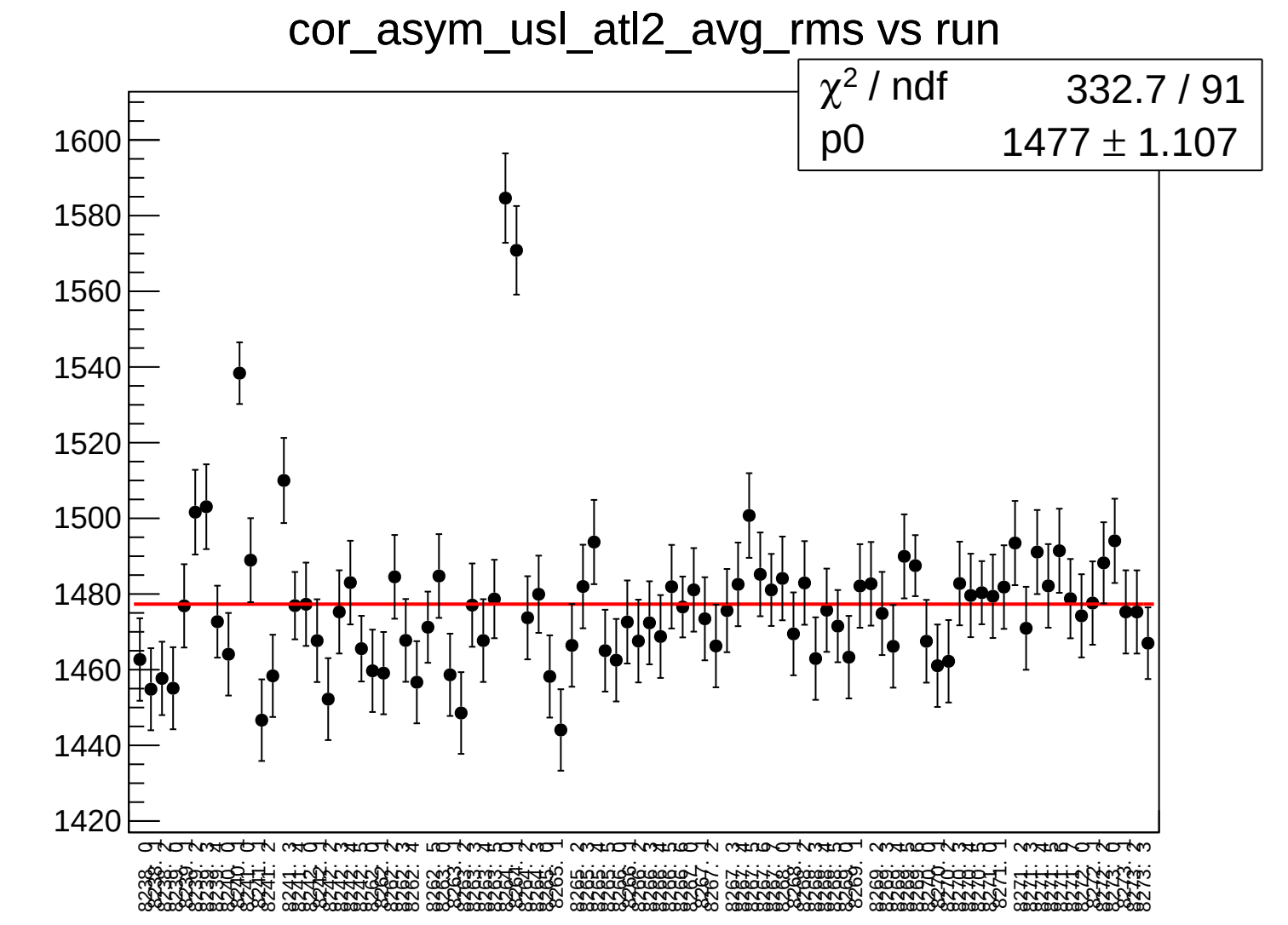

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 332.7 / 91
p0 1477 ± 1.107
1600
1580
1560
1540
1520
1500
1480
1460
1440
1420

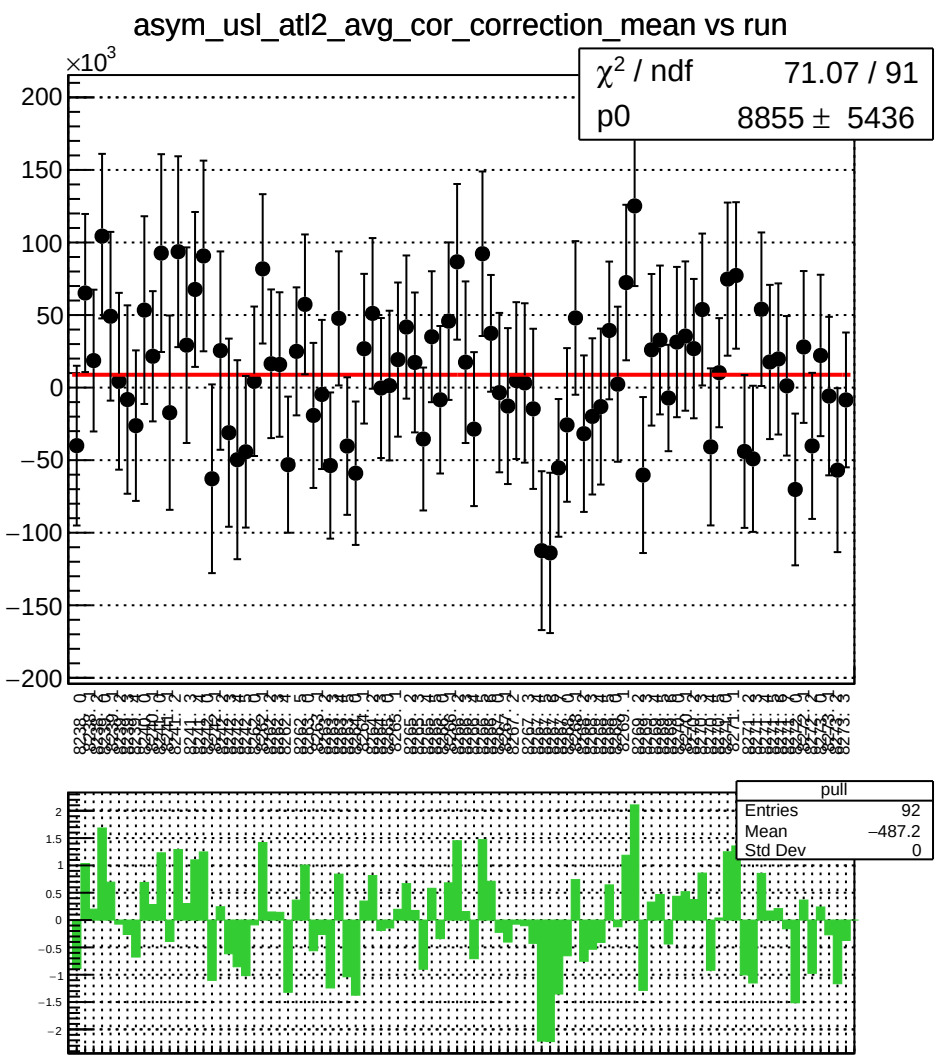

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 71.07 / 91
p0 8855 ± 5436
pull
Entries 92
Mean −487.2
Std Dev 0
pull1D
Entries 92
Mean 0.005721
Std Dev 0.8789

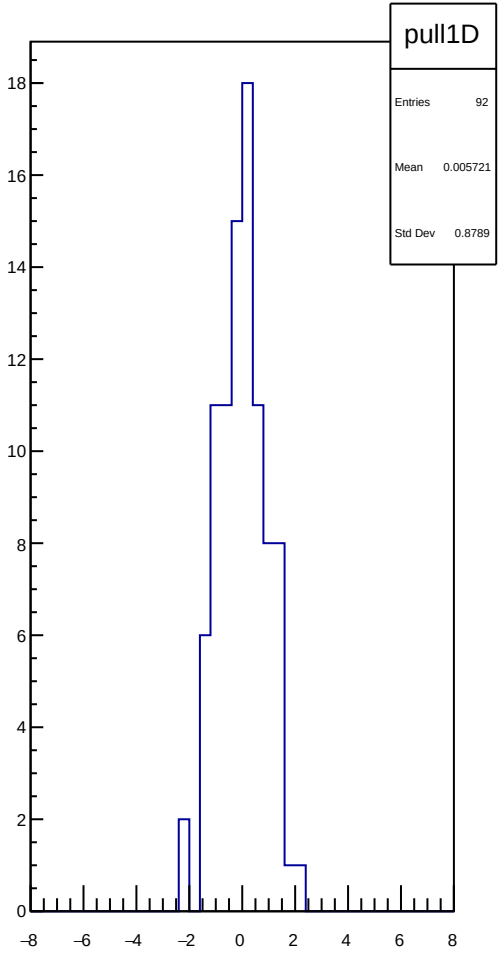

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 1.502e+04 / 91
p0 5111 ± 3.844
6500
6000
5500
5000
4500

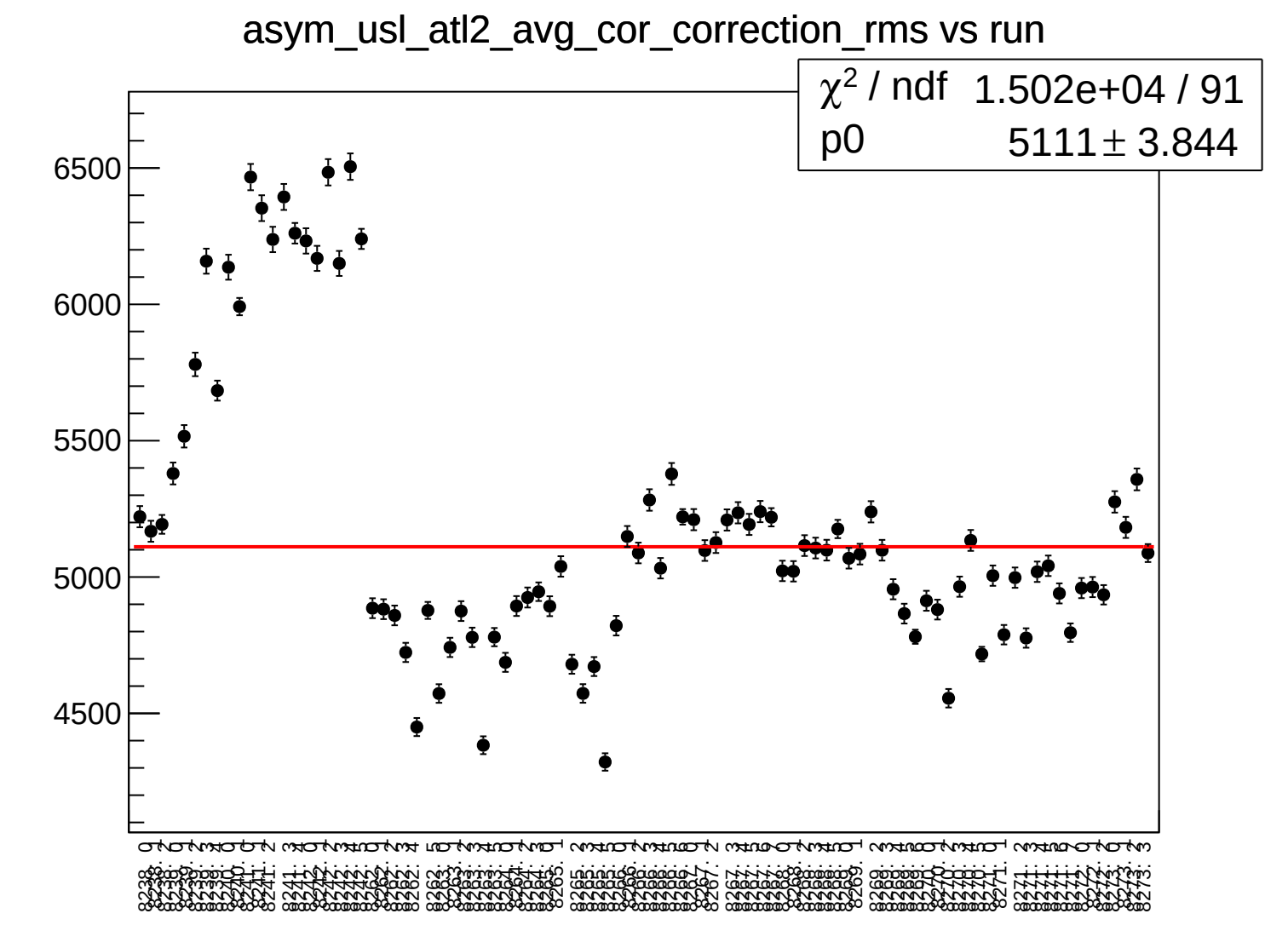

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 83.81 / 91
p0 1129 ± 1565
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 299.9
Std Dev 0
2
1
0
−1
−2

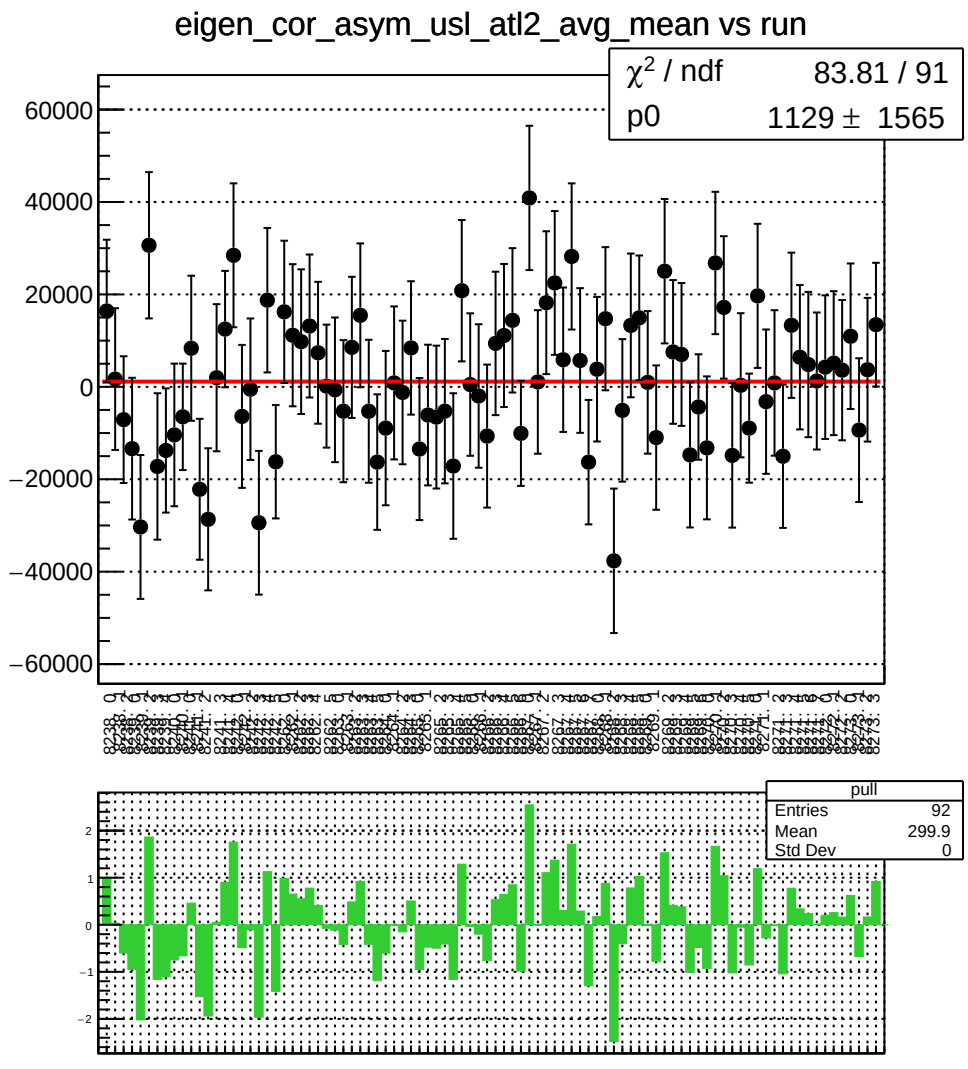

pull1D
Entries 92
Mean 0.0155
Std Dev 0.9543
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

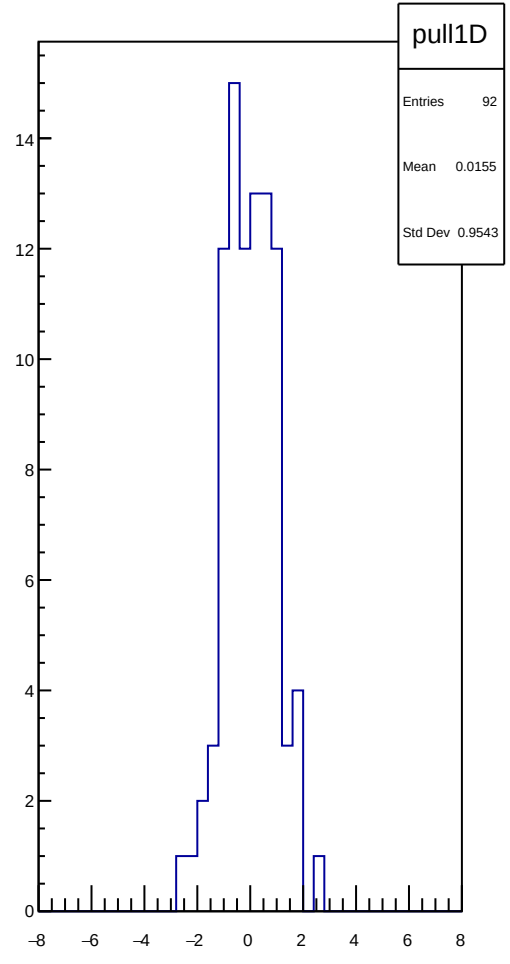

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 332.7 / 91
p0 1477 ± 1.107
1600
1580
1560
1540
1520
1500
1480
1460
1440
1420

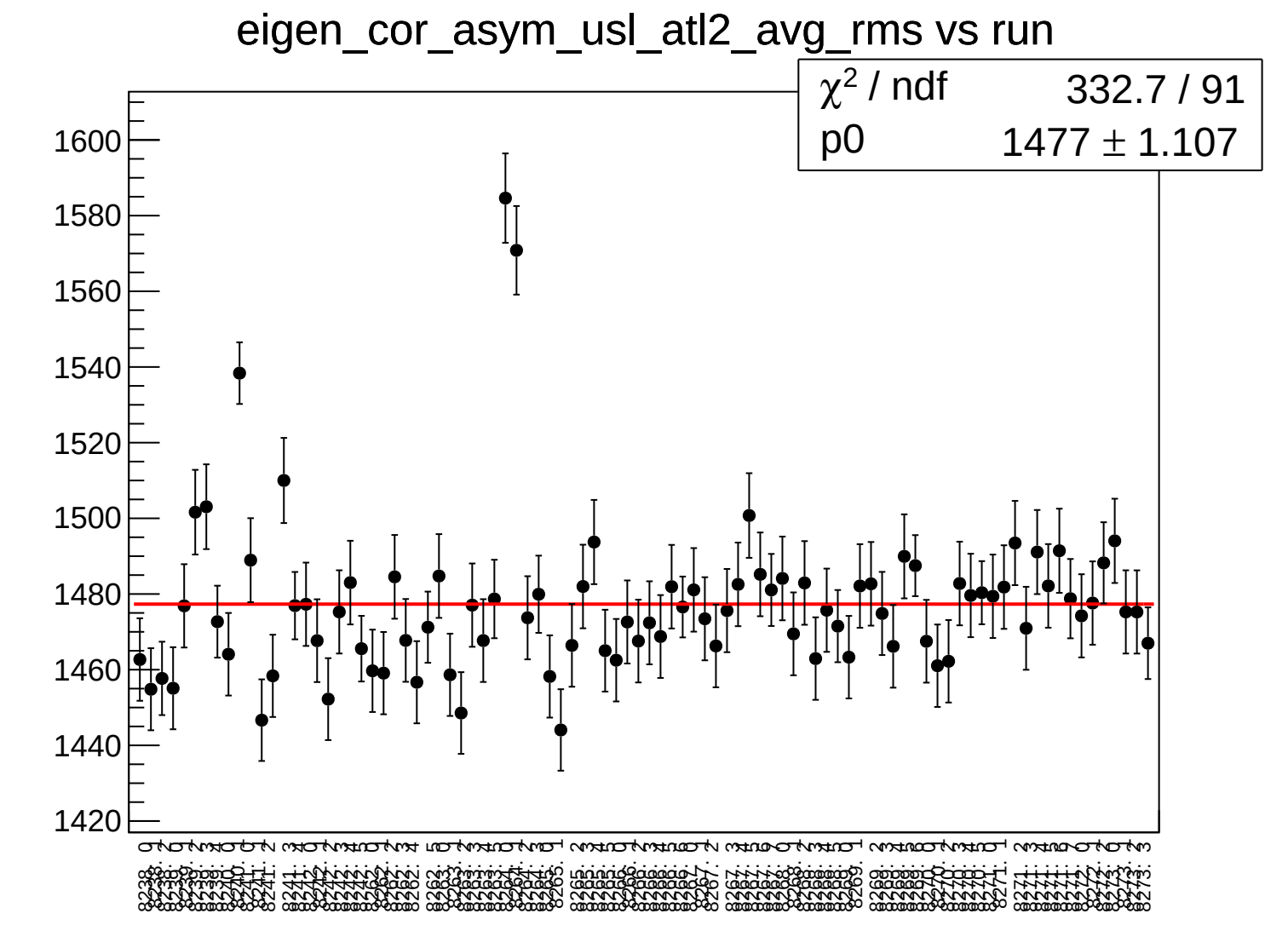

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 71.07 / 91
p0 8855 ± 5436
pull
Entries 92
Mean −487.2
Std Dev 0

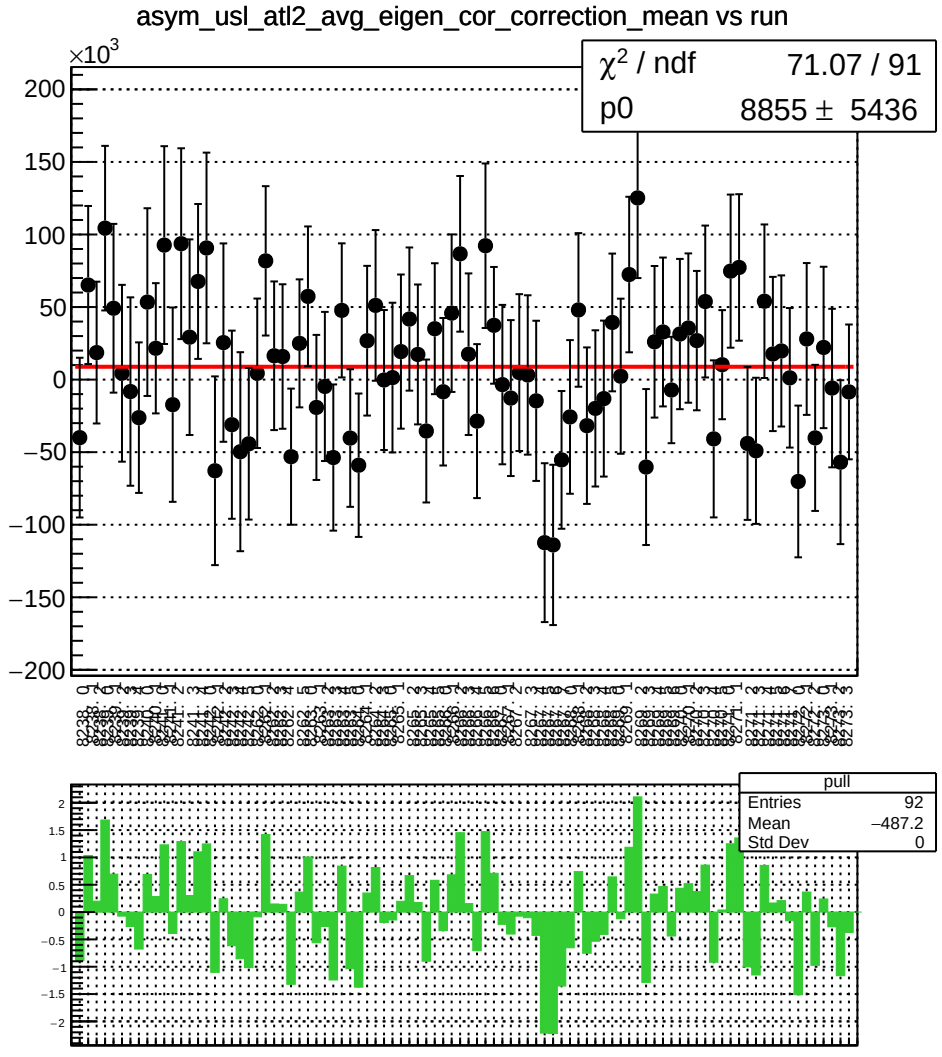

pull1D
Entries 92
Mean 0.005721
Std Dev 0.8789

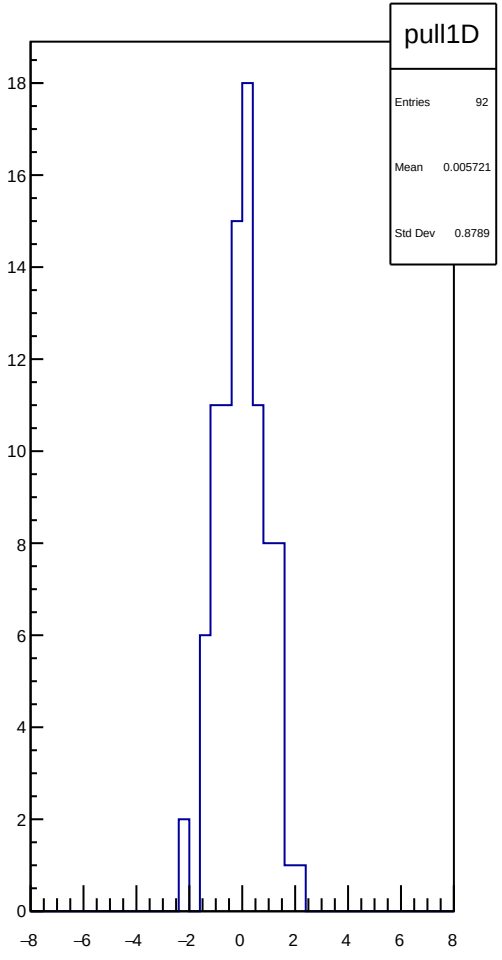

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 1.502e+04 / 91
p0 5111 ± 3.844
6500
6000
5500
5000
4500

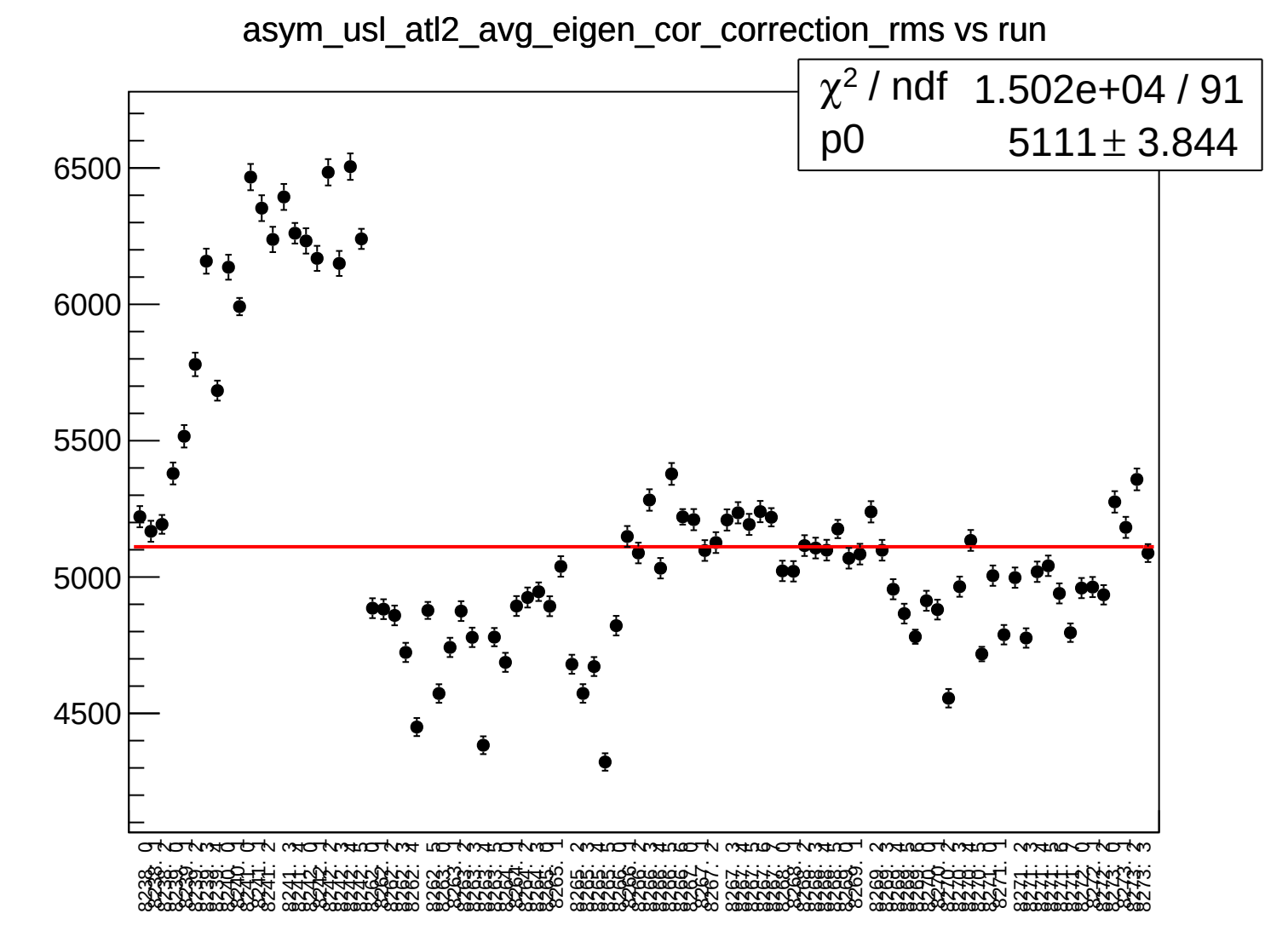

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 83.81 / 91
p0 1129 ± 1565
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 299.9
Std Dev 0
2
1
0
−1
−2

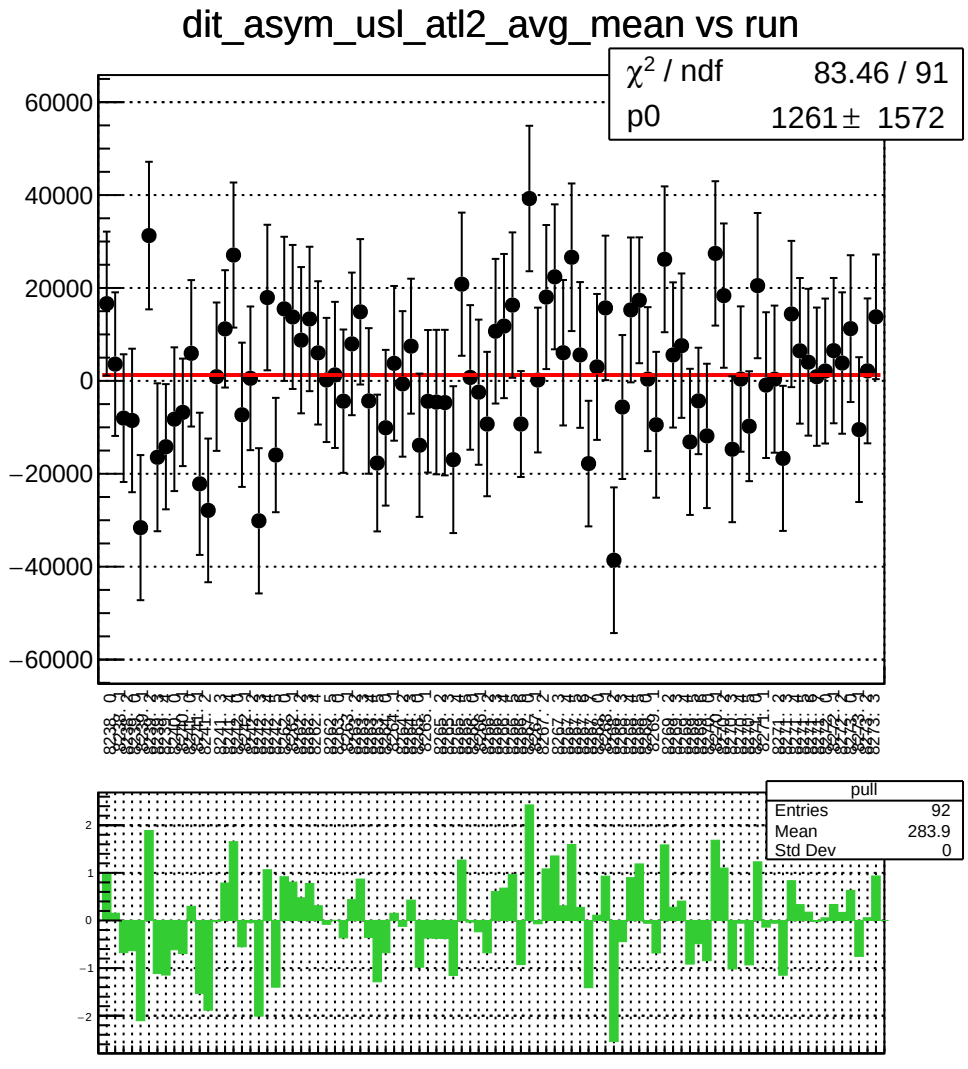

pull1D
Entries 92
Mean 0.0155
Std Dev 0.9543
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

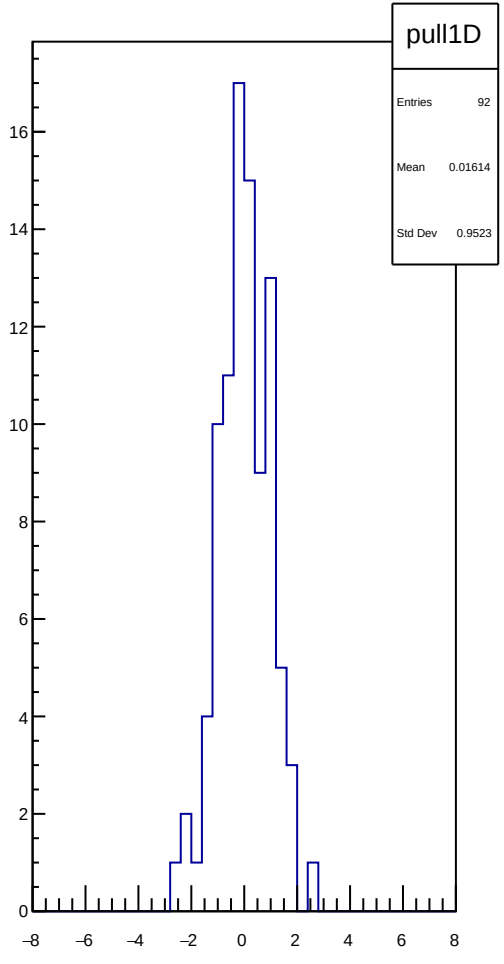

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 332.7 / 91
p0 1477 ± 1.107
1600
1580
1560
1540
1520
1500
1480
1460
1440
1420

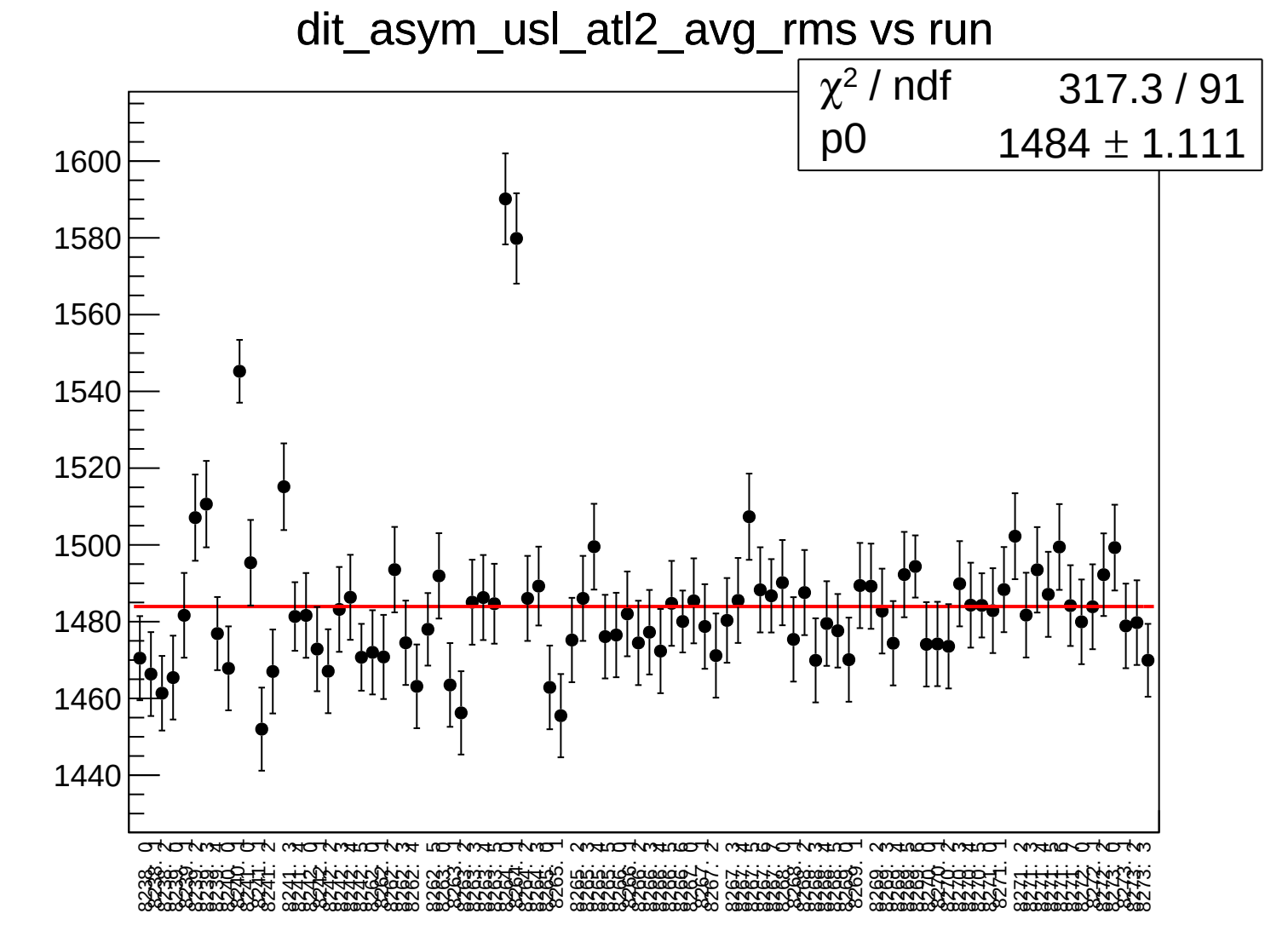

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 71.07 / 91
p0 8855 ± 5436
pull
Entries 92
Mean −487.2
Std Dev 0

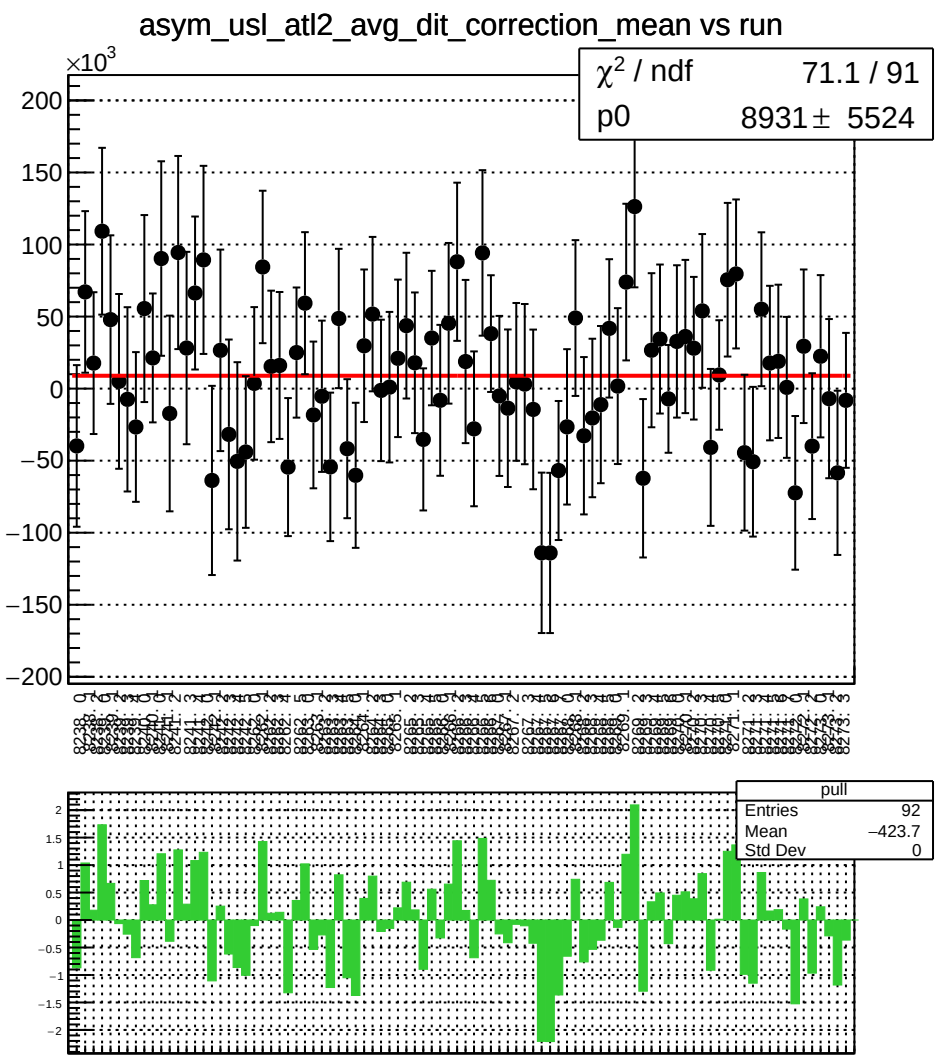

pull1D
Entries 92
Mean 0.005721
Std Dev 0.8789

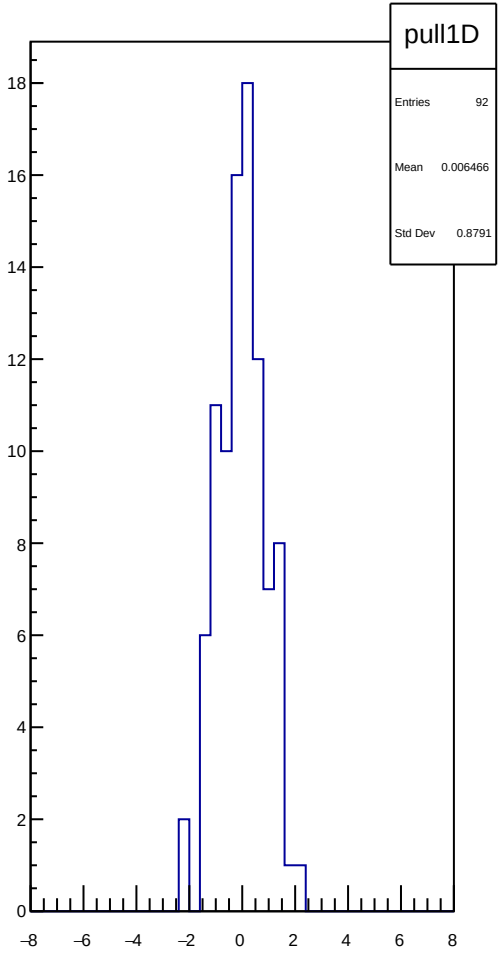

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.502e+04 / 91
p0 5111 ± 3.844
6500
6000
5500
5000
4500

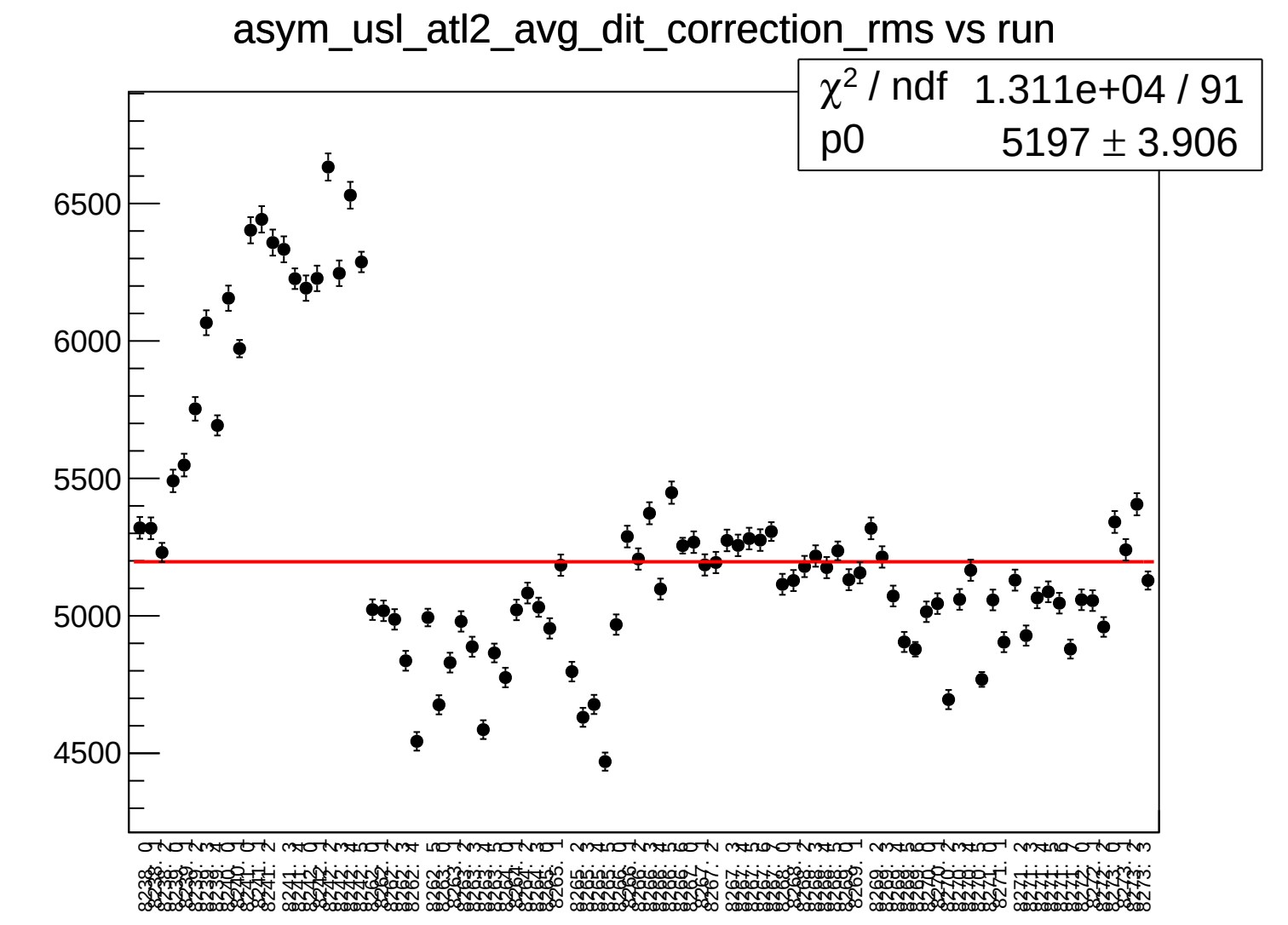

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 83.46 / 91
p0 1261 ± 1572
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 283.9
Std Dev 0
2
1
0
−1
−2

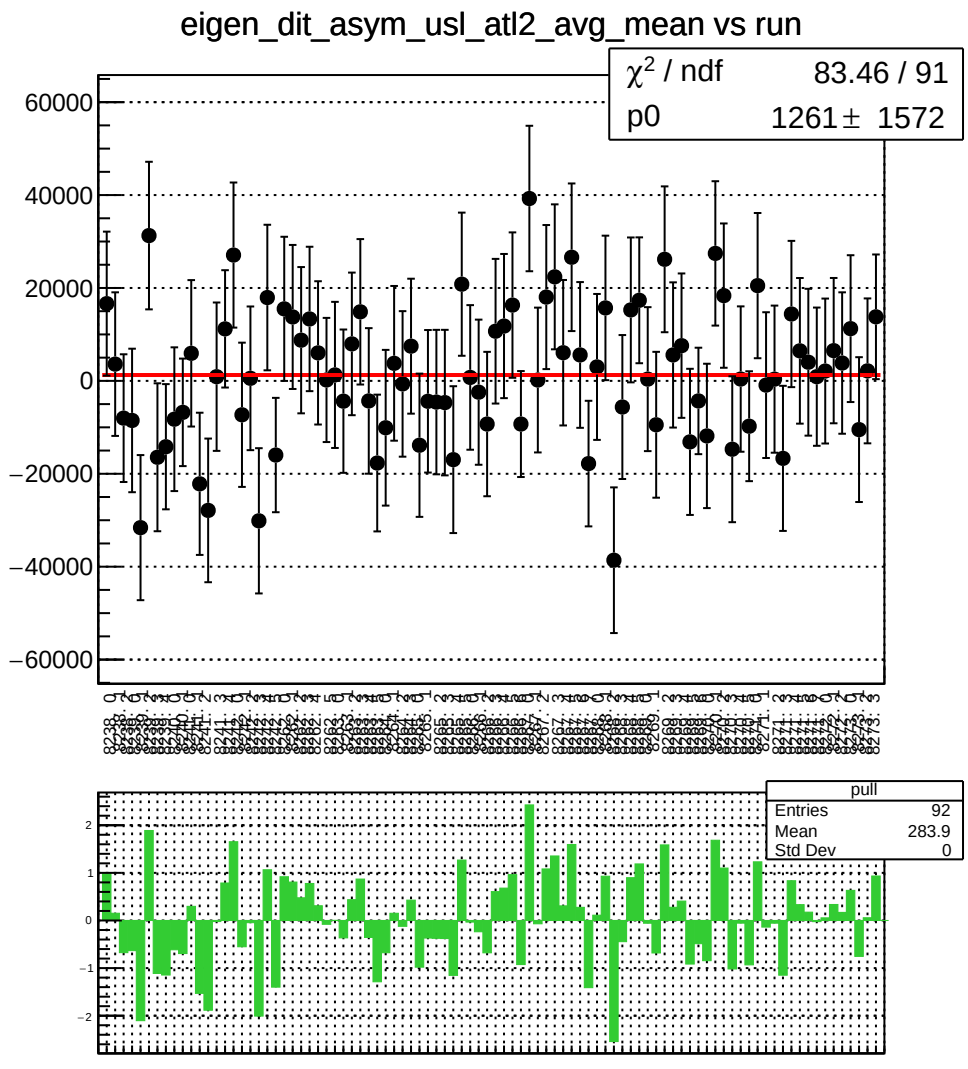

pull1D
Entries 92
Mean 0.01614
Std Dev 0.9523
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

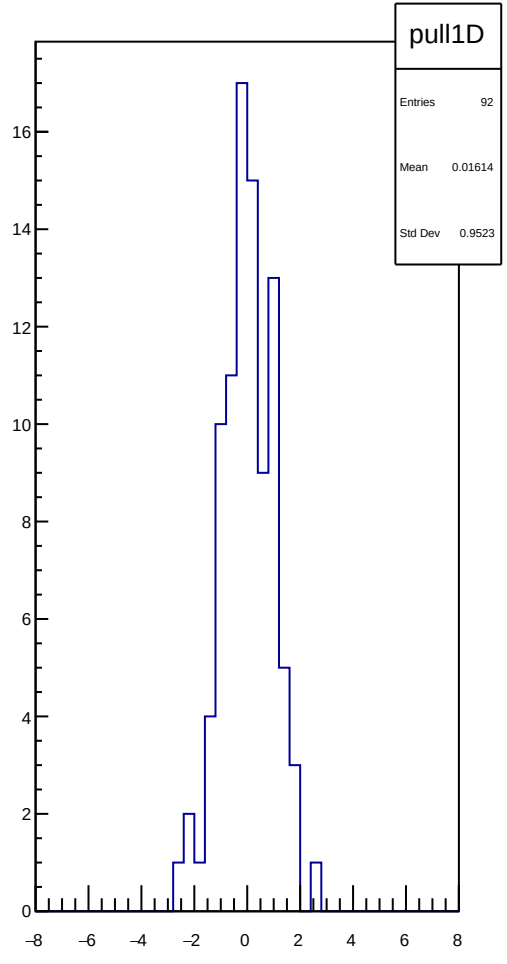

dit_asym_usl_atl2_avg_rms vs run
$\chi^2$ / ndf 317.3 / 91
p0 1484 ± 1.111
1600
1580
1560
1540
1520
1500
1480
1460
1440

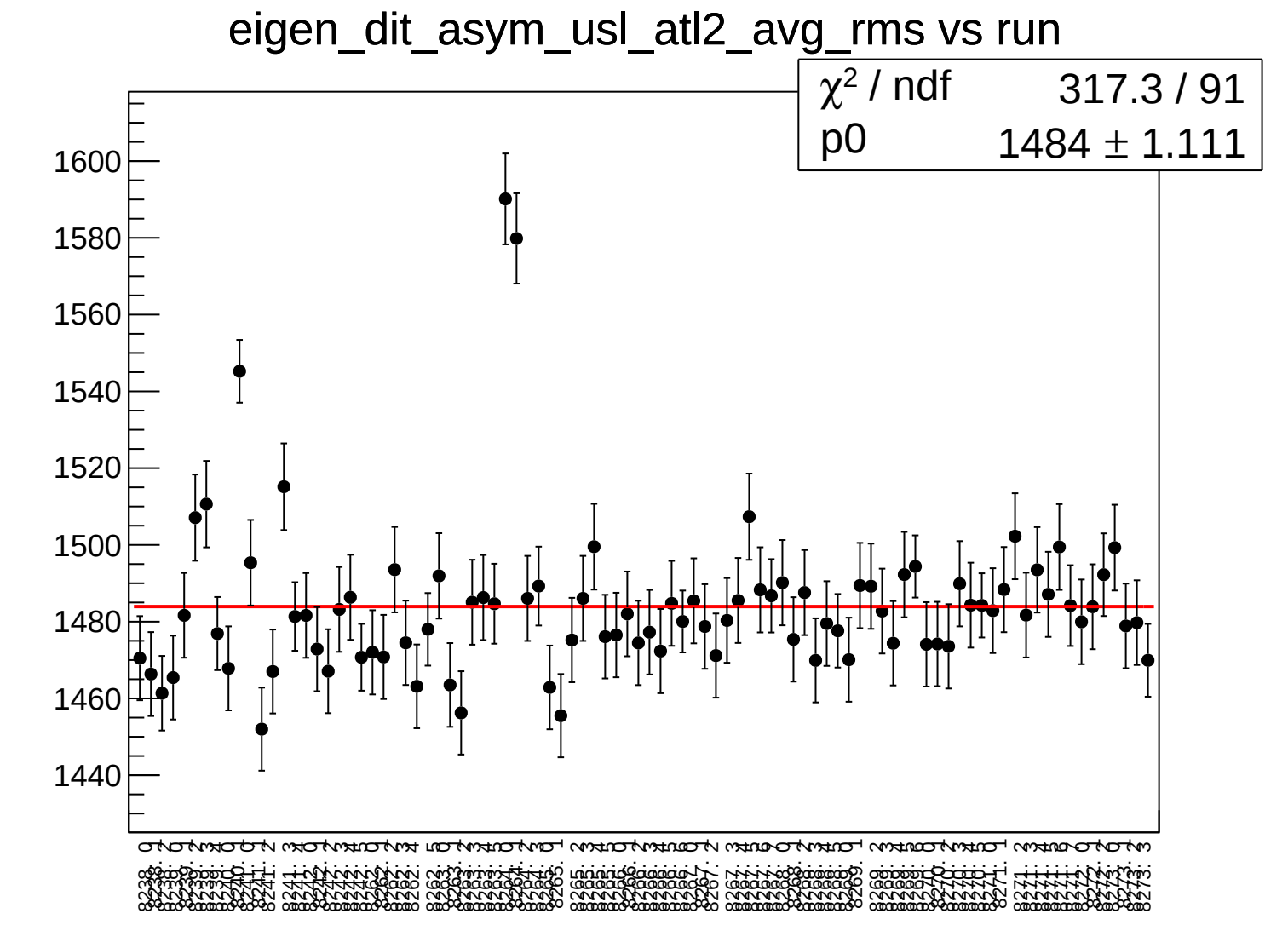

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 71.1 / 91
p0 8931 ± 5524
pull
Entries 92
Mean −423.7
Std Dev 0

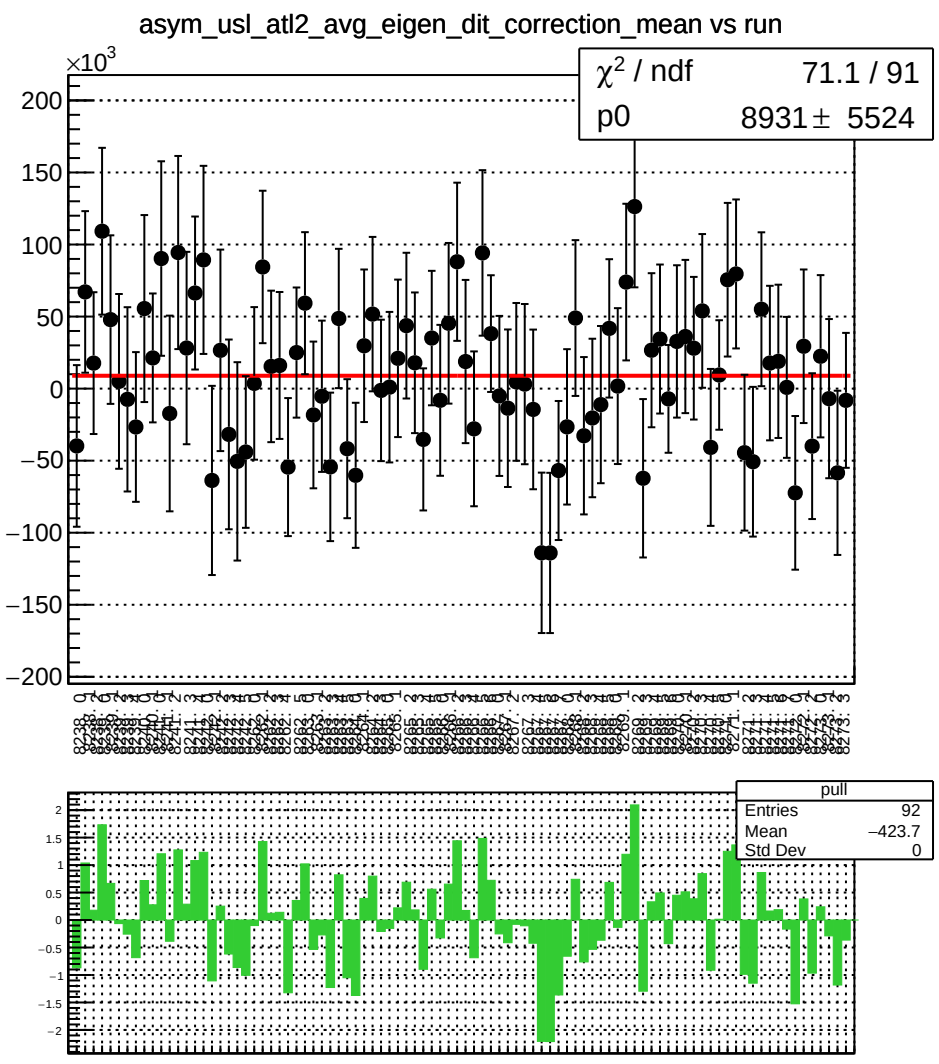

pull1D
Entries 92
Mean 0.006466
Std Dev 0.8791

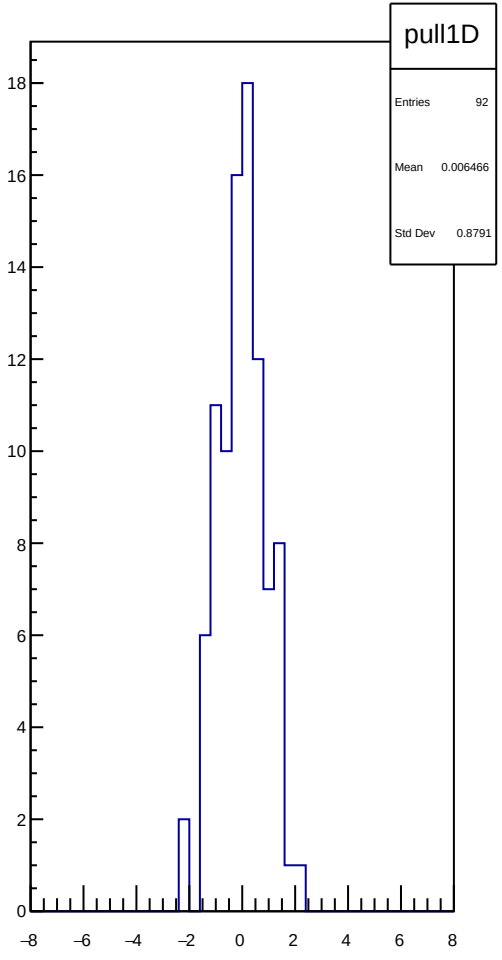

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 1.311e+04 / 91
p0 5197 ± 3.906
6500
6000
5500
5000
4500

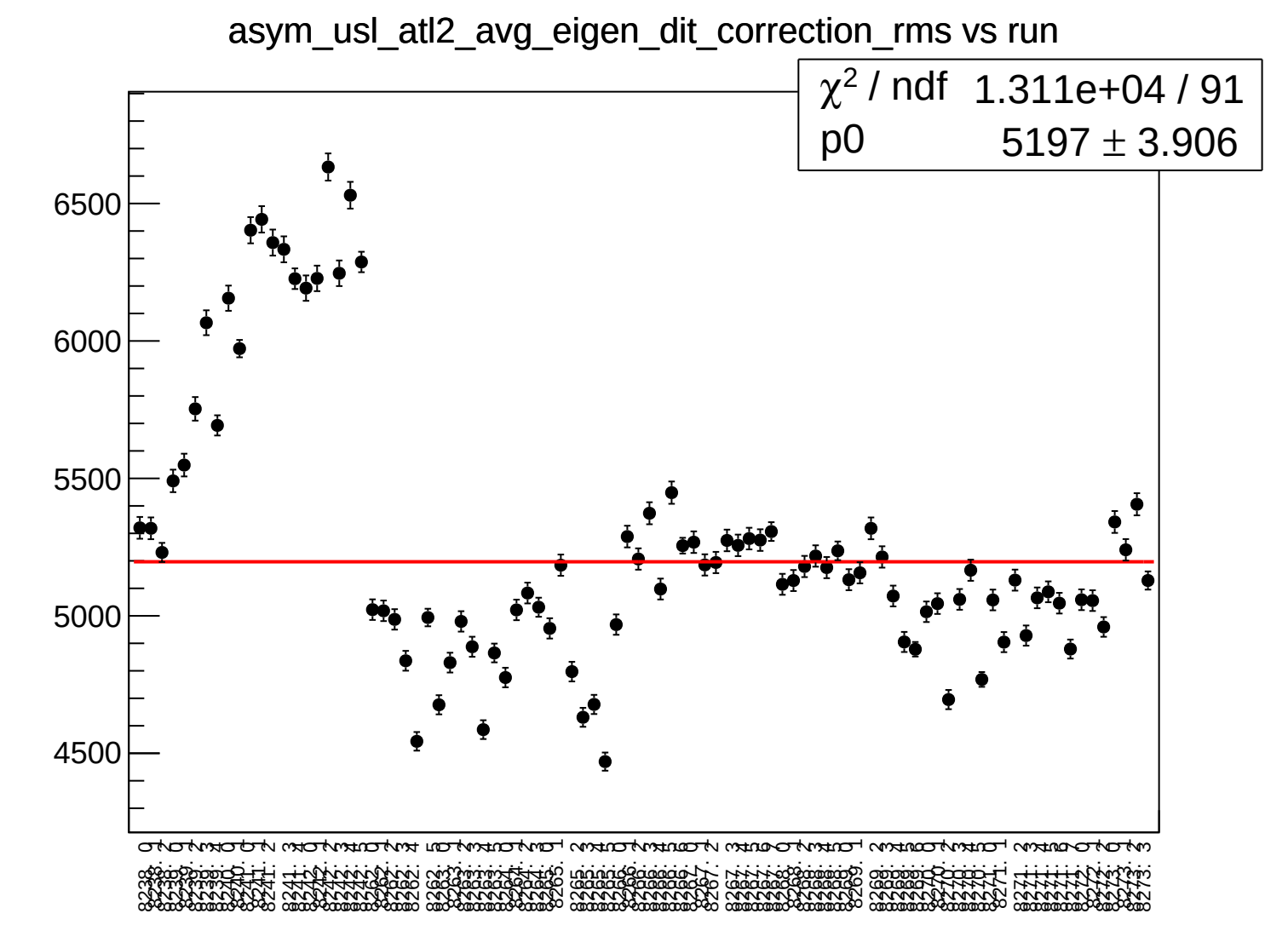

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 83.46 / 91
p0 1261 ± 1572
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 283.9
Std Dev 0
2
1
0
−1
−2

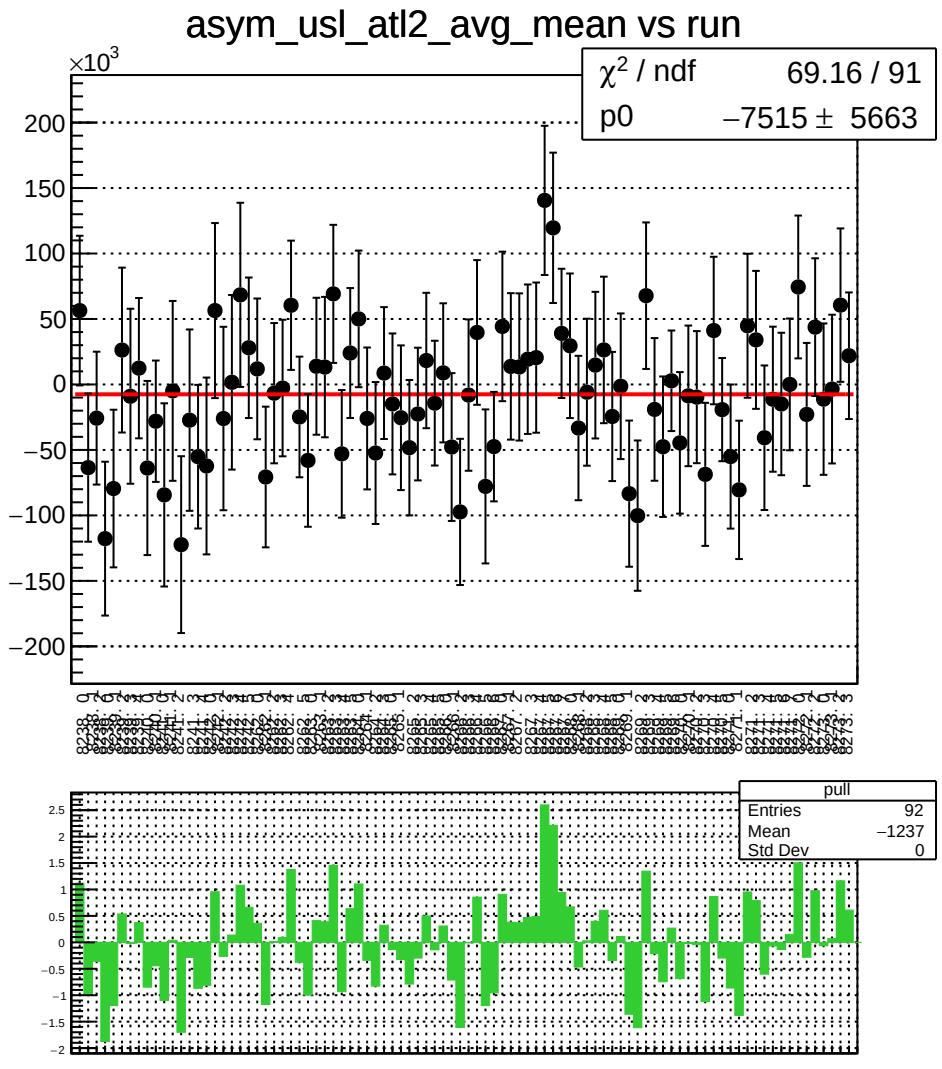

pull1D
Entries 92
Mean 0.01614
Std Dev 0.9523
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

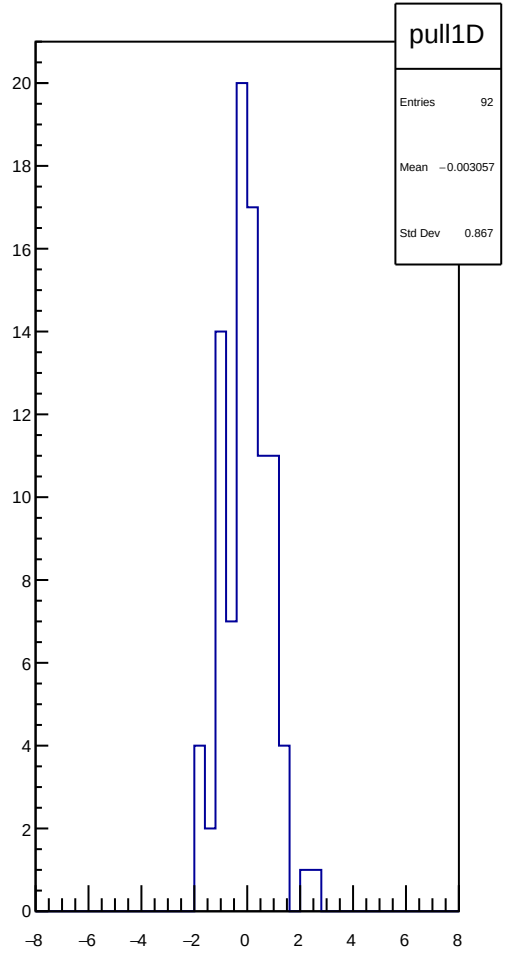

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 317.3 / 91
p0 1484 ± 1.111
1600
1580
1560
1540
1520
1500
1480
1460
1440

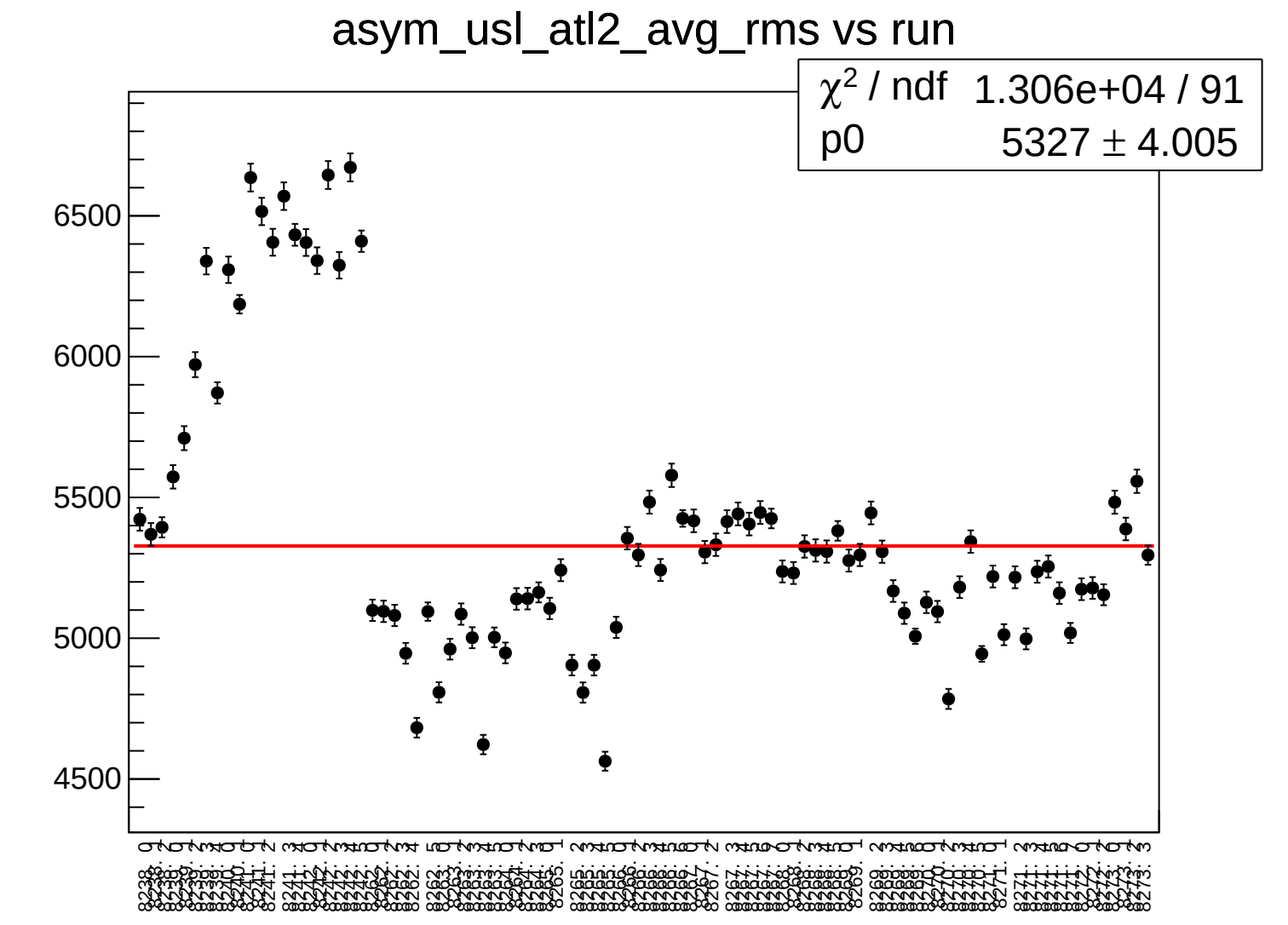

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 71.1 / 91
p0 8931 ± 5524
pull
Entries 92
Mean −423.7
Std Dev 0

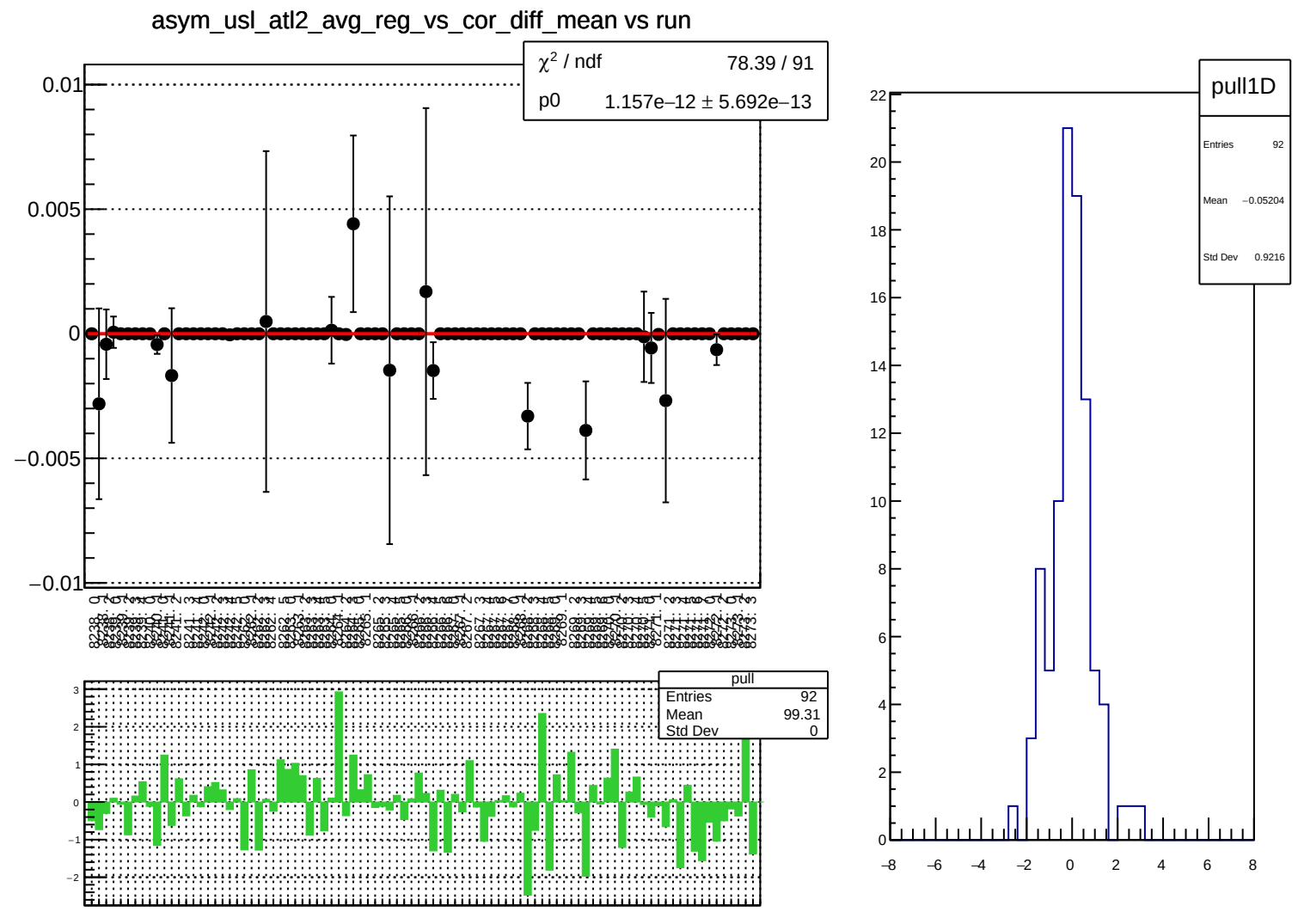

pull1D
Entries 92
Mean 0.006466
Std Dev 0.8791

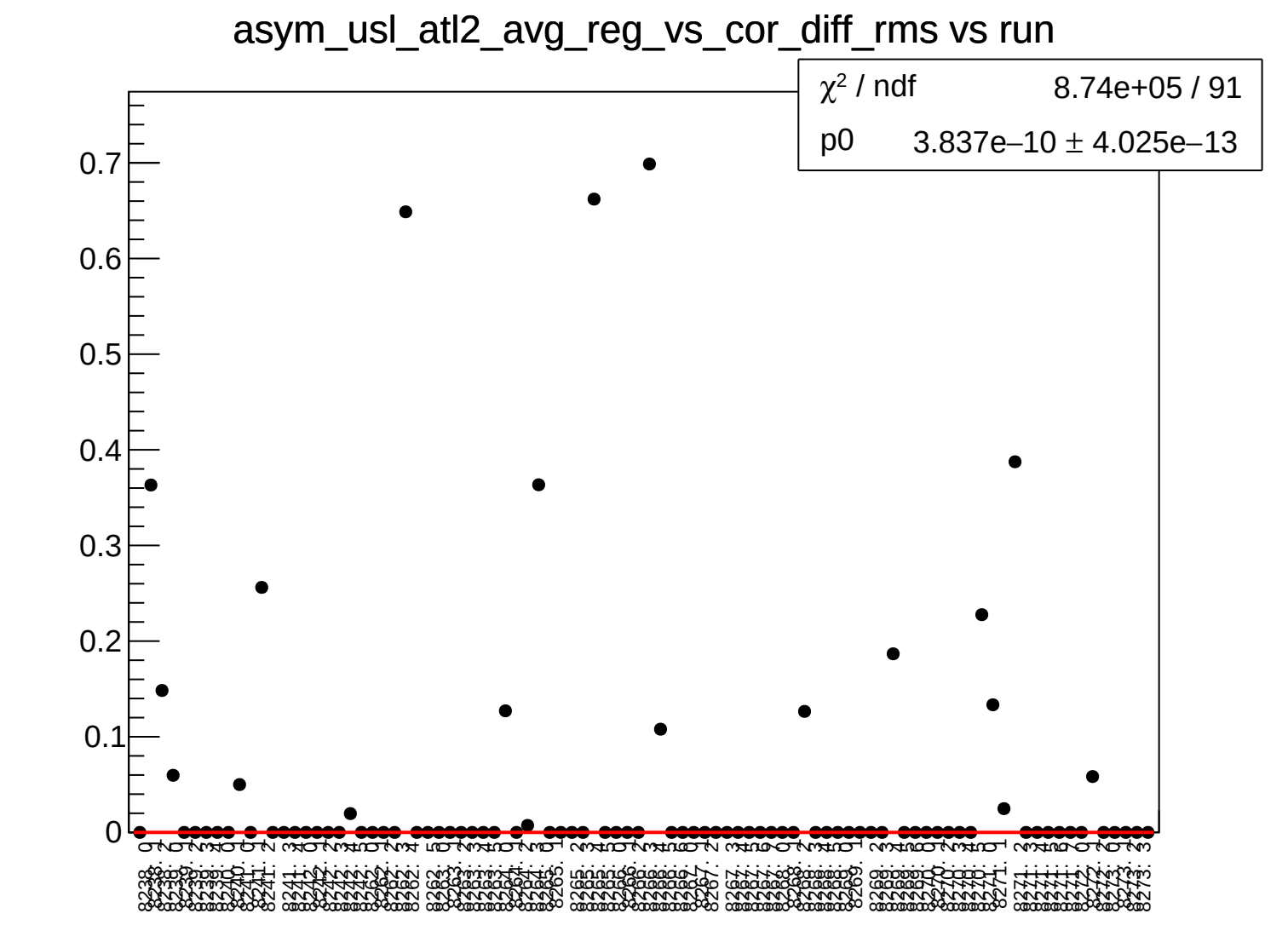

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.311e+04 / 91
p0 5197 ± 3.906
6500
6000
5500
5000
4500

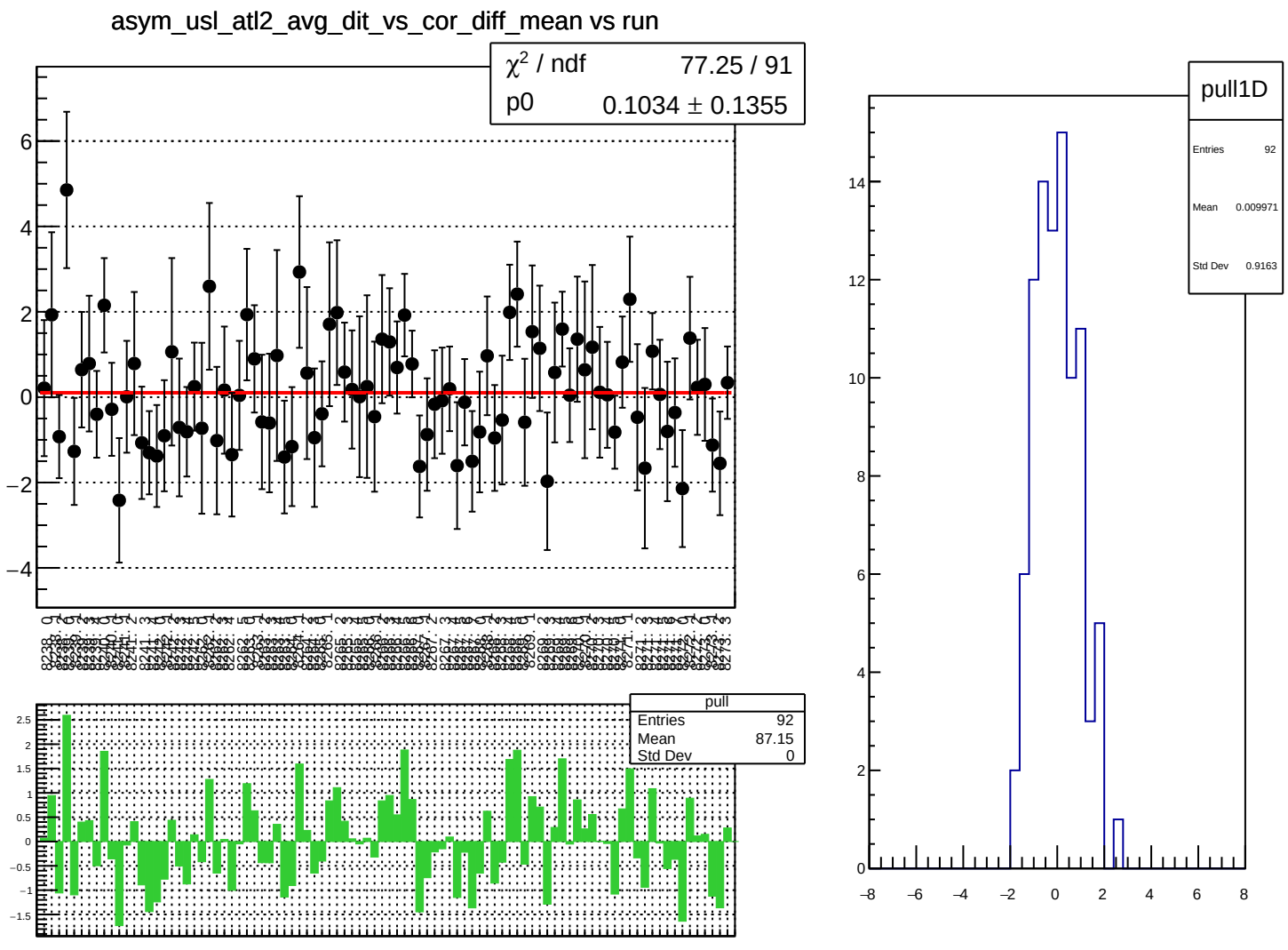

asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 69.16 / 91
p0 −7515 ± 5663
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −1237
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

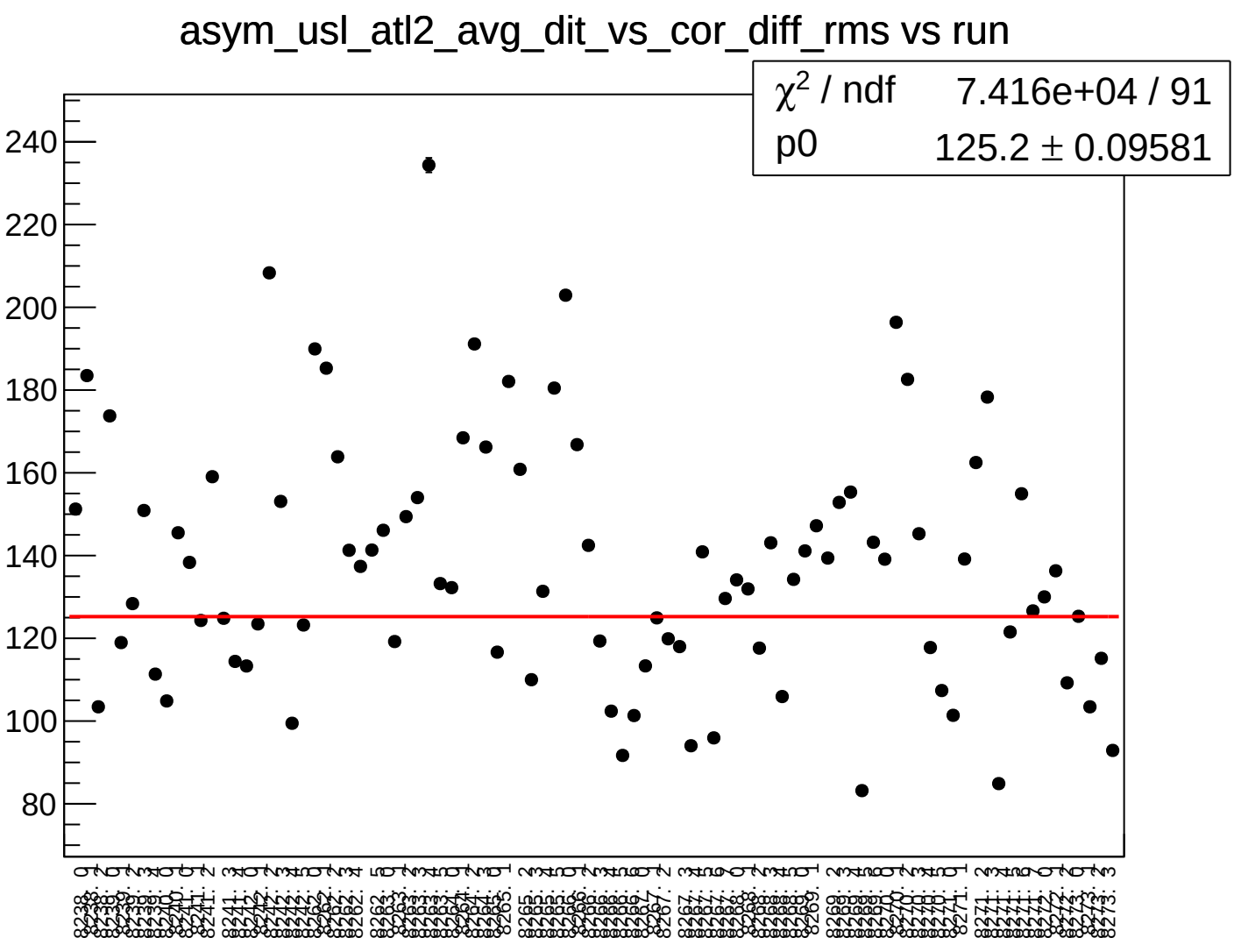

pull1D
Entries 92
Mean −0.003057
Std Dev 0.867
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

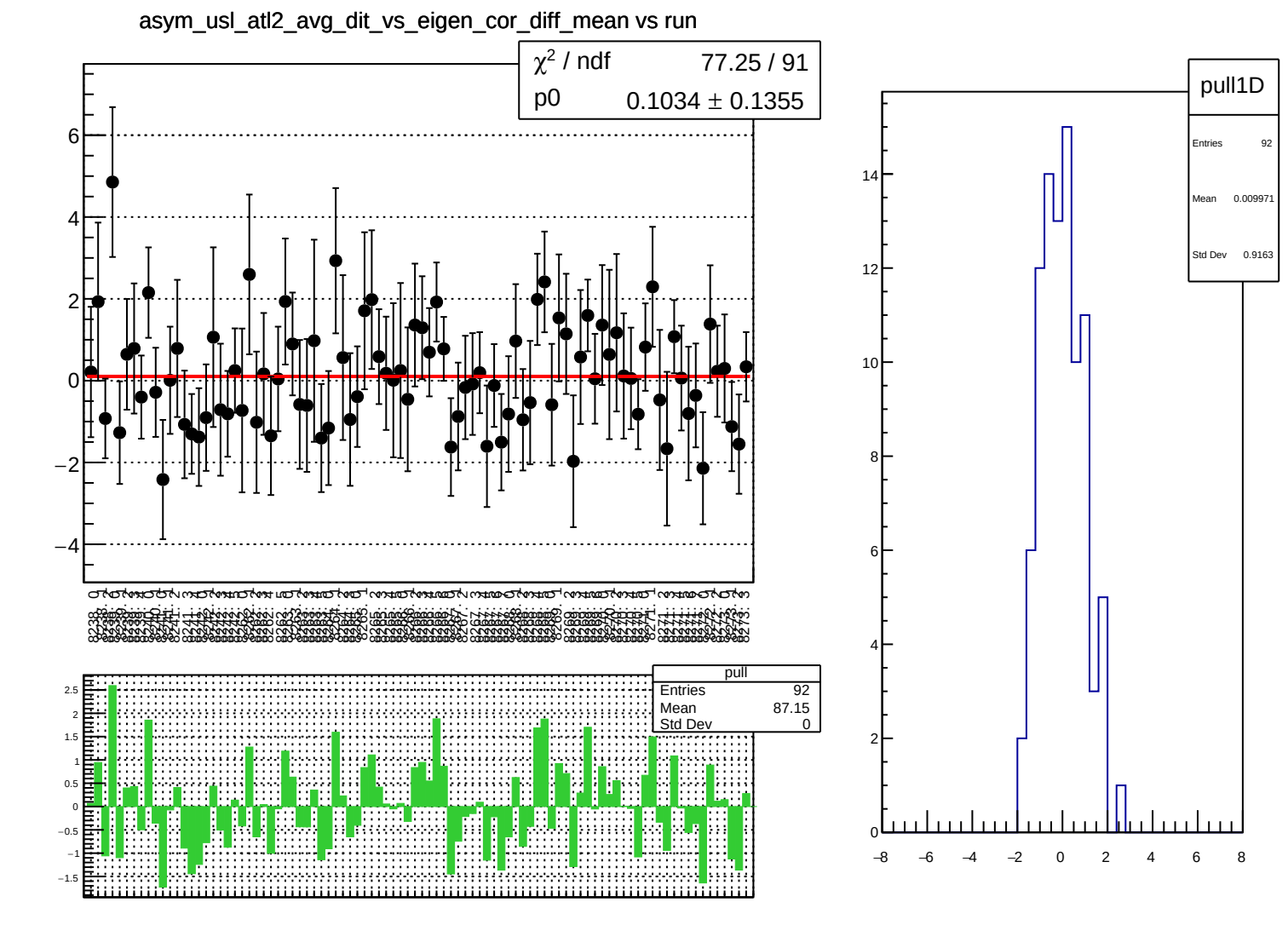

asym_usl_atl2_avg_rms vs run
χ² / ndf 1.306e+04 / 91
p0 5327 ± 4.005
6500
6000
5500
5000
4500

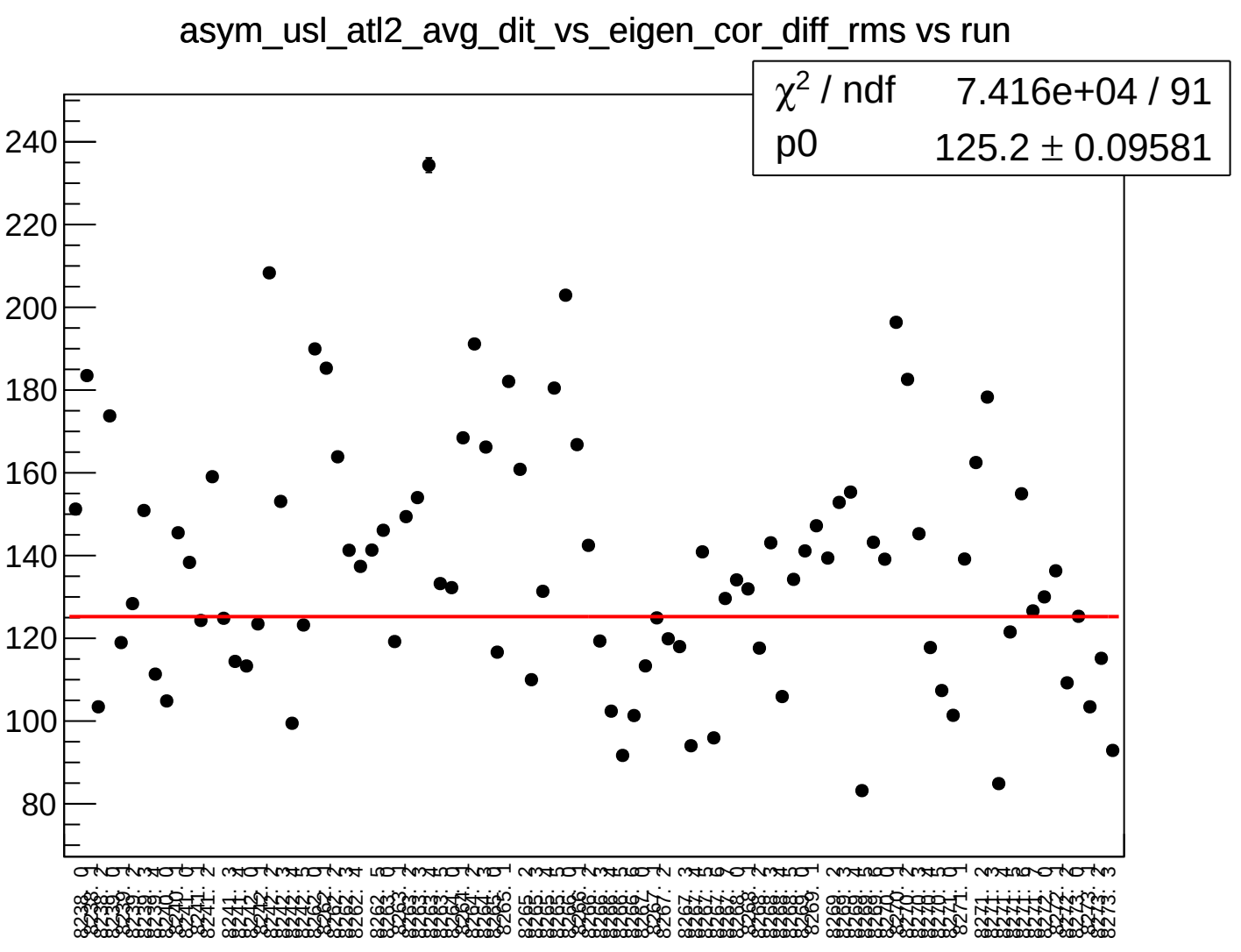

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.39 / 91
p0 1.157e−12 ± 5.692e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 92
Mean 99.31
Std Dev 0
pull1D
Entries 92
Mean −0.05204
Std Dev 0.9216

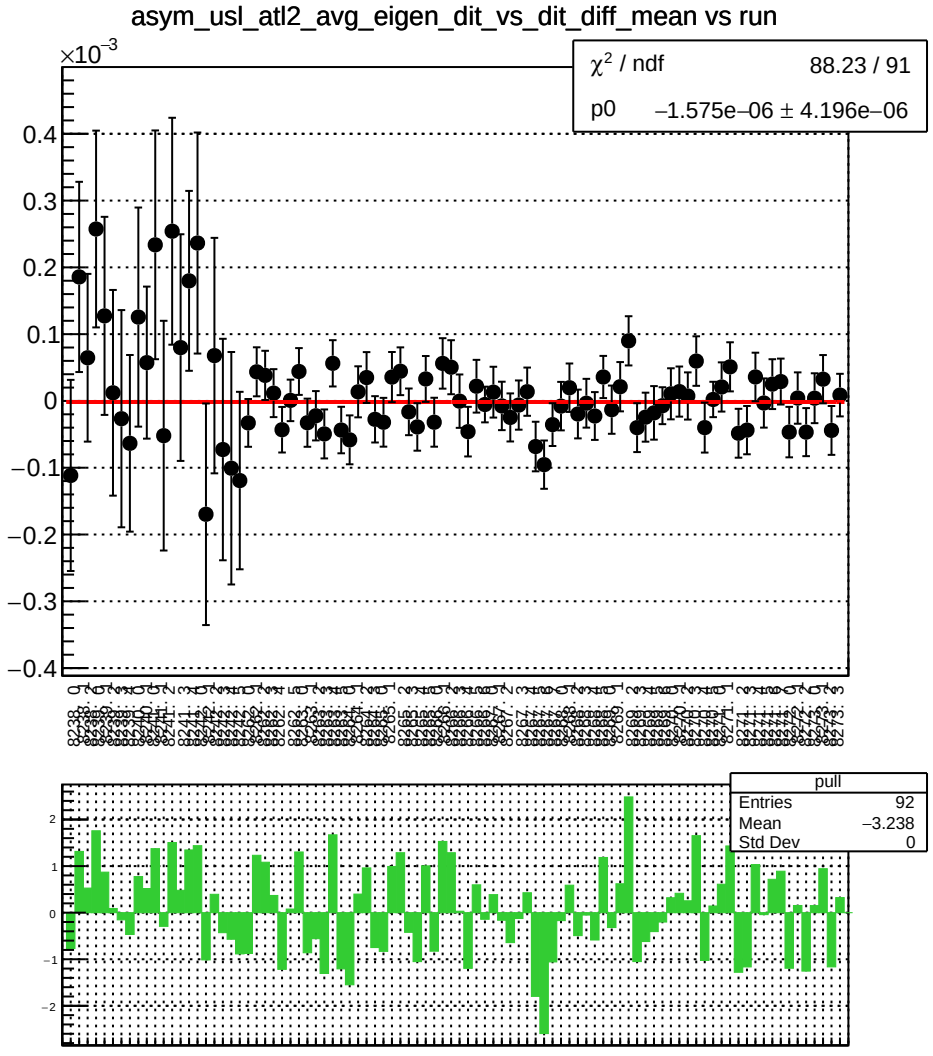

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.74e+05 / 91
p0 3.837e−10 ± 4.025e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

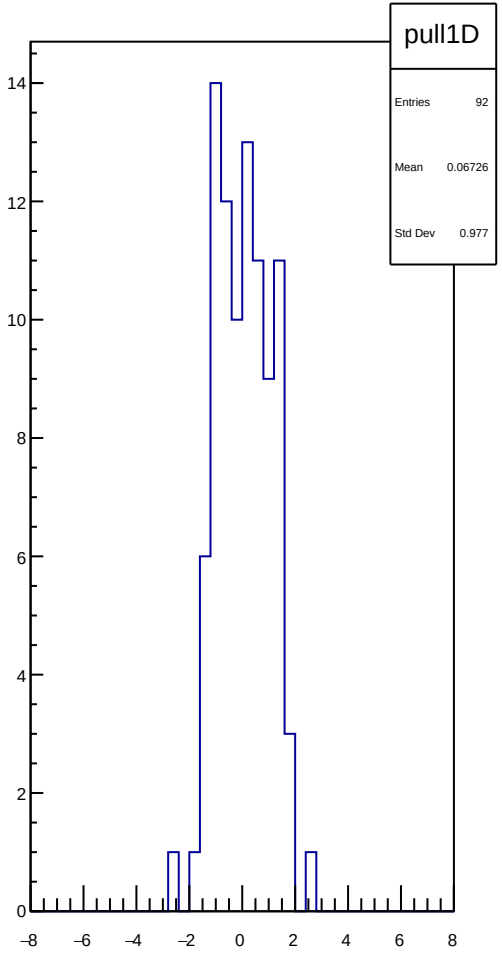

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.25 / 91
p0 0.1034 ± 0.1355
pull
Entries 92
Mean 87.15
Std Dev 0
pull1D
Entries 92
Mean 0.009971
Std Dev 0.9163

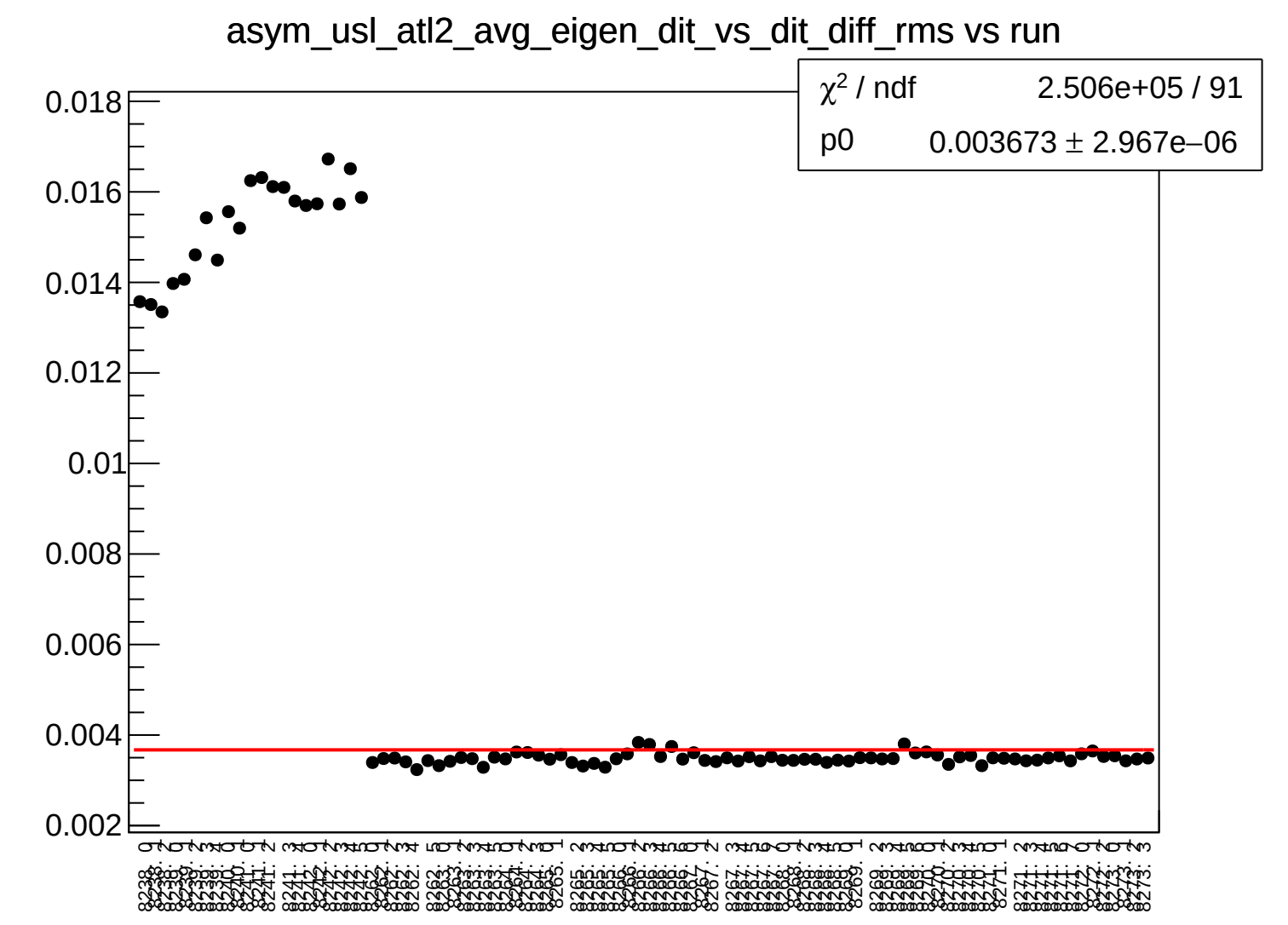

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.416e+04 / 91
p0 125.2 ± 0.09581
240
220
200
180
160
140
120
100
80

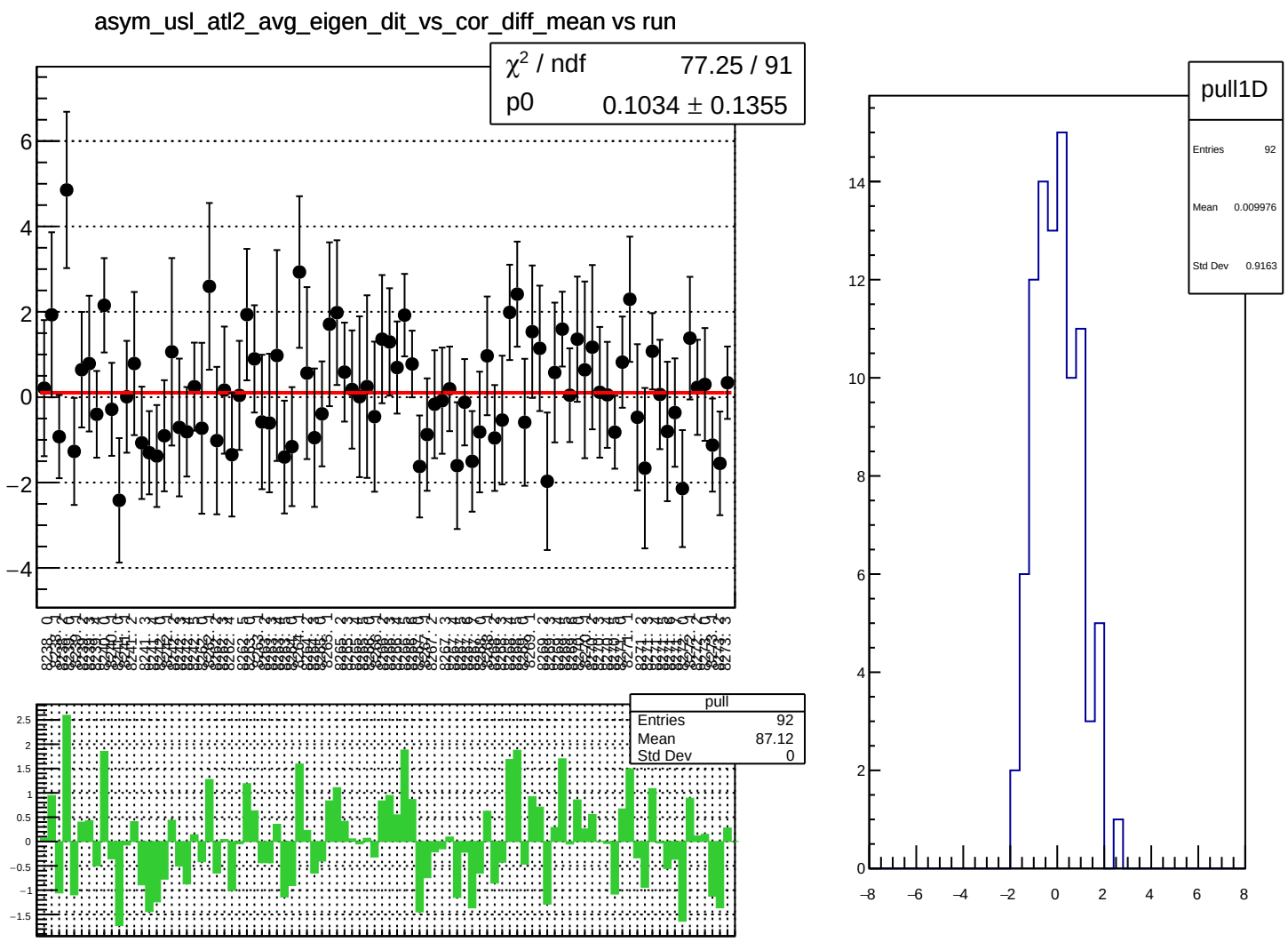

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.25 / 91
p0 0.1034 ± 0.1355
pull
Entries 92
Mean 87.15
Std Dev 0
pull1D
Entries 92
Mean 0.009971
Std Dev 0.9163

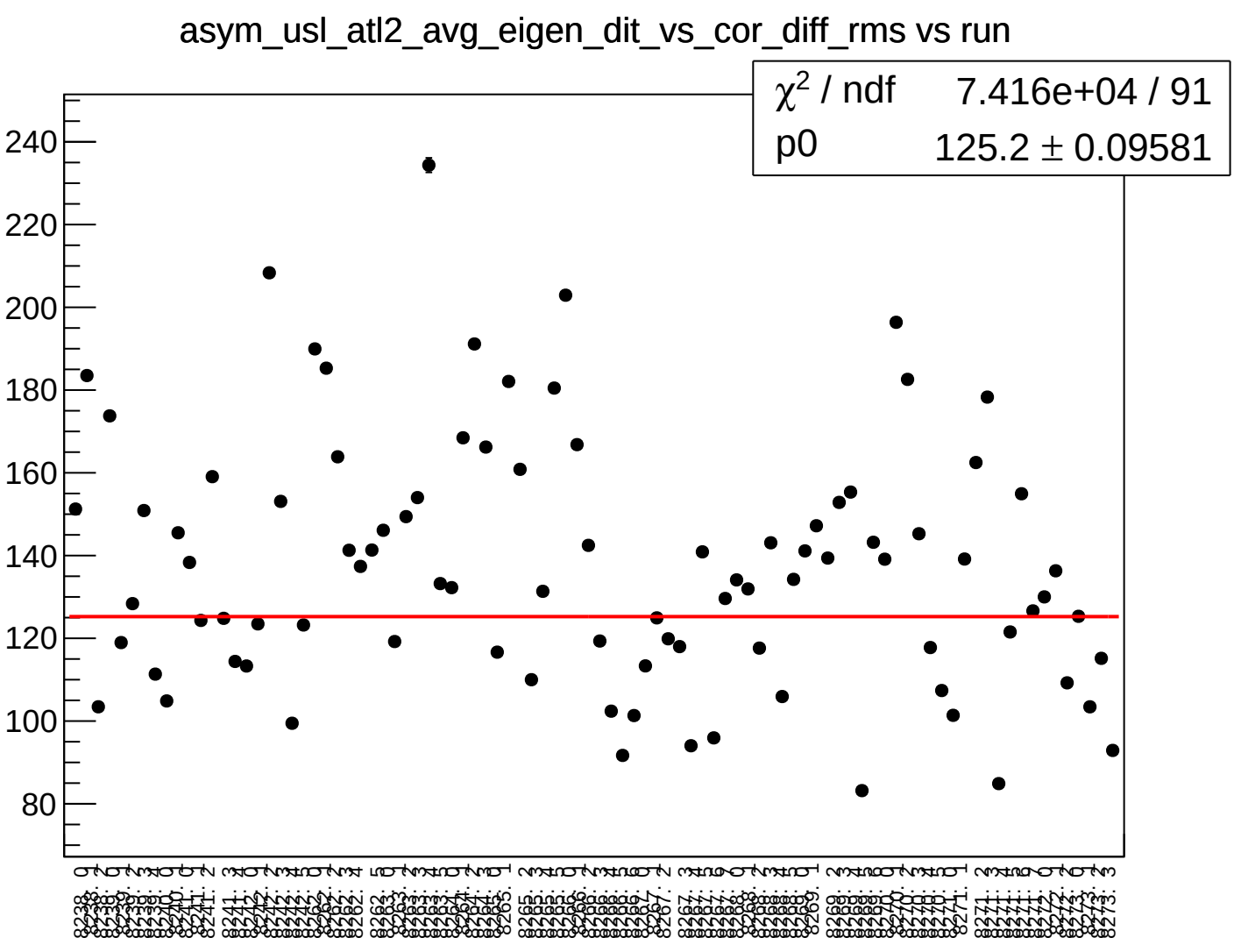

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.416e+04 / 91
p0 125.2 ± 0.09581
240
220
200
180
160
140
120
100
80

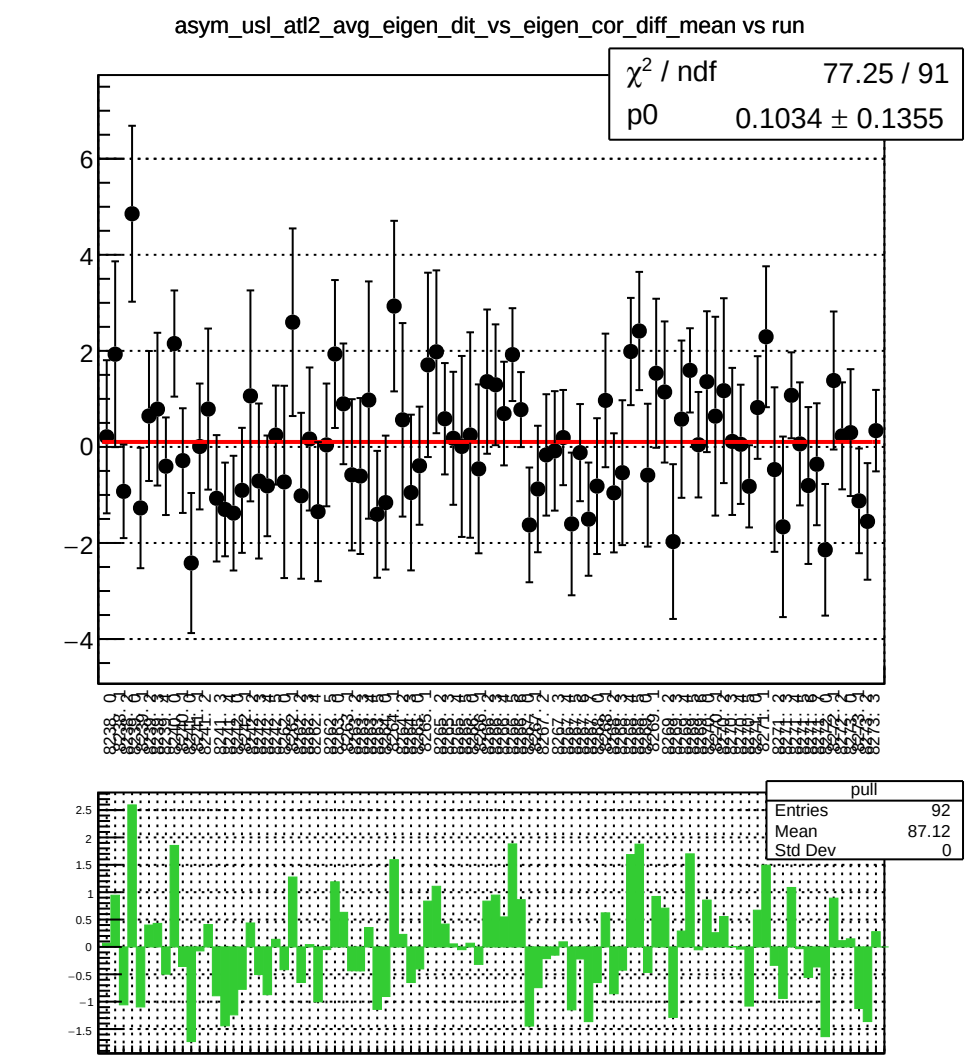

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.23 / 91
p0 −1.575e−06 ± 4.196e−06
pull
Entries 92
Mean −3.238
Std Dev 0

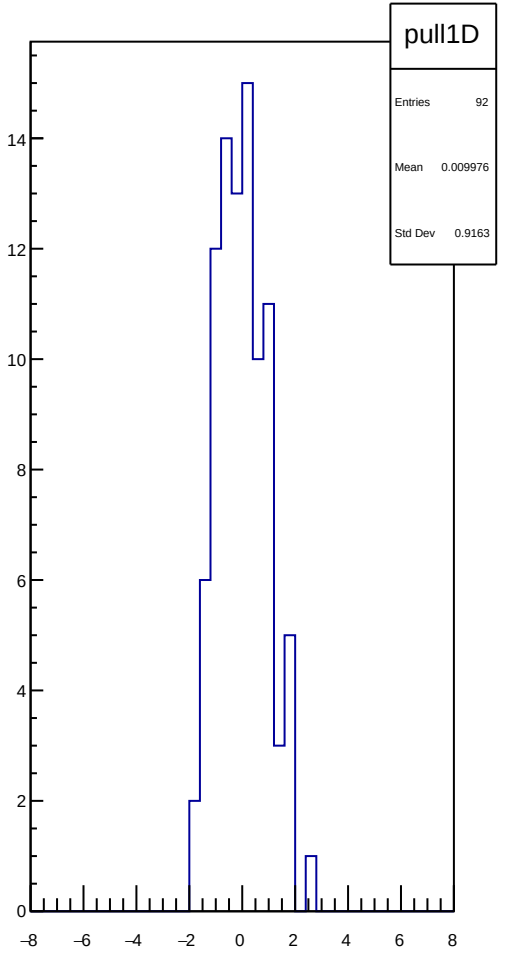

pull1D
Entries 92
Mean 0.06726
Std Dev 0.977

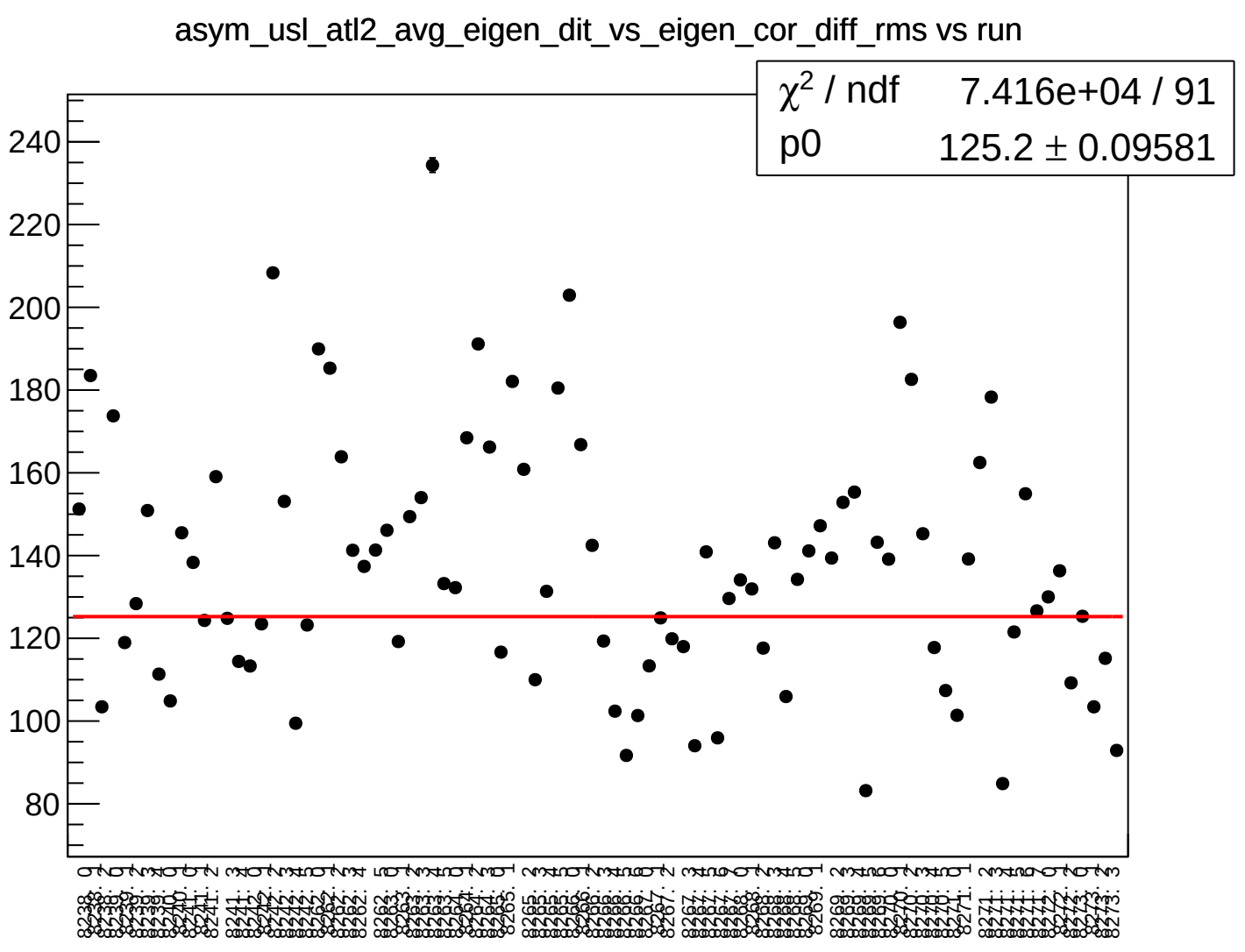

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.506e+05 / 91
p0 0.003673 ± 2.967e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

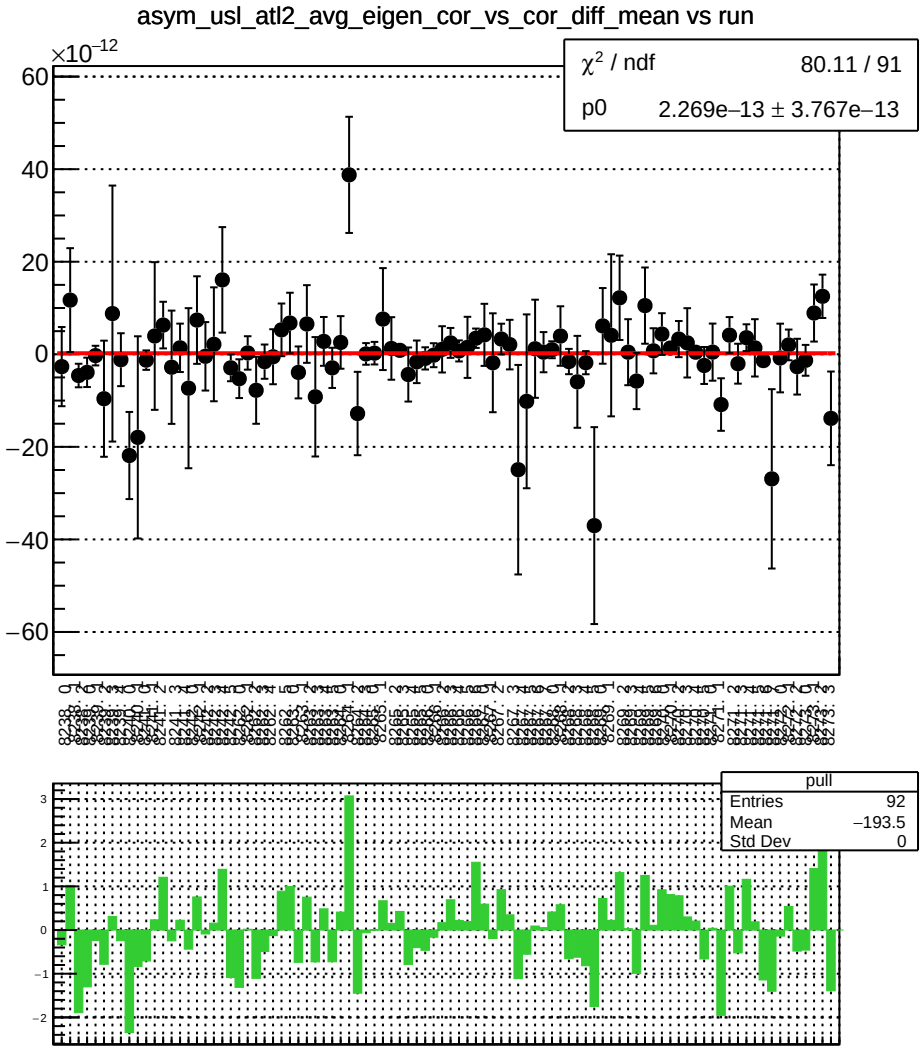

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.25 / 91
p0 0.1034 ± 0.1355
pull
Entries 92
Mean 87.12
Std Dev 0
pull1D
Entries 92
Mean 0.009976
Std Dev 0.9163

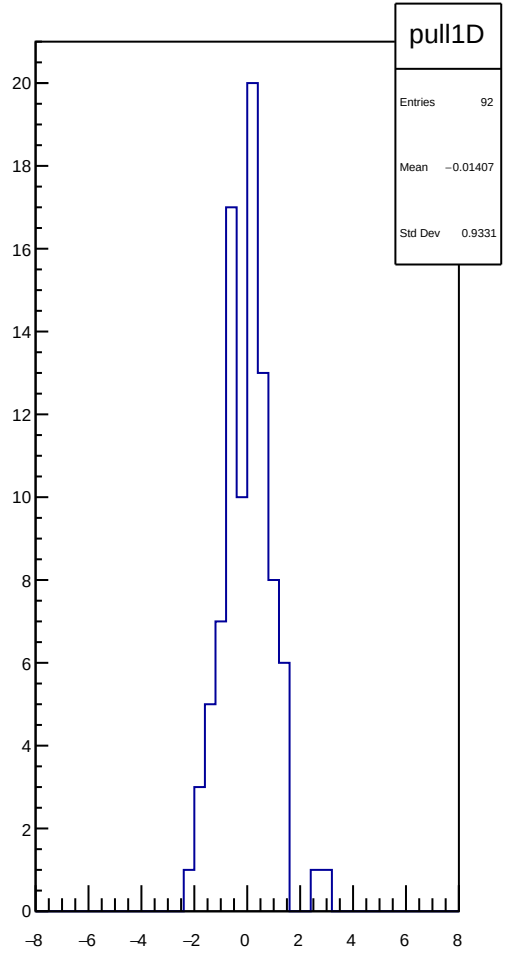

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.416e+04 / 91
p0 125.2 ± 0.09581
240
220
200
180
160
140
120
100
80

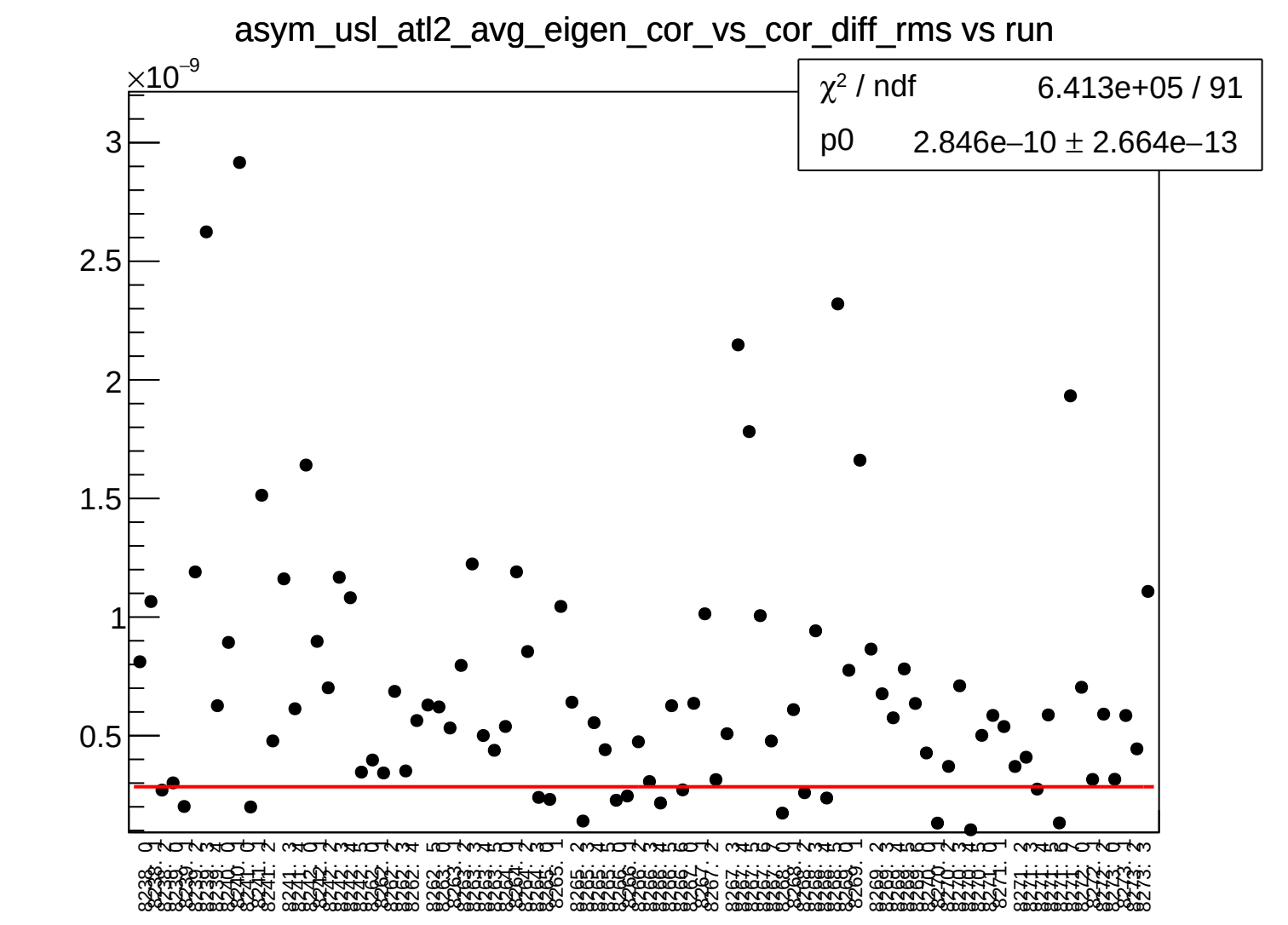

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.25 / 91
p0 0.1034 ± 0.1355
pull
Entries 92
Mean 87.12
Std Dev 0

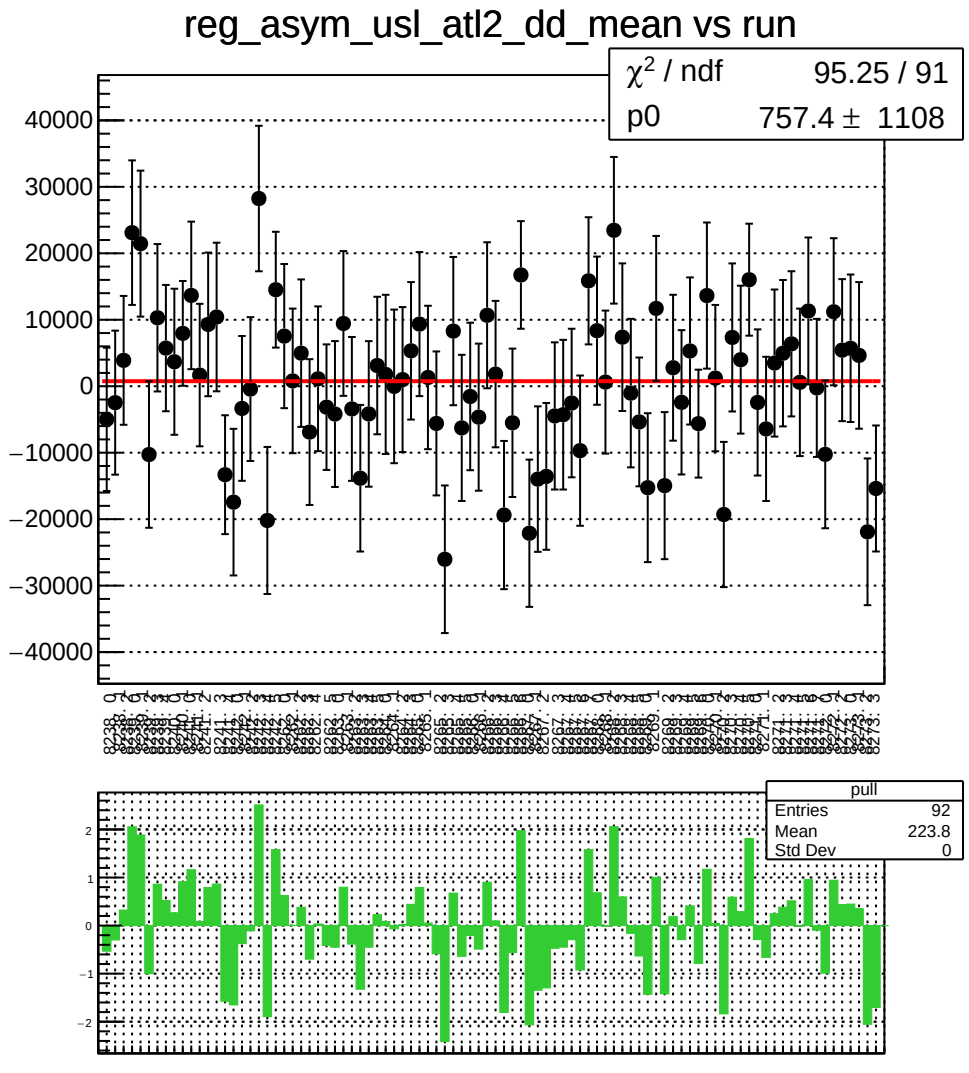

pull1D
Entries 92
Mean 0.009976
Std Dev 0.9163

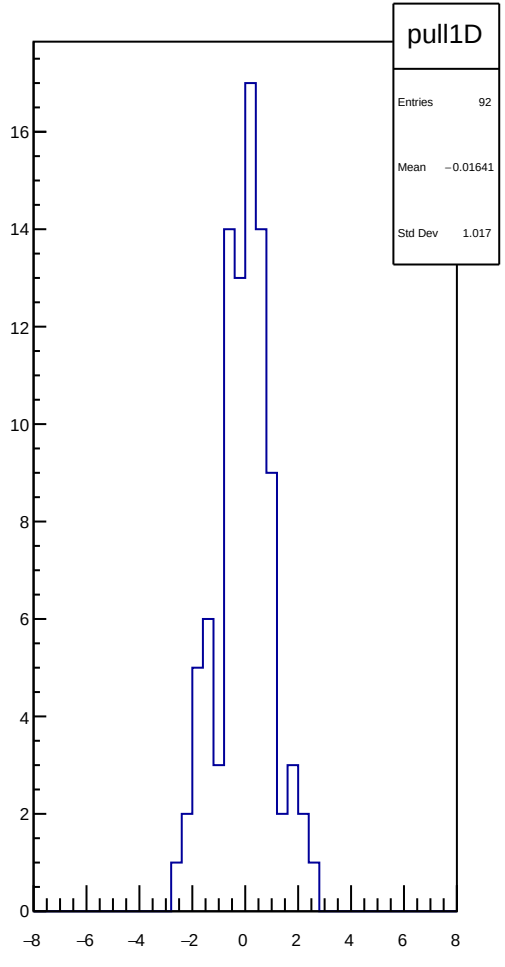

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.416e+04 / 91
p0 125.2 ± 0.09581
240
220
200
180
160
140
120
100
80

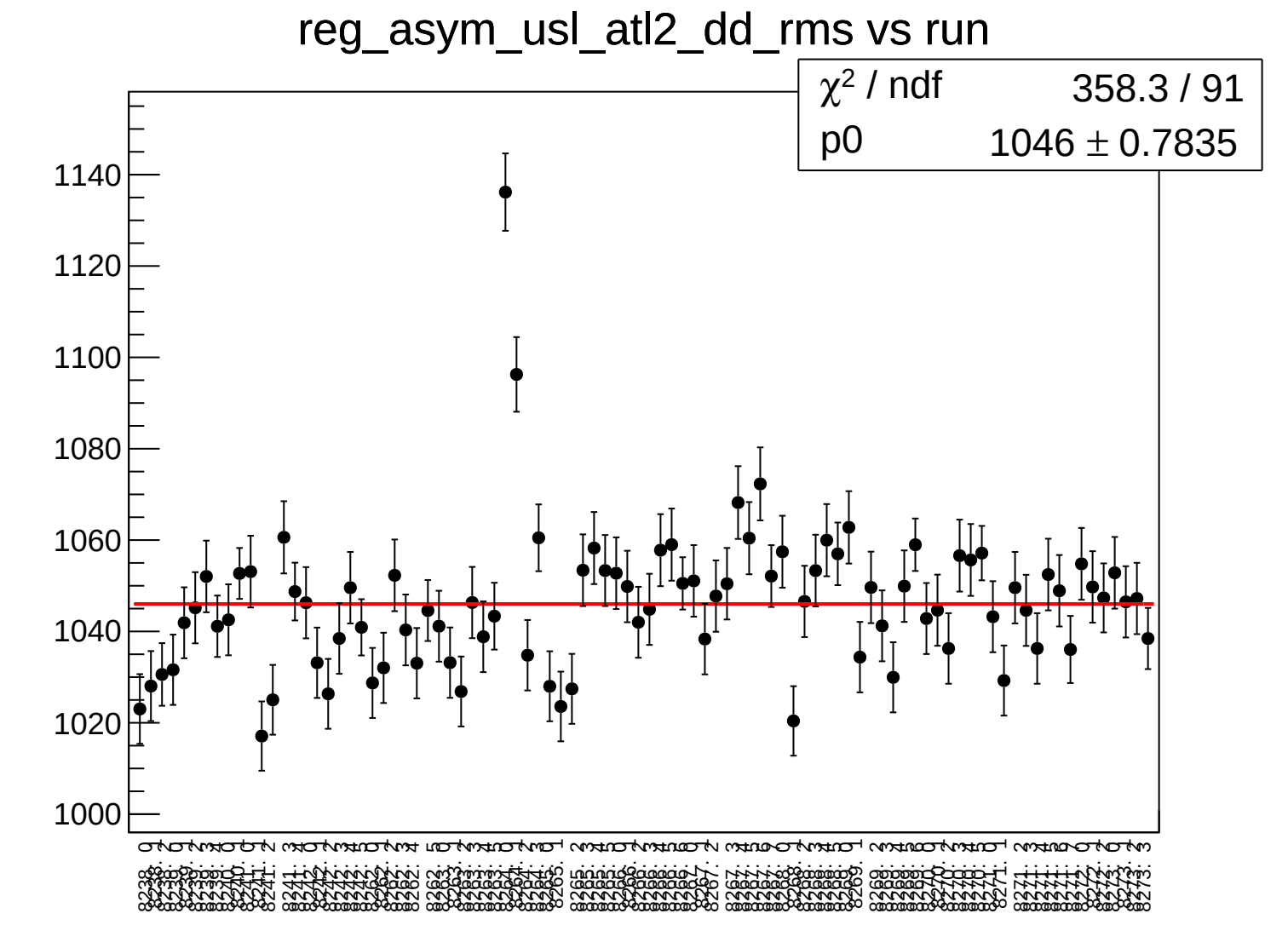

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 80.11 / 91
p0 2.269e−13 ± 3.767e−13
pull
Entries 92
Mean −193.5
Std Dev 0

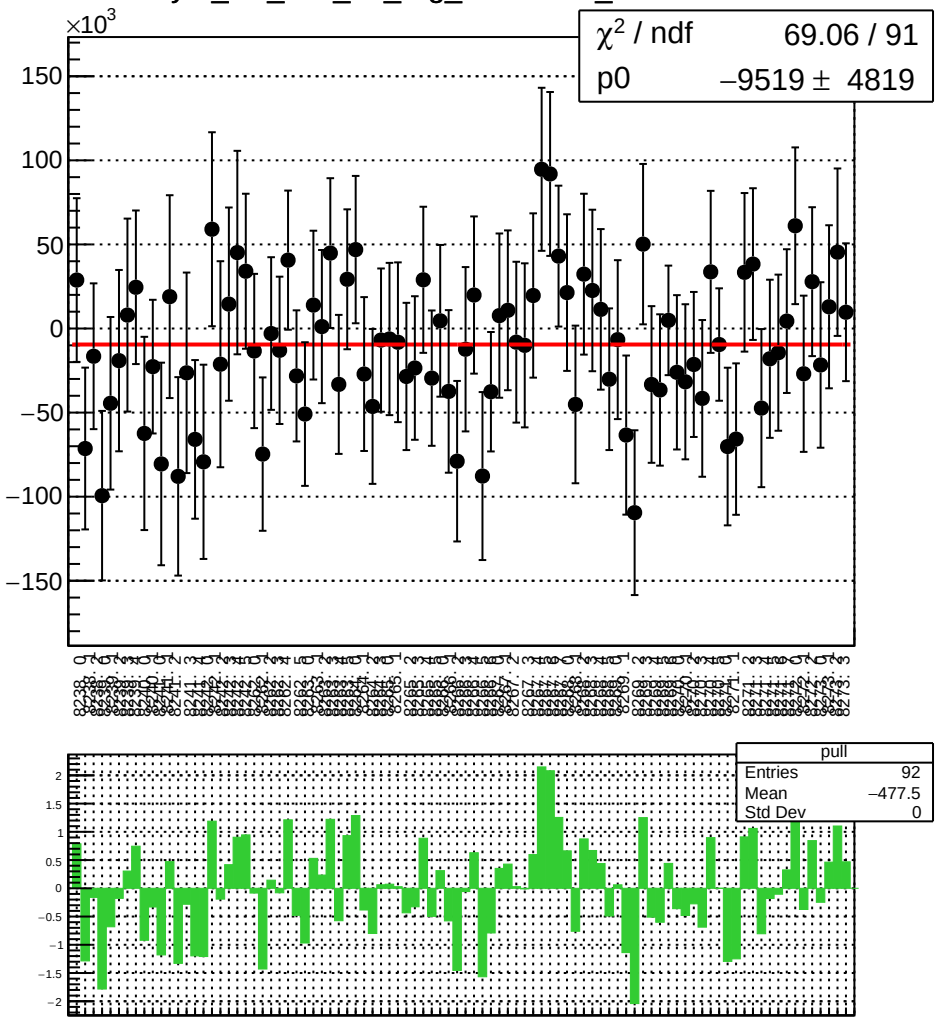

pull1D
Entries 92
Mean −0.01407
Std Dev 0.9331

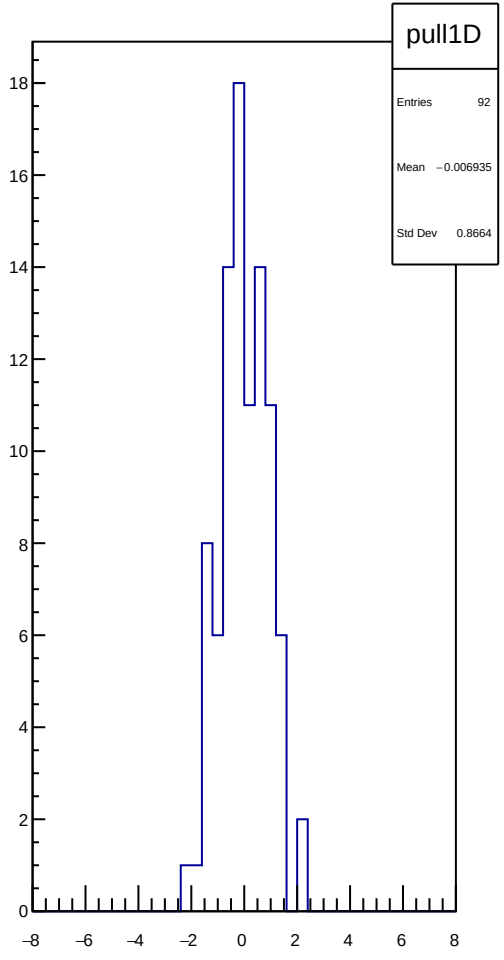

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.413e+05 / 91
p0 2.846e−10 ± 2.664e−13
3
2.5
2
1.5
1
0.5

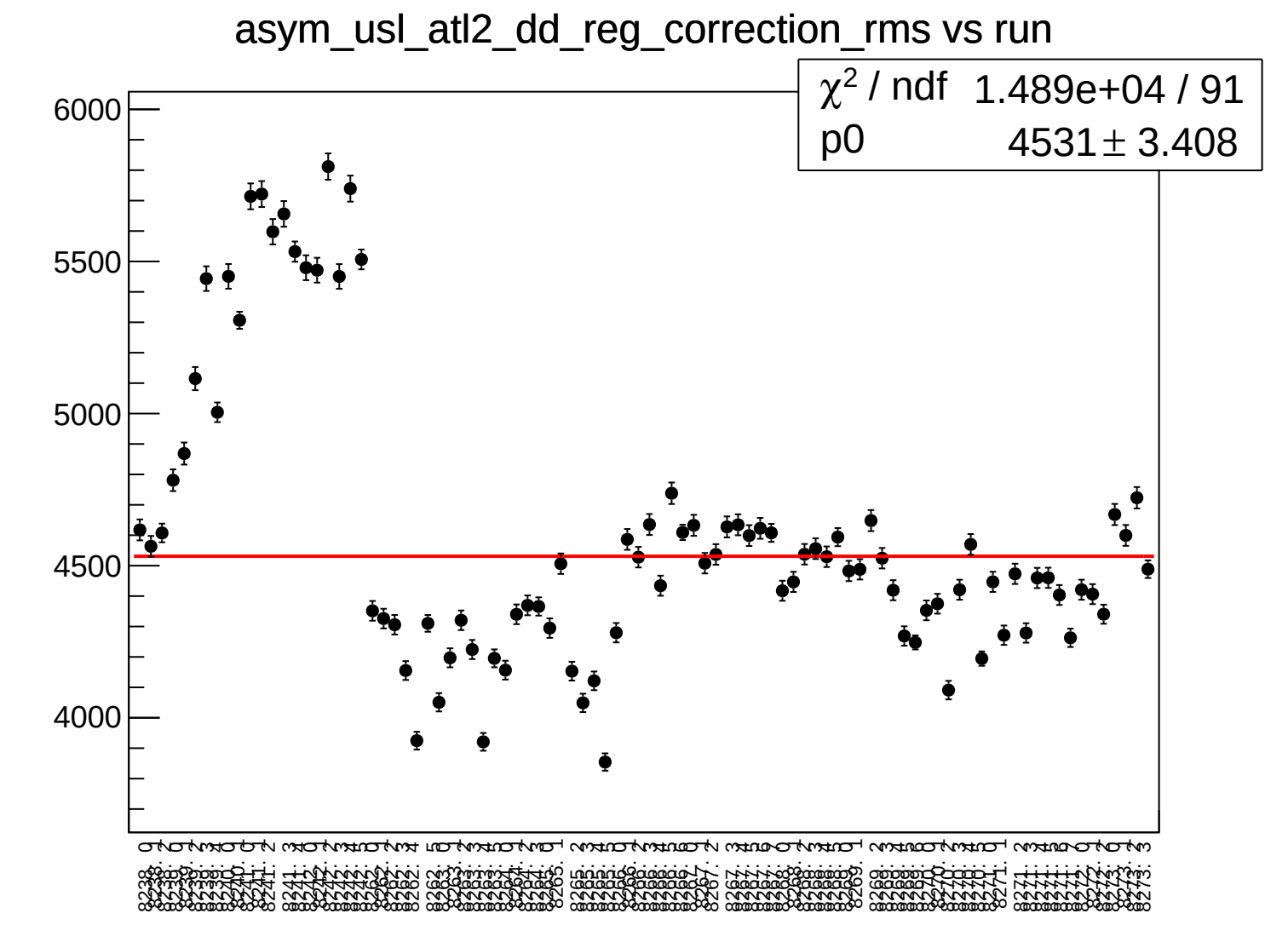

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 95.25 / 91
p0 757.4 ± 1108
pull
Entries 92
Mean 223.8
Std Dev 0

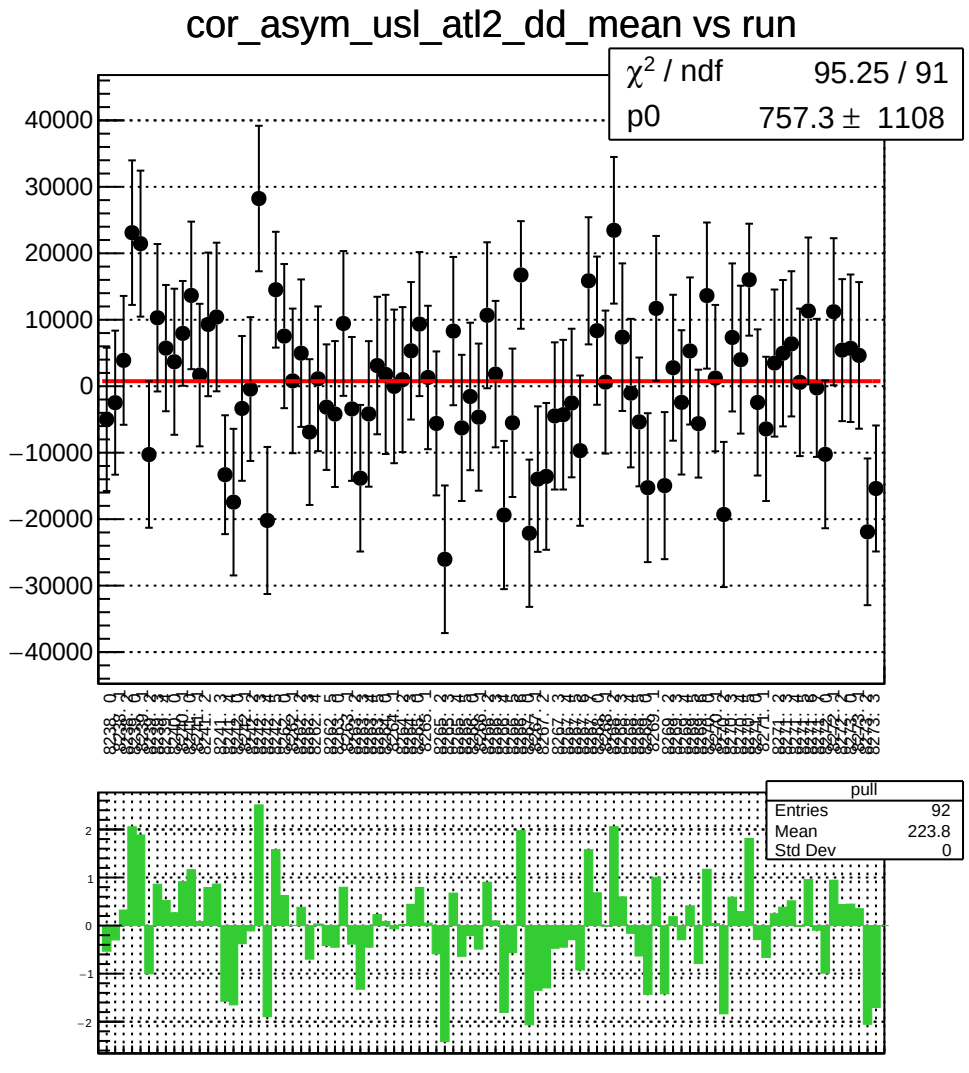

pull1D
Entries 92
Mean −0.01641
Std Dev 1.017

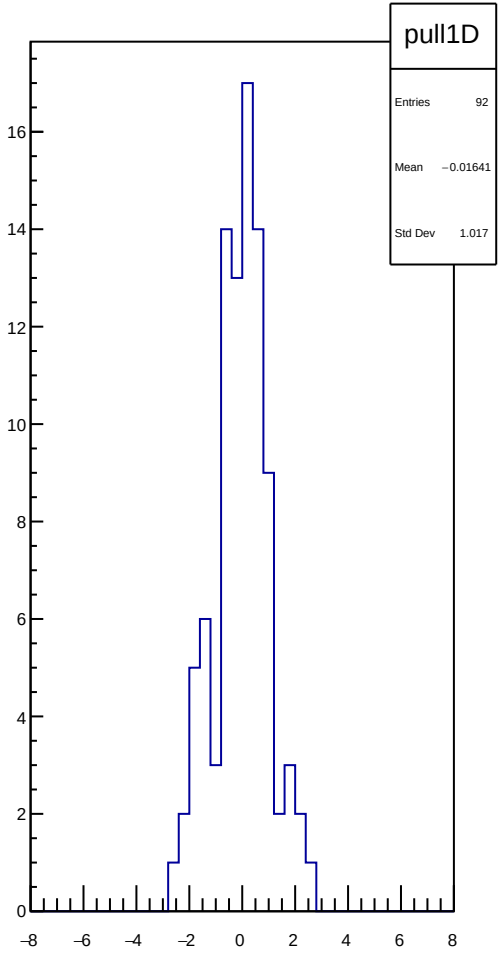

reg_asym_usl_atl2_dd_rms vs run
$\chi^2$ / ndf 358.3 / 91
p0 1046 ± 0.7835
1140
1120
1100
1080
1060
1040
1020
1000

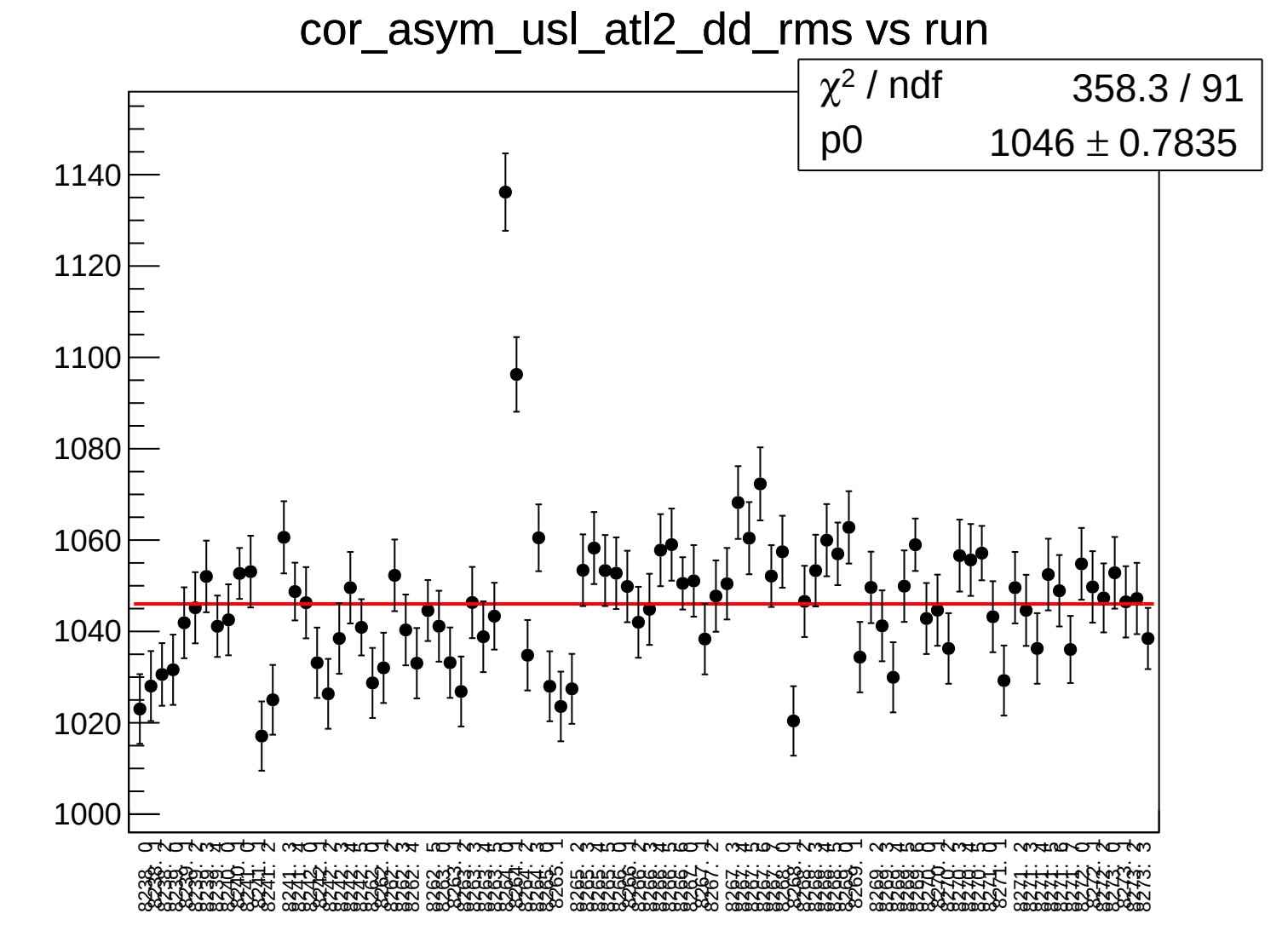

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 69.06 / 91
p0 −9519 ± 4819
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −477.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

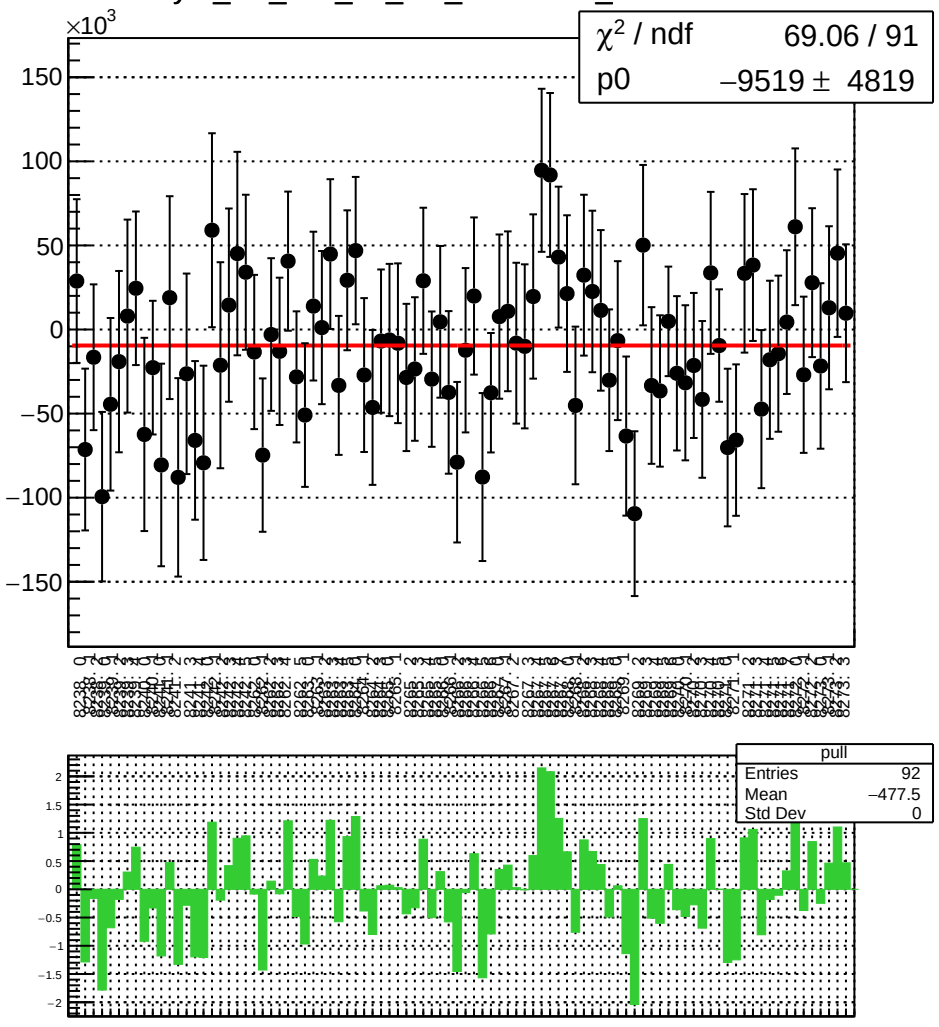

pull1D
Entries 92
Mean −0.006935
Std Dev 0.8664
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

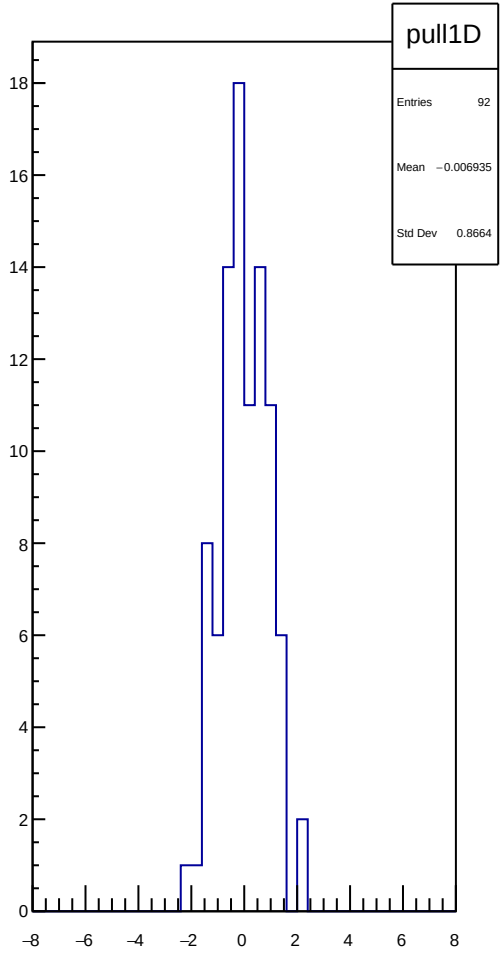

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 1.489e+04 / 91
p0 4531 ± 3.408
6000
5500
5000
4500
4000

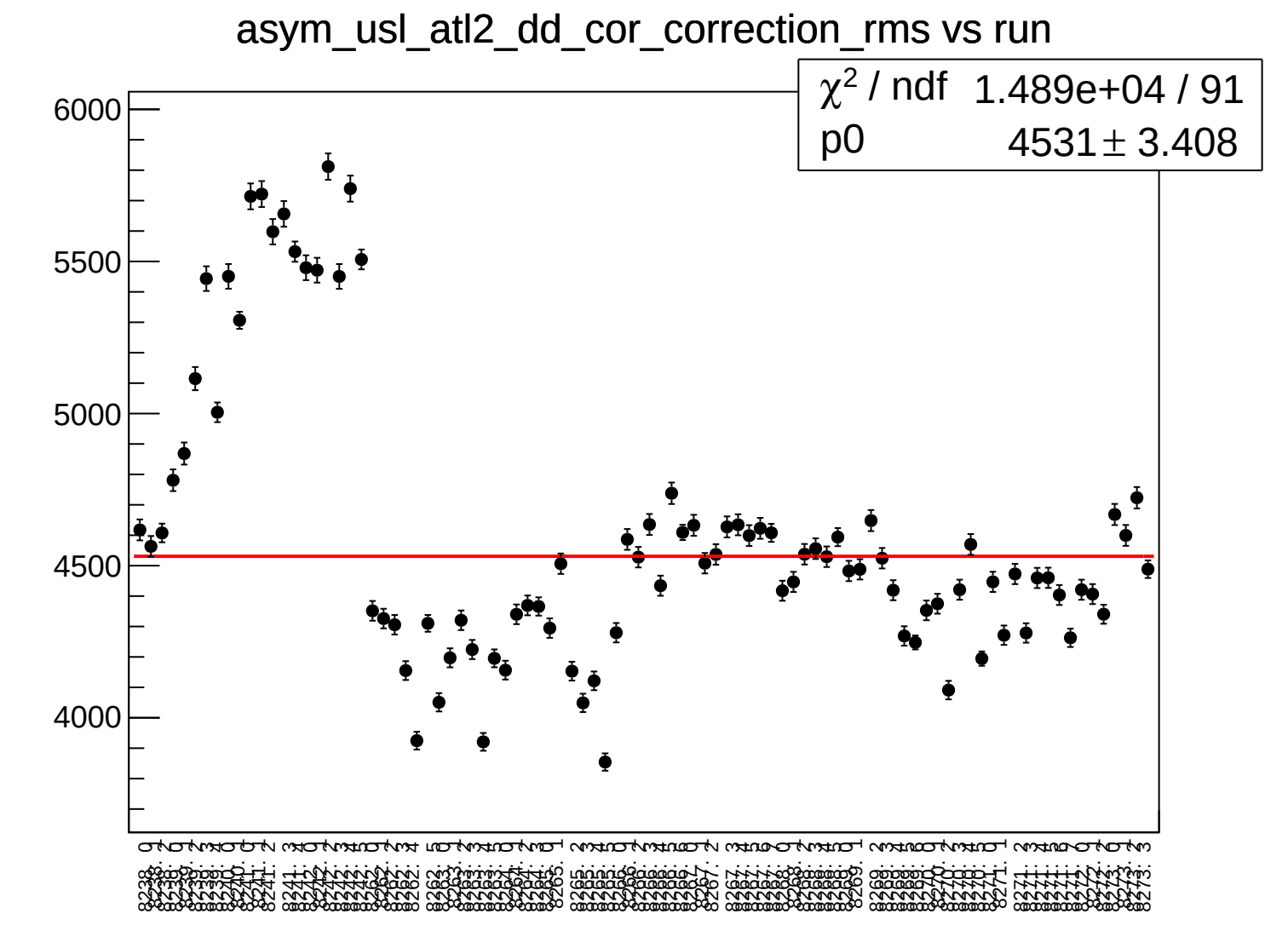

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 95.25 / 91
p0 757.3 ± 1108
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean 223.8
Std Dev 0
2
1
0
−1
−2

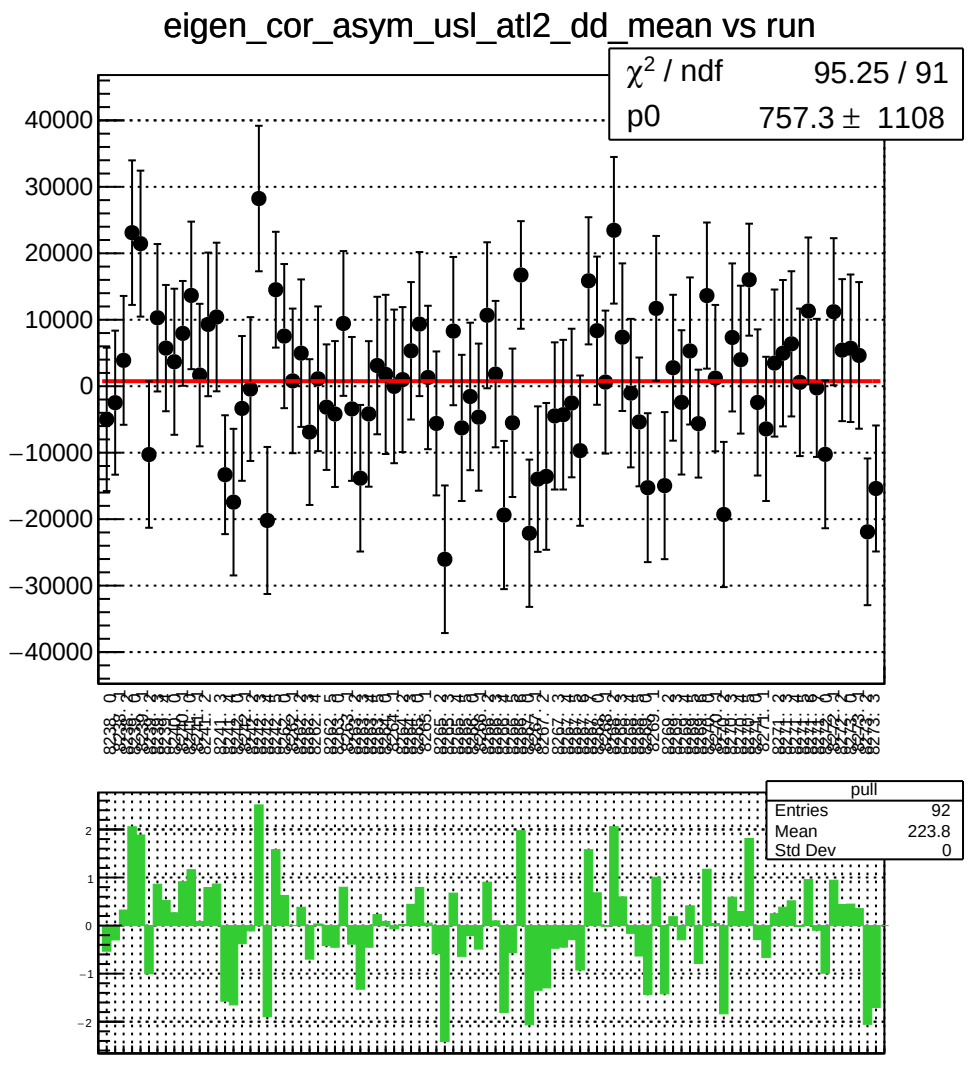

pull1D
Entries 92
Mean −0.01641
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

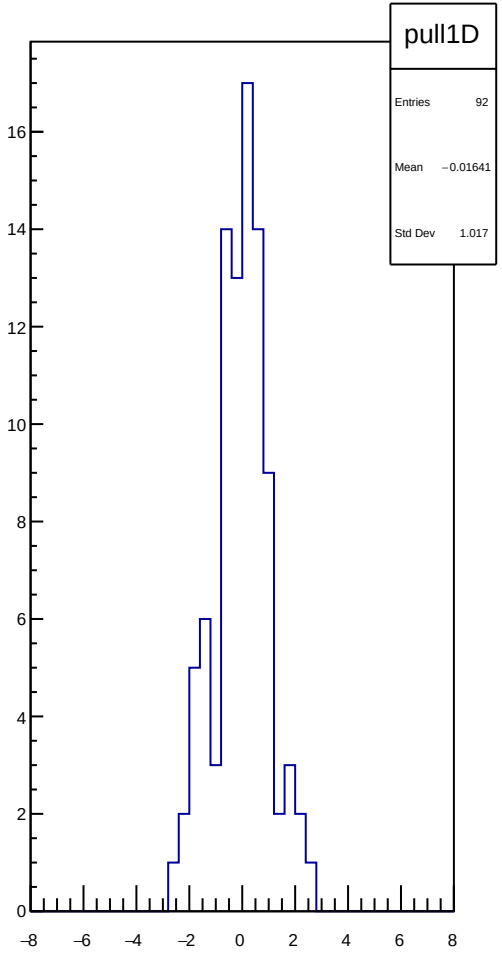

cor_asym_usl_atl2_dd_rms vs run
$\chi^2$ / ndf 358.3 / 91
p0 1046 ± 0.7835
1140
1120
1100
1080
1060
1040
1020
1000

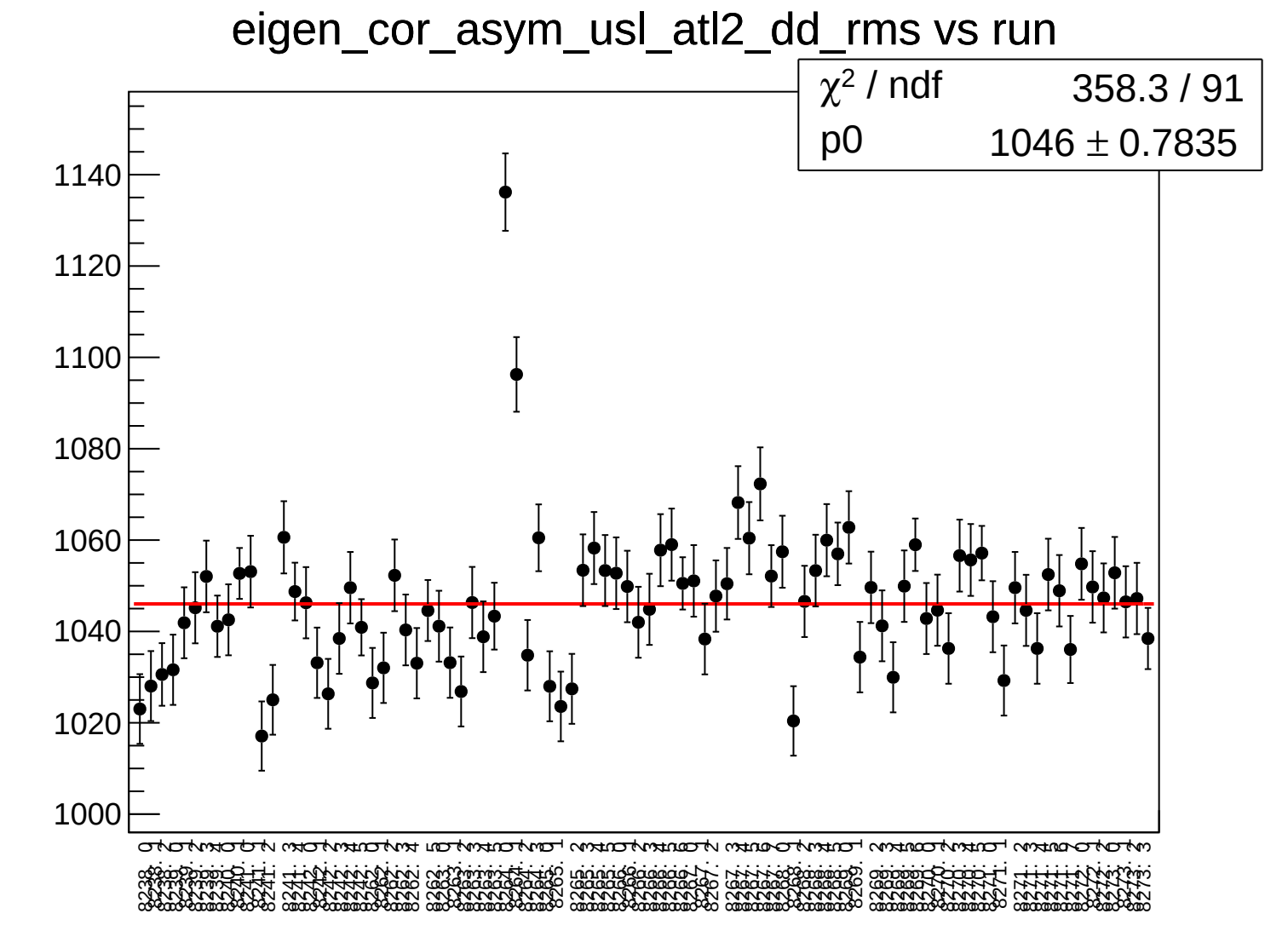

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 69.06 / 91
p0 −9519 ± 4819
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −477.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

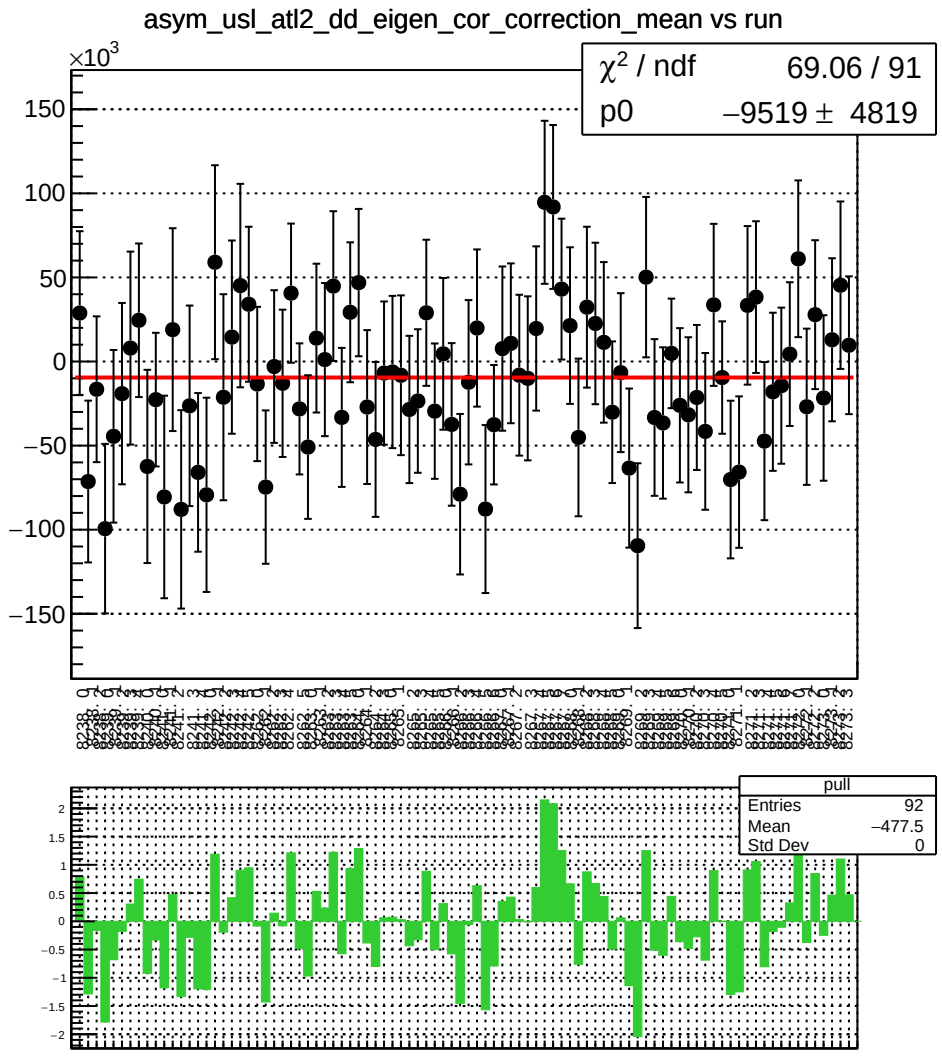

pull1D
Entries 92
Mean −0.006935
Std Dev 0.8664
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

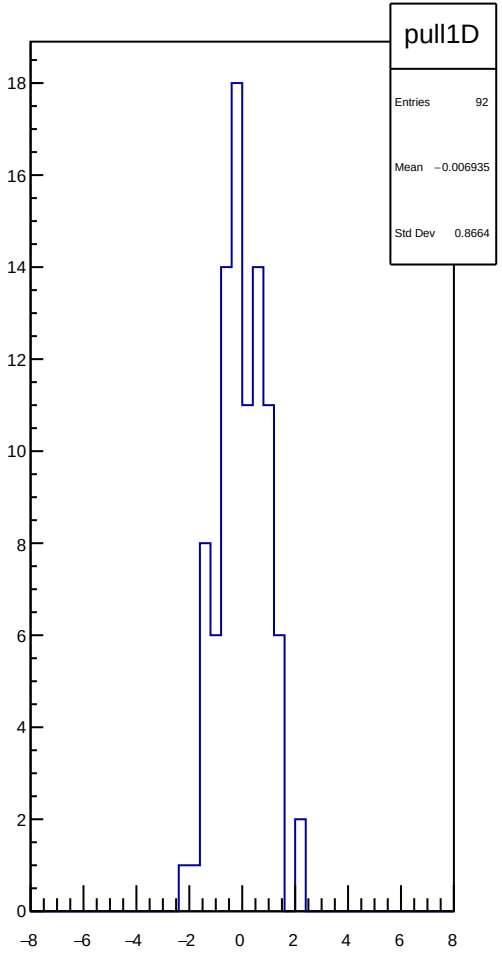

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 1.489e+04 / 91
p0 4531 ± 3.408
6000
5500
5000
4500
4000

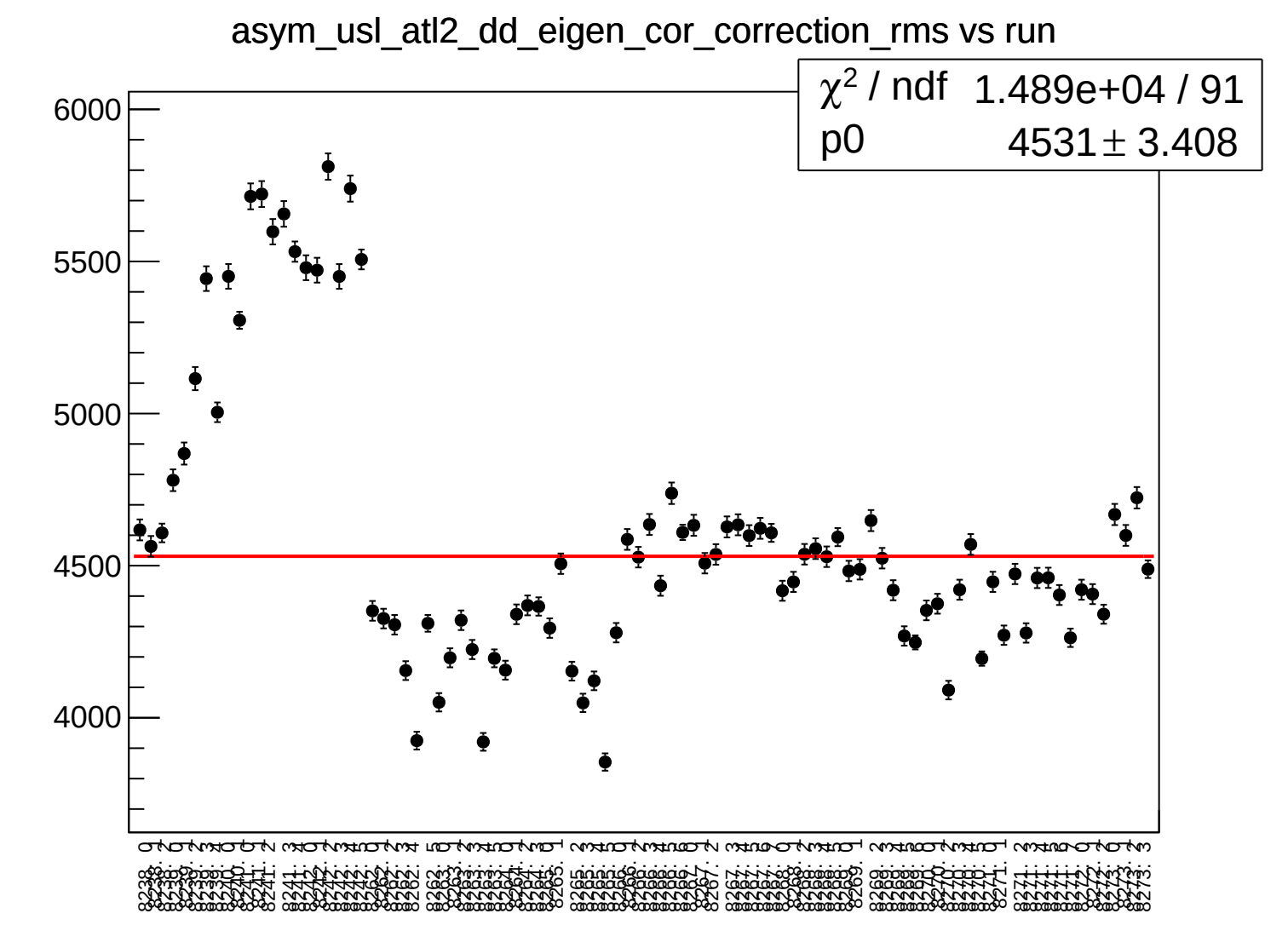

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 95.25 / 91
p0 757.3 ± 1108
pull
Entries 92
Mean 223.8
Std Dev 0

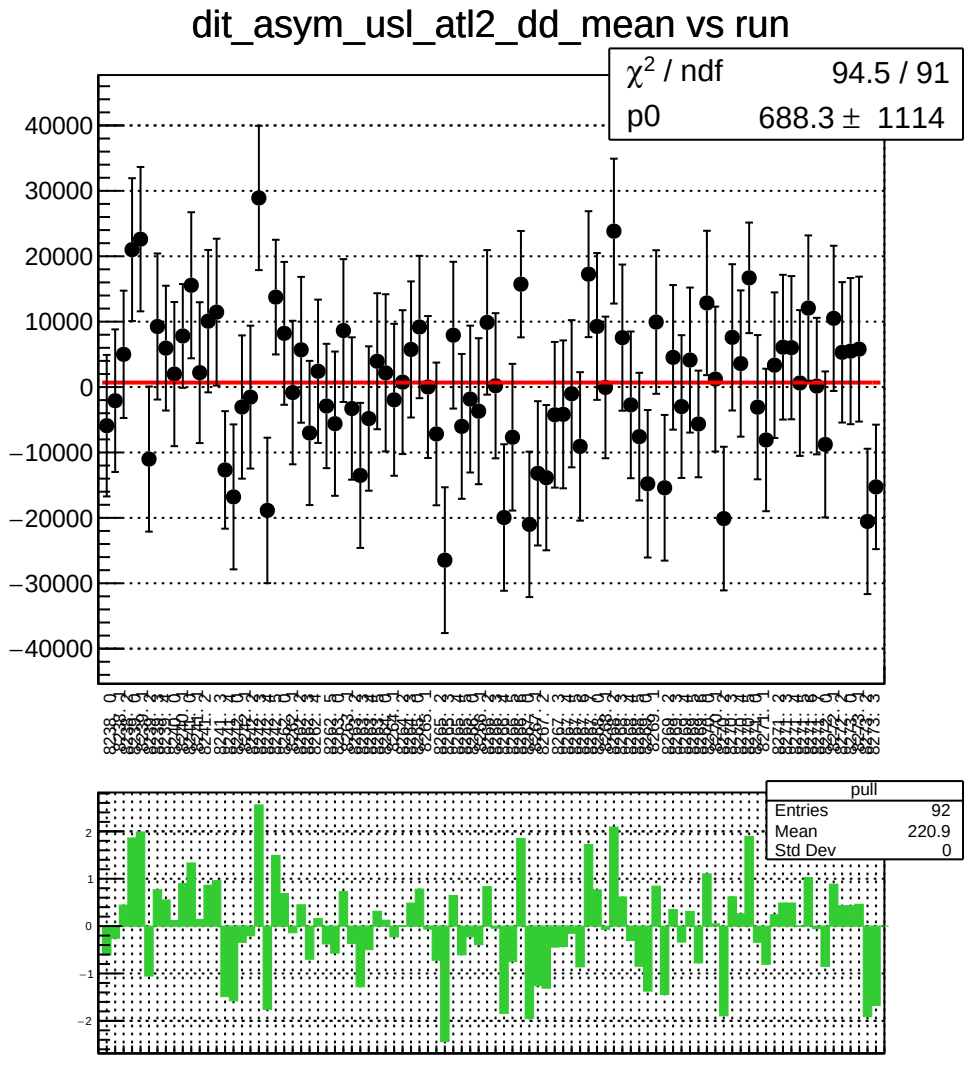

pull1D
Entries 92
Mean −0.01641
Std Dev 1.017

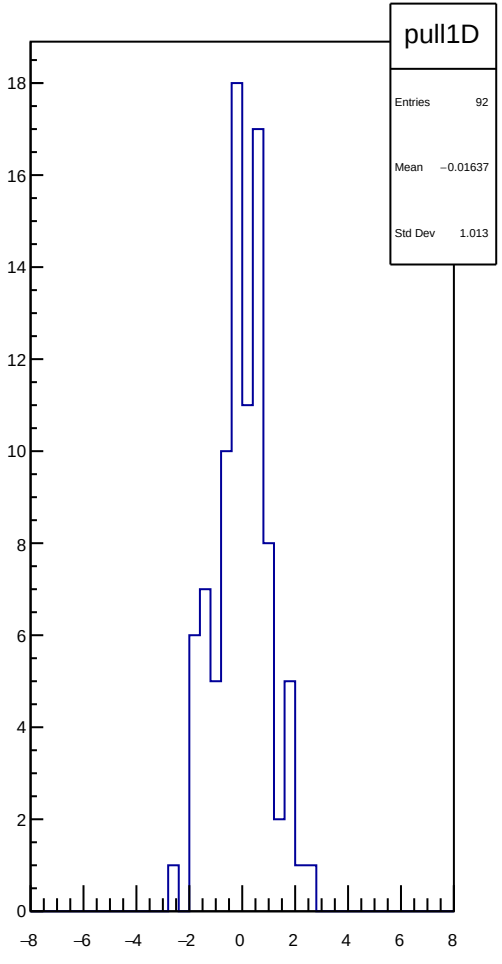

eigen_cor_asym_usl_atl2_dd_rms vs run
$\chi^2$ / ndf 358.3 / 91
p0 1046 ± 0.7835
1140
1120
1100
1080
1060
1040
1020
1000

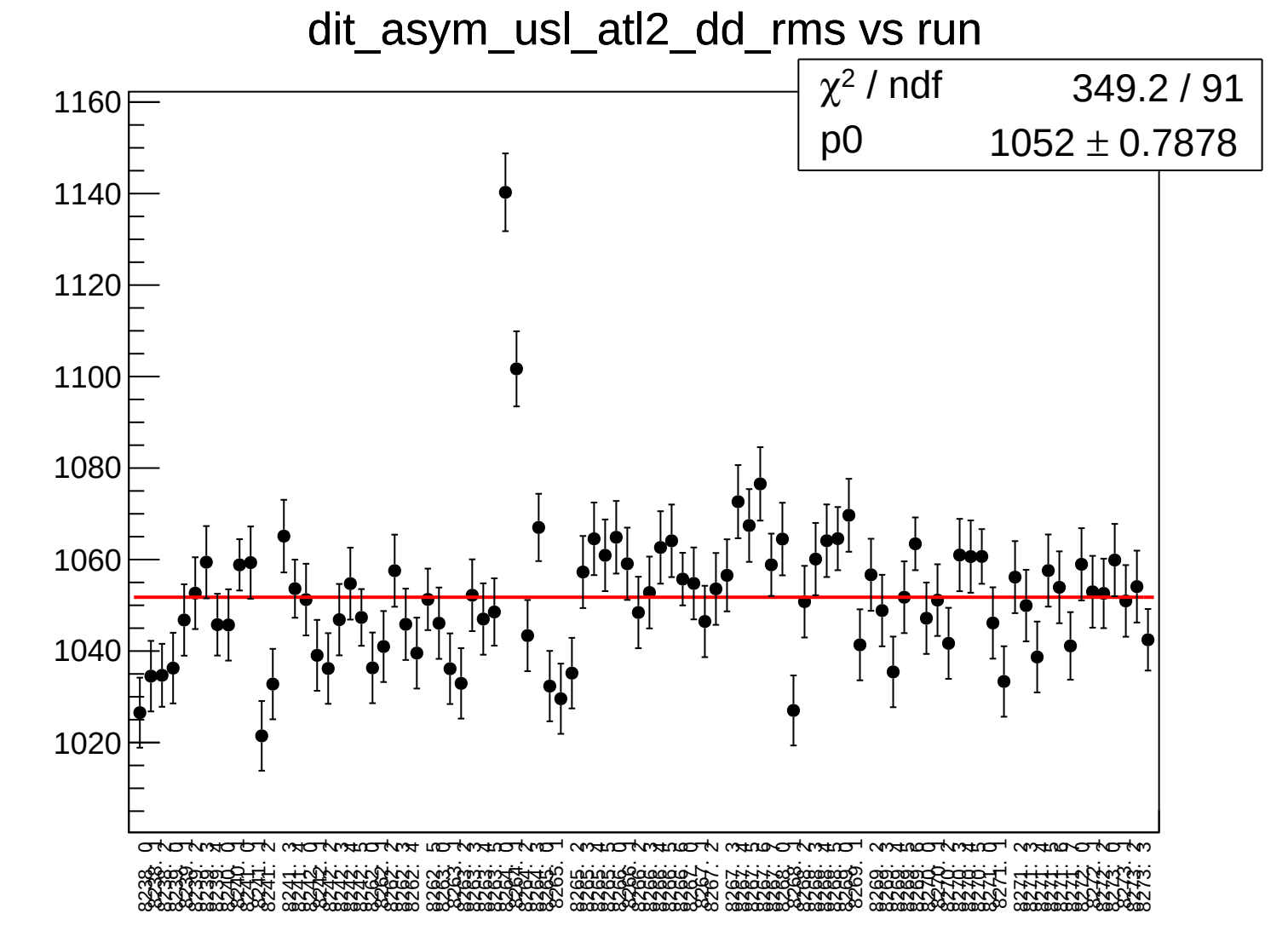

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69.06 / 91
p0 −9519 ± 4819
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −477.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

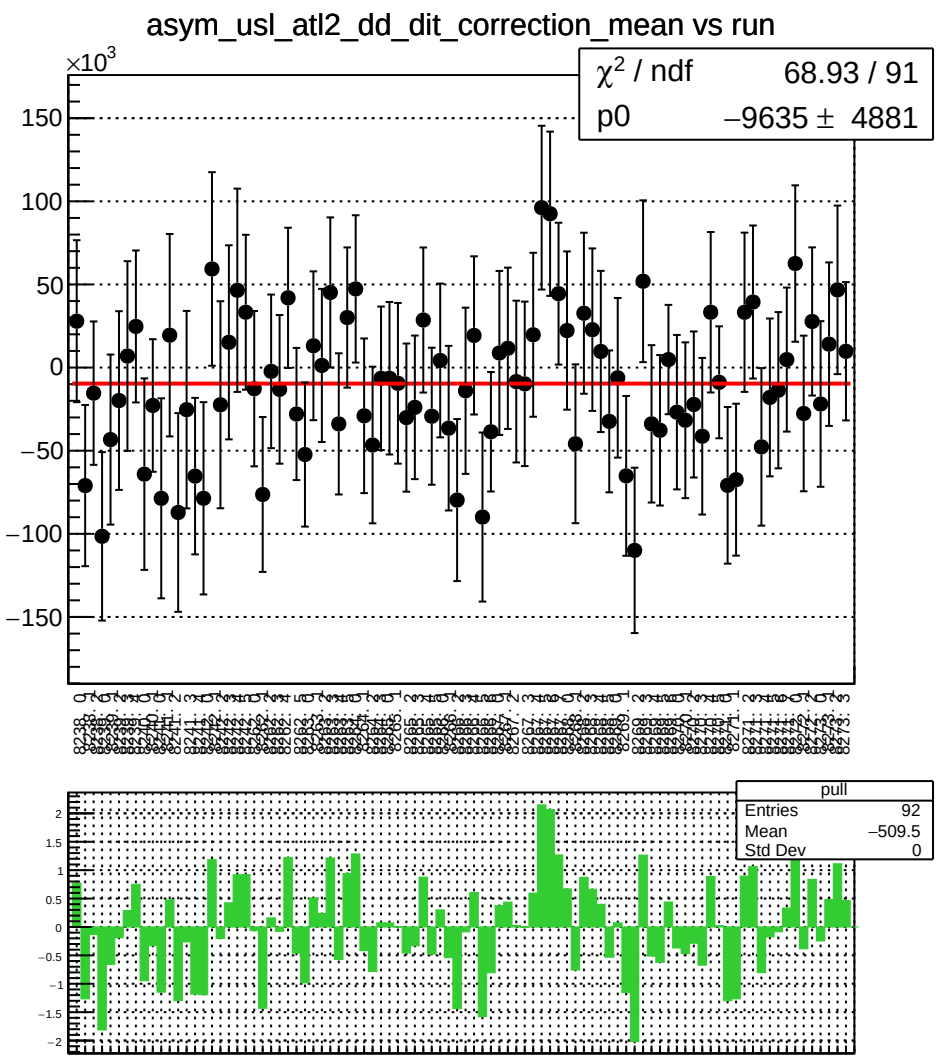

pull1D
Entries 92
Mean −0.006935
Std Dev 0.8664
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

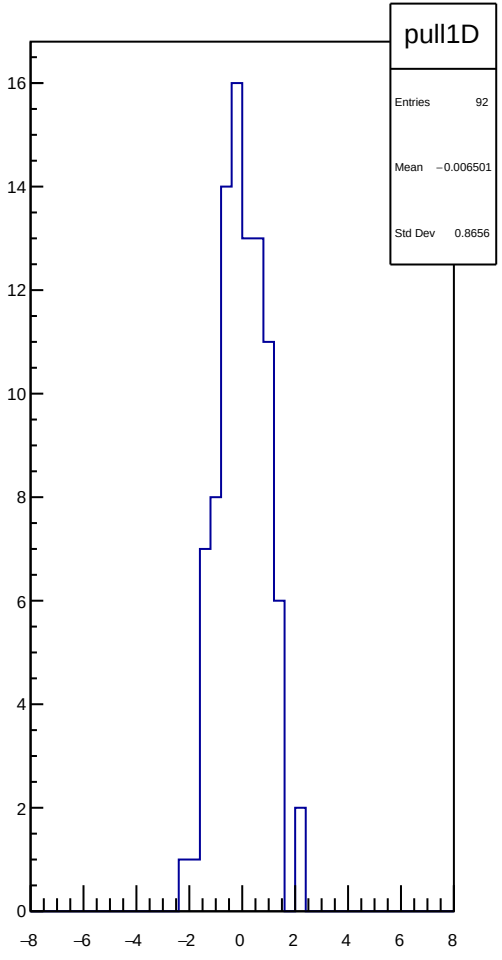

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.489e+04 / 91
p0 4531 ± 3.408
6000
5500
5000
4500
4000

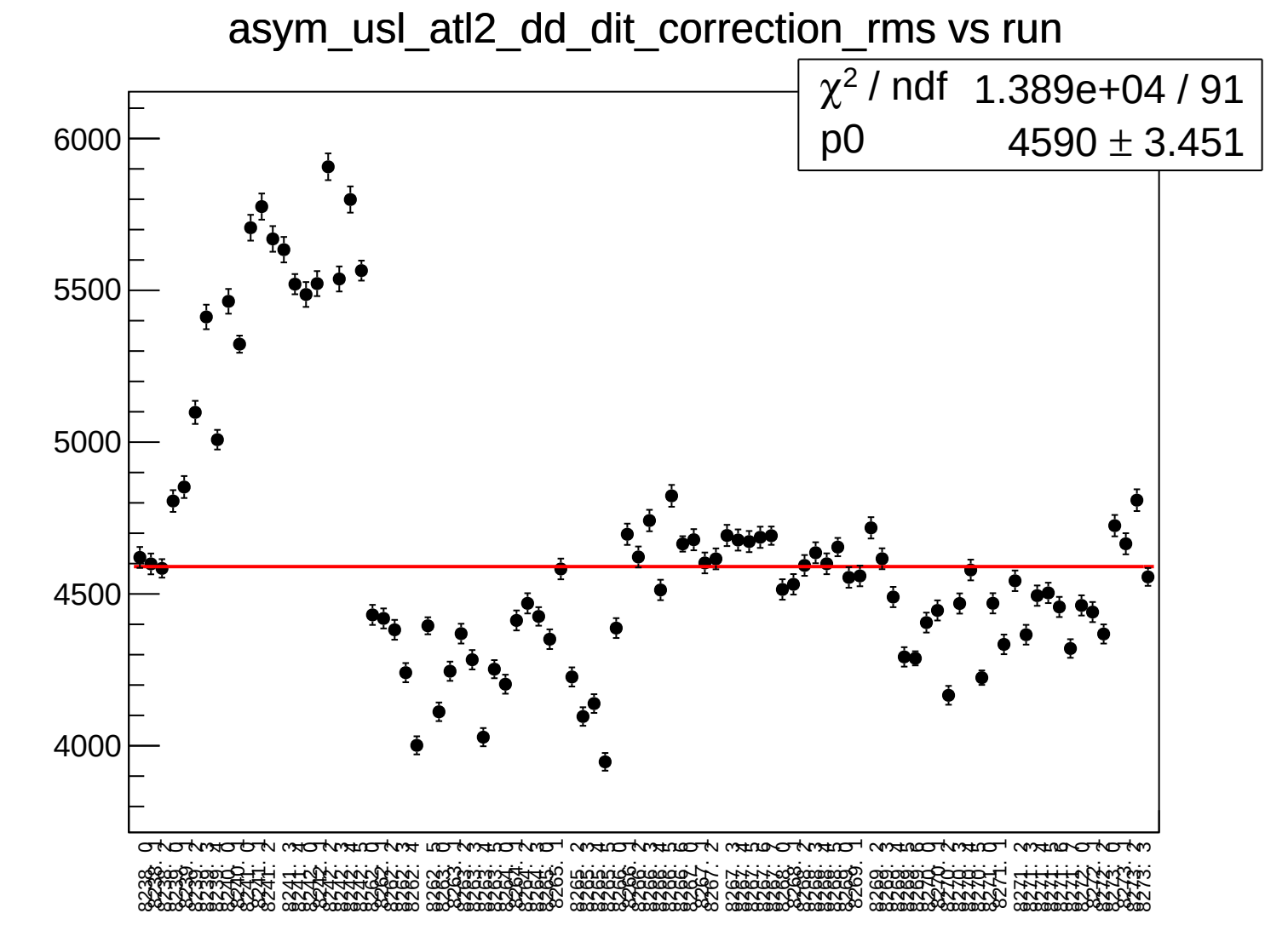

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 94.5 / 91
p0 688.3 ± 1114
pull
Entries 92
Mean 220.9
Std Dev 0

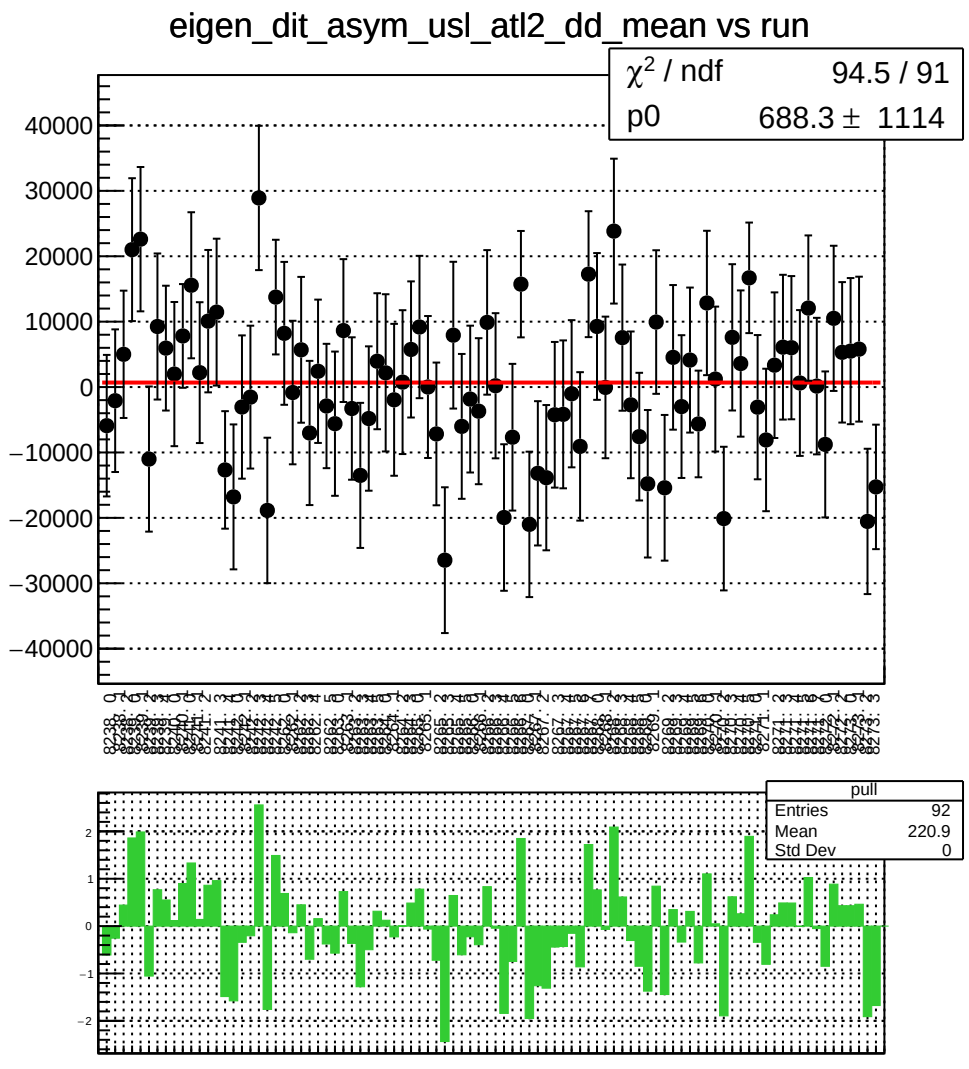

pull1D
Entries 92
Mean −0.01637
Std Dev 1.013

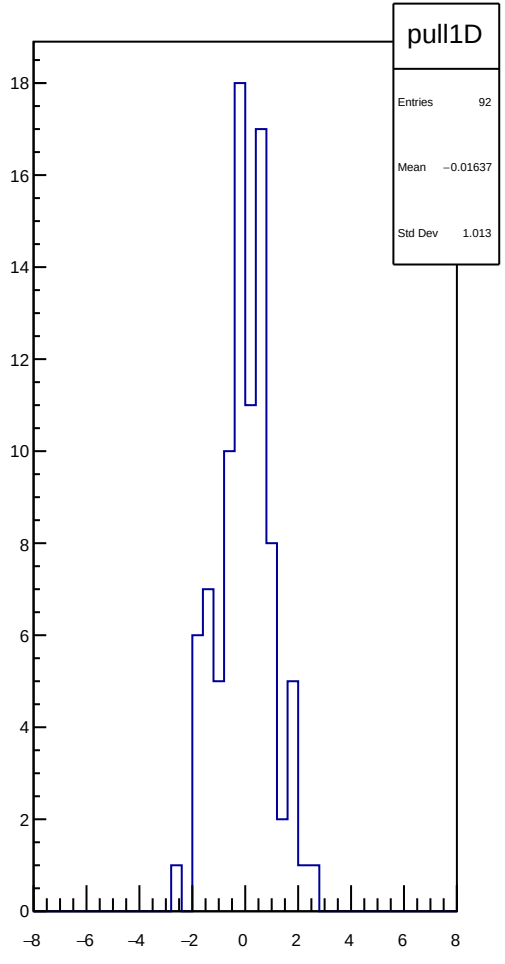

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 349.2 / 91
p0 1052 ± 0.7878
1160
1140
1120
1100
1080
1060
1040
1020

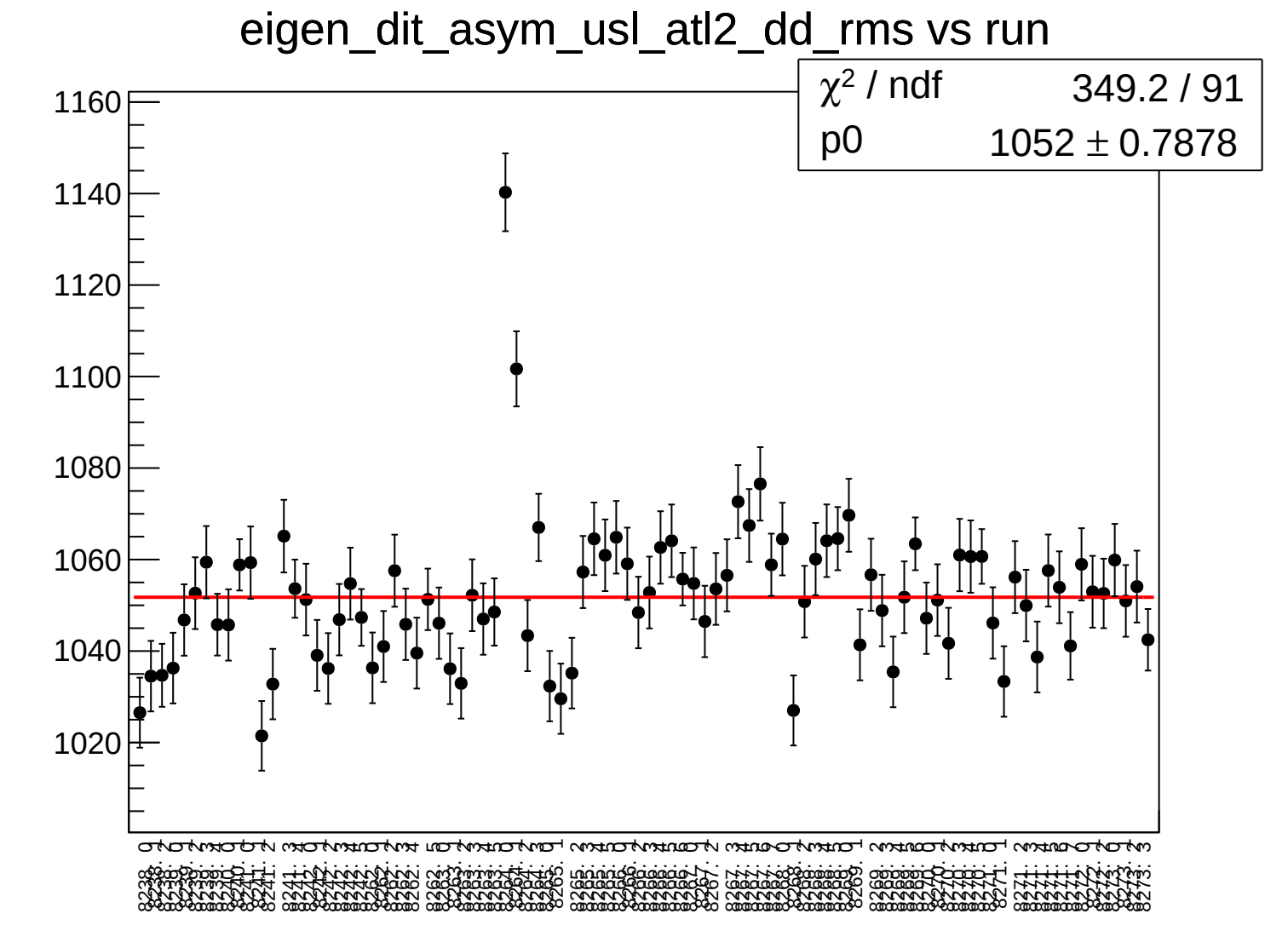

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 68.93 / 91
p0 −9635 ± 4881
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −509.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

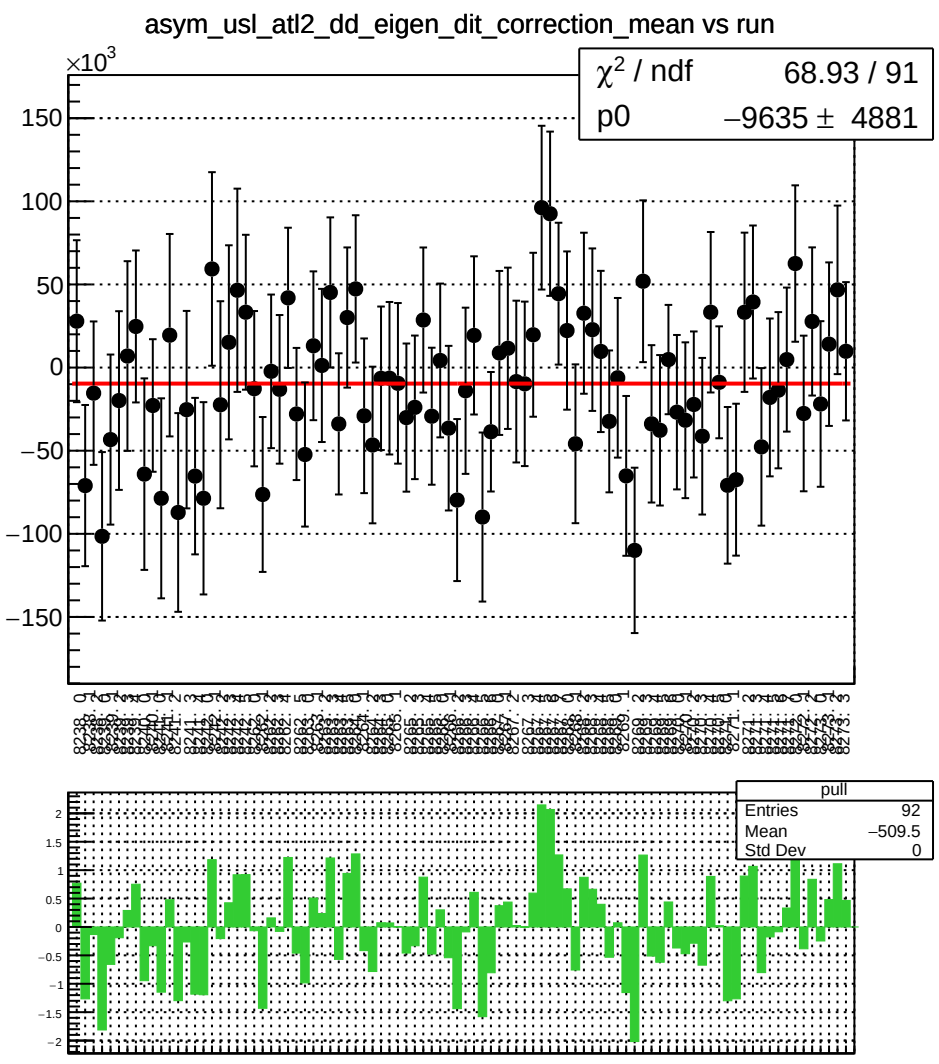

pull1D
Entries 92
Mean −0.006501
Std Dev 0.8656
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

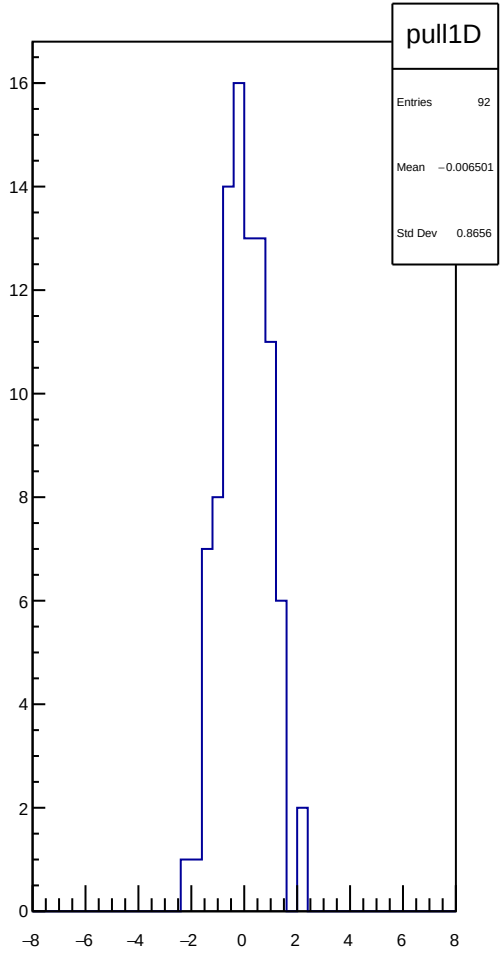

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 1.389e+04 / 91
p0 4590 ± 3.451
6000
5500
5000
4500
4000

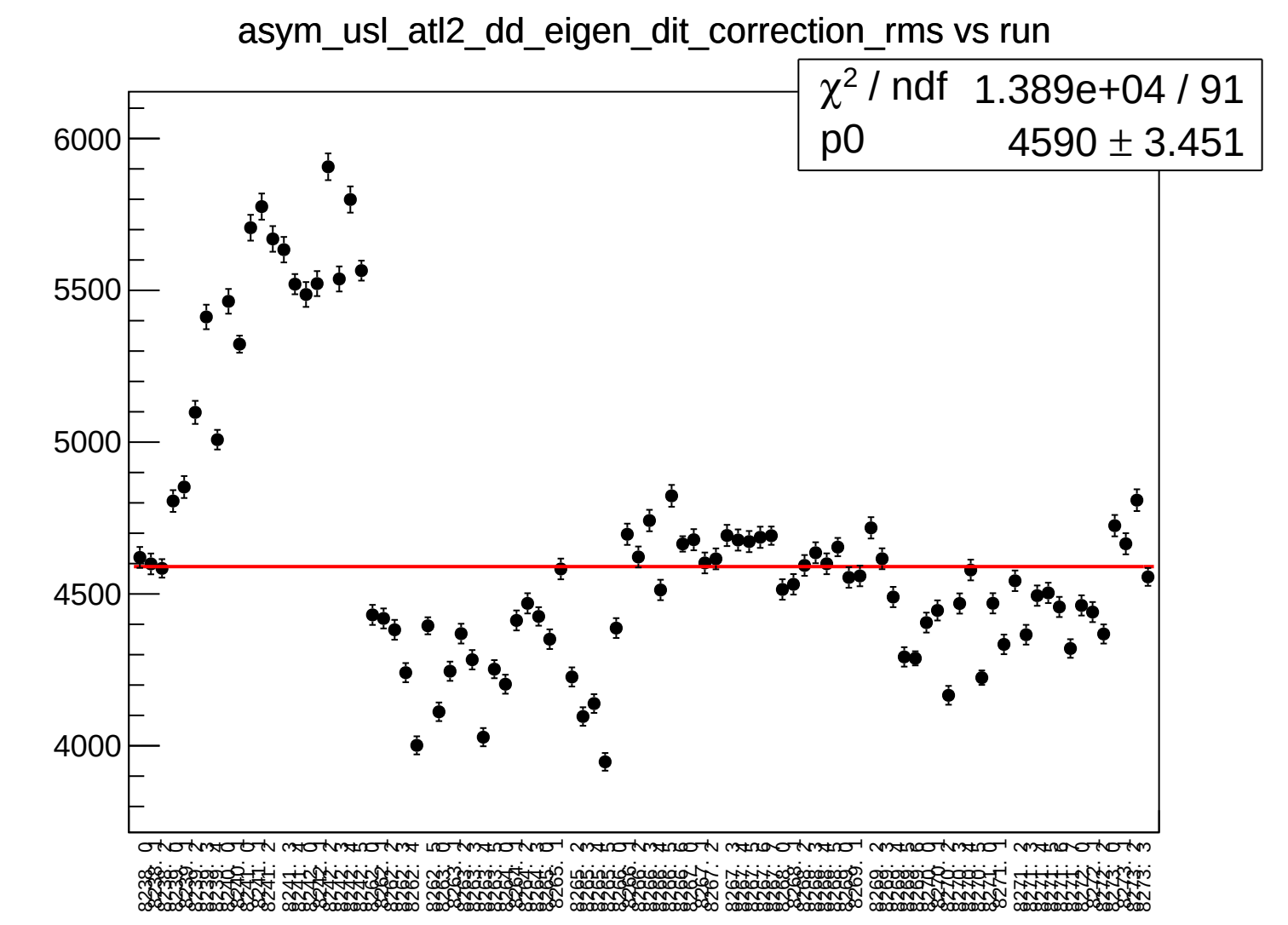

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 94.5 / 91
p0 688.3 ± 1114
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean 220.9
Std Dev 0
2
1
0
−1
−2

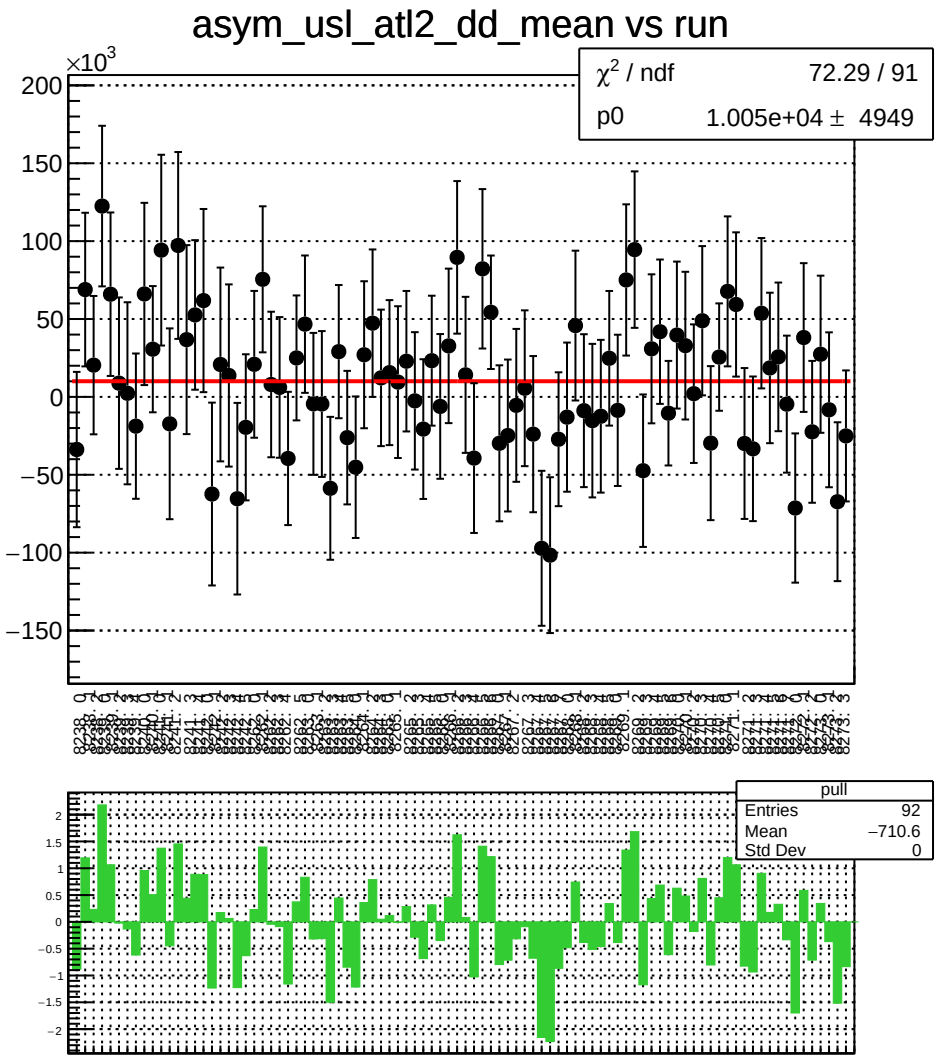

pull1D
Entries 92
Mean −0.01637
Std Dev 1.013
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

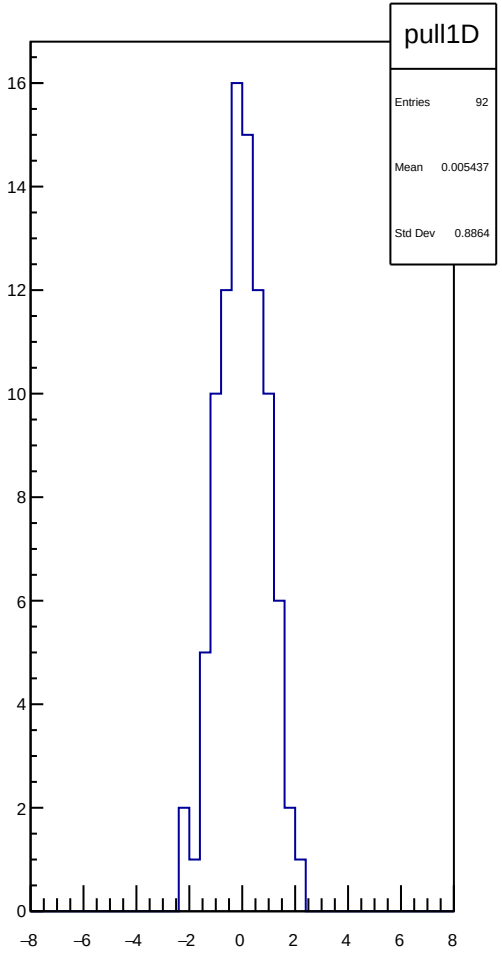

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 349.2 / 91
p0 1052 ± 0.7878
1160
1140
1120
1100
1080
1060
1040
1020

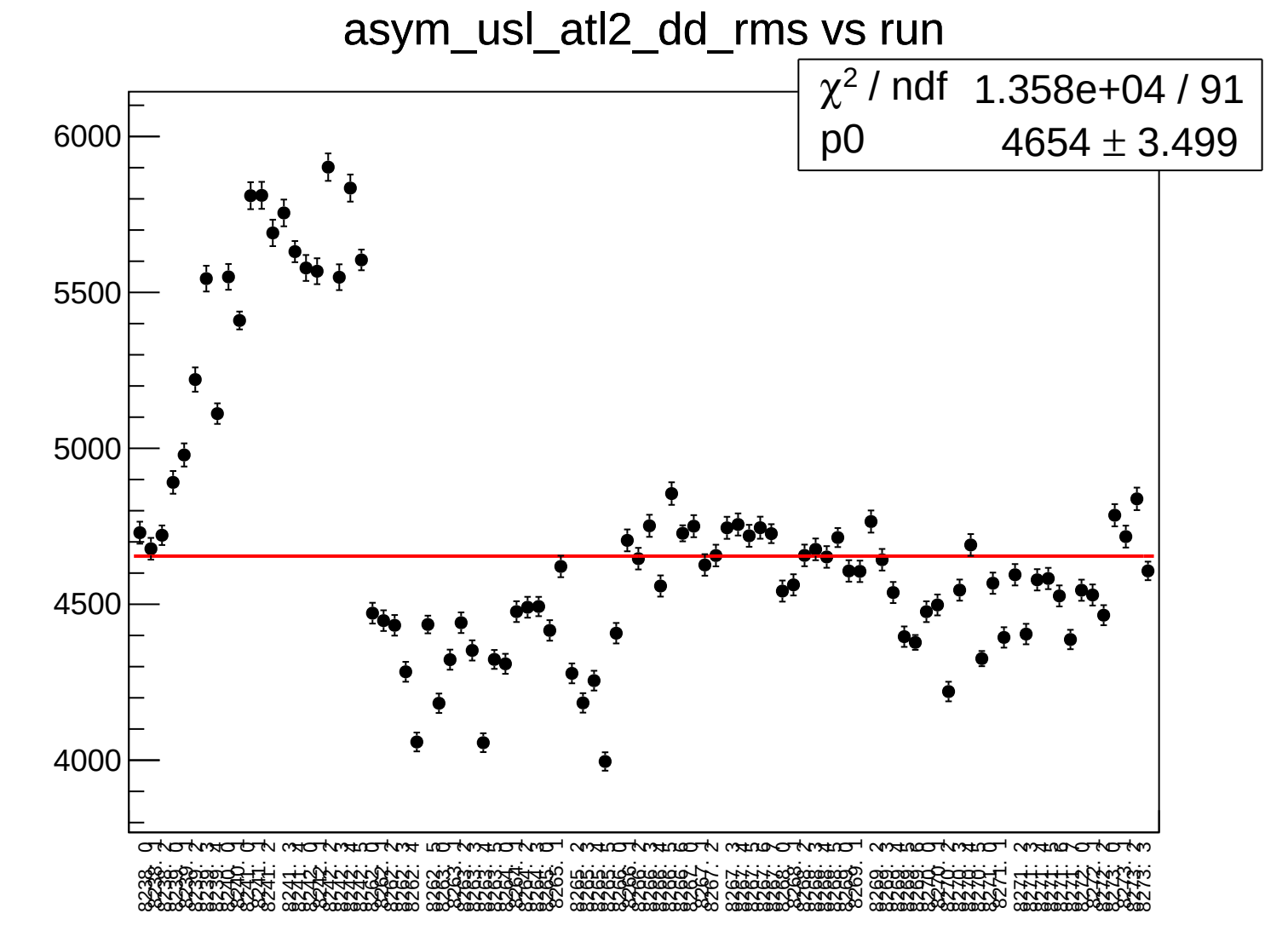

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.93 / 91
p0 −9635 ± 4881
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −509.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

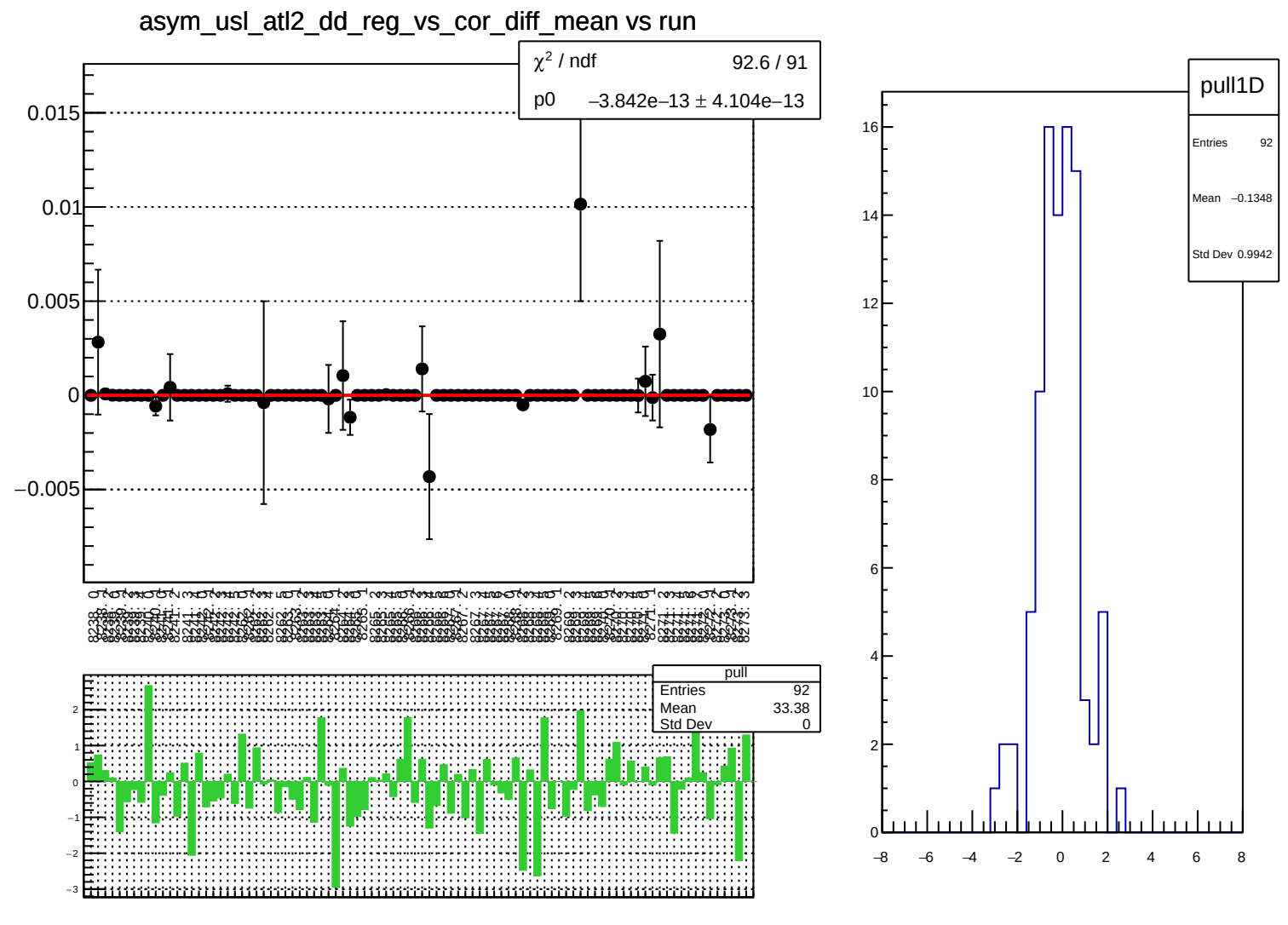

pull1D
Entries 92
Mean −0.006501
Std Dev 0.8656
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

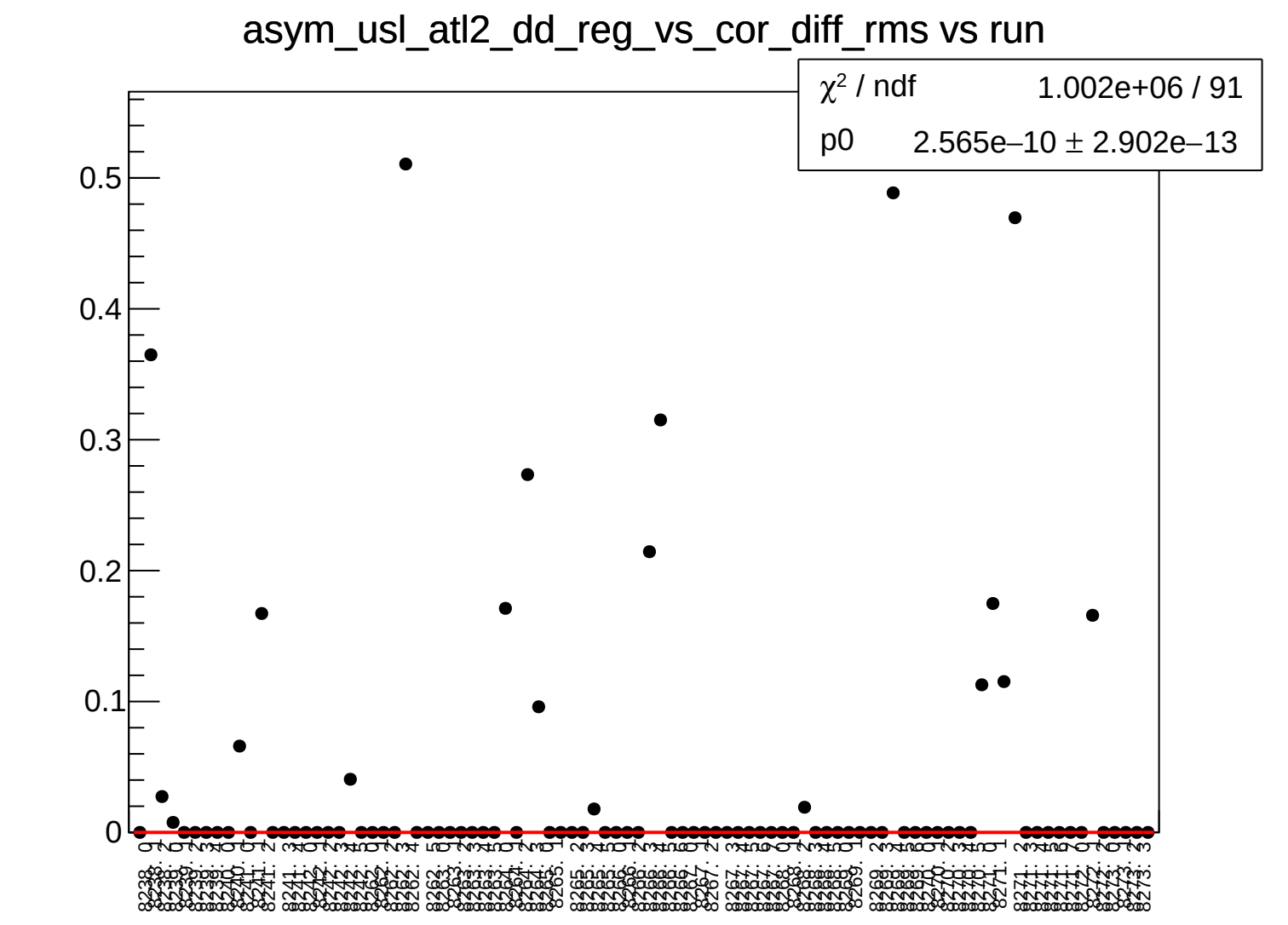

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.389e+04 / 91
p0 4590 ± 3.451
6000
5500
5000
4500
4000

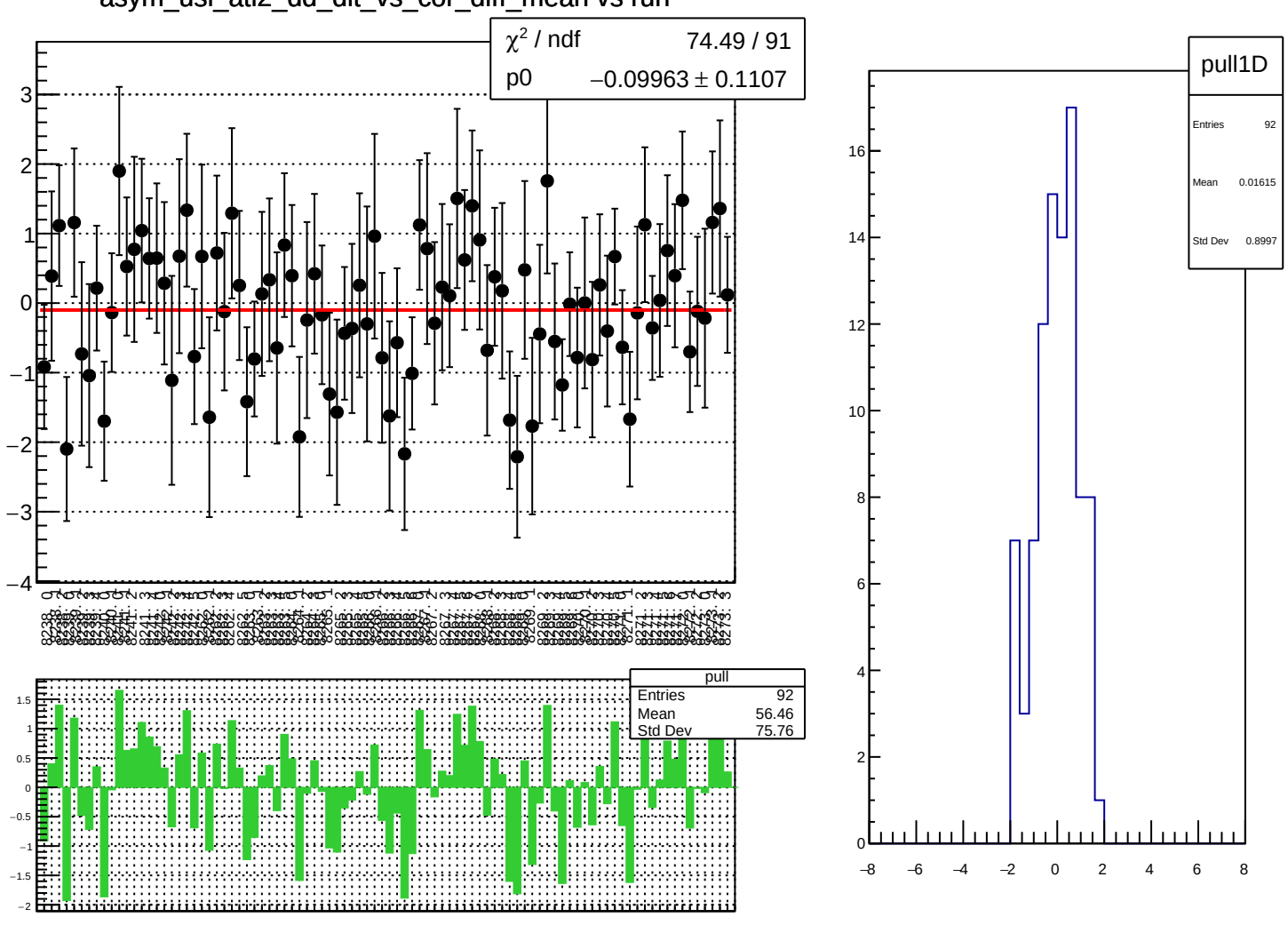

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 72.29 / 91
p0 1.005e+04 ± 4949
pull
Entries 92
Mean −710.6
Std Dev 0

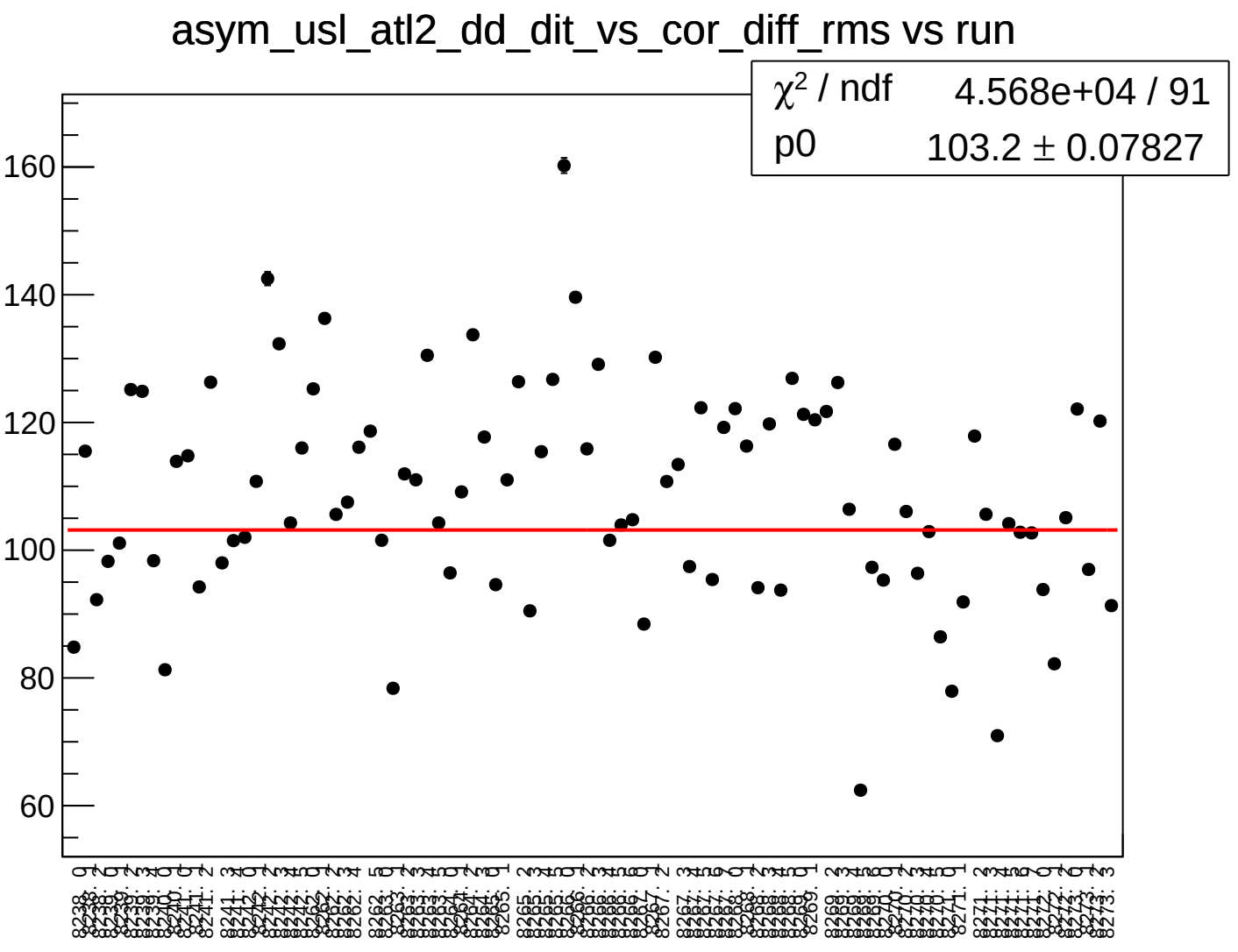

pull1D
Entries 92
Mean 0.005437
Std Dev 0.8864

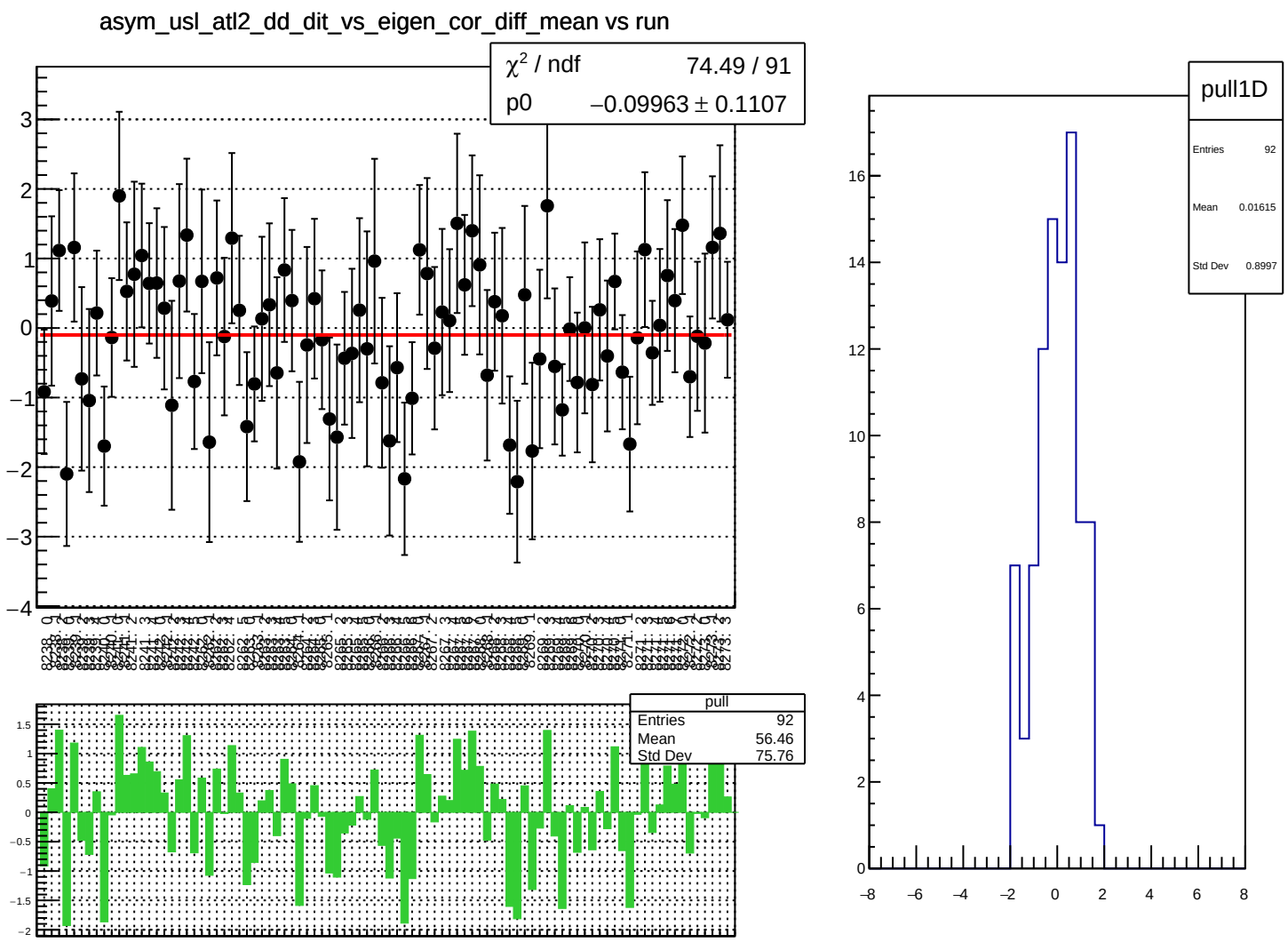

asym_usl_atl2_dd_rms vs run
χ² / ndf 1.358e+04 / 91
p0 4654 ± 3.499
6000
5500
5000
4500
4000

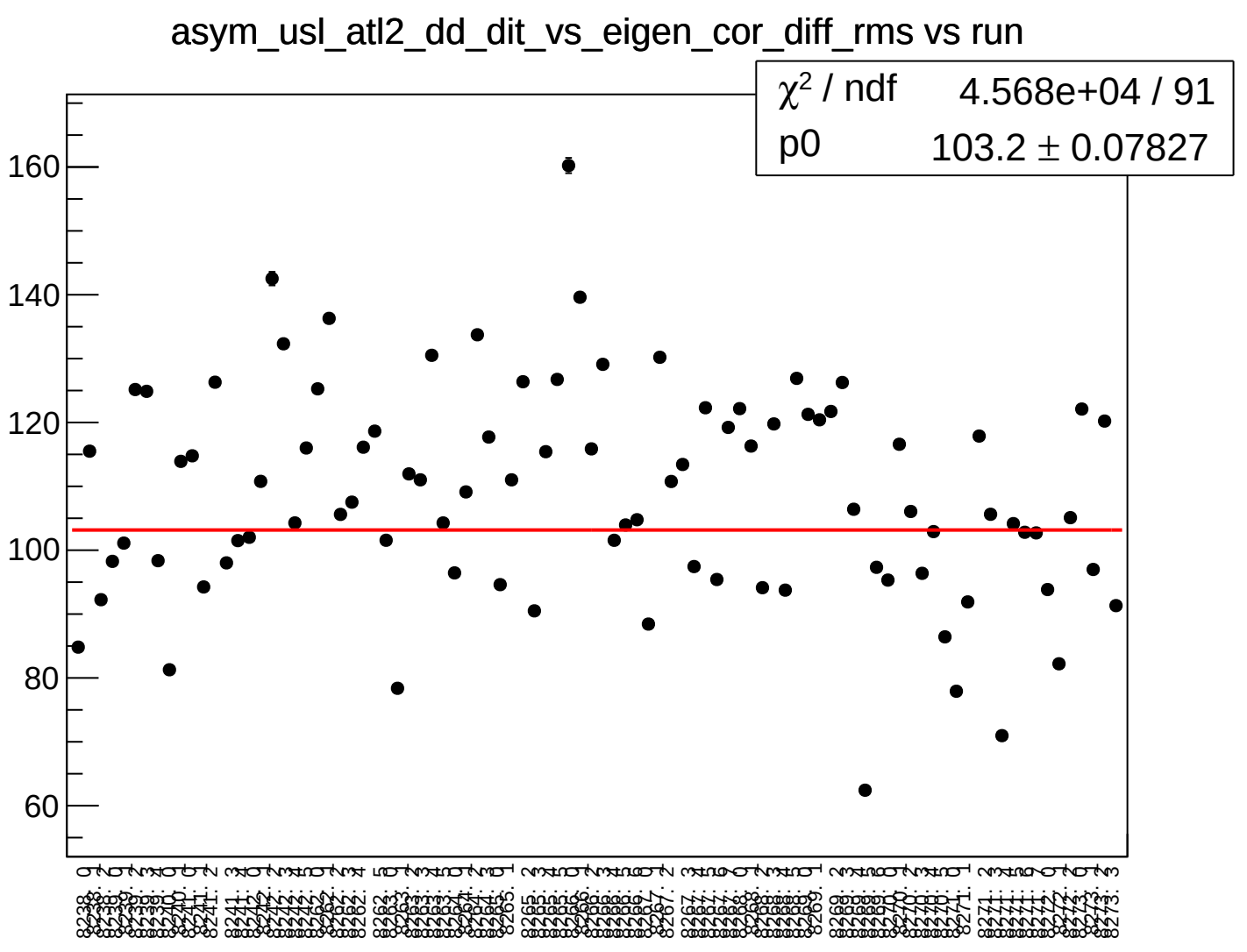

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.6 / 91
p0 −3.842e−13 ± 4.104e−13
0.015
0.01
0.005
0
−0.005
pull
Entries 92
Mean 33.38
Std Dev 0
pull1D
Entries 92
Mean −0.1348
Std Dev 0.9942

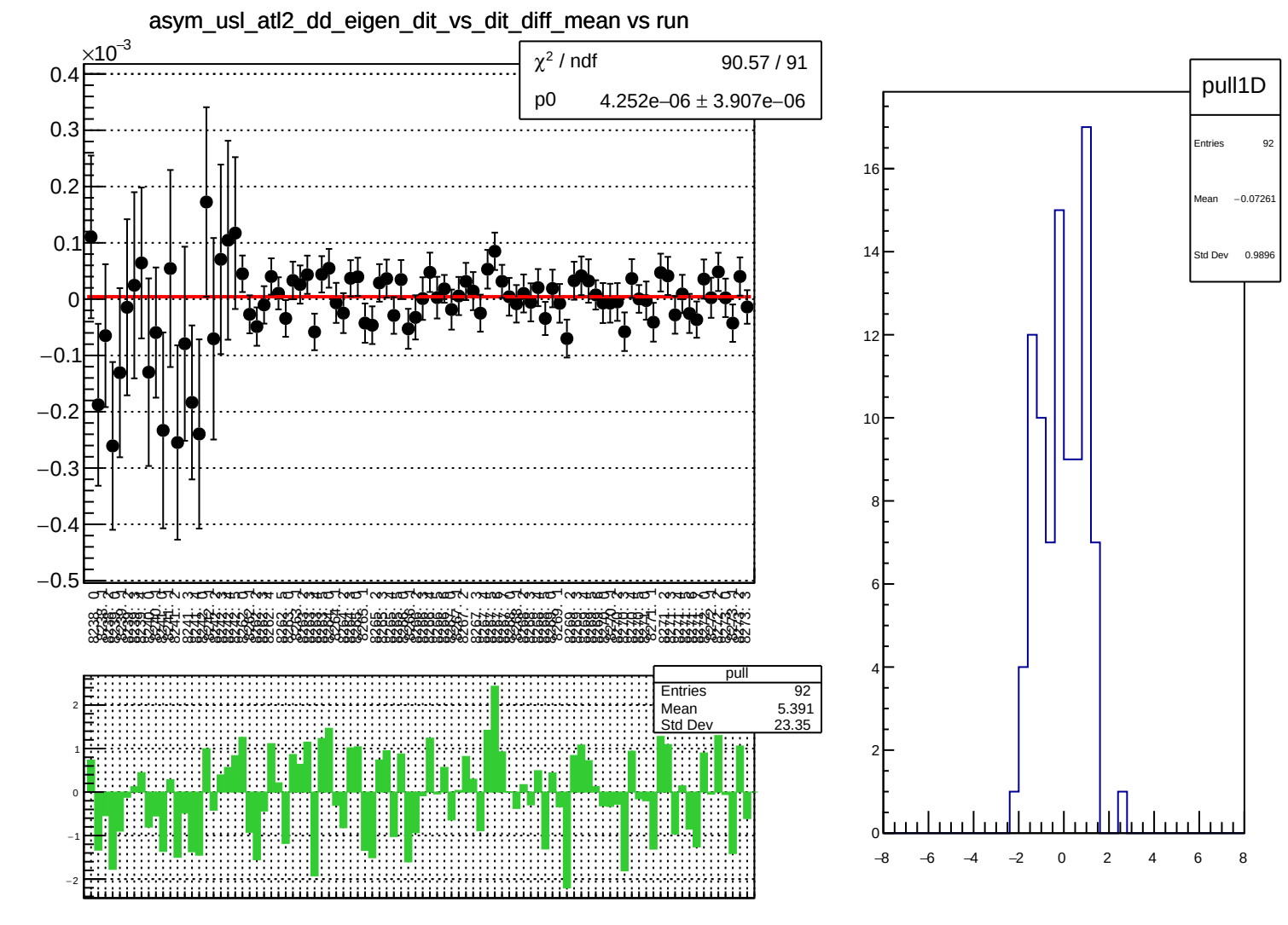

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.002e+06 / 91
p0 2.565e−10 ± 2.902e−13
0.5
0.4
0.3
0.2
0.1
0

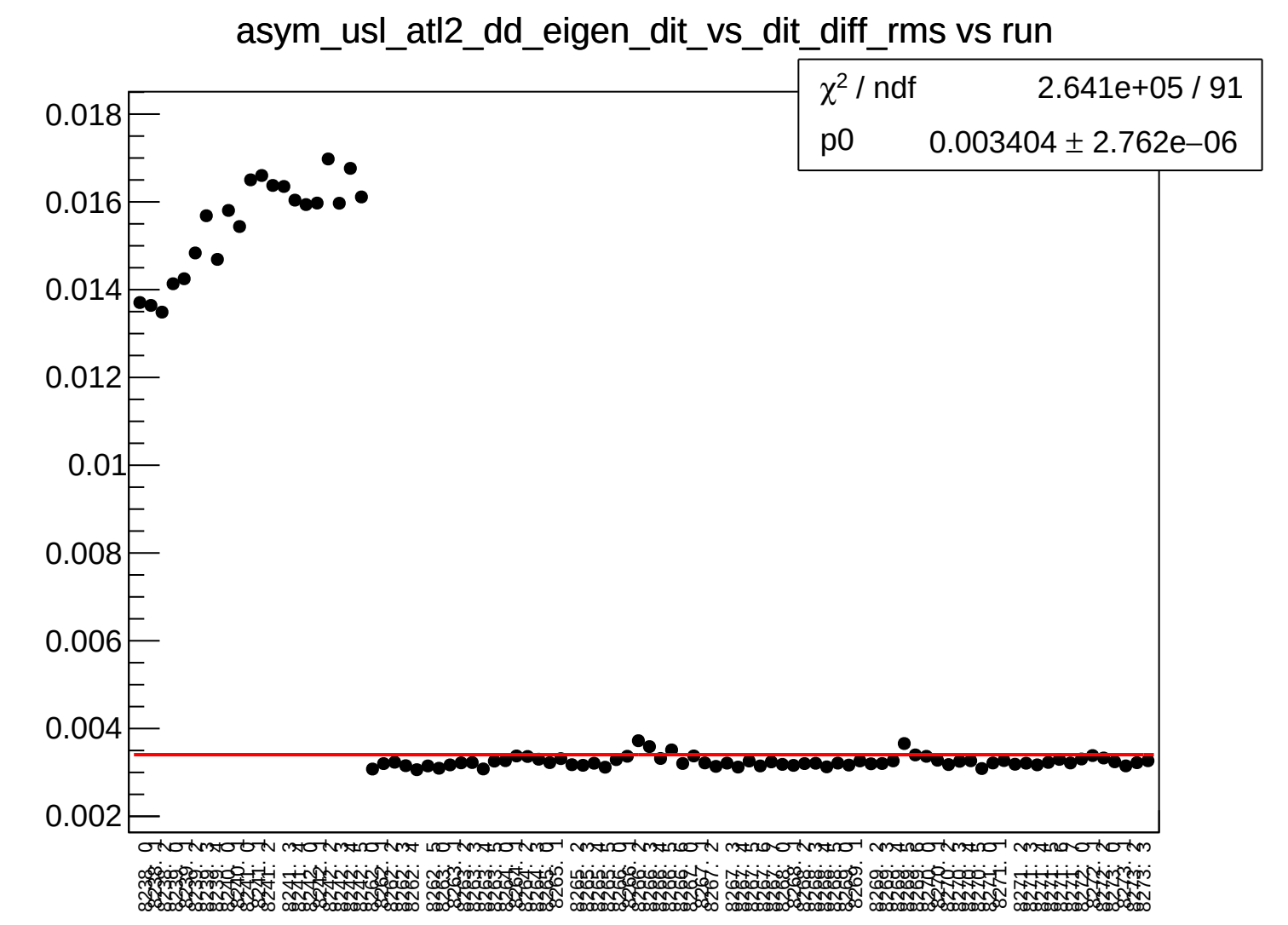

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.49 / 91
p0 −0.09963 ± 0.1107
pull
Entries 92
Mean 56.46
Std Dev 75.76
pull1D
Entries 92
Mean 0.01615
Std Dev 0.8997

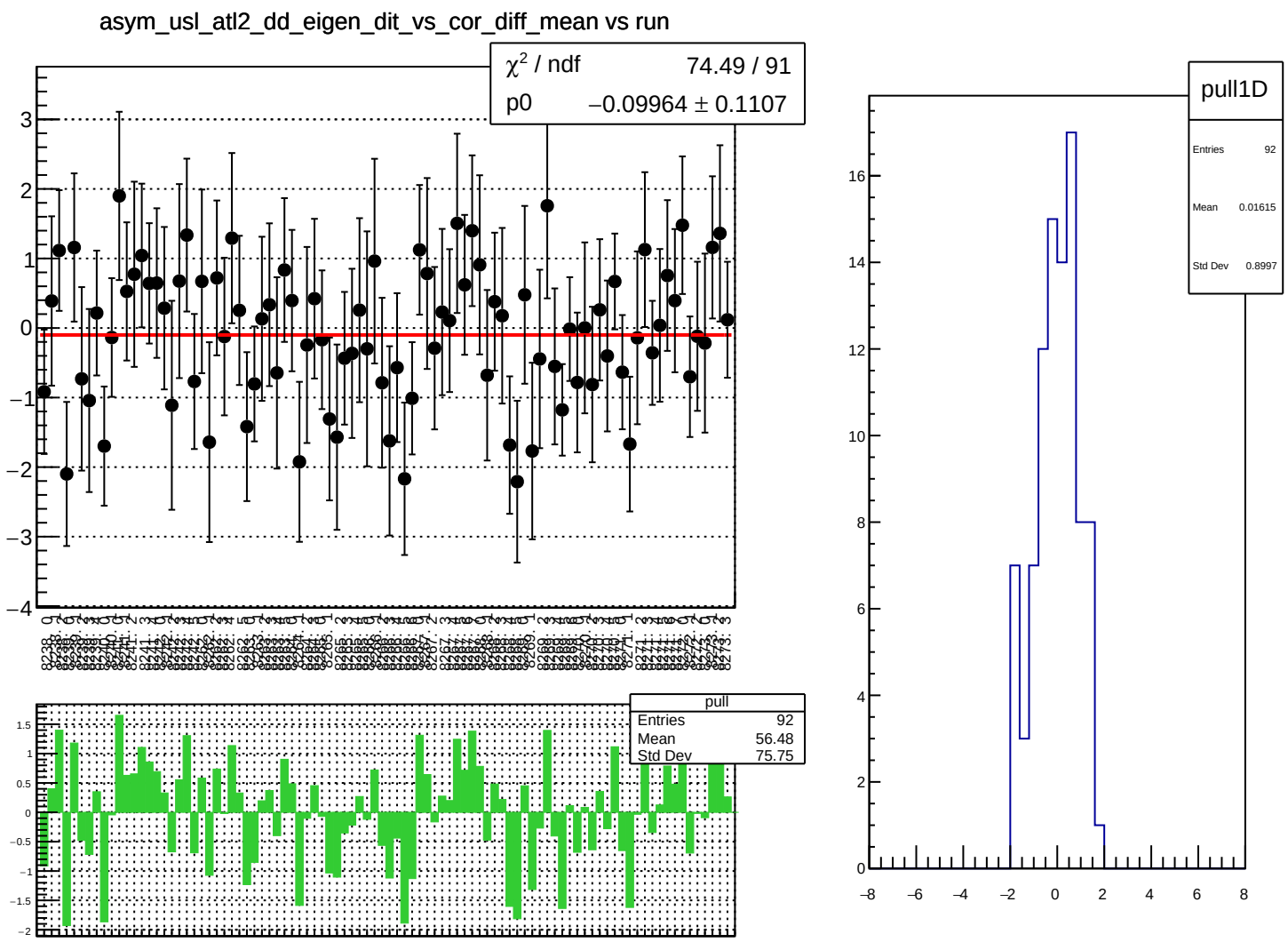

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.568e+04 / 91
p0 103.2 ± 0.07827
160
140
120
100
80
60

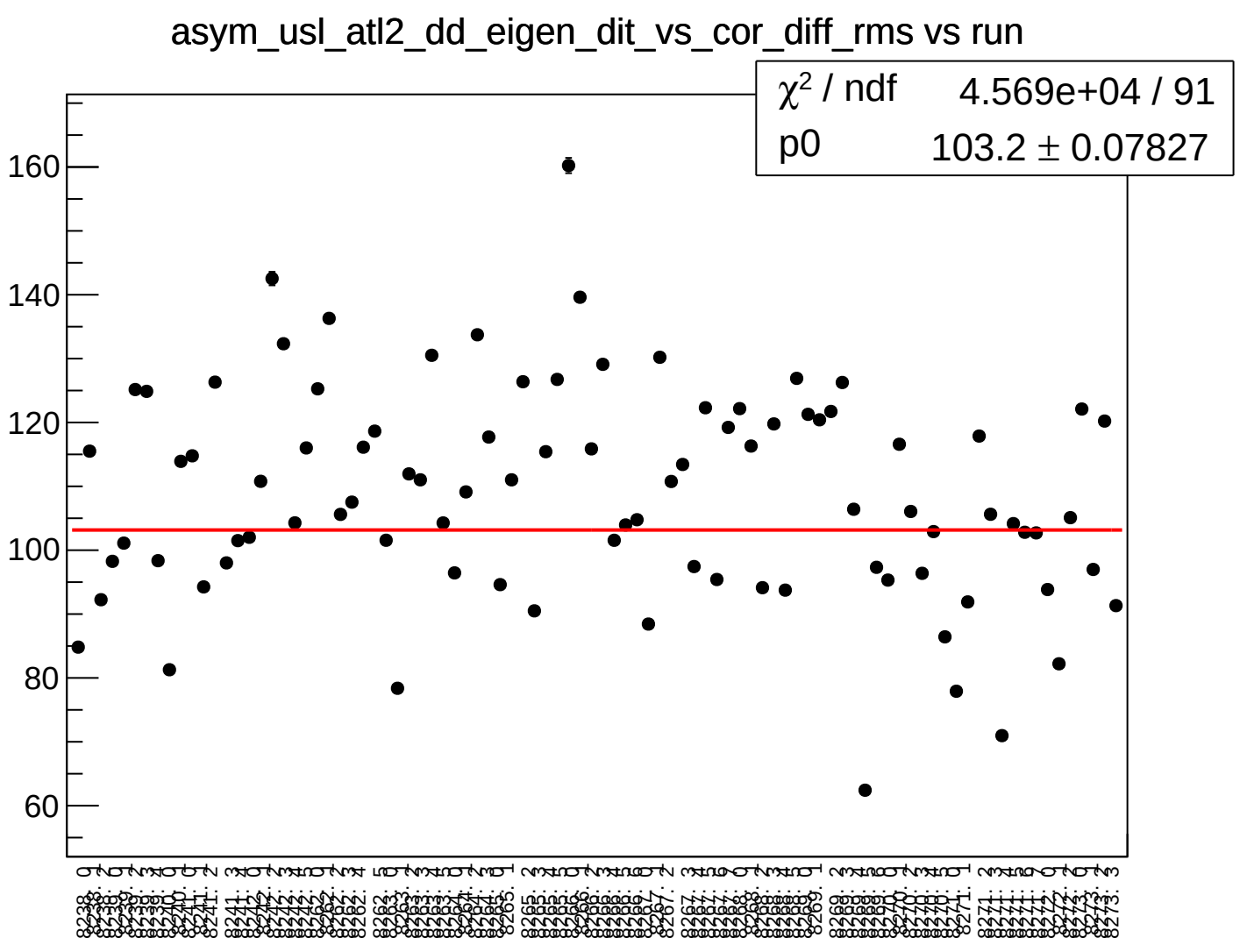

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.49 / 91
p0 −0.09963 ± 0.1107
pull
Entries 92
Mean 56.46
Std Dev 75.76
pull1D
Entries 92
Mean 0.01615
Std Dev 0.8997

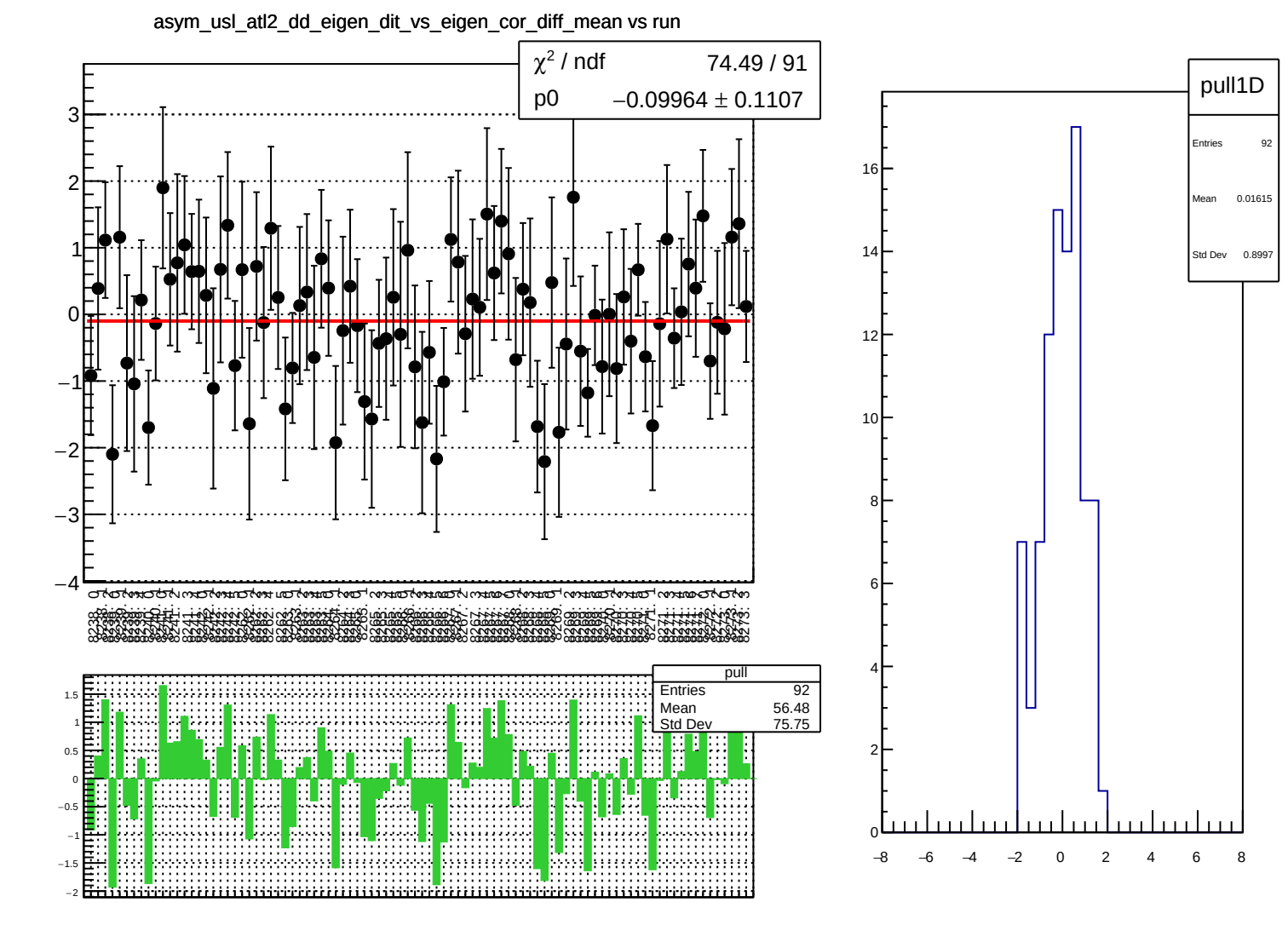

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.568e+04 / 91
p0 103.2 ± 0.07827
160
140
120
100
80
60

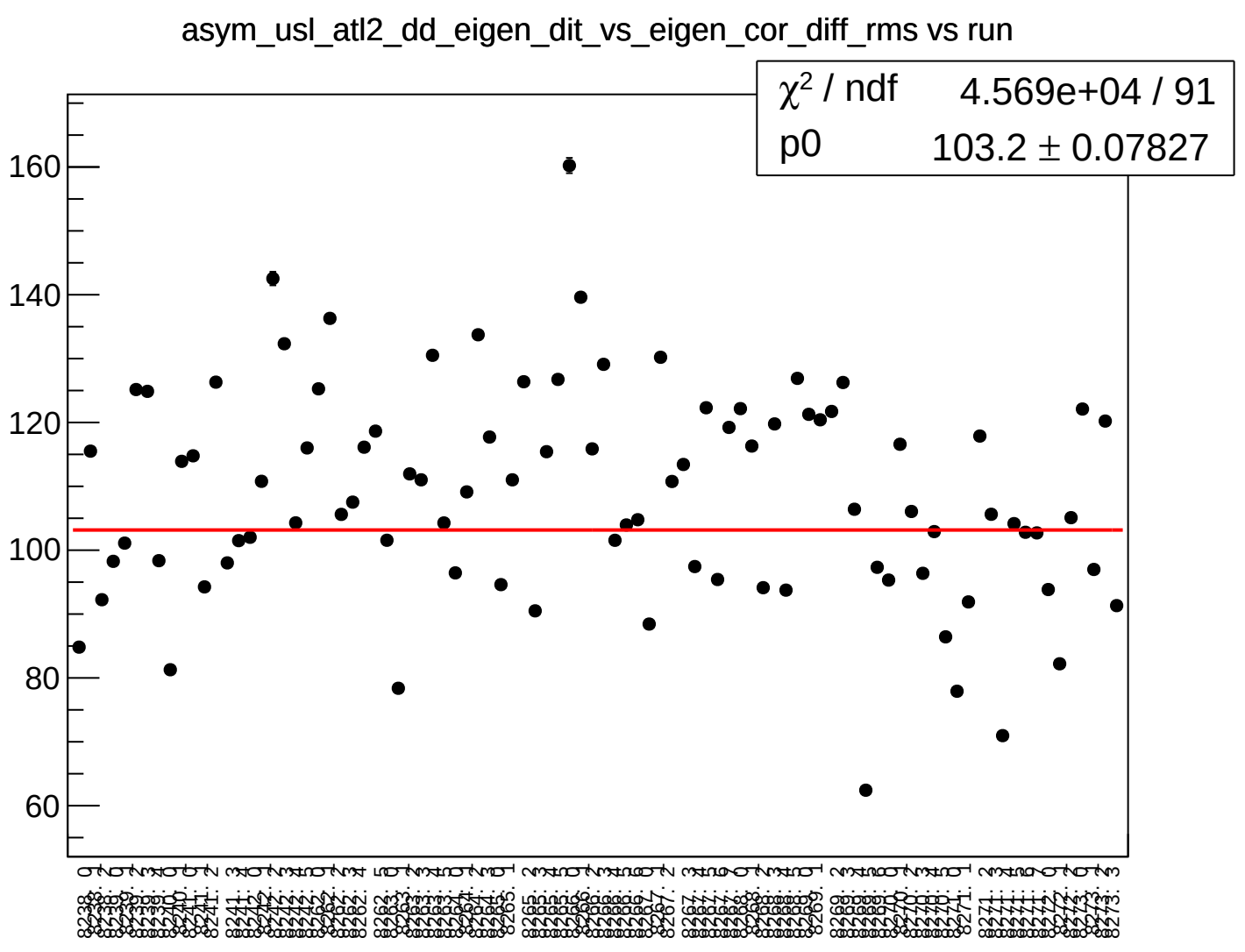

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 90.57 / 91
p0 4.252e−06 ± 3.907e−06
pull
Entries 92
Mean 5.391
Std Dev 23.35
pull1D
Entries 92
Mean −0.07261
Std Dev 0.9896

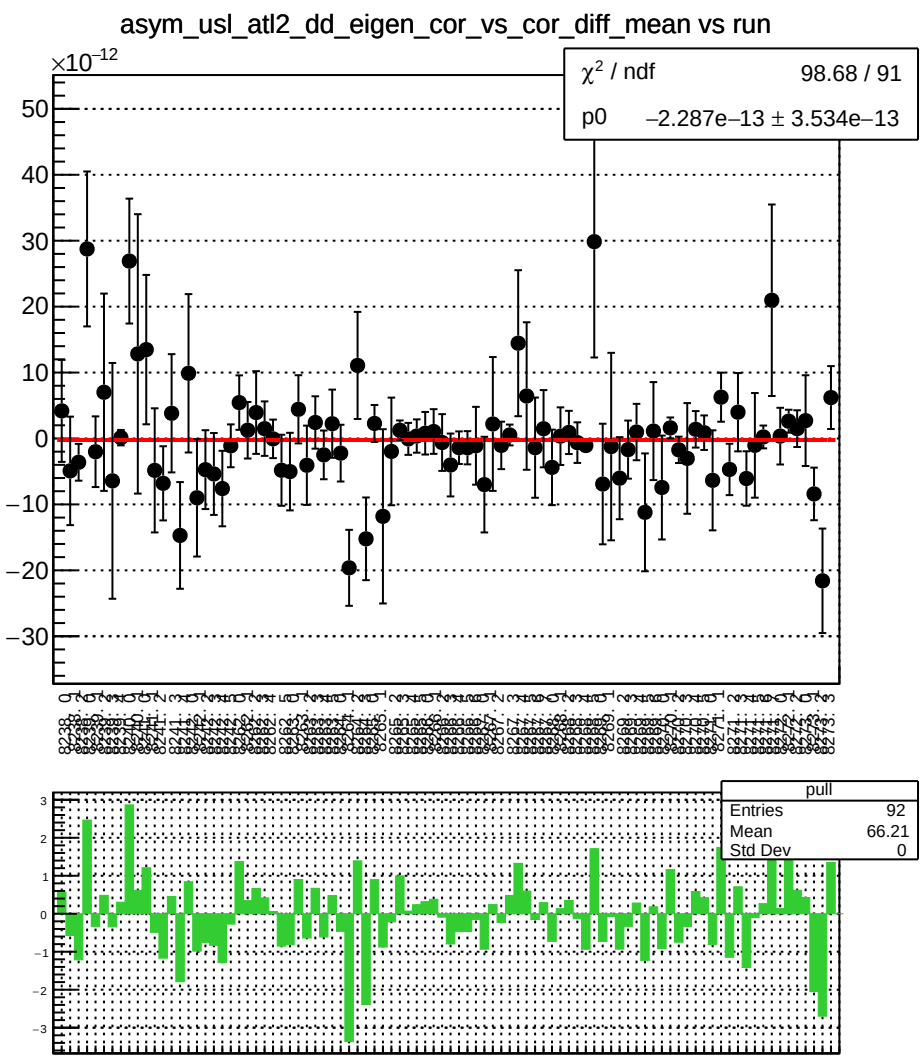

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.641e+05 / 91
p0 0.003404 ± 2.762e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

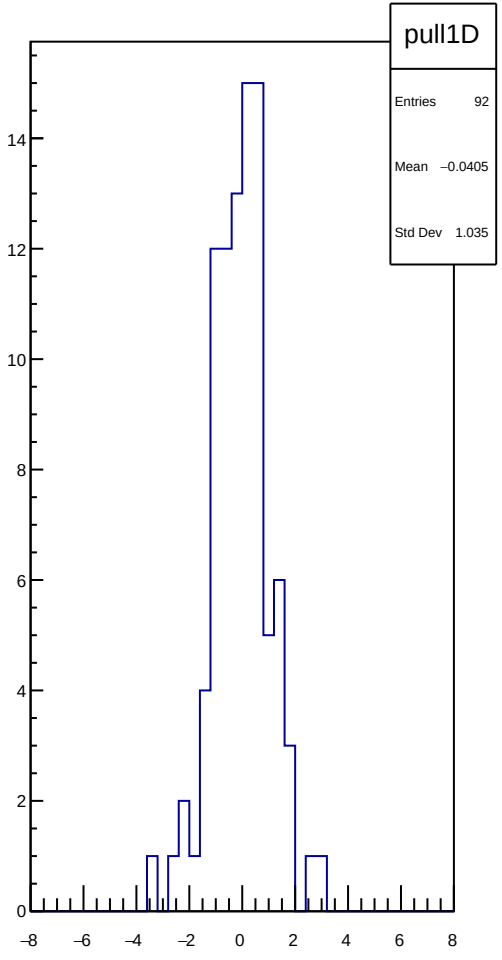

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.49 / 91
p0 −0.09964 ± 0.1107
pull
Entries 92
Mean 56.48
Std Dev 75.75
pull1D
Entries 92
Mean 0.01615
Std Dev 0.8997

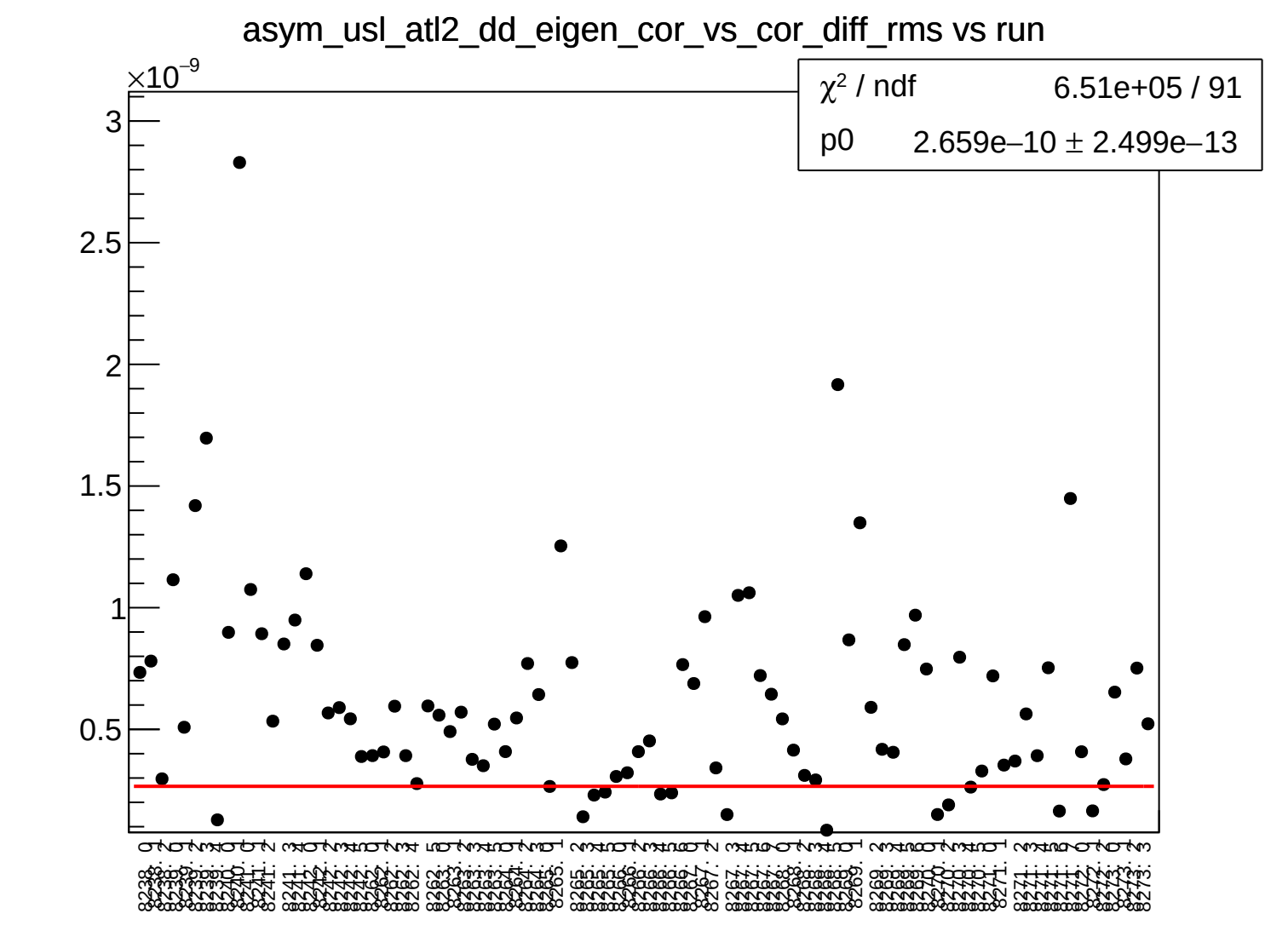

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.569e+04 / 91
p0 103.2 ± 0.07827
160
140
120
100
80
60

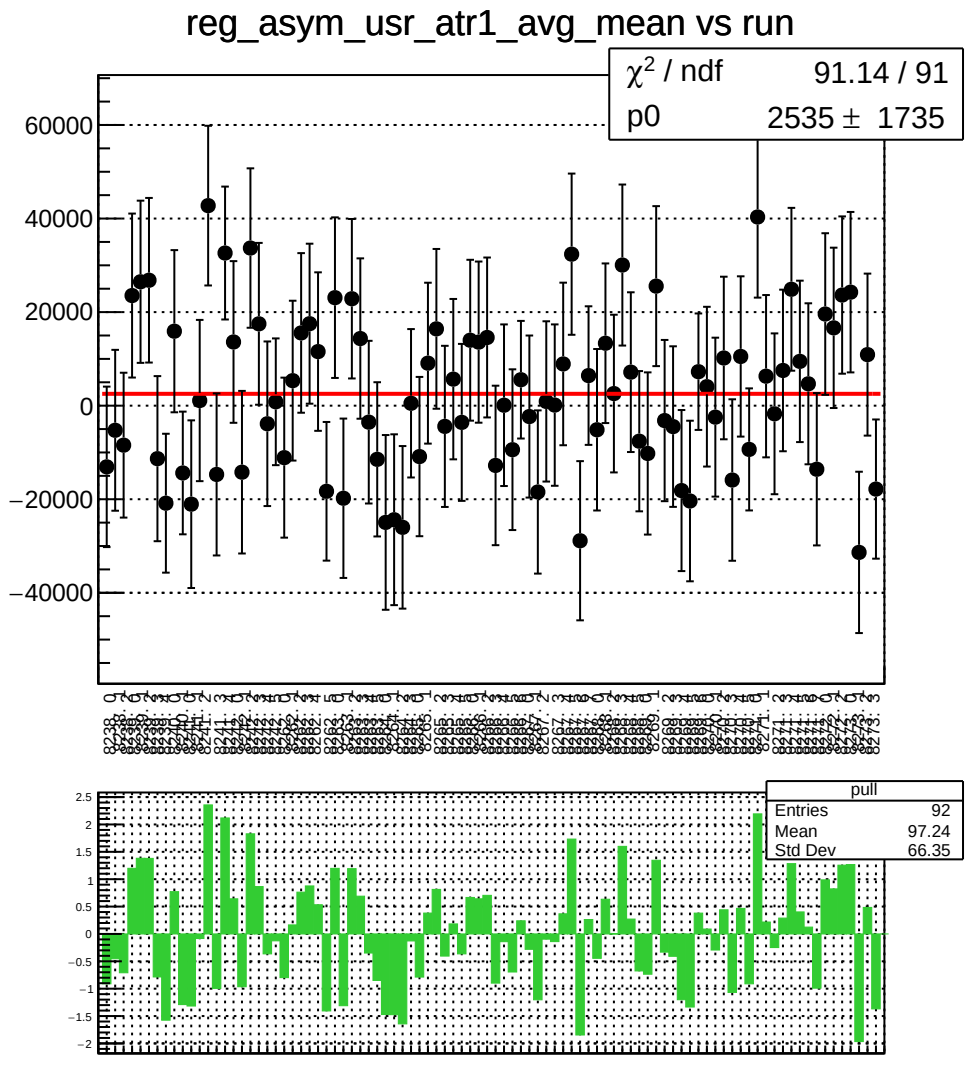

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.49 / 91
p0 −0.09964 ± 0.1107
pull
Entries 92
Mean 56.48
Std Dev 75.75
pull1D
Entries 92
Mean 0.01615
Std Dev 0.8997

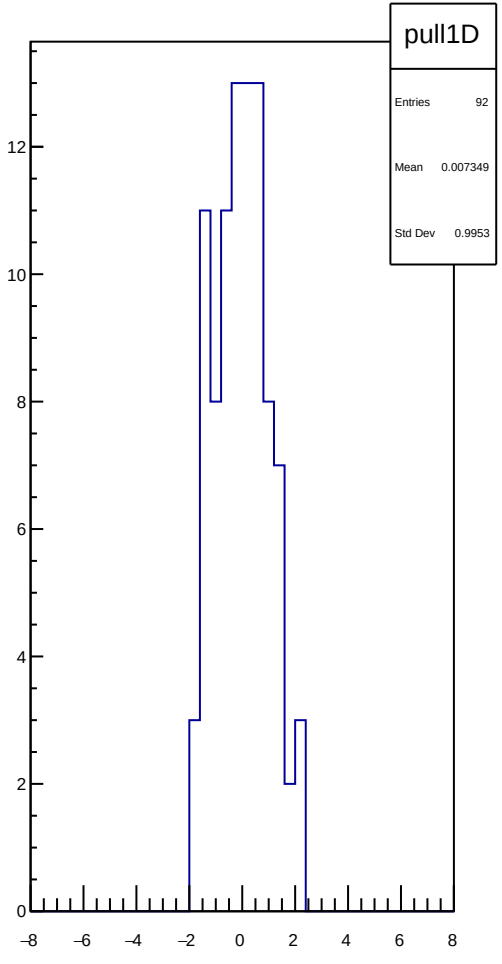

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.569e+04 / 91
p0 103.2 ± 0.07827
160
140
120
100
80
60

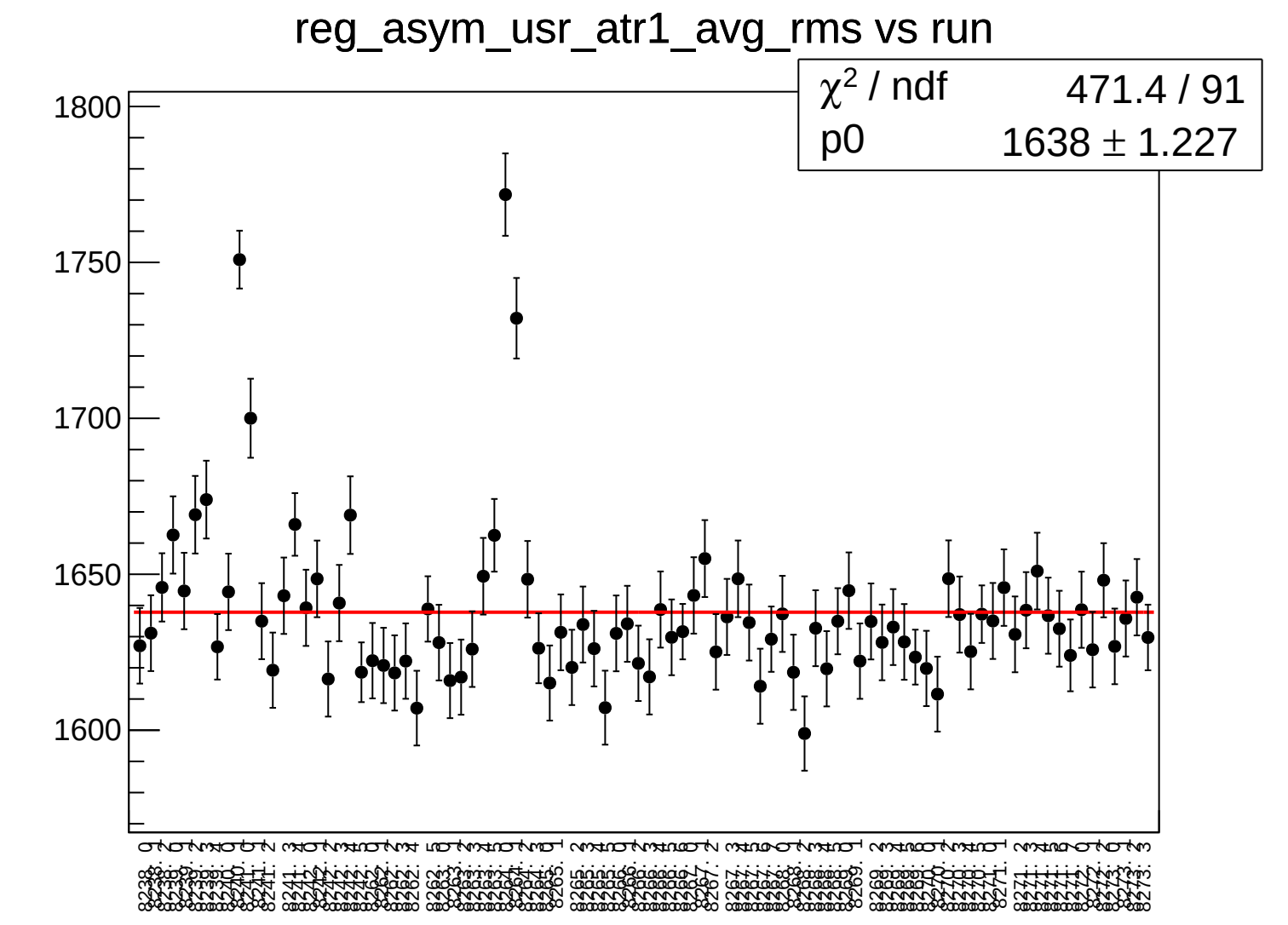

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.68 / 91
p0 −2.287e−13 ± 3.534e−13
pull
Entries 92
Mean 66.21
Std Dev 0

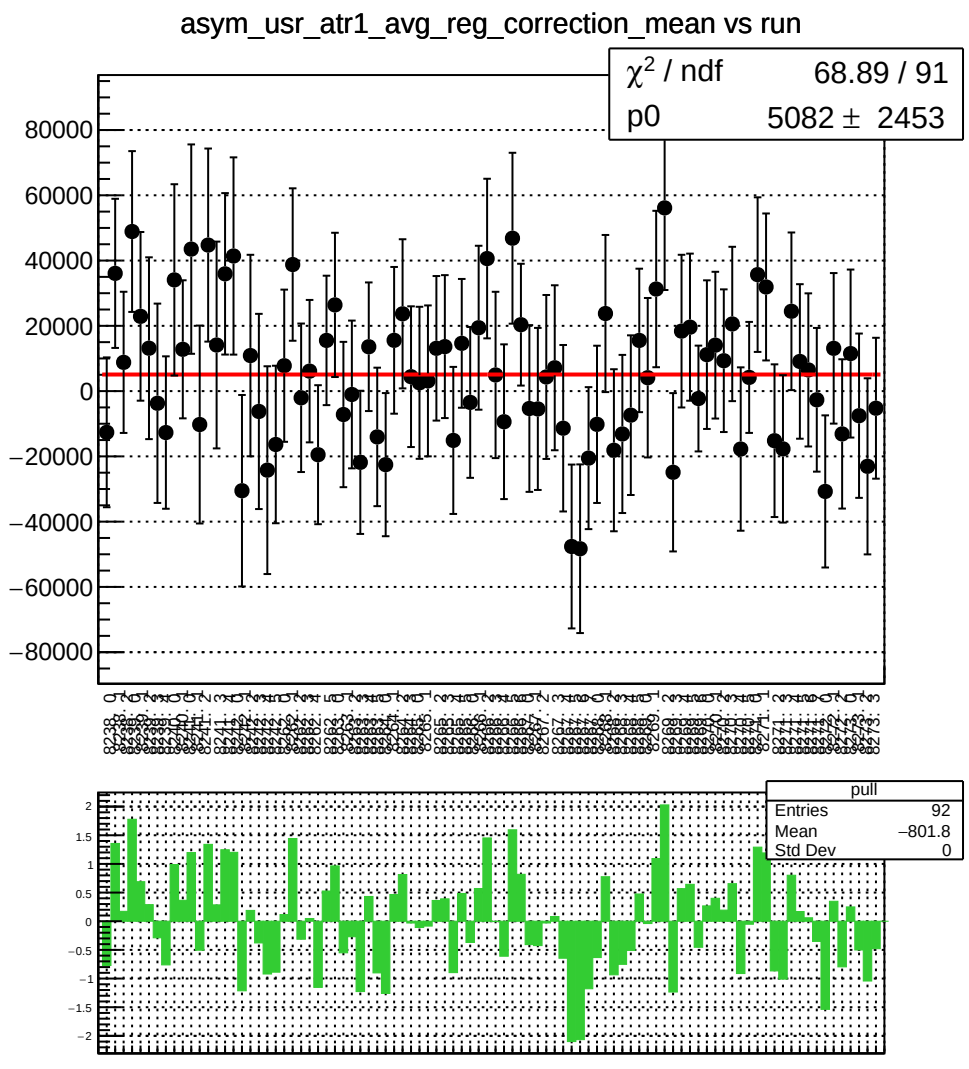

pull1D
Entries 92
Mean −0.0405
Std Dev 1.035

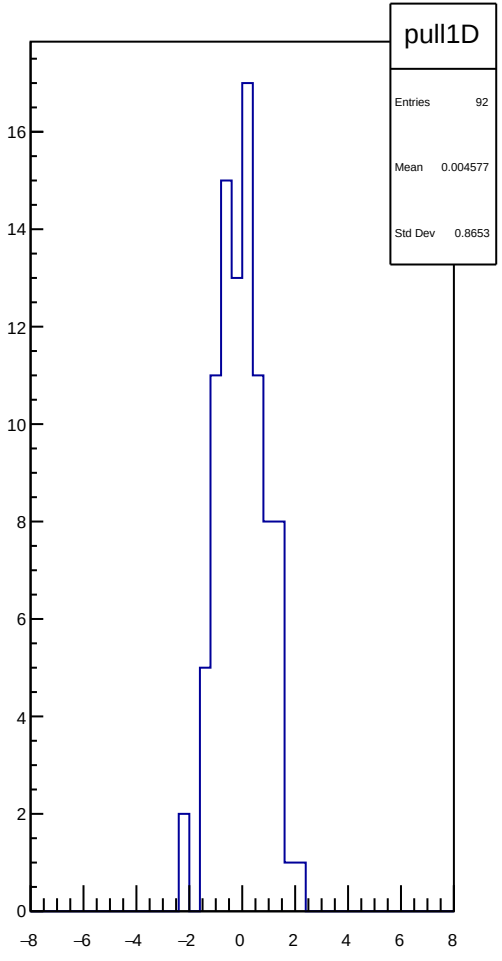

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.51e+05 / 91
p0 2.659e−10 ± 2.499e−13
3
2.5
2
1.5
1
0.5

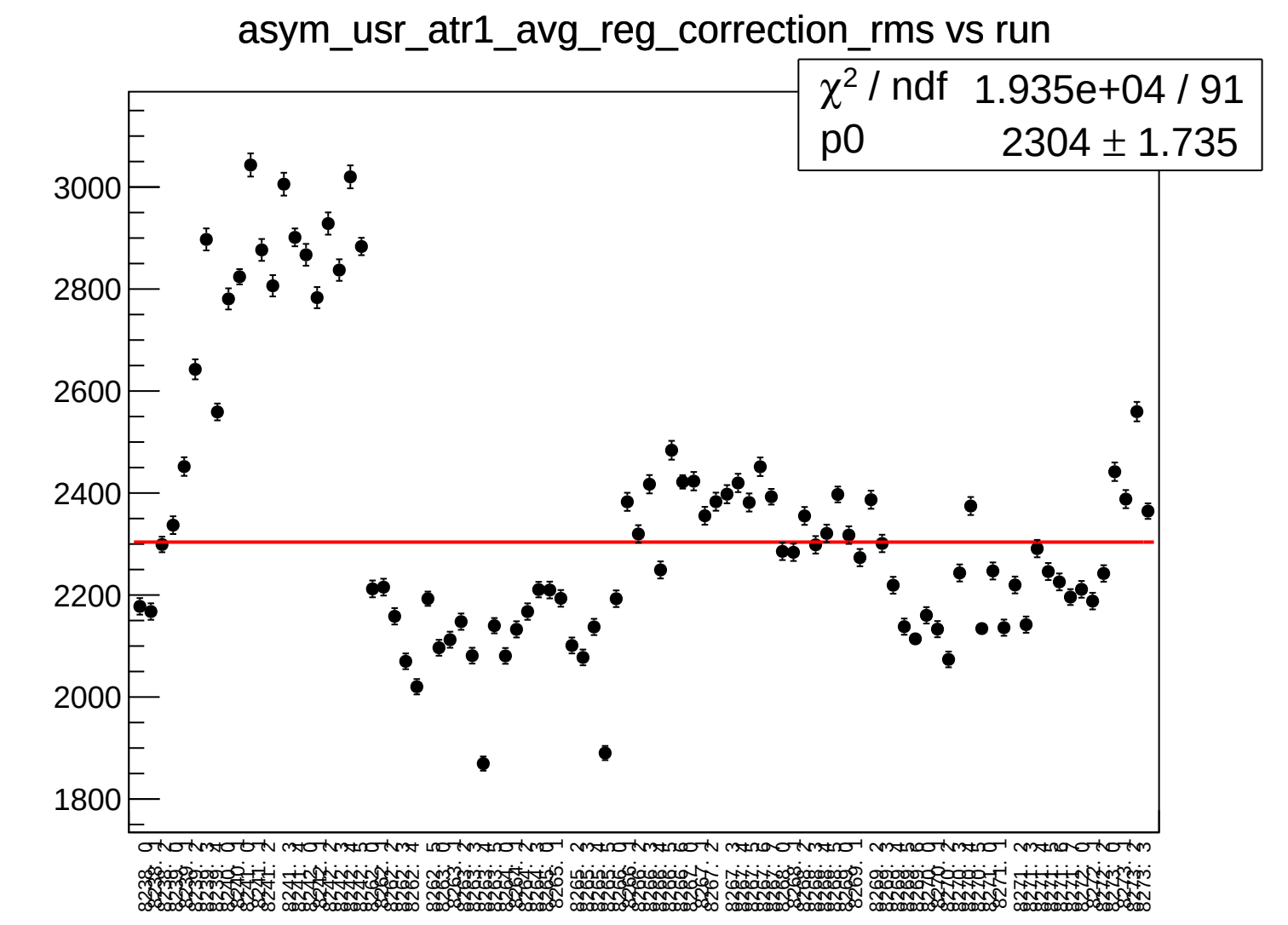

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 91.14 / 91
p0 2535 ± 1735
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 97.24
Std Dev 66.35
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

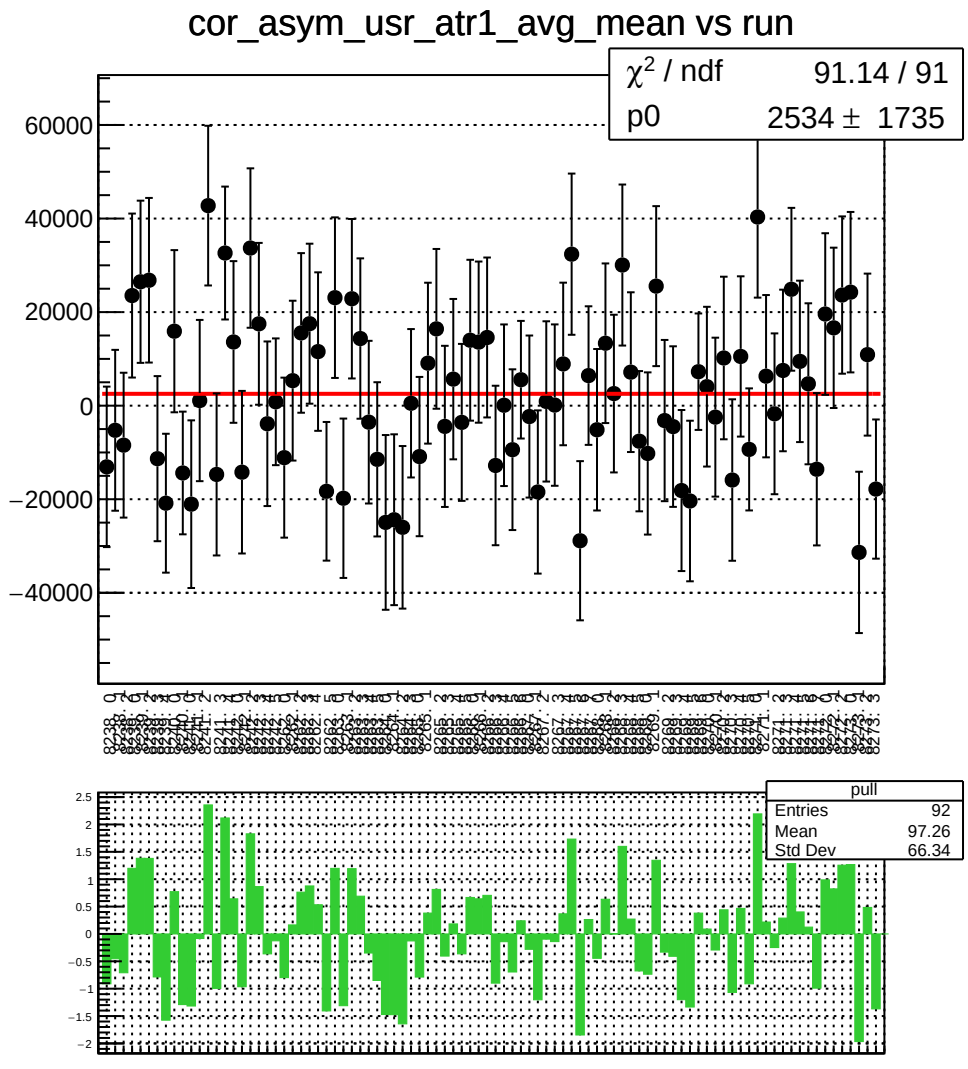

pull1D
Entries 92
Mean 0.007349
Std Dev 0.9953
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

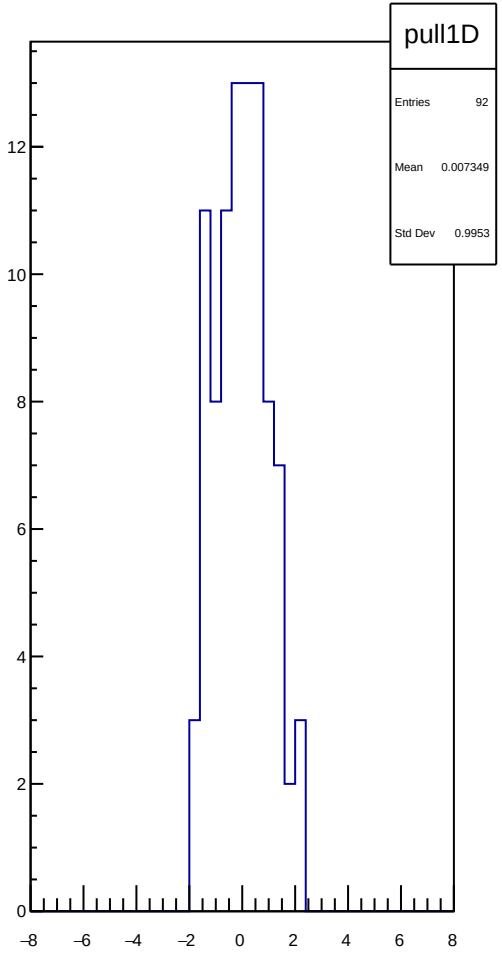

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 471.4 / 91
p0 1638 ± 1.227
1800
1750
1700
1650
1600

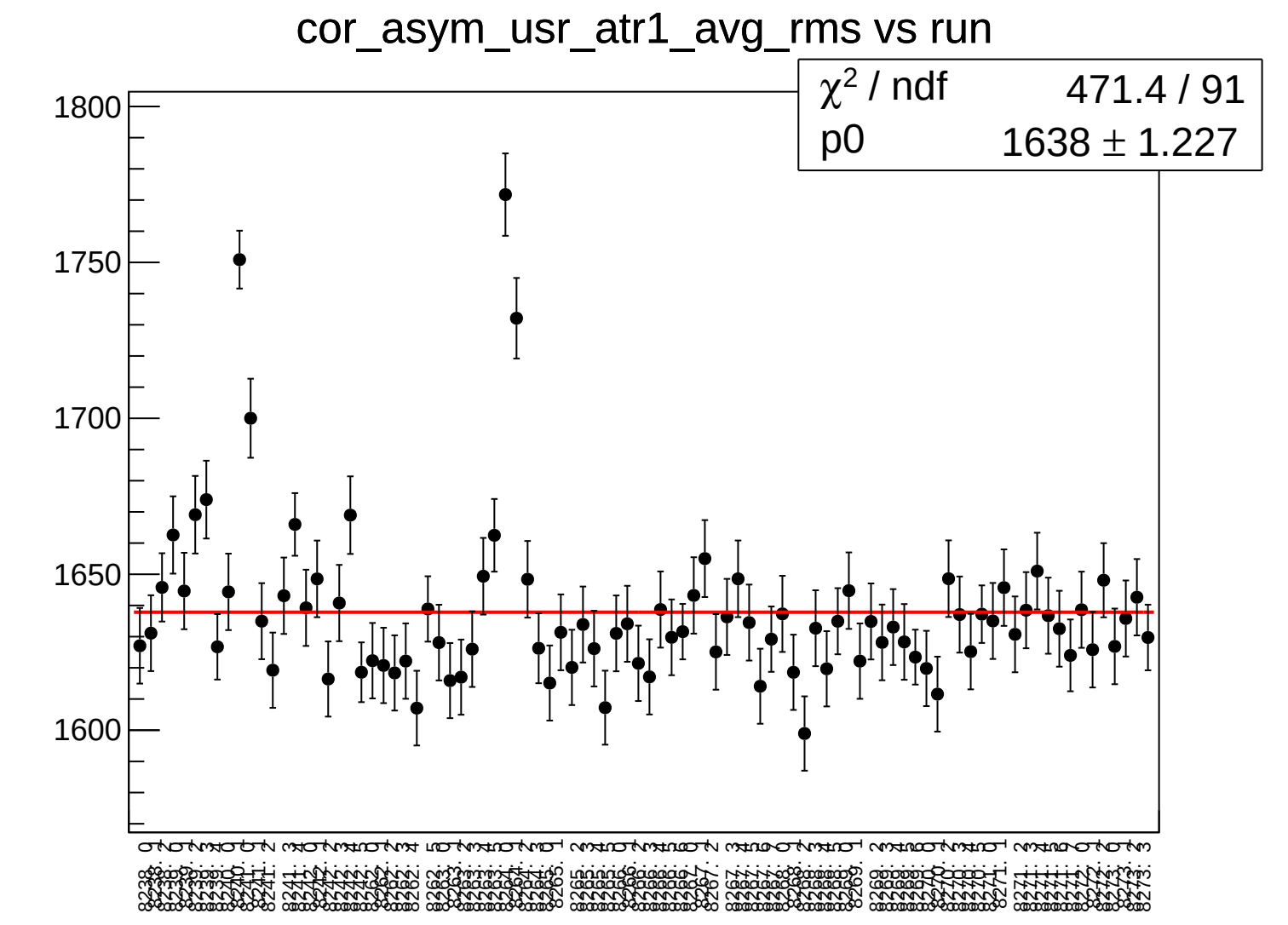

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 68.89 / 91
p0 5082 ± 2453
pull
Entries 92
Mean −801.8
Std Dev 0

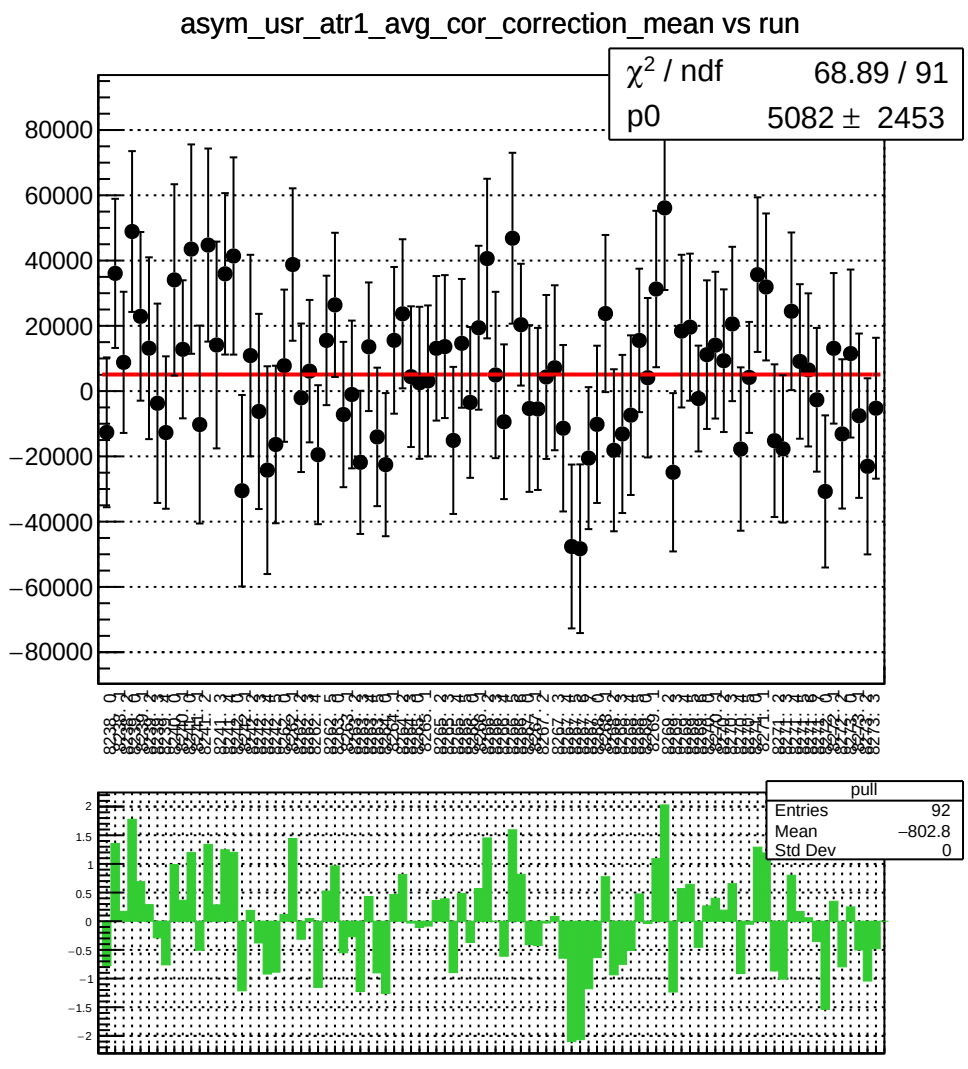

pull1D
Entries 92
Mean 0.004577
Std Dev 0.8653

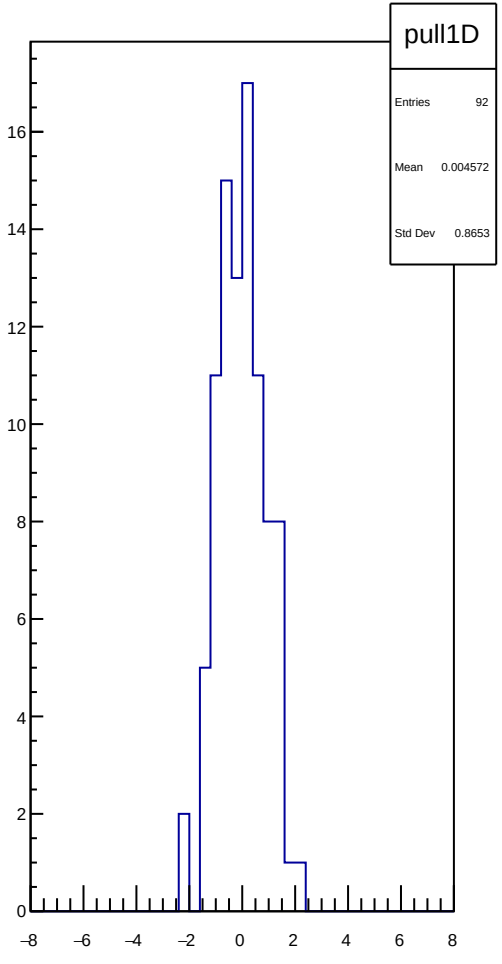

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 1.935e+04 / 91
p0 2304 ± 1.735
3000
2800
2600
2400
2200
2000
1800

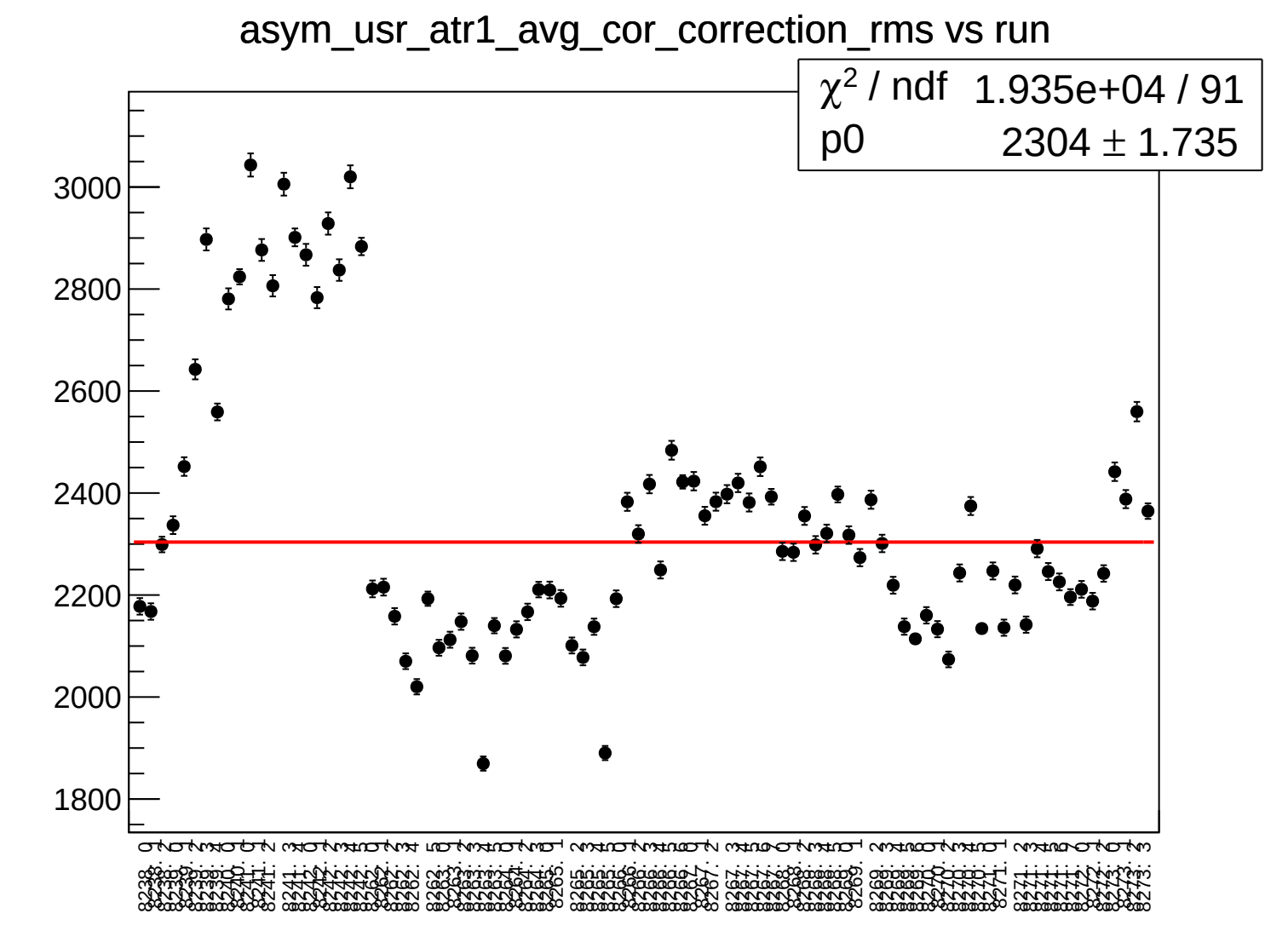

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 91.14 / 91
p0 2534 ± 1735
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 97.26
Std Dev 66.34
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

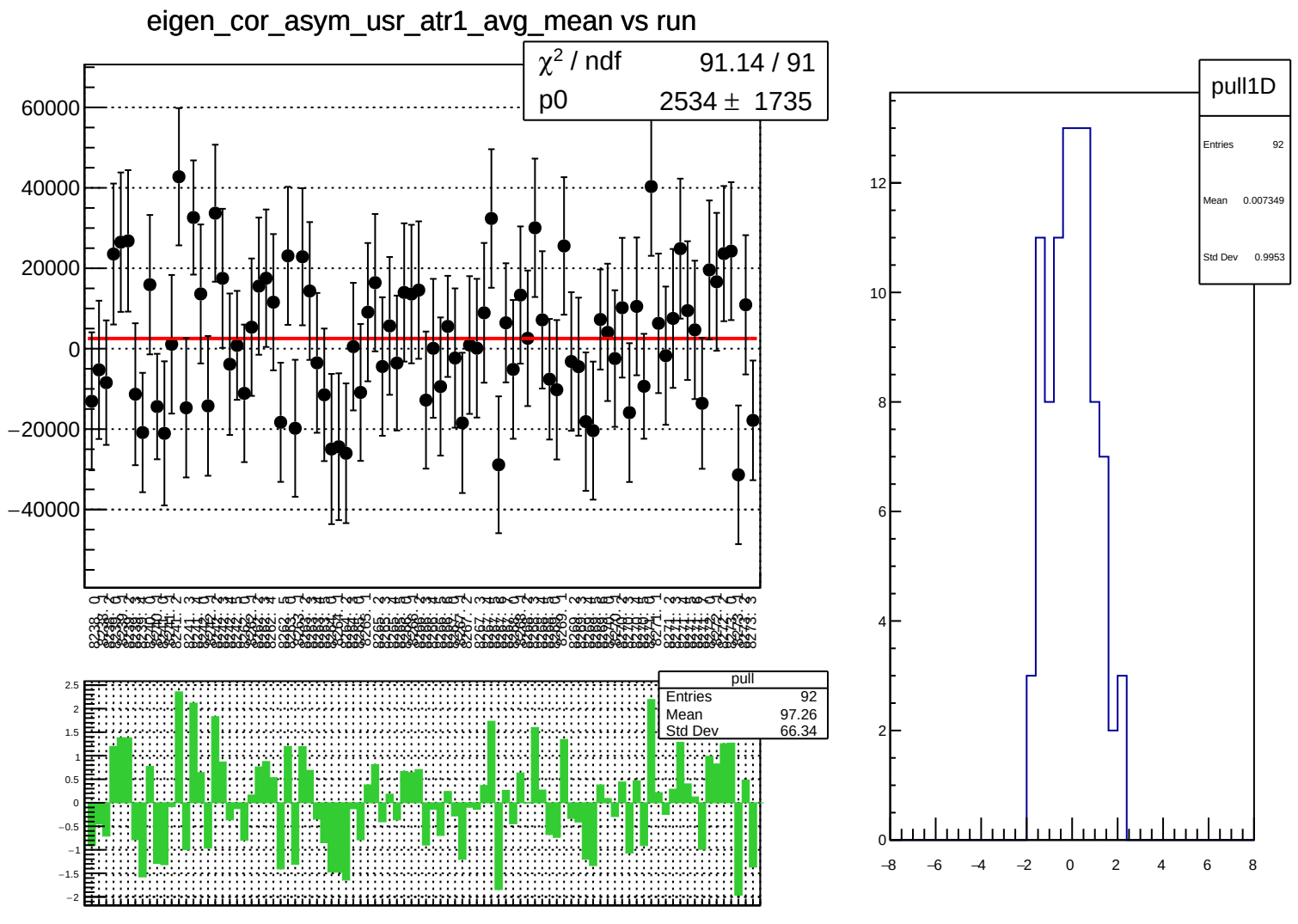

pull1D
Entries 92
Mean 0.007349
Std Dev 0.9953
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

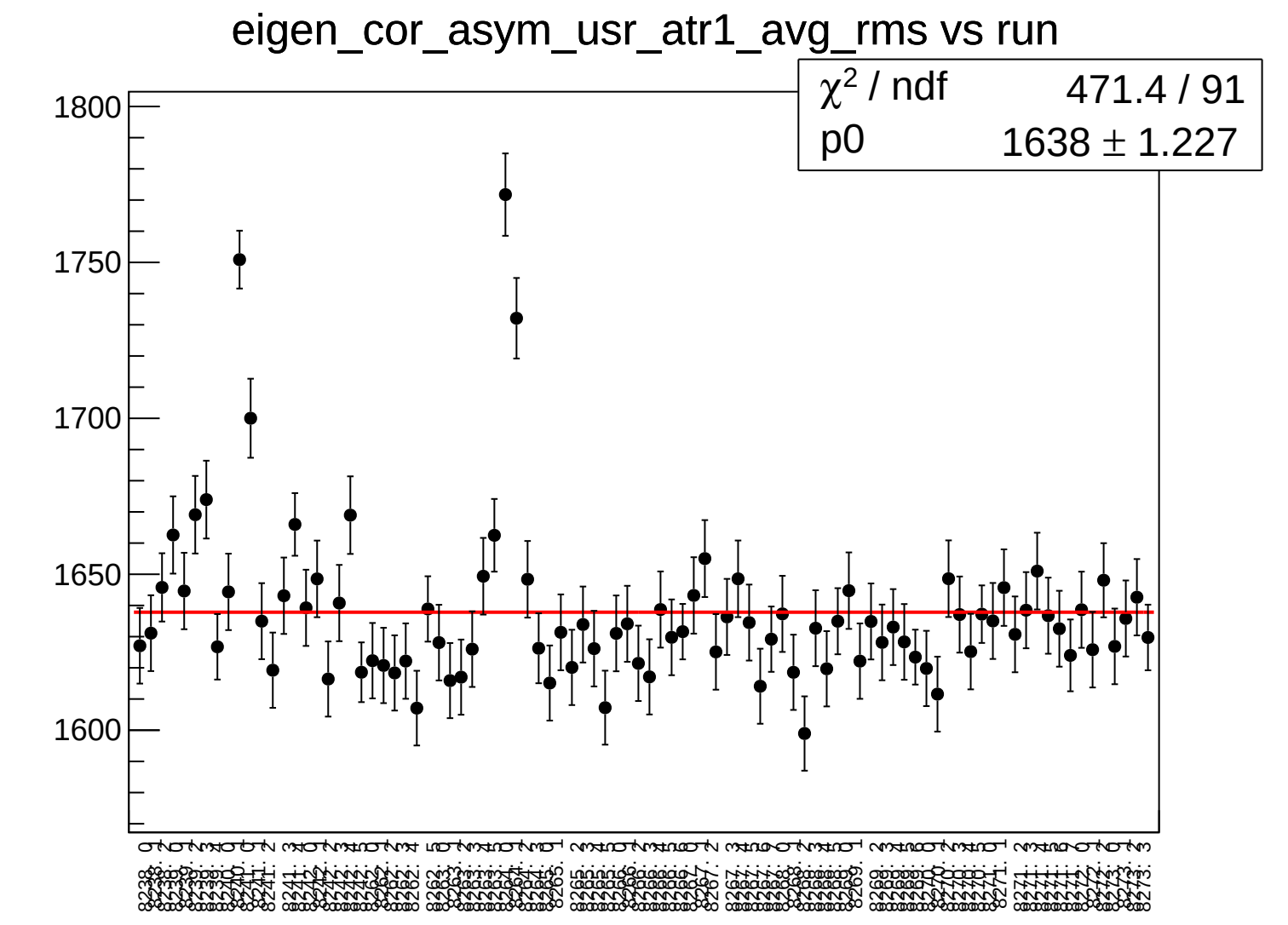

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 471.4 / 91
p0 1638 ± 1.227
1800
1750
1700
1650
1600

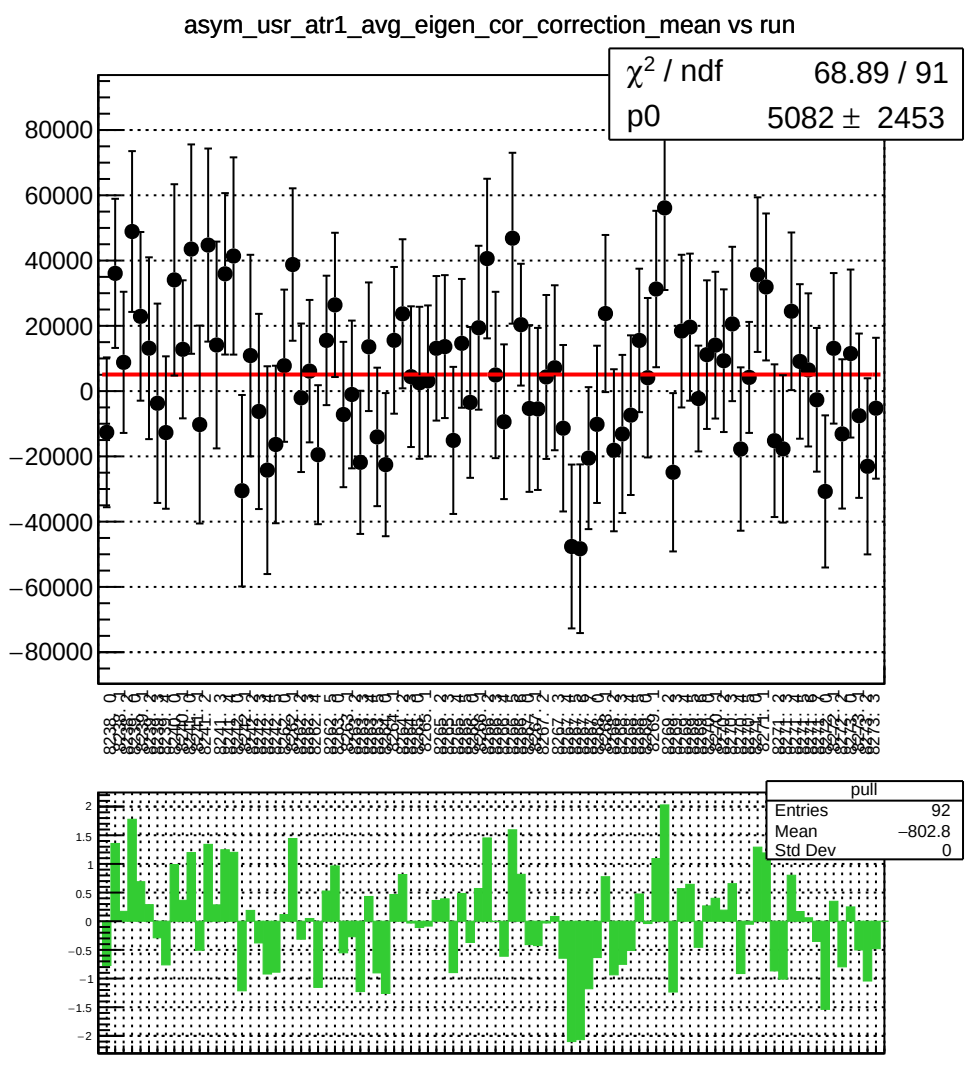

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 68.89 / 91
p0 5082 ± 2453
pull
Entries 92
Mean −802.8
Std Dev 0

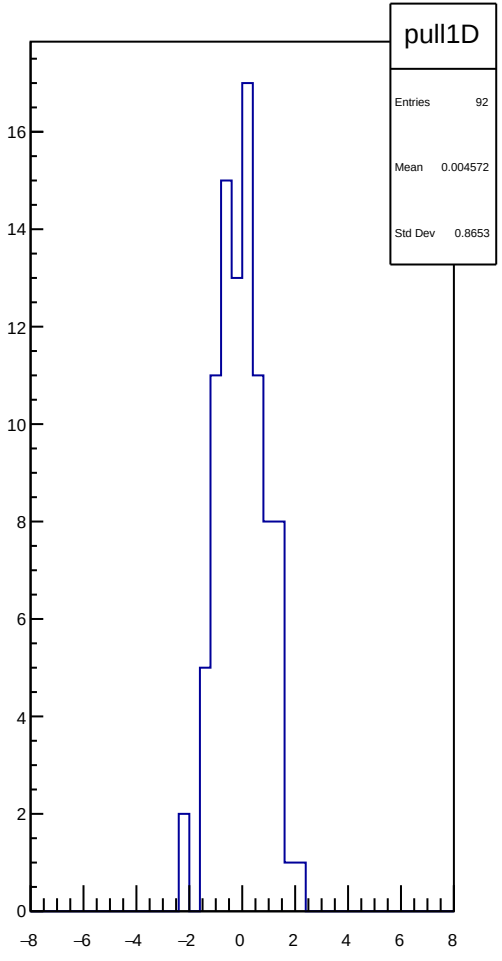

pull1D
Entries 92
Mean 0.004572
Std Dev 0.8653

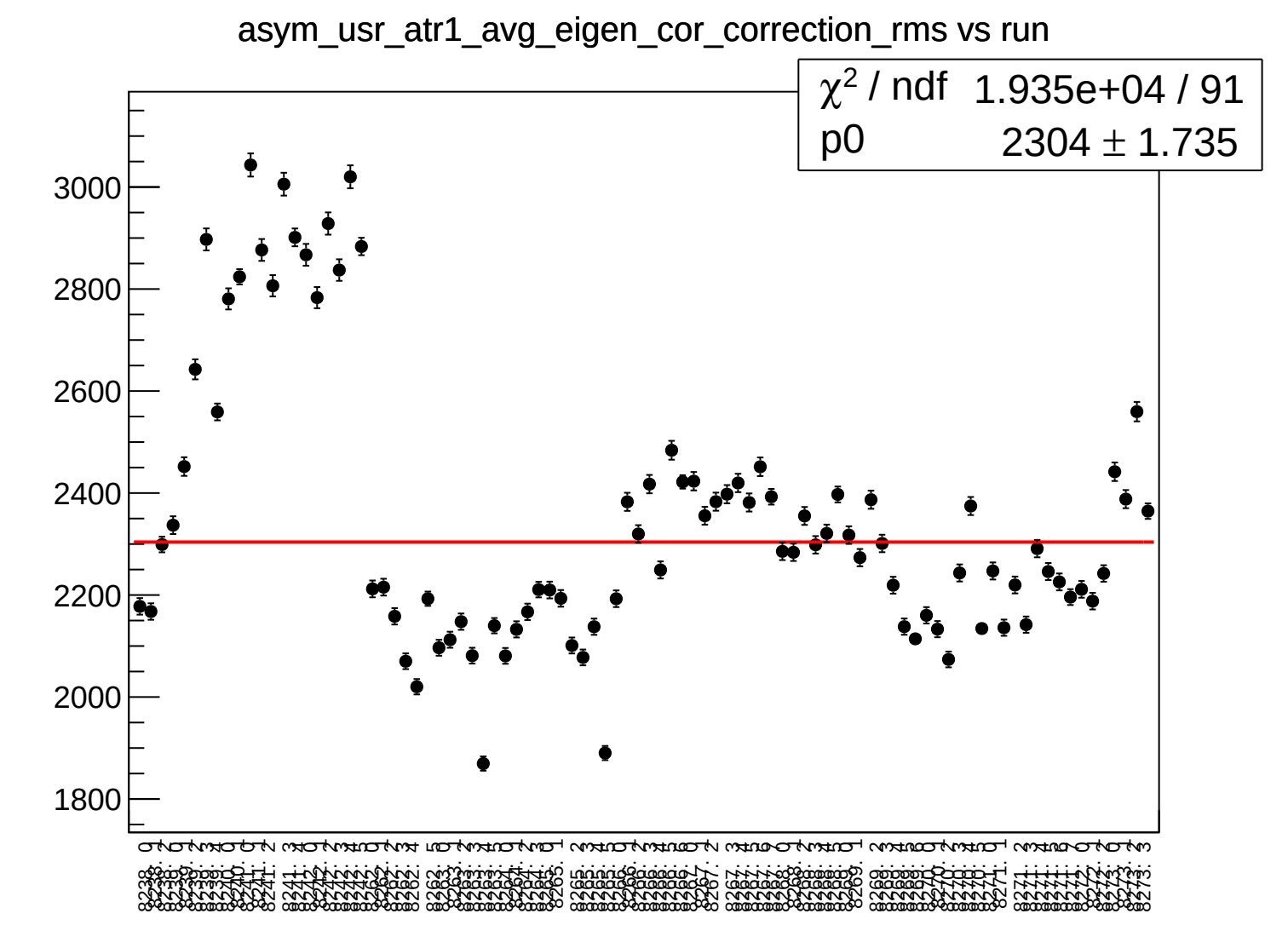

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 1.935e+04 / 91
p0 2304 ± 1.735
3000
2800
2600
2400
2200
2000
1800

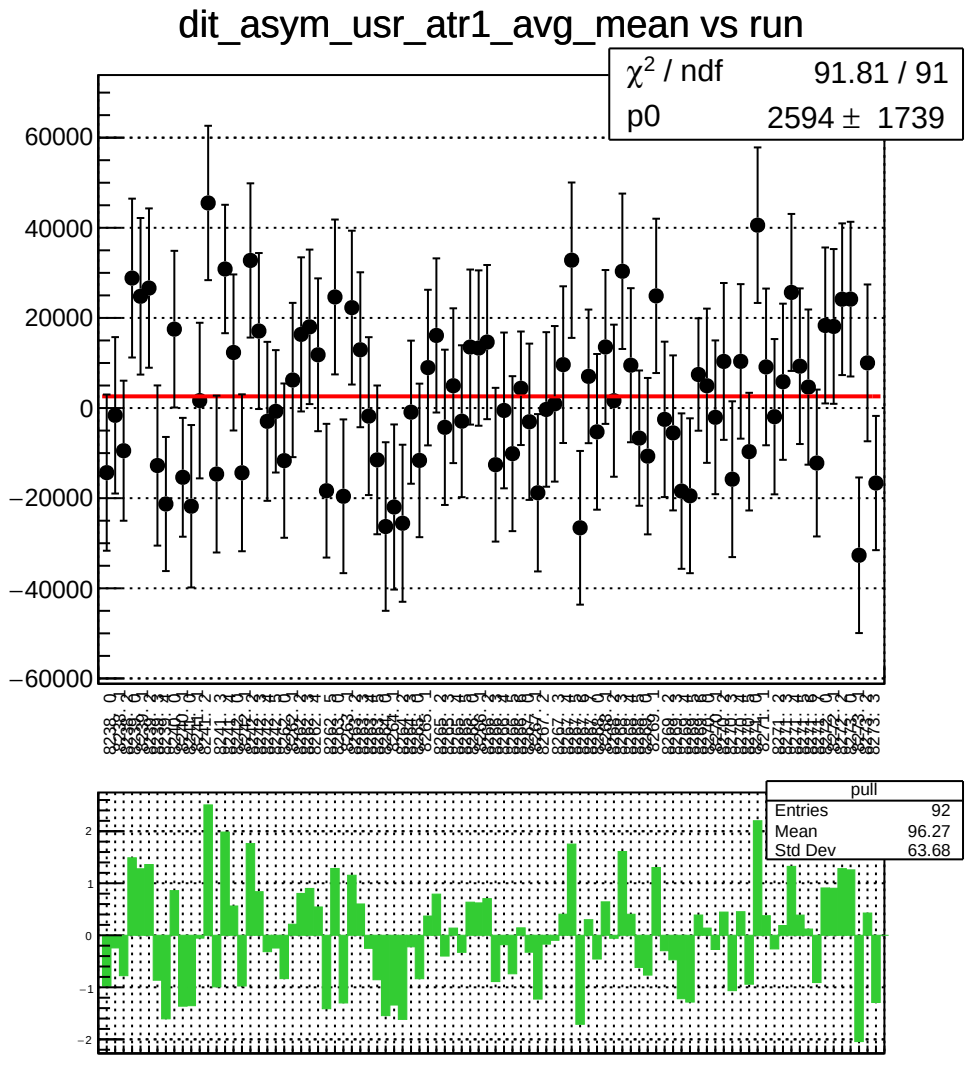

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 91.14 / 91
p0 2534 ± 1735
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 97.26
Std Dev 66.34
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.007349
Std Dev 0.9953
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

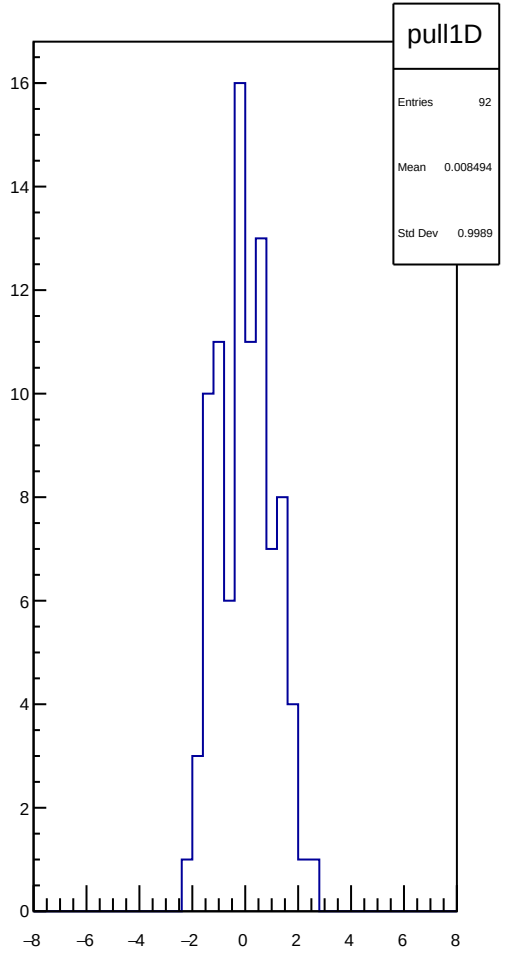

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 471.4 / 91
p0 1638 ± 1.227
1800
1750
1700
1650
1600

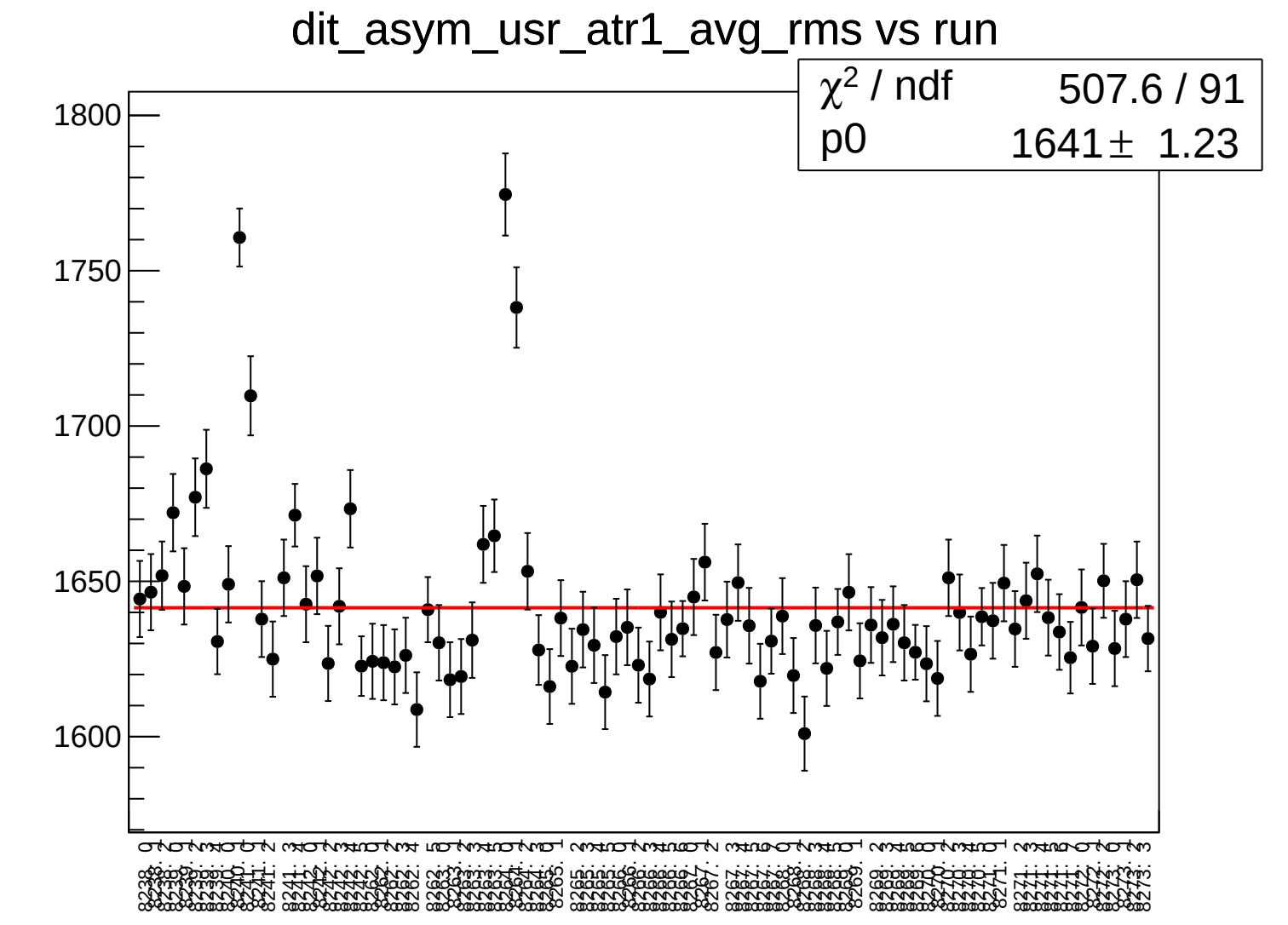

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 68.89 / 91
p0 5082 ± 2453
pull
Entries 92
Mean −802.8
Std Dev 0

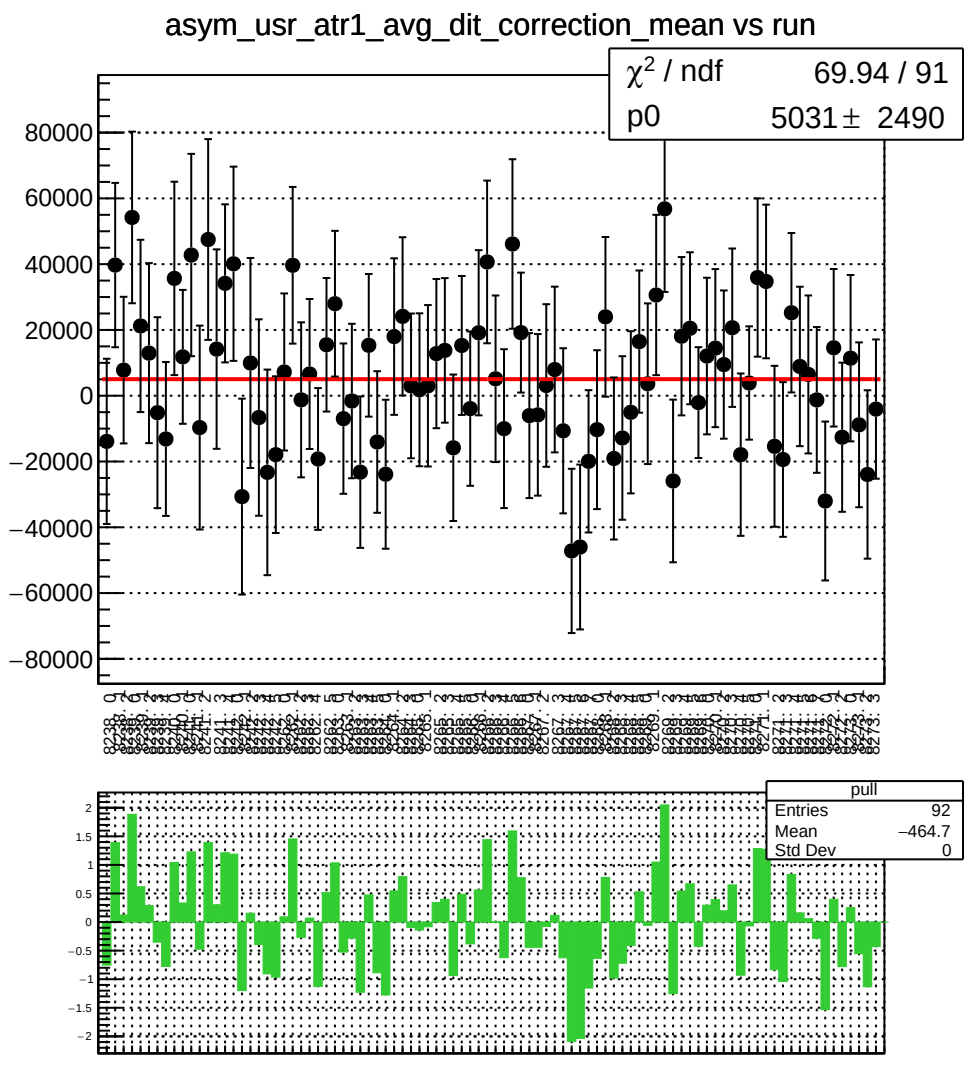

pull1D
Entries 92
Mean 0.004572
Std Dev 0.8653

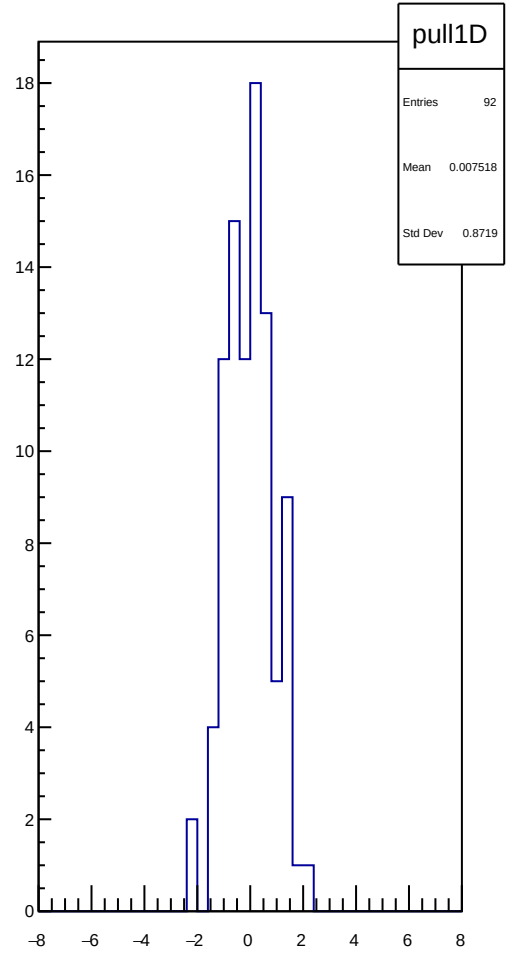

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.935e+04 / 91
p0 2304 ± 1.735
3000
2800
2600
2400
2200
2000
1800

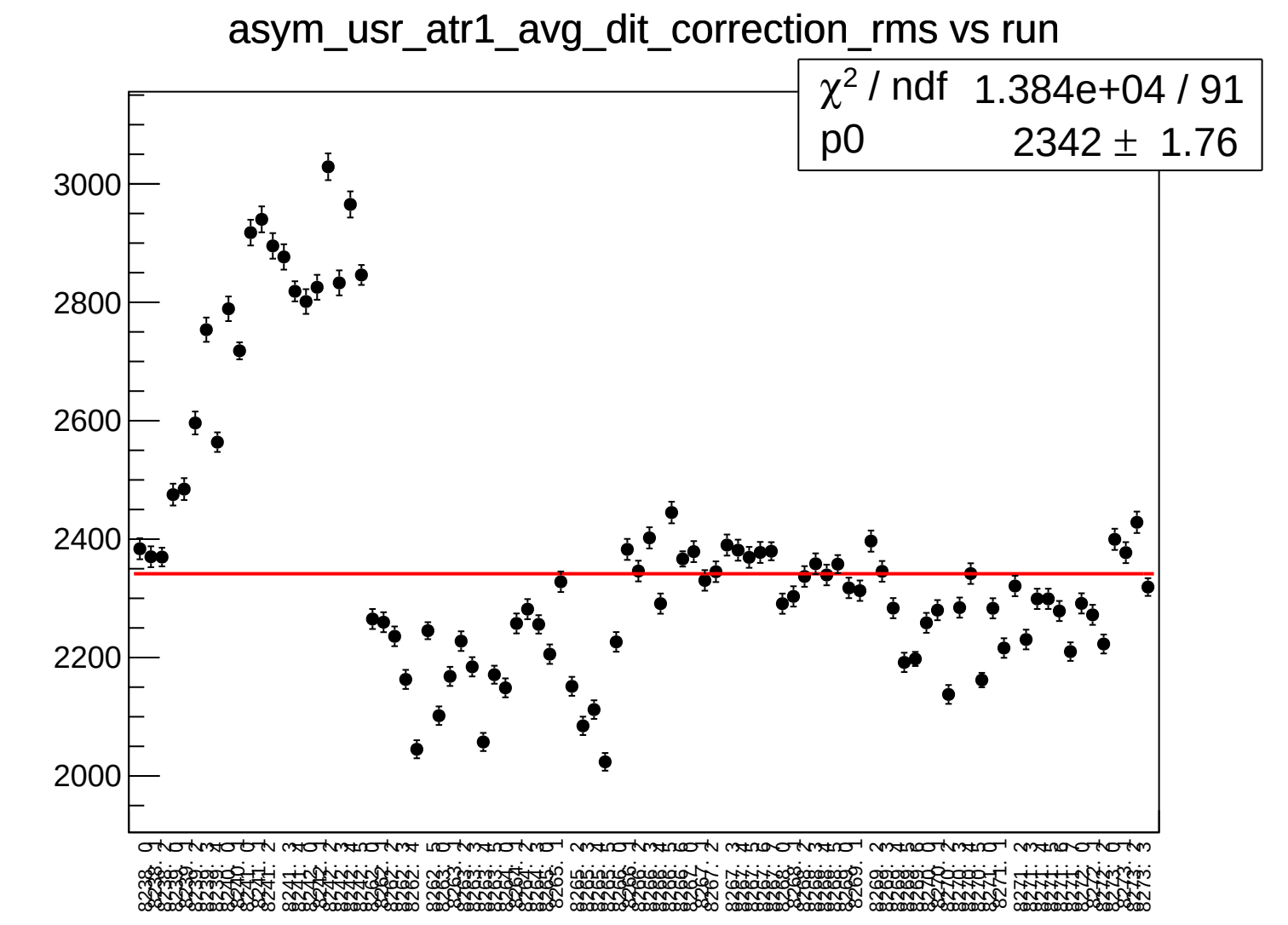

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 91.81 / 91
p0 2594 ± 1739
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 96.27
Std Dev 63.68
2
1
0
−1
−2

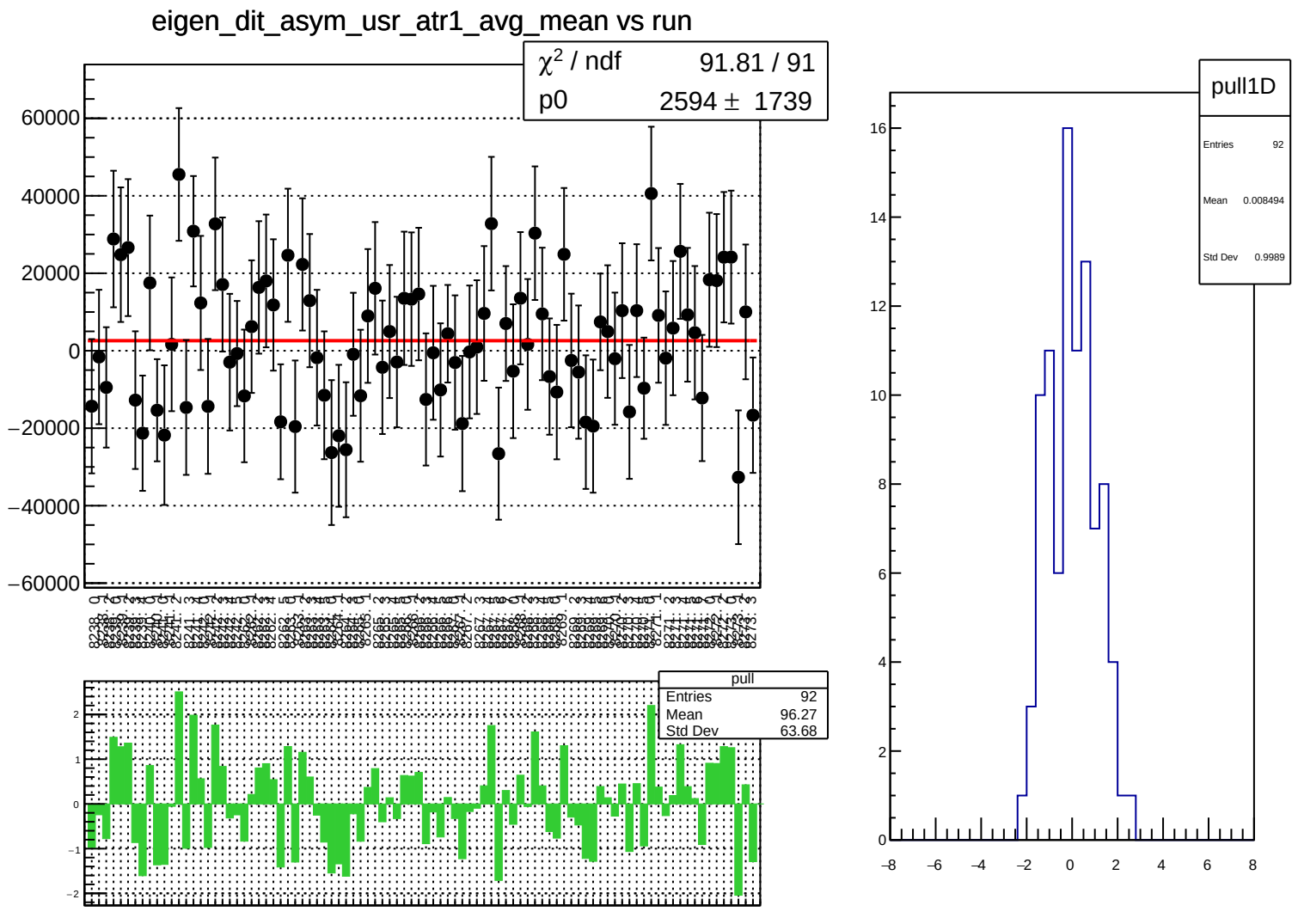

pull1D
Entries 92
Mean 0.008494
Std Dev 0.9989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

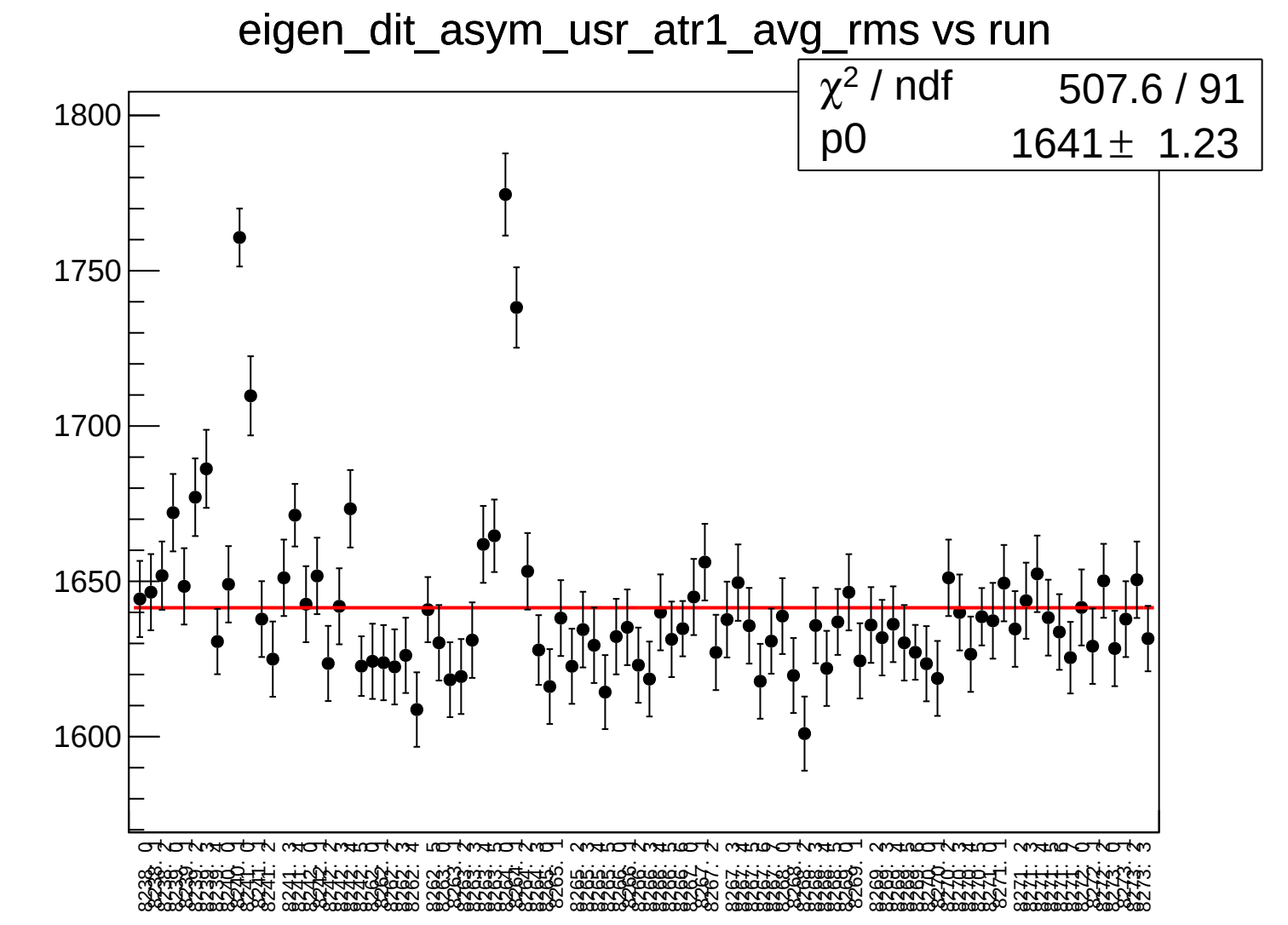

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 507.6 / 91
p0 1641 ± 1.23
1800
1750
1700
1650
1600

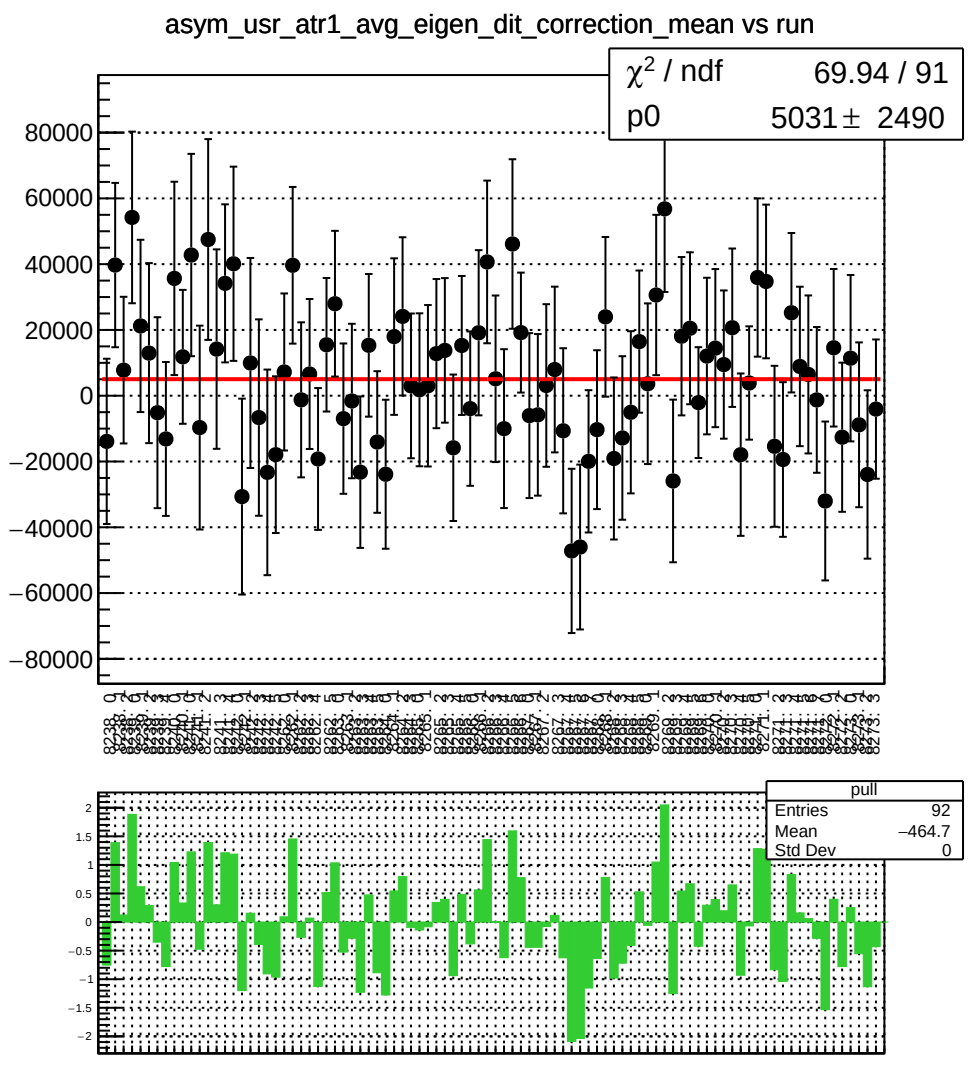

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 69.94 / 91
p0 5031 ± 2490
pull
Entries 92
Mean −464.7
Std Dev 0

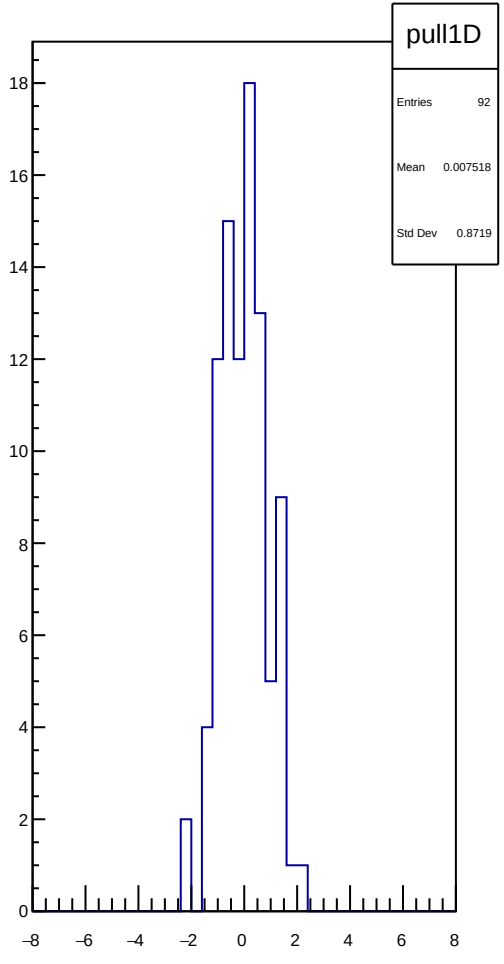

pull1D
Entries 92
Mean 0.007518
Std Dev 0.8719

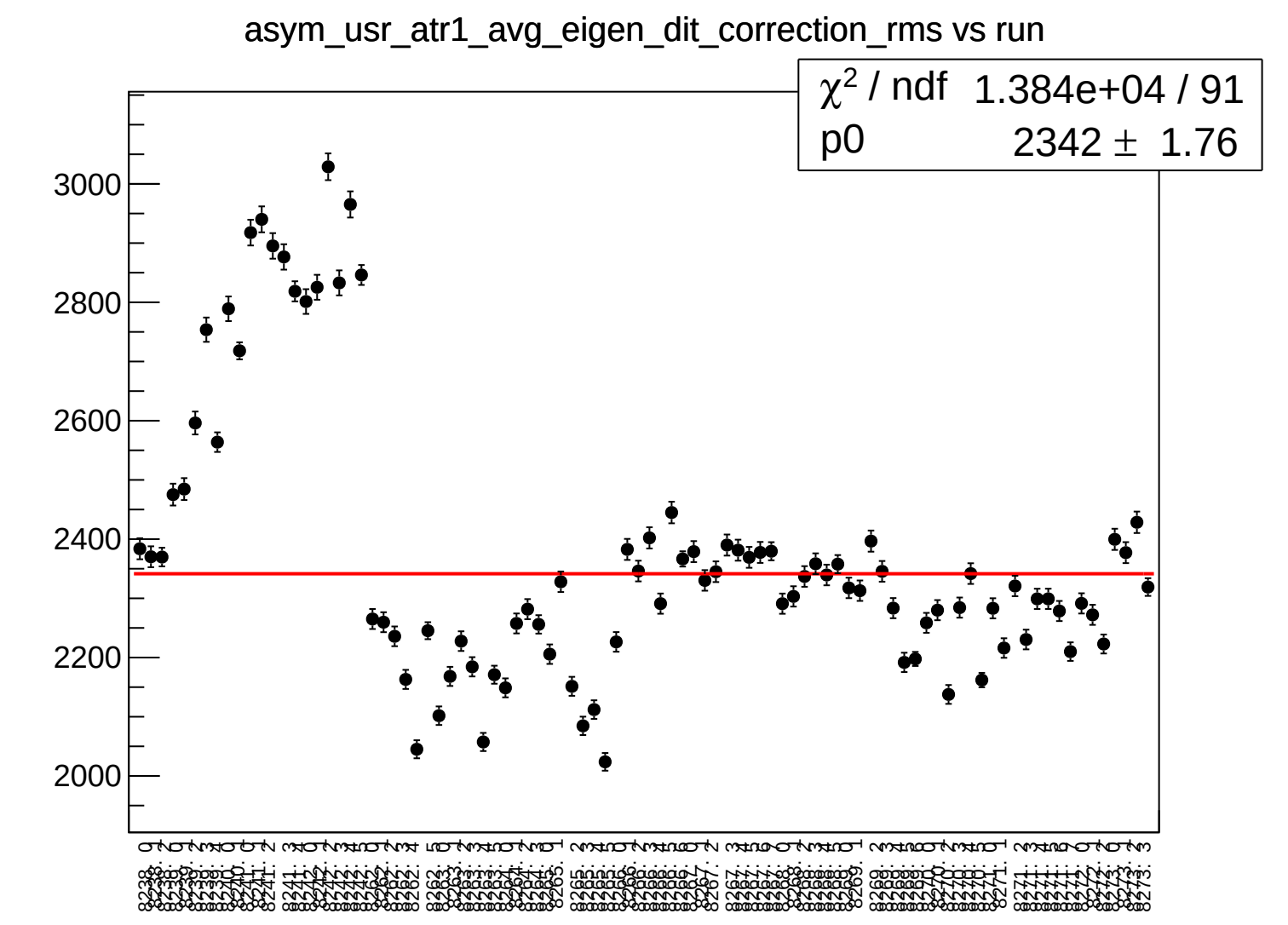

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 1.384e+04 / 91
p0 2342 ± 1.76
3000
2800
2600
2400
2200
2000

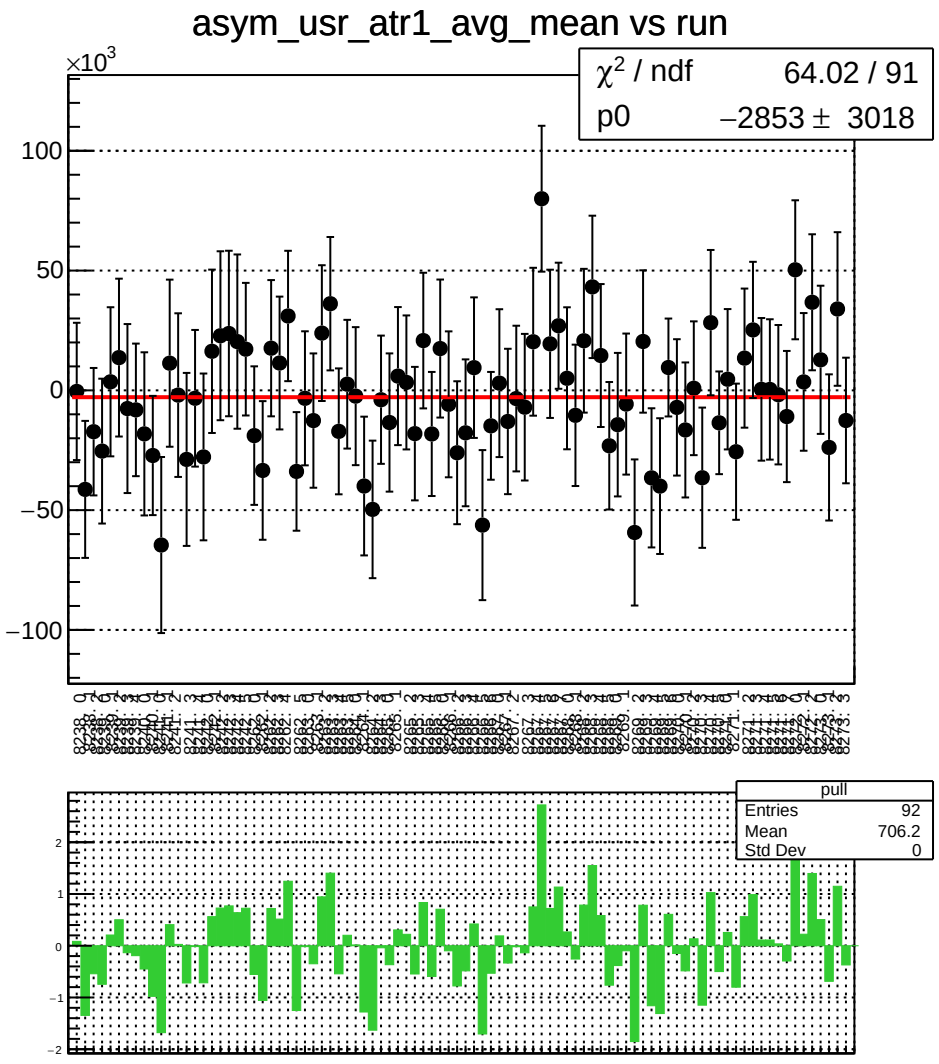

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 91.81 / 91
p0 2594 ± 1739
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 96.27
Std Dev 63.68
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.008494
Std Dev 0.9989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

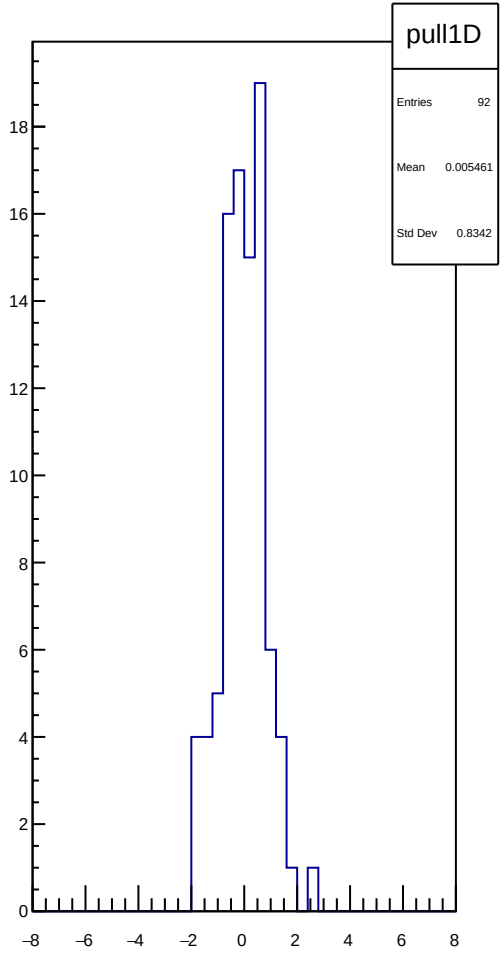

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 507.6 / 91
p0 1641 ± 1.23
1800
1750
1700
1650
1600

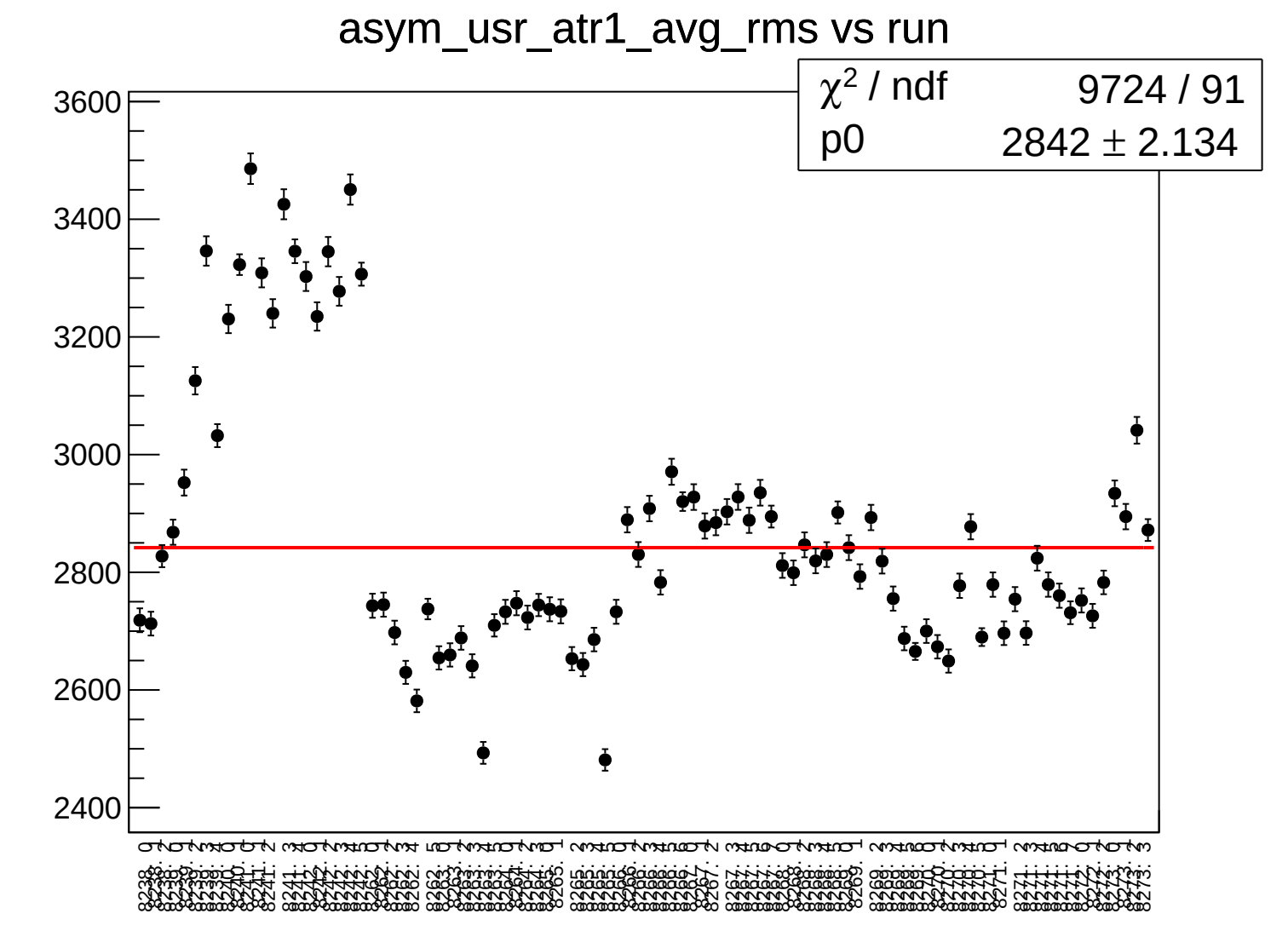

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.94 / 91
p0 5031 ± 2490
pull
Entries 92
Mean −464.7
Std Dev 0

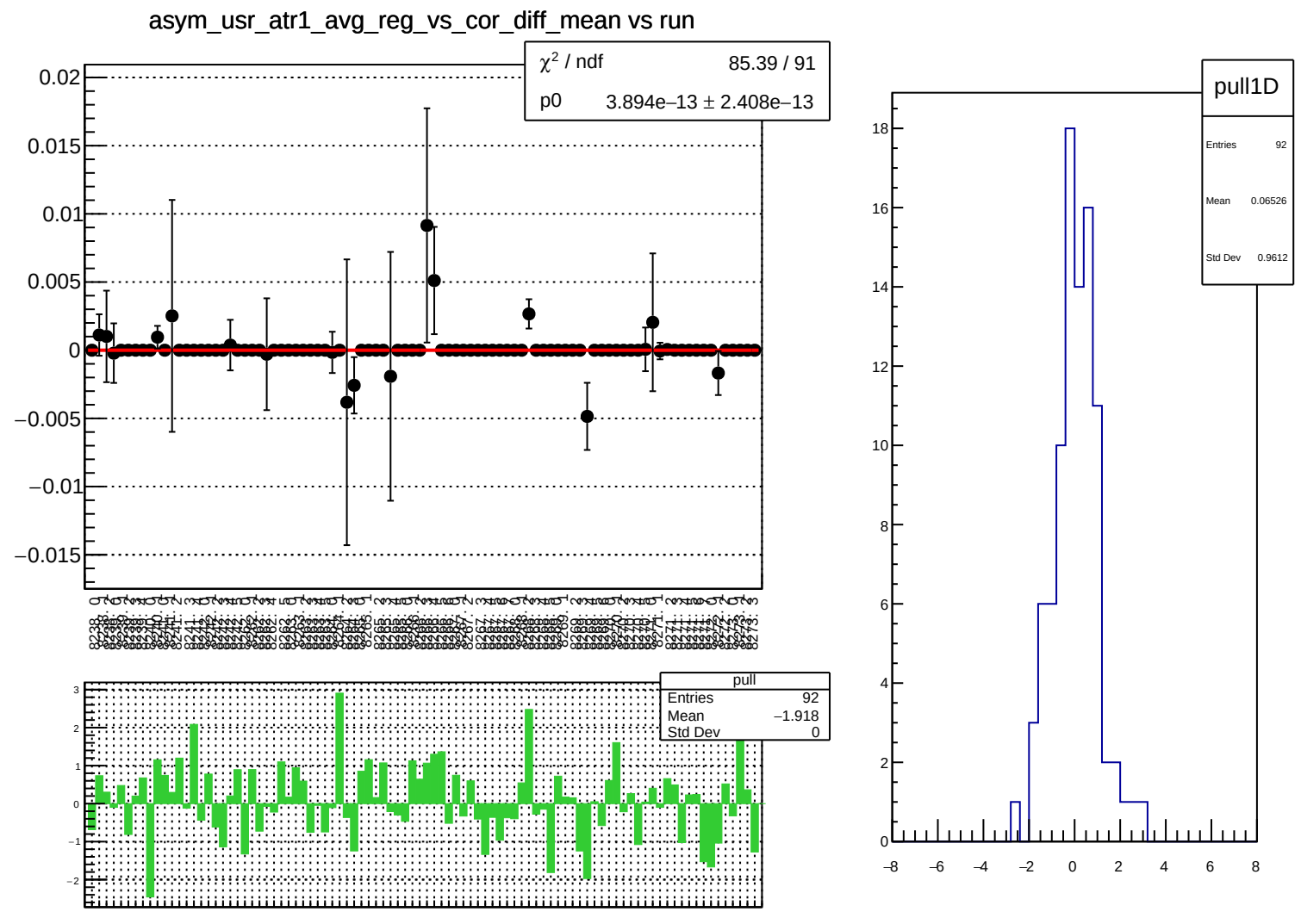

pull1D
Entries 92
Mean 0.007518
Std Dev 0.8719

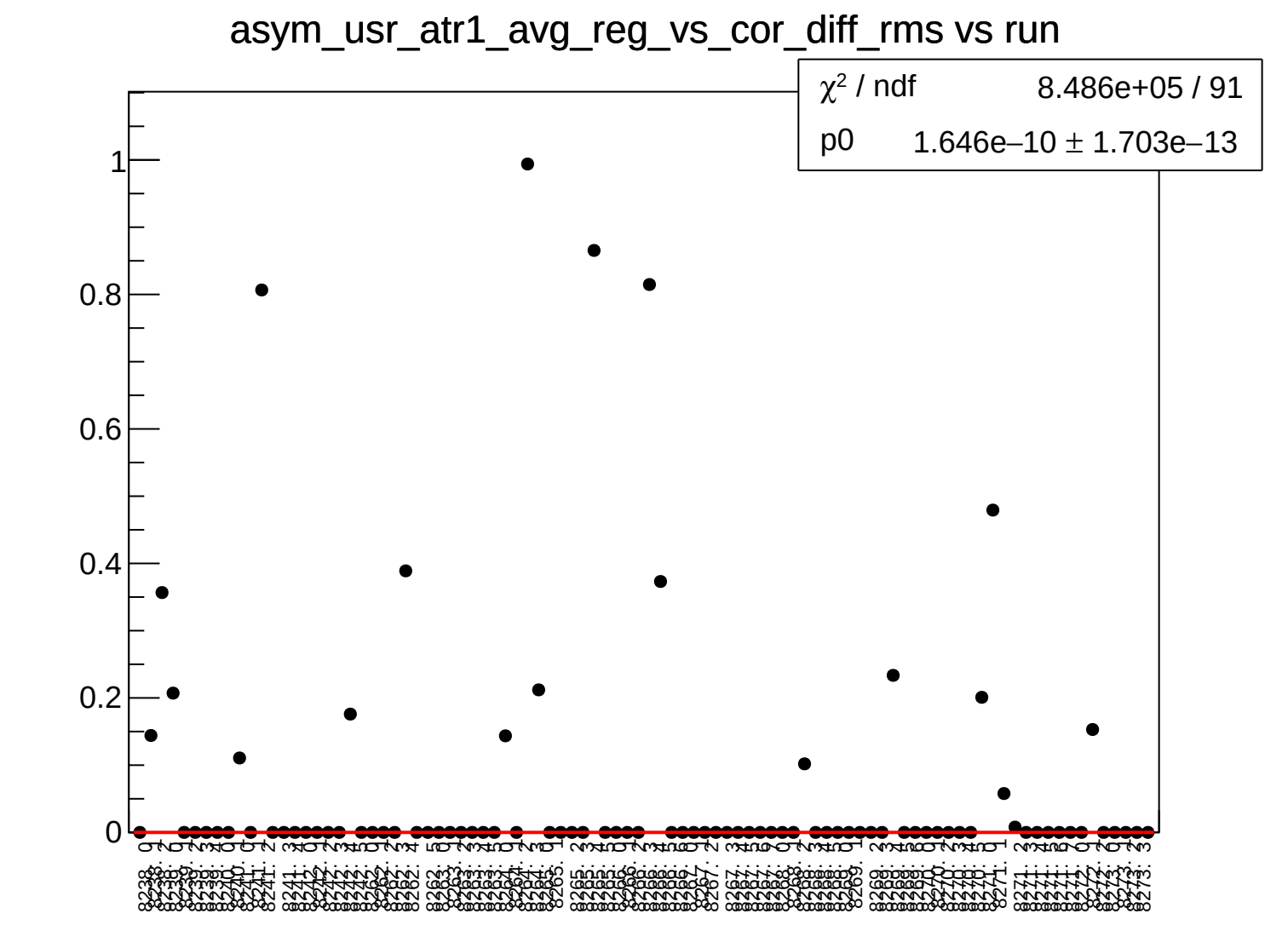

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.384e+04 / 91
p0 2342 ± 1.76
3000
2800
2600
2400
2200
2000

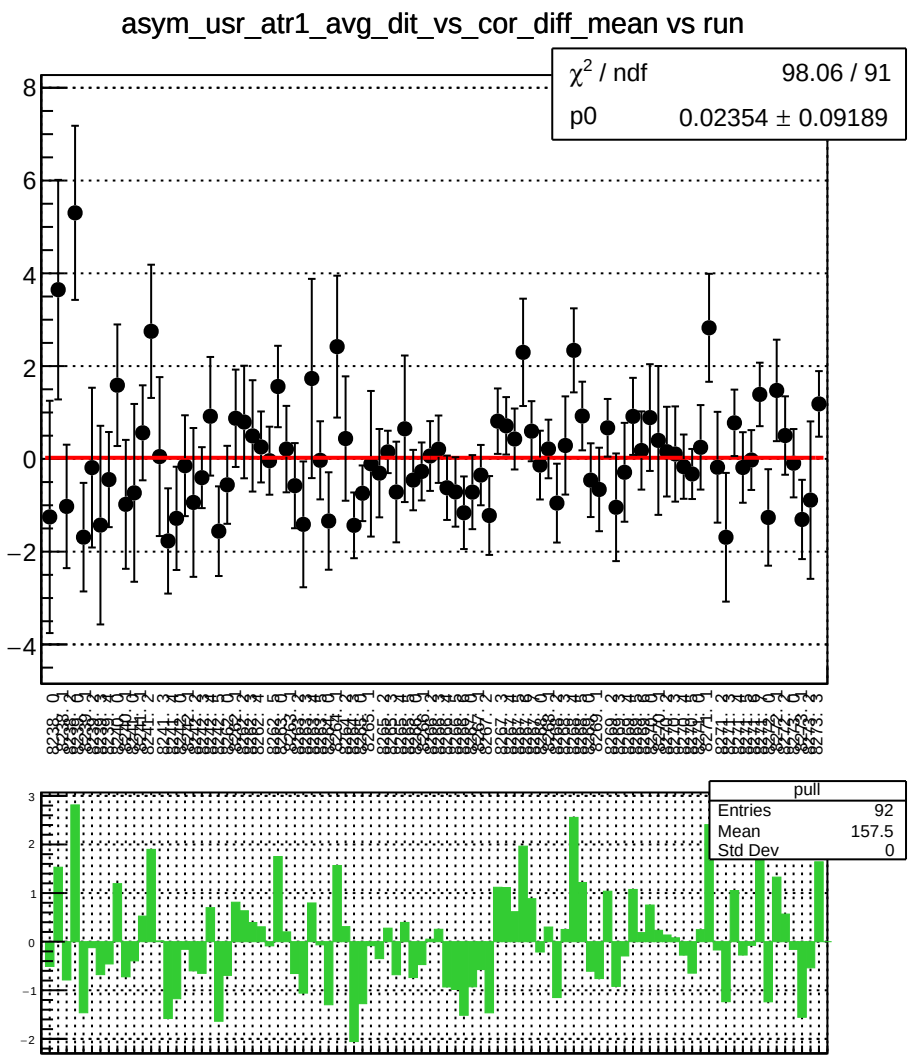

asym_usr_atr1_avg_mean vs run
×10^3
χ² / ndf 64.02 / 91
p0 −2853 ± 3018
100
50
0
−50
−100
pull
Entries 92
Mean 706.2
Std Dev 0
2
1
0
−1
−2

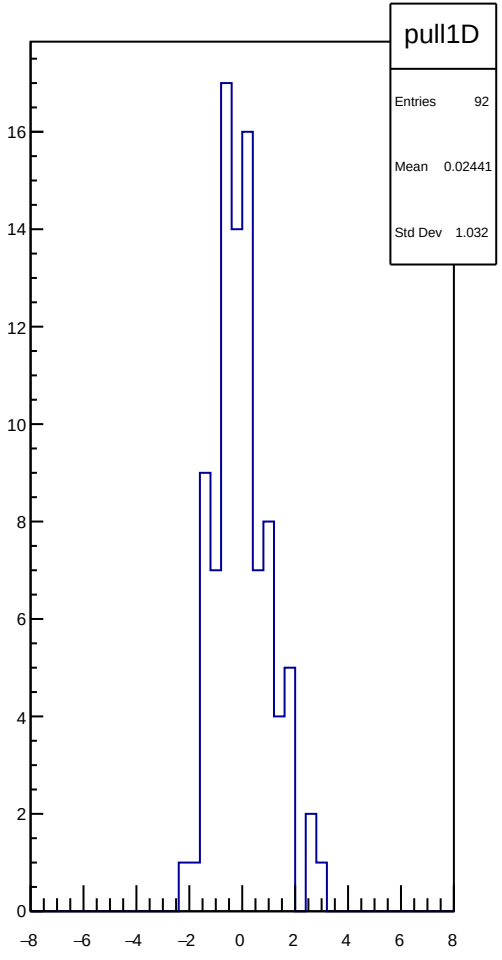

pull1D
Entries 92
Mean 0.005461
Std Dev 0.8342
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

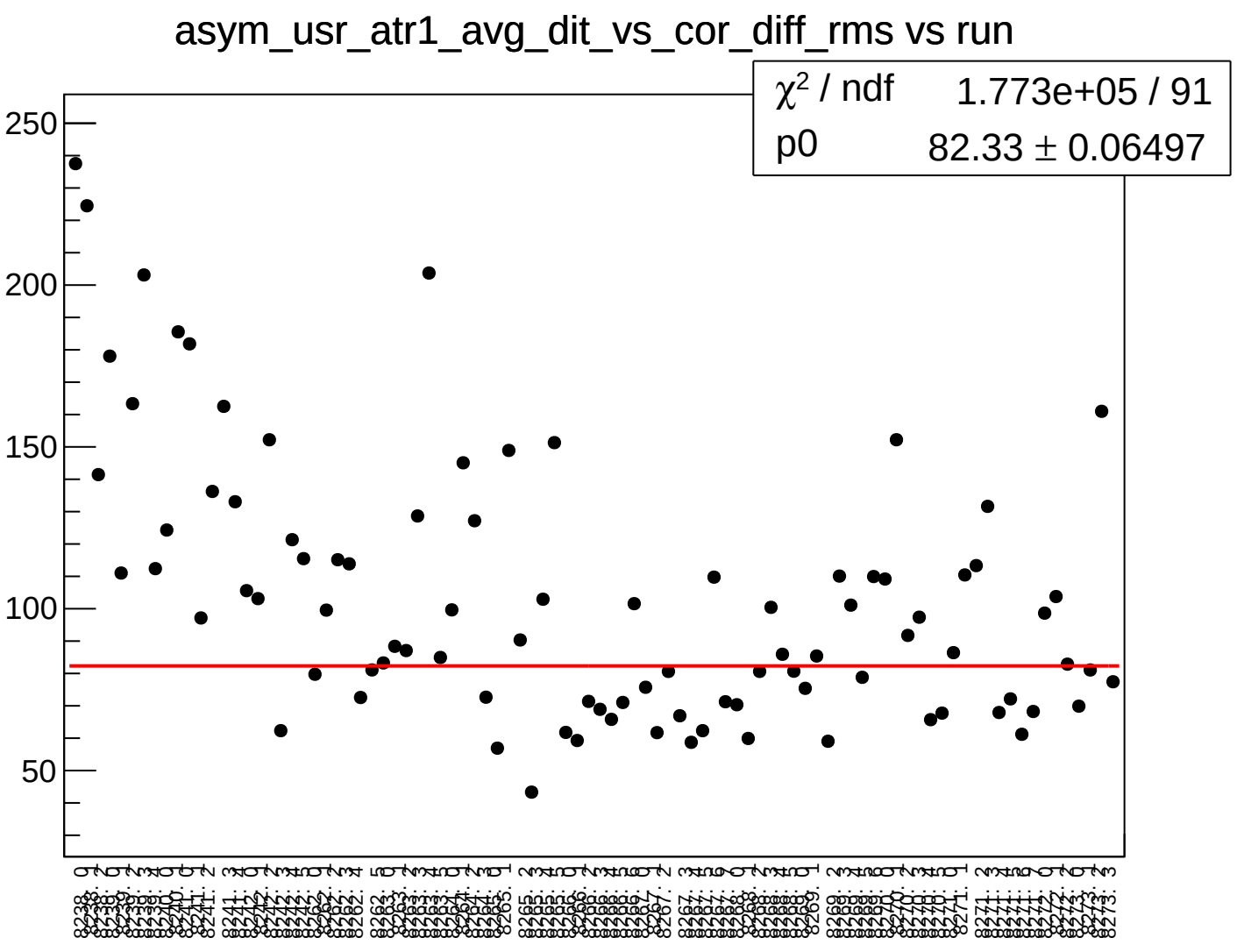

asym_usr_atr1_avg_rms vs run
χ² / ndf 9724 / 91
p0 2842 ± 2.134
3600
3400
3200
3000
2800
2600
2400

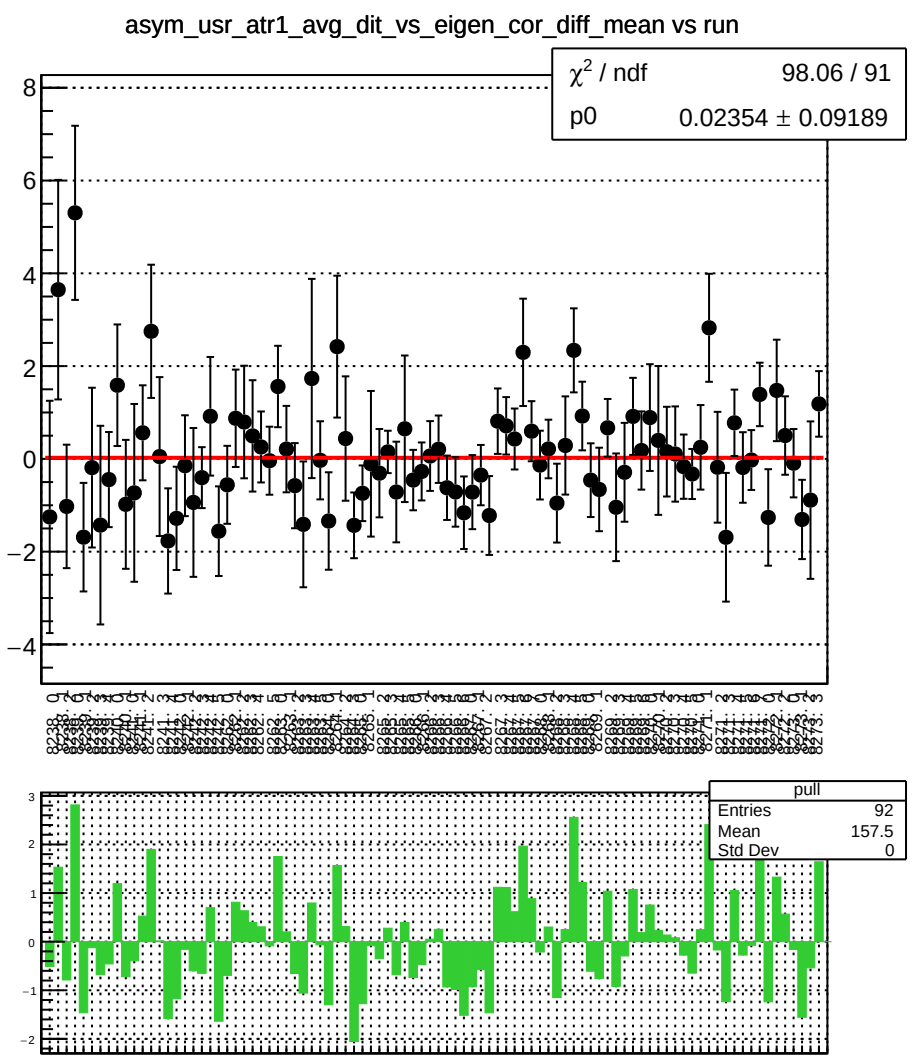

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.39 / 91
p0 3.894e−13 ± 2.408e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean −1.918
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.06526
Std Dev 0.9612
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

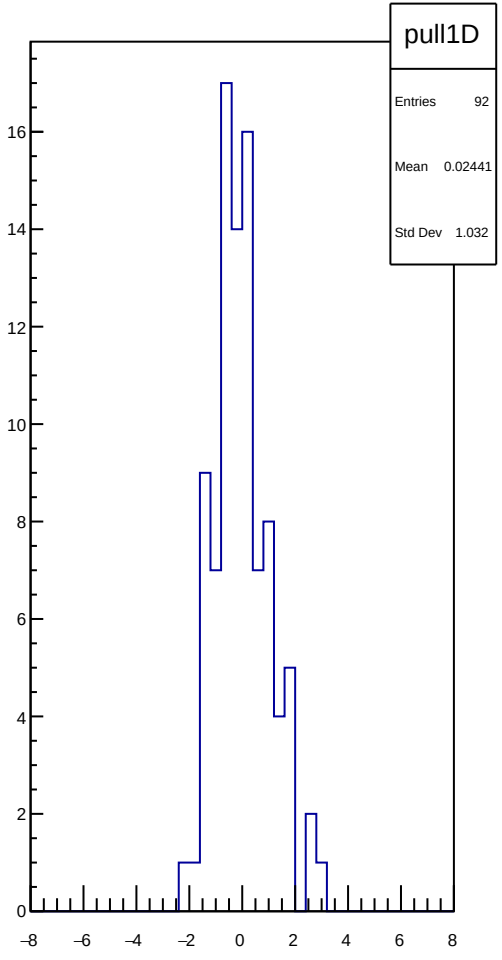

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.486e+05 / 91
p0 1.646e−10 ± 1.703e−13
1
0.8
0.6
0.4
0.2
0

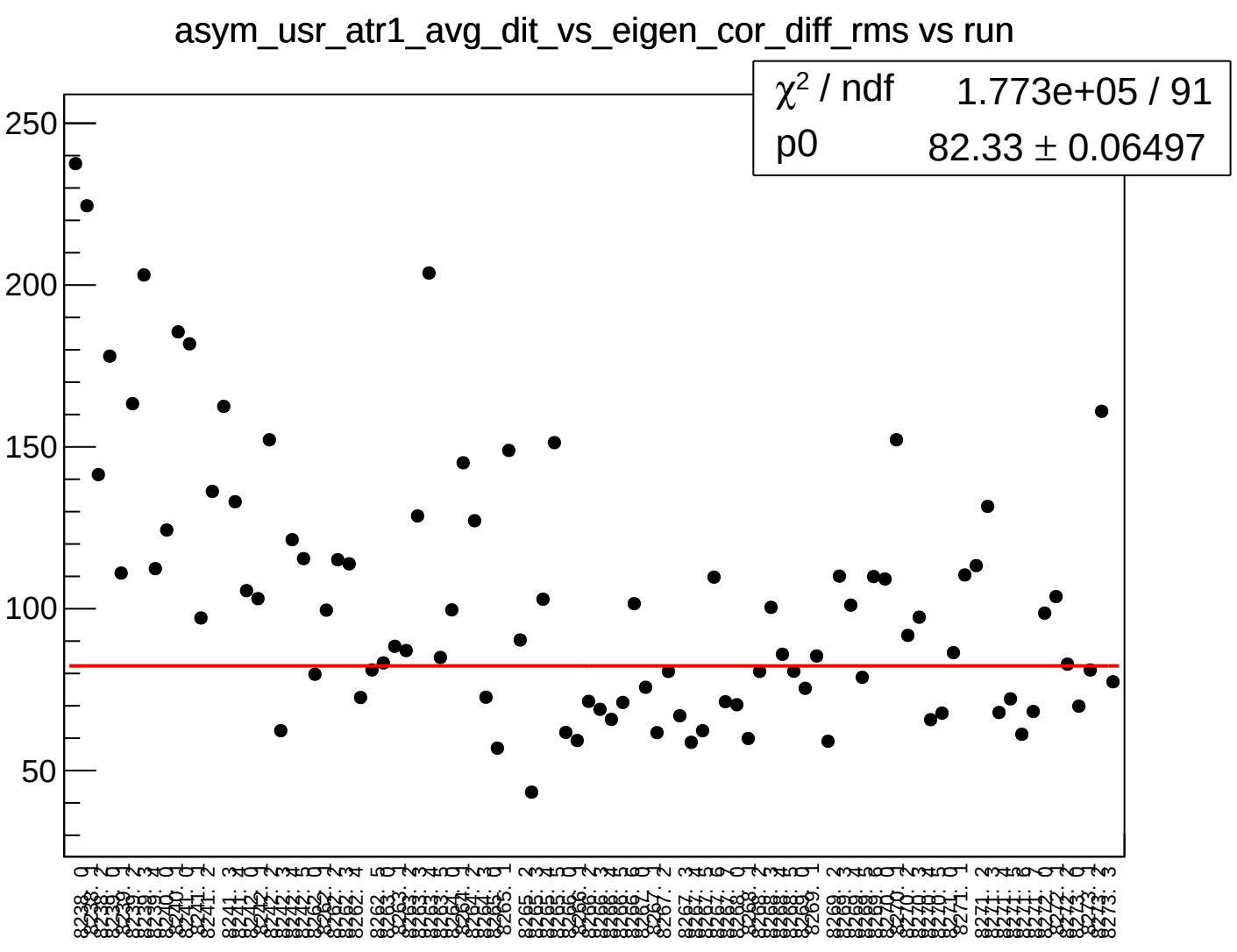

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.06 / 91
p0 0.02354 ± 0.09189
pull
Entries 92
Mean 157.5
Std Dev 0

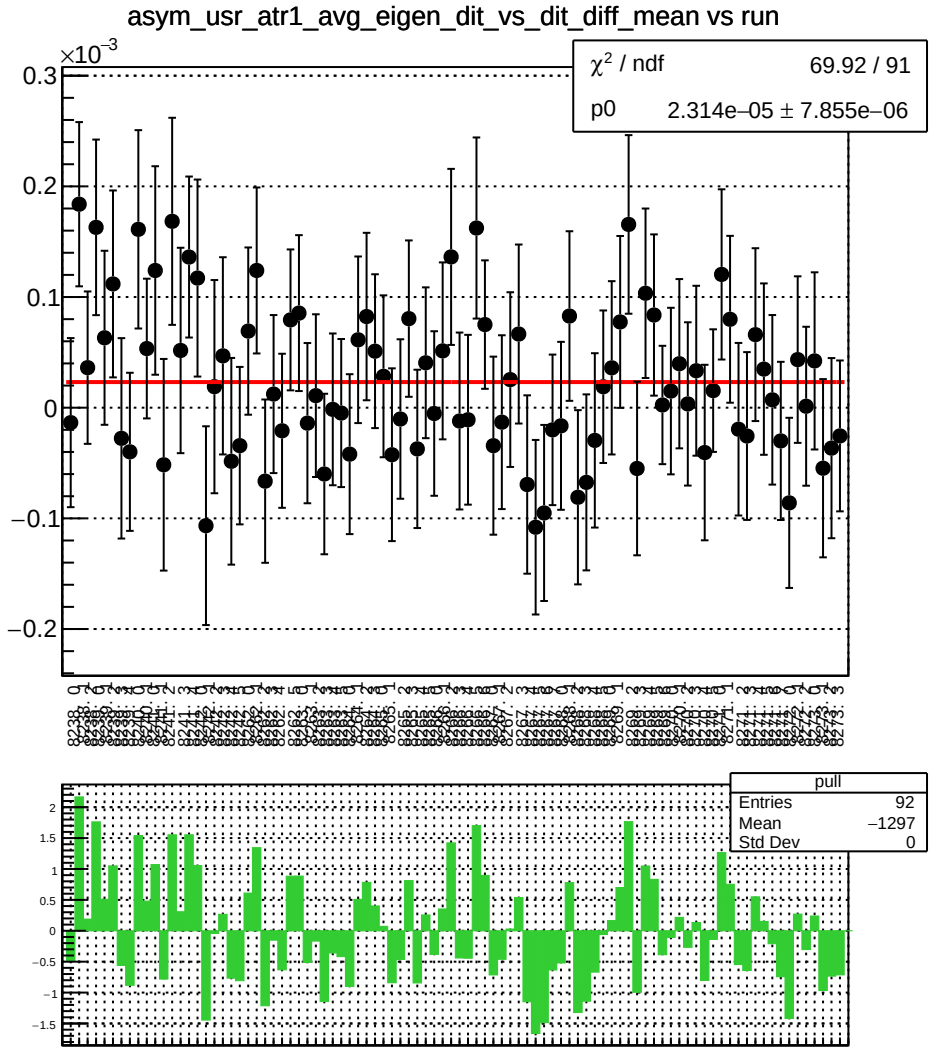

pull1D
Entries 92
Mean 0.02441
Std Dev 1.032

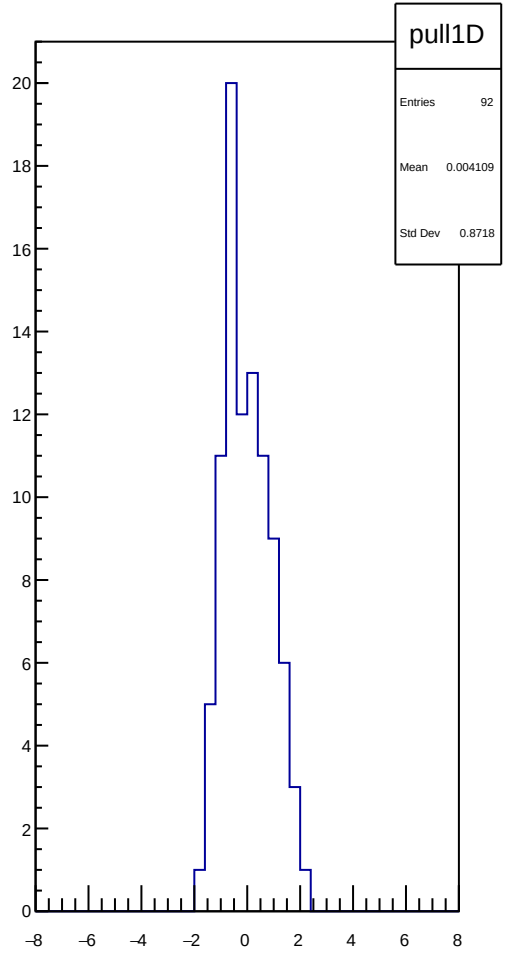

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.773e+05 / 91
p0 82.33 ± 0.06497
250
200
150
100
50

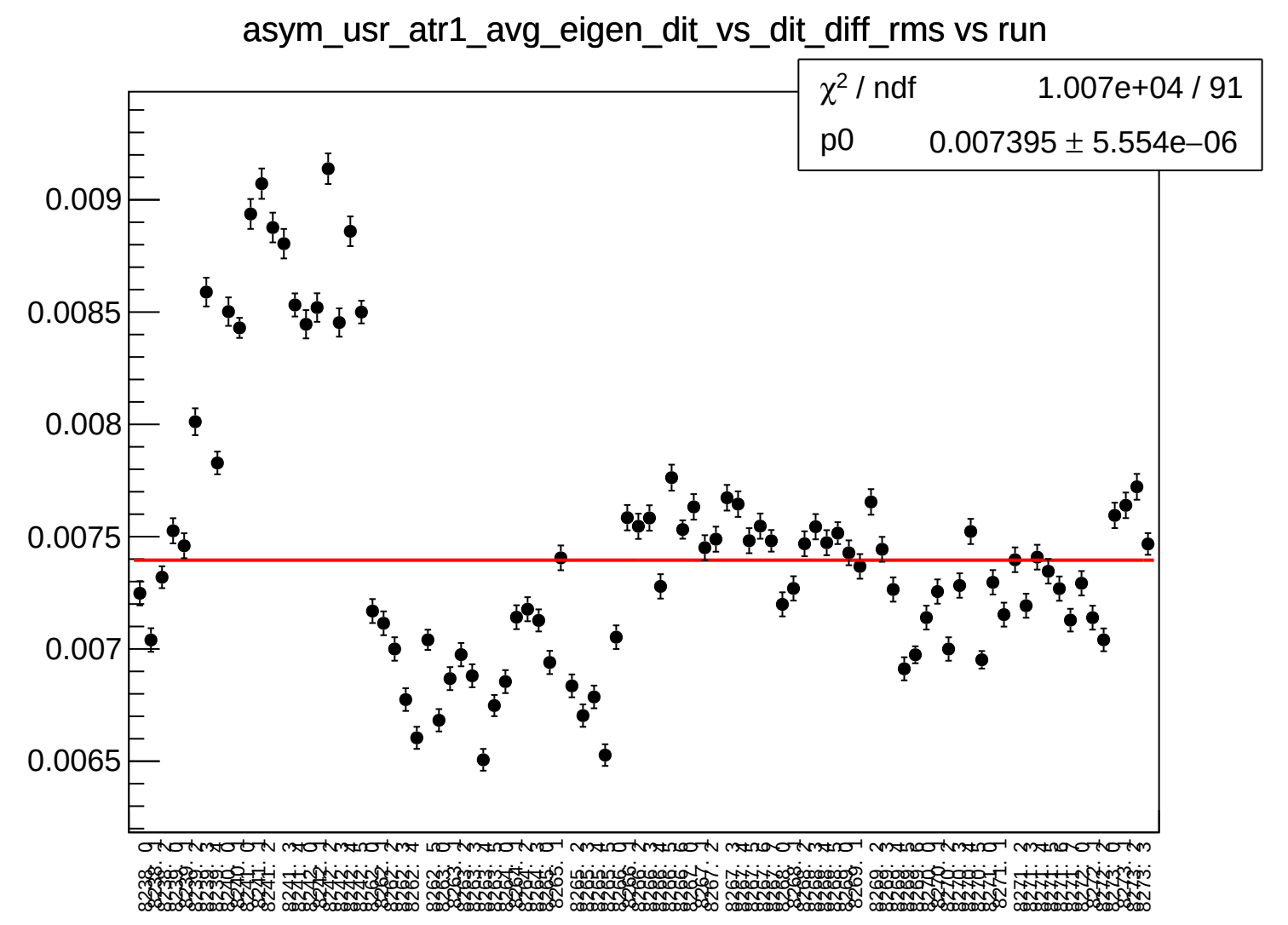

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.06 / 91
p0 0.02354 ± 0.09189
pull
Entries 92
Mean 157.5
Std Dev 0

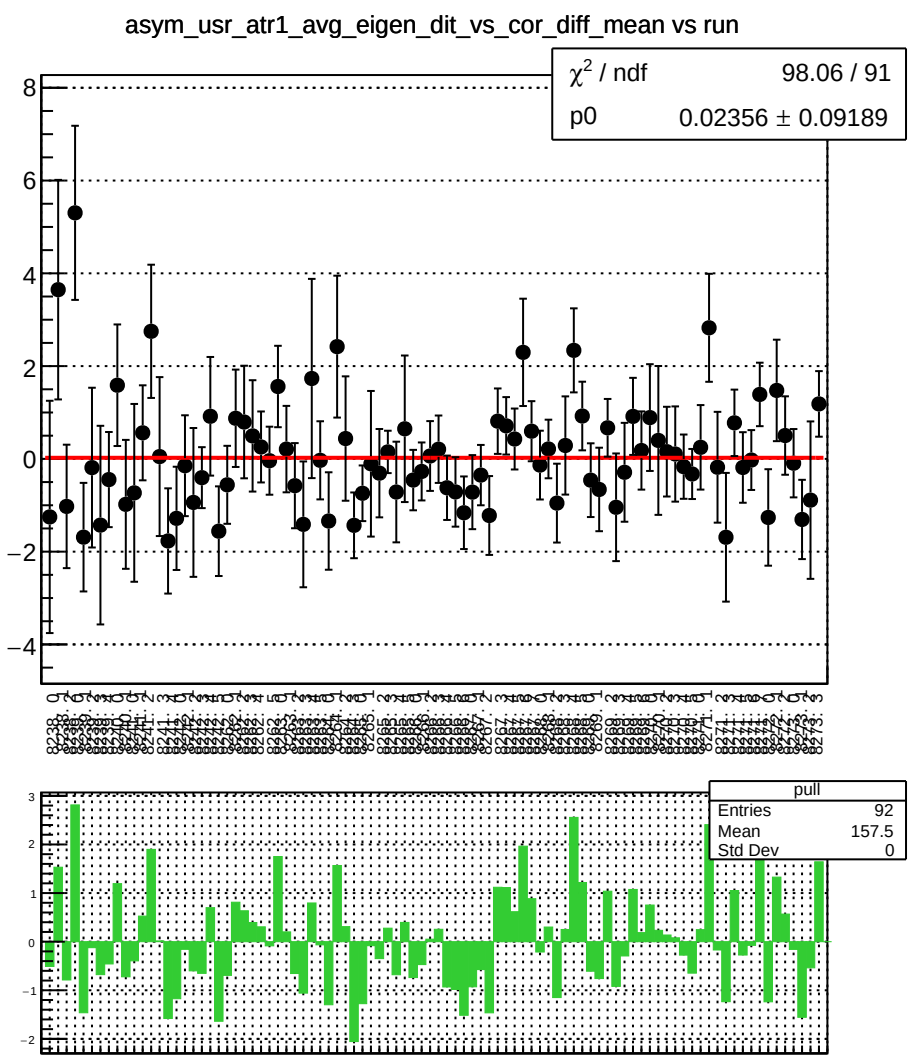

pull1D
Entries 92
Mean 0.02441
Std Dev 1.032

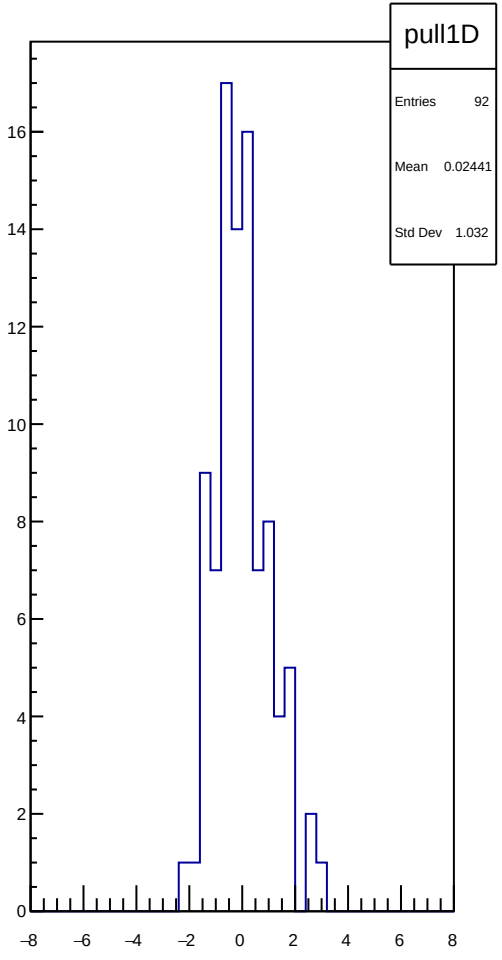

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.773e+05 / 91
p0 82.33 ± 0.06497
250
200
150
100
50

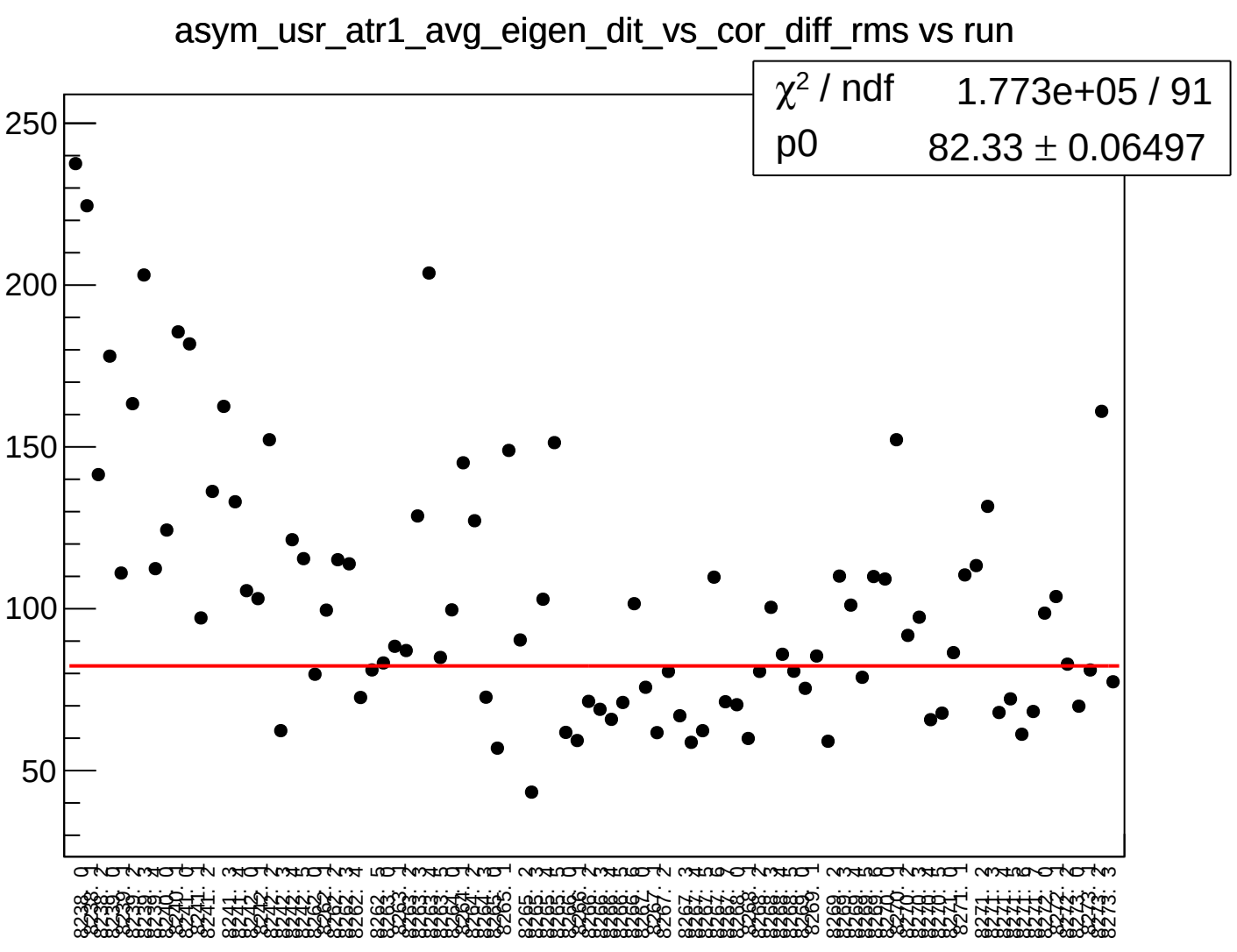

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 69.92 / 91
p0 2.314e−05 ± 7.855e−06
pull
Entries 92
Mean −1297
Std Dev 0

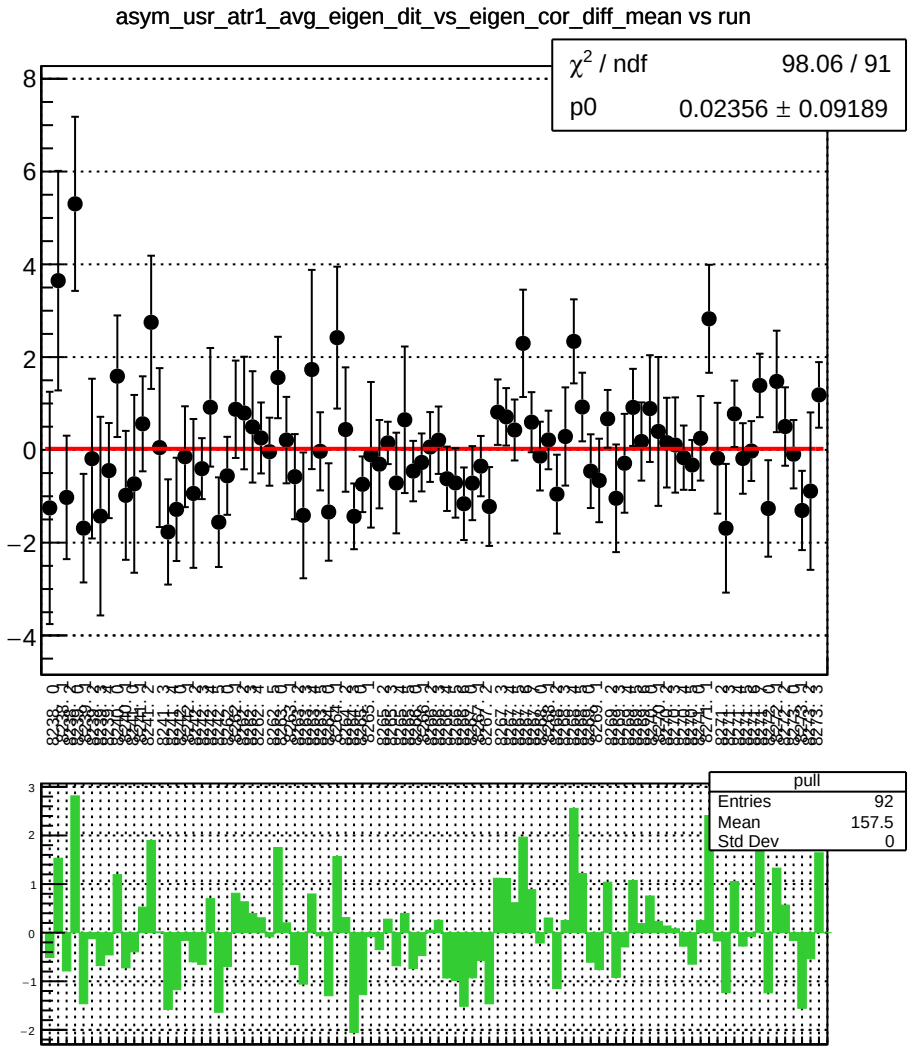

pull1D
Entries 92
Mean 0.004109
Std Dev 0.8718

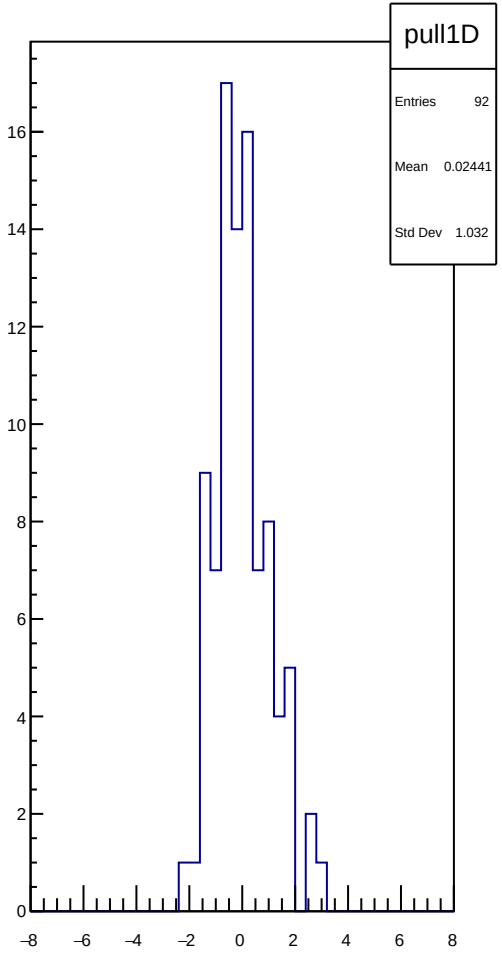

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.007e+04 / 91
p0 0.007395 ± 5.554e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065

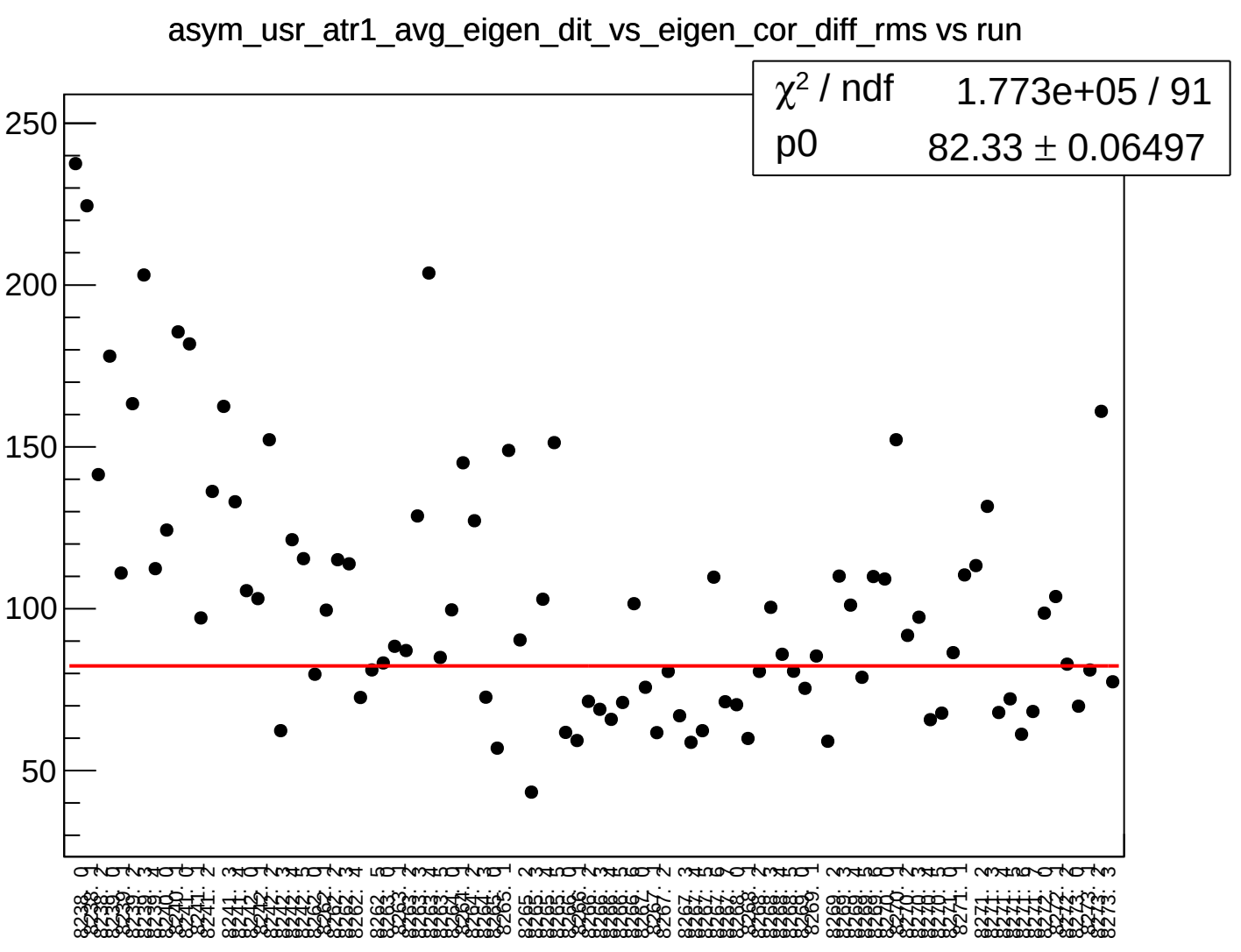

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.06 / 91
p0 0.02356 ± 0.09189
pull
Entries 92
Mean 157.5
Std Dev 0

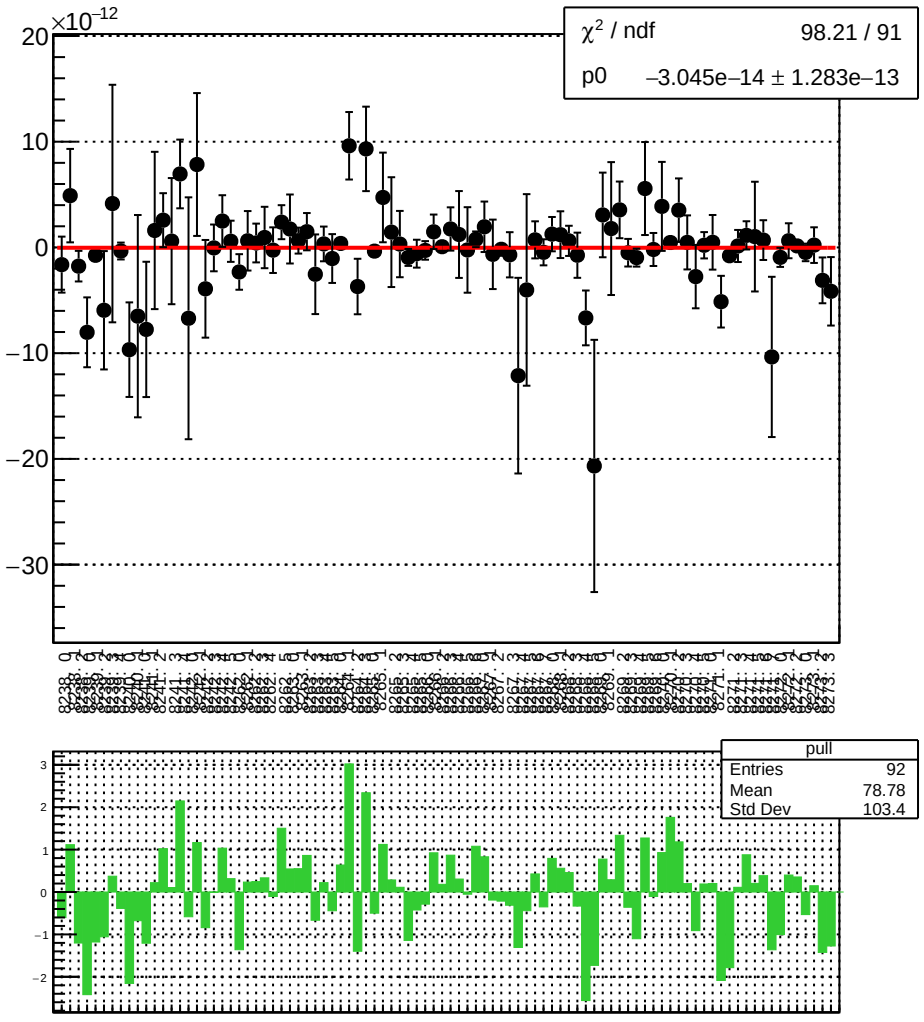

pull1D
Entries 92
Mean 0.02441
Std Dev 1.032

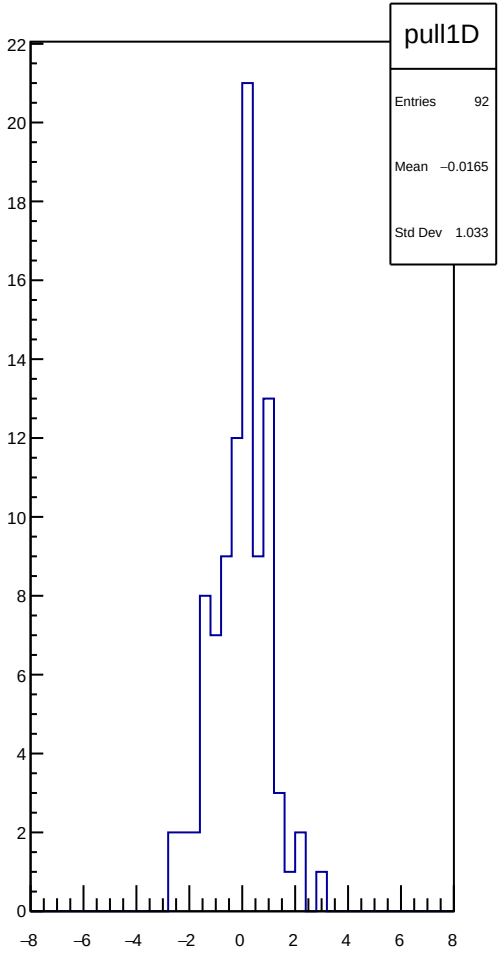

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.773e+05 / 91
p0 82.33 ± 0.06497
250
200
150
100
50

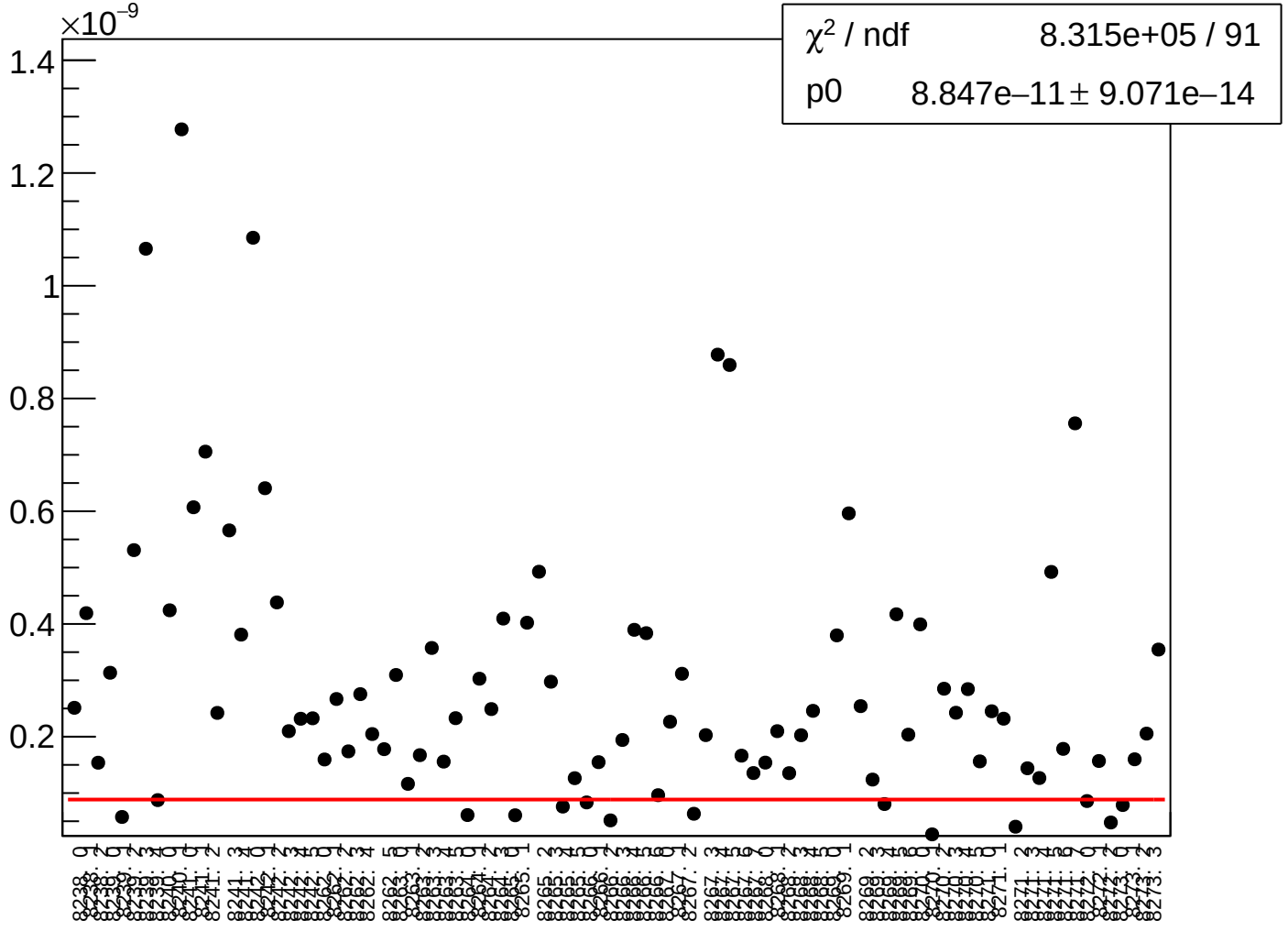

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.06 / 91
p0 0.02356 ± 0.09189
pull
Entries 92
Mean 157.5
Std Dev 0

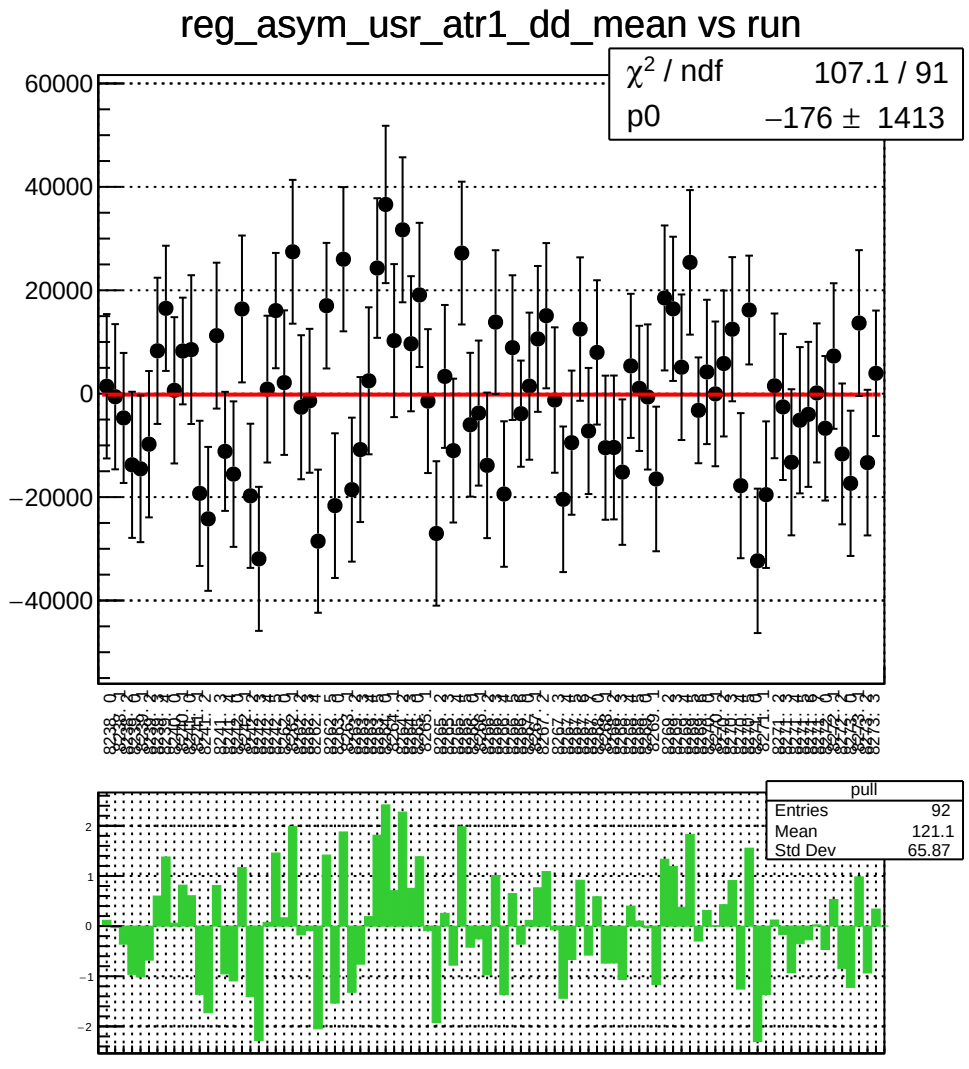

pull1D
Entries 92
Mean 0.02441
Std Dev 1.032

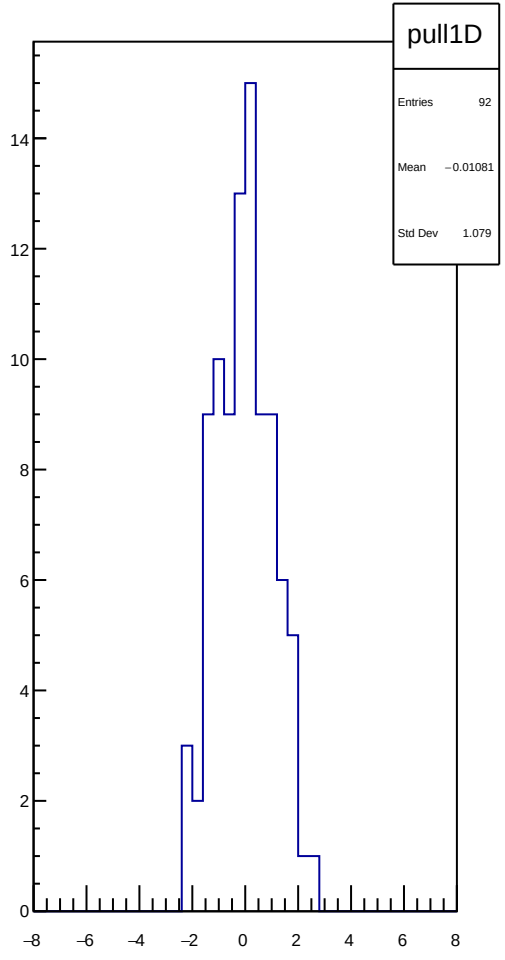

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.773e+05 / 91
p0 82.33 ± 0.06497
250
200
150
100
50

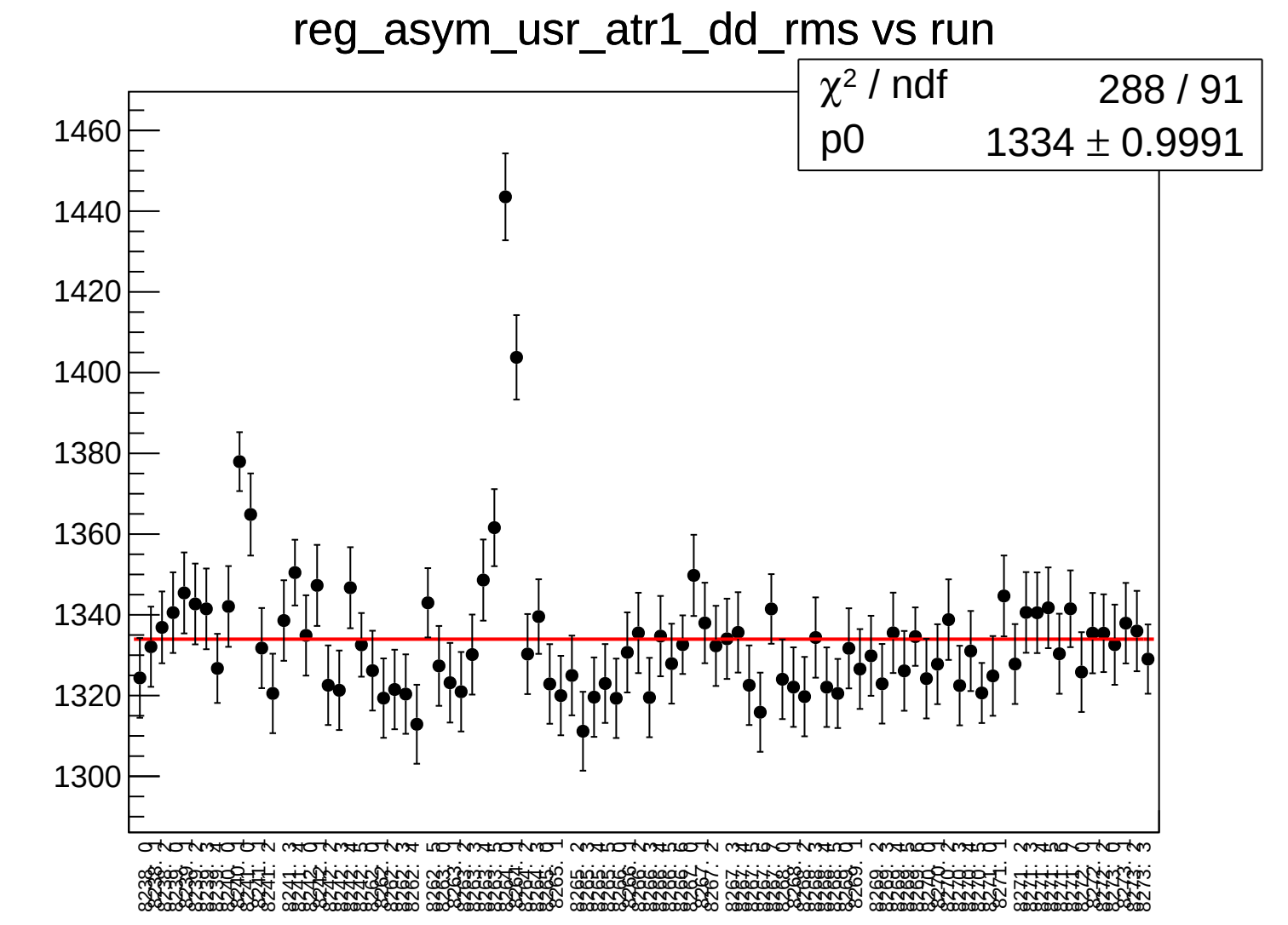

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.21 / 91
p0 −3.045e−14 ± 1.283e−13
pull
Entries 92
Mean 78.78
Std Dev 103.4

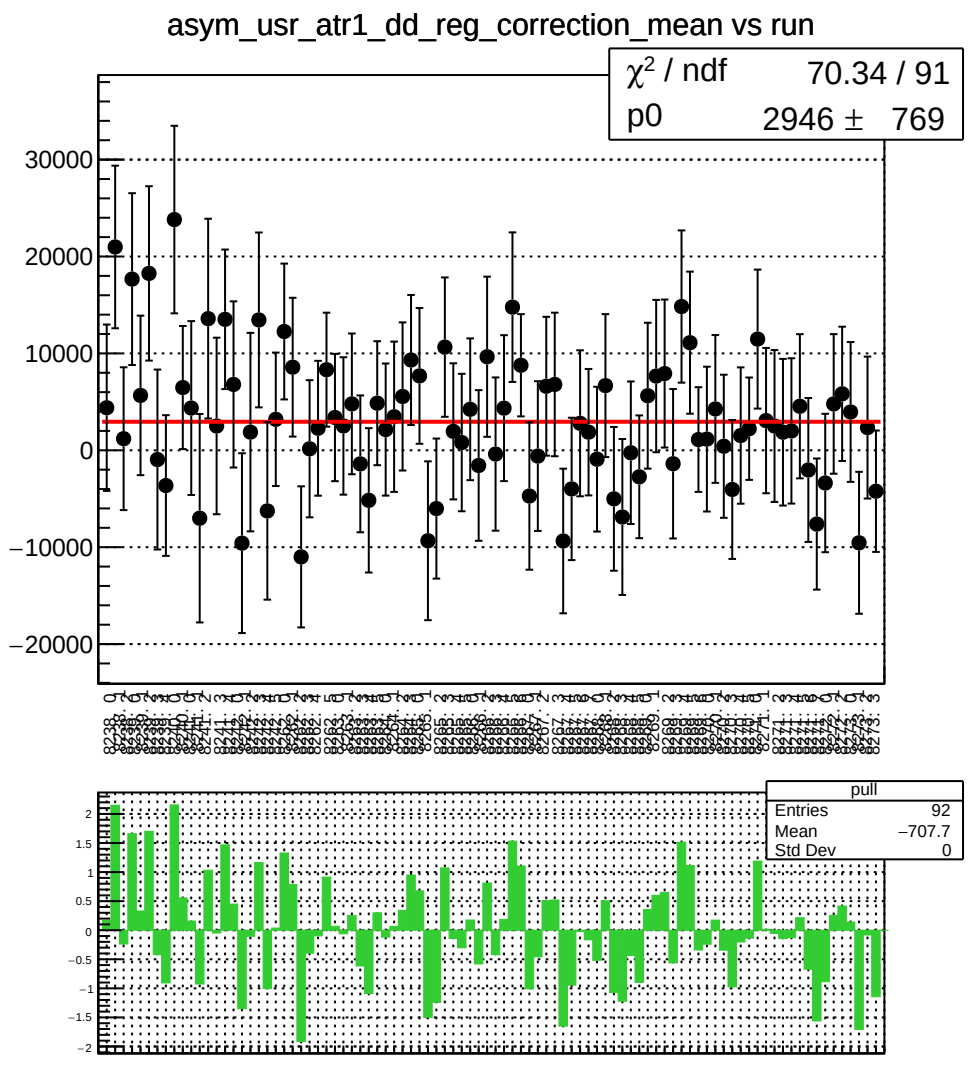

pull1D
Entries 92
Mean −0.0165
Std Dev 1.033

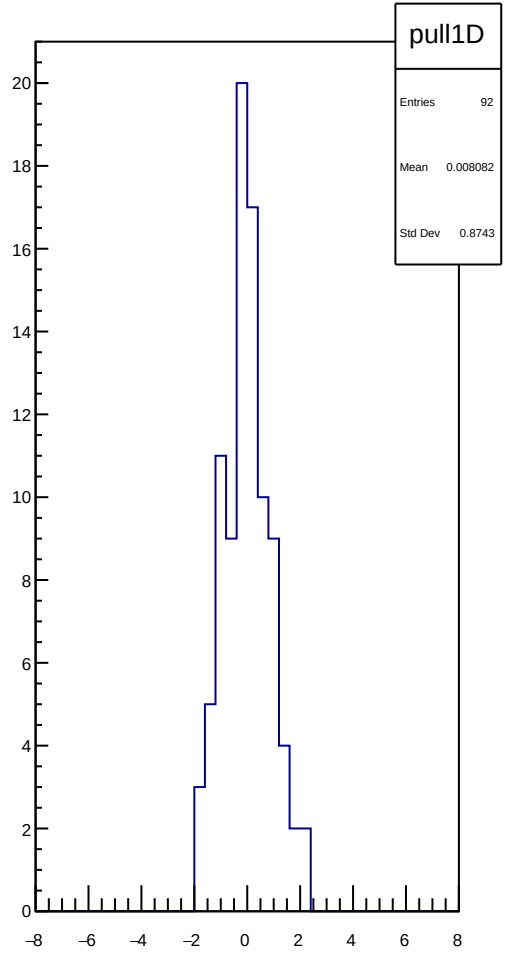

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.315e+05 / 91
p0 8.847e−11 ± 9.071e−14
1.4
1.2
1
0.8
0.6
0.4
0.2

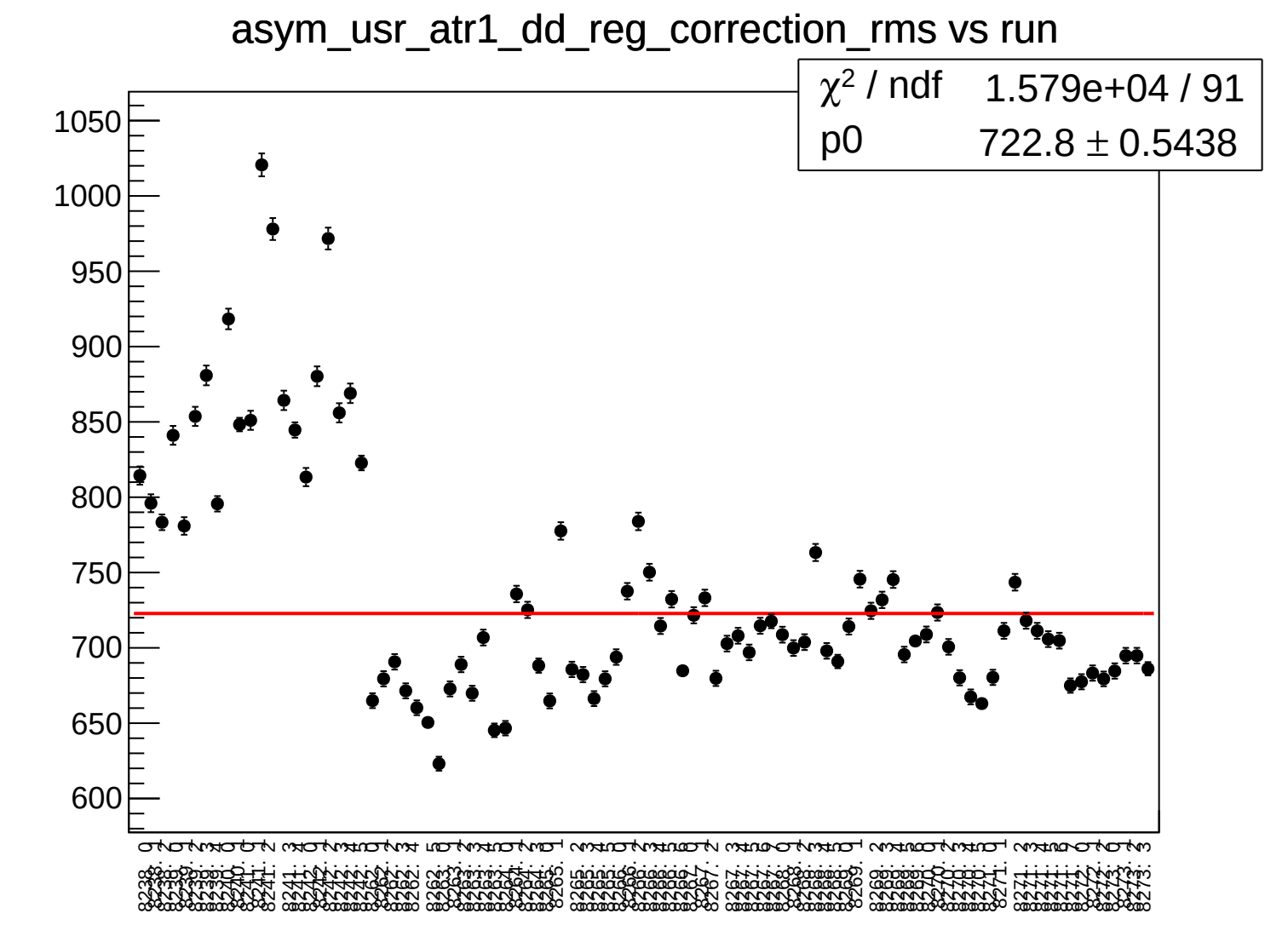

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 107.1 / 91
p0 −176 ± 1413
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 121.1
Std Dev 65.87
2
1
0
−1
−2

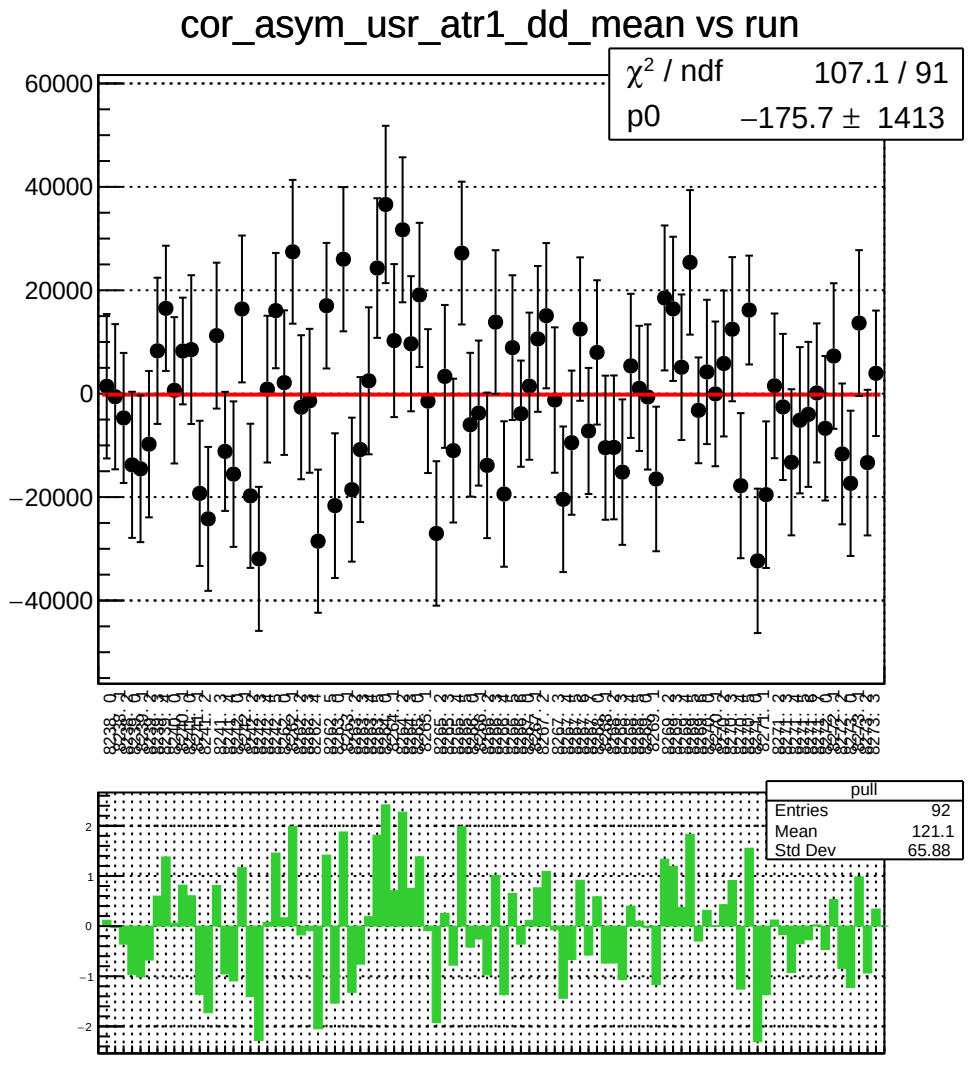

pull1D
Entries 92
Mean −0.01081
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

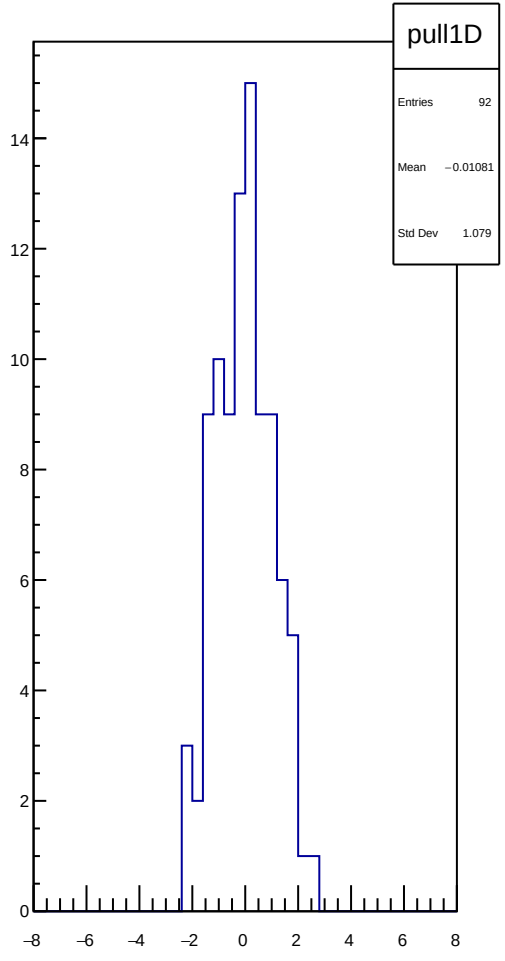

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 288 / 91
p0 1334 ± 0.9991
1460
1440
1420
1400
1380
1360
1340
1320
1300

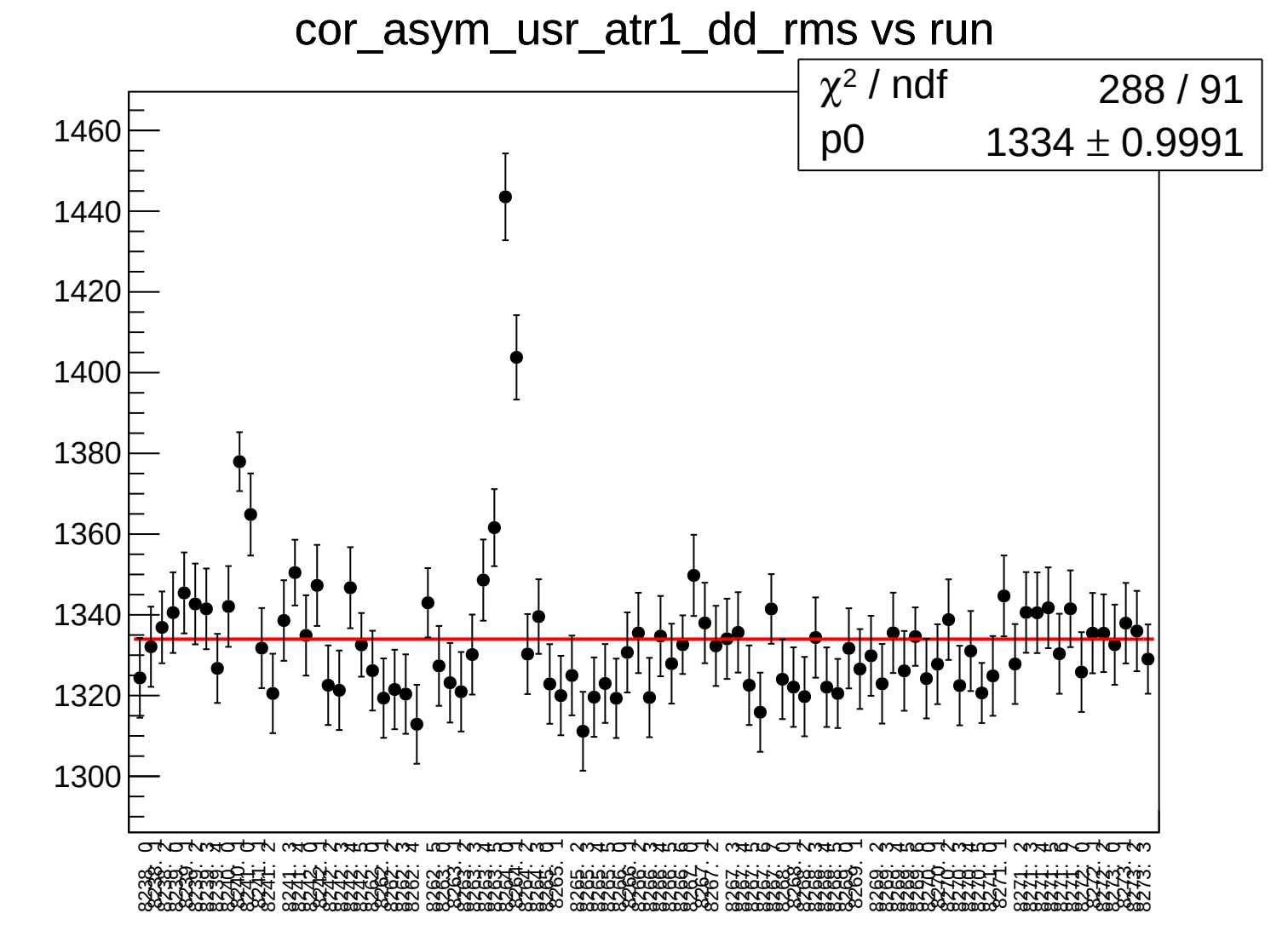

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 70.34 / 91
p0 2946 ± 769
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −707.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

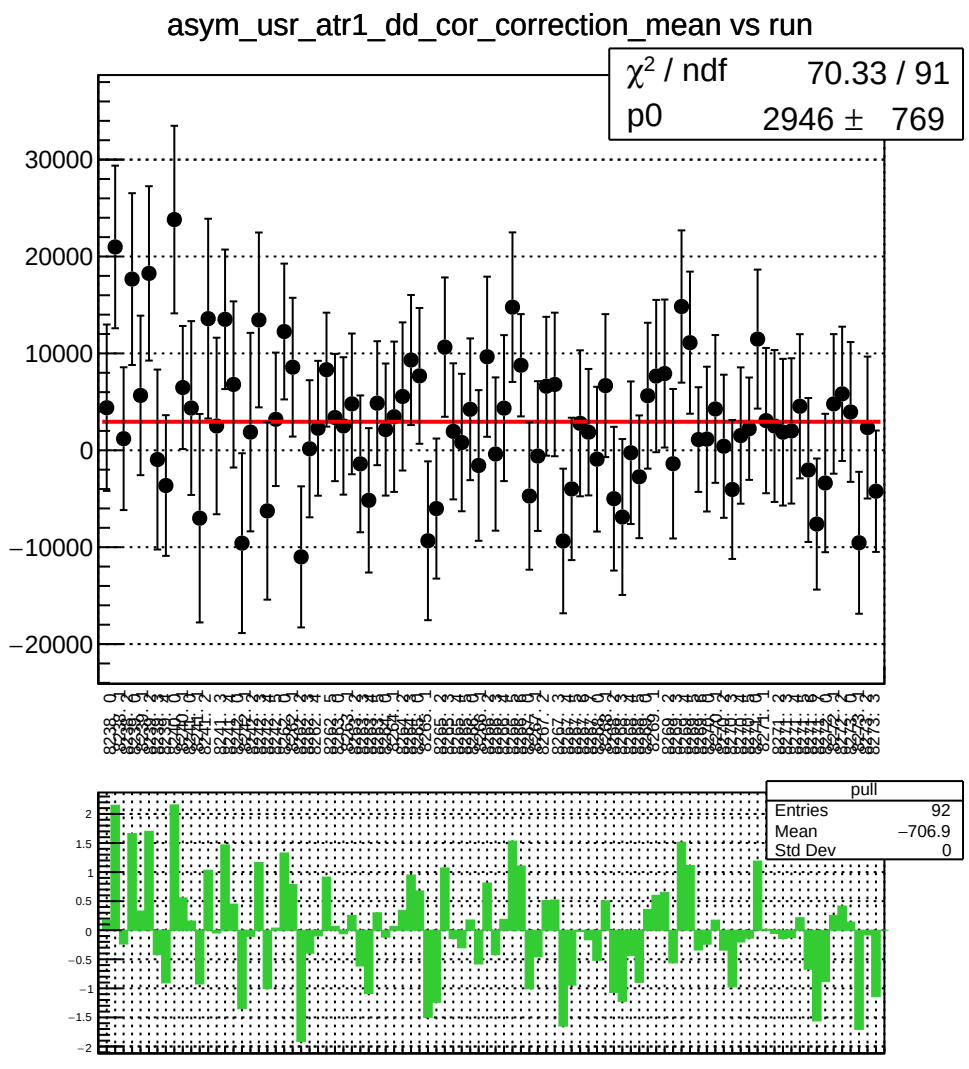

pull1D
Entries 92
Mean 0.008082
Std Dev 0.8743
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

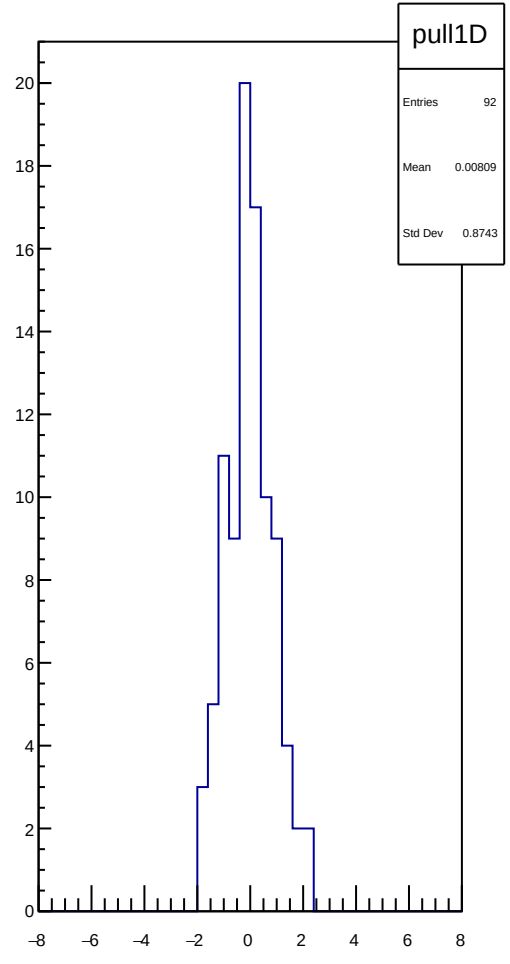

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 1.579e+04 / 91
p0 722.8 ± 0.5438
1050
1000
950
900
850
800
750
700
650
600

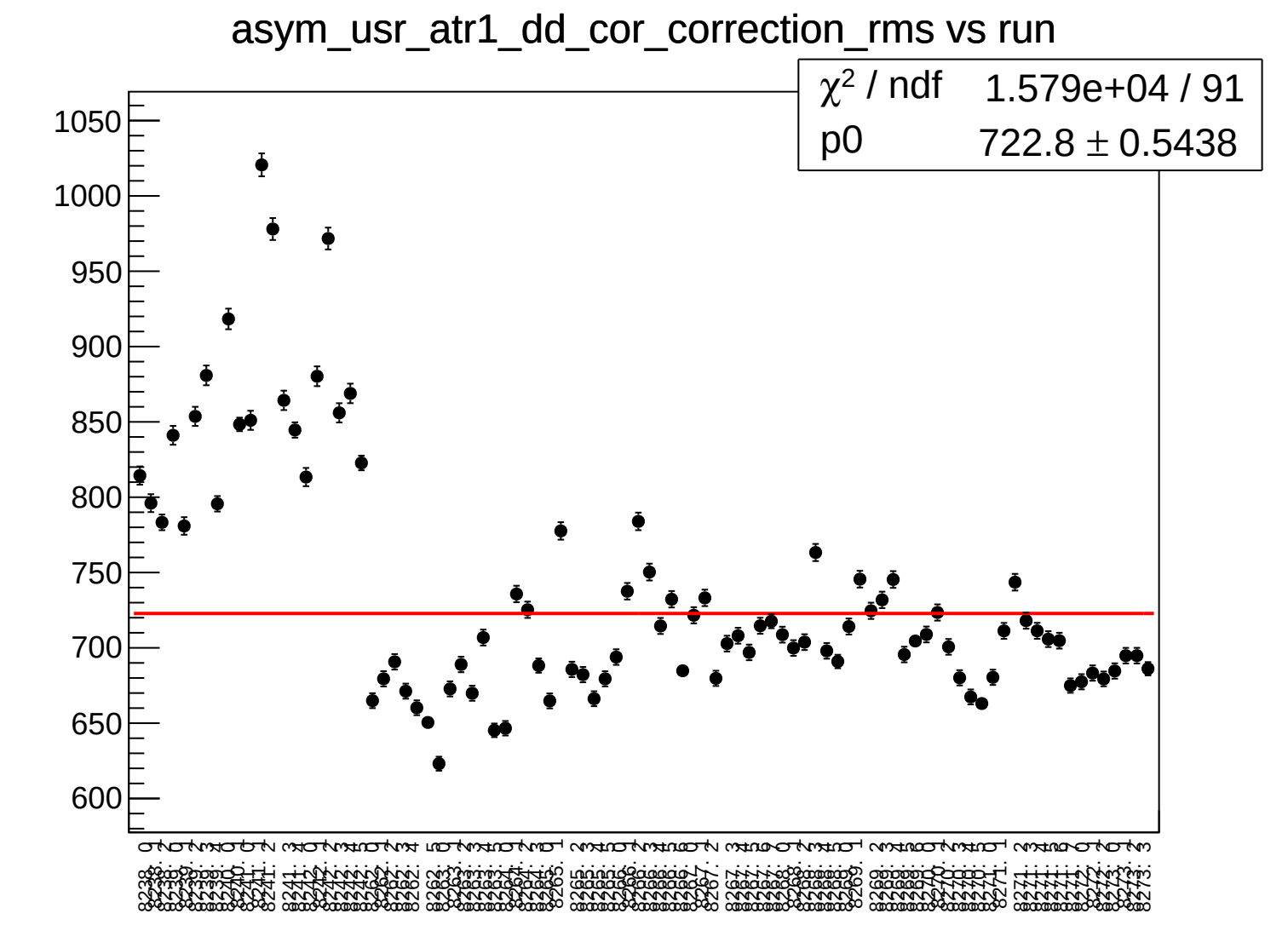

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 107.1 / 91
p0 −175.7 ± 1413
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 121.1
Std Dev 65.88
2
1
0
−1
−2

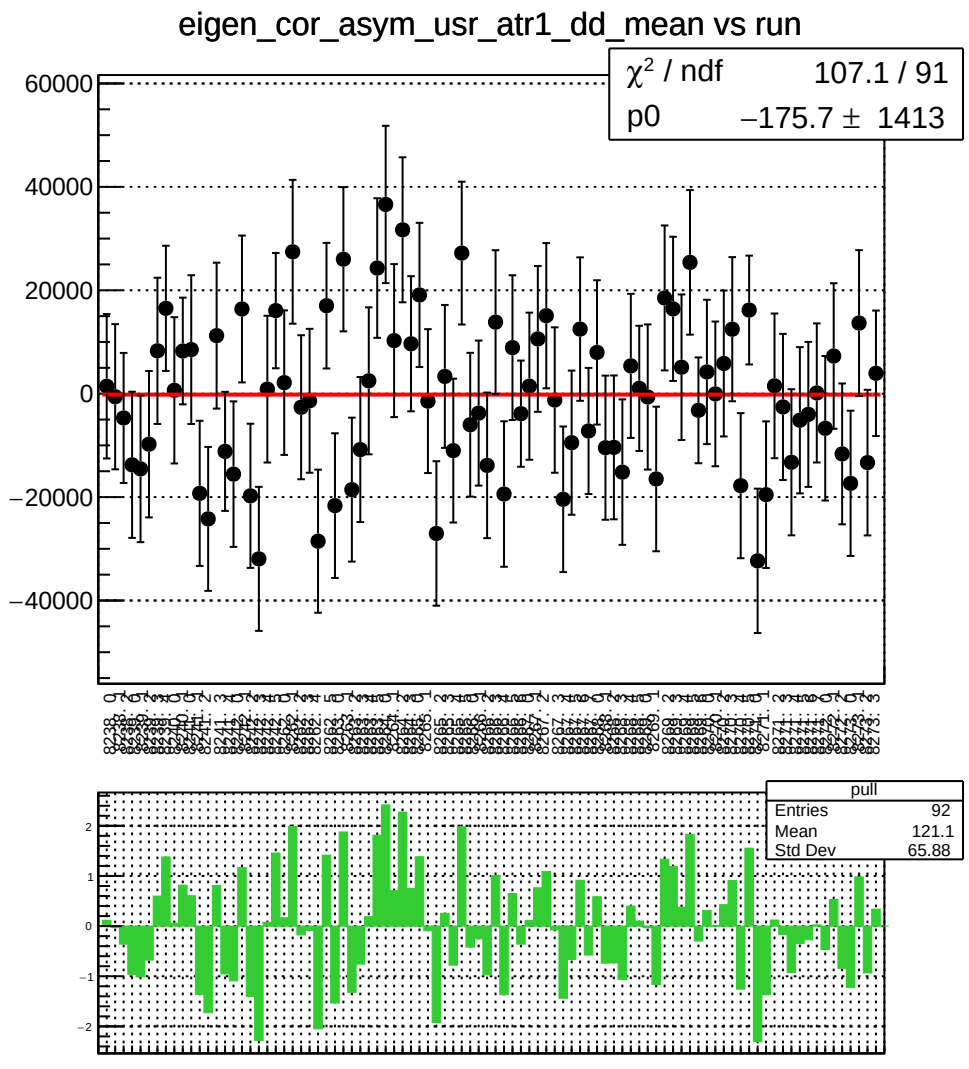

pull1D
Entries 92
Mean −0.01081
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

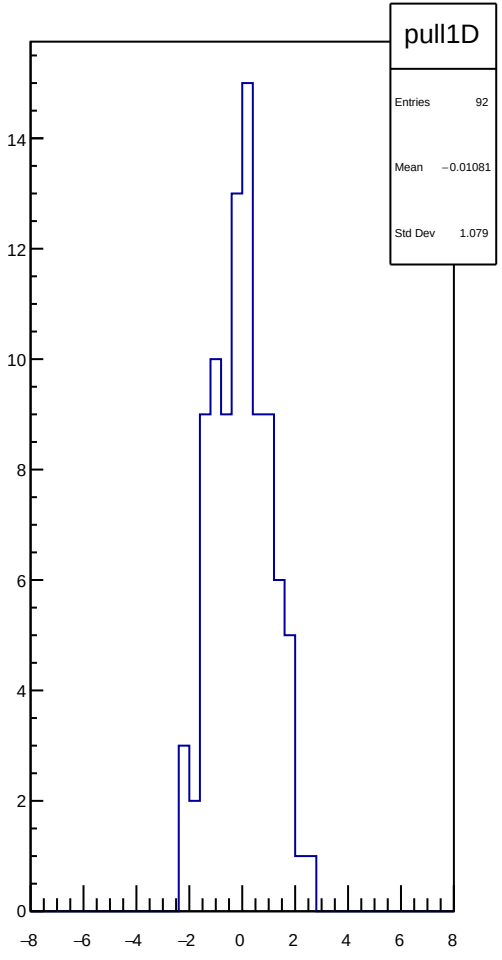

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 288 / 91
p0 1334 ± 0.9991
1460
1440
1420
1400
1380
1360
1340
1320
1300

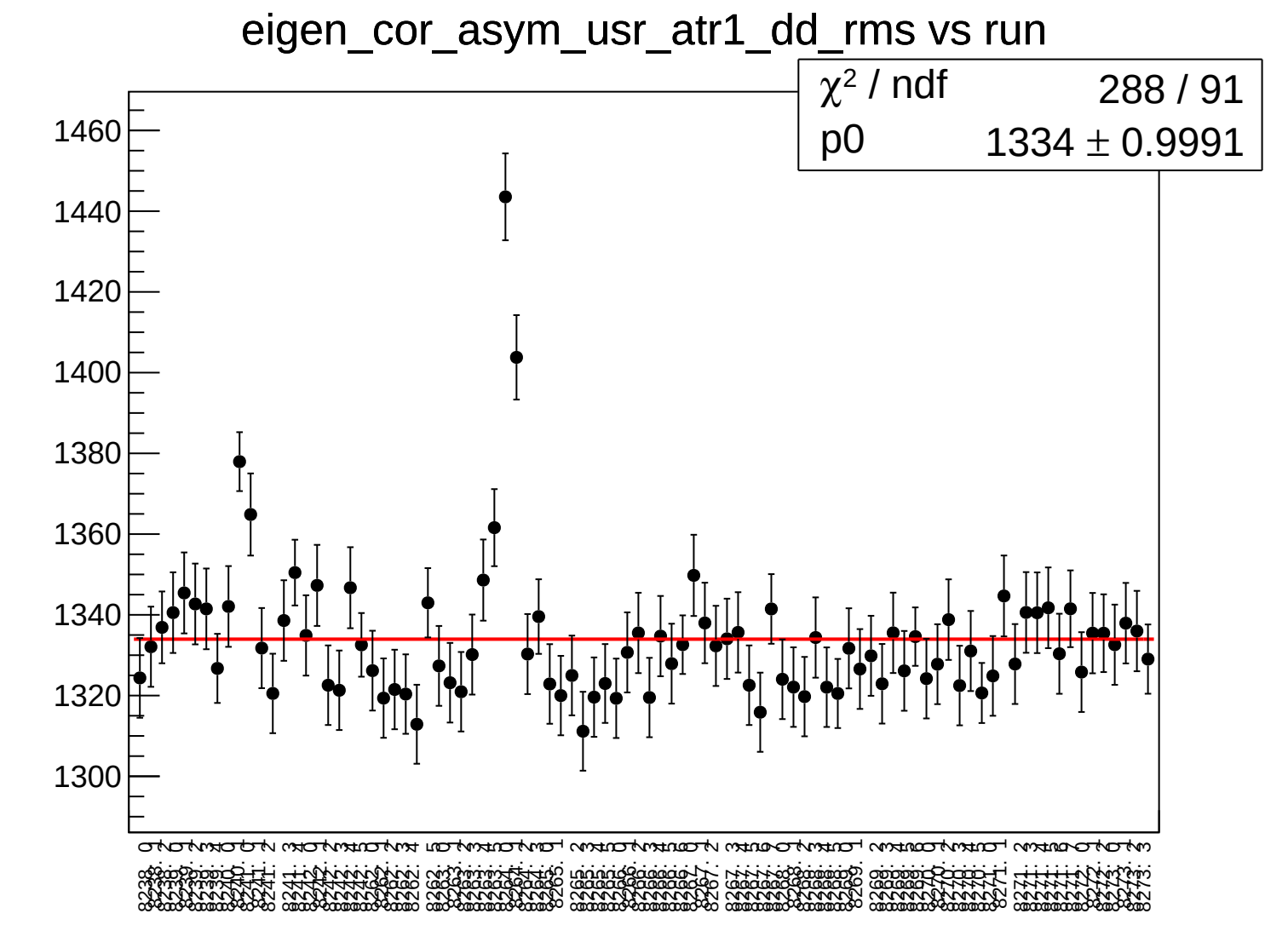

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 70.33 / 91
p0 2946 ± 769
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −706.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

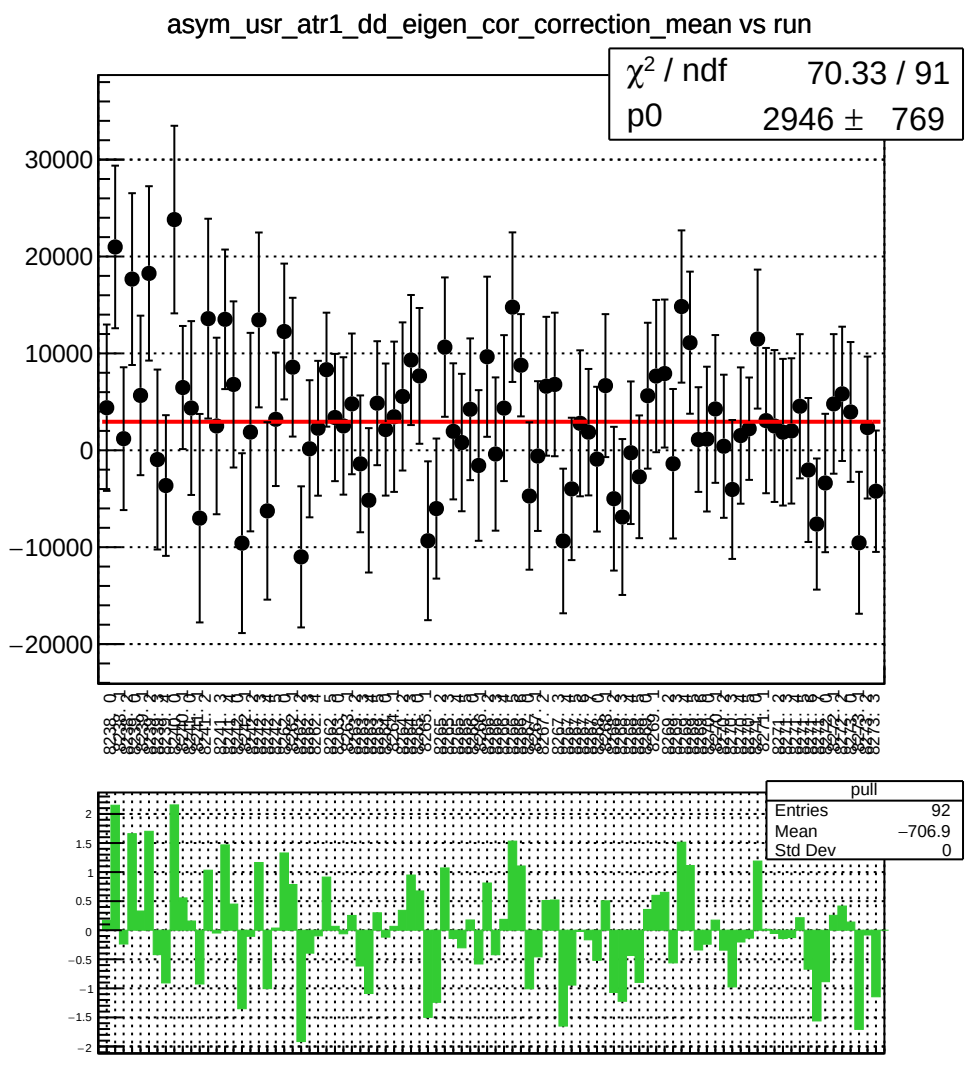

pull1D
Entries 92
Mean 0.00809
Std Dev 0.8743
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

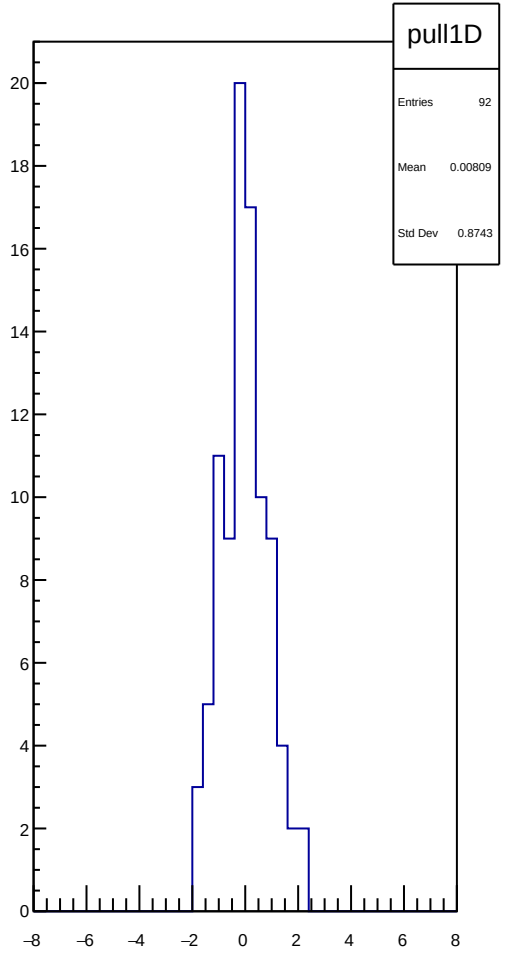

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1.579e+04 / 91
p0 722.8 ± 0.5438
1050
1000
950
900
850
800
750
700
650
600

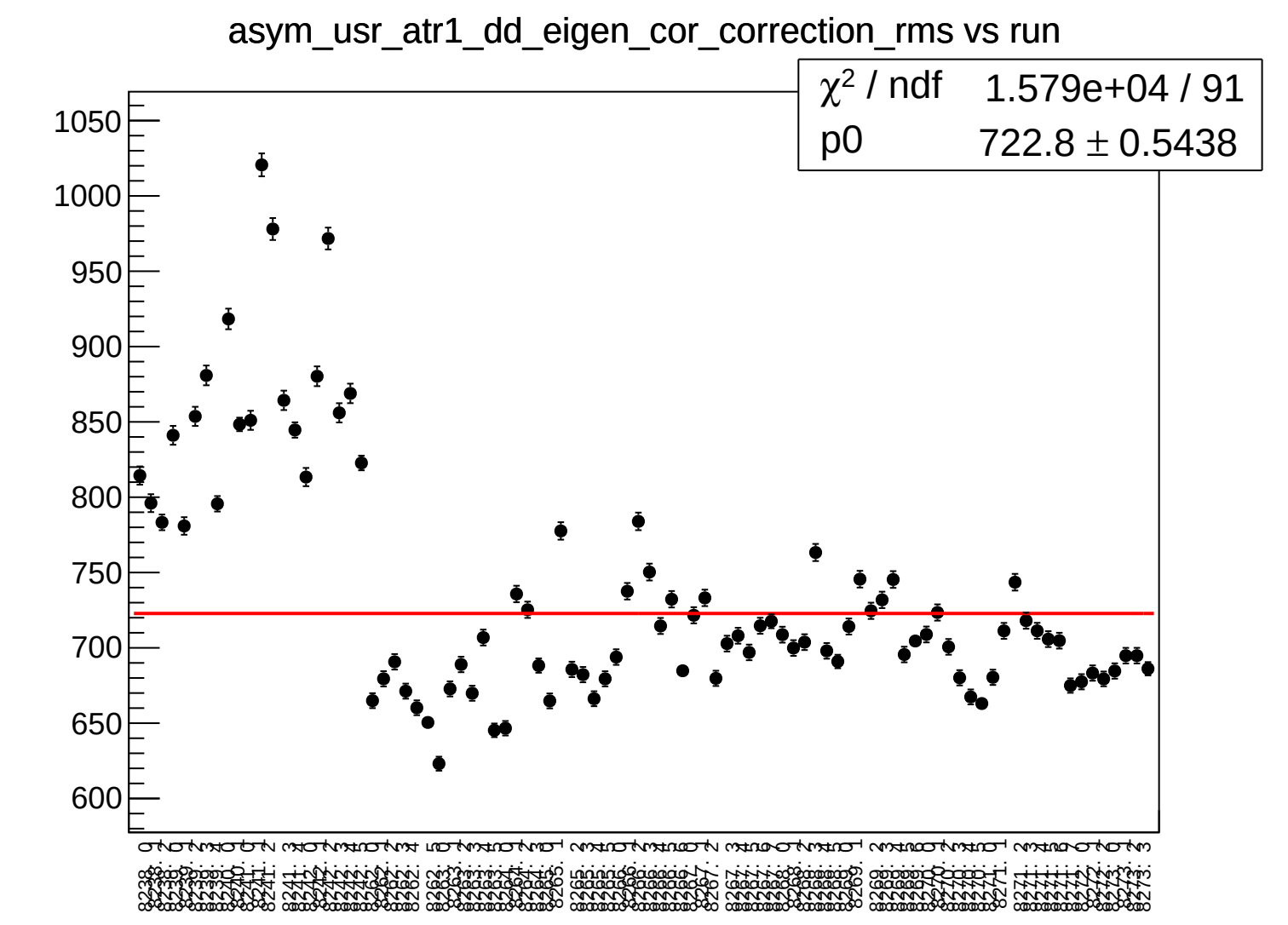

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 107.1 / 91
p0 −175.7 ± 1413
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 121.1
Std Dev 65.88
2
1
0
−1
−2

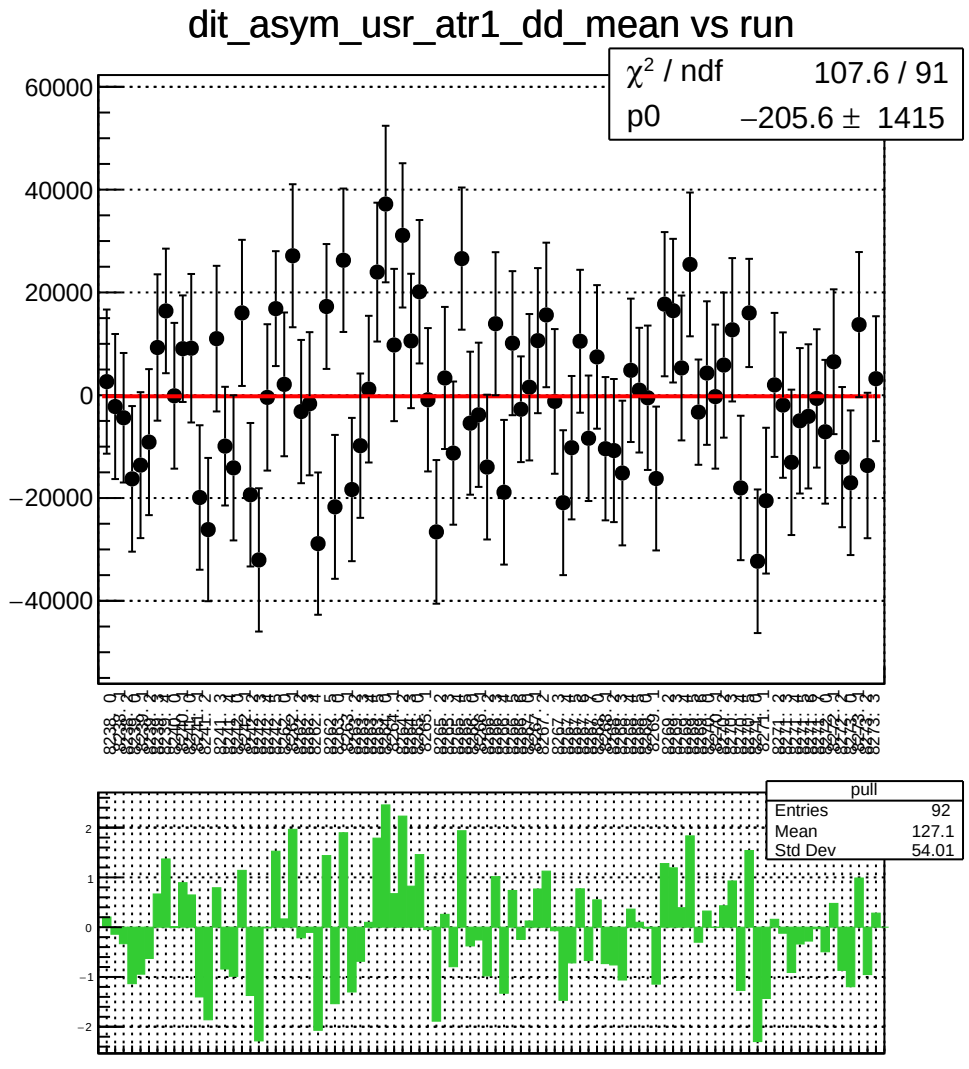

pull1D
Entries 92
Mean −0.01081
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

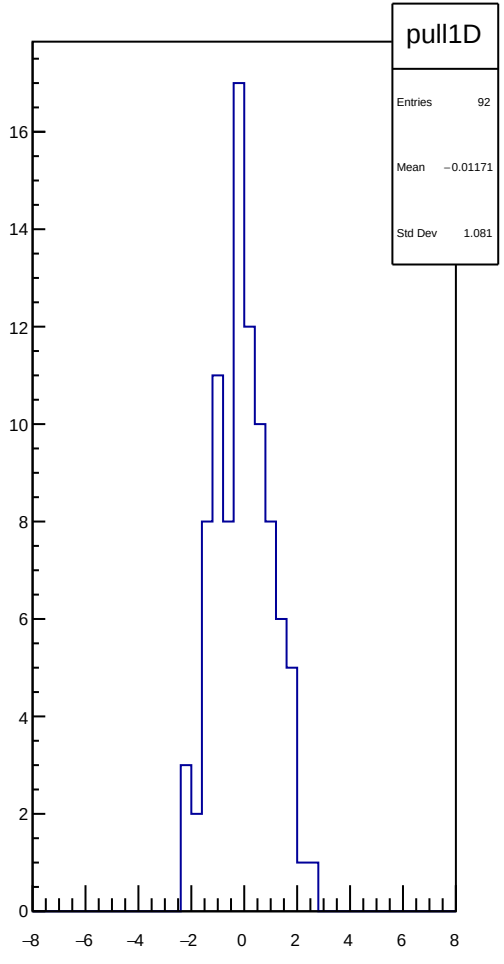

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 288 / 91
p0 1334 ± 0.9991
1460
1440
1420
1400
1380
1360
1340
1320
1300

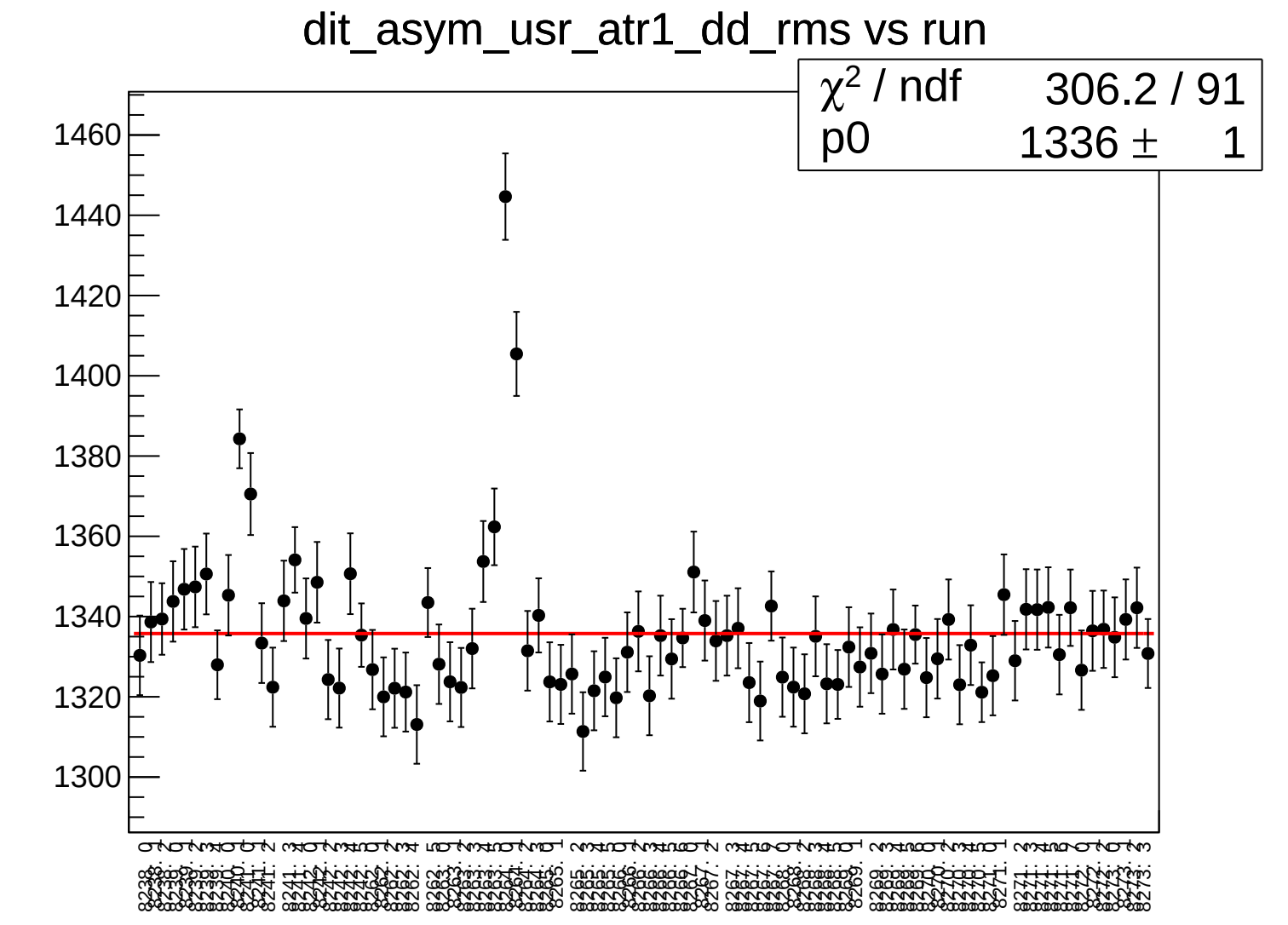

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.33 / 91
p0 2946 ± 769
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −706.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

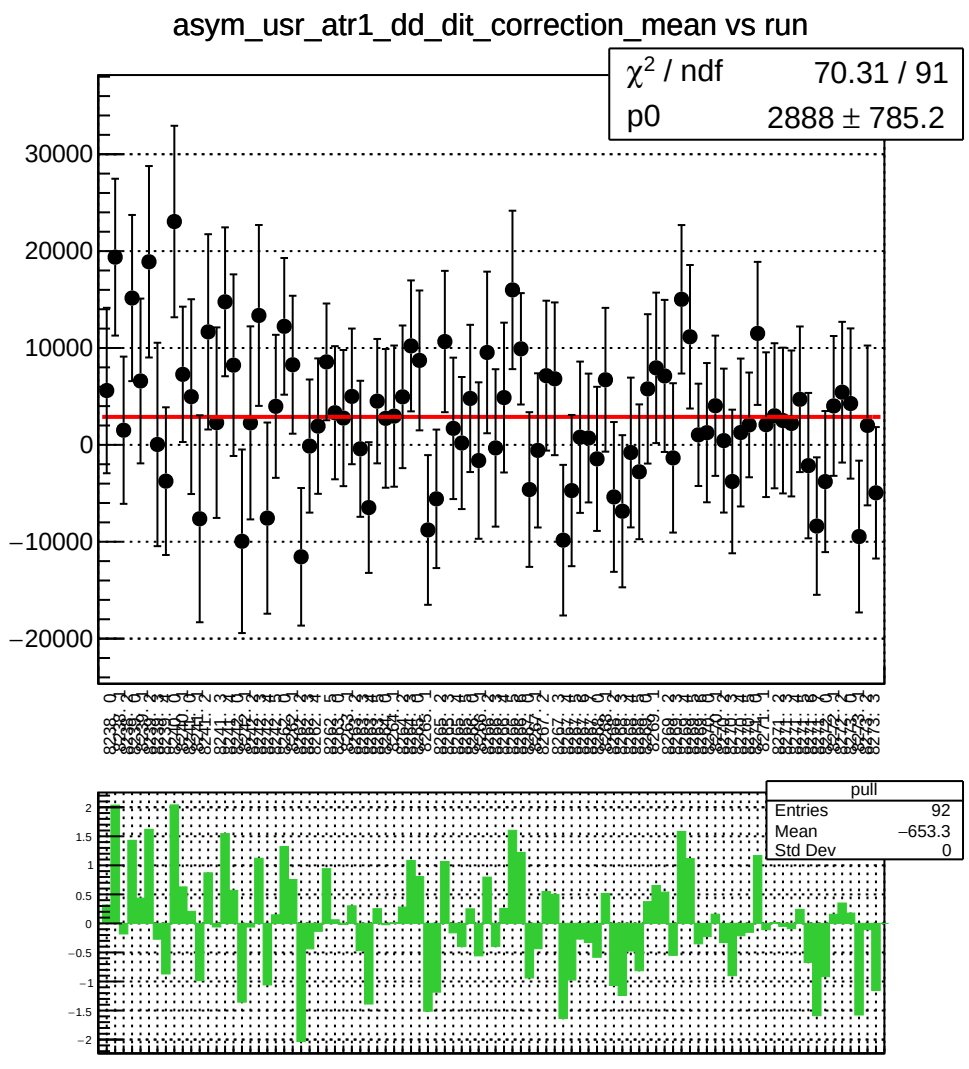

pull1D
Entries 92
Mean 0.00809
Std Dev 0.8743
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

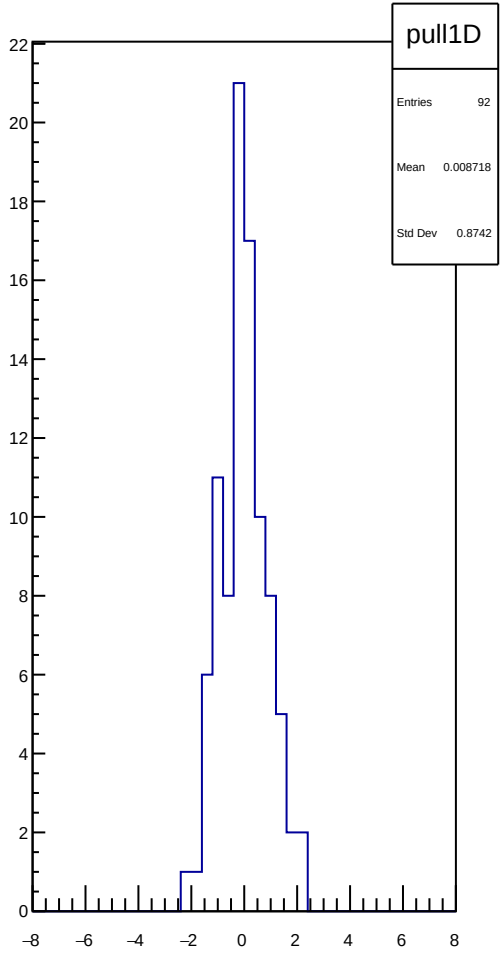

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.579e+04 / 91
p0 722.8 ± 0.5438
1050
1000
950
900
850
800
750
700
650
600

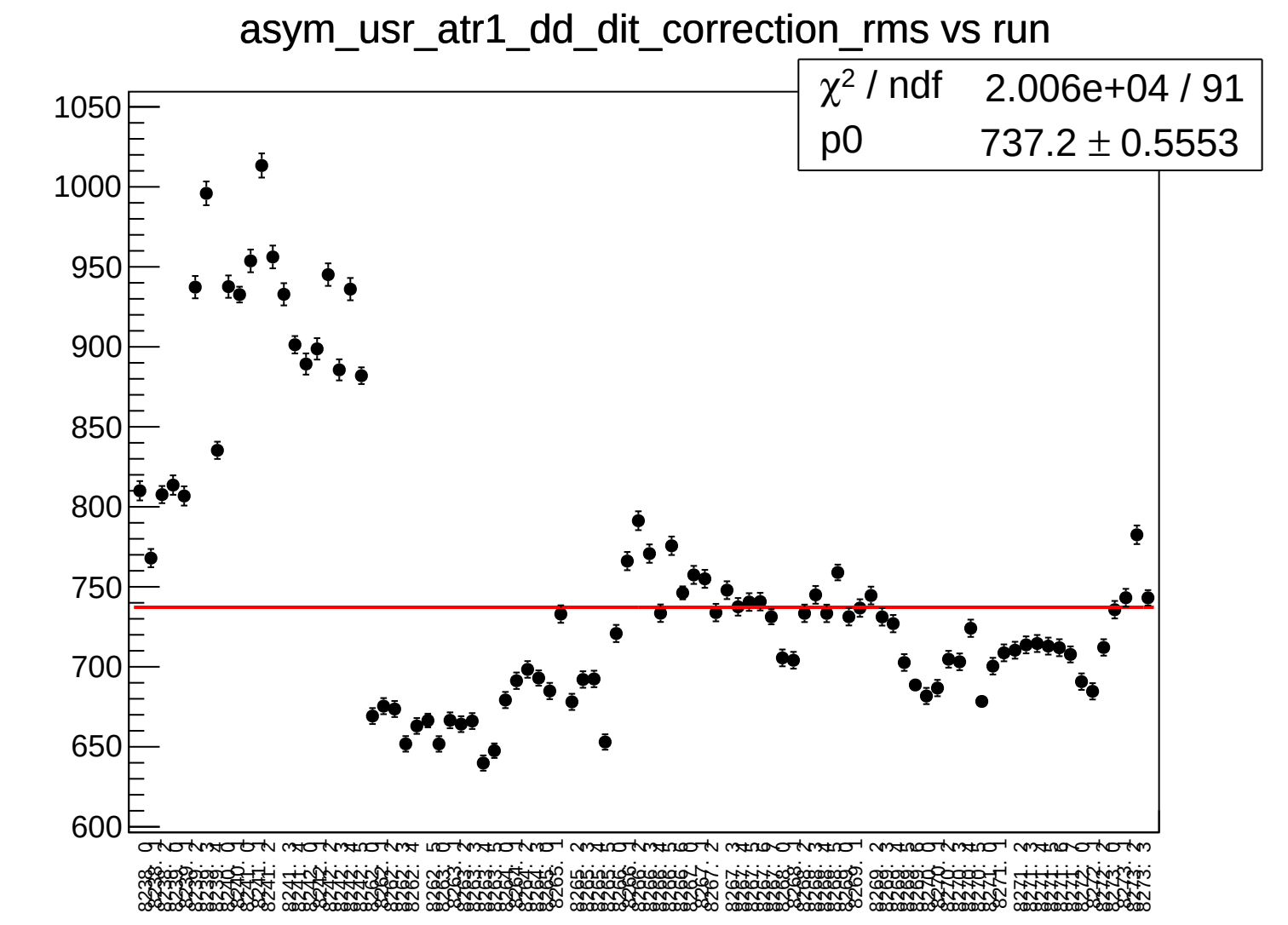

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 107.6 / 91
p0 −205.6 ± 1415
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 127.1
Std Dev 54.01
2
1
0
−1
−2

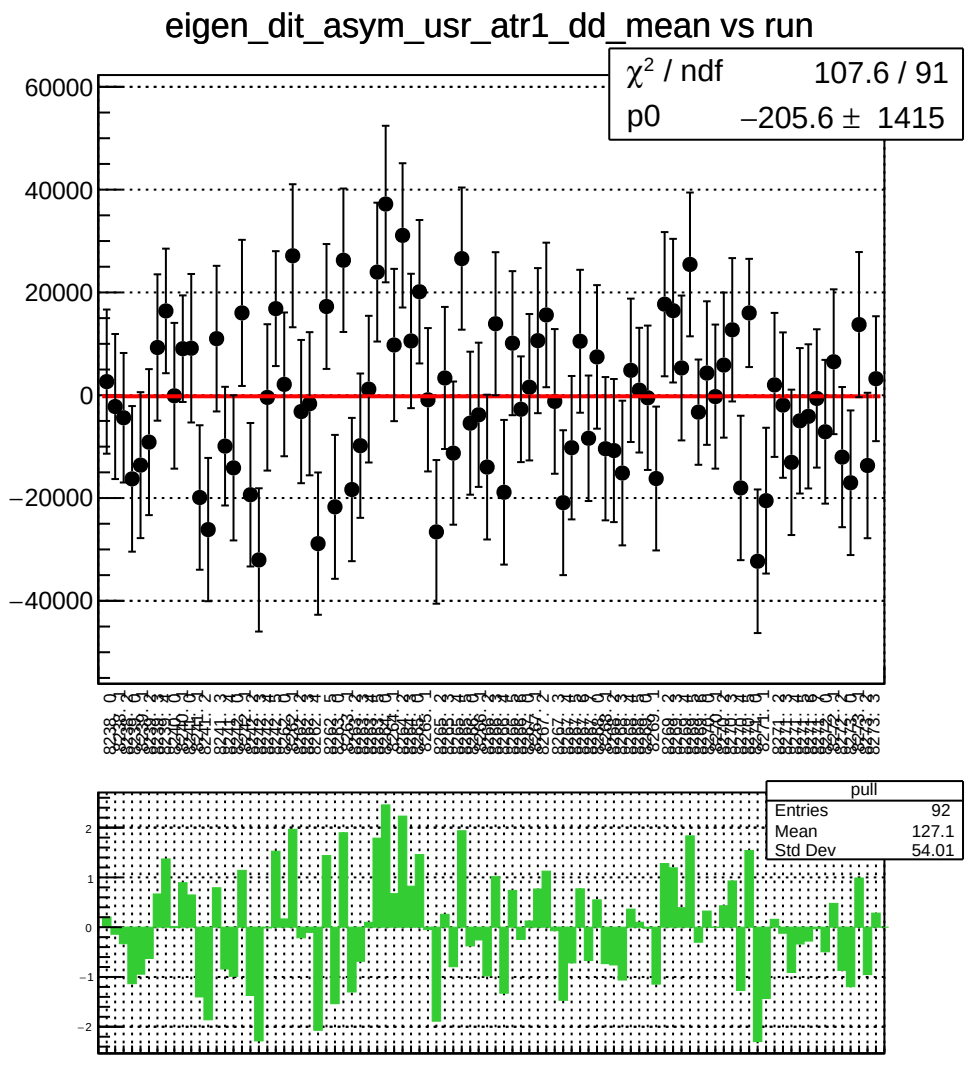

pull1D
Entries 92
Mean −0.01171
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

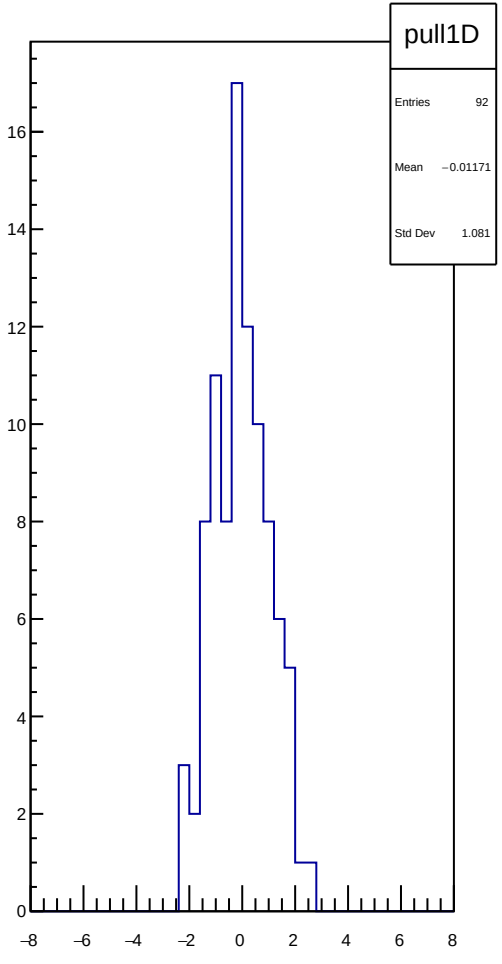

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 306.2 / 91
p0 1336 ± 1
1460
1440
1420
1400
1380
1360
1340
1320
1300

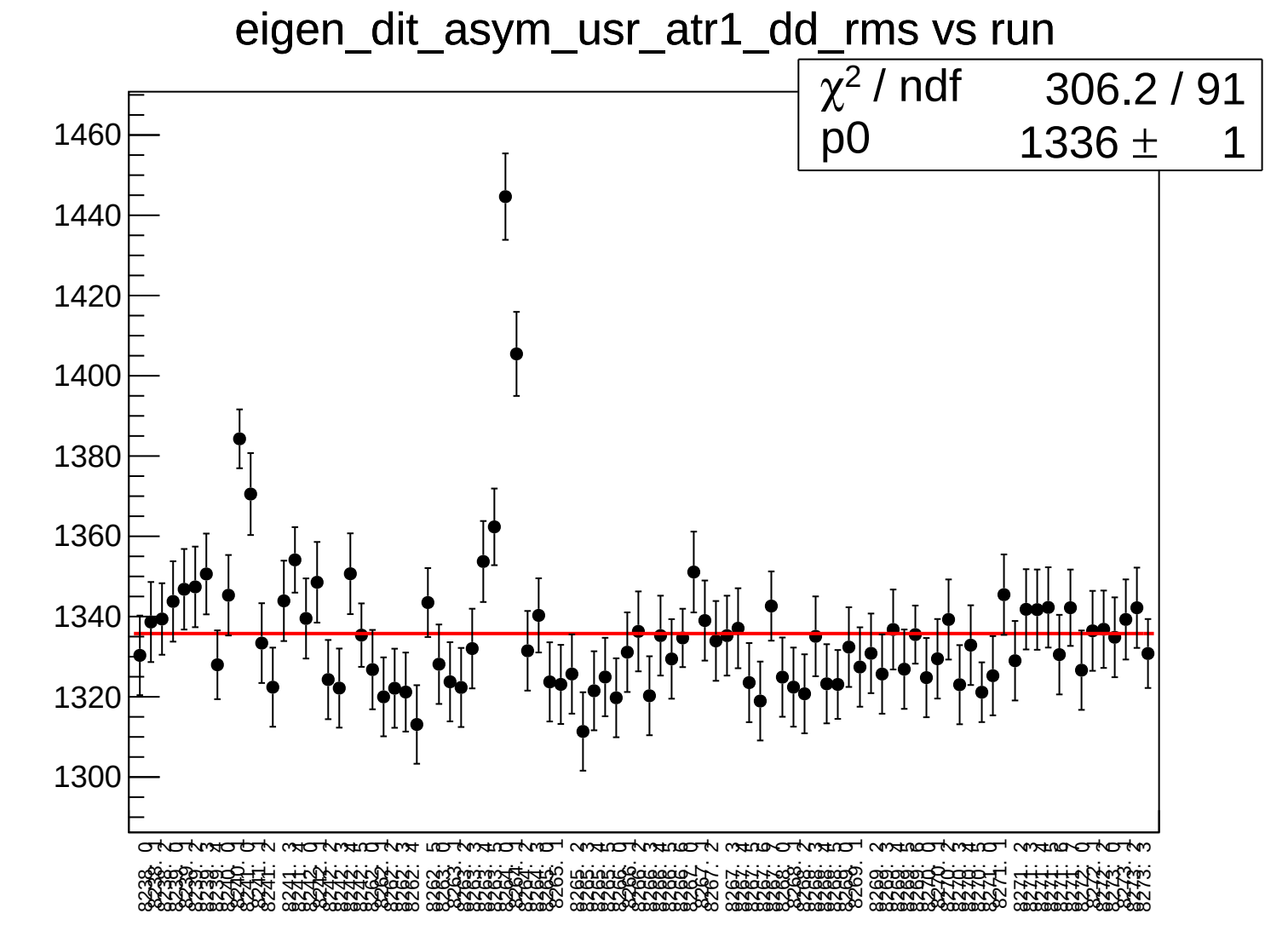

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 70.31 / 91
p0 2888 ± 785.2
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −653.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

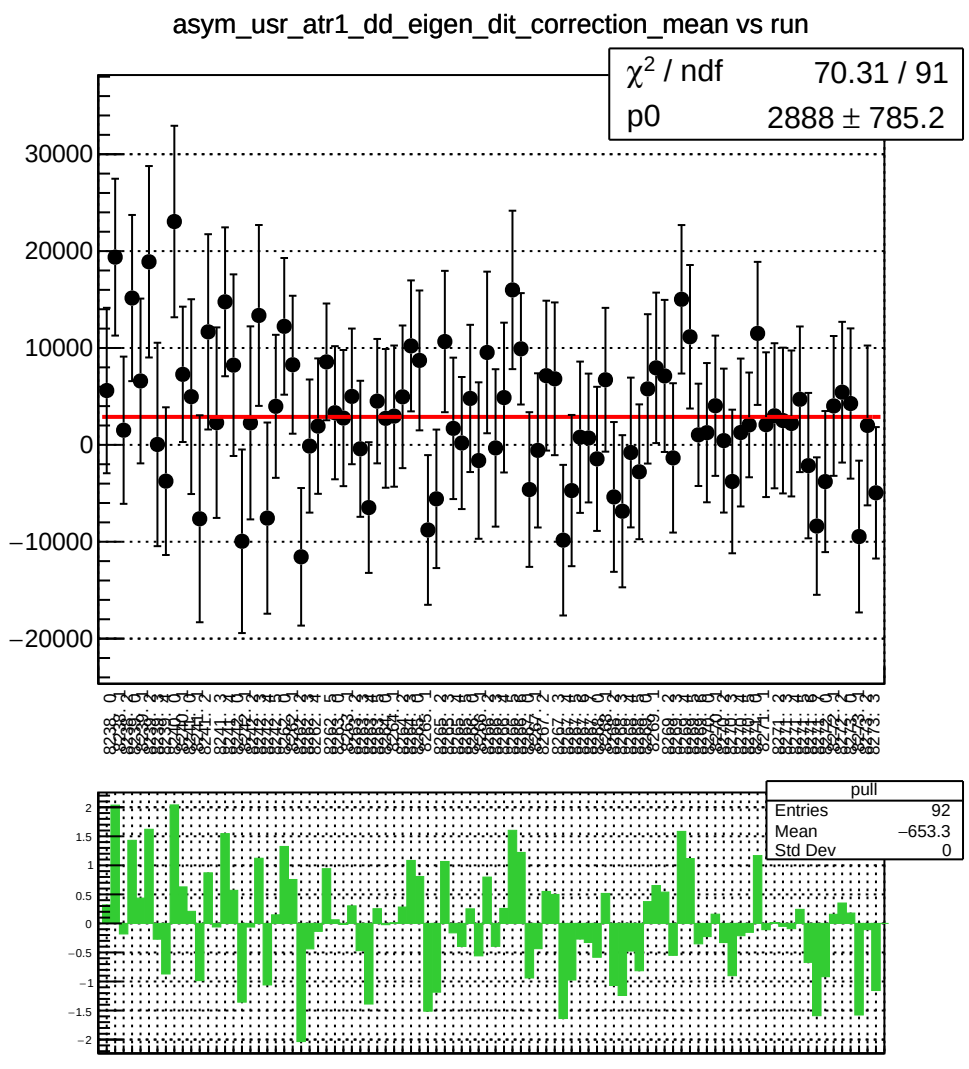

pull1D
Entries 92
Mean 0.008718
Std Dev 0.8742
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

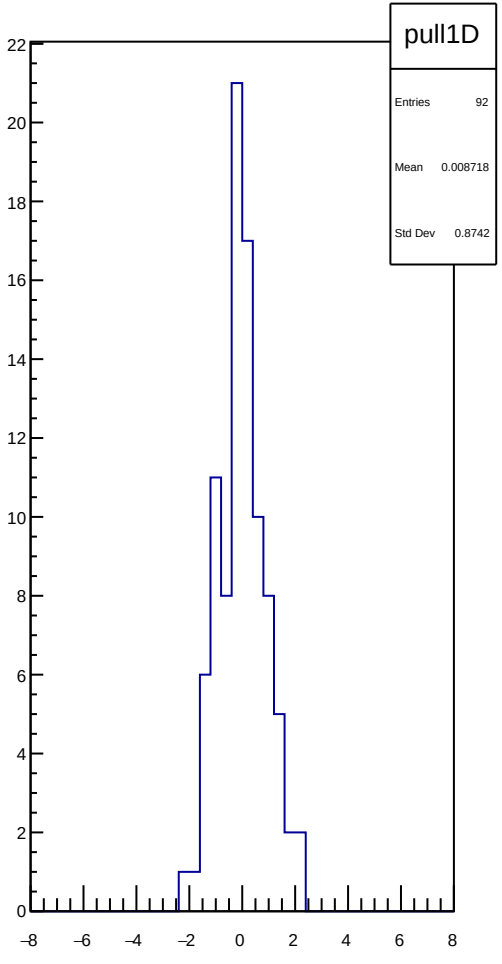

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 2.006e+04 / 91
p0 737.2 ± 0.5553
1050
1000
950
900
850
800
750
700
650
600

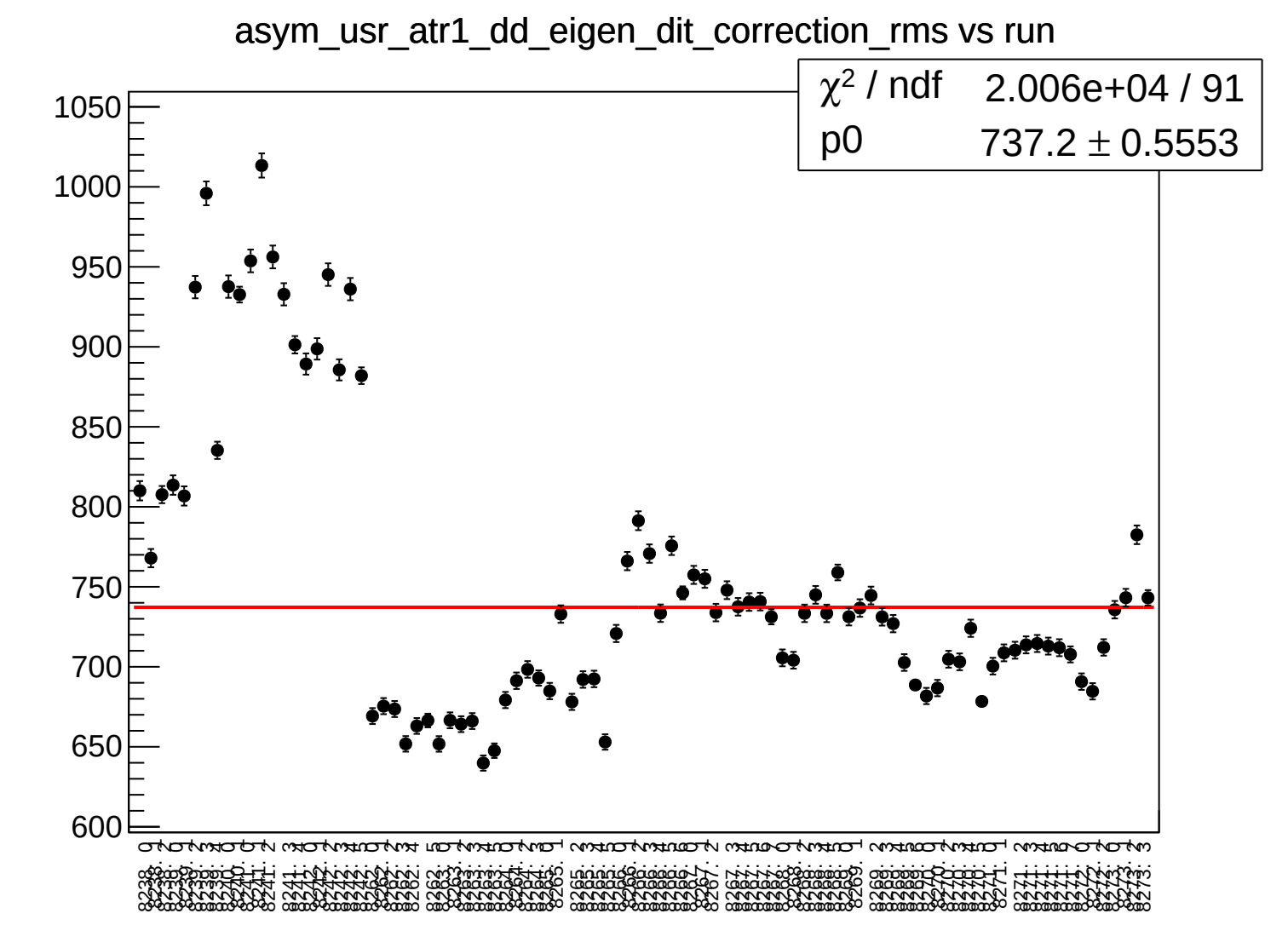

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 107.6 / 91
p0 −205.6 ± 1415
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 127.1
Std Dev 54.01
2
1
0
−1
−2

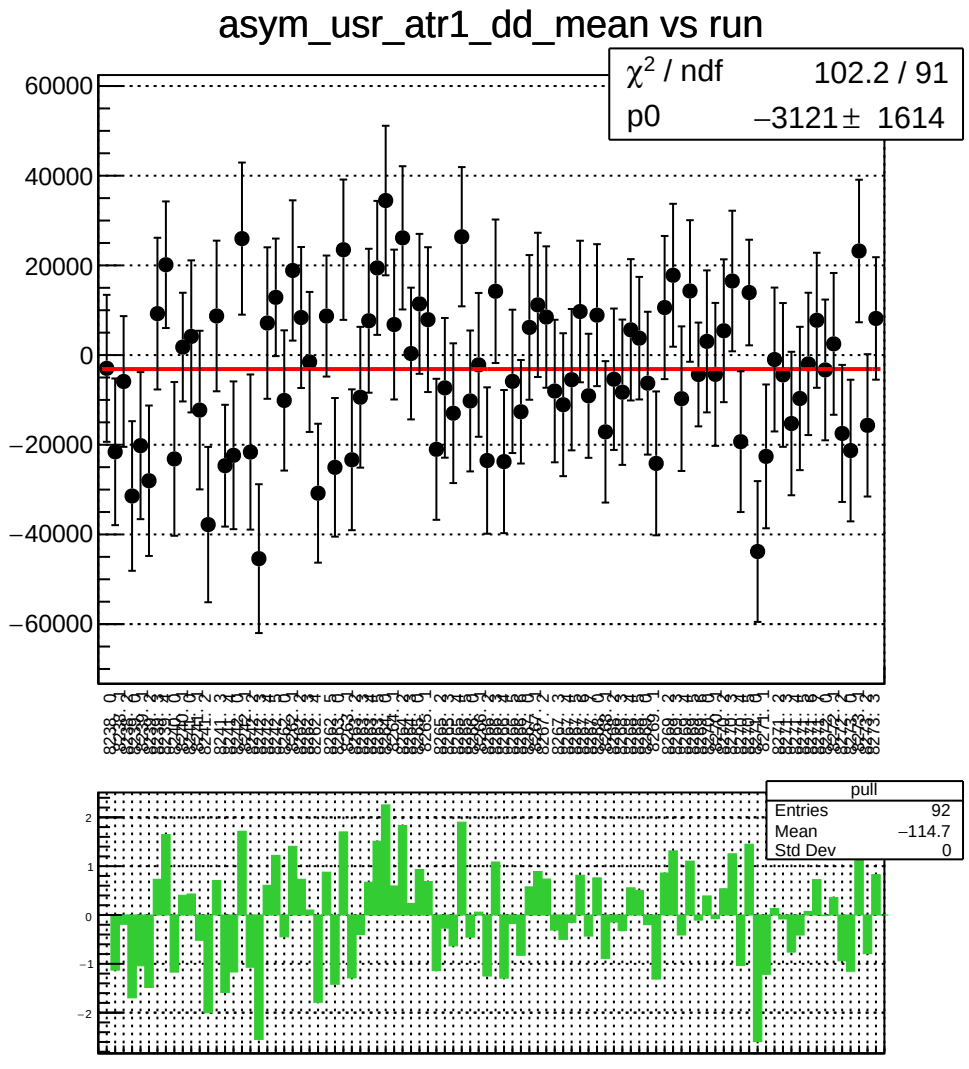

pull1D
Entries 92
Mean −0.01171
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

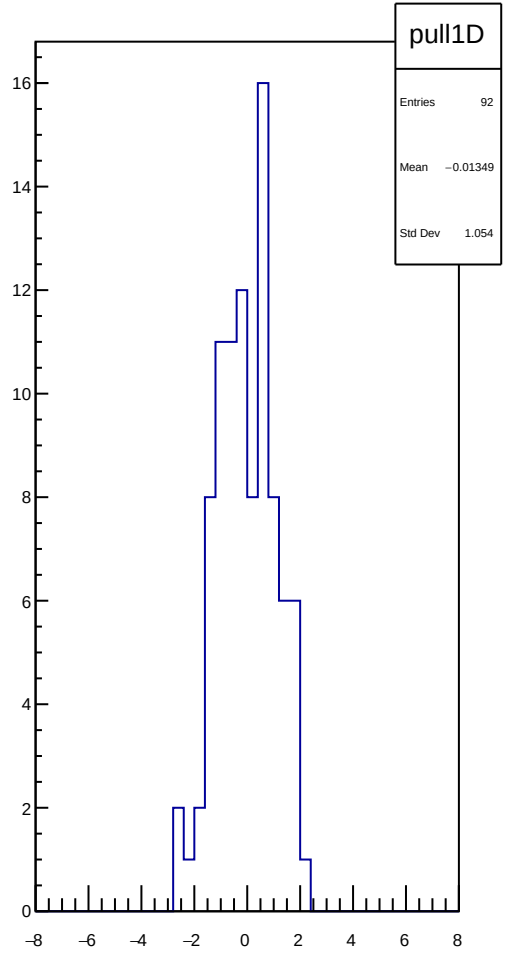

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 306.2 / 91
p0 1336 ± 1
1460
1440
1420
1400
1380
1360
1340
1320
1300

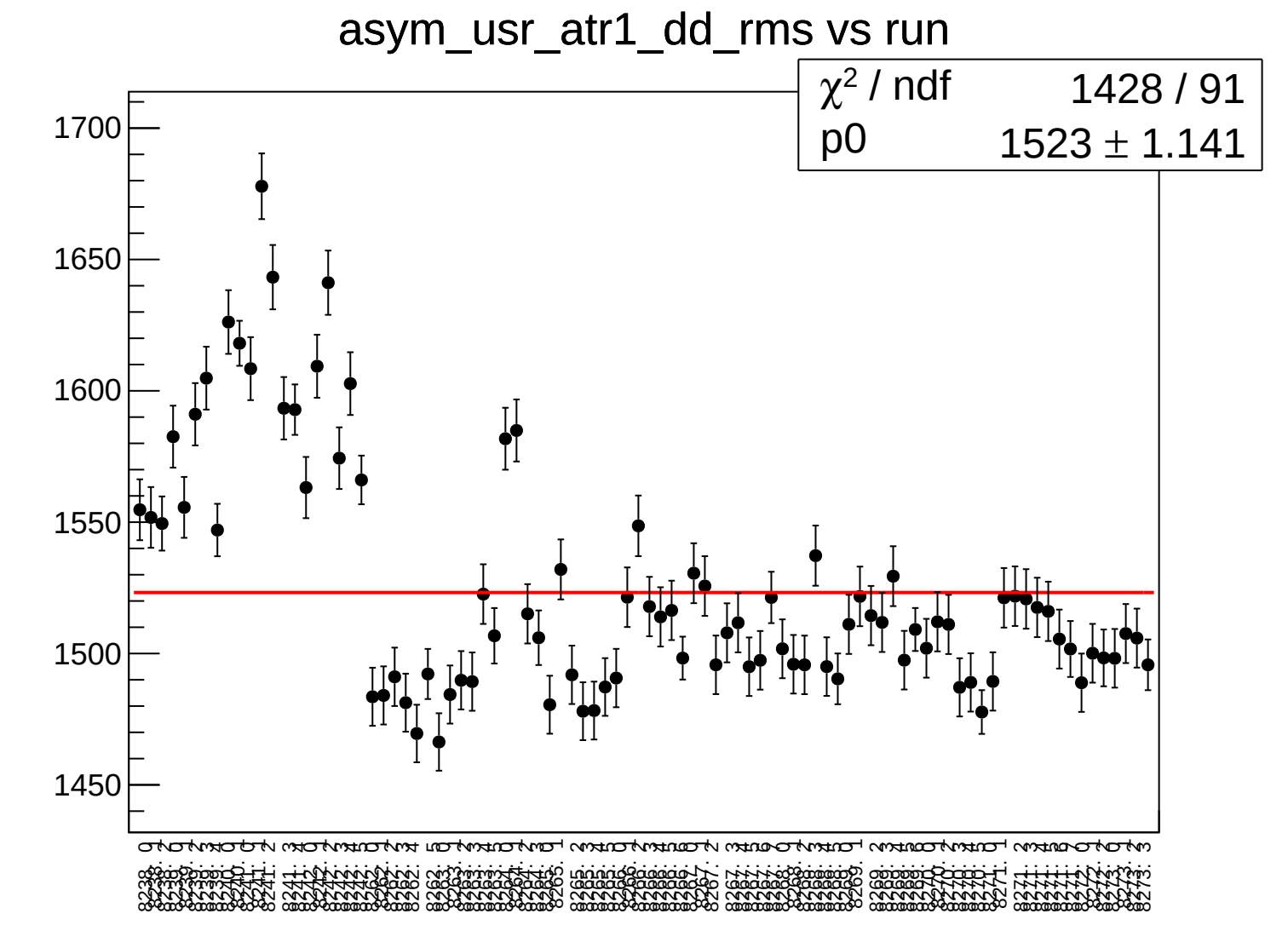

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.31 / 91
p0 2888 ± 785.2
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −653.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

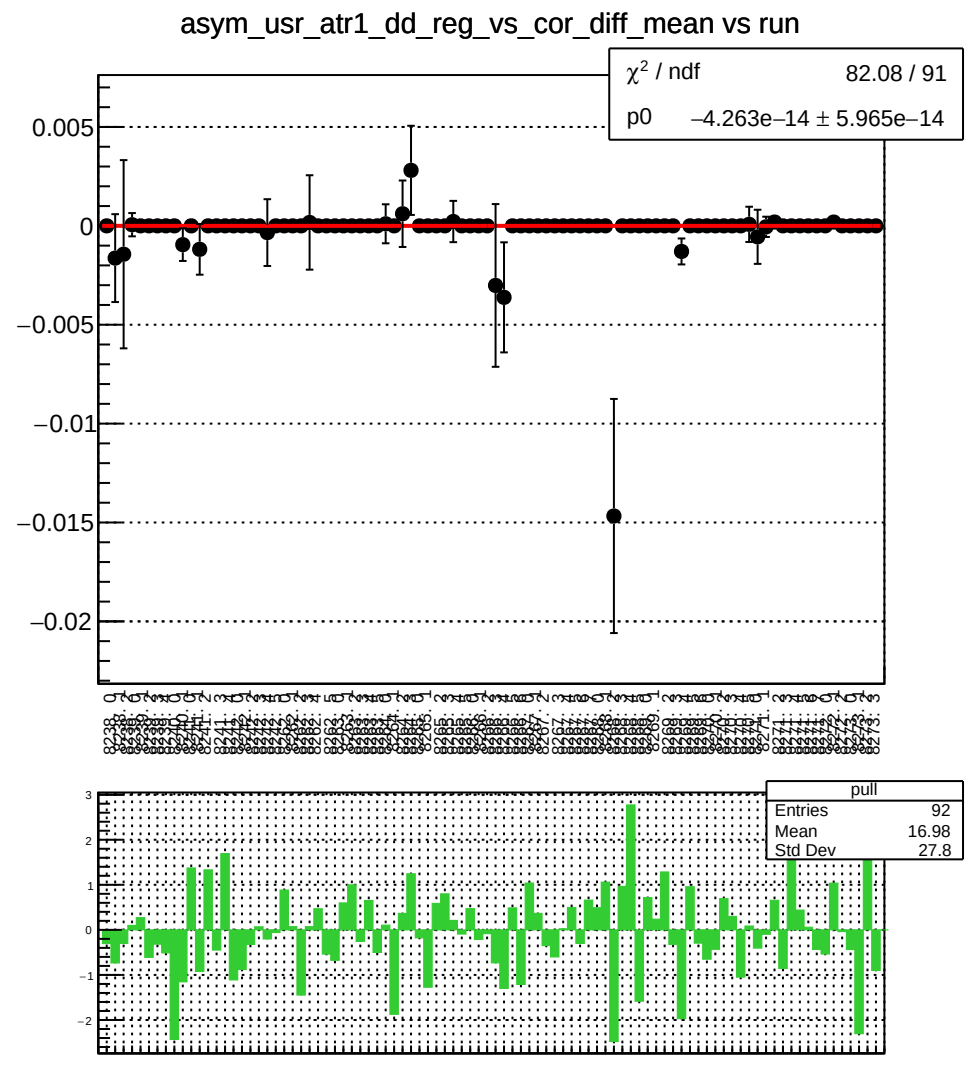

pull1D
Entries 92
Mean 0.008718
Std Dev 0.8742
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

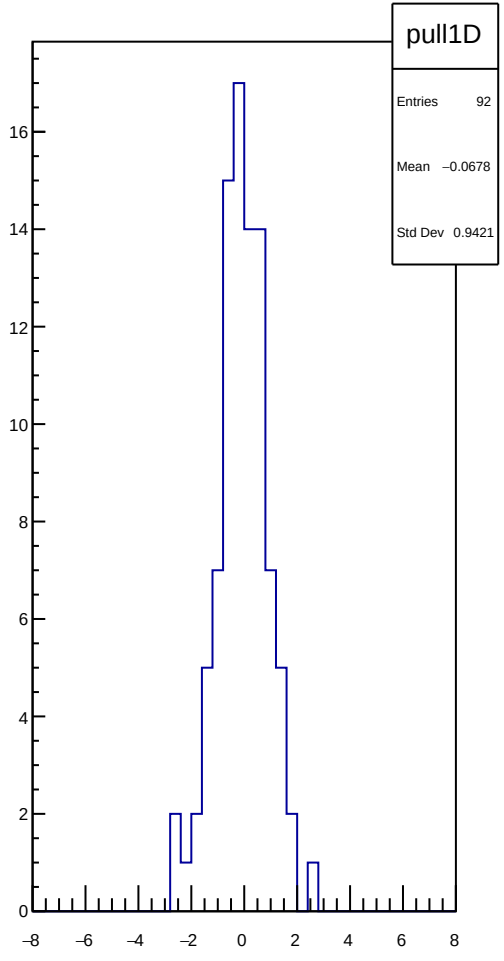

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.006e+04 / 91
p0 737.2 ± 0.5553
1050
1000
950
900
850
800
750
700
650
600

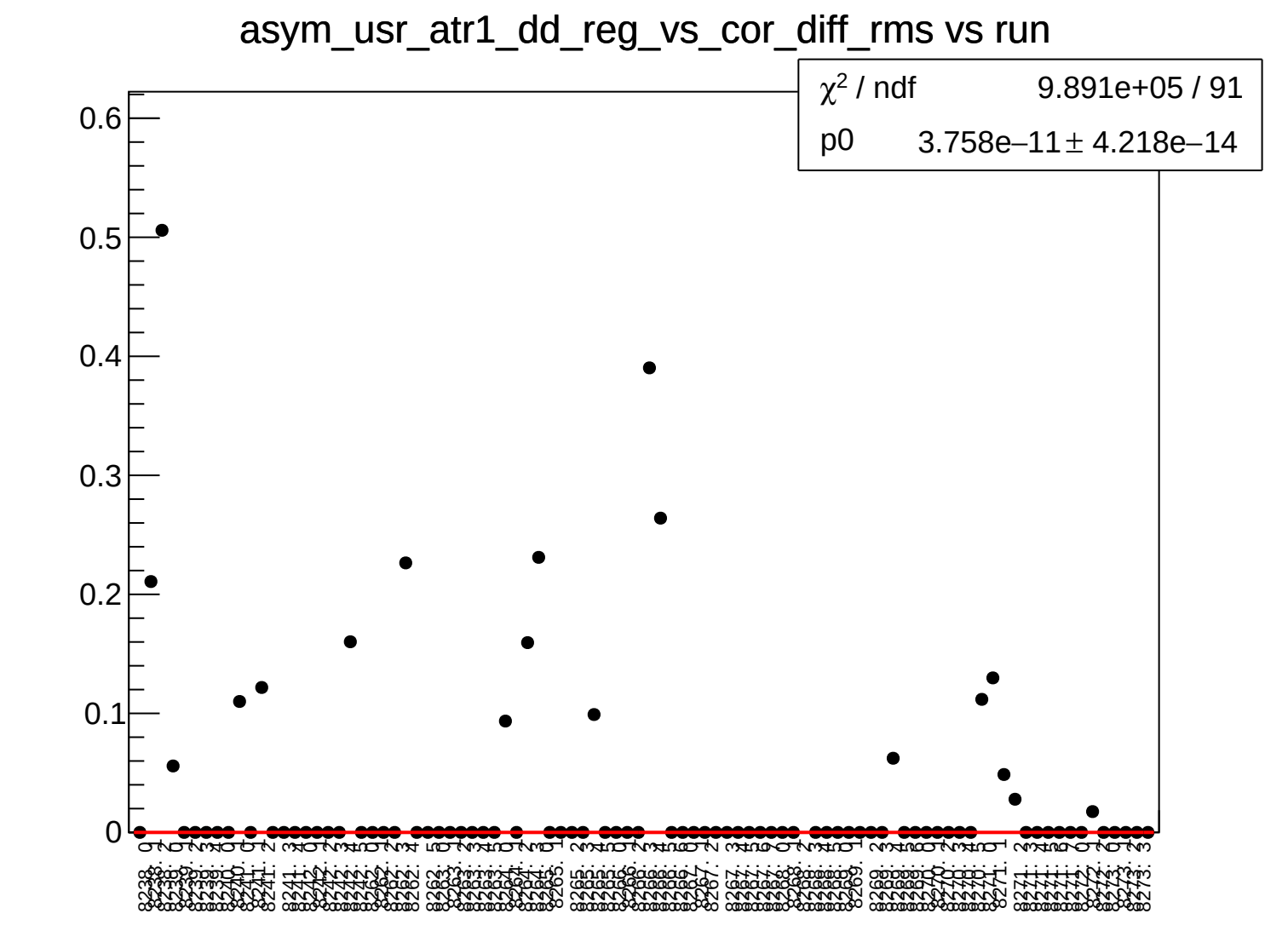

asym_usr_atr1_dd_mean vs run
χ² / ndf 102.2 / 91
p0 −3121 ± 1614
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −114.7
Std Dev 0
2
1
0
−1
−2

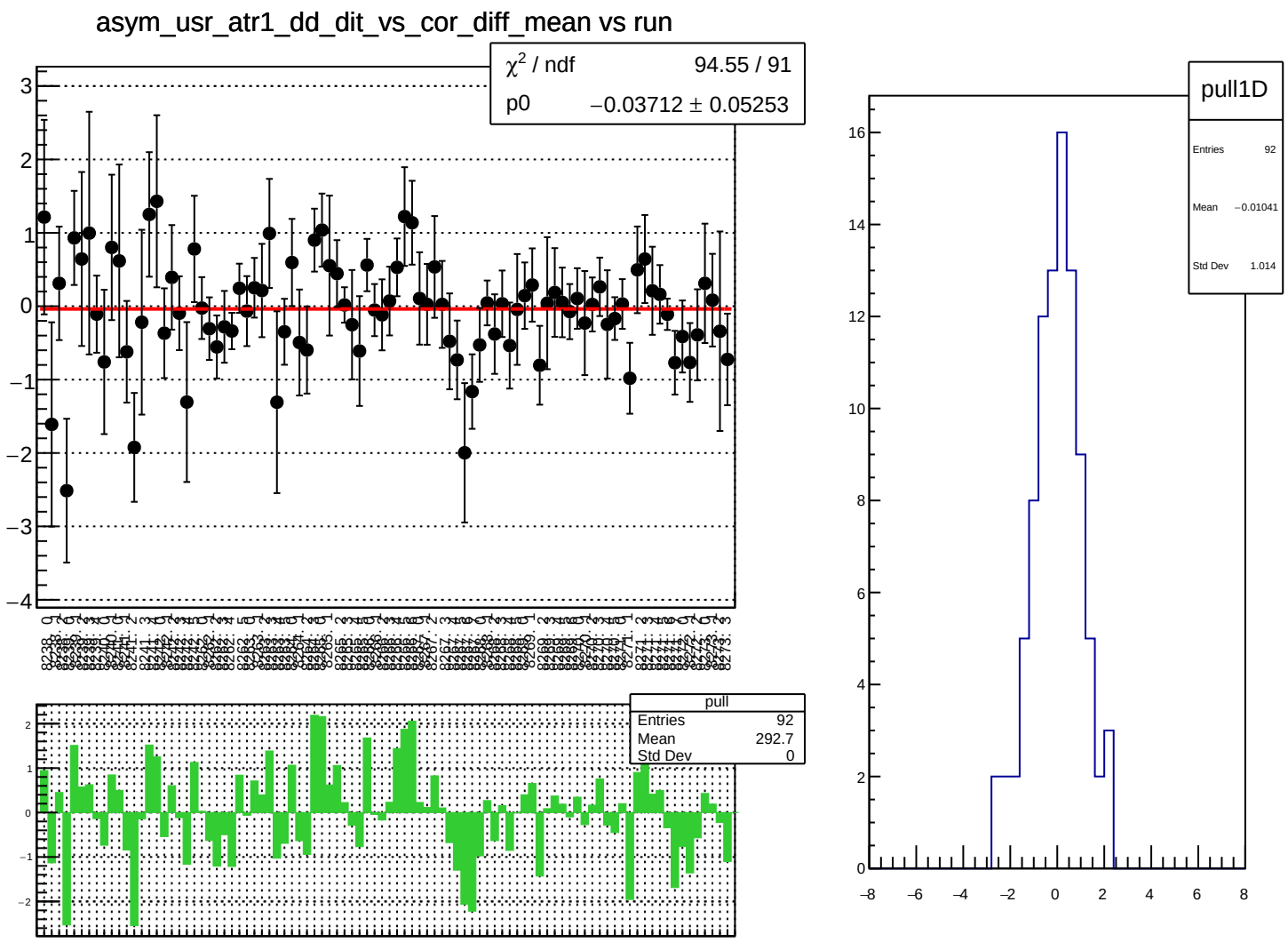

pull1D
Entries 92
Mean −0.01349
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

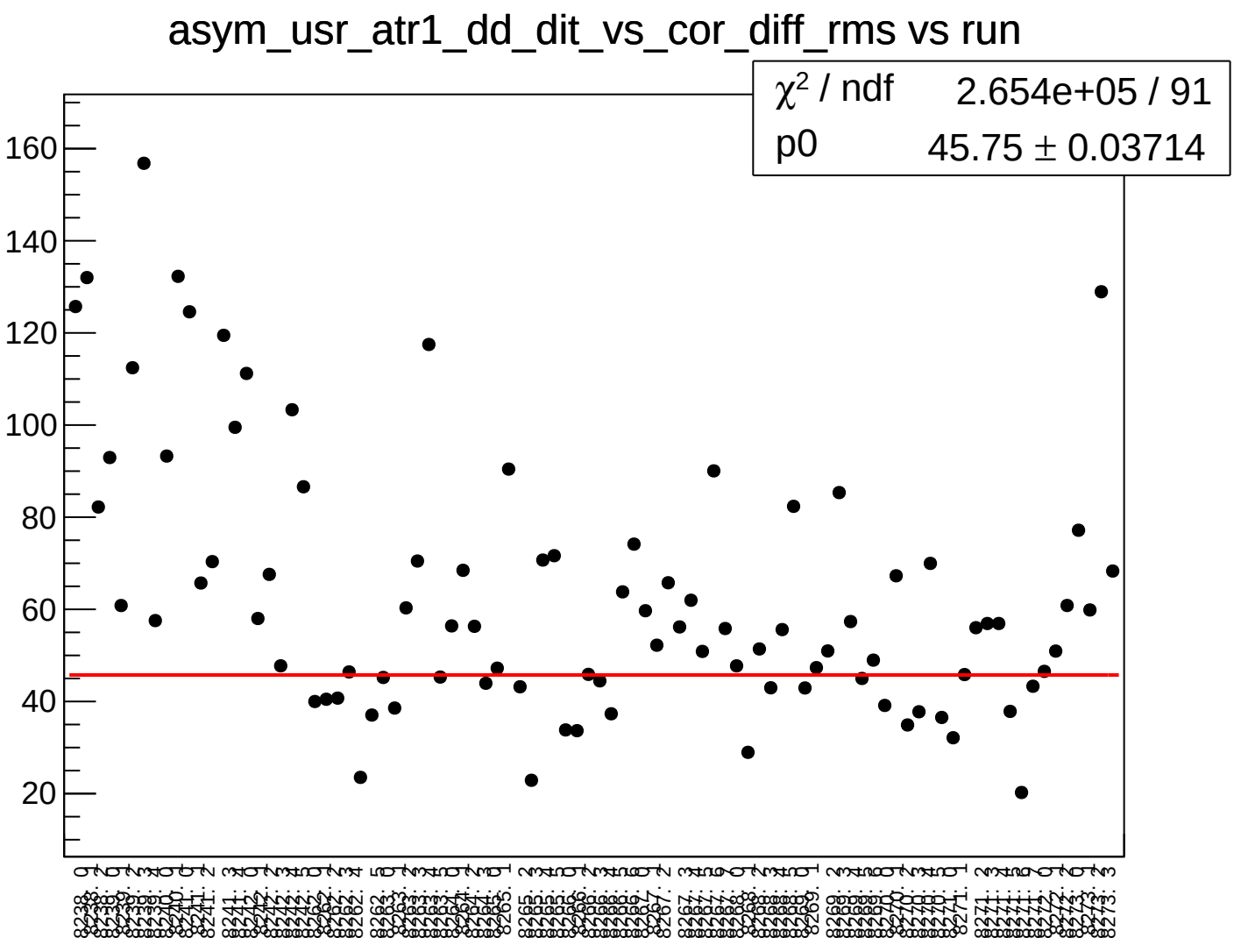

asym_usr_atr1_dd_rms vs run
χ² / ndf 1428 / 91
p0 1523 ± 1.141
1700
1650
1600
1550
1500
1450

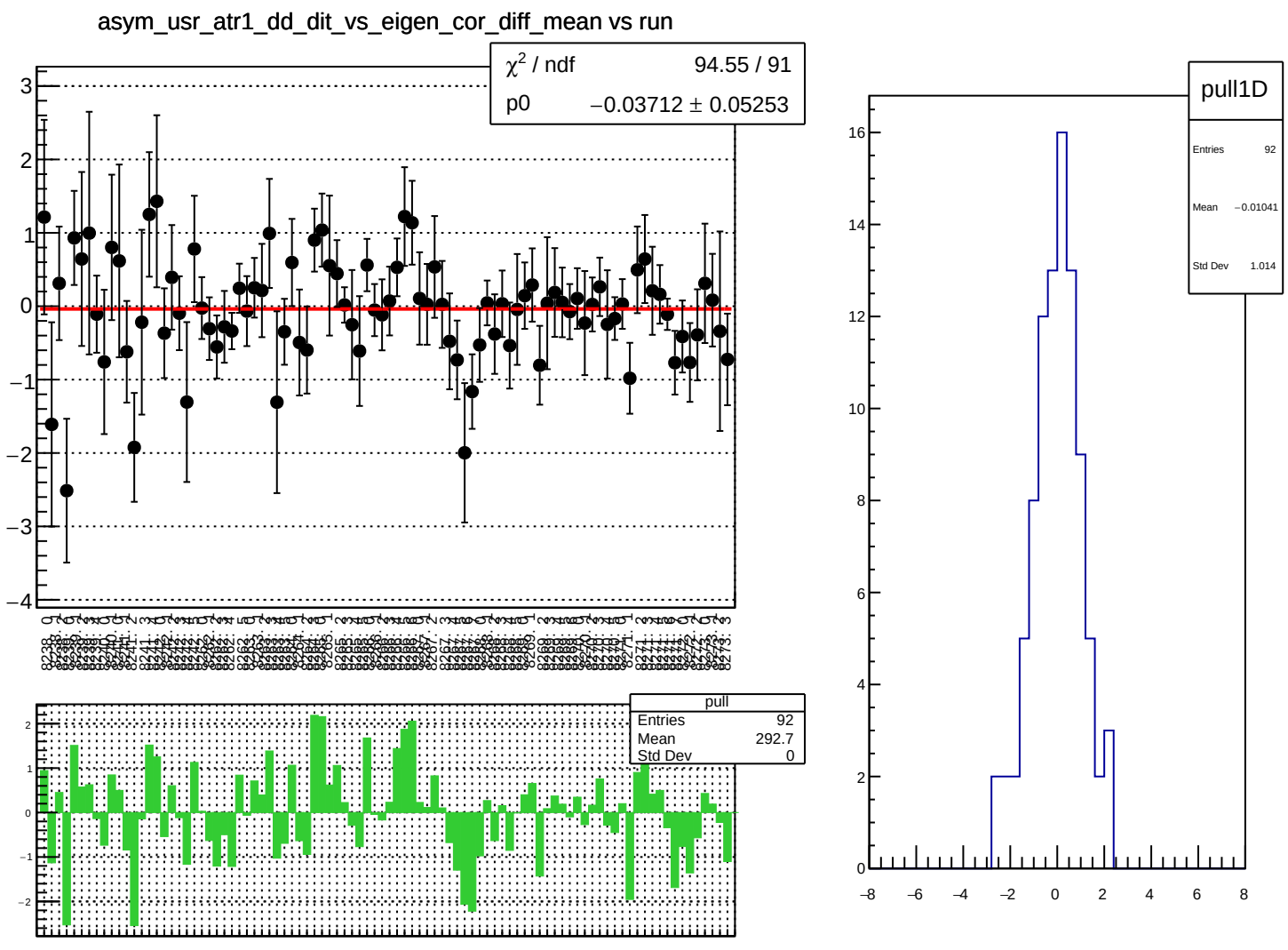

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.08 / 91
p0 −4.263e−14 ± 5.965e−14
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 92
Mean 16.98
Std Dev 27.8
3
2
1
0
−1
−2

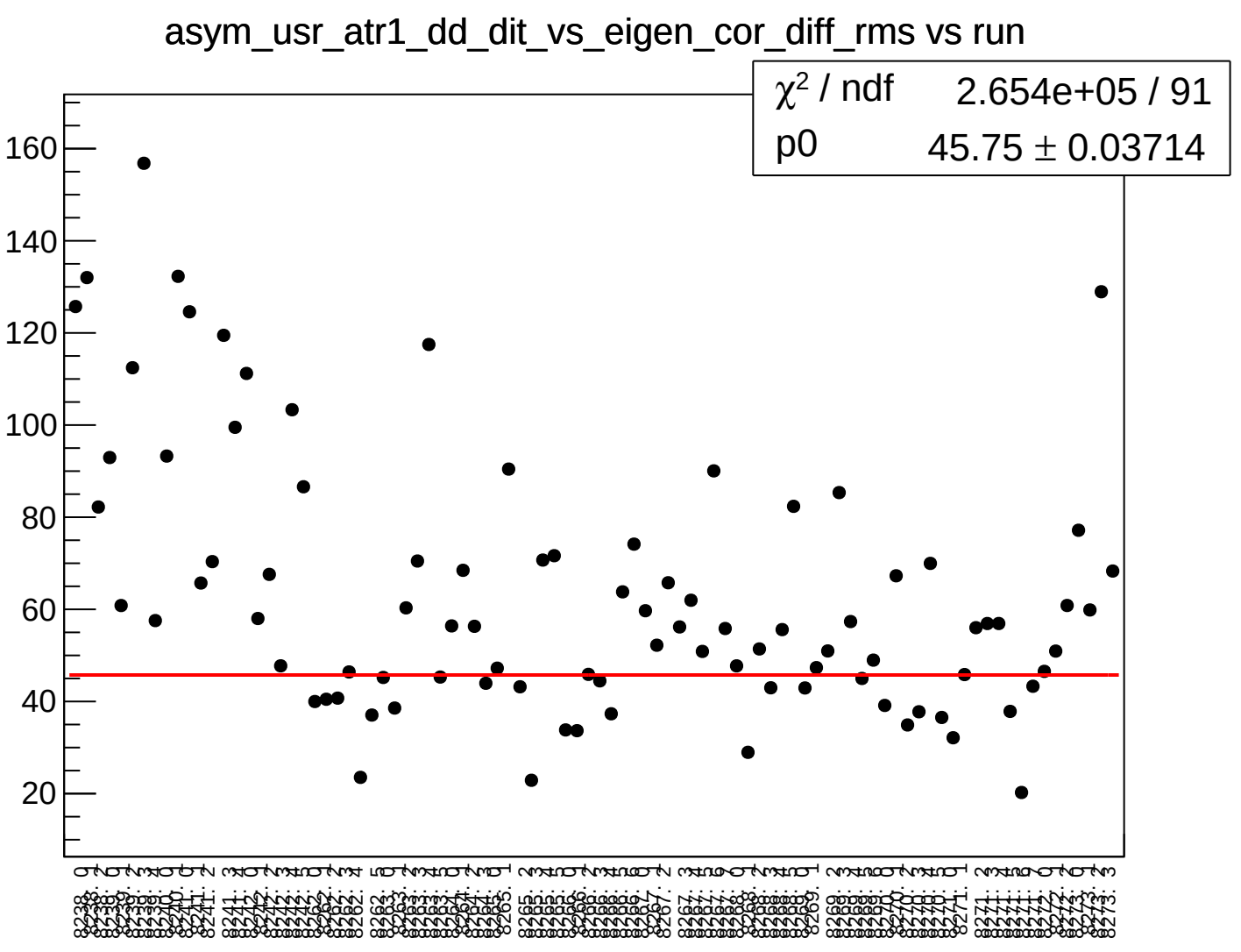

pull1D
Entries 92
Mean −0.0678
Std Dev 0.9421
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

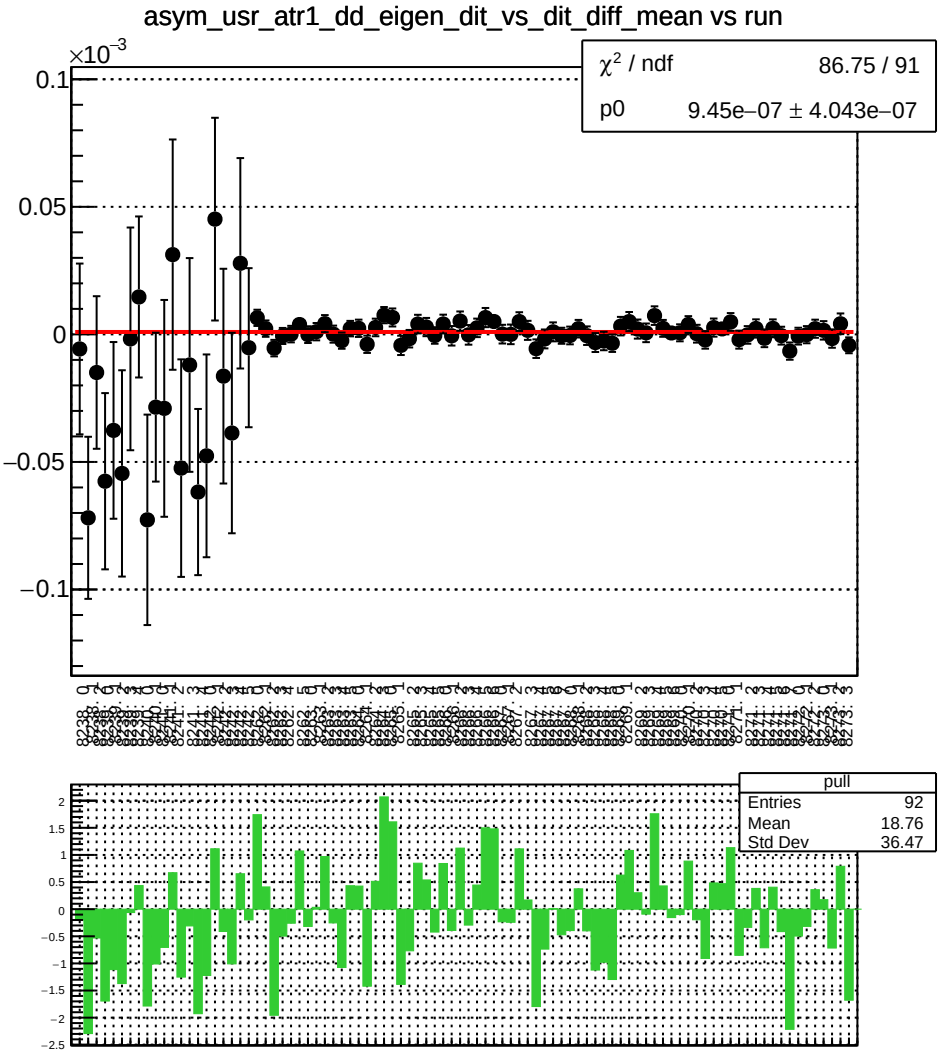

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.891e+05 / 91
p0 3.758e−11 ± 4.218e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

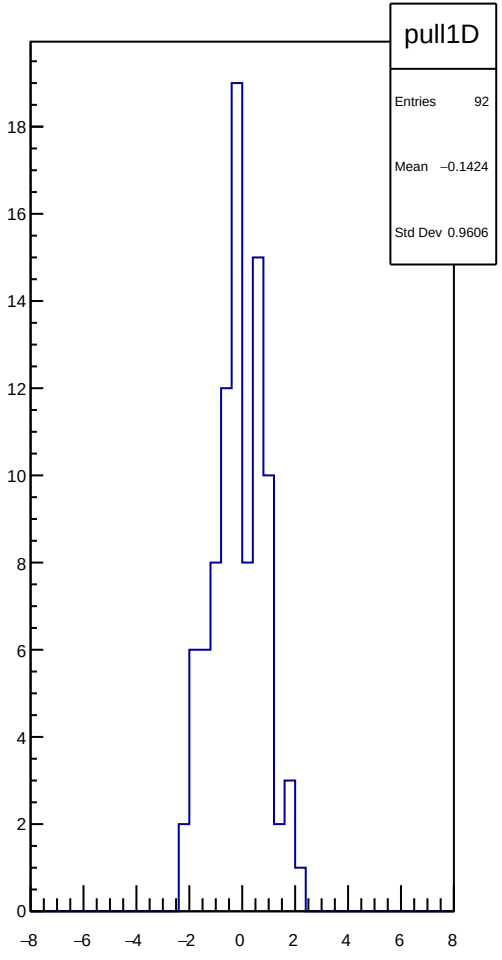

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.55 / 91
p0 −0.03712 ± 0.05253
pull
Entries 92
Mean 292.7
Std Dev 0
pull1D
Entries 92
Mean −0.01041
Std Dev 1.014

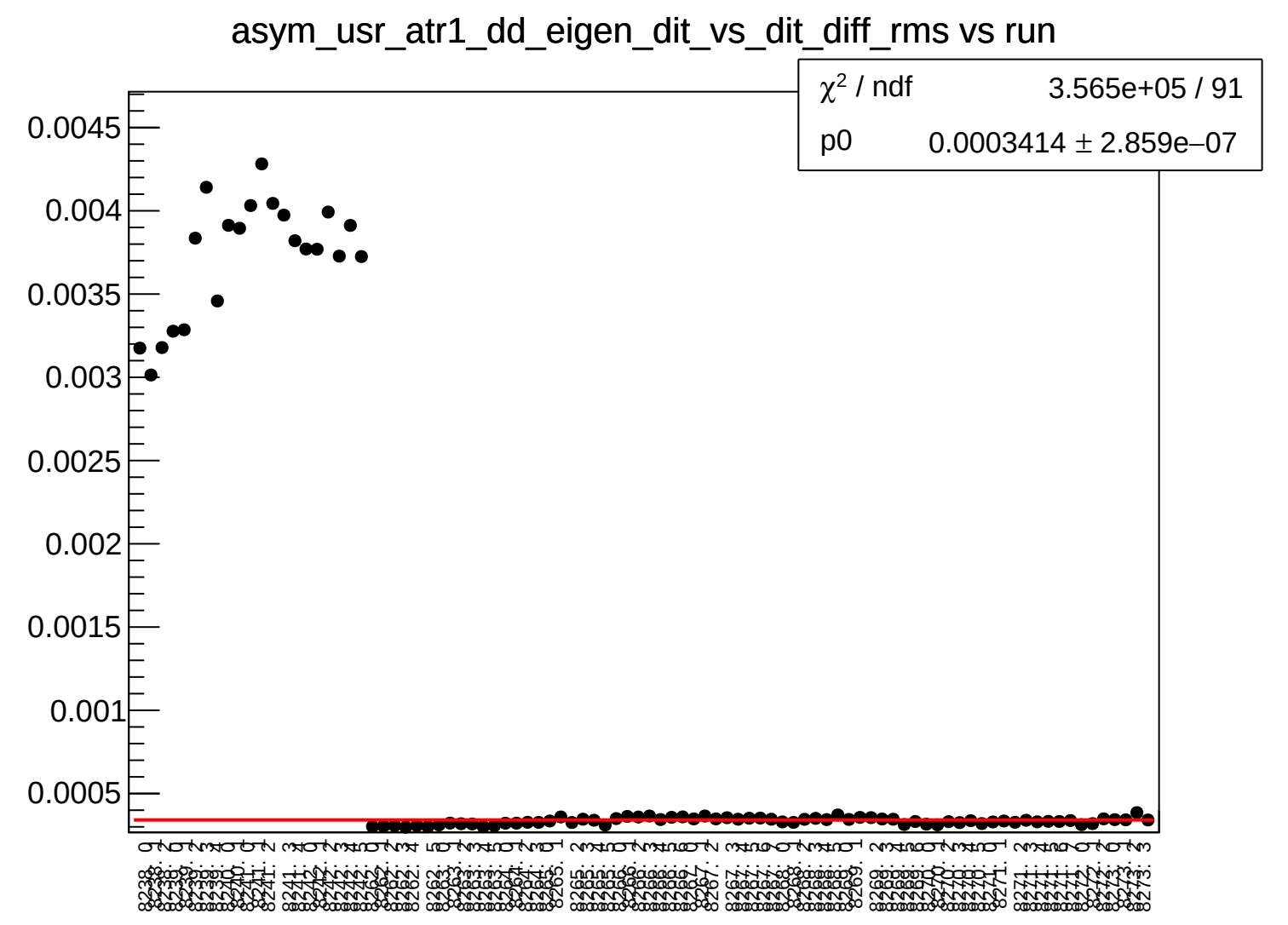

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.654e+05 / 91
p0 45.75 ± 0.03714
160
140
120
100
80
60
40
20

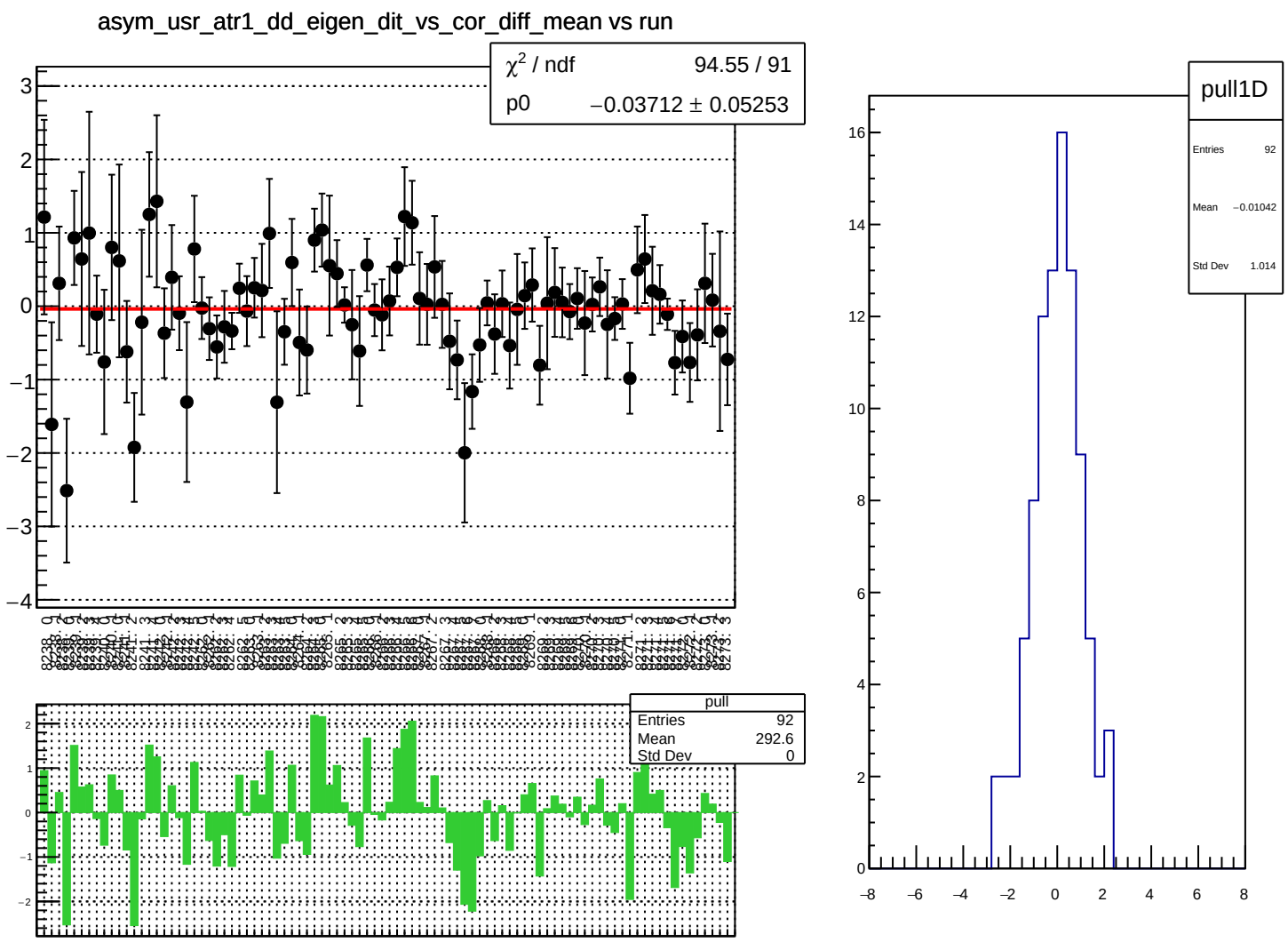

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.55 / 91
p0 −0.03712 ± 0.05253
pull
Entries 92
Mean 292.7
Std Dev 0
pull1D
Entries 92
Mean −0.01041
Std Dev 1.014

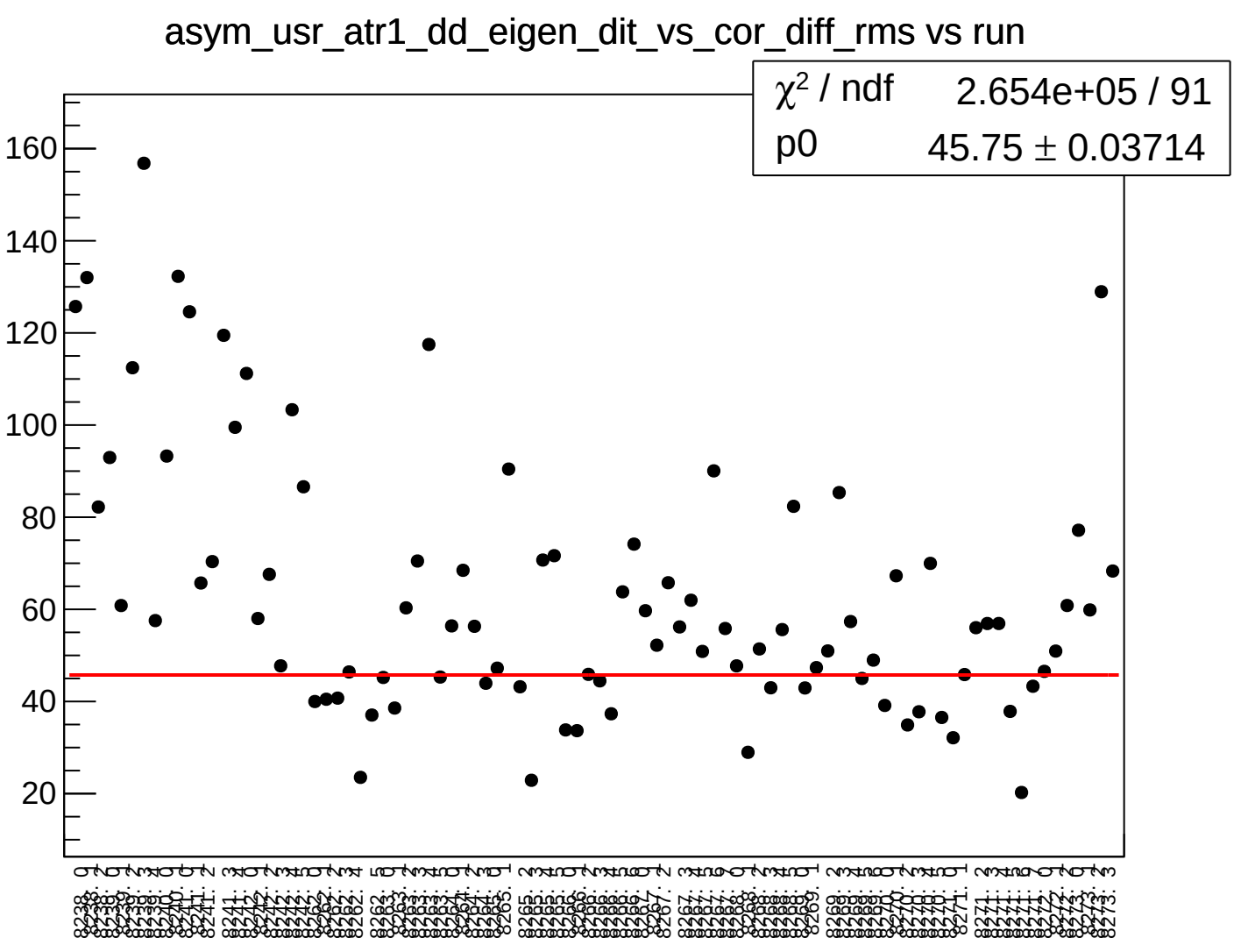

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.654e+05 / 91
p0 45.75 ± 0.03714
160
140
120
100
80
60
40
20

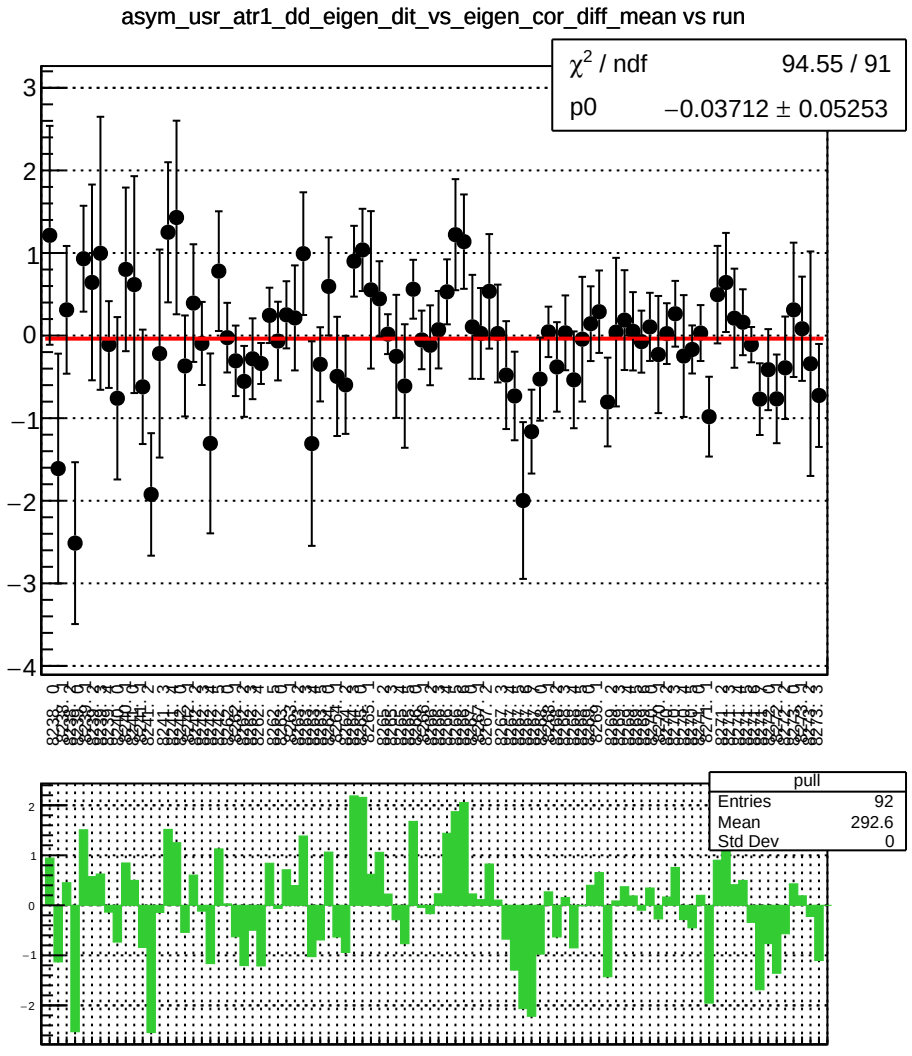

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 86.75 / 91
p0 9.45e−07 ± 4.043e−07
pull
Entries 92
Mean 18.76
Std Dev 36.47

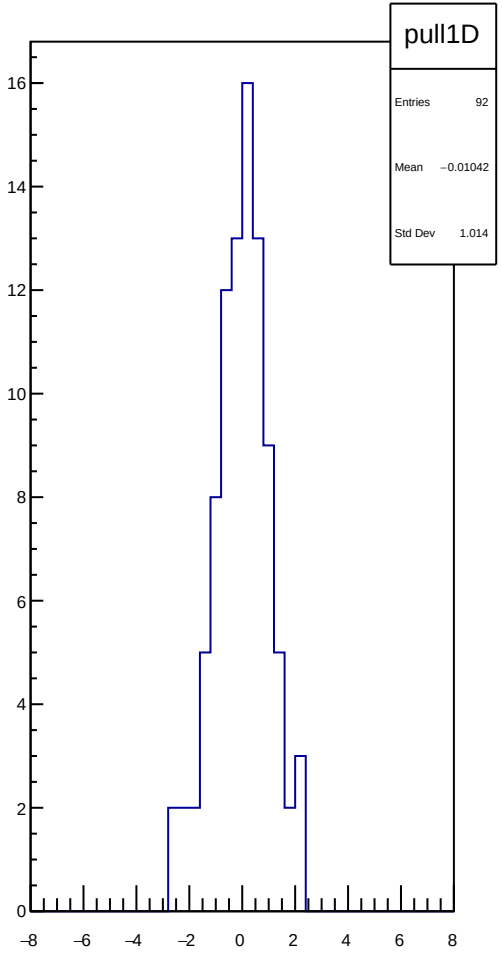

pull1D
Entries 92
Mean −0.1424
Std Dev 0.9606

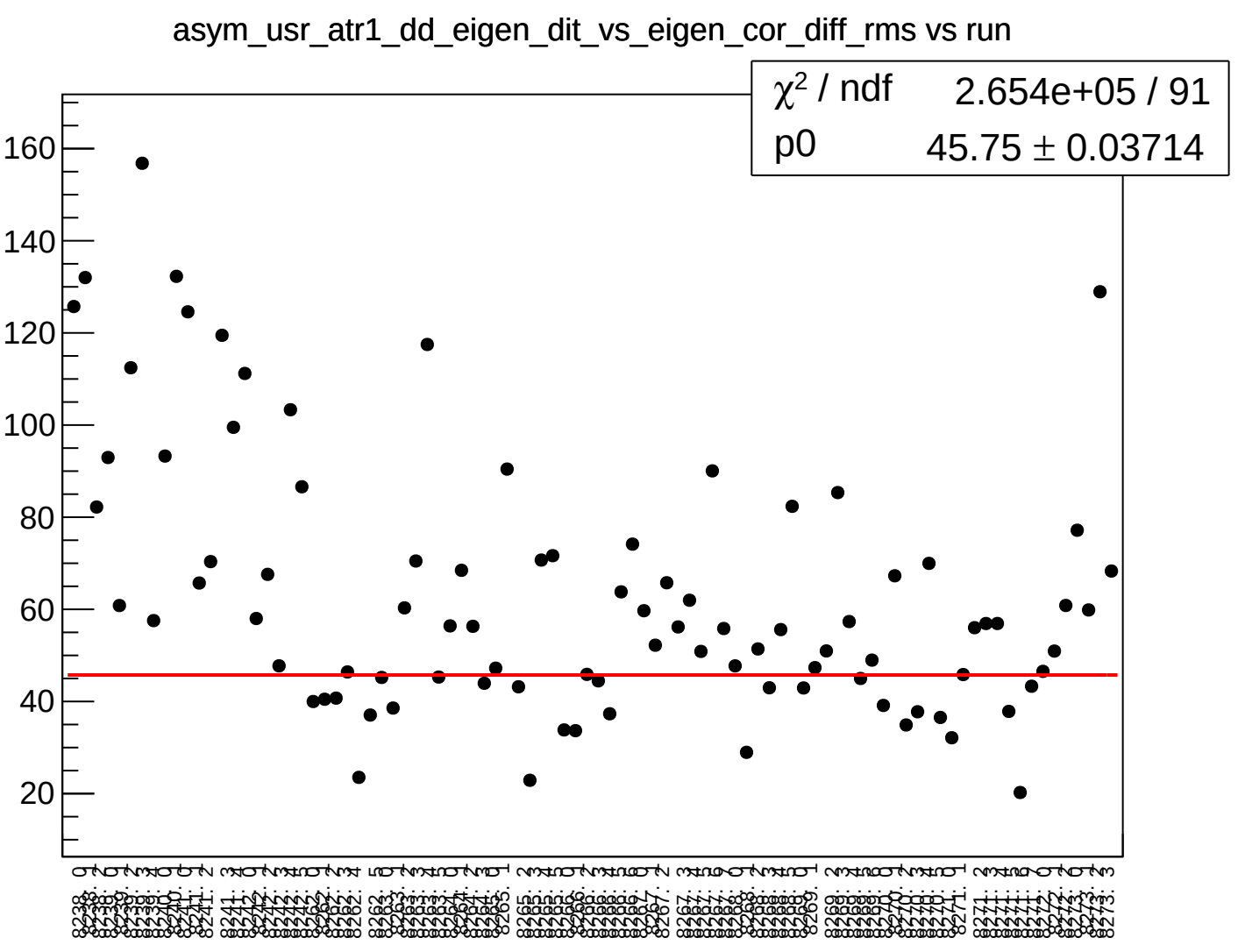

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.565e+05 / 91
p0 0.0003414 ± 2.859e−07
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

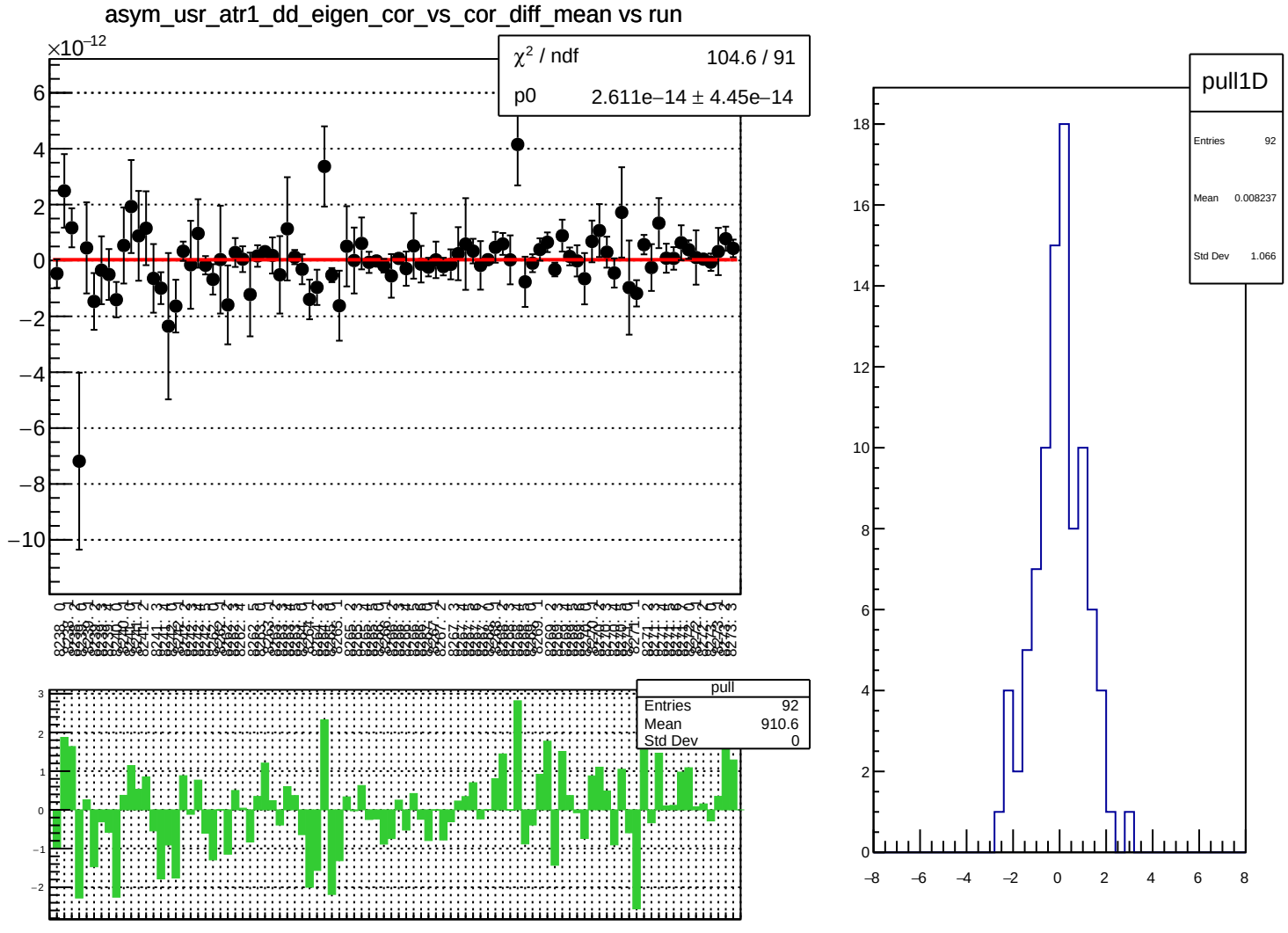

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.55 / 91
p0 −0.03712 ± 0.05253
pull
Entries 92
Mean 292.6
Std Dev 0
pull1D
Entries 92
Mean −0.01042
Std Dev 1.014

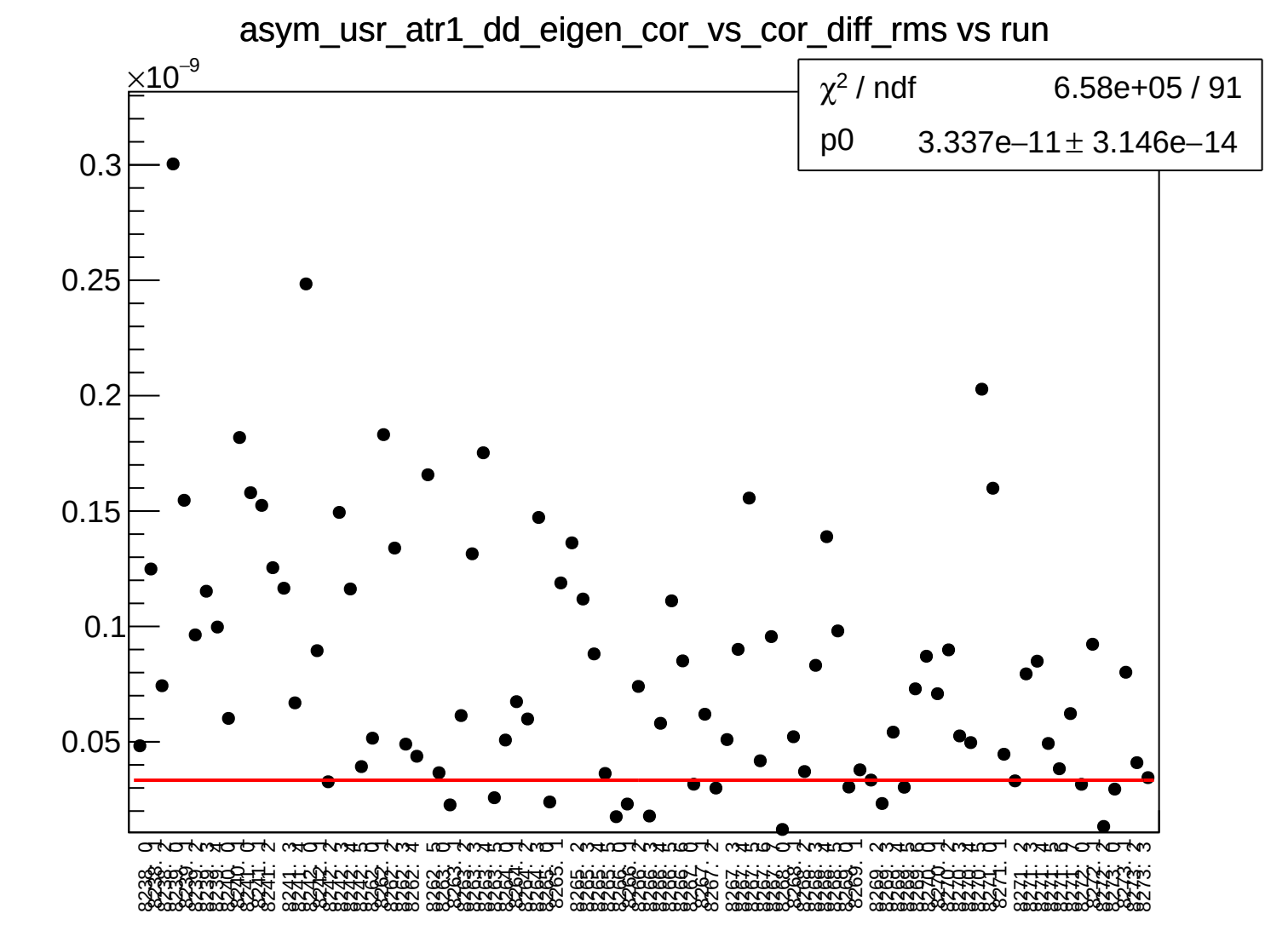

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.654e+05 / 91
p0 45.75 ± 0.03714
160
140
120
100
80
60
40
20

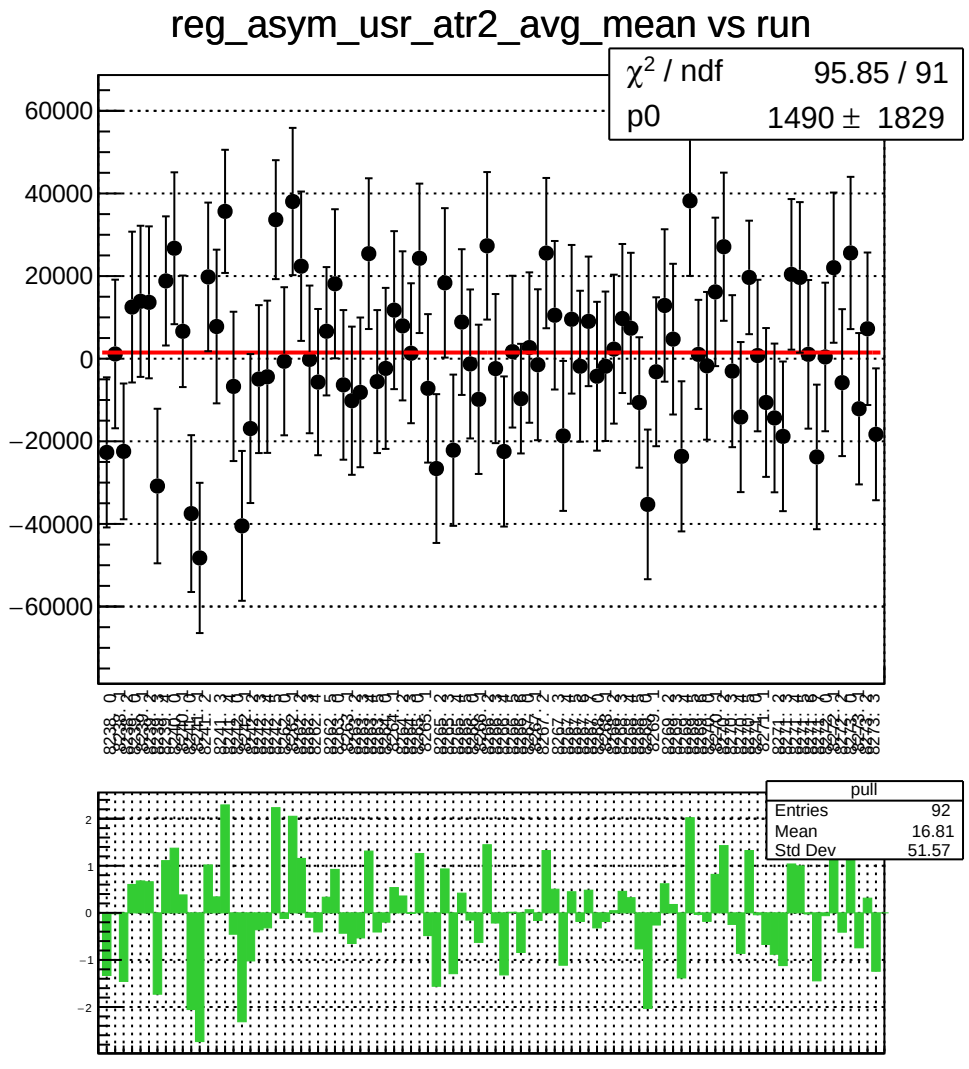

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.55 / 91
p0 −0.03712 ± 0.05253
pull
Entries 92
Mean 292.6
Std Dev 0

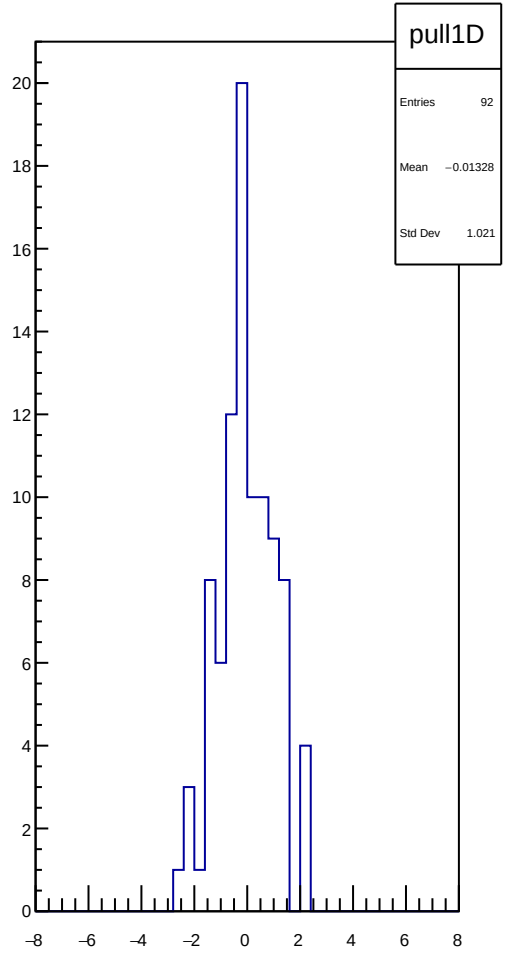

pull1D
Entries 92
Mean −0.01042
Std Dev 1.014

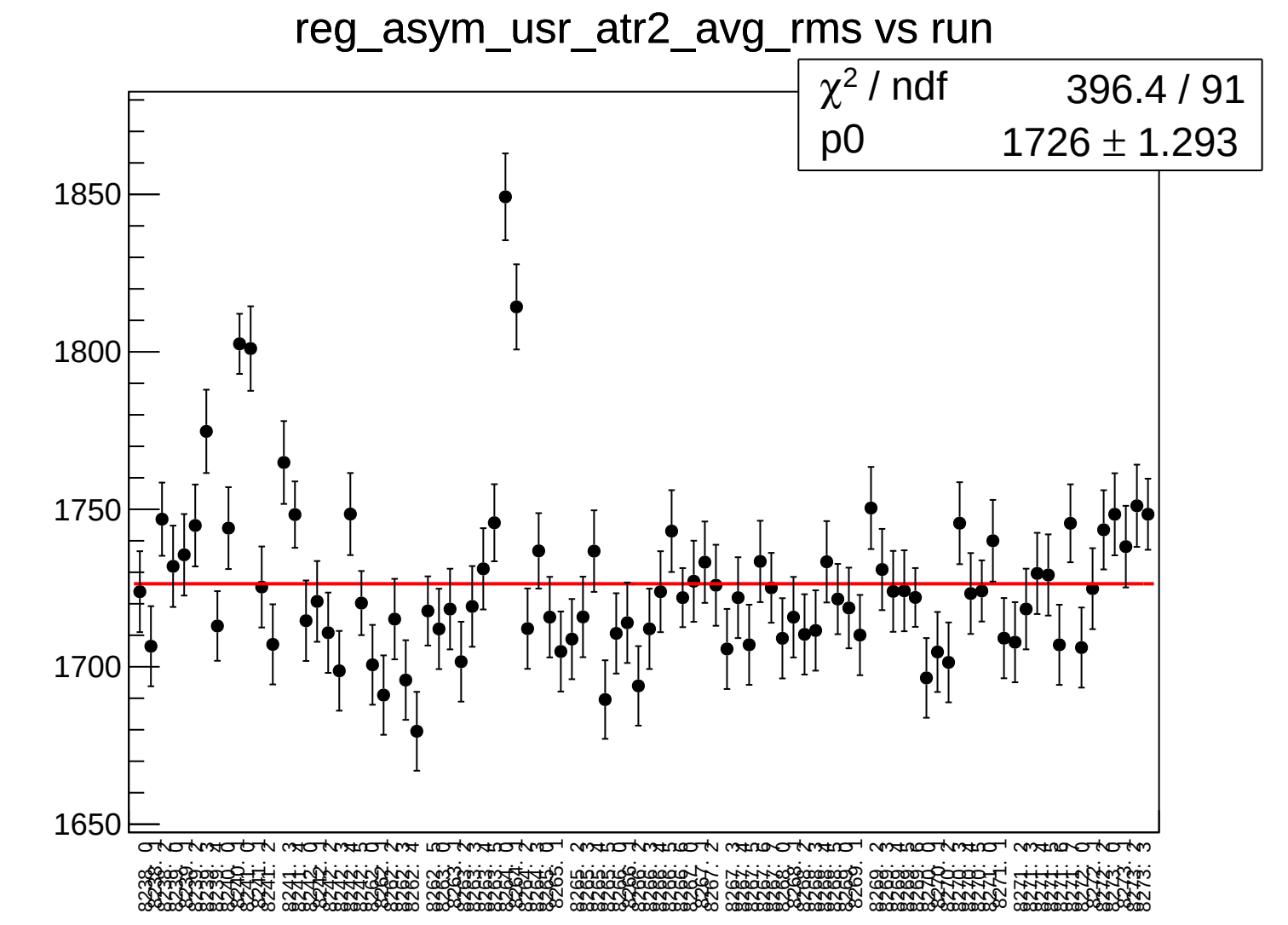

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.654e+05 / 91
p0 45.75 ± 0.03714
160
140
120
100
80
60
40
20

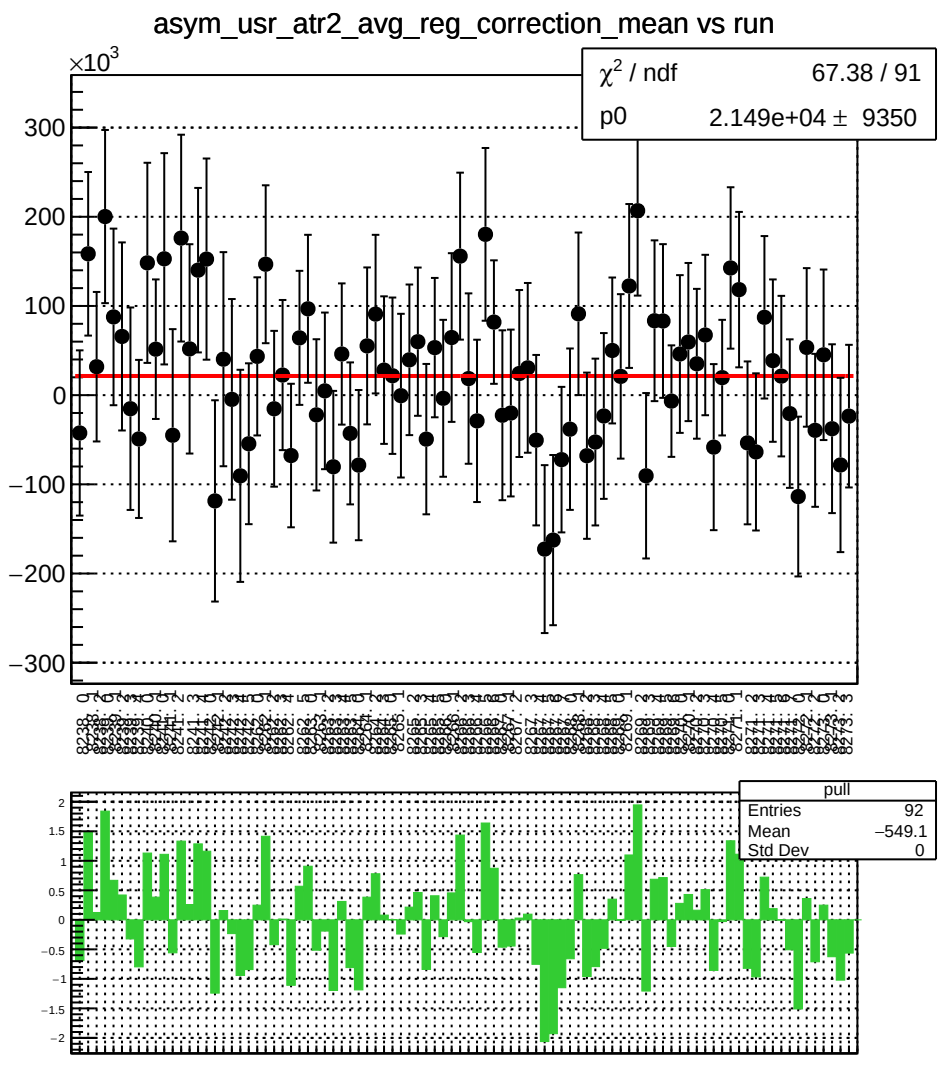

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.6 / 91
p0 2.611e−14 ± 4.45e−14
pull
Entries 92
Mean 910.6
Std Dev 0
pull1D
Entries 92
Mean 0.008237
Std Dev 1.066

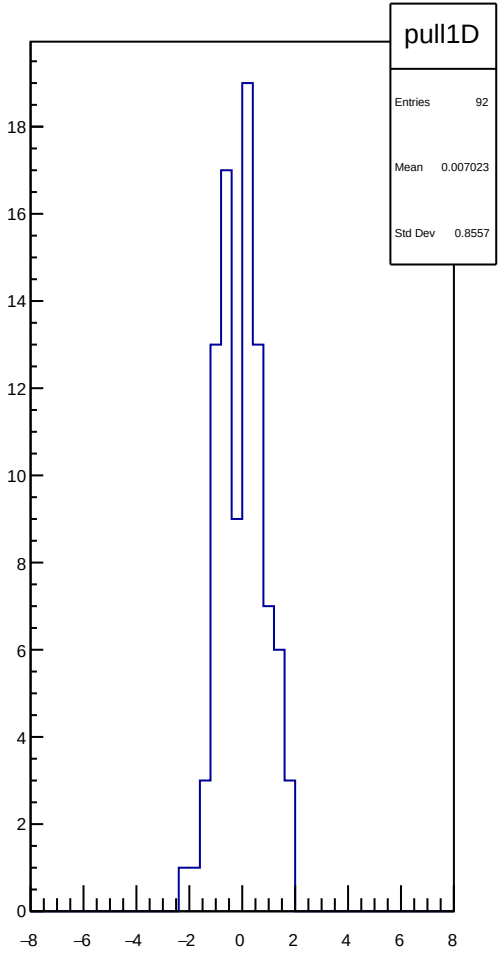

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.58e+05 / 91
p0 3.337e−11 ± 3.146e−14
0.3
0.25
0.2
0.15
0.1
0.05

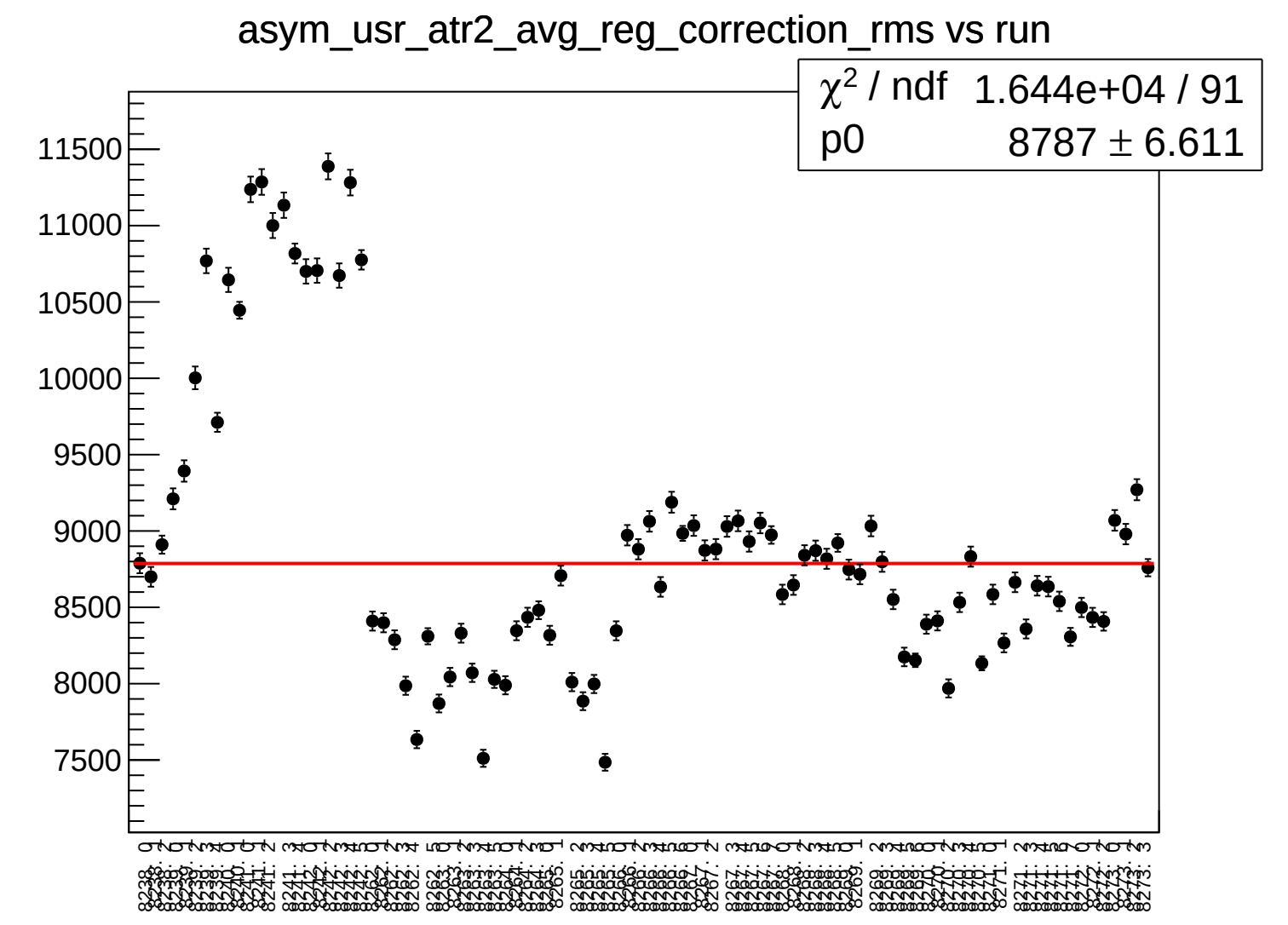

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 95.85 / 91
p0 1490 ± 1829
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 16.81
Std Dev 51.57
2
1
0
−1
−2

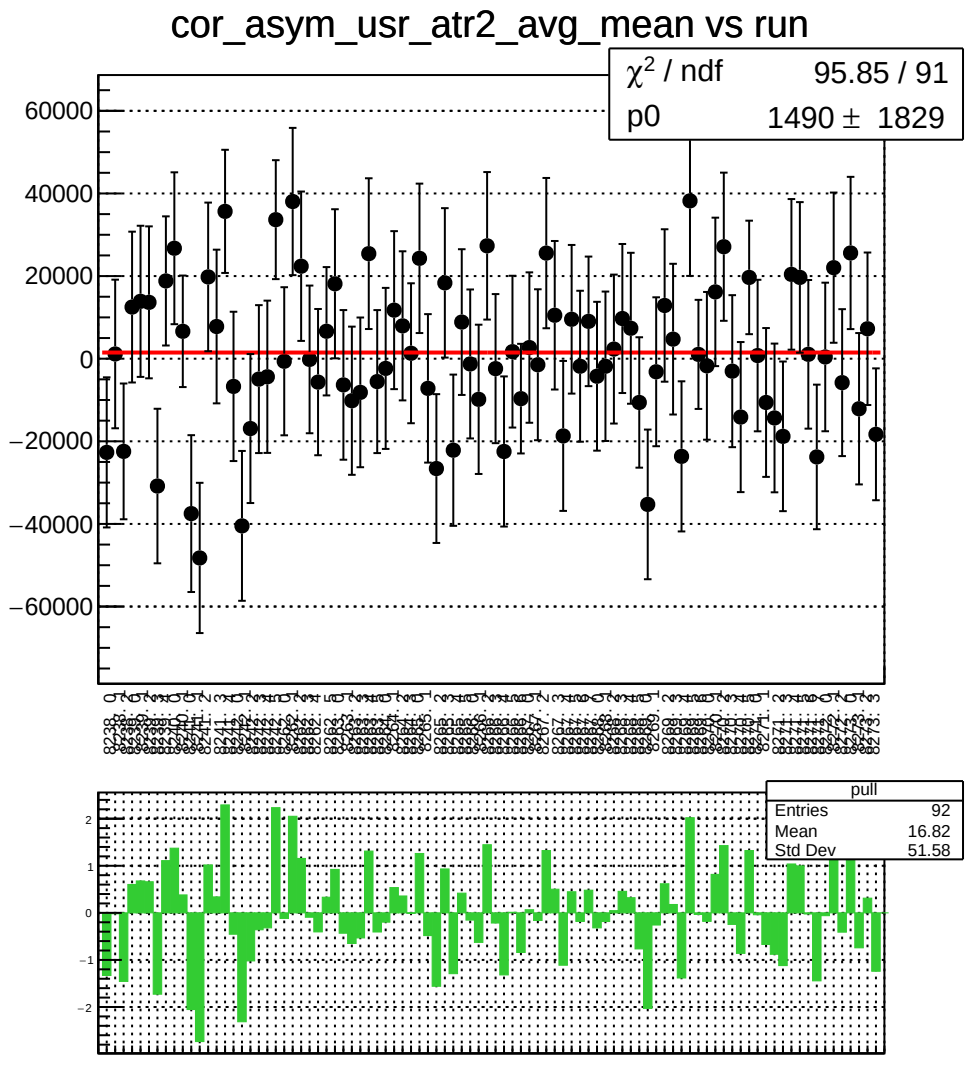

pull1D
Entries 92
Mean −0.01328
Std Dev 1.021
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

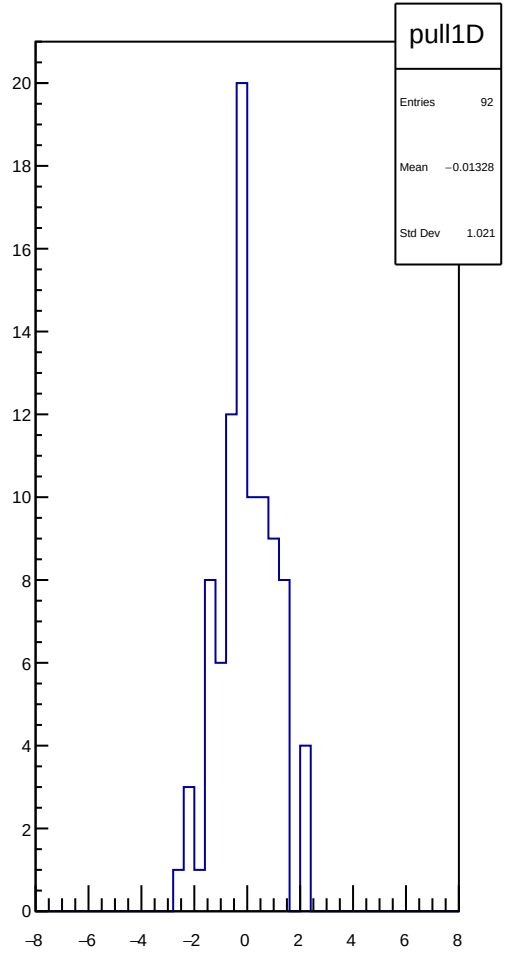

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 396.4 / 91
p0 1726 ± 1.293
1850
1800
1750
1700
1650

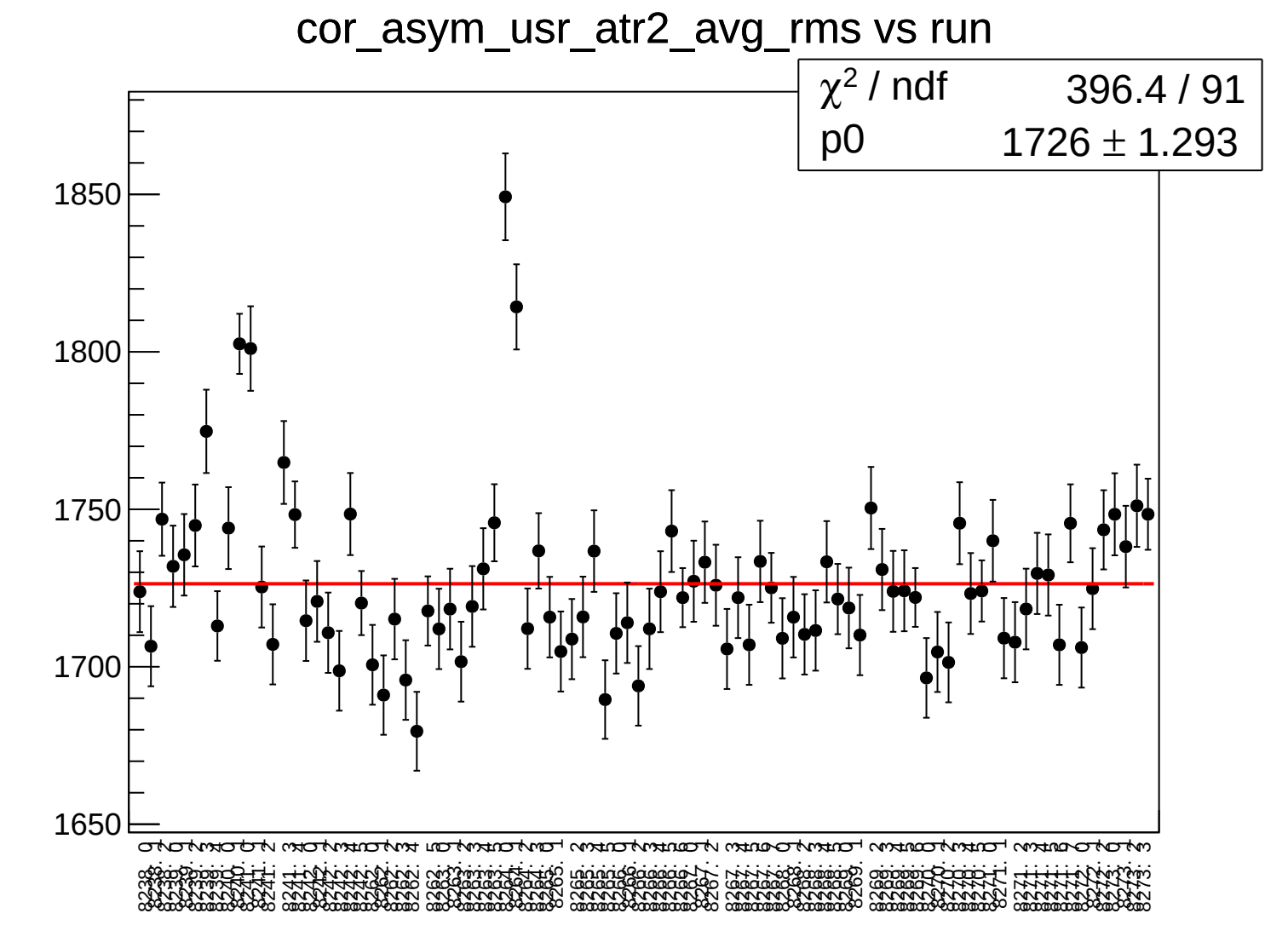

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 67.38 / 91
p0 2.149e+04 ± 9350
pull
Entries 92
Mean −549.1
Std Dev 0

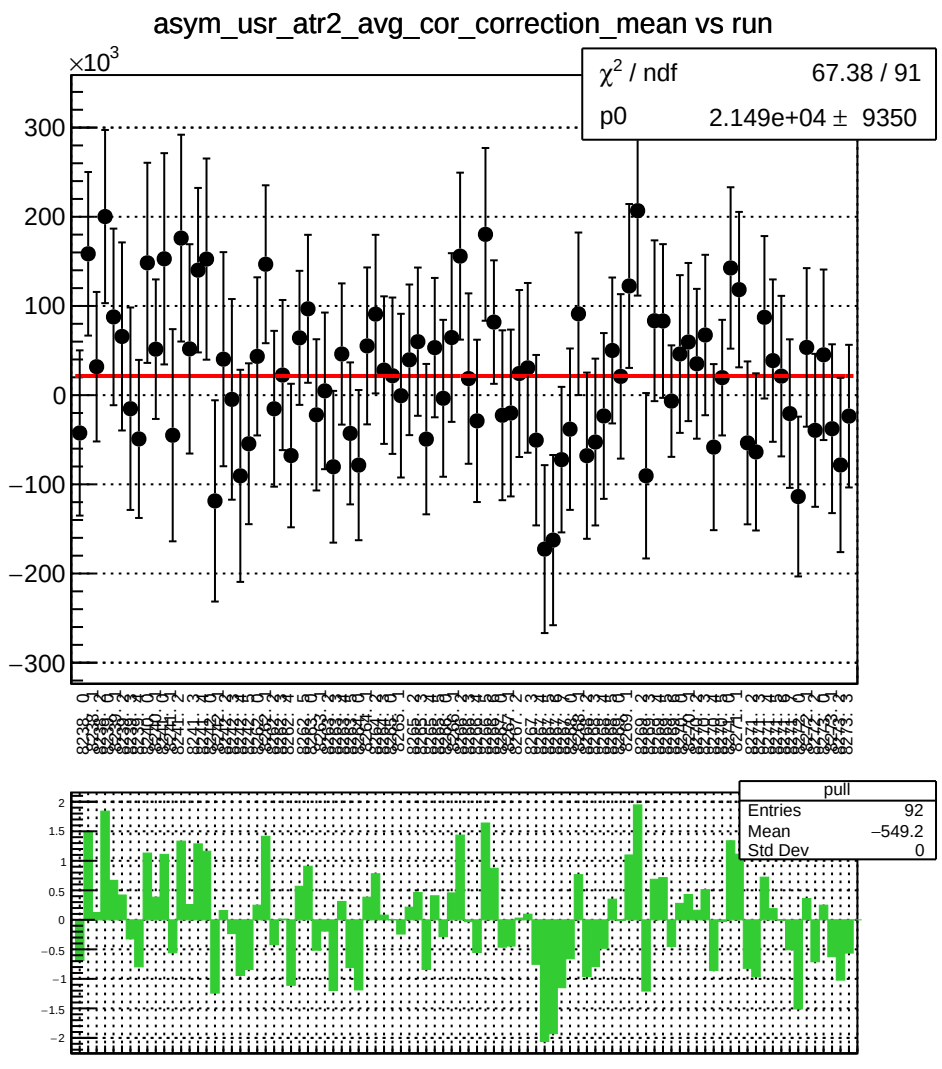

pull1D
Entries 92
Mean 0.007023
Std Dev 0.8557

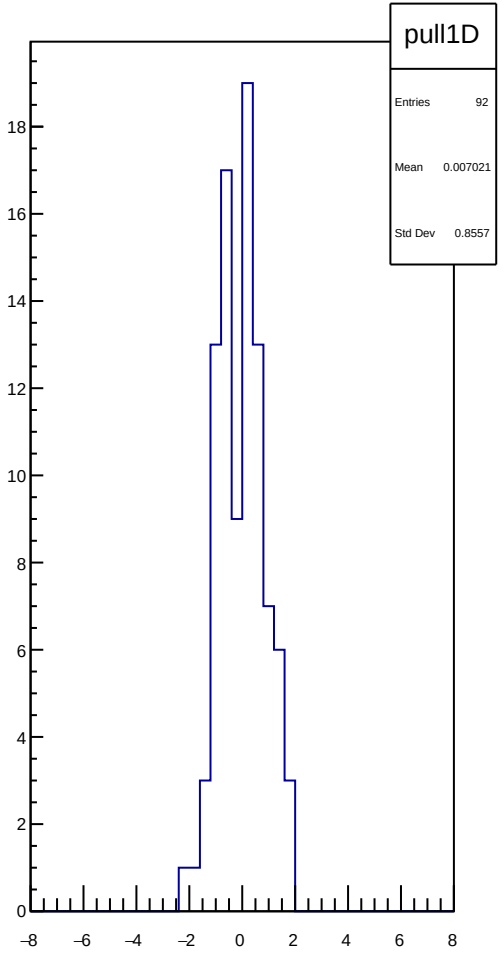

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 1.644e+04 / 91
p0 8787 ± 6.611
11500
11000
10500
10000
9500
9000
8500
8000
7500

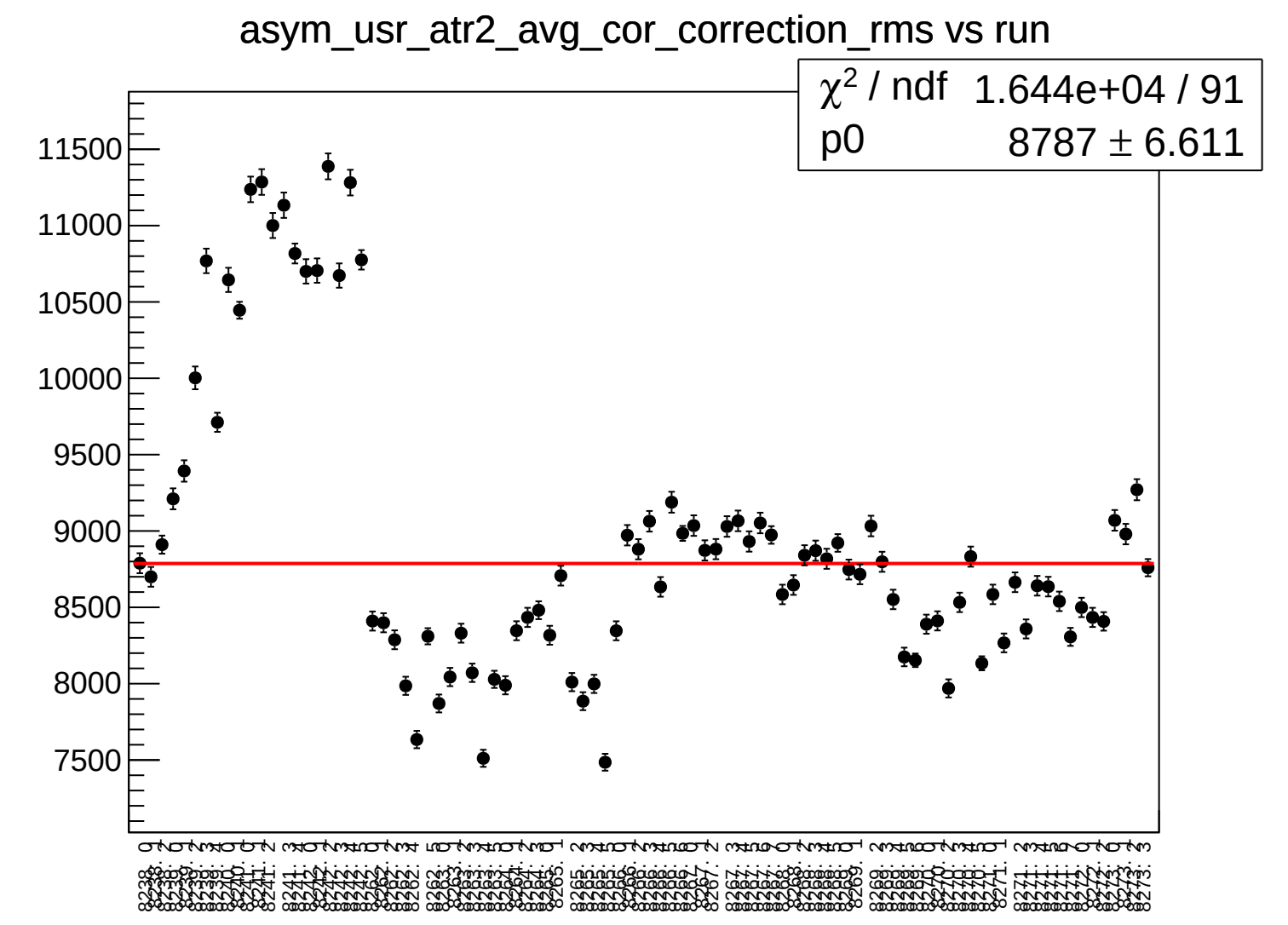

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 95.85 / 91
p0 1490 ± 1829
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 16.82
Std Dev 51.58
2
1
0
−1
−2

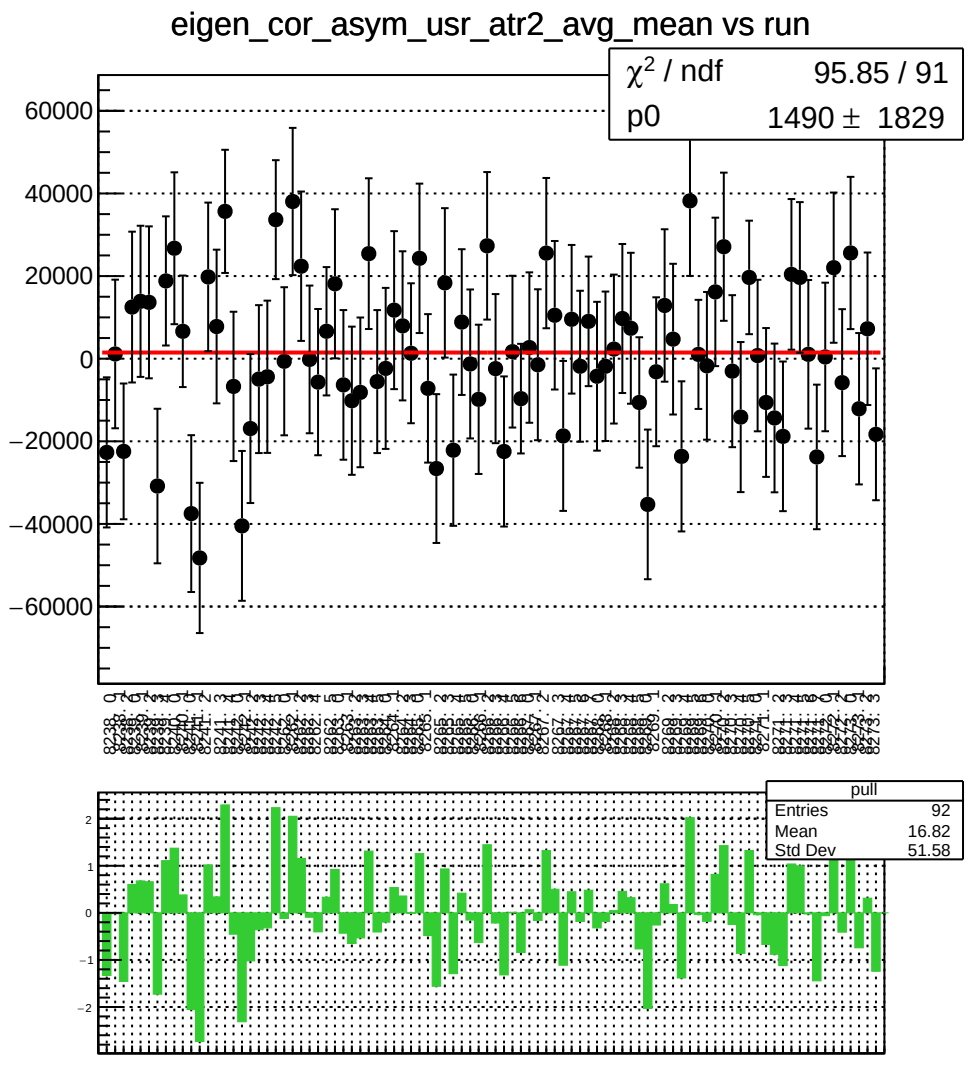

pull1D
Entries 92
Mean −0.01328
Std Dev 1.021
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

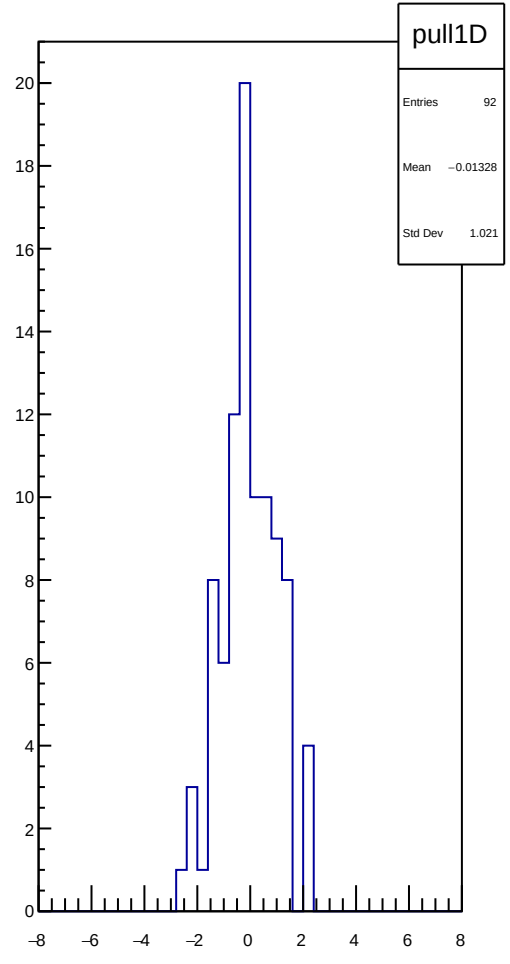

cor_asym_usr_atr2_avg_rms vs run
$\chi^2$ / ndf 396.4 / 91
p0 1726 ± 1.293
1850
1800
1750
1700
1650

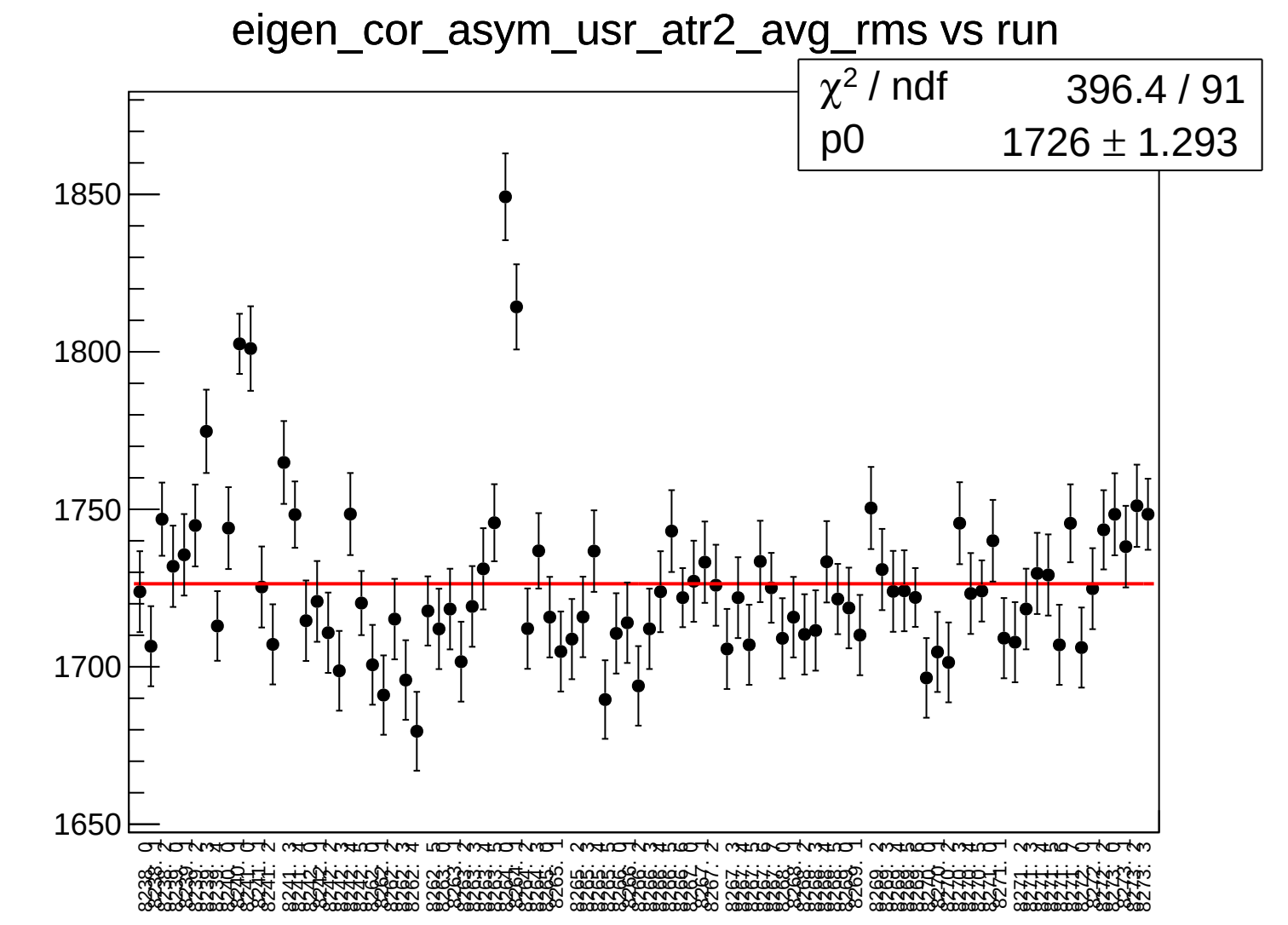

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 67.38 / 91
p0 2.149e+04 ± 9350
pull
Entries 92
Mean −549.2
Std Dev 0

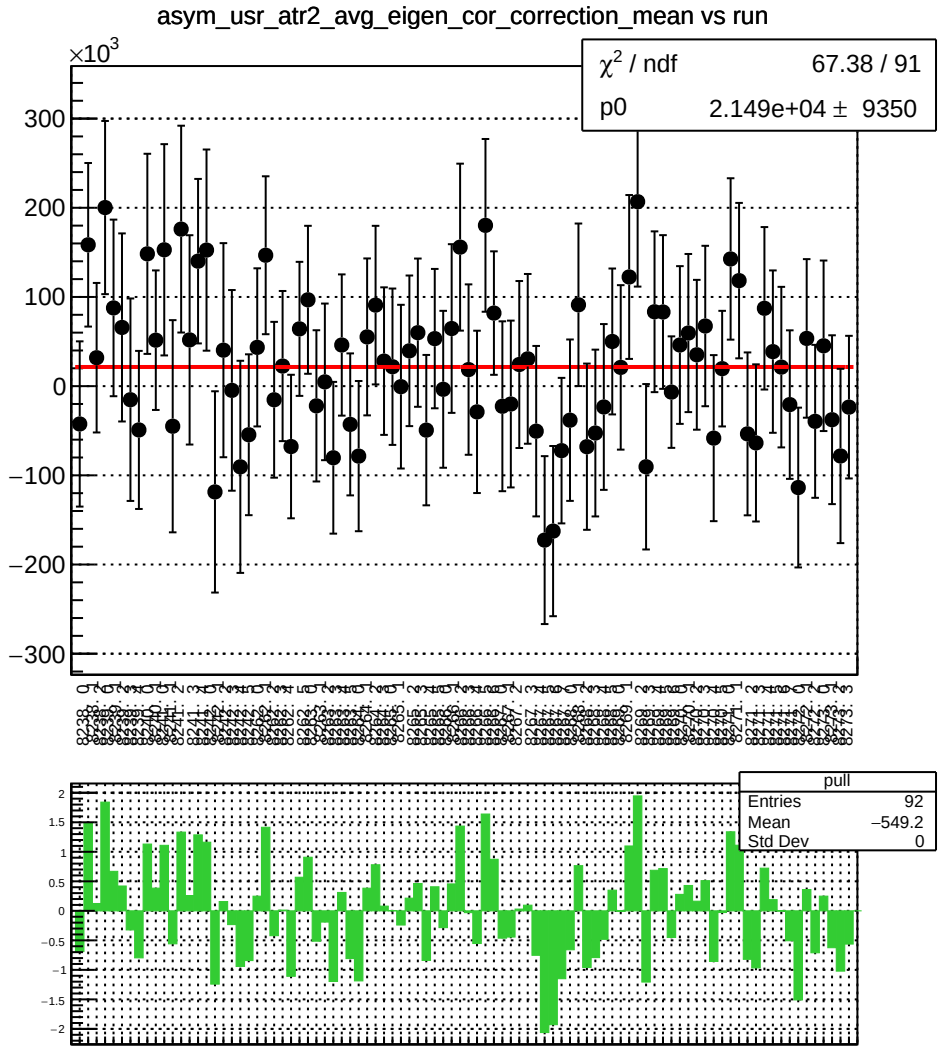

pull1D
Entries 92
Mean 0.007021
Std Dev 0.8557

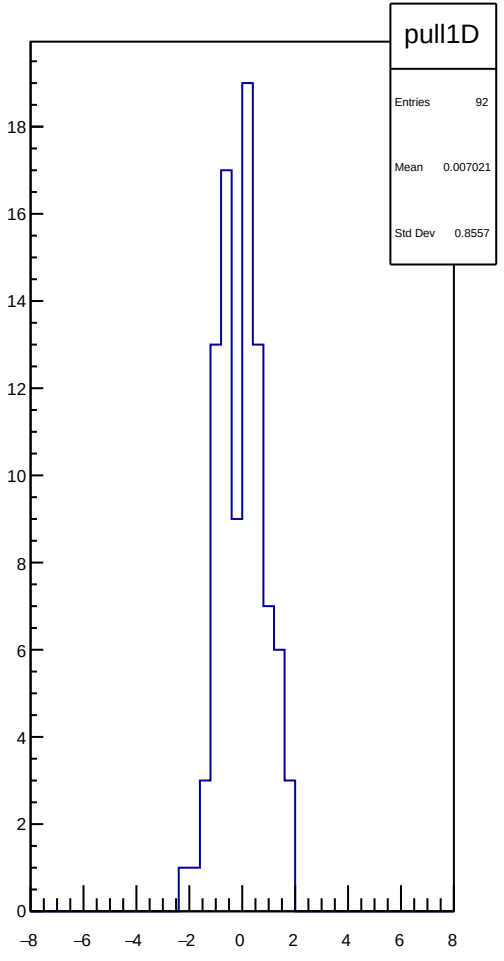

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 1.644e+04 / 91
p0 8787 ± 6.611
11500
11000
10500
10000
9500
9000
8500
8000
7500

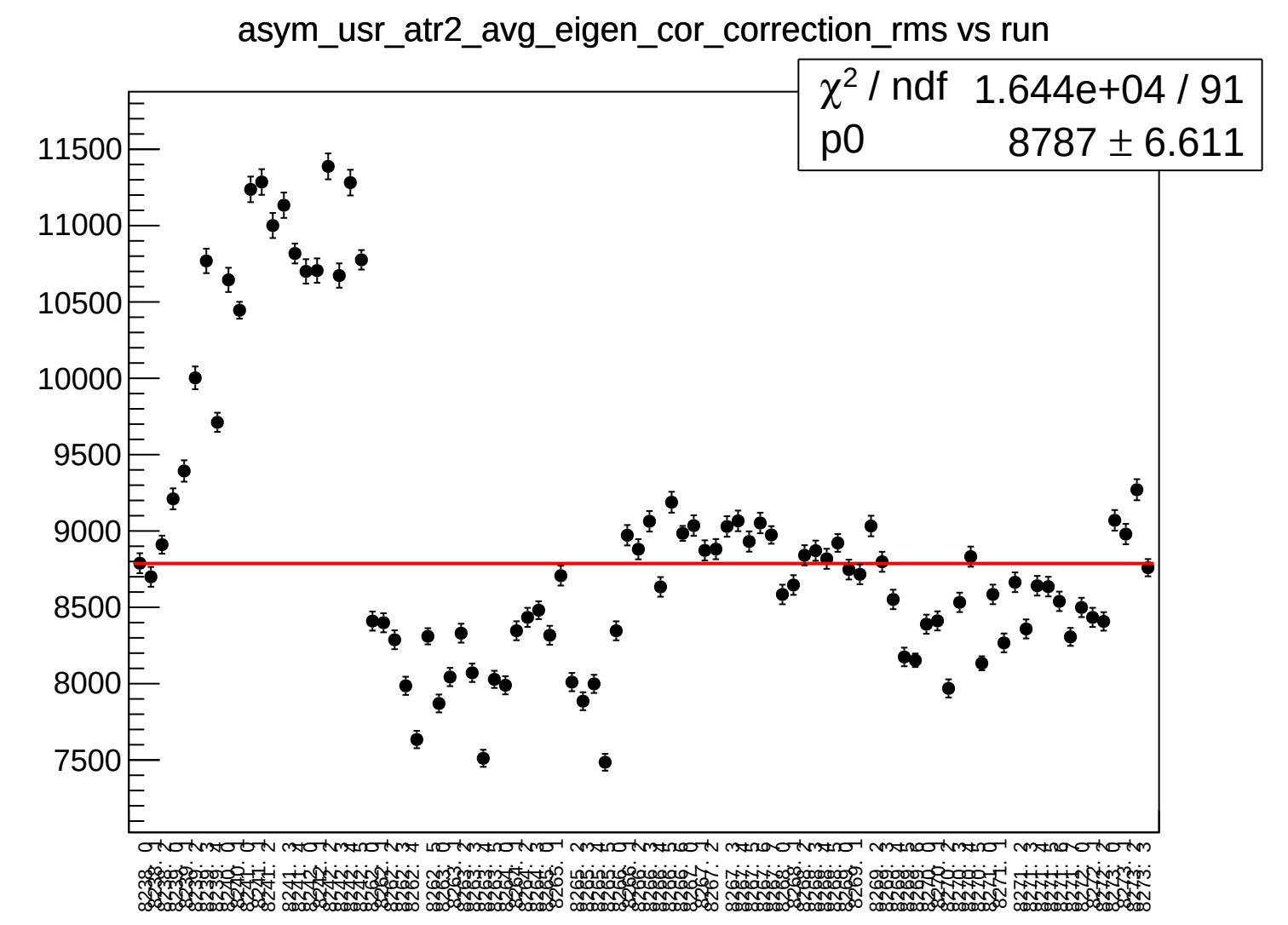

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 95.85 / 91
p0 1490 ± 1829
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 16.82
Std Dev 51.58
2
1
0
−1
−2

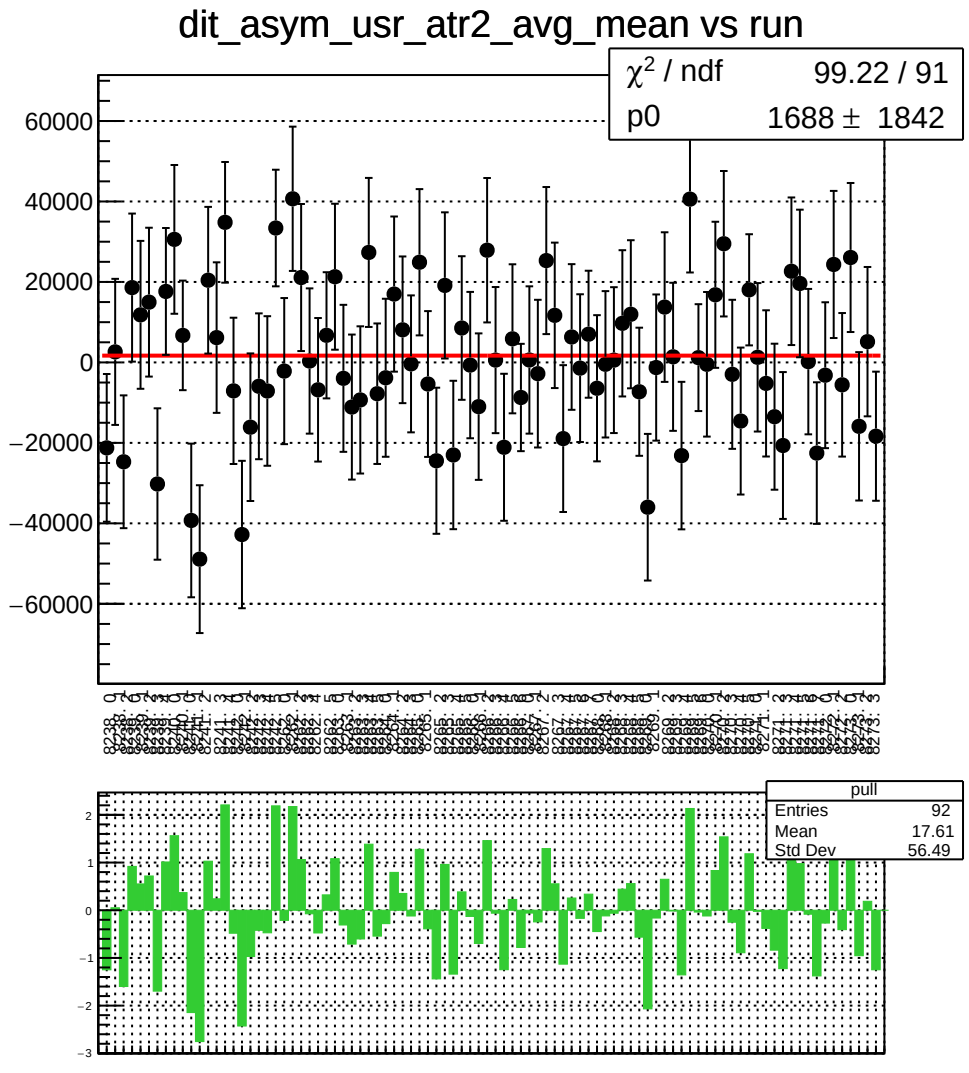

pull1D
Entries 92
Mean −0.01328
Std Dev 1.021
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

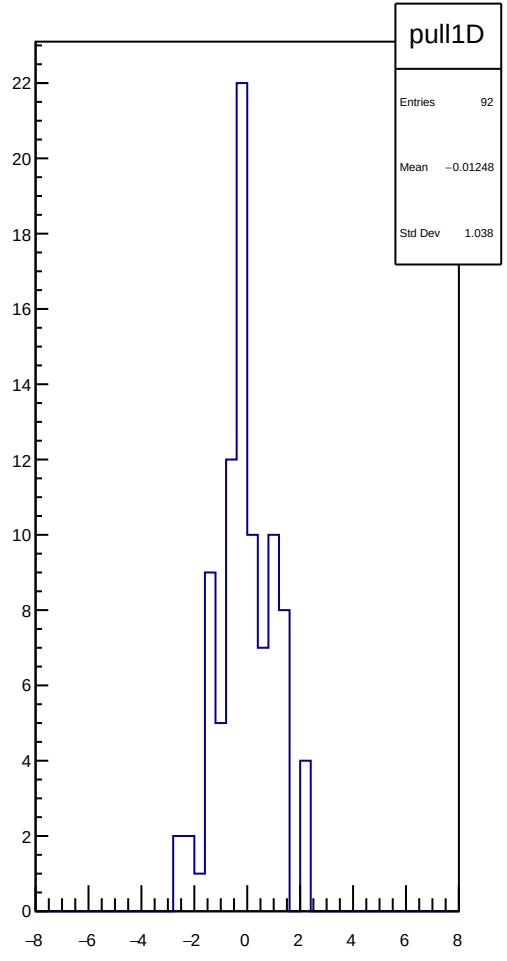

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 396.4 / 91
p0 1726 ± 1.293
1850
1800
1750
1700
1650

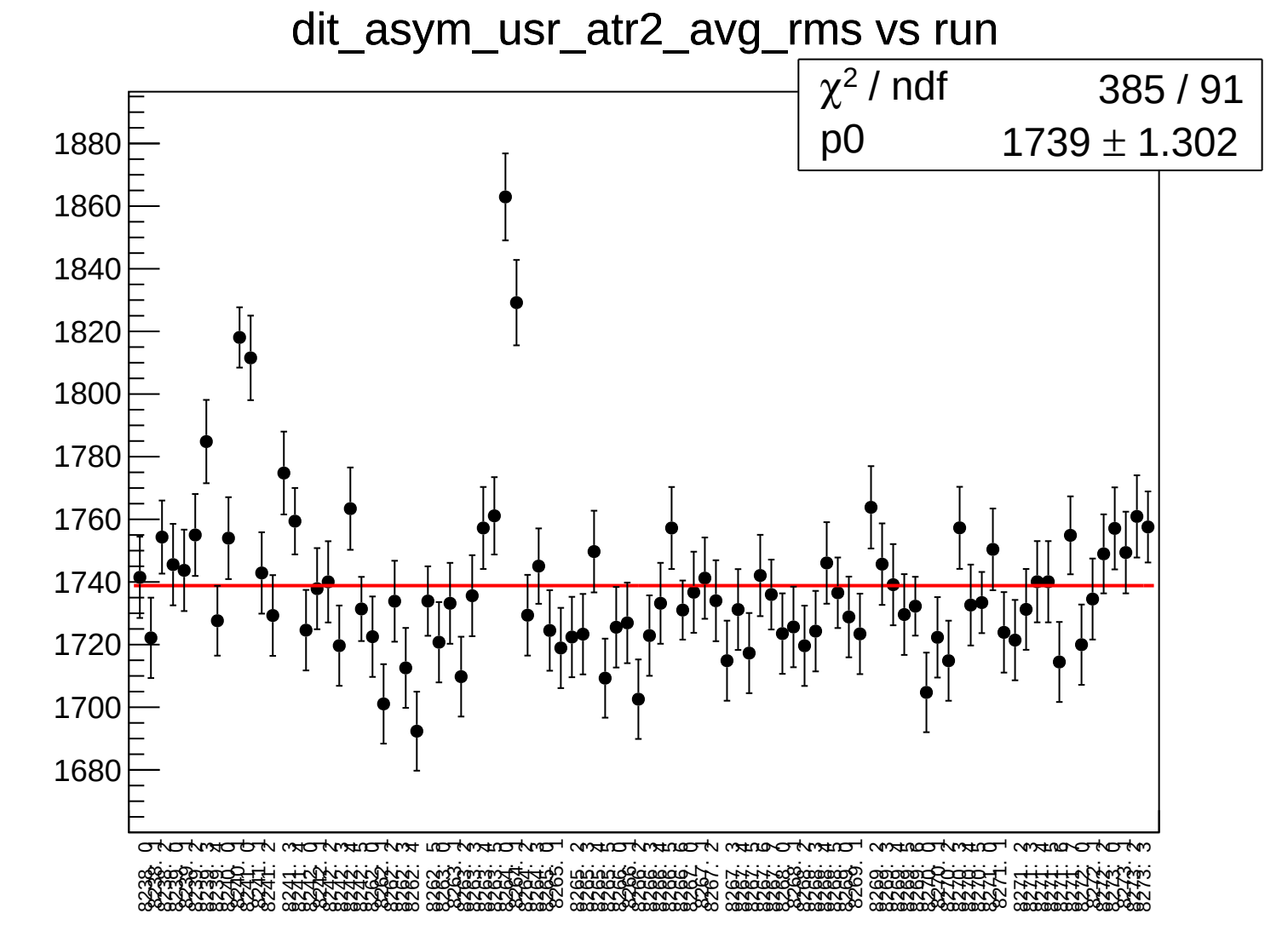

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.38 / 91
p0 2.149e+04 ± 9350
pull
Entries 92
Mean −549.2
Std Dev 0

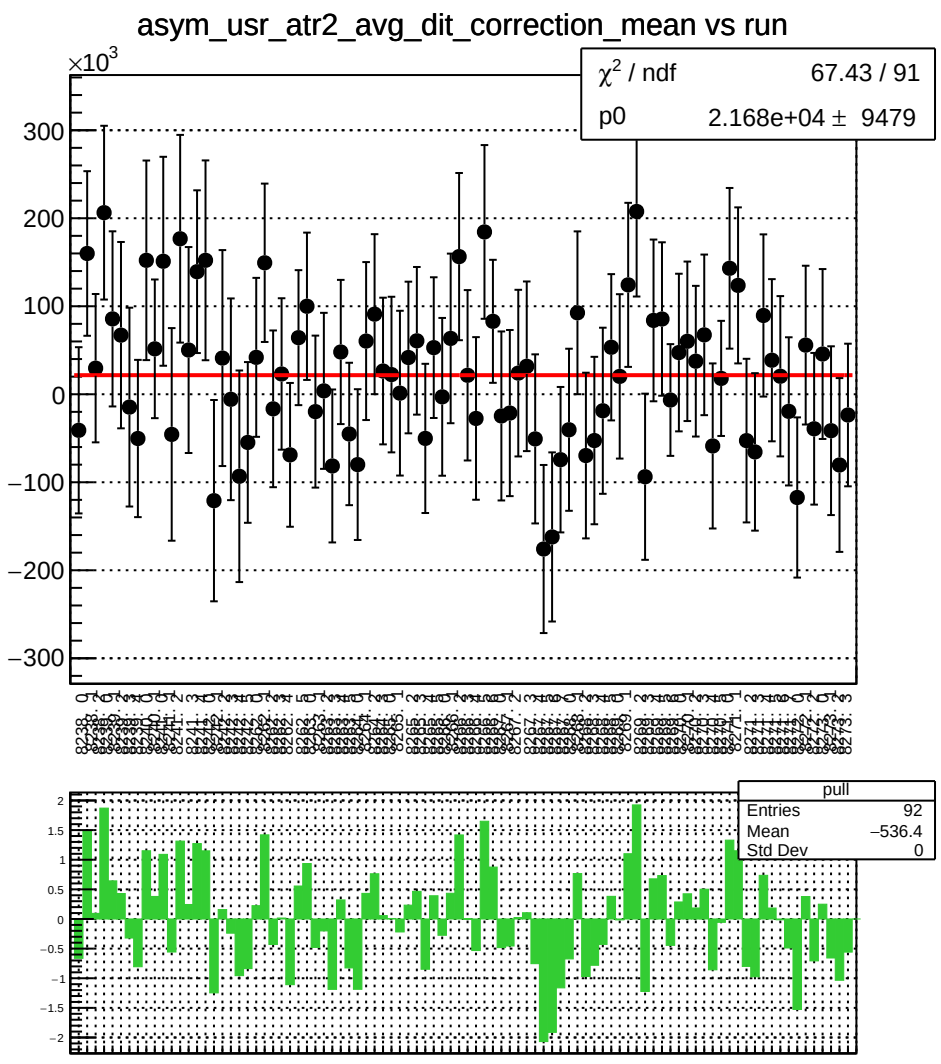

pull1D
Entries 92
Mean 0.007021
Std Dev 0.8557

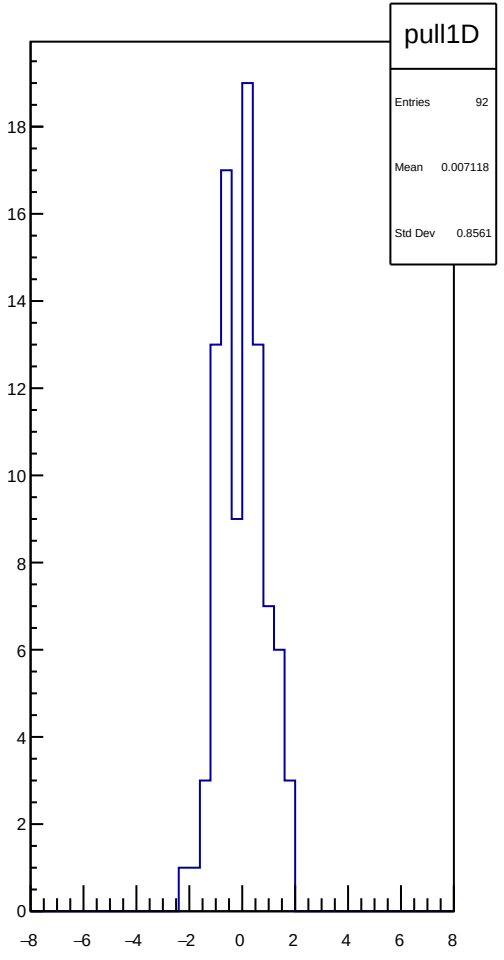

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.644e+04 / 91
p0 8787 ± 6.611
11500
11000
10500
10000
9500
9000
8500
8000
7500

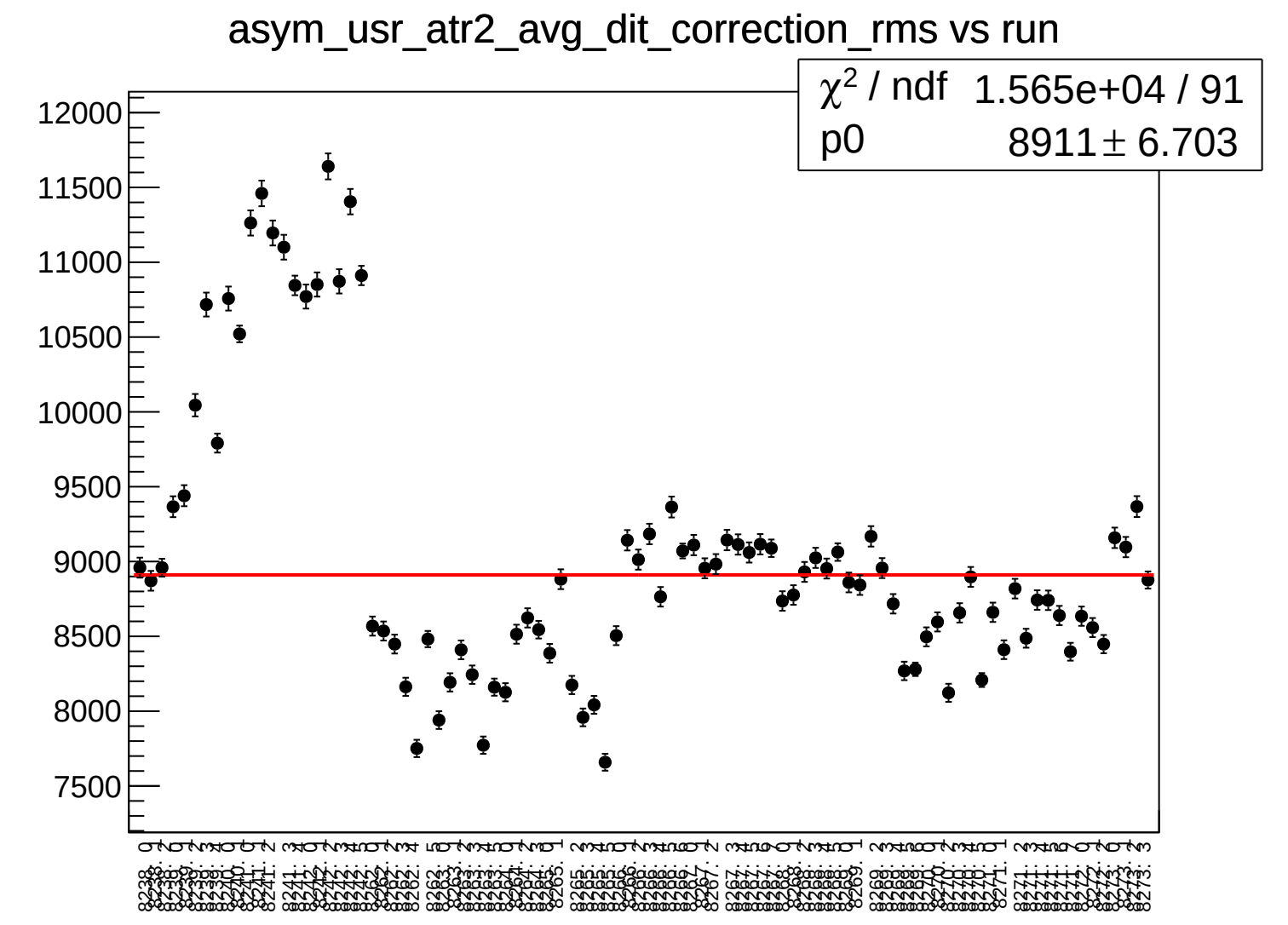

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 99.22 / 91
p0 1688 ± 1842
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 17.61
Std Dev 56.49
2
1
0
−1
−2
−3

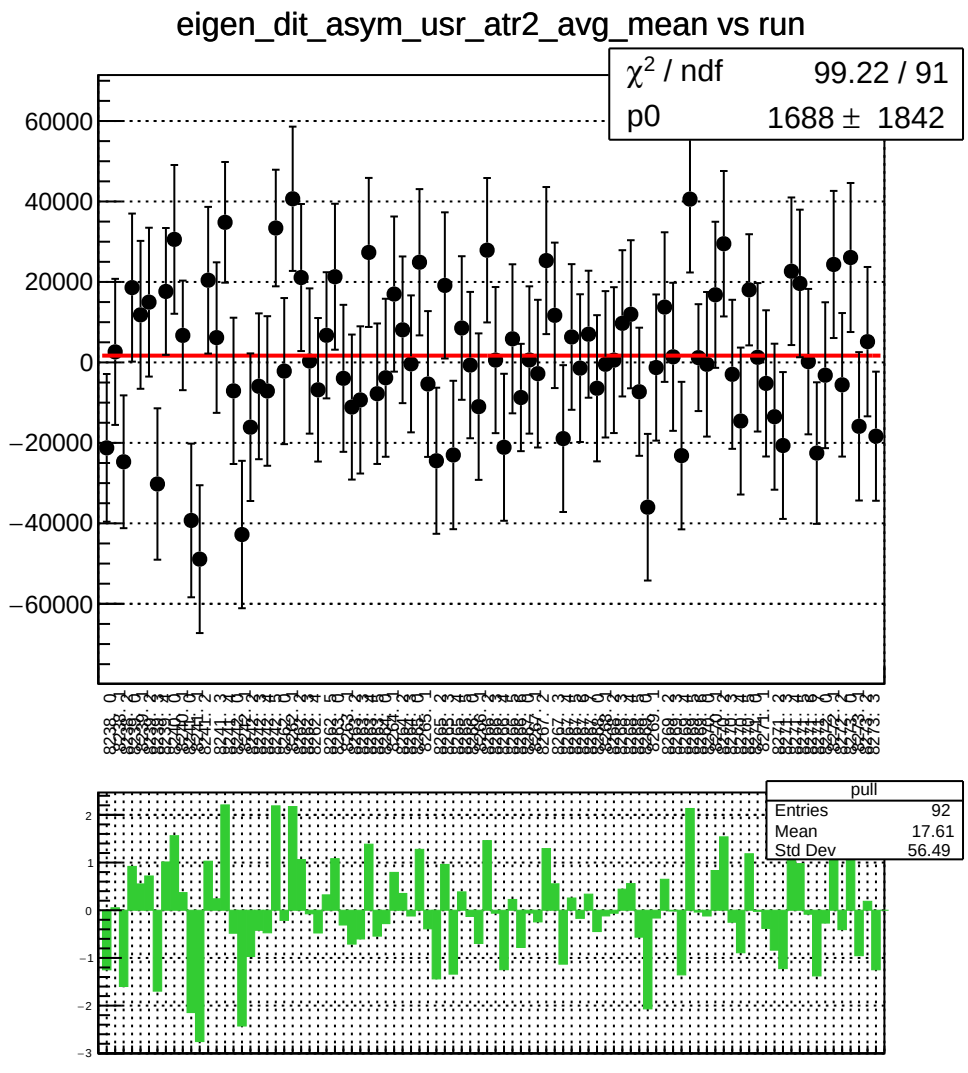

pull1D
Entries 92
Mean −0.01248
Std Dev 1.038
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

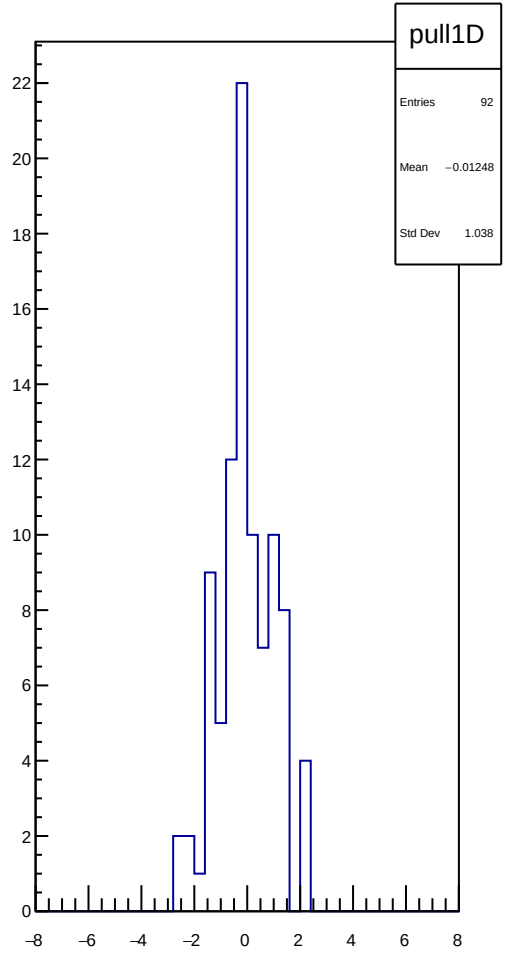

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 385 / 91
p0 1739 ± 1.302
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

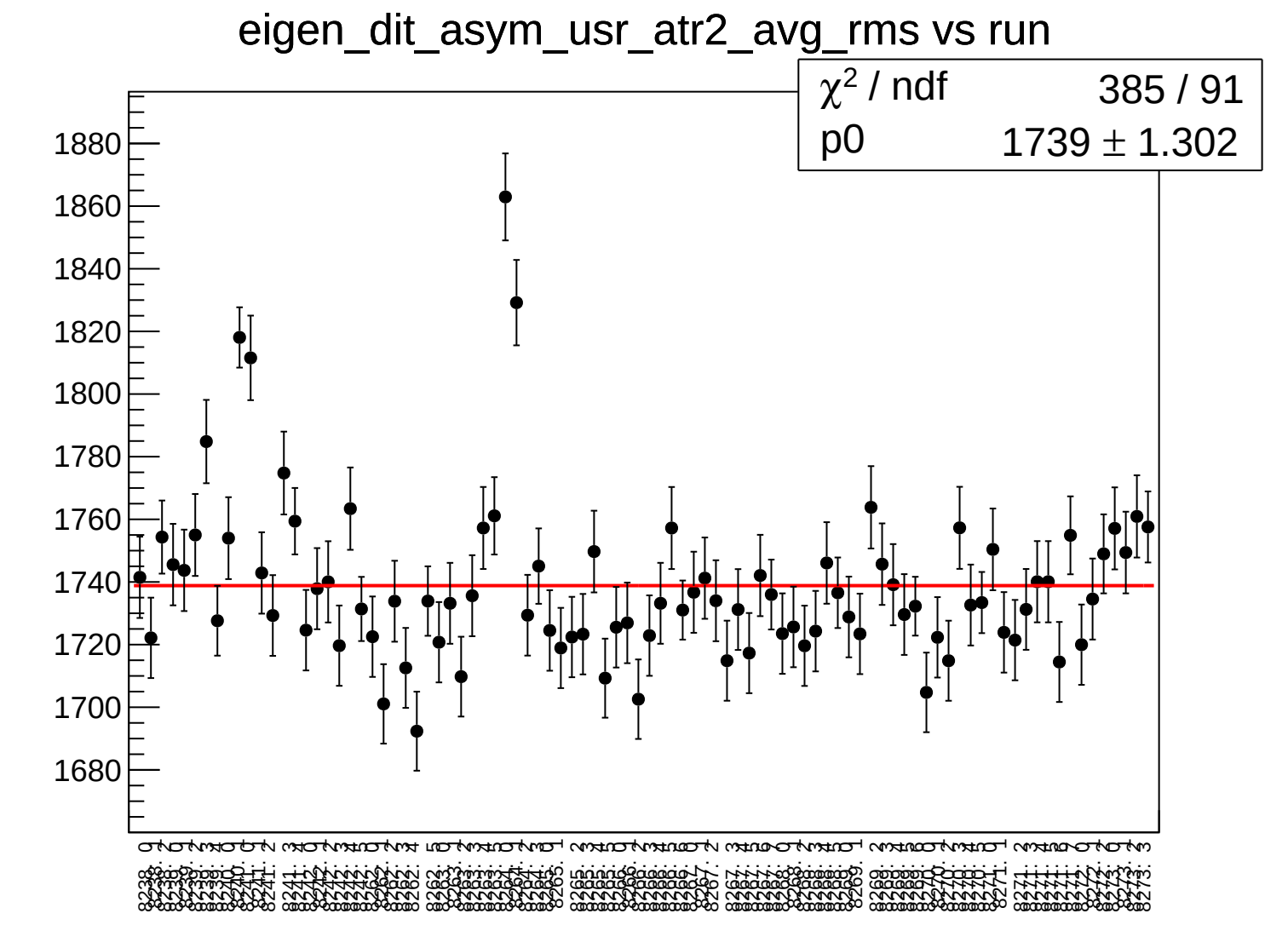

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 67.43 / 91
p0 2.168e+04 ± 9479
pull
Entries 92
Mean −536.4
Std Dev 0

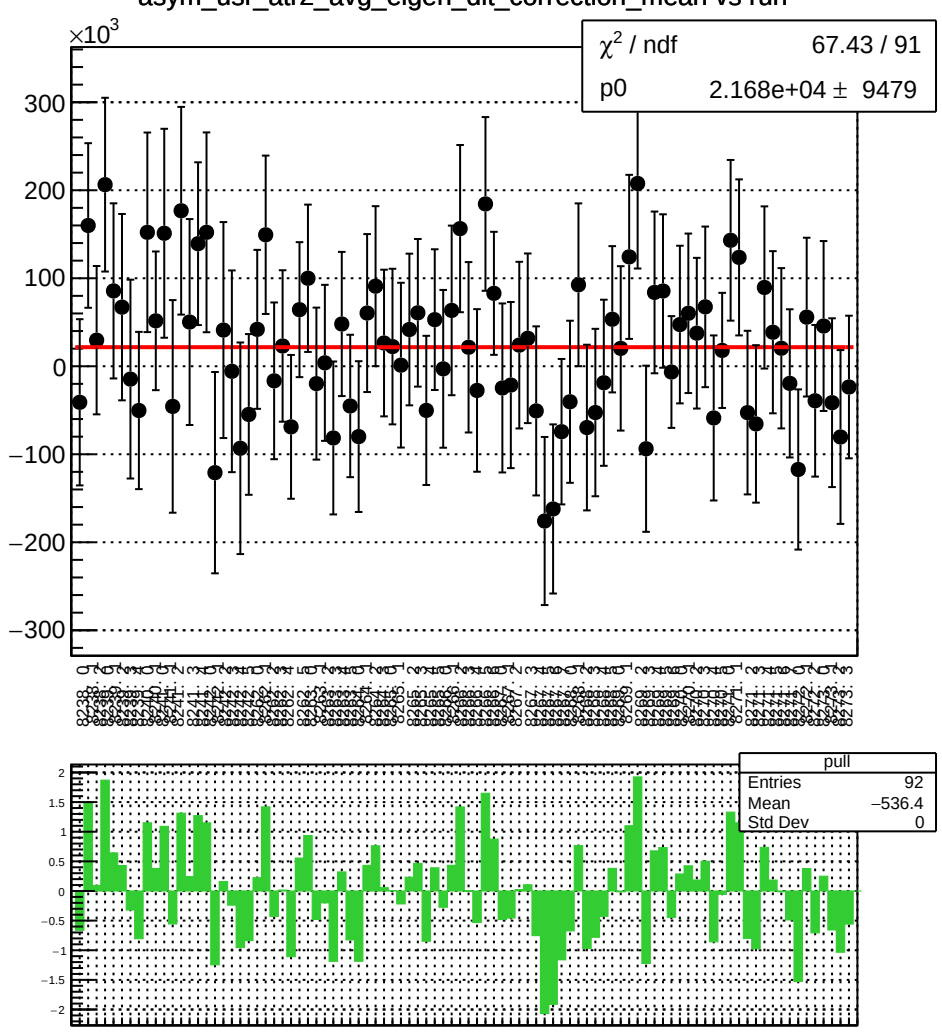

pull1D
Entries 92
Mean 0.007118
Std Dev 0.8561

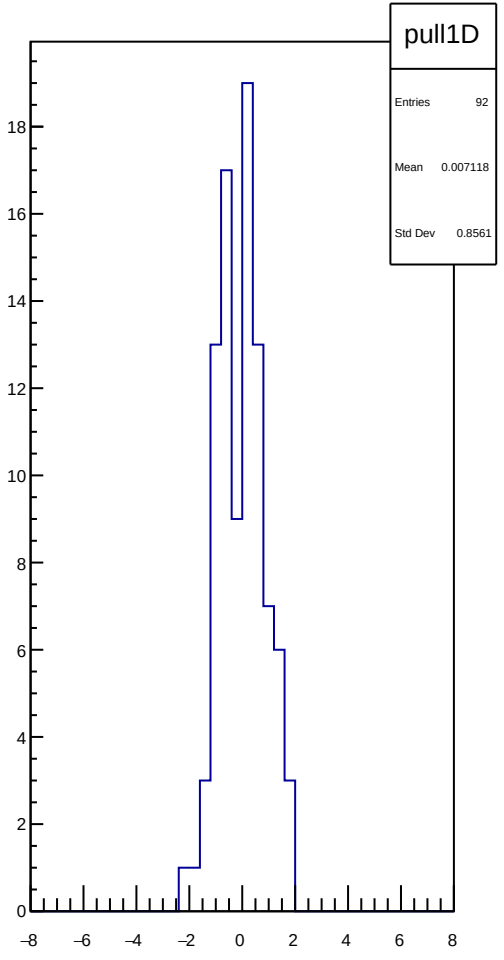

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 1.565e+04 / 91
p0 8911 ± 6.703
12000
11500
11000
10500
10000
9500
9000
8500
8000
7500

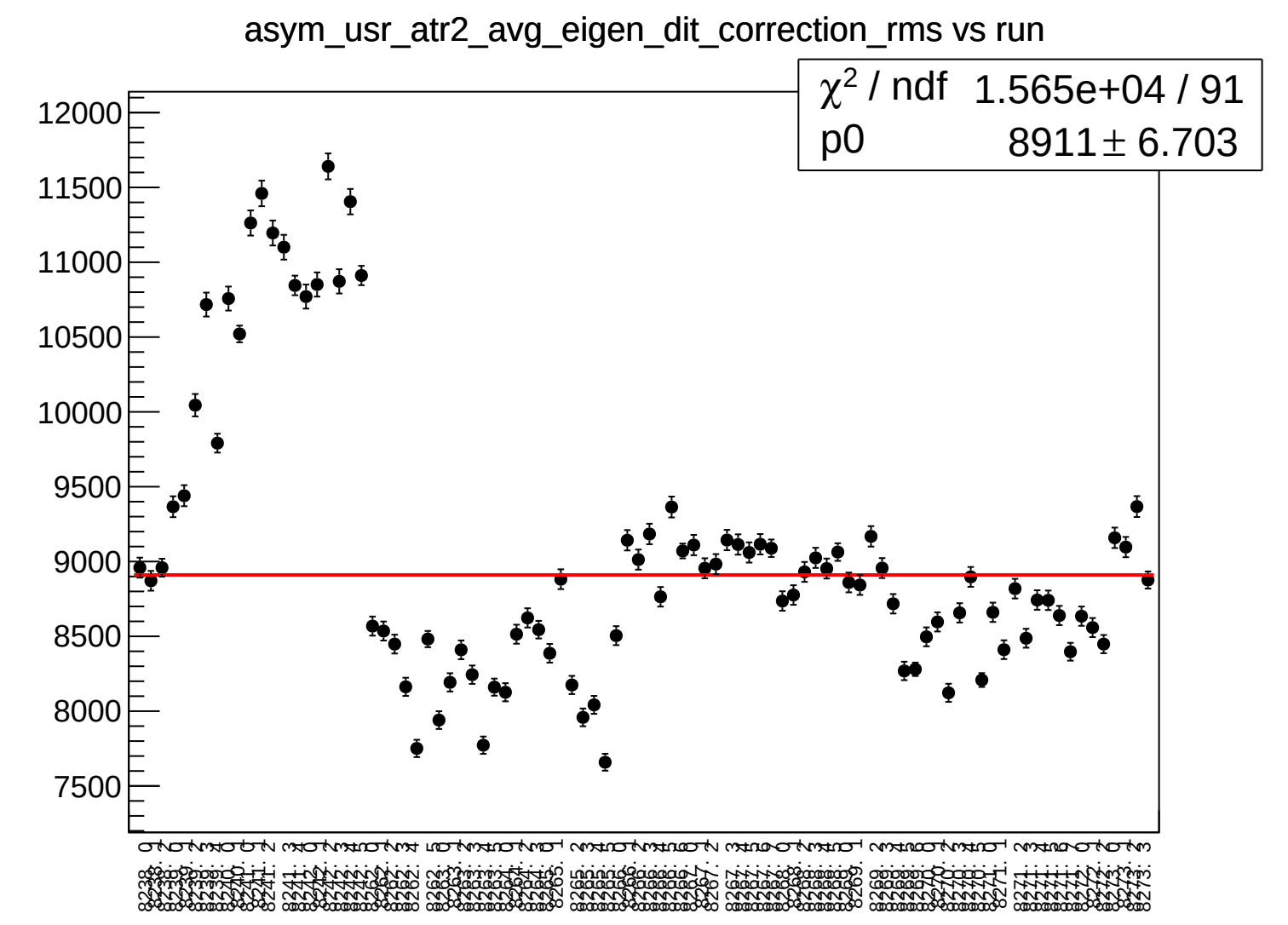

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 99.22 / 91
p0 1688 ± 1842
pull
Entries 92
Mean 17.61
Std Dev 56.49

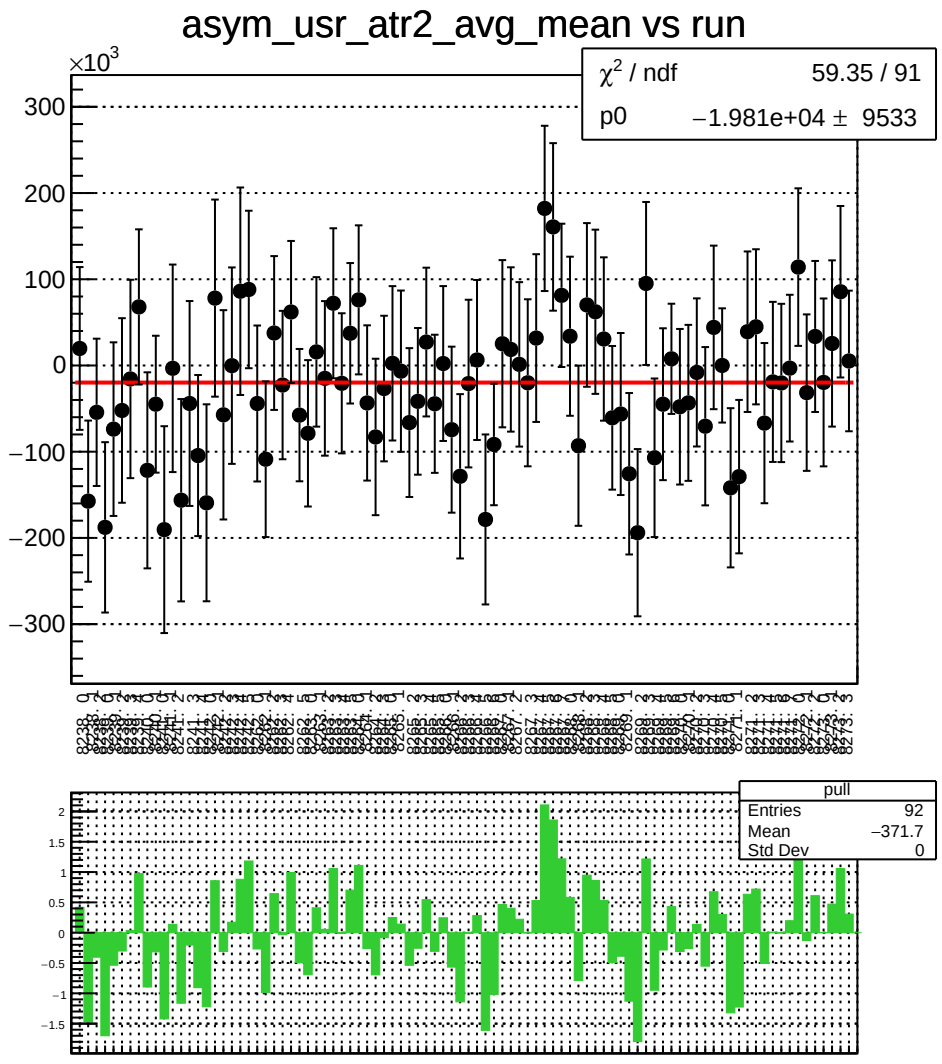

pull1D
Entries 92
Mean −0.01248
Std Dev 1.038

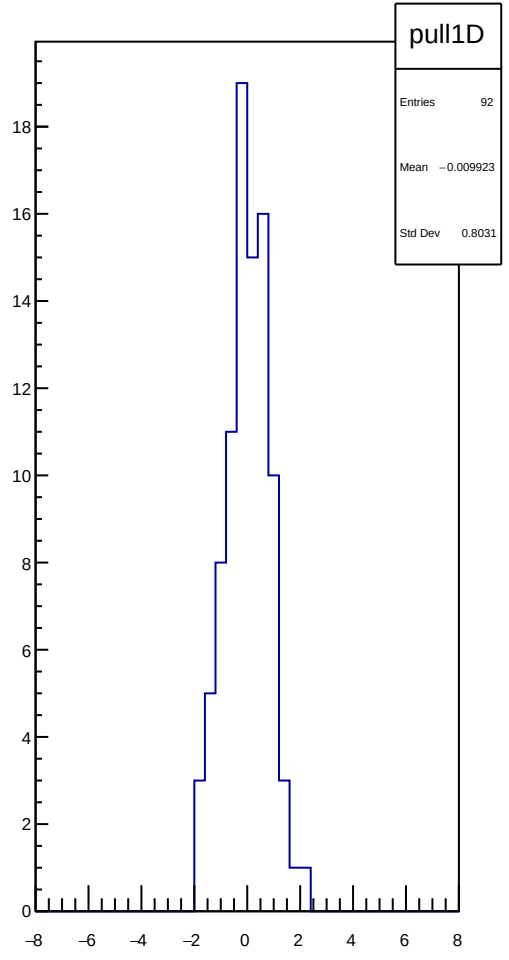

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 385 / 91
p0 1739 ± 1.302
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

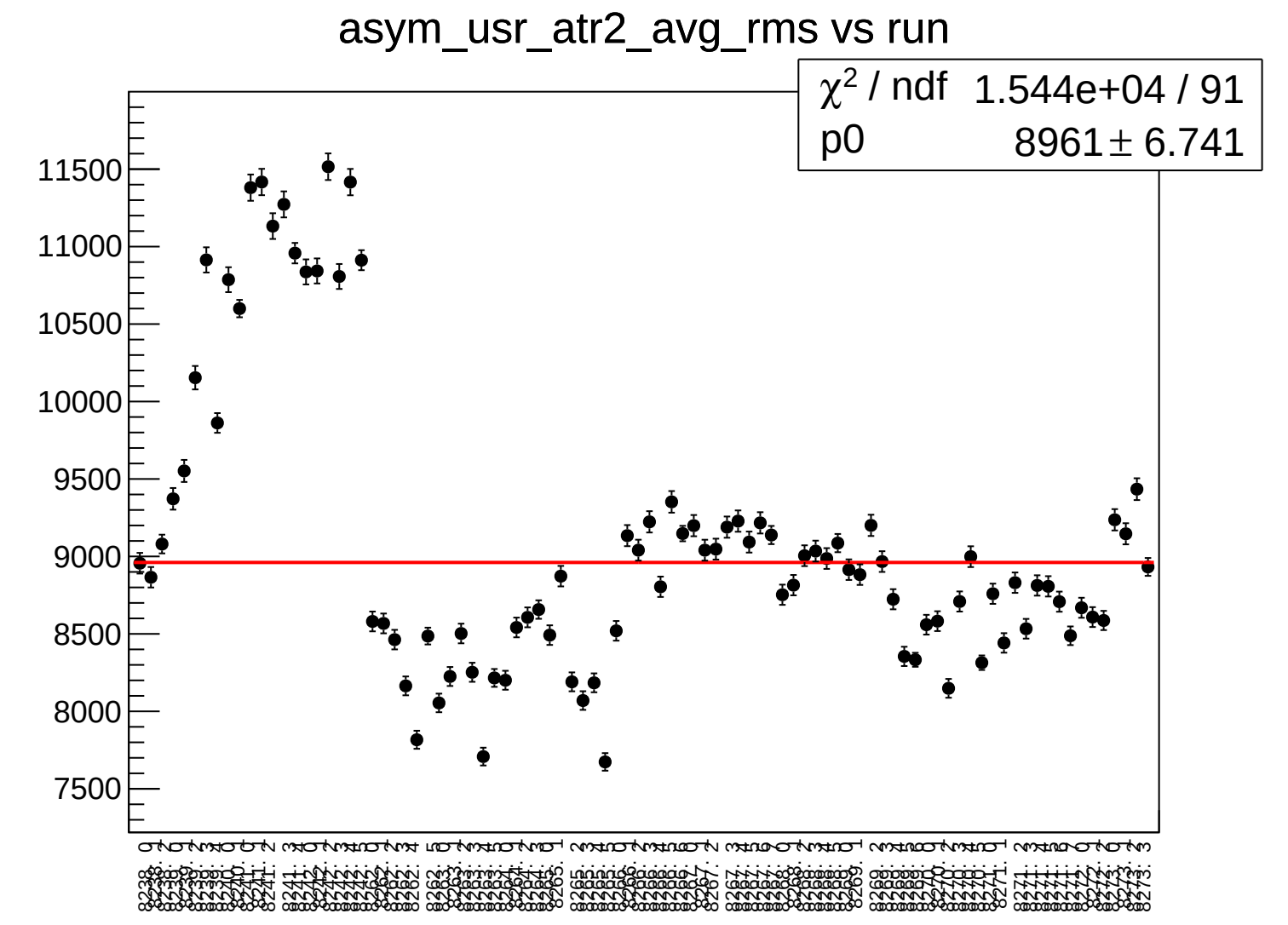

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 67.43 / 91
p0 2.168e+04 ± 9479
pull
Entries 92
Mean −536.4
Std Dev 0

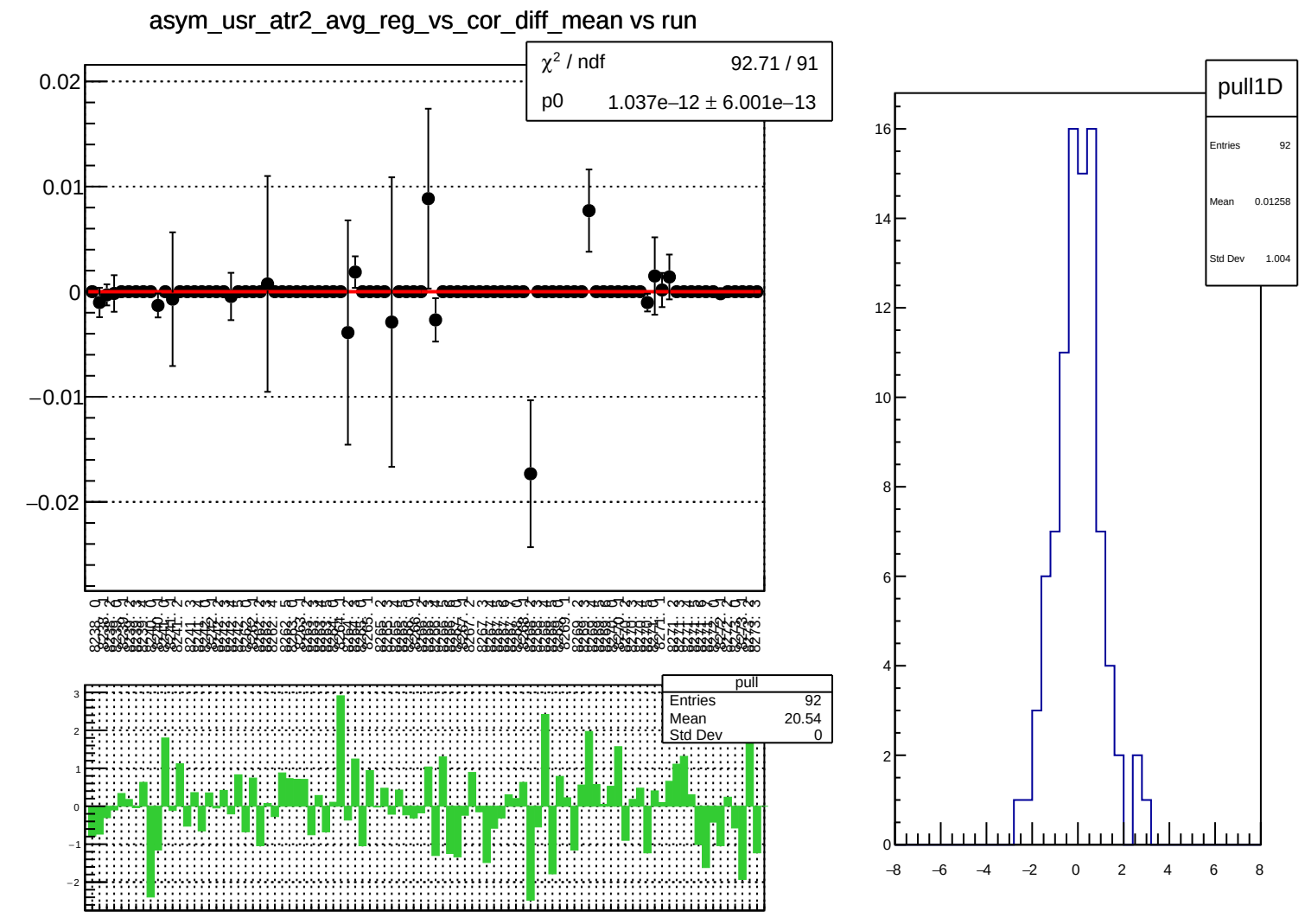

pull1D
Entries 92
Mean 0.007118
Std Dev 0.8561

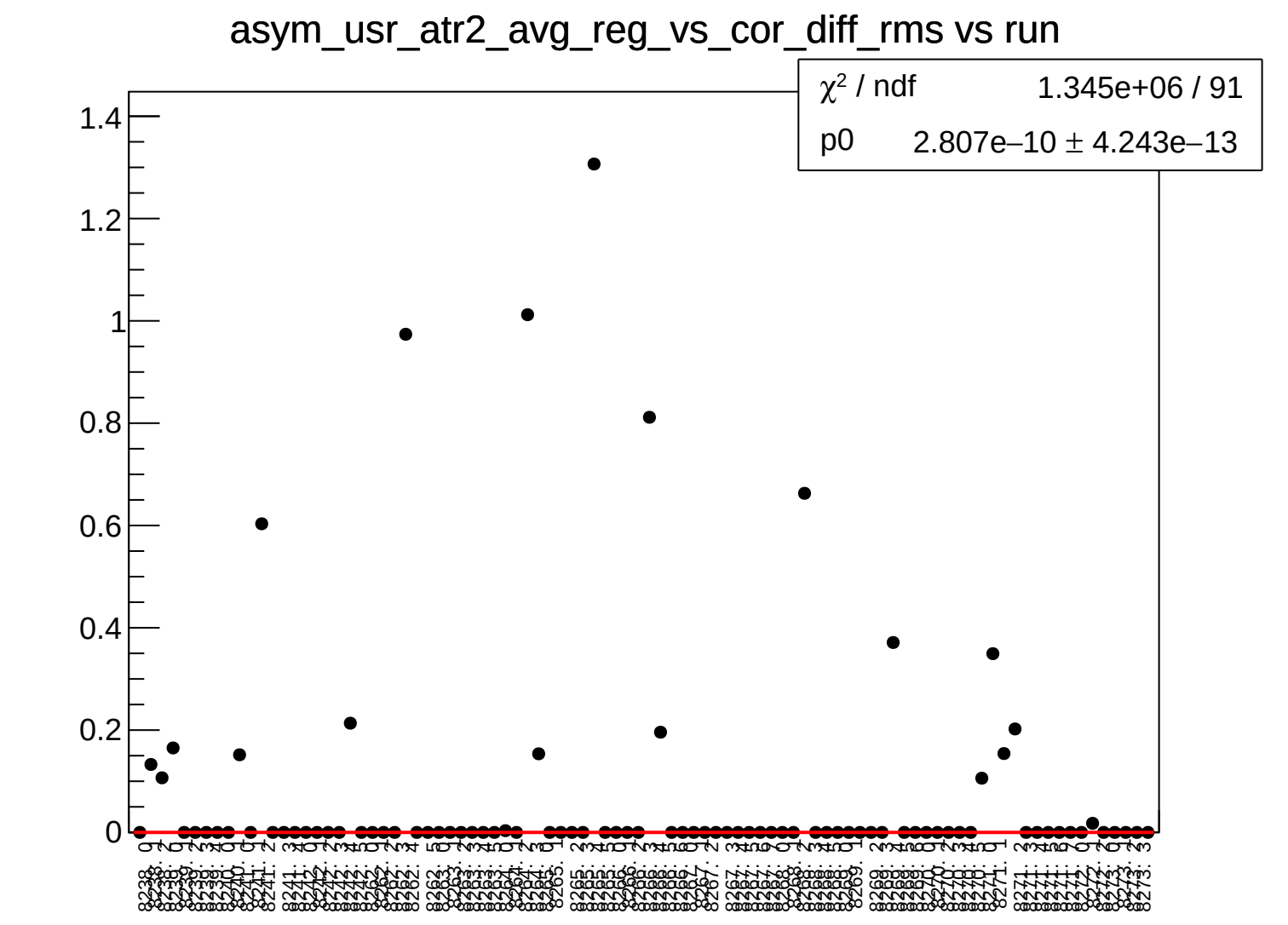

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.565e+04 / 91
p0 8911 ± 6.703
12000
11500
11000
10500
10000
9500
9000
8500
8000
7500


asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 59.35 / 91
p0 −1.981e+04 ± 9533
pull
Entries 92
Mean −371.7
Std Dev 0

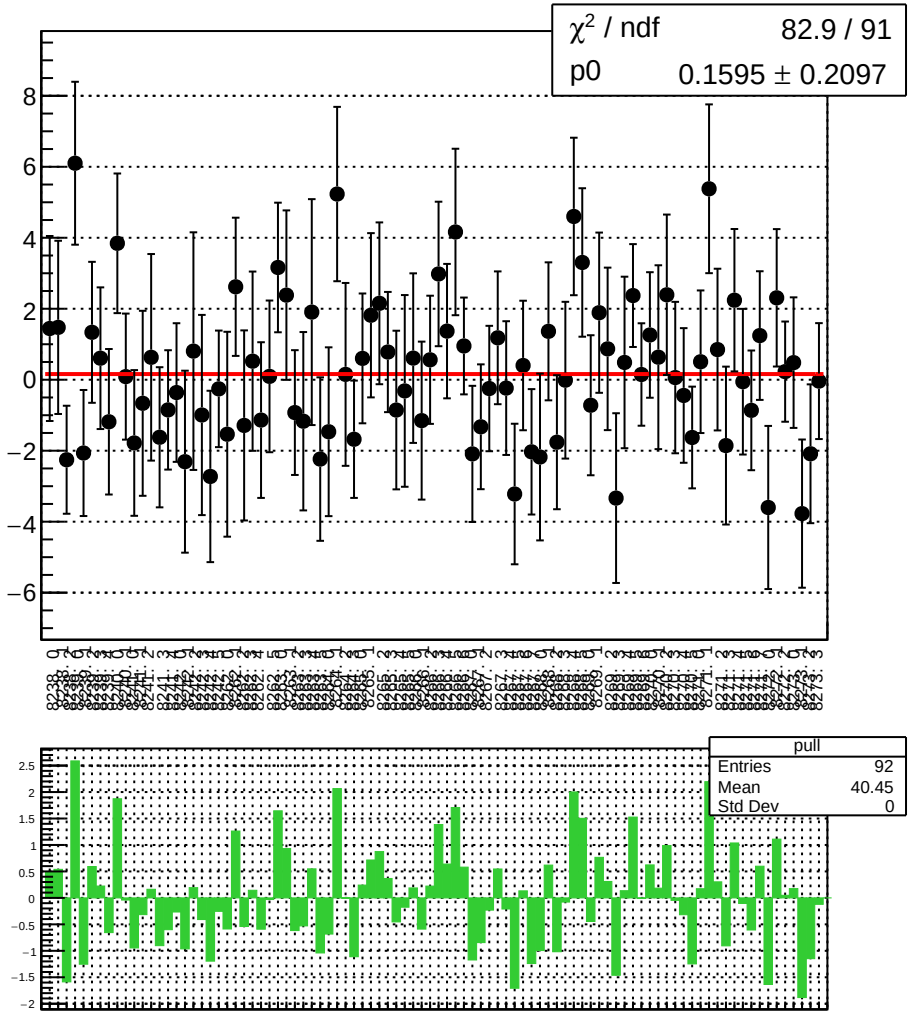

pull1D
Entries 92
Mean −0.009923
Std Dev 0.8031

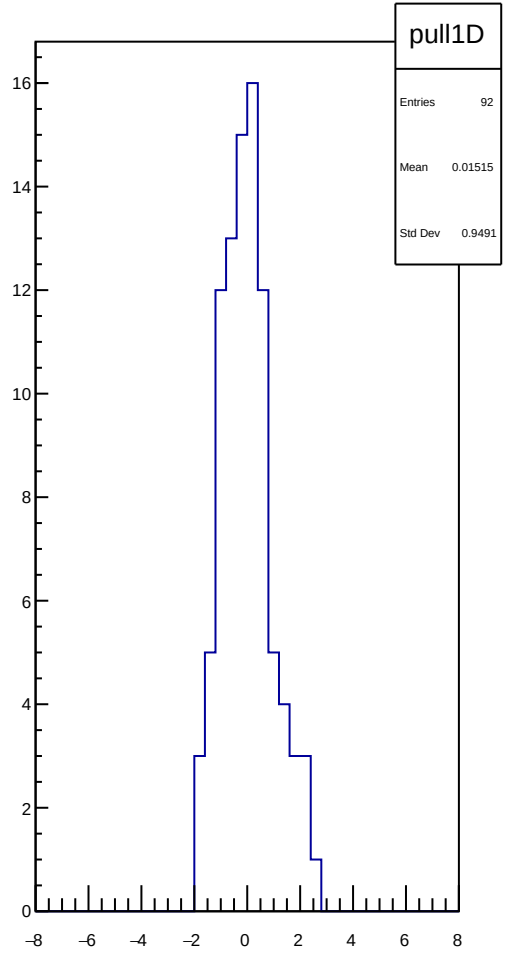

asym_usr_atr2_avg_rms vs run
$\chi^2$ / ndf 1.544e+04 / 91
p0 8961 ± 6.741
11500
11000
10500
10000
9500
9000
8500
8000
7500

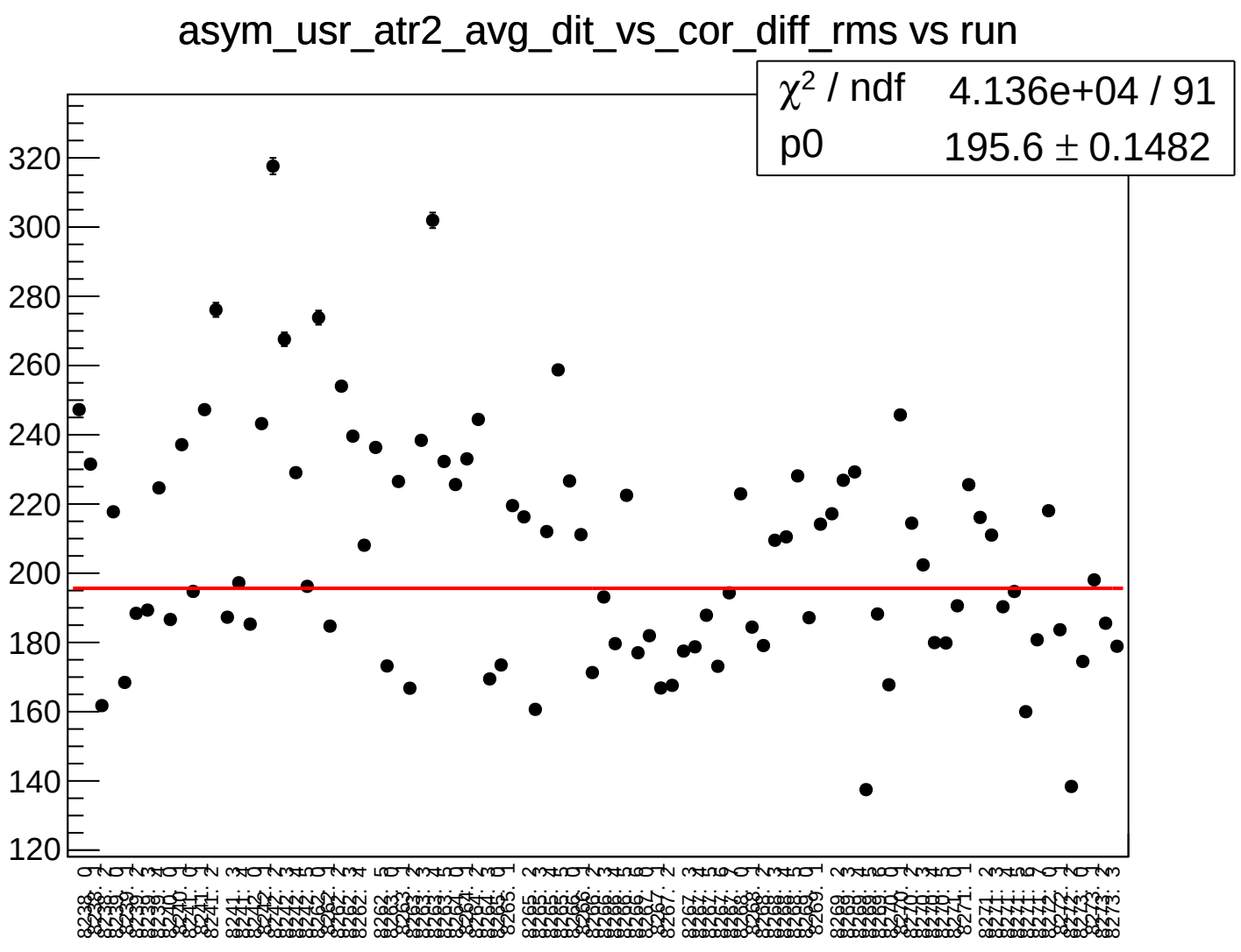

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.71 / 91
p0 1.037e−12 ± 6.001e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean 20.54
Std Dev 0
pull1D
Entries 92
Mean 0.01258
Std Dev 1.004

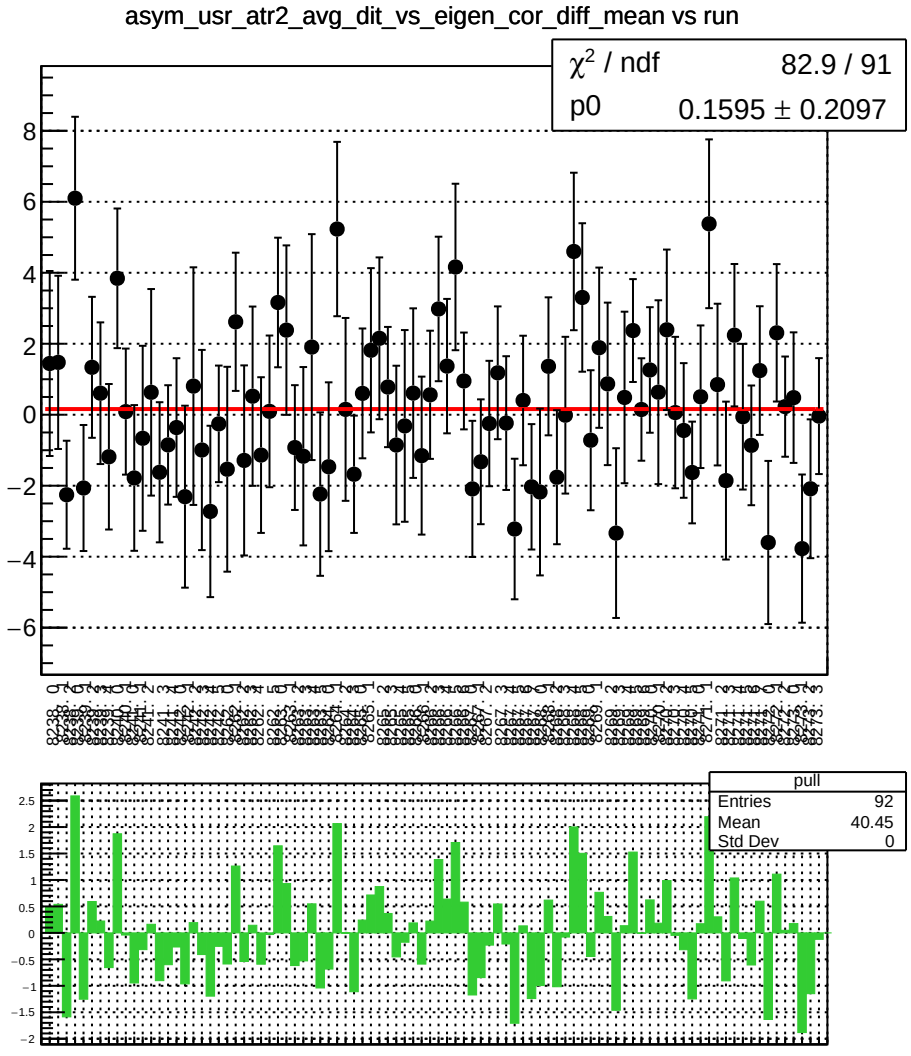

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.345e+06 / 91
p0 2.807e−10 ± 4.243e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

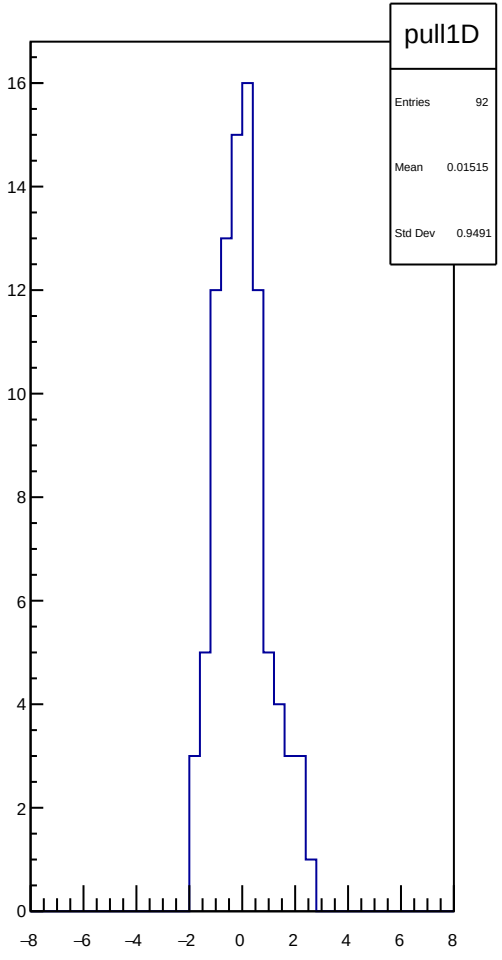
asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run

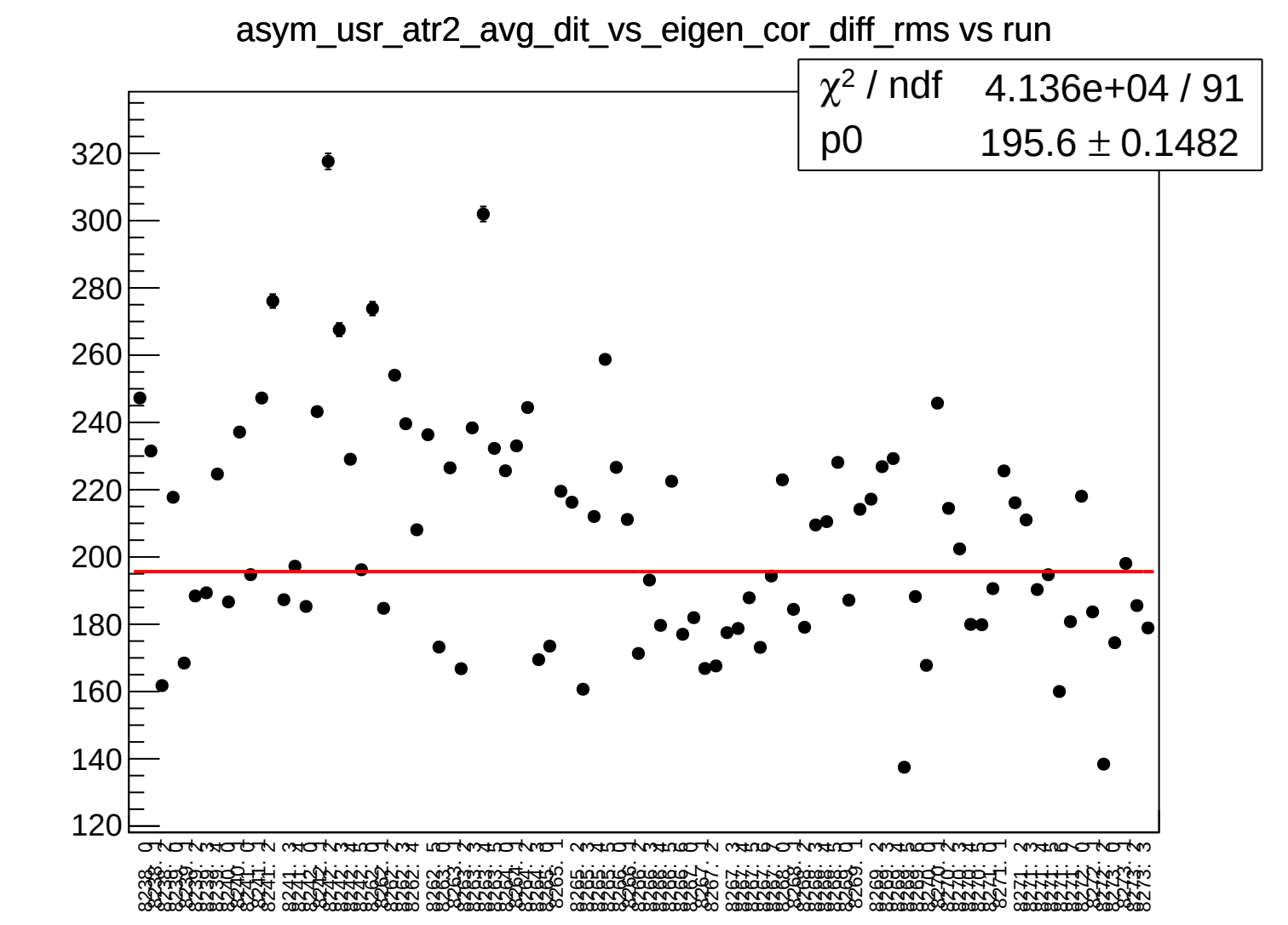


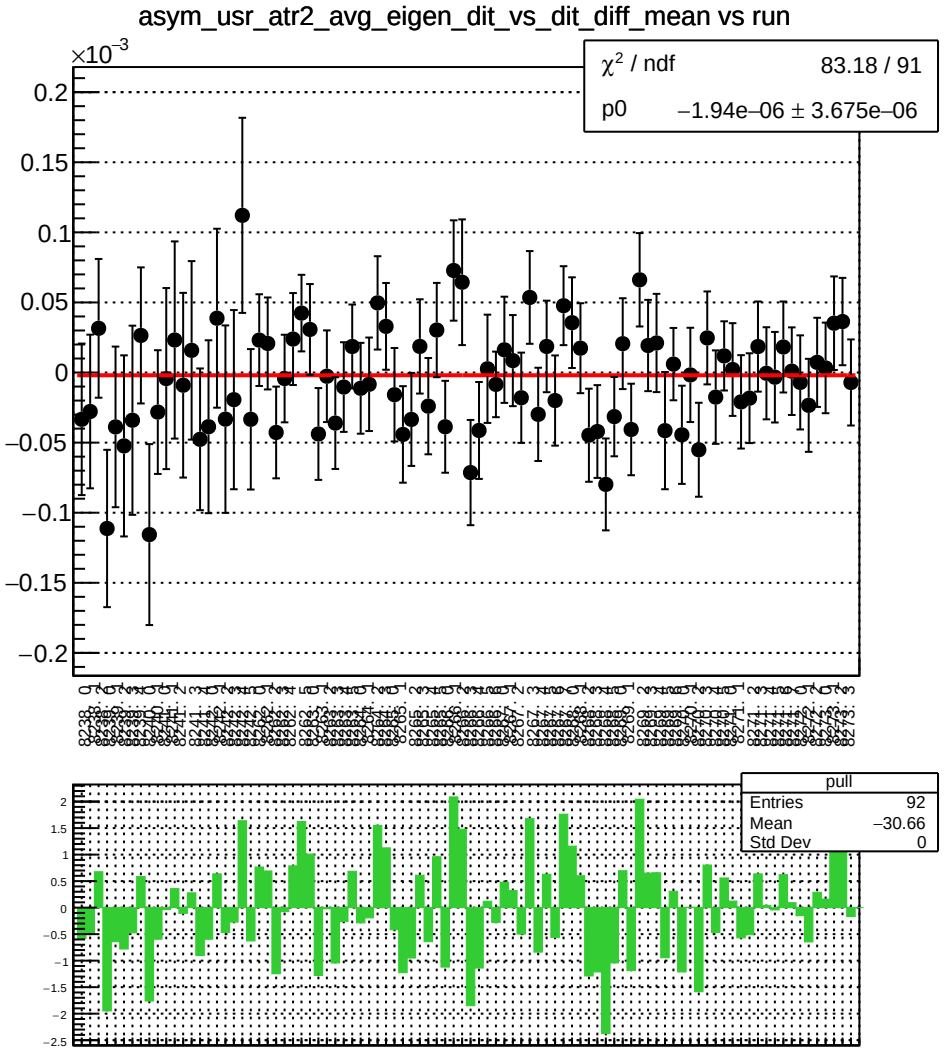



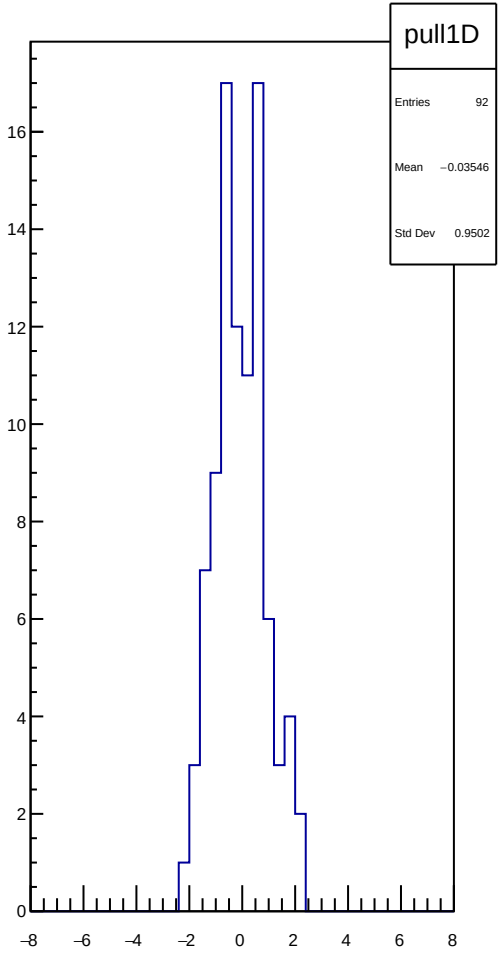

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.136e+04 / 91
p0 195.6 ± 0.1482
320
300
280
260
240
220
200
180
160
140
120

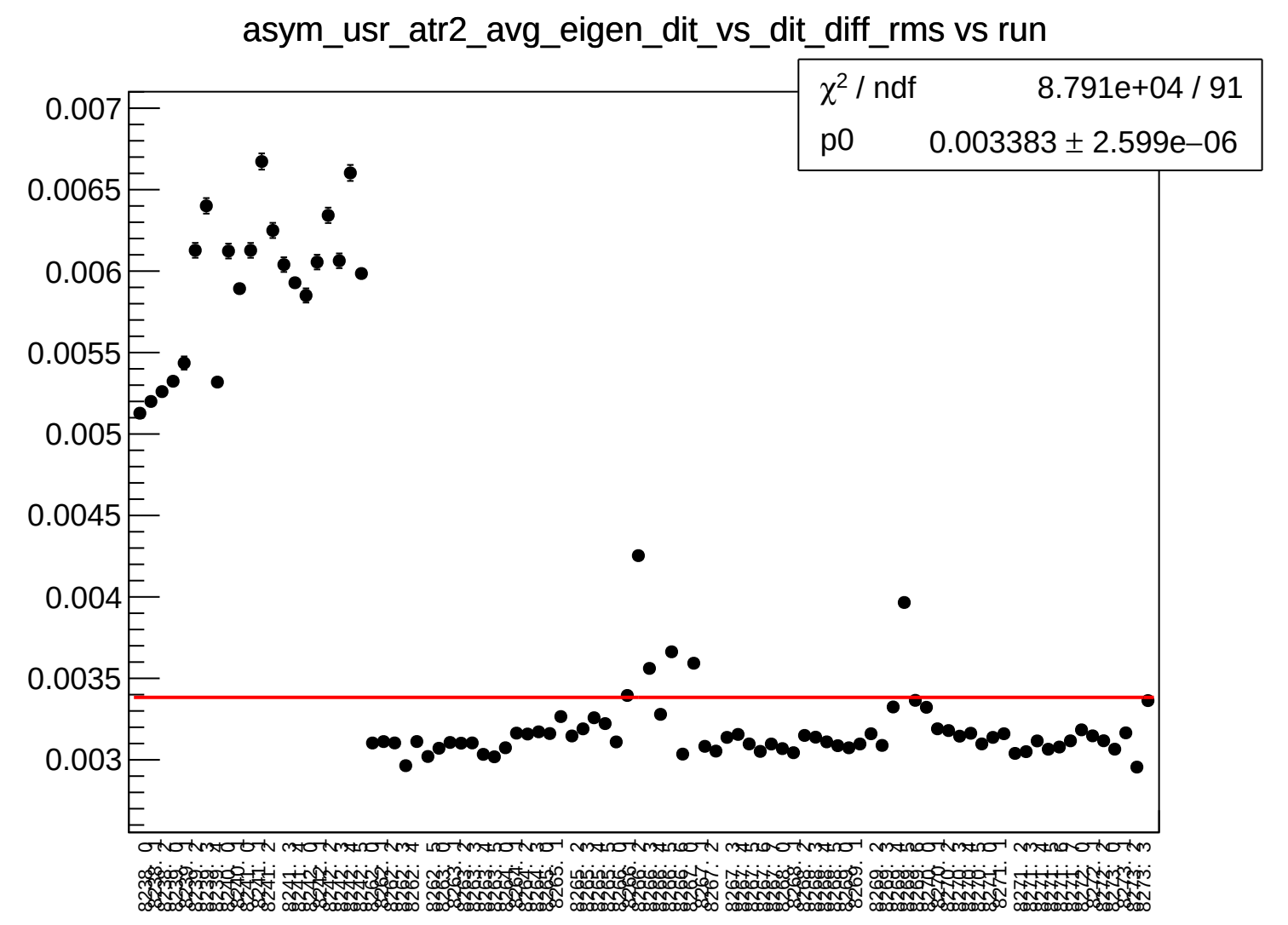

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.9 / 91
p0 0.1595 ± 0.2097
pull
Entries 92
Mean 40.45
Std Dev 0

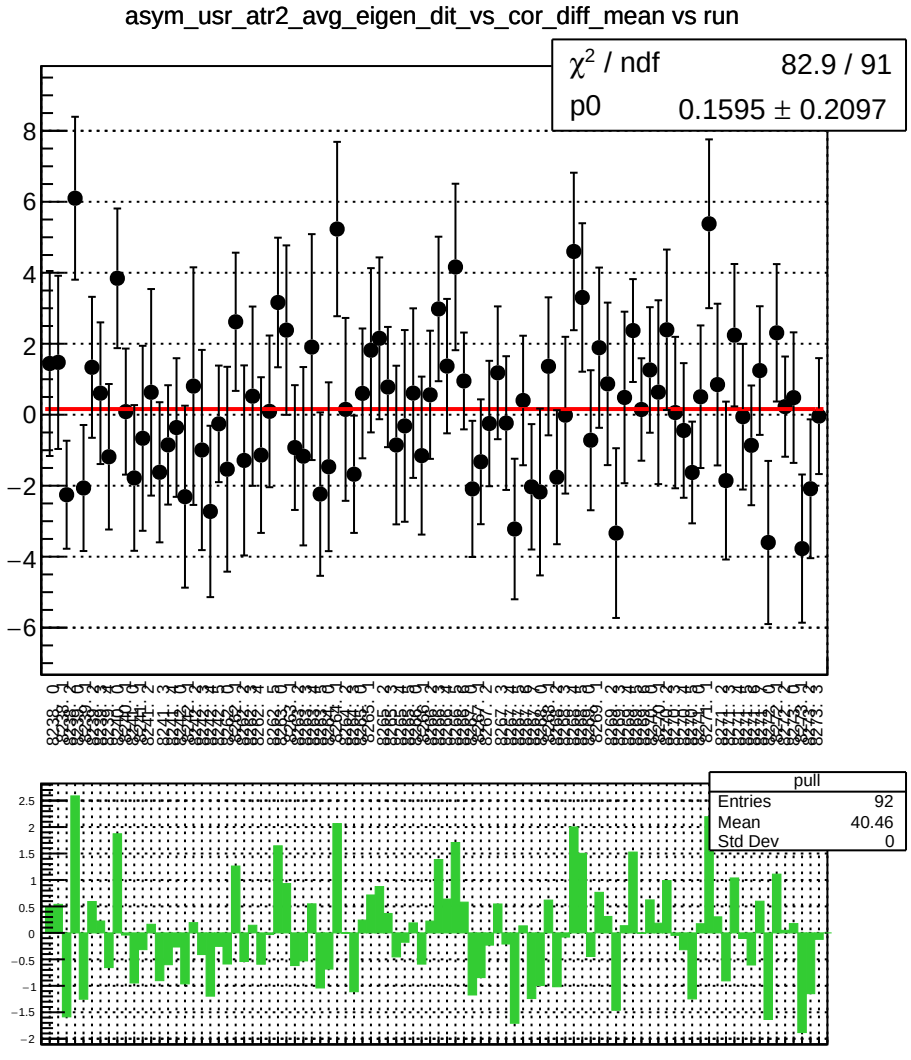

pull1D
Entries 92
Mean 0.01515
Std Dev 0.9491

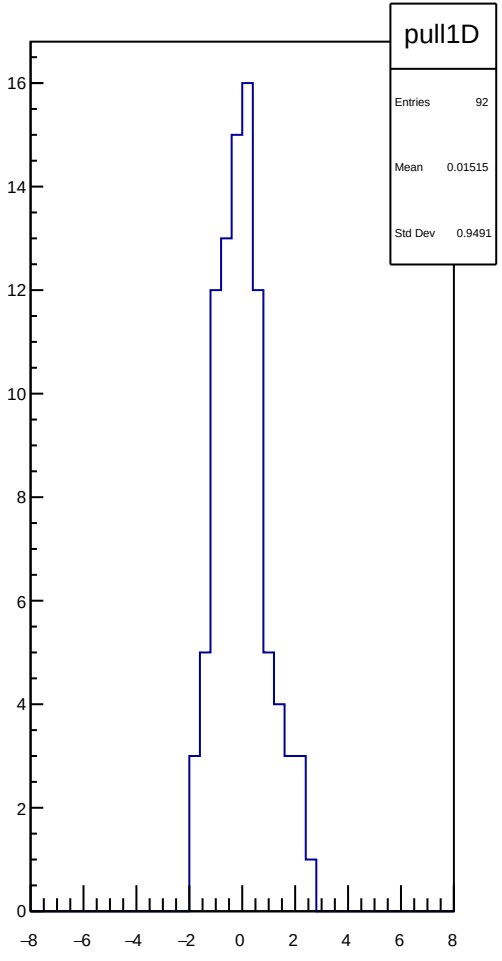

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.136e+04 / 91
p0 195.6 ± 0.1482
320
300
280
260
240
220
200
180
160
140
120

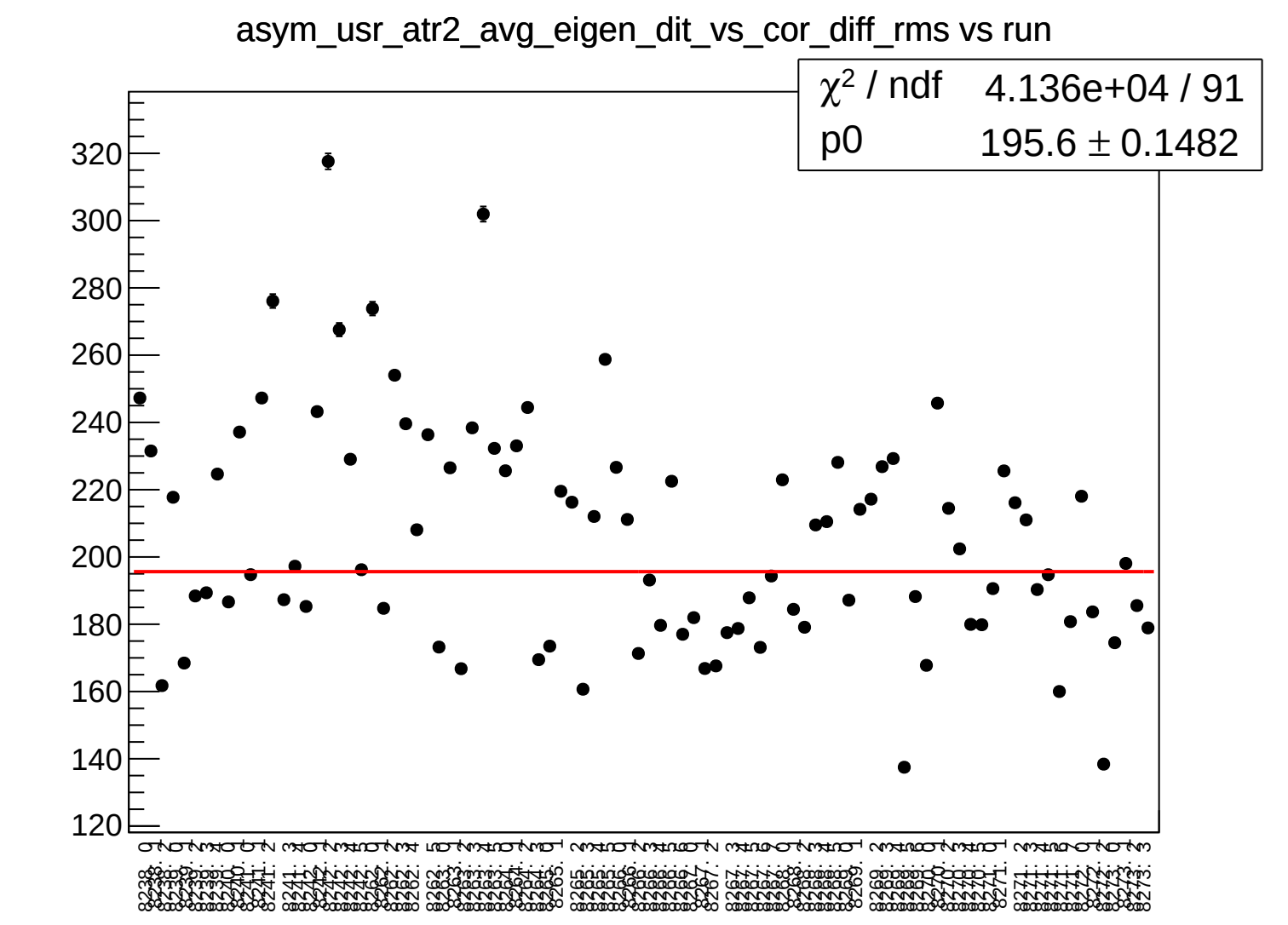

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.18 / 91
p0 −1.94e−06 ± 3.675e−06
pull
Entries 92
Mean −30.66
Std Dev 0

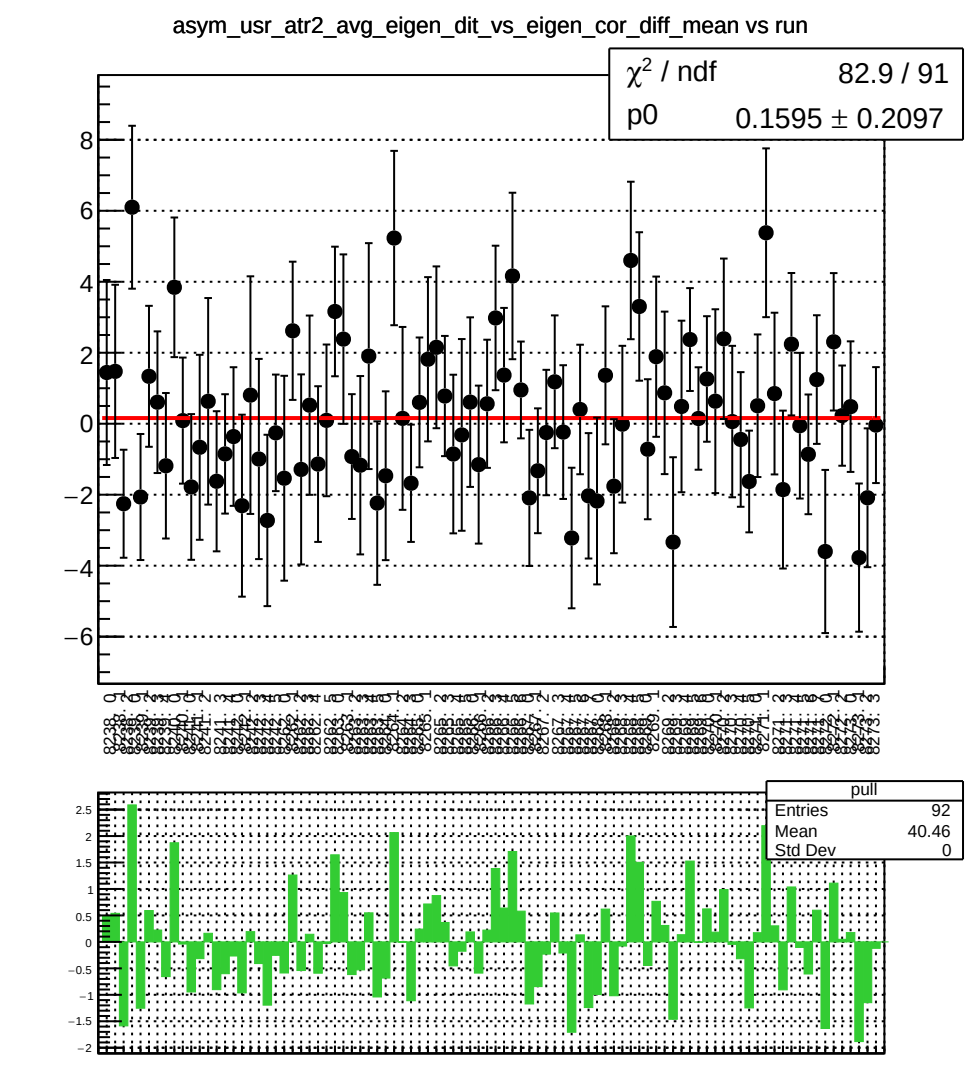

pull1D
Entries 92
Mean −0.03546
Std Dev 0.9502

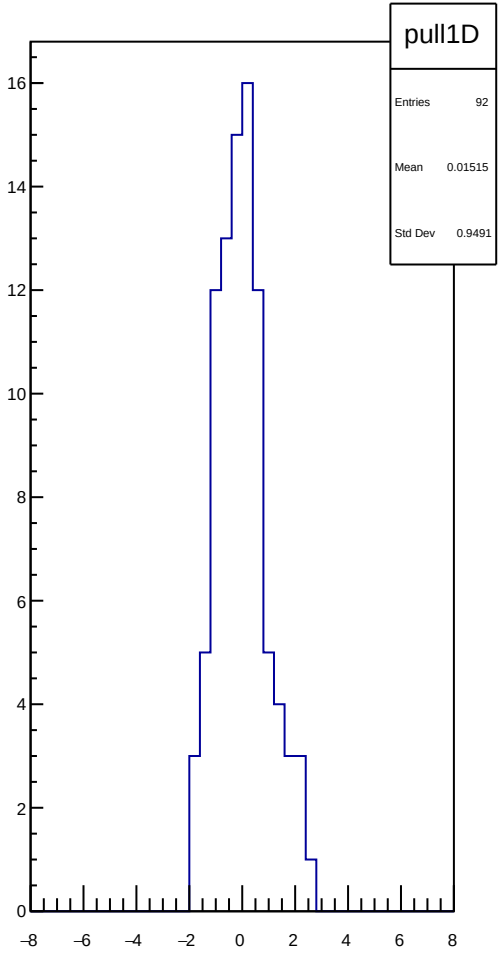

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.791e+04 / 91
p0 0.003383 ± 2.599e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

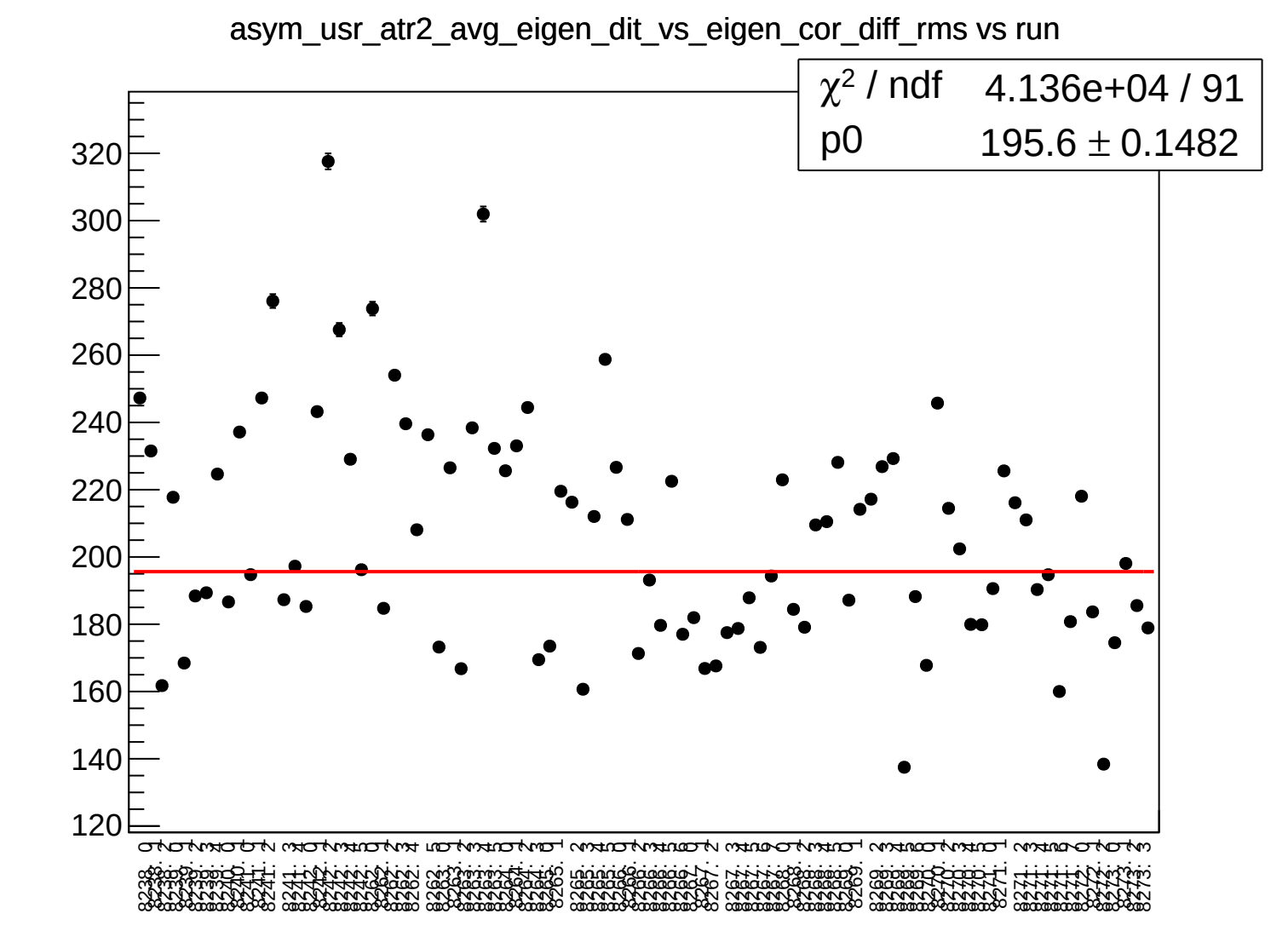

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.9 / 91
p0 0.1595 ± 0.2097
pull
Entries 92
Mean 40.46
Std Dev 0

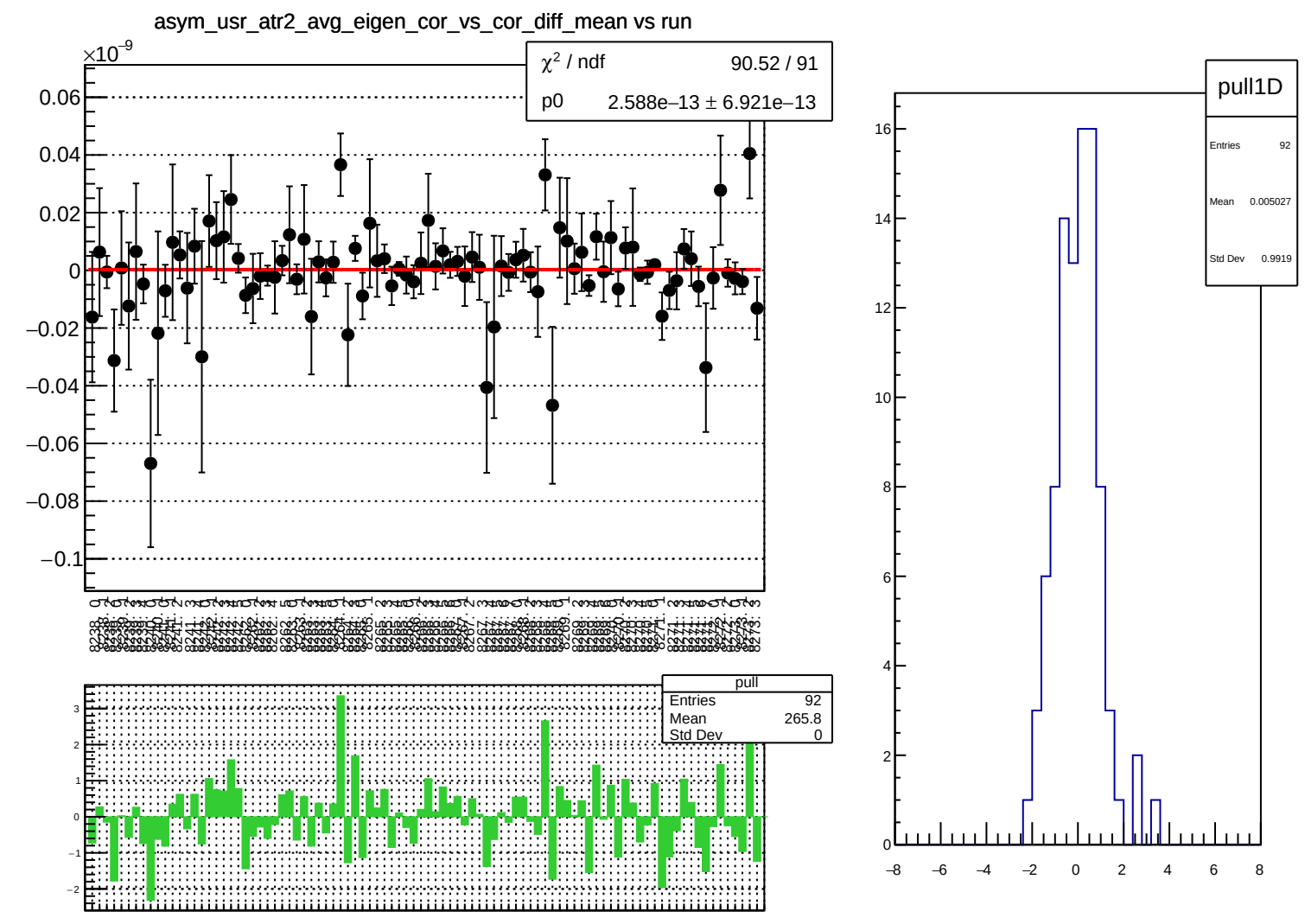

pull1D
Entries 92
Mean 0.01515
Std Dev 0.9491

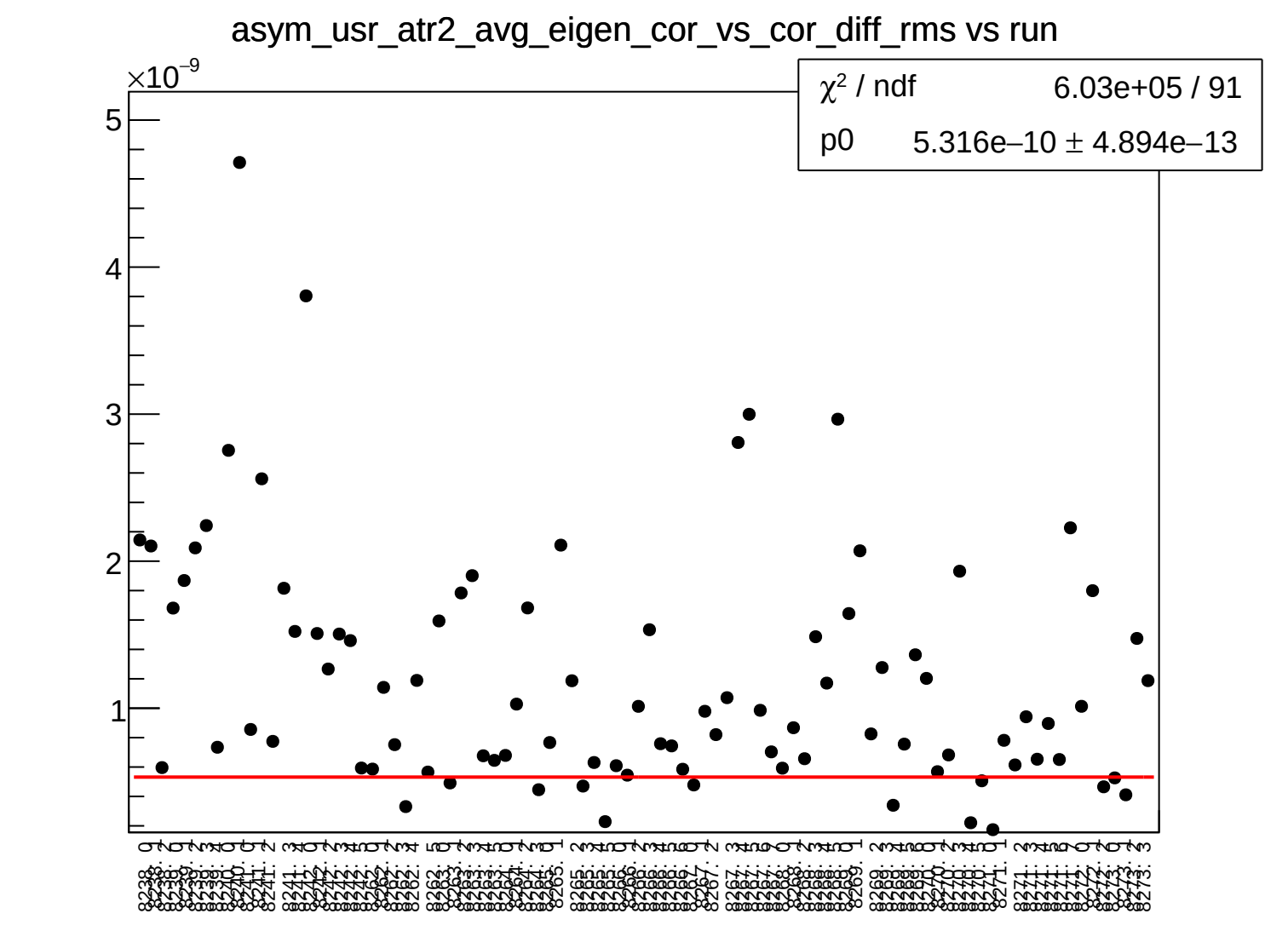

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.136e+04 / 91
p0 195.6 ± 0.1482
320
300
280
260
240
220
200
180
160
140
120

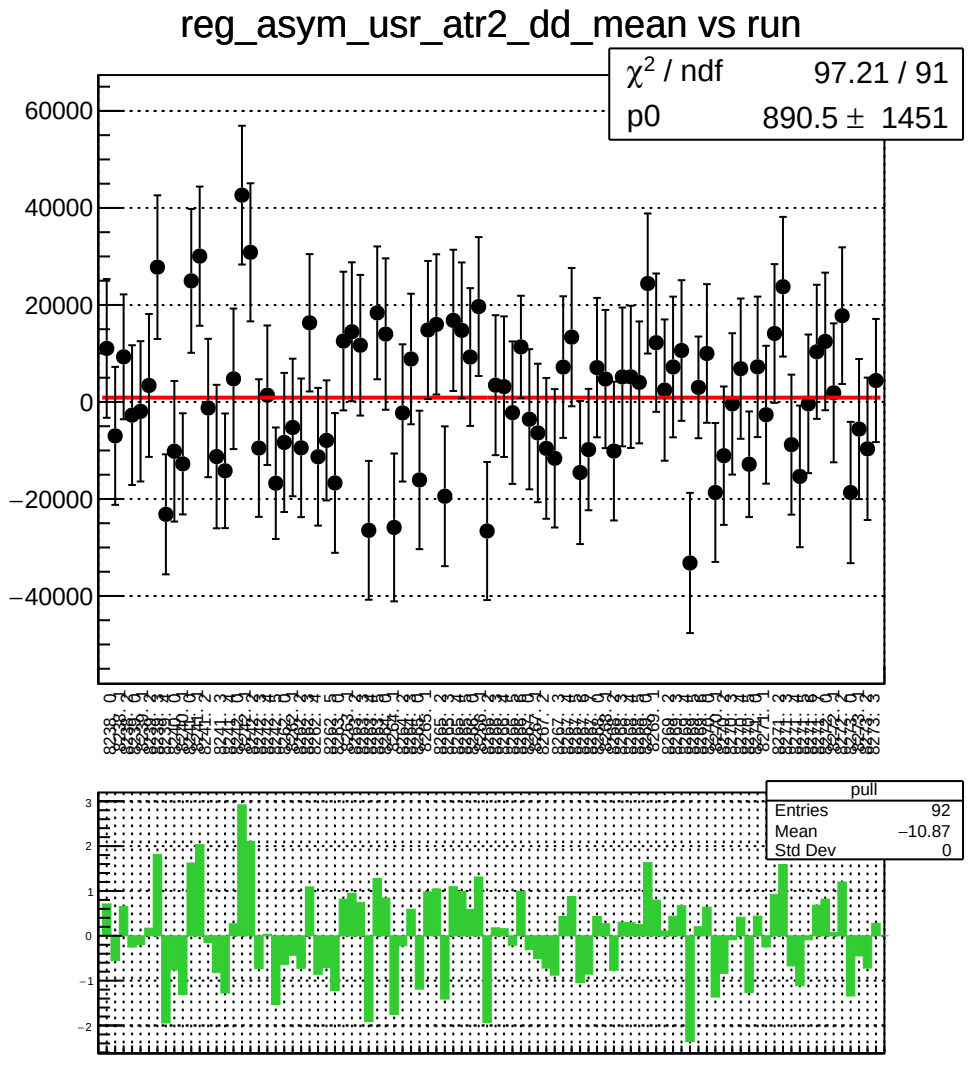

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.9 / 91
p0 0.1595 ± 0.2097
pull
Entries 92
Mean 40.46
Std Dev 0

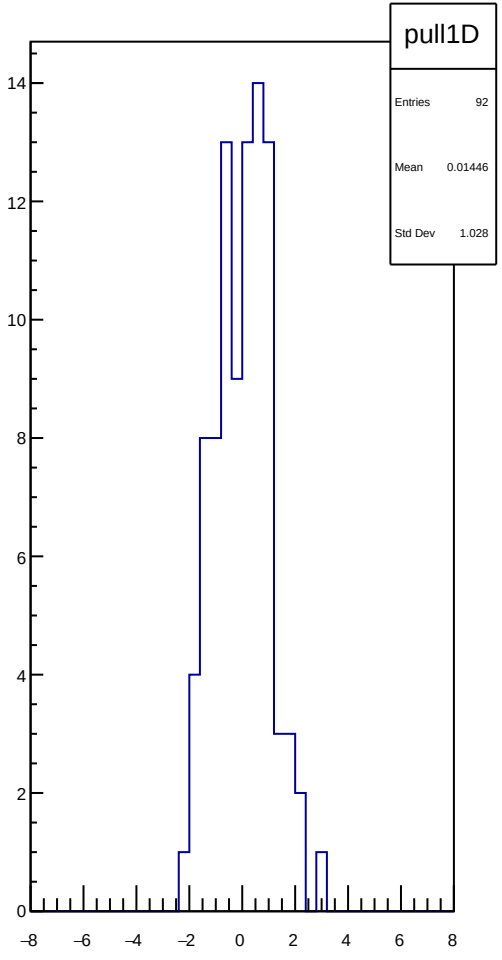

pull1D
Entries 92
Mean 0.01515
Std Dev 0.9491

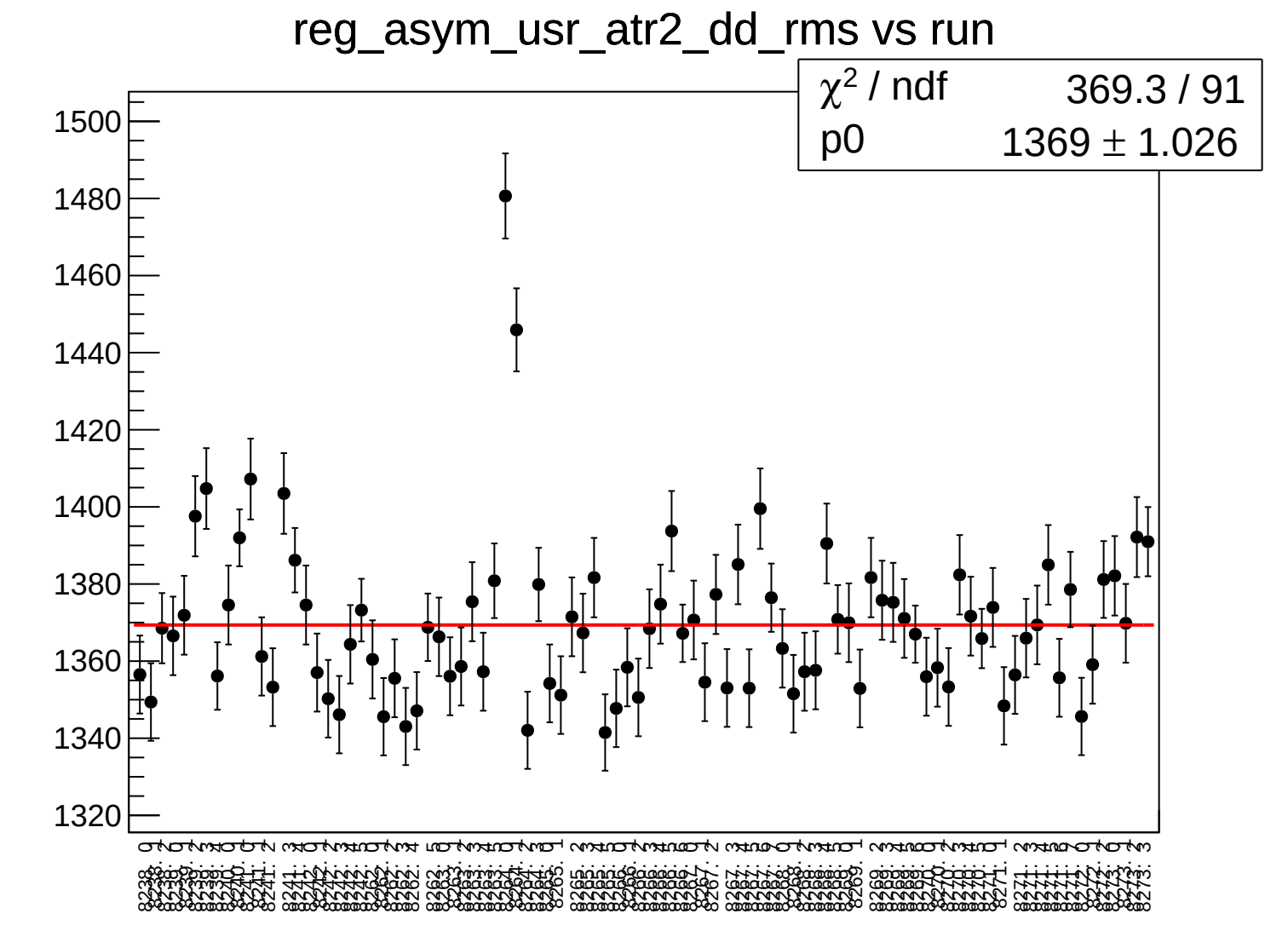

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.136e+04 / 91
p0 195.6 ± 0.1482
320
300
280
260
240
220
200
180
160
140
120

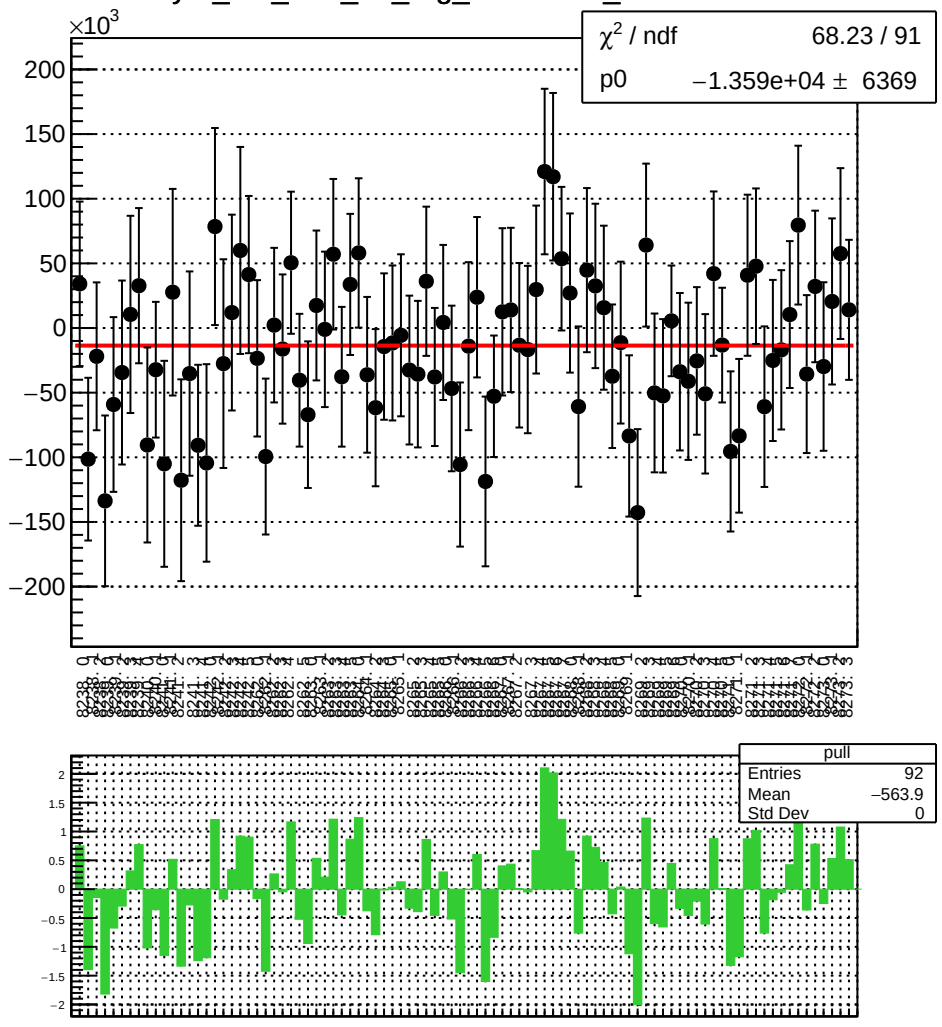

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 90.52 / 91
p0 2.588e−13 ± 6.921e−13
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 92
Mean 265.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.005027
Std Dev 0.9919
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

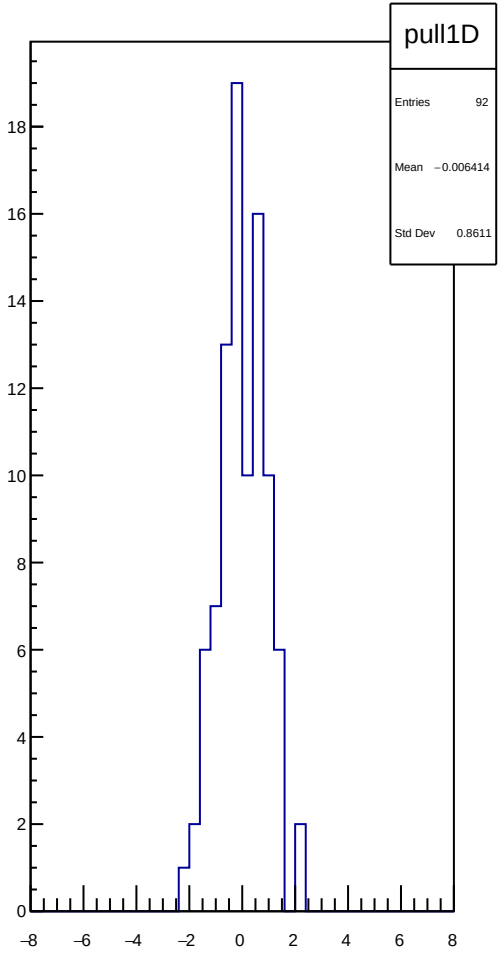

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.03e+05 / 91
p0 5.316e−10 ± 4.894e−13
5
4
3
2
1

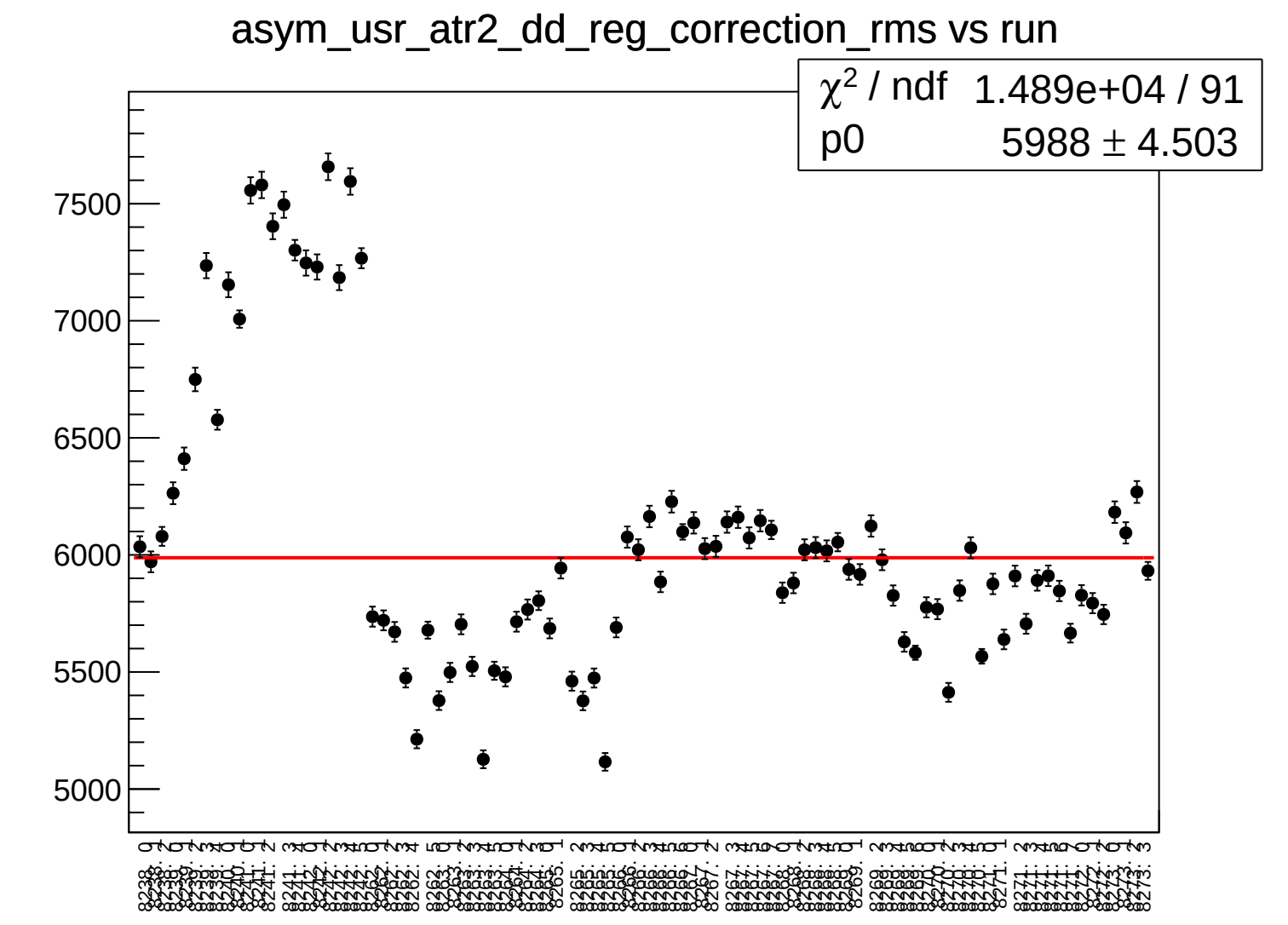

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 97.21 / 91
p0 890.5 ± 1451
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −10.87
Std Dev 0
3
2
1
0
−1
−2

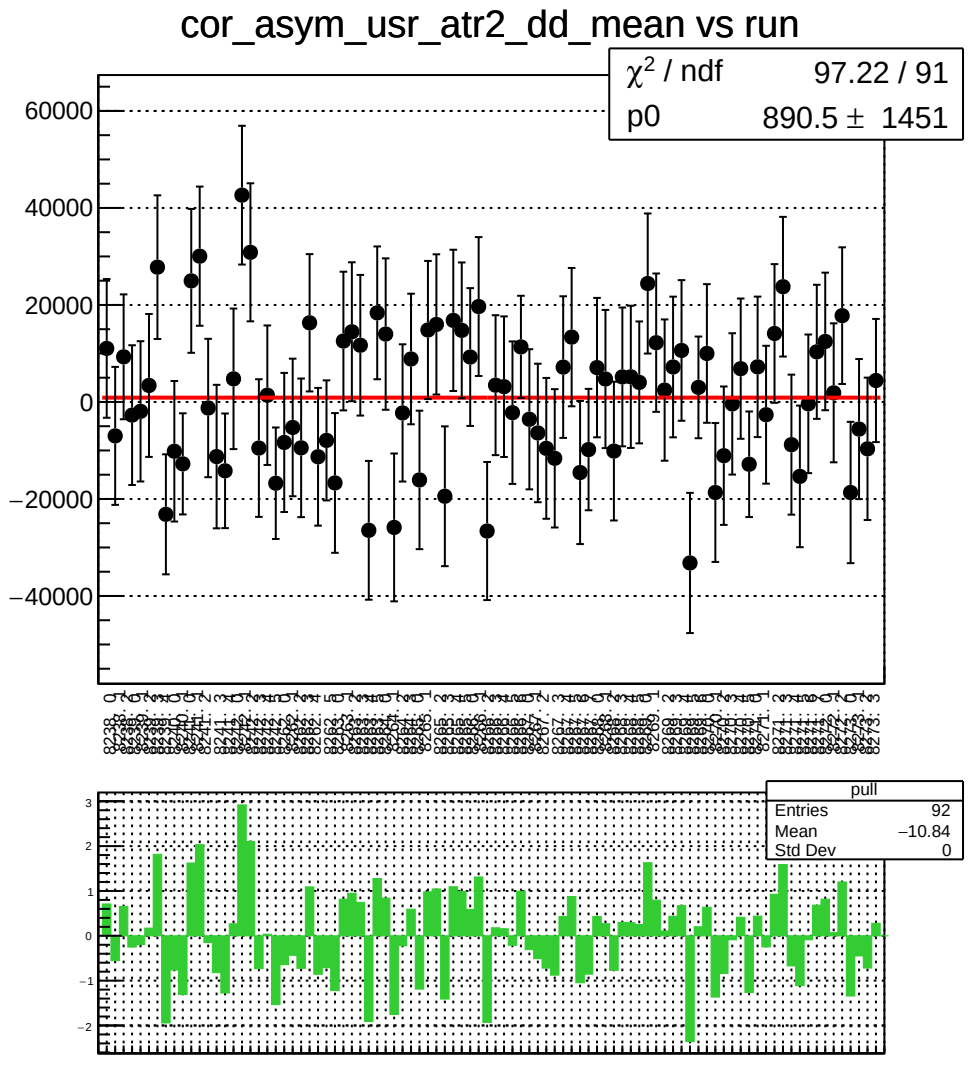

pull1D
Entries 92
Mean 0.01446
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

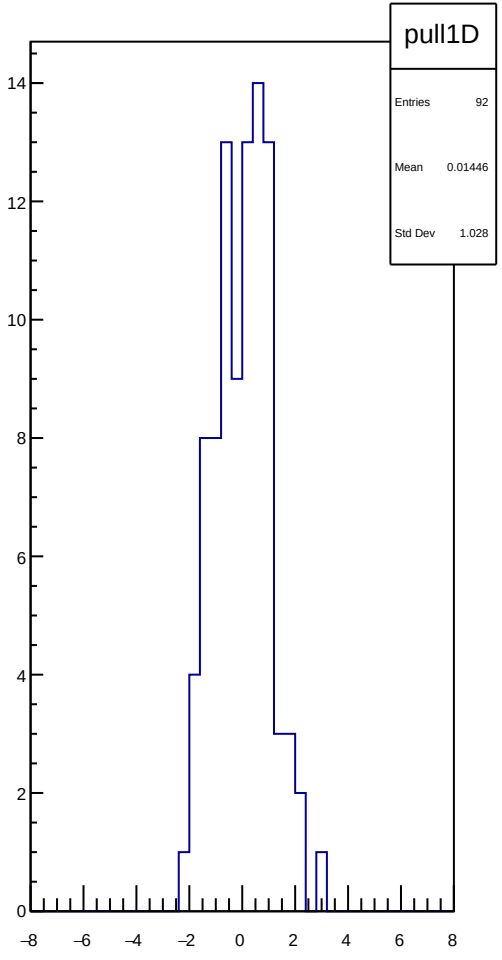

reg_asym_usr_atr2_dd_rms vs run
$\chi^2$ / ndf 369.3 / 91
p0 1369 ± 1.026
1500
1480
1460
1440
1420
1400
1380
1360
1340
1320

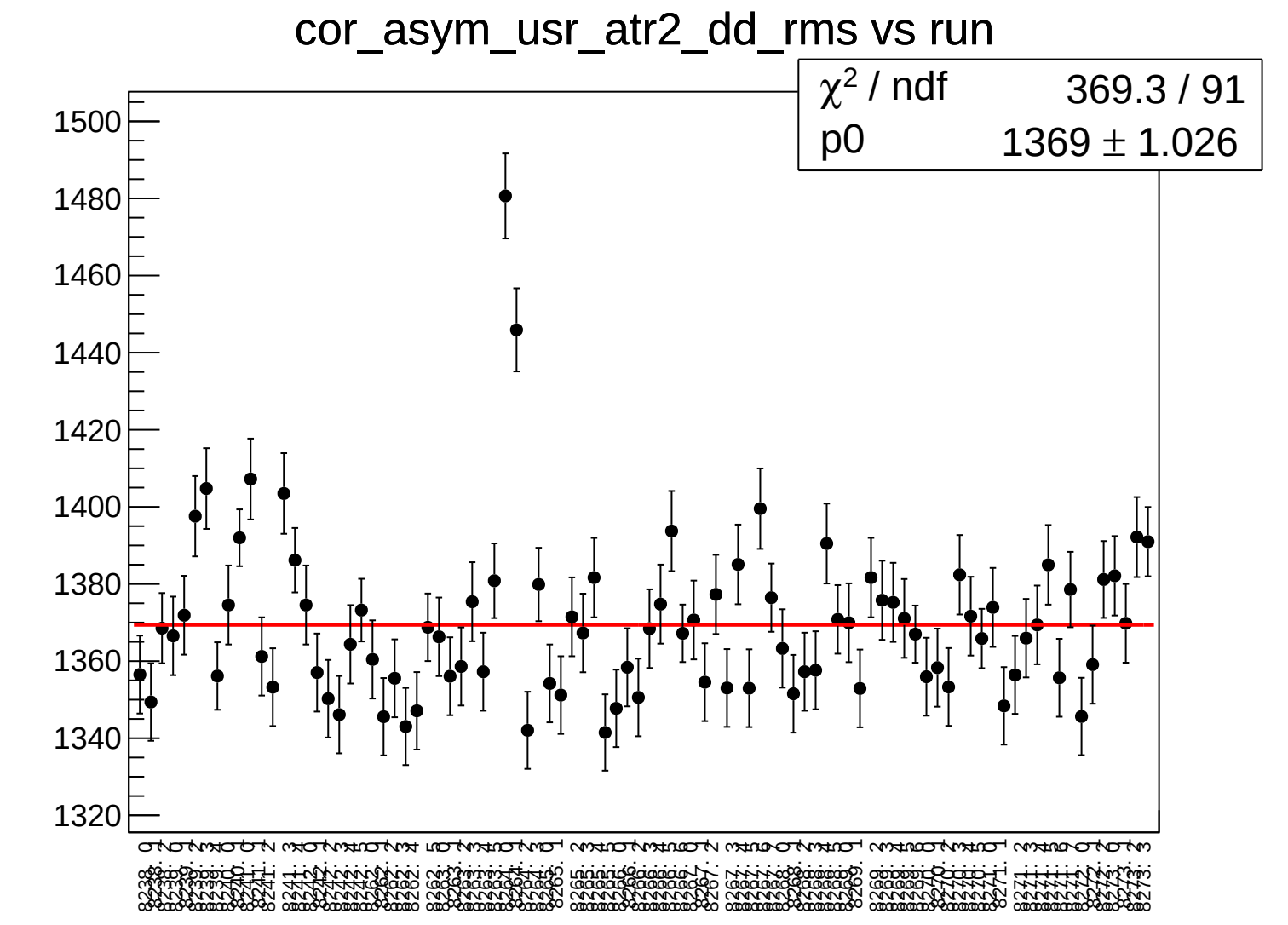

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 68.23 / 91
p0 −1.359e+04 ± 6369
pull
Entries 92
Mean −563.9
Std Dev 0

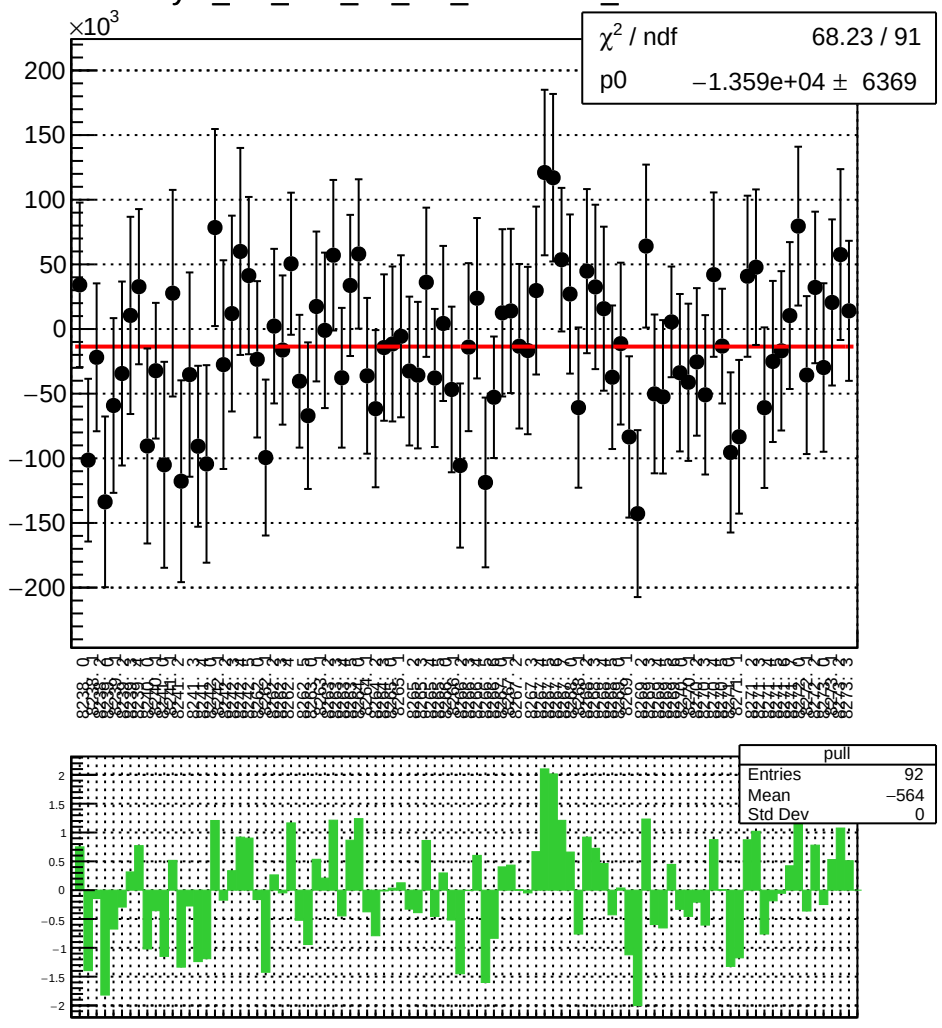

pull1D
Entries 92
Mean −0.006414
Std Dev 0.8611

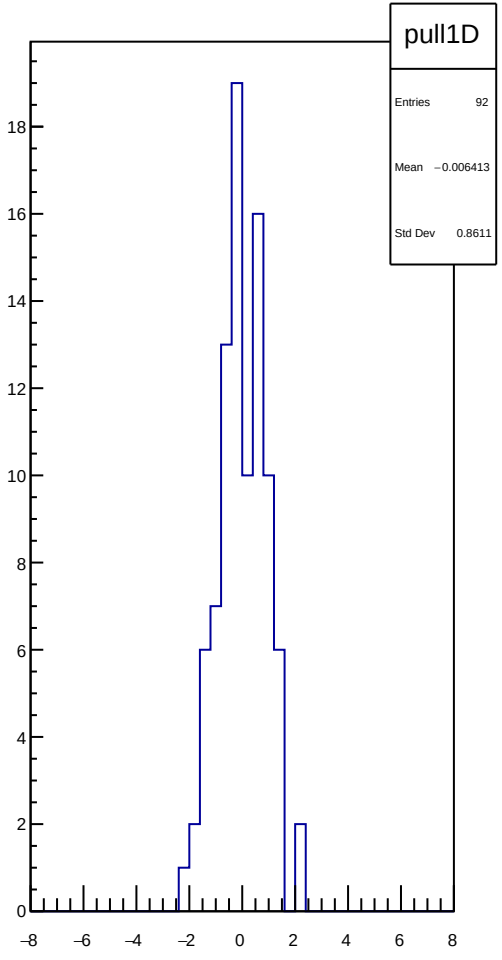

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 1.489e+04 / 91
p0 5988 ± 4.503
7500
7000
6500
6000
5500
5000

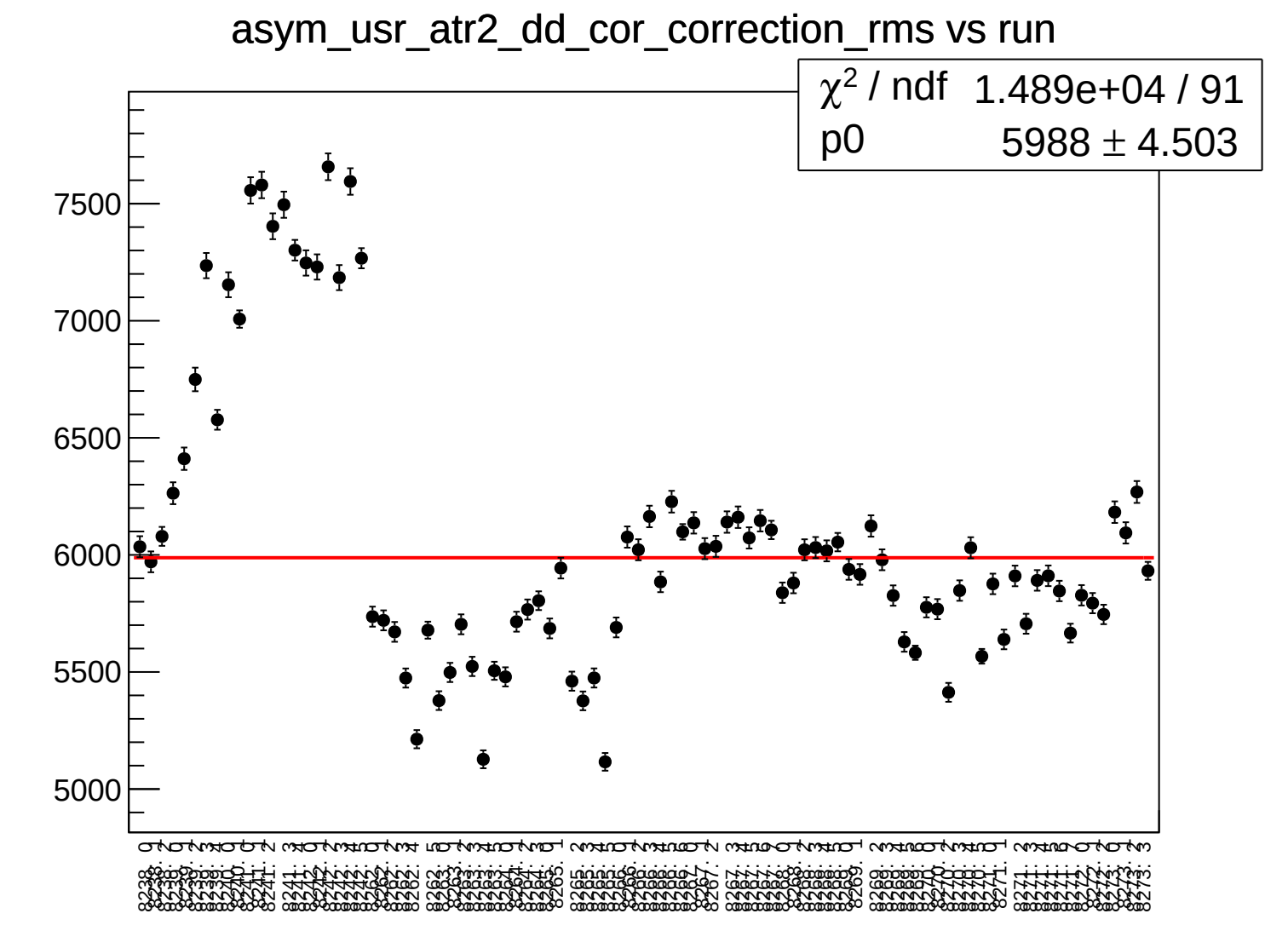

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 97.22 / 91
p0 890.5 ± 1451
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −10.84
Std Dev 0
3
2
1
0
−1
−2

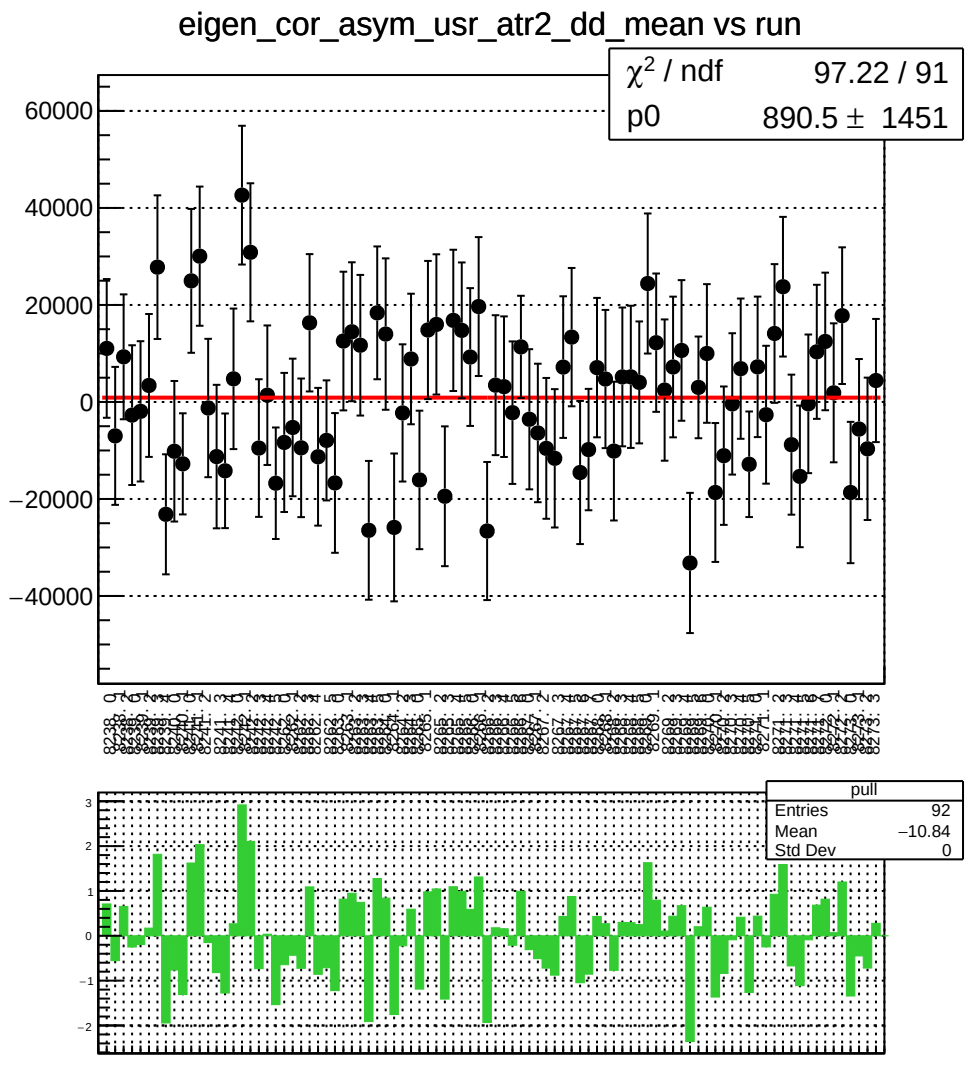

pull1D
Entries 92
Mean 0.01446
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

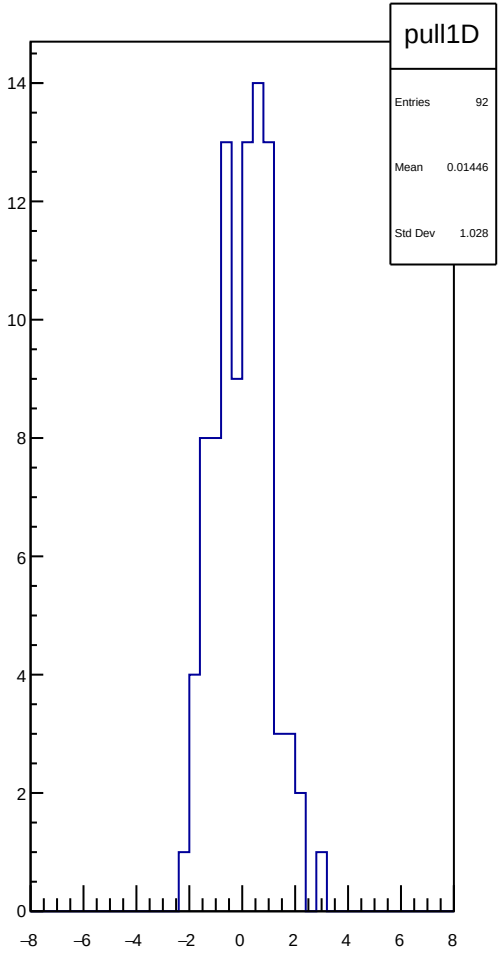

cor_asym_usr_atr2_dd_rms vs run
$\chi^2$ / ndf 369.3 / 91
p0 1369 ± 1.026
1500
1480
1460
1440
1420
1400
1380
1360
1340
1320

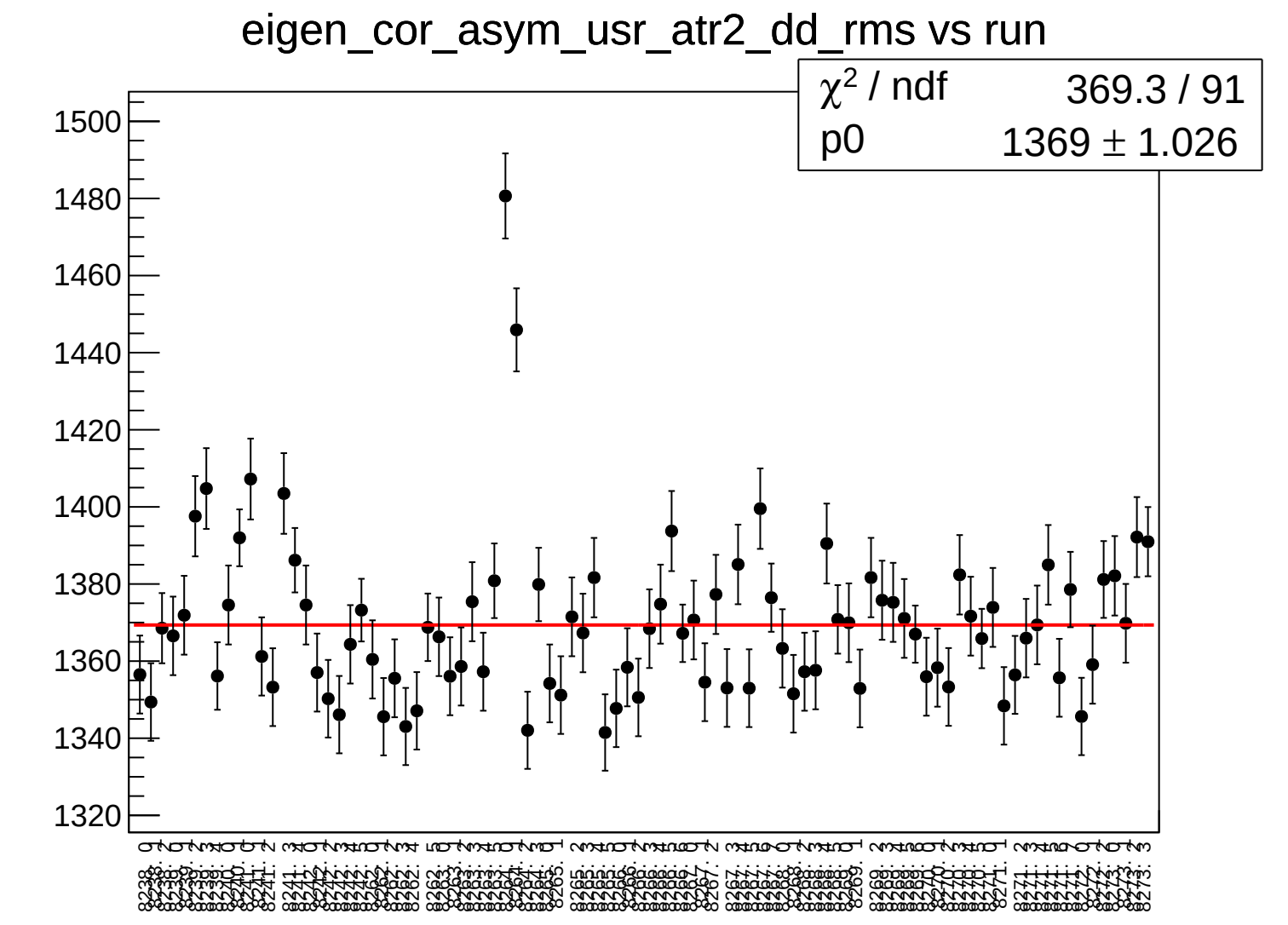

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 68.23 / 91
p0 −1.359e+04 ± 6369
pull
Entries 92
Mean −564
Std Dev 0

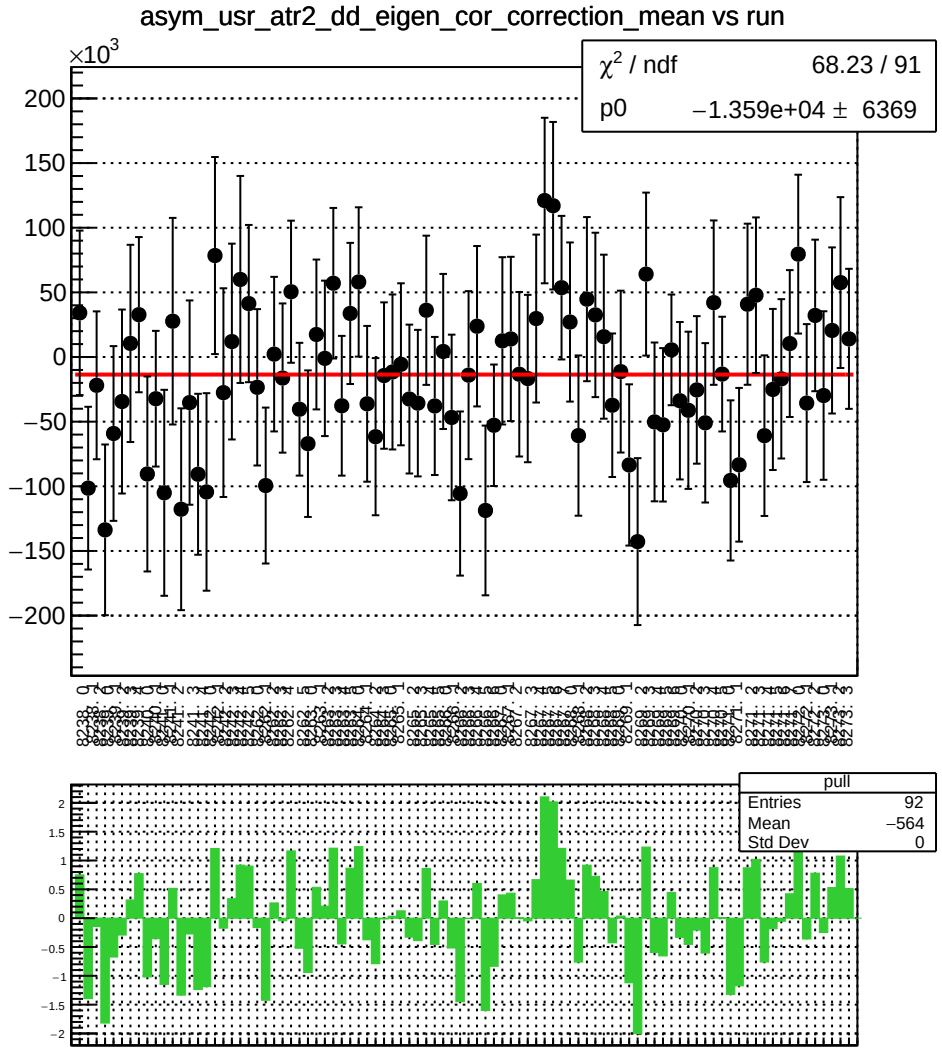

pull1D
Entries 92
Mean −0.006413
Std Dev 0.8611

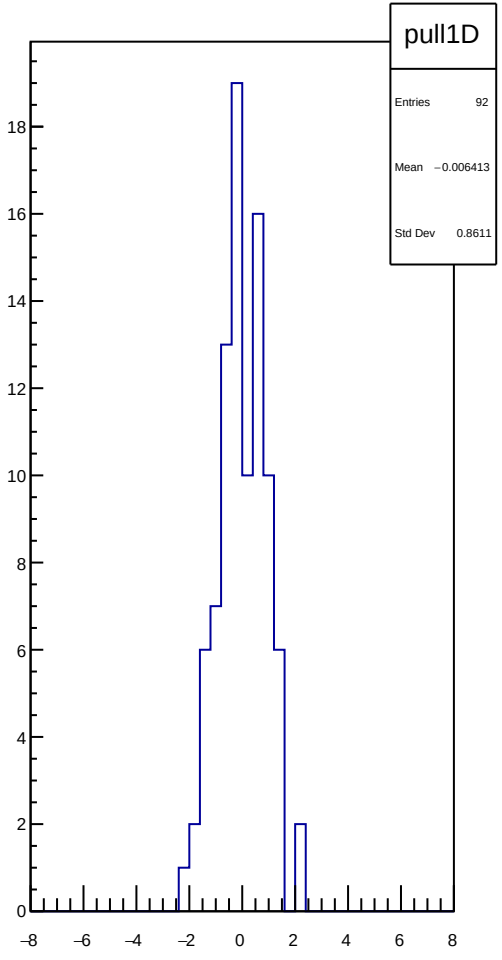

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 1.489e+04 / 91
p0 5988 ± 4.503
7500
7000
6500
6000
5500
5000

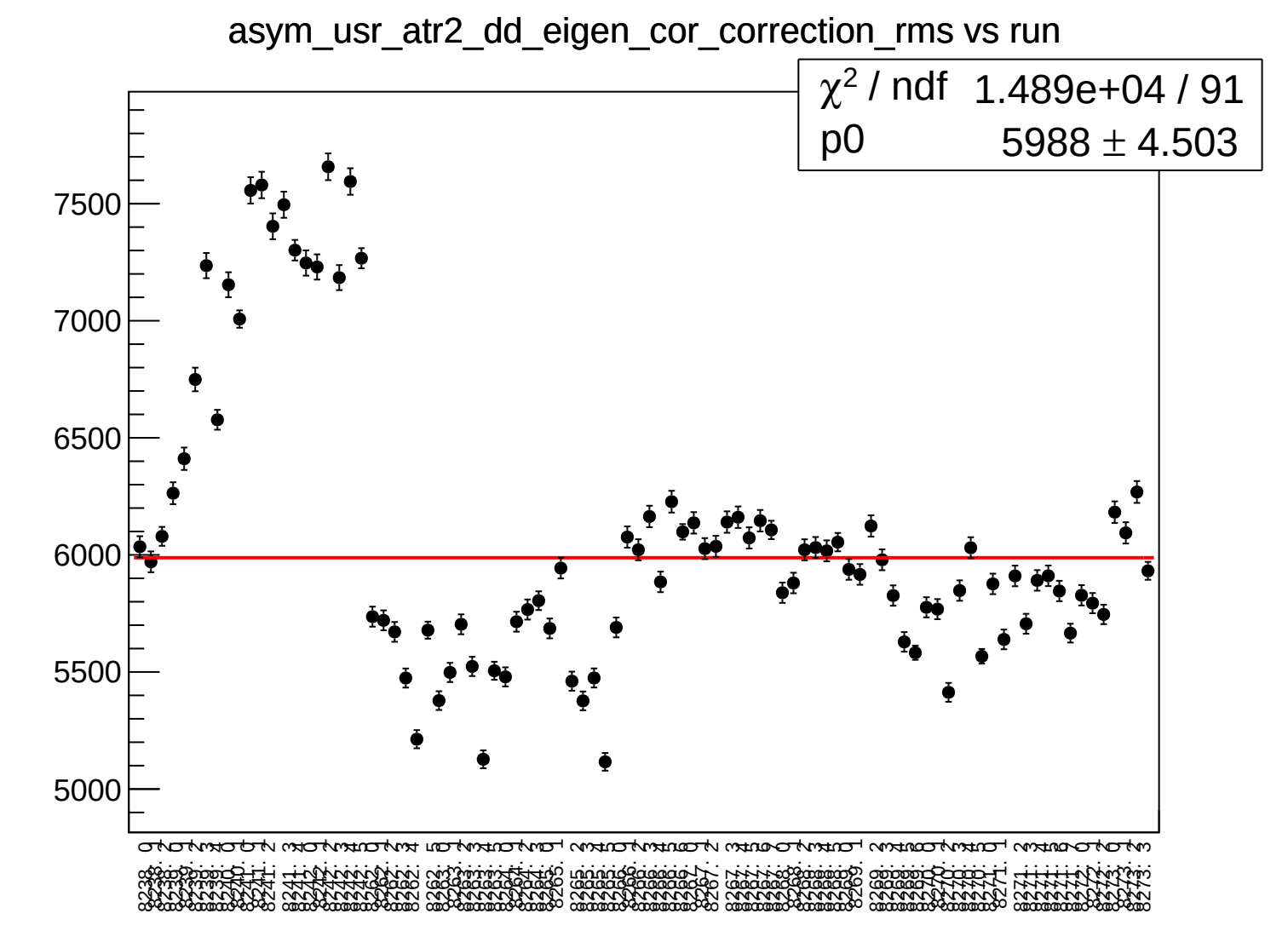

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 97.22 / 91
p0 890.5 ± 1451
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −10.84
Std Dev 0
3
2
1
0
−1
−2

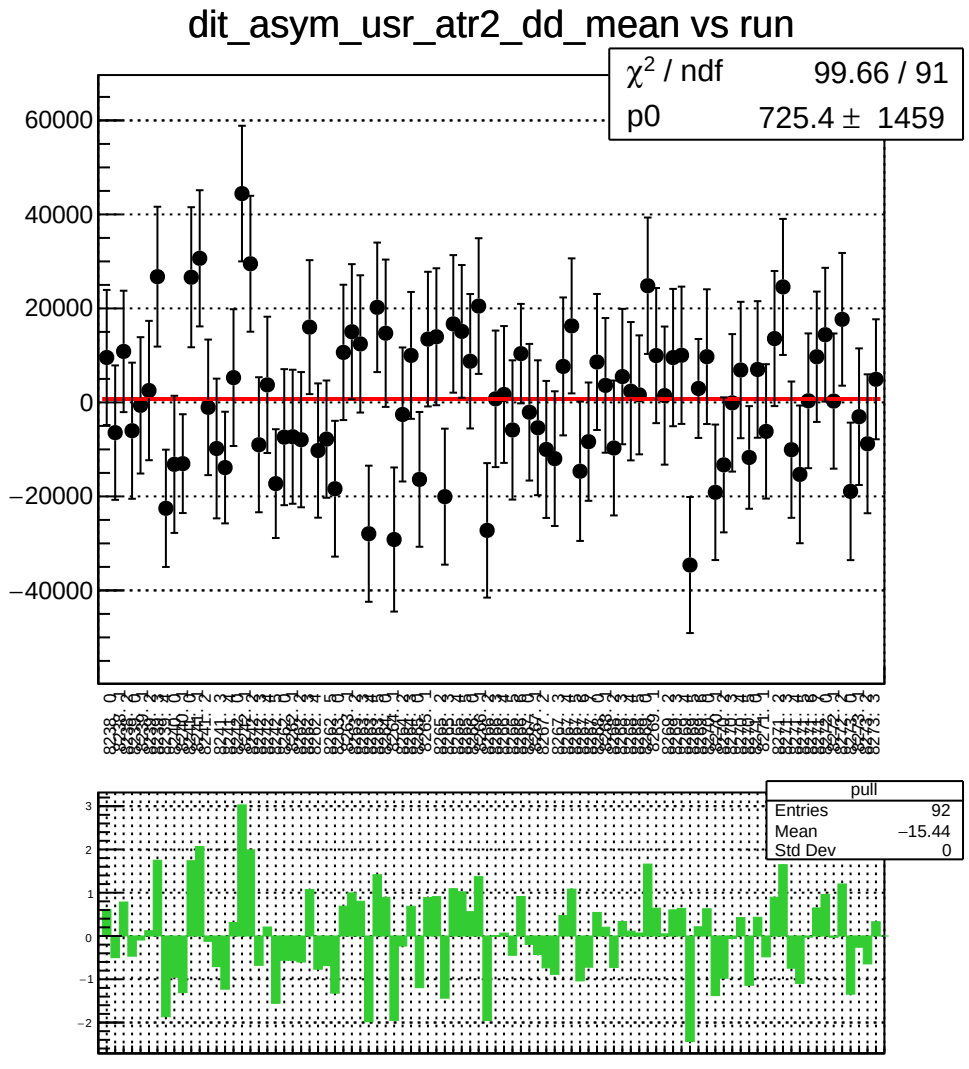

pull1D
Entries 92
Mean 0.01446
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

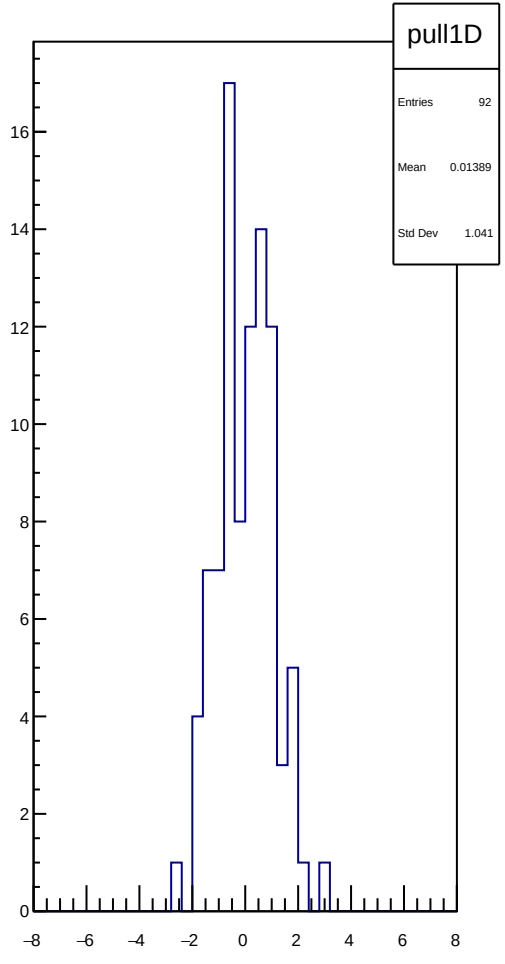

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 369.3 / 91
p0 1369 ± 1.026
1500
1480
1460
1440
1420
1400
1380
1360
1340
1320

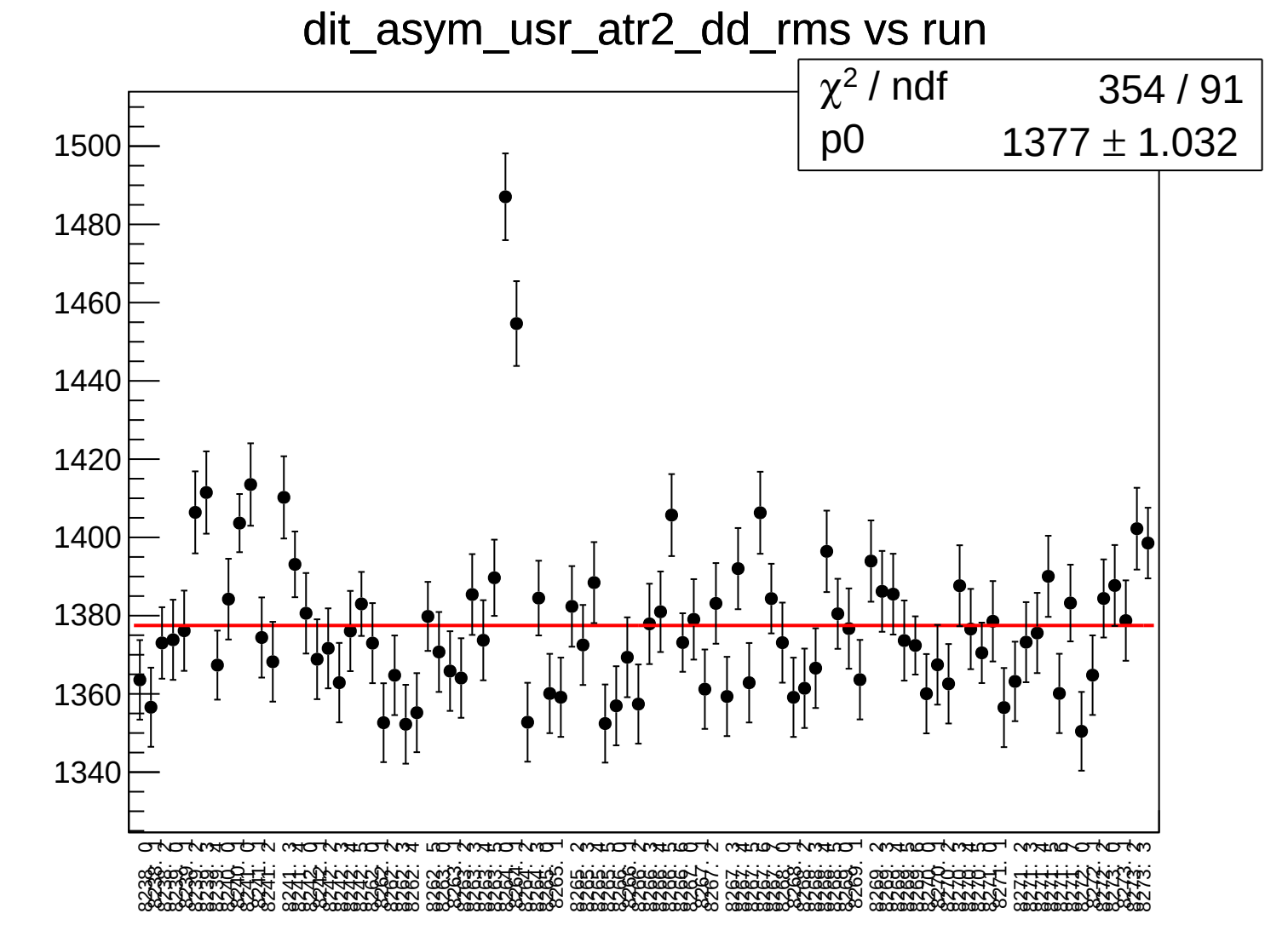

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 68.23 / 91
p0 −1.359e+04 ± 6369
pull
Entries 92
Mean −564
Std Dev 0

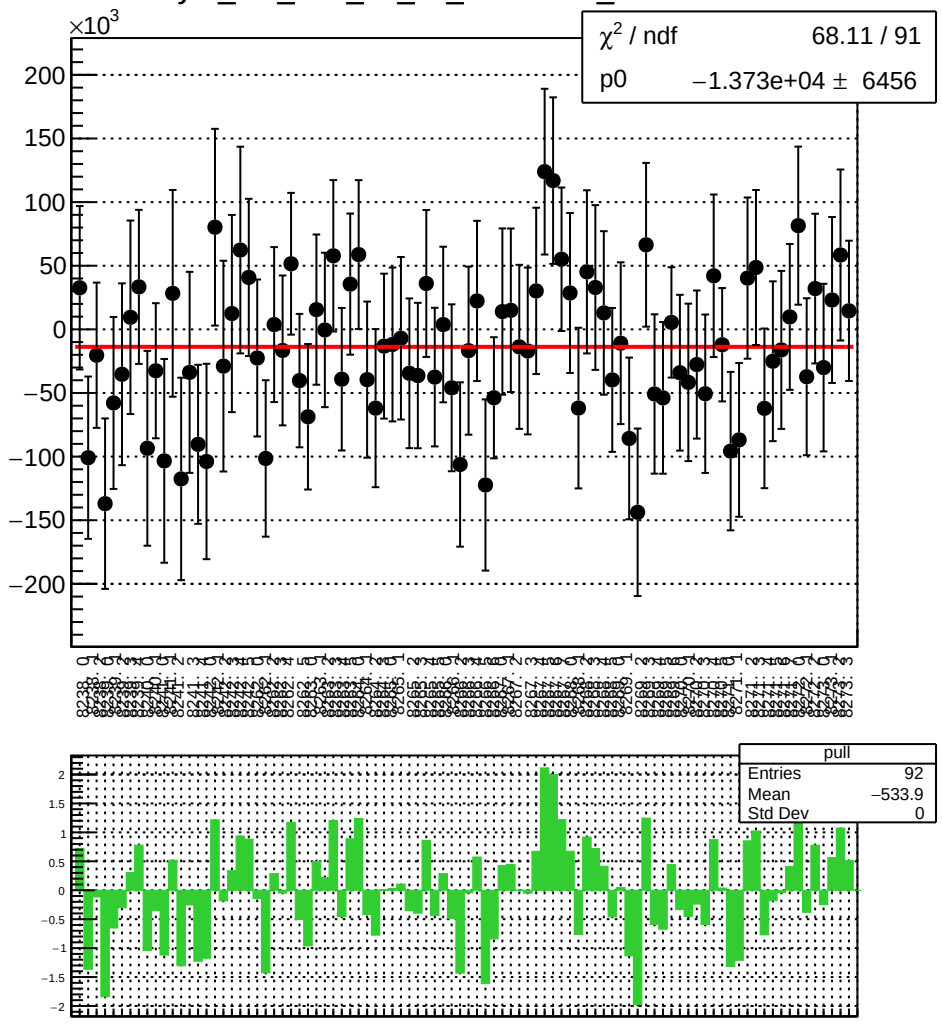

pull1D
Entries 92
Mean −0.006413
Std Dev 0.8611

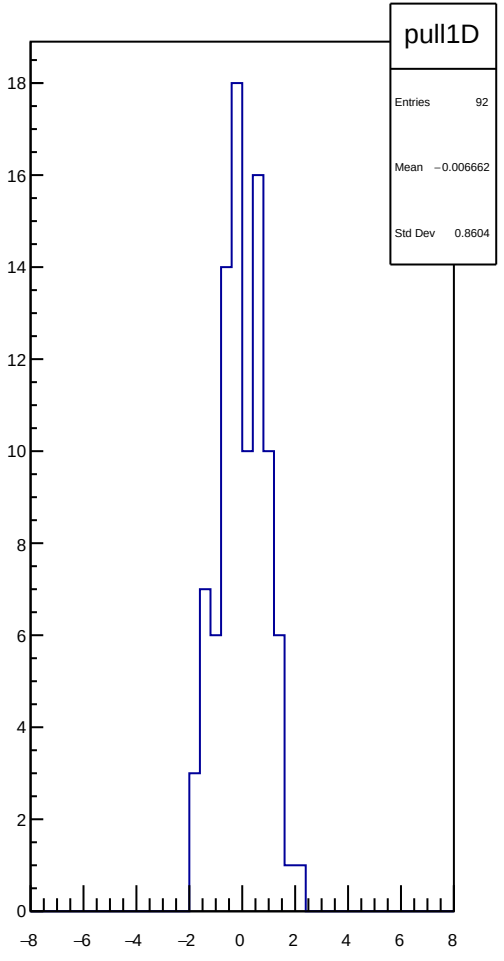

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.489e+04 / 91
p0 5988 ± 4.503
7500
7000
6500
6000
5500
5000

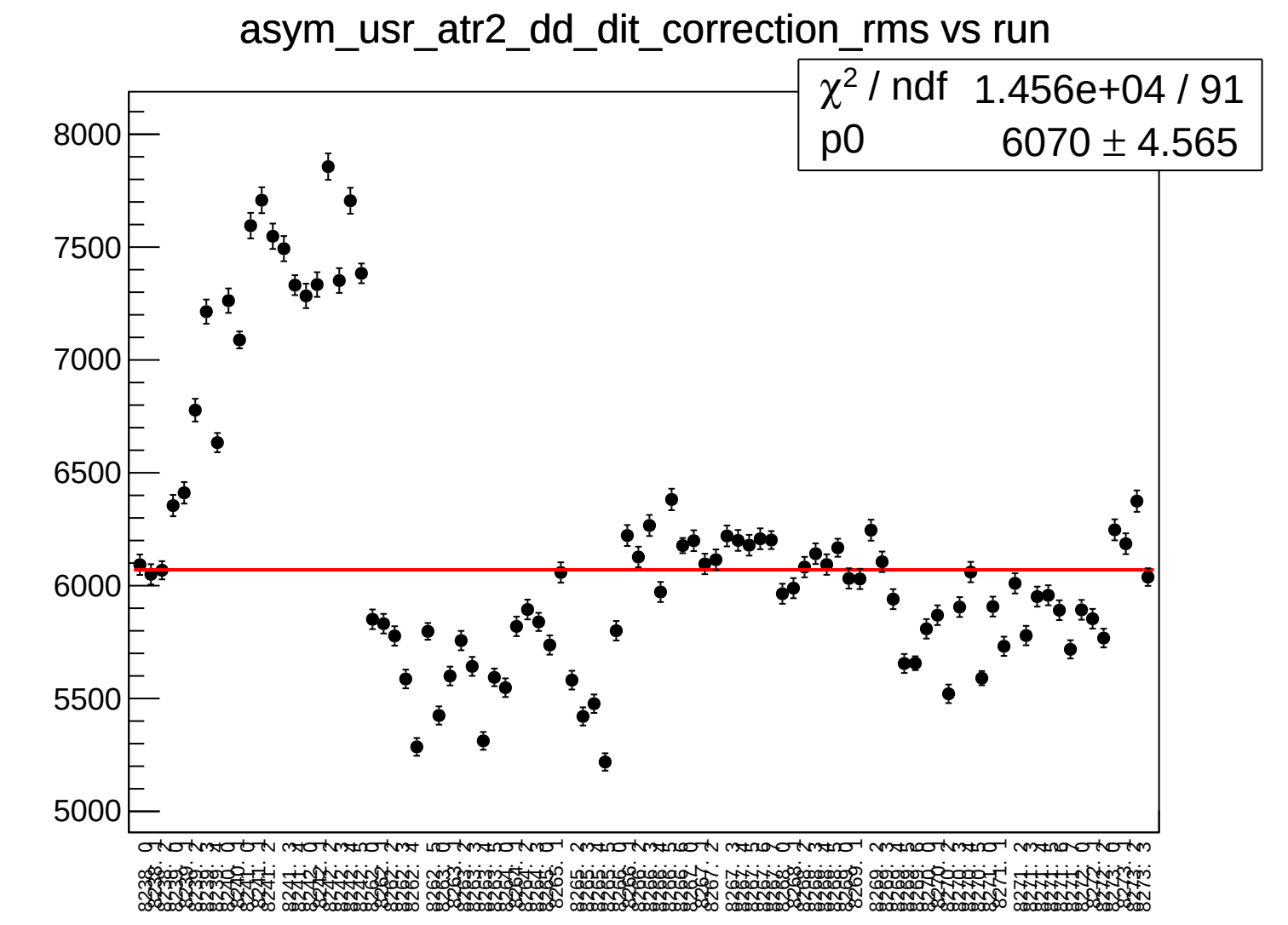

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 99.66 / 91
p0 725.4 ± 1459
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −15.44
Std Dev 0
3
2
1
0
−1
−2

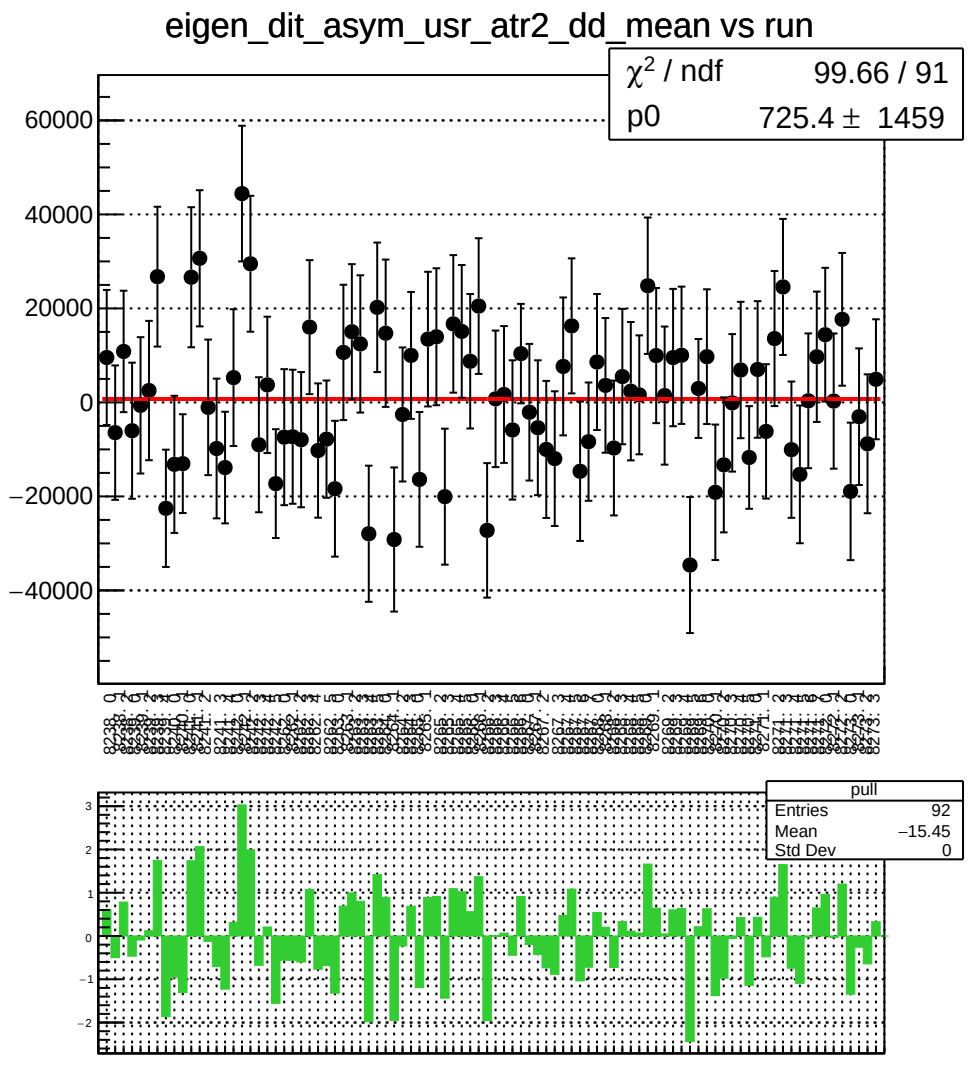

pull1D
Entries 92
Mean 0.01389
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

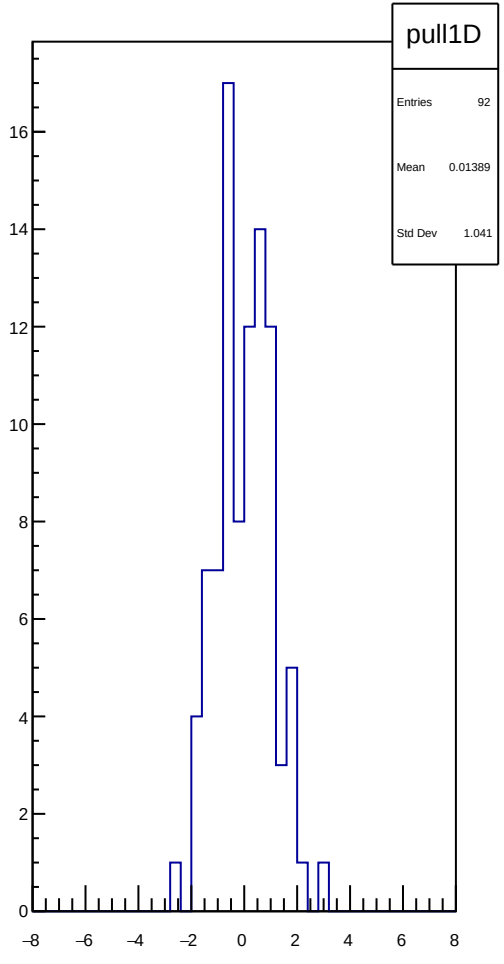

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 354 / 91
p0 1377 ± 1.032
1500
1480
1460
1440
1420
1400
1380
1360
1340

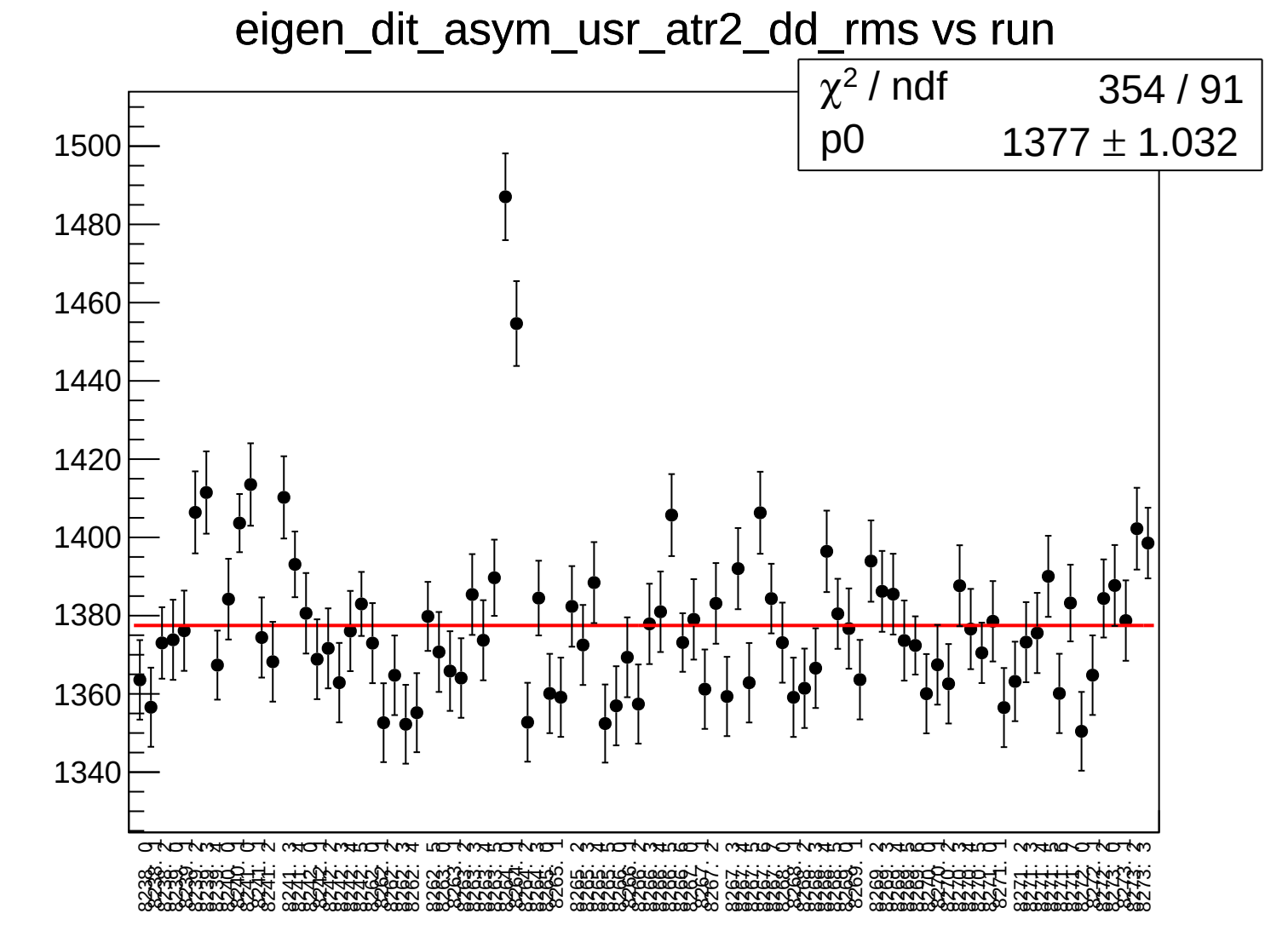

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 68.11 / 91
p0 −1.373e+04 ± 6456
pull
Entries 92
Mean −533.9
Std Dev 0

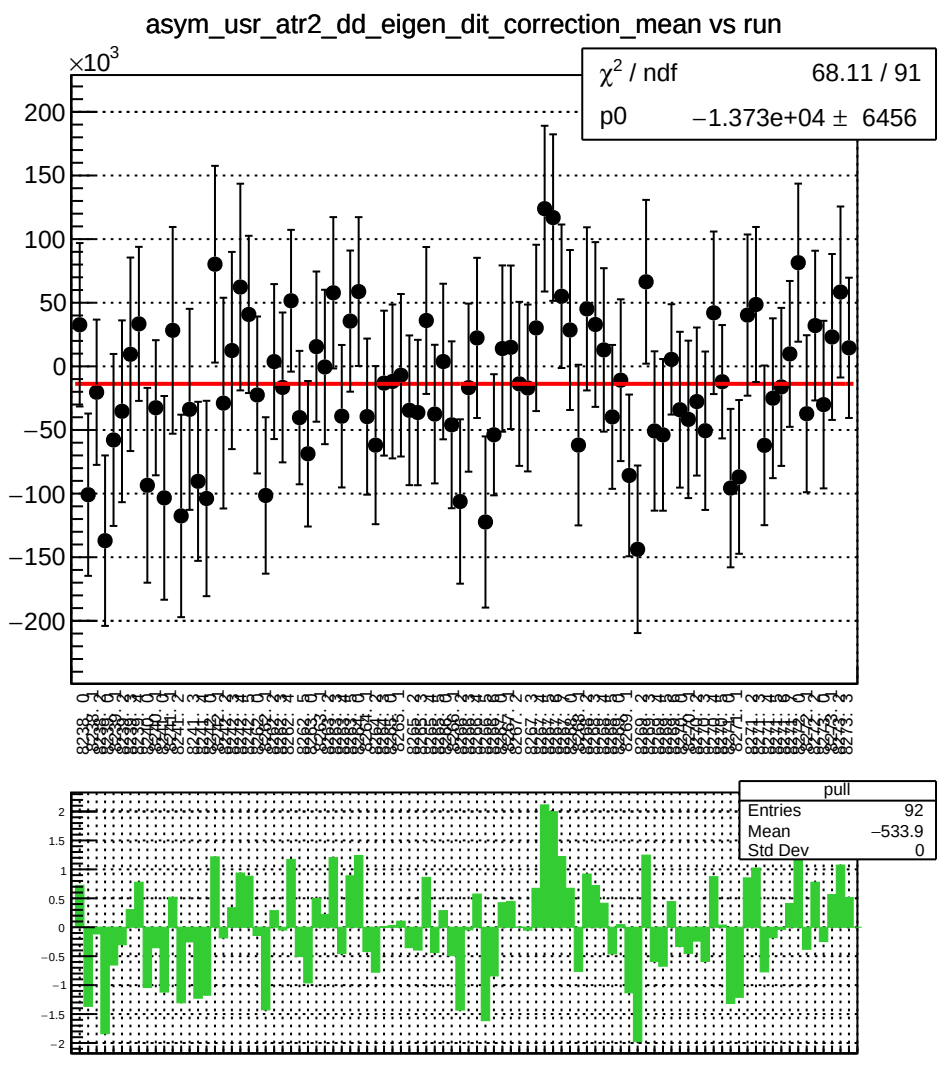

pull1D
Entries 92
Mean −0.006662
Std Dev 0.8604

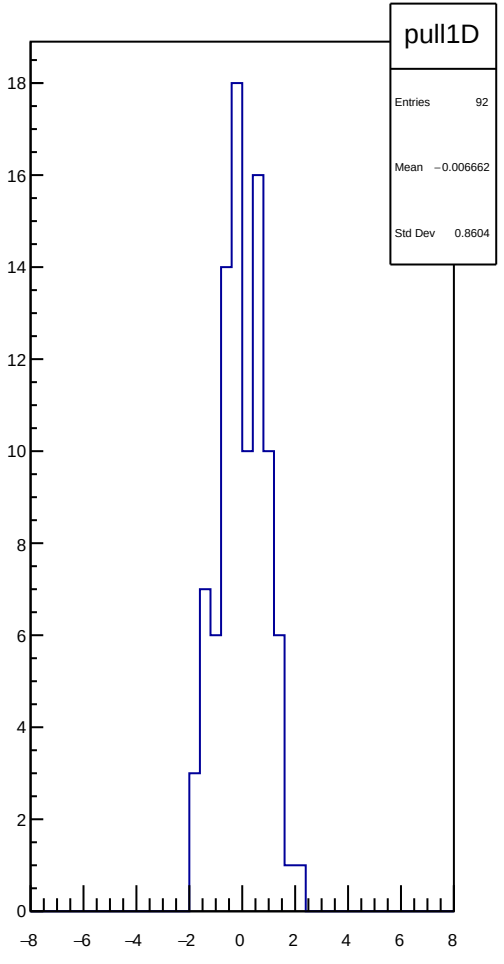

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 1.456e+04 / 91
p0 6070 ± 4.565
8000
7500
7000
6500
6000
5500
5000

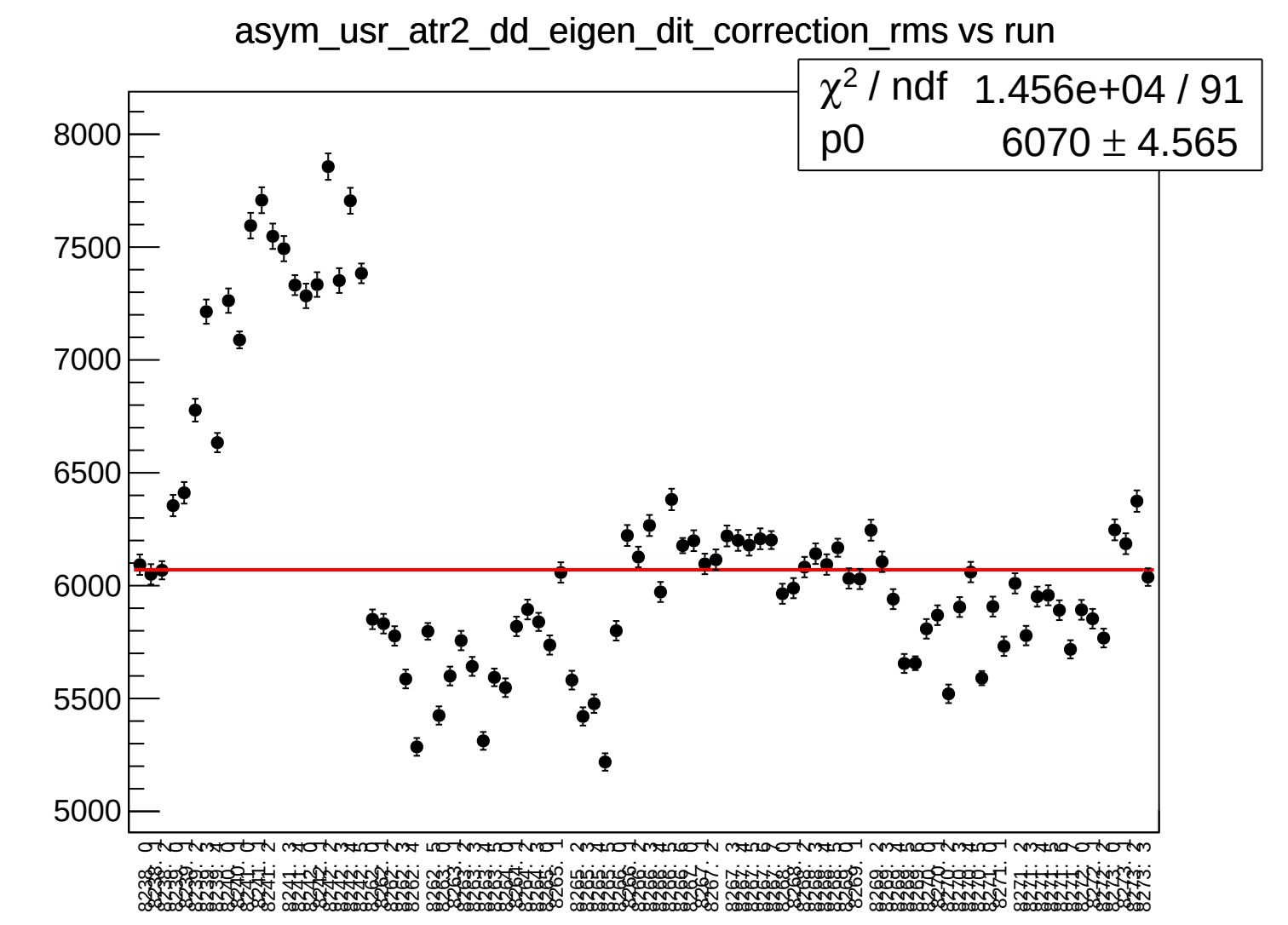

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 99.66 / 91
p0 725.4 ± 1459
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −15.45
Std Dev 0
3
2
1
0
−1
−2

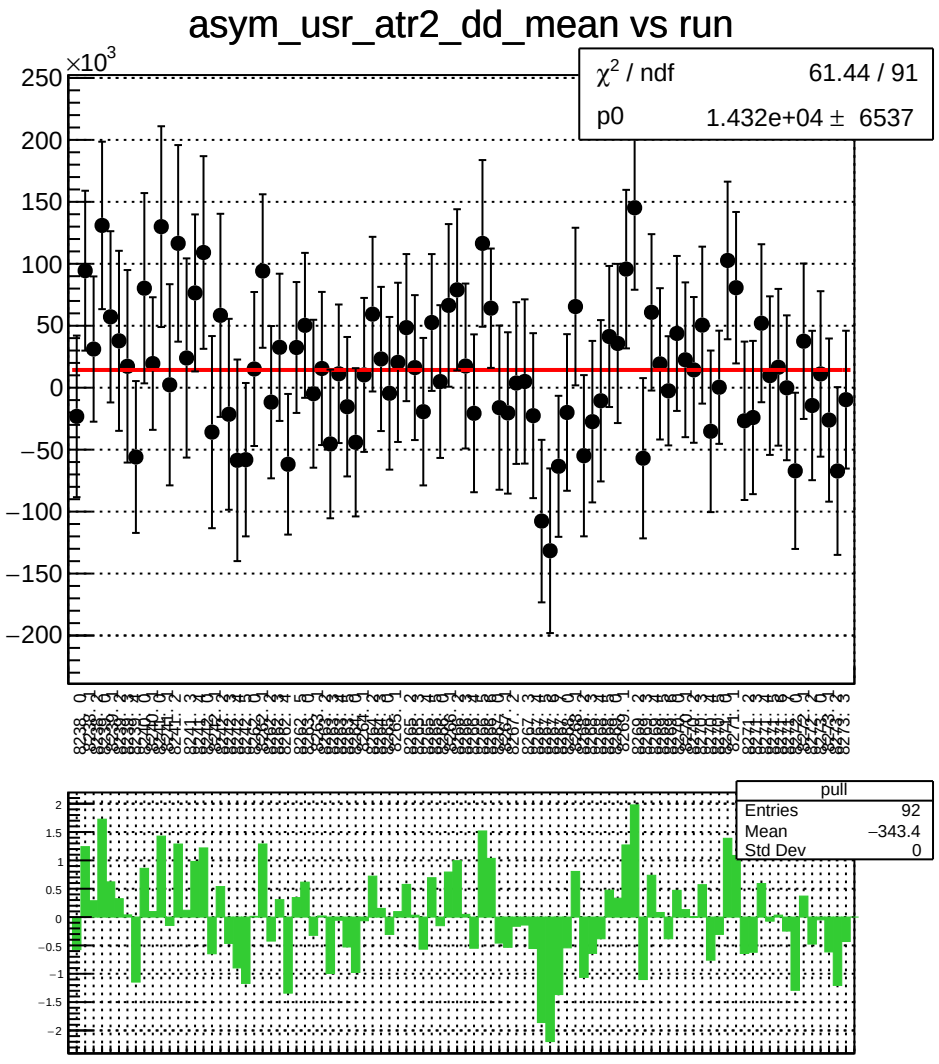

pull1D
Entries 92
Mean 0.01389
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

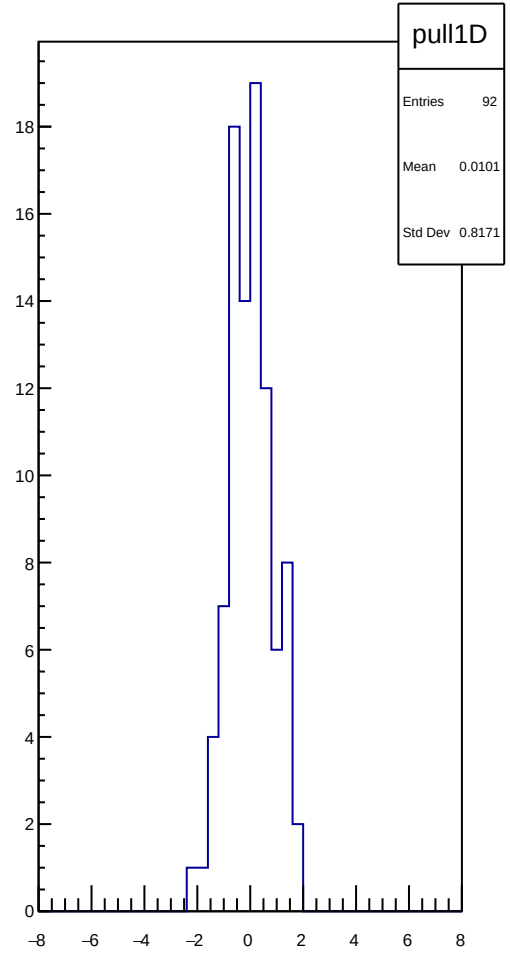

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 354 / 91
p0 1377 ± 1.032
1500
1480
1460
1440
1420
1400
1380
1360
1340

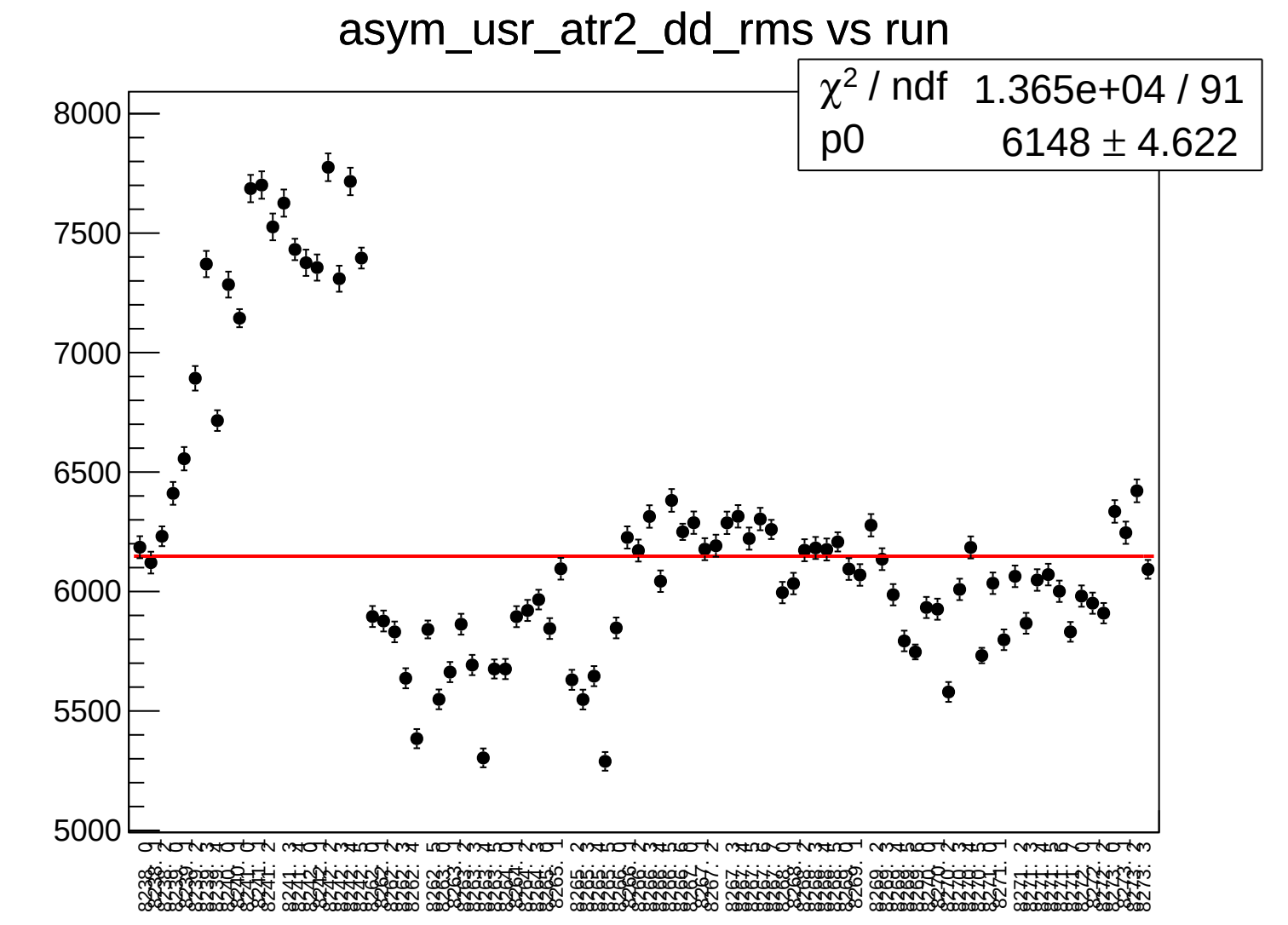

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.11 / 91
p0 −1.373e+04 ± 6456
pull
Entries 92
Mean −533.9
Std Dev 0

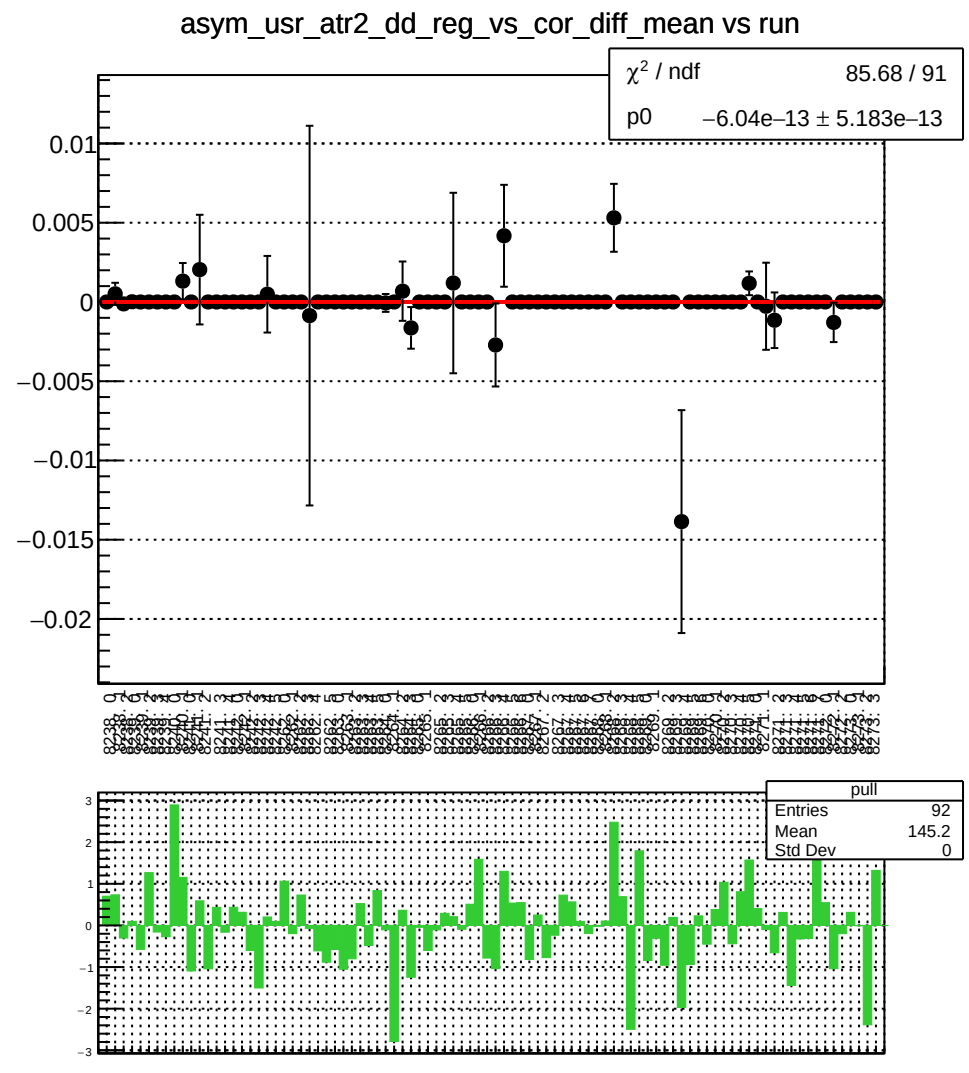

pull1D
Entries 92
Mean −0.006662
Std Dev 0.8604

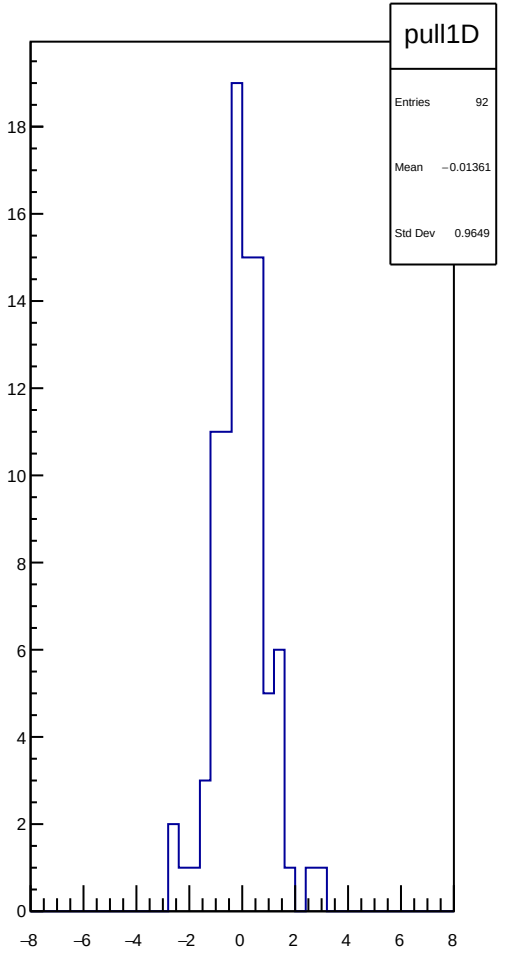

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.456e+04 / 91
p0 6070 ± 4.565
8000
7500
7000
6500
6000
5500
5000

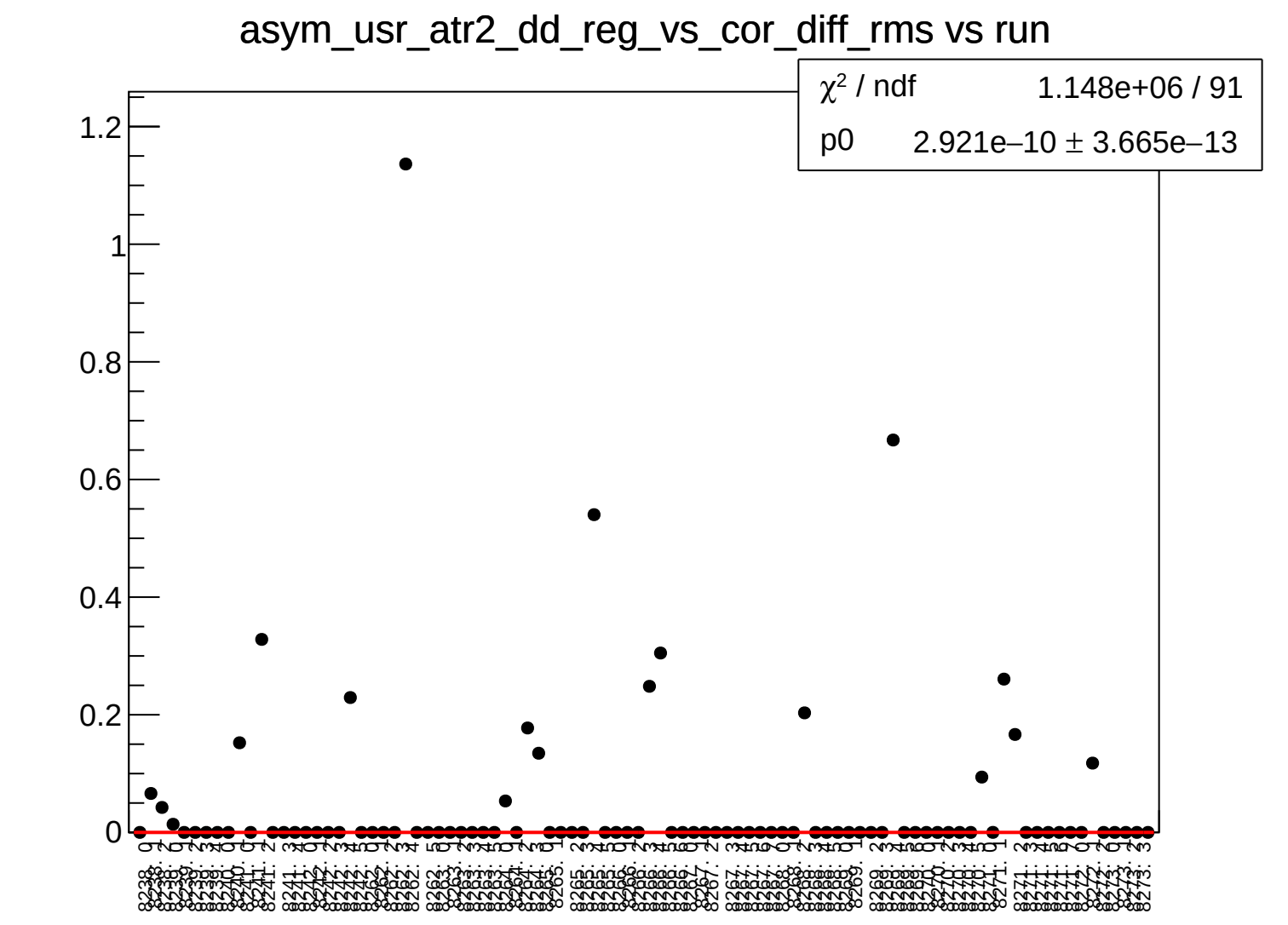

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 61.44 / 91
p0 1.432e+04 ± 6537
pull
Entries 92
Mean −343.4
Std Dev 0

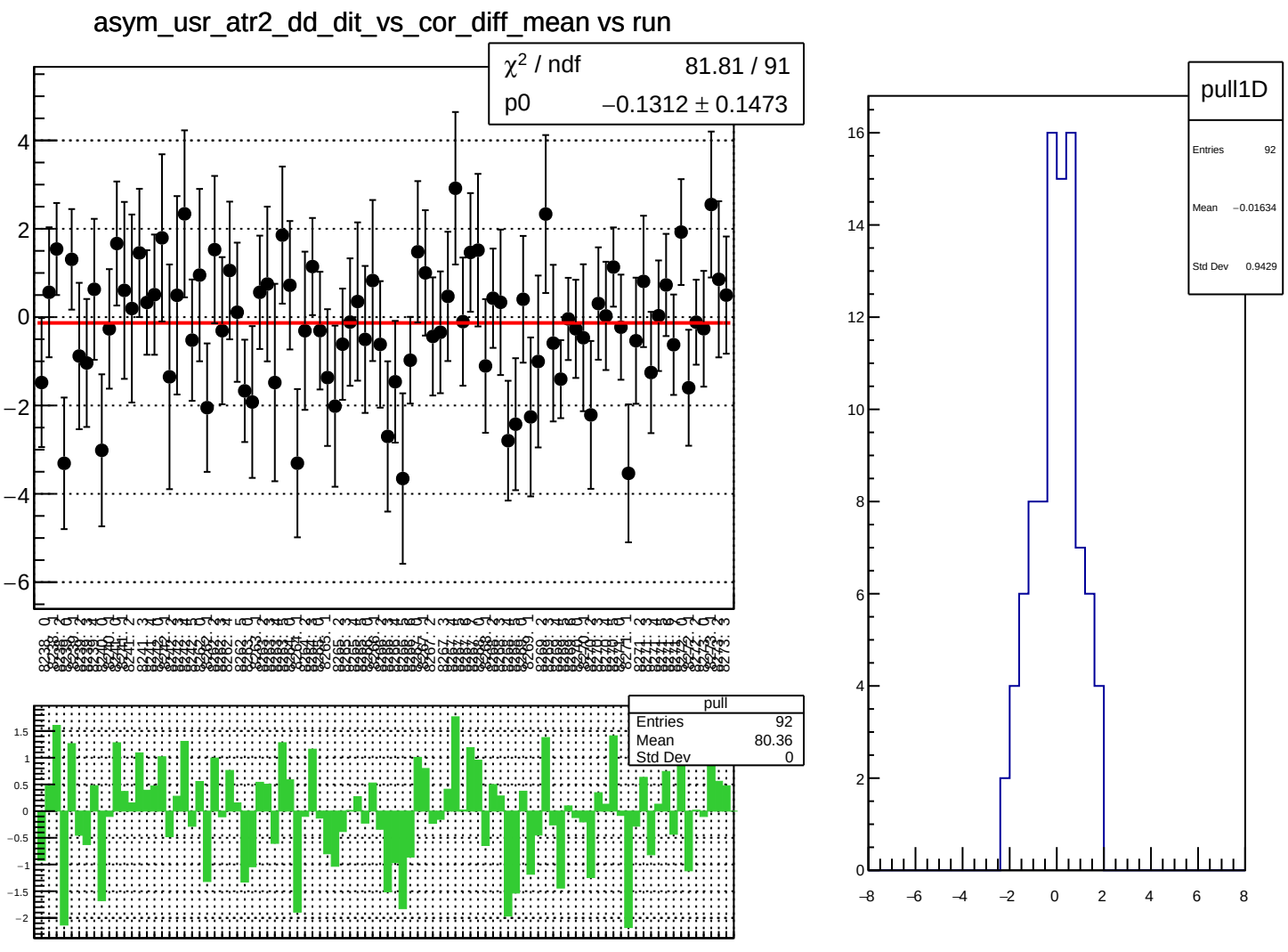

pull1D
Entries 92
Mean 0.0101
Std Dev 0.8171

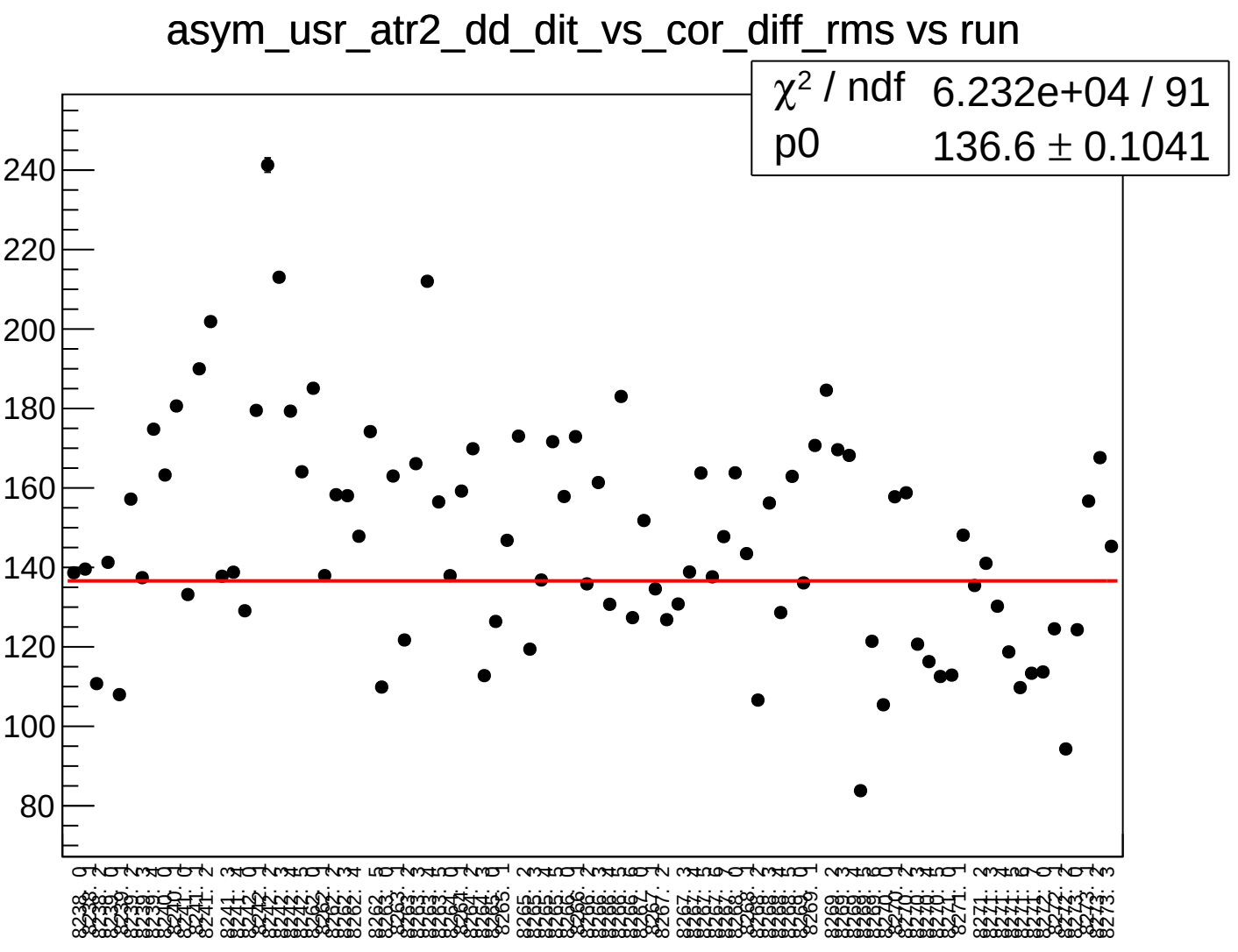

asym_usr_atr2_dd_rms vs run
χ² / ndf 1.365e+04 / 91
p0 6148 ± 4.622
8000
7500
7000
6500
6000
5500
5000

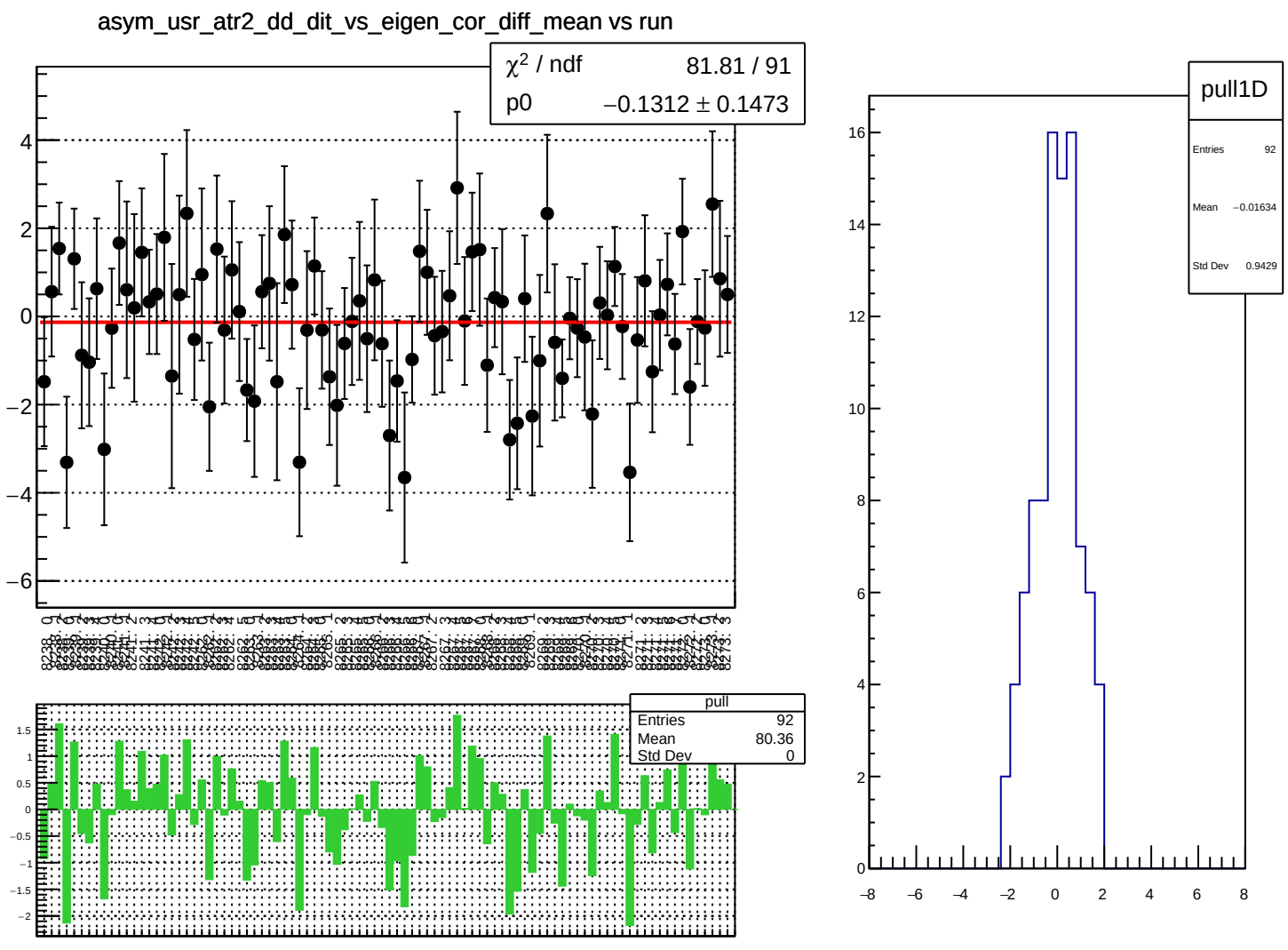

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.68 / 91
p0 −6.04e−13 ± 5.183e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 92
Mean 145.2
Std Dev 0
3
2
1
0
−1
−2
−3

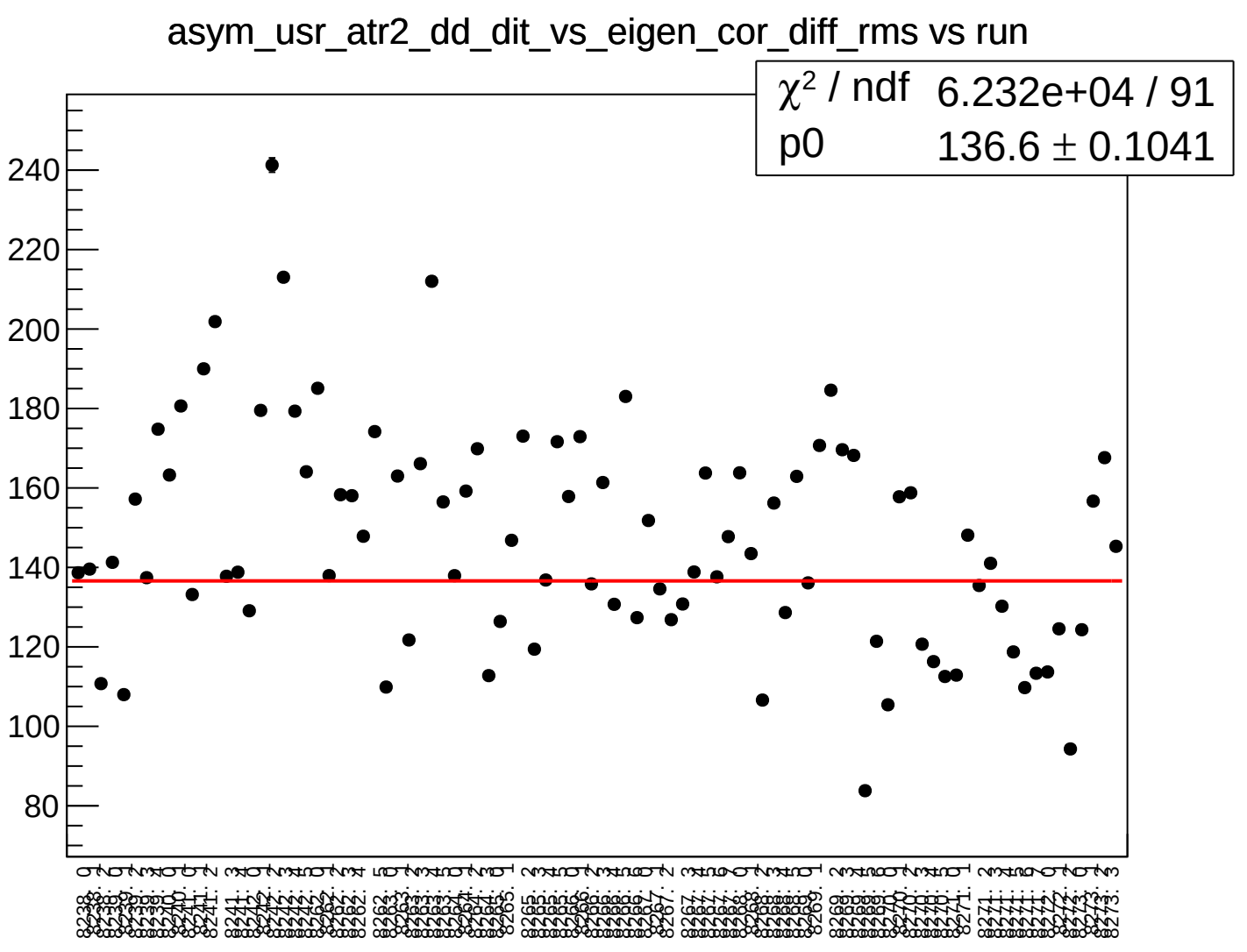

pull1D
Entries 92
Mean −0.01361
Std Dev 0.9649
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

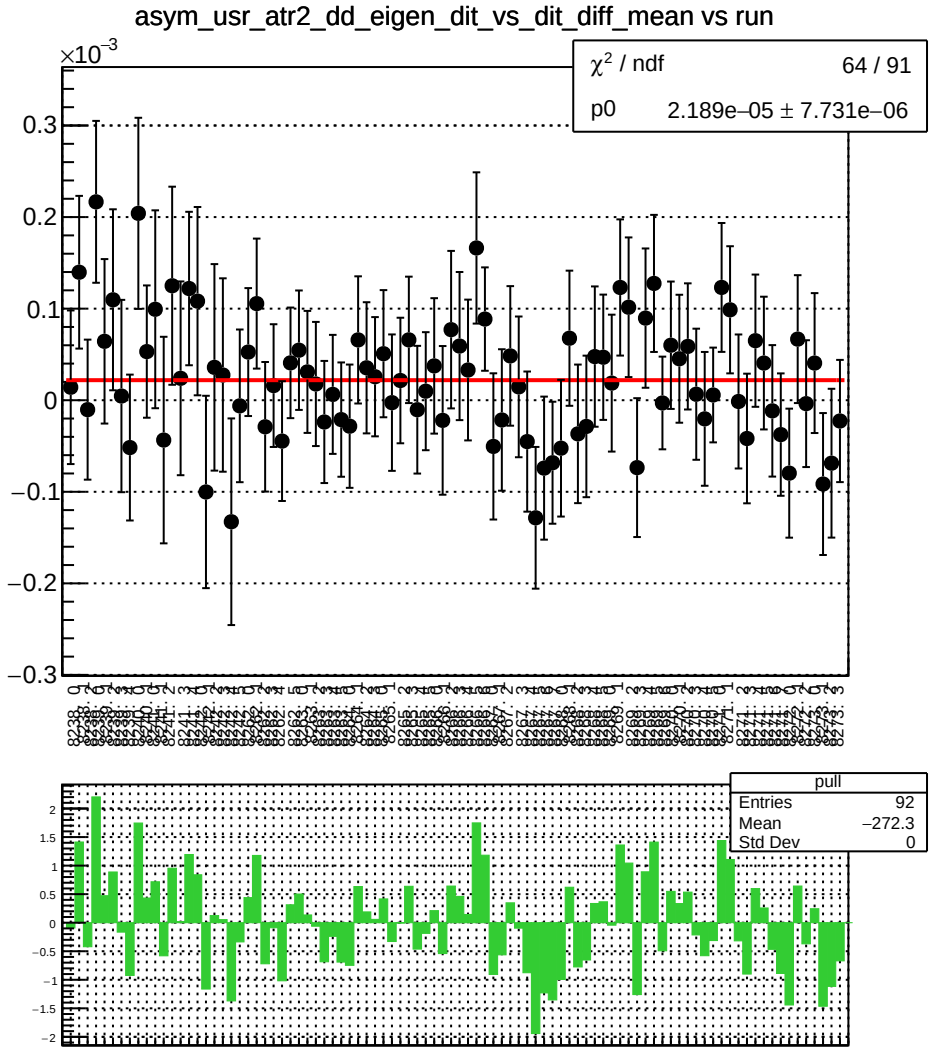

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.148e+06 / 91
p0 2.921e−10 ± 3.665e−13
1.2
1
0.8
0.6
0.4
0.2
0

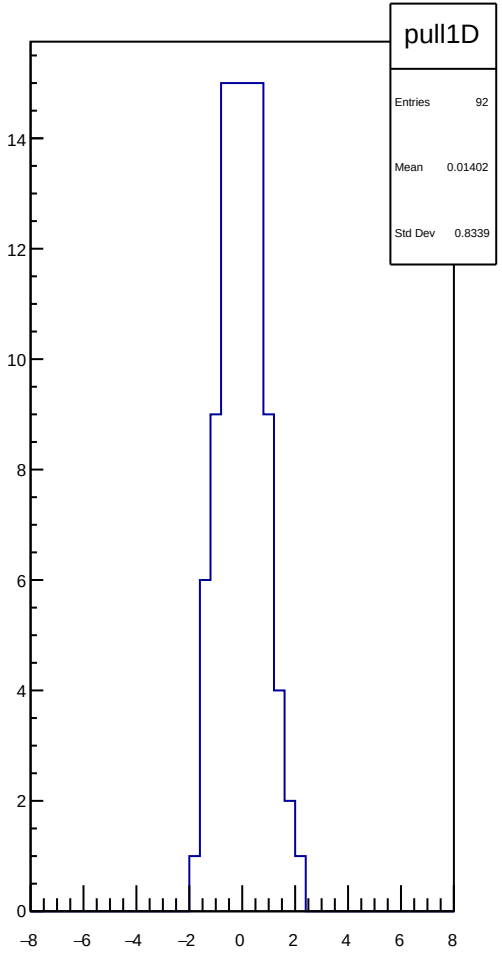

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.81 / 91
p0 −0.1312 ± 0.1473
pull
Entries 92
Mean 80.36
Std Dev 0
pull1D
Entries 92
Mean −0.01634
Std Dev 0.9429

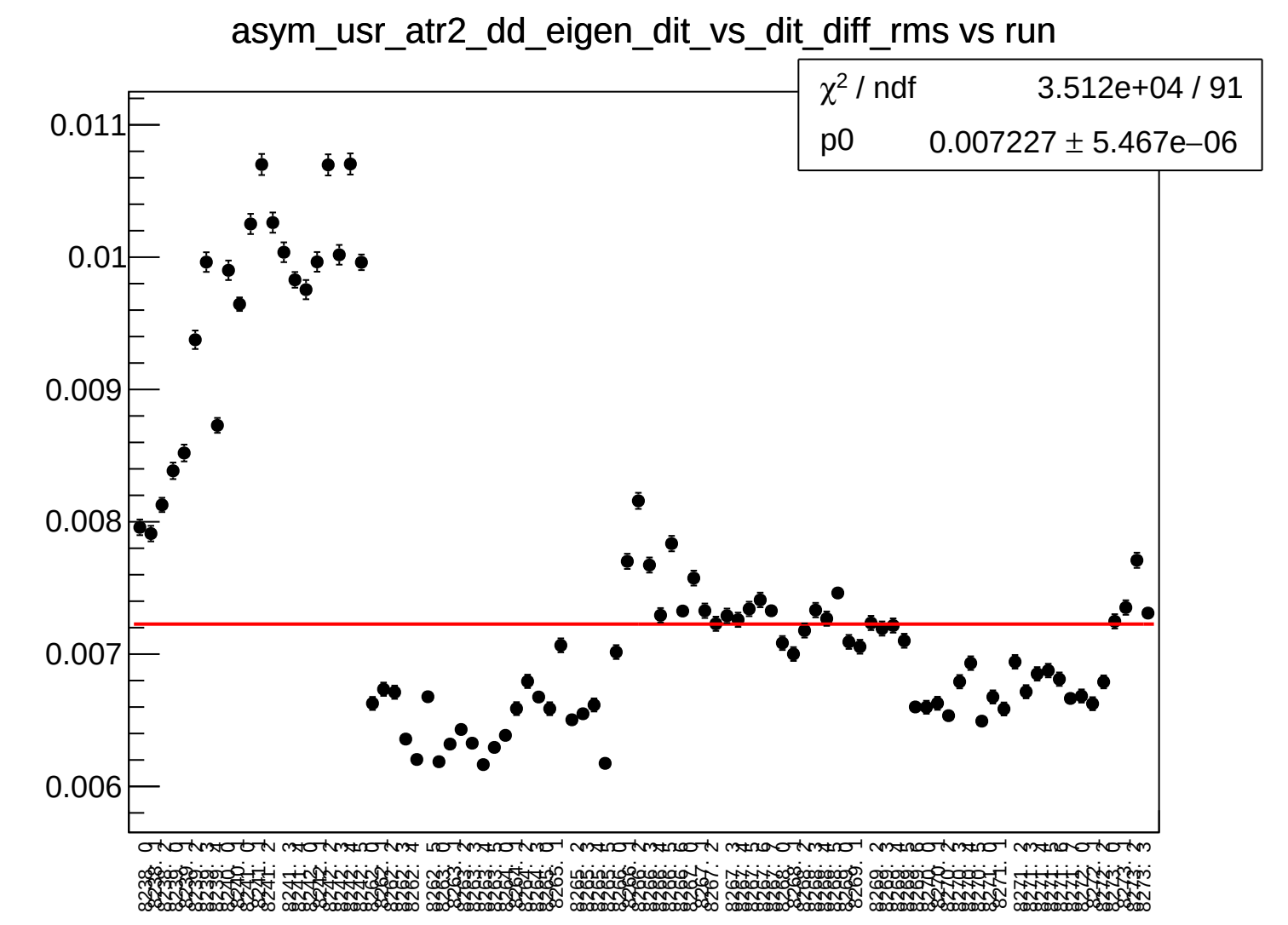

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.232e+04 / 91
p0 136.6 ± 0.1041
240
220
200
180
160
140
120
100
80

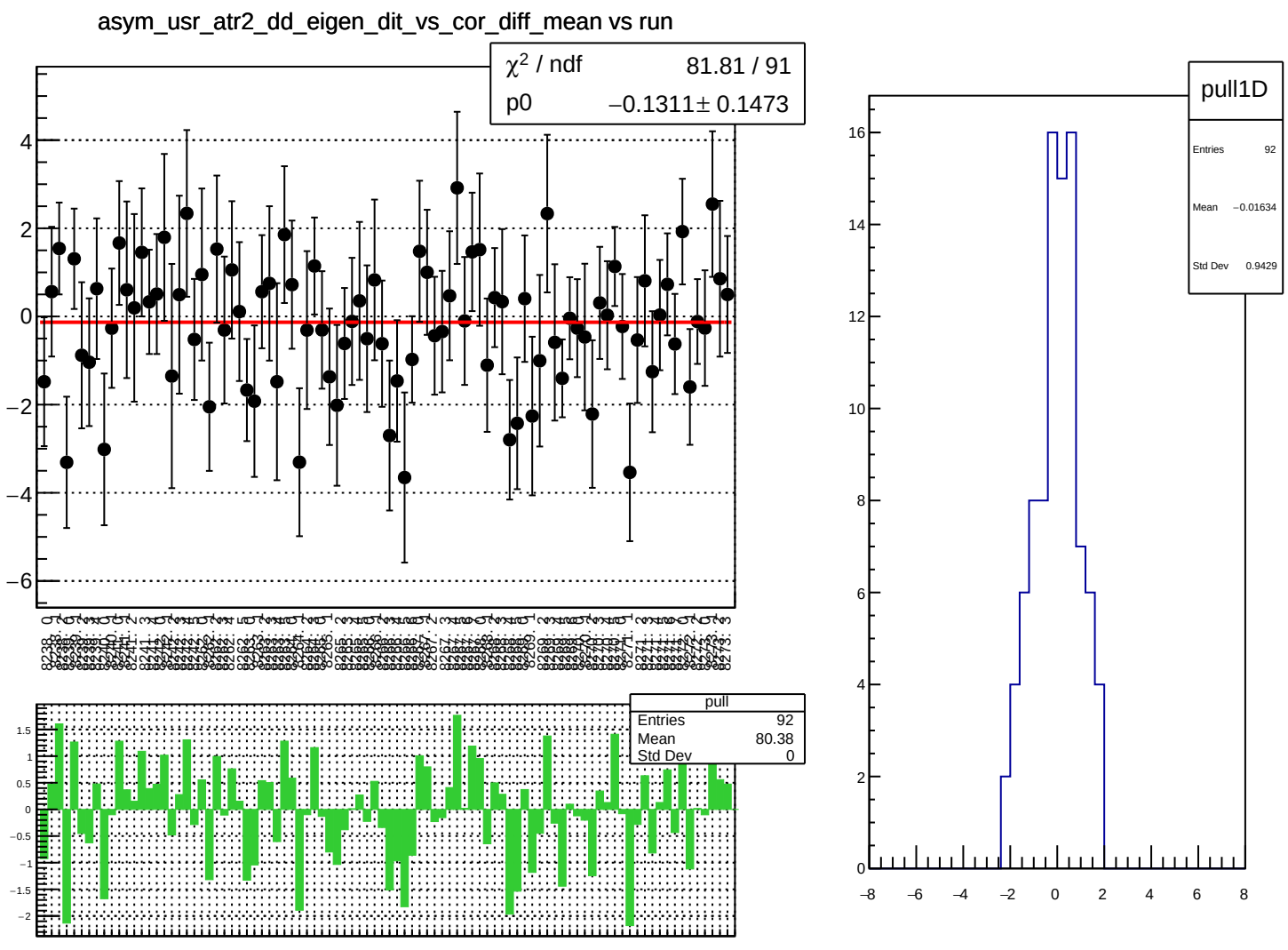

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.81 / 91
p0 −0.1312 ± 0.1473
pull
Entries 92
Mean 80.36
Std Dev 0
pull1D
Entries 92
Mean −0.01634
Std Dev 0.9429

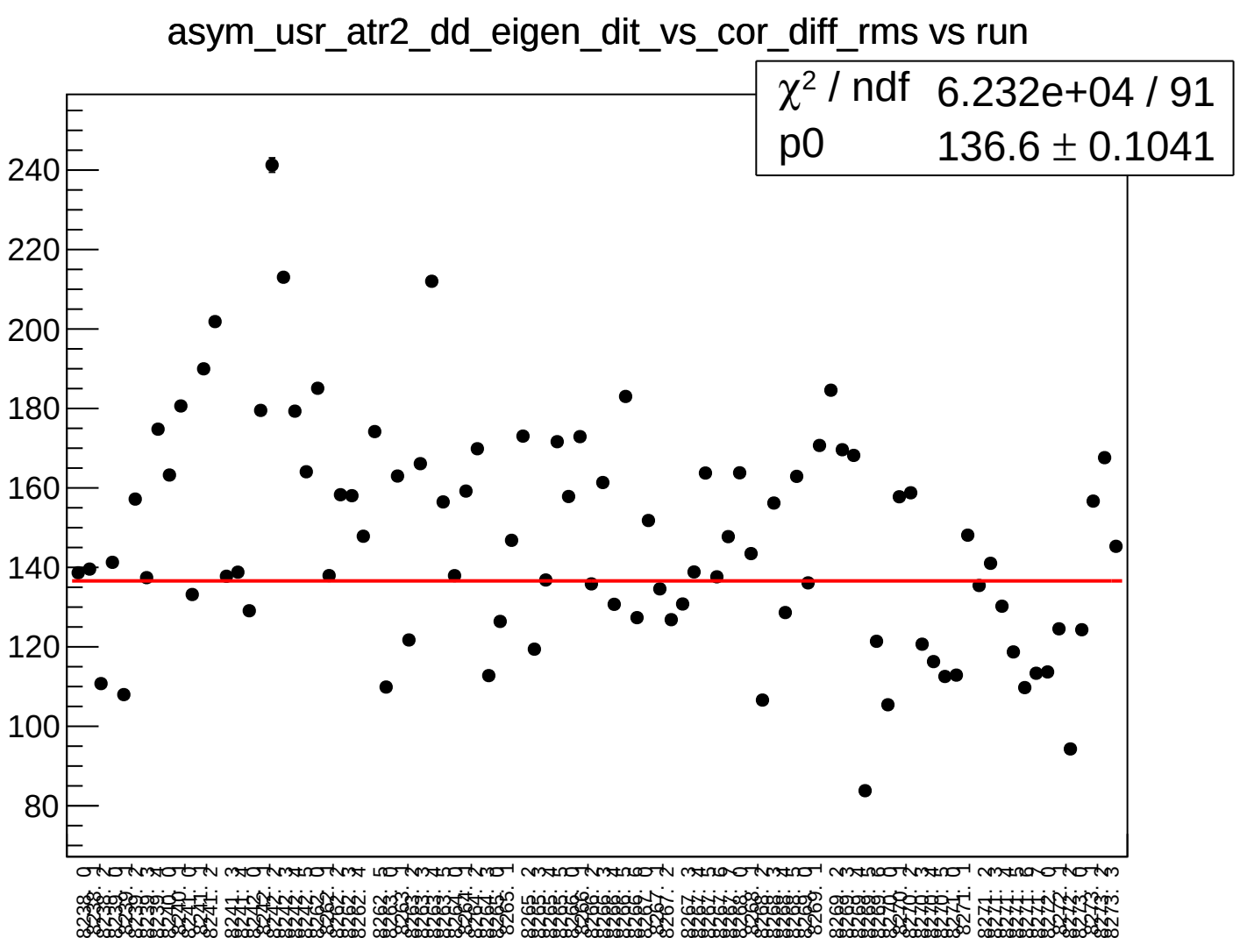

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.232e+04 / 91
p0 136.6 ± 0.1041
240
220
200
180
160
140
120
100
80

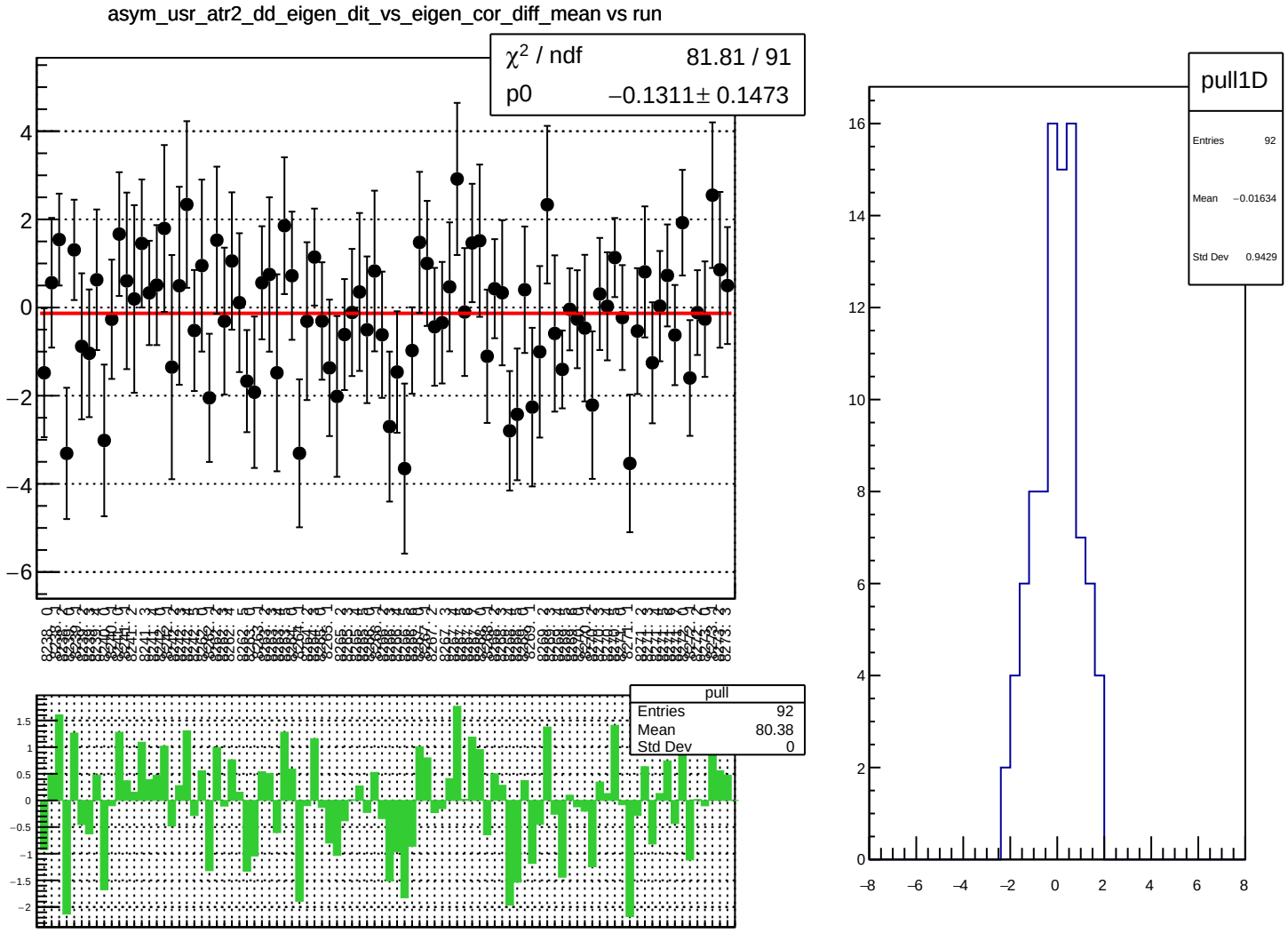

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 64 / 91
p0 2.189e−05 ± 7.731e−06
pull
Entries 92
Mean −272.3
Std Dev 0

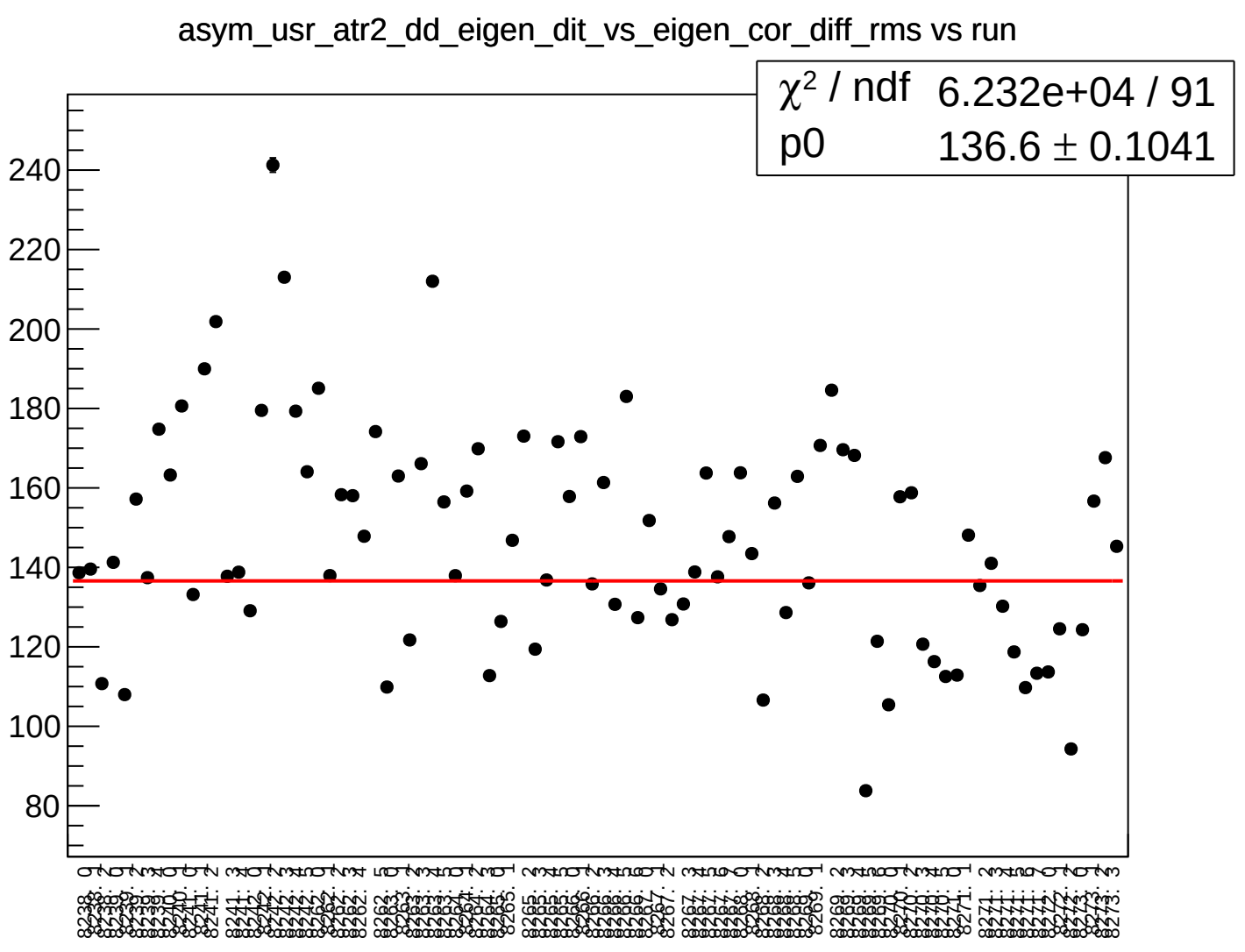

pull1D
Entries 92
Mean 0.01402
Std Dev 0.8339

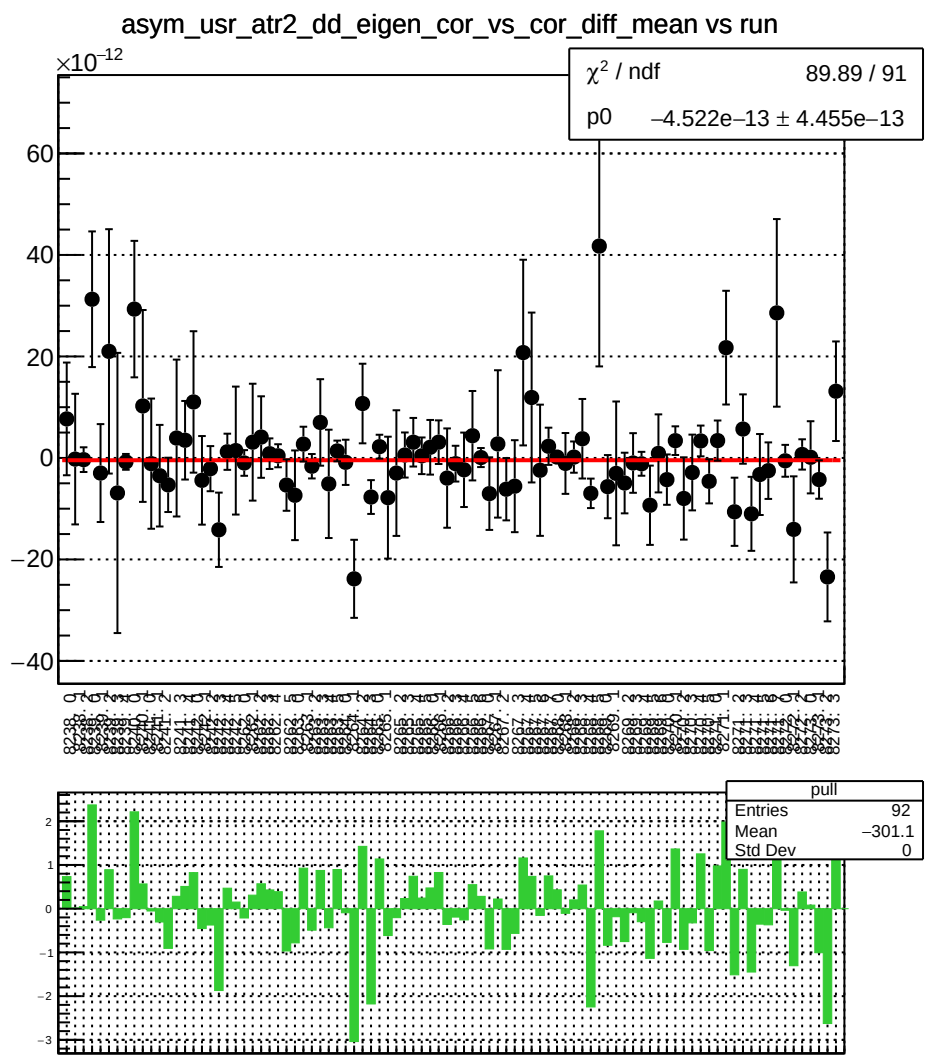

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.512e+04 / 91
p0 0.007227 ± 5.467e−06
0.011
0.01
0.009
0.008
0.007
0.006

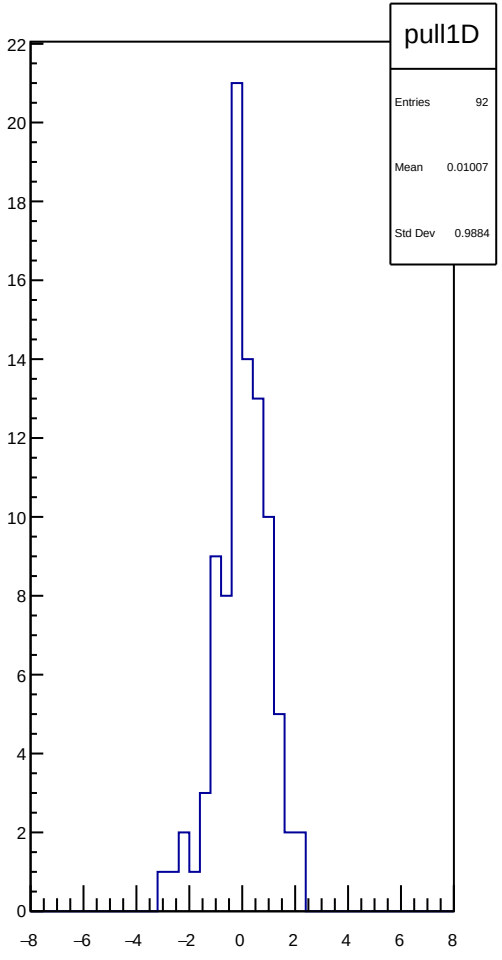

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.81 / 91
p0 −0.1311± 0.1473
pull
Entries 92
Mean 80.38
Std Dev 0
pull1D
Entries 92
Mean −0.01634
Std Dev 0.9429

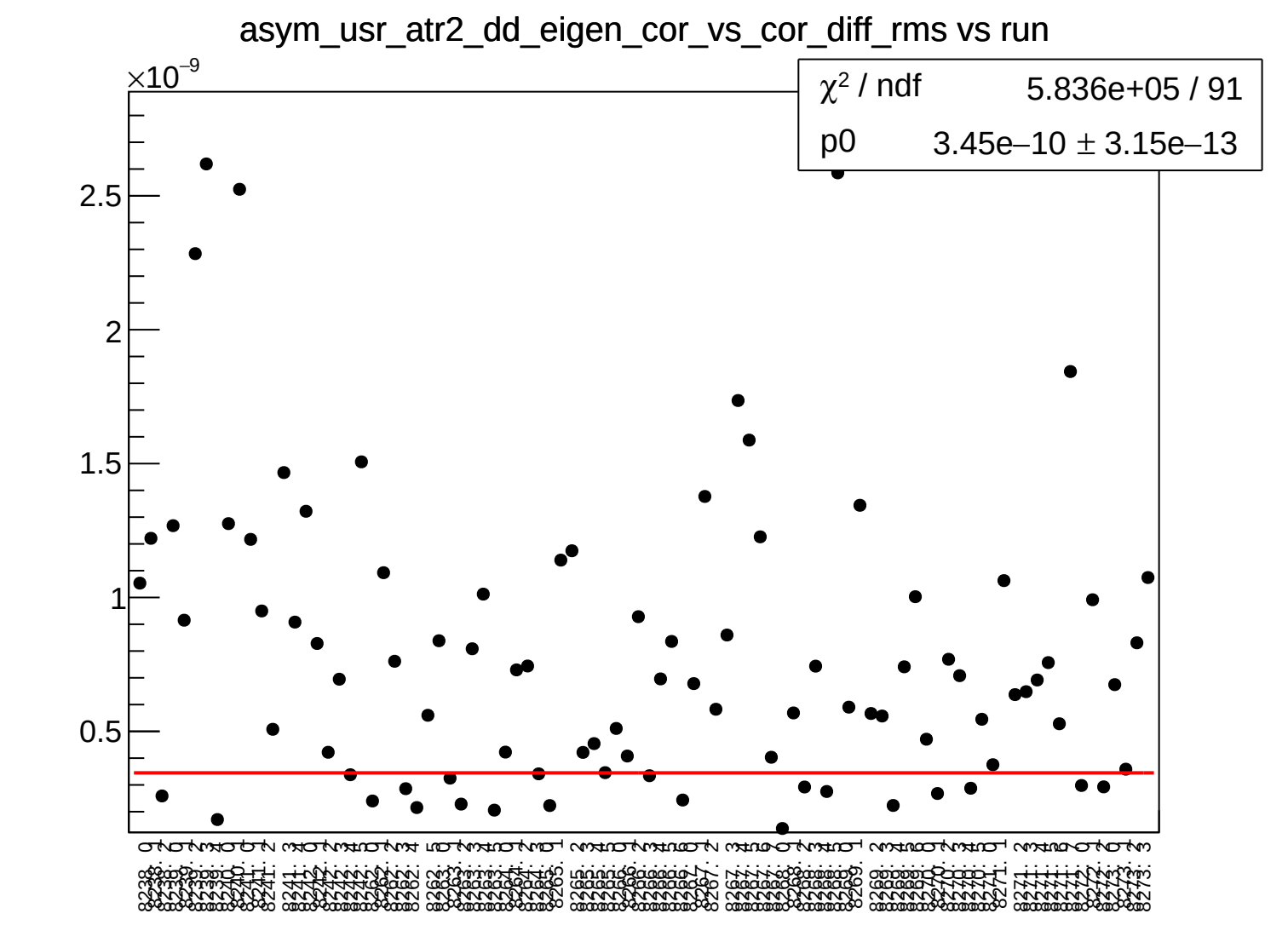

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.232e+04 / 91
p0 136.6 ± 0.1041
240
220
200
180
160
140
120
100
80

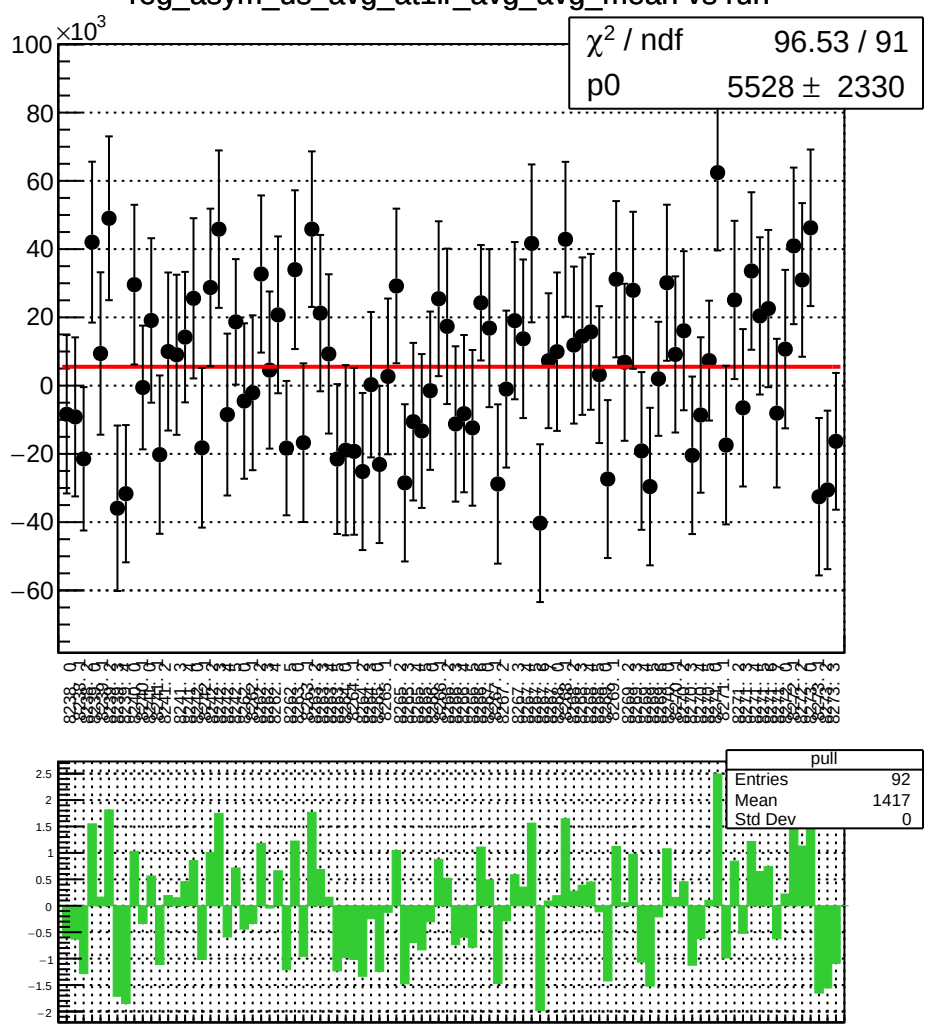

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.81 / 91
p0 −0.1311± 0.1473
pull
Entries 92
Mean 80.38
Std Dev 0
pull1D
Entries 92
Mean −0.01634
Std Dev 0.9429

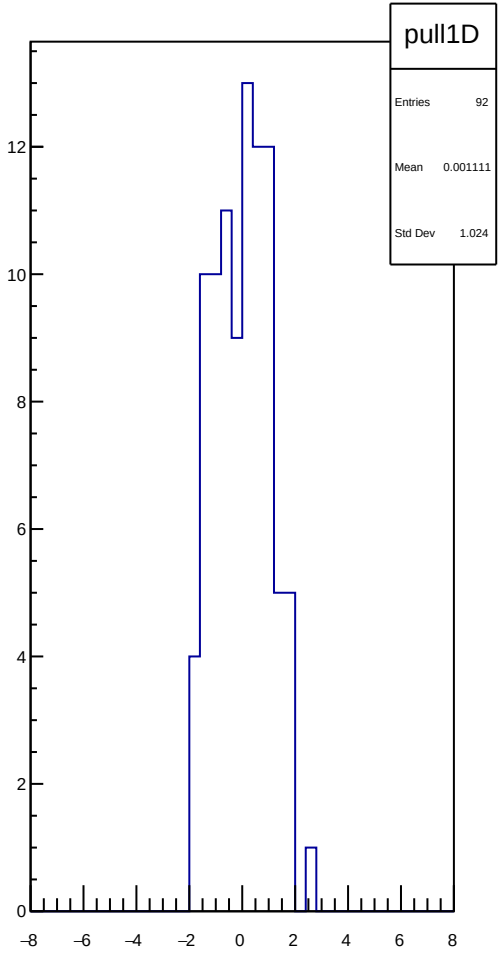

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.232e+04 / 91
p0 136.6 ± 0.1041
240
220
200
180
160
140
120
100
80

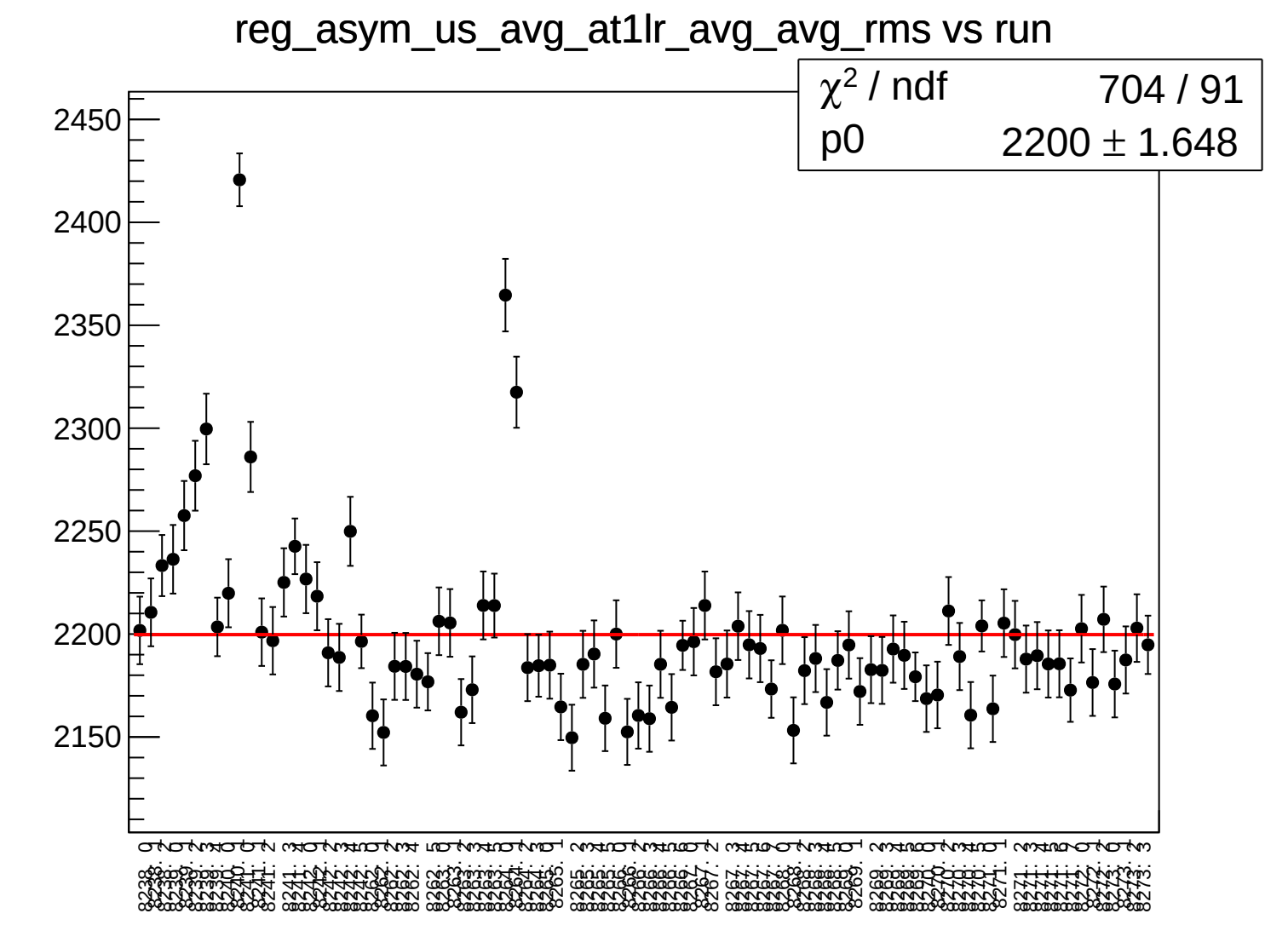

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.89 / 91
p0 −4.522e−13 ± 4.455e−13
pull
Entries 92
Mean −301.1
Std Dev 0

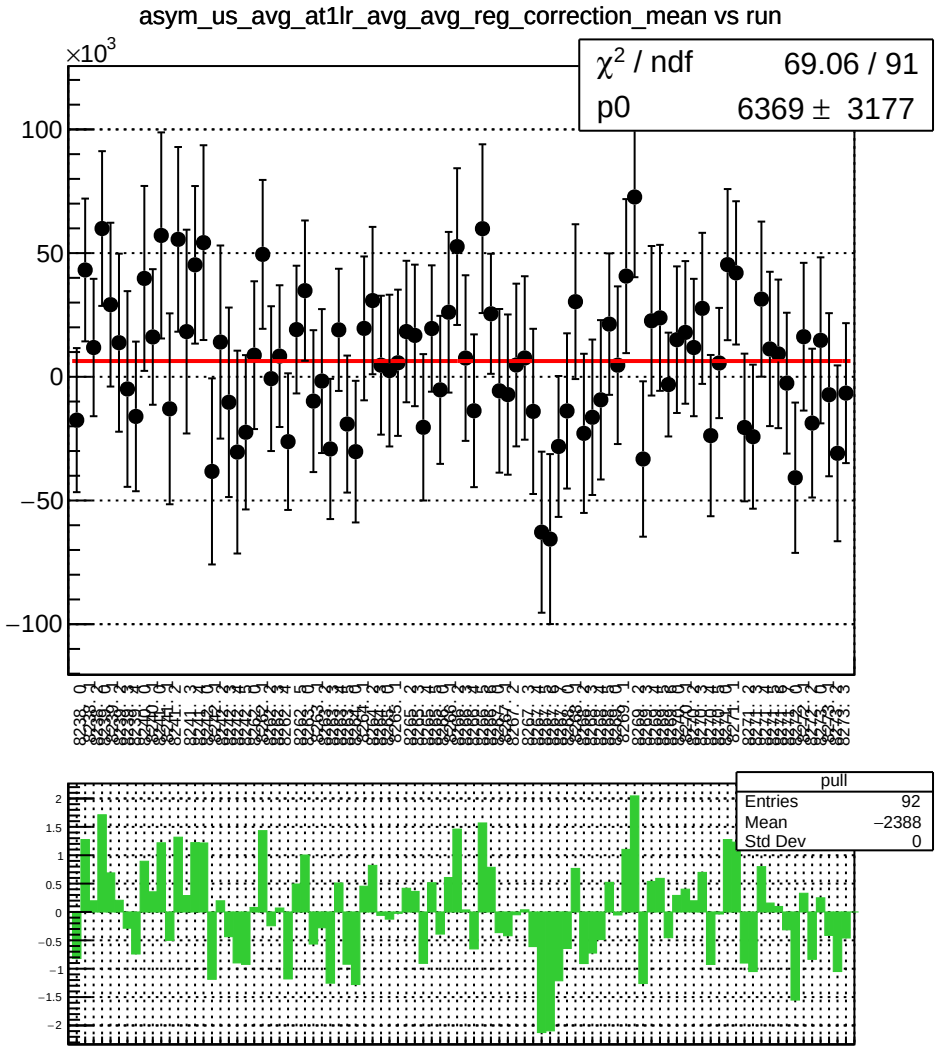

pull1D
Entries 92
Mean 0.01007
Std Dev 0.9884

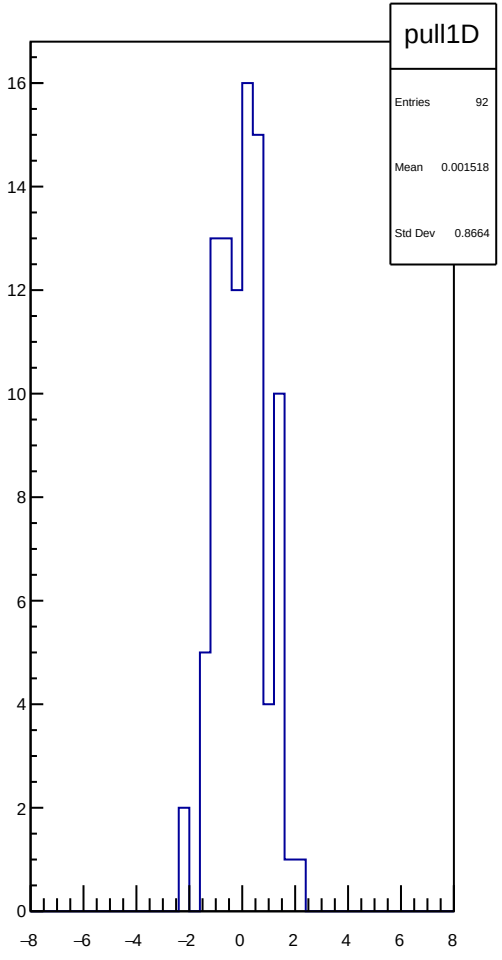

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.836e+05 / 91
p0 3.45e−10 ± 3.15e−13
2.5
2
1.5
1
0.5

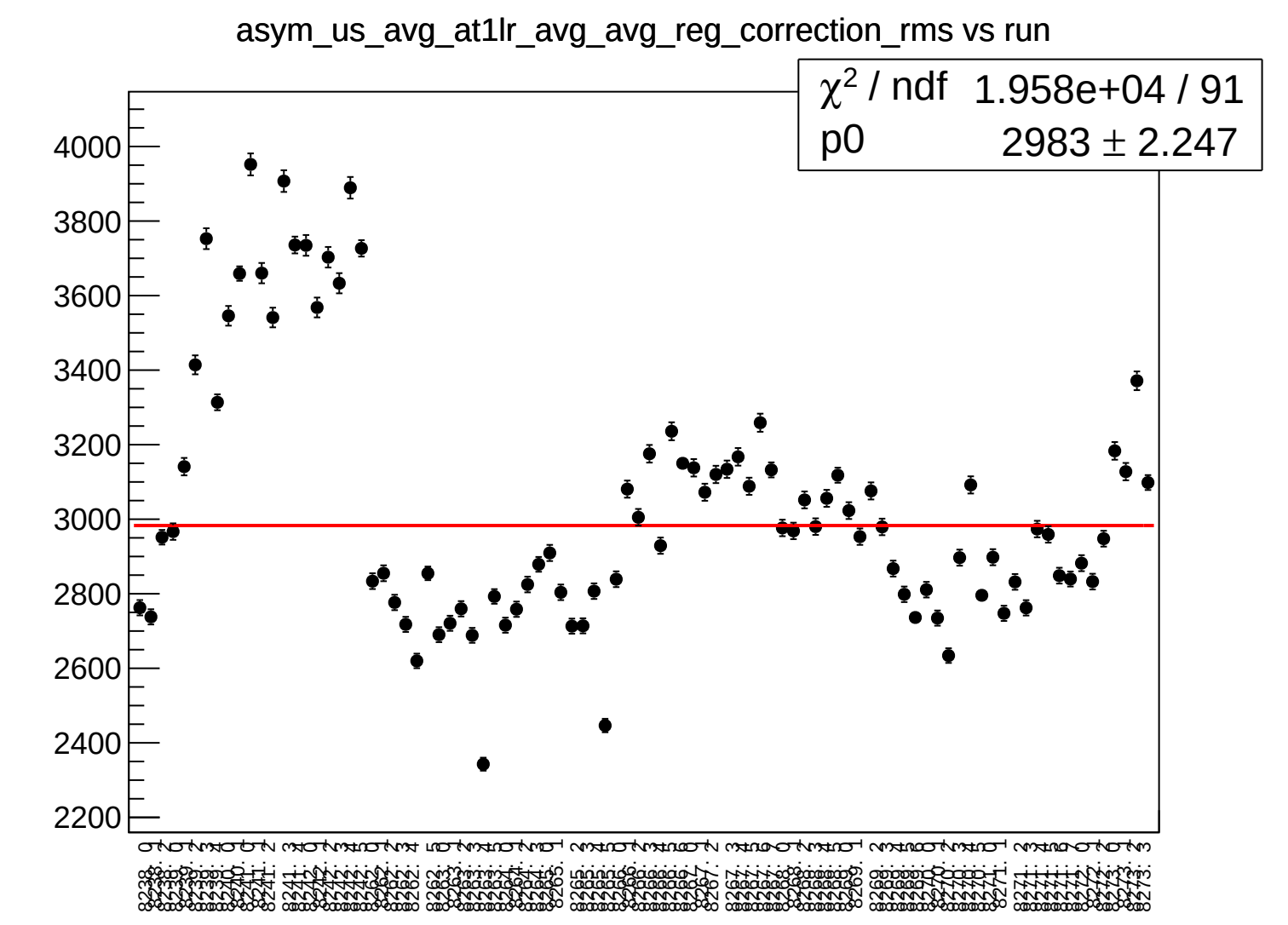

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 96.53 / 91
p0 5528 ± 2330
×10³
pull
Entries 92
Mean 1417
Std Dev 0

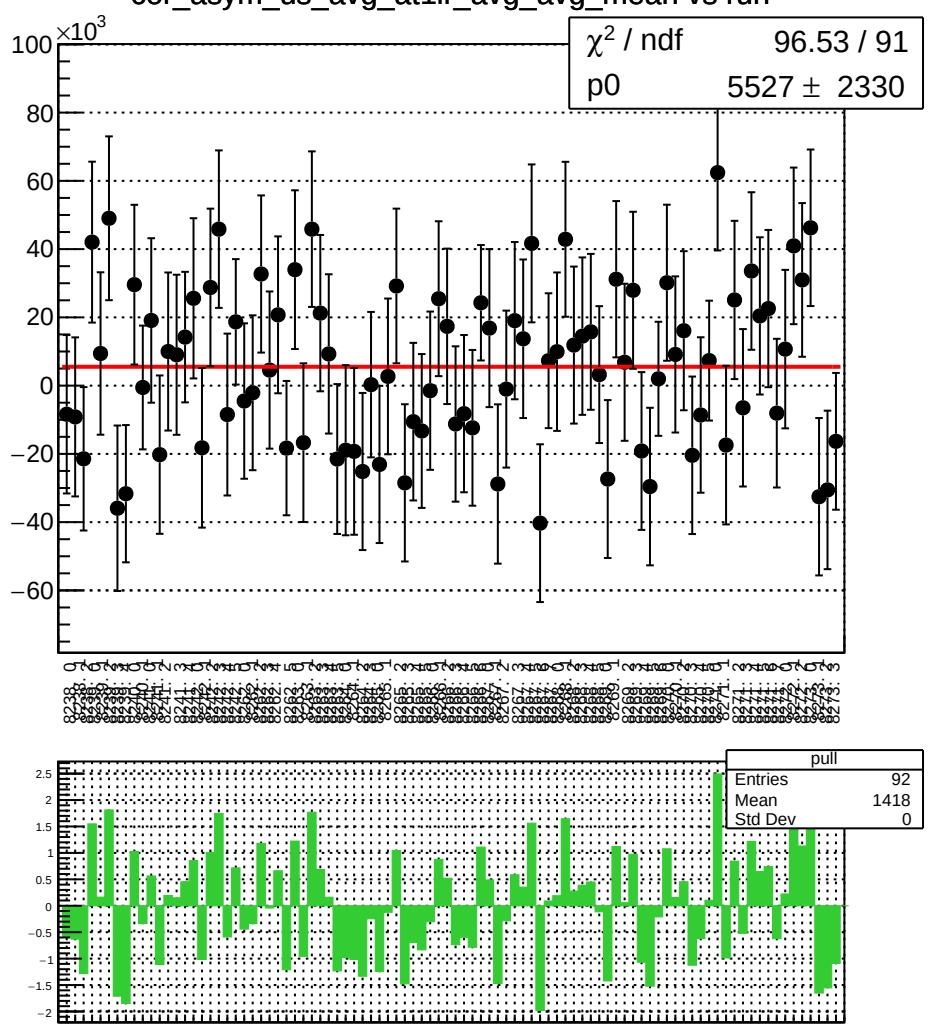

pull1D
Entries 92
Mean 0.001111
Std Dev 1.024

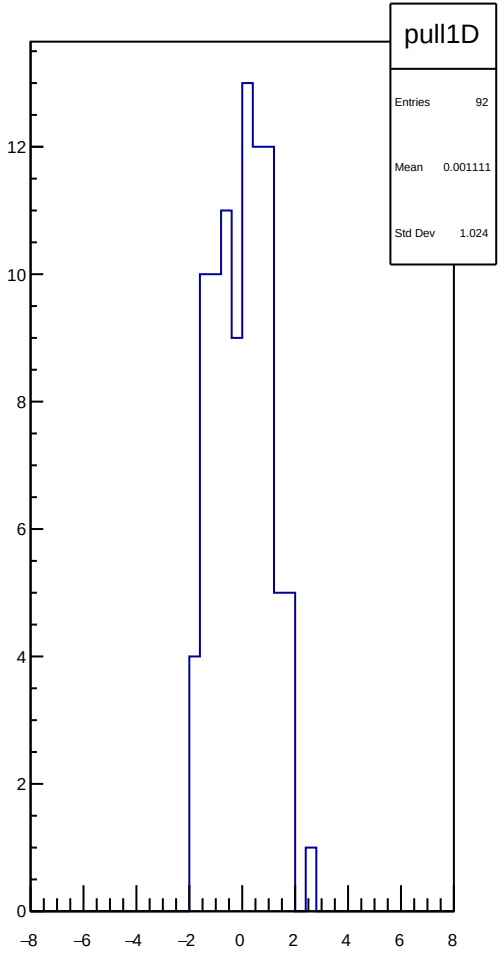

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 704 / 91
p0 2200 ± 1.648
2450
2400
2350
2300
2250
2200
2150

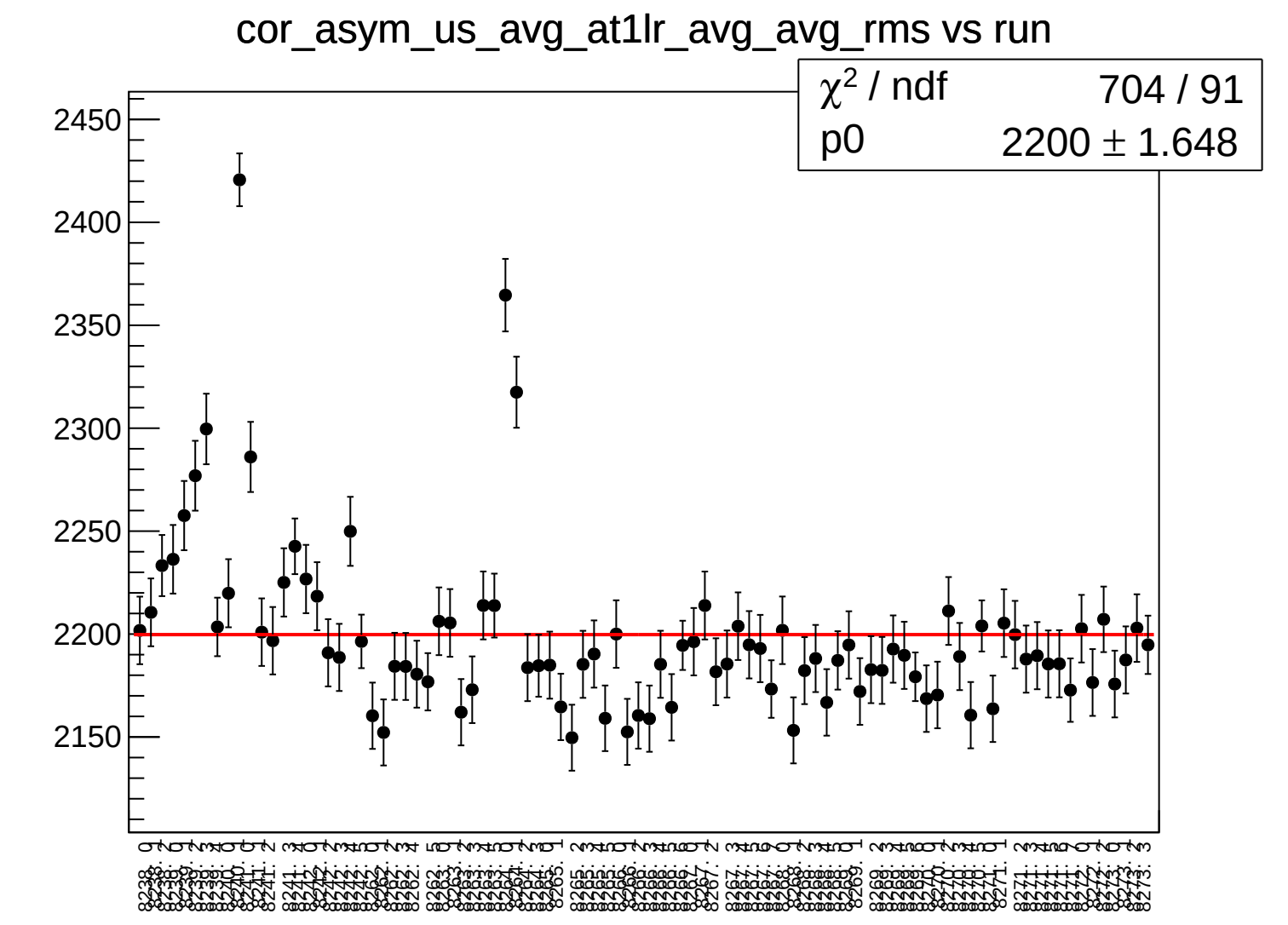

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 69.06 / 91
p0 6369 ± 3177
100
50
0
−50
−100
pull
Entries 92
Mean −2388
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

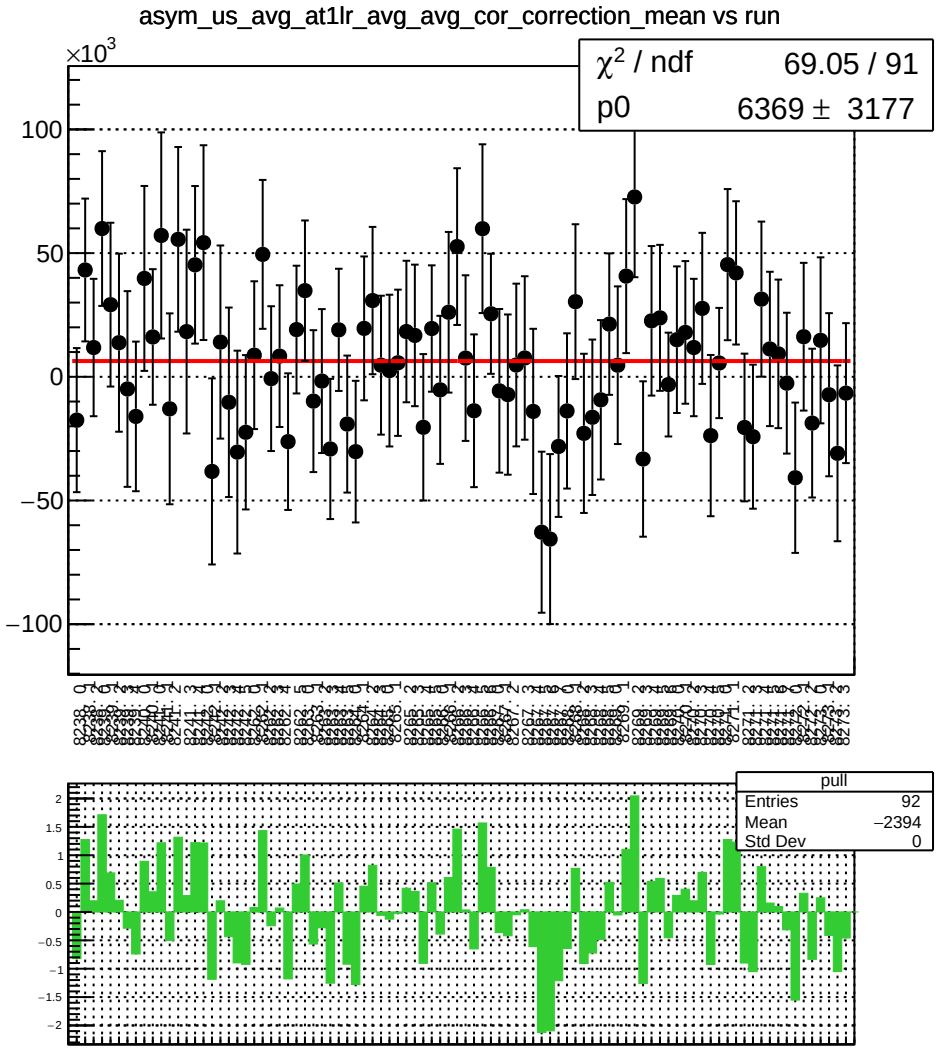

pull1D
Entries 92
Mean 0.001518
Std Dev 0.8664
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

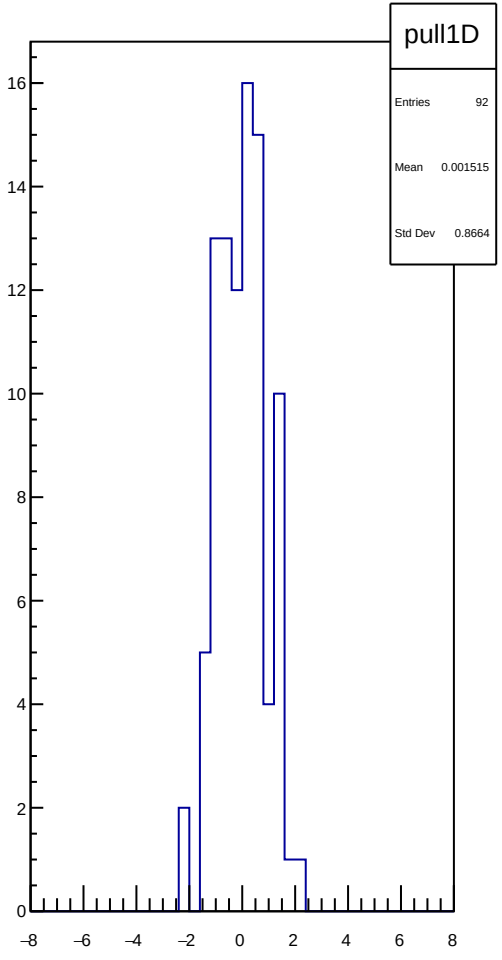

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.958e+04 / 91
p0 2983 ± 2.247
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

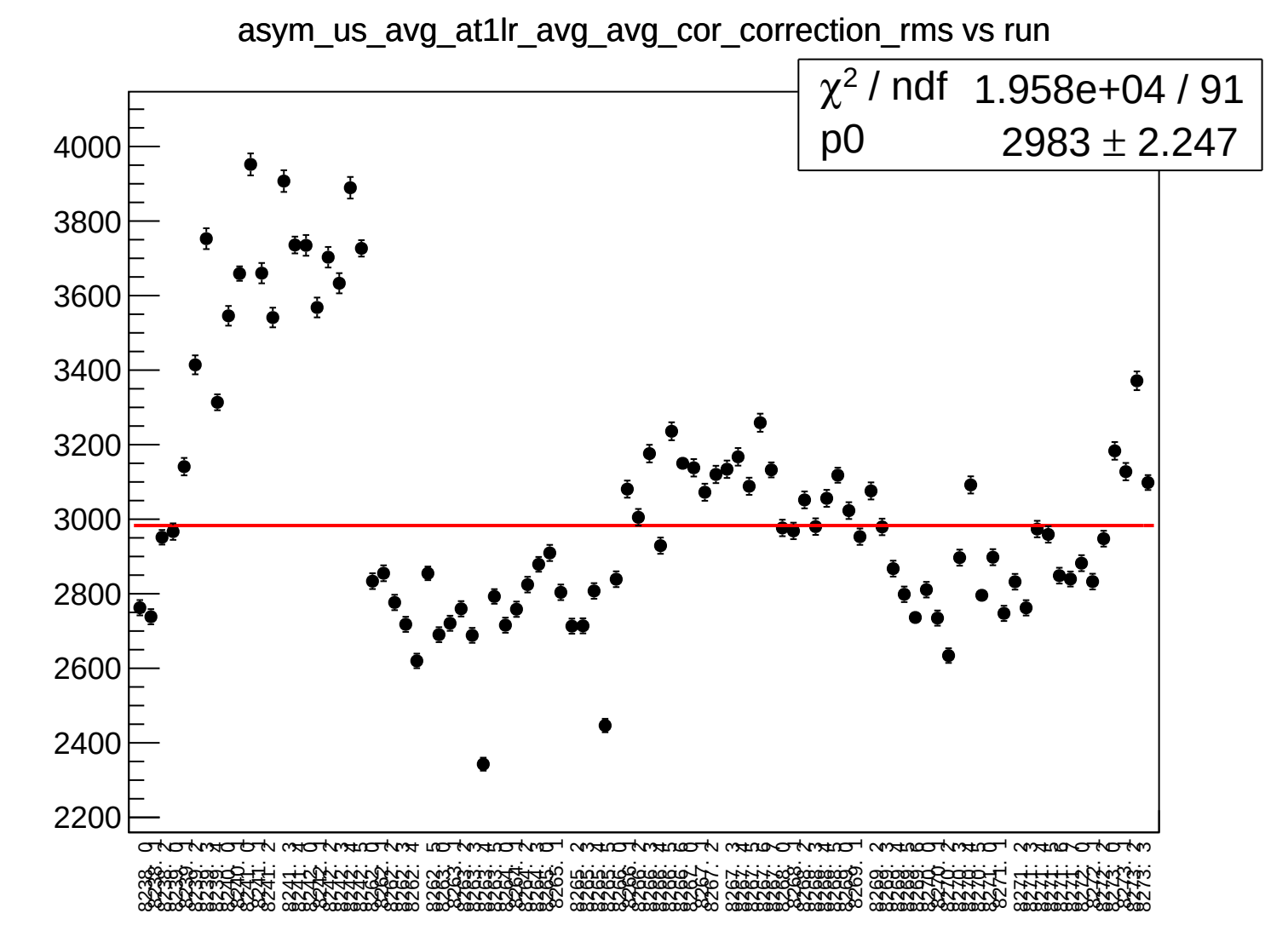

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 96.53 / 91
p0 5527 ± 2330
×10³
pull
Entries 92
Mean 1418
Std Dev 0

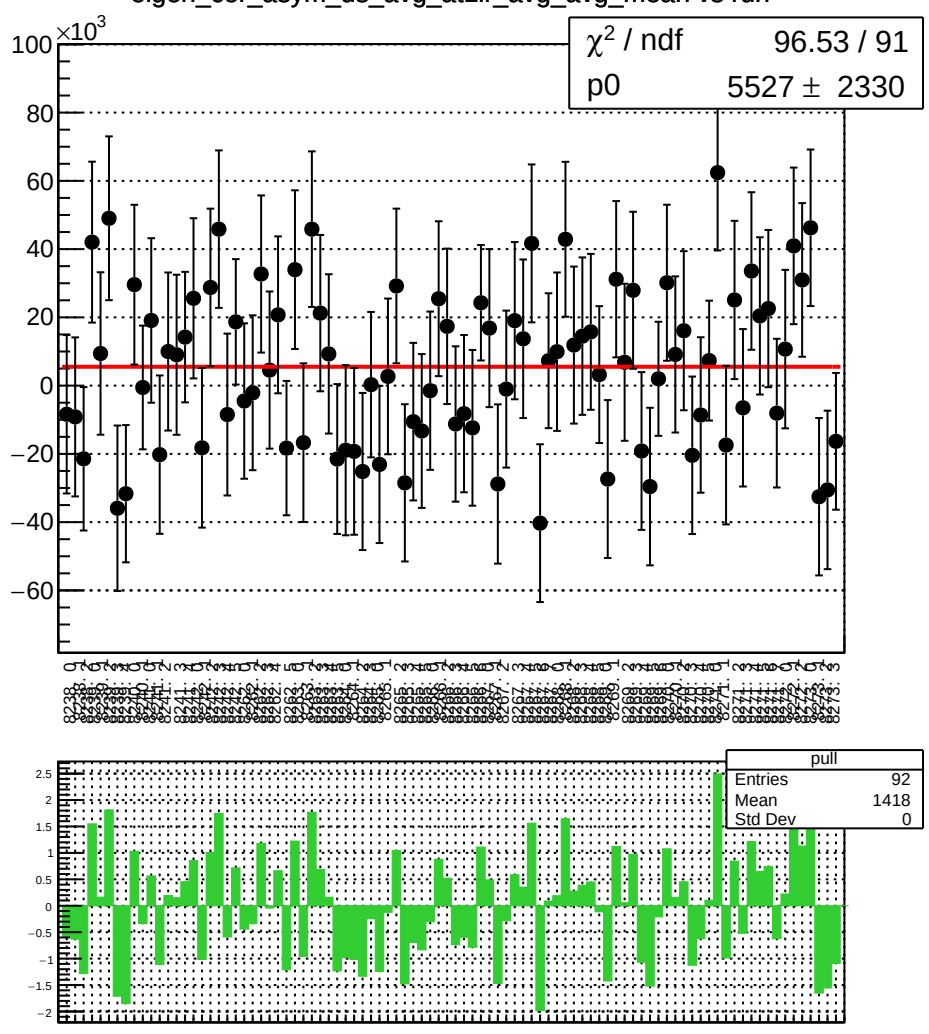

pull1D
Entries 92
Mean 0.001111
Std Dev 1.024

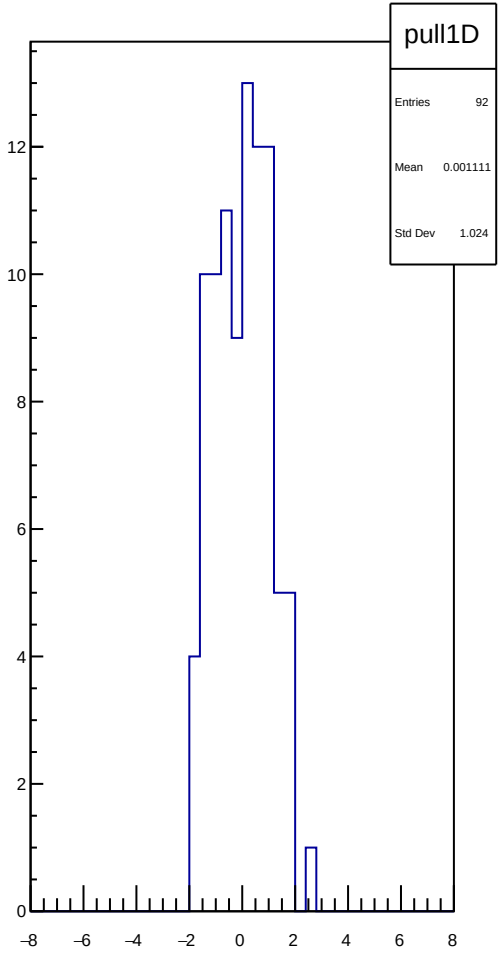

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 704 / 91
p0 2200 ± 1.648
2450
2400
2350
2300
2250
2200
2150

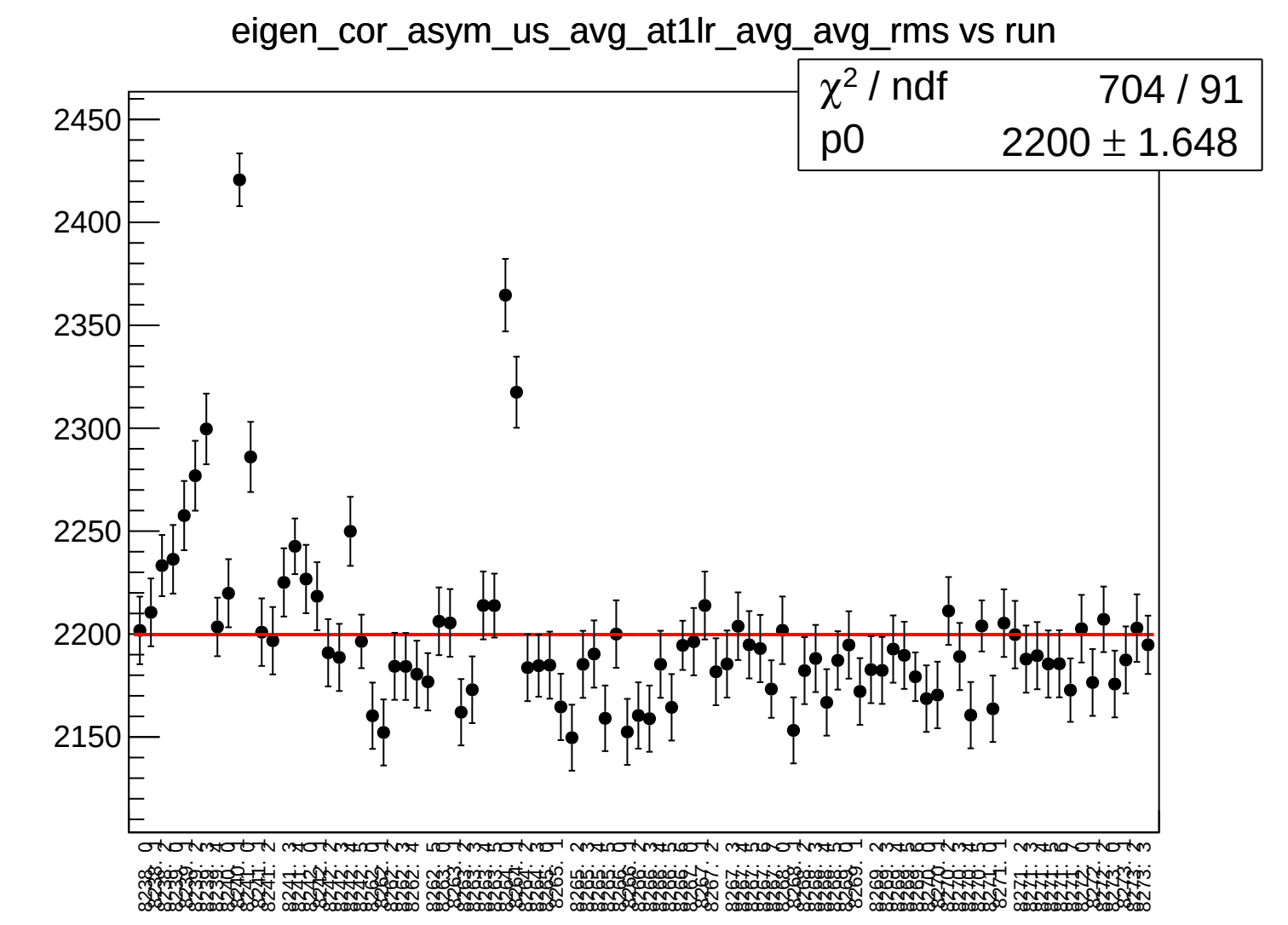

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 69.05 / 91
p0 6369 ± 3177
100
50
0
−50
−100
pull
Entries 92
Mean −2394
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

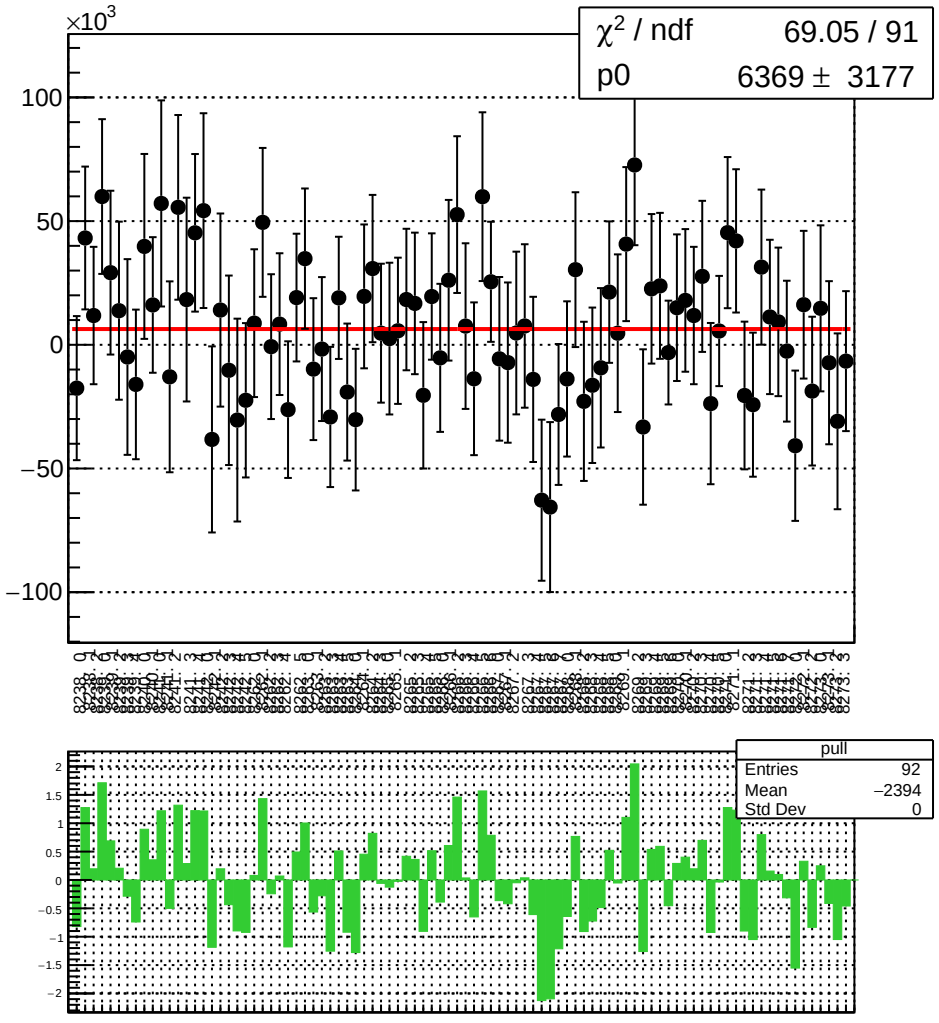

pull1D
Entries 92
Mean 0.001515
Std Dev 0.8664
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

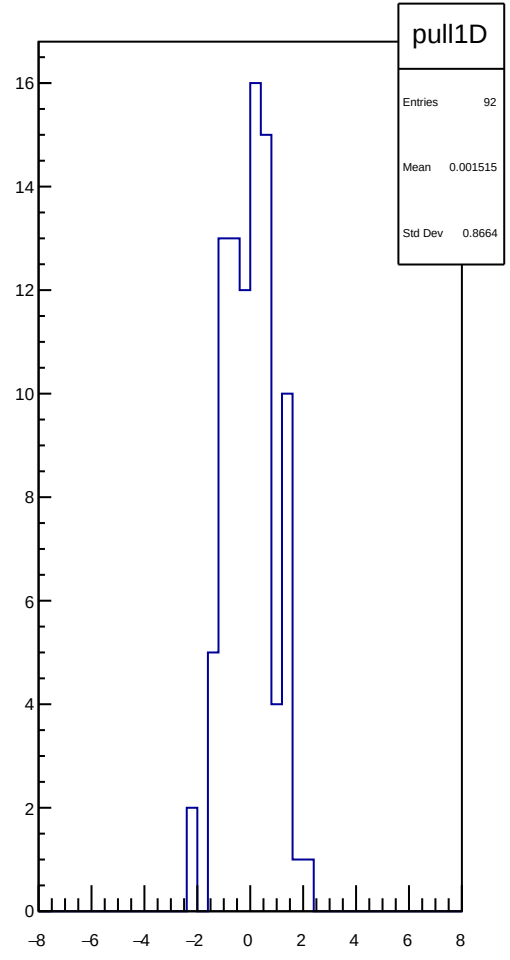

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.958e+04 / 91
p0 2983 ± 2.247
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

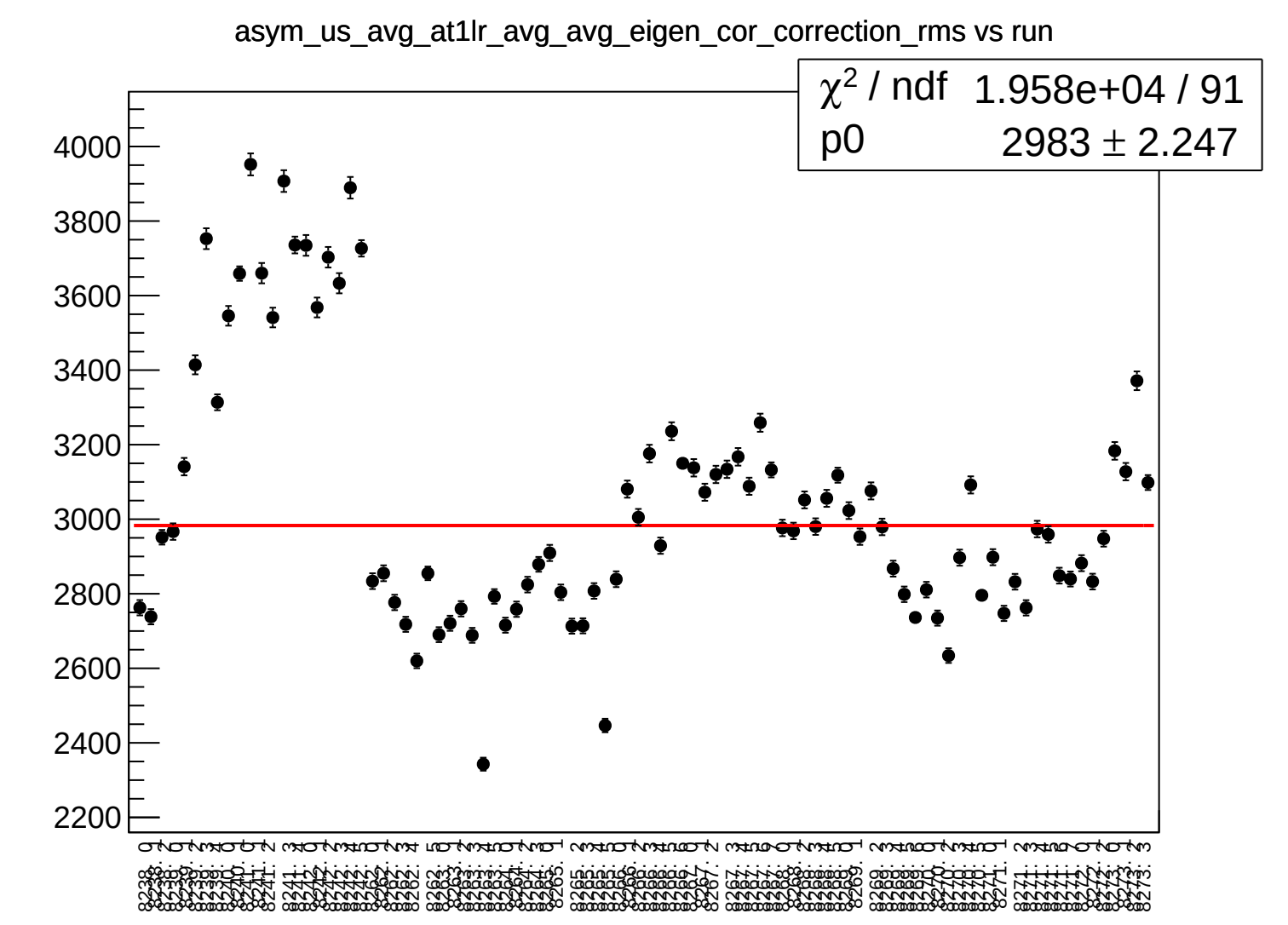

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 96.53 / 91
p0 5527 ± 2330
×10³
pull
Entries 92
Mean 1418
Std Dev 0

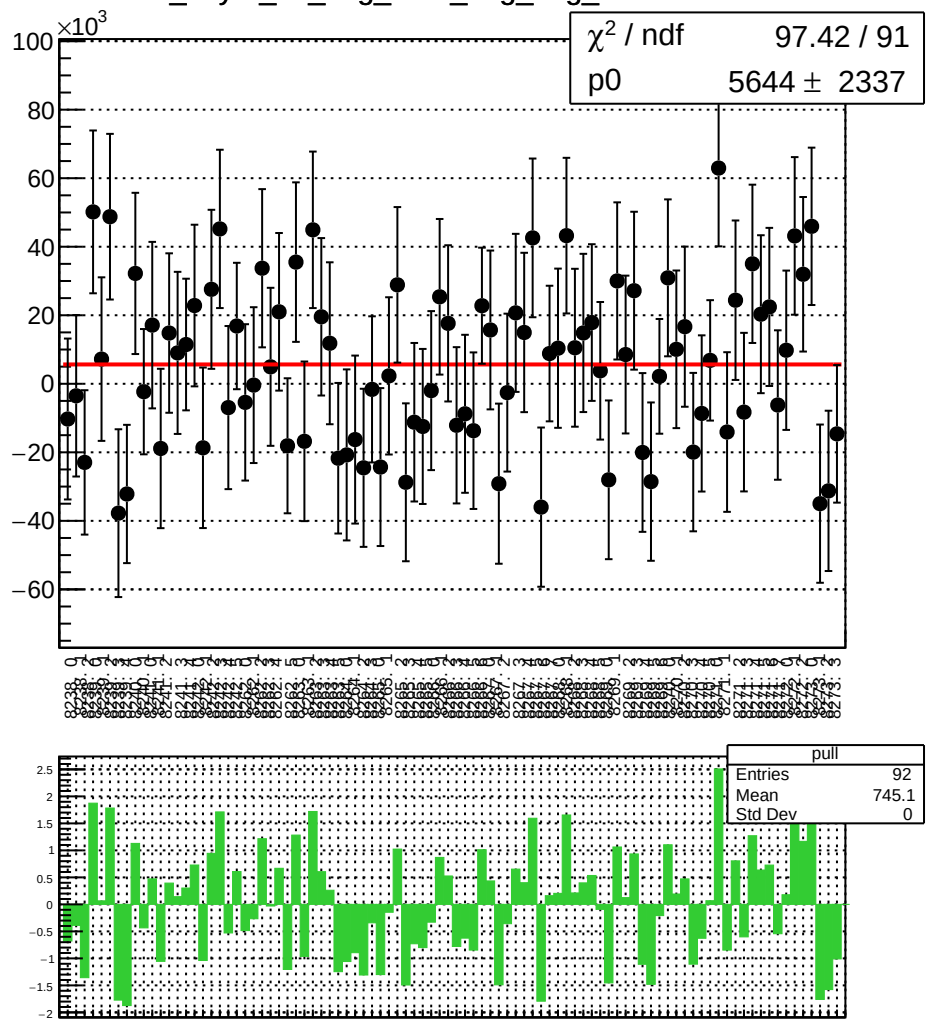

pull1D
Entries 92
Mean 0.001111
Std Dev 1.024

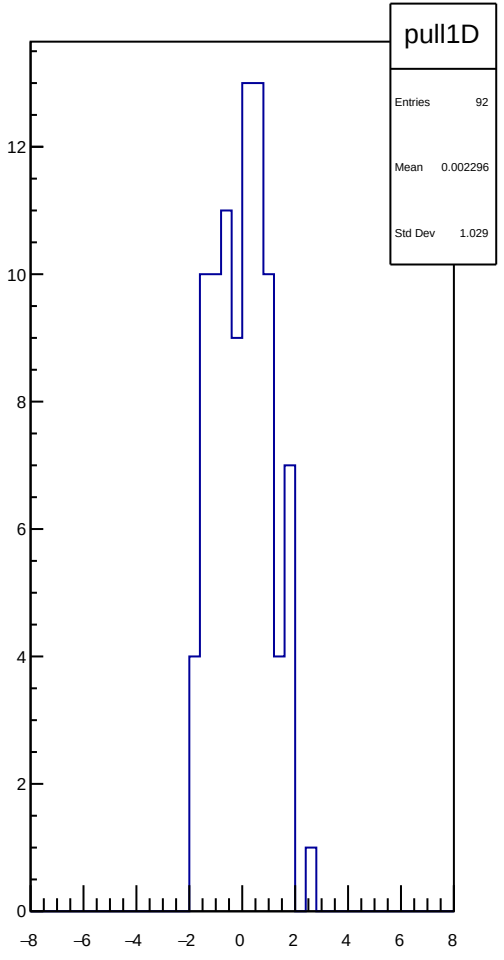

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 704 / 91
p0 2200 ± 1.648
2450
2400
2350
2300
2250
2200
2150

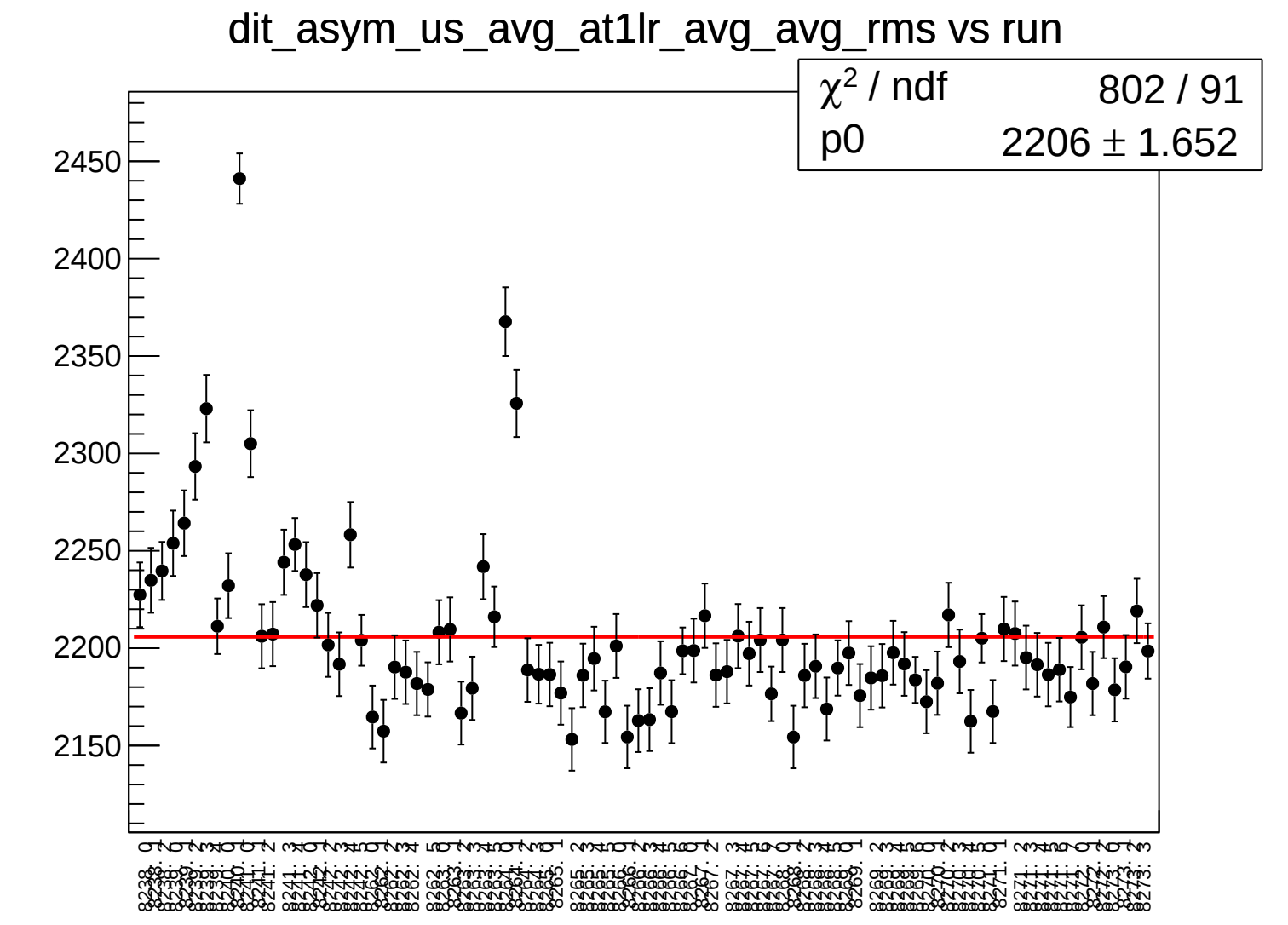

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 69.05 / 91
p0 6369 ± 3177
100
50
0
−50
−100
pull
Entries 92
Mean −2394
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

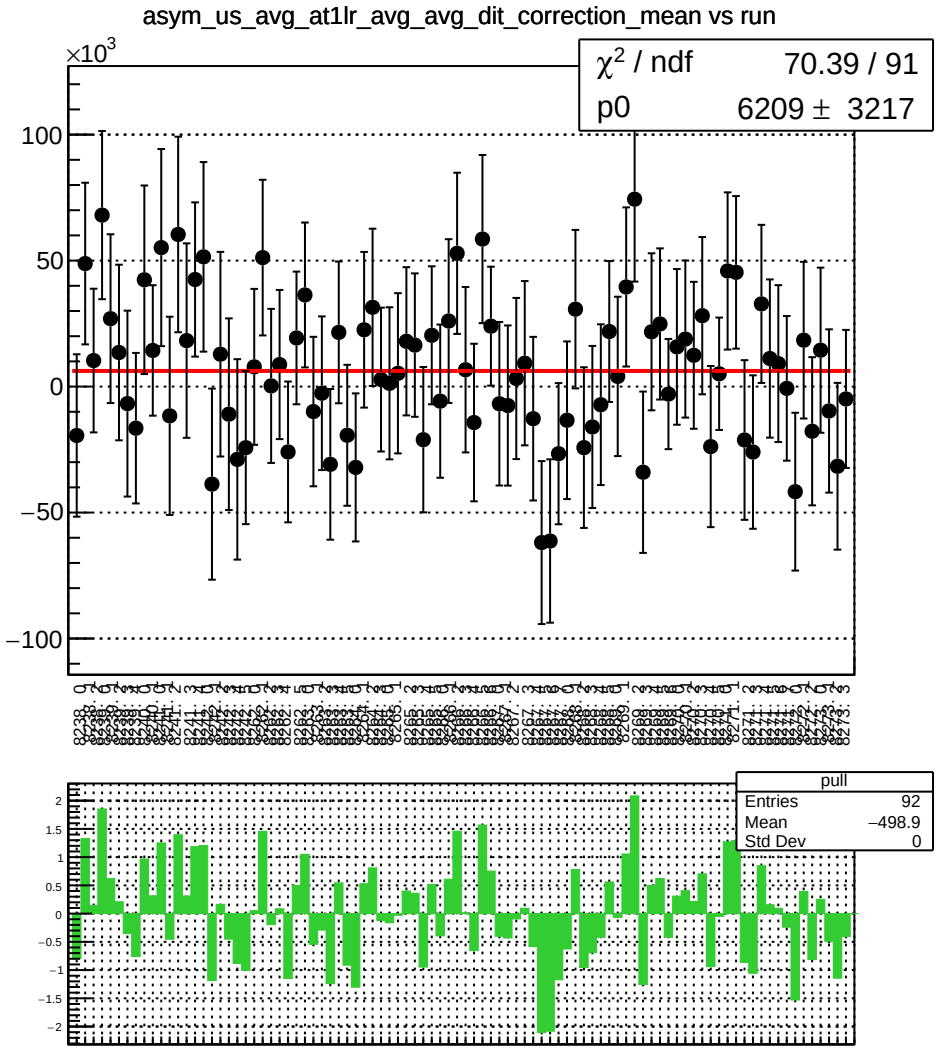

pull1D
Entries 92
Mean 0.001515
Std Dev 0.8664
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

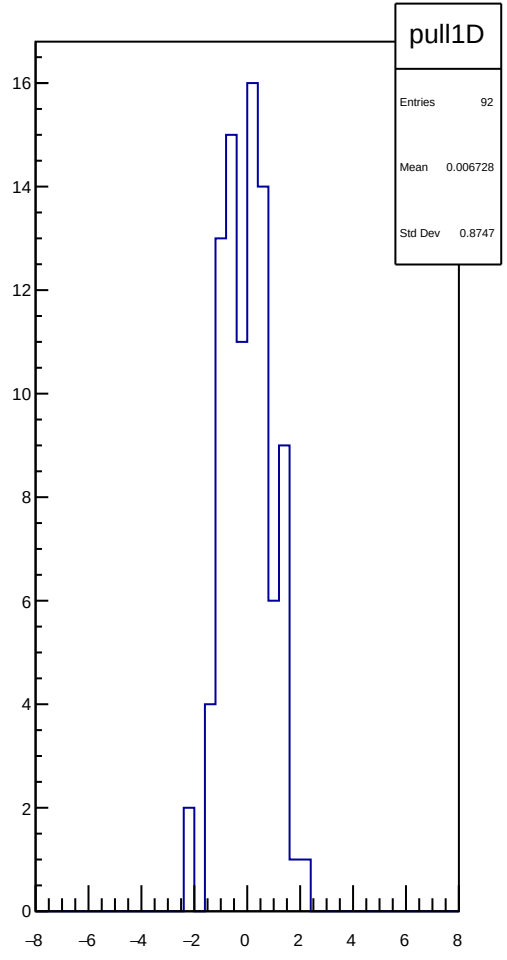

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.958e+04 / 91
p0 2983 ± 2.247
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

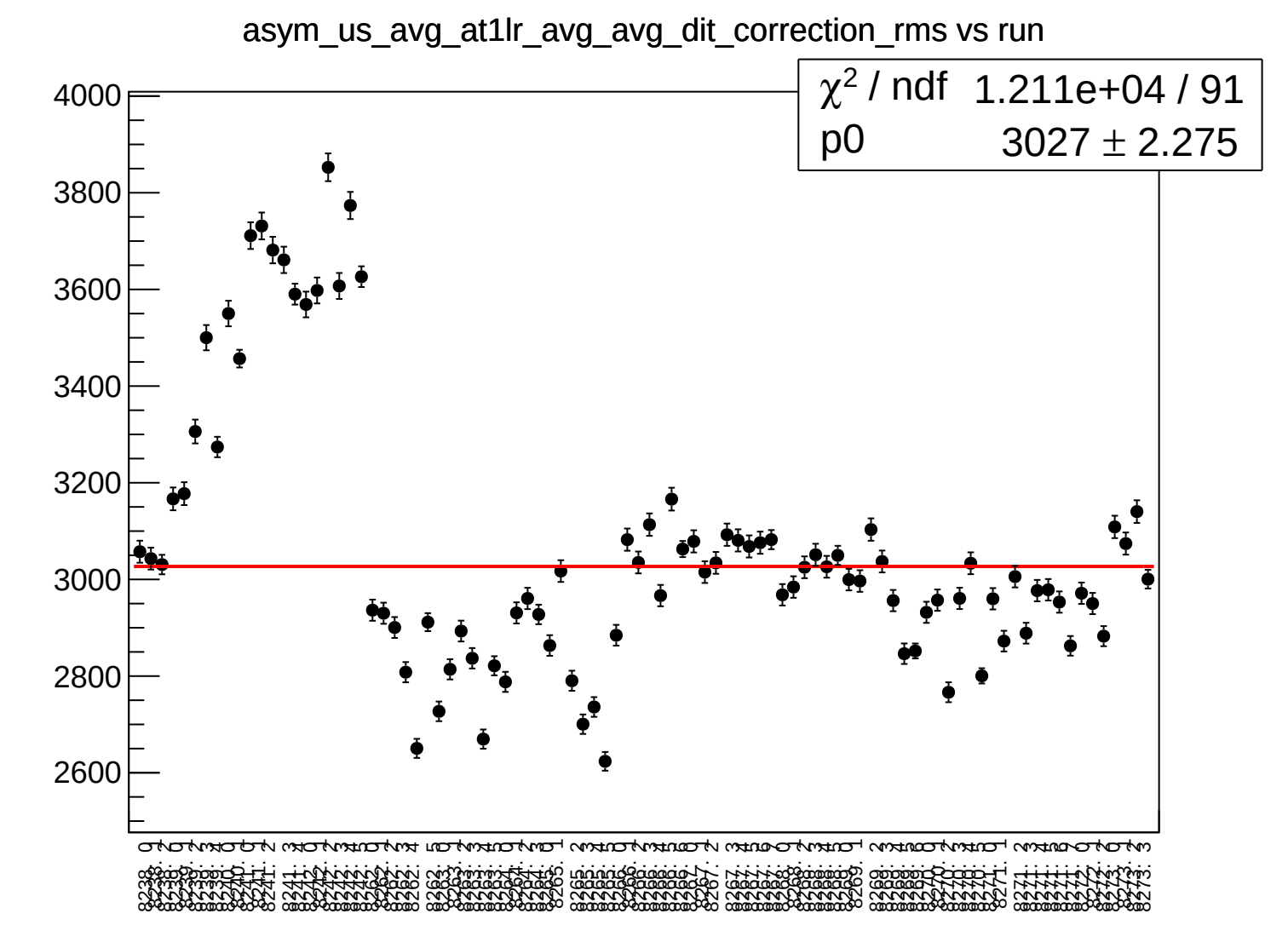

dit_asym_us_avg_at1lr_avg_avg_mean vs run
$\chi^2$ / ndf 97.42 / 91
p0 5644 ± 2337
×10^3
pull
Entries 92
Mean 745.1
Std Dev 0

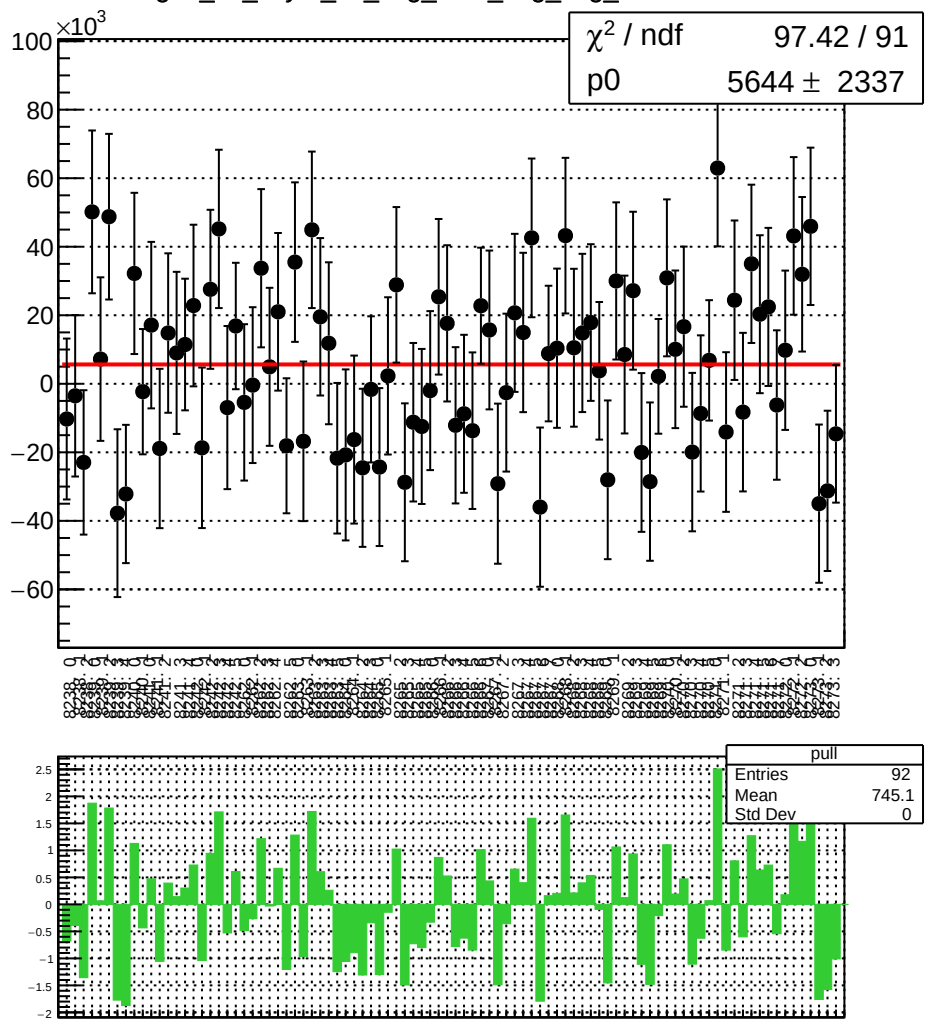

pull1D
Entries 92
Mean 0.002296
Std Dev 1.029

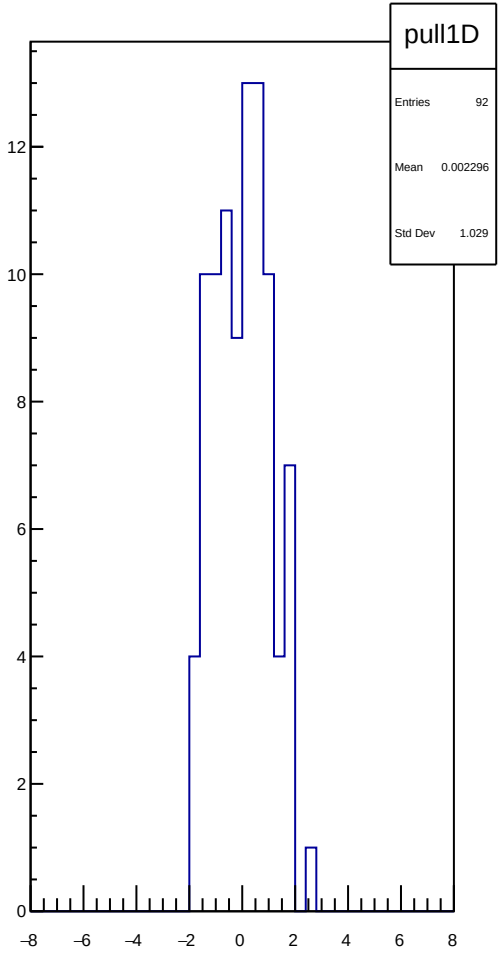

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 802 / 91
p0 2206 ± 1.652
2450
2400
2350
2300
2250
2200
2150

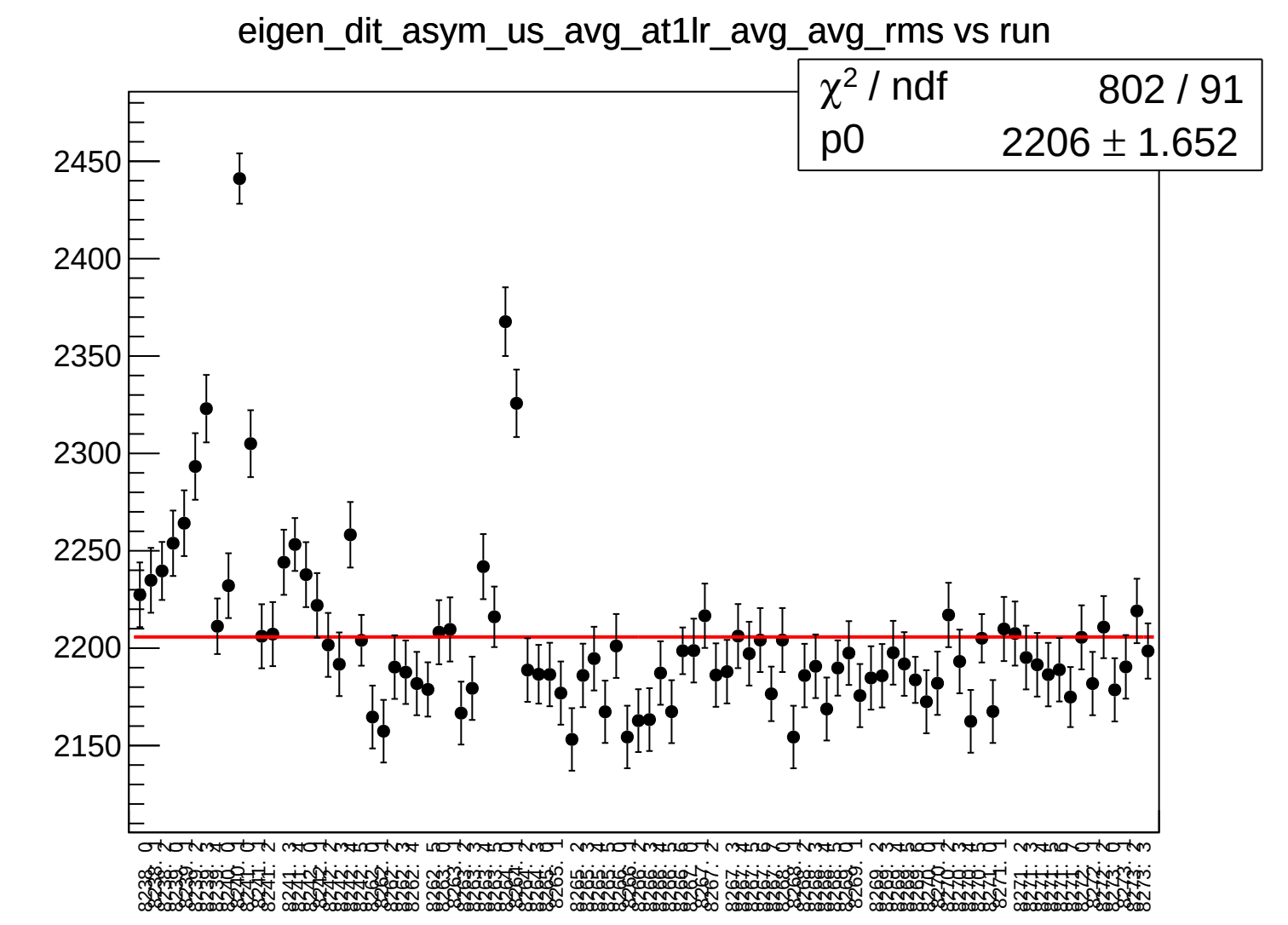

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 70.39 / 91
p0 6209 ± 3217
100
50
0
−50
−100
pull
Entries 92
Mean −498.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

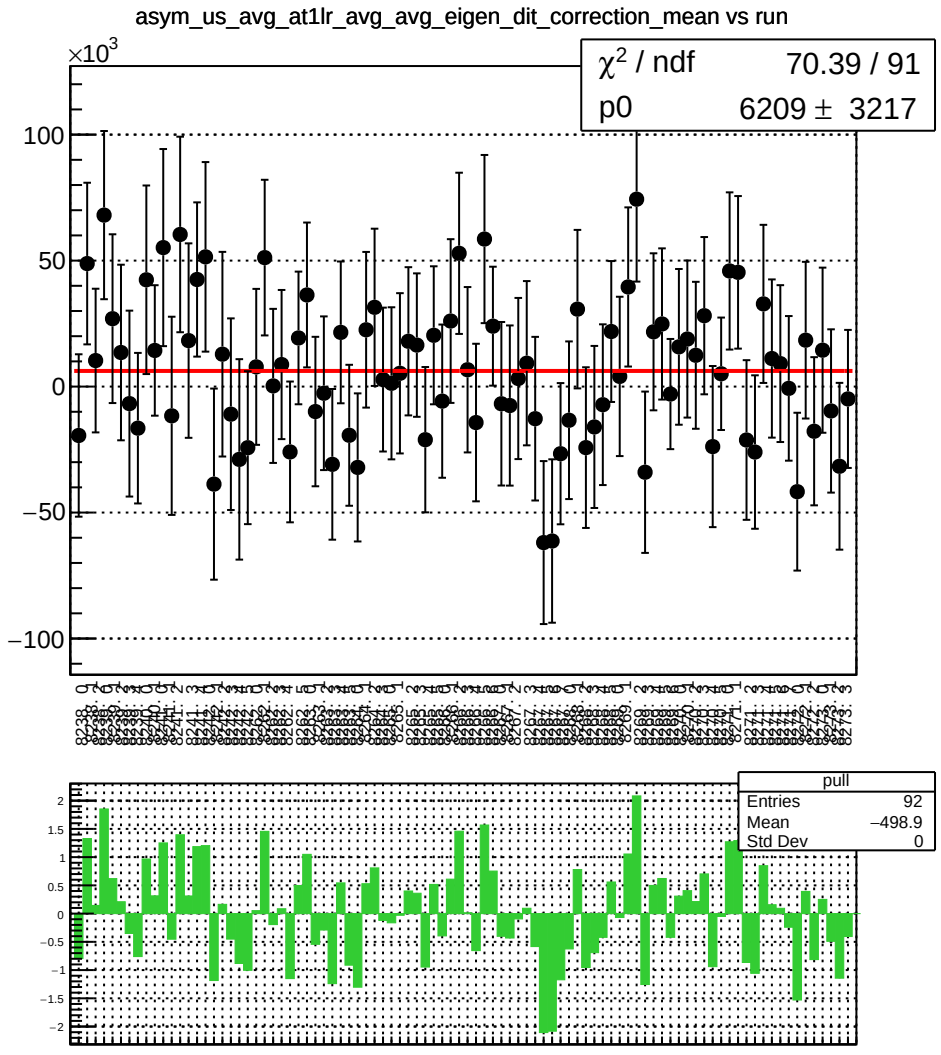

pull1D
Entries 92
Mean 0.006728
Std Dev 0.8747
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

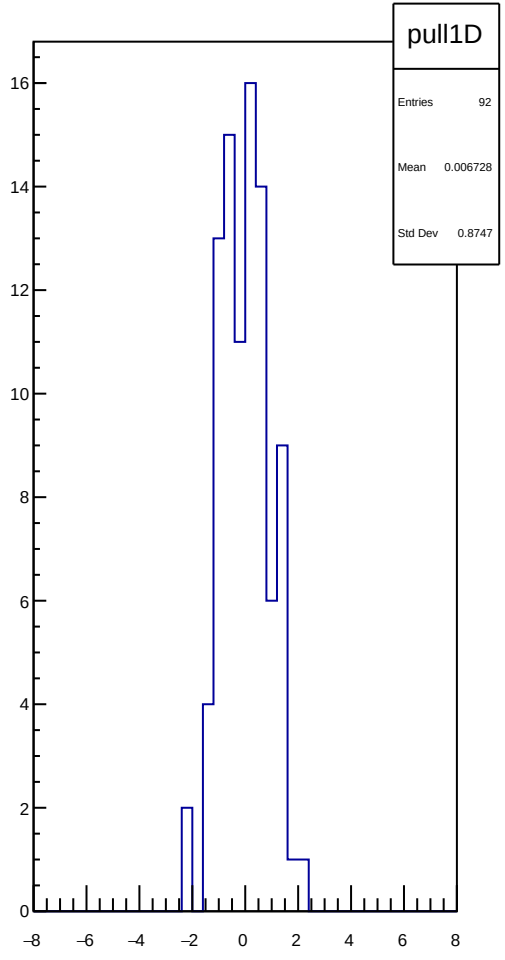

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.211e+04 / 91
p0 3027 ± 2.275
4000
3800
3600
3400
3200
3000
2800
2600

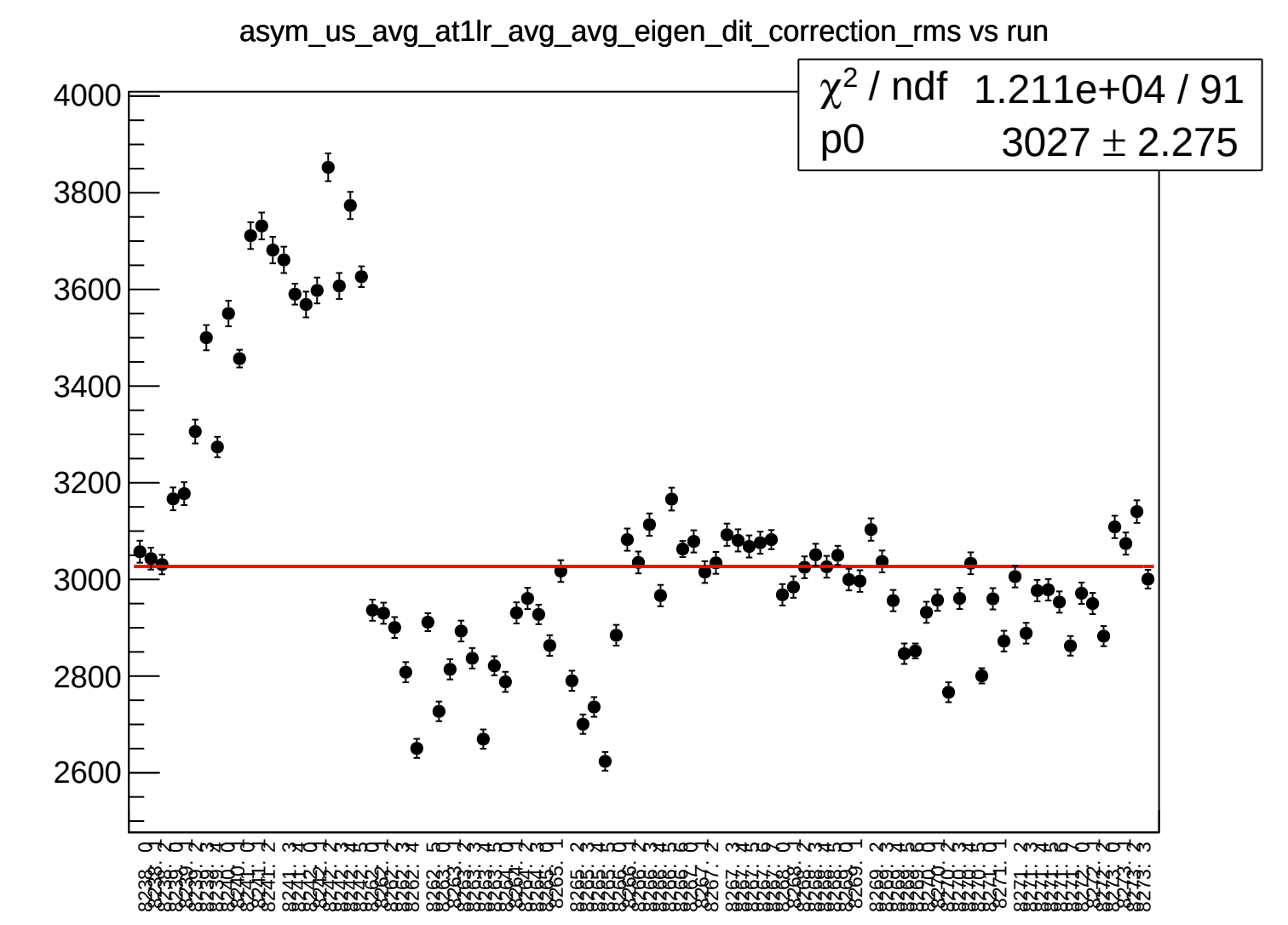

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 97.42 / 91
p0 5644 ± 2337
×10³
pull
Entries 92
Mean 745.1
Std Dev 0

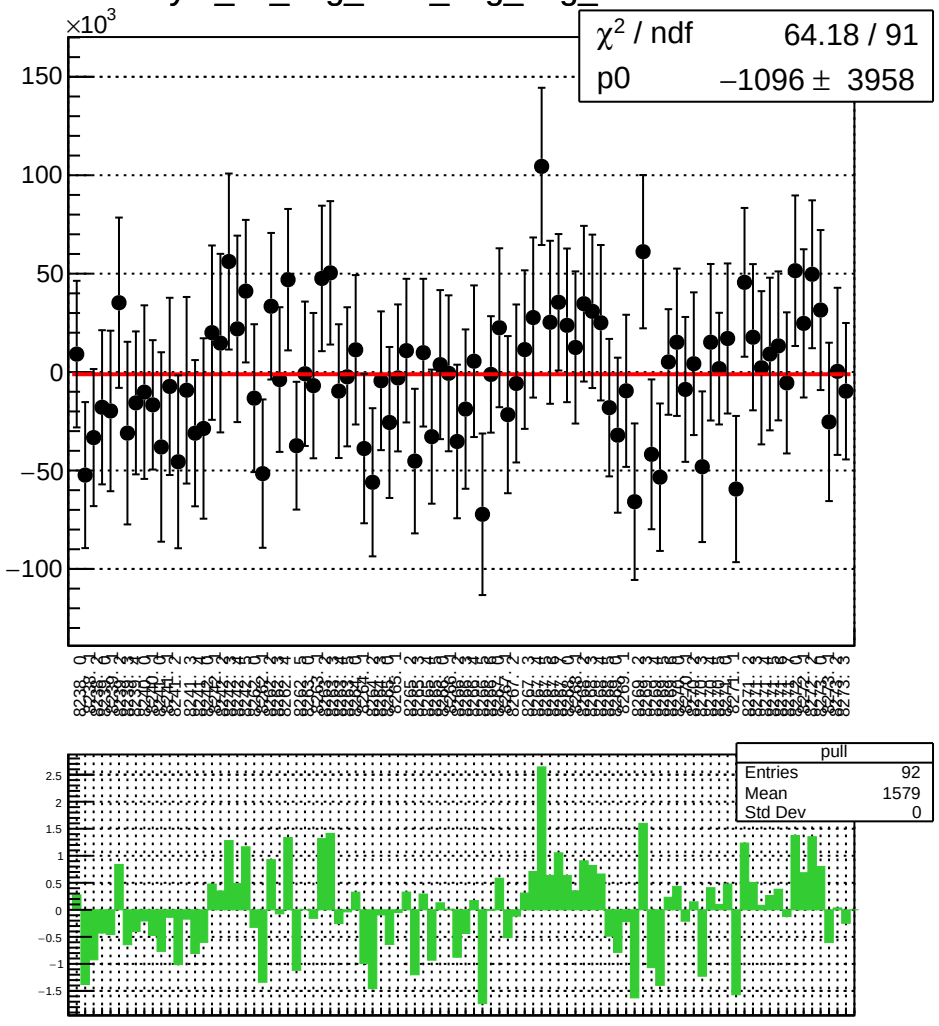

pull1D
Entries 92
Mean 0.002296
Std Dev 1.029

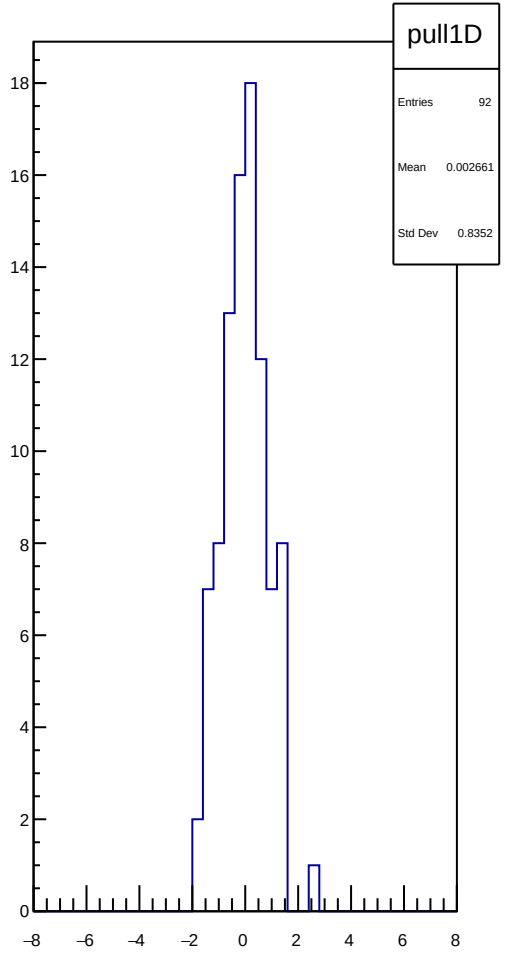

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
$\chi^2$ / ndf 802 / 91
p0 2206 ± 1.652
2450
2400
2350
2300
2250
2200
2150

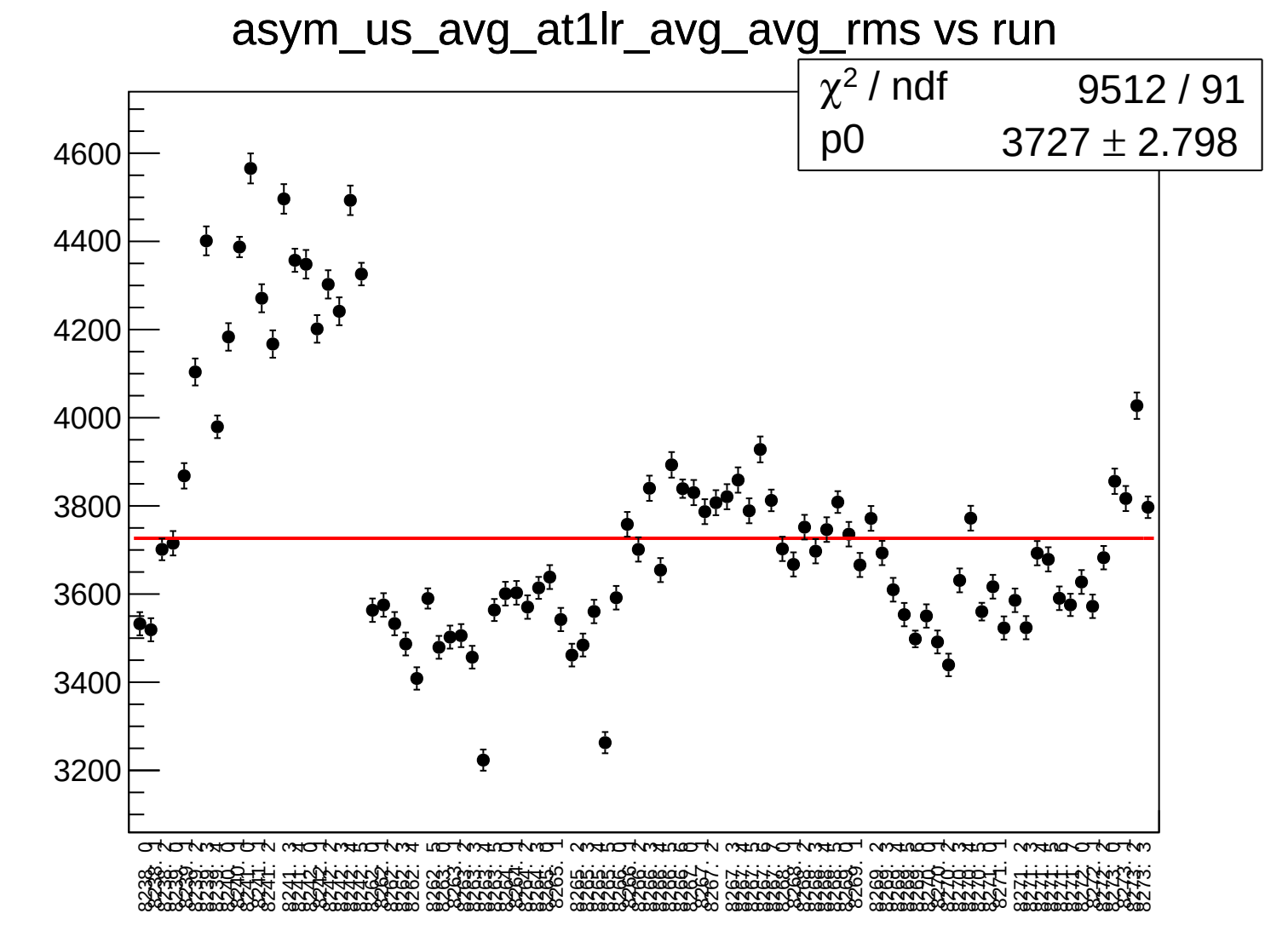

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 70.39 / 91
p0 6209 ± 3217
100
50
0
−50
−100
pull
Entries 92
Mean −498.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

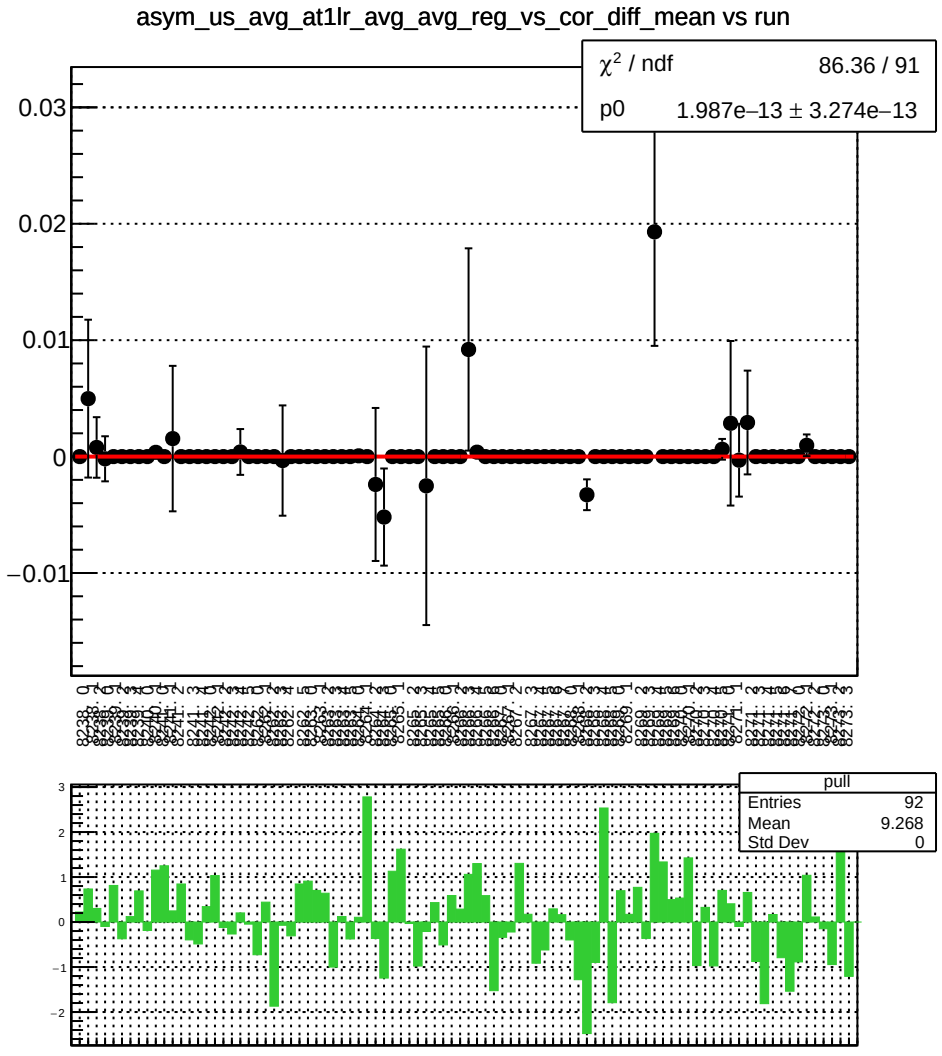

pull1D
Entries 92
Mean 0.006728
Std Dev 0.8747
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

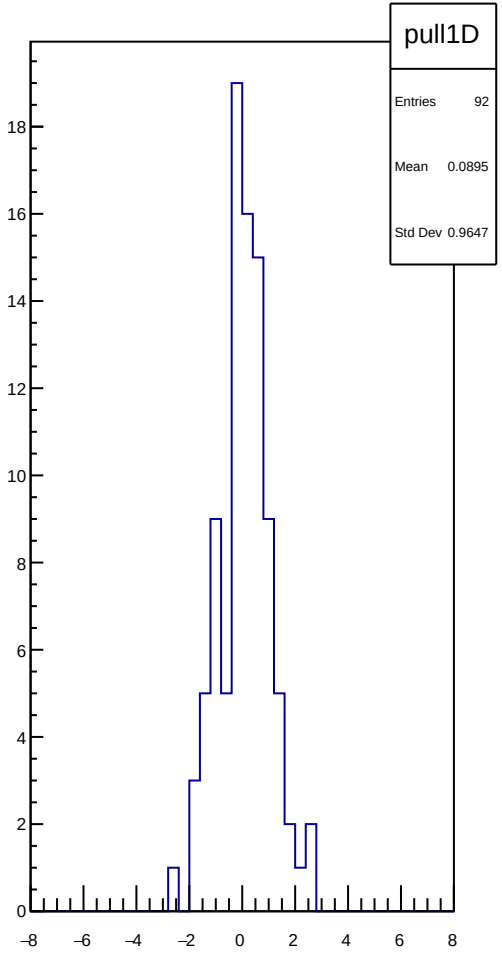

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
$\chi^2$ / ndf 1.211e+04 / 91
p0 3027 ± 2.275
4000
3800
3600
3400
3200
3000
2800
2600

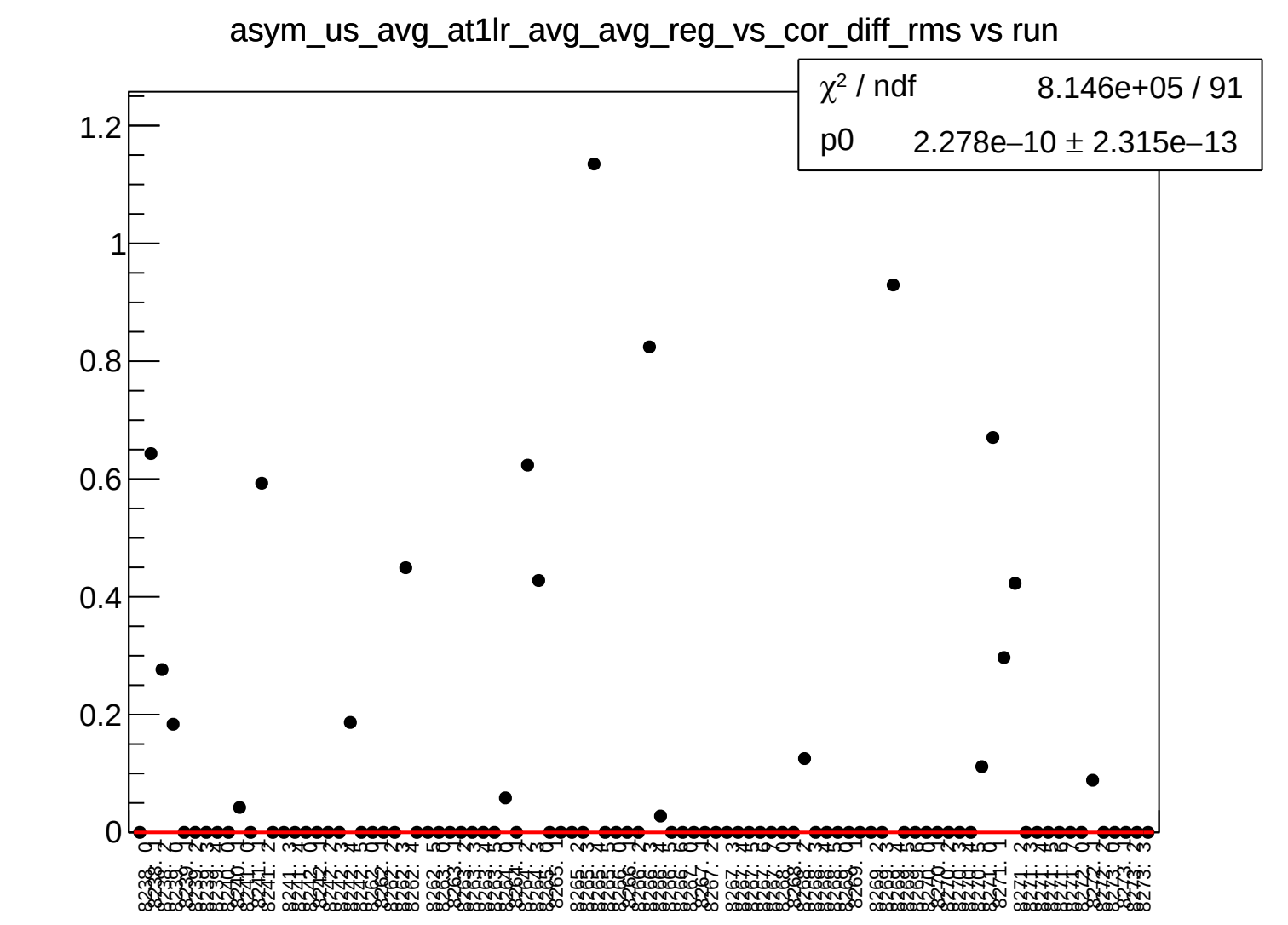

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 64.18 / 91
p0 −1096 ± 3958
150
100
50
0
−50
−100
pull
Entries 92
Mean 1579
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

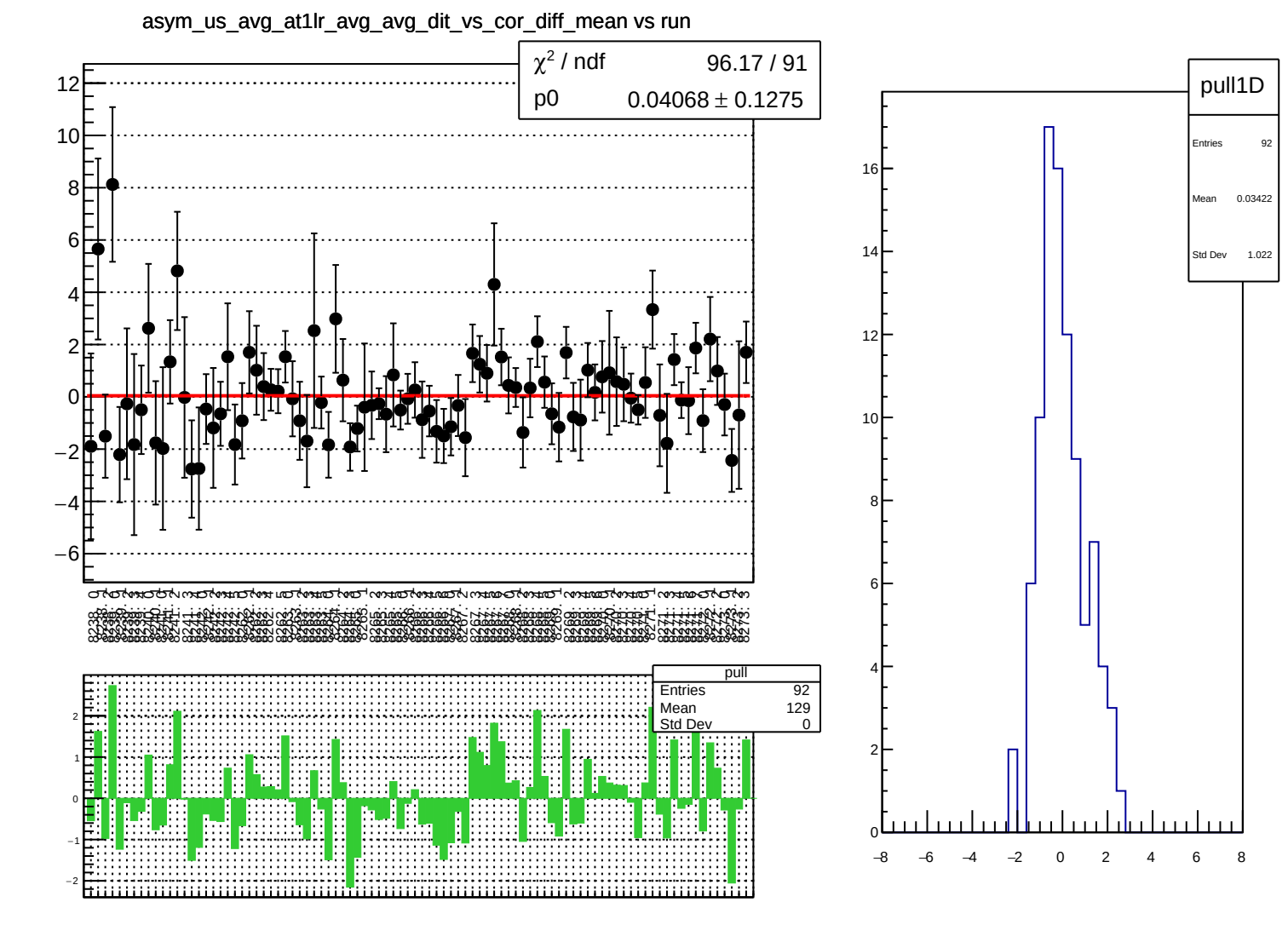

pull1D
Entries 92
Mean 0.002661
Std Dev 0.8352
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

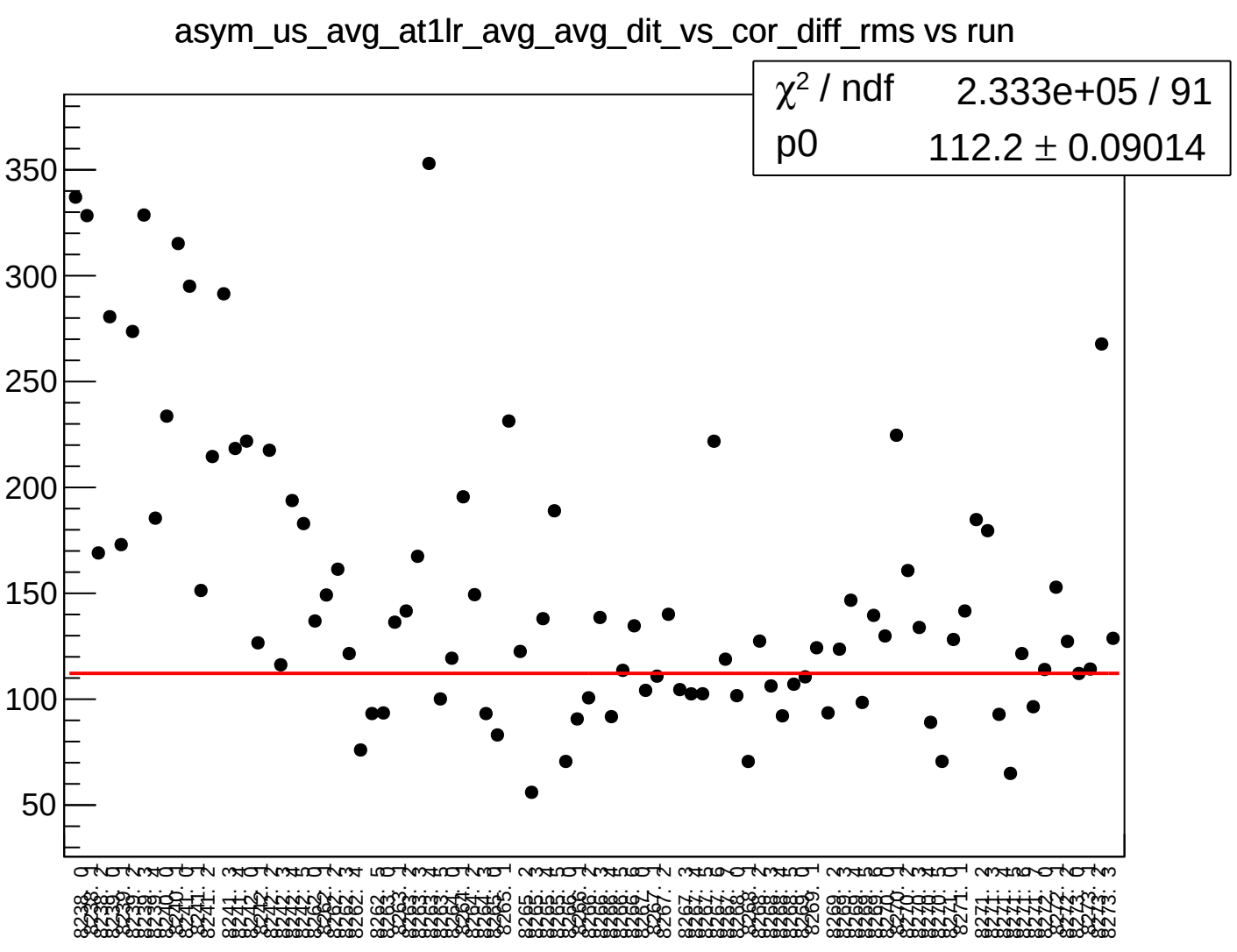

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 9512 / 91
p0 3727 ± 2.798
4600
4400
4200
4000
3800
3600
3400
3200

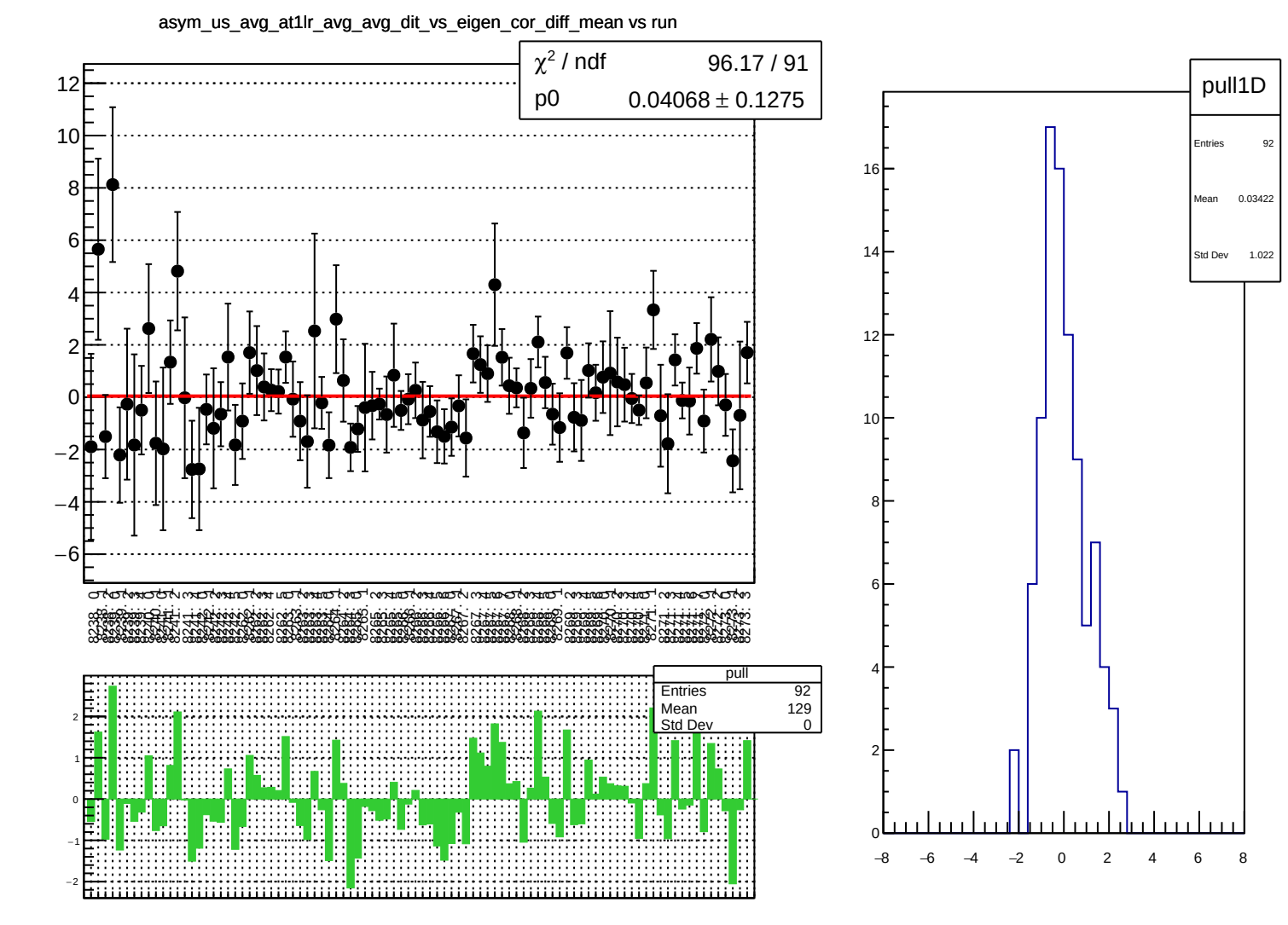

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.36 / 91
p0 1.987e−13 ± 3.274e−13
0.03
0.02
0.01
0
−0.01
pull
Entries 92
Mean 9.268
Std Dev 0
3
2
1
0
−1
−2

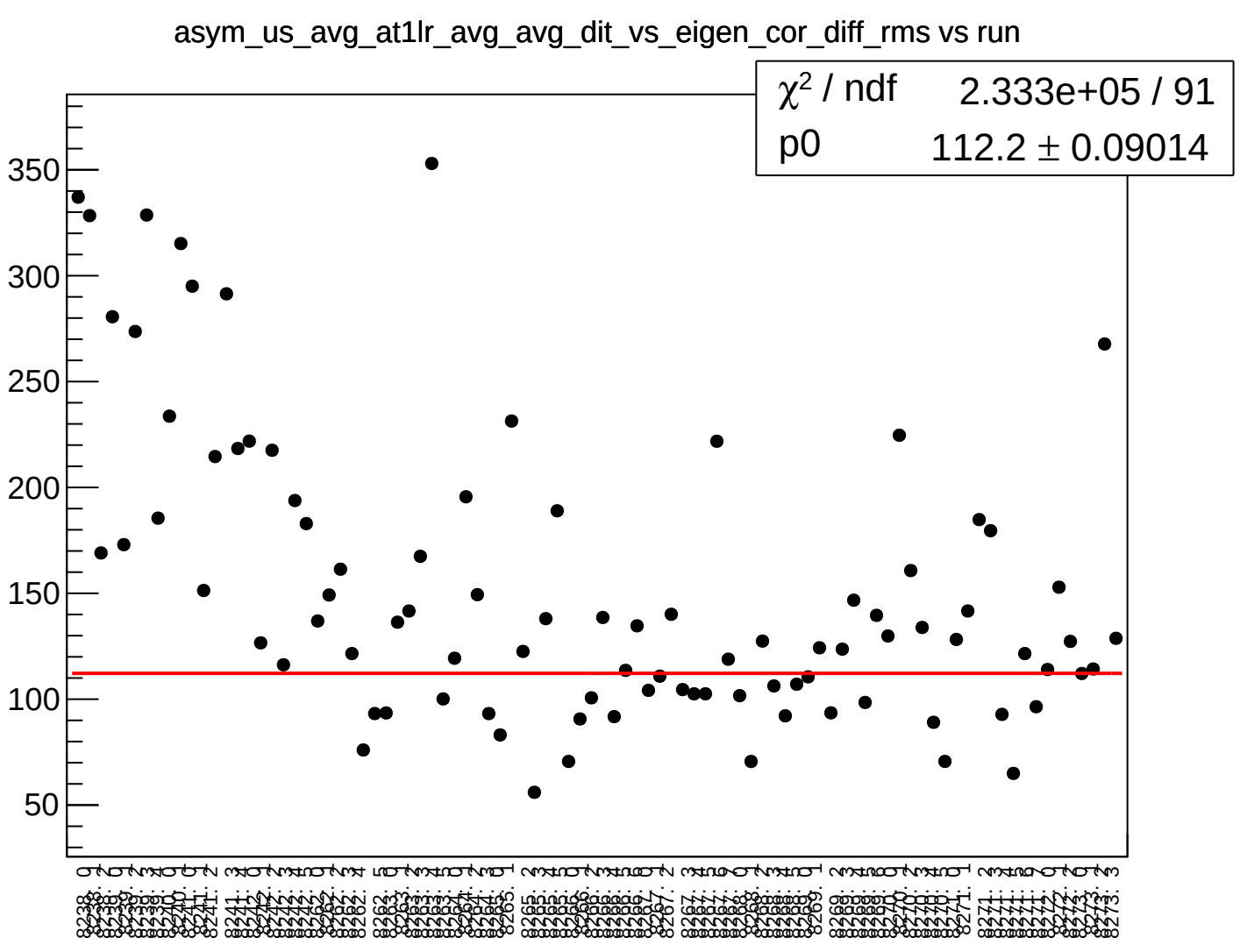

pull1D
Entries 92
Mean 0.0895
Std Dev 0.9647
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

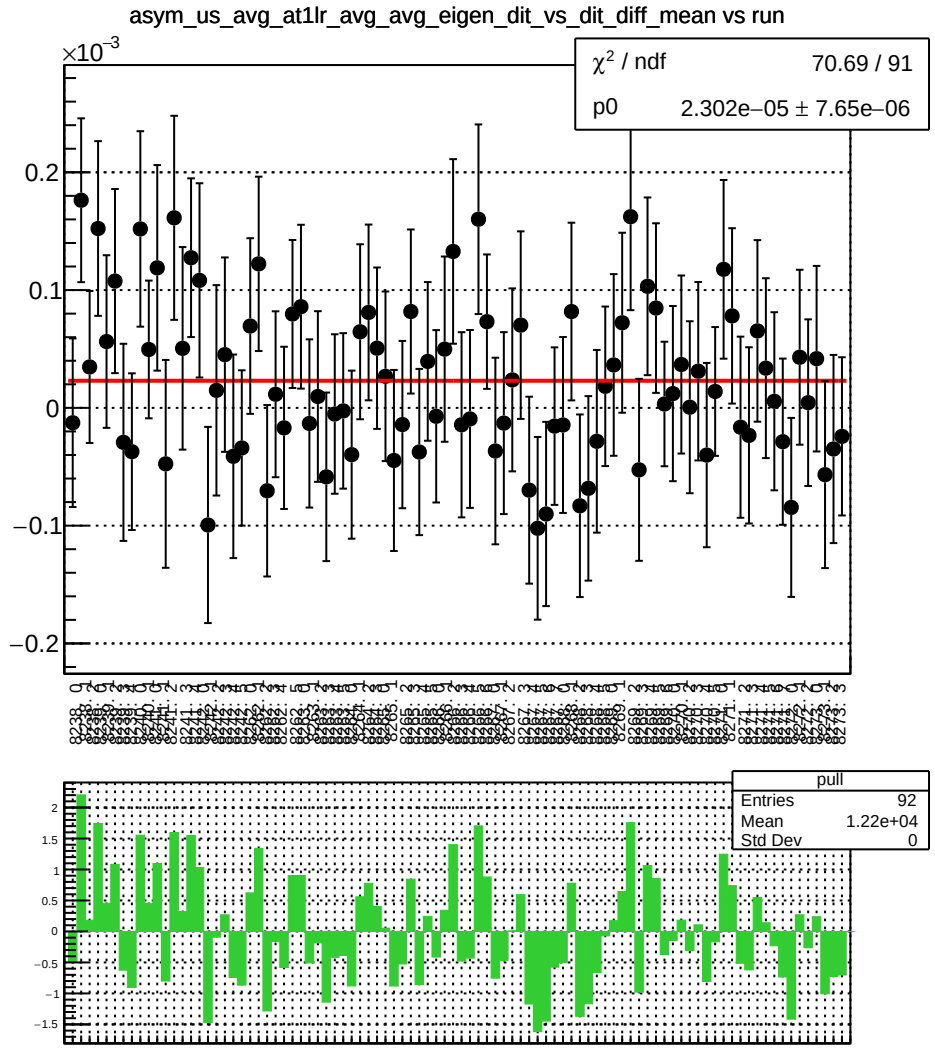

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.146e+05 / 91
p0 2.278e−10 ± 2.315e−13
1.2
1
0.8
0.6
0.4
0.2
0

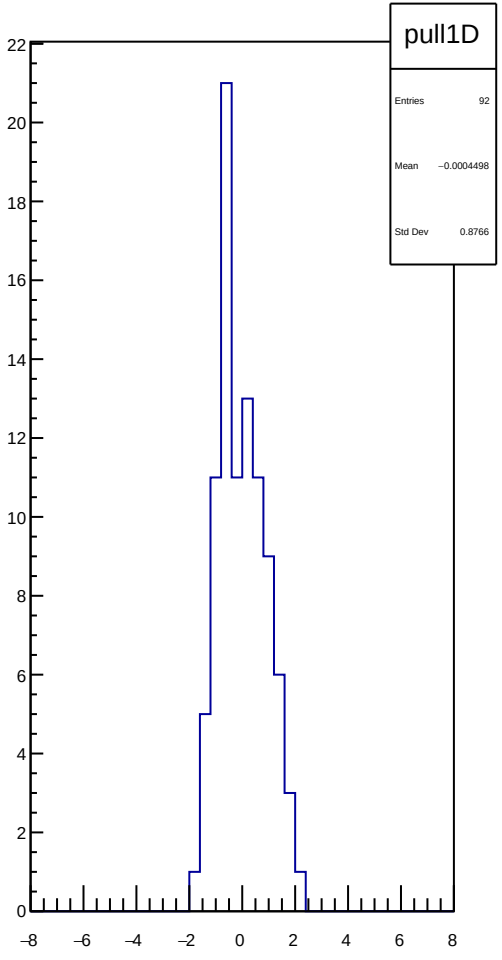

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 96.17 / 91
p0 0.04068 ± 0.1275
pull
Entries 92
Mean 129
Std Dev 0
pull1D
Entries 92
Mean 0.03422
Std Dev 1.022

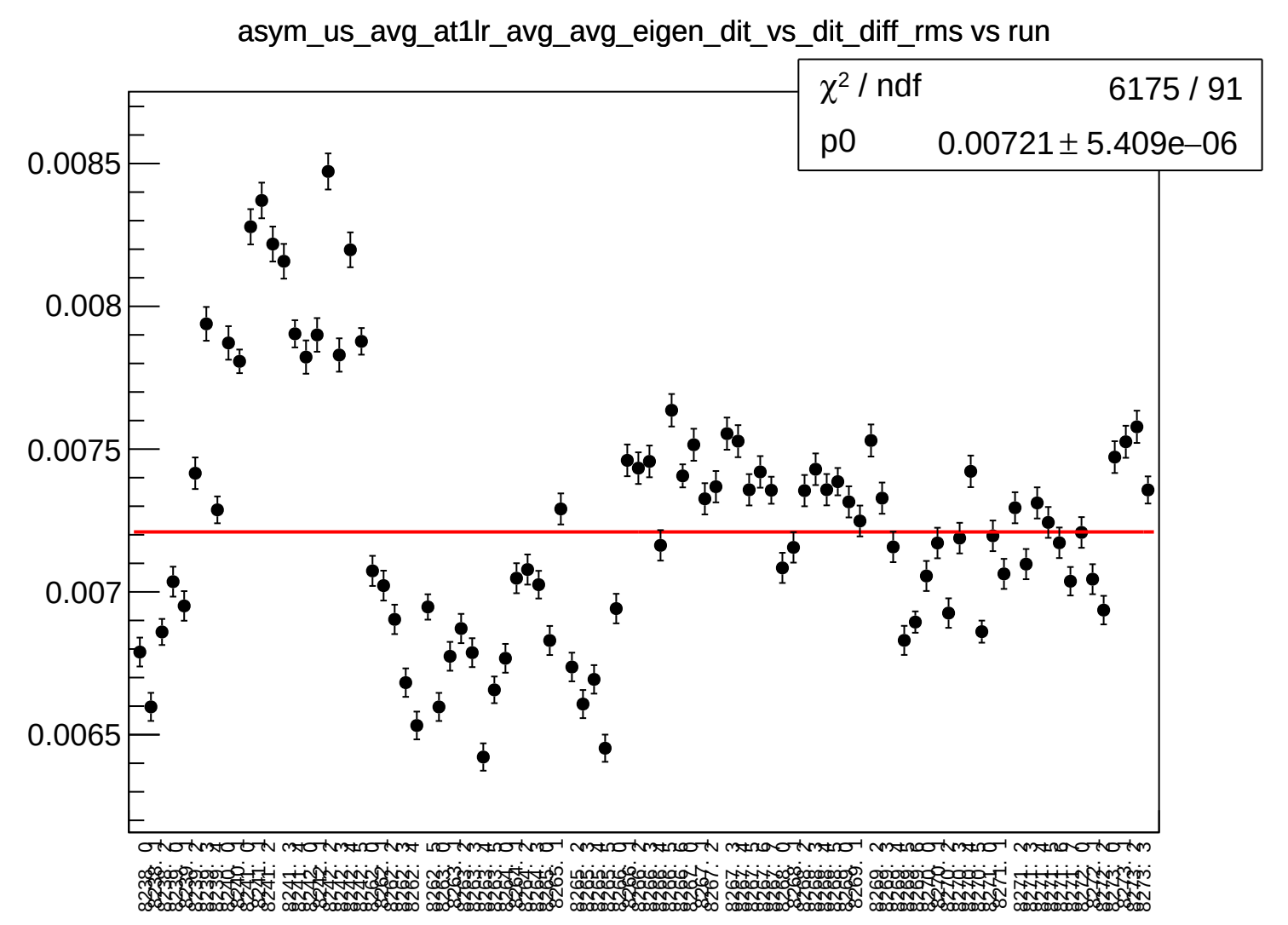

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.333e+05 / 91
p0 112.2 ± 0.09014
350
300
250
200
150
100
50

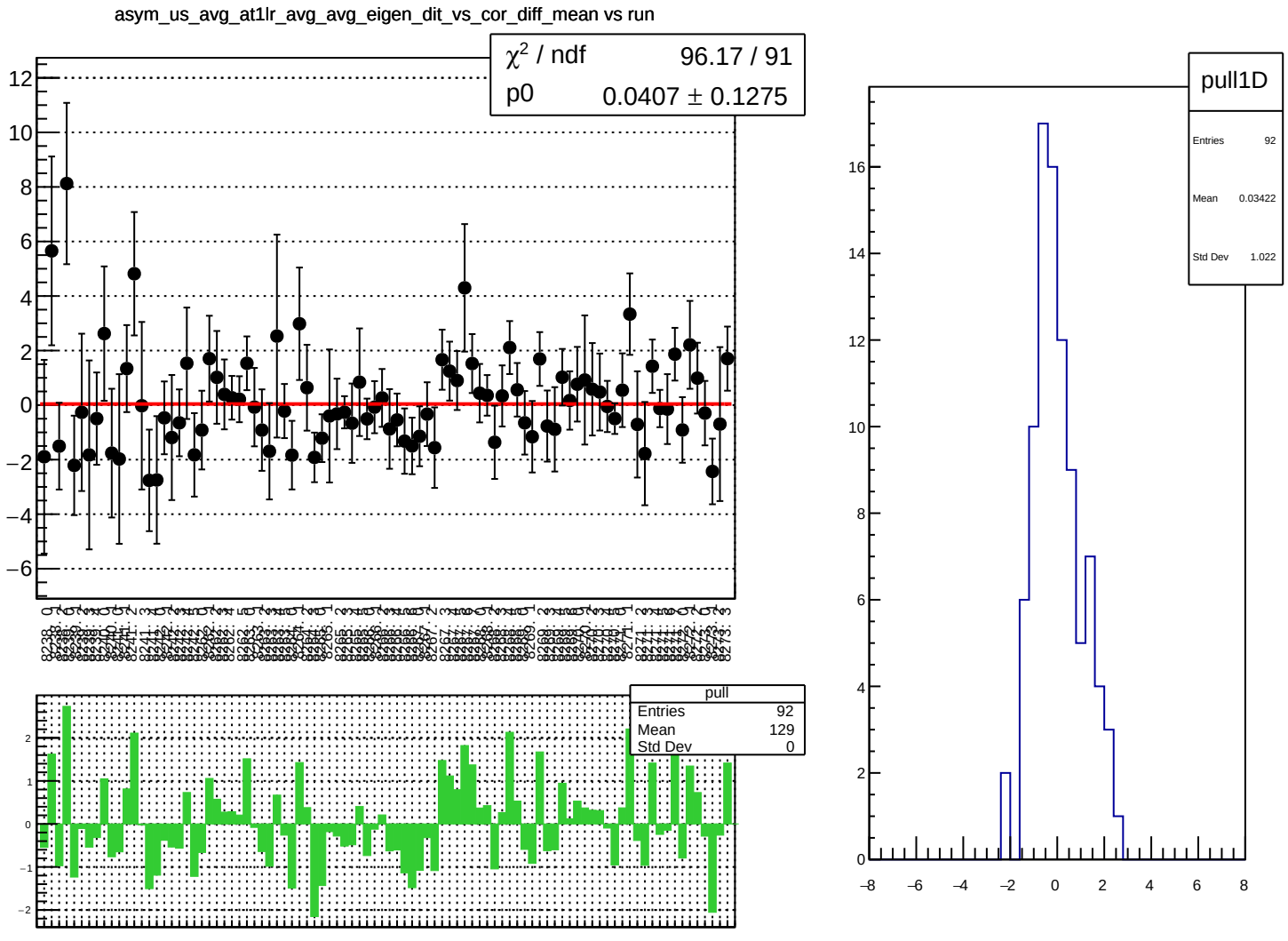

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.17 / 91
p0 0.04068 ± 0.1275
pull
Entries 92
Mean 129
Std Dev 0
pull1D
Entries 92
Mean 0.03422
Std Dev 1.022

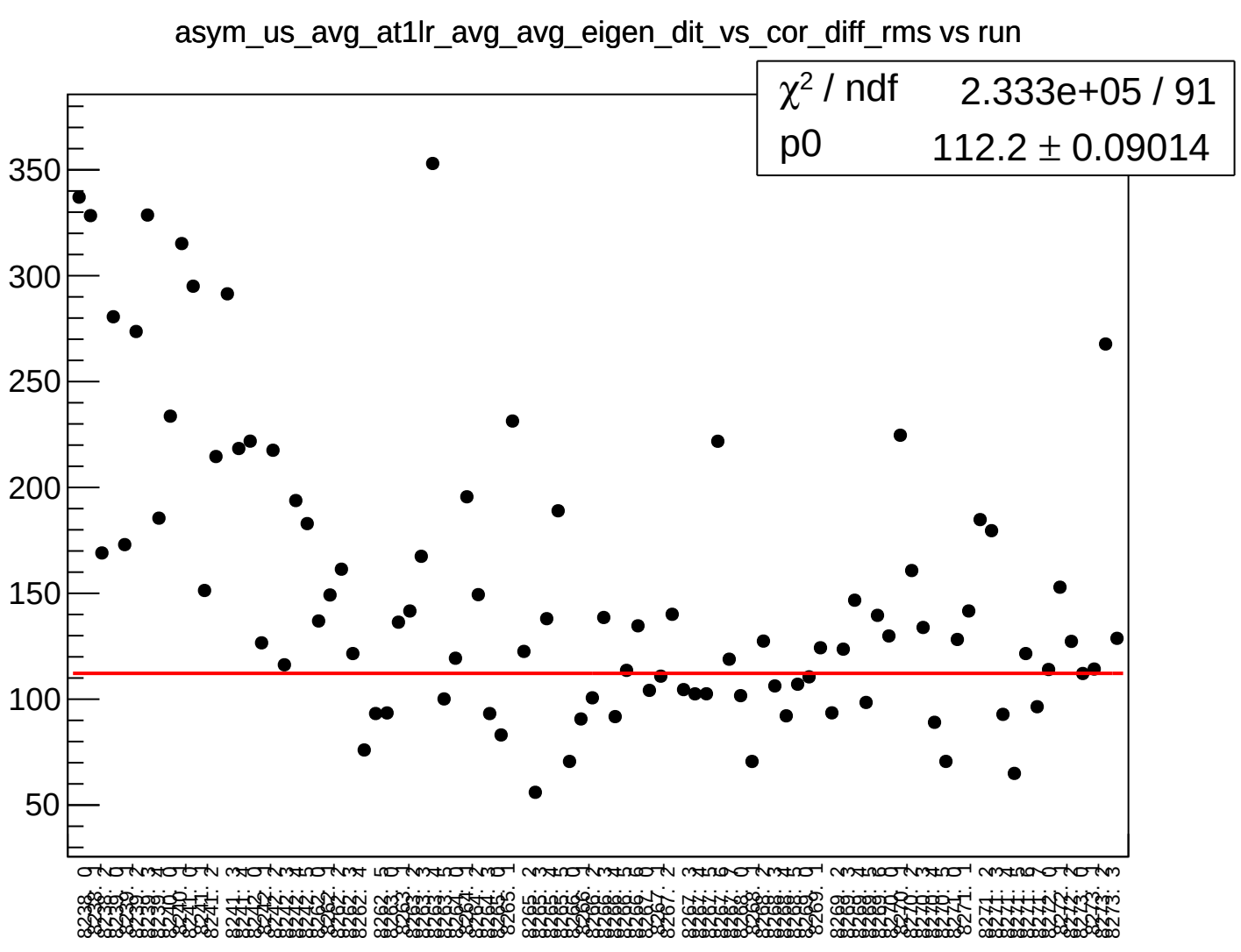

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.333e+05 / 91
p0 112.2 ± 0.09014
350
300
250
200
150
100
50

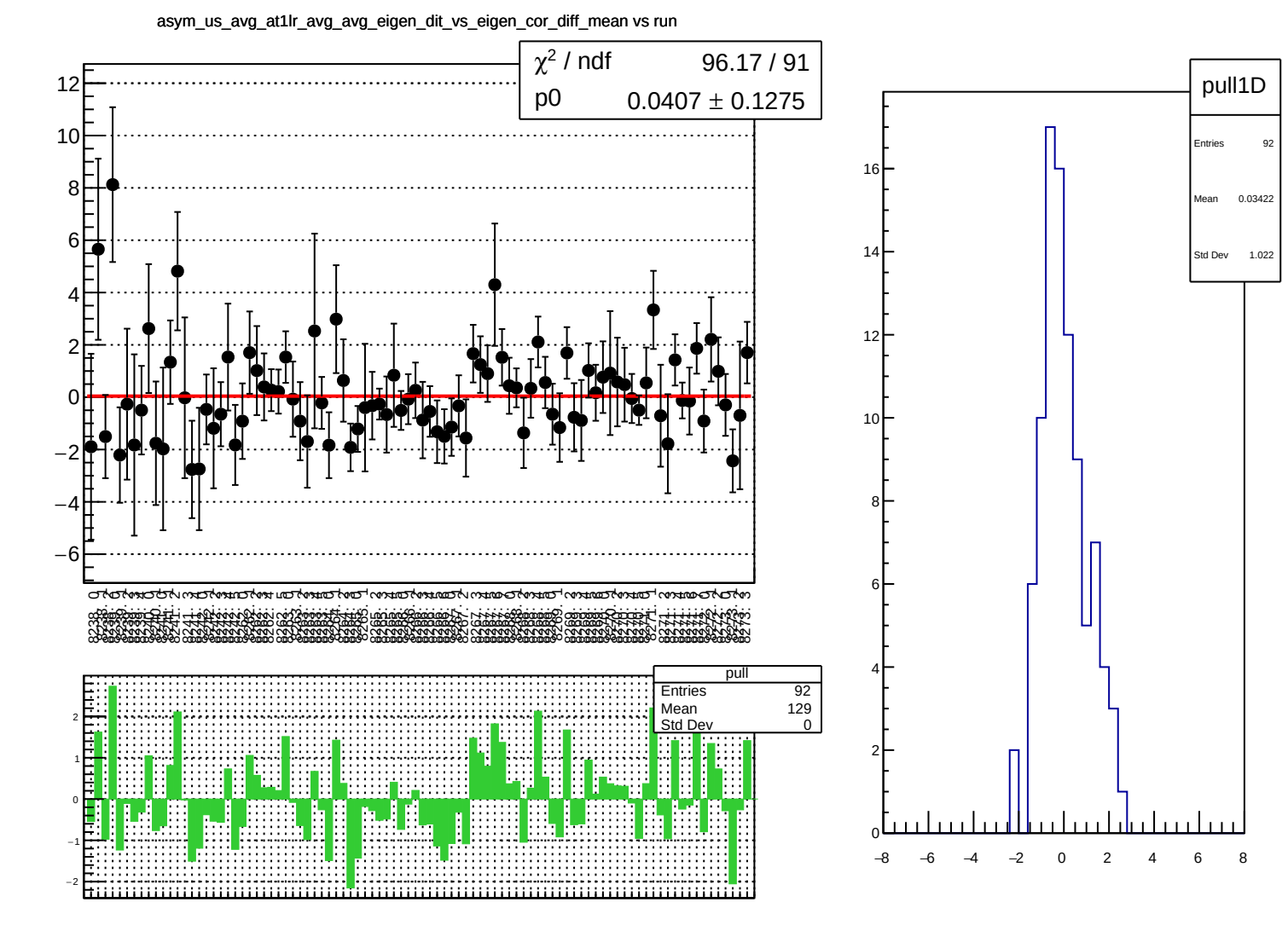

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 70.69 / 91
p0 2.302e−05 ± 7.65e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 92
Mean 1.22e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

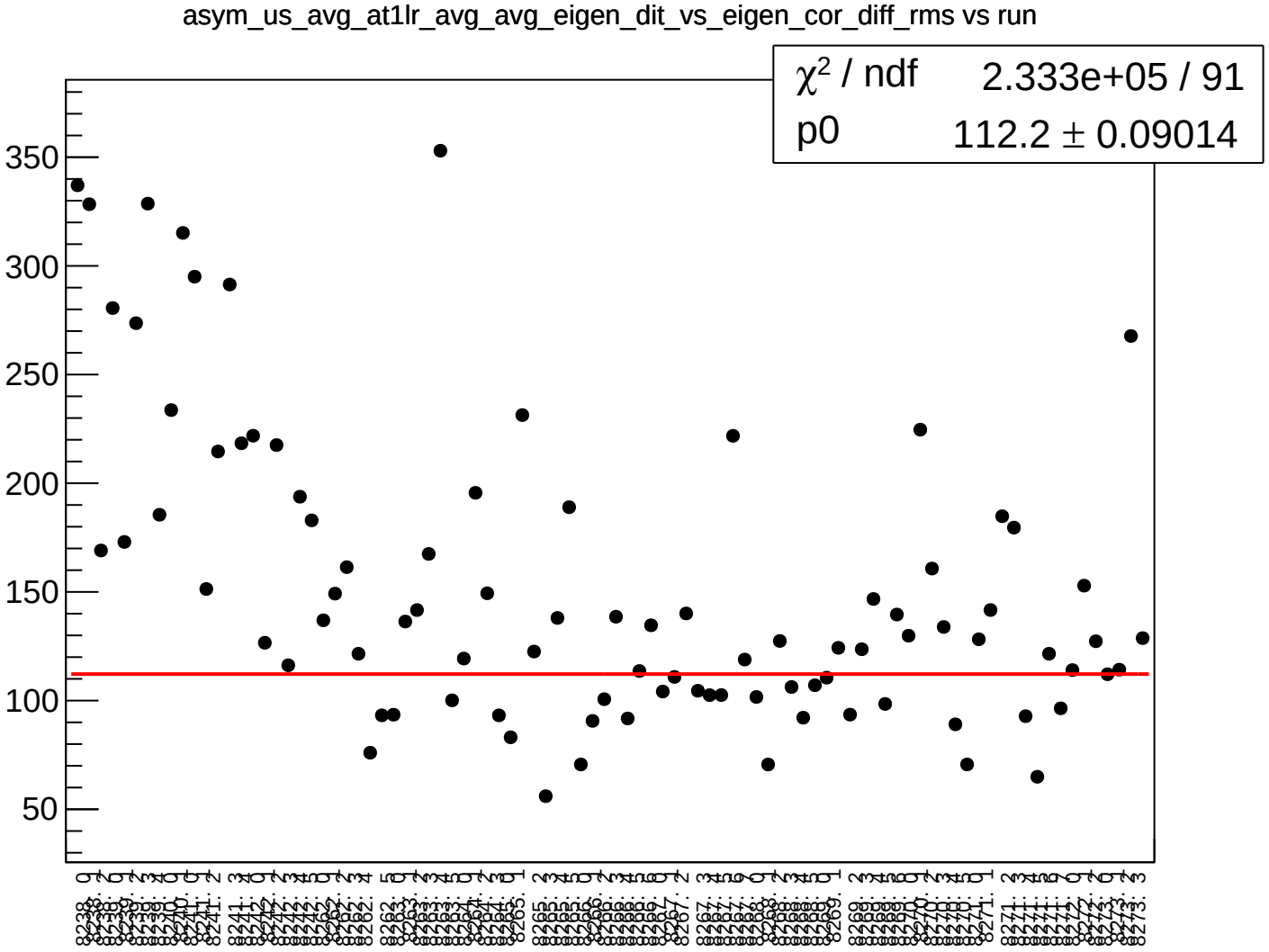

pull1D
Entries 92
Mean −0.0004498
Std Dev 0.8766
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

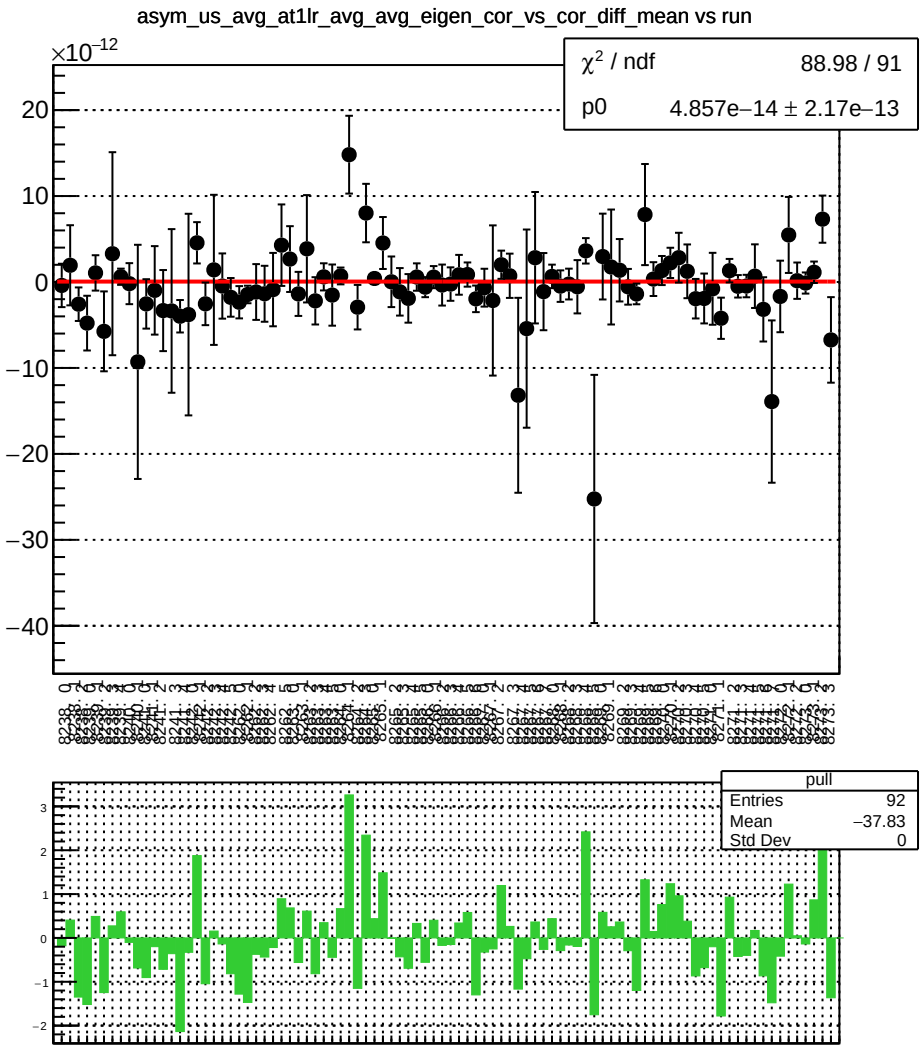

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6175 / 91
p0 0.00721 ± 5.409e−06
0.0085
0.008
0.0075
0.007
0.0065

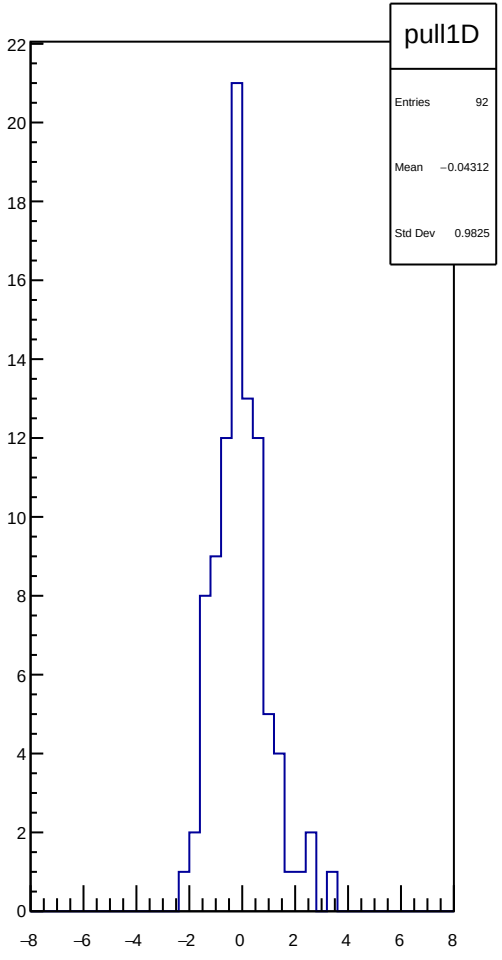

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.17 / 91
p0 0.0407 ± 0.1275
pull
Entries 92
Mean 129
Std Dev 0
pull1D
Entries 92
Mean 0.03422
Std Dev 1.022

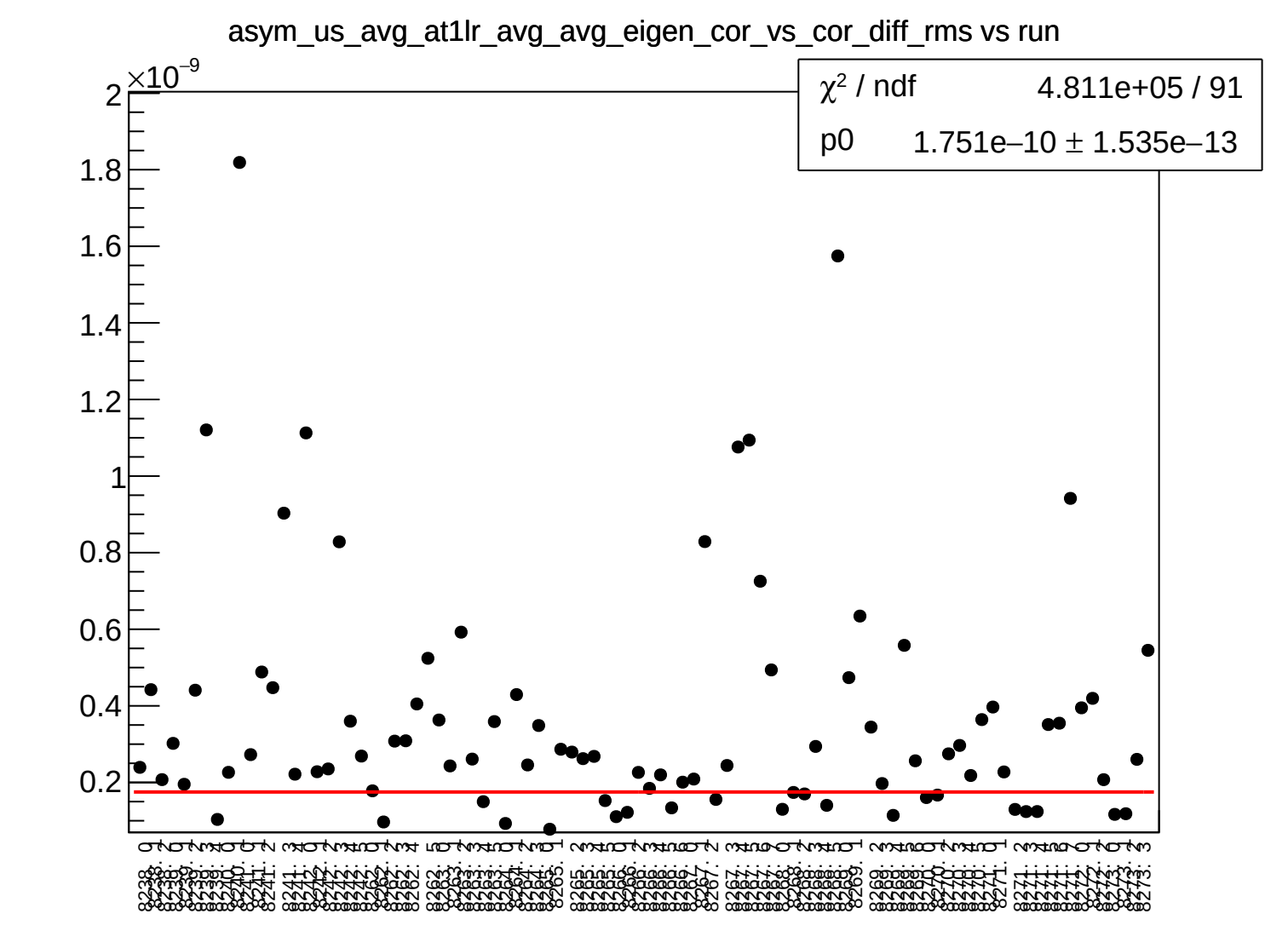

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.333e+05 / 91
p0 112.2 ± 0.09014
350
300
250
200
150
100
50

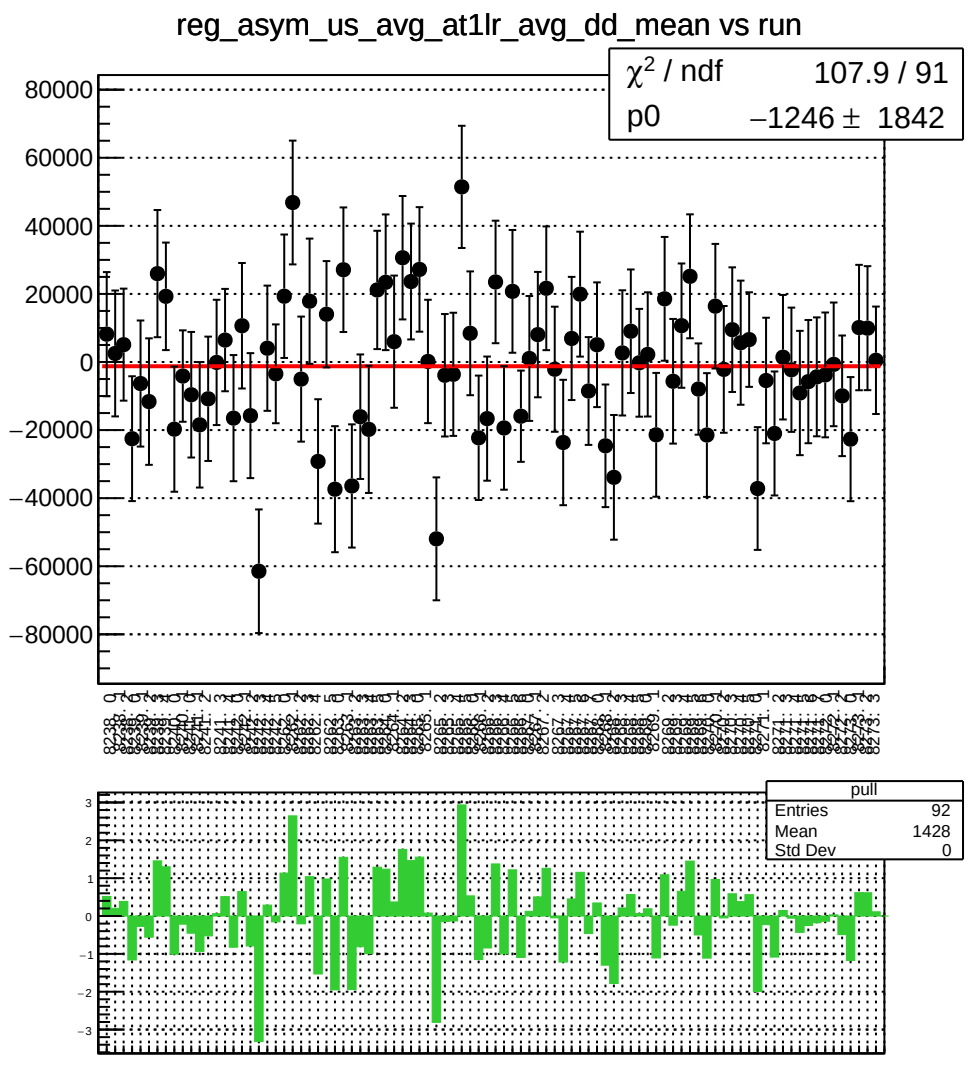

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.17 / 91
p0 0.0407 ± 0.1275
pull
Entries 92
Mean 129
Std Dev 0
pull1D
Entries 92
Mean 0.03422
Std Dev 1.022

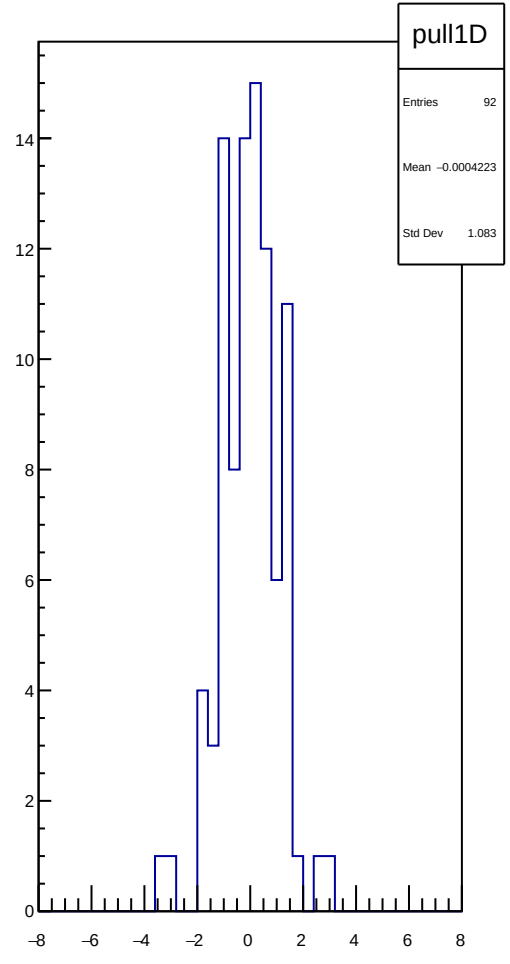

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.333e+05 / 91
p0 112.2 ± 0.09014
350
300
250
200
150
100
50

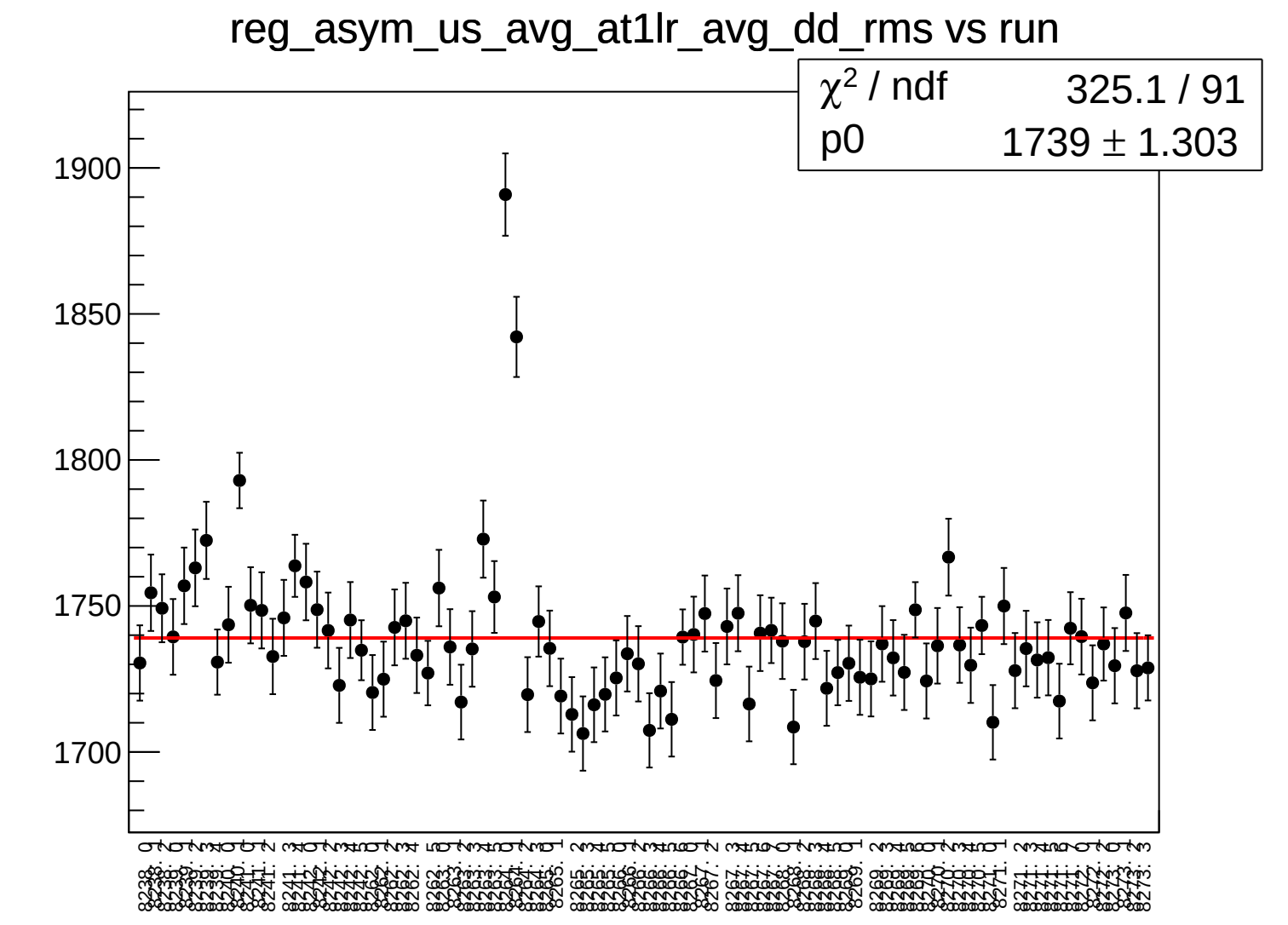

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.98 / 91
p0 4.857e−14 ± 2.17e−13
pull
Entries 92
Mean −37.83
Std Dev 0

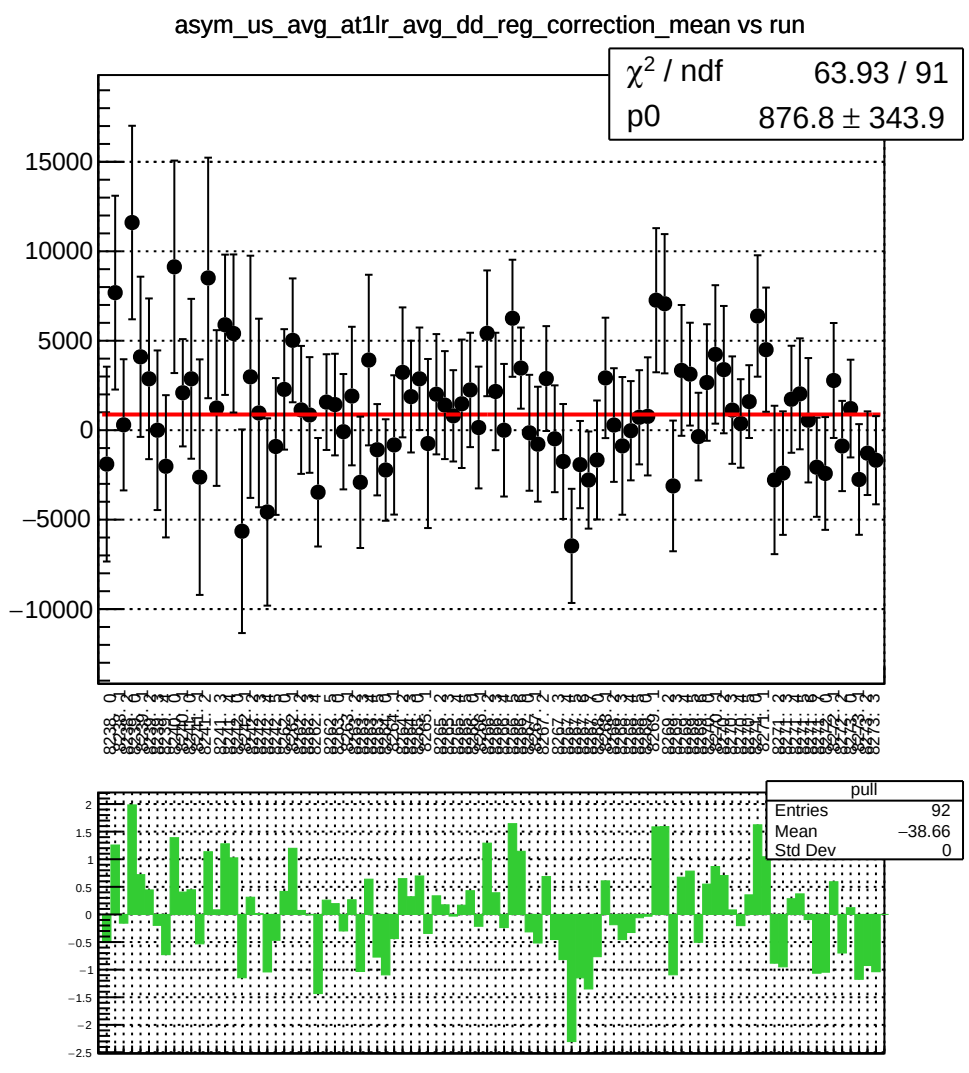

pull1D
Entries 92
Mean −0.04312
Std Dev 0.9825

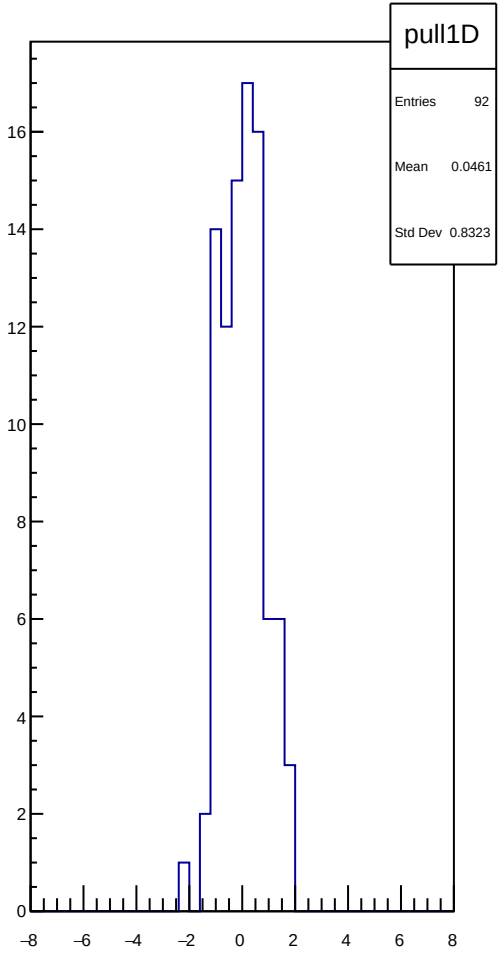

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 4.811e+05 / 91
p0 1.751e−10 ± 1.535e−13

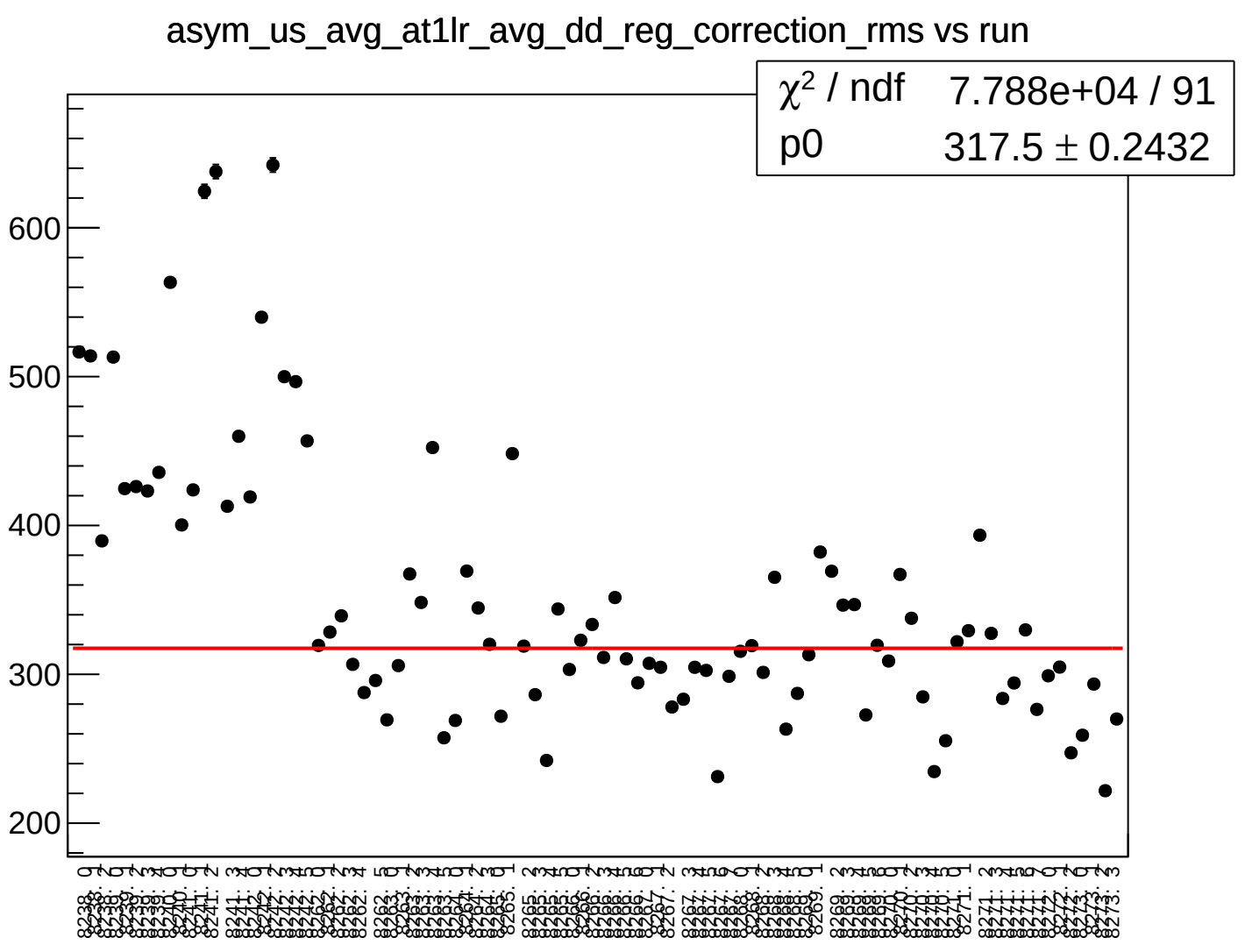

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 107.9 / 91
p0 −1246 ± 1842
pull
Entries 92
Mean 1428
Std Dev 0

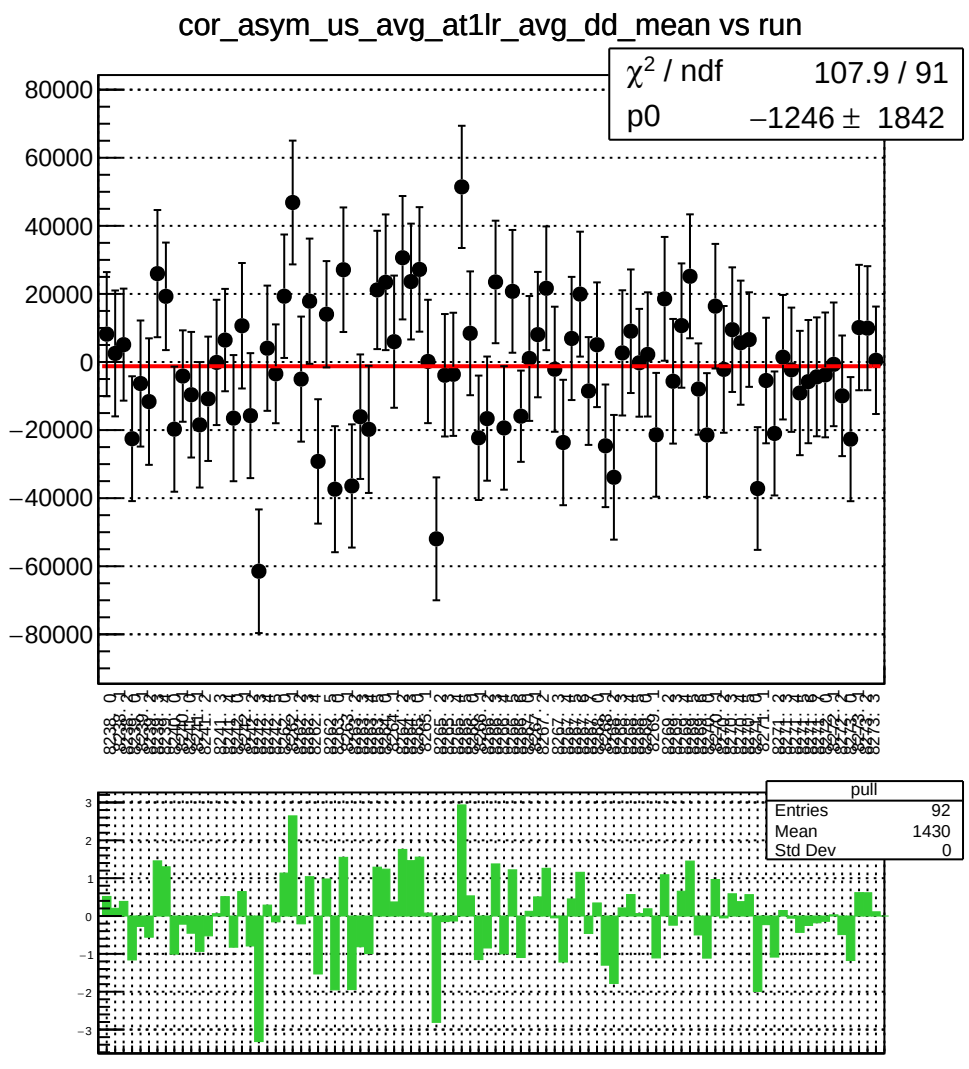

pull1D
Entries 92
Mean −0.0004223
Std Dev 1.083

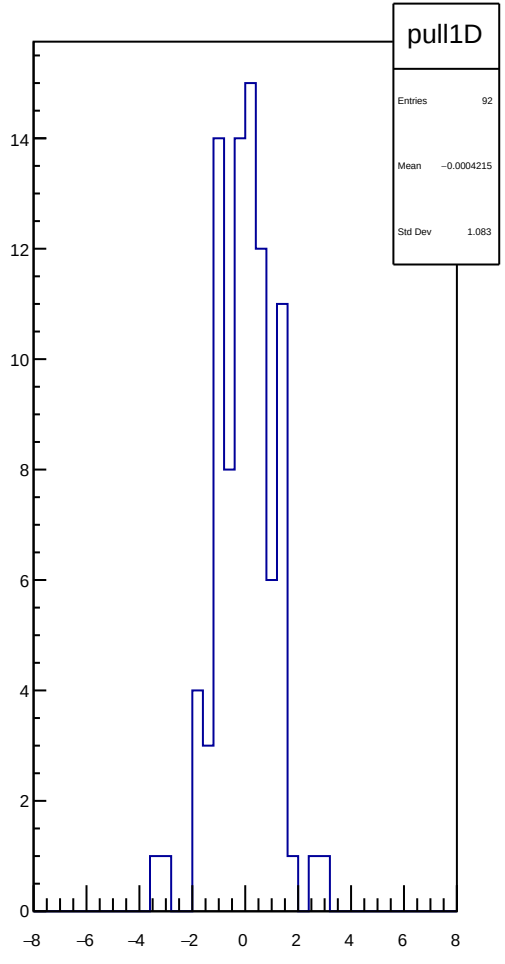

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 325.1 / 91
p0 1739 ± 1.303
1900
1850
1800
1750
1700

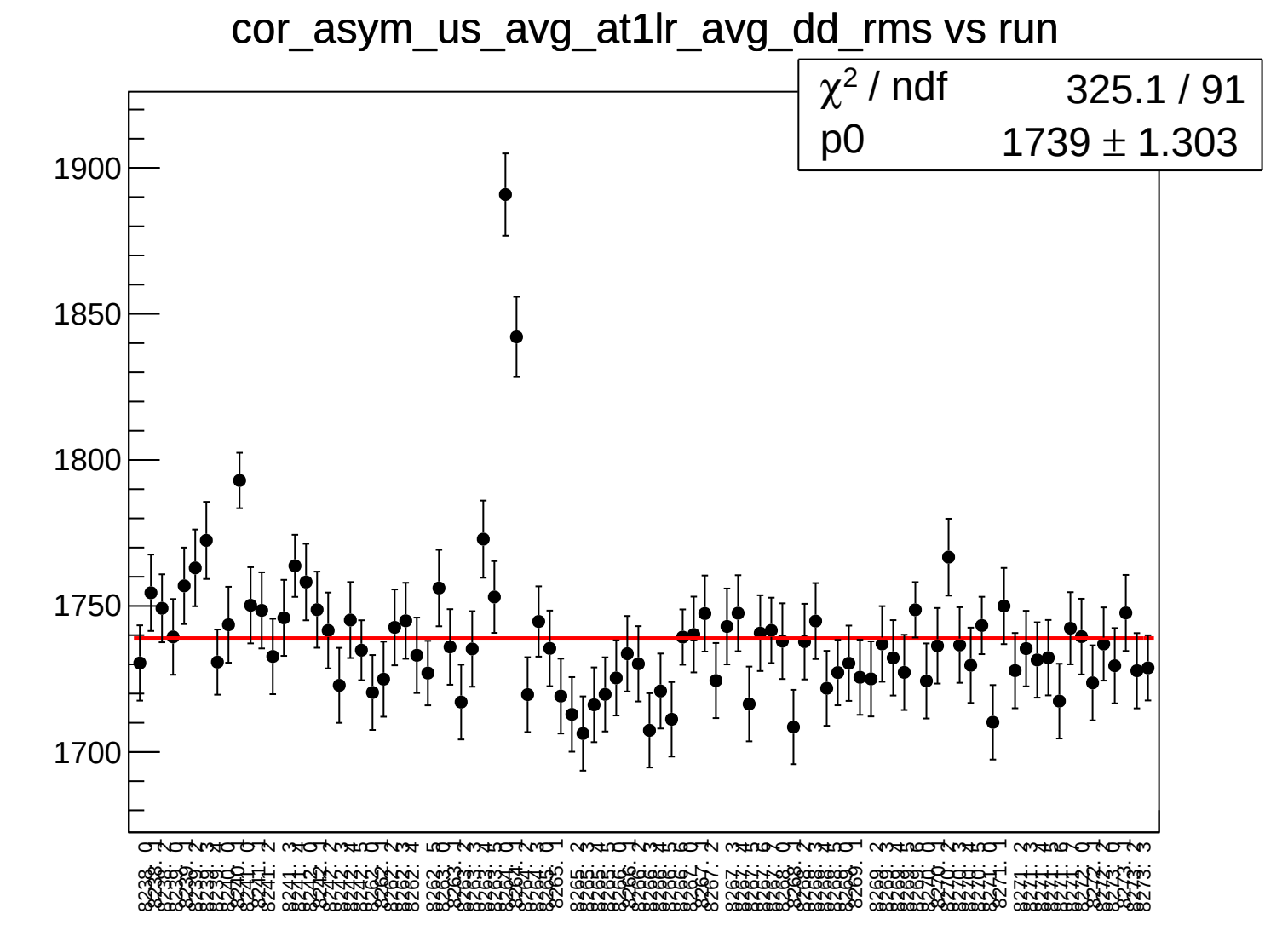

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 63.93 / 91
p0 876.8 ± 343.9
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −38.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

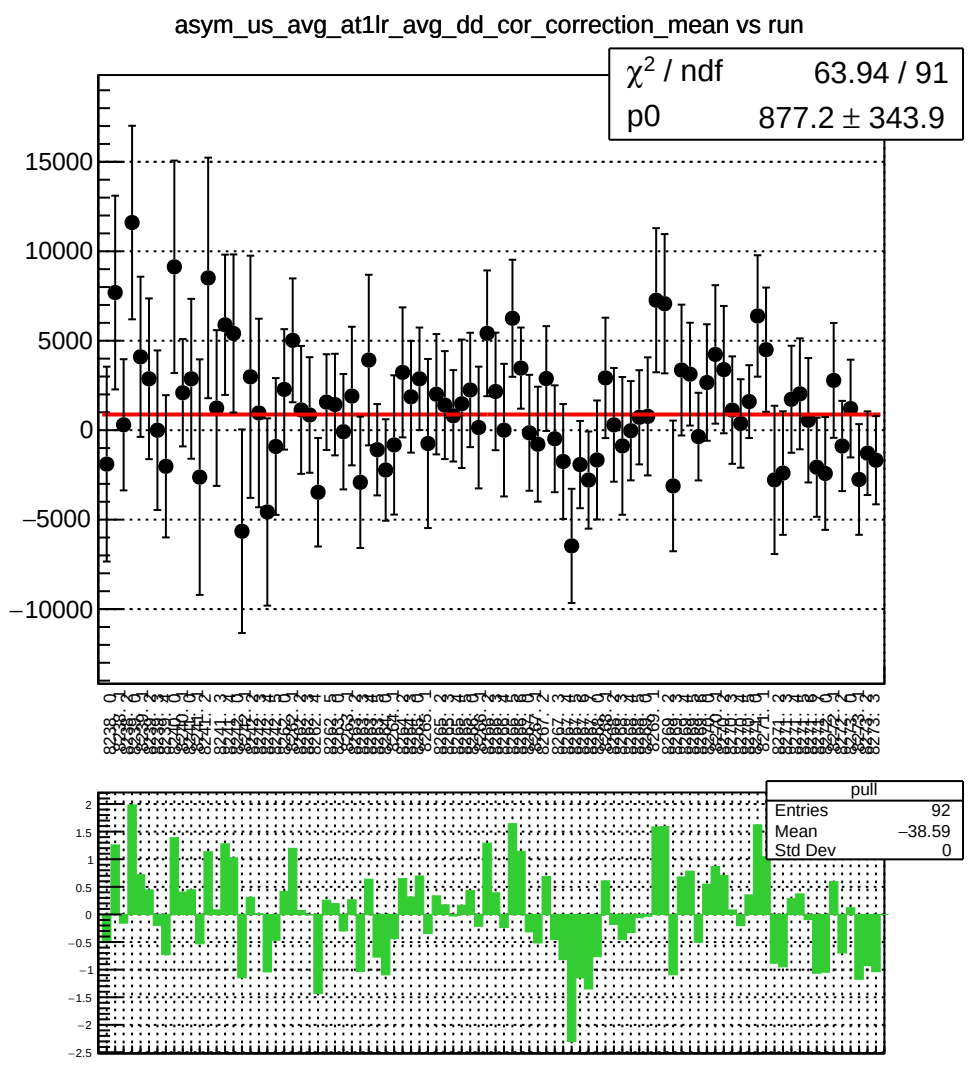

pull1D
Entries 92
Mean 0.0461
Std Dev 0.8323
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

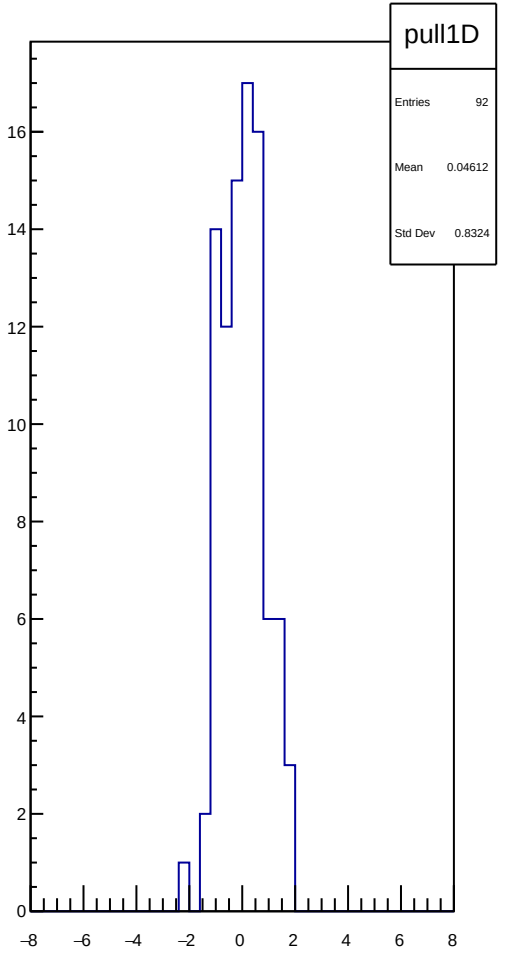

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 7.788e+04 / 91
p0 317.5 ± 0.2432
600
500
400
300
200

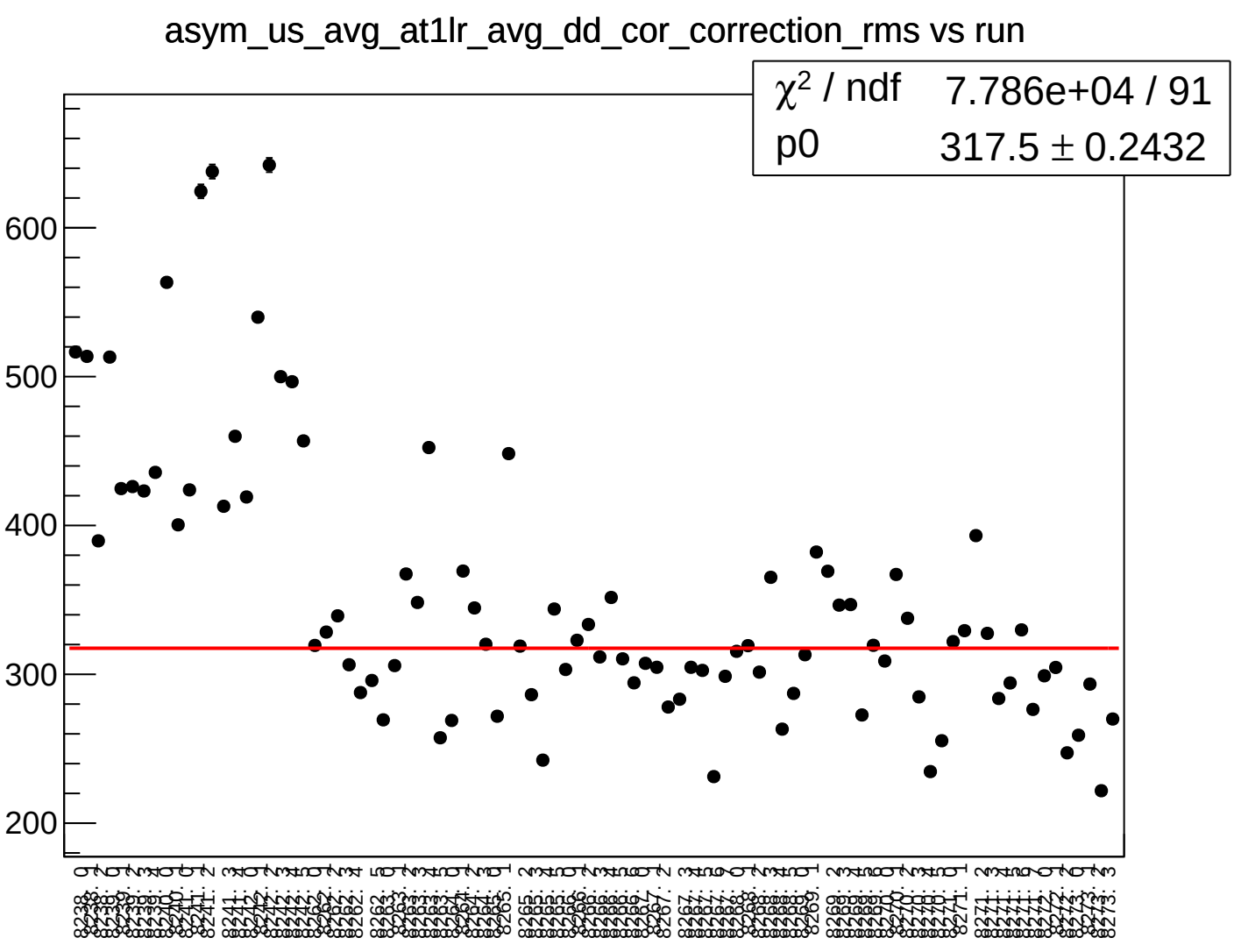

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 107.9 / 91
p0 −1246 ± 1842
pull
Entries 92
Mean 1430
Std Dev 0

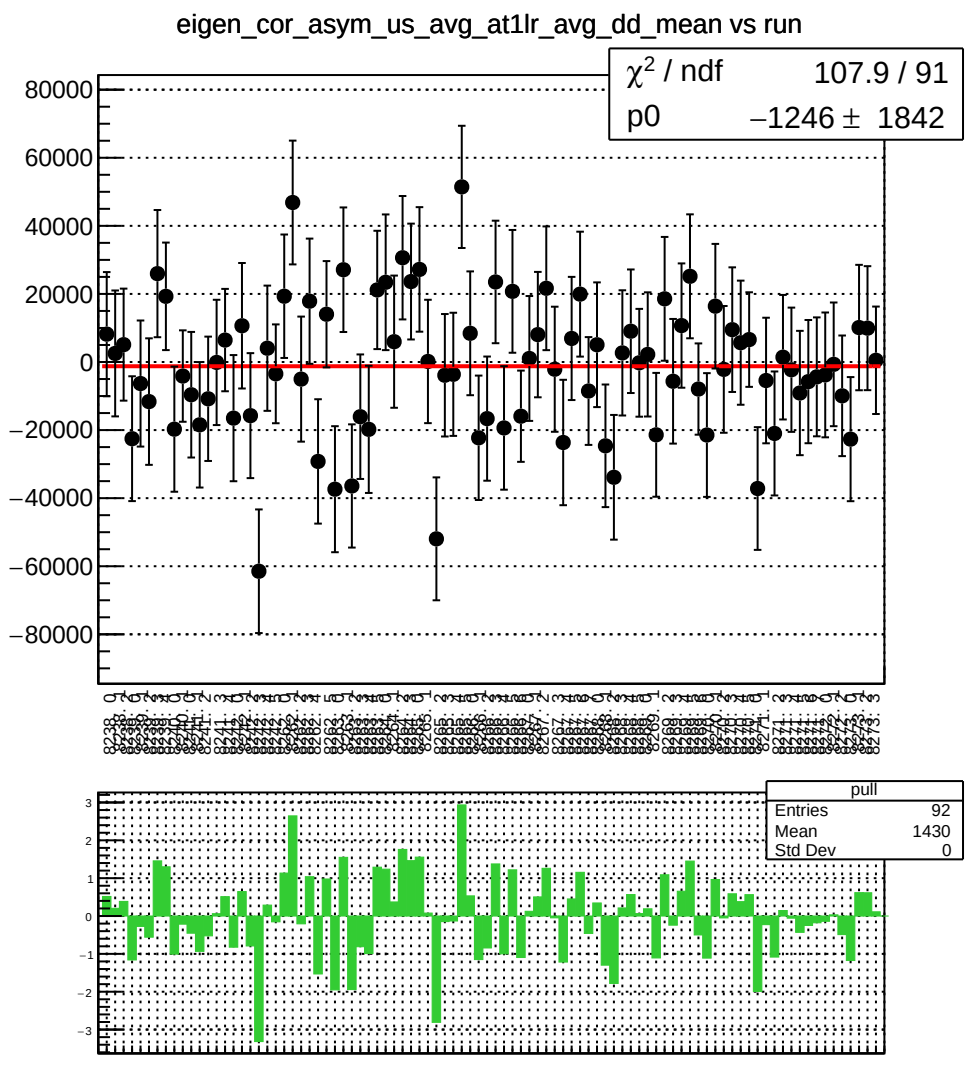

pull1D
Entries 92
Mean −0.0004215
Std Dev 1.083

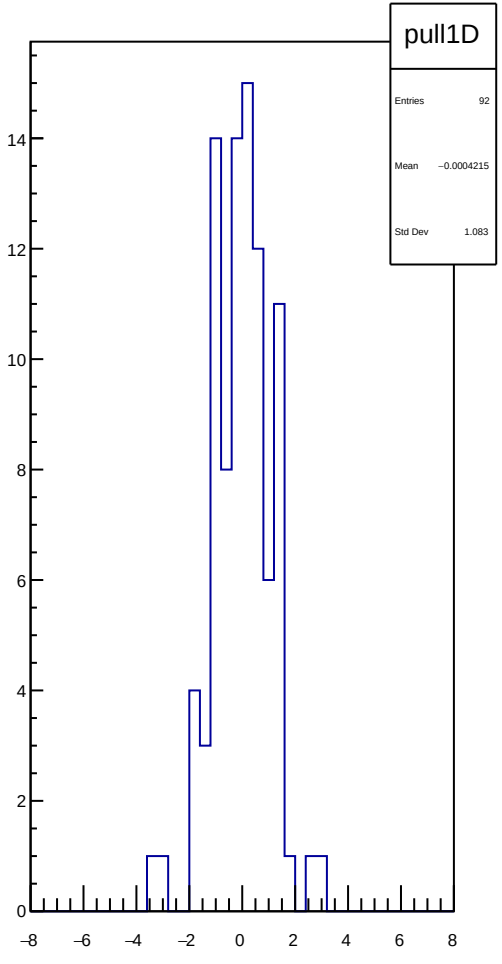

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 325.1 / 91
p0 1739 ± 1.303
1900
1850
1800
1750
1700

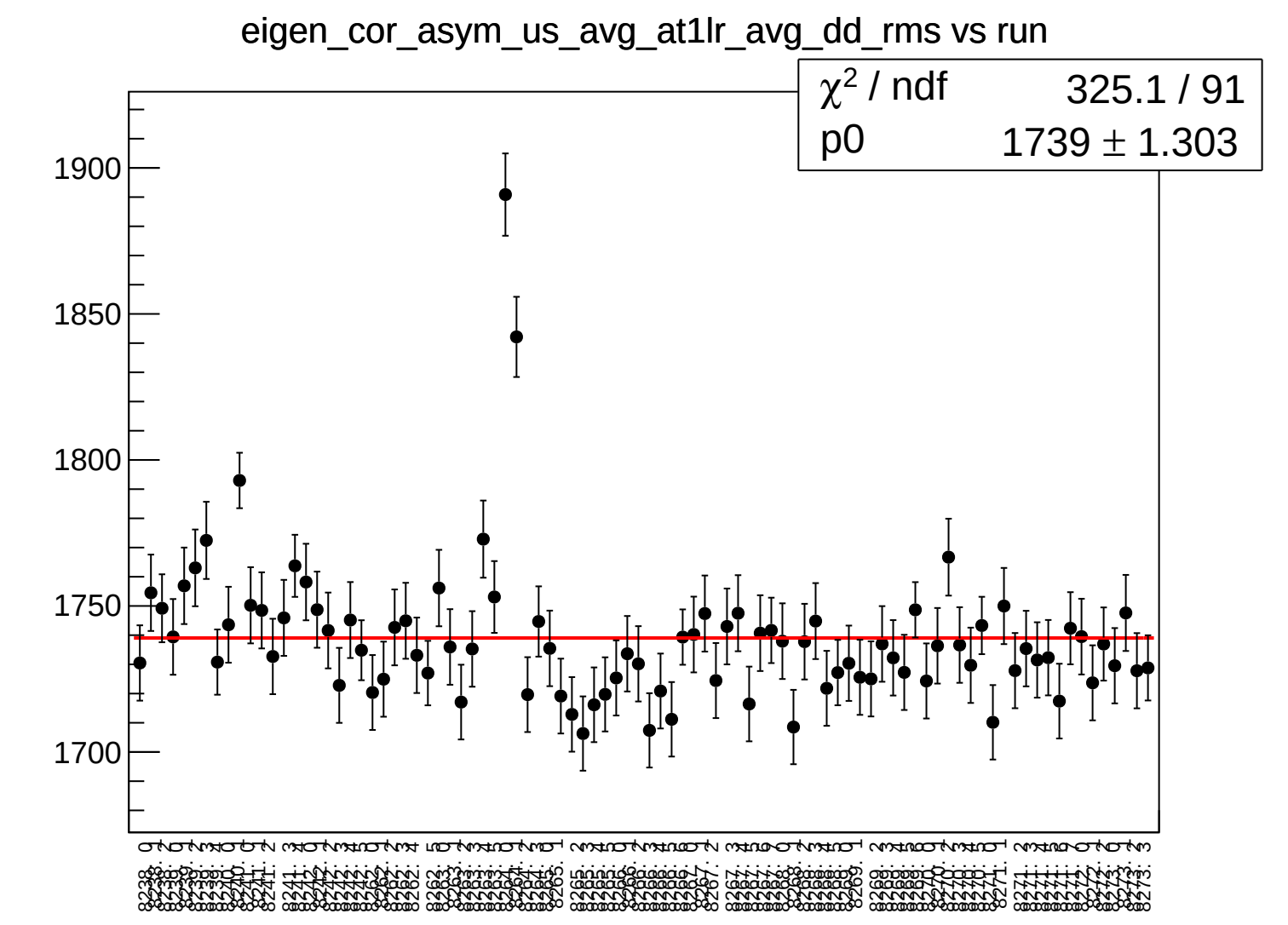

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 63.94 / 91
p0 877.2 ± 343.9
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −38.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

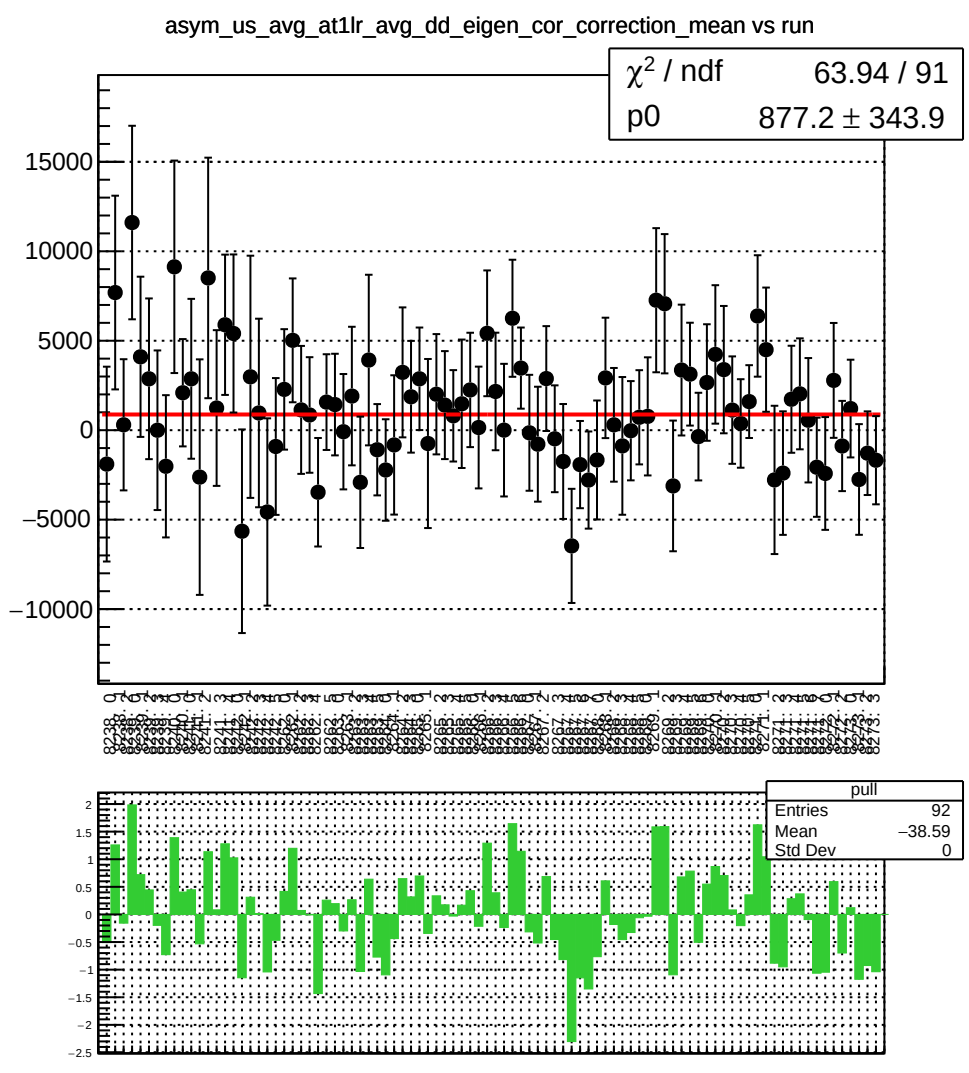

pull1D
Entries 92
Mean 0.04612
Std Dev 0.8324
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

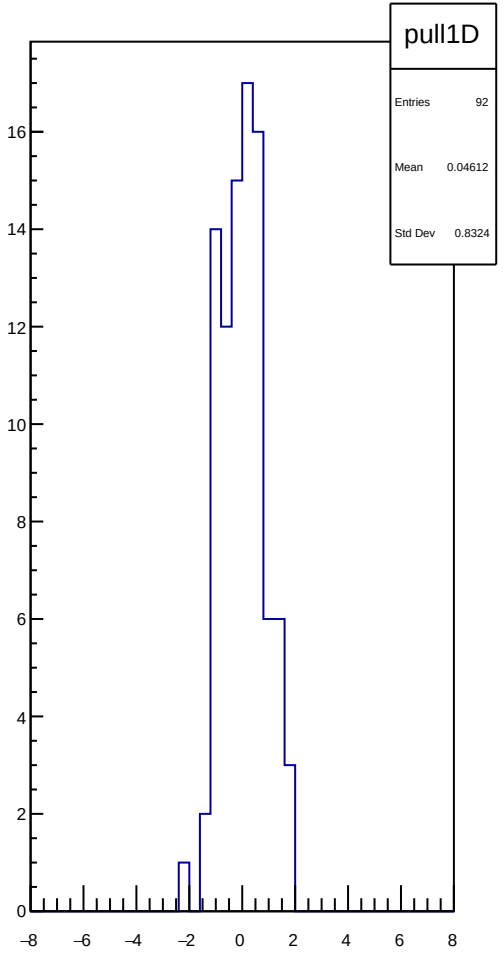

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 7.786e+04 / 91
p0 317.5 ± 0.2432
600
500
400
300
200

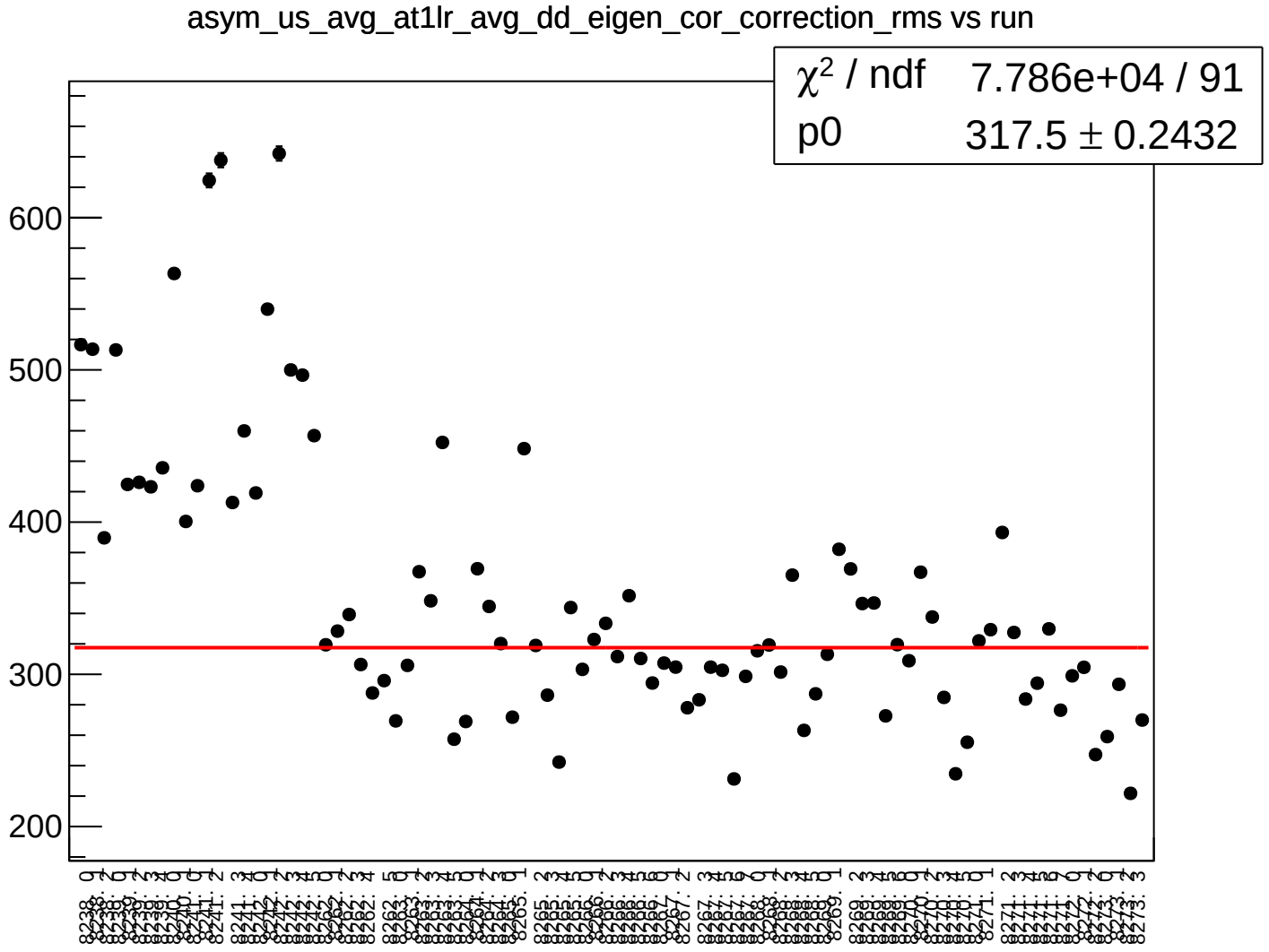

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 107.9 / 91
p0 −1246 ± 1842
pull
Entries 92
Mean 1430
Std Dev 0

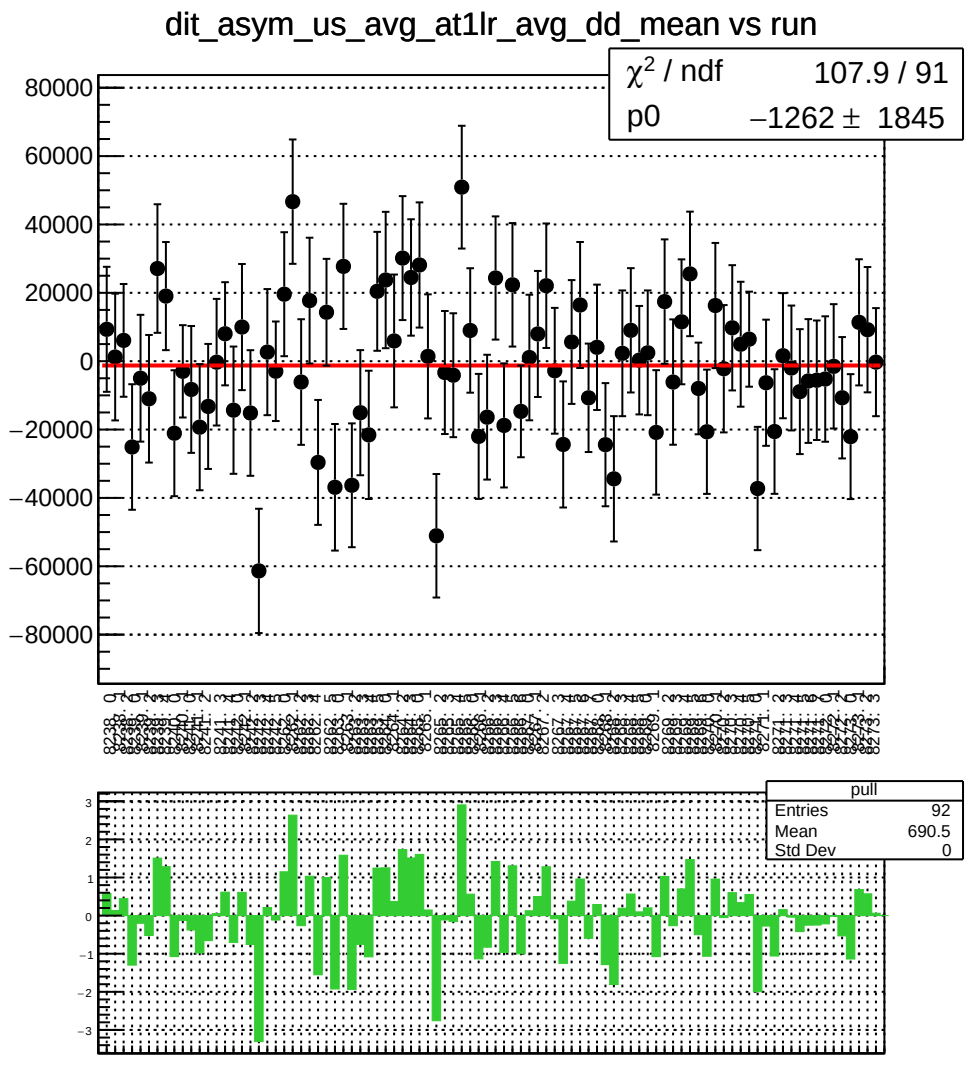

pull1D
Entries 92
Mean −0.0004215
Std Dev 1.083

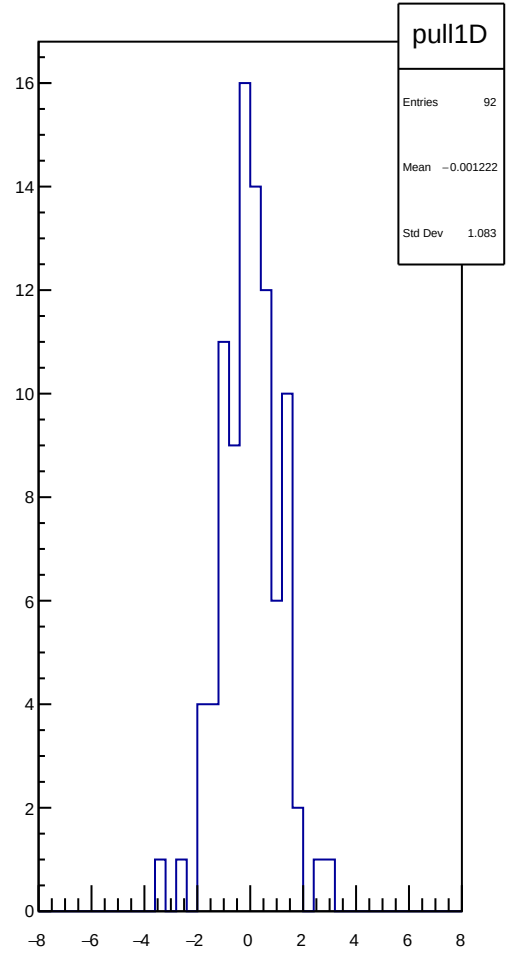

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 325.1 / 91
p0 1739 ± 1.303
1900
1850
1800
1750
1700

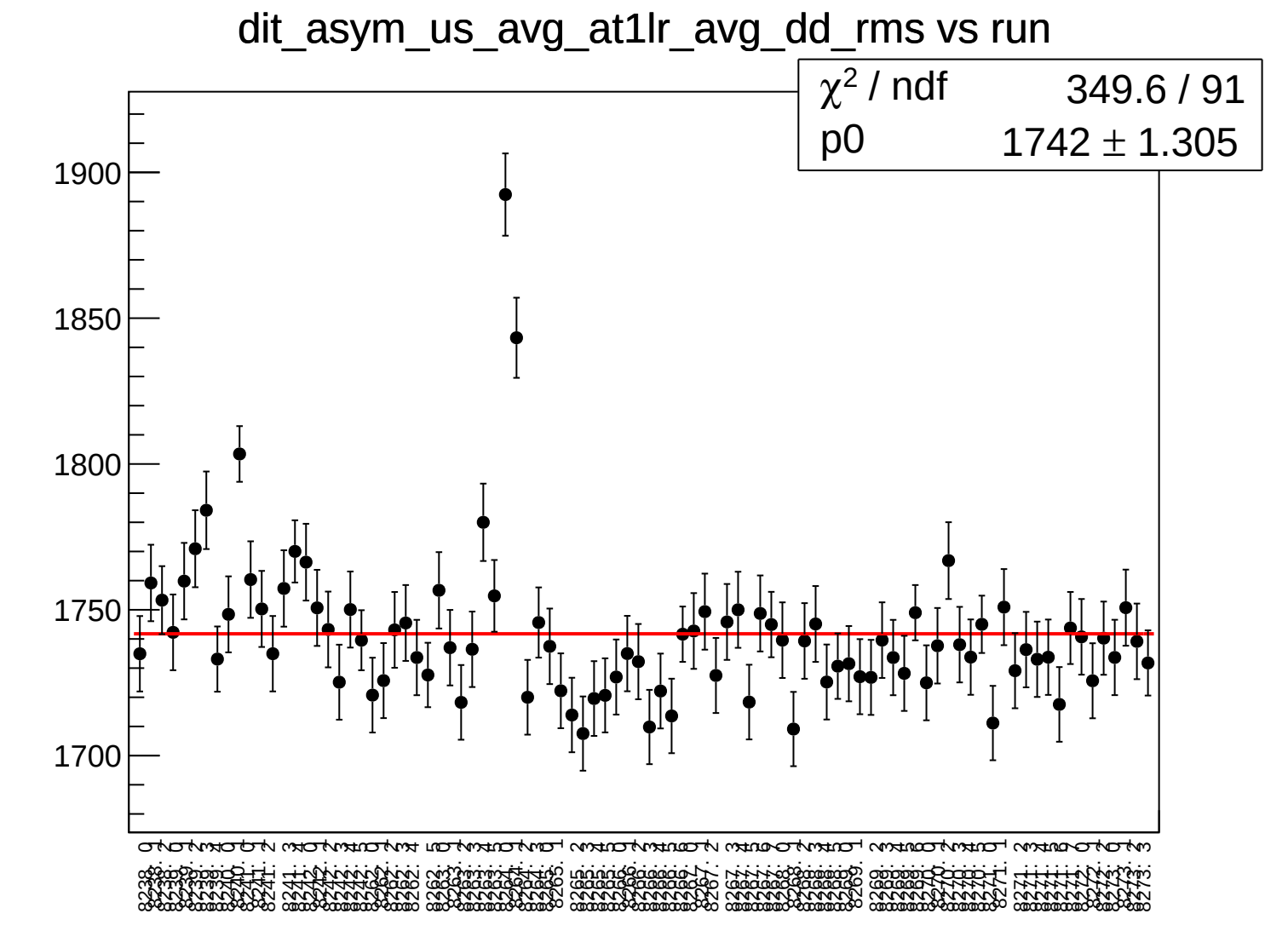

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 63.94 / 91
p0 877.2 ± 343.9
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −38.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

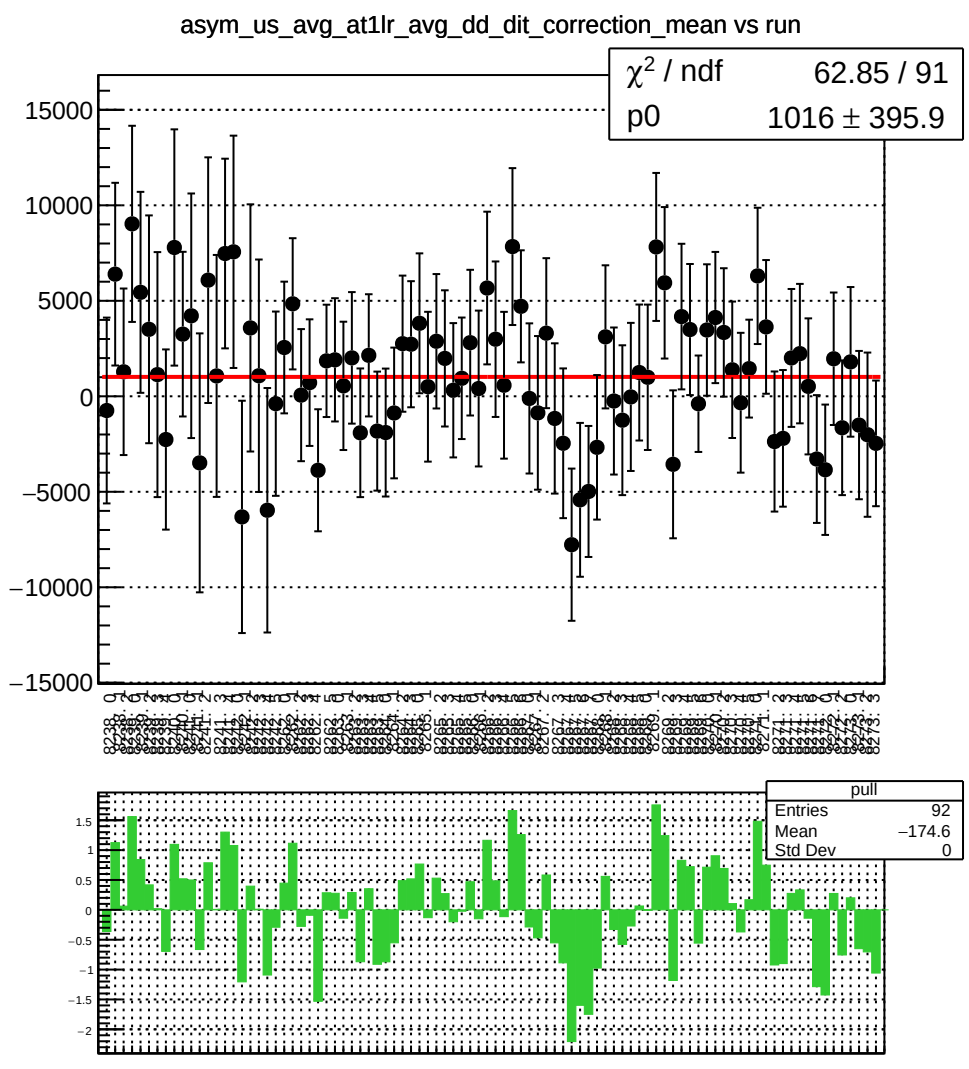

pull1D
Entries 92
Mean 0.04612
Std Dev 0.8324
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

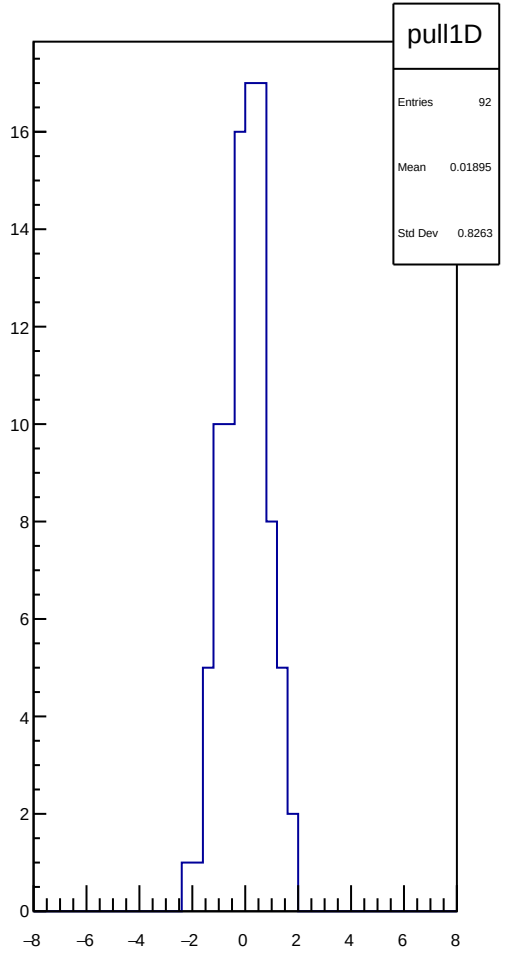

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 7.786e+04 / 91
p0 317.5 ± 0.2432
600
500
400
300
200

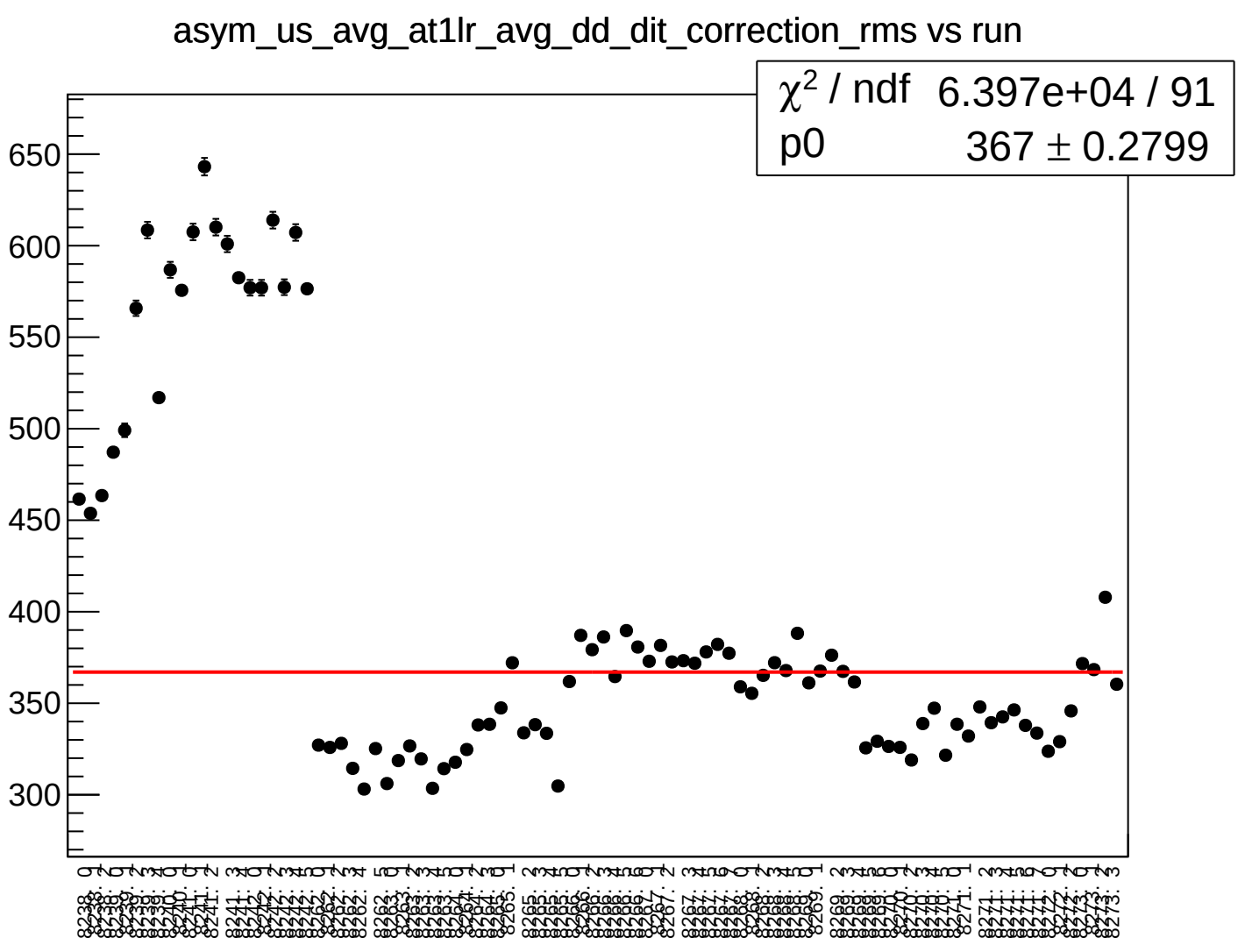

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 107.9 / 91
p0 −1262 ± 1845
pull
Entries 92
Mean 690.5
Std Dev 0

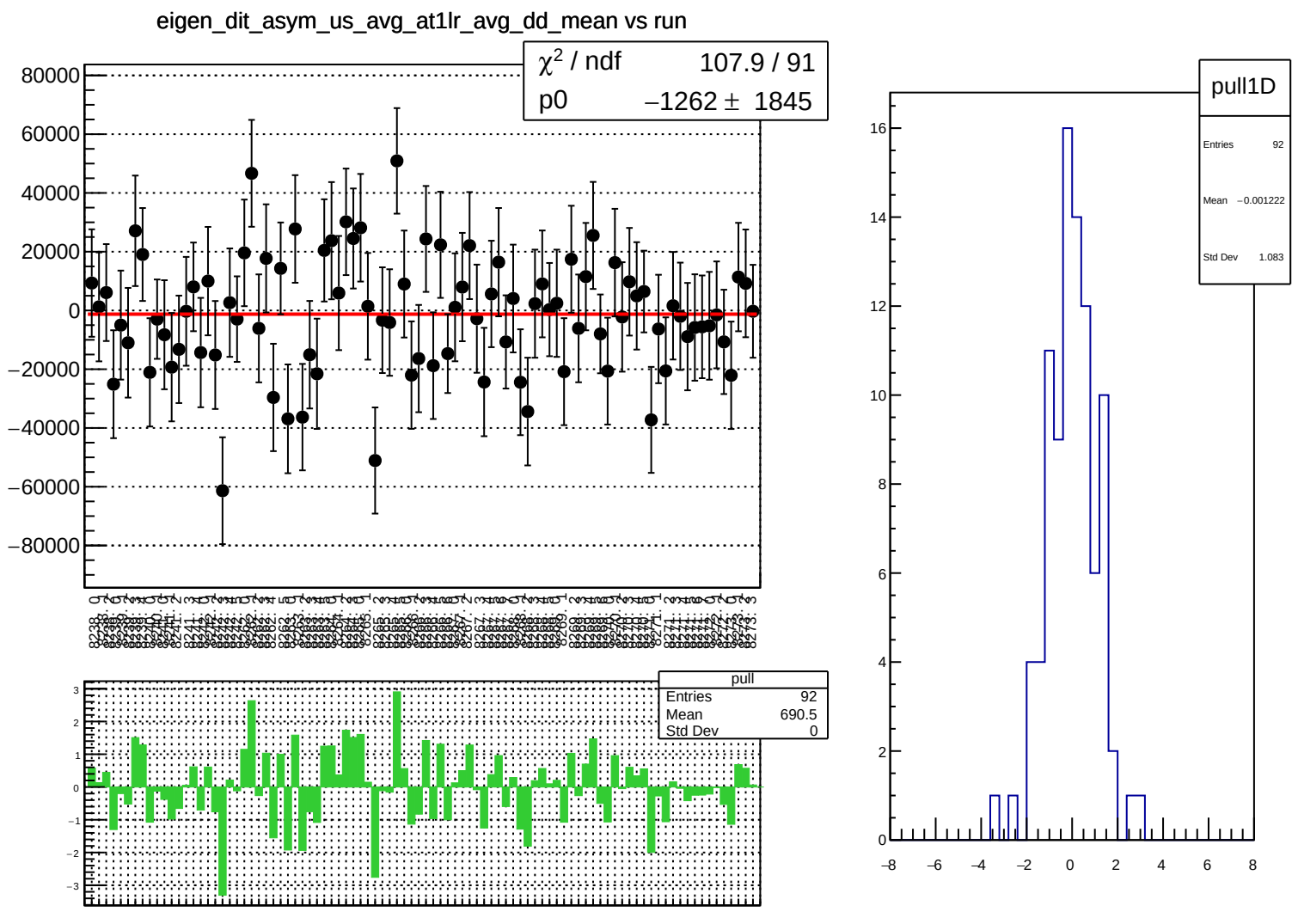

pull1D
Entries 92
Mean −0.001222
Std Dev 1.083

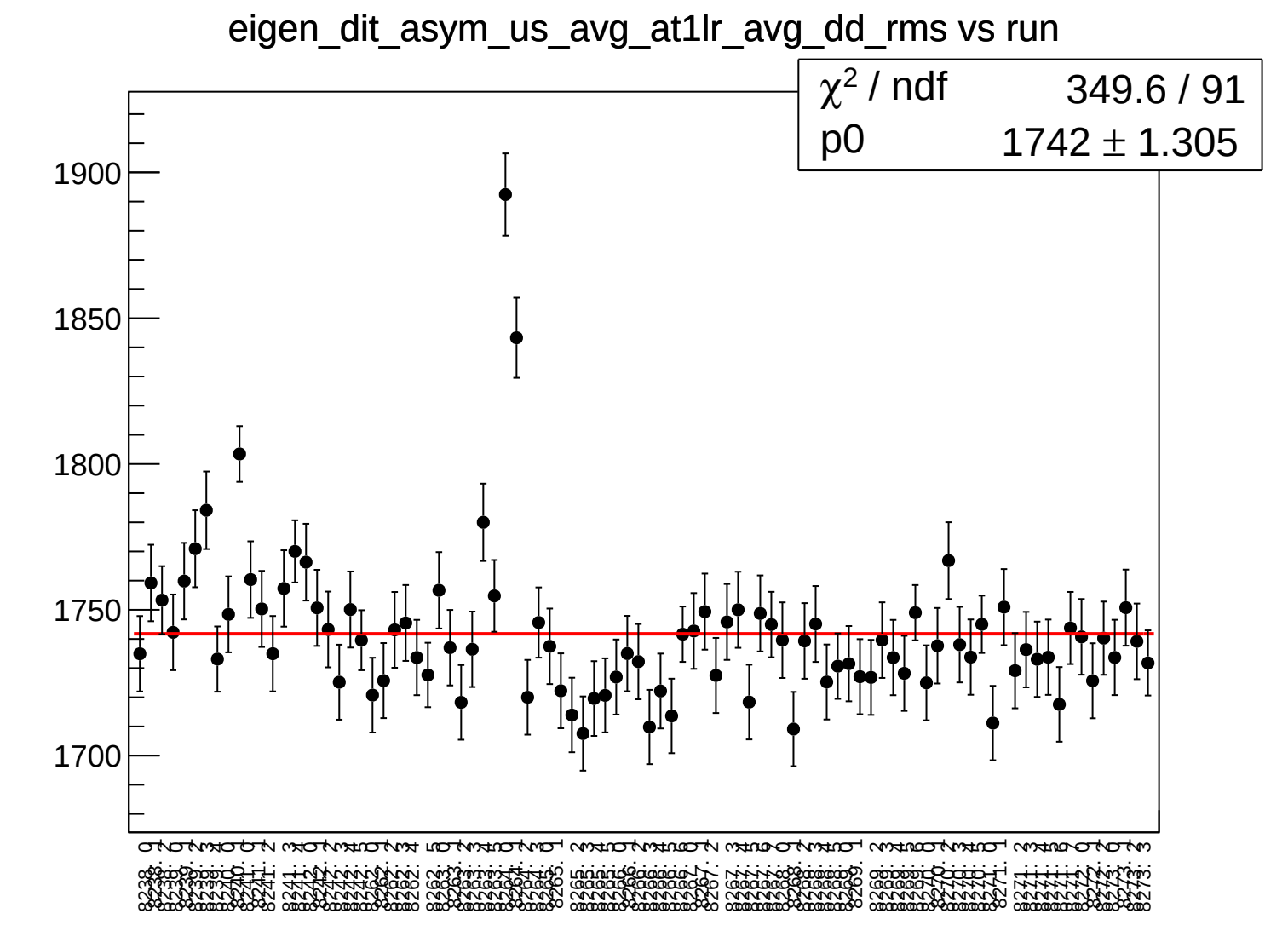

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 349.6 / 91
p0 1742 ± 1.305
1900
1850
1800
1750
1700

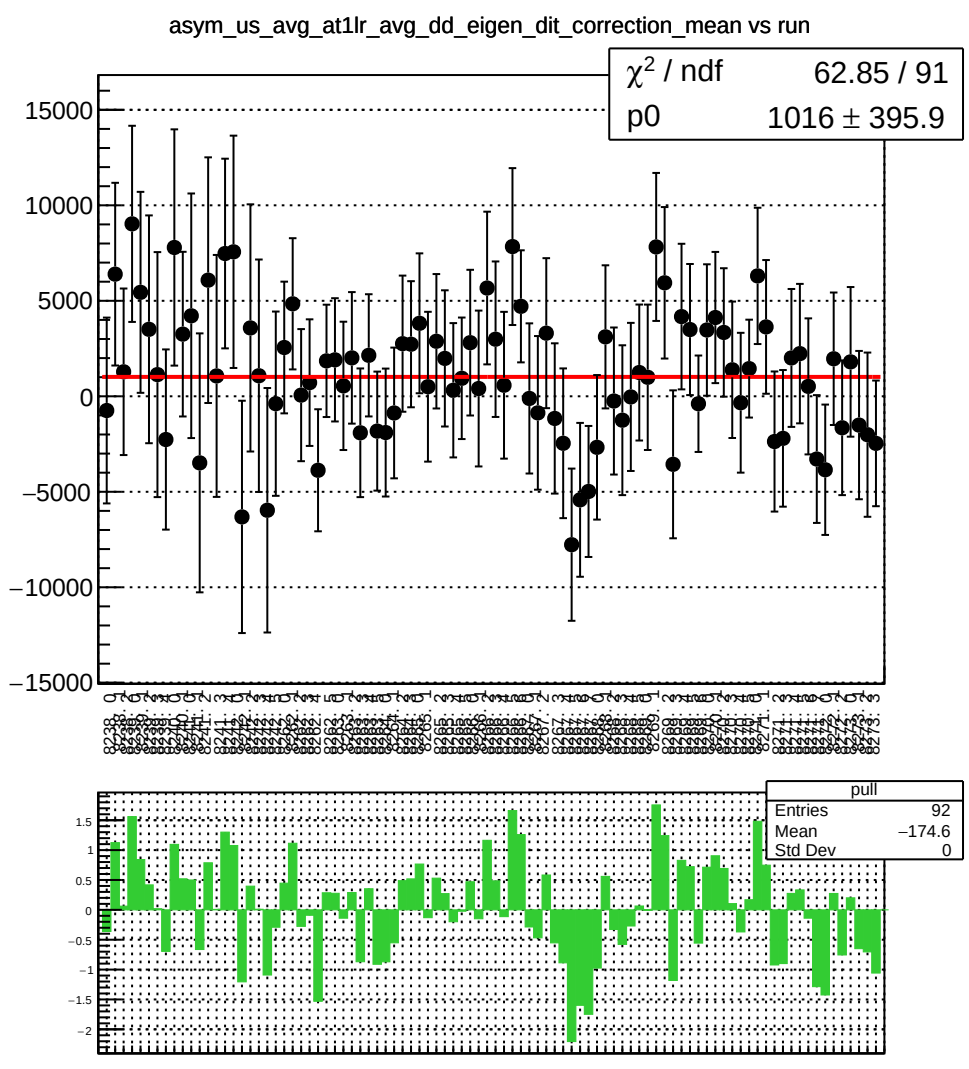

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 62.85 / 91
p0 1016 ± 395.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −174.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

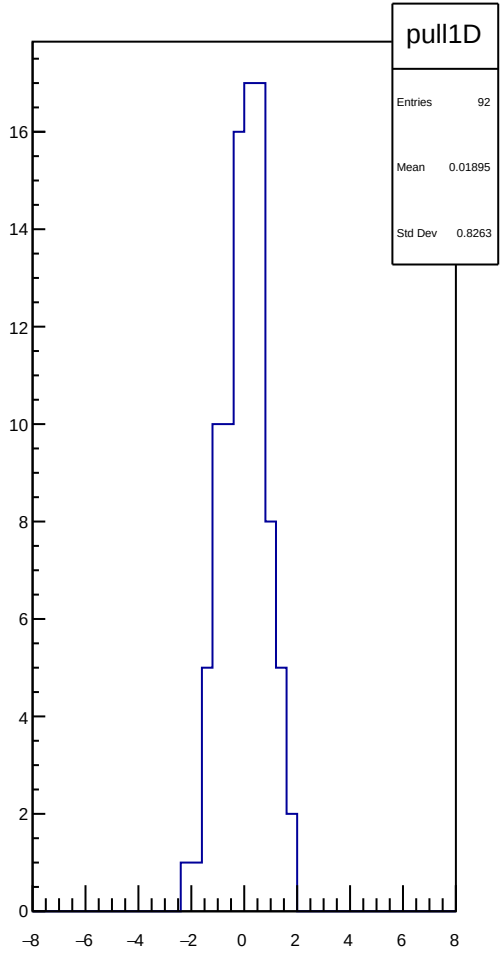

pull1D
Entries 92
Mean 0.01895
Std Dev 0.8263
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

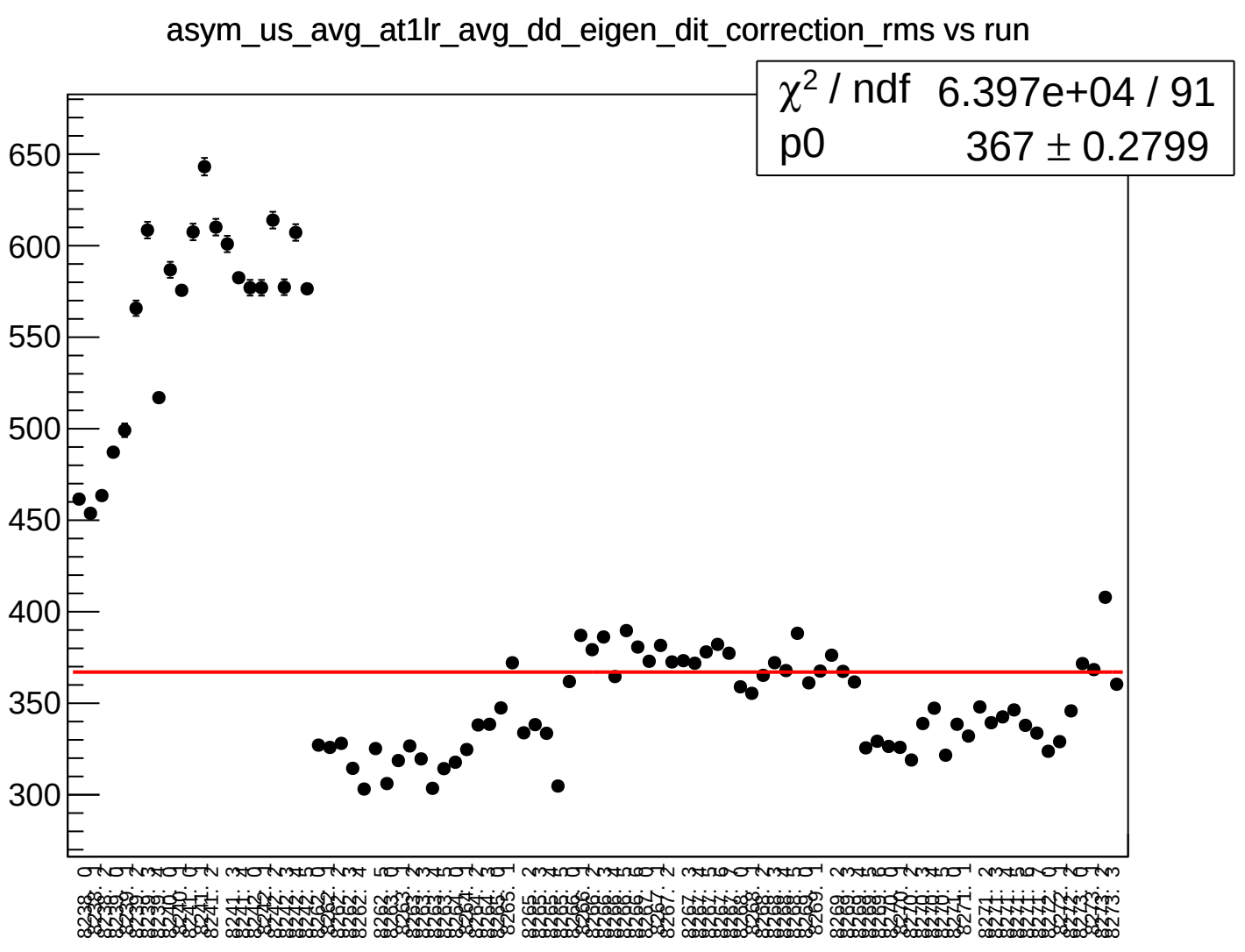

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 6.397e+04 / 91
p0 367 ± 0.2799
650
600
550
500
450
400
350
300

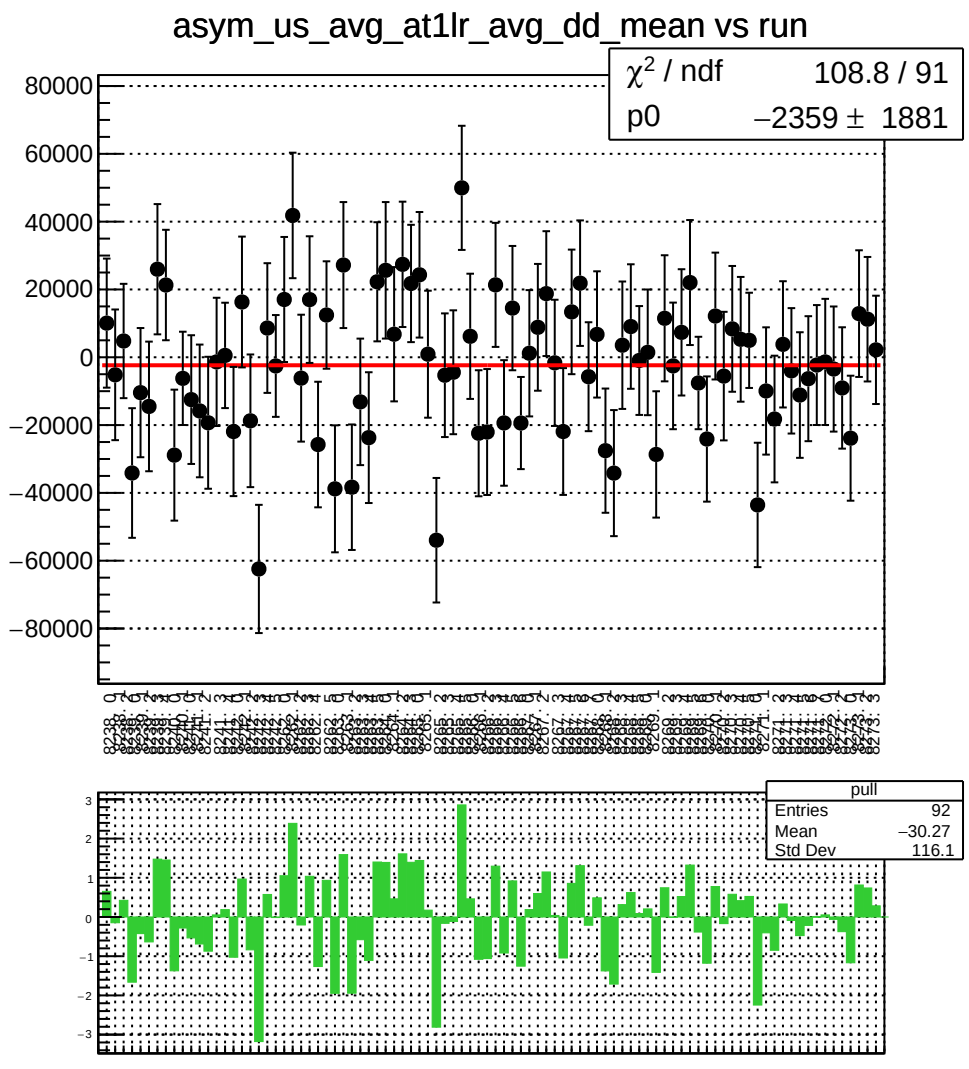

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 107.9 / 91
p0 −1262 ± 1845
pull
Entries 92
Mean 690.5
Std Dev 0
pull1D
Entries 92
Mean −0.001222
Std Dev 1.083

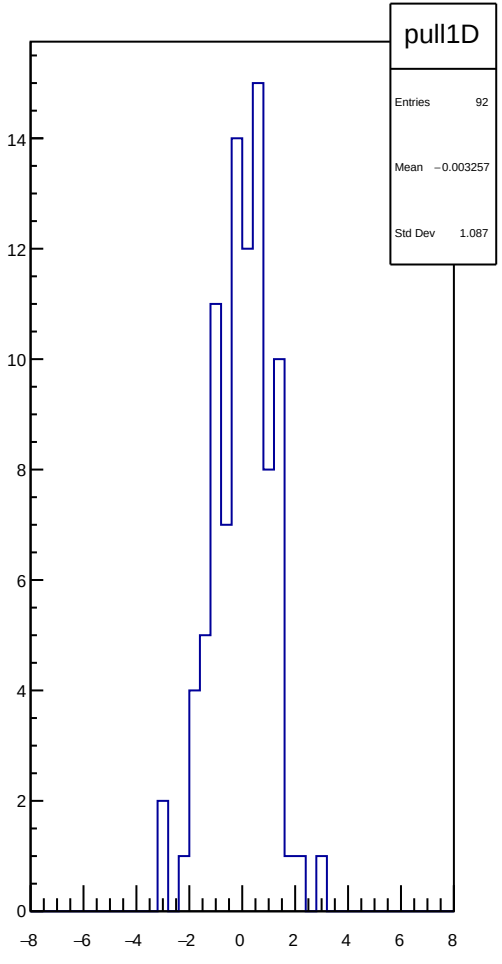

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 349.6 / 91
p0 1742 ± 1.305
1900
1850
1800
1750
1700

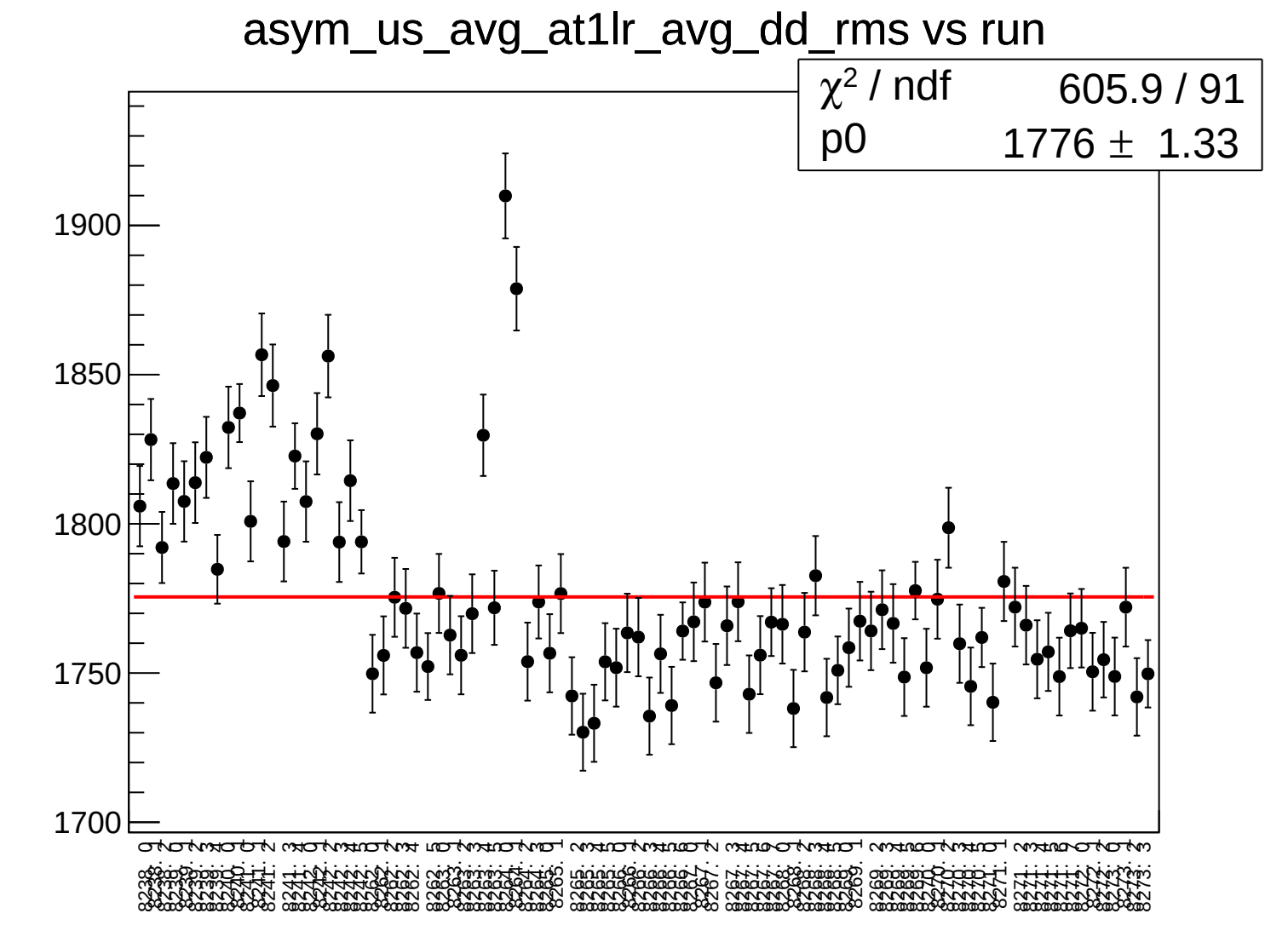

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 62.85 / 91
p0 1016 ± 395.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −174.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

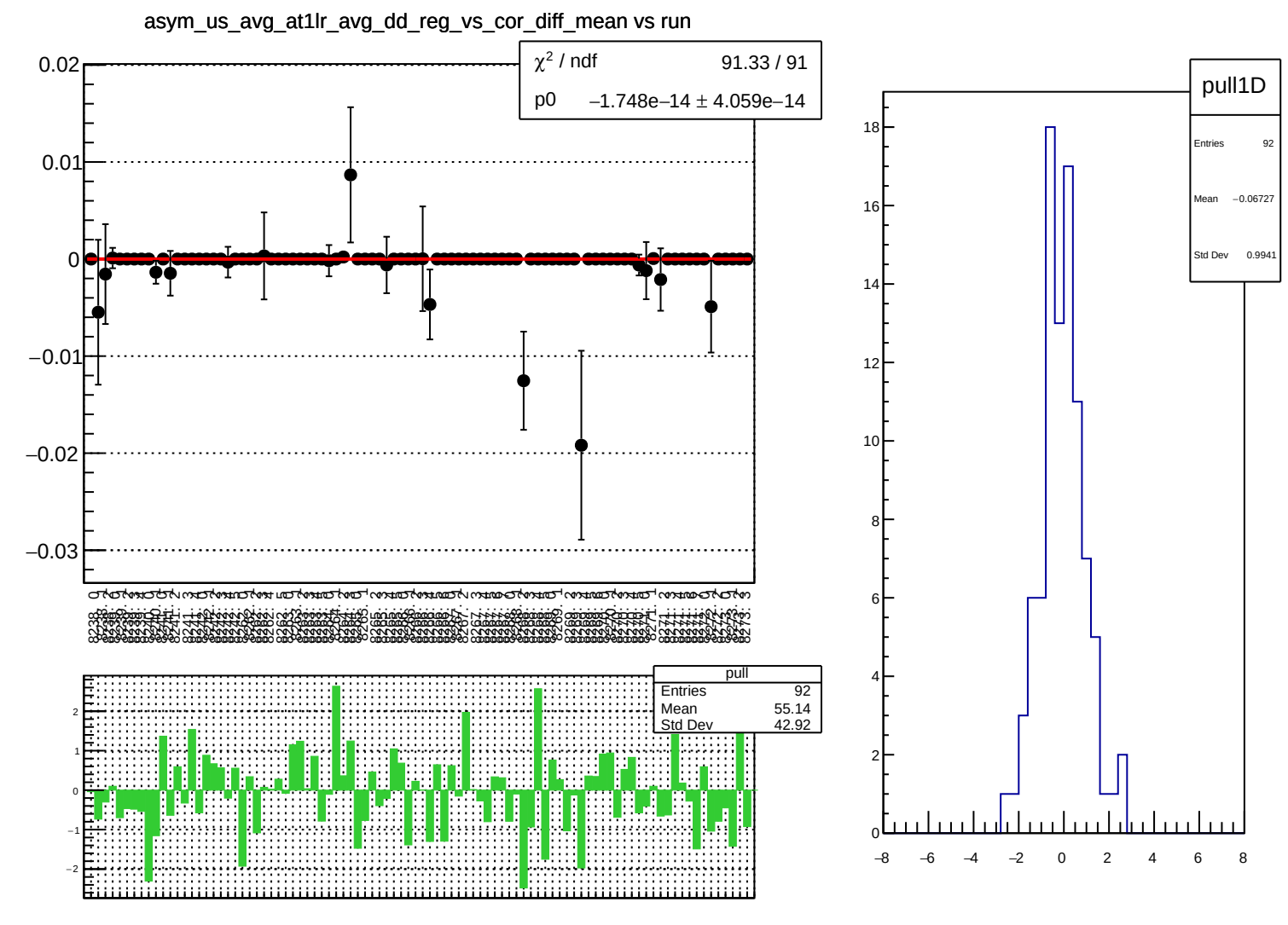

pull1D
Entries 92
Mean 0.01895
Std Dev 0.8263
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

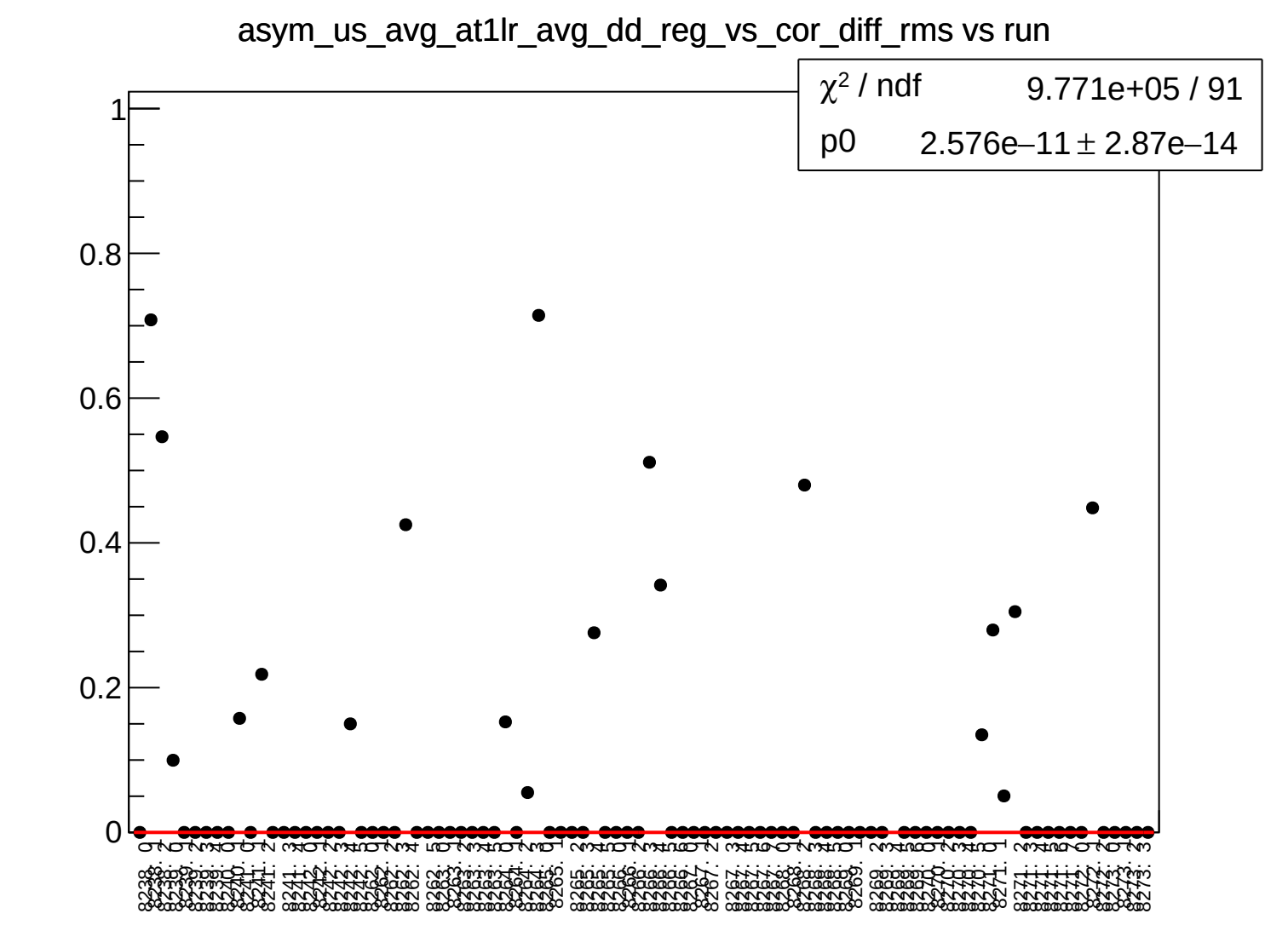

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6.397e+04 / 91
p0 367 ± 0.2799
650
600
550
500
450
400
350
300

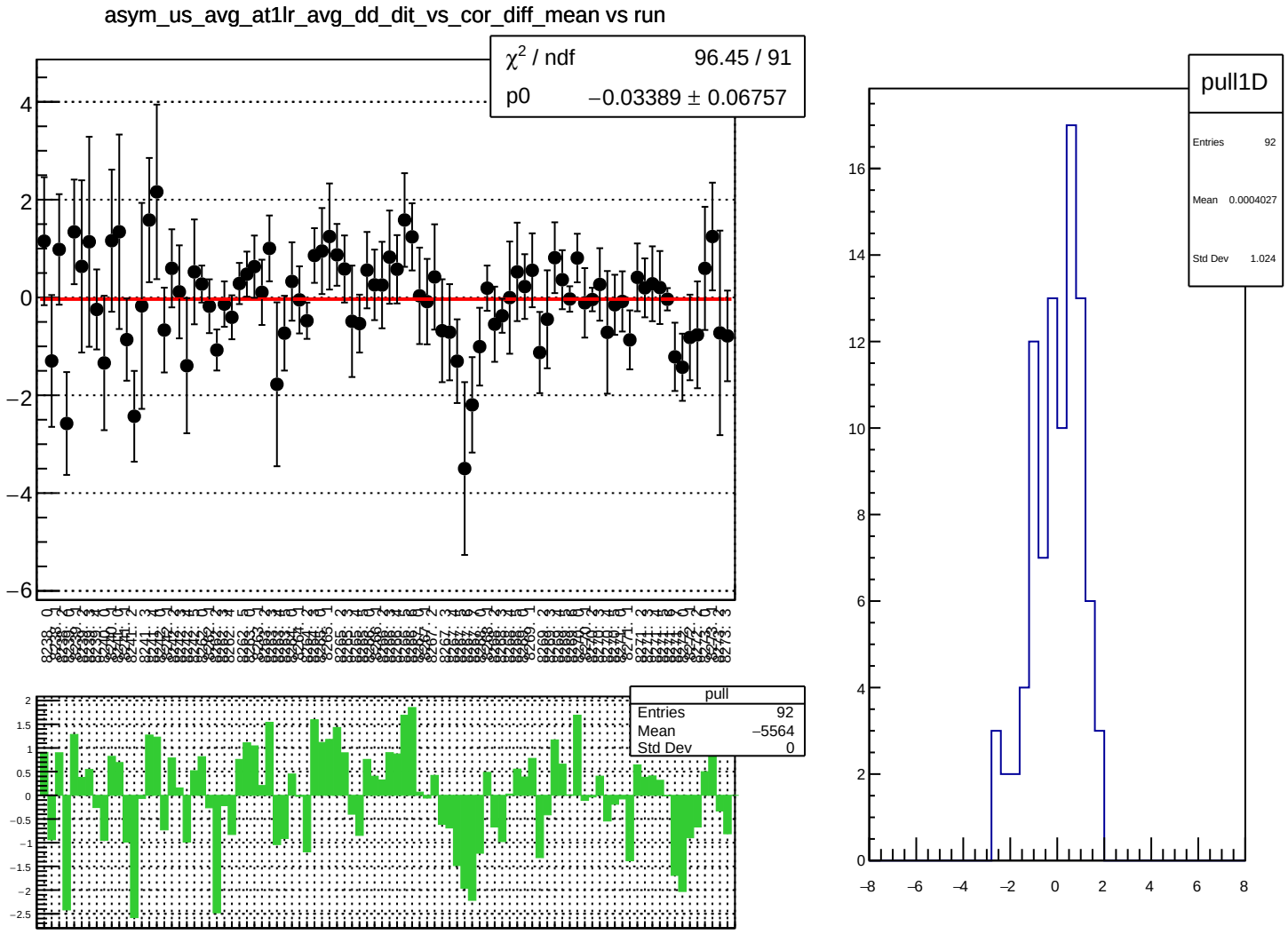

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 108.8 / 91
p0 −2359 ± 1881
pull
Entries 92
Mean −30.27
Std Dev 116.1

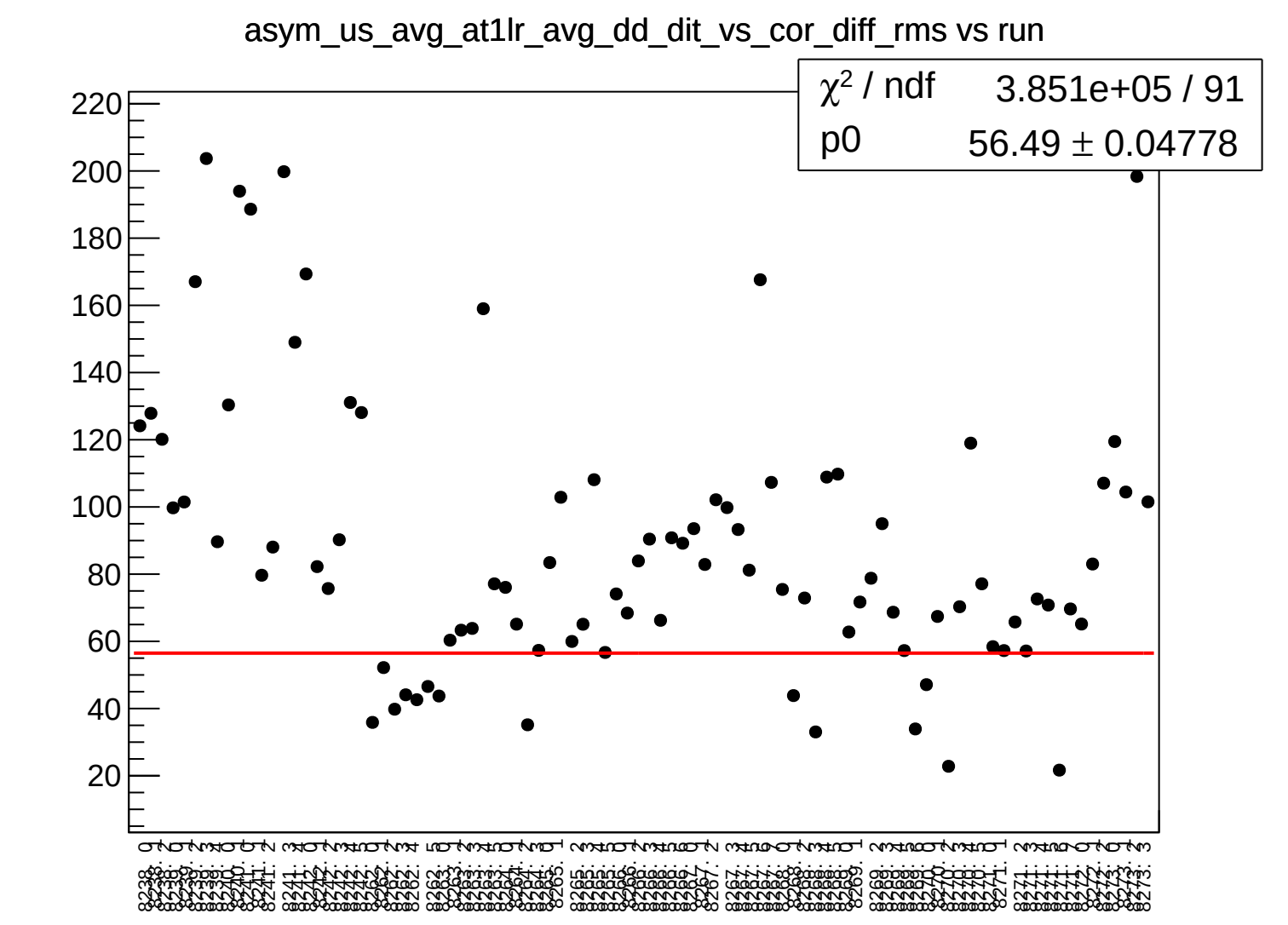

pull1D
Entries 92
Mean −0.003257
Std Dev 1.087

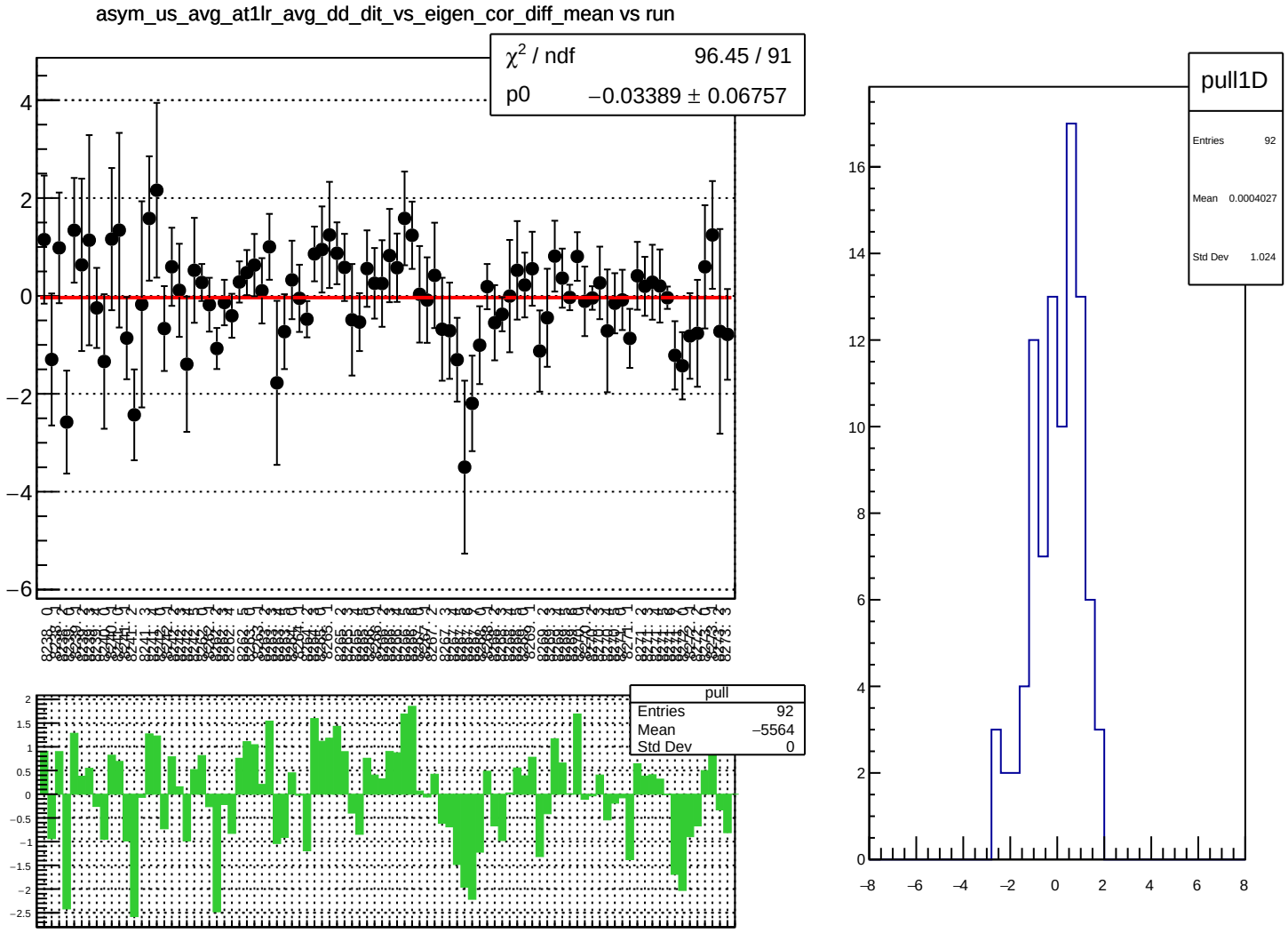

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 605.9 / 91
p0 1776 ± 1.33
1900
1850
1800
1750
1700

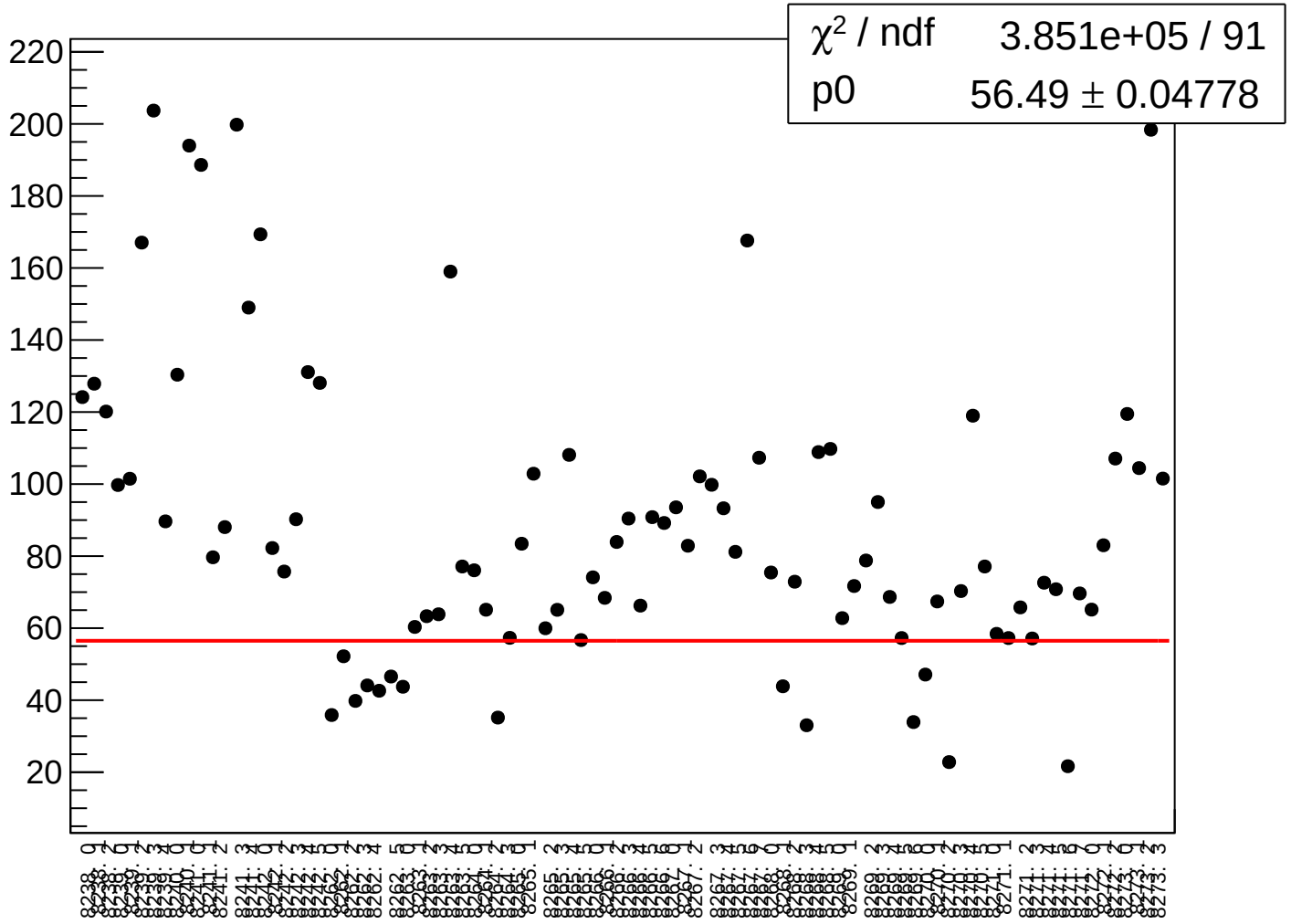

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.33 / 91
p0 −1.748e−14 ± 4.059e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean 55.14
Std Dev 42.92
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.06727
Std Dev 0.9941
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

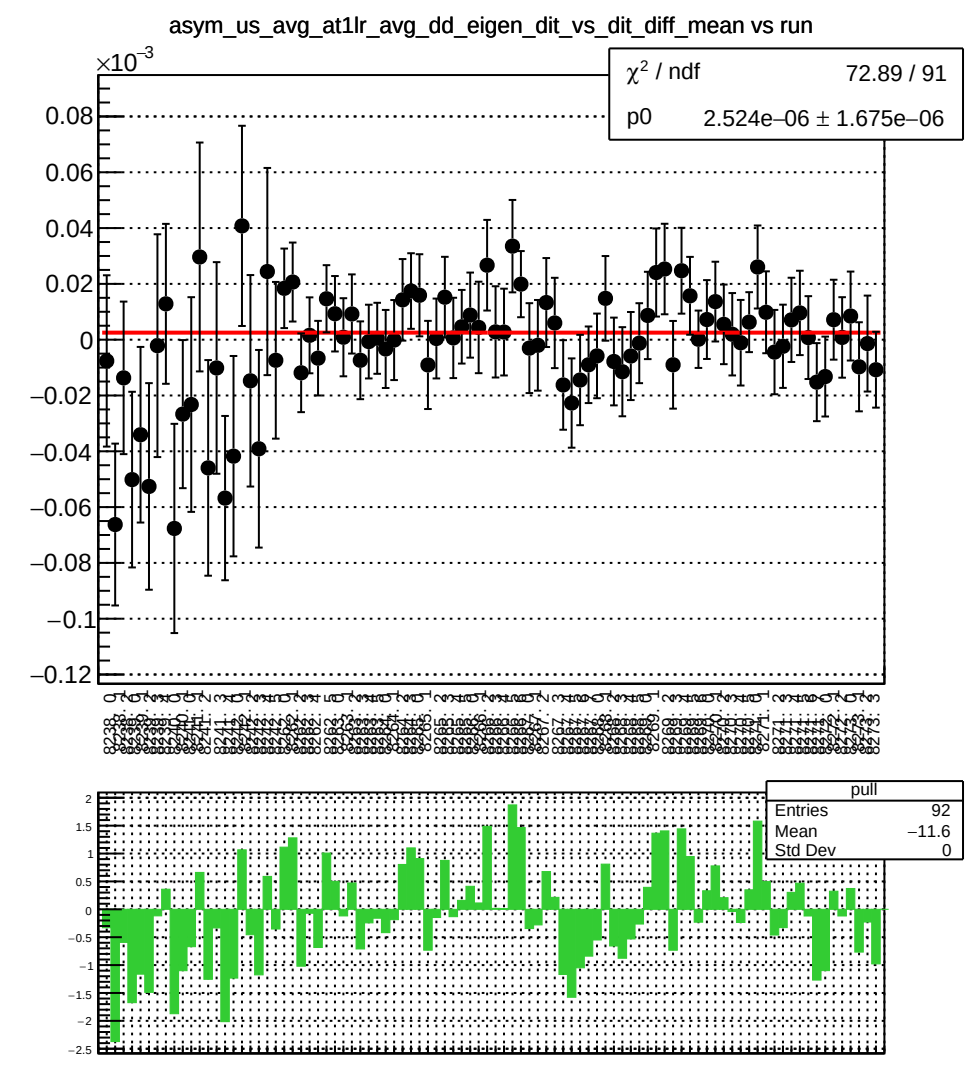

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.771e+05 / 91
p0 2.576e−11 ± 2.87e−14
1
0.8
0.6
0.4
0.2
0

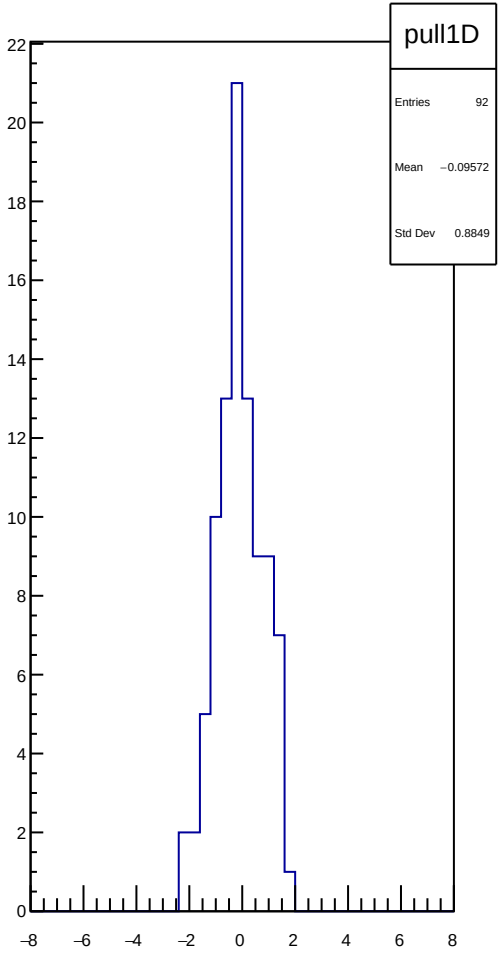

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.45 / 91
p0 −0.03389 ± 0.06757
pull
Entries 92
Mean −5564
Std Dev 0
pull1D
Entries 92
Mean 0.0004027
Std Dev 1.024

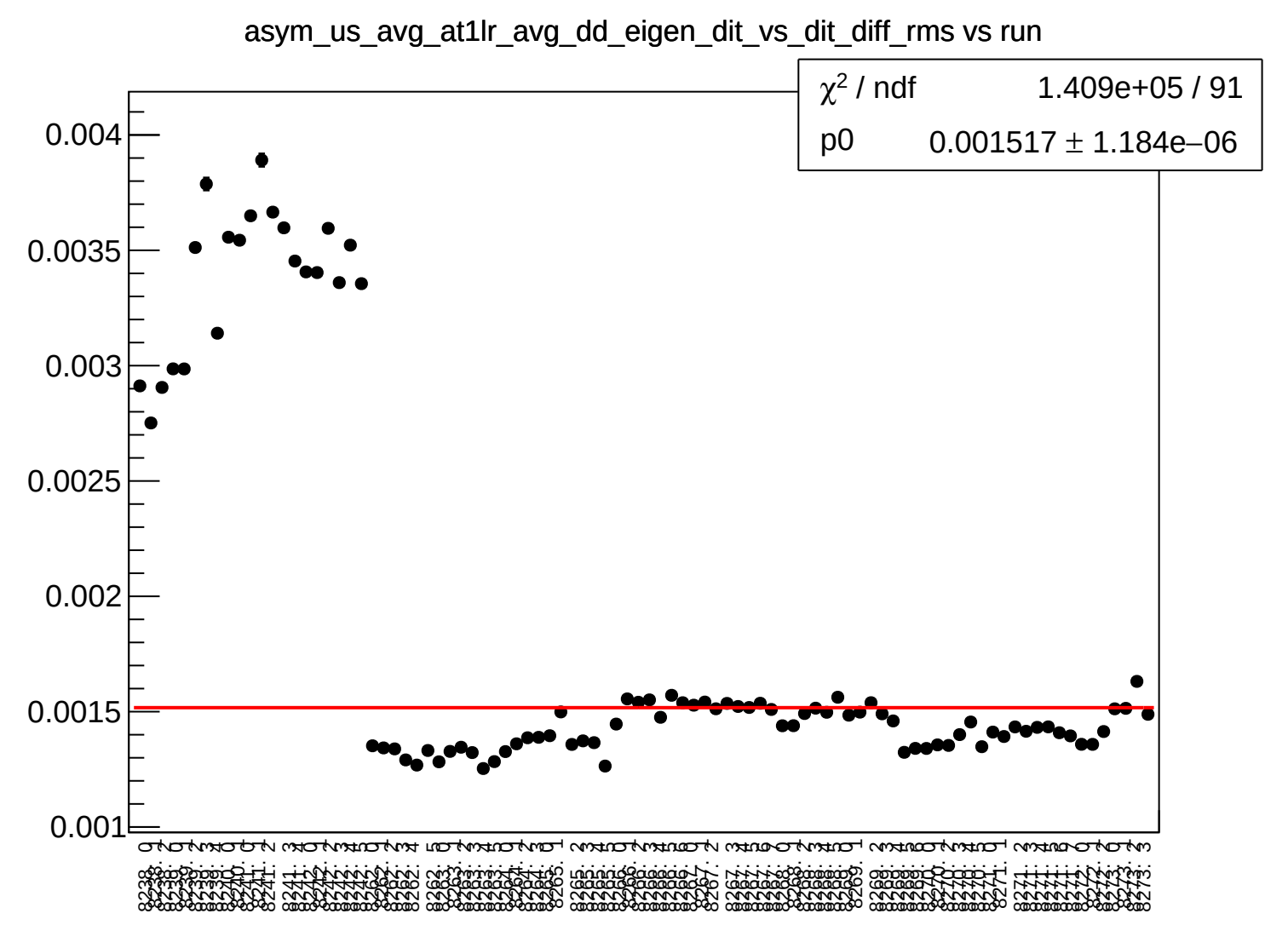

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.851e+05 / 91
p0 56.49 ± 0.04778
220
200
180
160
140
120
100
80
60
40
20

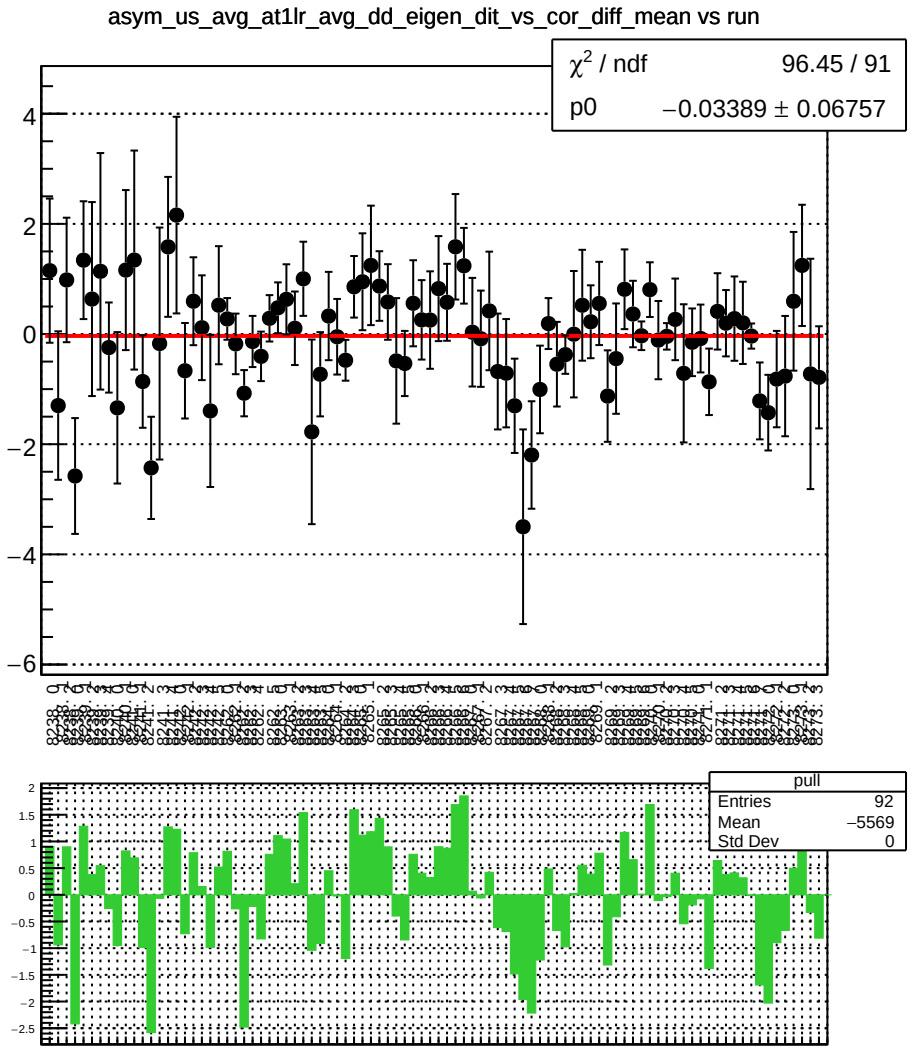

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.45 / 91
p0 −0.03389 ± 0.06757
pull
Entries 92
Mean −5564
Std Dev 0
pull1D
Entries 92
Mean 0.0004027
Std Dev 1.024

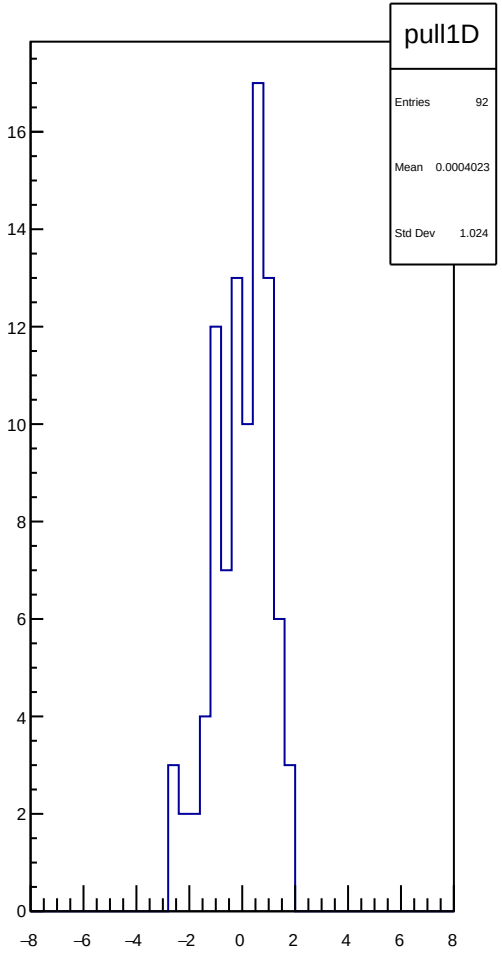

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.851e+05 / 91
p0 56.49 ± 0.04778
220
200
180
160
140
120
100
80
60
40
20

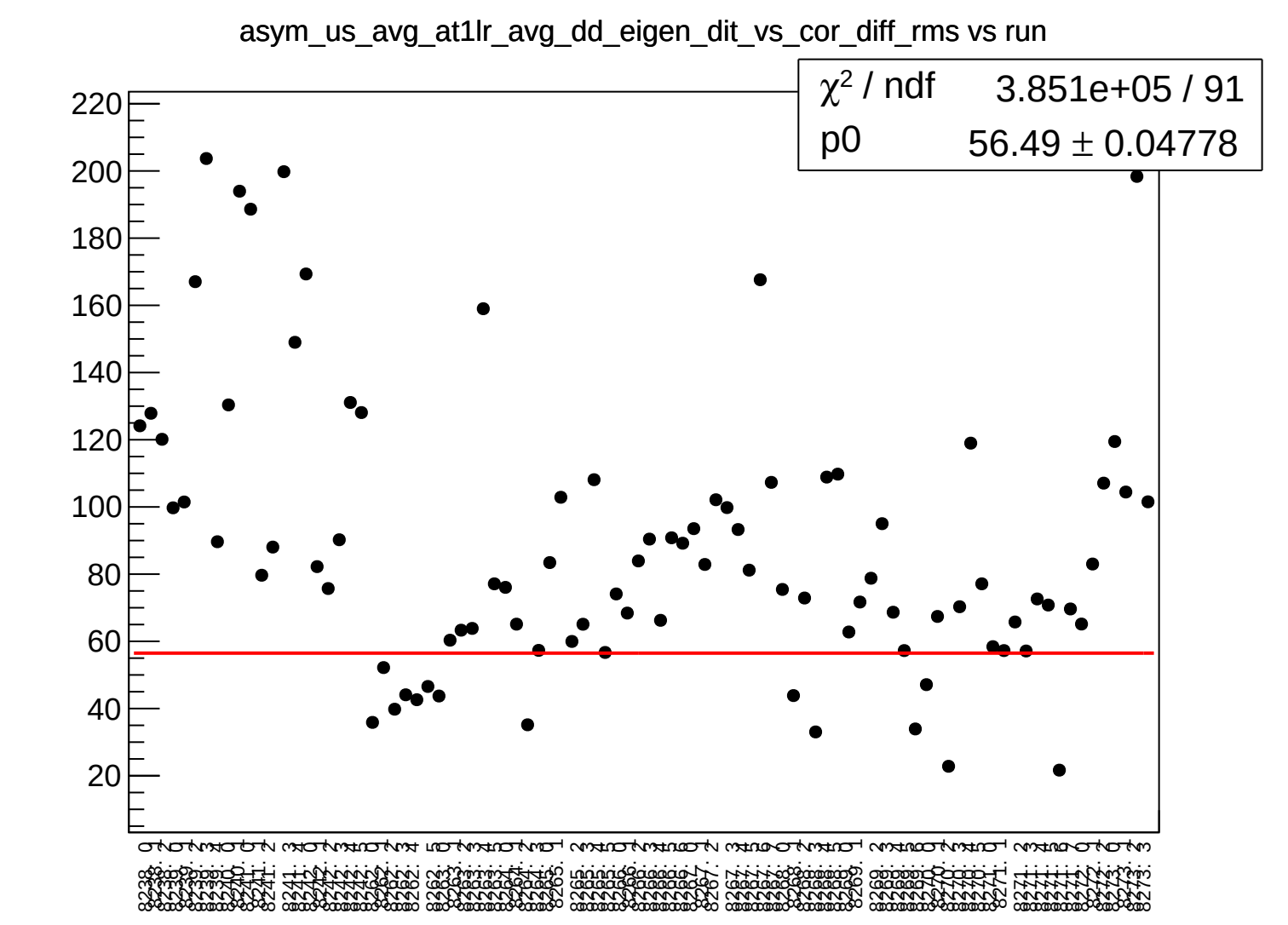

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.89 / 91
p0 2.524e−06 ± 1.675e−06
pull
Entries 92
Mean −11.6
Std Dev 0

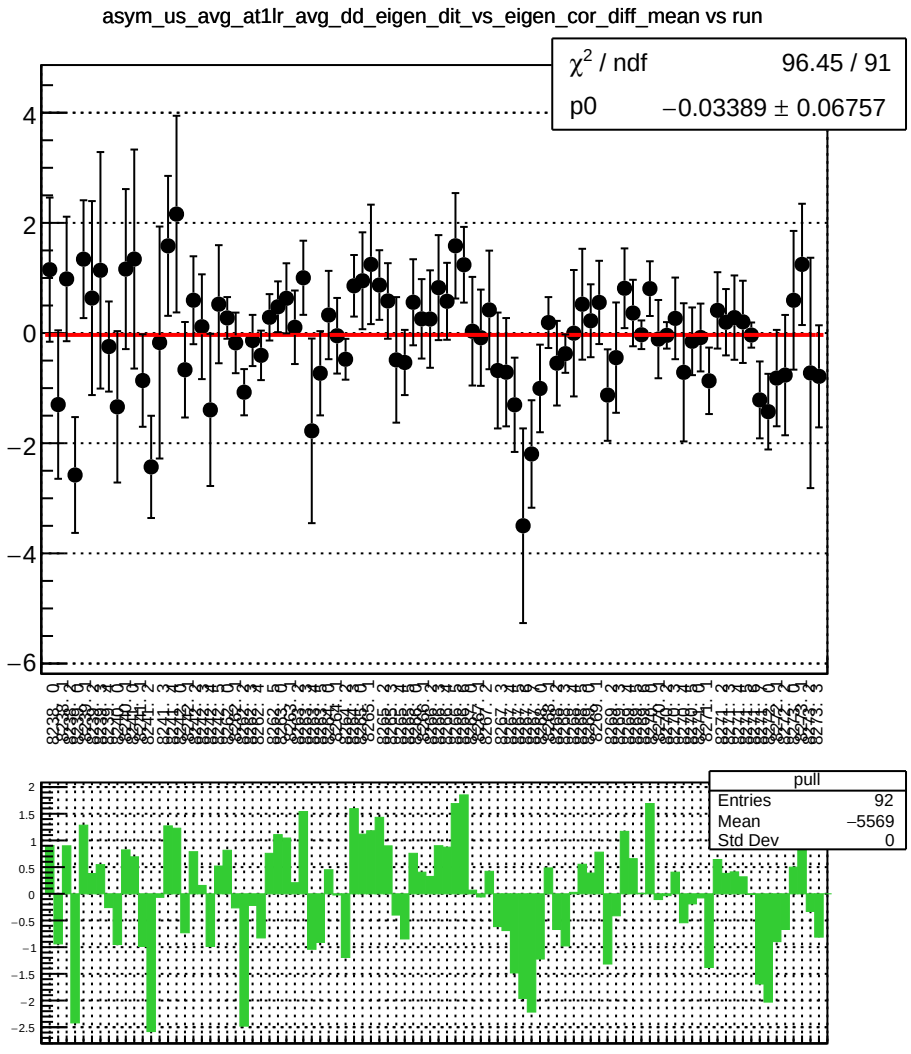

pull1D
Entries 92
Mean −0.09572
Std Dev 0.8849

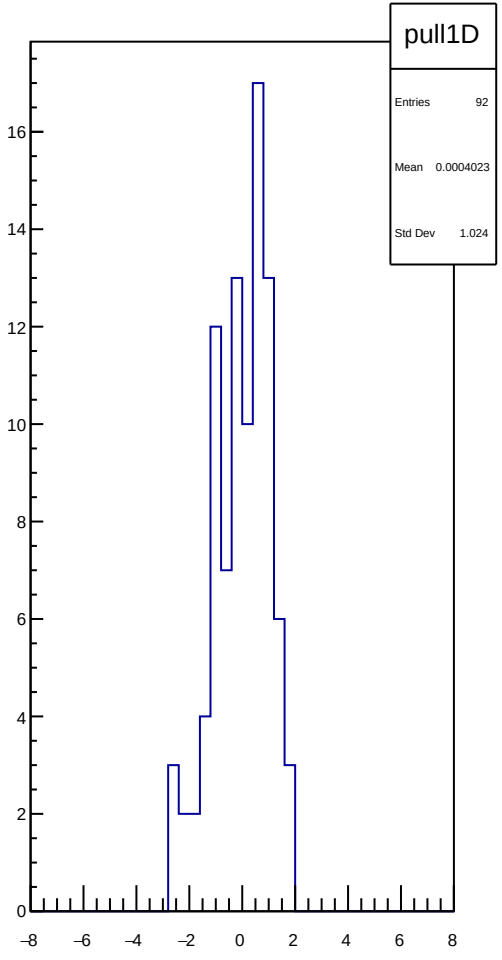

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.409e+05 / 91
p0 0.001517 ± 1.184e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

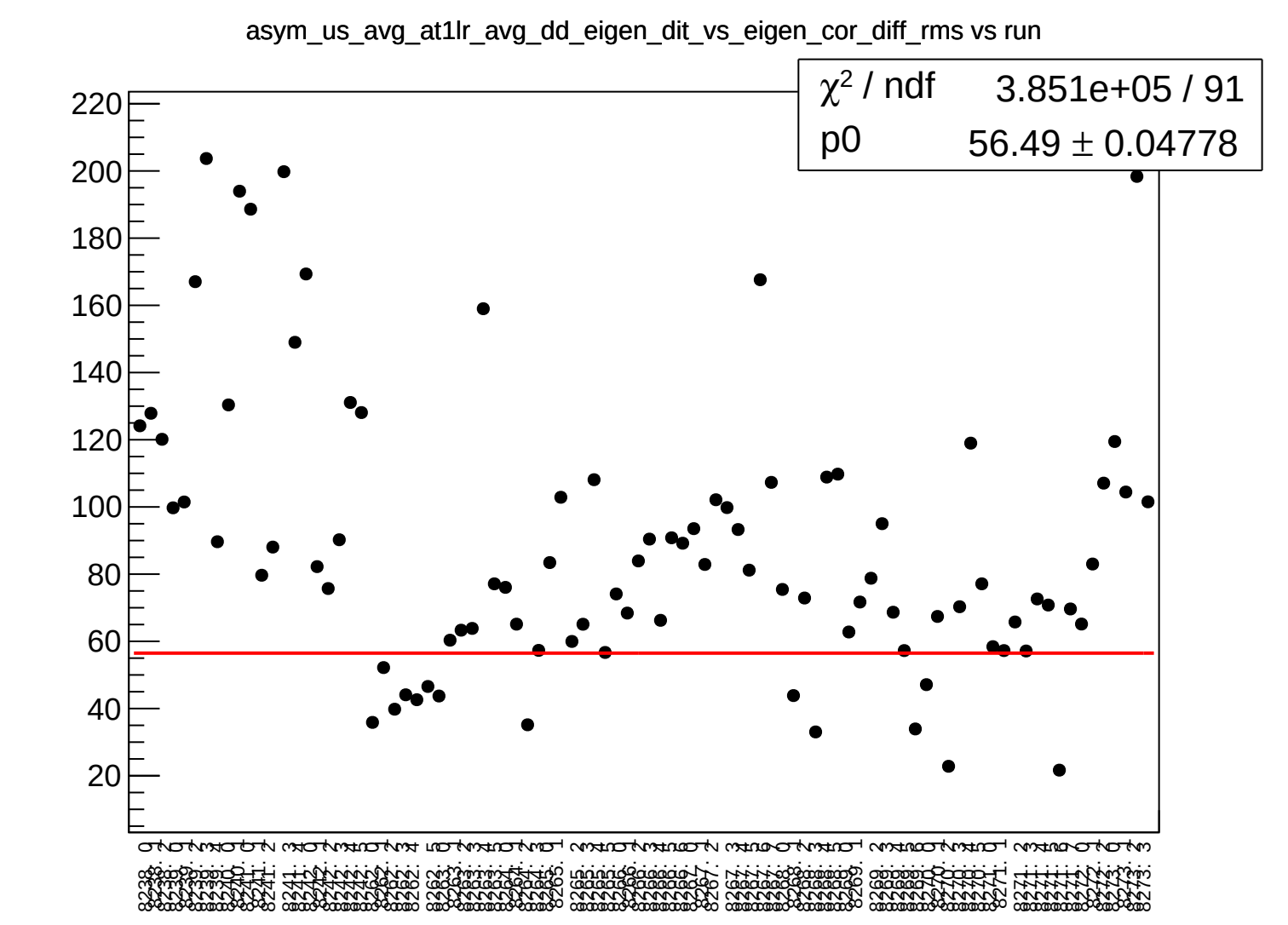

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.45 / 91
p0 −0.03389 ± 0.06757
pull
Entries 92
Mean −5569
Std Dev 0

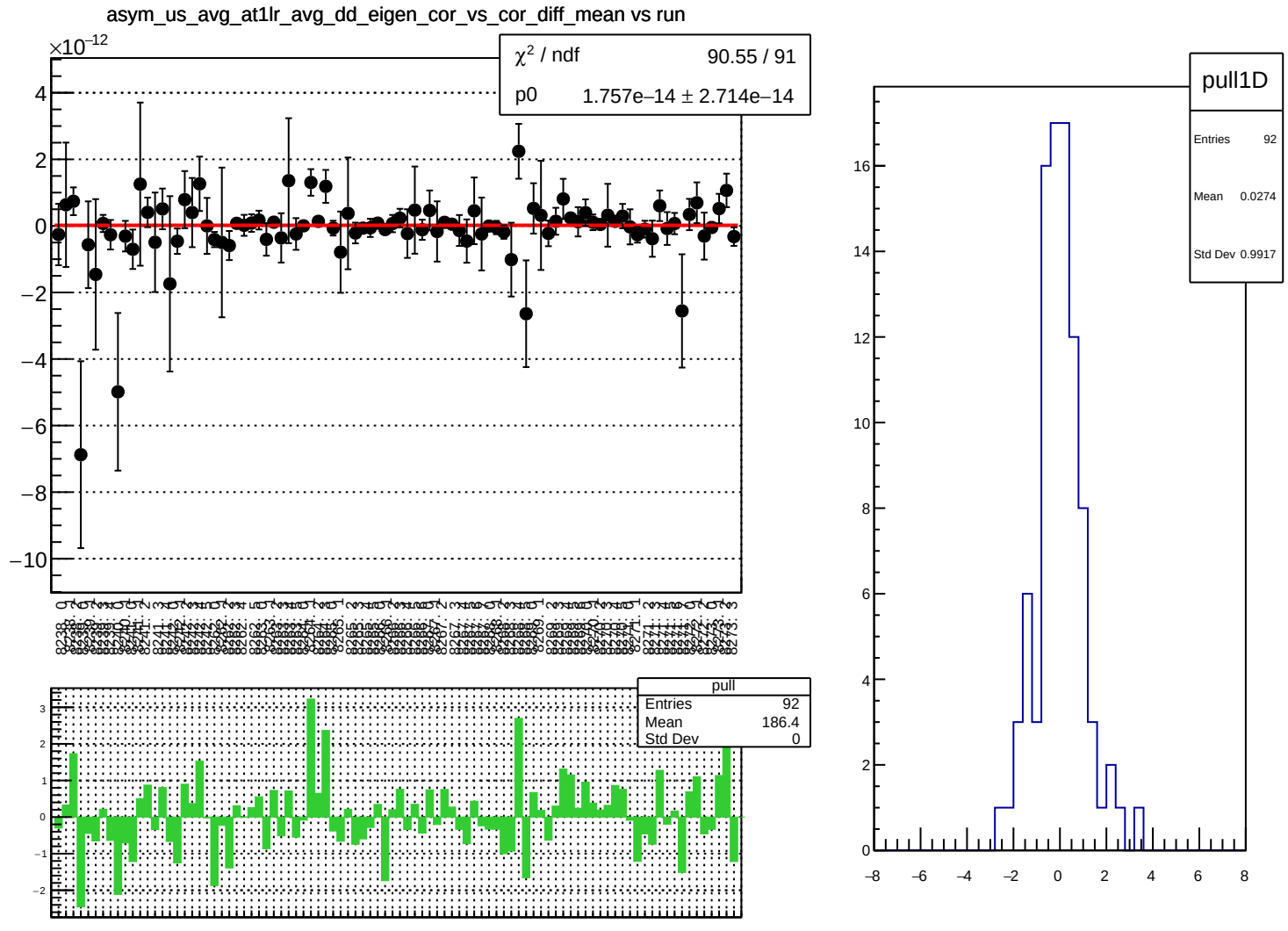

pull1D
Entries 92
Mean 0.0004023
Std Dev 1.024

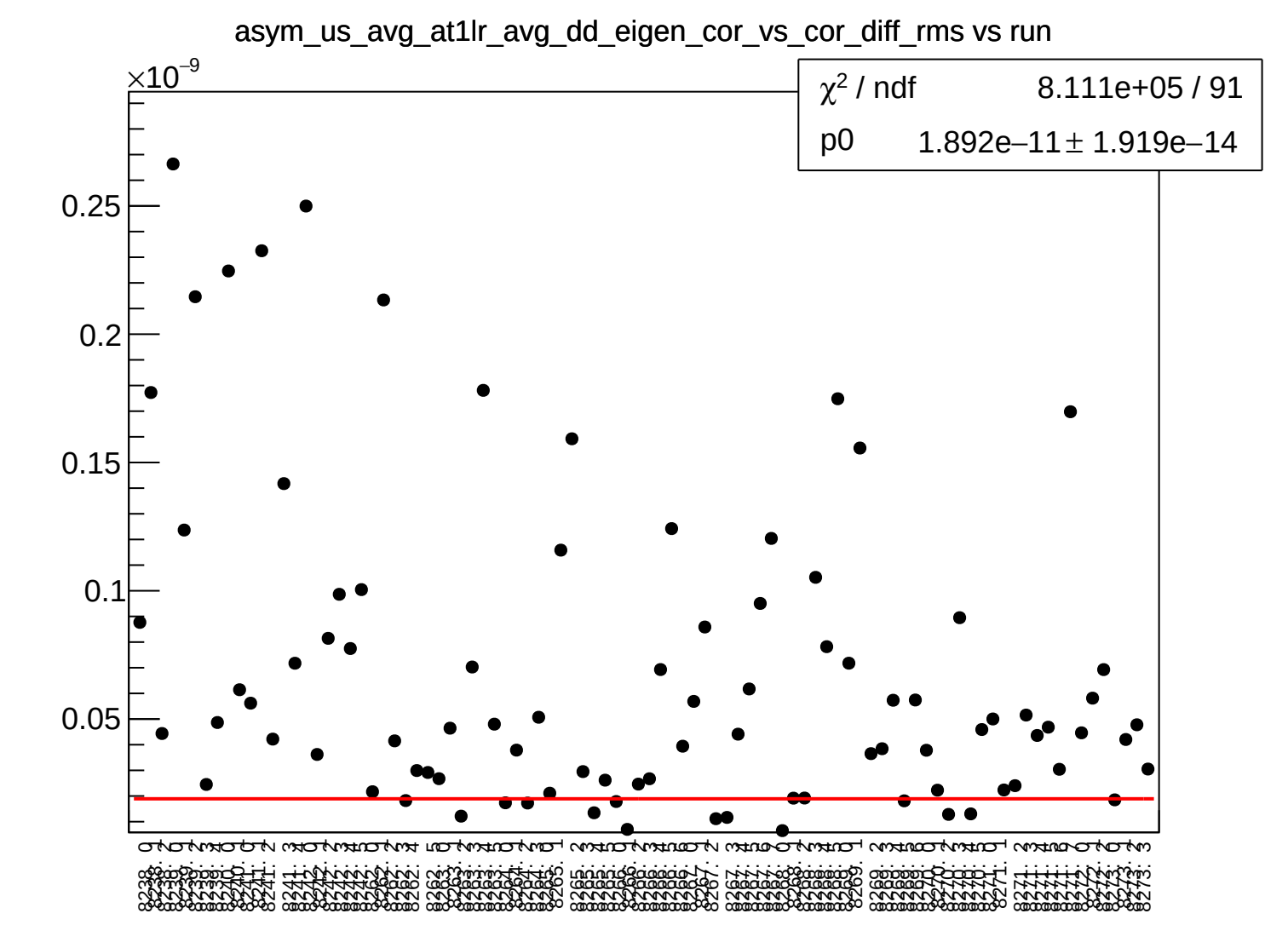

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.851e+05 / 91
p0 56.49 ± 0.04778
220
200
180
160
140
120
100
80
60
40
20

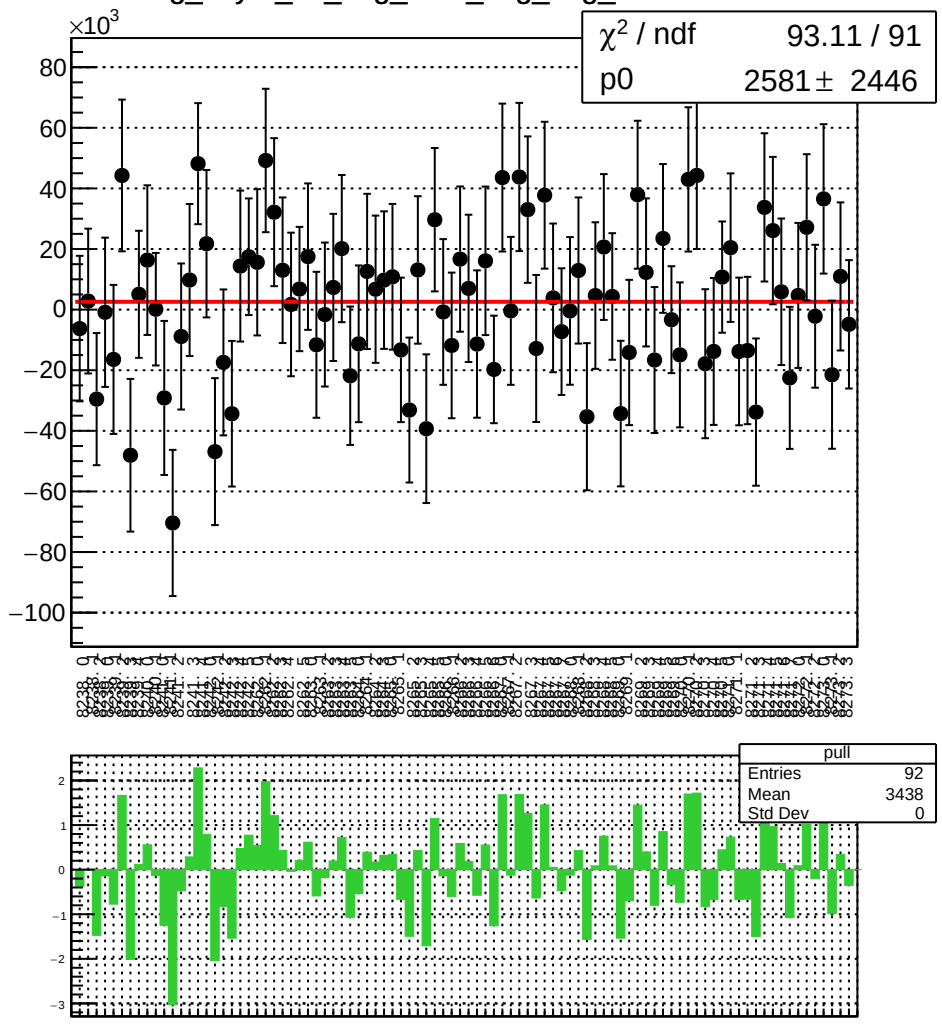

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.45 / 91
p0 −0.03389 ± 0.06757
pull
Entries 92
Mean −5569
Std Dev 0

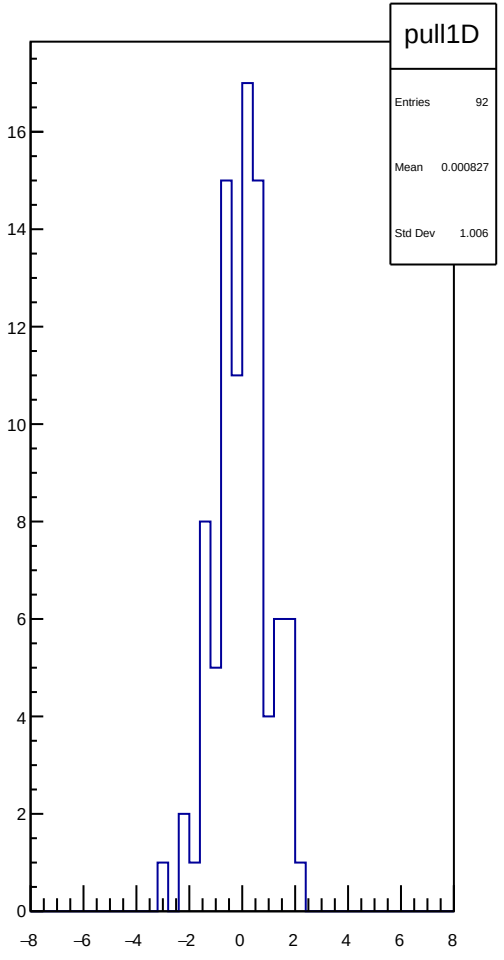

pull1D
Entries 92
Mean 0.0004023
Std Dev 1.024

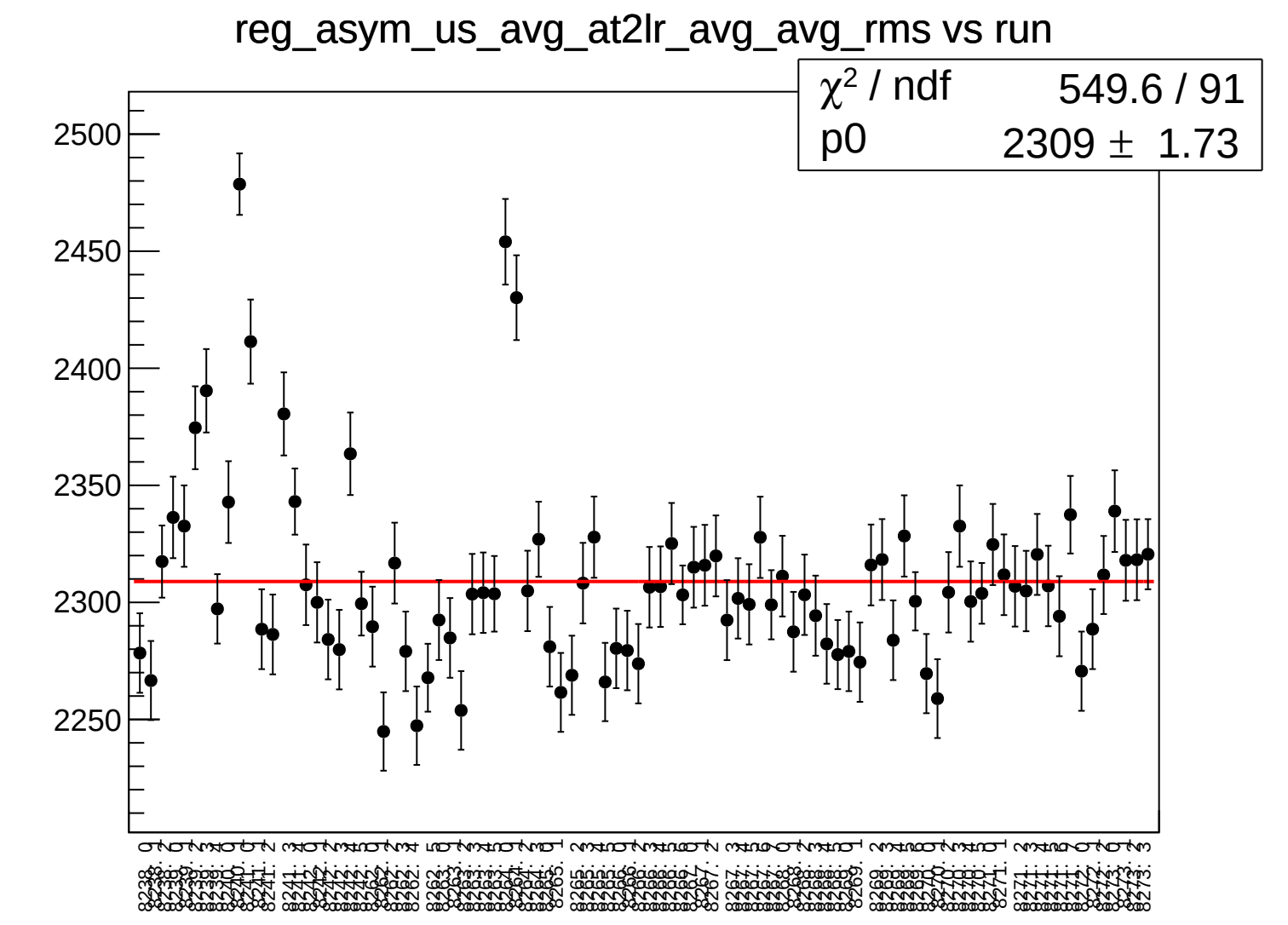

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.851e+05 / 91
p0 56.49 ± 0.04778
220
200
180
160
140
120
100
80
60
40
20

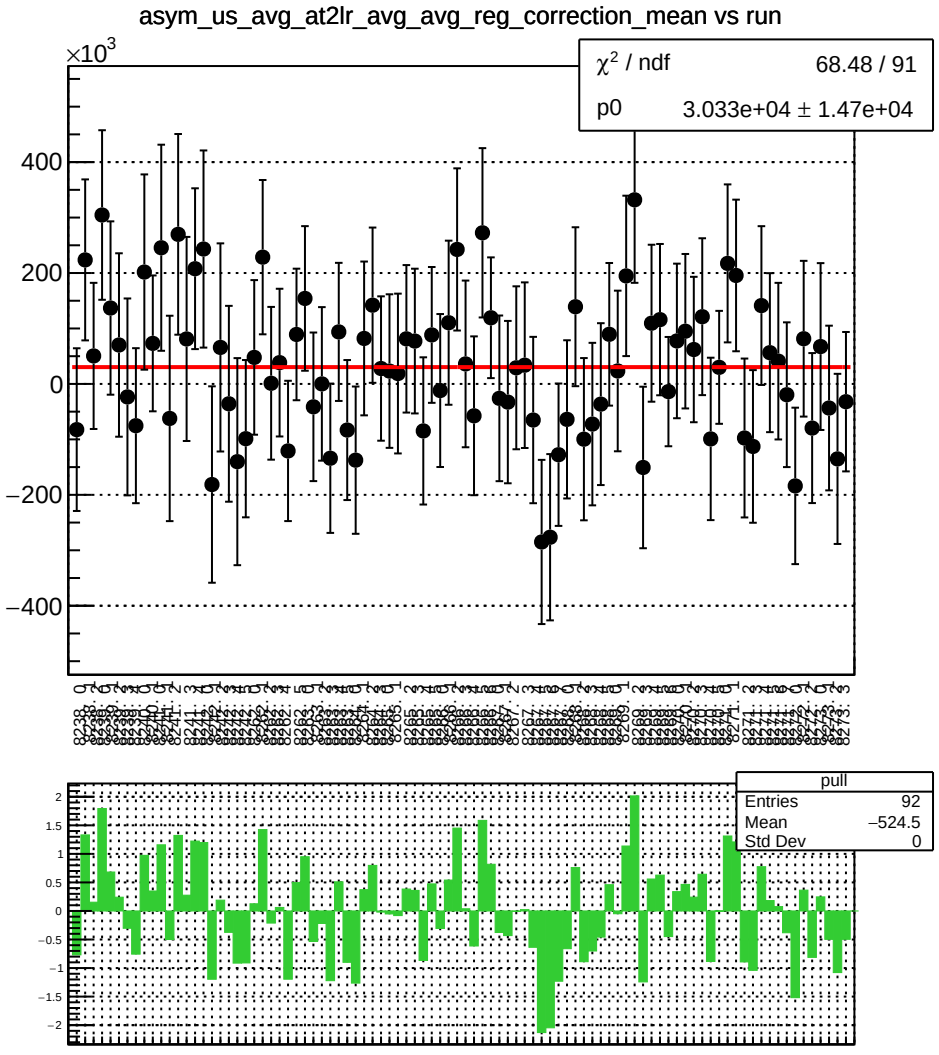

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.55 / 91
p0 1.757e−14 ± 2.714e−14
pull
Entries 92
Mean 186.4
Std Dev 0
pull1D
Entries 92
Mean 0.0274
Std Dev 0.9917

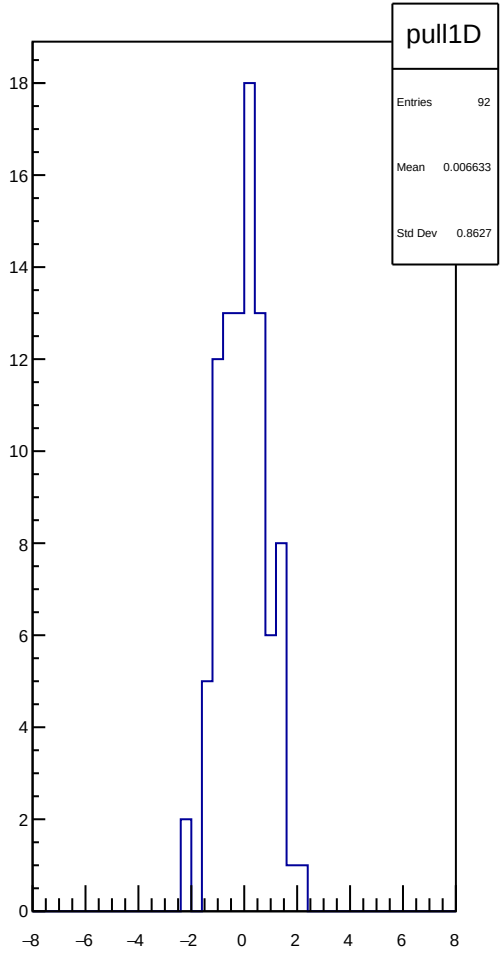

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.111e+05 / 91
p0 1.892e−11 ± 1.919e−14
0.25
0.2
0.15
0.1
0.05

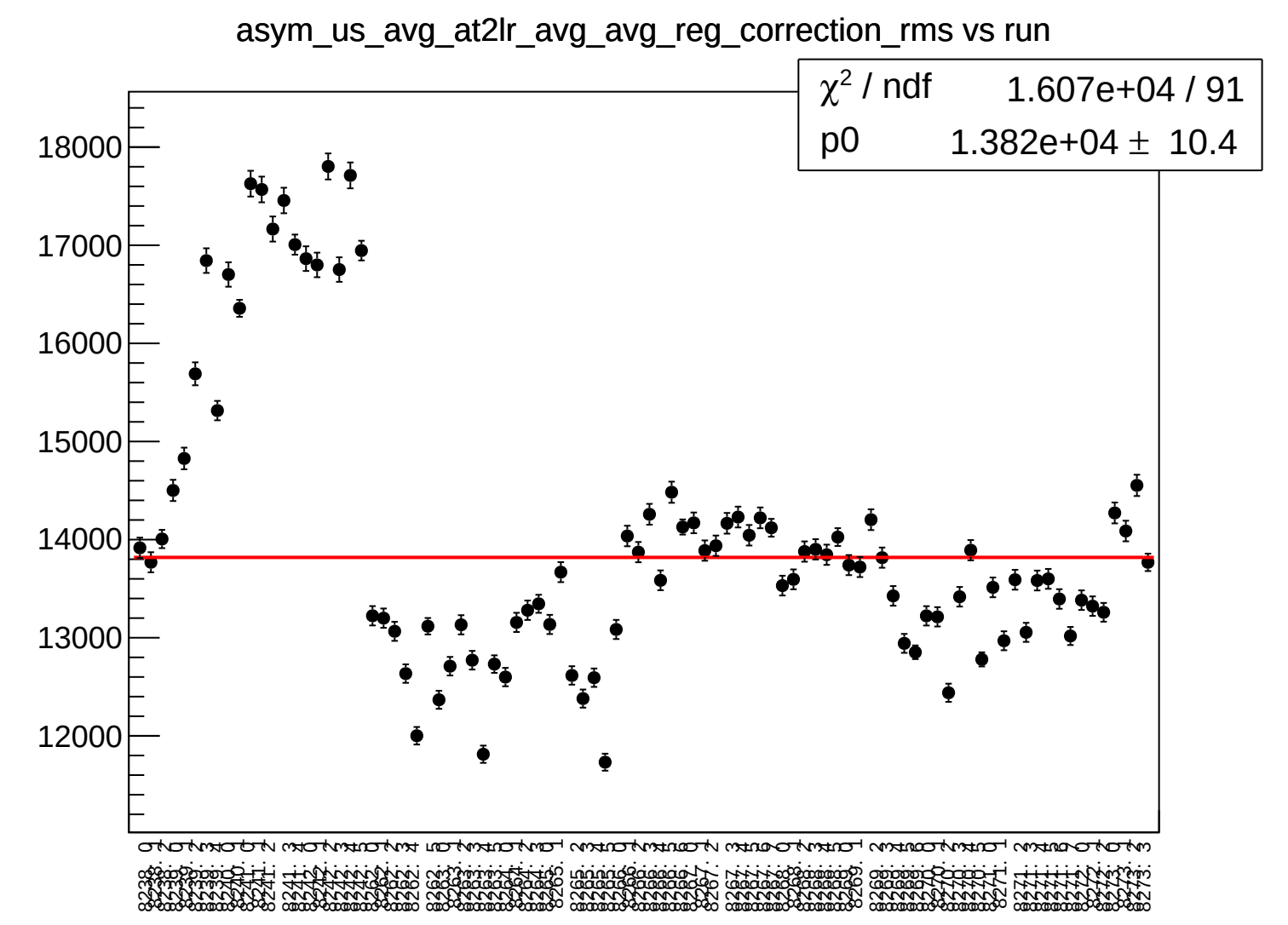

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 93.11 / 91
p0 2581 ± 2446
pull
Entries 92
Mean 3438
Std Dev 0

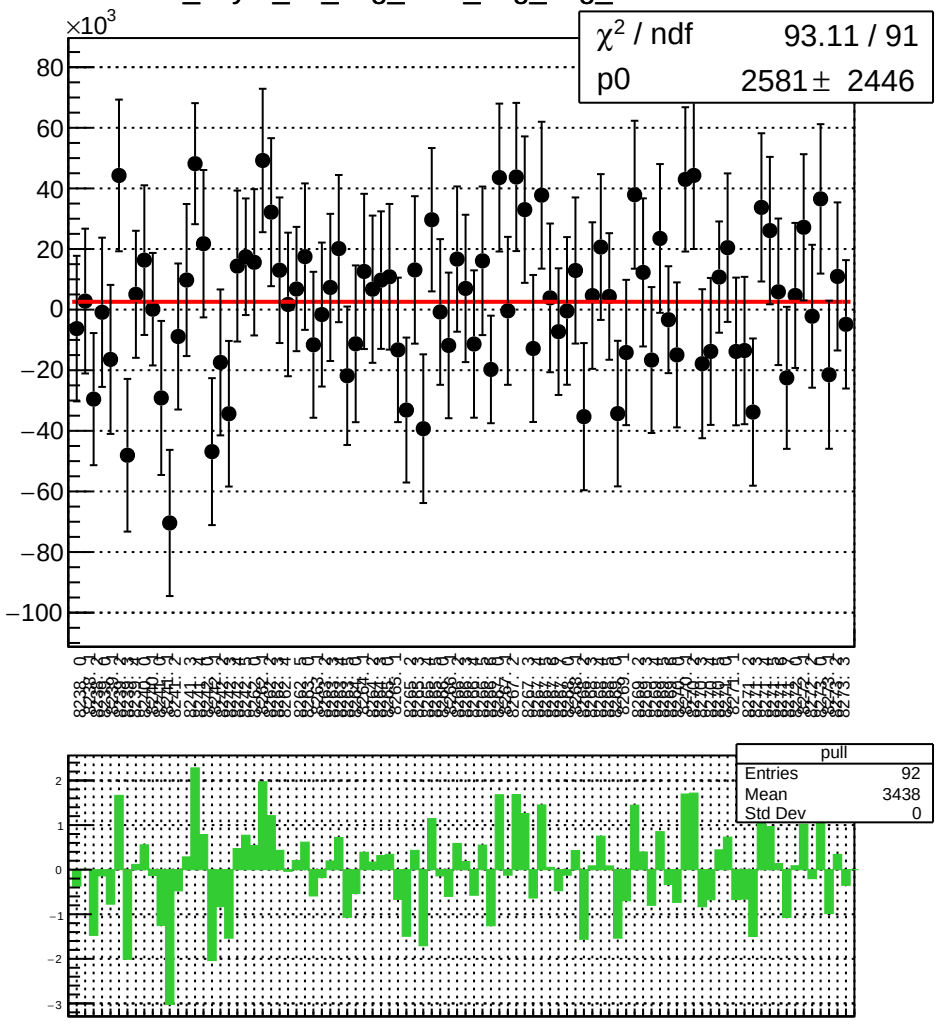

pull1D
Entries 92
Mean 0.000827
Std Dev 1.006

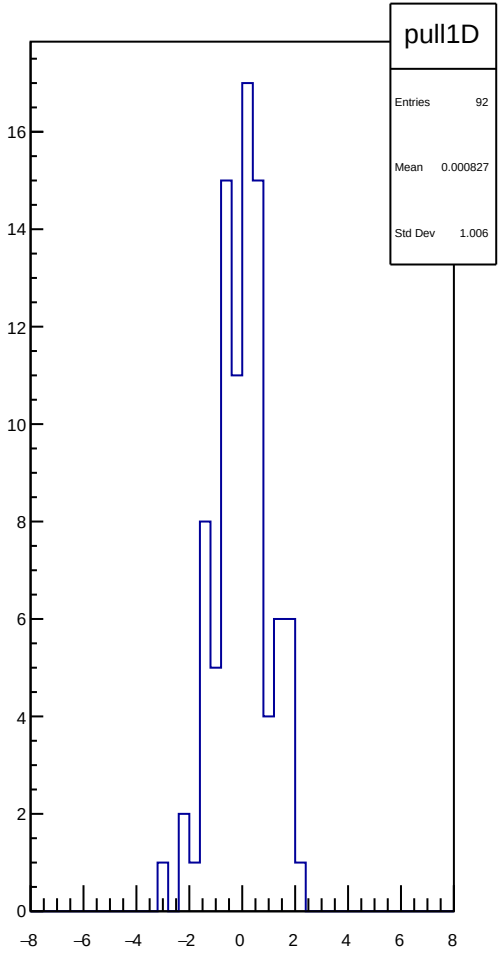

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 549.6 / 91
p0 2309 ± 1.73
2500
2450
2400
2350
2300
2250

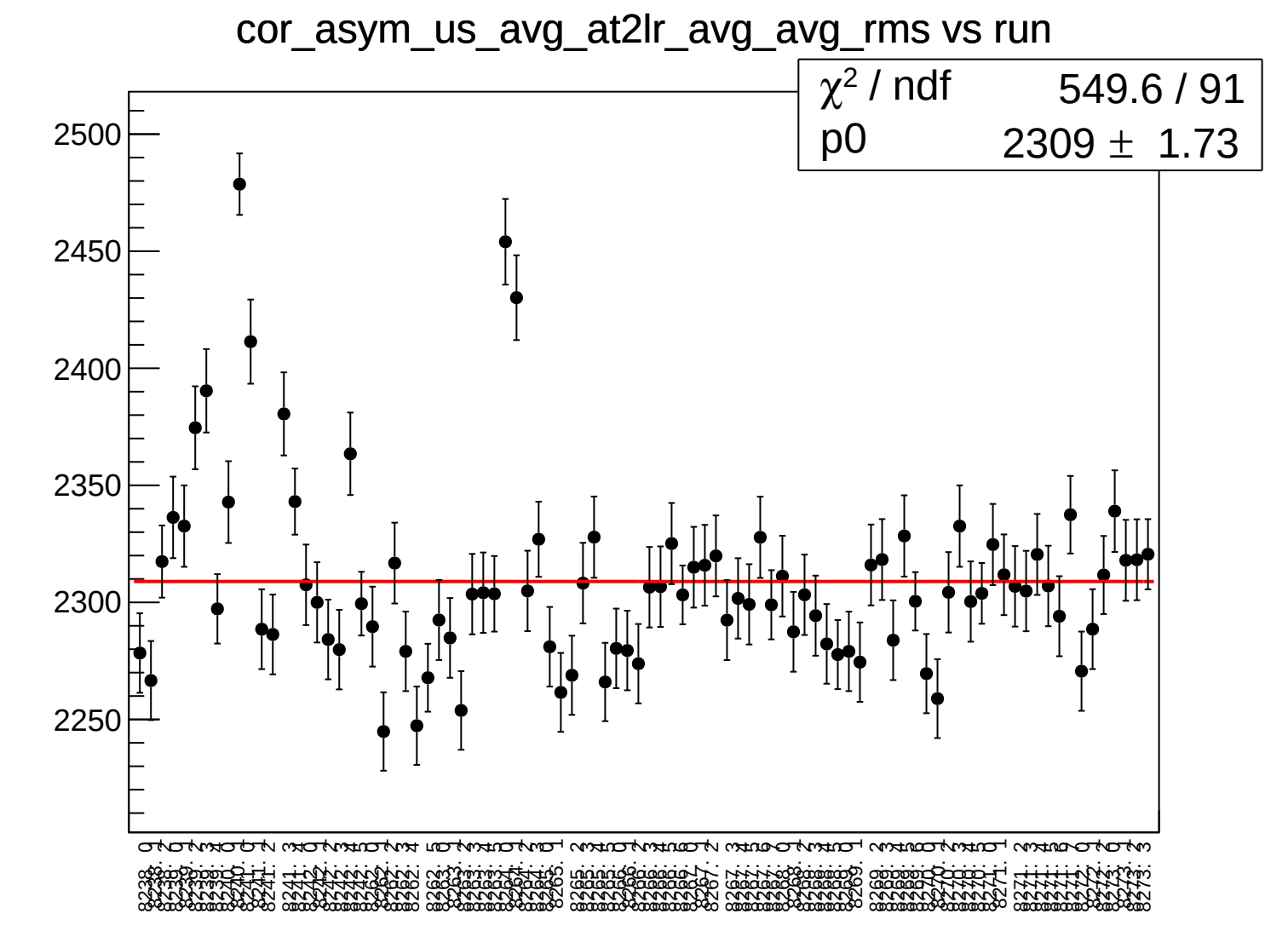

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 68.48 / 91
p0 3.033e+04 ± 1.47e+04
400
200
0
−200
−400
pull
Entries 92
Mean −524.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

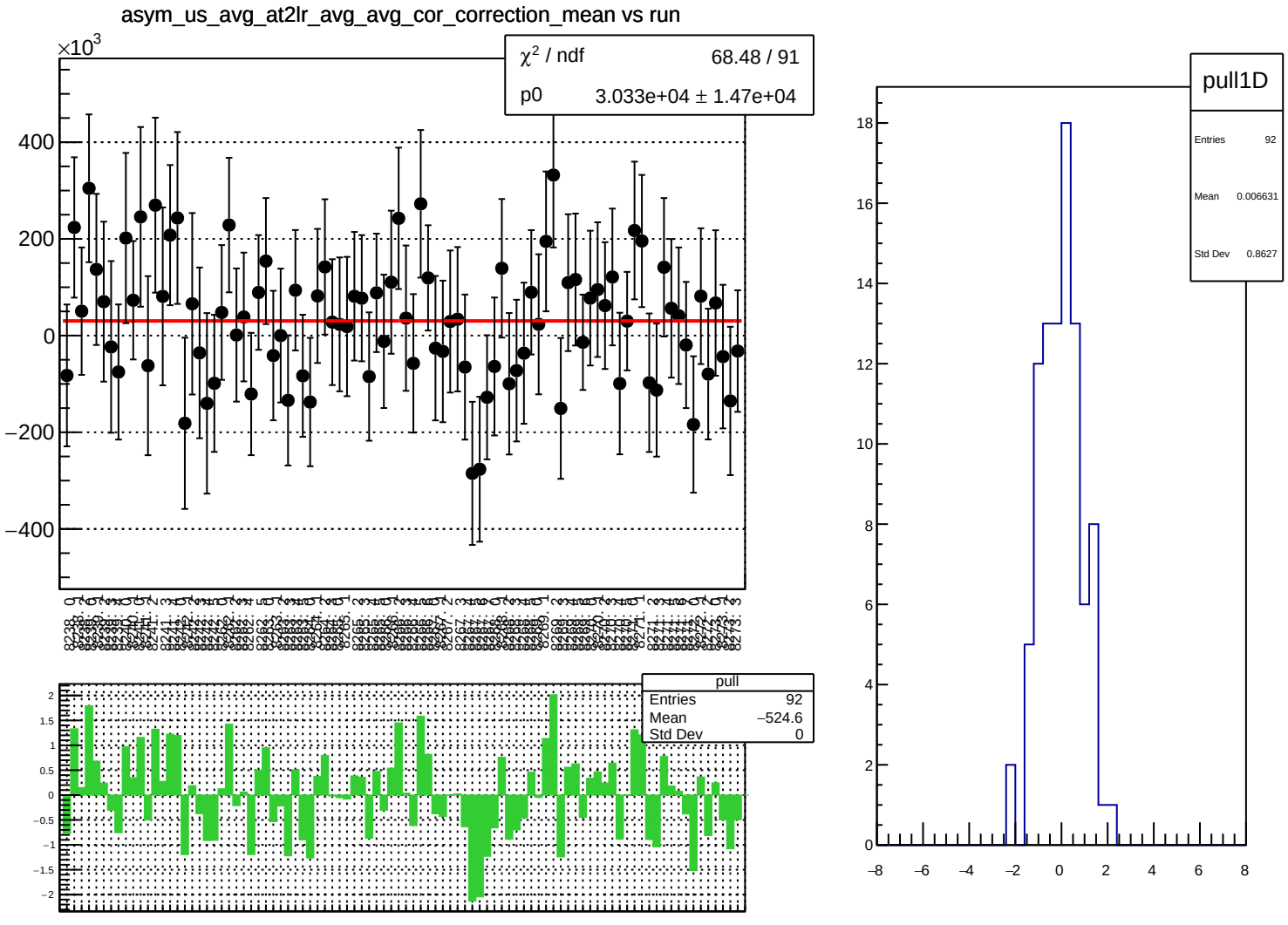

pull1D
Entries 92
Mean 0.006633
Std Dev 0.8627
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

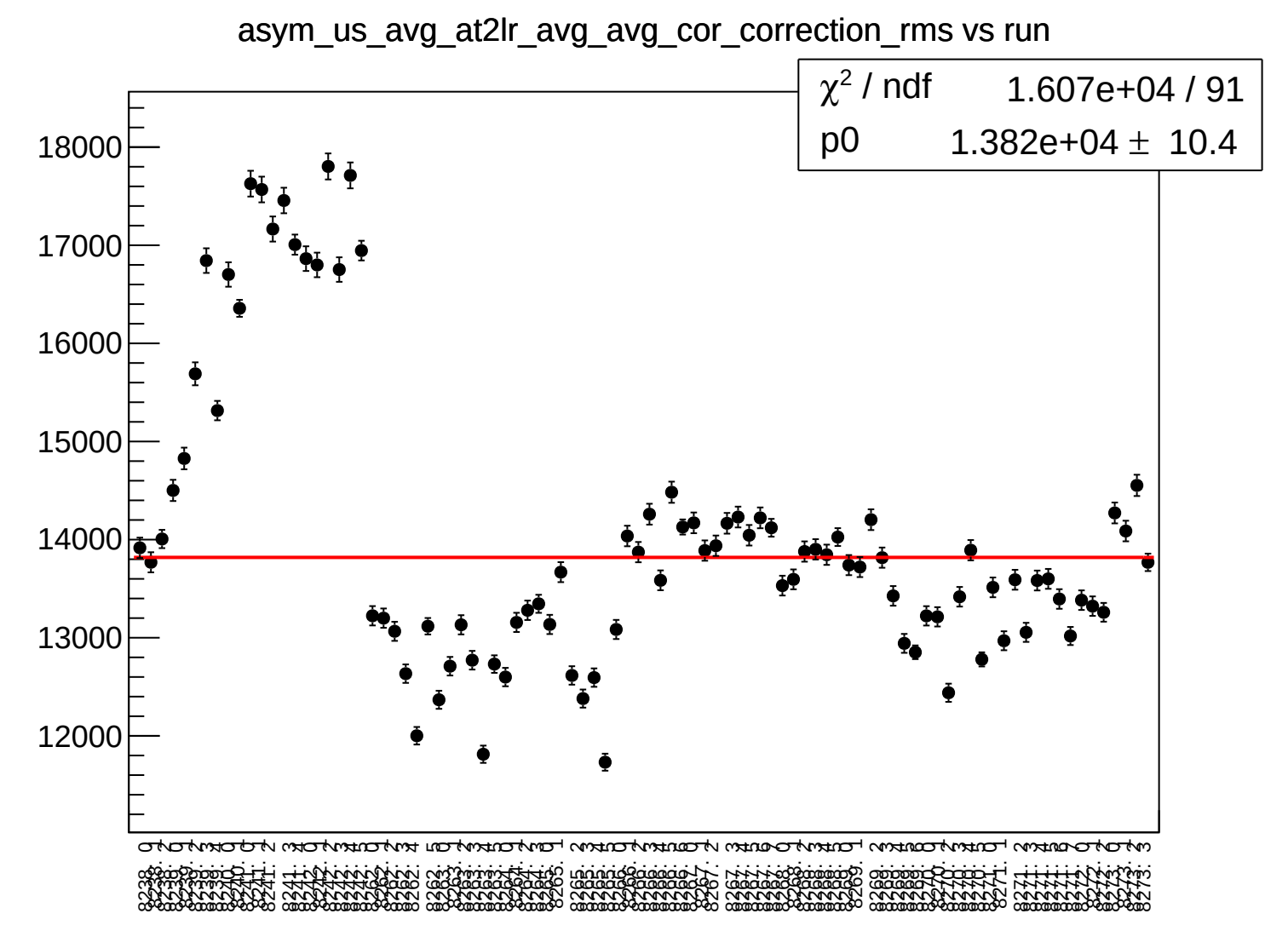

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.607e+04 / 91
p0 1.382e+04 ± 10.4
18000
17000
16000
15000
14000
13000
12000

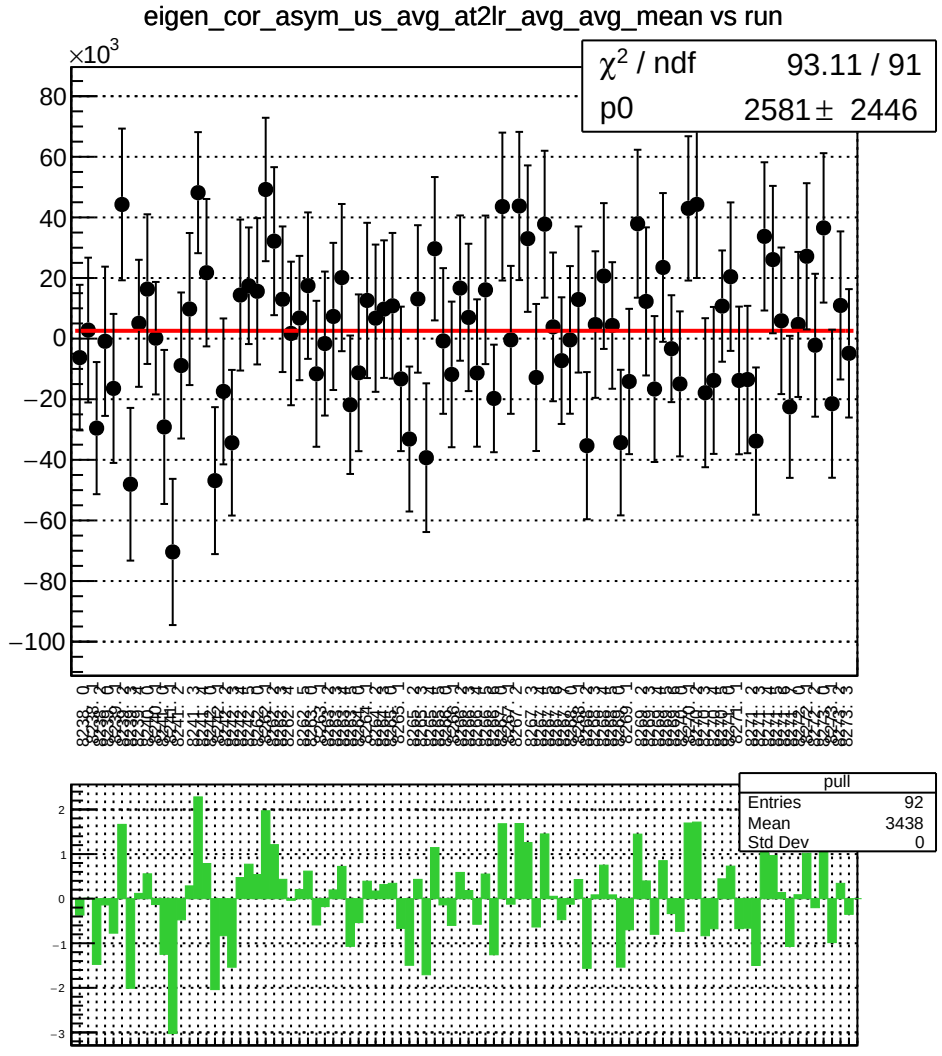

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 93.11 / 91
p0 2581 ± 2446
pull
Entries 92
Mean 3438
Std Dev 0

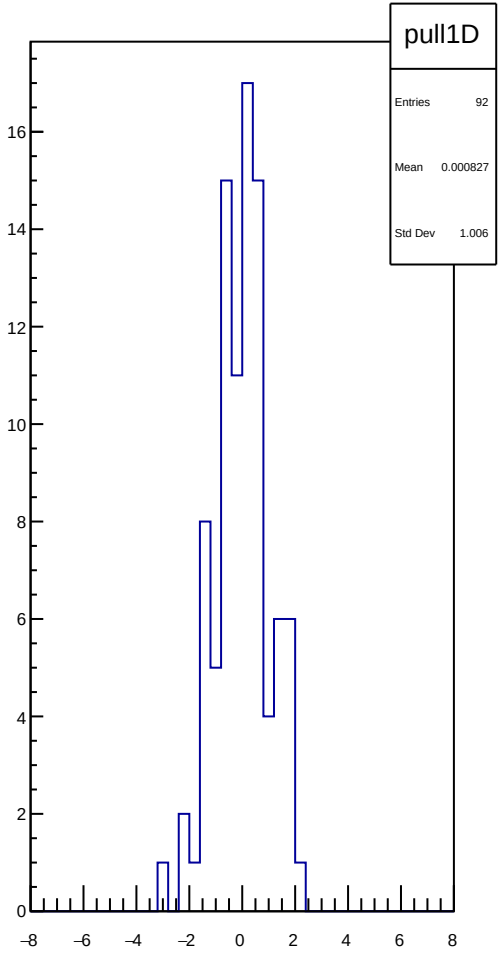

pull1D
Entries 92
Mean 0.000827
Std Dev 1.006

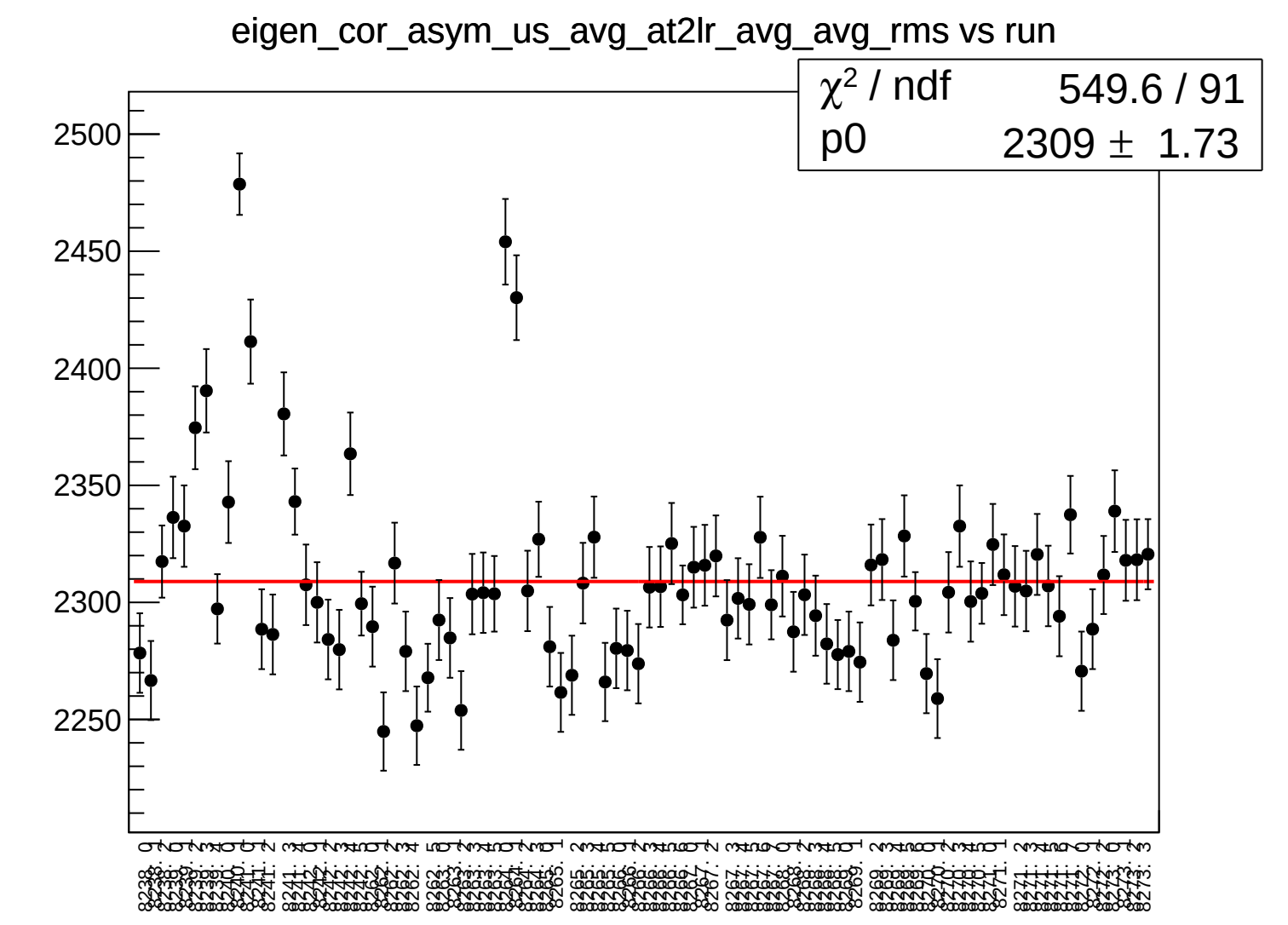

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 549.6 / 91
p0 2309 ± 1.73
2500
2450
2400
2350
2300
2250

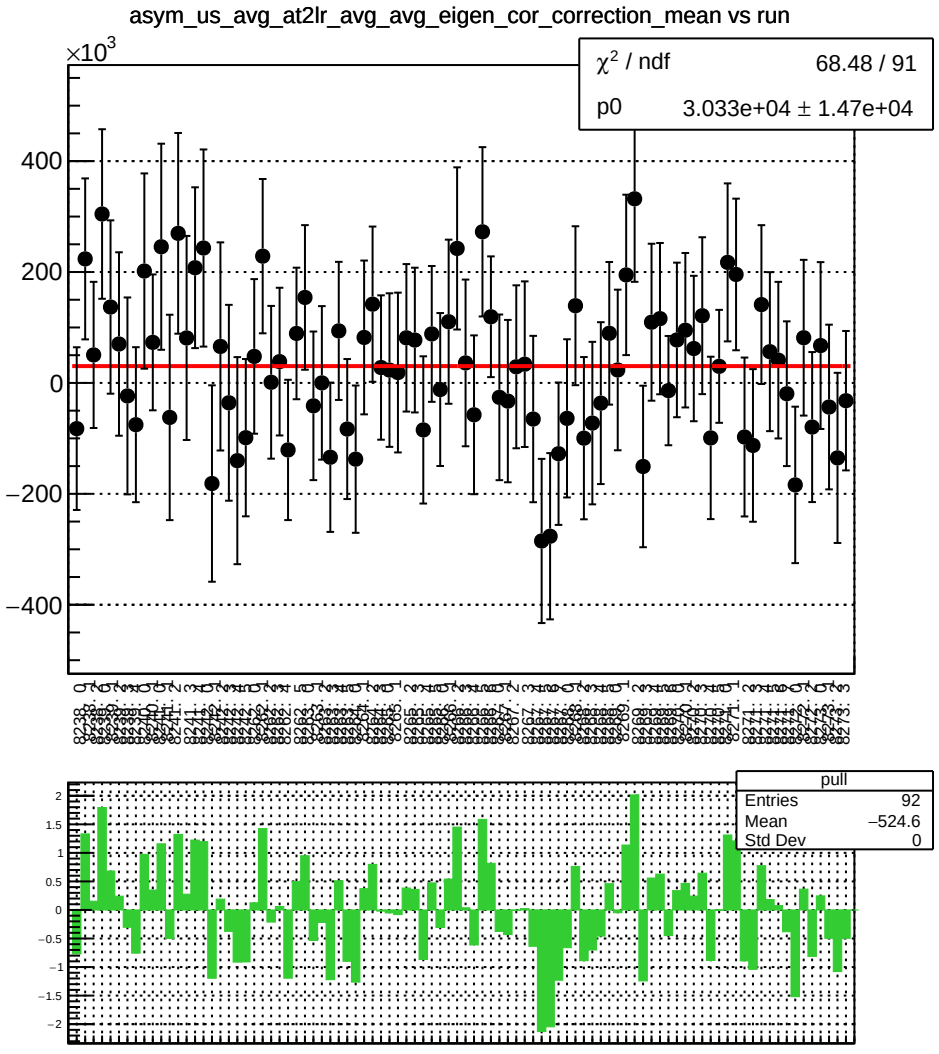

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 68.48 / 91
p0 3.033e+04 ± 1.47e+04
400
200
0
−200
−400
pull
Entries 92
Mean −524.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.006631
Std Dev 0.8627
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

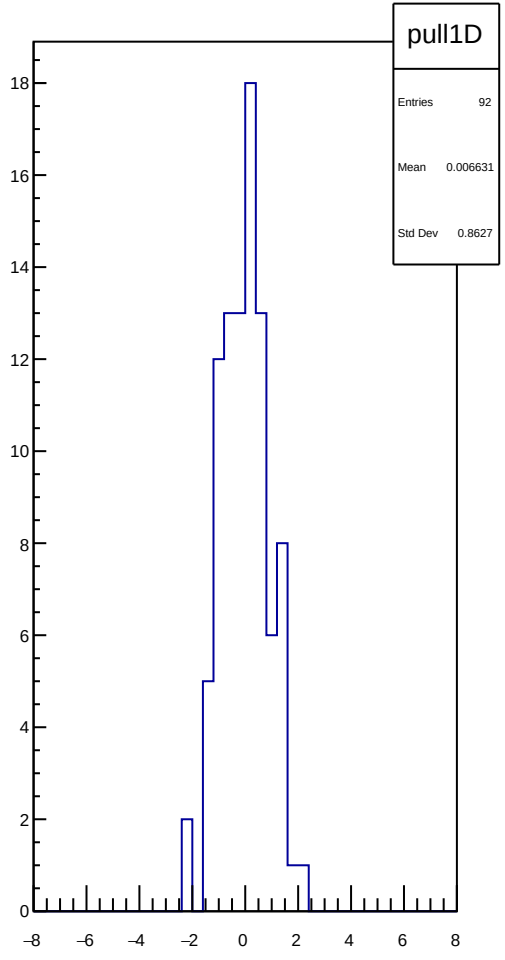

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.607e+04 / 91
p0 1.382e+04 ± 10.4
18000
17000
16000
15000
14000
13000
12000


eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 93.11 / 91
p0 2581 ± 2446
pull
Entries 92
Mean 3438
Std Dev 0


pull1D
Entries 92
Mean 0.000827
Std Dev 1.006


eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 549.6 / 91
p0 2309 ± 1.73
2500
2450
2400
2350
2300
2250


asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 68.48 / 91
p0 3.033e+04 ± 1.47e+04
400
200
0
−200
−400
pull
Entries 92
Mean −524.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 92
Mean 0.006631
Std Dev 0.8627
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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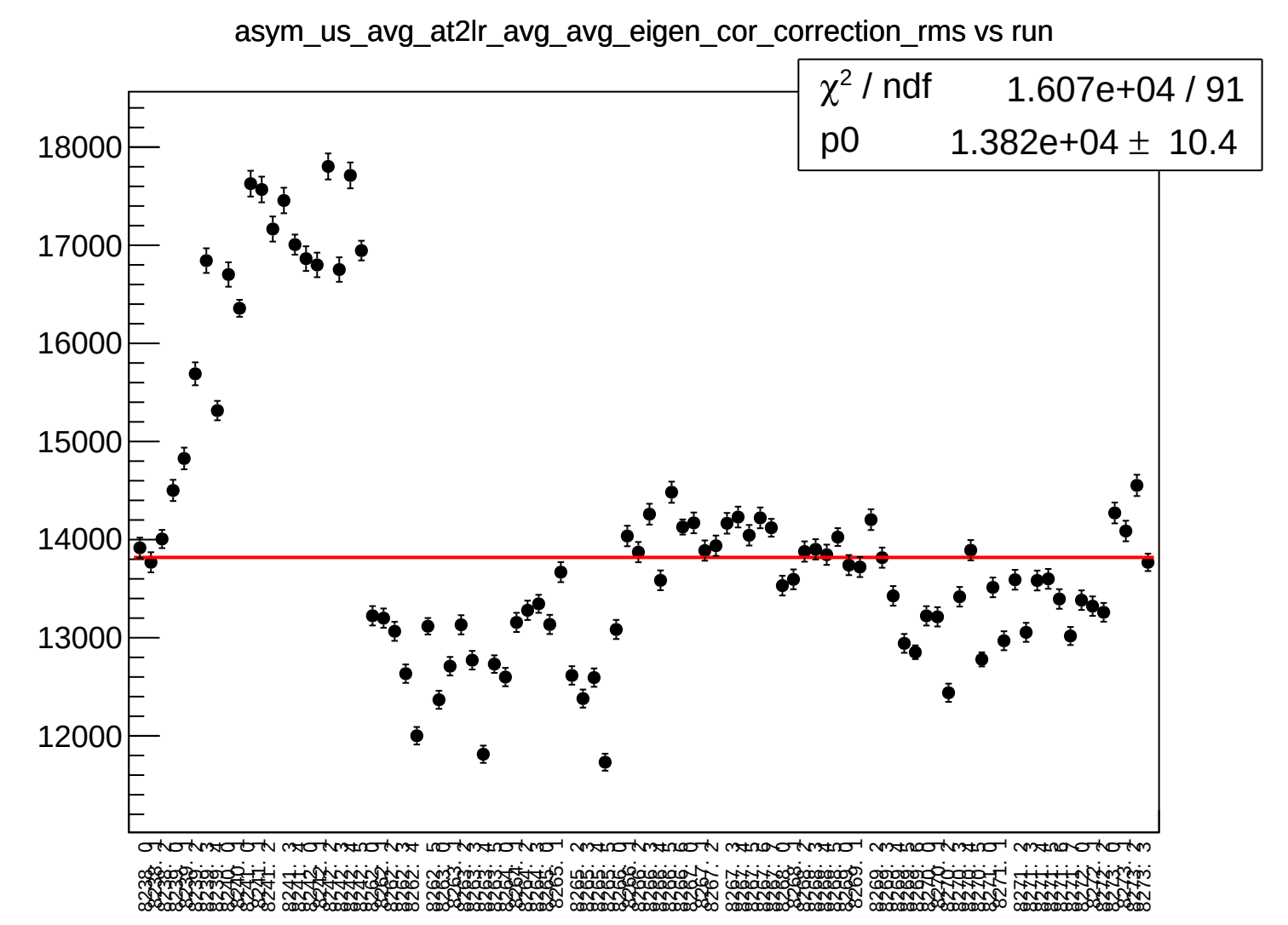
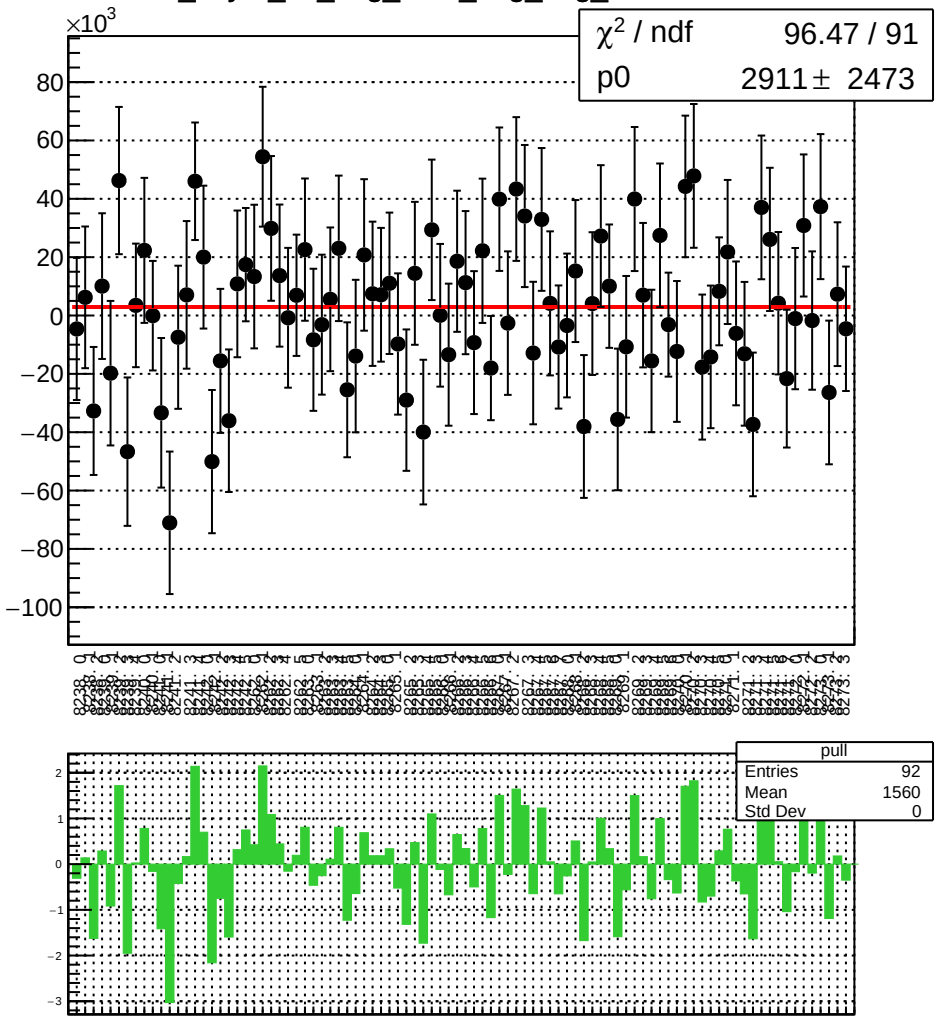
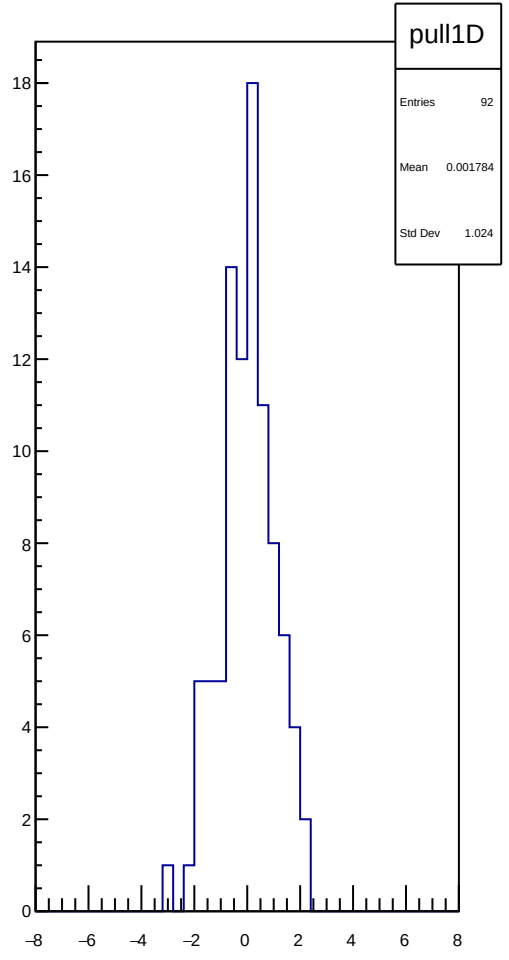
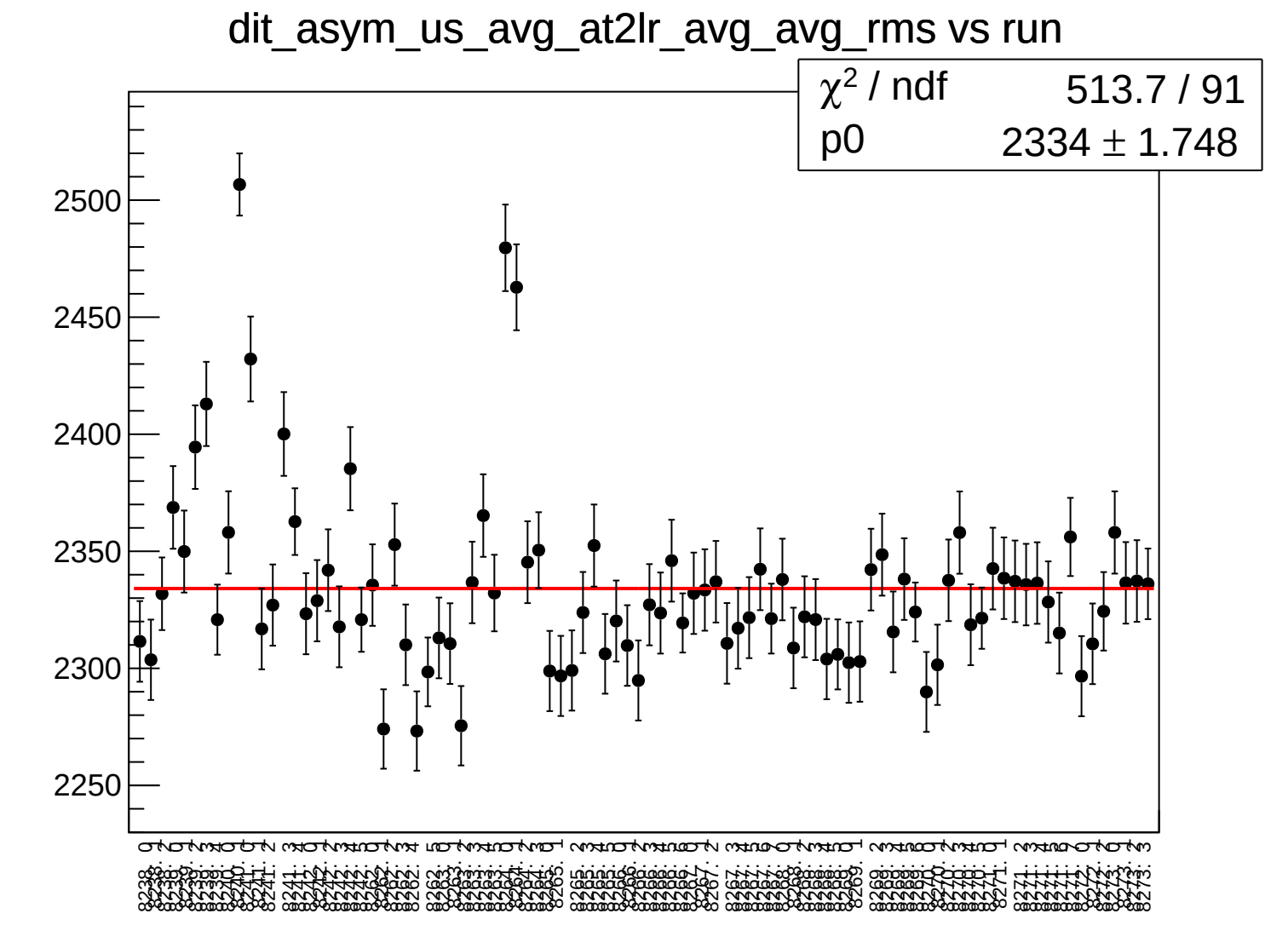
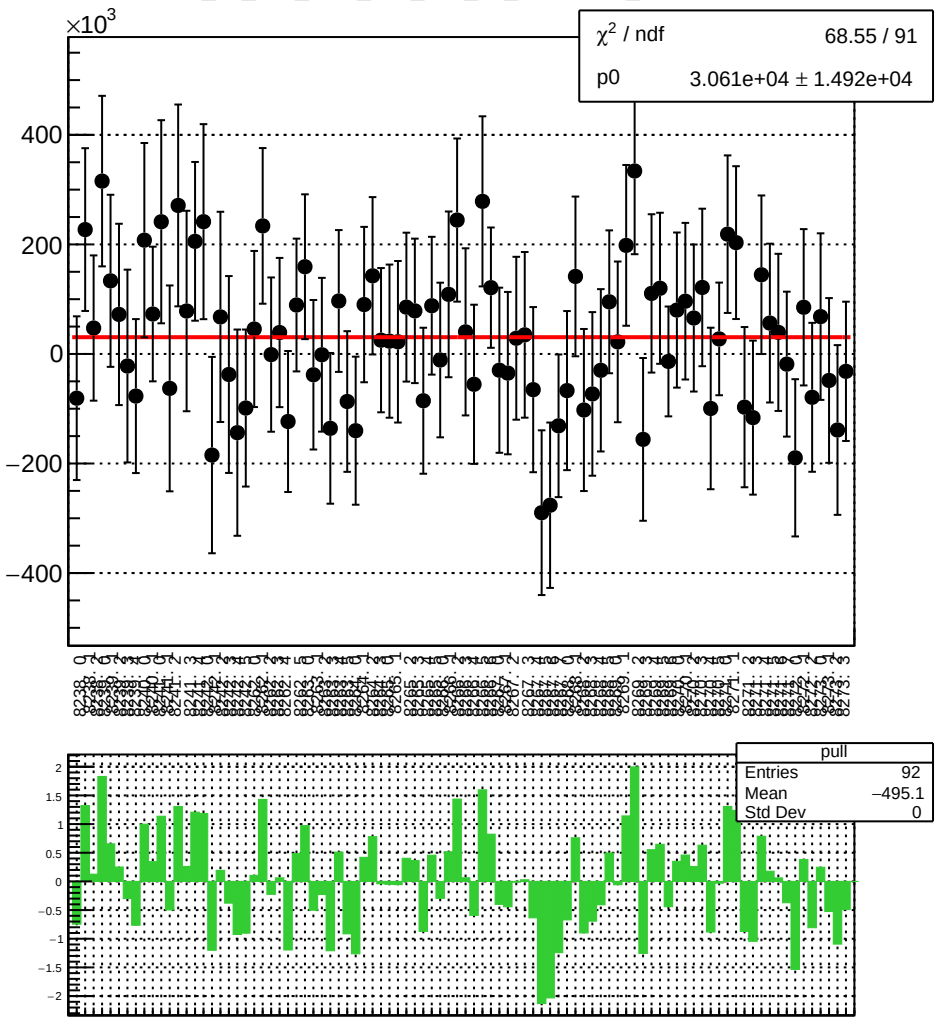
0
2
4
6
8

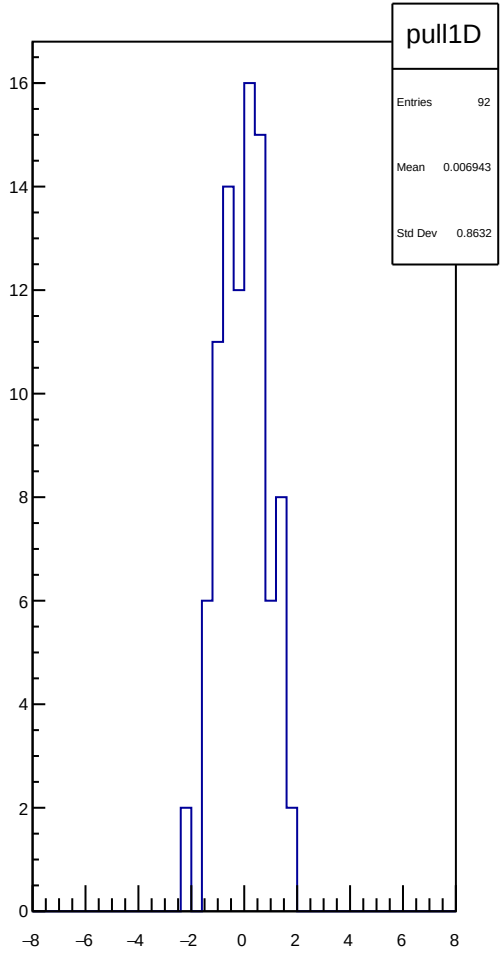

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 1.607e+04 / 91
p0 1.382e+04 ± 10.4
18000
17000
16000
15000
14000
13000
12000

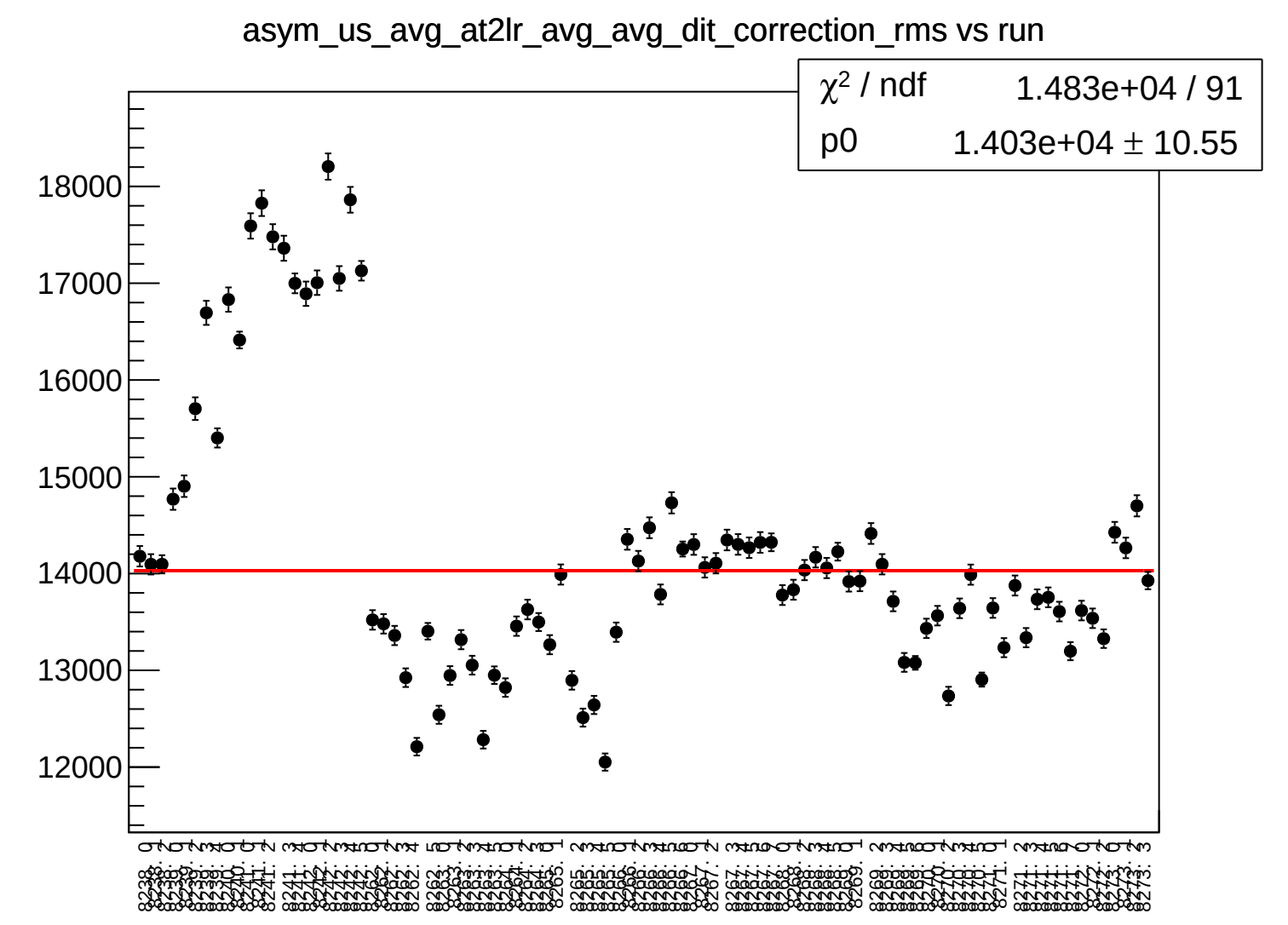

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 96.47 / 91
p0 2911 ± 2473
pull
Entries 92
Mean 1560
Std Dev 0

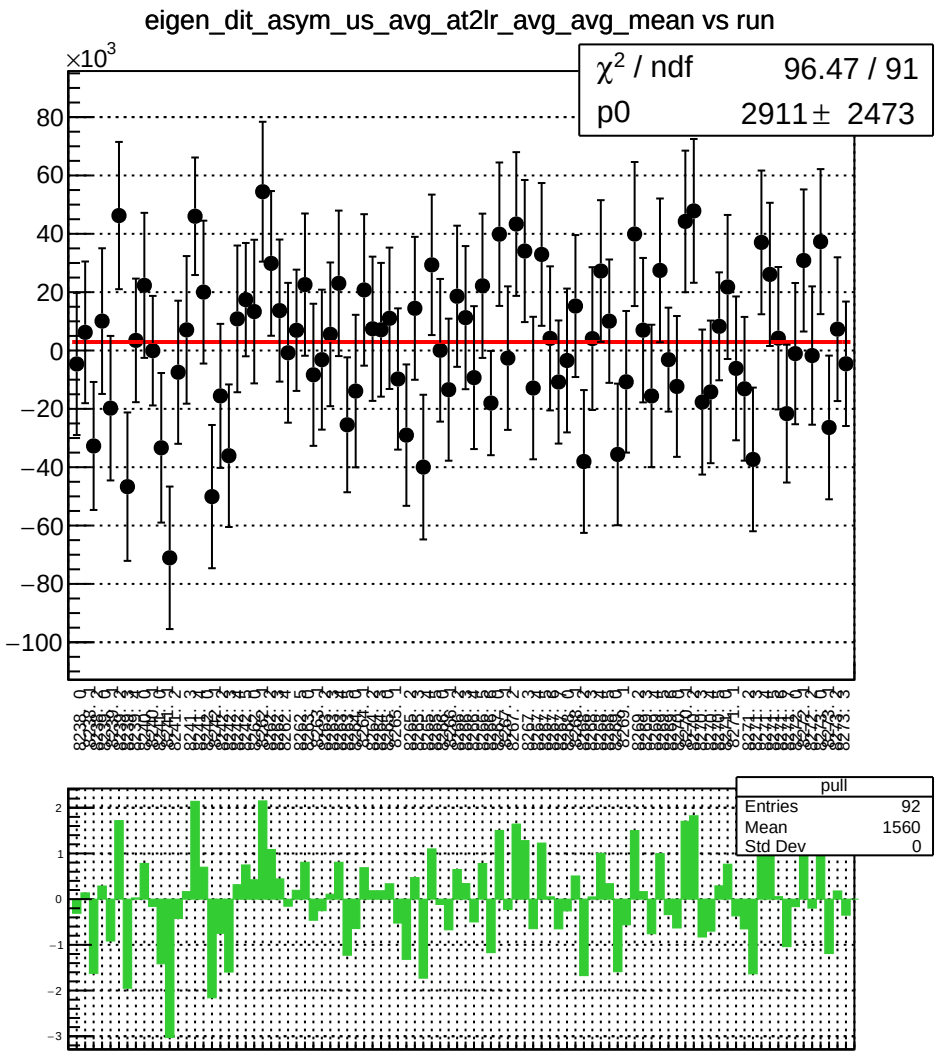

pull1D
Entries 92
Mean 0.001784
Std Dev 1.024

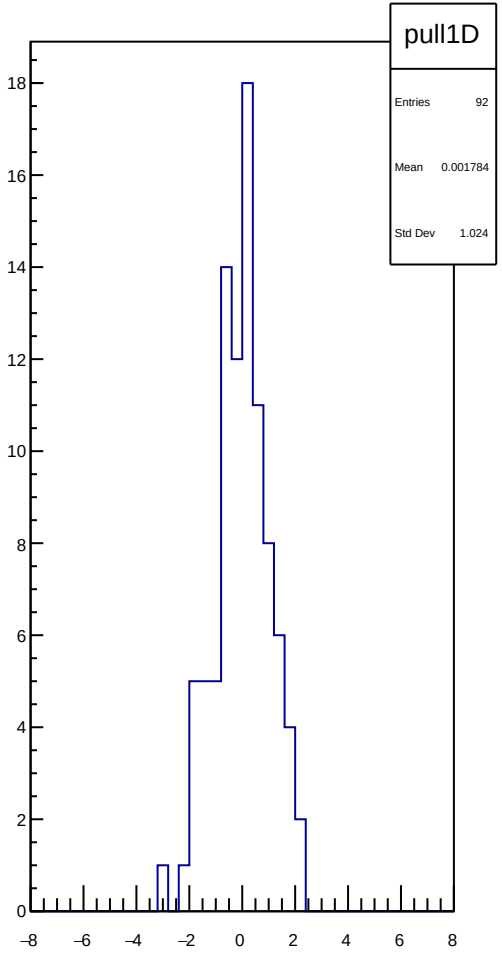

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 513.7 / 91
p0 2334 ± 1.748
2500
2450
2400
2350
2300
2250

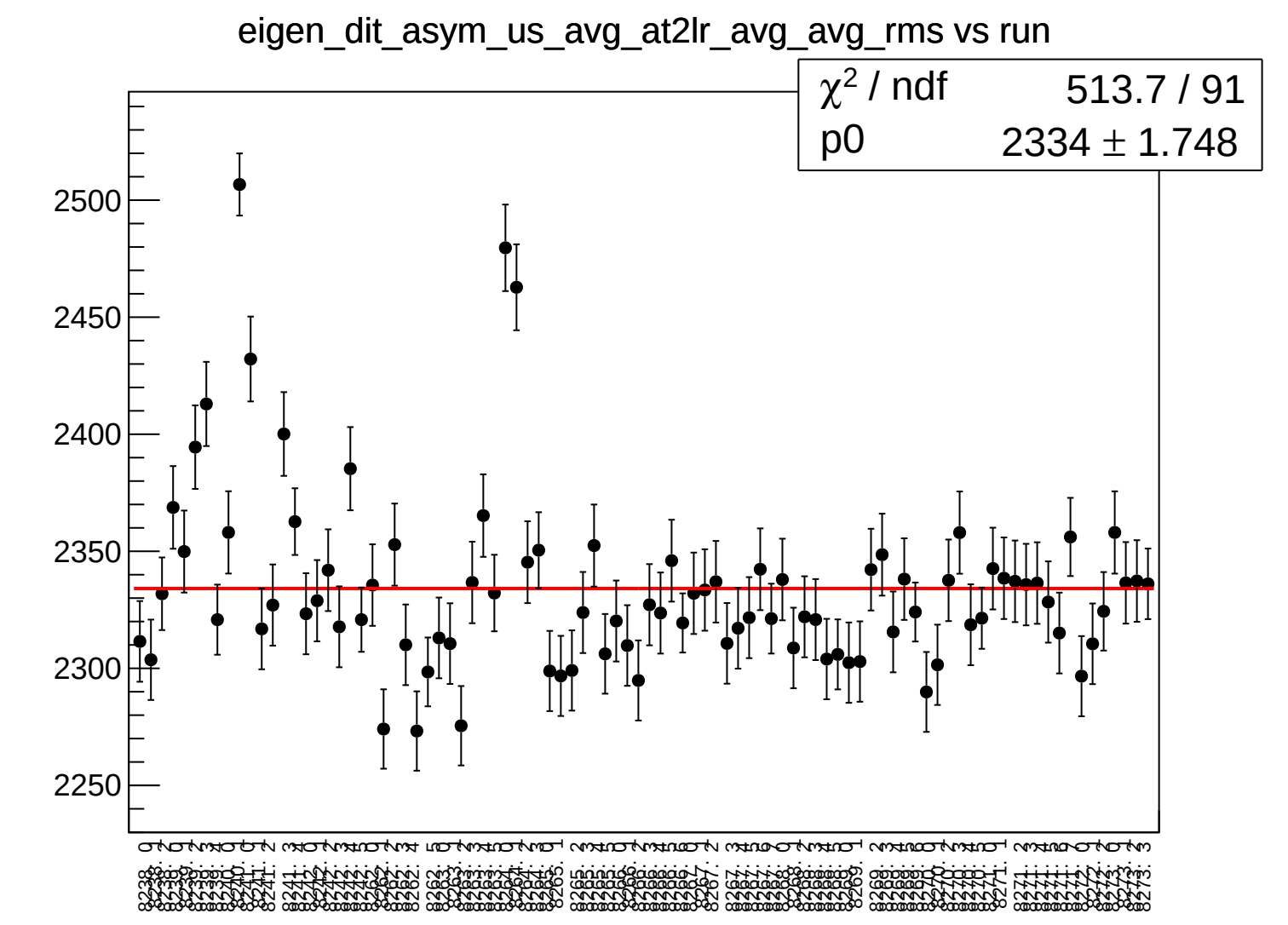

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 68.55 / 91
p0 3.061e+04 ± 1.492e+04
400
200
0
−200
−400
pull
Entries 92
Mean −495.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

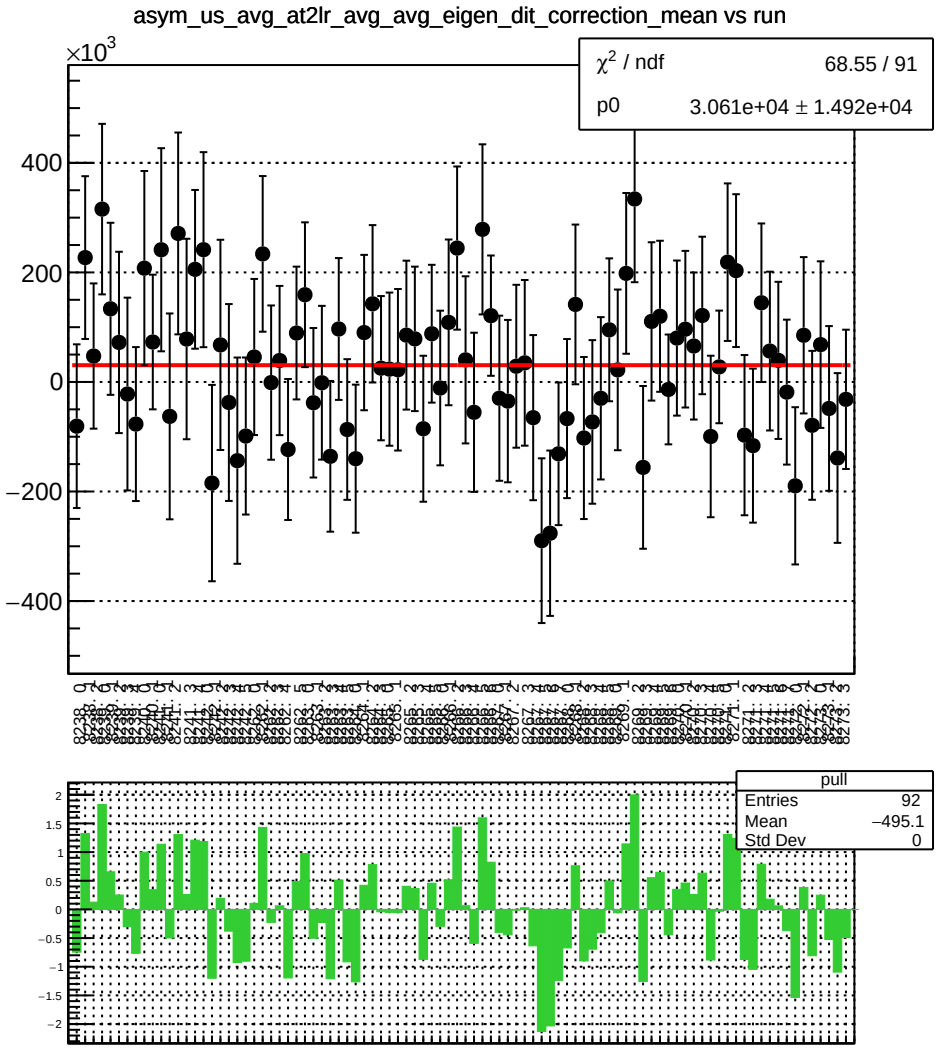

pull1D
Entries 92
Mean 0.006943
Std Dev 0.8632
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

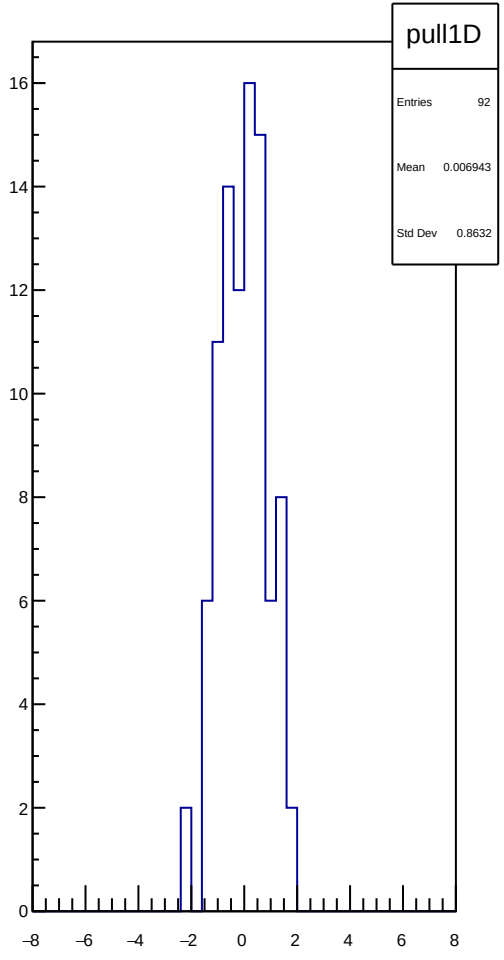

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.483e+04 / 91
p0 1.403e+04 ± 10.55
18000
17000
16000
15000
14000
13000
12000

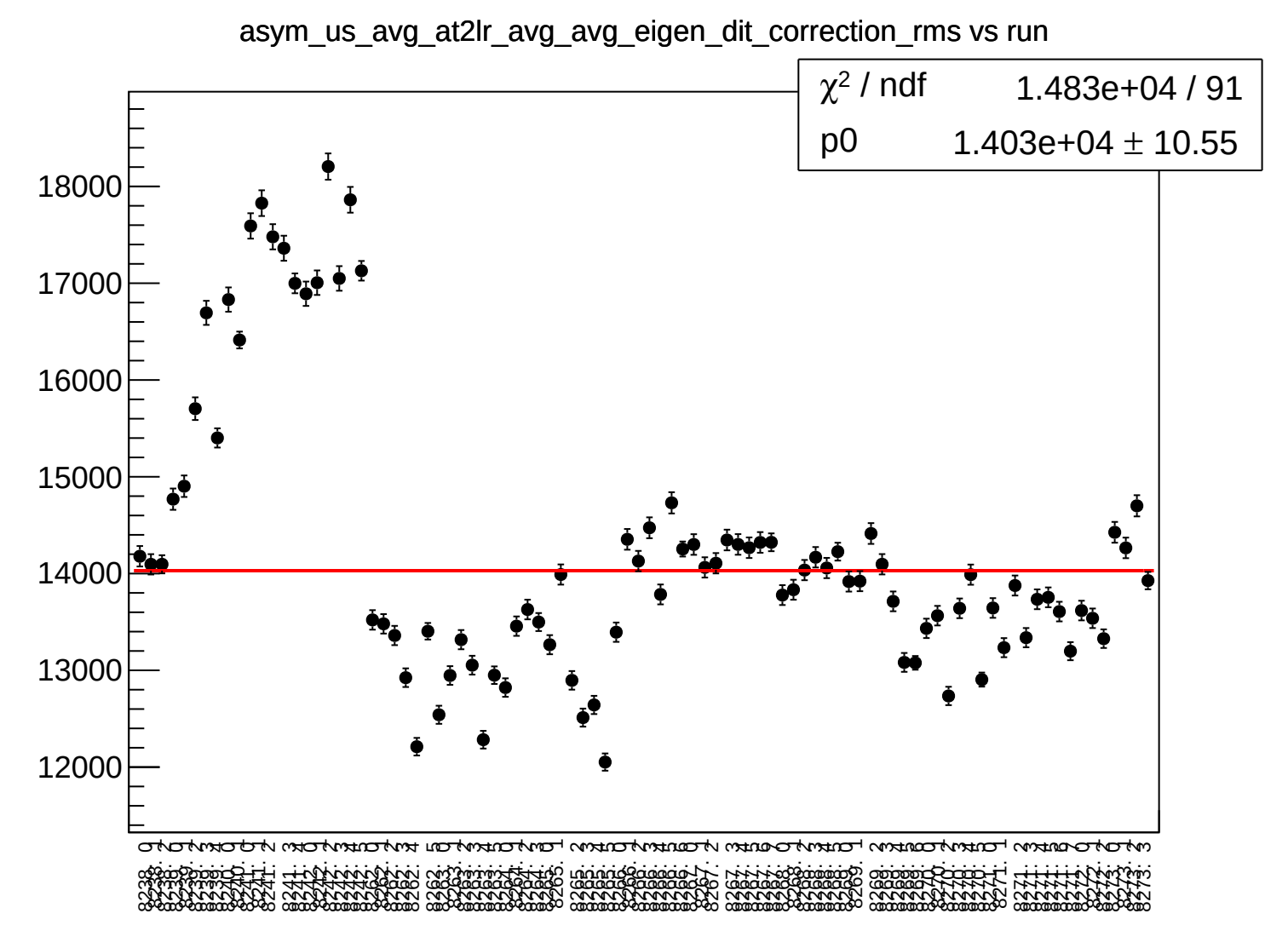

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 96.47 / 91
p0 2911 ± 2473
pull
Entries 92
Mean 1560
Std Dev 0

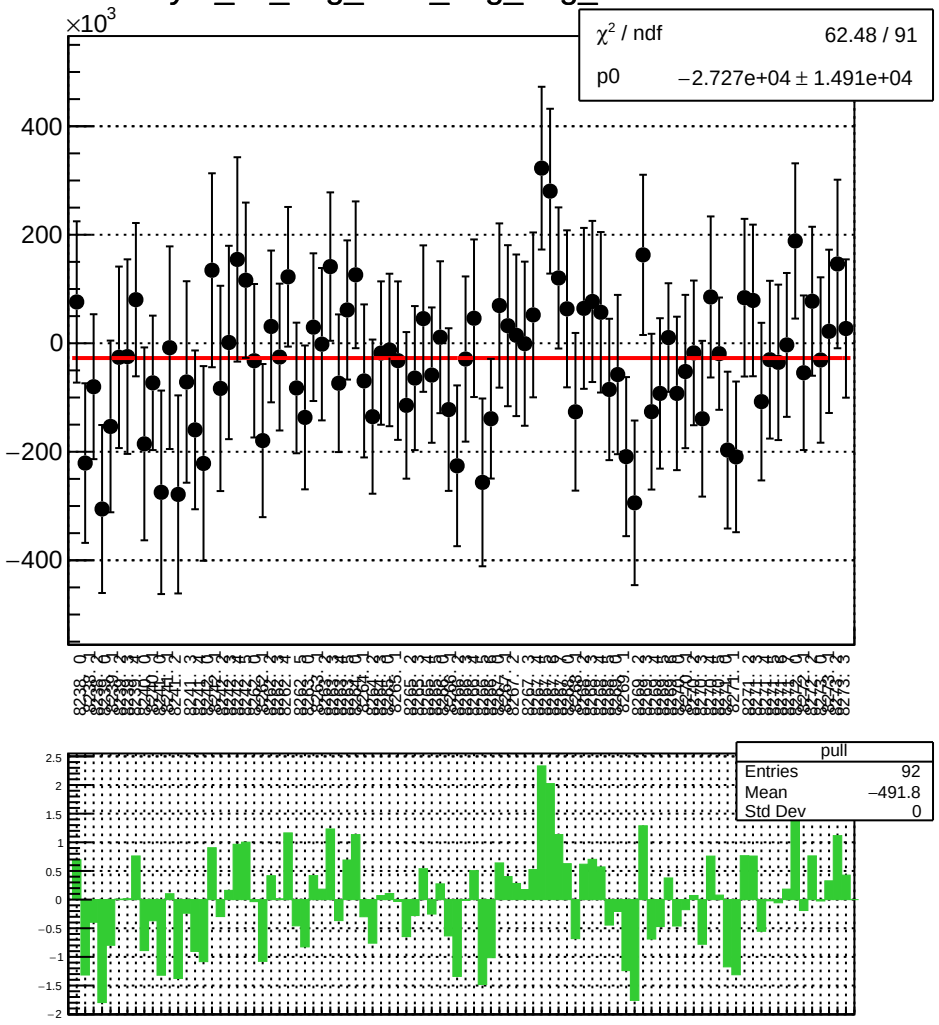

pull1D
Entries 92
Mean 0.001784
Std Dev 1.024

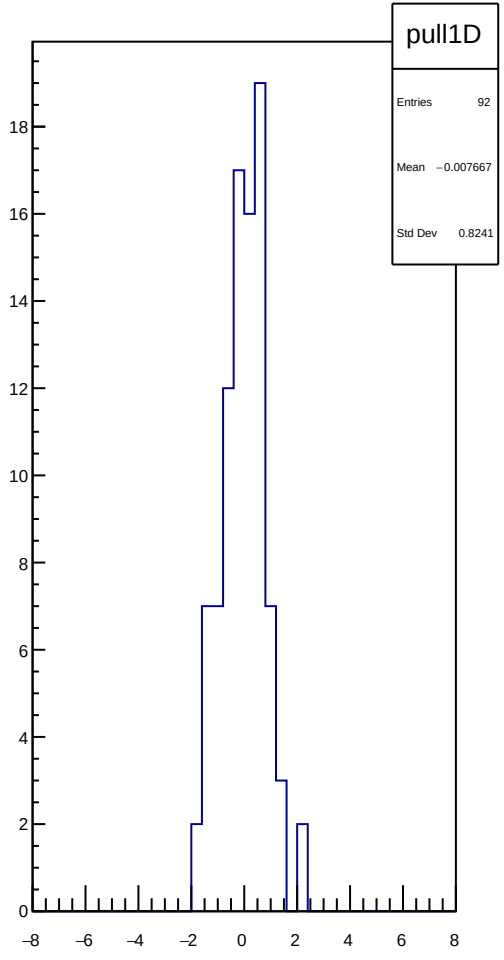

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 513.7 / 91
p0 2334 ± 1.748
2500
2450
2400
2350
2300
2250

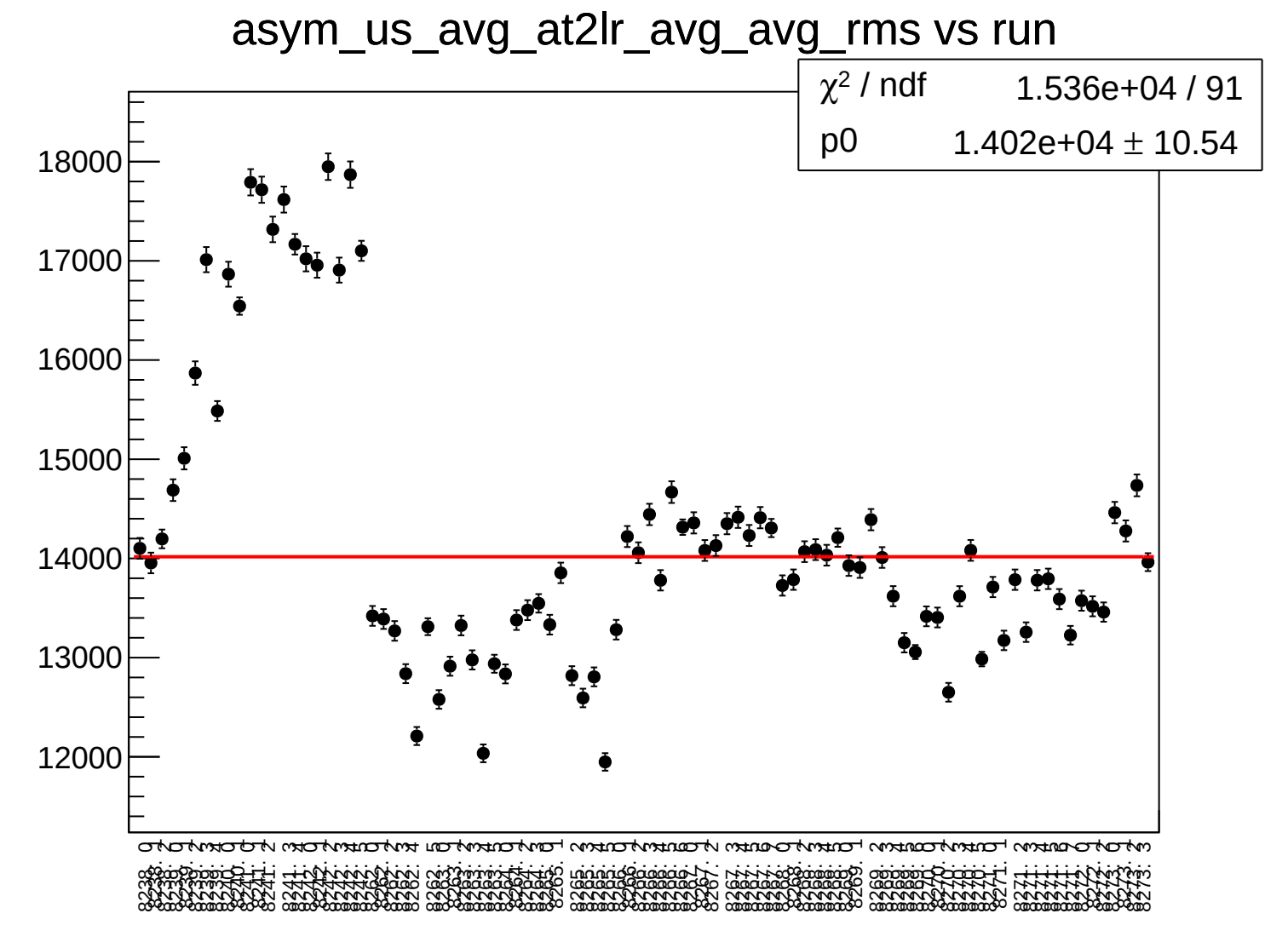

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.55 / 91
p0 3.061e+04 ± 1.492e+04
400
200
0
−200
−400
pull
Entries 92
Mean −495.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

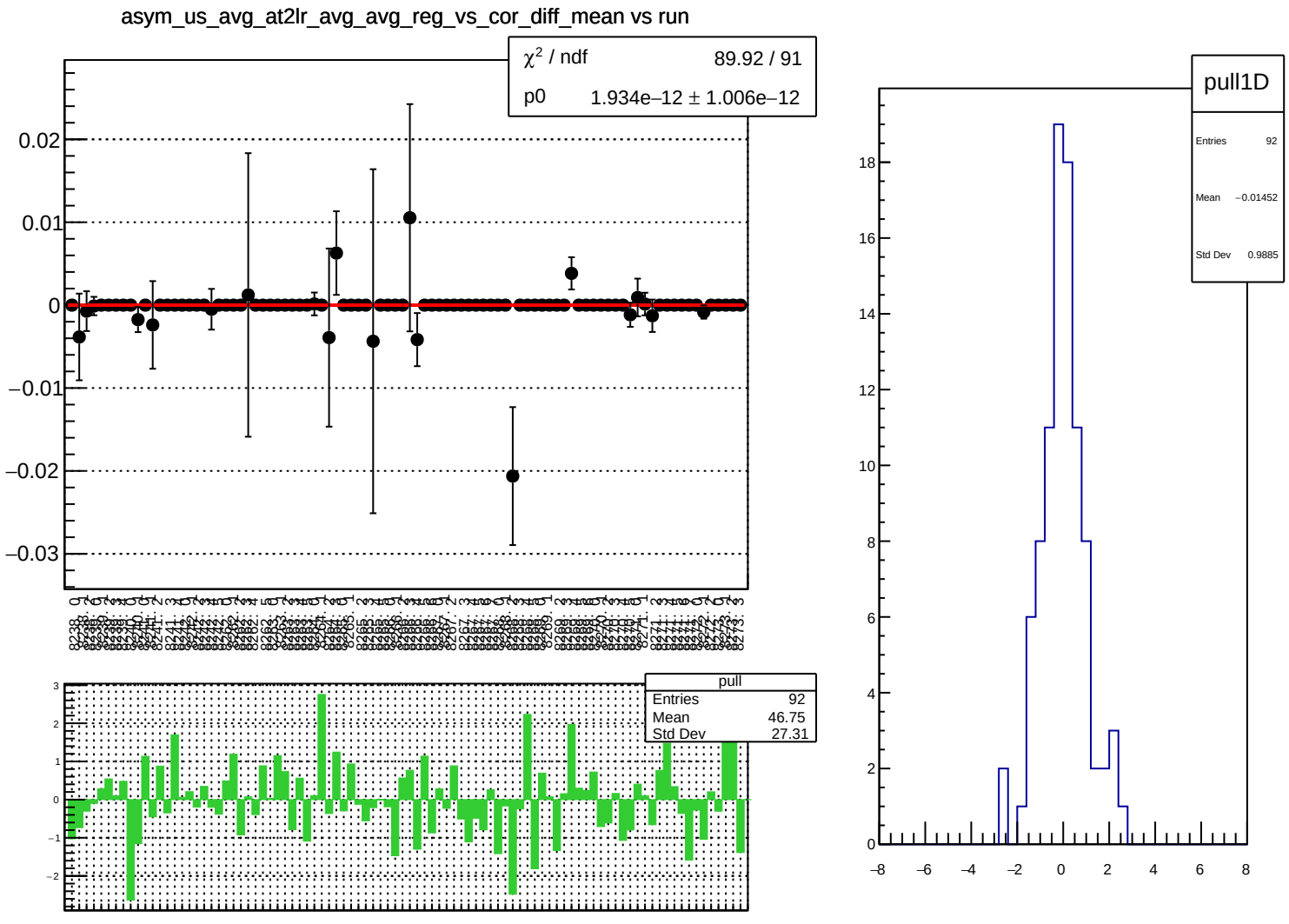

pull1D
Entries 92
Mean 0.006943
Std Dev 0.8632
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

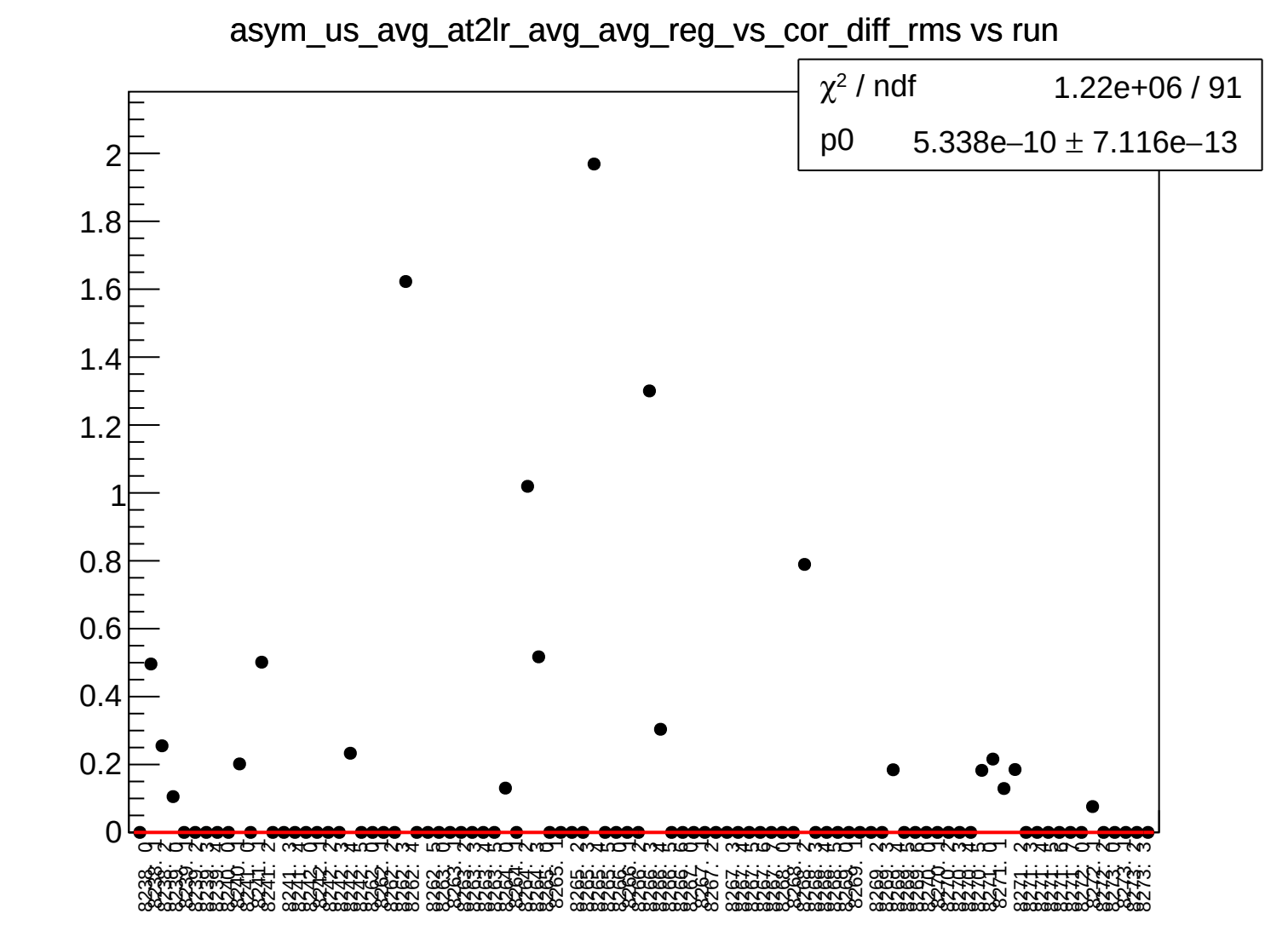

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.483e+04 / 91
p0 1.403e+04 ± 10.55
18000
17000
16000
15000
14000
13000
12000

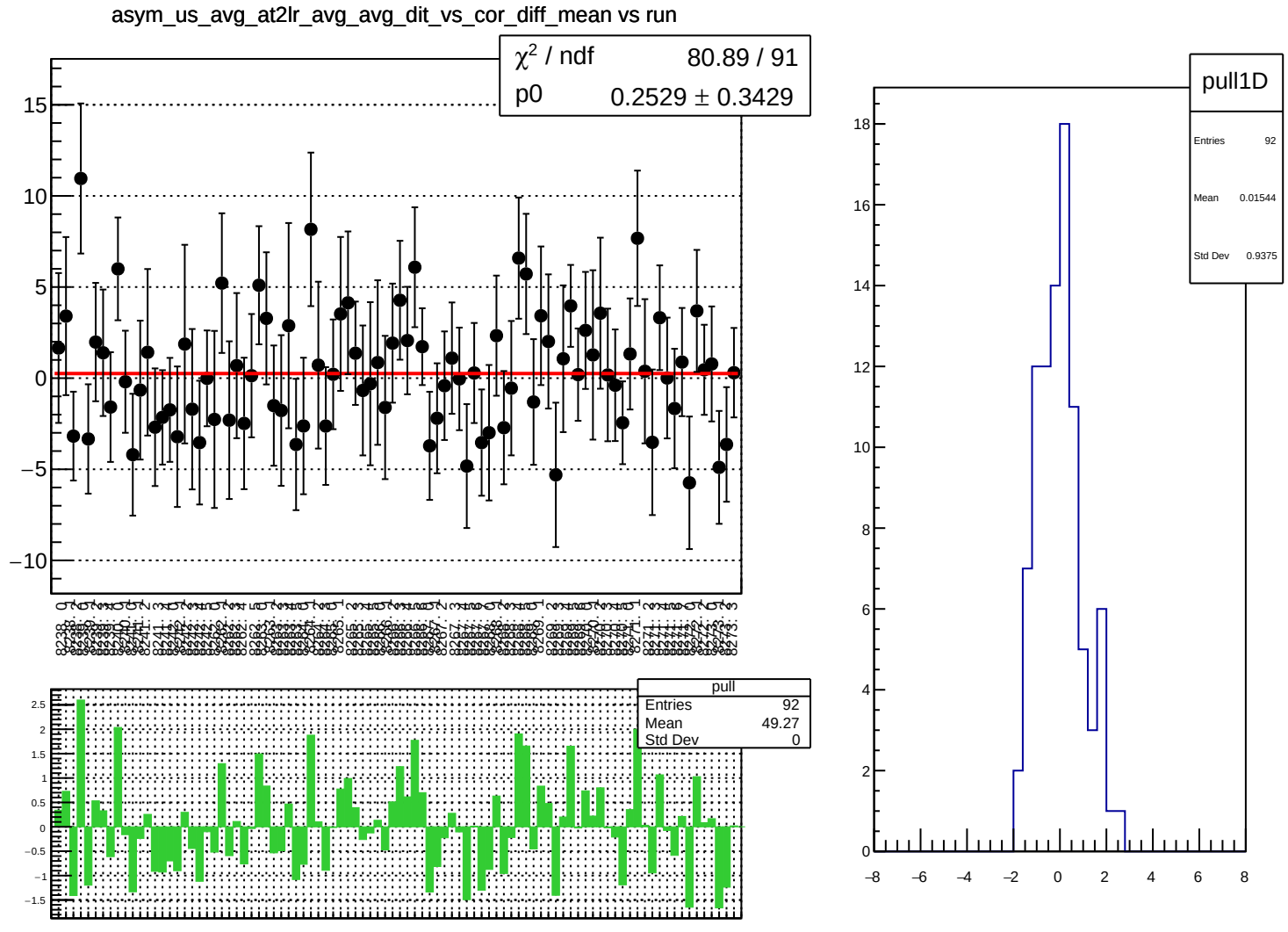

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 62.48 / 91
p0 −2.727e+04 ± 1.491e+04
400
200
0
−200
−400
pull
Entries 92
Mean −491.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

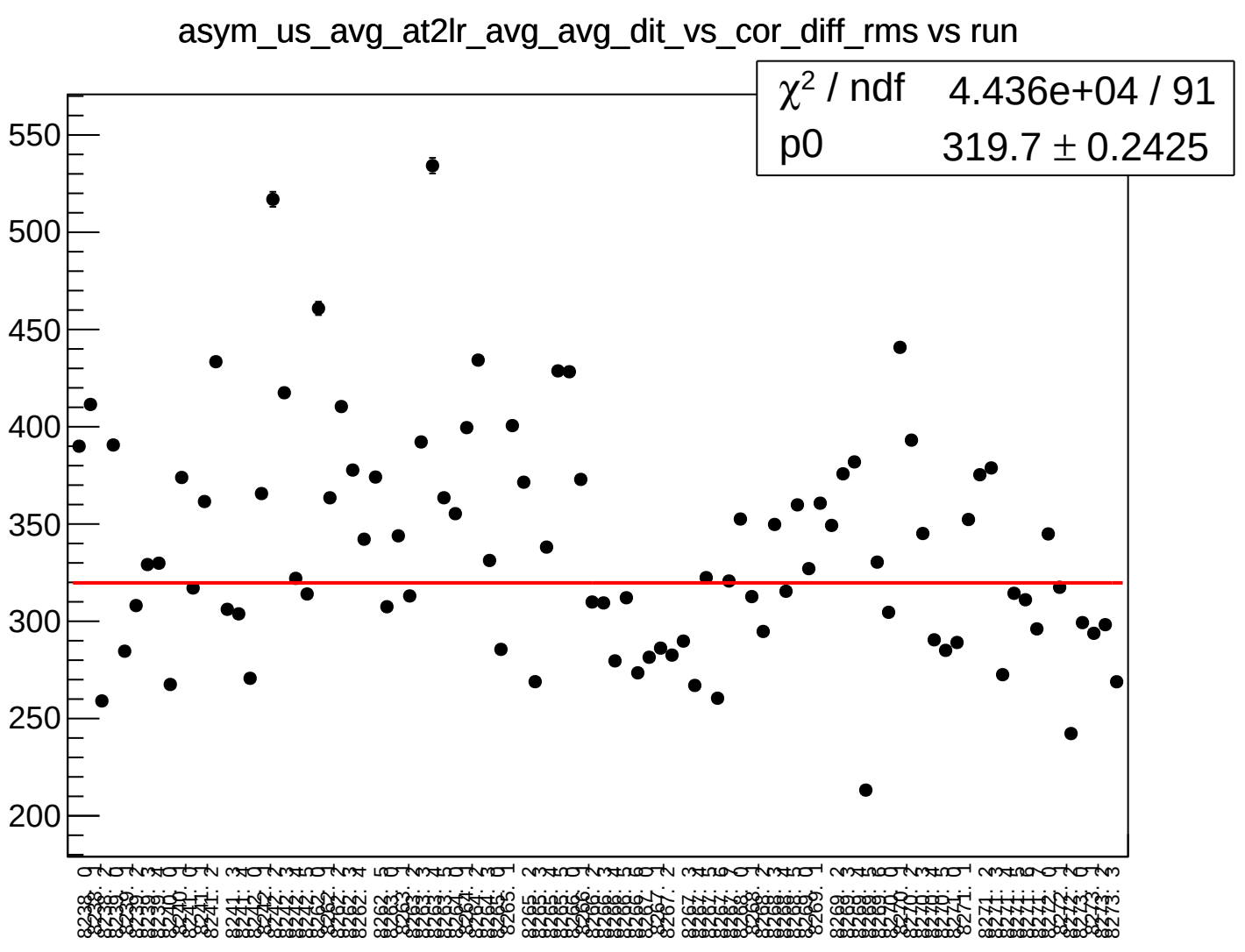

pull1D
Entries 92
Mean −0.007667
Std Dev 0.8241
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

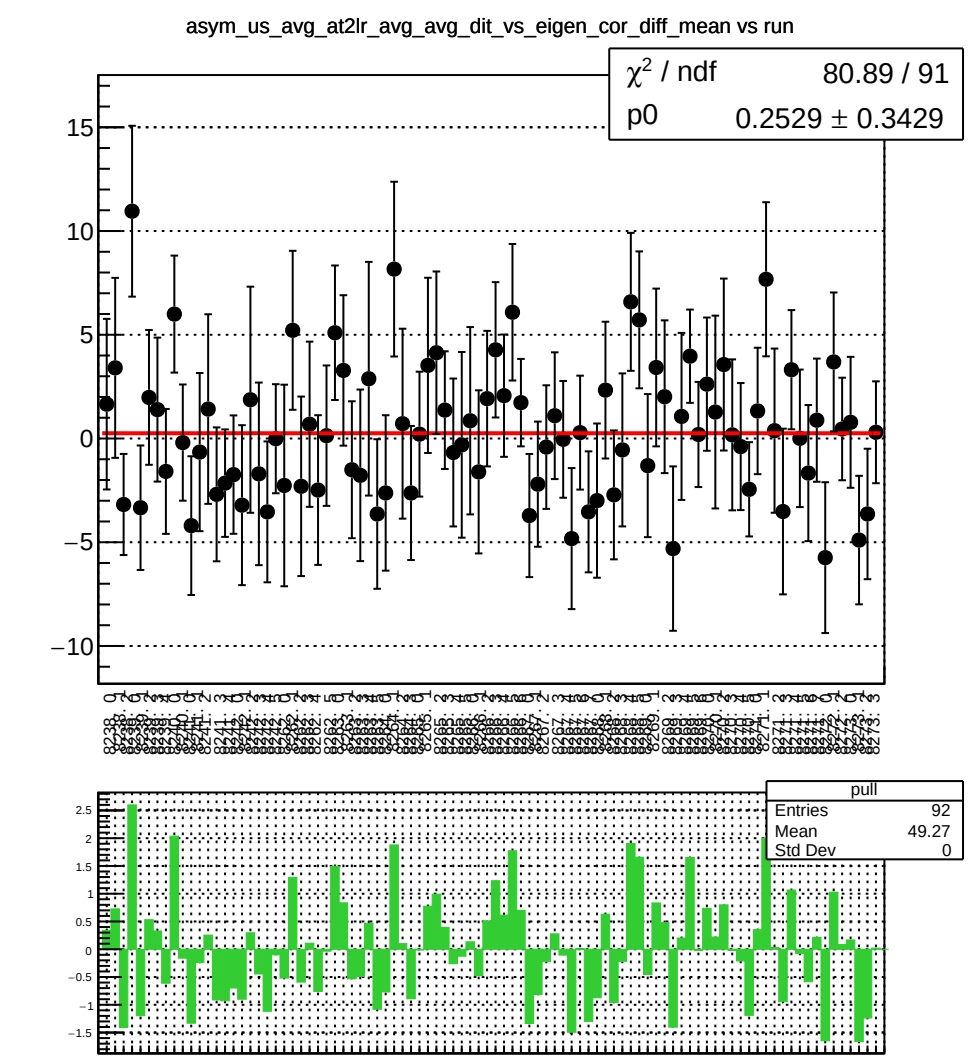

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.536e+04 / 91
p0 1.402e+04 ± 10.54
18000
17000
16000
15000
14000
13000
12000

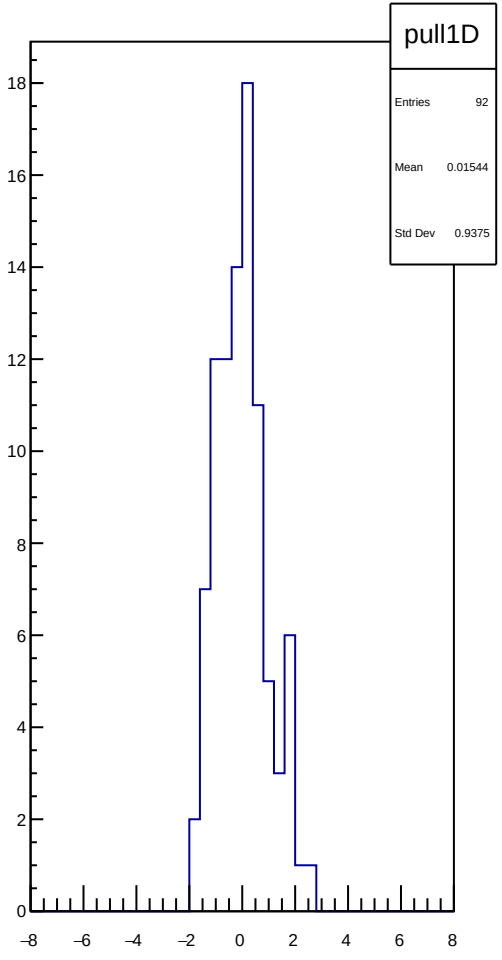

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.92 / 91
p0 1.934e−12 ± 1.006e−12
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean 46.75
Std Dev 27.31
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01452
Std Dev 0.9885
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

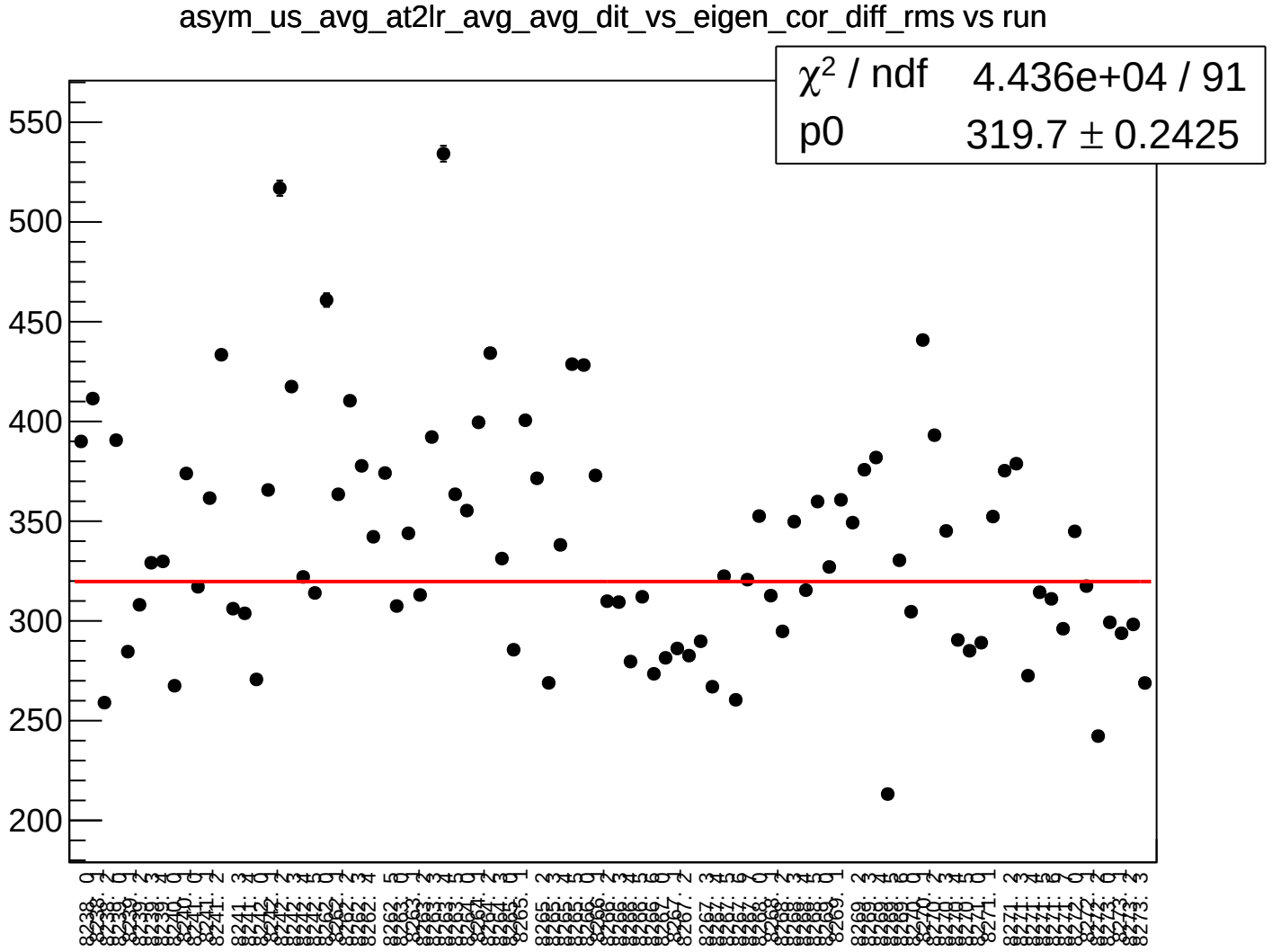

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.22e+06 / 91
p0 5.338e−10 ± 7.116e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

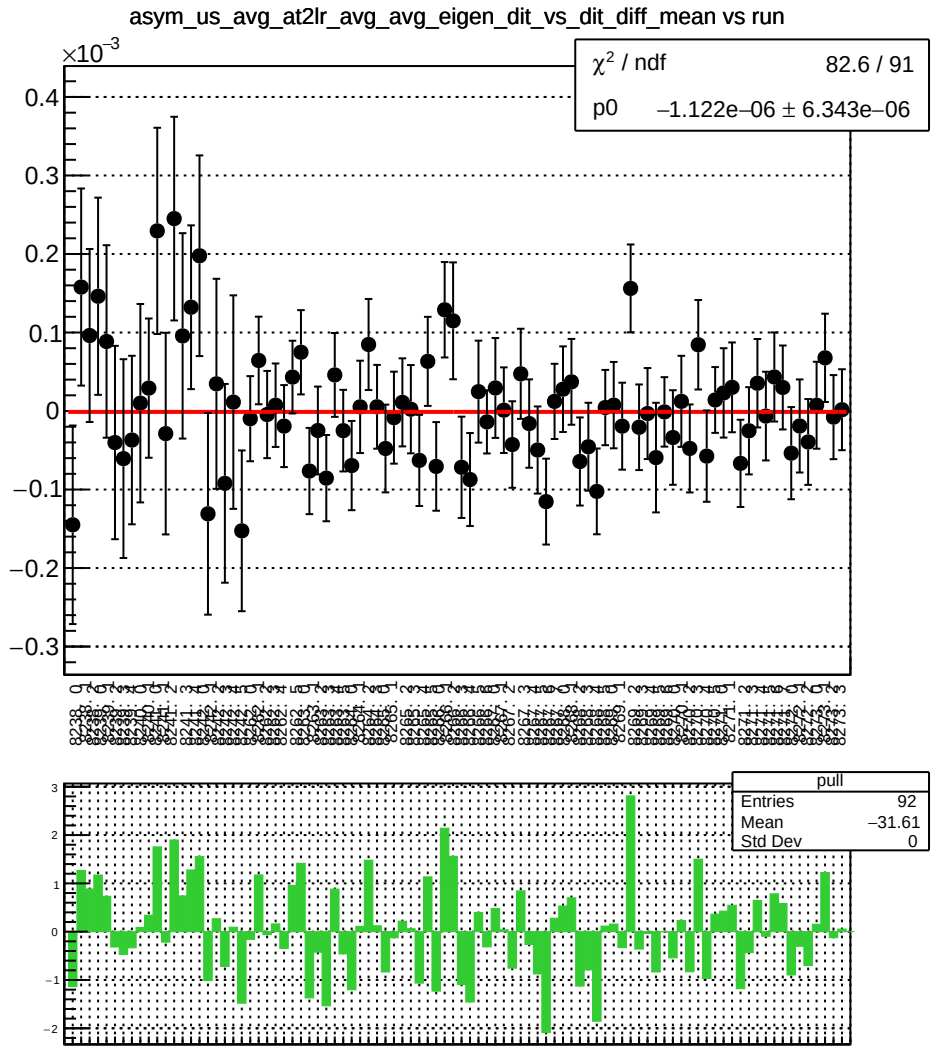

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.89 / 91
p0 0.2529 ± 0.3429
pull
Entries 92
Mean 49.27
Std Dev 0
pull1D
Entries 92
Mean 0.01544
Std Dev 0.9375

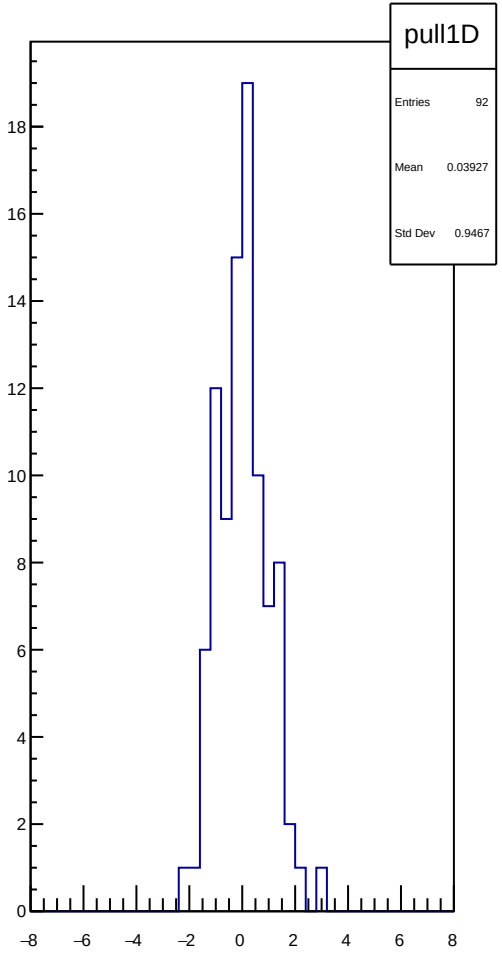

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.436e+04 / 91
p0 319.7 ± 0.2425
550
500
450
400
350
300
250
200

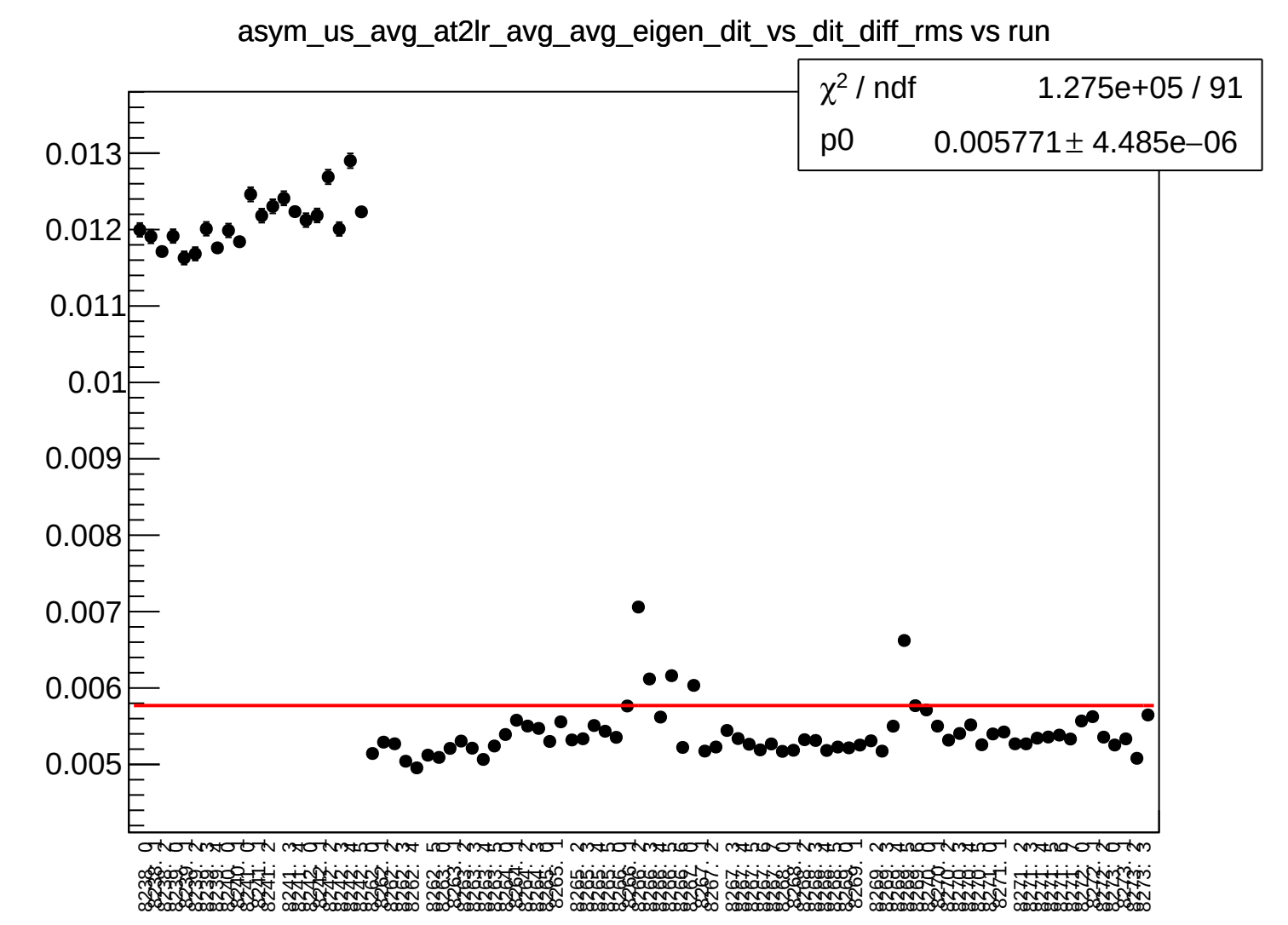

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.89 / 91
p0 0.2529 ± 0.3429
pull
Entries 92
Mean 49.27
Std Dev 0

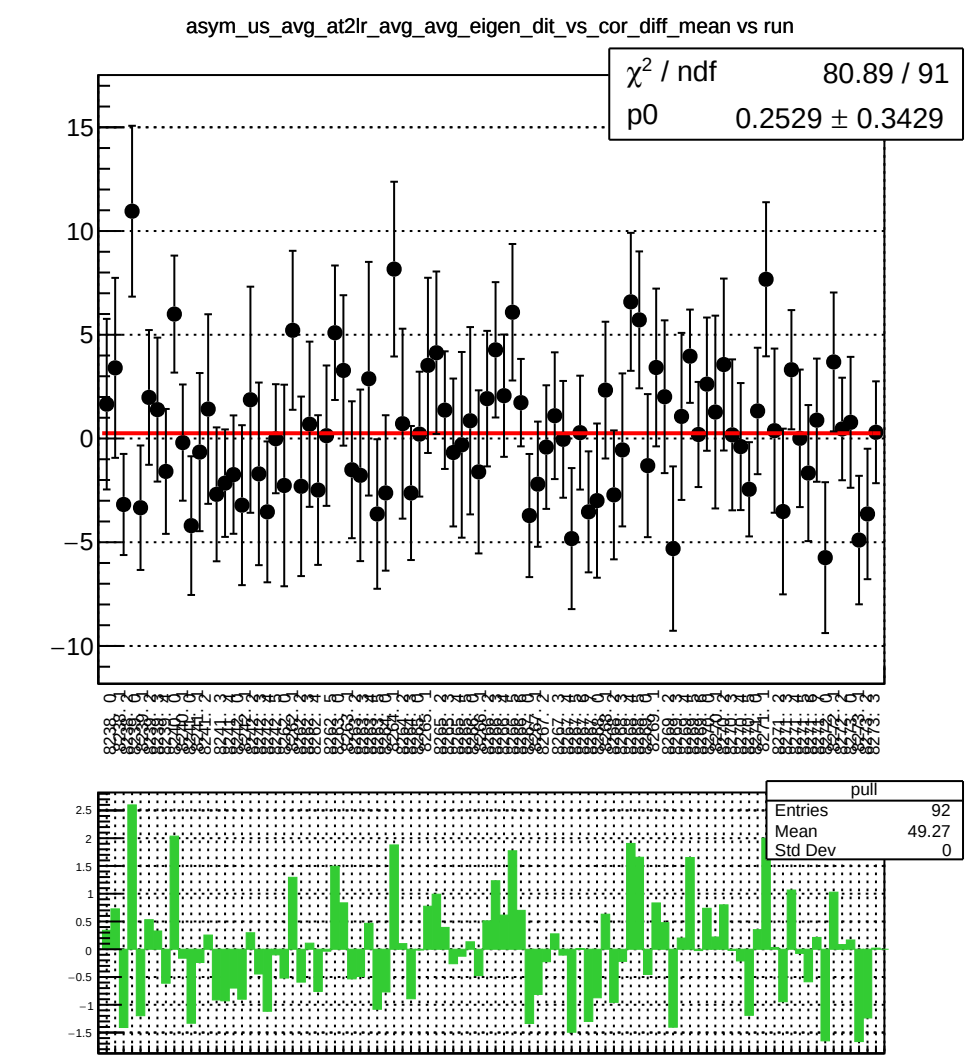

pull1D
Entries 92
Mean 0.01544
Std Dev 0.9375

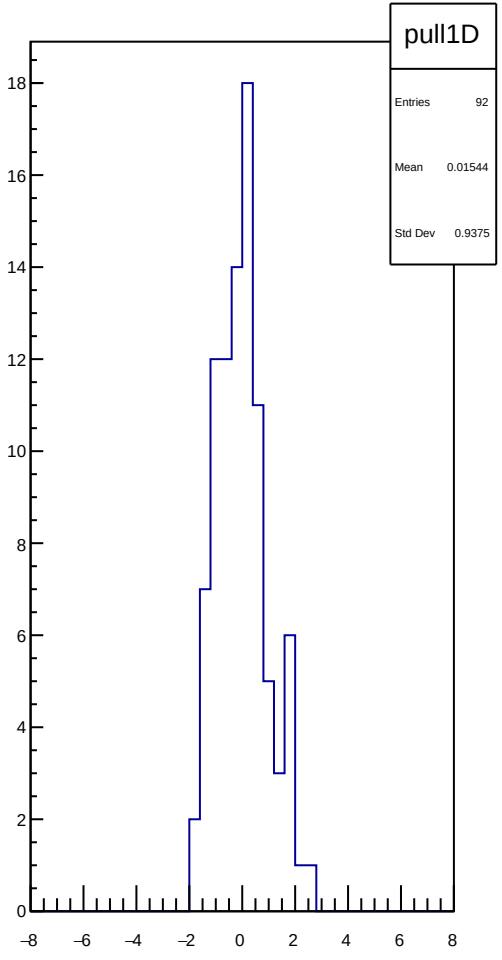

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.436e+04 / 91
p0 319.7 ± 0.2425
550
500
450
400
350
300
250
200

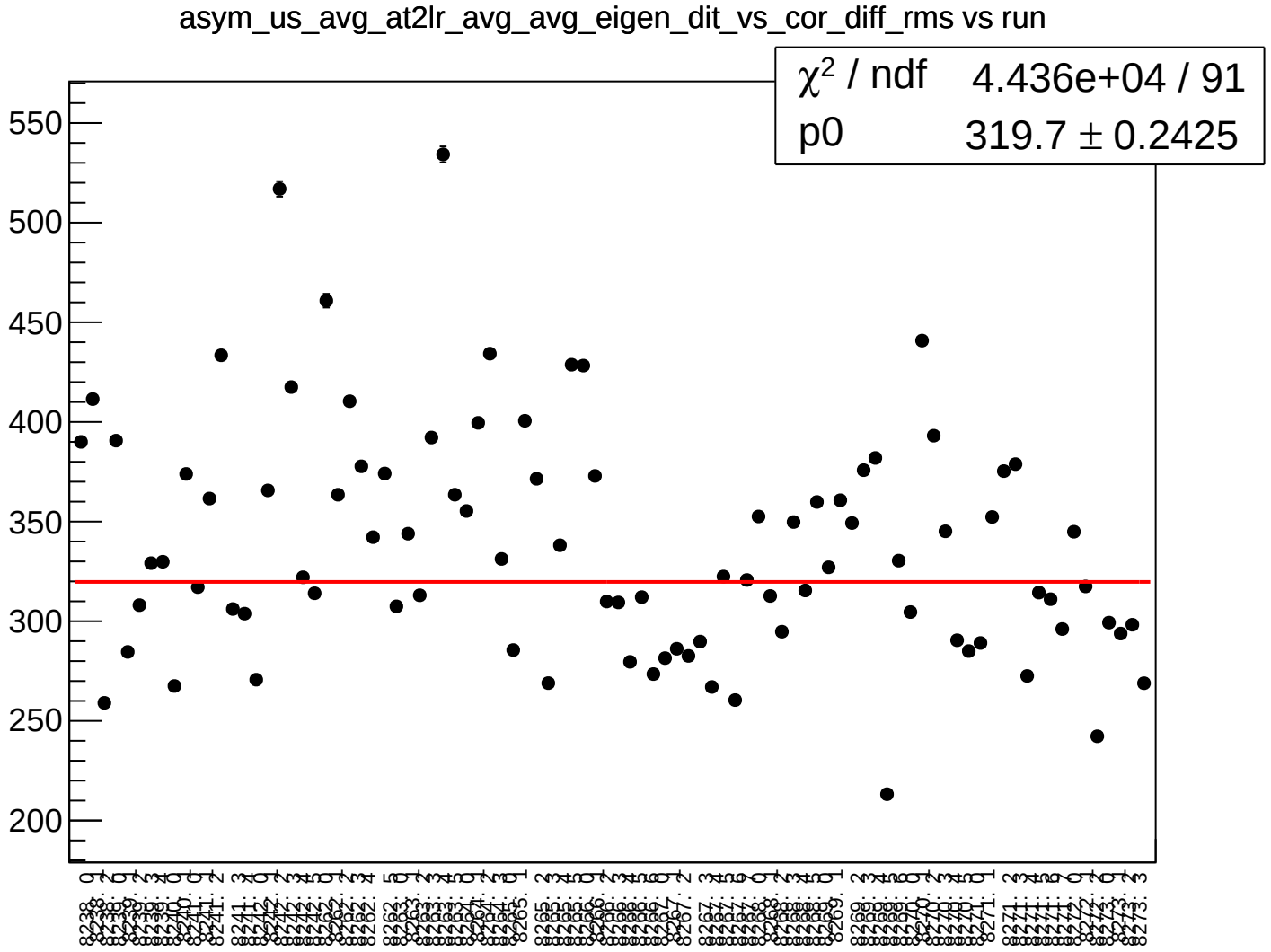

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 82.6 / 91
p0 −1.122e−06 ± 6.343e−06
pull
Entries 92
Mean −31.61
Std Dev 0

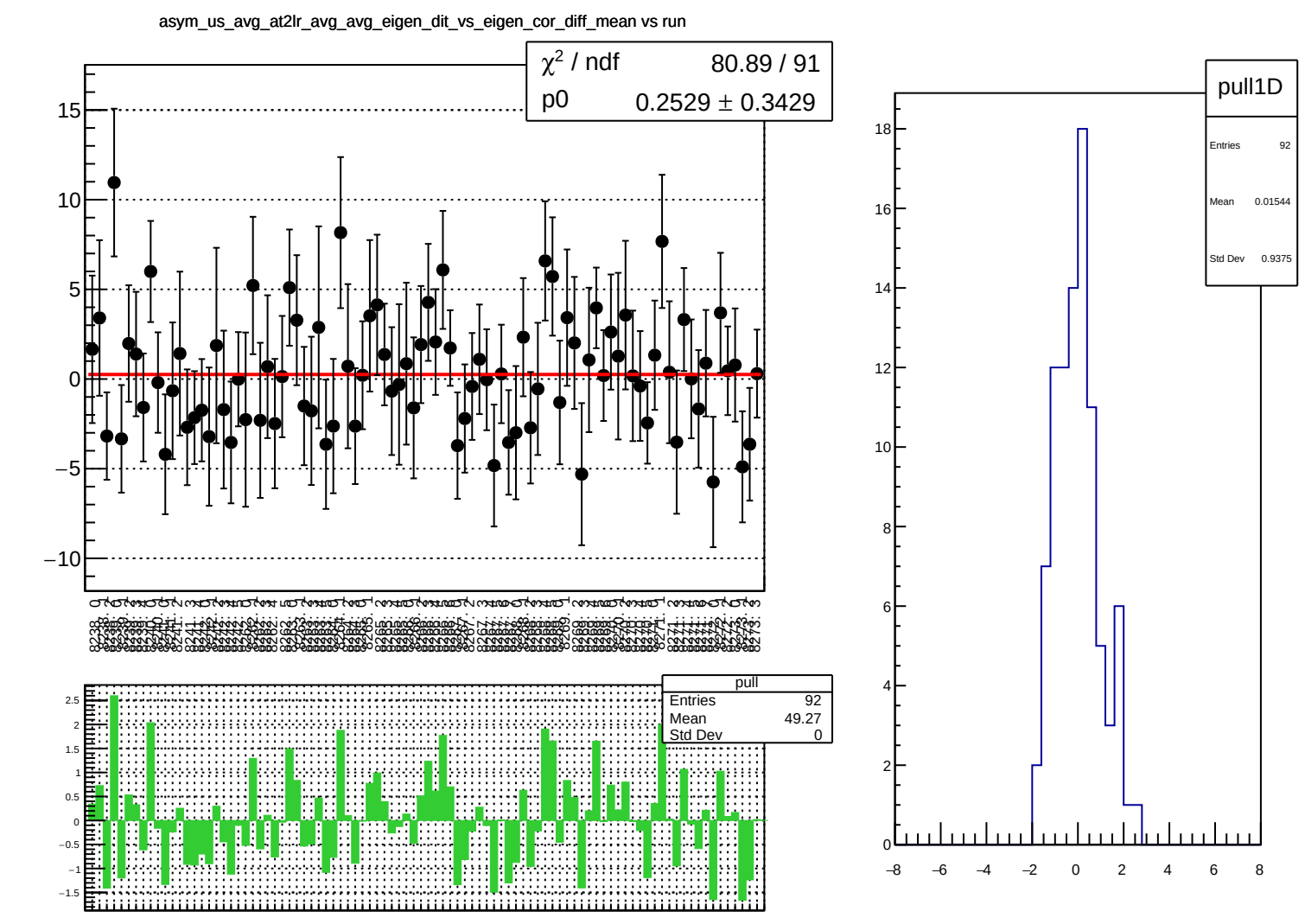

pull1D
Entries 92
Mean 0.03927
Std Dev 0.9467

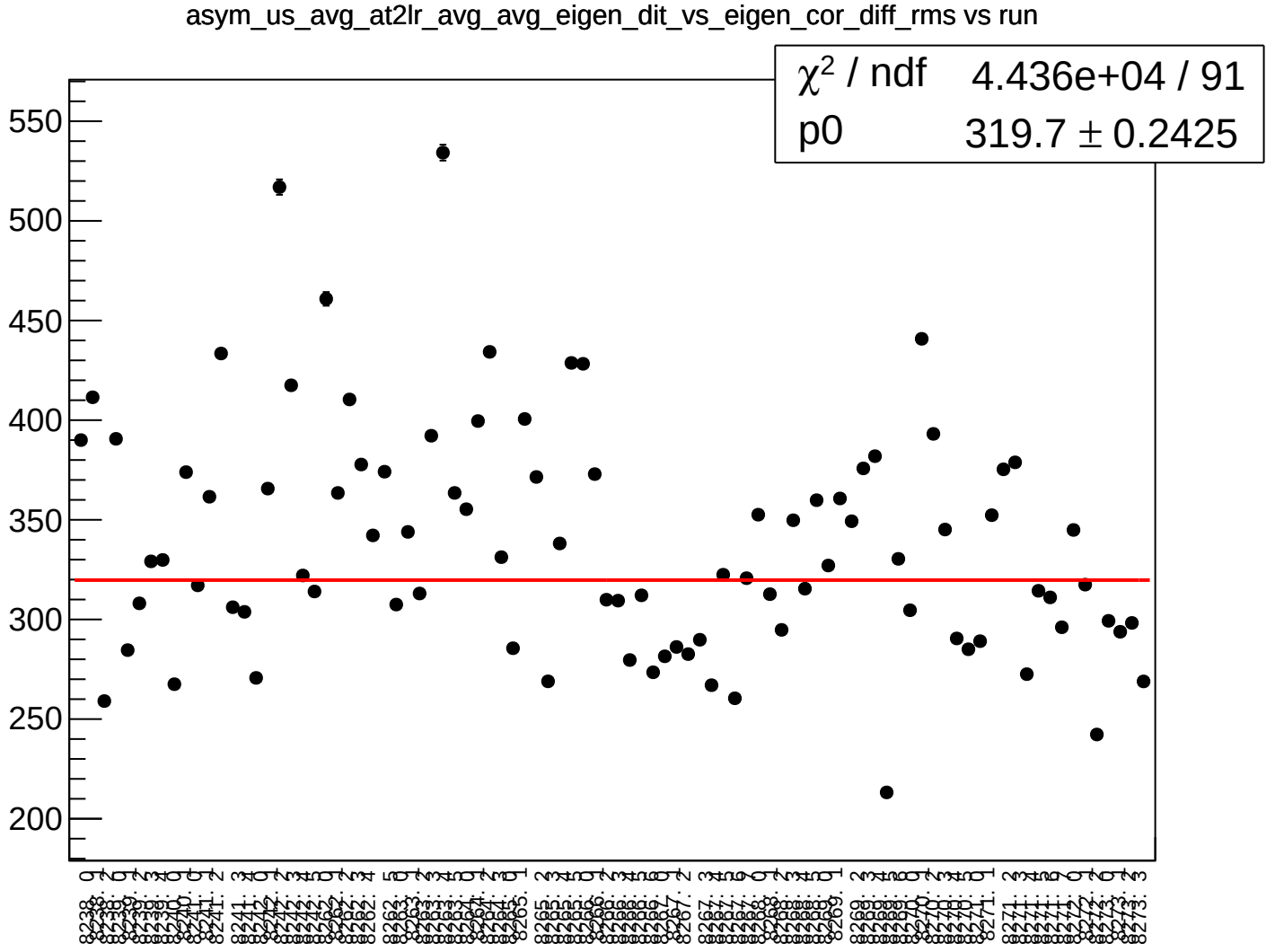

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.275e+05 / 91
p0 0.005771 ± 4.485e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

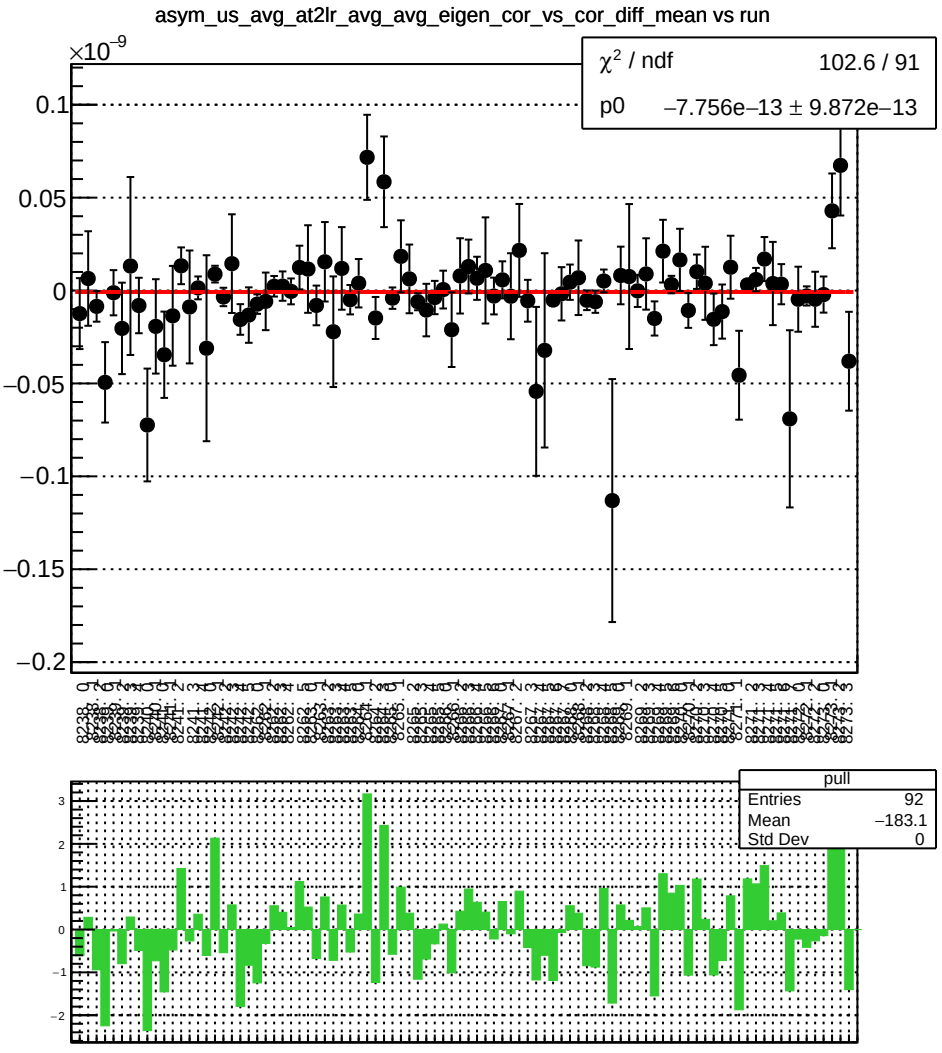

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.89 / 91
p0 0.2529 ± 0.3429
pull
Entries 92
Mean 49.27
Std Dev 0

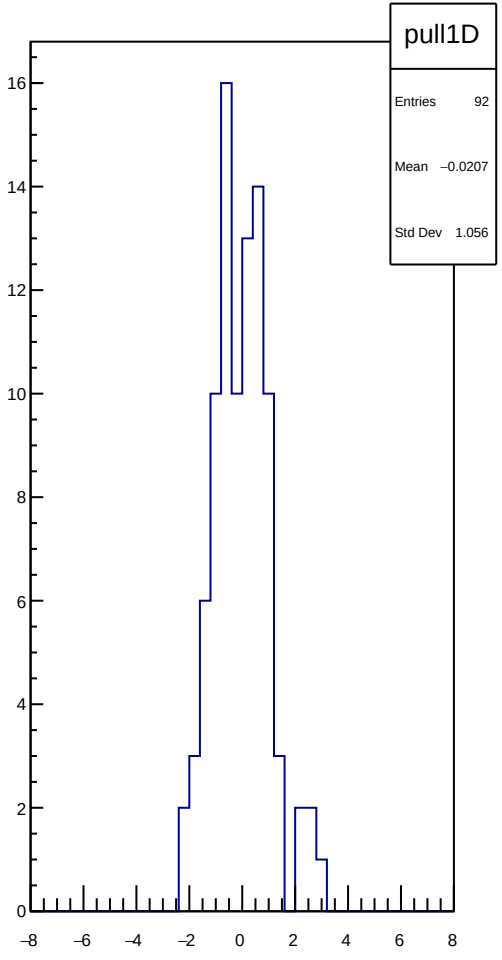

pull1D
Entries 92
Mean 0.01544
Std Dev 0.9375

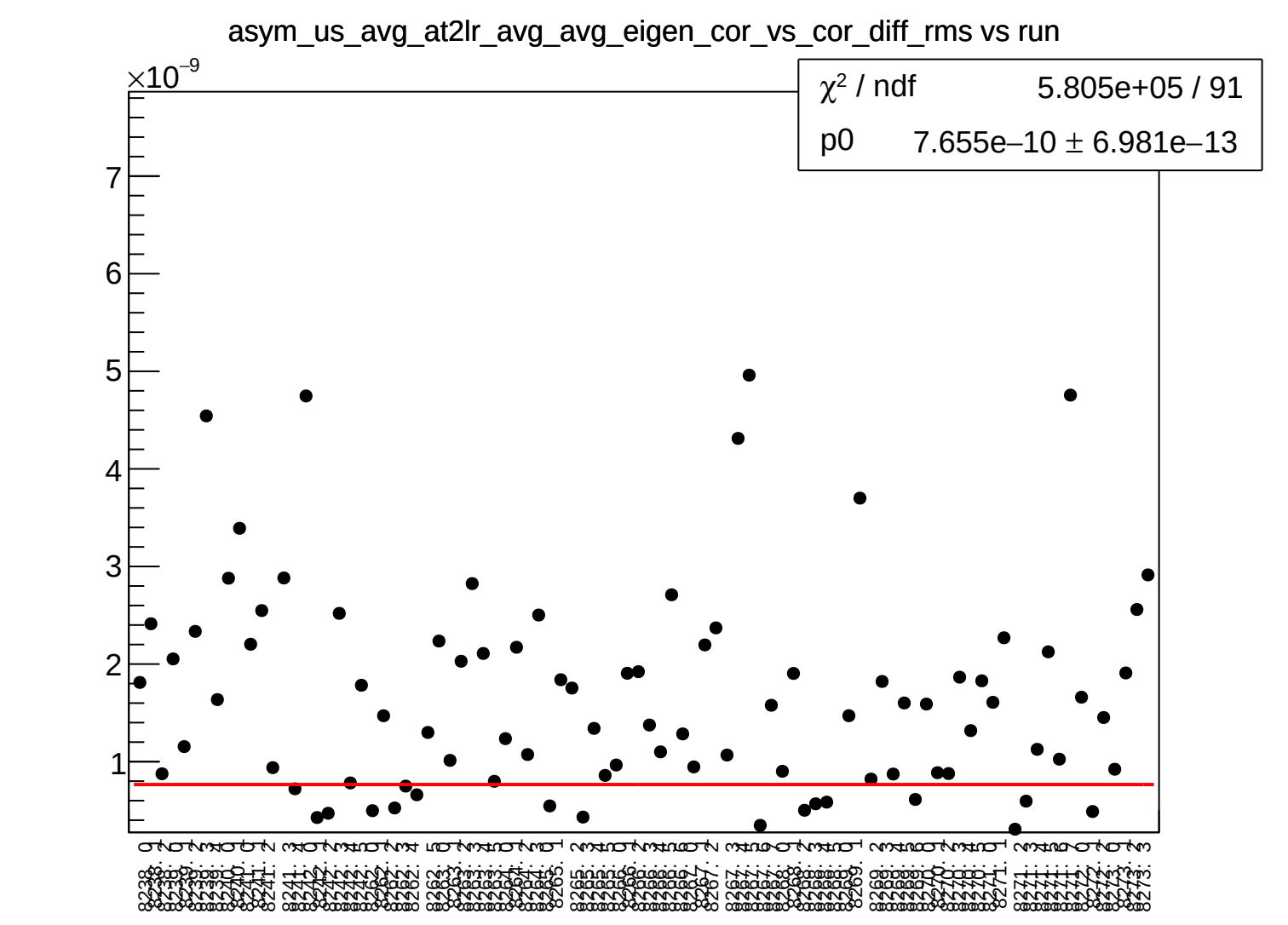

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.436e+04 / 91
p0 319.7 ± 0.2425
550
500
450
400
350
300
250
200

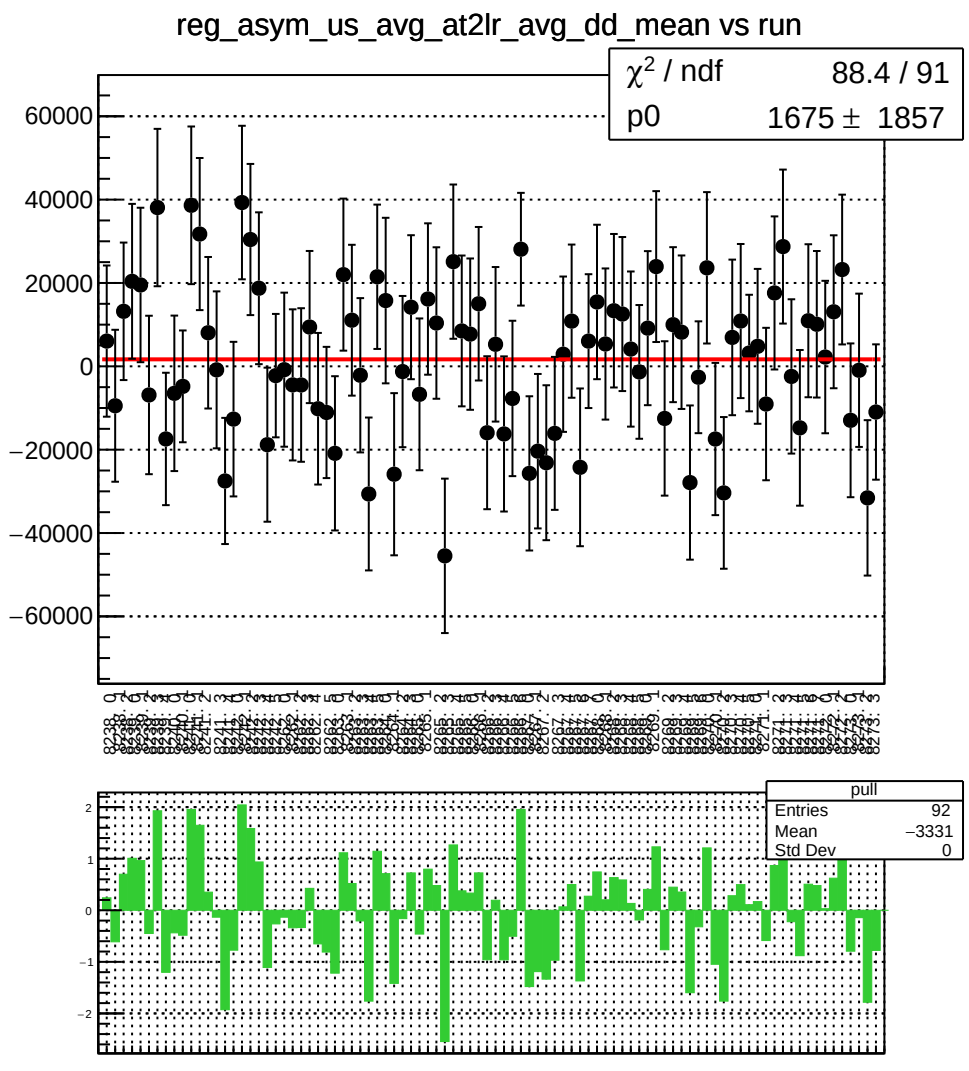

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.89 / 91
p0 0.2529 ± 0.3429
pull
Entries 92
Mean 49.27
Std Dev 0
pull1D
Entries 92
Mean 0.01544
Std Dev 0.9375

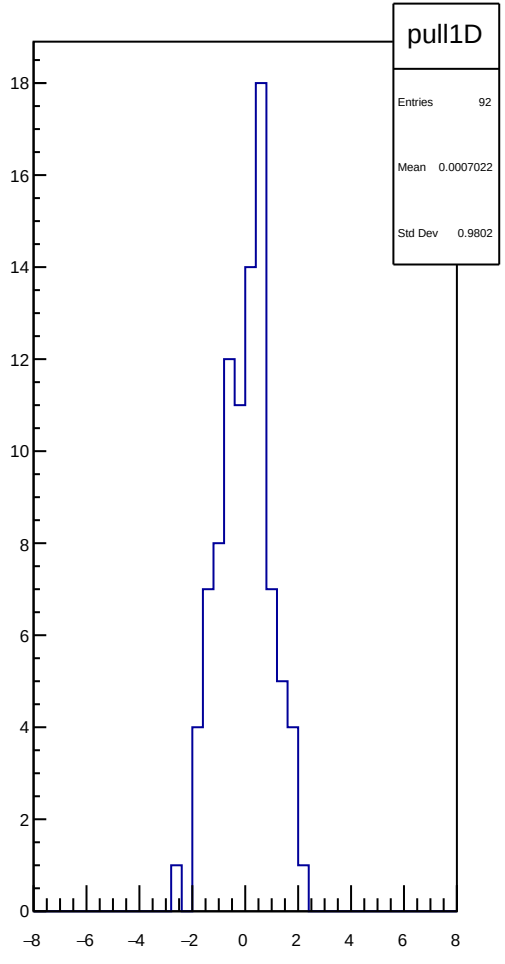

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.436e+04 / 91
p0 319.7 ± 0.2425
550
500
450
400
350
300
250
200

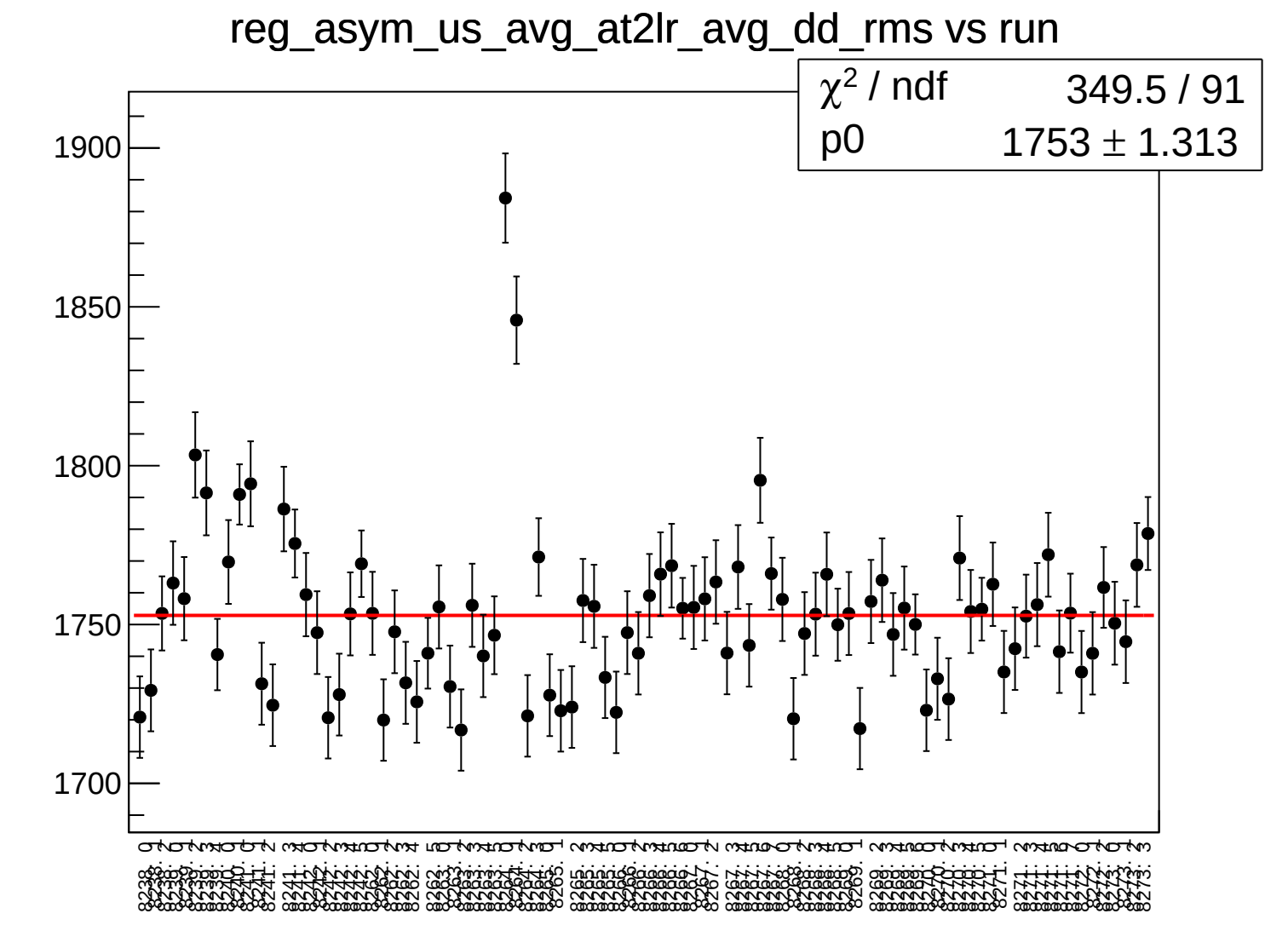

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 102.6 / 91
p0 −7.756e−13 ± 9.872e−13
pull
Entries 92
Mean −183.1
Std Dev 0

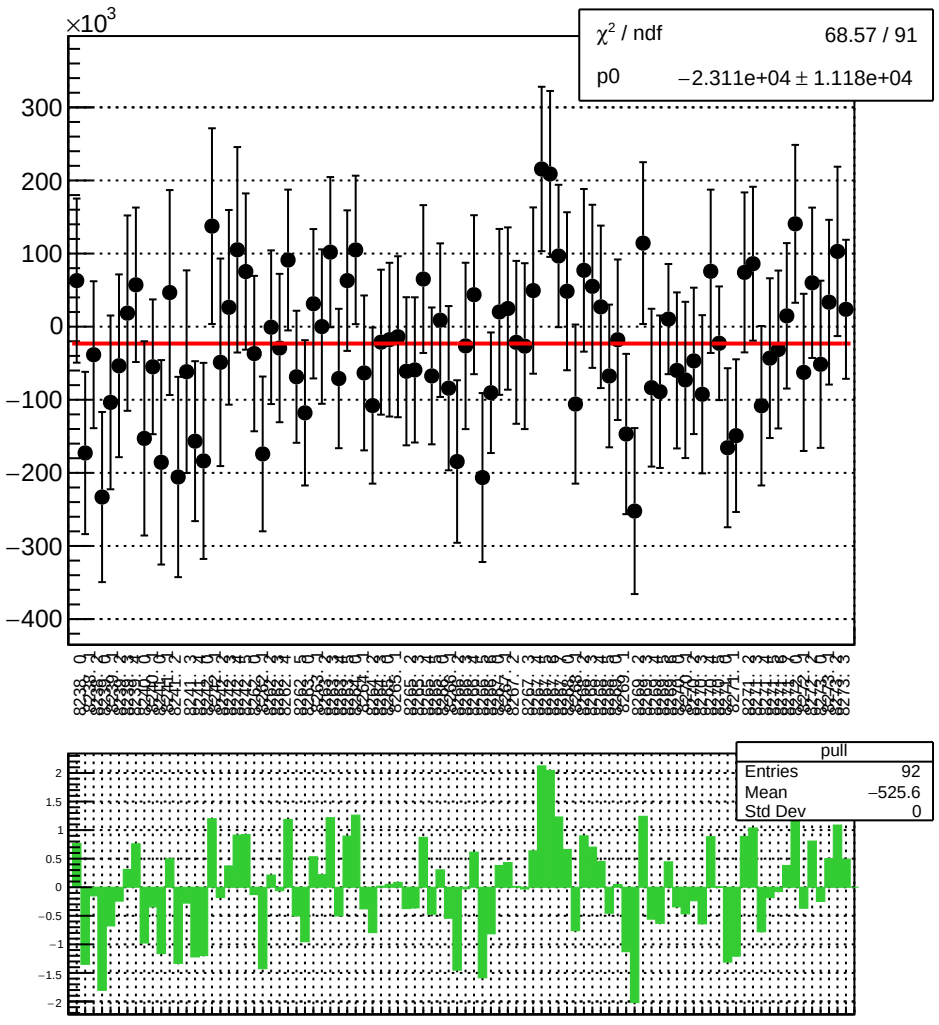

pull1D
Entries 92
Mean −0.0207
Std Dev 1.056

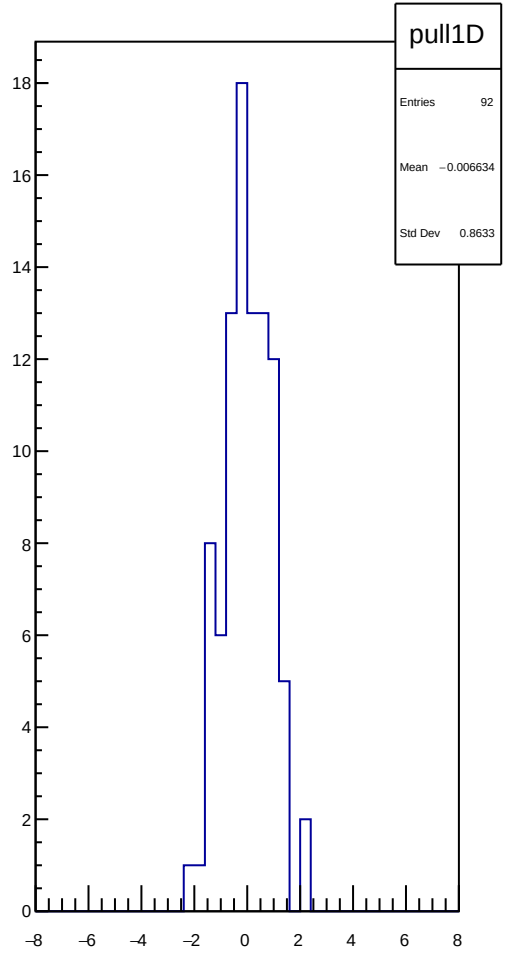

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.805e+05 / 91
p0 7.655e−10 ± 6.981e−13
7
6
5
4
3
2
1

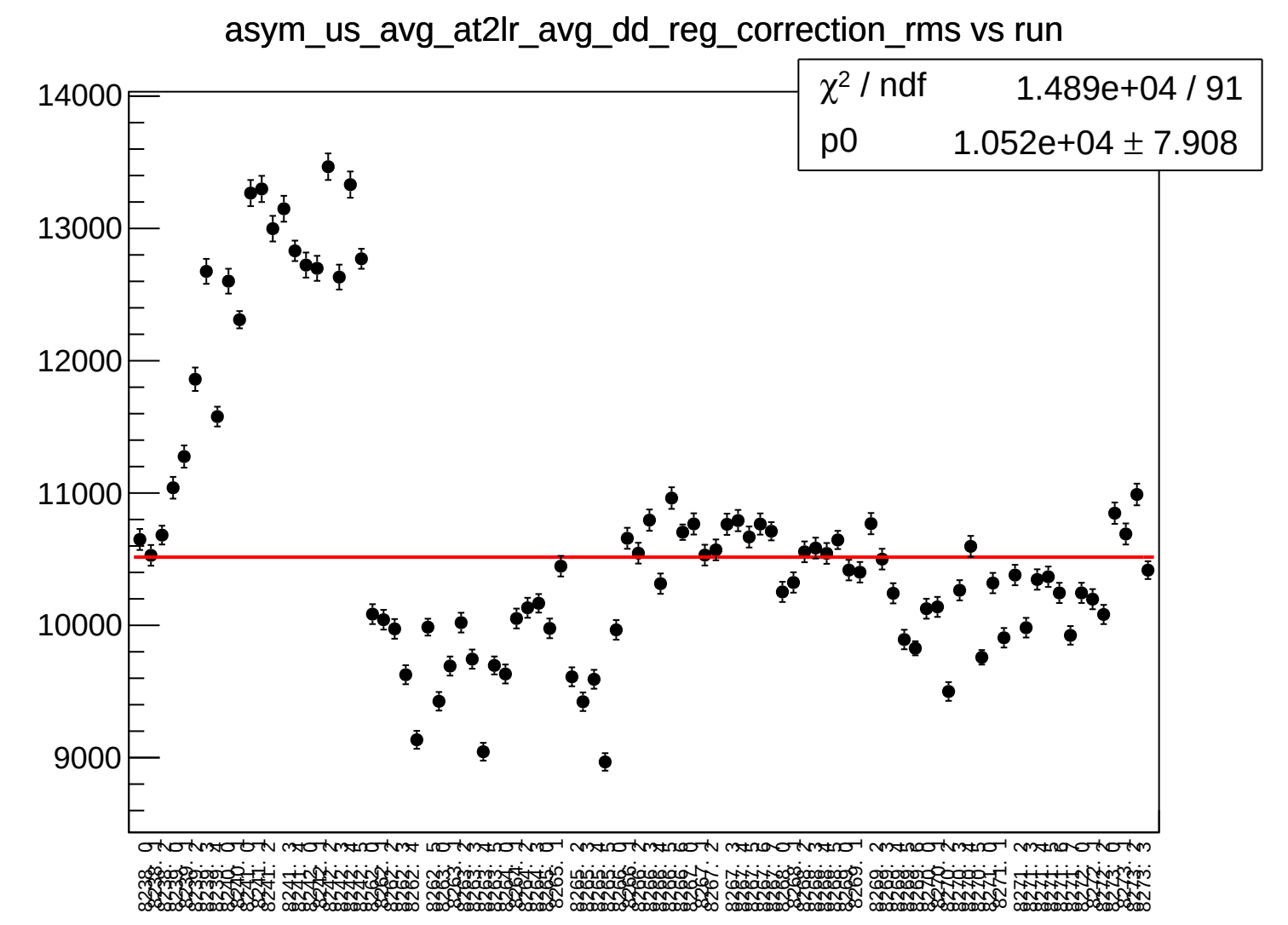

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 88.4 / 91
p0 1675 ± 1857
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −3331
Std Dev 0
2
1
0
−1
−2

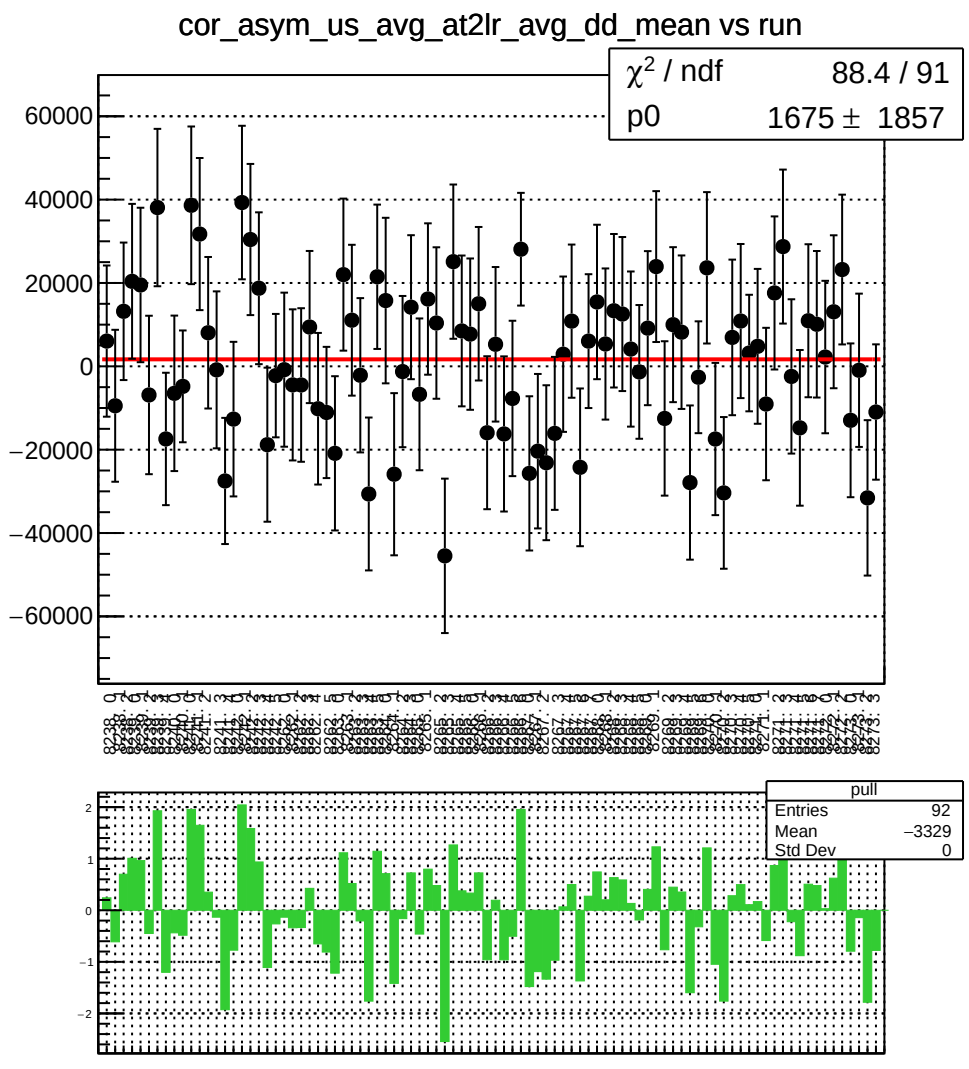

pull1D
Entries 92
Mean 0.0007022
Std Dev 0.9802
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

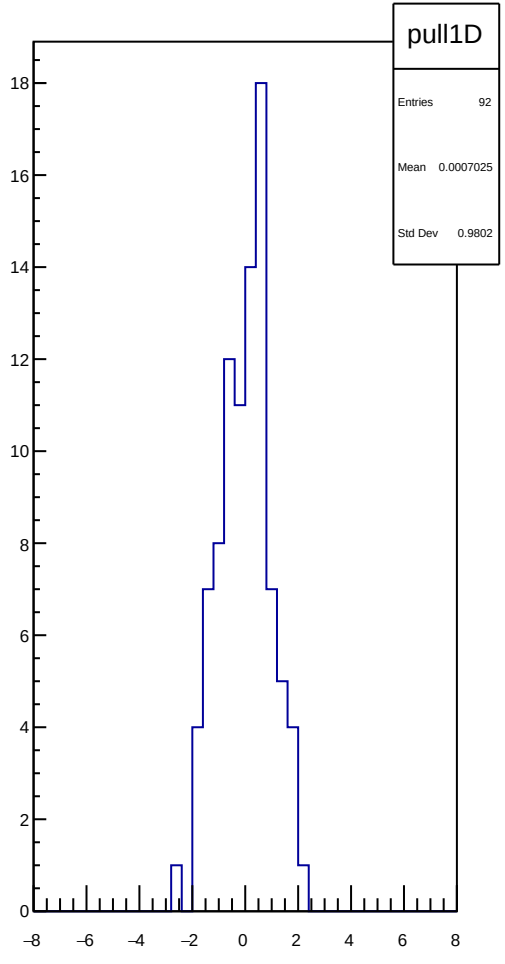

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 349.5 / 91
p0 1753 ± 1.313
1900
1850
1800
1750
1700

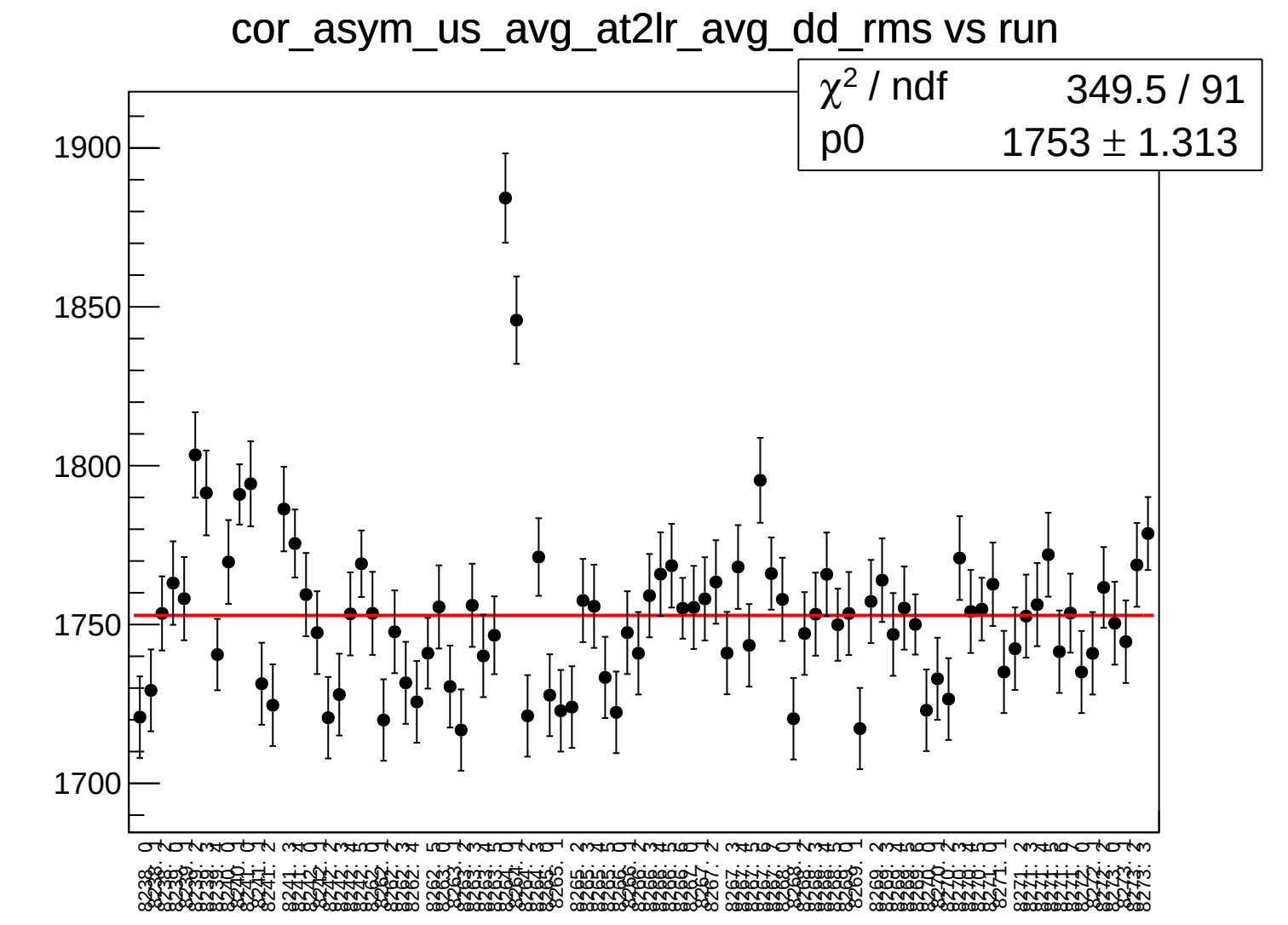

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 68.57 / 91
p0 −2.311e+04 ± 1.118e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean −525.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

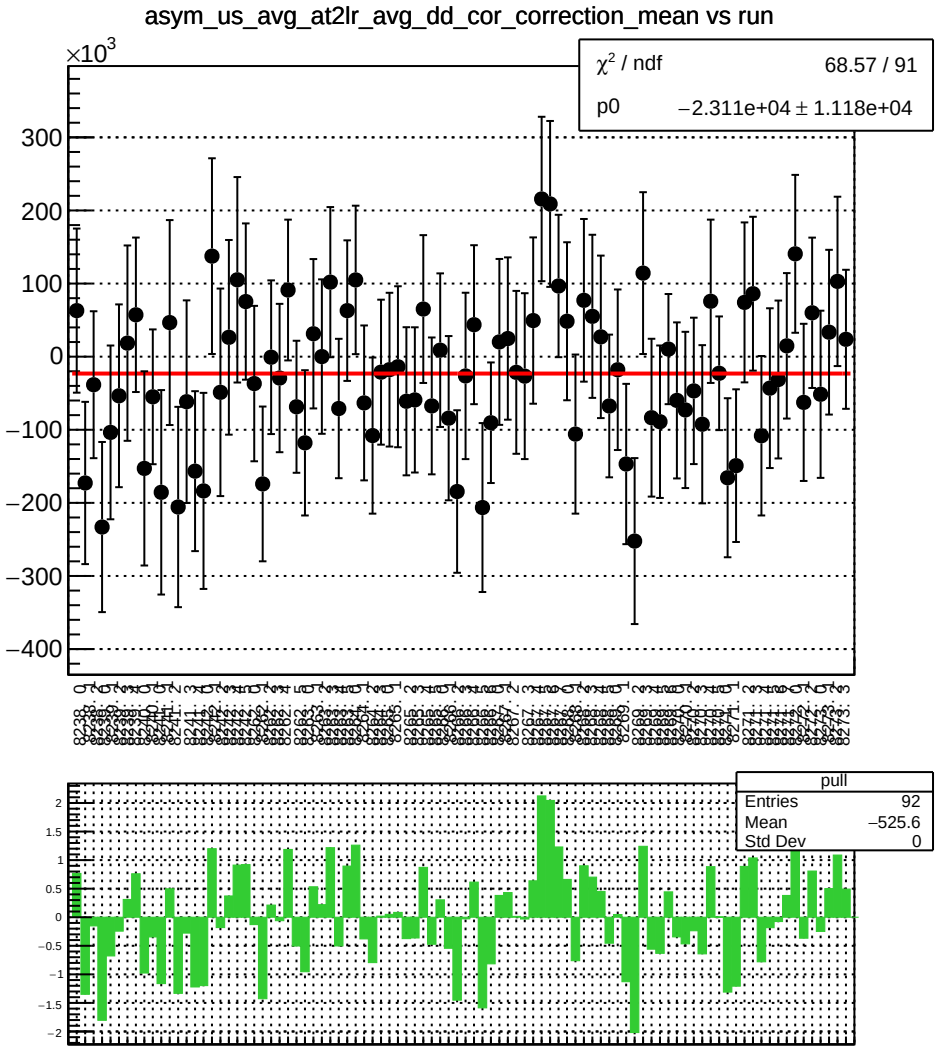

pull1D
Entries 92
Mean −0.006634
Std Dev 0.8633
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

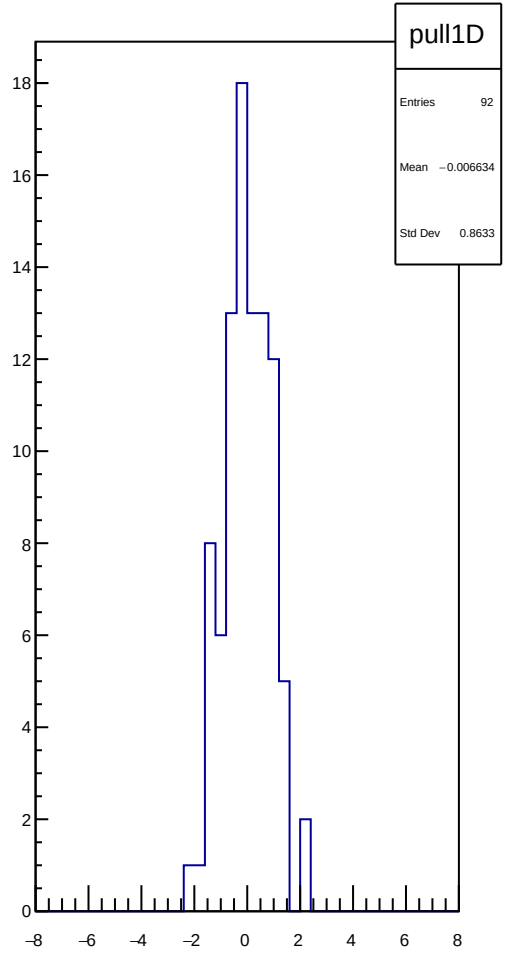

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.489e+04 / 91
p0 1.052e+04 ± 7.908
14000
13000
12000
11000
10000
9000

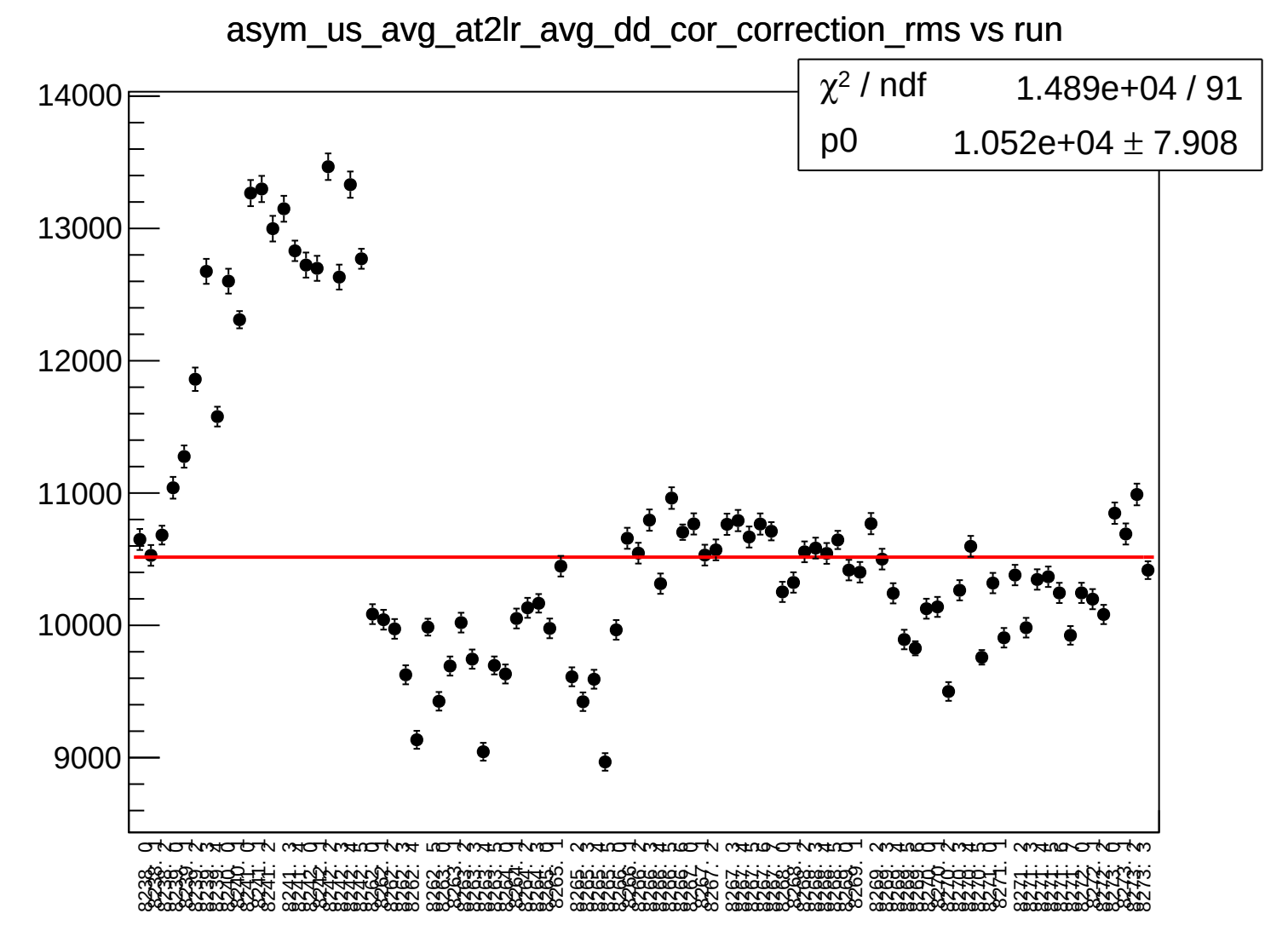

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 88.4 / 91
p0 1675 ± 1857
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −3329
Std Dev 0
2
1
0
−1
−2

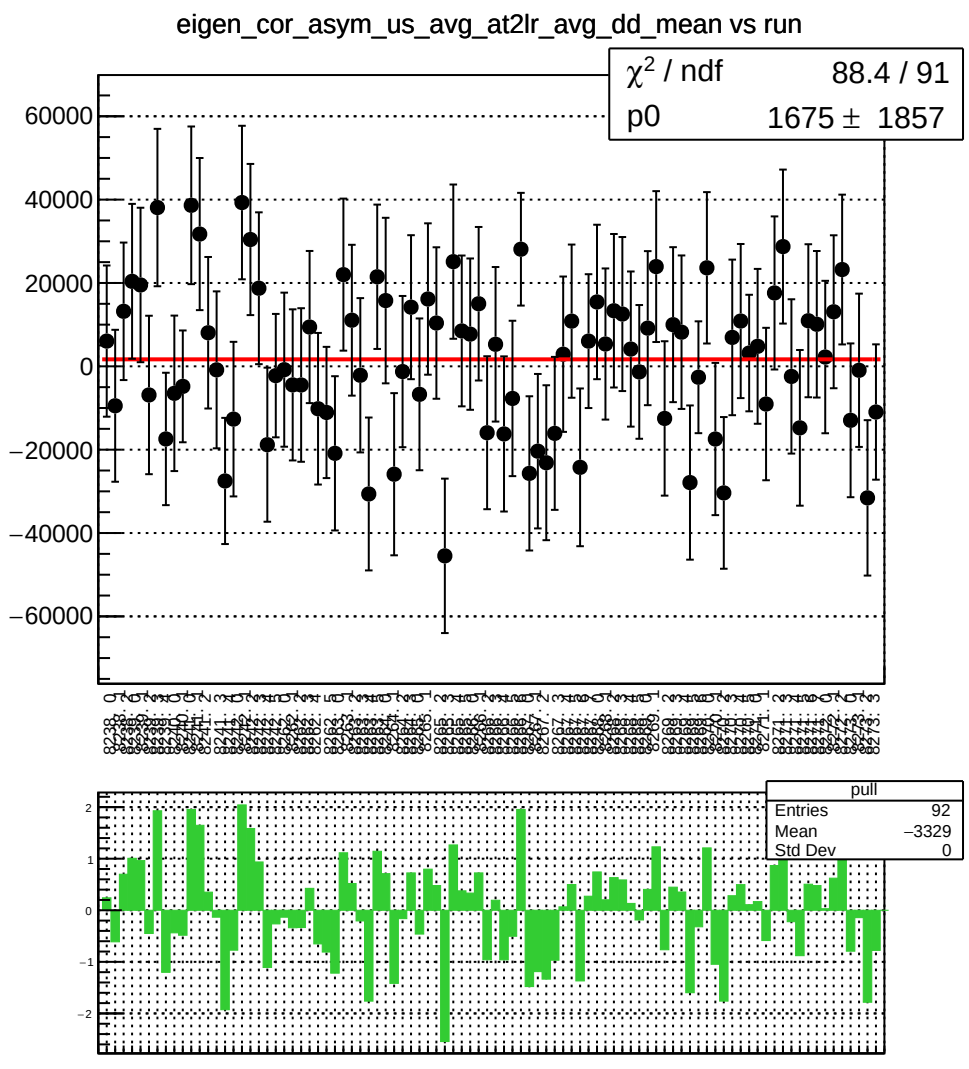

pull1D
Entries 92
Mean 0.0007025
Std Dev 0.9802
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

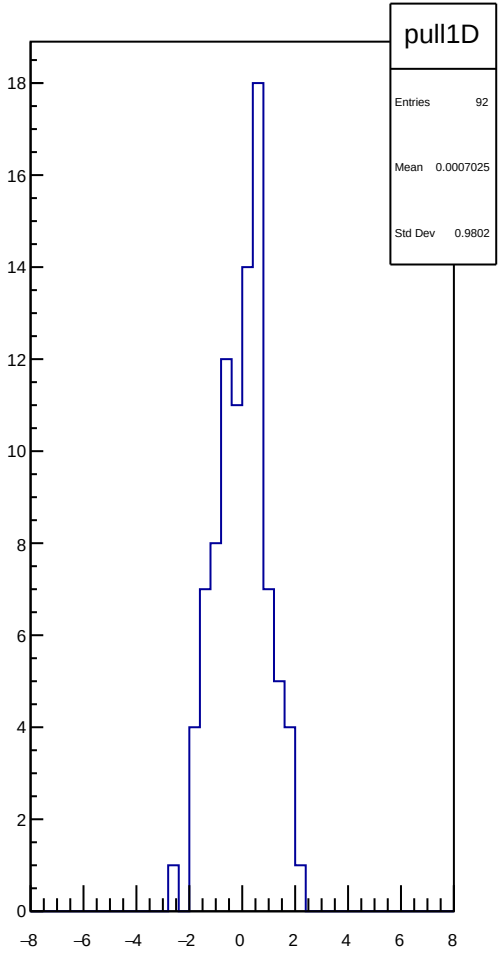

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 349.5 / 91
p0 1753 ± 1.313
1900
1850
1800
1750
1700

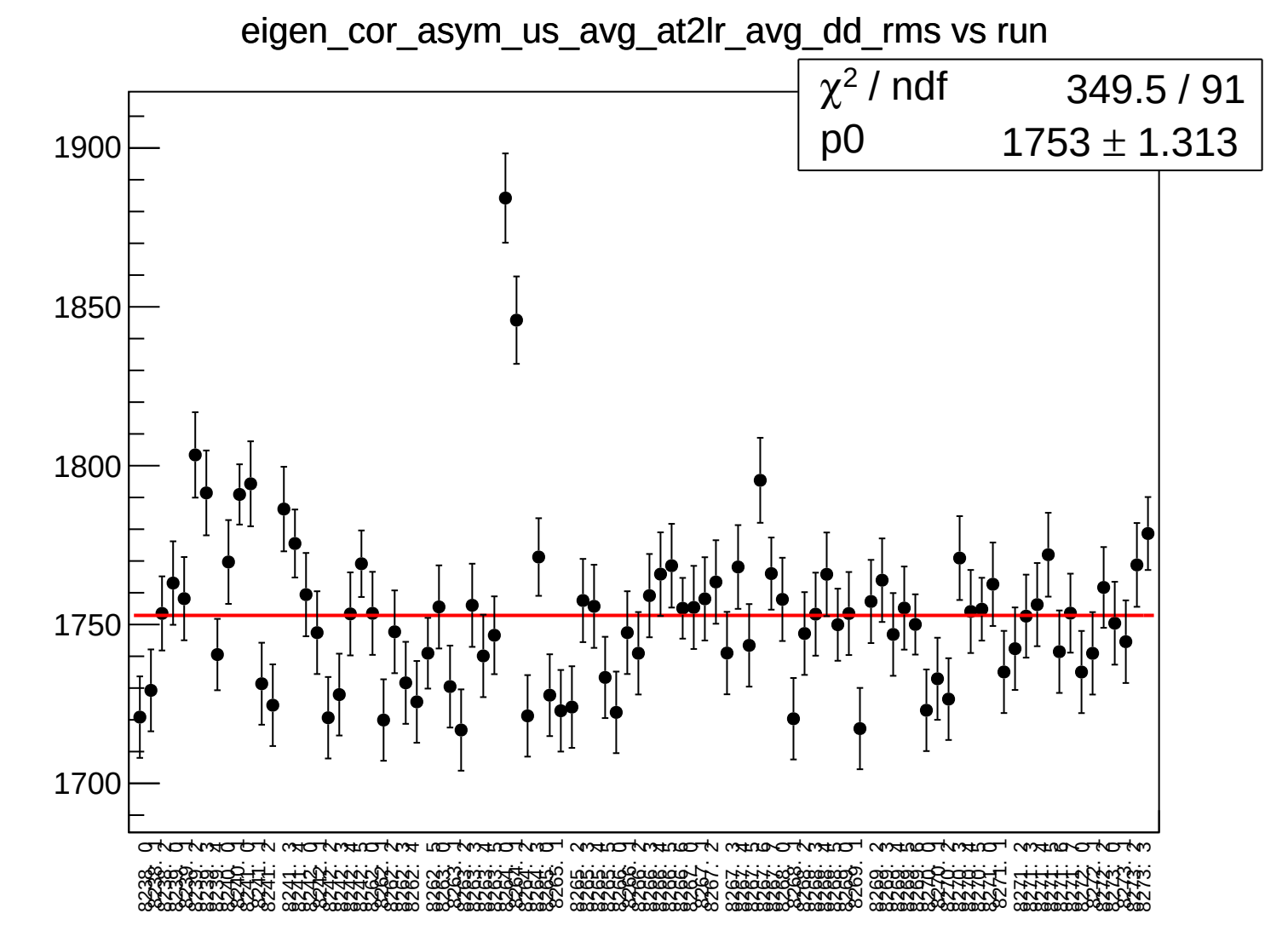

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 68.57 / 91
p0 −2.311e+04 ± 1.118e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean −525.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

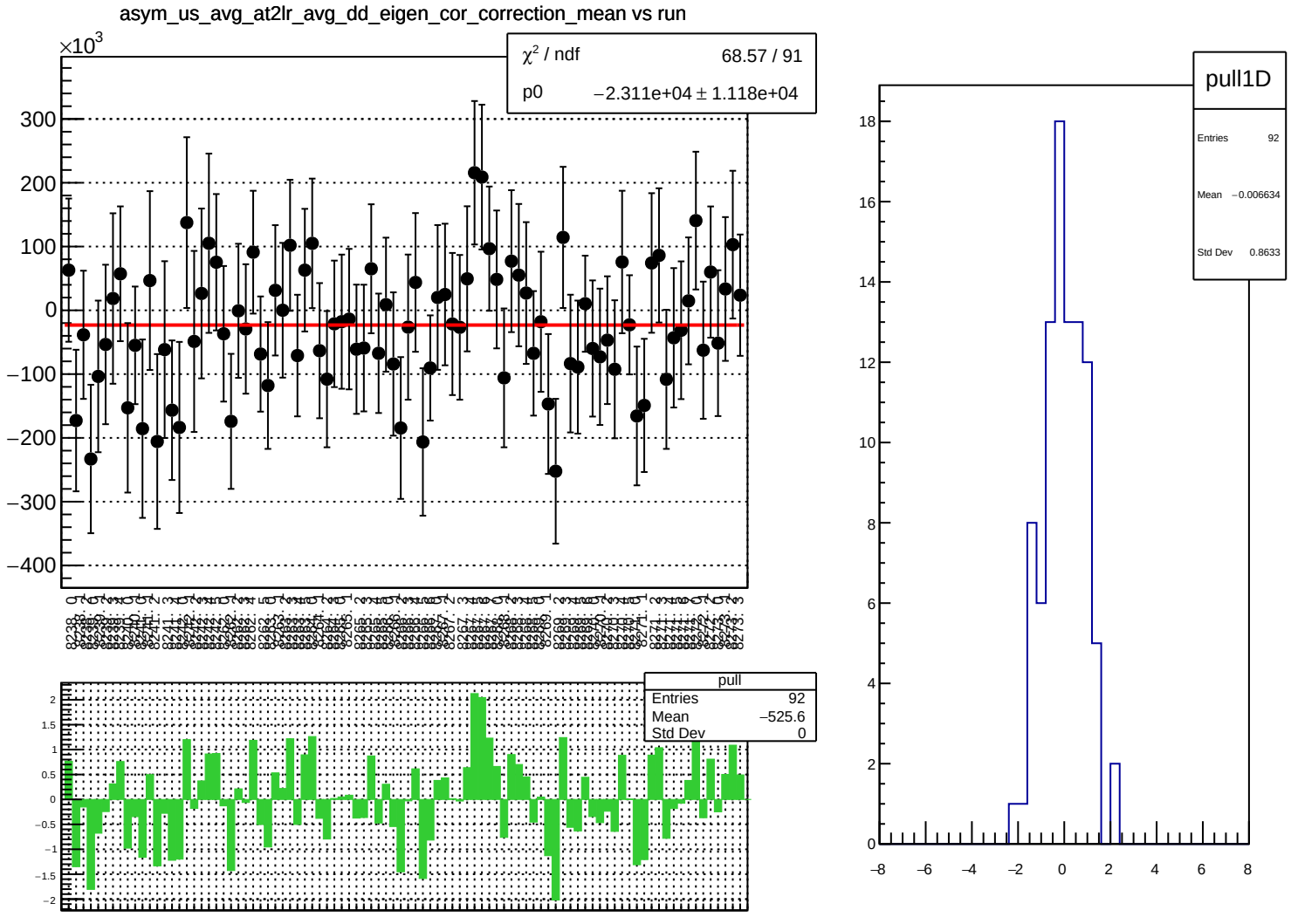

pull1D
Entries 92
Mean −0.006634
Std Dev 0.8633
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

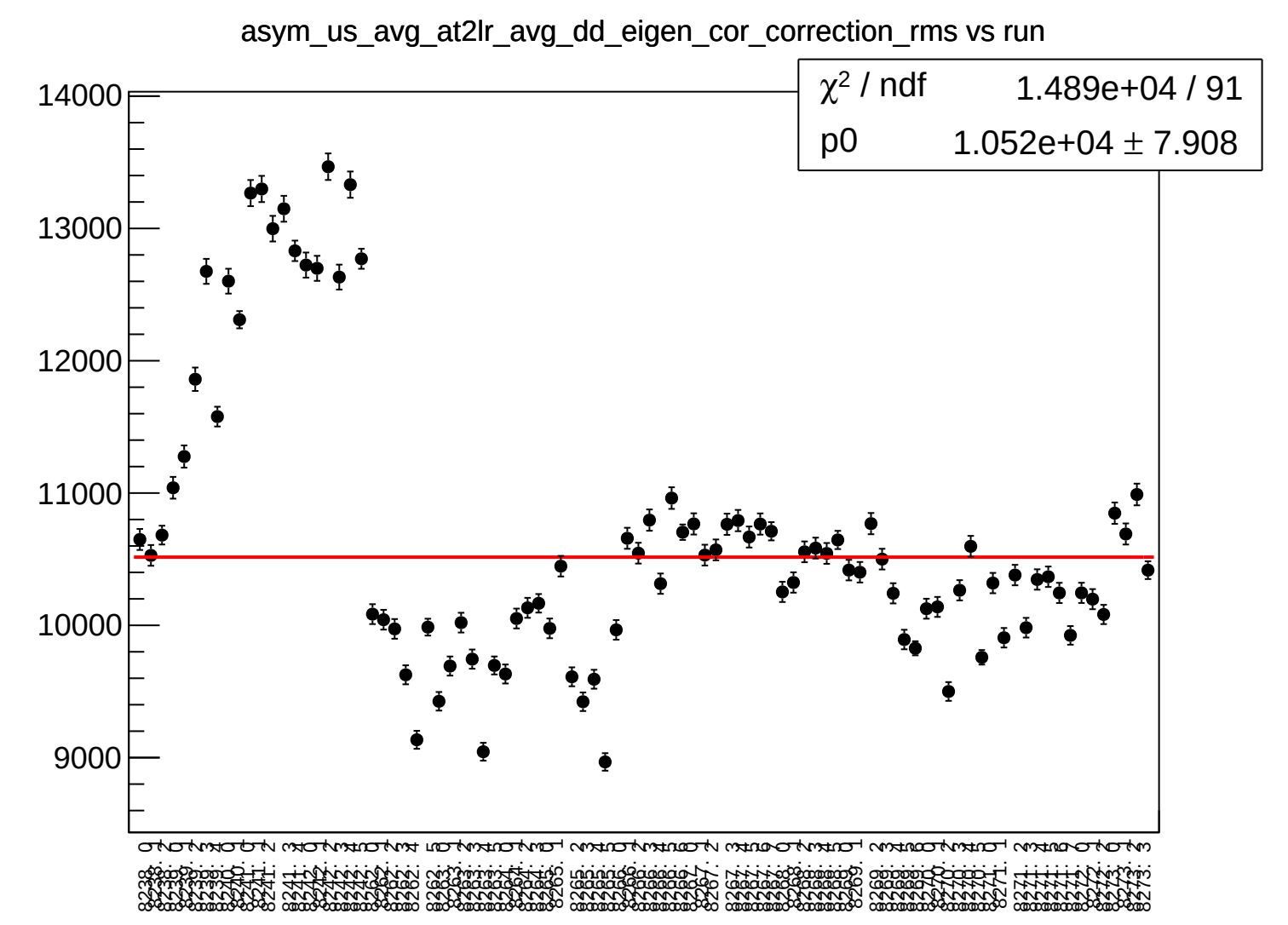

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.489e+04 / 91
p0 1.052e+04 ± 7.908
14000
13000
12000
11000
10000
9000

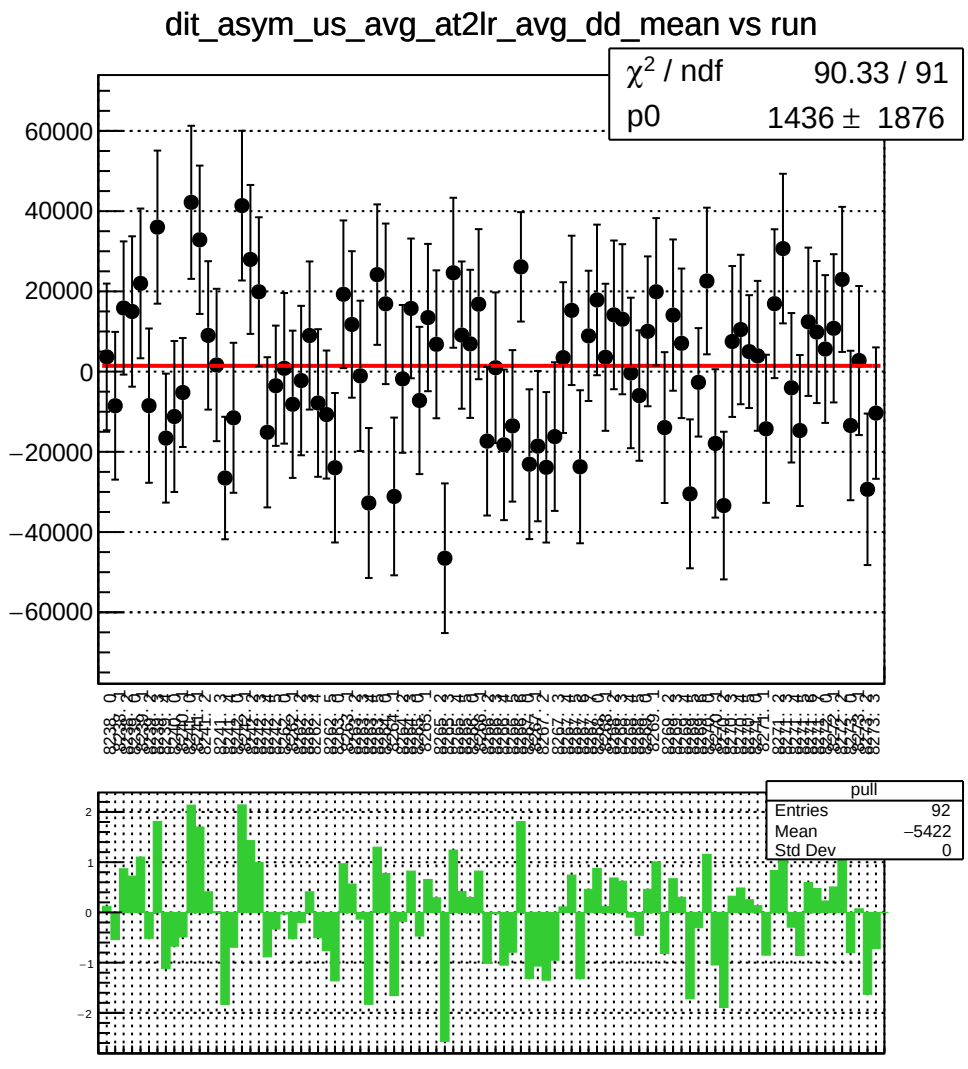

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 88.4 / 91
p0 1675 ± 1857
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −3329
Std Dev 0
2
1
0
−1
−2

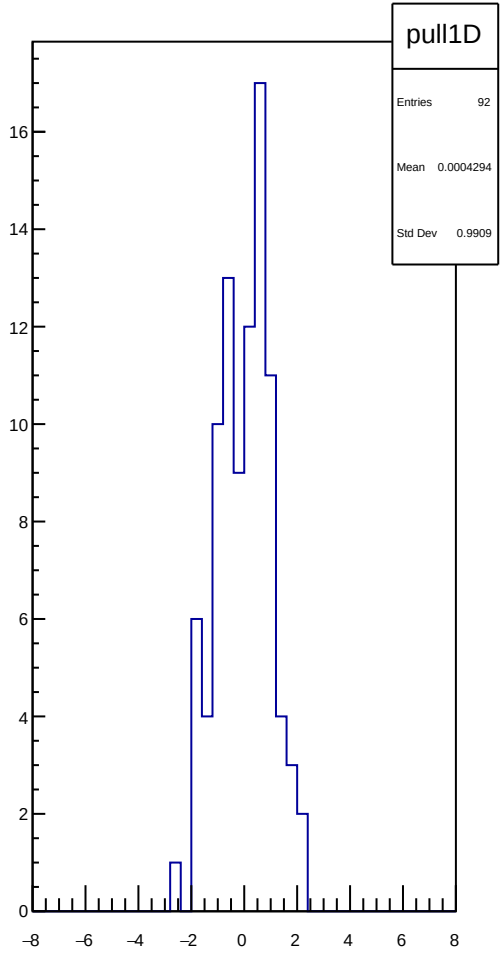

pull1D
Entries 92
Mean 0.0007025
Std Dev 0.9802
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

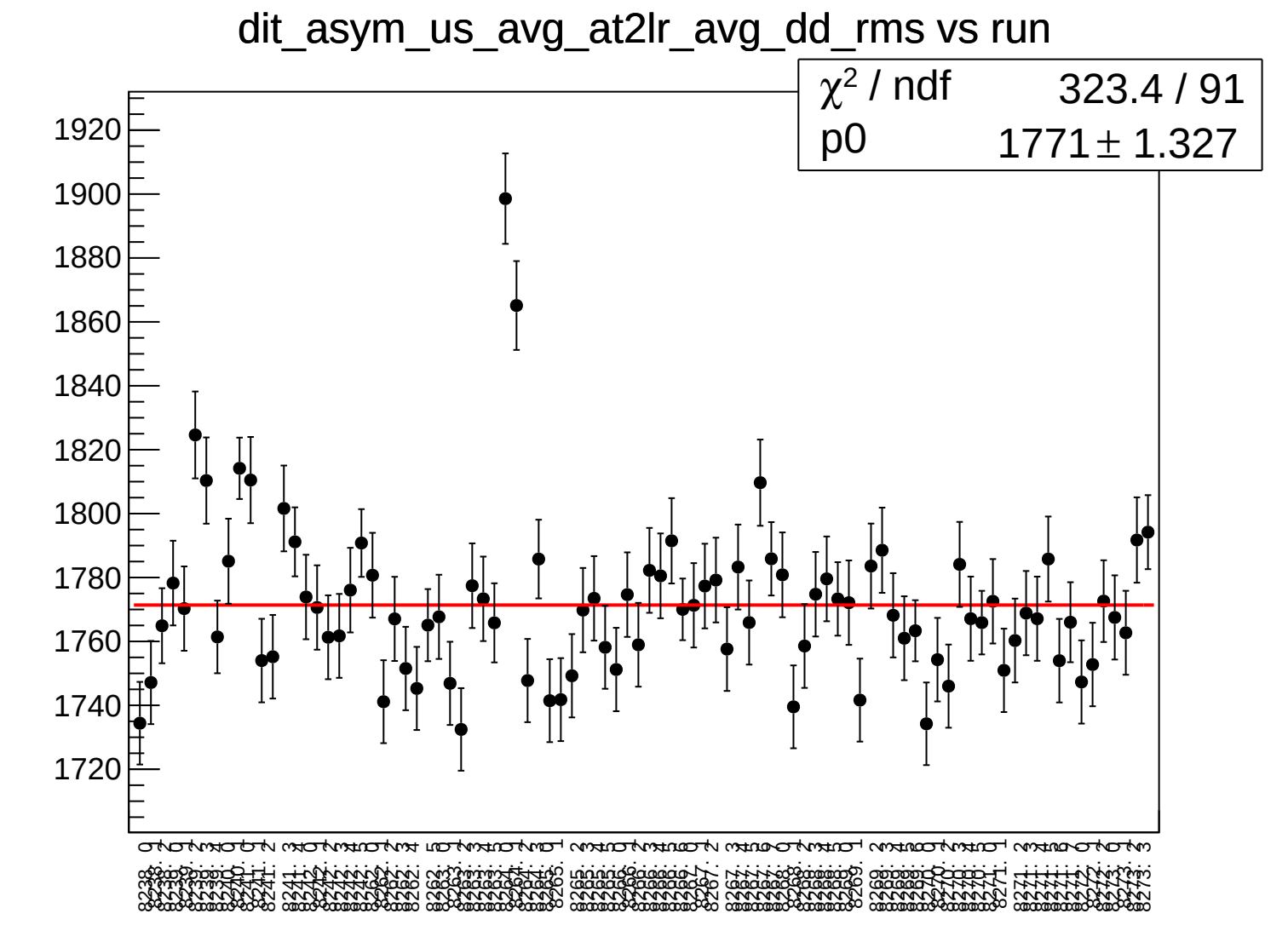

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 349.5 / 91
p0 1753 ± 1.313
1900
1850
1800
1750
1700

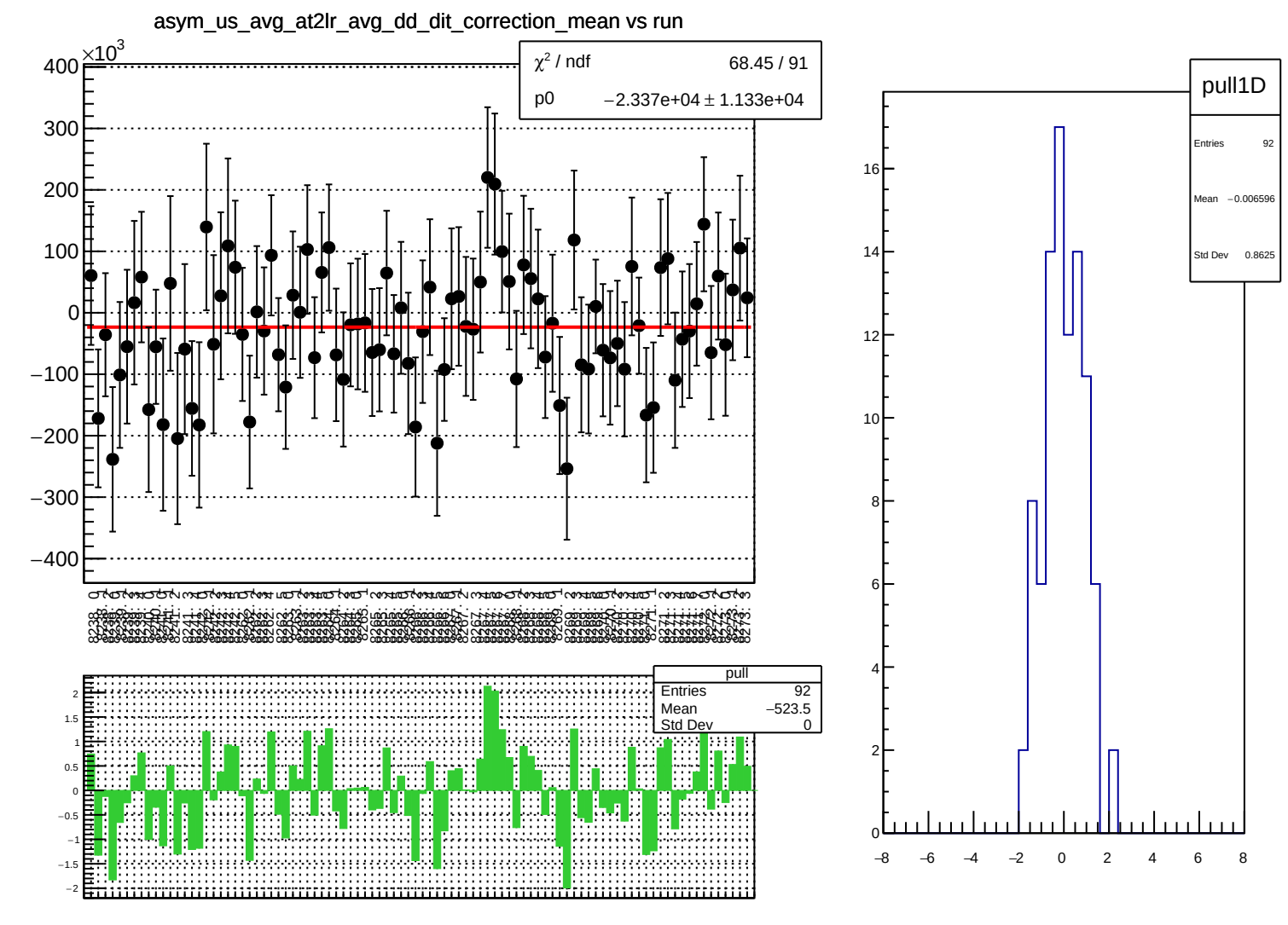

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 68.57 / 91
p0 −2.311e+04 ± 1.118e+04
pull
Entries 92
Mean −525.6
Std Dev 0
pull1D
Entries 92
Mean −0.006634
Std Dev 0.8633

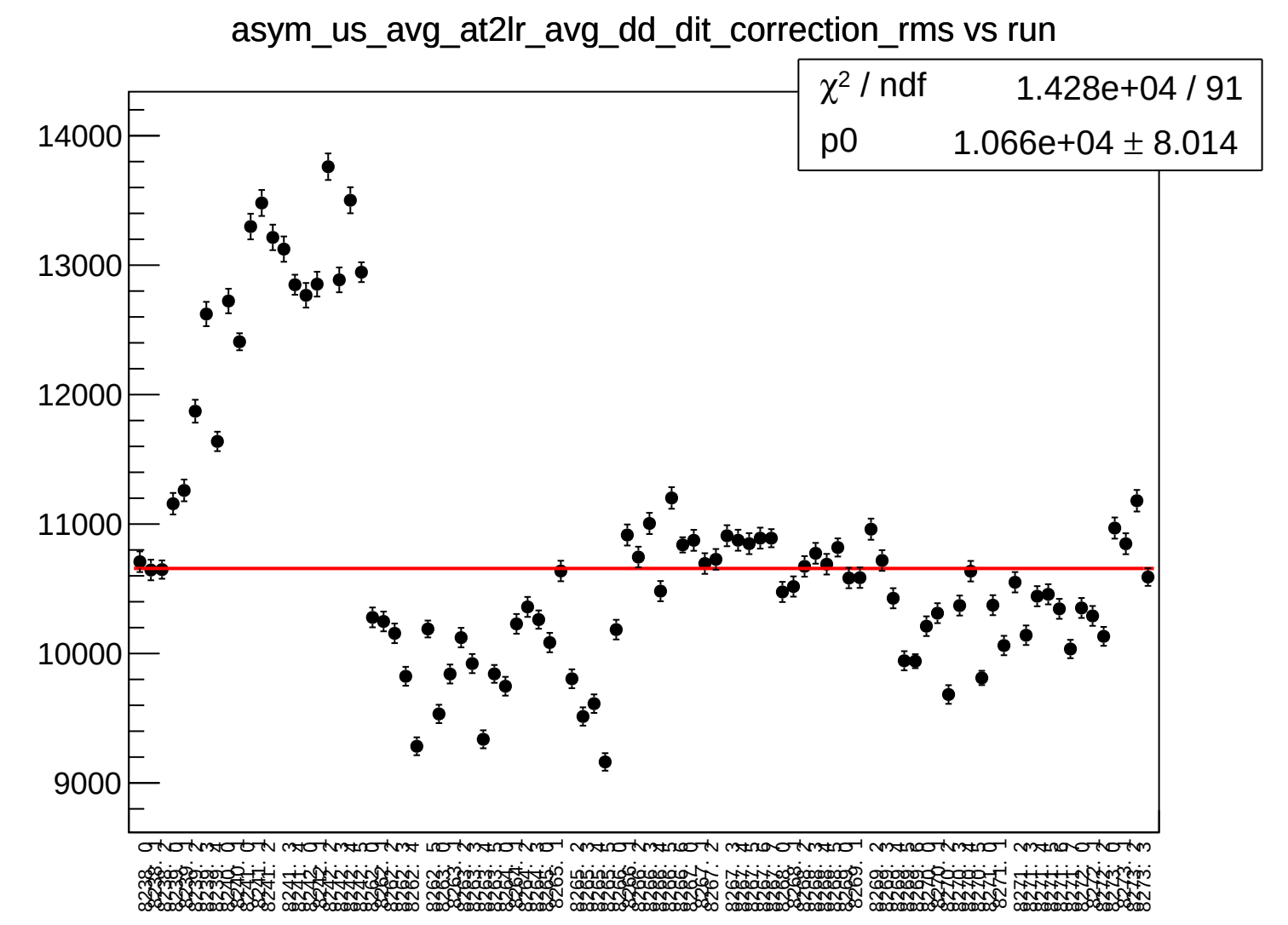

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.489e+04 / 91
p0 1.052e+04 ± 7.908
14000
13000
12000
11000
10000
9000

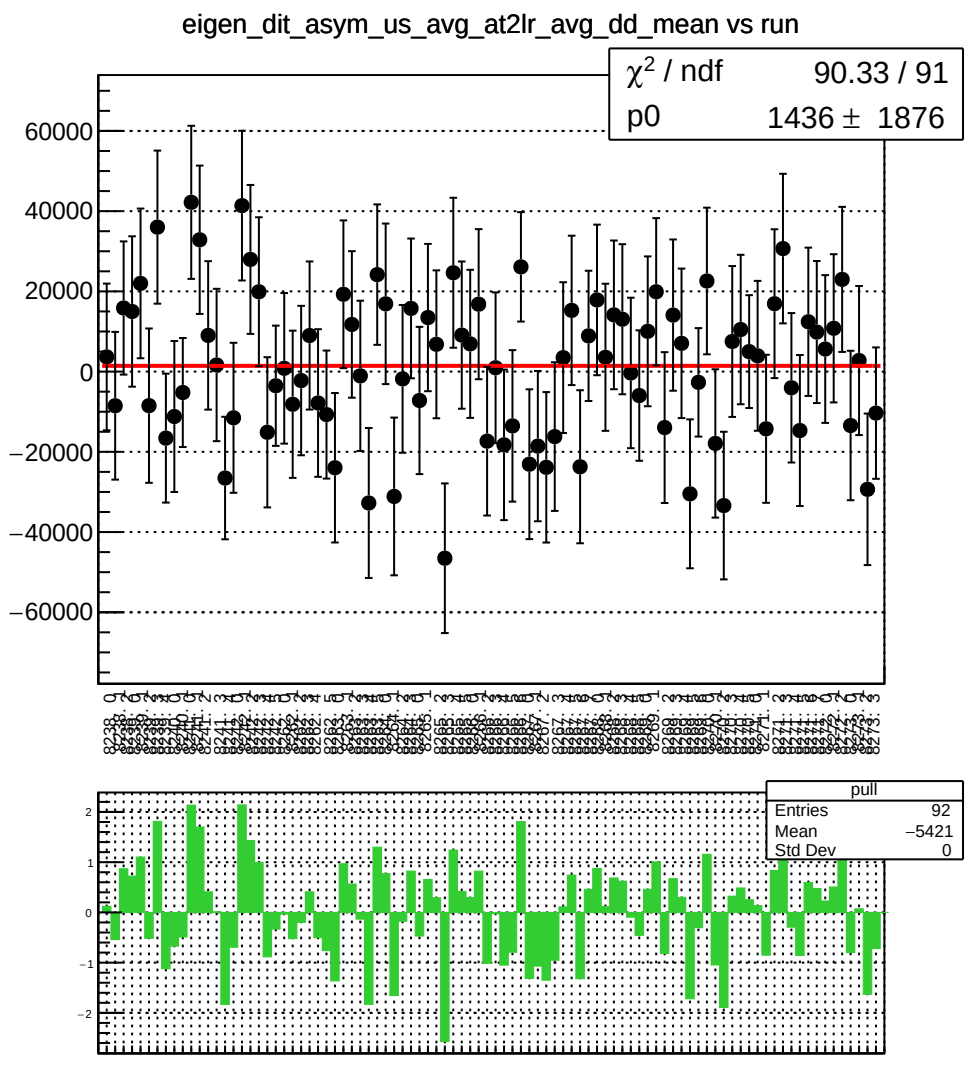

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 90.33 / 91
p0 1436 ± 1876
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −5422
Std Dev 0
2
1
0
−1
−2

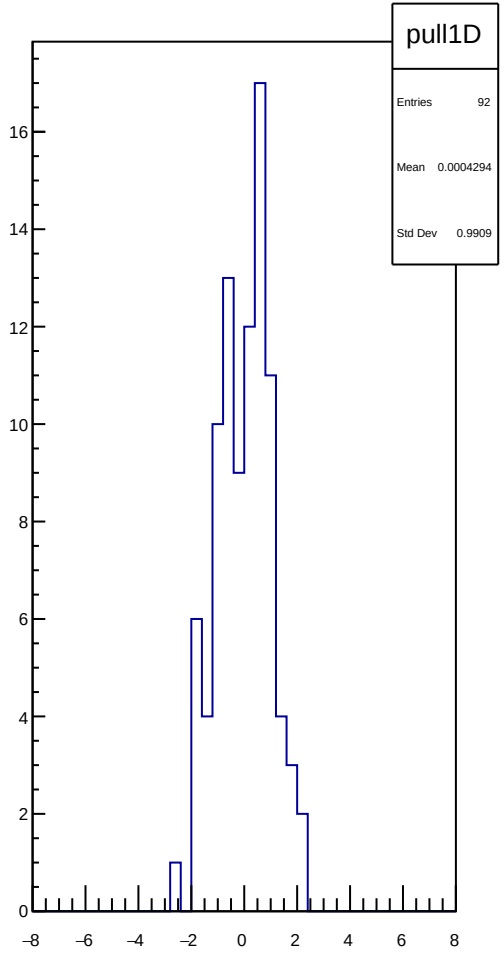

pull1D
Entries 92
Mean 0.0004294
Std Dev 0.9909
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

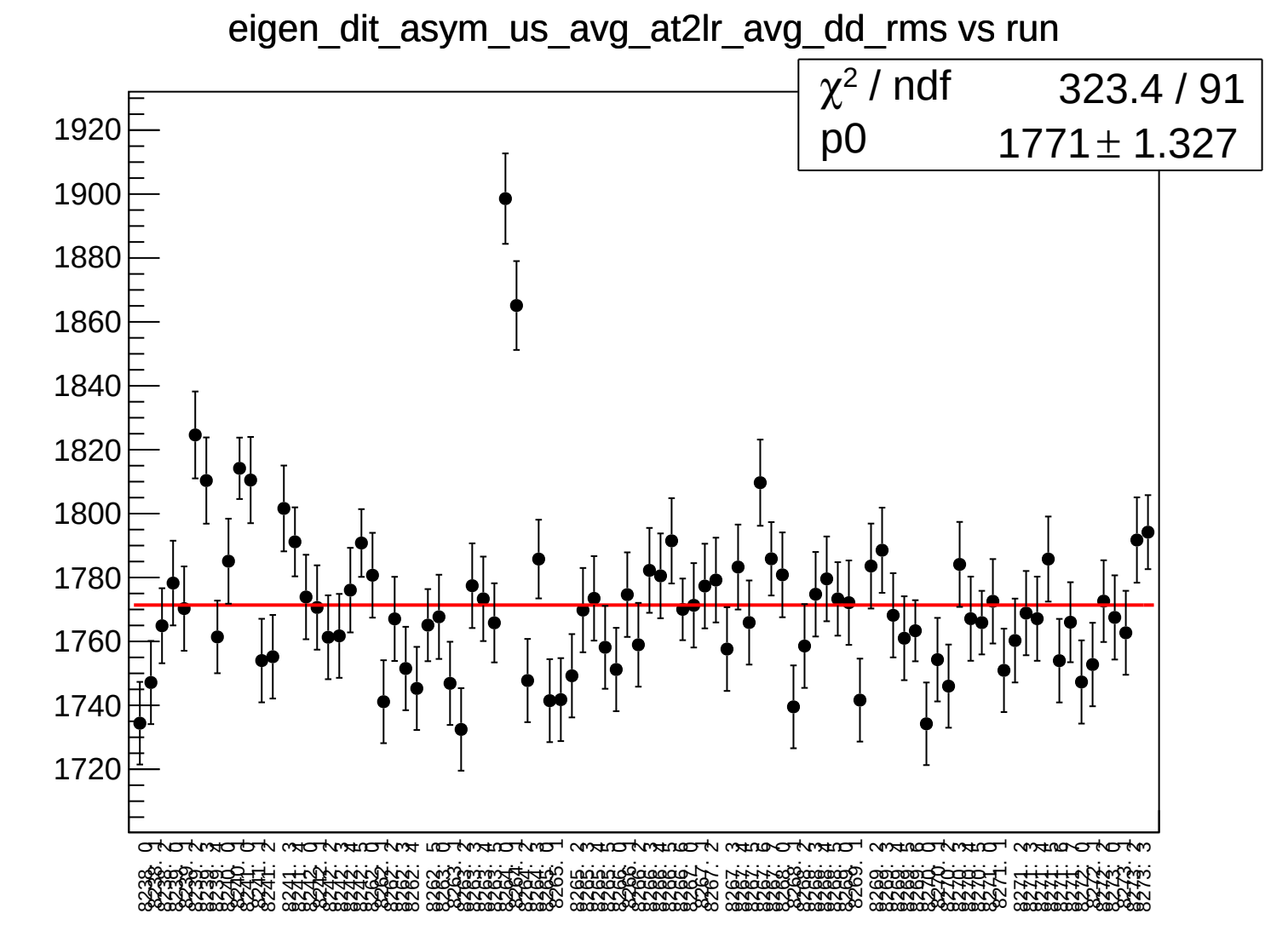

dit_asym_us_avg_at2lr_avg_dd_rms vs run
$\chi^2$ / ndf 323.4 / 91
p0 1771 ± 1.327
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

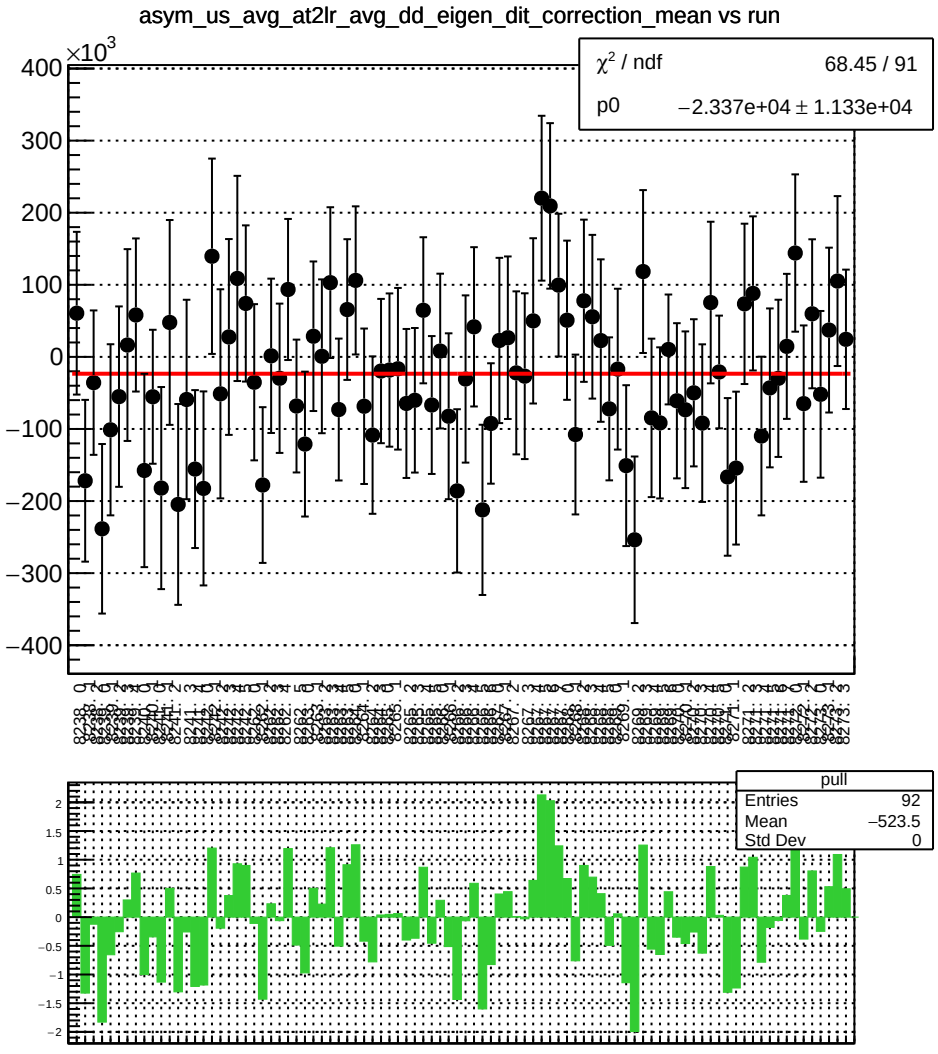

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
χ² / ndf 68.45 / 91
p0 −2.337e+04 ± 1.133e+04
×10³
pull
Entries 92
Mean −523.5
Std Dev 0
pull1D
Entries 92
Mean −0.006596
Std Dev 0.8625

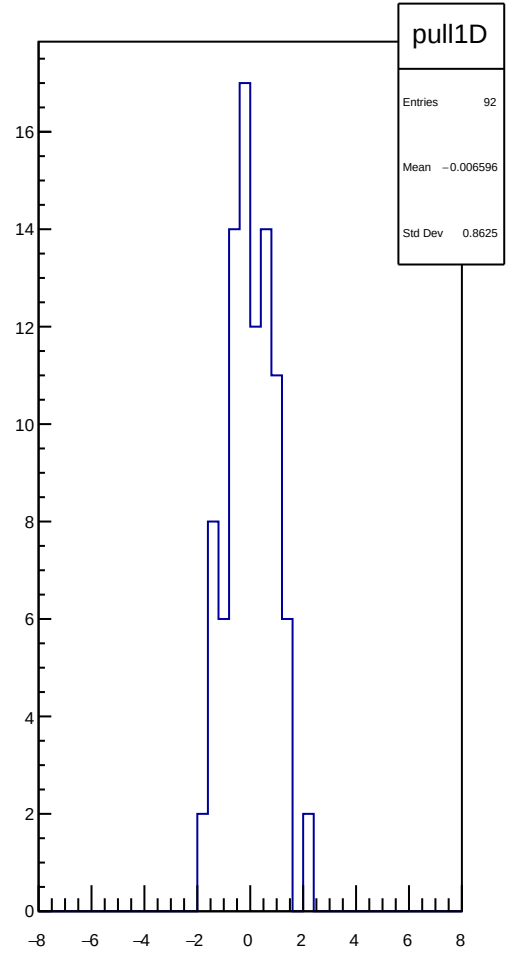

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.428e+04 / 91
p0 1.066e+04 ± 8.014
14000
13000
12000
11000
10000
9000

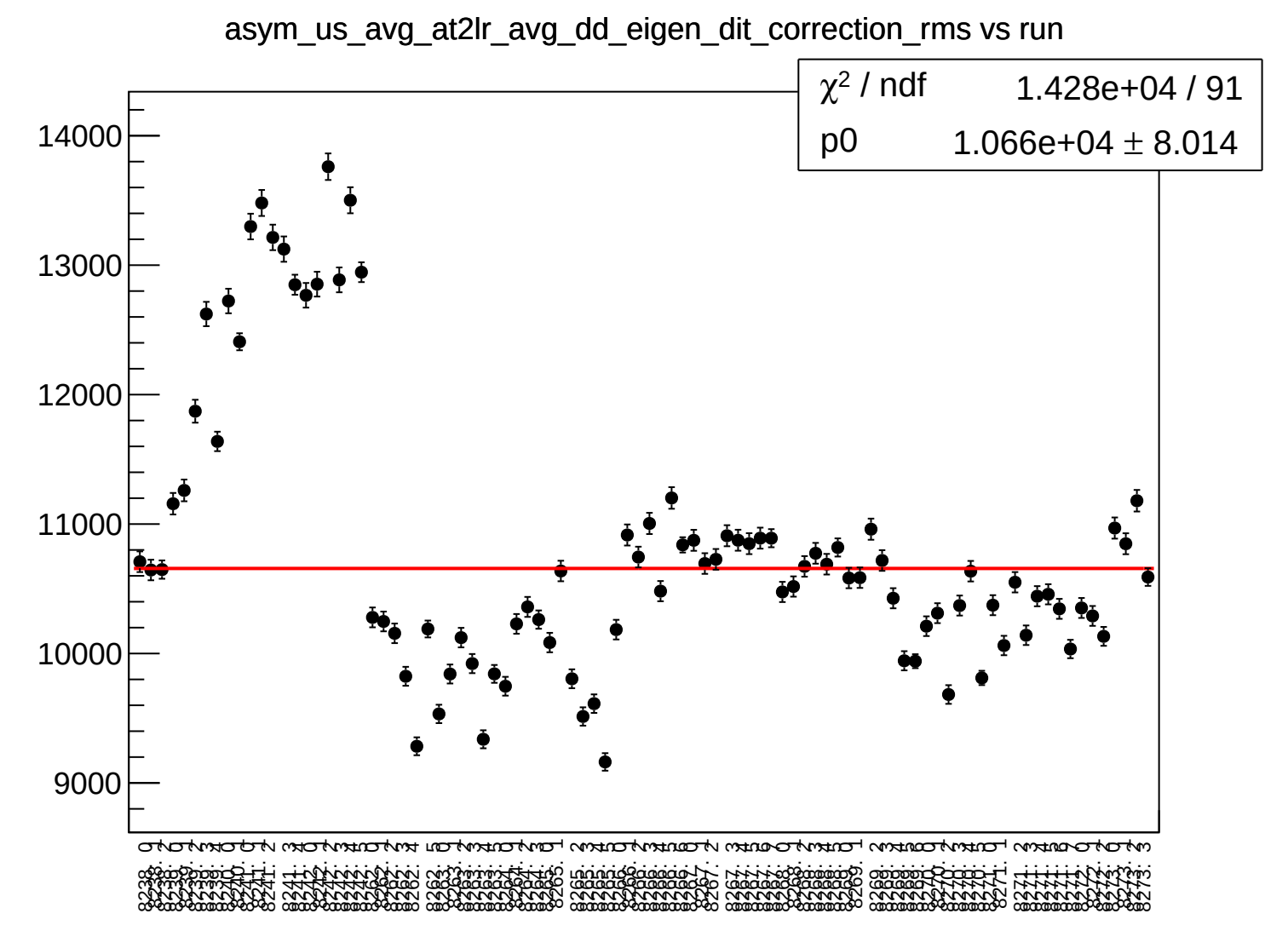

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 90.33 / 91
p0 1436 ± 1876
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −5421
Std Dev 0
2
1
0
−1
−2

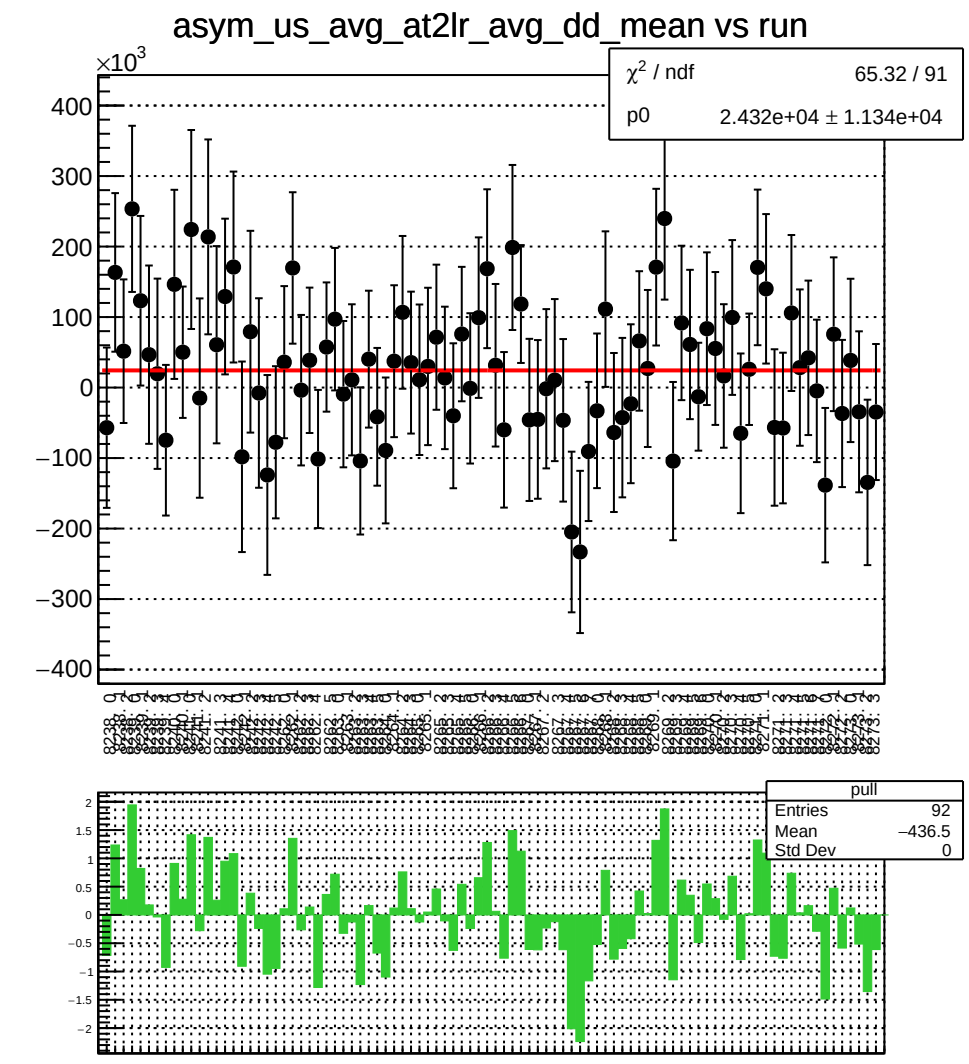

pull1D
Entries 92
Mean 0.0004294
Std Dev 0.9909
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

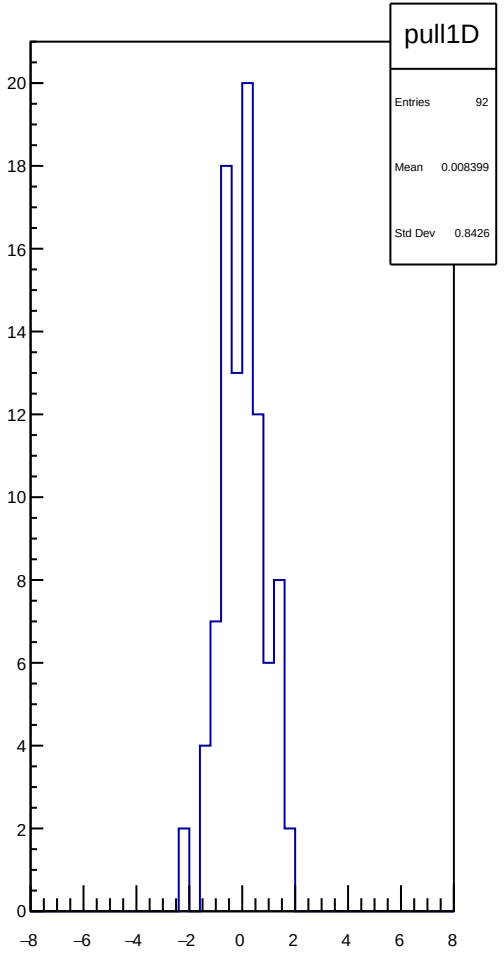

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
$\chi^2$ / ndf 323.4 / 91
p0 1771 ± 1.327
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

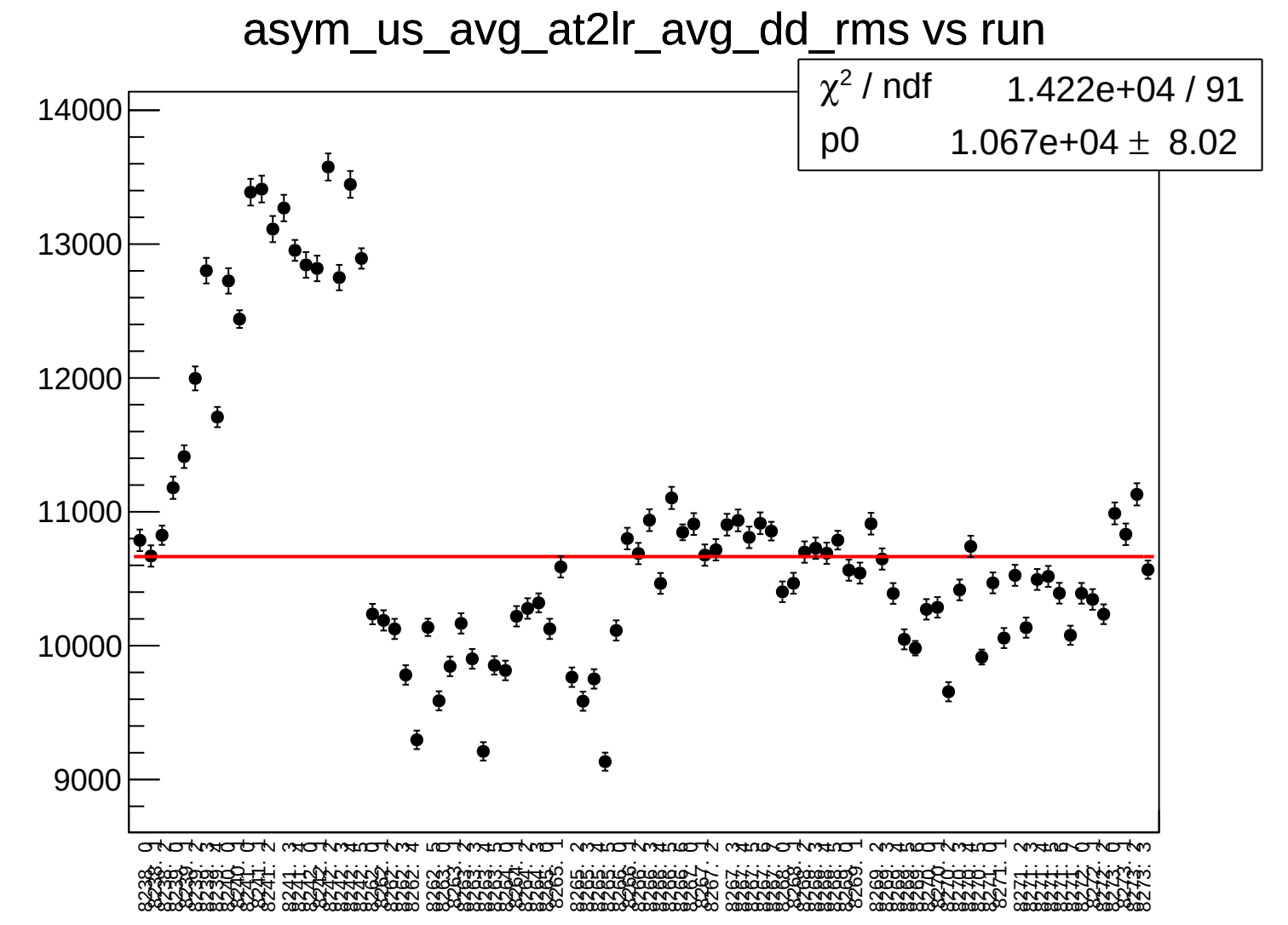

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.45 / 91
p0 −2.337e+04 ± 1.133e+04
pull
Entries 92
Mean −523.5
Std Dev 0

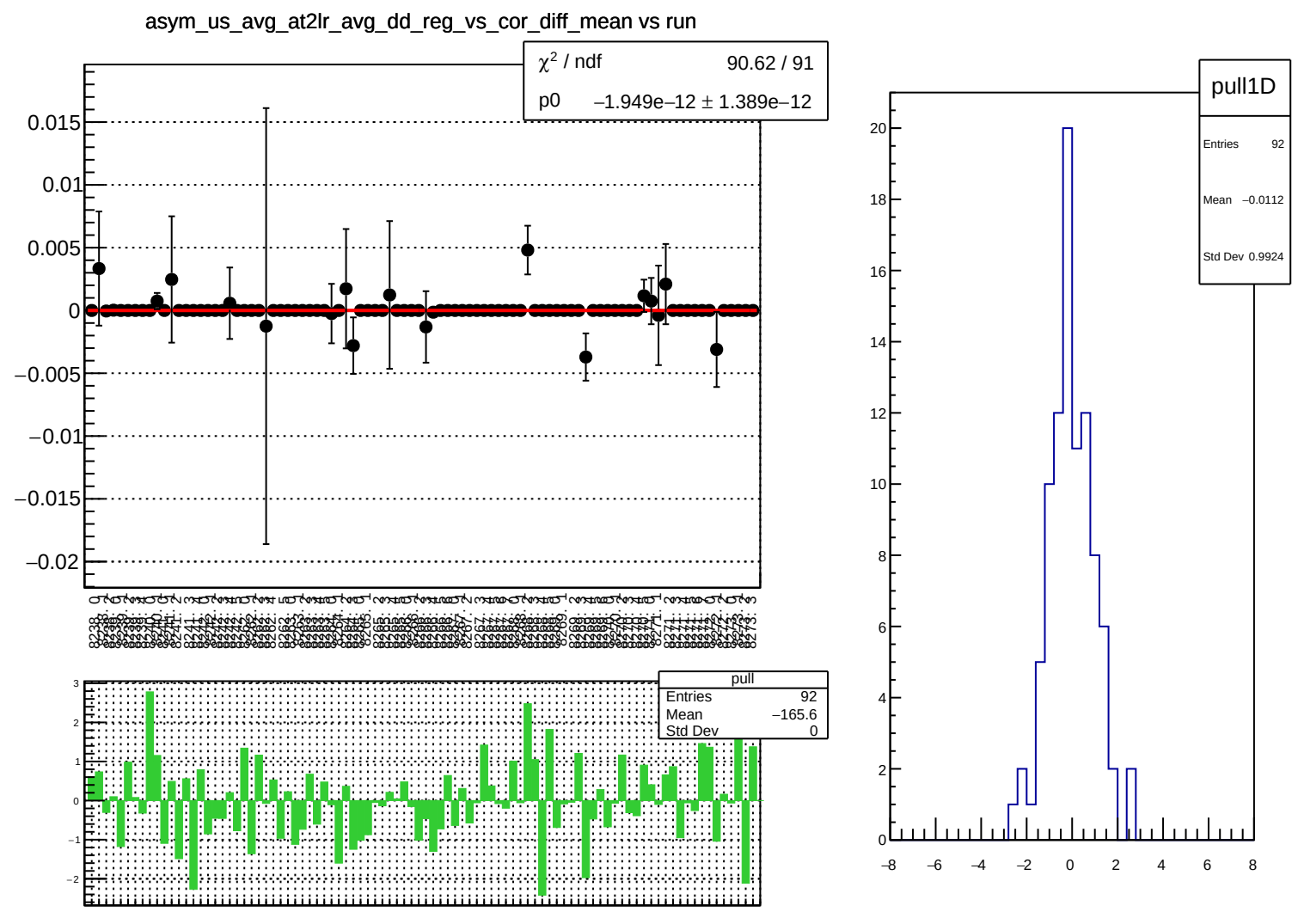

pull1D
Entries 92
Mean −0.006596
Std Dev 0.8625

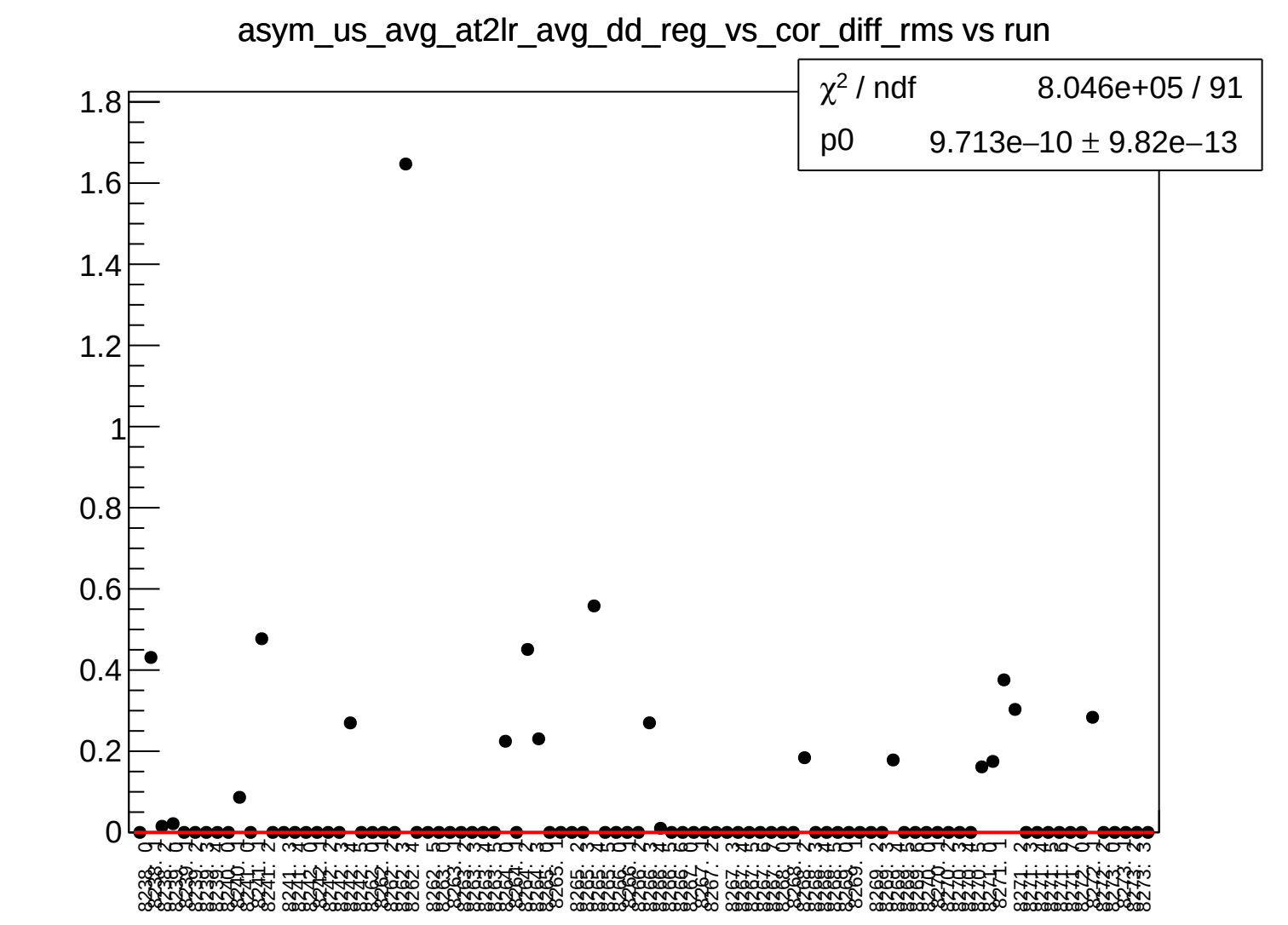

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.428e+04 / 91
p0 1.066e+04 ± 8.014
14000
13000
12000
11000
10000
9000

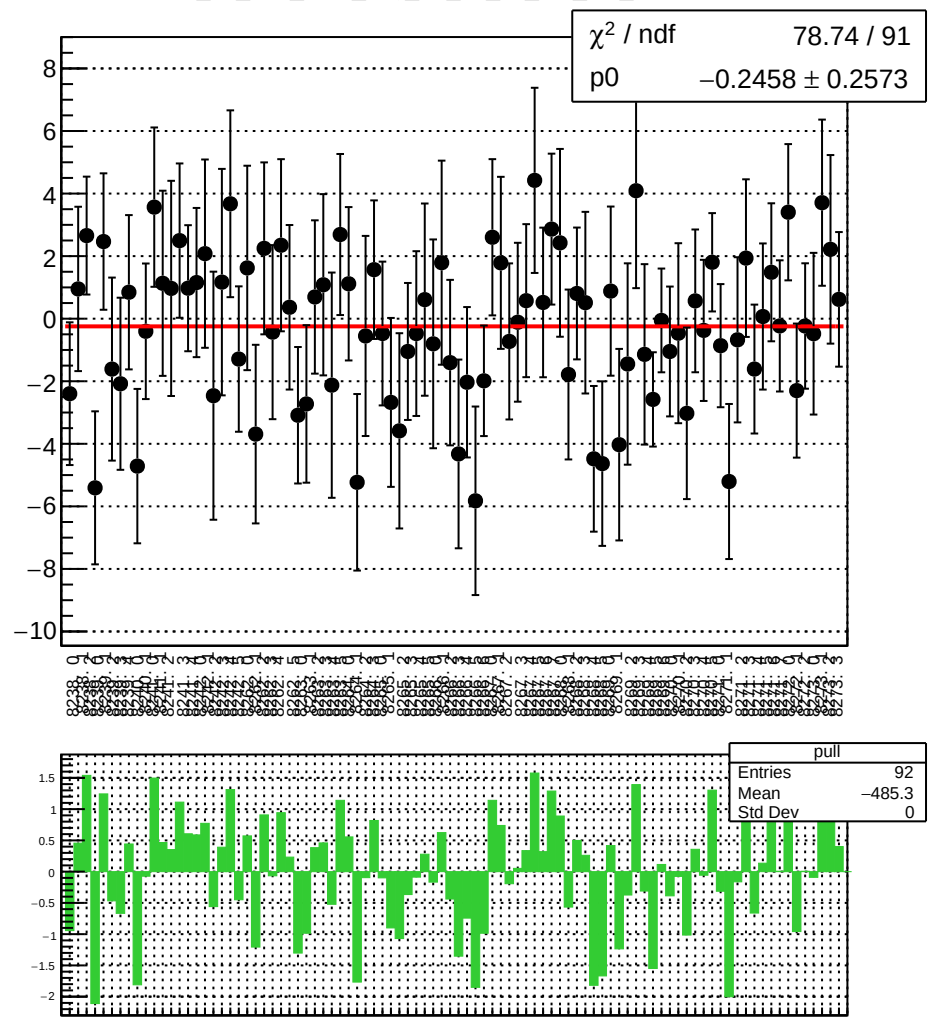

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 65.32 / 91
p0 2.432e+04 ± 1.134e+04
pull
Entries 92
Mean −436.5
Std Dev 0

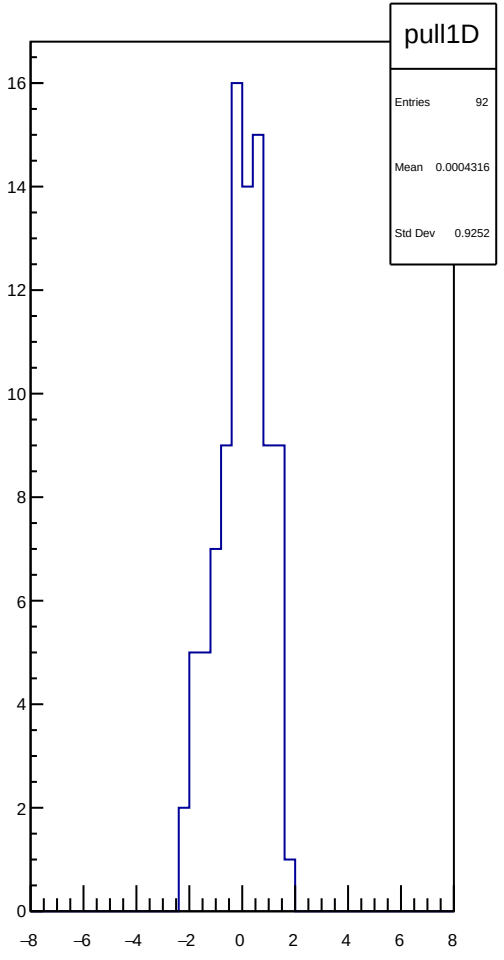

pull1D
Entries 92
Mean 0.008399
Std Dev 0.8426

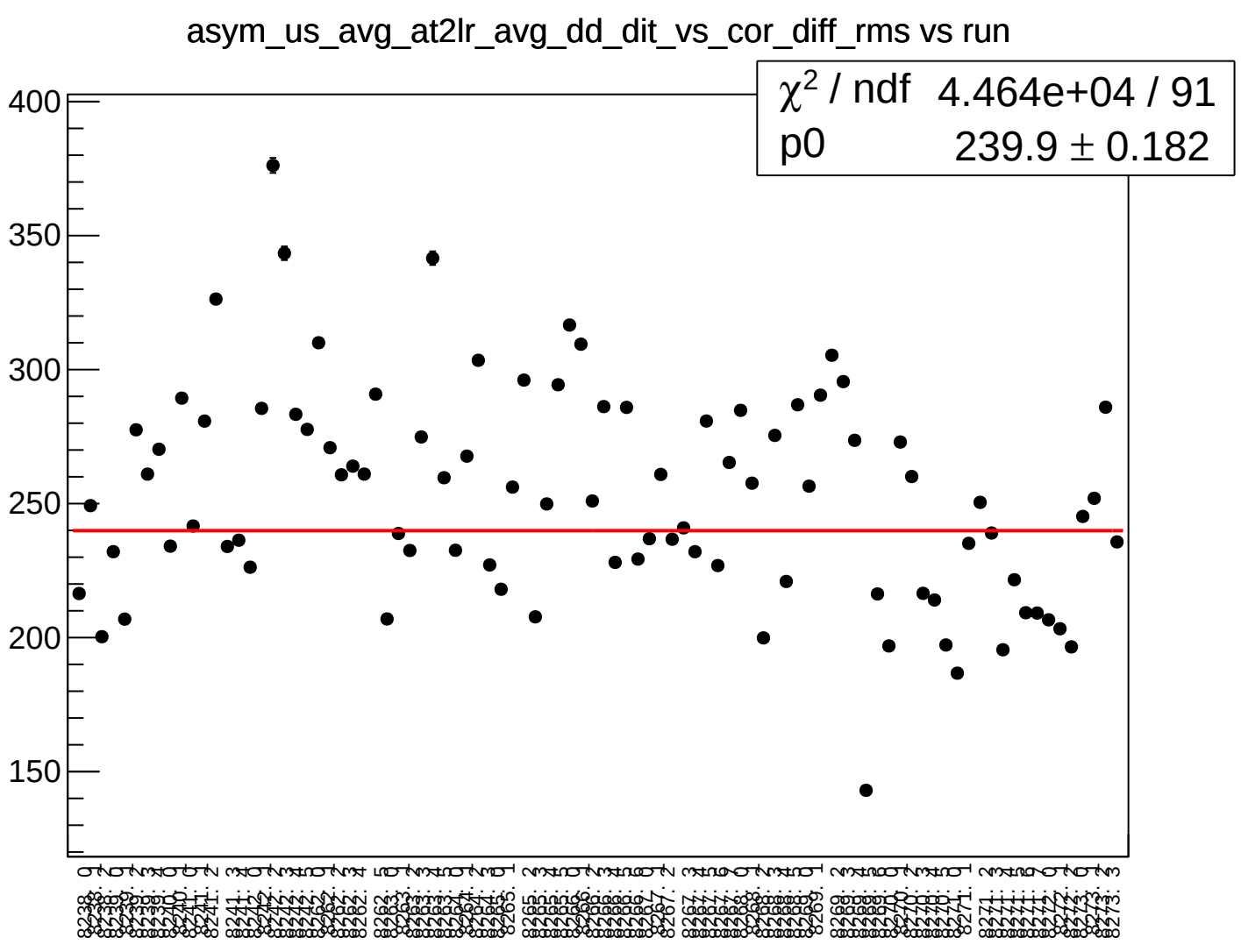

asym_us_avg_at2lr_avg_dd_rms vs run
$\chi^2$ / ndf 1.422e+04 / 91
p0 1.067e+04 ± 8.02
14000
13000
12000
11000
10000
9000

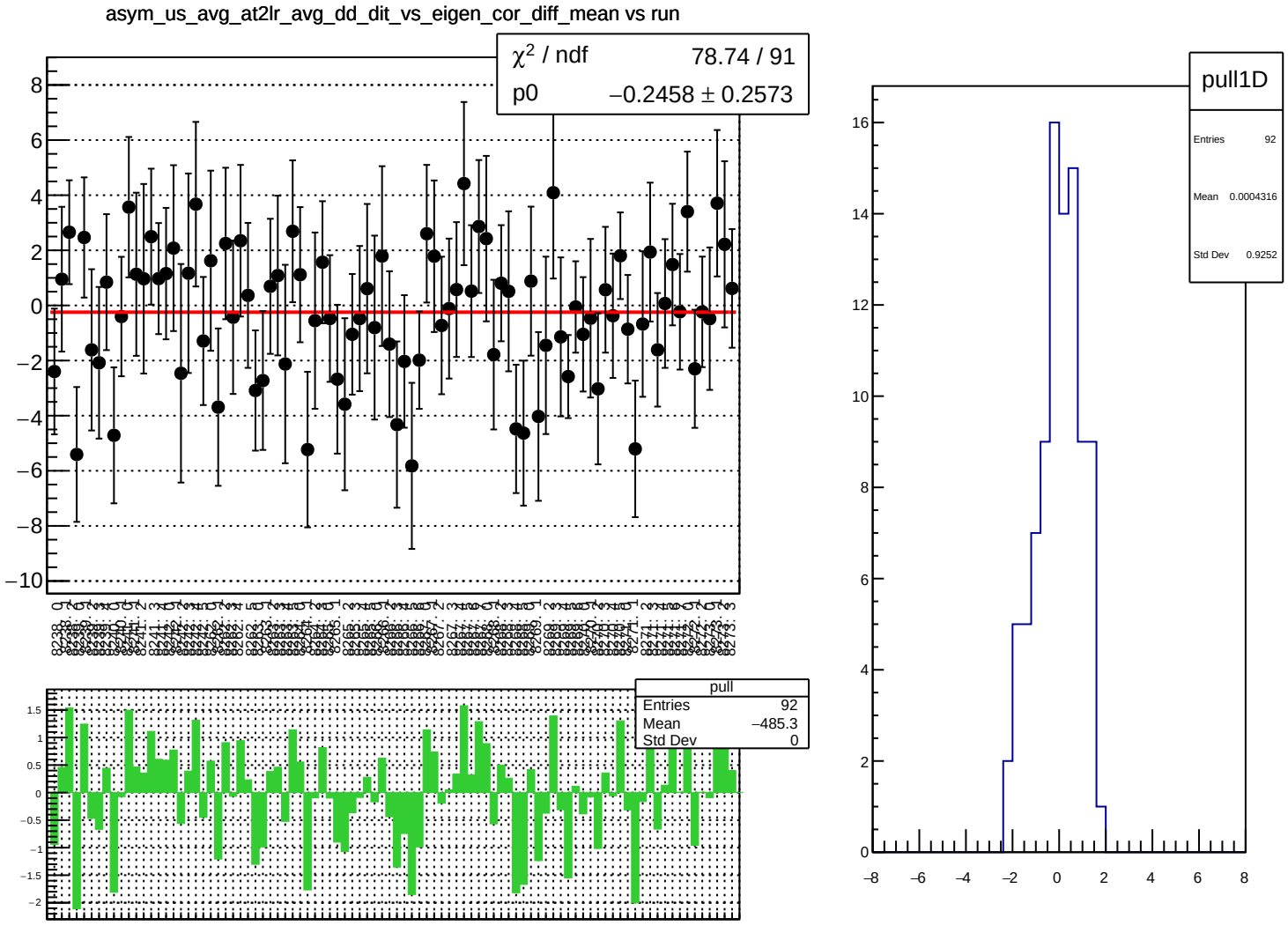

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.62 / 91
p0 −1.949e−12 ± 1.389e−12
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 92
Mean −165.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0112
Std Dev 0.9924
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

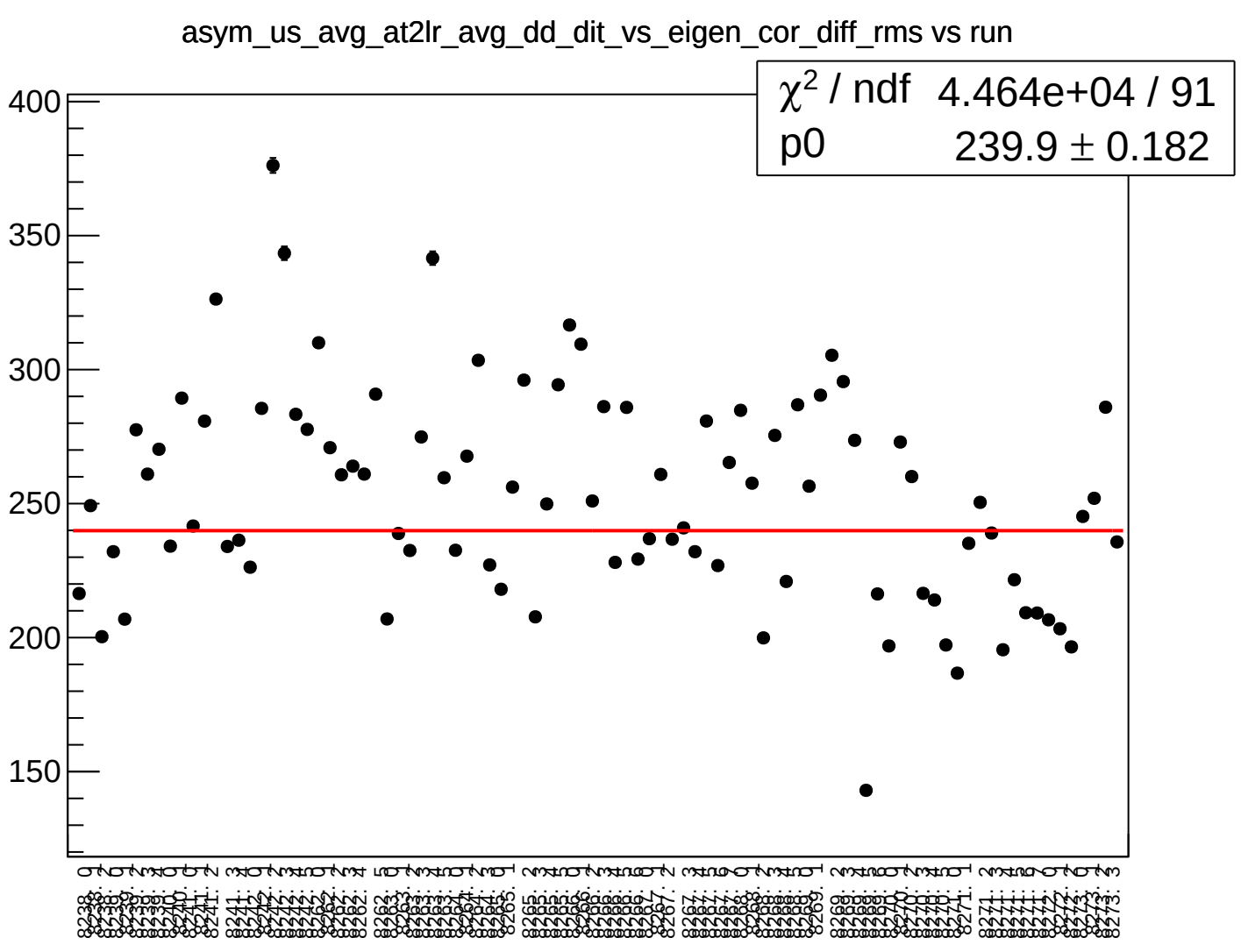

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.046e+05 / 91
p0 9.713e−10 ± 9.82e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

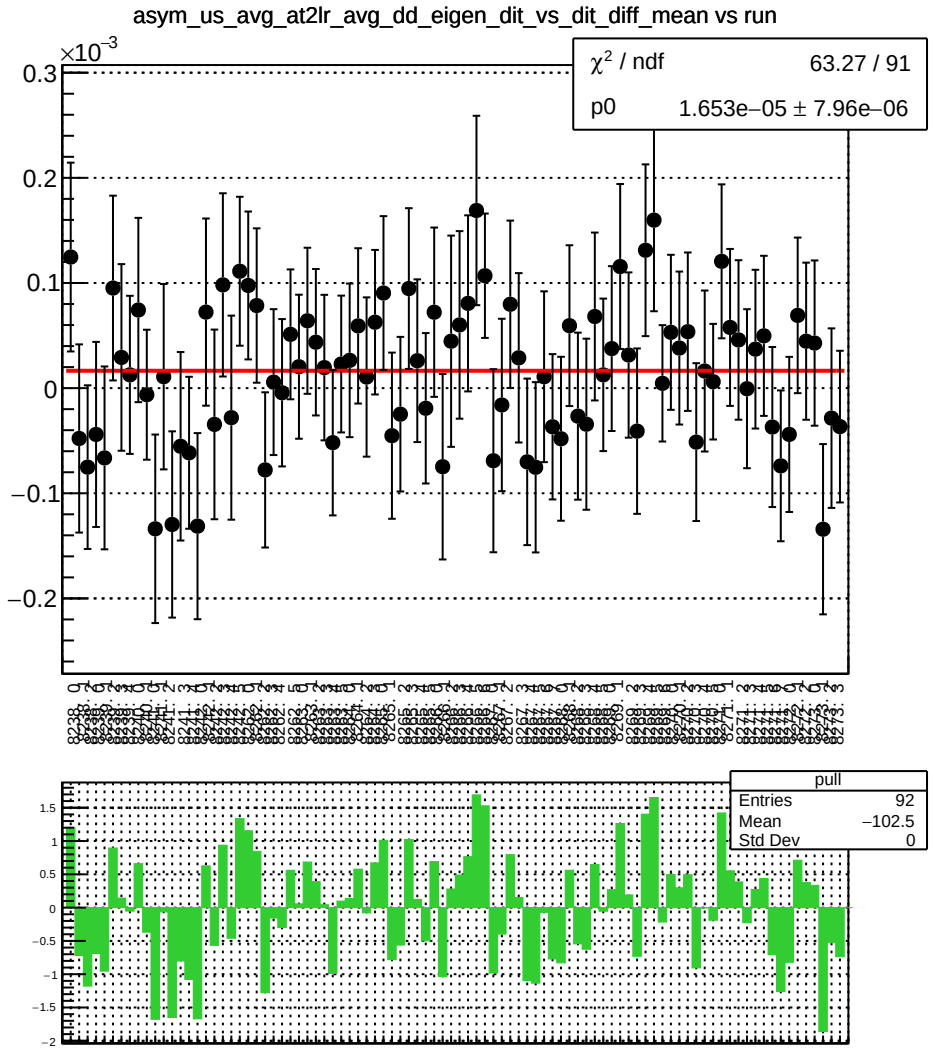

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.74 / 91
p0 −0.2458 ± 0.2573
pull
Entries 92
Mean −485.3
Std Dev 0

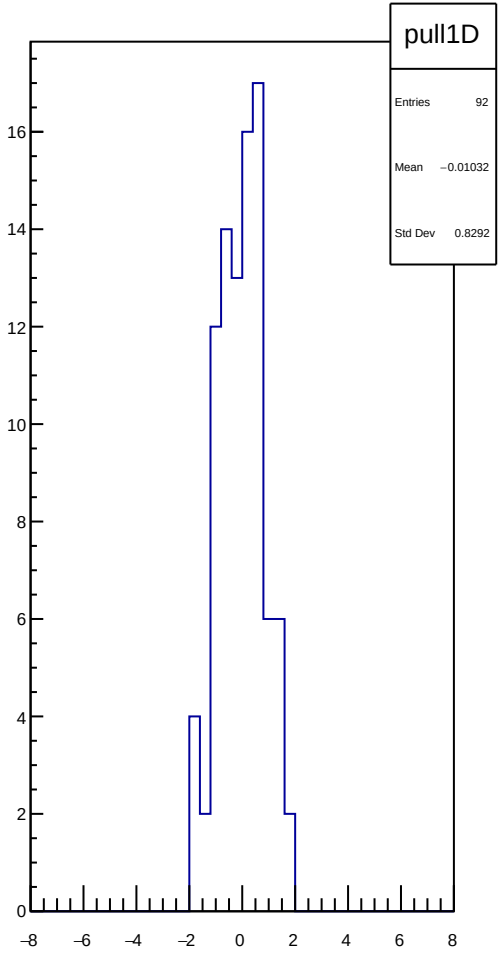

pull1D
Entries 92
Mean 0.0004316
Std Dev 0.9252

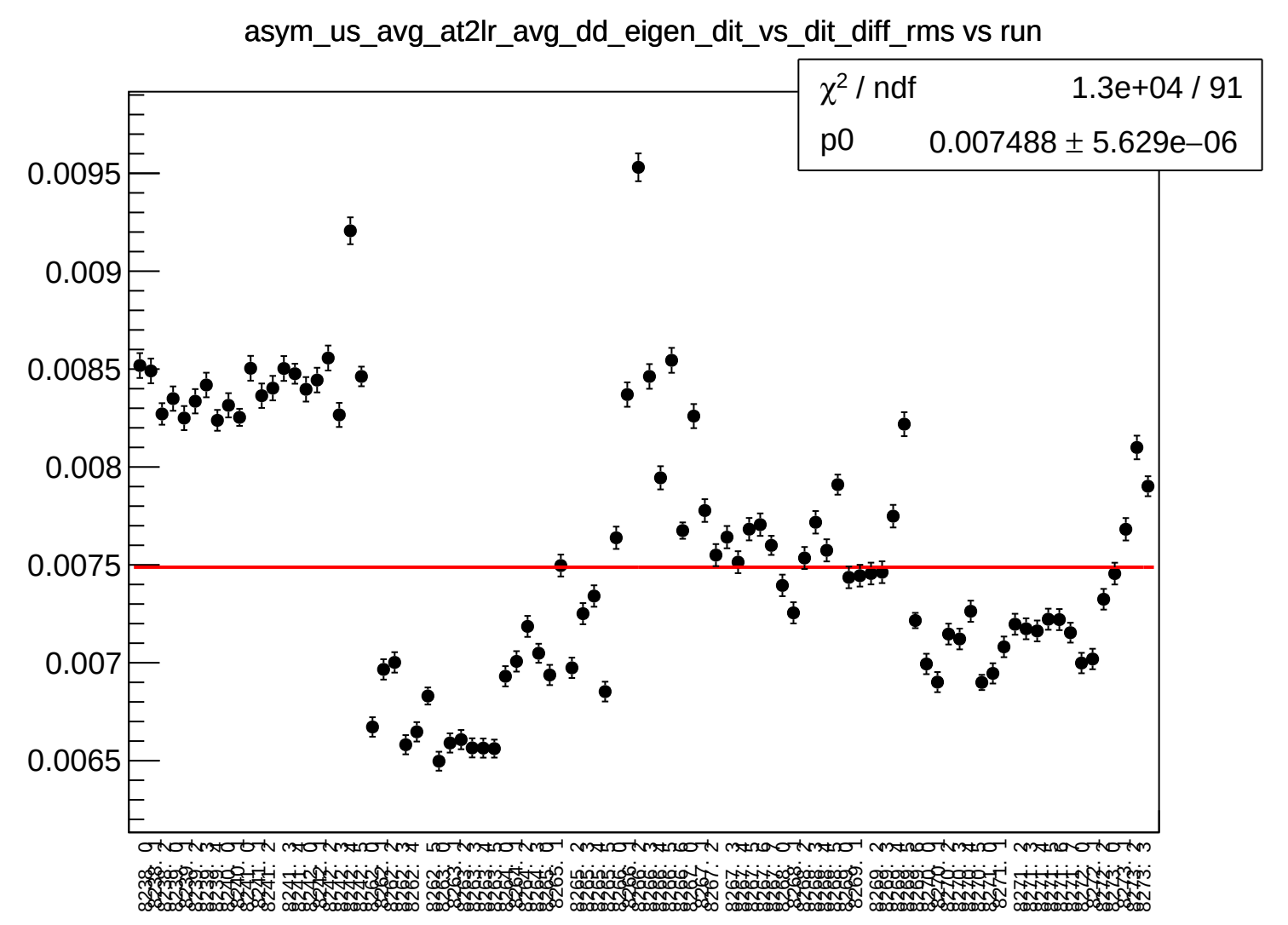

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.464e+04 / 91
p0 239.9 ± 0.182
400
350
300
250
200
150

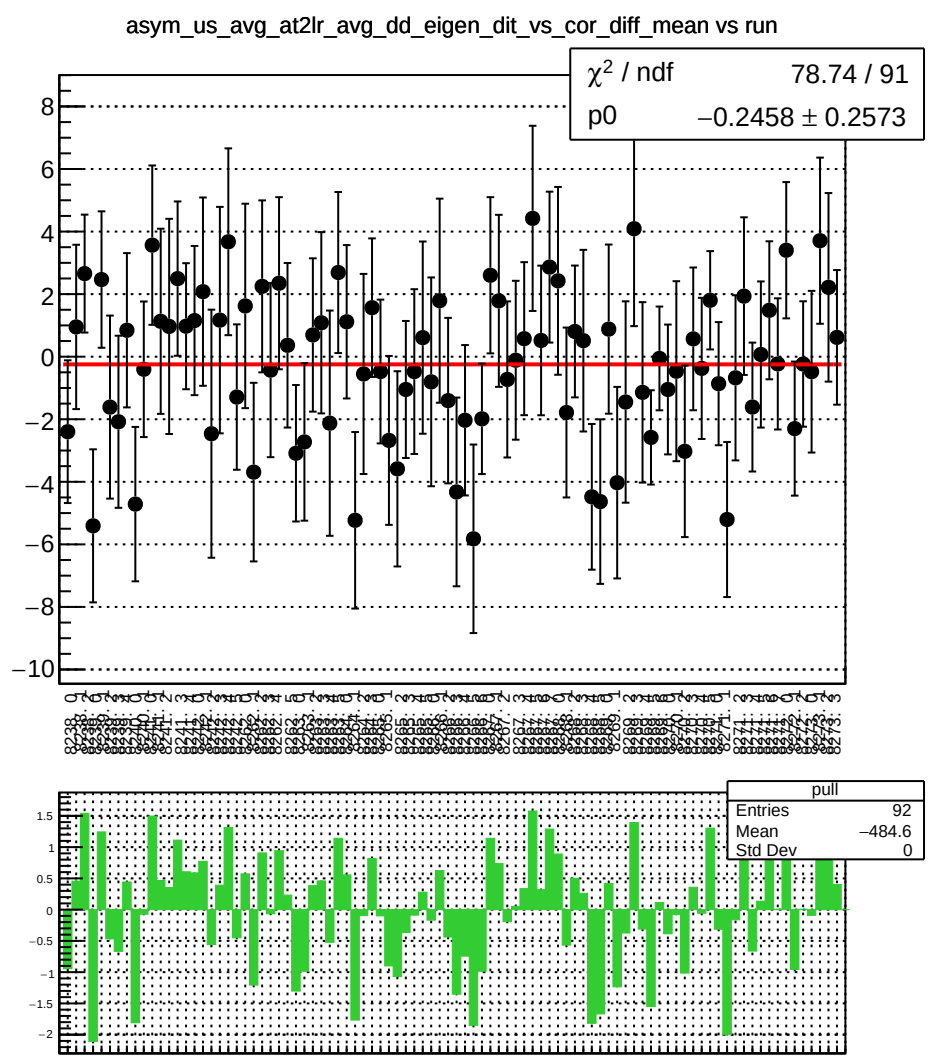

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.74 / 91
p0 −0.2458 ± 0.2573
pull
Entries 92
Mean −485.3
Std Dev 0
pull1D
Entries 92
Mean 0.0004316
Std Dev 0.9252

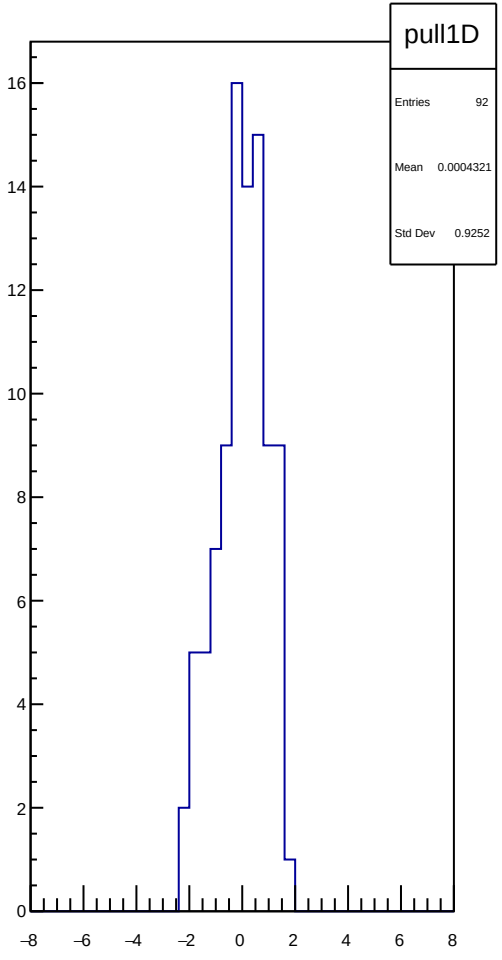

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.464e+04 / 91
p0 239.9 ± 0.182
400
350
300
250
200
150

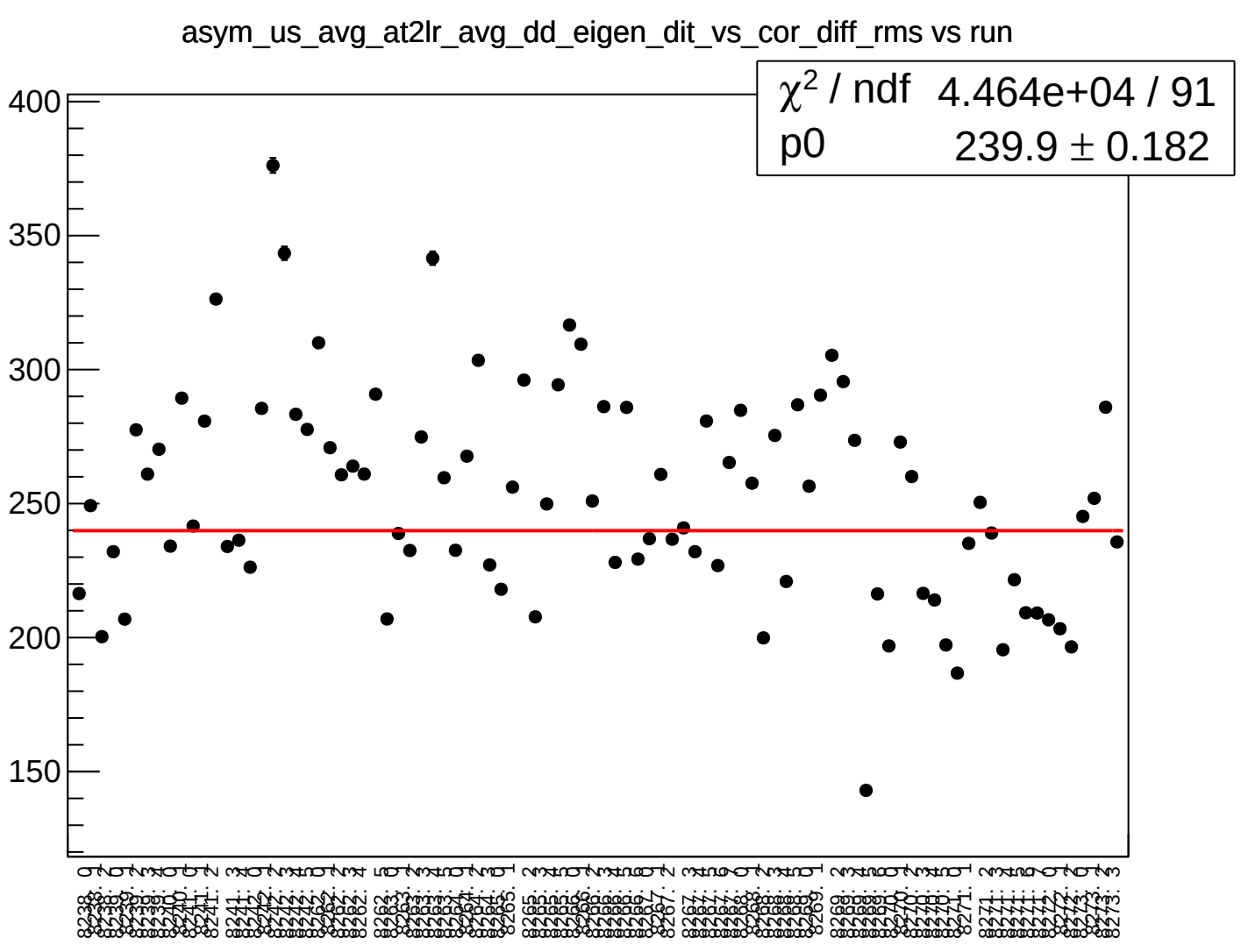

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 63.27 / 91
p0 1.653e−05 ± 7.96e−06
pull
Entries 92
Mean −102.5
Std Dev 0

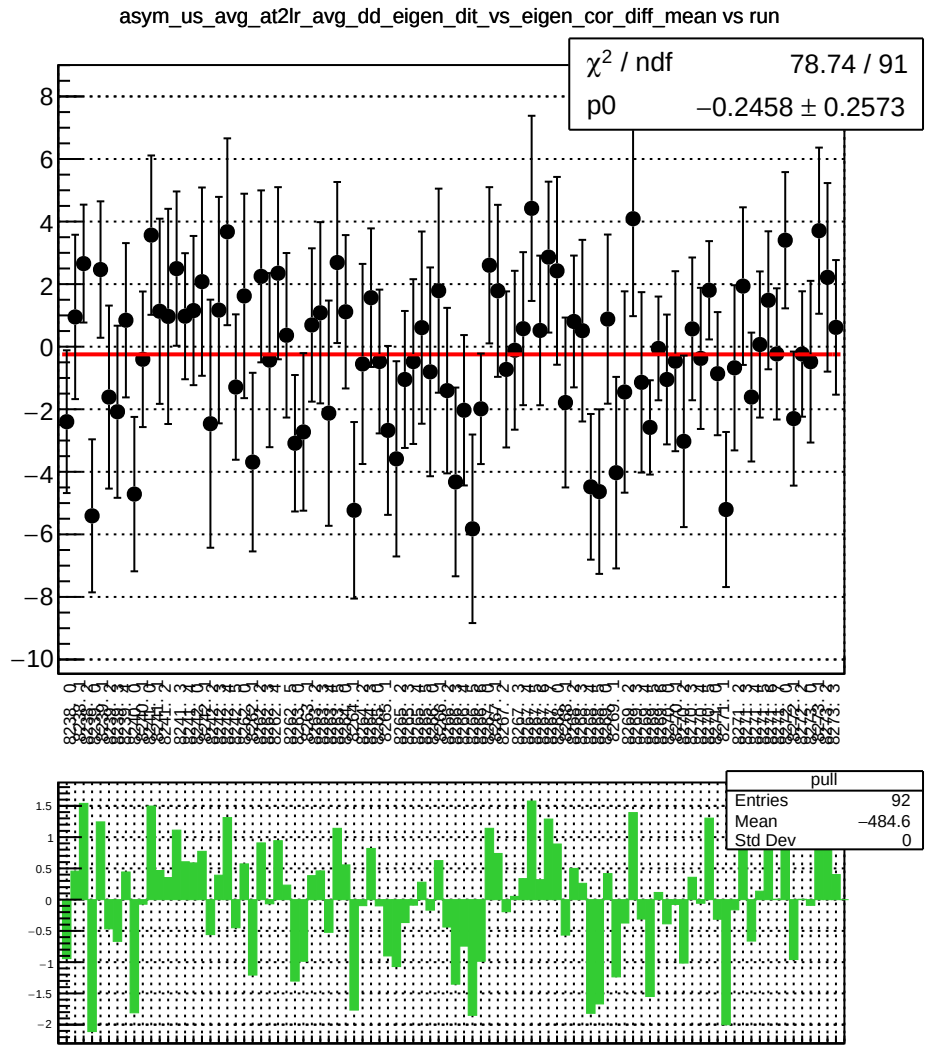

pull1D
Entries 92
Mean −0.01032
Std Dev 0.8292

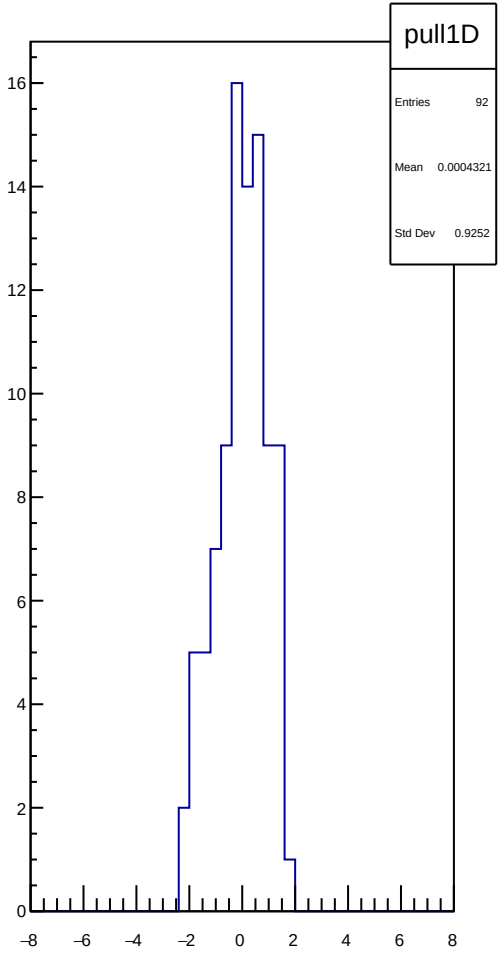

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.3e+04 / 91
p0 0.007488 ± 5.629e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

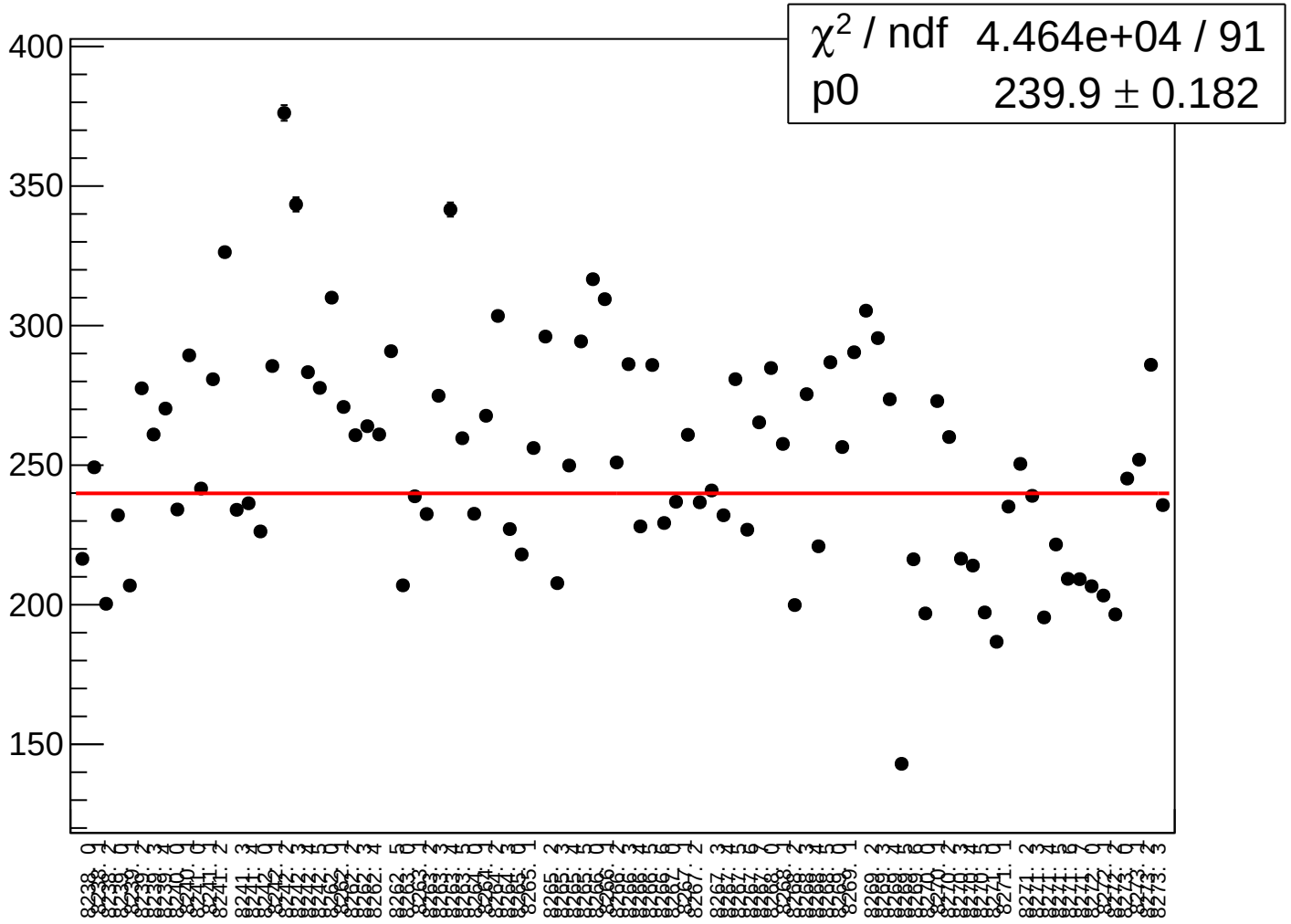

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.74 / 91
p0 −0.2458 ± 0.2573
pull
Entries 92
Mean −484.6
Std Dev 0

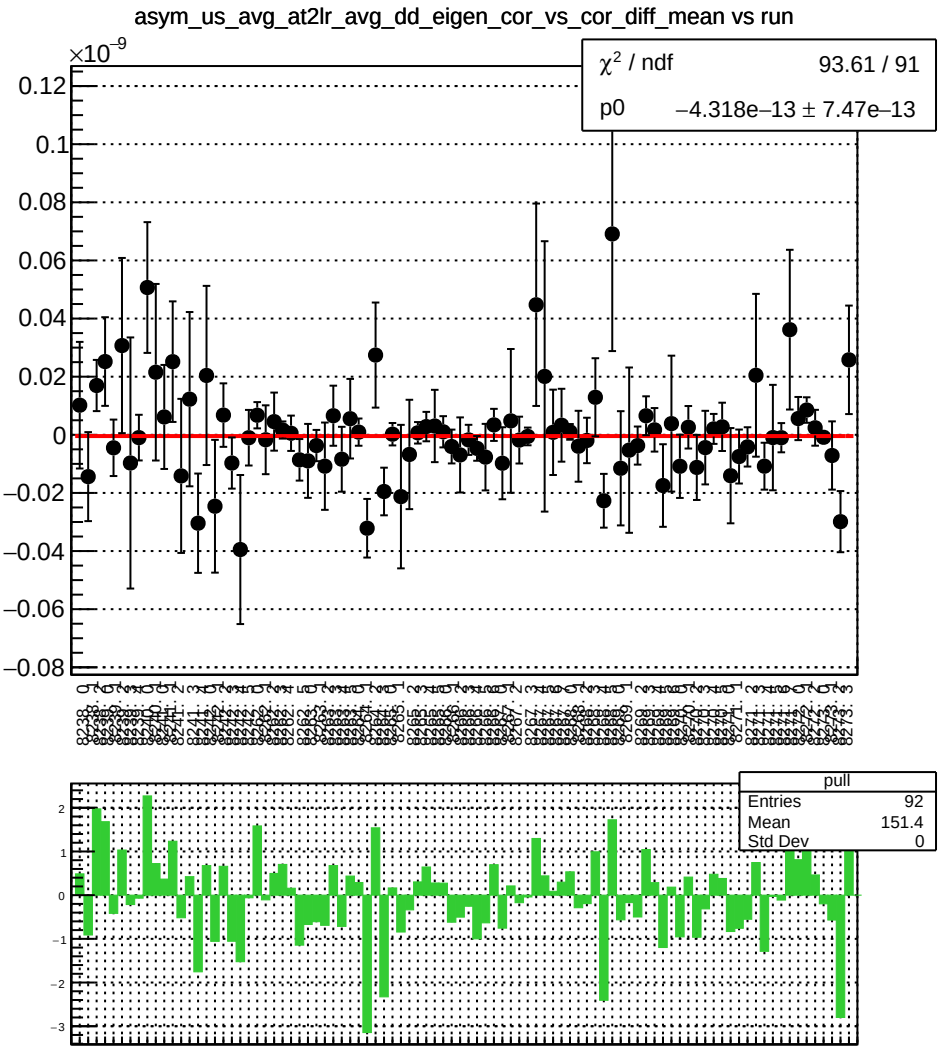

pull1D
Entries 92
Mean 0.0004321
Std Dev 0.9252

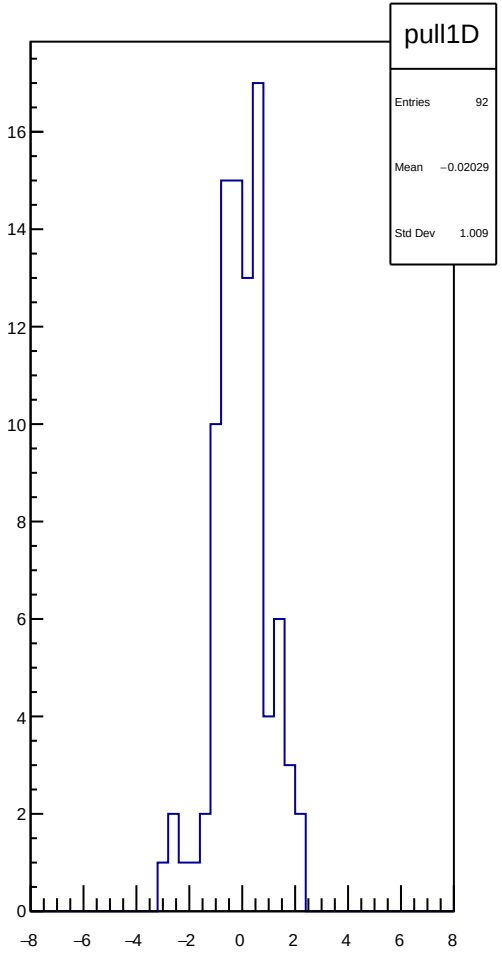

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.464e+04 / 91
p0 239.9 ± 0.182
400
350
300
250
200
150

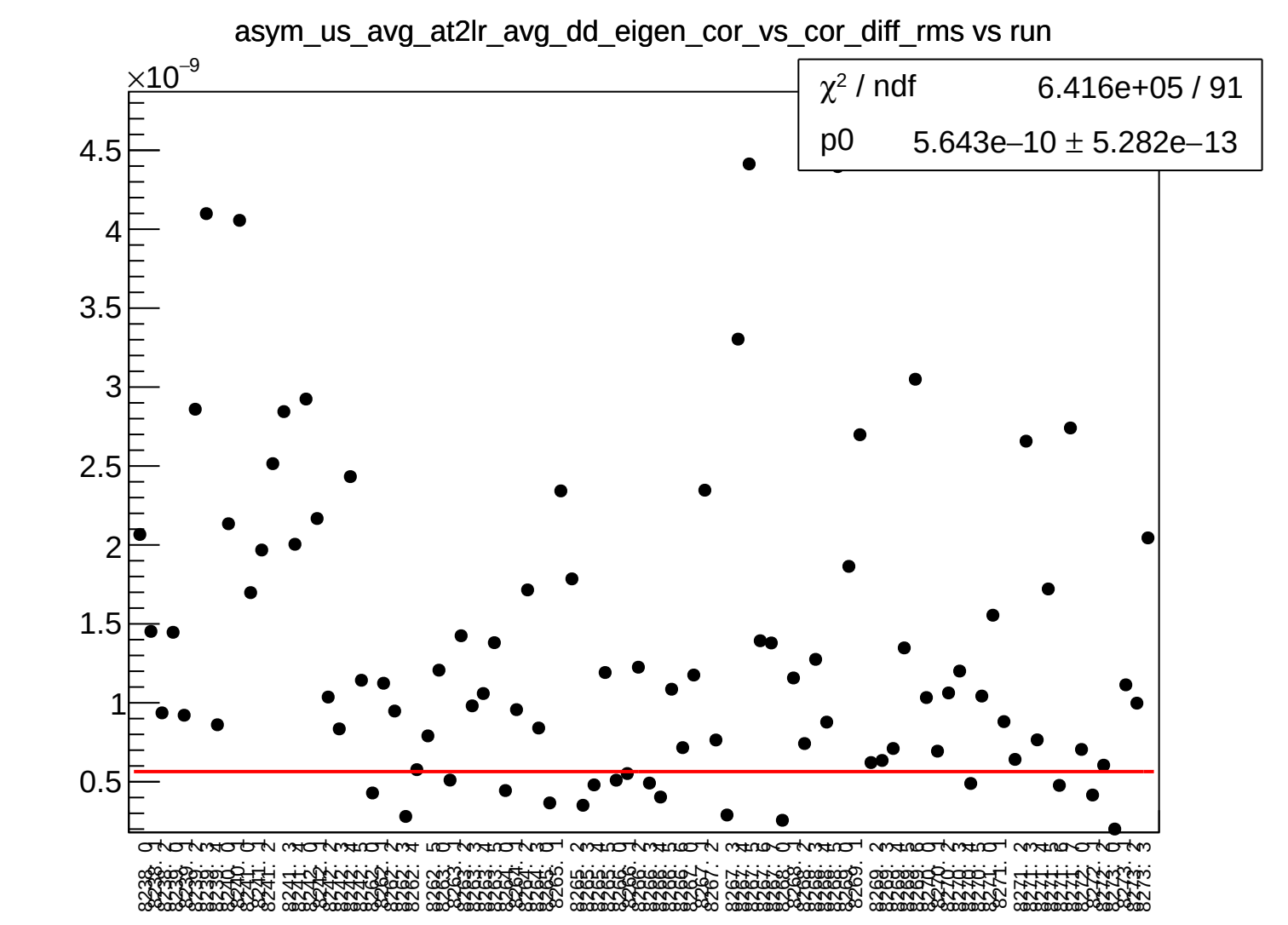

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.74 / 91
p0 −0.2458 ± 0.2573
pull
Entries 92
Mean −484.6
Std Dev 0

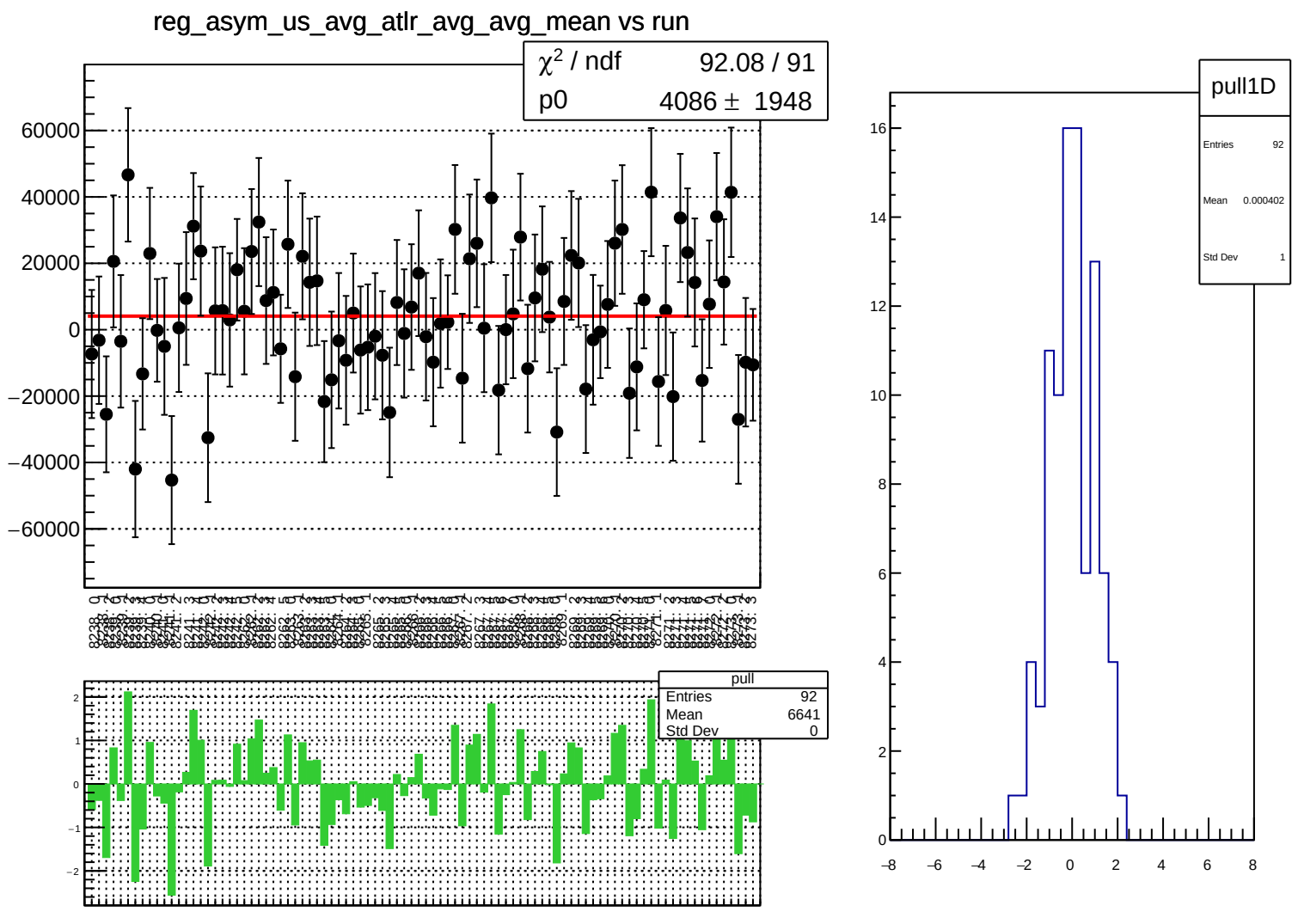

pull1D
Entries 92
Mean 0.0004321
Std Dev 0.9252

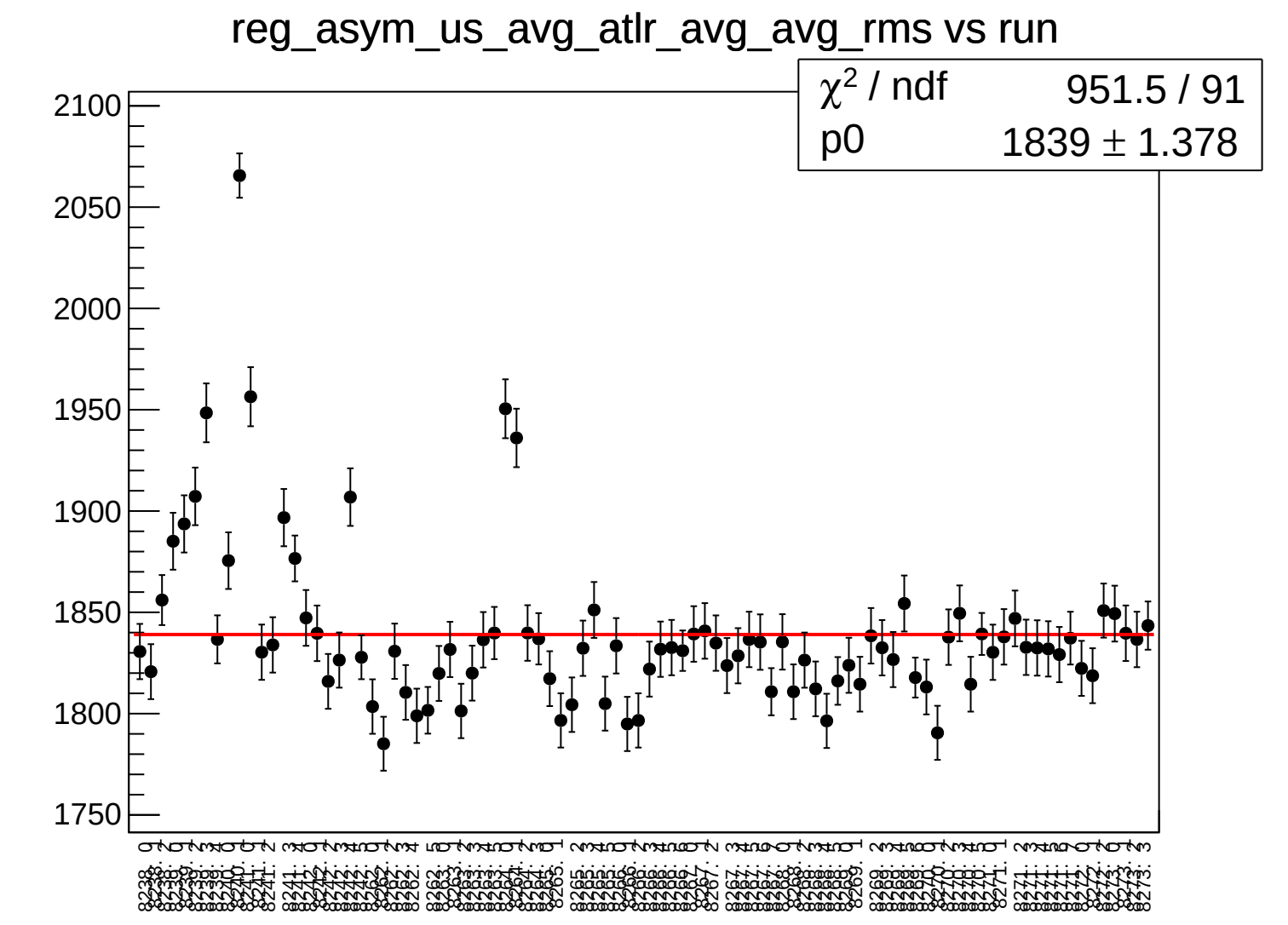

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.464e+04 / 91
p0 239.9 ± 0.182
400
350
300
250
200
150

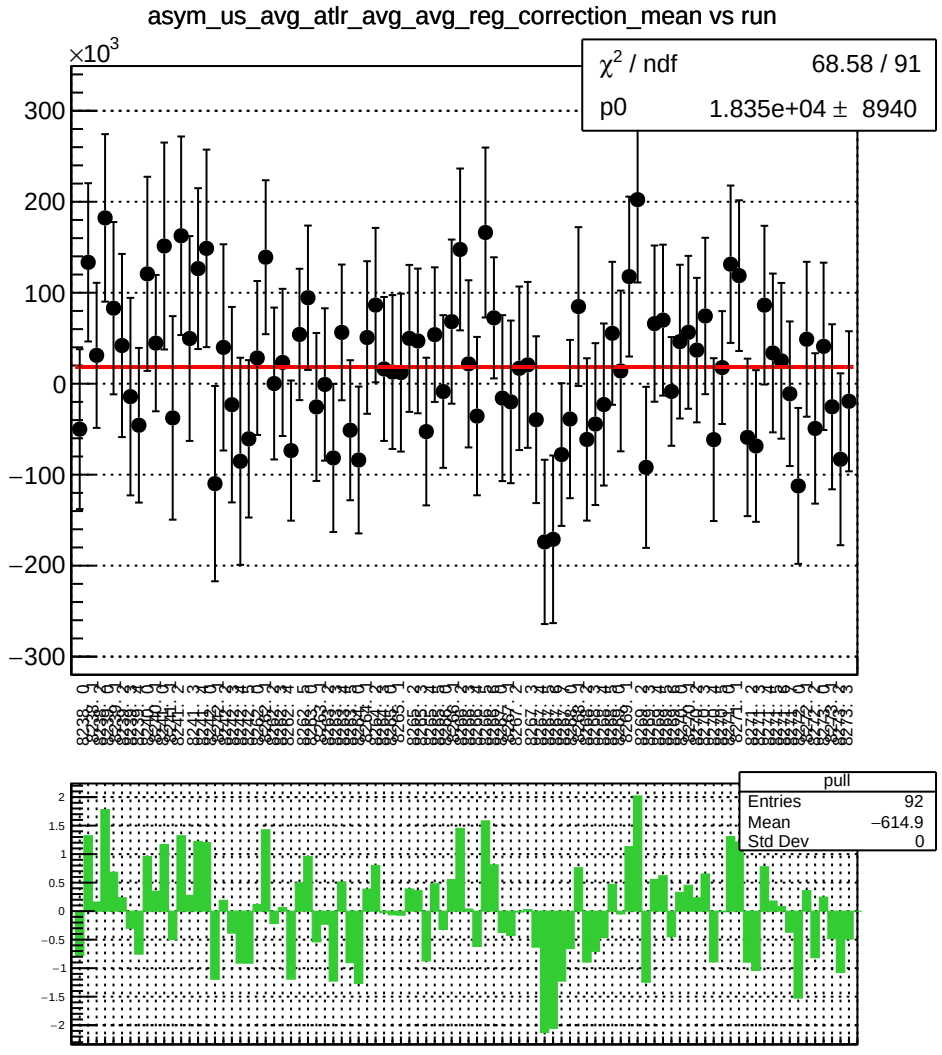

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 93.61 / 91
p0 −4.318e−13 ± 7.47e−13
pull
Entries 92
Mean 151.4
Std Dev 0

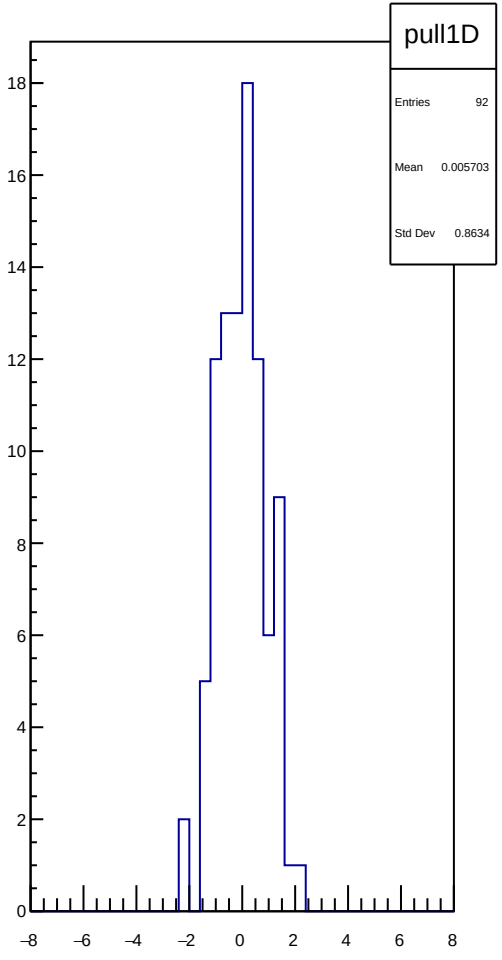

pull1D
Entries 92
Mean −0.02029
Std Dev 1.009

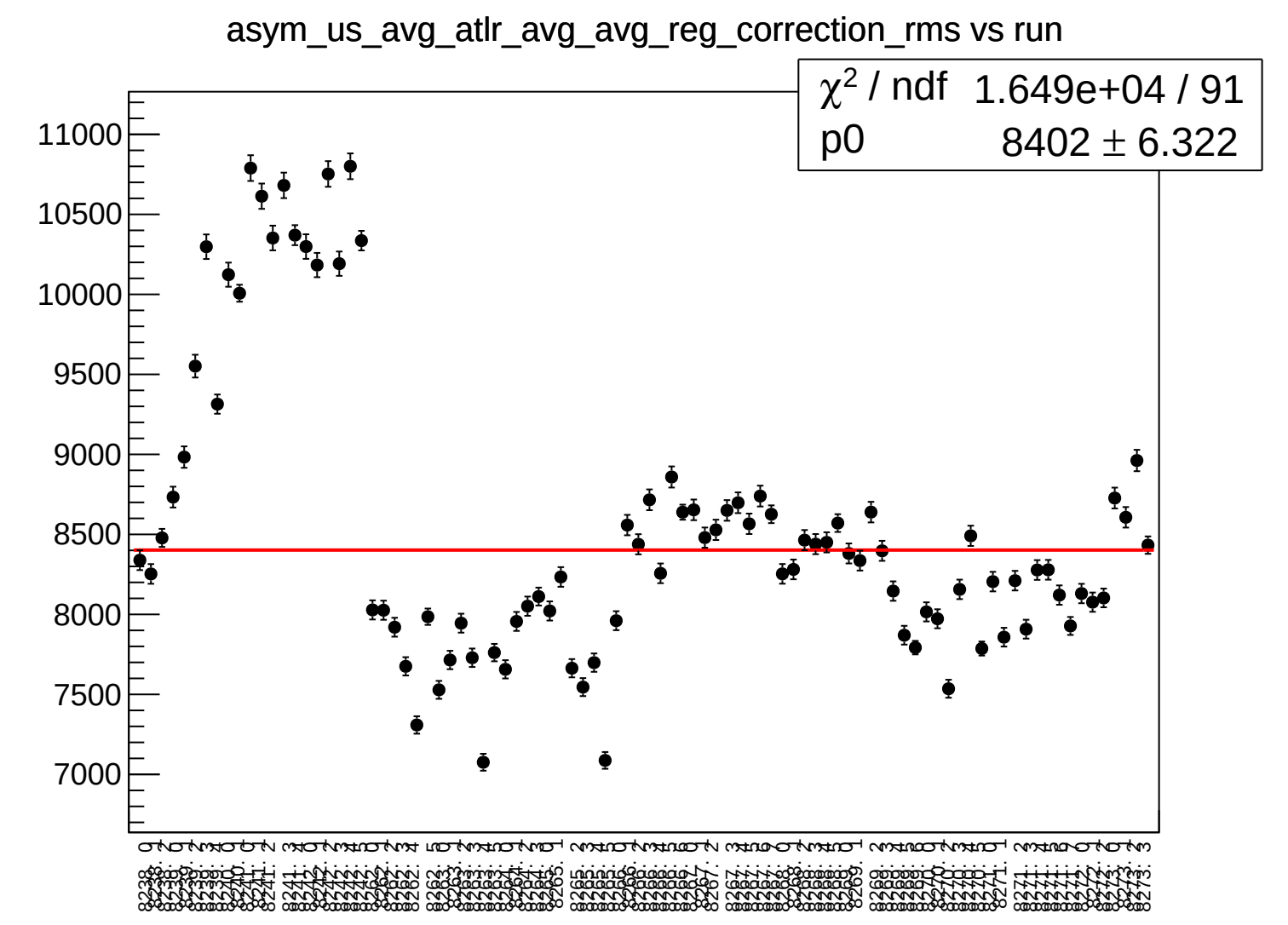

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.416e+05 / 91
p0 5.643e−10 ± 5.282e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

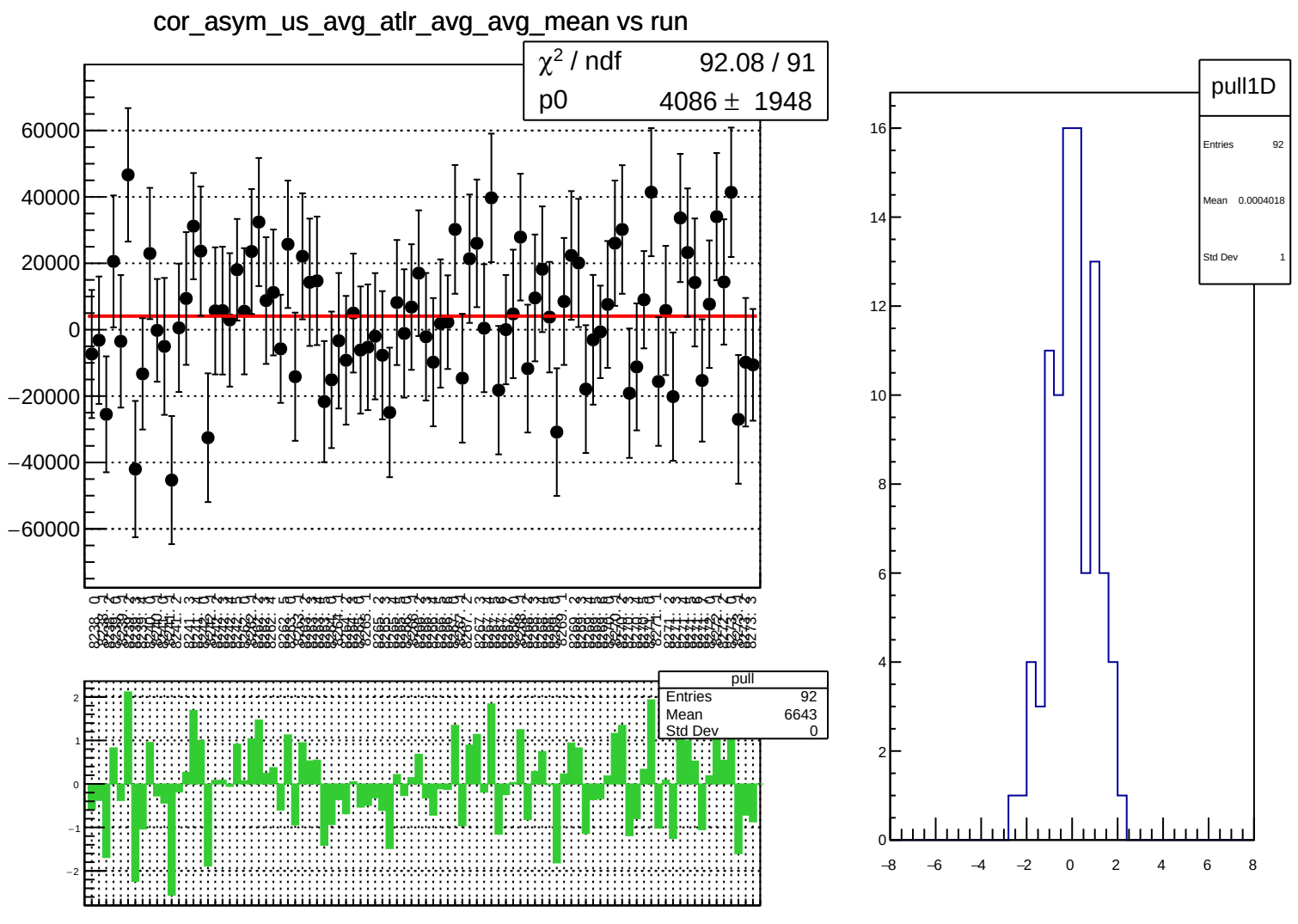

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 92.08 / 91
p0 4086 ± 1948
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 6641
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.000402
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

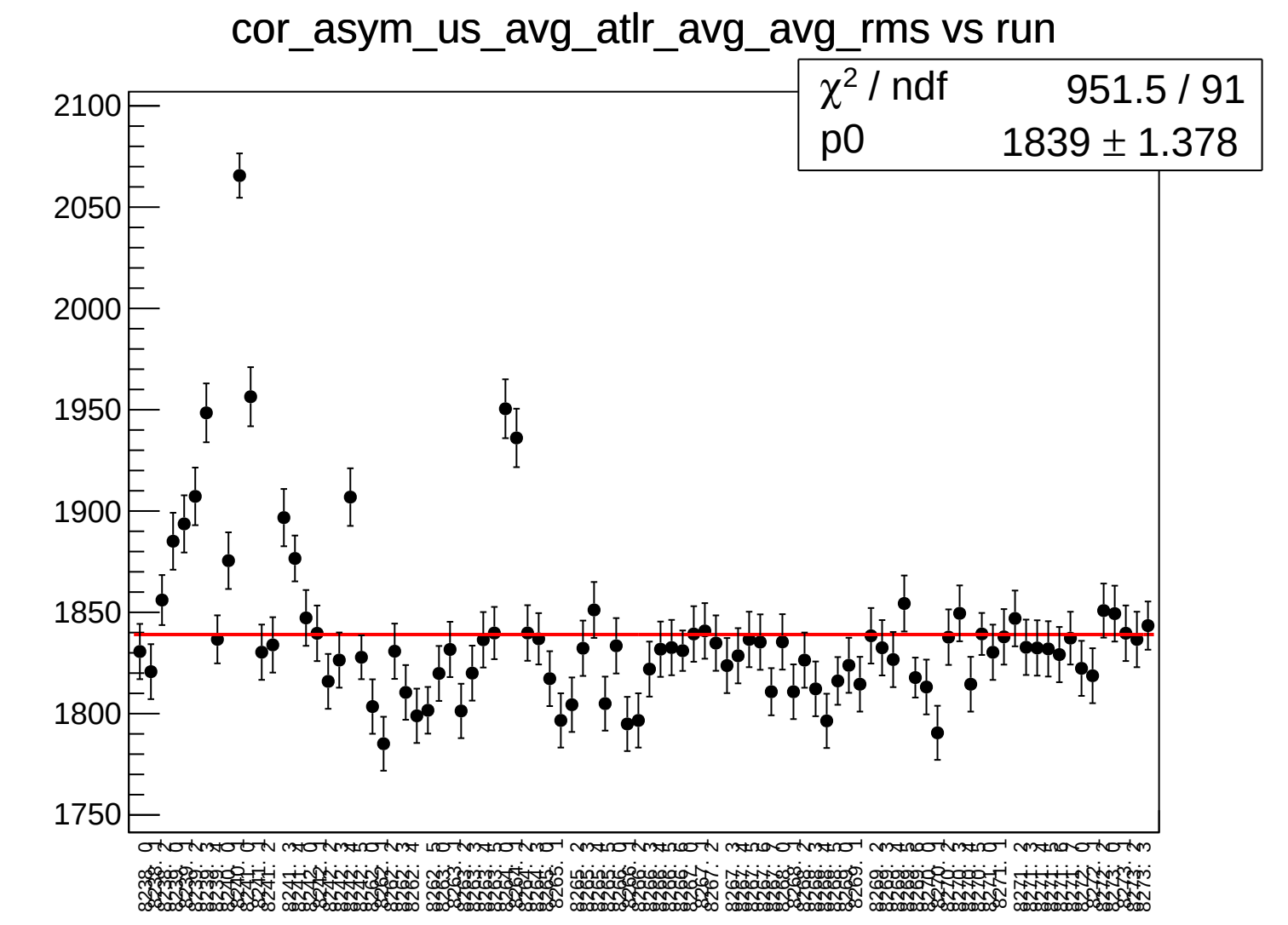

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 951.5 / 91
p0 1839 ± 1.378
2100
2050
2000
1950
1900
1850
1800
1750

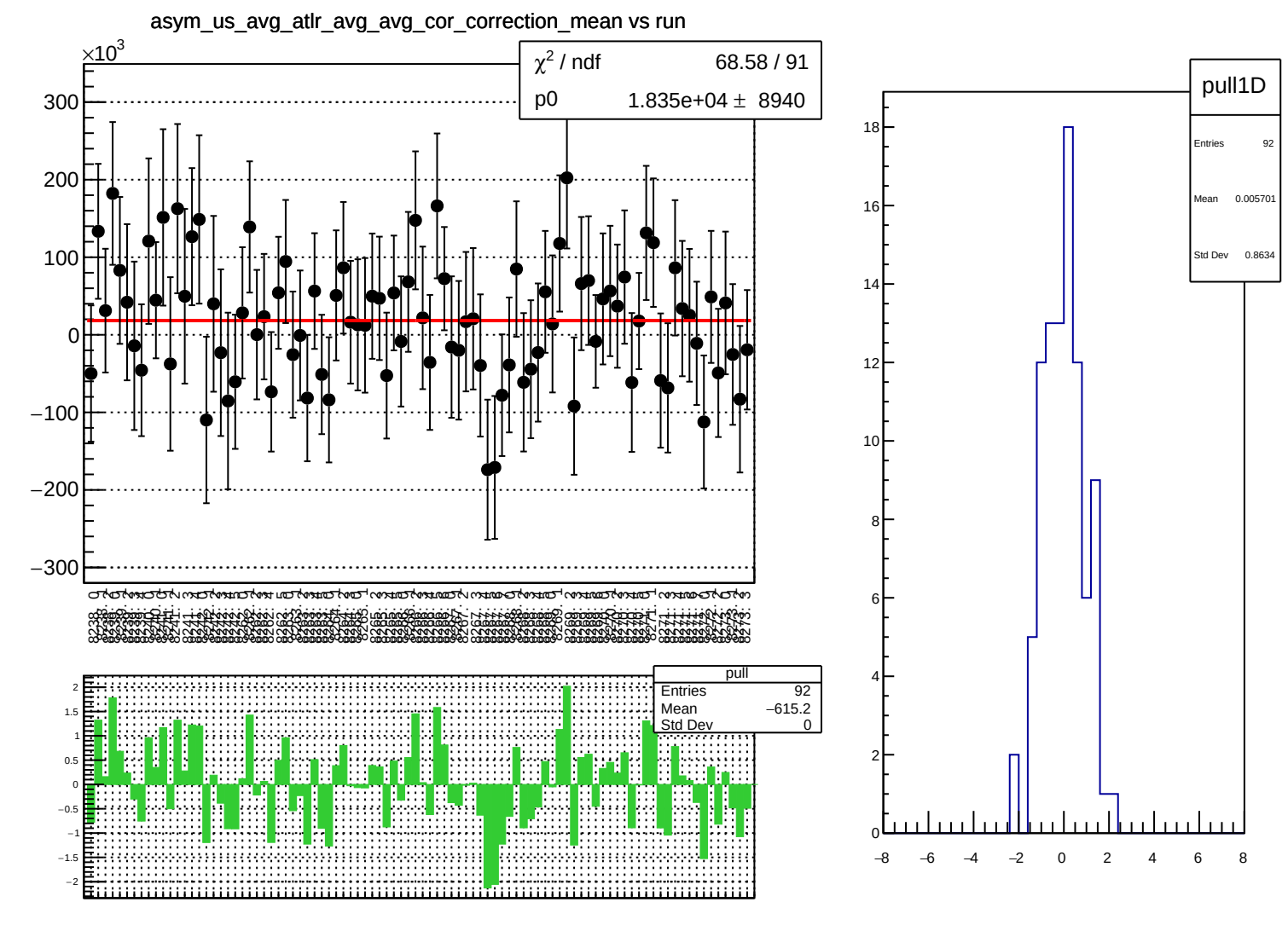

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 68.58 / 91
p0 1.835e+04 ± 8940
pull
Entries 92
Mean −614.9
Std Dev 0

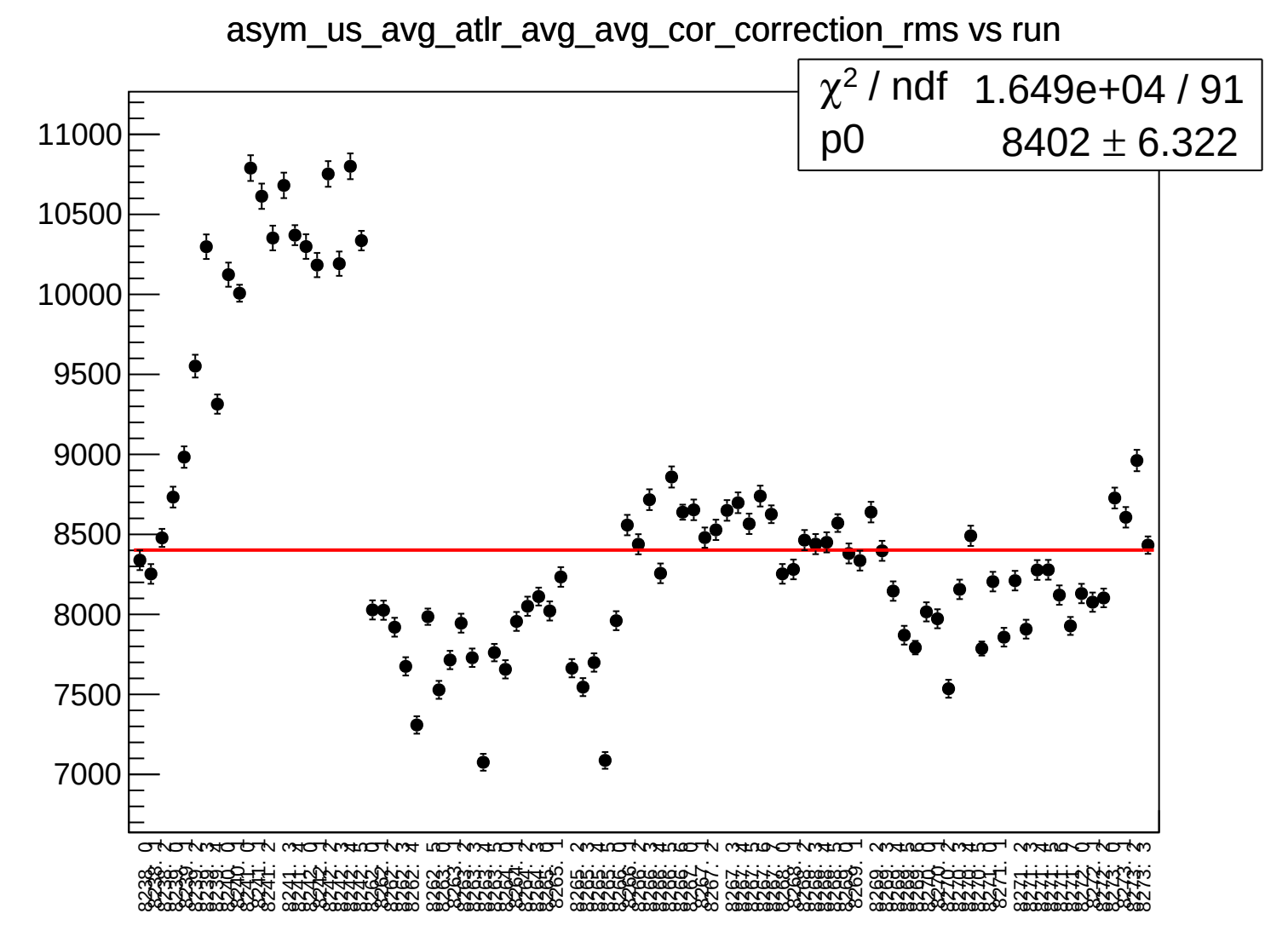

pull1D
Entries 92
Mean 0.005703
Std Dev 0.8634

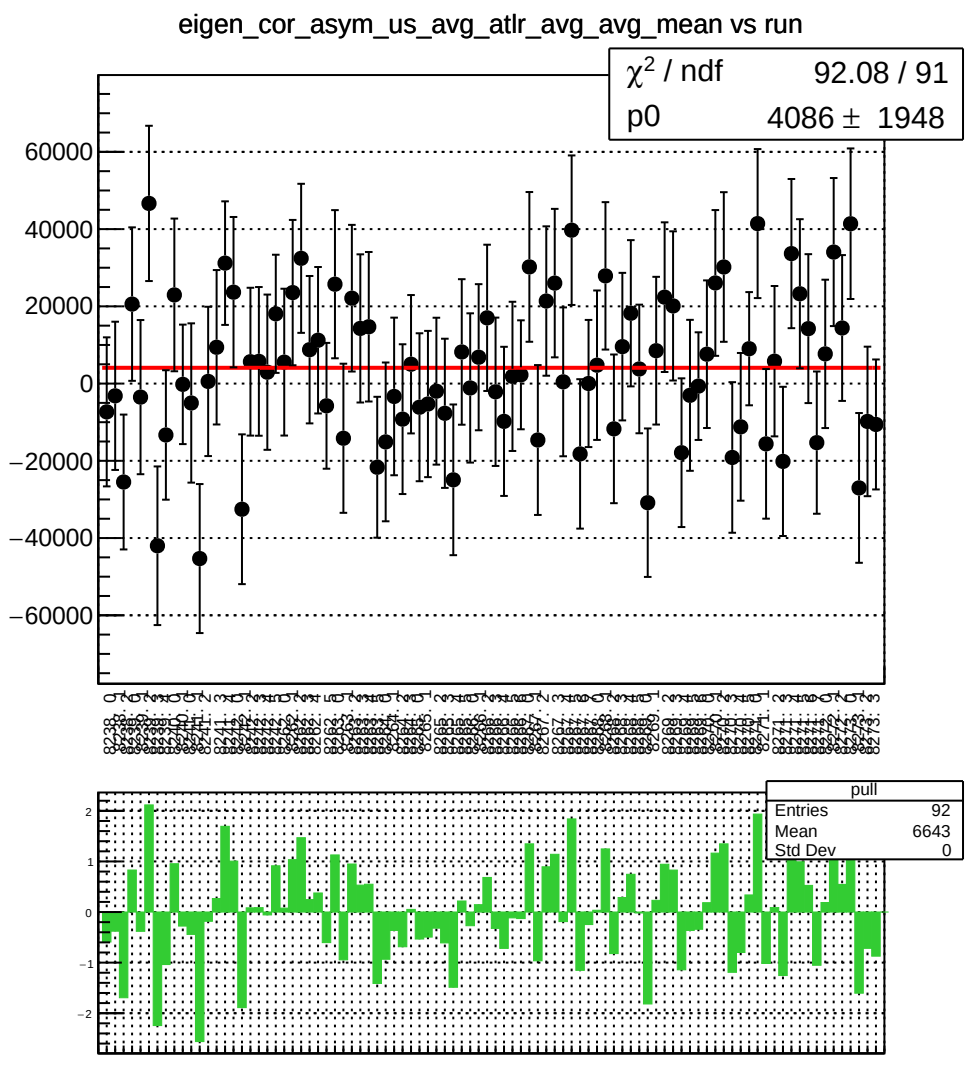

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.649e+04 / 91
p0 8402 ± 6.322
11000
10500
10000
9500
9000
8500
8000
7500
7000

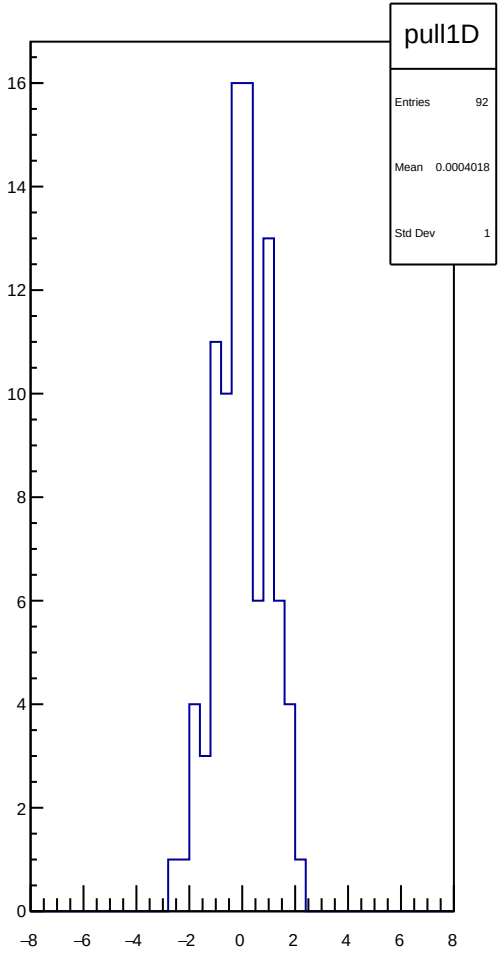

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 92.08 / 91
p0 4086 ± 1948
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 6643
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0004018
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

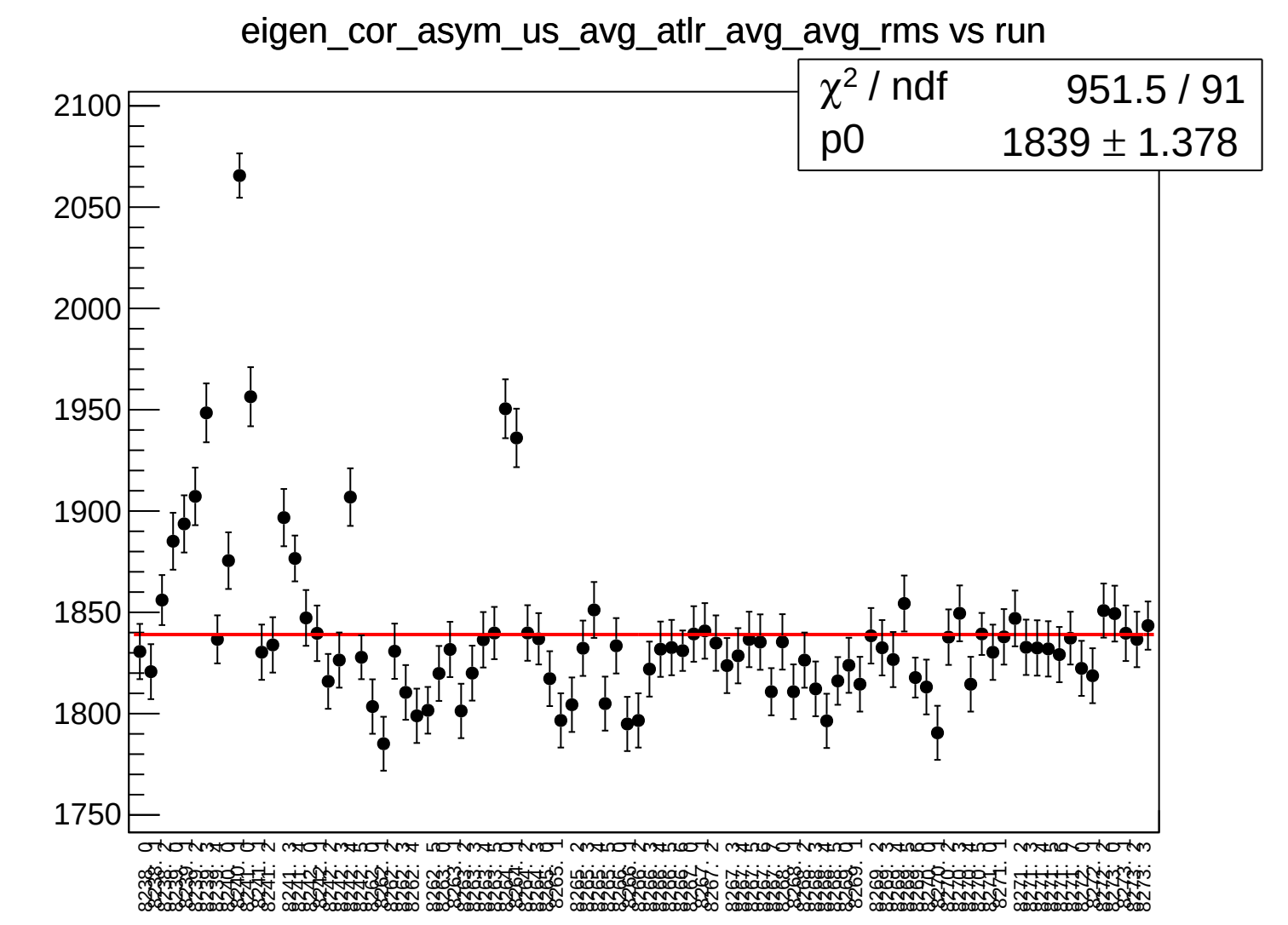

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 951.5 / 91
p0 1839 ± 1.378
2100
2050
2000
1950
1900
1850
1800
1750

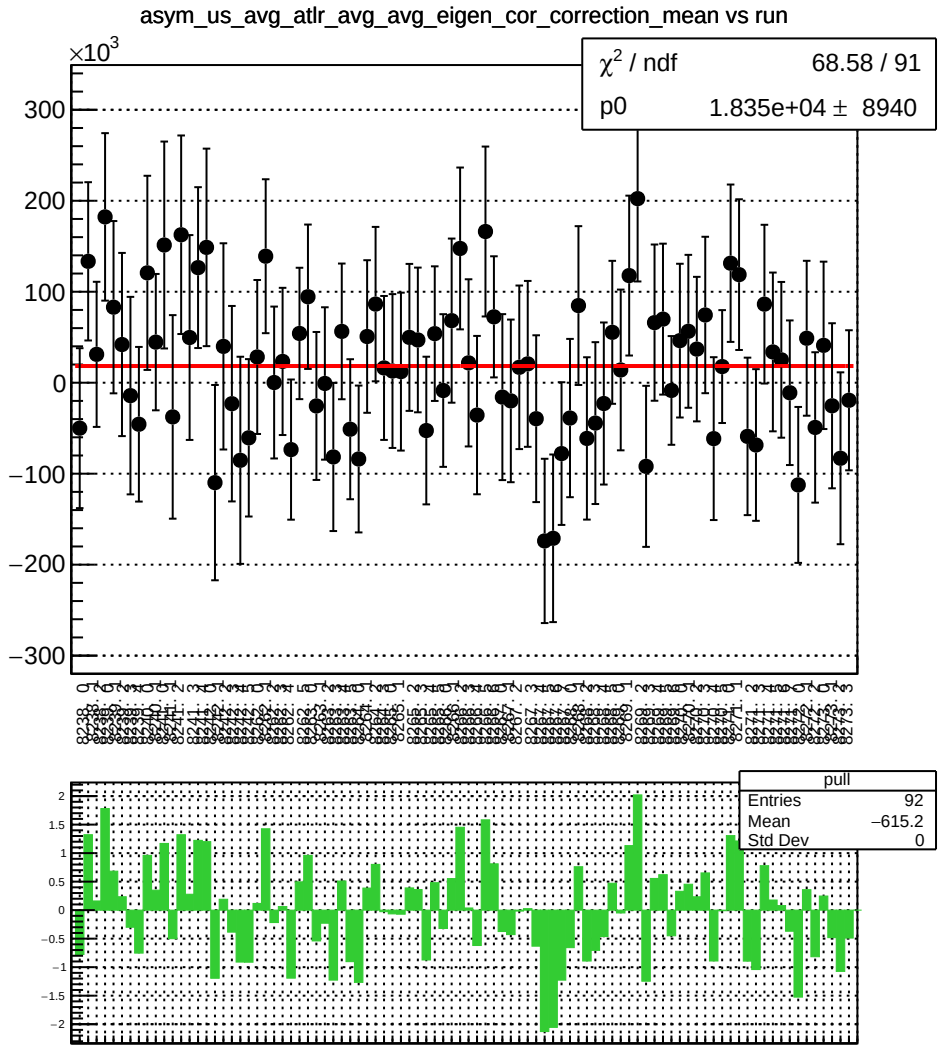

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 68.58 / 91
p0 1.835e+04 ± 8940
pull
Entries 92
Mean −615.2
Std Dev 0
pull1D
Entries 92
Mean 0.005701
Std Dev 0.8634

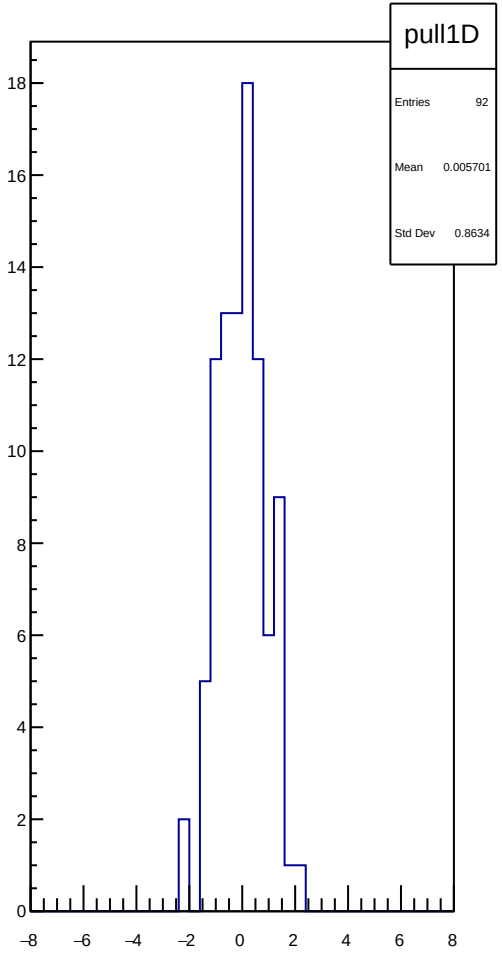

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.649e+04 / 91
p0 8402 ± 6.322
11000
10500
10000
9500
9000
8500
8000
7500
7000

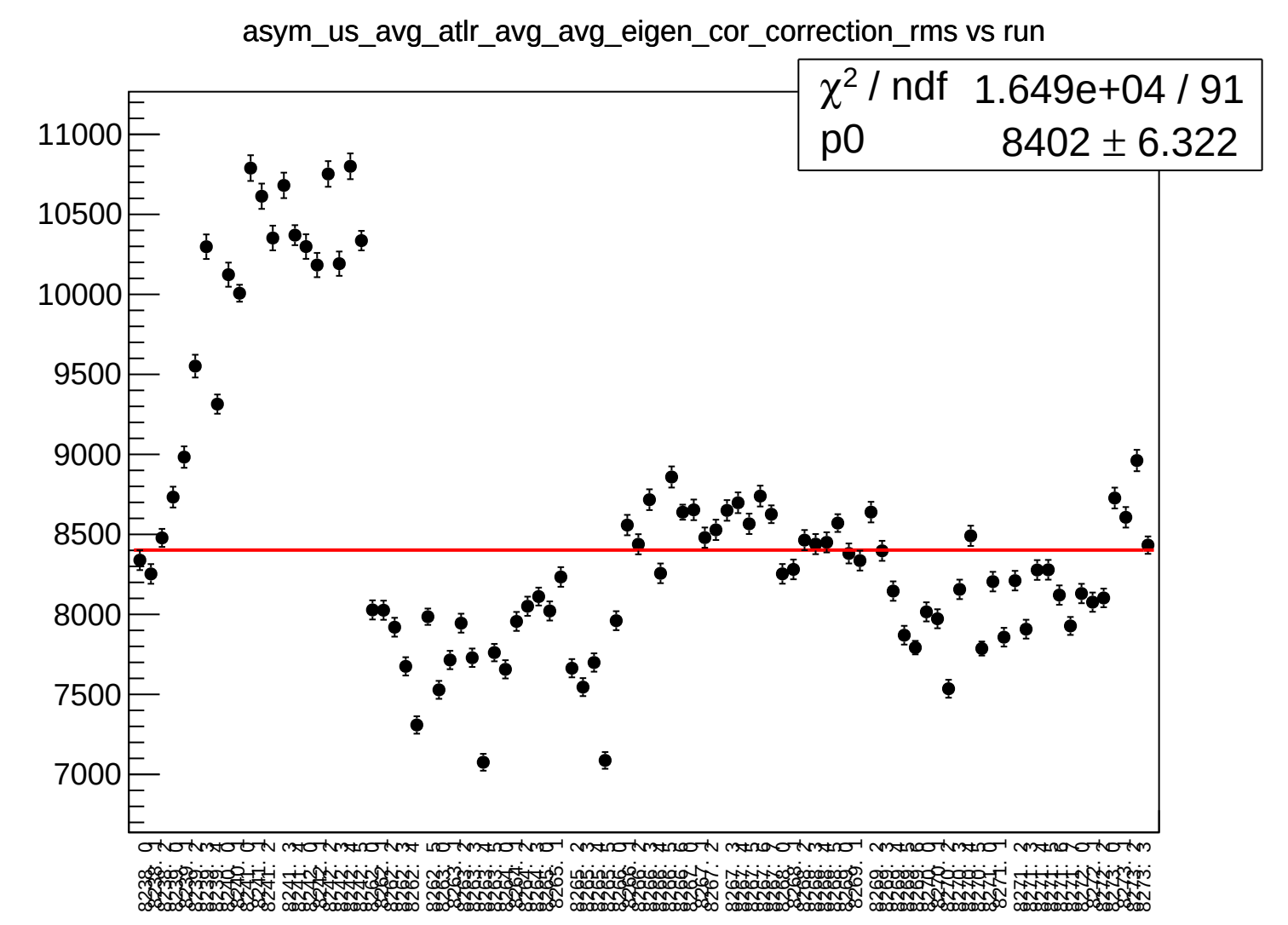

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 92.08 / 91
p0 4086 ± 1948
pull
Entries 92
Mean 6643
Std Dev 0

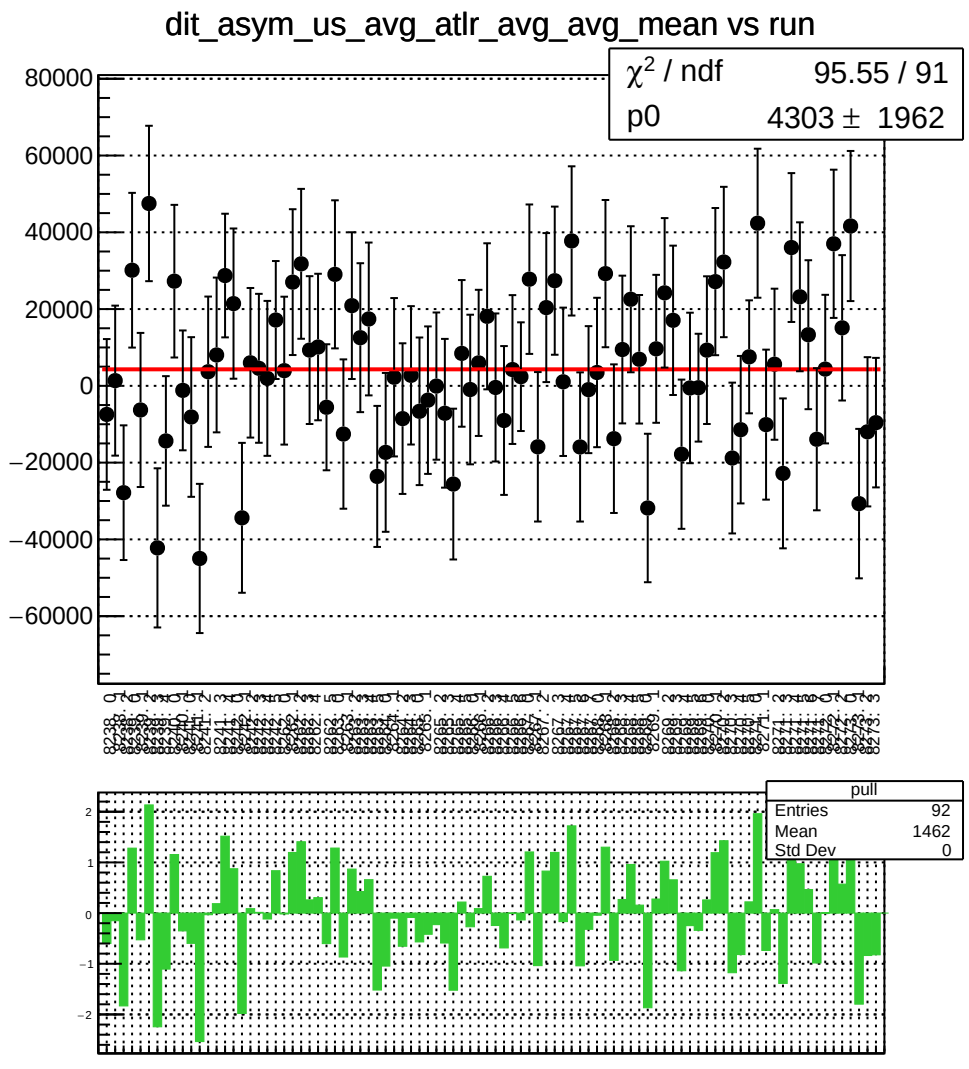

pull1D
Entries 92
Mean 0.0004018
Std Dev 1

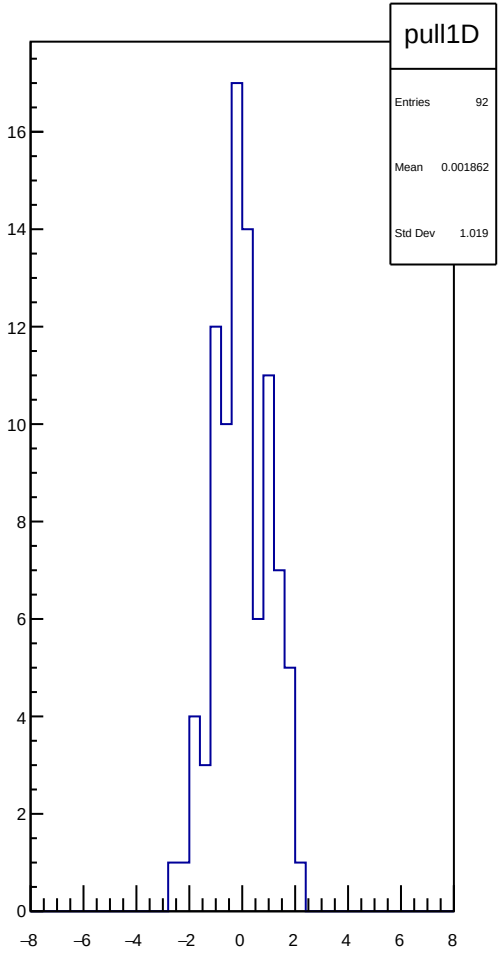

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 951.5 / 91
p0 1839 ± 1.378
2100
2050
2000
1950
1900
1850
1800
1750

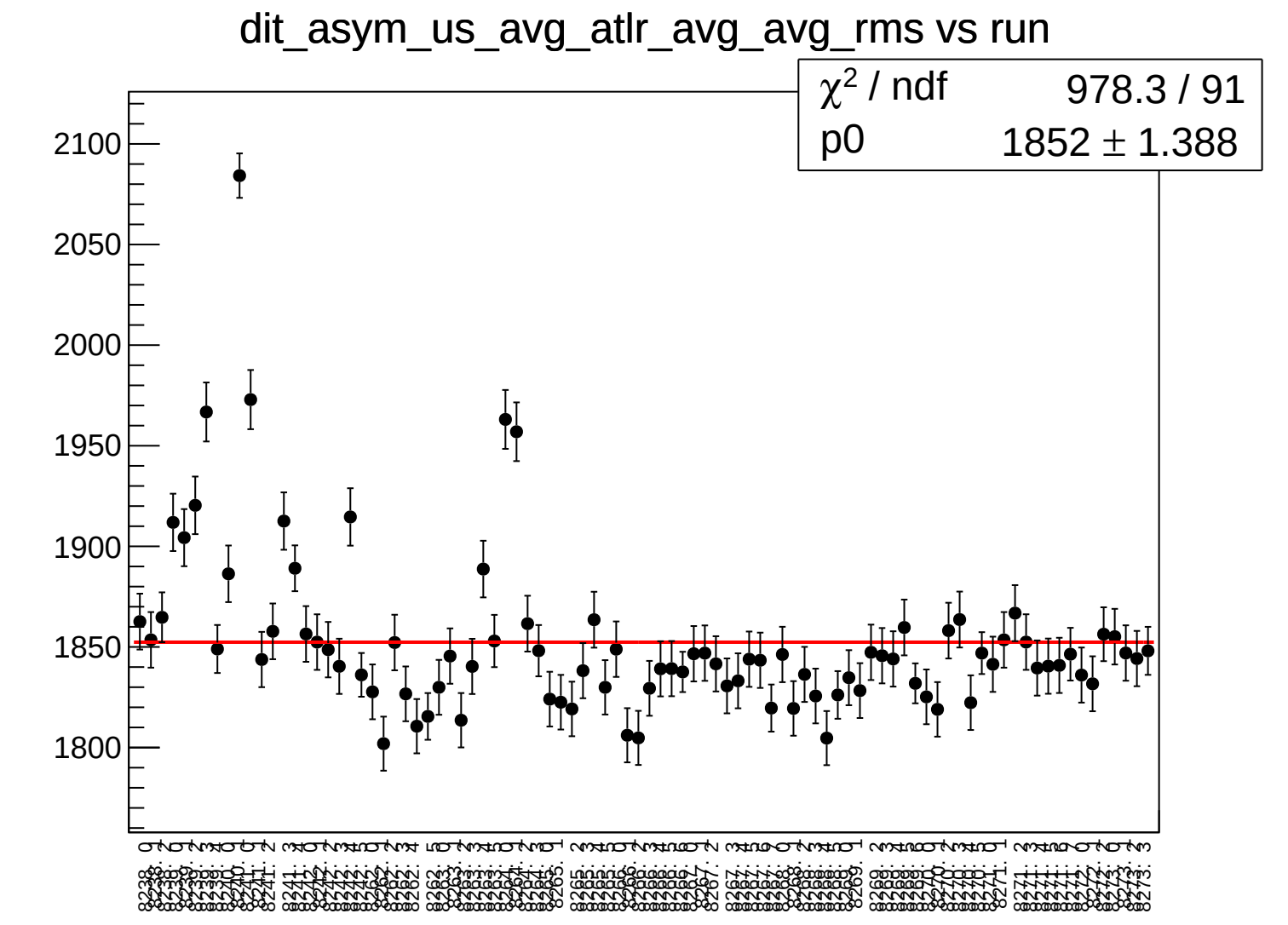

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 68.58 / 91
p0 1.835e+04 ± 8940
pull
Entries 92
Mean −615.2
Std Dev 0

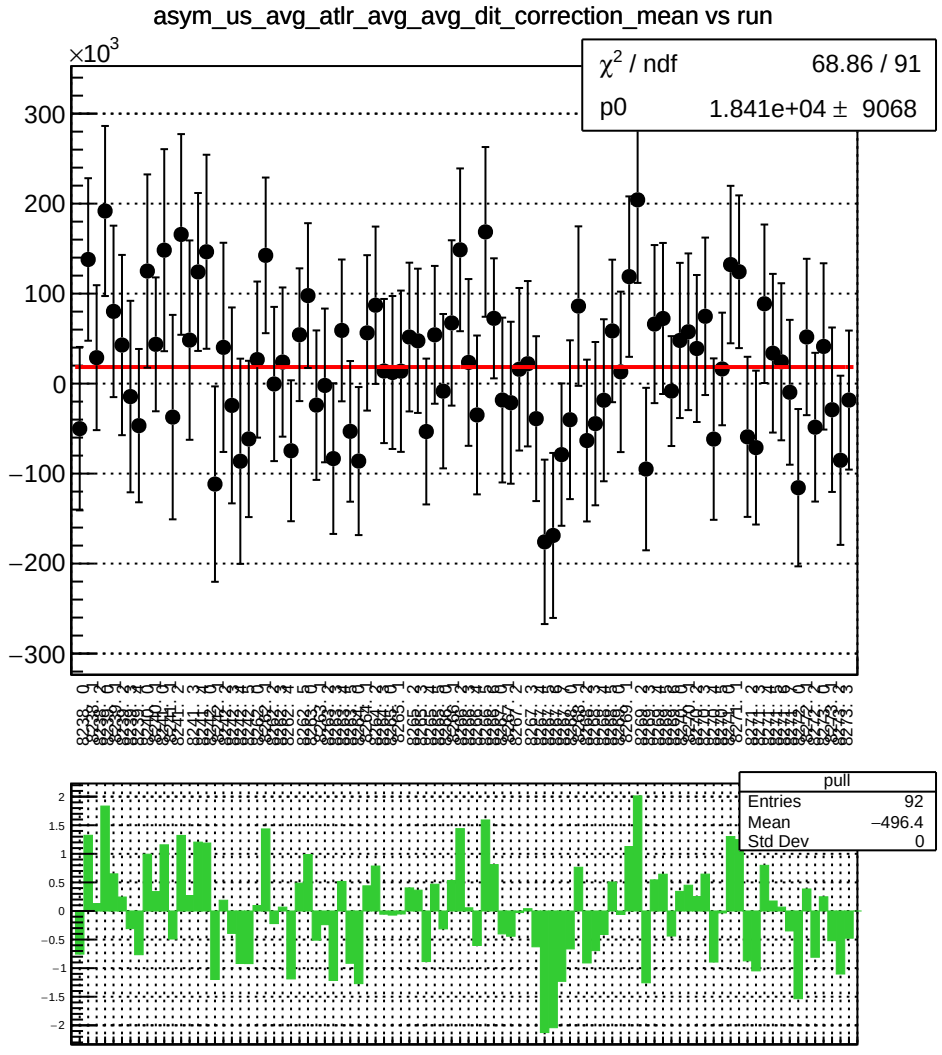

pull1D
Entries 92
Mean 0.005701
Std Dev 0.8634

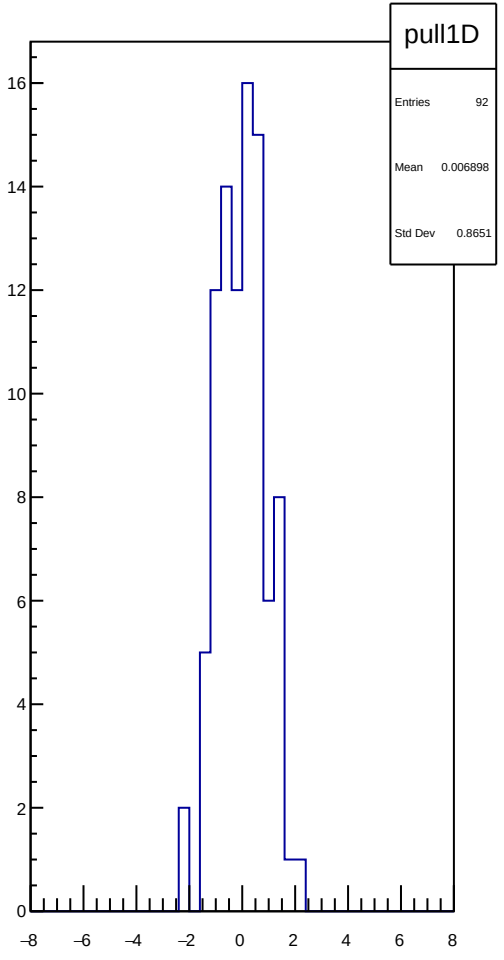

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.649e+04 / 91
p0 8402 ± 6.322
11000
10500
10000
9500
9000
8500
8000
7500
7000

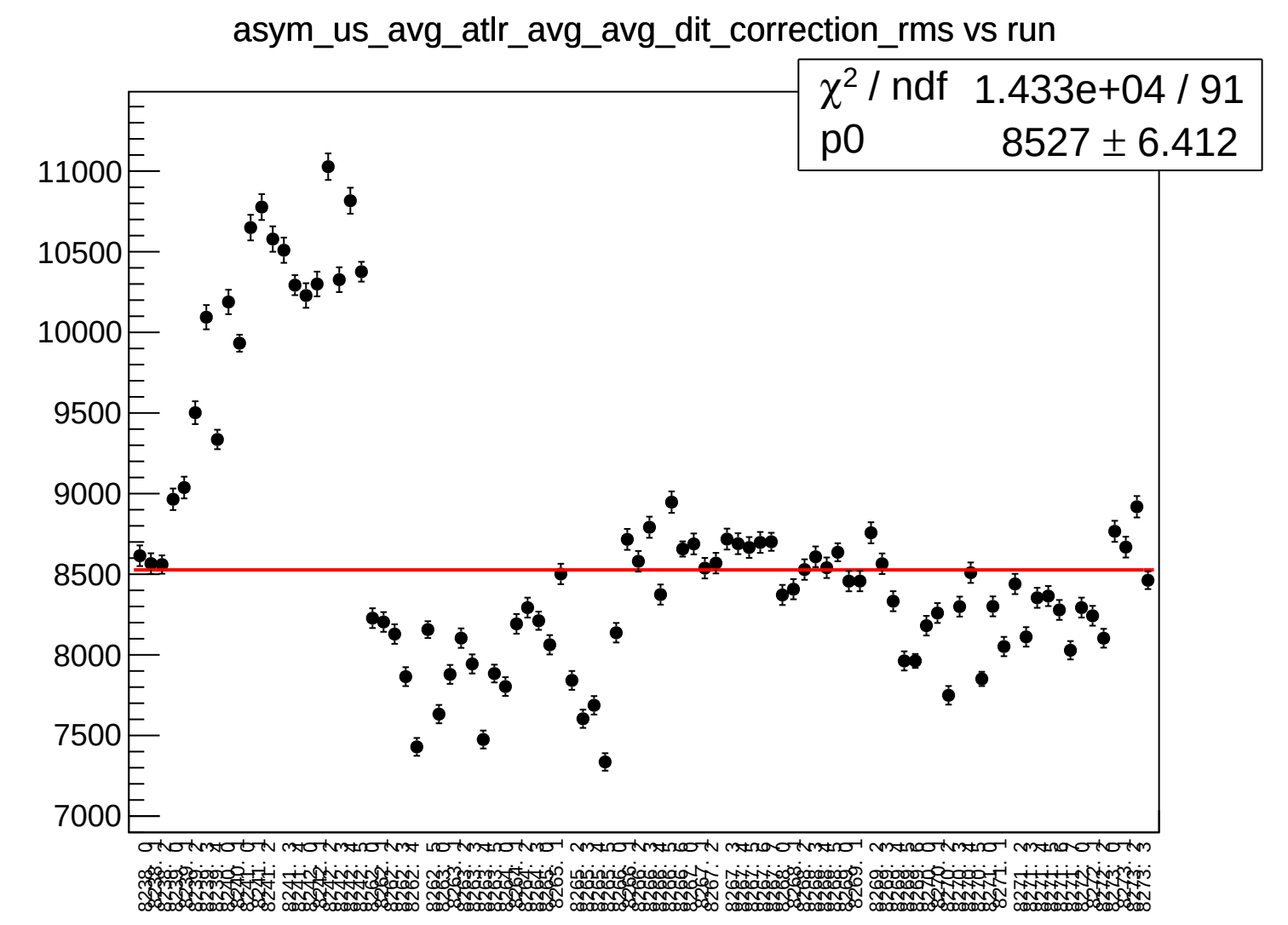

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 95.55 / 91
p0 4303 ± 1962
pull
Entries 92
Mean 1462
Std Dev 0

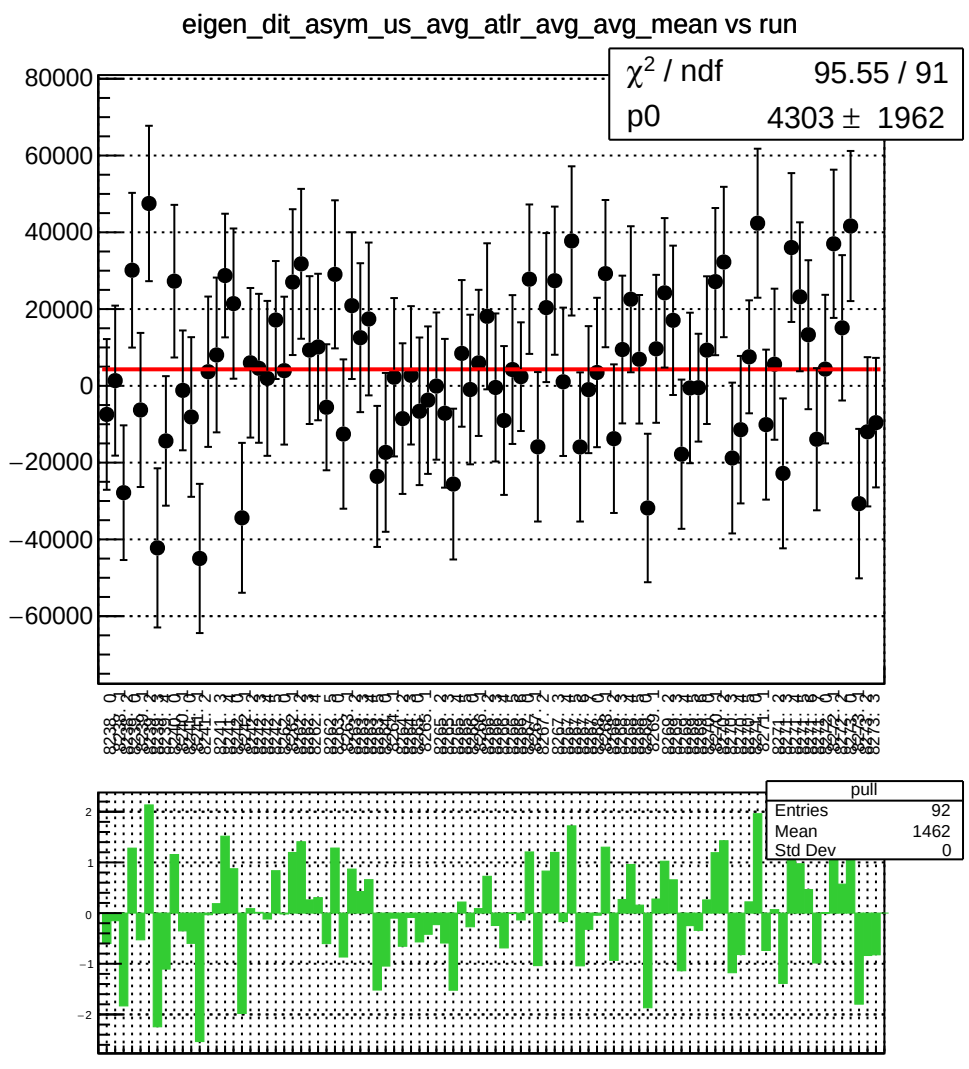

pull1D
Entries 92
Mean 0.001862
Std Dev 1.019

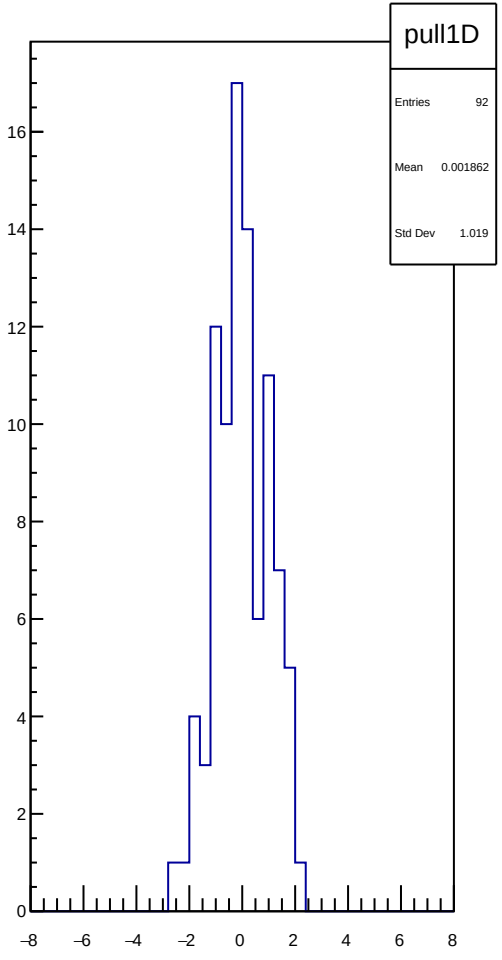

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 978.3 / 91
p0 1852 ± 1.388
2100
2050
2000
1950
1900
1850
1800

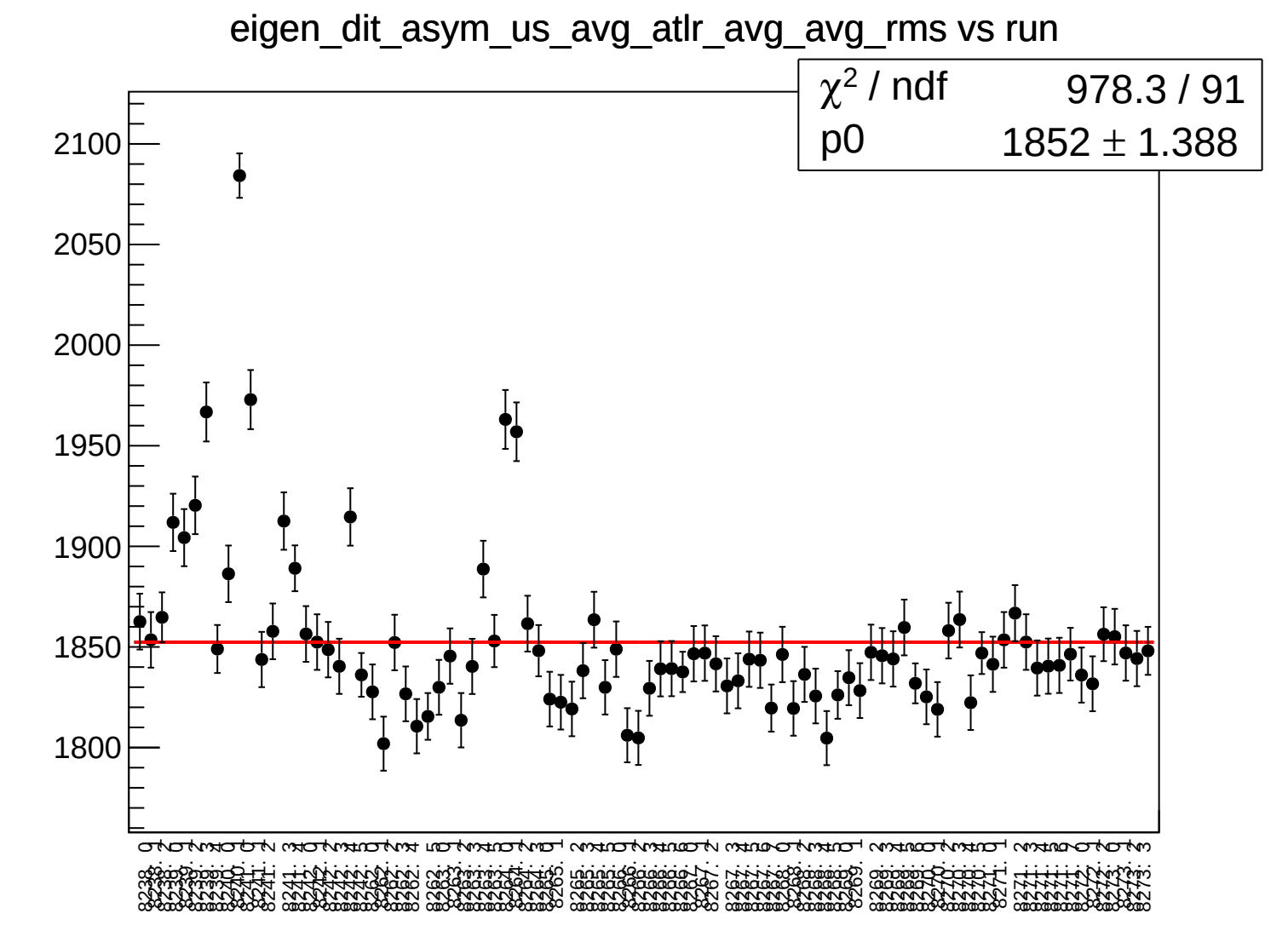

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 68.86 / 91
p0 1.841e+04 ± 9068
pull
Entries 92
Mean −496.4
Std Dev 0

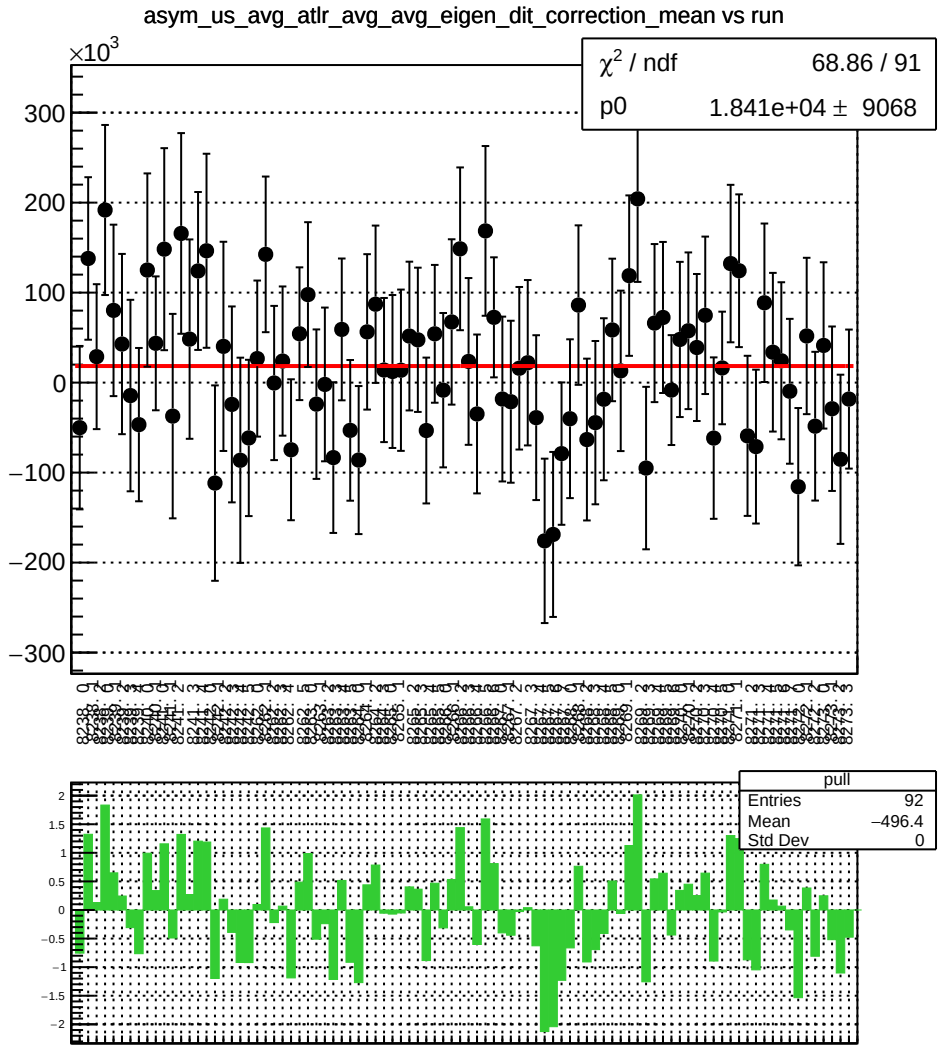

pull1D
Entries 92
Mean 0.006898
Std Dev 0.8651

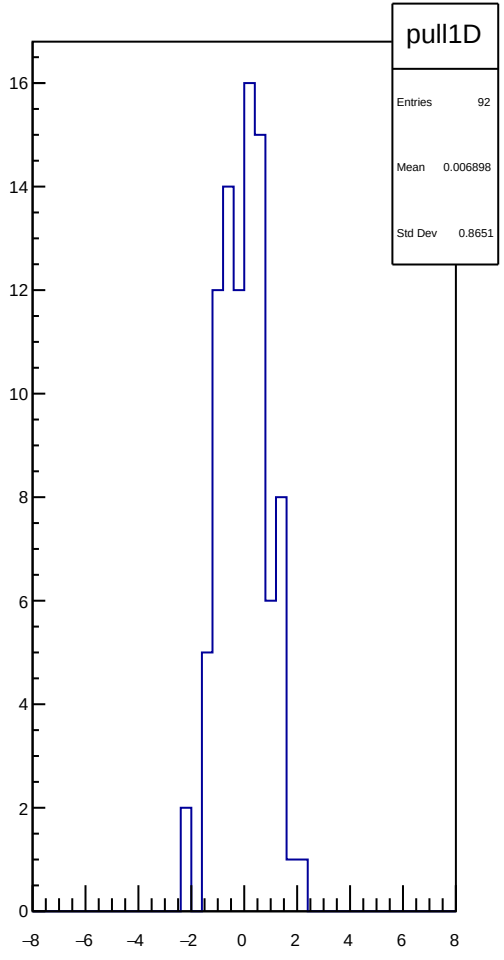

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
$\chi^2$ / ndf 1.433e+04 / 91
p0 8527 ± 6.412
11000
10500
10000
9500
9000
8500
8000
7500
7000

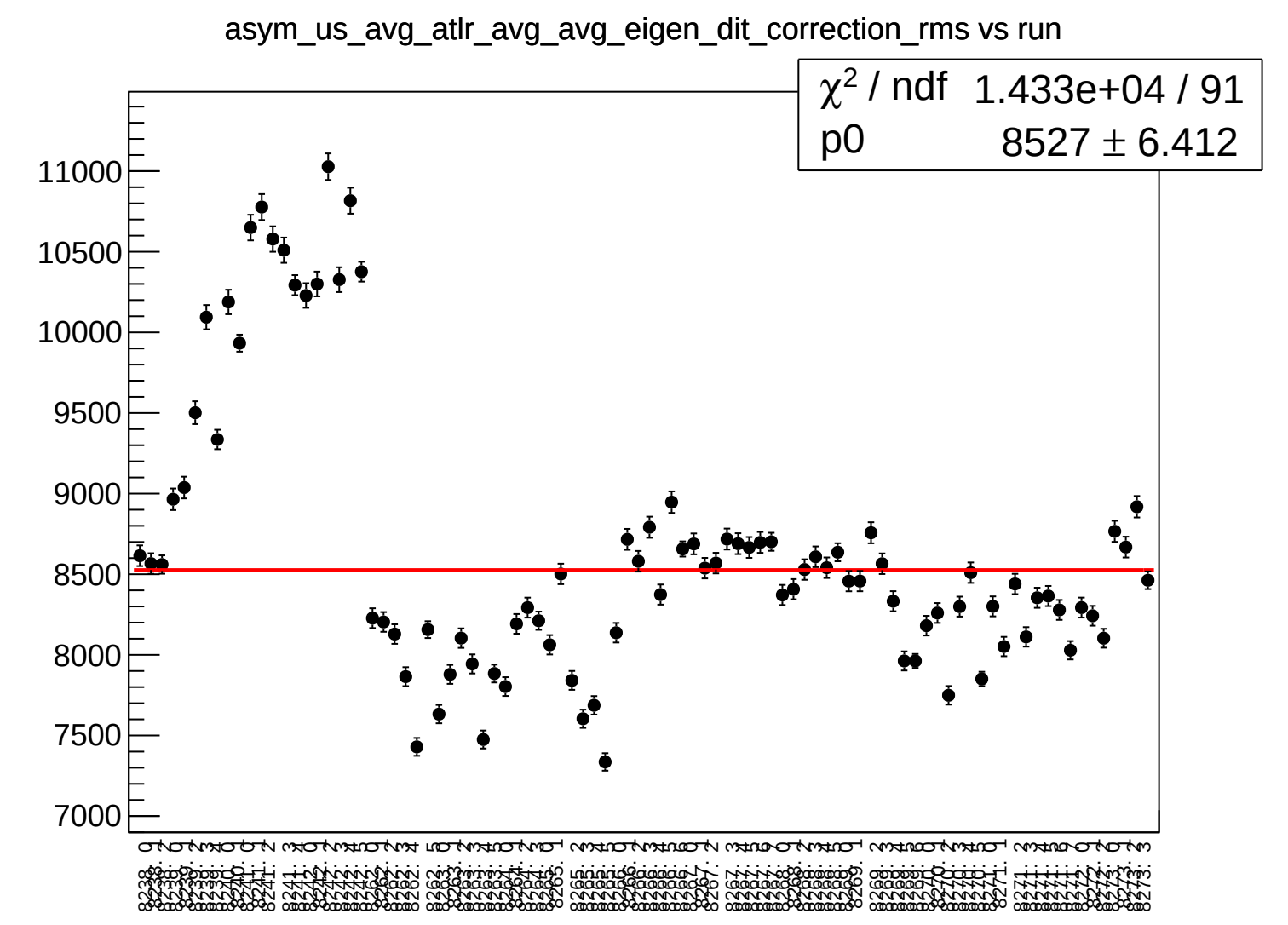

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 95.55 / 91
p0 4303 ± 1962
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 1462
Std Dev 0
2
1
0
−1
−2

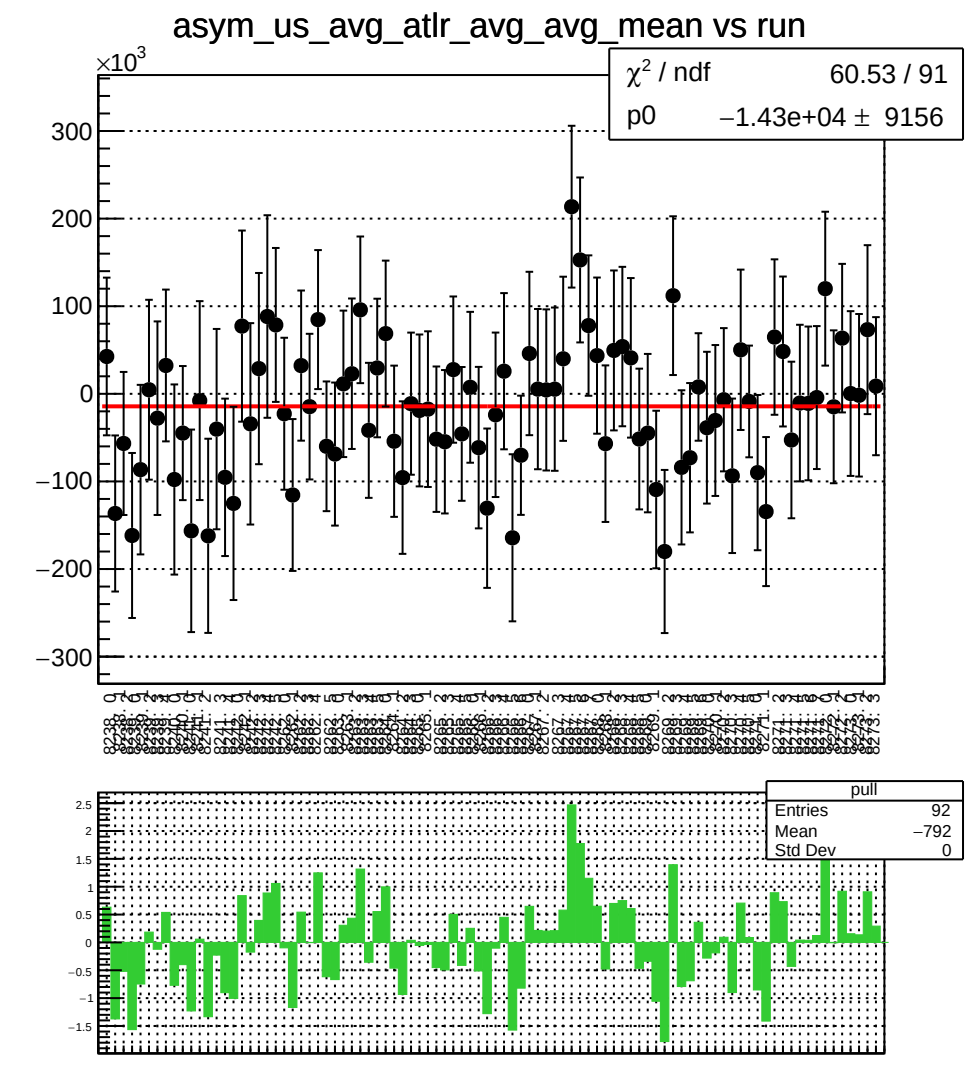

pull1D
Entries 92
Mean 0.001862
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

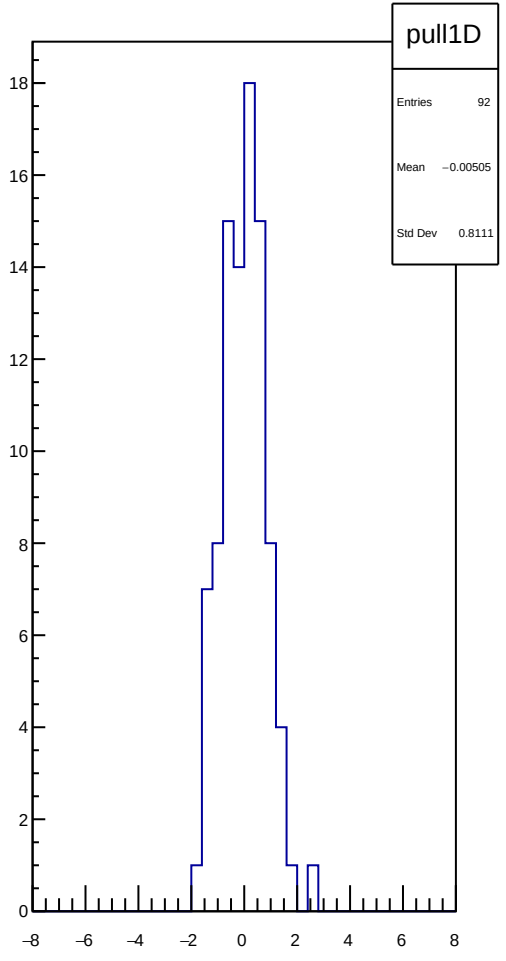

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 978.3 / 91
p0 1852 ± 1.388
2100
2050
2000
1950
1900
1850
1800

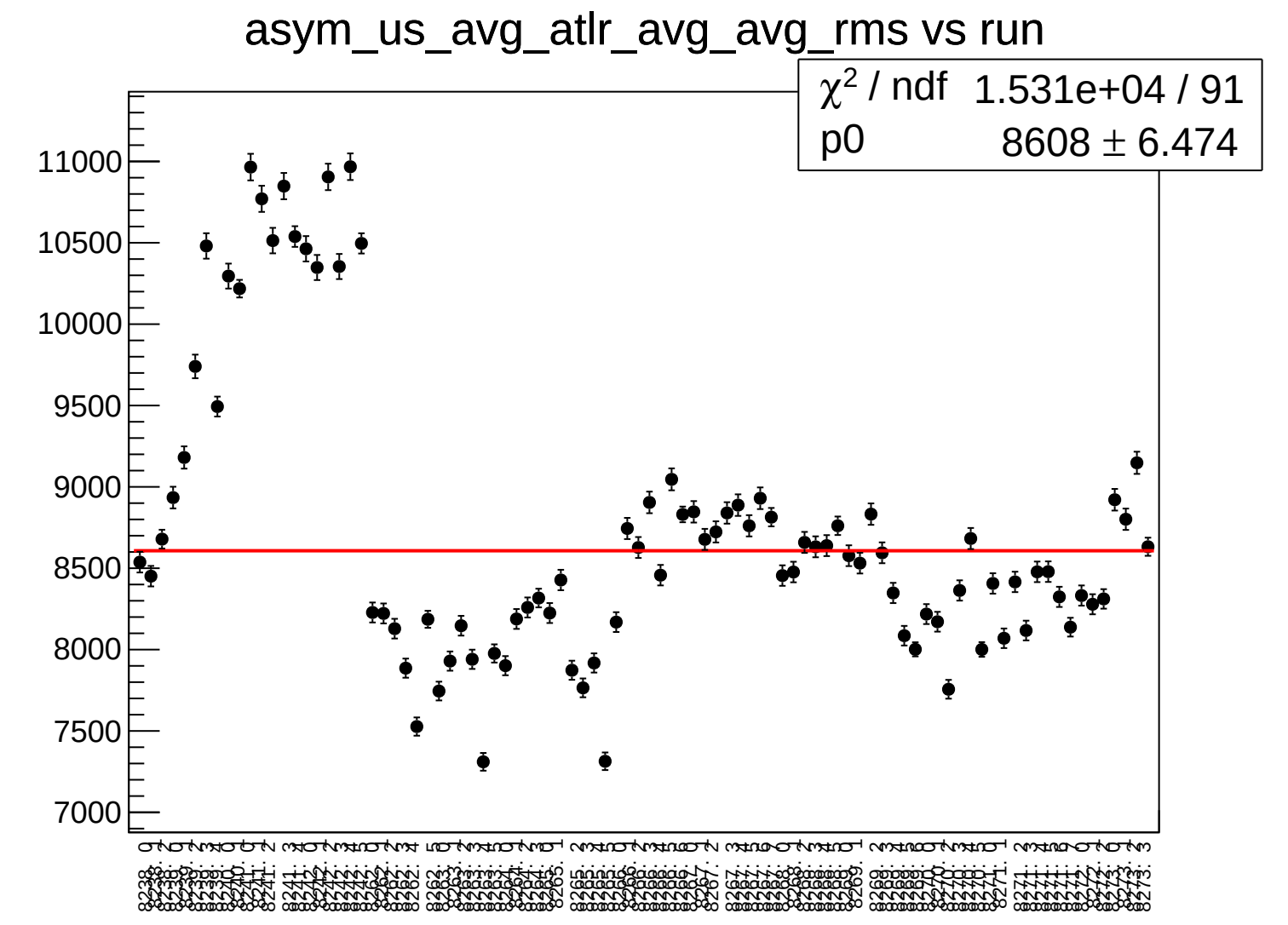

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.86 / 91
p0 1.841e+04 ± 9068
pull
Entries 92
Mean −496.4
Std Dev 0

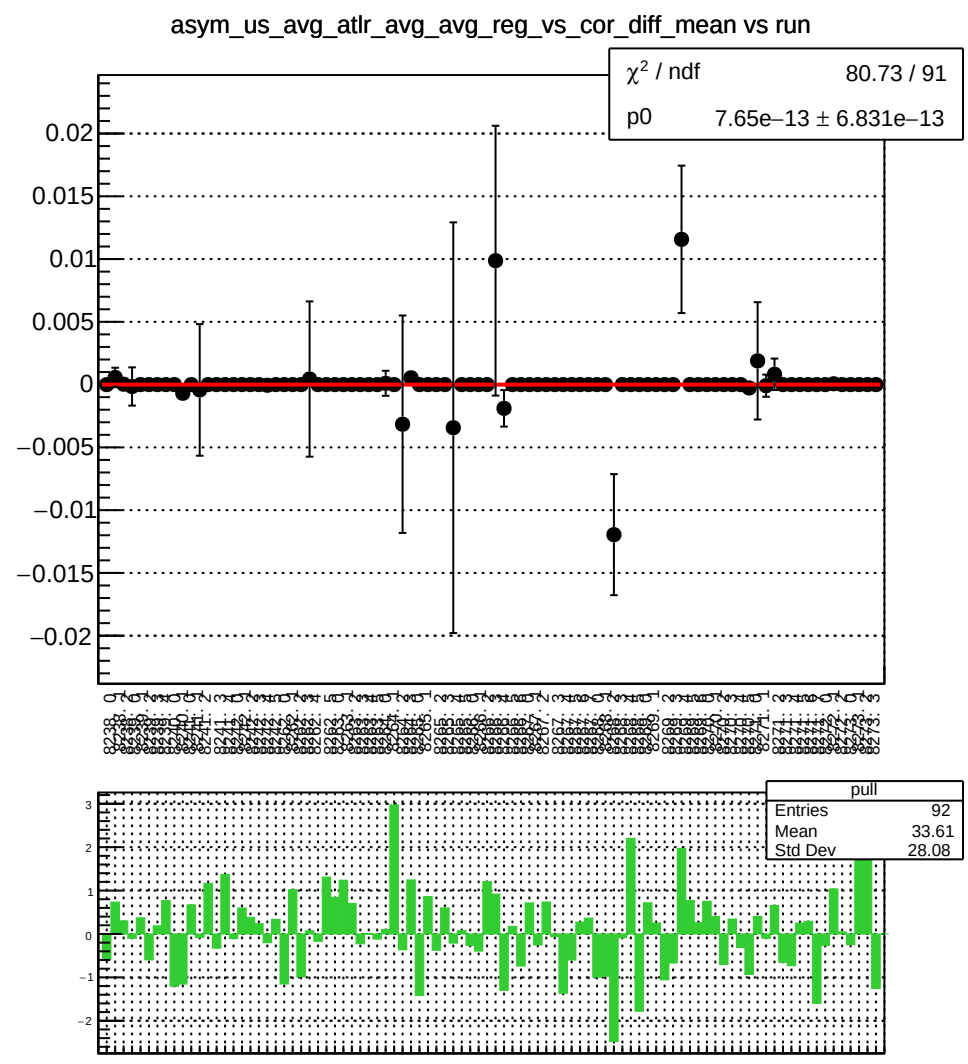

pull1D
Entries 92
Mean 0.006898
Std Dev 0.8651

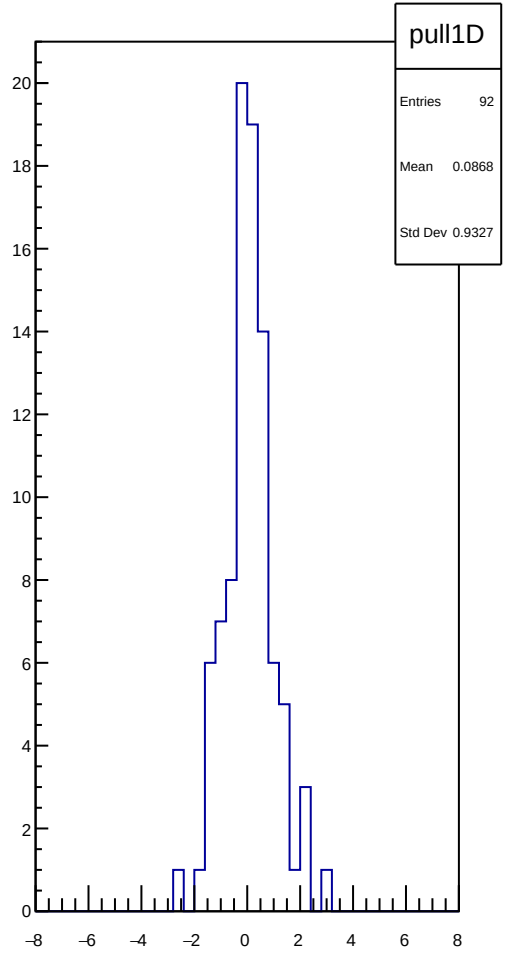

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.433e+04 / 91
p0 8527 ± 6.412
11000
10500
10000
9500
9000
8500
8000
7500
7000

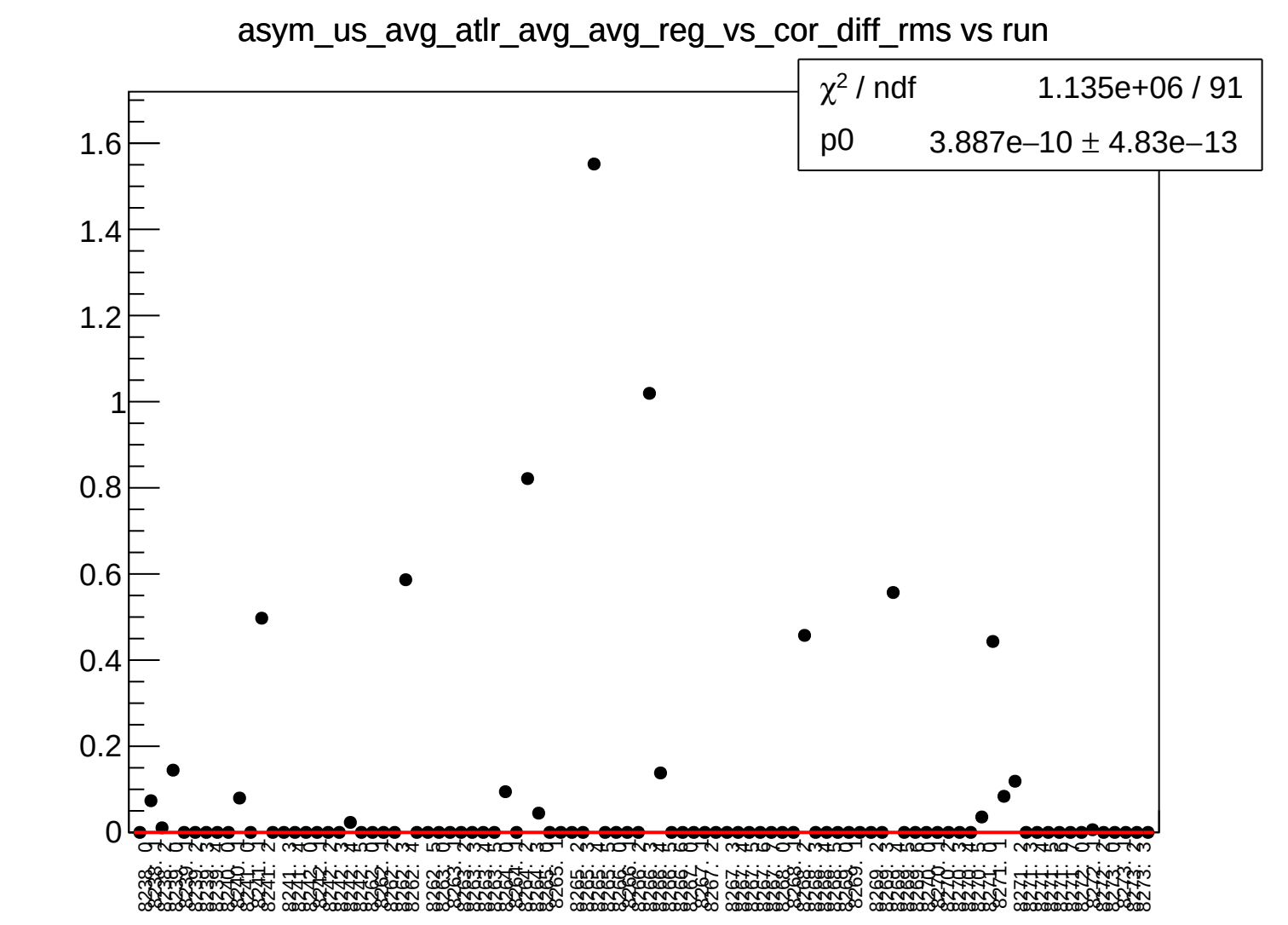

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 60.53 / 91
p0 −1.43e+04 ± 9156
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean −792
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

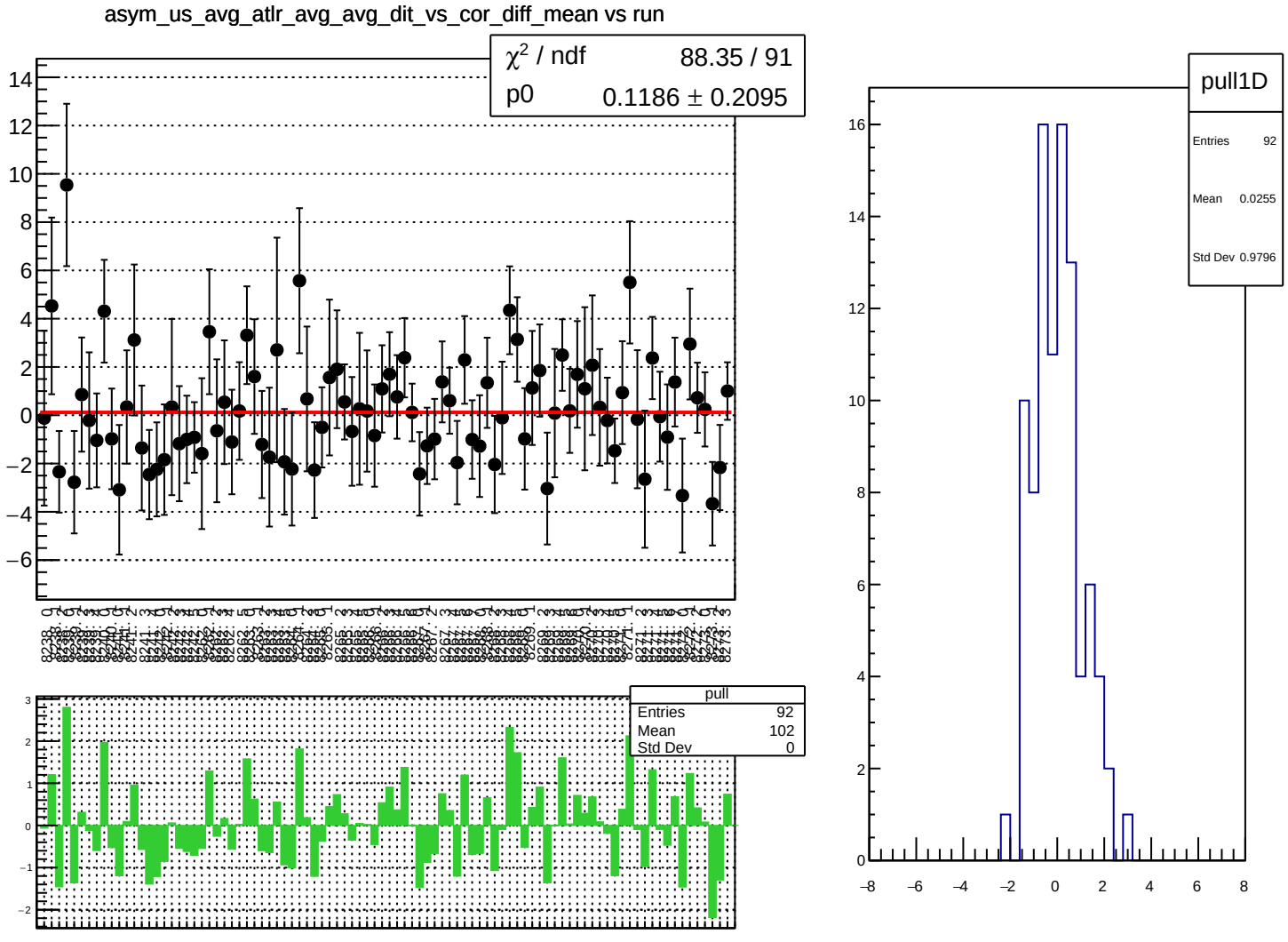

pull1D
Entries 92
Mean −0.00505
Std Dev 0.8111
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

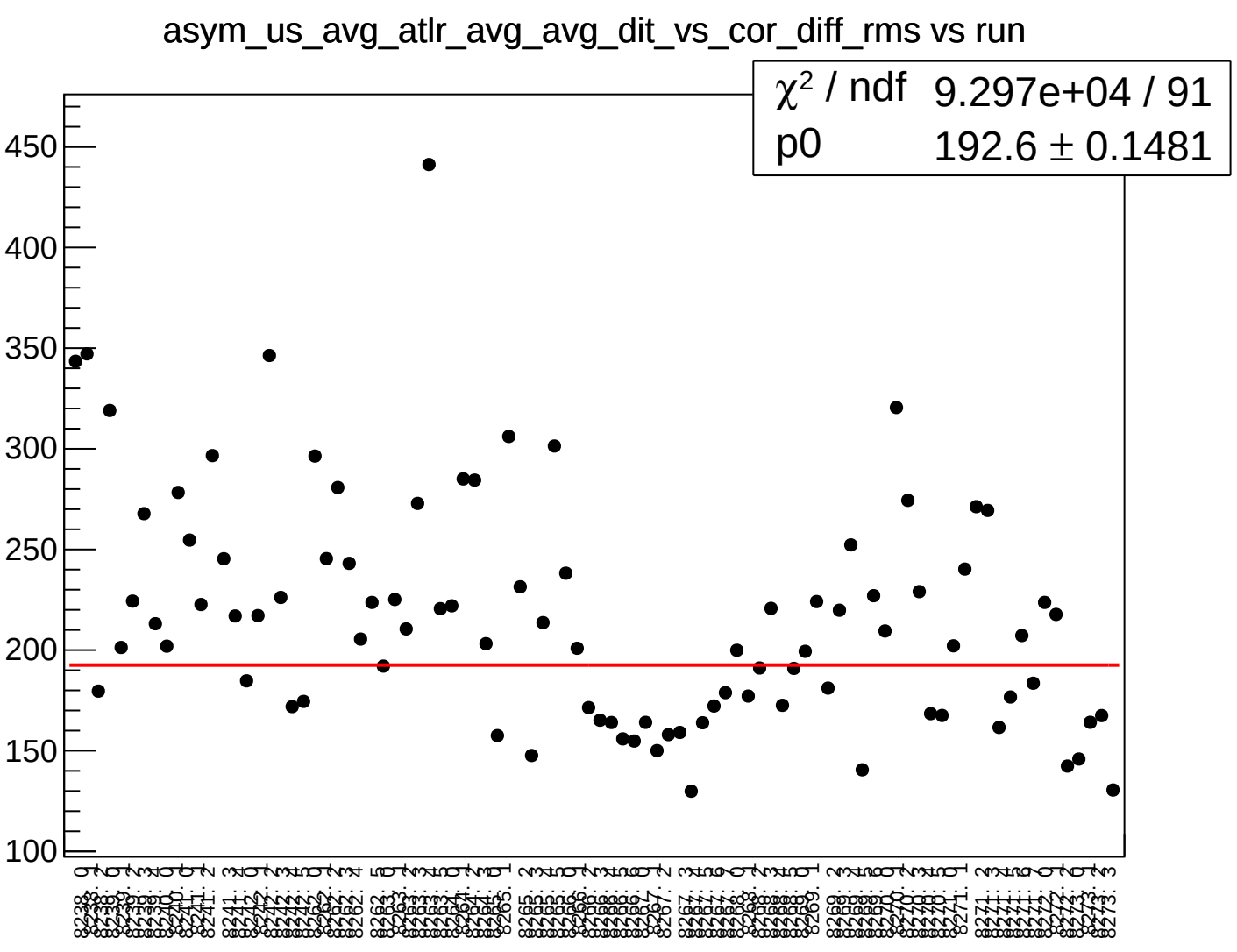

asym_us_avg_atlr_avg_avg_rms vs run
$\chi^2$ / ndf 1.531e+04 / 91
p0 8608 ± 6.474
11000
10500
10000
9500
9000
8500
8000
7500
7000

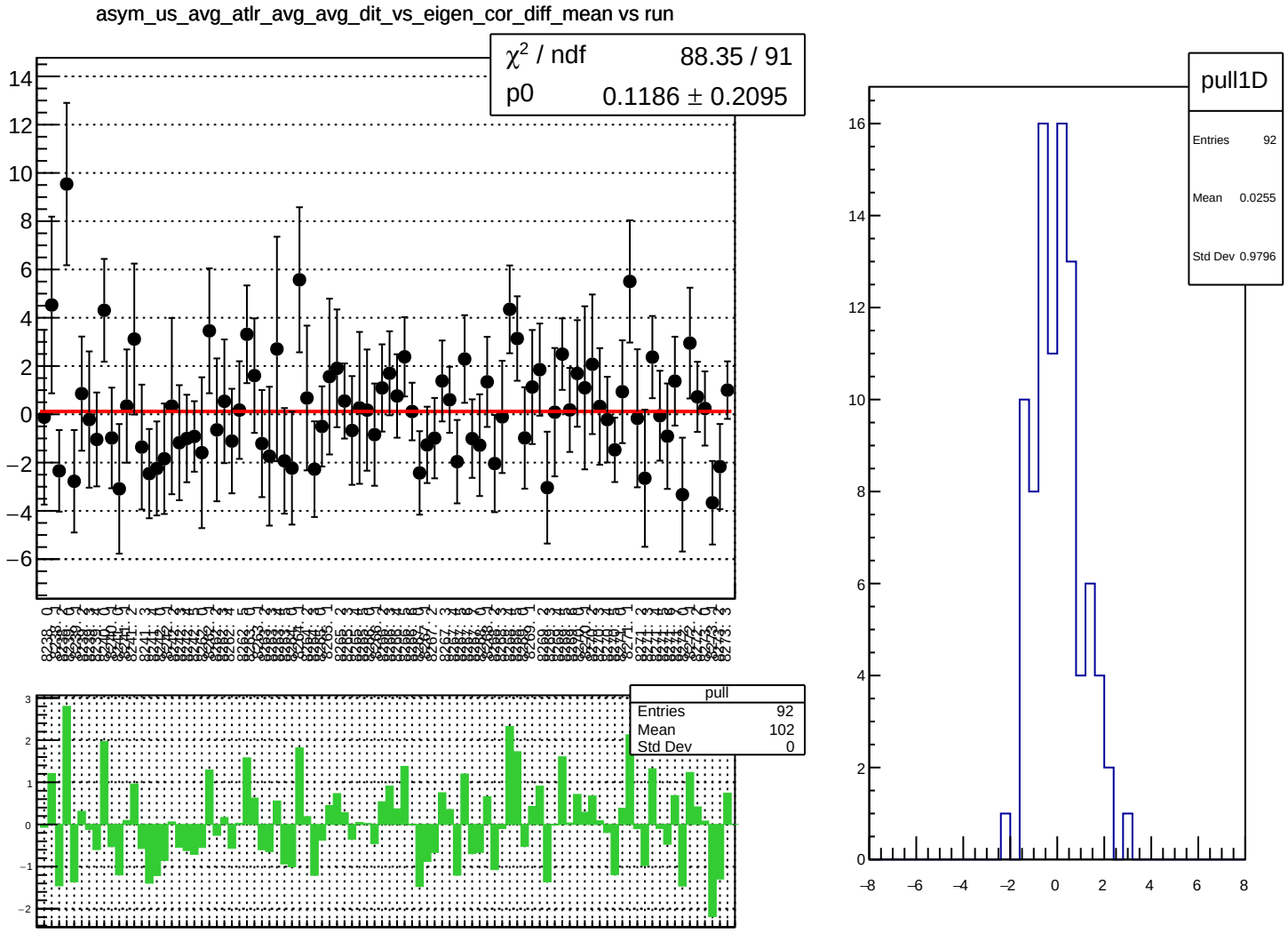

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.73 / 91
p0 7.65e−13 ± 6.831e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 92
Mean 33.61
Std Dev 28.08
3
2
1
0
−1
−2

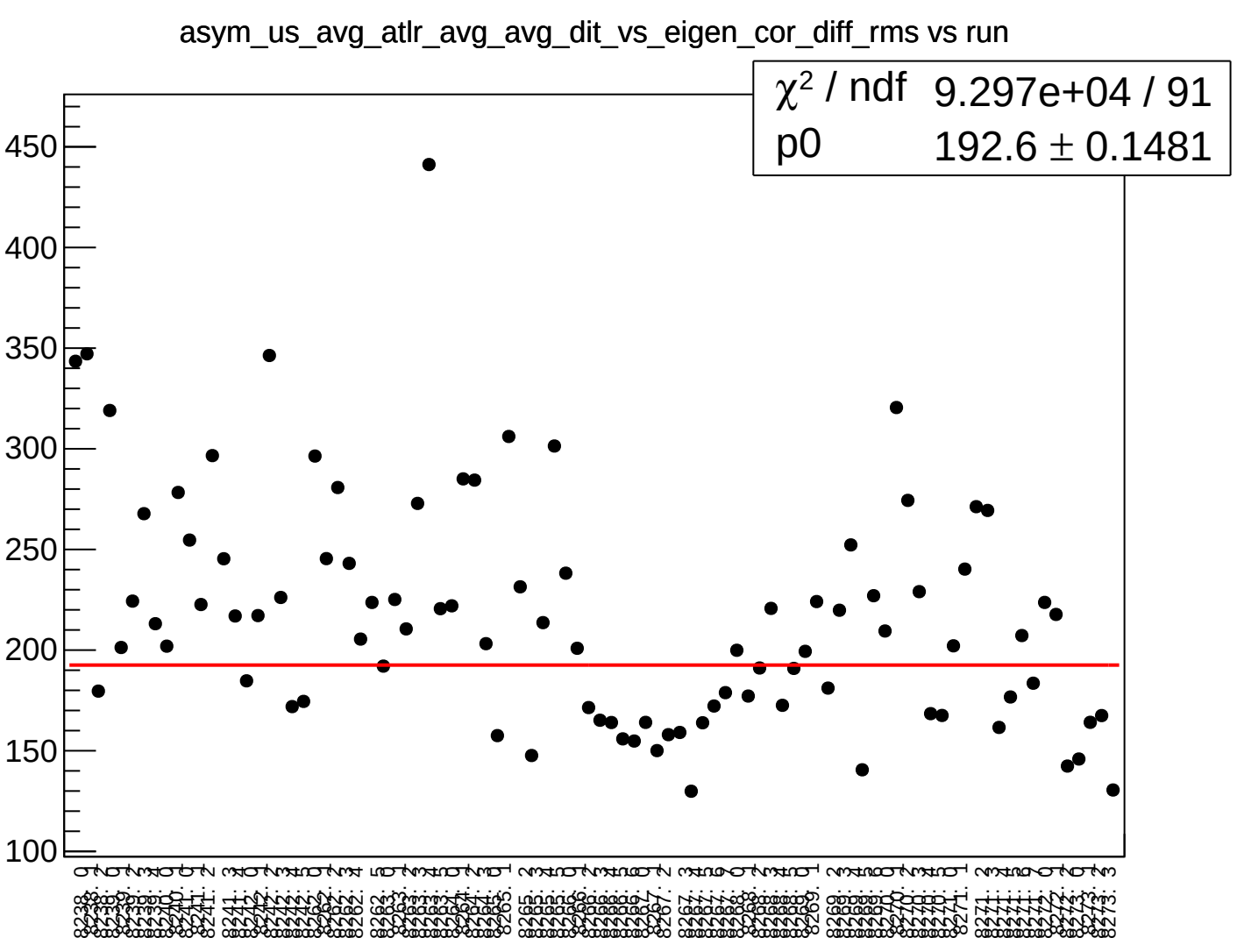

pull1D
Entries 92
Mean 0.0868
Std Dev 0.9327
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

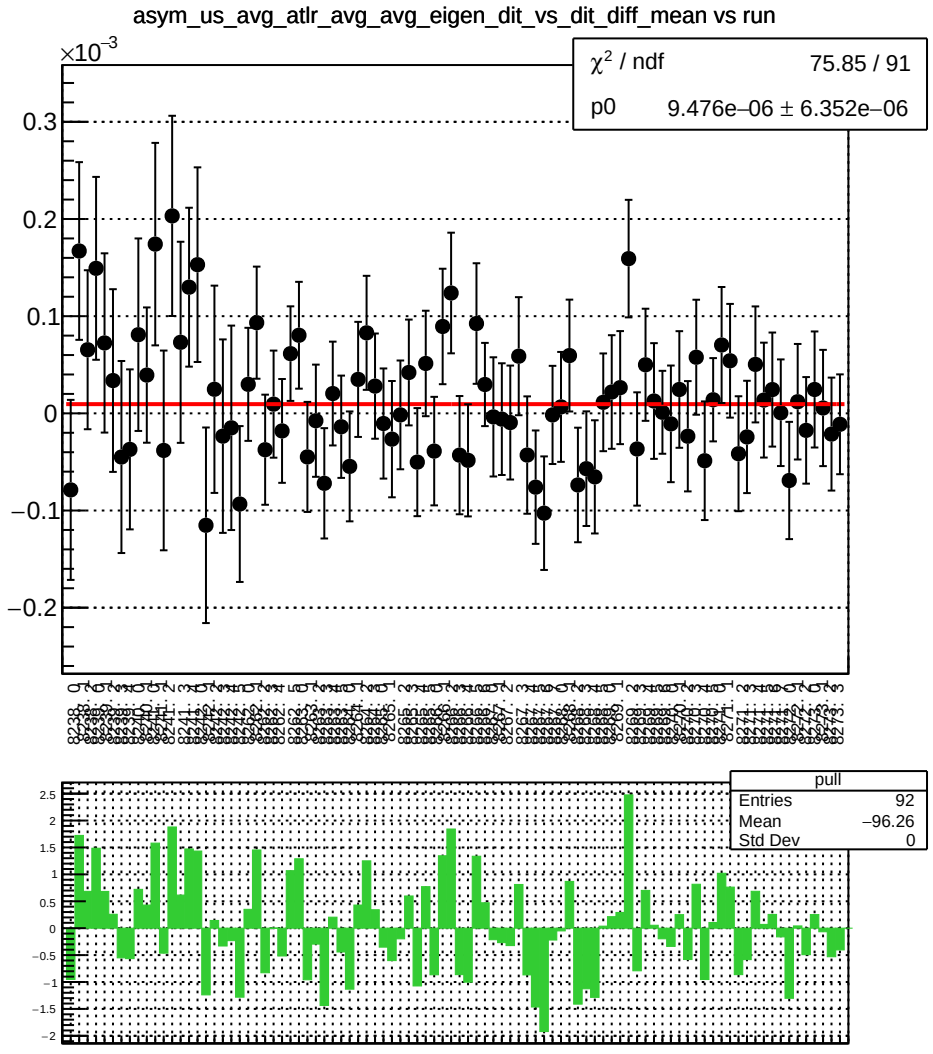

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.135e+06 / 91
p0 3.887e−10 ± 4.83e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

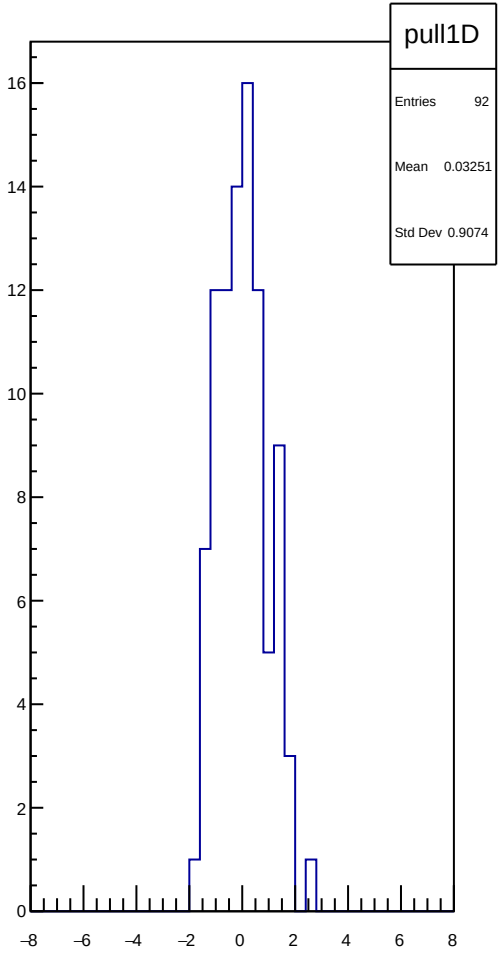

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.35 / 91
p0 0.1186 ± 0.2095
pull
Entries 92
Mean 102
Std Dev 0
pull1D
Entries 92
Mean 0.0255
Std Dev 0.9796

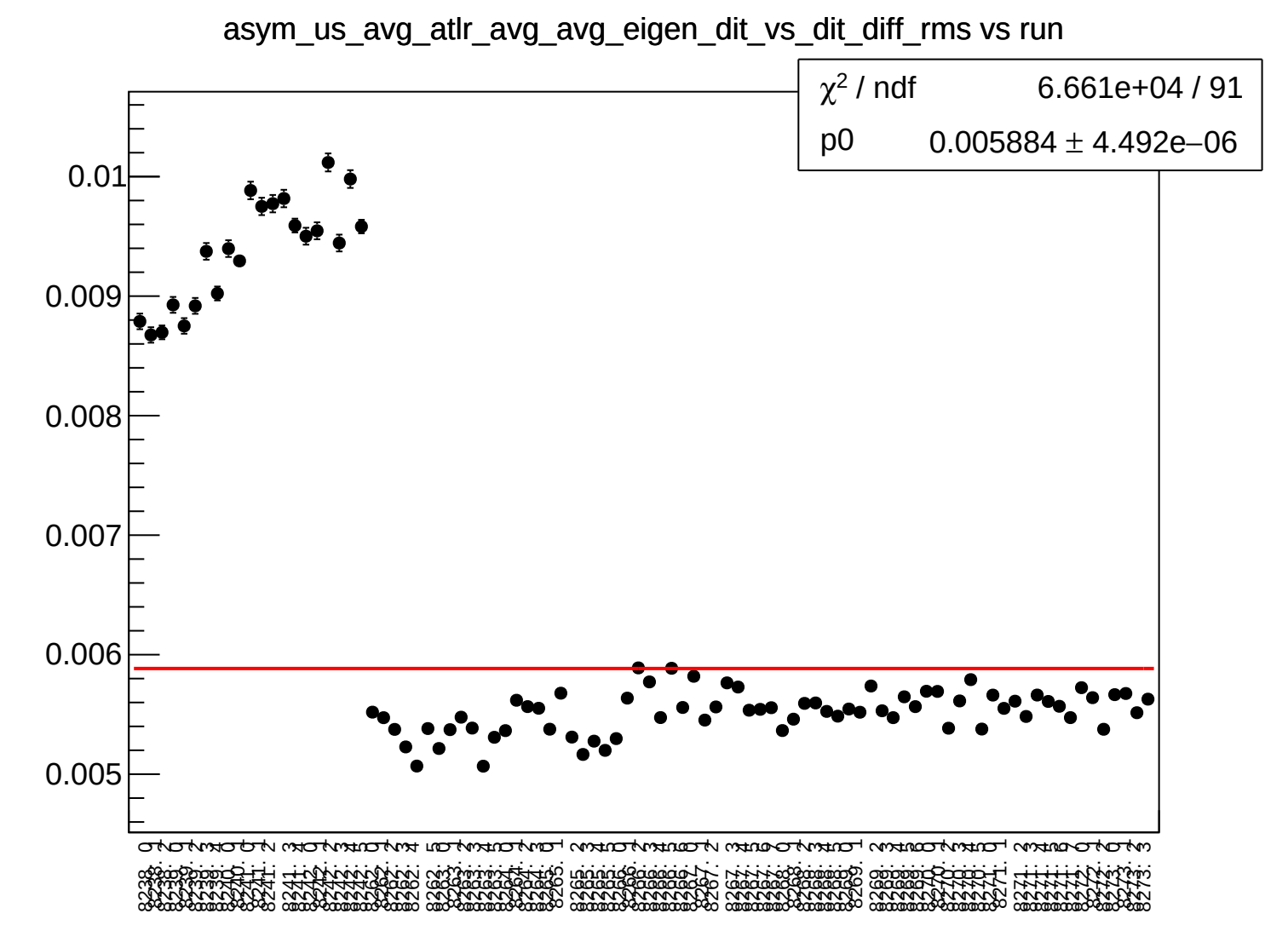

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.297e+04 / 91
p0 192.6 ± 0.1481
450
400
350
300
250
200
150
100

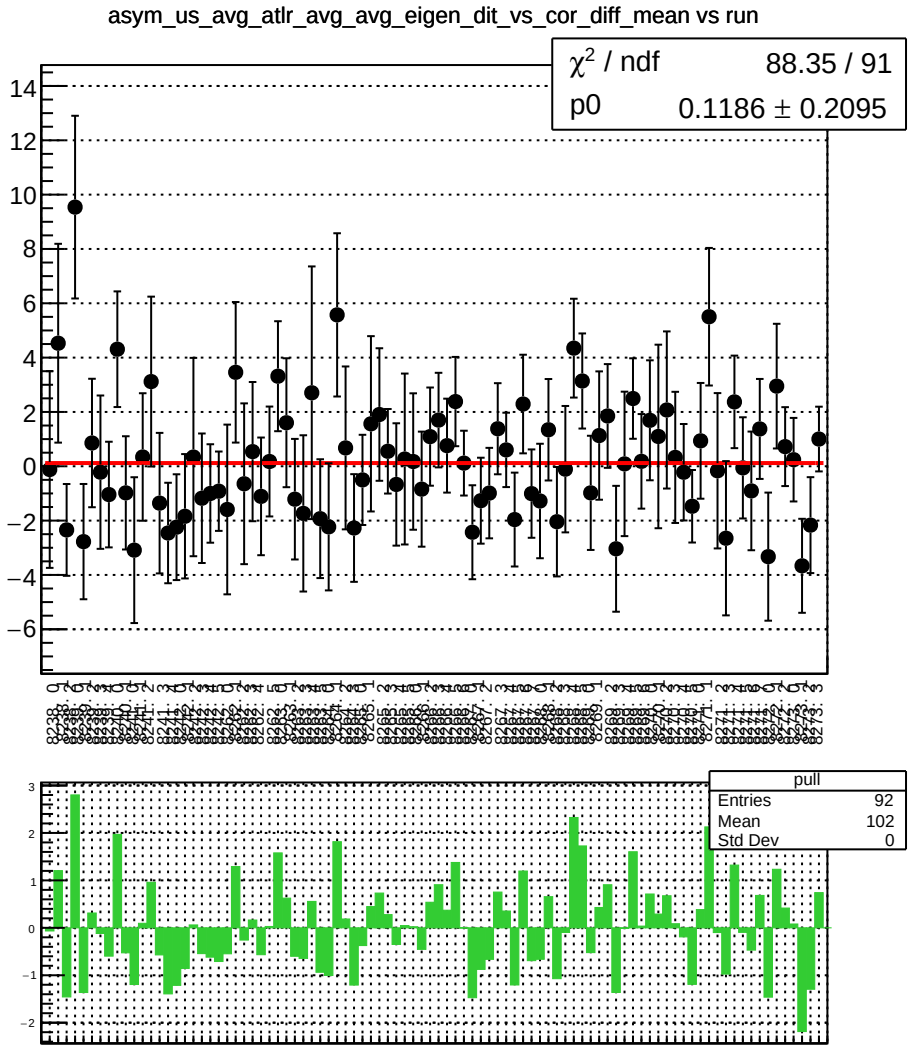

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.35 / 91
p0 0.1186 ± 0.2095
pull
Entries 92
Mean 102
Std Dev 0
pull1D
Entries 92
Mean 0.0255
Std Dev 0.9796

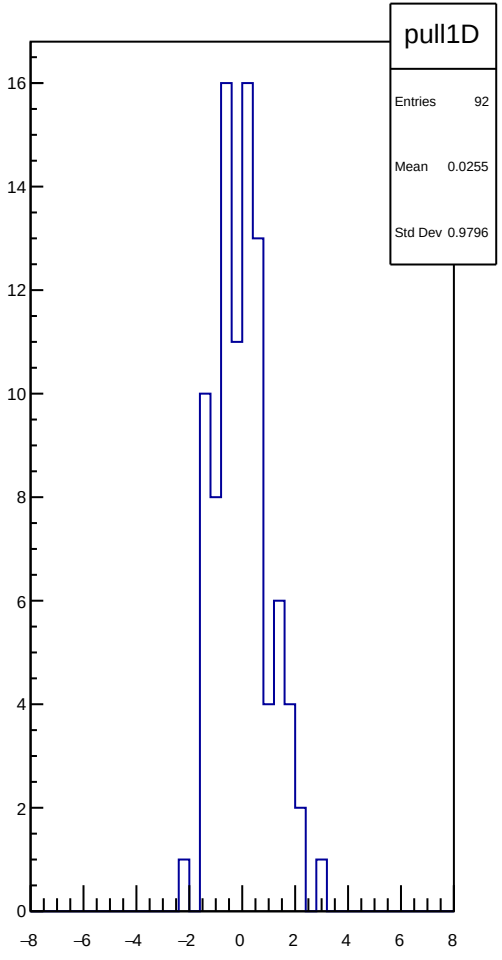

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.297e+04 / 91
p0 192.6 ± 0.1481
450
400
350
300
250
200
150
100

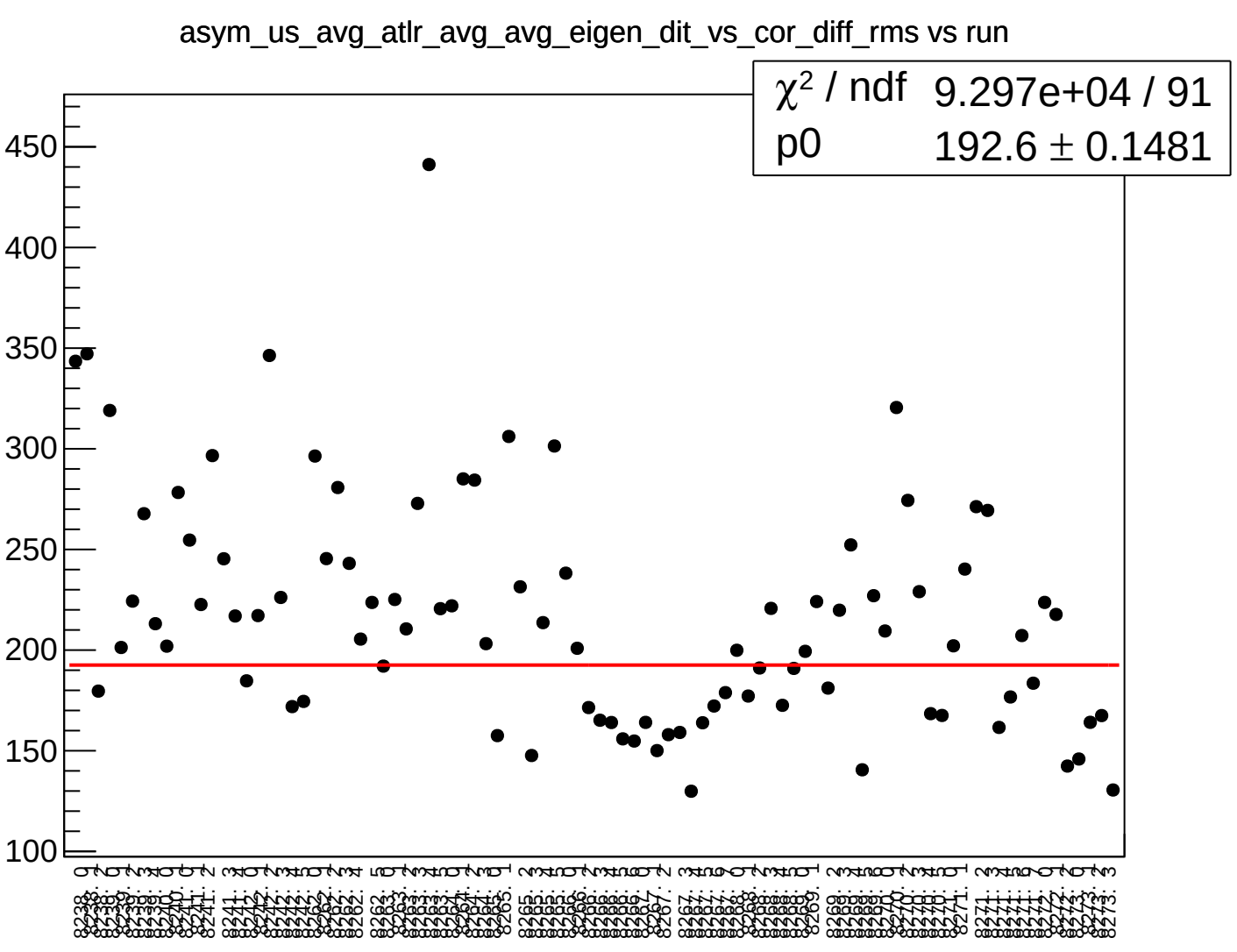

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 75.85 / 91
p0 9.476e−06 ± 6.352e−06
pull
Entries 92
Mean −96.26
Std Dev 0

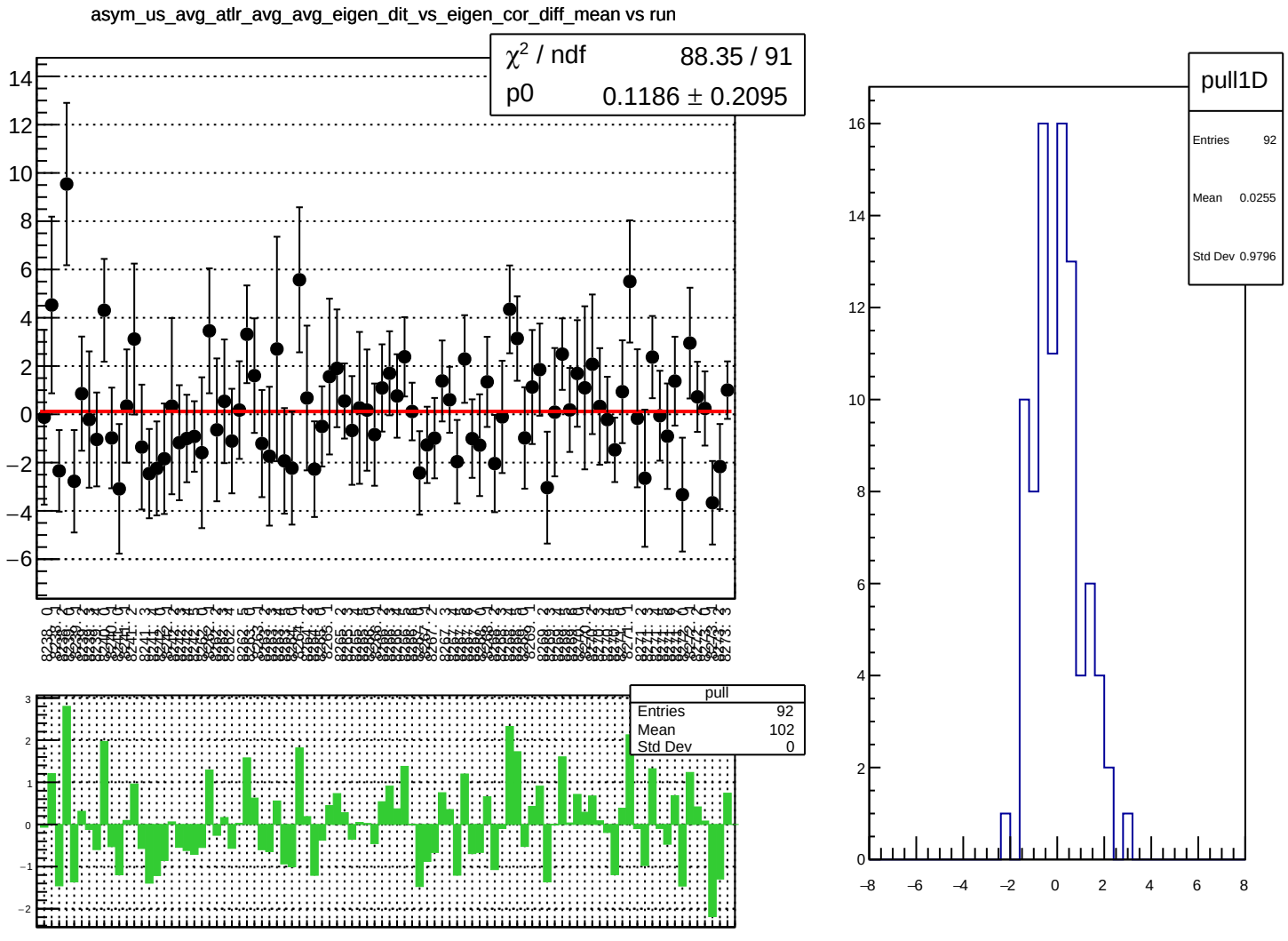

pull1D
Entries 92
Mean 0.03251
Std Dev 0.9074

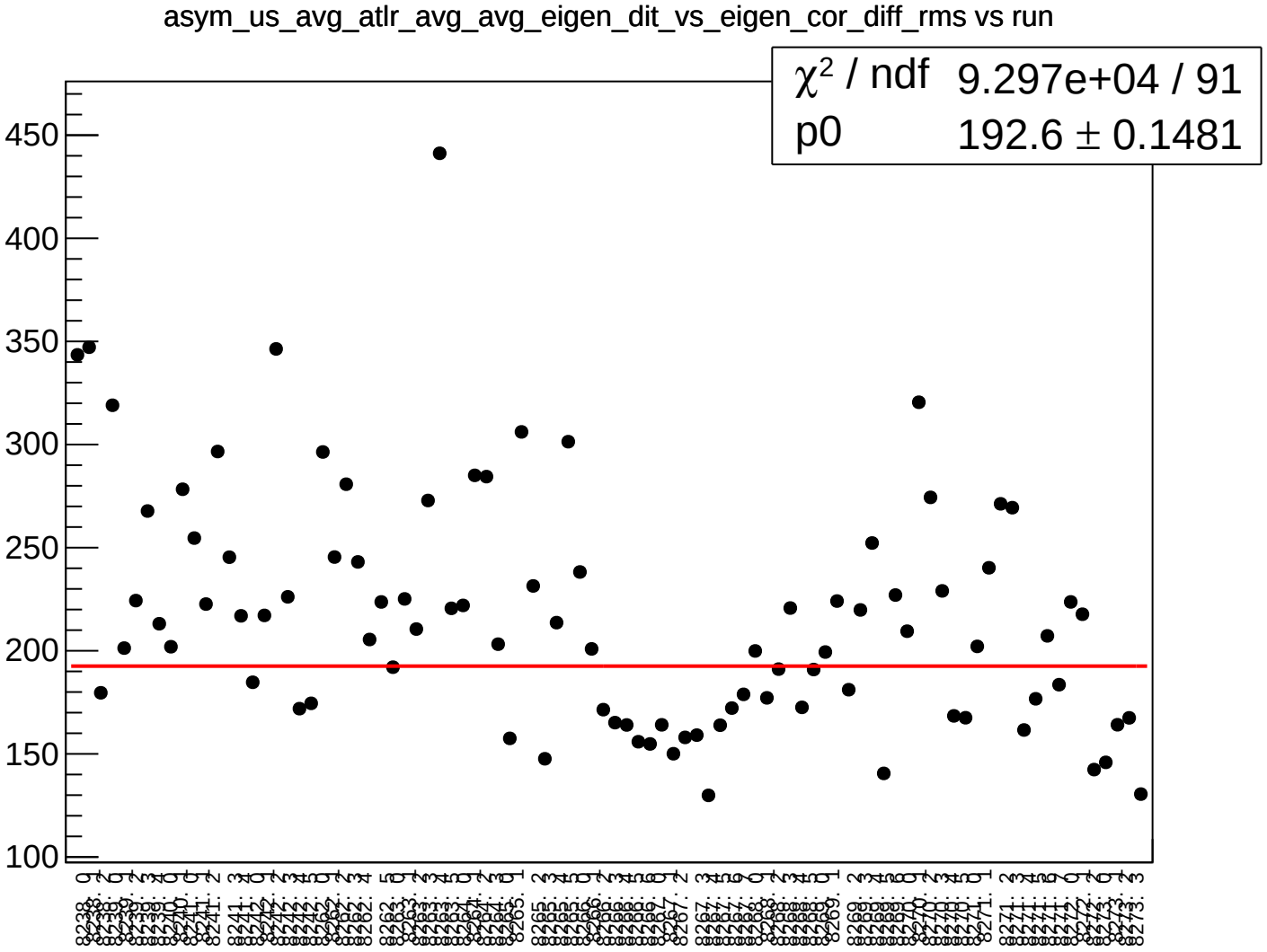

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.661e+04 / 91
p0 0.005884 ± 4.492e−06
0.01
0.009
0.008
0.007
0.006
0.005

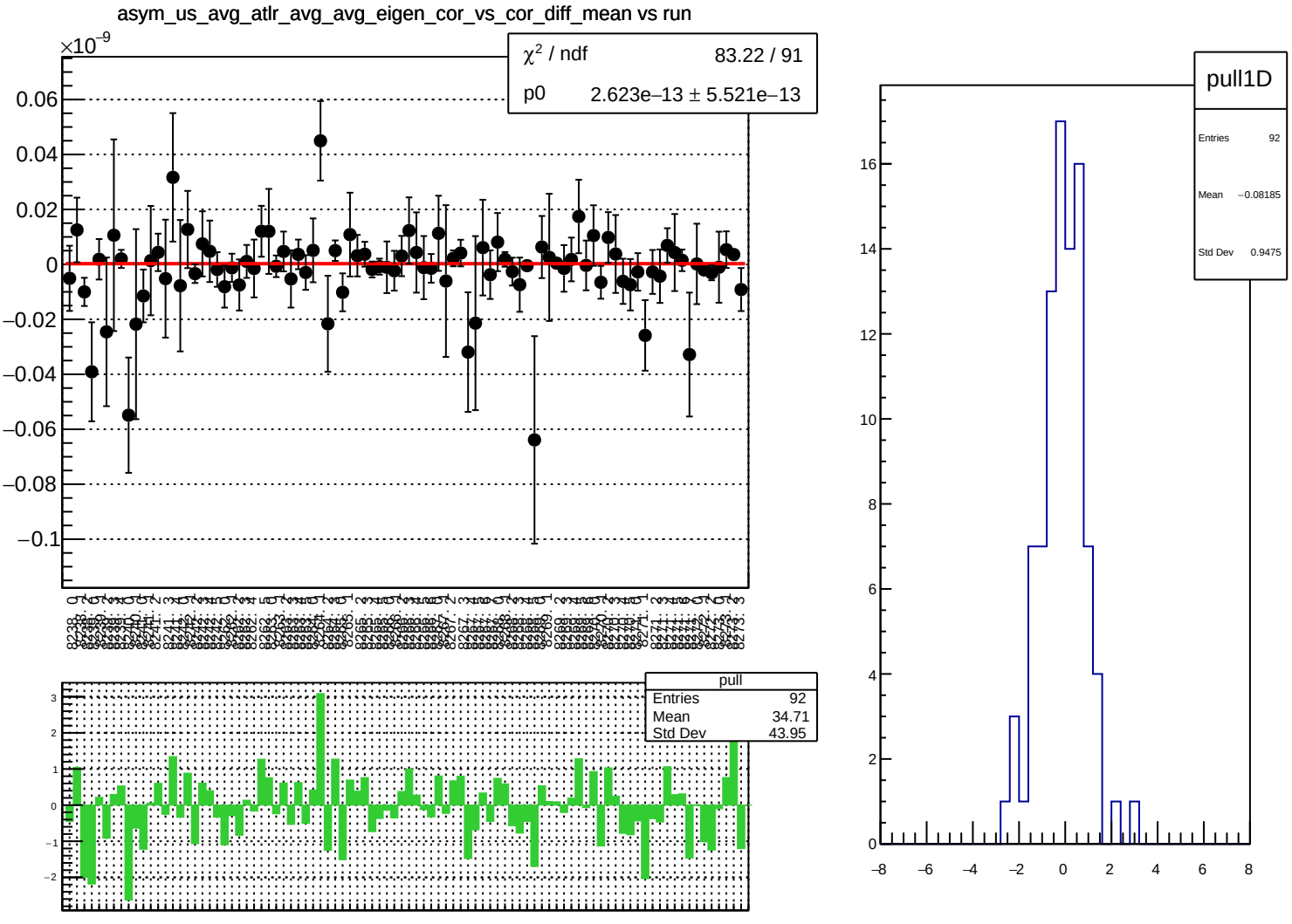

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.35 / 91
p0 0.1186 ± 0.2095
pull
Entries 92
Mean 102
Std Dev 0

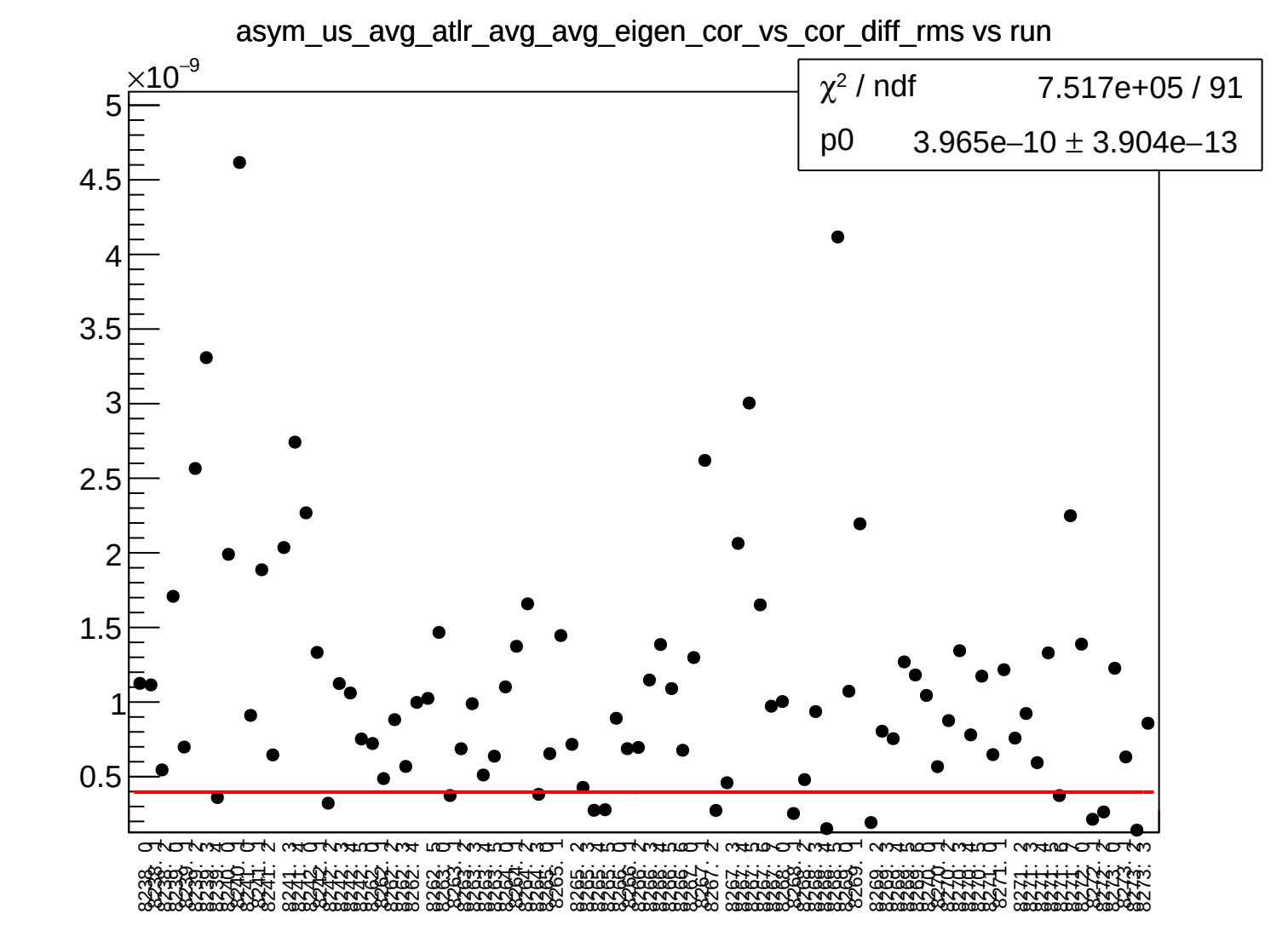

pull1D
Entries 92
Mean 0.0255
Std Dev 0.9796

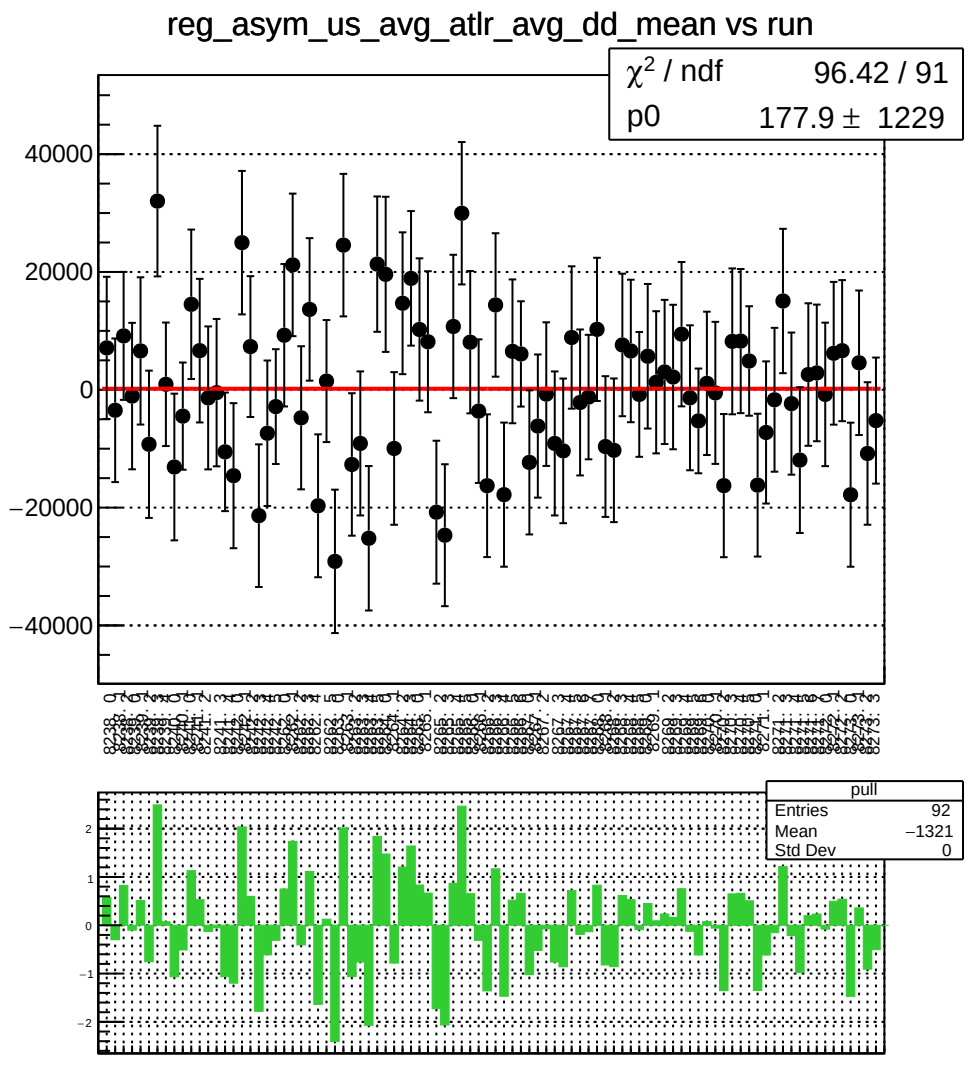

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.297e+04 / 91
p0 192.6 ± 0.1481
450
400
350
300
250
200
150
100

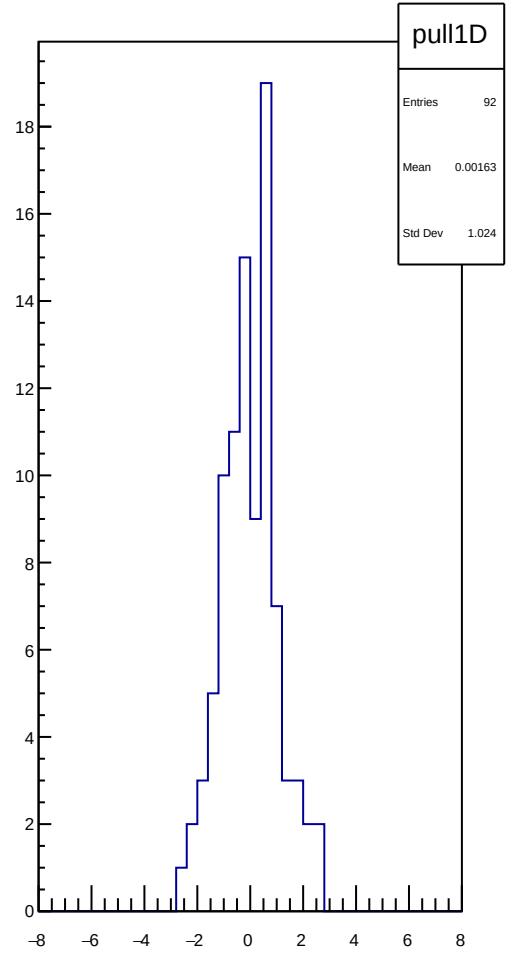

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.35 / 91
p0 0.1186 ± 0.2095
pull
Entries 92
Mean 102
Std Dev 0
pull1D
Entries 92
Mean 0.0255
Std Dev 0.9796

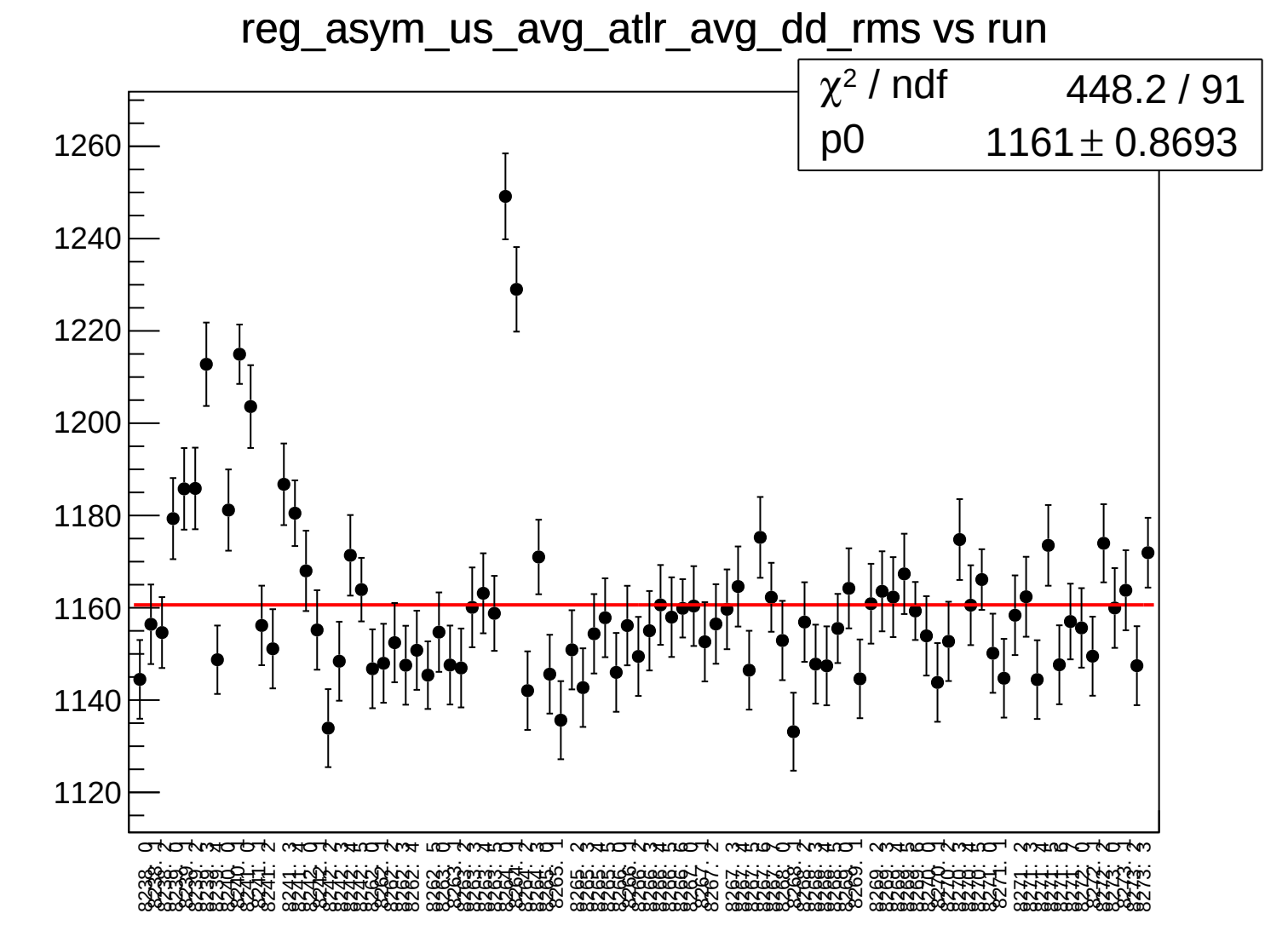

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.297e+04 / 91
p0 192.6 ± 0.1481
450
400
350
300
250
200
150
100

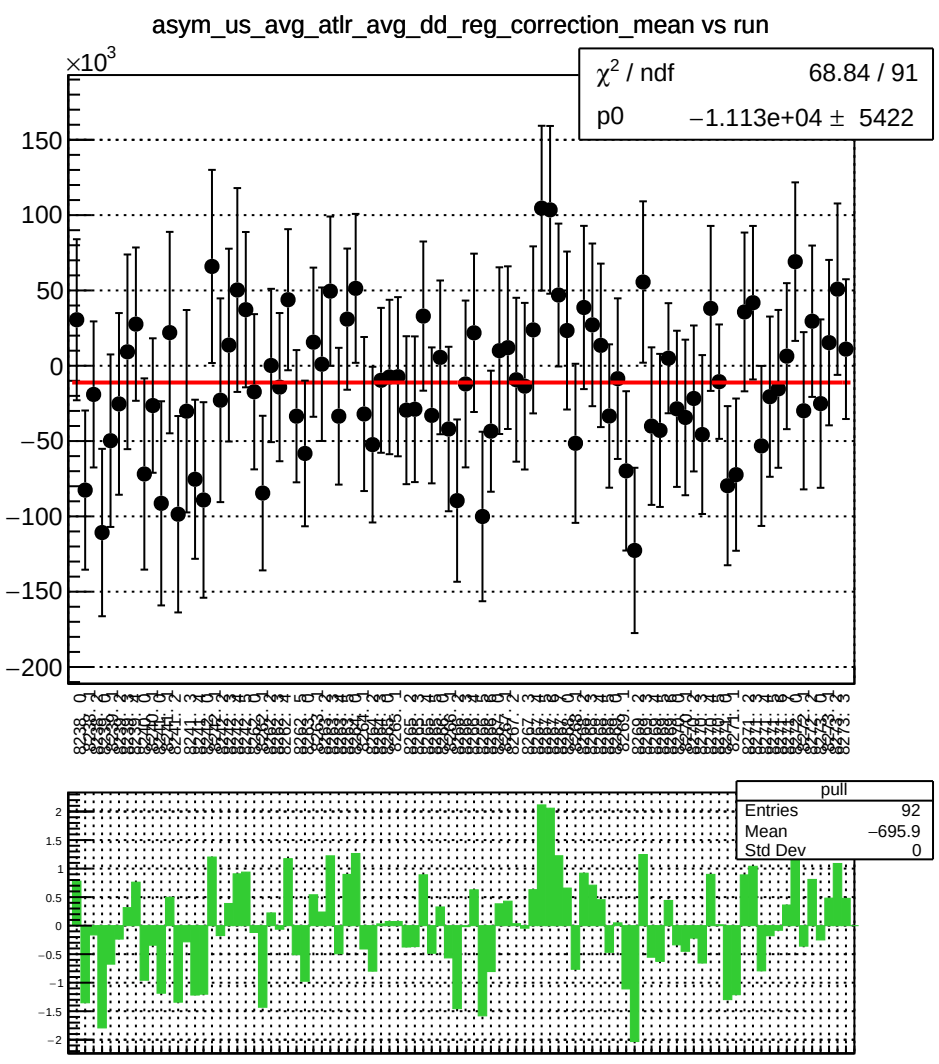

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 83.22 / 91
p0 2.623e−13 ± 5.521e−13
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 92
Mean 34.71
Std Dev 43.95
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.08185
Std Dev 0.9475
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

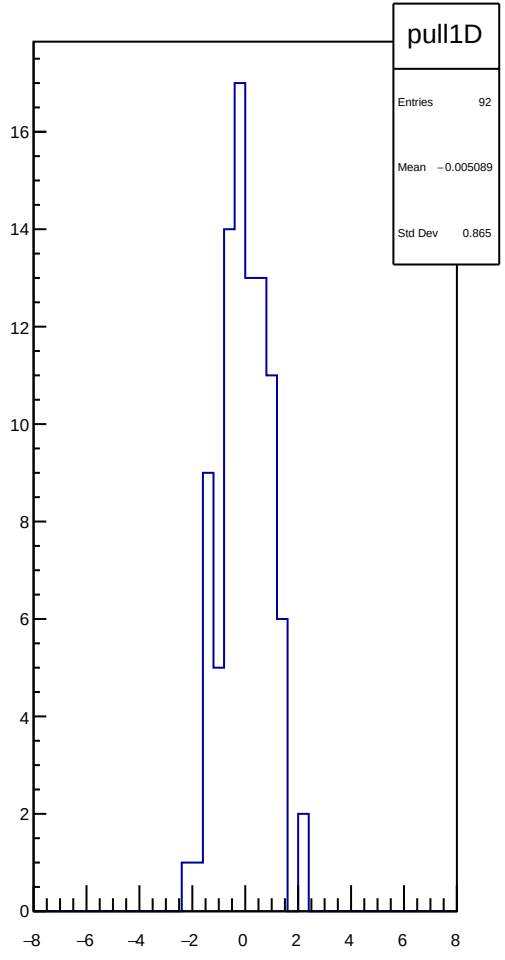

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.517e+05 / 91
p0 3.965e−10 ± 3.904e−13
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5

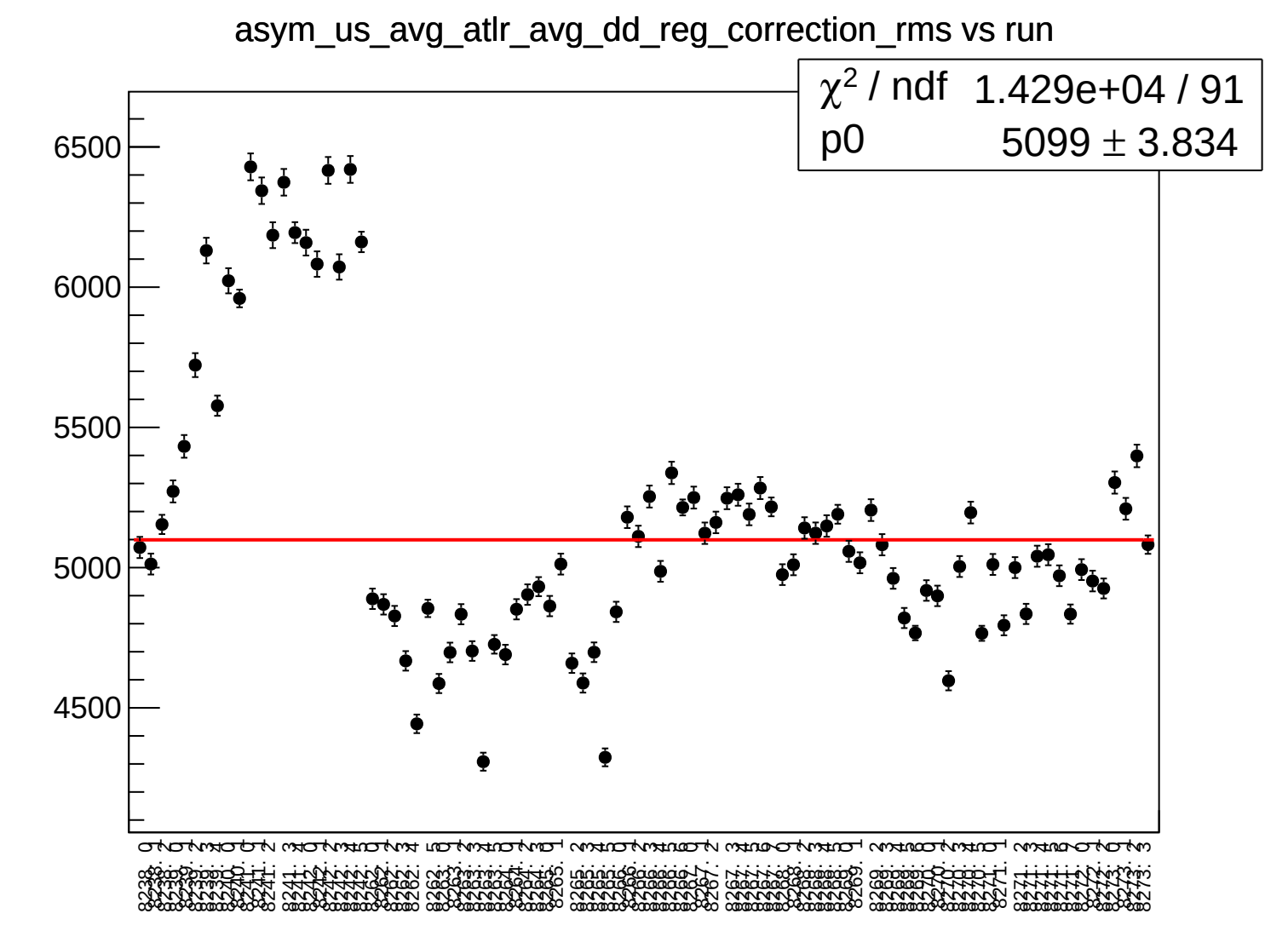

reg_asym_us_avg_atlr_avg_dd_mean vs run
$\chi^2$ / ndf 96.42 / 91
p0 177.9 ± 1229
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −1321
Std Dev 0
2
1
0
−1
−2

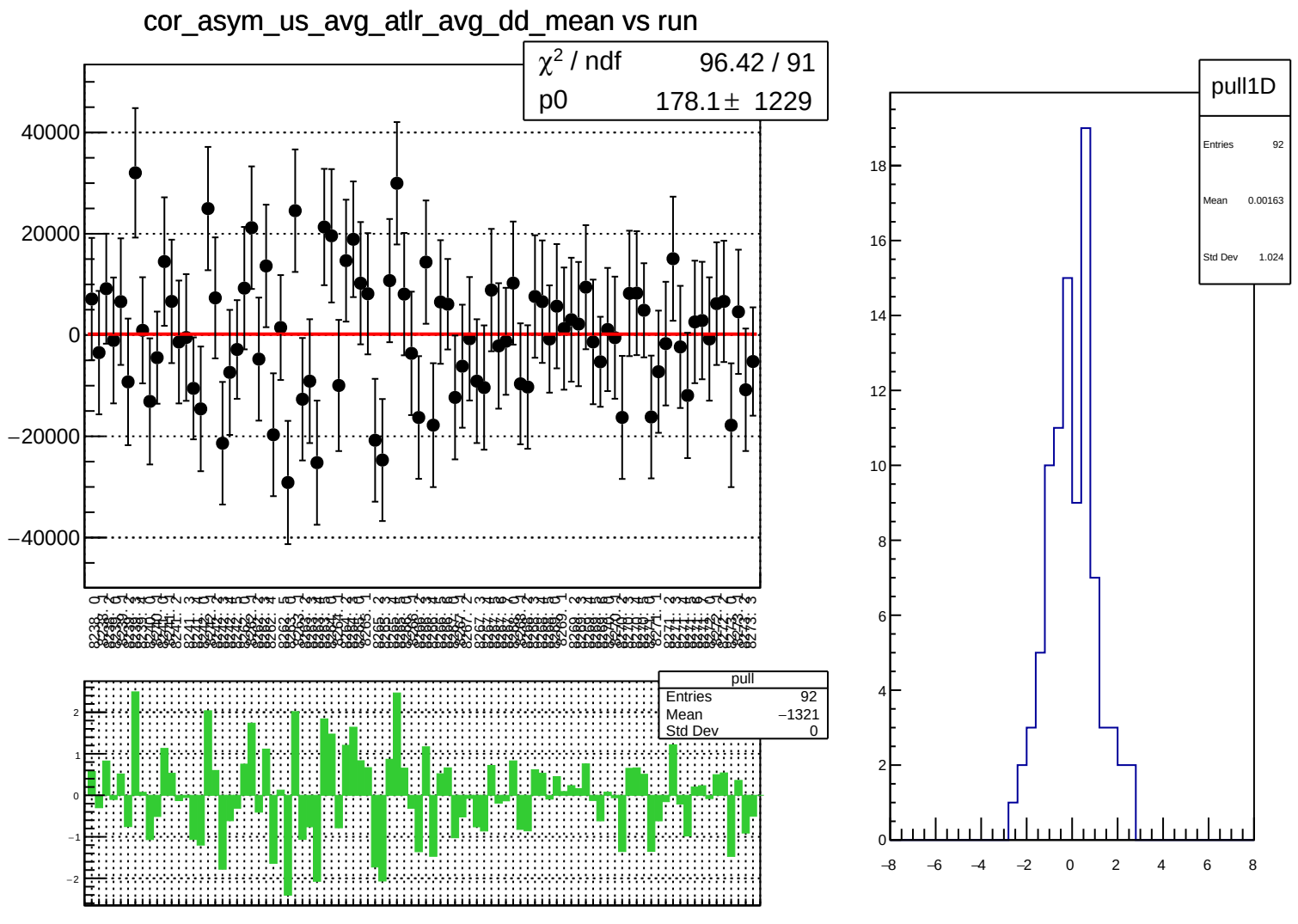

pull1D
Entries 92
Mean 0.00163
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

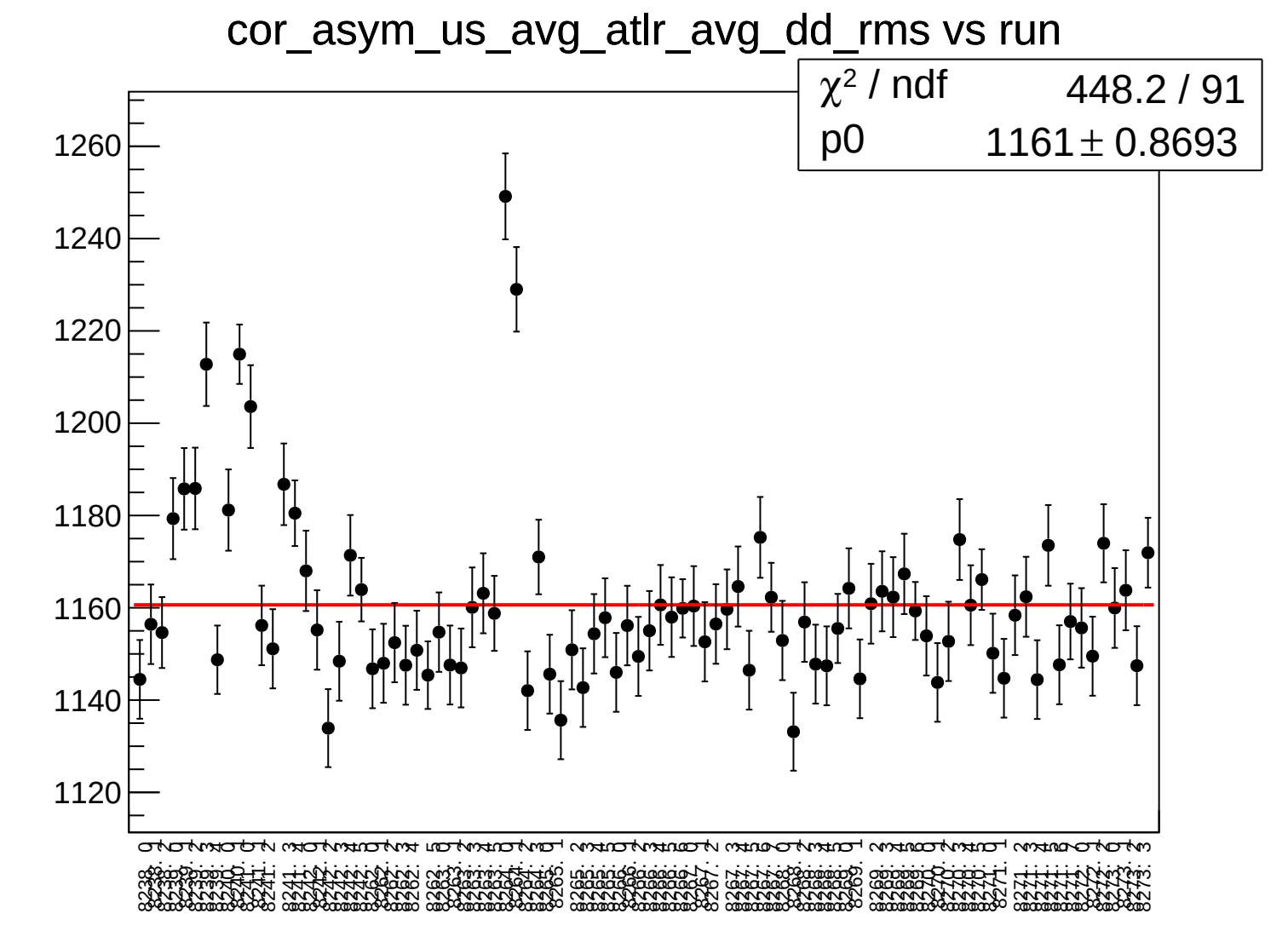

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 448.2 / 91
p0 1161 ± 0.8693
1260
1240
1220
1200
1180
1160
1140
1120

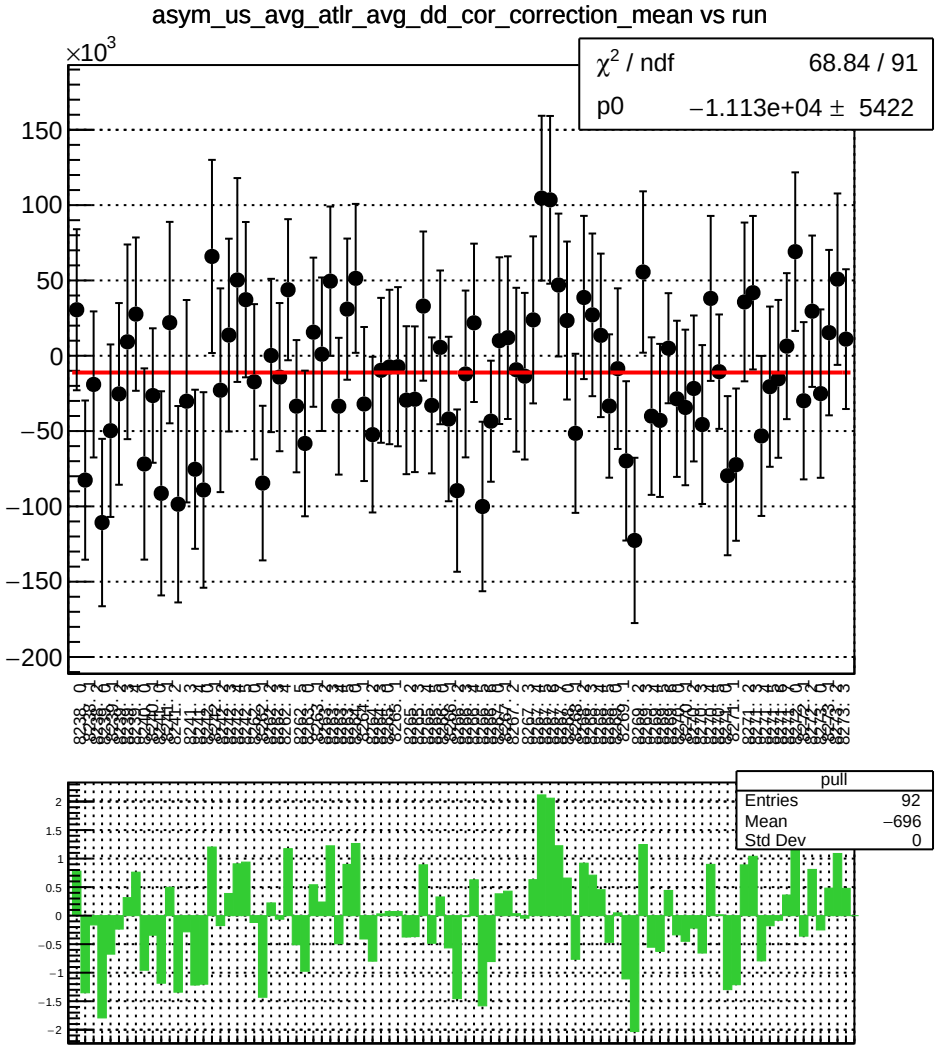

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 68.84 / 91
p0 −1.113e+04 ± 5422
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −695.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

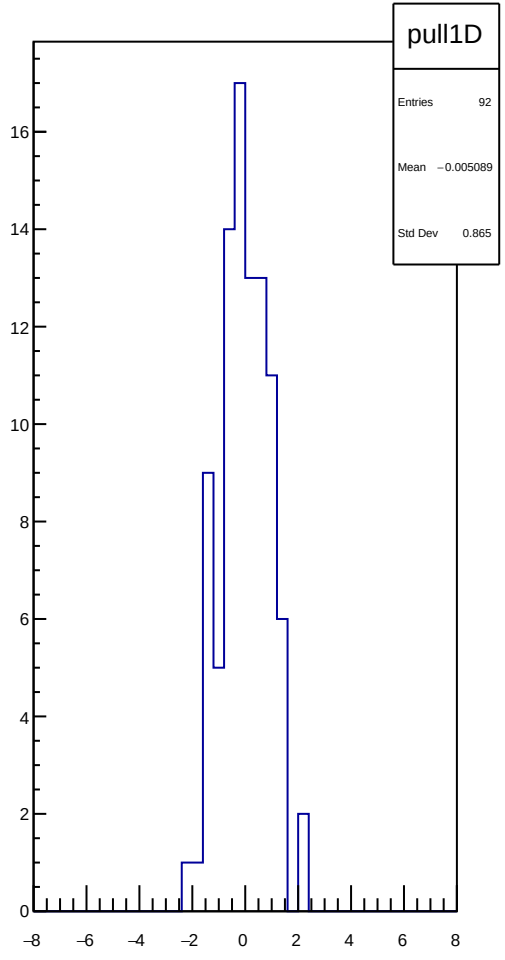

pull1D
Entries 92
Mean −0.005089
Std Dev 0.865
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.429e+04 / 91
p0 5099 ± 3.834
6500
6000
5500
5000
4500


cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 96.42 / 91
p0 178.1± 1229
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −1321
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.00163
Std Dev 1.024
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_dd_rms vs run
χ² / ndf 448.2 / 91
p0 1161 ± 0.8693
1260
1240
1220
1200
1180
1160
1140
1120


asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 68.84 / 91
p0 −1.113e+04 ± 5422
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −696
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 92
Mean −0.005089
Std Dev 0.865
16
14
12
10
8
6
4
2
0
−8
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−4
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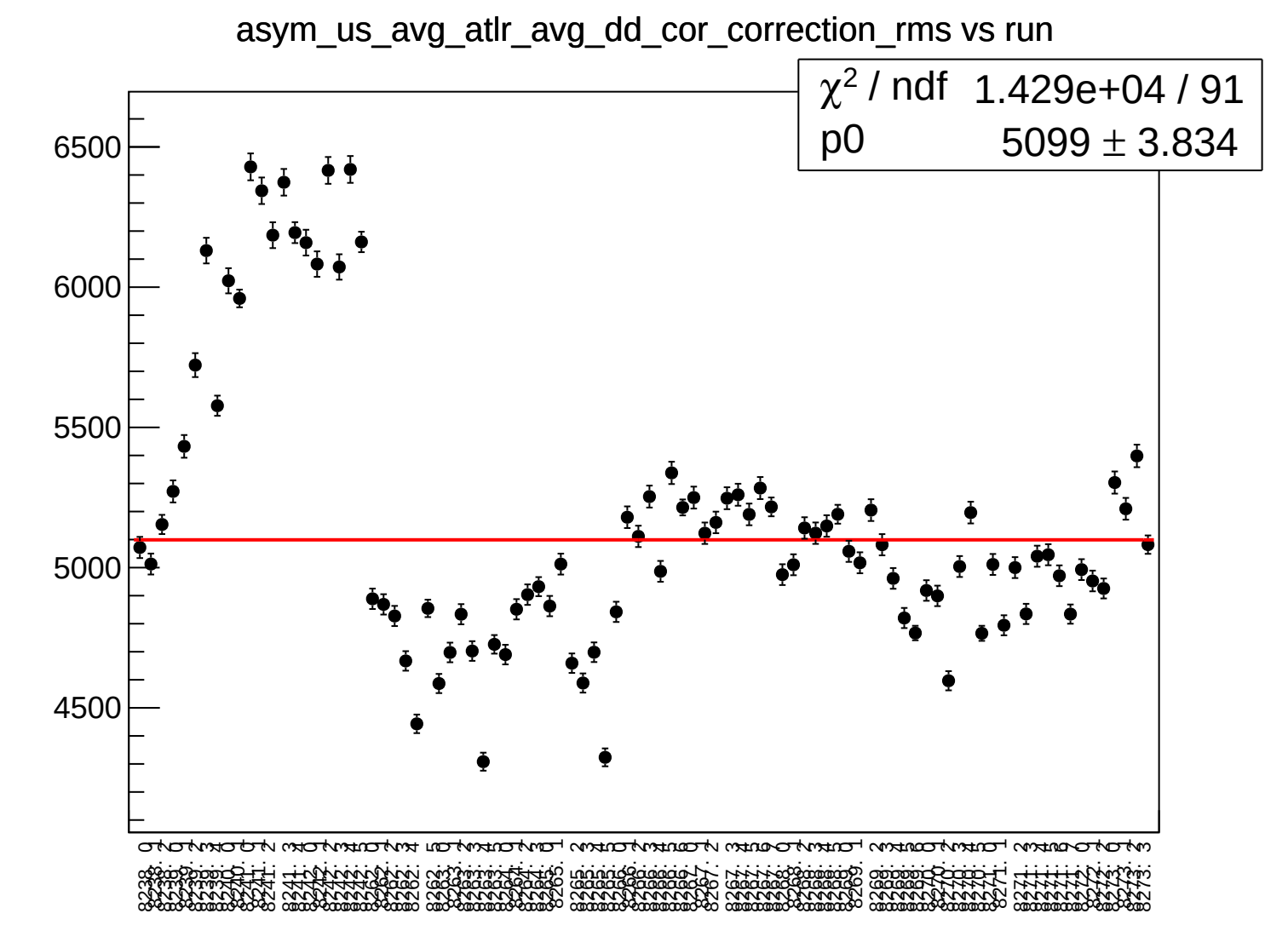
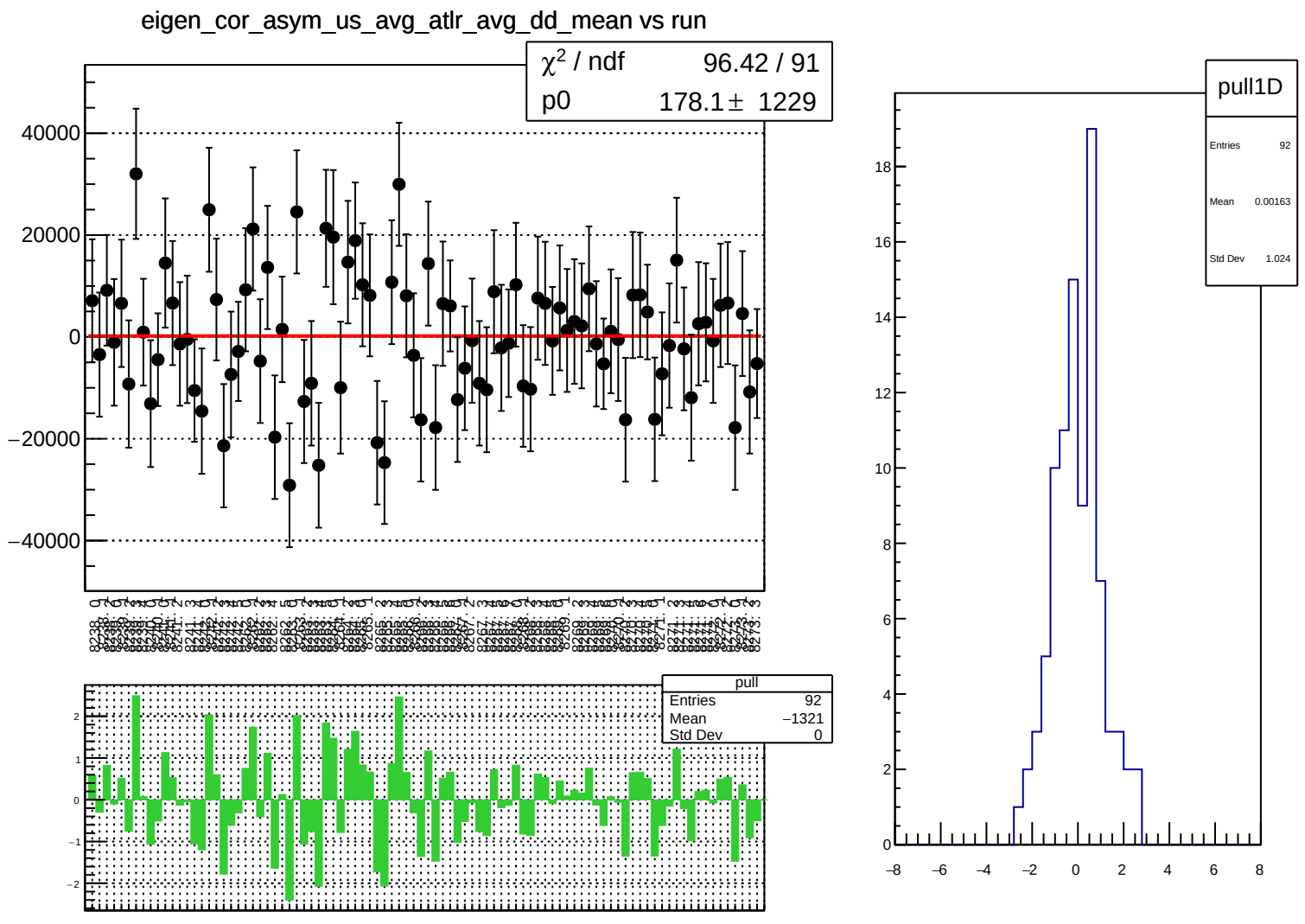
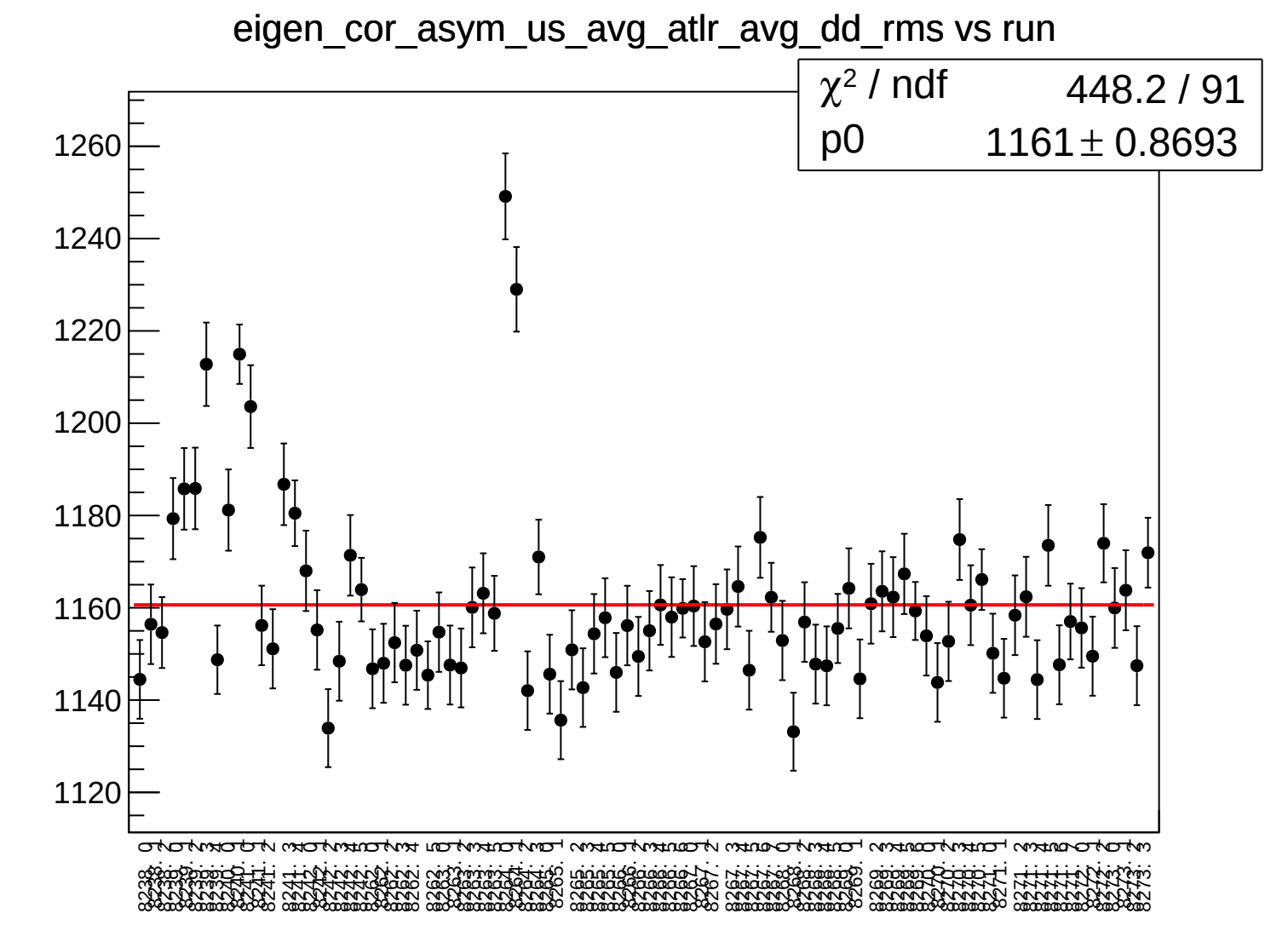
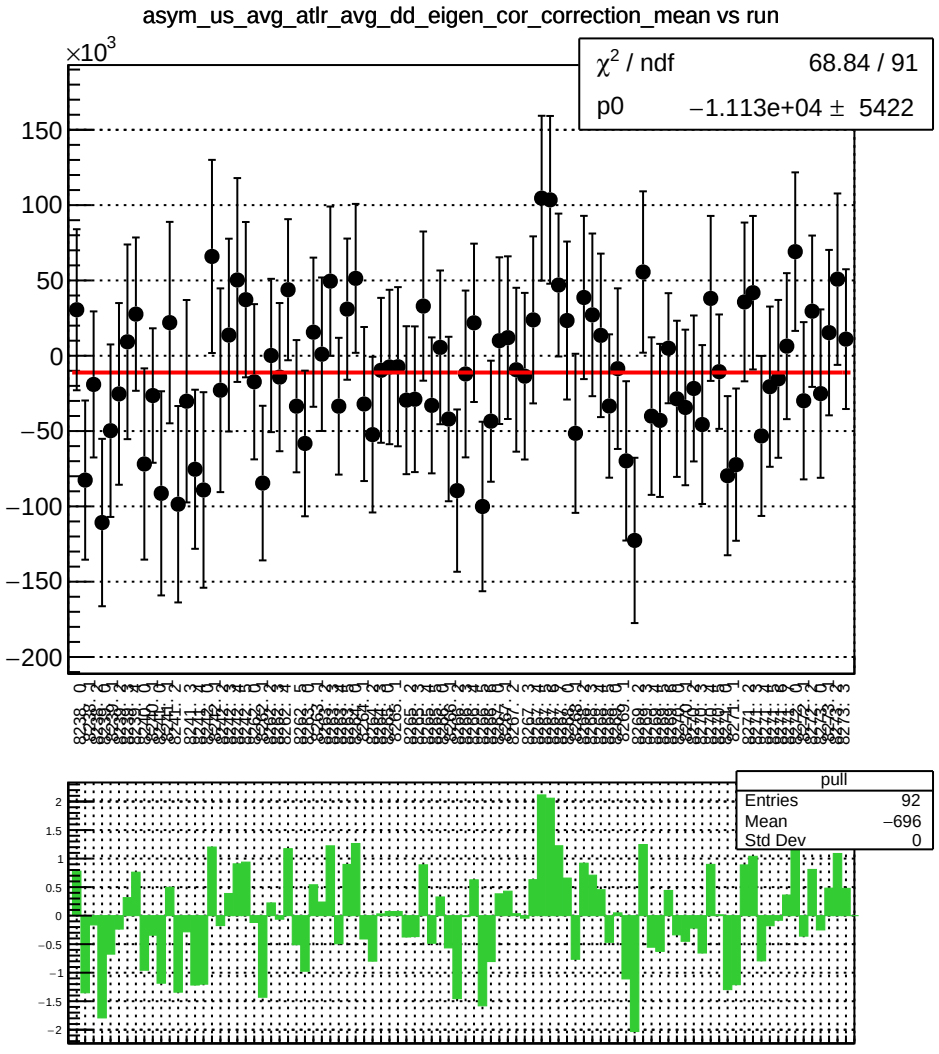
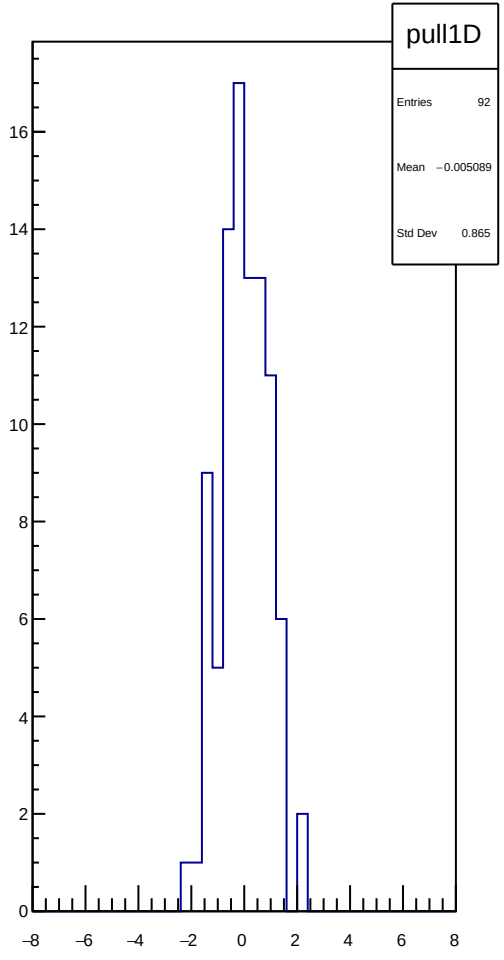
0
2
4
6
8

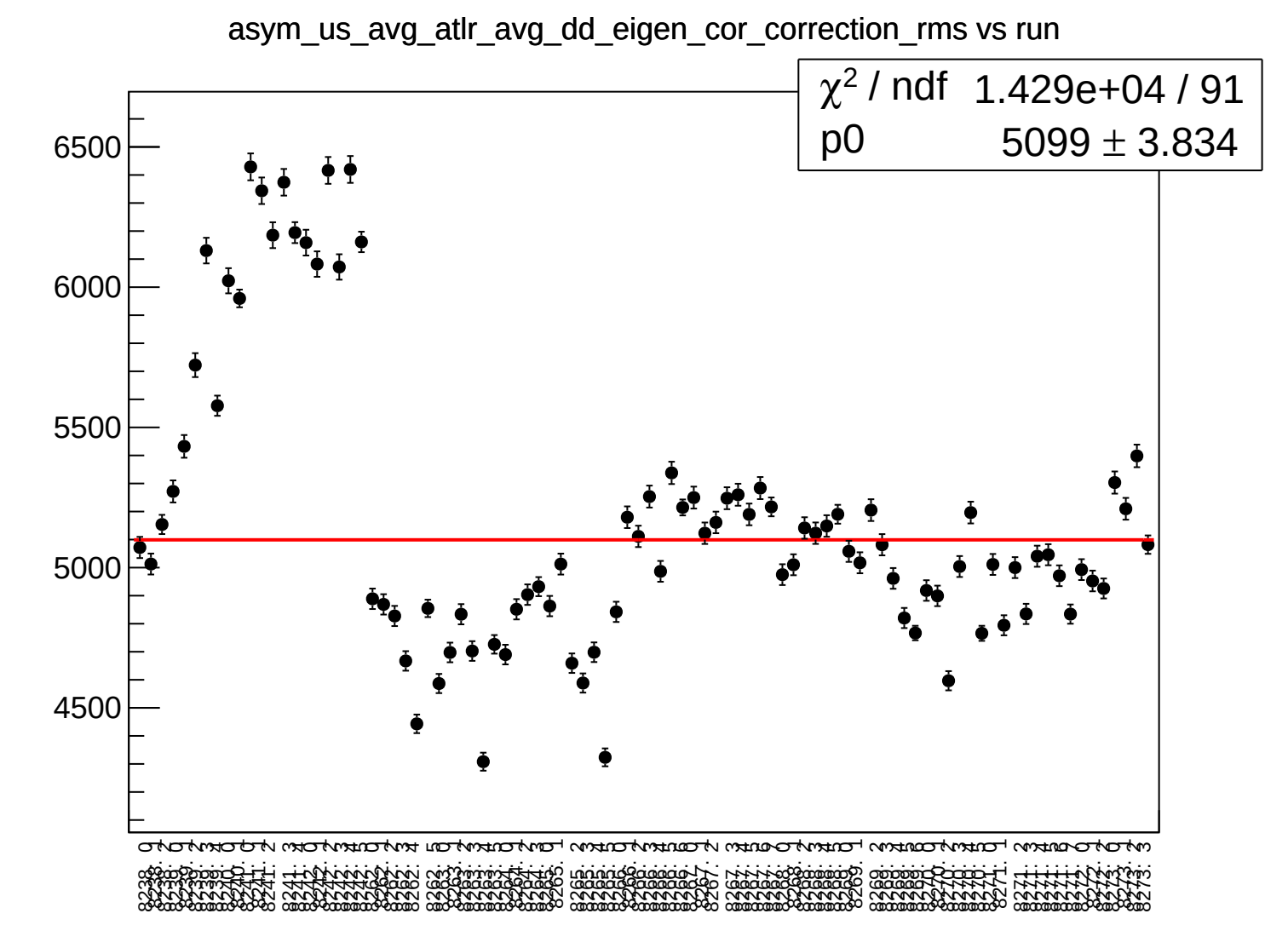

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.429e+04 / 91
p0 5099 ± 3.834
6500
6000
5500
5000
4500

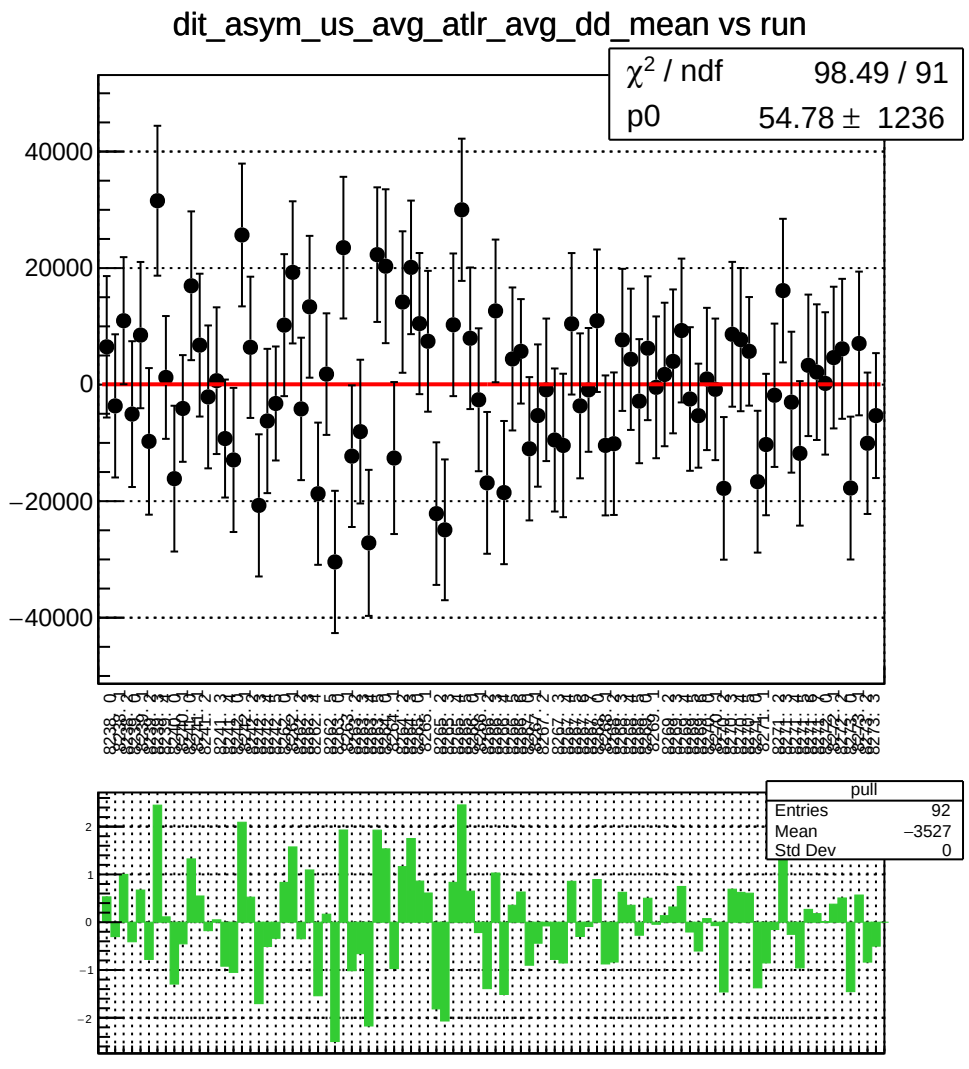

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 96.42 / 91
p0 178.1± 1229
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −1321
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.00163
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

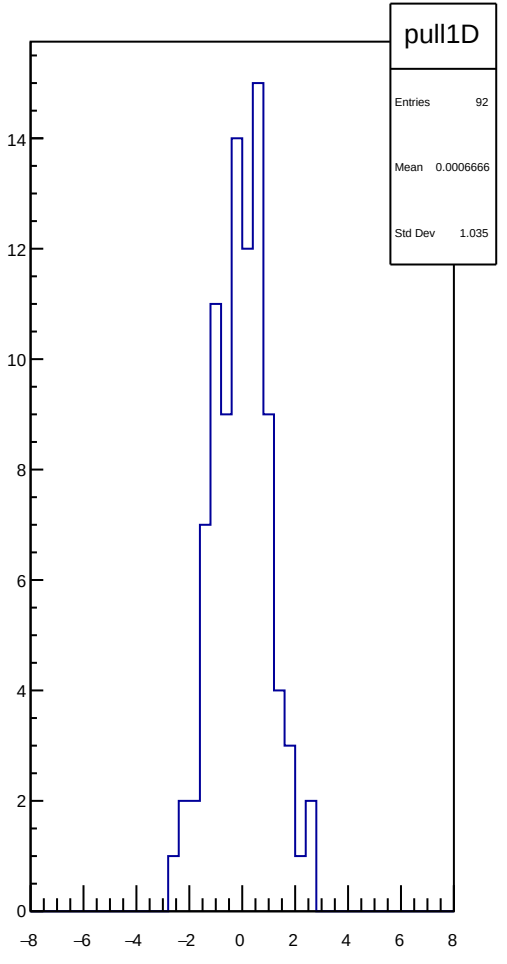

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 448.2 / 91
p0 1161 ± 0.8693
1260
1240
1220
1200
1180
1160
1140
1120

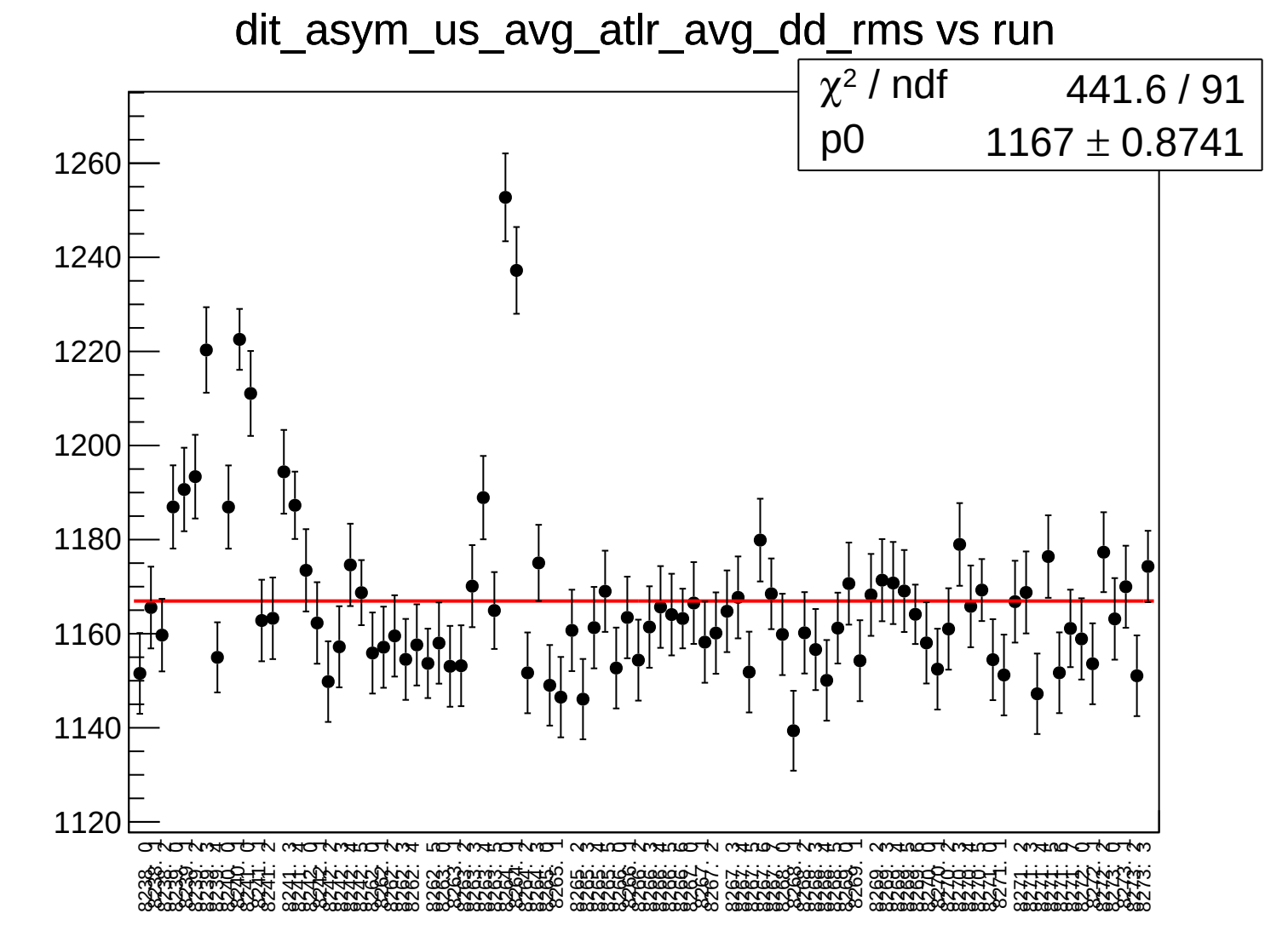

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 68.84 / 91
p0 −1.113e+04 ± 5422
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −696
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

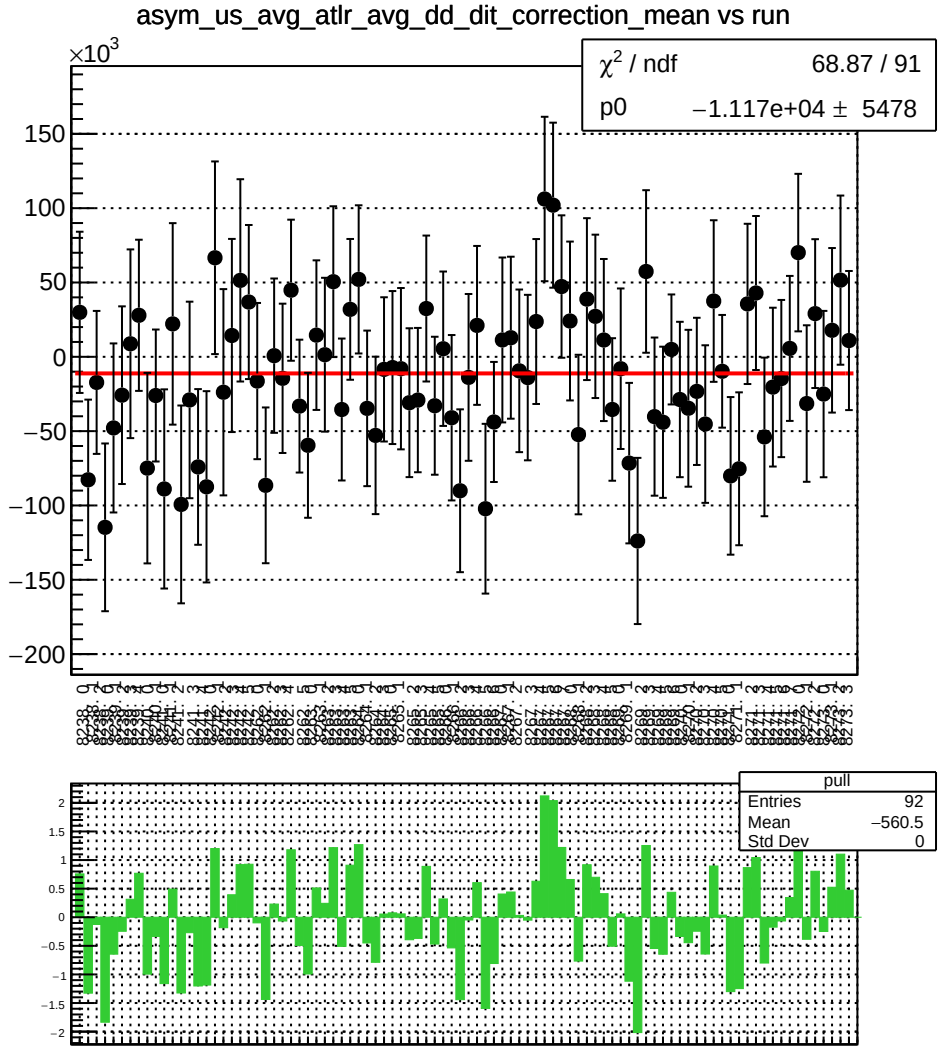

pull1D
Entries 92
Mean −0.005089
Std Dev 0.865
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

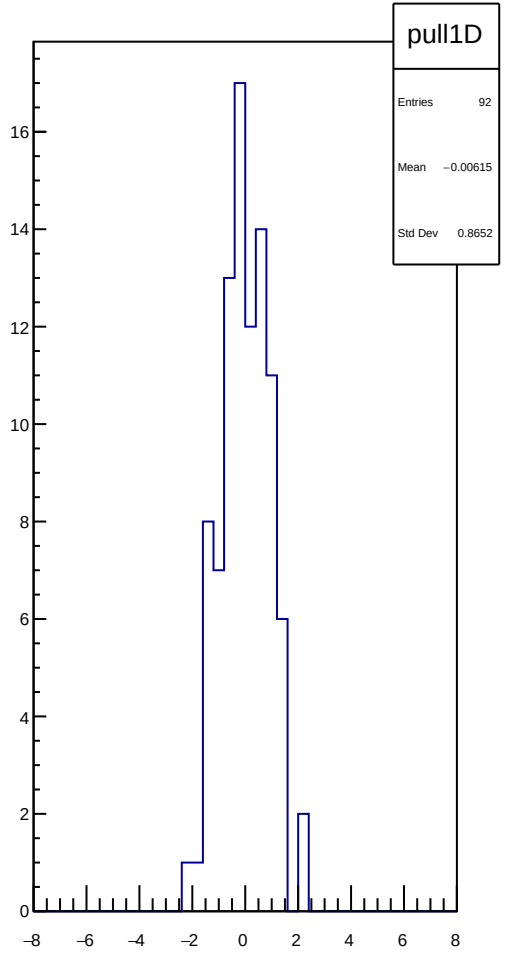

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.429e+04 / 91
p0 5099 ± 3.834
6500
6000
5500
5000
4500

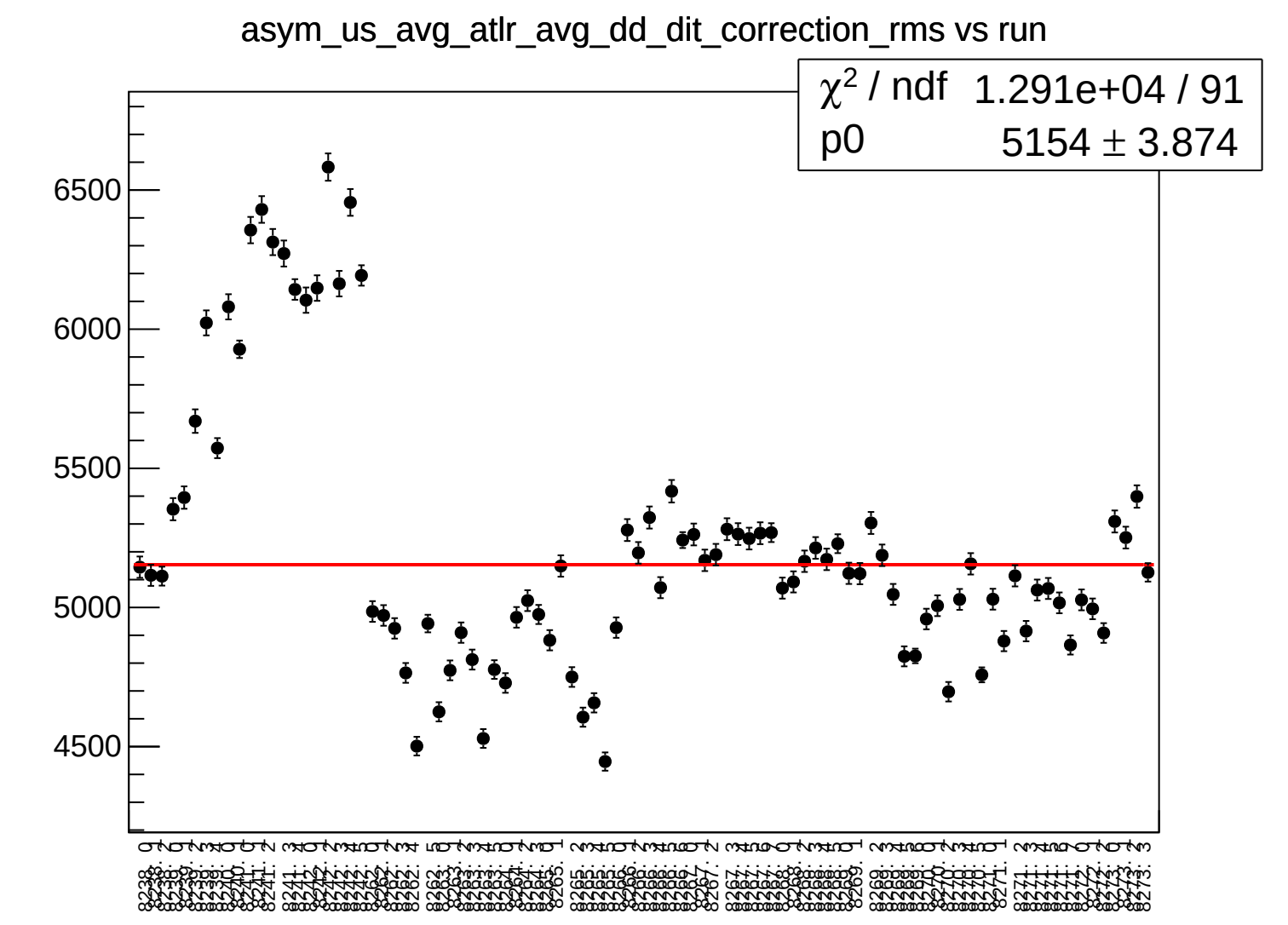

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 98.49 / 91
p0 54.78 ± 1236
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −3527
Std Dev 0
2
1
0
−1
−2

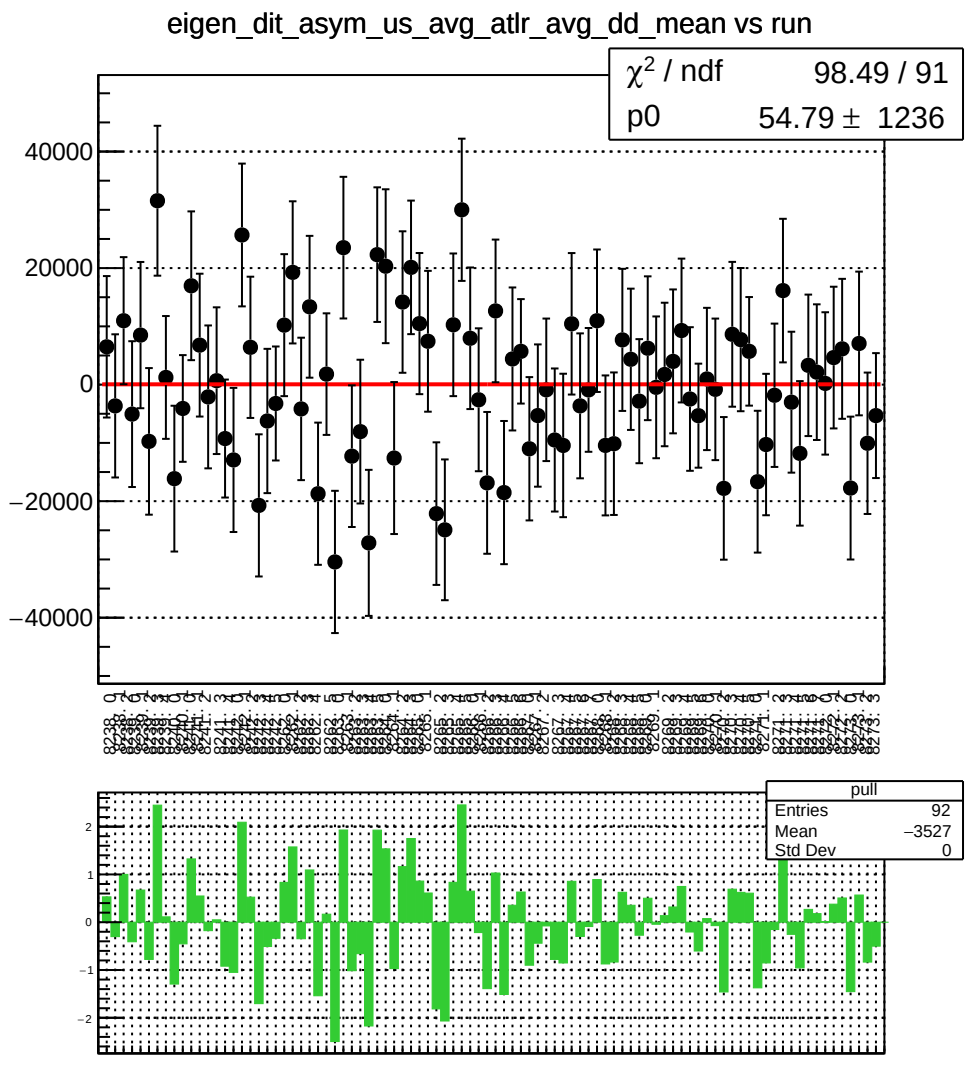

pull1D
Entries 92
Mean 0.0006666
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

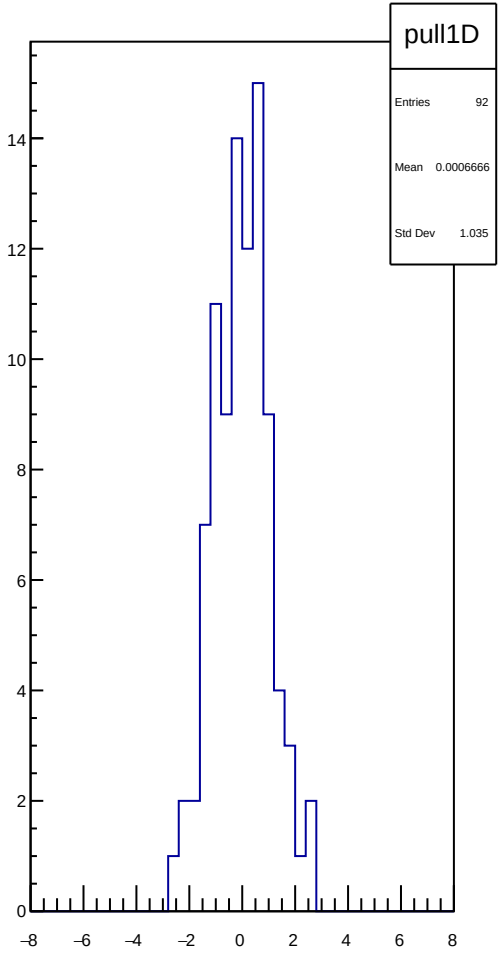

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 441.6 / 91
p0 1167 ± 0.8741
1260
1240
1220
1200
1180
1160
1140
1120

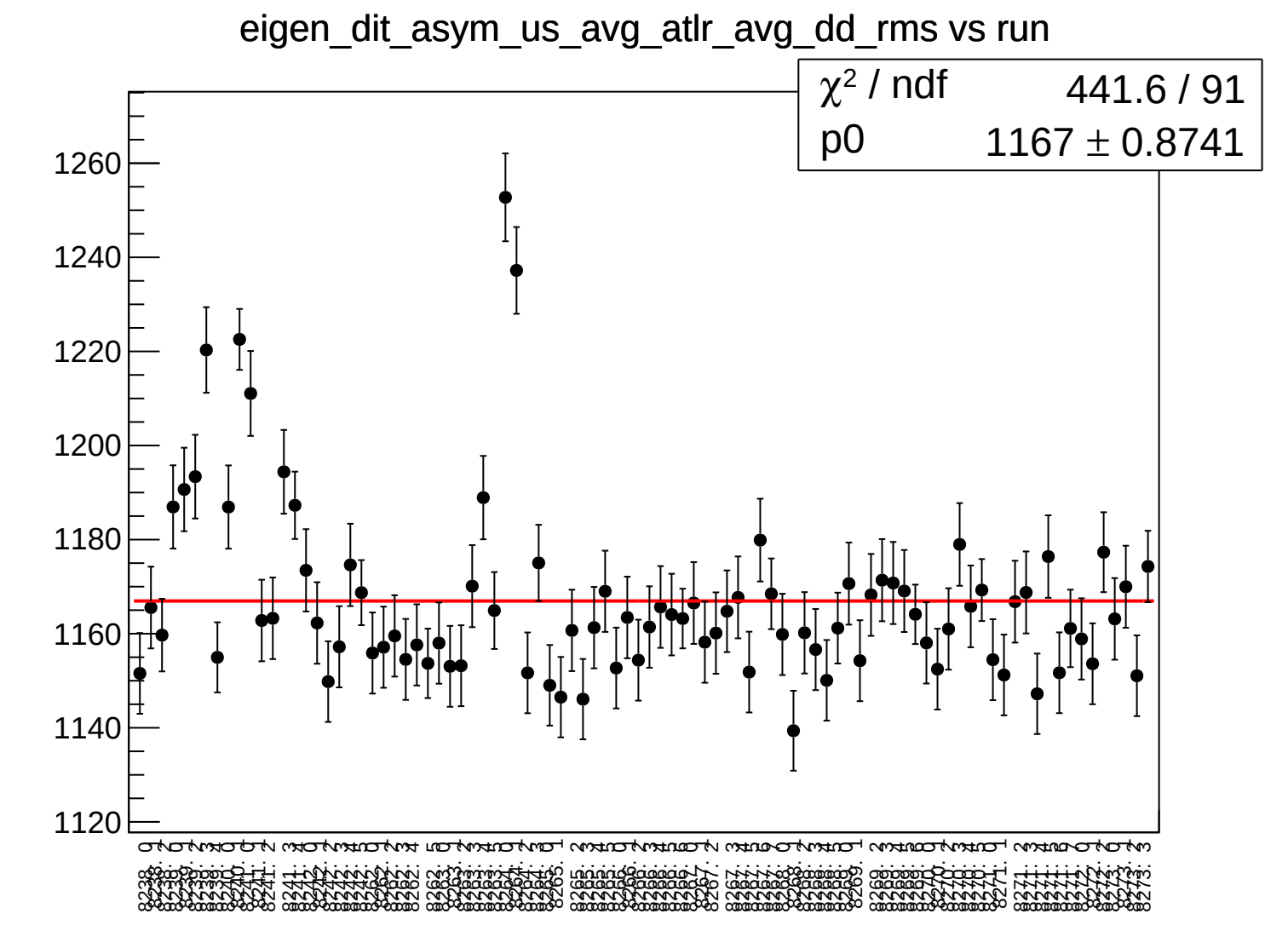

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 68.87 / 91
p0 −1.117e+04 ± 5478
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −560.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

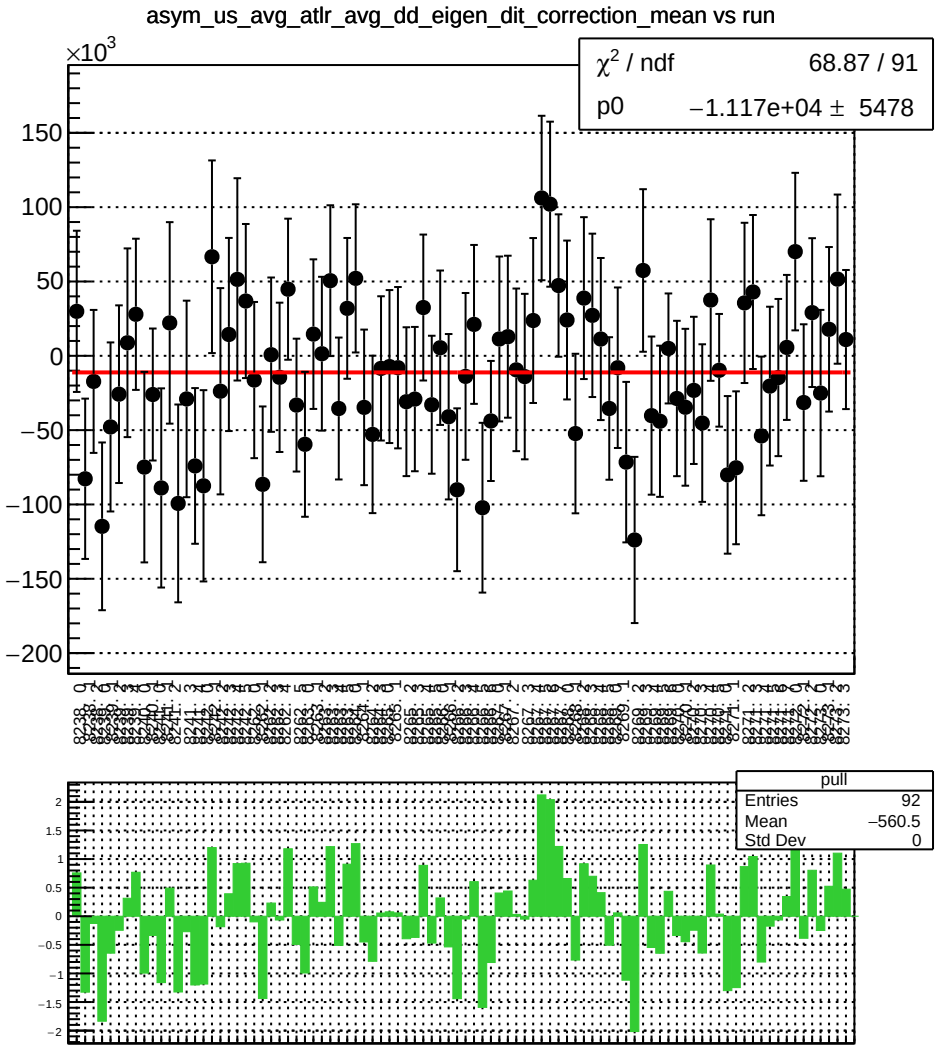

pull1D
Entries 92
Mean −0.00615
Std Dev 0.8652
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

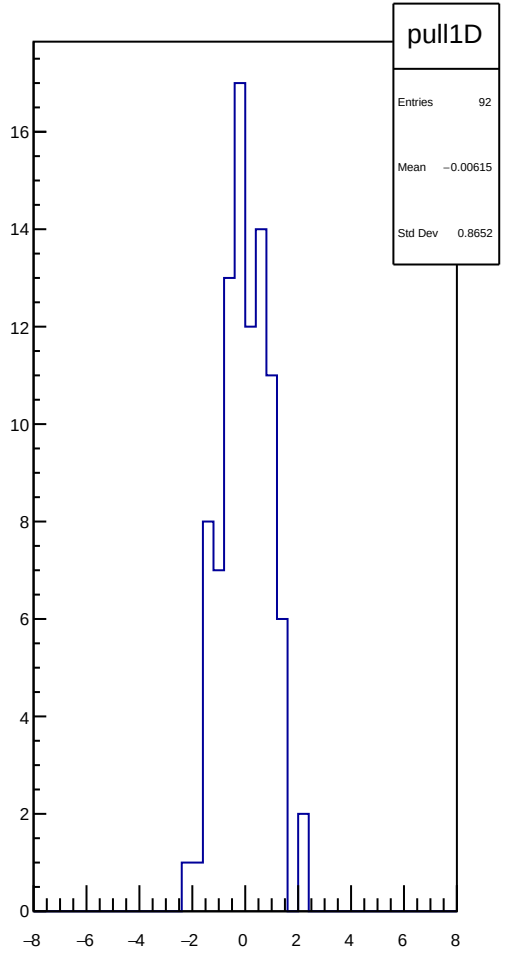

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.291e+04 / 91
p0 5154 ± 3.874
6500
6000
5500
5000
4500

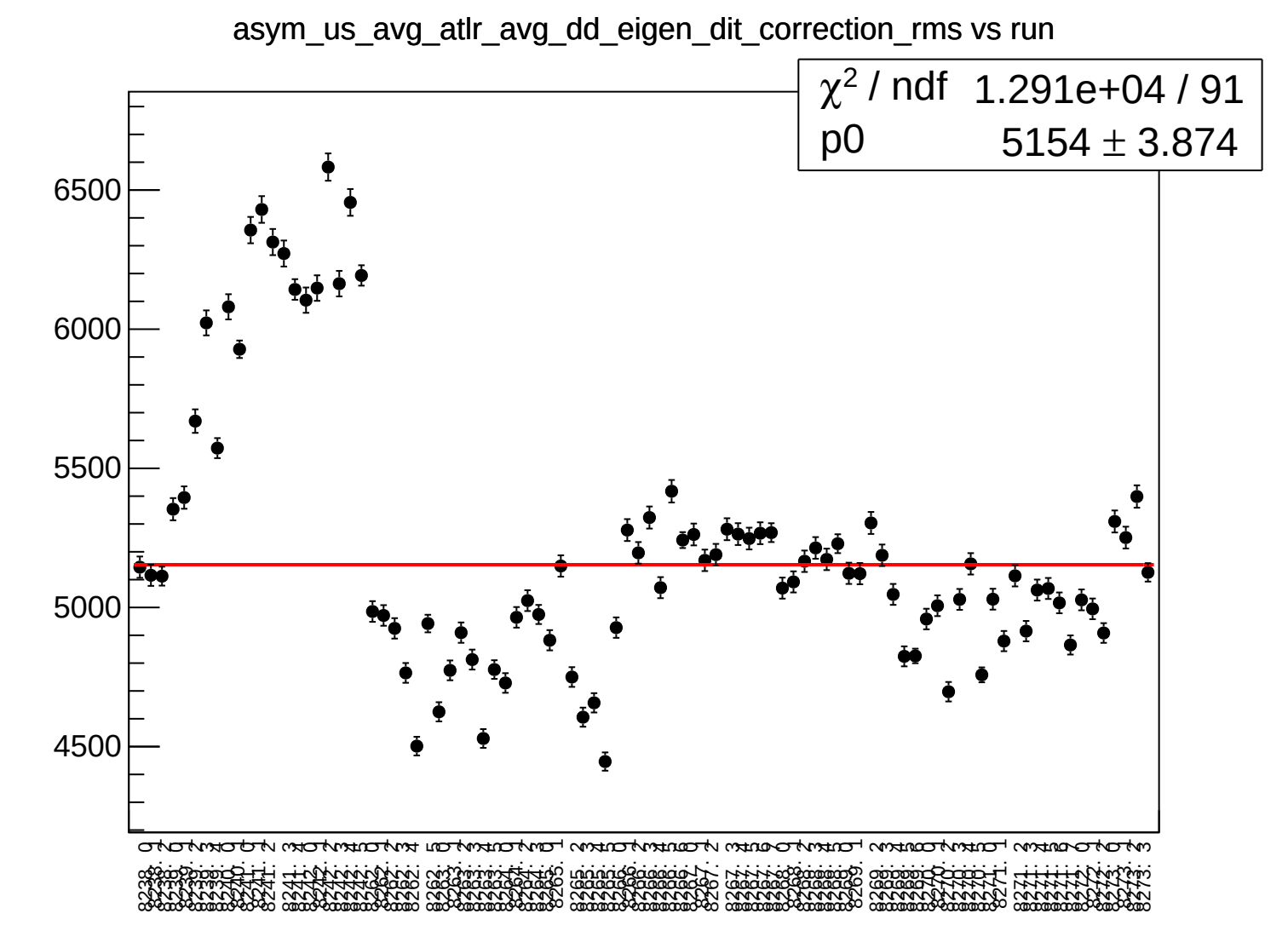

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 98.49 / 91
p0 54.79 ± 1236
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −3527
Std Dev 0
2
1
0
−1
−2

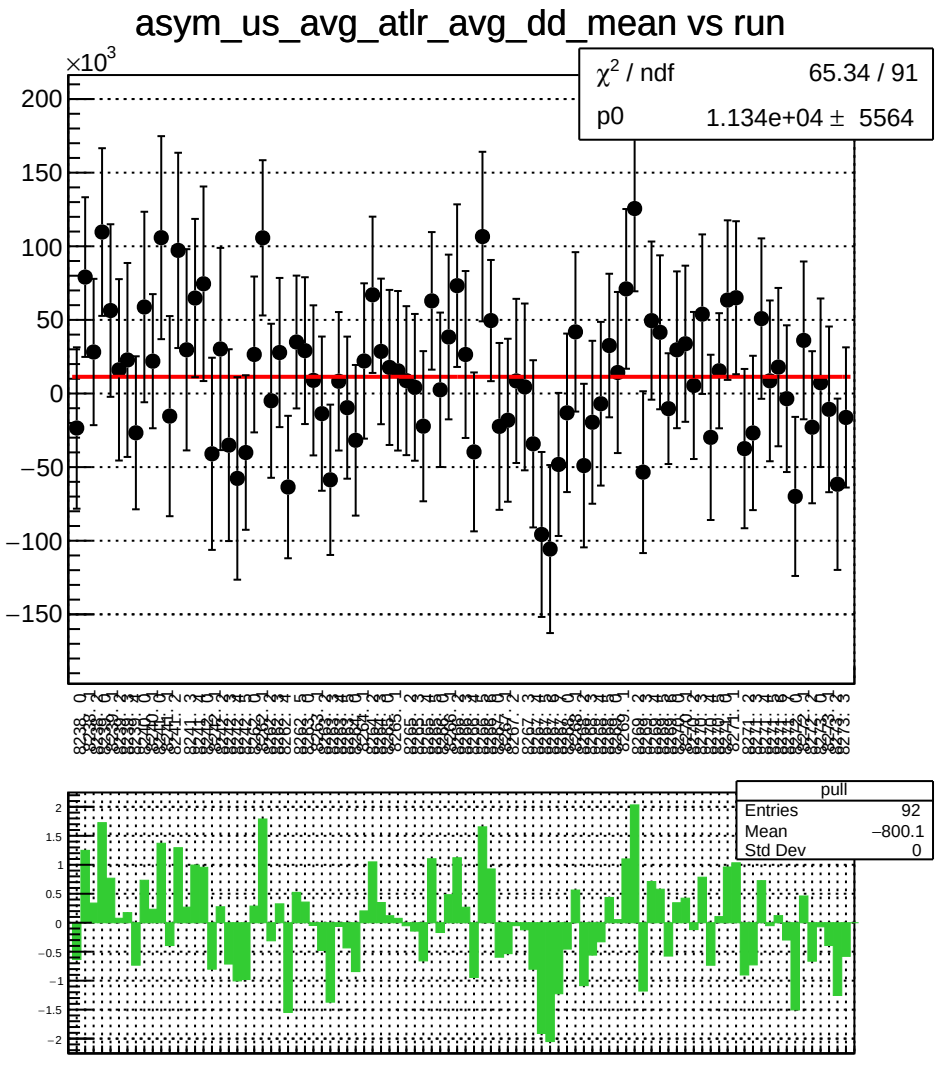

pull1D
Entries 92
Mean 0.0006666
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

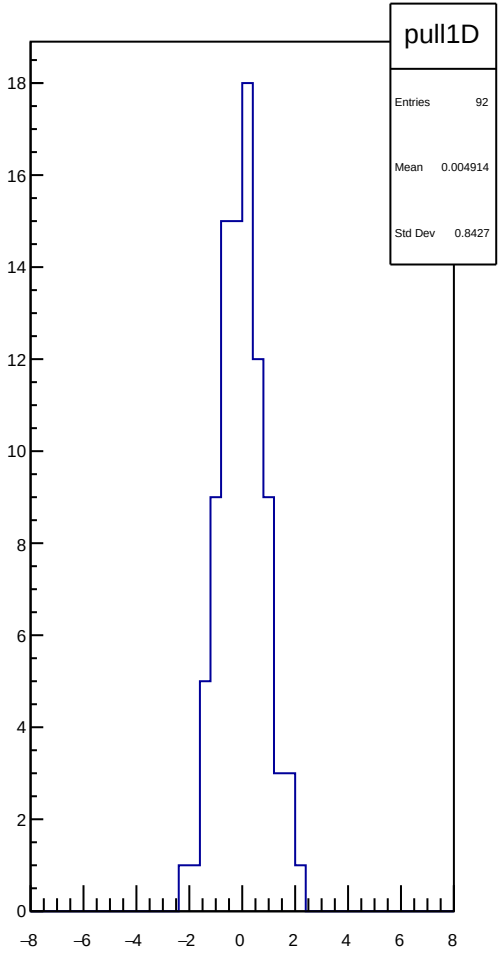

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 441.6 / 91
p0 1167 ± 0.8741
1260
1240
1220
1200
1180
1160
1140
1120

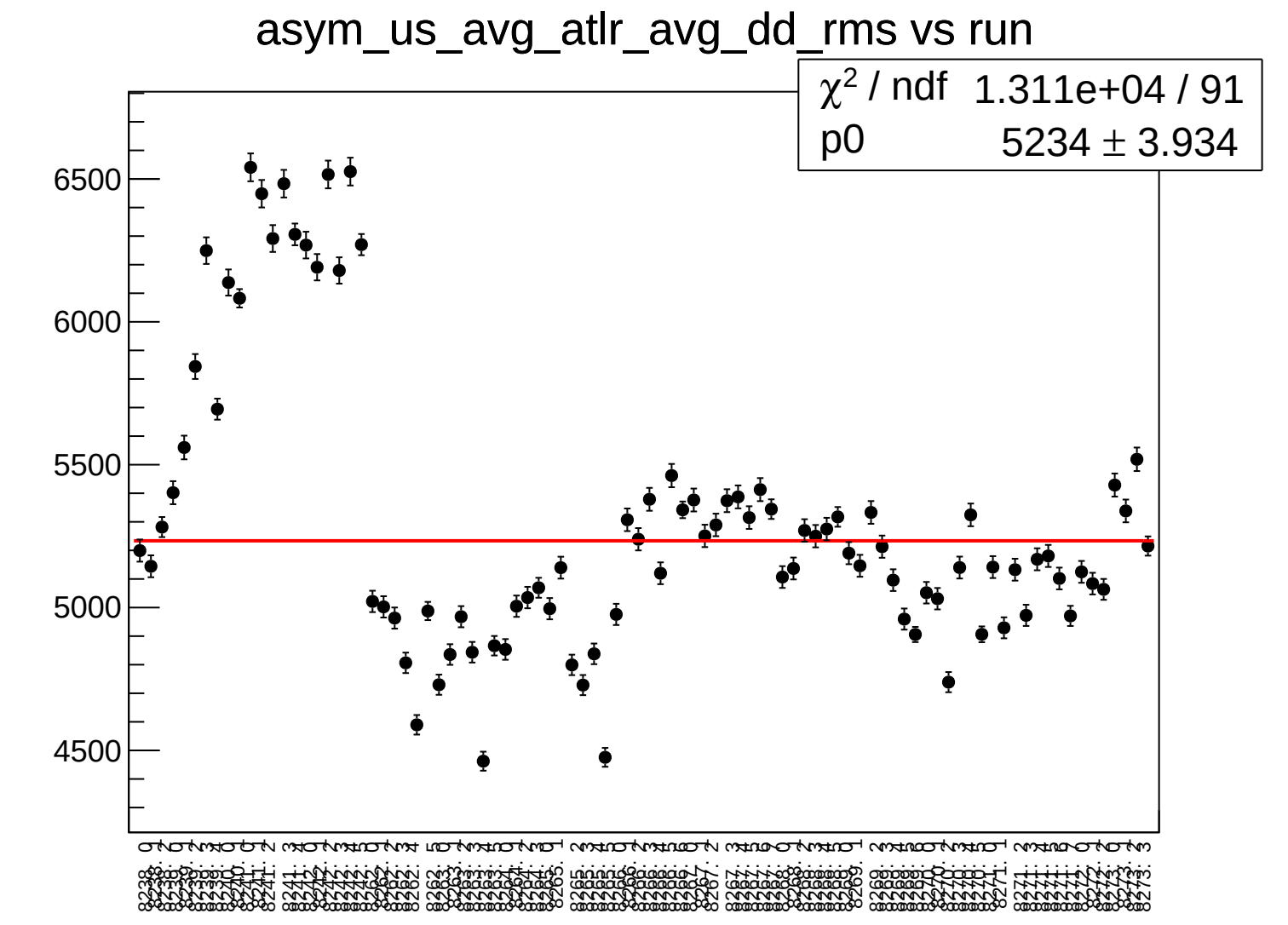

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.87 / 91
p0 −1.117e+04 ± 5478
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −560.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

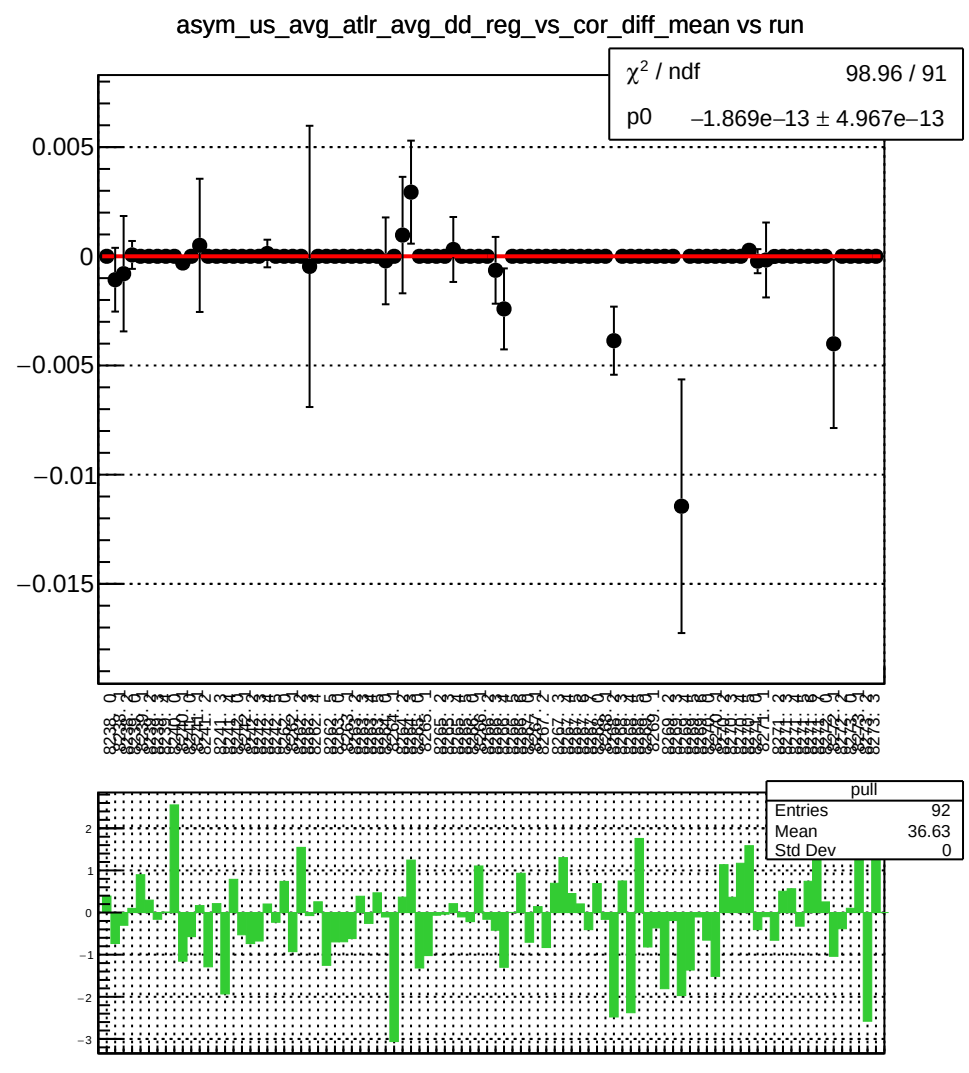

pull1D
Entries 92
Mean −0.00615
Std Dev 0.8652
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

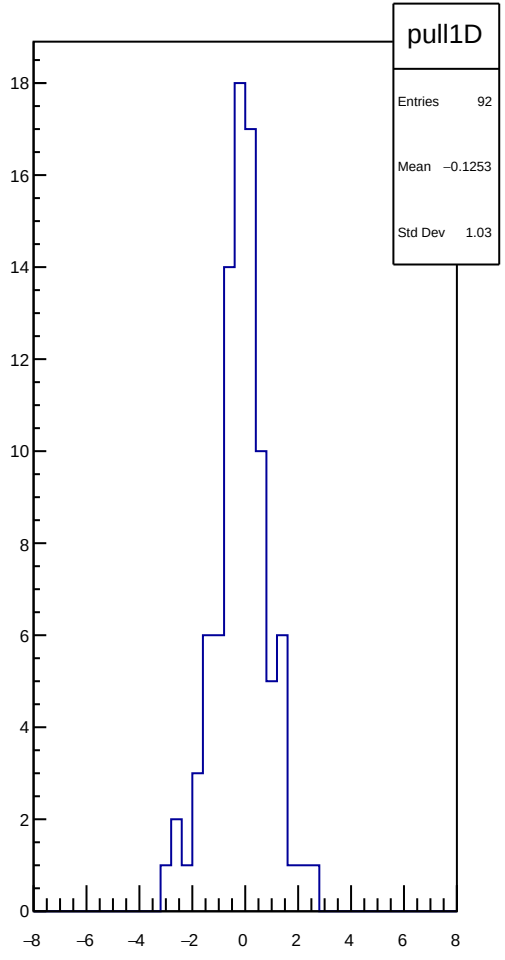

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.291e+04 / 91
p0 5154 ± 3.874
6500
6000
5500
5000
4500

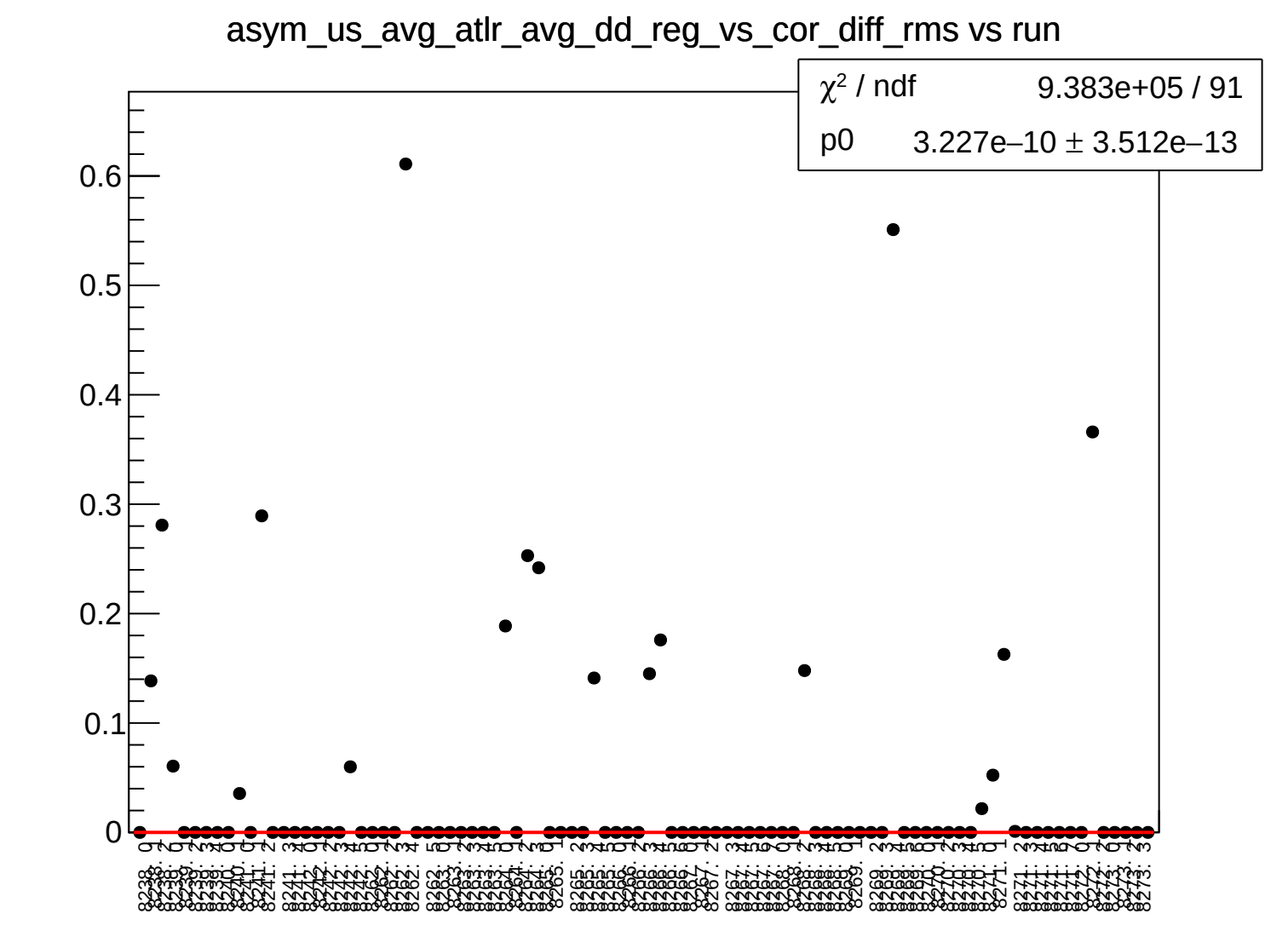

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 65.34 / 91
p0 1.134e+04 ± 5564
pull
Entries 92
Mean −800.1
Std Dev 0

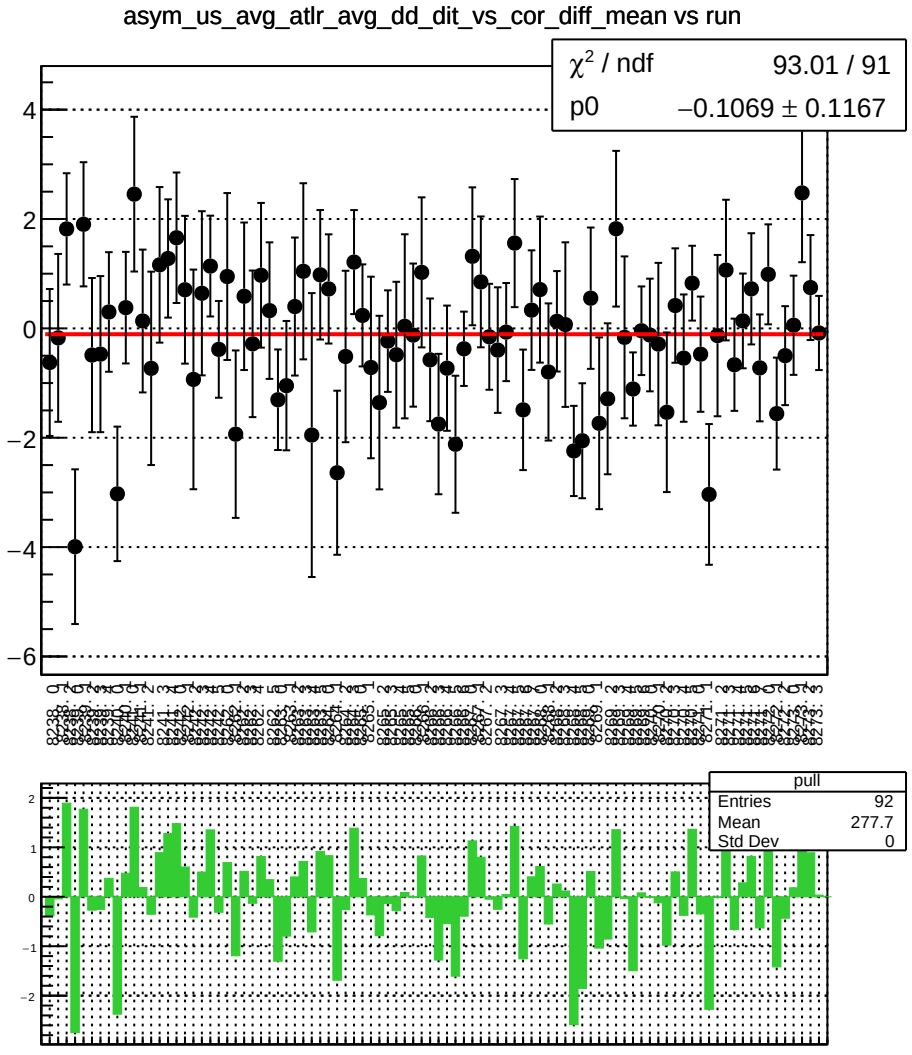

pull1D
Entries 92
Mean 0.004914
Std Dev 0.8427

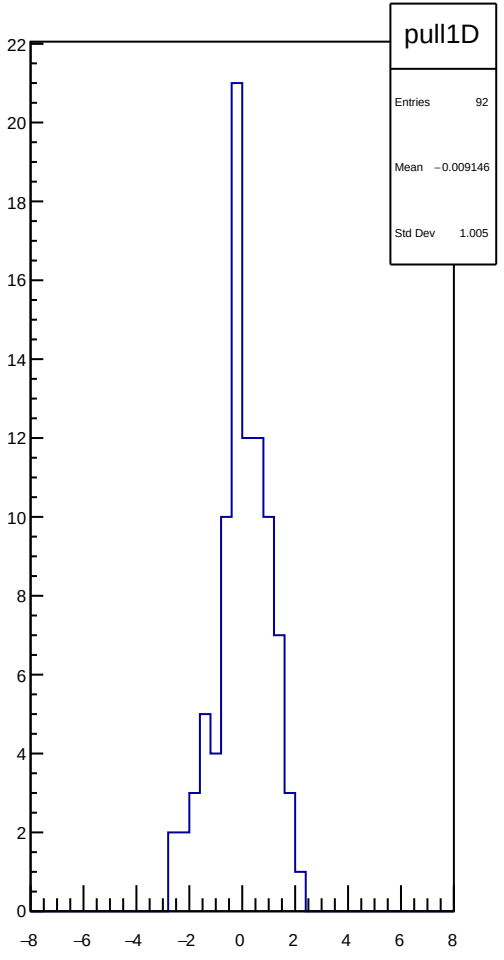

asym_us_avg_atlr_avg_dd_rms vs run
$\chi^2$ / ndf 1.311e+04 / 91
p0 5234 ± 3.934
6500
6000
5500
5000
4500

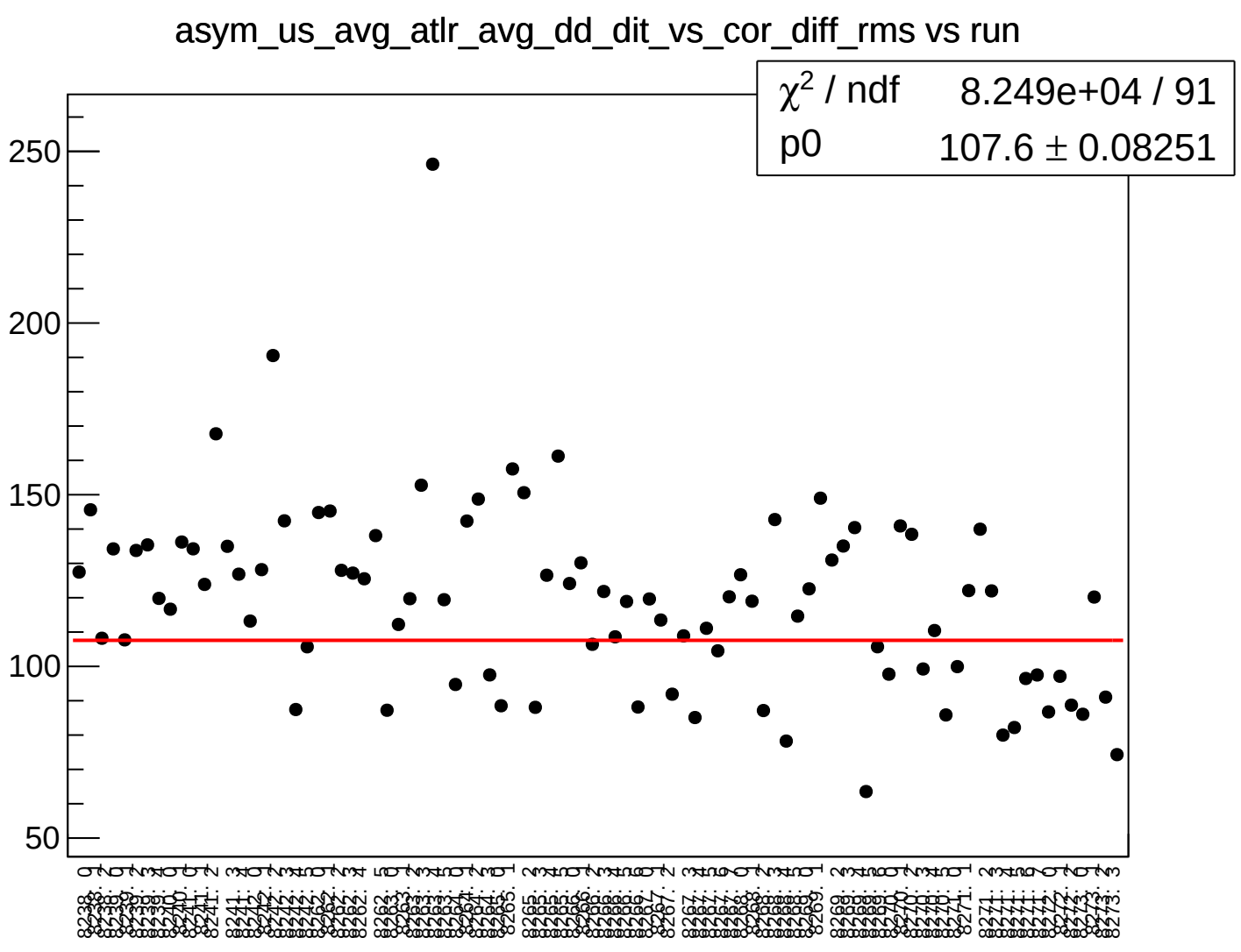

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.96 / 91
p0 −1.869e−13 ± 4.967e−13
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean 36.63
Std Dev 0
2
1
0
−1
−2
−3

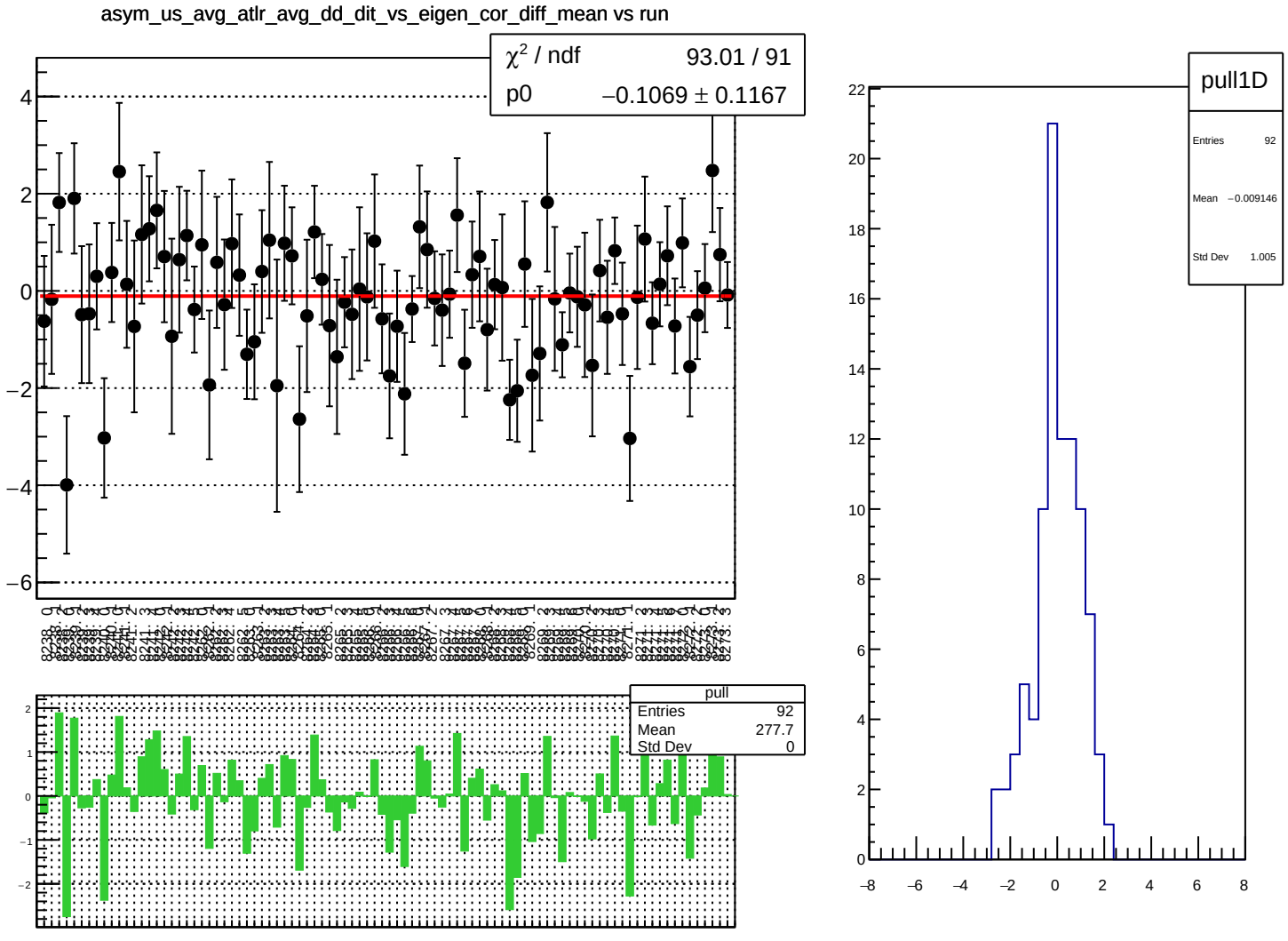

pull1D
Entries 92
Mean −0.1253
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

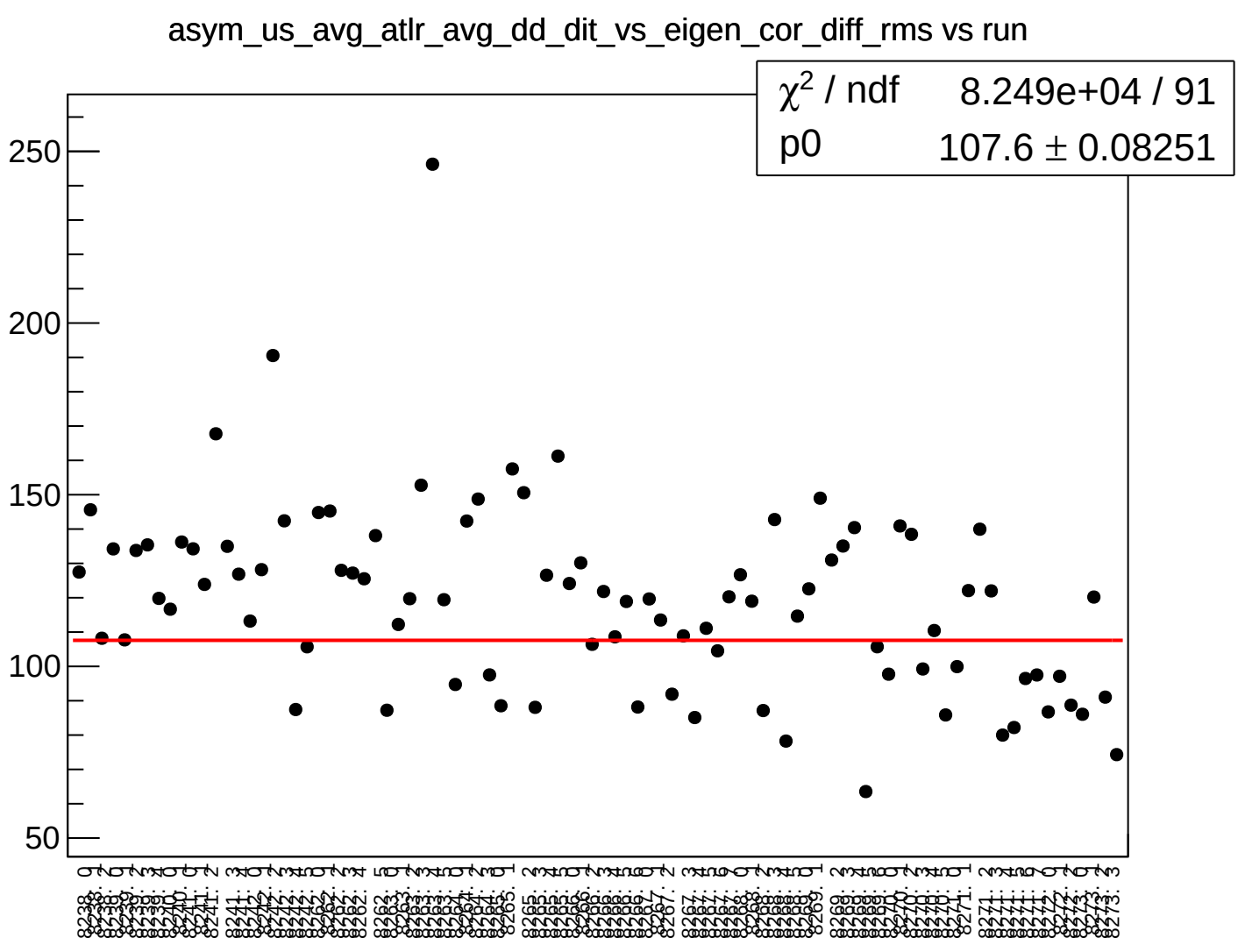

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.383e+05 / 91
p0 3.227e−10 ± 3.512e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

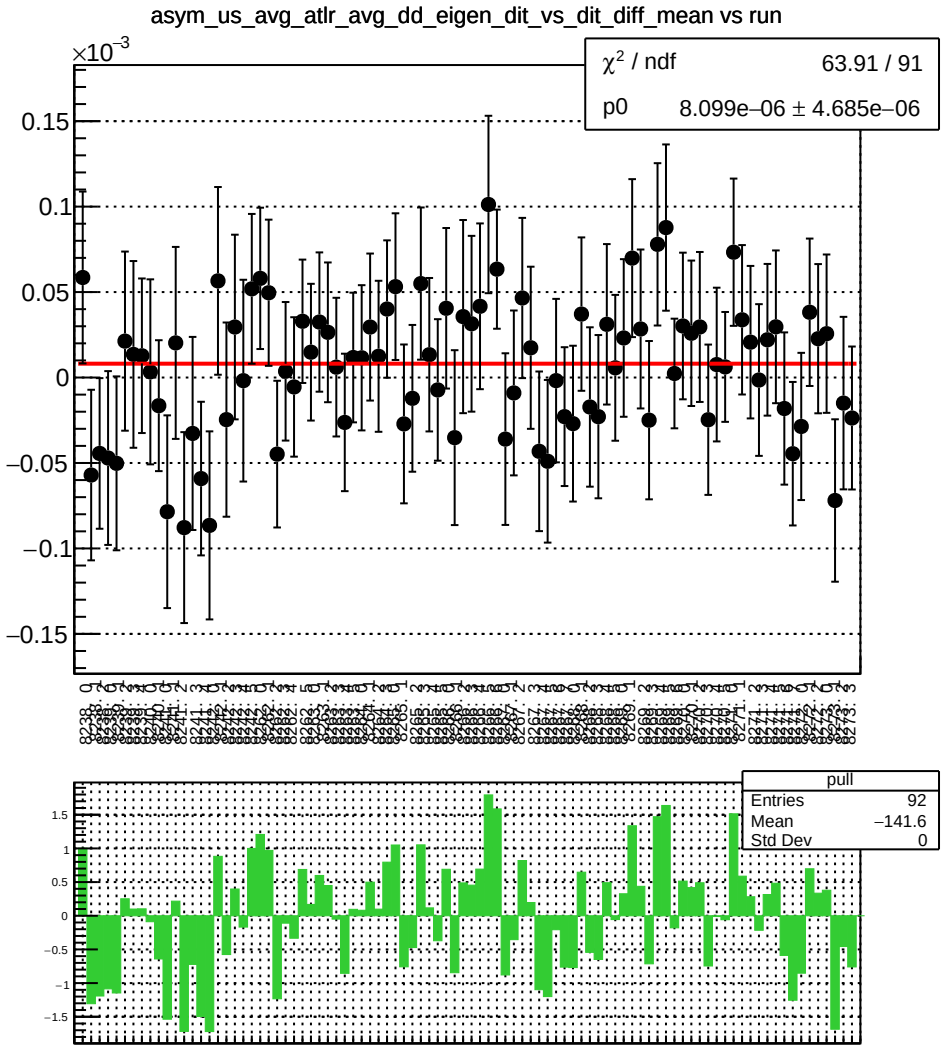

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.01 / 91
p0 −0.1069 ± 0.1167
pull
Entries 92
Mean 277.7
Std Dev 0

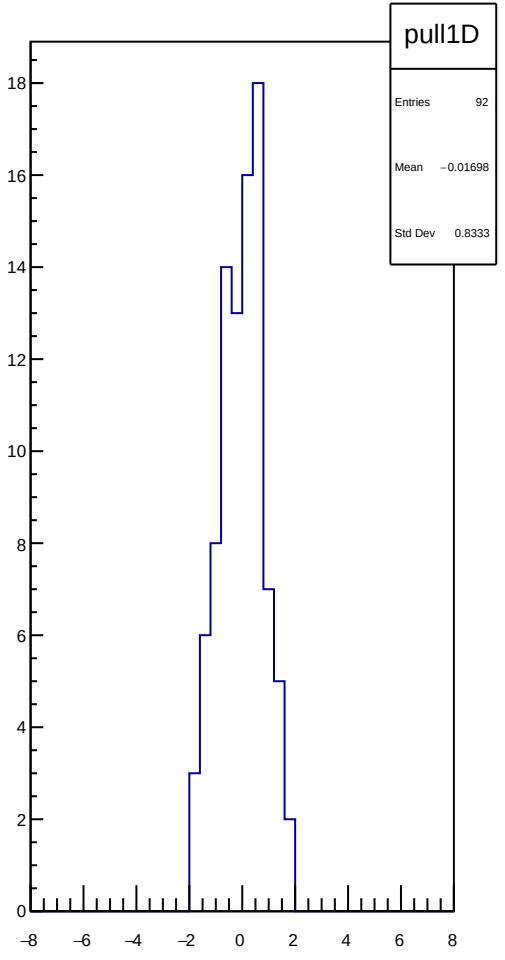

pull1D
Entries 92
Mean −0.009146
Std Dev 1.005

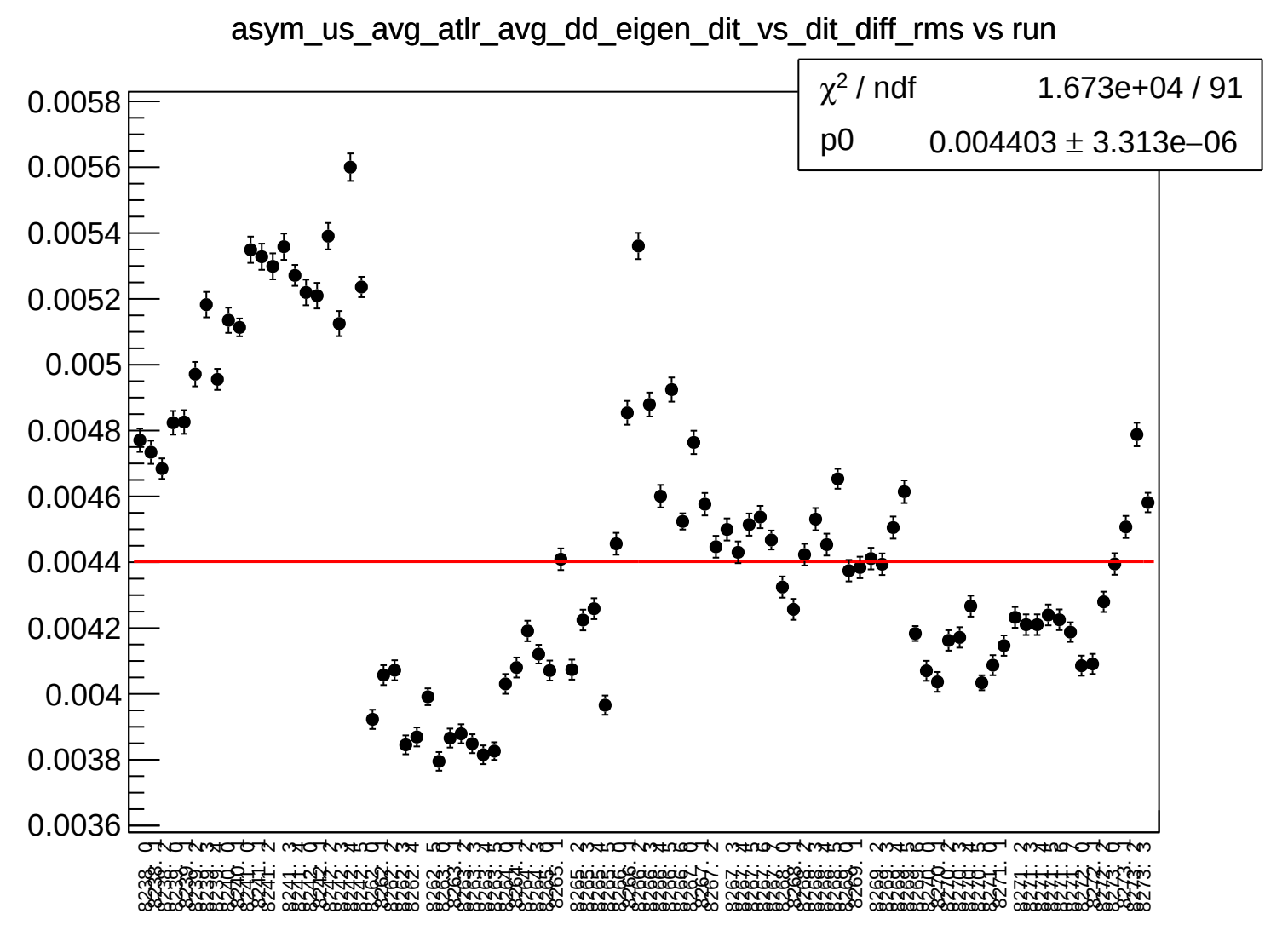

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.249e+04 / 91
p0 107.6 ± 0.08251
250
200
150
100
50

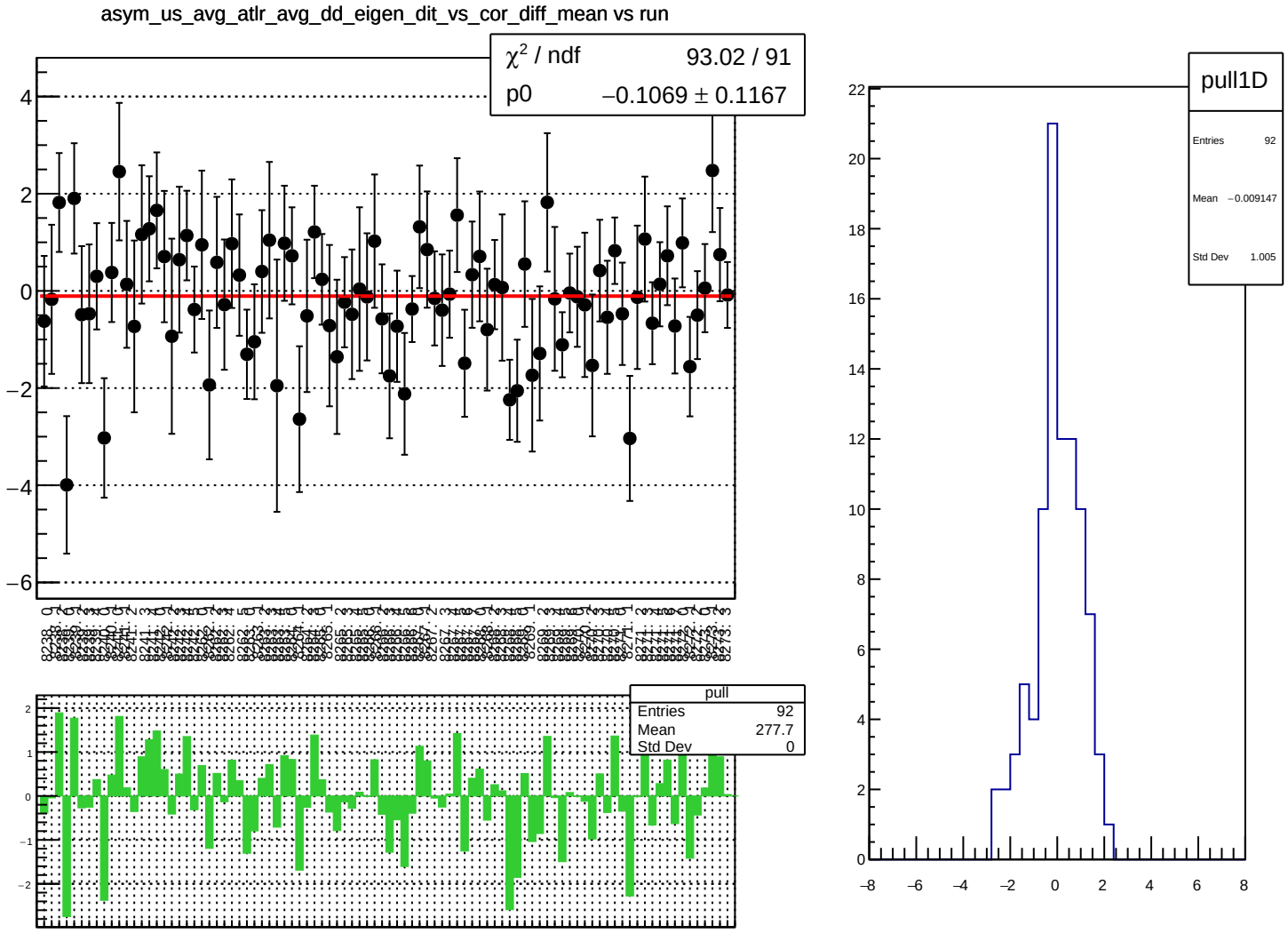

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.01 / 91
p0 −0.1069 ± 0.1167
pull
Entries 92
Mean 277.7
Std Dev 0
pull1D
Entries 92
Mean −0.009146
Std Dev 1.005

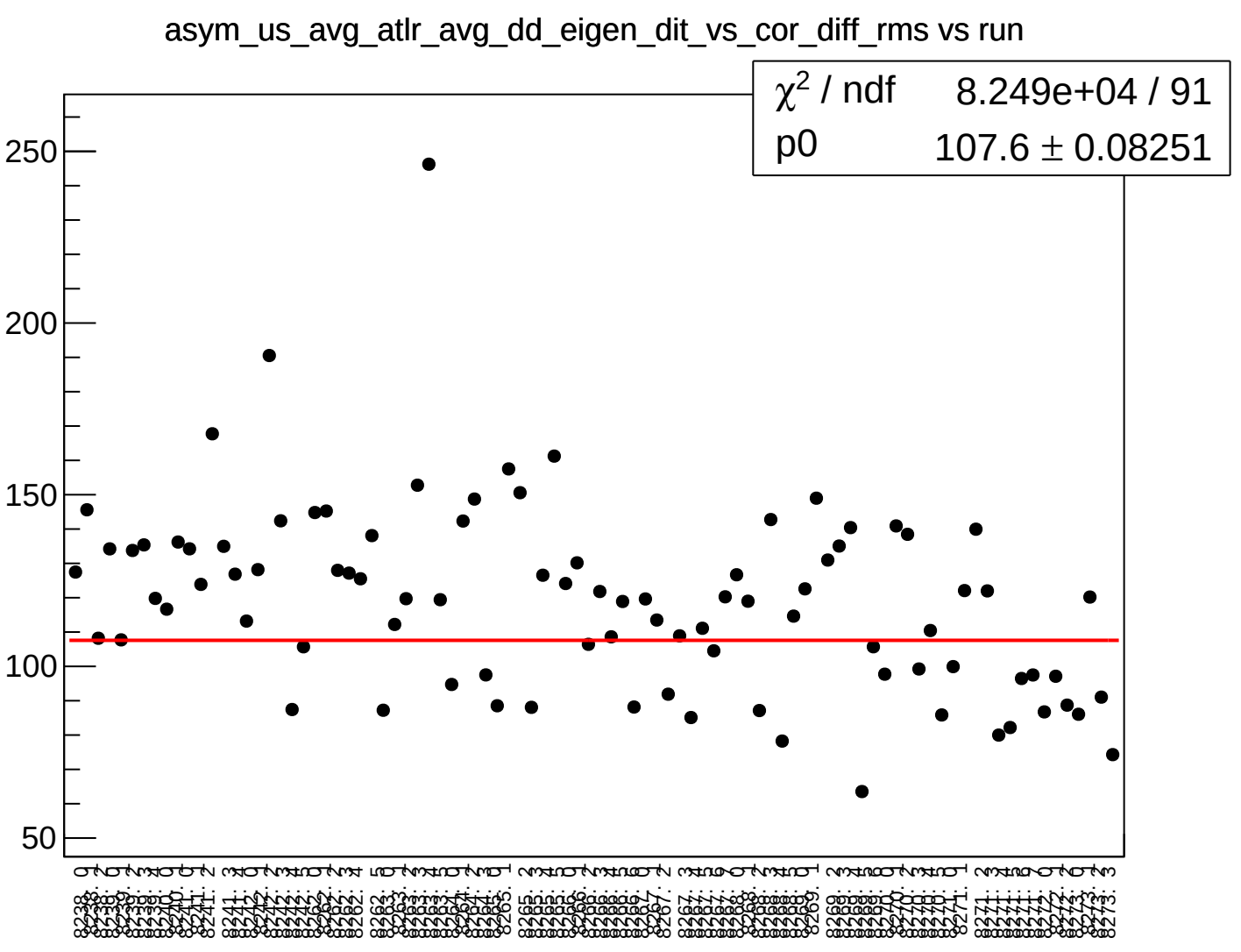

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.249e+04 / 91
p0 107.6 ± 0.08251
250
200
150
100
50

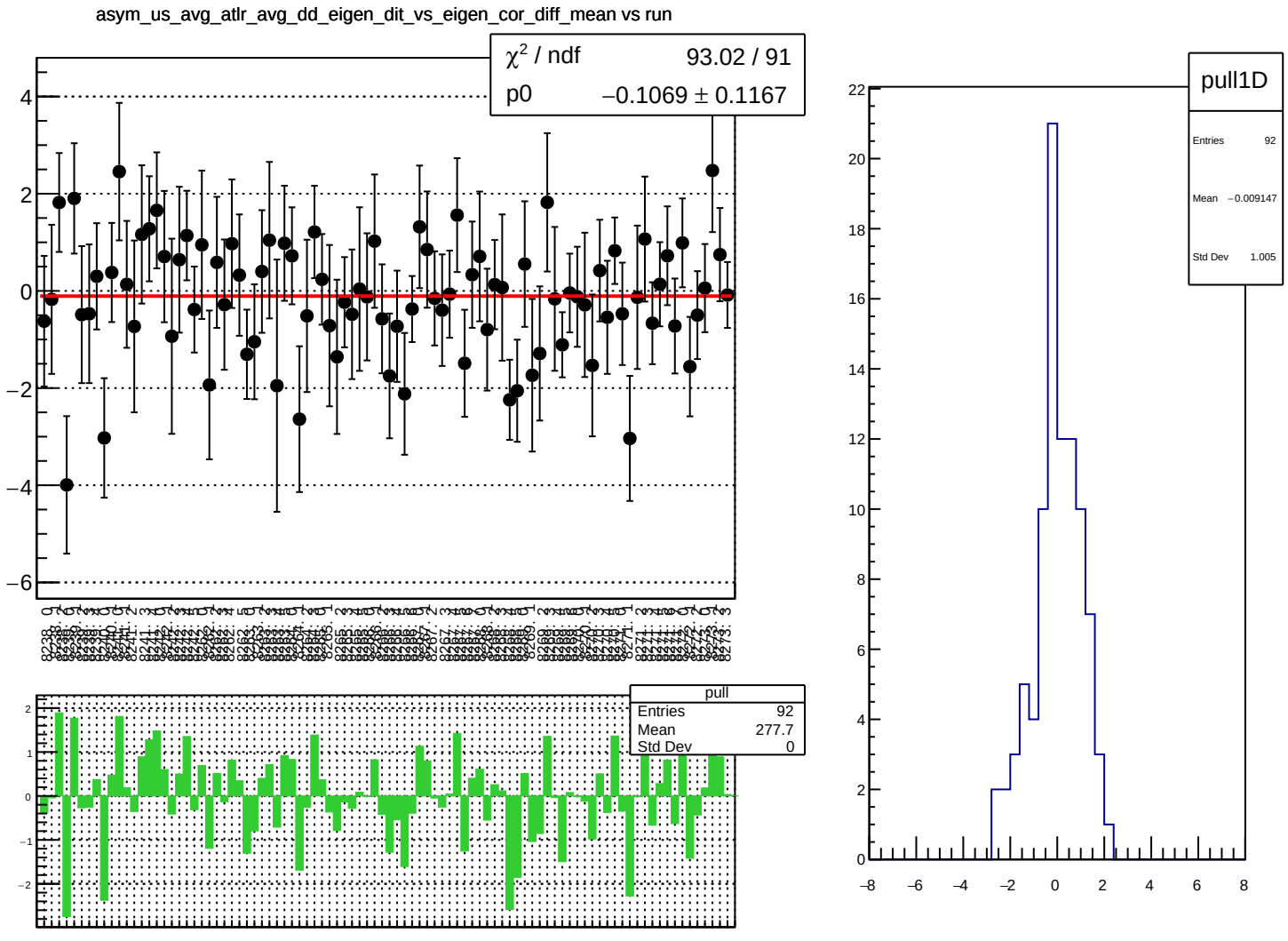

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 63.91 / 91
p0 8.099e−06 ± 4.685e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean −141.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

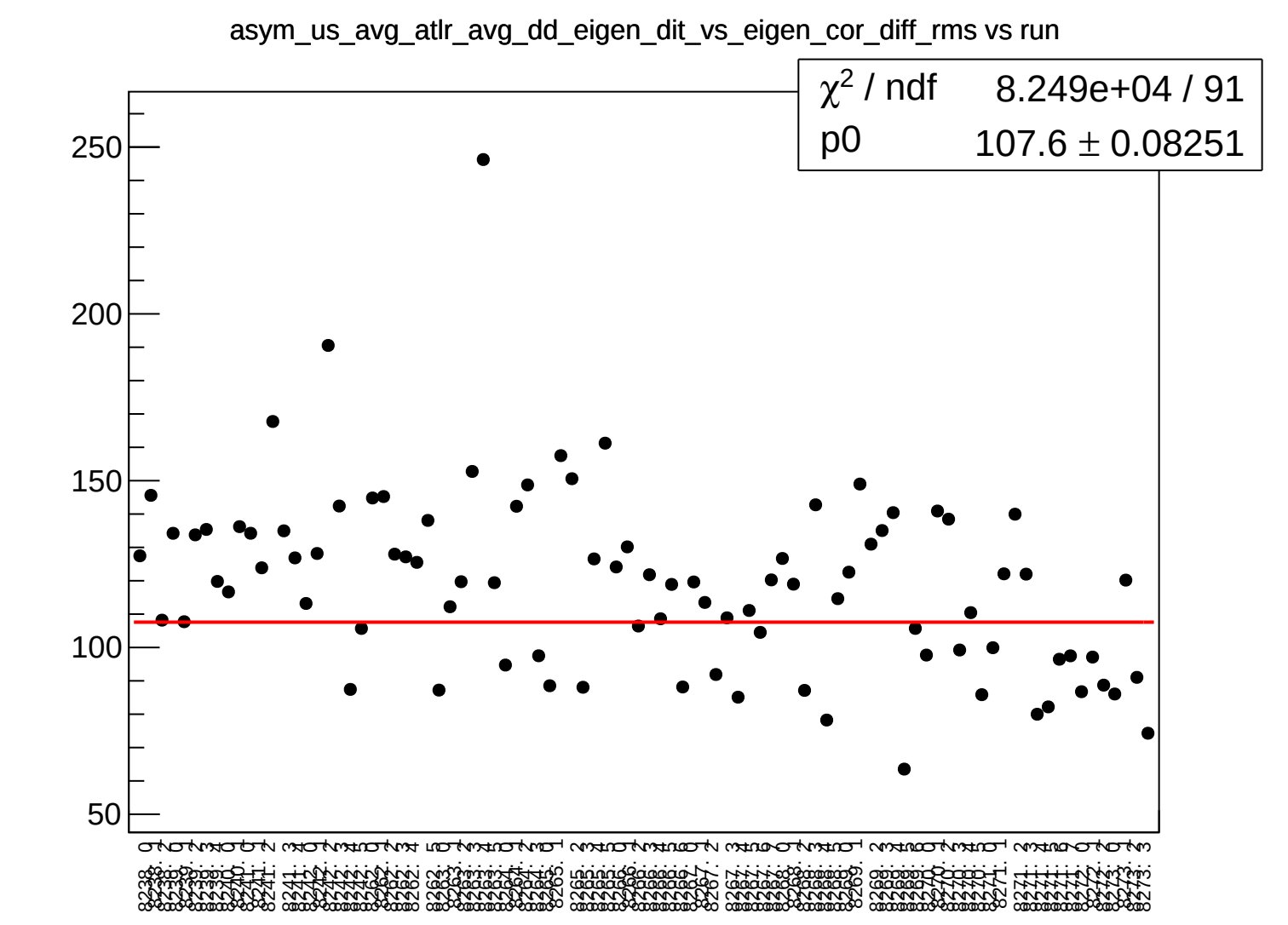

pull1D
Entries 92
Mean −0.01698
Std Dev 0.8333
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

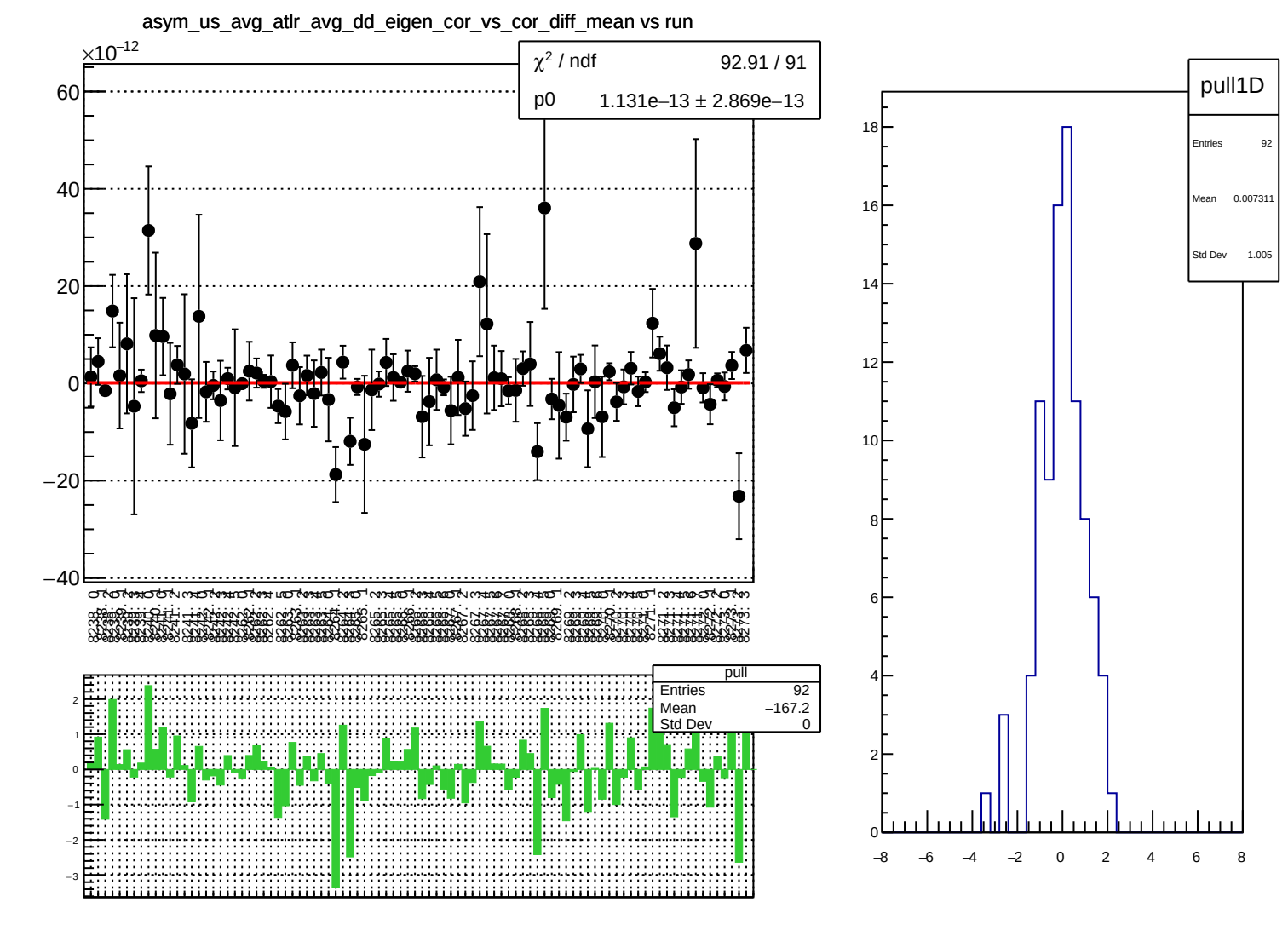

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.673e+04 / 91
p0 0.004403 ± 3.313e−06
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

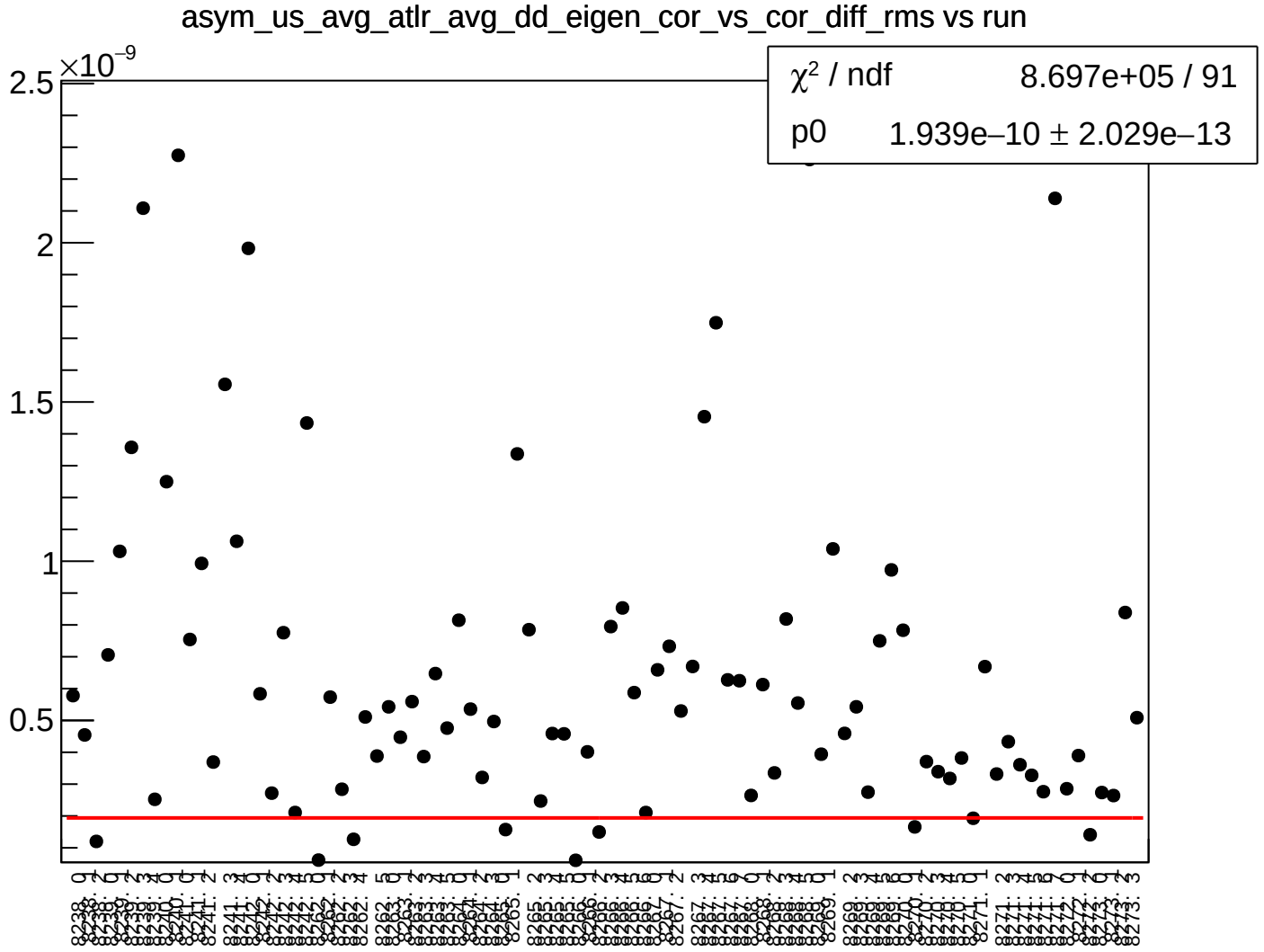

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.02 / 91
p0 −0.1069 ± 0.1167
pull
Entries 92
Mean 277.7
Std Dev 0
pull1D
Entries 92
Mean −0.009147
Std Dev 1.005

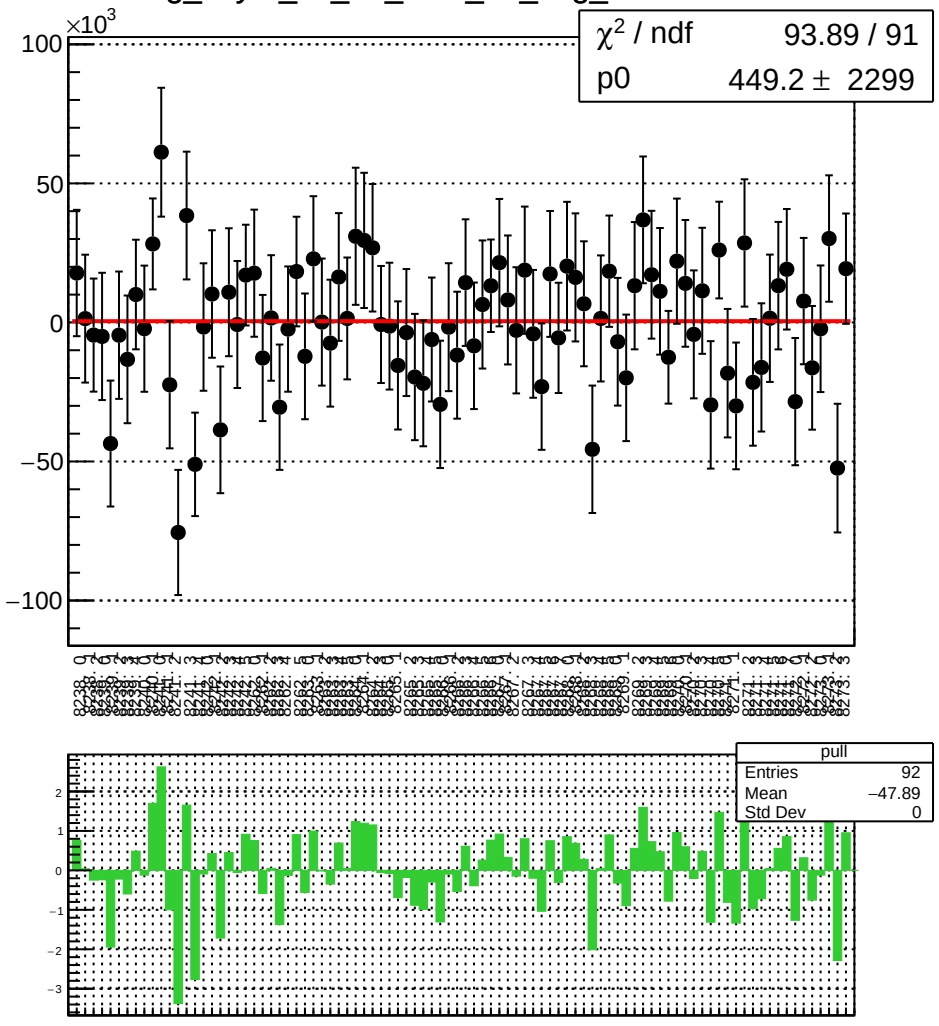

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.249e+04 / 91
p0 107.6 ± 0.08251
250
200
150
100
50

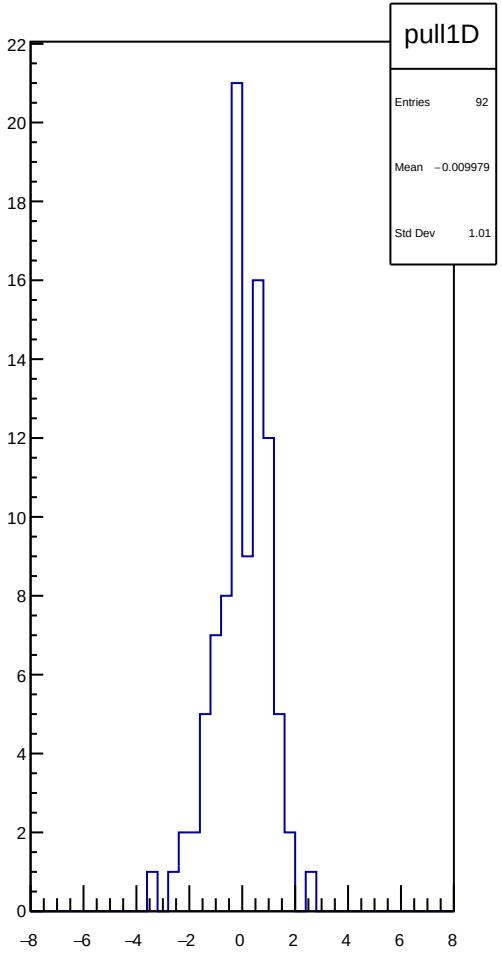

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.02 / 91
p0 −0.1069 ± 0.1167
pull
Entries 92
Mean 277.7
Std Dev 0
pull1D
Entries 92
Mean −0.009147
Std Dev 1.005

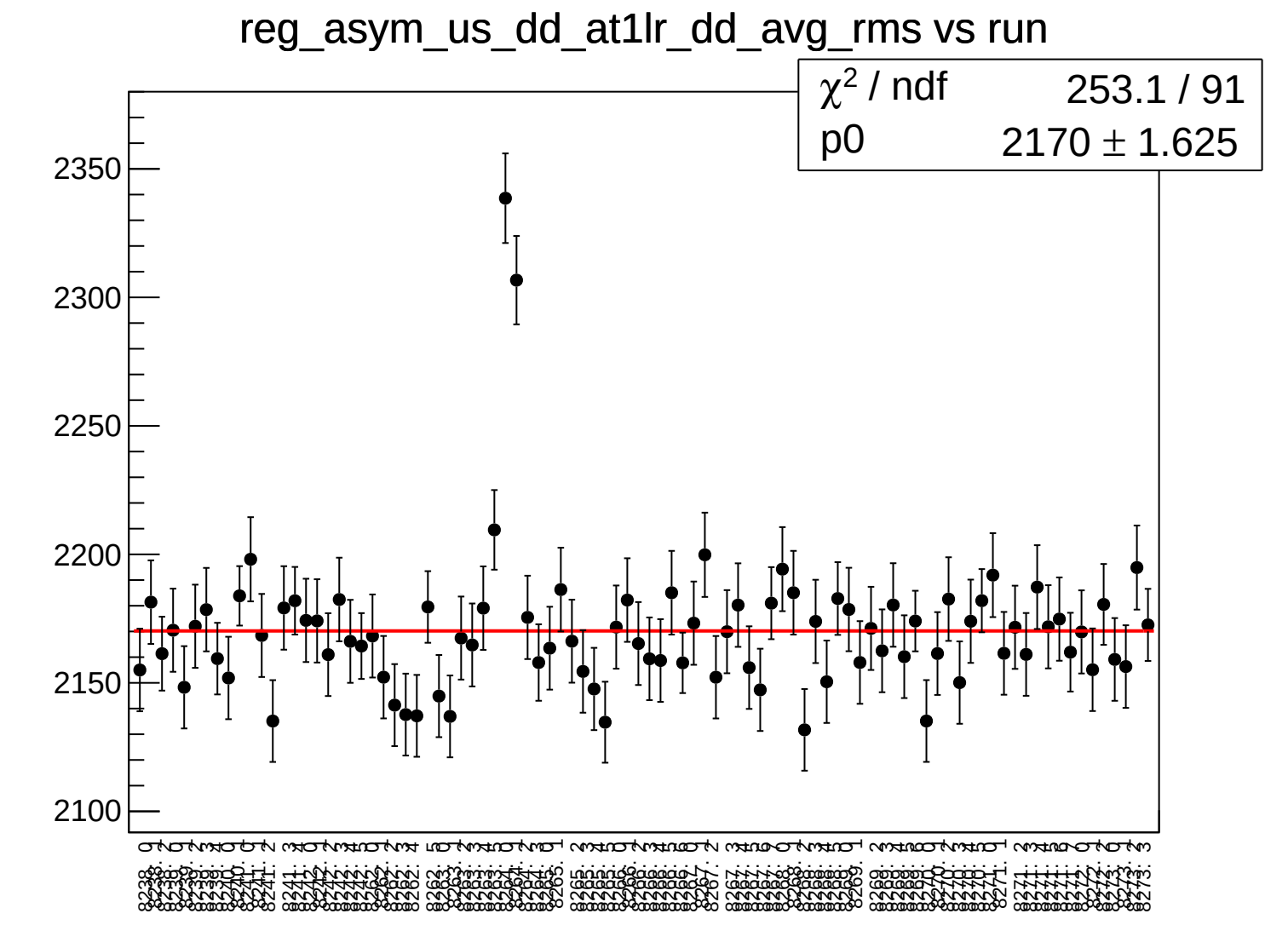

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.249e+04 / 91
p0 107.6 ± 0.08251
250
200
150
100
50

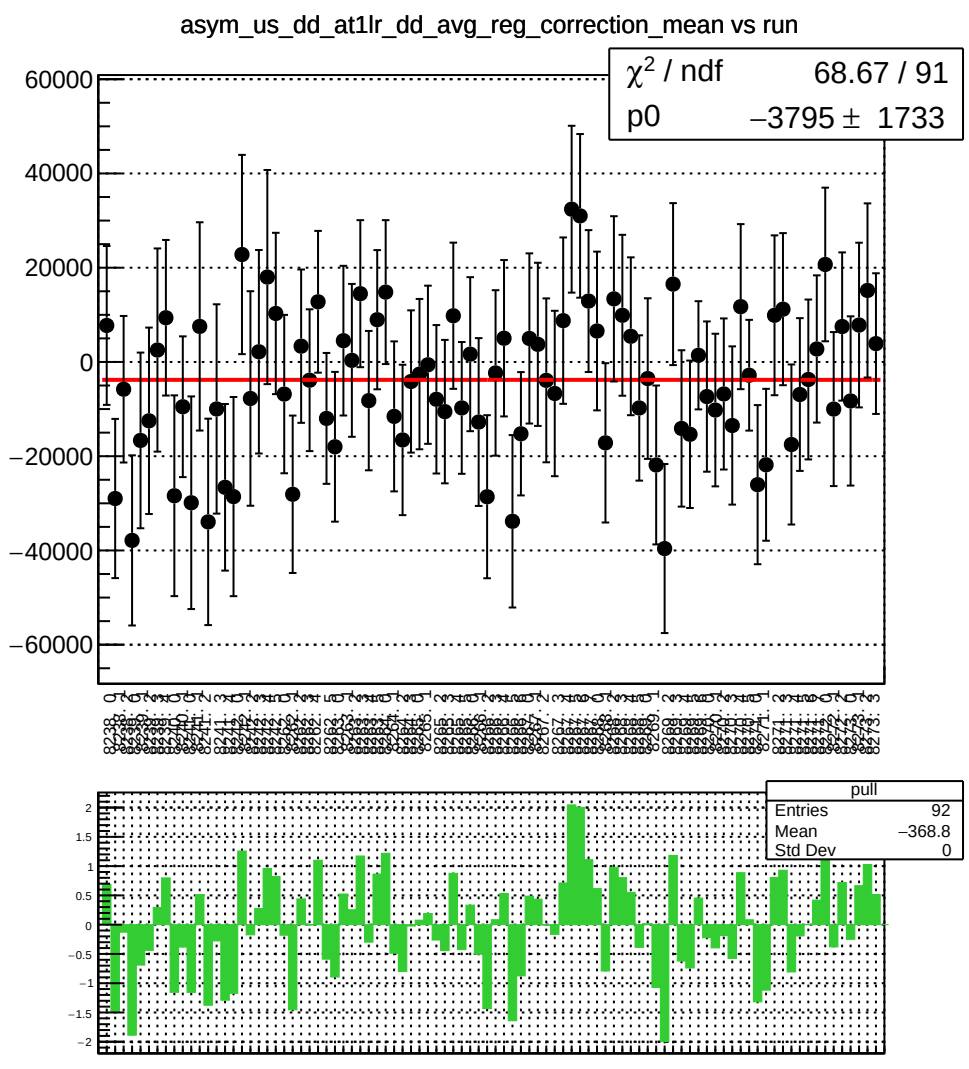

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.91 / 91
p0 1.131e−13 ± 2.869e−13
pull
Entries 92
Mean −167.2
Std Dev 0
pull1D
Entries 92
Mean 0.007311
Std Dev 1.005

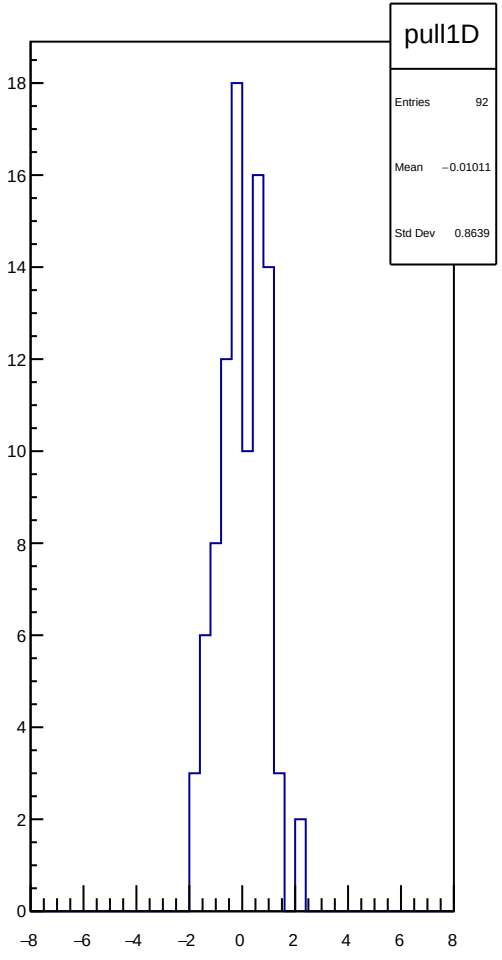

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 8.697e+05 / 91
p0 1.939e−10 ± 2.029e−13

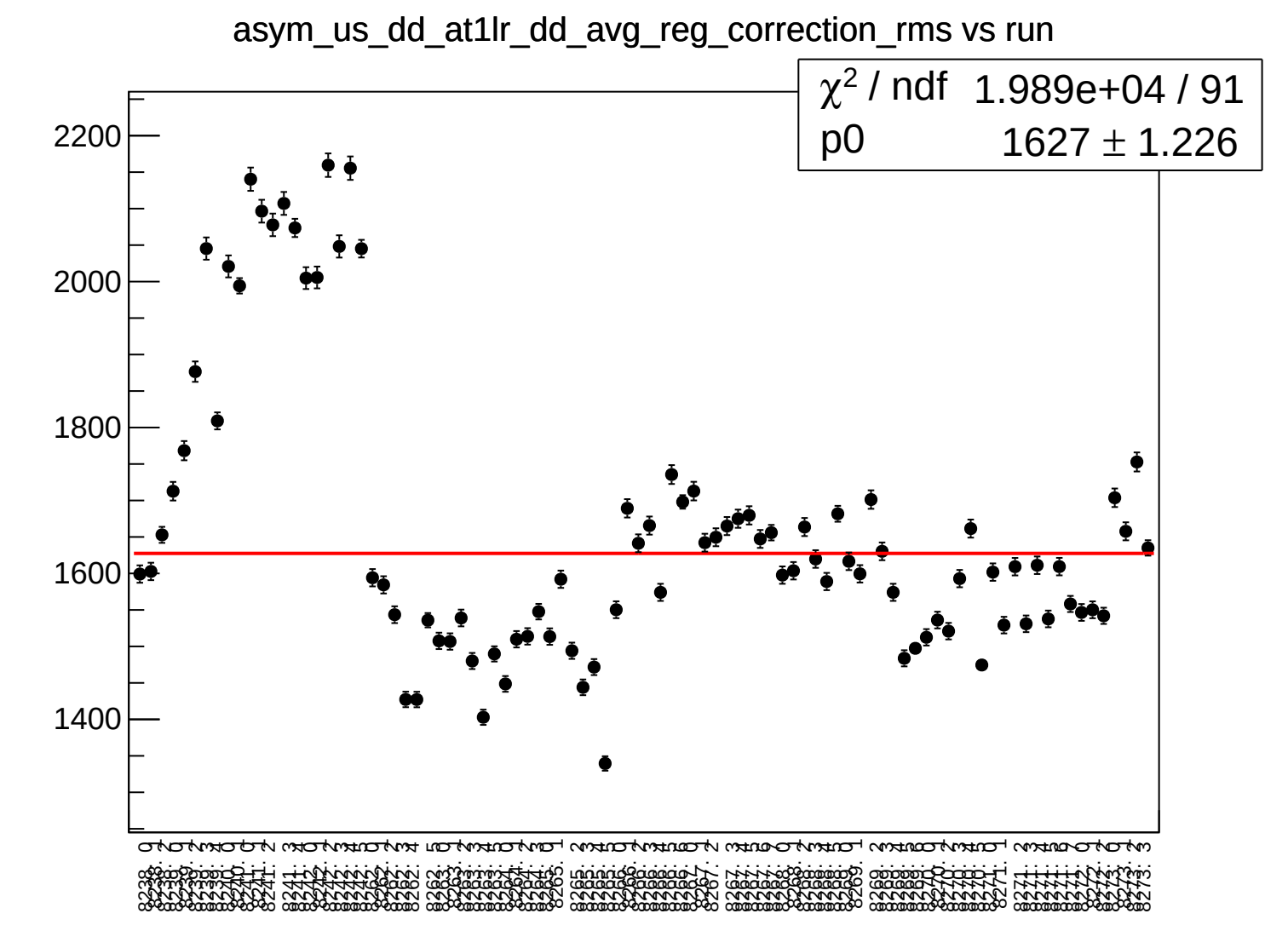

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 93.89 / 91
p0 449.2 ± 2299
pull
Entries 92
Mean −47.89
Std Dev 0

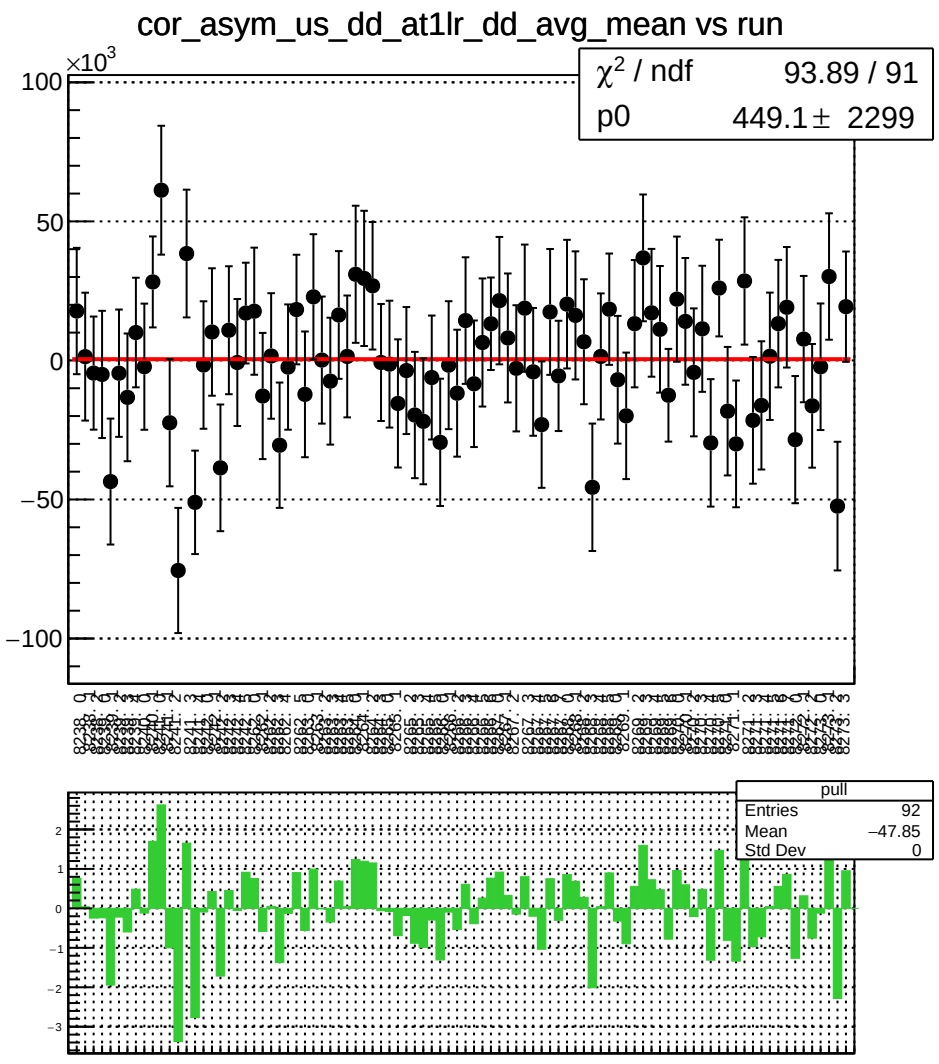

pull1D
Entries 92
Mean −0.009979
Std Dev 1.01

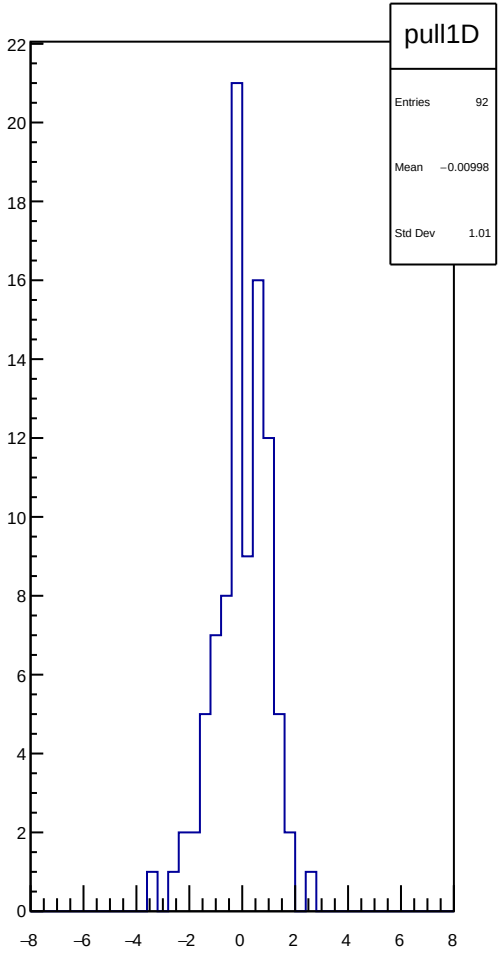

reg_asym_us_dd_at1lr_dd_avg_rms vs run
$\chi^2$ / ndf 253.1 / 91
p0 2170 ± 1.625
2350
2300
2250
2200
2150
2100

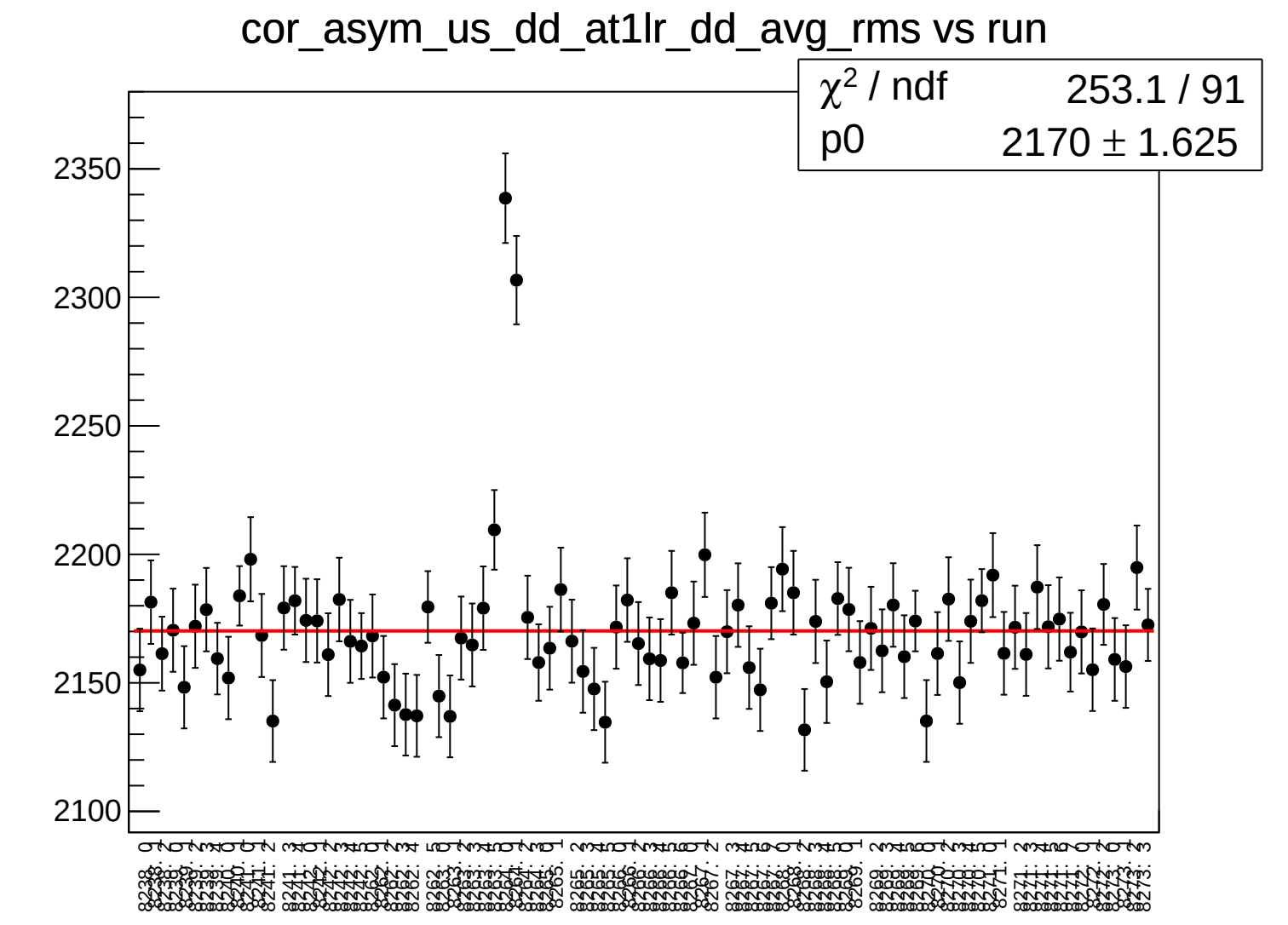

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 68.67 / 91
p0 −3795 ± 1733
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −368.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

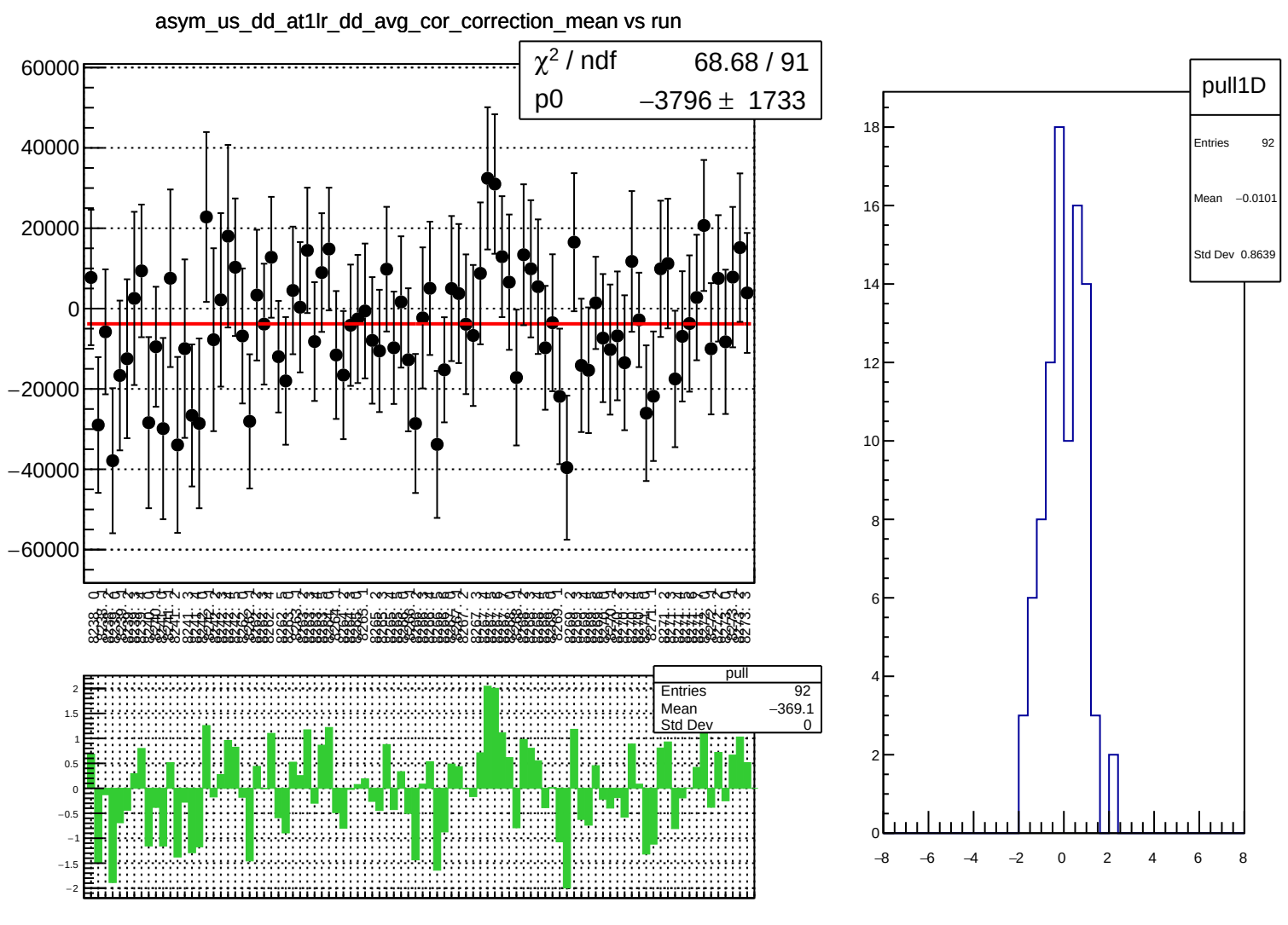

pull1D
Entries 92
Mean −0.01011
Std Dev 0.8639
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

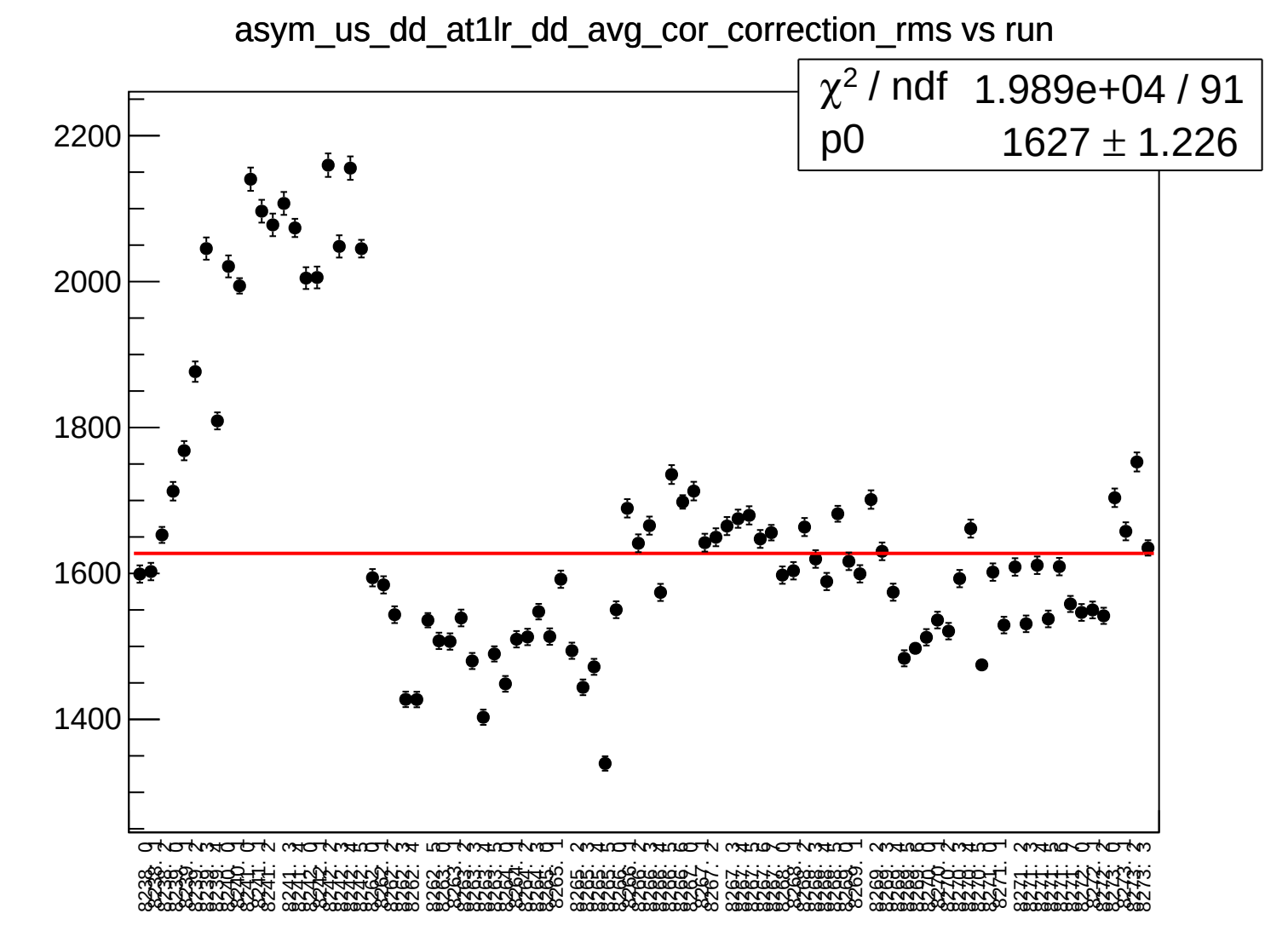

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.989e+04 / 91
p0 1627 ± 1.226
2200
2000
1800
1600
1400

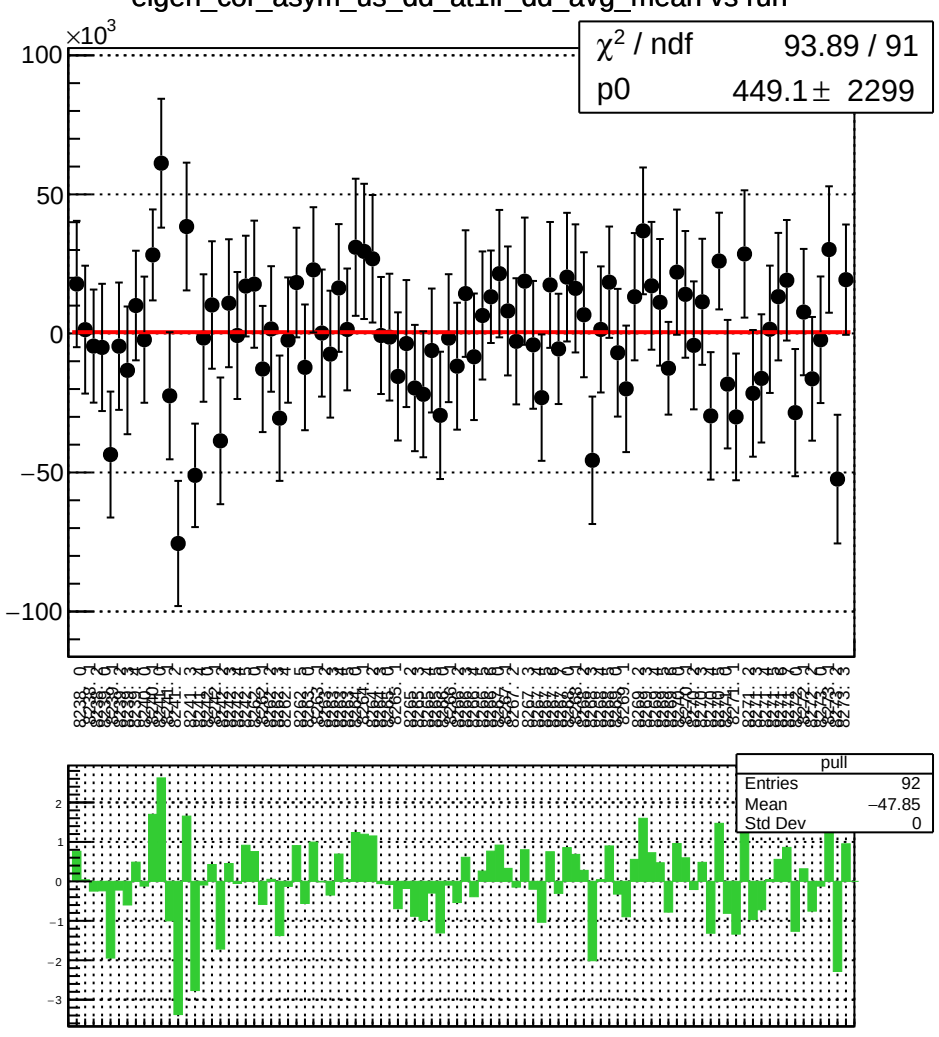

cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 93.89 / 91
p0 449.1 ± 2299
pull
Entries 92
Mean −47.85
Std Dev 0

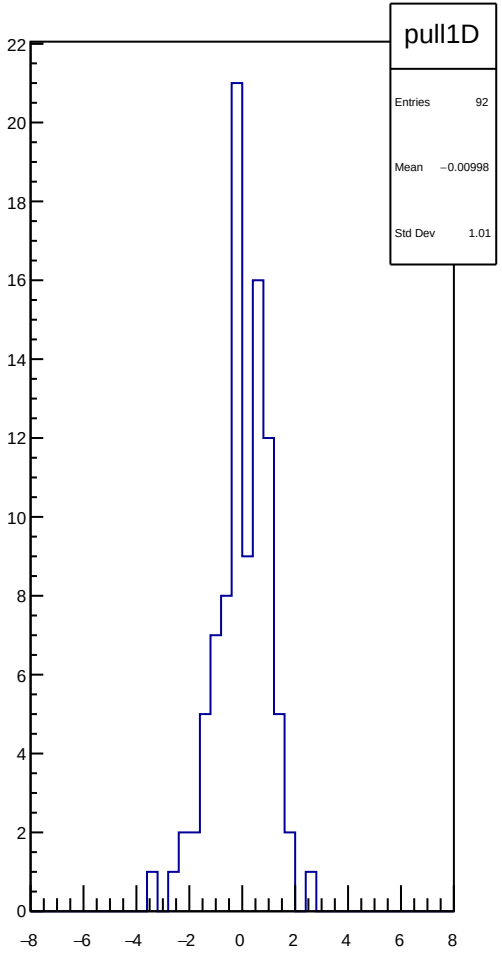

pull1D
Entries 92
Mean −0.00998
Std Dev 1.01

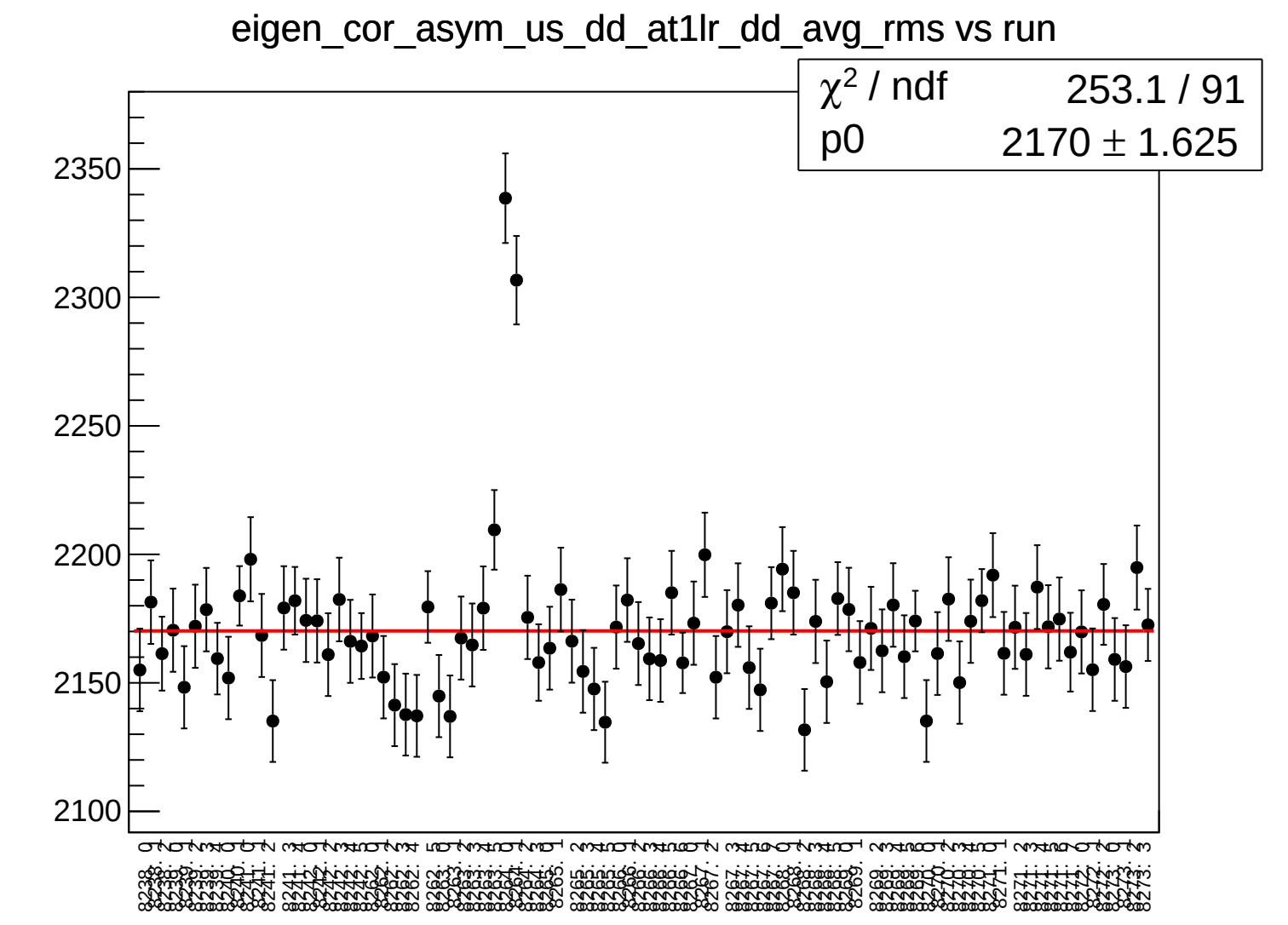

cor_asym_us_dd_at1lr_dd_avg_rms vs run
$\chi^2$ / ndf 253.1 / 91
p0 2170 ± 1.625
2350
2300
2250
2200
2150
2100

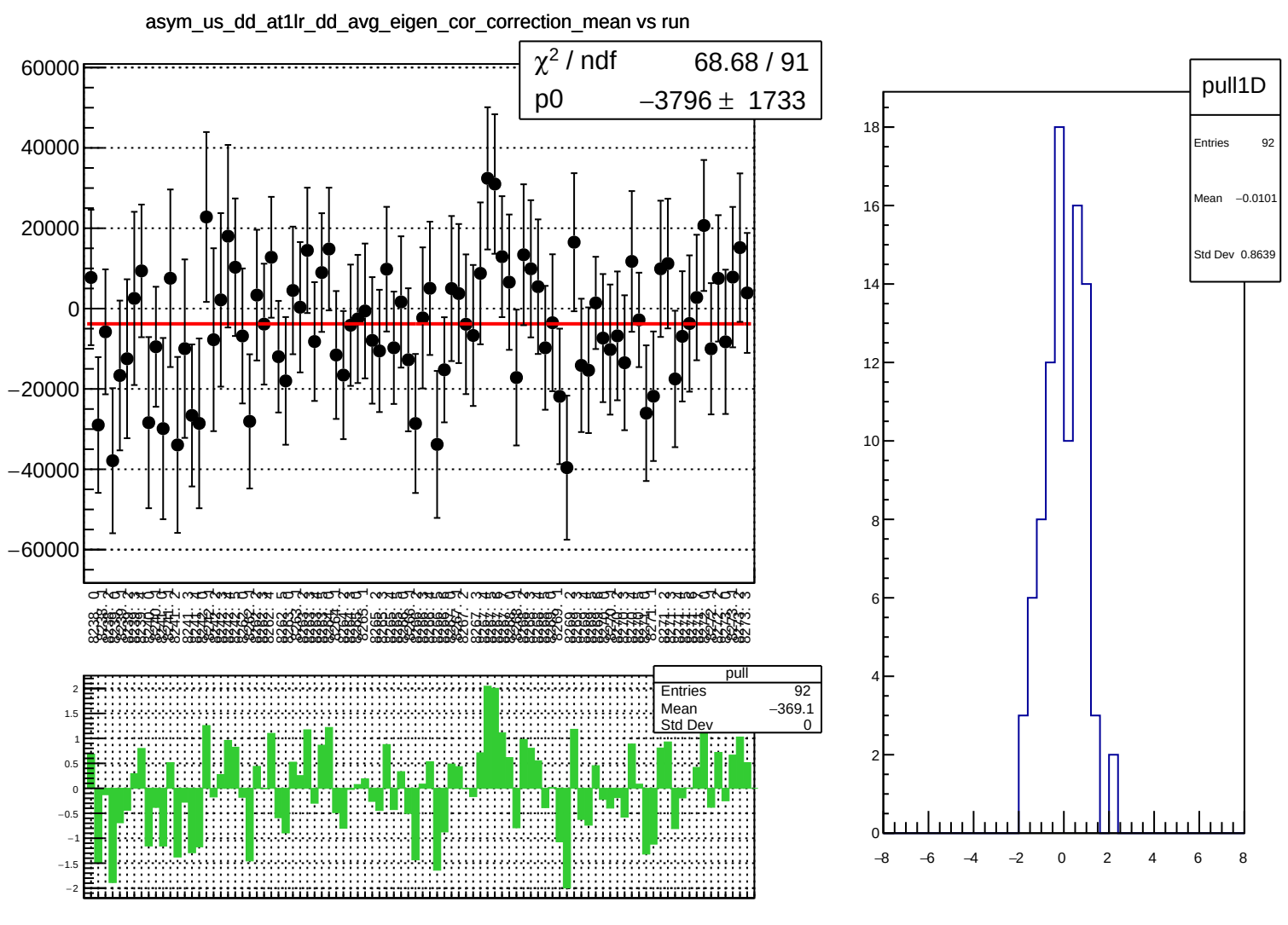

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 68.68 / 91
p0 −3796 ± 1733
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −369.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.0101
Std Dev 0.8639
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

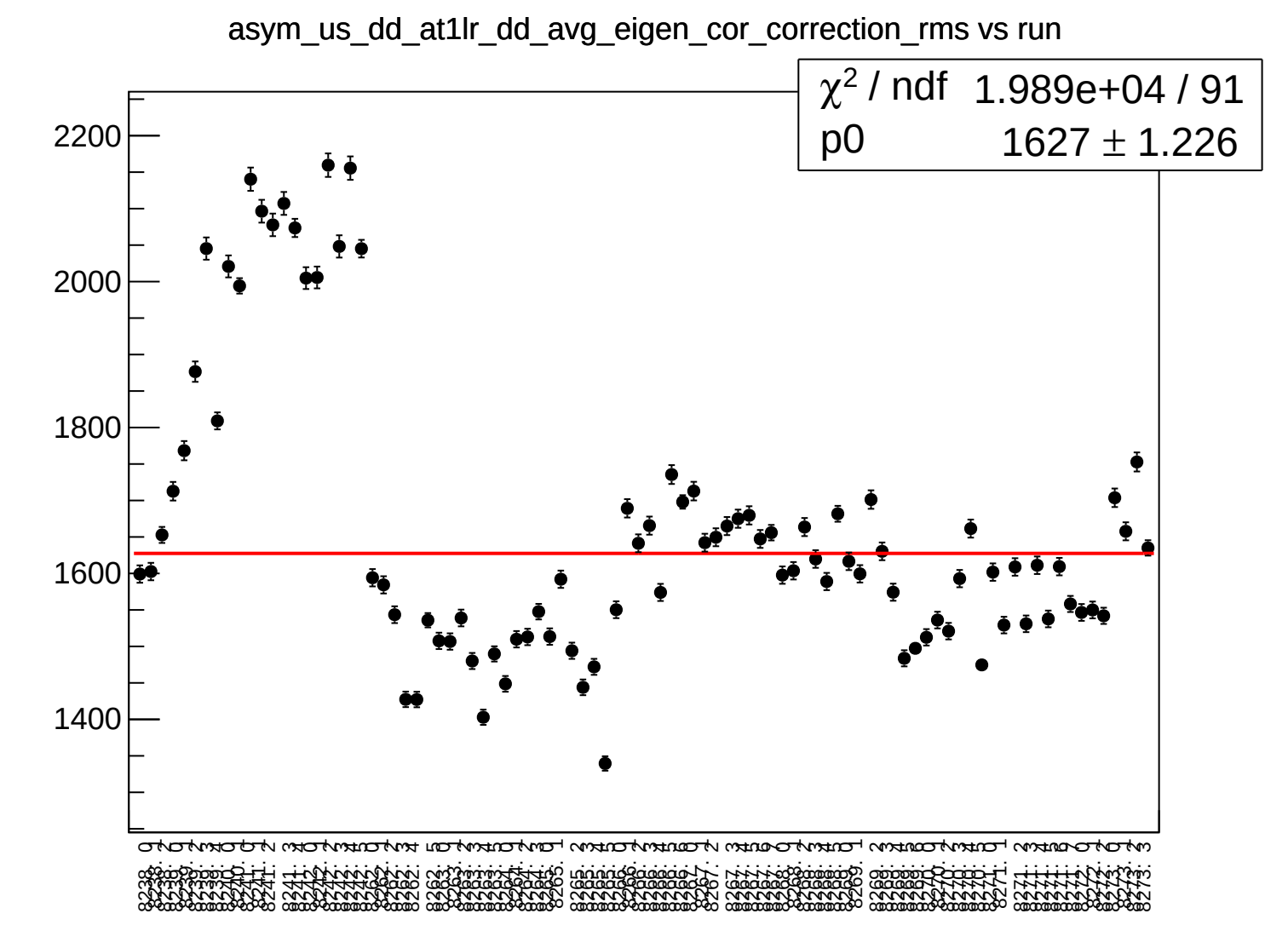

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.989e+04 / 91
p0 1627 ± 1.226
2200
2000
1800
1600
1400

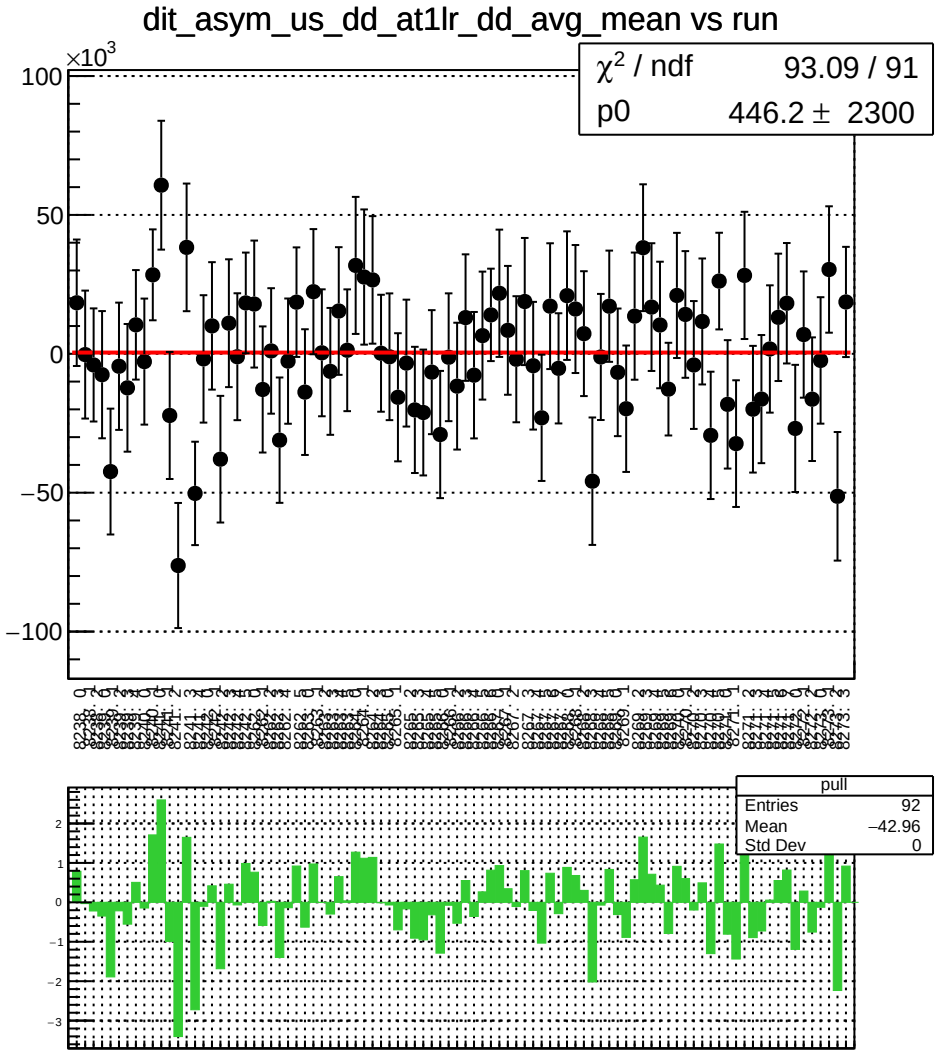

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 93.89 / 91
p0 449.1 ± 2299
pull
Entries 92
Mean −47.85
Std Dev 0

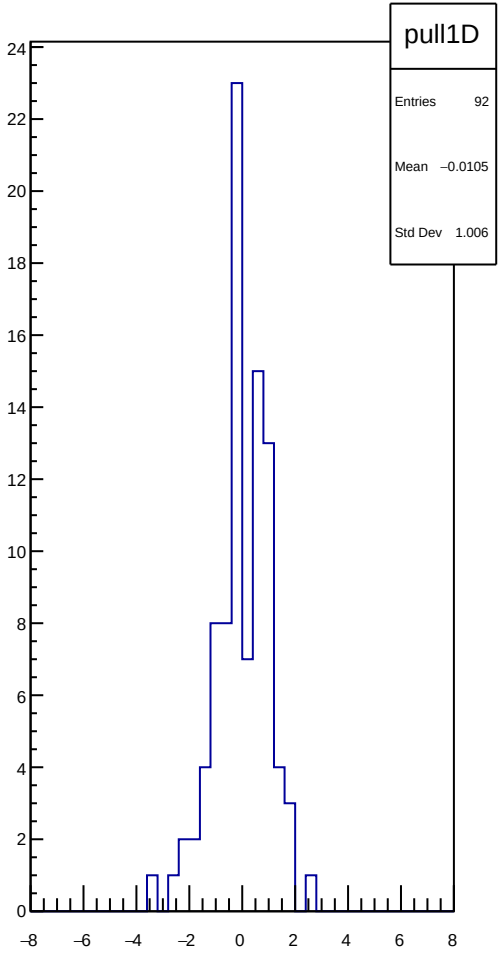

pull1D
Entries 92
Mean −0.00998
Std Dev 1.01

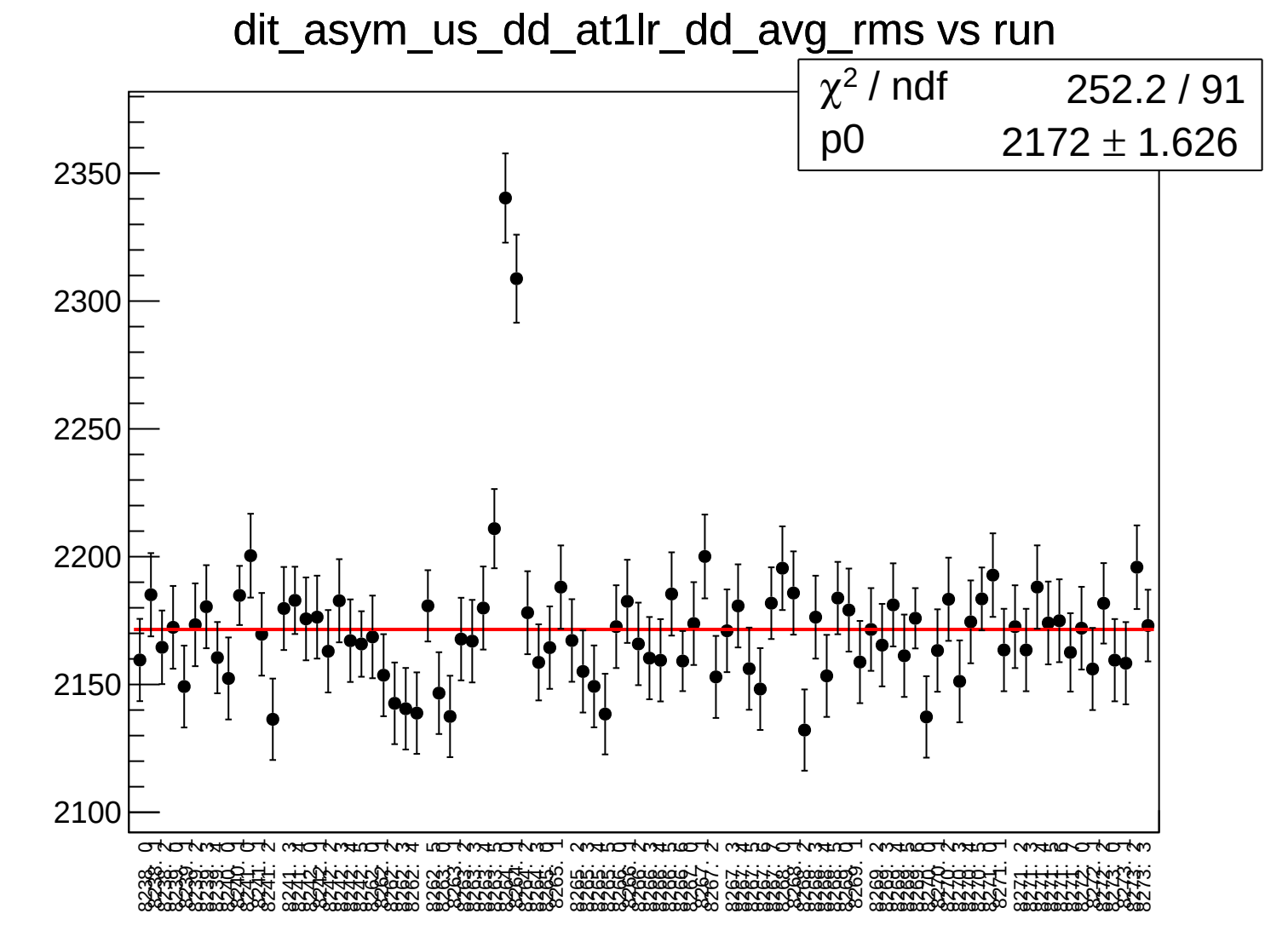

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 253.1 / 91
p0 2170 ± 1.625
2350
2300
2250
2200
2150
2100

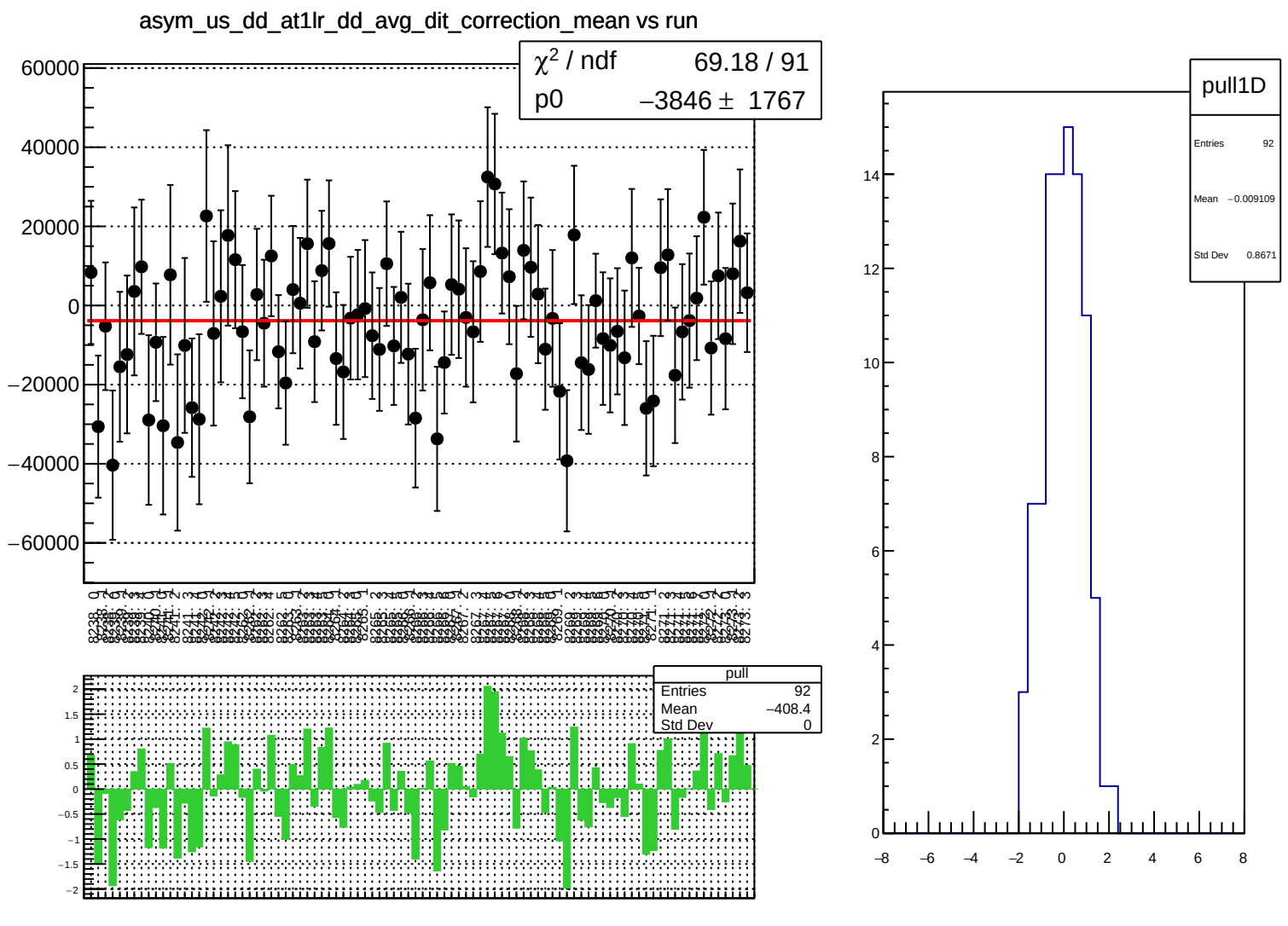

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 68.68 / 91
p0 −3796 ± 1733
pull
Entries 92
Mean −369.1
Std Dev 0
pull1D
Entries 92
Mean −0.0101
Std Dev 0.8639

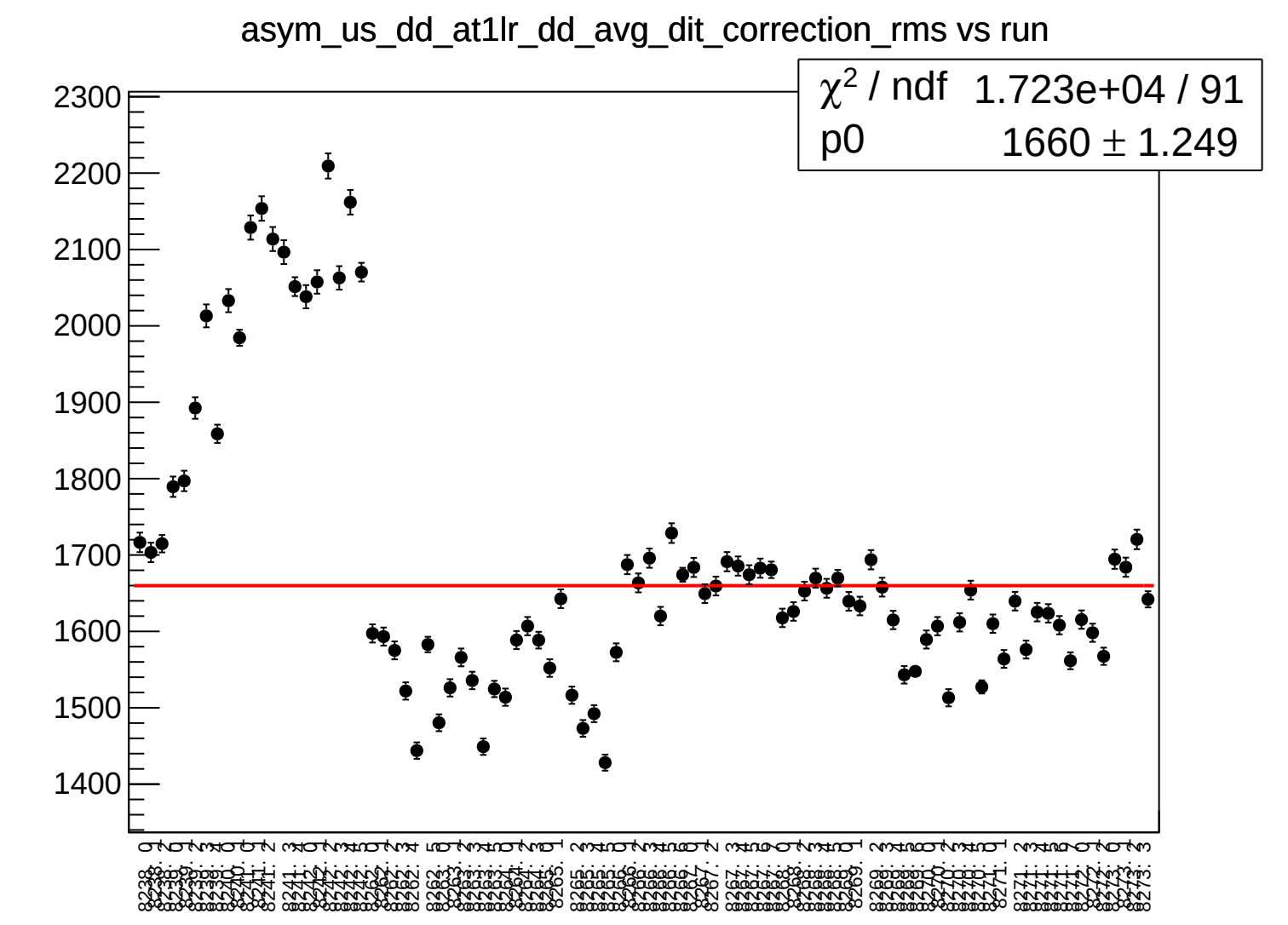

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.989e+04 / 91
p0 1627 ± 1.226
2200
2000
1800
1600
1400

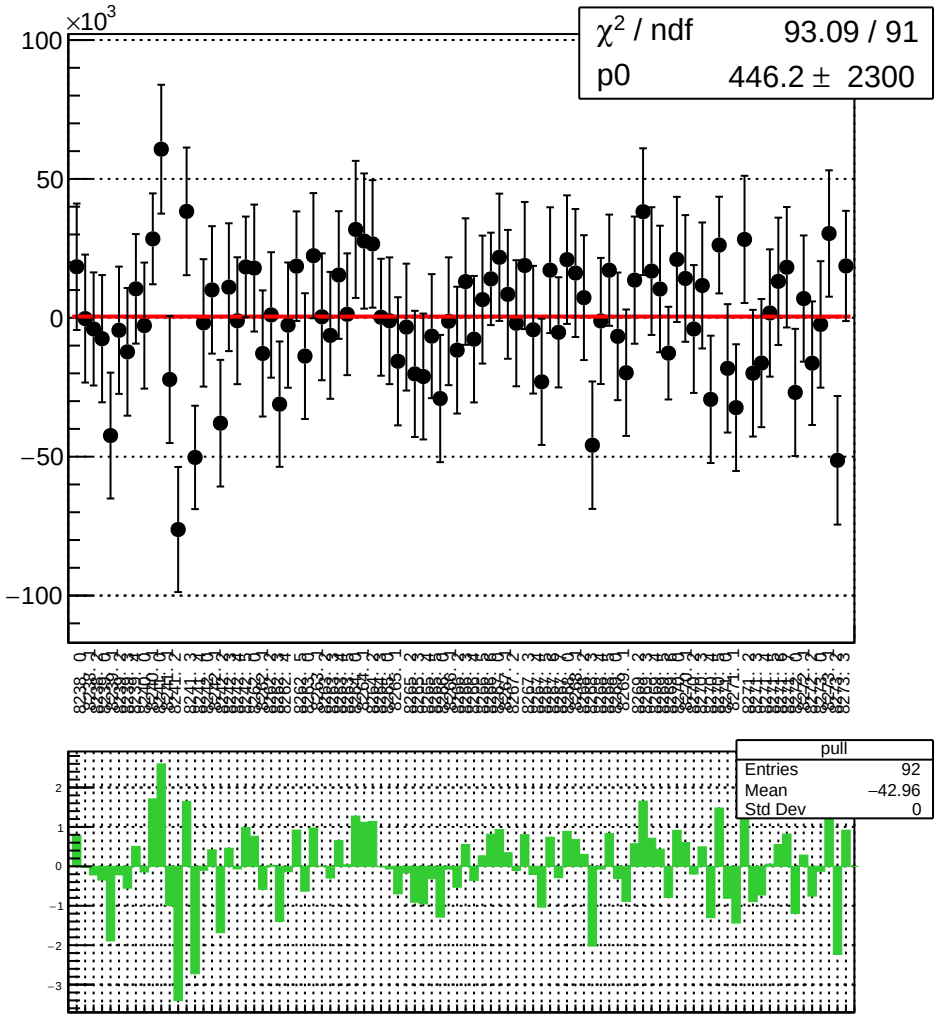

dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 93.09 / 91
p0 446.2 ± 2300
pull
Entries 92
Mean −42.96
Std Dev 0

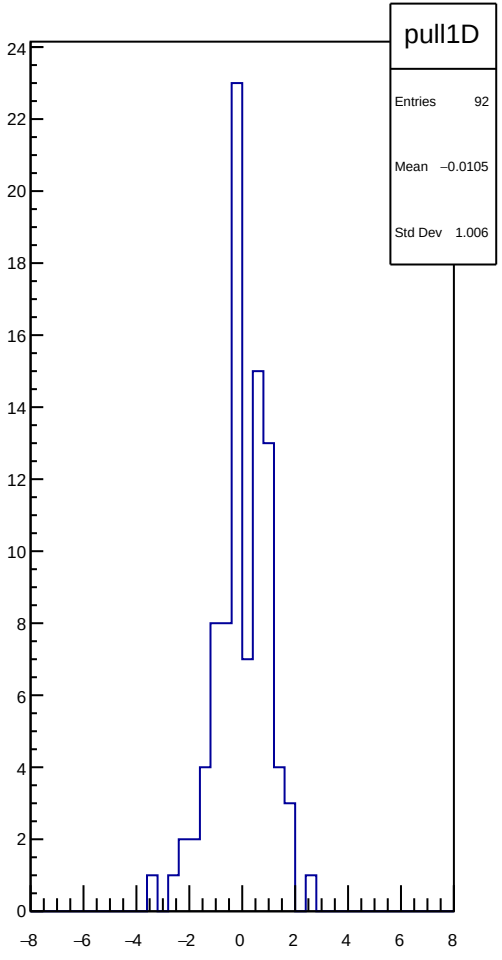

pull1D
Entries 92
Mean −0.0105
Std Dev 1.006

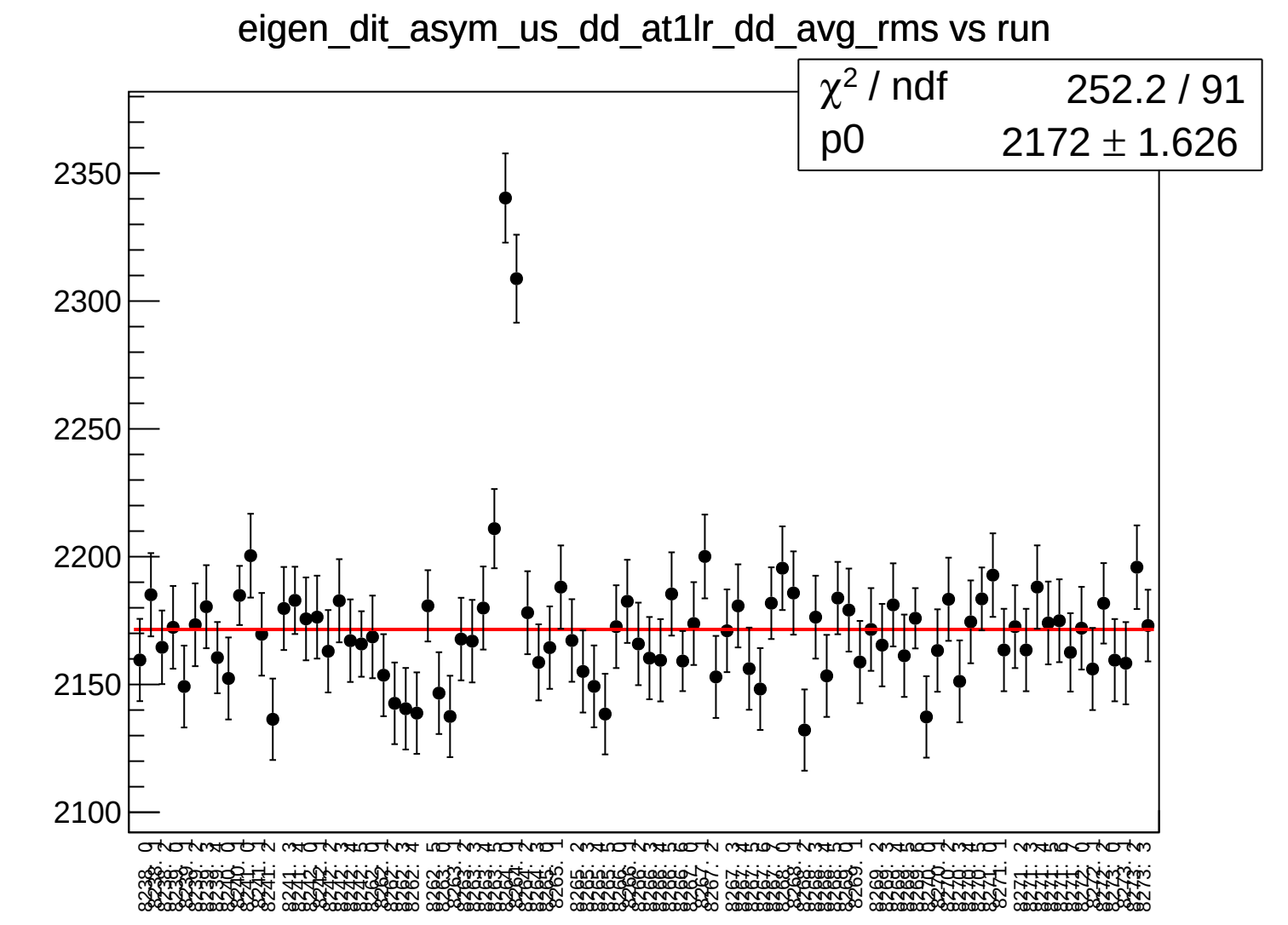

dit_asym_us_dd_at1lr_dd_avg_rms vs run
$\chi^2$ / ndf 252.2 / 91
p0 2172 ± 1.626
2350
2300
2250
2200
2150
2100

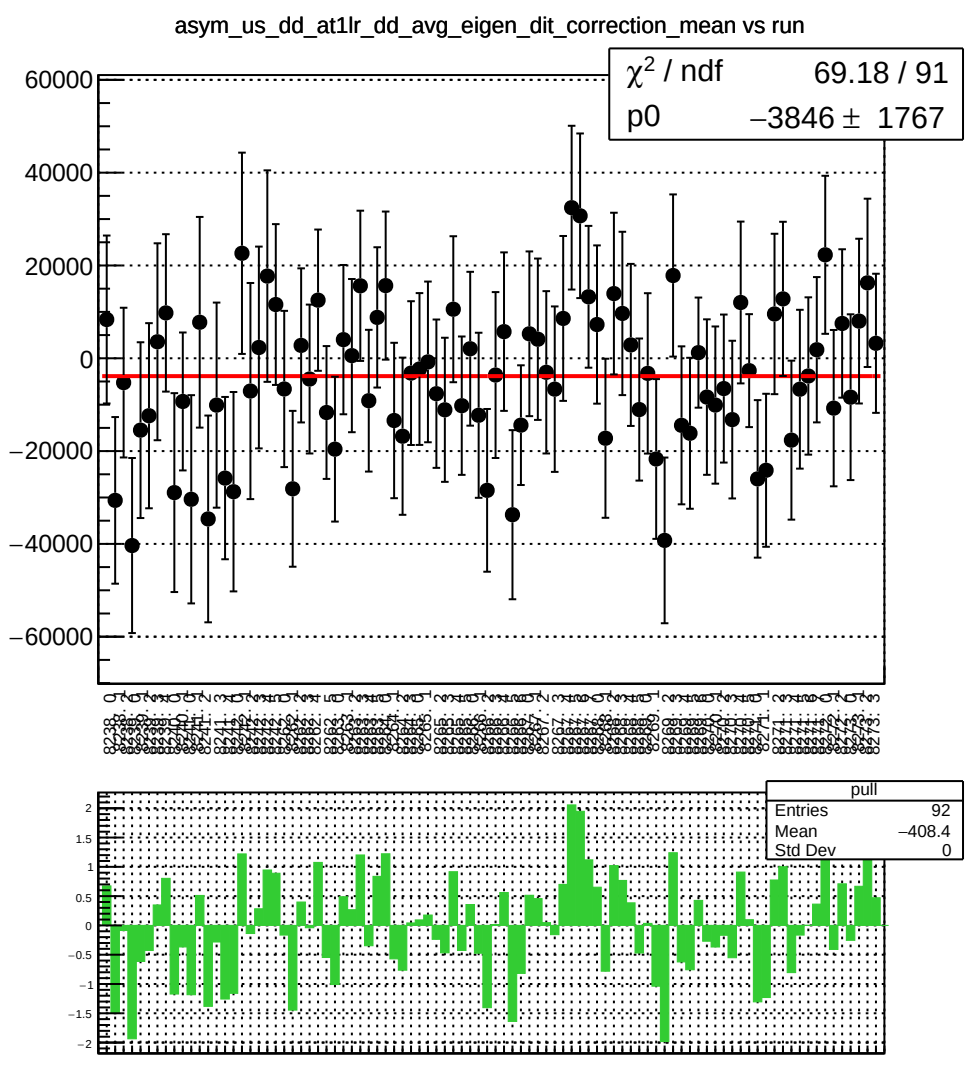

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 69.18 / 91
p0 −3846 ± 1767
pull
Entries 92
Mean −408.4
Std Dev 0
pull1D
Entries 92
Mean −0.009109
Std Dev 0.8671

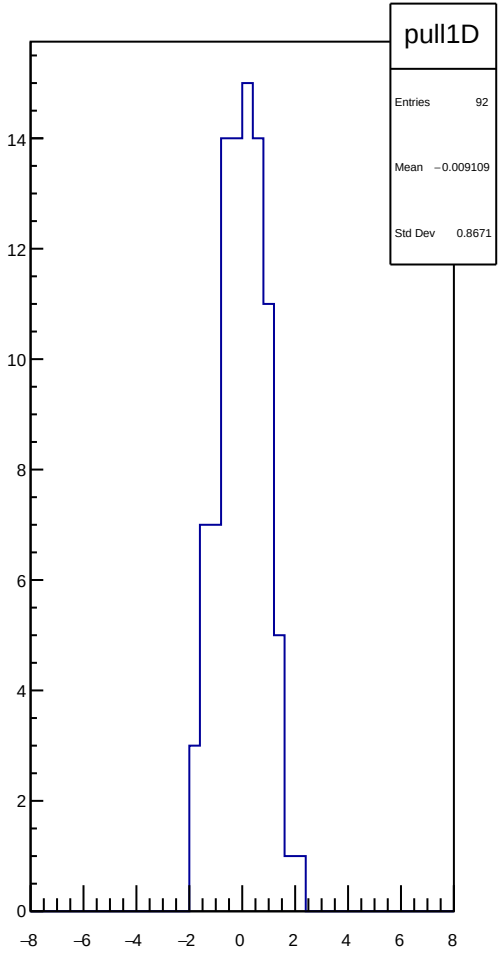

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.723e+04 / 91
p0 1660 ± 1.249
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

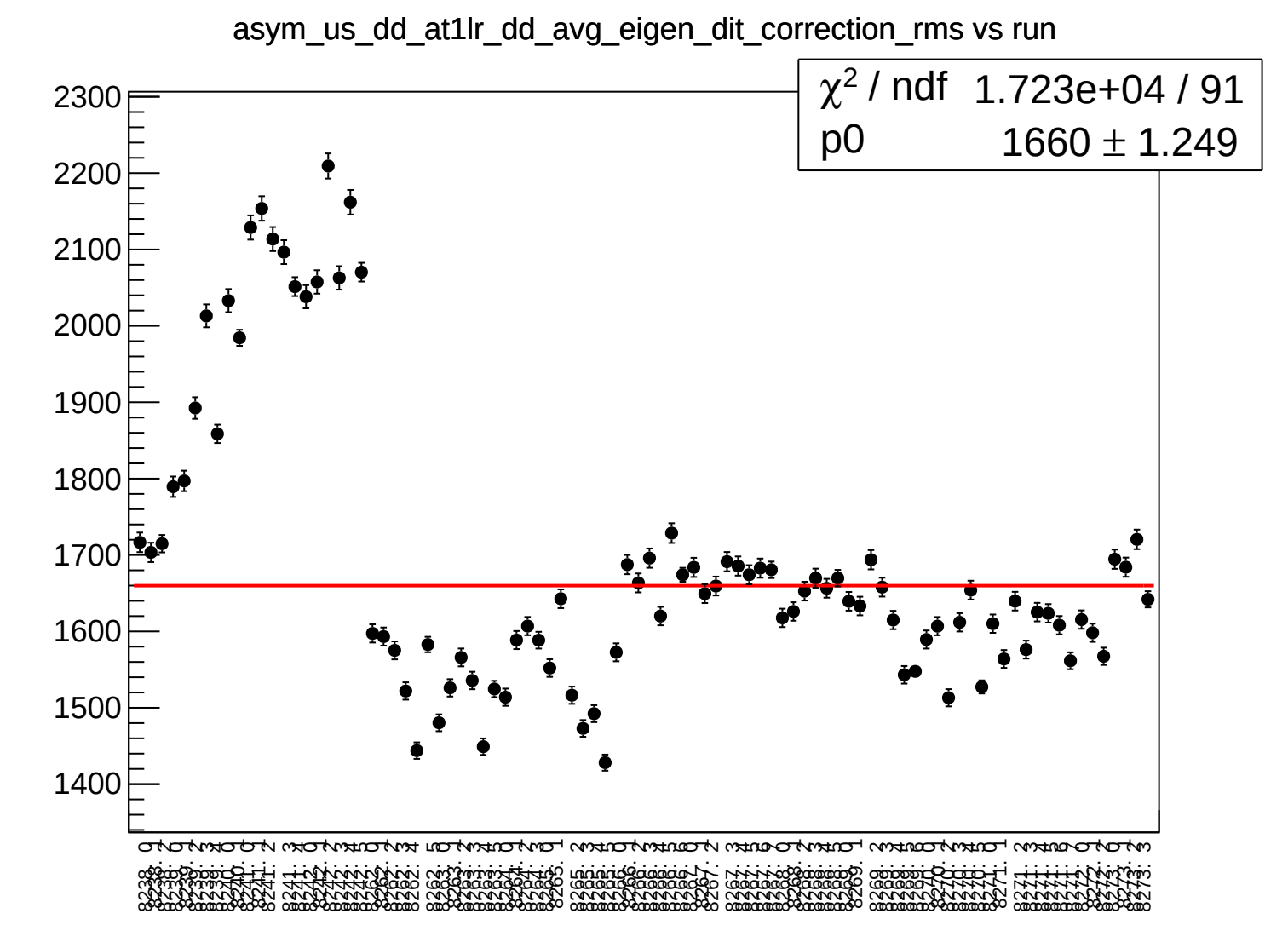

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 93.09 / 91
p0 446.2 ± 2300
pull
Entries 92
Mean −42.96
Std Dev 0

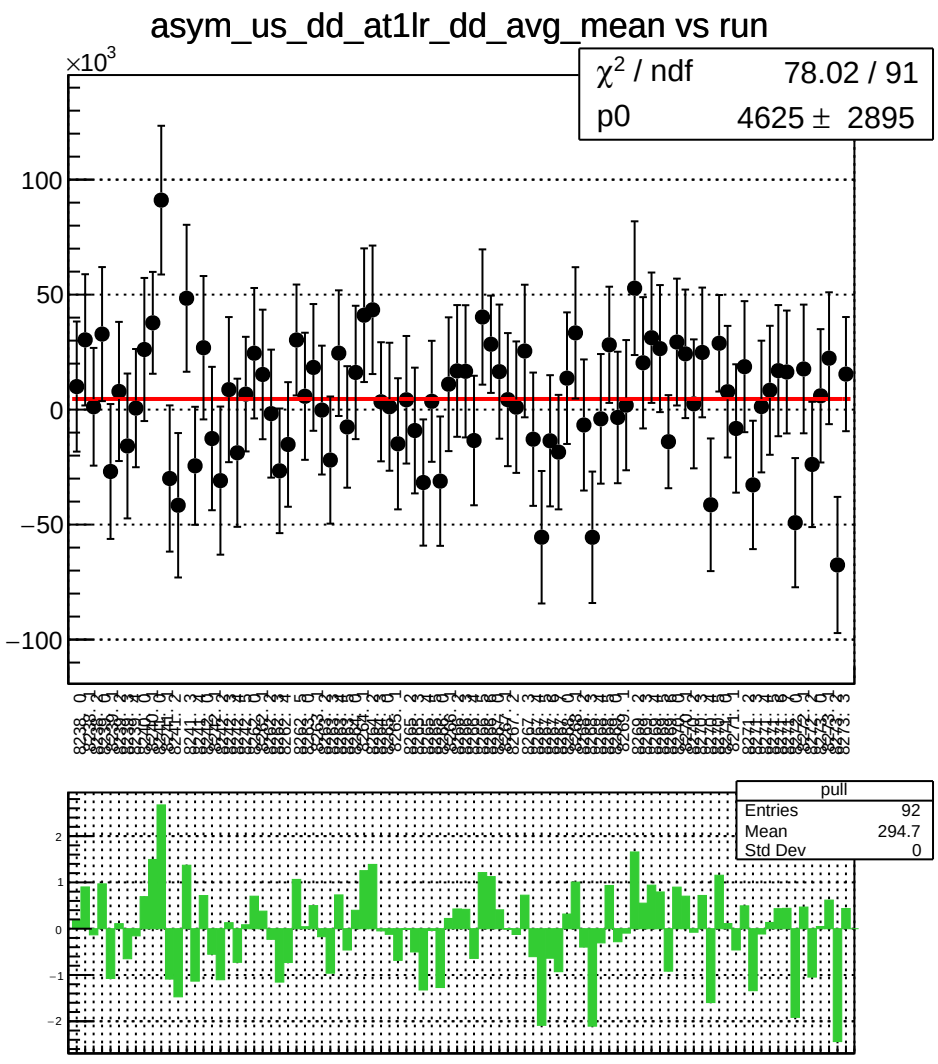

pull1D
Entries 92
Mean −0.0105
Std Dev 1.006

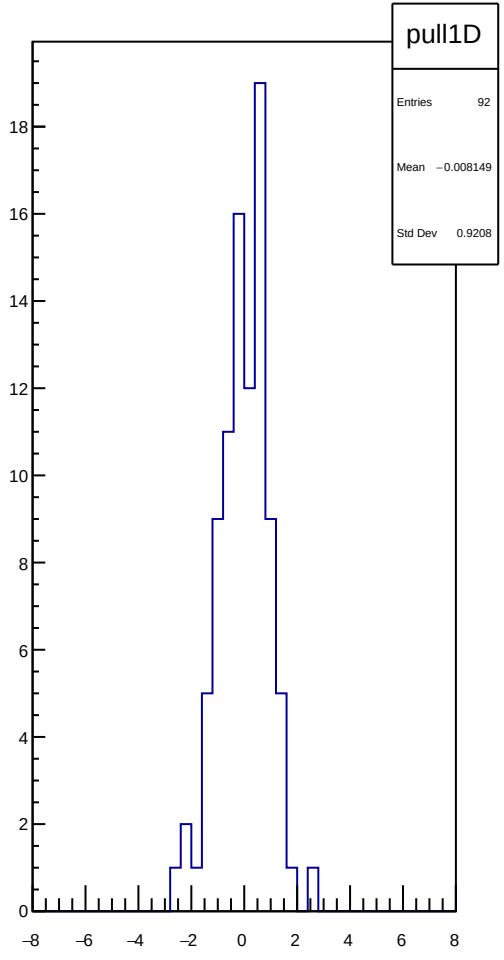

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 252.2 / 91
p0 2172 ± 1.626
2350
2300
2250
2200
2150
2100

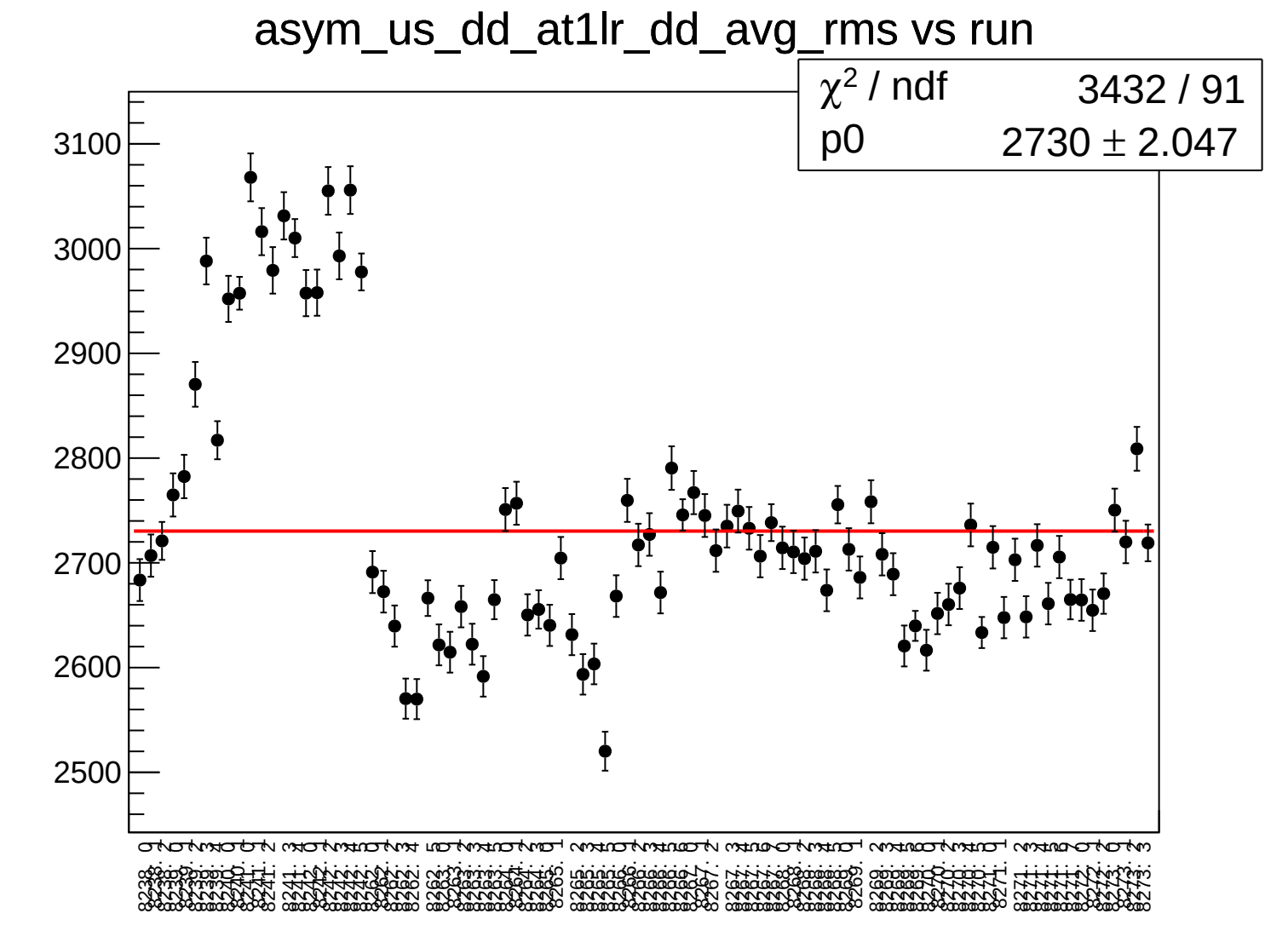

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.18 / 91
p0 −3846 ± 1767
pull
Entries 92
Mean −408.4
Std Dev 0

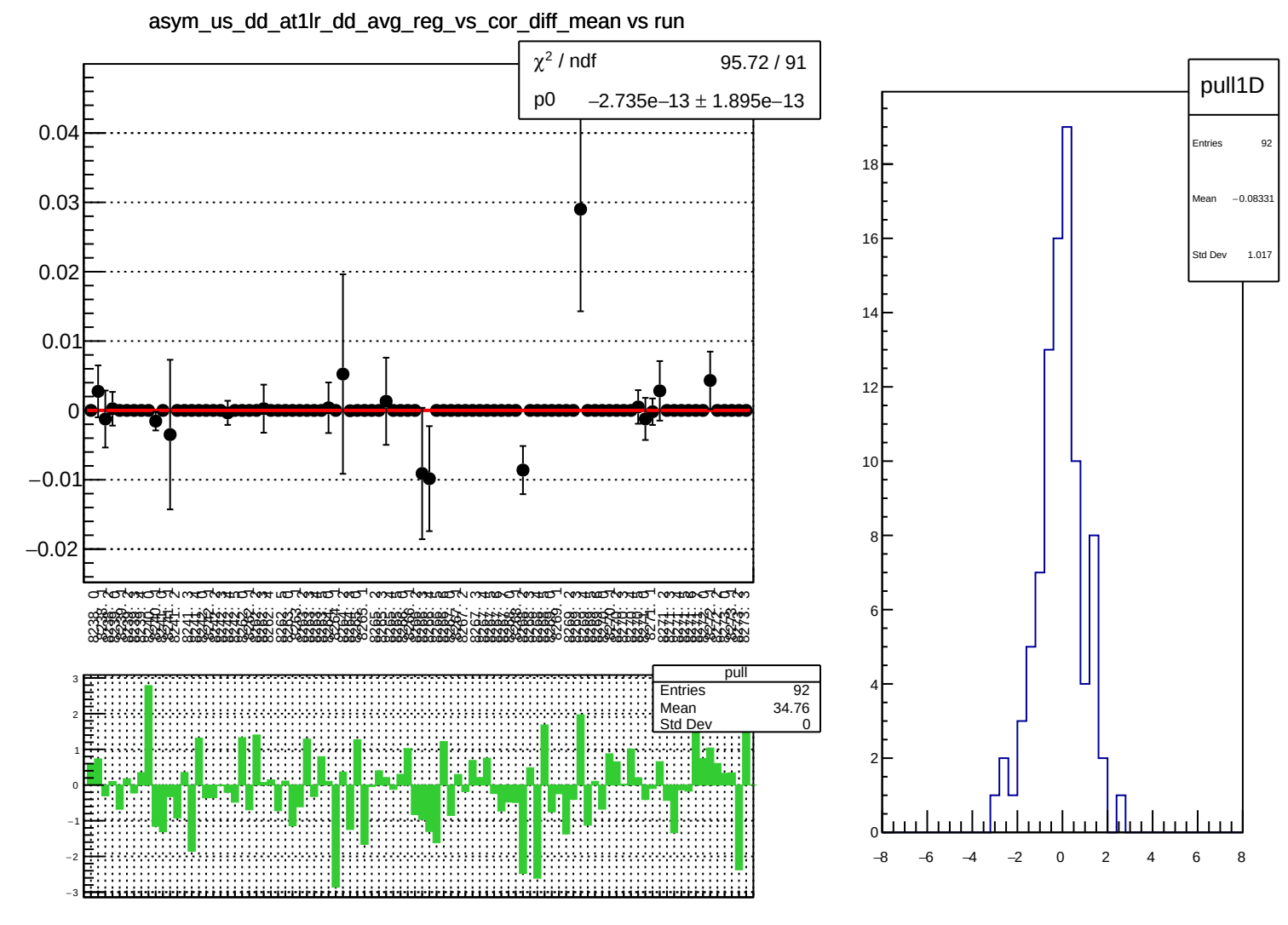

pull1D
Entries 92
Mean −0.009109
Std Dev 0.8671

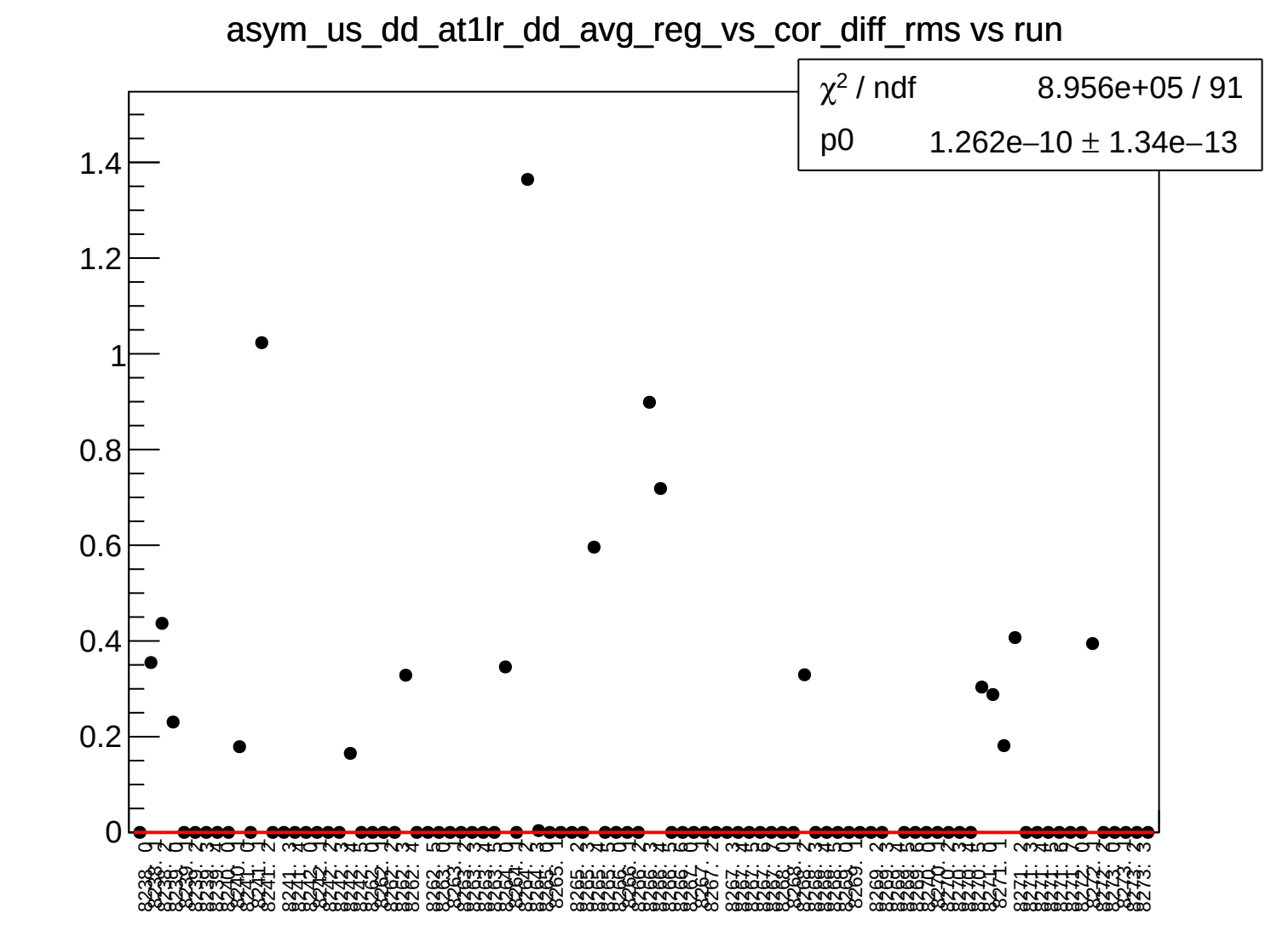

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.723e+04 / 91
p0 1660 ± 1.249
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

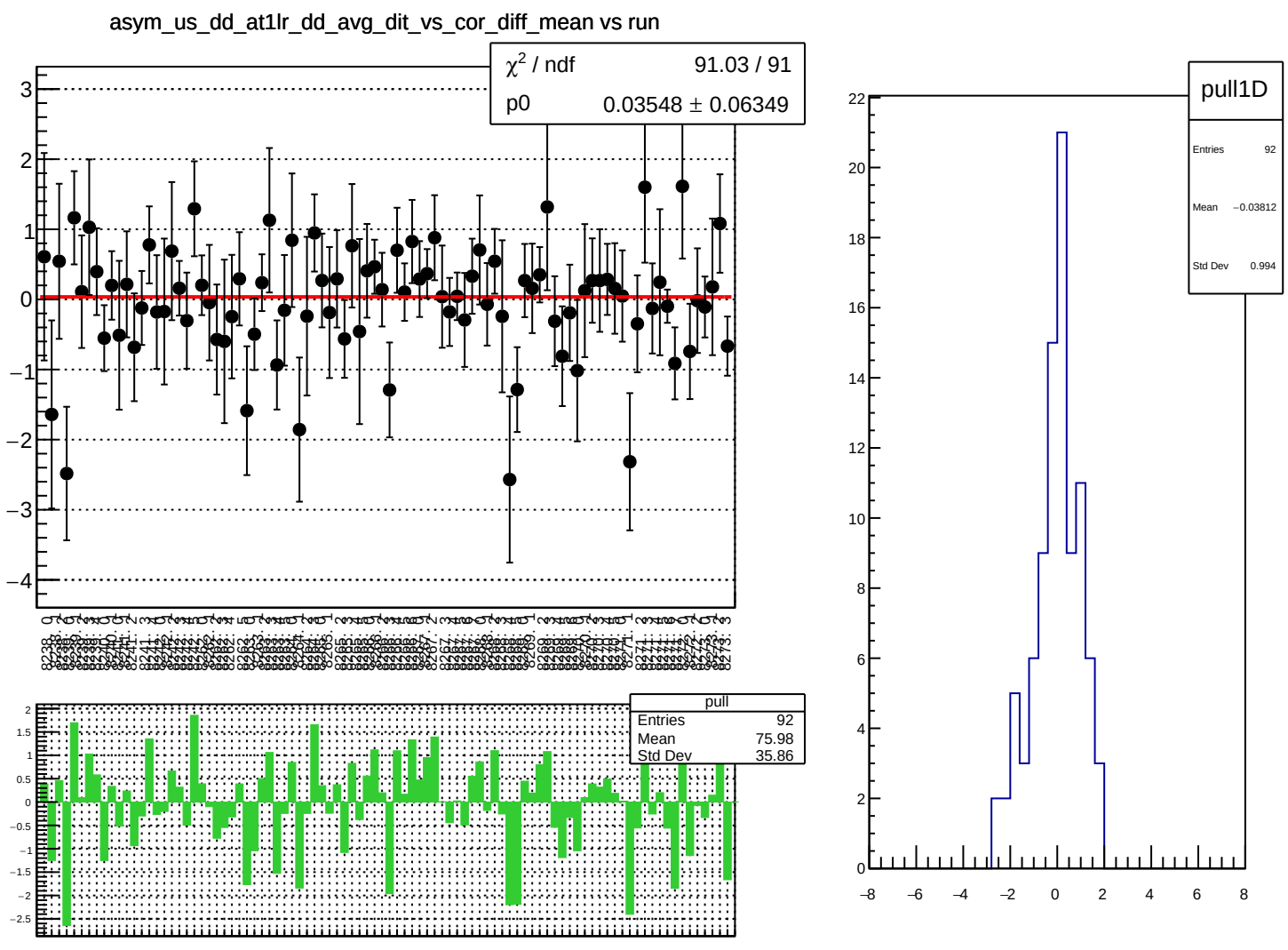

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 78.02 / 91
p0 4625 ± 2895
100
50
0
−50
−100
pull
Entries 92
Mean 294.7
Std Dev 0
2
1
0
−1
−2

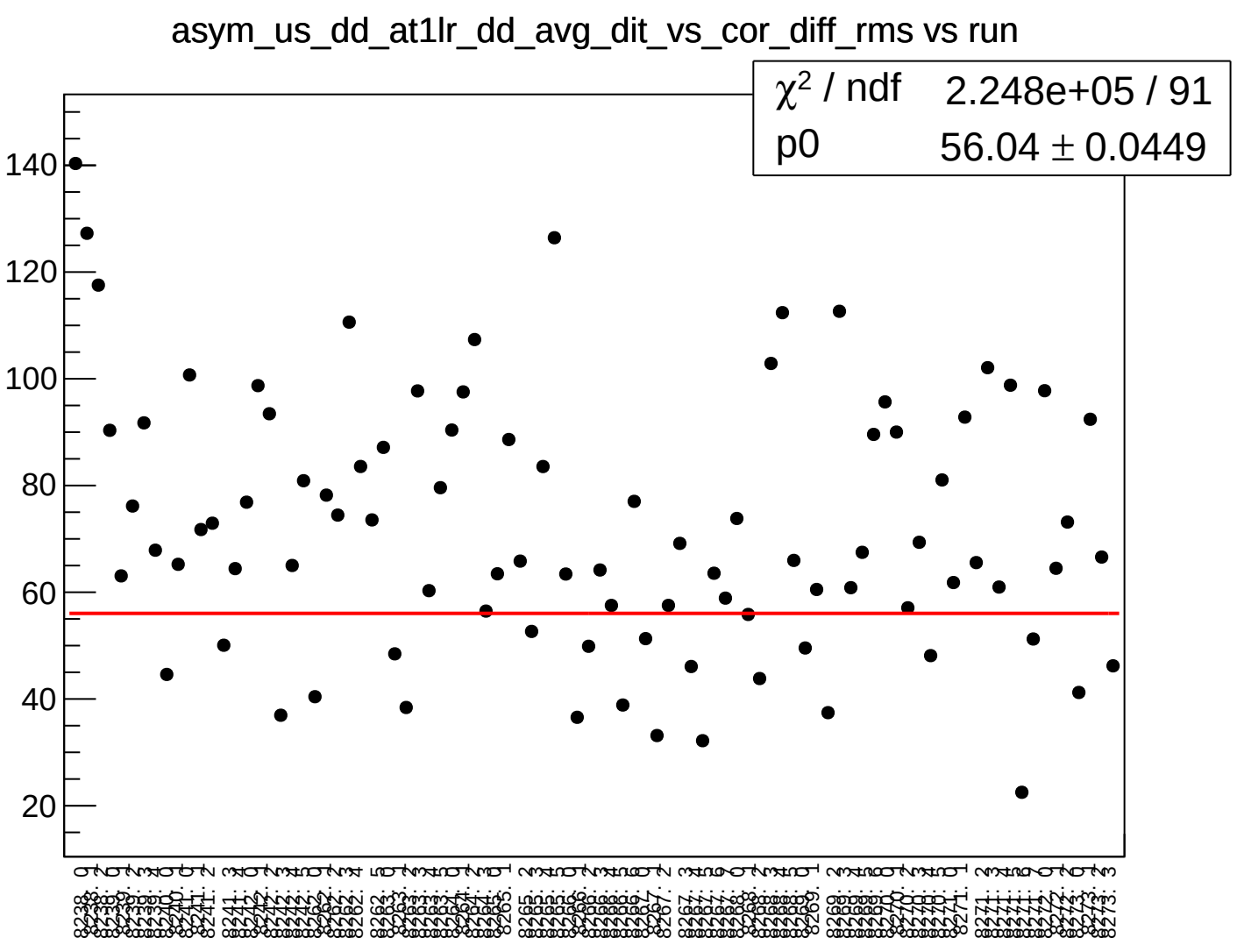

pull1D
Entries 92
Mean −0.008149
Std Dev 0.9208
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

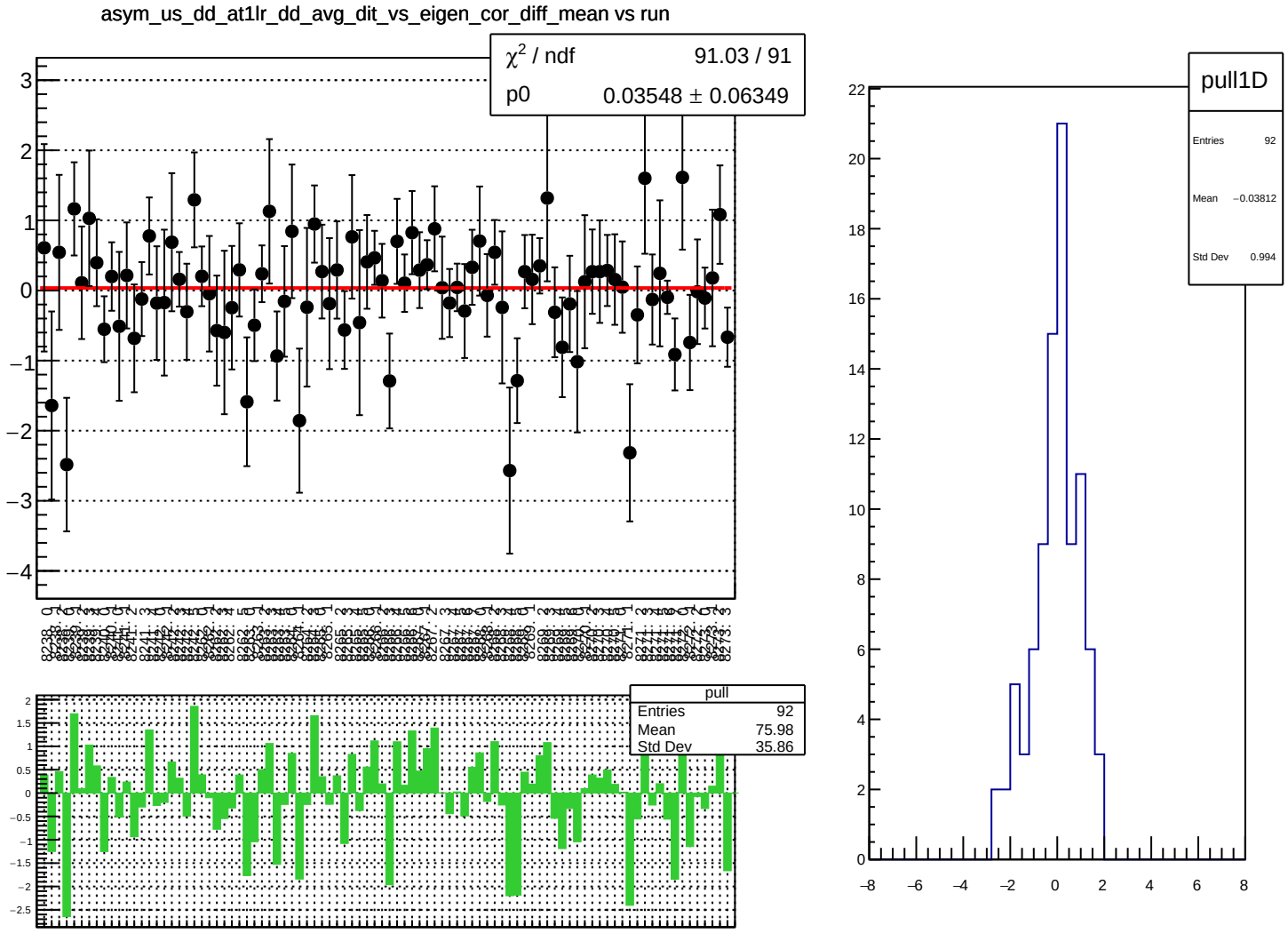

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 3432 / 91
p0 2730 ± 2.047
3100
3000
2900
2800
2700
2600
2500

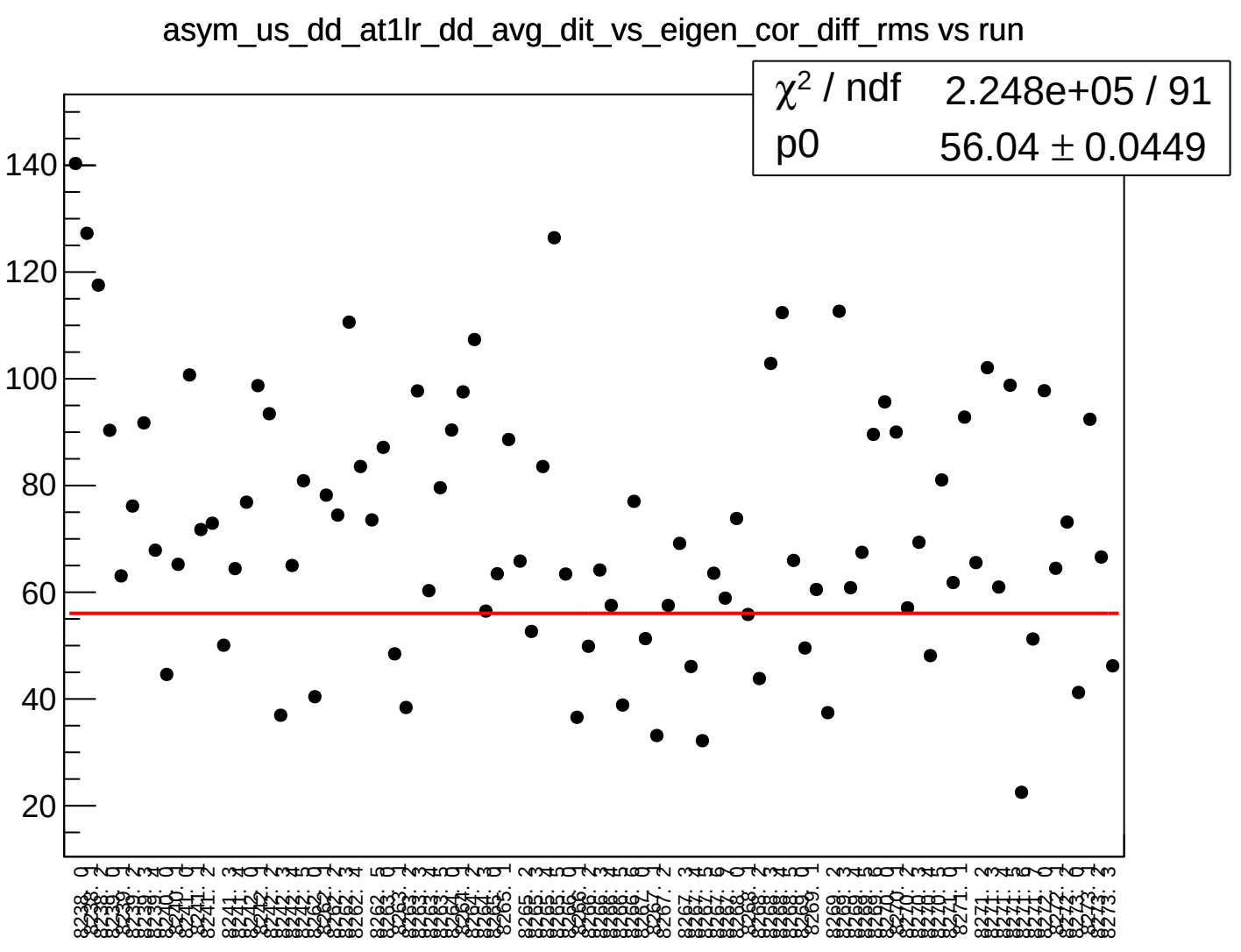

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.72 / 91
p0 −2.735e−13 ± 1.895e−13
pull
Entries 92
Mean 34.76
Std Dev 0
pull1D
Entries 92
Mean −0.08331
Std Dev 1.017

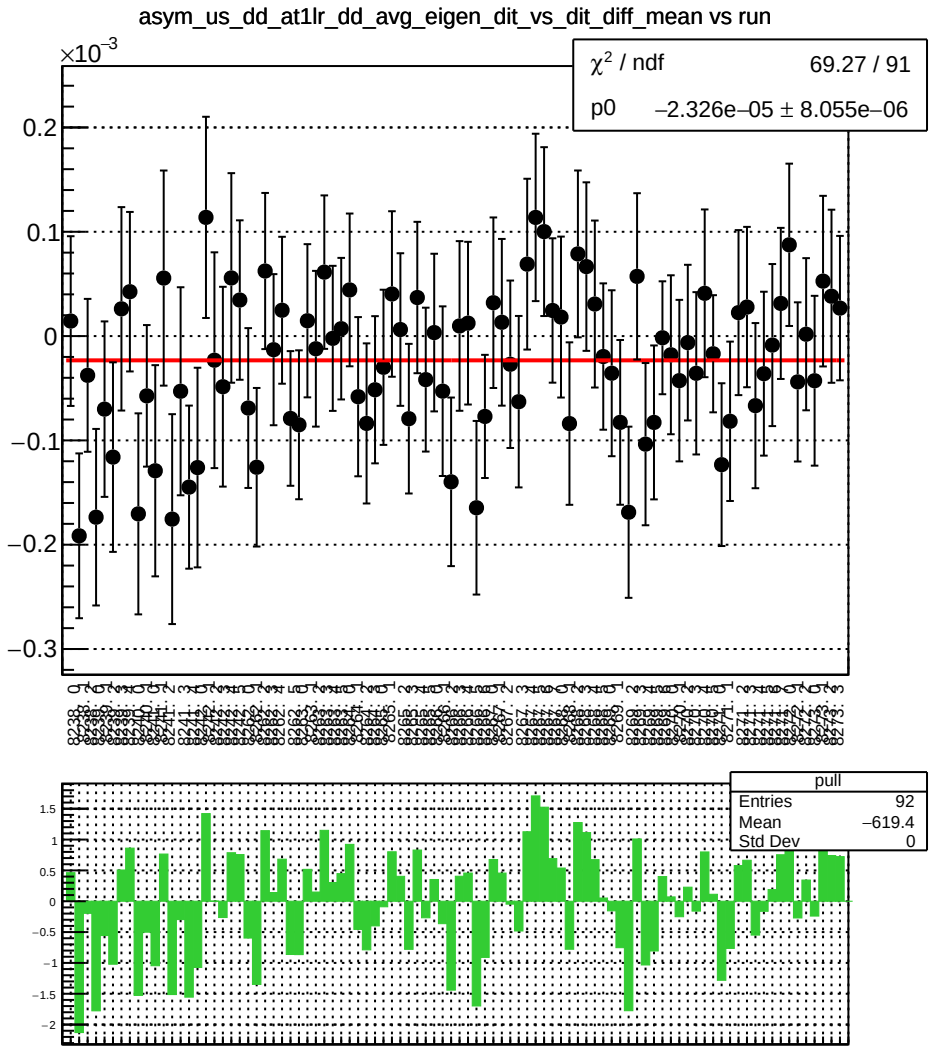

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.956e+05 / 91
p0 1.262e−10 ± 1.34e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

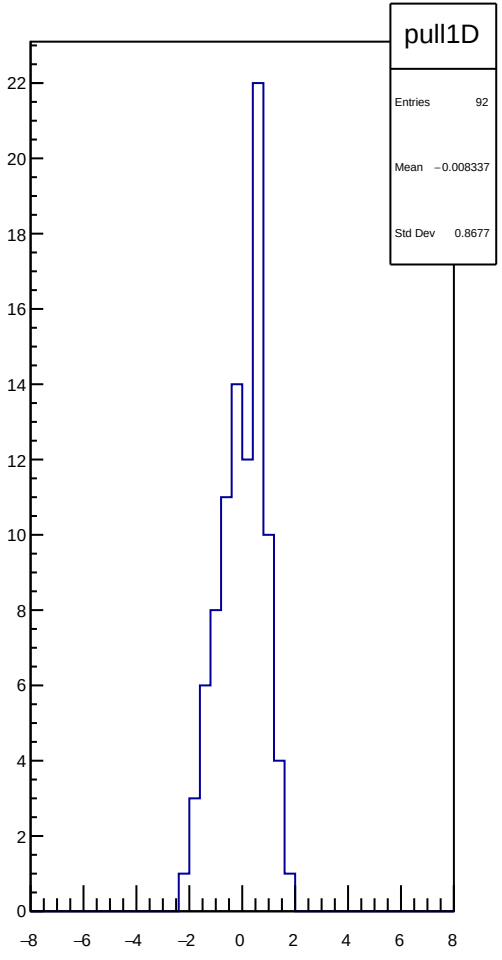

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.03 / 91
p0 0.03548 ± 0.06349
pull
Entries 92
Mean 75.98
Std Dev 35.86
pull1D
Entries 92
Mean −0.03812
Std Dev 0.994

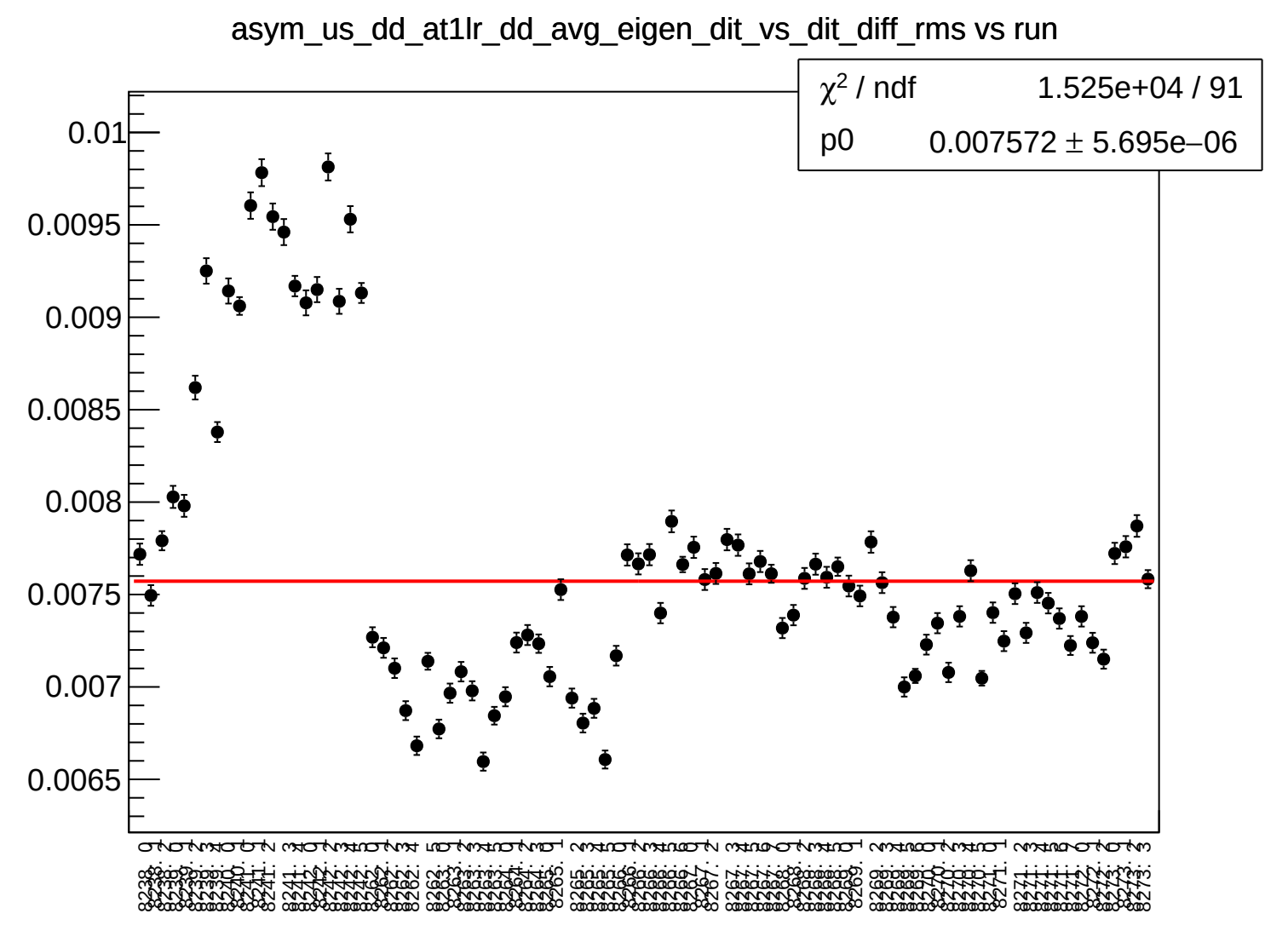

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.248e+05 / 91
p0 56.04 ± 0.0449
140
120
100
80
60
40
20

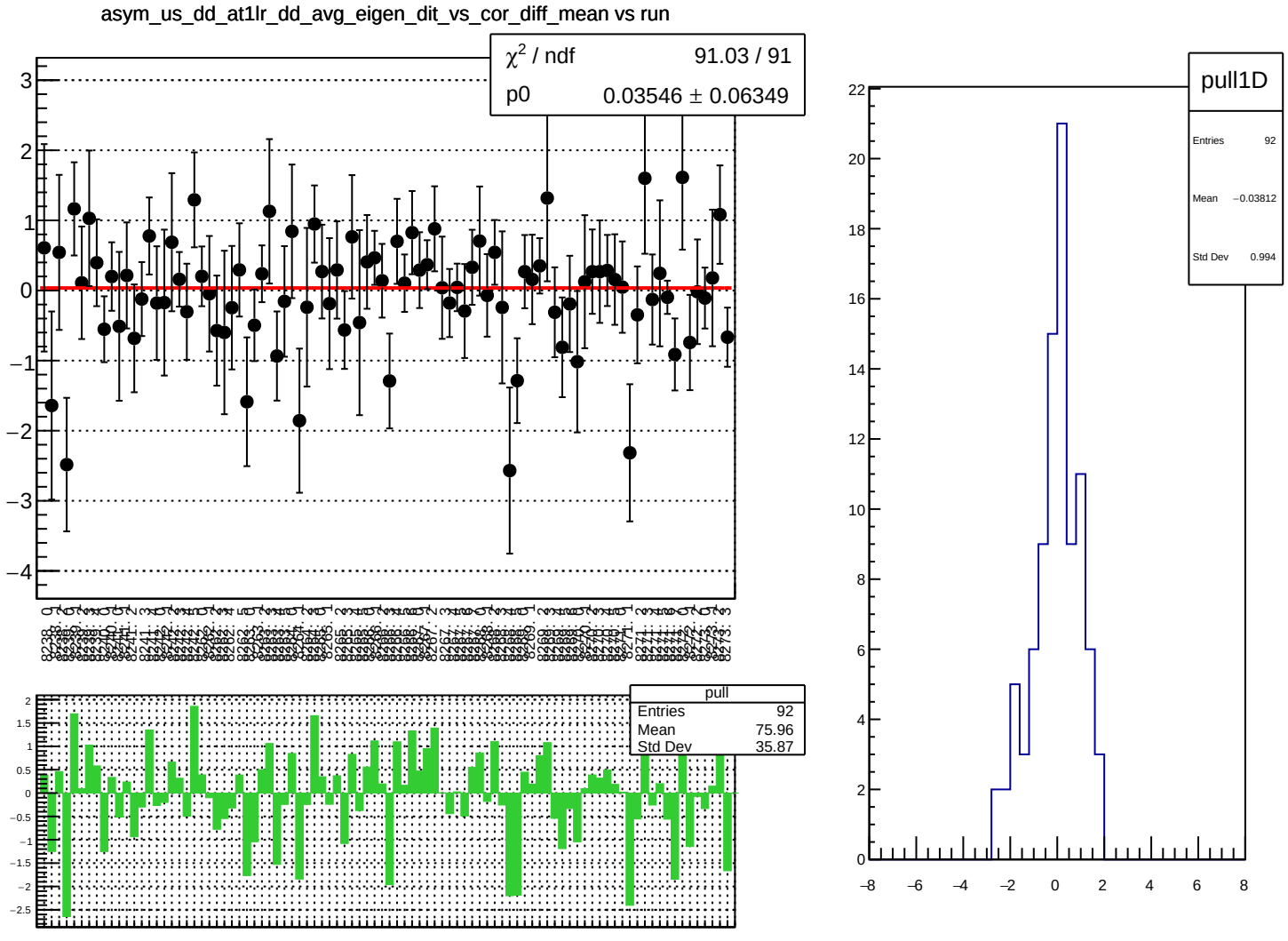

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.03 / 91
p0 0.03548 ± 0.06349
pull
Entries 92
Mean 75.98
Std Dev 35.86
pull1D
Entries 92
Mean −0.03812
Std Dev 0.994

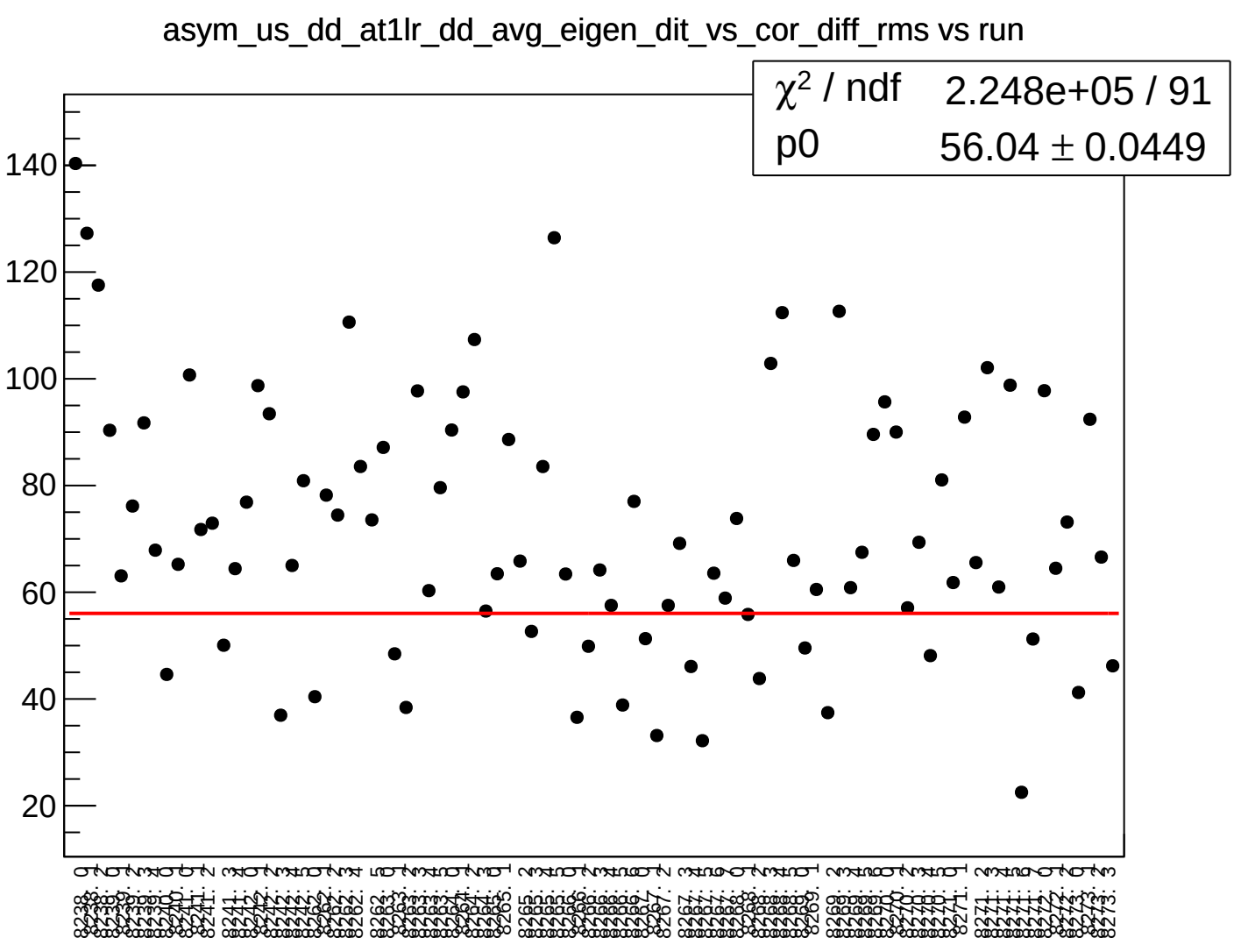

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.248e+05 / 91
p0 56.04 ± 0.0449
140
120
100
80
60
40
20

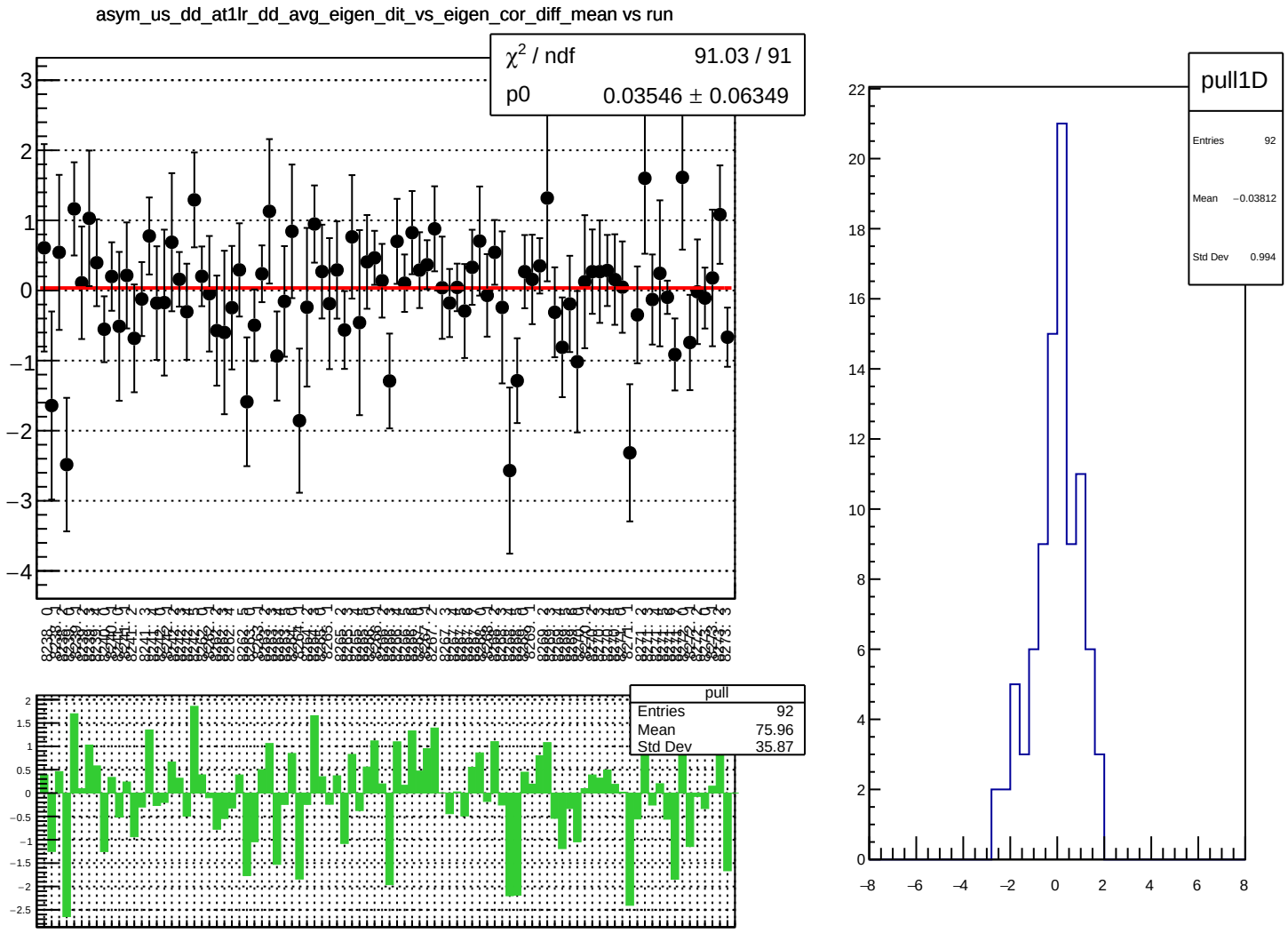

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.27 / 91
p0 −2.326e−05 ± 8.055e−06
pull
Entries 92
Mean −619.4
Std Dev 0

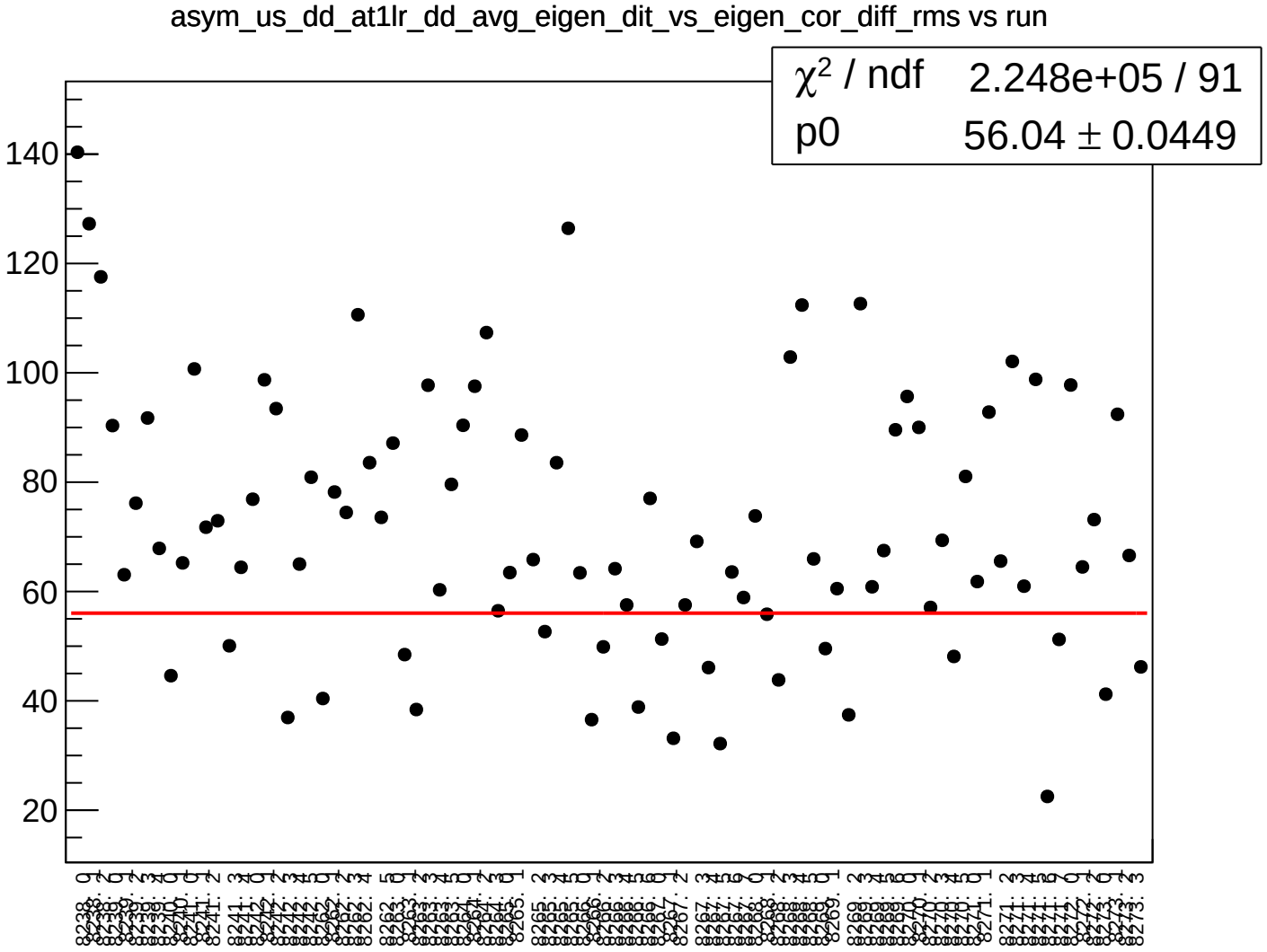

pull1D
Entries 92
Mean −0.008337
Std Dev 0.8677

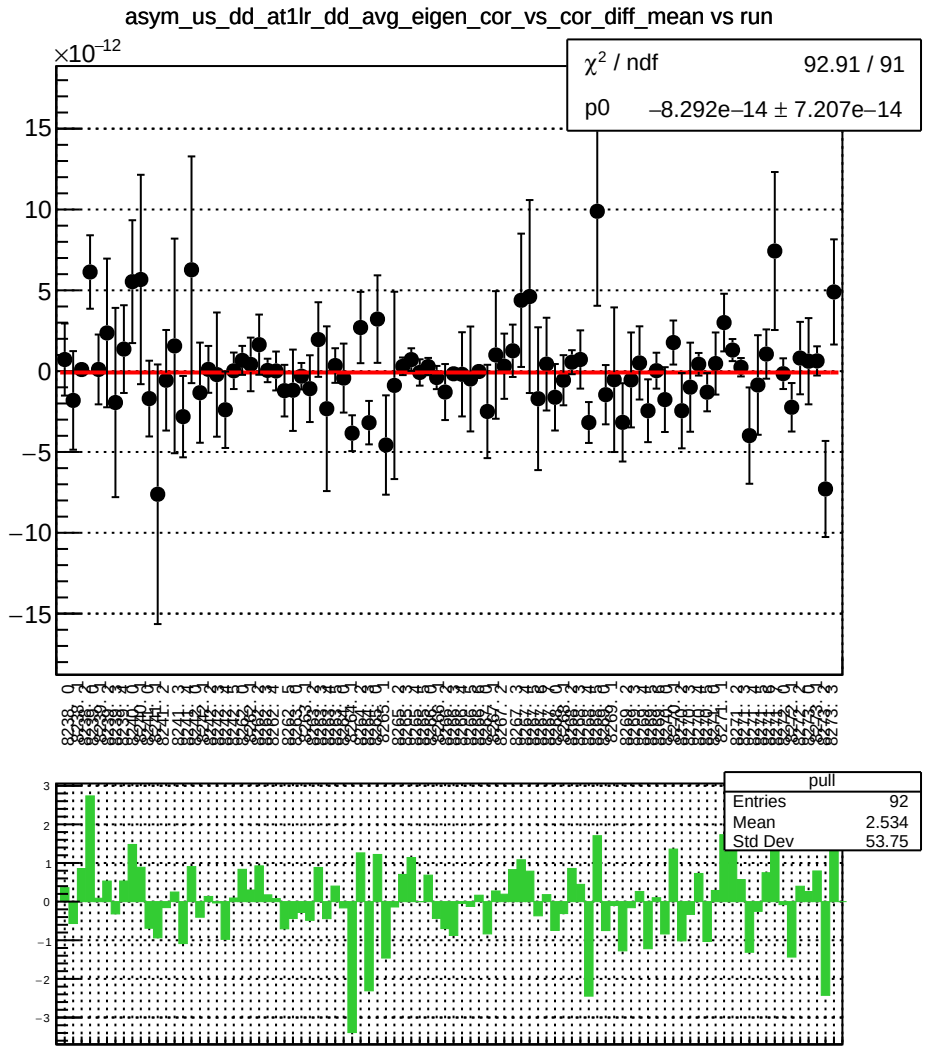

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.525e+04 / 91
p0 0.007572 ± 5.695e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

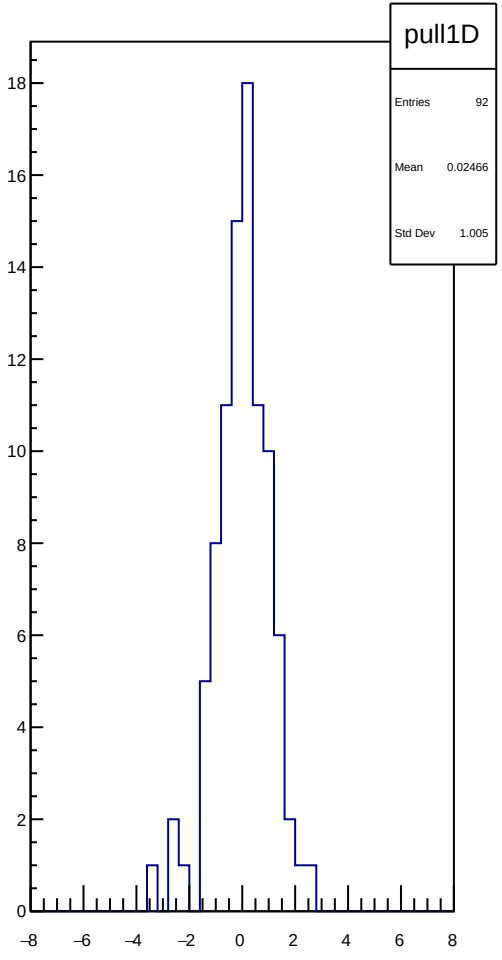

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.03 / 91
p0 0.03546 ± 0.06349
pull
Entries 92
Mean 75.96
Std Dev 35.87
pull1D
Entries 92
Mean −0.03812
Std Dev 0.994

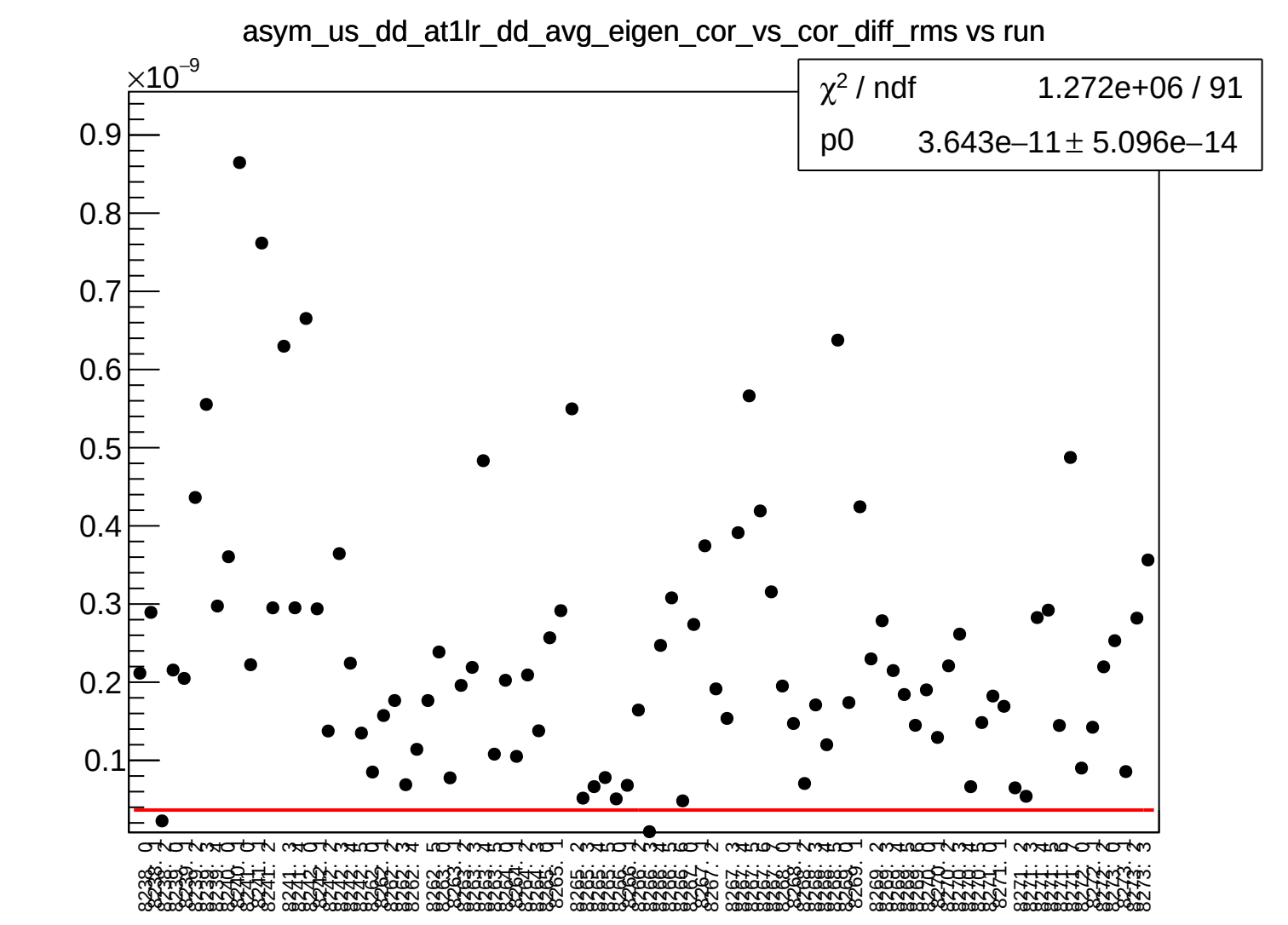

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.248e+05 / 91
p0 56.04 ± 0.0449
140
120
100
80
60
40
20

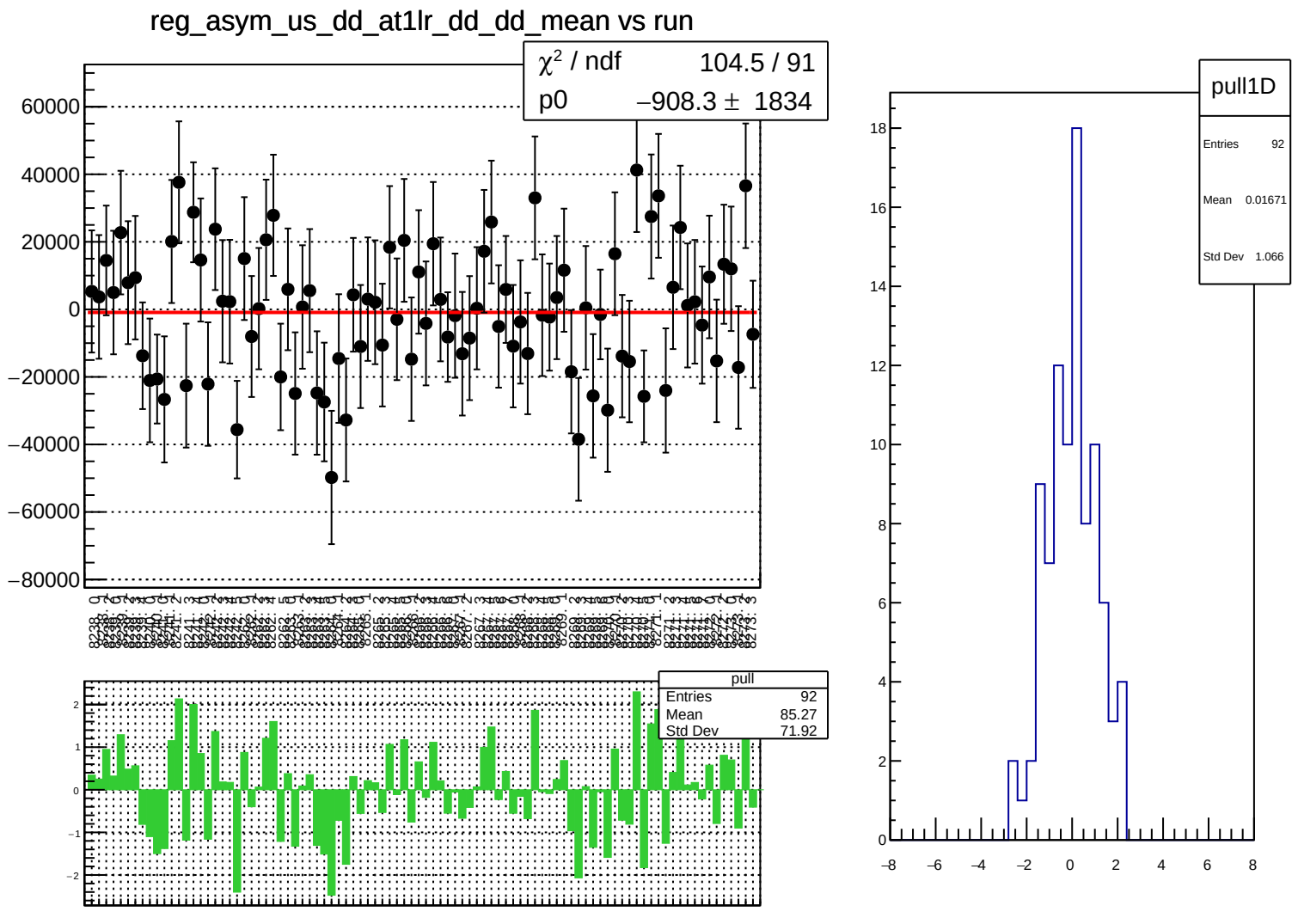

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.03 / 91
p0 0.03546 ± 0.06349
pull
Entries 92
Mean 75.96
Std Dev 35.87
pull1D
Entries 92
Mean −0.03812
Std Dev 0.994

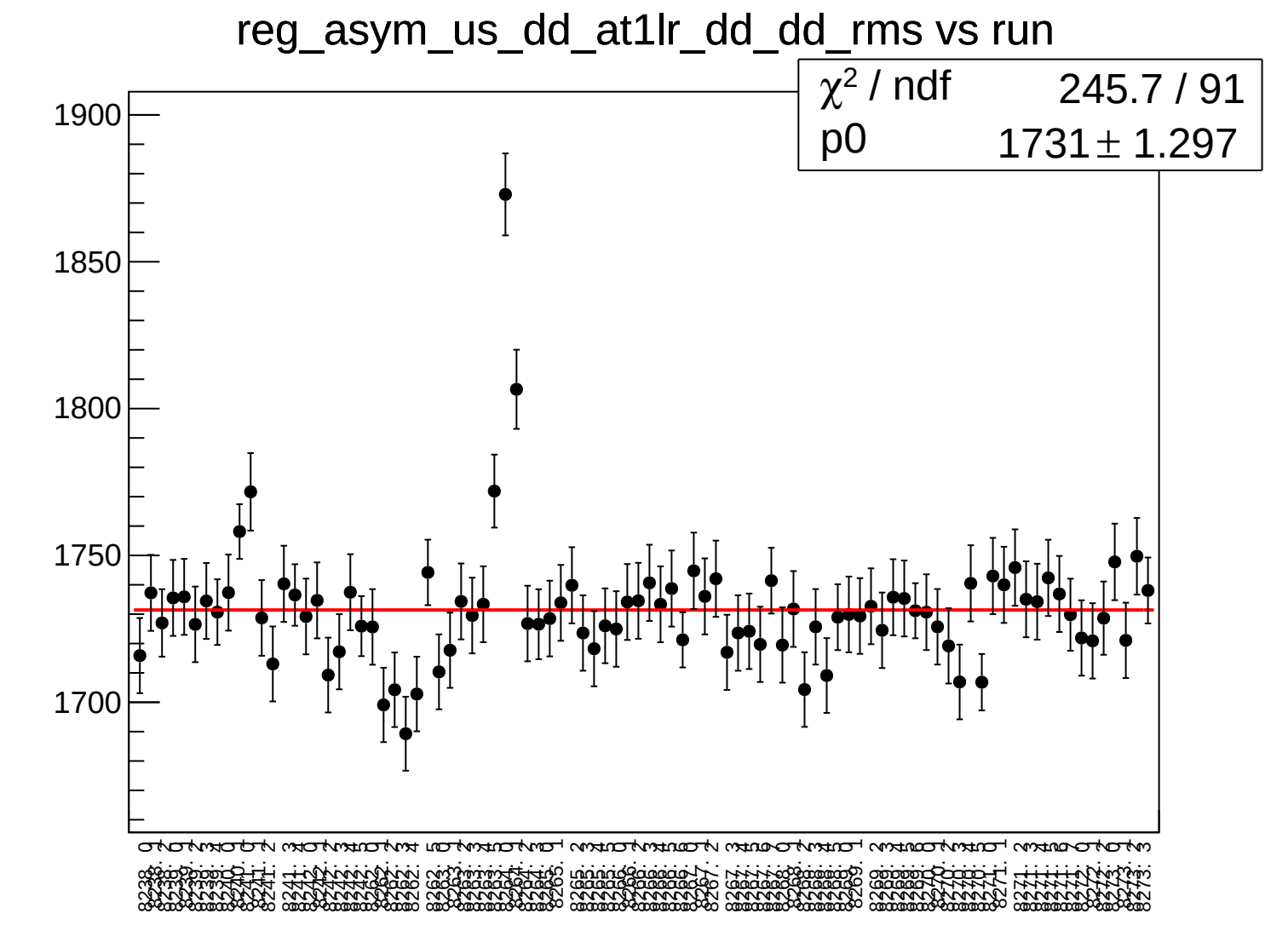

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.248e+05 / 91
p0 56.04 ± 0.0449
140
120
100
80
60
40
20

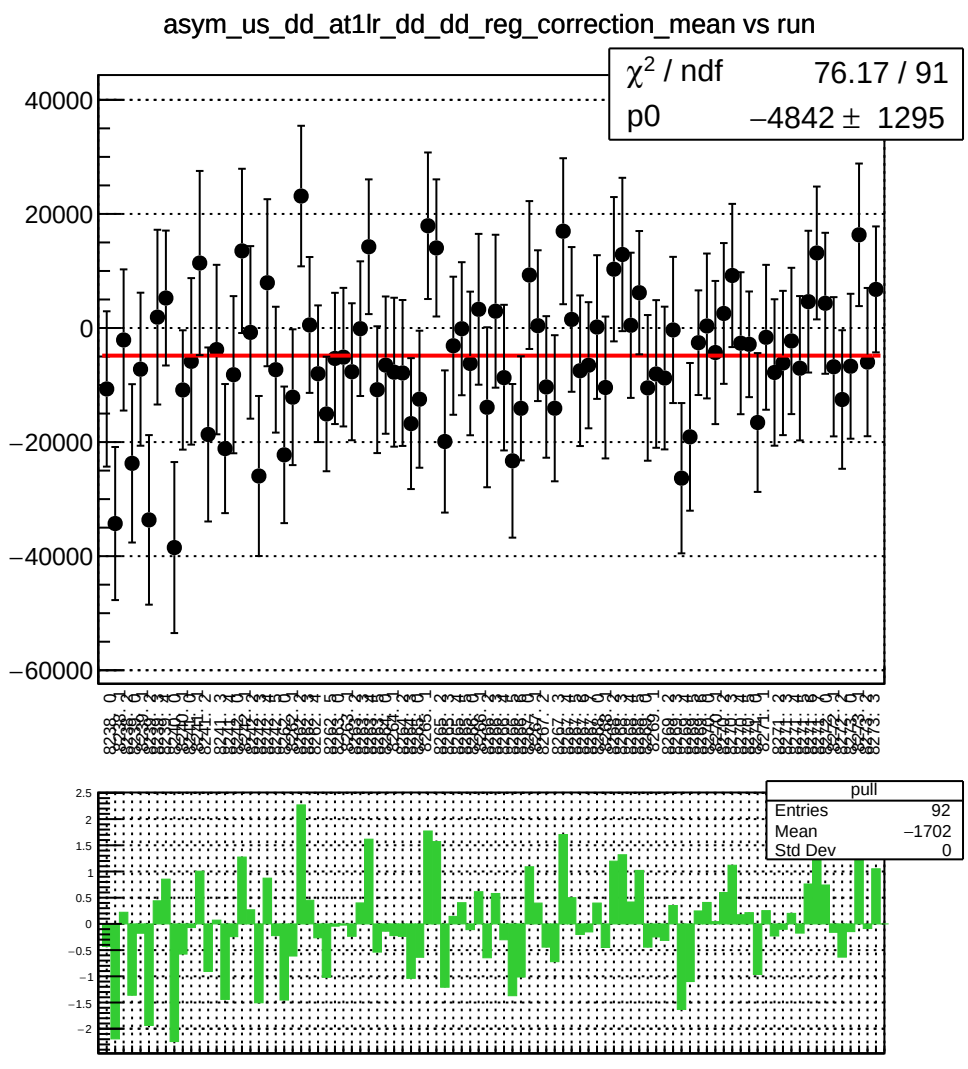

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.91 / 91
p0 −8.292e−14 ± 7.207e−14
pull
Entries 92
Mean 2.534
Std Dev 53.75

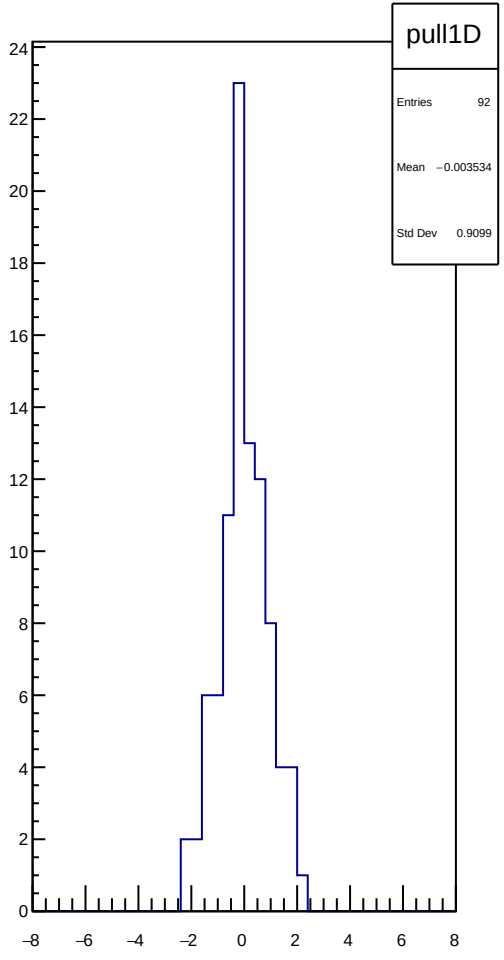

pull1D
Entries 92
Mean 0.02466
Std Dev 1.005

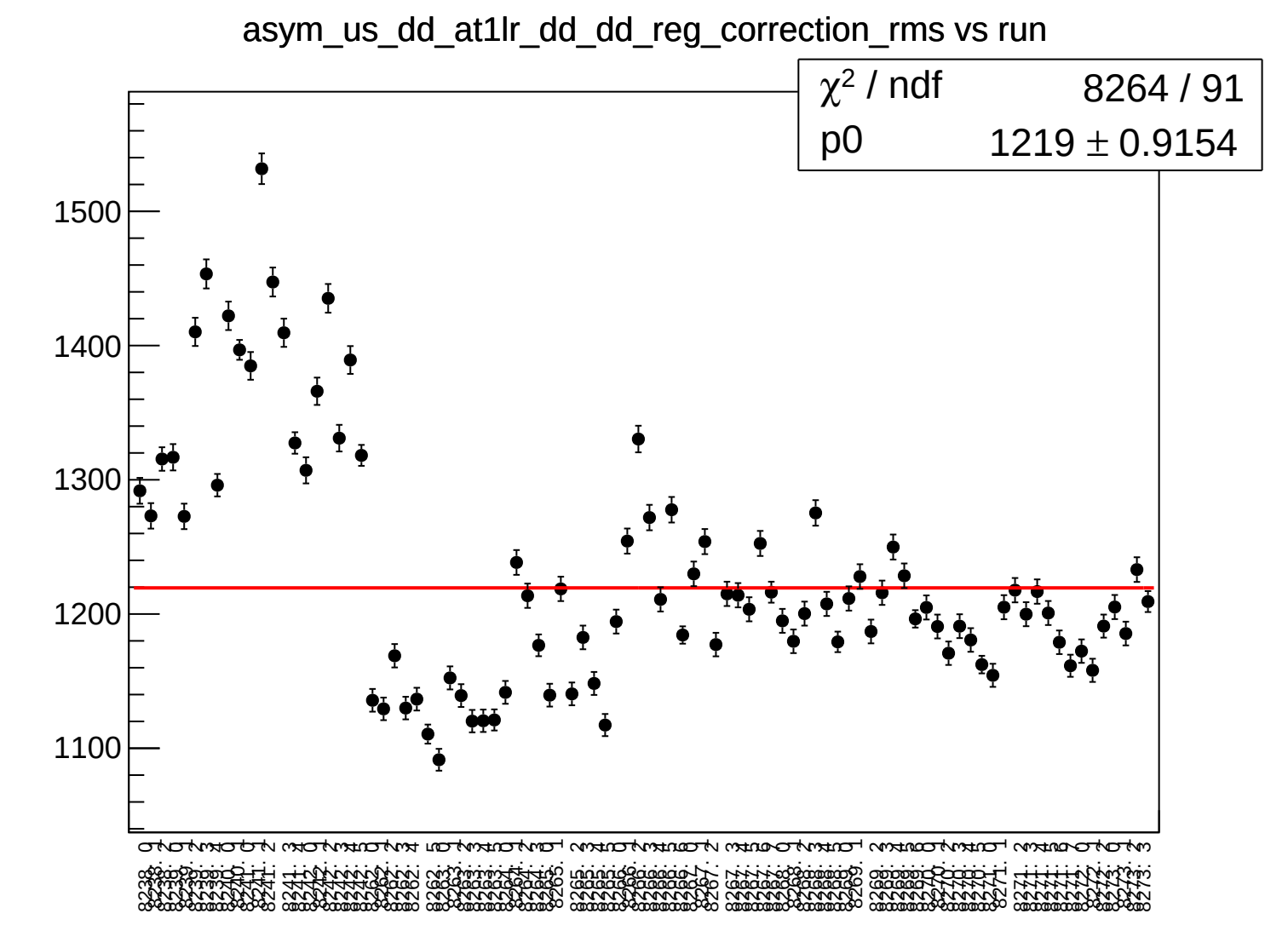

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.272e+06 / 91
p0 3.643e−11 ± 5.096e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

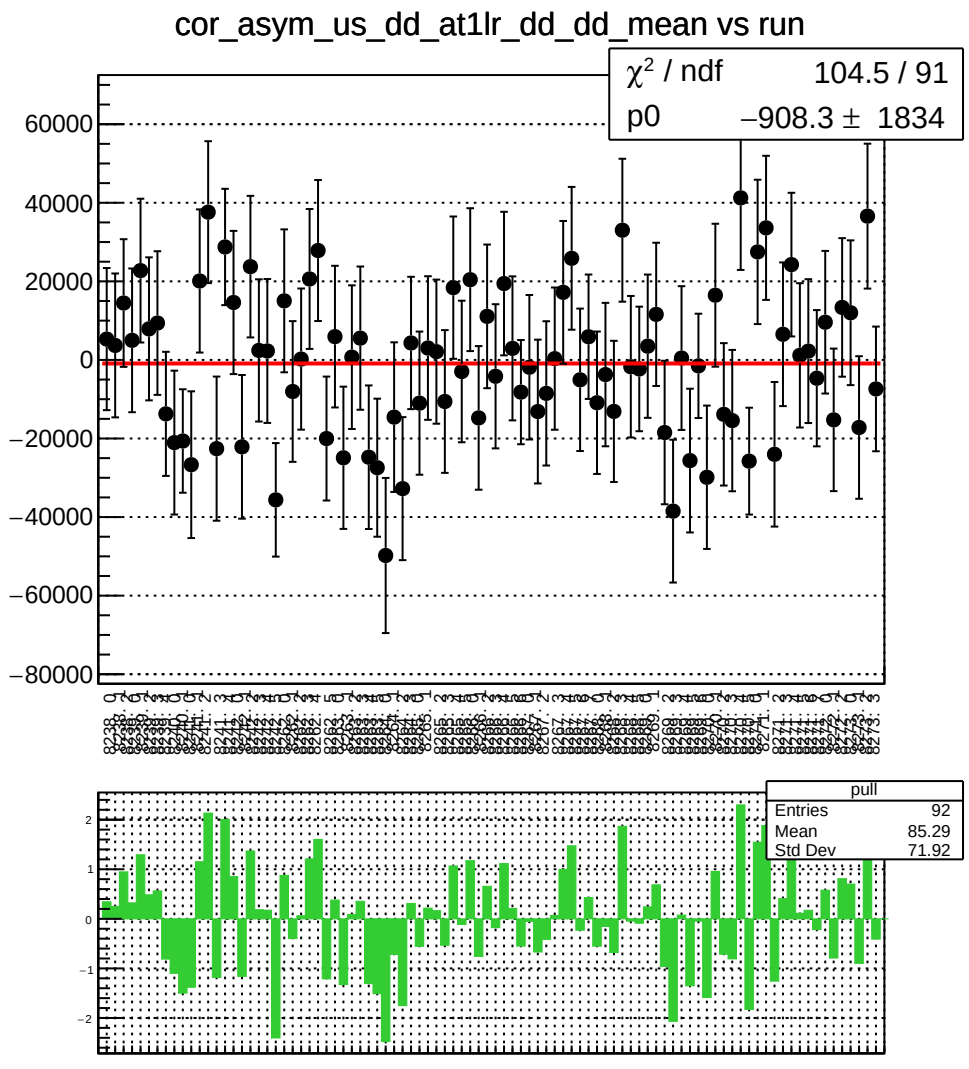

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 104.5 / 91
p0 −908.3 ± 1834
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 85.27
Std Dev 71.92
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.01671
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

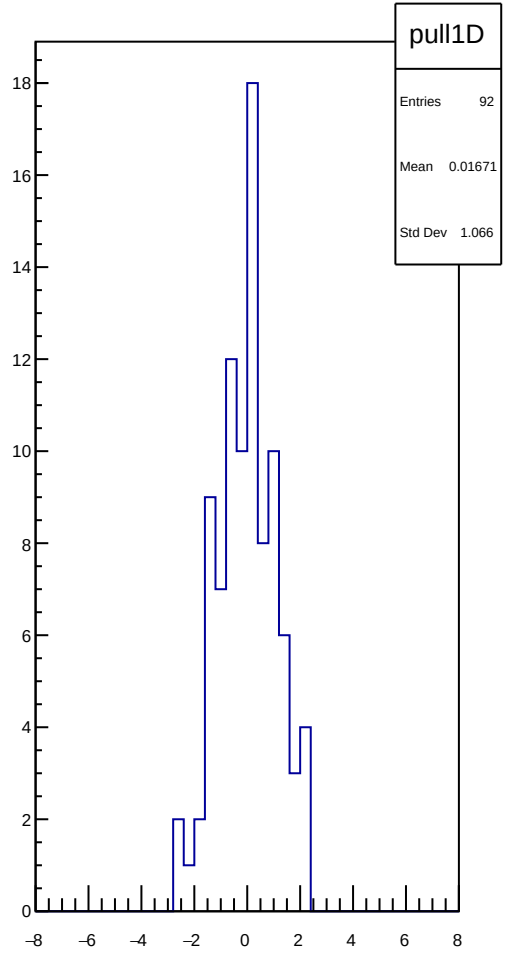

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 245.7 / 91
p0 1731 ± 1.297
1900
1850
1800
1750
1700

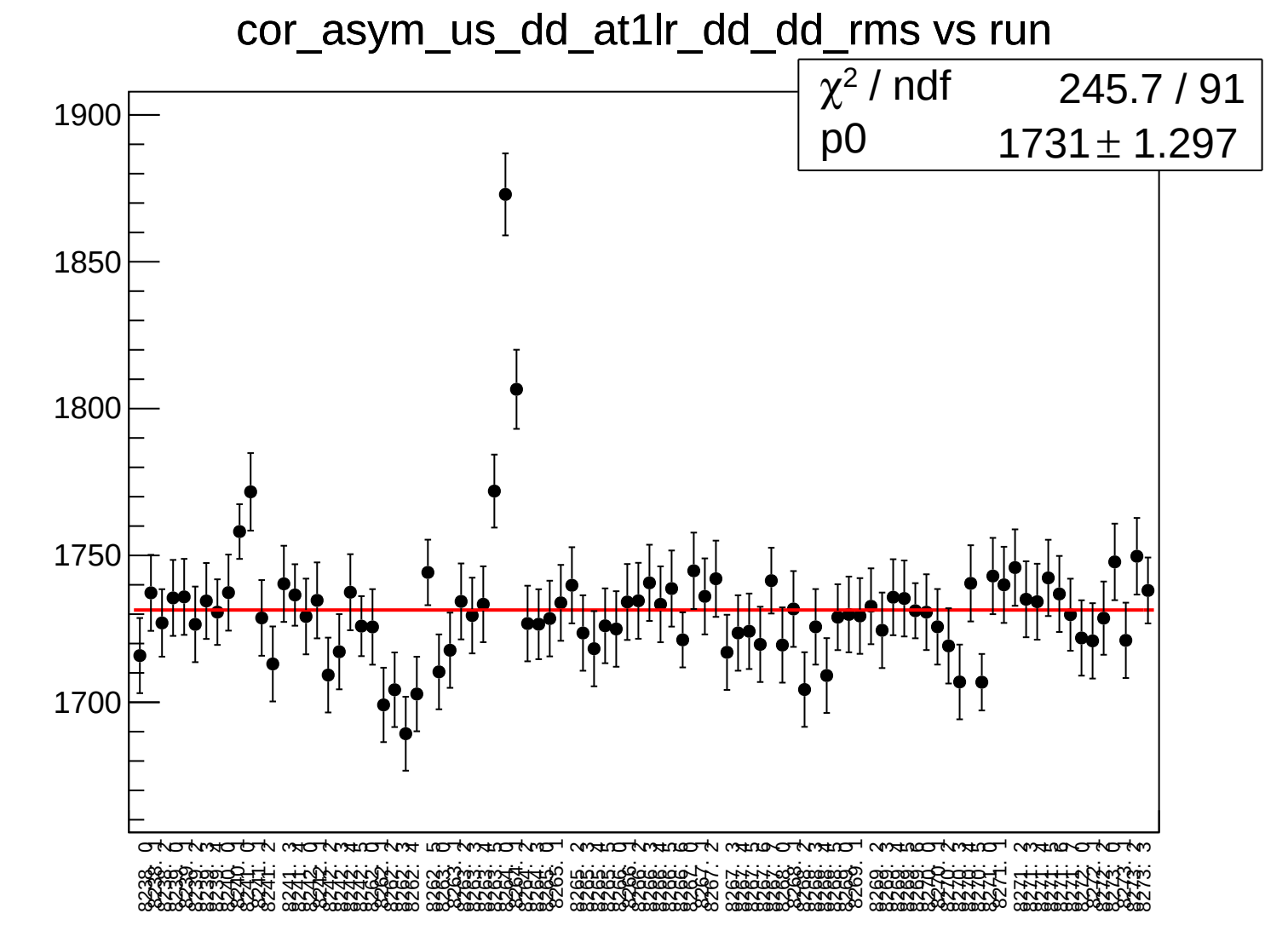

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 76.17 / 91
p0 −4842 ± 1295
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1702
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

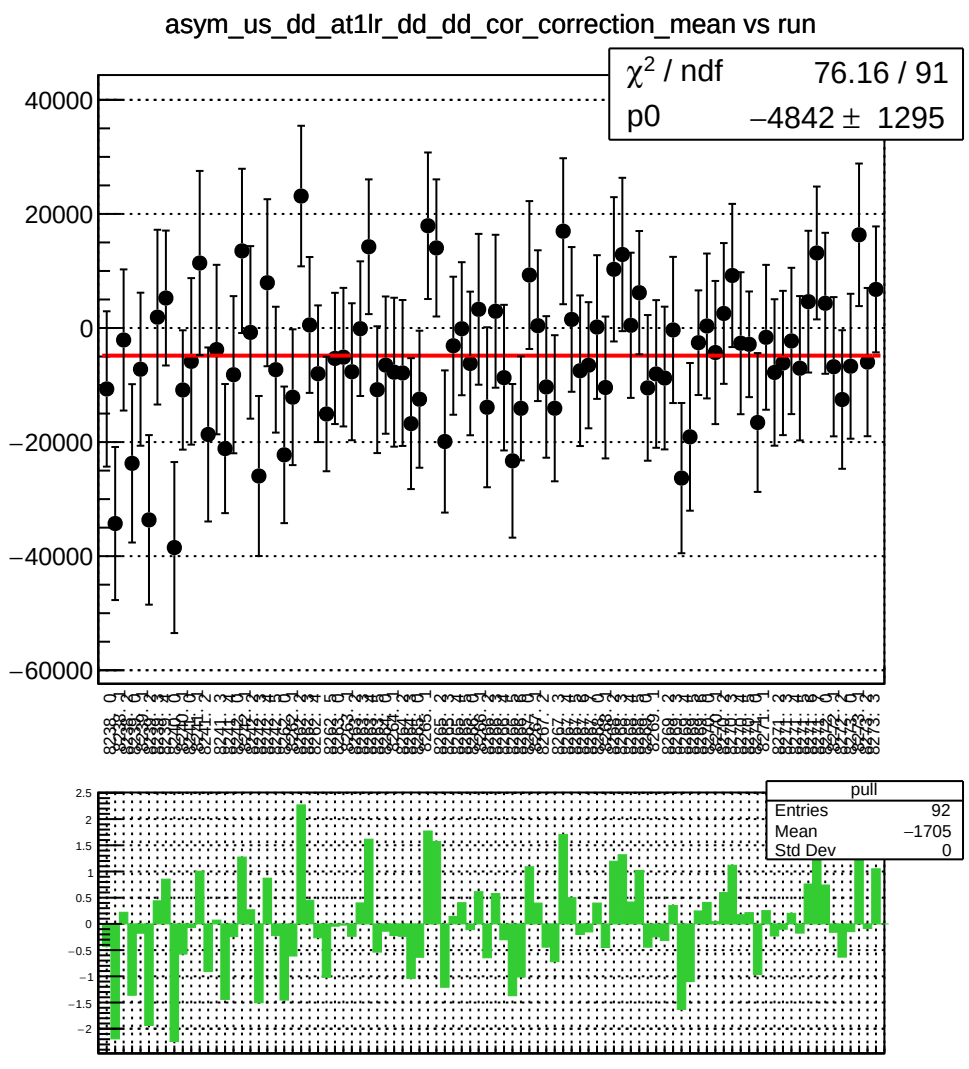

pull1D
Entries 92
Mean −0.003534
Std Dev 0.9099
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

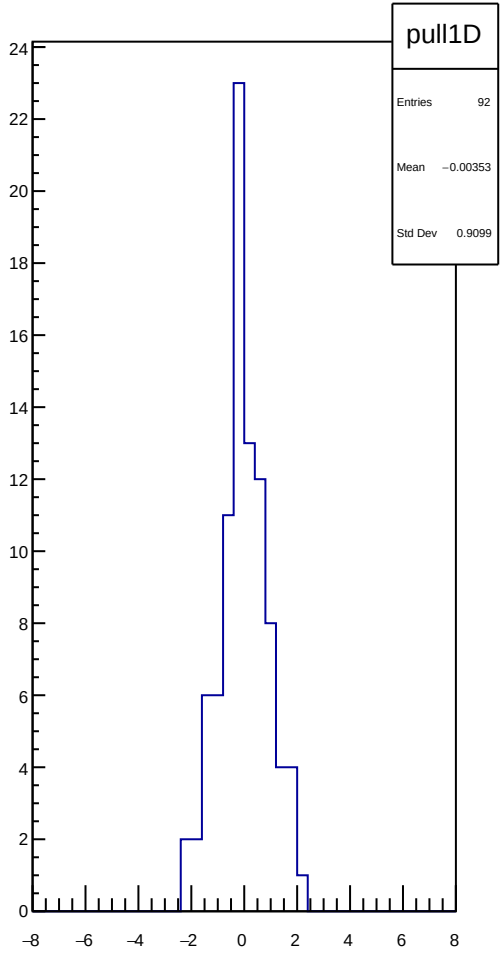

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 8264 / 91
p0 1219 ± 0.9154
1500
1400
1300
1200
1100

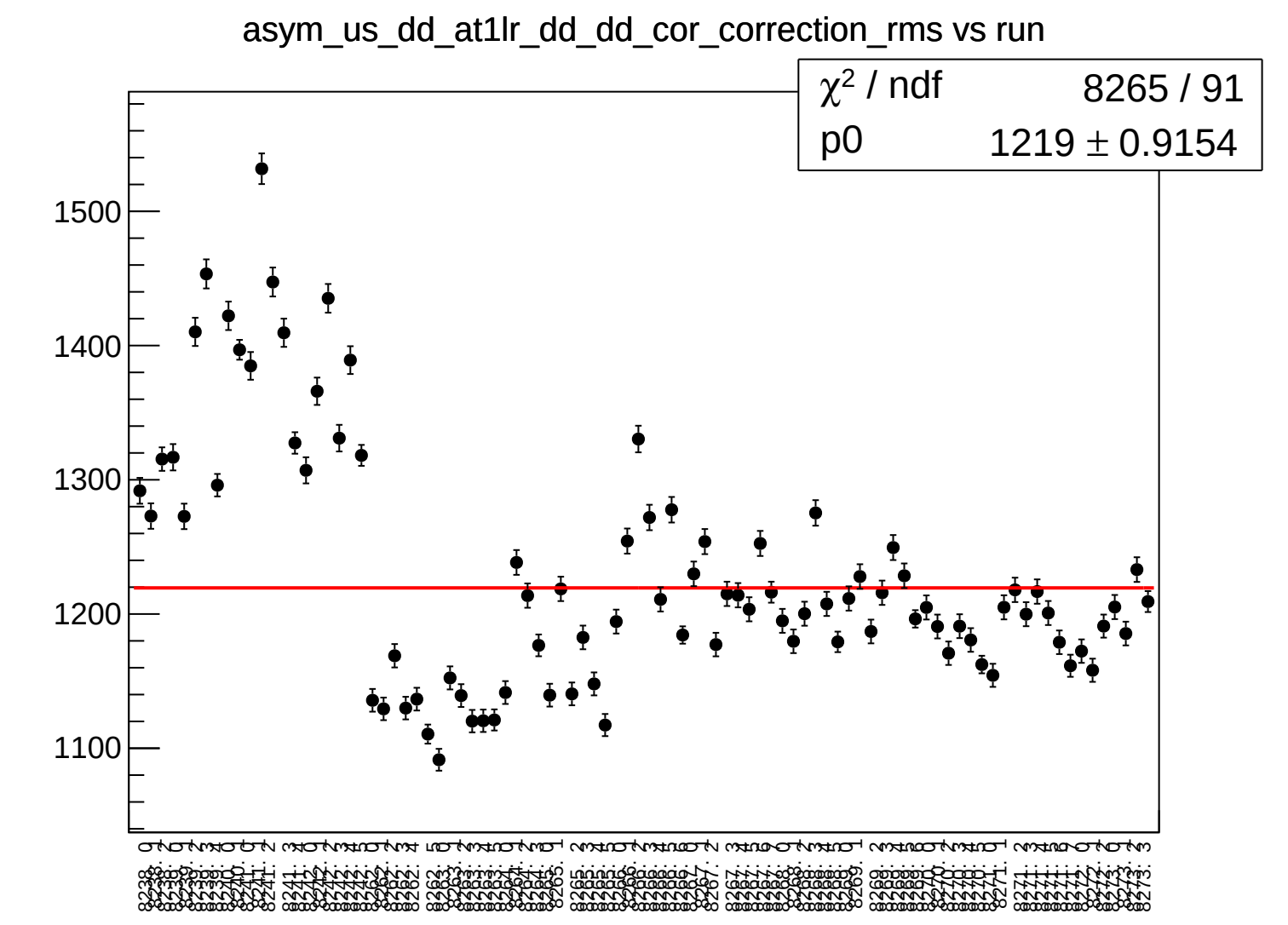

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 104.5 / 91
p0 −908.3 ± 1834
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 85.29
Std Dev 71.92
2
1
0
−1
−2

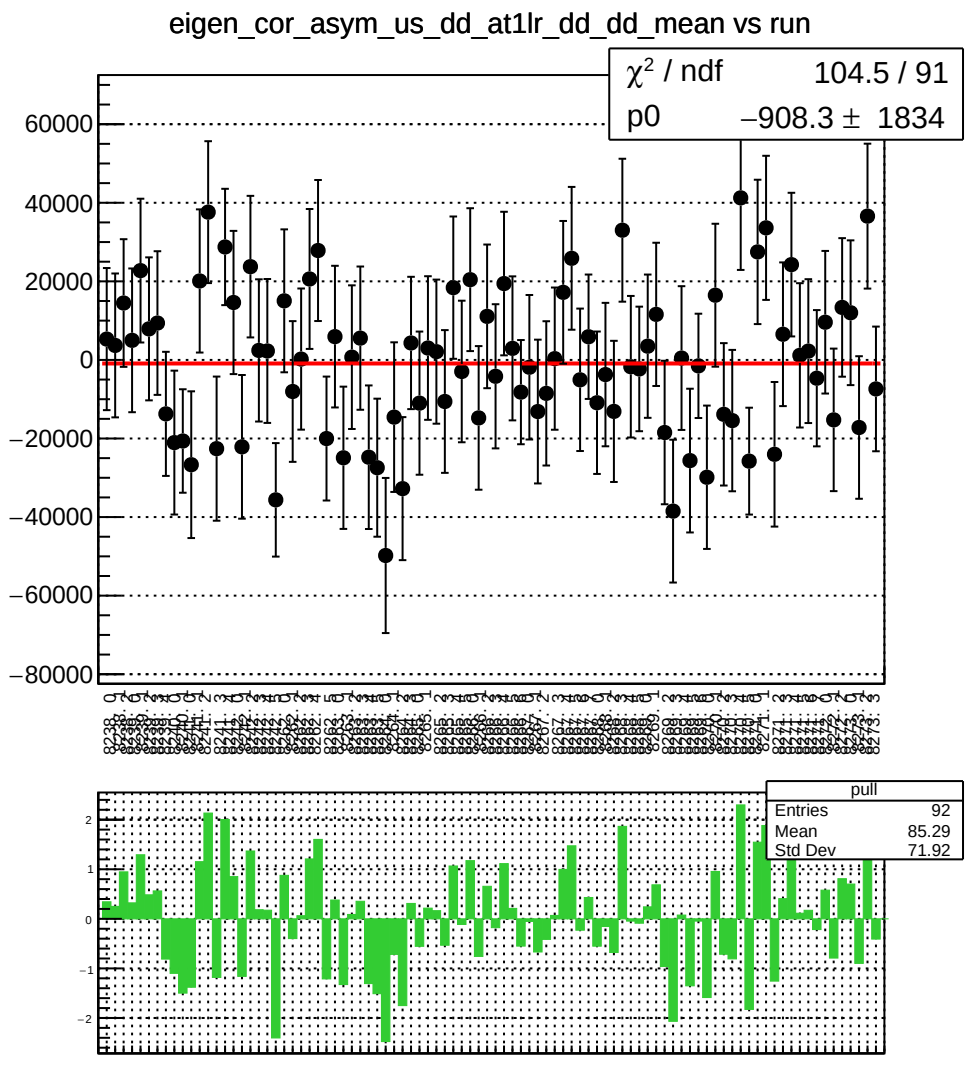

pull1D
Entries 92
Mean 0.01671
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

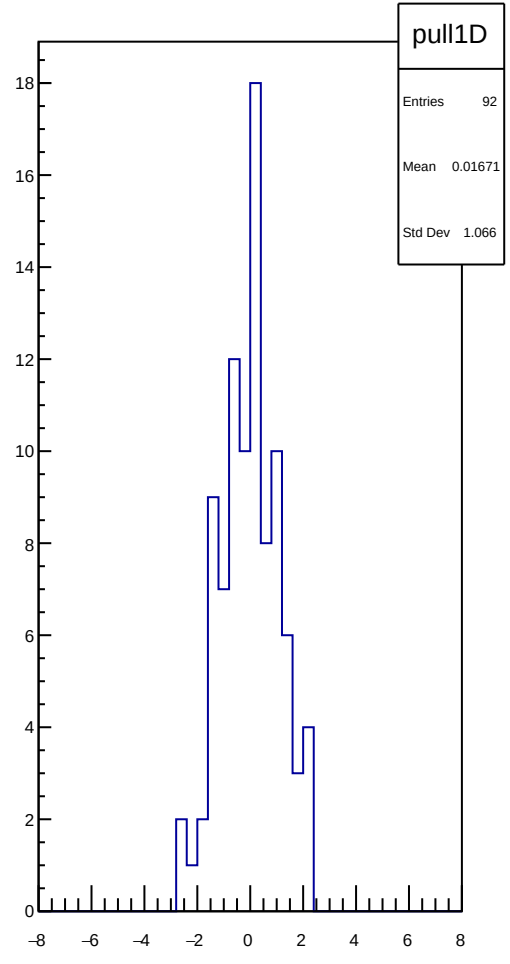

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 245.7 / 91
p0 1731 ± 1.297
1900
1850
1800
1750
1700

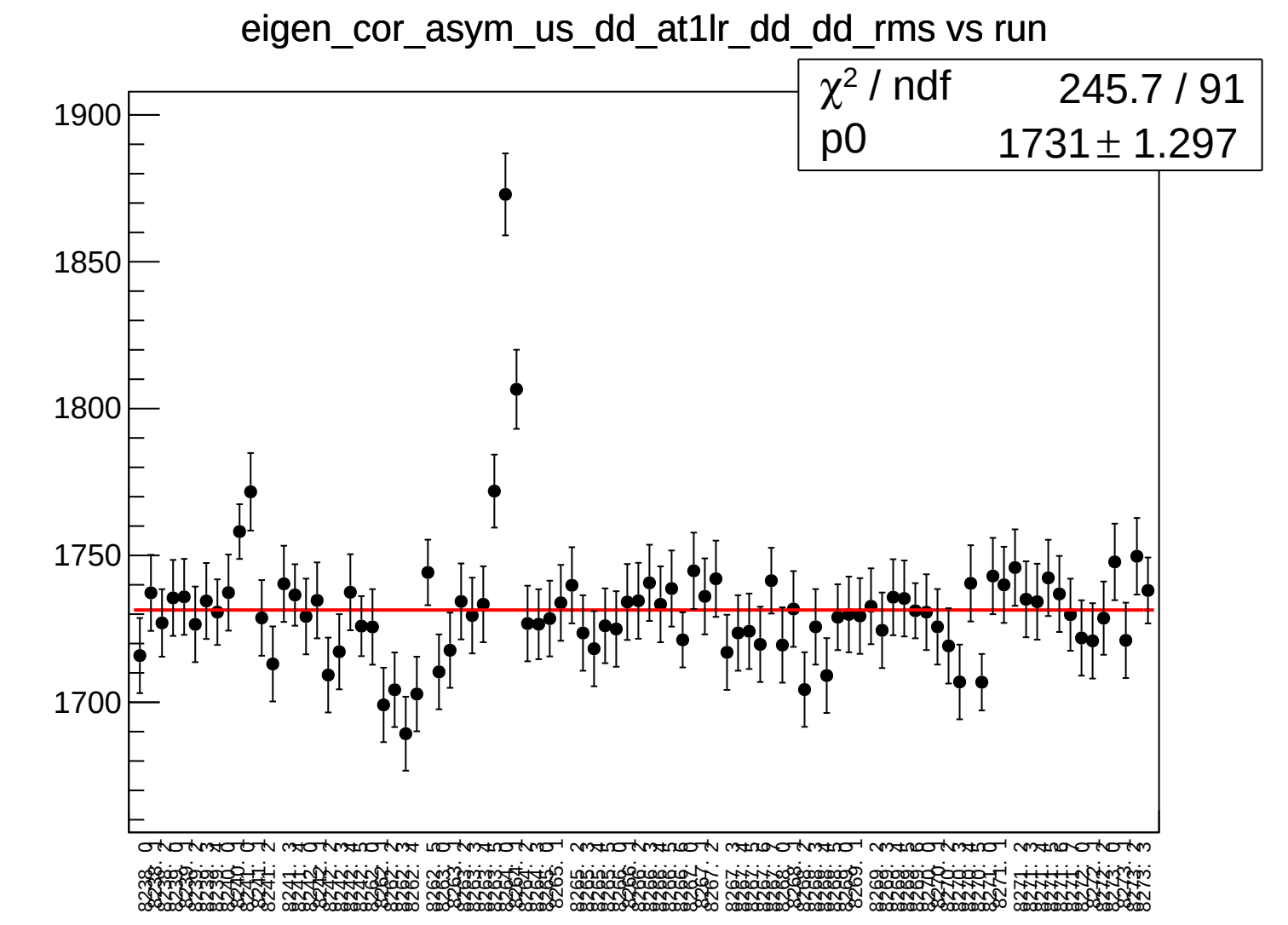

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 76.16 / 91
p0 −4842 ± 1295
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1705
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

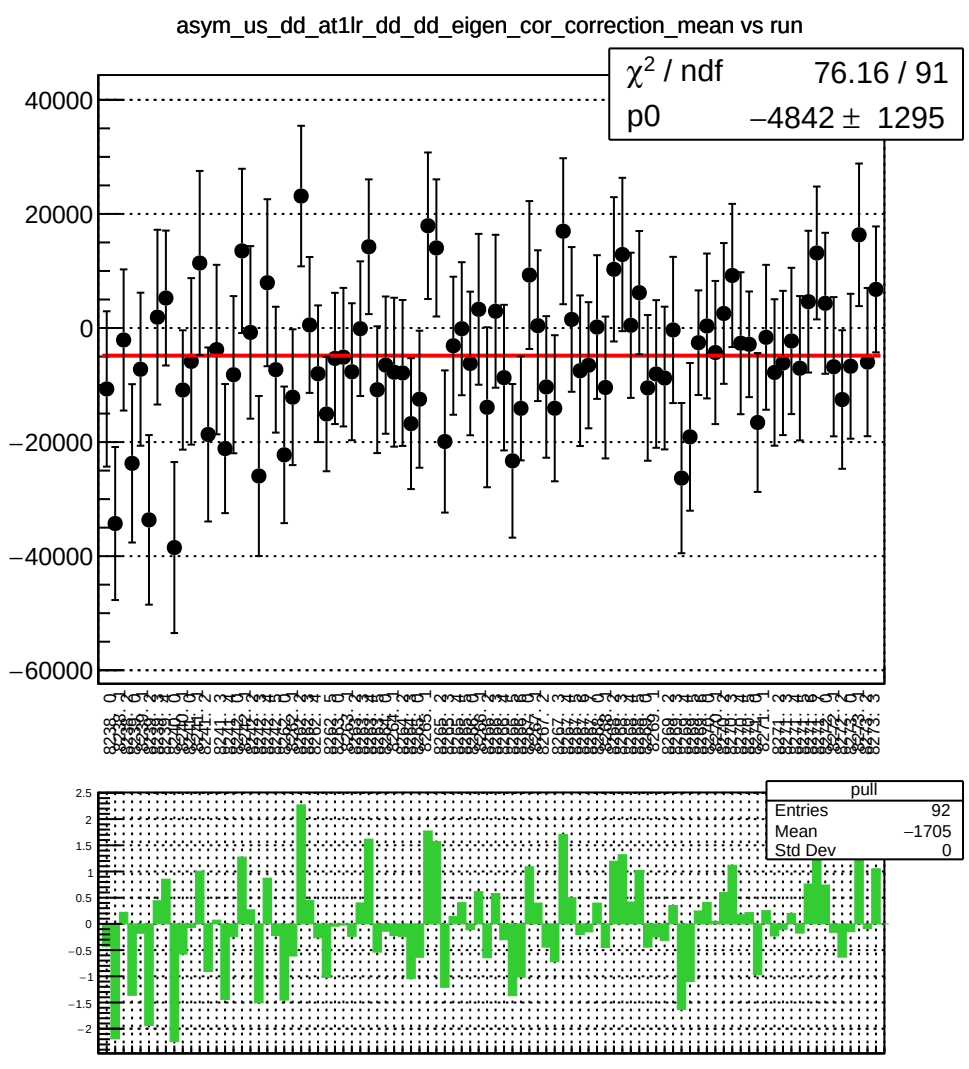

pull1D
Entries 92
Mean −0.00353
Std Dev 0.9099
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

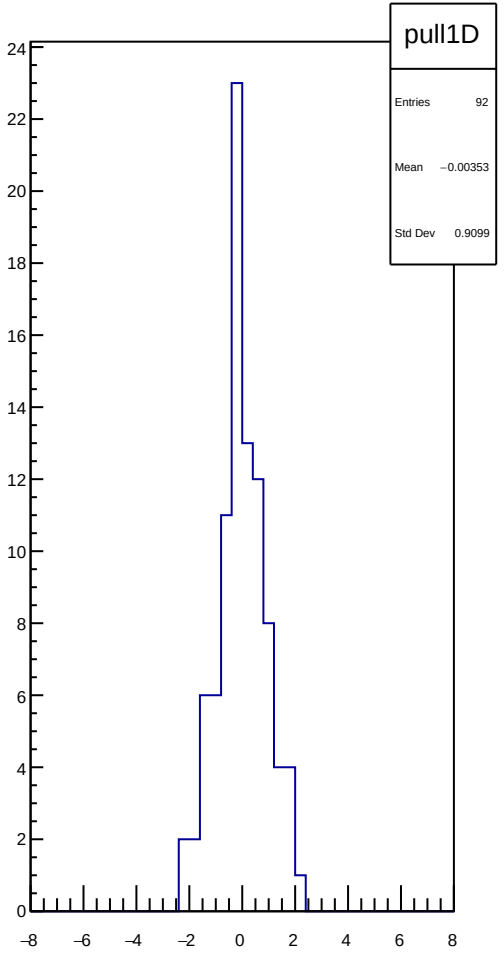

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 8265 / 91
p0 1219 ± 0.9154
1500
1400
1300
1200
1100

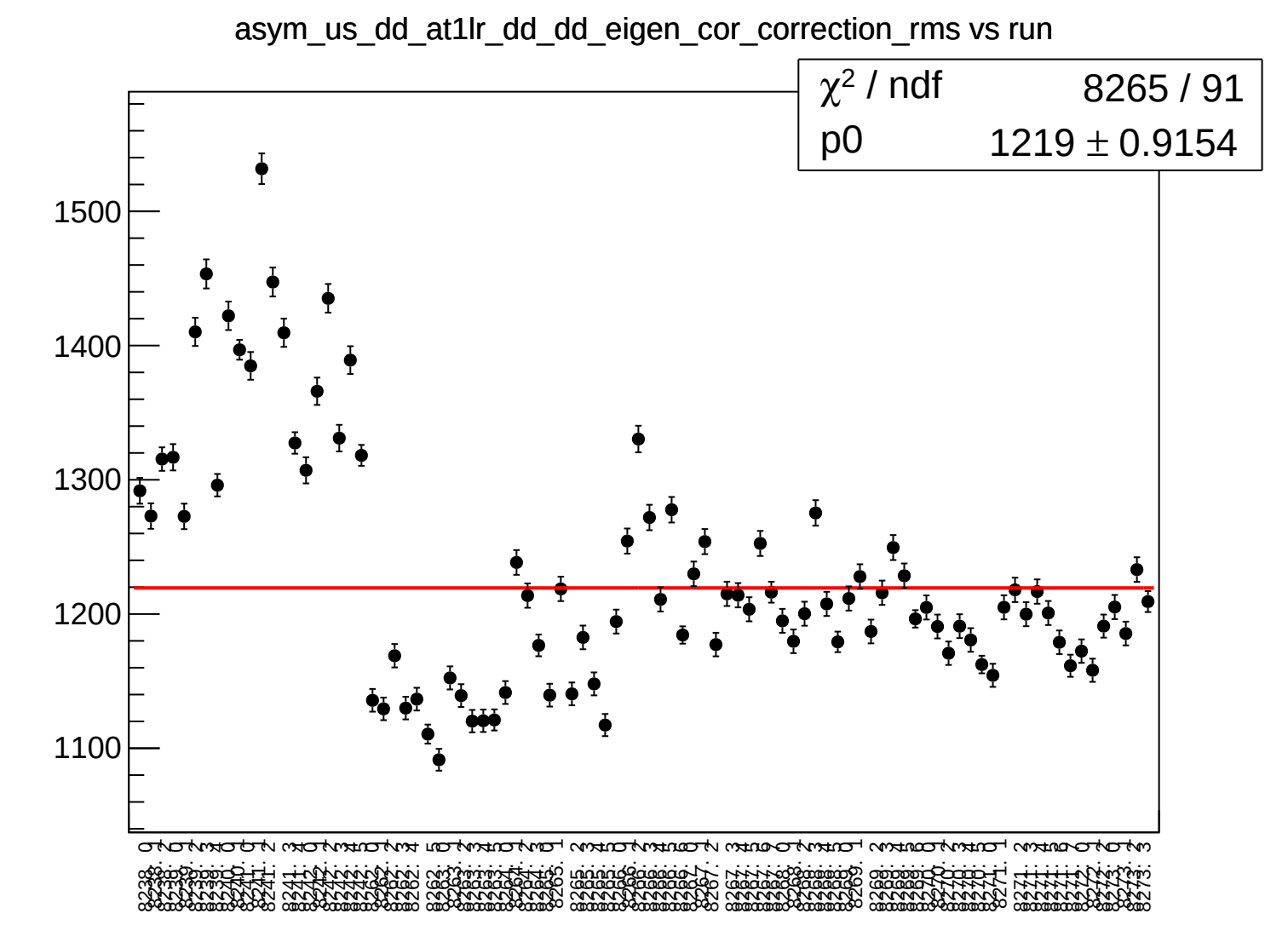

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 104.5 / 91
p0 −908.3 ± 1834
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 85.29
Std Dev 71.92
2
1
0
−1
−2

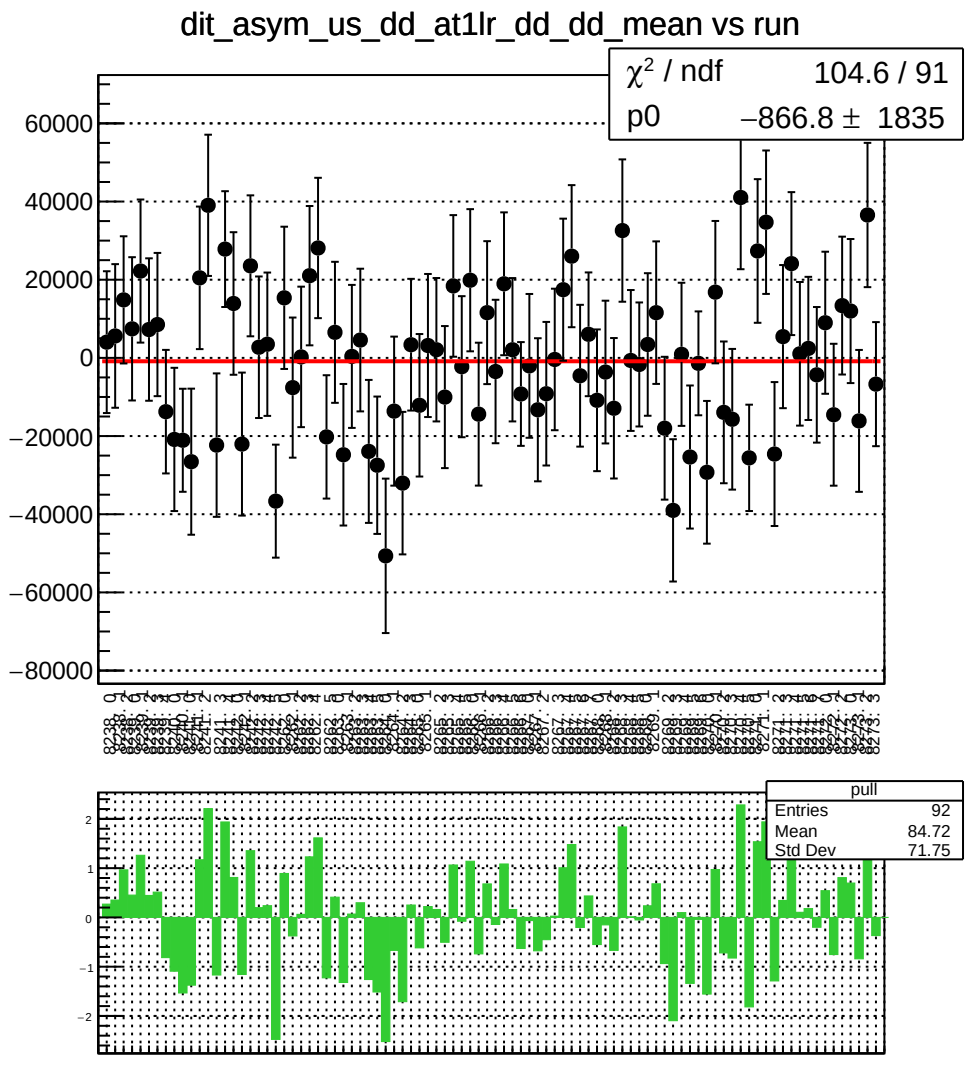

pull1D
Entries 92
Mean 0.01671
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

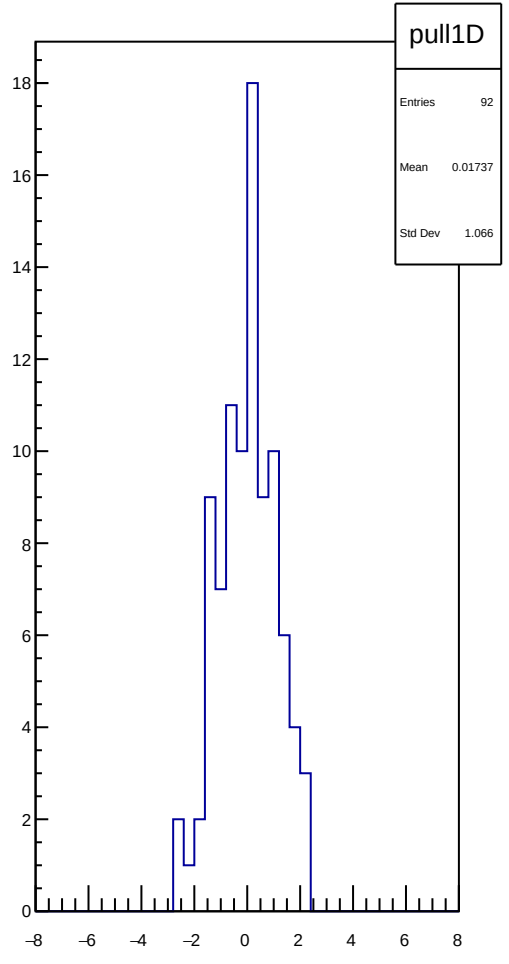

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 245.7 / 91
p0 1731 ± 1.297
1900
1850
1800
1750
1700

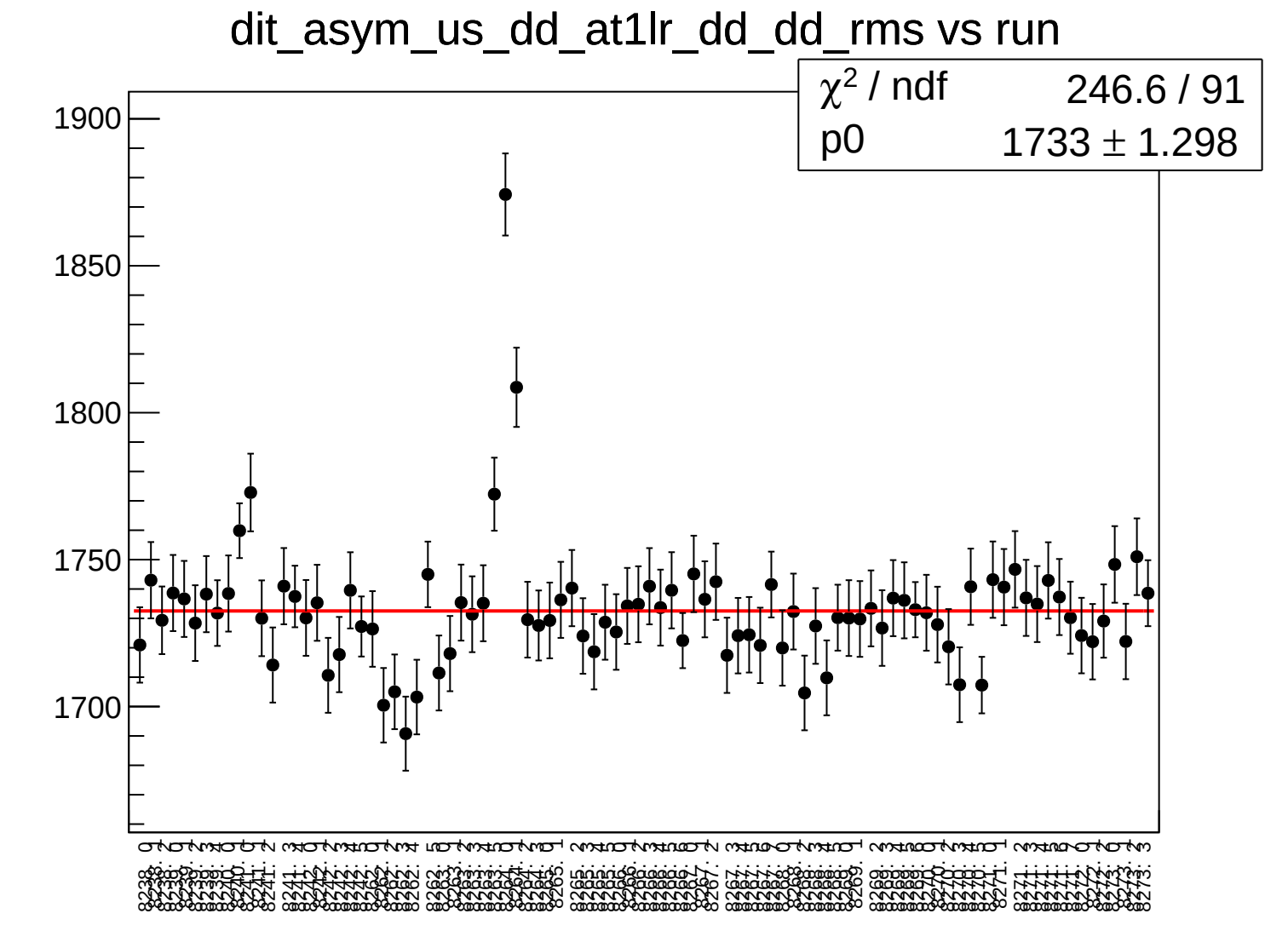

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.16 / 91
p0 −4842 ± 1295
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1705
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

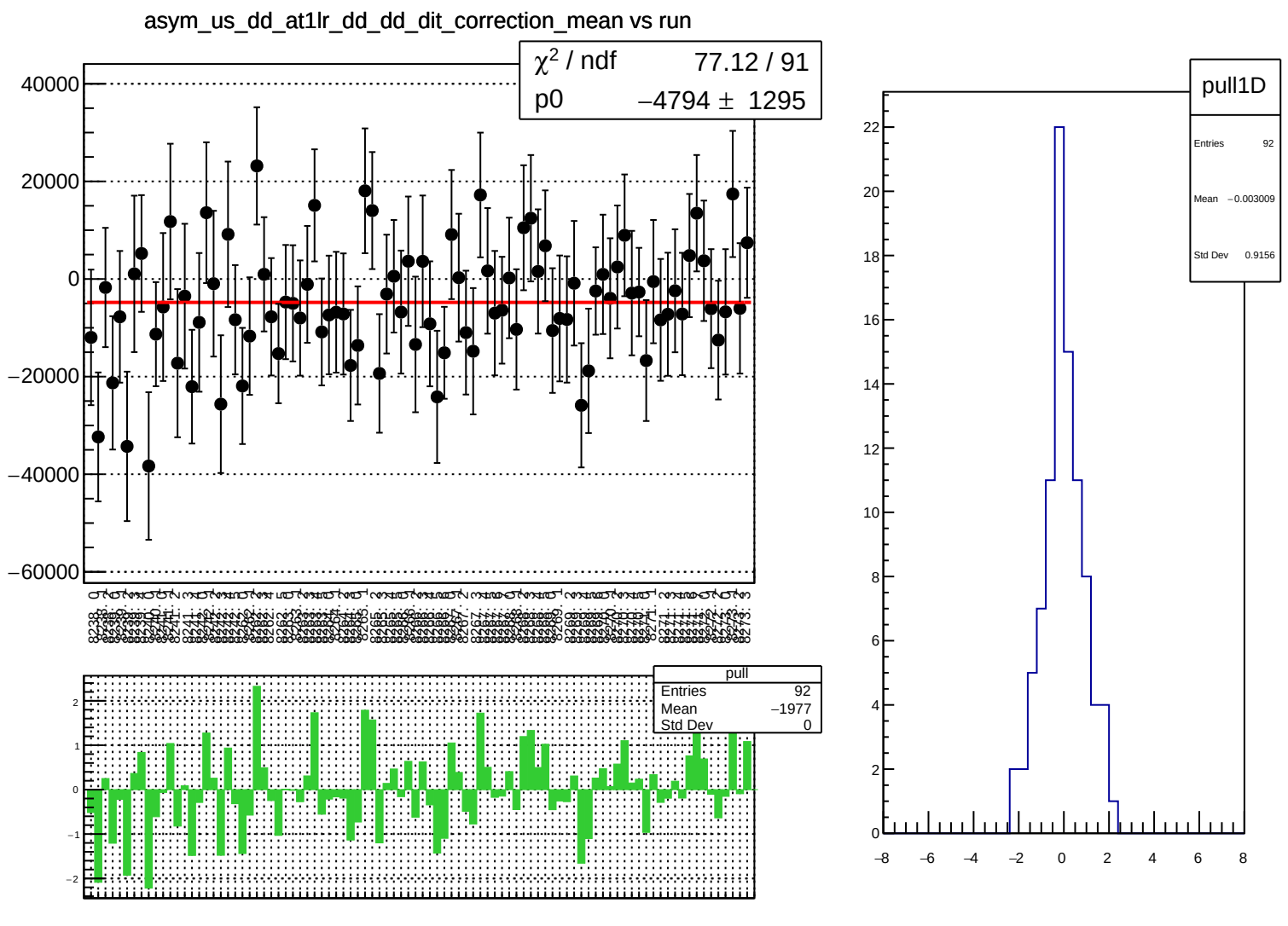

pull1D
Entries 92
Mean −0.00353
Std Dev 0.9099
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

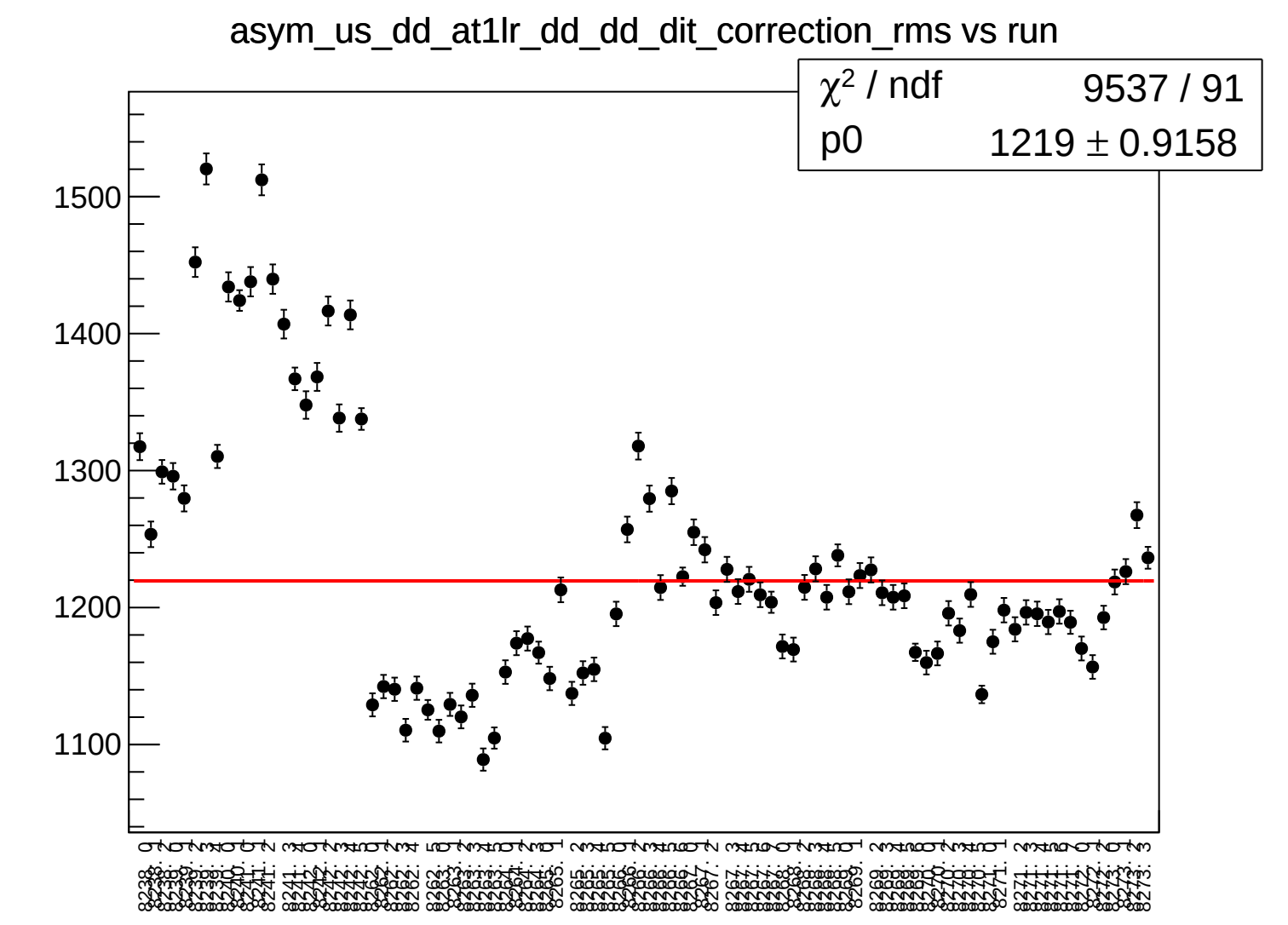

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 8265 / 91
p0 1219 ± 0.9154
1500
1400
1300
1200
1100

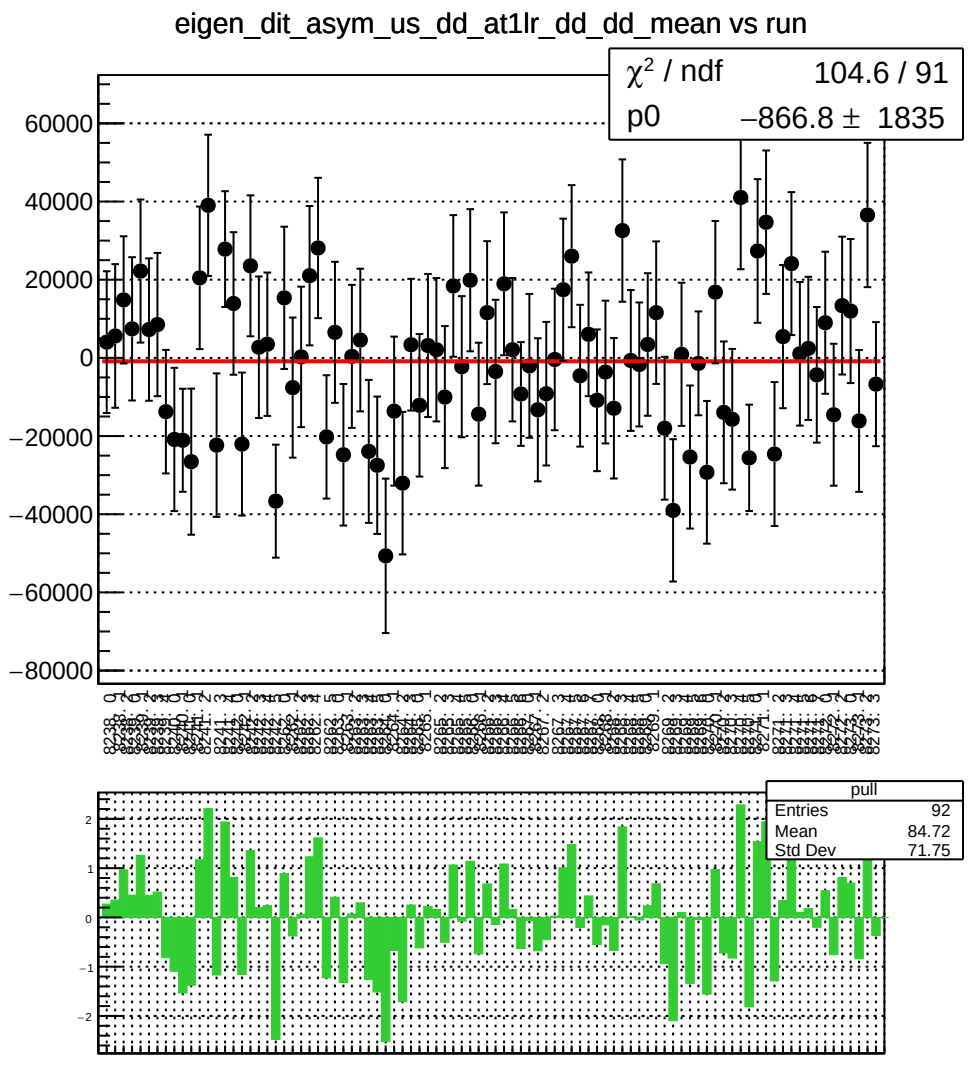

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 104.6 / 91
p0 −866.8 ± 1835
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 84.72
Std Dev 71.75
2
1
0
−1
−2

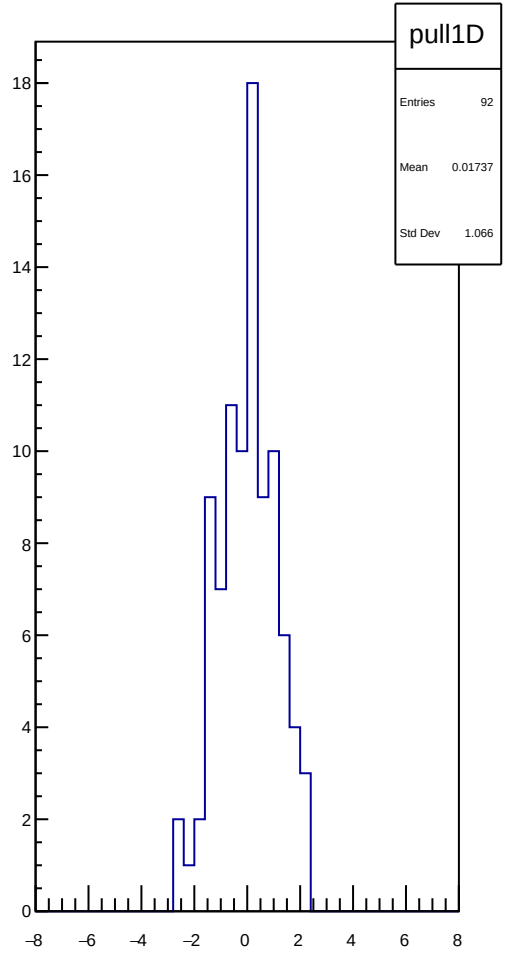

pull1D
Entries 92
Mean 0.01737
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

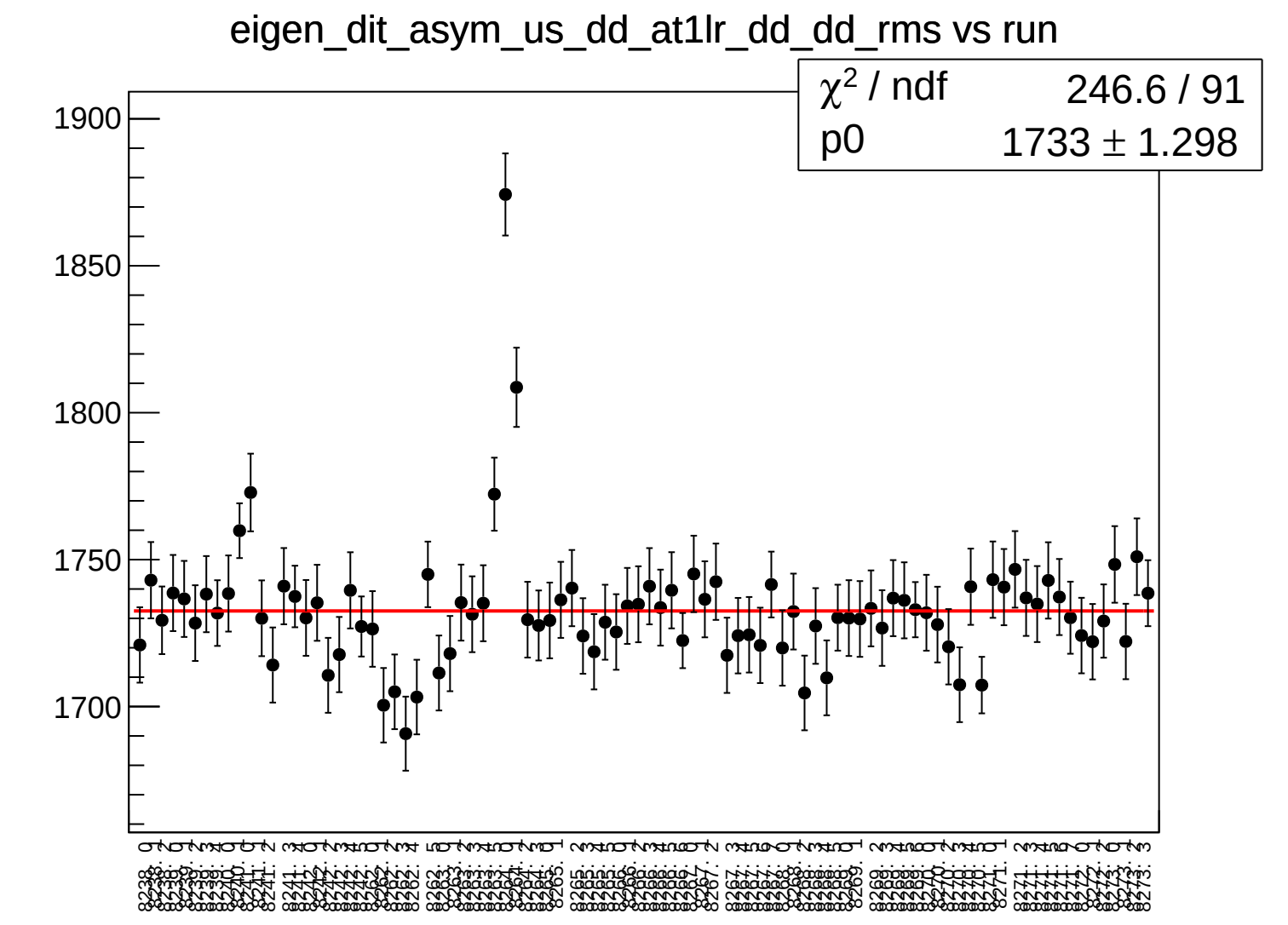

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 246.6 / 91
p0 1733 ± 1.298
1900
1850
1800
1750
1700

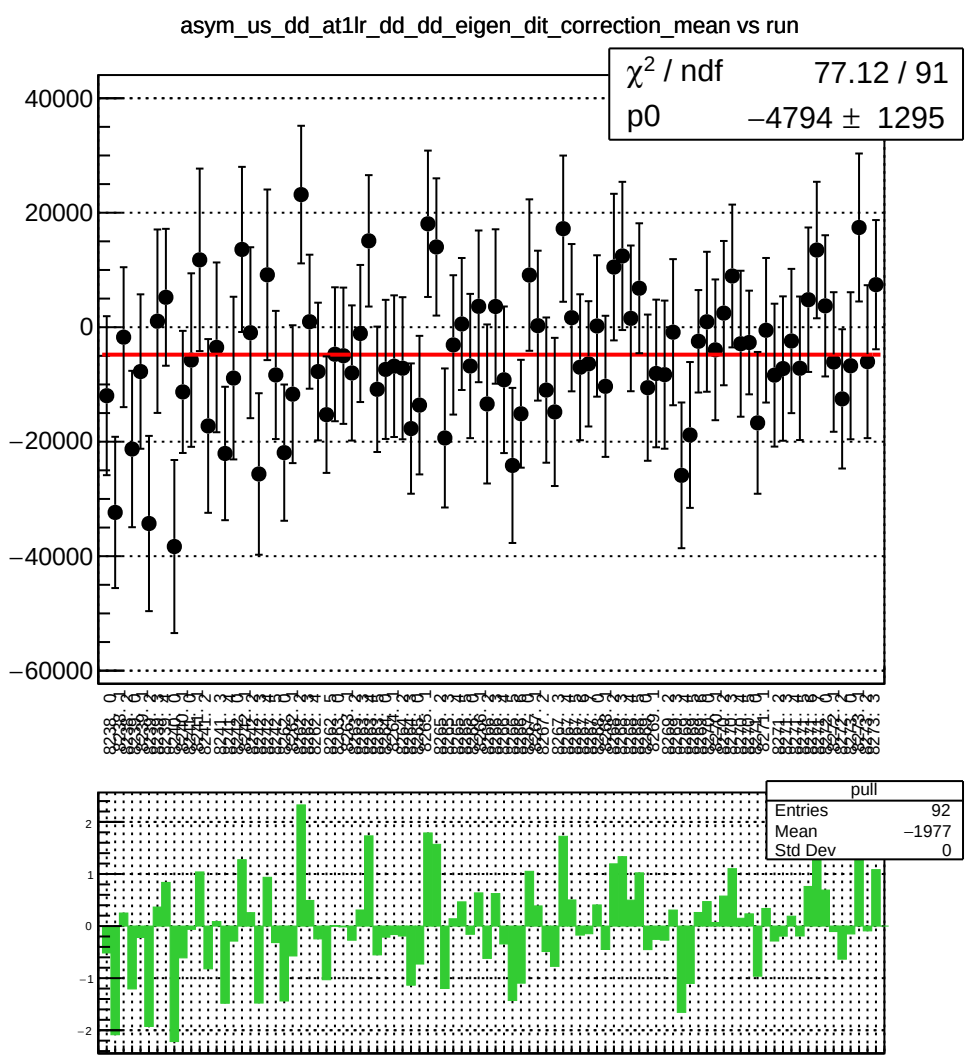

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 77.12 / 91
p0 −4794 ± 1295
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1977
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.003009
Std Dev 0.9156
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

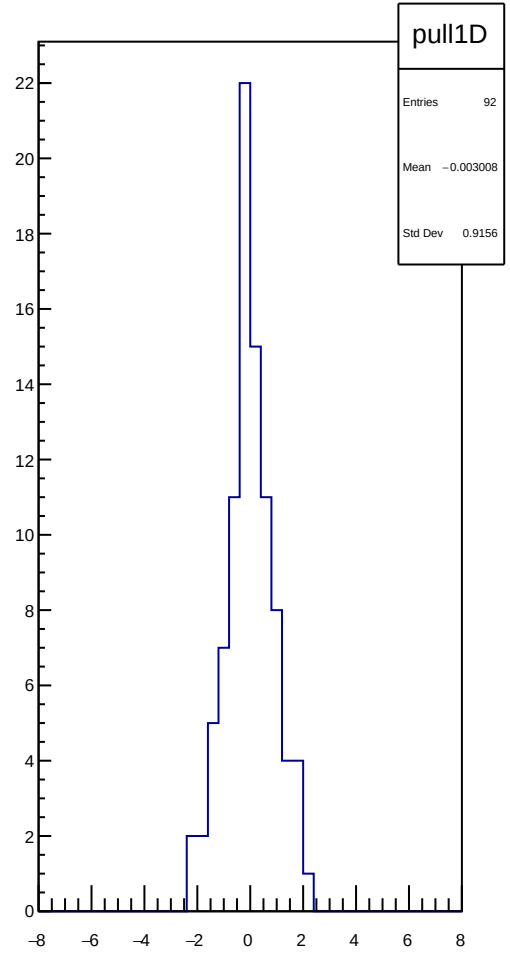

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 9537 / 91
p0 1219 ± 0.9158
1500
1400
1300
1200
1100

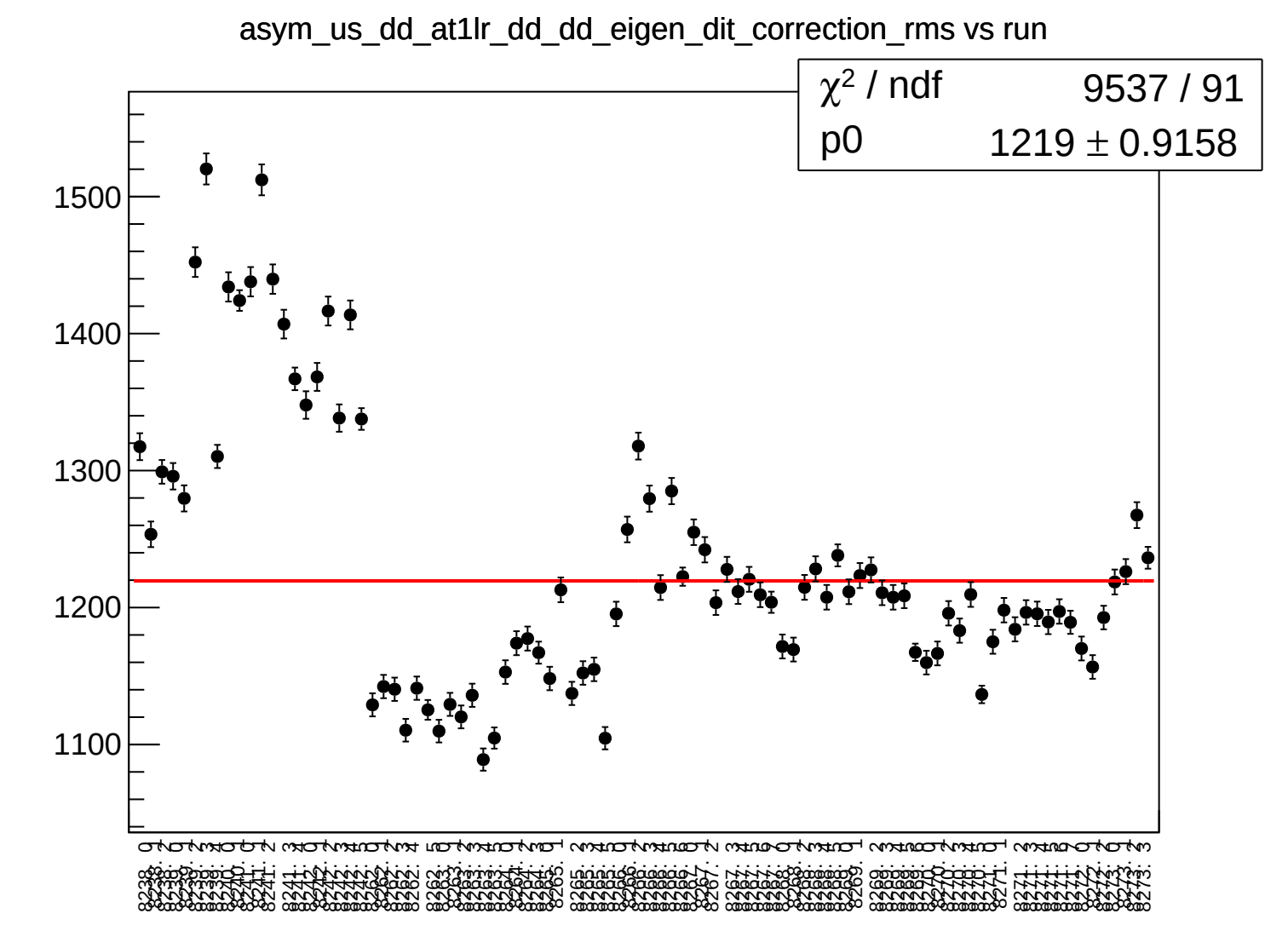

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 104.6 / 91
p0 −866.8 ± 1835
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 84.72
Std Dev 71.75
2
1
0
−1
−2

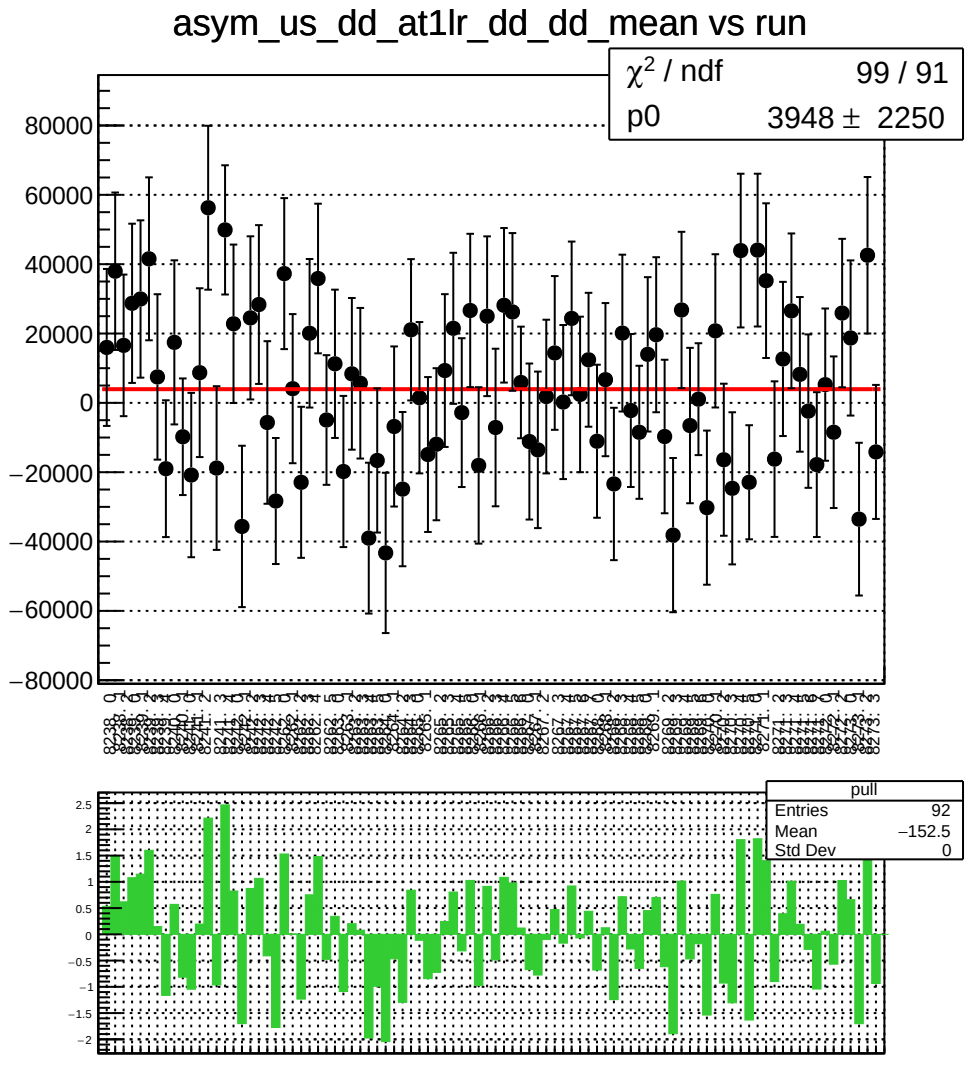

pull1D
Entries 92
Mean 0.01737
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

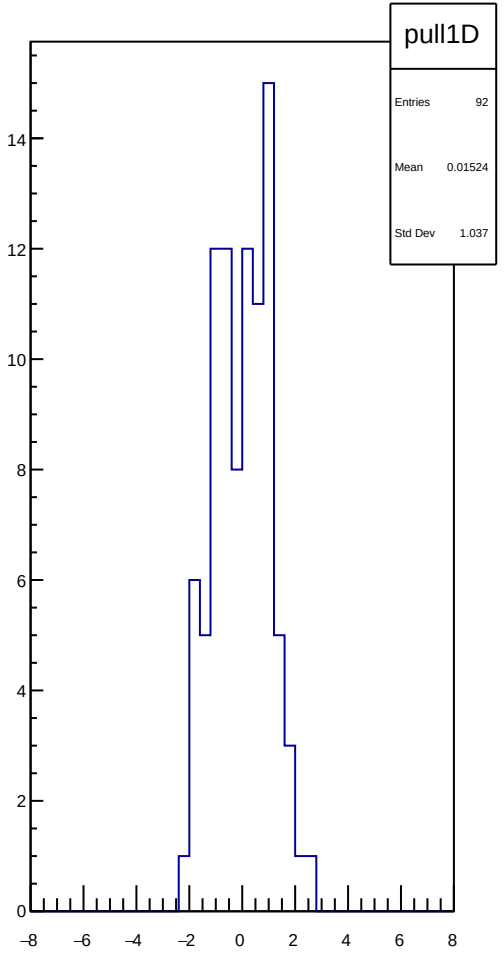

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 246.6 / 91
p0 1733 ± 1.298
1900
1850
1800
1750
1700

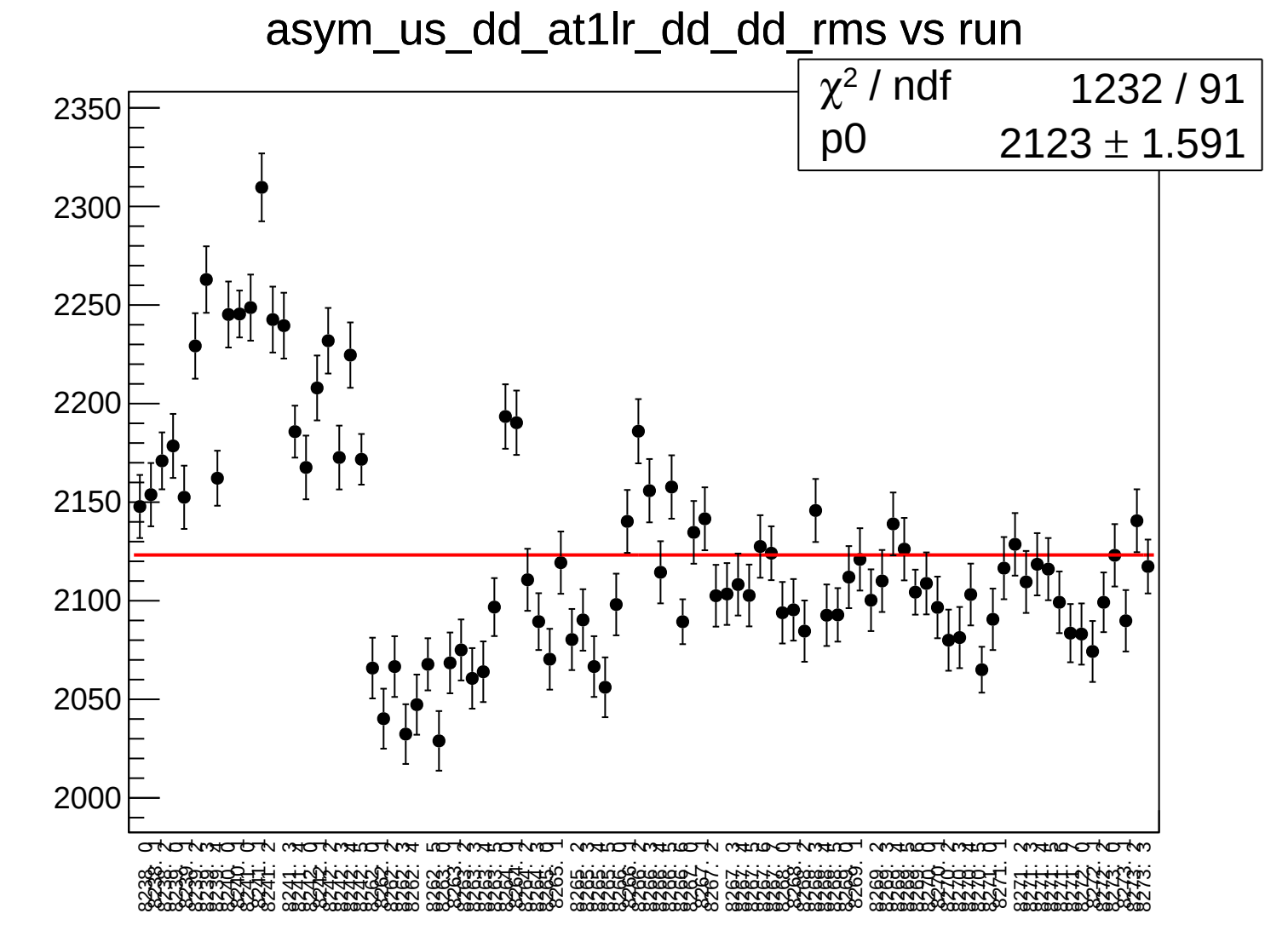

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 77.12 / 91
p0 −4794 ± 1295
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1977
Std Dev 0
2
1
0
−1
−2

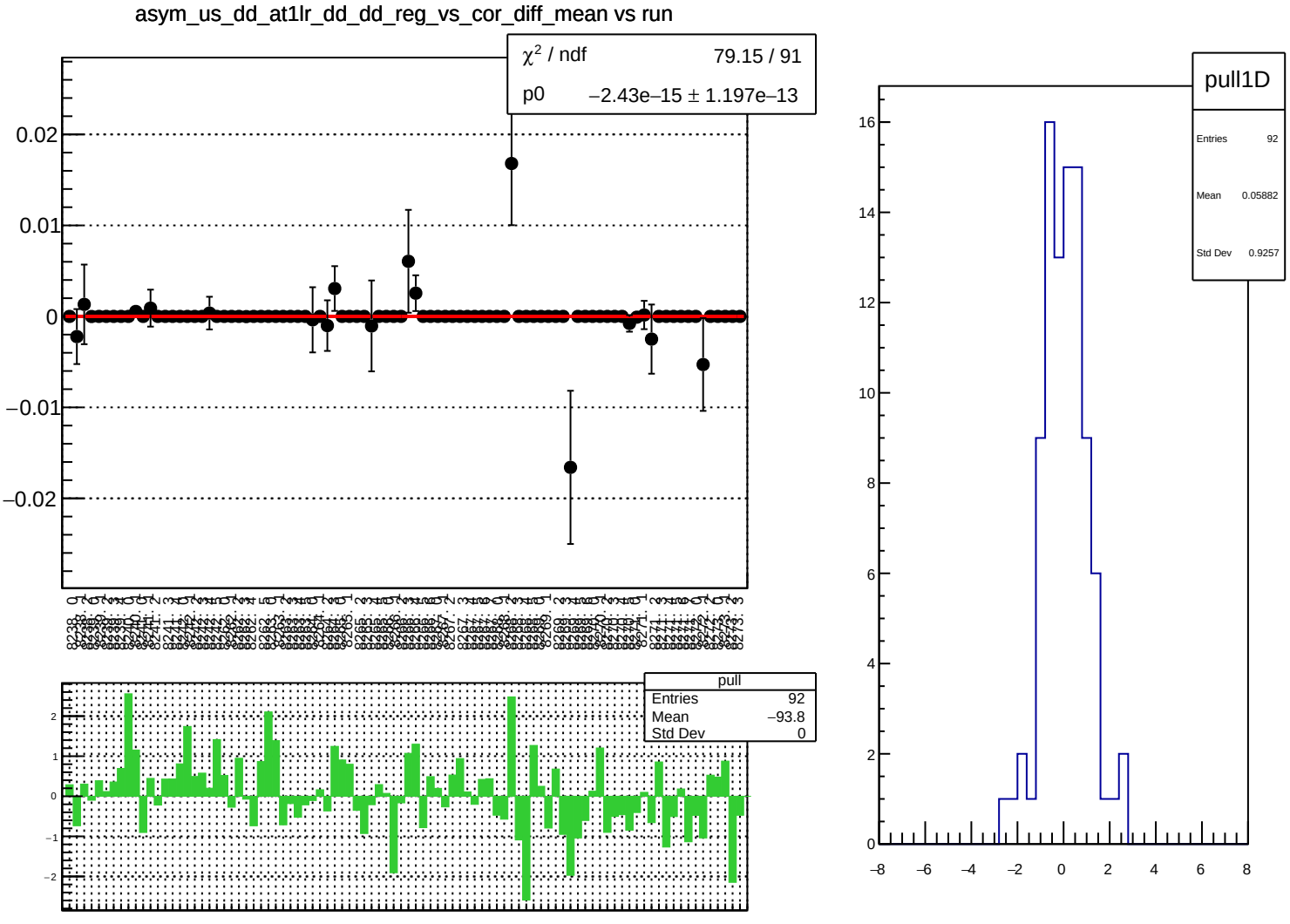

pull1D
Entries 92
Mean −0.003008
Std Dev 0.9156
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

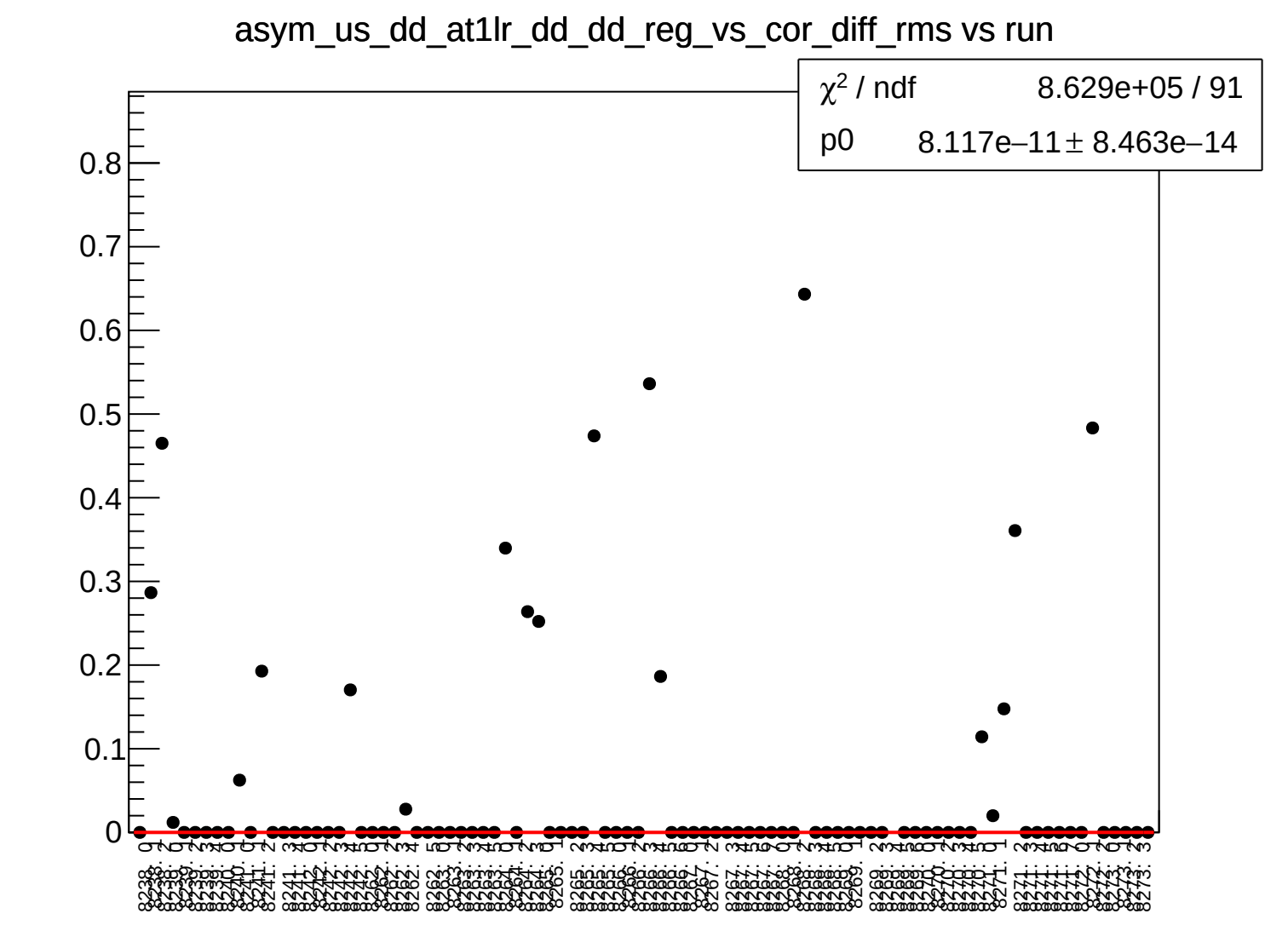

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 9537 / 91
p0 1219 ± 0.9158
1500
1400
1300
1200
1100

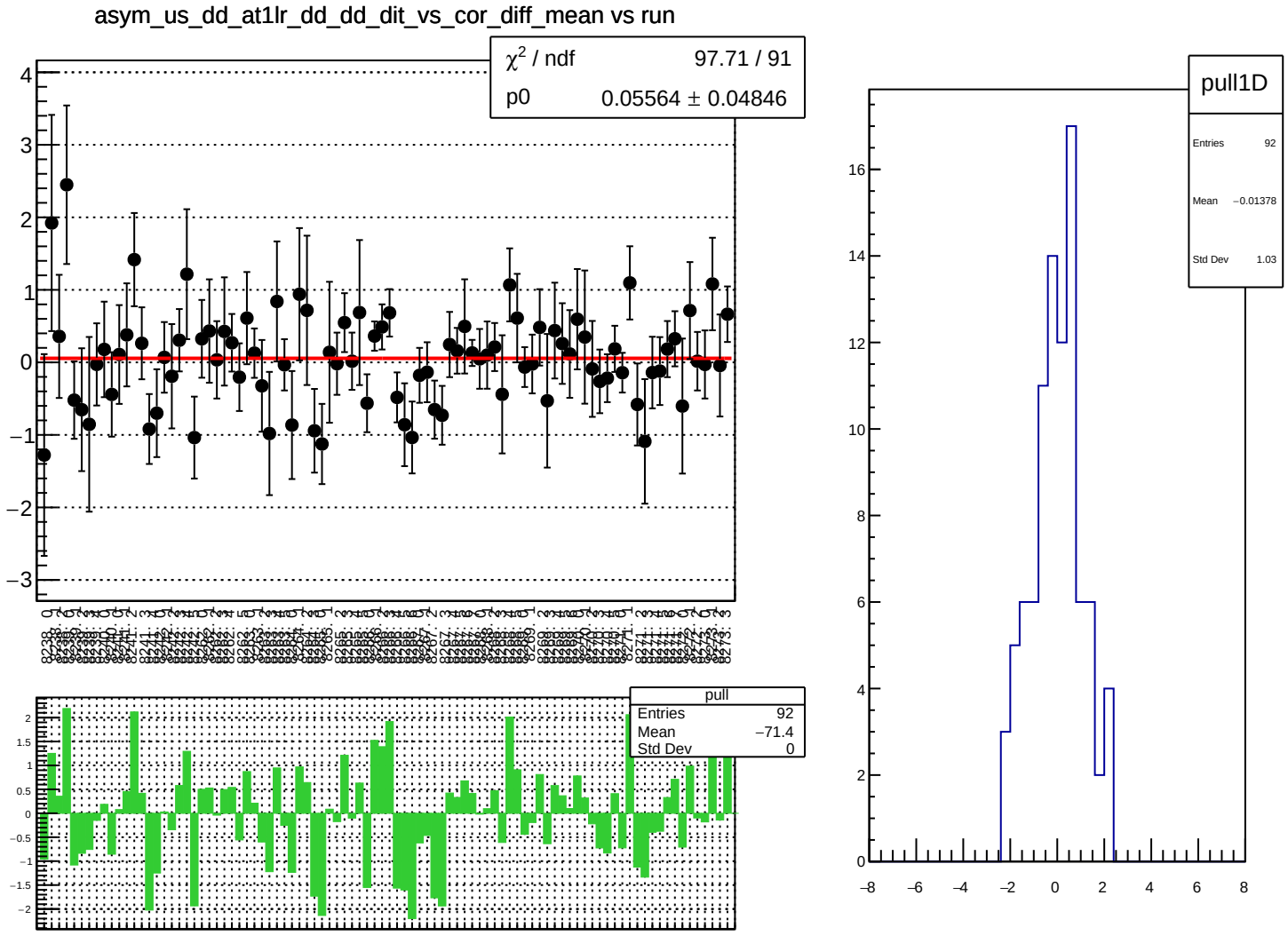

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 99 / 91
p0 3948 ± 2250
pull
Entries 92
Mean −152.5
Std Dev 0

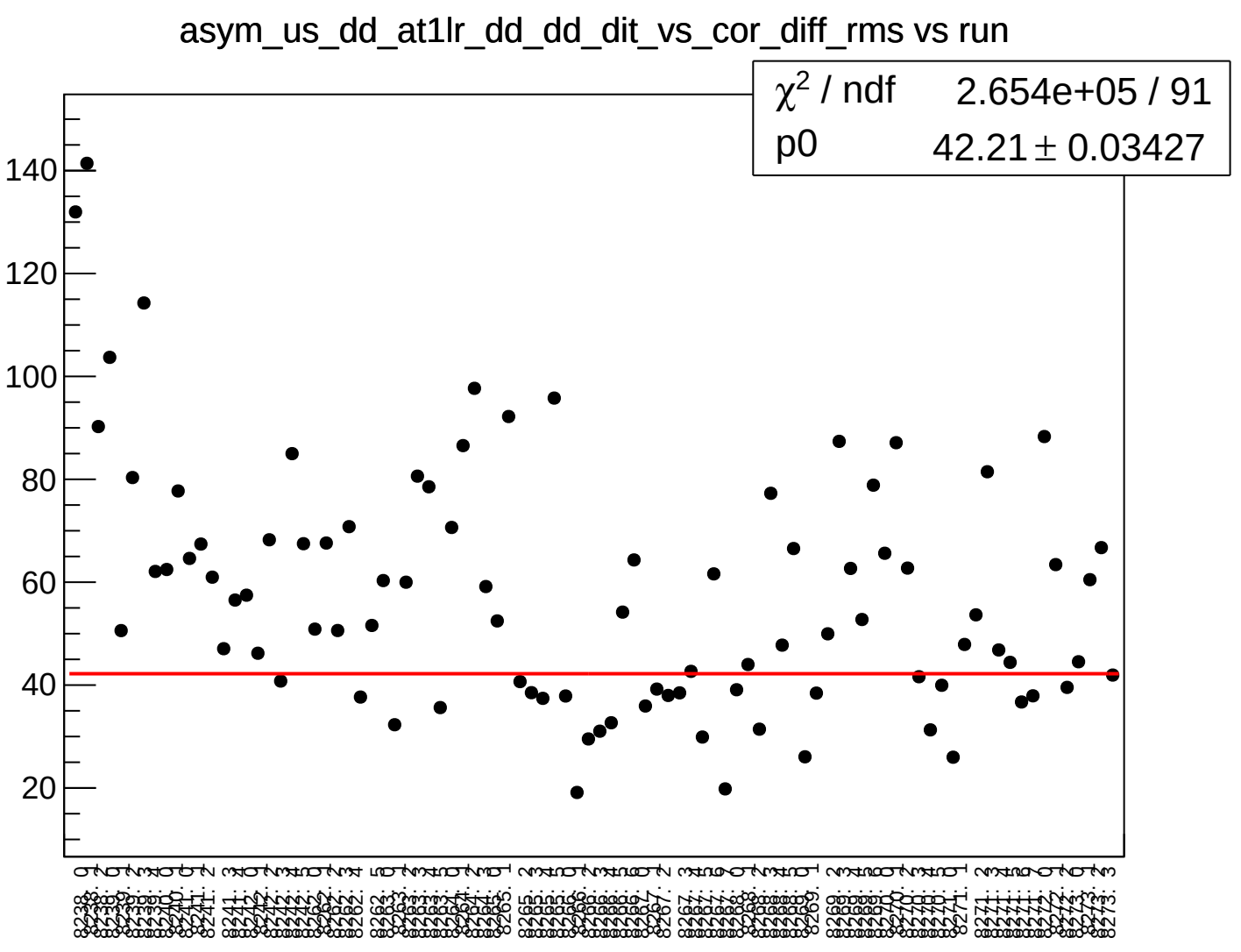

pull1D
Entries 92
Mean 0.01524
Std Dev 1.037

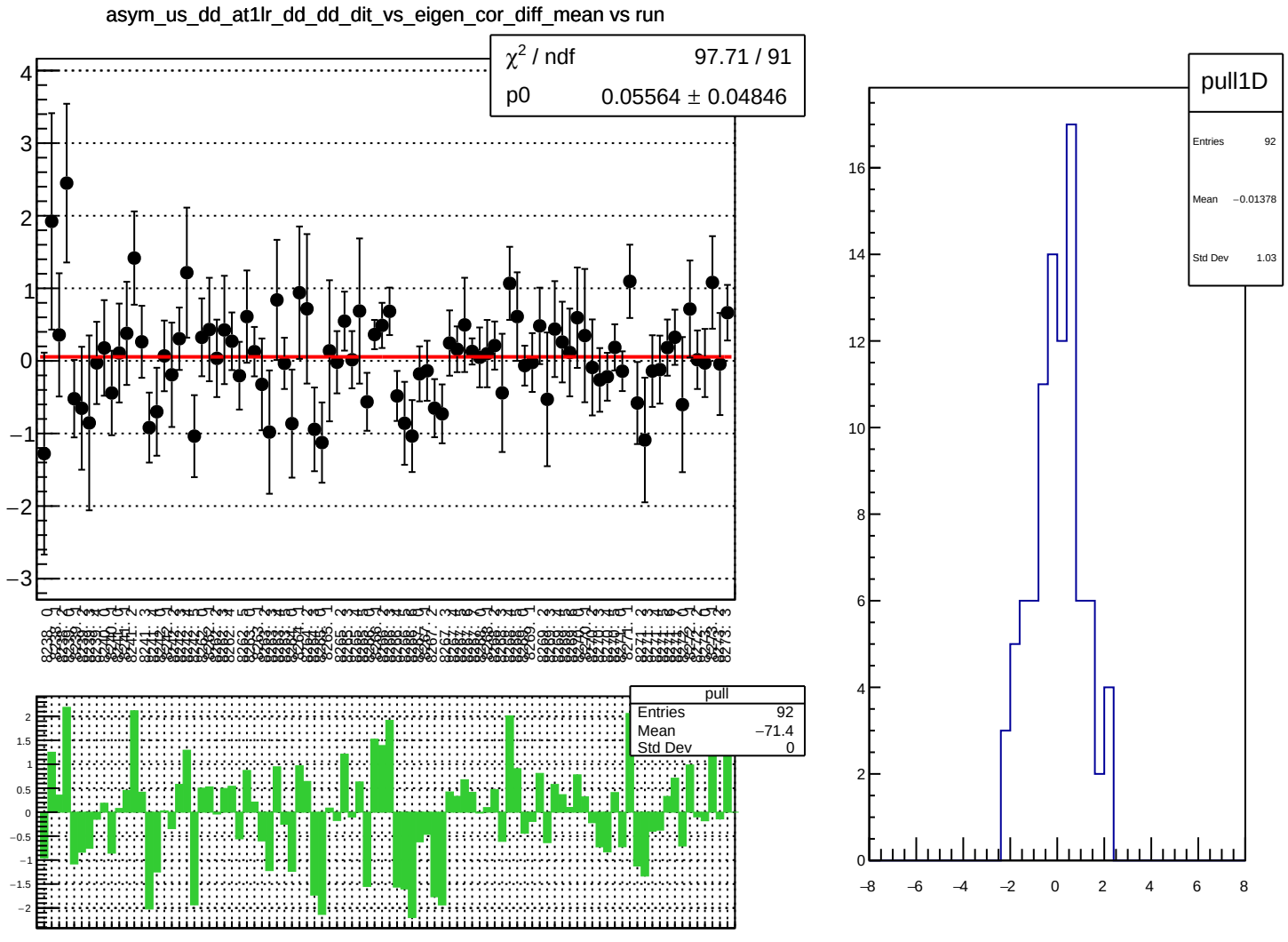

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1232 / 91
p0 2123 ± 1.591
2350
2300
2250
2200
2150
2100
2050
2000

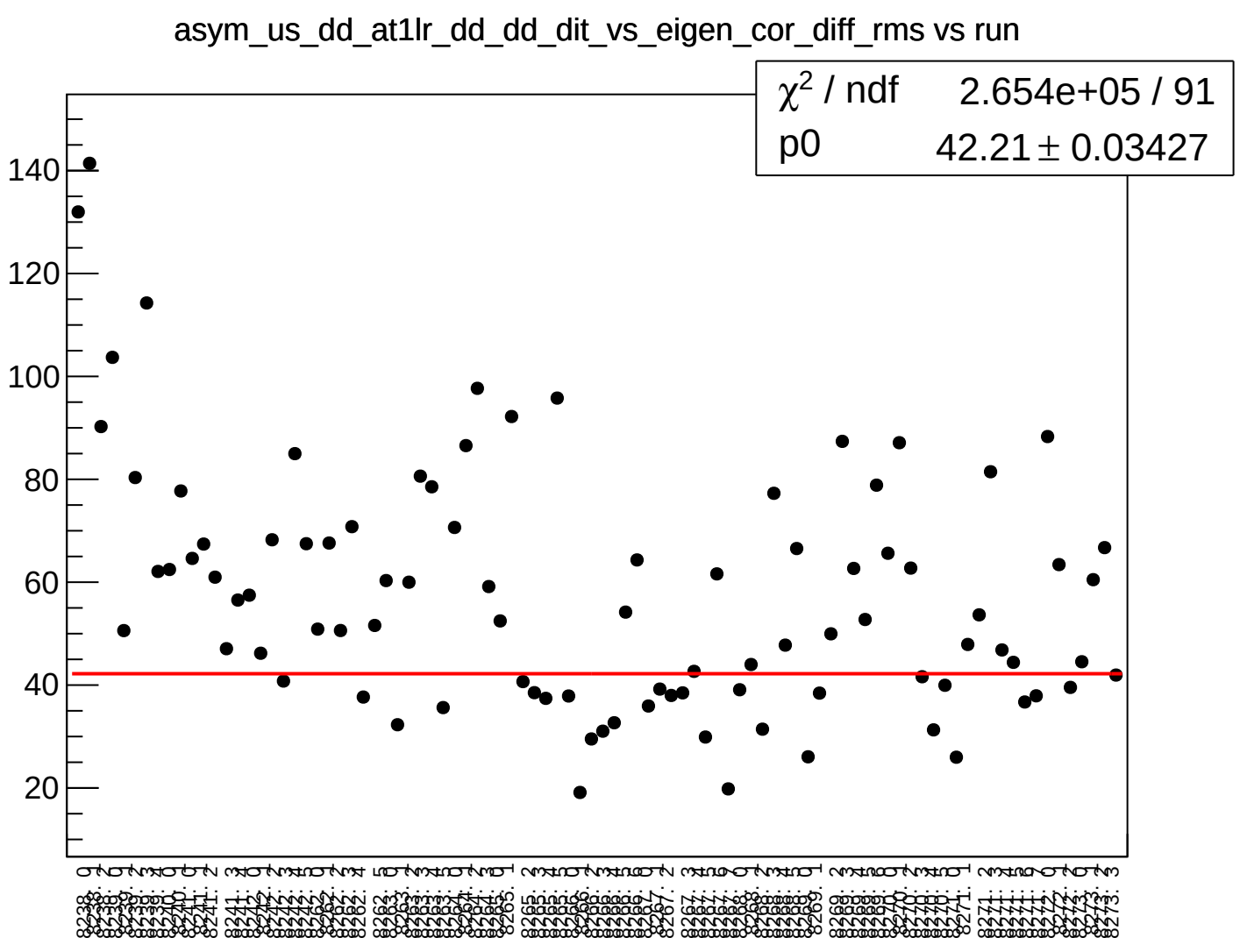

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.15 / 91
p0 −2.43e−15 ± 1.197e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean −93.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.05882
Std Dev 0.9257
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

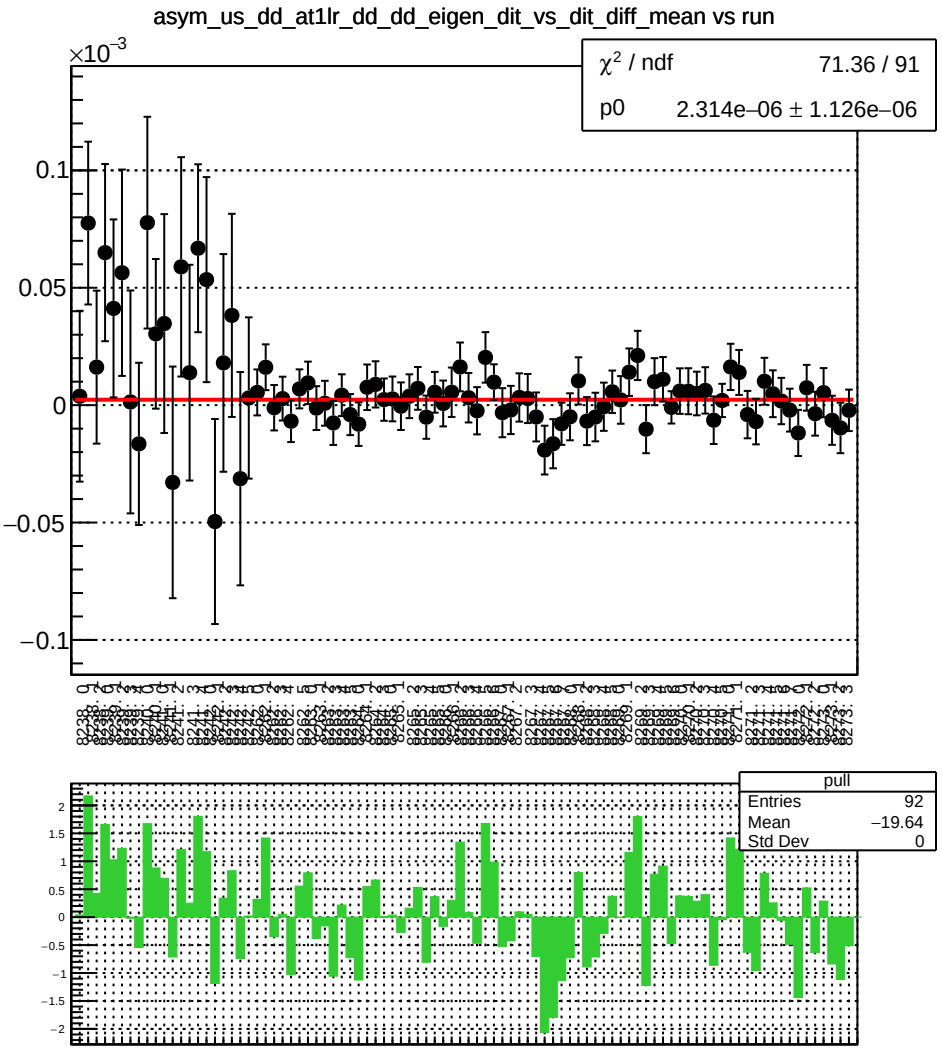

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.629e+05 / 91
p0 8.117e−11 ± 8.463e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

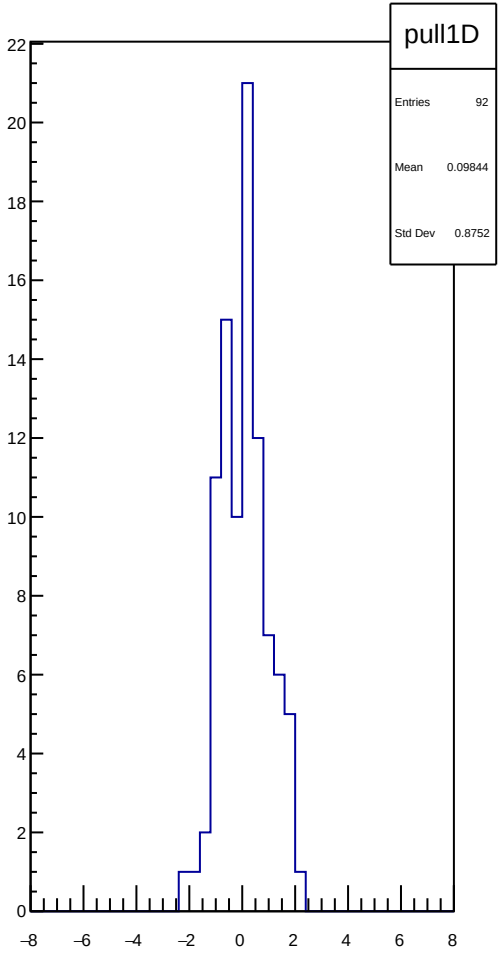

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.71 / 91
p0 0.05564 ± 0.04846
pull
Entries 92
Mean −71.4
Std Dev 0
pull1D
Entries 92
Mean −0.01378
Std Dev 1.03

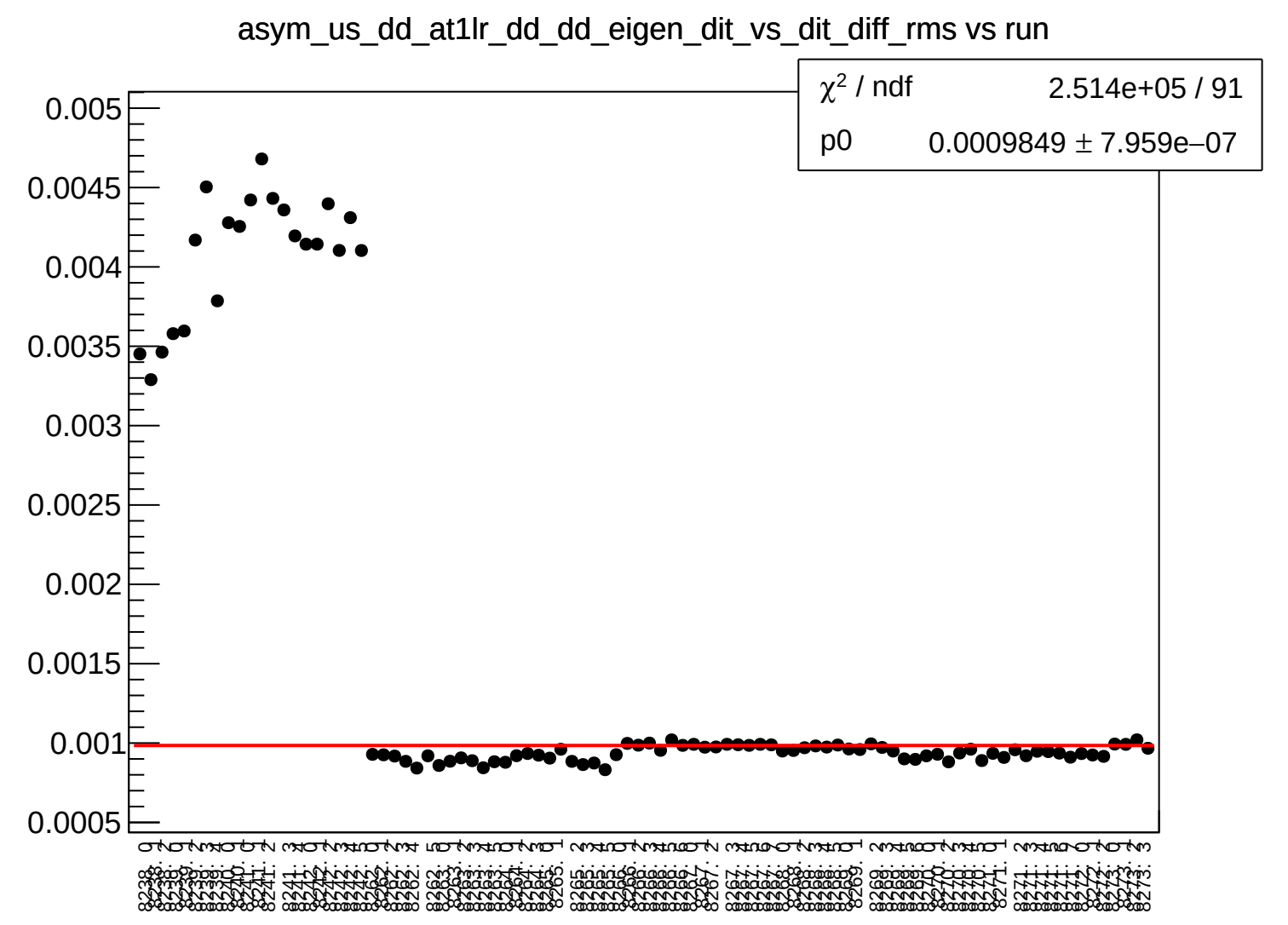

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.654e+05 / 91
p0 42.21 ± 0.03427
140
120
100
80
60
40
20

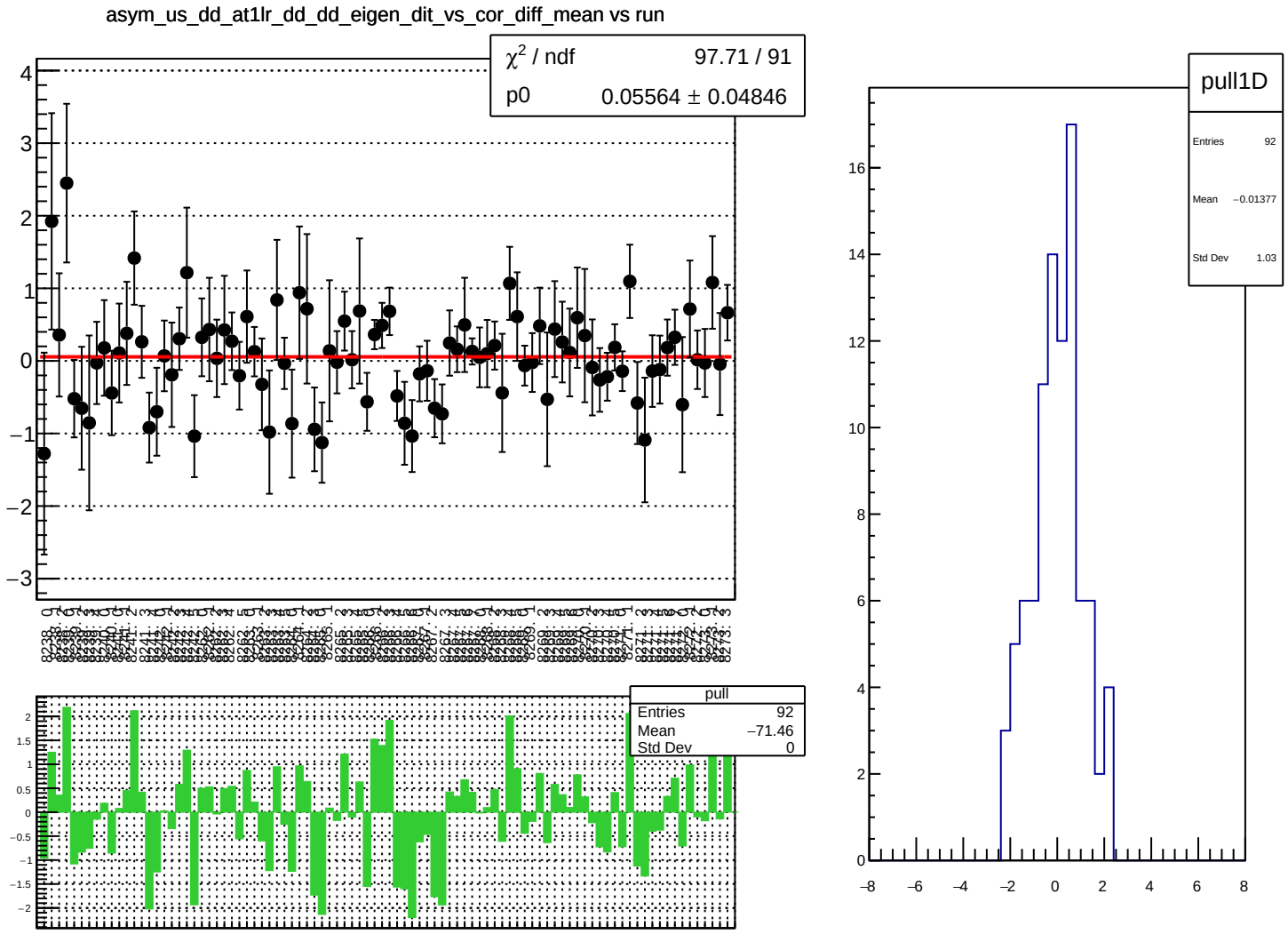

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.71 / 91
p0 0.05564 ± 0.04846
pull
Entries 92
Mean −71.4
Std Dev 0
pull1D
Entries 92
Mean −0.01378
Std Dev 1.03

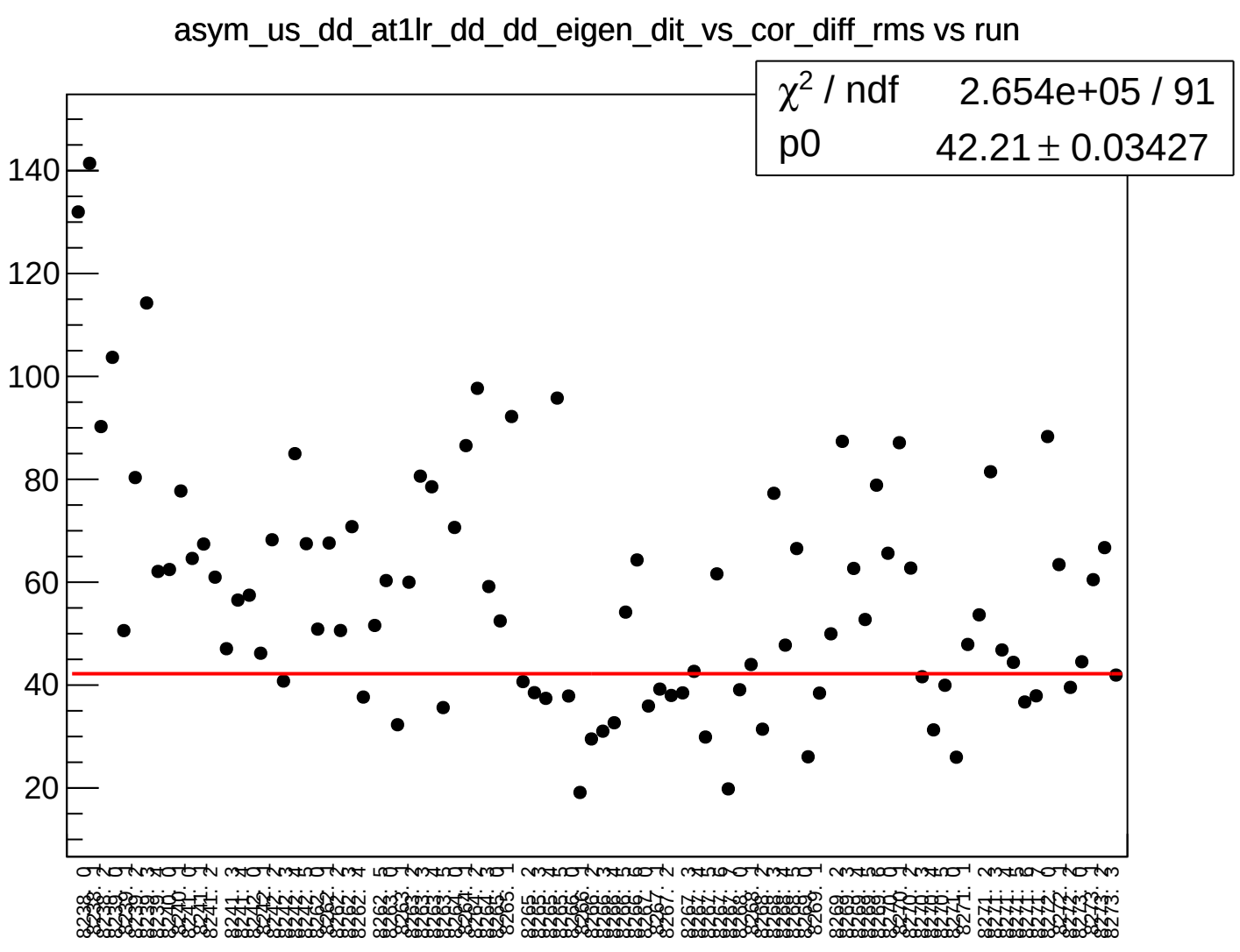

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.654e+05 / 91
p0 42.21 ± 0.03427
140
120
100
80
60
40
20

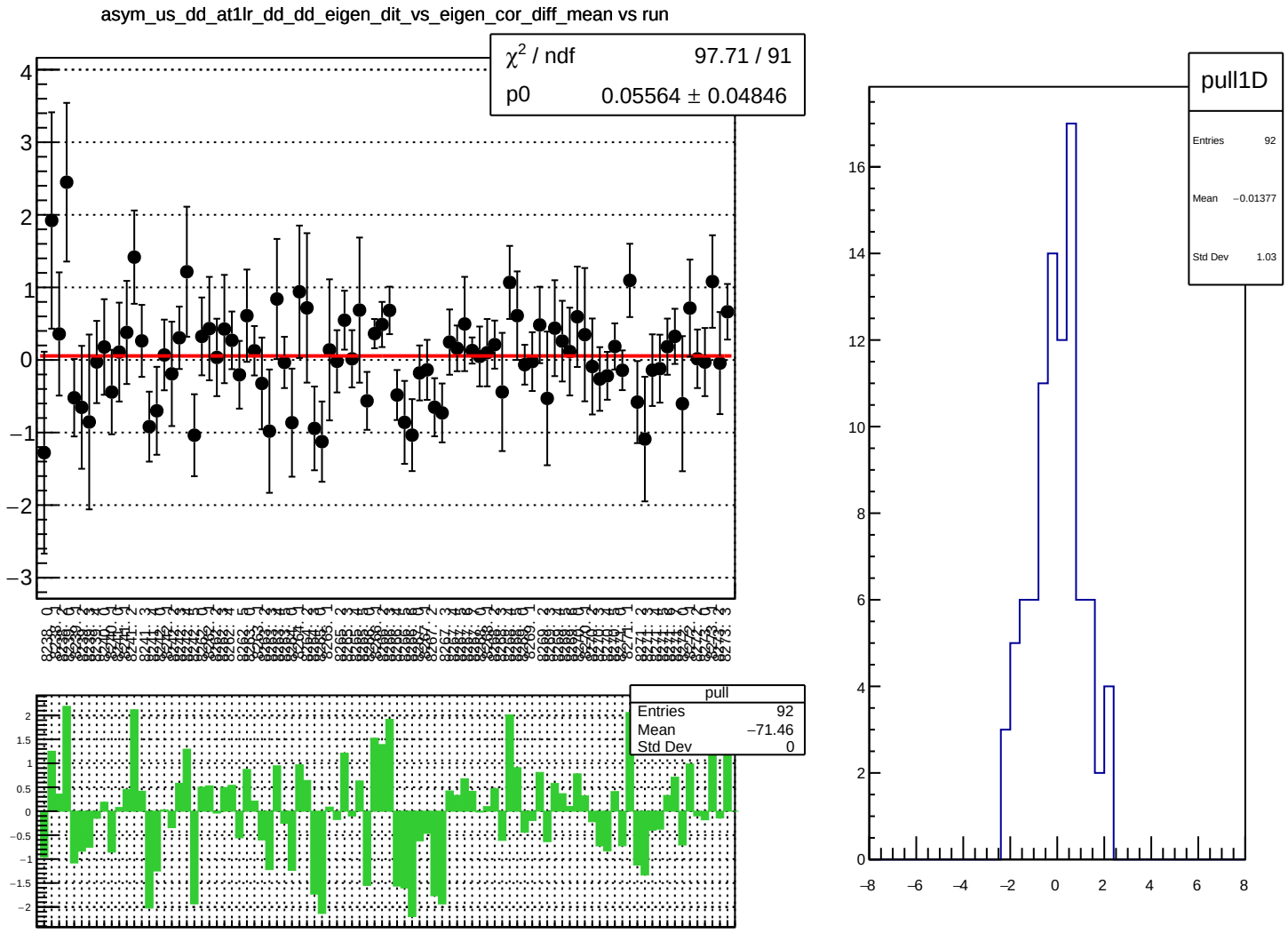

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.36 / 91
p0 2.314e−06 ± 1.126e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean −19.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

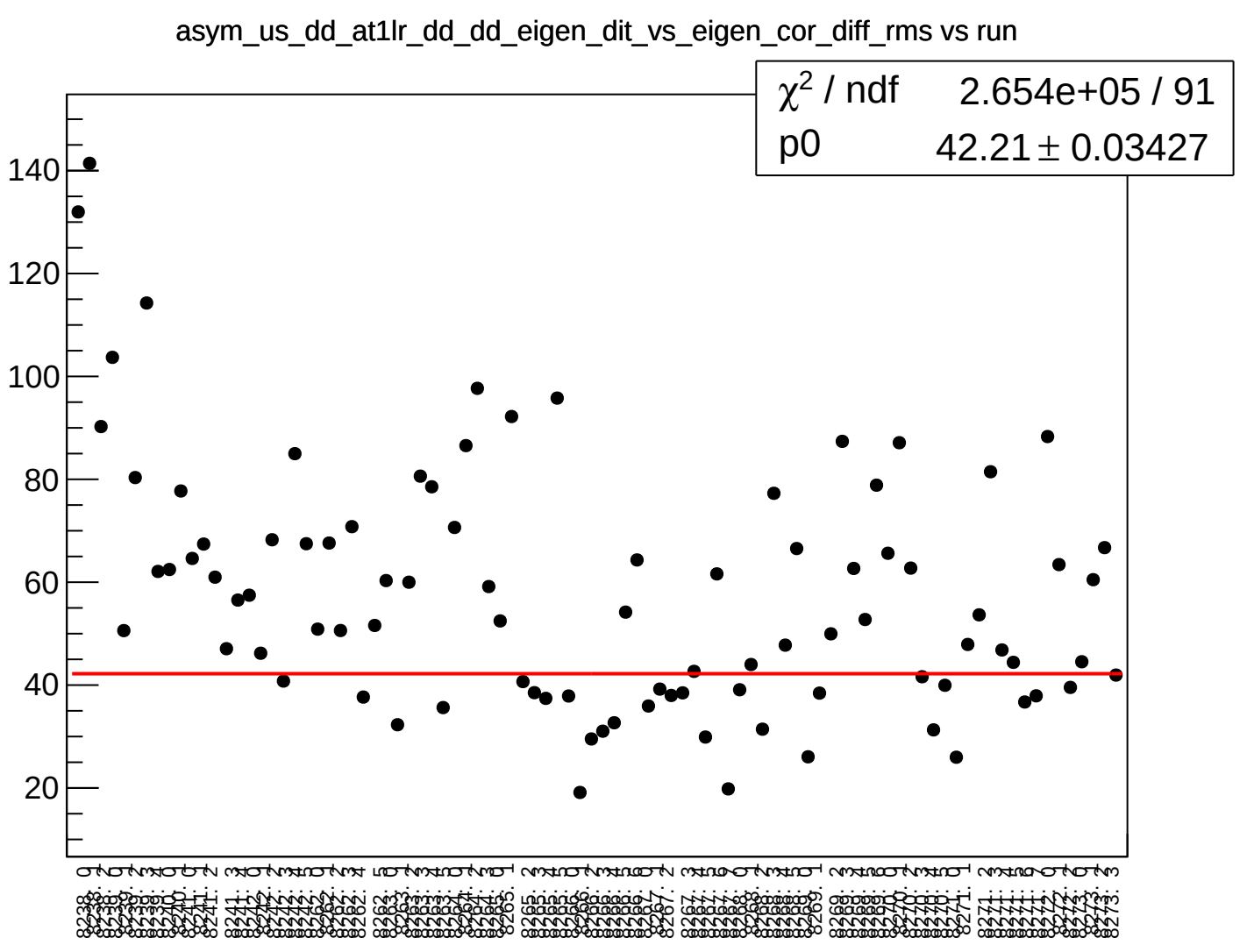

pull1D
Entries 92
Mean 0.09844
Std Dev 0.8752
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

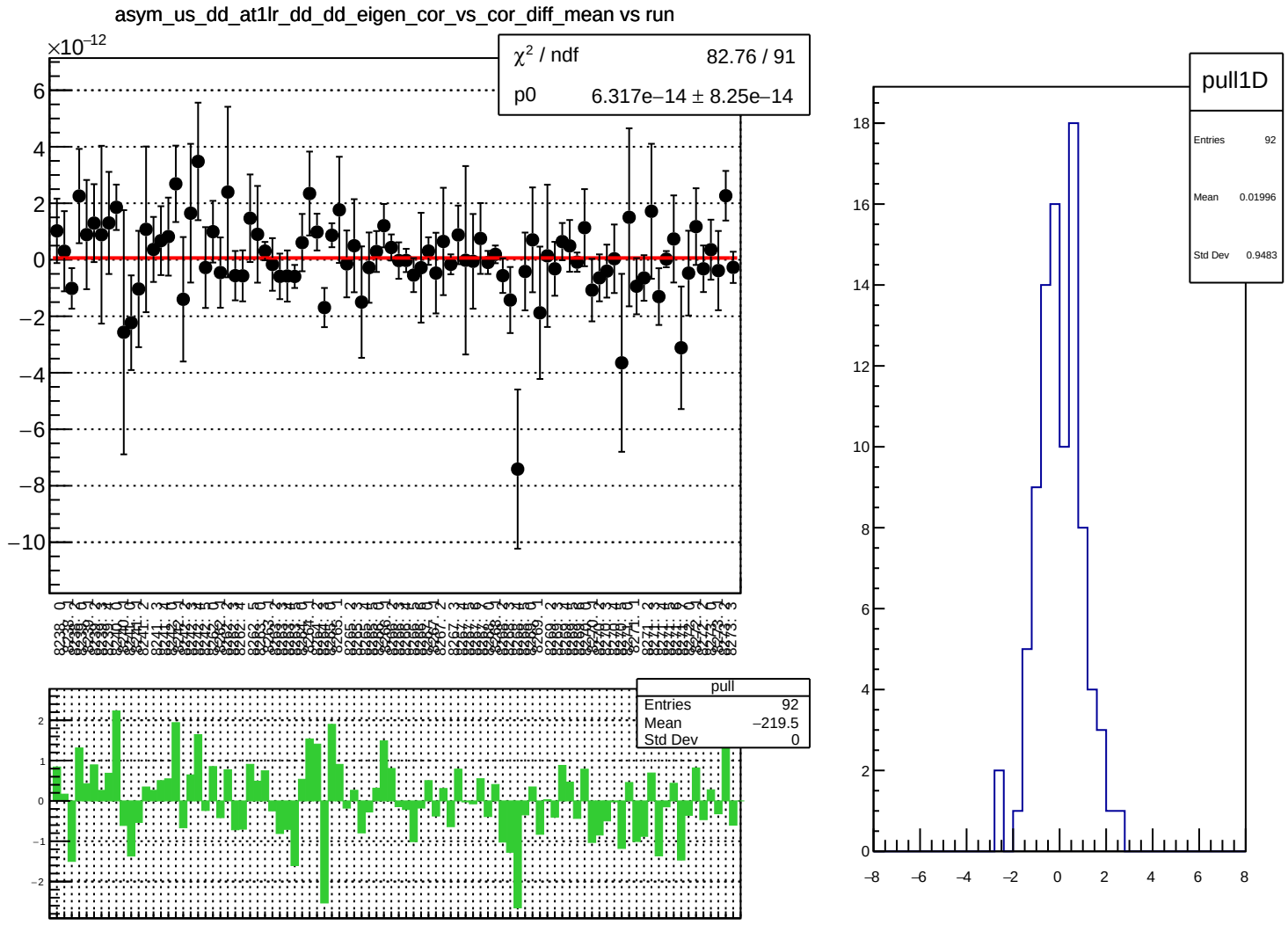

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.514e+05 / 91
p0 0.0009849 ± 7.959e−07
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

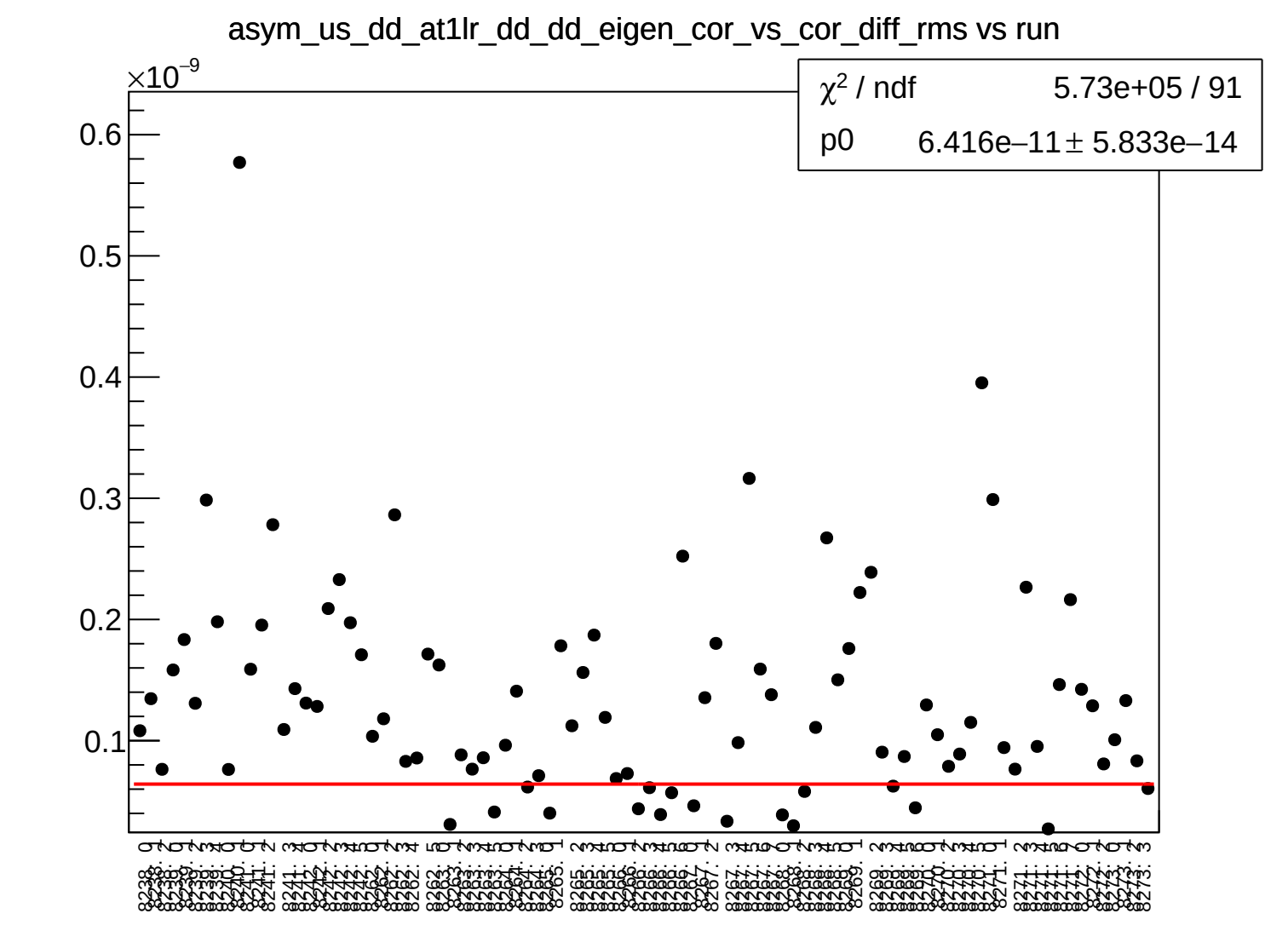

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.71 / 91
p0 0.05564 ± 0.04846
pull
Entries 92
Mean −71.46
Std Dev 0
pull1D
Entries 92
Mean −0.01377
Std Dev 1.03

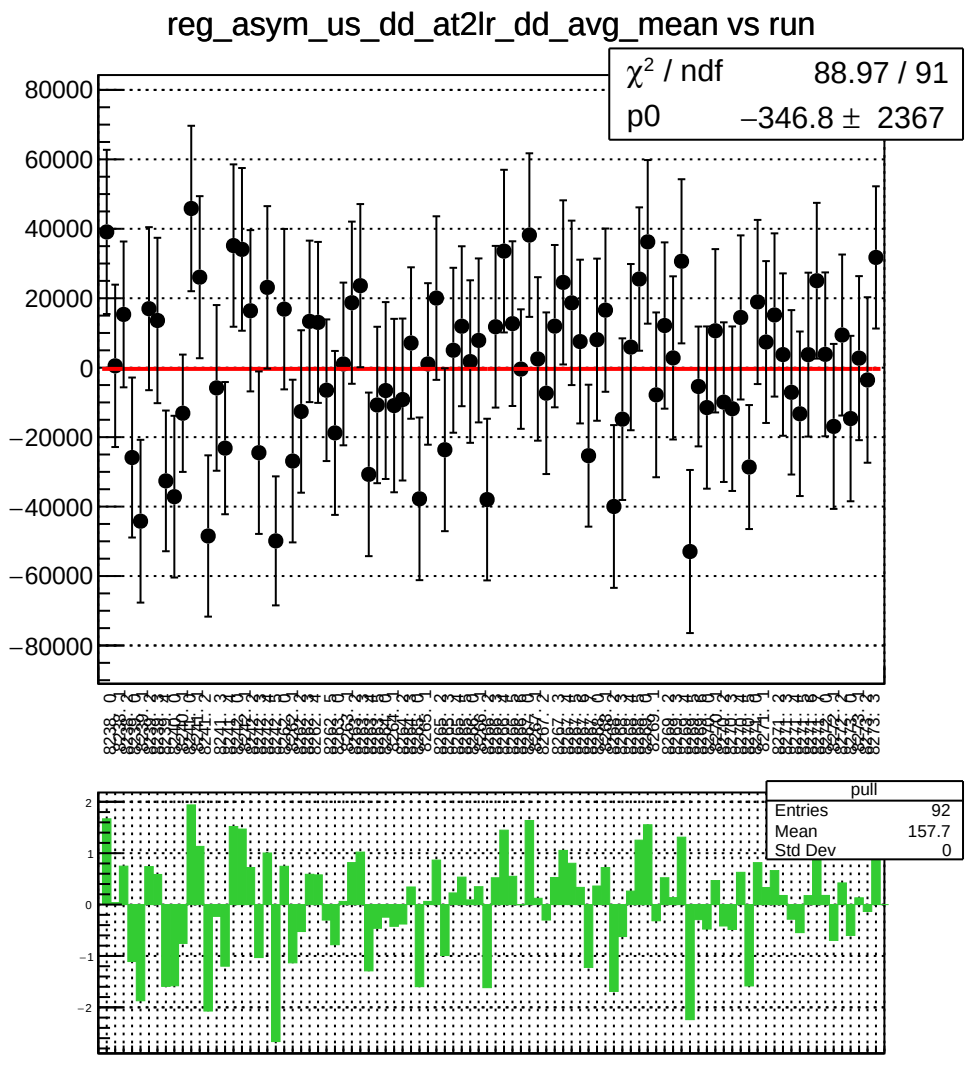

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.654e+05 / 91
p0 42.21 ± 0.03427
140
120
100
80
60
40
20

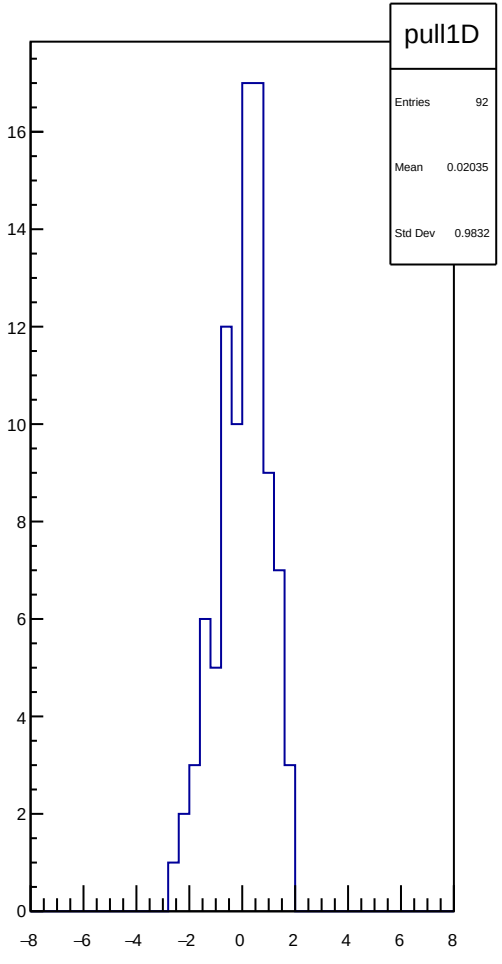

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.71 / 91
p0 0.05564 ± 0.04846
pull
Entries 92
Mean −71.46
Std Dev 0
pull1D
Entries 92
Mean −0.01377
Std Dev 1.03

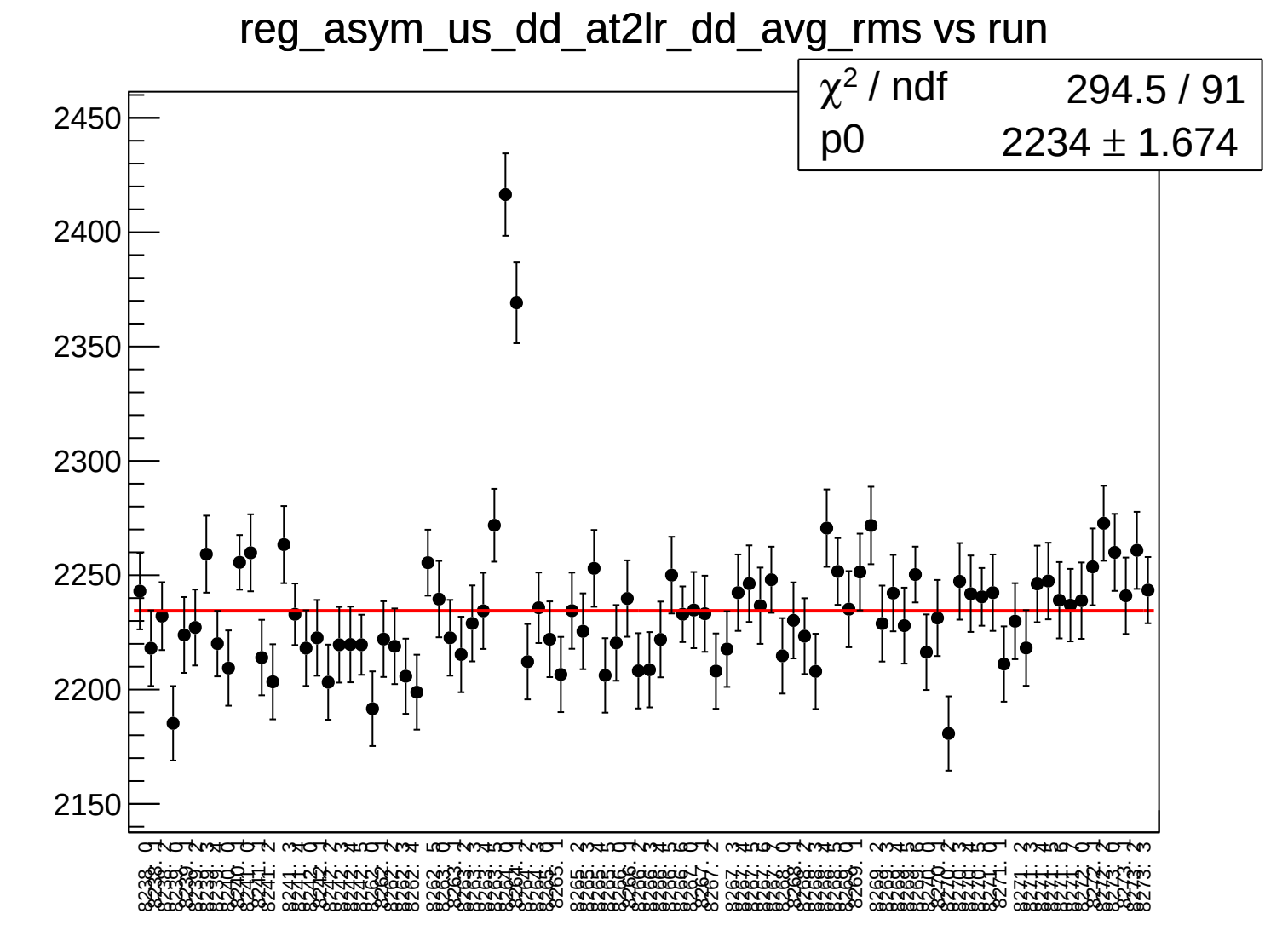

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.654e+05 / 91
p0 42.21 ± 0.03427
140
120
100
80
60
40
20

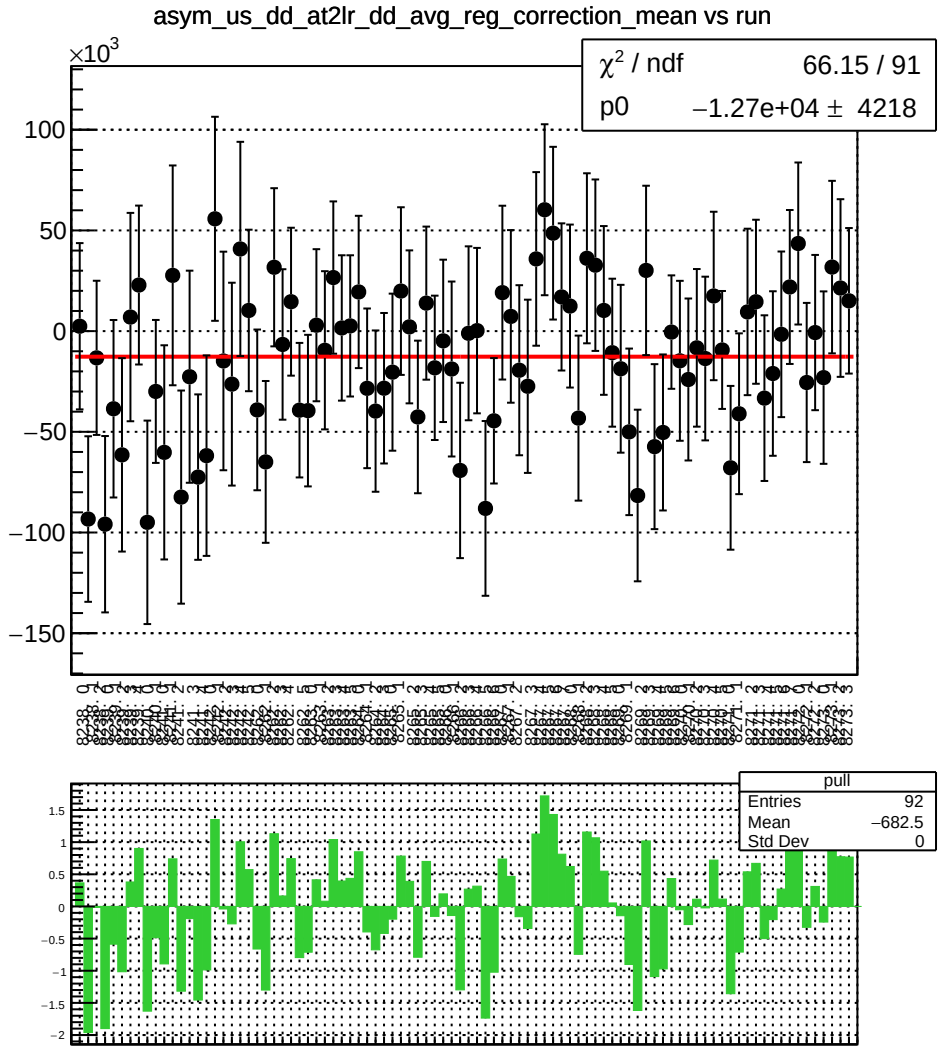

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 82.76 / 91
p0 6.317e−14 ± 8.25e−14
pull
Entries 92
Mean −219.5
Std Dev 0
pull1D
Entries 92
Mean 0.01996
Std Dev 0.9483

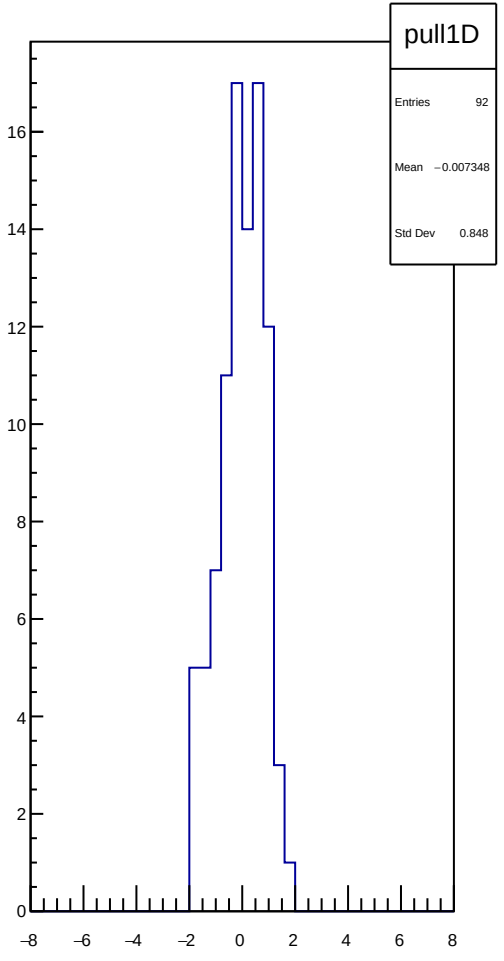

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.73e+05 / 91
p0 6.416e−11 ± 5.833e−14
0.6
0.5
0.4
0.3
0.2
0.1

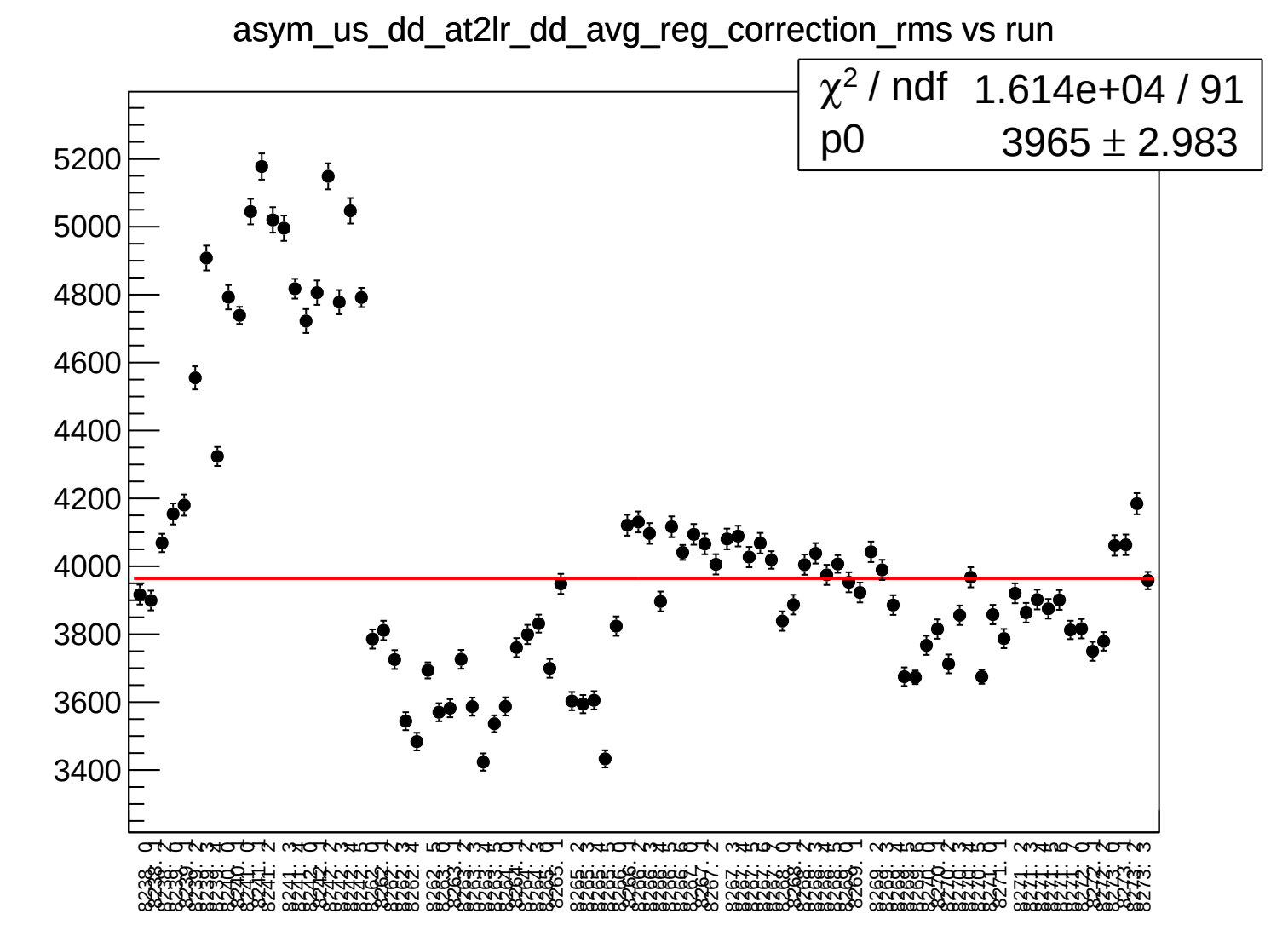

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 88.97 / 91
p0 −346.8 ± 2367
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 157.7
Std Dev 0
2
1
0
−1
−2

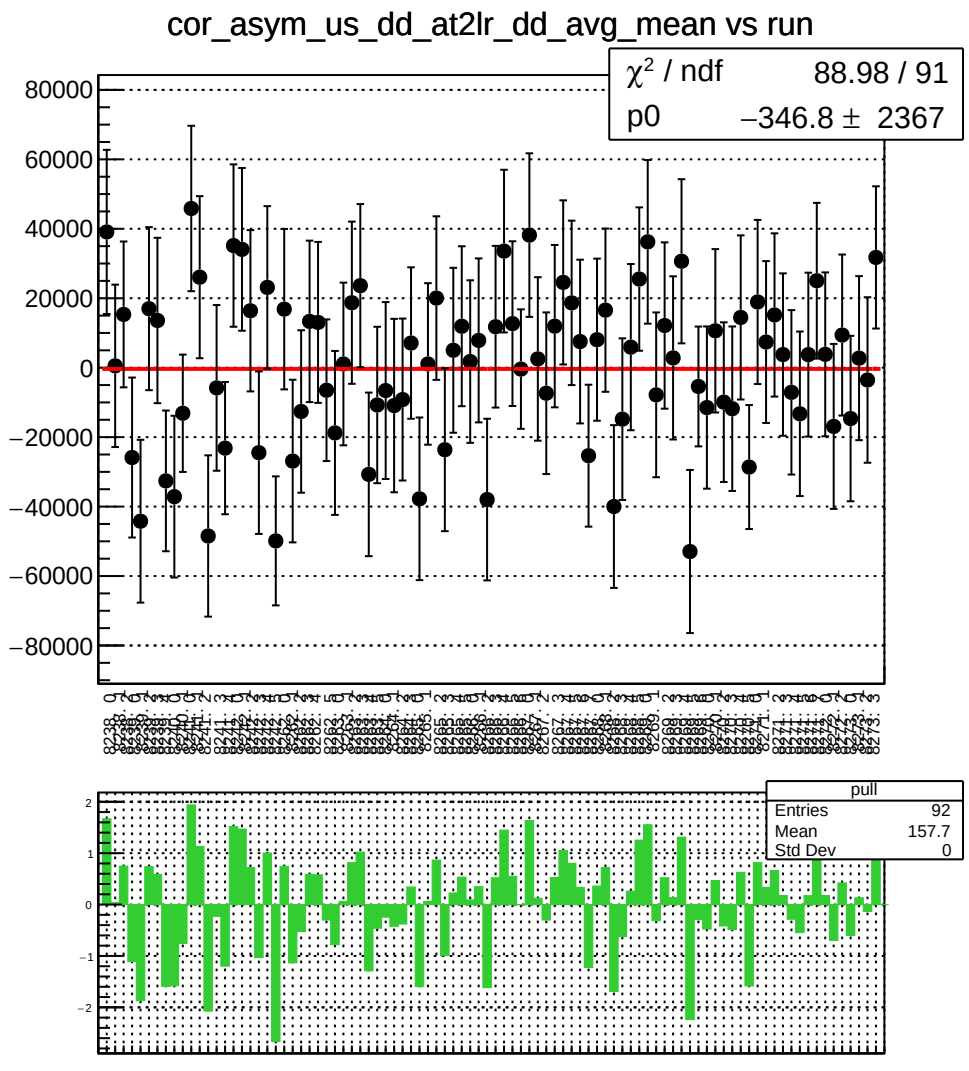

pull1D
Entries 92
Mean 0.02035
Std Dev 0.9832
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

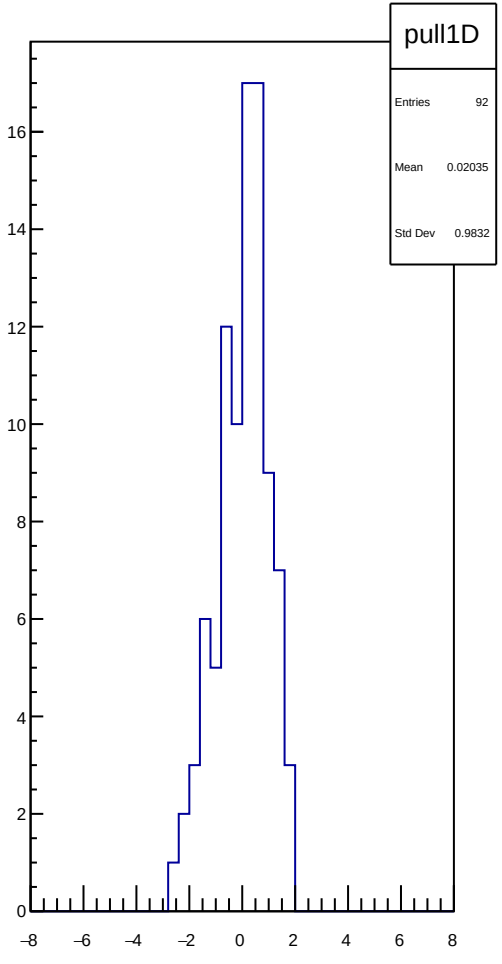

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 294.5 / 91
p0 2234 ± 1.674
2450
2400
2350
2300
2250
2200
2150

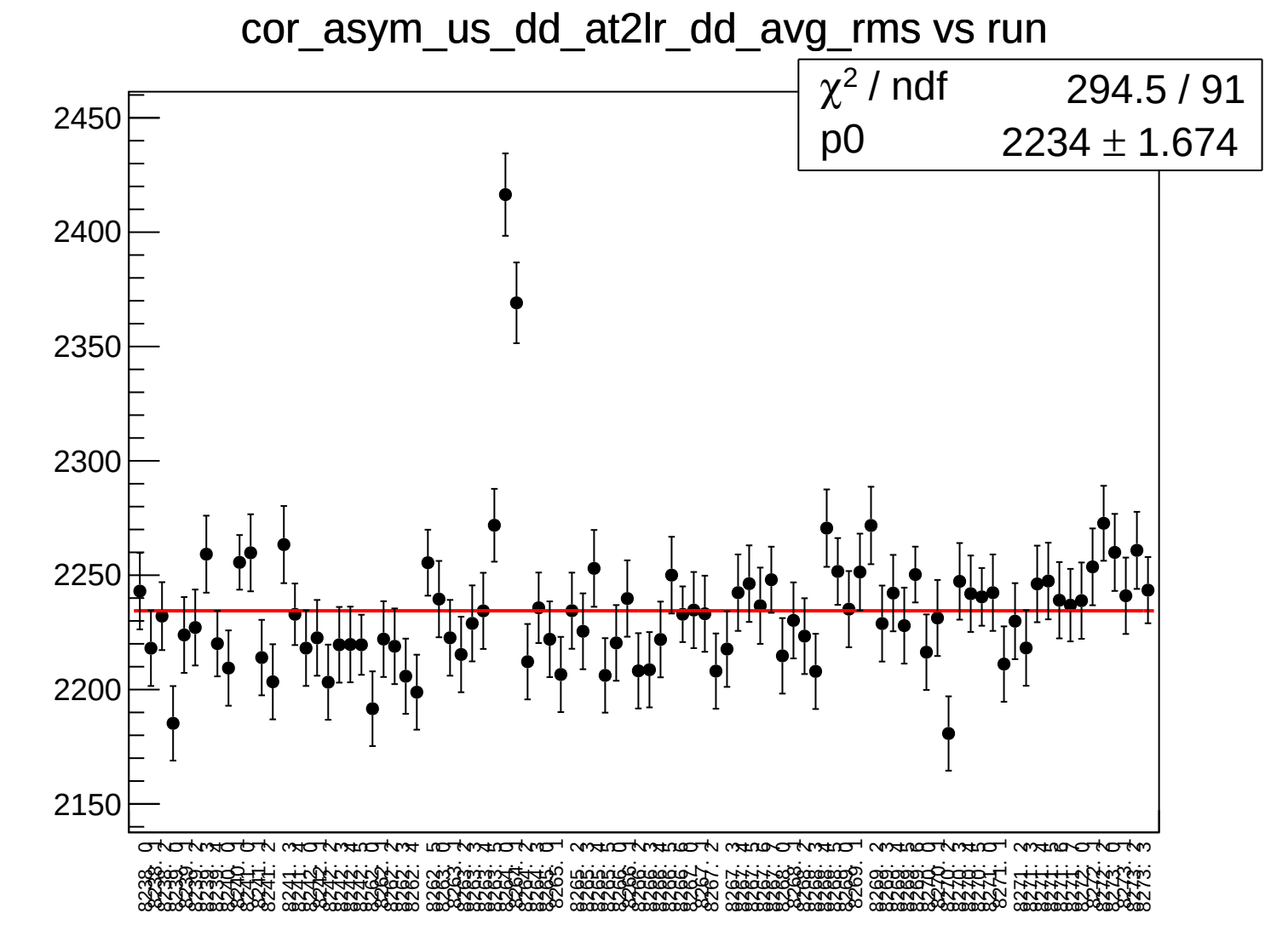

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 66.15 / 91
p0 −1.27e+04 ± 4218
100
50
0
−50
−100
−150
pull
Entries 92
Mean −682.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

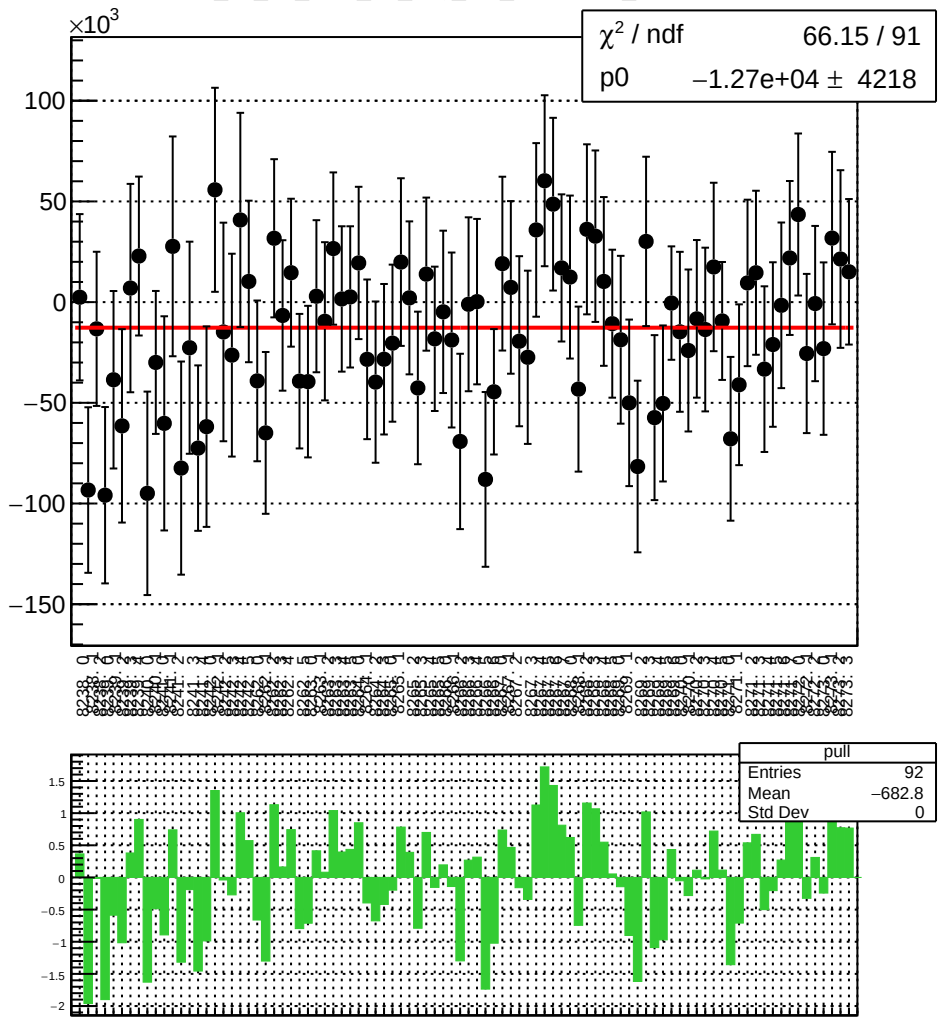

pull1D
Entries 92
Mean −0.007348
Std Dev 0.848
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

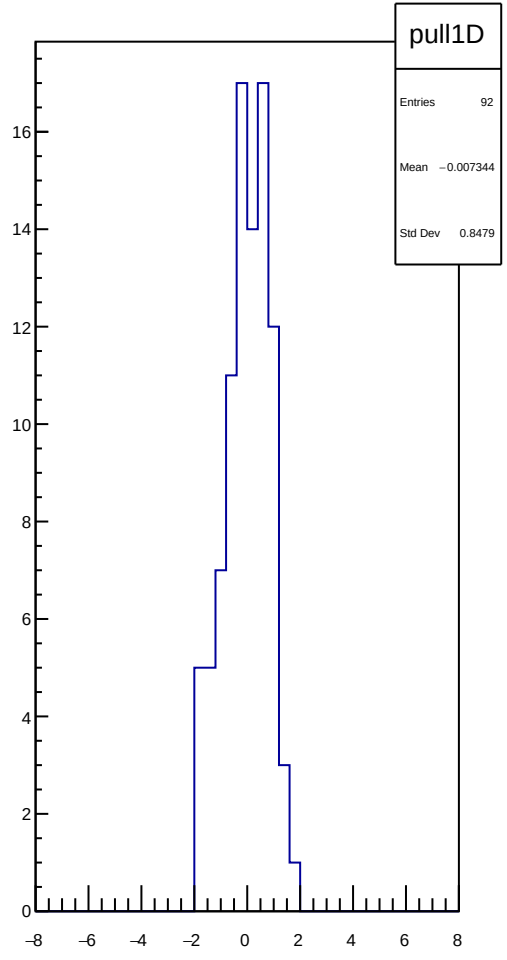

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.614e+04 / 91
p0 3965 ± 2.983
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

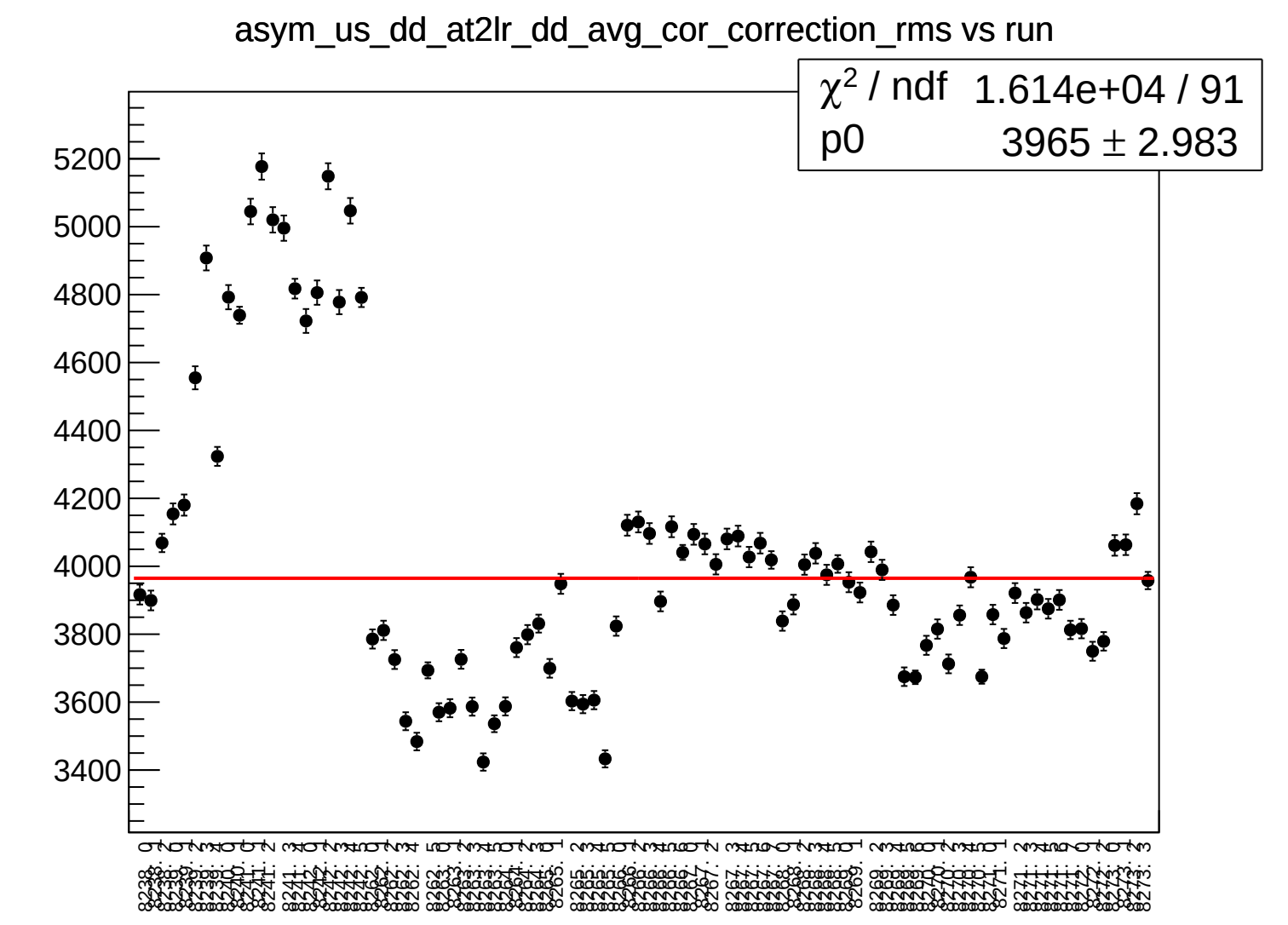

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 88.98 / 91
p0 −346.8 ± 2367
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 157.7
Std Dev 0
2
1
0
−1
−2

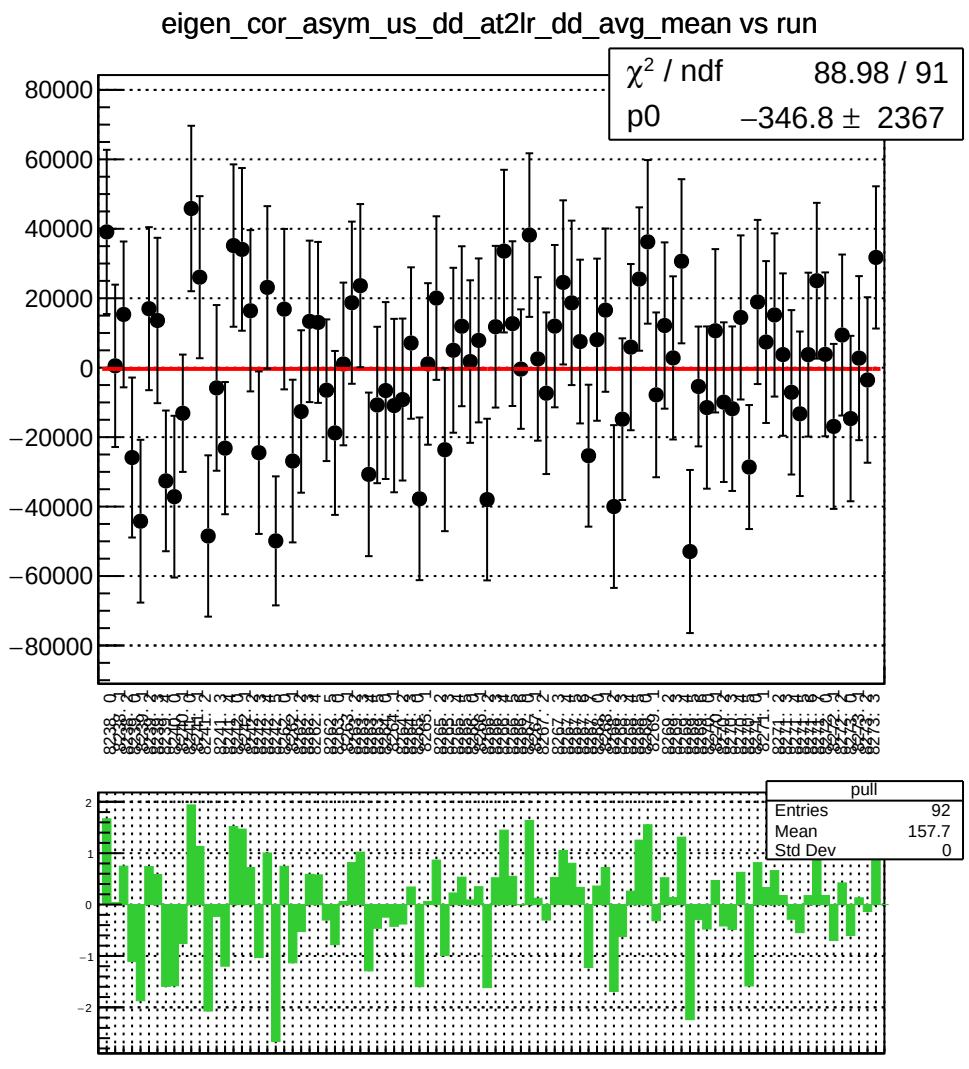

pull1D
Entries 92
Mean 0.02035
Std Dev 0.9832
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

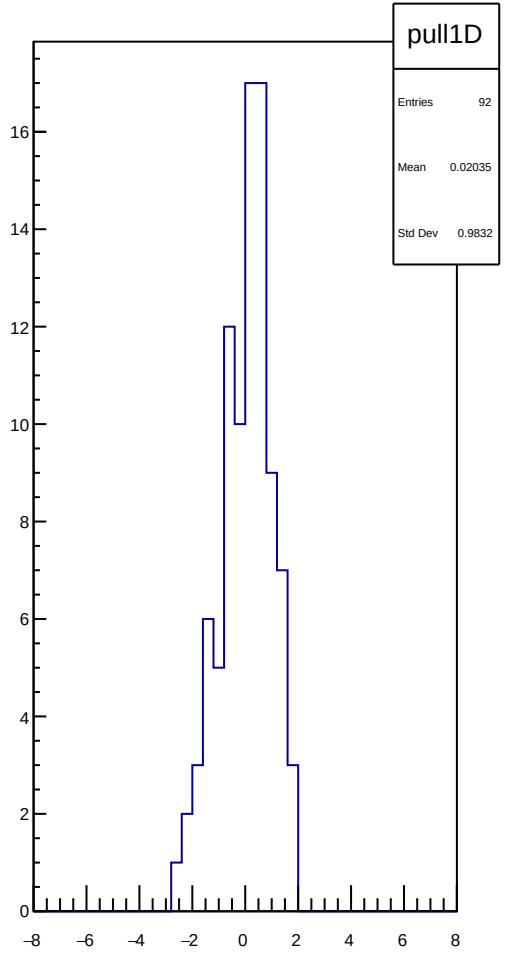

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 294.5 / 91
p0 2234 ± 1.674
2450
2400
2350
2300
2250
2200
2150

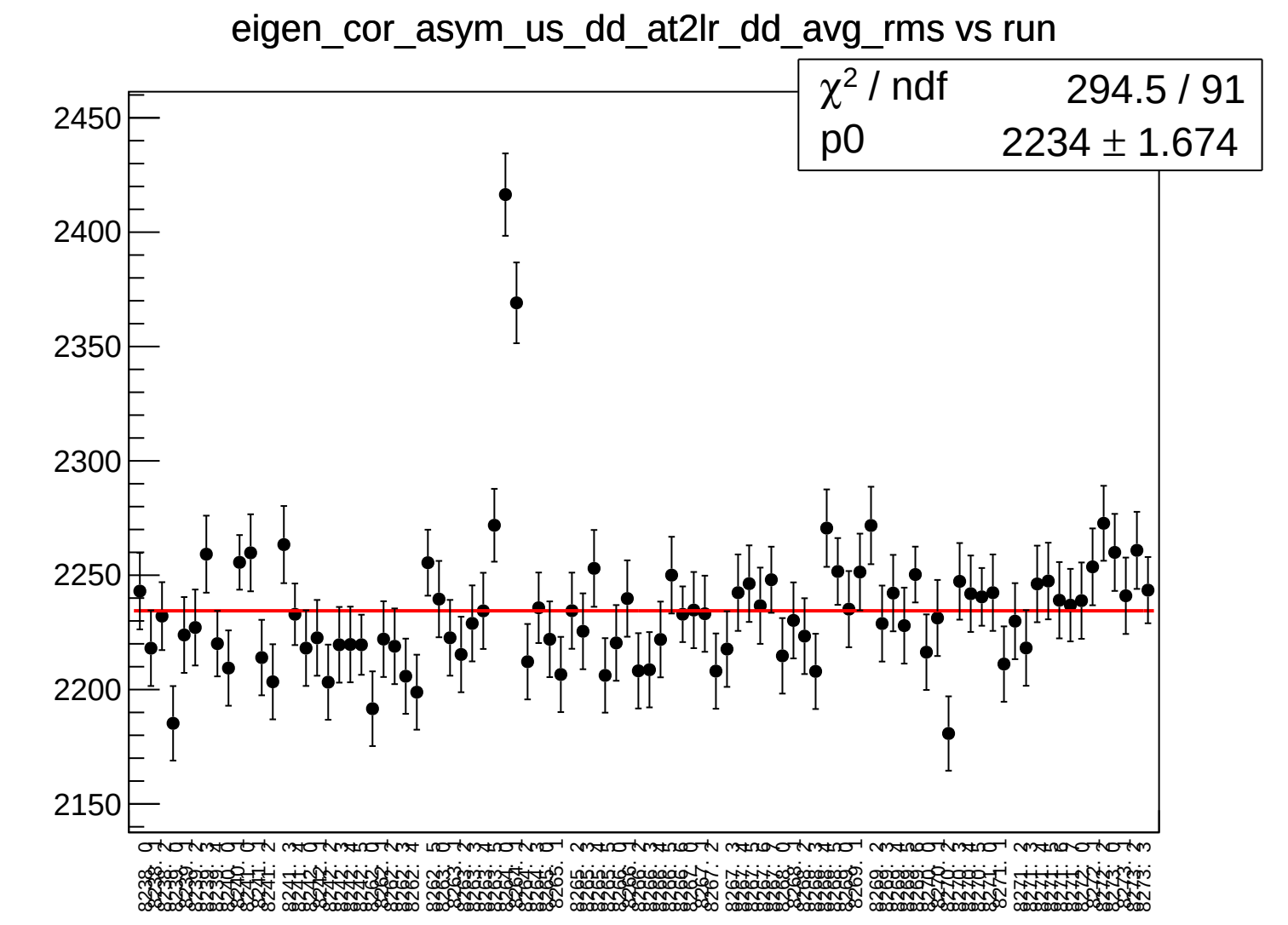

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 66.15 / 91
p0 −1.27e+04 ± 4218
pull
Entries 92
Mean −682.8
Std Dev 0

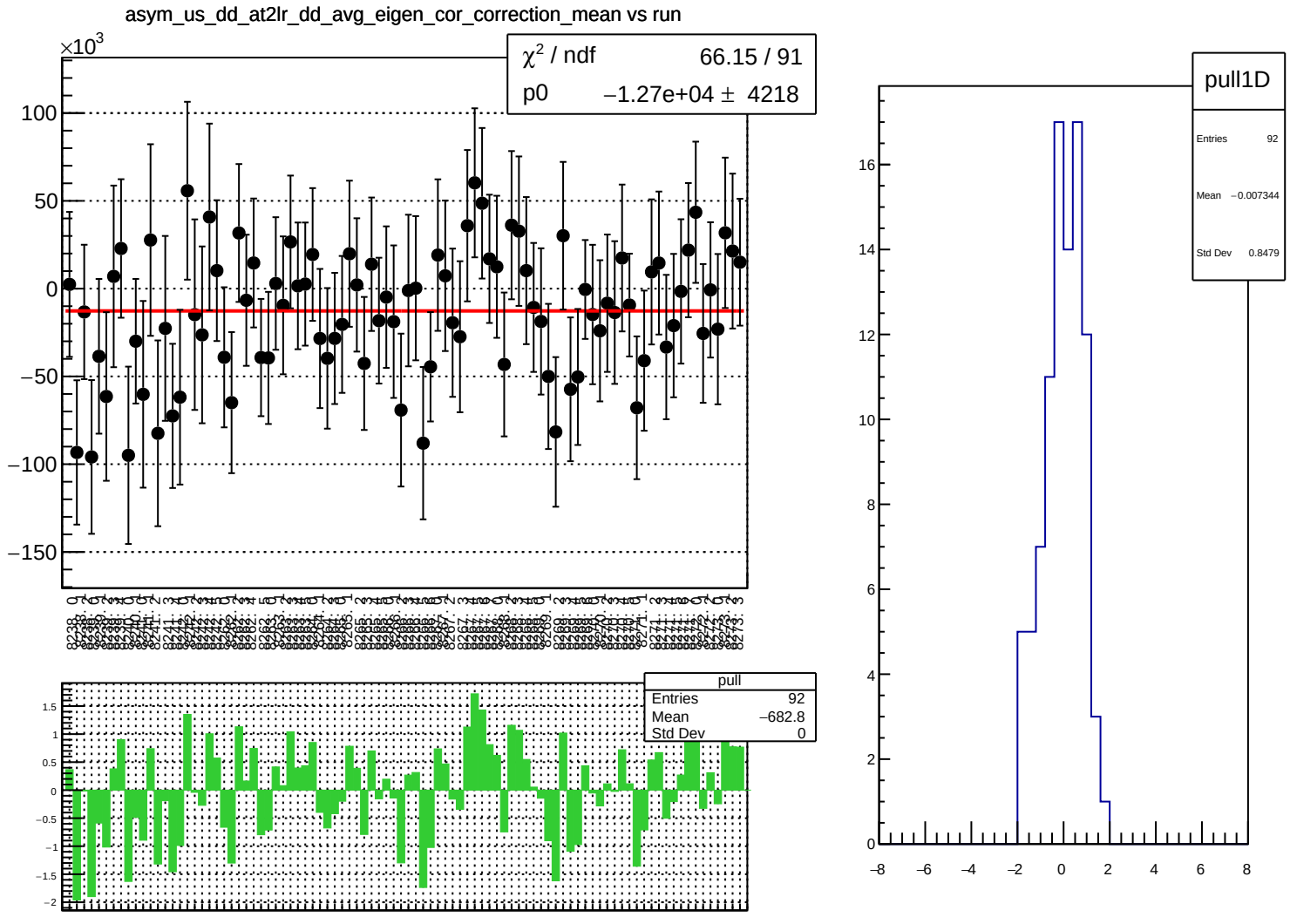

pull1D
Entries 92
Mean −0.007344
Std Dev 0.8479

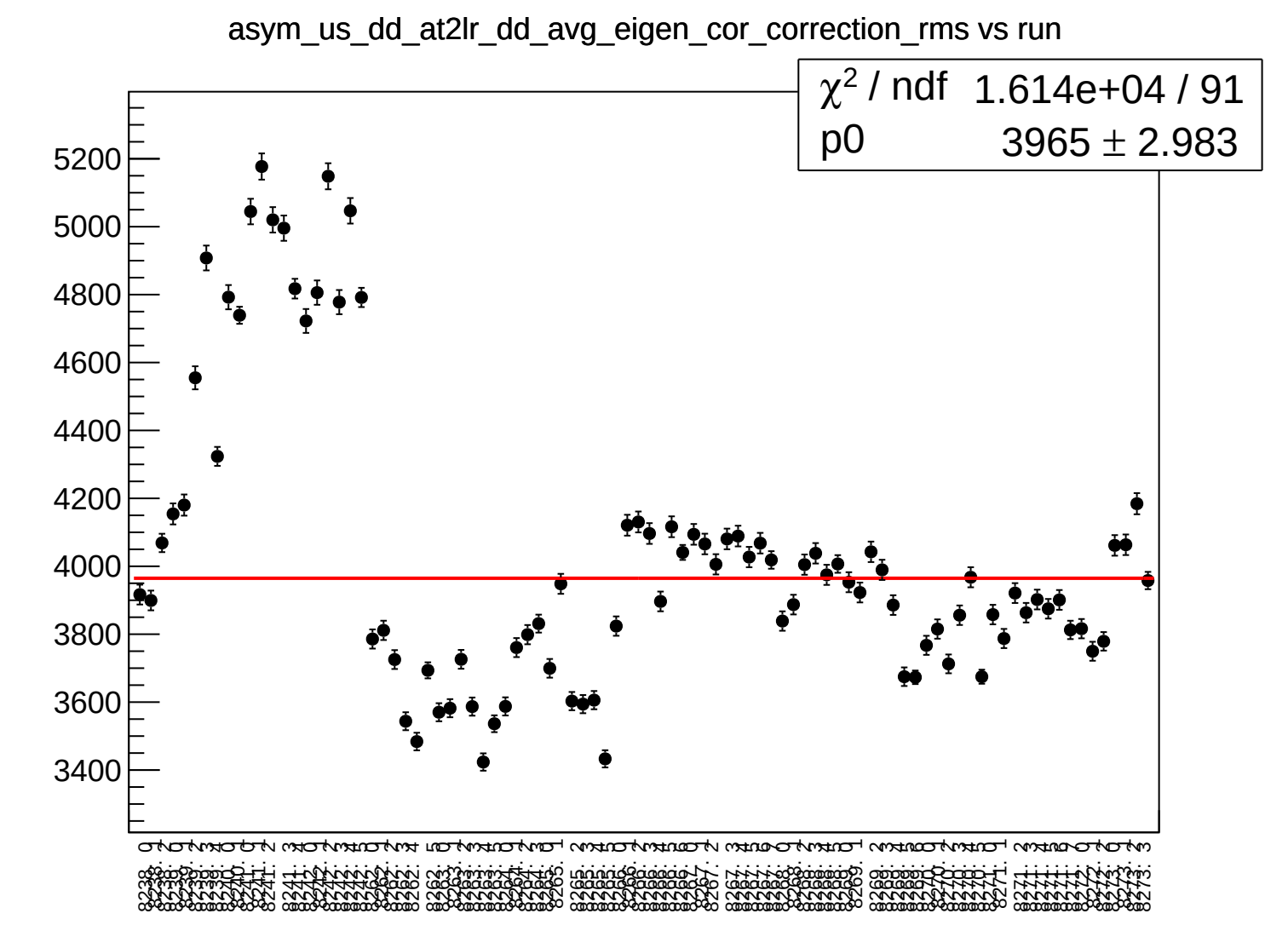

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
$\chi^2$ / ndf 1.614e+04 / 91
p0 3965 ± 2.983
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

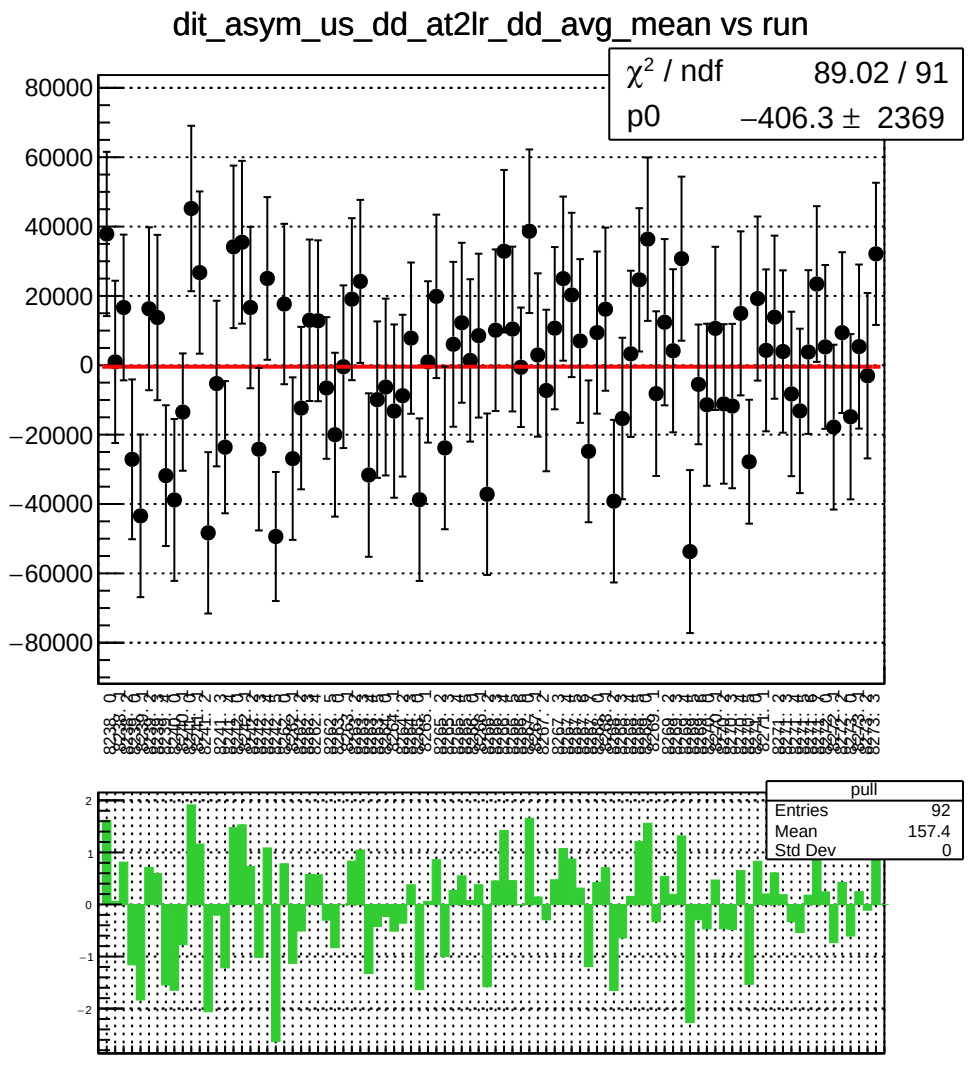

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 88.98 / 91
p0 −346.8 ± 2367
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 157.7
Std Dev 0
2
1
0
−1
−2

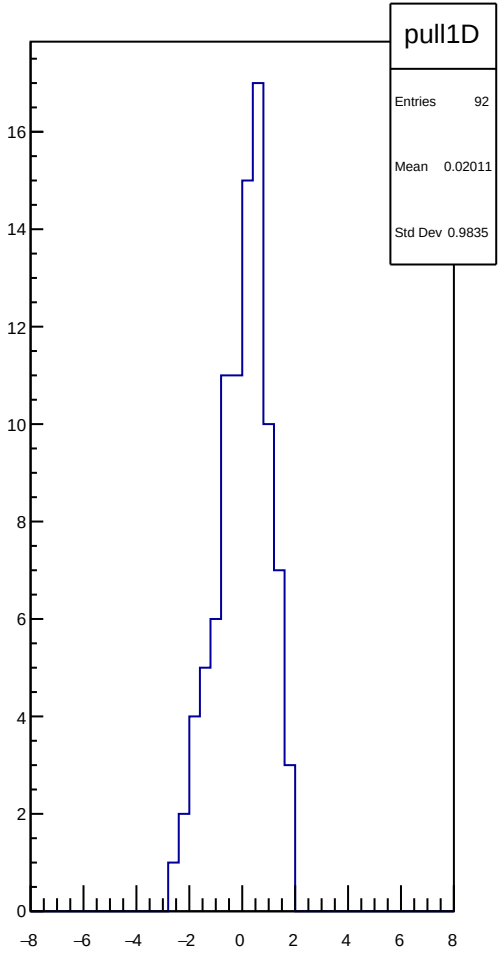

pull1D
Entries 92
Mean 0.02035
Std Dev 0.9832
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

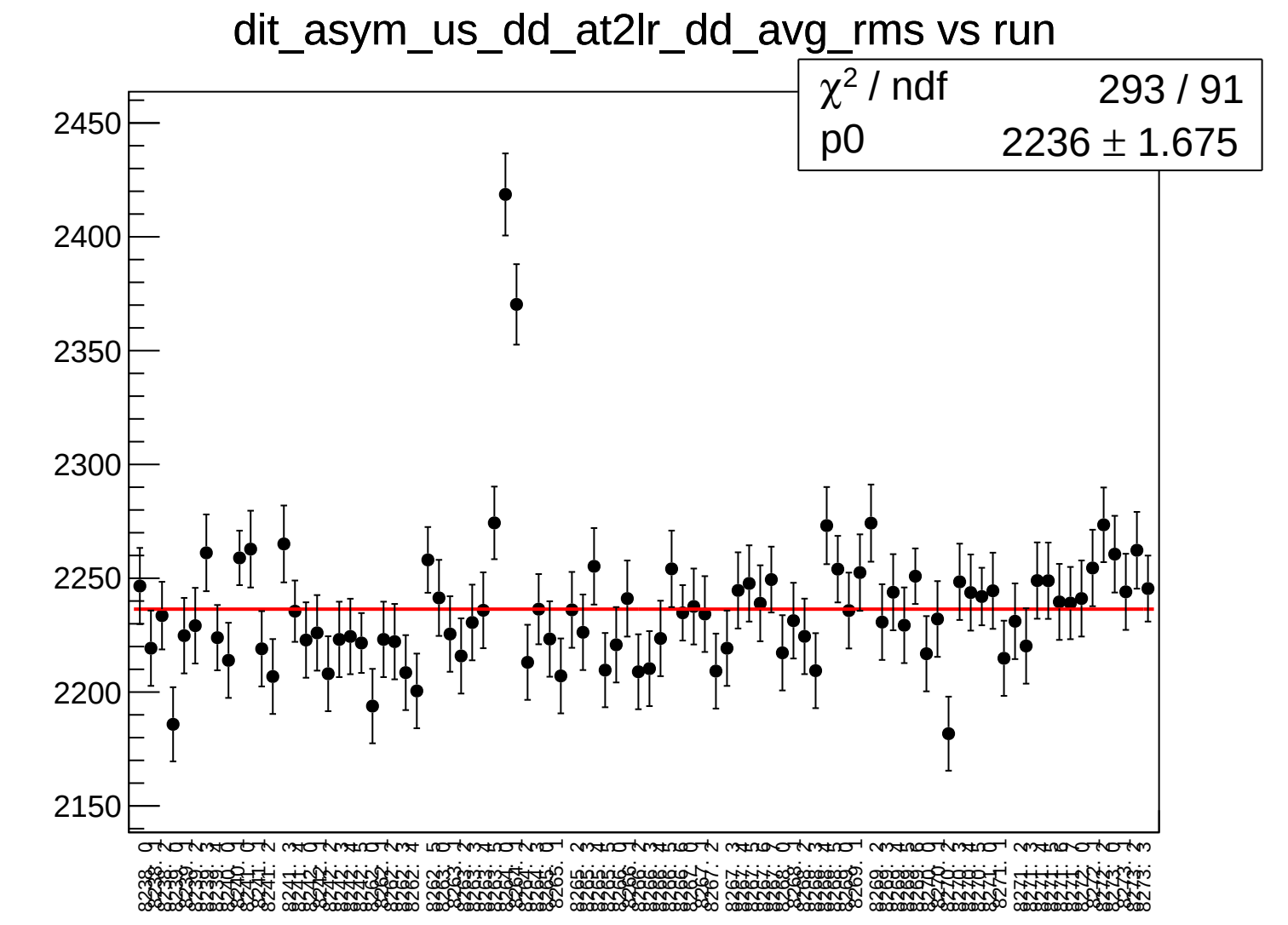

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 294.5 / 91
p0 2234 ± 1.674
2450
2400
2350
2300
2250
2200
2150

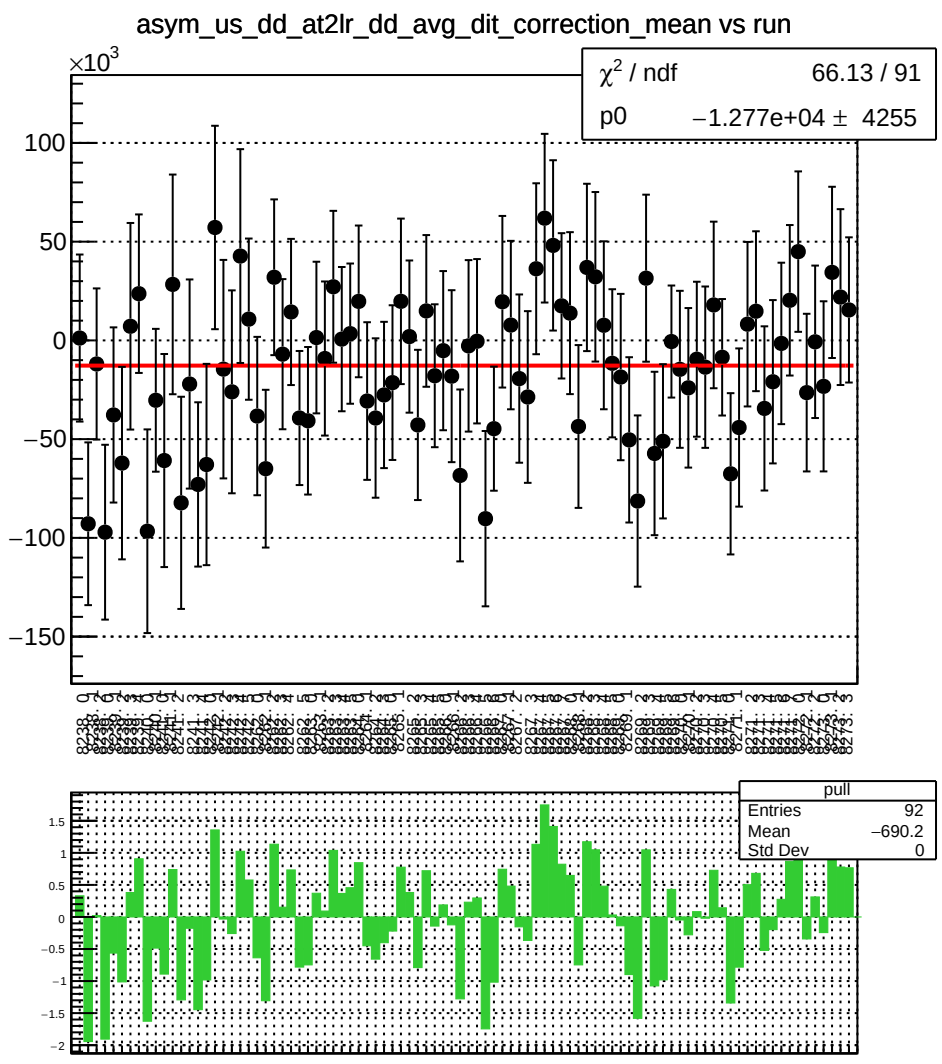

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 66.15 / 91
p0 −1.27e+04 ± 4218
100
50
0
−50
−100
−150
pull
Entries 92
Mean −682.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.007344
Std Dev 0.8479
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

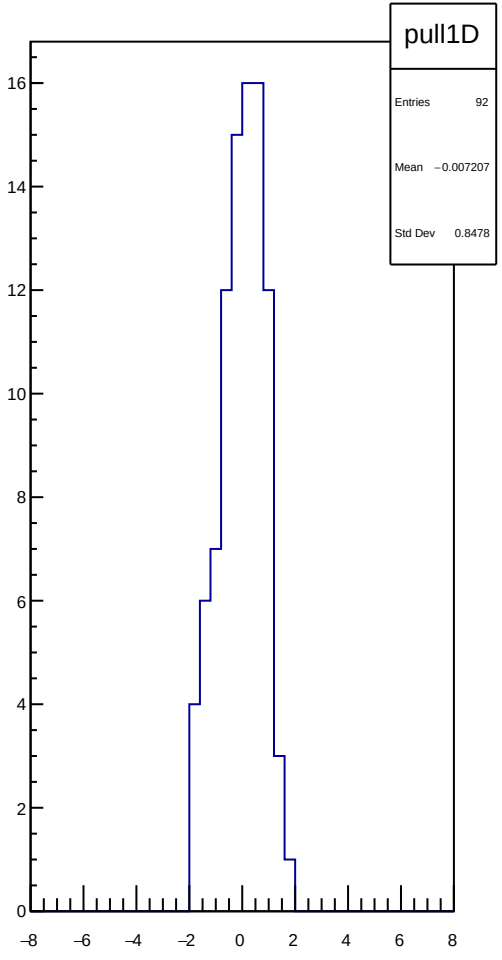

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.614e+04 / 91
p0 3965 ± 2.983
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

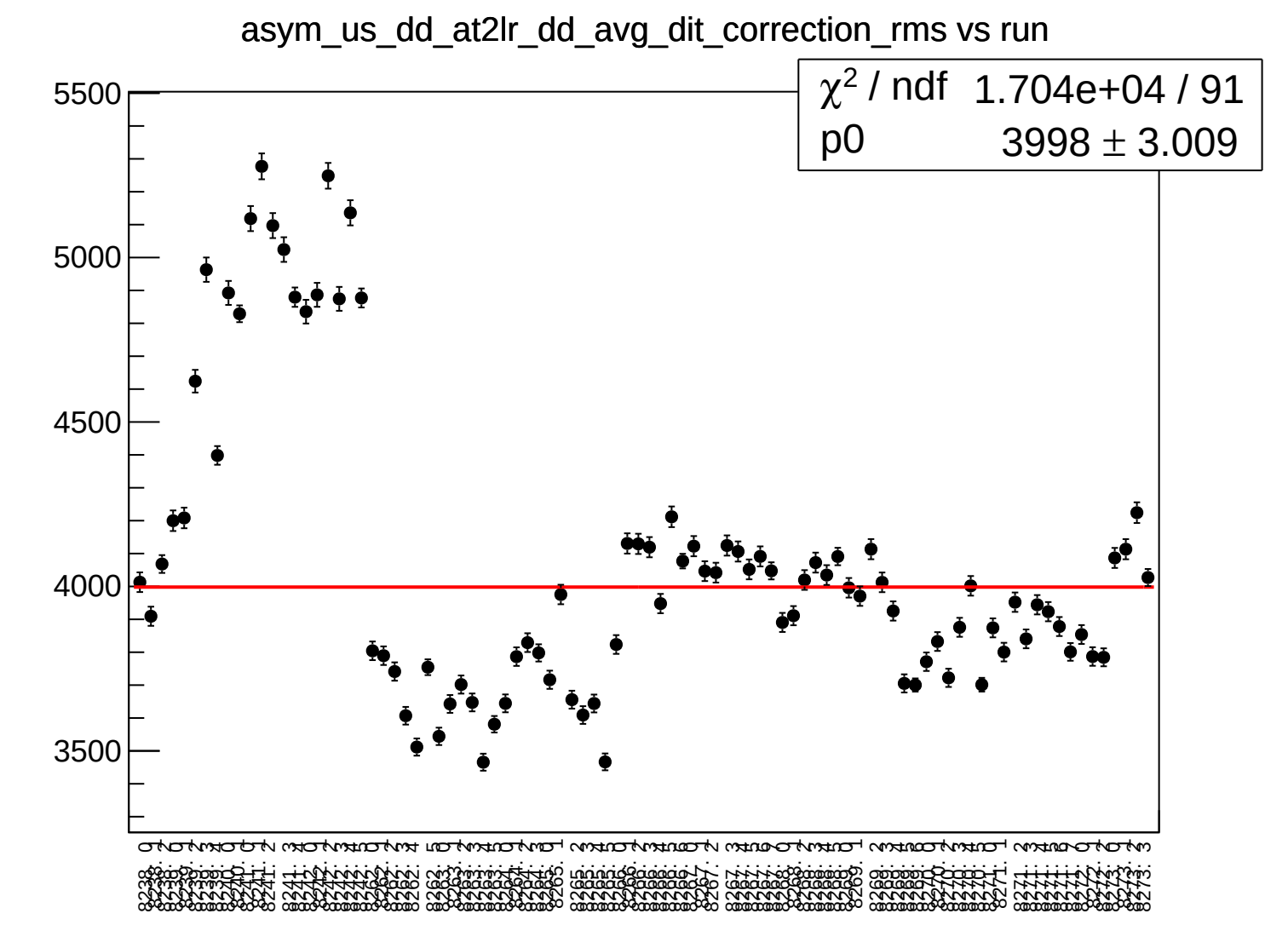

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 89.02 / 91
p0 −406.3 ± 2369
pull
Entries 92
Mean 157.4
Std Dev 0

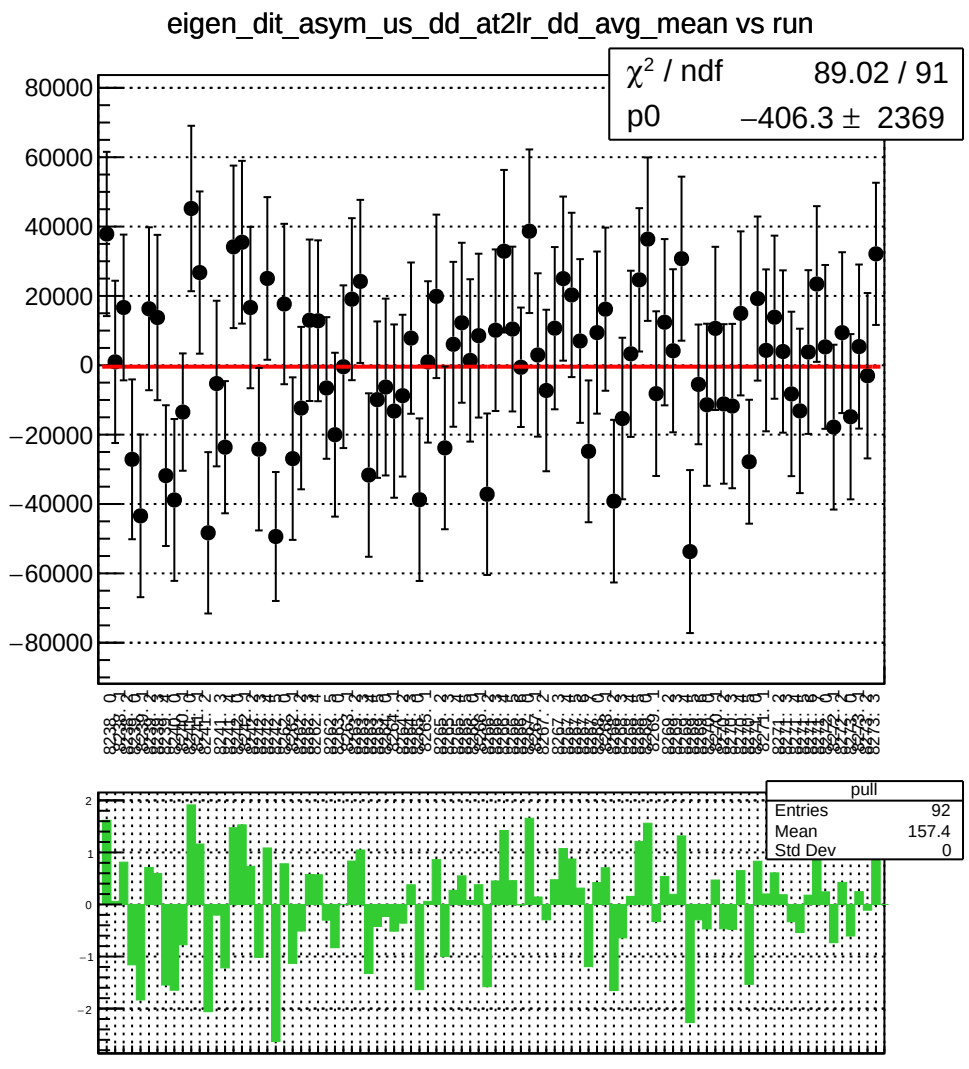

pull1D
Entries 92
Mean 0.02011
Std Dev 0.9835

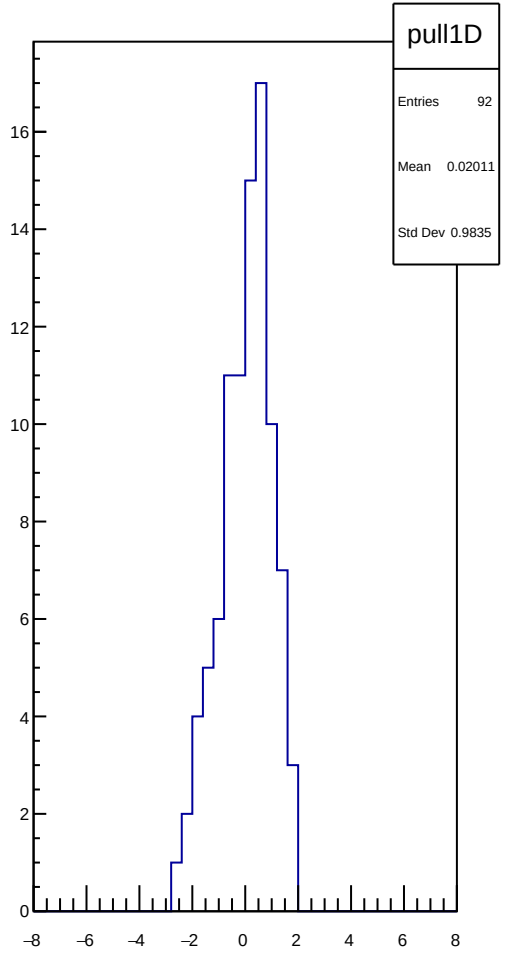

dit_asym_us_dd_at2lr_dd_avg_rms vs run
$\chi^2$ / ndf 293 / 91
p0 2236 ± 1.675
2450
2400
2350
2300
2250
2200
2150

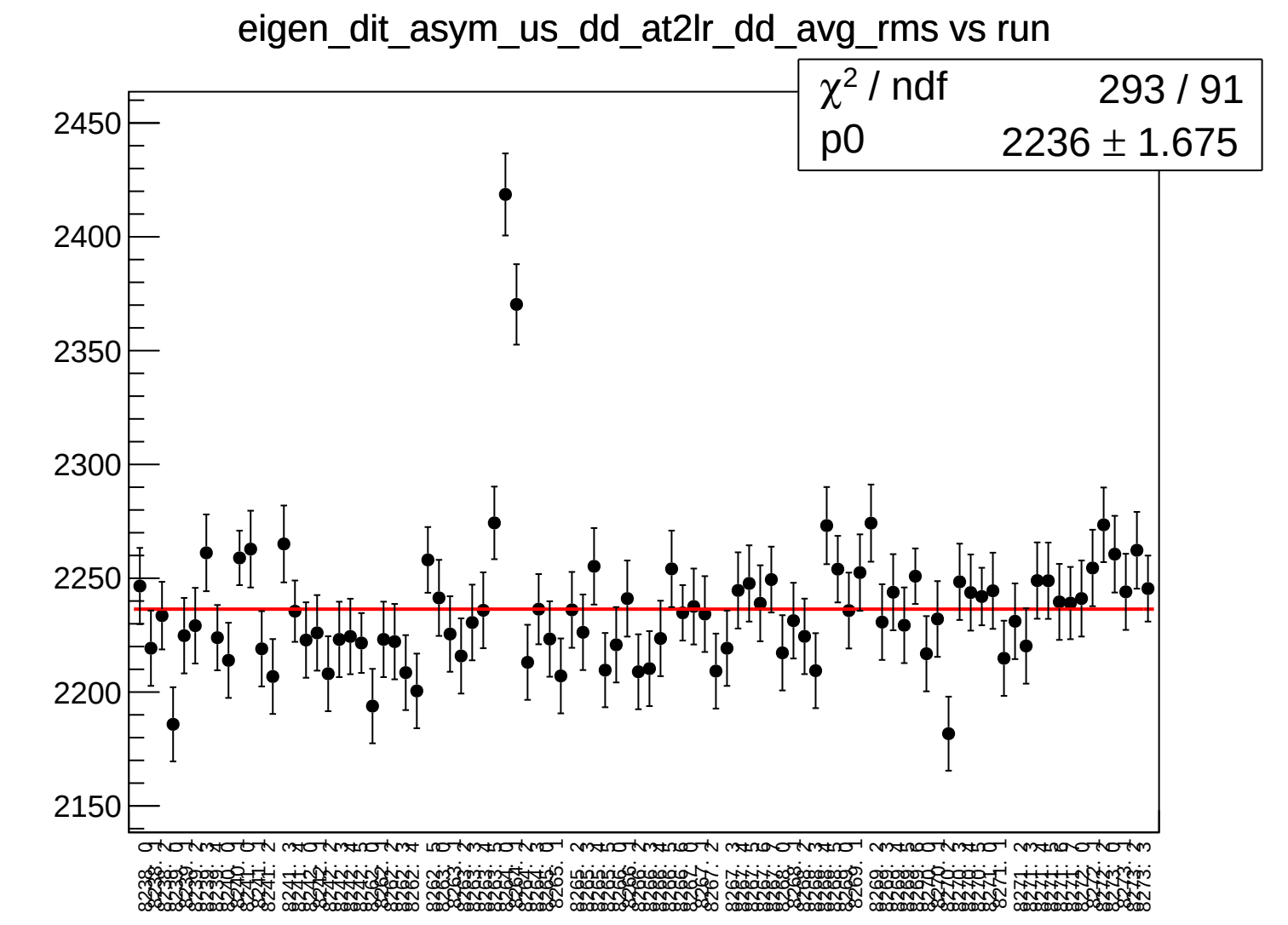

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 66.13 / 91
p0 −1.277e+04 ± 4255
pull
Entries 92
Mean −690.2
Std Dev 0

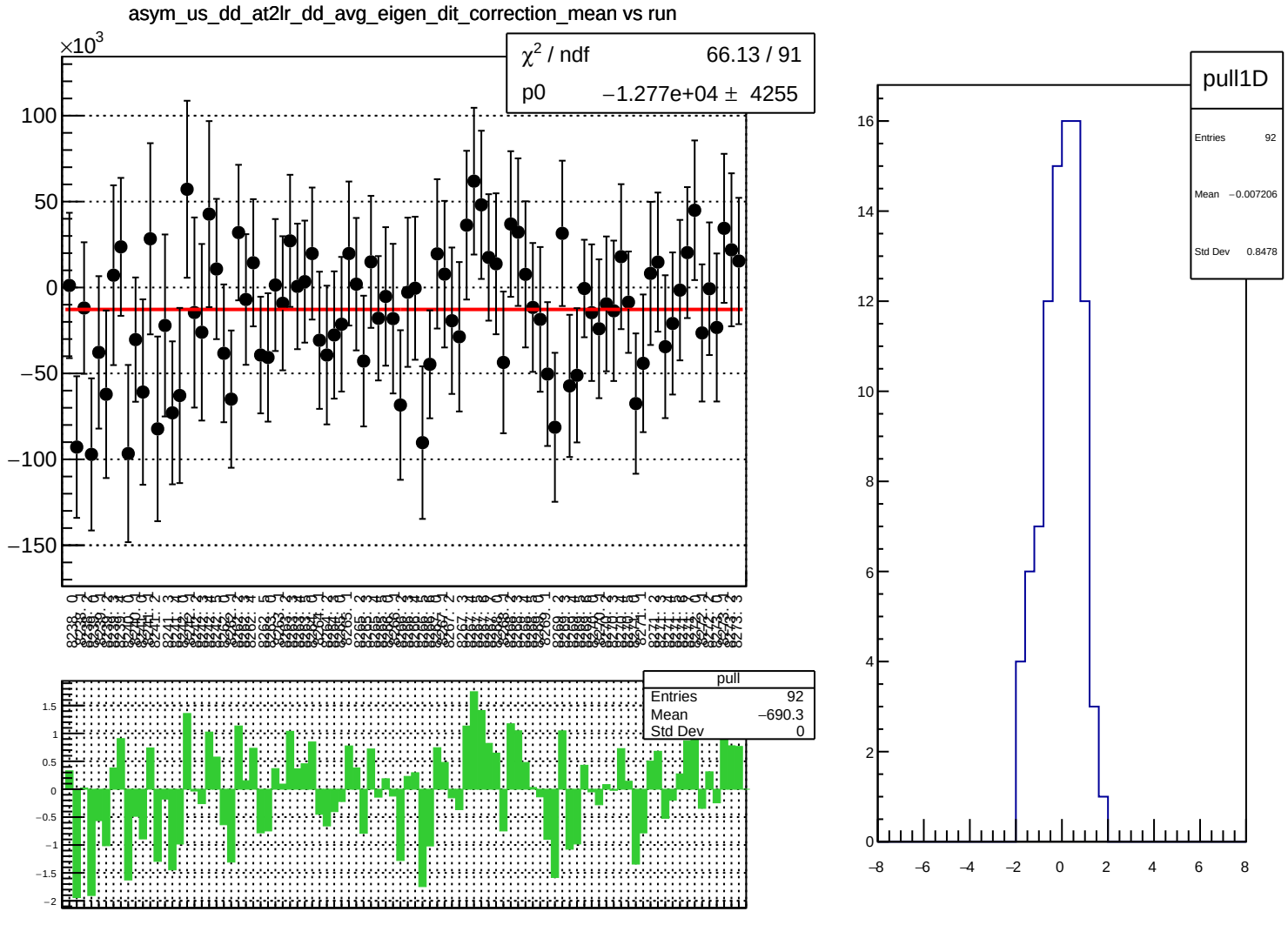

pull1D
Entries 92
Mean −0.007207
Std Dev 0.8478

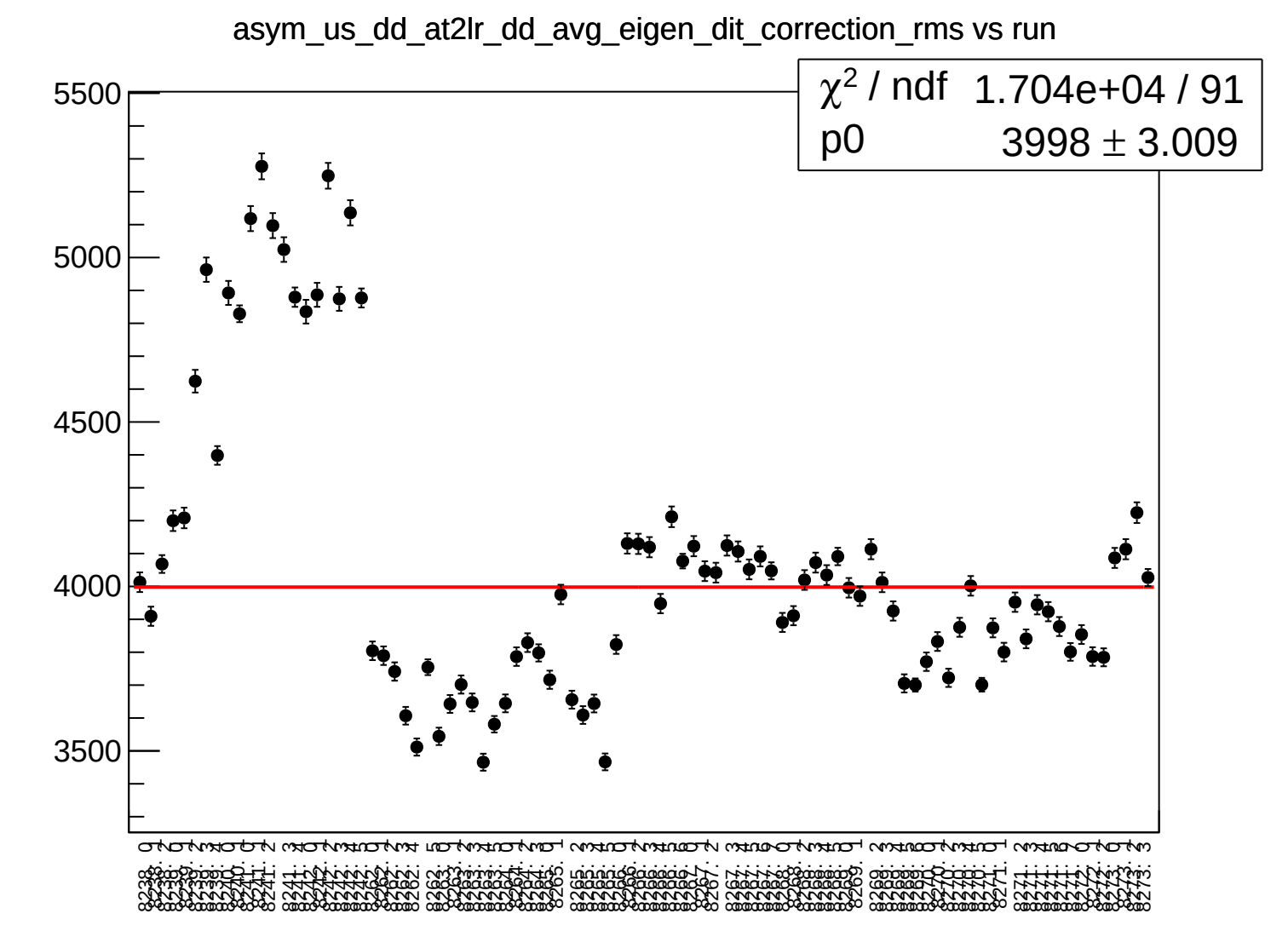

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.704e+04 / 91
p0 3998 ± 3.009
5500
5000
4500
4000
3500

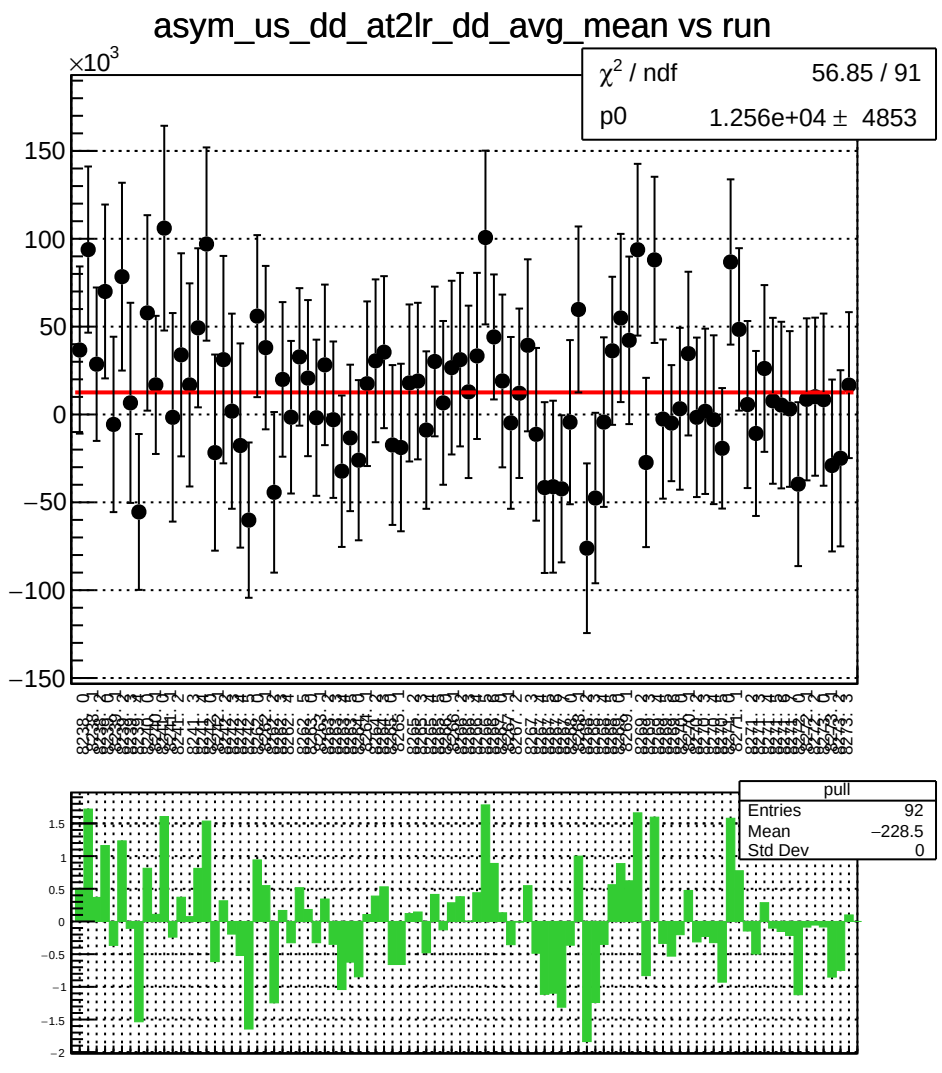

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 89.02 / 91
p0 −406.3 ± 2369
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 157.4
Std Dev 0
2
1
0
−1
−2

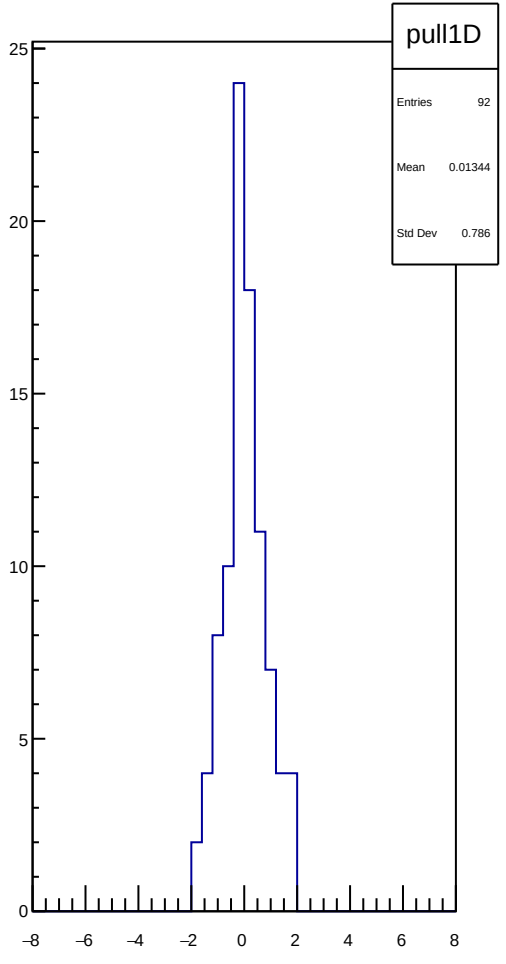

pull1D
Entries 92
Mean 0.02011
Std Dev 0.9835
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

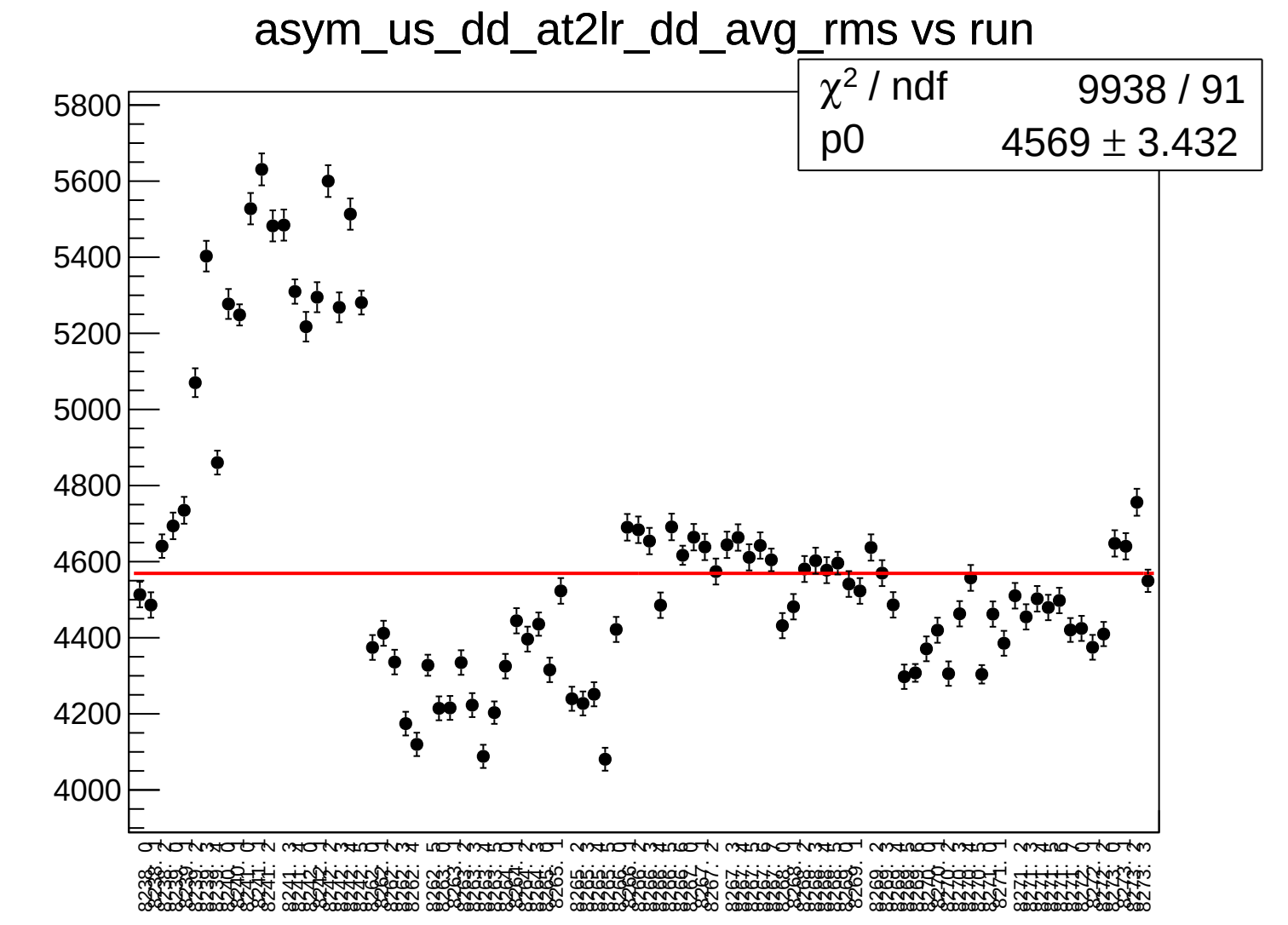

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
$\chi^2$ / ndf 293 / 91
p0 2236 ± 1.675
2450
2400
2350
2300
2250
2200
2150

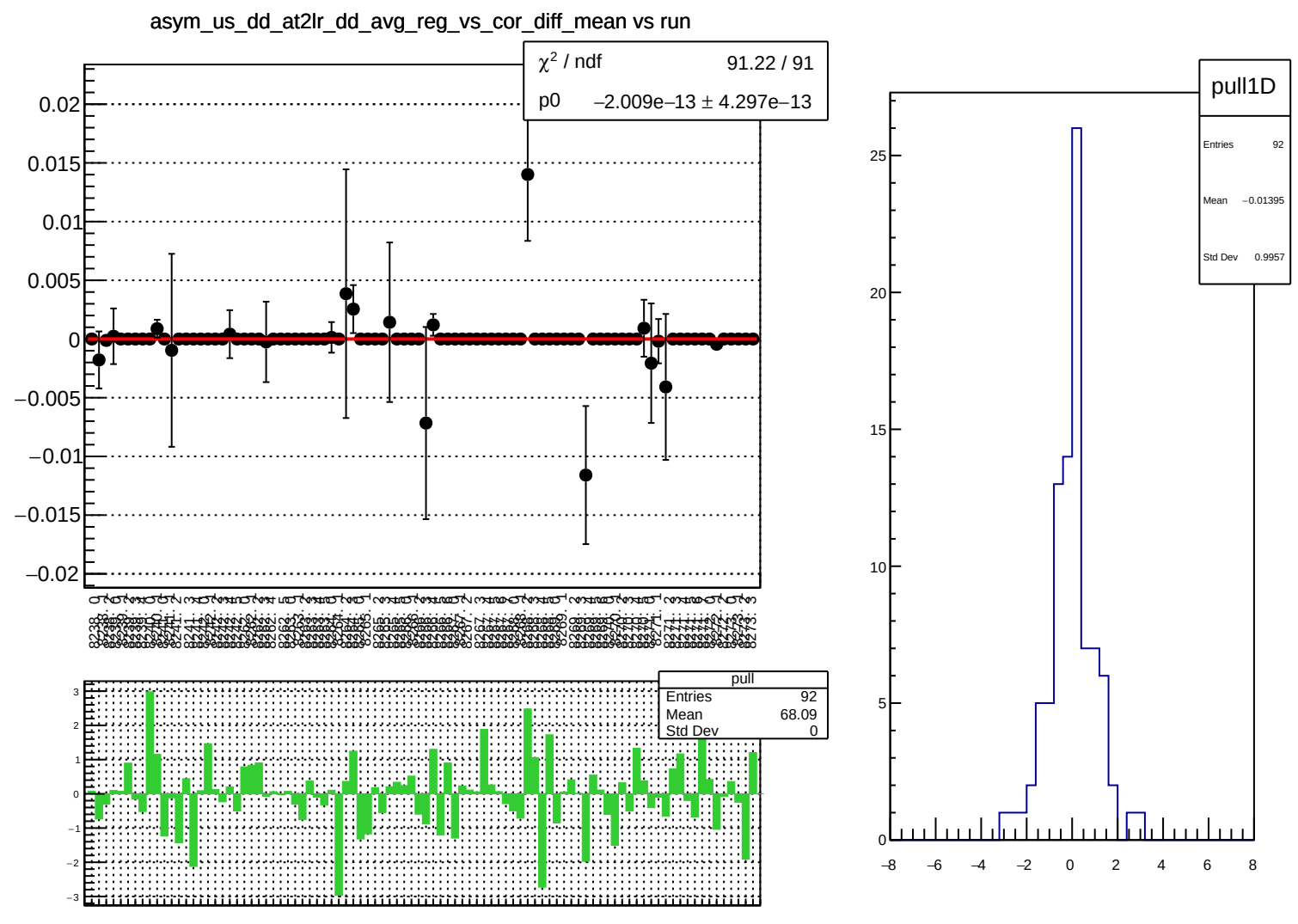

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.13 / 91
p0 −1.277e+04 ± 4255
100
50
0
−50
−100
−150
pull
Entries 92
Mean −690.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.007206
Std Dev 0.8478
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

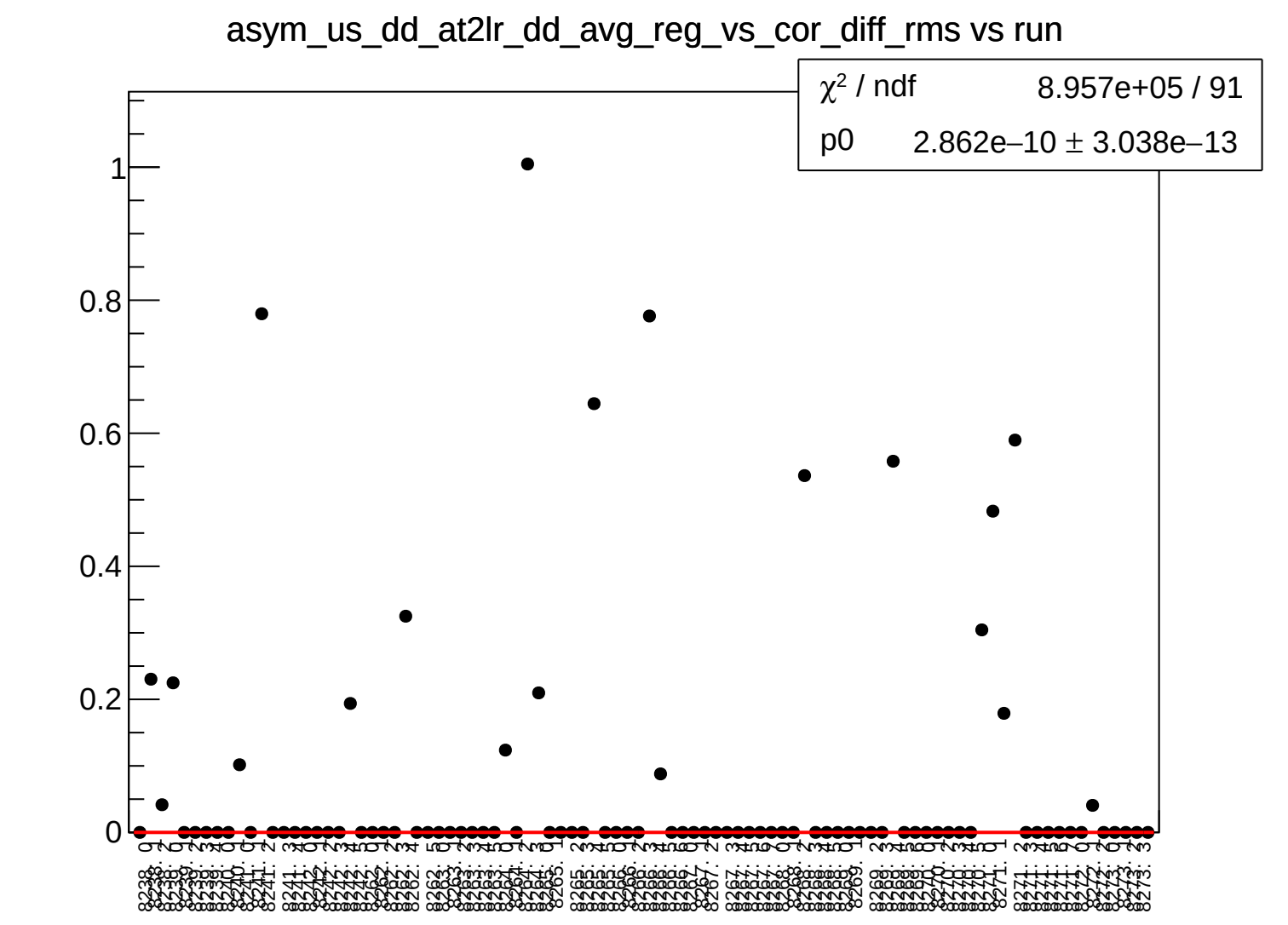

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
$\chi^2$ / ndf 1.704e+04 / 91
p0 3998 ± 3.009
5500
5000
4500
4000
3500

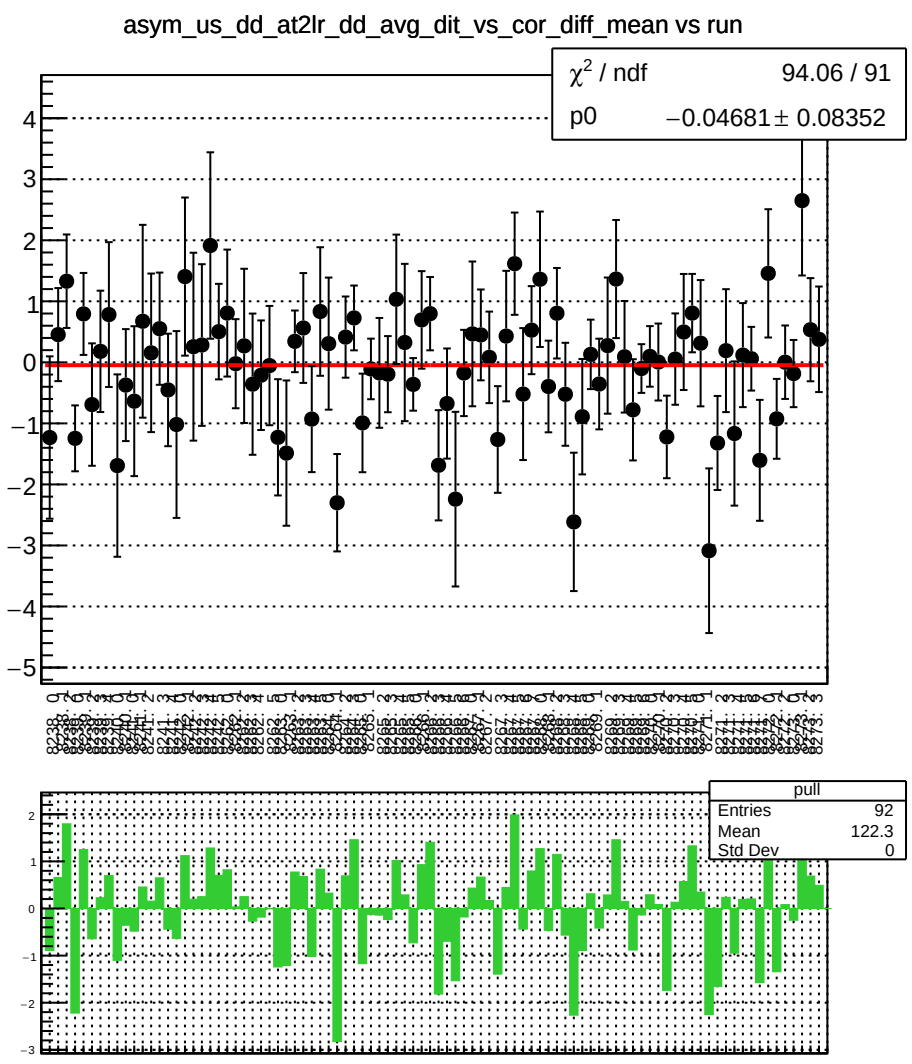

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 56.85 / 91
p0 1.256e+04 ± 4853
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −228.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

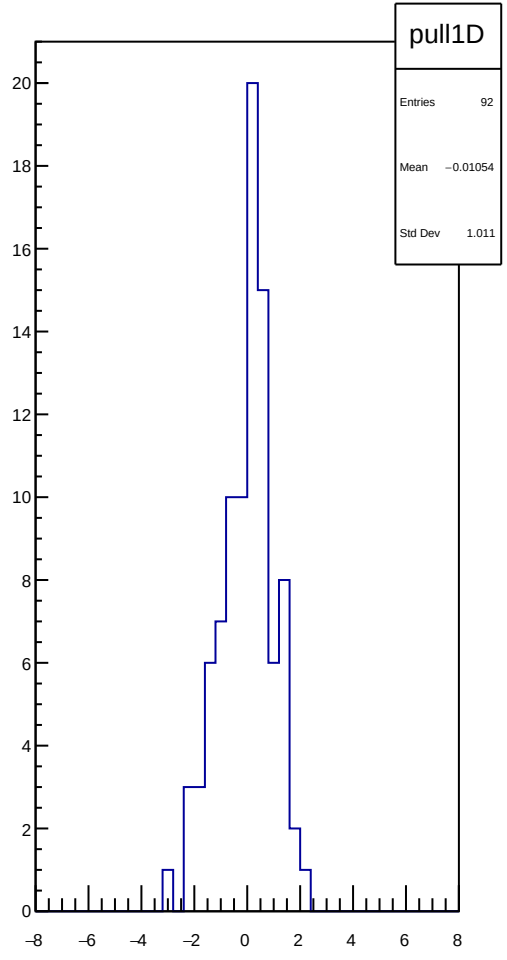

pull1D
Entries 92
Mean 0.01344
Std Dev 0.786
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

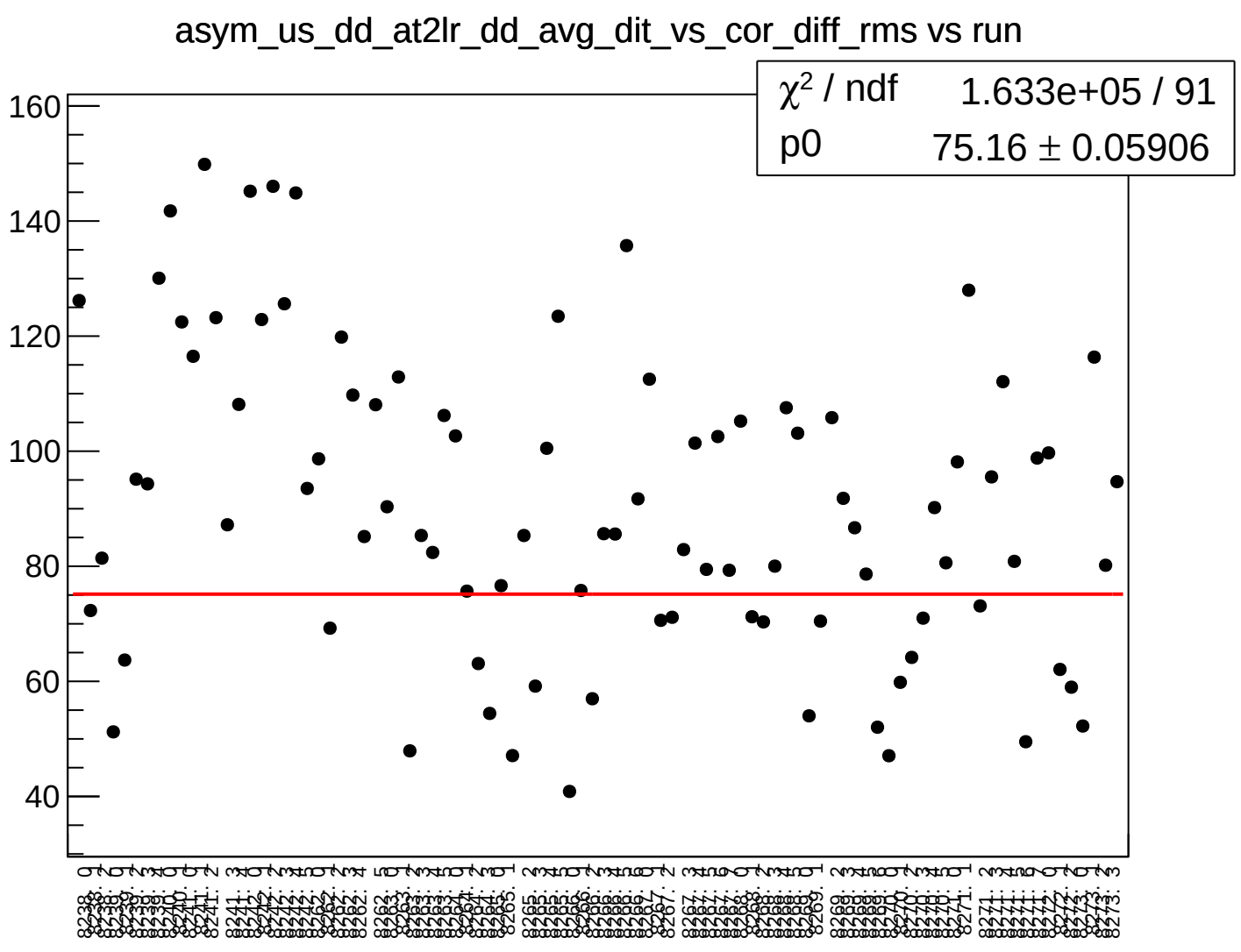

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 9938 / 91
p0 4569 ± 3.432
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

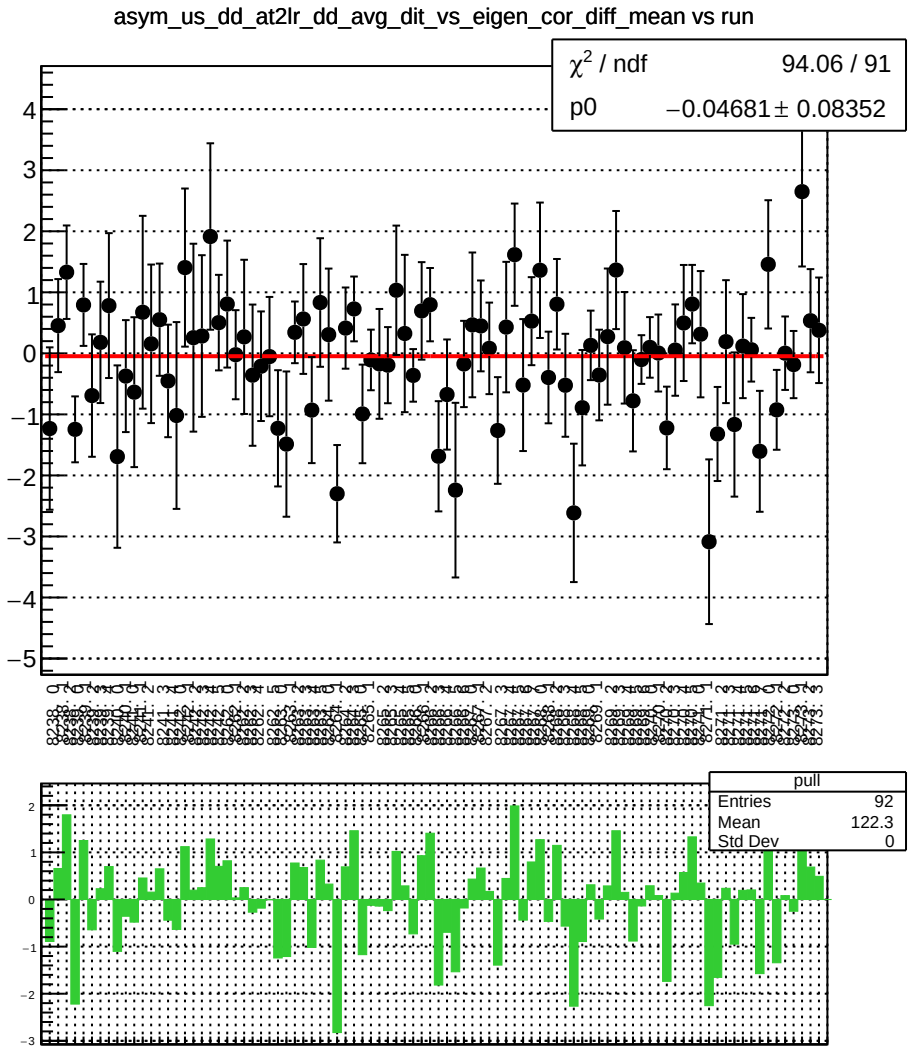

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.22 / 91
p0 −2.009e−13 ± 4.297e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 92
Mean 68.09
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.01395
Std Dev 0.9957
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

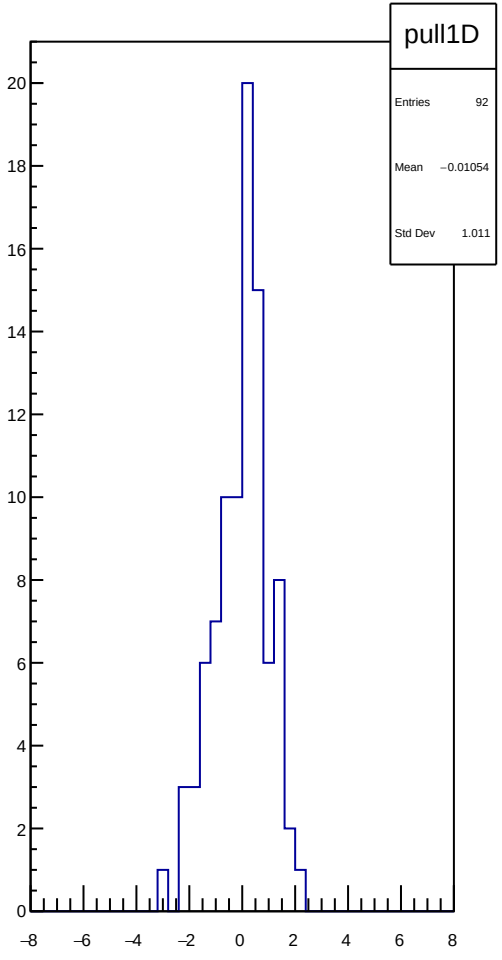

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.957e+05 / 91
p0 2.862e−10 ± 3.038e−13
1
0.8
0.6
0.4
0.2
0

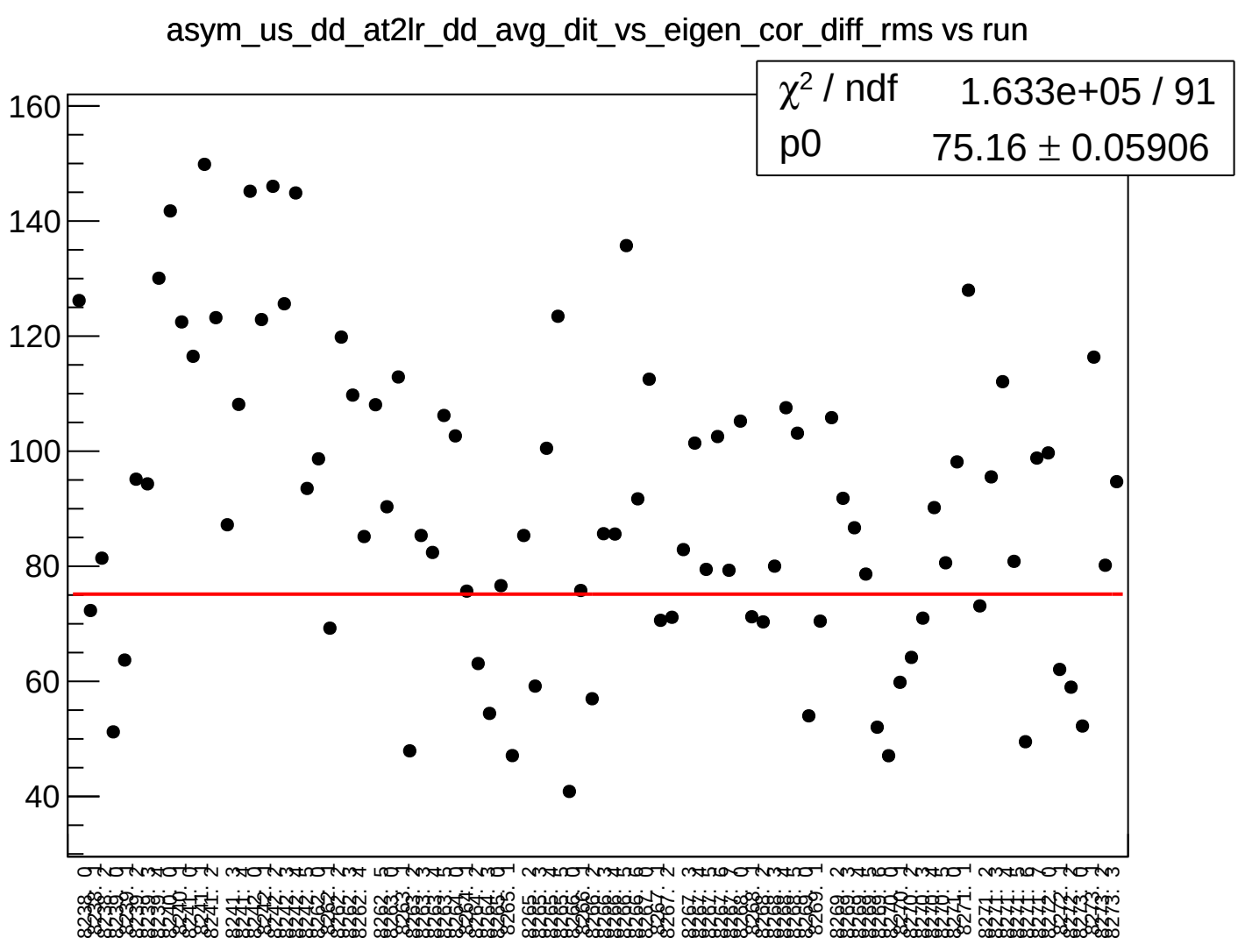

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.06 / 91
p0 −0.04681 ± 0.08352
pull
Entries 92
Mean 122.3
Std Dev 0

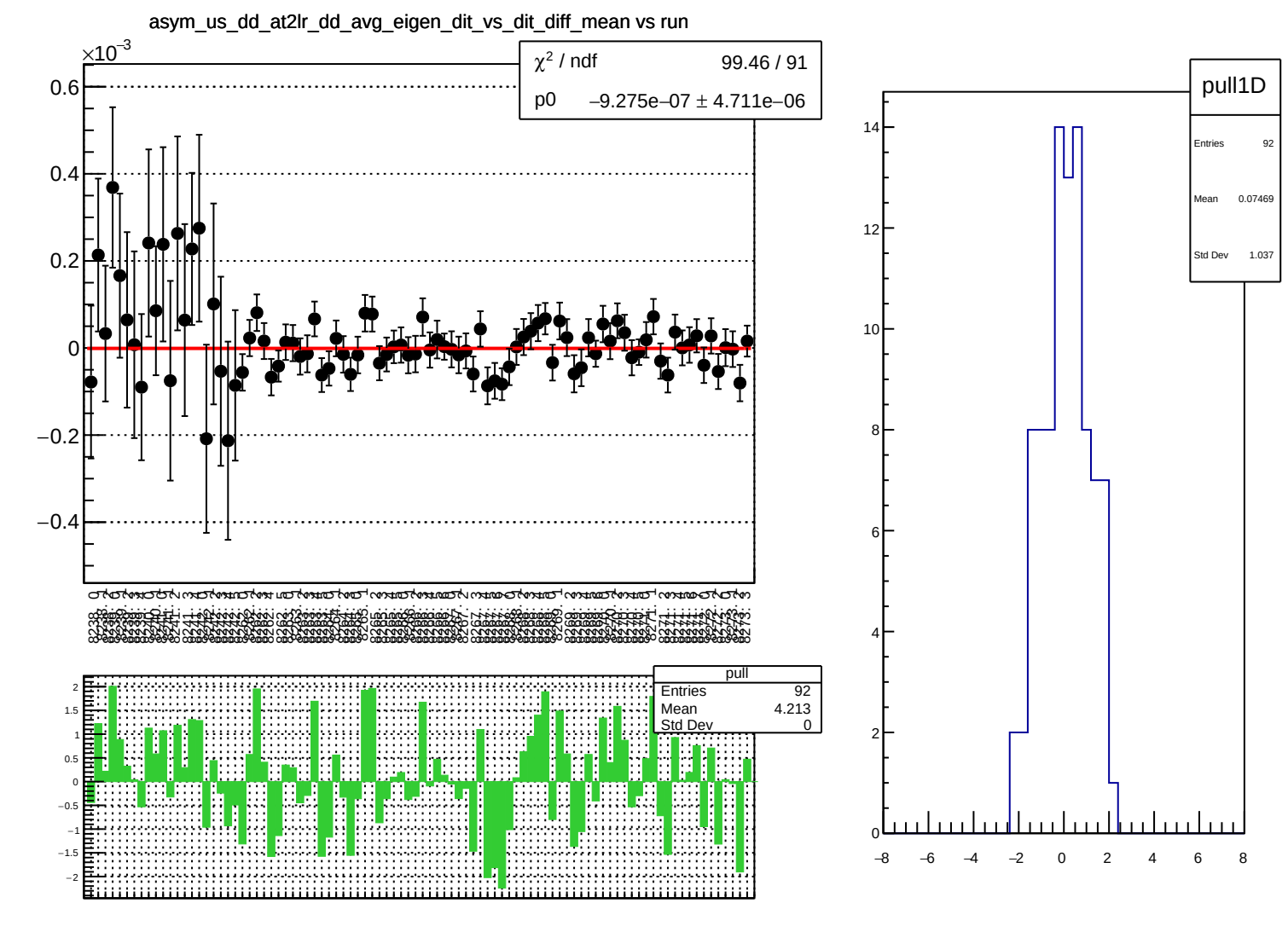

pull1D
Entries 92
Mean −0.01054
Std Dev 1.011

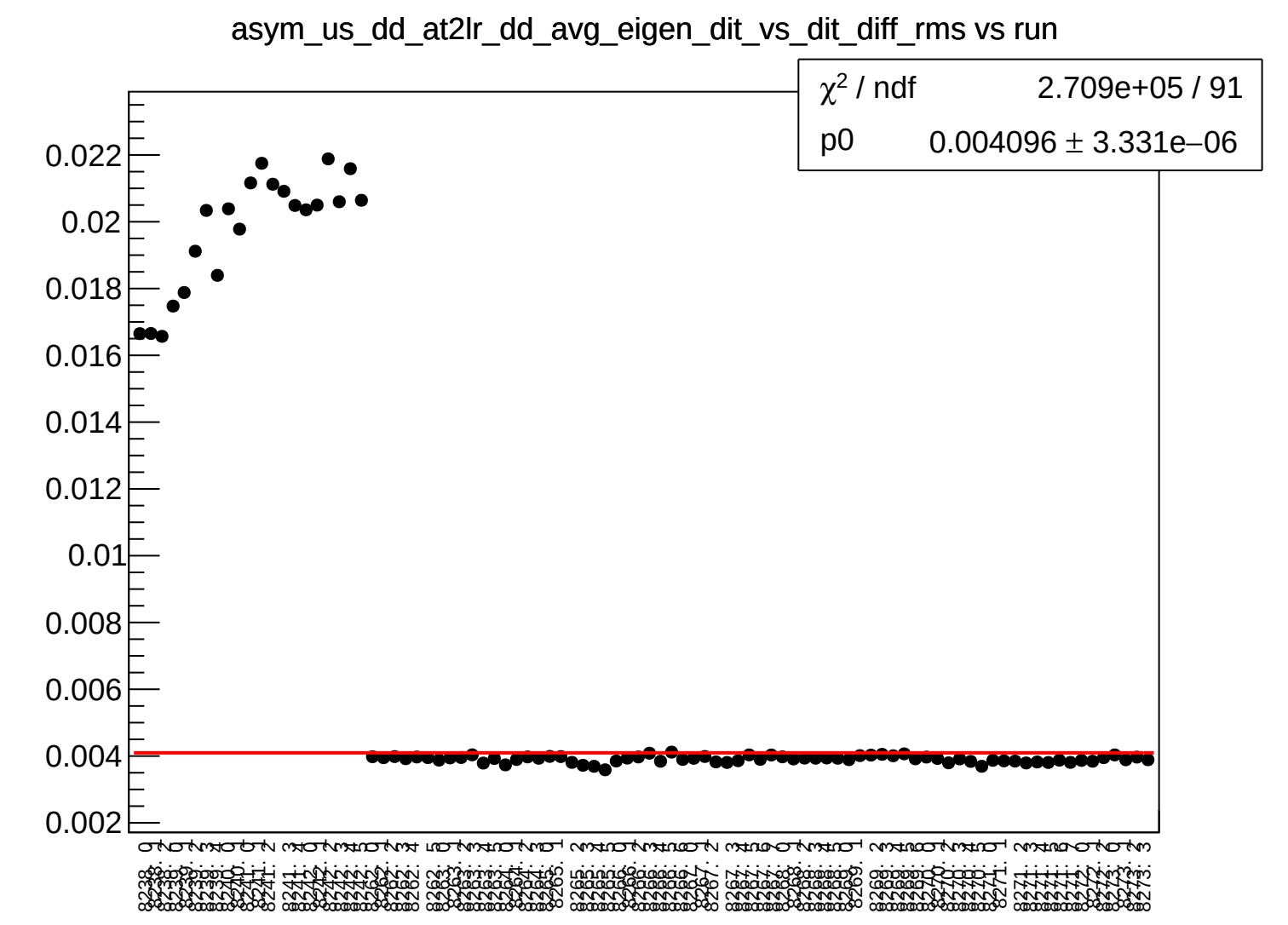

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.633e+05 / 91
p0 75.16 ± 0.05906
160
140
120
100
80
60
40

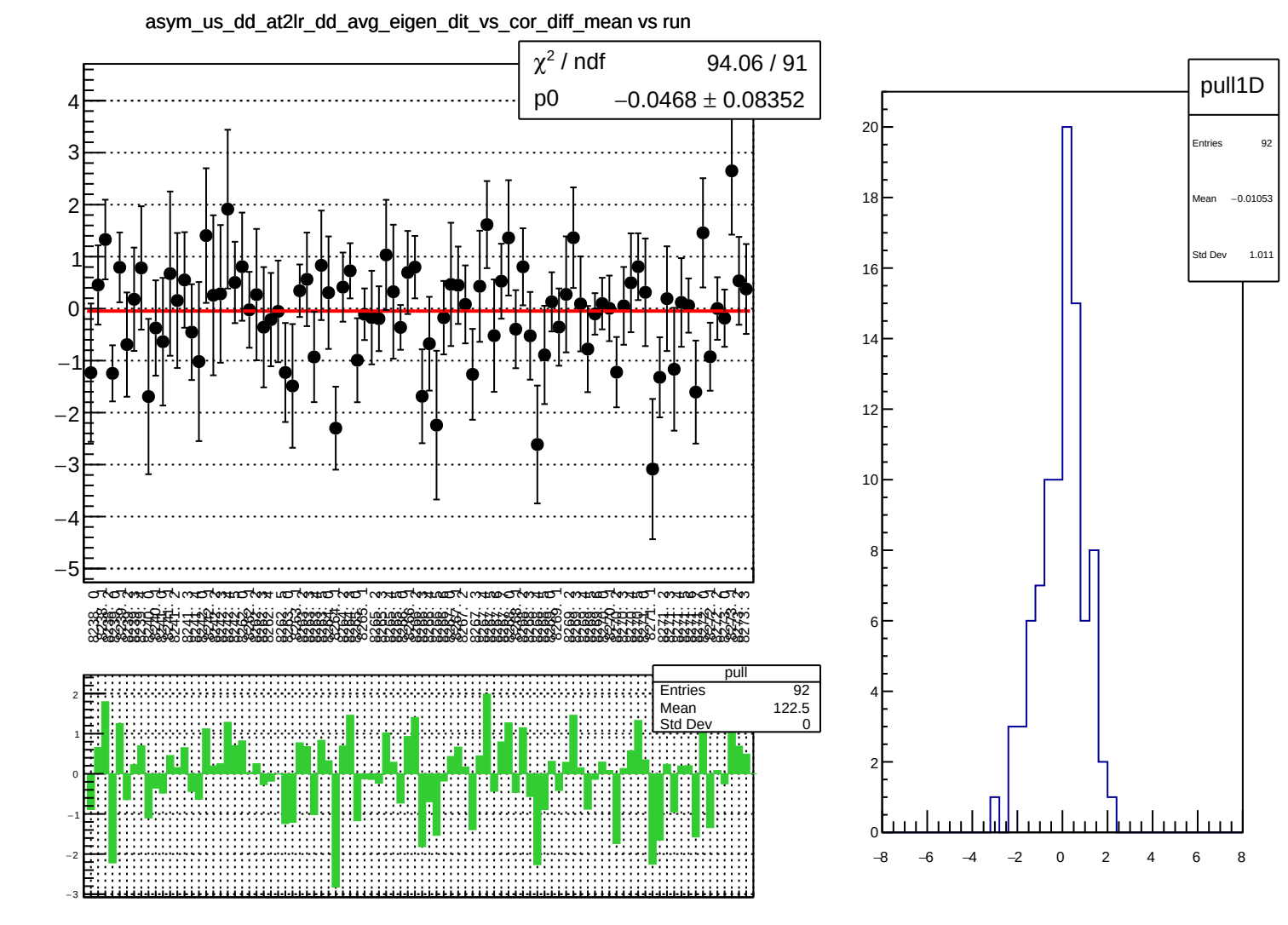

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.06 / 91
p0 −0.04681 ± 0.08352
pull
Entries 92
Mean 122.3
Std Dev 0

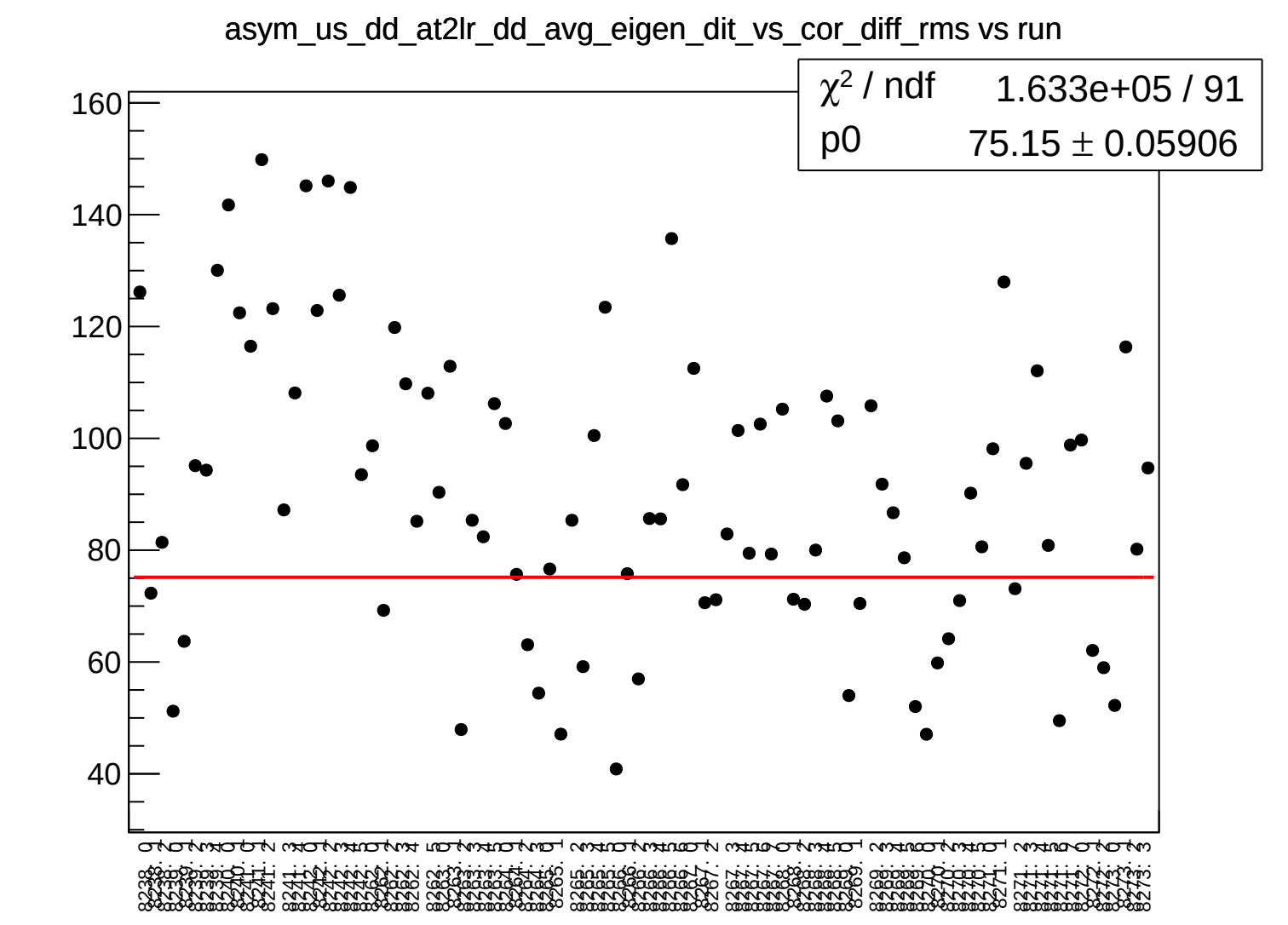

pull1D
Entries 92
Mean −0.01054
Std Dev 1.011

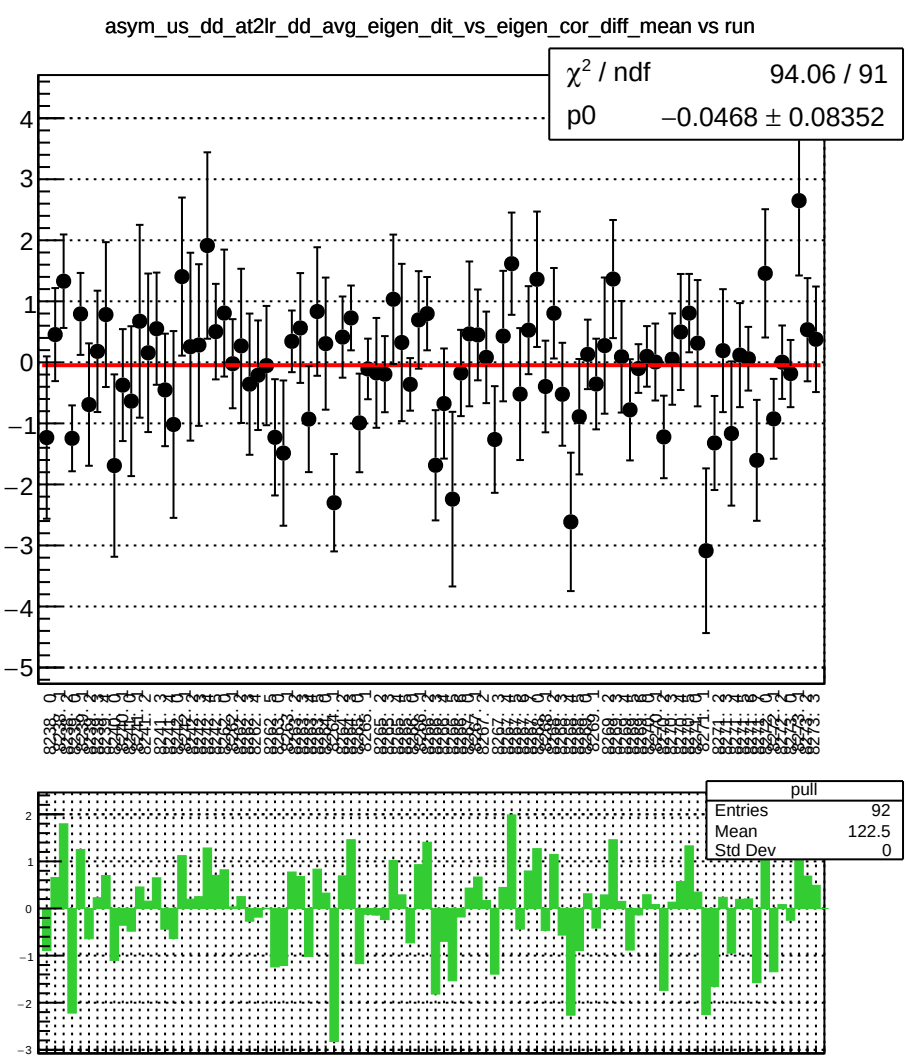

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.633e+05 / 91
p0 75.16 ± 0.05906
160
140
120
100
80
60
40

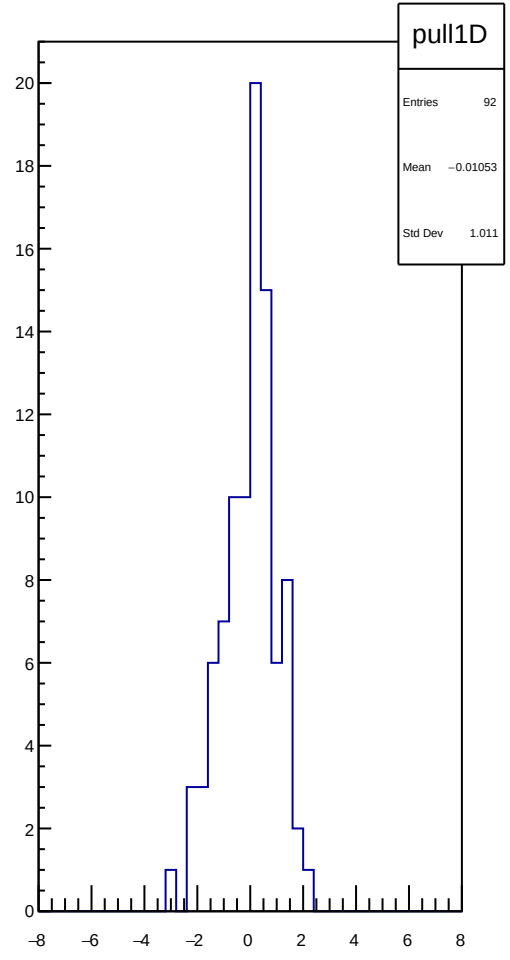

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.46 / 91
p0 −9.275e−07 ± 4.711e−06
pull
Entries 92
Mean 4.213
Std Dev 0
pull1D
Entries 92
Mean 0.07469
Std Dev 1.037

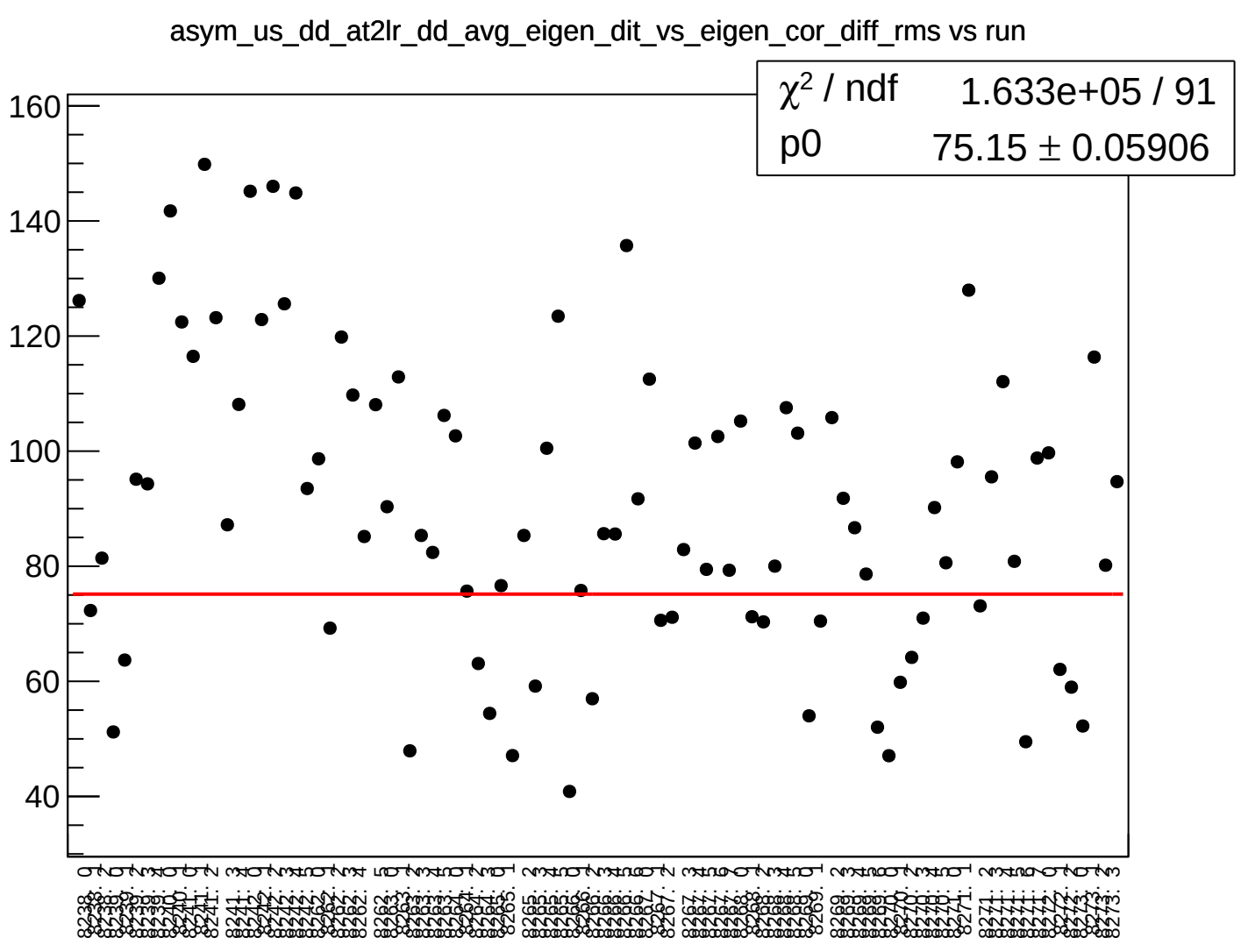

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.709e+05 / 91
p0 0.004096 ± 3.331e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

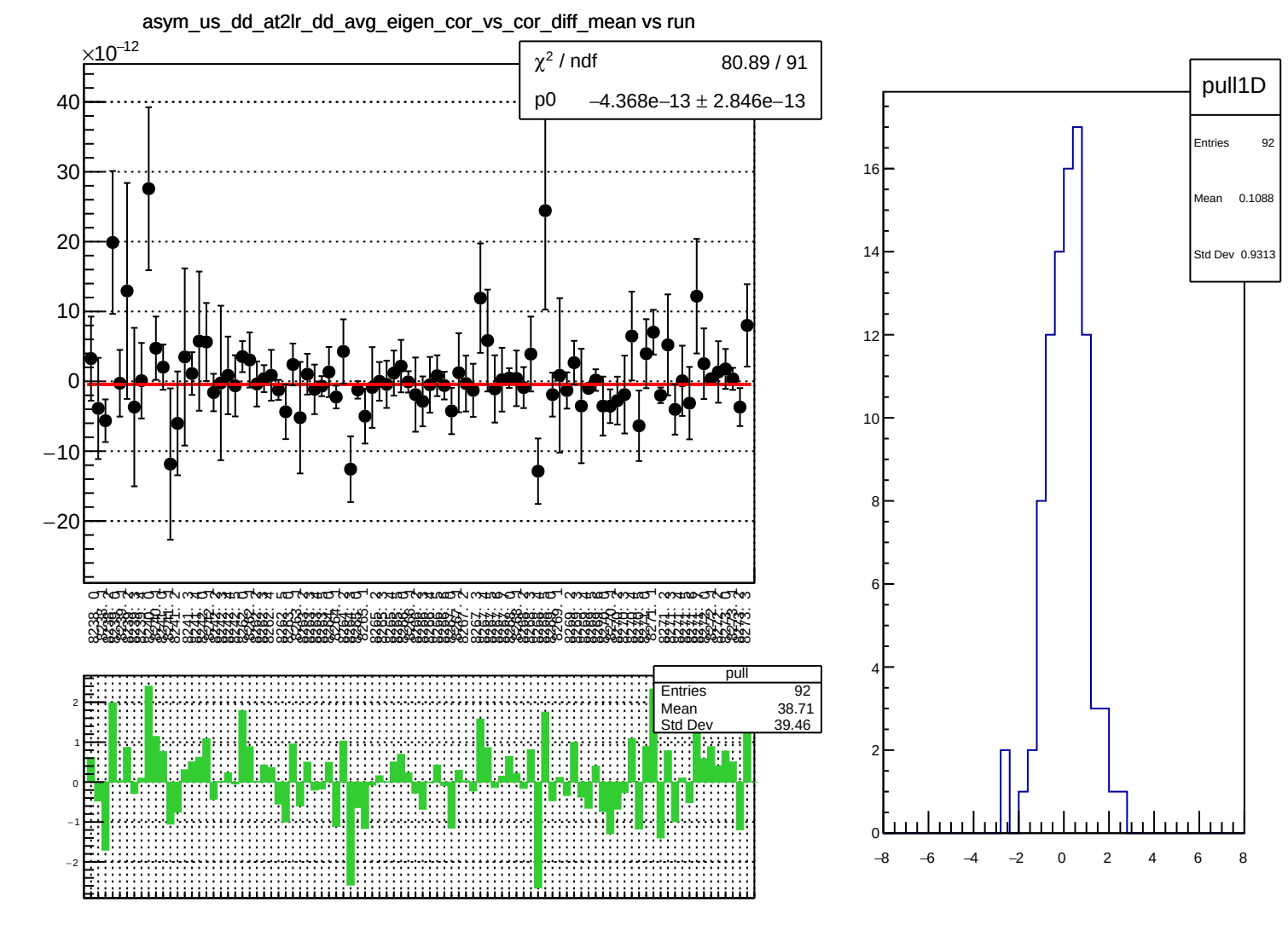

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.06 / 91
p0 −0.0468 ± 0.08352
pull
Entries 92
Mean 122.5
Std Dev 0
pull1D
Entries 92
Mean −0.01053
Std Dev 1.011

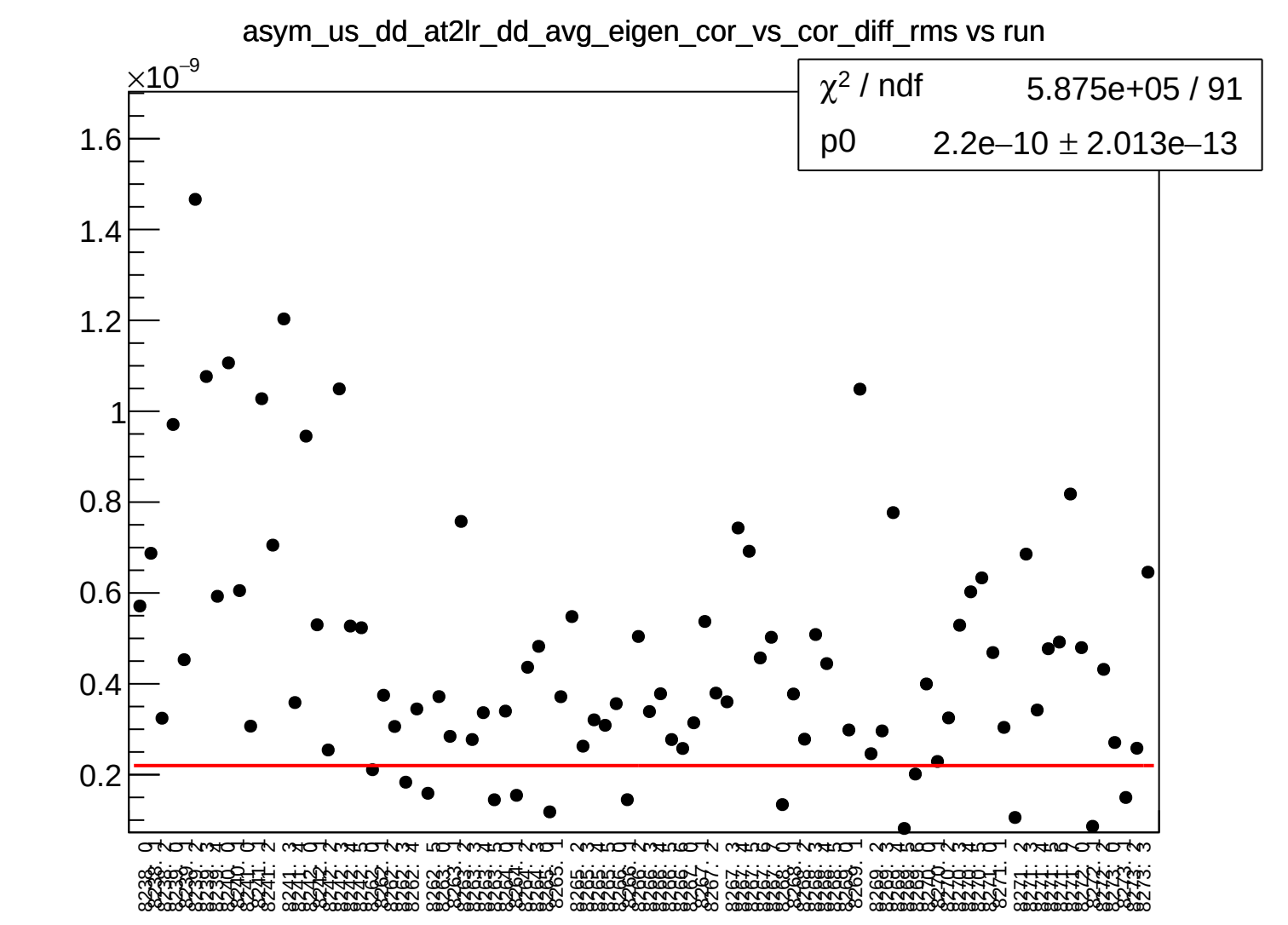

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.633e+05 / 91
p0 75.15 ± 0.05906
160
140
120
100
80
60
40

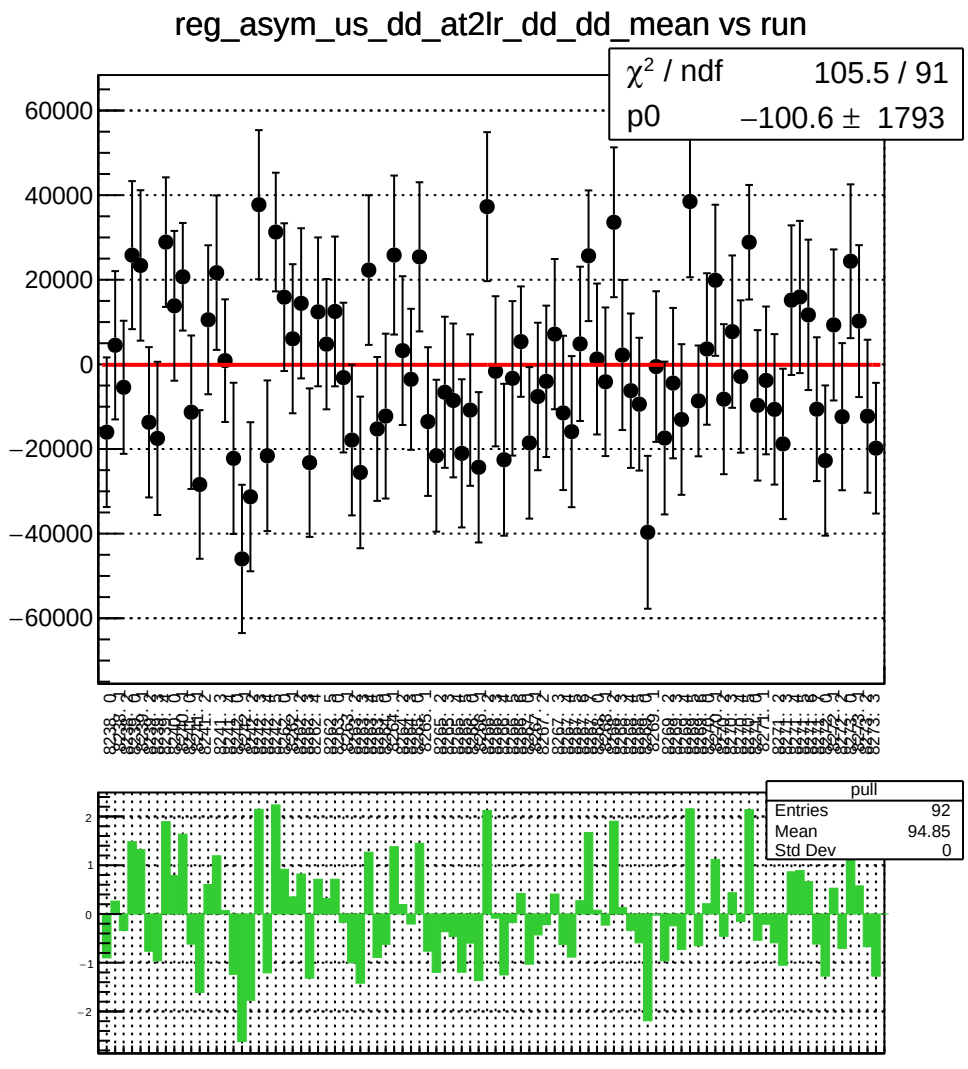

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.06 / 91
p0 −0.0468 ± 0.08352
pull
Entries 92
Mean 122.5
Std Dev 0

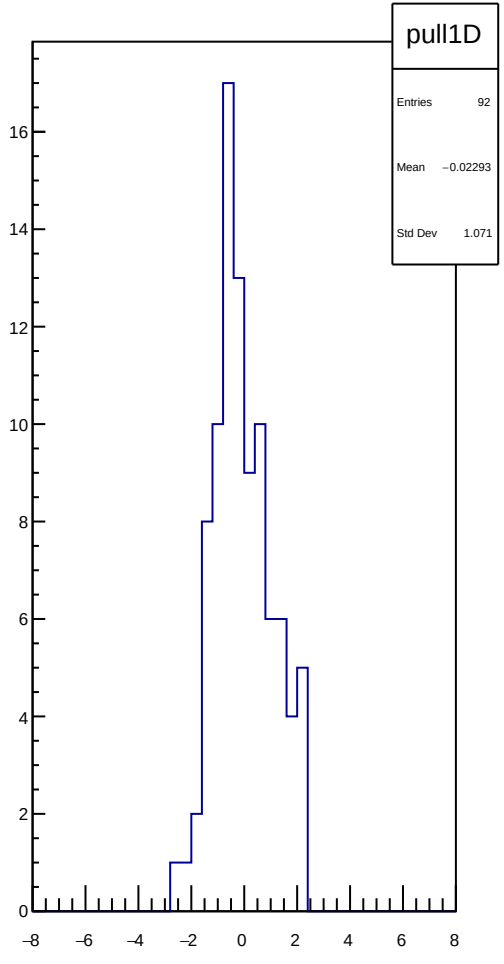

pull1D
Entries 92
Mean −0.01053
Std Dev 1.011

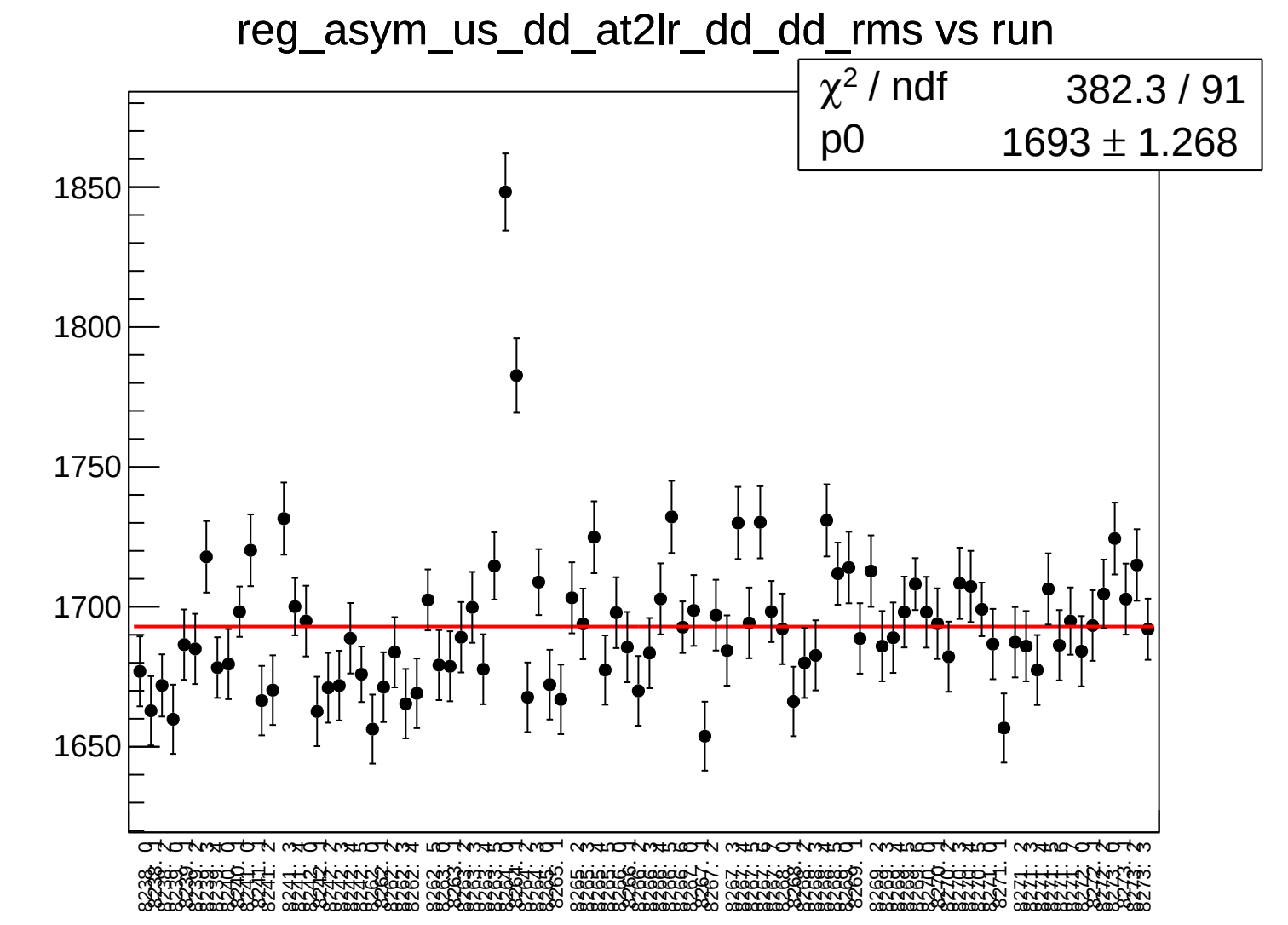

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.633e+05 / 91
p0 75.15 ± 0.05906
160
140
120
100
80
60
40

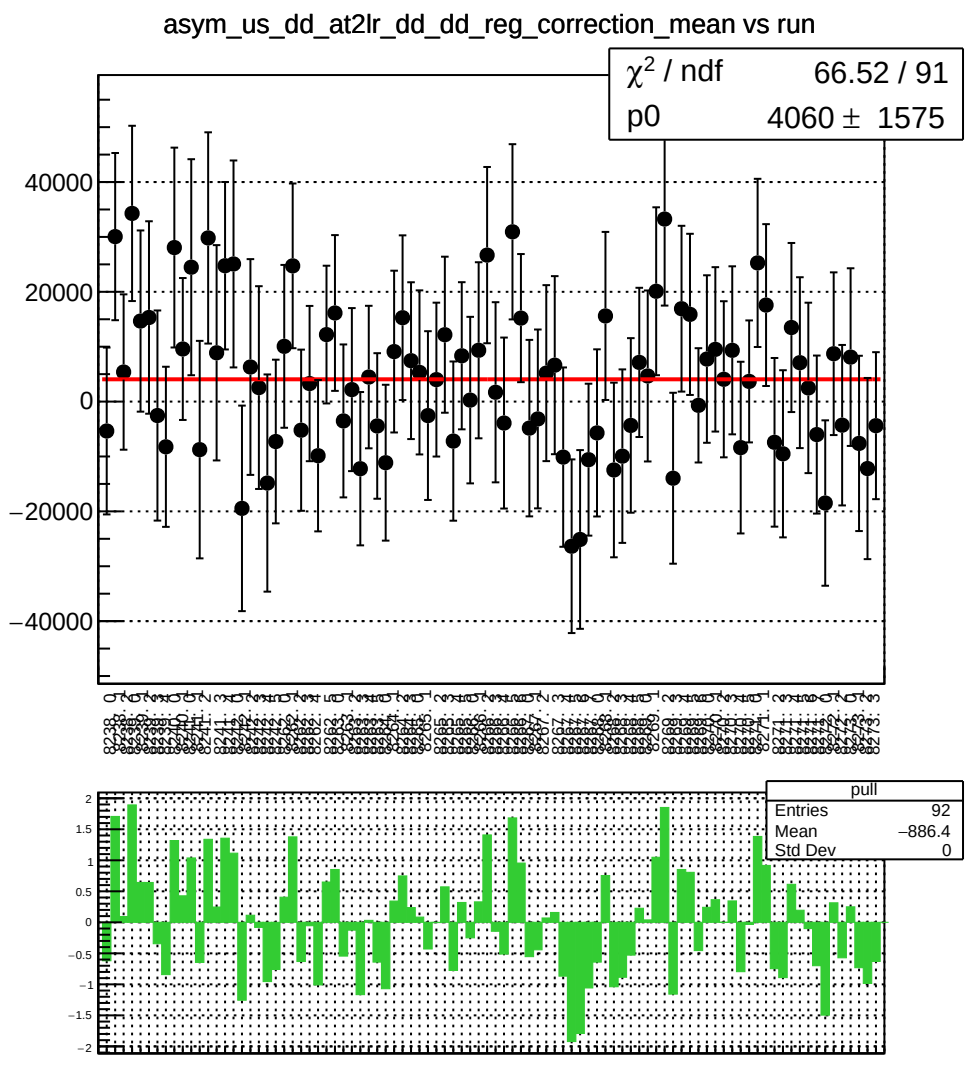

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.89 / 91
p0 −4.368e−13 ± 2.846e−13
pull
Entries 92
Mean 38.71
Std Dev 39.46
pull1D
Entries 92
Mean 0.1088
Std Dev 0.9313

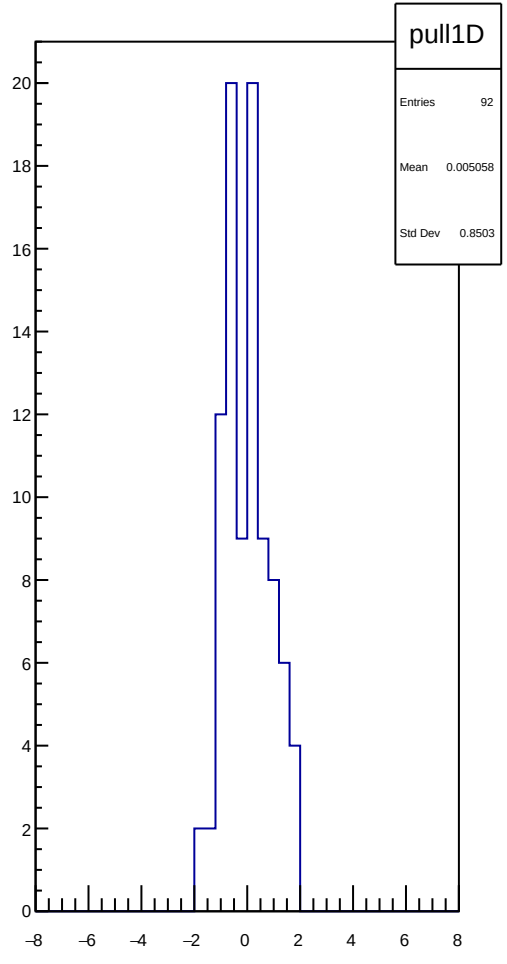

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.875e+05 / 91
p0 2.2e−10 ± 2.013e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

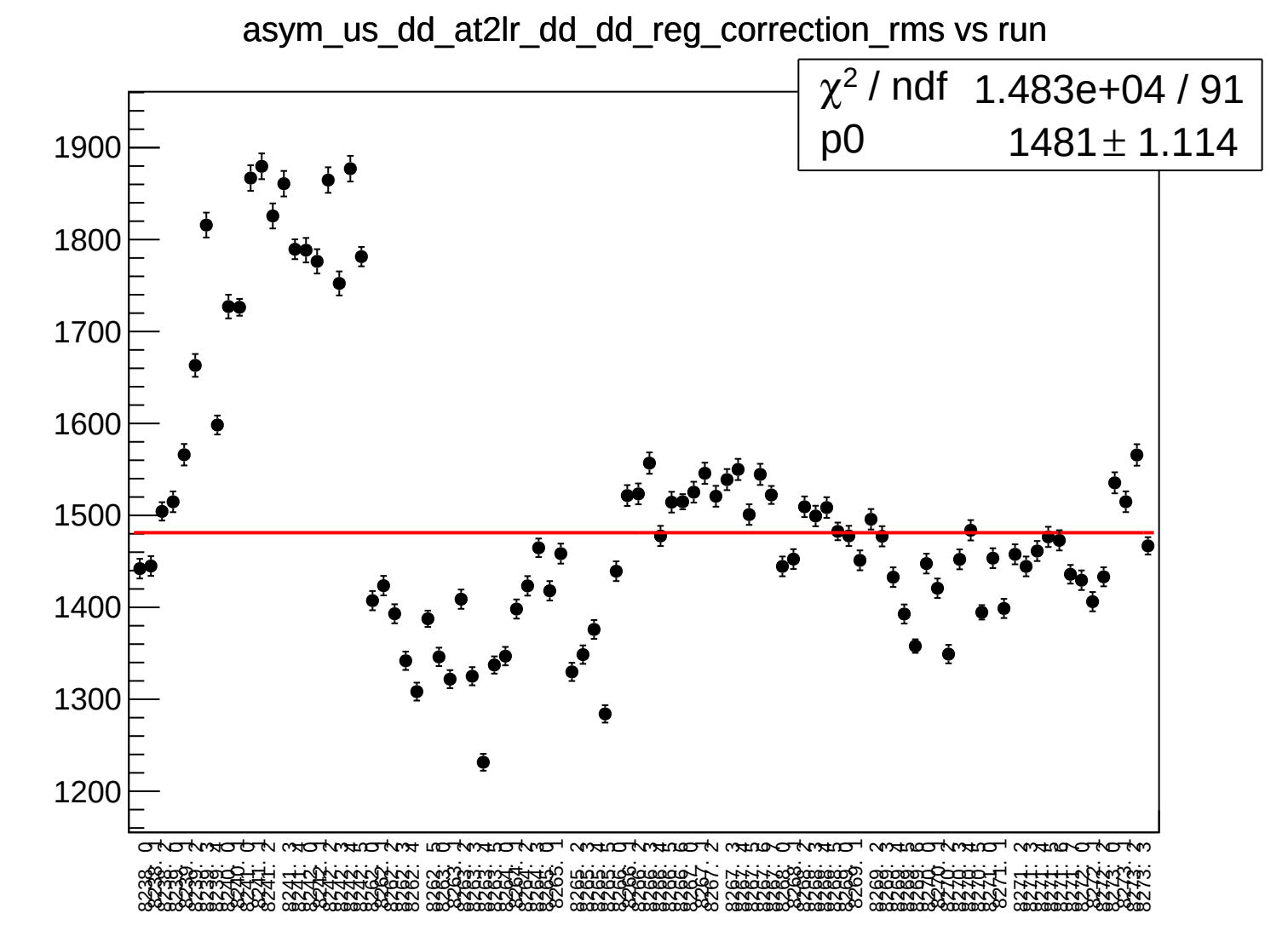

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 105.5 / 91
p0 −100.6 ± 1793
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 94.85
Std Dev 0
2
1
0
−1
−2

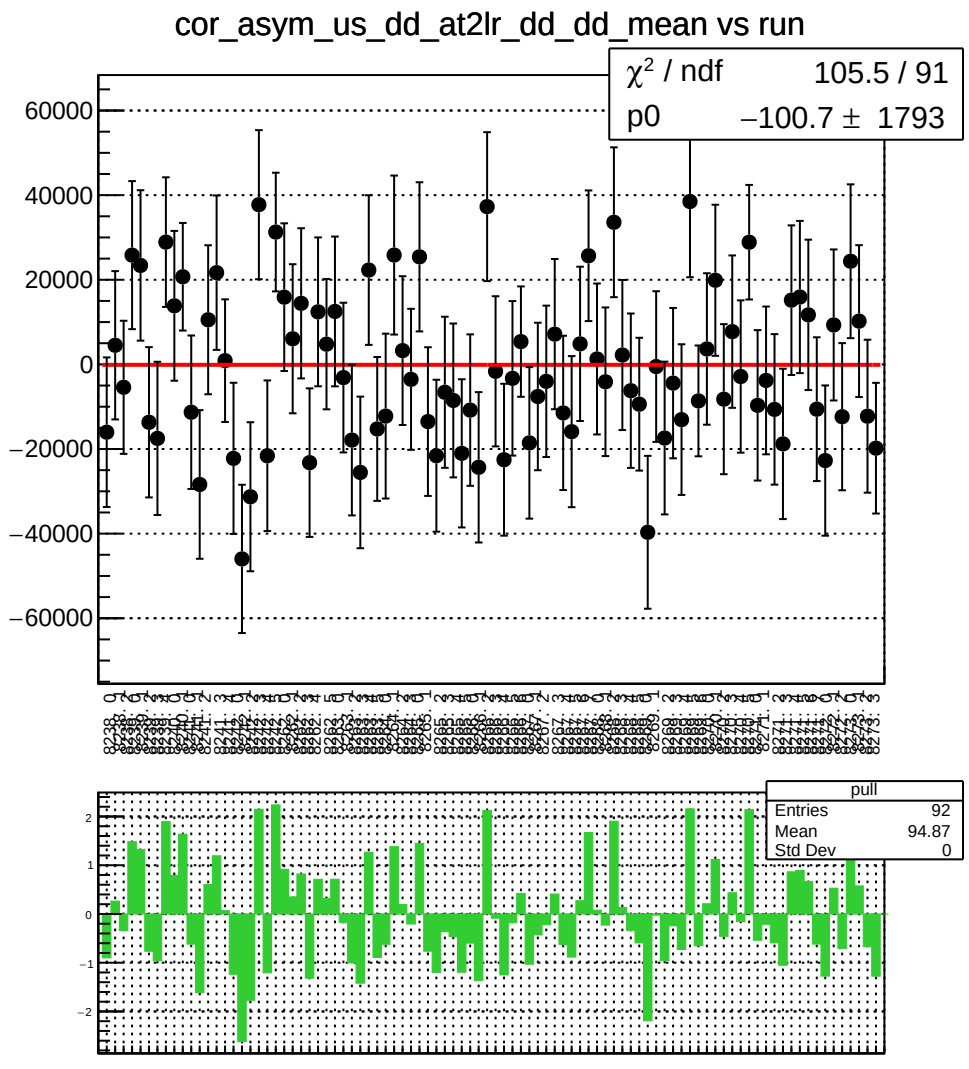

pull1D
Entries 92
Mean −0.02293
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

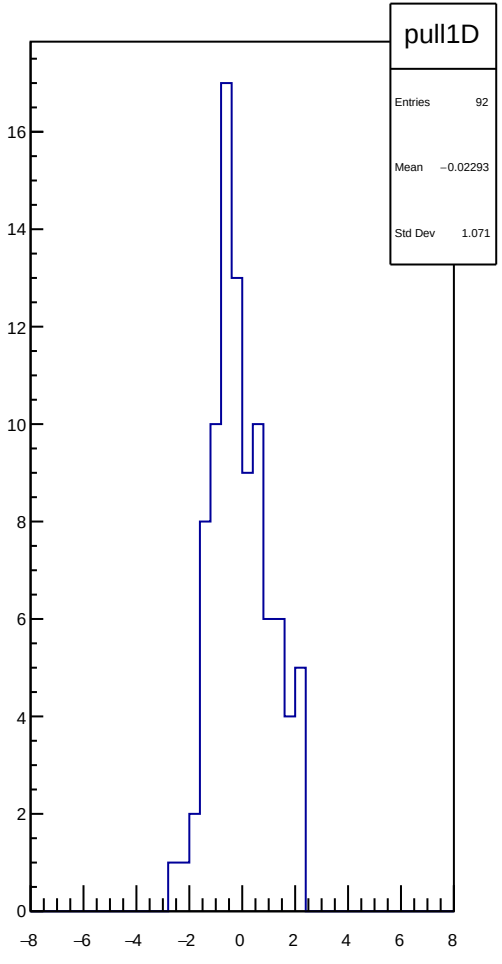

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 382.3 / 91
p0 1693 ± 1.268
1850
1800
1750
1700
1650

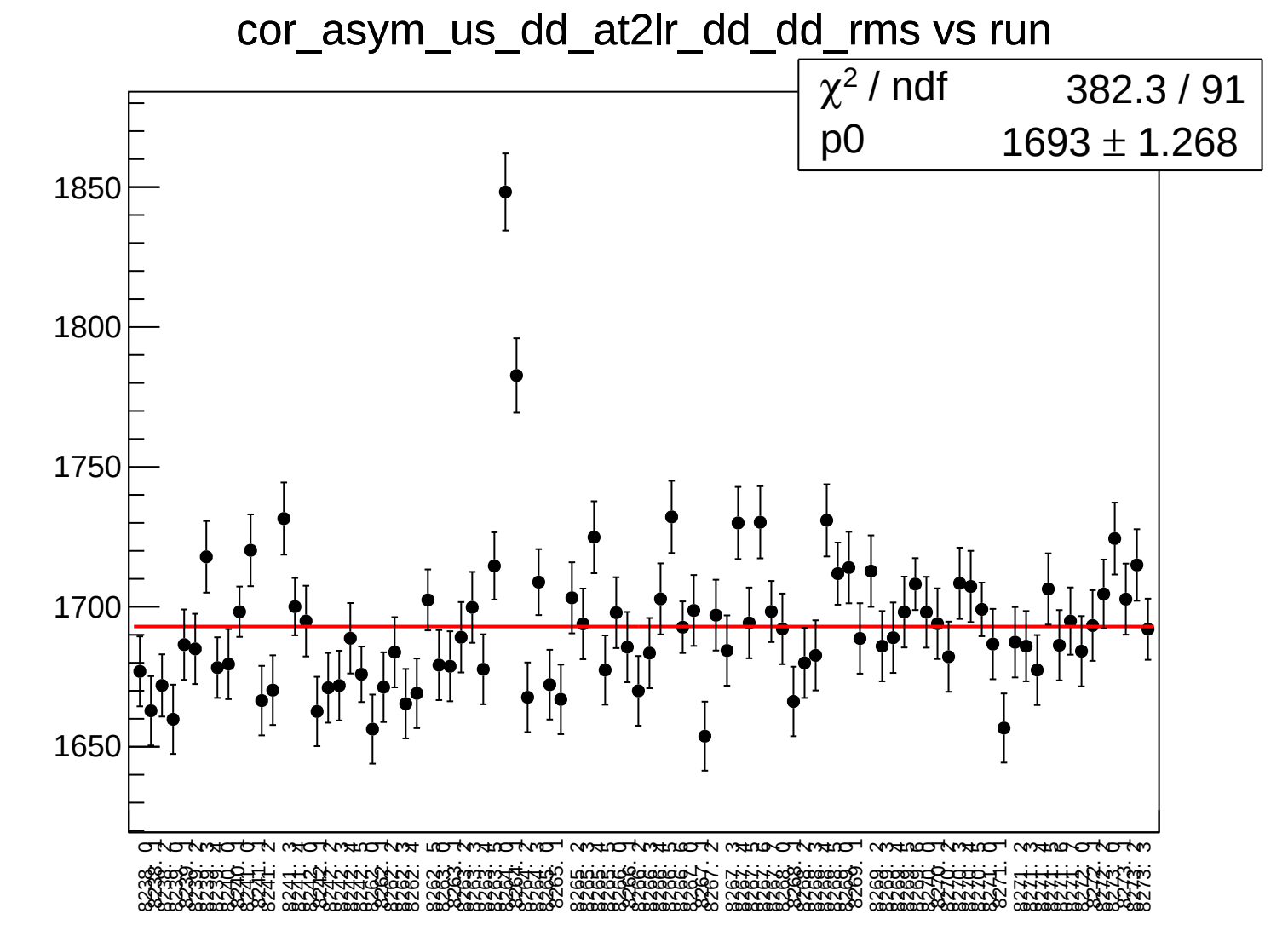

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 66.52 / 91
p0 4060 ± 1575
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −886.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

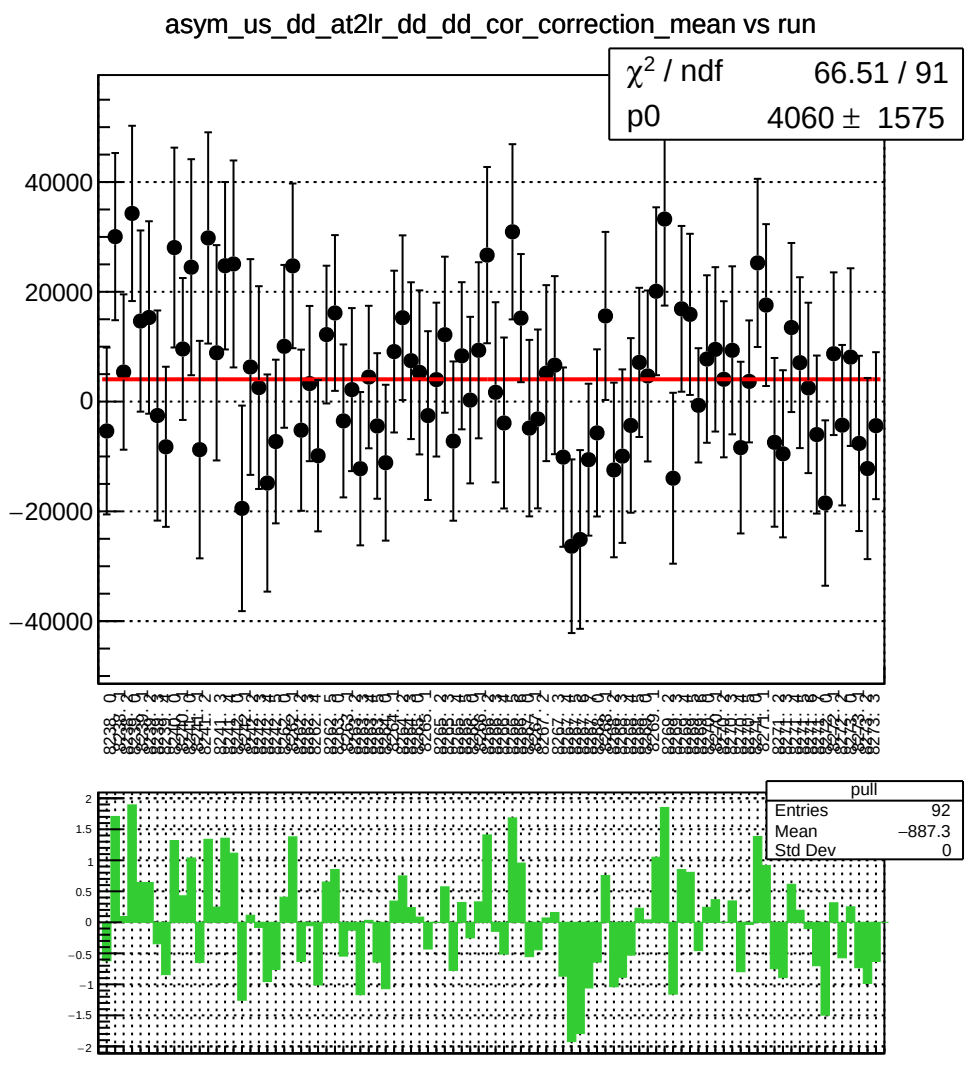

pull1D
Entries 92
Mean 0.005058
Std Dev 0.8503
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

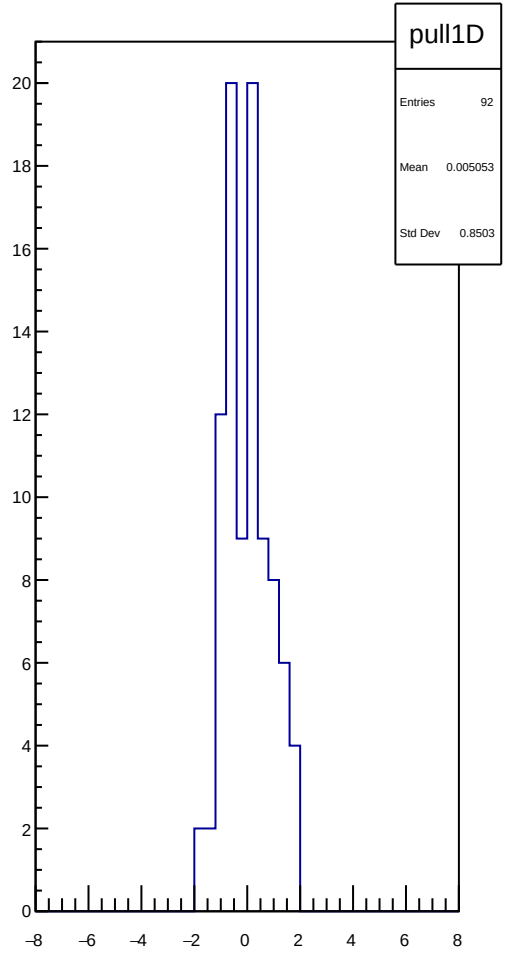

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.483e+04 / 91
p0 1481 ± 1.114
1900
1800
1700
1600
1500
1400
1300
1200

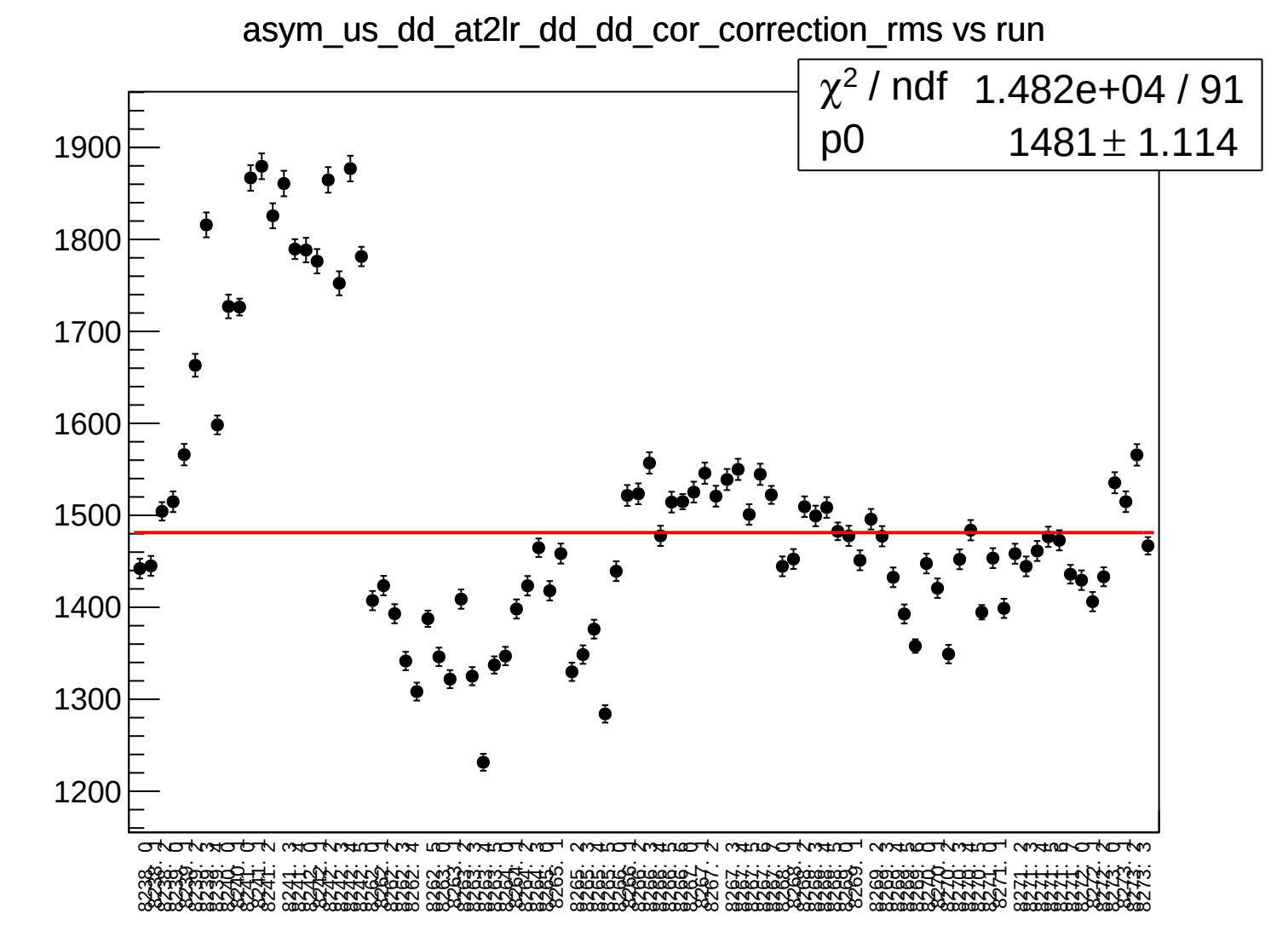

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 105.5 / 91
p0 −100.7 ± 1793
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 94.87
Std Dev 0
2
1
0
−1
−2

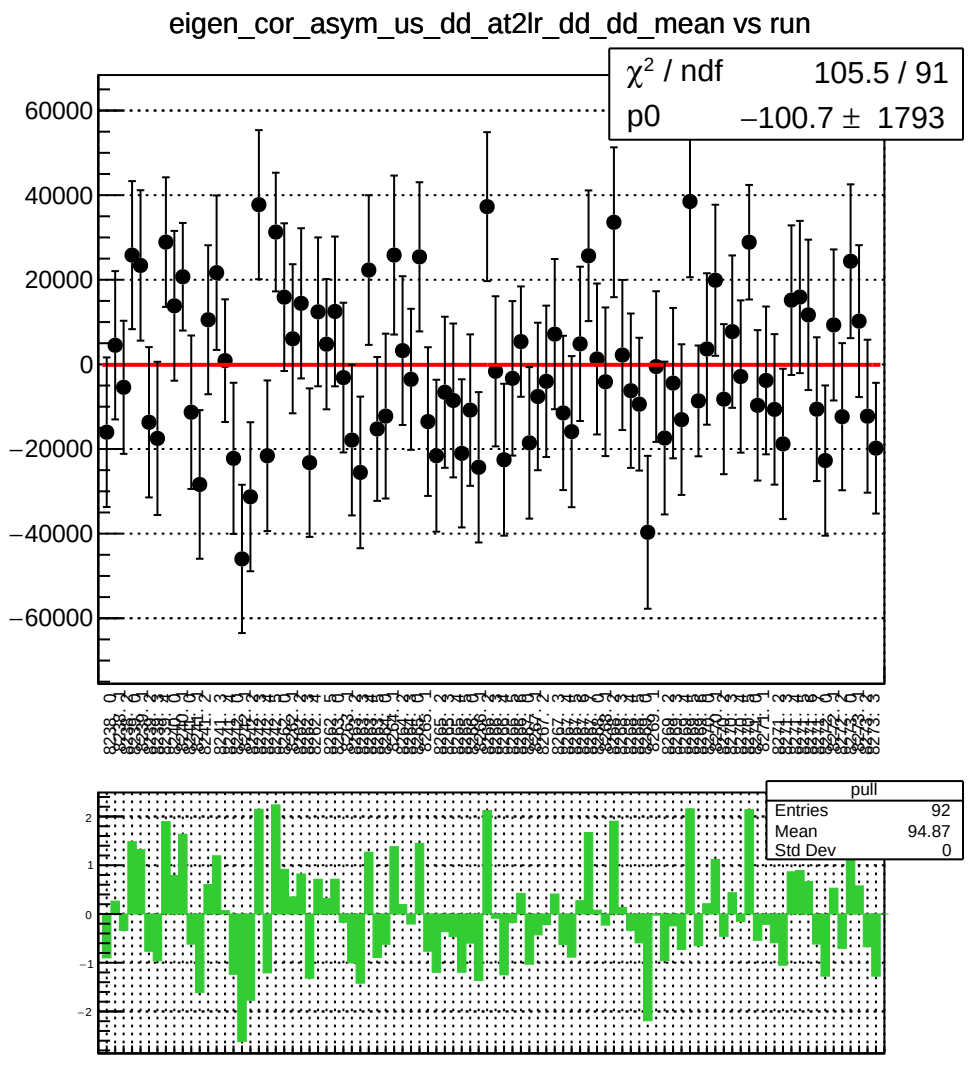

pull1D
Entries 92
Mean −0.02293
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

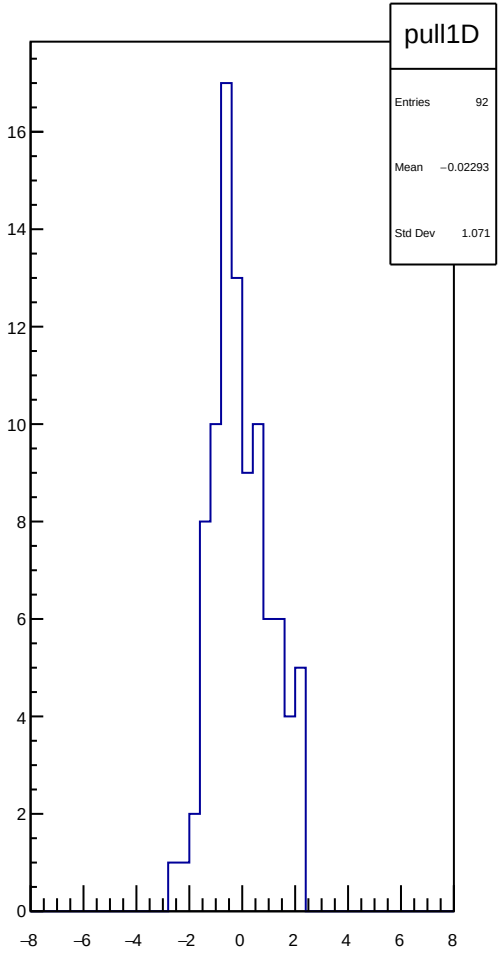

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 382.3 / 91
p0 1693 ± 1.268
1850
1800
1750
1700
1650

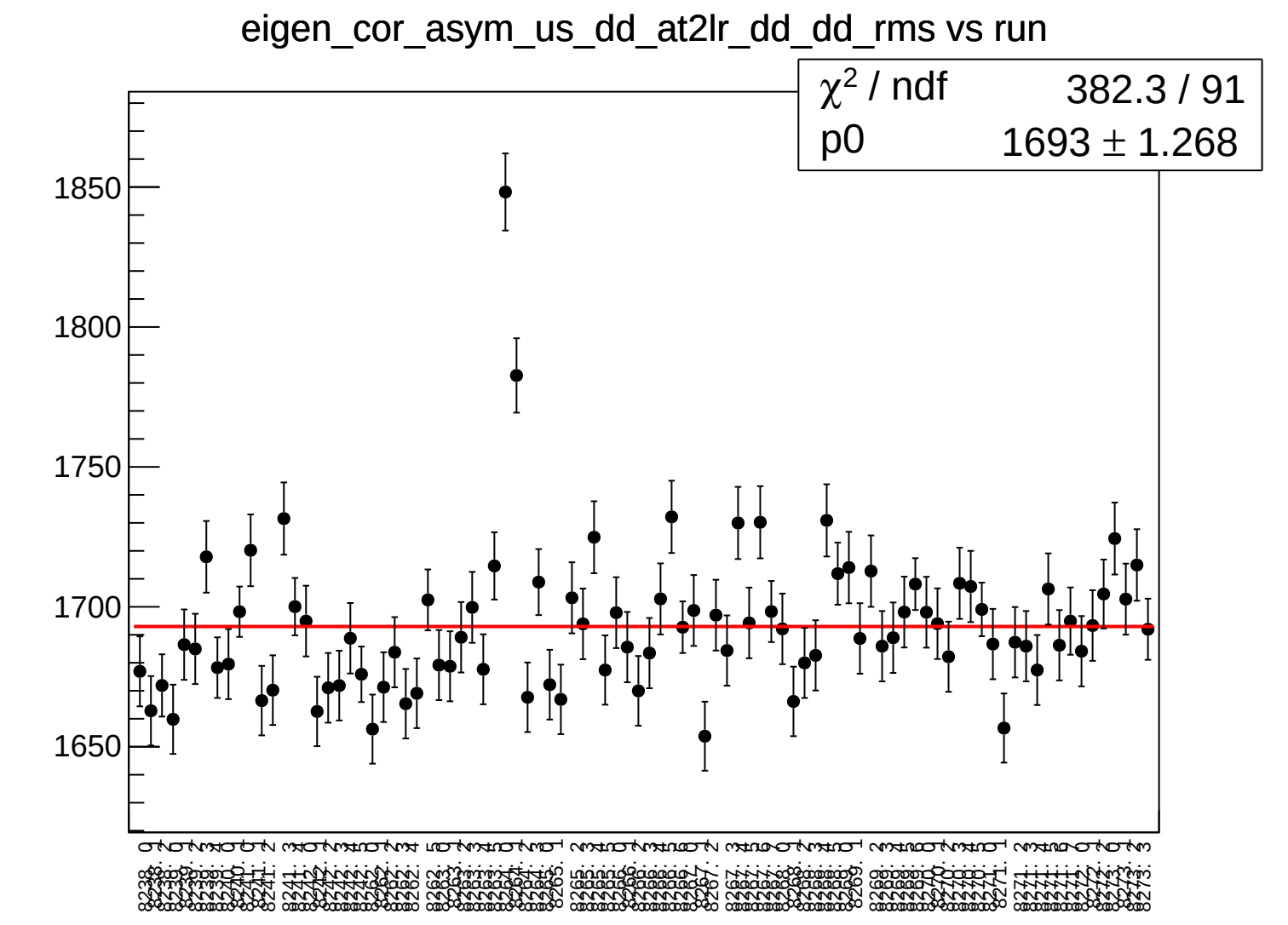

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 66.51 / 91
p0 4060 ± 1575
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −887.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

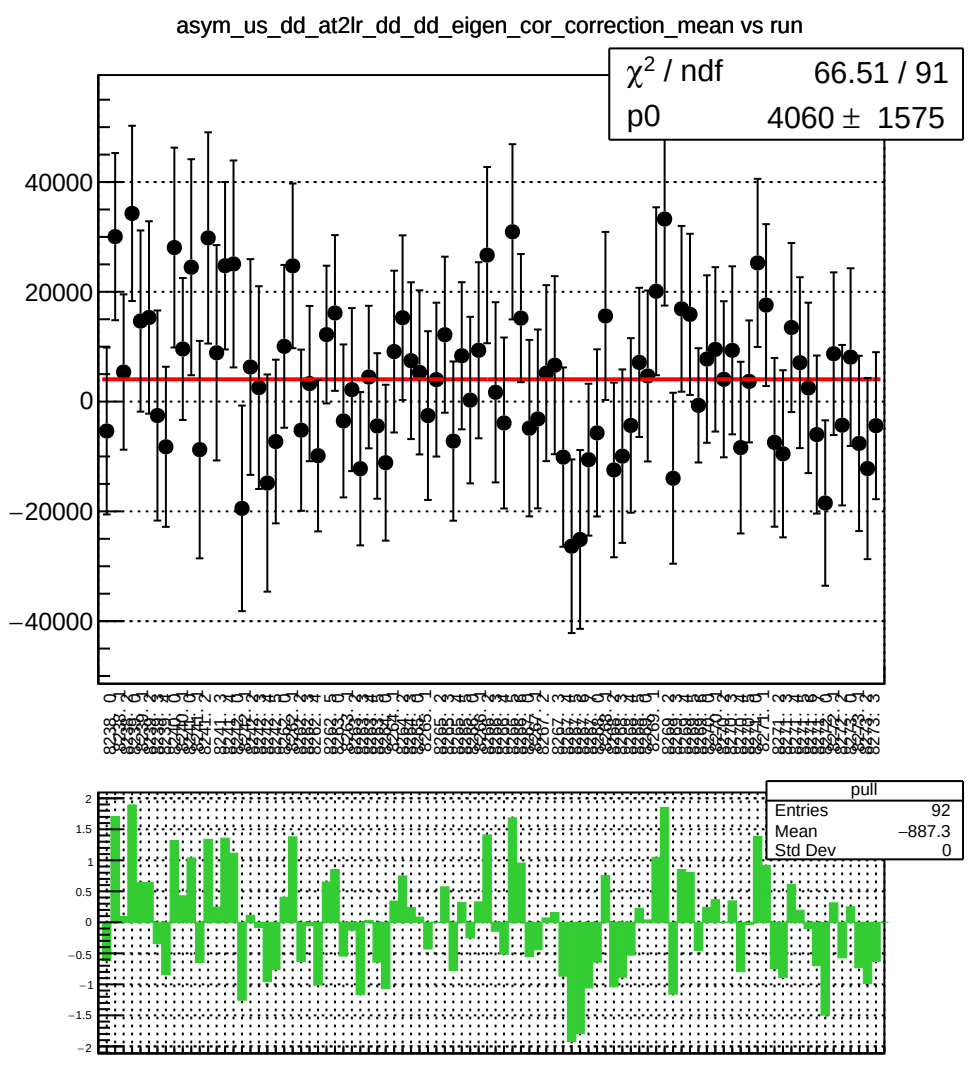

pull1D
Entries 92
Mean 0.005053
Std Dev 0.8503
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

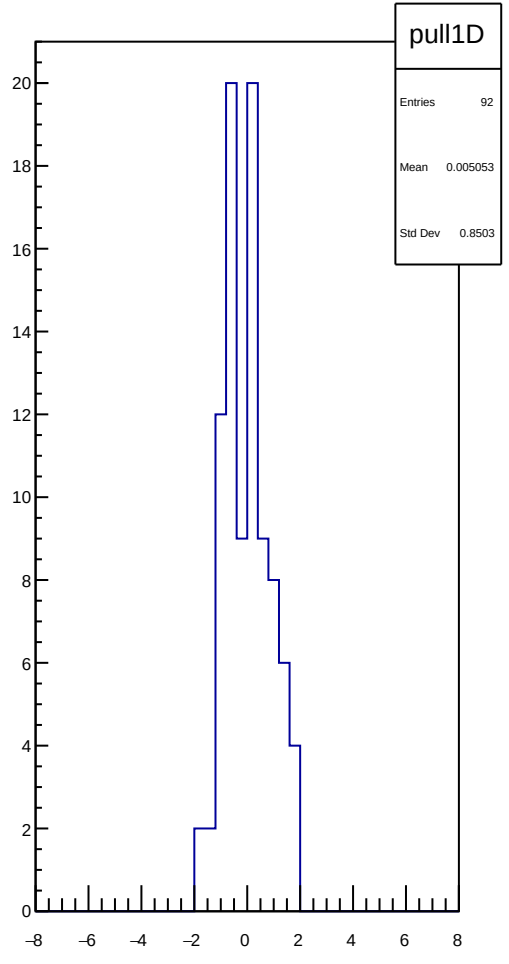

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.482e+04 / 91
p0 1481 ± 1.114
1900
1800
1700
1600
1500
1400
1300
1200

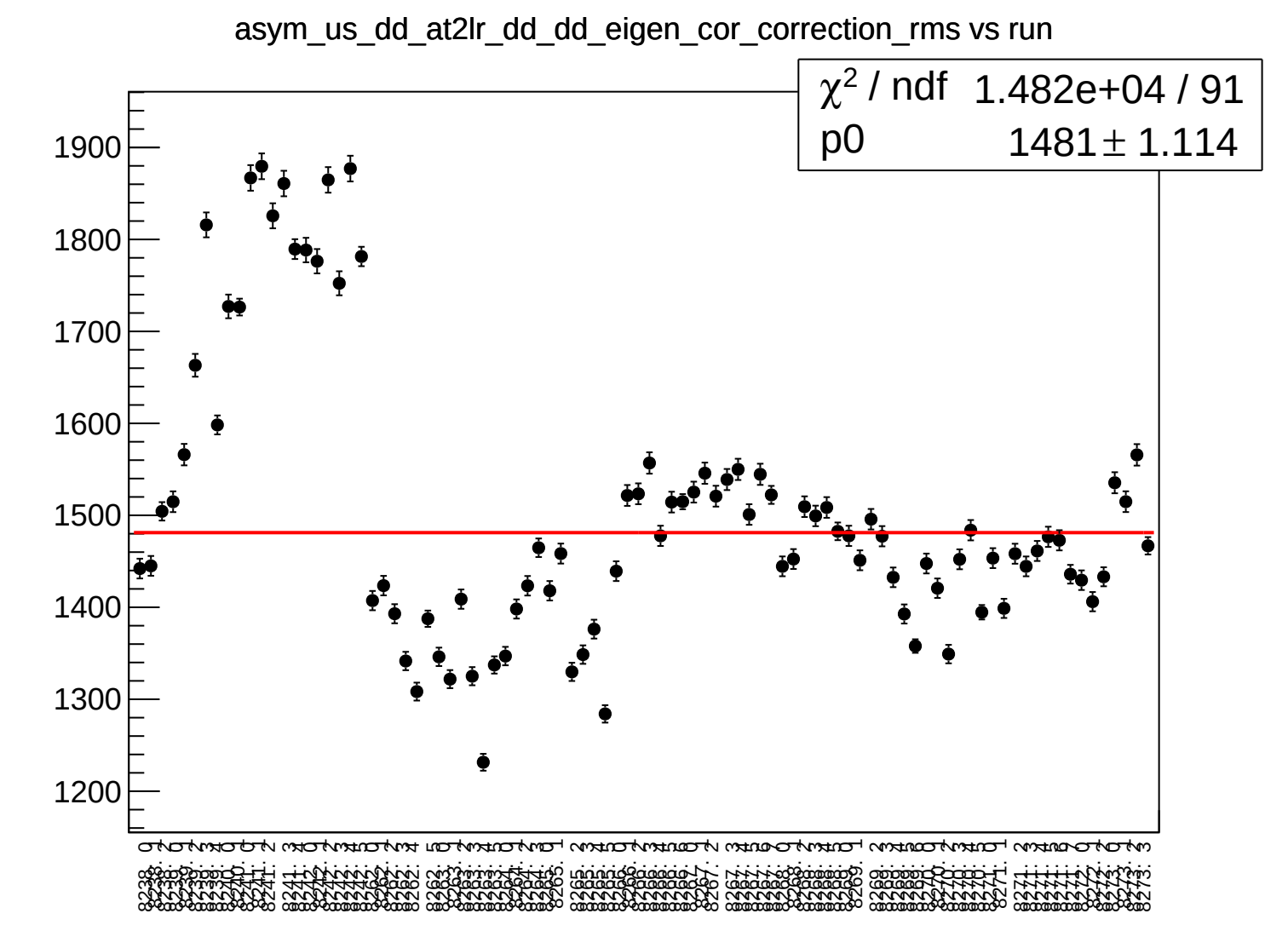

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 105.5 / 91
p0 −100.7 ± 1793
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 94.87
Std Dev 0
2
1
0
−1
−2

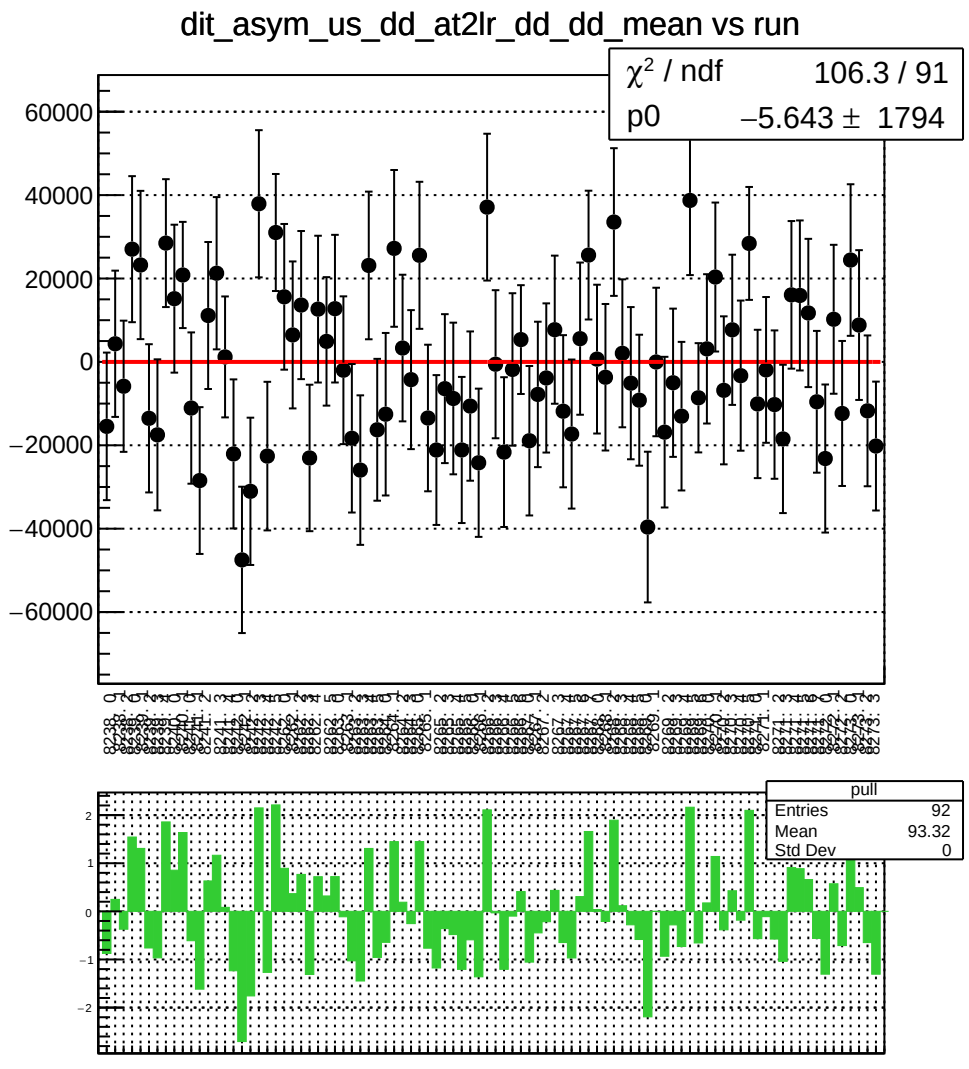

pull1D
Entries 92
Mean −0.02293
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

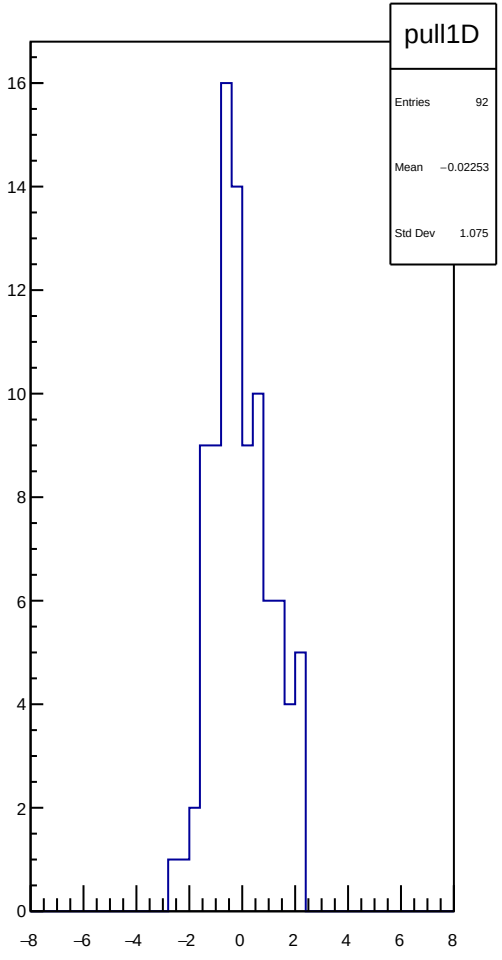

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 382.3 / 91
p0 1693 ± 1.268
1850
1800
1750
1700
1650

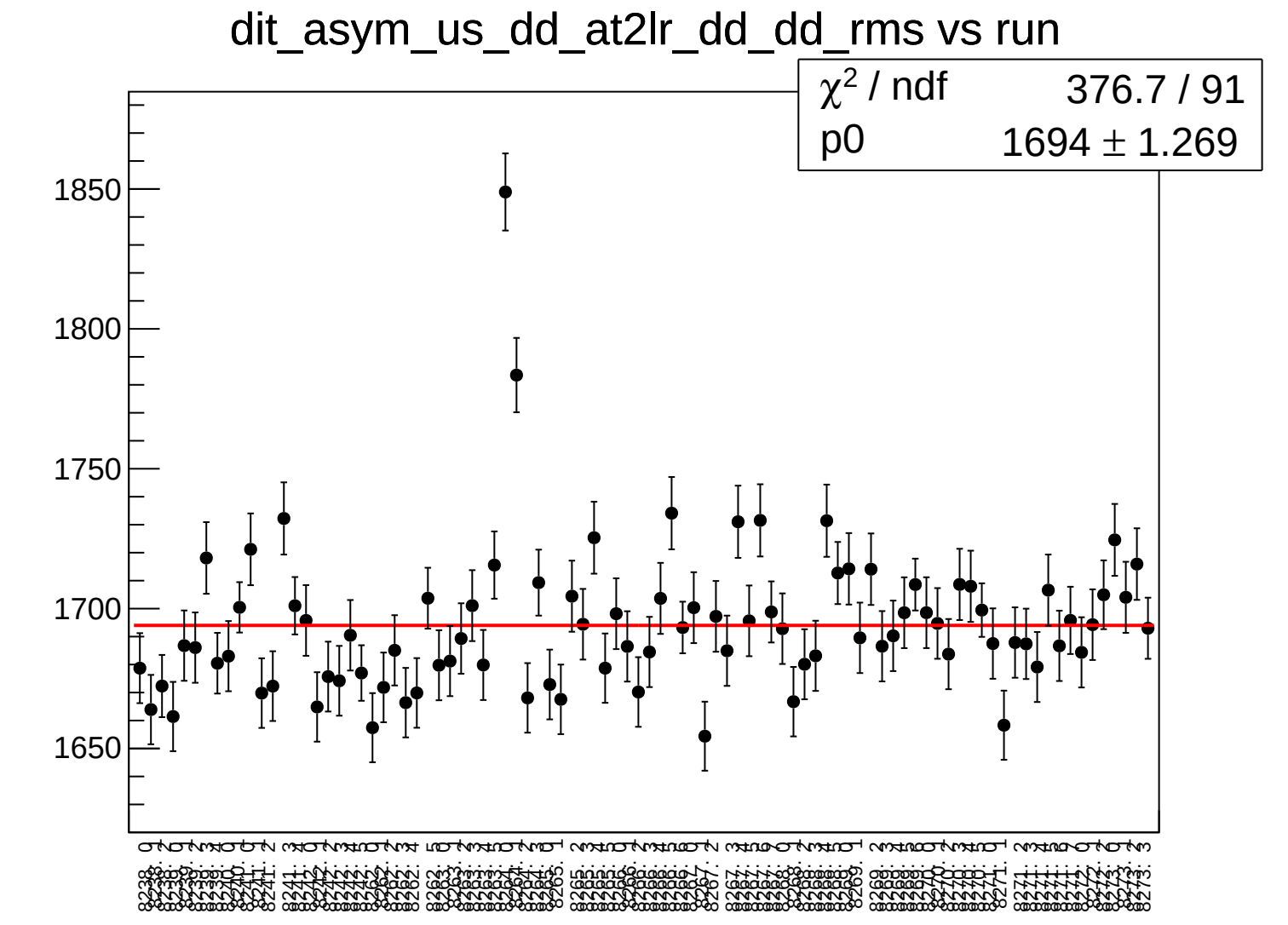

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 66.51 / 91
p0 4060 ± 1575
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −887.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

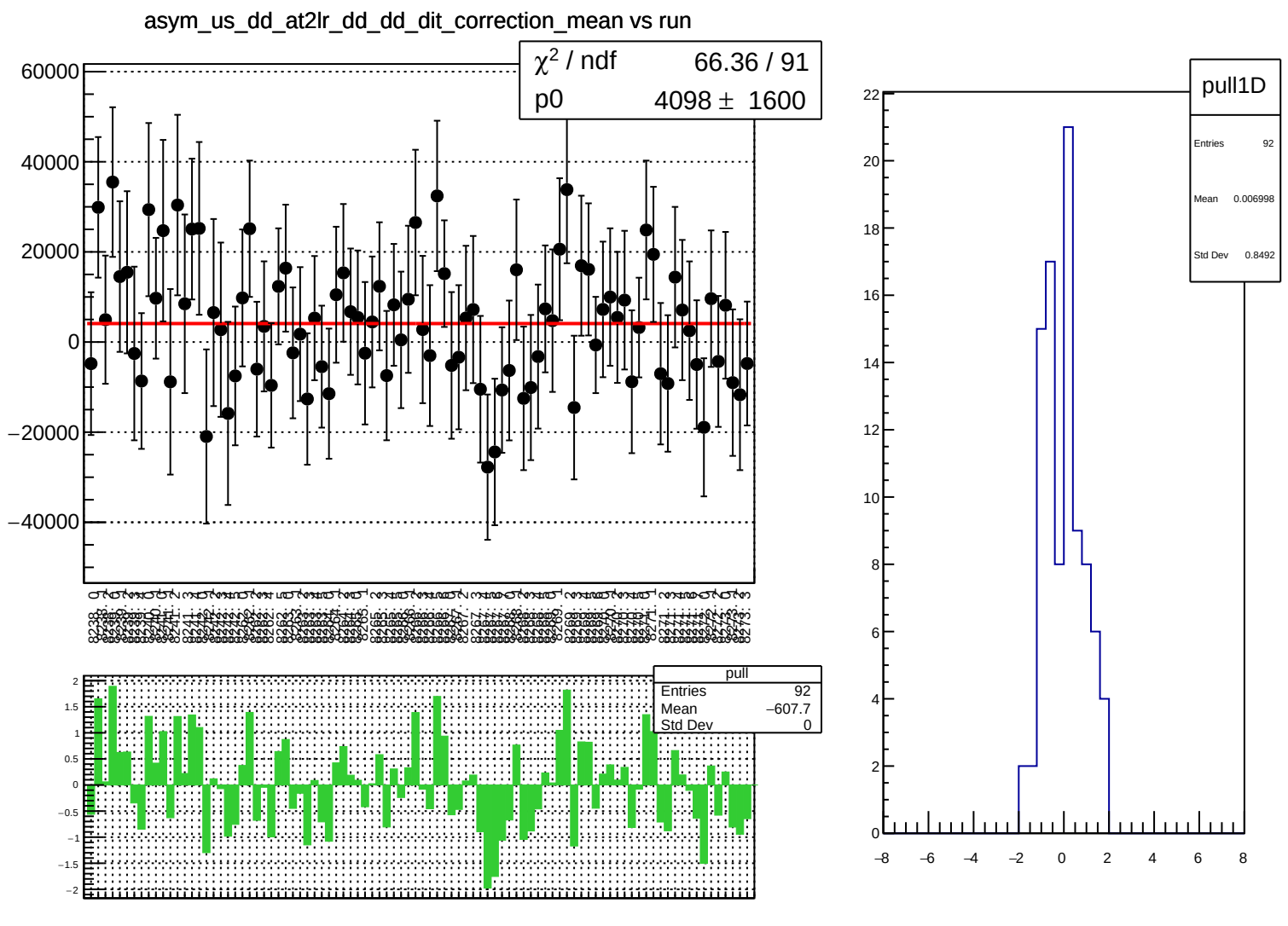

pull1D
Entries 92
Mean 0.005053
Std Dev 0.8503
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

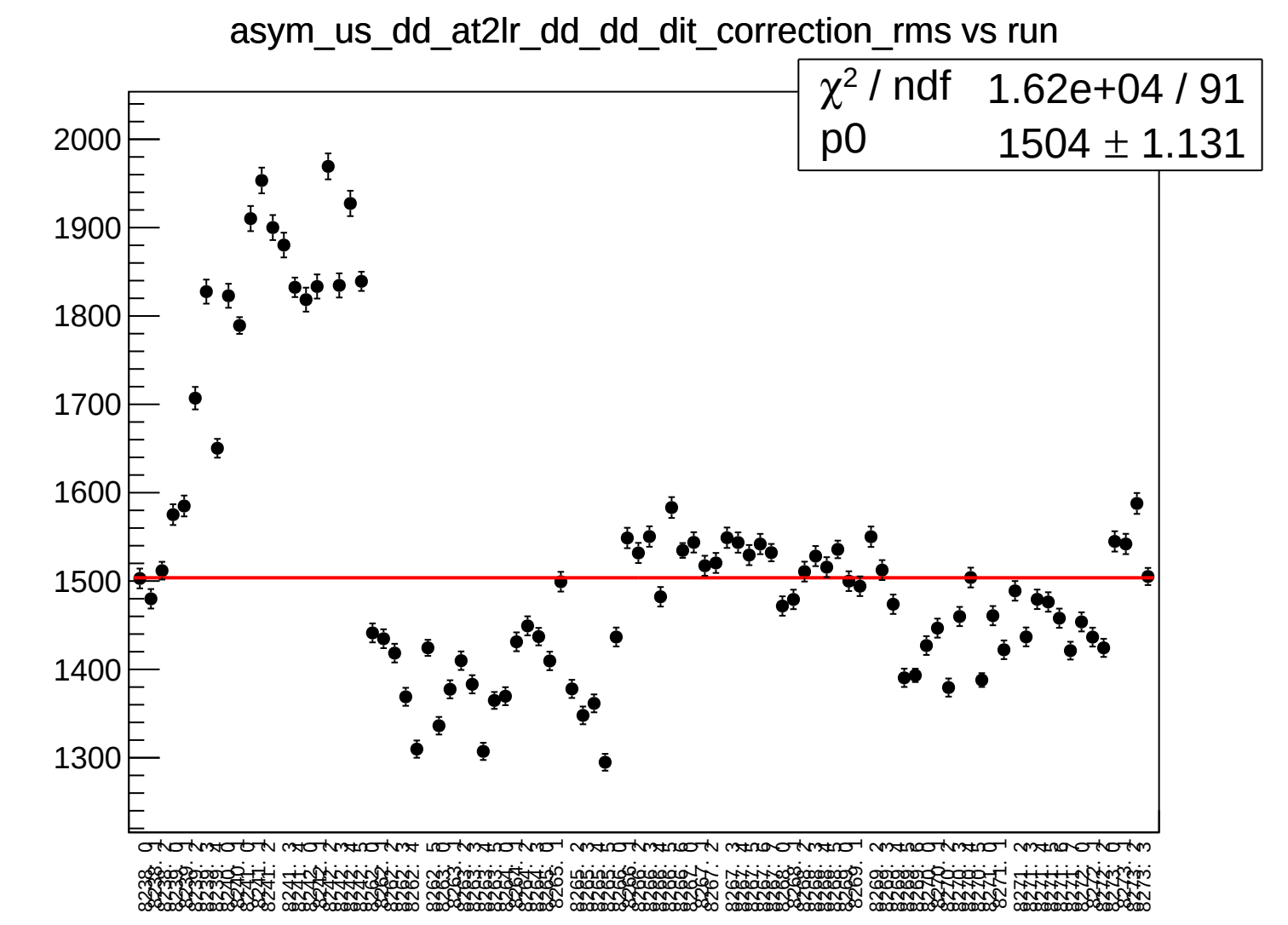

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.482e+04 / 91
p0 1481 ± 1.114
1900
1800
1700
1600
1500
1400
1300
1200

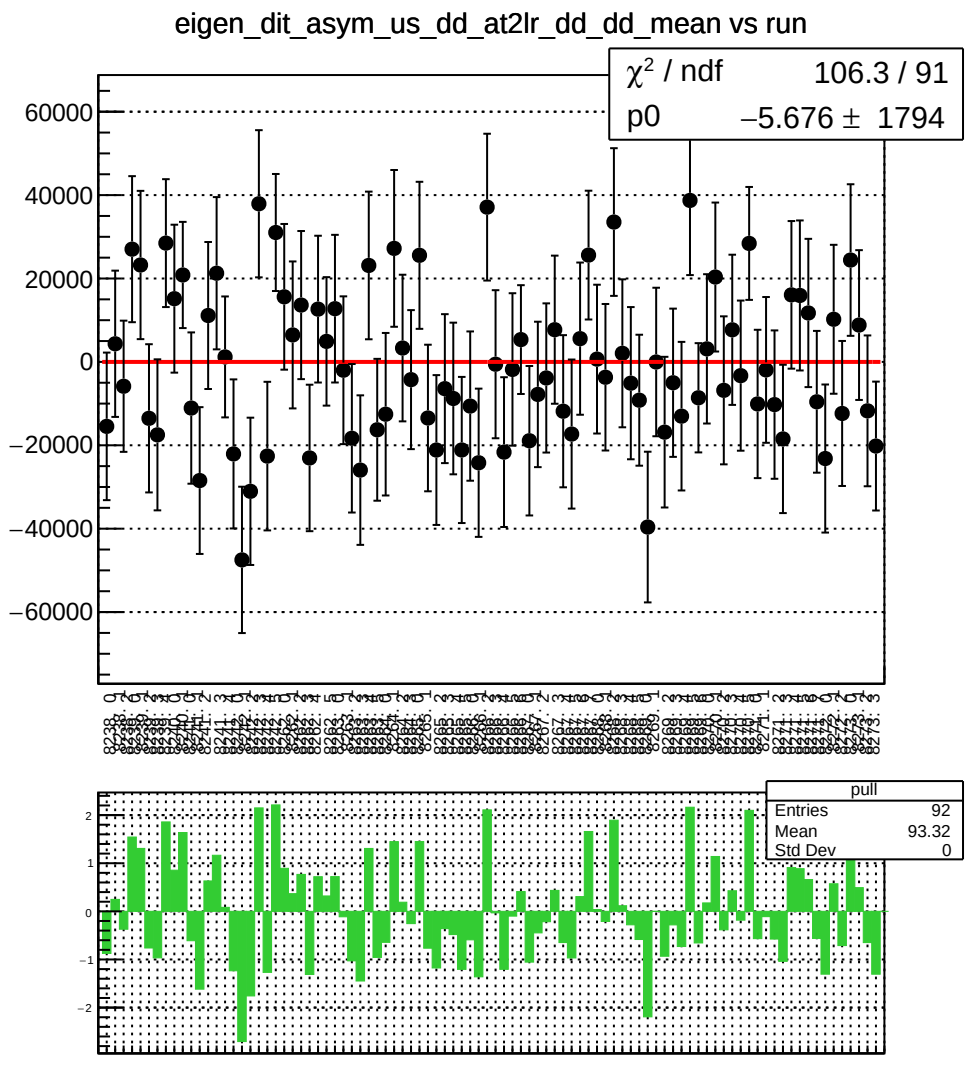

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 106.3 / 91
p0 −5.643 ± 1794
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 93.32
Std Dev 0
2
1
0
−1
−2

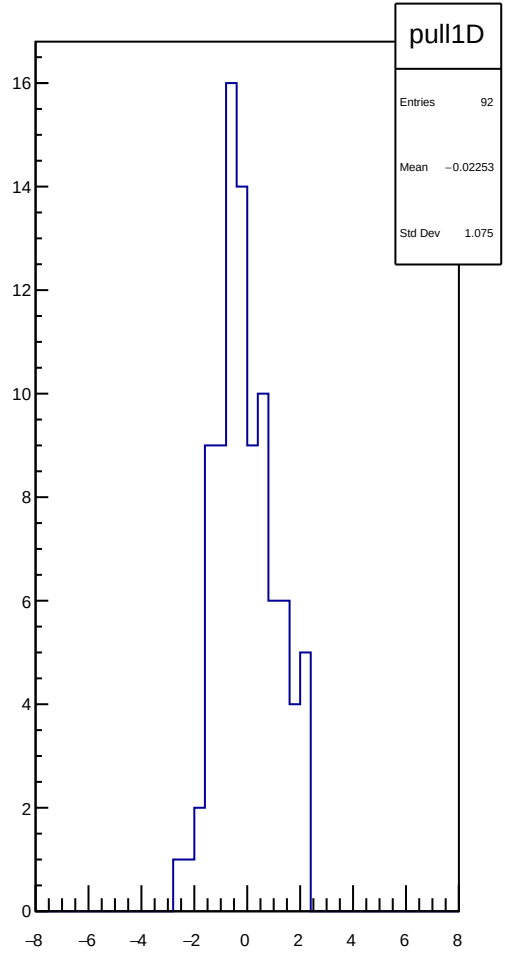

pull1D
Entries 92
Mean −0.02253
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

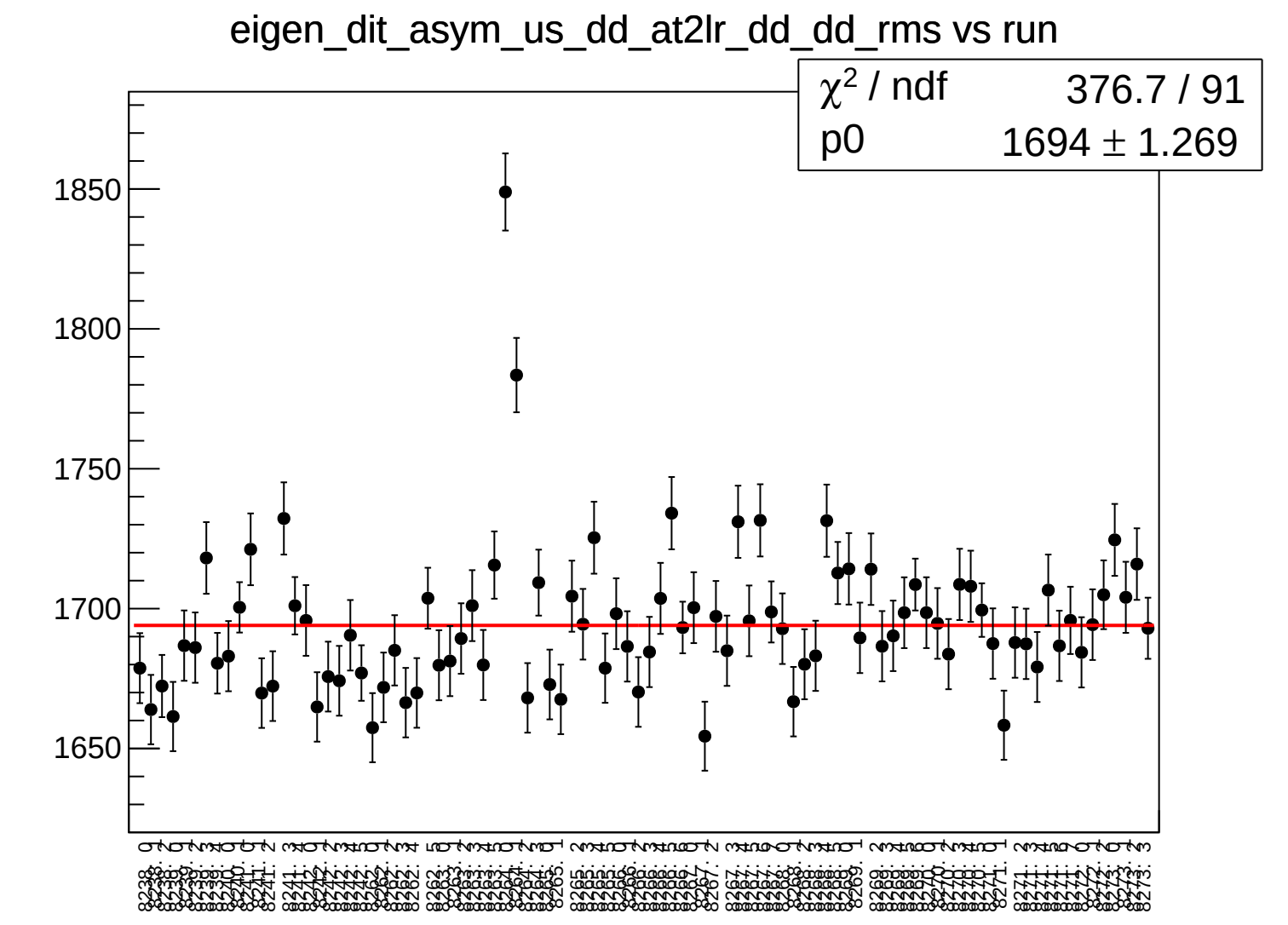

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 376.7 / 91
p0 1694 ± 1.269
1850
1800
1750
1700
1650

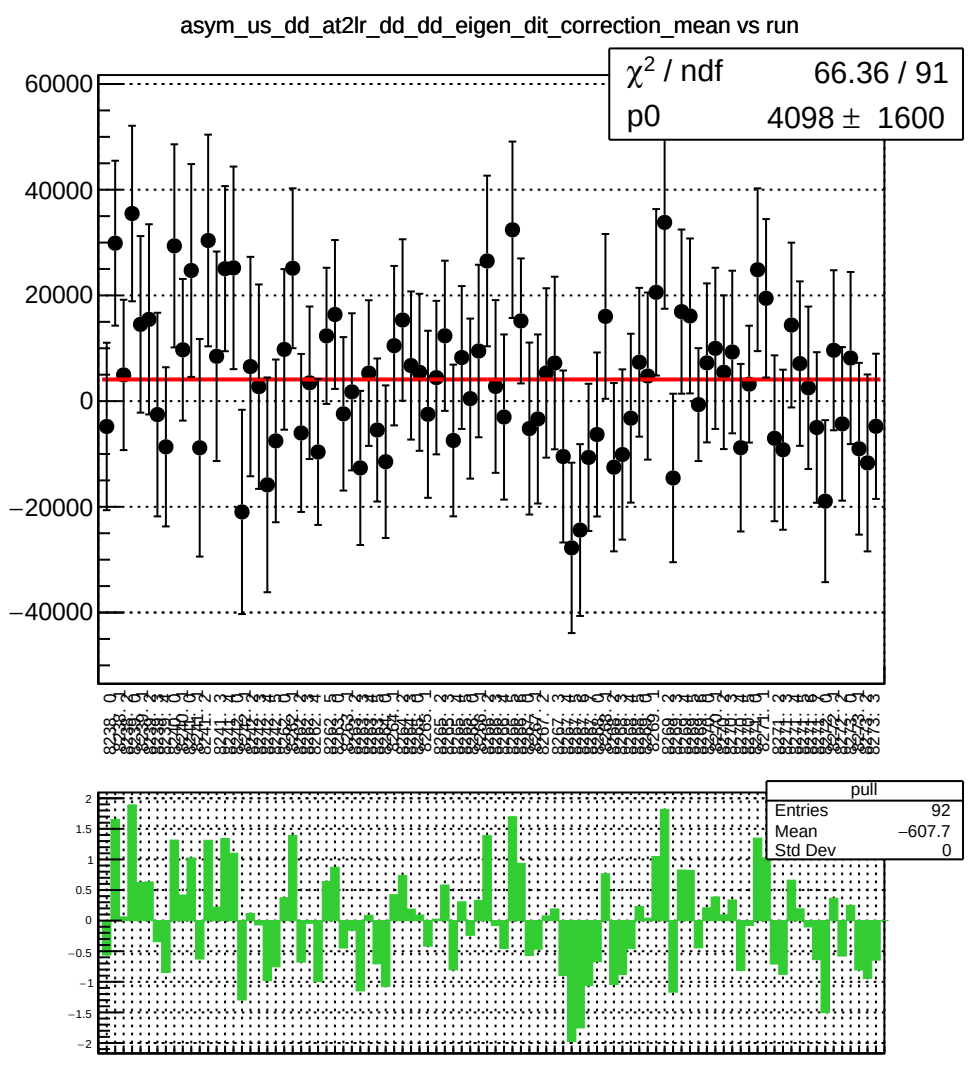

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 66.36 / 91
p0 4098 ± 1600
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −607.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.006998
Std Dev 0.8492
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

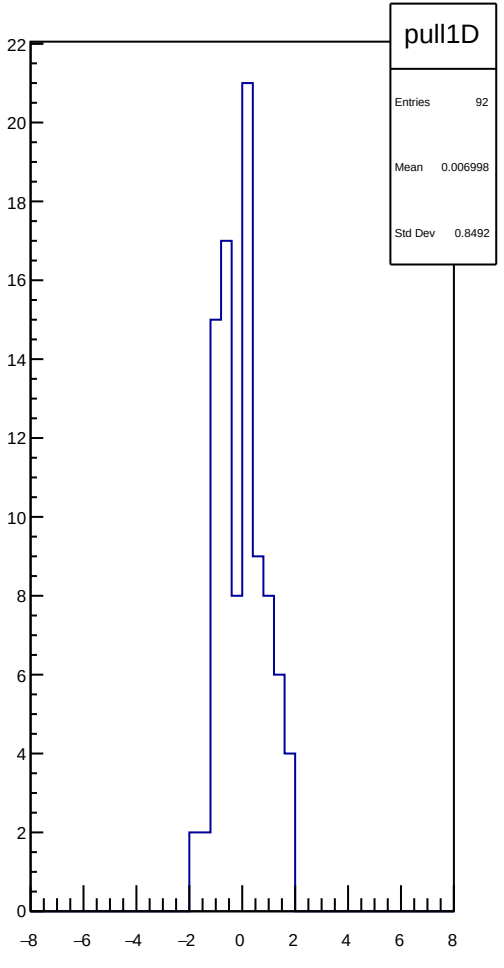

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.62e+04 / 91
p0 1504 ± 1.131
2000
1900
1800
1700
1600
1500
1400
1300

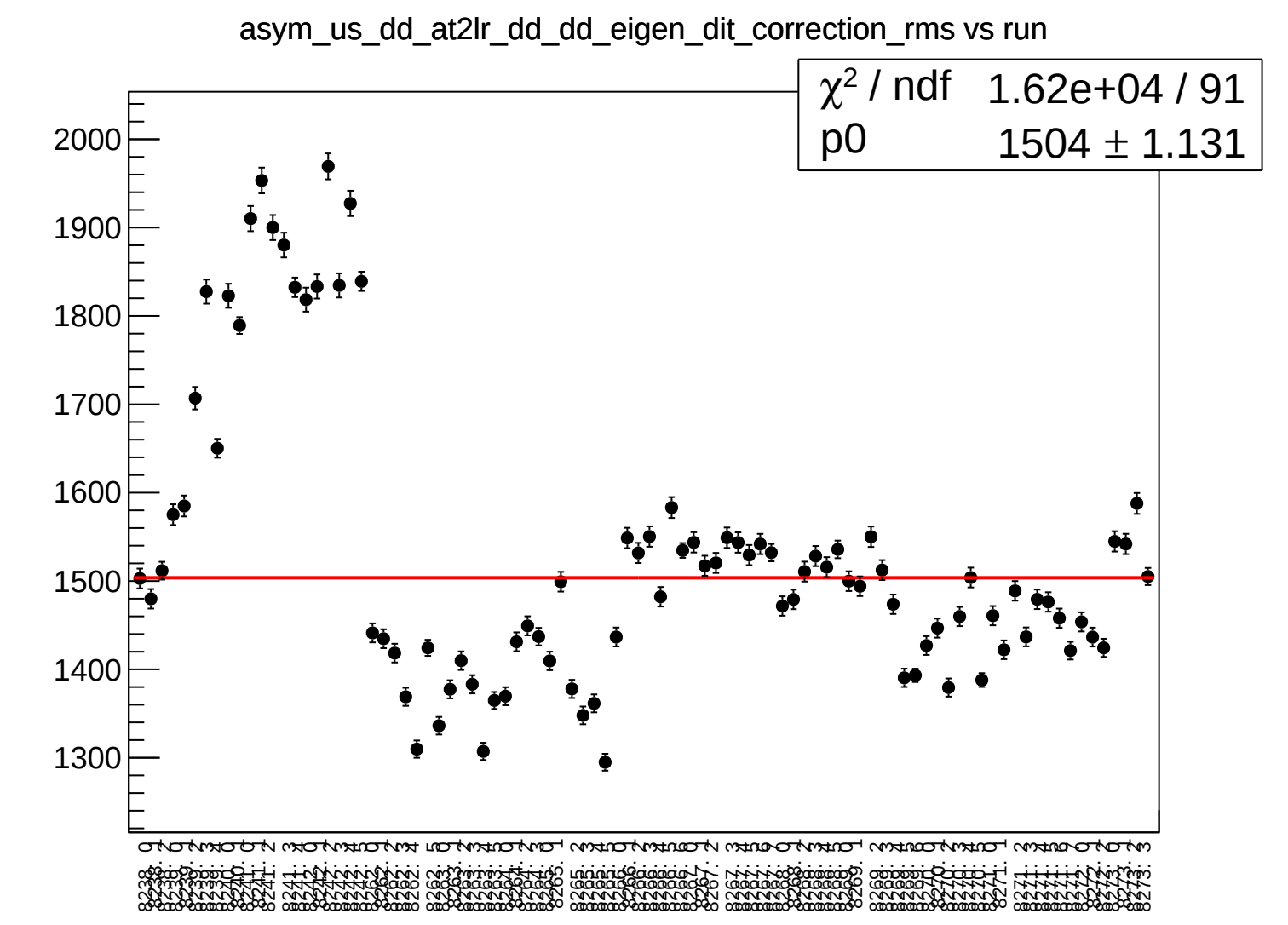

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 106.3 / 91
p0 −5.676 ± 1794
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 93.32
Std Dev 0
2
1
0
−1
−2

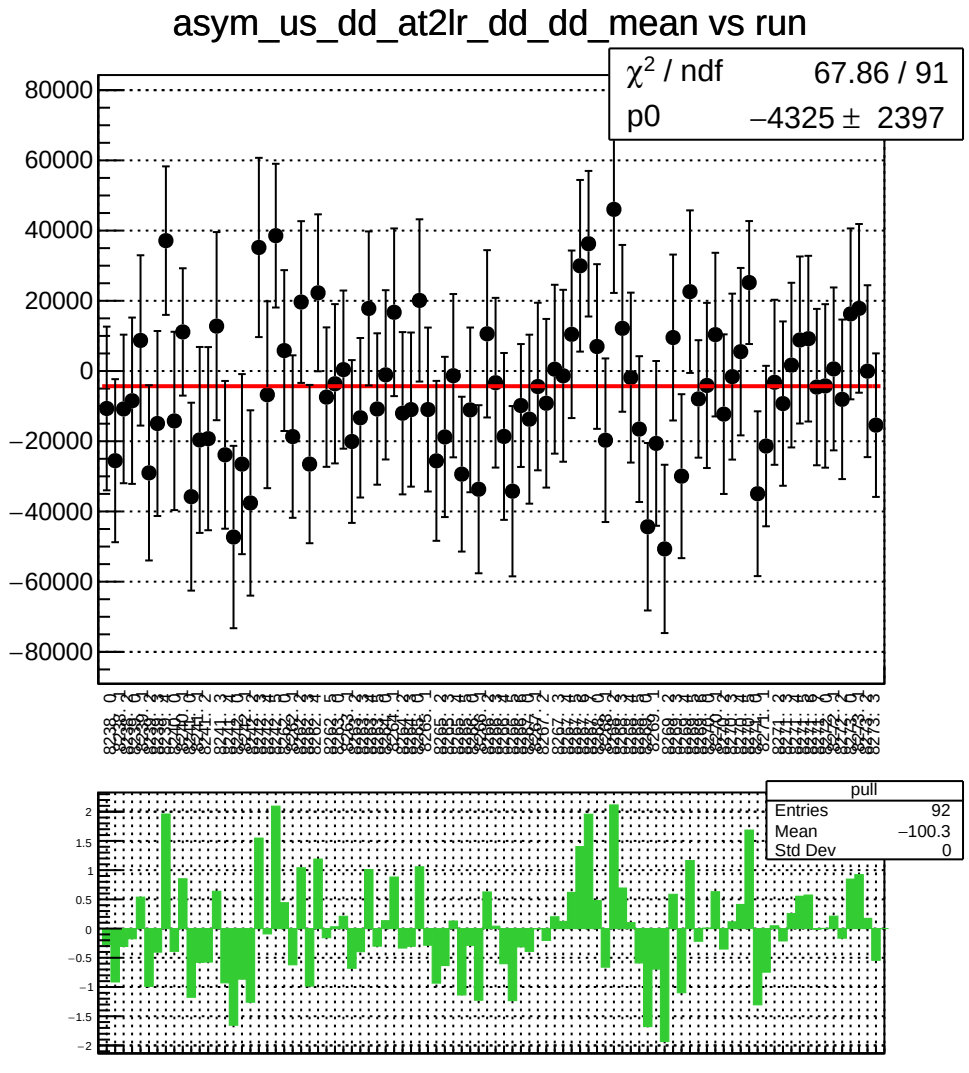

pull1D
Entries 92
Mean −0.02253
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

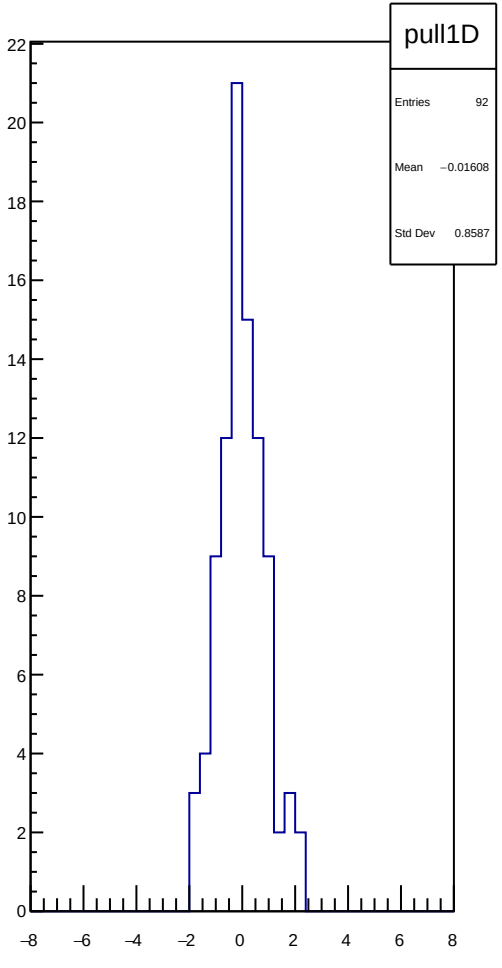

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 376.7 / 91
p0 1694 ± 1.269
1850
1800
1750
1700
1650

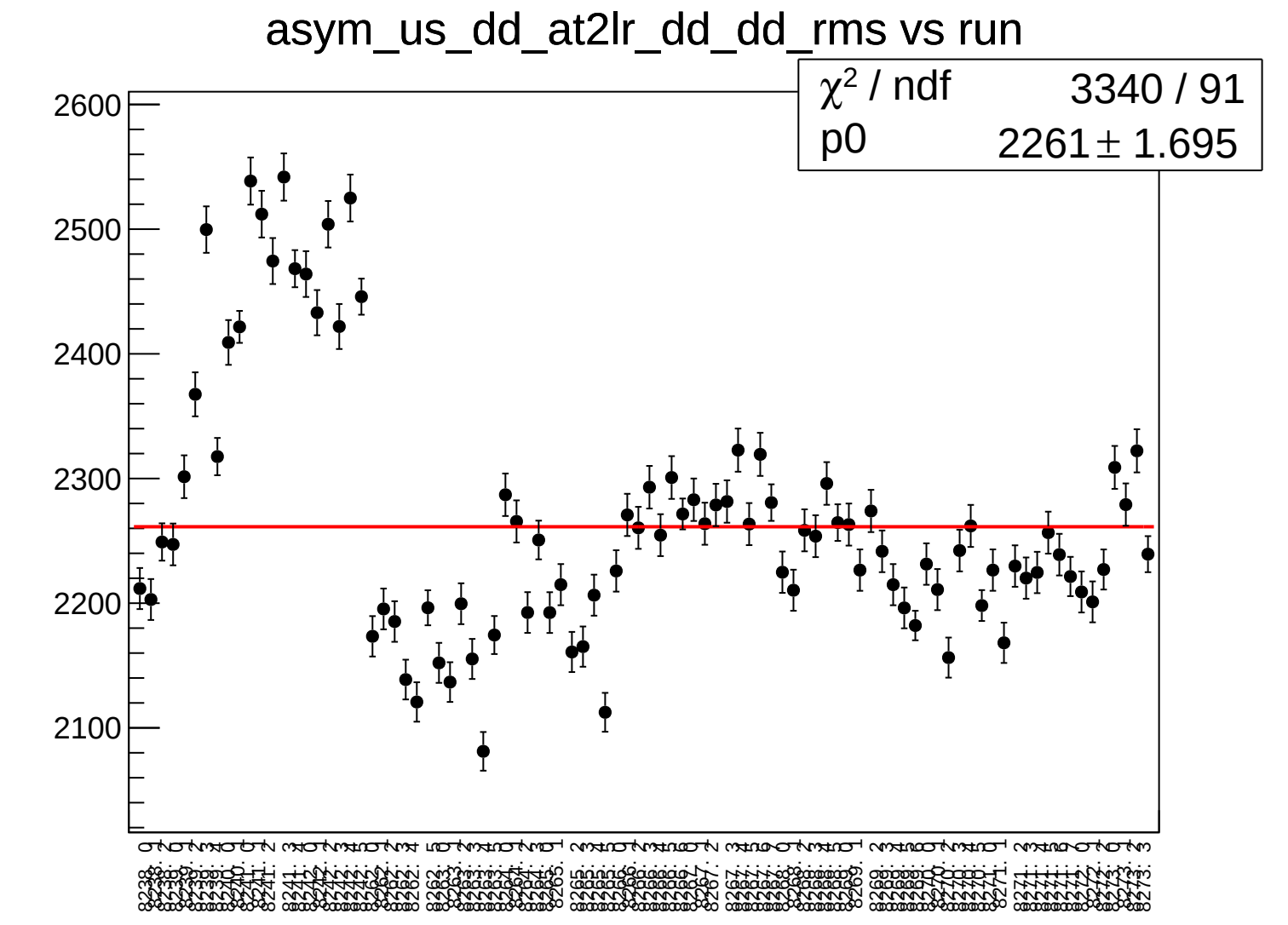

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 66.36 / 91
p0 4098 ± 1600
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −607.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

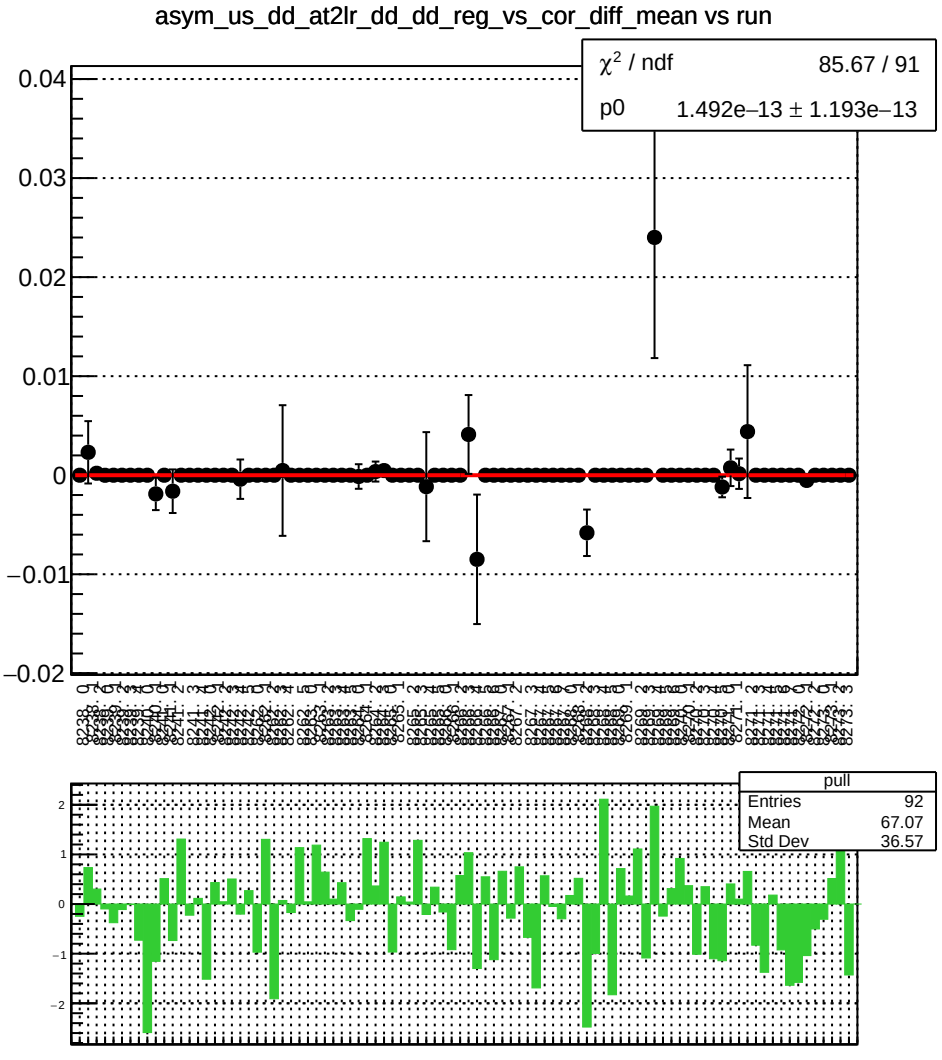

pull1D
Entries 92
Mean 0.006998
Std Dev 0.8492
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

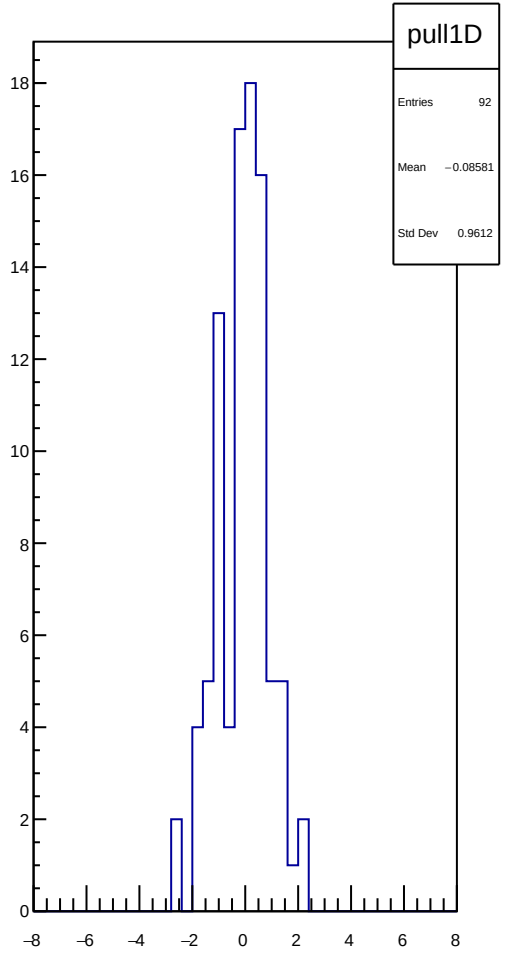

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.62e+04 / 91
p0 1504 ± 1.131
2000
1900
1800
1700
1600
1500
1400
1300

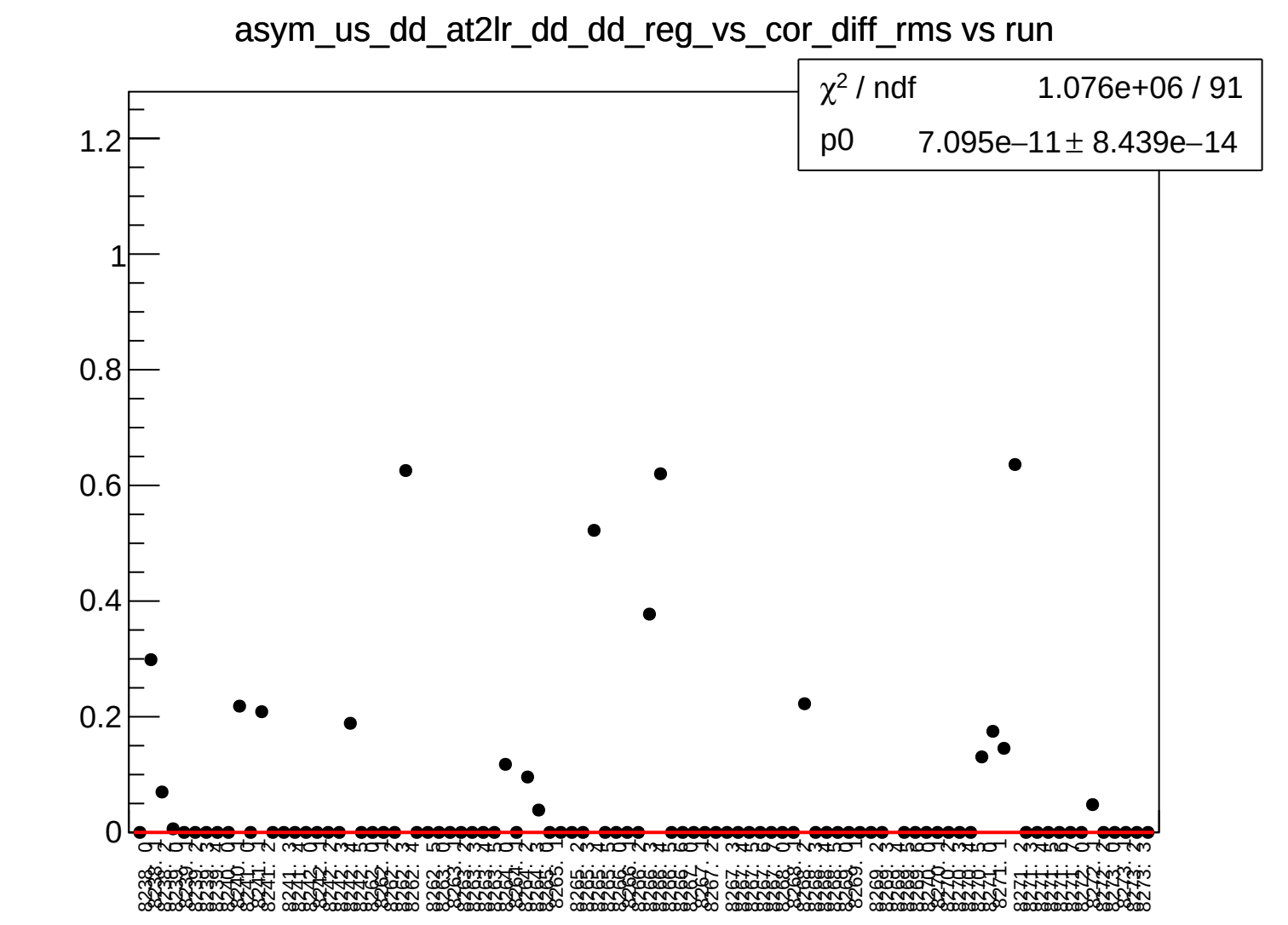

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 67.86 / 91
p0 −4325 ± 2397
pull
Entries 92
Mean −100.3
Std Dev 0

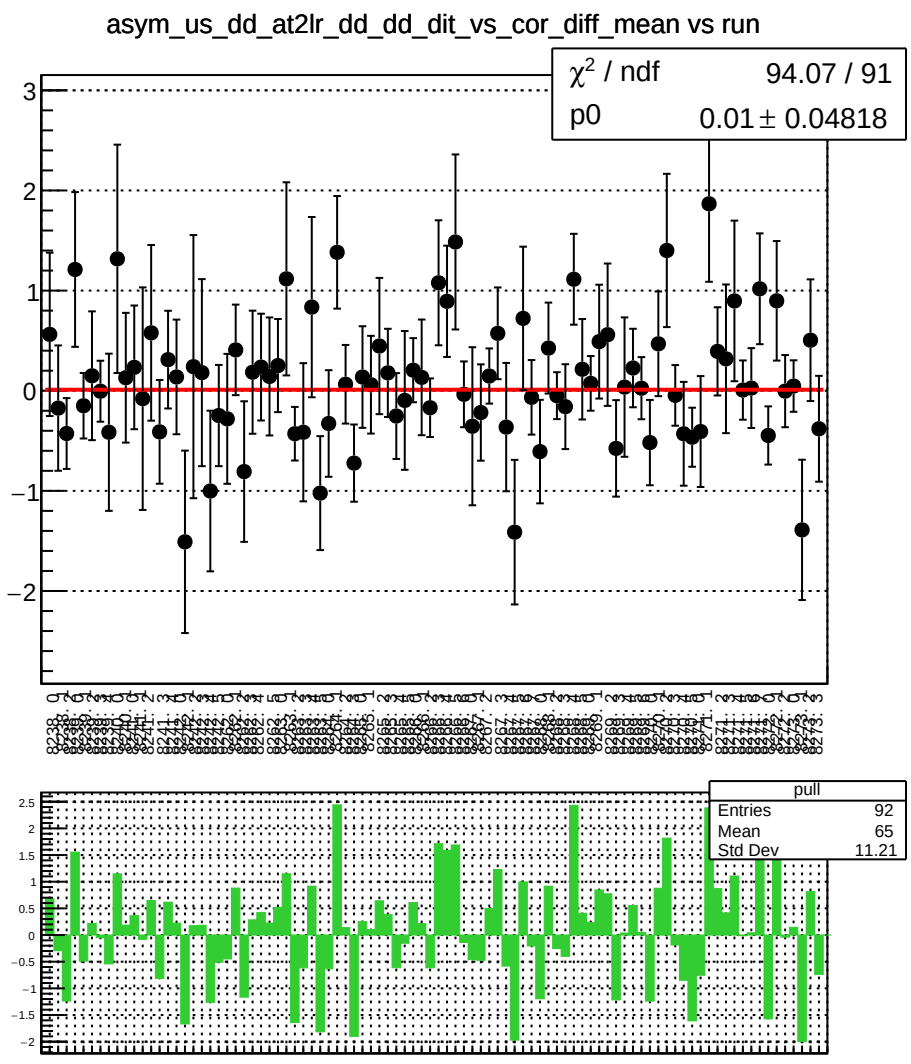

pull1D
Entries 92
Mean −0.01608
Std Dev 0.8587

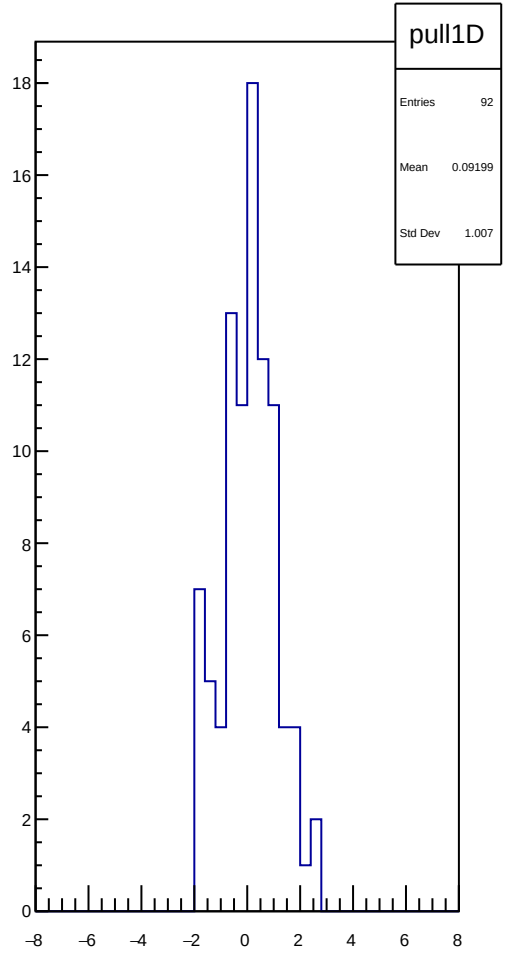

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 3340 / 91
p0 2261 ± 1.695
2600
2500
2400
2300
2200
2100

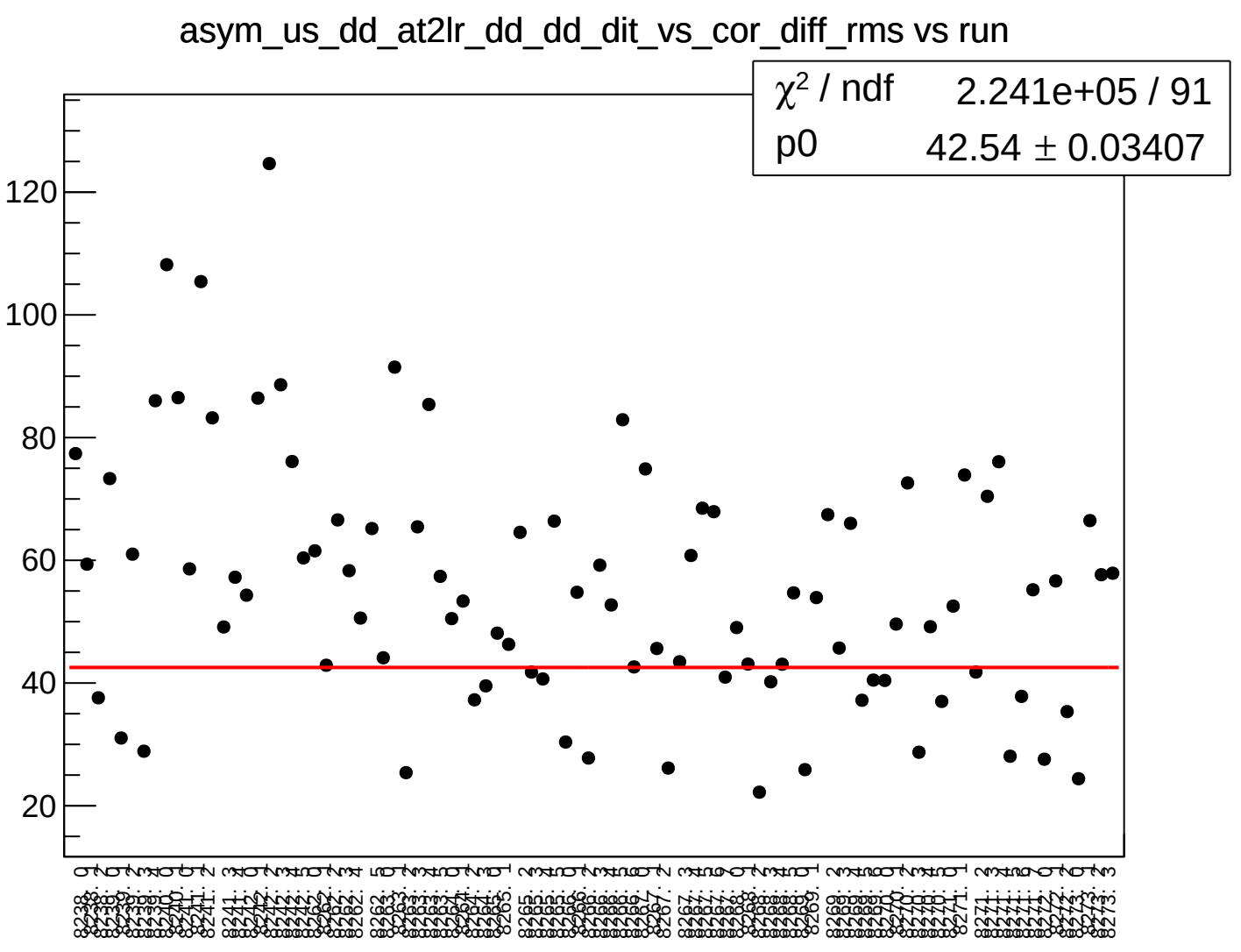

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.67 / 91
p0 1.492e−13 ± 1.193e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean 67.07
Std Dev 36.57
2
1
0
−1
−2

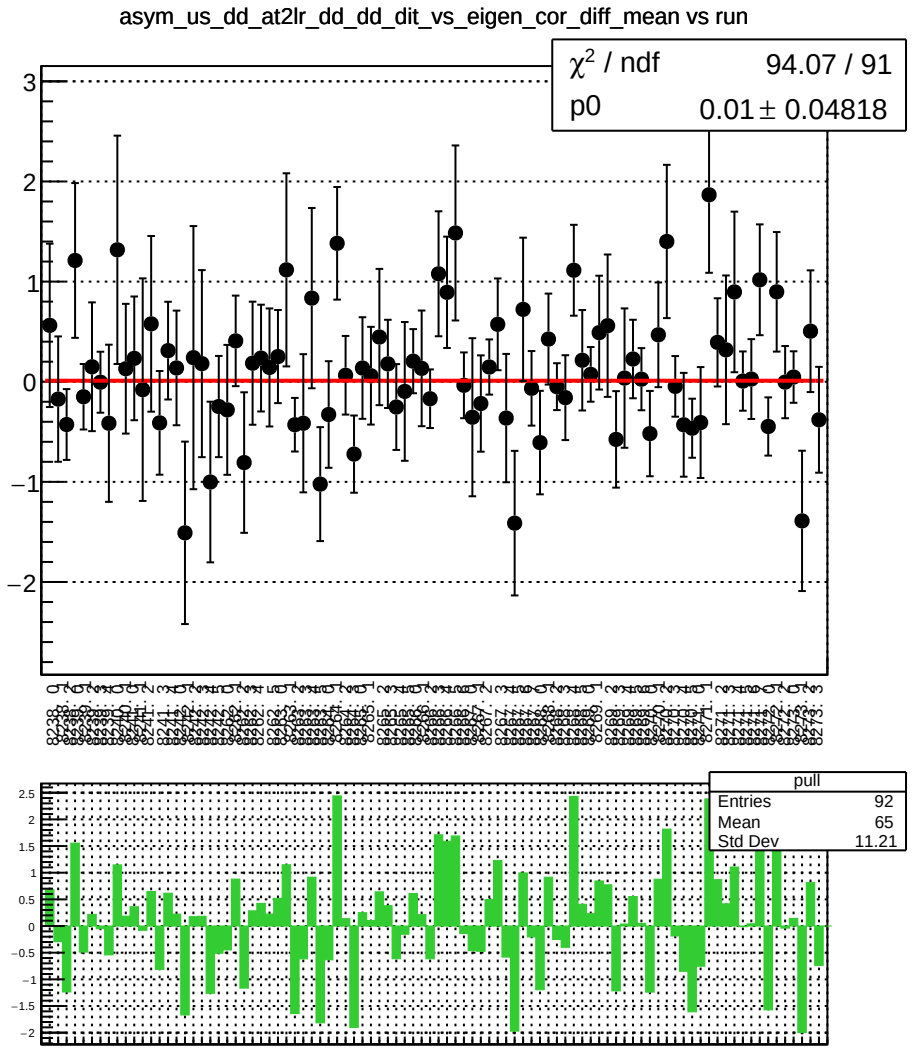

pull1D
Entries 92
Mean −0.08581
Std Dev 0.9612
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

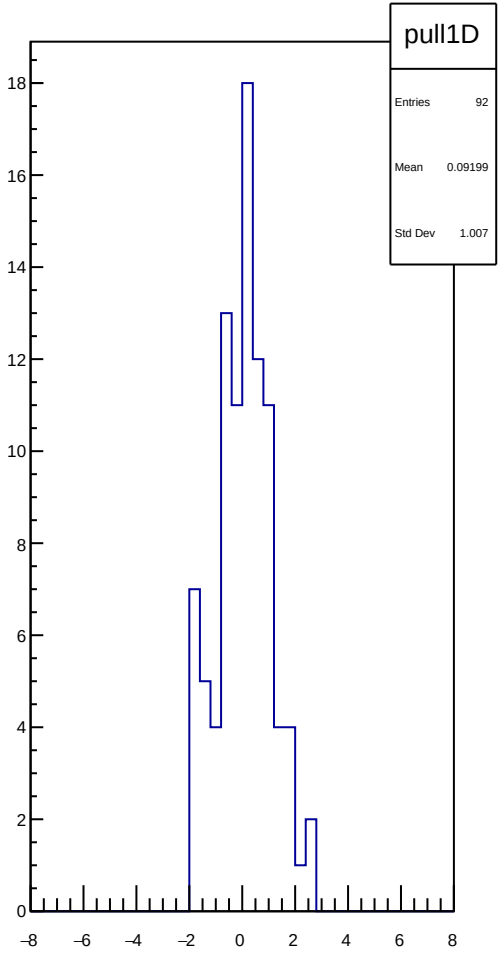

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.076e+06 / 91
p0 7.095e−11 ± 8.439e−14
1.2
1
0.8
0.6
0.4
0.2
0

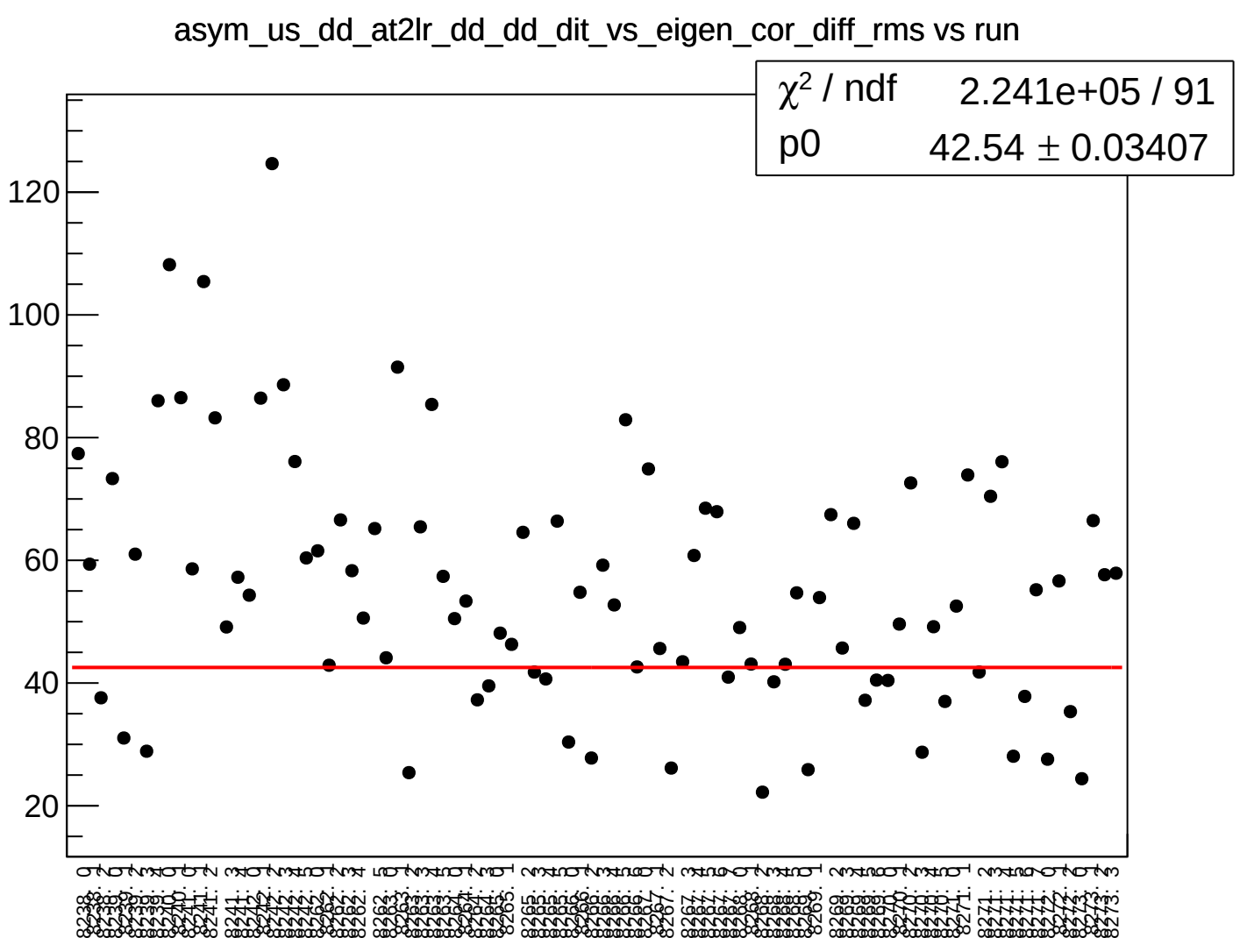

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.07 / 91
p0 0.01 ± 0.04818
pull
Entries 92
Mean 65
Std Dev 11.21

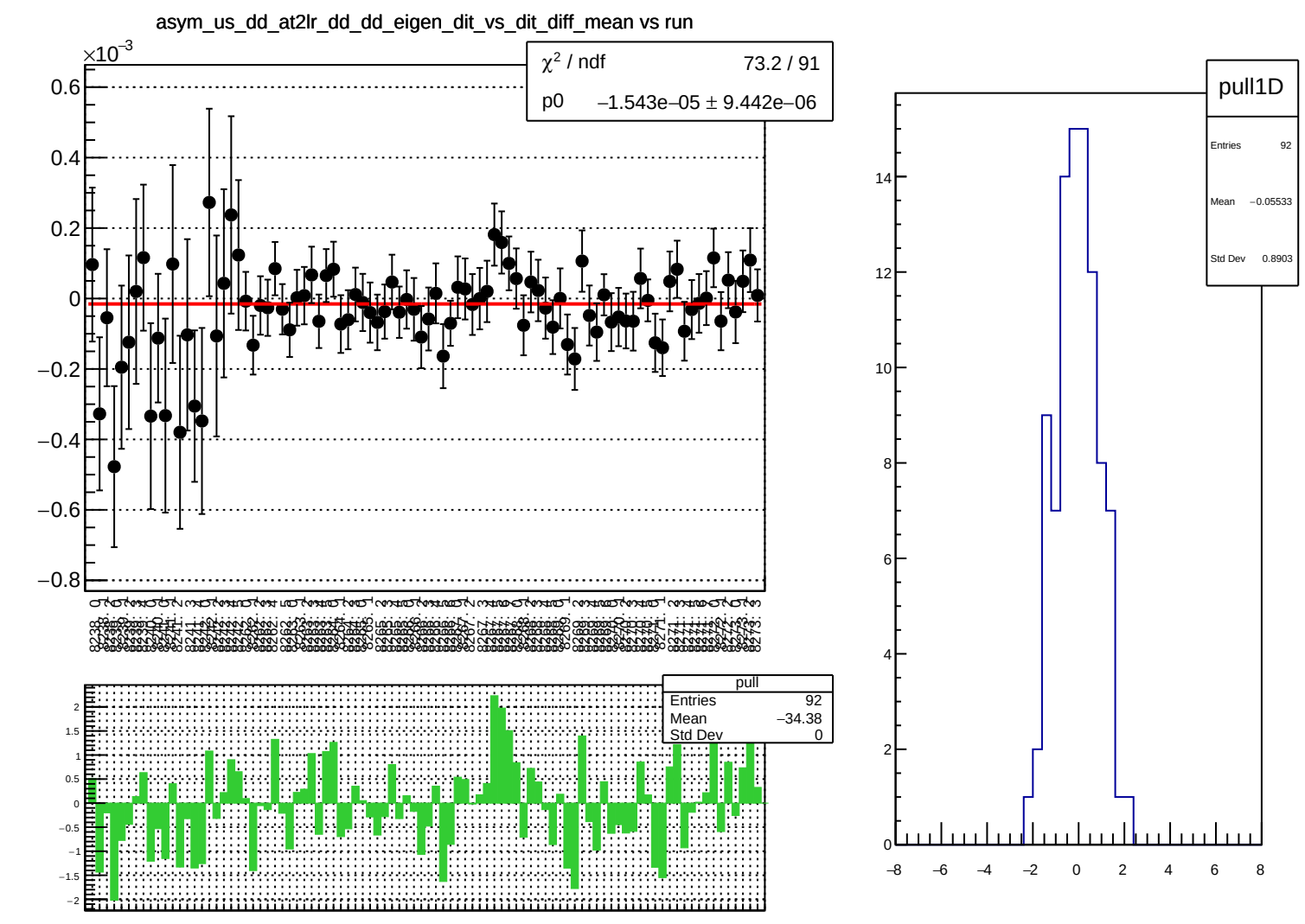

pull1D
Entries 92
Mean 0.09199
Std Dev 1.007

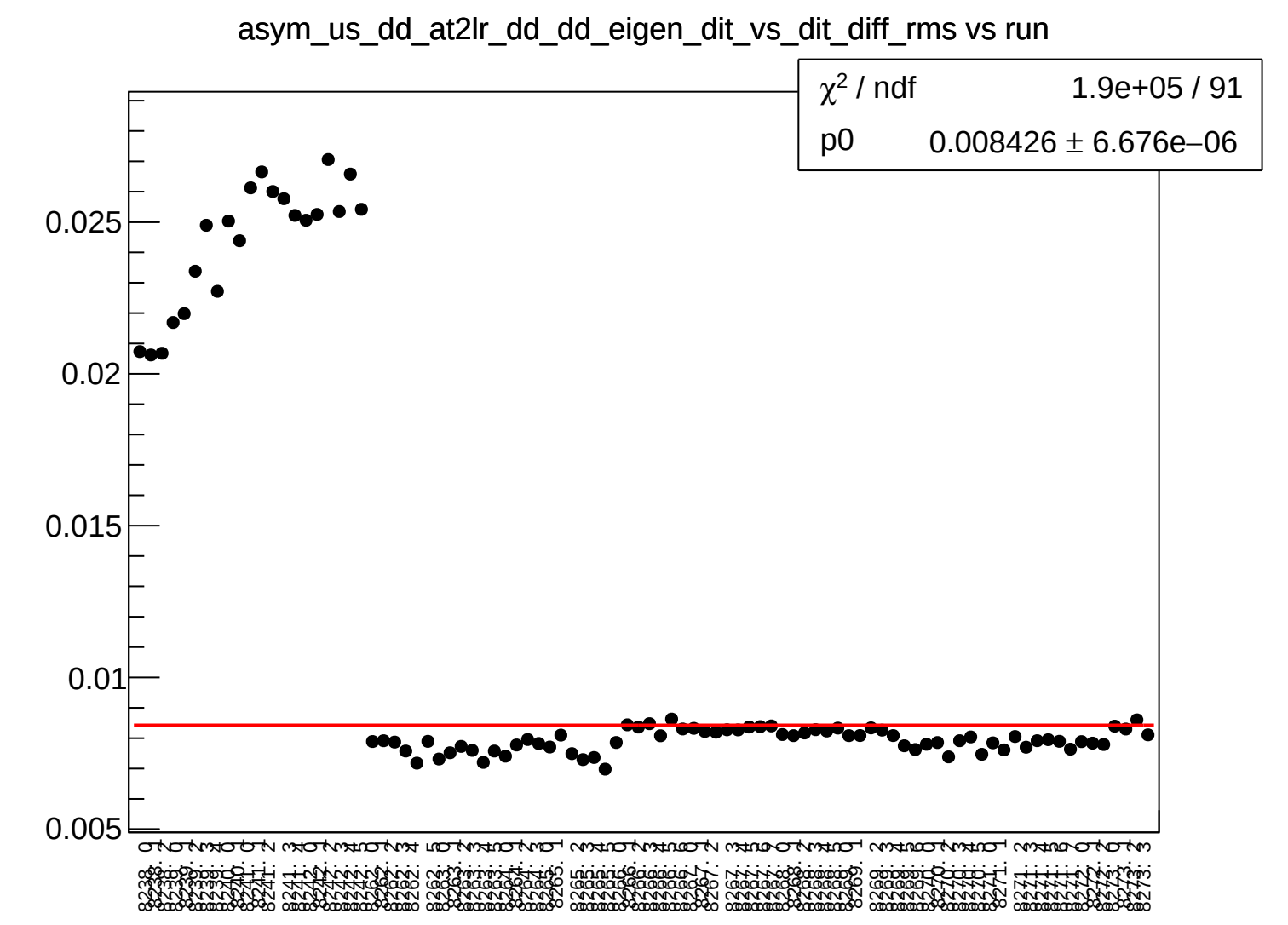

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.241e+05 / 91
p0 42.54 ± 0.03407
120
100
80
60
40
20

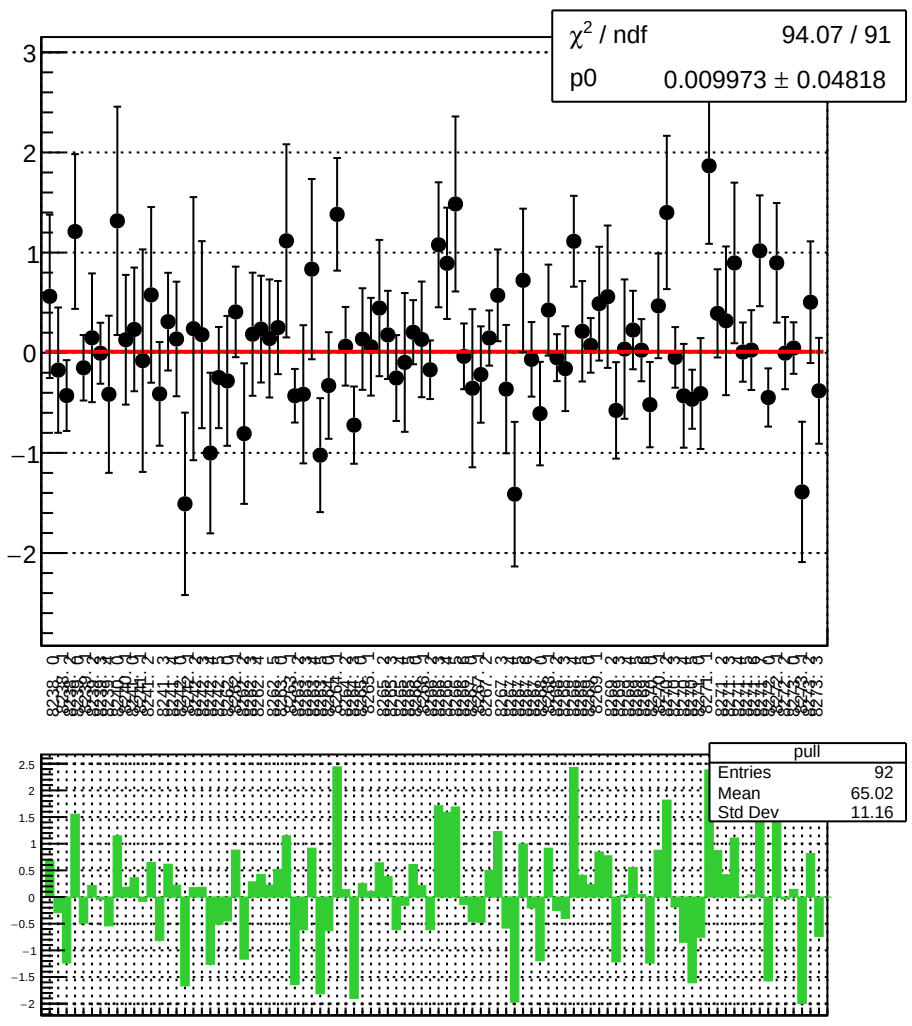

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.07 / 91
p0 0.01 ± 0.04818
pull
Entries 92
Mean 65
Std Dev 11.21

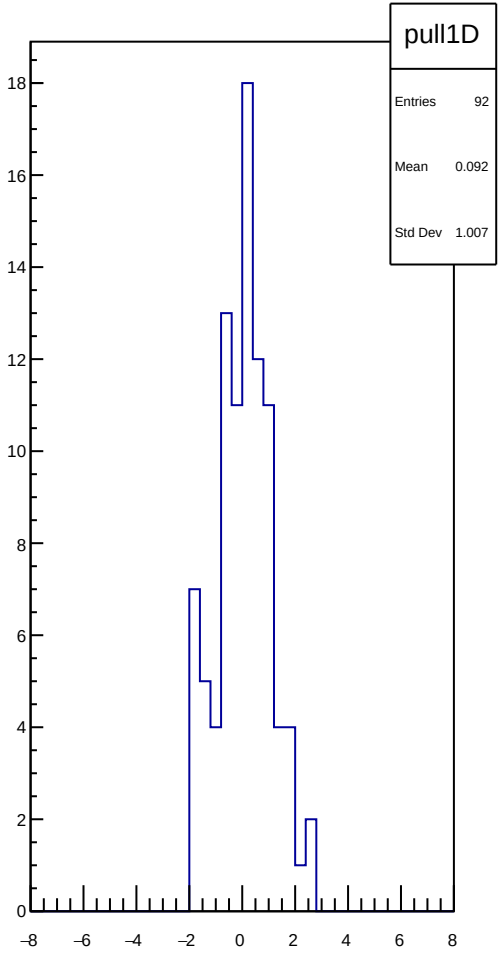

pull1D
Entries 92
Mean 0.09199
Std Dev 1.007

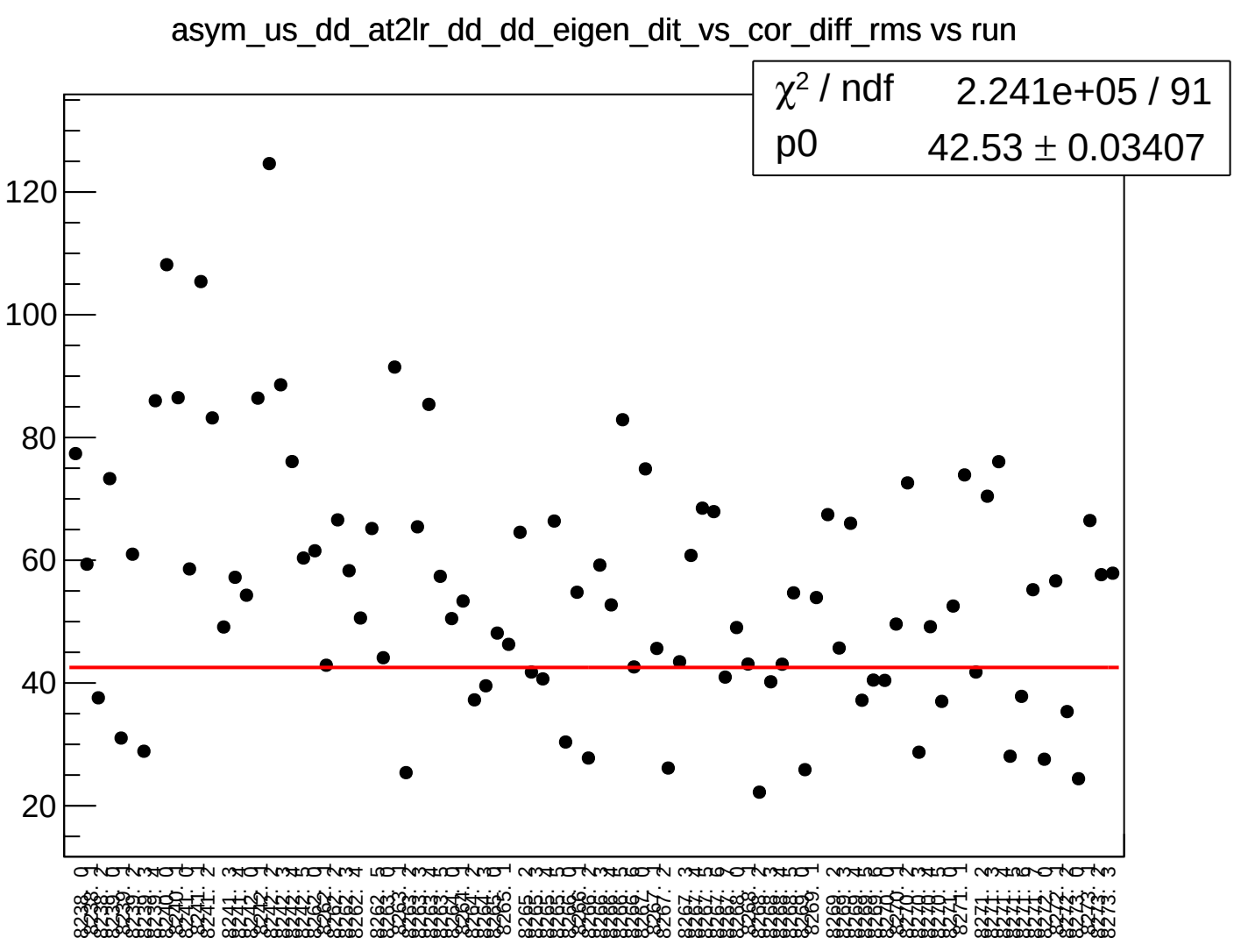

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.241e+05 / 91
p0 42.54 ± 0.03407
120
100
80
60
40
20

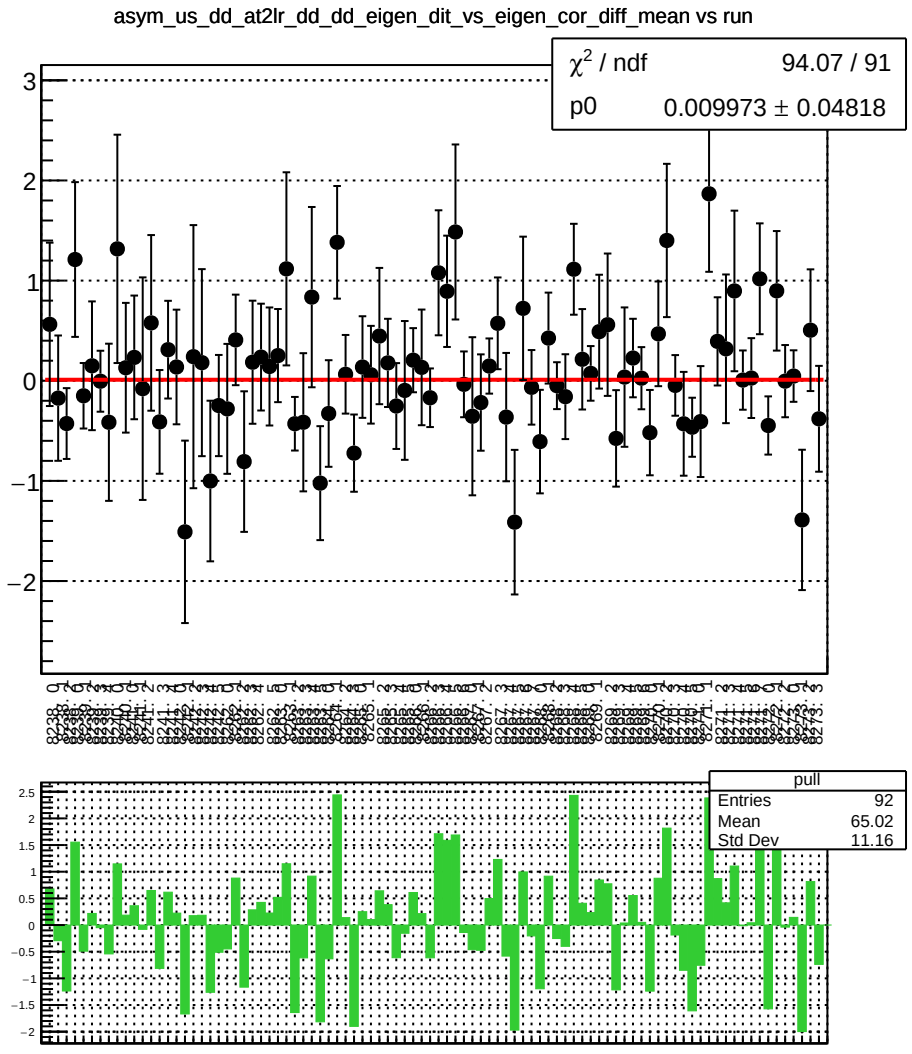

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 73.2 / 91
p0 −1.543e−05 ± 9.442e−06
pull
Entries 92
Mean −34.38
Std Dev 0
pull1D
Entries 92
Mean −0.05533
Std Dev 0.8903

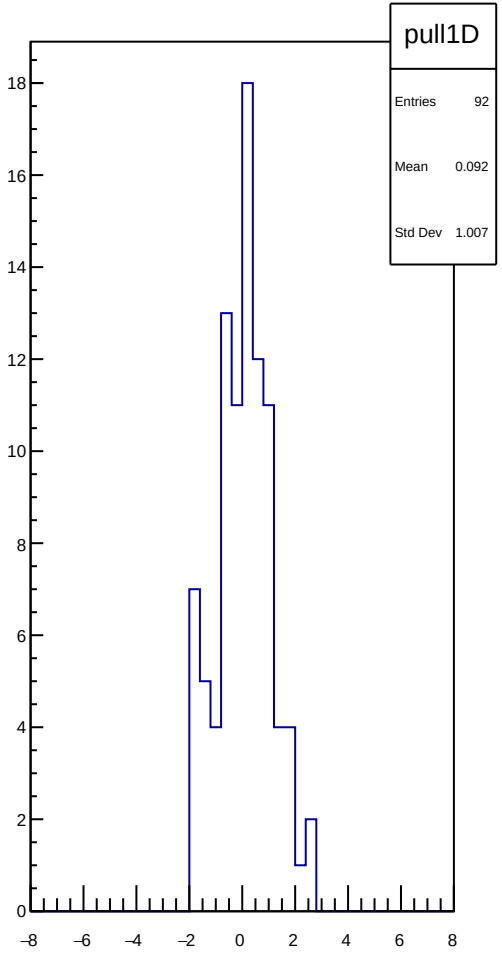

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.9e+05 / 91
p0 0.008426 ± 6.676e−06
0.025
0.02
0.015
0.01
0.005

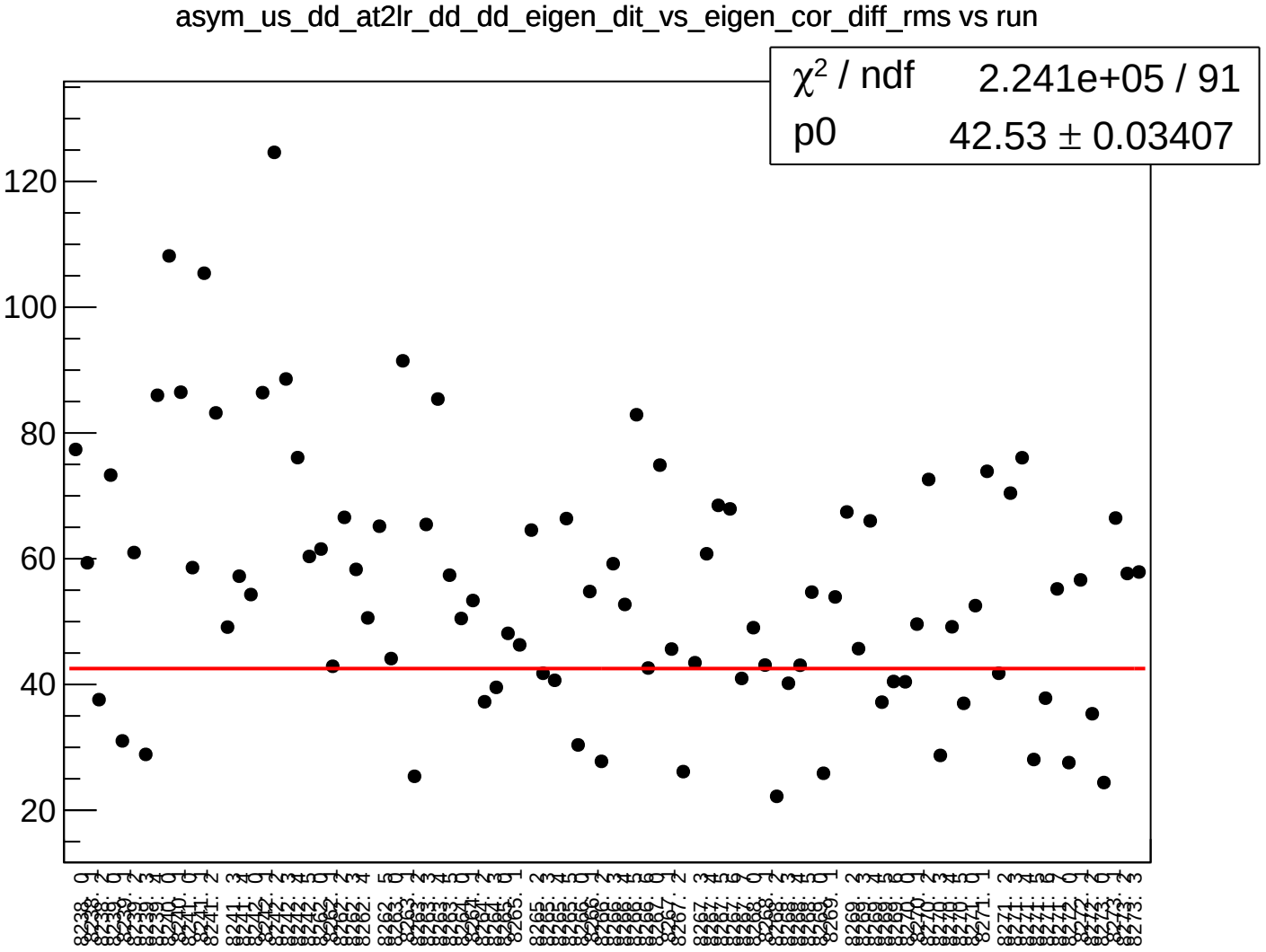

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.07 / 91
p0 0.009973 ± 0.04818
pull
Entries 92
Mean 65.02
Std Dev 11.16

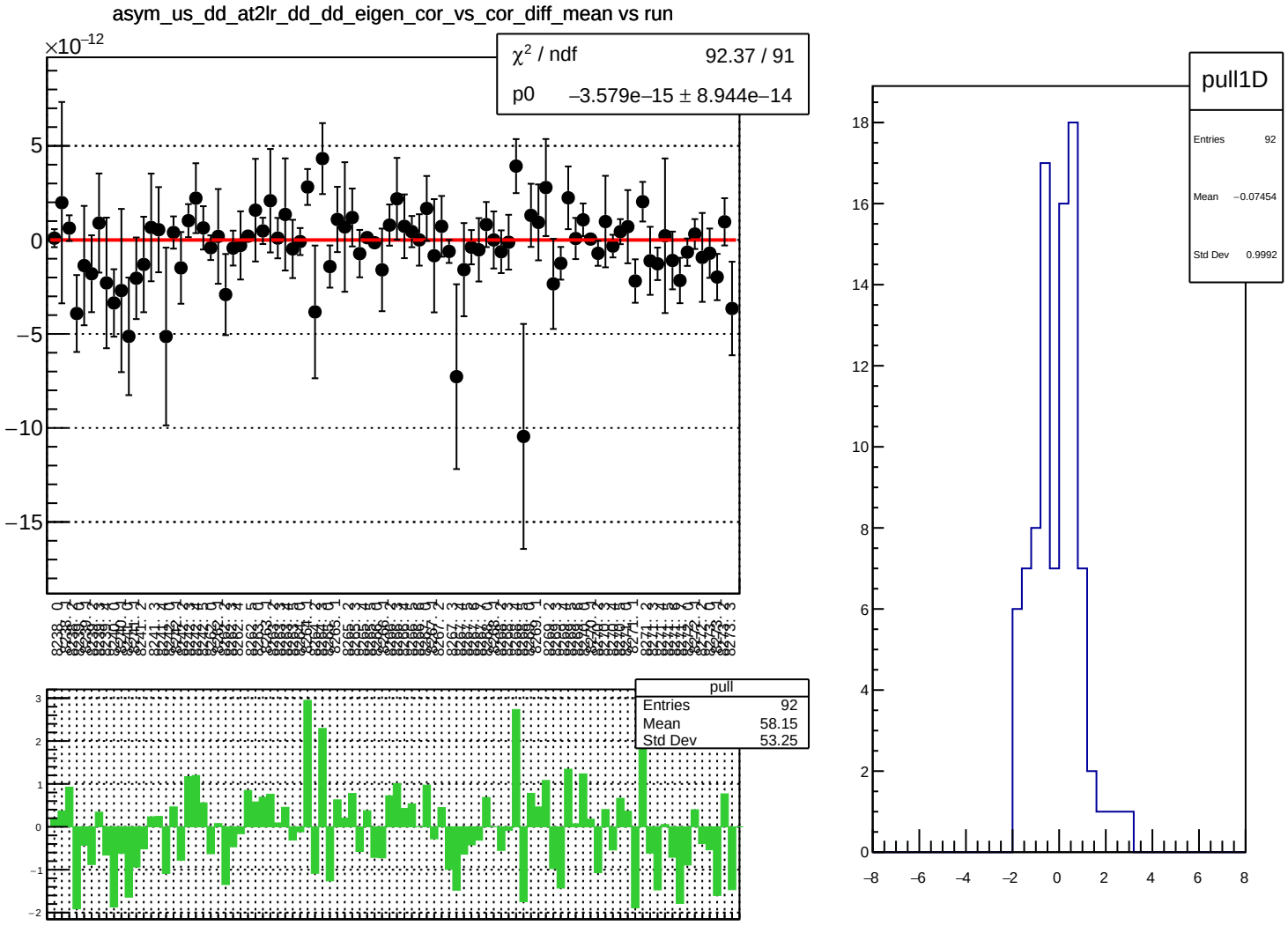

pull1D
Entries 92
Mean 0.092
Std Dev 1.007

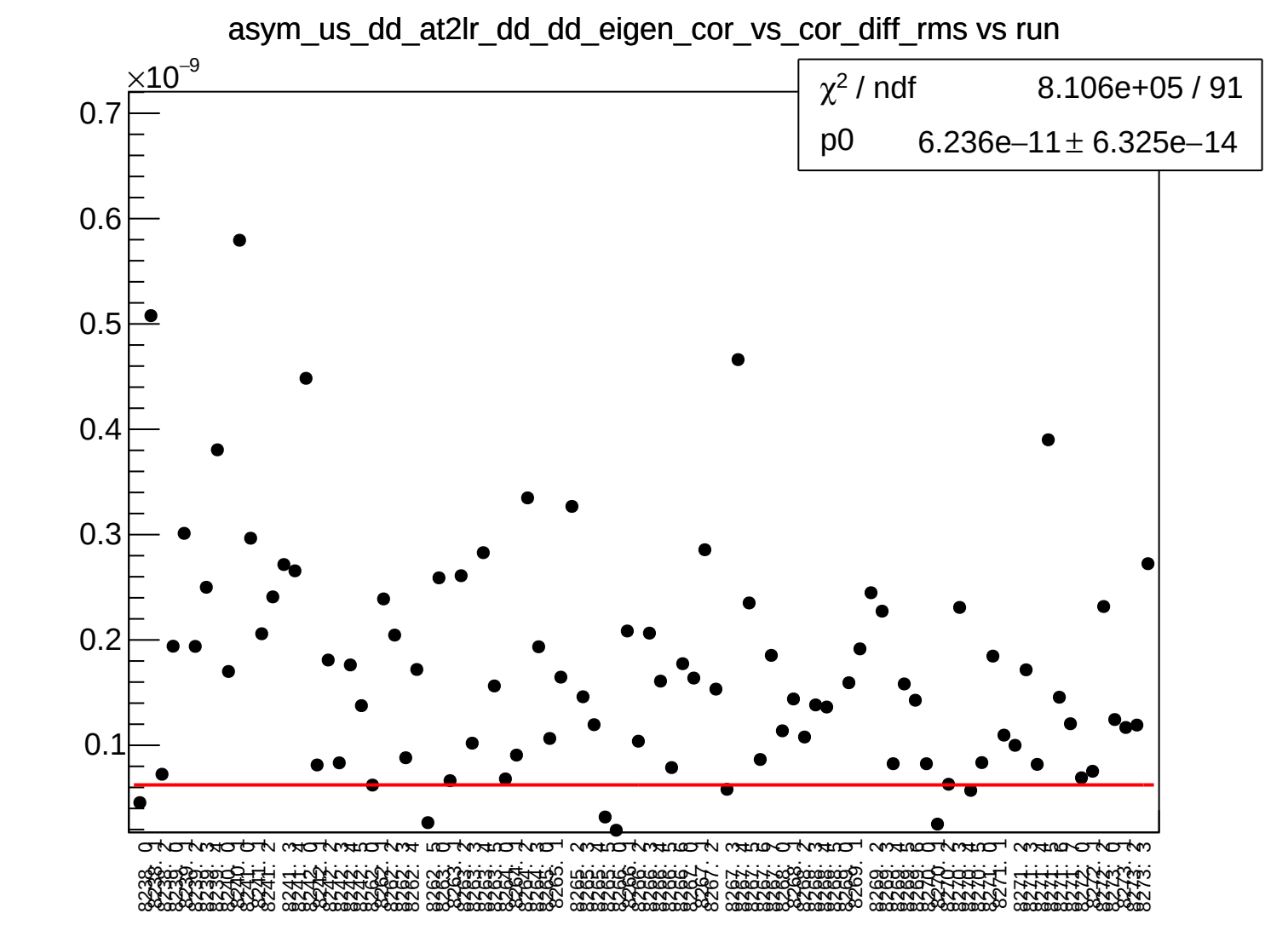

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.241e+05 / 91
p0 42.53 ± 0.03407
120
100
80
60
40
20

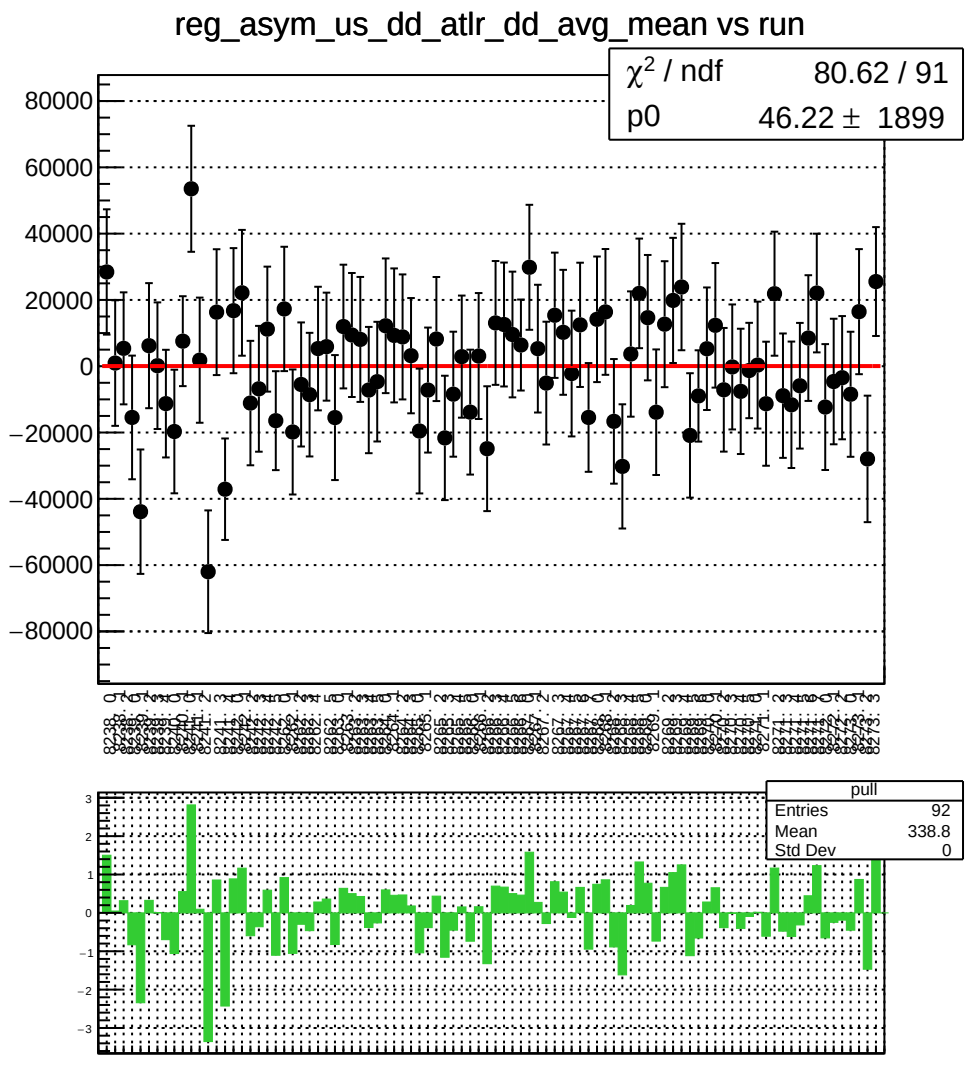

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.07 / 91
p0 0.009973 ± 0.04818
pull
Entries 92
Mean 65.02
Std Dev 11.16

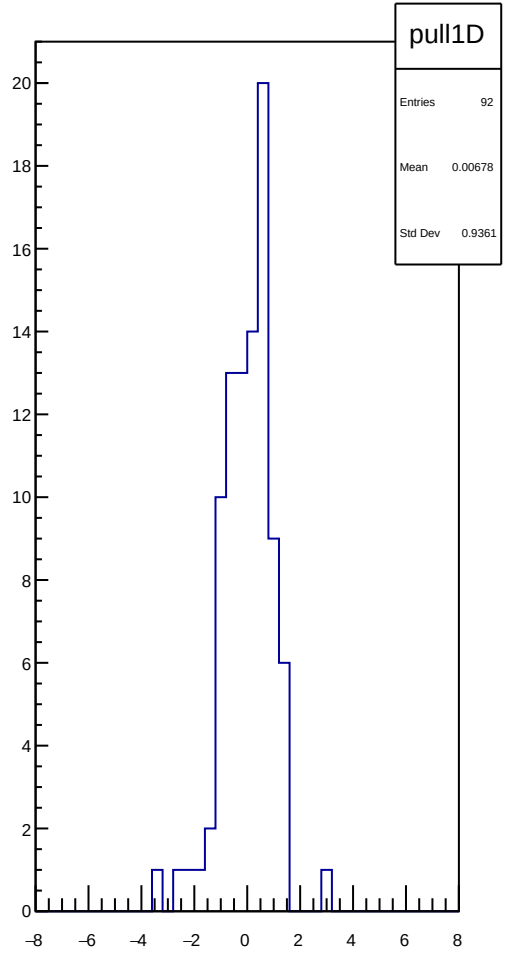

pull1D
Entries 92
Mean 0.092
Std Dev 1.007

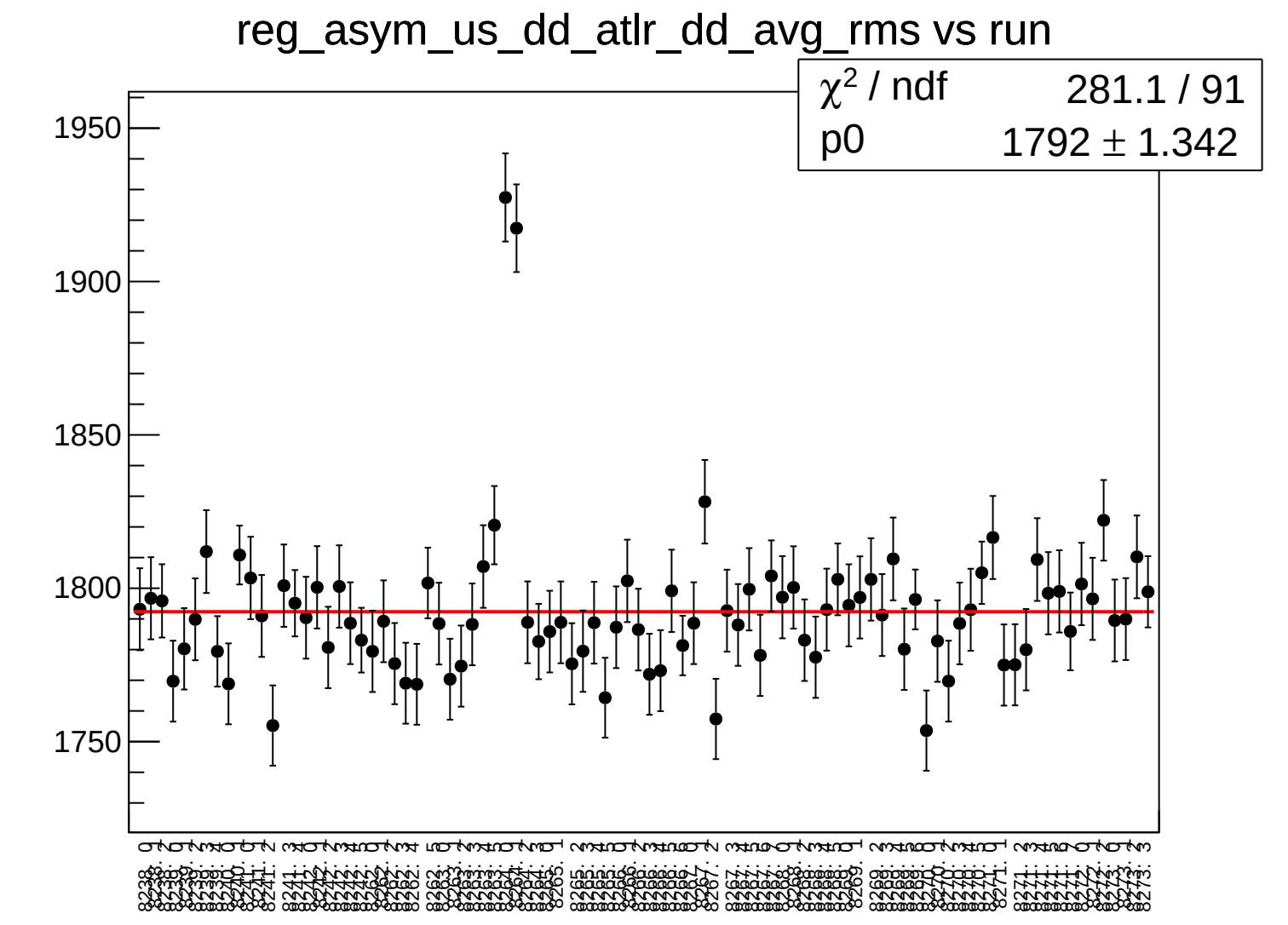

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.241e+05 / 91
p0 42.53 ± 0.03407
120
100
80
60
40
20

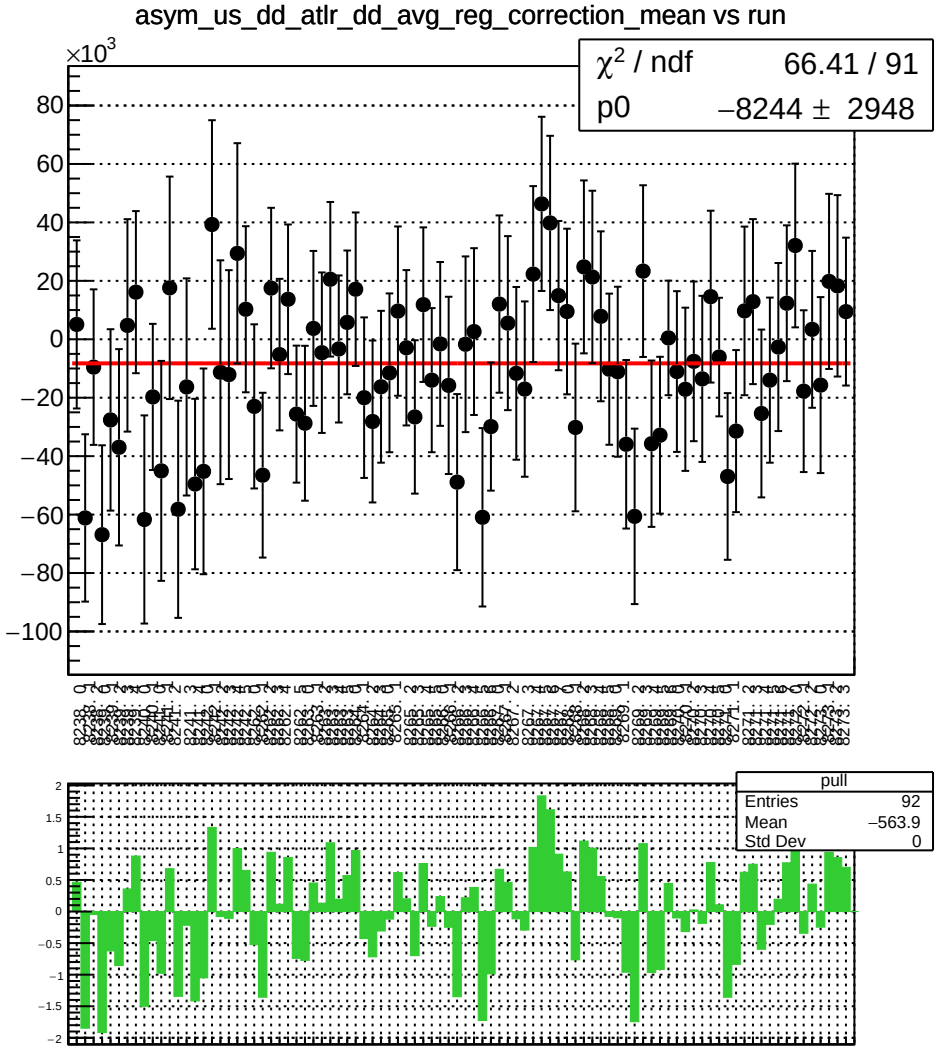

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.37 / 91
p0 −3.579e−15 ± 8.944e−14
pull
Entries 92
Mean 58.15
Std Dev 53.25
pull1D
Entries 92
Mean −0.07454
Std Dev 0.9992

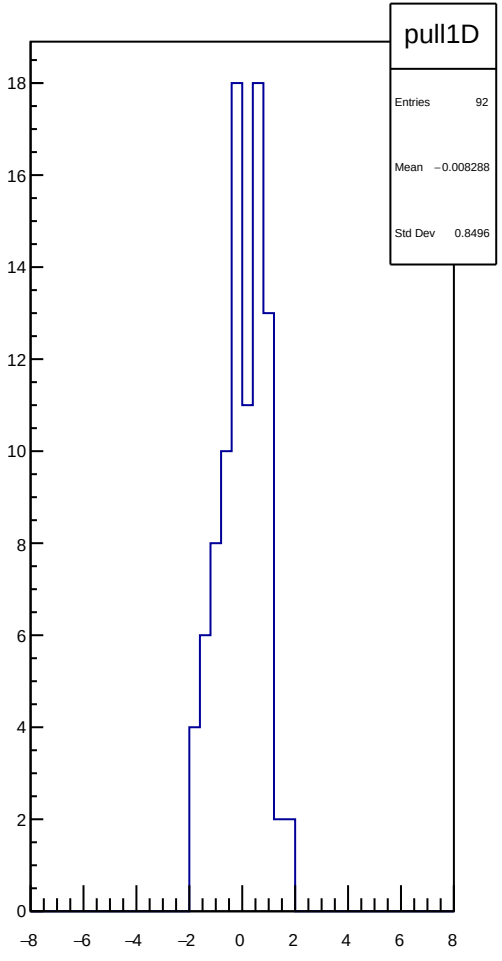

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.106e+05 / 91
p0 6.236e−11 ± 6.325e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

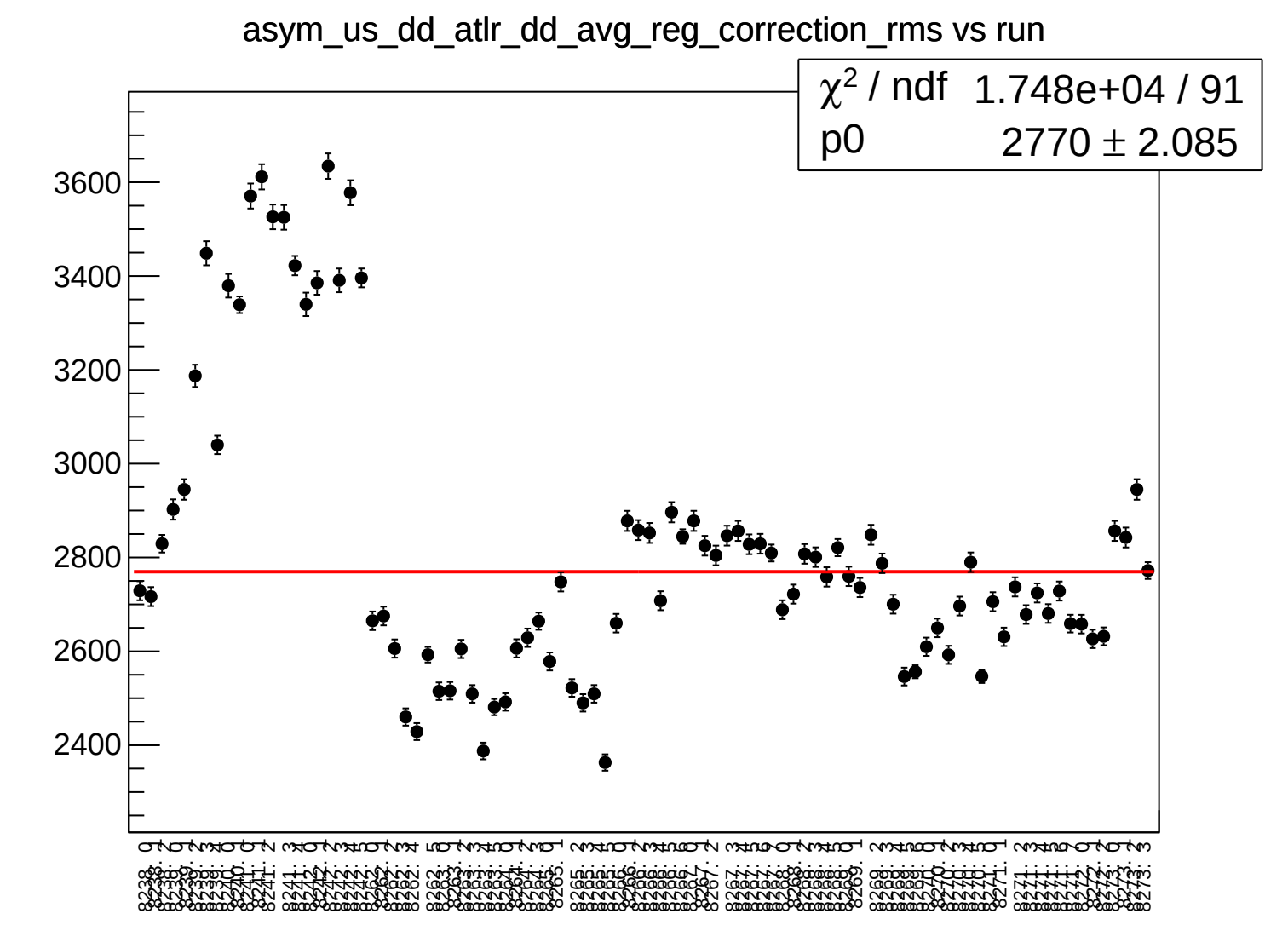

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 80.62 / 91
p0 46.22 ± 1899
pull
Entries 92
Mean 338.8
Std Dev 0

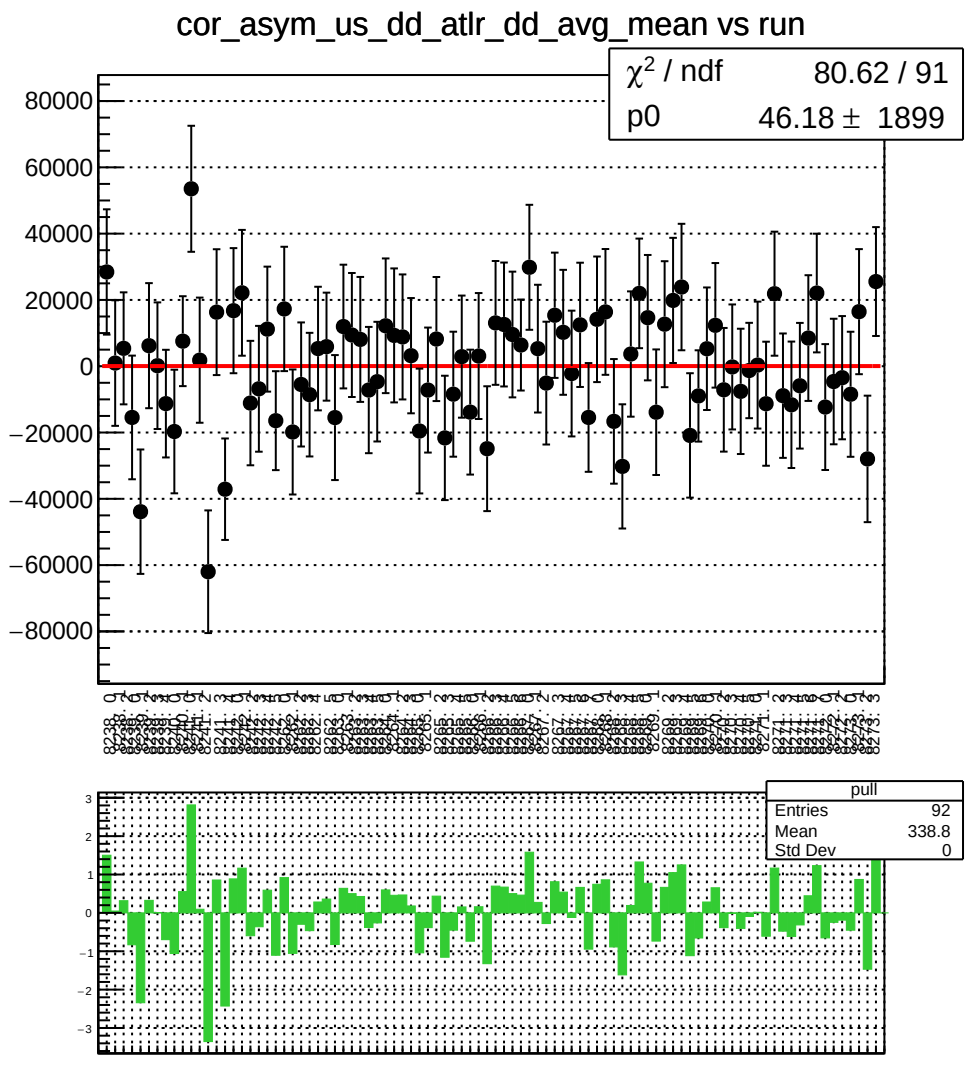

pull1D
Entries 92
Mean 0.00678
Std Dev 0.9361

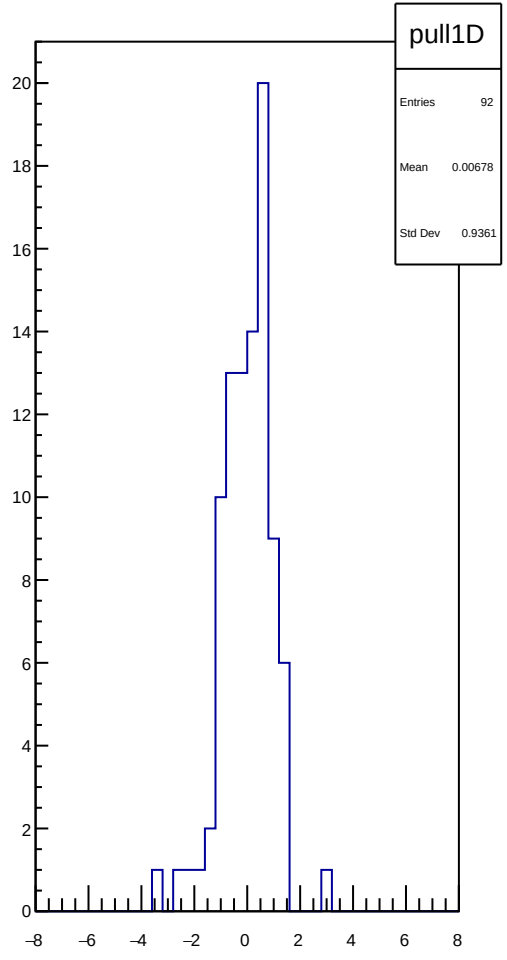

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 281.1 / 91
p0 1792 ± 1.342
1950
1900
1850
1800
1750

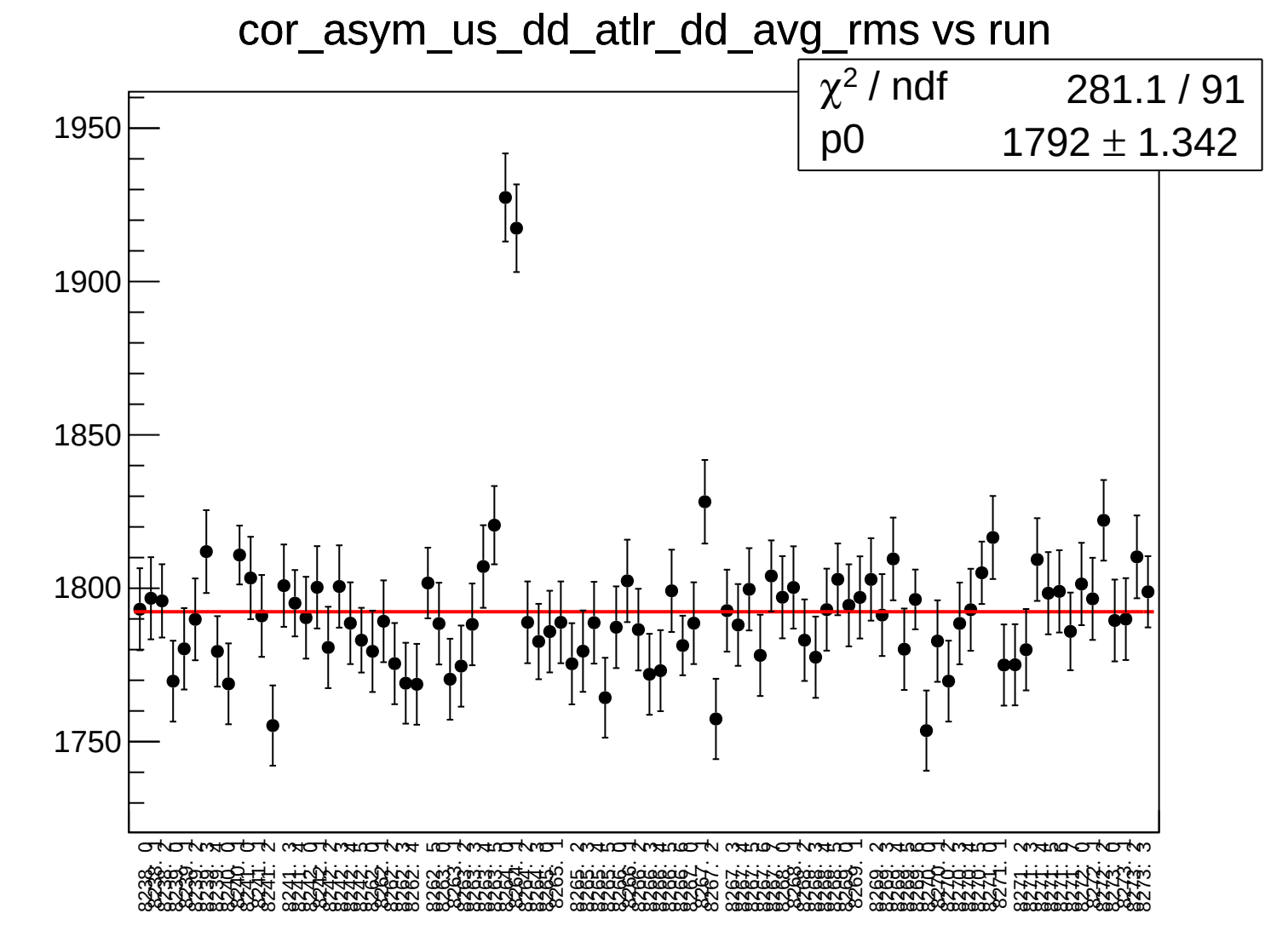

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 66.41 / 91
p0 −8244 ± 2948
pull
Entries 92
Mean −563.9
Std Dev 0

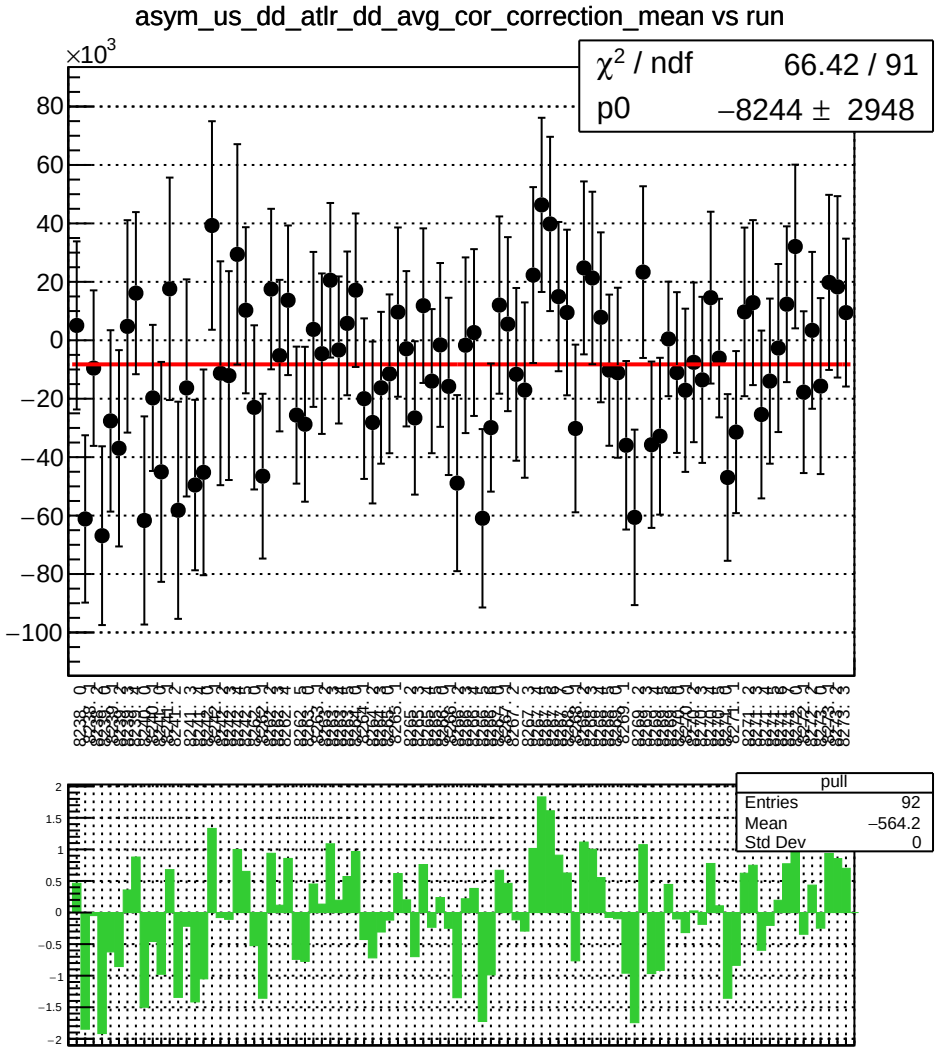

pull1D
Entries 92
Mean −0.008288
Std Dev 0.8496

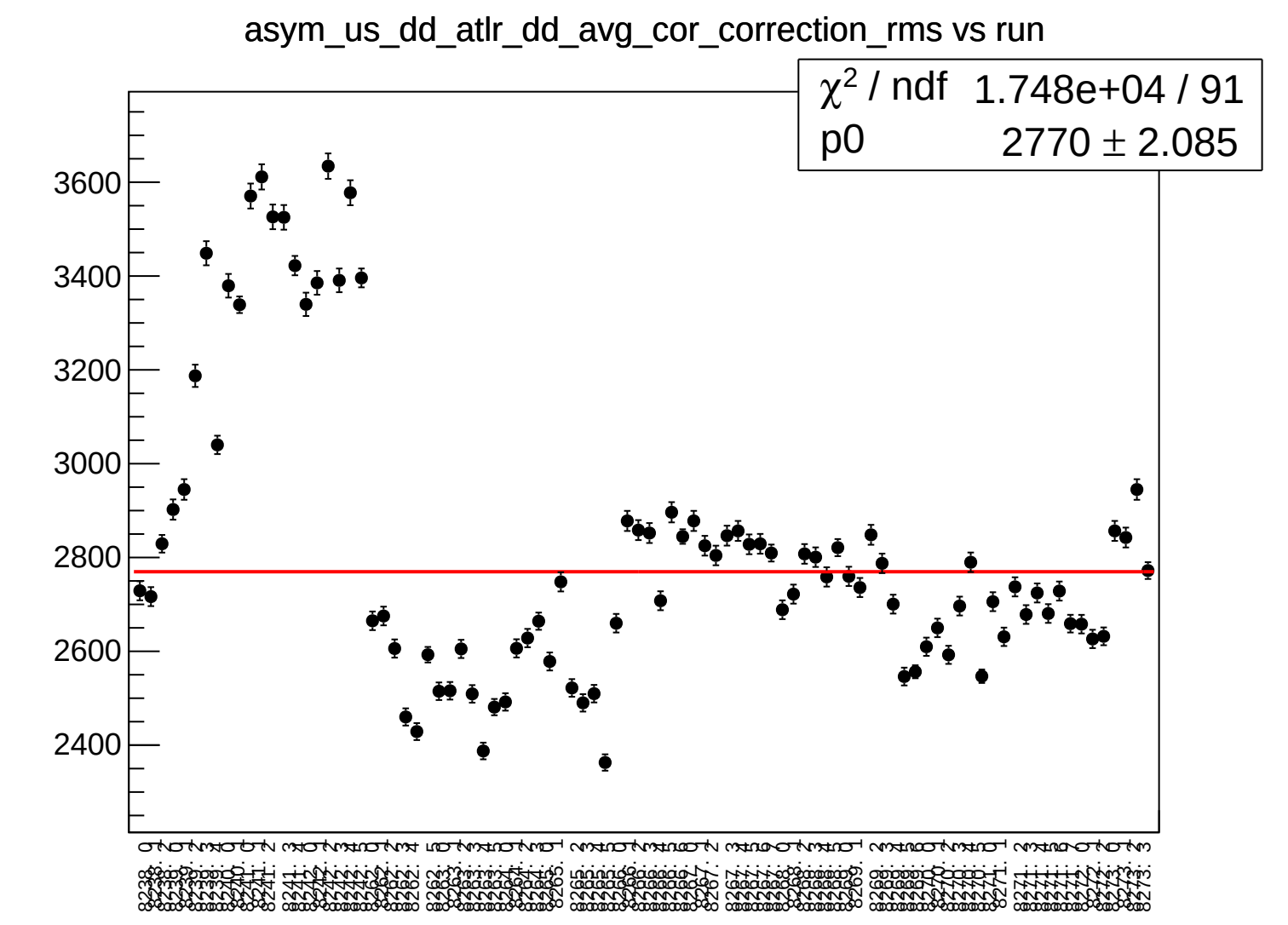

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.748e+04 / 91
p0 2770 ± 2.085
3600
3400
3200
3000
2800
2600
2400

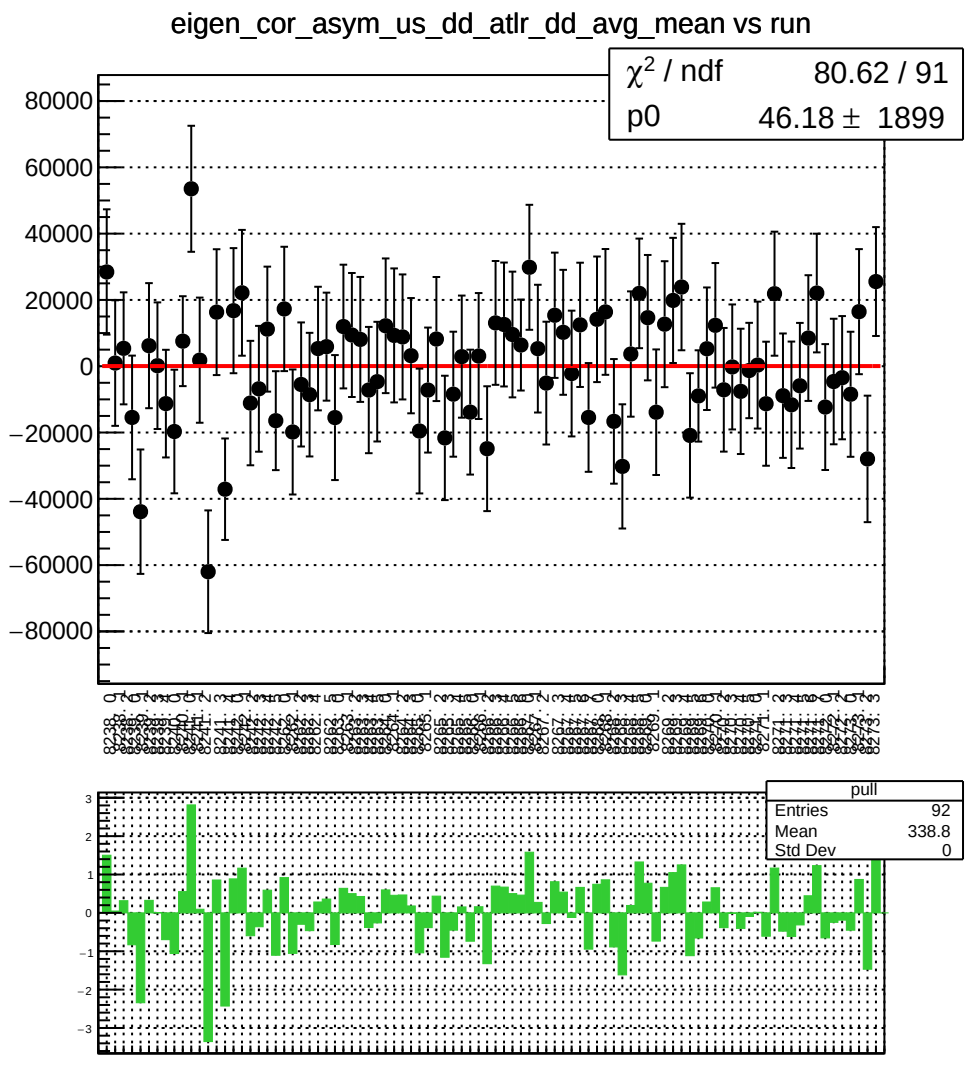

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 80.62 / 91
p0 46.18 ± 1899
pull
Entries 92
Mean 338.8
Std Dev 0

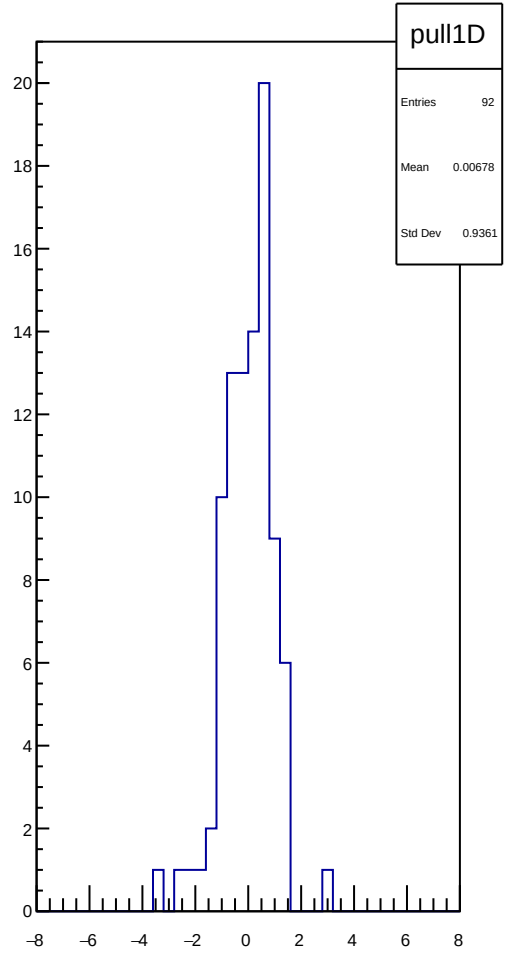

pull1D
Entries 92
Mean 0.00678
Std Dev 0.9361

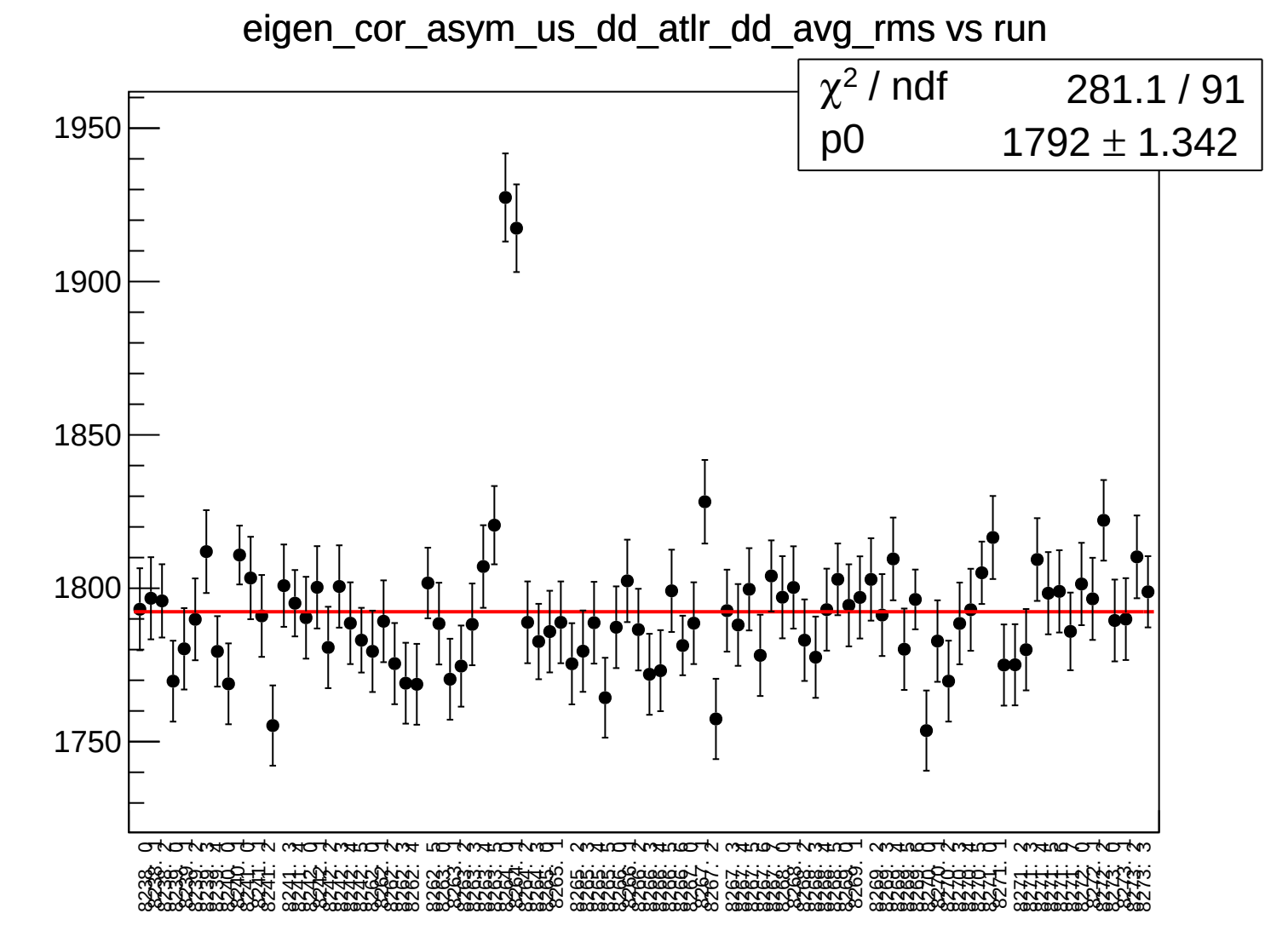

cor_asym_us_dd_atlr_dd_avg_rms vs run
$\chi^2$ / ndf 281.1 / 91
p0 1792 ± 1.342
1950
1900
1850
1800
1750

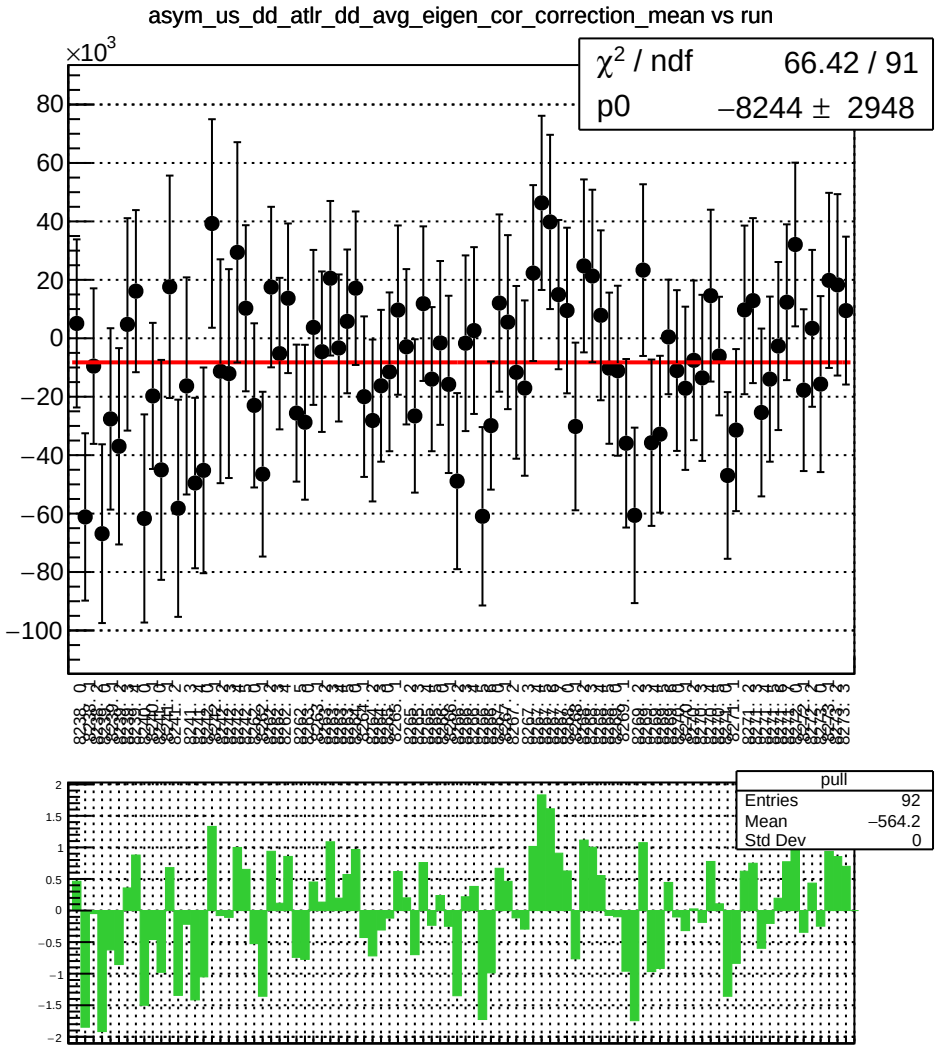

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 66.42 / 91
p0 −8244 ± 2948
pull
Entries 92
Mean −564.2
Std Dev 0
pull1D
Entries 92
Mean −0.008283
Std Dev 0.8496

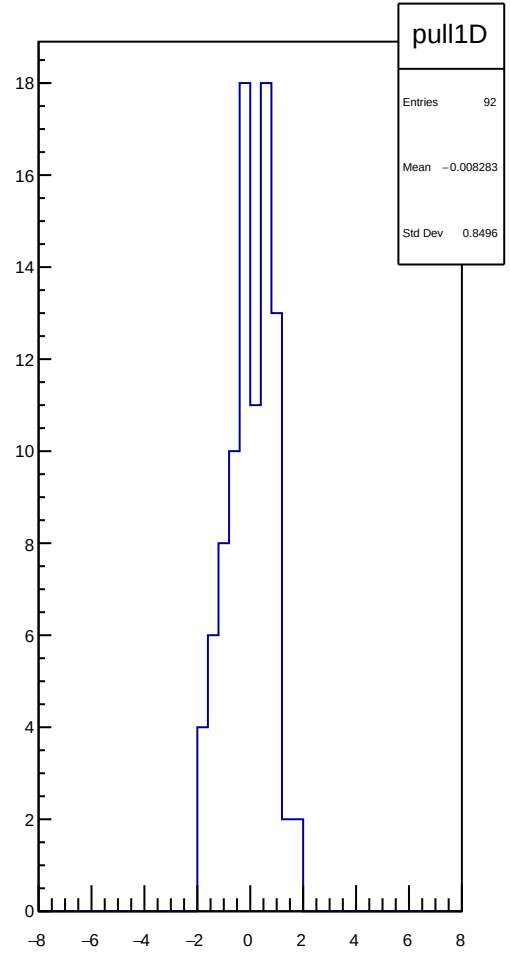

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.748e+04 / 91
p0 2770 ± 2.085
3600
3400
3200
3000
2800
2600
2400

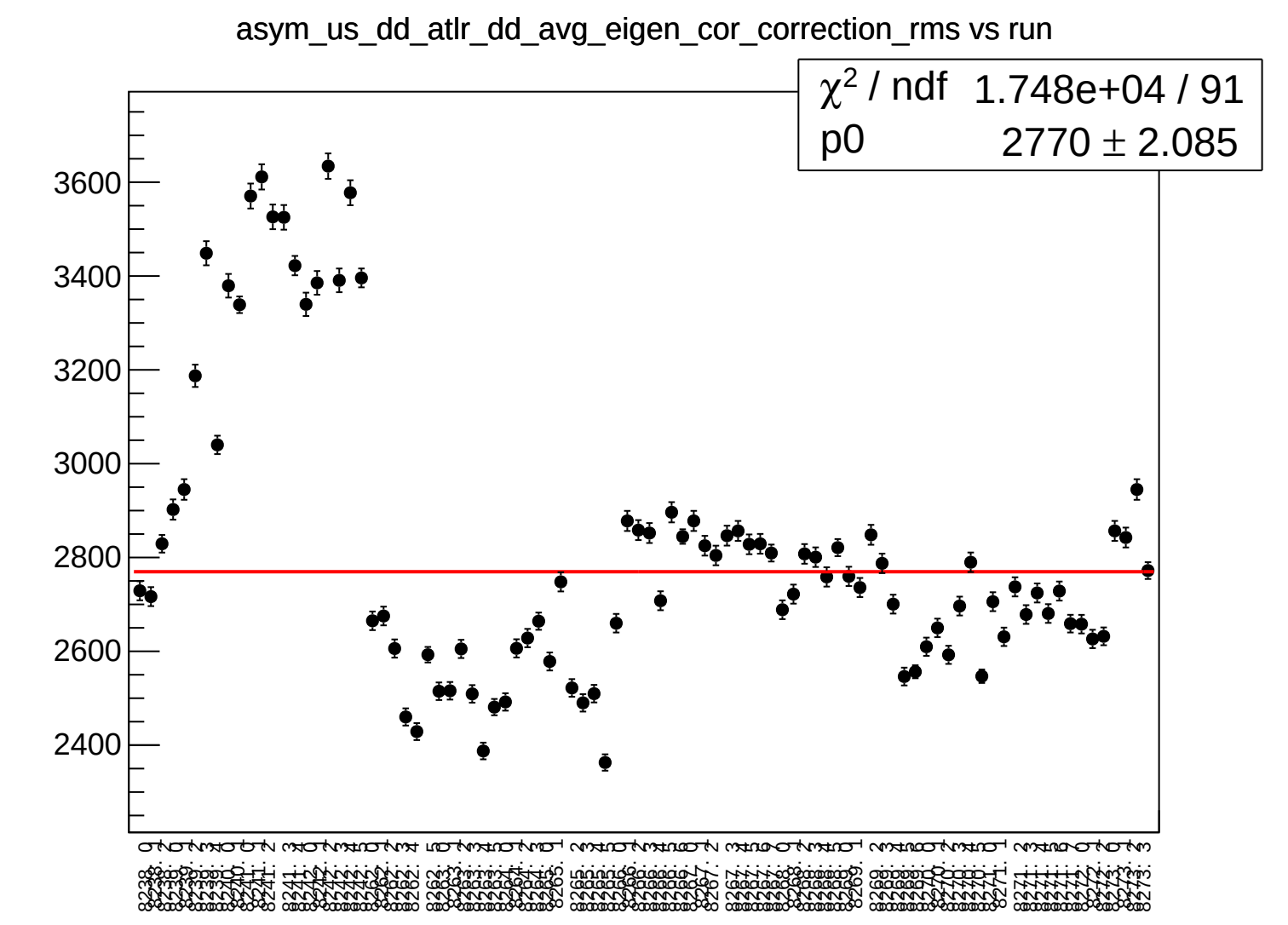

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 80.62 / 91
p0 46.18 ± 1899
pull
Entries 92
Mean 338.8
Std Dev 0

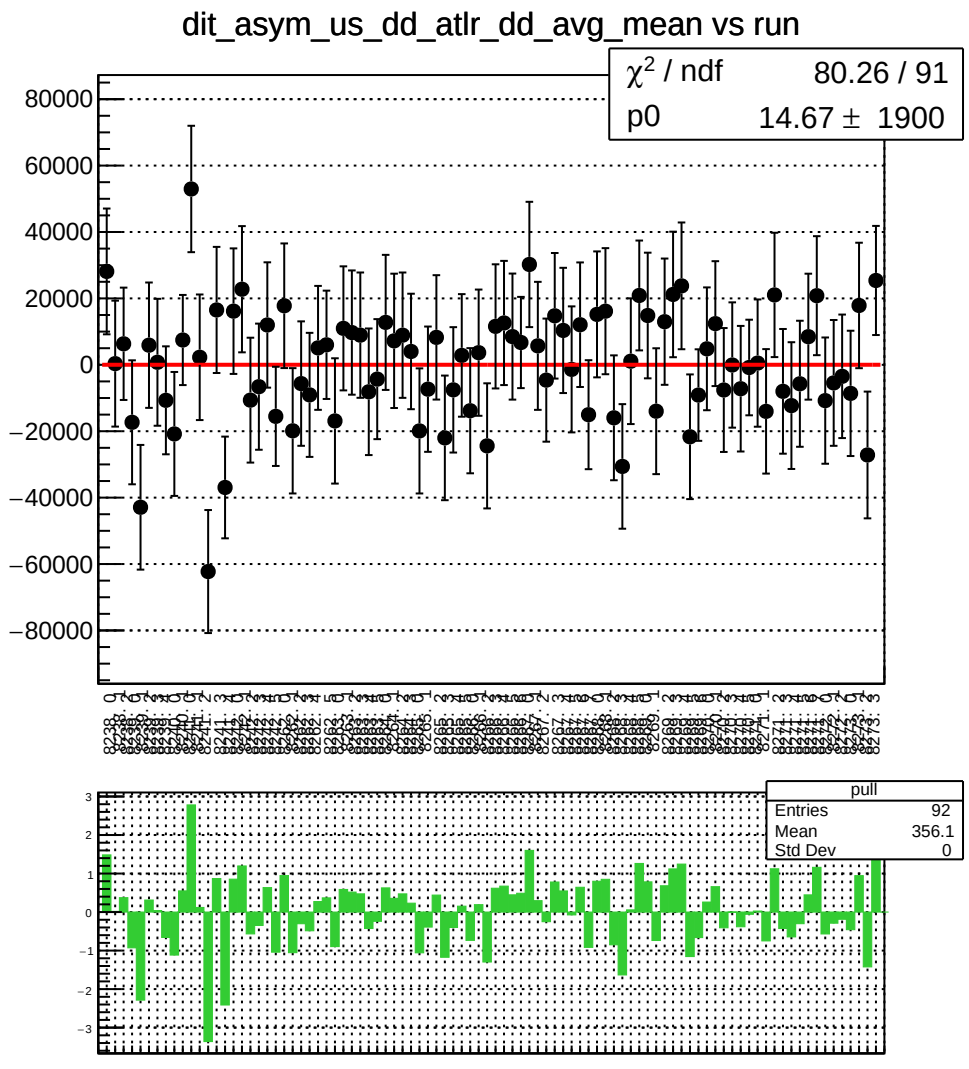

pull1D
Entries 92
Mean 0.00678
Std Dev 0.9361

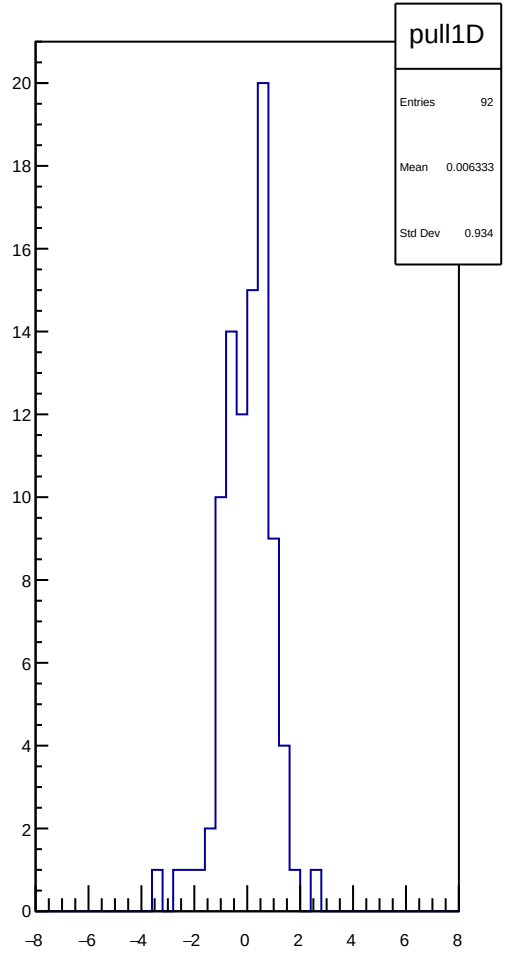

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 281.1 / 91
p0 1792 ± 1.342
1950
1900
1850
1800
1750

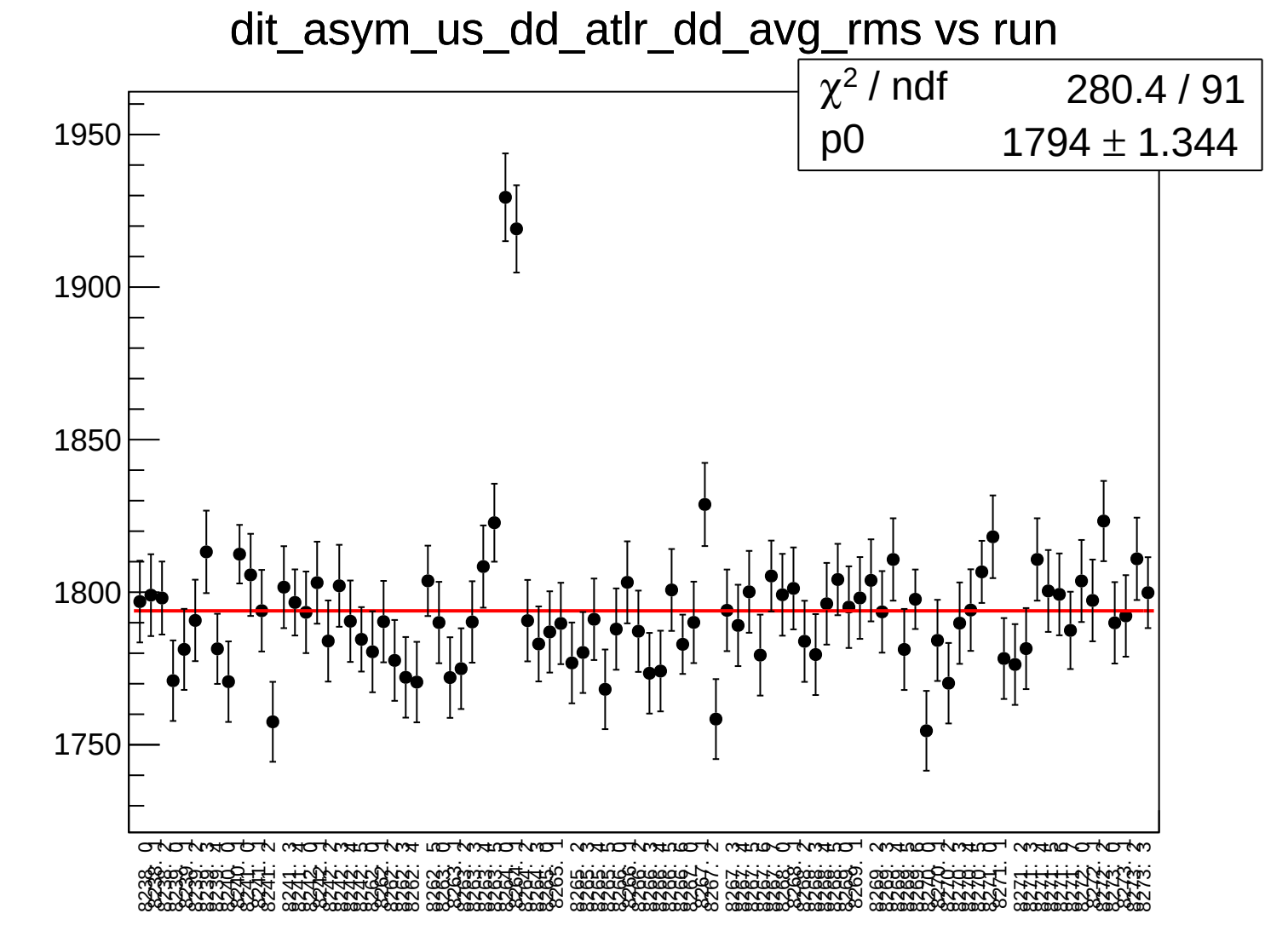

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 66.42 / 91
p0 −8244 ± 2948
pull
Entries 92
Mean −564.2
Std Dev 0

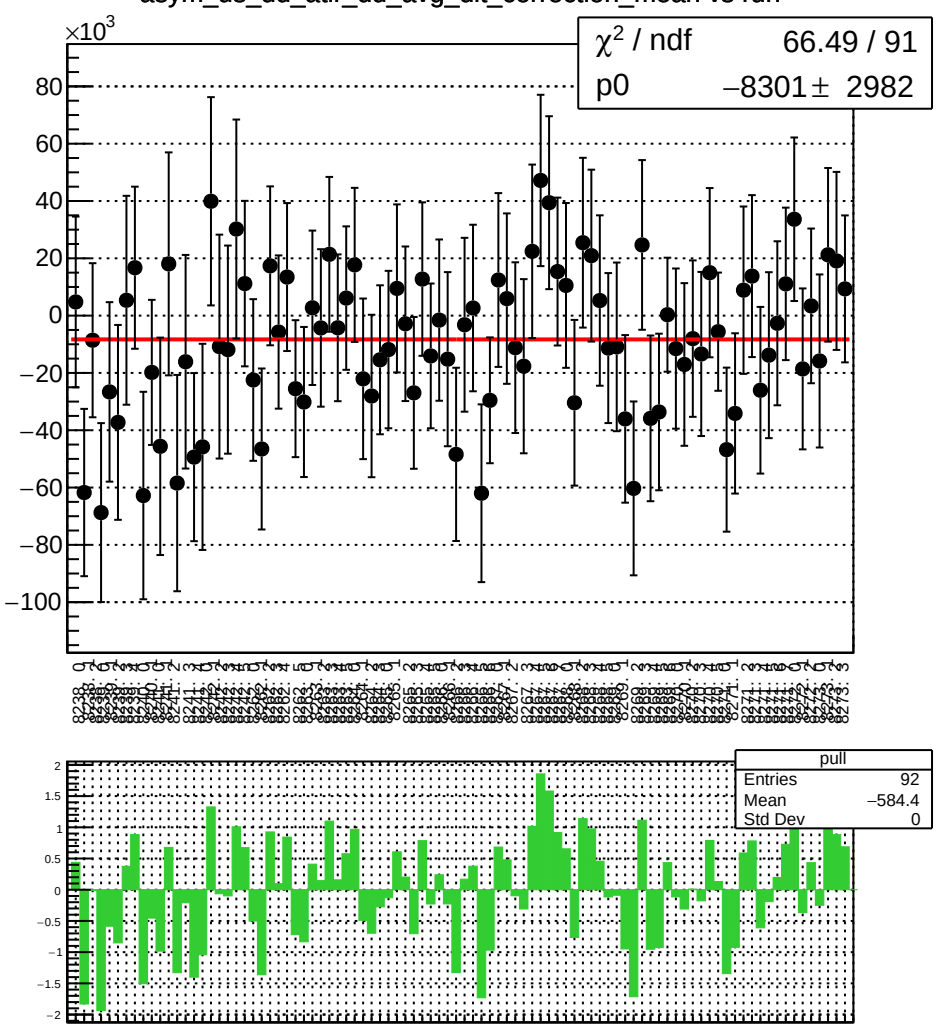

pull1D
Entries 92
Mean −0.008283
Std Dev 0.8496

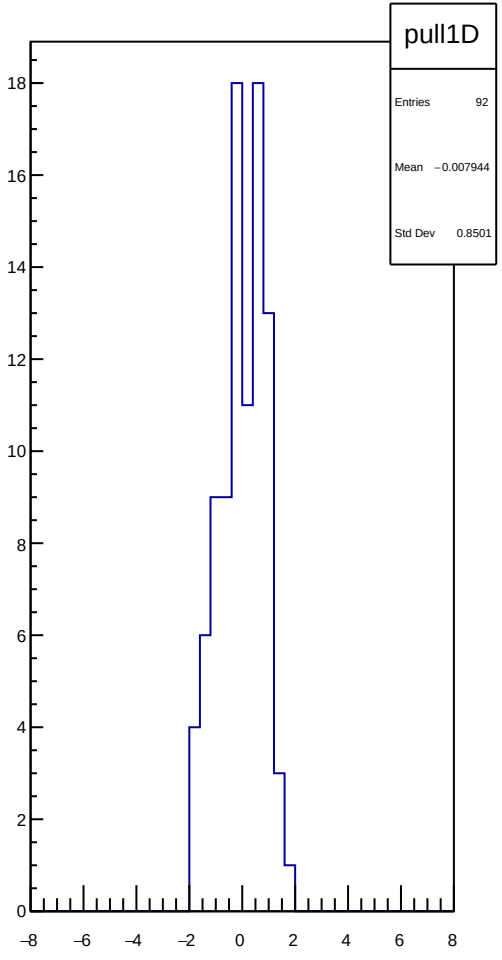

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 1.748e+04 / 91
p0 2770 ± 2.085
3600
3400
3200
3000
2800
2600
2400

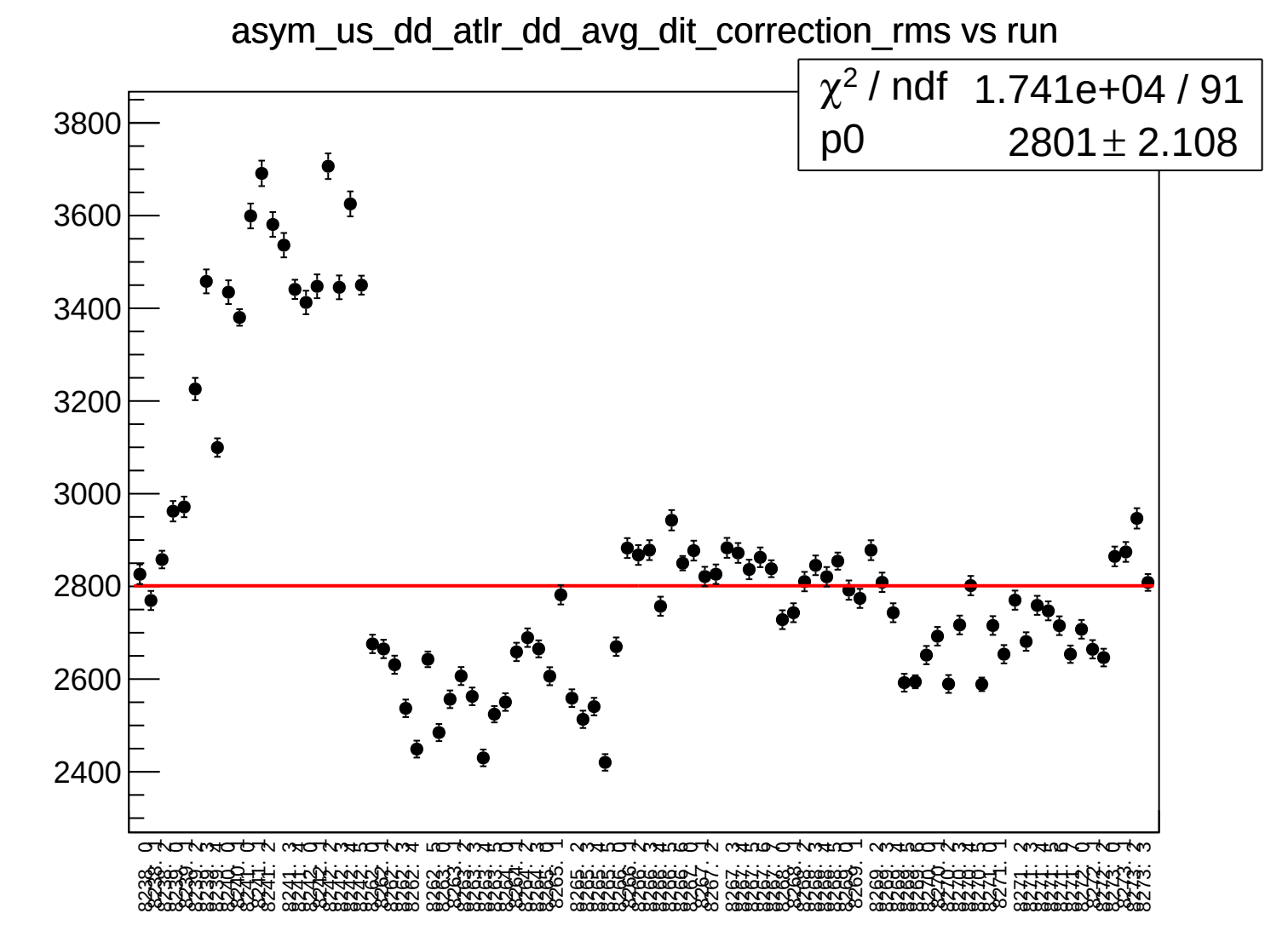

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 80.26 / 91
p0 14.67 ± 1900
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 356.1
Std Dev 0
3
2
1
0
−1
−2
−3

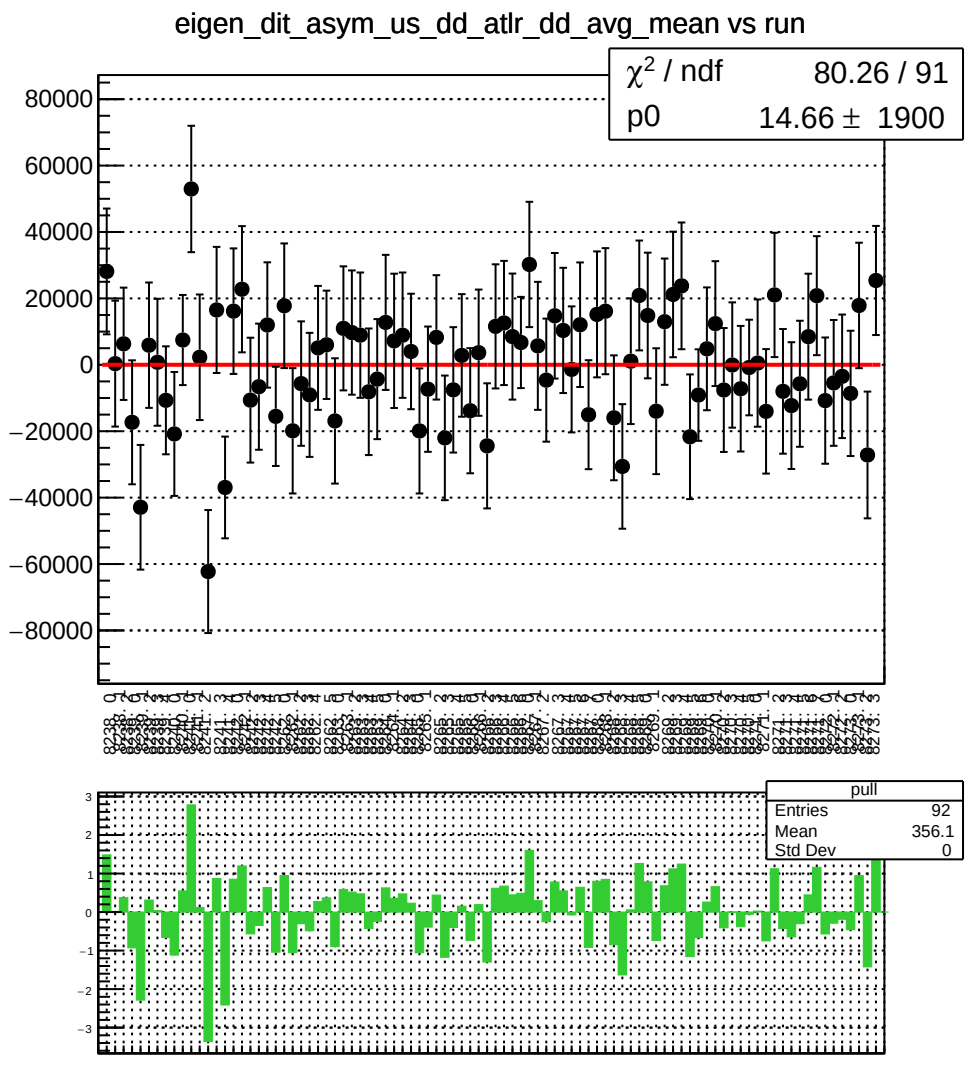

pull1D
Entries 92
Mean 0.006333
Std Dev 0.934
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

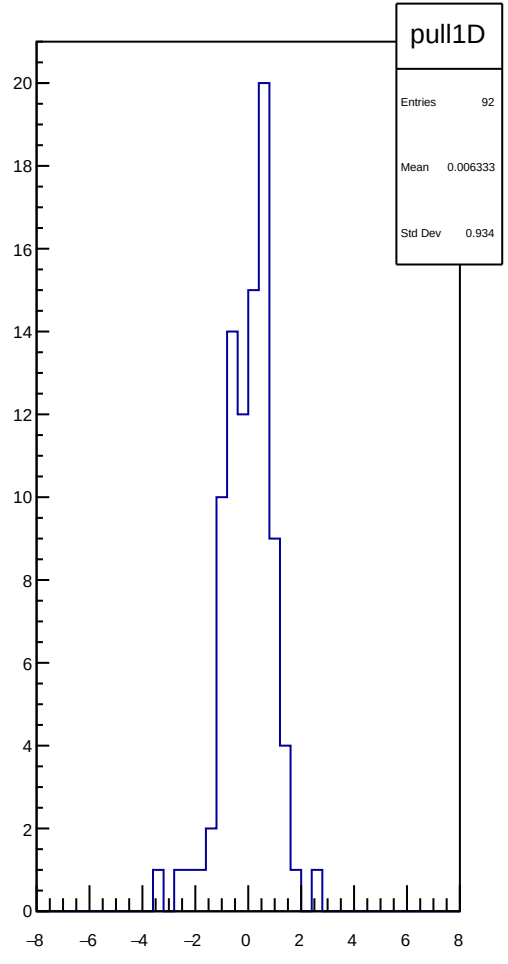

dit_asym_us_dd_atlr_dd_avg_rms vs run
$\chi^2$ / ndf 280.4 / 91
p0 1794 ± 1.344
1950
1900
1850
1800
1750

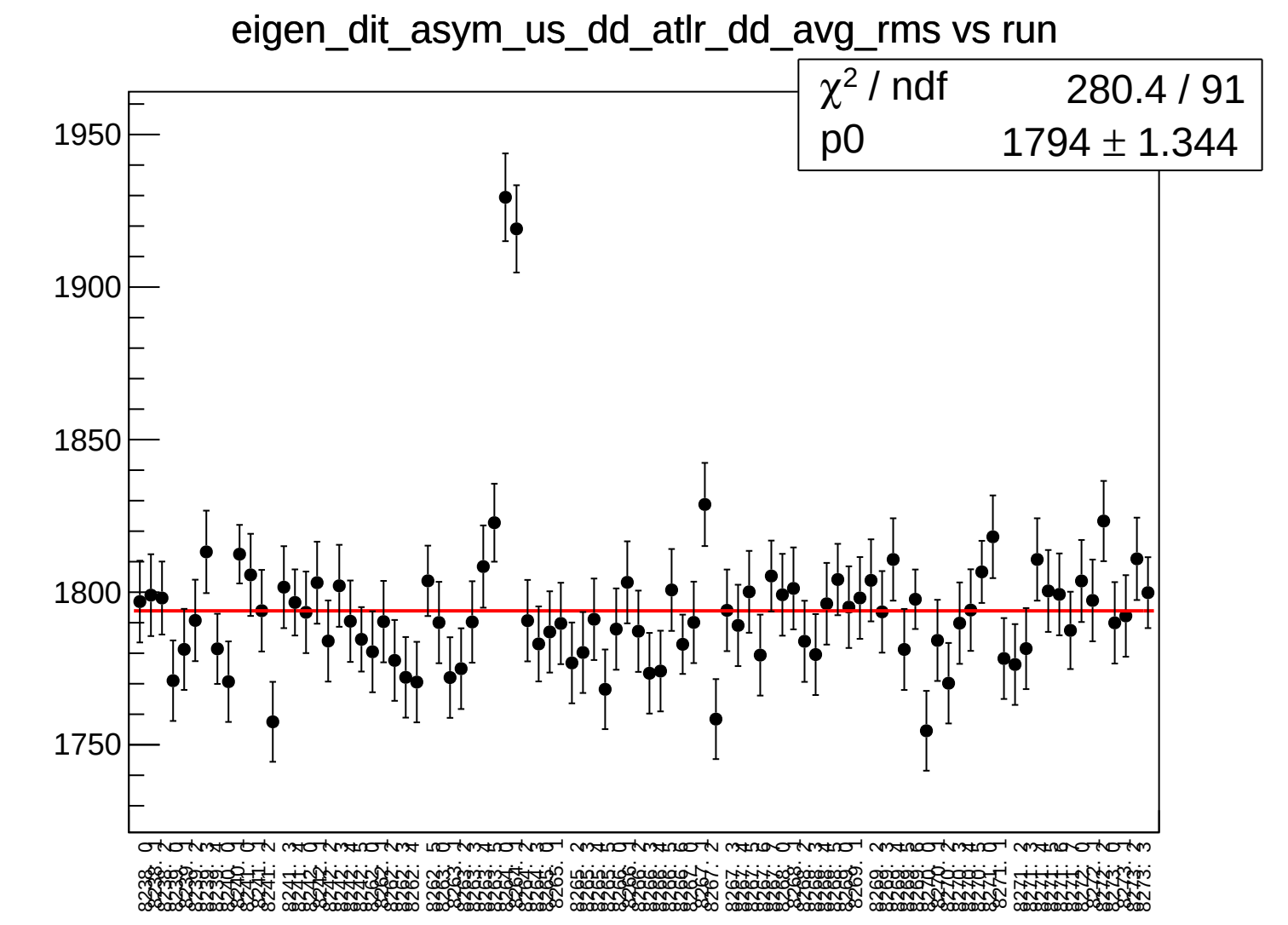

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 66.49 / 91
p0 −8301 ± 2982
pull
Entries 92
Mean −584.4
Std Dev 0

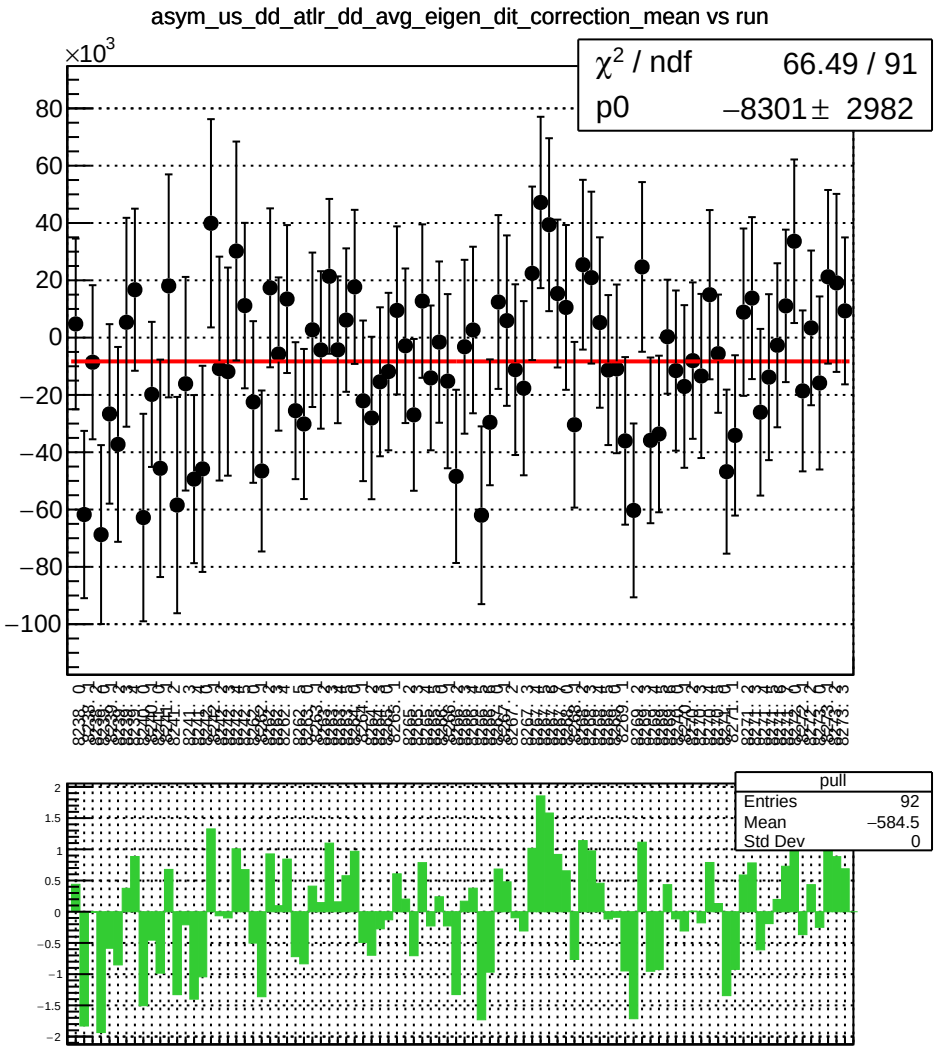

pull1D
Entries 92
Mean −0.007944
Std Dev 0.8501

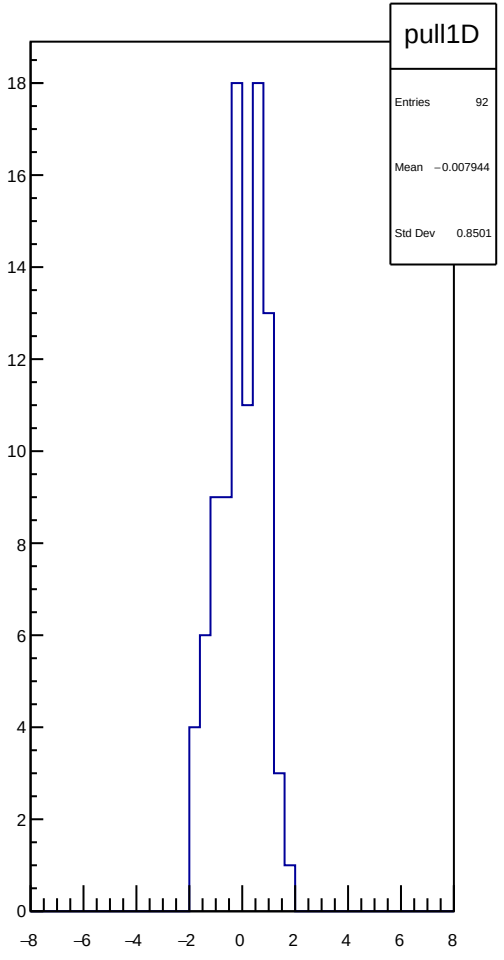

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.741e+04 / 91
p0 2801 ± 2.108
3800
3600
3400
3200
3000
2800
2600
2400

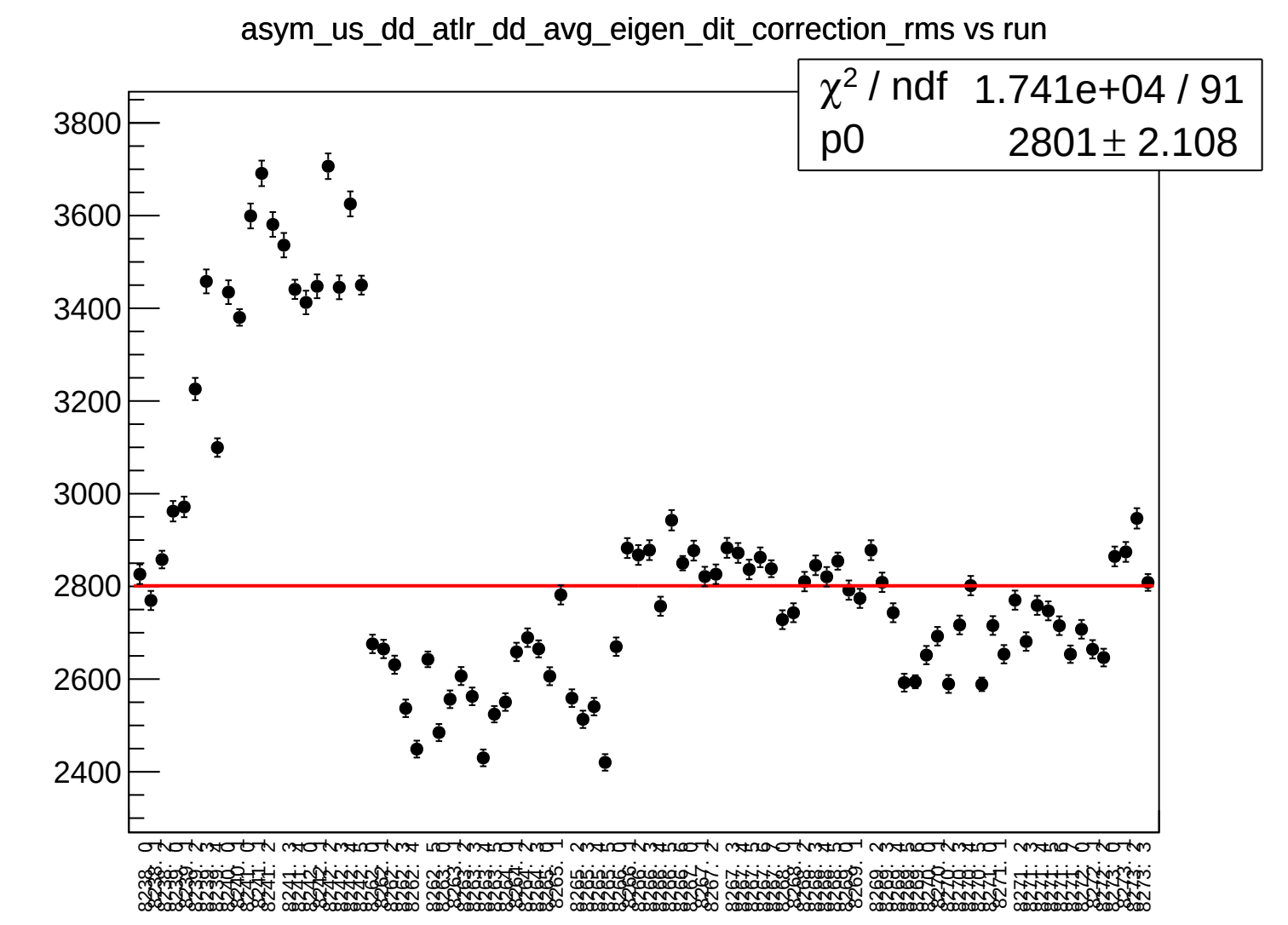

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 80.26 / 91
p0 14.66 ± 1900
pull
Entries 92
Mean 356.1
Std Dev 0

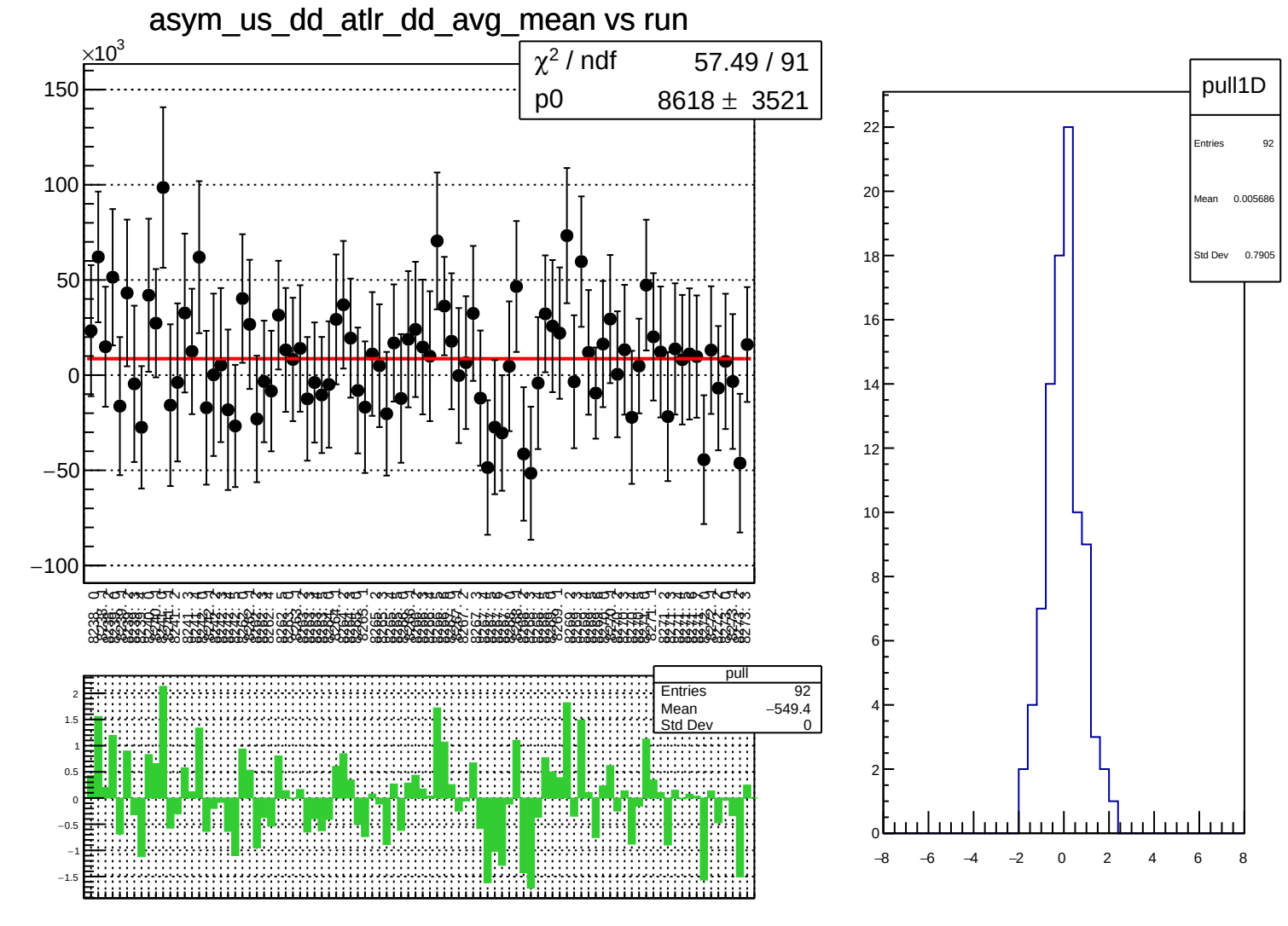

pull1D
Entries 92
Mean 0.006333
Std Dev 0.934

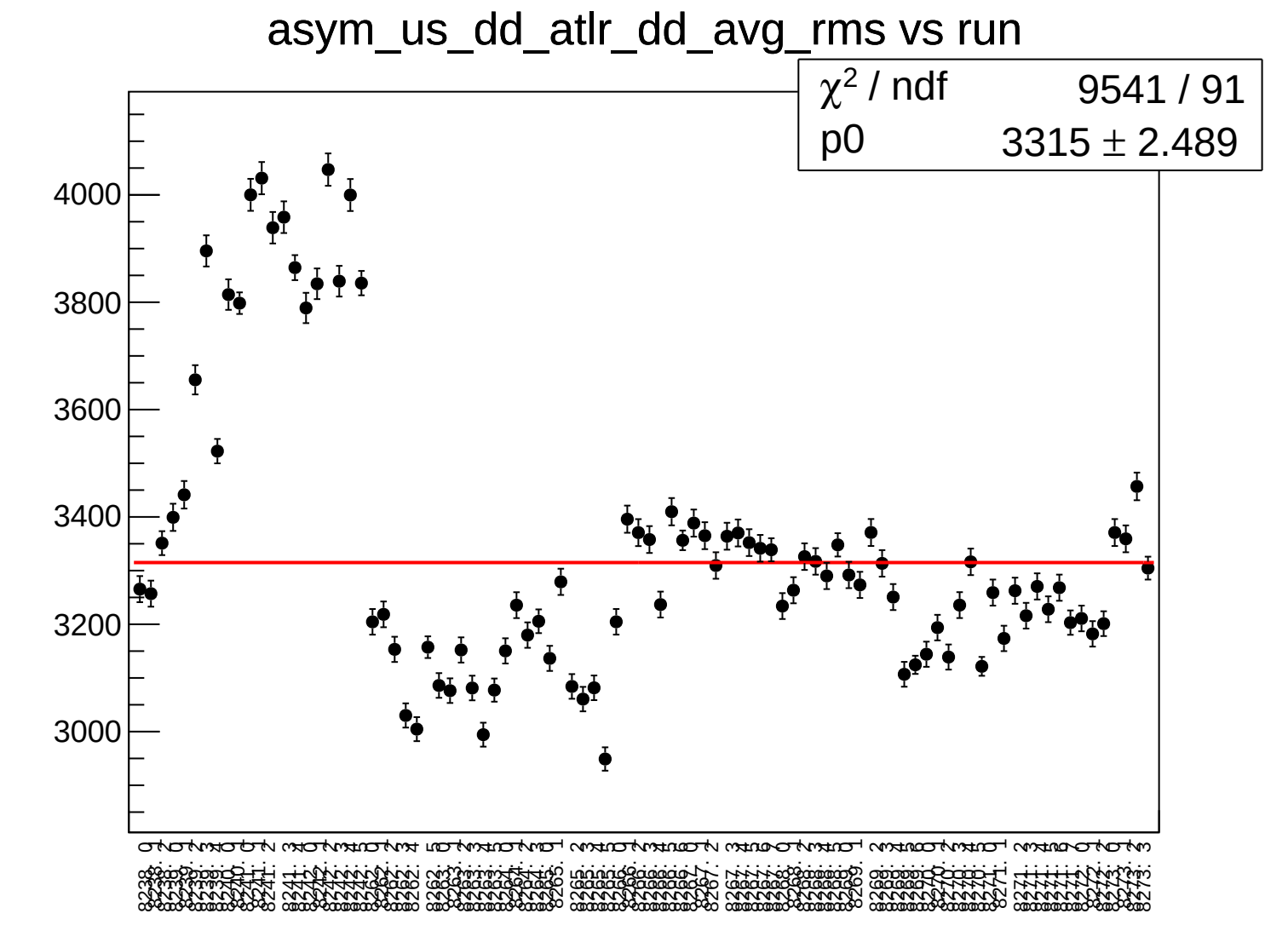

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 280.4 / 91
p0 1794 ± 1.344
1950
1900
1850
1800
1750

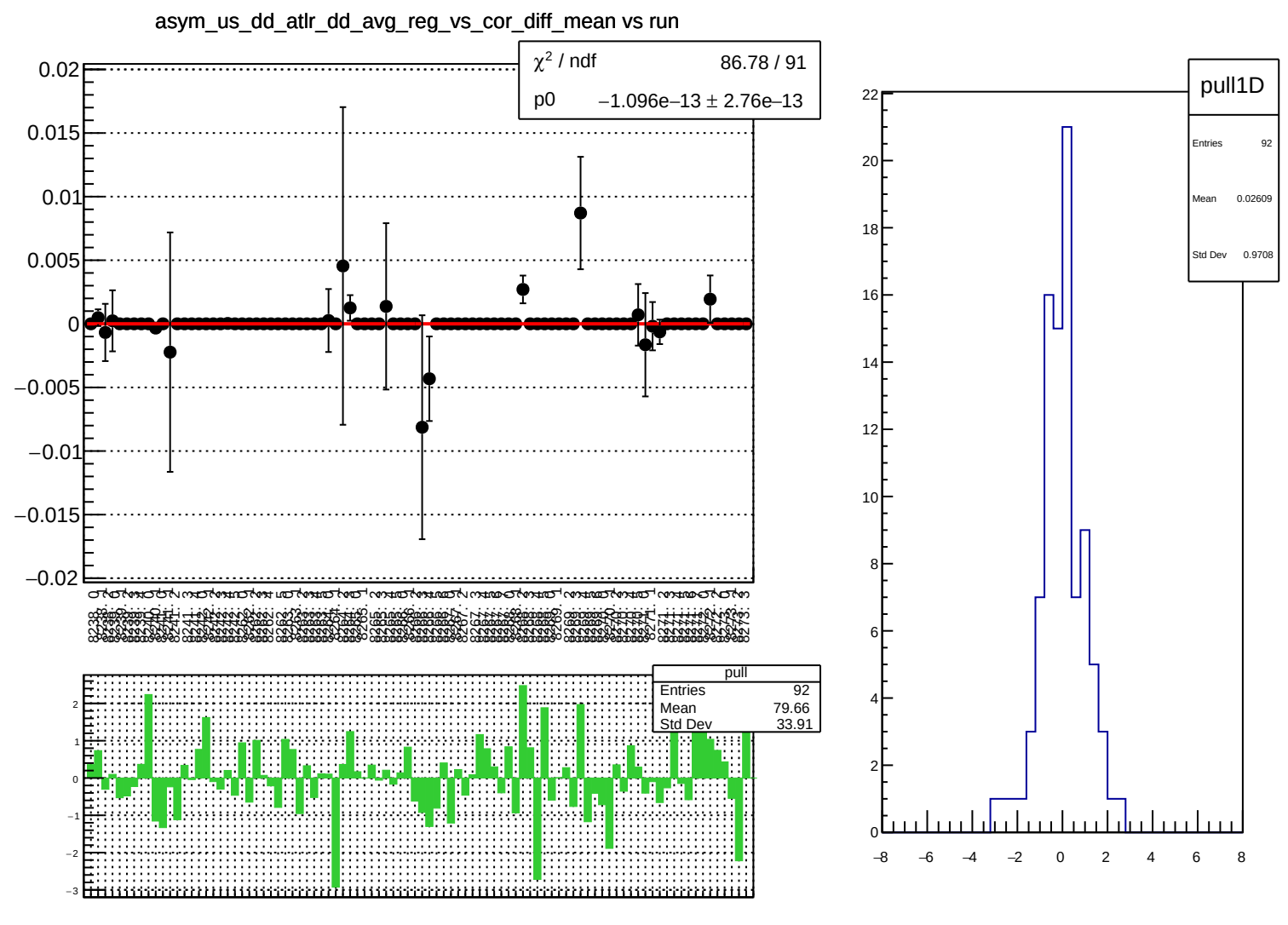

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.49 / 91
p0 −8301 ± 2982
pull
Entries 92
Mean −584.5
Std Dev 0

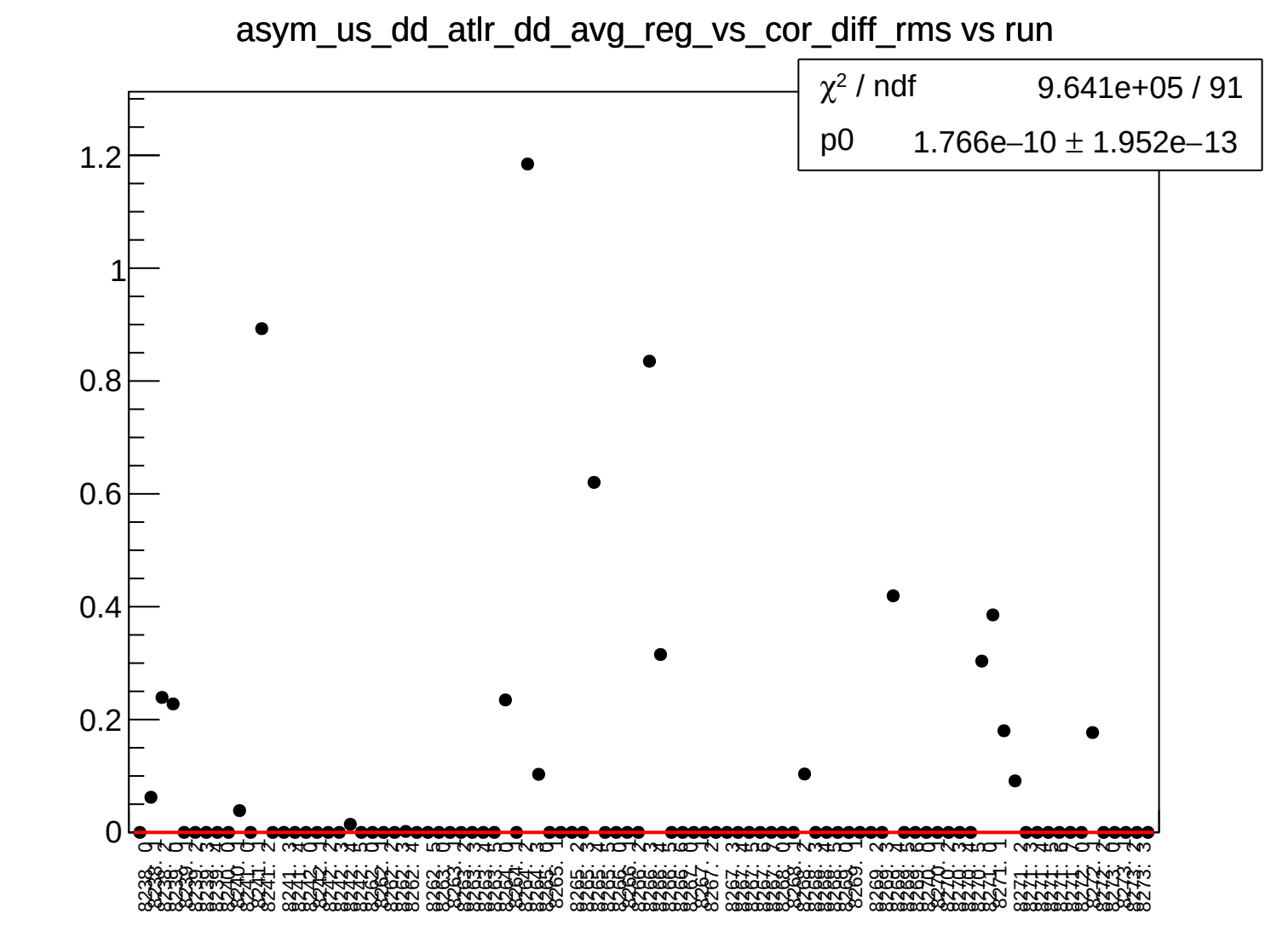

pull1D
Entries 92
Mean −0.007944
Std Dev 0.8501

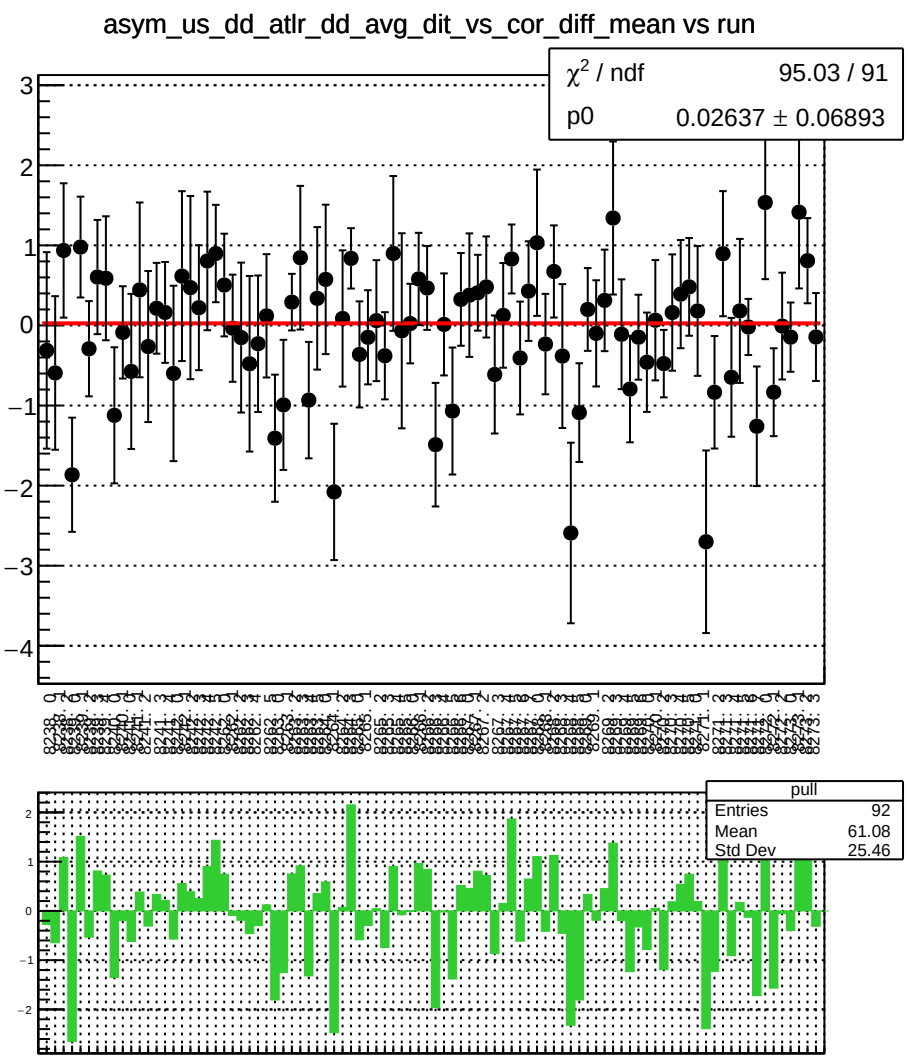

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.741e+04 / 91
p0 2801 ± 2.108
3800
3600
3400
3200
3000
2800
2600
2400

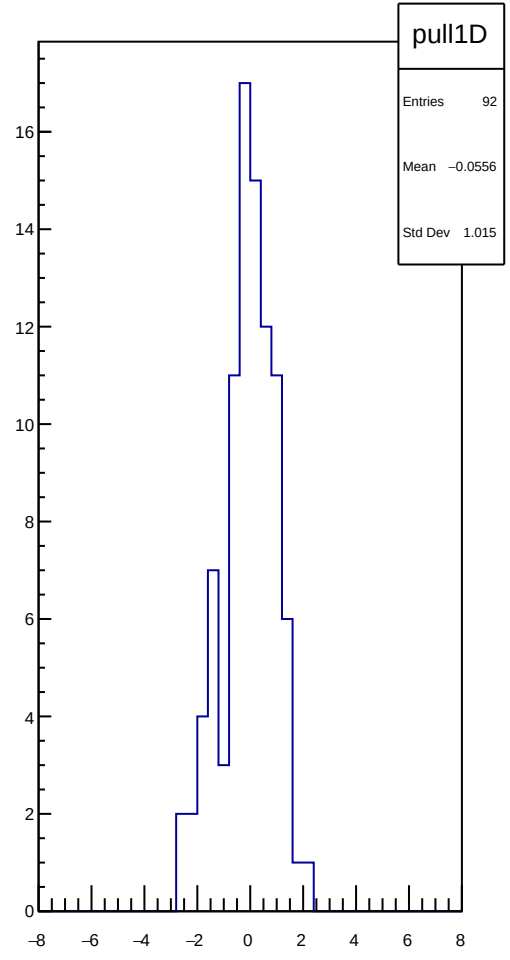

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ^2 / ndf 57.49 / 91
p0 8618 ± 3521
150
100
50
0
−50
−100
pull
Entries 92
Mean −549.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean 0.005686
Std Dev 0.7905
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

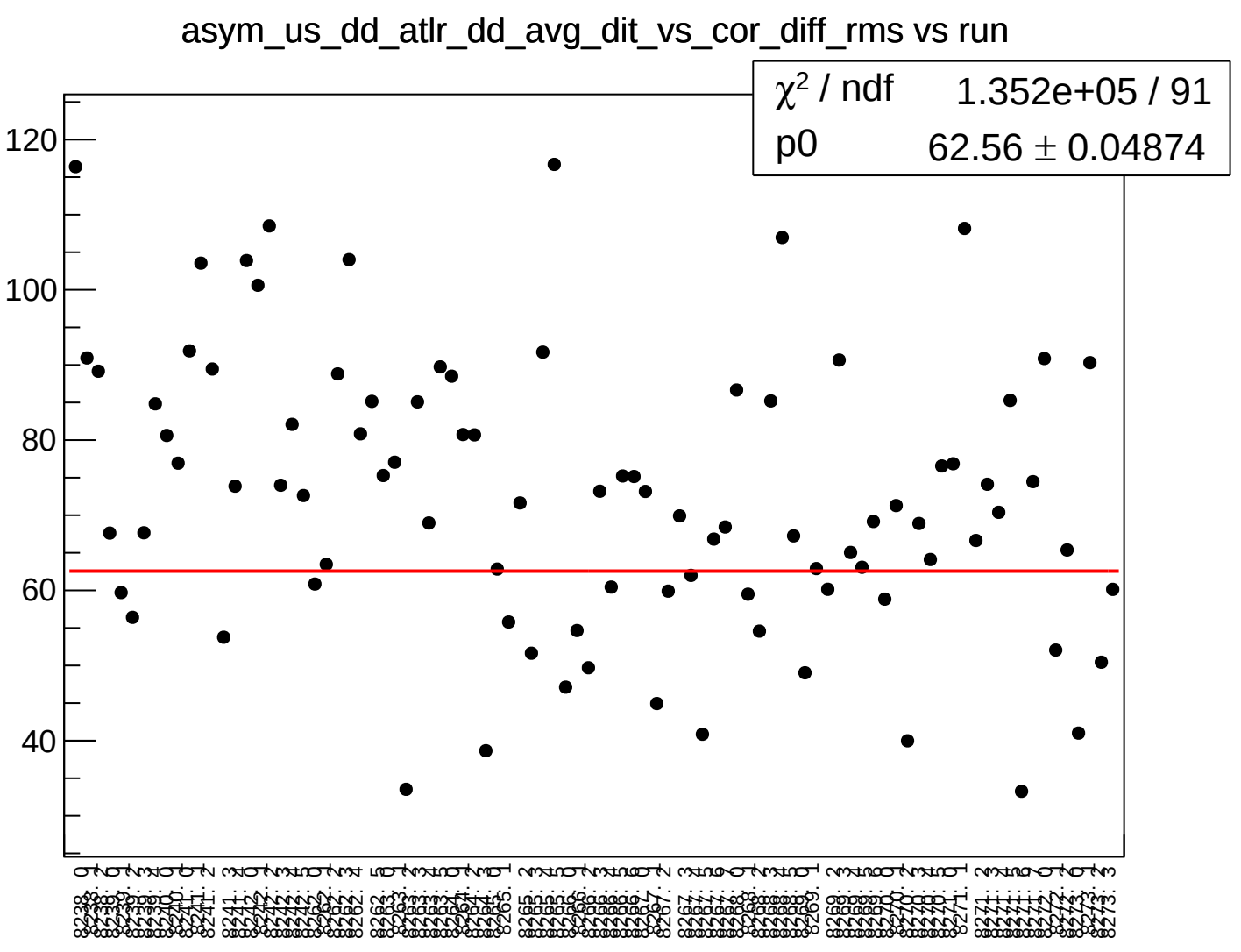

asym_us_dd_atlr_dd_avg_rms vs run
$\chi^2$ / ndf 9541 / 91
p0 3315 ± 2.489
4000
3800
3600
3400
3200
3000

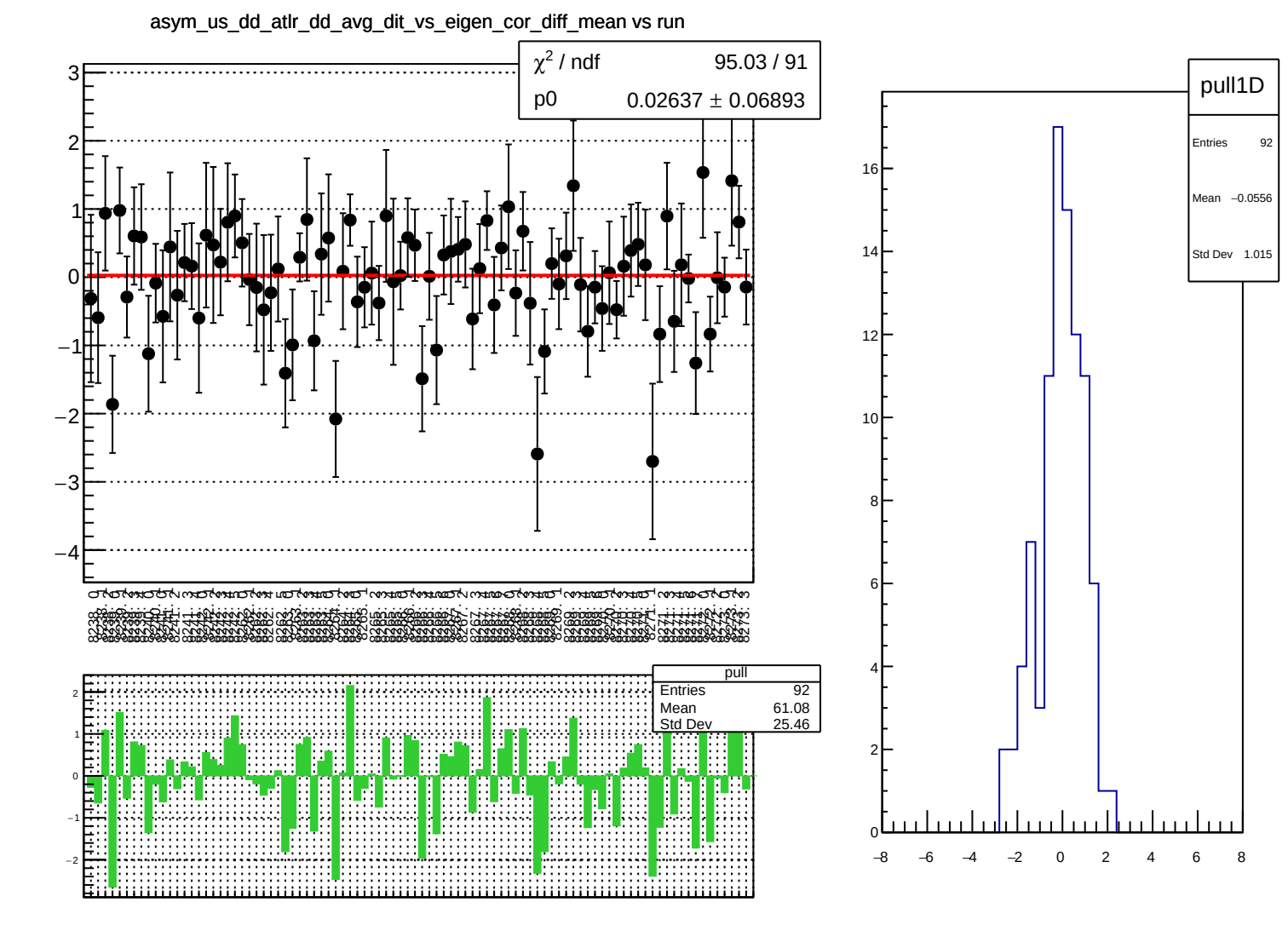

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.78 / 91
p0 −1.096e−13 ± 2.76e−13
pull
Entries 92
Mean 79.66
Std Dev 33.91
pull1D
Entries 92
Mean 0.02609
Std Dev 0.9708

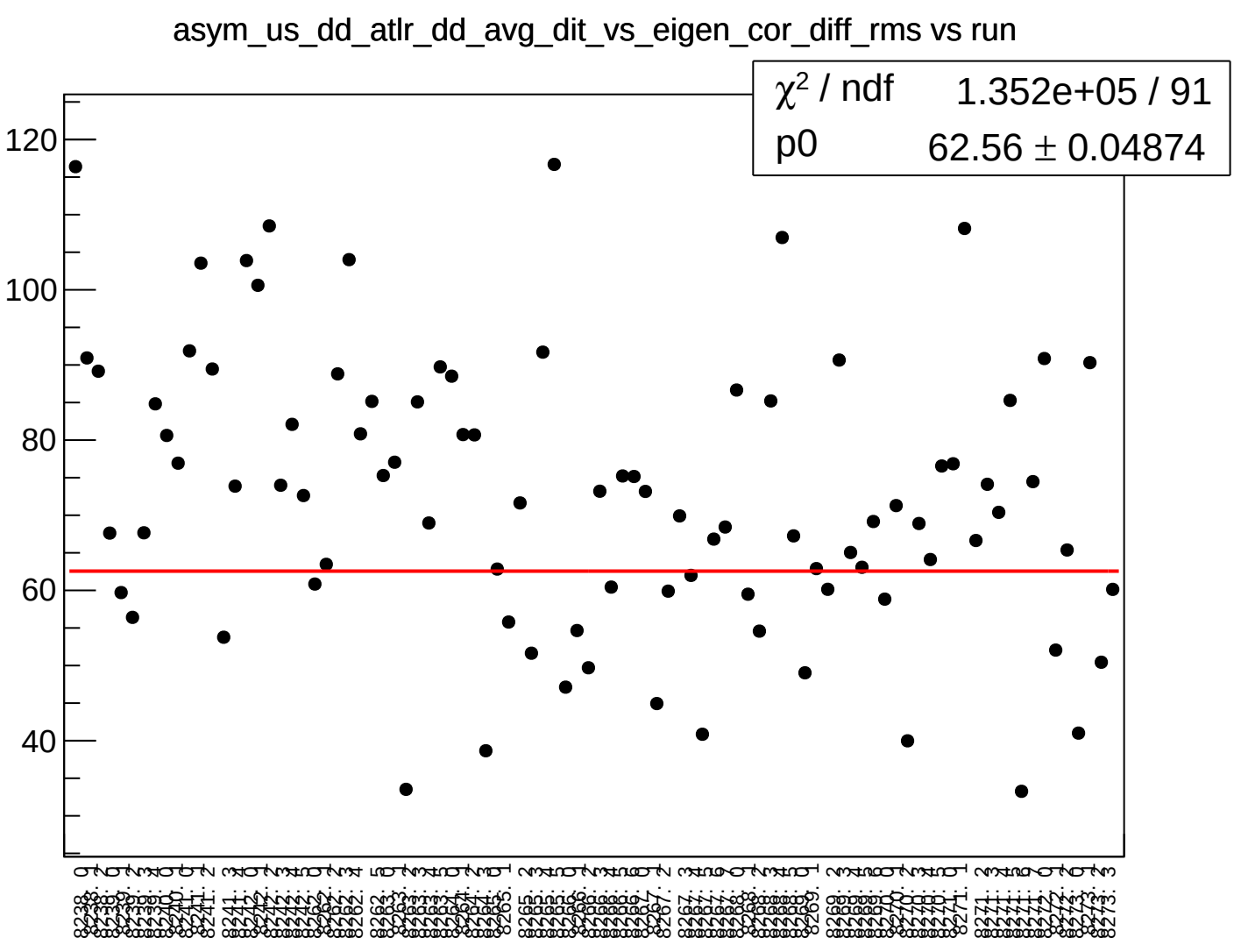

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.641e+05 / 91
p0 1.766e−10 ± 1.952e−13
1.2
1
0.8
0.6
0.4
0.2
0

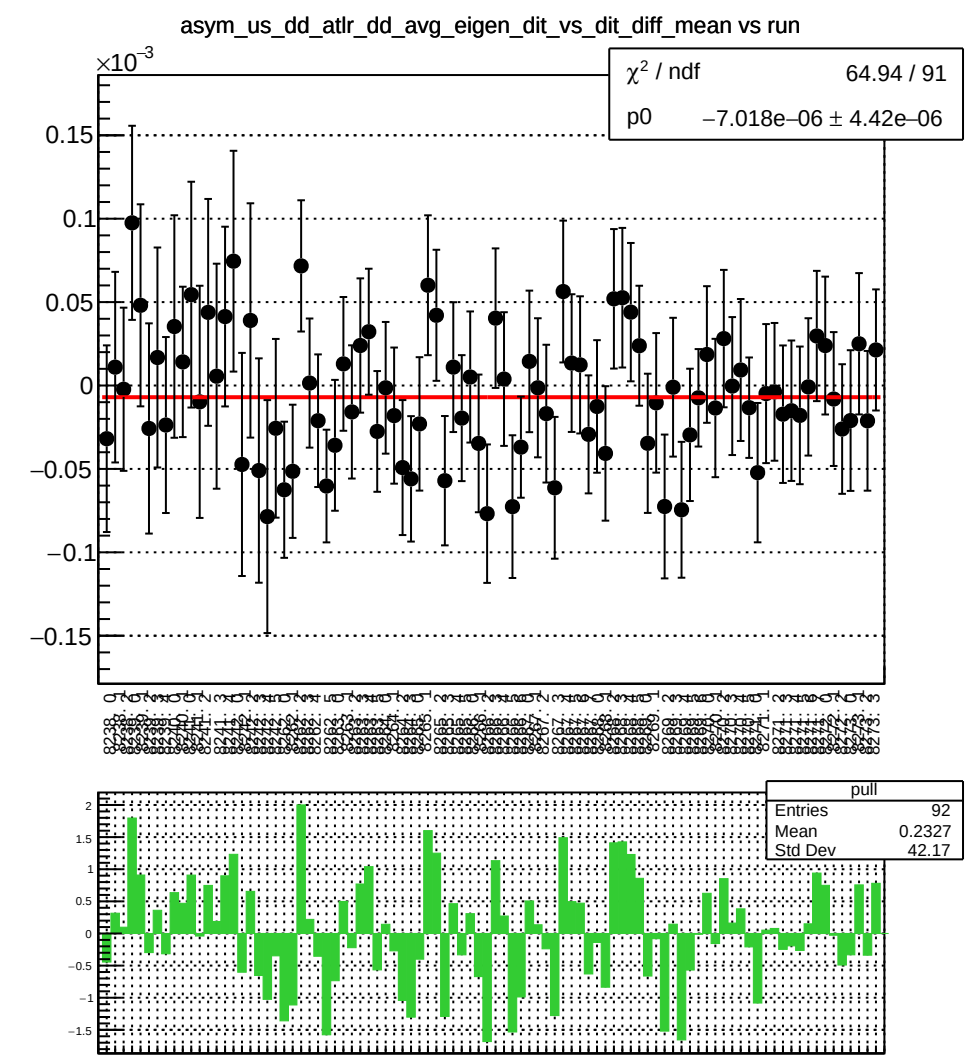

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.03 / 91
p0 0.02637 ± 0.06893
pull
Entries 92
Mean 61.08
Std Dev 25.46

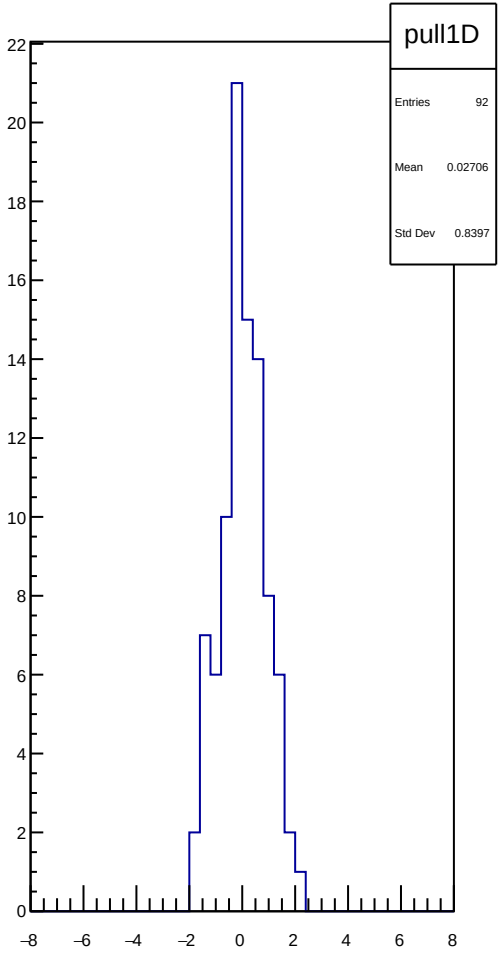

pull1D
Entries 92
Mean −0.0556
Std Dev 1.015

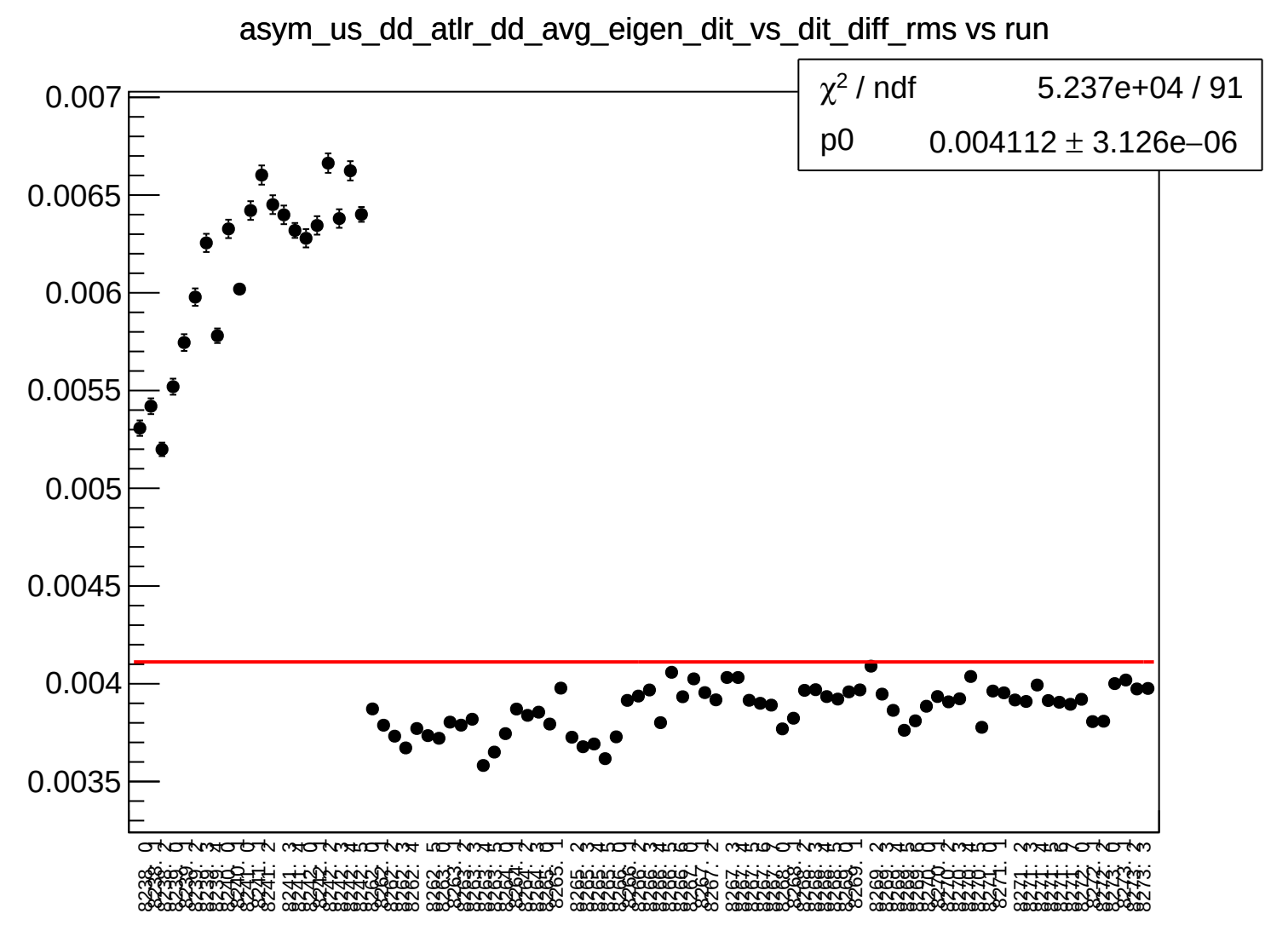

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.352e+05 / 91
p0 62.56 ± 0.04874
120
100
80
60
40

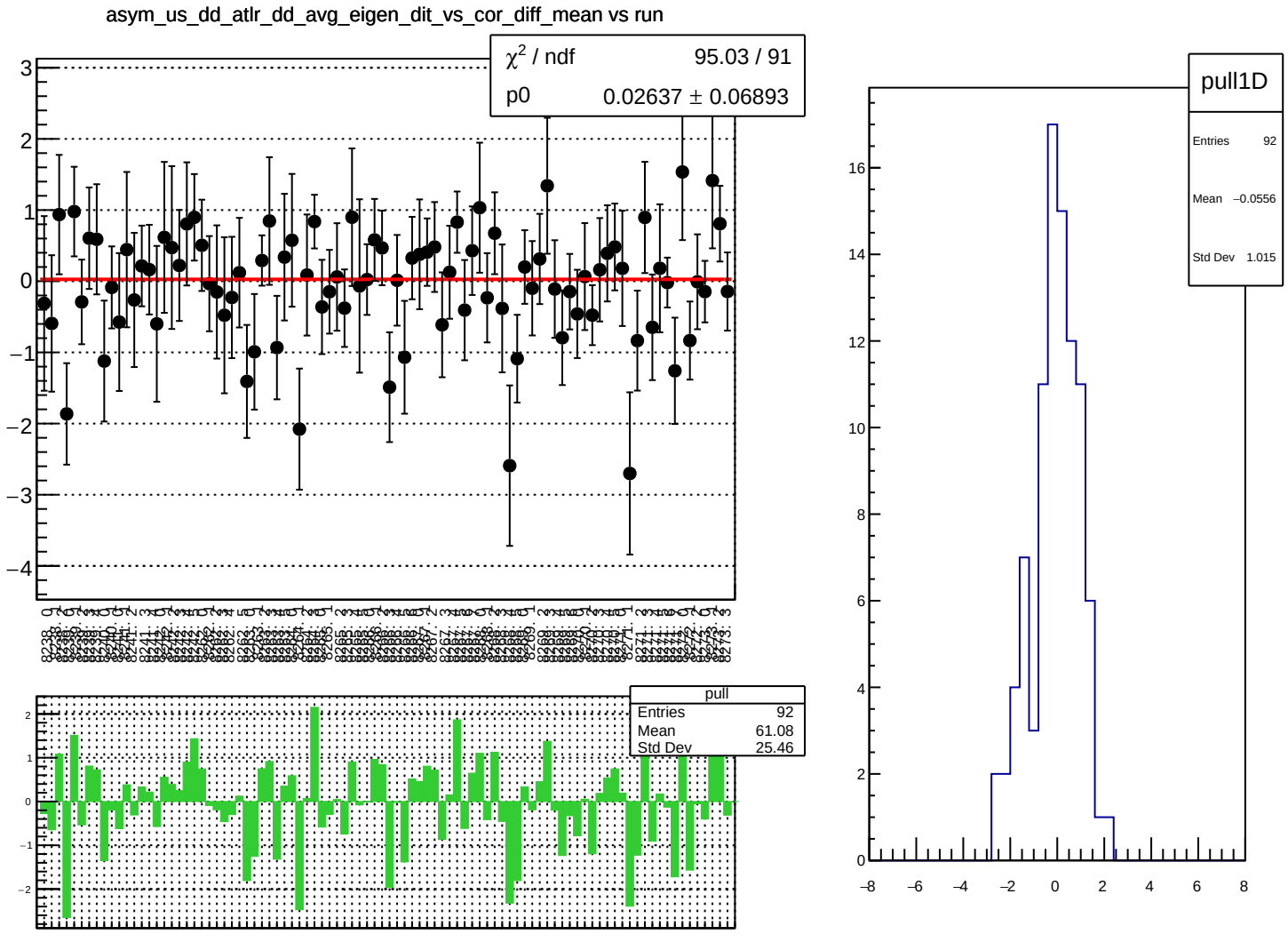

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.03 / 91
p0 0.02637 ± 0.06893
pull
Entries 92
Mean 61.08
Std Dev 25.46
pull1D
Entries 92
Mean −0.0556
Std Dev 1.015

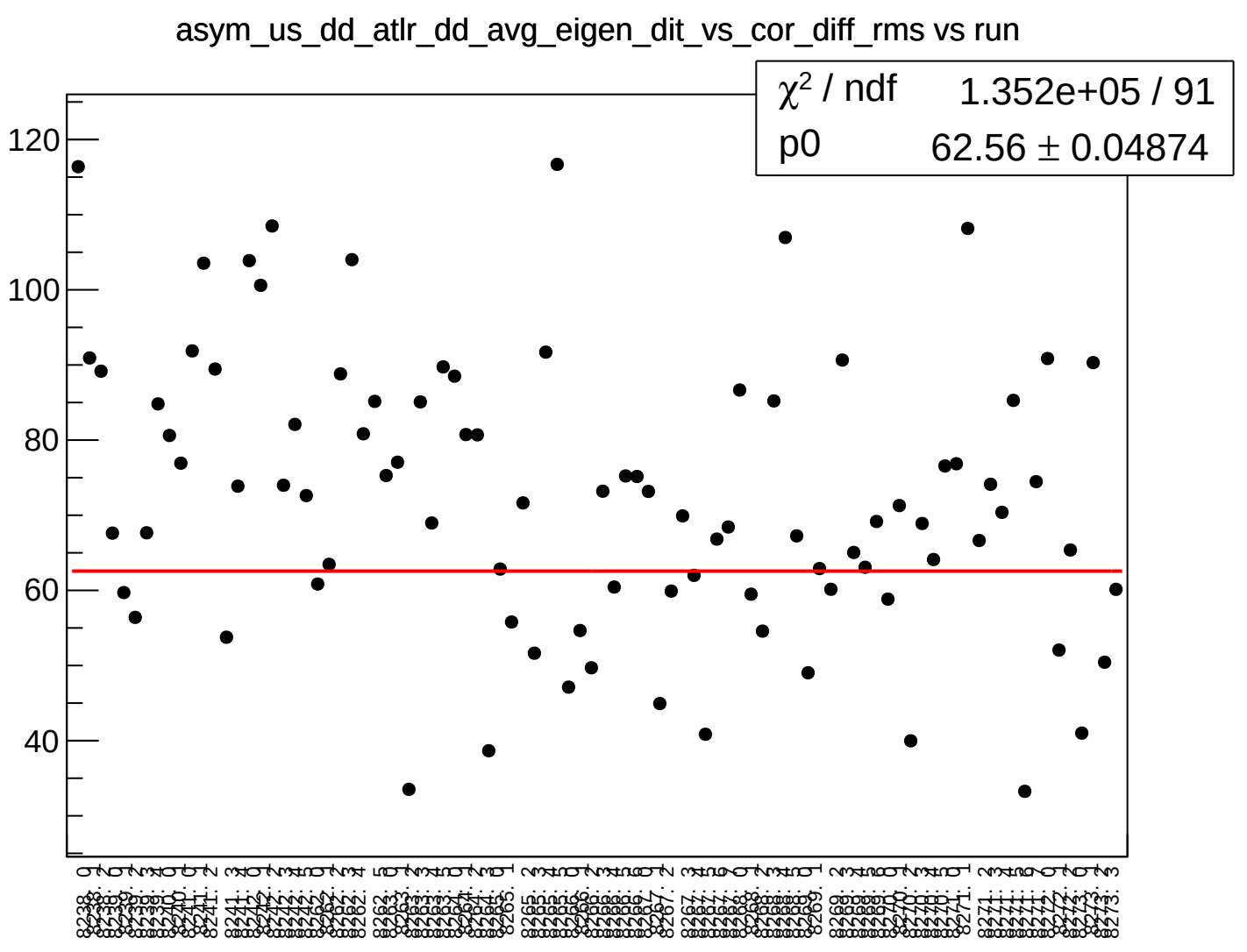

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.352e+05 / 91
p0 62.56 ± 0.04874
120
100
80
60
40

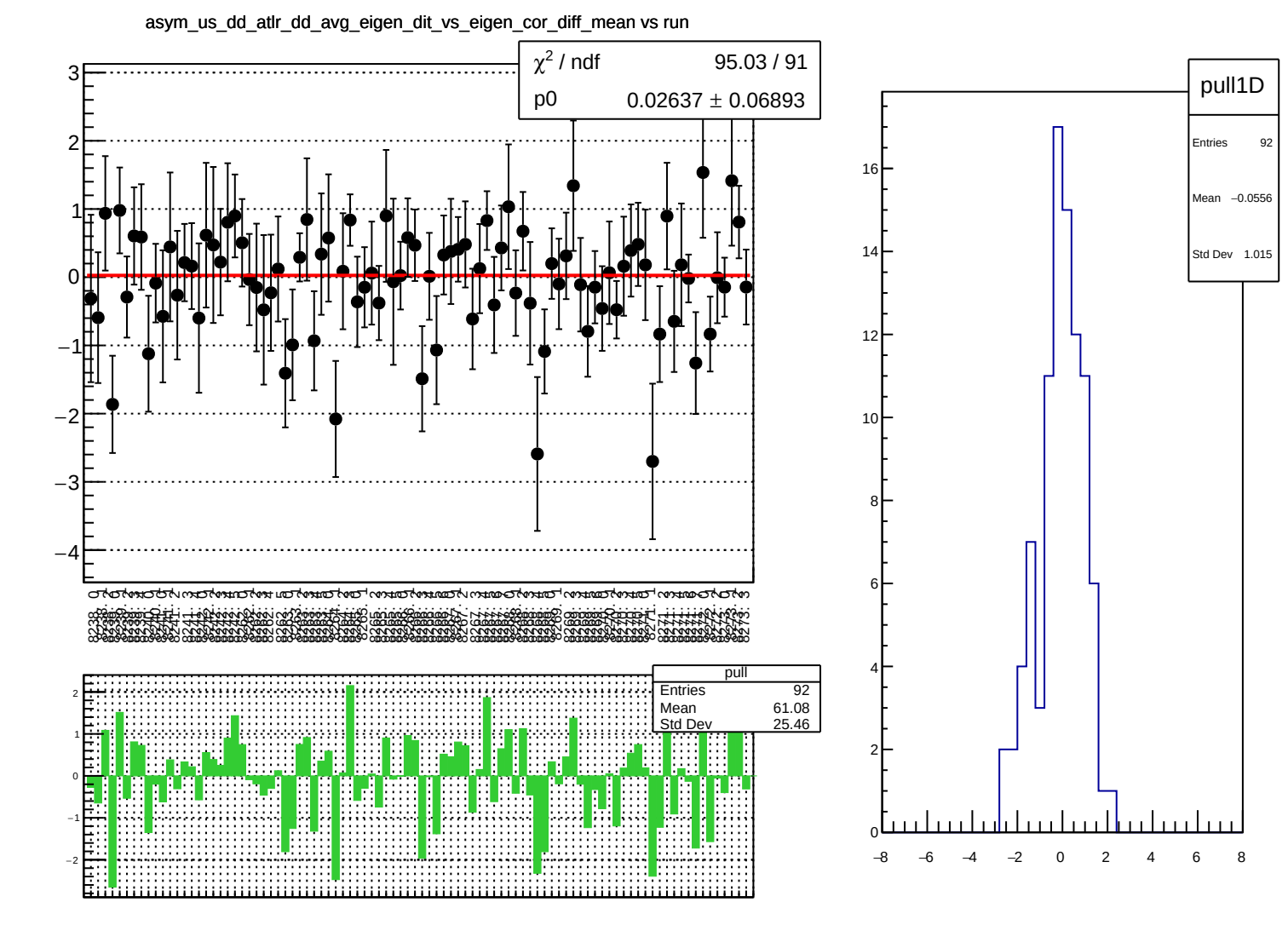

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 64.94 / 91
p0 −7.018e−06 ± 4.42e−06
pull
Entries 92
Mean 0.2327
Std Dev 42.17

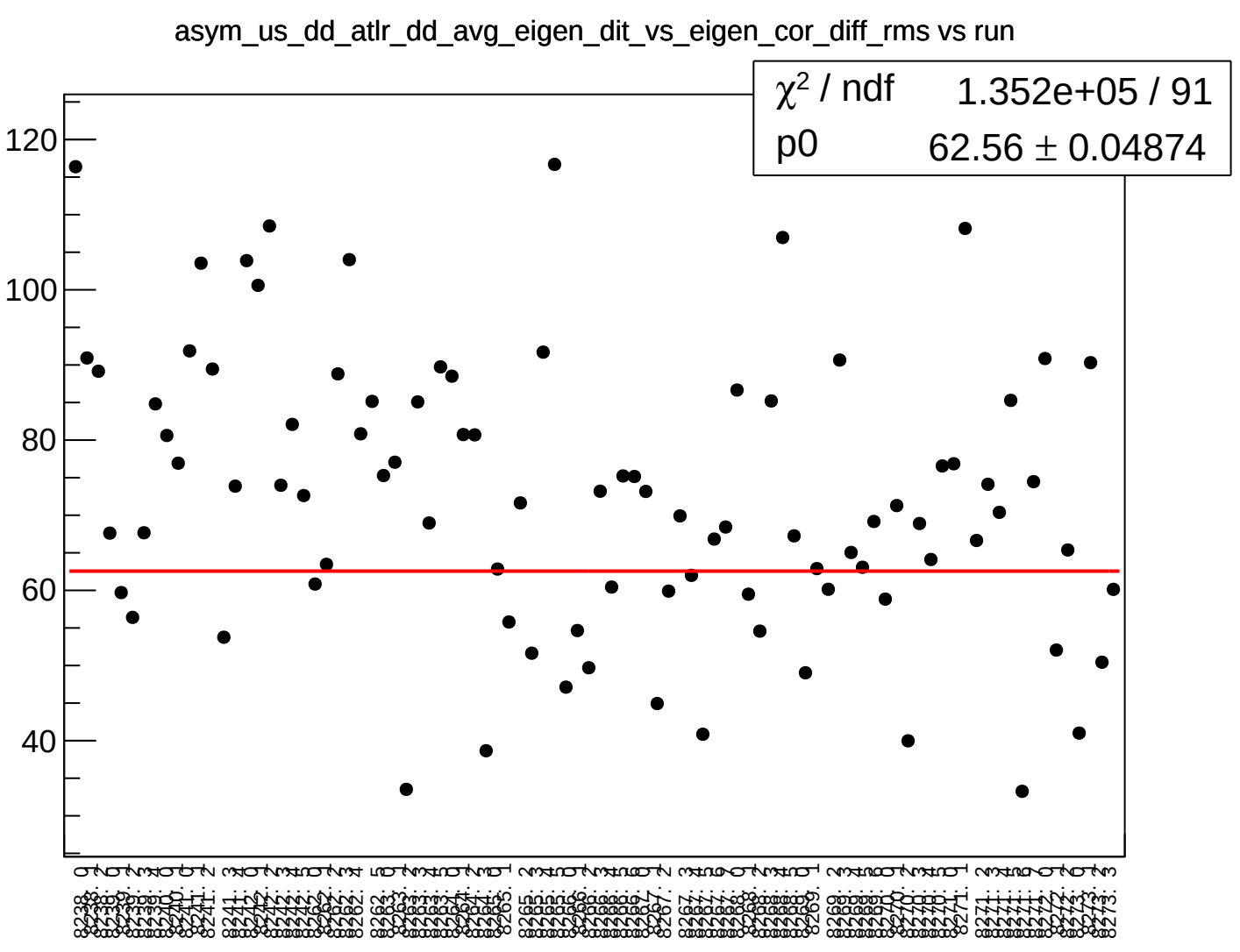

pull1D
Entries 92
Mean 0.02706
Std Dev 0.8397

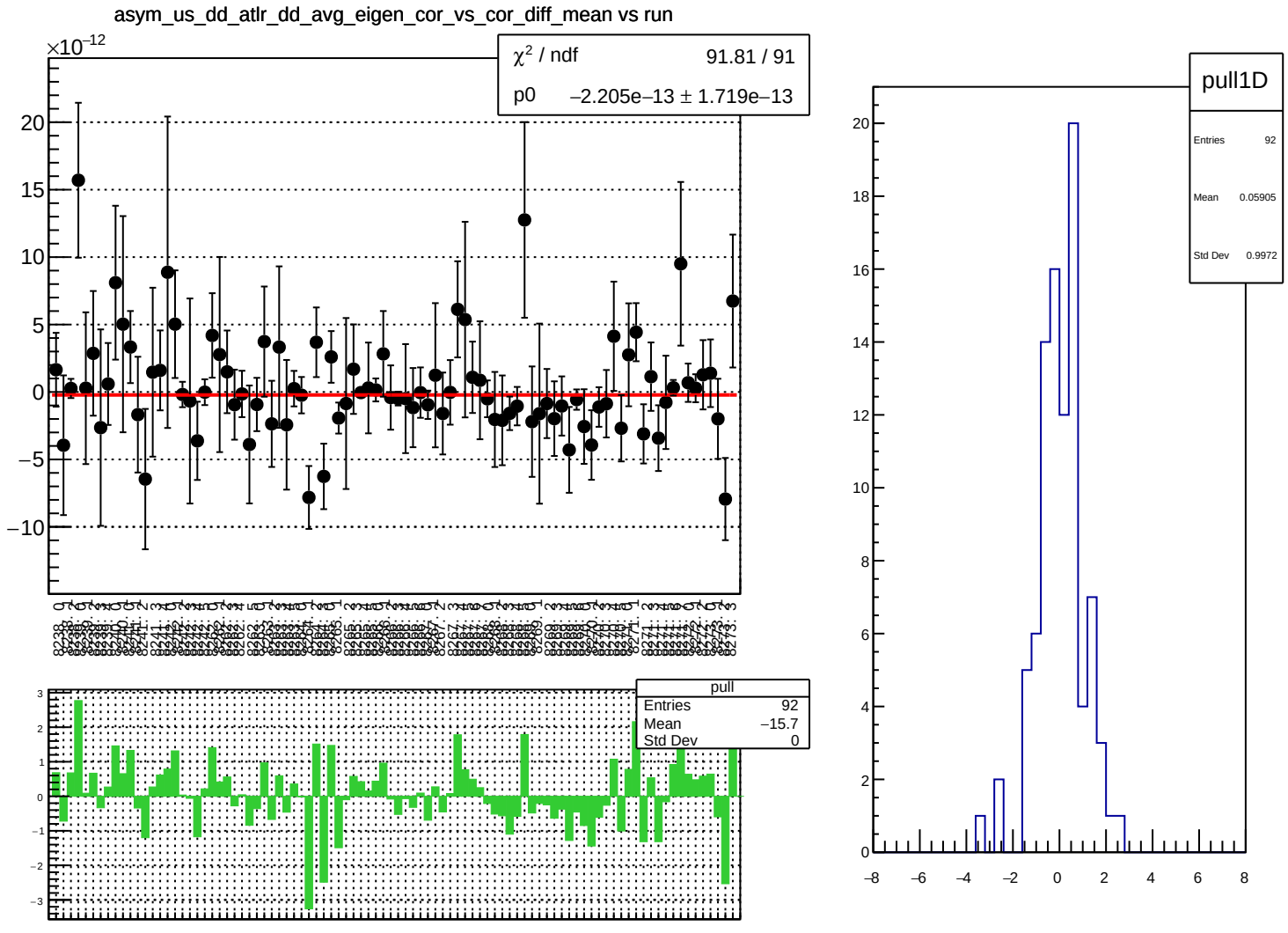

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.237e+04 / 91
p0 0.004112 ± 3.126e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

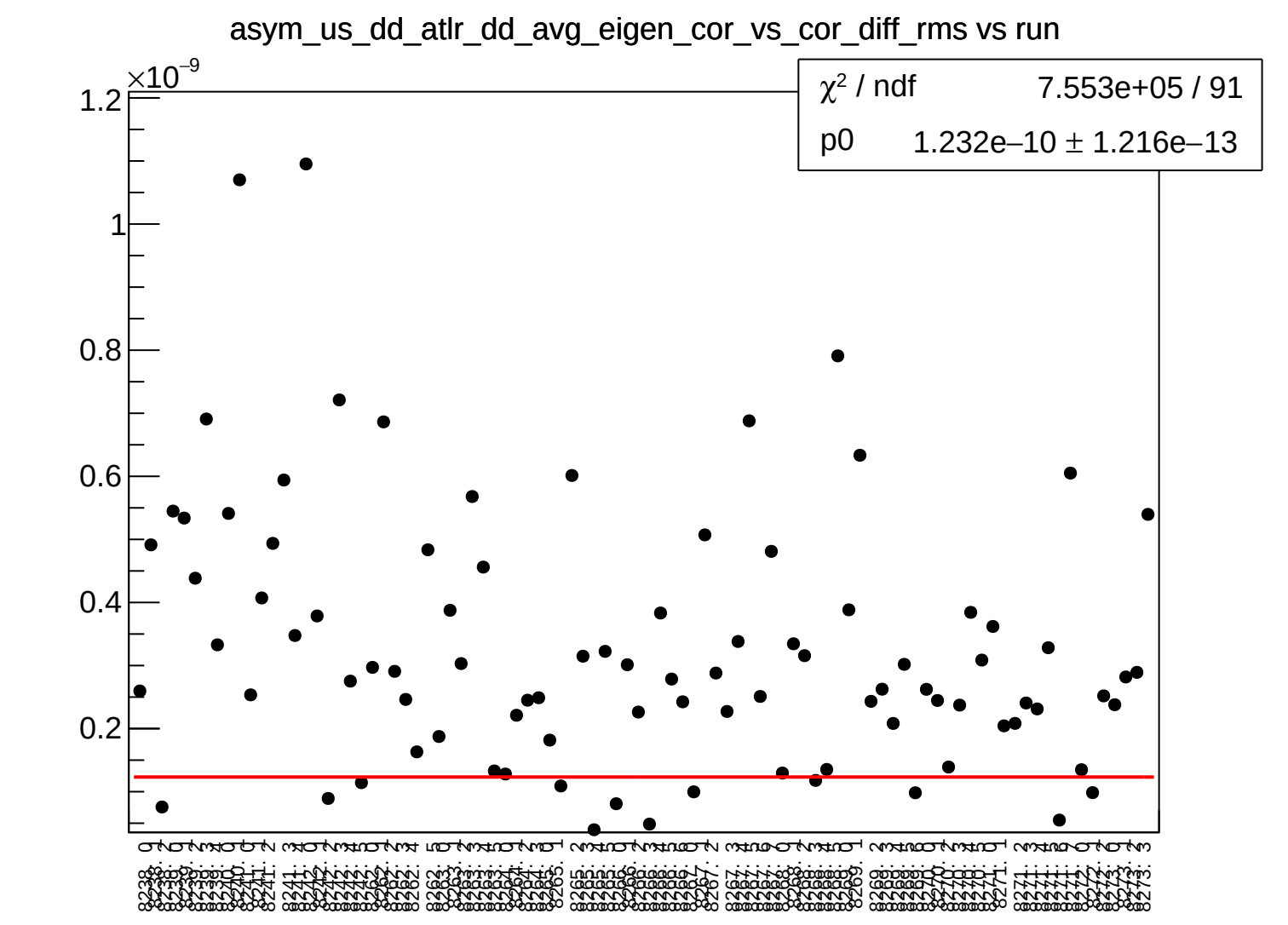

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.03 / 91
p0 0.02637 ± 0.06893
pull
Entries 92
Mean 61.08
Std Dev 25.46
pull1D
Entries 92
Mean −0.0556
Std Dev 1.015

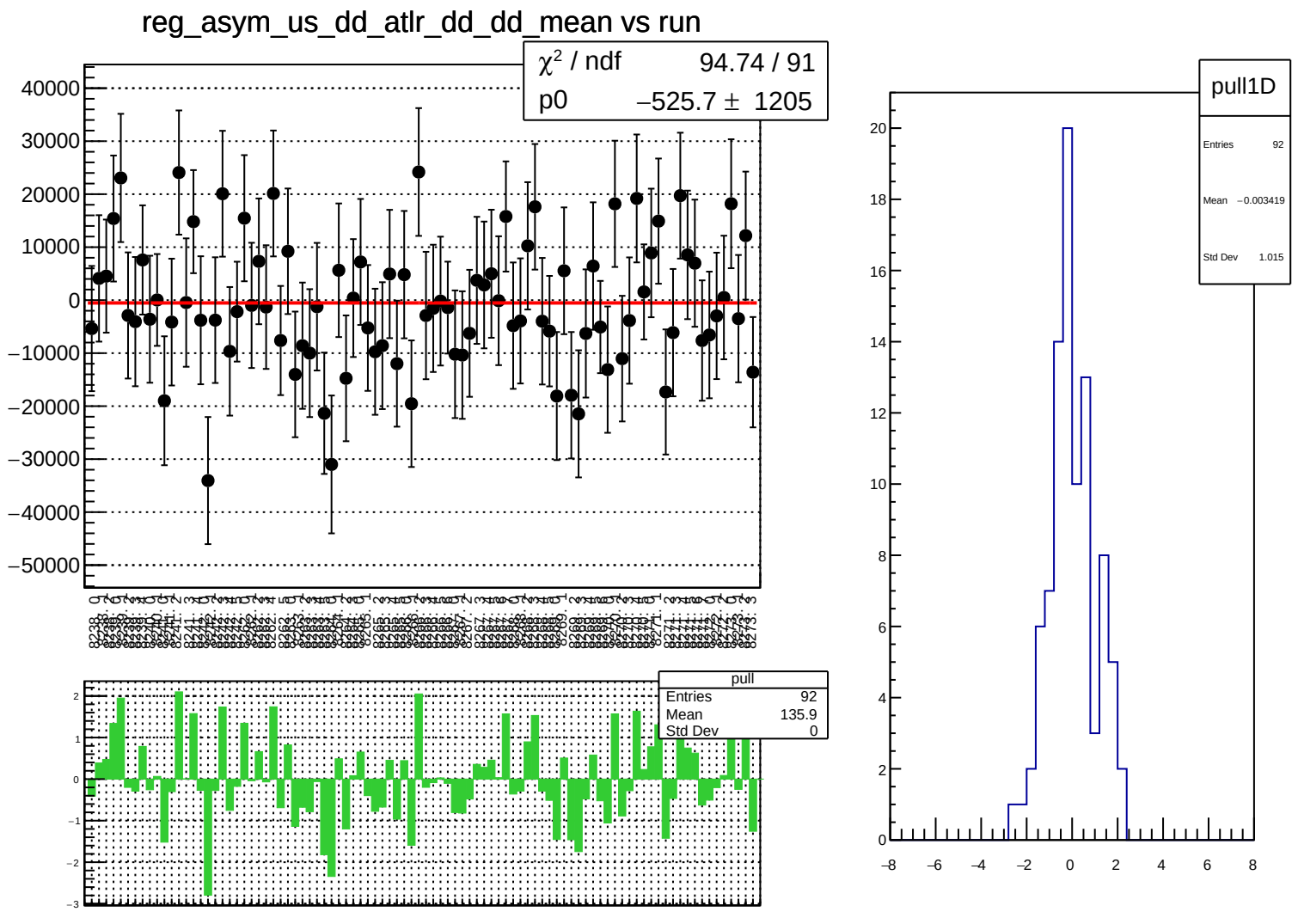

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.352e+05 / 91
p0 62.56 ± 0.04874
120
100
80
60
40

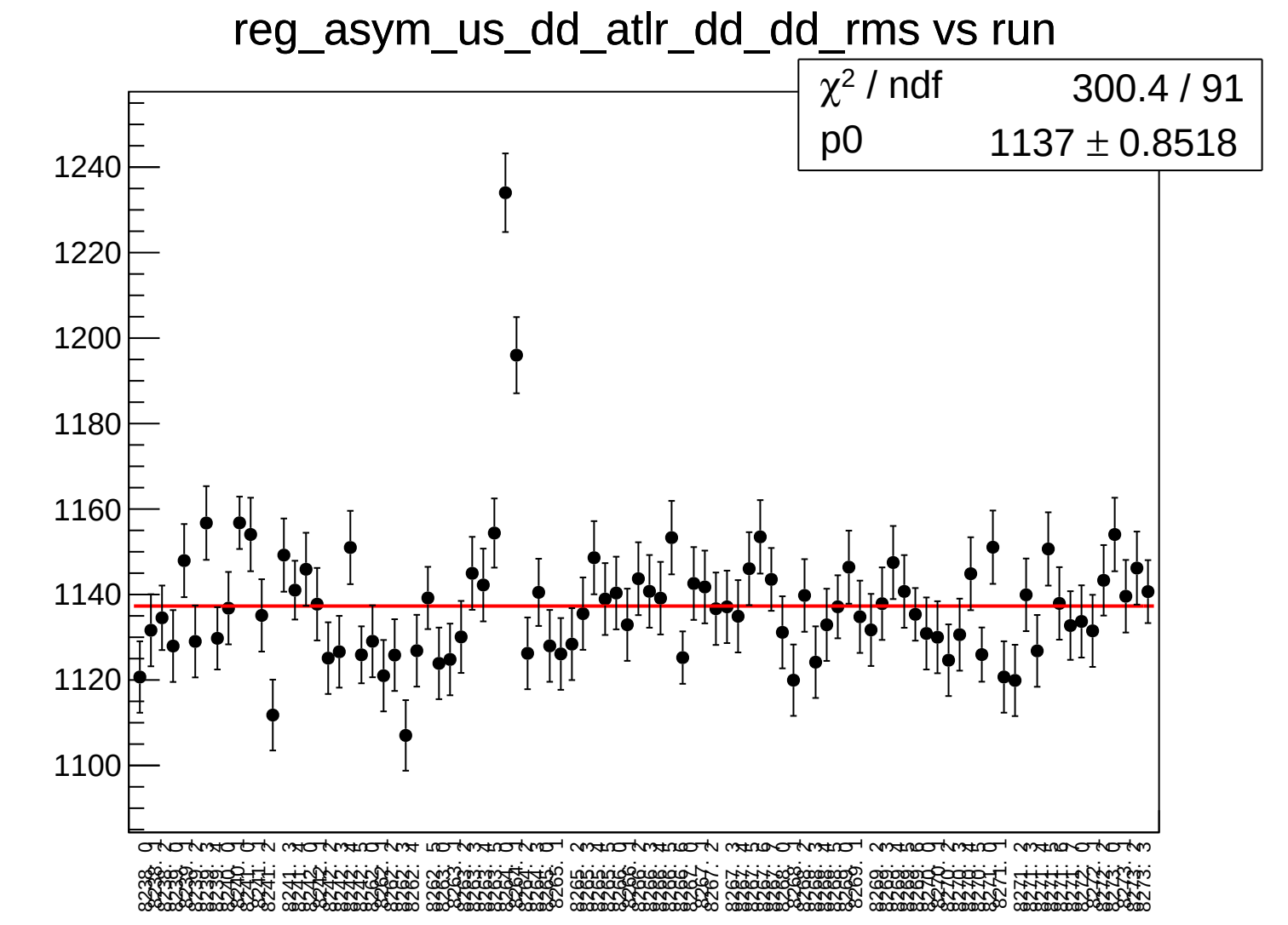

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.03 / 91
p0 0.02637 ± 0.06893
pull
Entries 92
Mean 61.08
Std Dev 25.46
pull1D
Entries 92
Mean −0.0556
Std Dev 1.015

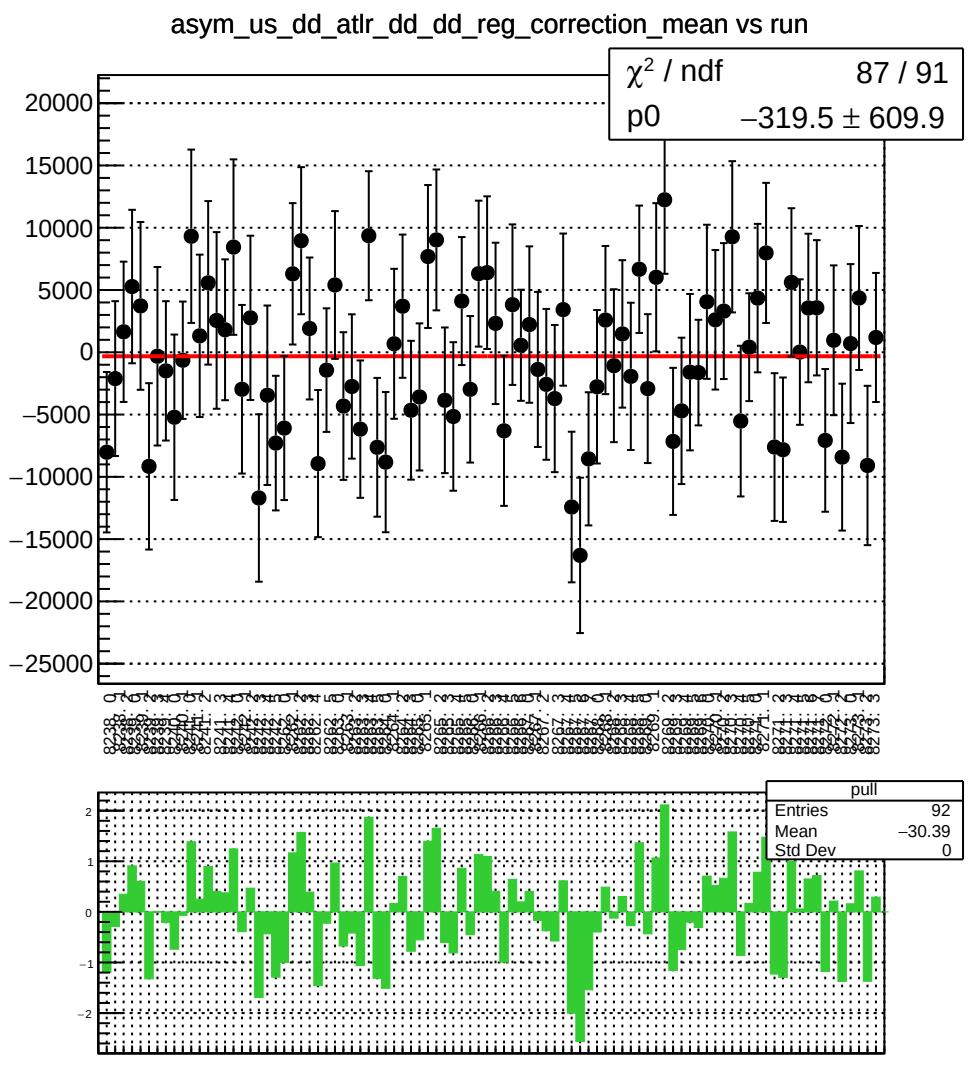

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.352e+05 / 91
p0 62.56 ± 0.04874
120
100
80
60
40

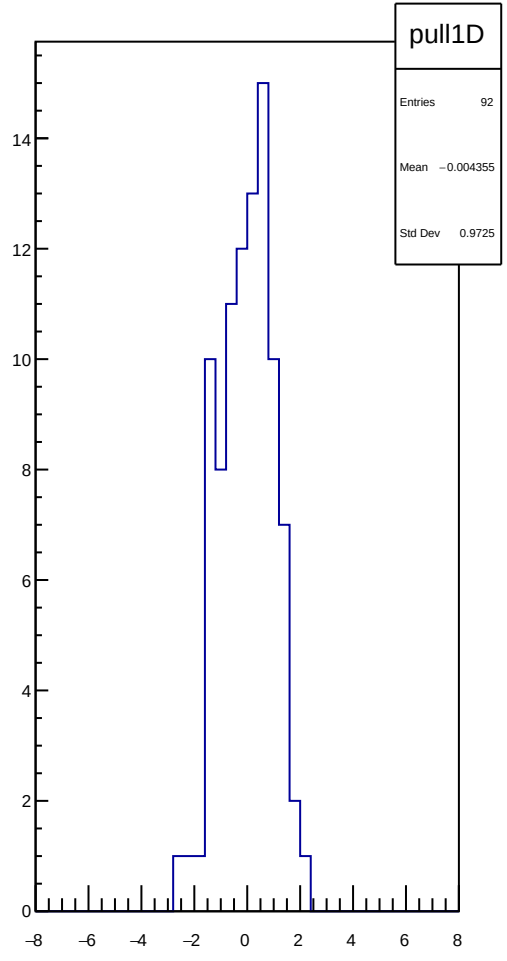

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.81 / 91
p0 −2.205e−13 ± 1.719e−13
pull
Entries 92
Mean −15.7
Std Dev 0
pull1D
Entries 92
Mean 0.05905
Std Dev 0.9972

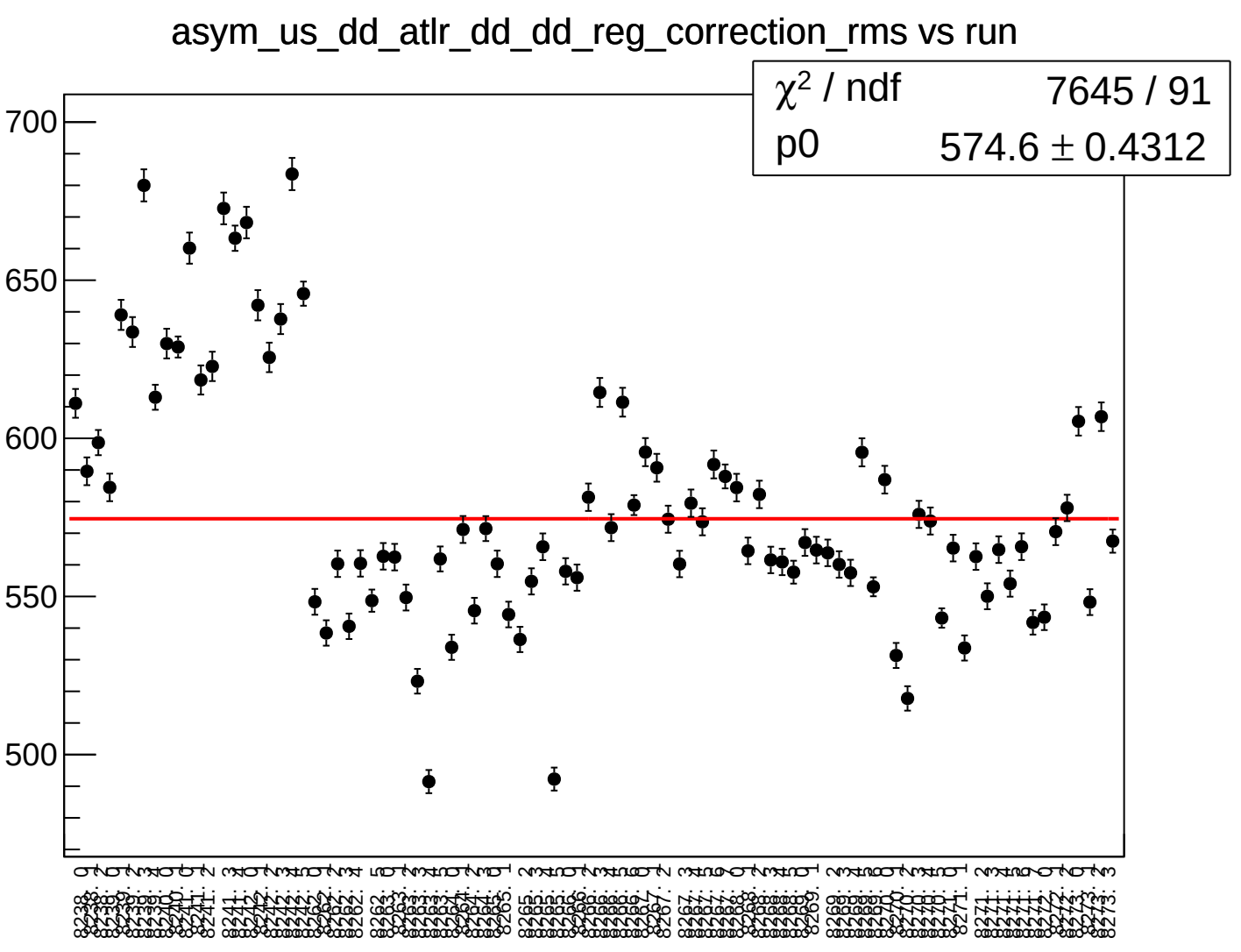

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 7.553e+05 / 91
p0 1.232e−10 ± 1.216e−13

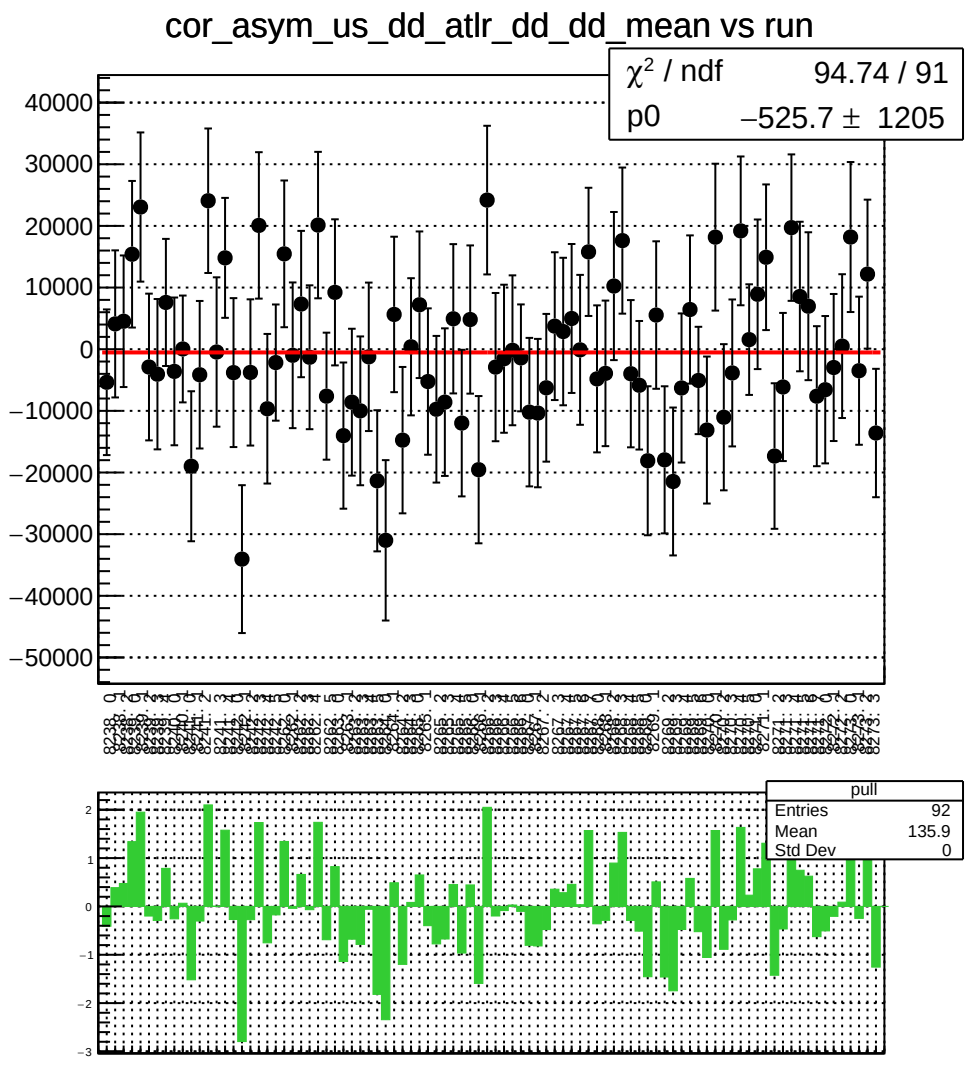

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 94.74 / 91
p0 −525.7 ± 1205
pull
Entries 92
Mean 135.9
Std Dev 0
pull1D
Entries 92
Mean −0.003419
Std Dev 1.015

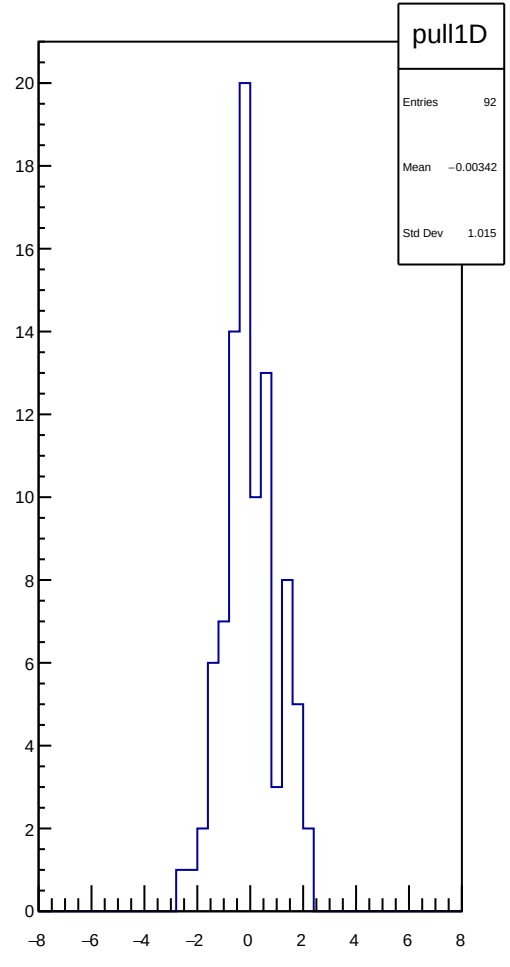

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 300.4 / 91
p0 1137 ± 0.8518
1240
1220
1200
1180
1160
1140
1120
1100

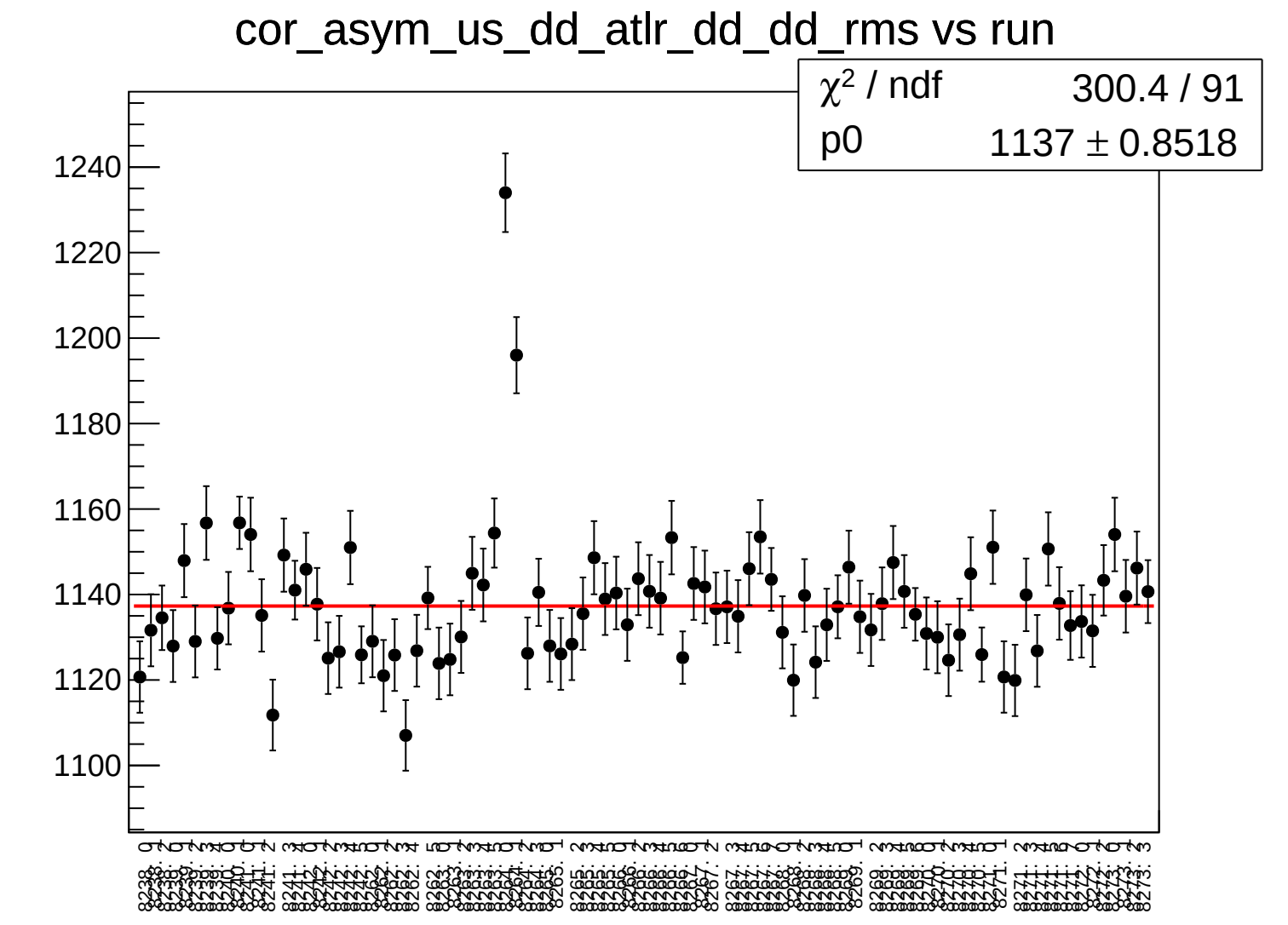

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 87 / 91
p0 −319.5 ± 609.9
pull
Entries 92
Mean −30.39
Std Dev 0

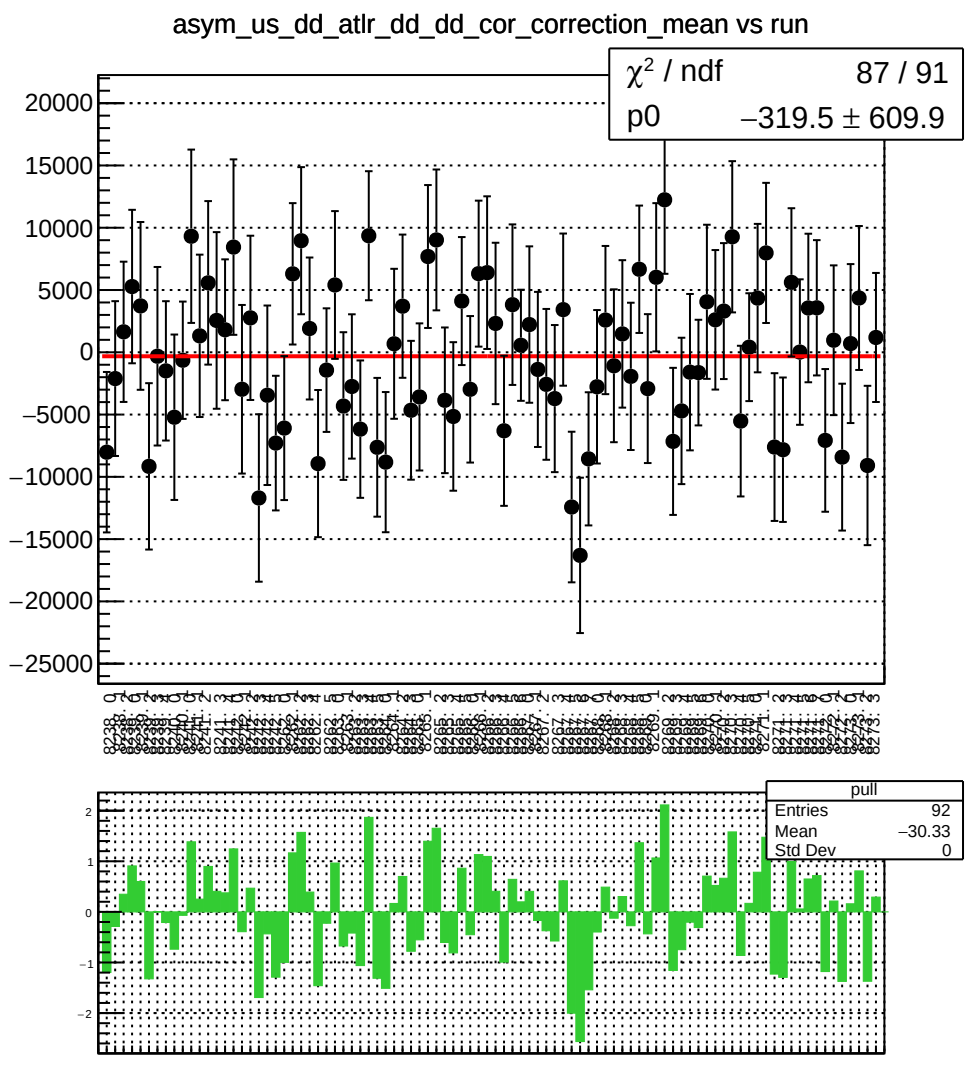

pull1D
Entries 92
Mean −0.004355
Std Dev 0.9725

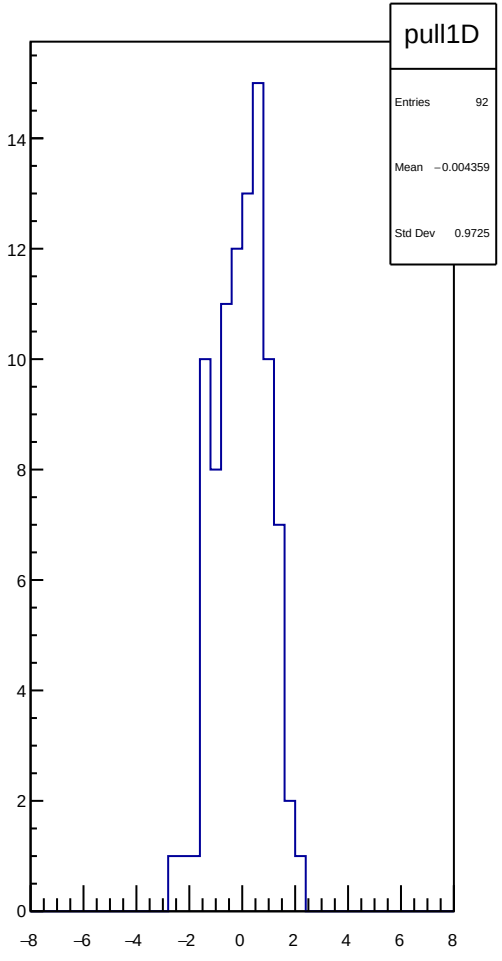

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 7645 / 91
p0 574.6 ± 0.4312
700
650
600
550
500

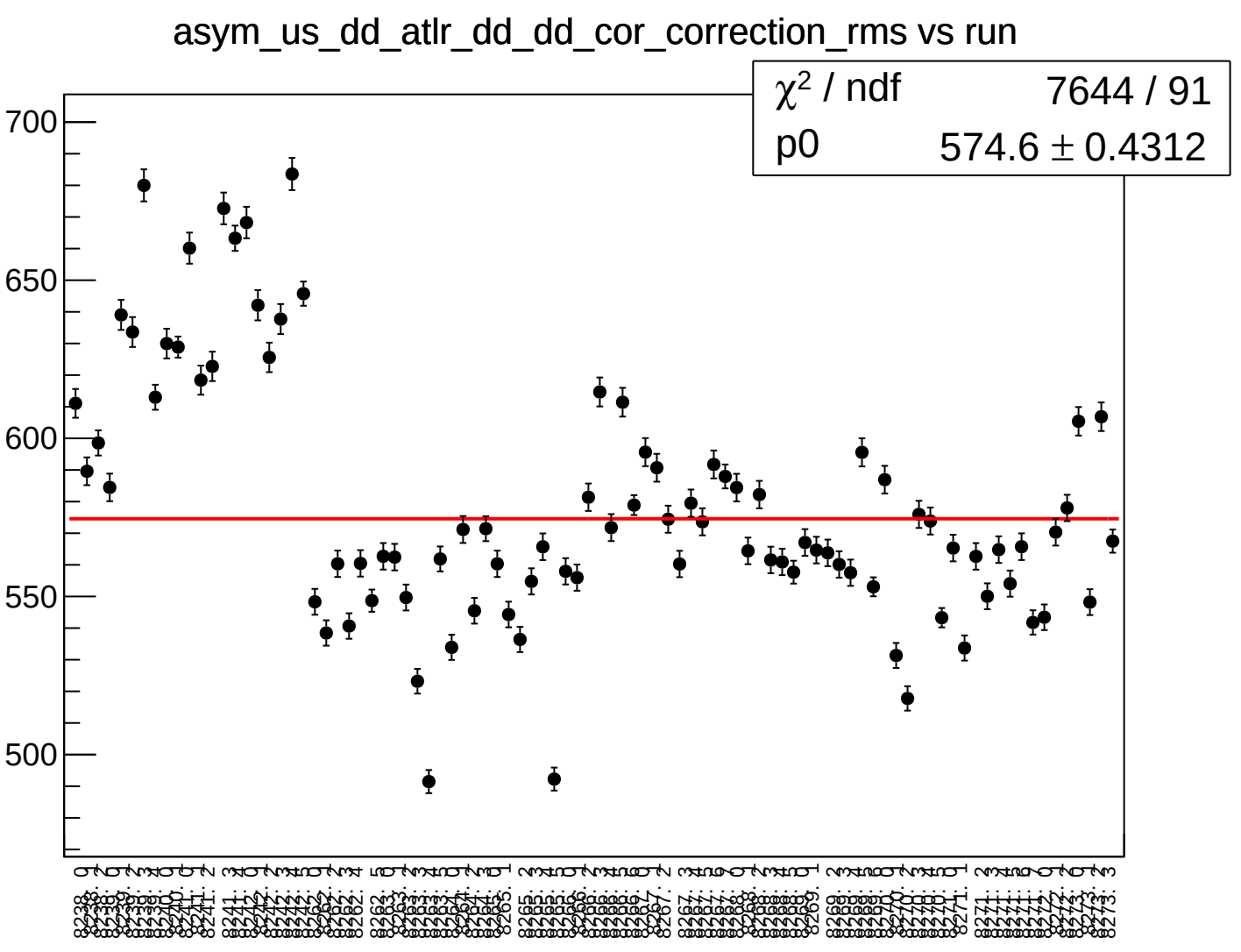

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 94.74 / 91
p0 −525.7 ± 1205
pull
Entries 92
Mean 135.9
Std Dev 0

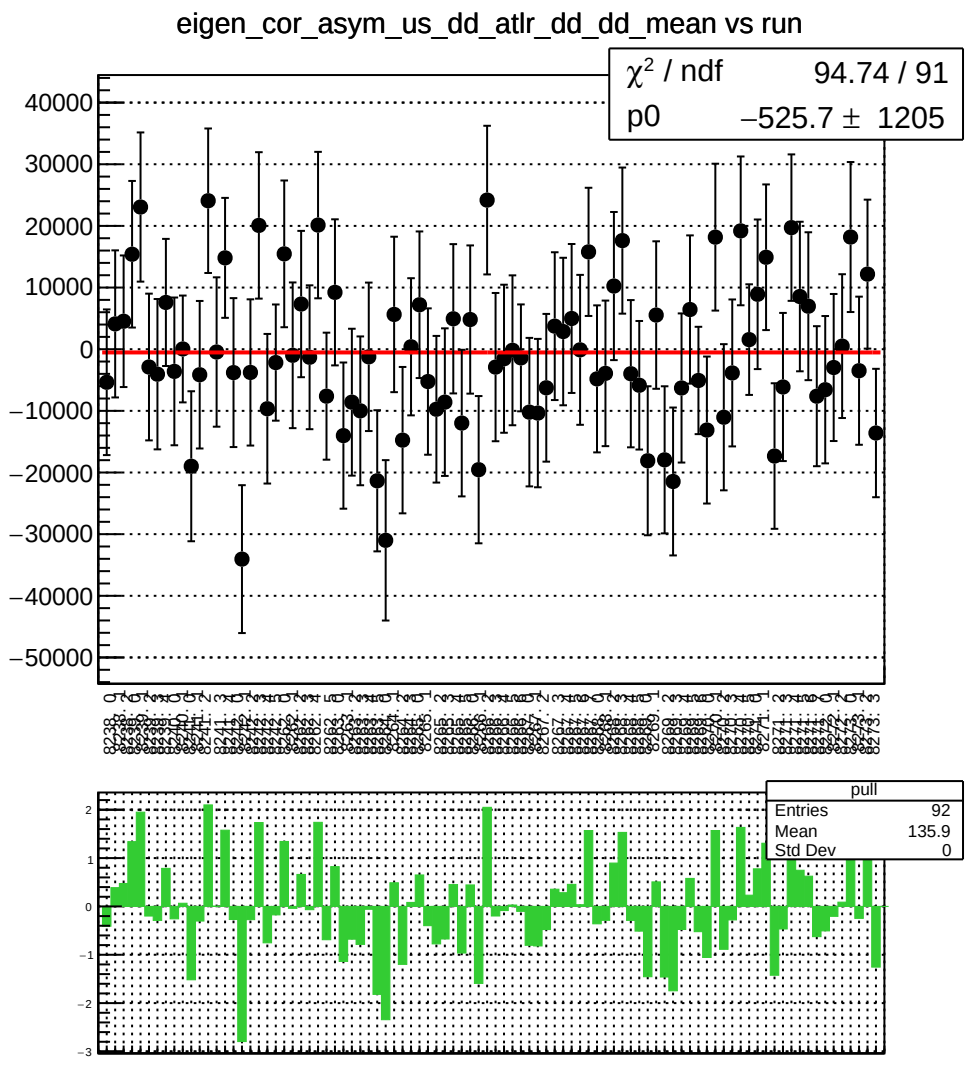

pull1D
Entries 92
Mean −0.00342
Std Dev 1.015

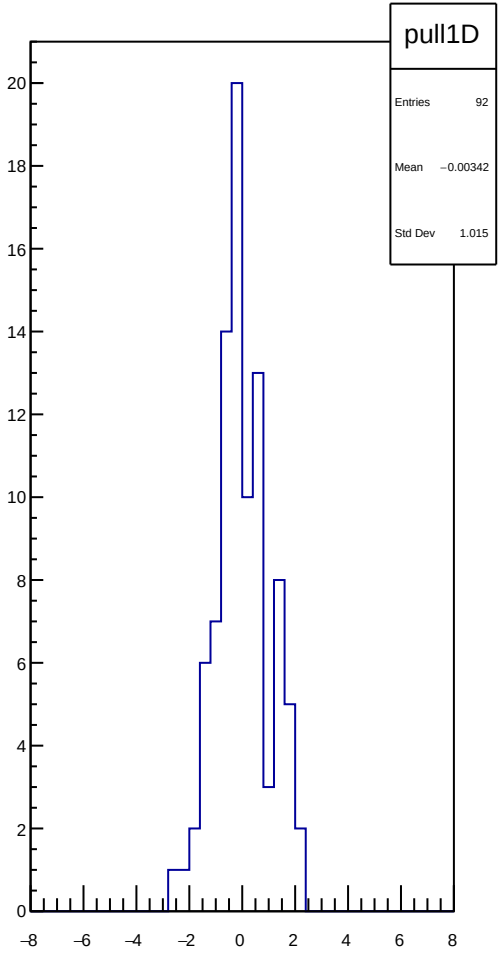

cor_asym_us_dd_atlr_dd_dd_rms vs run
$\chi^2$ / ndf 300.4 / 91
p0 1137 ± 0.8518
1240
1220
1200
1180
1160
1140
1120
1100

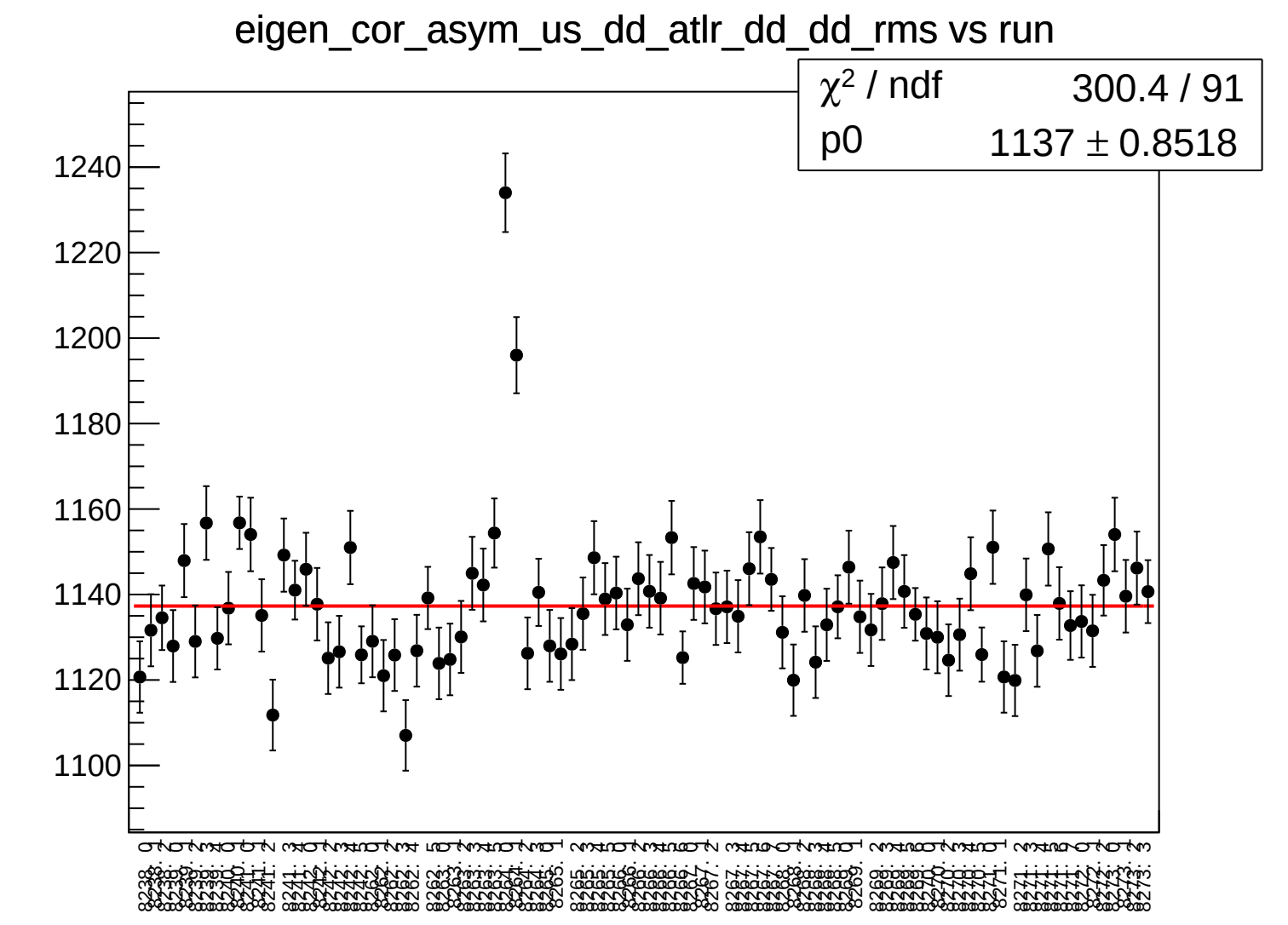

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 87 / 91
p0 −319.5 ± 609.9
pull
Entries 92
Mean −30.33
Std Dev 0

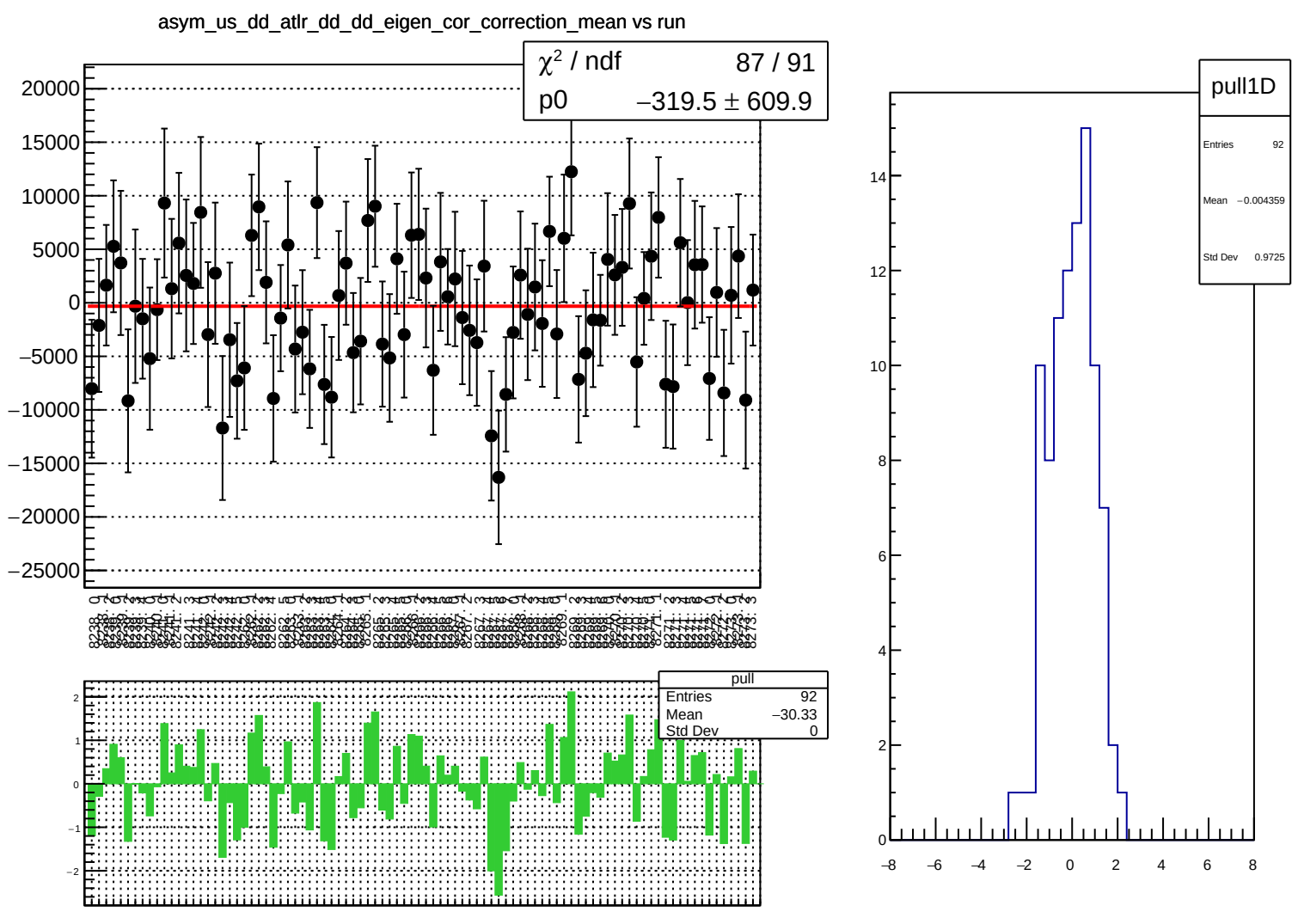

pull1D
Entries 92
Mean −0.004359
Std Dev 0.9725

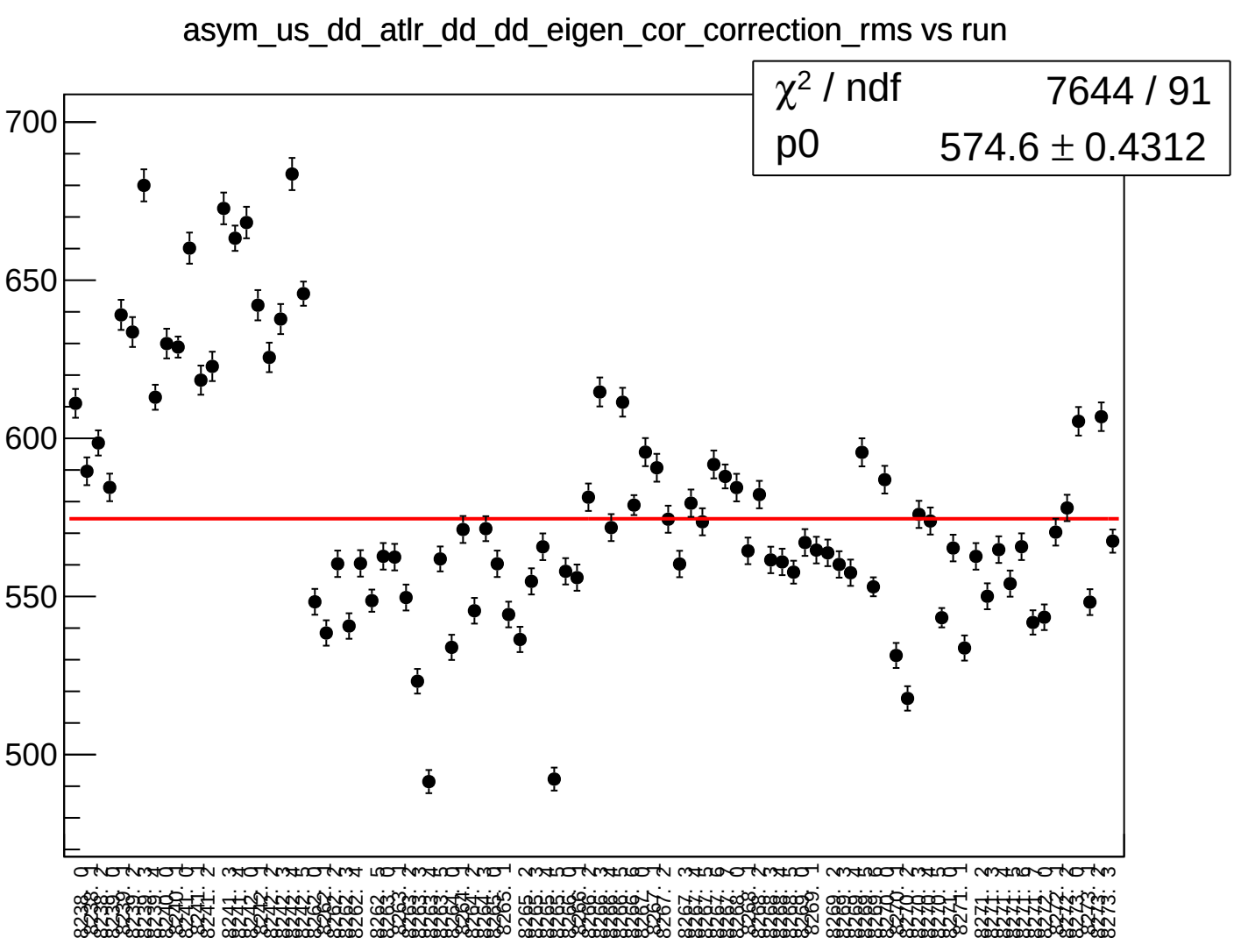

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 7644 / 91
p0 574.6 ± 0.4312
700
650
600
550
500

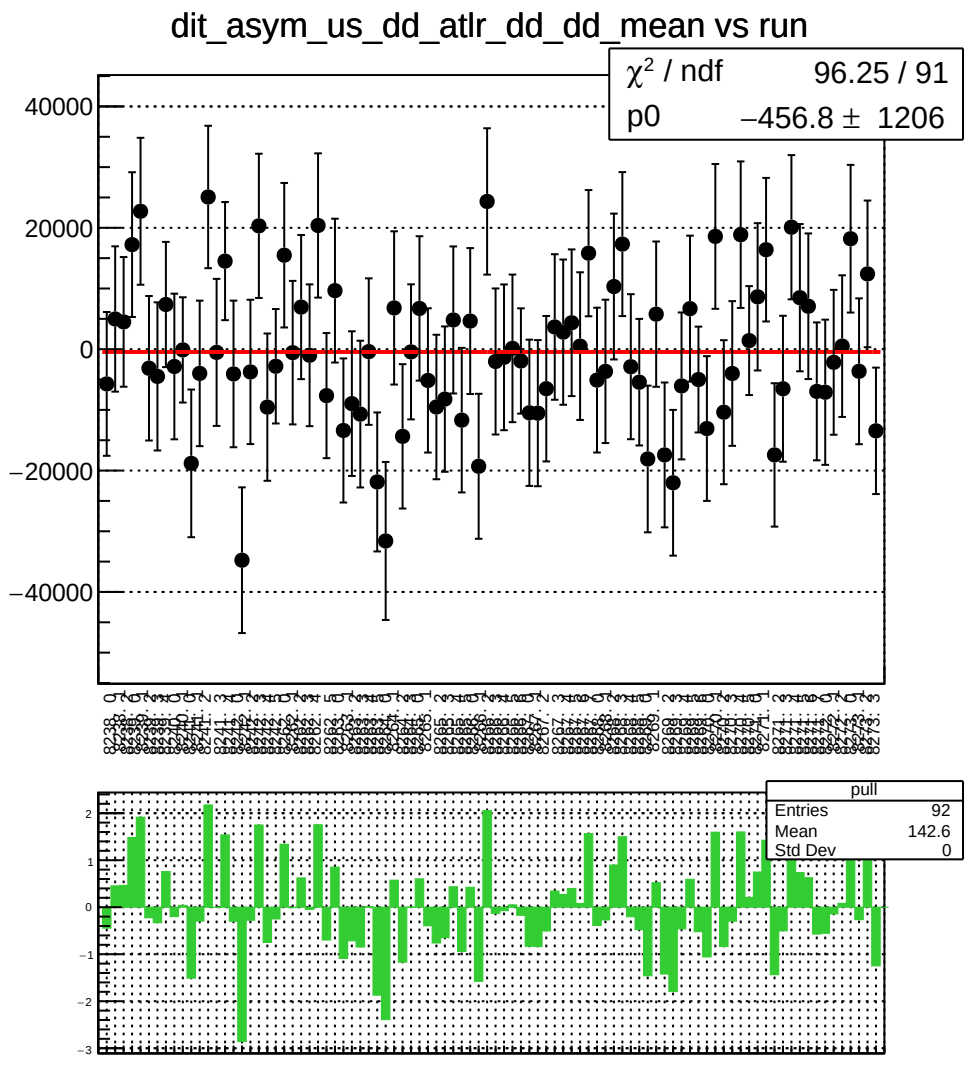

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 94.74 / 91
p0 −525.7 ± 1205
pull
Entries 92
Mean 135.9
Std Dev 0

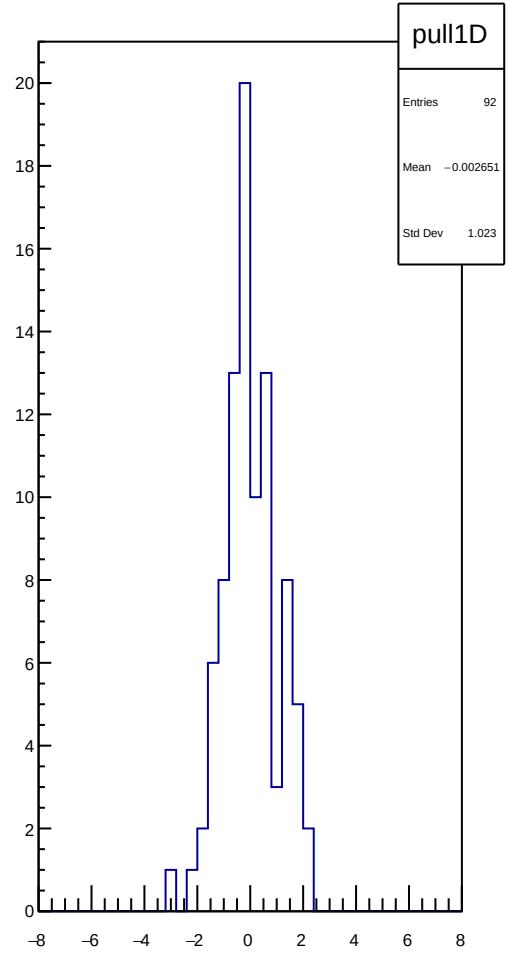

pull1D
Entries 92
Mean −0.00342
Std Dev 1.015

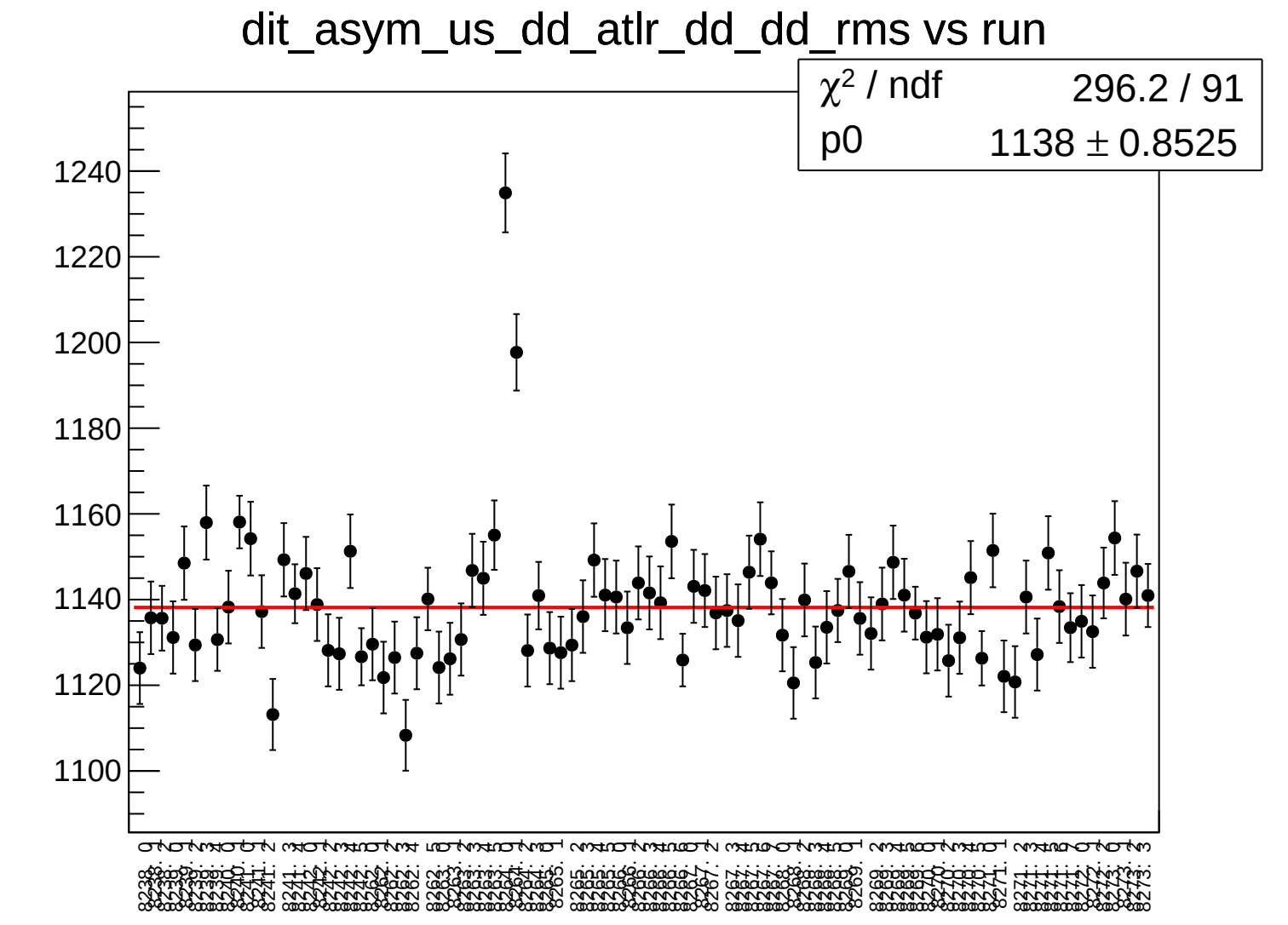

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 300.4 / 91
p0 1137 ± 0.8518
1240
1220
1200
1180
1160
1140
1120
1100

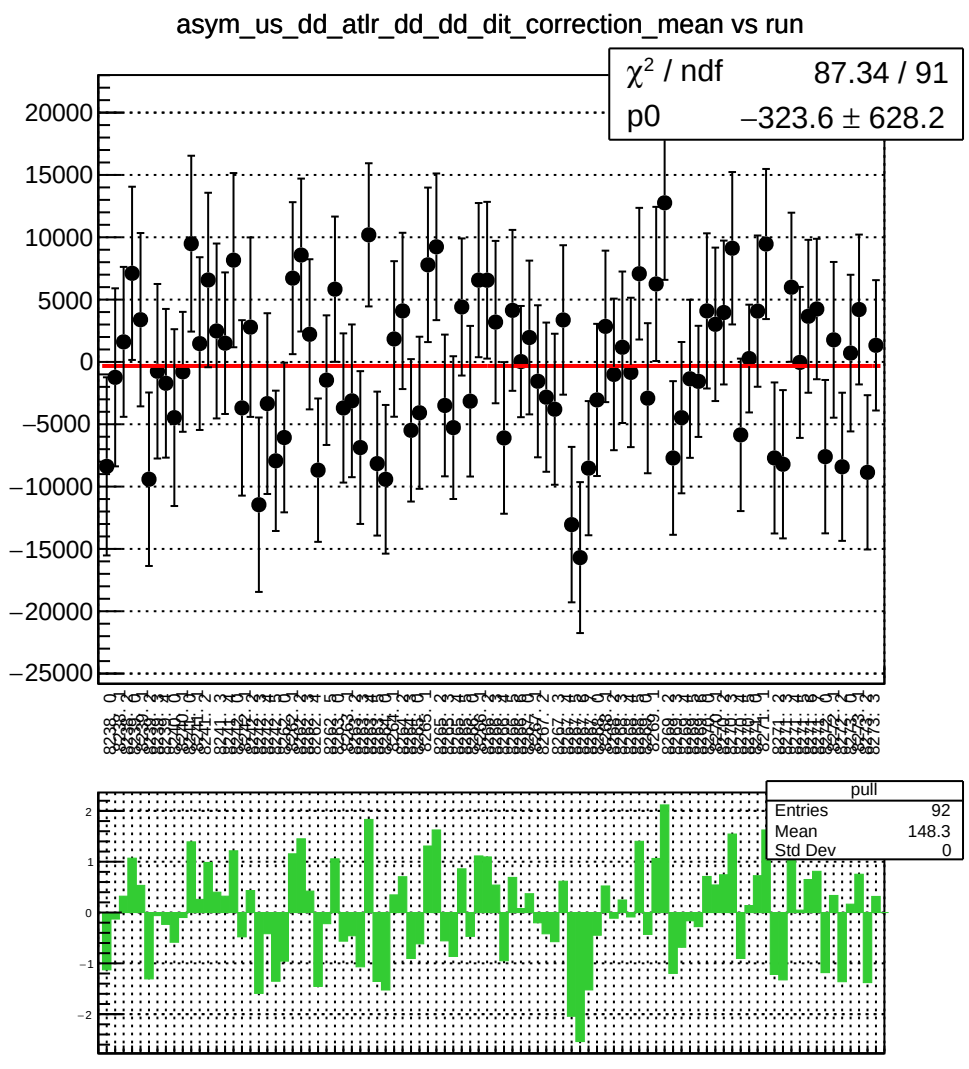

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 87 / 91
p0 −319.5 ± 609.9
pull
Entries 92
Mean −30.33
Std Dev 0
pull1D
Entries 92
Mean −0.004359
Std Dev 0.9725

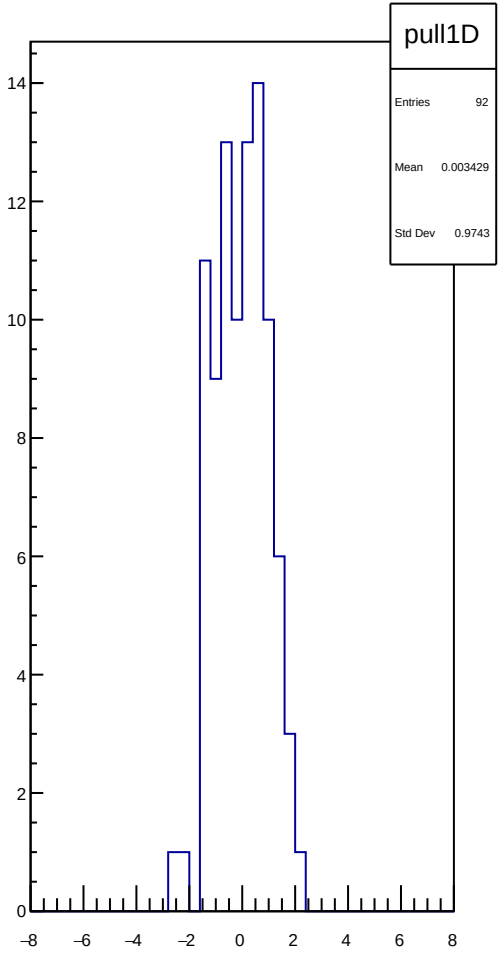

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 7644 / 91
p0 574.6 ± 0.4312
700
650
600
550
500

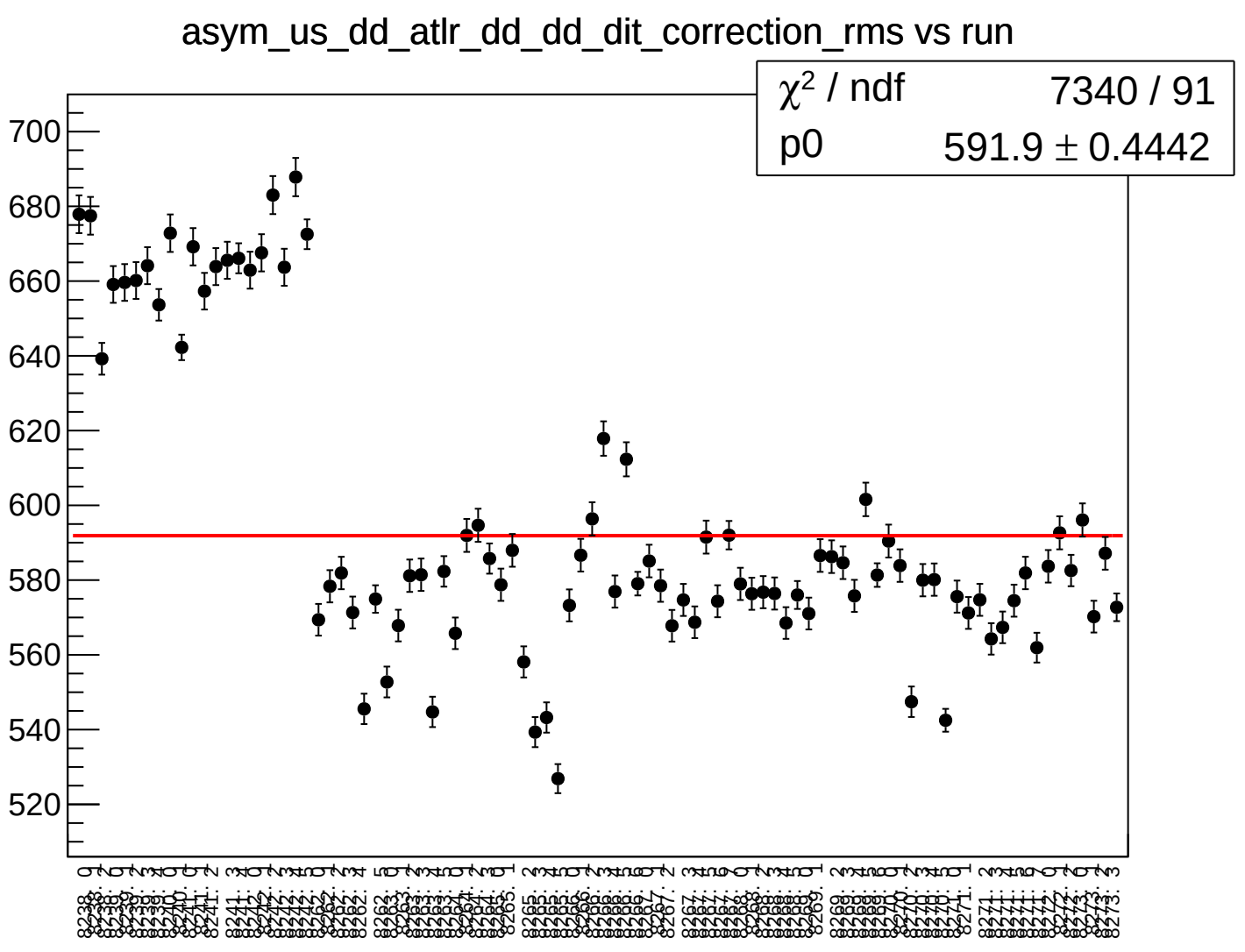

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 96.25 / 91
p0 −456.8 ± 1206
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 142.6
Std Dev 0
2
1
0
−1
−2
−3

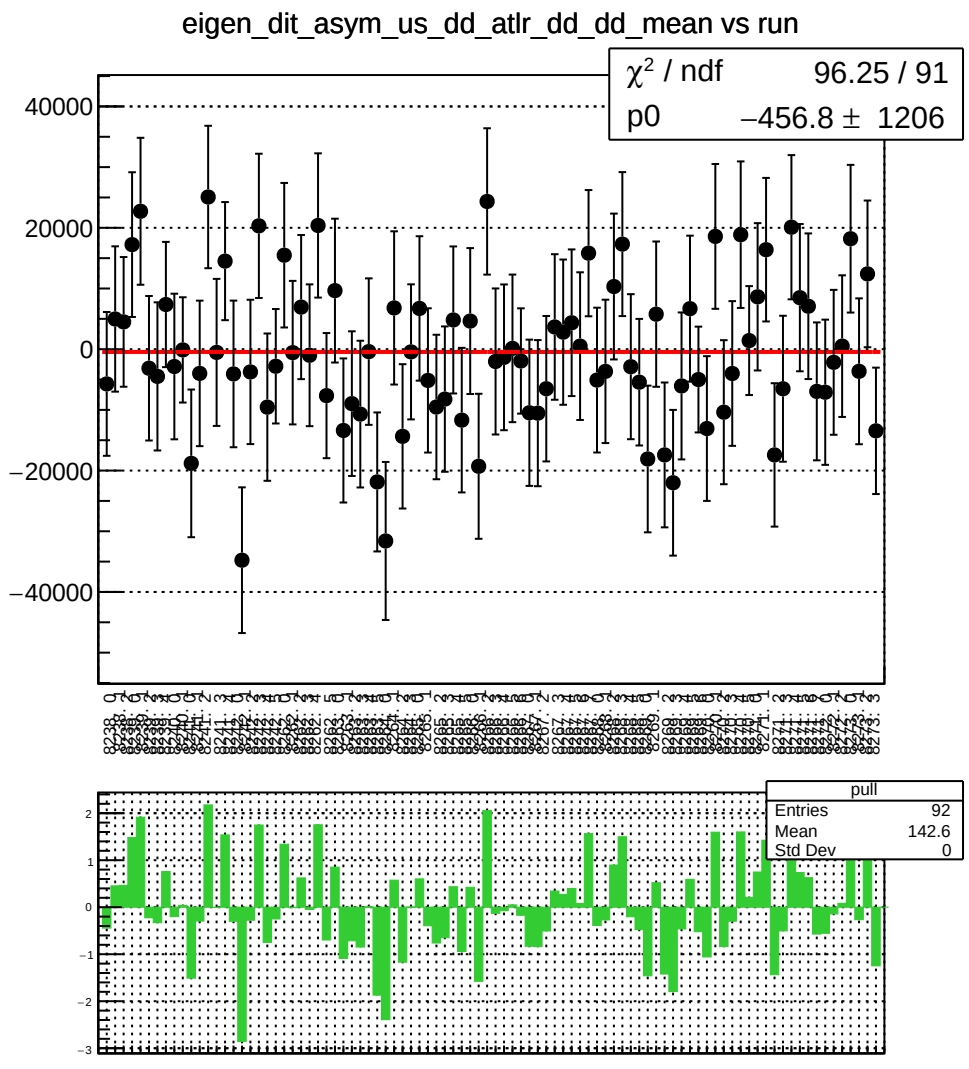

pull1D
Entries 92
Mean −0.002651
Std Dev 1.023
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

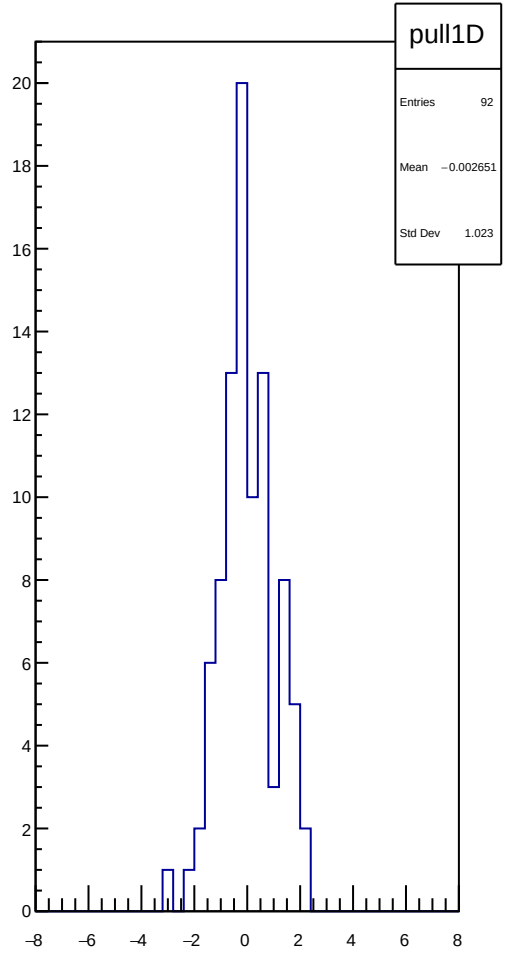

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 296.2 / 91
p0 1138 ± 0.8525
1240
1220
1200
1180
1160
1140
1120
1100

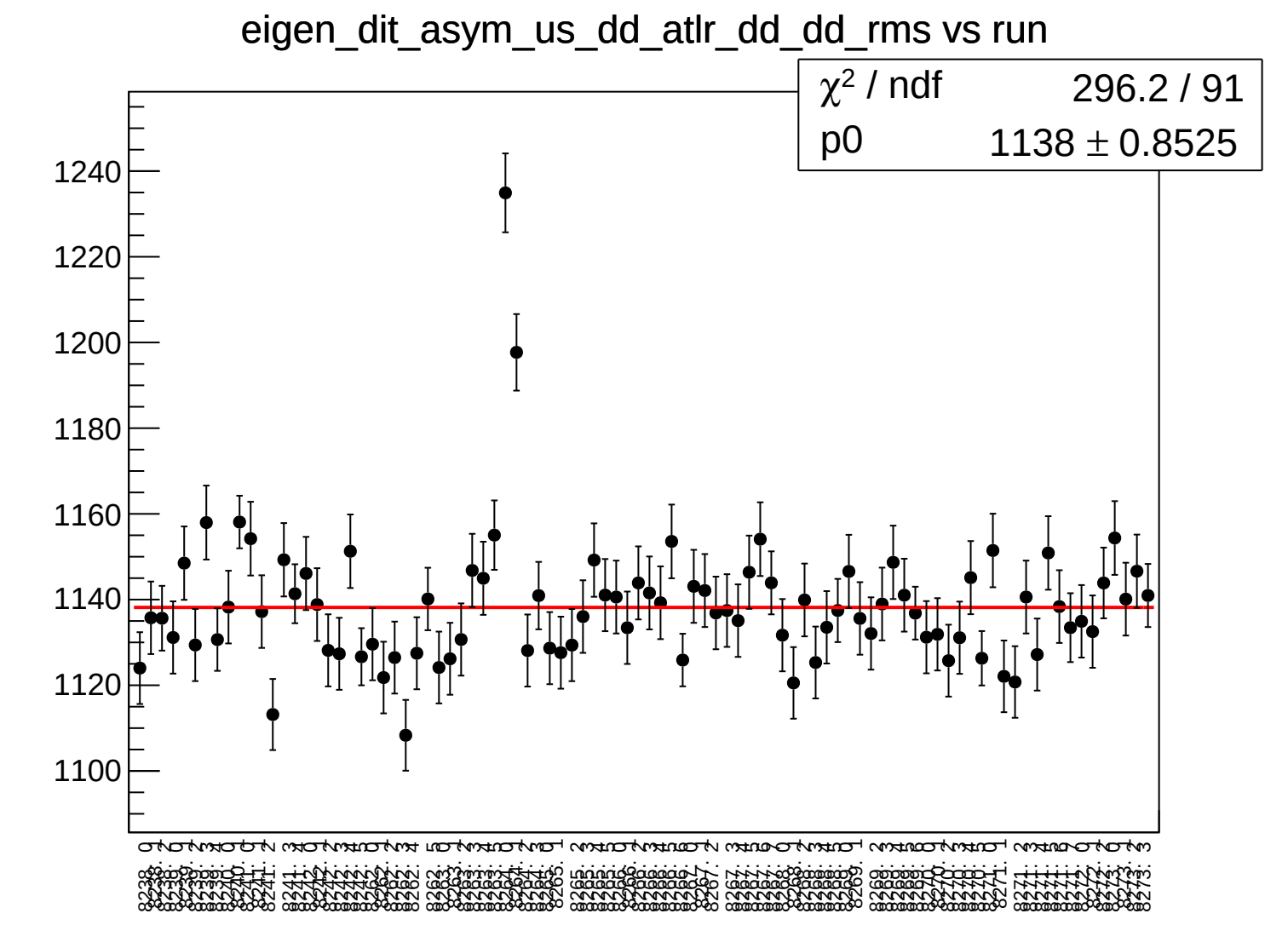

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 87.34 / 91
p0 −323.6 ± 628.2
pull
Entries 92
Mean 148.3
Std Dev 0

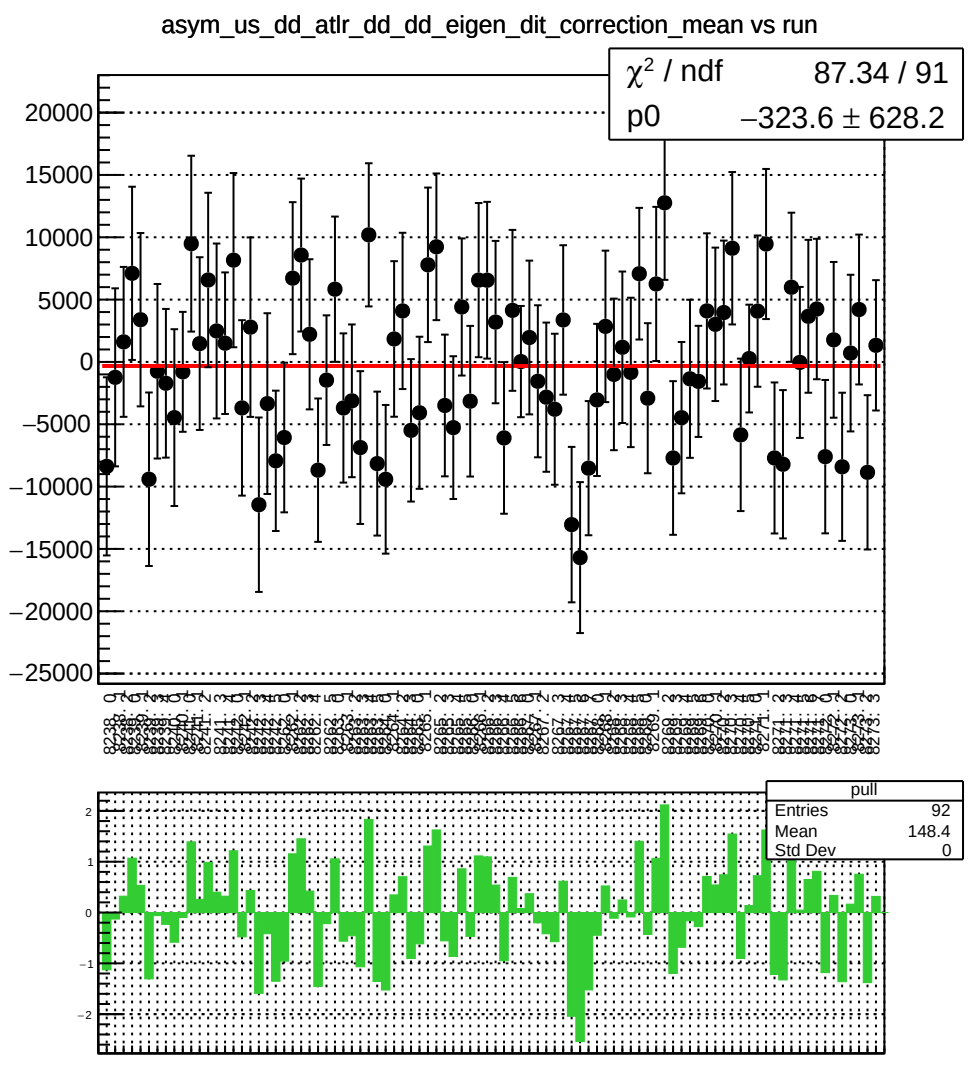

pull1D
Entries 92
Mean 0.003429
Std Dev 0.9743

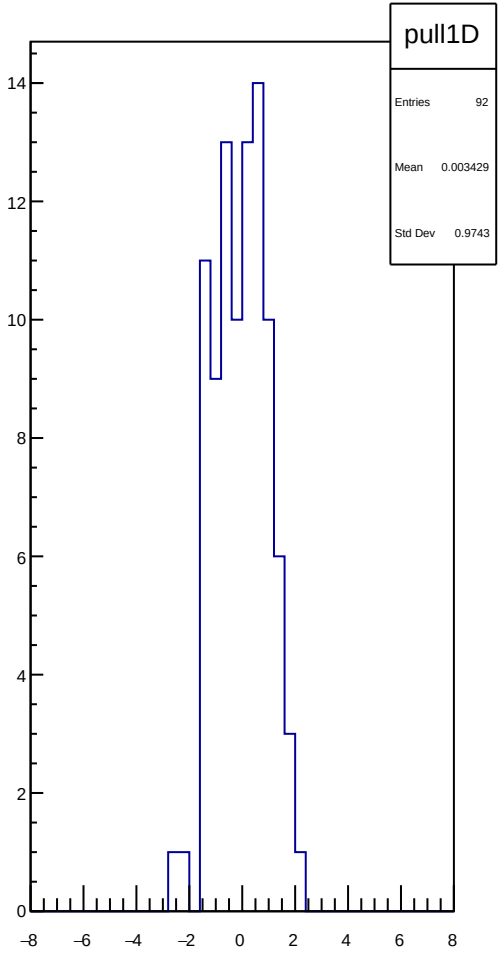

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 7340 / 91
p0 591.9 ± 0.4442
700
680
660
640
620
600
580
560
540
520

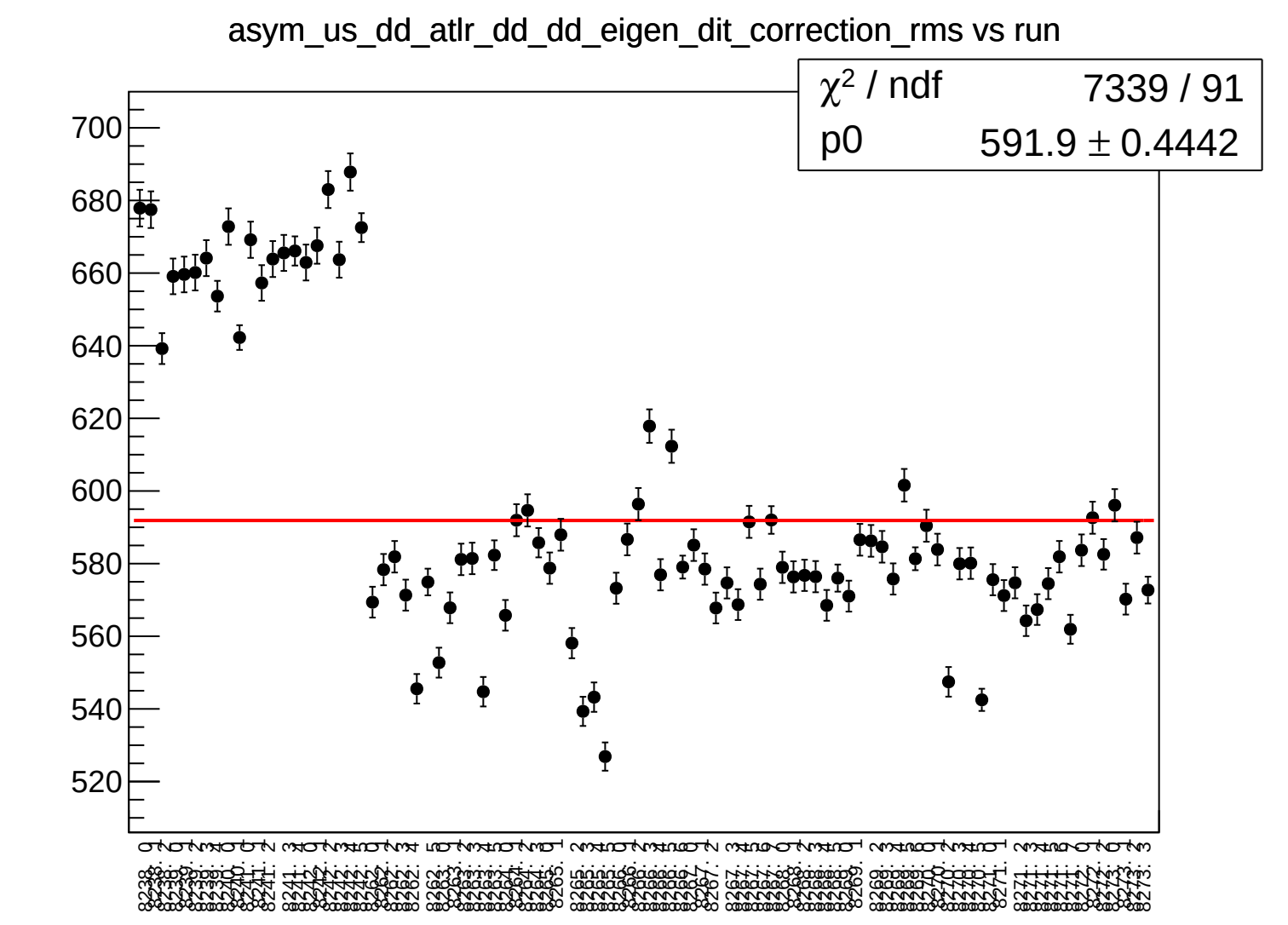

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 96.25 / 91
p0 −456.8 ± 1206
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 142.6
Std Dev 0
2
1
0
−1
−2
−3

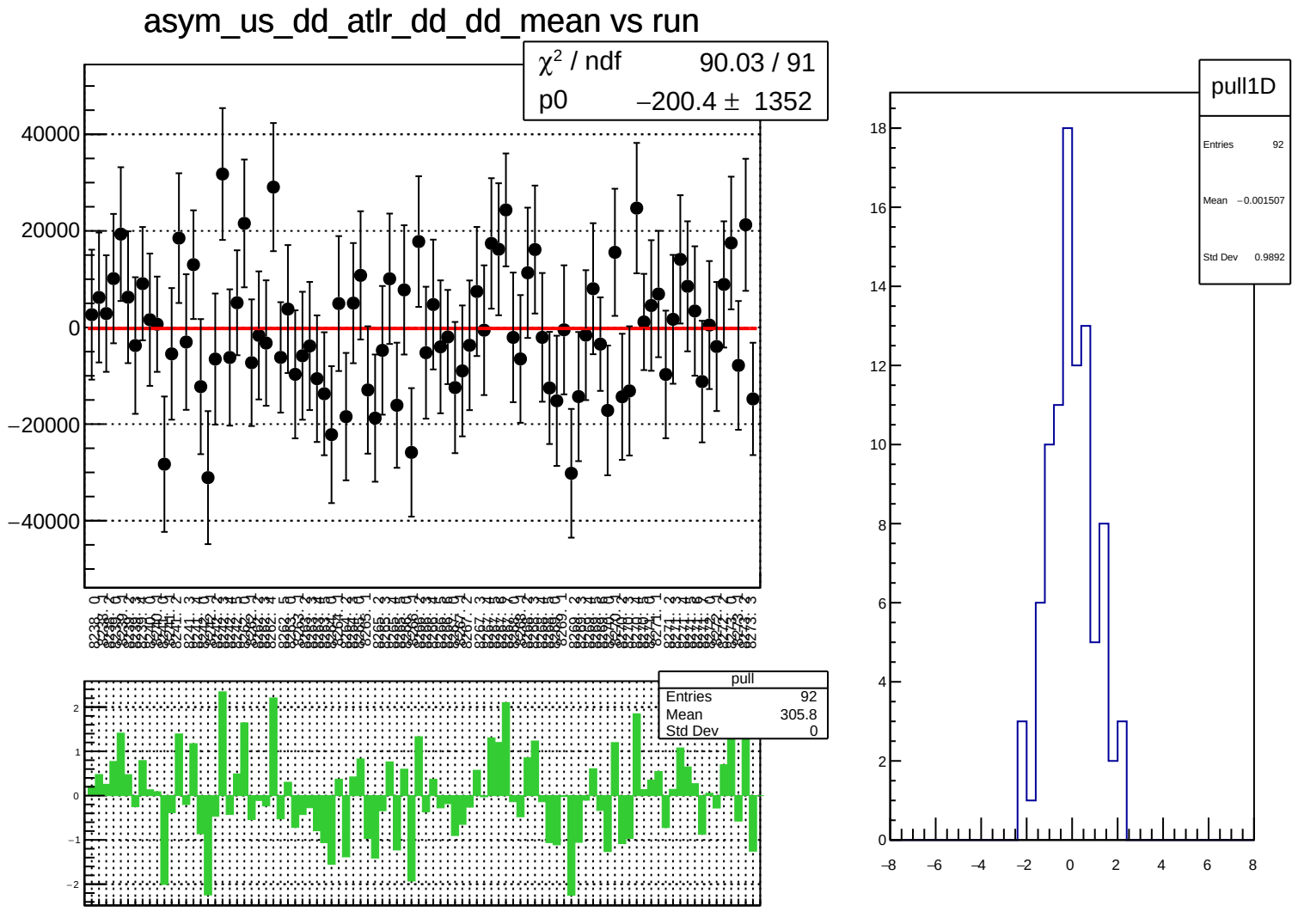

pull1D
Entries 92
Mean −0.002651
Std Dev 1.023
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

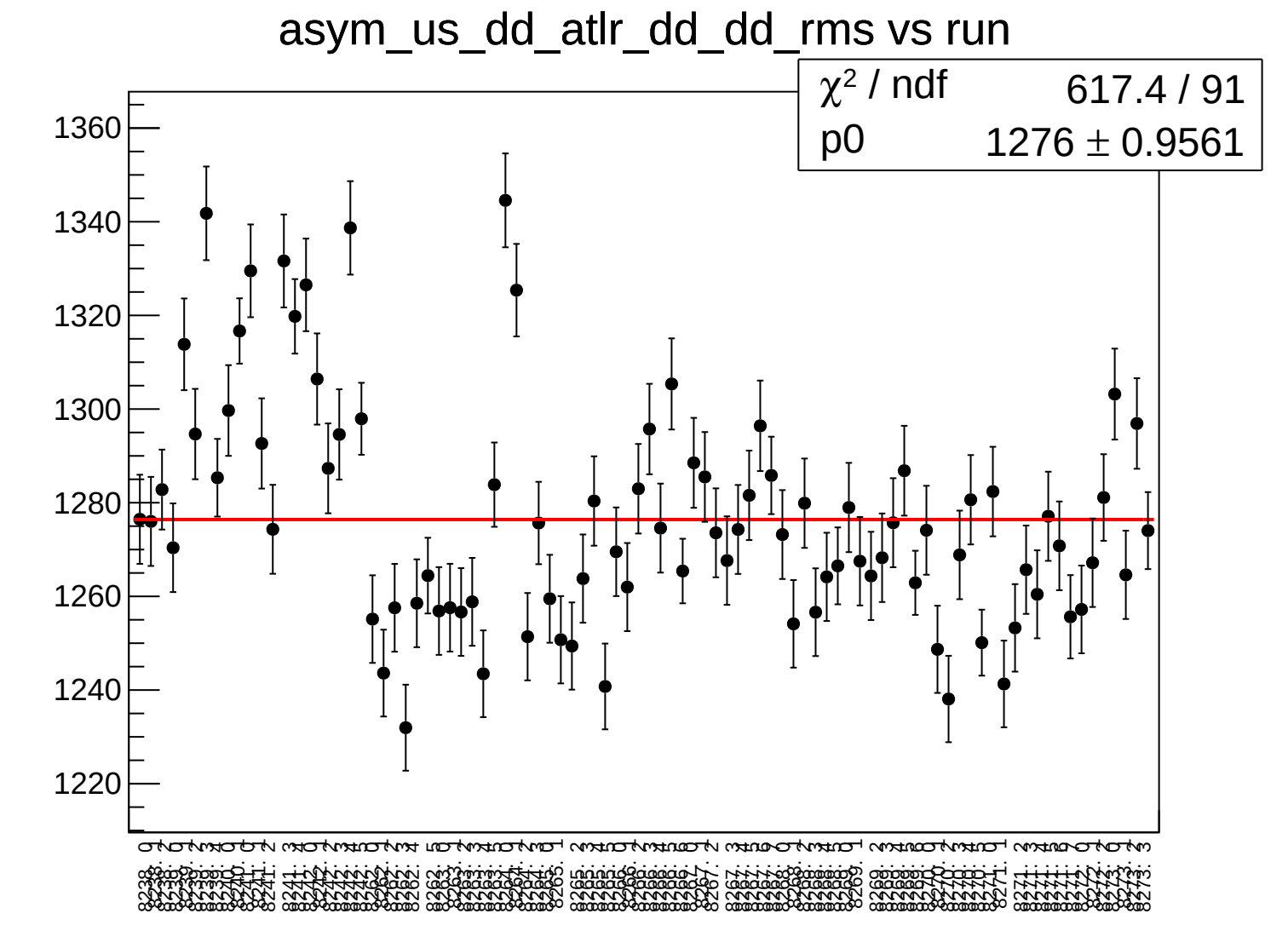

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 296.2 / 91
p0 1138 ± 0.8525
1240
1220
1200
1180
1160
1140
1120
1100

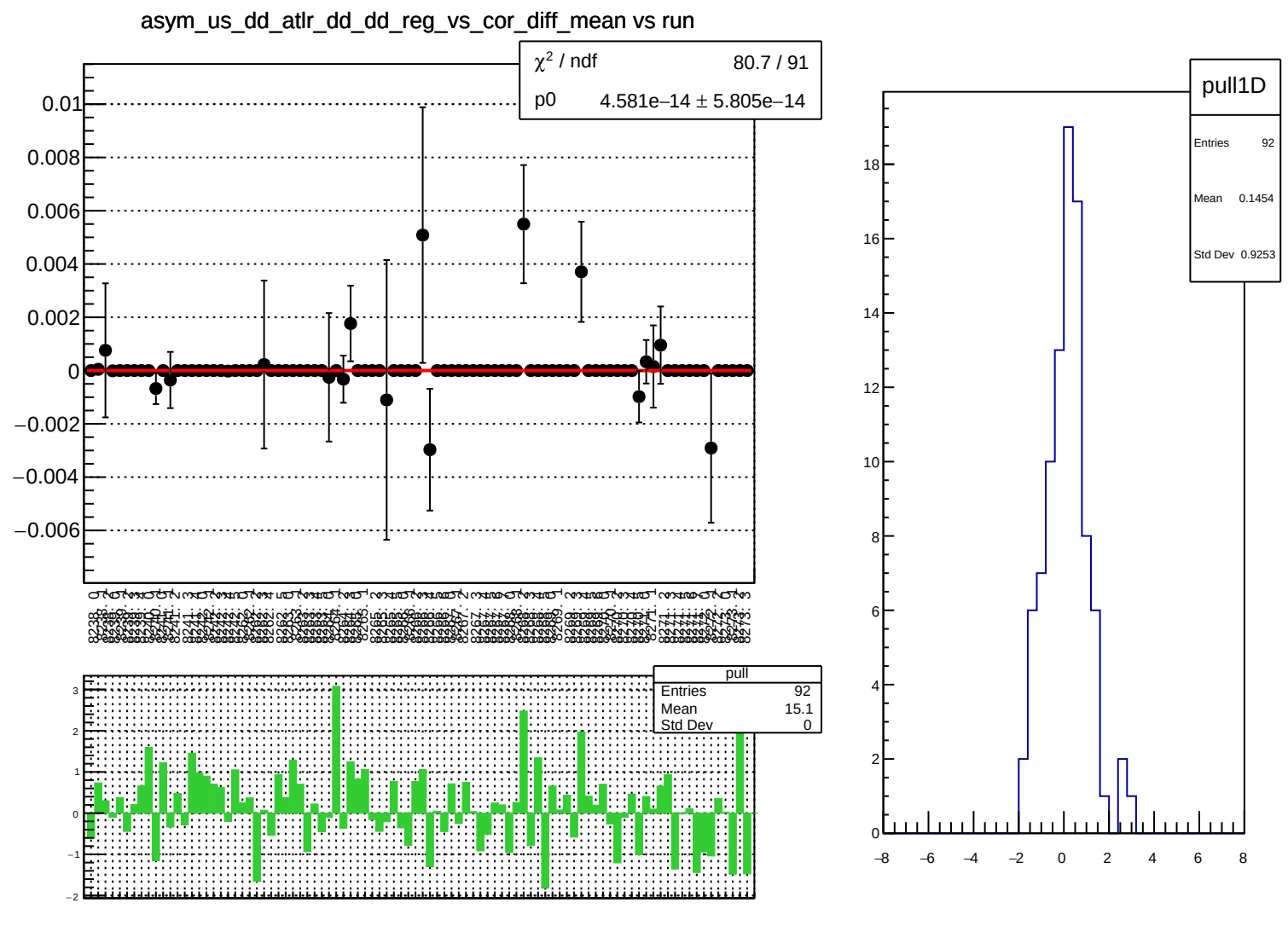

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.34 / 91
p0 −323.6 ± 628.2
pull
Entries 92
Mean 148.4
Std Dev 0

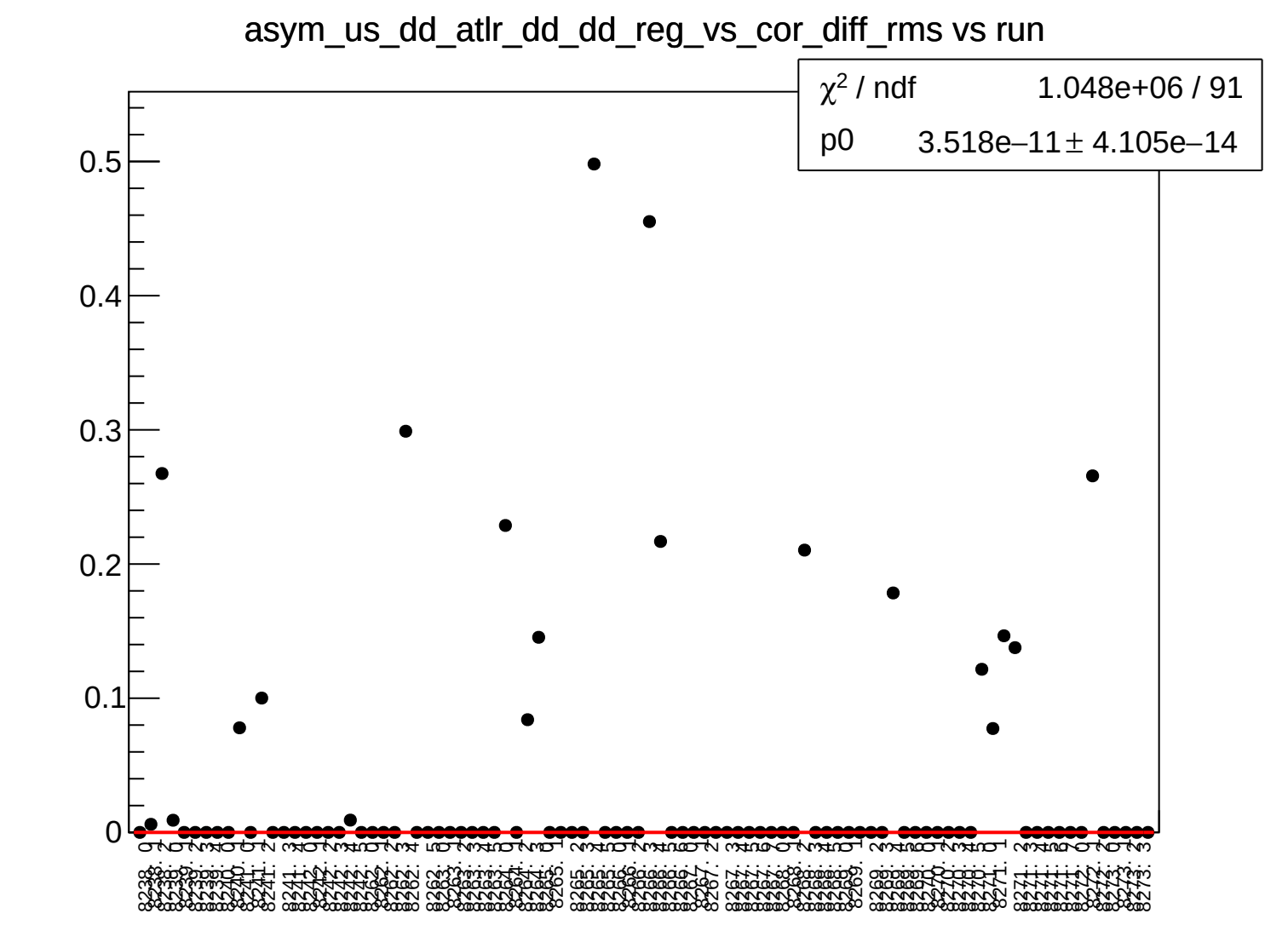

pull1D
Entries 92
Mean 0.003429
Std Dev 0.9743

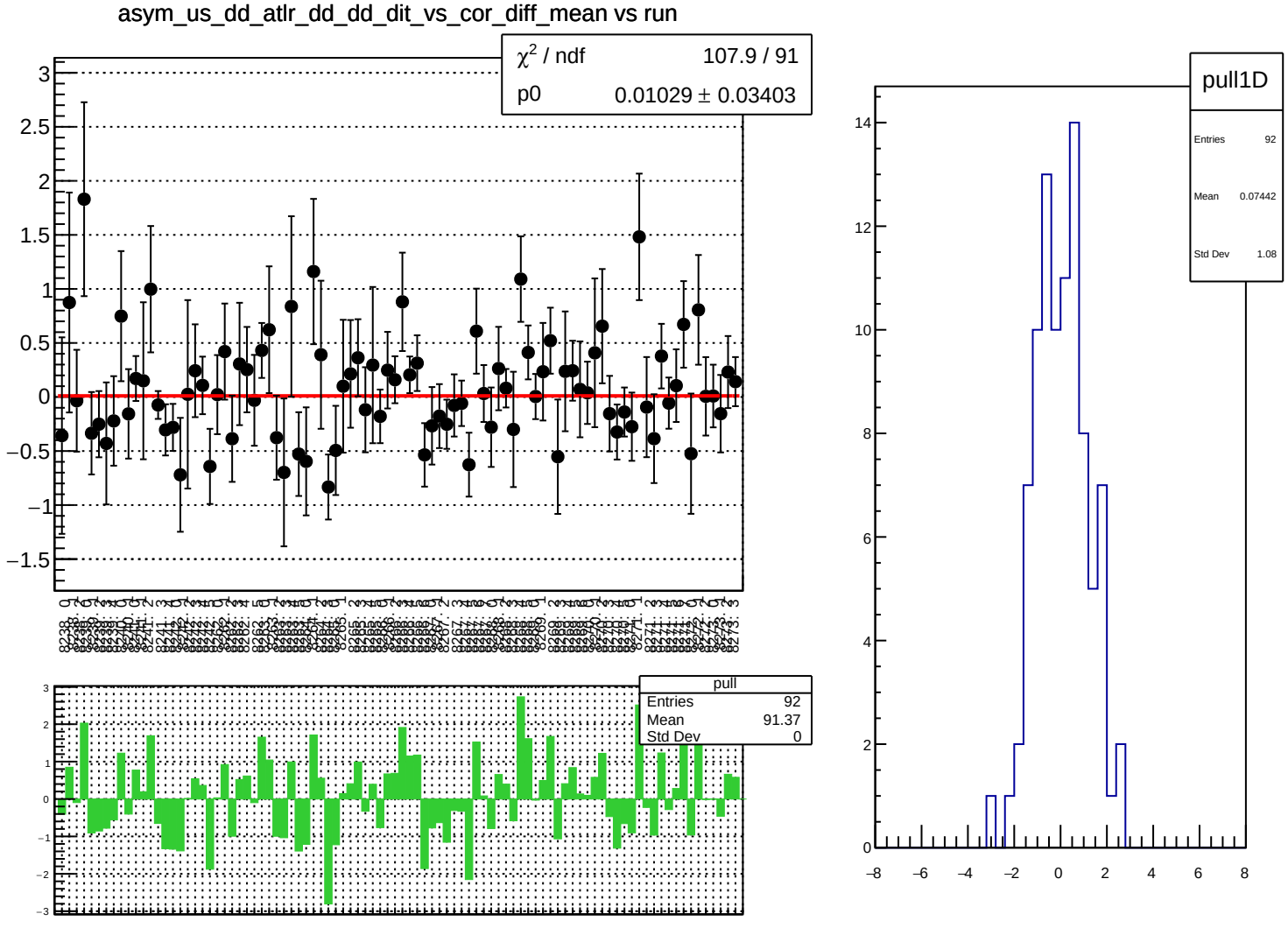

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 7339 / 91
p0 591.9 ± 0.4442
700
680
660
640
620
600
580
560
540
520

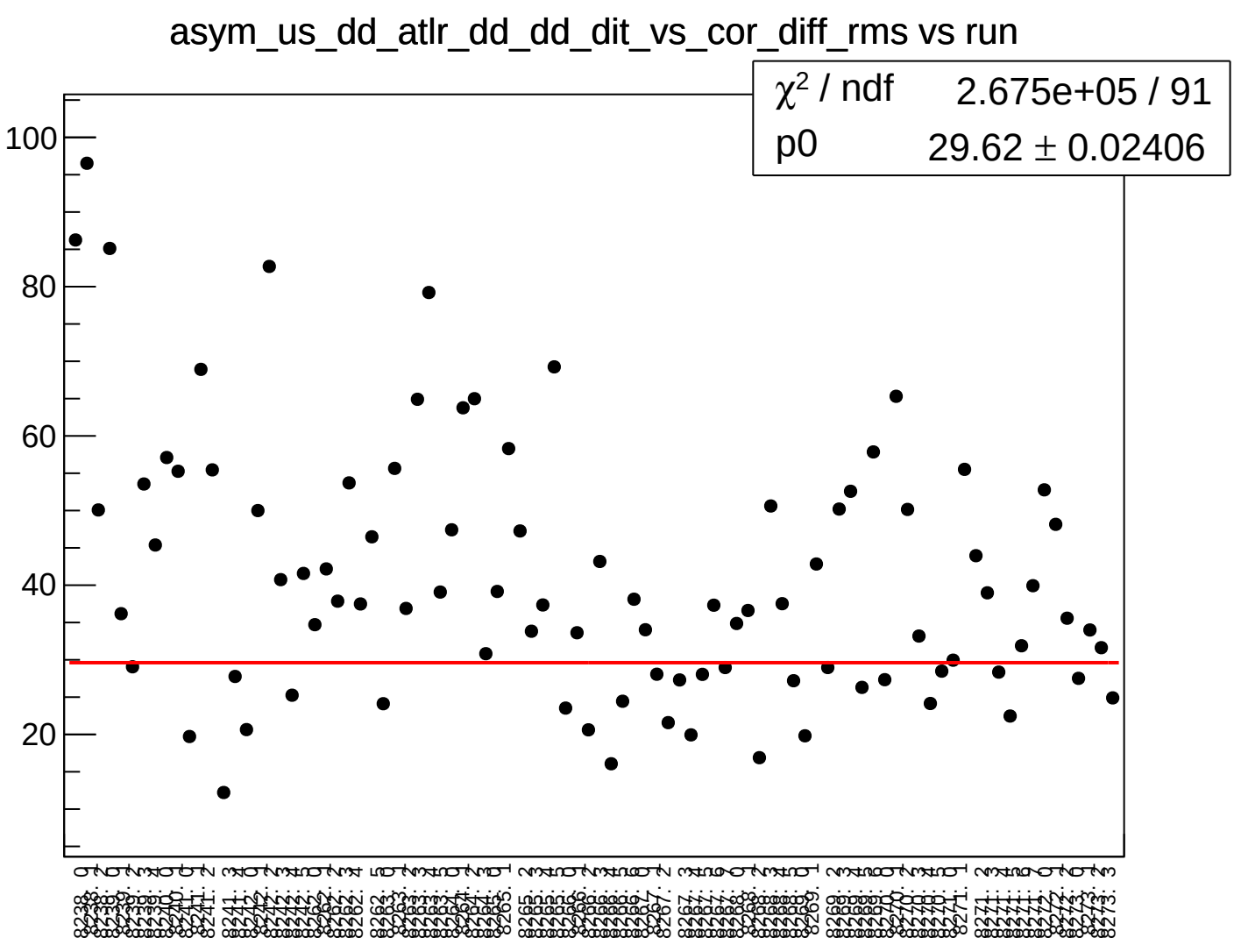

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 90.03 / 91
p0 −200.4 ± 1352
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 305.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.001507
Std Dev 0.9892
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

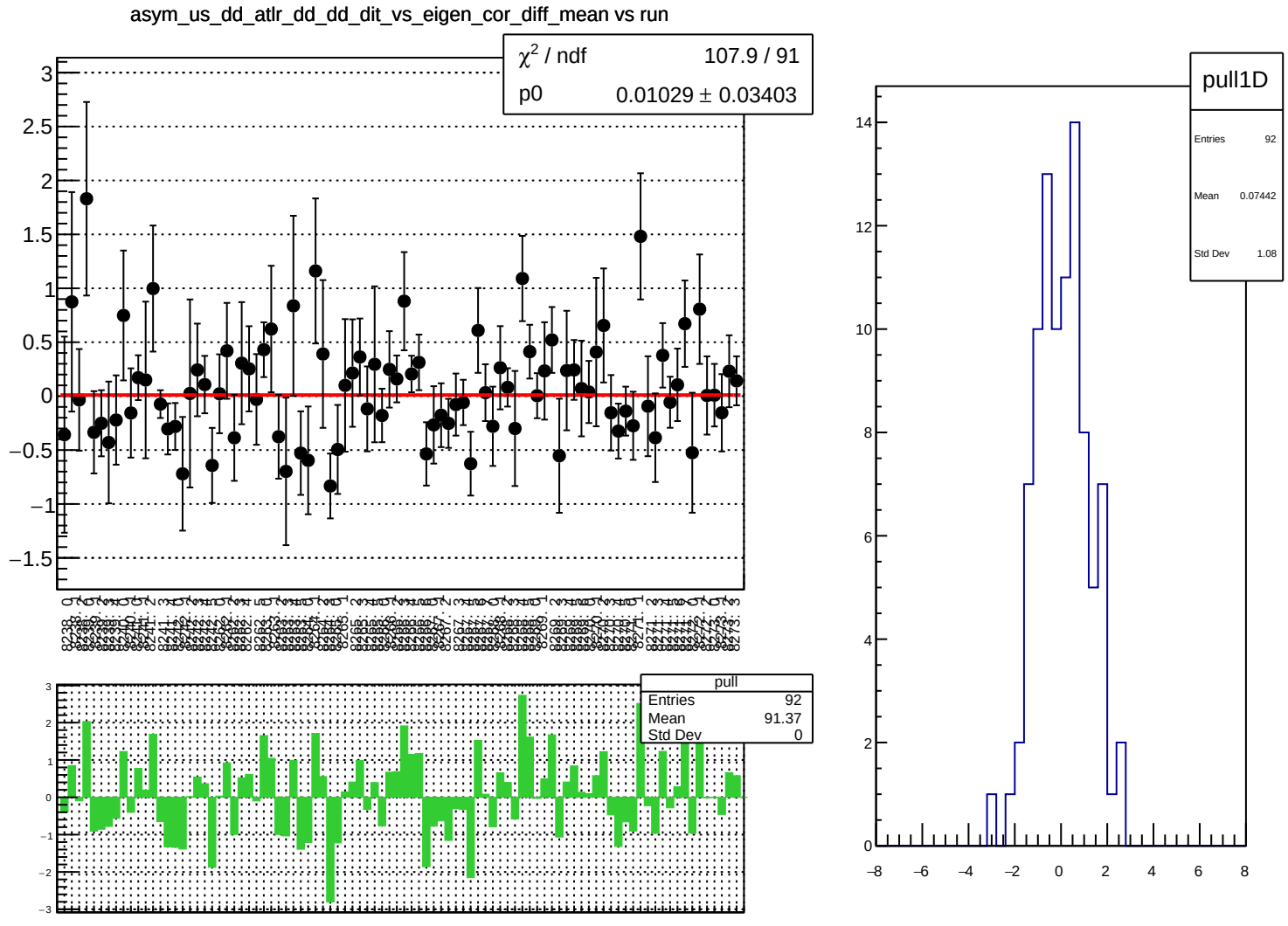

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 617.4 / 91
p0 1276 ± 0.9561
1360
1340
1320
1300
1280
1260
1240
1220

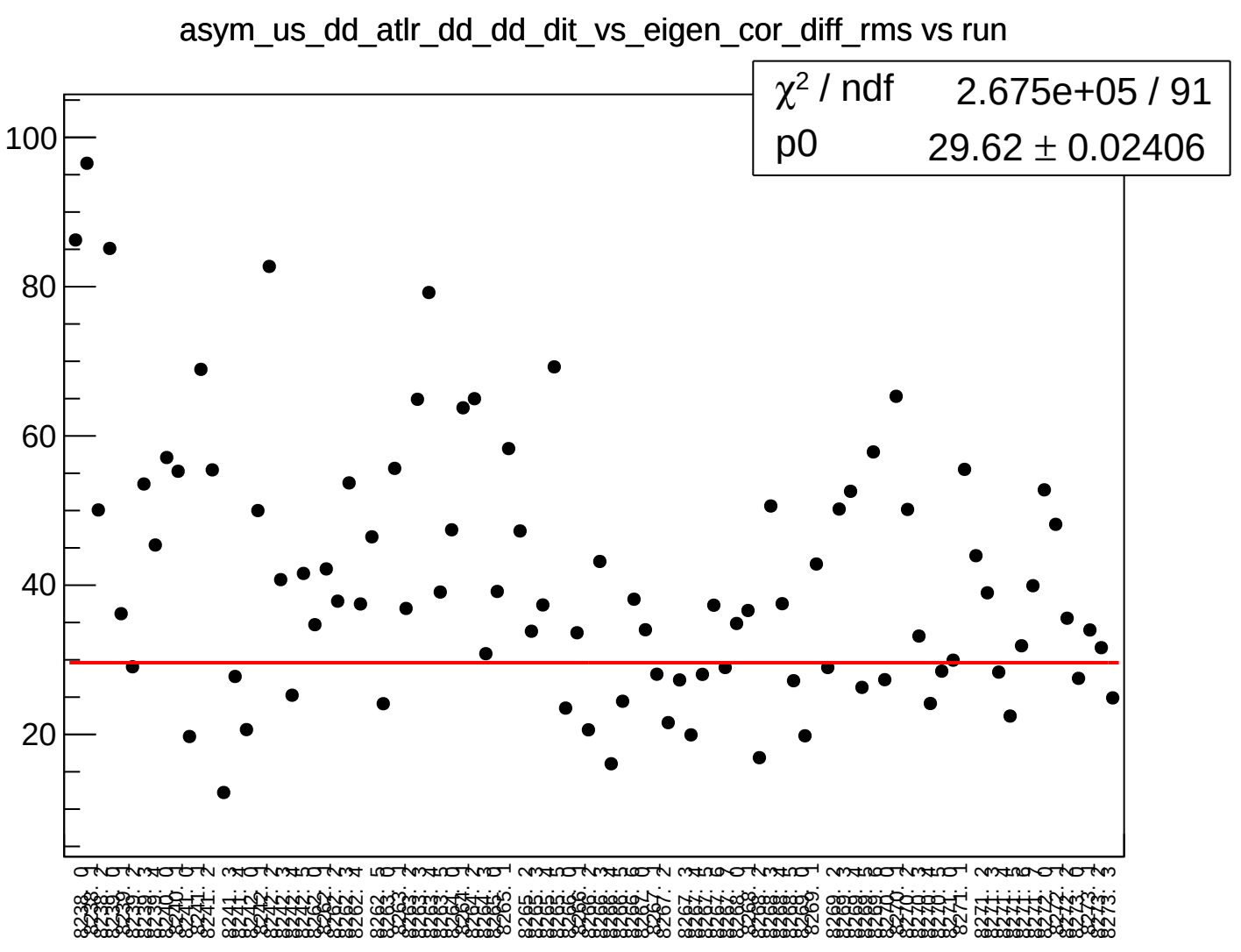

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.7 / 91
p0 4.581e−14 ± 5.805e−14
0.01
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 92
Mean 15.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.1454
Std Dev 0.9253
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

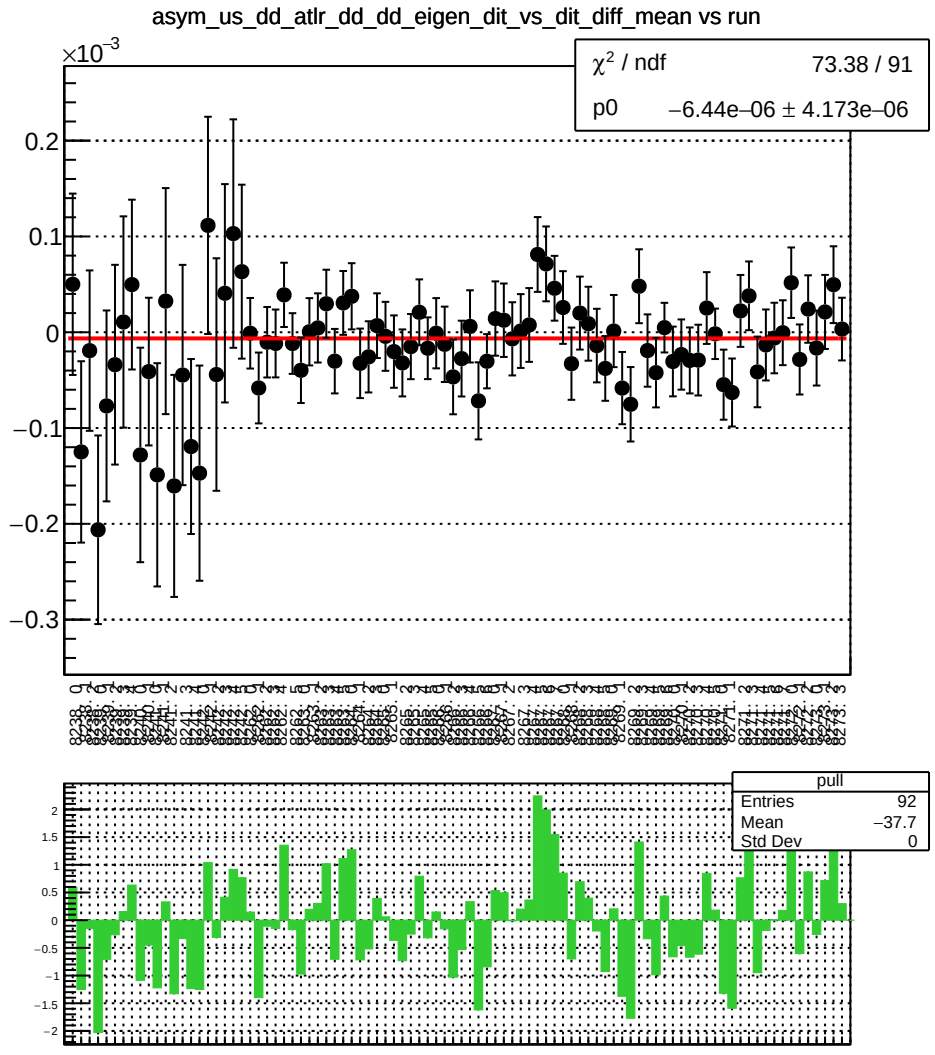

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.048e+06 / 91
p0 3.518e−11 ± 4.105e−14
0.5
0.4
0.3
0.2
0.1
0

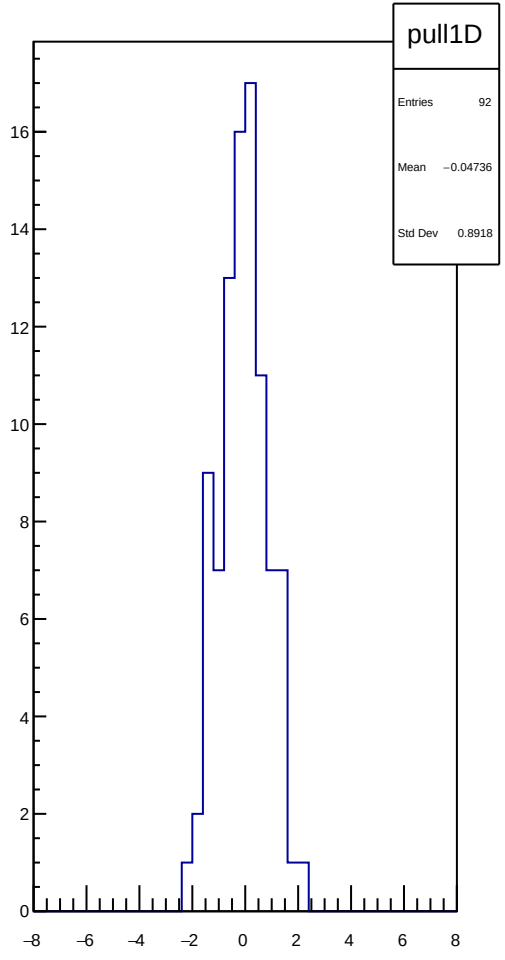

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107.9 / 91
p0 0.01029 ± 0.03403
pull
Entries 92
Mean 91.37
Std Dev 0
pull1D
Entries 92
Mean 0.07442
Std Dev 1.08

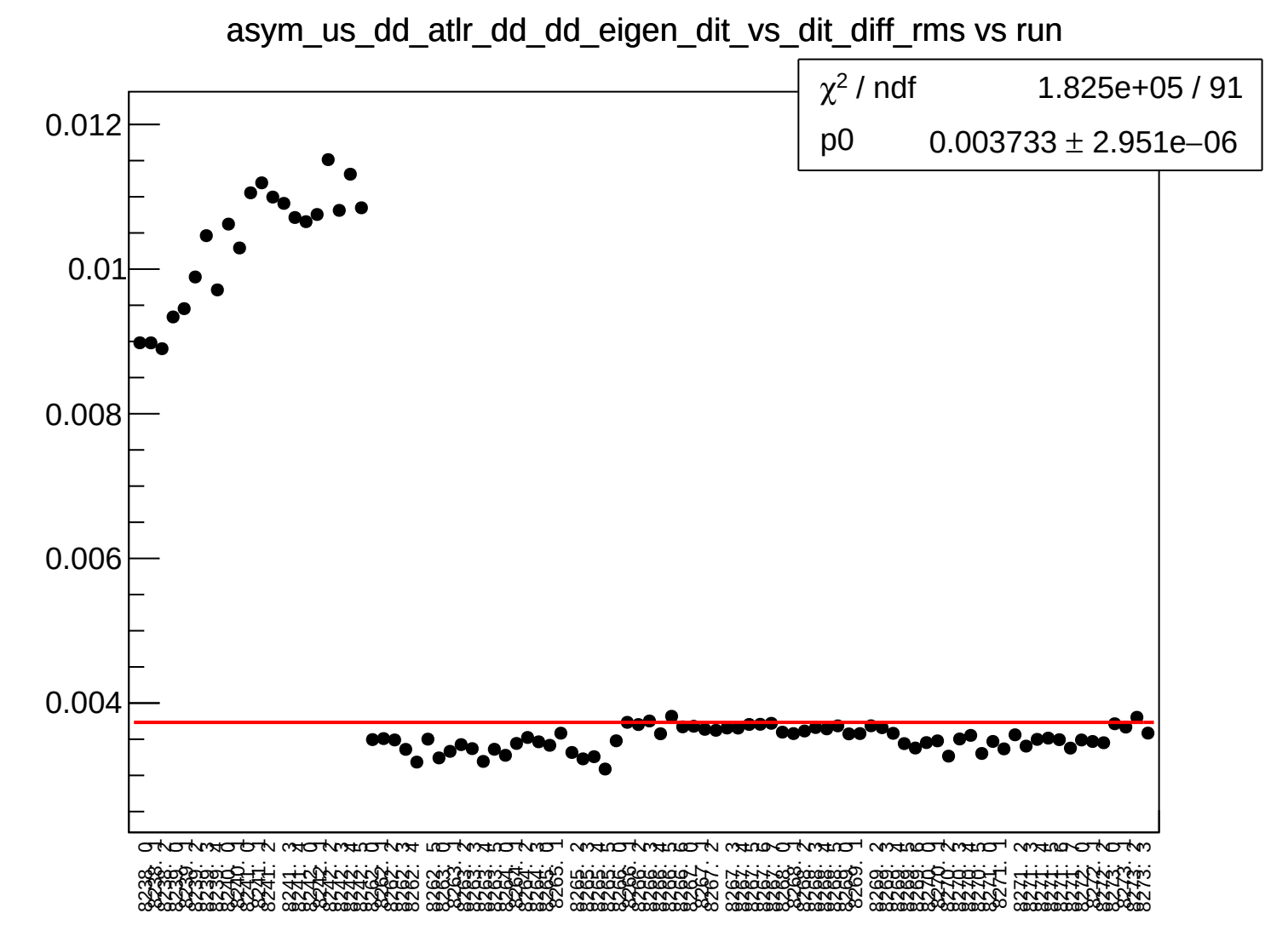

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.675e+05 / 91
p0 29.62 ± 0.02406
100
80
60
40
20

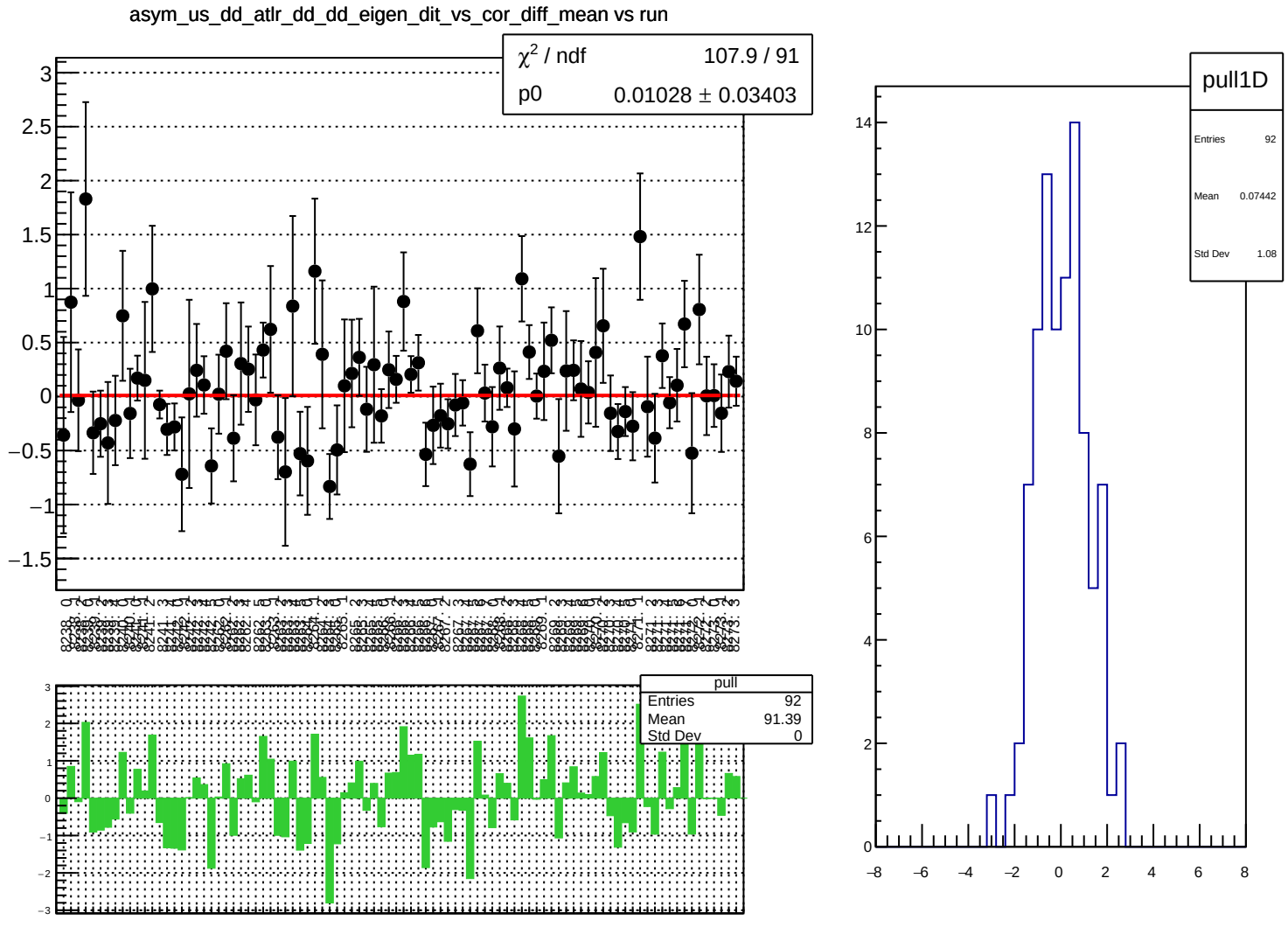

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.9 / 91
p0 0.01029 ± 0.03403
pull
Entries 92
Mean 91.37
Std Dev 0
pull1D
Entries 92
Mean 0.07442
Std Dev 1.08

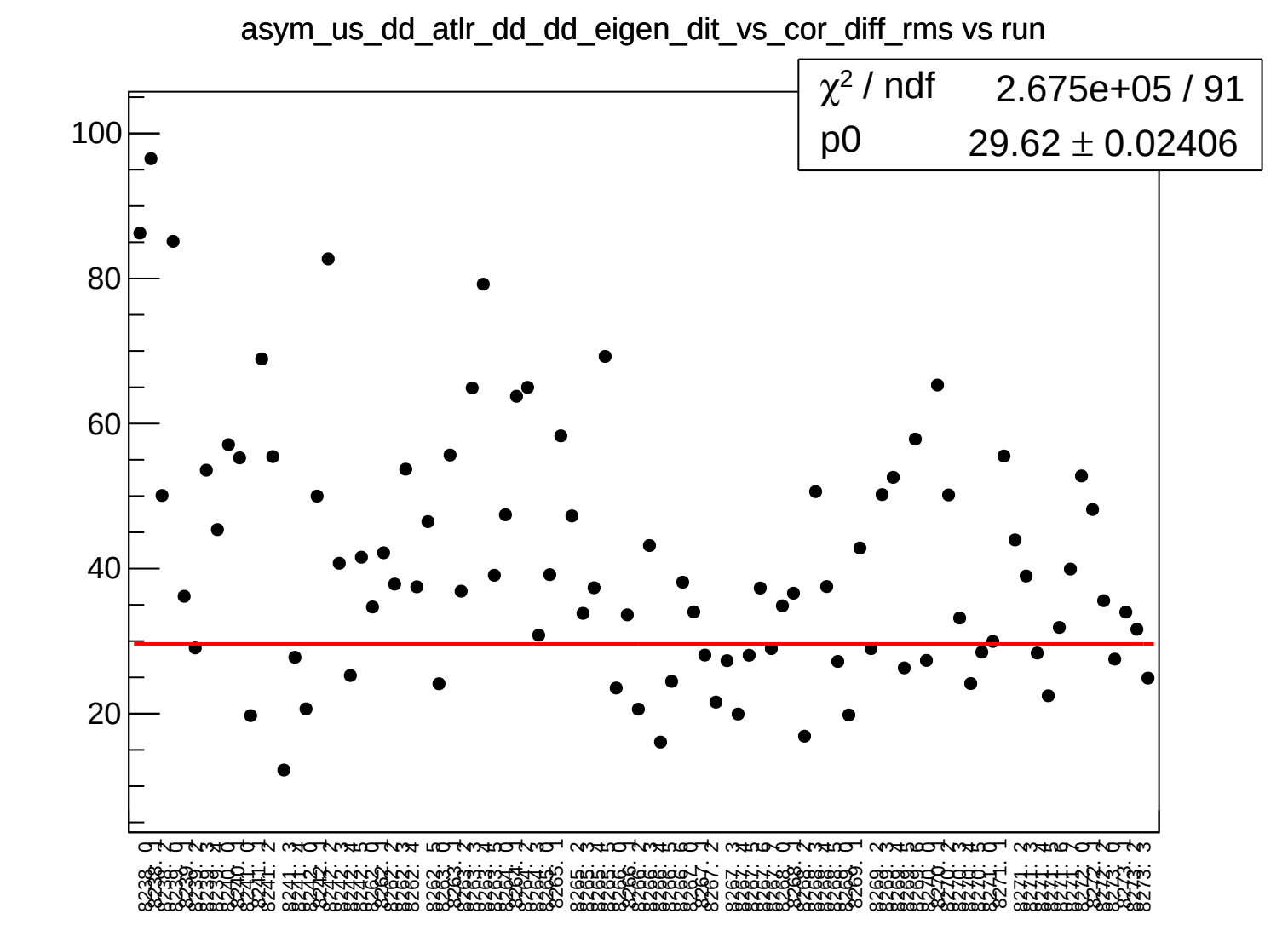

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.675e+05 / 91
p0 29.62 ± 0.02406
100
80
60
40
20

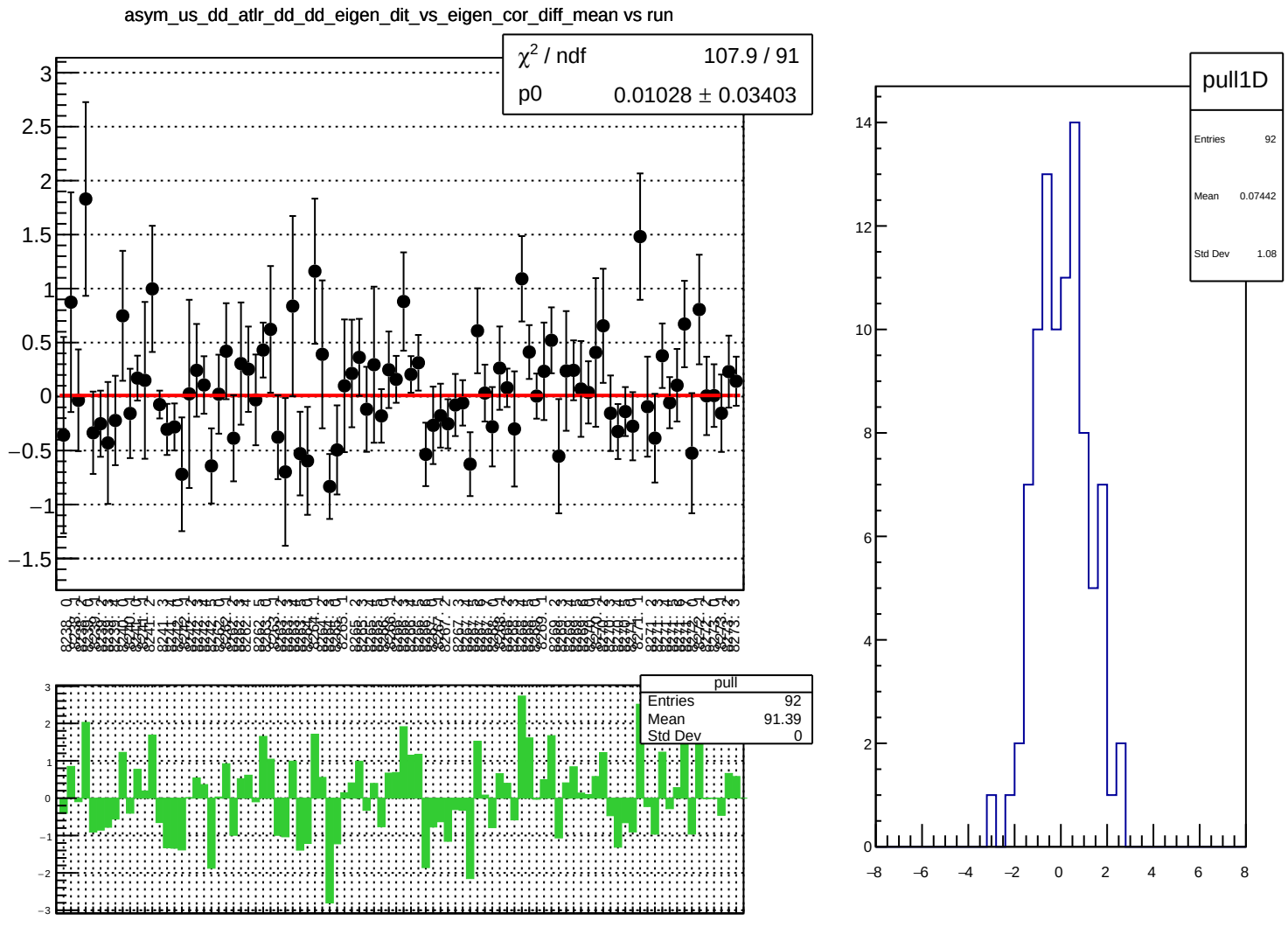

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 73.38 / 91
p0 −6.44e−06 ± 4.173e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 92
Mean −37.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

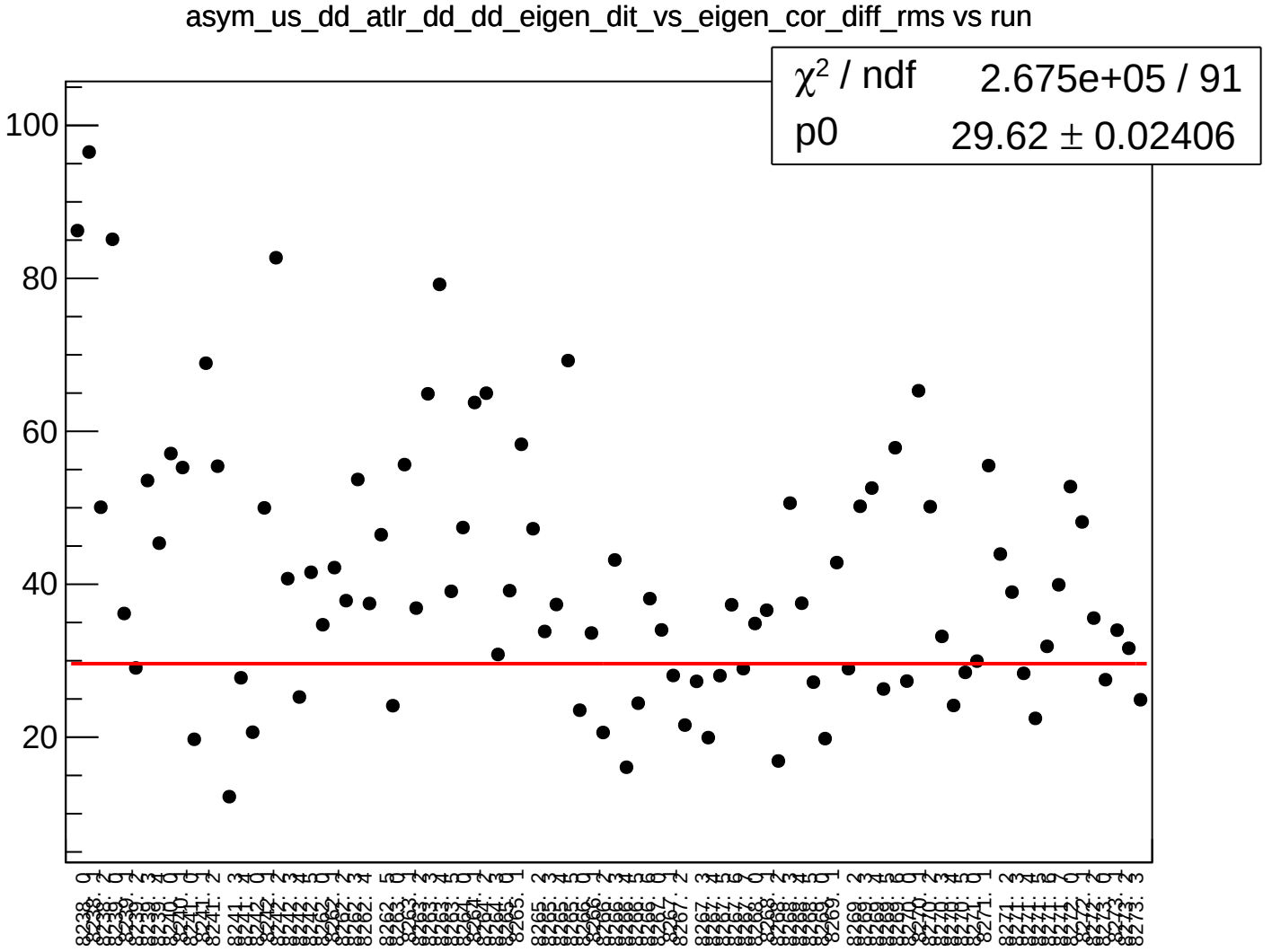

pull1D
Entries 92
Mean −0.04736
Std Dev 0.8918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

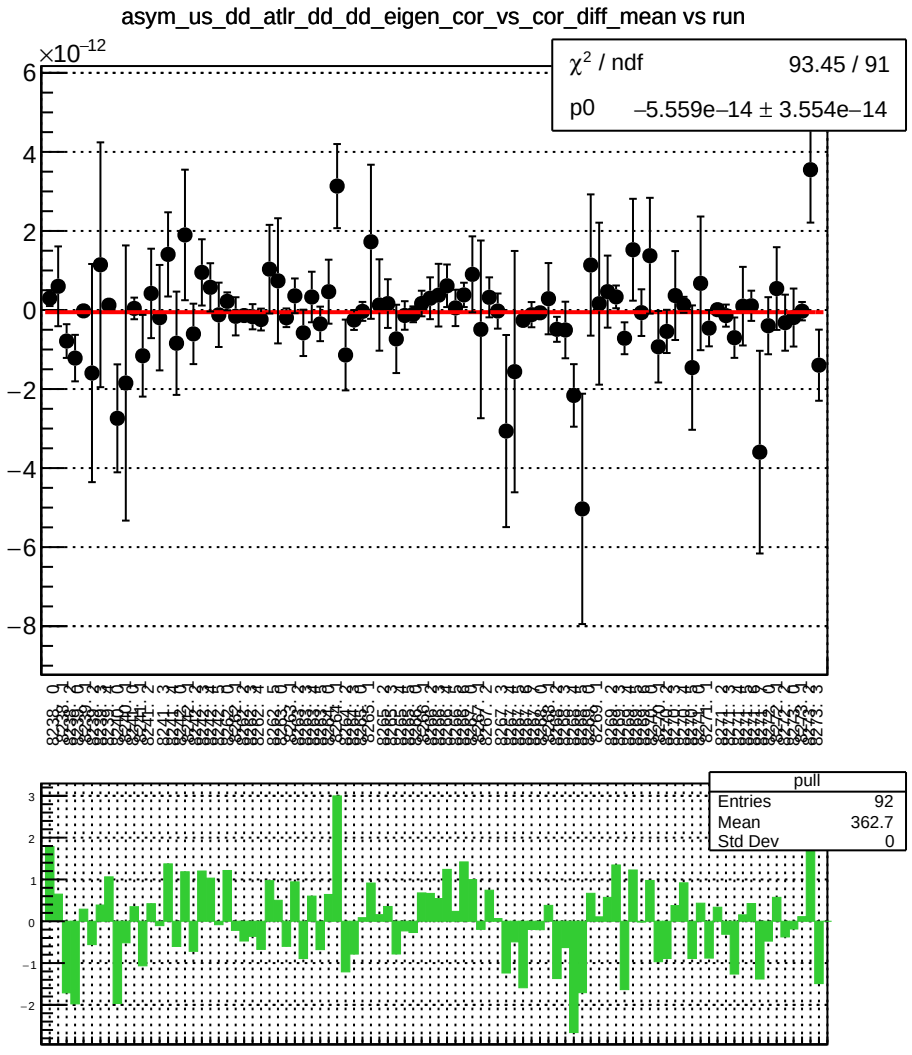

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.825e+05 / 91
p0 0.003733 ± 2.951e−06
0.012
0.01
0.008
0.006
0.004

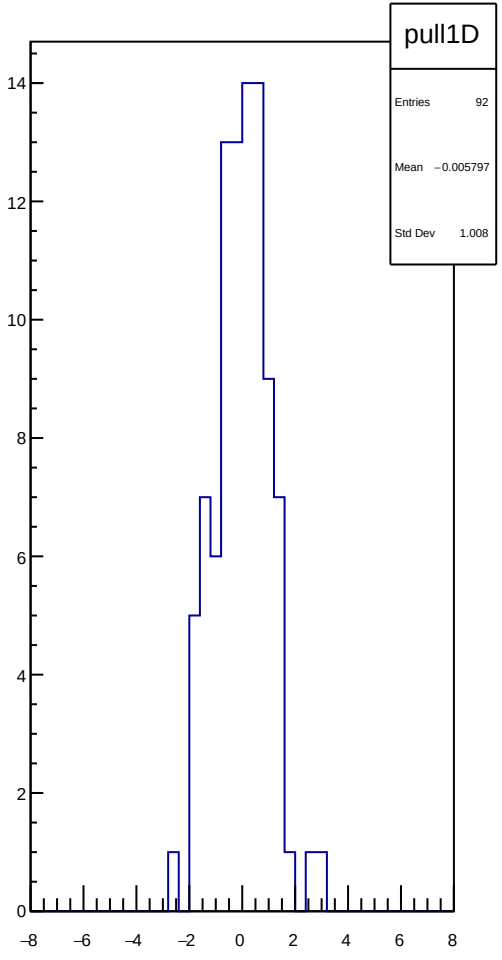

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.9 / 91
p0 0.01028 ± 0.03403
pull
Entries 92
Mean 91.39
Std Dev 0
pull1D
Entries 92
Mean 0.07442
Std Dev 1.08

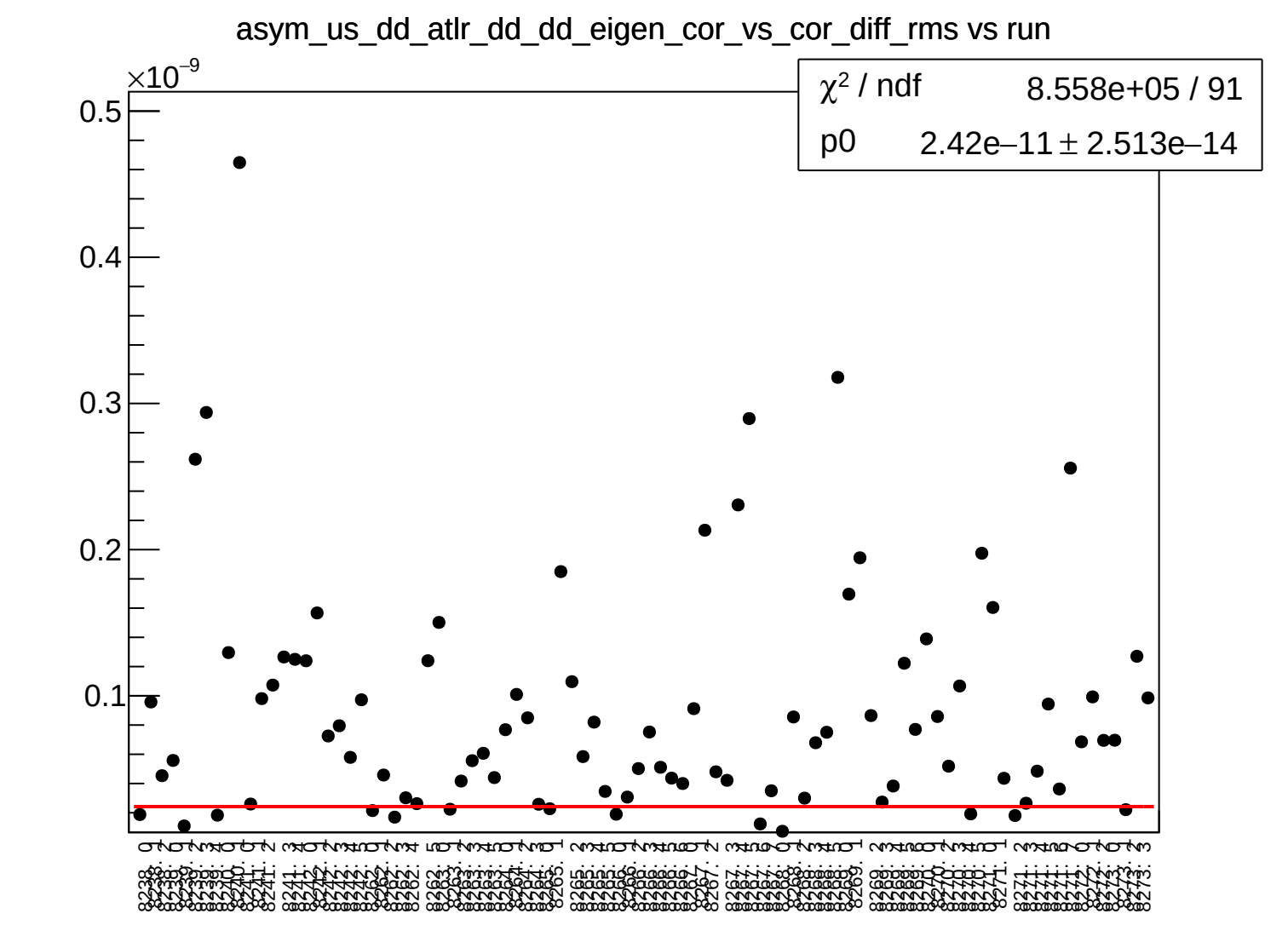

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.675e+05 / 91
p0 29.62 ± 0.02406
100
80
60
40
20

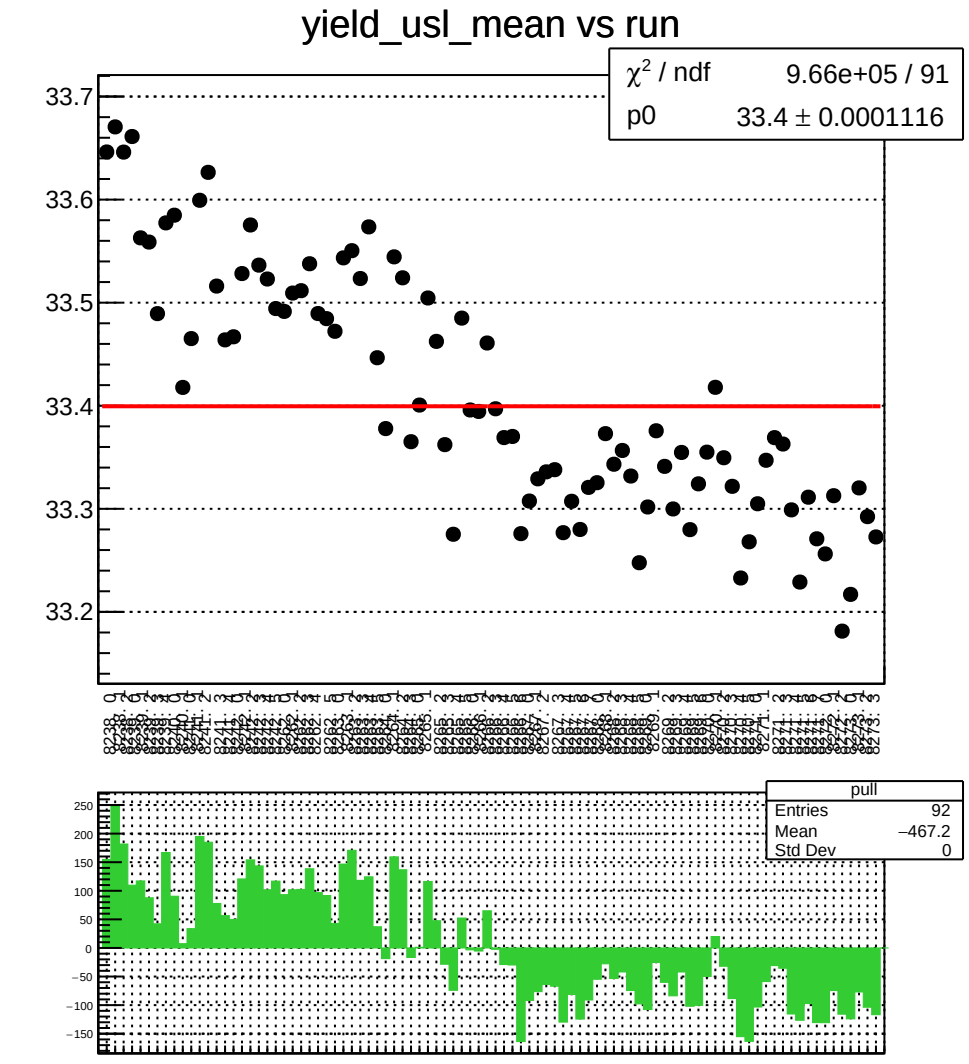

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.9 / 91
p0 0.01028 ± 0.03403
pull
Entries 92
Mean 91.39
Std Dev 0
pull1D
Entries 92
Mean 0.07442
Std Dev 1.08

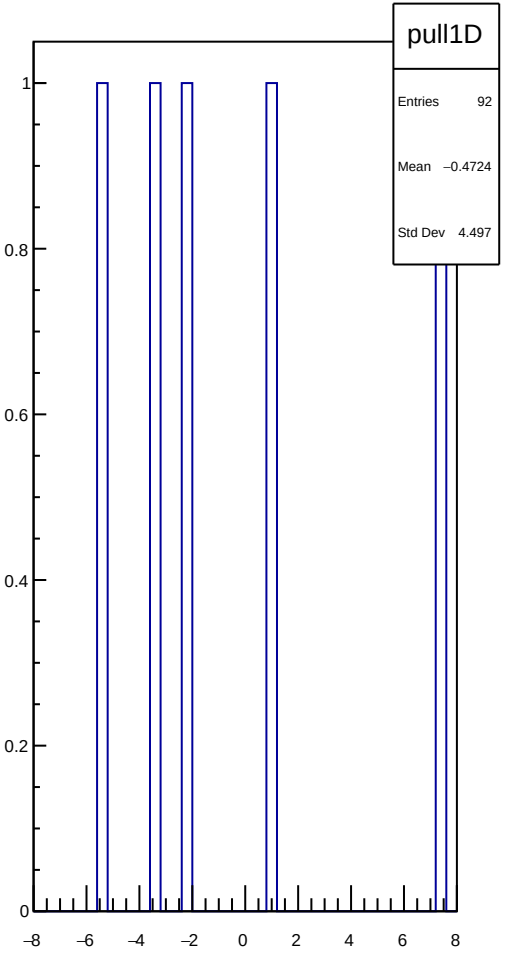

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.675e+05 / 91
p0 29.62 ± 0.02406
100
80
60
40
20

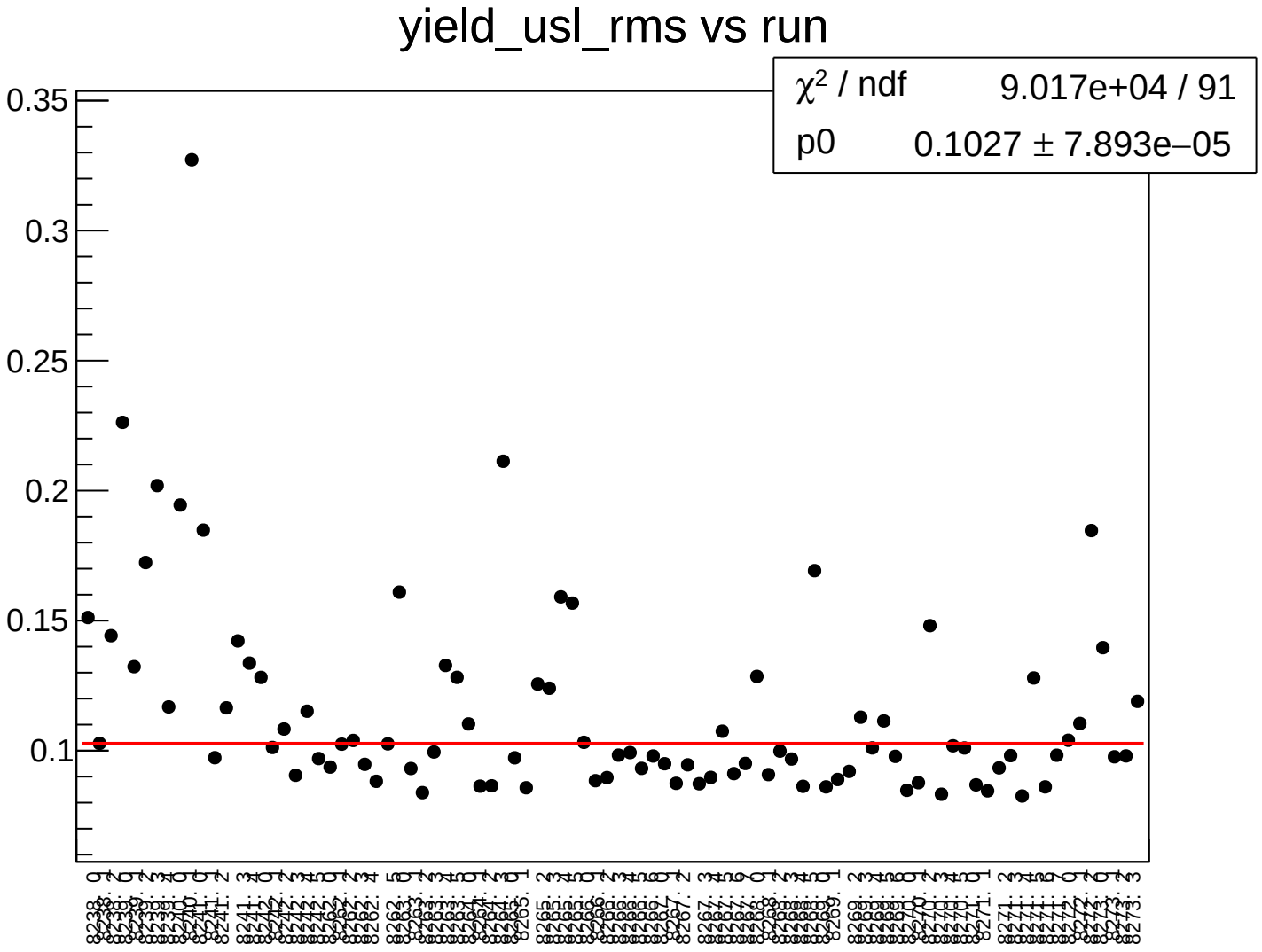

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.45 / 91
p0 −5.559e−14 ± 3.554e−14
pull
Entries 92
Mean 362.7
Std Dev 0

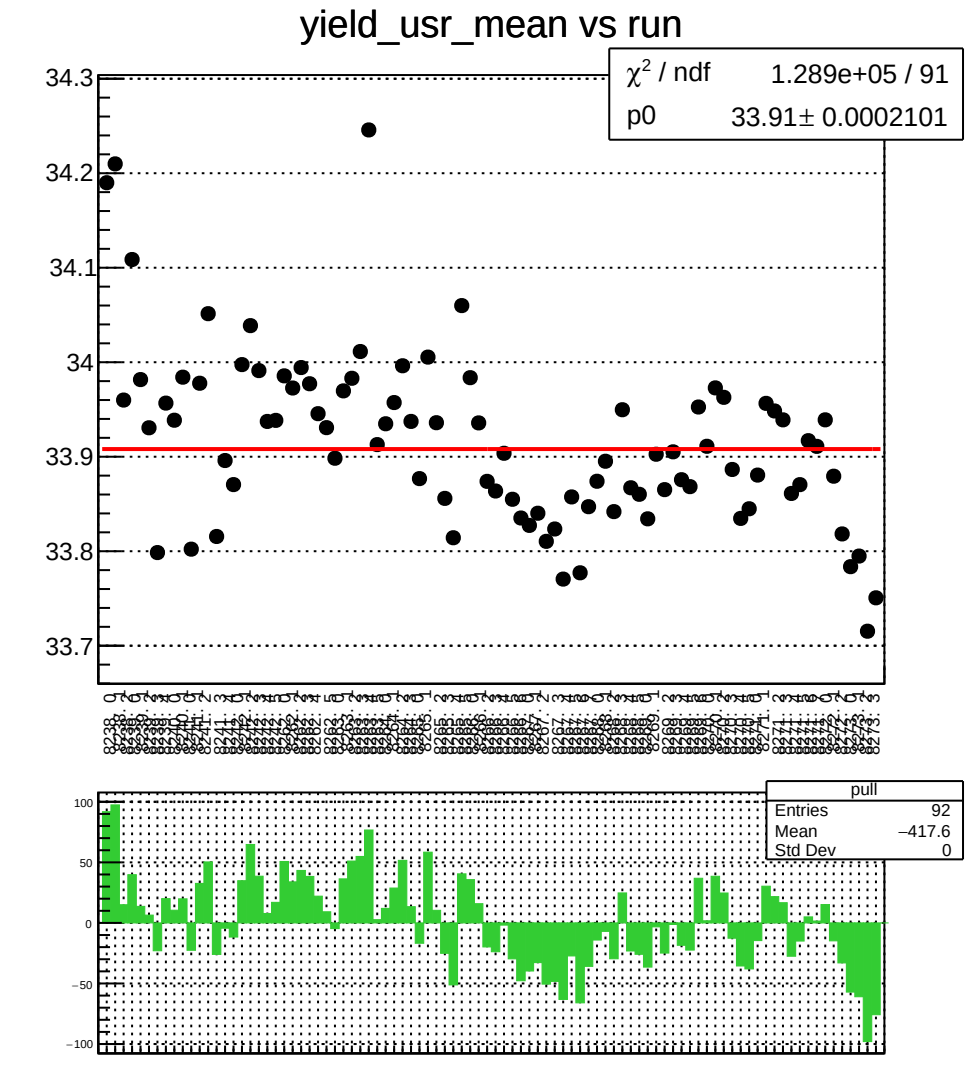

pull1D
Entries 92
Mean −0.005797
Std Dev 1.008

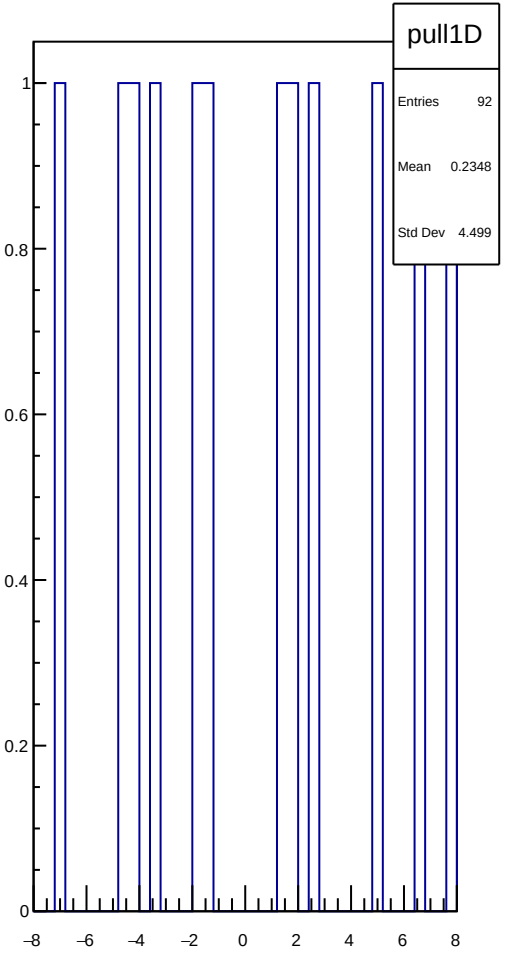

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.5
0.4
0.3
0.2
0.1
χ² / ndf 8.558e+05 / 91
p0 2.42e−11 ± 2.513e−14

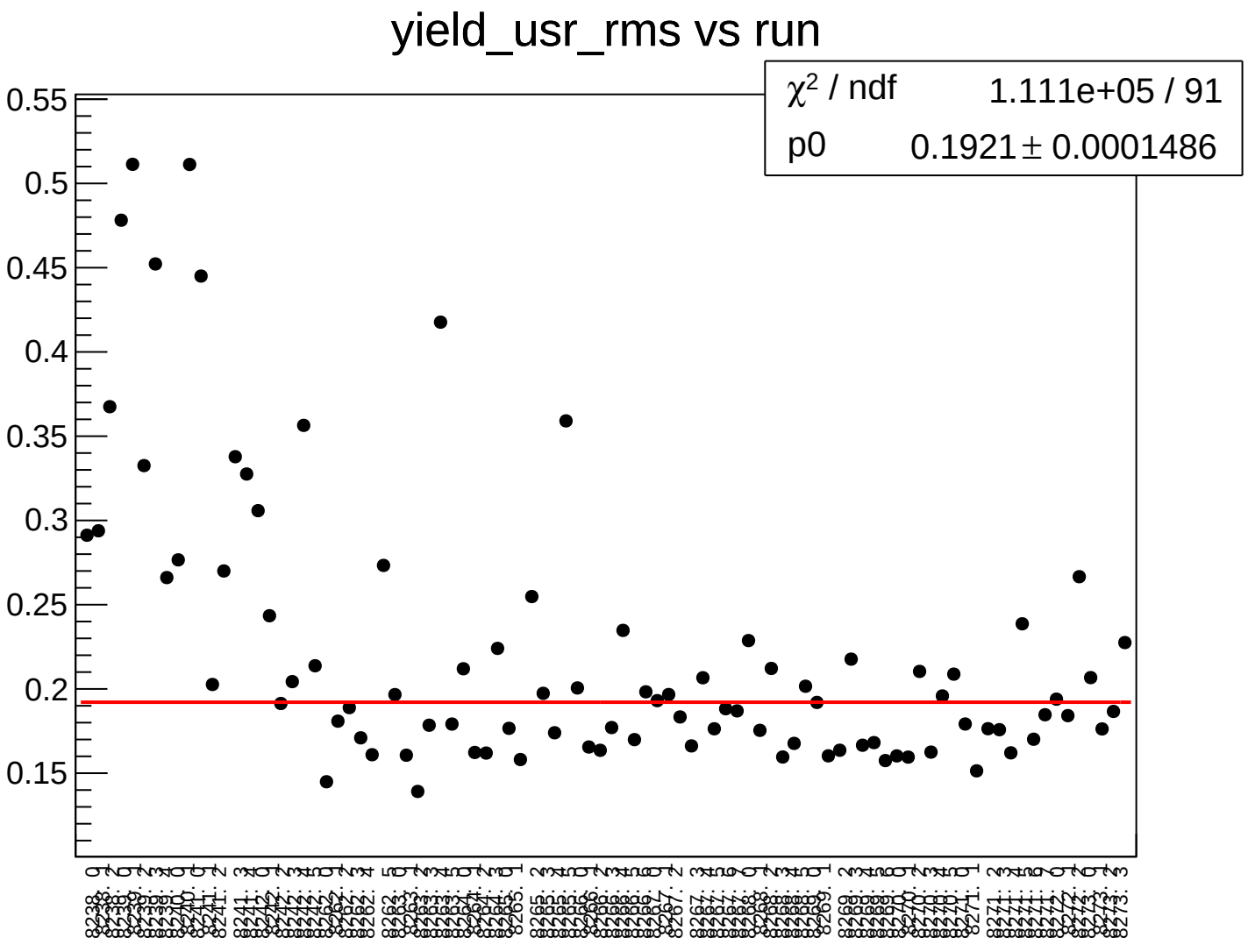

yield_usl_mean vs run
χ² / ndf 9.66e+05 / 91
p0 33.4 ± 0.0001116
33.7
33.6
33.5
33.4
33.3
33.2
pull
Entries 92
Mean −467.2
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

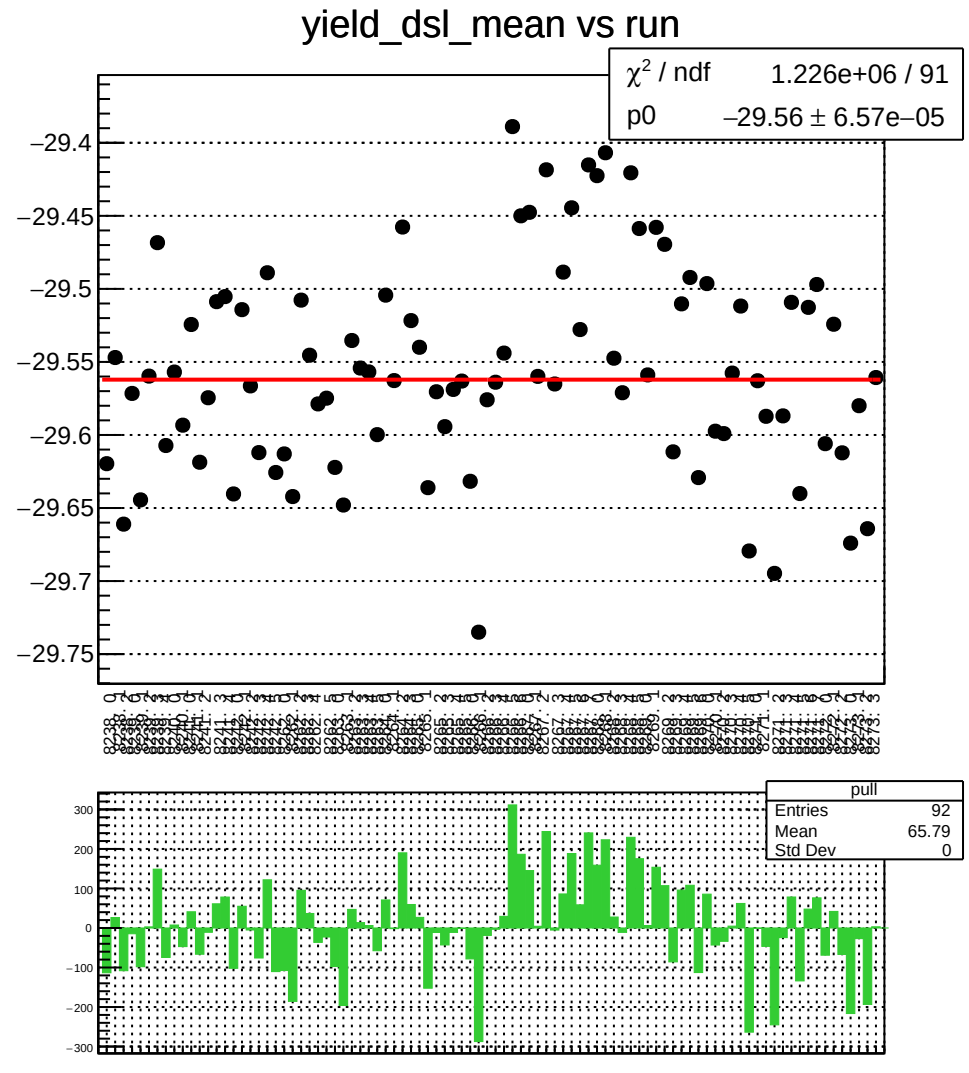

pull1D
Entries 92
Mean −0.4724
Std Dev 4.497
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

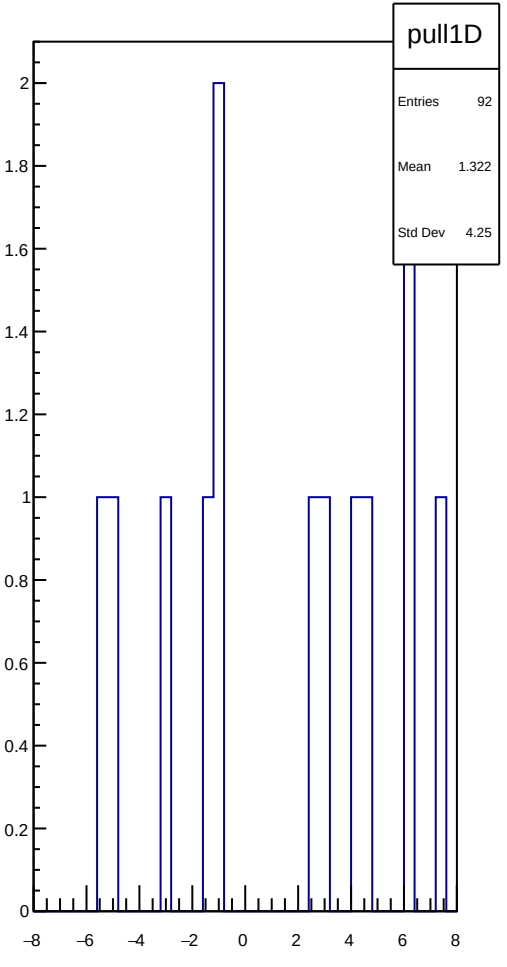

yield_usl_rms vs run
χ² / ndf 9.017e+04 / 91
p0 0.1027 ± 7.893e−05
0.35
0.3
0.25
0.2
0.15
0.1

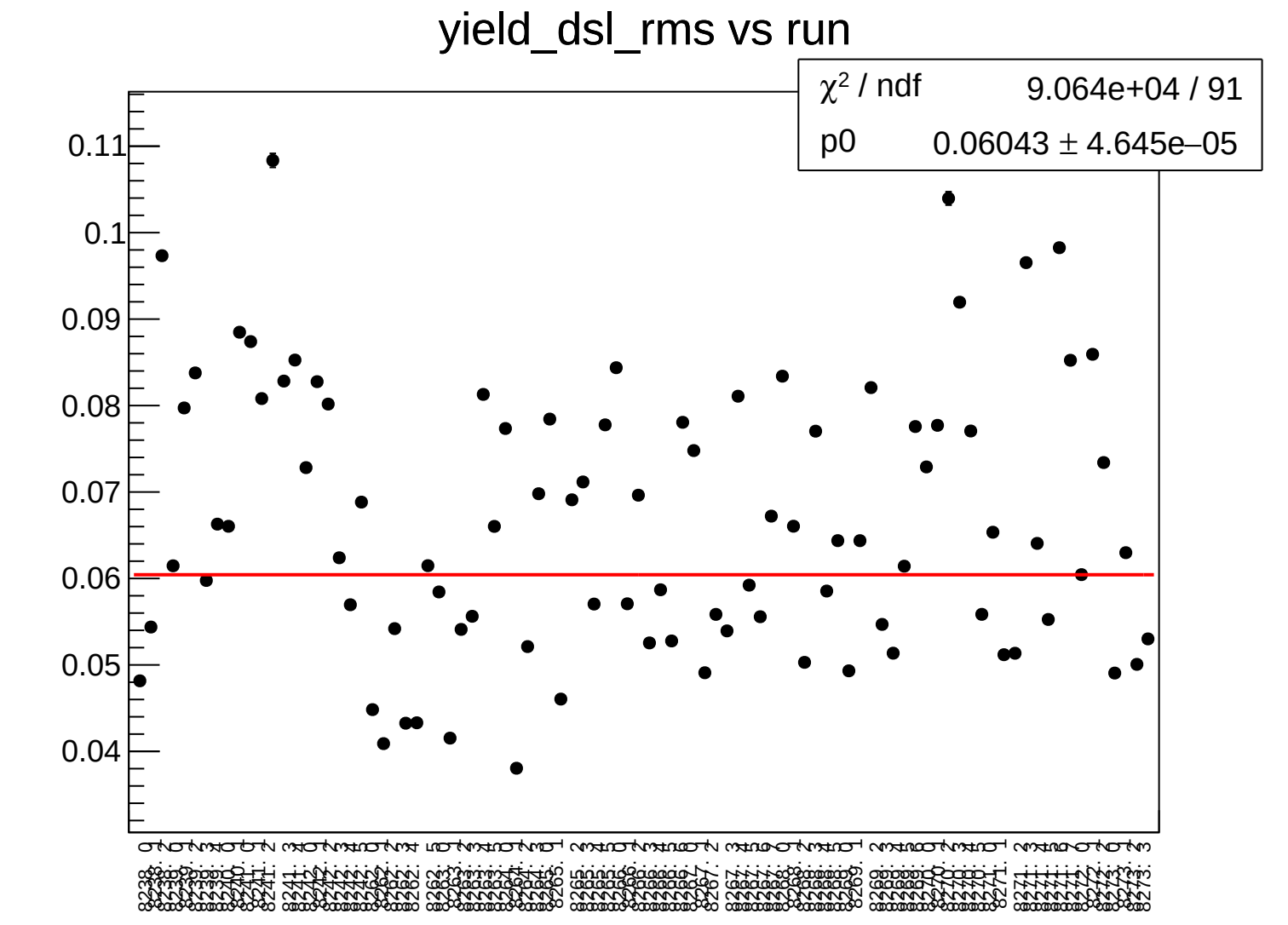

yield_usr_mean vs run
χ² / ndf 1.289e+05 / 91
p0 33.91± 0.0002101
34.3
34.2
34.1
34
33.9
33.8
33.7
pull
Entries 92
Mean −417.6
Std Dev 0
100
50
0
−50
−100

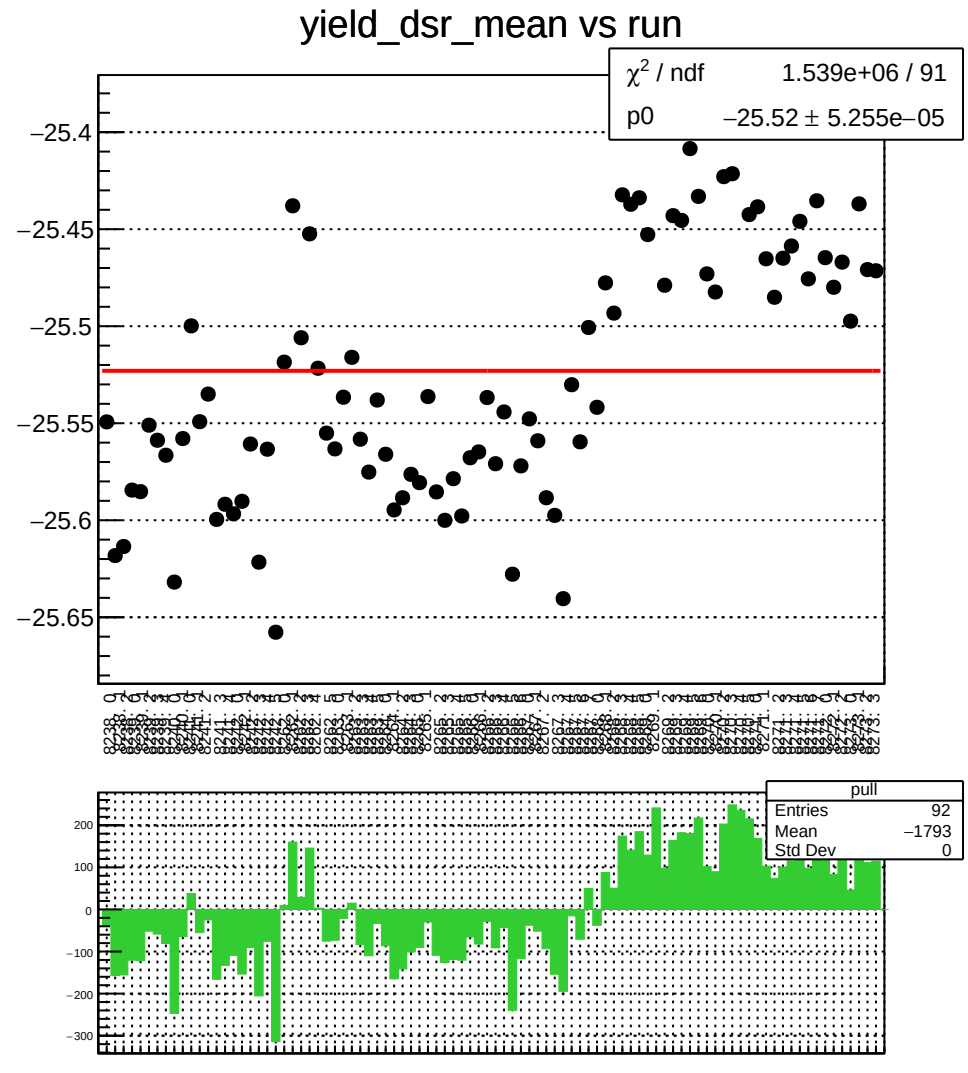

pull1D
Entries 92
Mean 0.2348
Std Dev 4.499
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

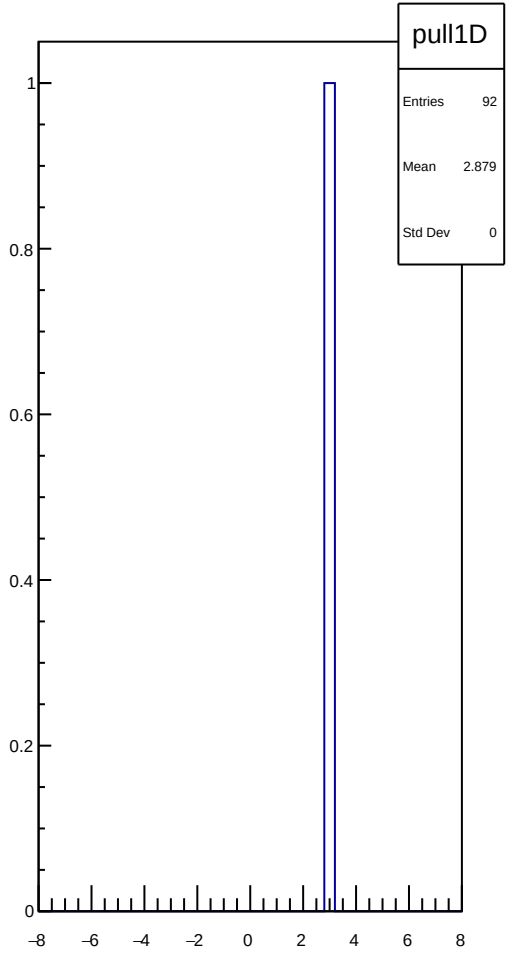

yield_usr_rms vs run
χ² / ndf 1.111e+05 / 91
p0 0.1921 ± 0.0001486
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15

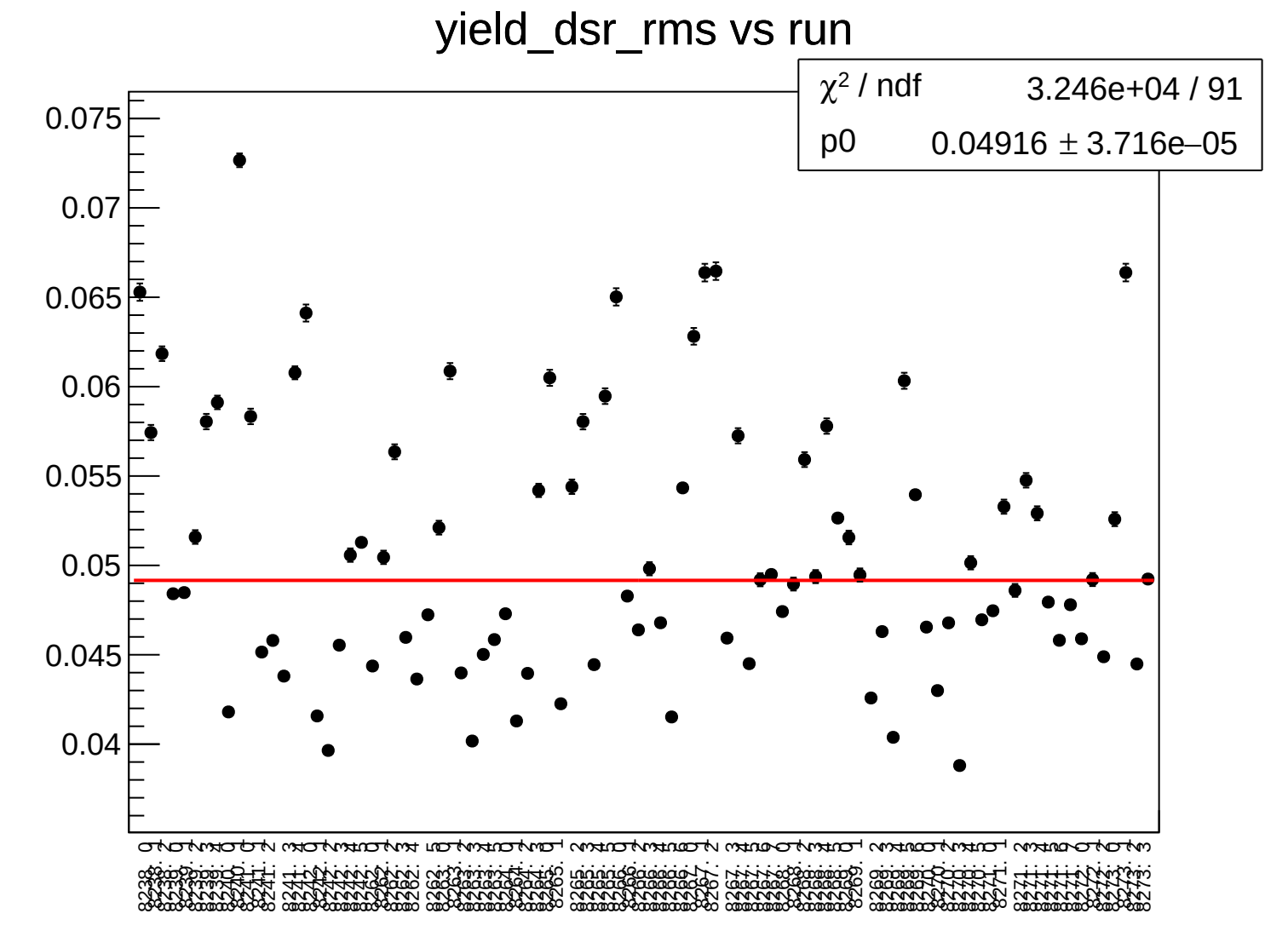

yield_dsl_mean vs run
χ² / ndf 1.226e+06 / 91
p0 −29.56 ± 6.57e−05
−29.4
−29.45
−29.5
−29.55
−29.6
−29.65
−29.7
−29.75
pull
Entries 92
Mean 65.79
Std Dev 0
300
200
100
0
−100
−200
−300

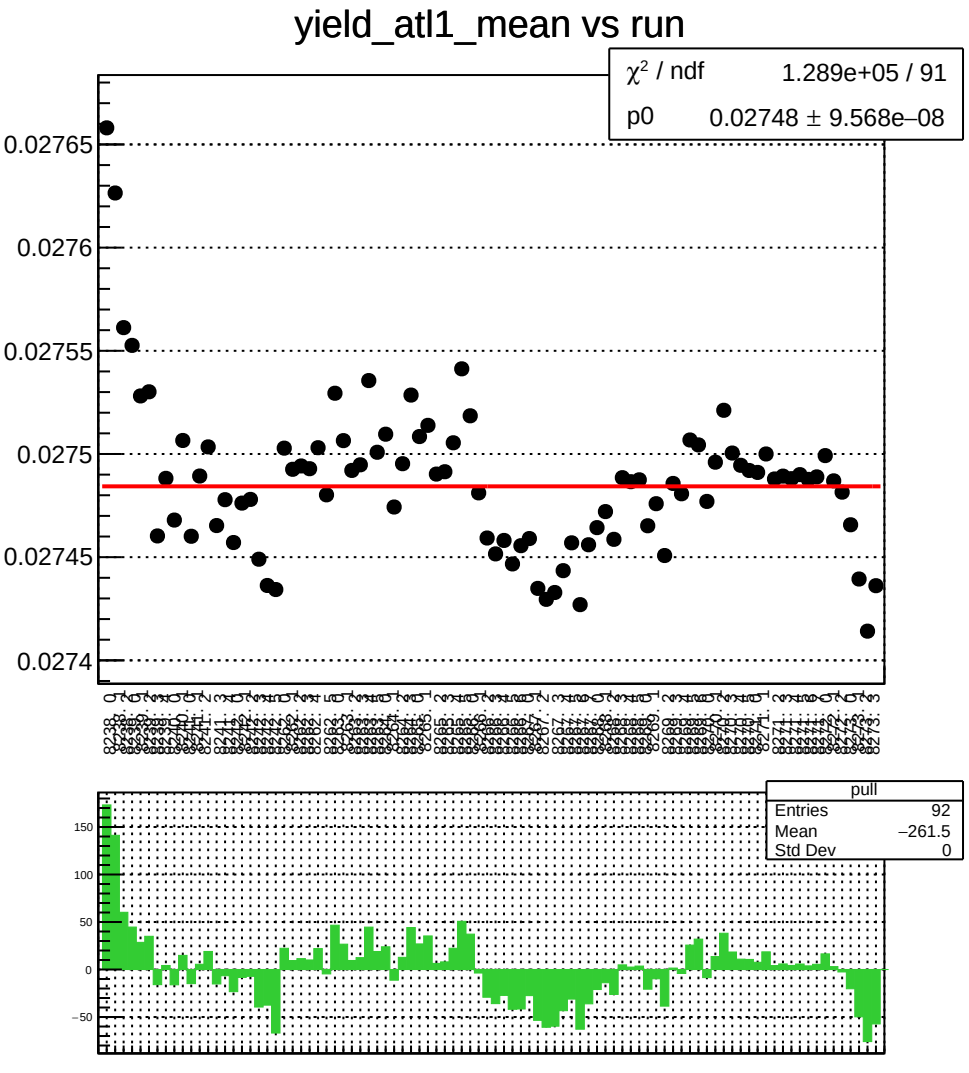

pull1D
Entries 92
Mean 1.322
Std Dev 4.25
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

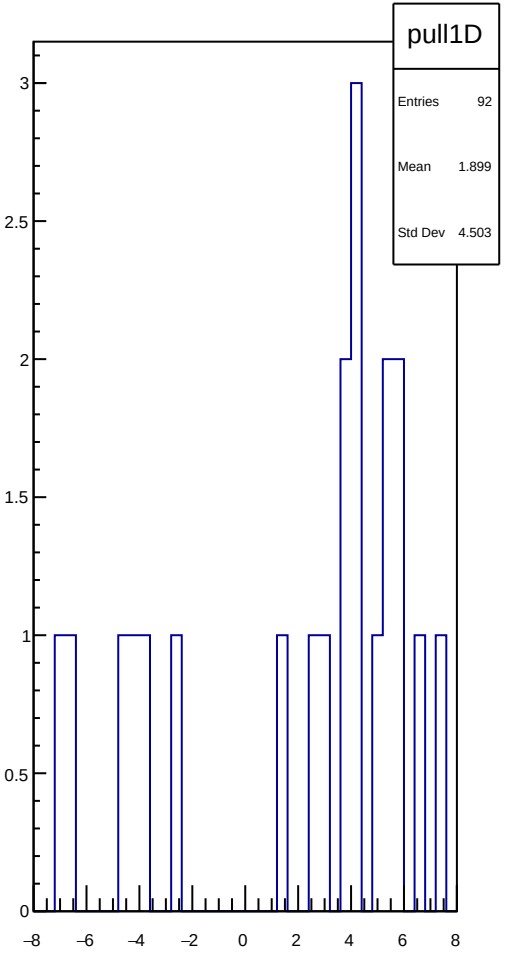

yield_dsl_rms vs run
χ² / ndf 9.064e+04 / 91
p0 0.06043 ± 4.645e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

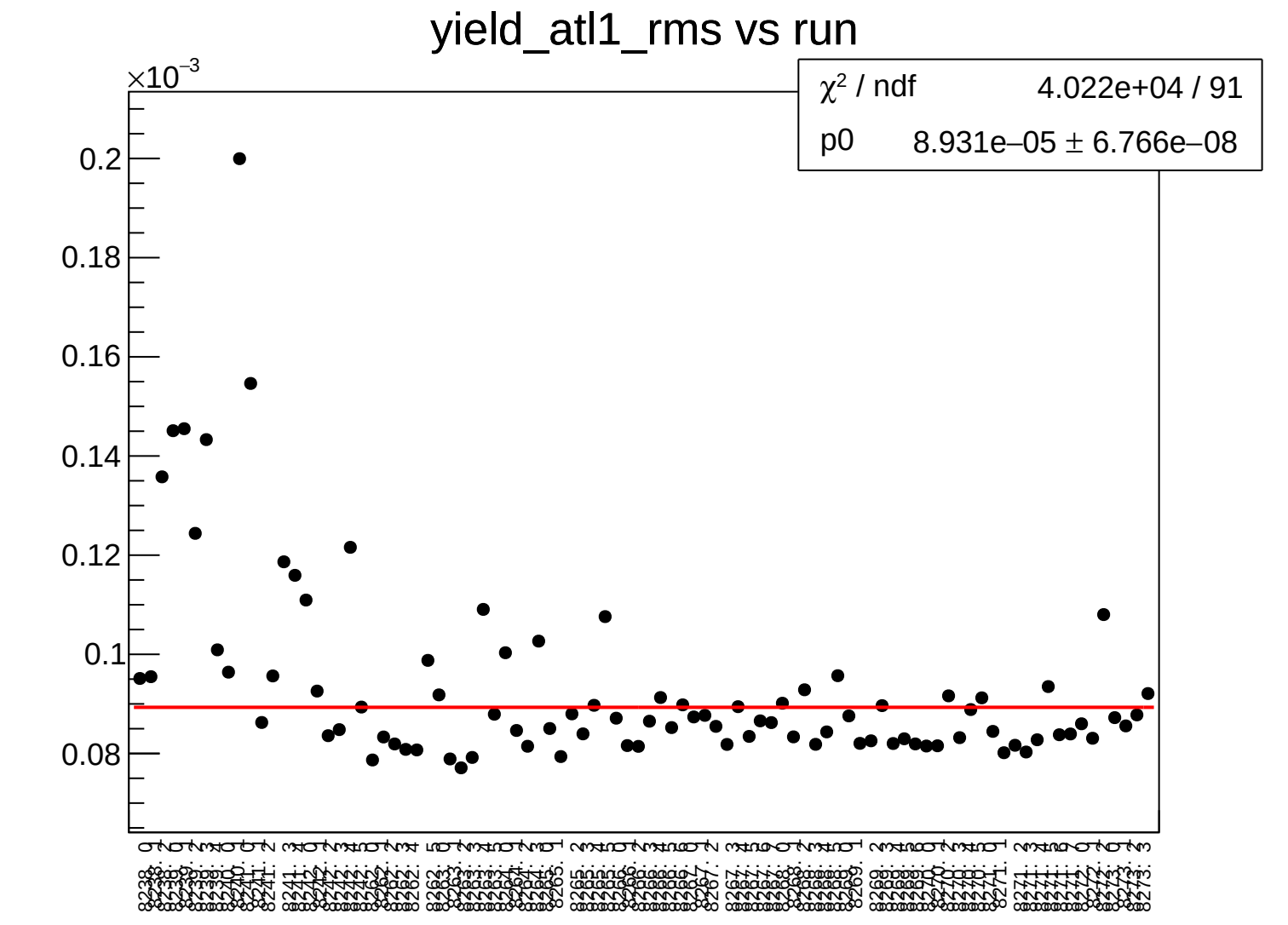

yield_dsr_mean vs run
χ² / ndf 1.539e+06 / 91
p0 −25.52 ± 5.255e−05
−25.4
−25.45
−25.5
−25.55
−25.6
−25.65
pull
Entries 92
Mean −1793
Std Dev 0
200
100
0
−100
−200
−300

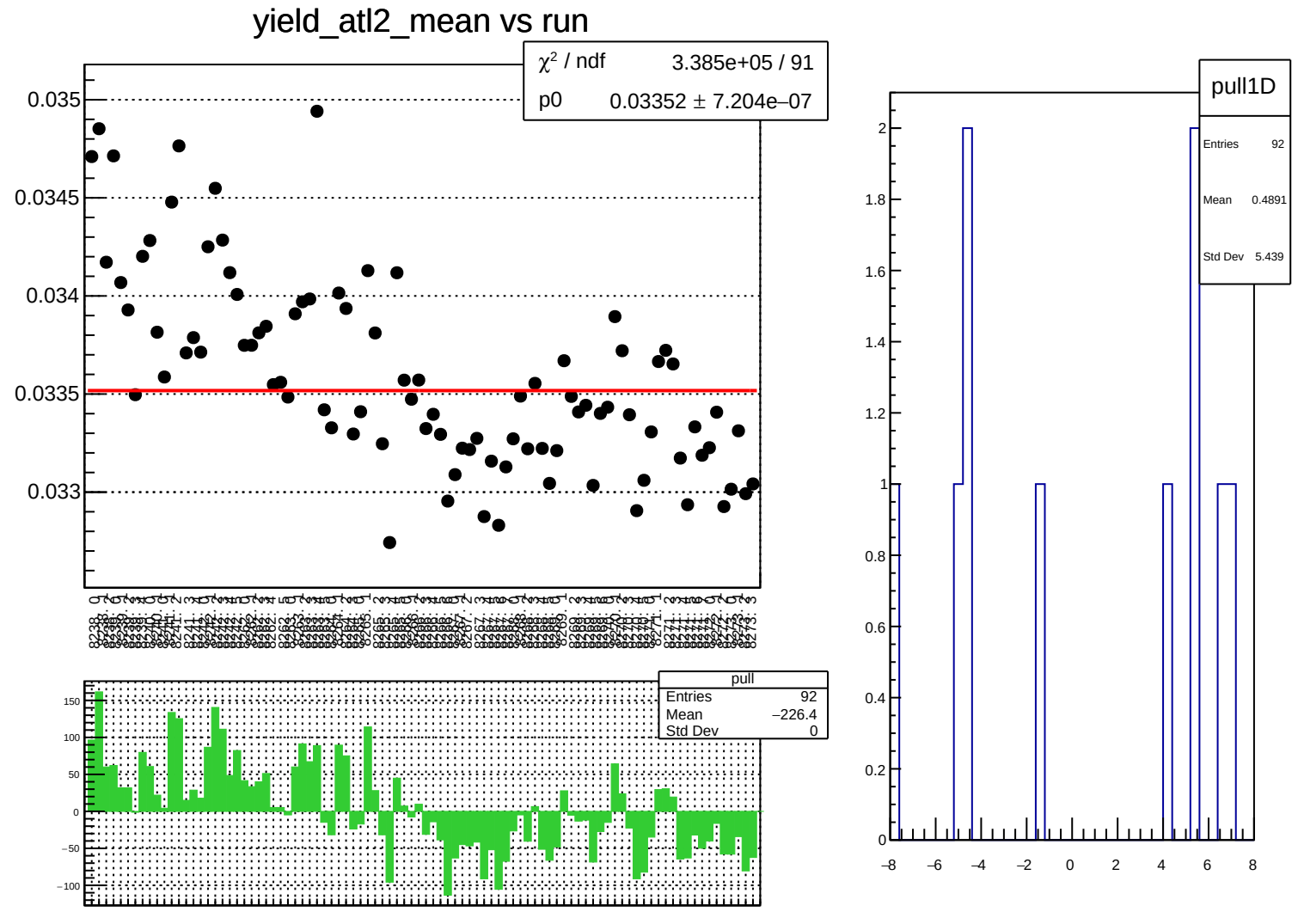

pull1D
Entries 92
Mean 2.879
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

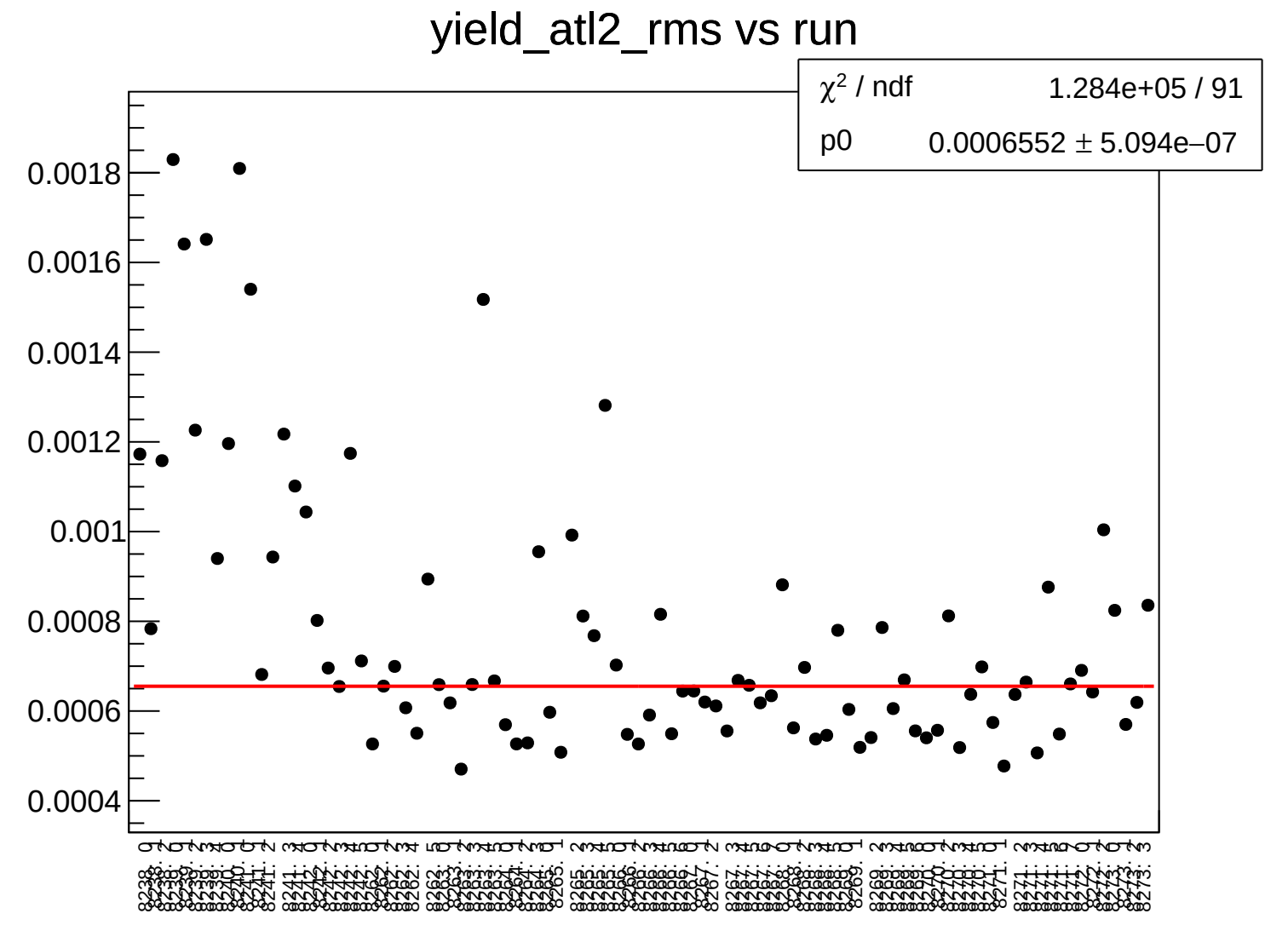

yield_dsr_rms vs run
χ² / ndf 3.246e+04 / 91
p0 0.04916 ± 3.716e−05
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04

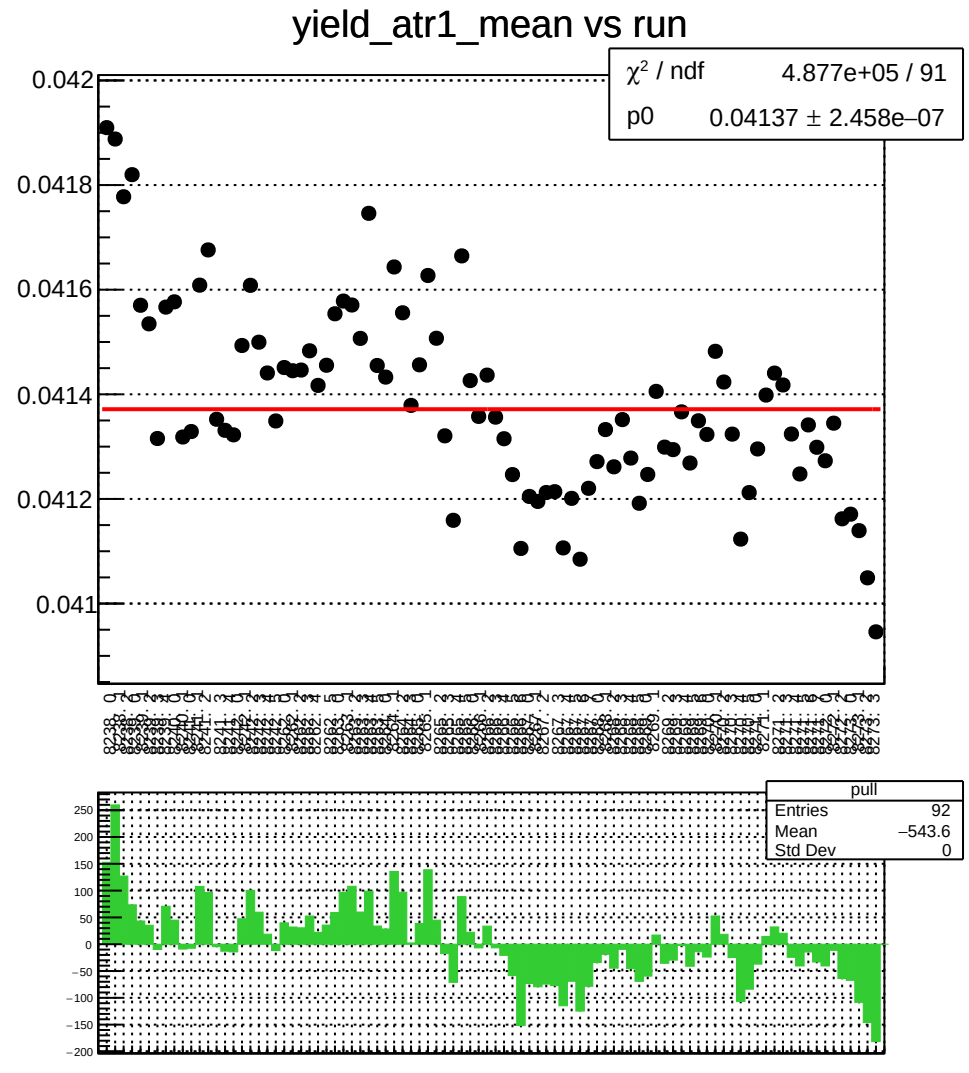

yield_atl1_mean vs run
χ² / ndf 1.289e+05 / 91
p0 0.02748 ± 9.568e−08
0.02765
0.0276
0.02755
0.0275
0.02745
0.0274
pull
Entries 92
Mean −261.5
Std Dev 0
150
100
50
0
−50

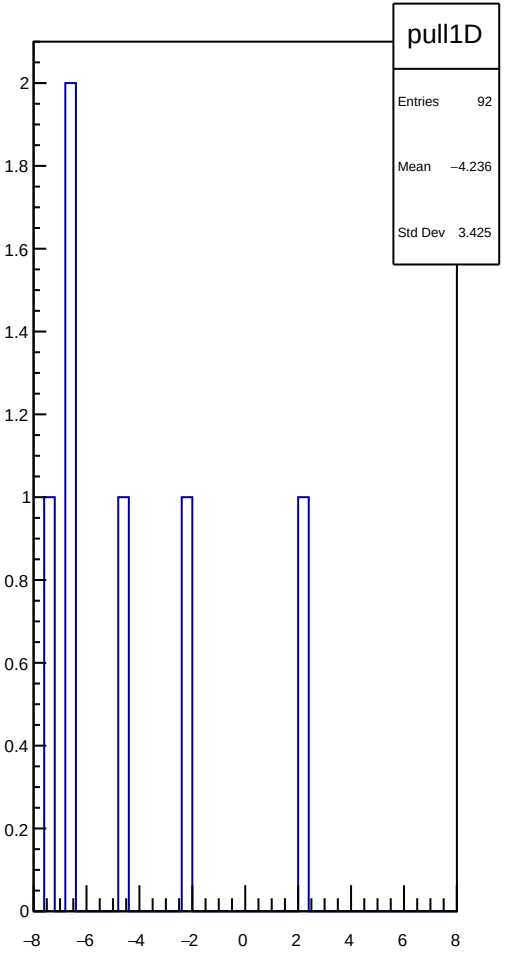

pull1D
Entries 92
Mean 1.899
Std Dev 4.503
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

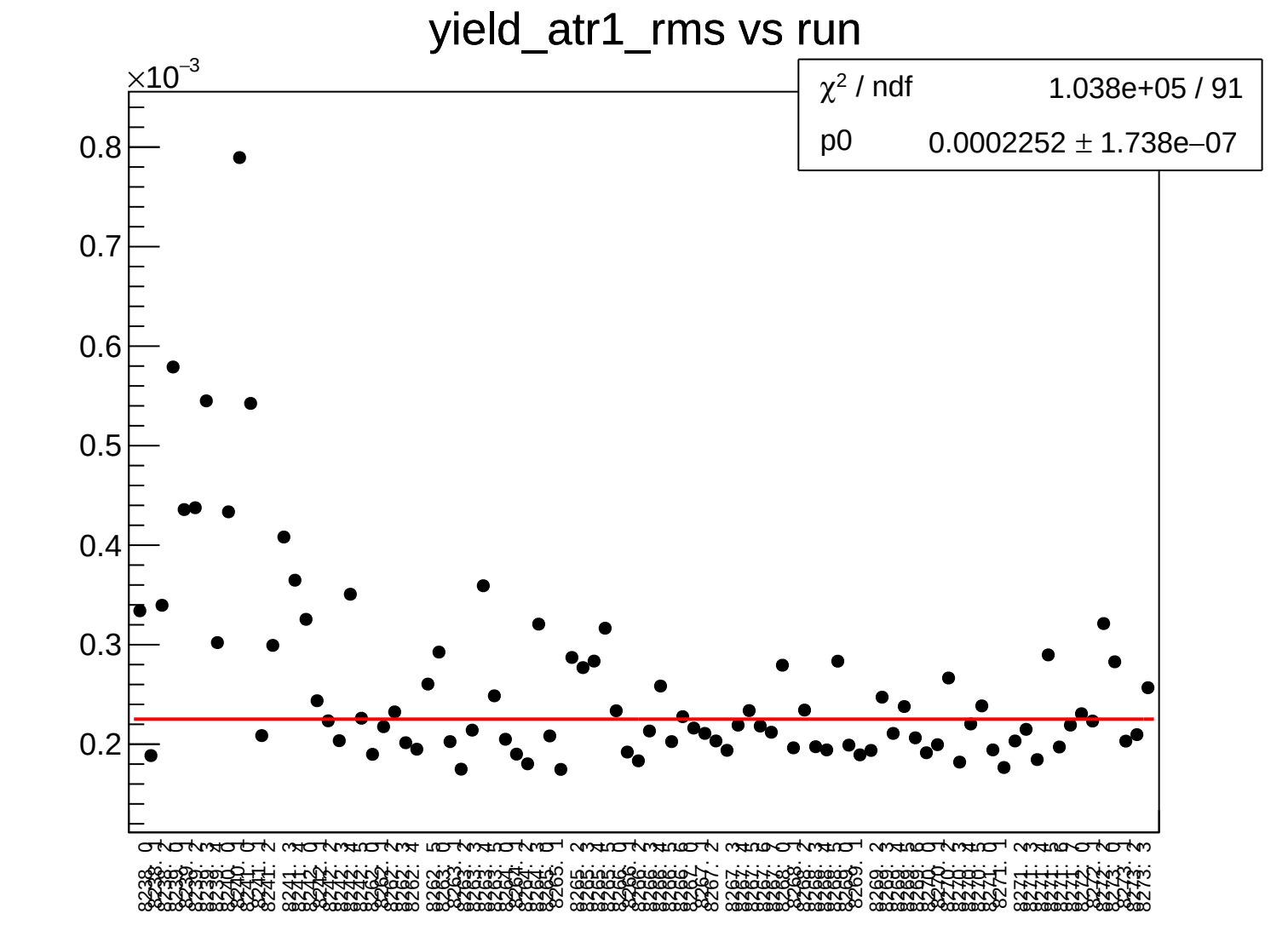

yield_atl1_rms vs run
×10⁻³
χ² / ndf 4.022e+04 / 91
p0 8.931e−05 ± 6.766e−08
0.2
0.18
0.16
0.14
0.12
0.1
0.08

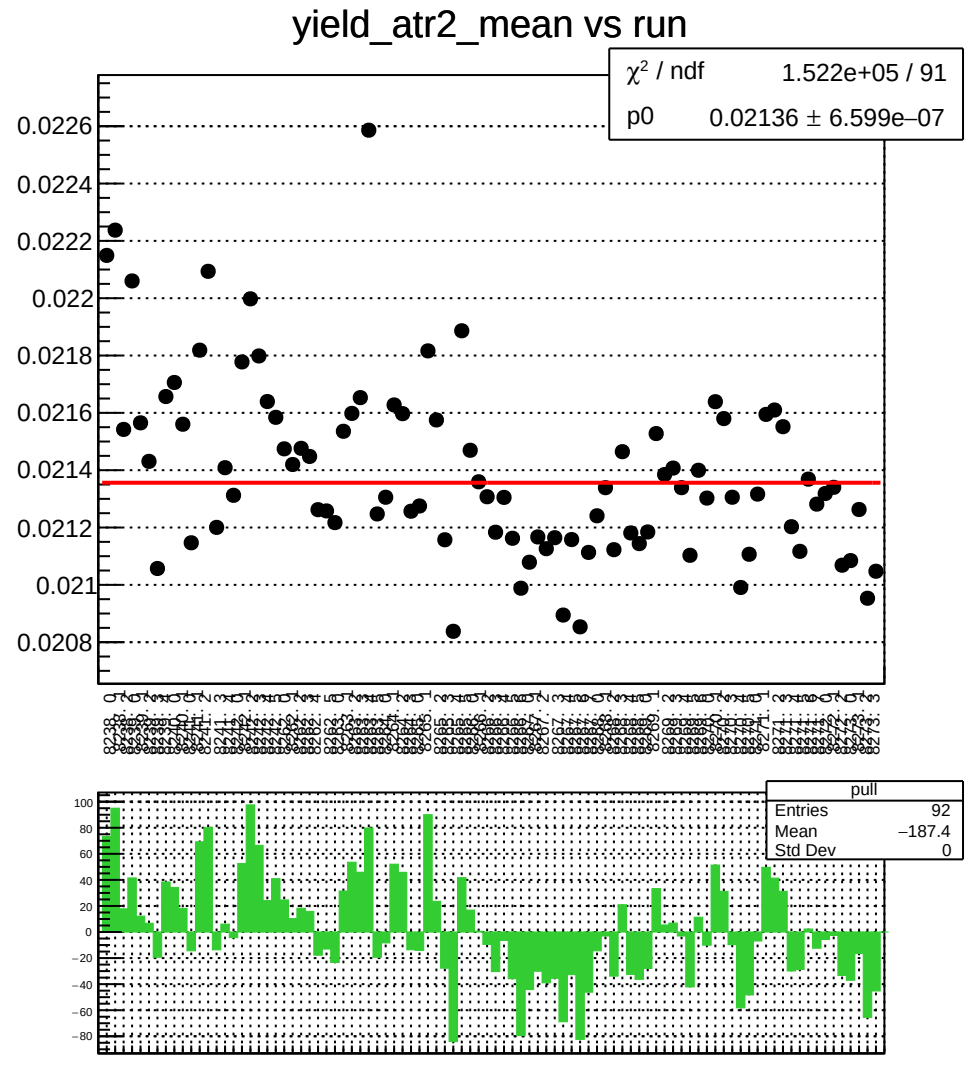

yield_atl2_mean vs run
χ² / ndf 3.385e+05 / 91
p0 0.03352 ± 7.204e−07
0.035
0.0345
0.034
0.0335
0.033
pull
Entries 92
Mean −226.4
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 92
Mean 0.4891
Std Dev 5.439
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

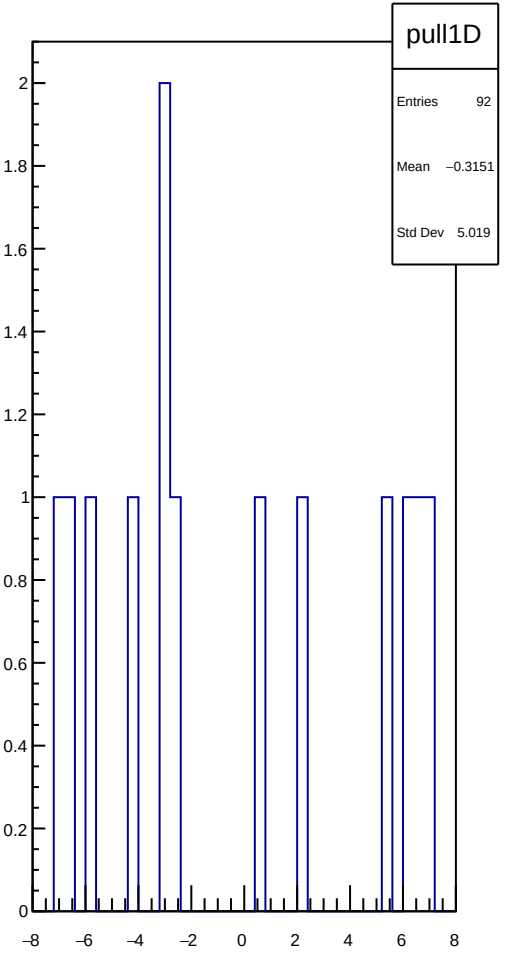

yield_atl2_rms vs run
χ² / ndf 1.284e+05 / 91
p0 0.0006552 ± 5.094e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

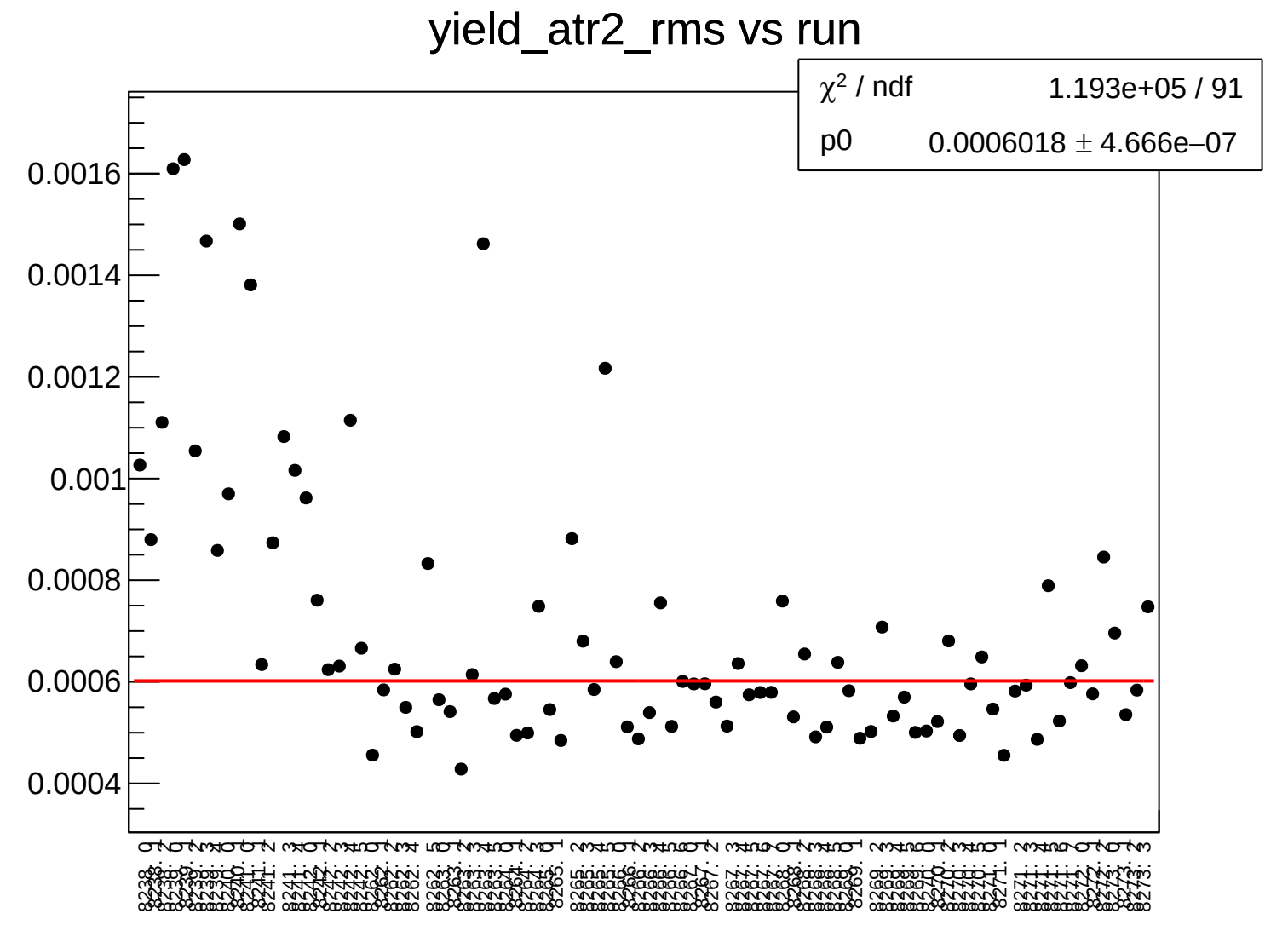

yield_atr1_mean vs run
χ² / ndf 4.877e+05 / 91
p0 0.04137 ± 2.458e−07
0.042
0.0418
0.0416
0.0414
0.0412
0.041
pull
Entries 92
Mean −543.6
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

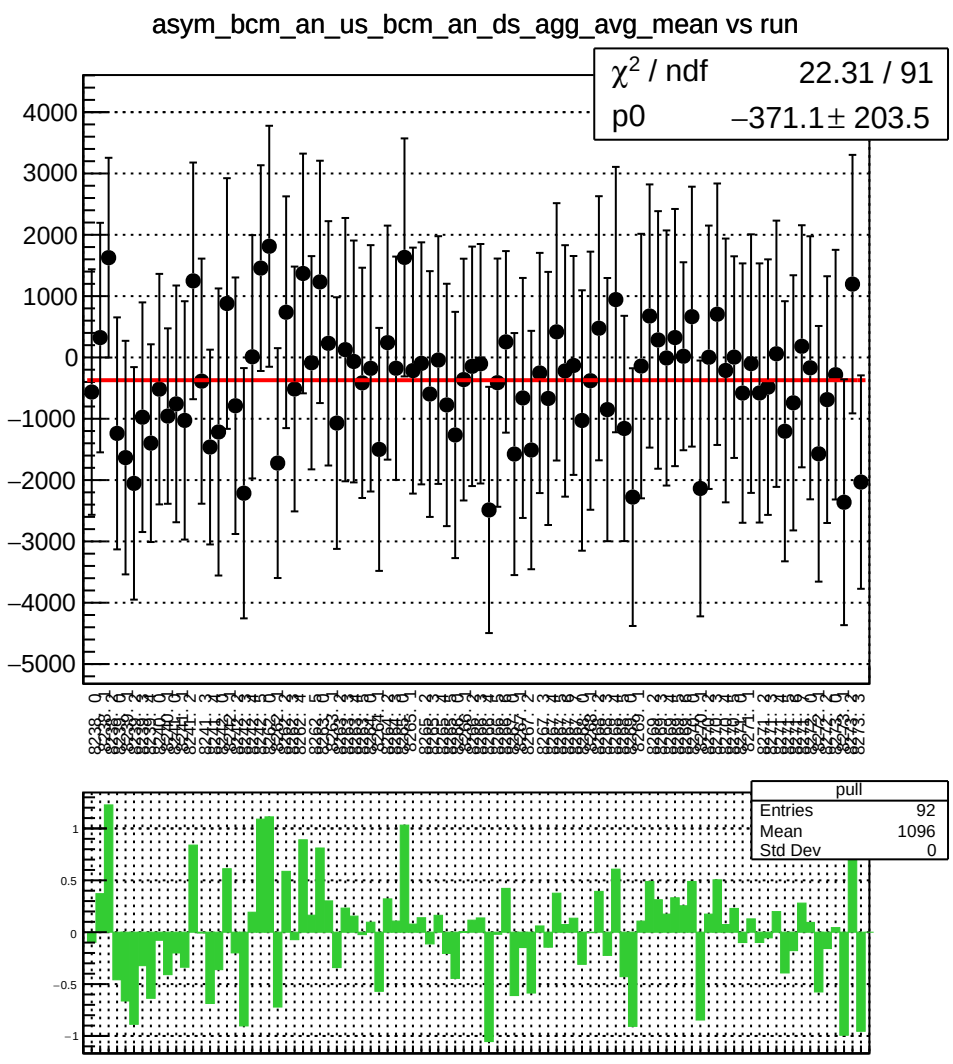

pull1D
Entries 92
Mean −4.236
Std Dev 3.425
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

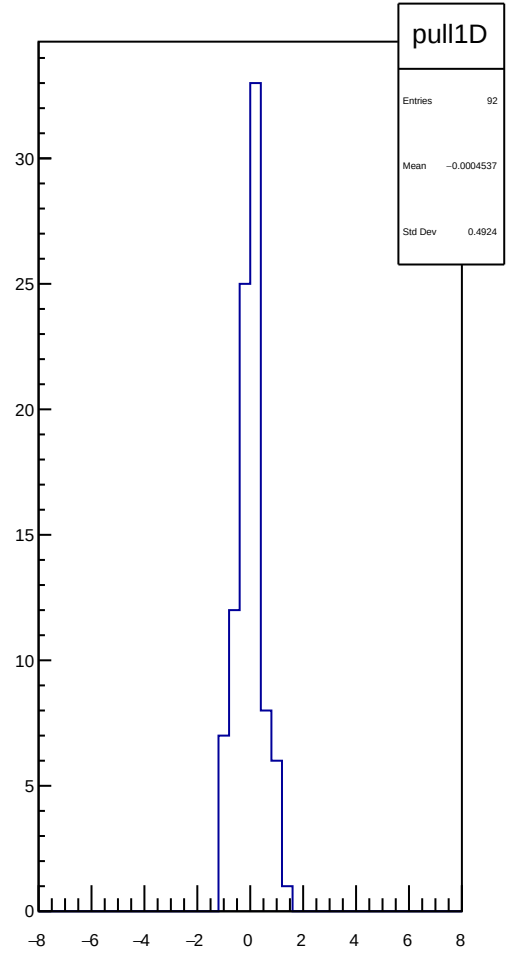

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.038e+05 / 91
p0 0.0002252 ± 1.738e−07
0.8
0.7
0.6
0.5
0.4
0.3
0.2

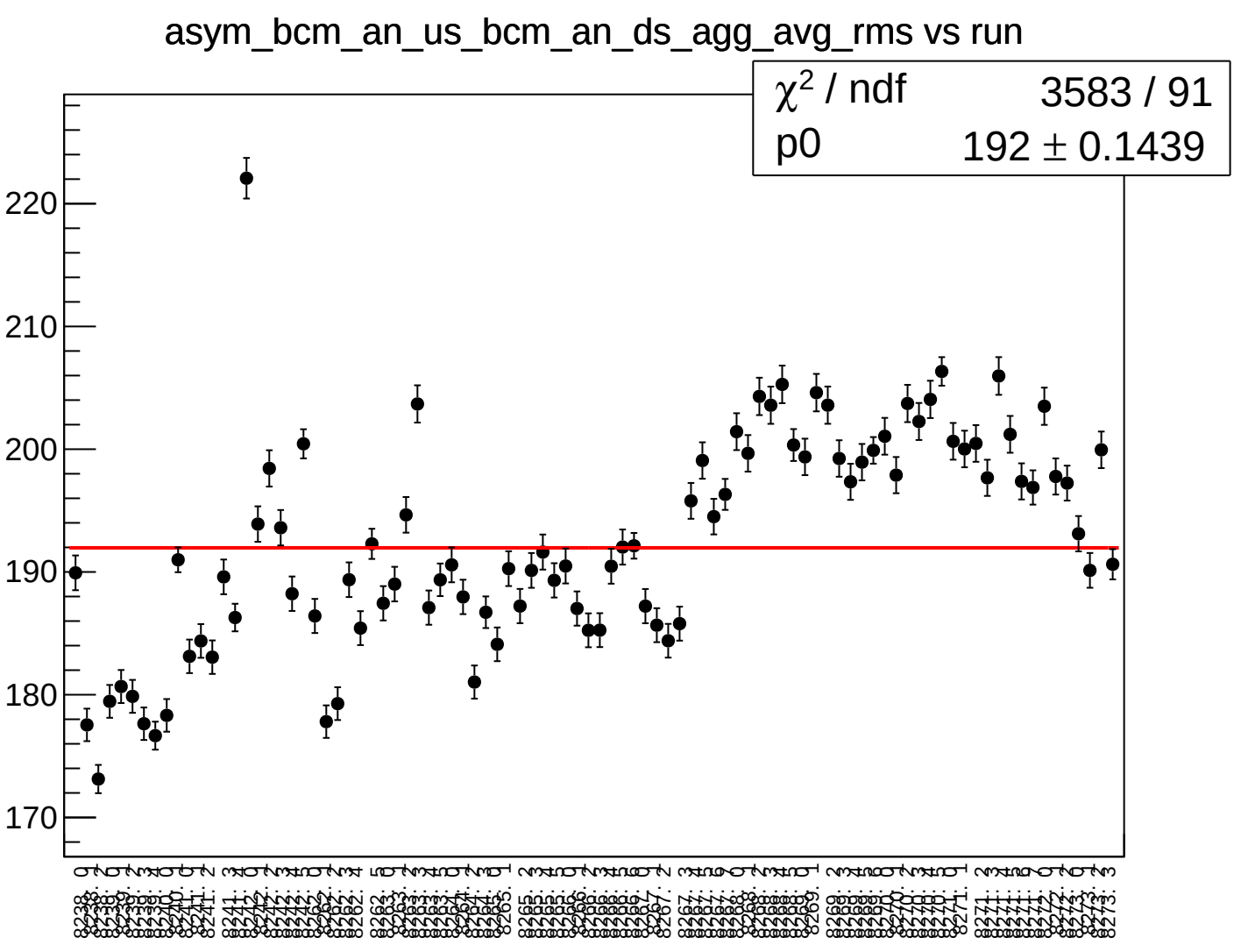

yield_atr2_mean vs run
χ² / ndf 1.522e+05 / 91
p0 0.02136 ± 6.599e−07
0.0226
0.0224
0.0222
0.022
0.0218
0.0216
0.0214
0.0212
0.021
0.0208
pull
Entries 92
Mean −187.4
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

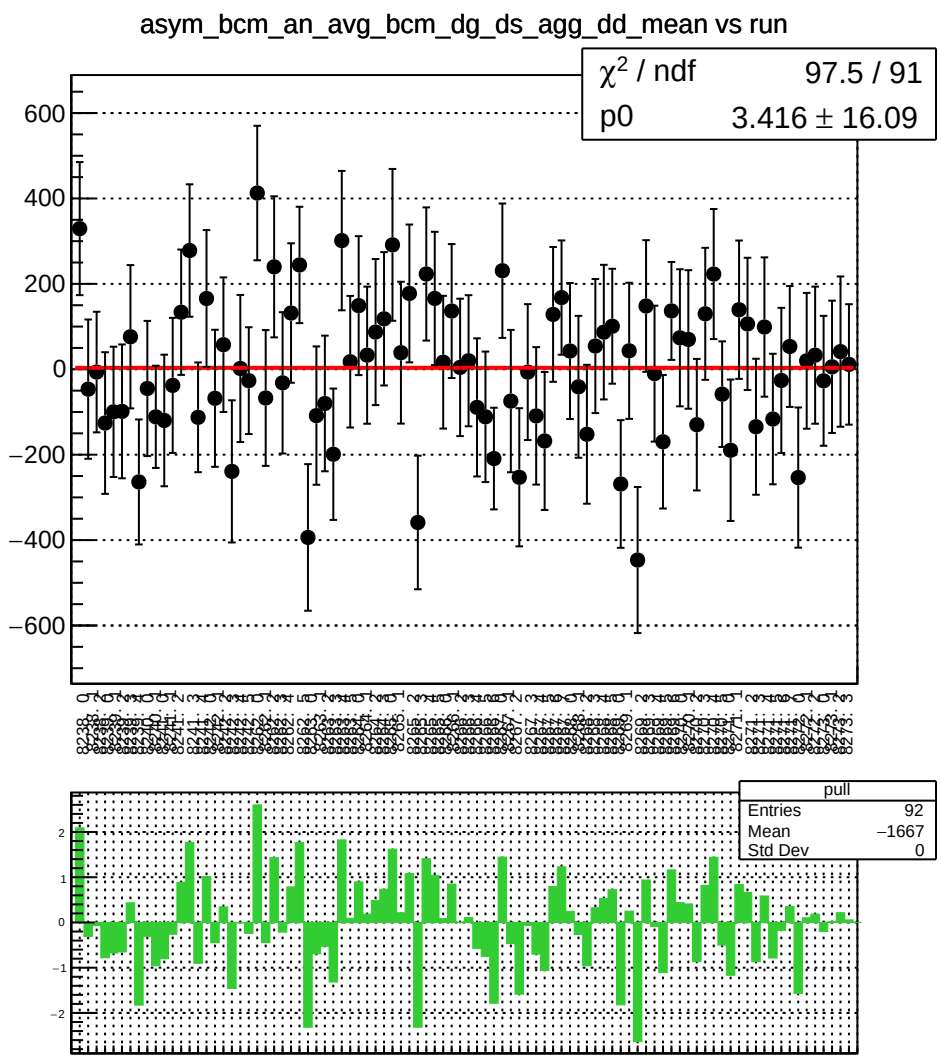

pull1D
Entries 92
Mean −0.3151
Std Dev 5.019
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

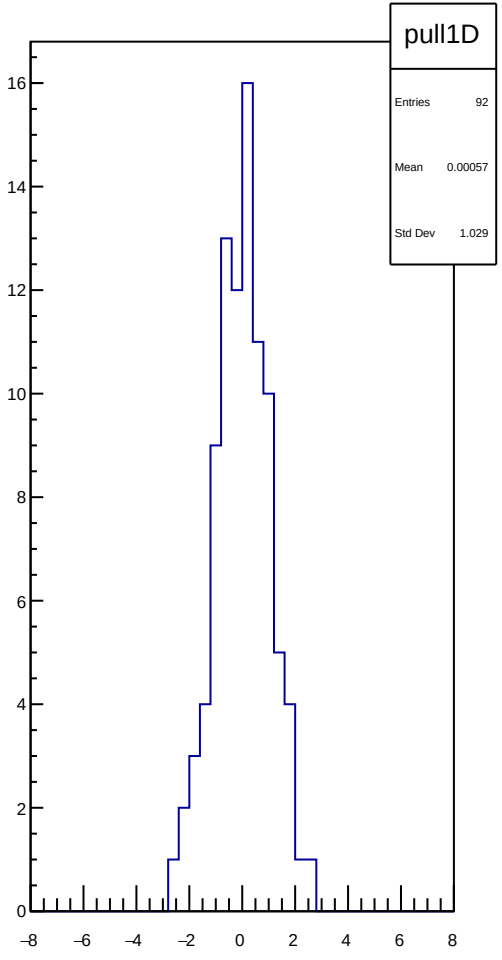

yield_atr2_rms vs run
χ² / ndf 1.193e+05 / 91
p0 0.0006018 ± 4.666e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

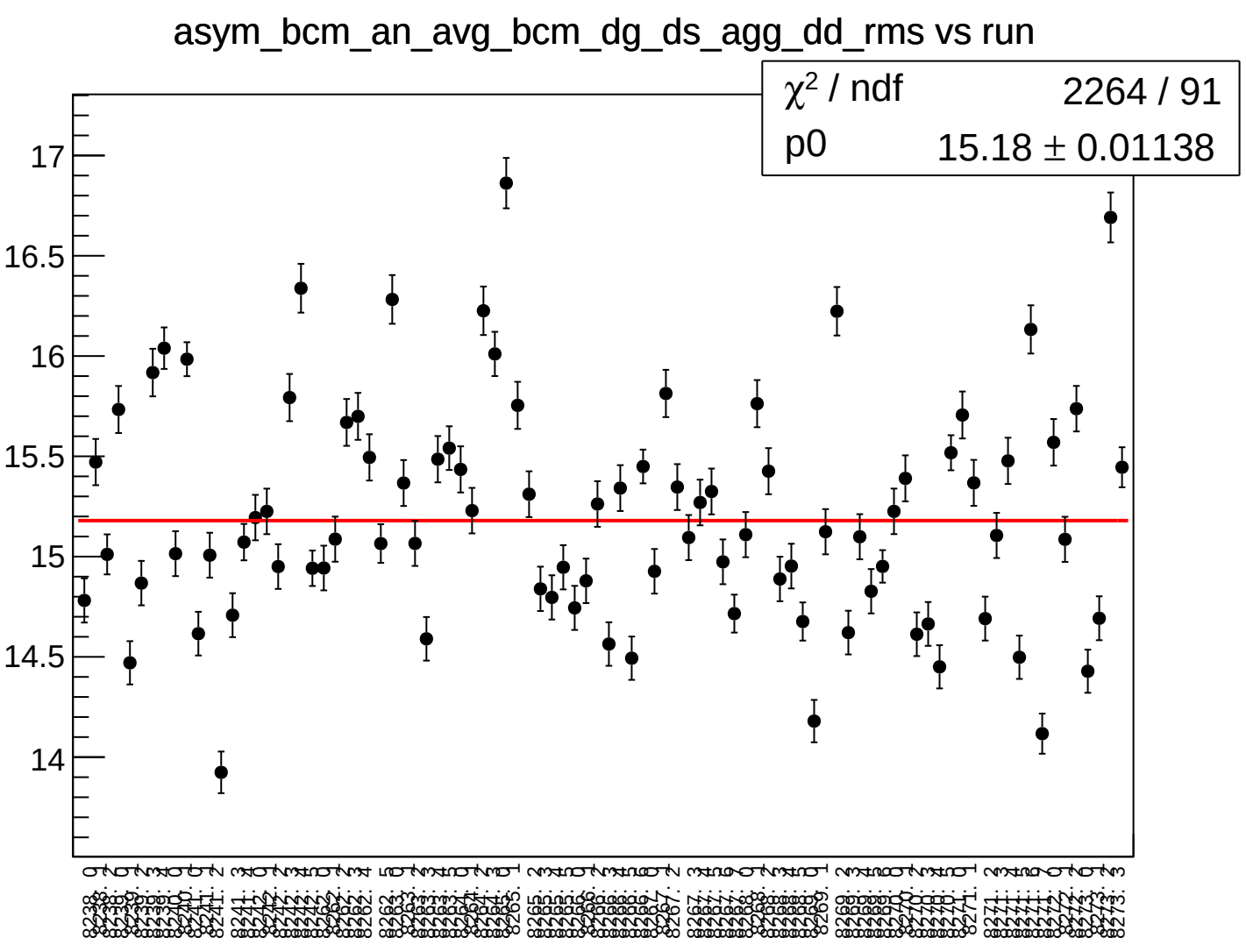

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 22.31 / 91
p0 −371.1± 203.5
pull
Entries 92
Mean 1096
Std Dev 0

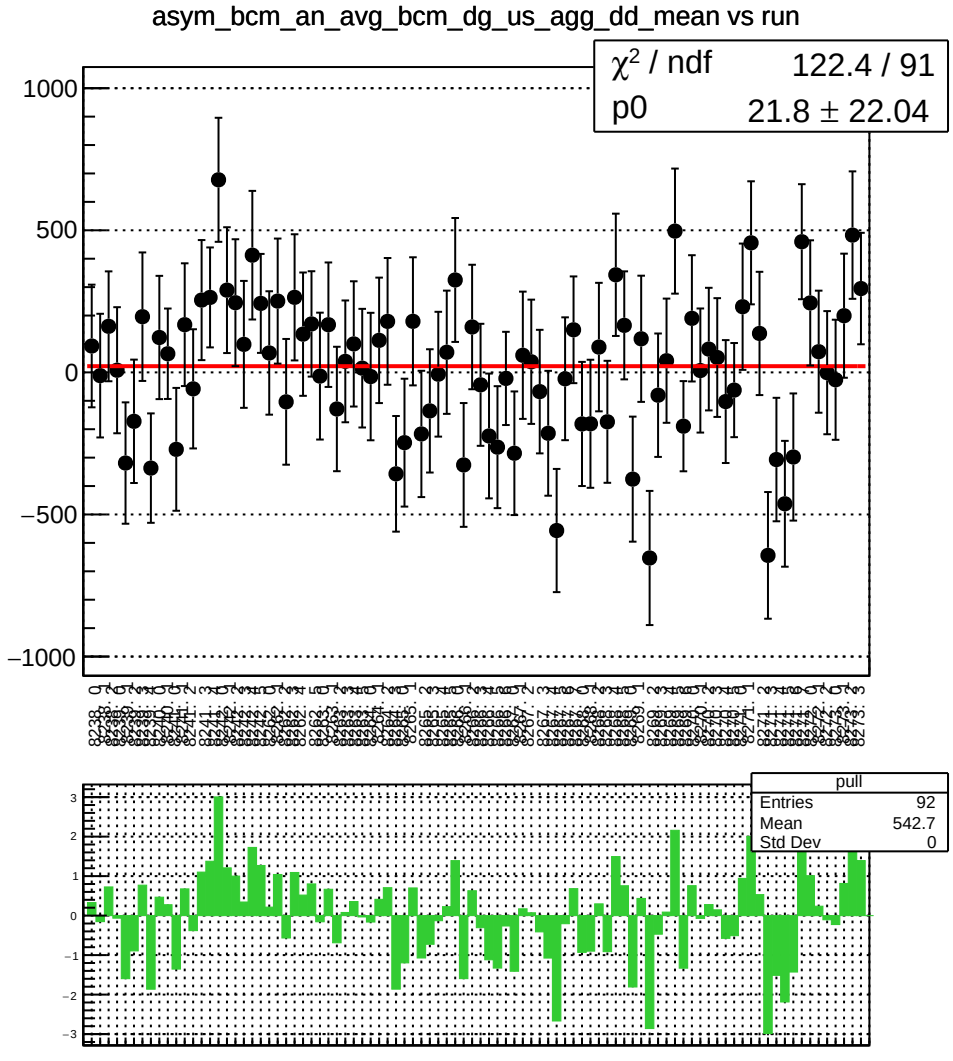

pull1D
Entries 92
Mean −0.0004537
Std Dev 0.4924

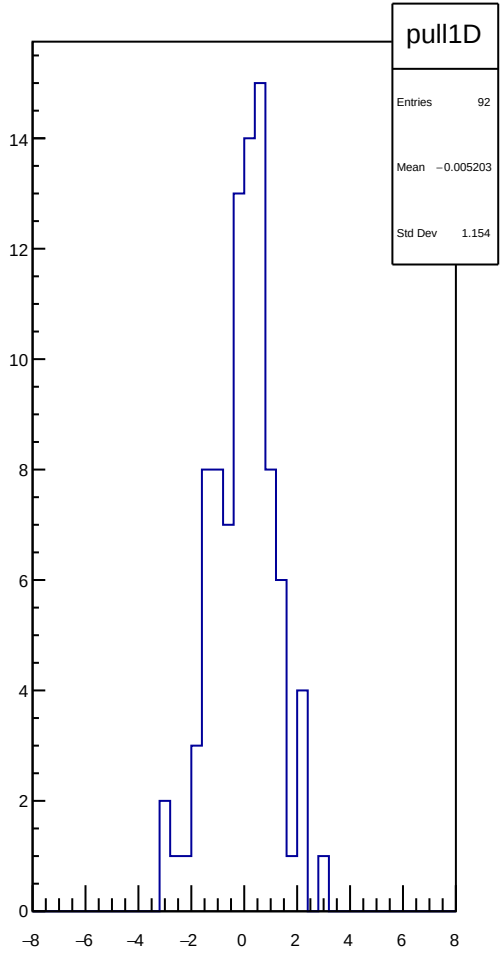

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3583 / 91
p0 192 ± 0.1439
220
210
200
190
180
170

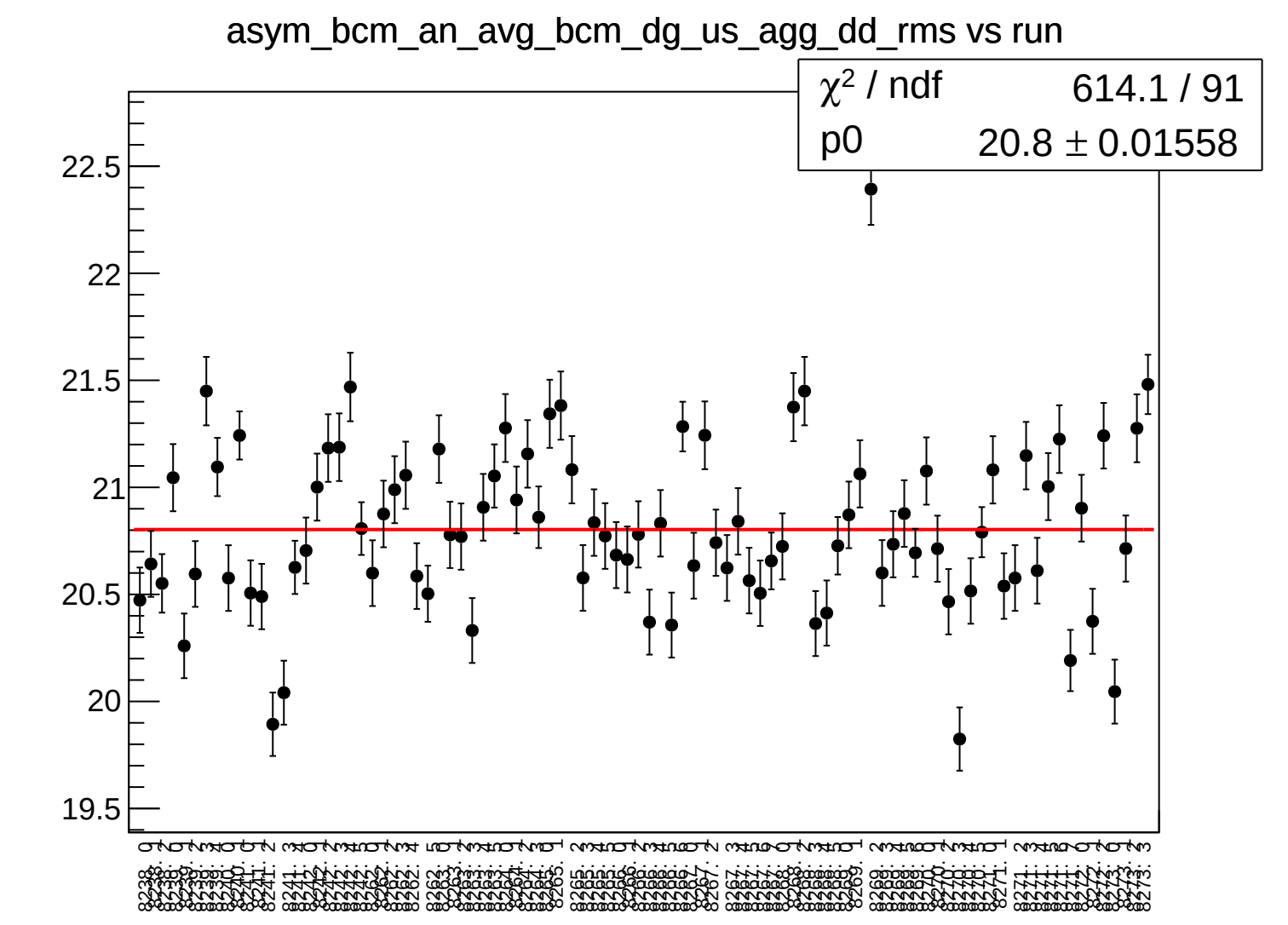

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 97.5 / 91
p0 3.416 ± 16.09
pull
Entries 92
Mean −1667
Std Dev 0

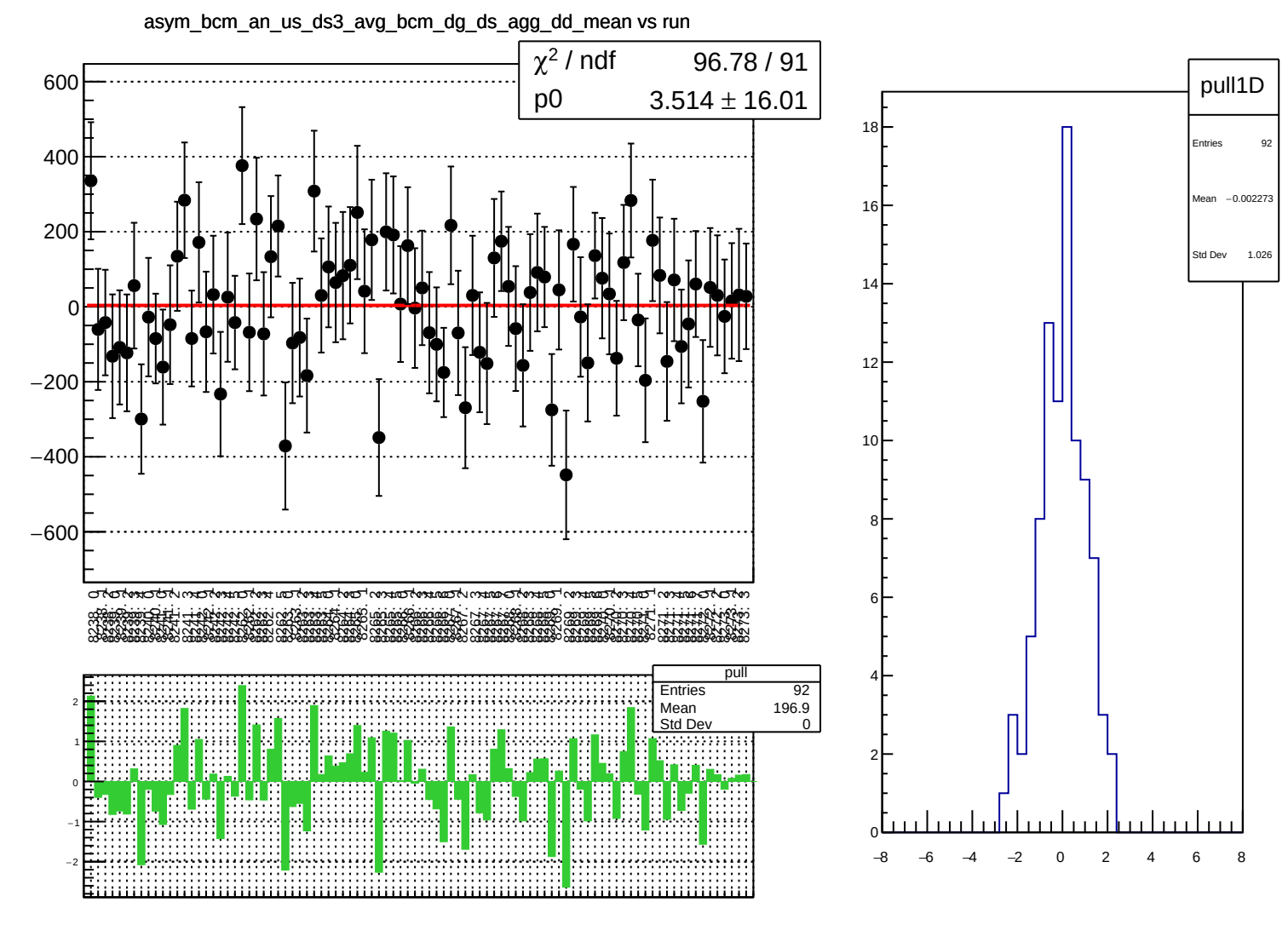

pull1D
Entries 92
Mean 0.00057
Std Dev 1.029

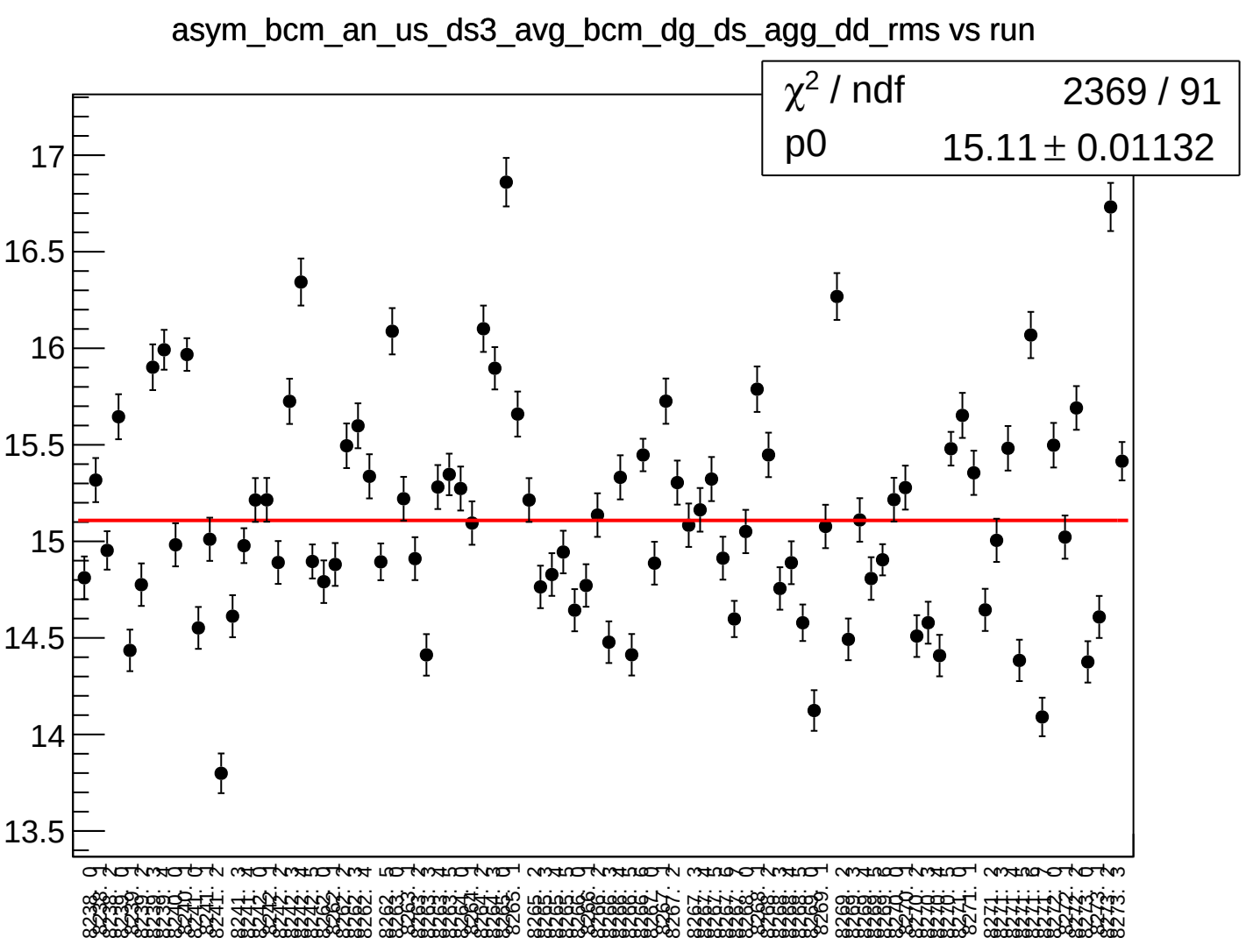

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2264 / 91
p0 15.18 ± 0.01138
17
16.5
16
15.5
15
14.5
14

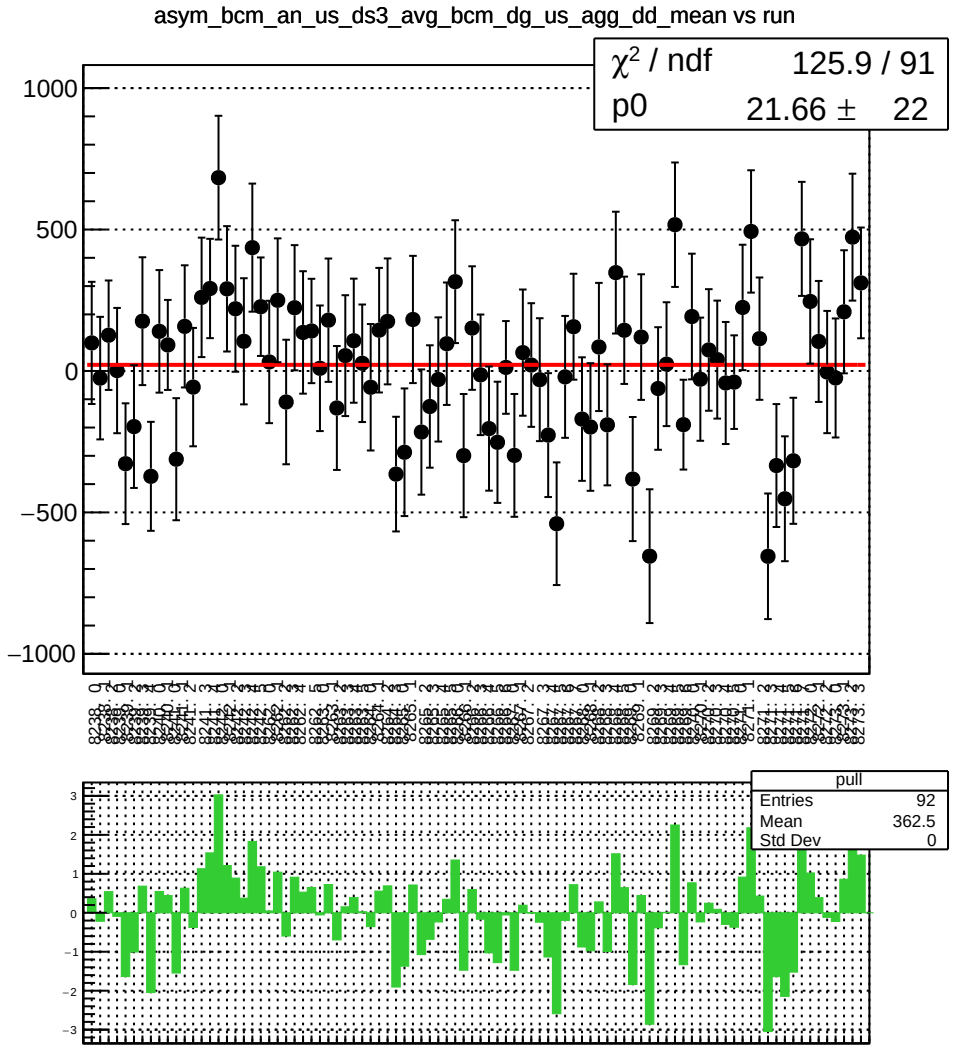

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 122.4 / 91
p0 21.8 ± 22.04
1000
500
0
−500
−1000
pull
Entries 92
Mean 542.7
Std Dev 0
3
2
1
0
−1
−2
−3

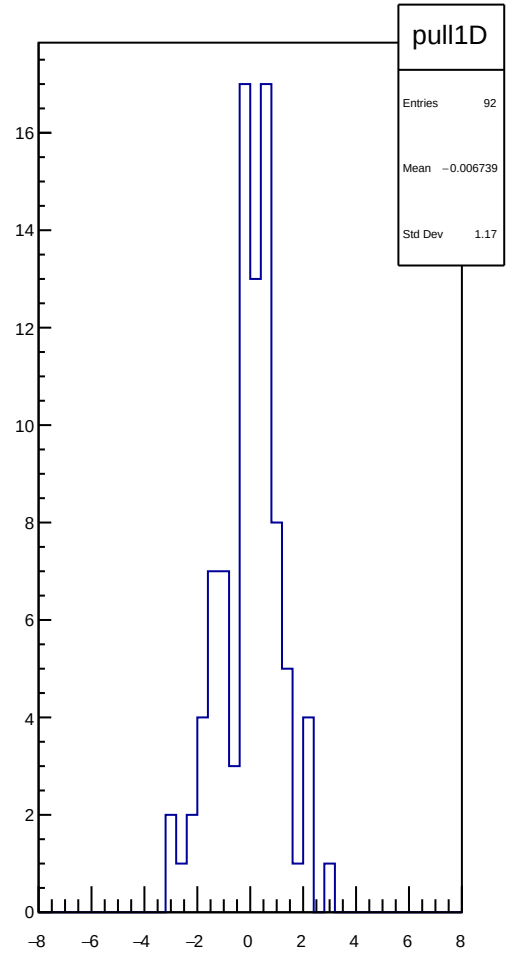

pull1D
Entries 92
Mean −0.005203
Std Dev 1.154
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

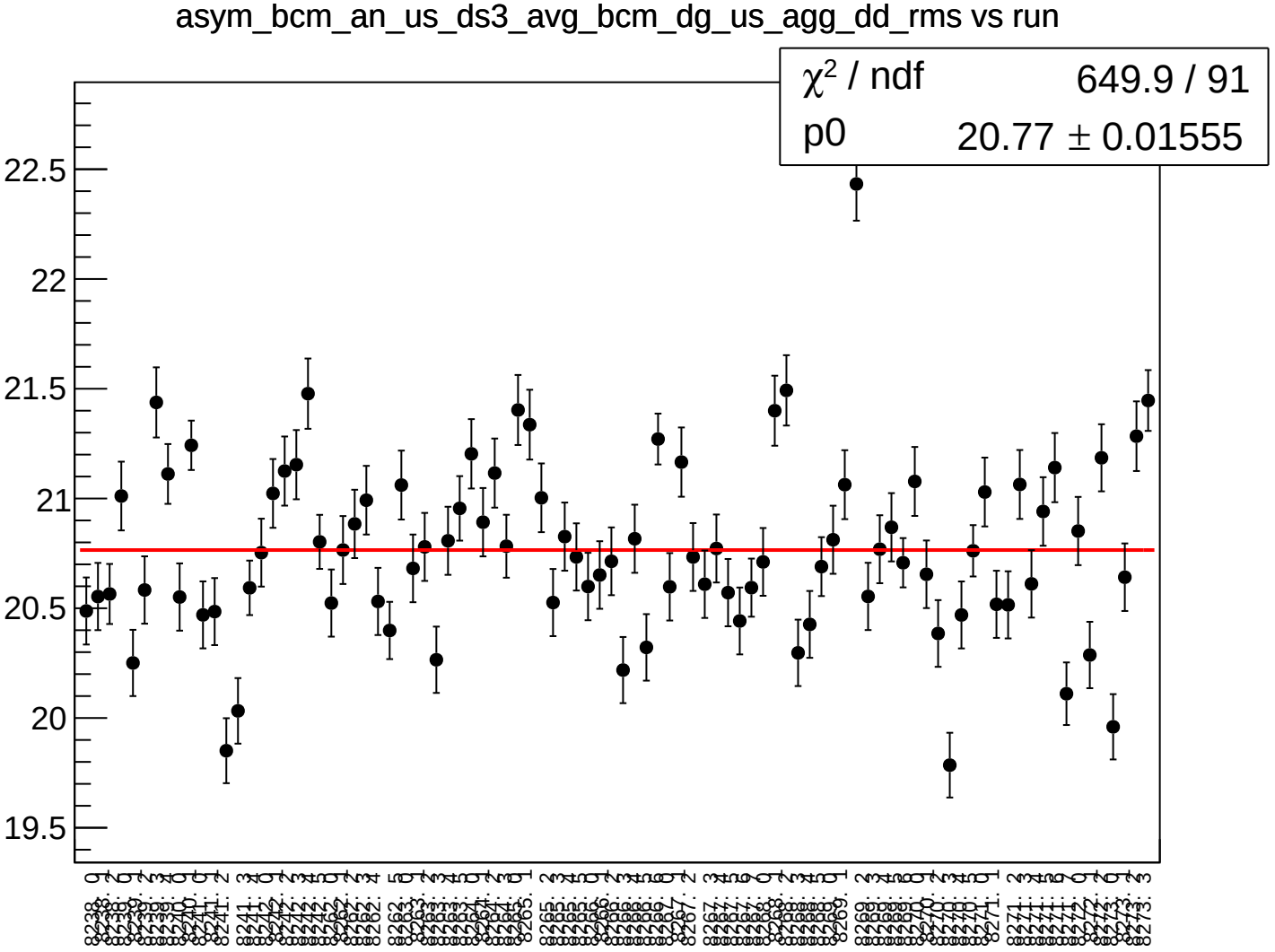

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 614.1 / 91
p0 20.8 ± 0.01558
22.5
22
21.5
21
20.5
20
19.5

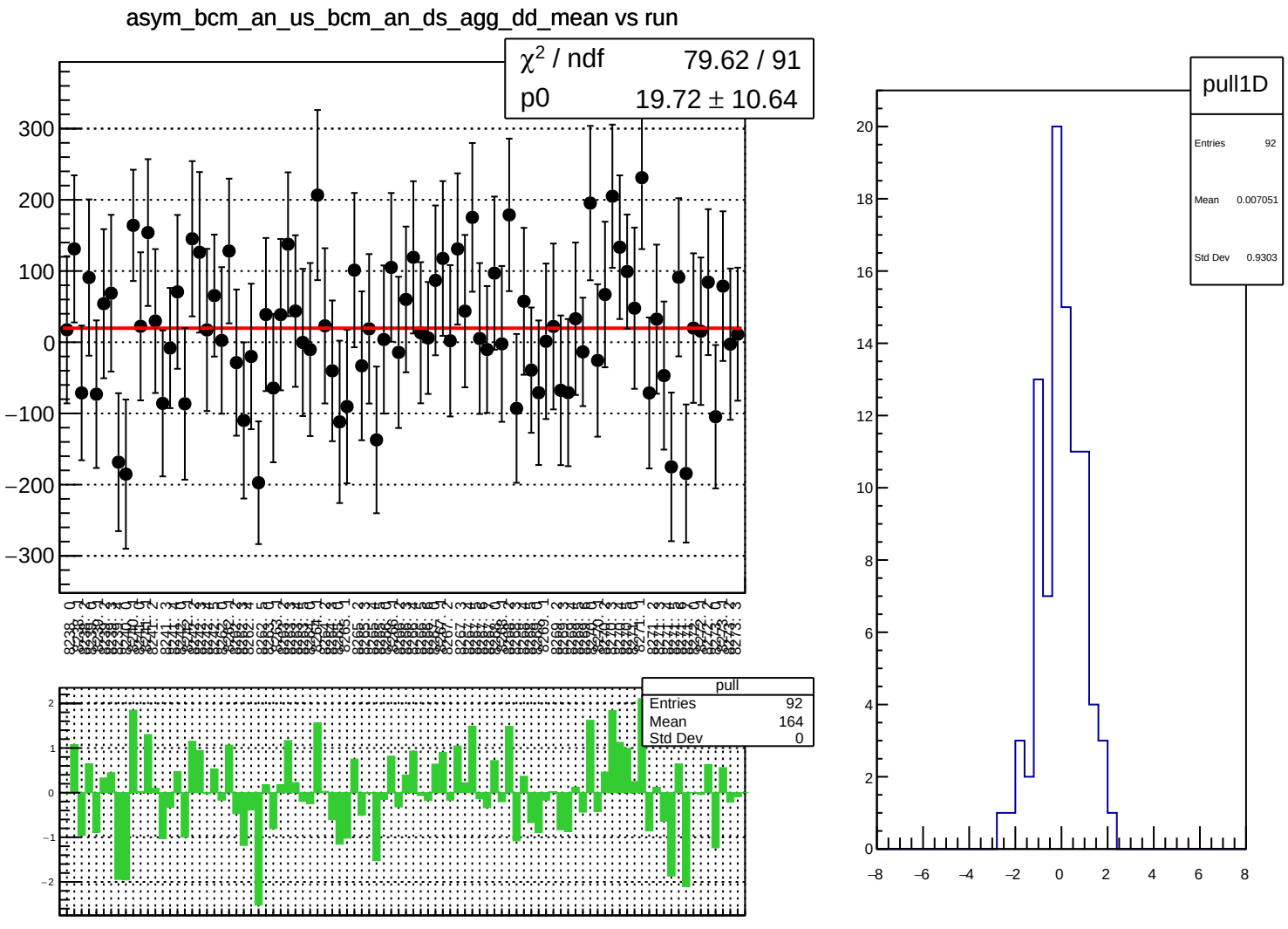

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 96.78 / 91
p0 3.514 ± 16.01
pull
Entries 92
Mean 196.9
Std Dev 0
pull1D
Entries 92
Mean −0.002273
Std Dev 1.026

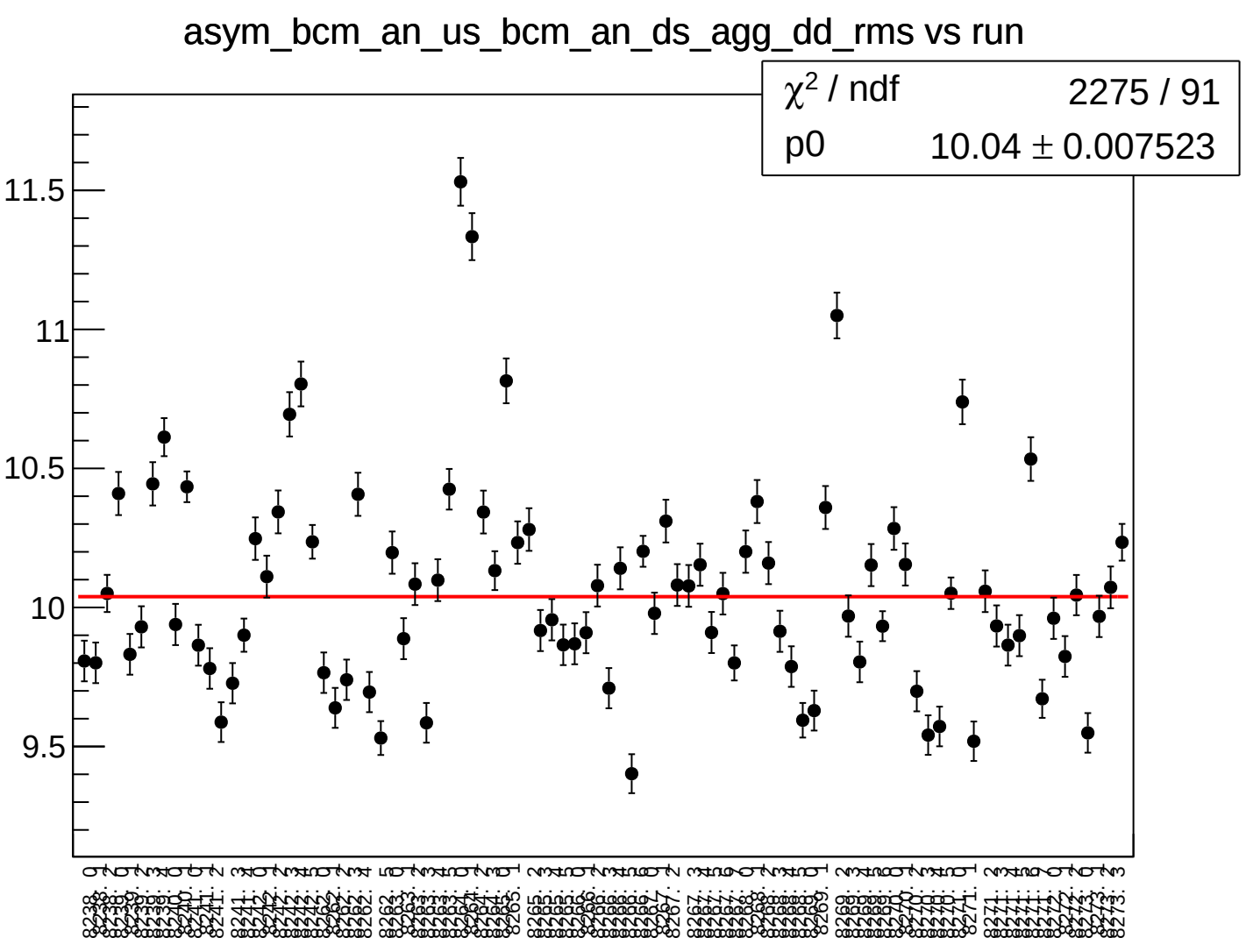

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2369 / 91
p0 15.11 ± 0.01132
17
16.5
16
15.5
15
14.5
14
13.5

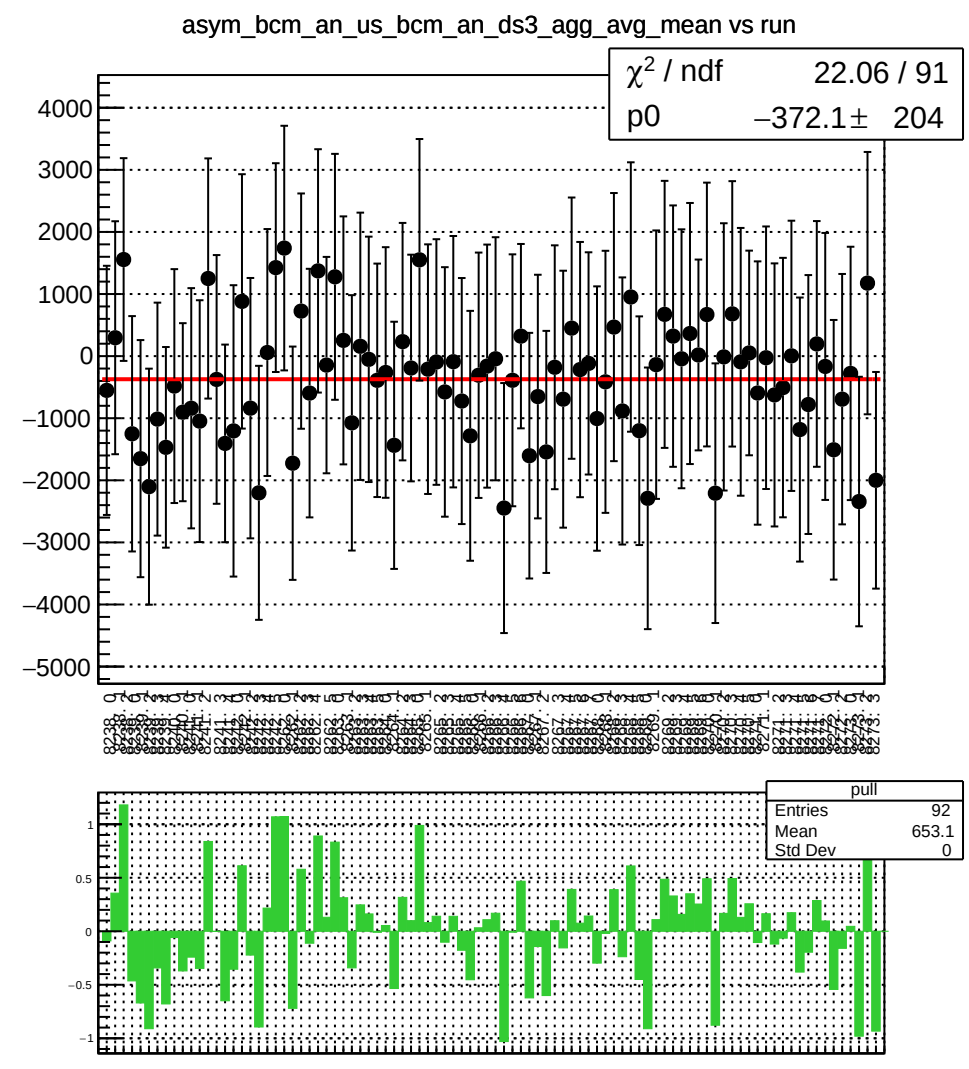

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 125.9 / 91
p0 21.66 ± 22
1000
500
0
−500
−1000
pull
Entries 92
Mean 362.5
Std Dev 0
3
2
1
0
−1
−2
−3

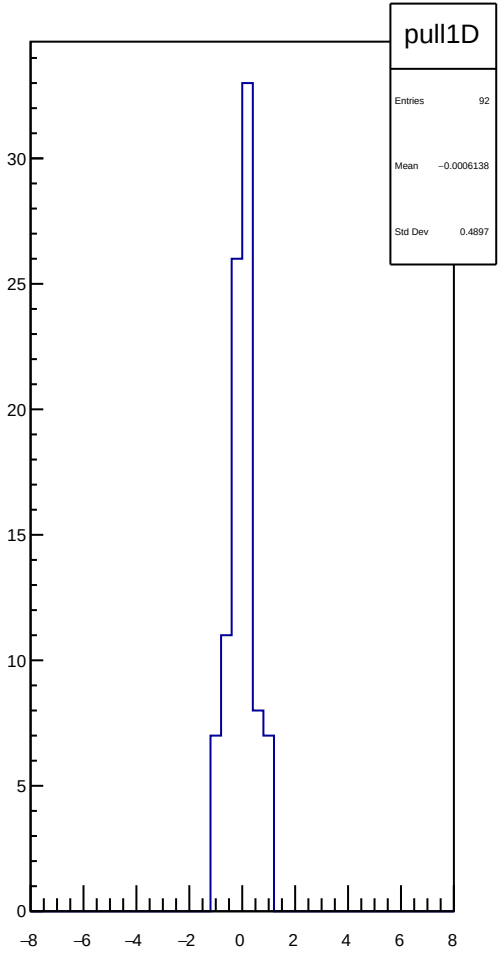

pull1D
Entries 92
Mean −0.006739
Std Dev 1.17
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

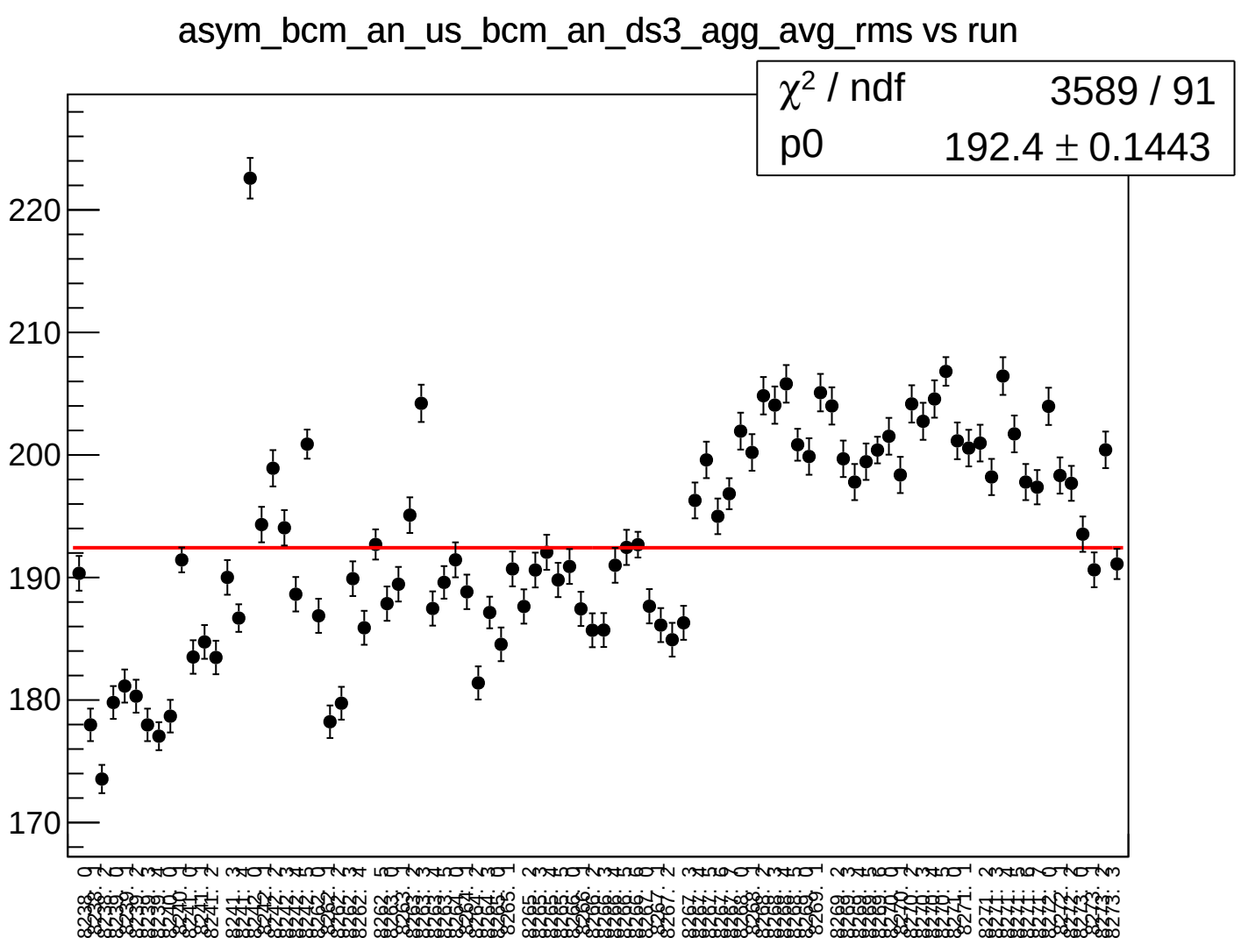

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 649.9 / 91
p0 20.77 ± 0.01555
22.5
22
21.5
21
20.5
20
19.5

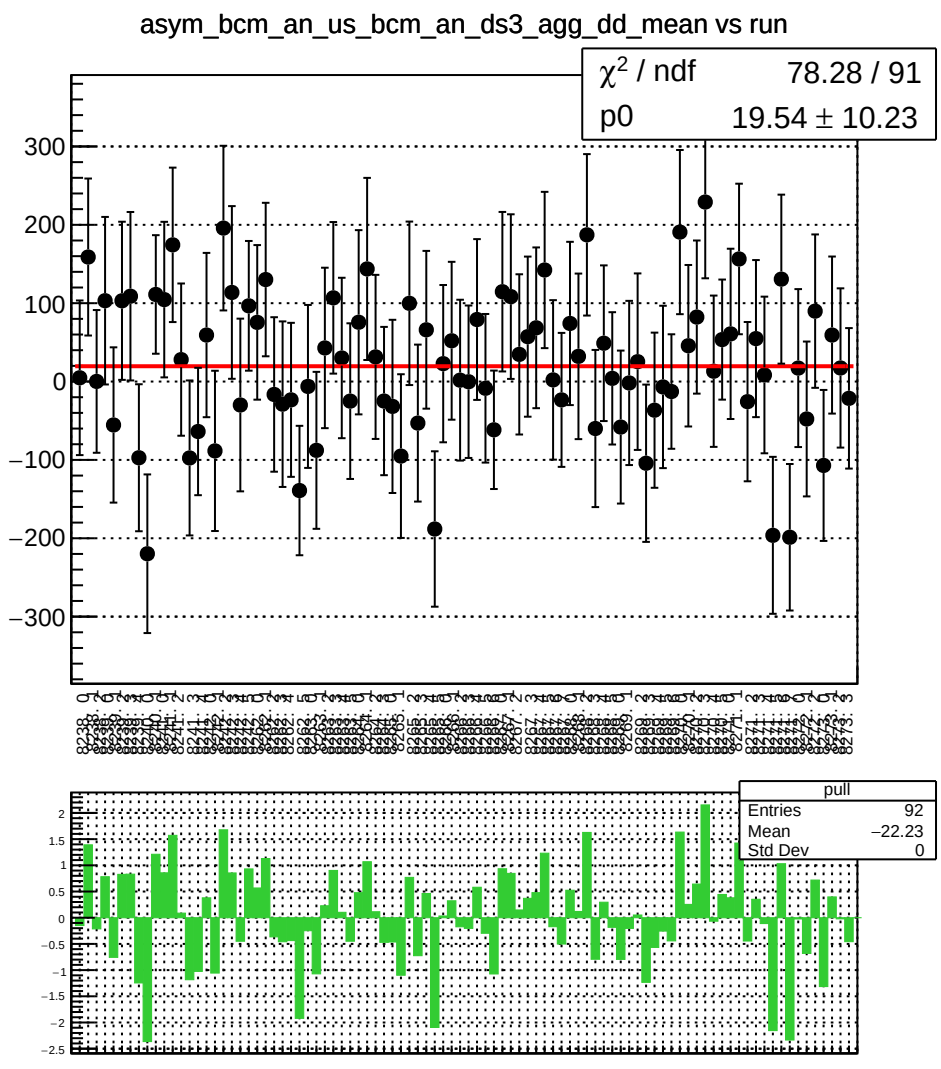

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 79.62 / 91
p0 19.72 ± 10.64
pull
Entries 92
Mean 164
Std Dev 0
pull1D
Entries 92
Mean 0.007051
Std Dev 0.9303

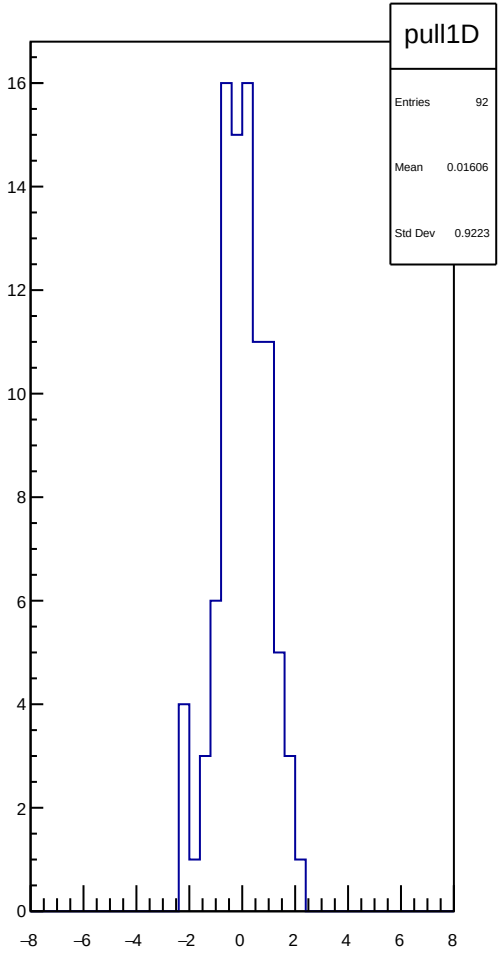

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2275 / 91
p0 10.04 ± 0.007523
11.5
11
10.5
10
9.5

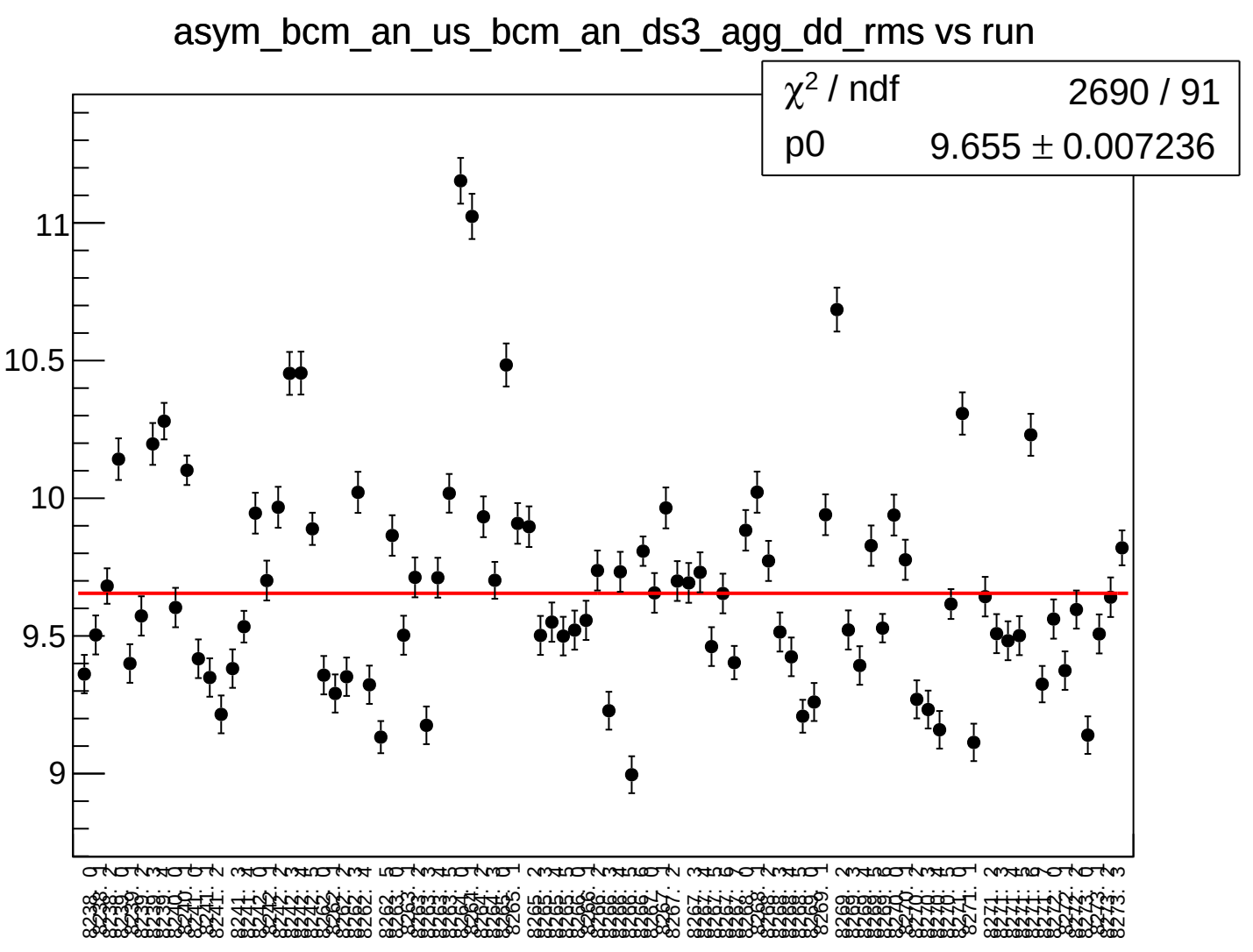

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 22.06 / 91
p0 −372.1± 204
pull
Entries 92
Mean 653.1
Std Dev 0

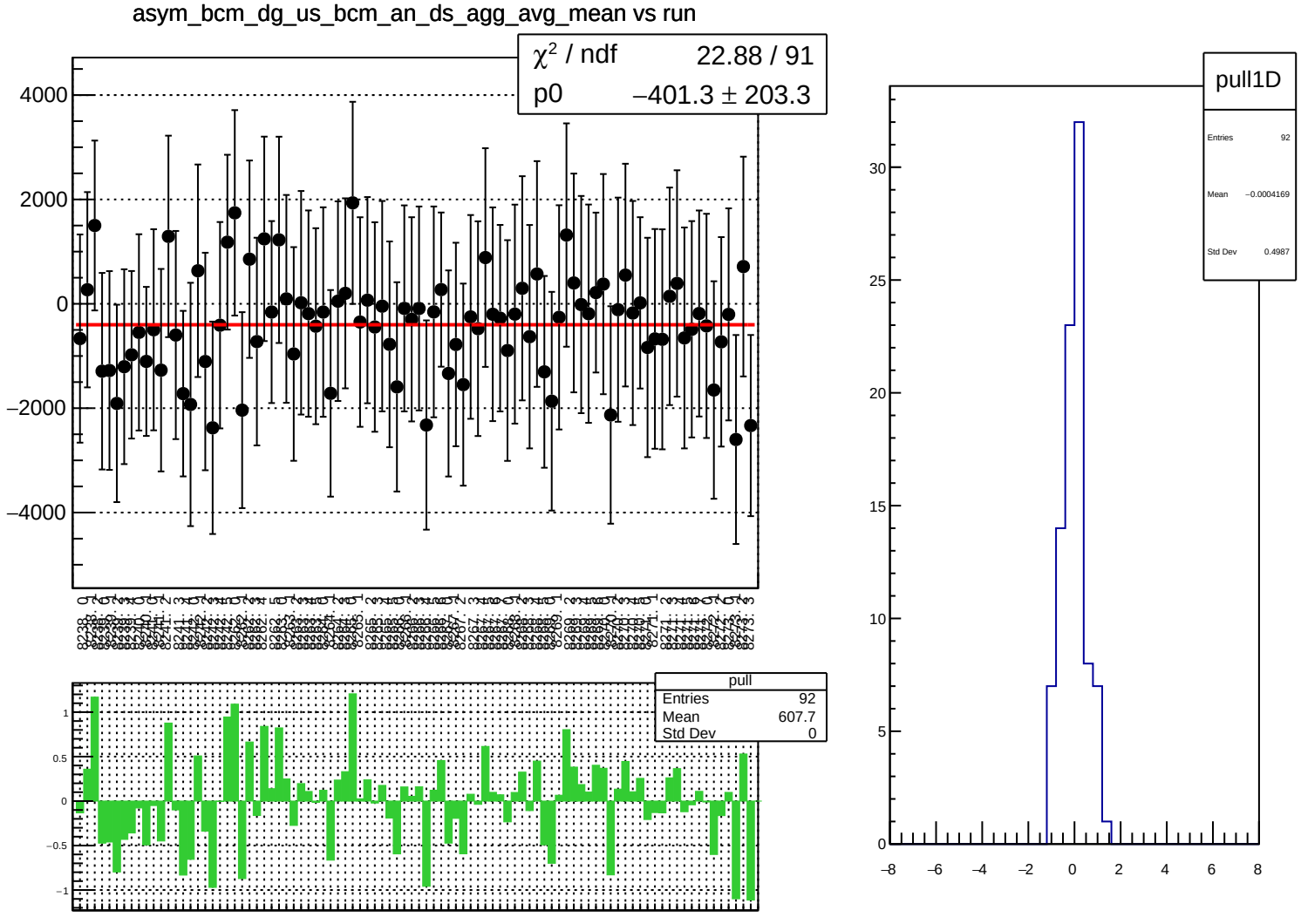

pull1D
Entries 92
Mean −0.0006138
Std Dev 0.4897

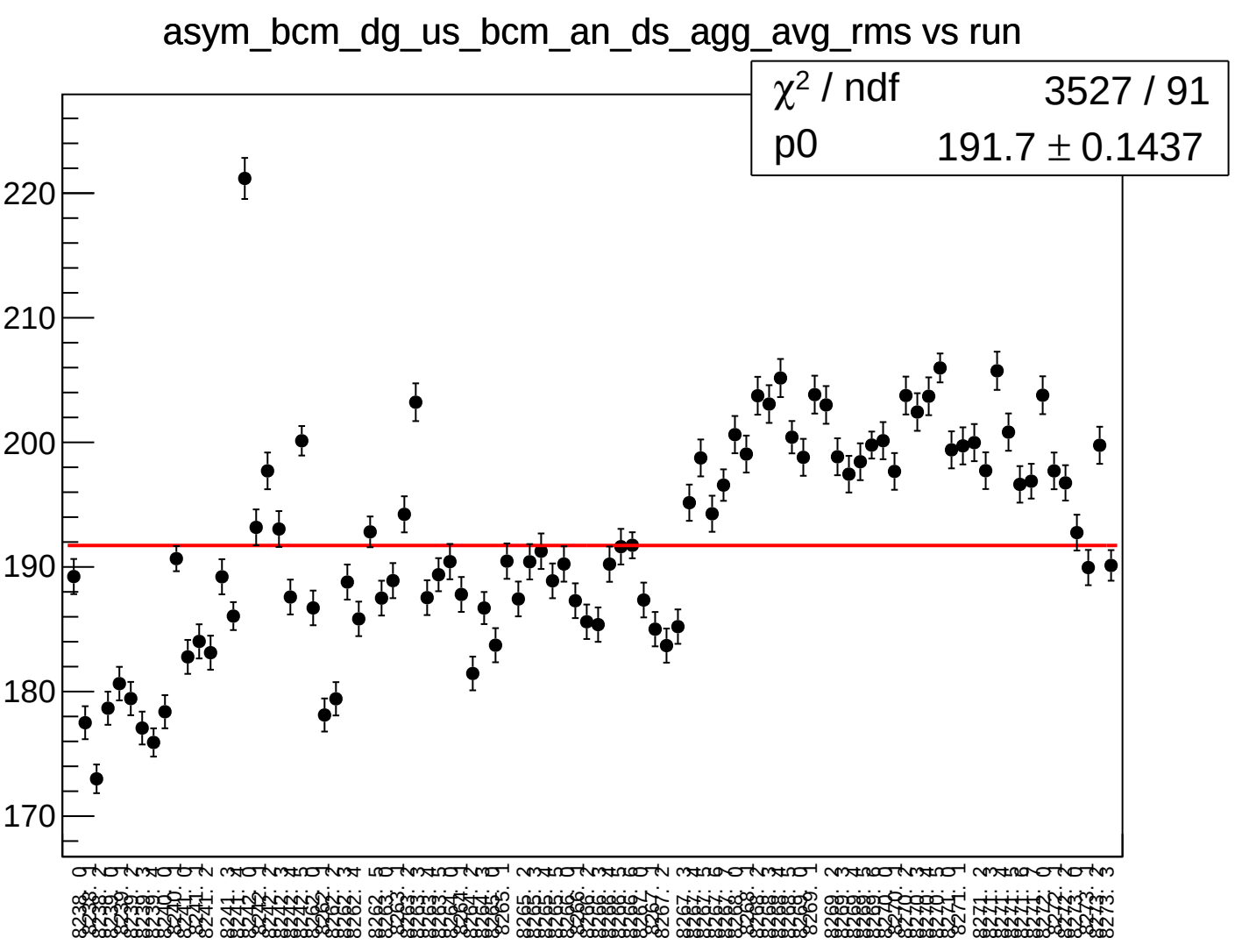

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 3589 / 91
p0 192.4 ± 0.1443
220
210
200
190
180
170

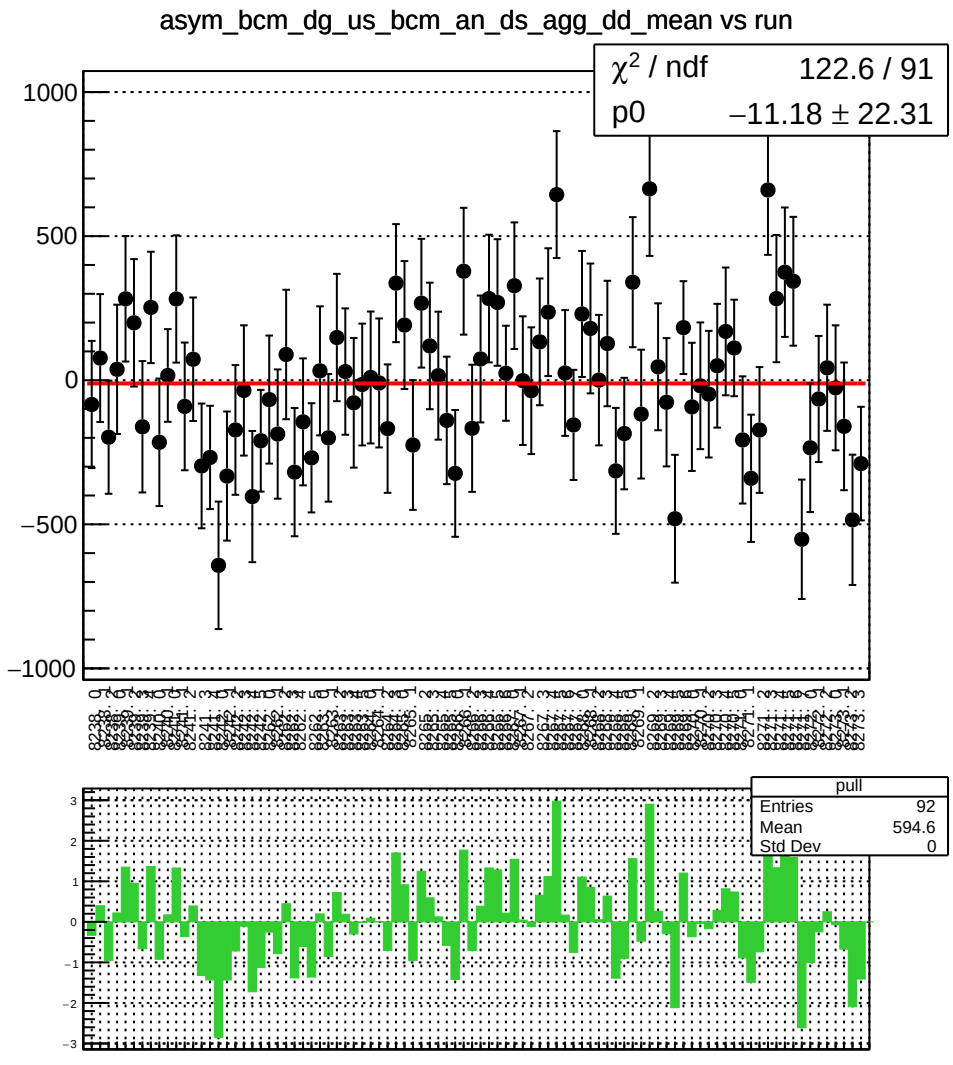

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 78.28 / 91
p0 19.54 ± 10.23
pull
Entries 92
Mean −22.23
Std Dev 0

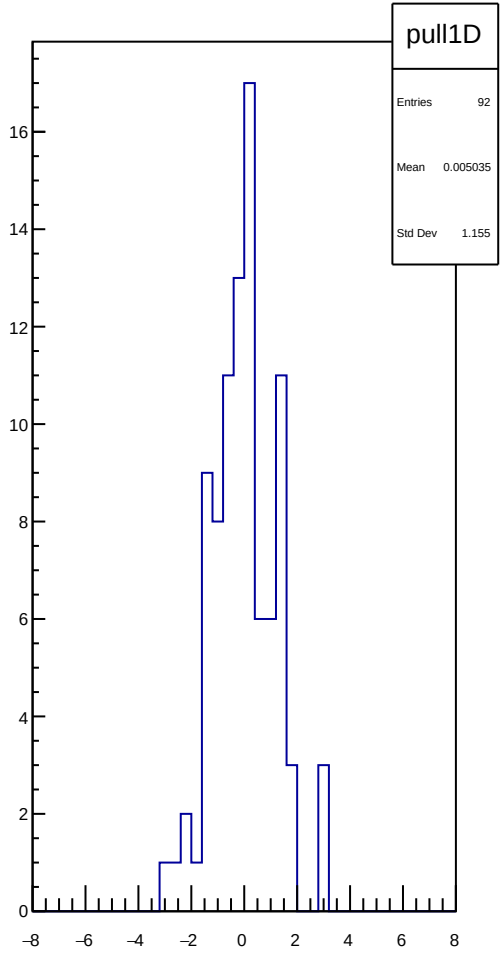

pull1D
Entries 92
Mean 0.01606
Std Dev 0.9223

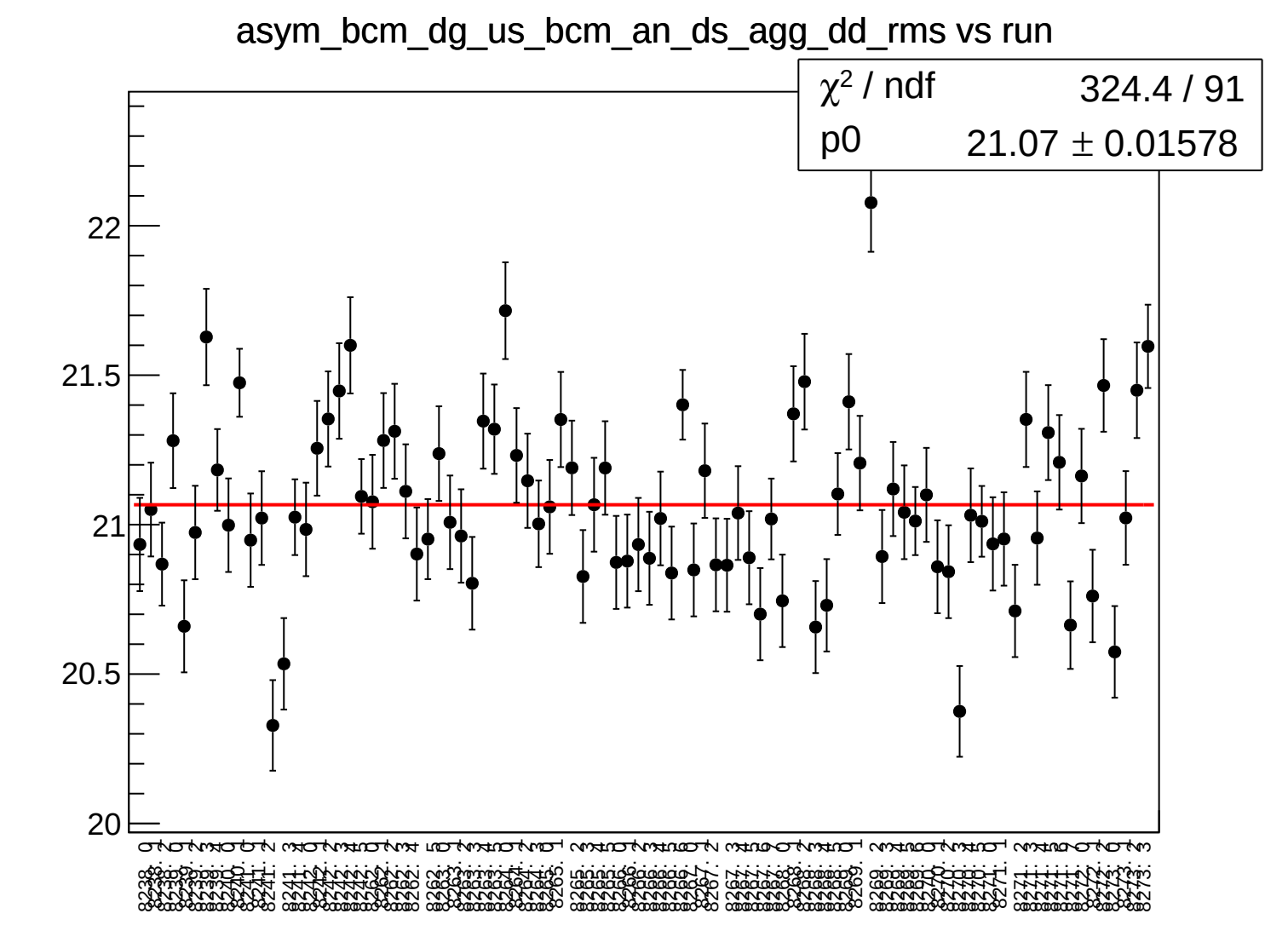

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2690 / 91
p0 9.655 ± 0.007236
11
10.5
10
9.5
9

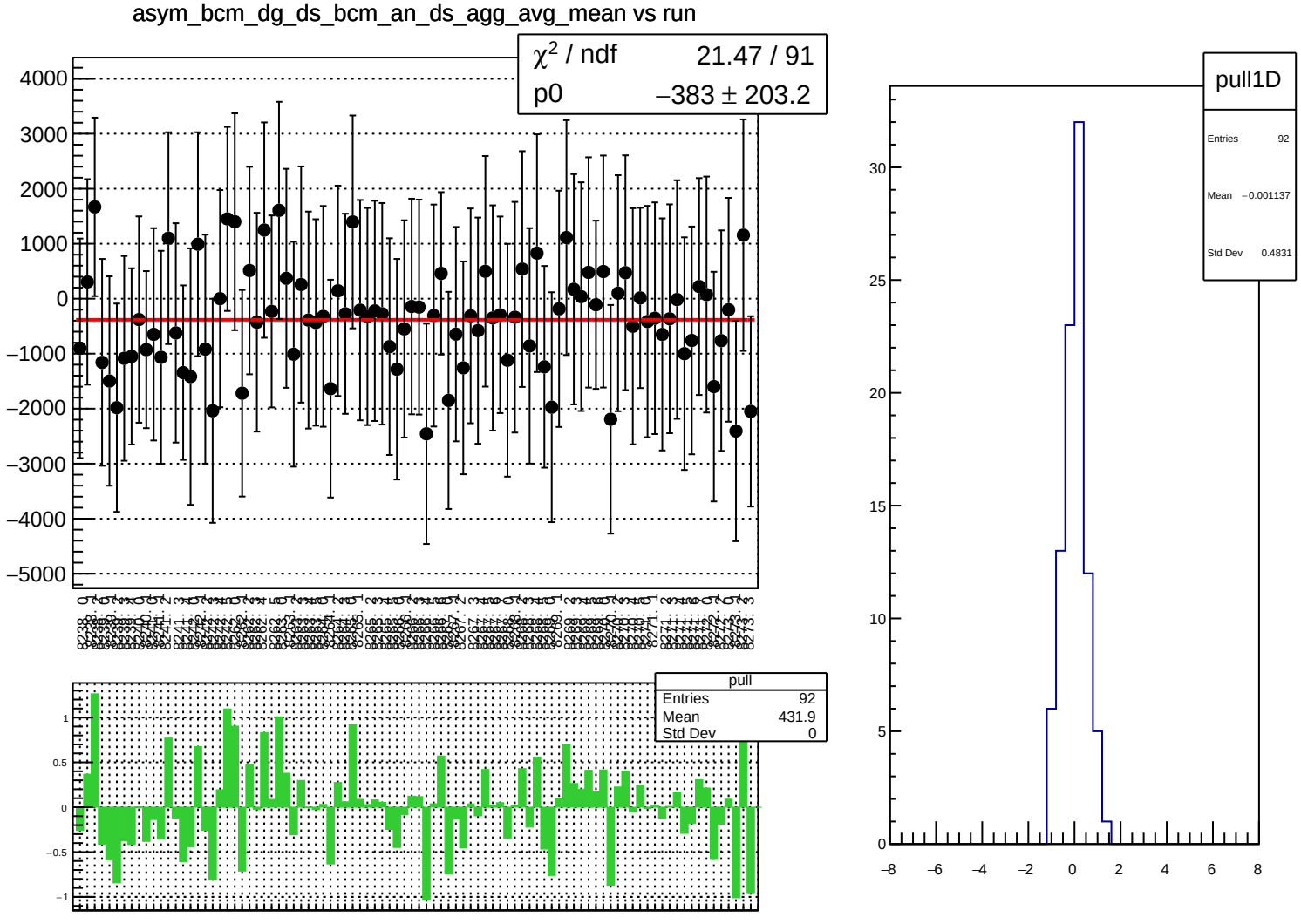

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 22.88 / 91
p0 −401.3 ± 203.3
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 607.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.0004169
Std Dev 0.4987
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

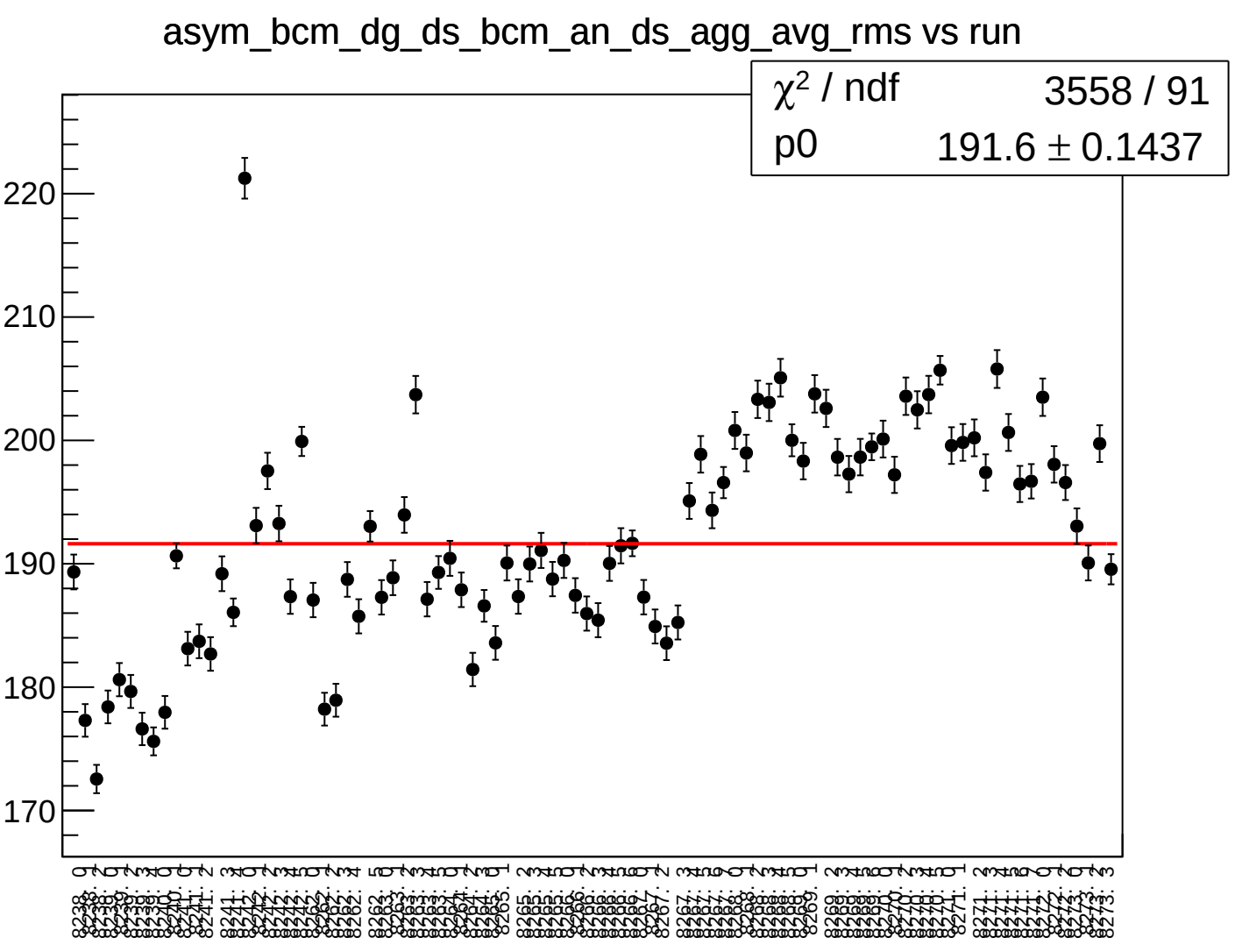

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3527 / 91
p0 191.7 ± 0.1437
220
210
200
190
180
170

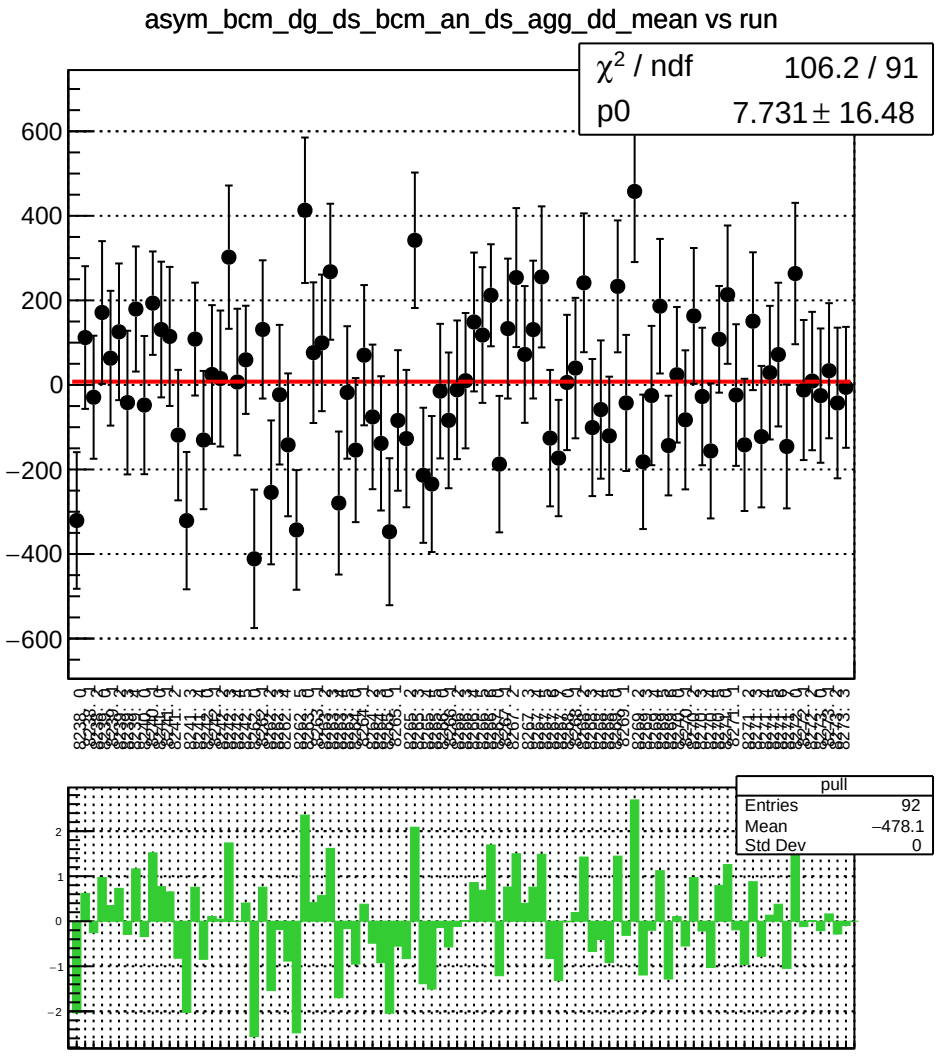

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 122.6 / 91
p0 −11.18 ± 22.31
1000
500
0
−500
−1000
pull
Entries 92
Mean 594.6
Std Dev 0
3
2
1
0
−1
−2
−3

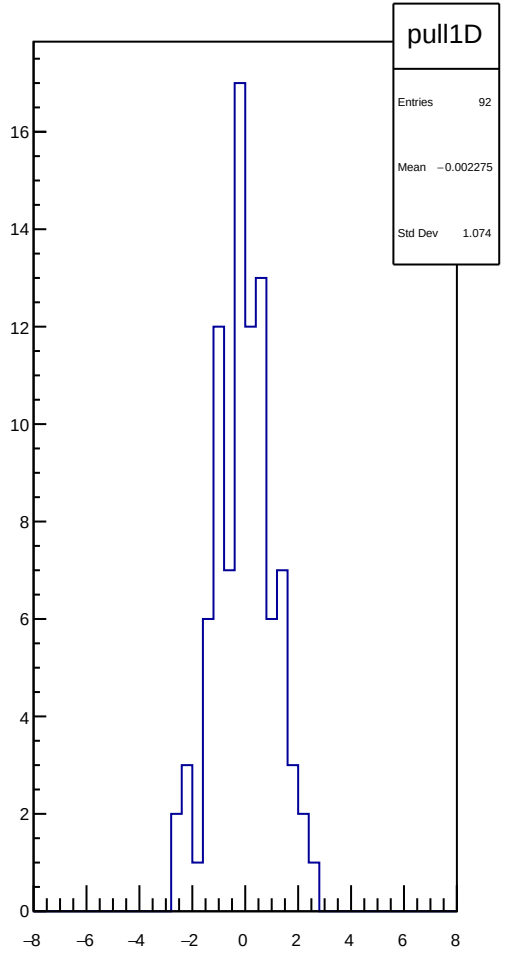

pull1D
Entries 92
Mean 0.005035
Std Dev 1.155
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

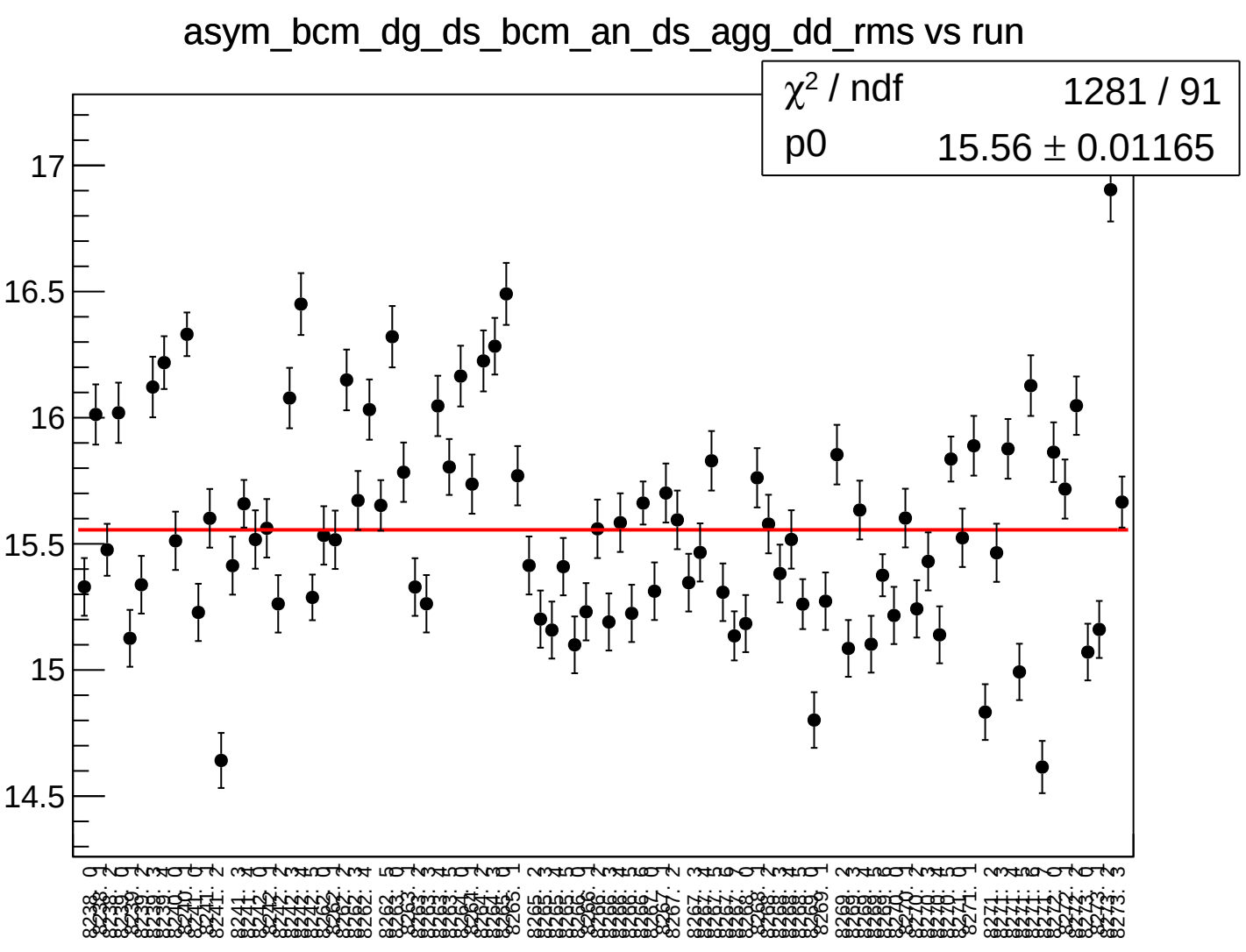

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 324.4 / 91
p0 21.07 ± 0.01578
22
21.5
21
20.5
20

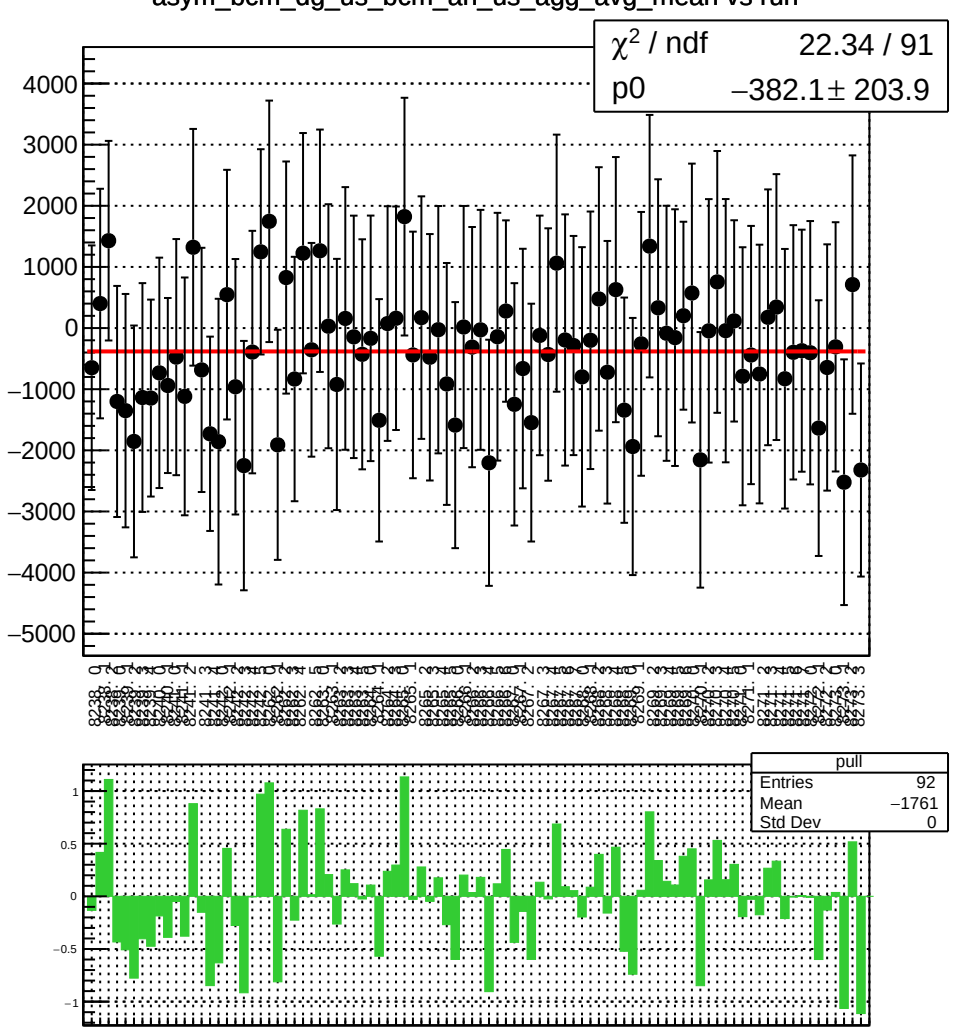

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 21.47 / 91
p0 −383 ± 203.2
pull
Entries 92
Mean 431.9
Std Dev 0
pull1D
Entries 92
Mean −0.001137
Std Dev 0.4831

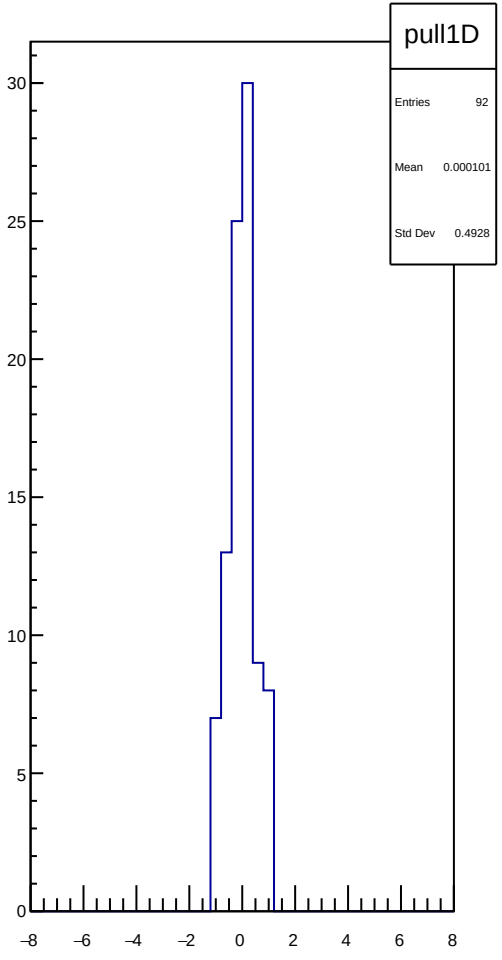

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3558 / 91
p0 191.6 ± 0.1437
220
210
200
190
180
170

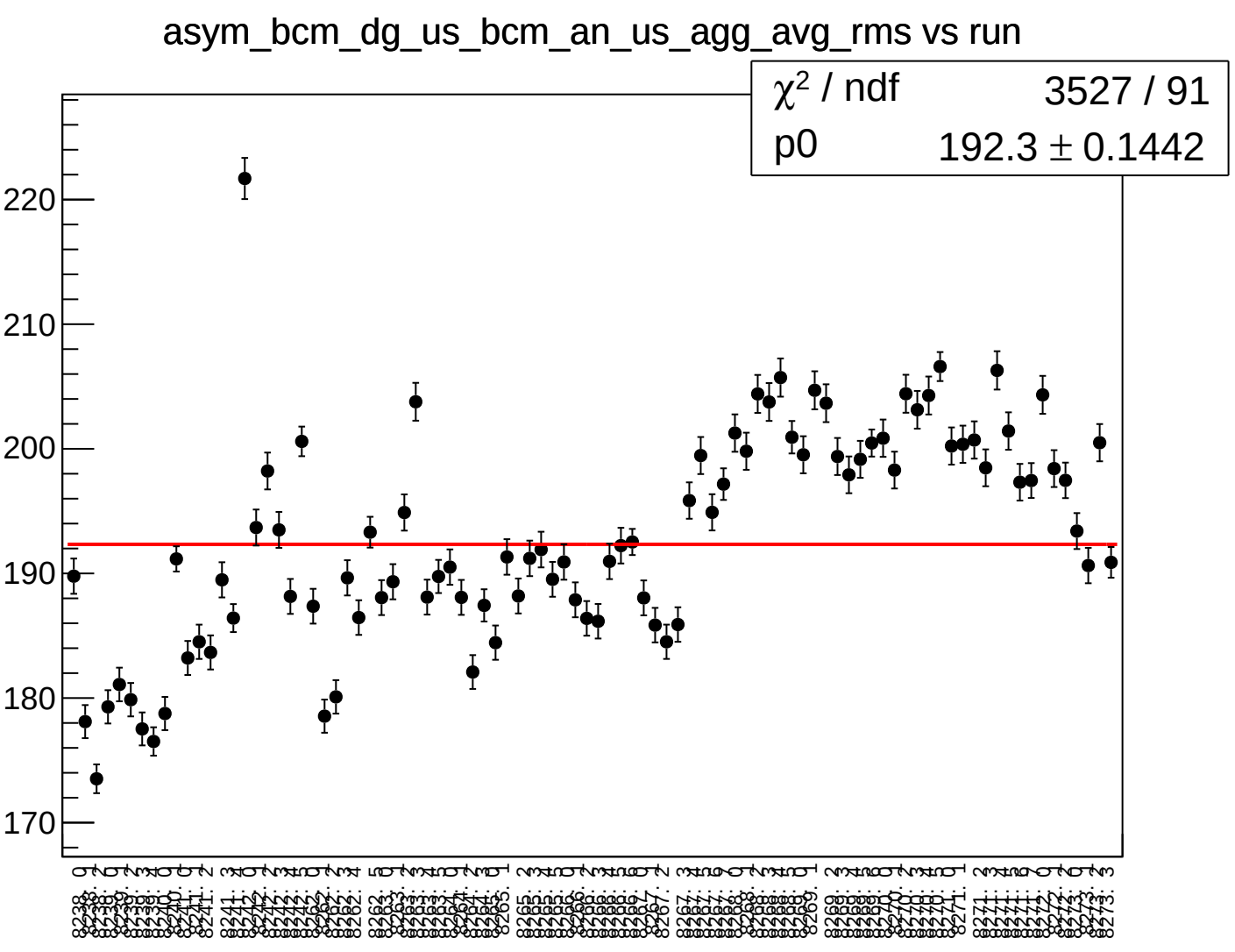

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 106.2 / 91
p0 7.731 ± 16.48
600
400
200
0
−200
−400
−600
pull
Entries 92
Mean −478.1
Std Dev 0
2
1
0
−1
−2

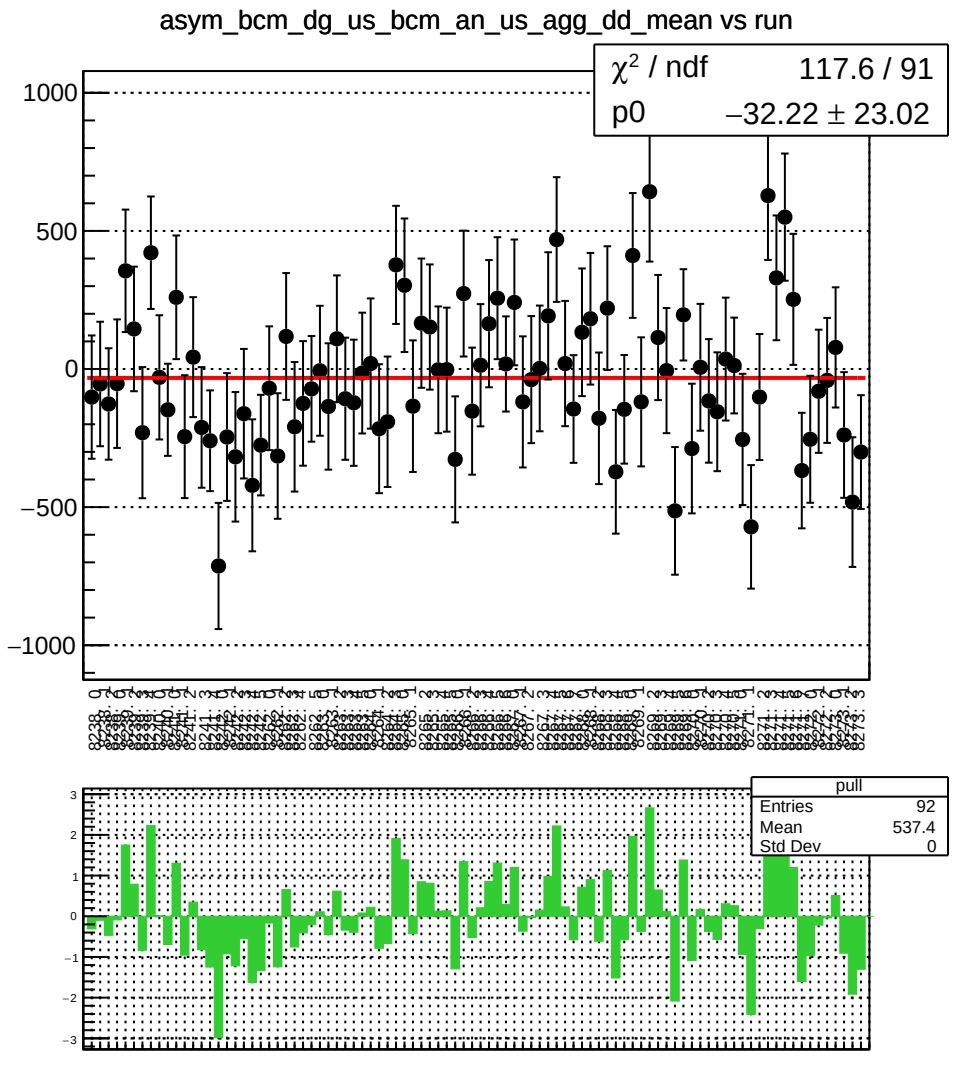

pull1D
Entries 92
Mean −0.002275
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

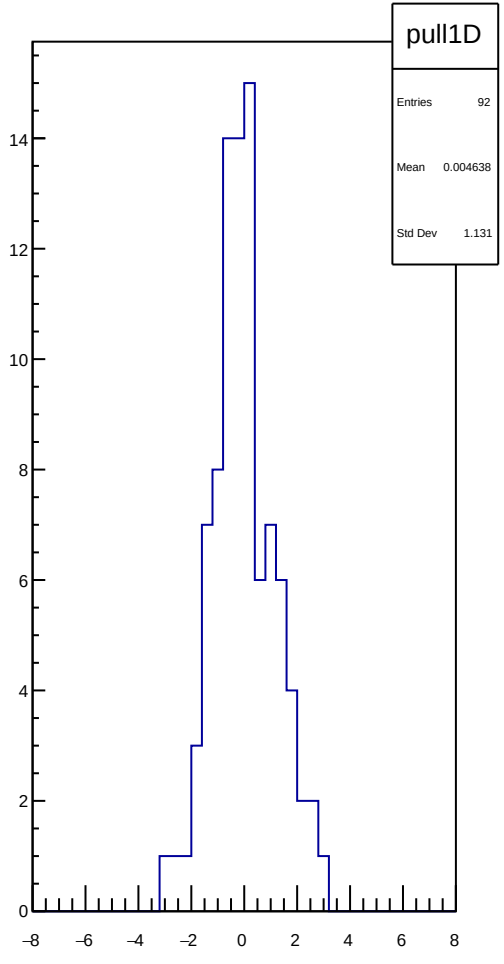

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1281 / 91
p0 15.56 ± 0.01165
17
16.5
16
15.5
15
14.5

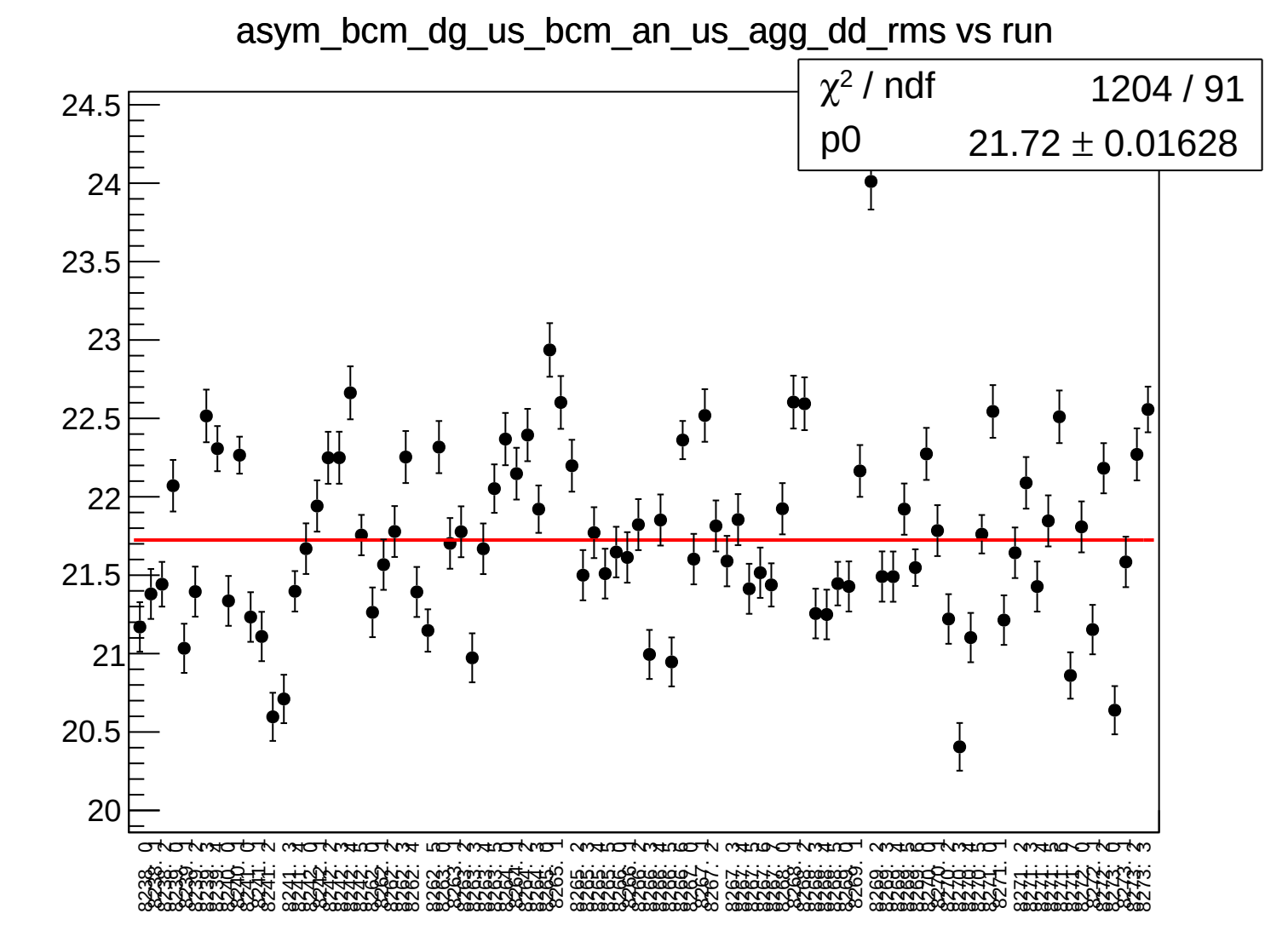

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 22.34 / 91
p0 −382.1± 203.9
pull
Entries 92
Mean −1761
Std Dev 0

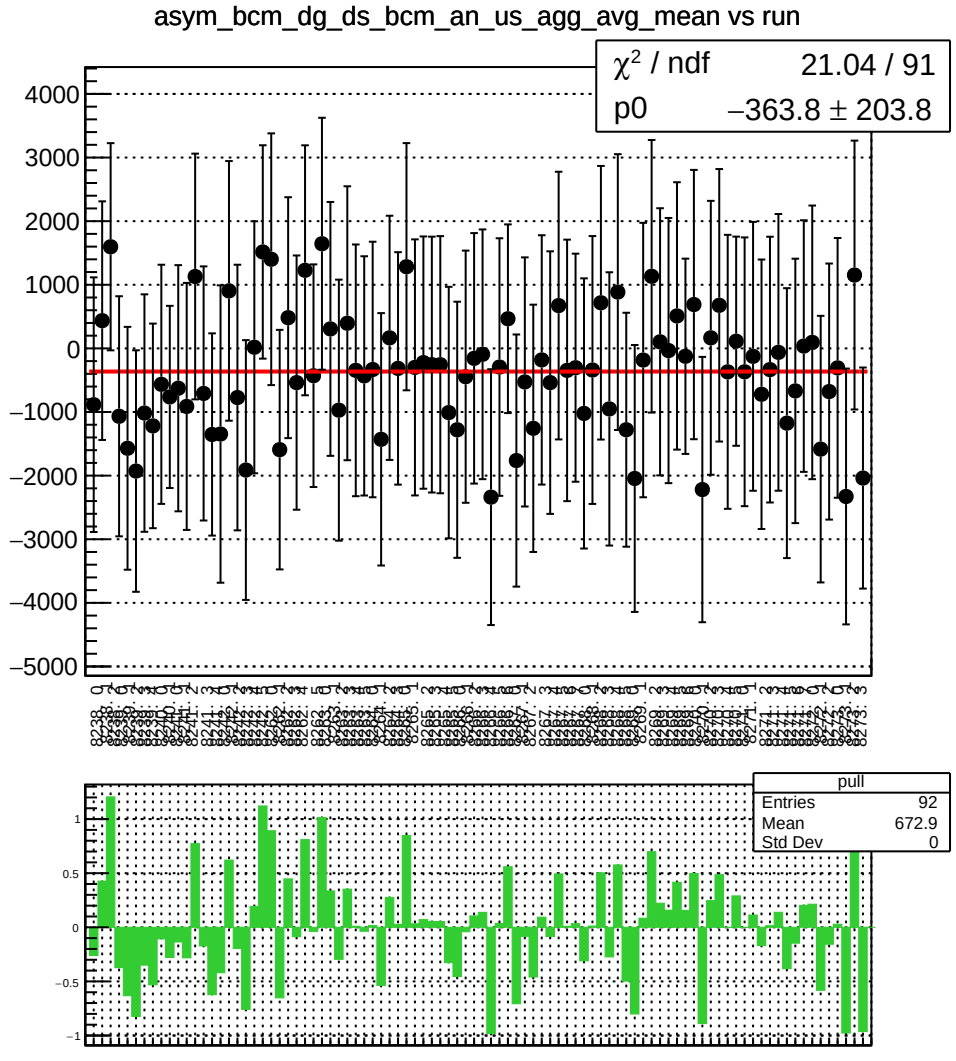

pull1D
Entries 92
Mean 0.000101
Std Dev 0.4928

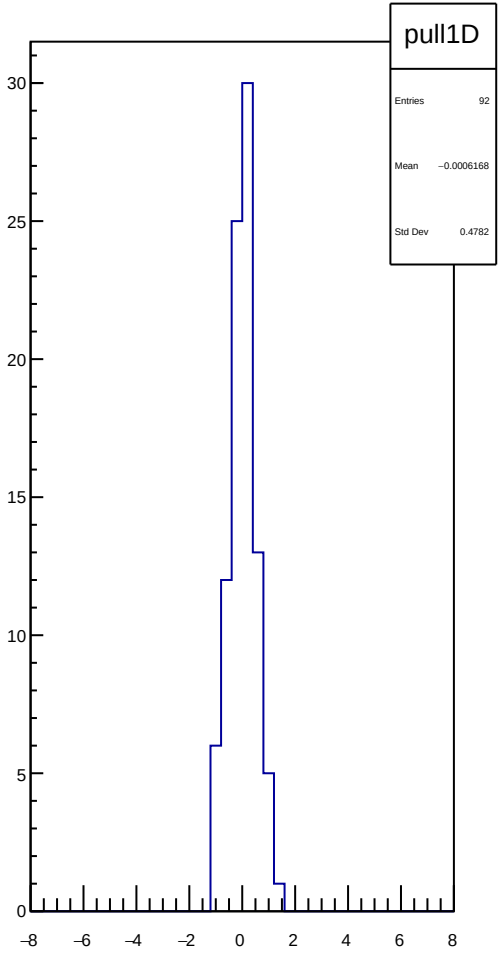

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3527 / 91
p0 192.3 ± 0.1442
220
210
200
190
180
170

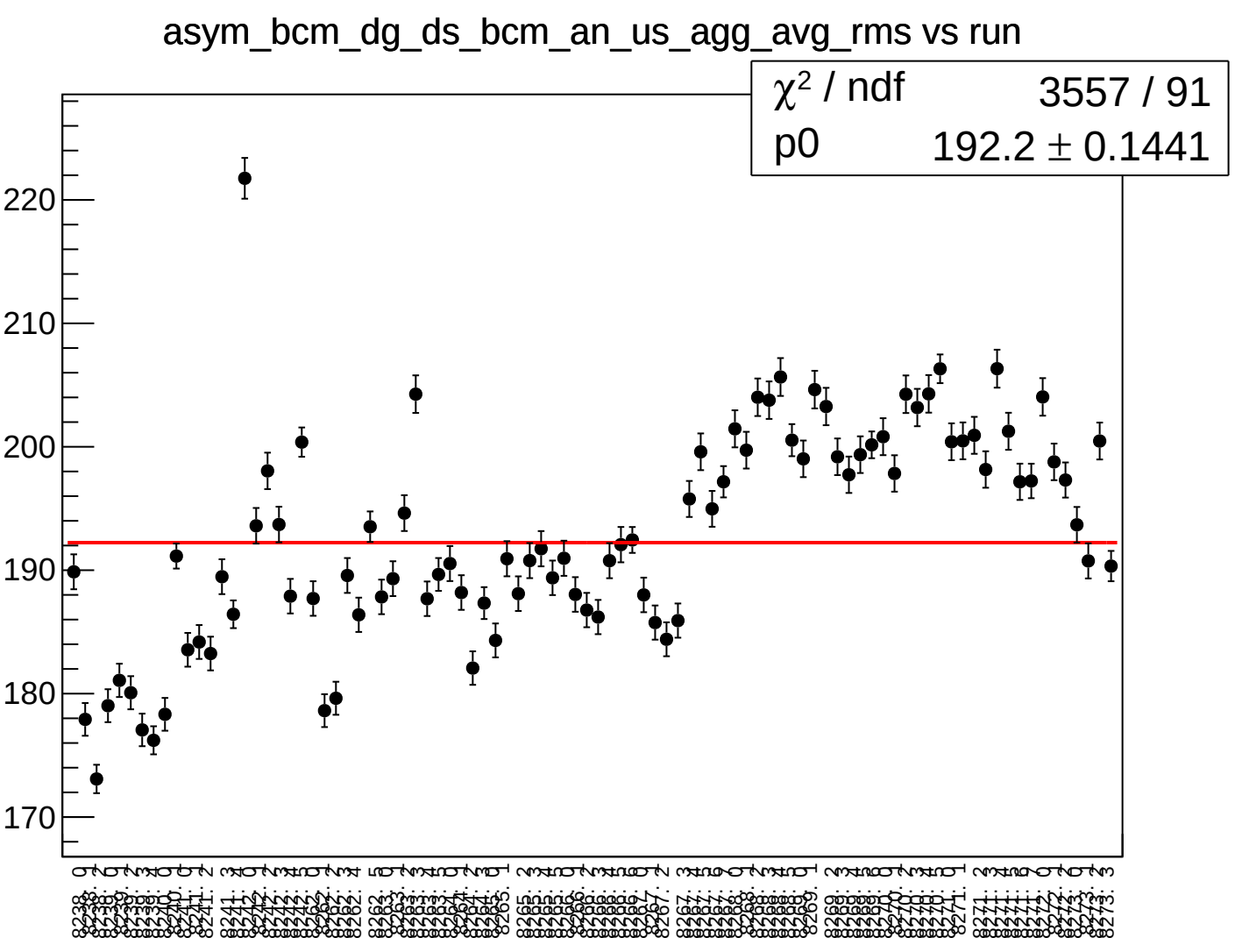

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 117.6 / 91
p0 −32.22 ± 23.02
1000
500
0
−500
−1000
pull
Entries 92
Mean 537.4
Std Dev 0
3
2
1
0
−1
−2
−3

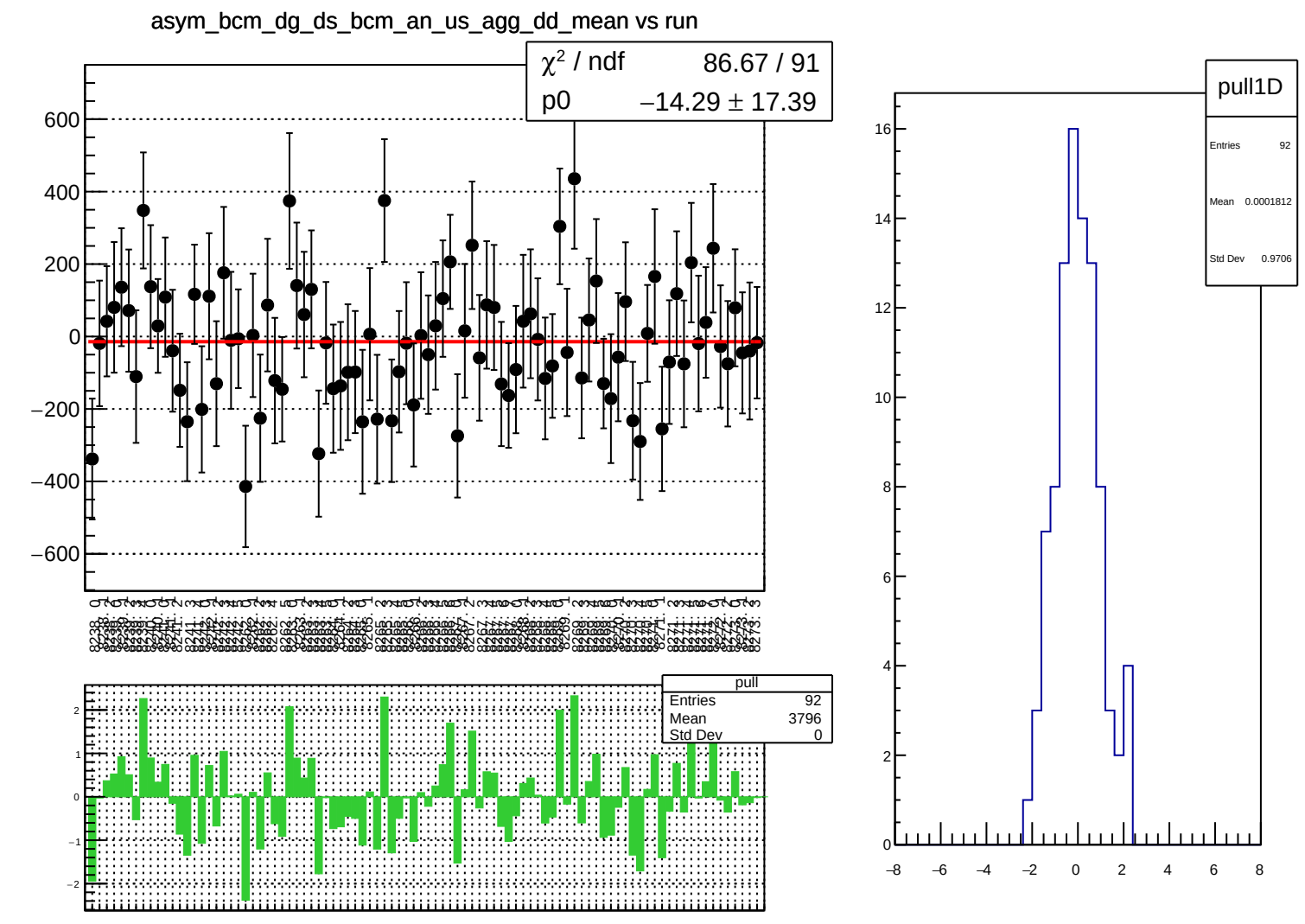

pull1D
Entries 92
Mean 0.004638
Std Dev 1.131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

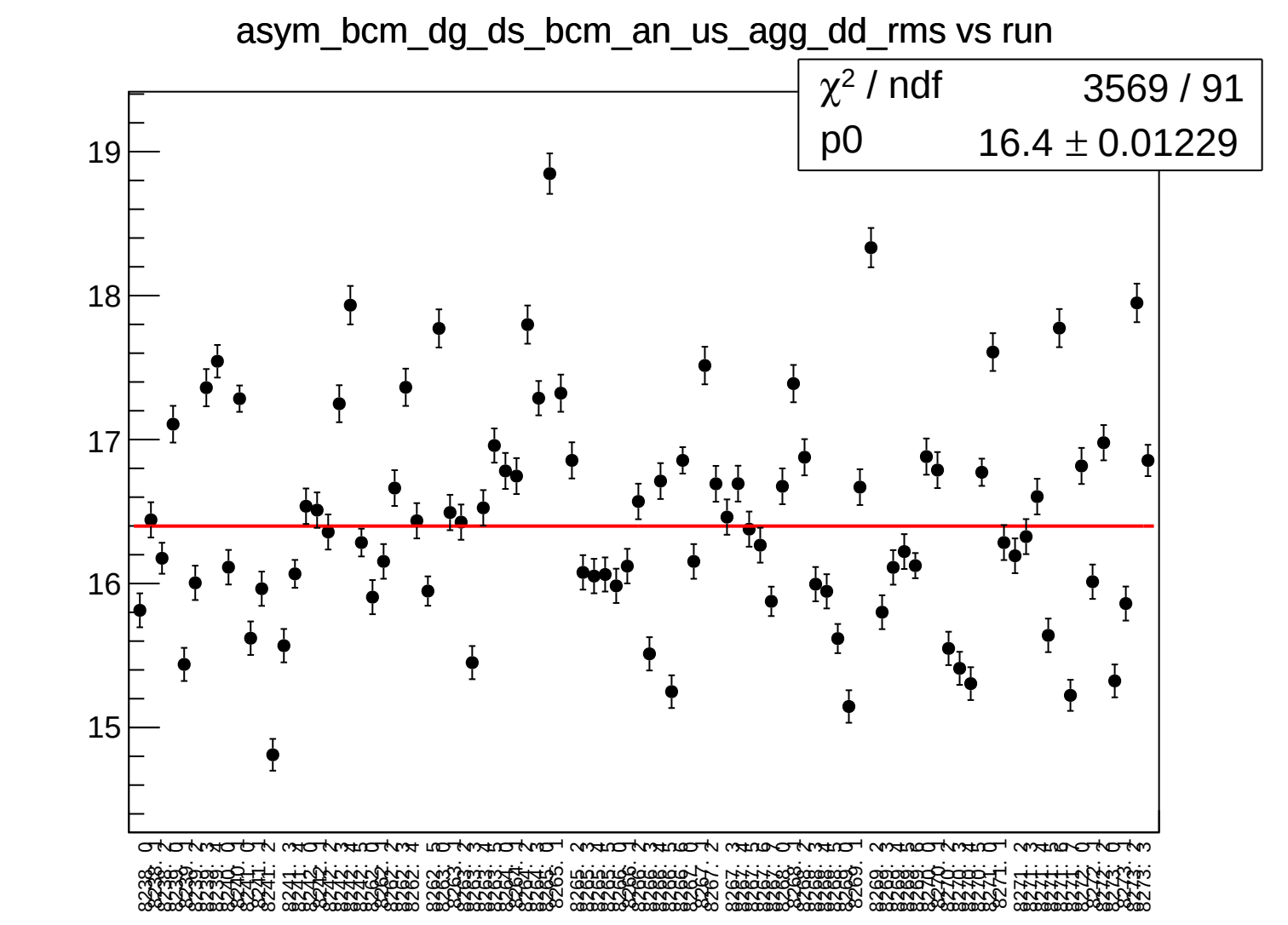

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1204 / 91
p0 21.72 ± 0.01628
24.5
24
23.5
23
22.5
22
21.5
21
20.5
20

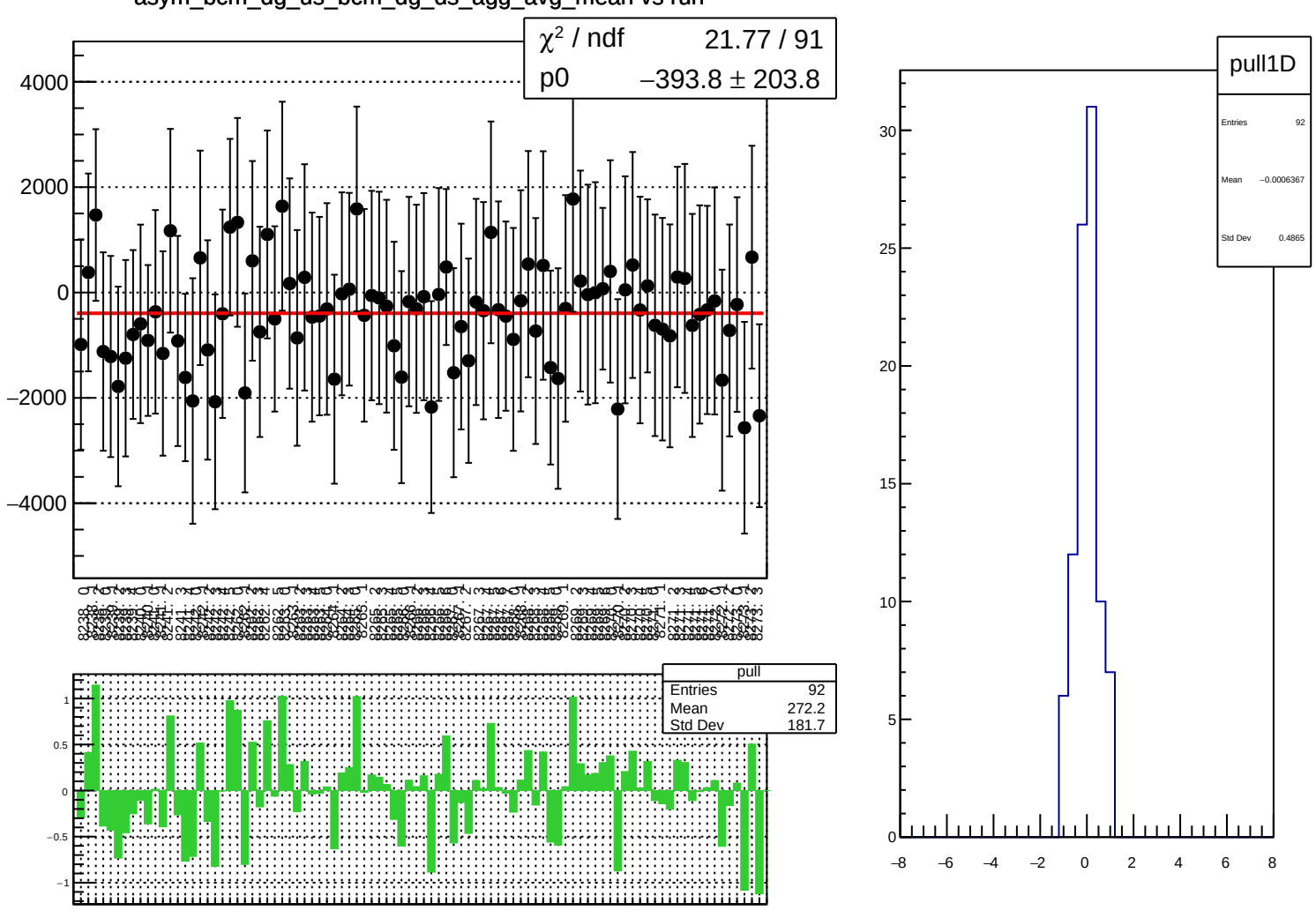

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 21.04 / 91
p0 −363.8 ± 203.8
pull
Entries 92
Mean 672.9
Std Dev 0

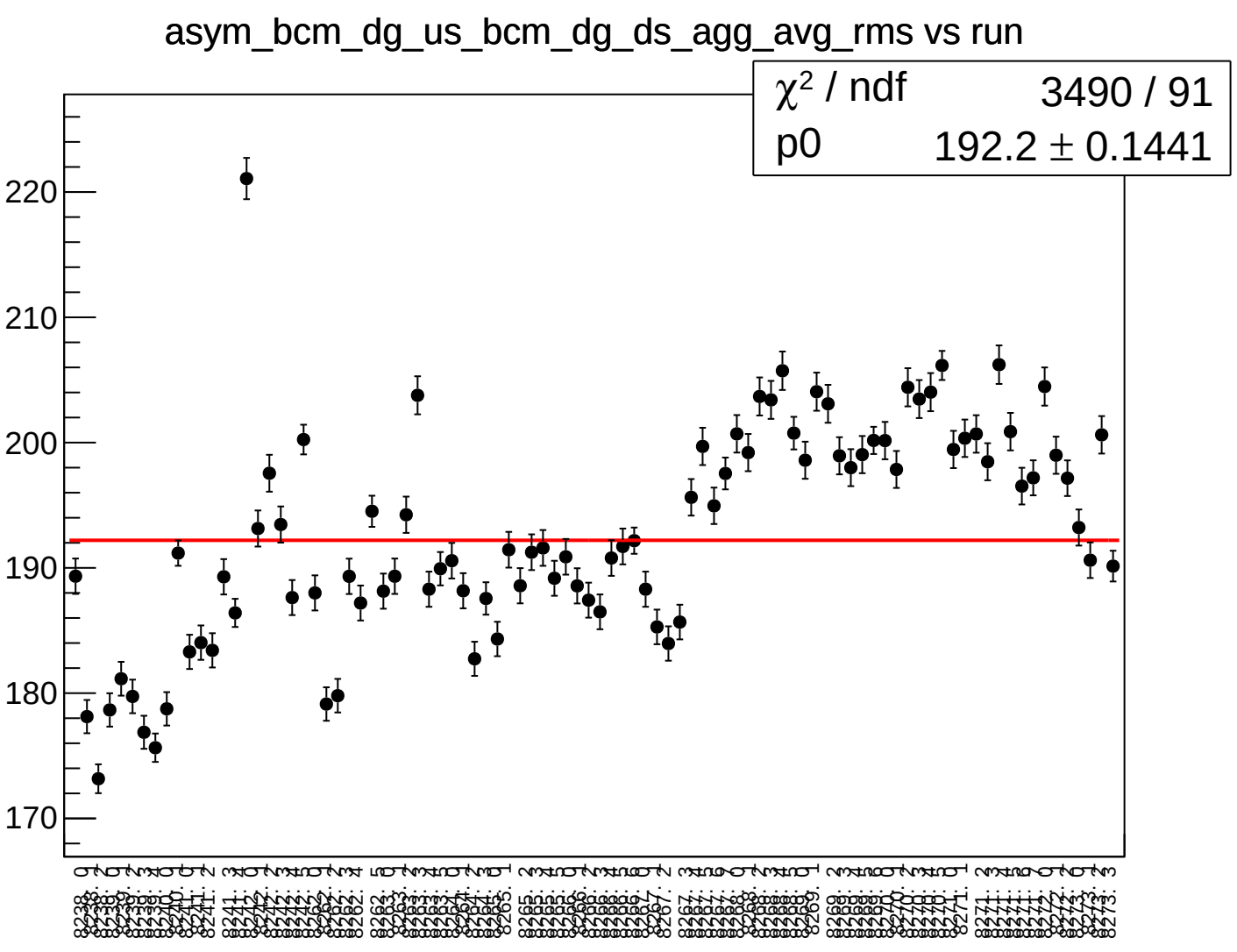

pull1D
Entries 92
Mean −0.0006168
Std Dev 0.4782

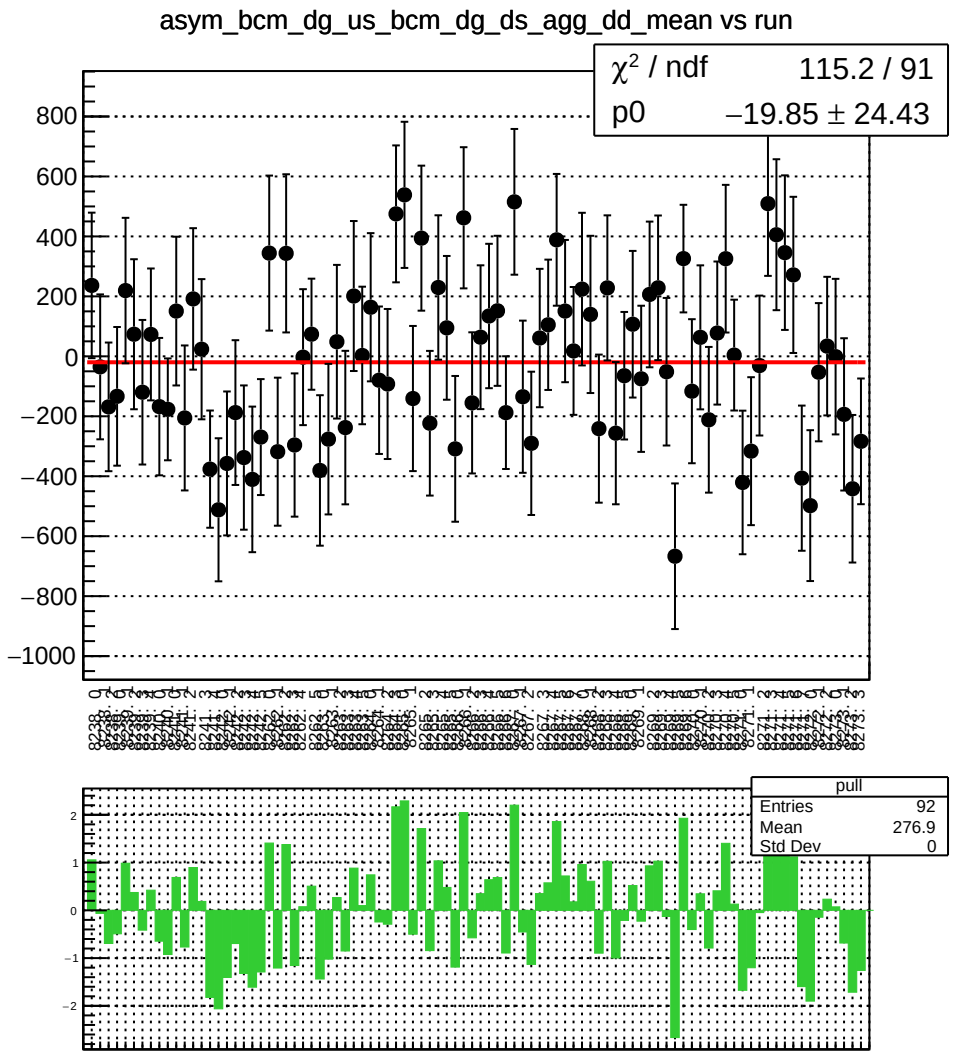

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3557 / 91
p0 192.2 ± 0.1441
220
210
200
190
180
170

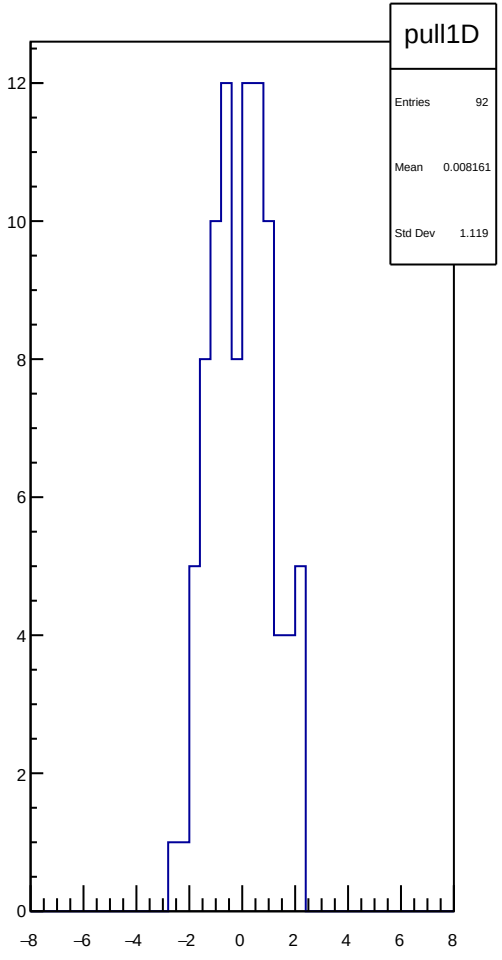

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 86.67 / 91
p0 −14.29 ± 17.39
600
400
200
0
−200
−400
−600
pull
Entries 92
Mean 3796
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0001812
Std Dev 0.9706
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

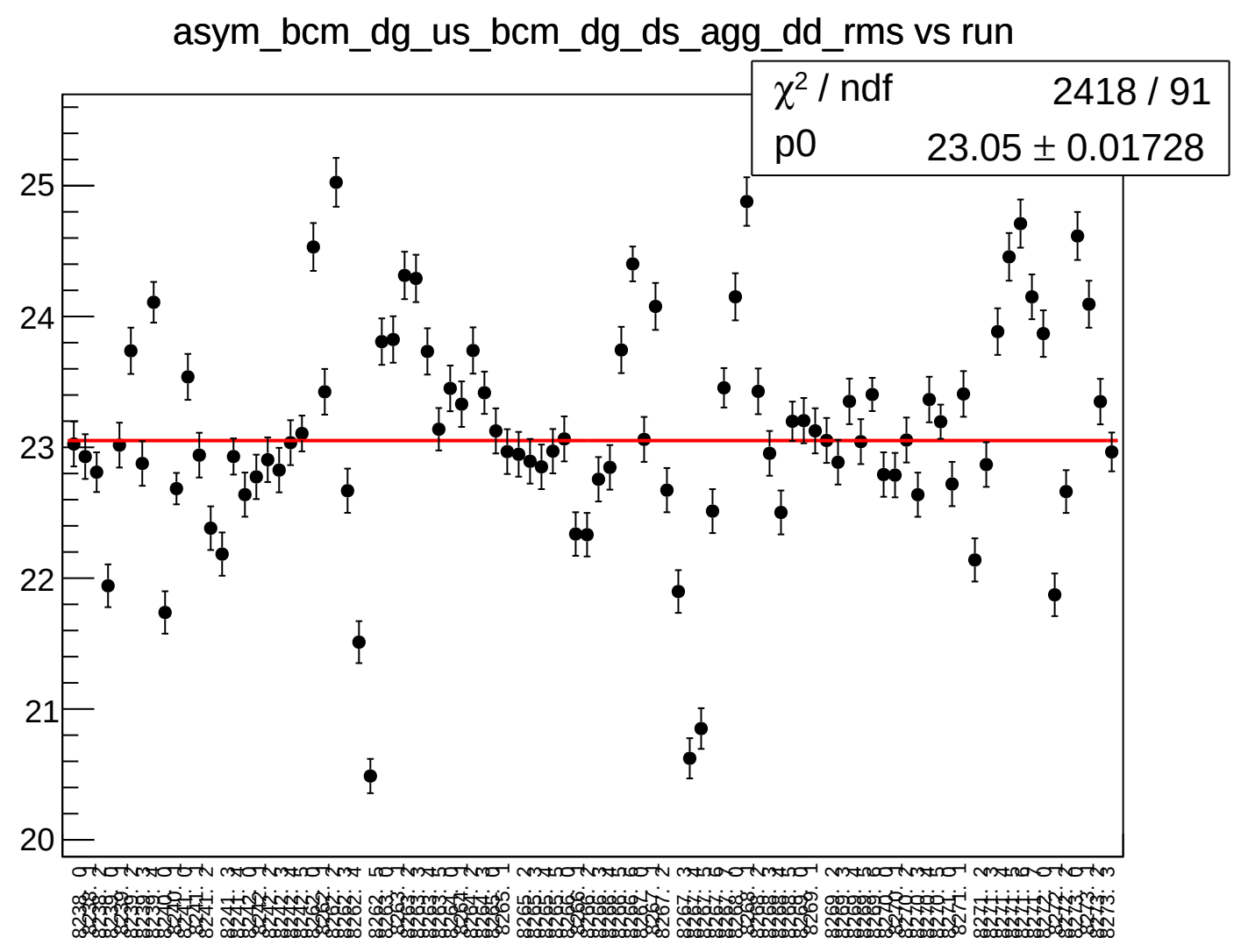

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3569 / 91
p0 16.4 ± 0.01229
19
18
17
16
15

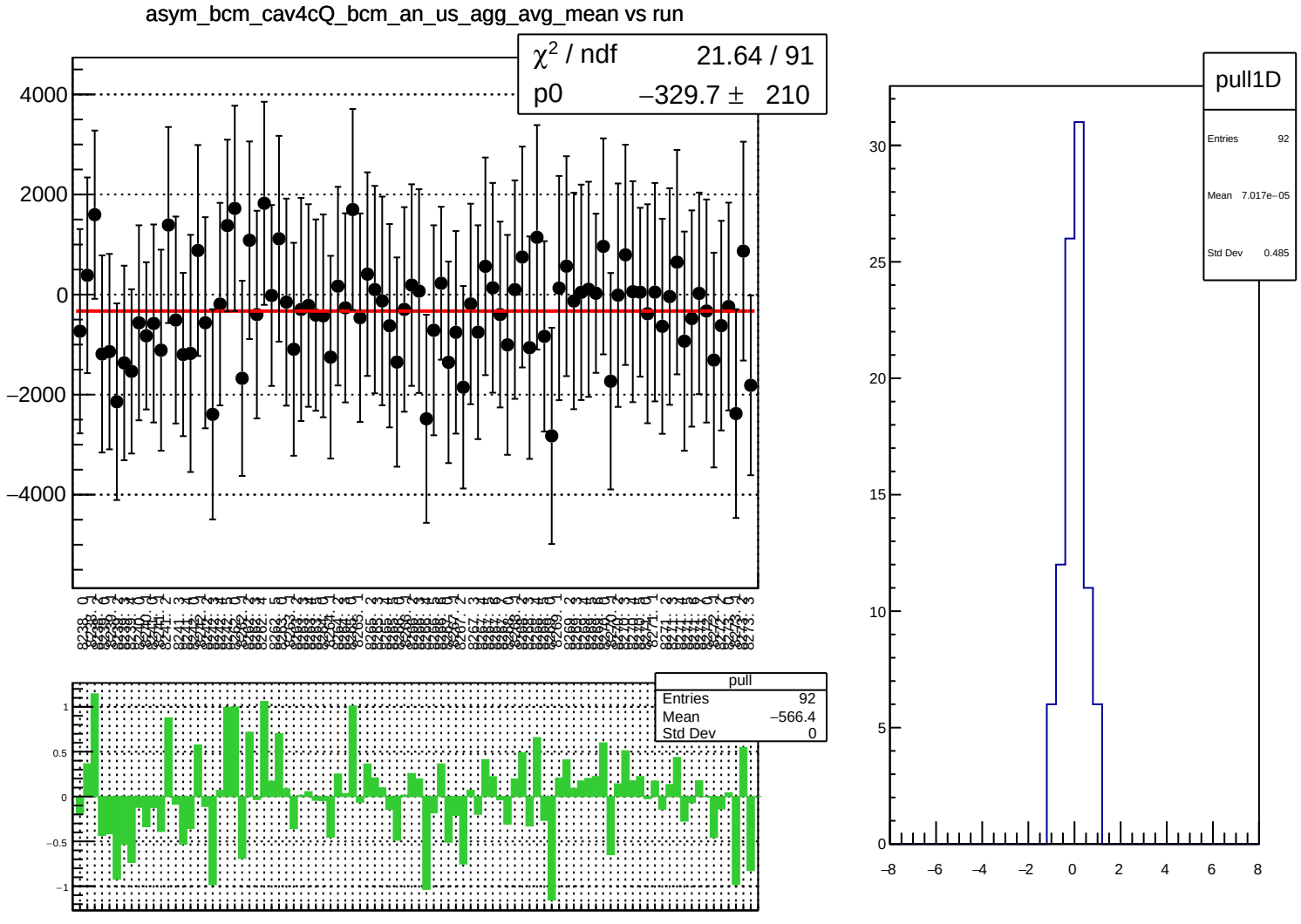

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 21.77 / 91
p0 −393.8 ± 203.8
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 272.2
Std Dev 181.7
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.0006367
Std Dev 0.4865
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

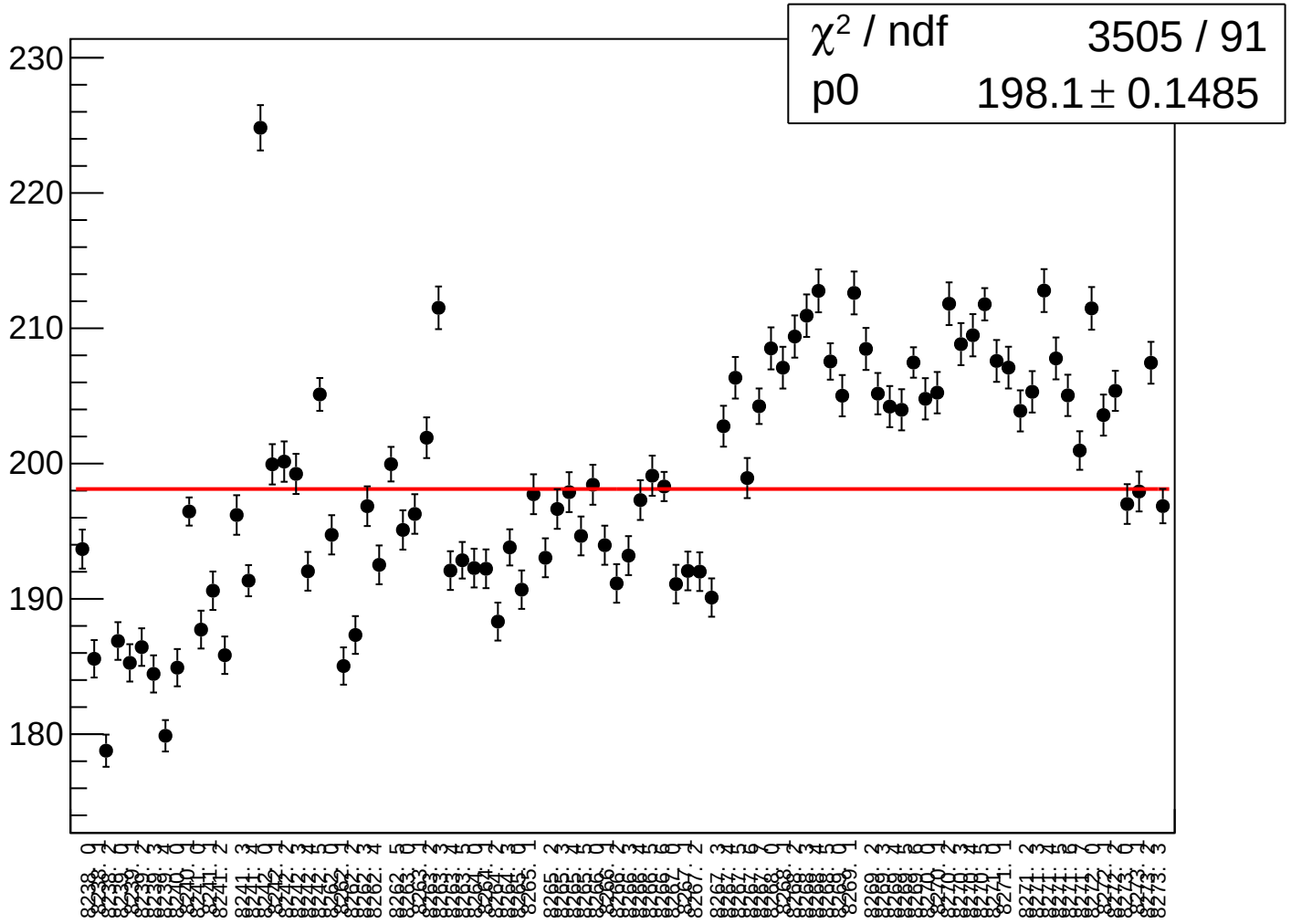

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3490 / 91
p0 192.2 ± 0.1441
220
210
200
190
180
170

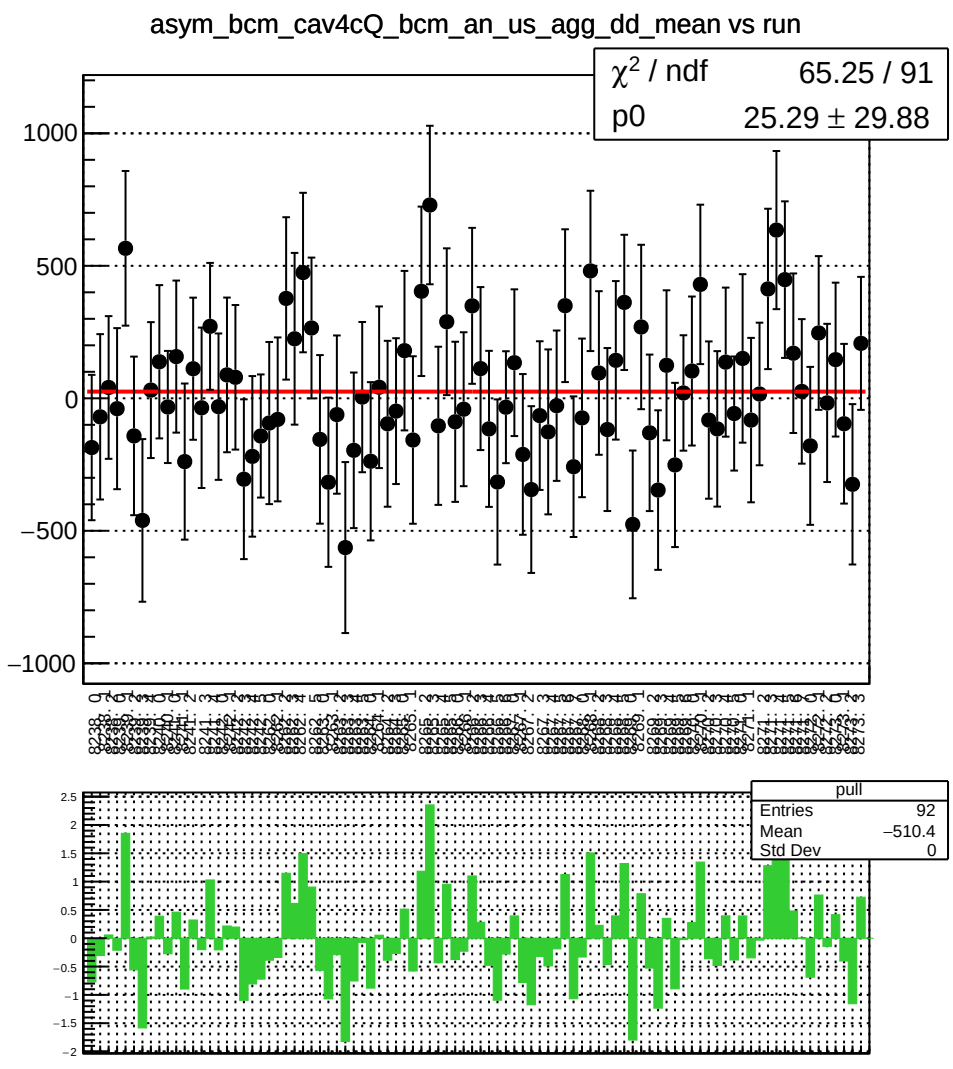

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 115.2 / 91
p0 −19.85 ± 24.43
pull
Entries 92
Mean 276.9
Std Dev 0

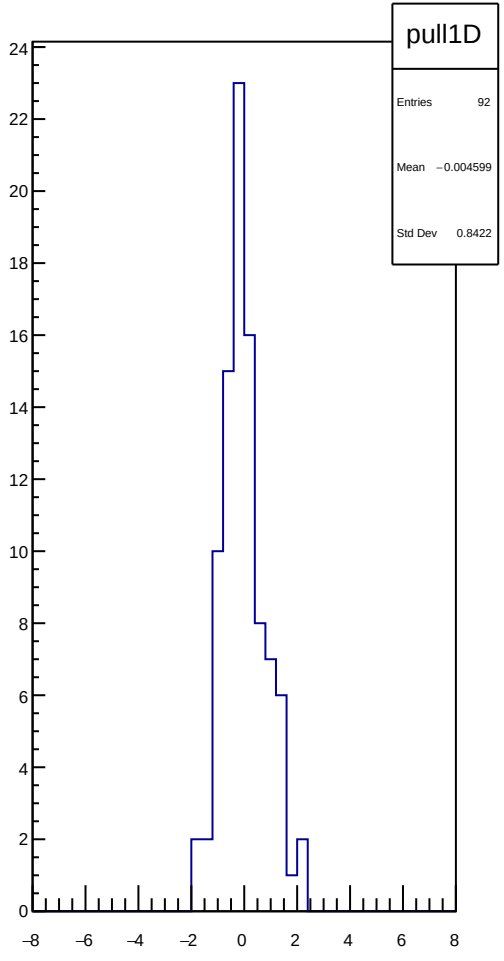

pull1D
Entries 92
Mean 0.008161
Std Dev 1.119

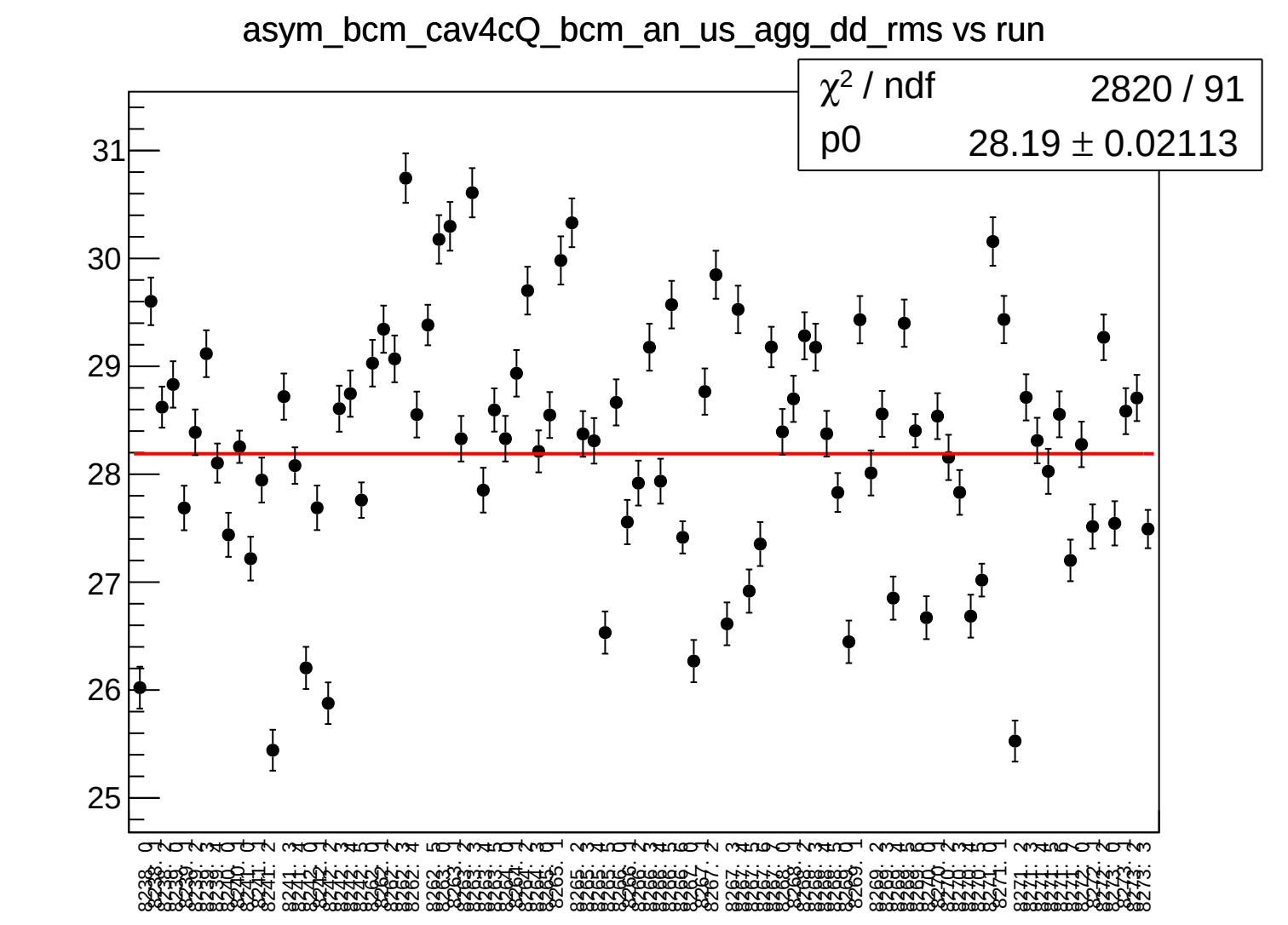

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2418 / 91
p0 23.05 ± 0.01728
25
24
23
22
21
20

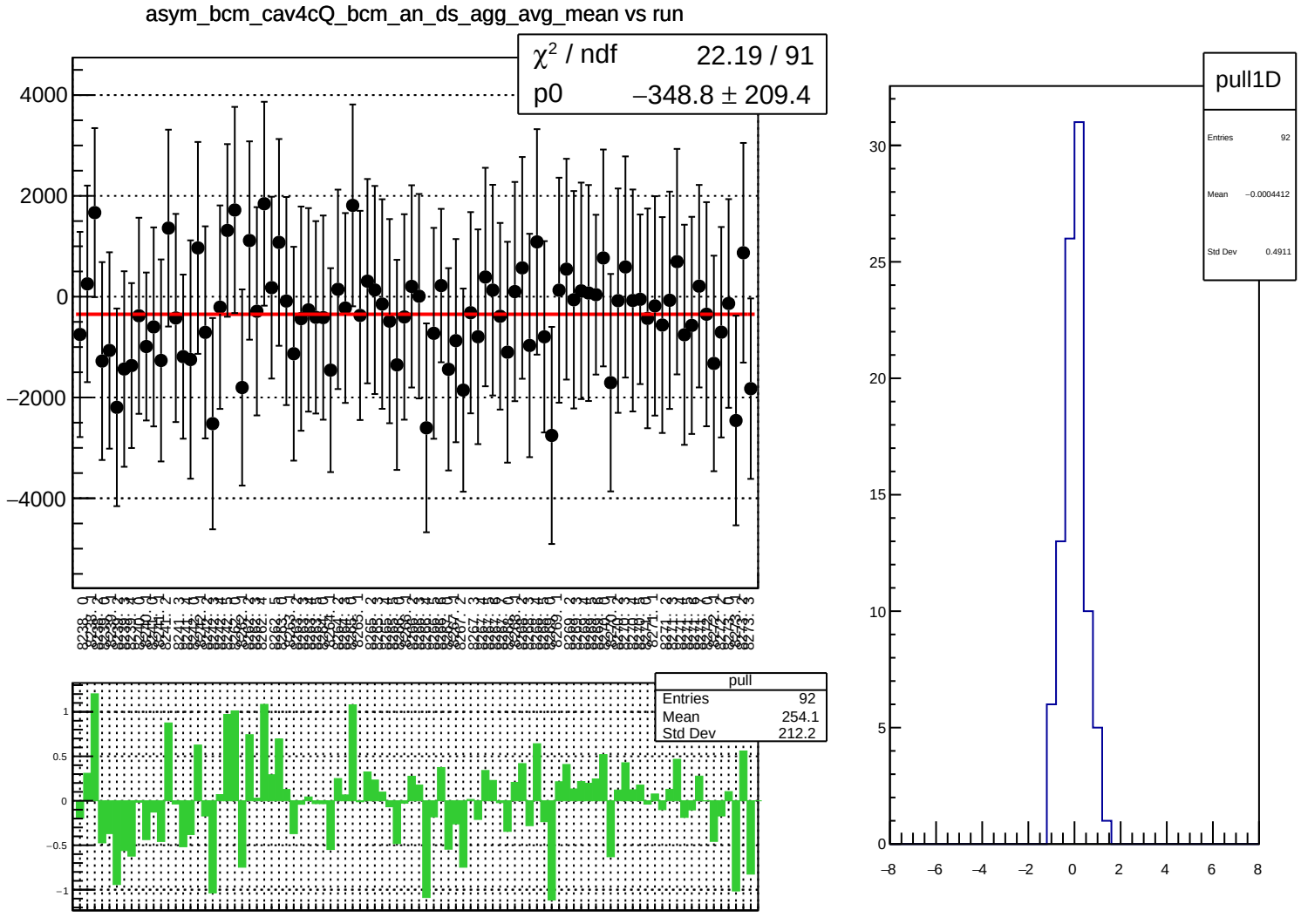

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 21.64 / 91
p0 −329.7 ± 210
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −566.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean 7.017e−05
Std Dev 0.485
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

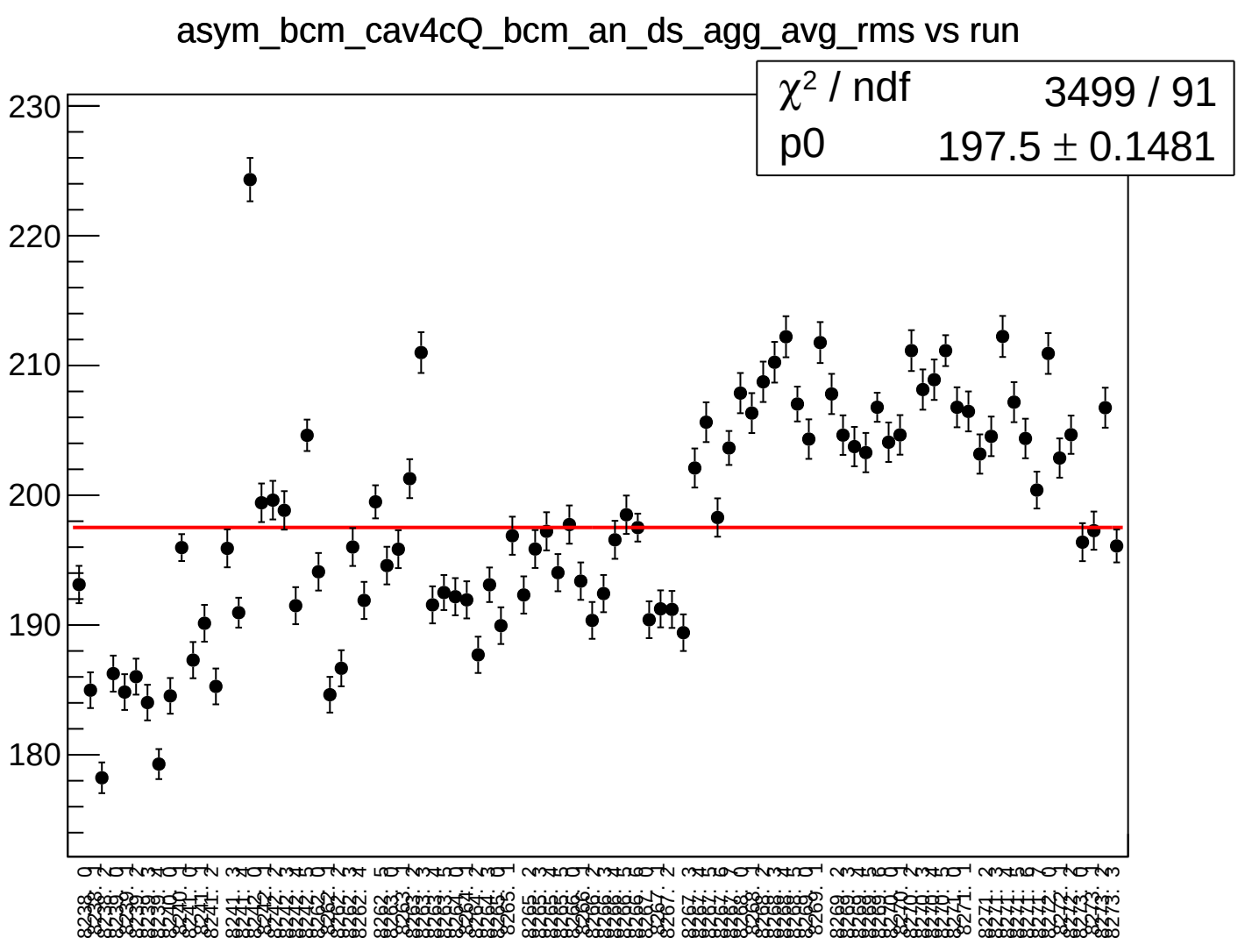

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3505 / 91
p0 198.1 ± 0.1485
230
220
210
200
190
180

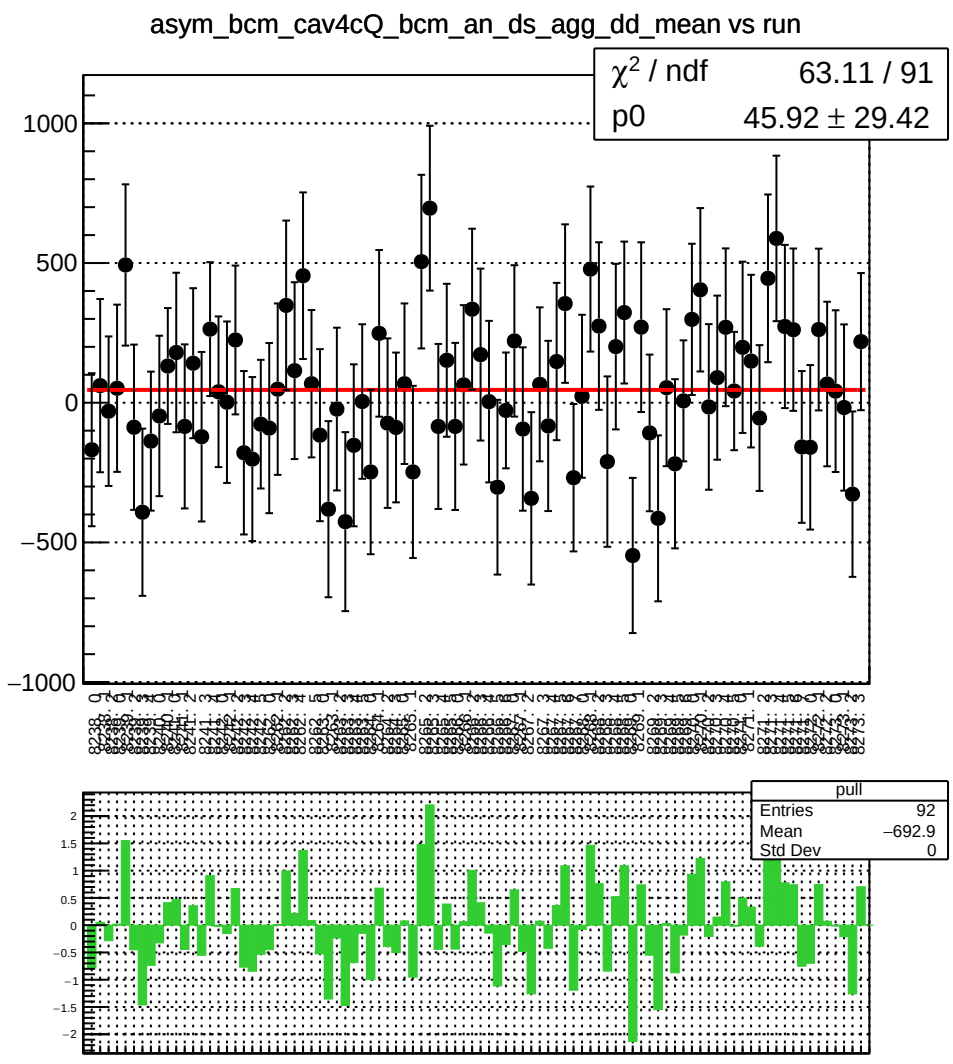

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 65.25 / 91
p0 25.29 ± 29.88
1000
500
0
−500
−1000
pull
Entries 92
Mean −510.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

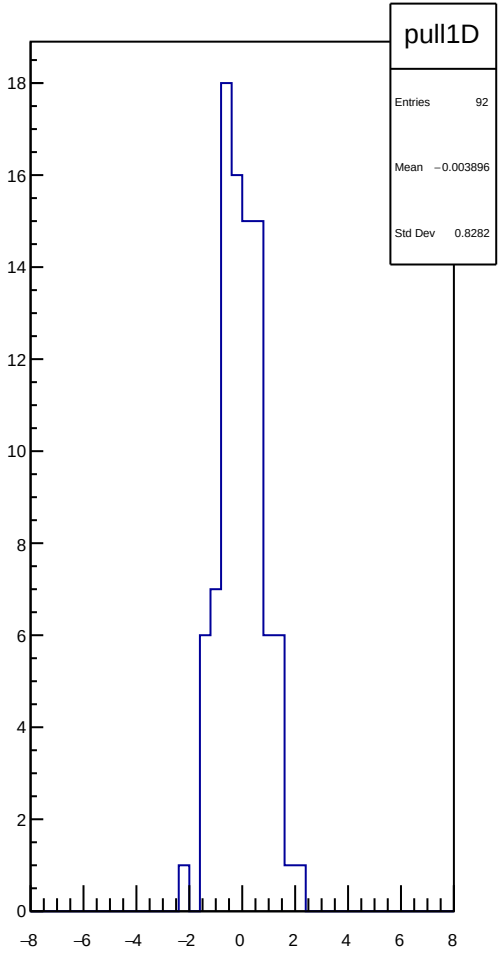

pull1D
Entries 92
Mean −0.004599
Std Dev 0.8422
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

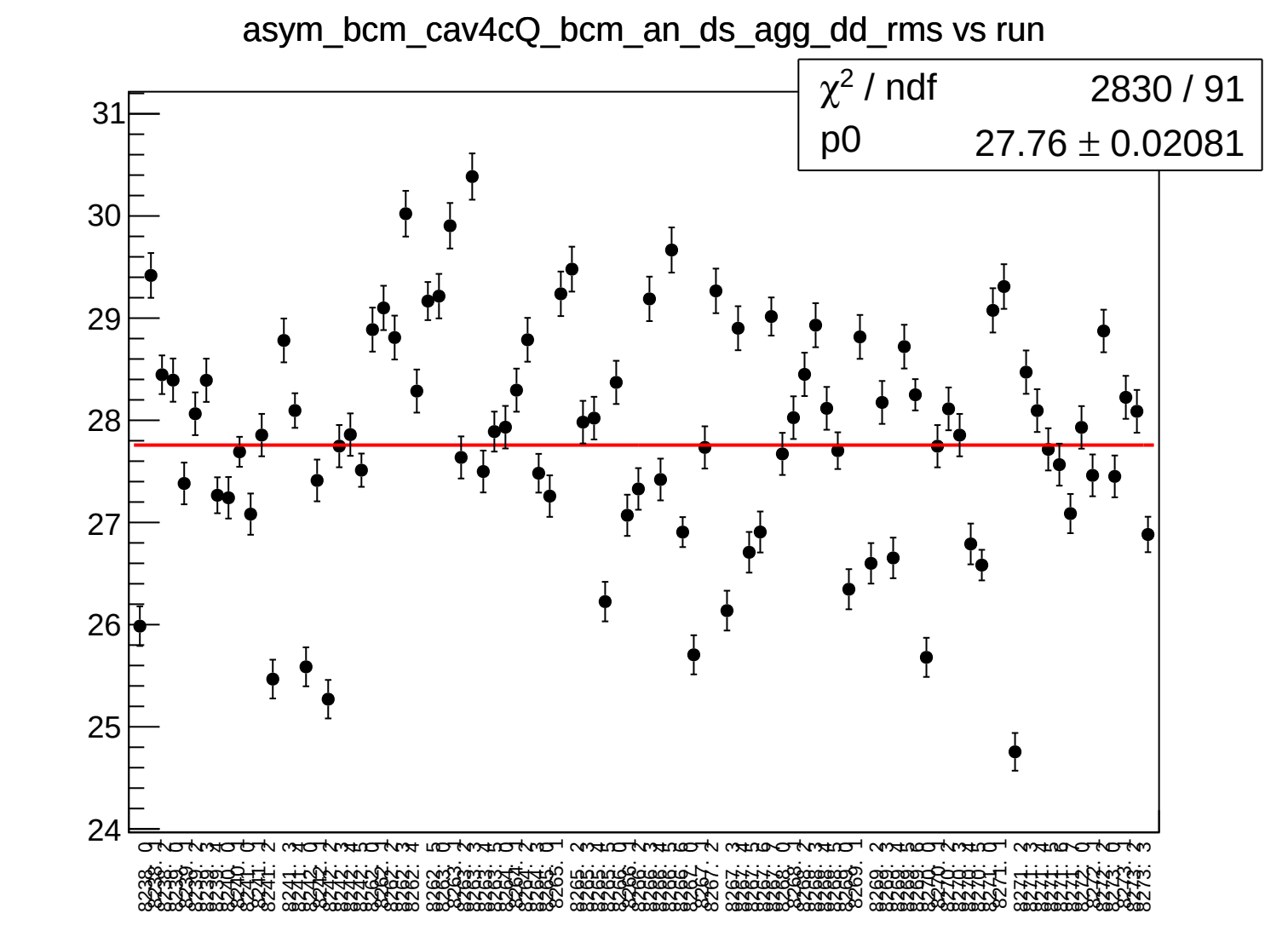

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2820 / 91
p0 28.19 ± 0.02113
31
30
29
28
27
26
25

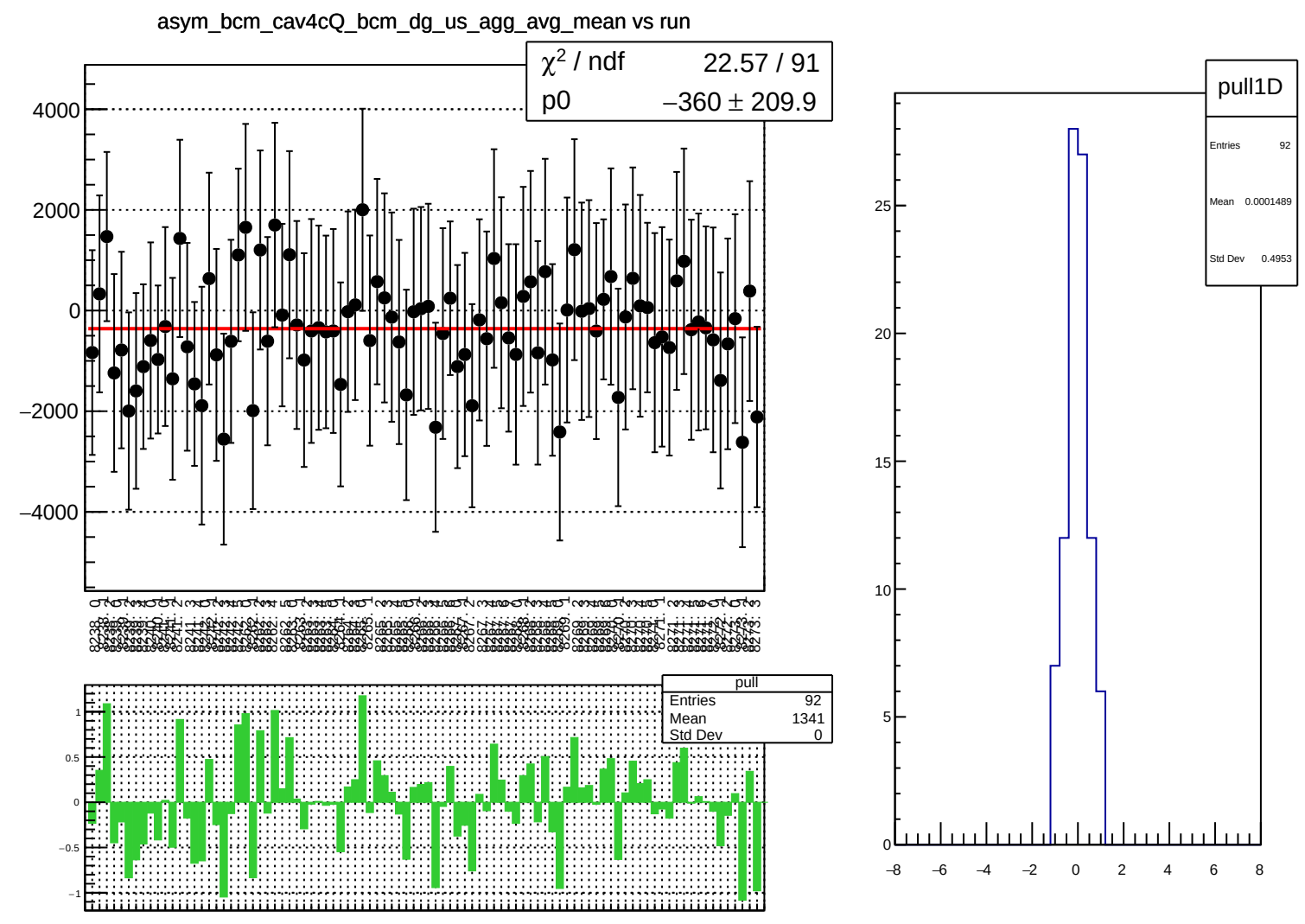

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 22.19 / 91
p0 −348.8 ± 209.4
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 254.1
Std Dev 212.2
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.0004412
Std Dev 0.4911
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

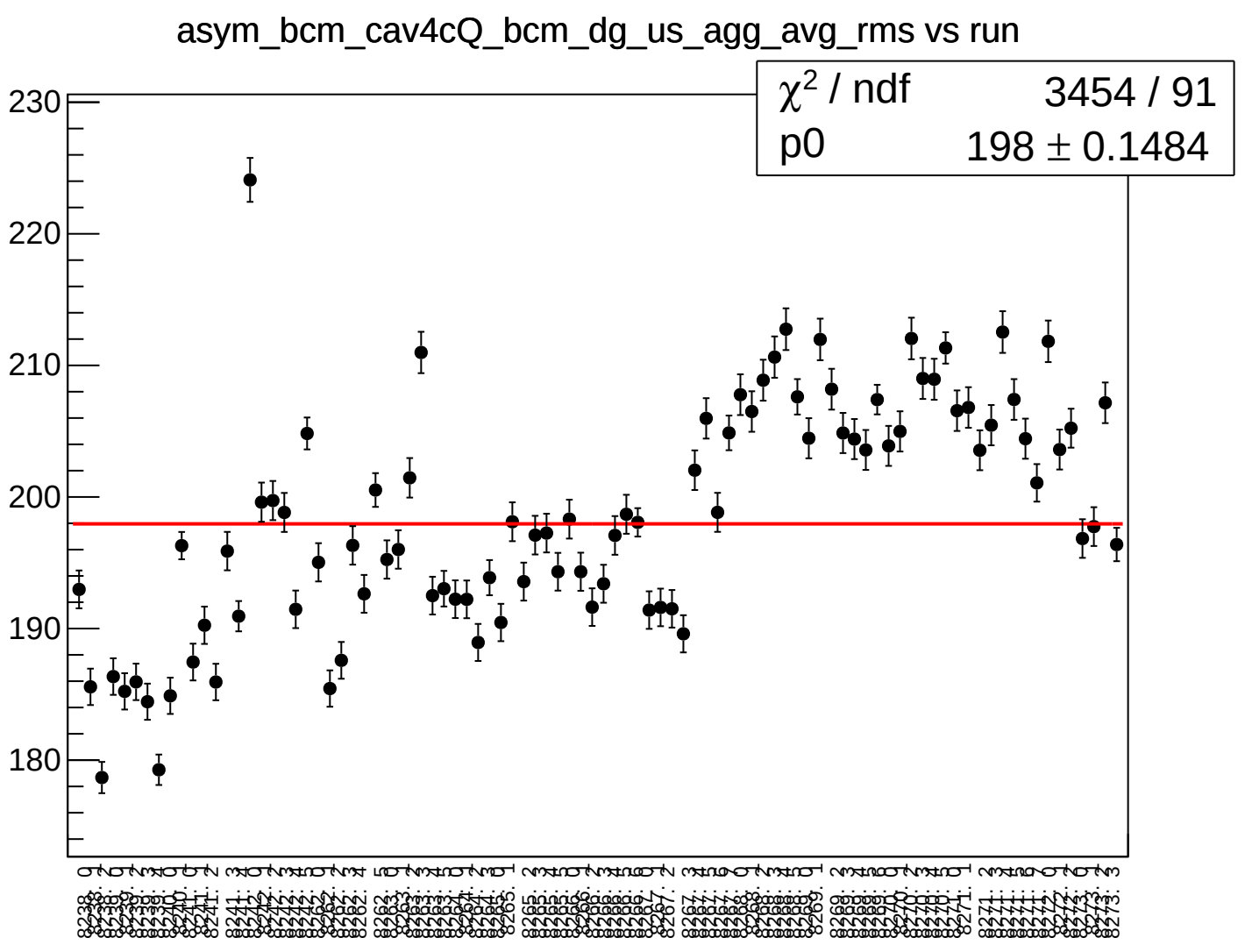

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3499 / 91
p0 197.5 ± 0.1481
230
220
210
200
190
180

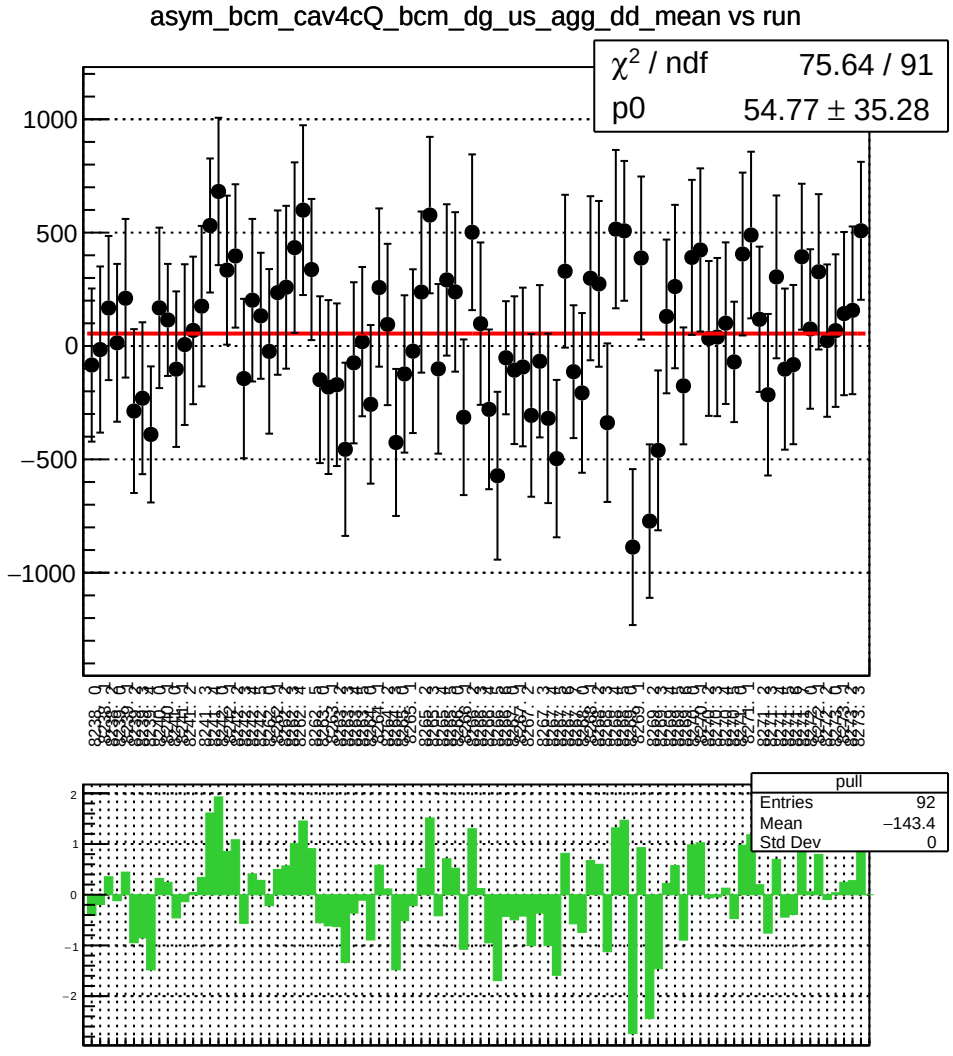

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 63.11 / 91
p0 45.92 ± 29.42
1000
500
0
−500
−1000
pull
Entries 92
Mean −692.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

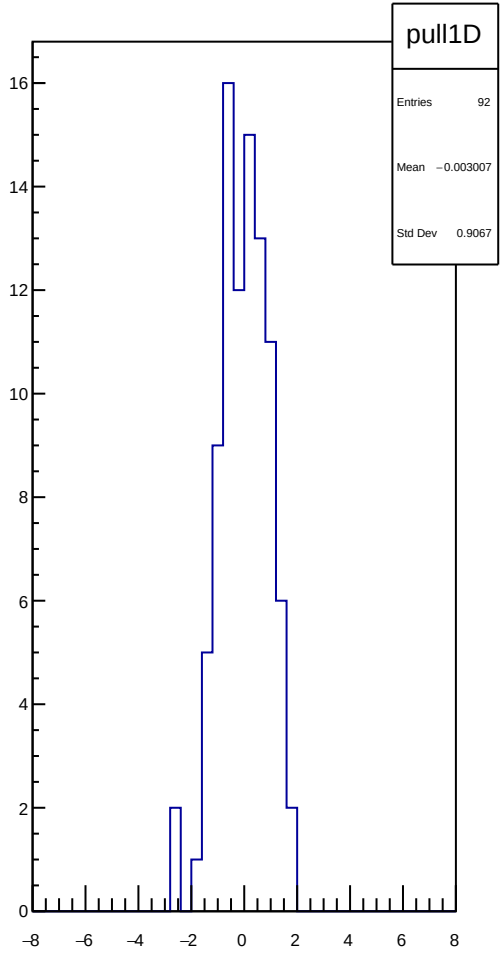

pull1D
Entries 92
Mean −0.003896
Std Dev 0.8282
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

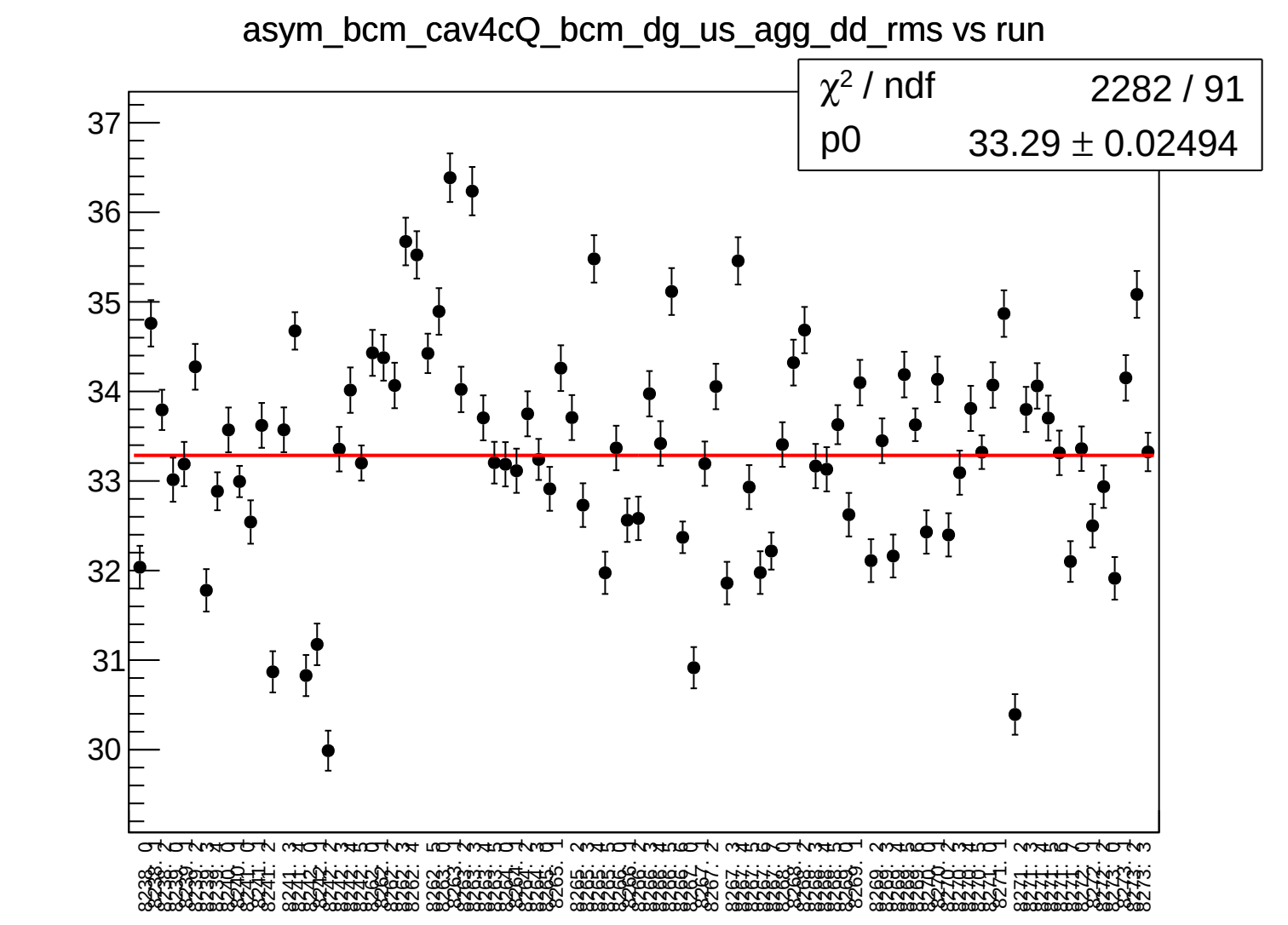

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2830 / 91
p0 27.76 ± 0.02081
31
30
29
28
27
26
25
24

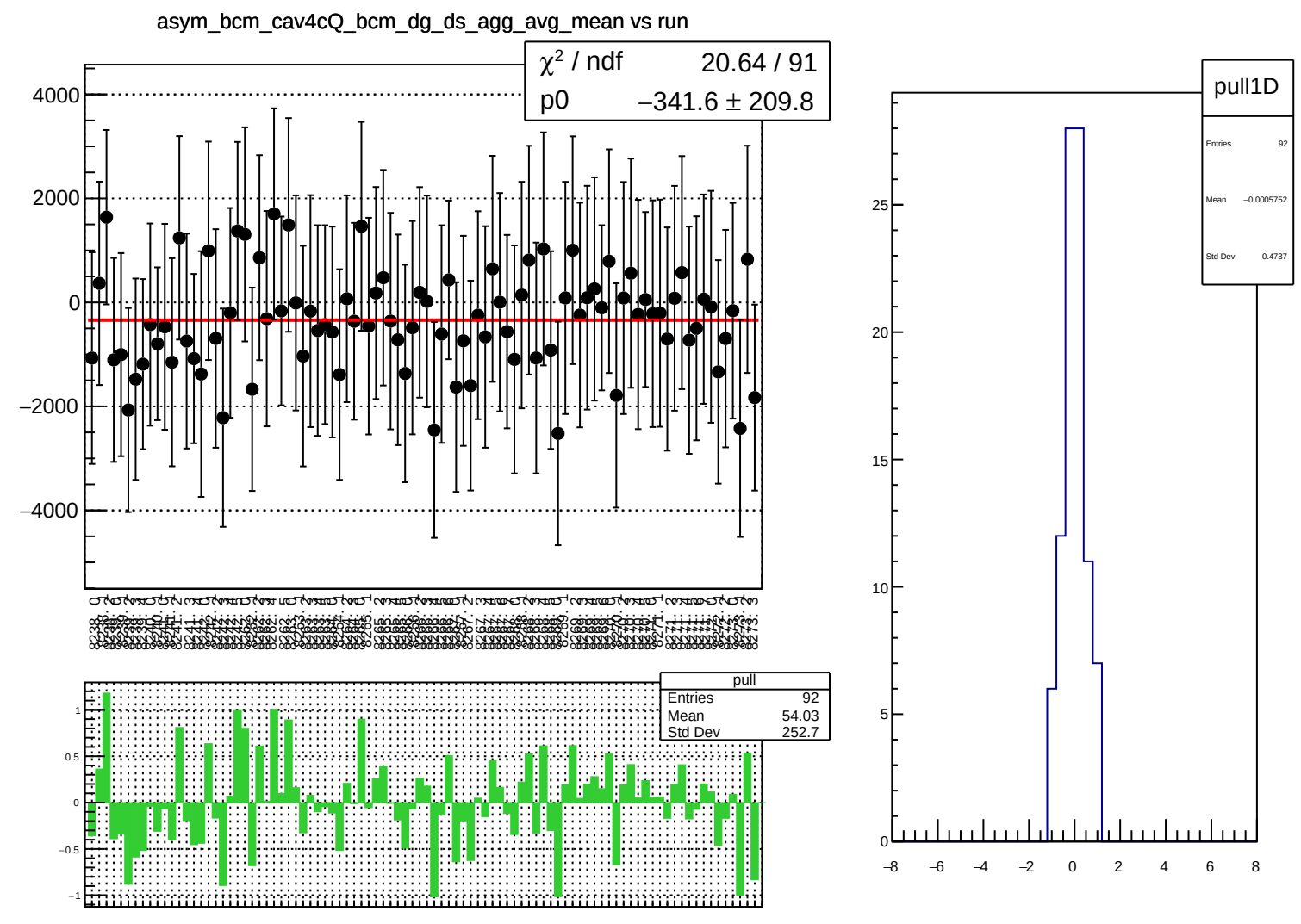

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 22.57 / 91
p0 −360 ± 209.9
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 1341
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean 0.0001489
Std Dev 0.4953
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

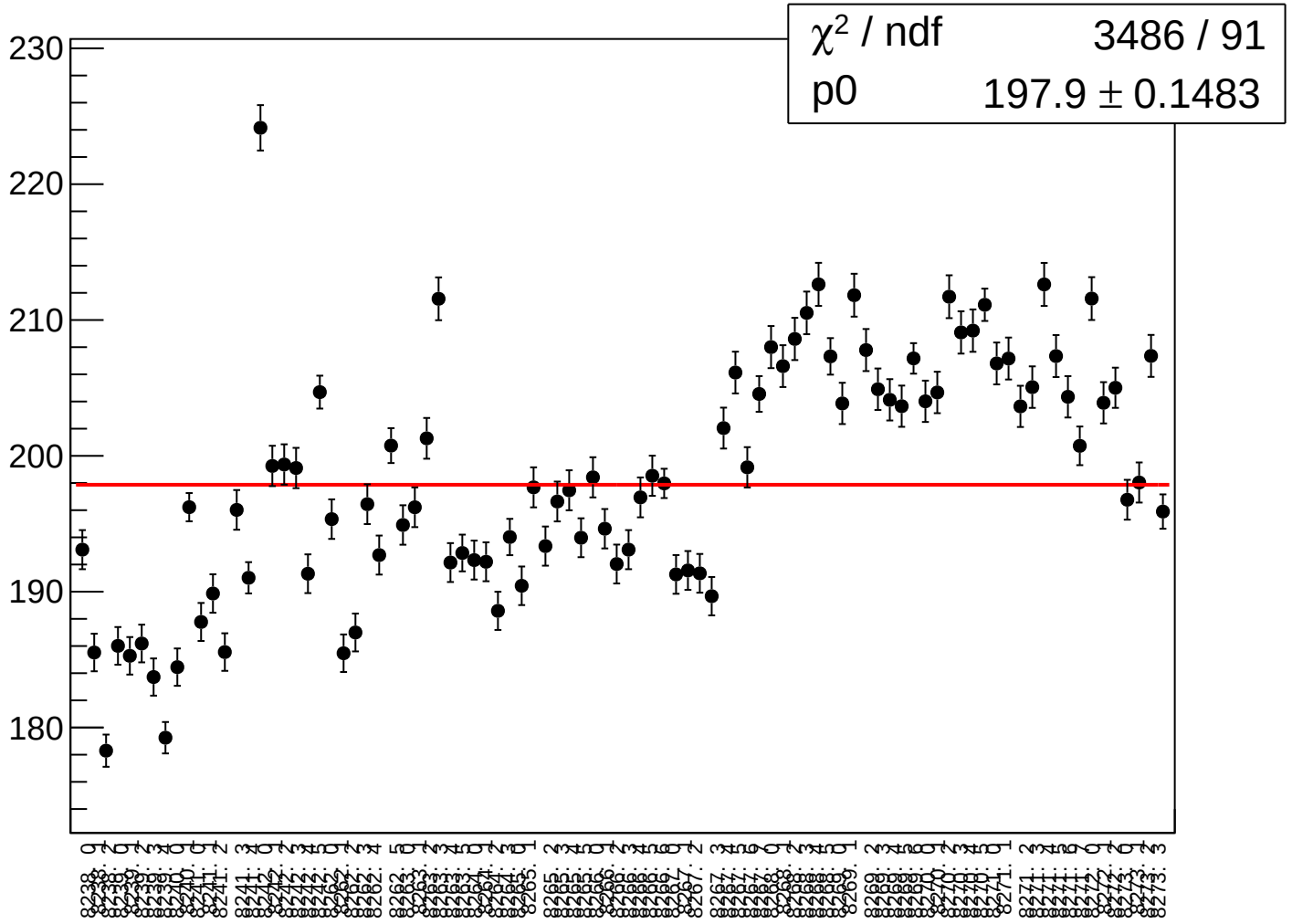

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
$\chi^2$ / ndf 3454 / 91
p0 198 ± 0.1484
230
220
210
200
190
180

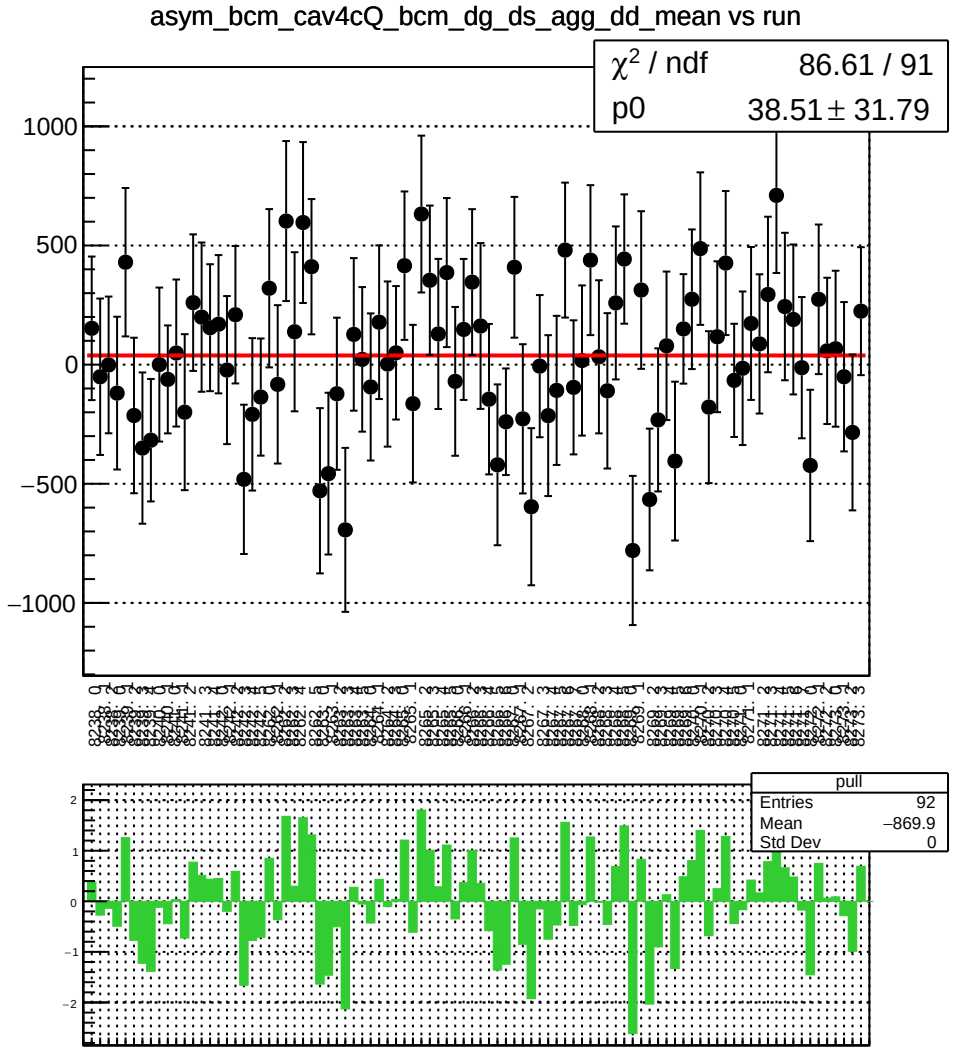

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 75.64 / 91
p0 54.77 ± 35.28
1000
500
0
−500
−1000
pull
Entries 92
Mean −143.4
Std Dev 0
2
1
0
−1
−2

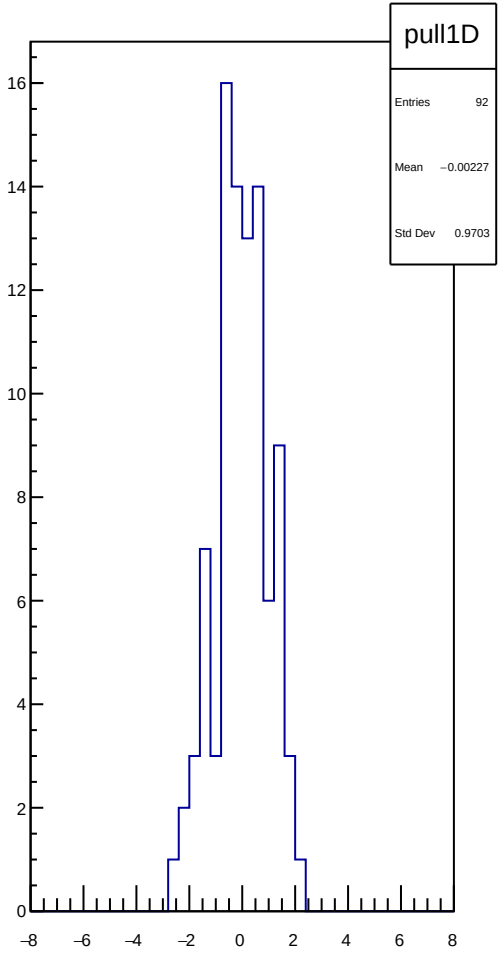

pull1D
Entries 92
Mean −0.003007
Std Dev 0.9067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

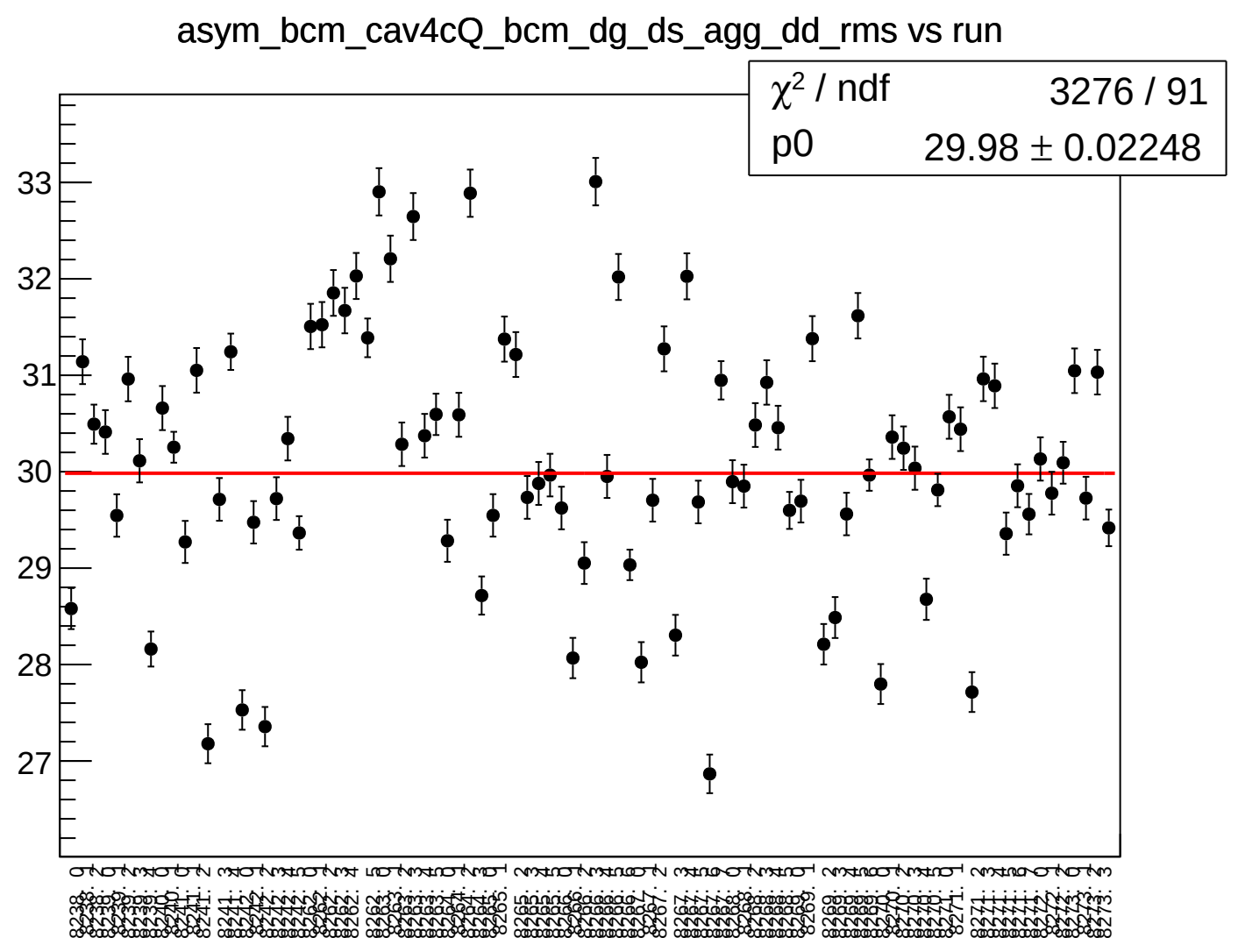

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2282 / 91
p0 33.29 ± 0.02494
37
36
35
34
33
32
31
30

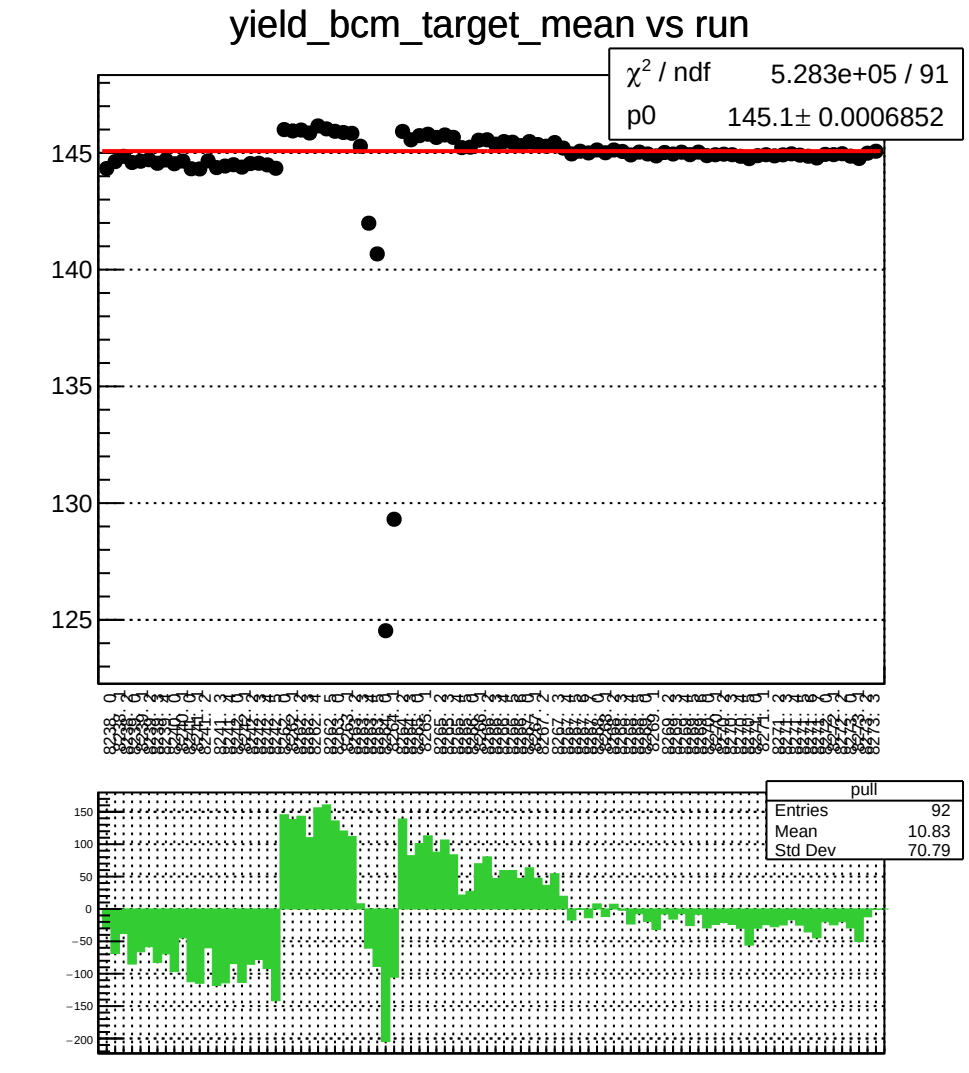

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 20.64 / 91
p0 −341.6 ± 209.8
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 54.03
Std Dev 252.7
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.0005752
Std Dev 0.4737
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

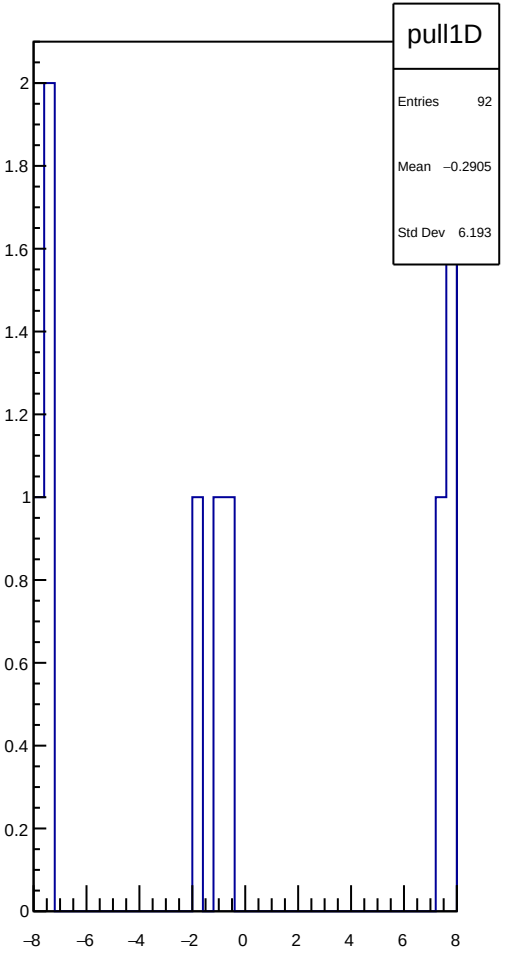

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3486 / 91
p0 197.9 ± 0.1483
230
220
210
200
190
180

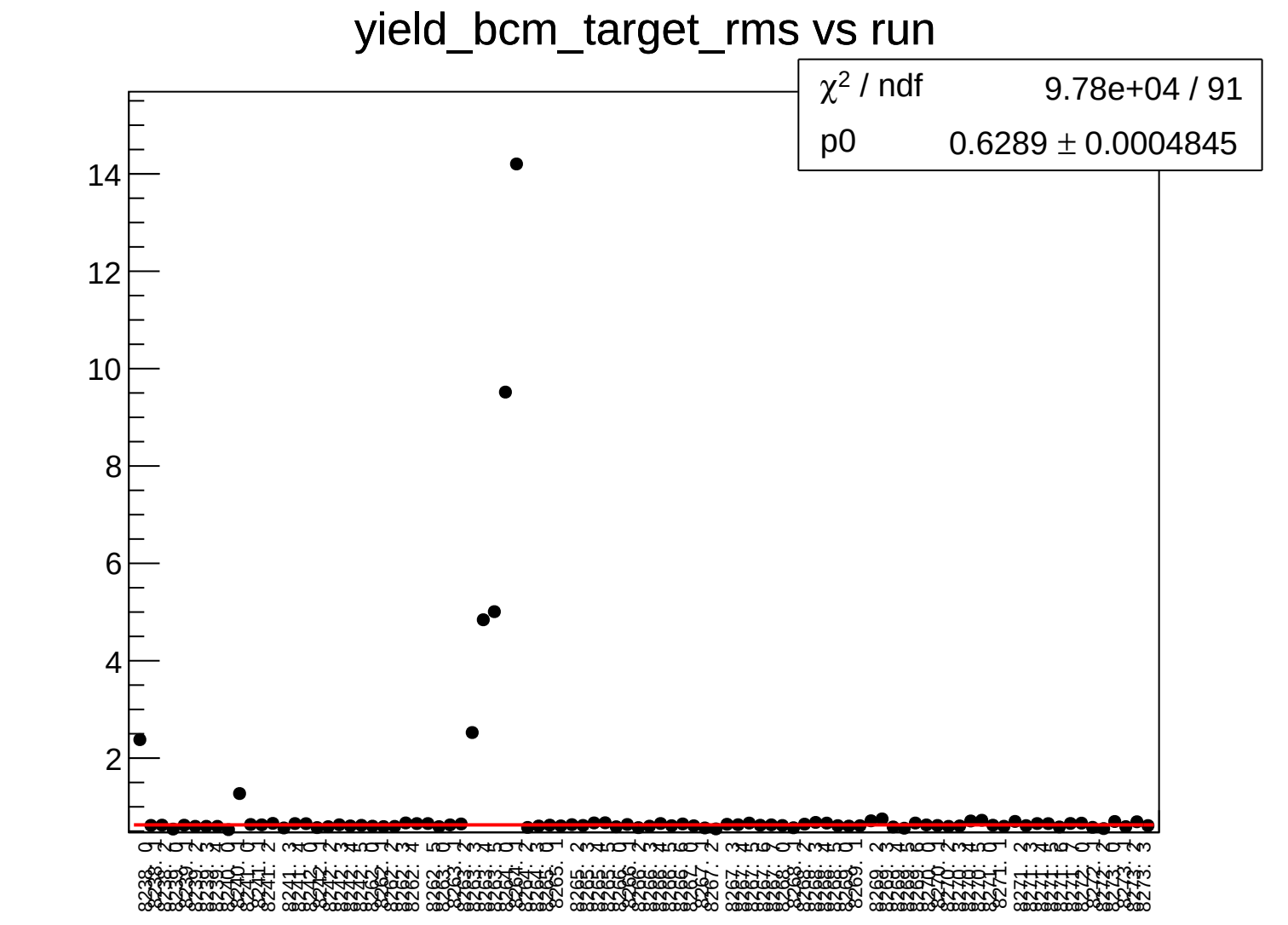

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 86.61 / 91
p0 38.51 ± 31.79
1000
500
0
−500
−1000
pull
Entries 92
Mean −869.9
Std Dev 0
2
1
0
−1
−2

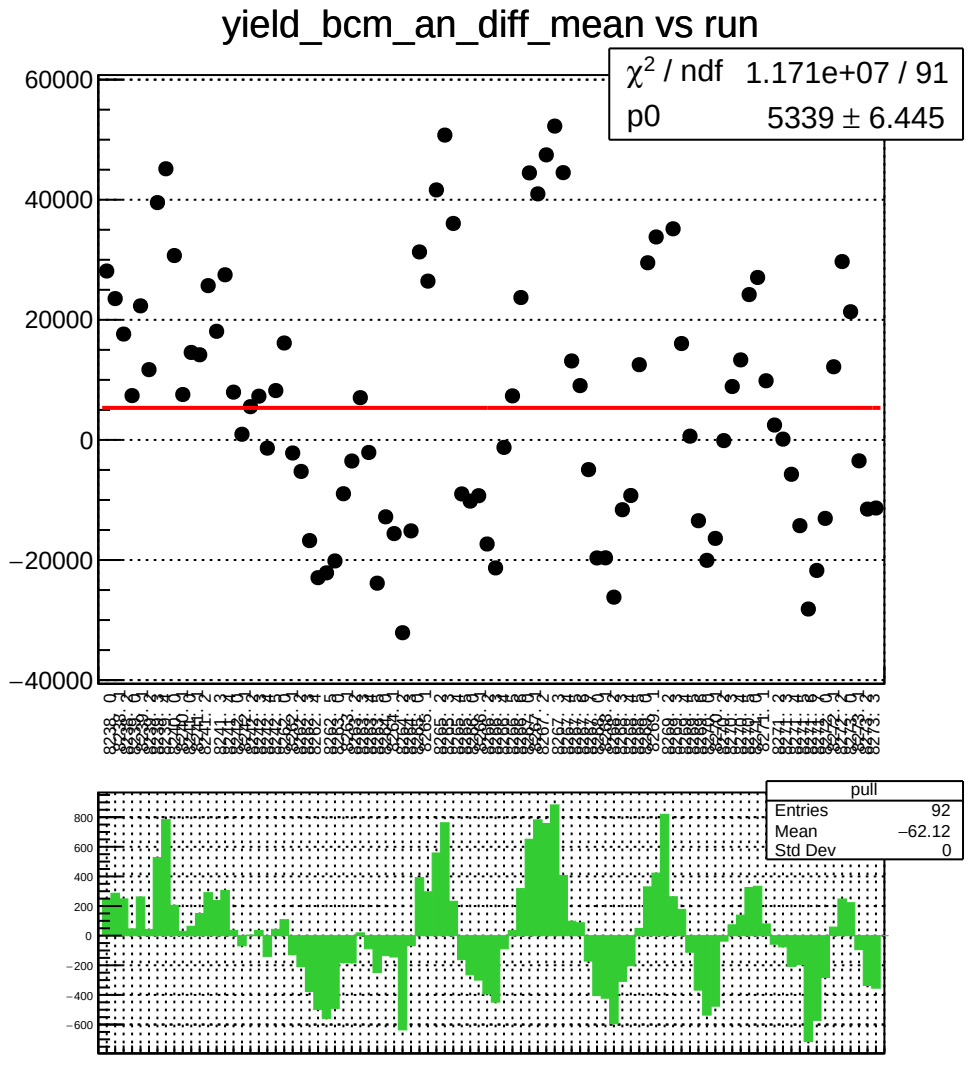

pull1D
Entries 92
Mean −0.00227
Std Dev 0.9703
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

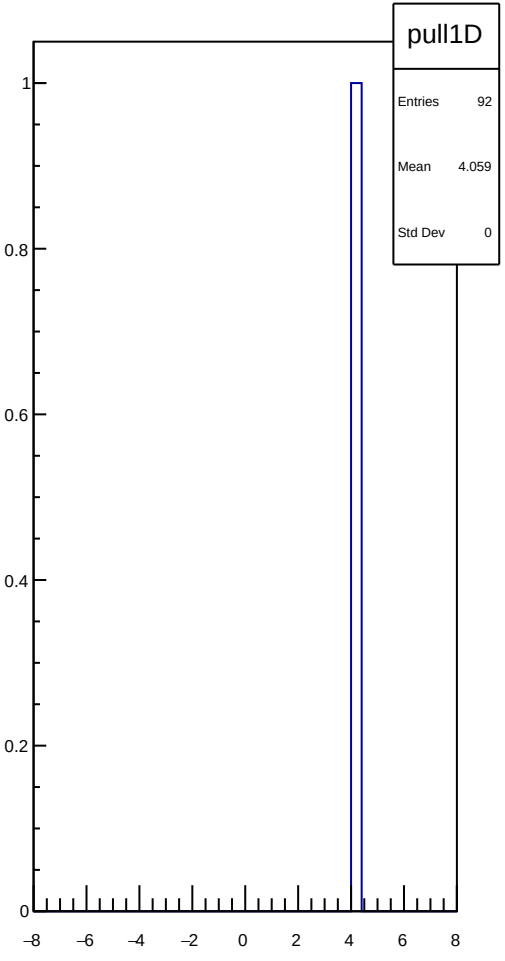

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3276 / 91
p0 29.98 ± 0.02248
33
32
31
30
29
28
27

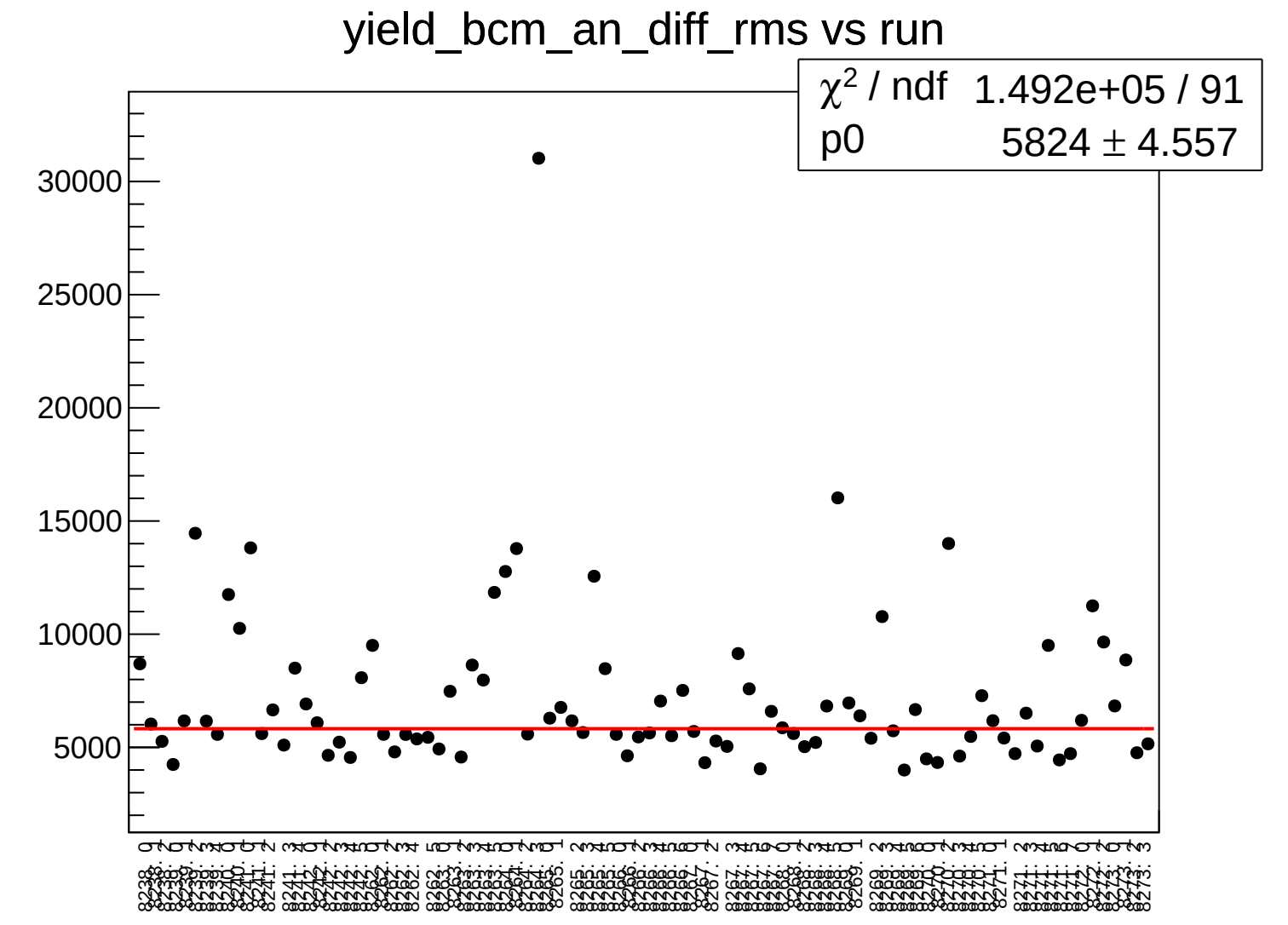

yield_bcm_target_mean vs run
χ² / ndf 5.283e+05 / 91
p0 145.1± 0.0006852
145
140
135
130
125
pull
Entries 92
Mean 10.83
Std Dev 70.79
150
100
50
0
−50
−100
−150
−200

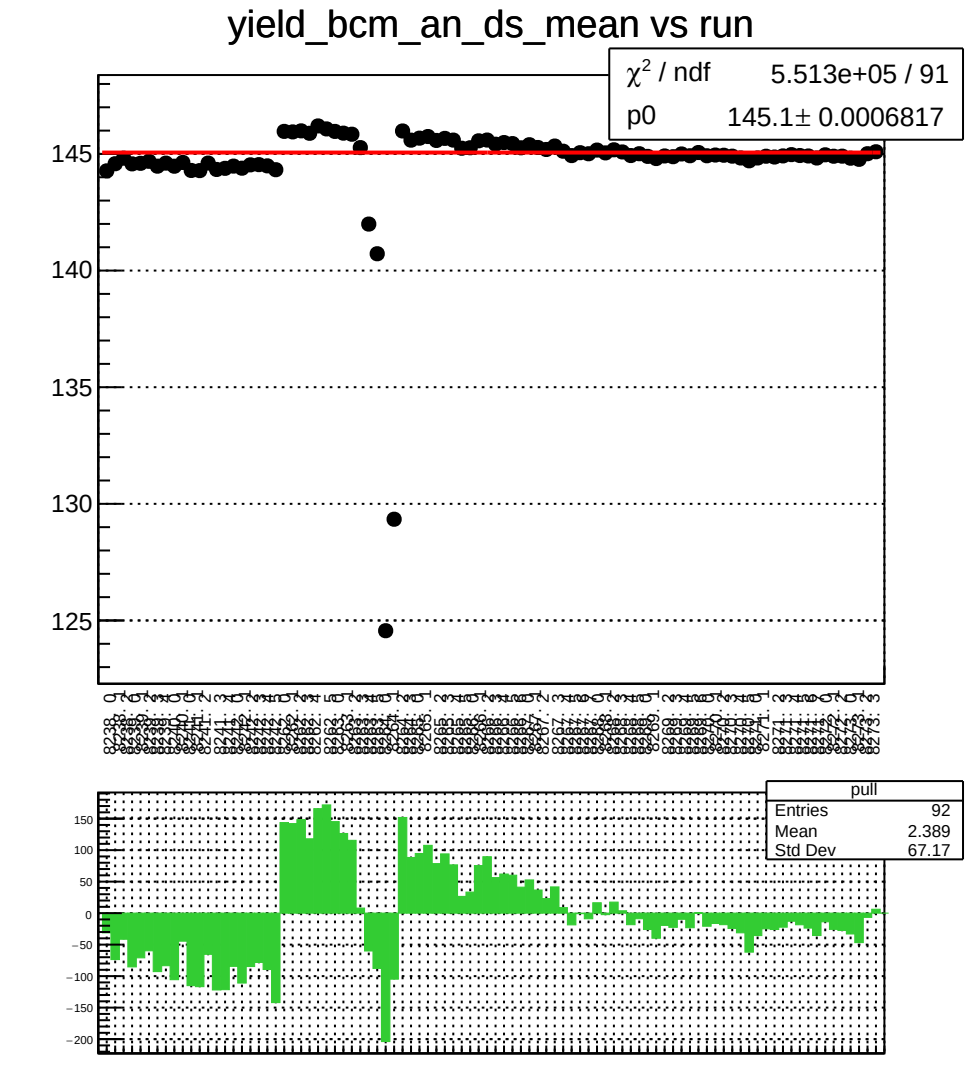

pull1D
Entries 92
Mean −0.2905
Std Dev 6.193
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

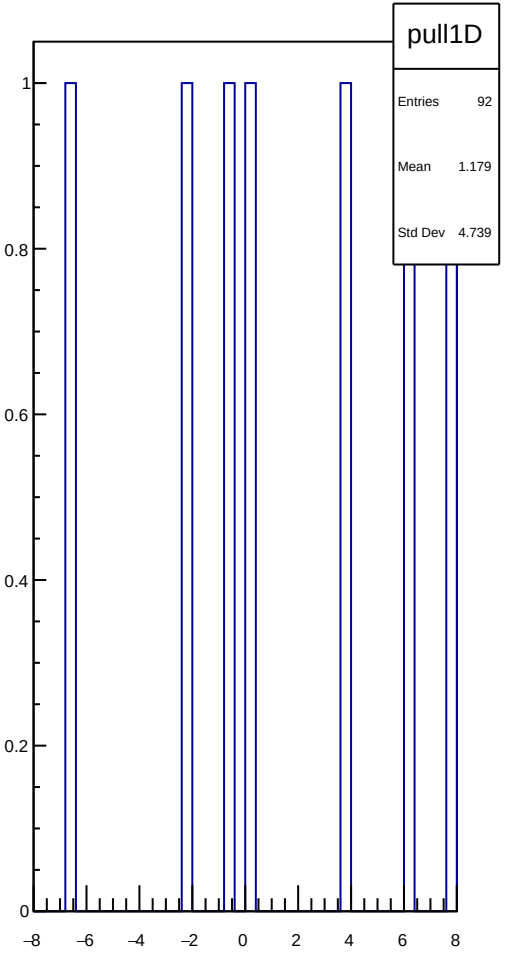

yield_bcm_target_rms vs run
χ² / ndf 9.78e+04 / 91
p0 0.6289 ± 0.0004845
14
12
10
8
6
4
2

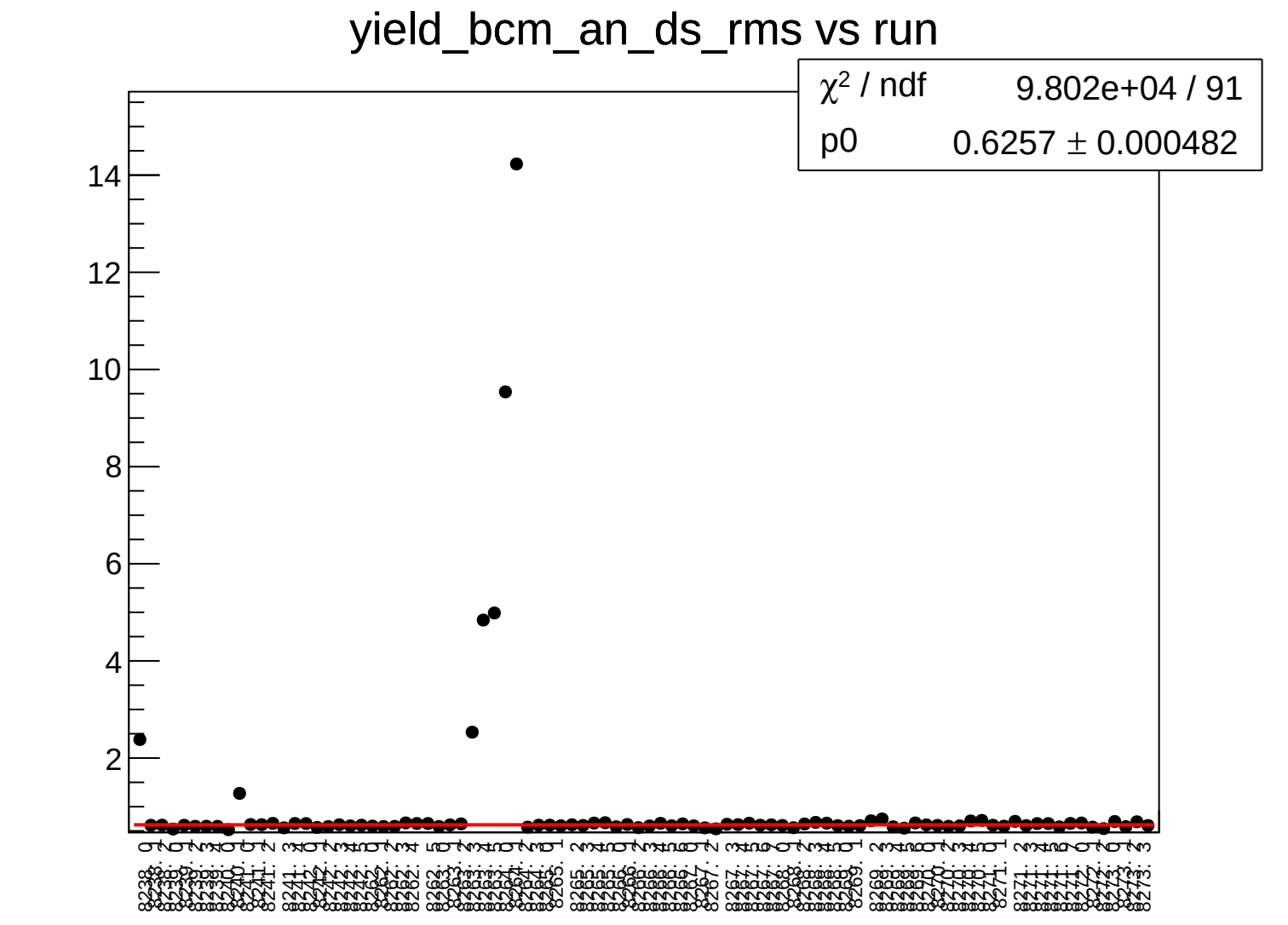

yield_bcm_an_diff_mean vs run
χ² / ndf 1.171e+07 / 91
p0 5339 ± 6.445
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −62.12
Std Dev 0
800
600
400
200
0
−200
−400
−600

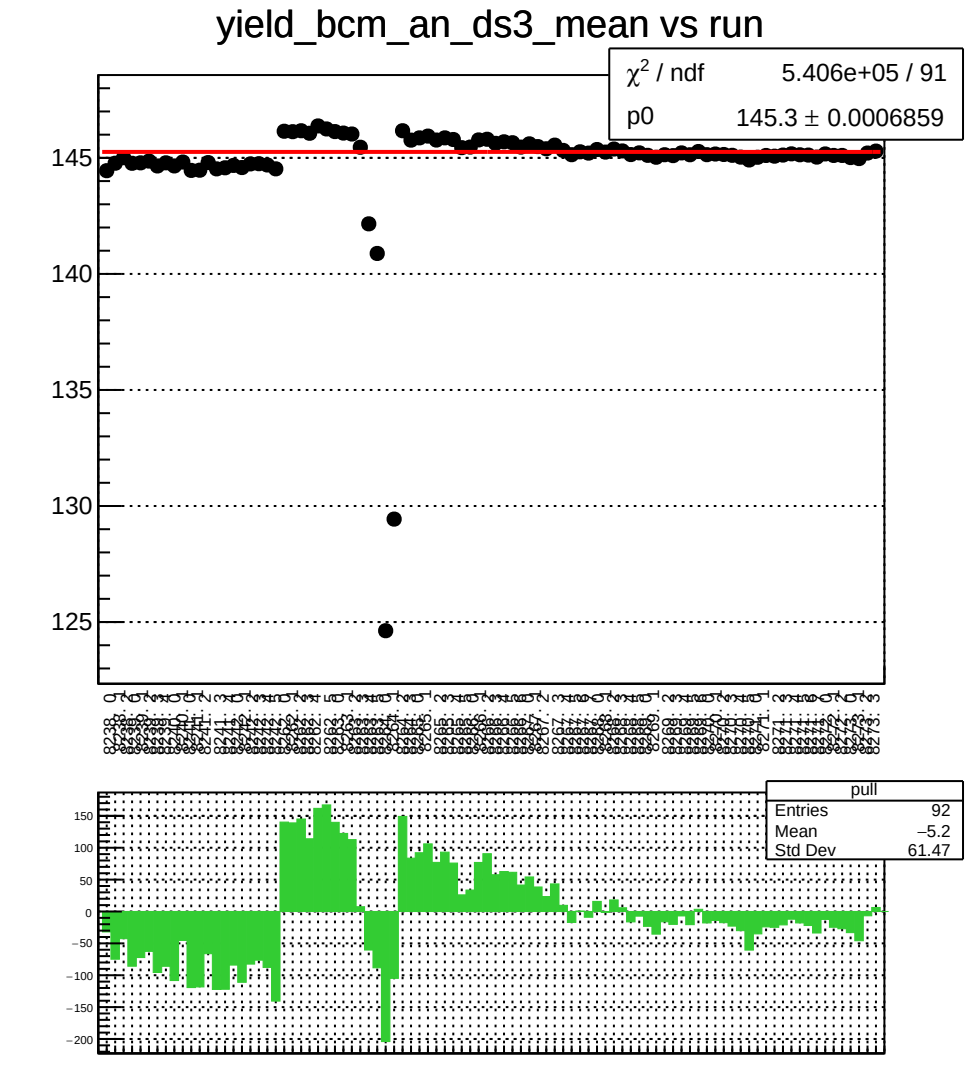

pull1D
Entries 92
Mean 4.059
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

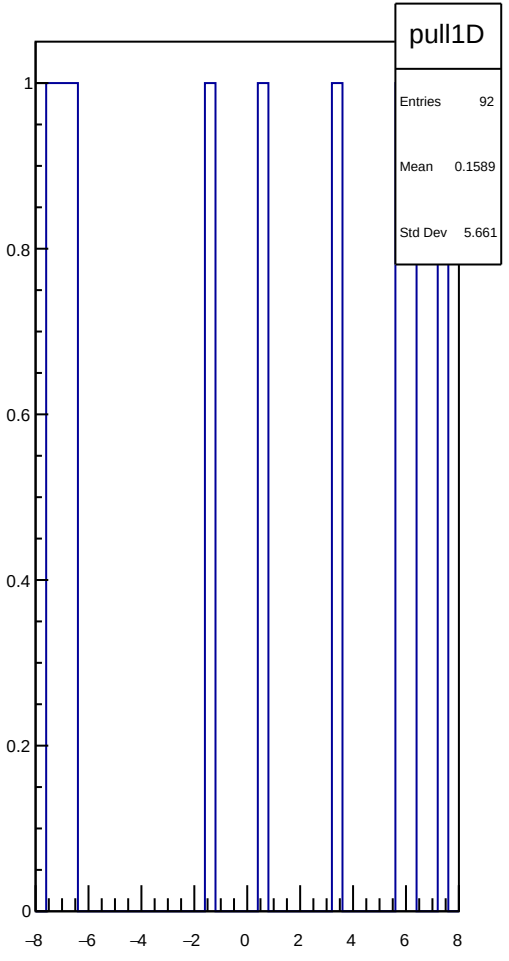

yield_bcm_an_diff_rms vs run
χ² / ndf 1.492e+05 / 91
p0 5824 ± 4.557
30000
25000
20000
15000
10000
5000

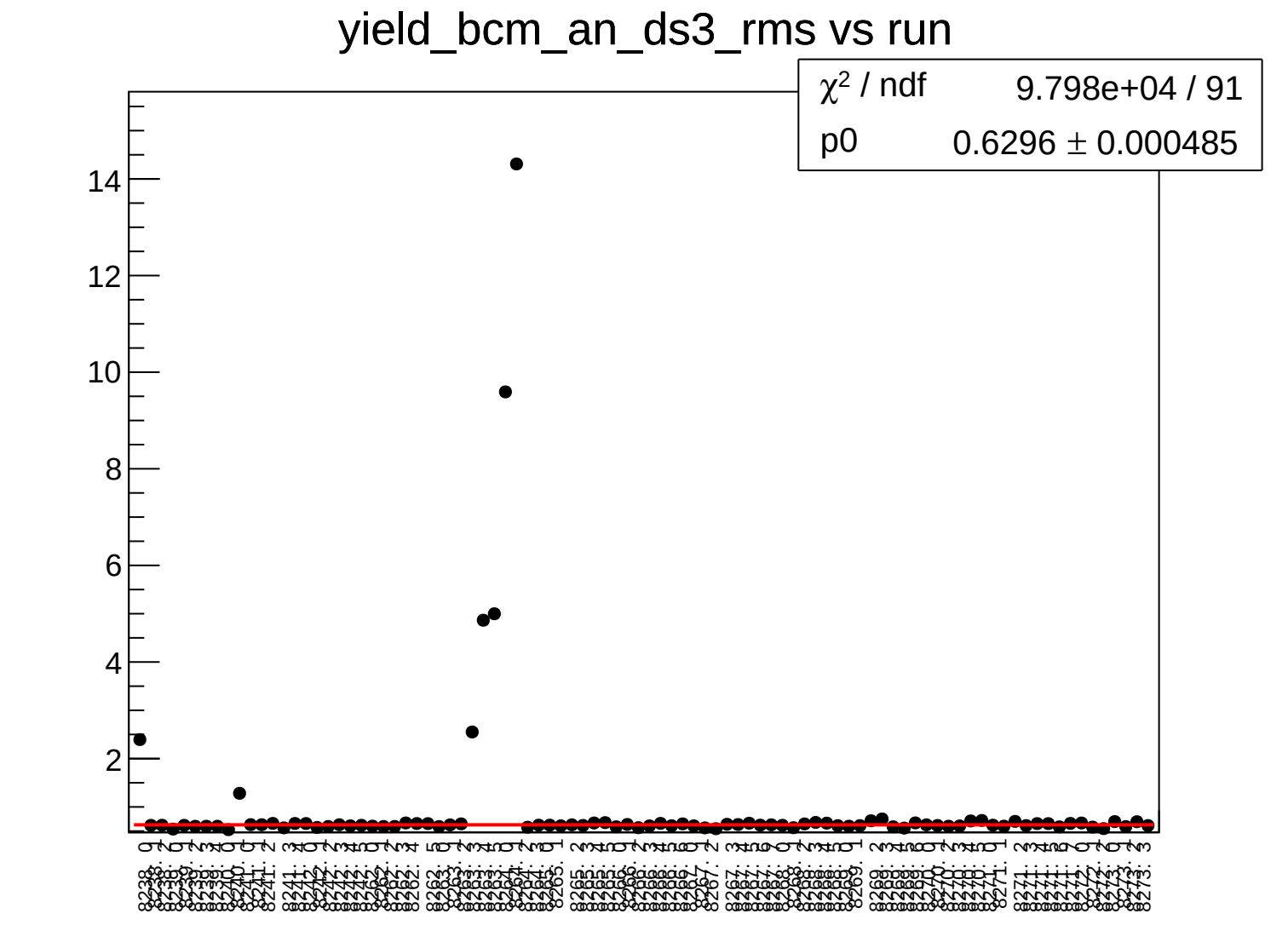

yield_bcm_an_ds_mean vs run
χ² / ndf 5.513e+05 / 91
p0 145.1± 0.0006817
145
140
135
130
125
pull
Entries 92
Mean 2.389
Std Dev 67.17
150
100
50
0
−50
−100
−150
−200

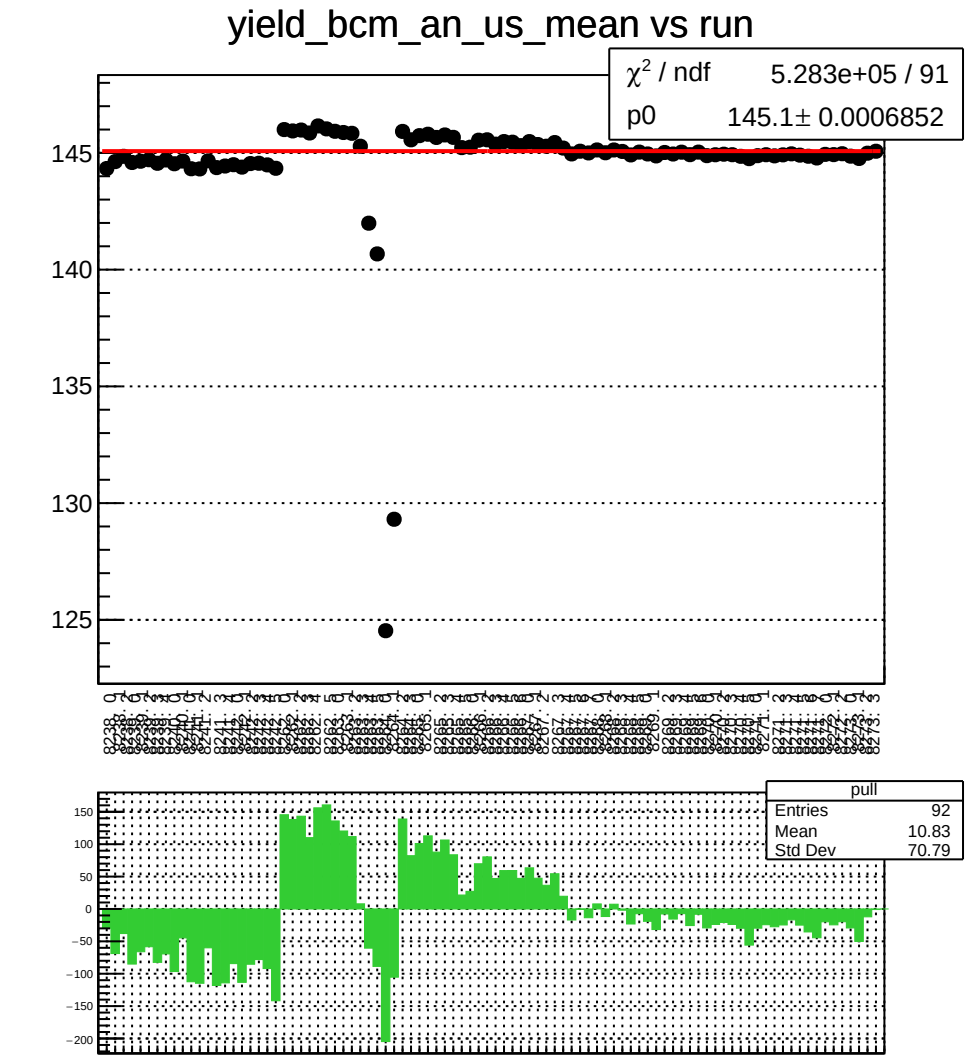

pull1D
Entries 92
Mean 1.179
Std Dev 4.739
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

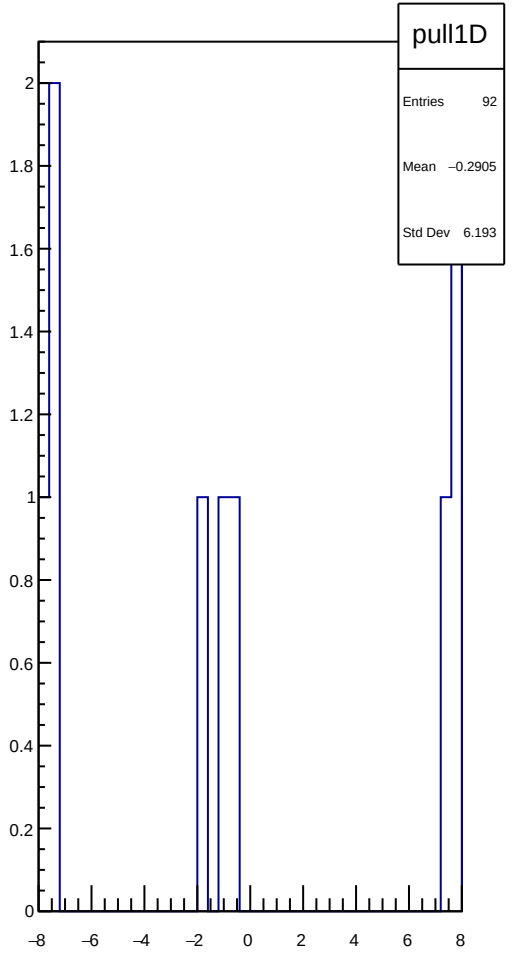

yield_bcm_an_ds_rms vs run
$\chi^2$ / ndf 9.802e+04 / 91
p0 0.6257 ± 0.000482
14
12
10
8
6
4
2

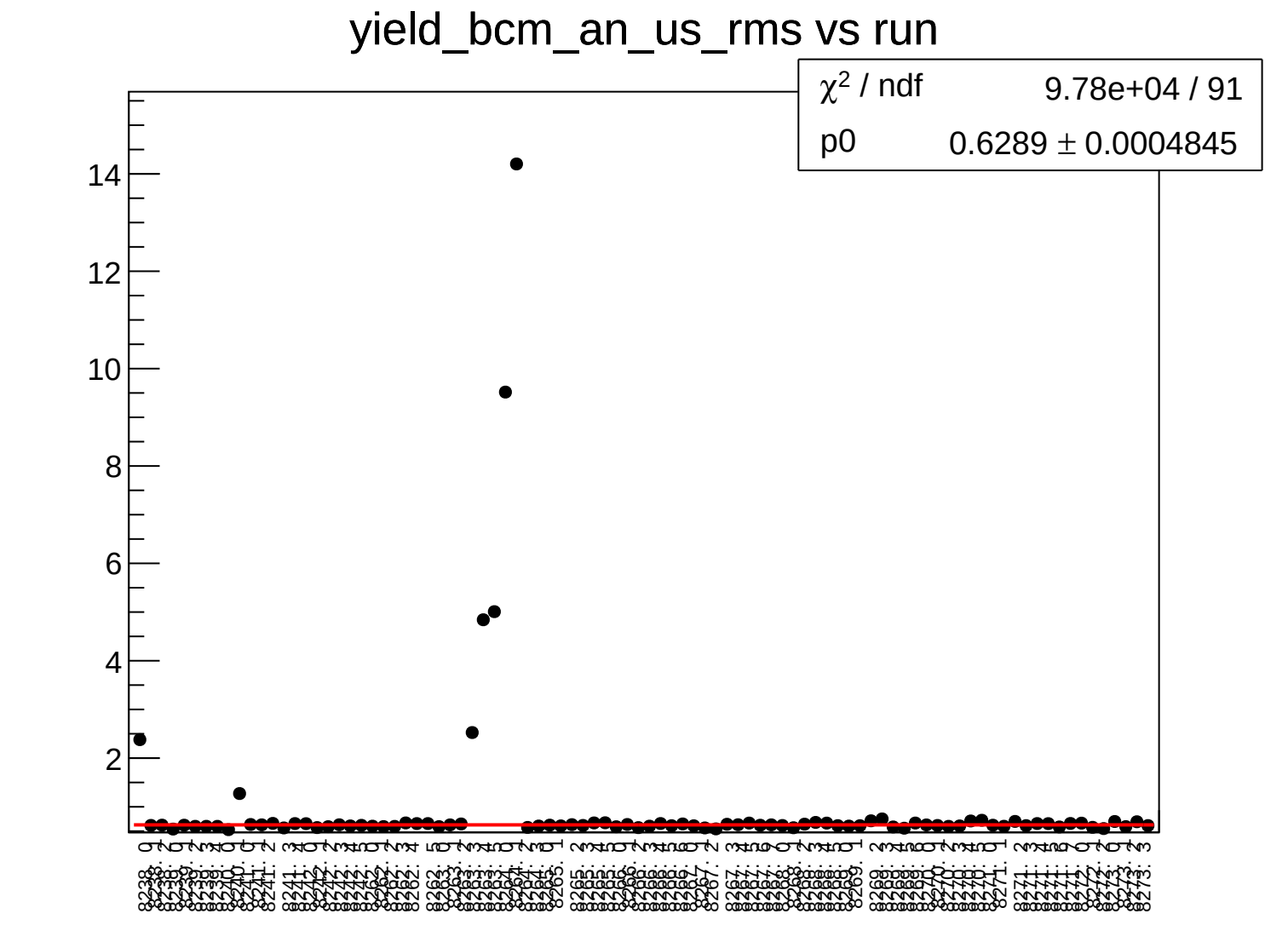

yield_bcm_an_ds3_mean vs run
χ² / ndf 5.406e+05 / 91
p0 145.3 ± 0.0006859
145
140
135
130
125
pull
Entries 92
Mean −5.2
Std Dev 61.47
150
100
50
0
−50
−100
−150
−200

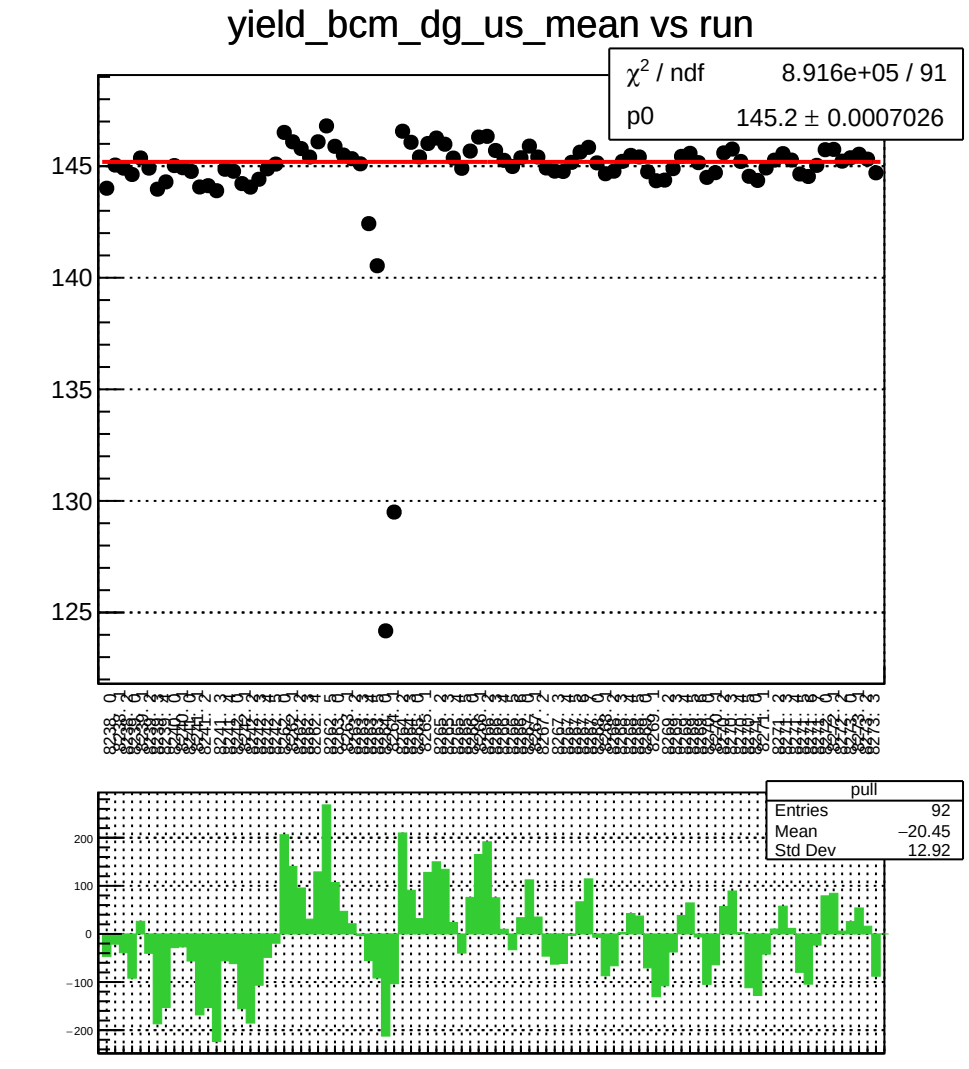

pull1D
Entries 92
Mean 0.1589
Std Dev 5.661
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

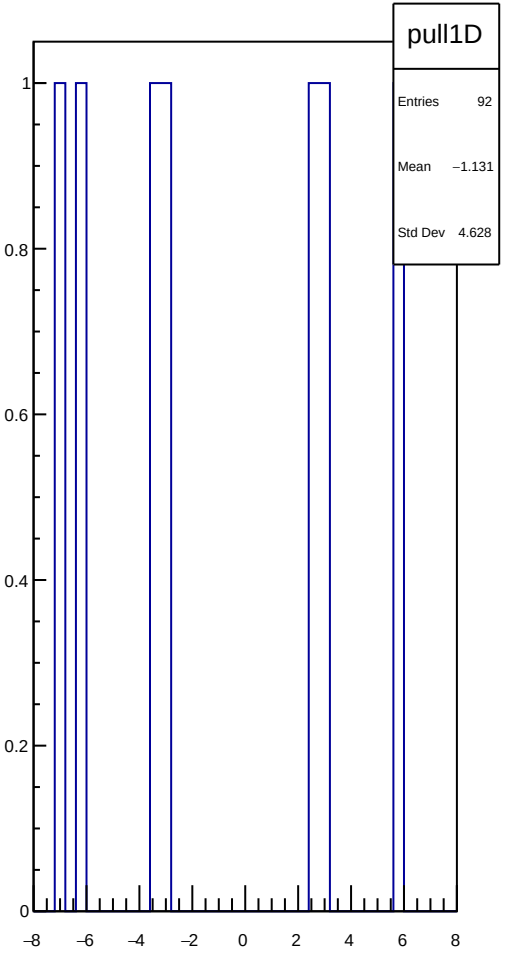

yield_bcm_an_ds3_rms vs run
$\chi^2$ / ndf 9.798e+04 / 91
p0 0.6296 ± 0.000485
14
12
10
8
6
4
2

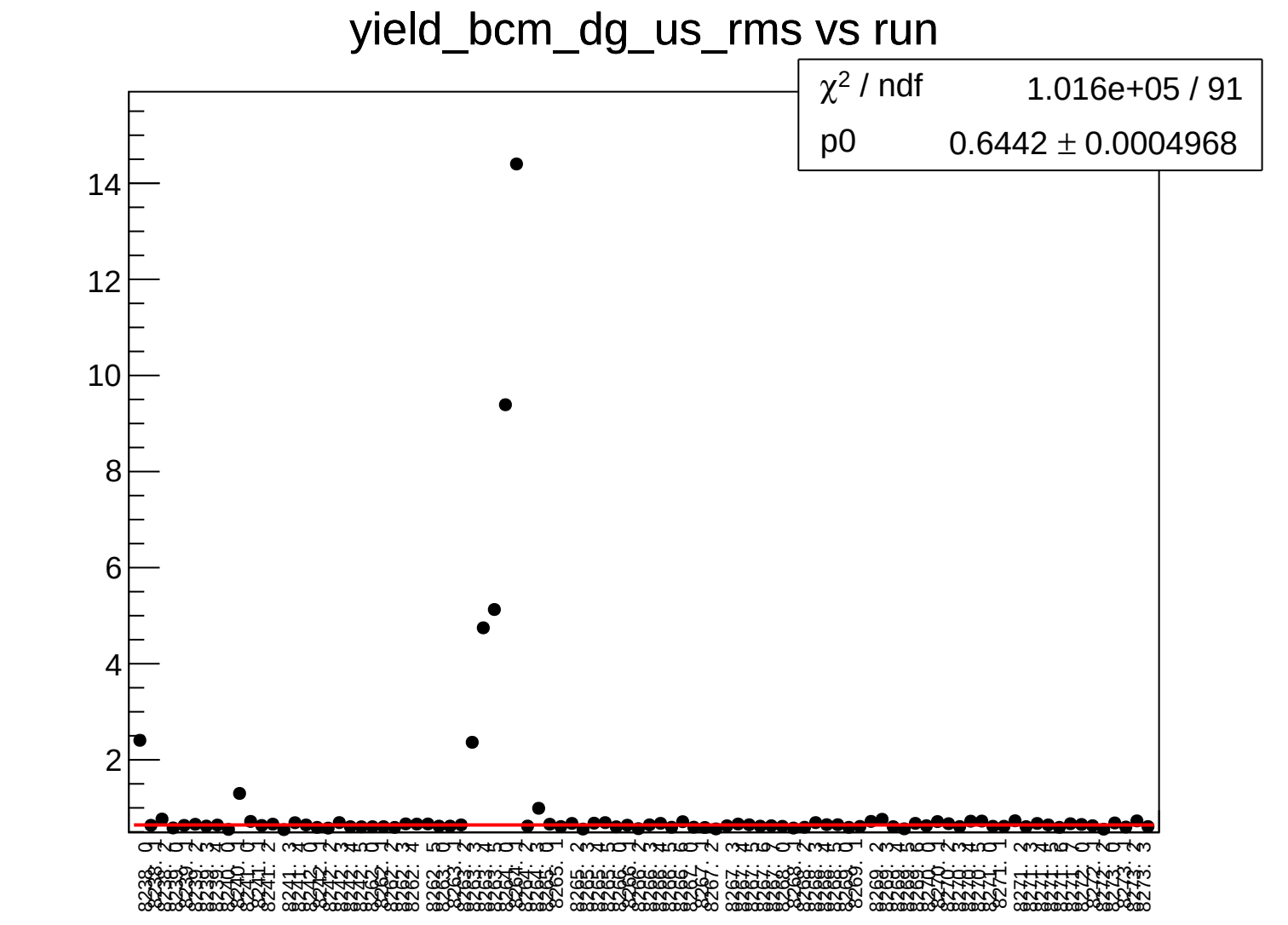

yield_bcm_an_us_mean vs run
χ² / ndf 5.283e+05 / 91
p0 145.1± 0.0006852
145
140
135
130
125
pull
Entries 92
Mean 10.83
Std Dev 70.79
150
100
50
0
−50
−100
−150
−200

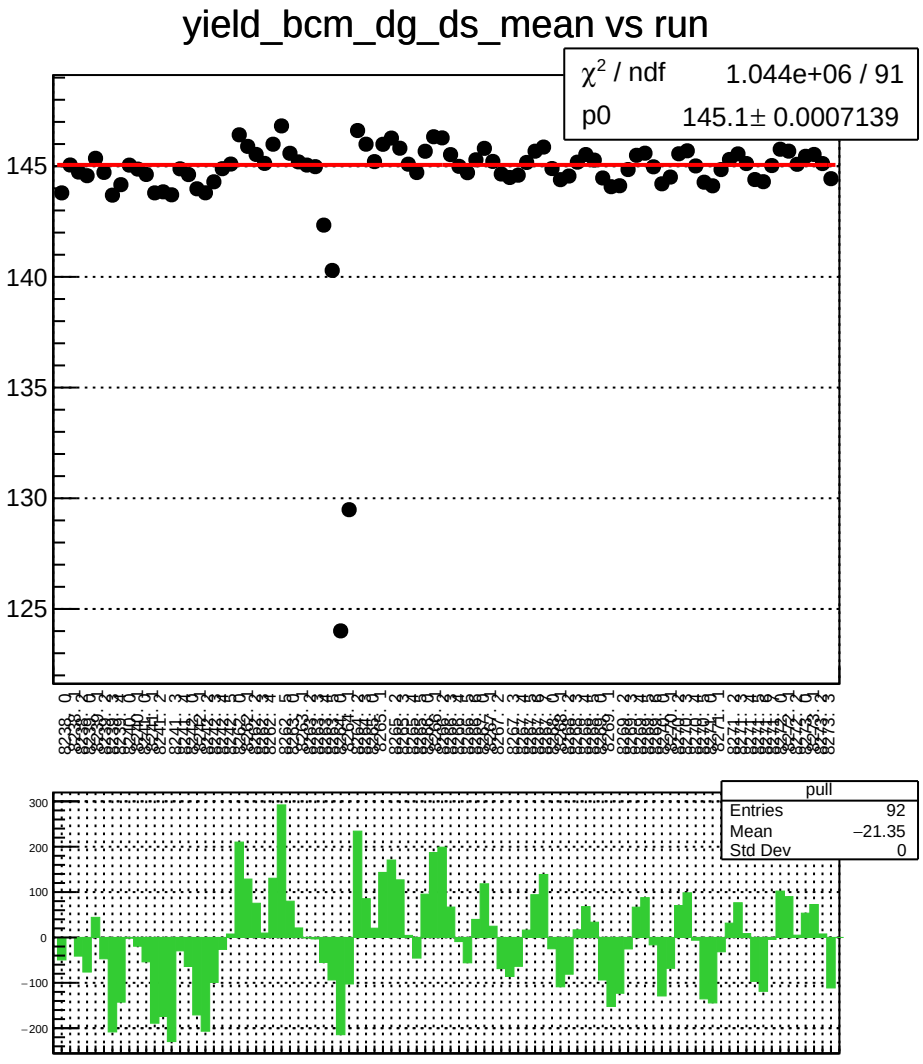

pull1D
Entries 92
Mean −0.2905
Std Dev 6.193
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

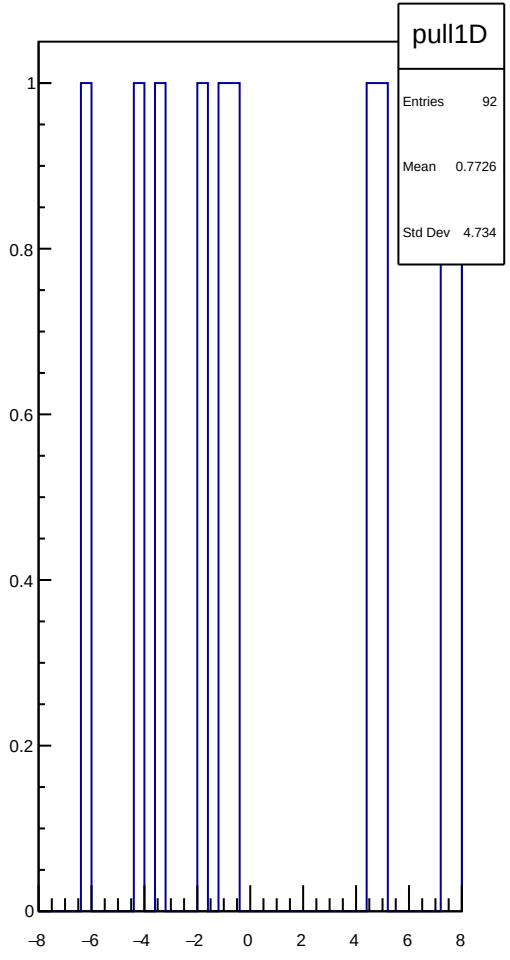

yield_bcm_an_us_rms vs run
χ² / ndf 9.78e+04 / 91
p0 0.6289 ± 0.0004845
14
12
10
8
6
4
2

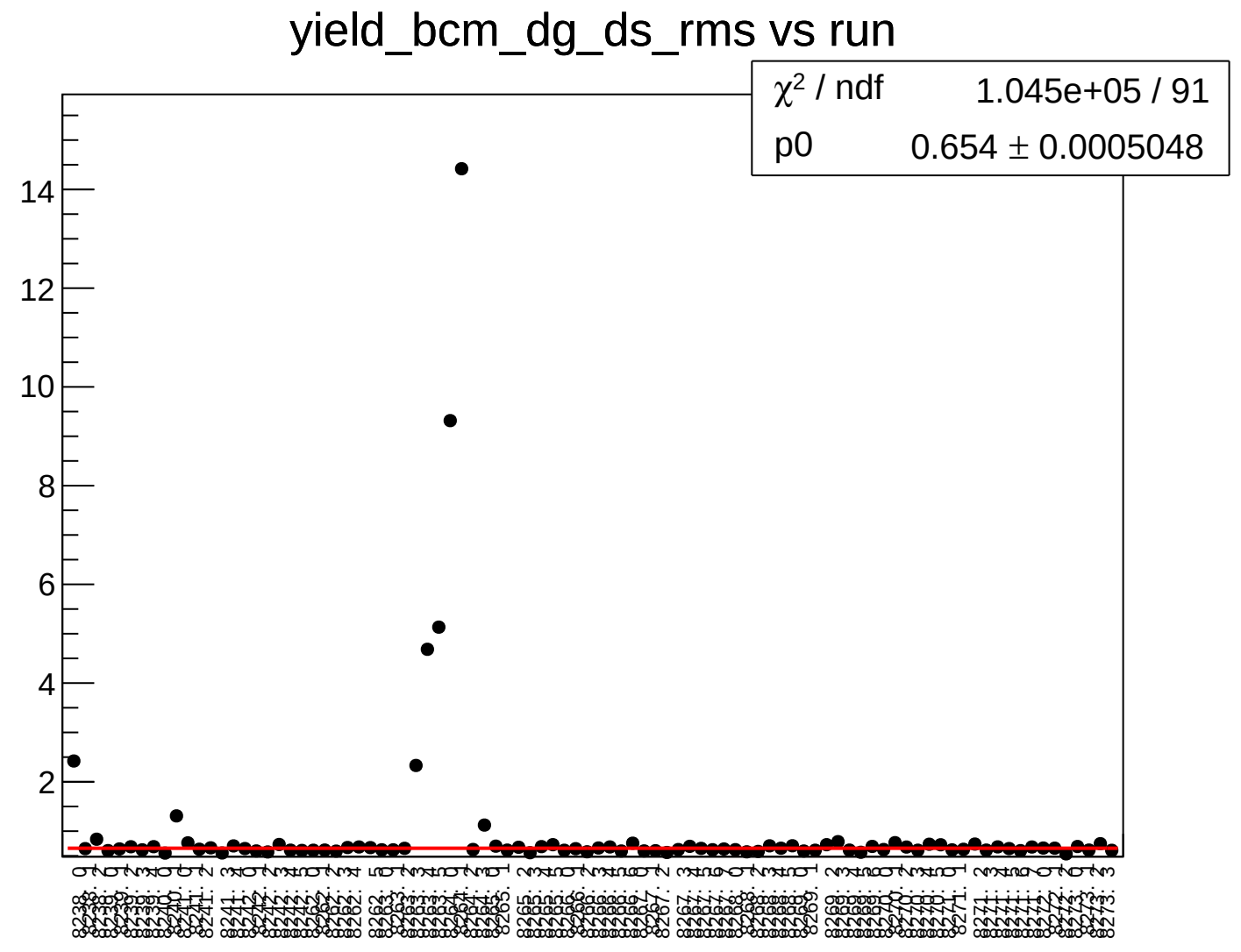

yield_bcm_dg_us_mean vs run
χ² / ndf 8.916e+05 / 91
p0 145.2 ± 0.0007026
145
140
135
130
125
pull
Entries 92
Mean −20.45
Std Dev 12.92
200
100
0
−100
−200

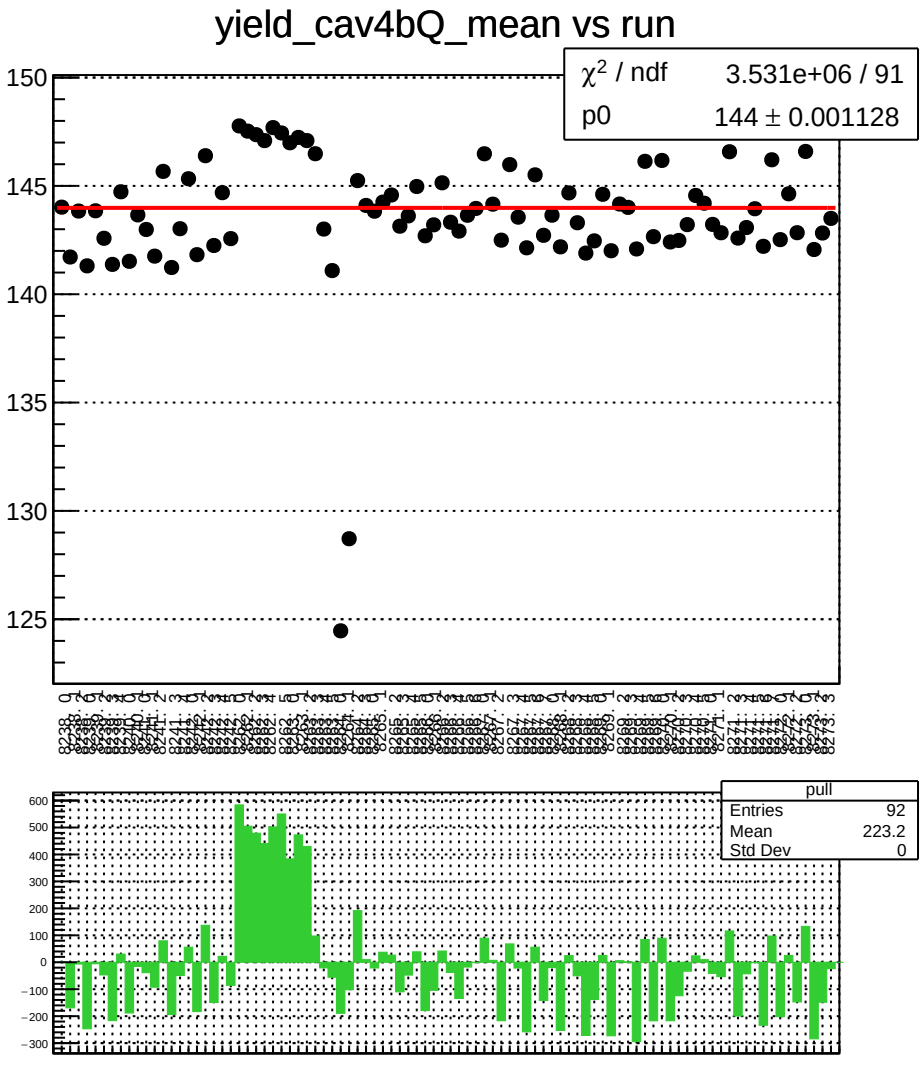

pull1D
Entries 92
Mean −1.131
Std Dev 4.628
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

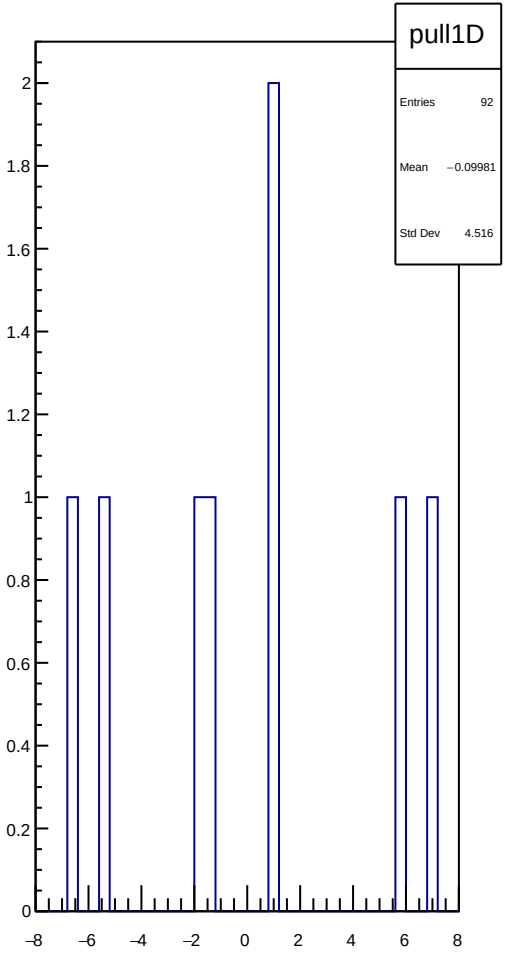

yield_bcm_dg_us_rms vs run
χ² / ndf 1.016e+05 / 91
p0 0.6442 ± 0.0004968
14
12
10
8
6
4
2

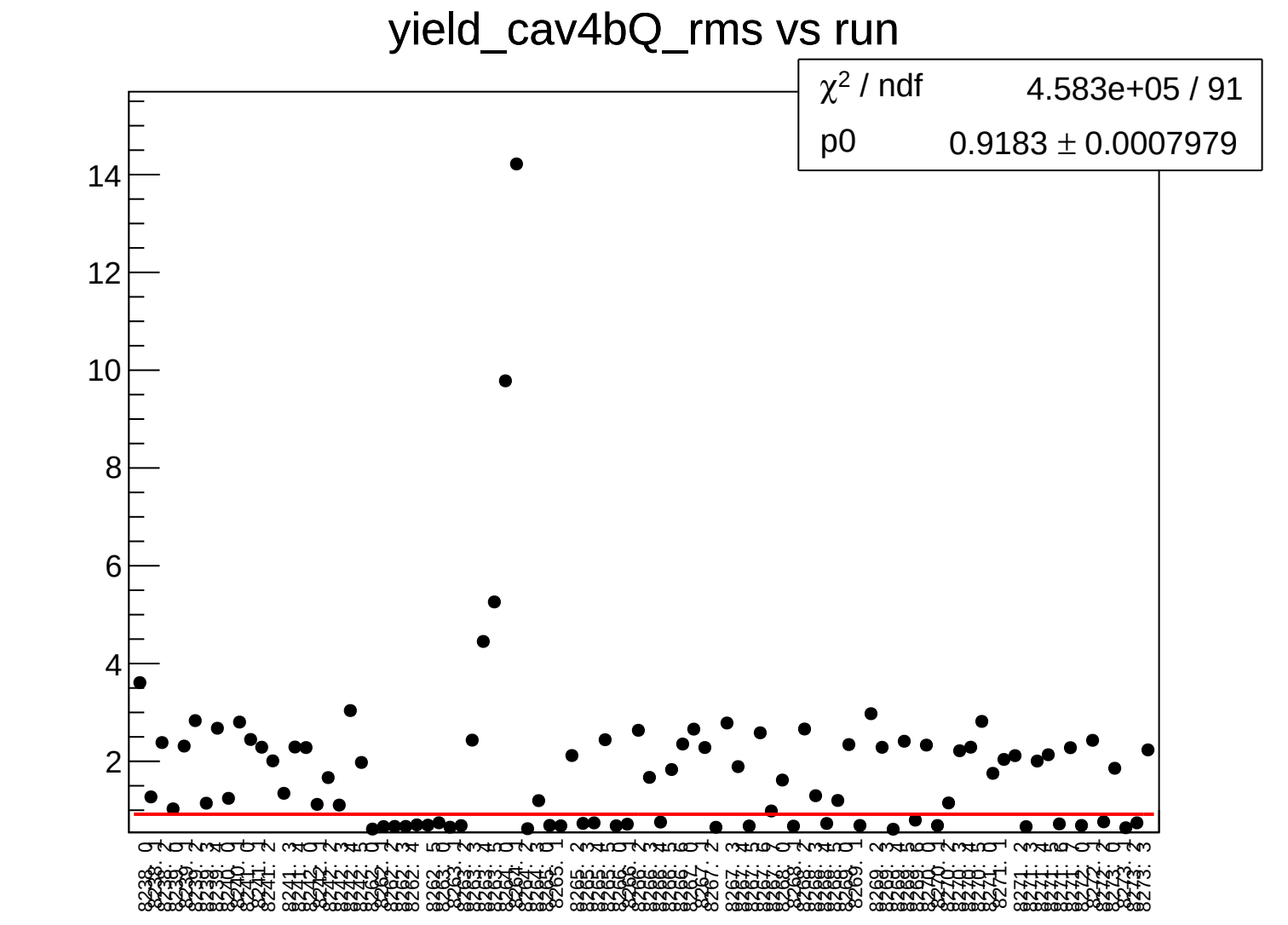

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.044e+06 / 91
p0 145.1± 0.0007139
145
140
135
130
125
pull
Entries 92
Mean −21.35
Std Dev 0
300
200
100
0
−100
−200

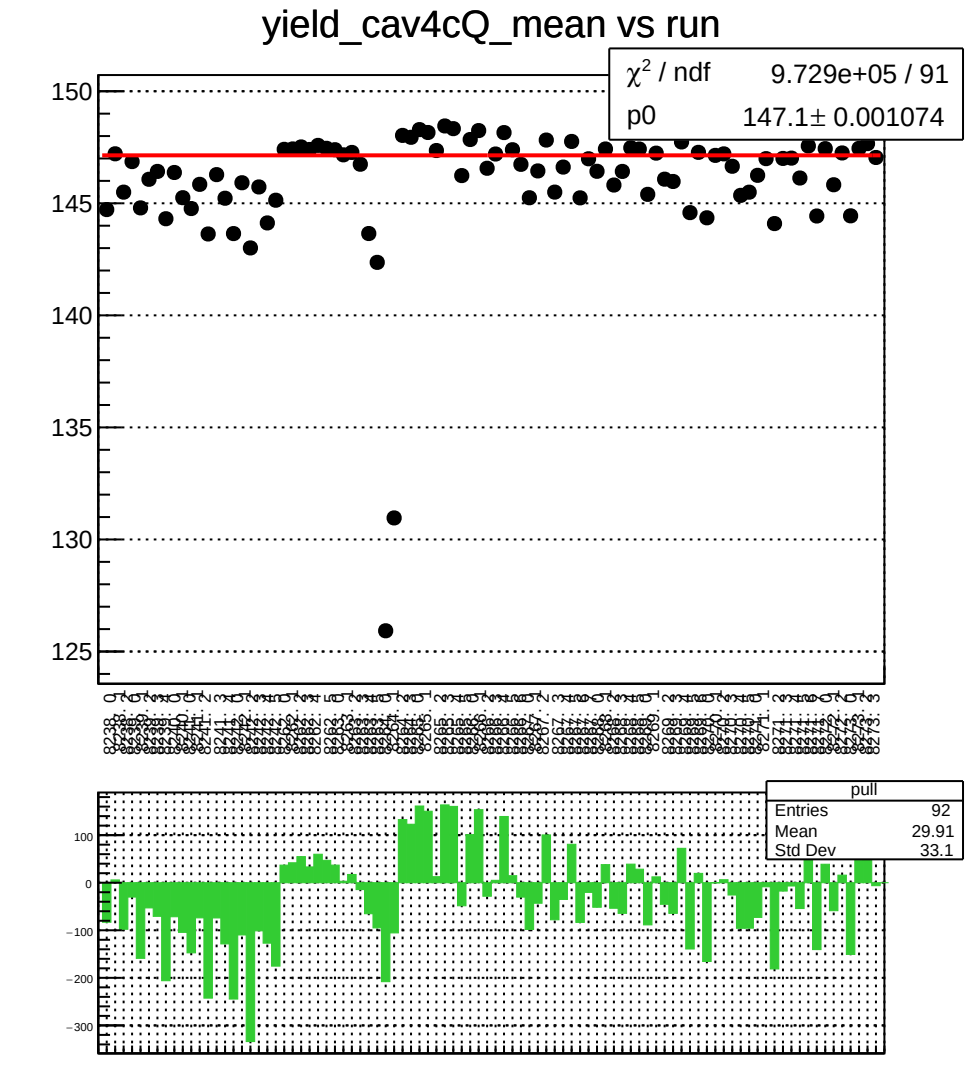

pull1D
Entries 92
Mean 0.7726
Std Dev 4.734
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

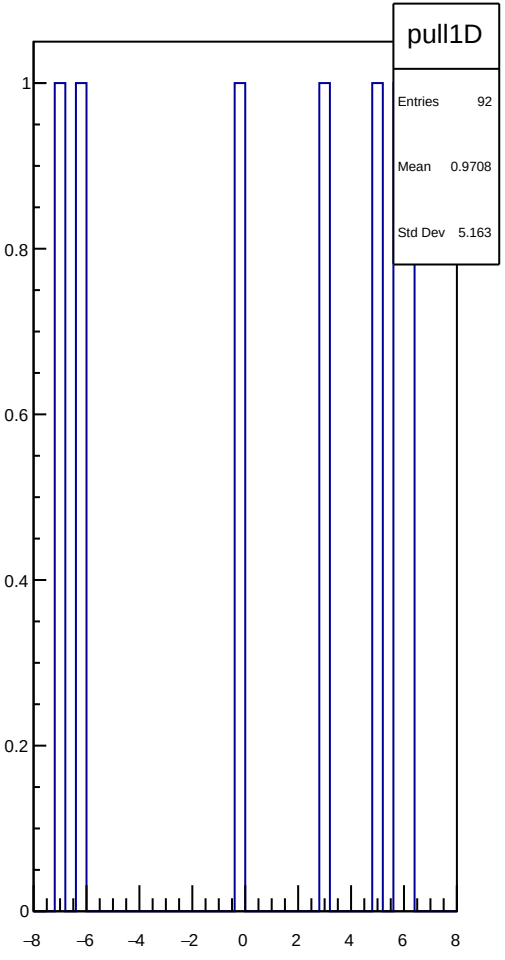

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.045e+05 / 91
p0 0.654 ± 0.0005048
14
12
10
8
6
4
2

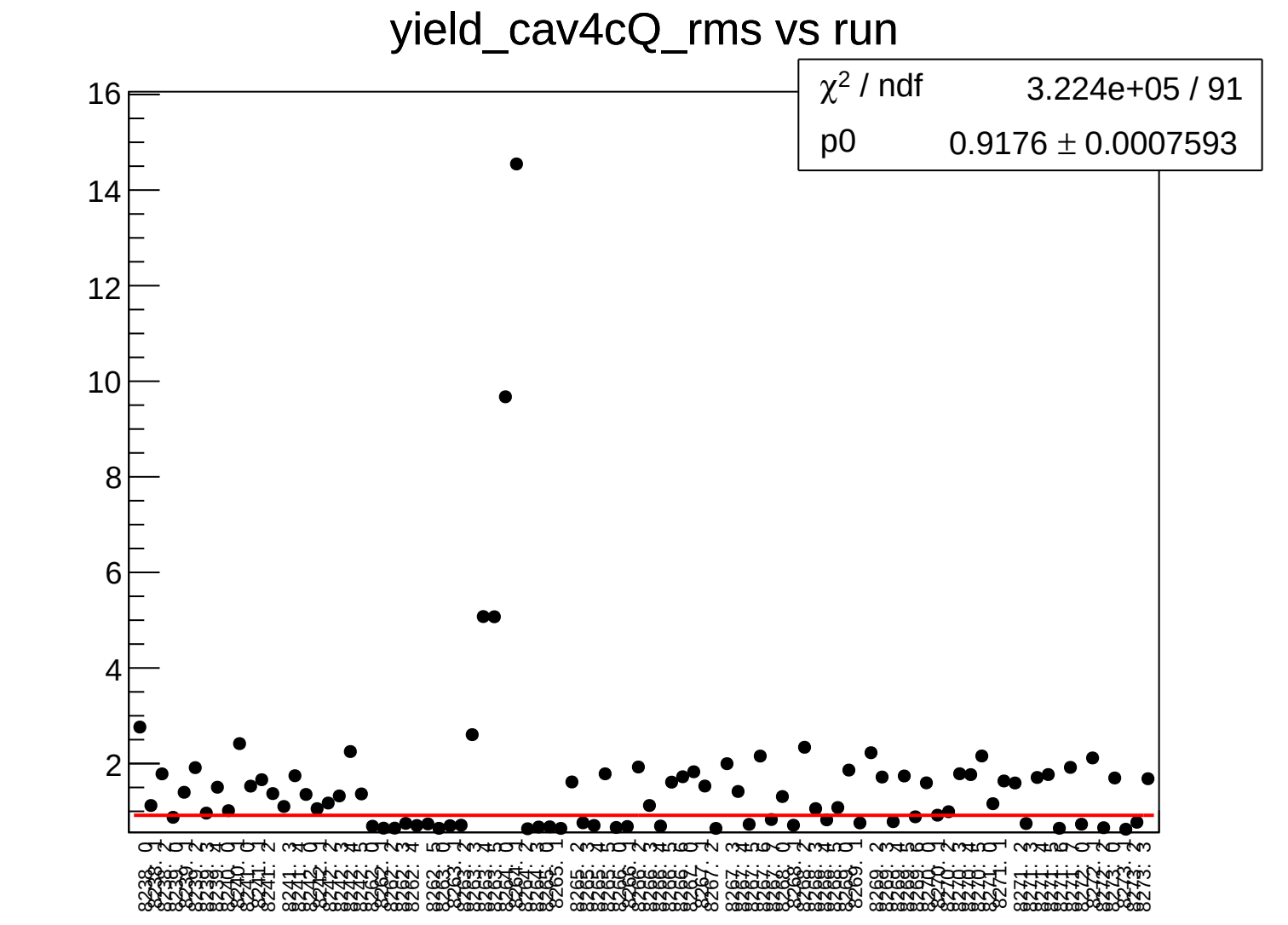

yield_cav4bQ_mean vs run
χ² / ndf 3.531e+06 / 91
p0 144 ± 0.001128
150
145
140
135
130
125
pull
Entries 92
Mean 223.2
Std Dev 0
600
500
400
300
200
100
0
−100
−200
−300

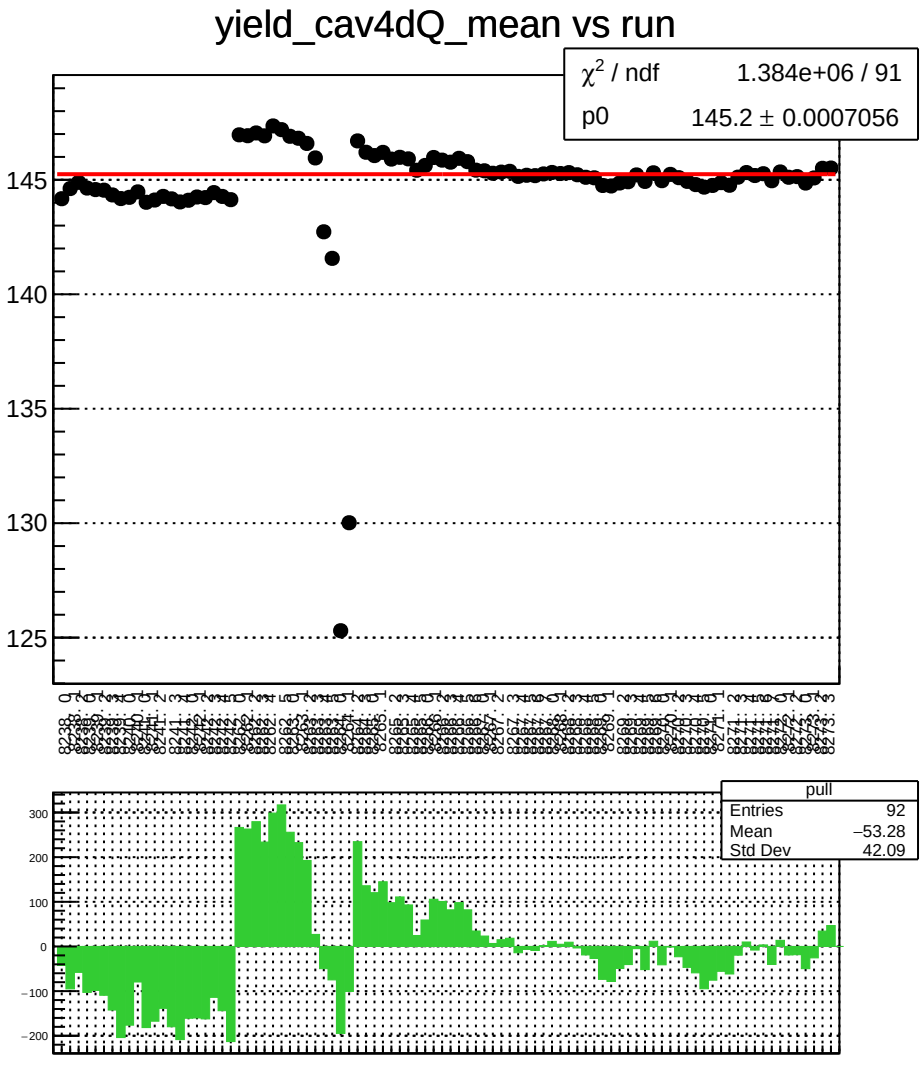

pull1D
Entries 92
Mean −0.09981
Std Dev 4.516
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

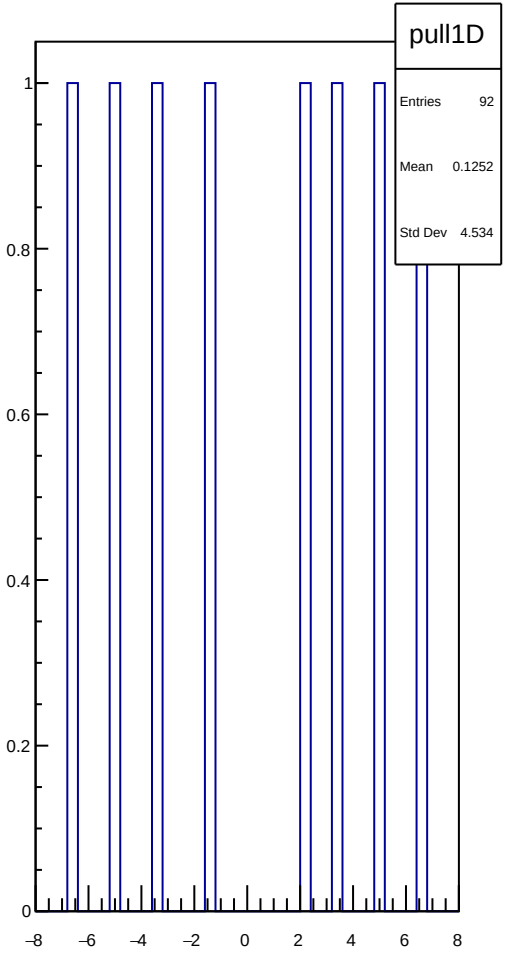

yield_cav4bQ_rms vs run
χ² / ndf 4.583e+05 / 91
p0 0.9183 ± 0.0007979
14
12
10
8
6
4
2

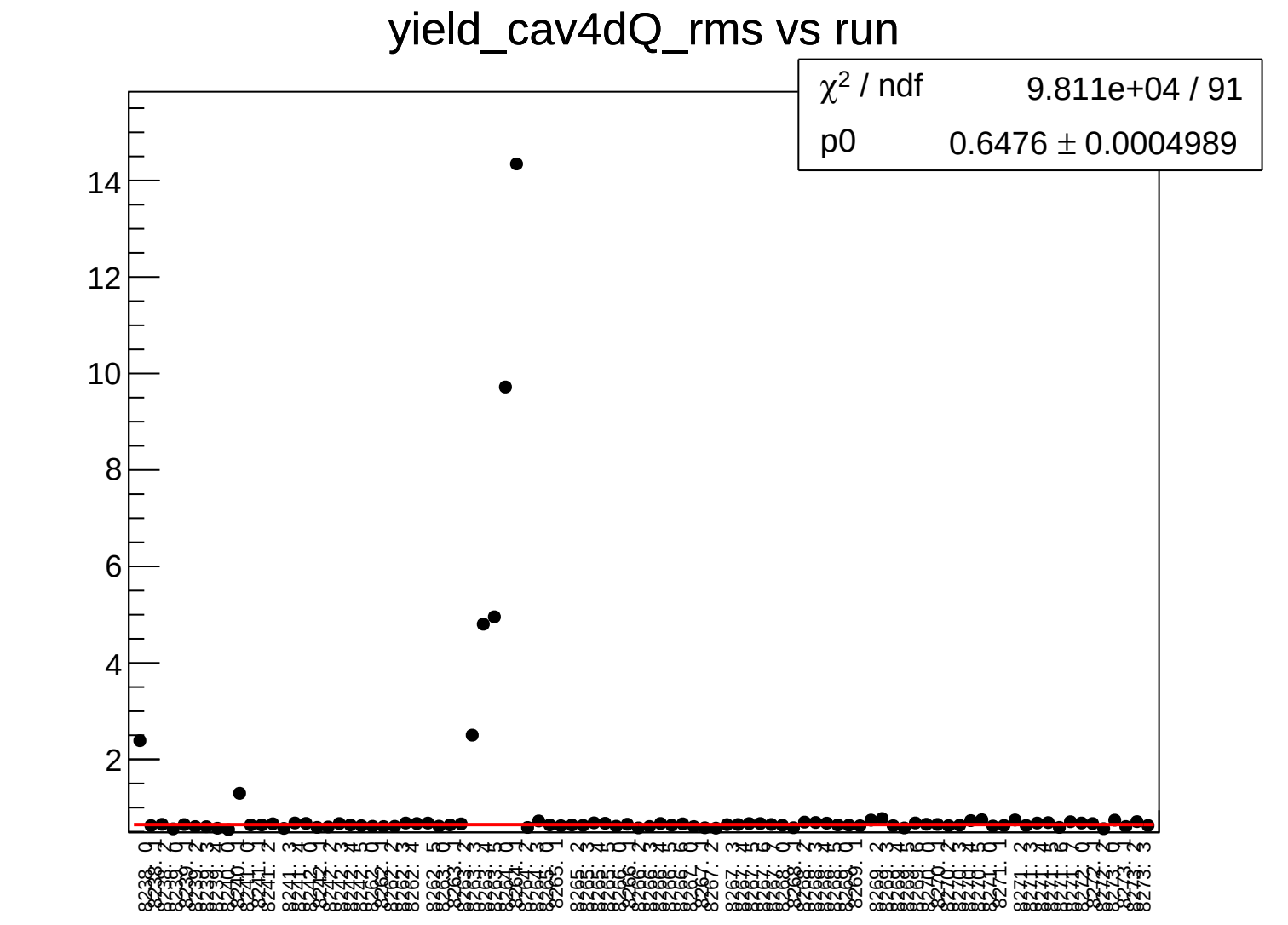

yield_cav4cQ_mean vs run
χ² / ndf 9.729e+05 / 91
p0 147.1± 0.001074
150
145
140
135
130
125
pull
Entries 92
Mean 29.91
Std Dev 33.1
100
0
−100
−200
−300

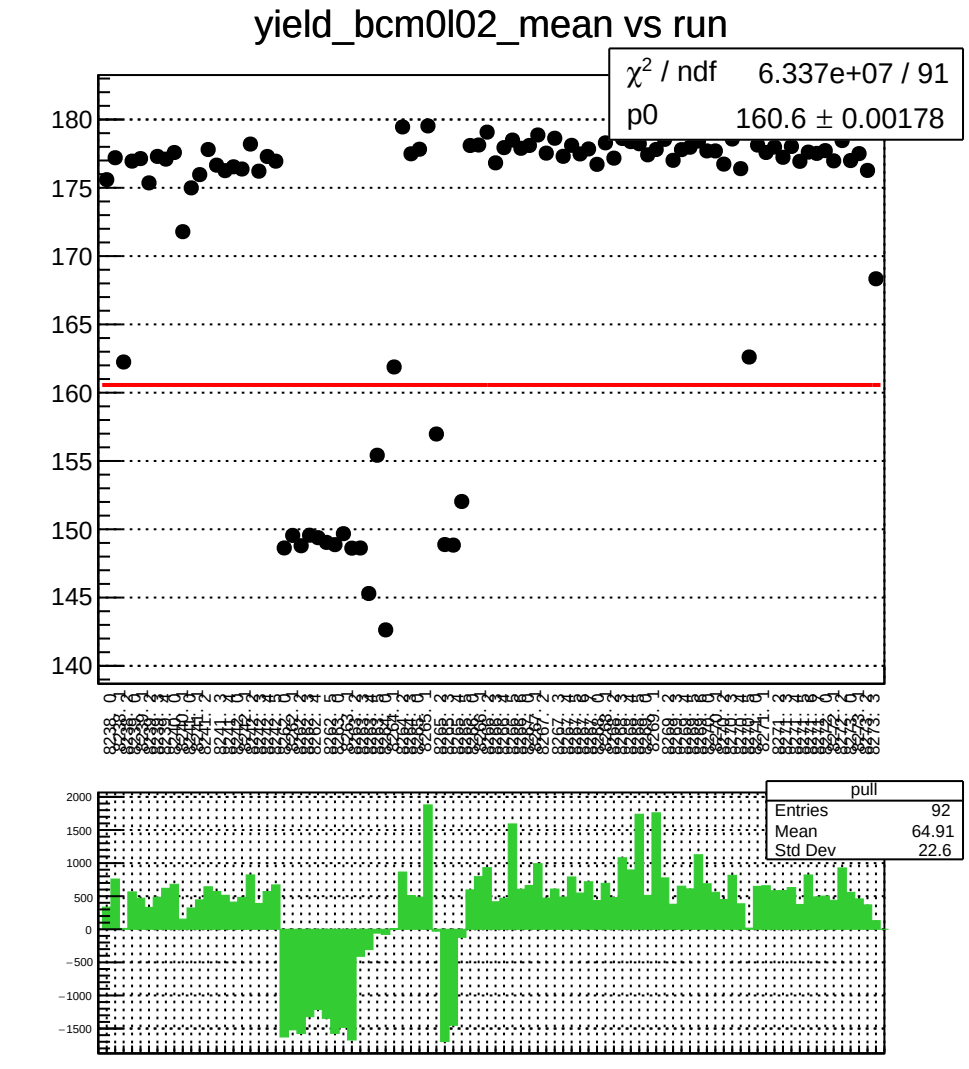

pull1D
Entries 92
Mean 0.9708
Std Dev 5.163
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

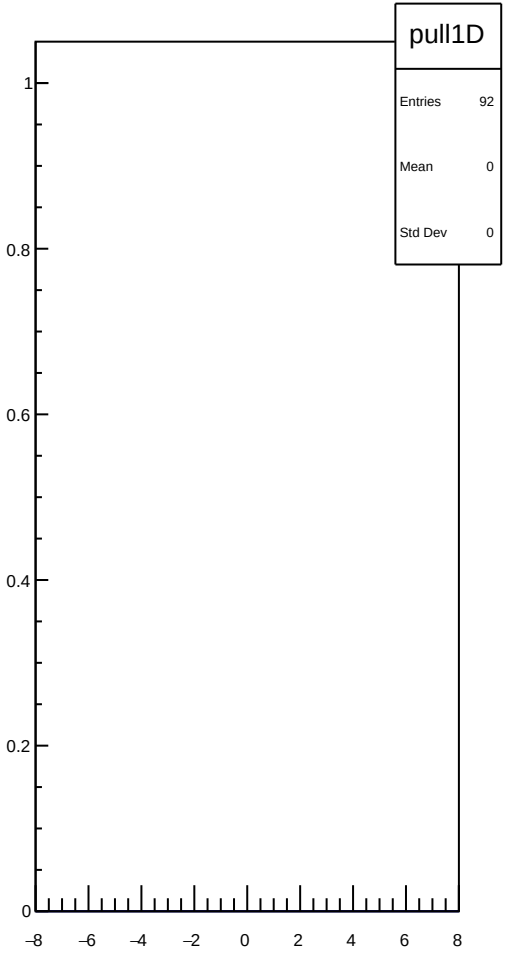

yield_cav4cQ_rms vs run
χ² / ndf 3.224e+05 / 91
p0 0.9176 ± 0.0007593
16
14
12
10
8
6
4
2

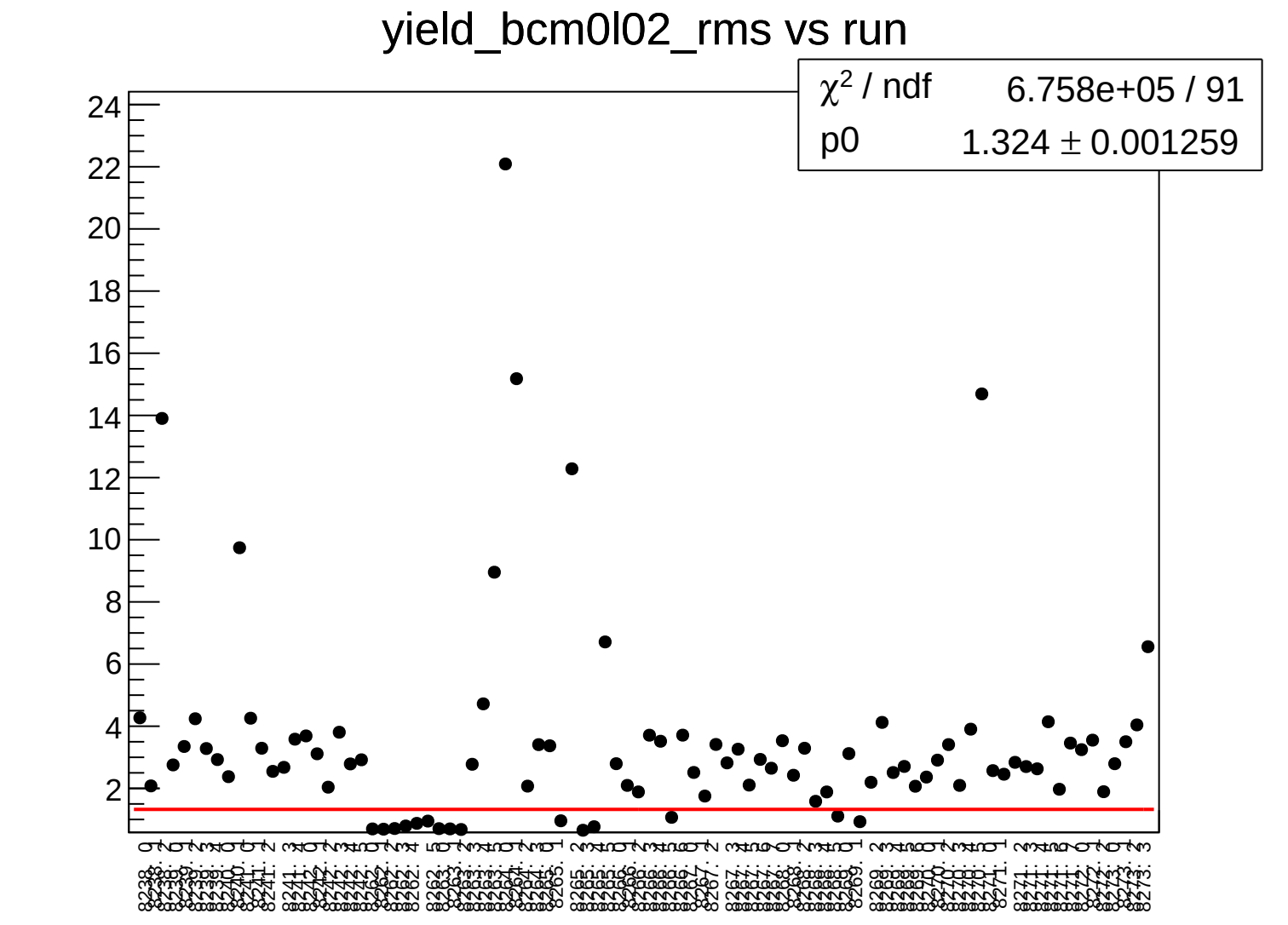

yield_cav4dQ_mean vs run
χ² / ndf 1.384e+06 / 91
p0 145.2 ± 0.0007056
145
140
135
130
125
pull
Entries 92
Mean −53.28
Std Dev 42.09
300
200
100
0
−100
−200

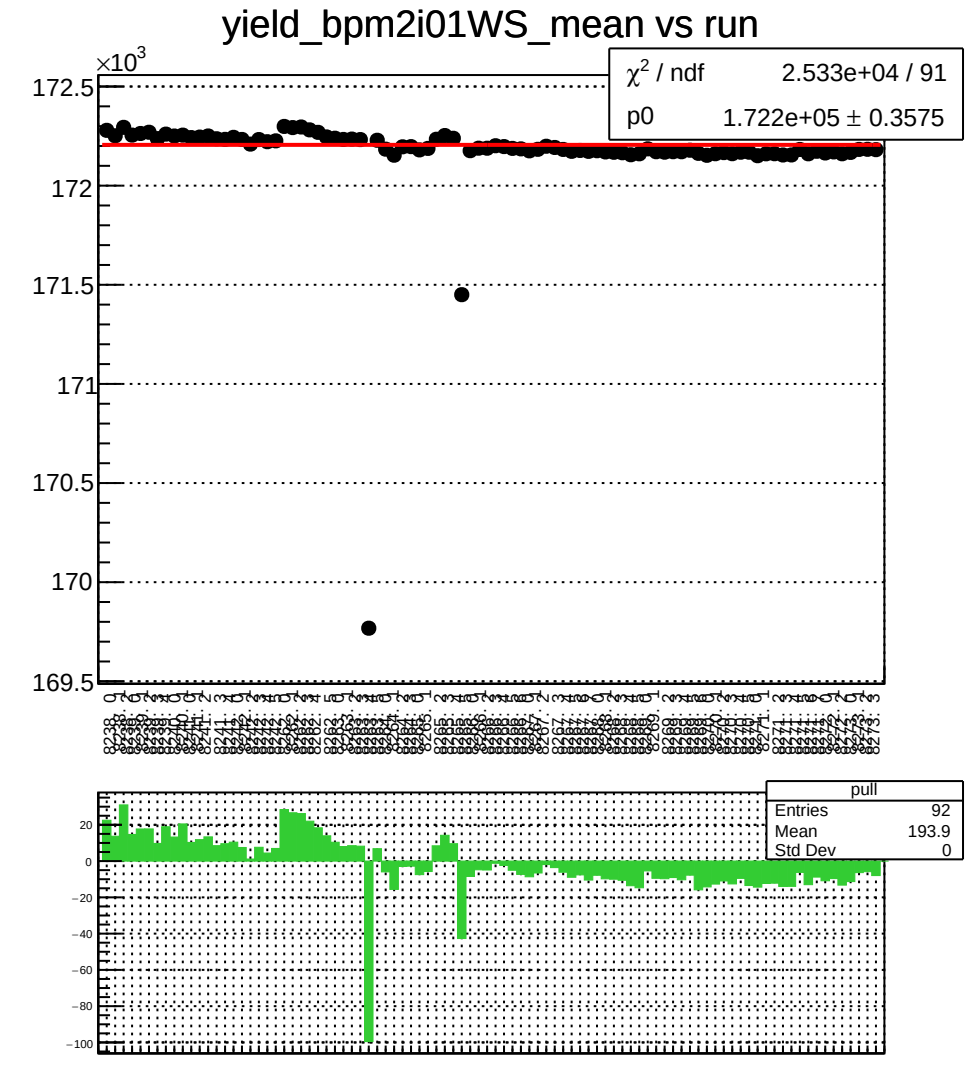

pull1D
Entries 92
Mean 0.1252
Std Dev 4.534
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

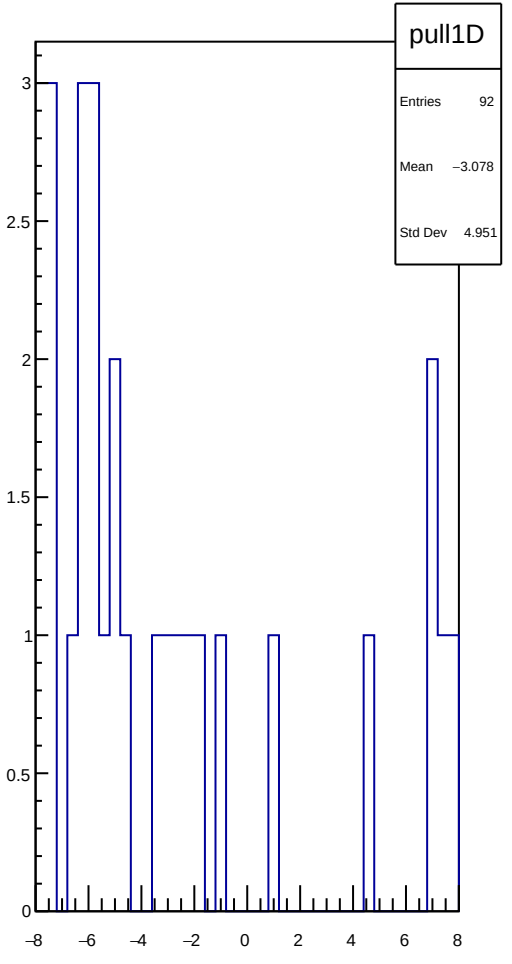

yield_cav4dQ_rms vs run
χ² / ndf 9.811e+04 / 91
p0 0.6476 ± 0.0004989
14
12
10
8
6
4
2

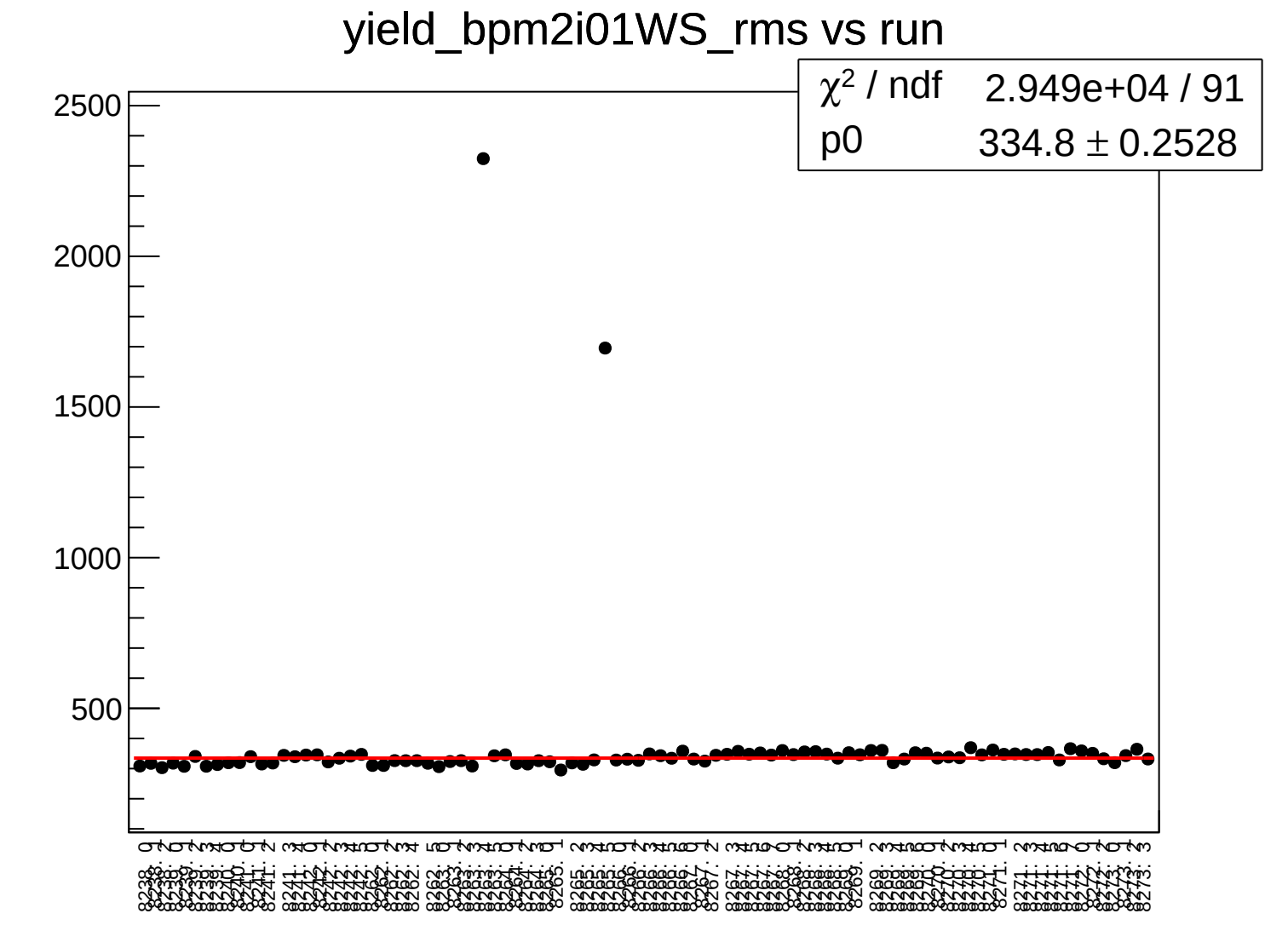

yield_bcm0l02_mean vs run
χ² / ndf 6.337e+07 / 91
p0 160.6 ± 0.00178
pull
Entries 92
Mean 64.91
Std Dev 22.6

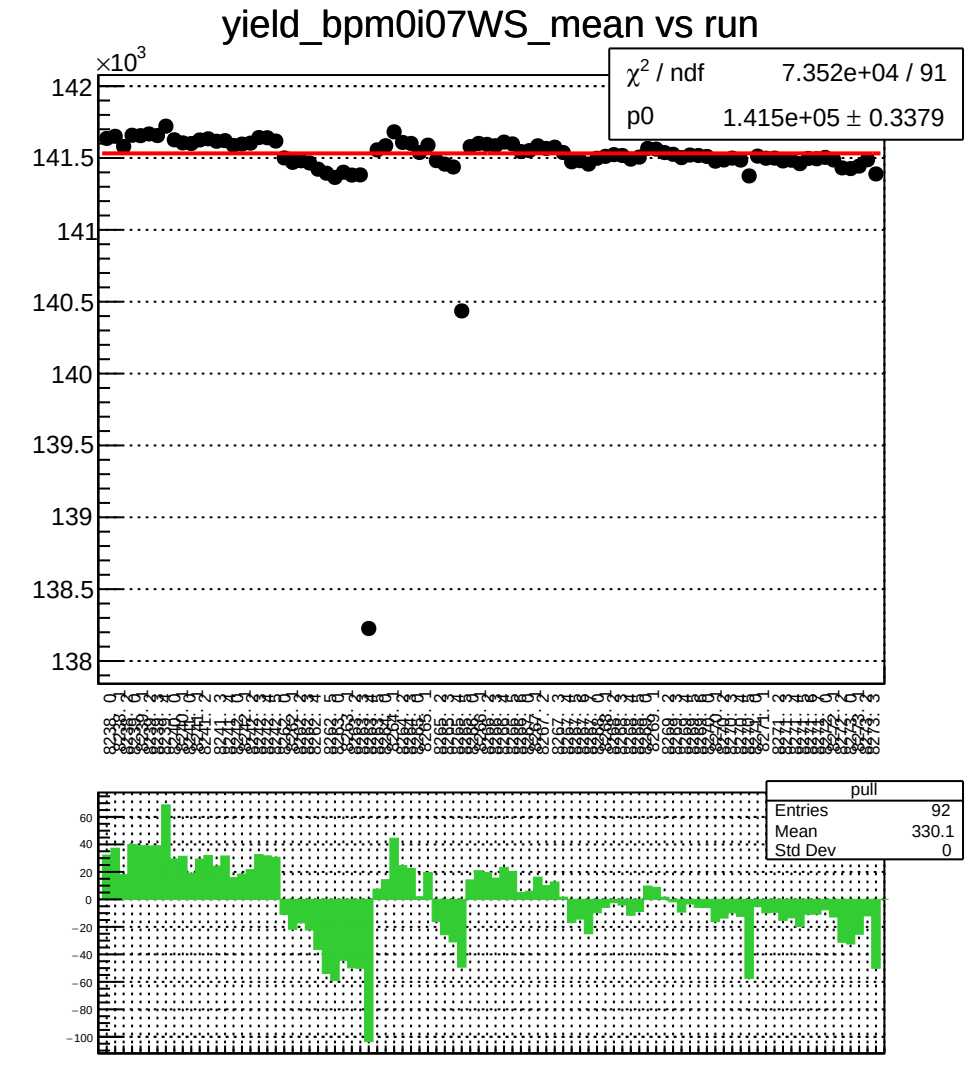

pull1D
Entries 92
Mean 0
Std Dev 0

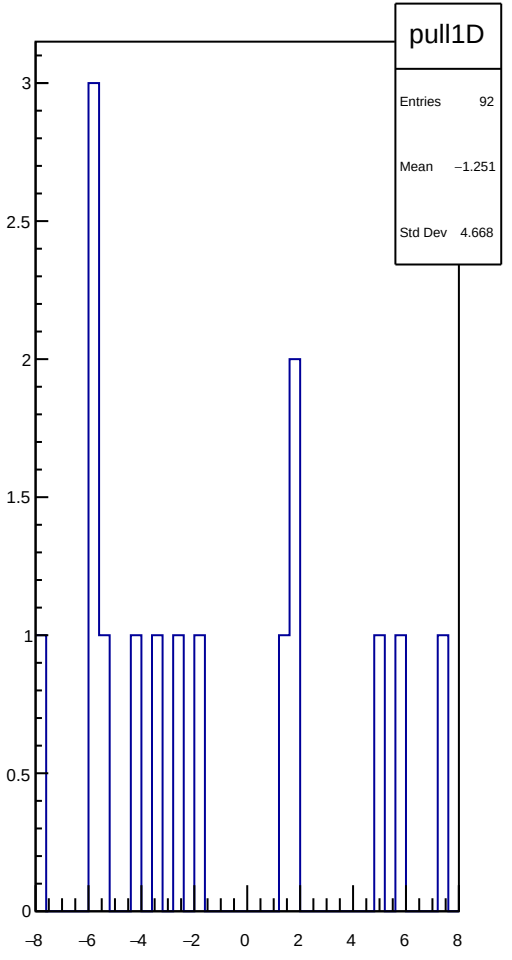

yield_bcm0l02_rms vs run
$\chi^2$ / ndf 6.758e+05 / 91
p0 1.324 ± 0.001259

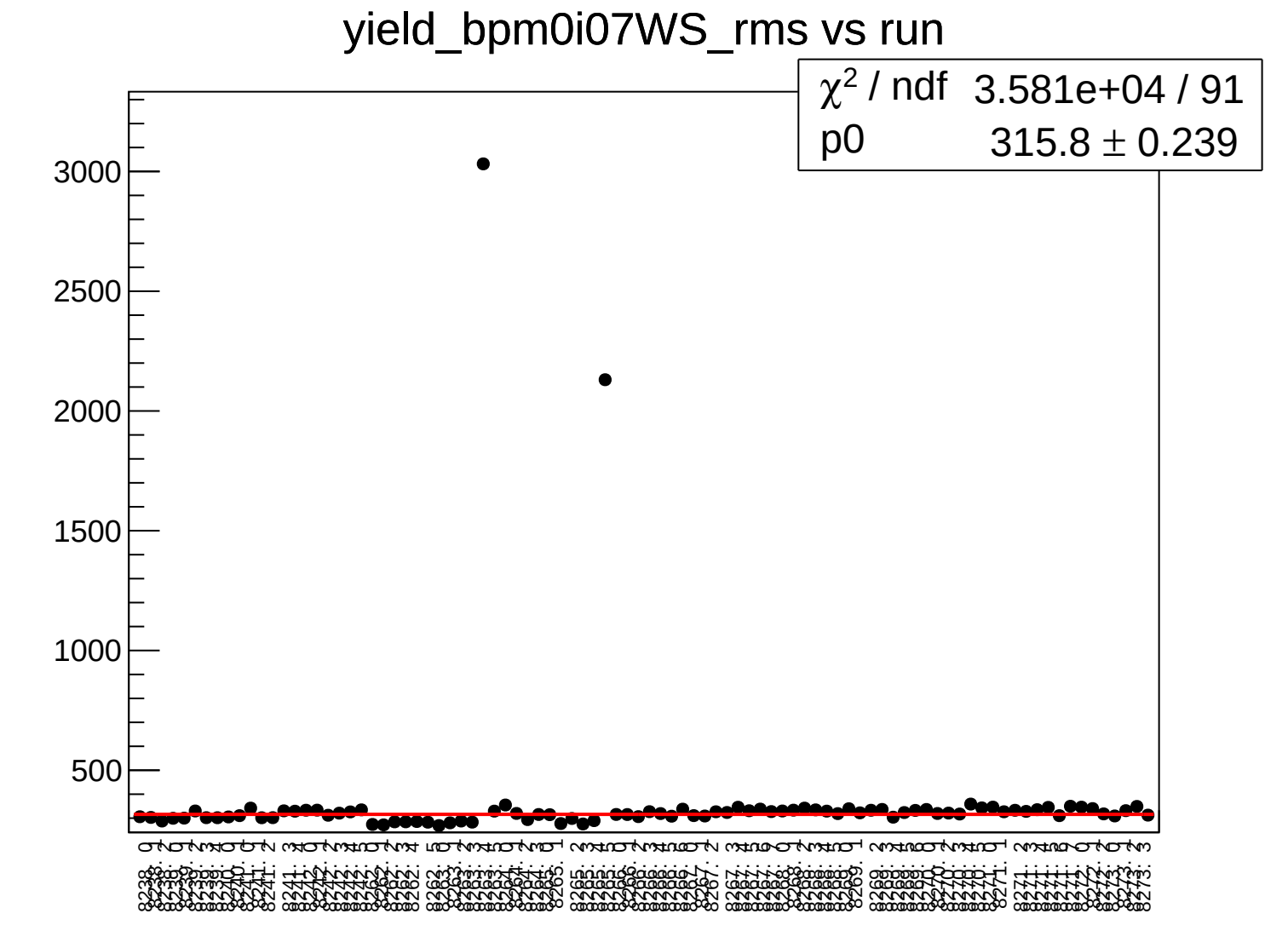

yield_bpm2i01WS_mean vs run
×10^3
χ^2 / ndf 2.533e+04 / 91
p0 1.722e+05 ± 0.3575
172.5
172
171.5
171
170.5
170
169.5
pull
Entries 92
Mean 193.9
Std Dev 0
20
0
−20
−40
−60
−80
−100

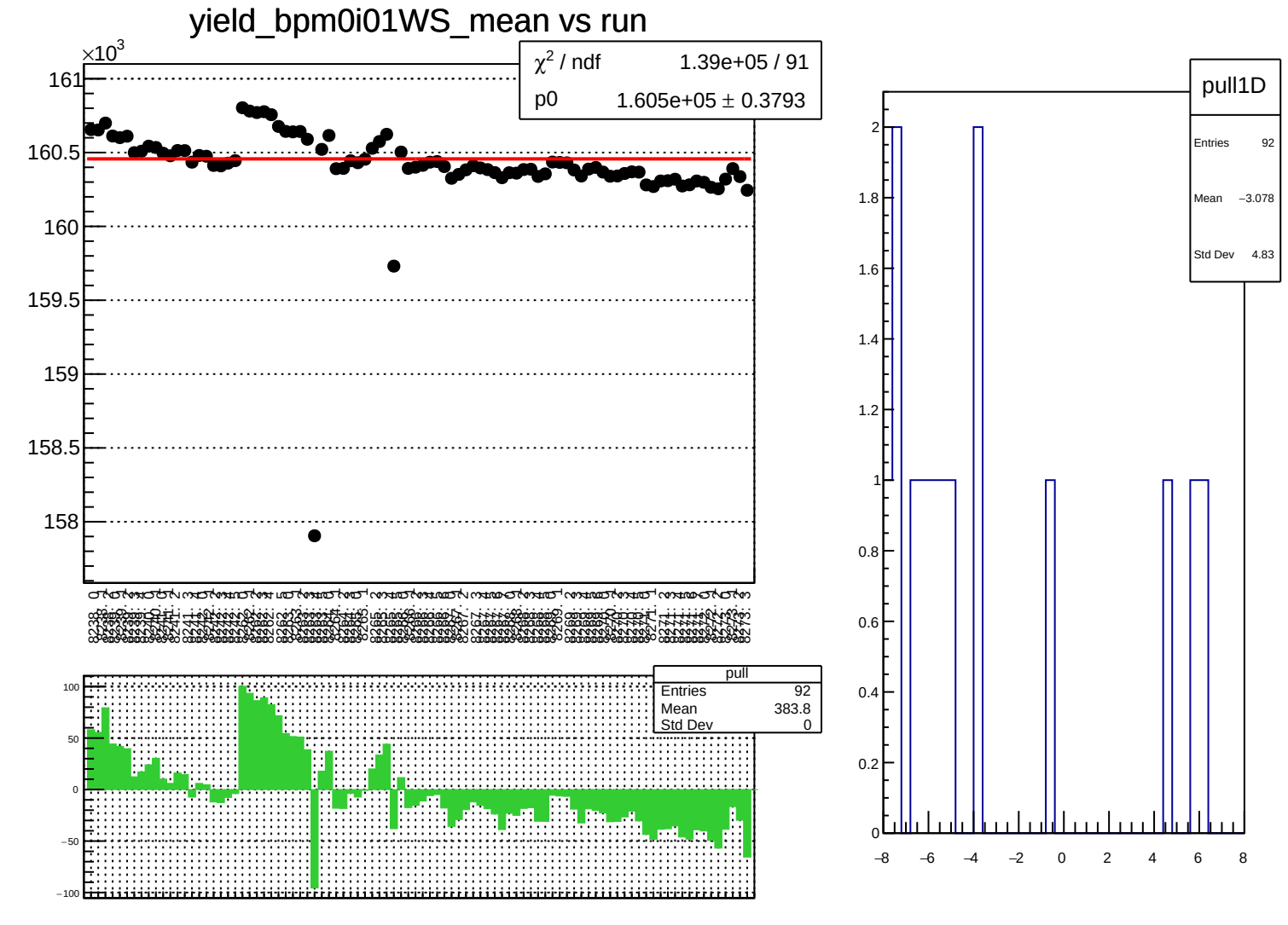

pull1D
Entries 92
Mean −3.078
Std Dev 4.951
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

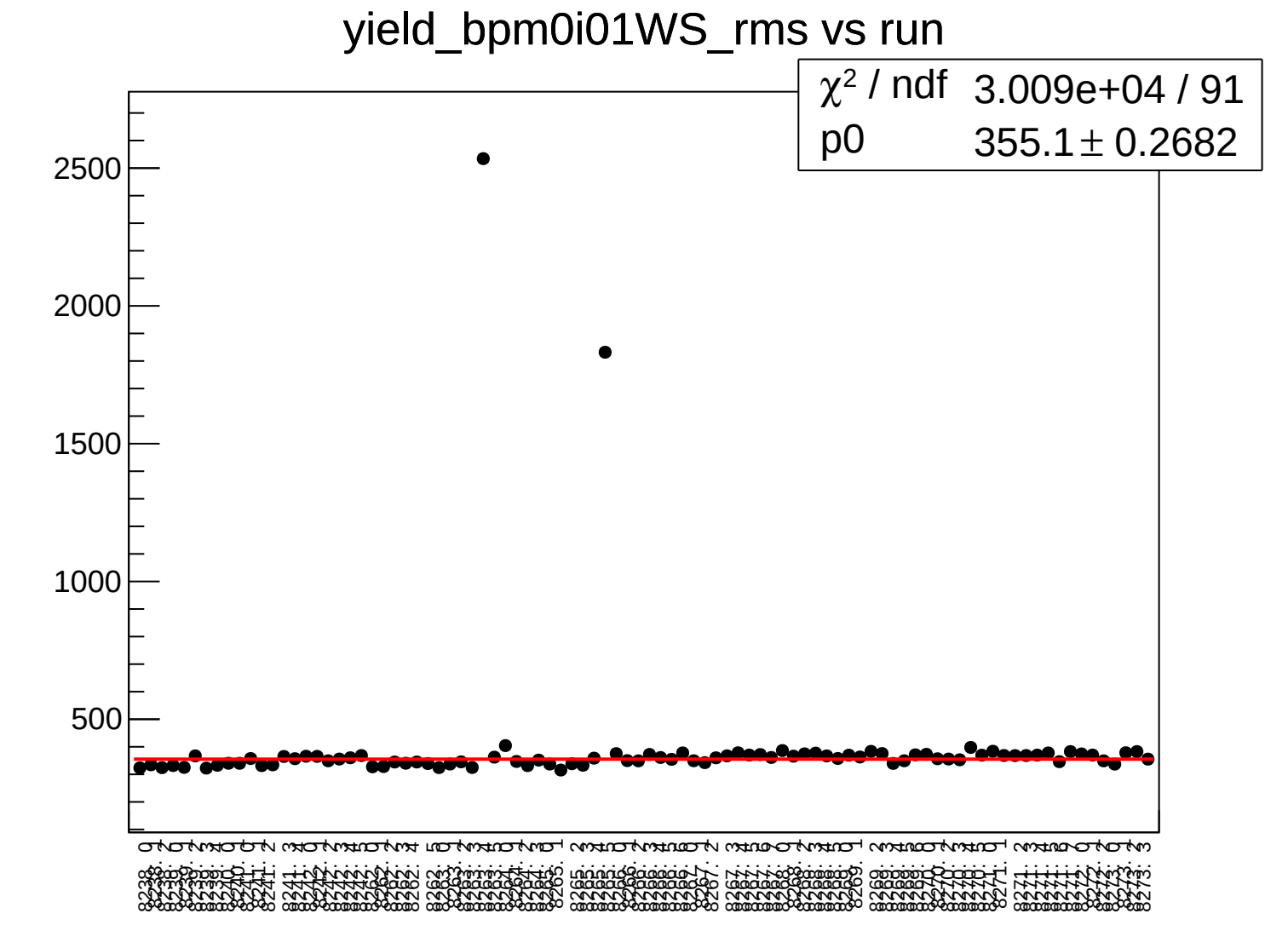

yield_bpm2i01WS_rms vs run
χ² / ndf 2.949e+04 / 91
p0 334.8 ± 0.2528
2500
2000
1500
1000
500

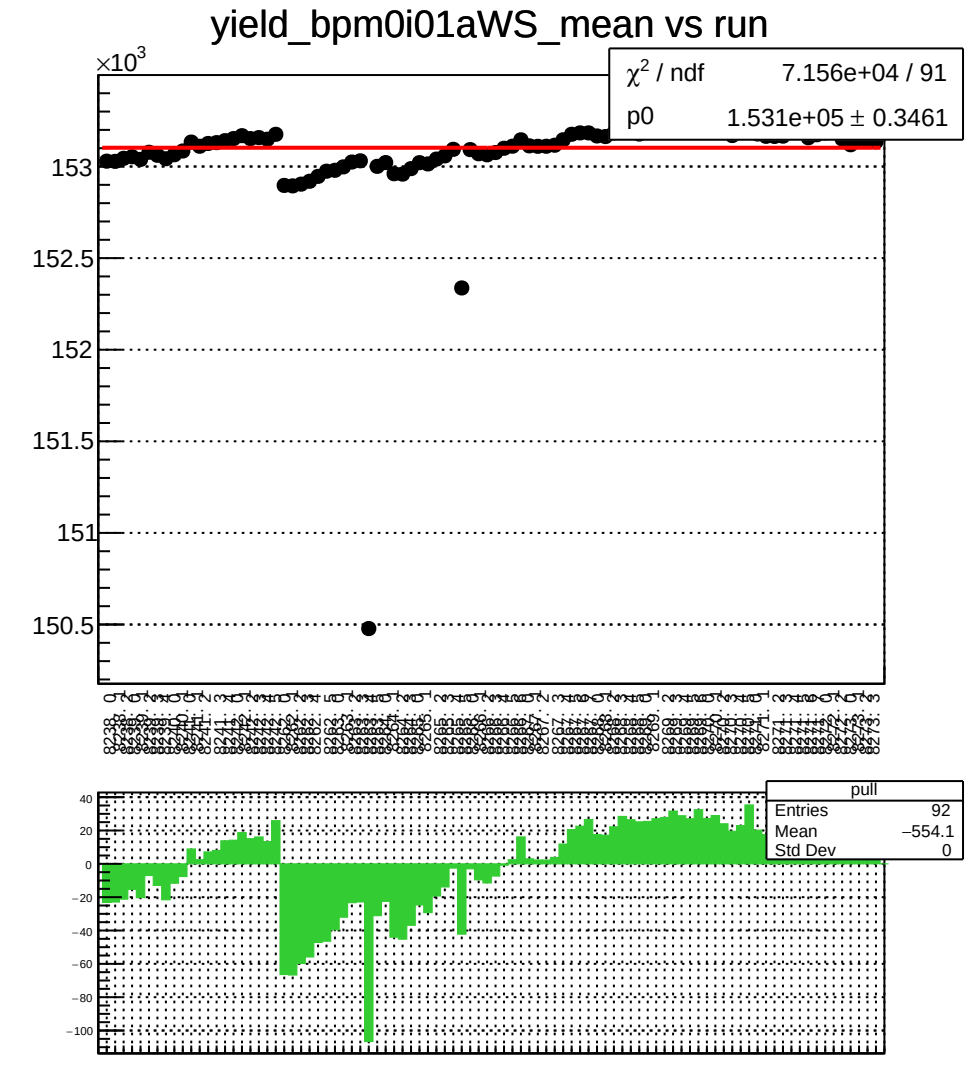

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 7.352e+04 / 91
p0 1.415e+05 ± 0.3379
142
141.5
141
140.5
140
139.5
139
138.5
138
pull
Entries 92
Mean 330.1
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

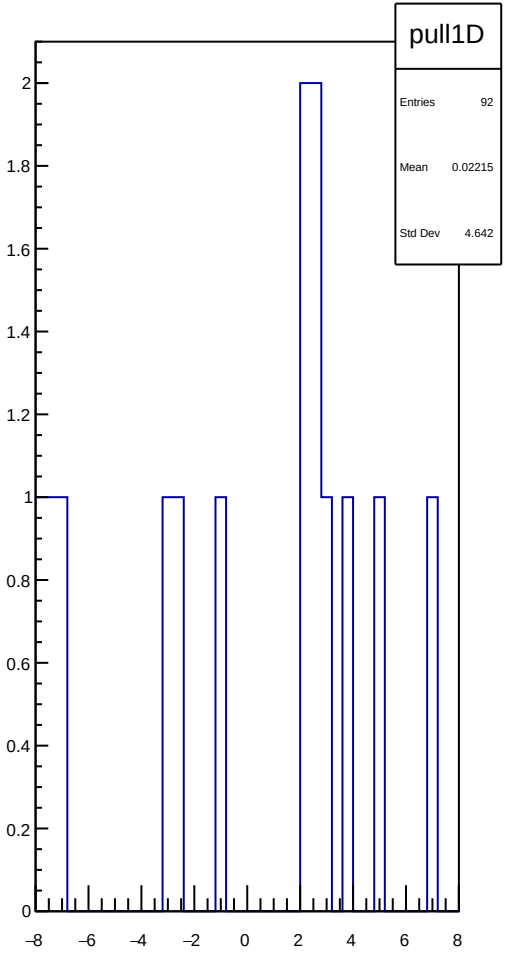

pull1D
Entries 92
Mean −1.251
Std Dev 4.668
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i07WS_rms vs run
χ² / ndf 3.581e+04 / 91
p0 315.8 ± 0.239
3000
2500
2000
1500
1000
500

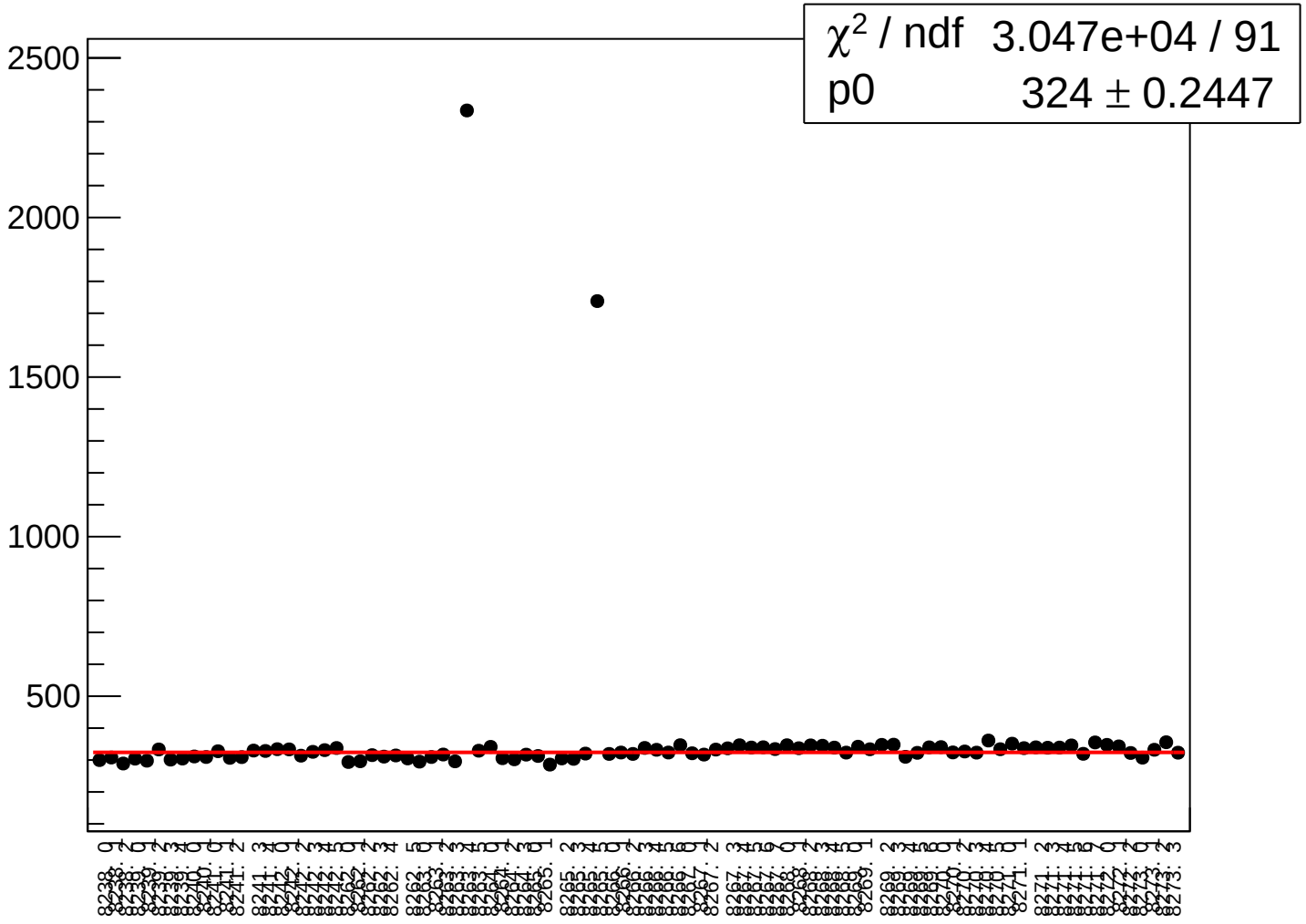

yield_bpm0i01WS_mean vs run
×10^3
χ^2 / ndf 1.39e+05 / 91
p0 1.605e+05 ± 0.3793
161
160.5
160
159.5
159
158.5
158
pull
Entries 92
Mean 383.8
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 92
Mean −3.078
Std Dev 4.83
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

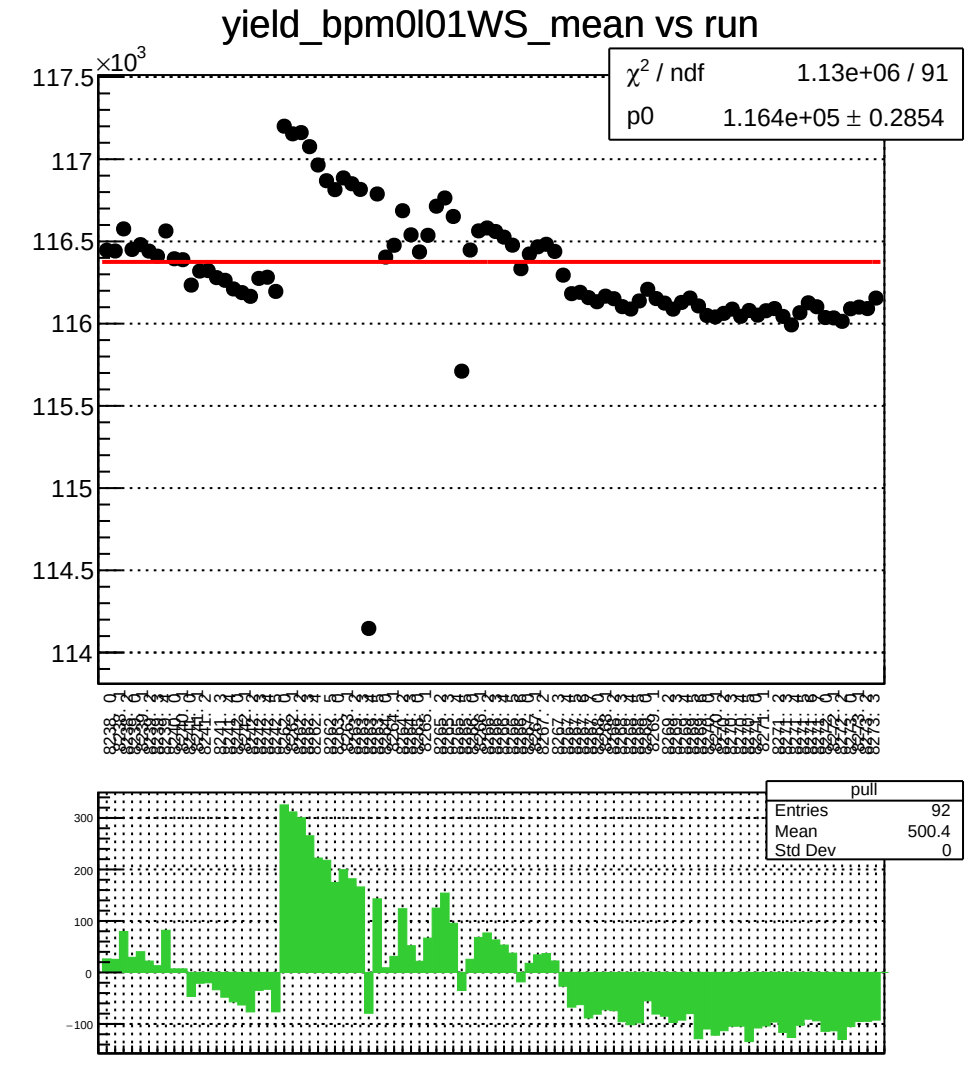

yield_bpm0i01WS_rms vs run
χ² / ndf 3.009e+04 / 91
p0 355.1 ± 0.2682
2500
2000
1500
1000
500

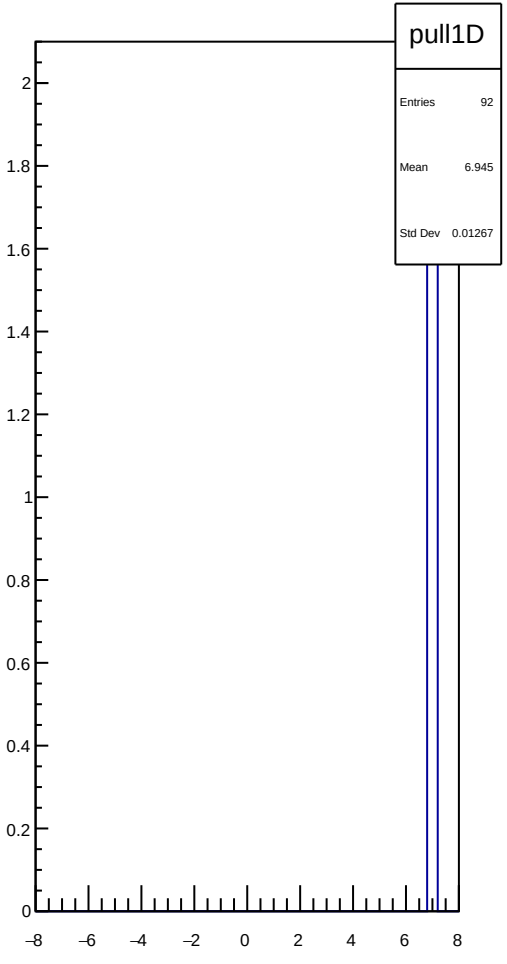

yield_bpm0i01aWS_mean vs run
×10^3
χ^2 / ndf 7.156e+04 / 91
p0 1.531e+05 ± 0.3461
153
152.5
152
151.5
151
150.5
pull
Entries 92
Mean −554.1
Std Dev 0
40
20
0
−20
−40
−60
−80
−100

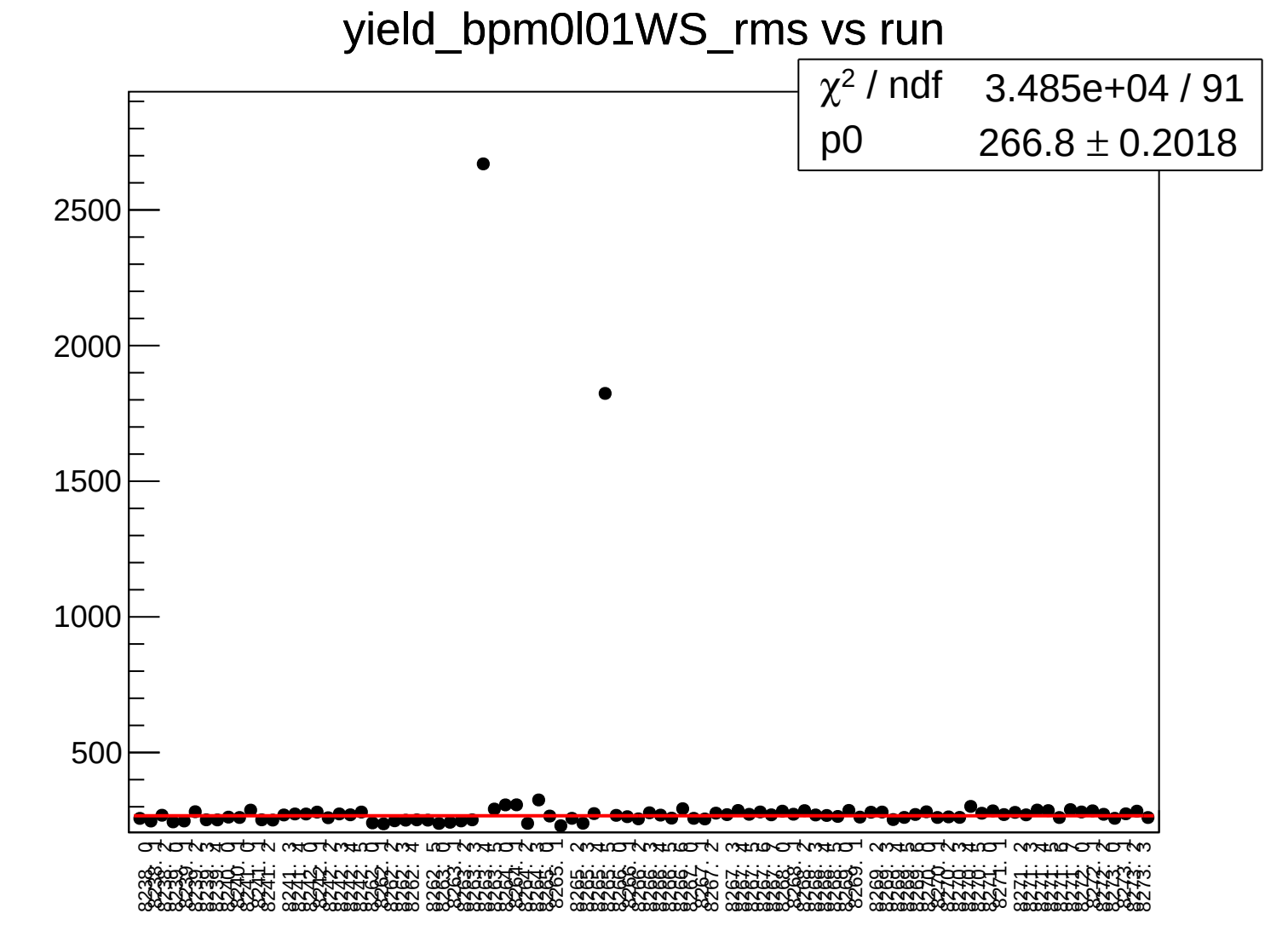

pull1D
Entries 92
Mean 0.02215
Std Dev 4.642
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

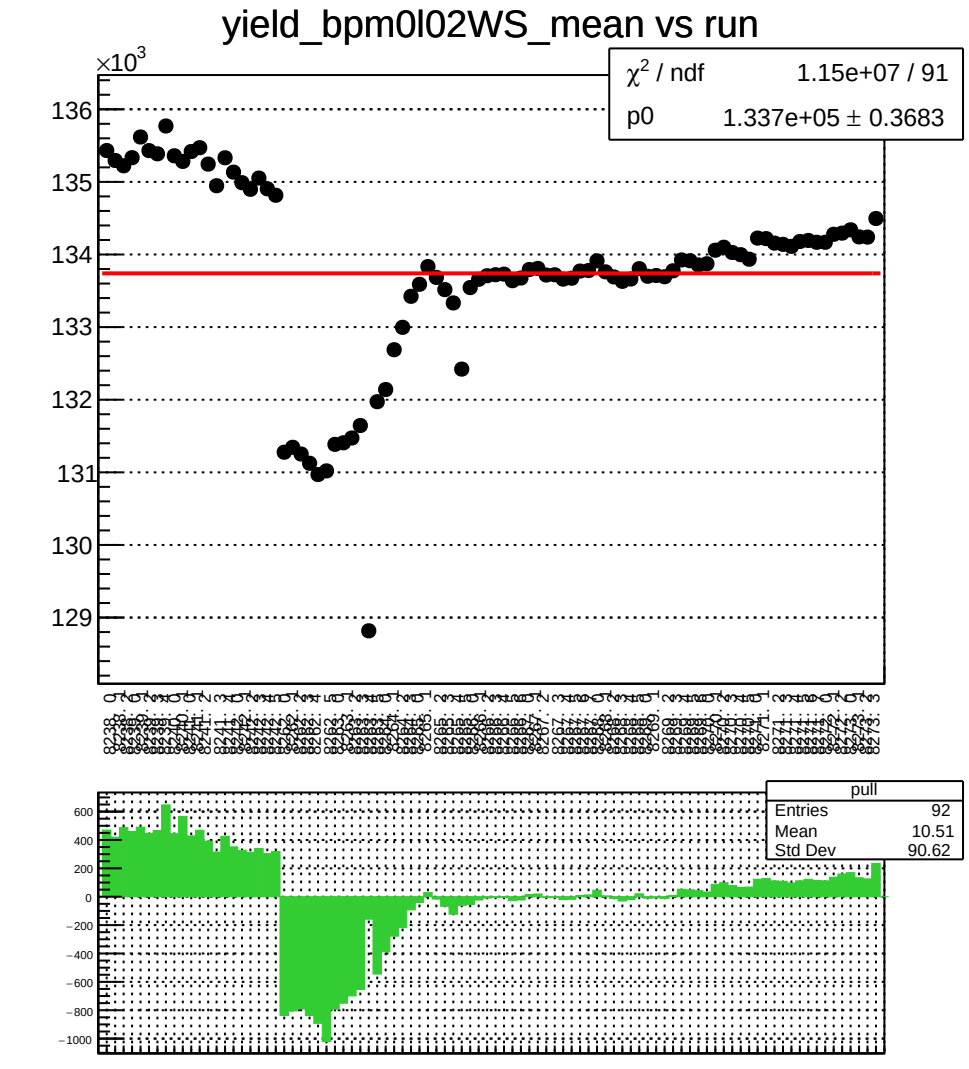
# yield_bpm0i01aWS_rms vs run

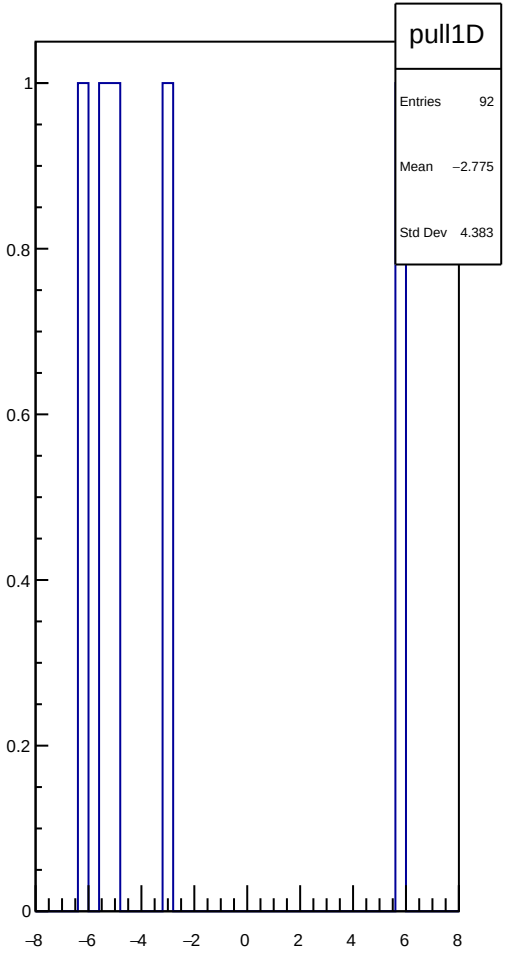


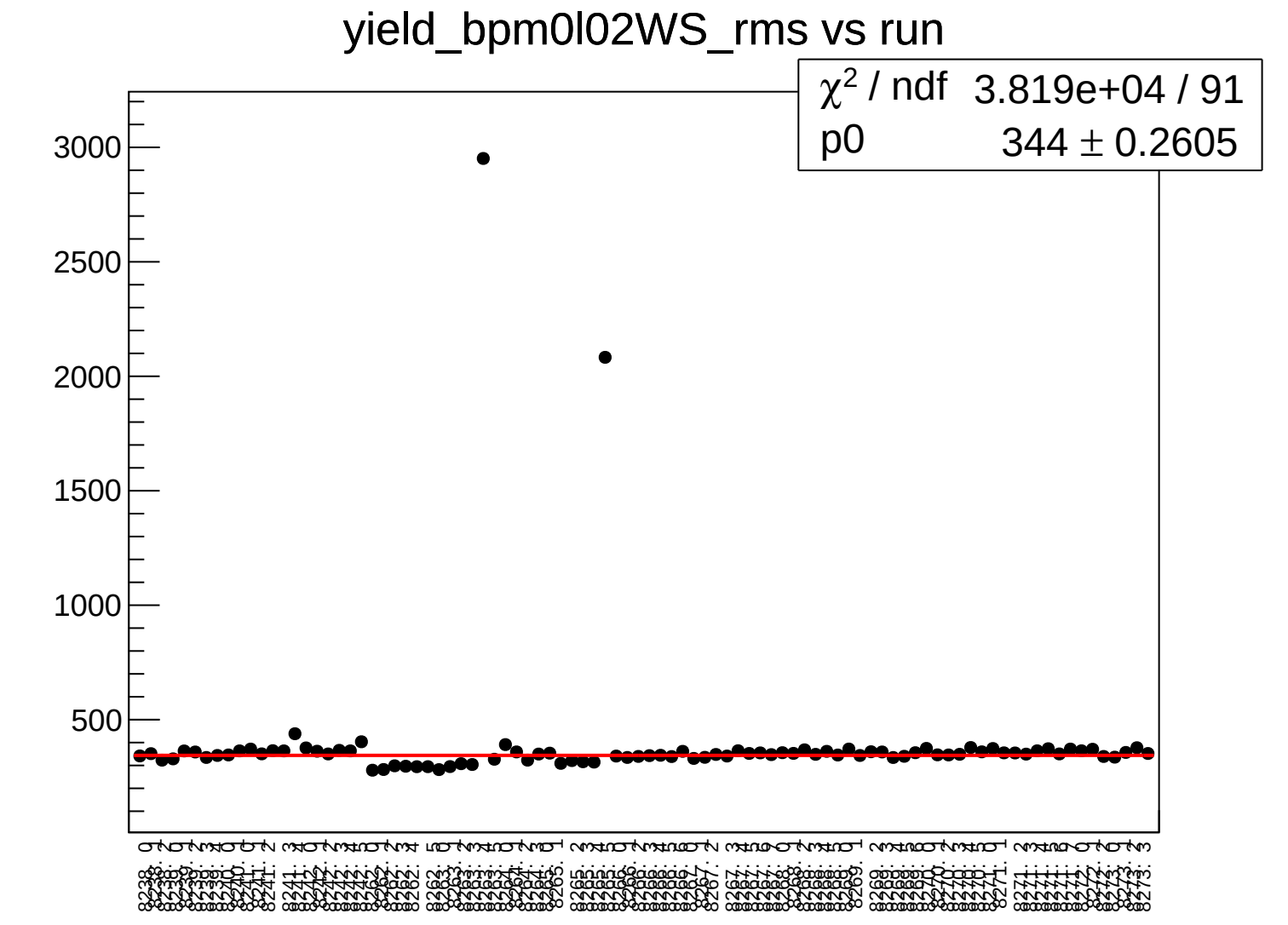

yield_bpm0l01WS_mean vs run
×10^3
117.5
117
116.5
116
115.5
115
114.5
114
χ² / ndf 1.13e+06 / 91
p0 1.164e+05 ± 0.2854
pull
Entries 92
Mean 500.4
Std Dev 0
300
200
100
0
−100

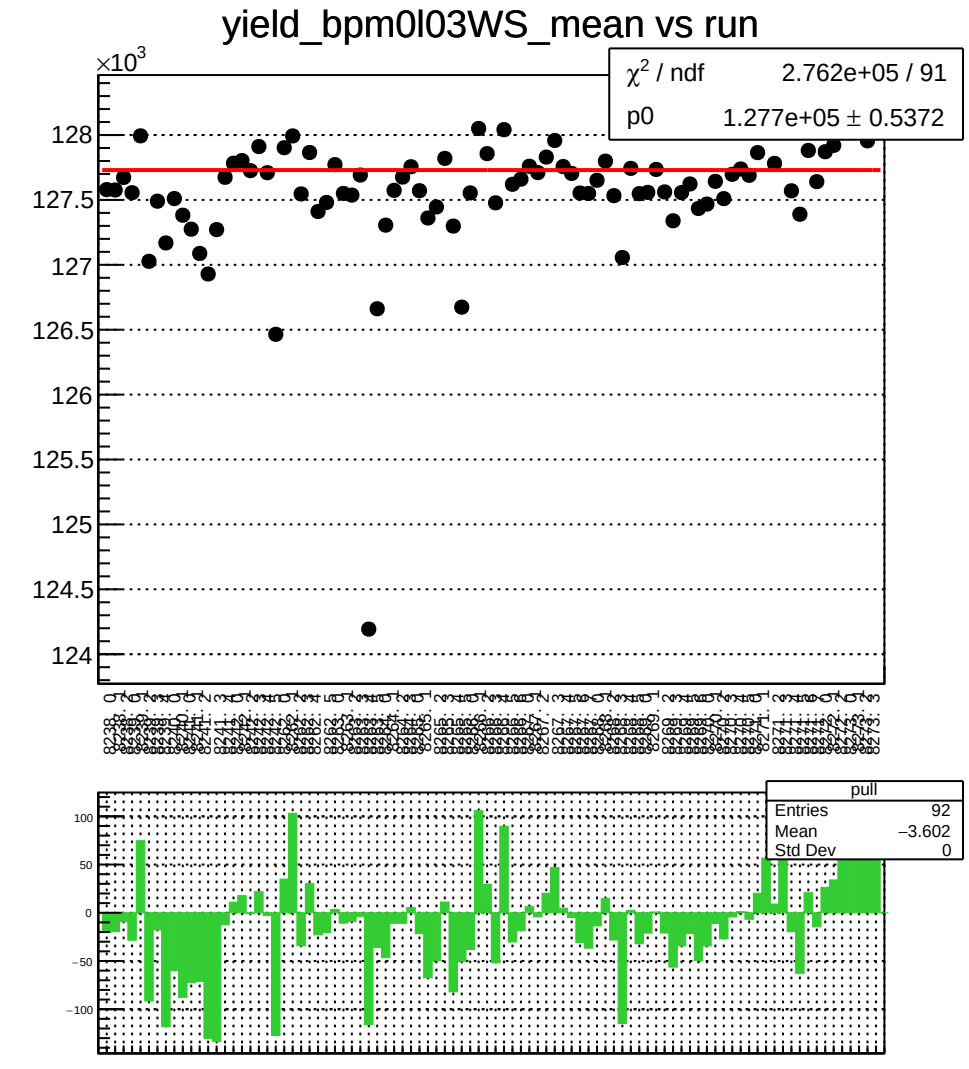

pull1D
Entries 92
Mean 6.945
Std Dev 0.01267
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

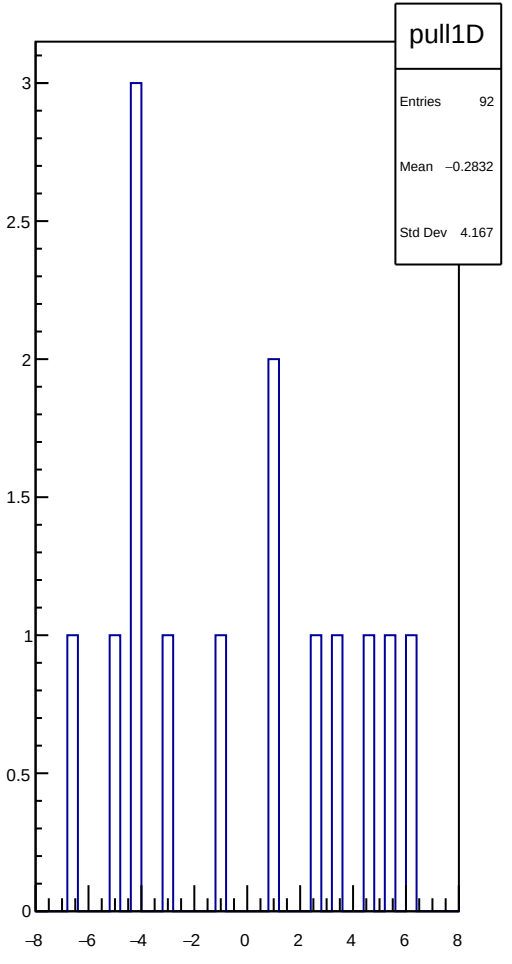

yield_bpm0l01WS_rms vs run
χ² / ndf 3.485e+04 / 91
p0 266.8 ± 0.2018
2500
2000
1500
1000
500

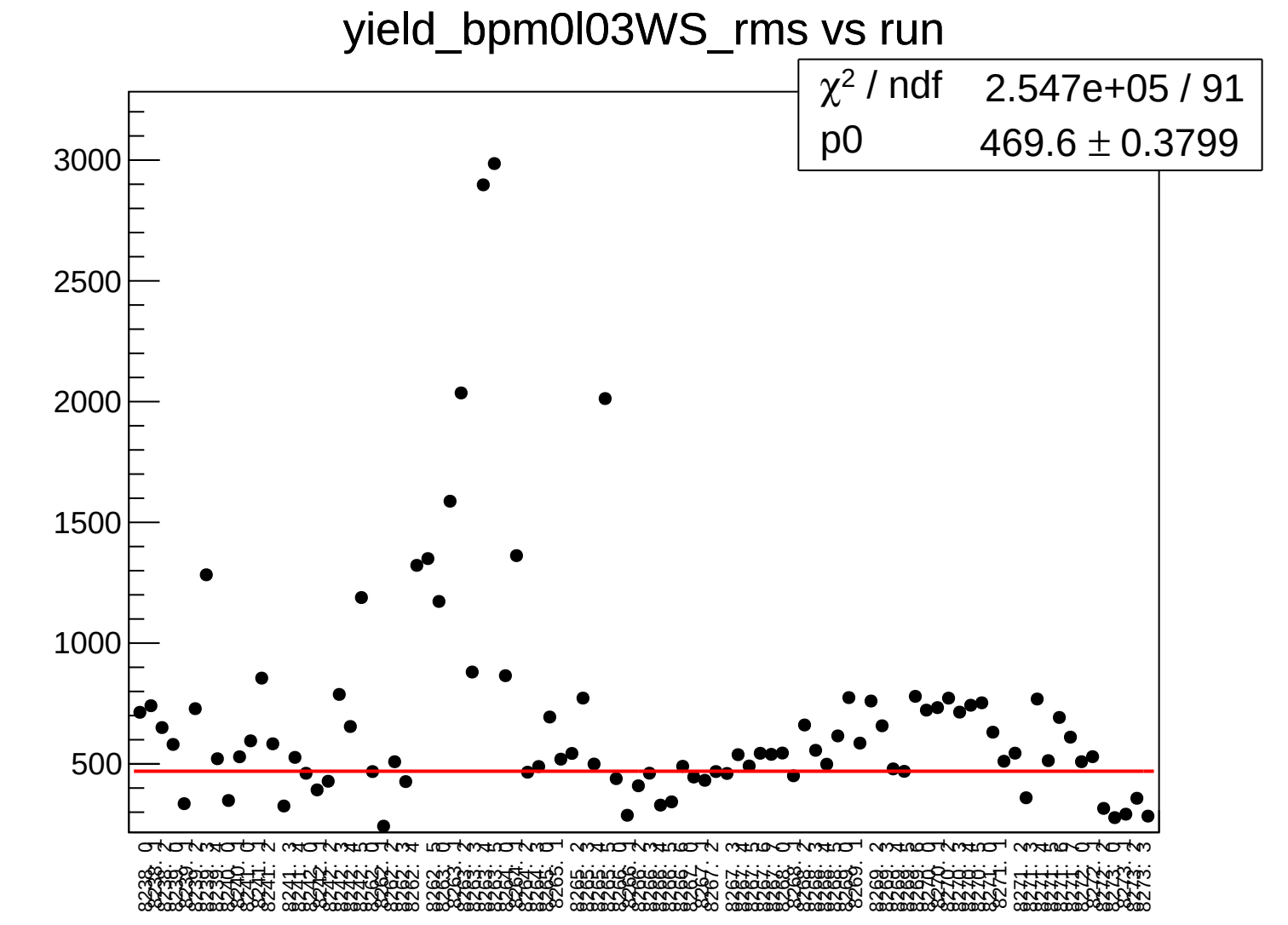

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 1.15e+07 / 91
p0 1.337e+05 ± 0.3683
136
135
134
133
132
131
130
129
pull
Entries 92
Mean 10.51
Std Dev 90.62
600
400
200
0
−200
−400
−600
−800
−1000

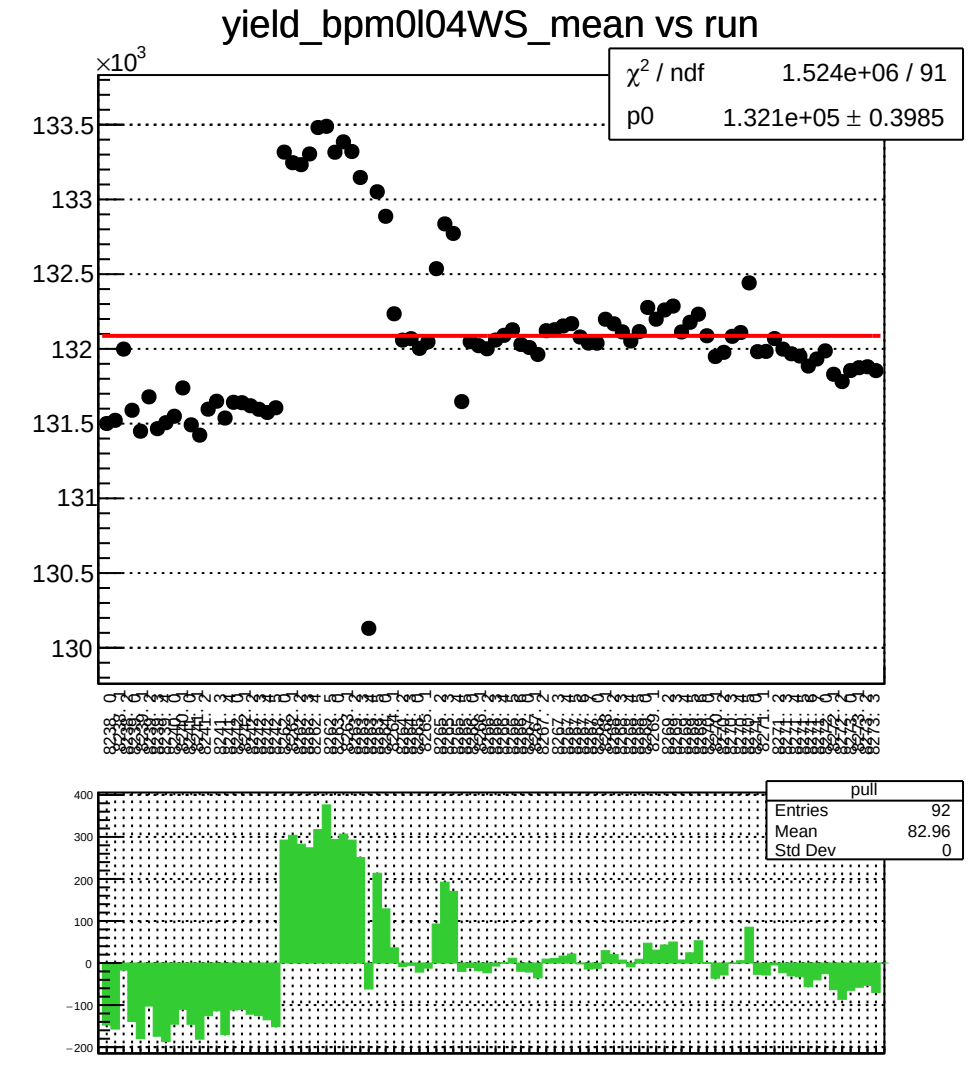

pull1D
Entries 92
Mean −2.775
Std Dev 4.383
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

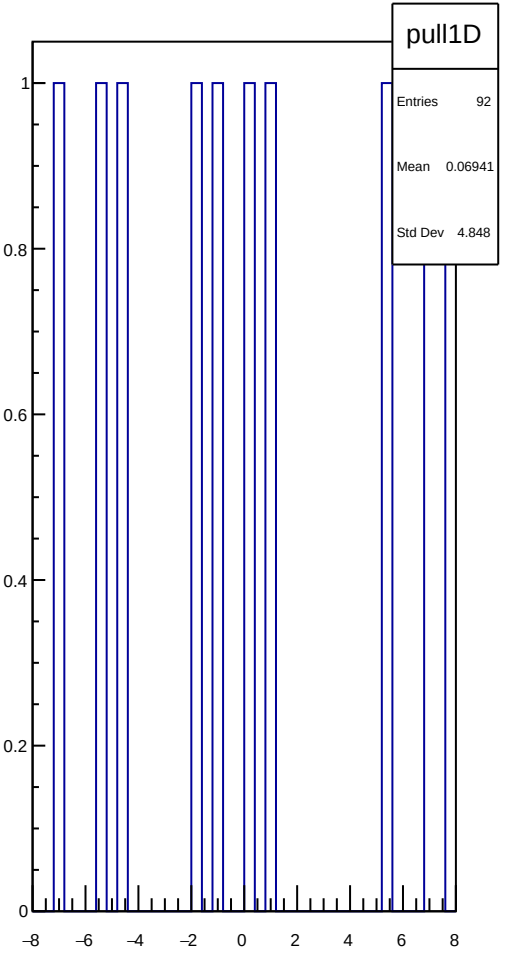

yield_bpm0l02WS_rms vs run
χ² / ndf 3.819e+04 / 91
p0 344 ± 0.2605
3000
2500
2000
1500
1000
500

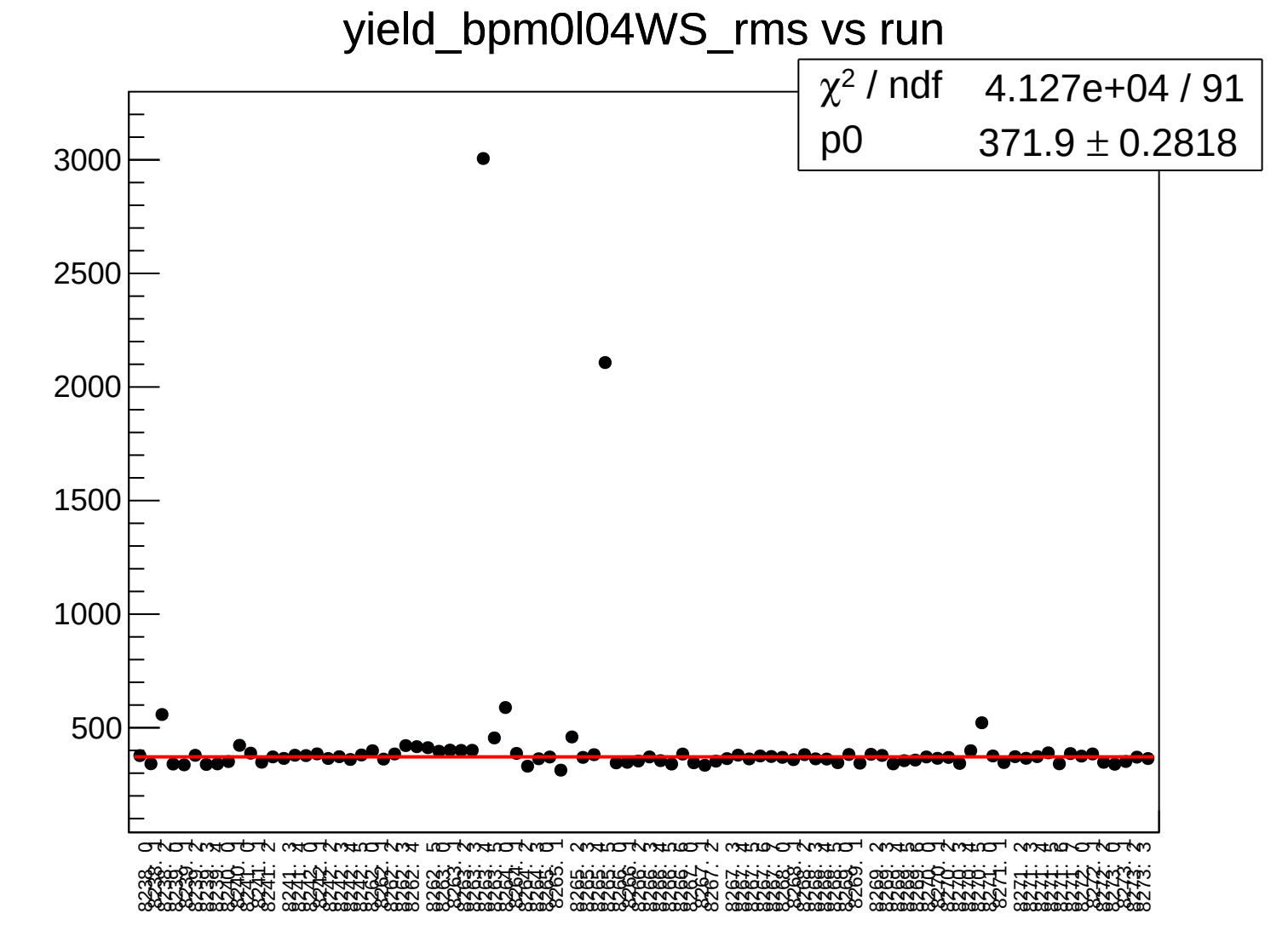

yield_bpm0l03WS_mean vs run
×10^3
χ^2 / ndf 2.762e+05 / 91
p0 1.277e+05 ± 0.5372
128
127.5
127
126.5
126
125.5
125
124.5
124
pull
Entries 92
Mean −3.602
Std Dev 0
100
50
0
−50
−100

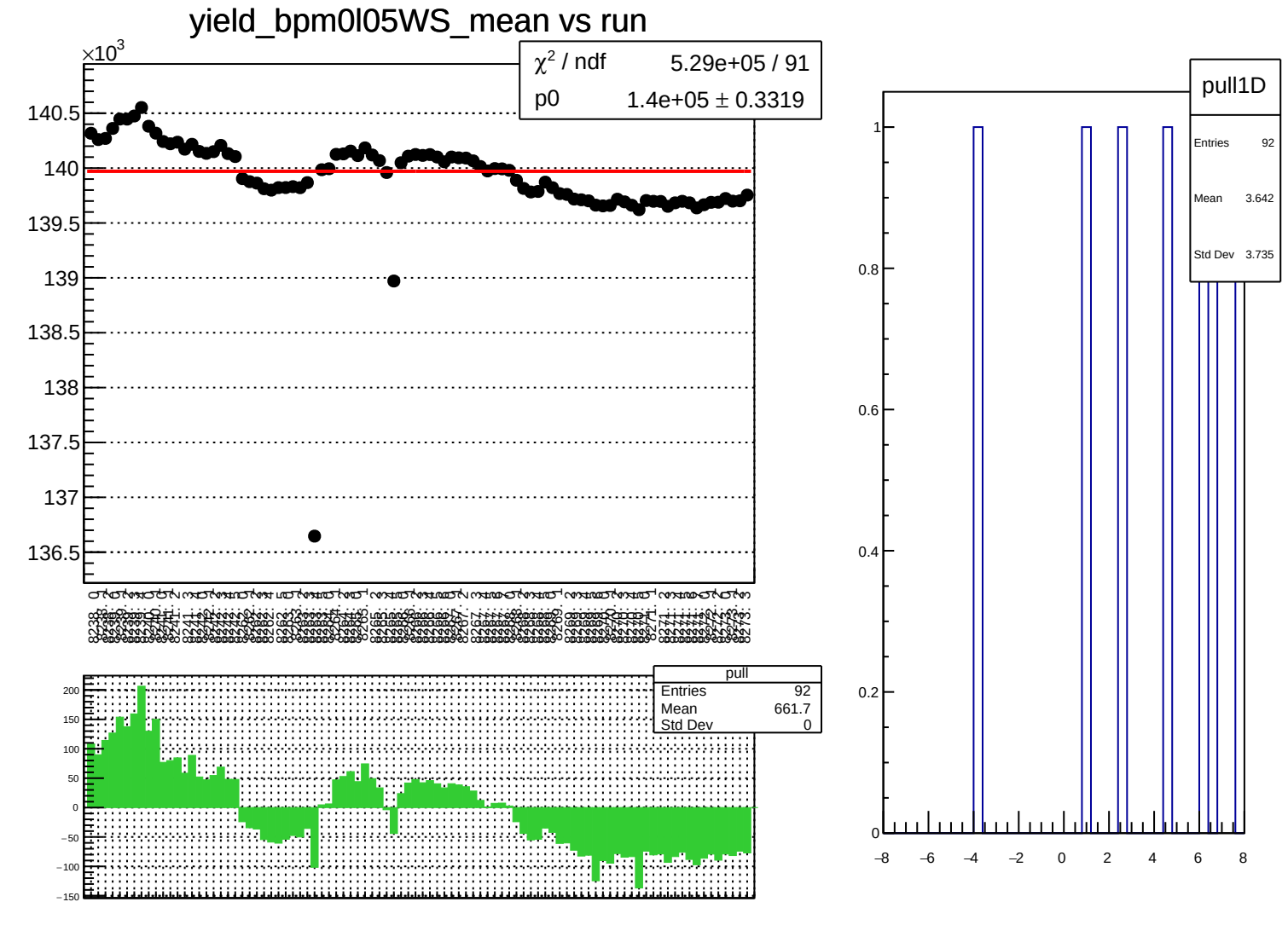

pull1D
Entries 92
Mean −0.2832
Std Dev 4.167
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

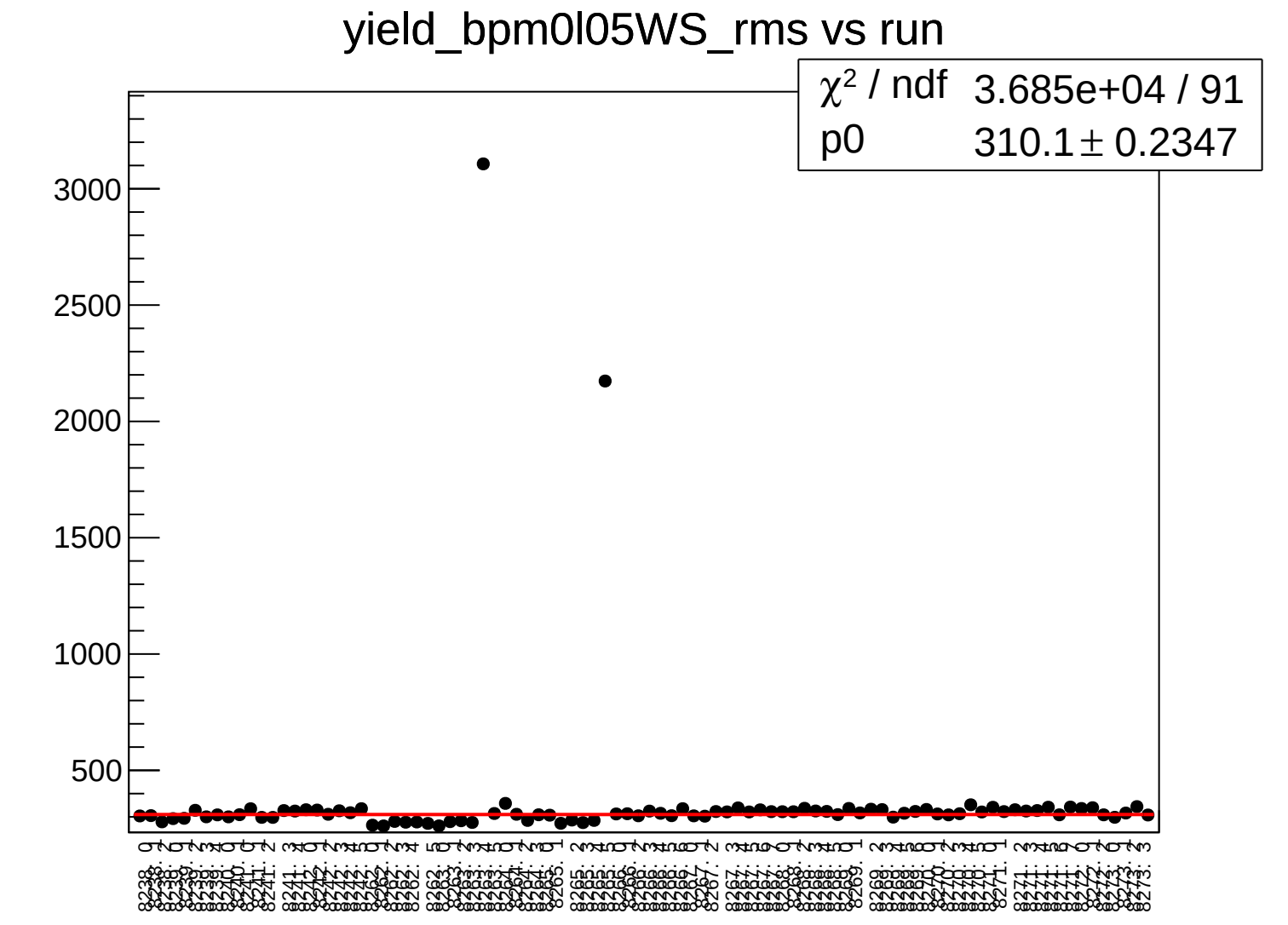

yield_bpm0l03WS_rms vs run
χ² / ndf 2.547e+05 / 91
p0 469.6 ± 0.3799
3000
2500
2000
1500
1000
500

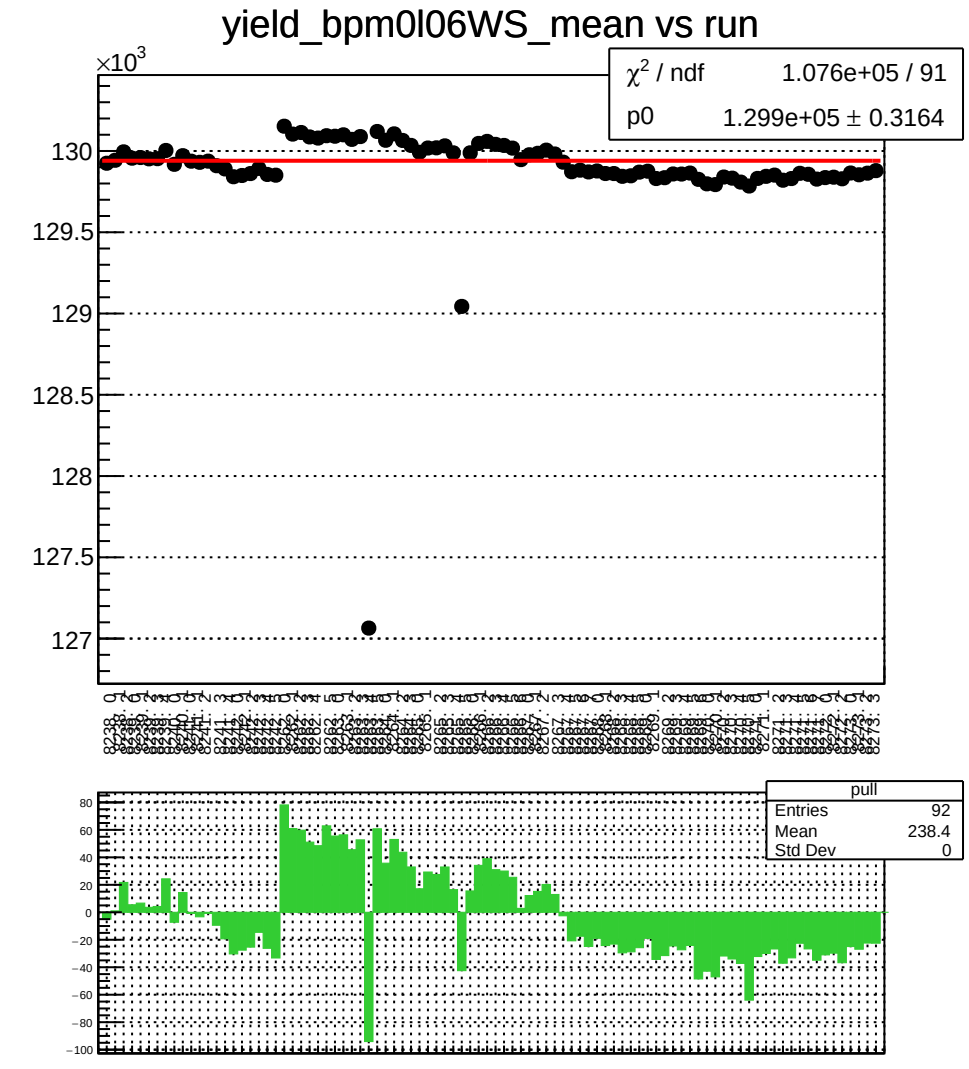

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 1.524e+06 / 91
p0 1.321e+05 ± 0.3985
133.5
133
132.5
132
131.5
131
130.5
130
pull
Entries 92
Mean 82.96
Std Dev 0
400
300
200
100
0
−100
−200

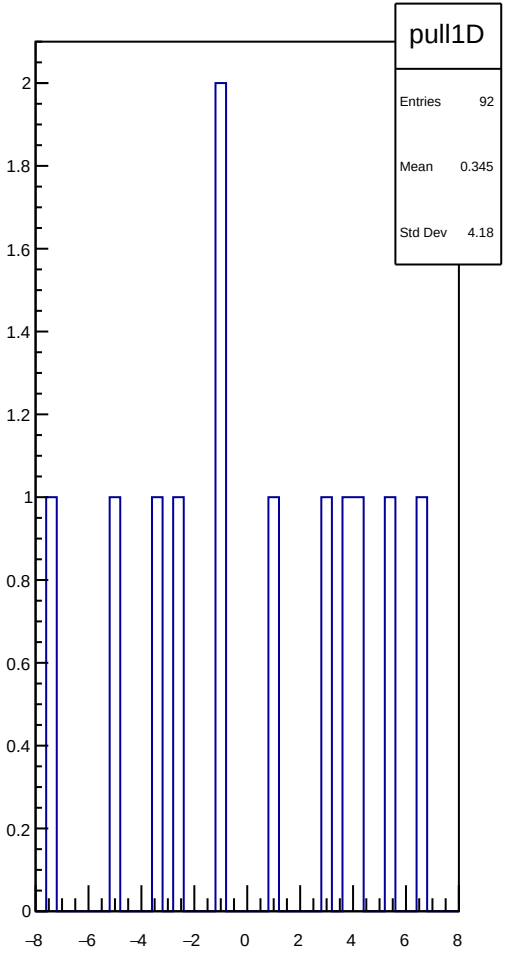

pull1D
Entries 92
Mean 0.06941
Std Dev 4.848
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

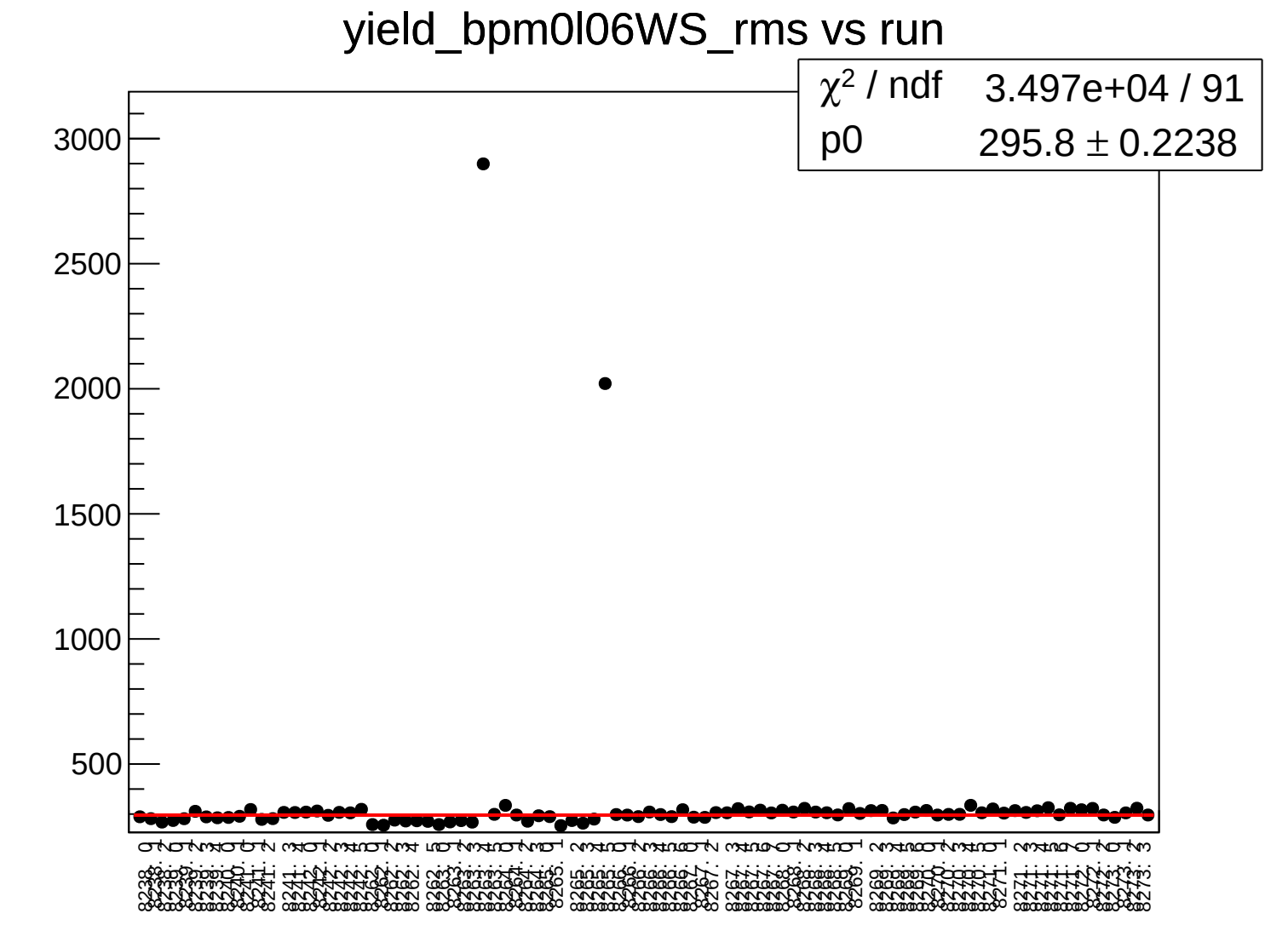

yield_bpm0l04WS_rms vs run
χ² / ndf 4.127e+04 / 91
p0 371.9 ± 0.2818
3000
2500
2000
1500
1000
500

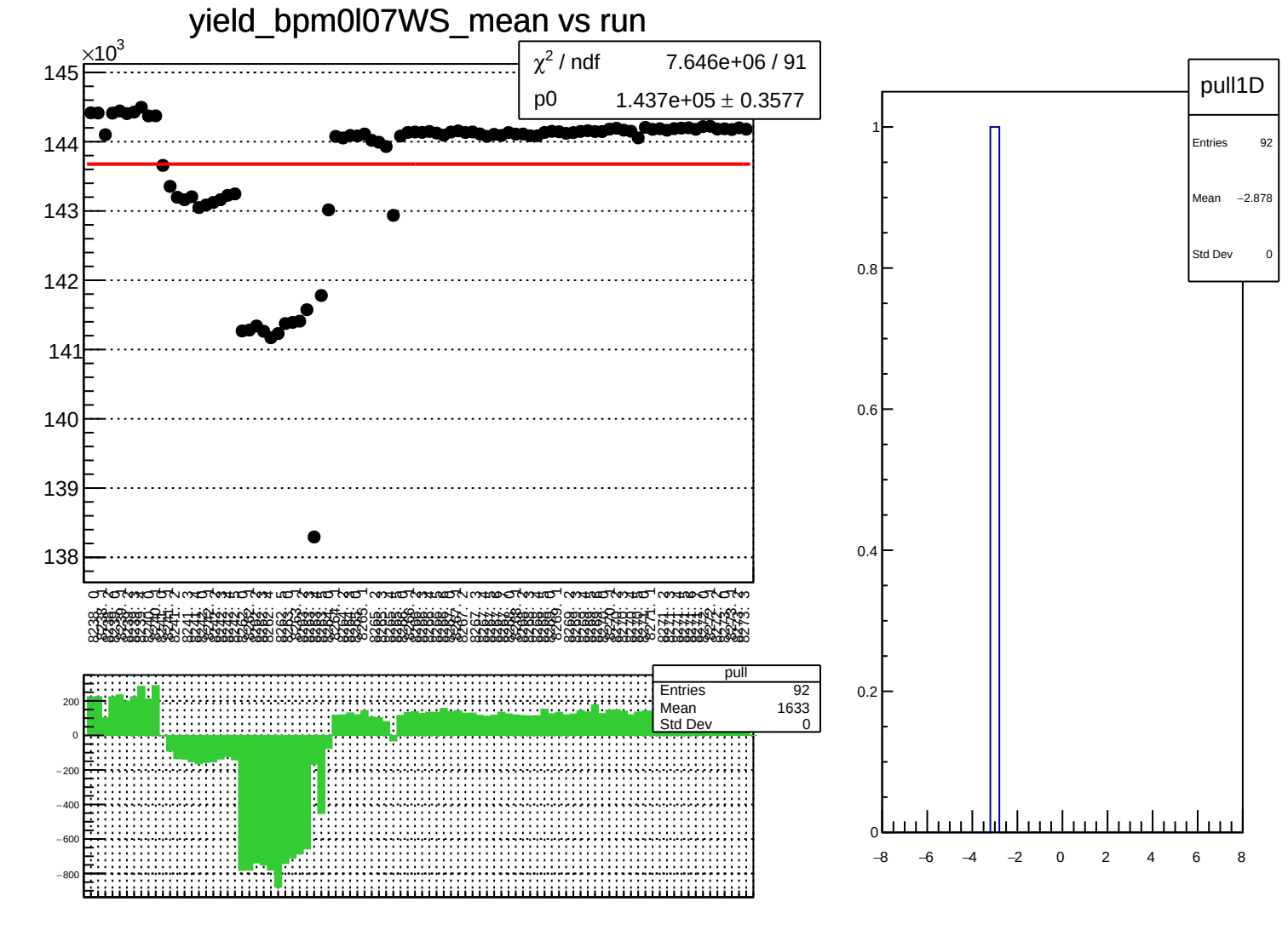

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 5.29e+05 / 91
p0 1.4e+05 ± 0.3319
140.5
140
139.5
139
138.5
138
137.5
137
136.5
pull
Entries 92
Mean 661.7
Std Dev 0
200
150
100
50
0
−50
−100
−150
pull1D
Entries 92
Mean 3.642
Std Dev 3.735
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

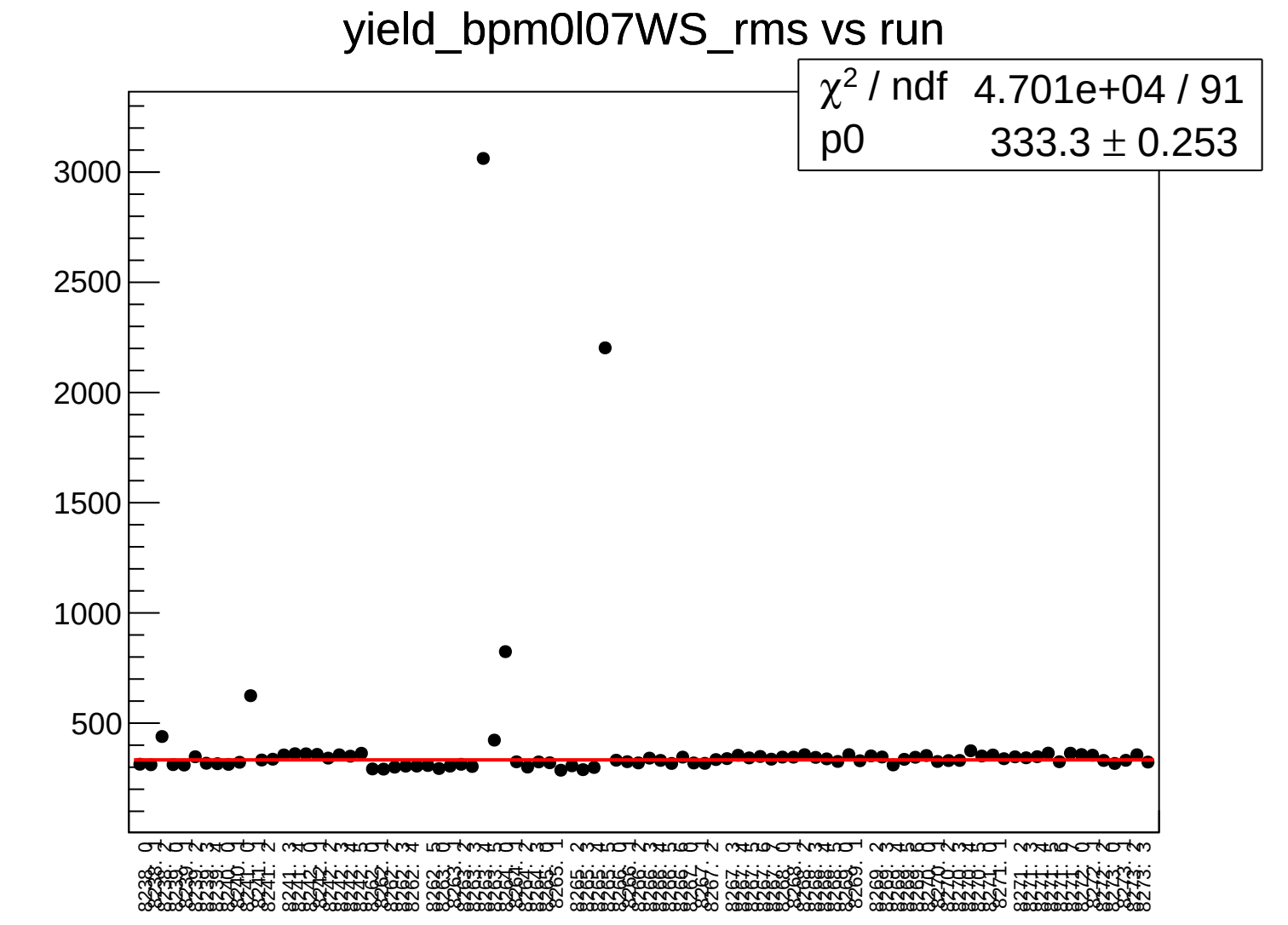

yield_bpm0l05WS_rms vs run
χ² / ndf 3.685e+04 / 91
p0 310.1 ± 0.2347
3000
2500
2000
1500
1000
500

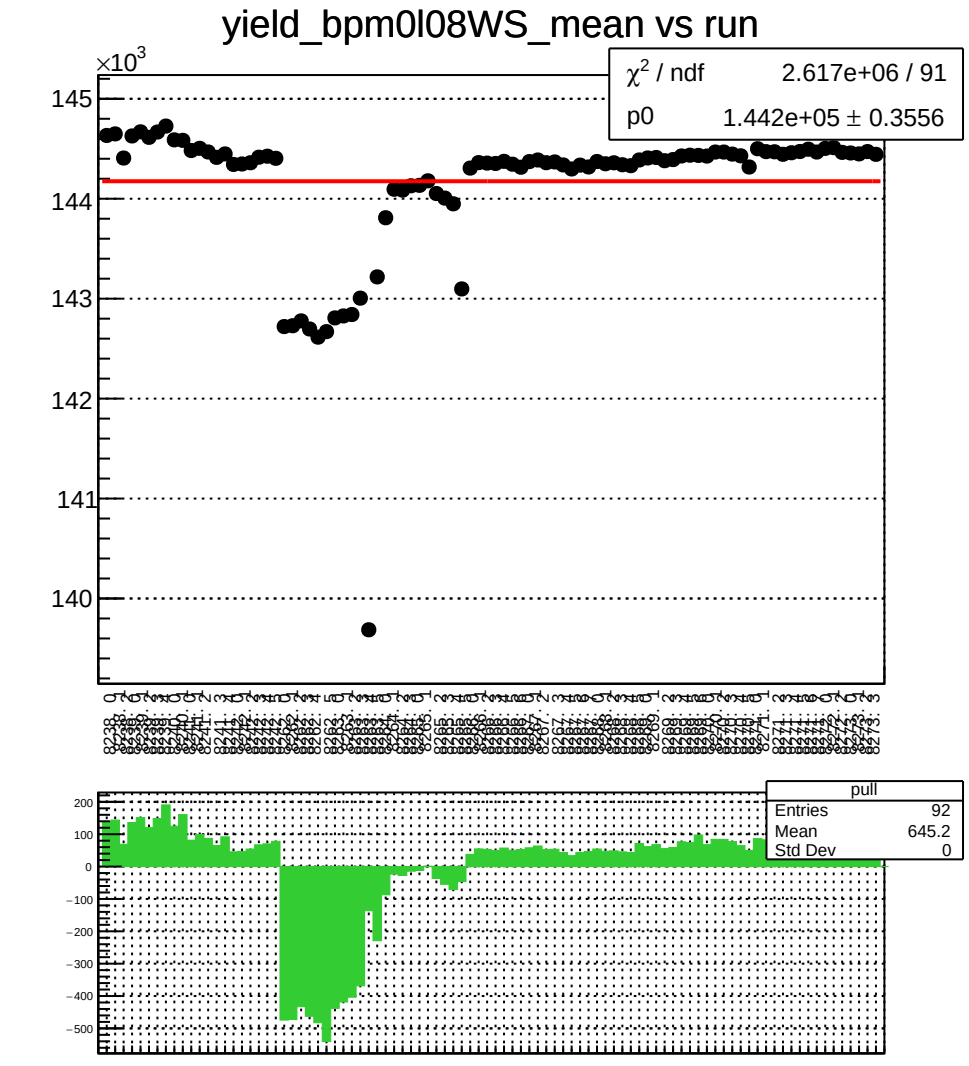

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 1.076e+05 / 91
p0 1.299e+05 ± 0.3164
130
129.5
129
128.5
128
127.5
127
pull
Entries 92
Mean 238.4
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

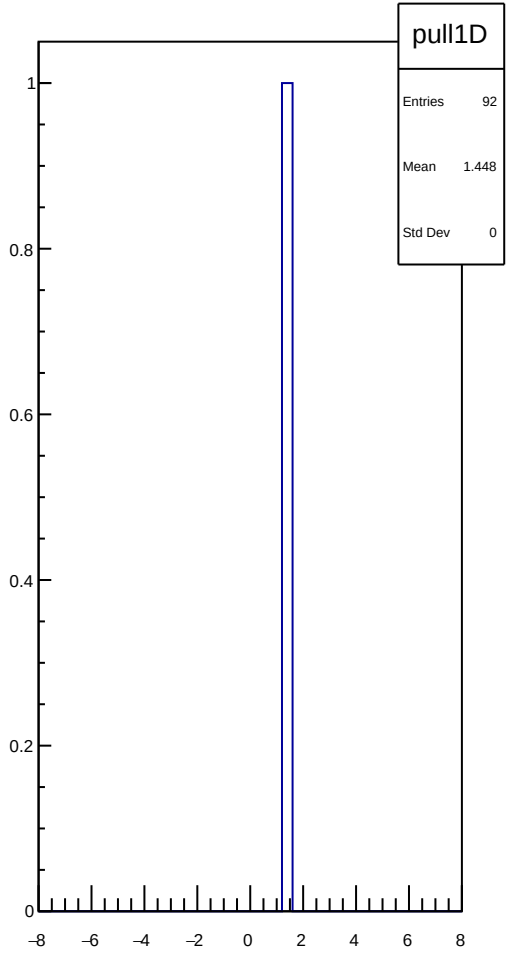

pull1D
Entries 92
Mean 0.345
Std Dev 4.18
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

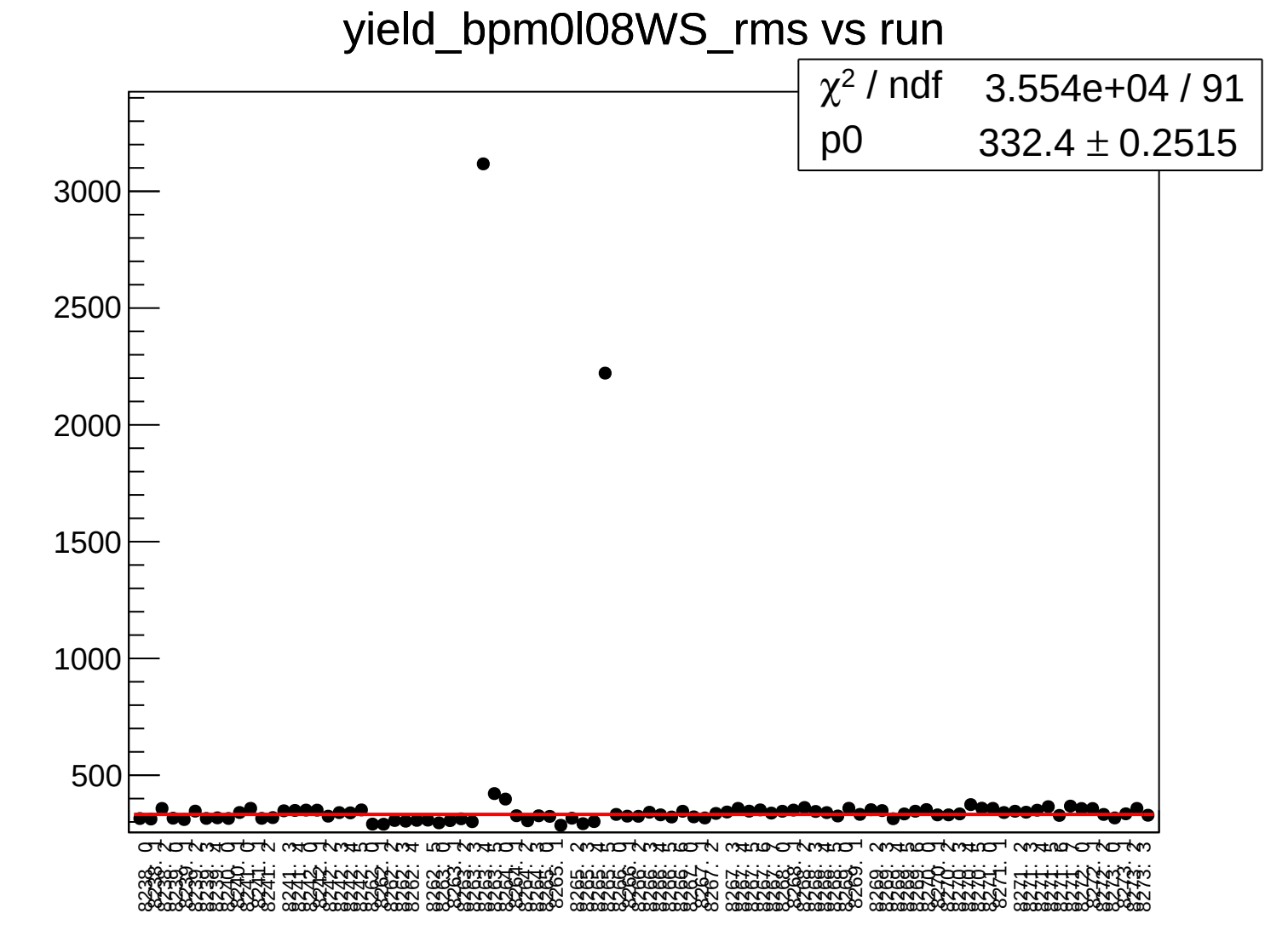

yield_bpm0l06WS_rms vs run
χ² / ndf 3.497e+04 / 91
p0 295.8 ± 0.2238
3000
2500
2000
1500
1000
500

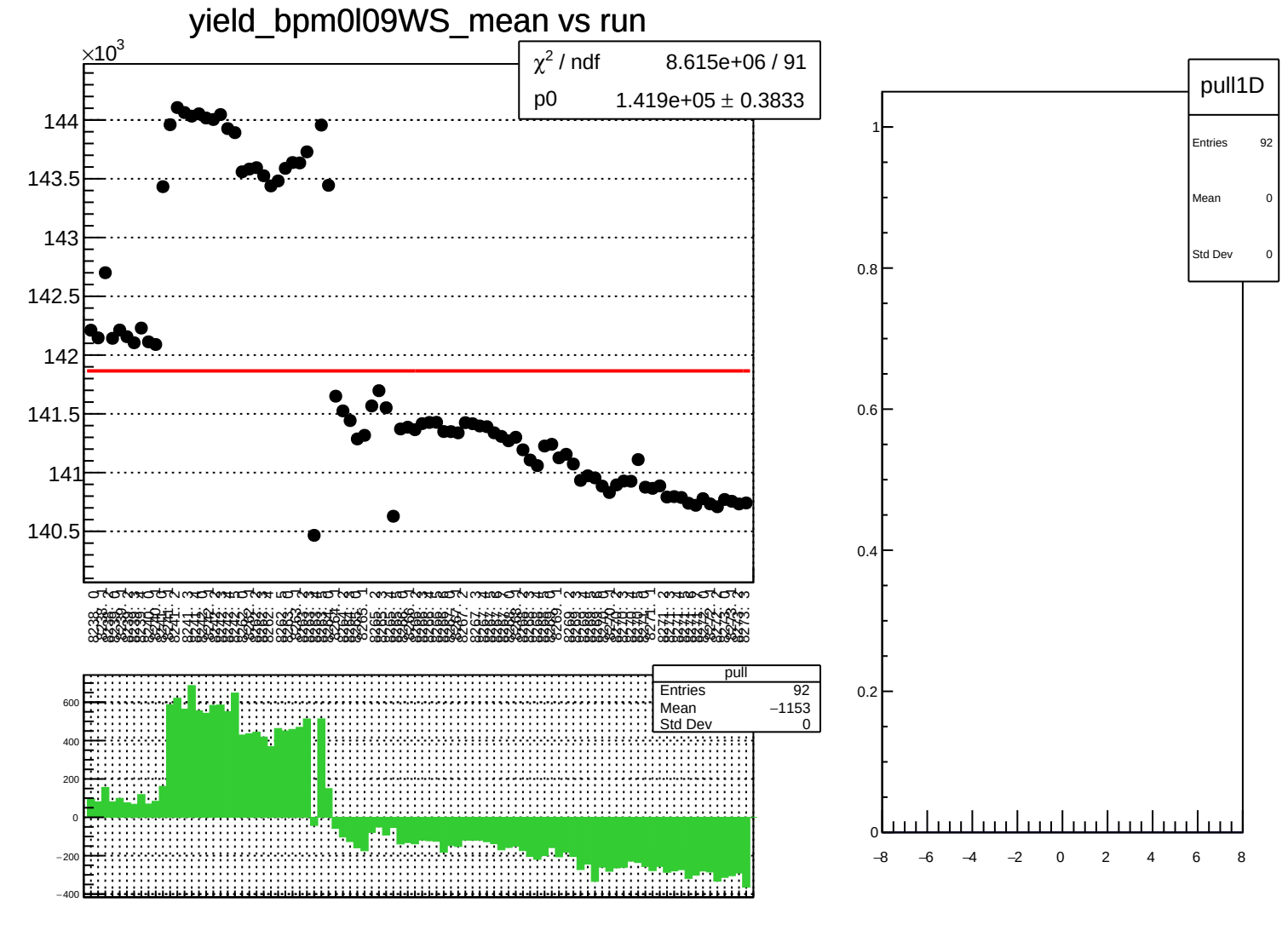

yield_bpm0l07WS_mean vs run
×10^3
145
144
143
142
141
140
139
138
χ² / ndf 7.646e+06 / 91
p0 1.437e+05 ± 0.3577
pull
Entries 92
Mean 1633
Std Dev 0
200
0
−200
−400
−600
−800
pull1D
Entries 92
Mean −2.878
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

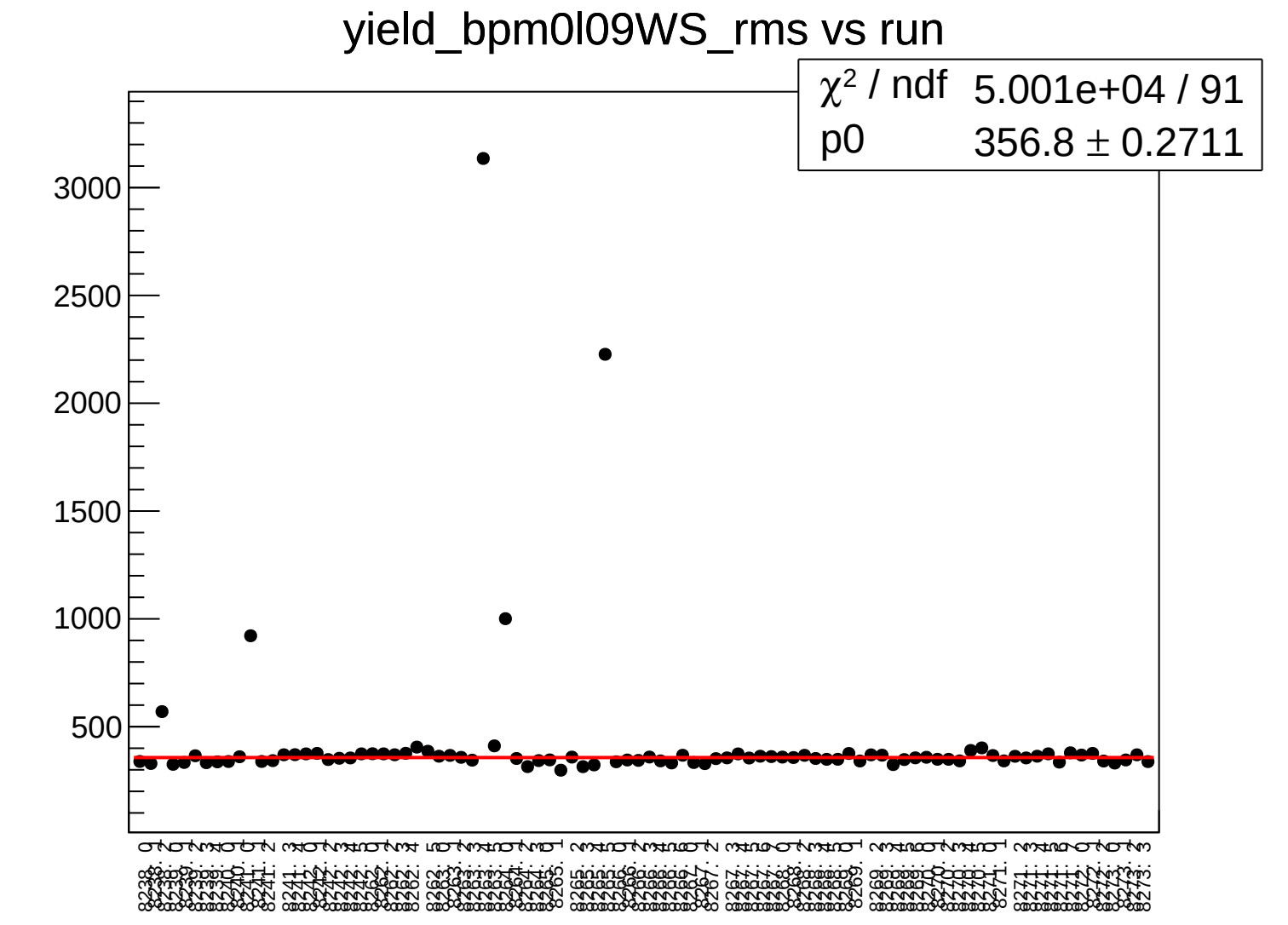

yield_bpm0l07WS_rms vs run
χ² / ndf 4.701e+04 / 91
p0 333.3 ± 0.253
3000
2500
2000
1500
1000
500

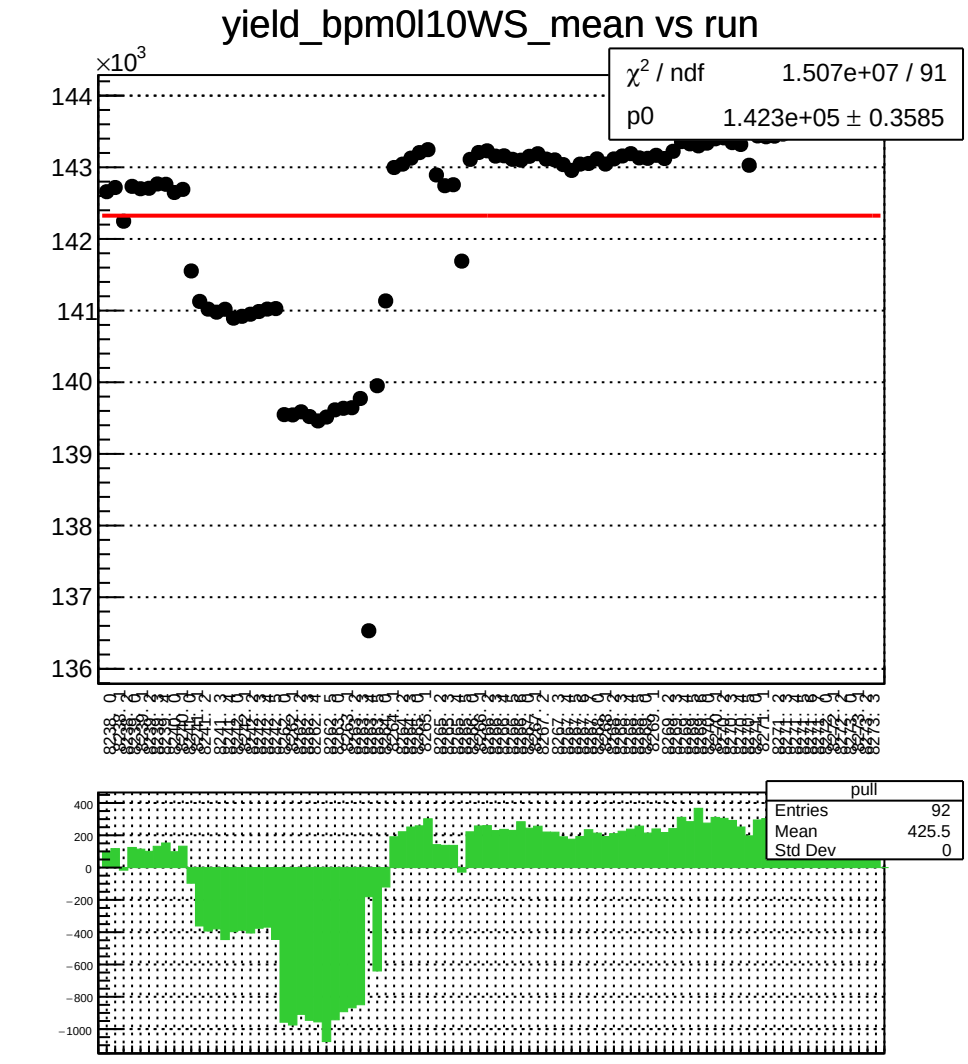

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 2.617e+06 / 91
p0 1.442e+05 ± 0.3556
145
144
143
142
141
140
pull
Entries 92
Mean 645.2
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

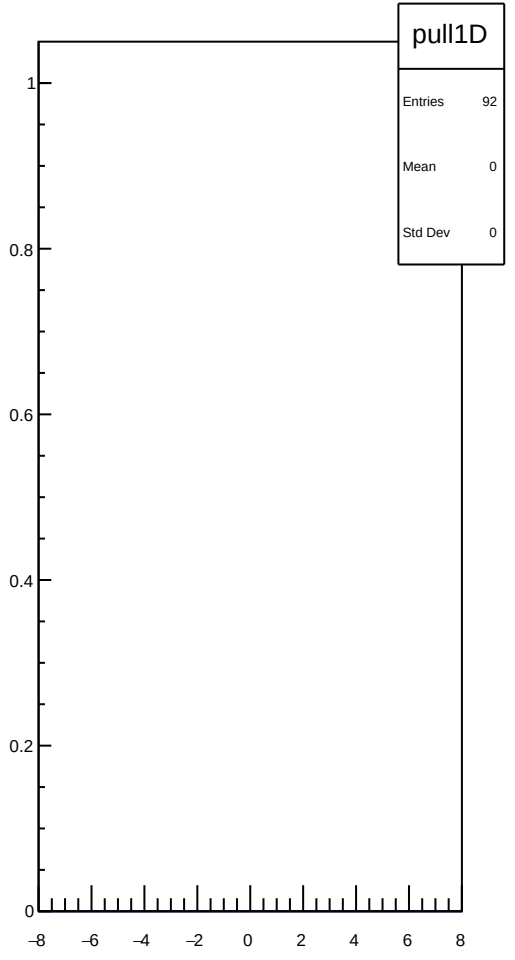

pull1D
Entries 92
Mean 1.448
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

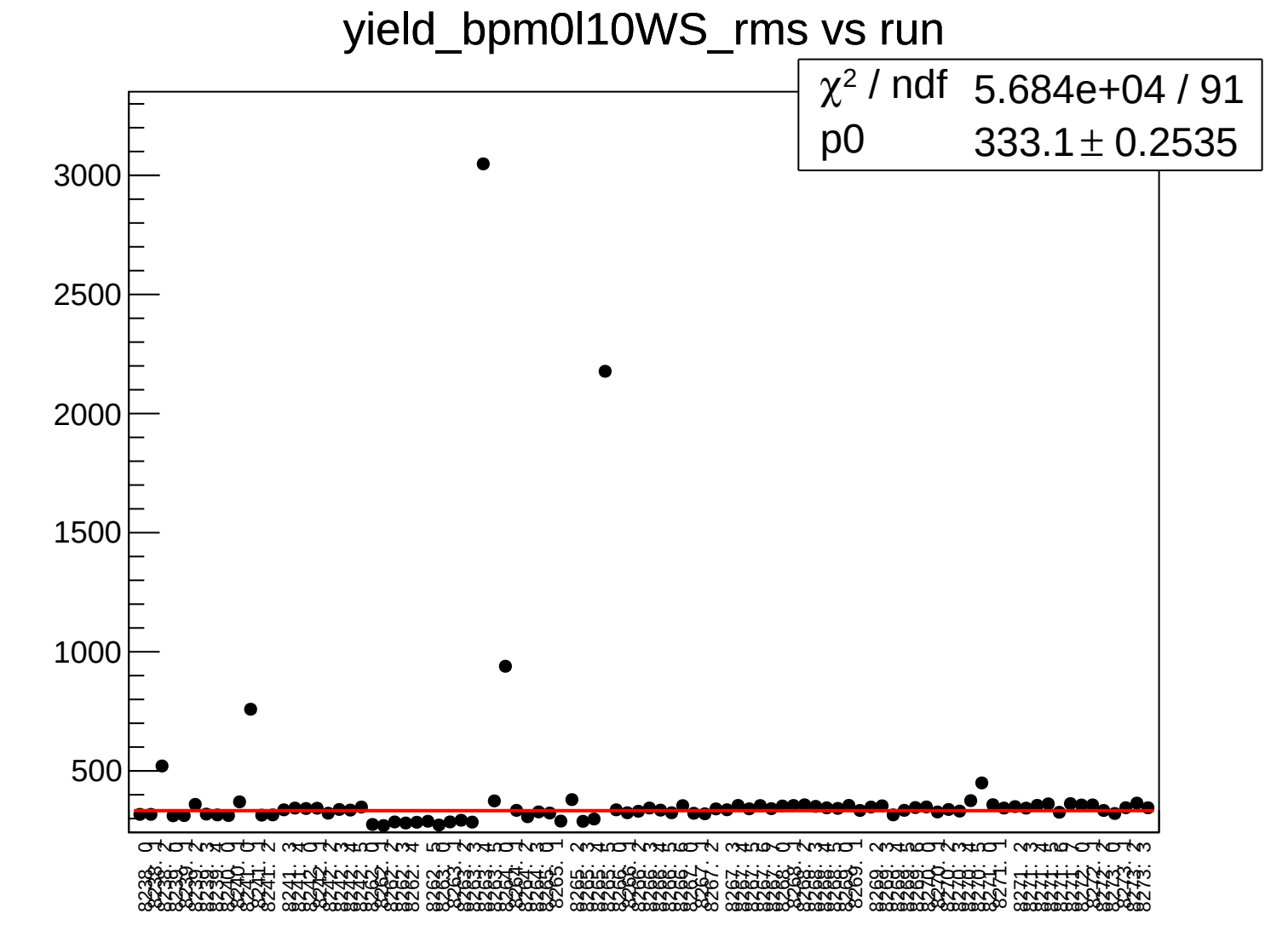

yield_bpm0l08WS_rms vs run
χ² / ndf 3.554e+04 / 91
p0 332.4 ± 0.2515
3000
2500
2000
1500
1000
500

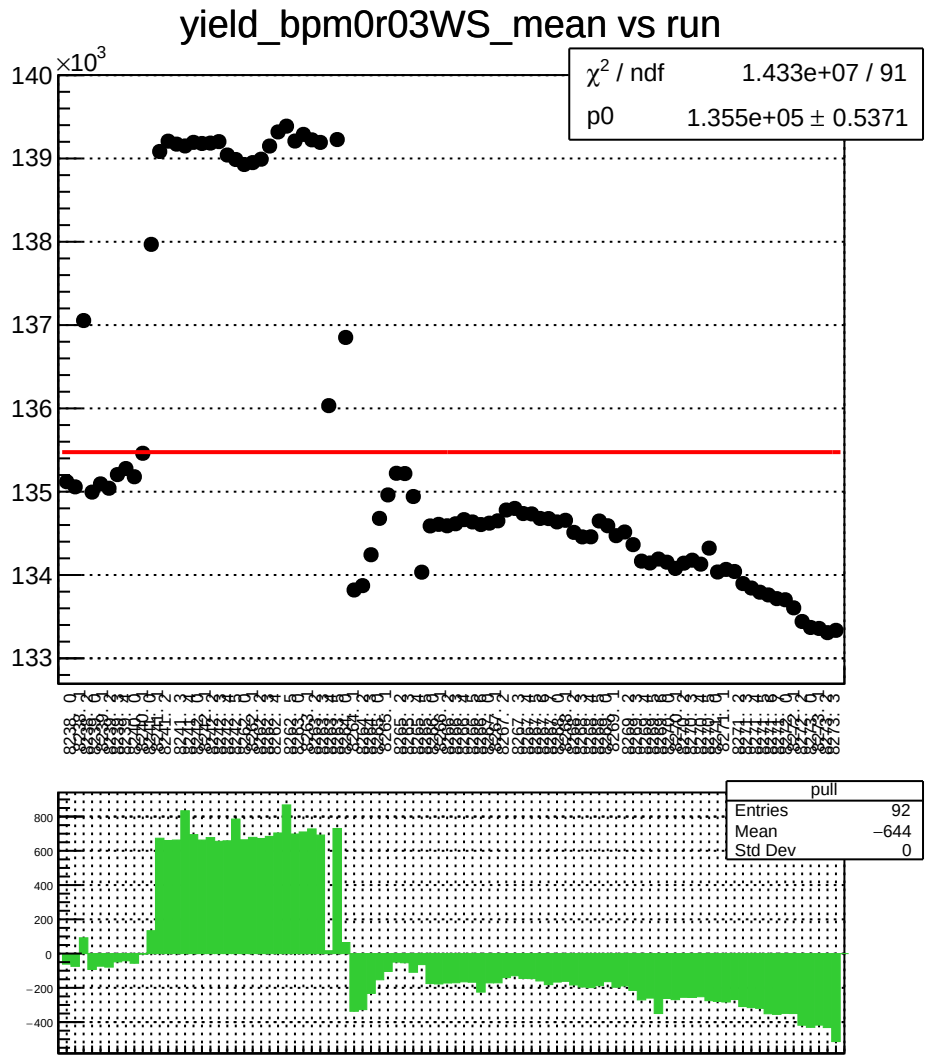

yield_bpm0l09WS_mean vs run
×10^3
χ^2 / ndf 8.615e+06 / 91
p0 1.419e+05 ± 0.3833
144
143.5
143
142.5
142
141.5
141
140.5
pull
Entries 92
Mean −1153
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

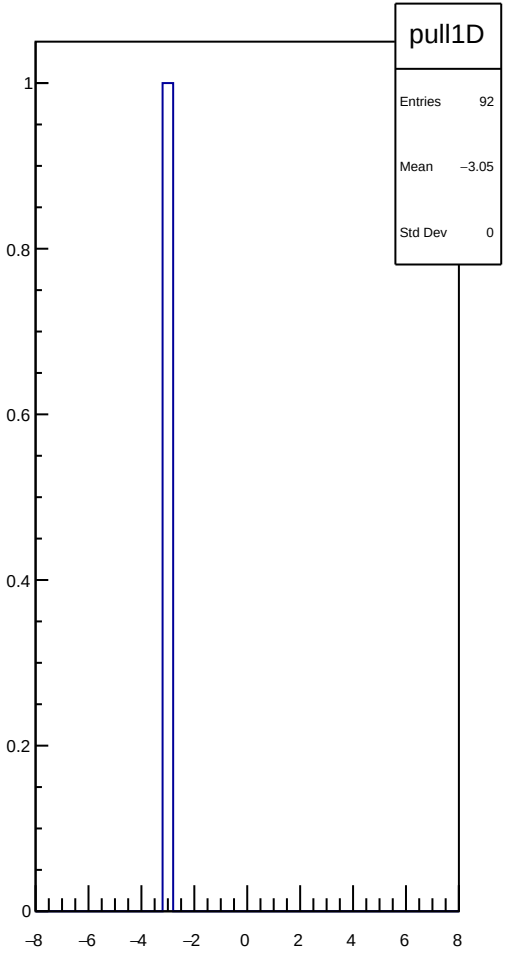

yield_bpm0l09WS_rms vs run
χ² / ndf 5.001e+04 / 91
p0 356.8 ± 0.2711
3000
2500
2000
1500
1000
500

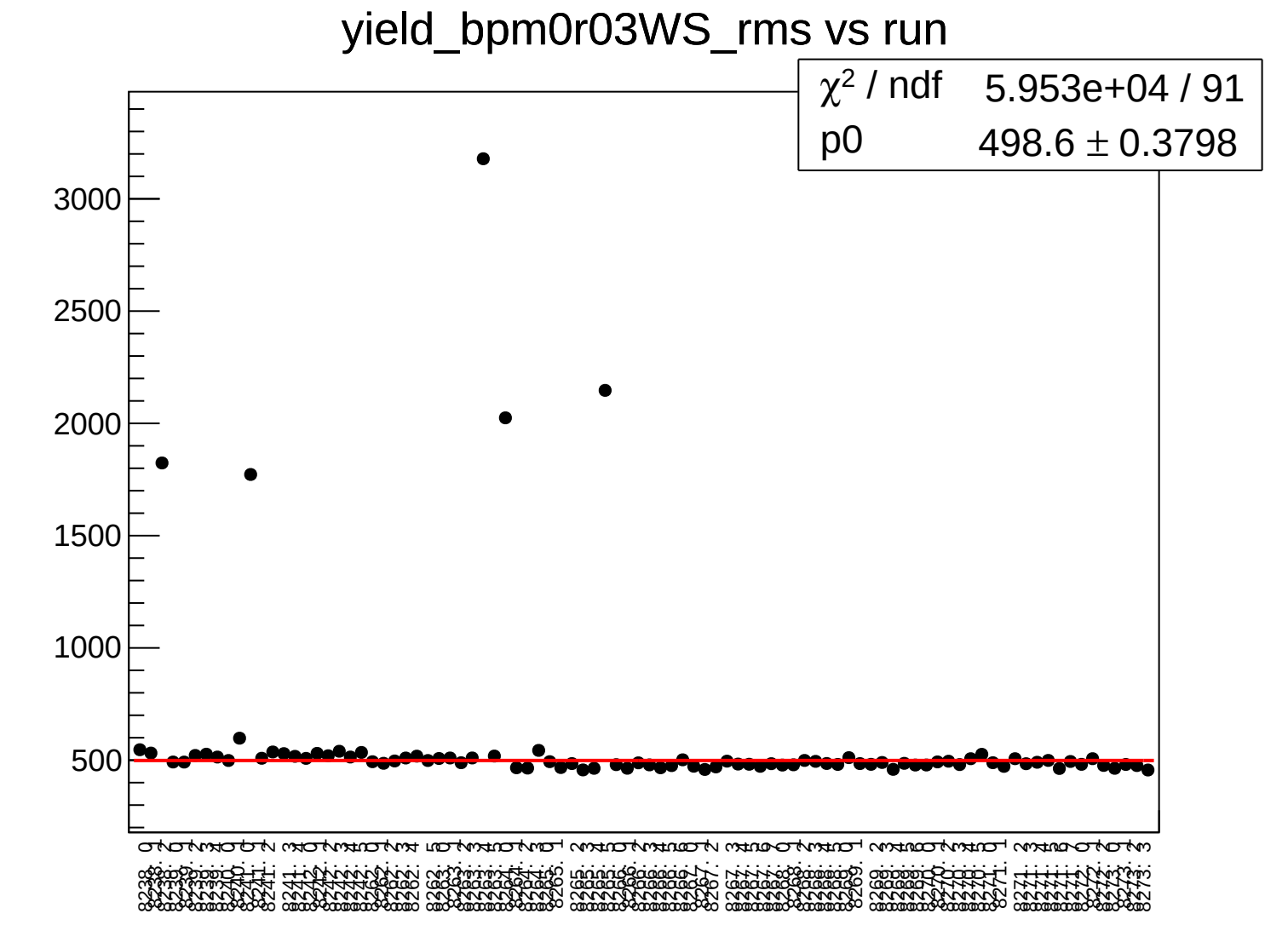

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 1.507e+07 / 91
p0 1.423e+05 ± 0.3585
144
143
142
141
140
139
138
137
136
pull
Entries 92
Mean 425.5
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000

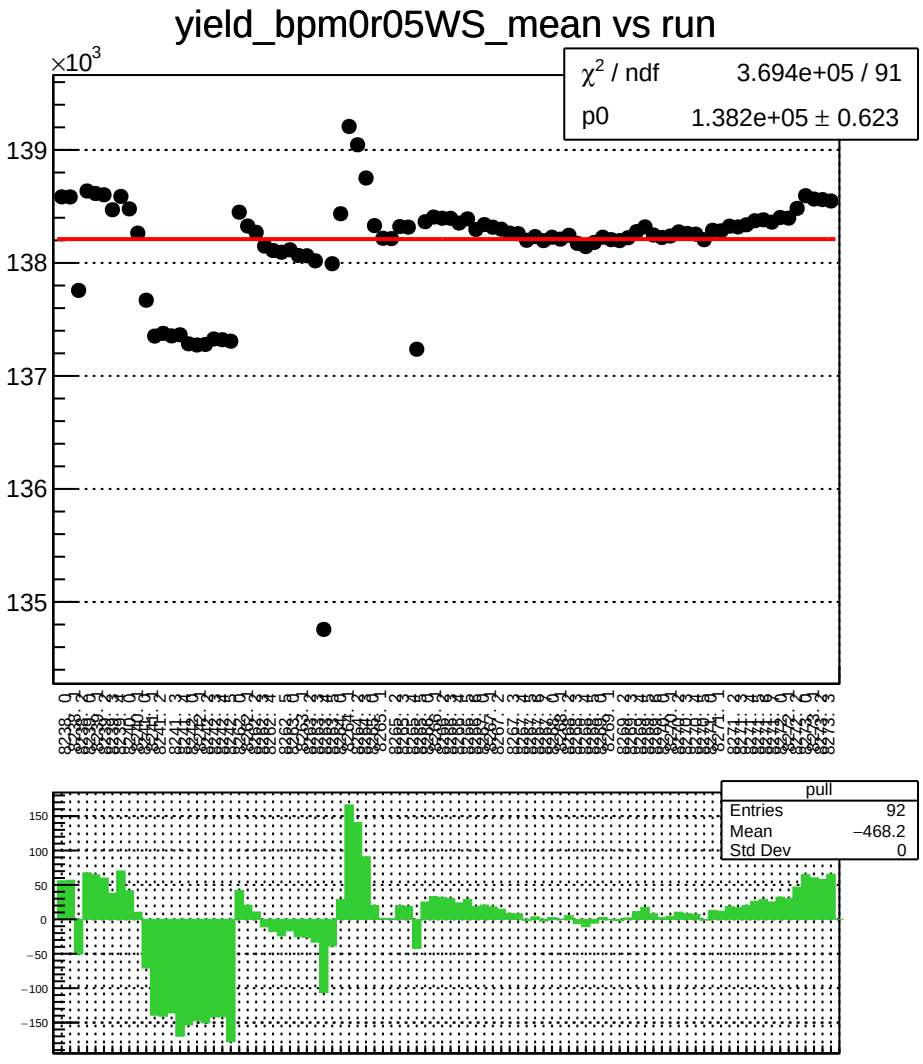

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

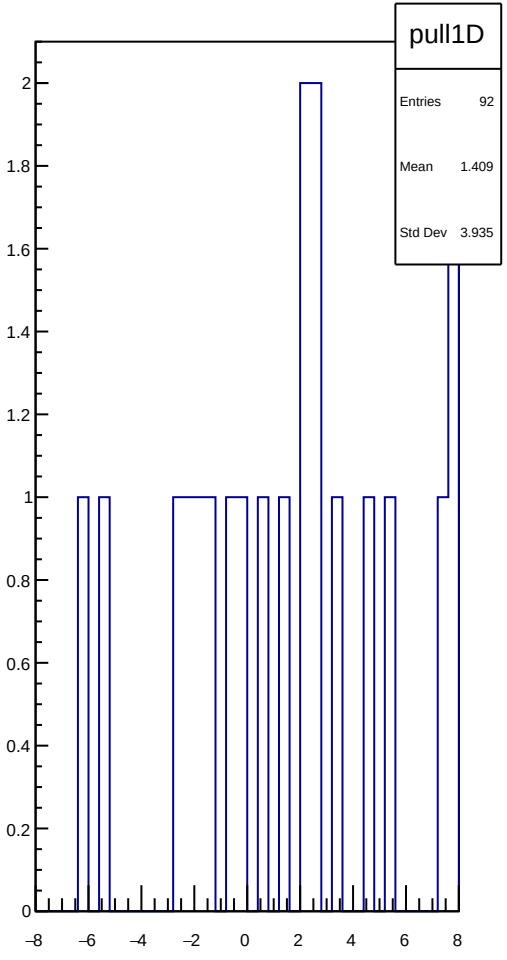

yield_bpm0l10WS_rms vs run
χ² / ndf 5.684e+04 / 91
p0 333.1 ± 0.2535
3000
2500
2000
1500
1000
500

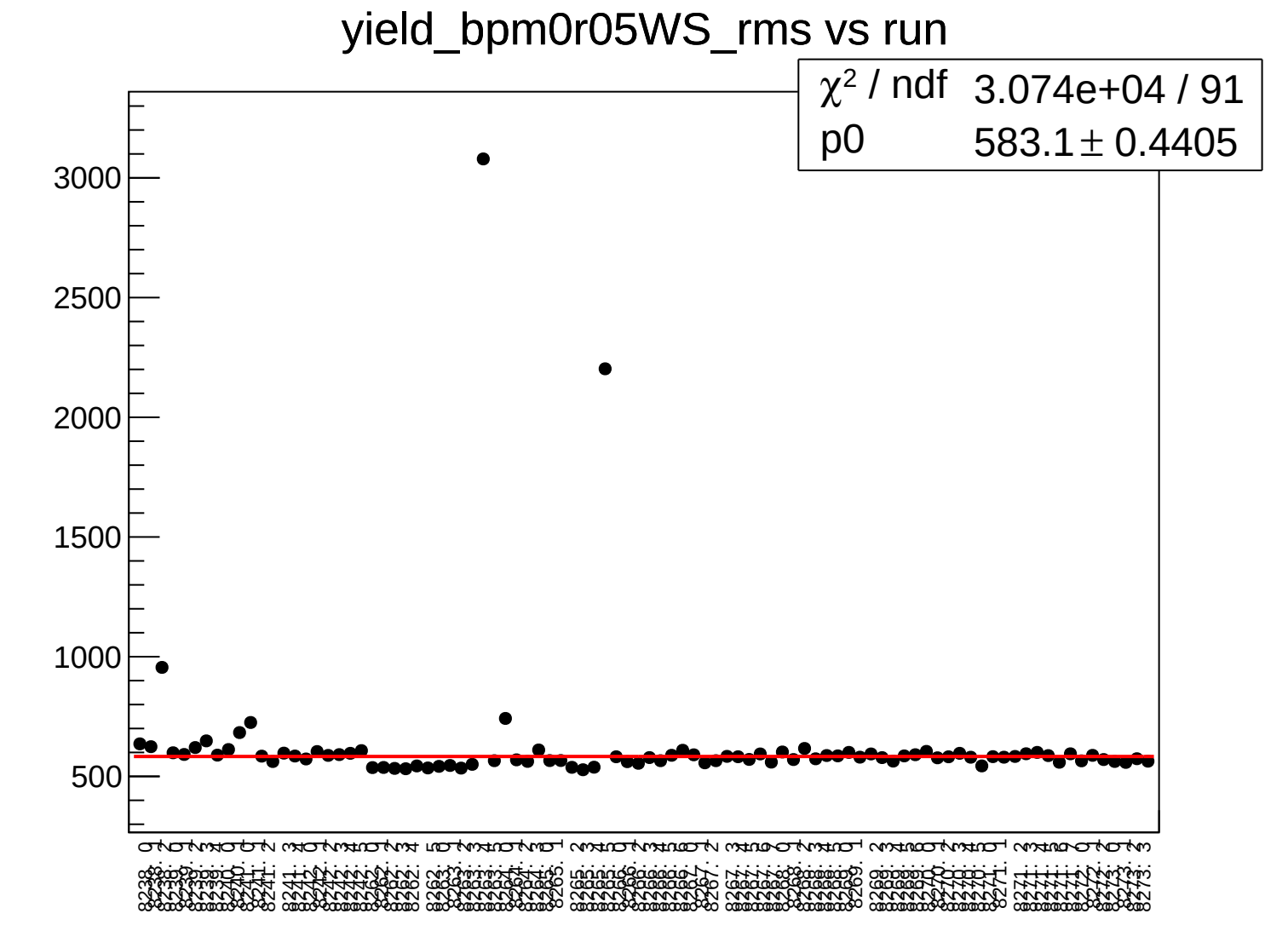

yield_bpm0r03WS_mean vs run
χ² / ndf 1.433e+07 / 91
p0 1.355e+05 ± 0.5371
×10³
140
139
138
137
136
135
134
133
pull
Entries 92
Mean −644
Std Dev 0
800
600
400
200
0
−200
−400

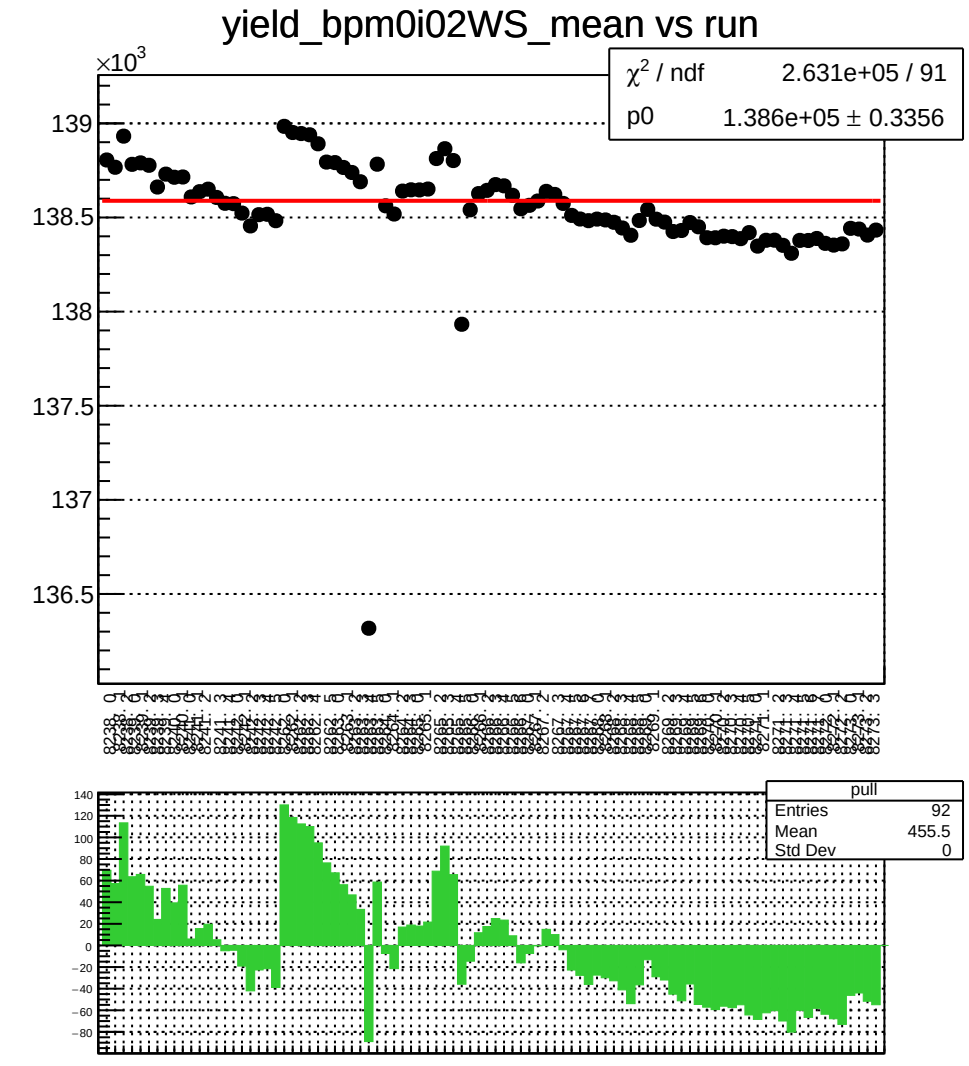

pull1D
Entries 92
Mean −3.05
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

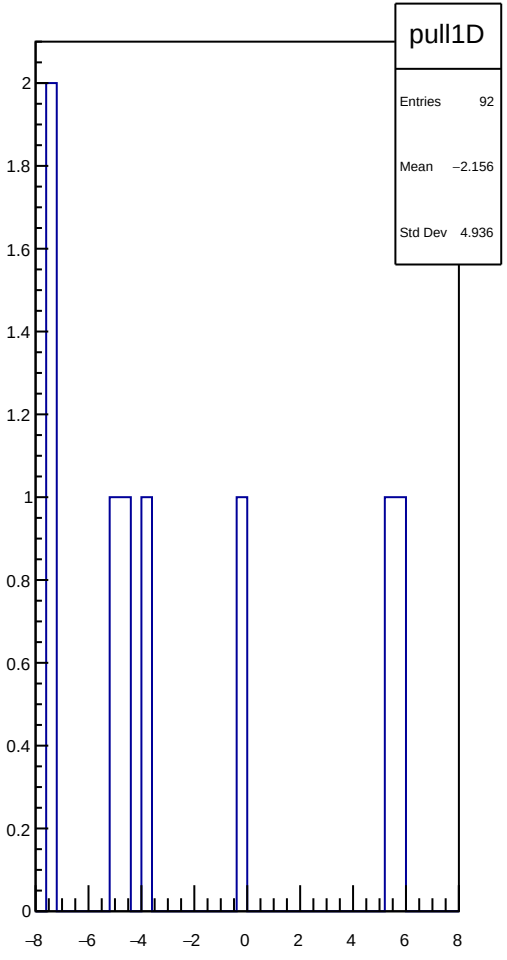

yield_bpm0r03WS_rms vs run
χ² / ndf 5.953e+04 / 91
p0 498.6 ± 0.3798
3000
2500
2000
1500
1000
500

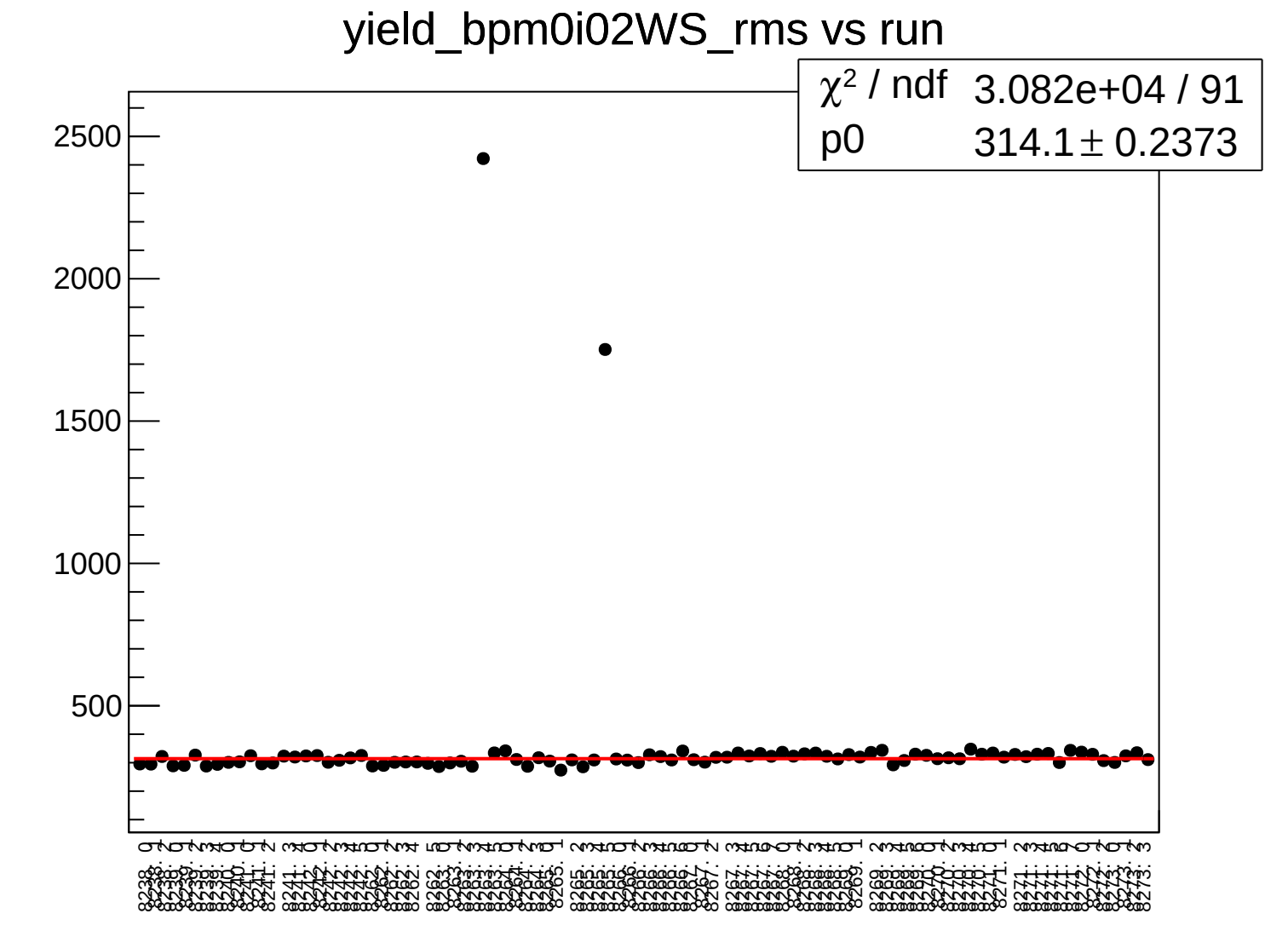

yield_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 3.694e+05 / 91
p0 1.382e+05 ± 0.623
139
138
137
136
135
pull
Entries 92
Mean −468.2
Std Dev 0
150
100
50
0
−50
−100
−150

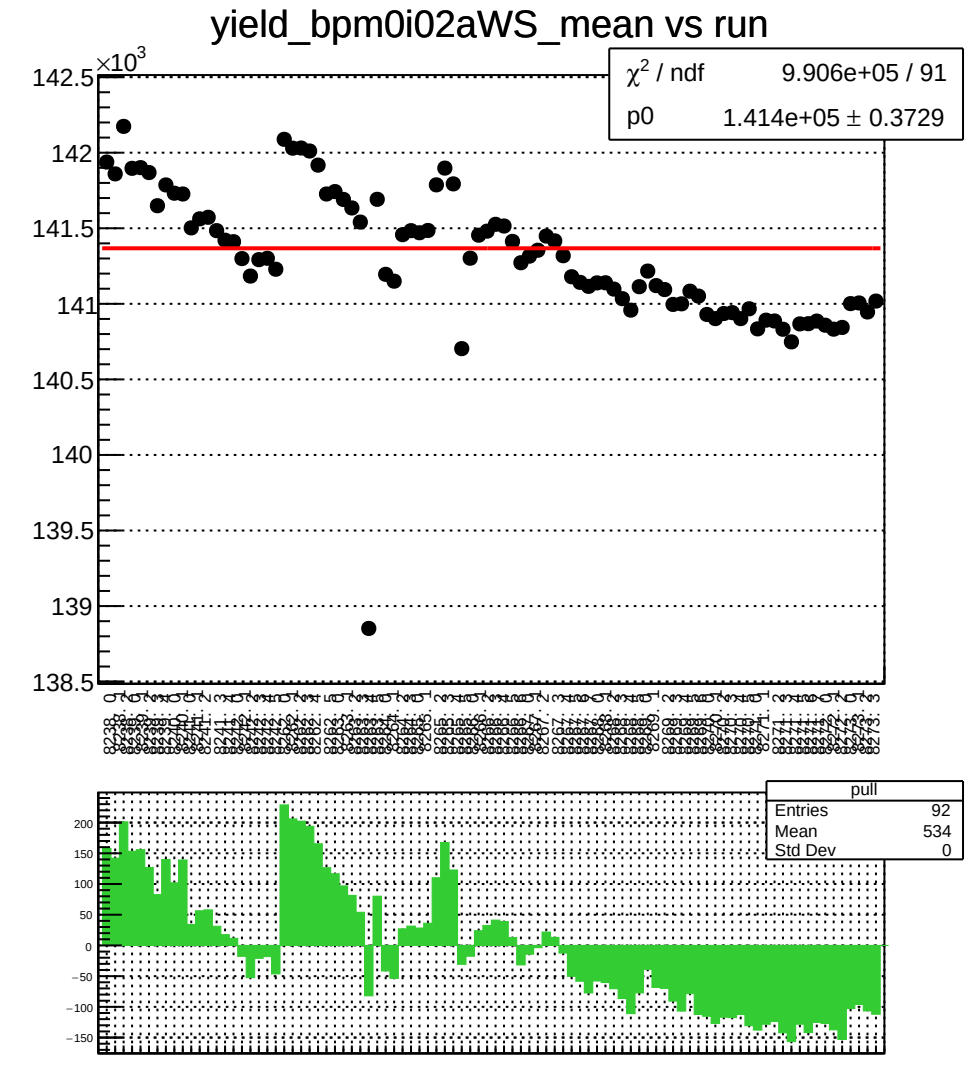

pull1D
Entries 92
Mean 1.409
Std Dev 3.935
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

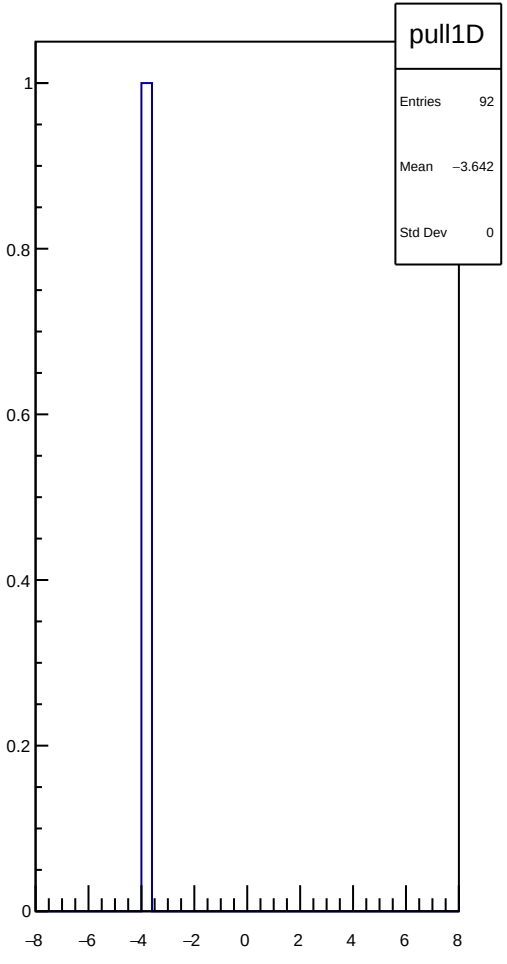

yield_bpm0r05WS_rms vs run
χ² / ndf 3.074e+04 / 91
p0 583.1 ± 0.4405
3000
2500
2000
1500
1000
500

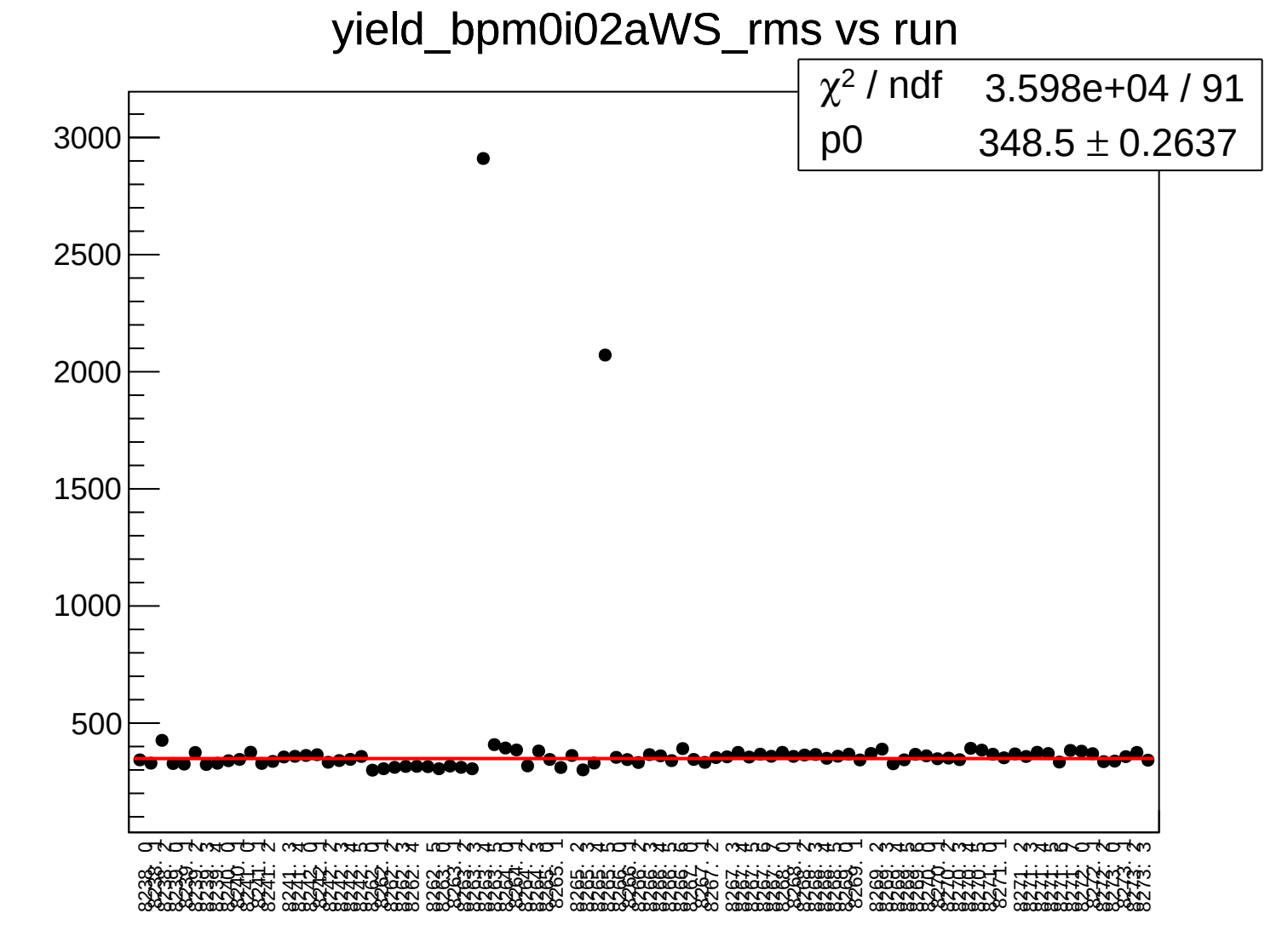

yield_bpm0i02WS_mean vs run
×10^3
χ^2 / ndf 2.631e+05 / 91
p0 1.386e+05 ± 0.3356
139
138.5
138
137.5
137
136.5
pull
Entries 92
Mean 455.5
Std Dev 0
140
120
100
80
60
40
20
0
−20
−40
−60
−80

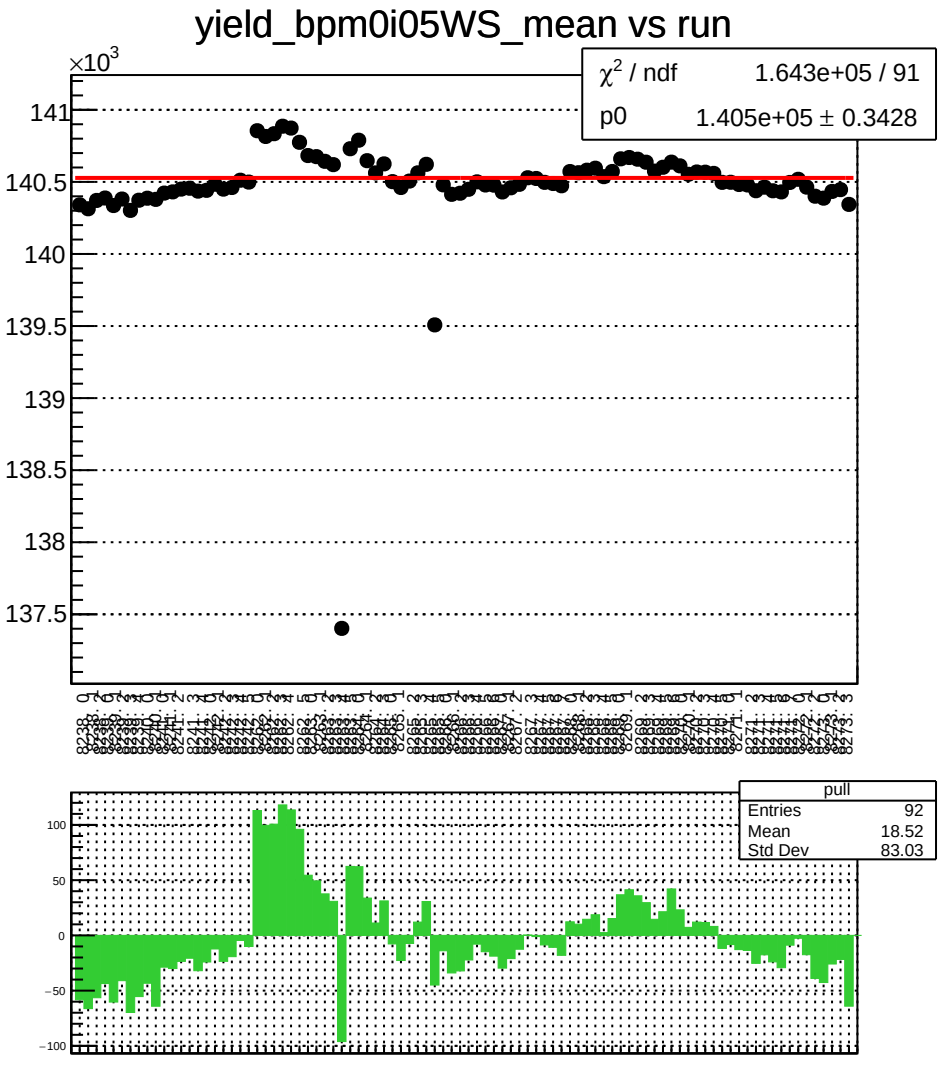

pull1D
Entries 92
Mean −2.156
Std Dev 4.936
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

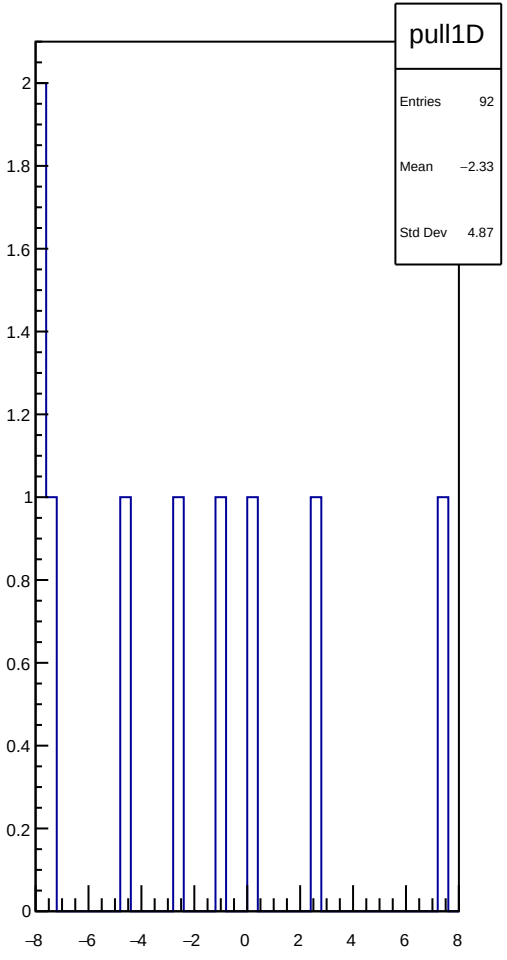

yield_bpm0i02WS_rms vs run
χ² / ndf 3.082e+04 / 91
p0 314.1 ± 0.2373
2500
2000
1500
1000
500

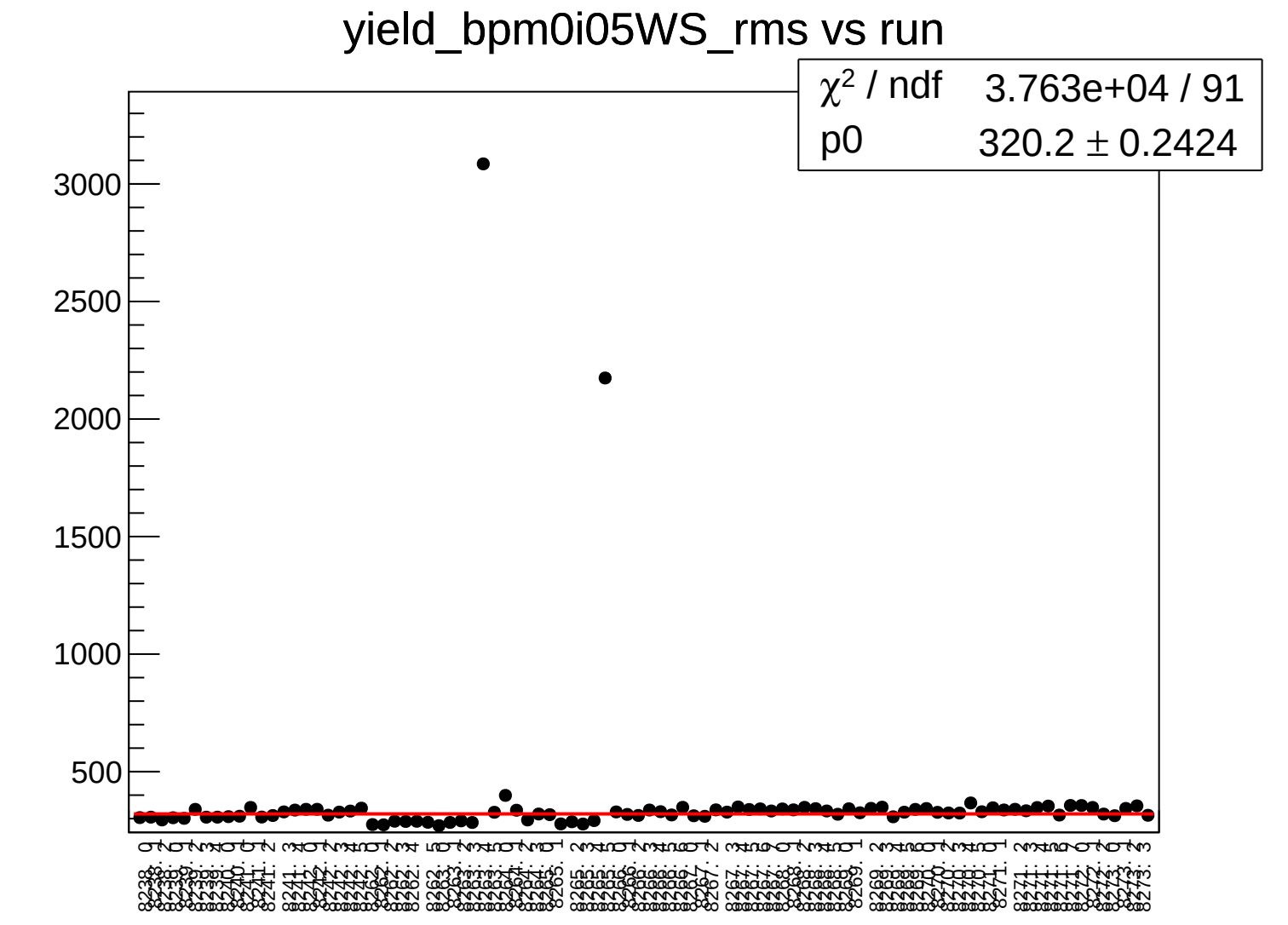

yield_bpm0i02aWS_mean vs run
×10^3
142.5
142
141.5
141
140.5
140
139.5
139
138.5
χ² / ndf 9.906e+05 / 91
p0 1.414e+05 ± 0.3729
pull
Entries 92
Mean 534
Std Dev 0
200
150
100
50
0
−50
−100
−150

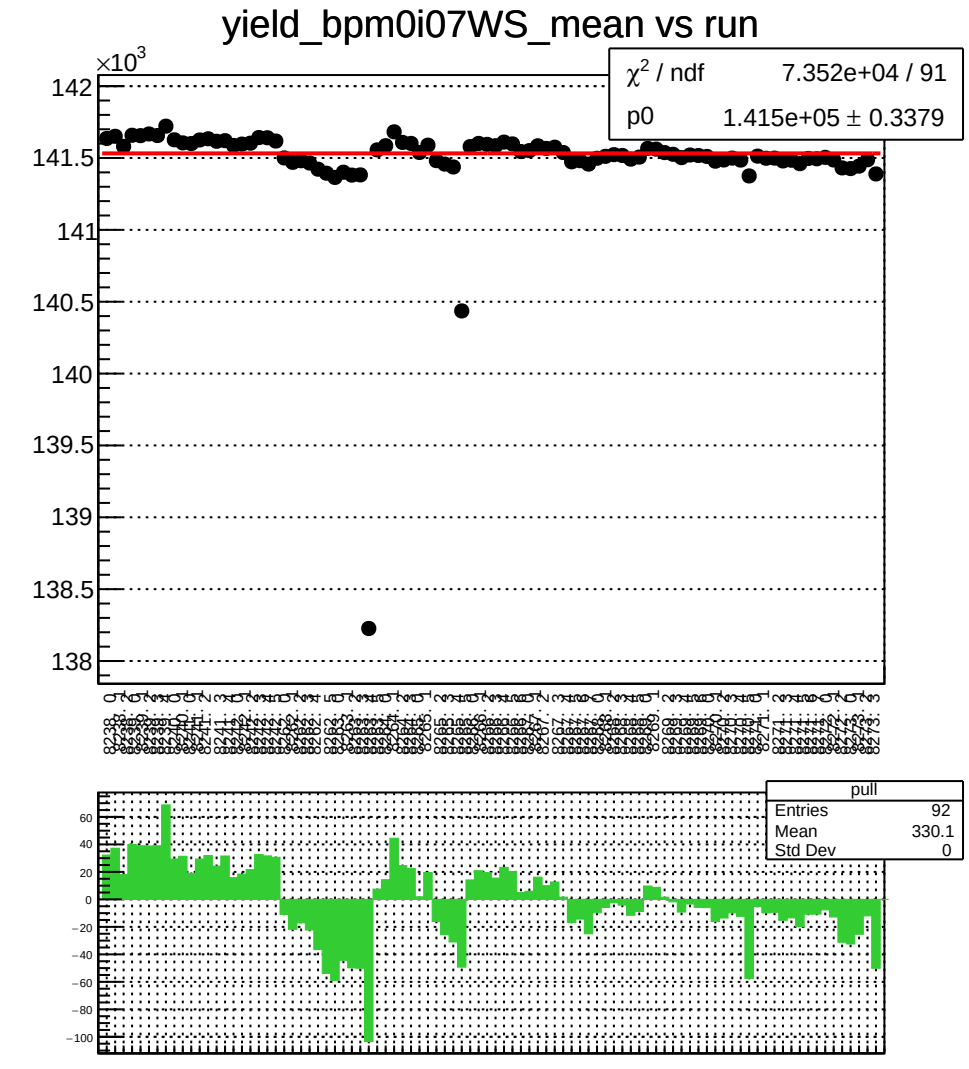

pull1D
Entries 92
Mean −3.642
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

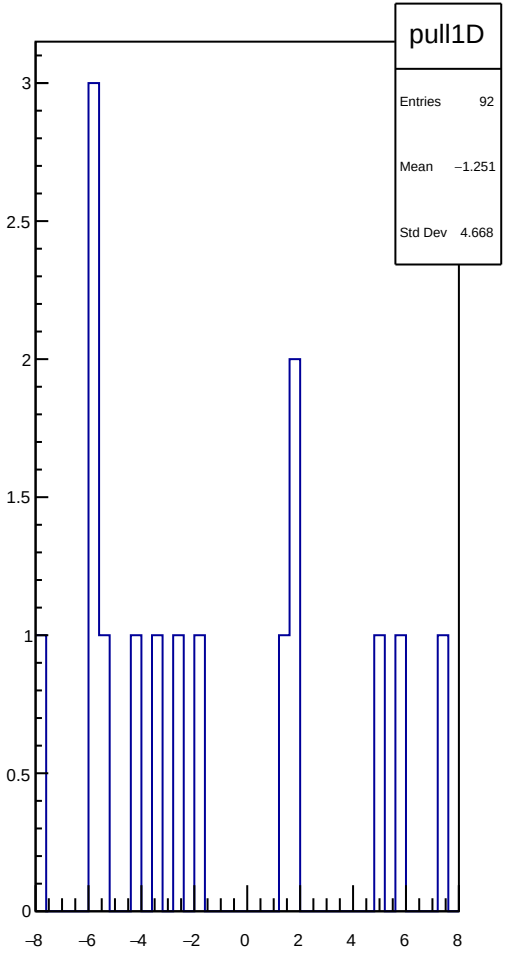

yield_bpm0i02aWS_rms vs run
χ² / ndf 3.598e+04 / 91
p0 348.5 ± 0.2637
3000
2500
2000
1500
1000
500

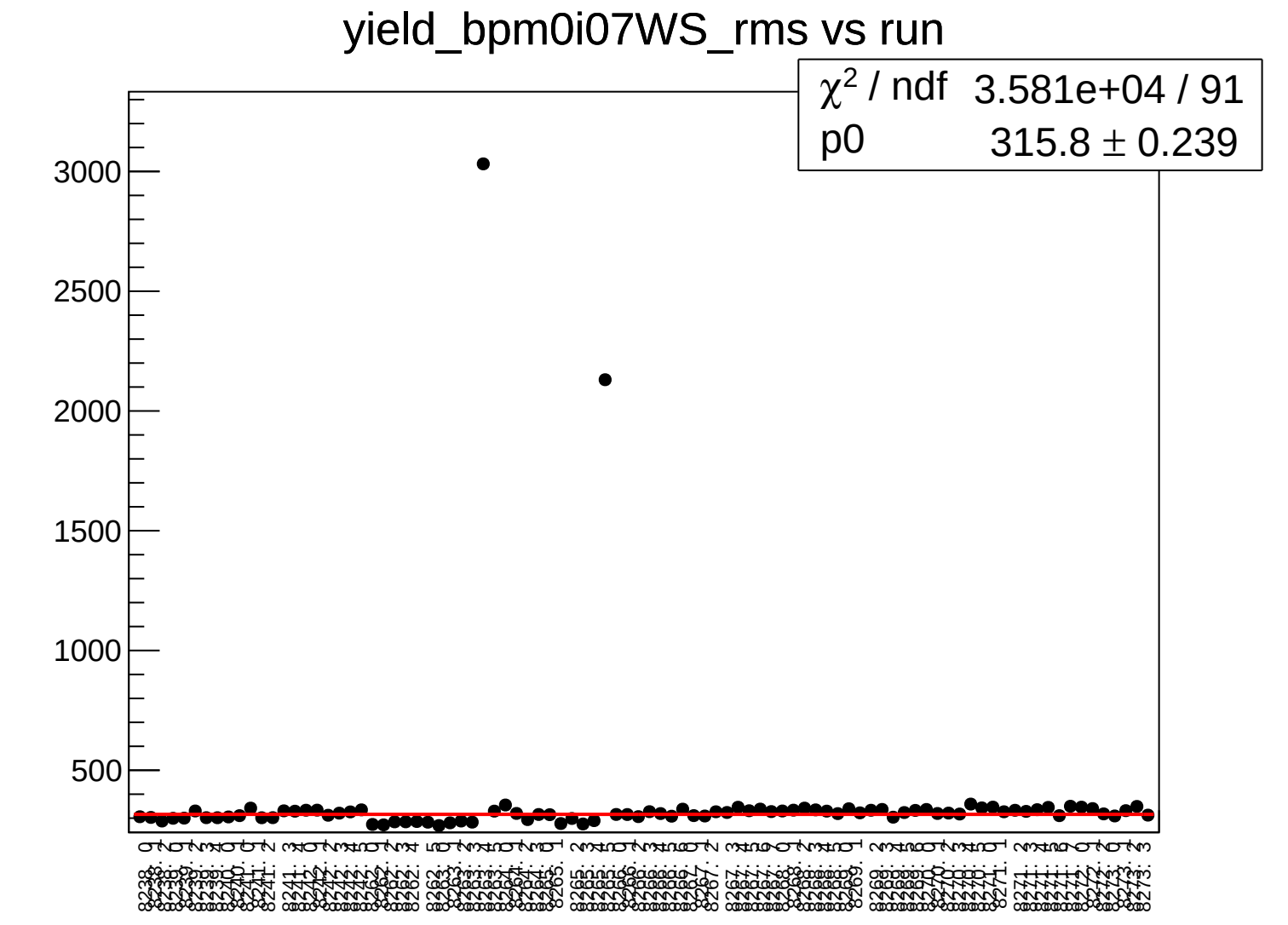

yield_bpm0i05WS_mean vs run
×10^3
χ^2 / ndf 1.643e+05 / 91
p0 1.405e+05 ± 0.3428
141
140.5
140
139.5
139
138.5
138
137.5
pull
Entries 92
Mean 18.52
Std Dev 83.03
100
50
0
−50
−100

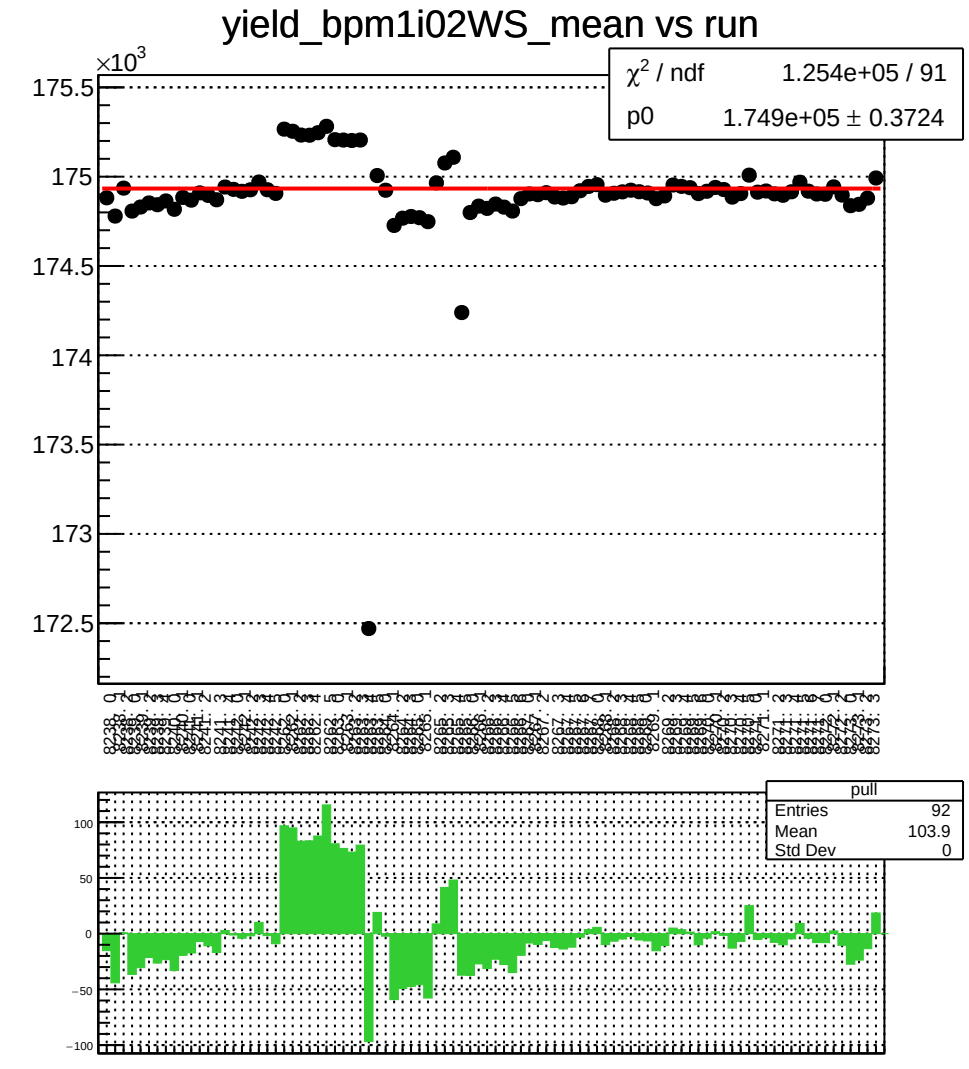

pull1D
Entries 92
Mean −2.33
Std Dev 4.87
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

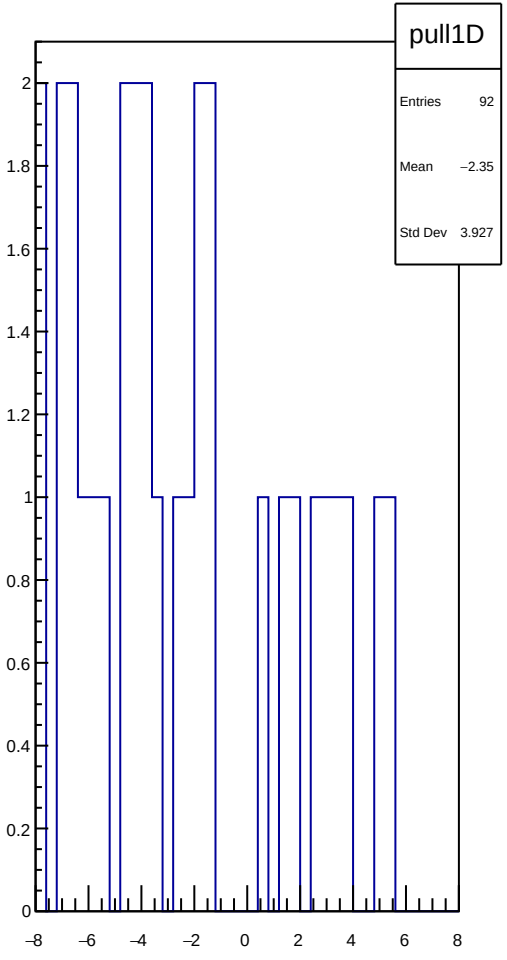

yield_bpm0i05WS_rms vs run
χ² / ndf 3.763e+04 / 91
p0 320.2 ± 0.2424
3000
2500
2000
1500
1000
500

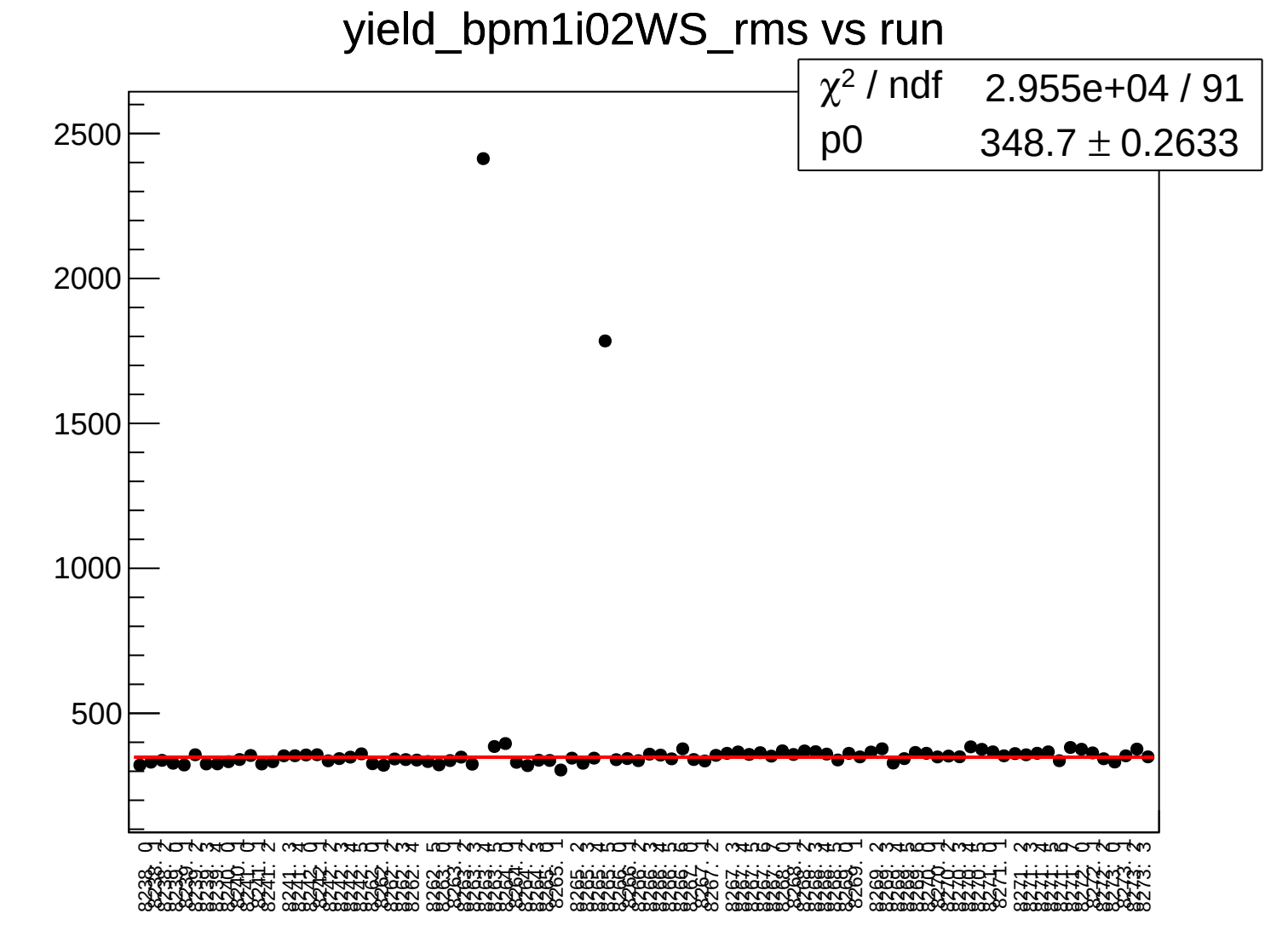

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 7.352e+04 / 91
p0 1.415e+05 ± 0.3379
142
141.5
141
140.5
140
139.5
139
138.5
138
pull
Entries 92
Mean 330.1
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

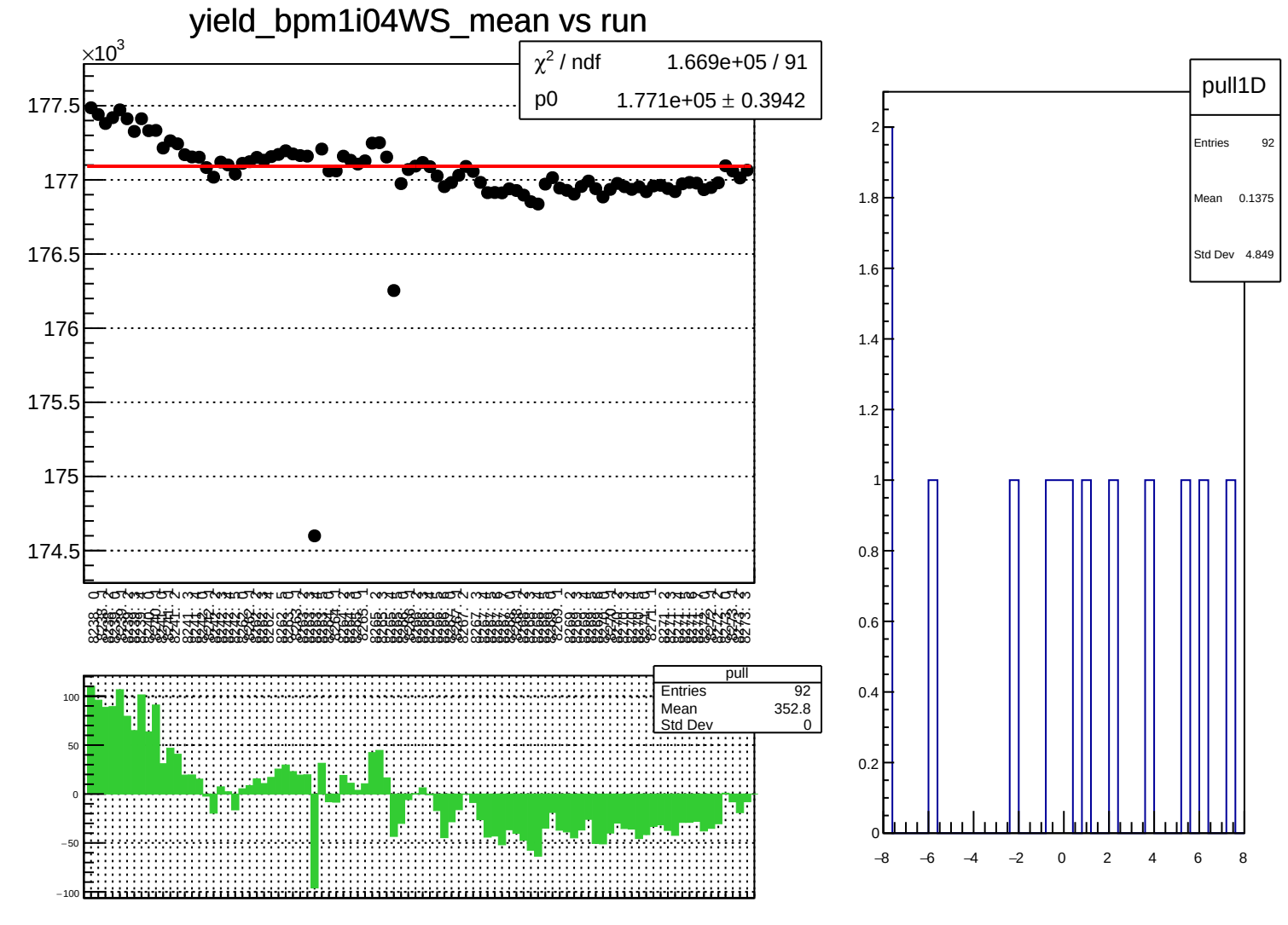

pull1D
Entries 92
Mean −1.251
Std Dev 4.668
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

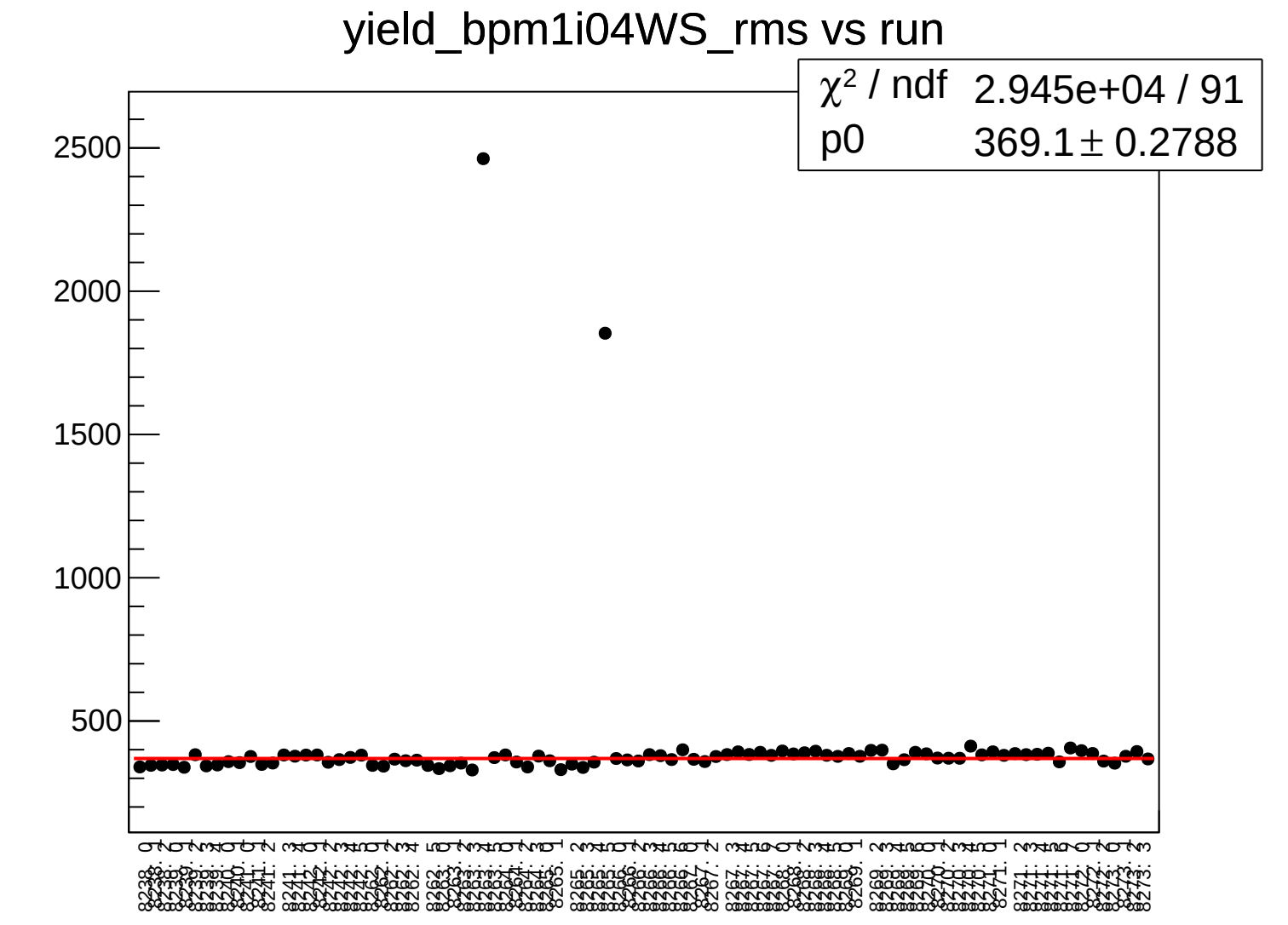

yield_bpm0i07WS_rms vs run
χ² / ndf 3.581e+04 / 91
p0 315.8 ± 0.239
3000
2500
2000
1500
1000
500

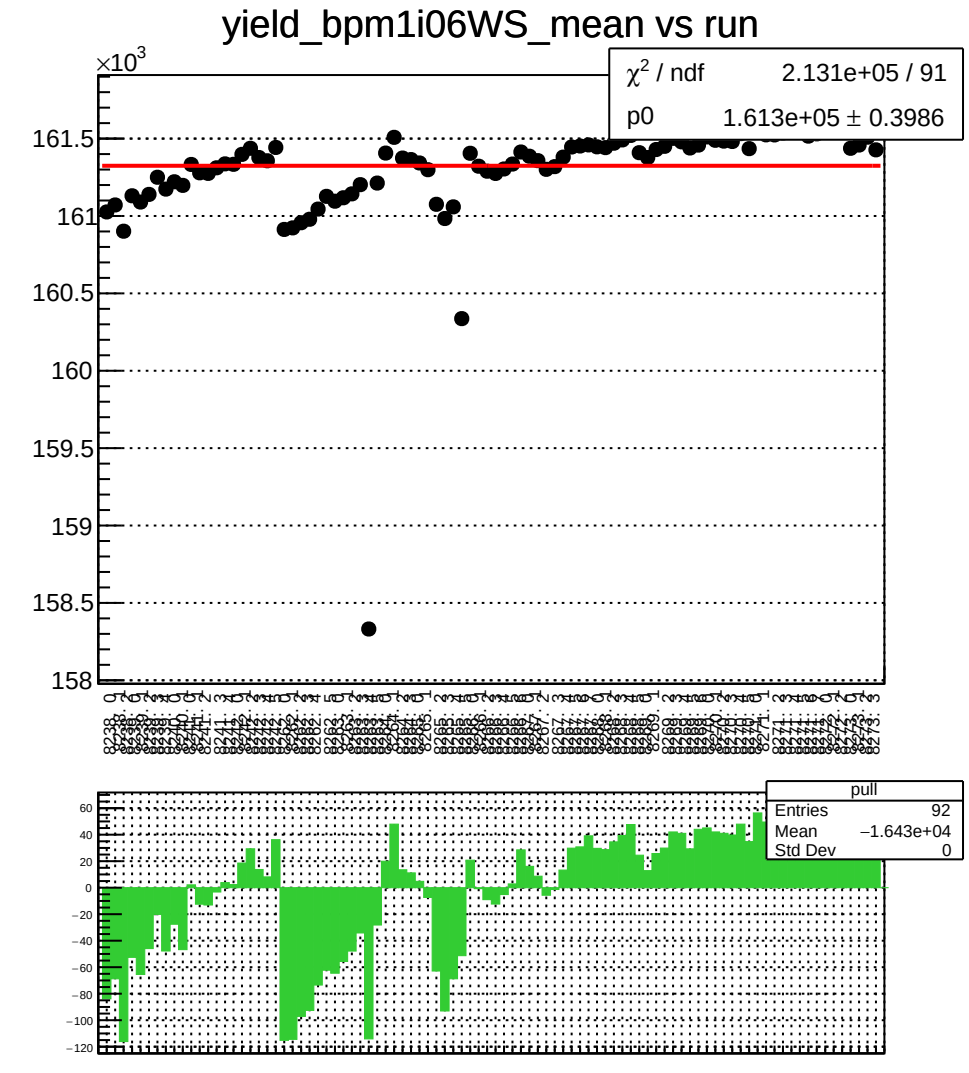

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 1.254e+05 / 91
p0 1.749e+05 ± 0.3724
175.5
175
174.5
174
173.5
173
172.5
pull
Entries 92
Mean 103.9
Std Dev 0
100
50
0
−50
−100

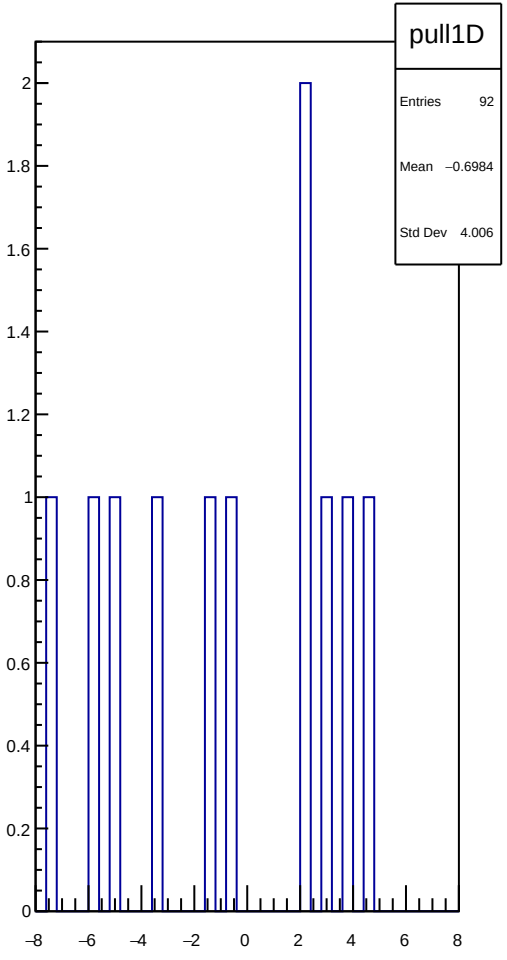

pull1D
Entries 92
Mean −2.35
Std Dev 3.927
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

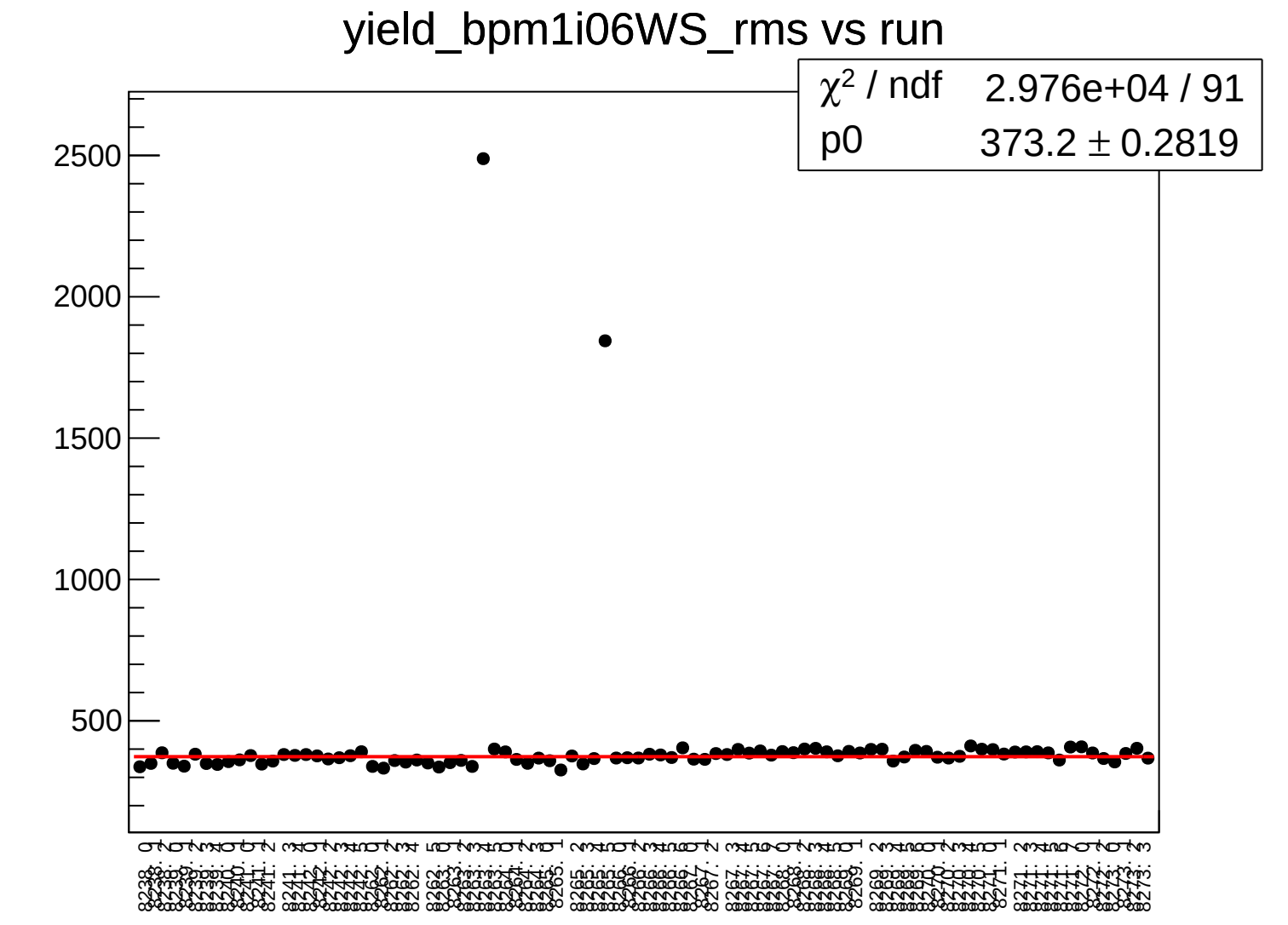

yield_bpm1i02WS_rms vs run
χ² / ndf 2.955e+04 / 91
p0 348.7 ± 0.2633
2500
2000
1500
1000
500

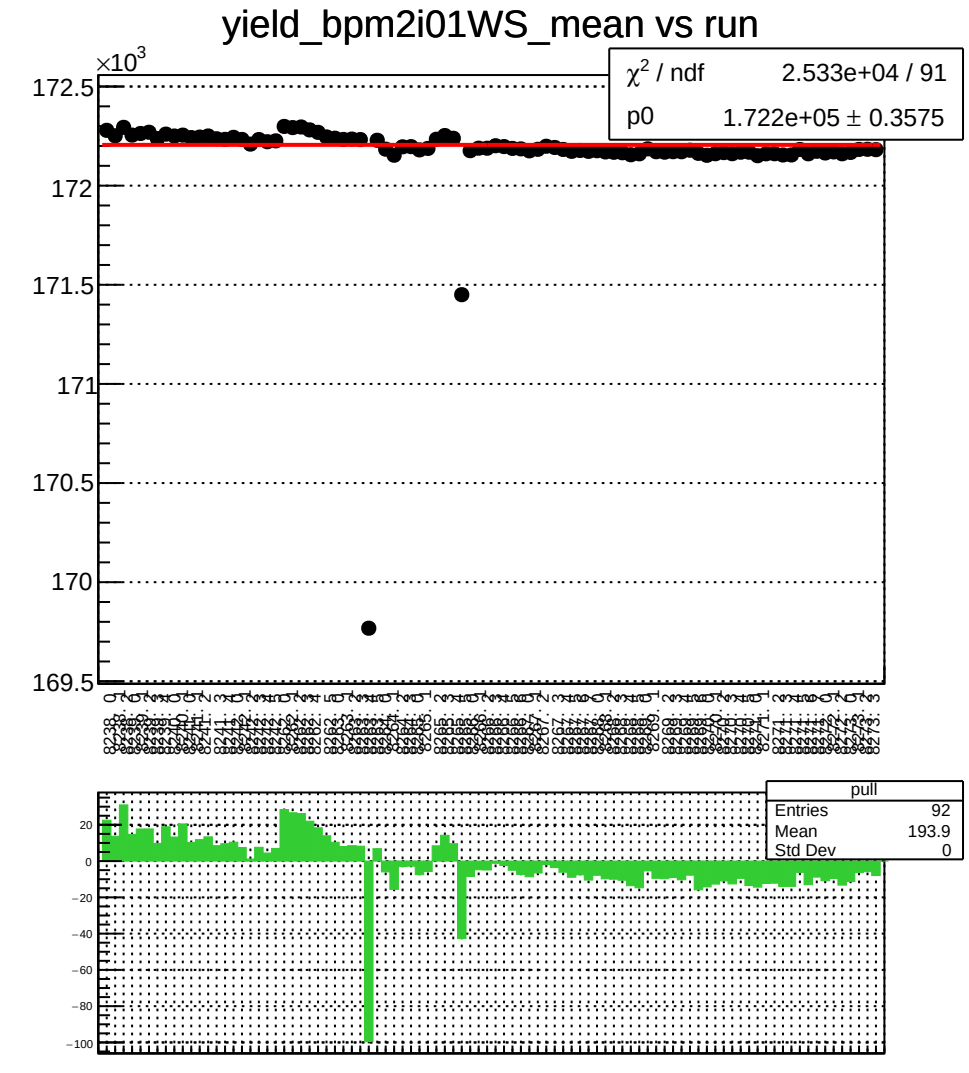

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 1.669e+05 / 91
p0 1.771e+05 ± 0.3942
177.5
177
176.5
176
175.5
175
174.5
pull
Entries 92
Mean 352.8
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 92
Mean 0.1375
Std Dev 4.849
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

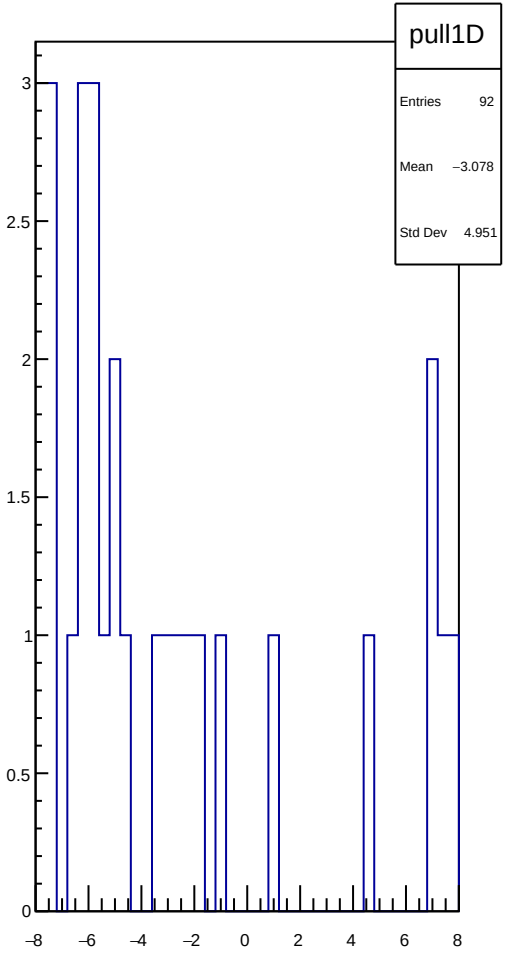

yield_bpm1i04WS_rms vs run
χ² / ndf 2.945e+04 / 91
p0 369.1 ± 0.2788
2500
2000
1500
1000
500

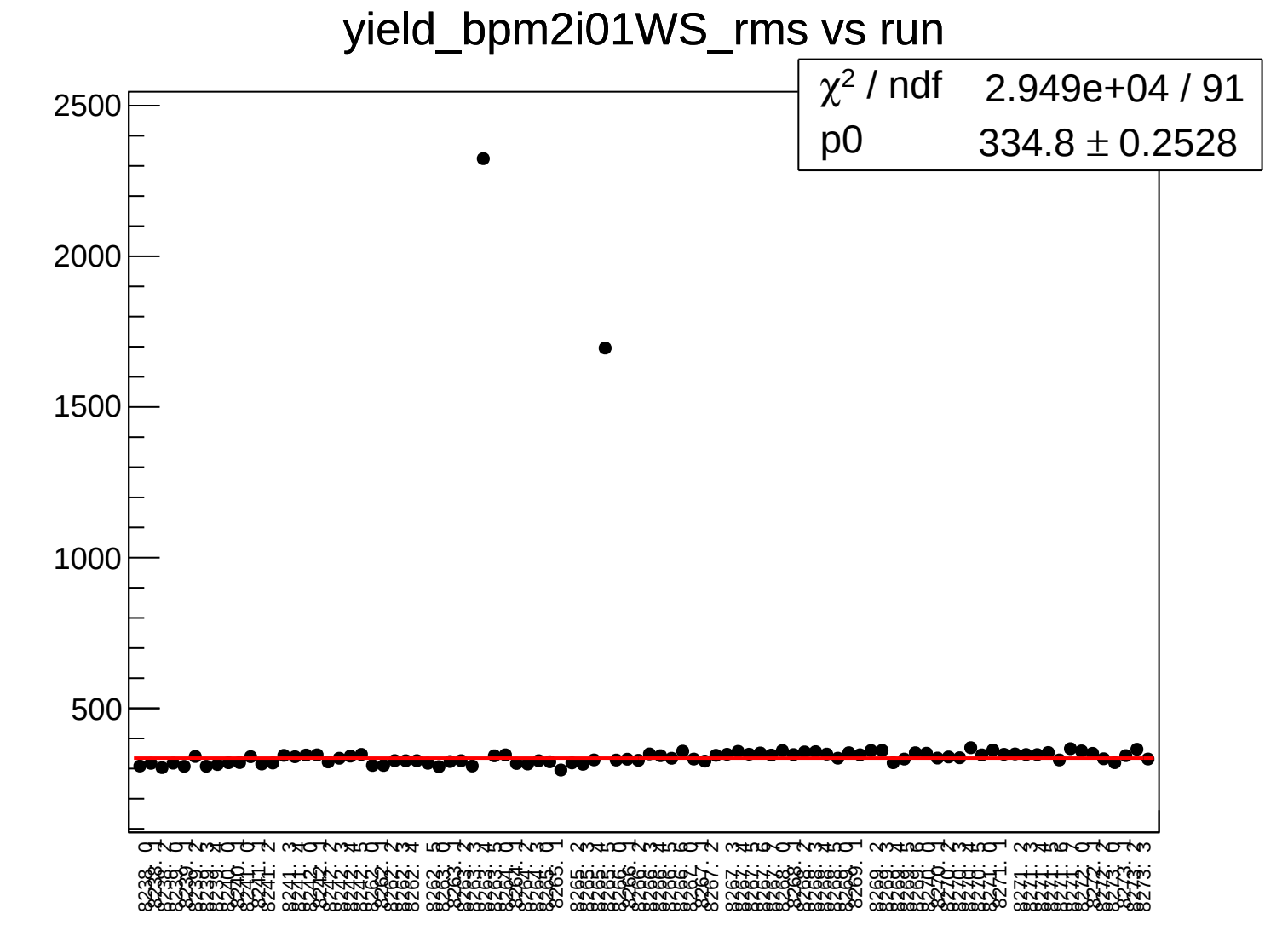

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 2.131e+05 / 91
p0 1.613e+05 ± 0.3986
161.5
161
160.5
160
159.5
159
158.5
158
pull
Entries 92
Mean −1.643e+04
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100
−120

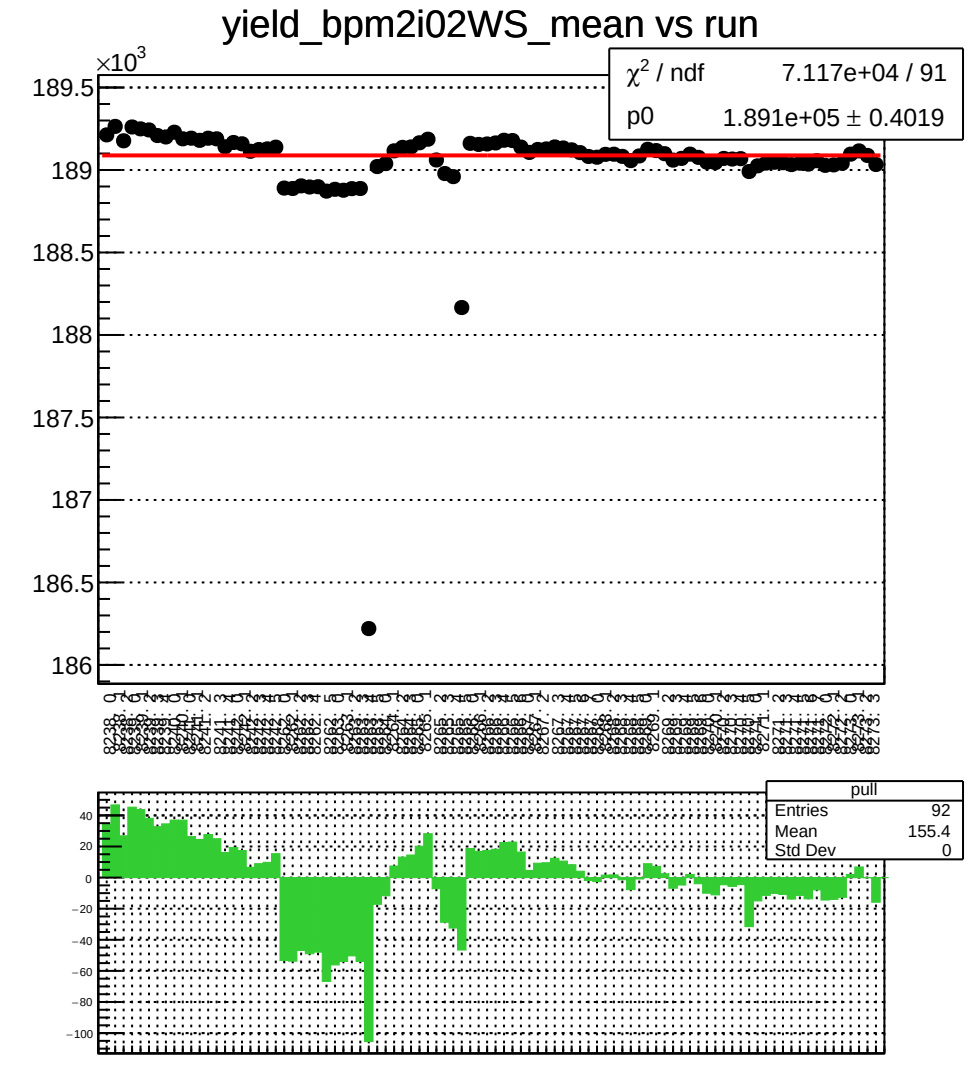

pull1D
Entries 92
Mean −0.6984
Std Dev 4.006
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

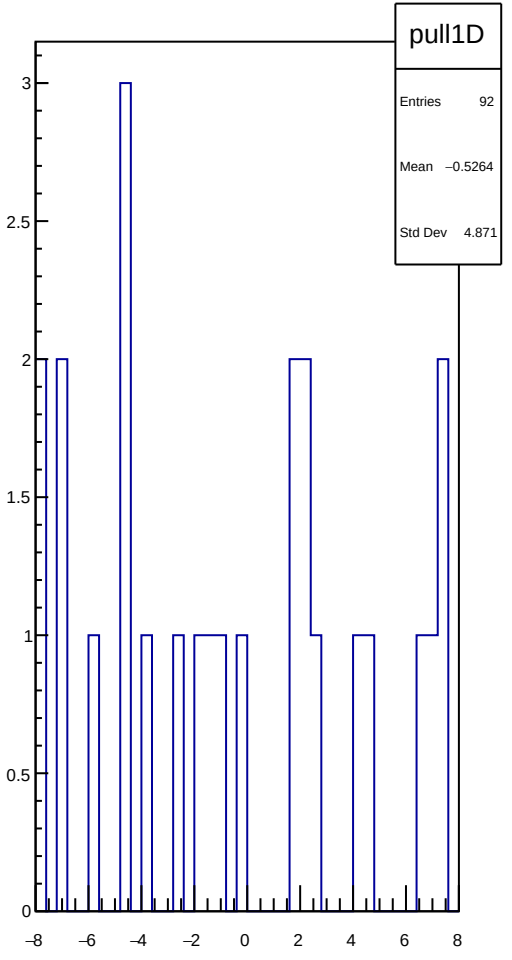

yield_bpm1i06WS_rms vs run
χ² / ndf 2.976e+04 / 91
p0 373.2 ± 0.2819
2500
2000
1500
1000
500

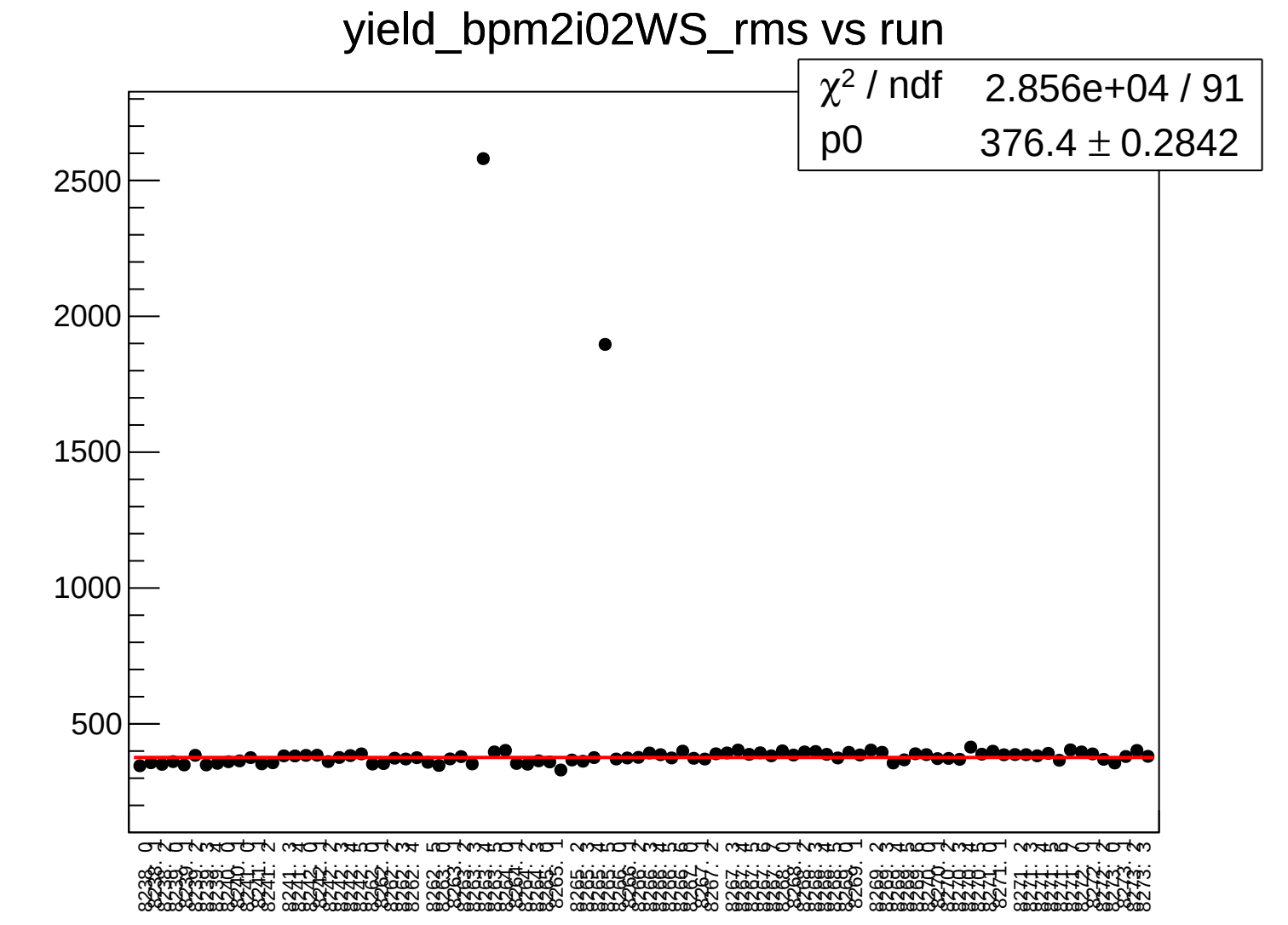

yield_bpm2i01WS_mean vs run
×10^3
χ^2 / ndf 2.533e+04 / 91
p0 1.722e+05 ± 0.3575
172.5
172
171.5
171
170.5
170
169.5
pull
Entries 92
Mean 193.9
Std Dev 0
20
0
−20
−40
−60
−80
−100

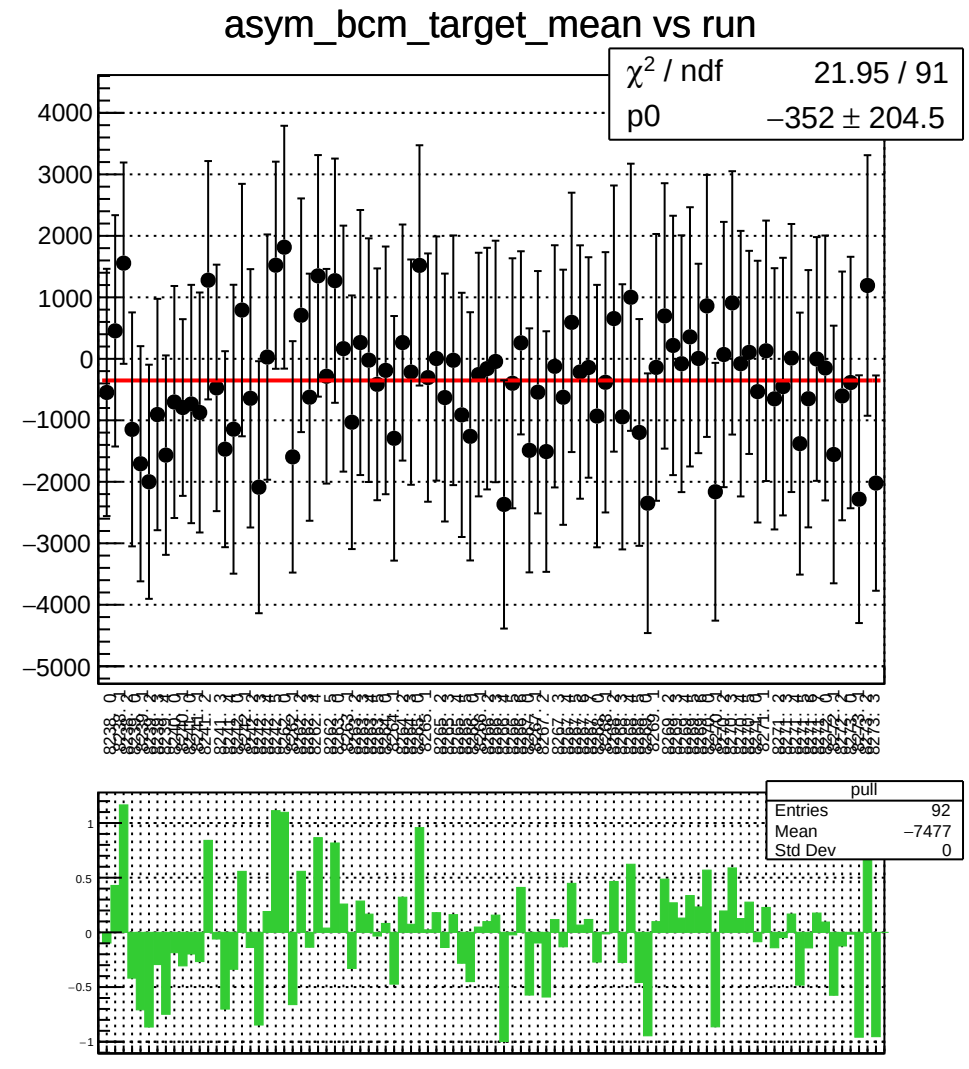

pull1D
Entries 92
Mean −3.078
Std Dev 4.951
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

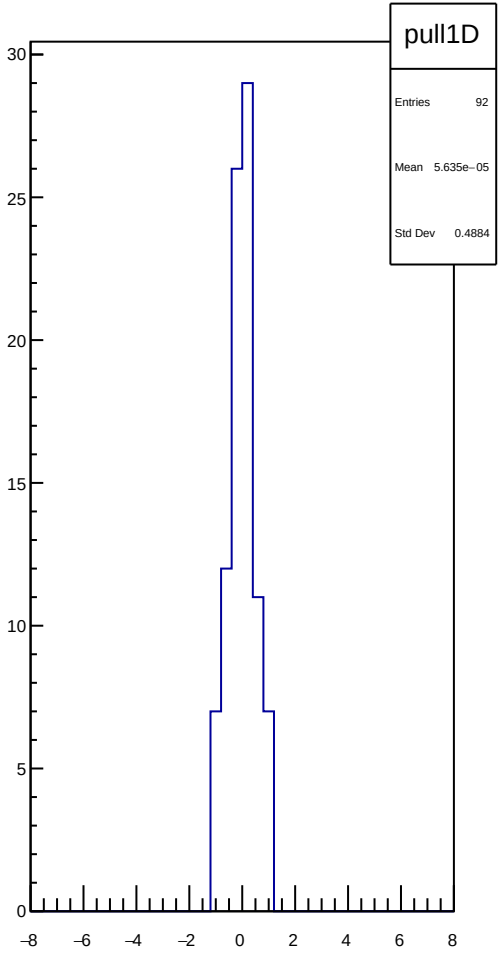

yield_bpm2i01WS_rms vs run
χ² / ndf 2.949e+04 / 91
p0 334.8 ± 0.2528
2500
2000
1500
1000
500

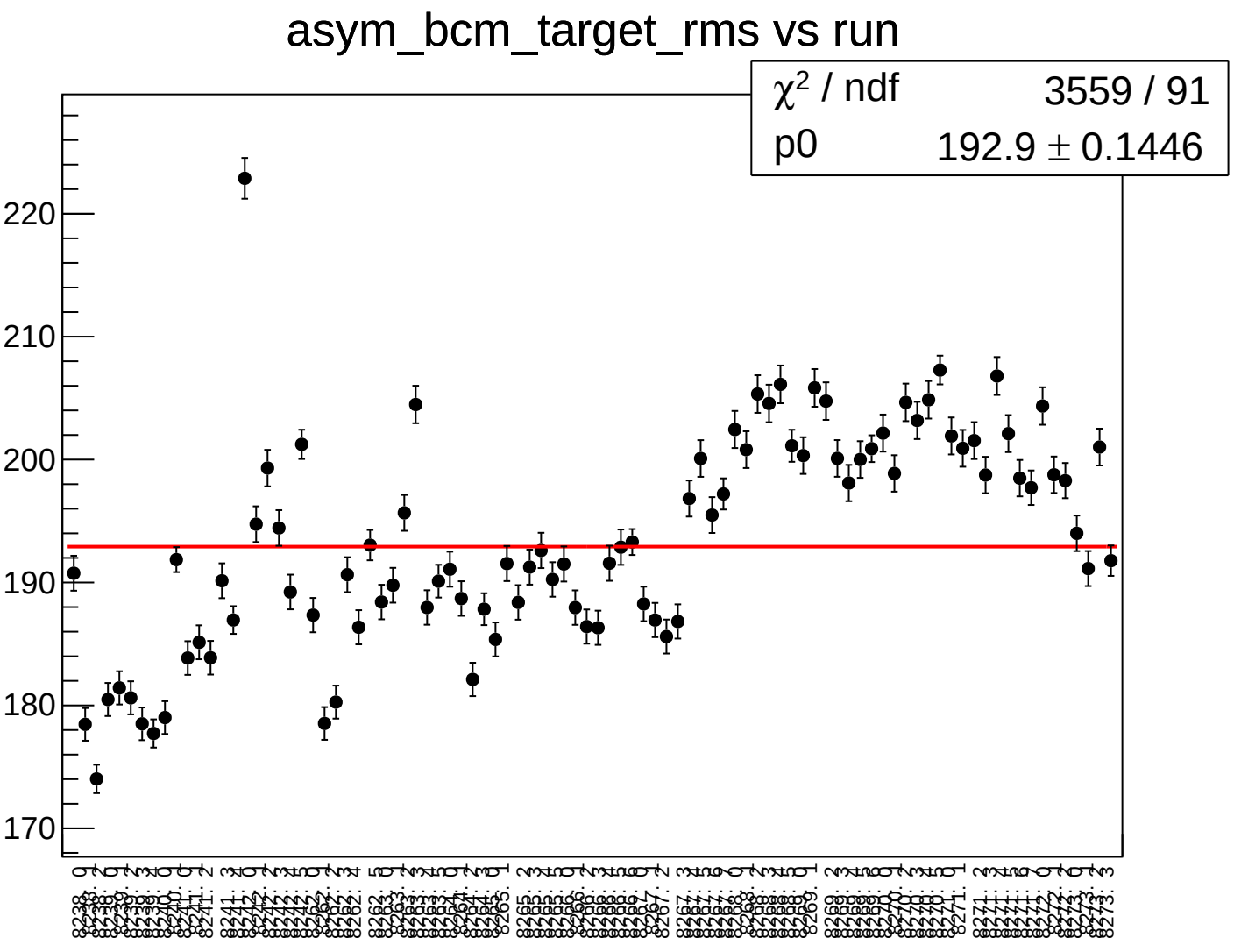

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 7.117e+04 / 91
p0 1.891e+05 ± 0.4019
189.5
189
188.5
188
187.5
187
186.5
186
pull
Entries 92
Mean 155.4
Std Dev 0
40
20
0
−20
−40
−60
−80
−100

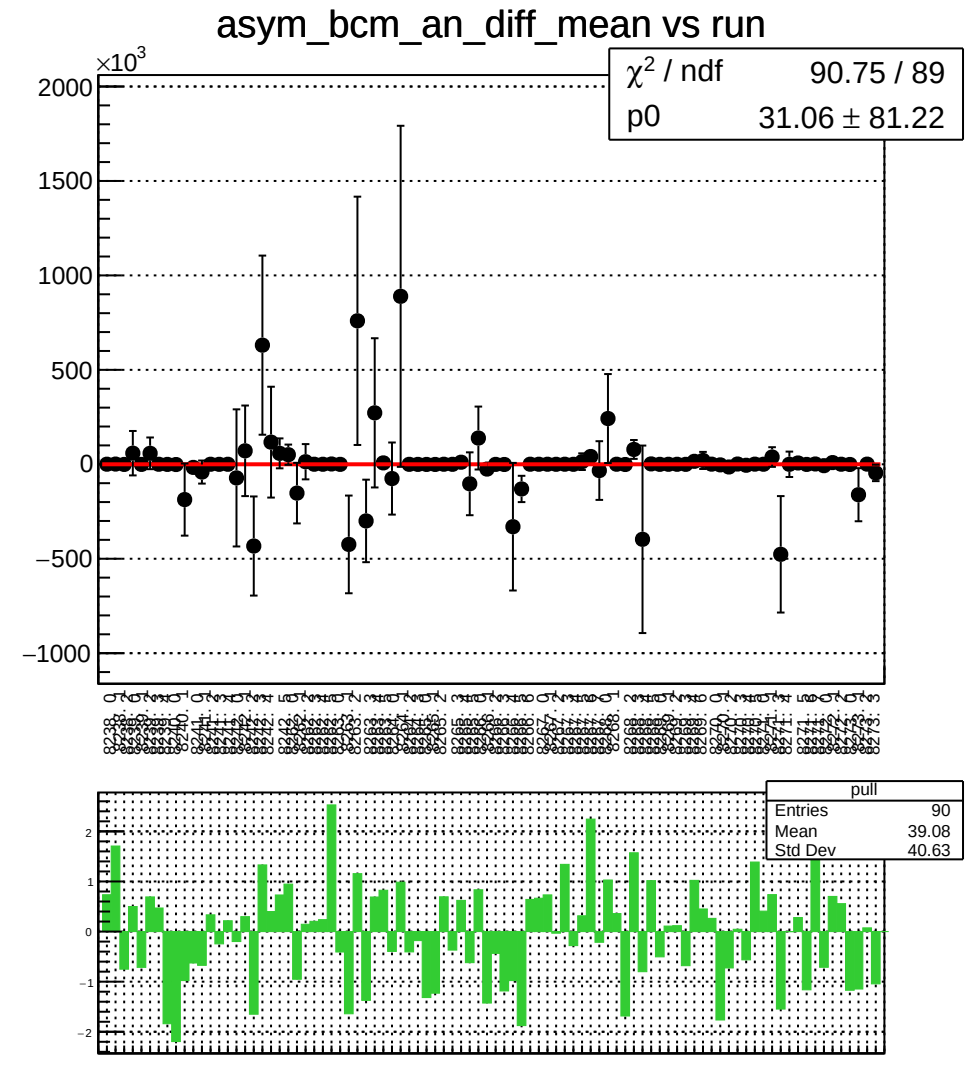

pull1D
Entries 92
Mean −0.5264
Std Dev 4.871
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

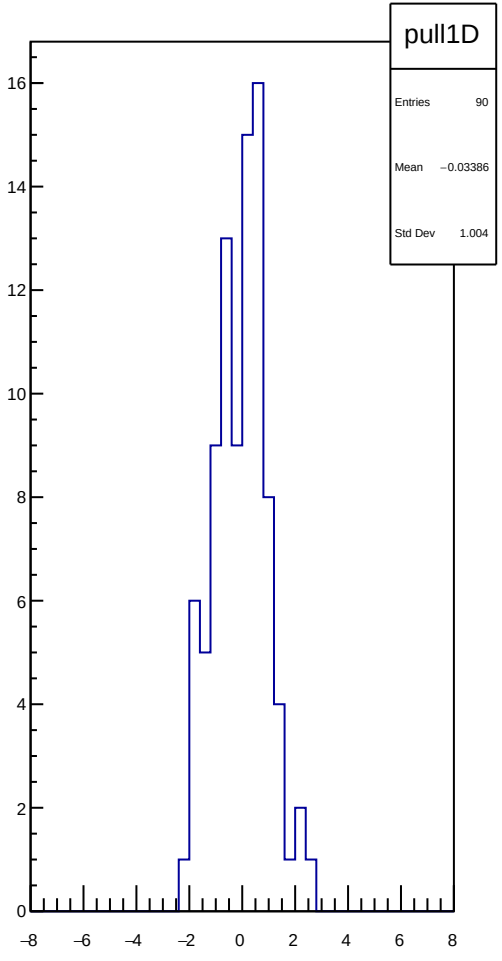

yield_bpm2i02WS_rms vs run
χ² / ndf 2.856e+04 / 91
p0 376.4 ± 0.2842
2500
2000
1500
1000
500

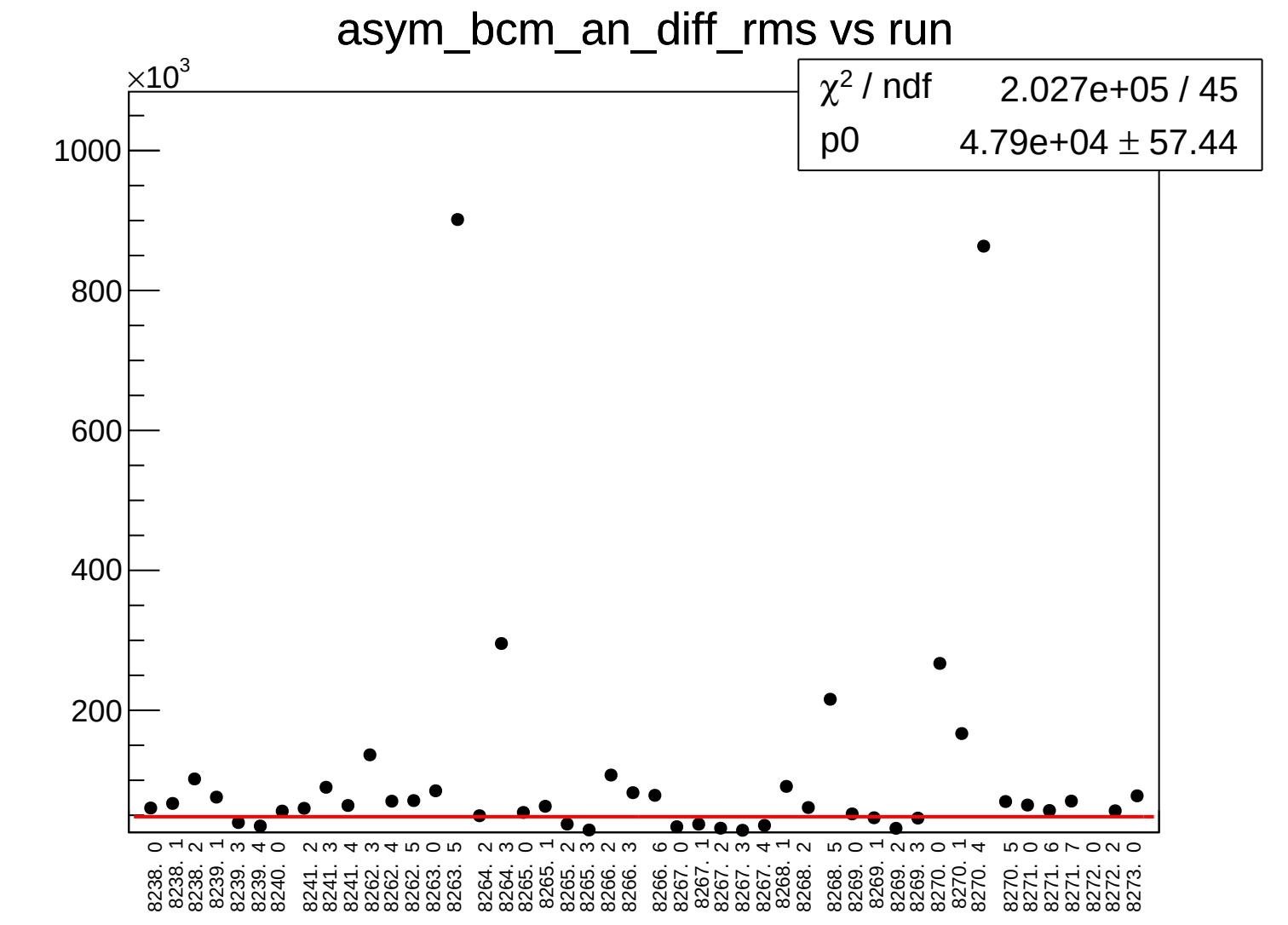

asym_bcm_target_mean vs run
χ² / ndf 21.95 / 91
p0 −352 ± 204.5
pull
Entries 92
Mean −7477
Std Dev 0

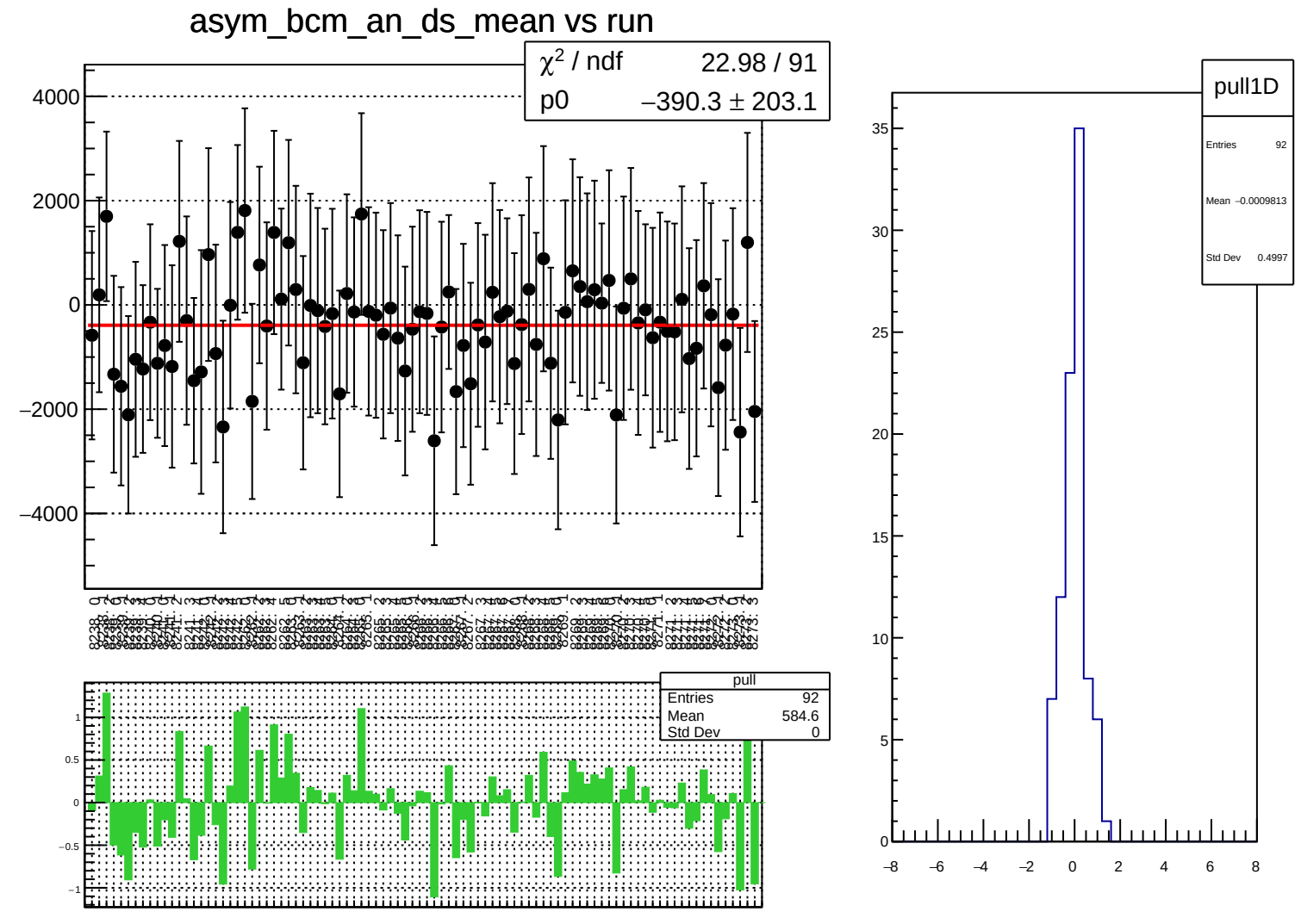

pull1D
Entries 92
Mean 5.635e−05
Std Dev 0.4884

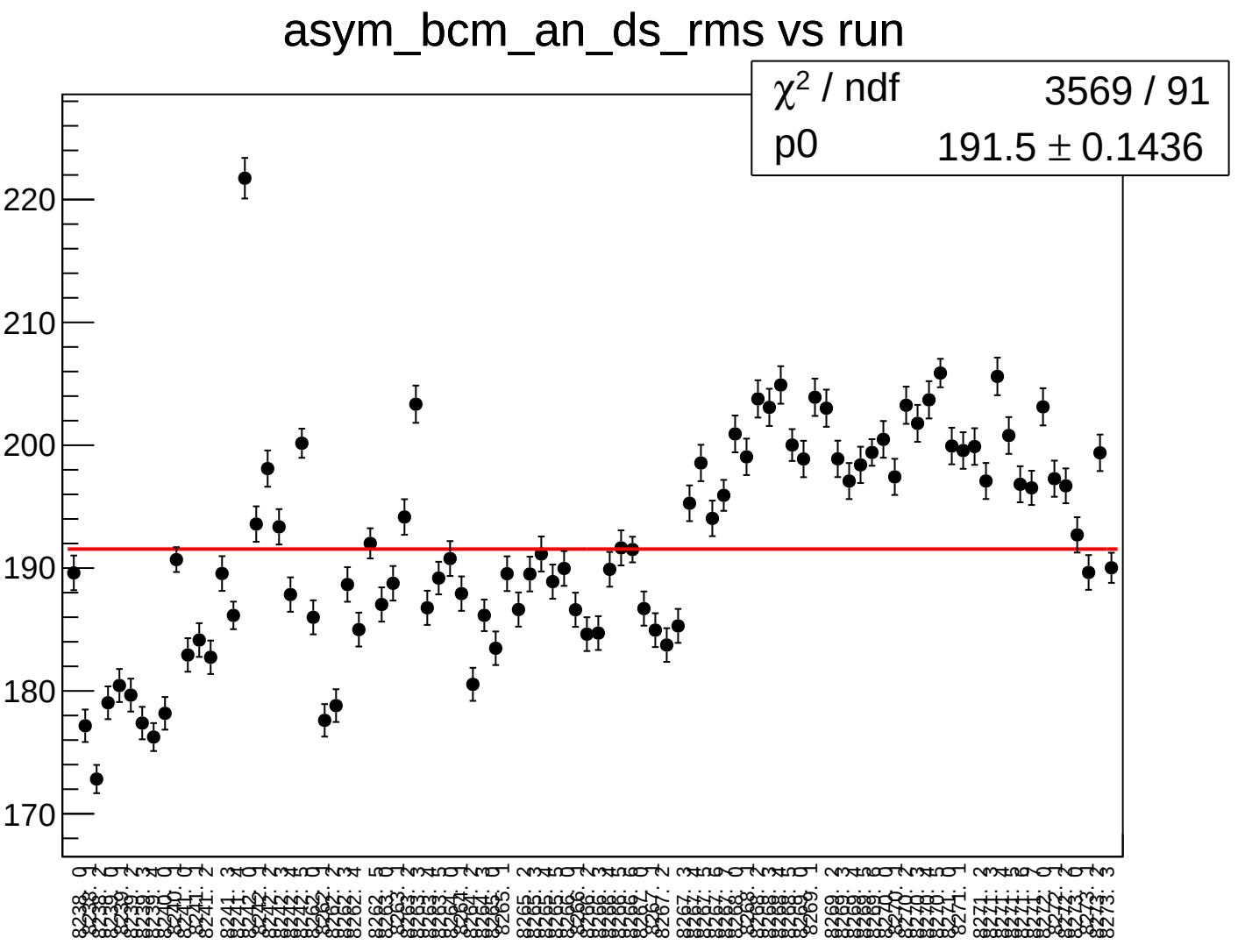

asym_bcm_target_rms vs run
$\chi^2$ / ndf 3559 / 91
p0 192.9 ± 0.1446
220
210
200
190
180
170

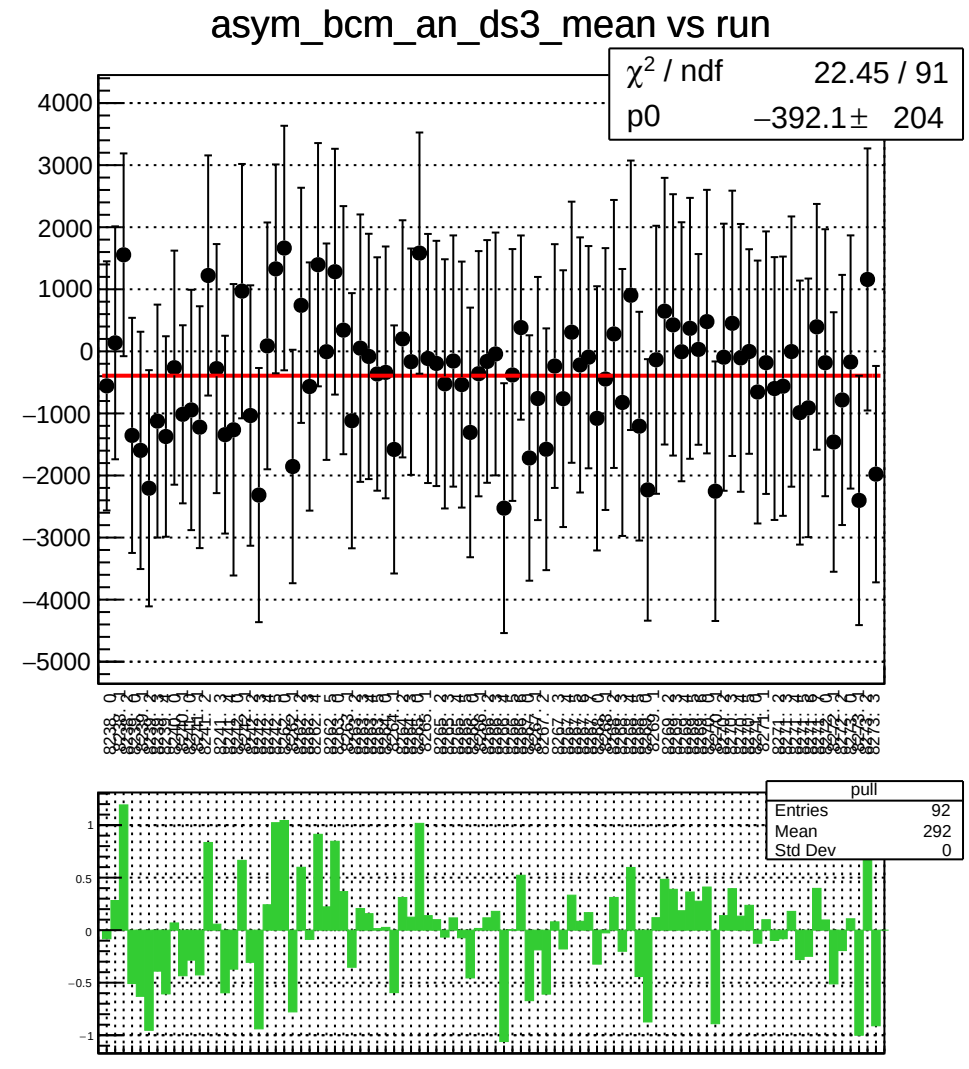

asym_bcm_an_diff_mean vs run
×10^3
2000
1500
1000
500
0
−500
−1000
χ² / ndf 90.75 / 89
p0 31.06 ± 81.22
pull
Entries 90
Mean 39.08
Std Dev 40.63
2
1
0
−1
−2

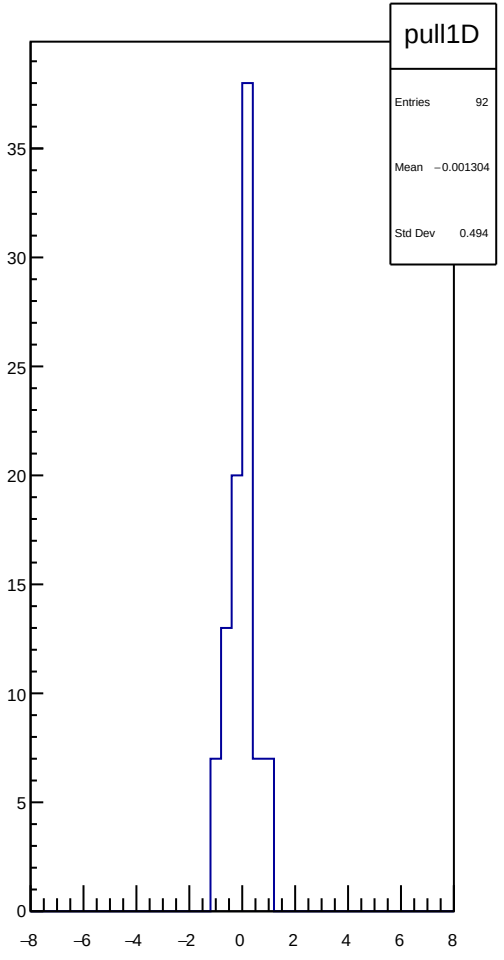

pull1D
Entries 90
Mean −0.03386
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

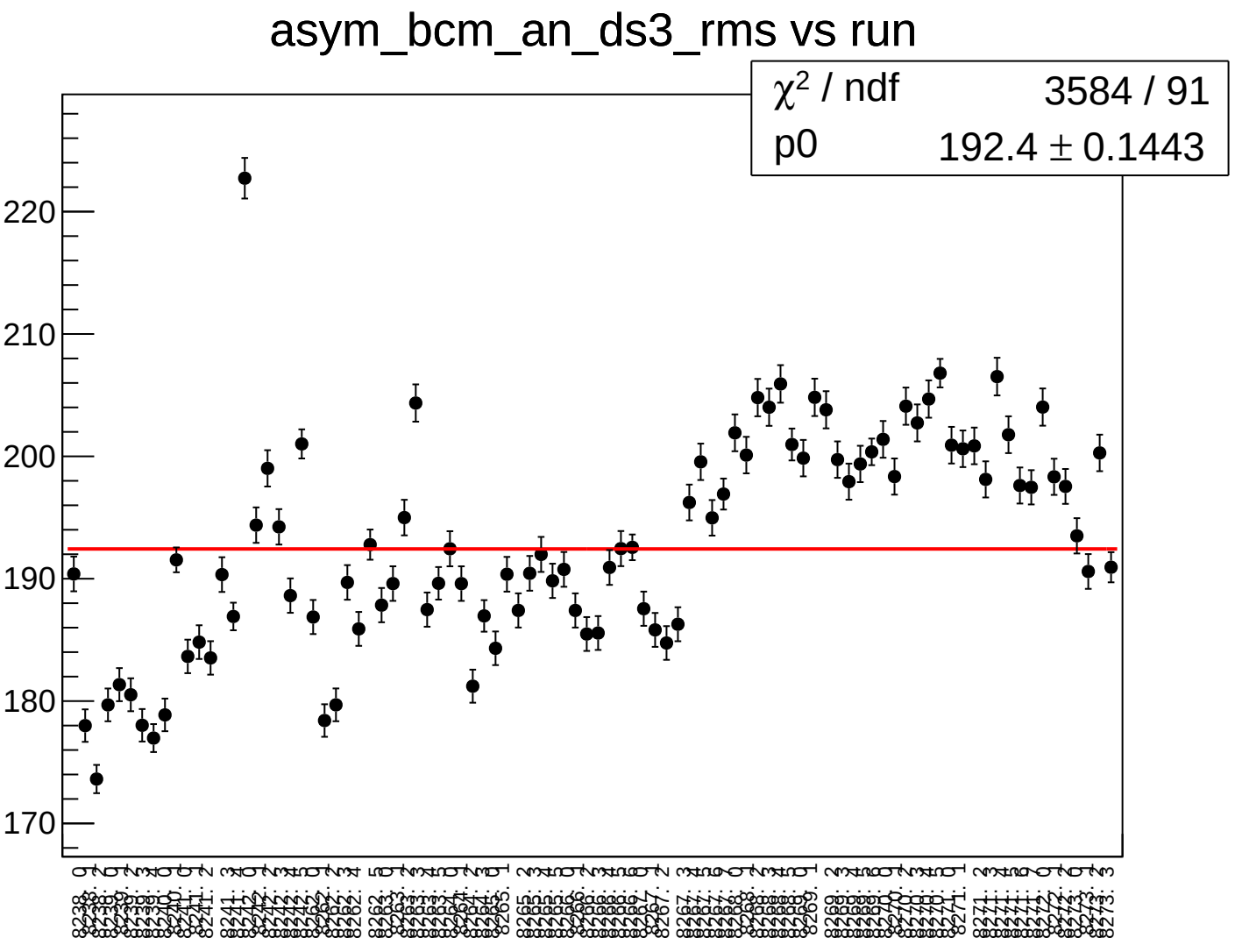

asym_bcm_an_diff_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 2.027e+05 / 45
p0 4.79e+04 ± 57.44
8238. 0
8238. 1
8238. 2
8239. 1
8239. 3
8239. 4
8240. 0
8241. 2
8241. 3
8241. 4
8262. 3
8262. 4
8262. 5
8263. 0
8263. 5
8264. 2
8264. 3
8265. 0
8265. 1
8265. 2
8265. 3
8266. 2
8266. 3
8266. 6
8267. 0
8267. 1
8267. 2
8267. 3
8267. 4
8268. 1
8268. 2
8268. 5
8269. 0
8269. 1
8269. 2
8269. 3
8270. 0
8270. 1
8270. 4
8270. 5
8271. 0
8271. 6
8271. 7
8272. 0
8272. 2
8273. 0

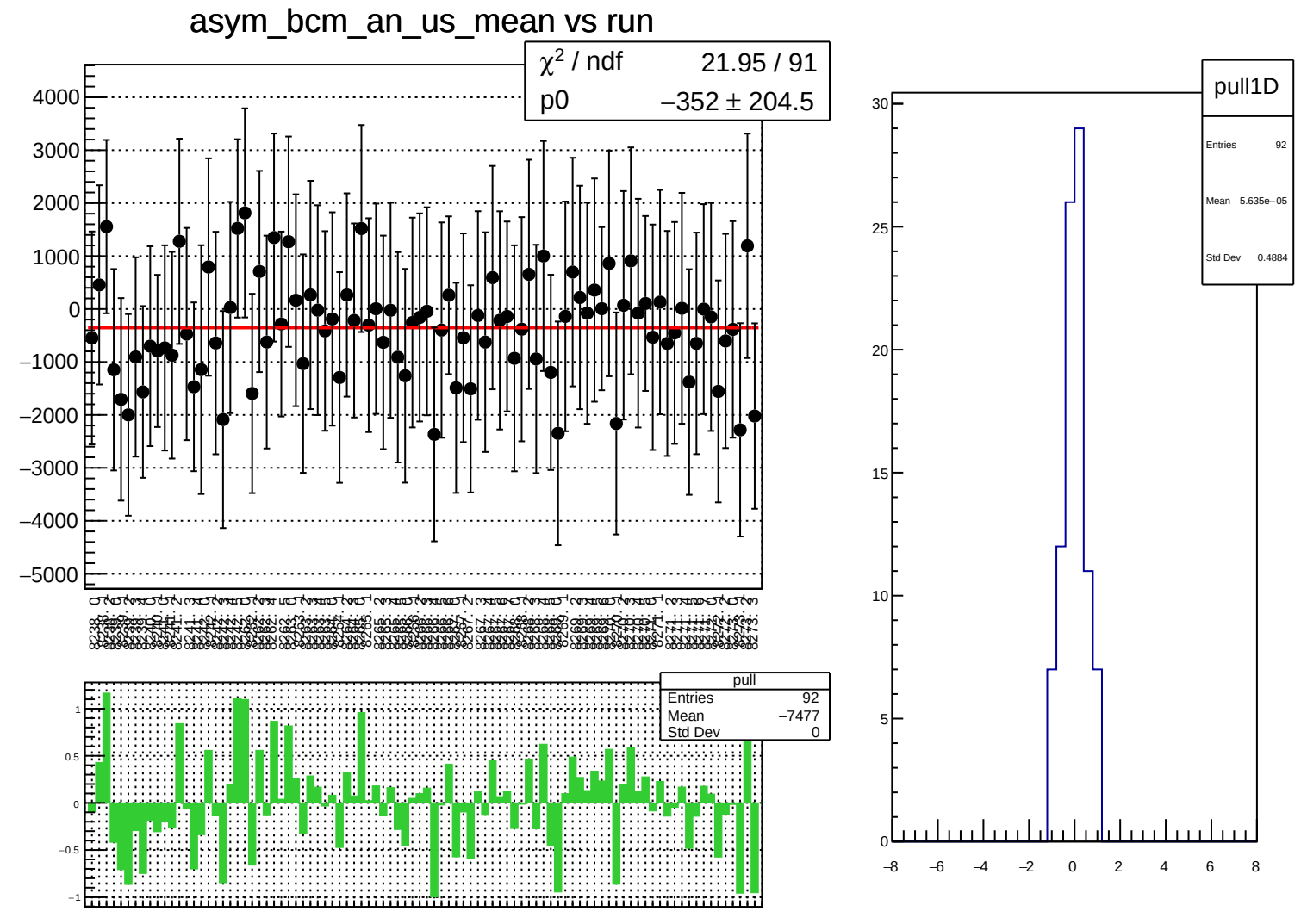

asym_bcm_an_ds_mean vs run
χ² / ndf 22.98 / 91
p0 −390.3 ± 203.1
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 584.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.0009813
Std Dev 0.4997
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

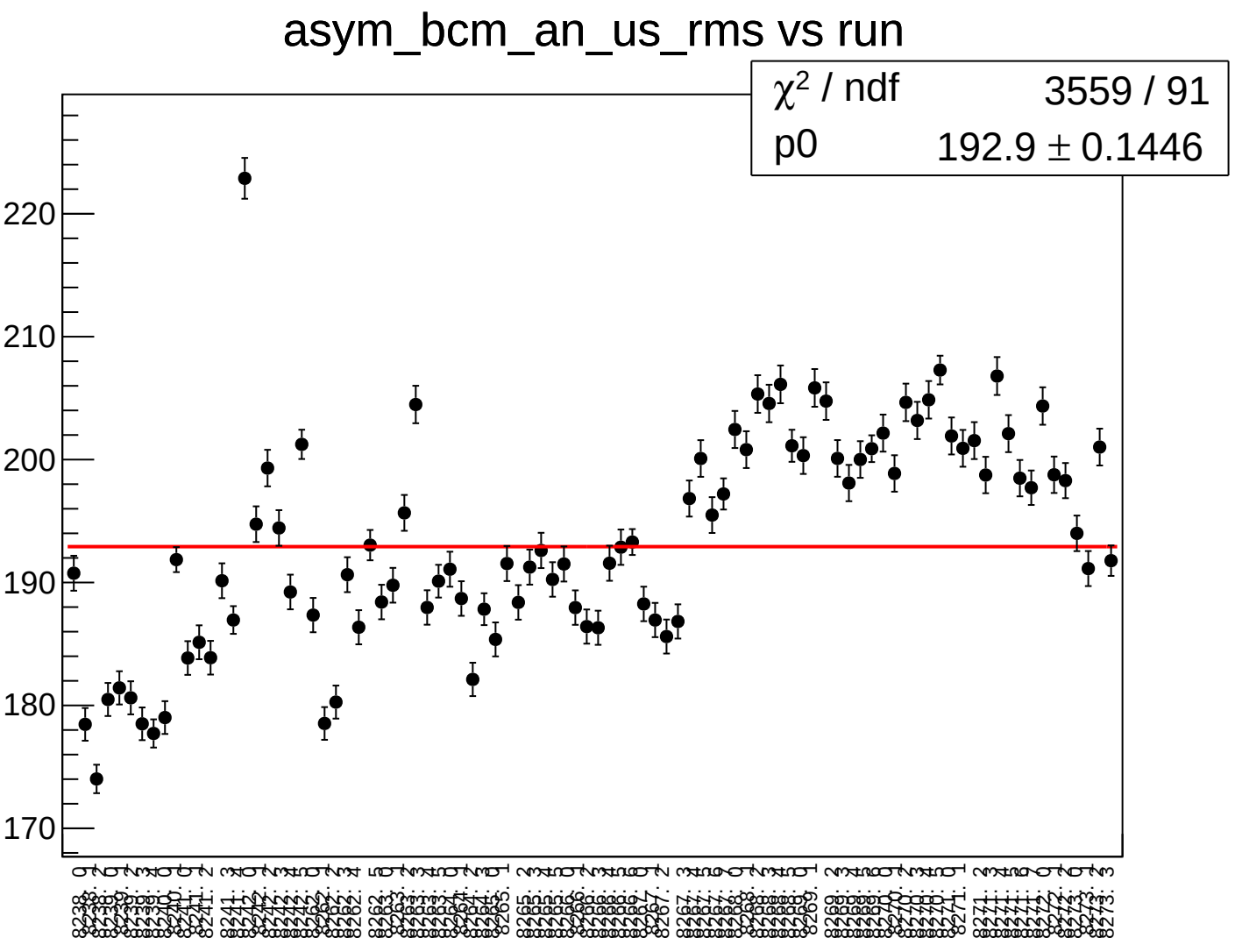

asym_bcm_an_ds_rms vs run
$\chi^2$ / ndf 3569 / 91
p0 191.5 ± 0.1436
220
210
200
190
180
170

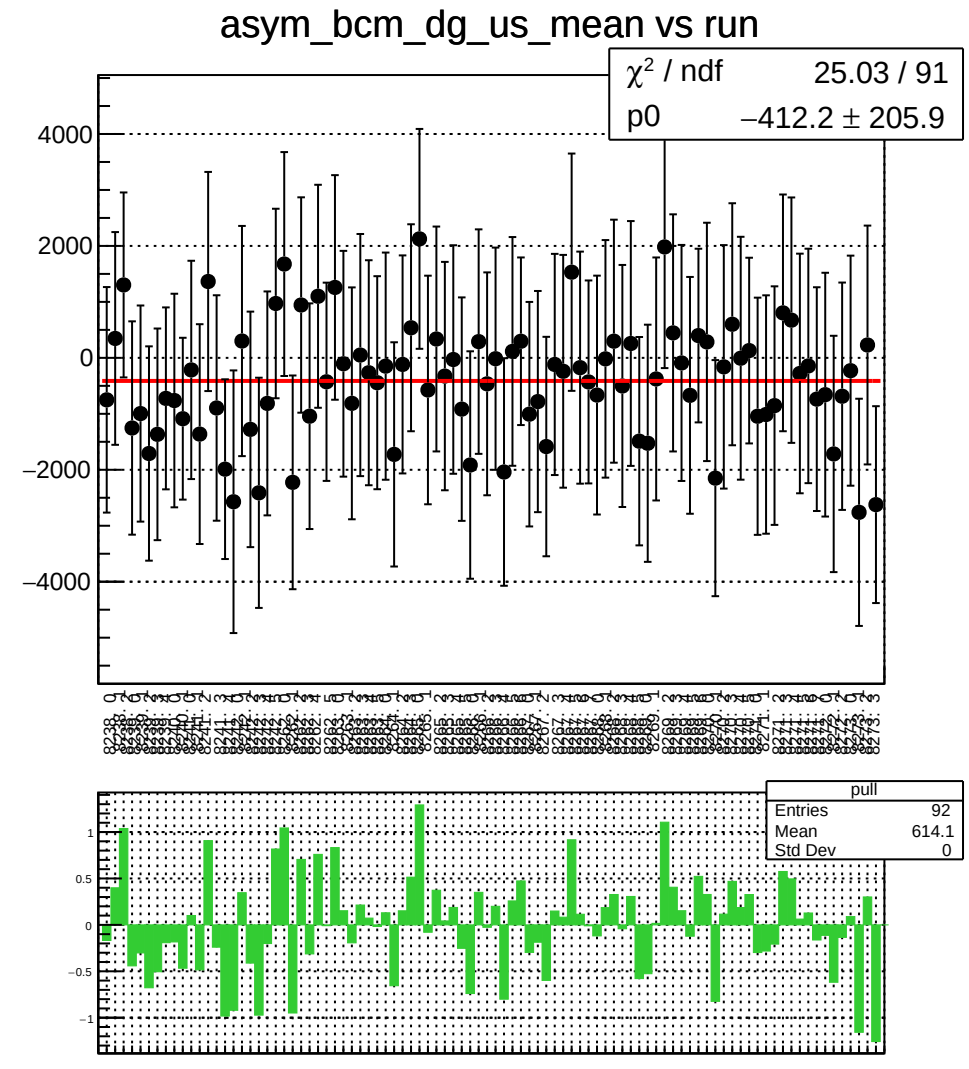

asym_bcm_an_ds3_mean vs run
χ² / ndf 22.45 / 91
p0 −392.1± 204
pull
Entries 92
Mean 292
Std Dev 0

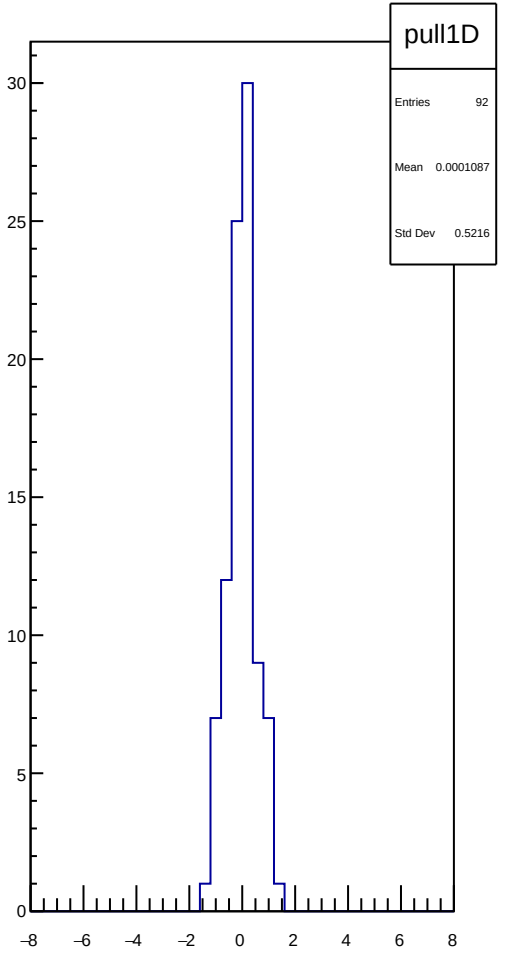

pull1D
Entries 92
Mean −0.001304
Std Dev 0.494

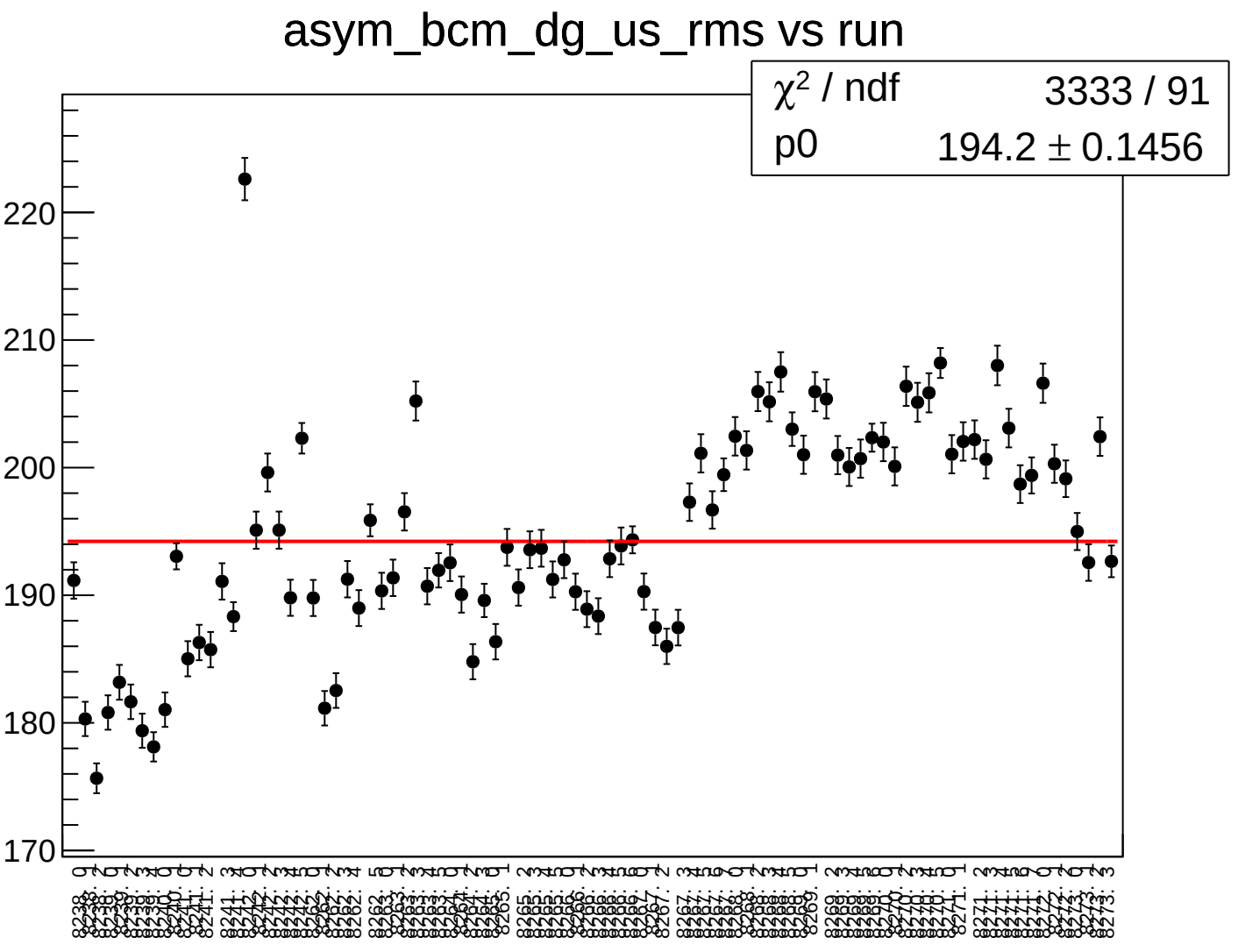

asym_bcm_an_ds3_rms vs run
$\chi^2$ / ndf 3584 / 91
p0 192.4 ± 0.1443
220
210
200
190
180
170

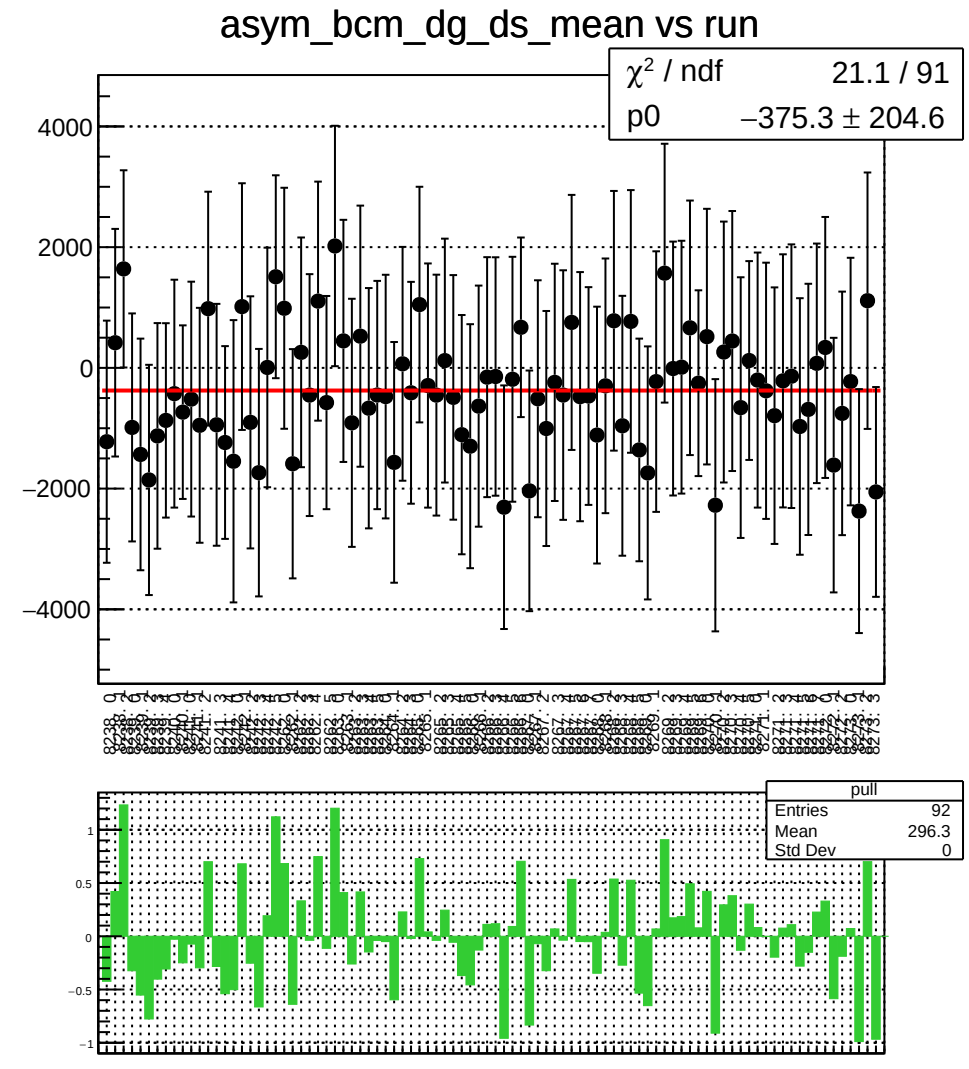

asym_bcm_an_us_mean vs run
χ² / ndf 21.95 / 91
p0 −352 ± 204.5
pull
Entries 92
Mean −7477
Std Dev 0
pull1D
Entries 92
Mean 5.635e−05
Std Dev 0.4884

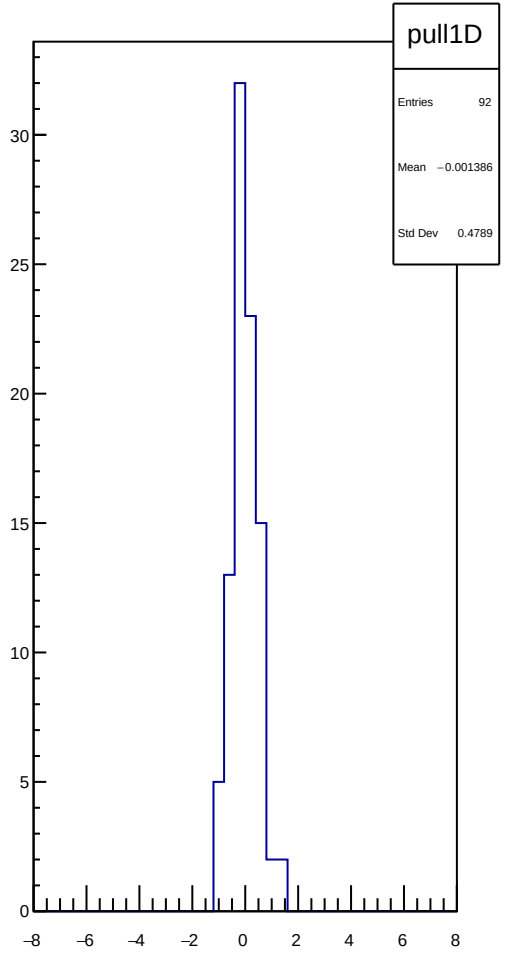

asym_bcm_an_us_rms vs run
χ² / ndf 3559 / 91
p0 192.9 ± 0.1446
220
210
200
190
180
170

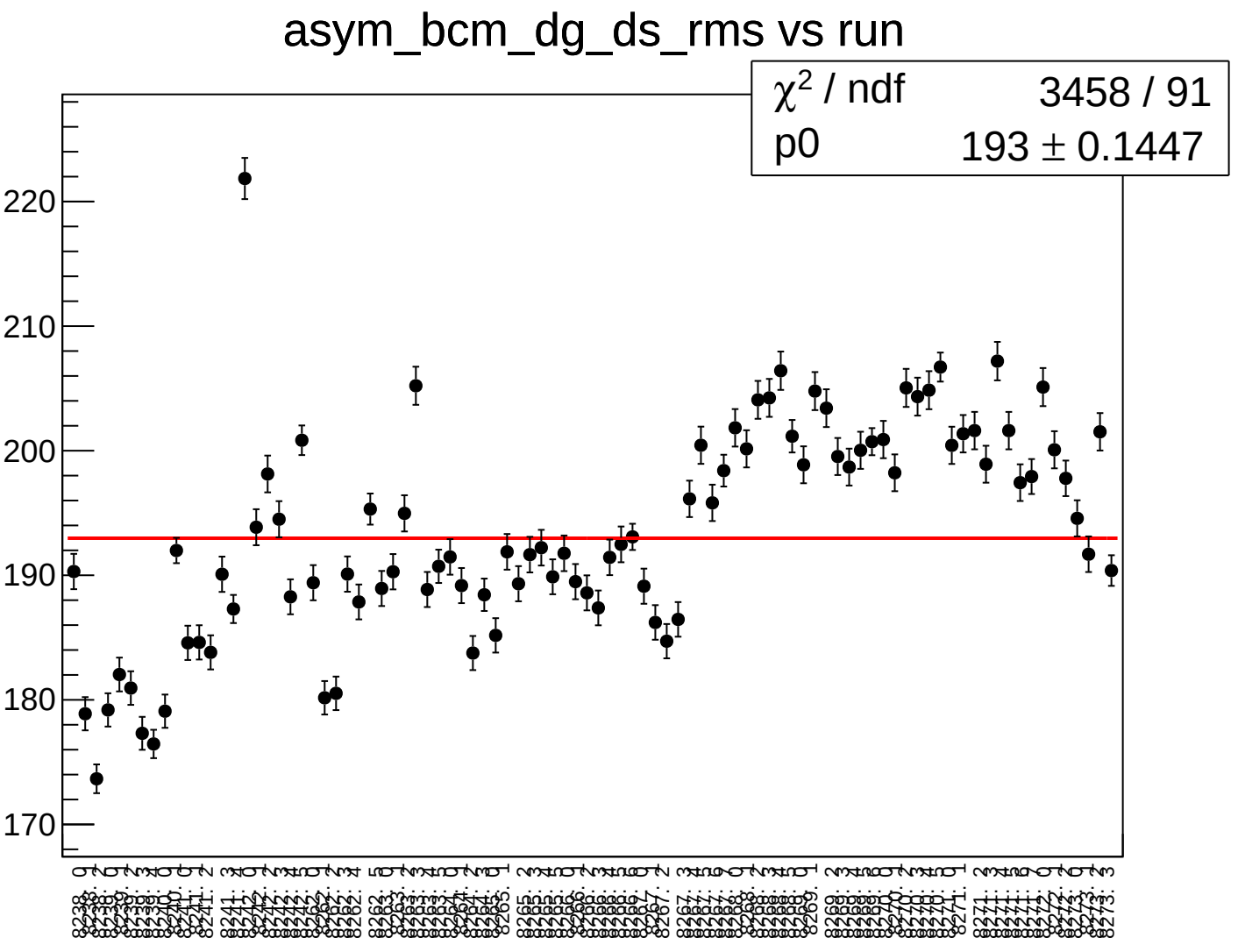

asym_bcm_dg_us_mean vs run
χ² / ndf 25.03 / 91
p0 −412.2 ± 205.9
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 614.1
Std Dev 0
1
0.5
0
−0.5
−1

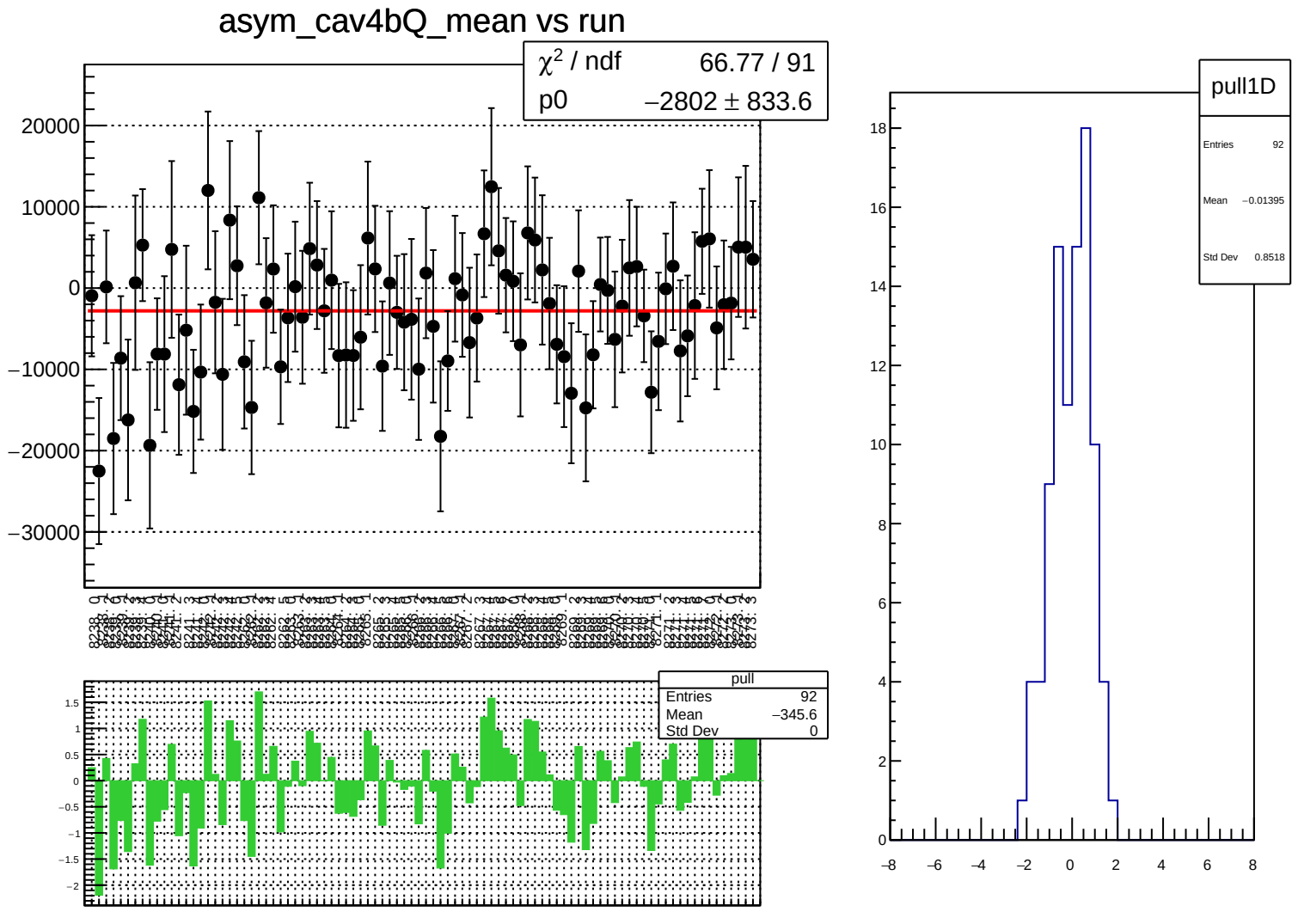

pull1D
Entries 92
Mean 0.0001087
Std Dev 0.5216
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

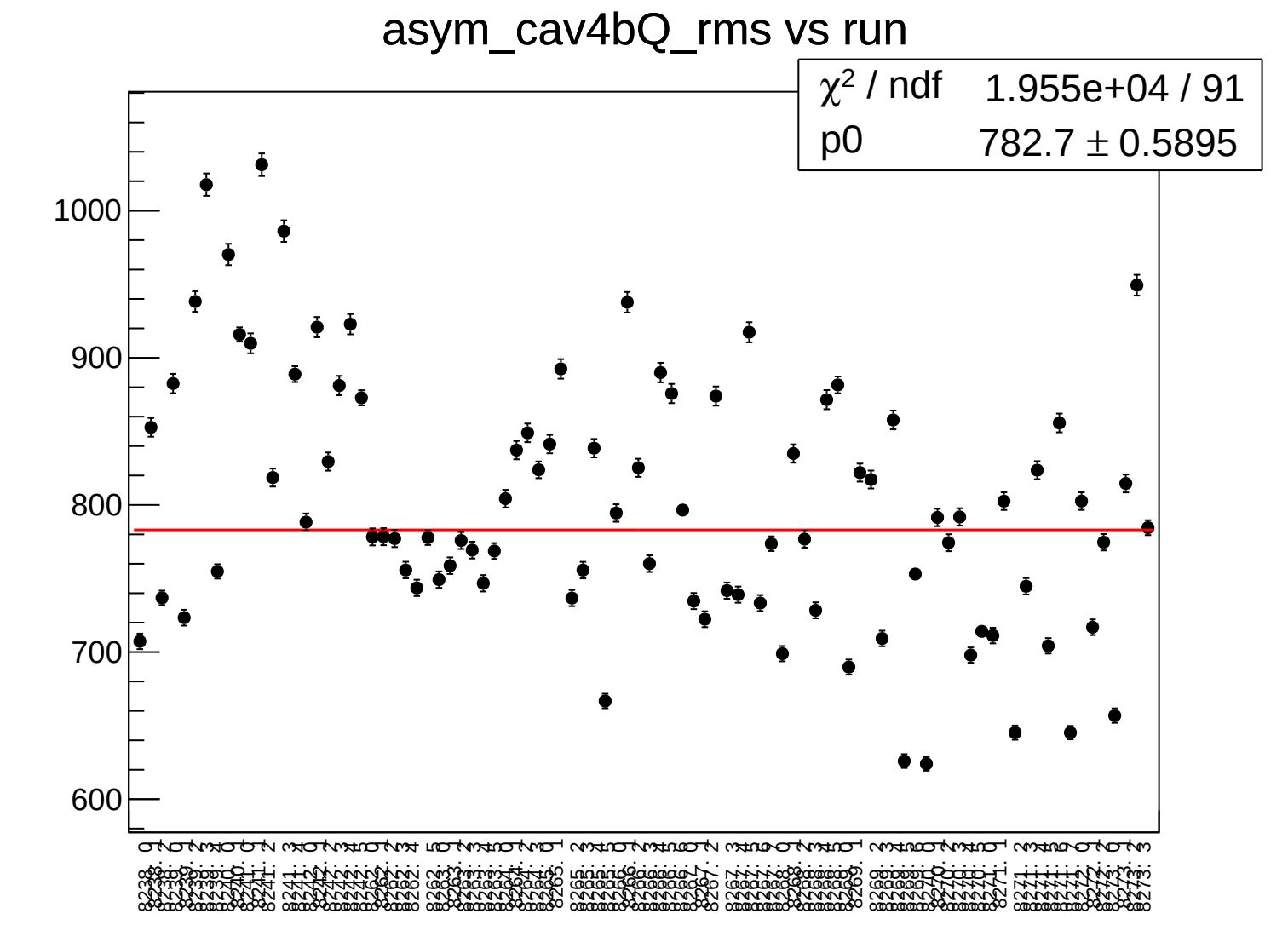

asym_bcm_dg_us_rms vs run
$\chi^2$ / ndf 3333 / 91
p0 194.2 ± 0.1456
220
210
200
190
180
170

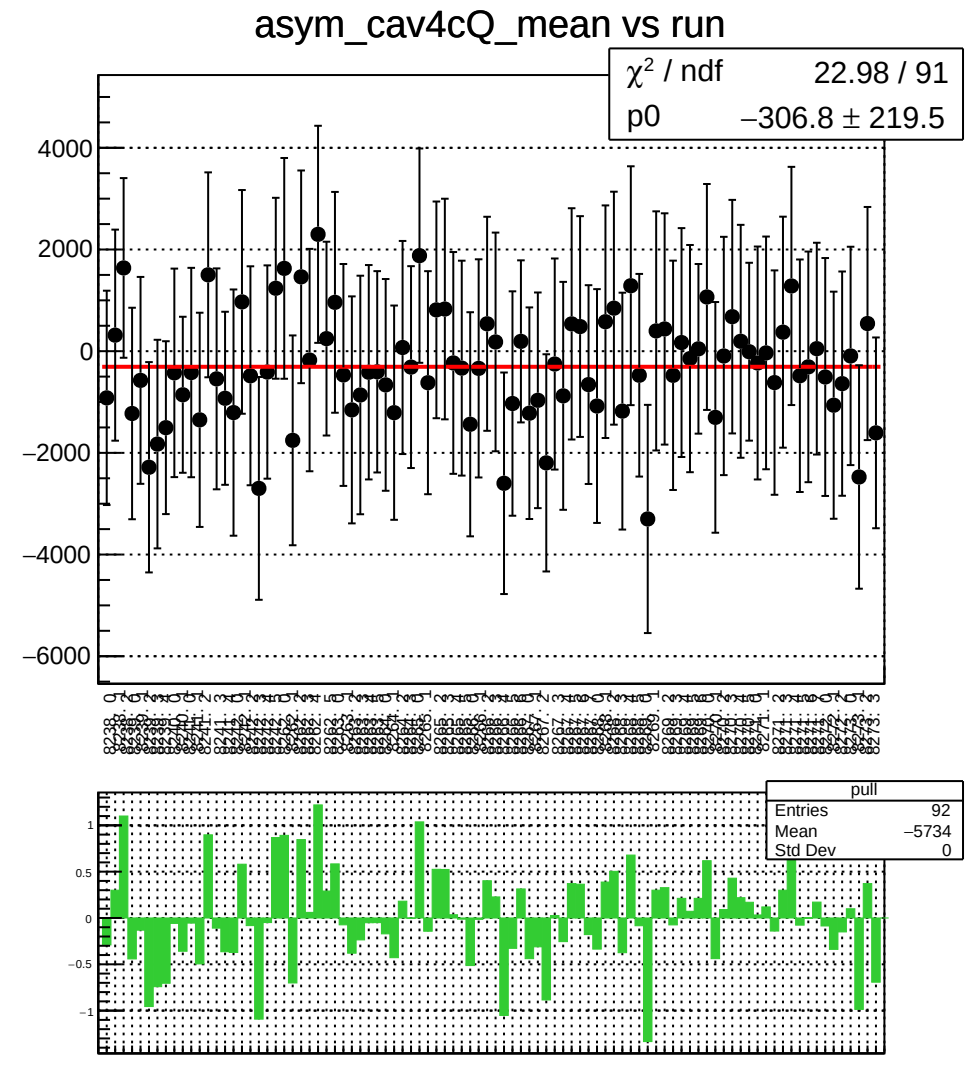

asym_bcm_dg_ds_mean vs run
χ² / ndf 21.1 / 91
p0 −375.3 ± 204.6
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 296.3
Std Dev 0
1
0.5
0
−0.5
−1

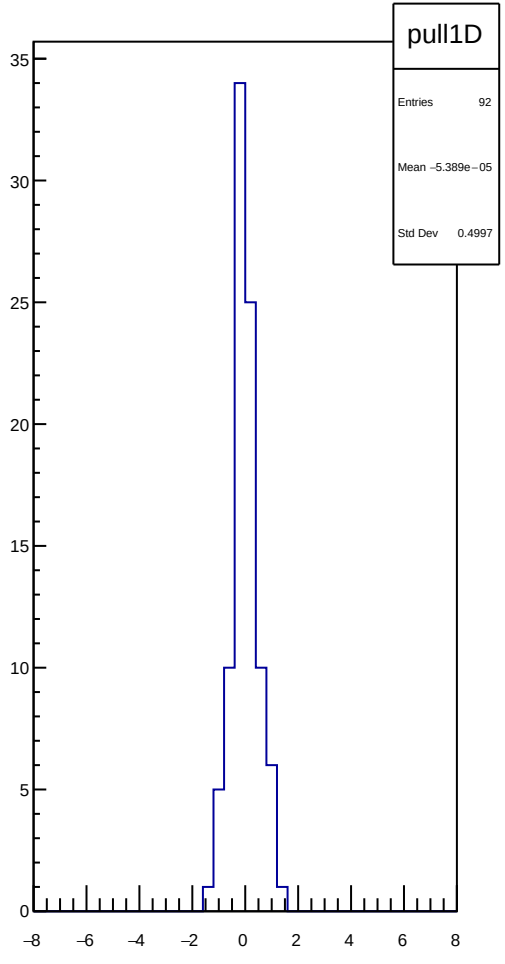

pull1D
Entries 92
Mean −0.001386
Std Dev 0.4789
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

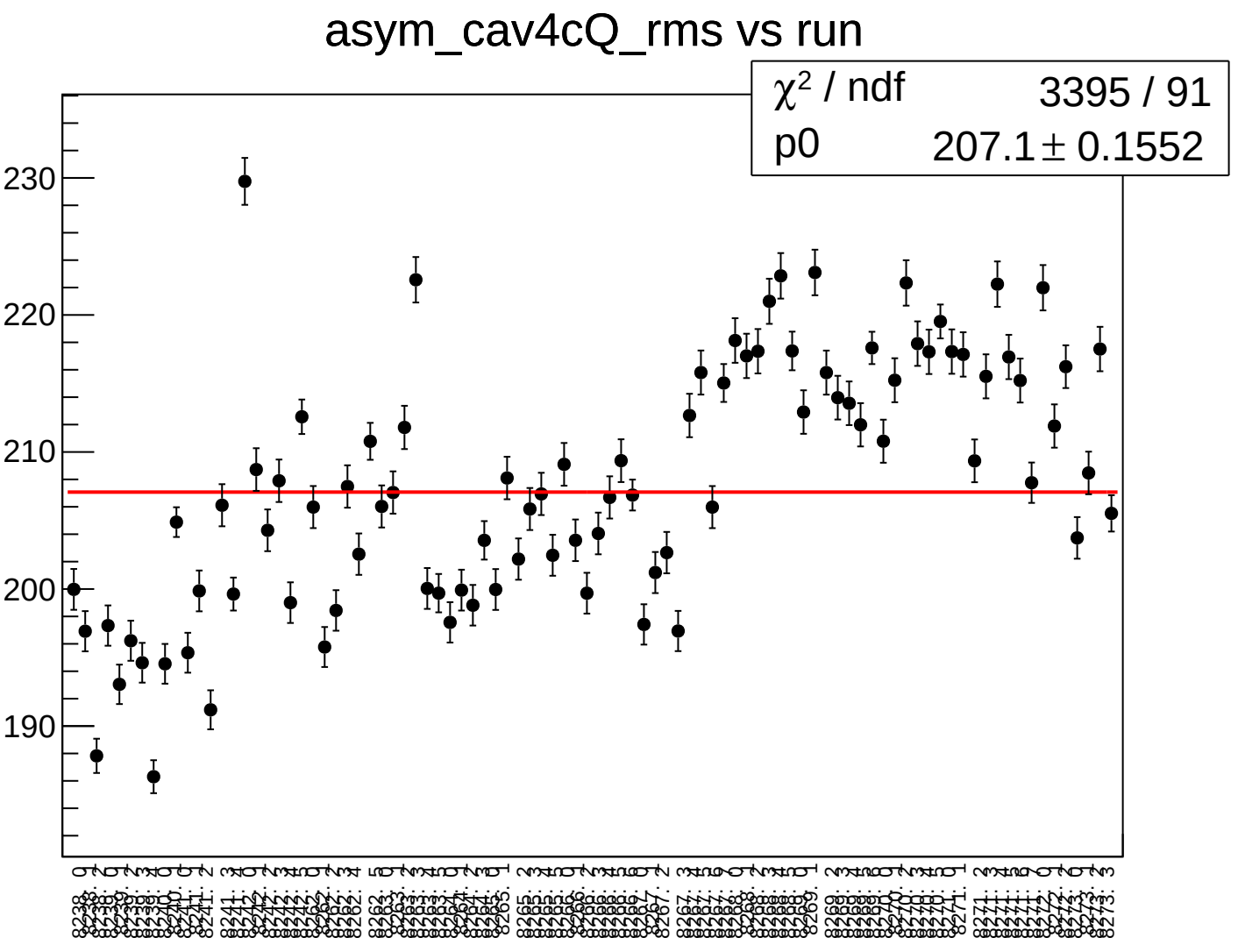

asym_bcm_dg_ds_rms vs run
$\chi^2$ / ndf 3458 / 91
p0 193 ± 0.1447
220
210
200
190
180
170

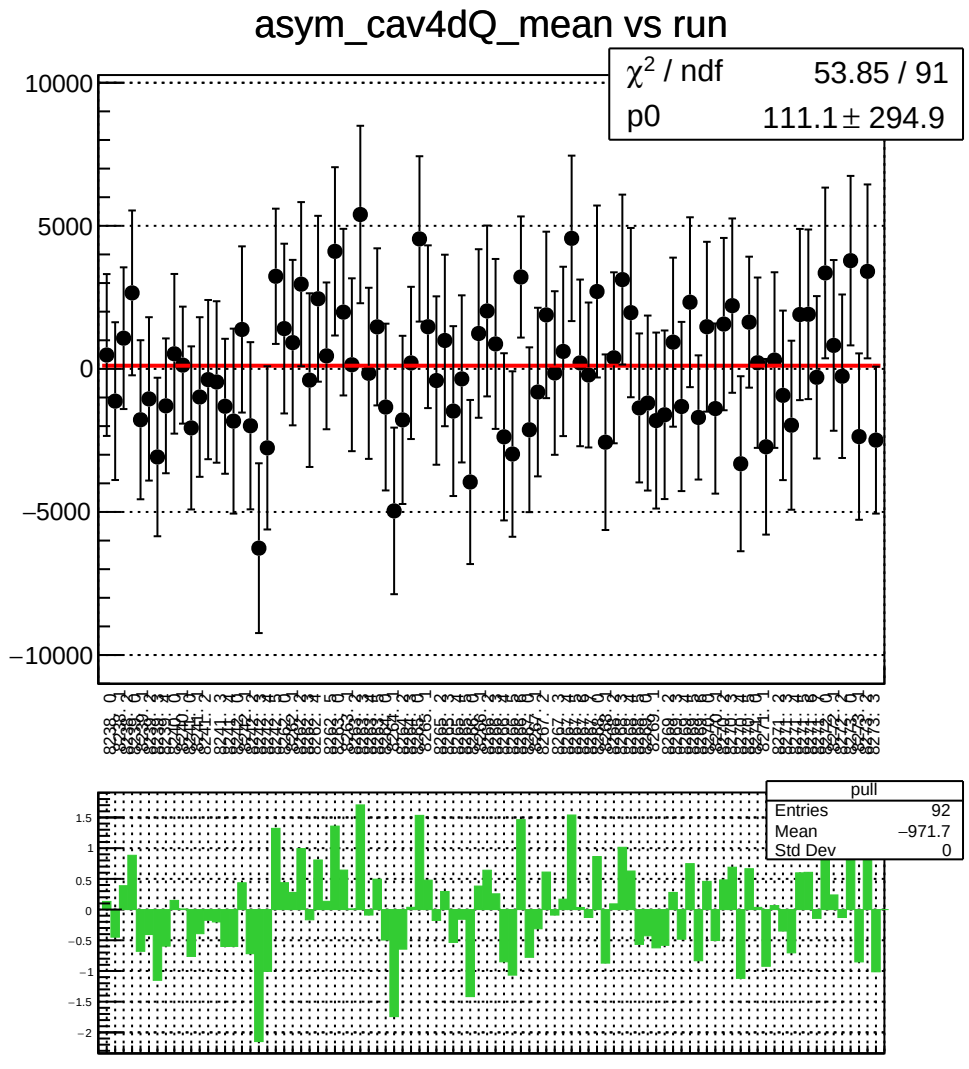

asym_cav4bQ_mean vs run
χ² / ndf 66.77 / 91
p0 −2802 ± 833.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −345.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.01395
Std Dev 0.8518
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

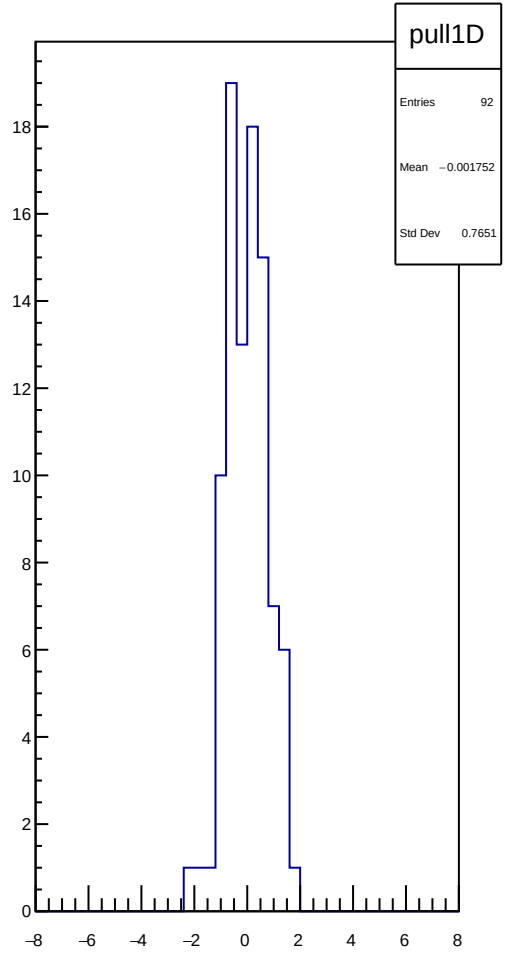

asym_cav4bQ_rms vs run
χ² / ndf 1.955e+04 / 91
p0 782.7 ± 0.5895
1000
900
800
700
600

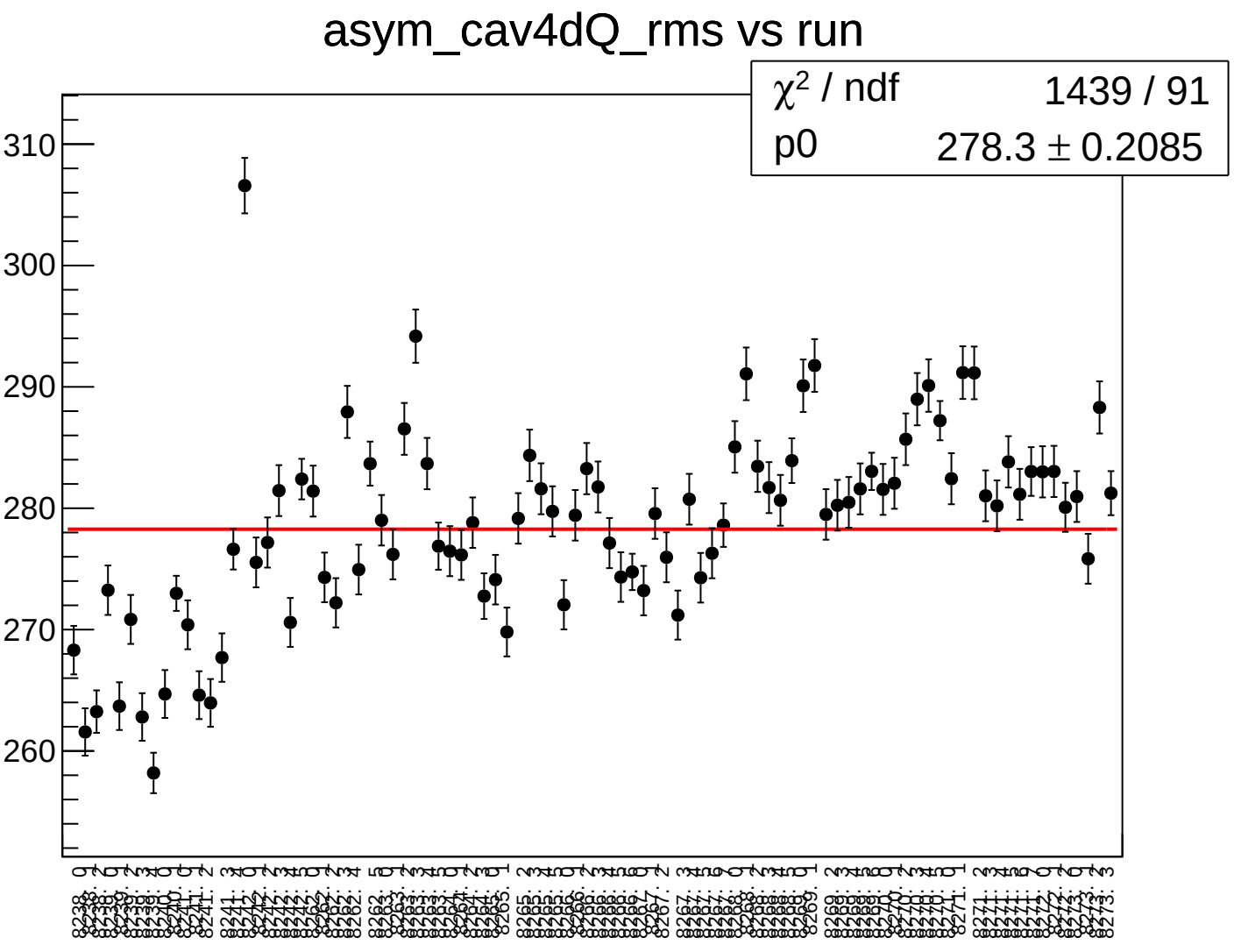

asym_cav4cQ_mean vs run
χ² / ndf 22.98 / 91
p0 −306.8 ± 219.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −5734
Std Dev 0
1
0.5
0
−0.5
−1

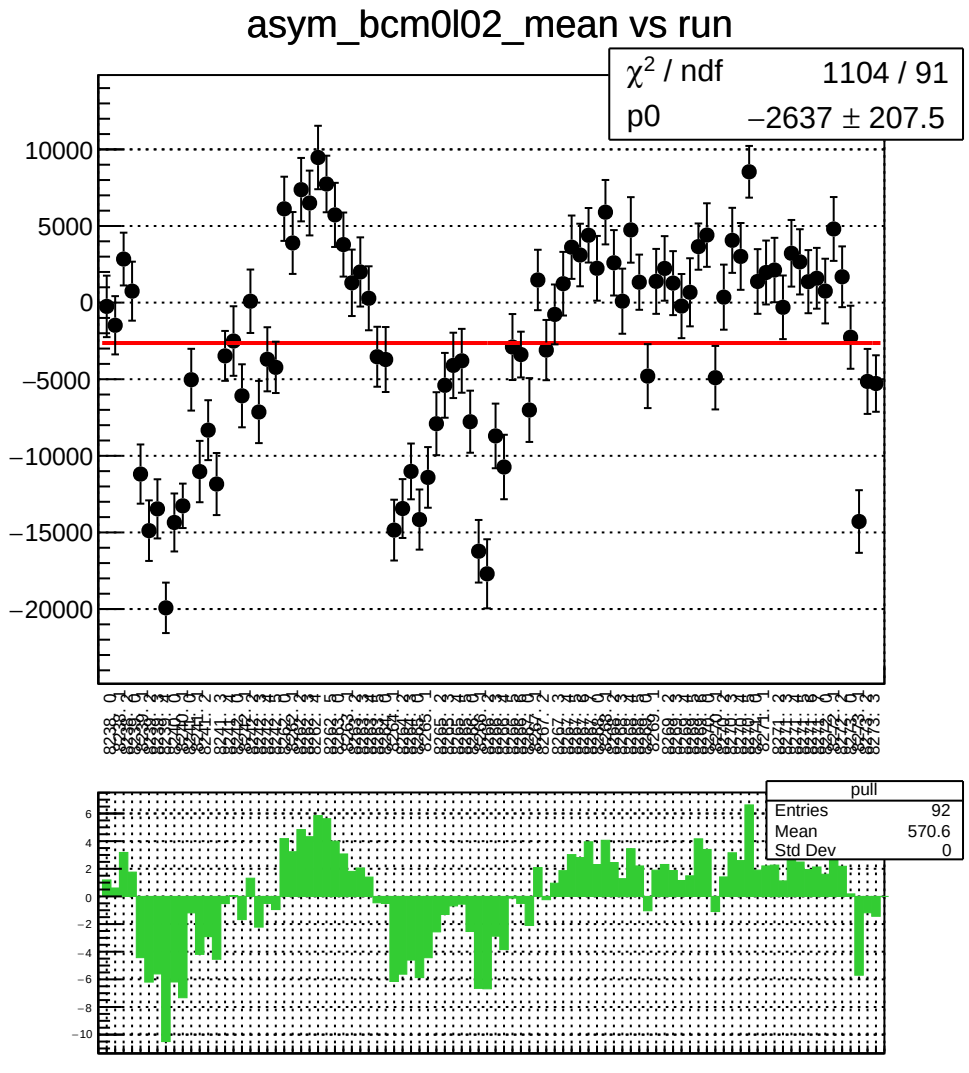

pull1D
Entries 92
Mean −5.389e−05
Std Dev 0.4997
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

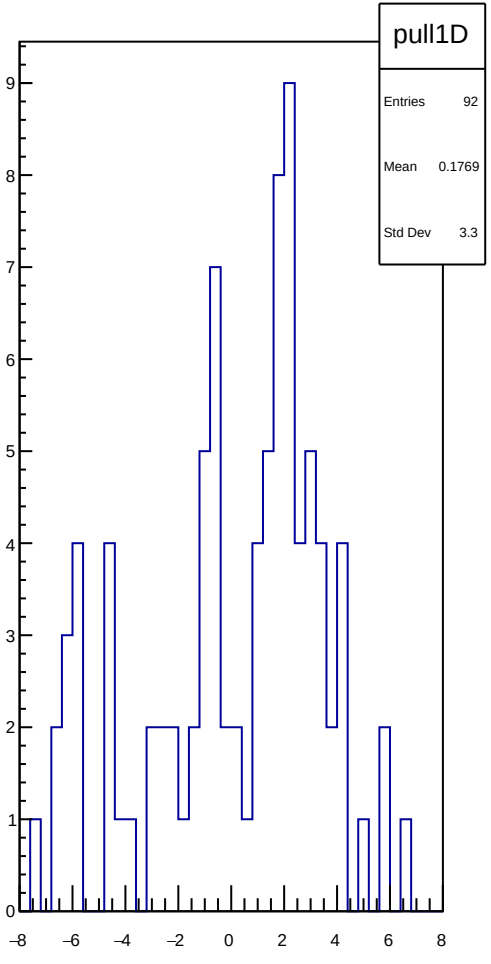

asym_cav4cQ_rms vs run
χ² / ndf 3395 / 91
p0 207.1 ± 0.1552
230
220
210
200
190

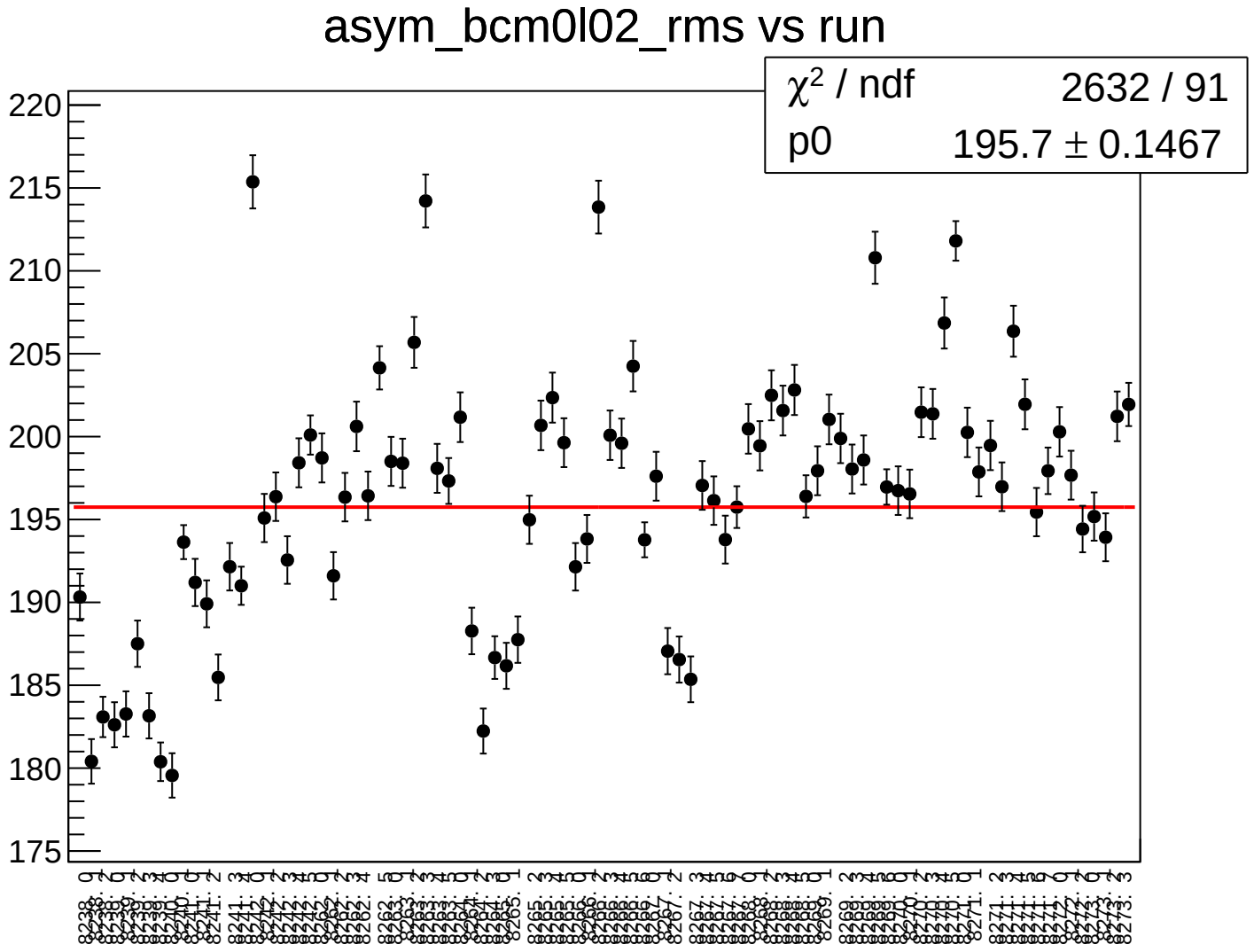

asym_cav4dQ_mean vs run
χ² / ndf 53.85 / 91
p0 111.1 ± 294.9
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −971.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

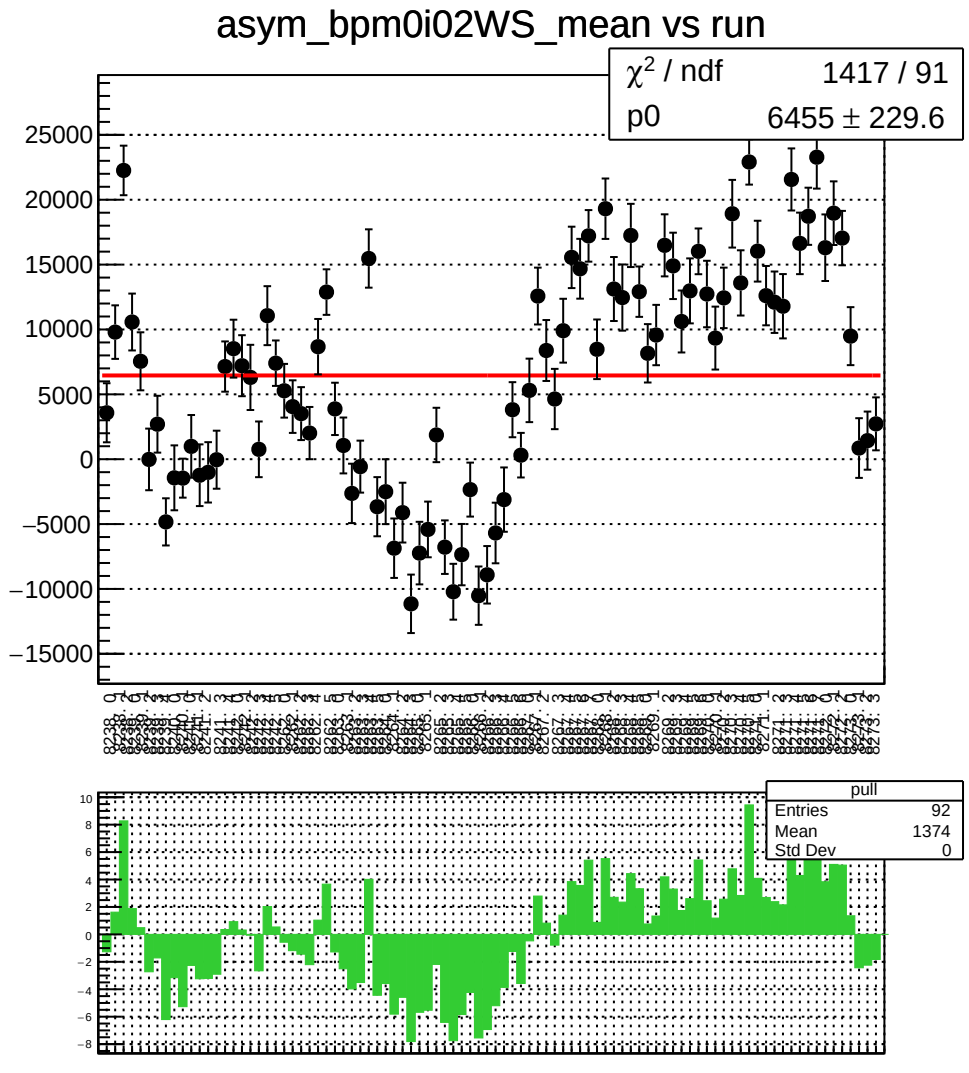

pull1D
Entries 92
Mean −0.001752
Std Dev 0.7651
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

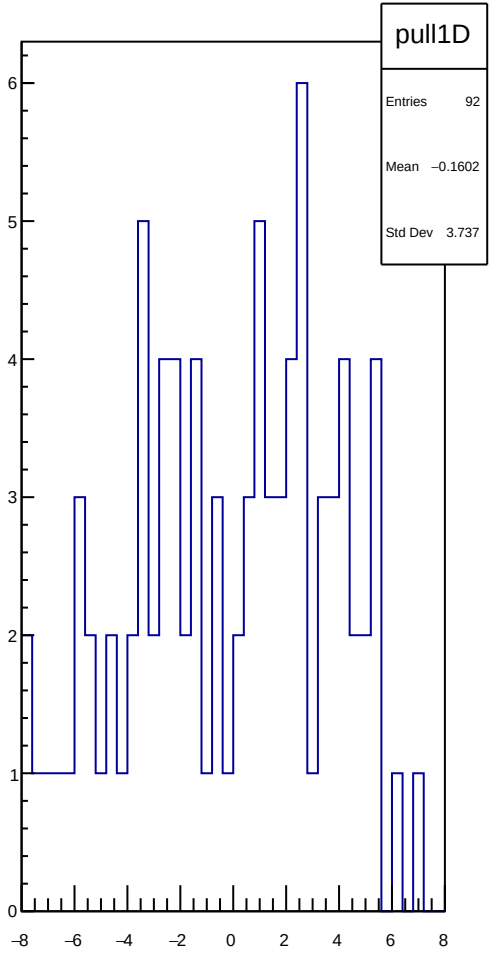

asym_cav4dQ_rms vs run
$\chi^2$ / ndf 1439 / 91
p0 278.3 ± 0.2085
310
300
290
280
270
260

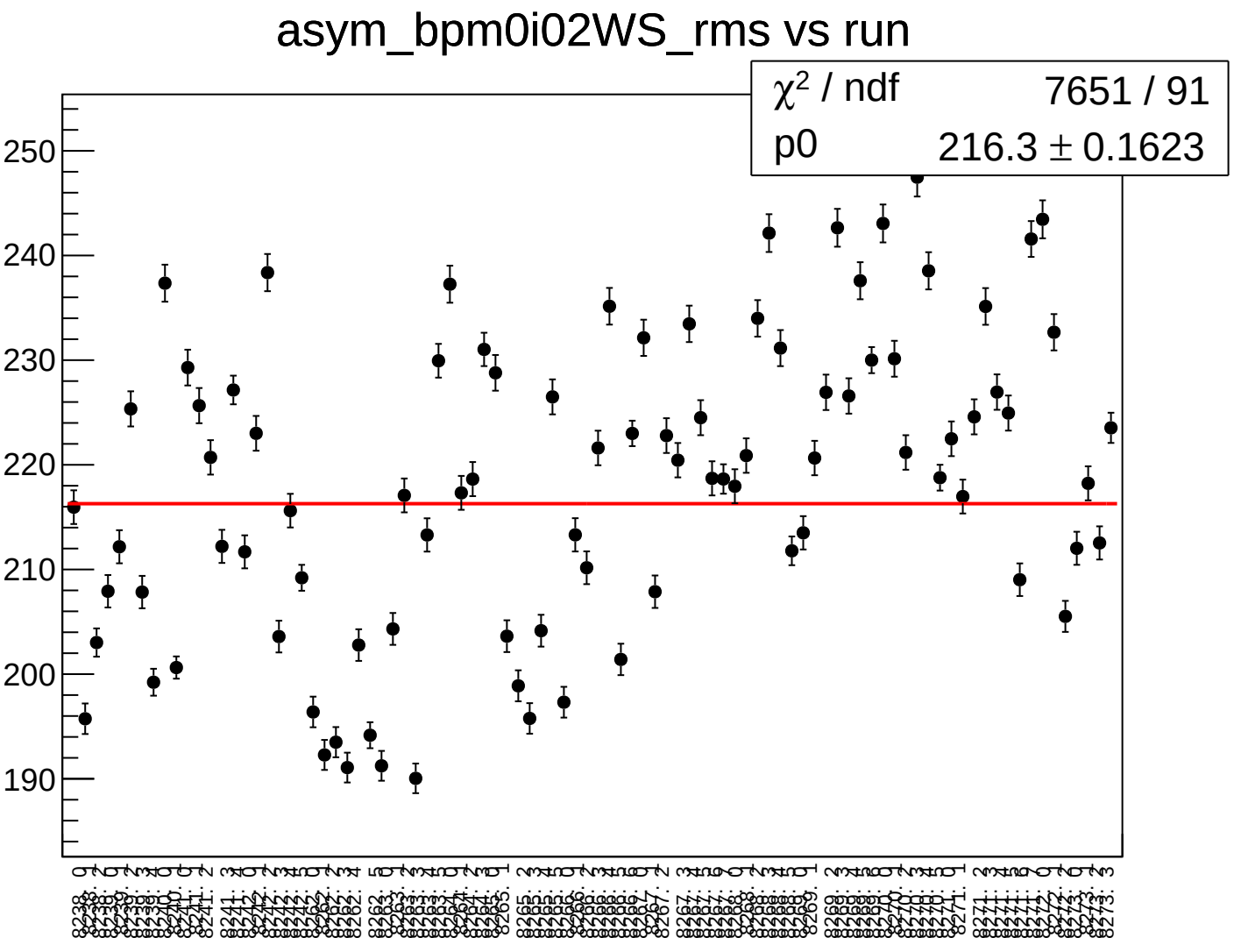

asym_bcm0l02_mean vs run
χ² / ndf 1104 / 91
p0 −2637 ± 207.5
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean 570.6
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10

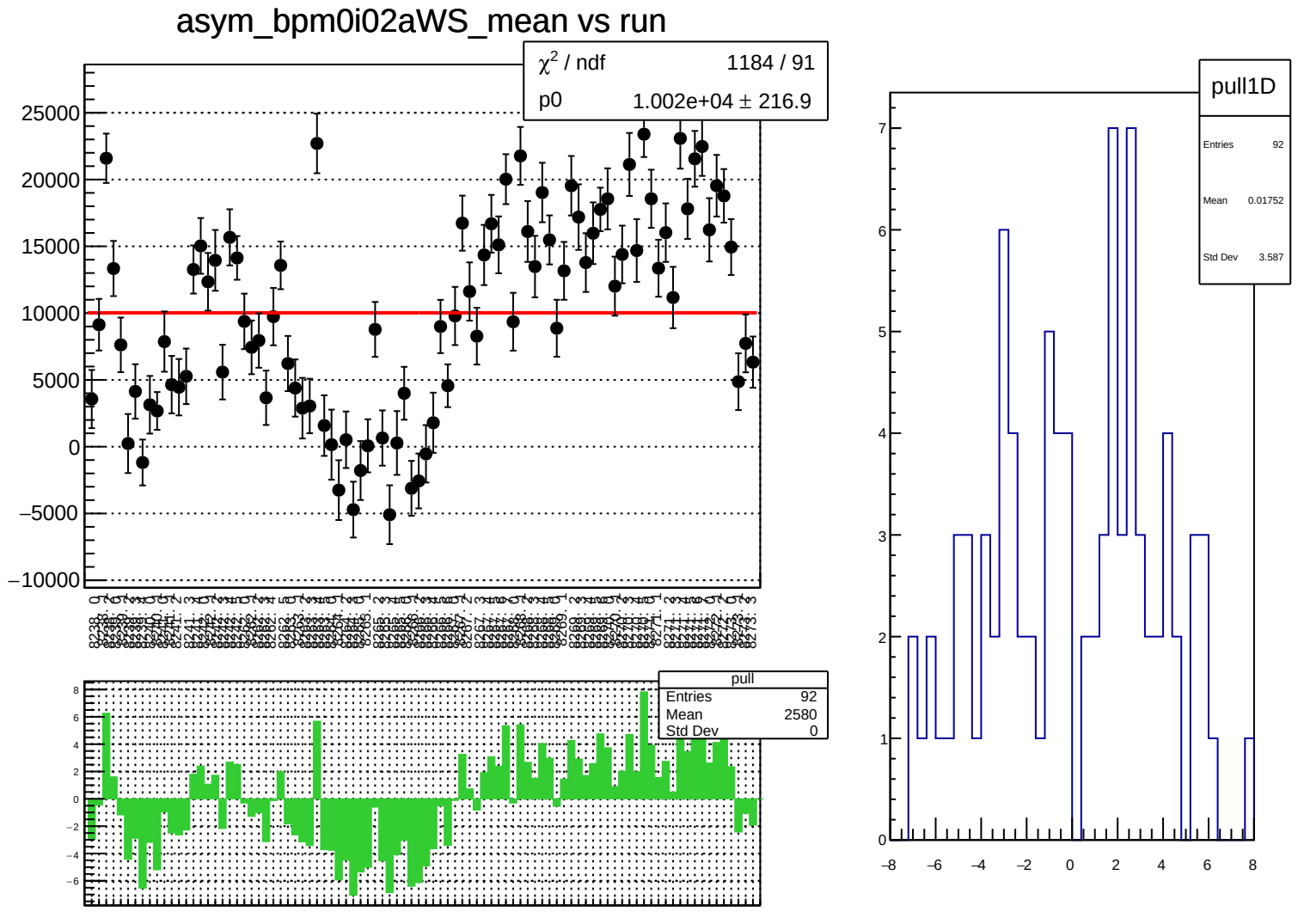

pull1D
Entries 92
Mean 0.1769
Std Dev 3.3
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

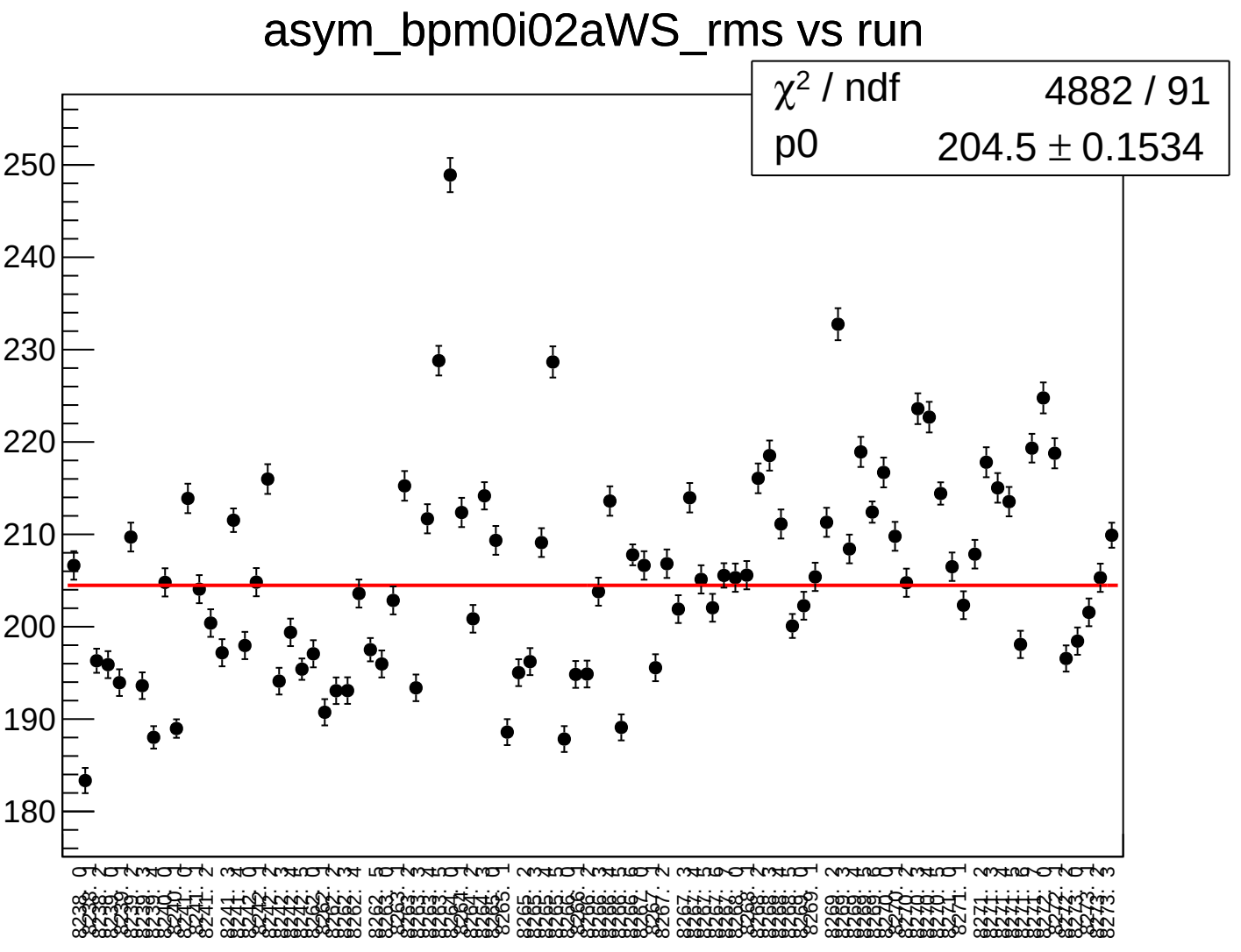

asym_bcm0l02_rms vs run
χ² / ndf 2632 / 91
p0 195.7 ± 0.1467
220
215
210
205
200
195
190
185
180
175

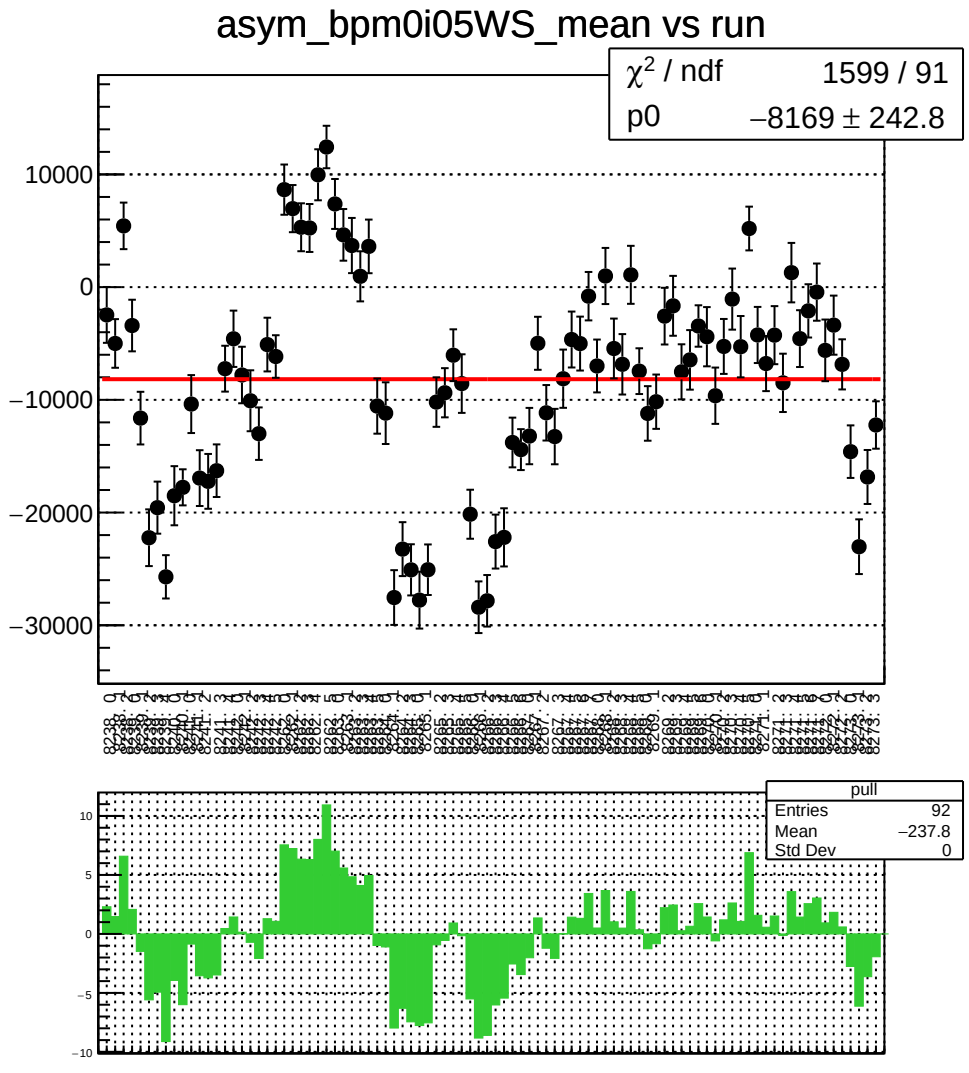

asym_bpm0i02WS_mean vs run
χ² / ndf 1417 / 91
p0 6455 ± 229.6
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 1374
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
−8

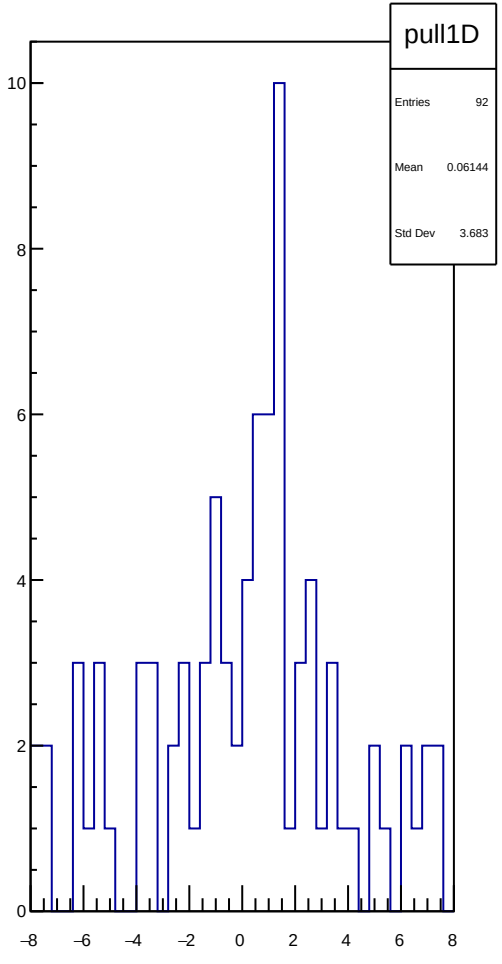

pull1D
Entries 92
Mean −0.1602
Std Dev 3.737
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

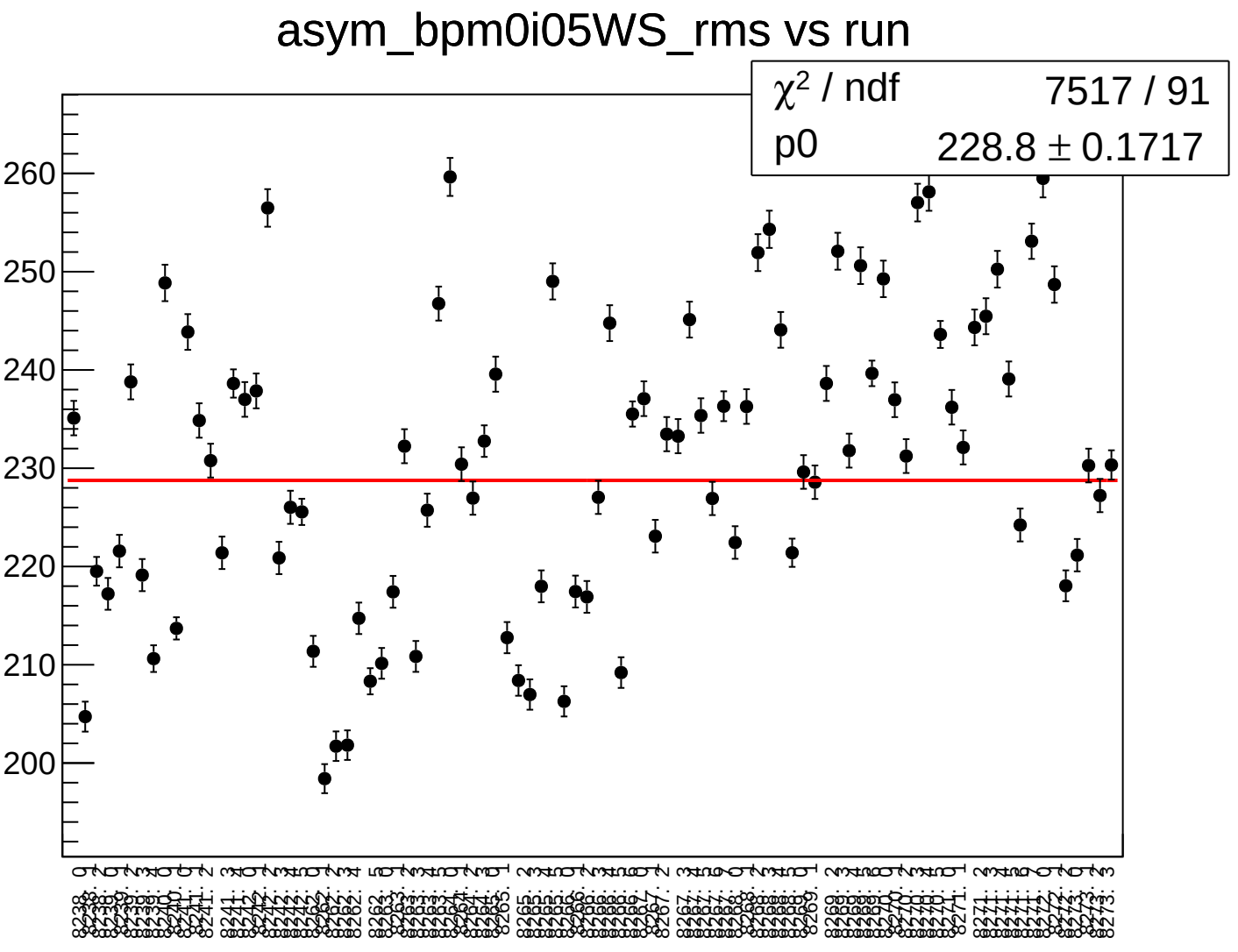

asym_bpm0i02WS_rms vs run
χ² / ndf 7651 / 91
p0 216.3 ± 0.1623
250
240
230
220
210
200
190

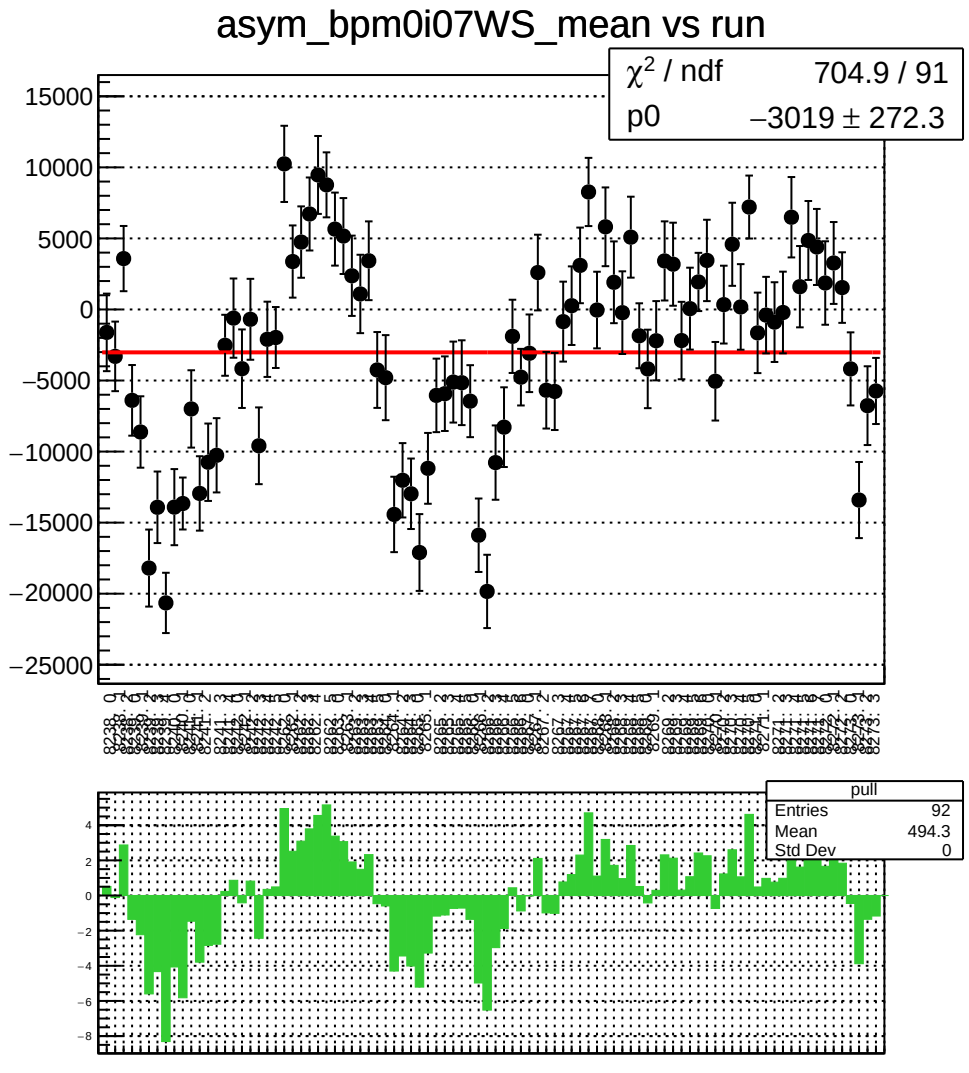

asym_bpm0i02aWS_mean vs run
χ² / ndf 1184 / 91
p0 1.002e+04 ± 216.9
pull
Entries 92
Mean 2580
Std Dev 0
pull1D
Entries 92
Mean 0.01752
Std Dev 3.587

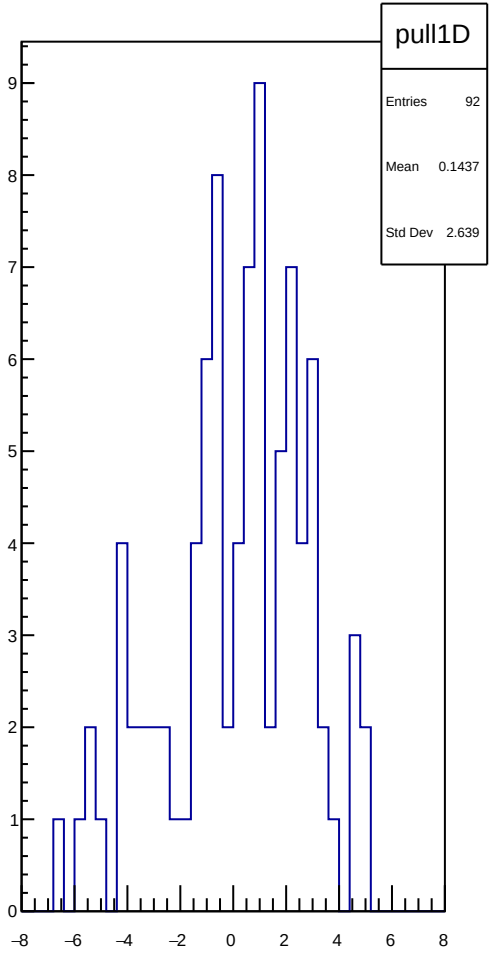

asym_bpm0i02aWS_rms vs run
χ² / ndf 4882 / 91
p0 204.5 ± 0.1534
250
240
230
220
210
200
190
180

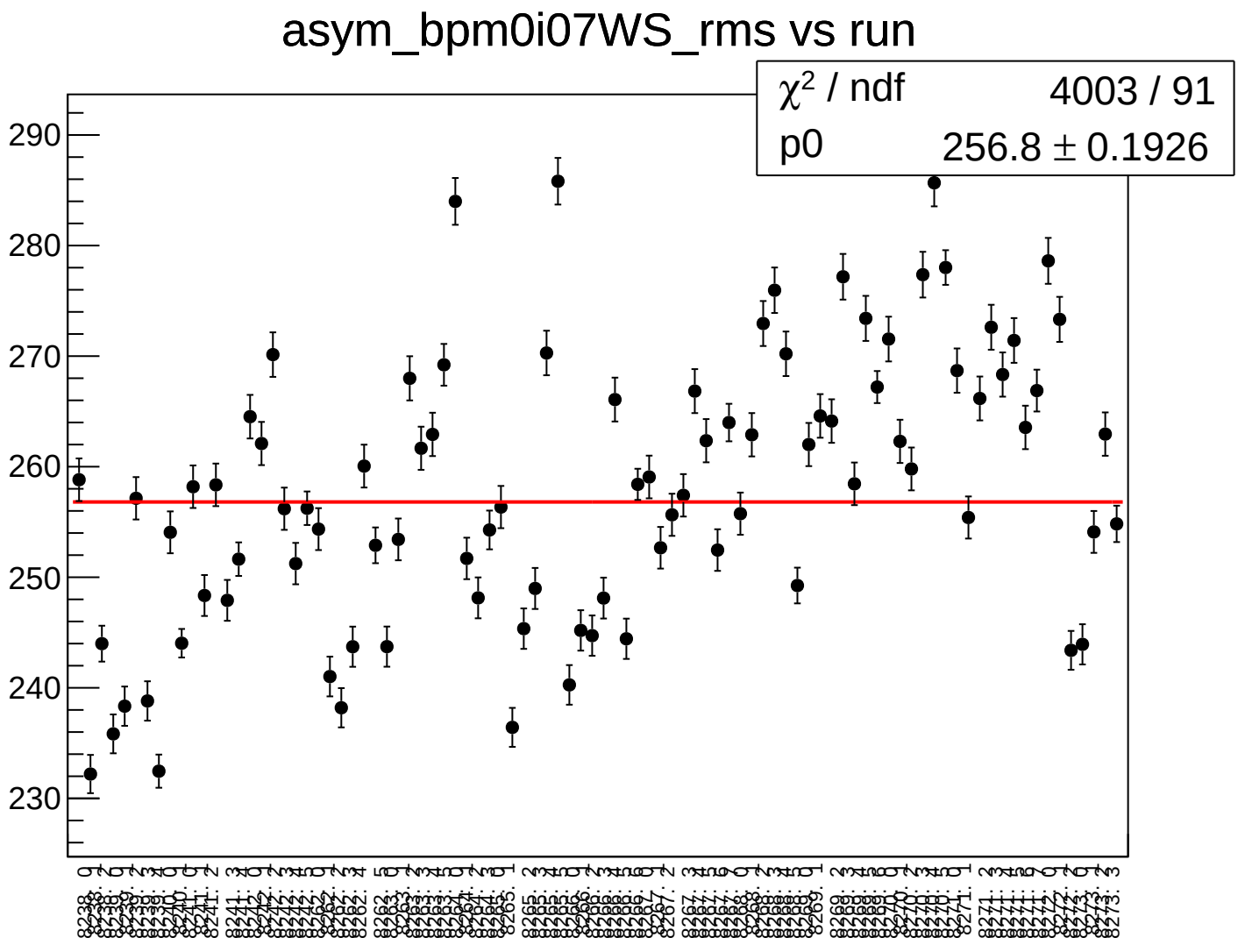

asym_bpm0i05WS_mean vs run
χ² / ndf 1599 / 91
p0 −8169 ± 242.8
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −237.8
Std Dev 0
10
5
0
−5
−10

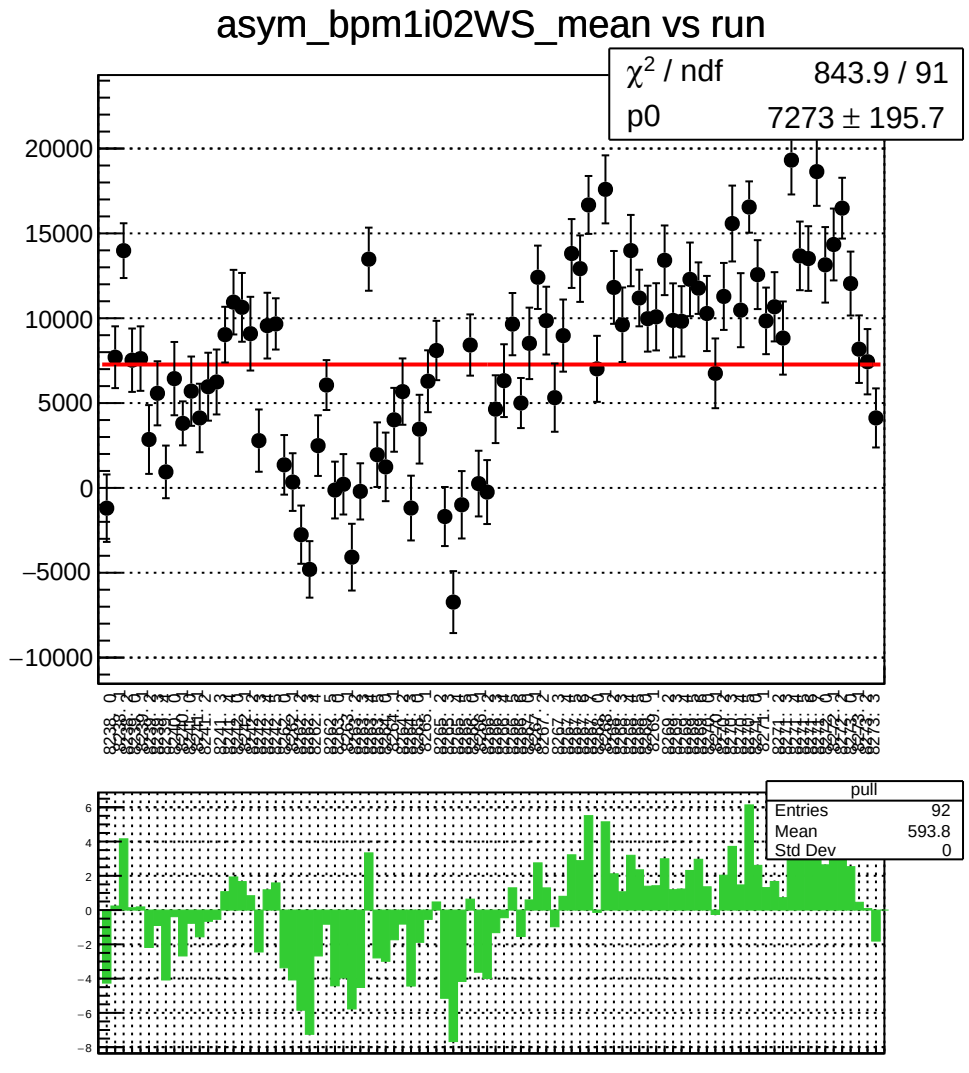

pull1D
Entries 92
Mean 0.06144
Std Dev 3.683
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

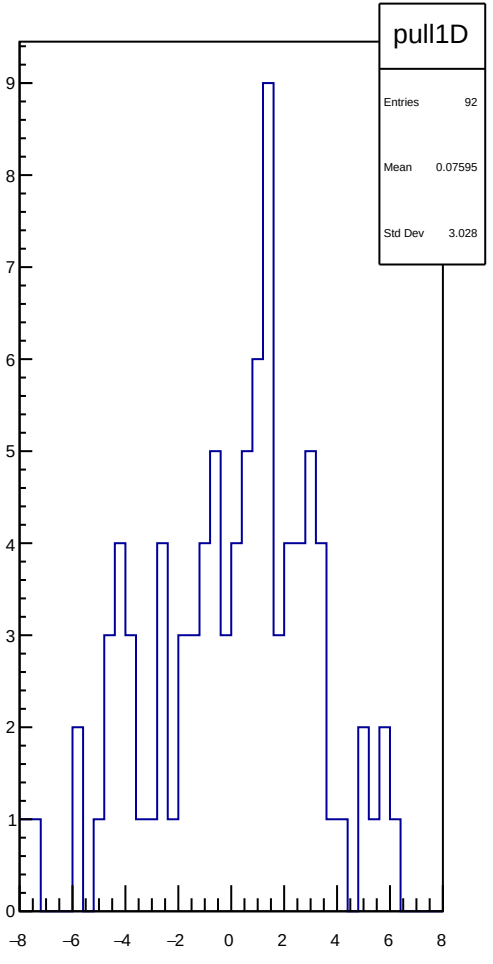

asym_bpm0i05WS_rms vs run
χ² / ndf 7517 / 91
p0 228.8 ± 0.1717
260
250
240
230
220
210
200

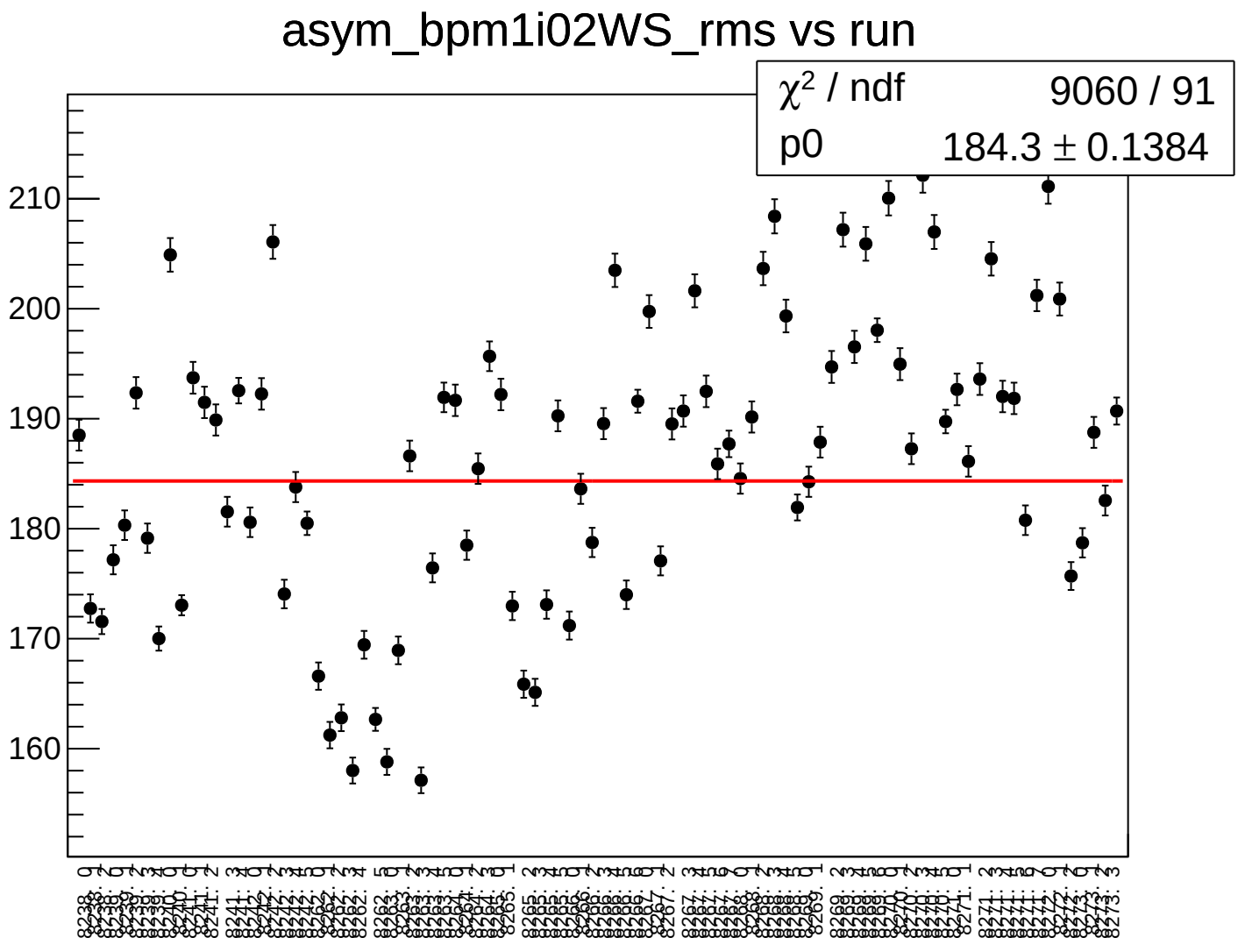

asym_bpm0i07WS_mean vs run
χ² / ndf 704.9 / 91
p0 −3019 ± 272.3
pull
Entries 92
Mean 494.3
Std Dev 0

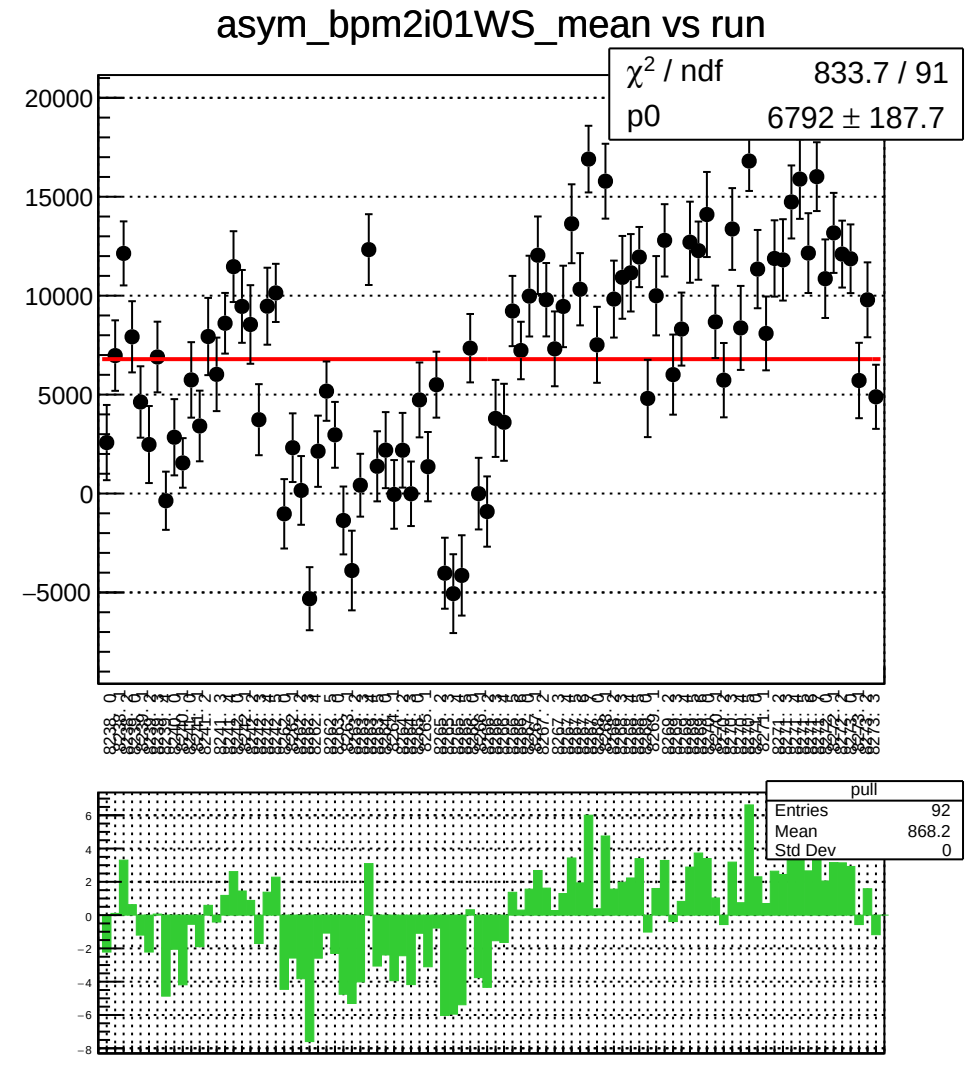

pull1D
Entries 92
Mean 0.1437
Std Dev 2.639

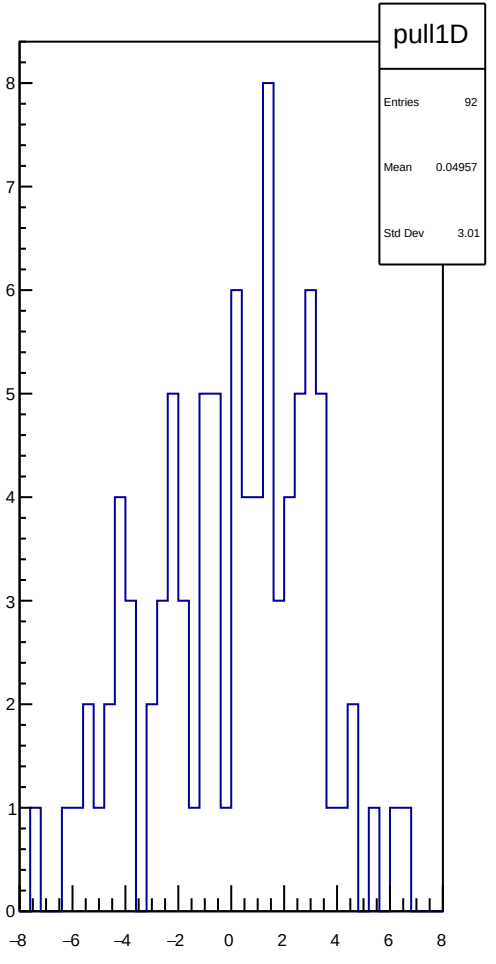

asym_bpm0i07WS_rms vs run
χ² / ndf 4003 / 91
p0 256.8 ± 0.1926
290
280
270
260
250
240
230

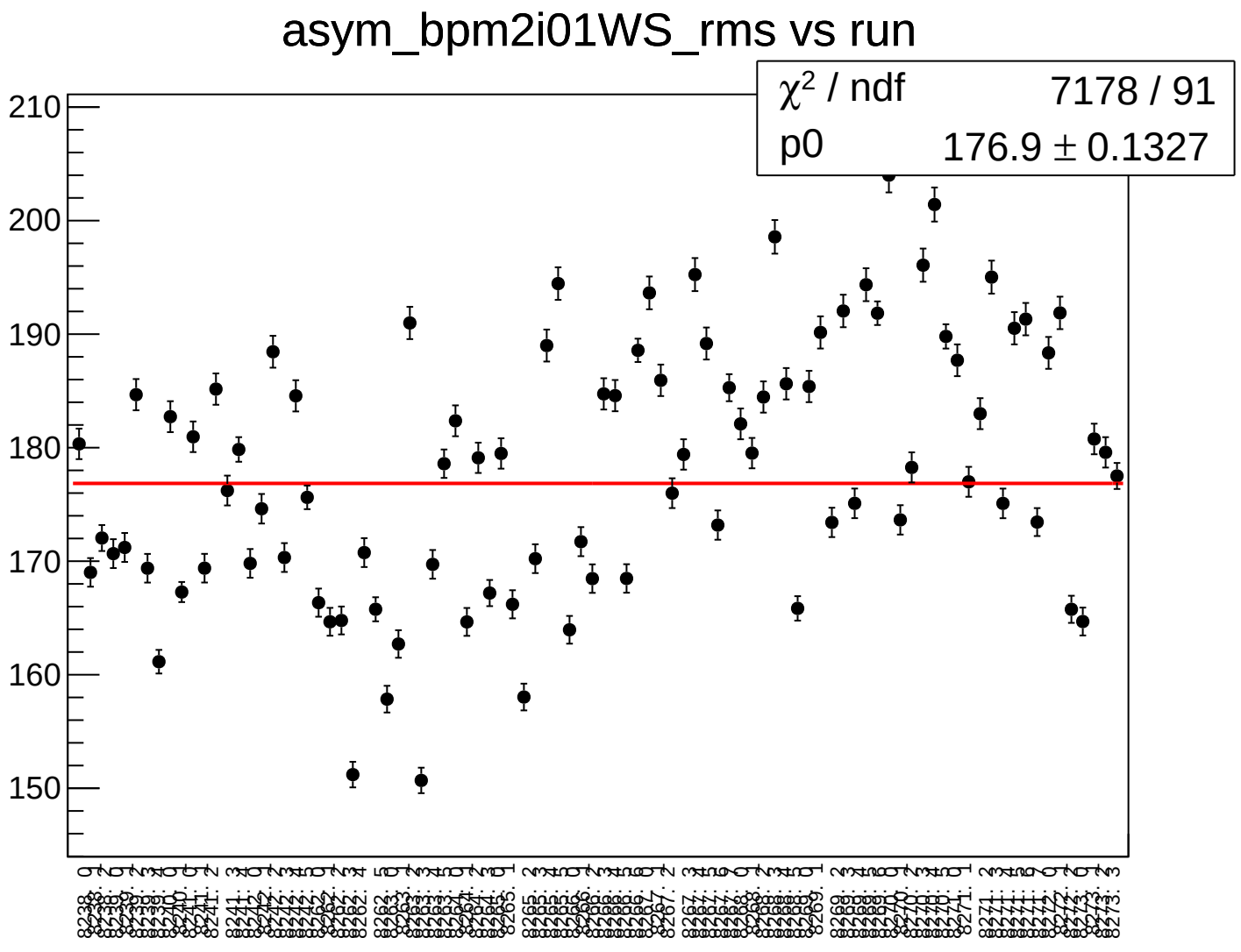

asym_bpm1i02WS_mean vs run
χ² / ndf 843.9 / 91
p0 7273 ± 195.7
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 593.8
Std Dev 0
6
4
2
0
−2
−4
−6
−8

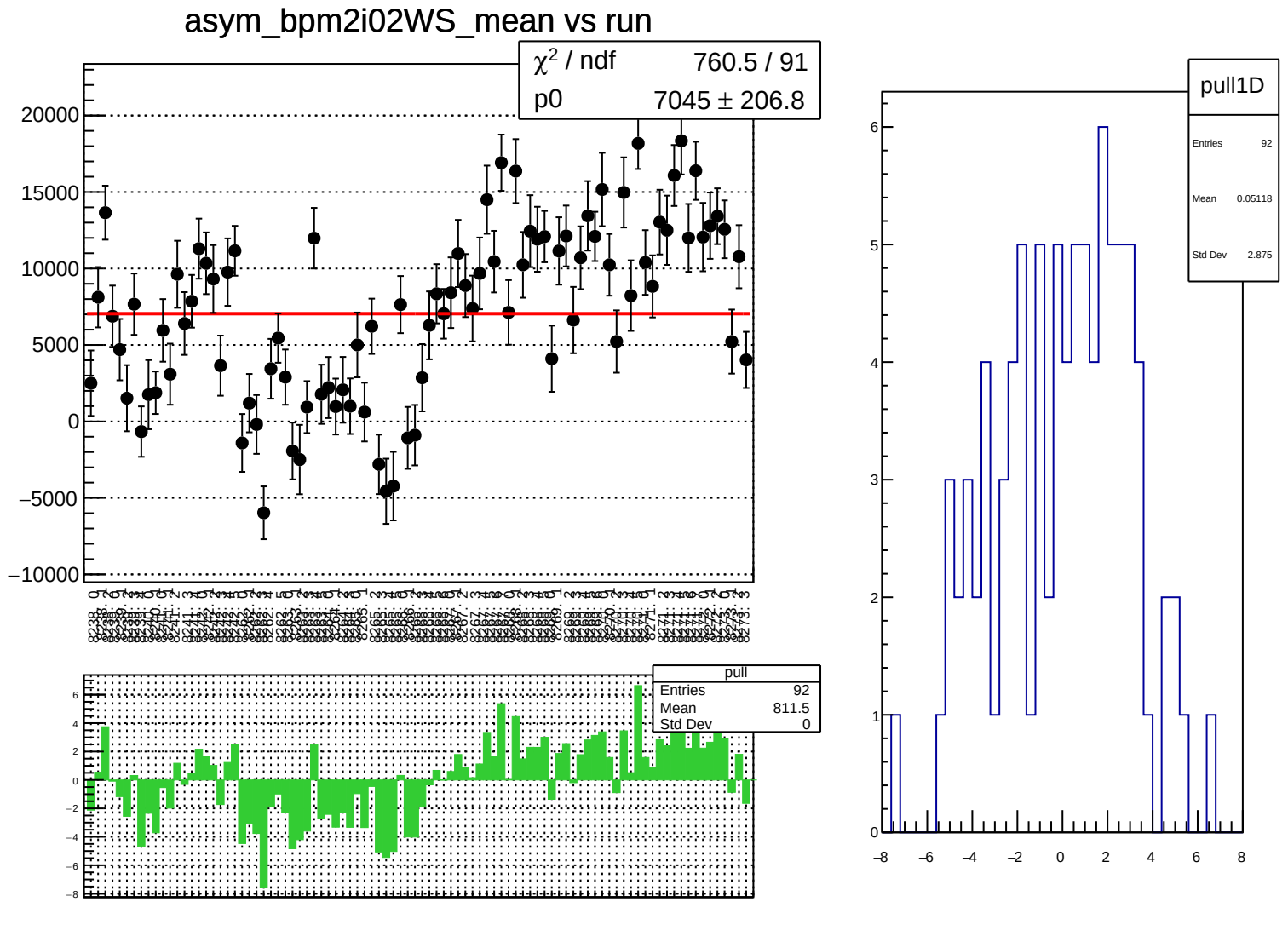

pull1D
Entries 92
Mean 0.07595
Std Dev 3.028
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

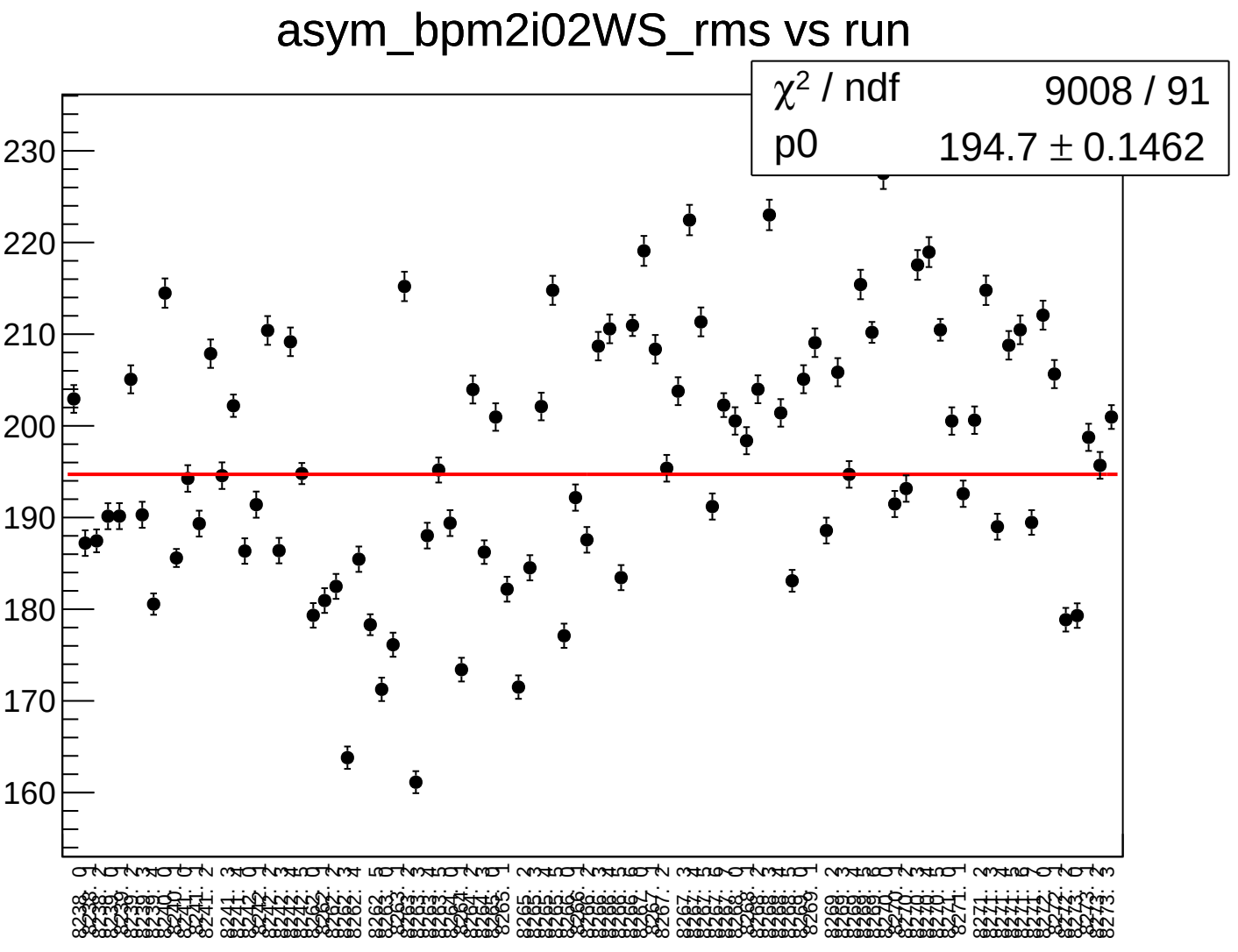

asym_bpm1i02WS_rms vs run
χ² / ndf 9060 / 91
p0 184.3 ± 0.1384
210
200
190
180
170
160

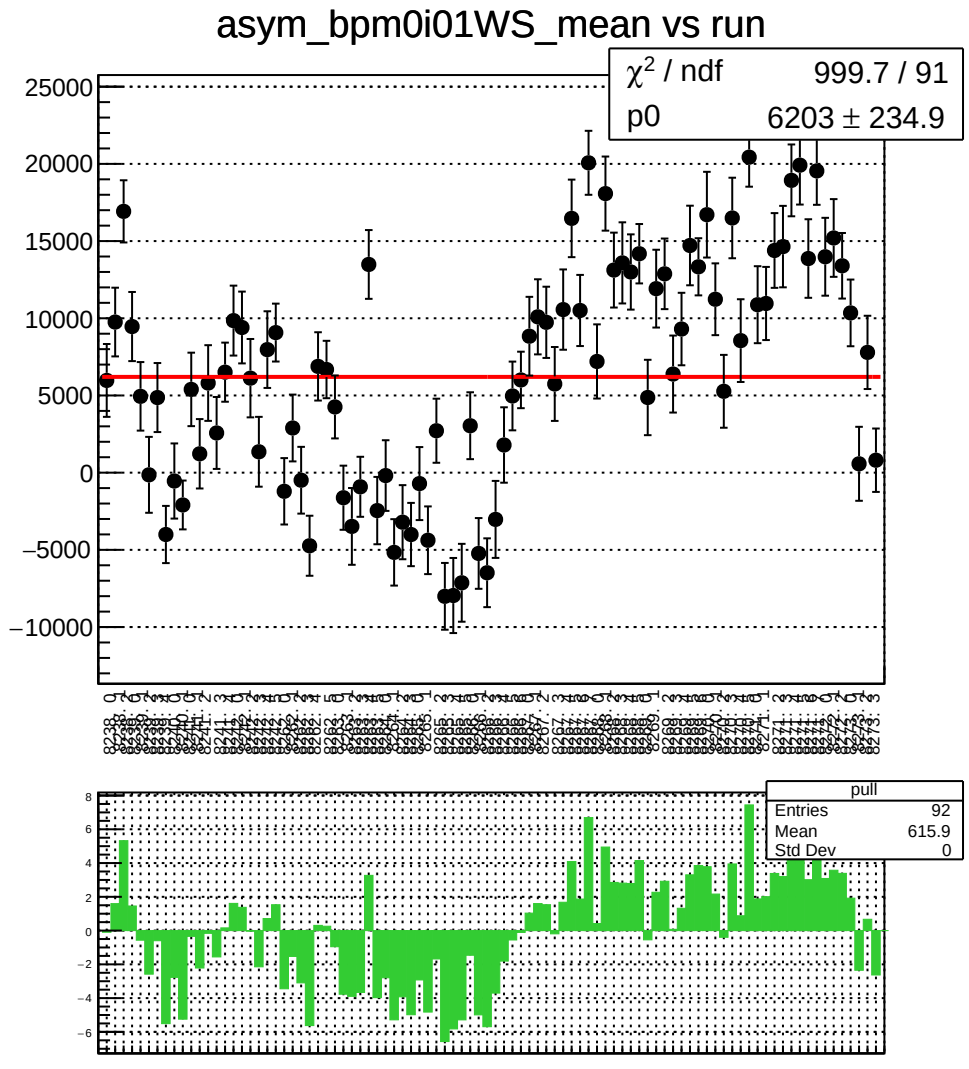

asym_bpm2i01WS_mean vs run
χ² / ndf 833.7 / 91
p0 6792 ± 187.7
20000
15000
10000
5000
0
−5000
pull
Entries 92
Mean 868.2
Std Dev 0
6
4
2
0
−2
−4
−6
−8

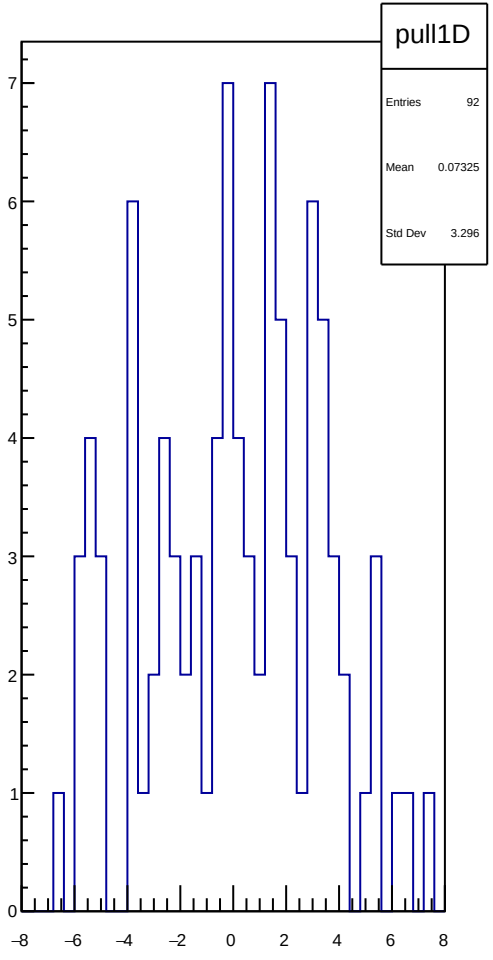

pull1D
Entries 92
Mean 0.04957
Std Dev 3.01
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

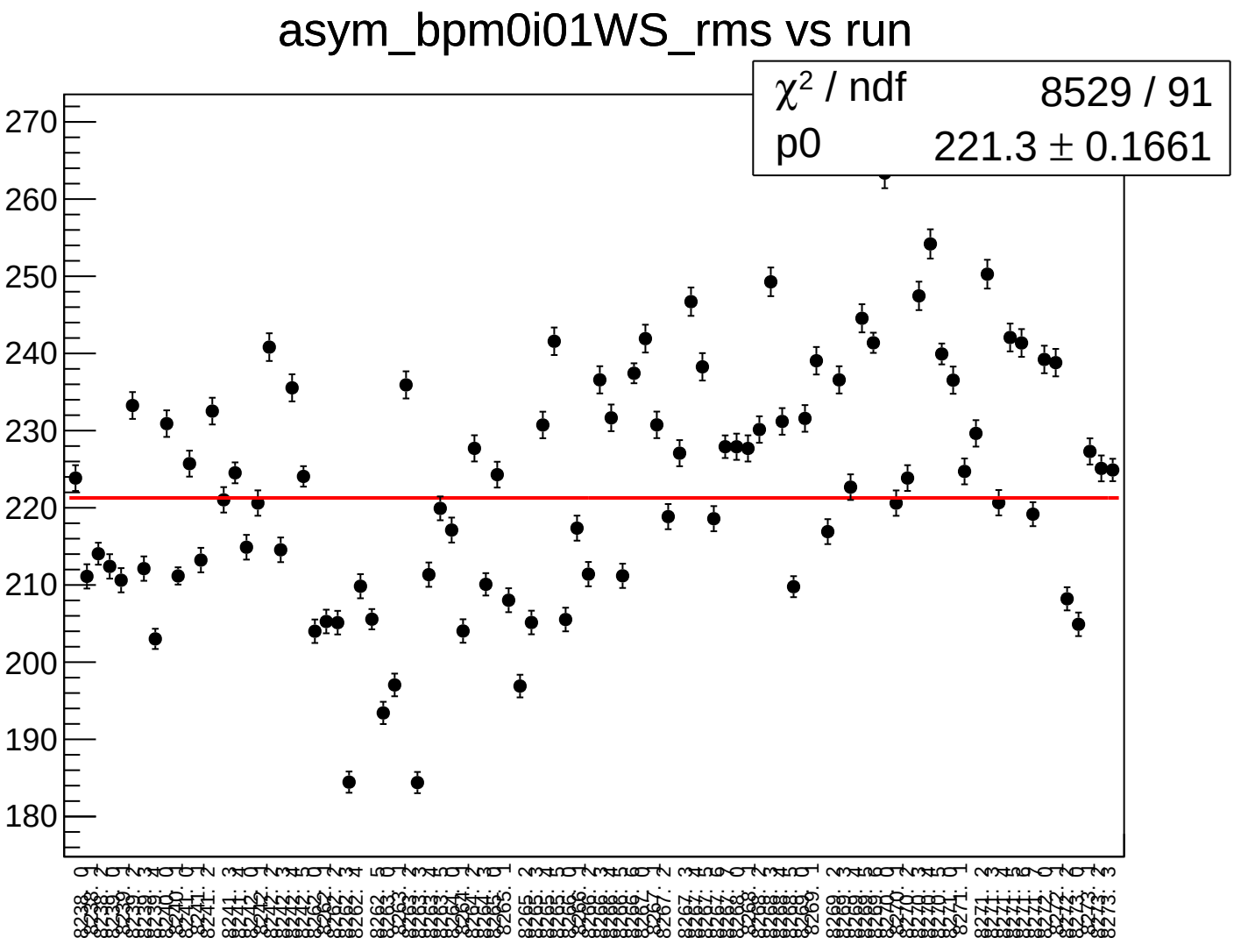

asym_bpm2i01WS_rms vs run
$\chi^2$ / ndf 7178 / 91
p0 176.9 ± 0.1327
210
200
190
180
170
160
150

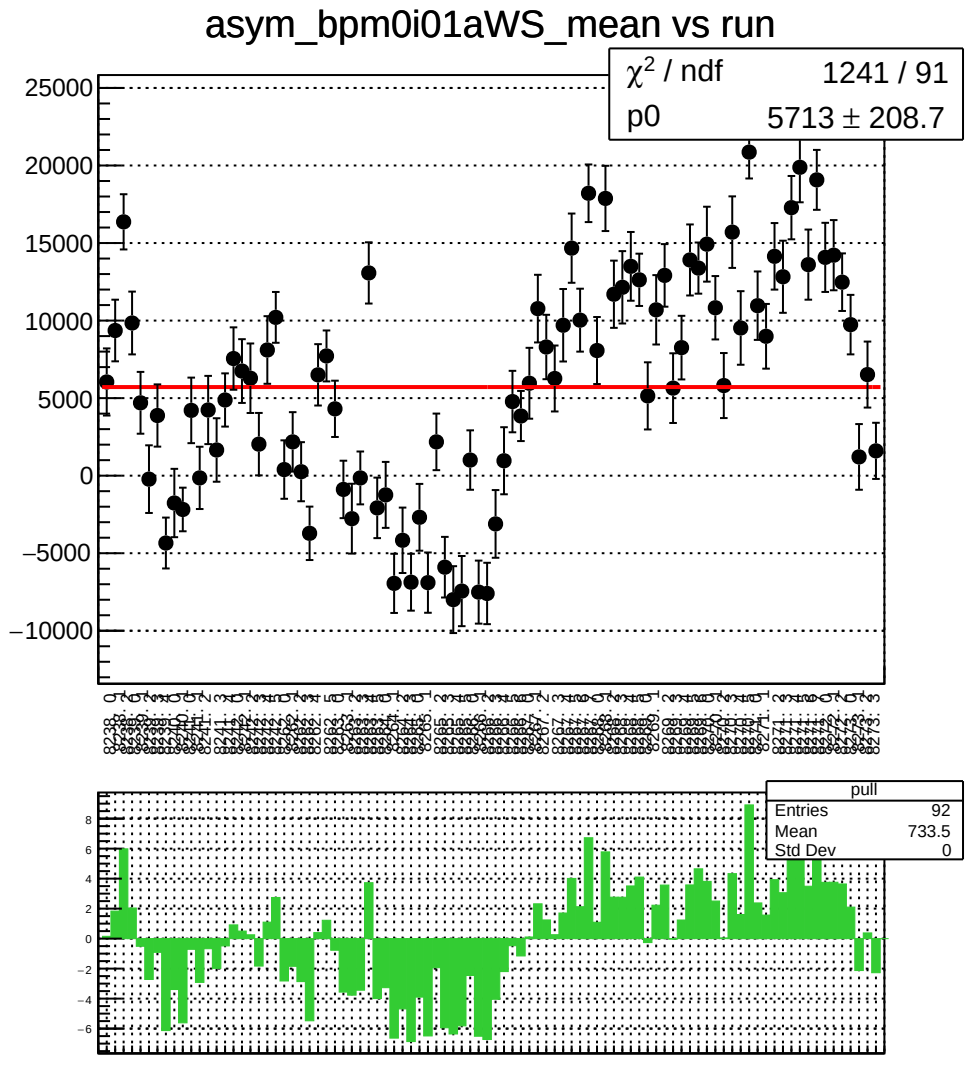

asym_bpm2i02WS_mean vs run
χ² / ndf 760.5 / 91
p0 7045 ± 206.8
pull
Entries 92
Mean 811.5
Std Dev 0
pull1D
Entries 92
Mean 0.05118
Std Dev 2.875

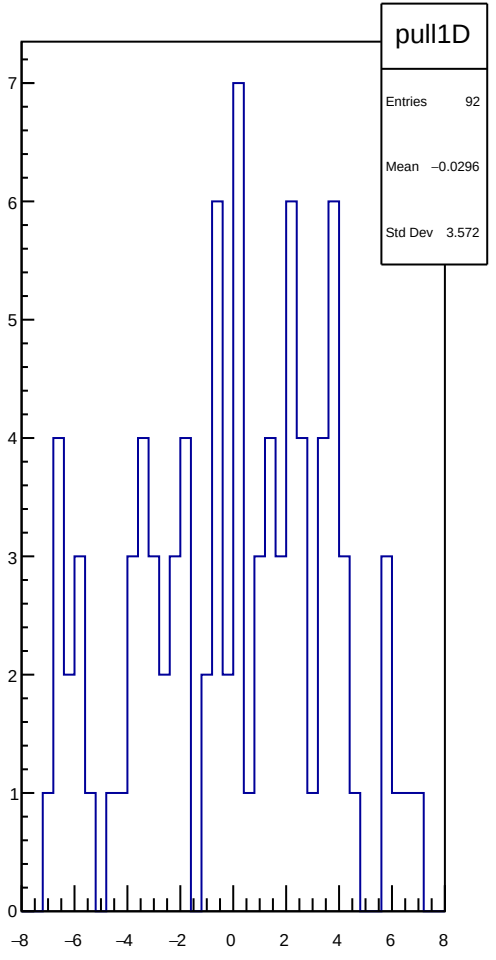

asym_bpm2i02WS_rms vs run
$\chi^2$ / ndf 9008 / 91
p0 194.7 ± 0.1462
230
220
210
200
190
180
170
160

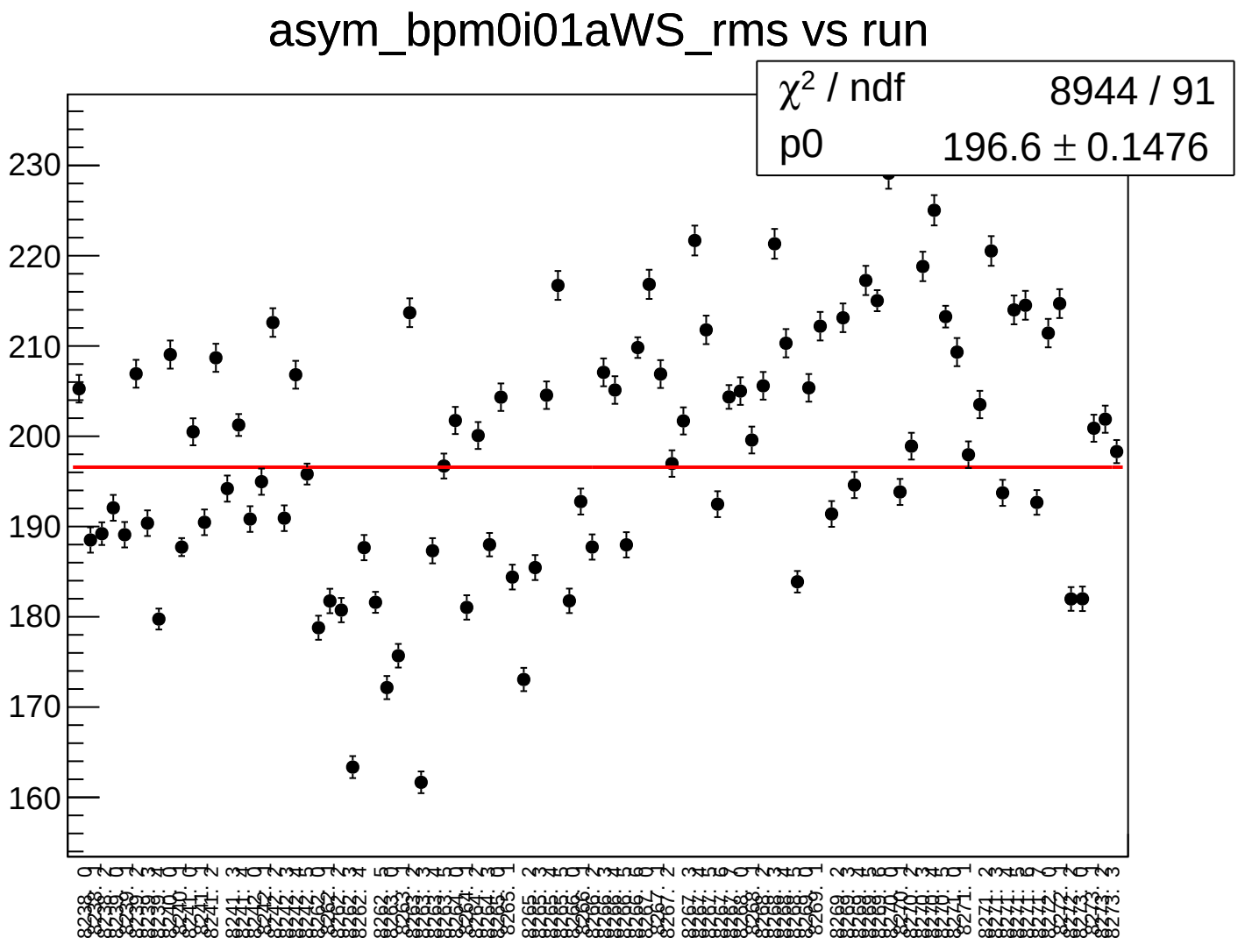

asym_bpm0i01WS_mean vs run
χ² / ndf 999.7 / 91
p0 6203 ± 234.9
pull
Entries 92
Mean 615.9
Std Dev 0

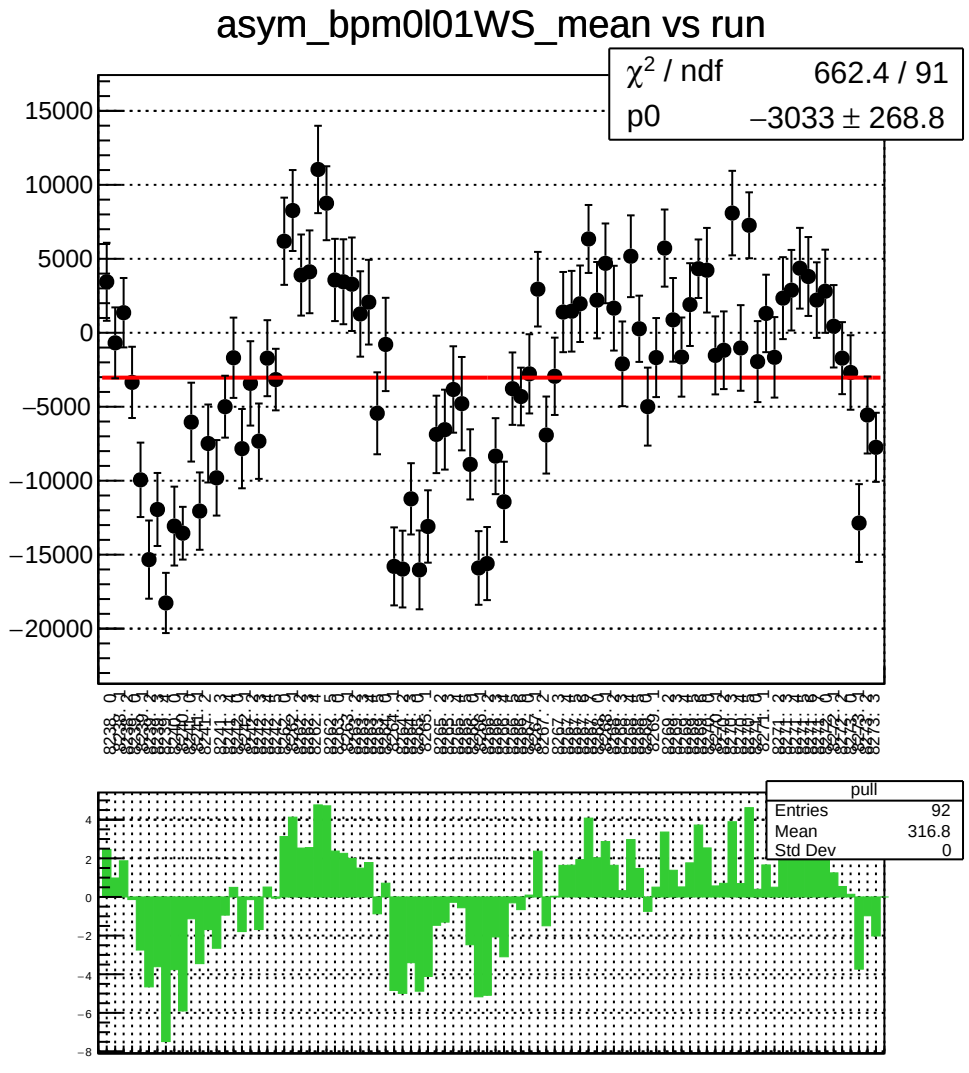

pull1D
Entries 92
Mean 0.07325
Std Dev 3.296

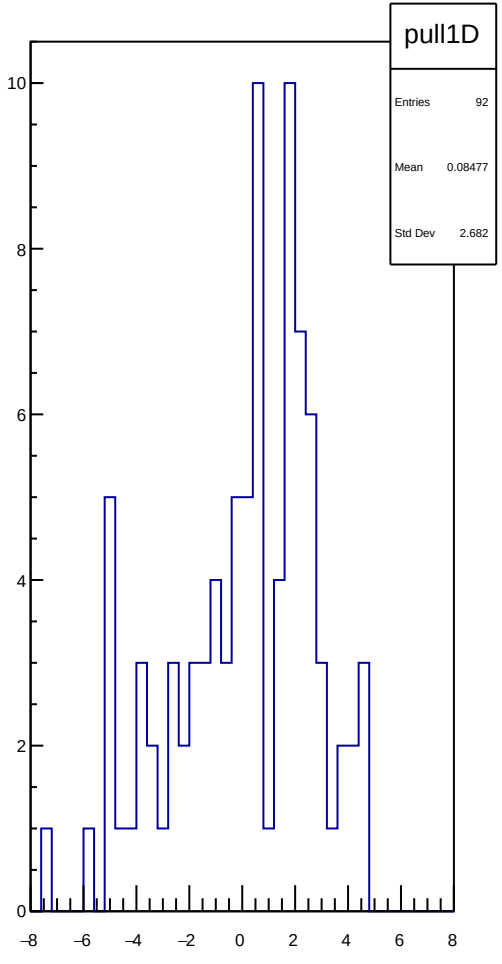

asym_bpm0i01WS_rms vs run
χ² / ndf 8529 / 91
p0 221.3 ± 0.1661
270
260
250
240
230
220
210
200
190
180

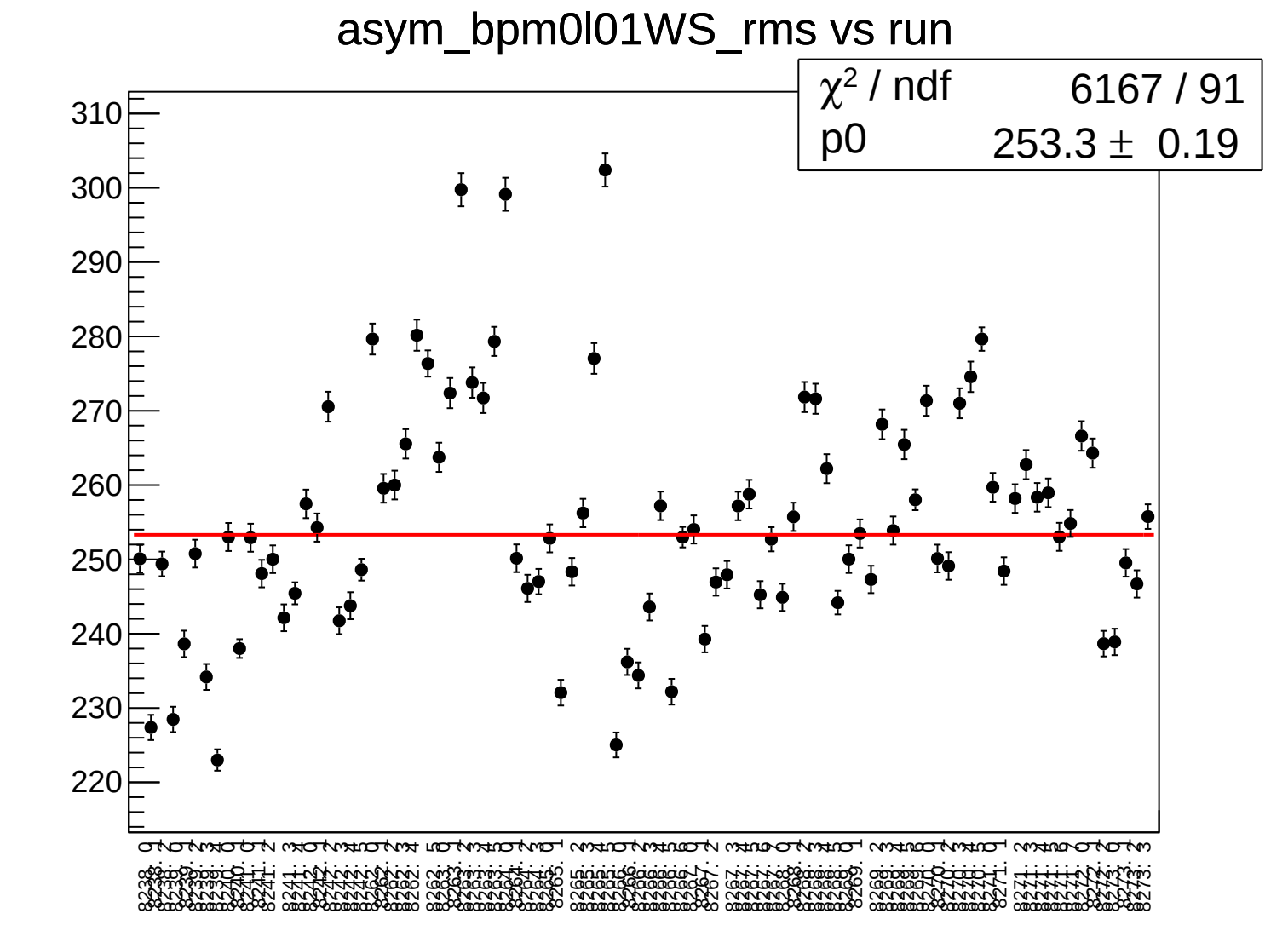

asym_bpm0i01aWS_mean vs run
χ² / ndf 1241 / 91
p0 5713 ± 208.7
pull
Entries 92
Mean 733.5
Std Dev 0

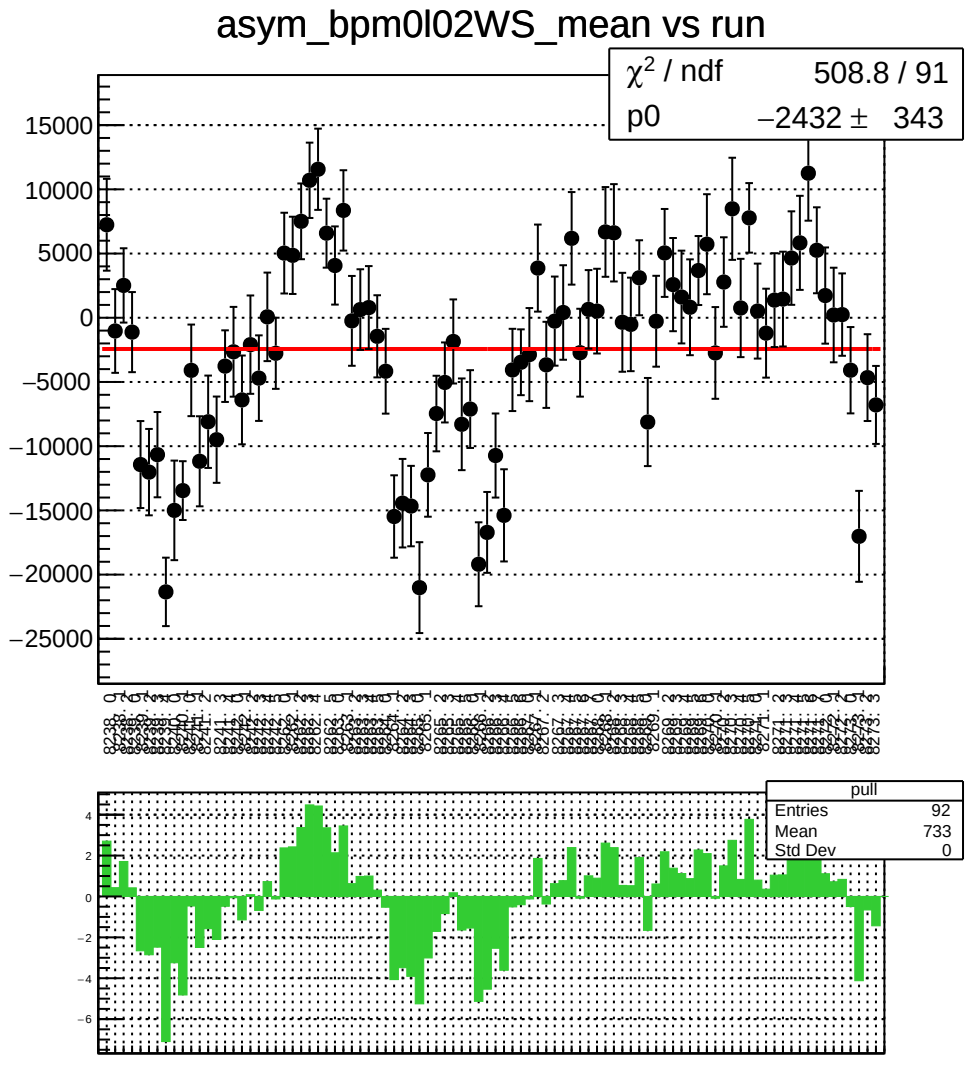

pull1D
Entries 92
Mean −0.0296
Std Dev 3.572

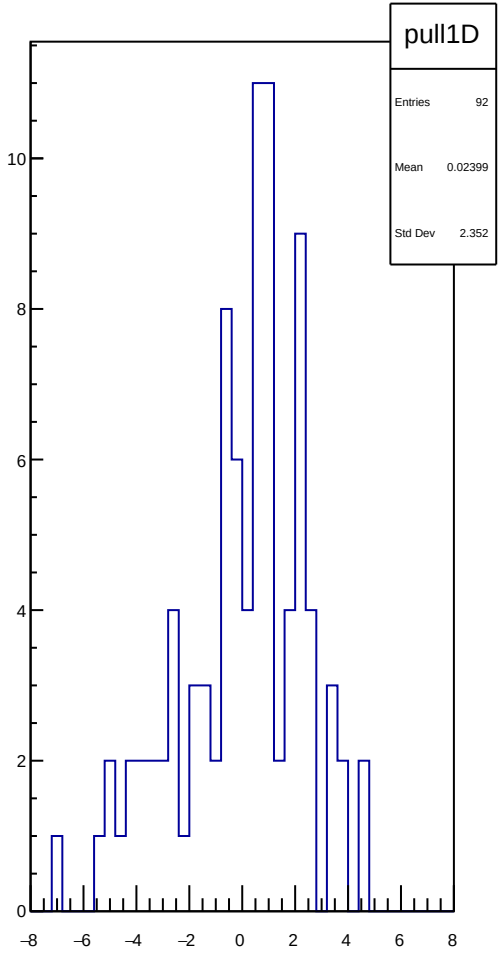

asym_bpm0i01aWS_rms vs run
χ² / ndf 8944 / 91
p0 196.6 ± 0.1476
230
220
210
200
190
180
170
160

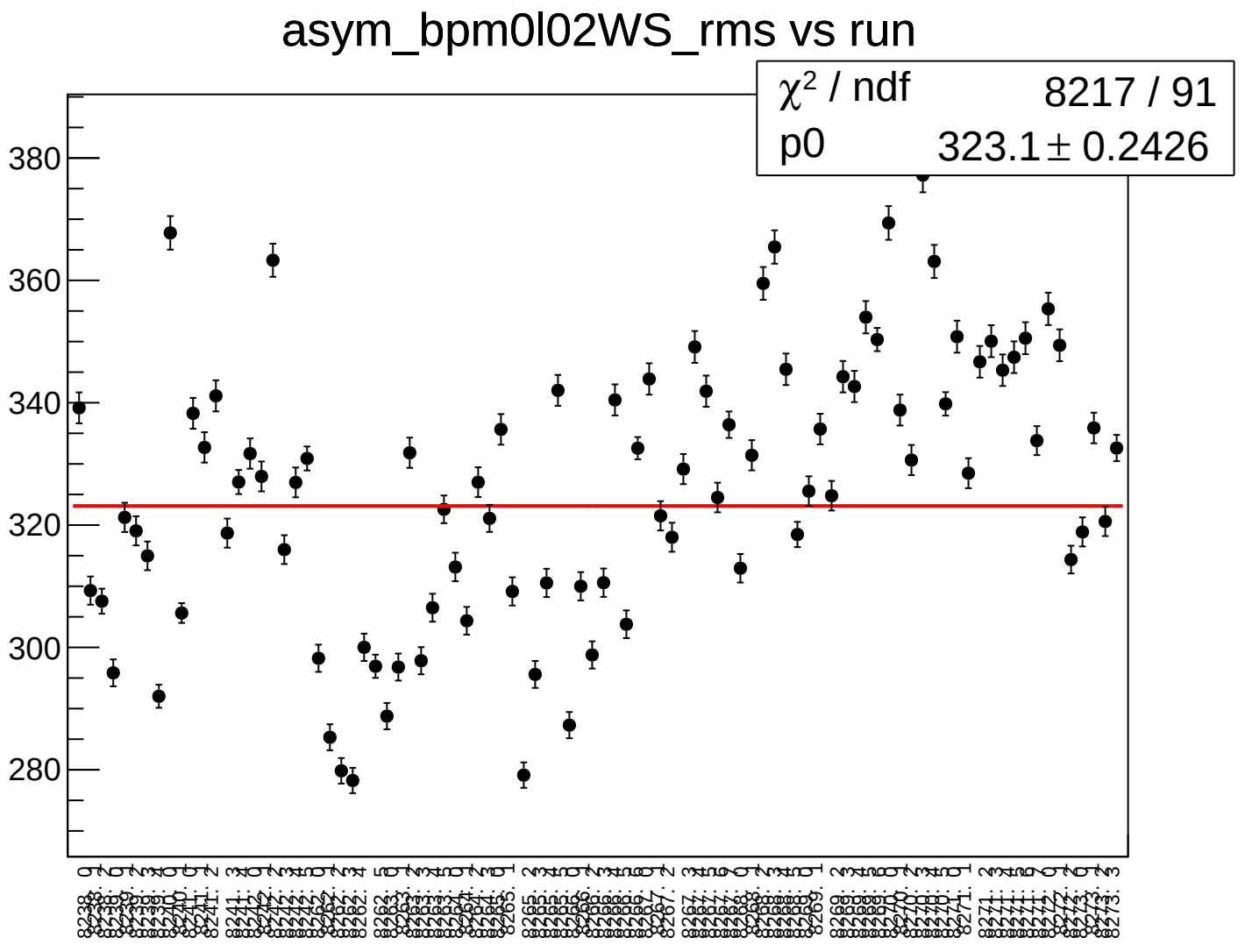

asym_bpm0l01WS_mean vs run
χ² / ndf 662.4 / 91
p0 −3033 ± 268.8
pull
Entries 92
Mean 316.8
Std Dev 0

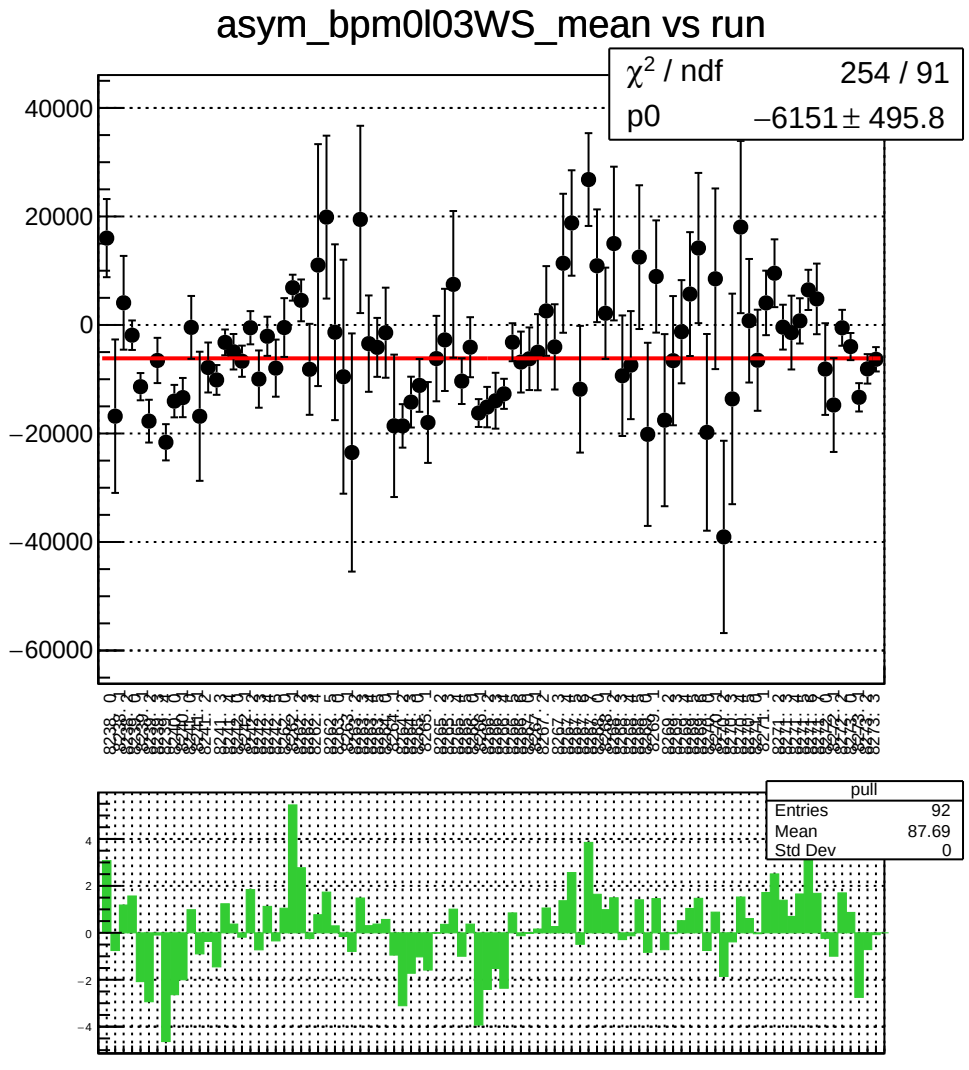

pull1D
Entries 92
Mean 0.08477
Std Dev 2.682

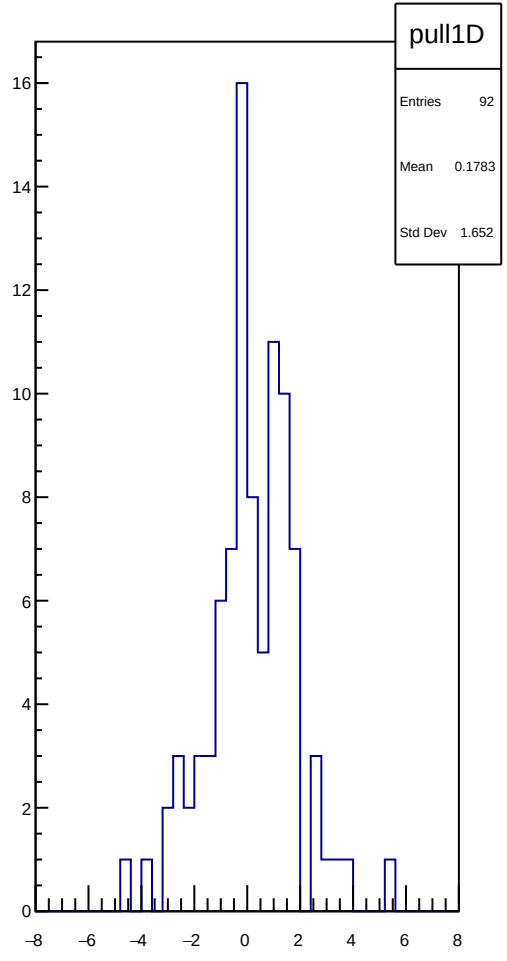

asym_bpm0l01WS_rms vs run
χ² / ndf 6167 / 91
p0 253.3 ± 0.19
310
300
290
280
270
260
250
240
230
220

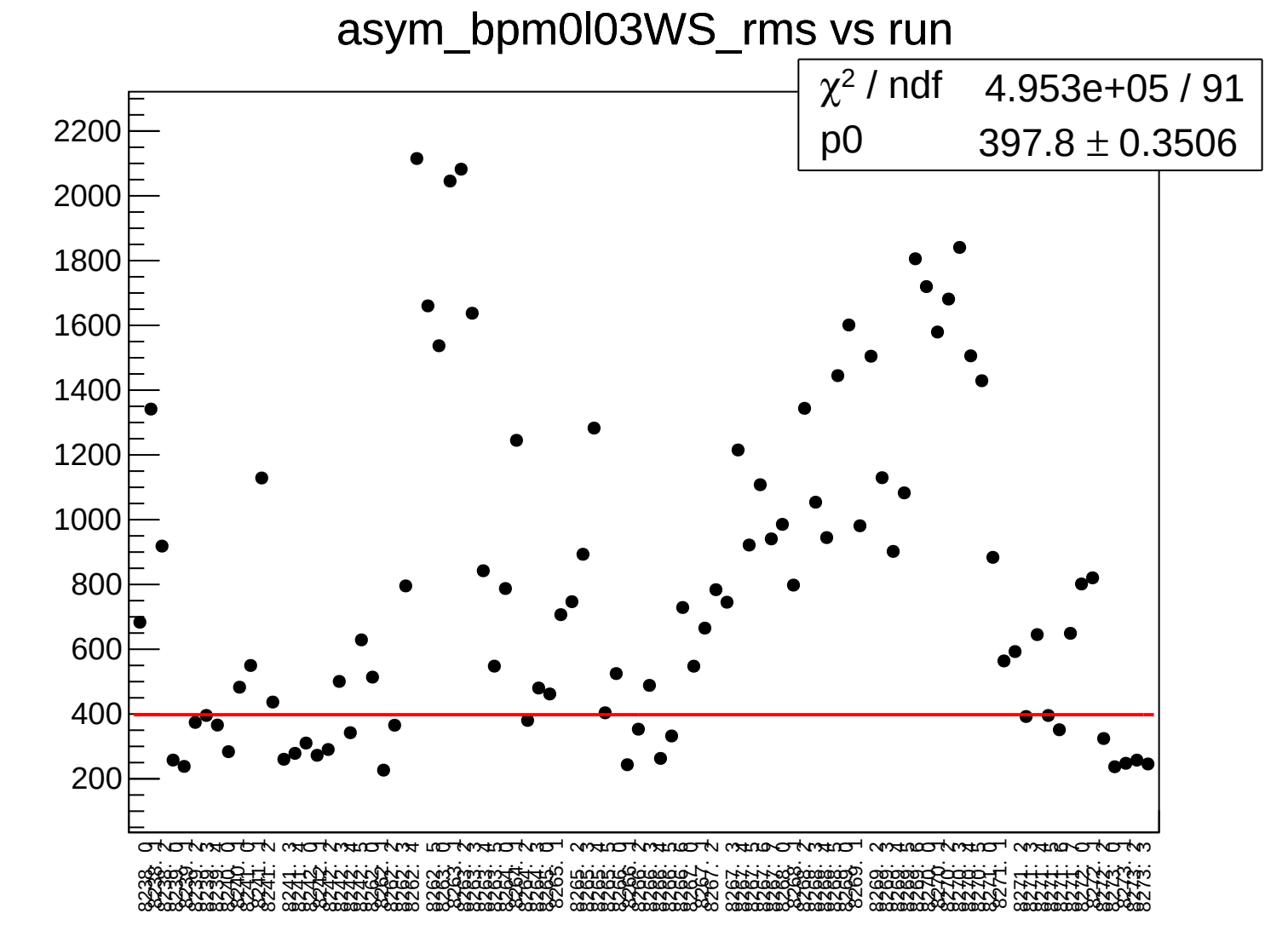

asym_bpm0l02WS_mean vs run
χ² / ndf 508.8 / 91
p0 −2432 ± 343
pull
Entries 92
Mean 733
Std Dev 0

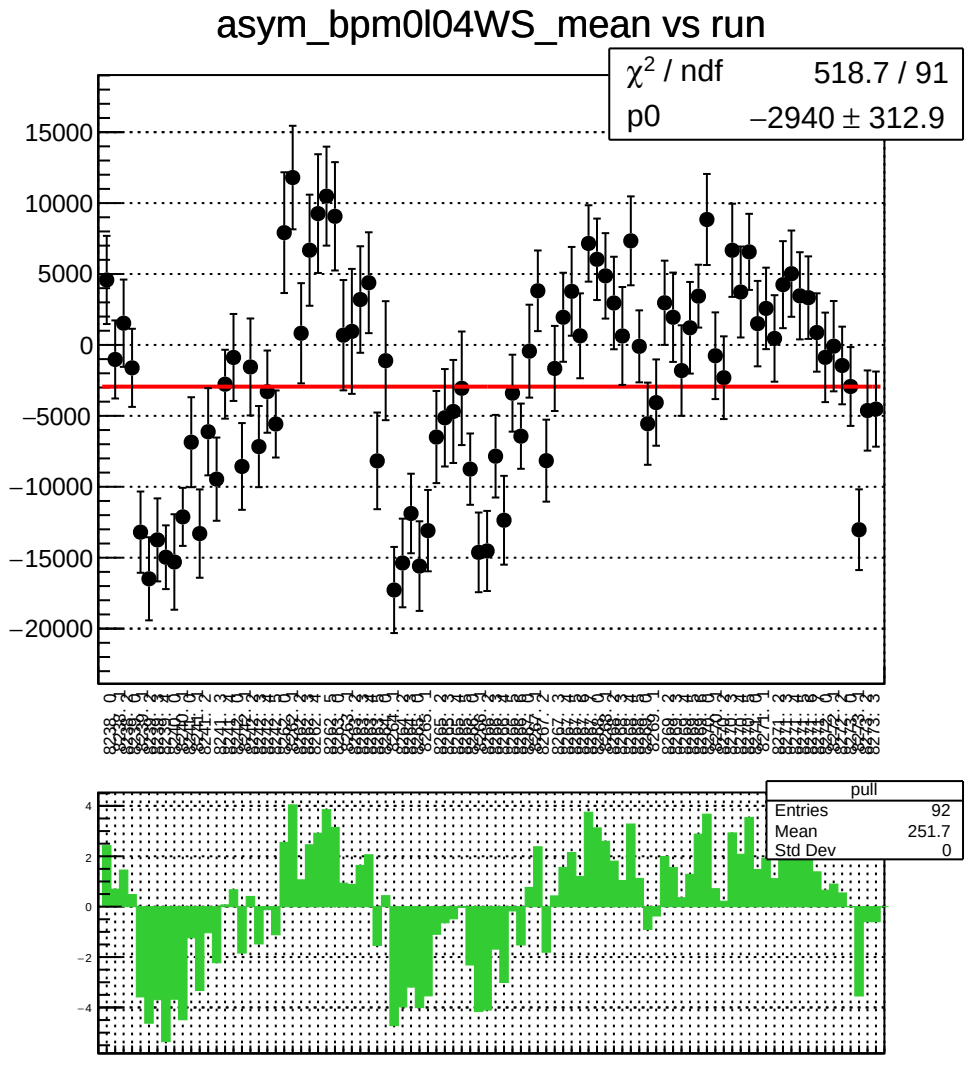

pull1D
Entries 92
Mean 0.02399
Std Dev 2.352

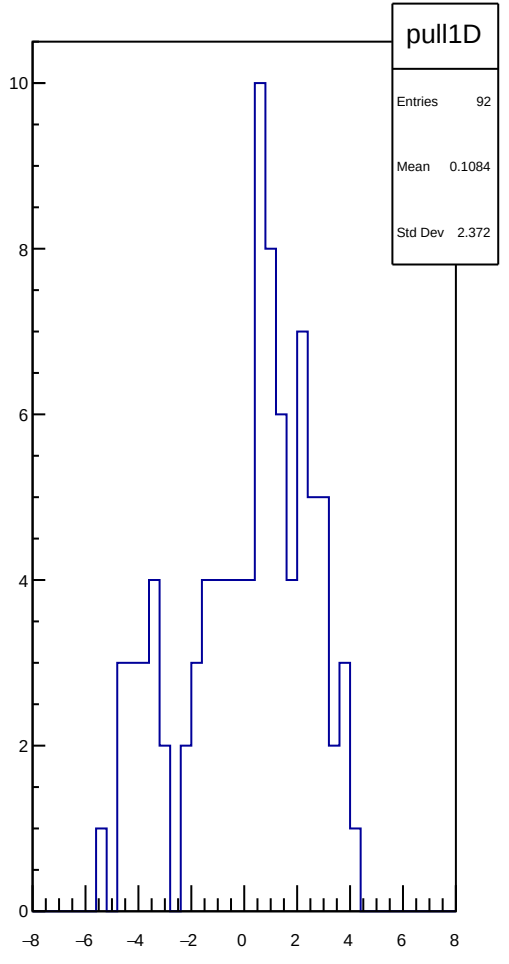

asym_bpm0l02WS_rms vs run
χ² / ndf 8217 / 91
p0 323.1 ± 0.2426
380
360
340
320
300
280

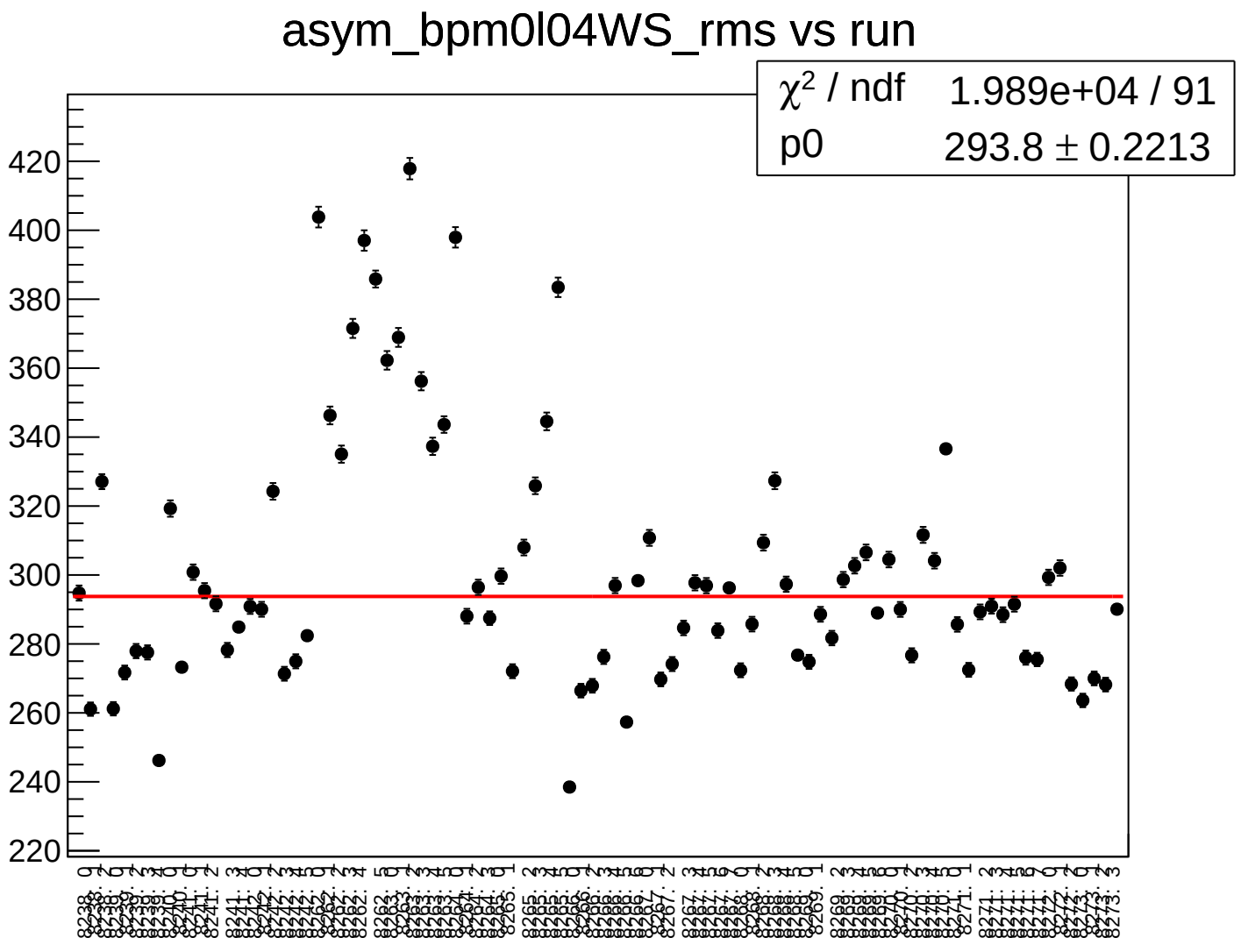

asym_bpm0l03WS_mean vs run
χ² / ndf 254 / 91
p0 −6151 ± 495.8
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 87.69
Std Dev 0
4
2
0
−2
−4

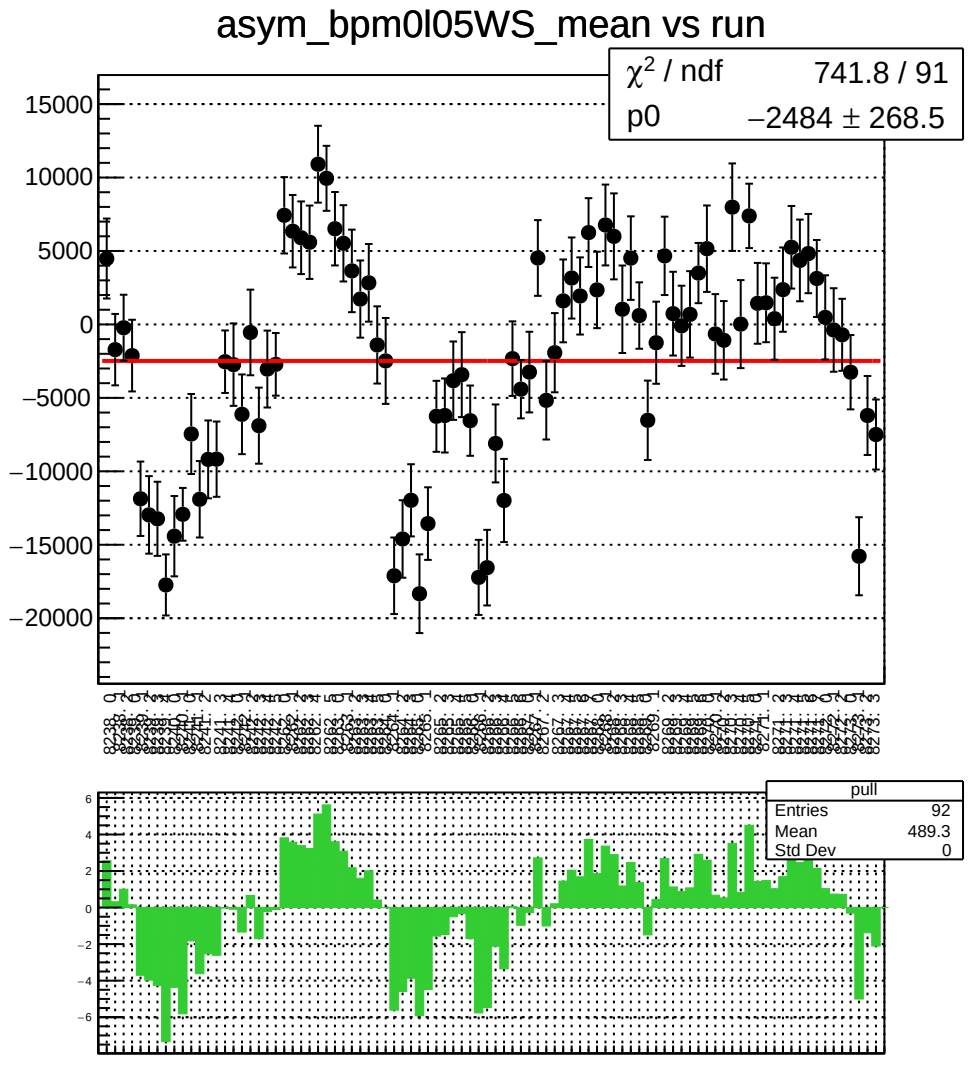

pull1D
Entries 92
Mean 0.1783
Std Dev 1.652
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

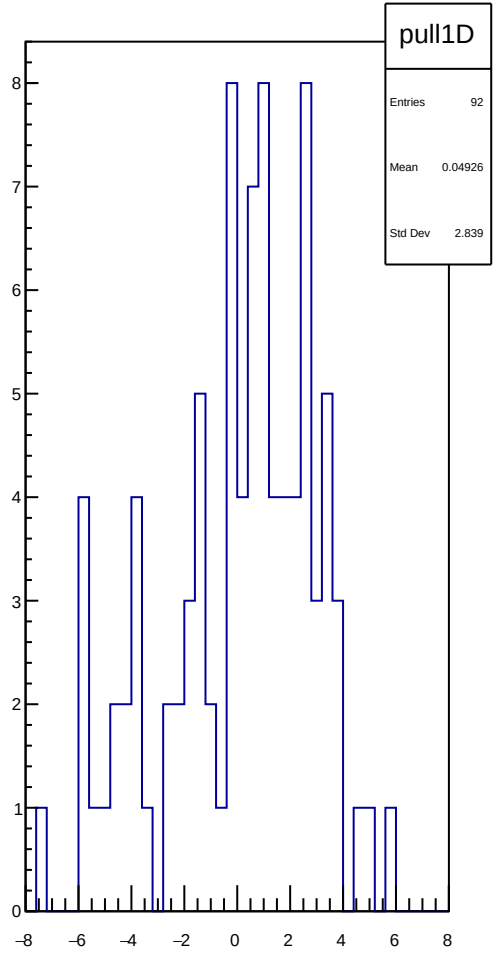

asym_bpm0l03WS_rms vs run
$\chi^2$ / ndf 4.953e+05 / 91
p0 397.8 ± 0.3506
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

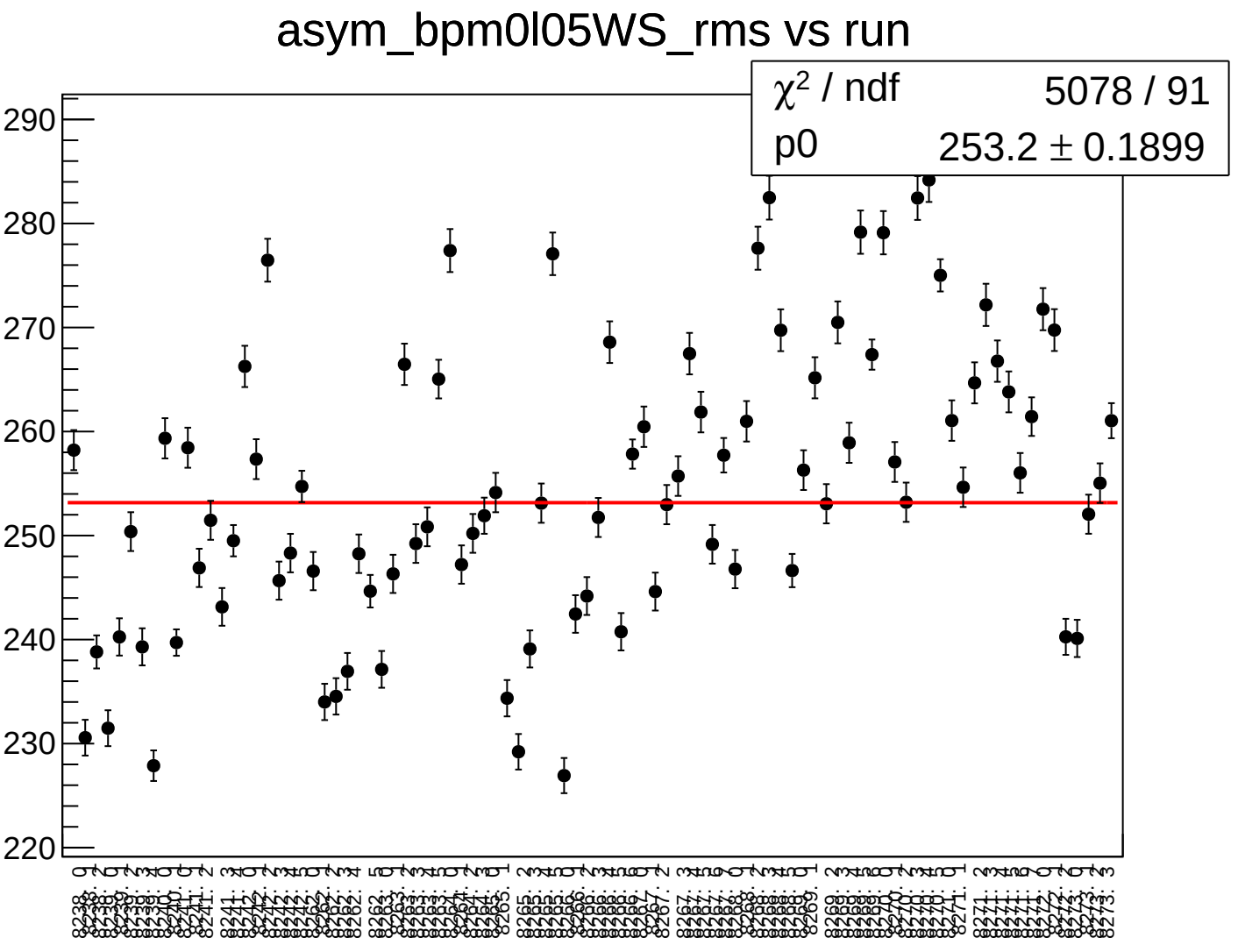

asym_bpm0l04WS_mean vs run
χ² / ndf 518.7 / 91
p0 −2940 ± 312.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean 251.7
Std Dev 0
4
2
0
−2
−4

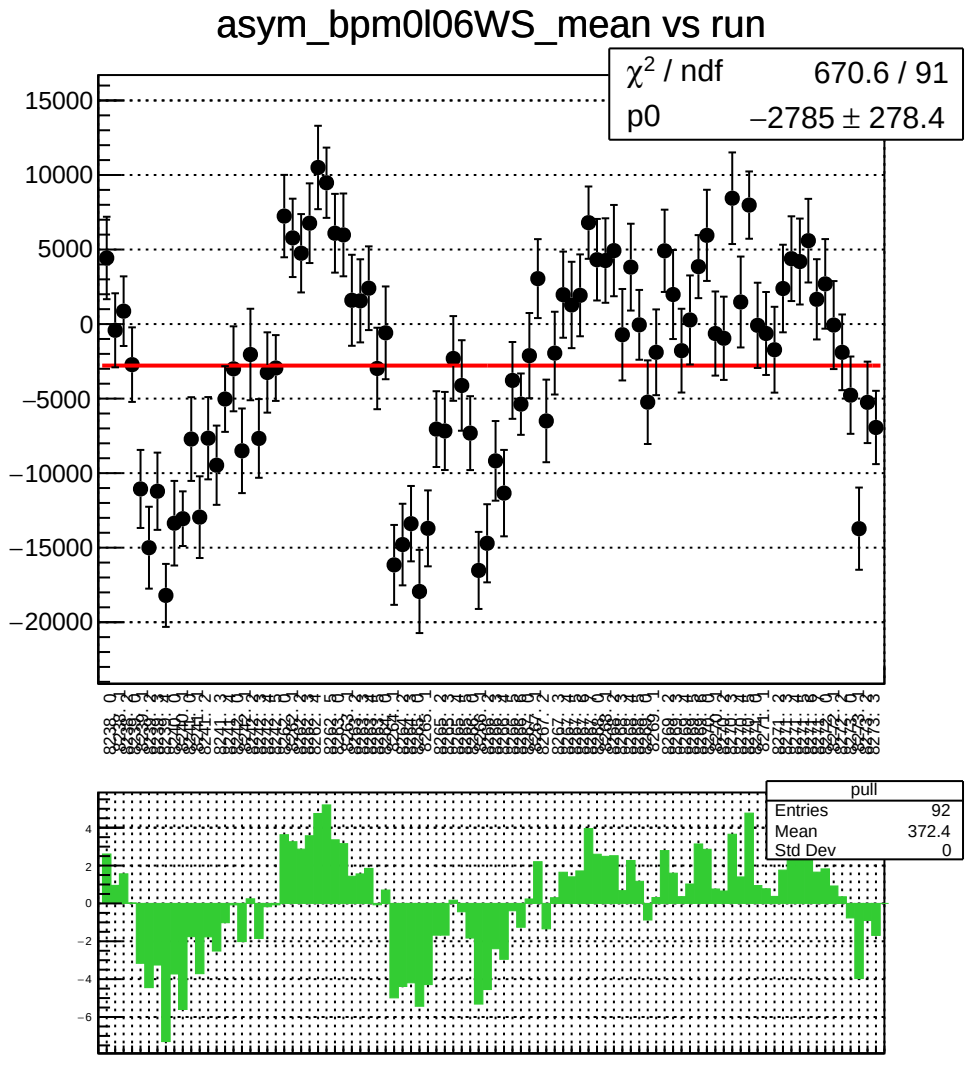

pull1D
Entries 92
Mean 0.1084
Std Dev 2.372
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

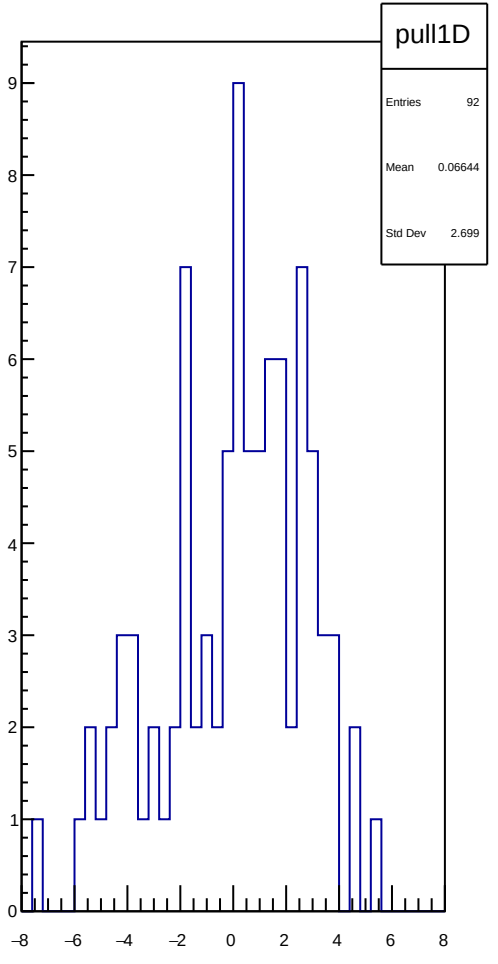

asym_bpm0l04WS_rms vs run
$\chi^2$ / ndf 1.989e+04 / 91
p0 293.8 ± 0.2213
420
400
380
360
340
320
300
280
260
240
220

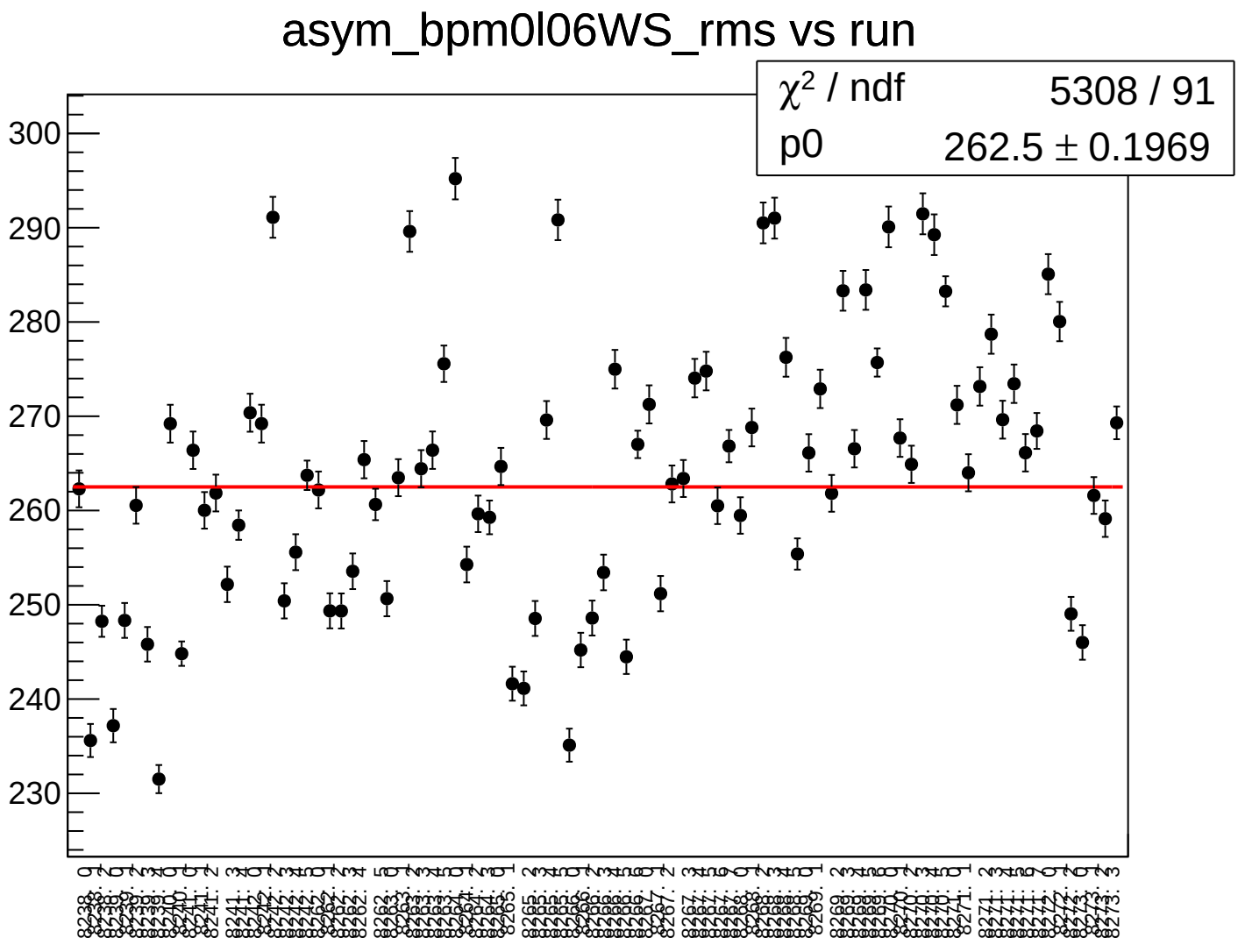

asym_bpm0l05WS_mean vs run
χ² / ndf 741.8 / 91
p0 −2484 ± 268.5
pull
Entries 92
Mean 489.3
Std Dev 0

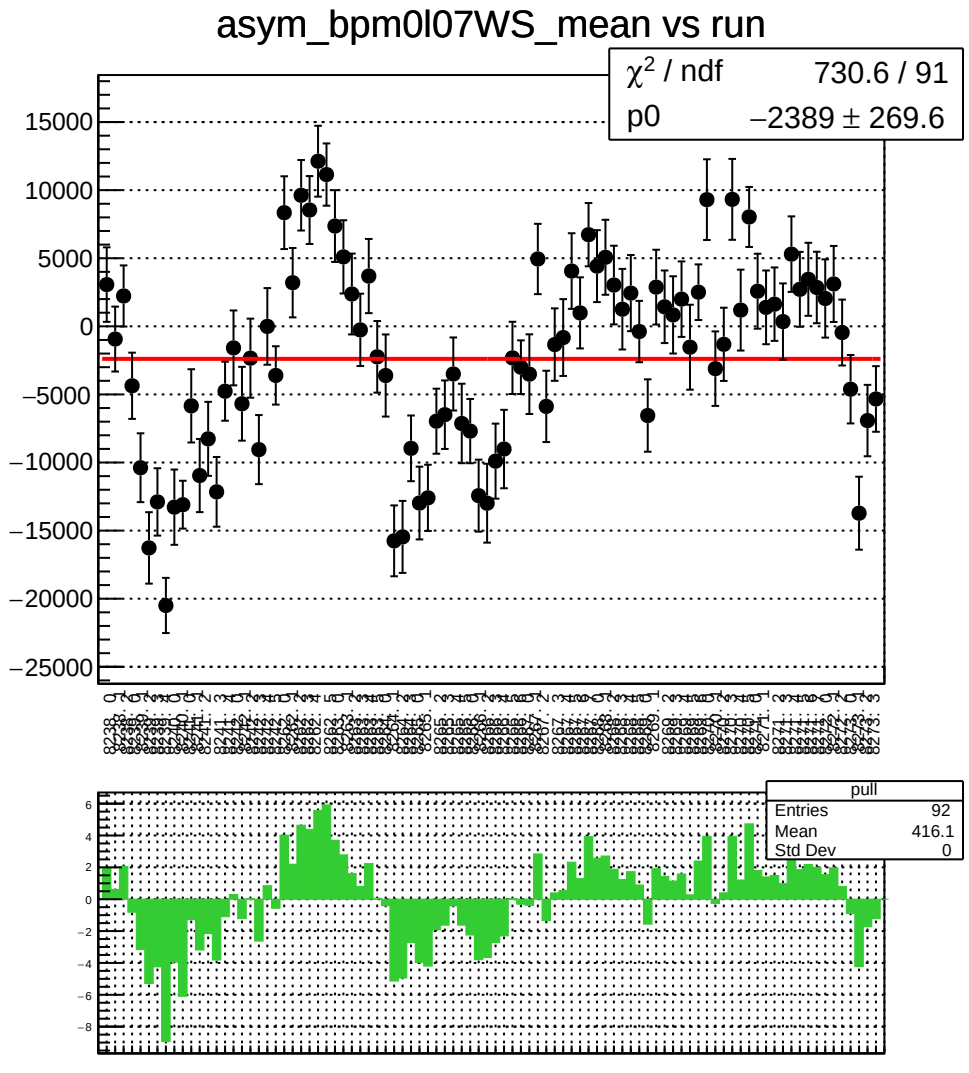

pull1D
Entries 92
Mean 0.04926
Std Dev 2.839

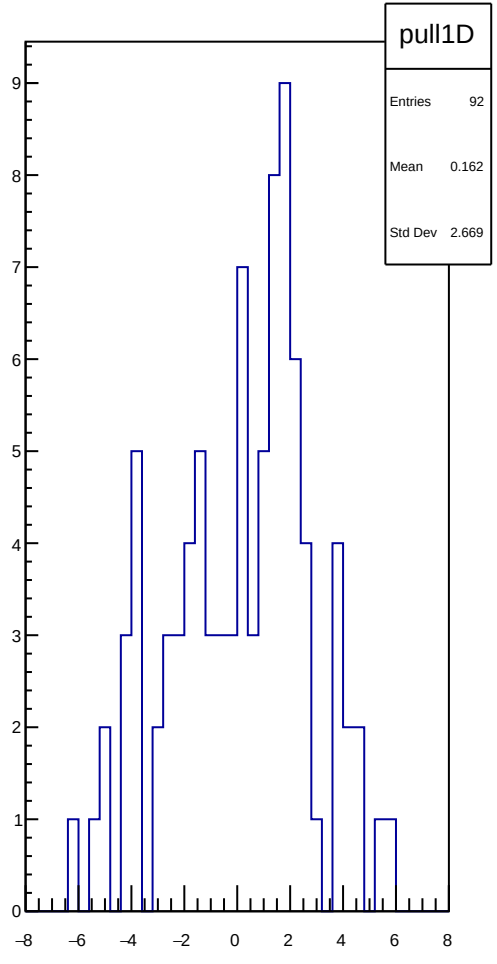

asym_bpm0l05WS_rms vs run
$\chi^2$ / ndf 5078 / 91
p0 253.2 ± 0.1899
290
280
270
260
250
240
230
220

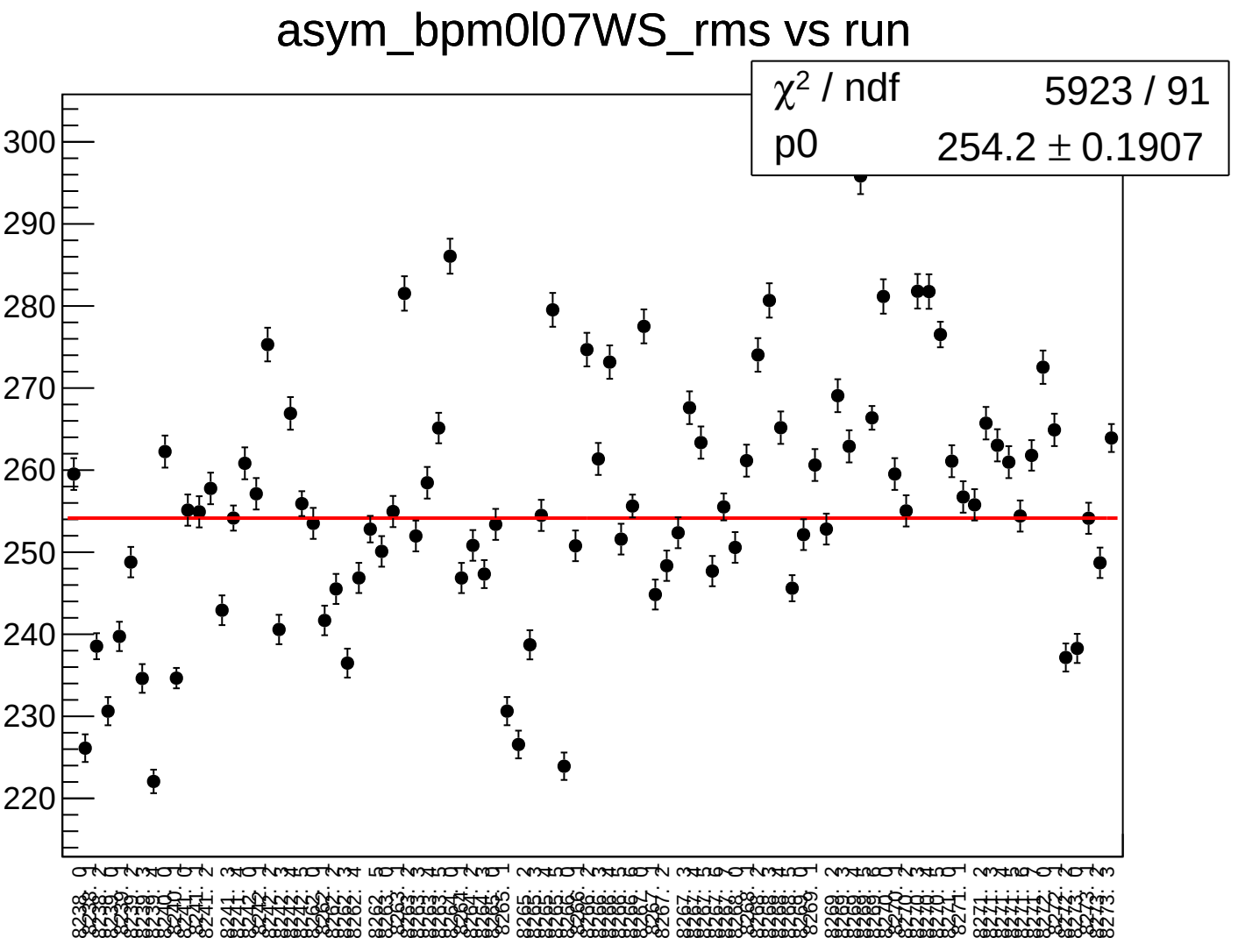

asym_bpm0l06WS_mean vs run
χ² / ndf 670.6 / 91
p0 −2785 ± 278.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean 372.4
Std Dev 0
4
2
0
−2
−4
−6

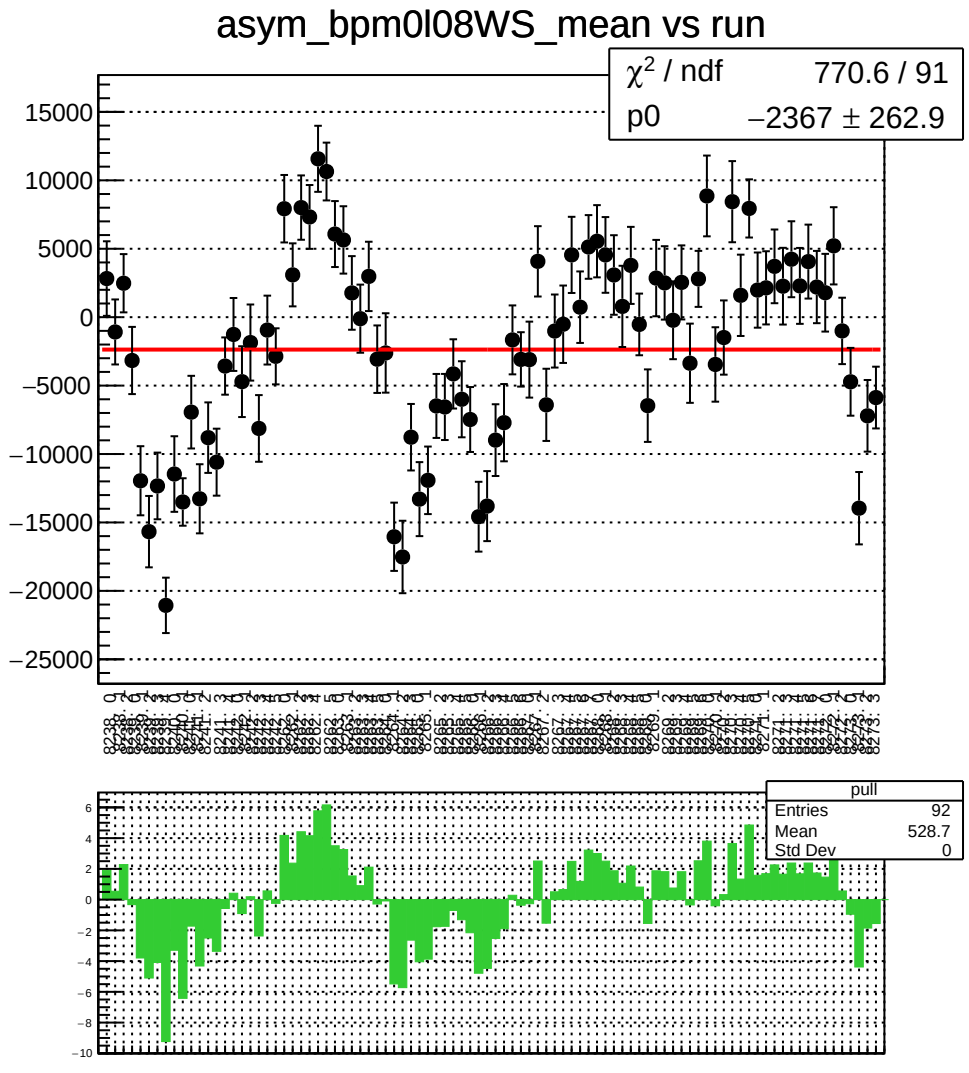

pull1D
Entries 92
Mean 0.06644
Std Dev 2.699
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

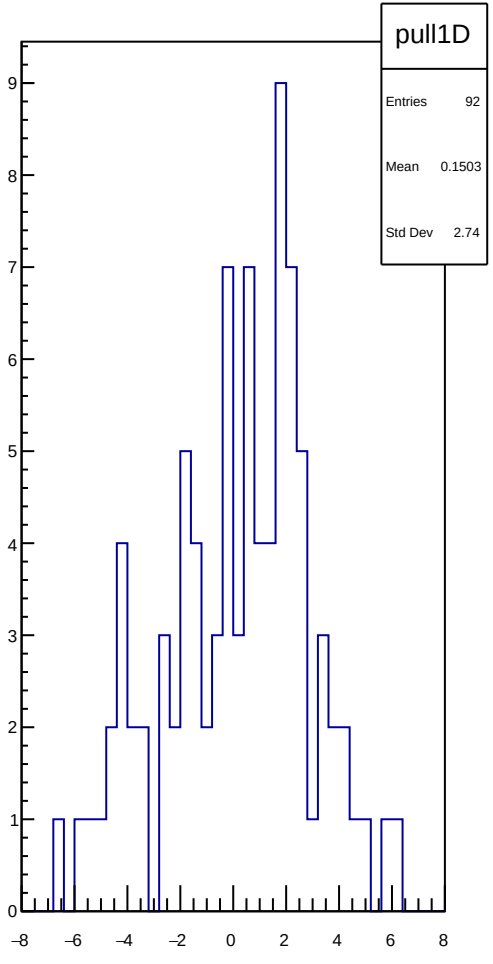

asym_bpm0l06WS_rms vs run
χ² / ndf 5308 / 91
p0 262.5 ± 0.1969
300
290
280
270
260
250
240
230

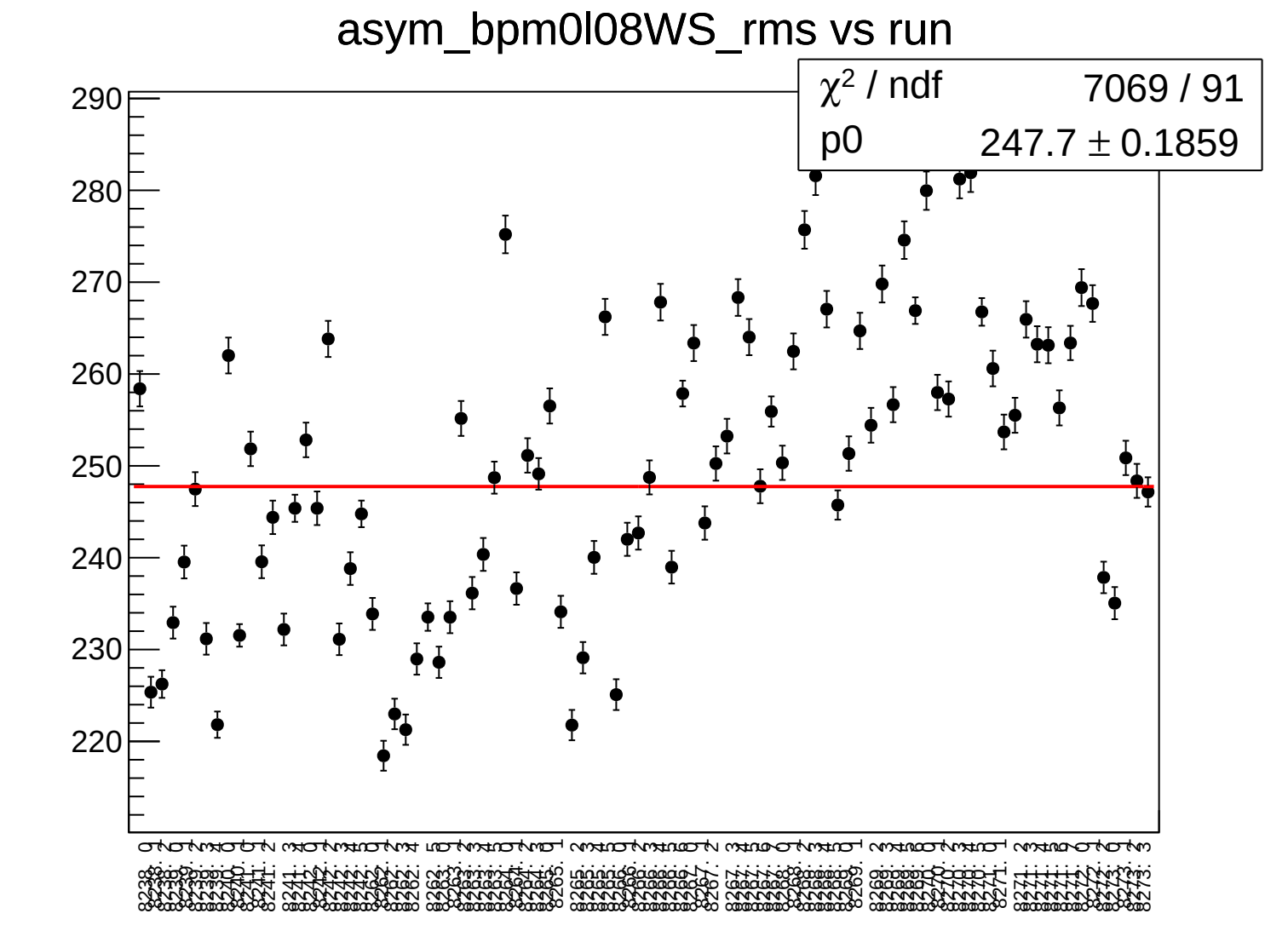

asym_bpm0l07WS_mean vs run
χ² / ndf 730.6 / 91
p0 −2389 ± 269.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 92
Mean 416.1
Std Dev 0
6
4
2
0
−2
−4
−6
−8

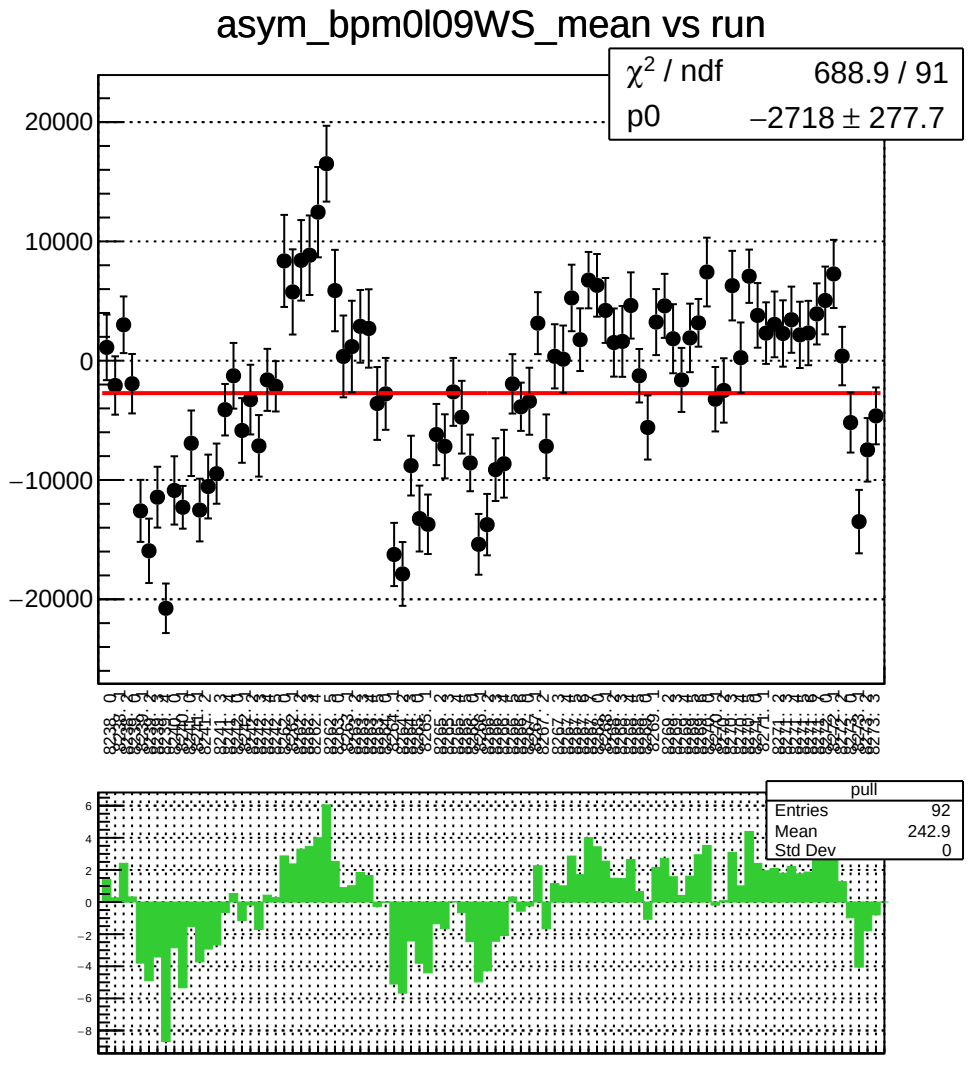

pull1D
Entries 92
Mean 0.162
Std Dev 2.669
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

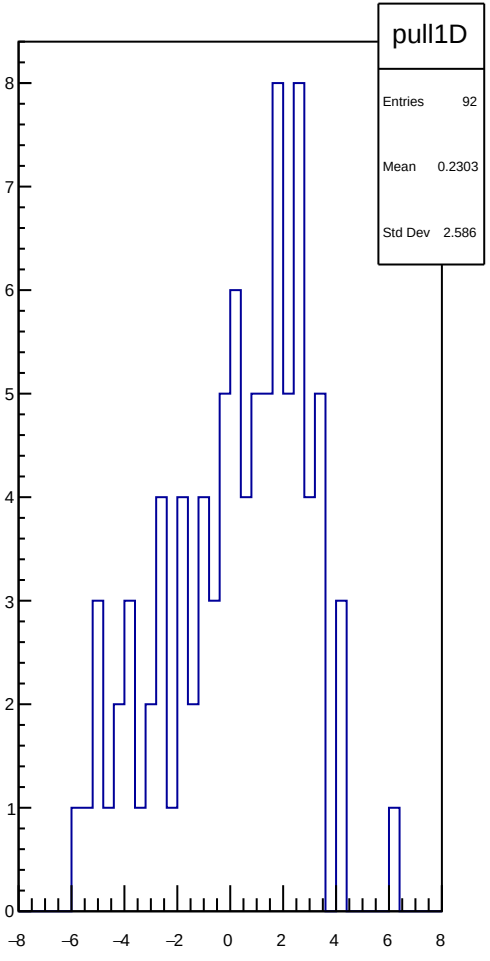

asym_bpm0l07WS_rms vs run
χ² / ndf 5923 / 91
p0 254.2 ± 0.1907
300
290
280
270
260
250
240
230
220

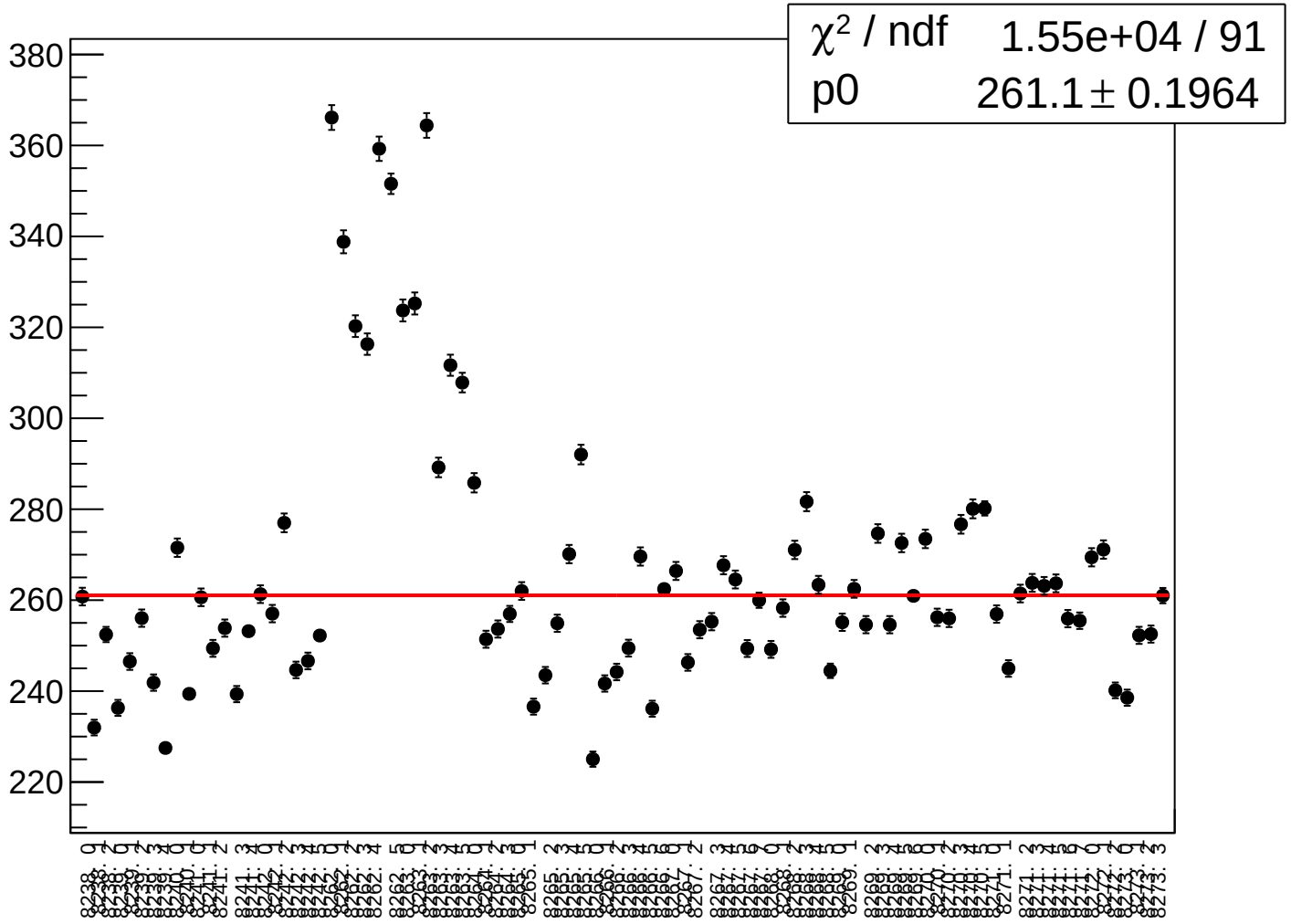

asym_bpm0l08WS_mean vs run
χ² / ndf 770.6 / 91
p0 −2367 ± 262.9
pull
Entries 92
Mean 528.7
Std Dev 0

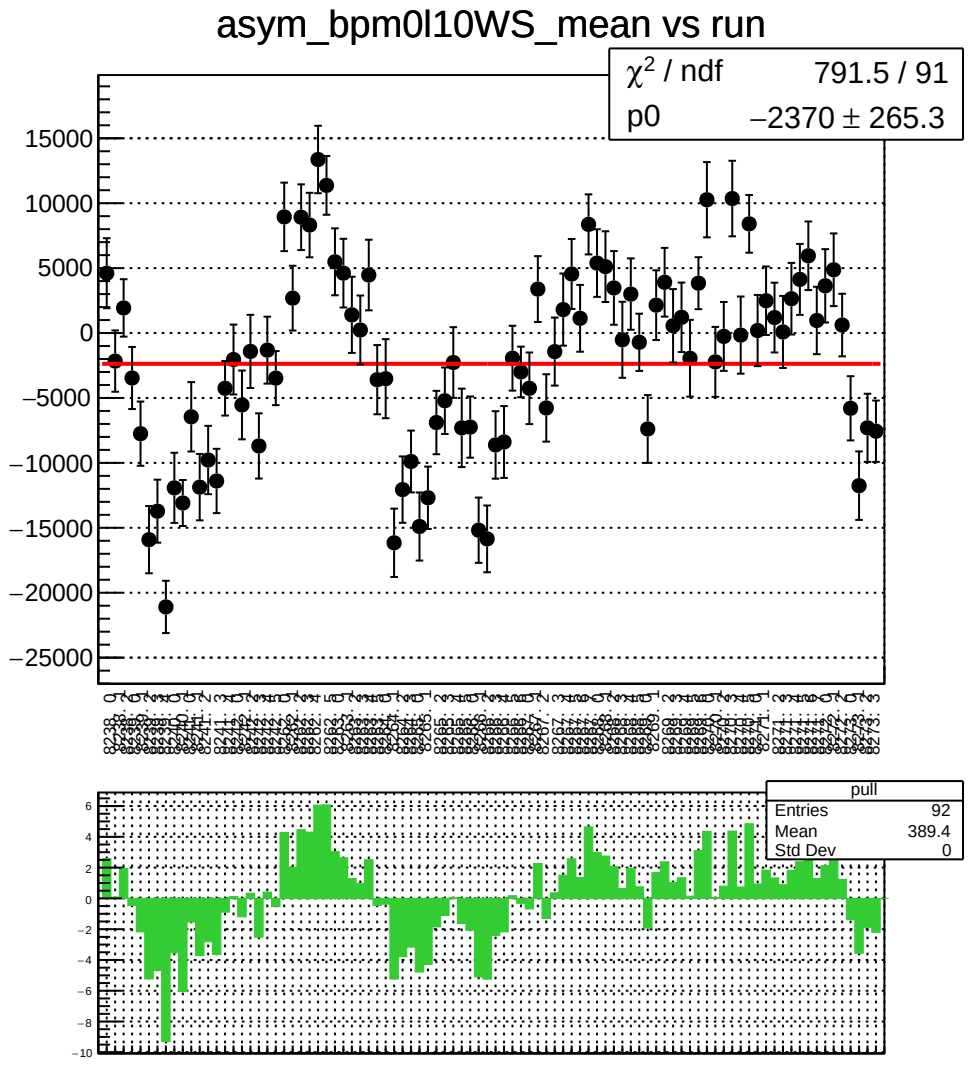

pull1D
Entries 92
Mean 0.1503
Std Dev 2.74

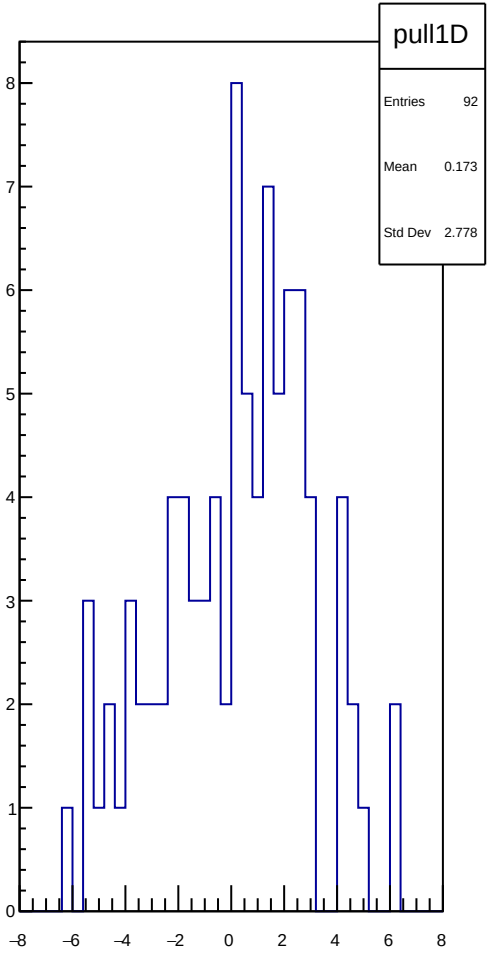

asym_bpm0l08WS_rms vs run
χ² / ndf 7069 / 91
p0 247.7 ± 0.1859
290
280
270
260
250
240
230
220

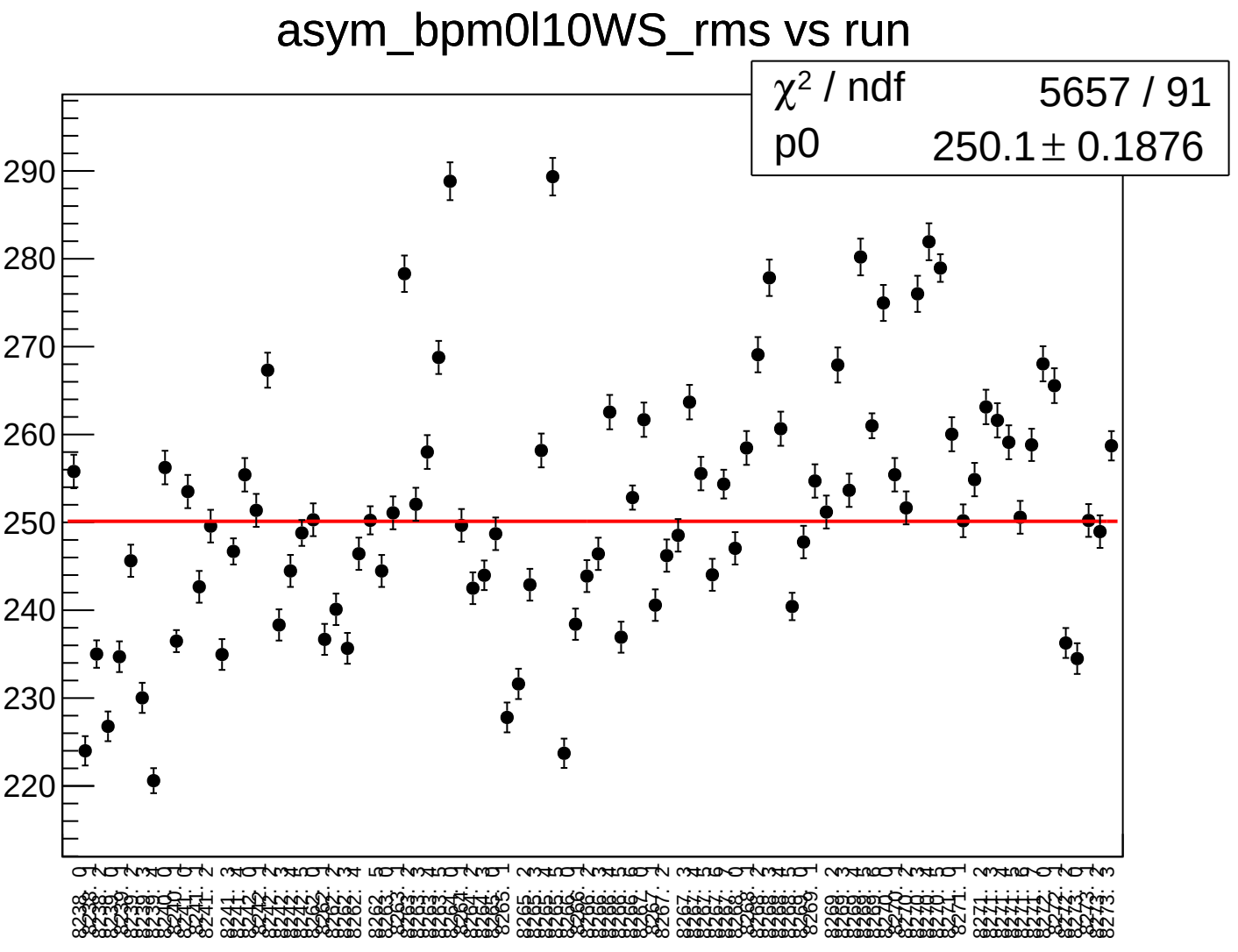

asym_bpm0l09WS_mean vs run
χ² / ndf 688.9 / 91
p0 −2718 ± 277.7
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 242.9
Std Dev 0
6
4
2
0
−2
−4
−6
−8

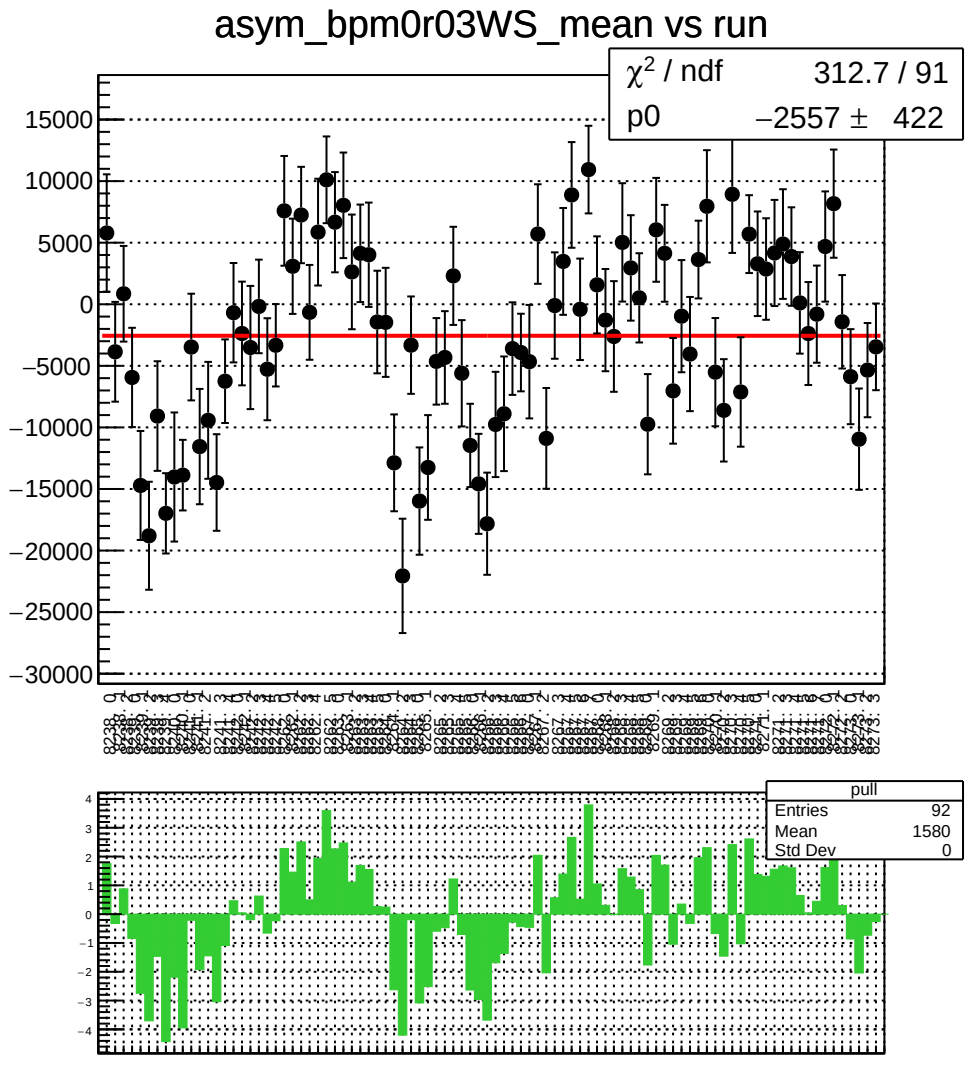

pull1D
Entries 92
Mean 0.2303
Std Dev 2.586
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

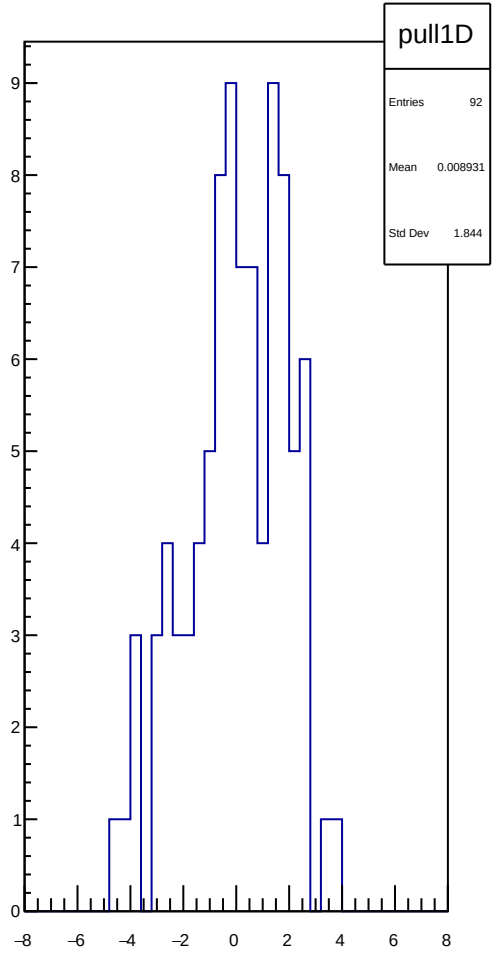

asym_bpm0l09WS_rms vs run
χ² / ndf 1.55e+04 / 91
p0 261.1 ± 0.1964
380
360
340
320
300
280
260
240
220

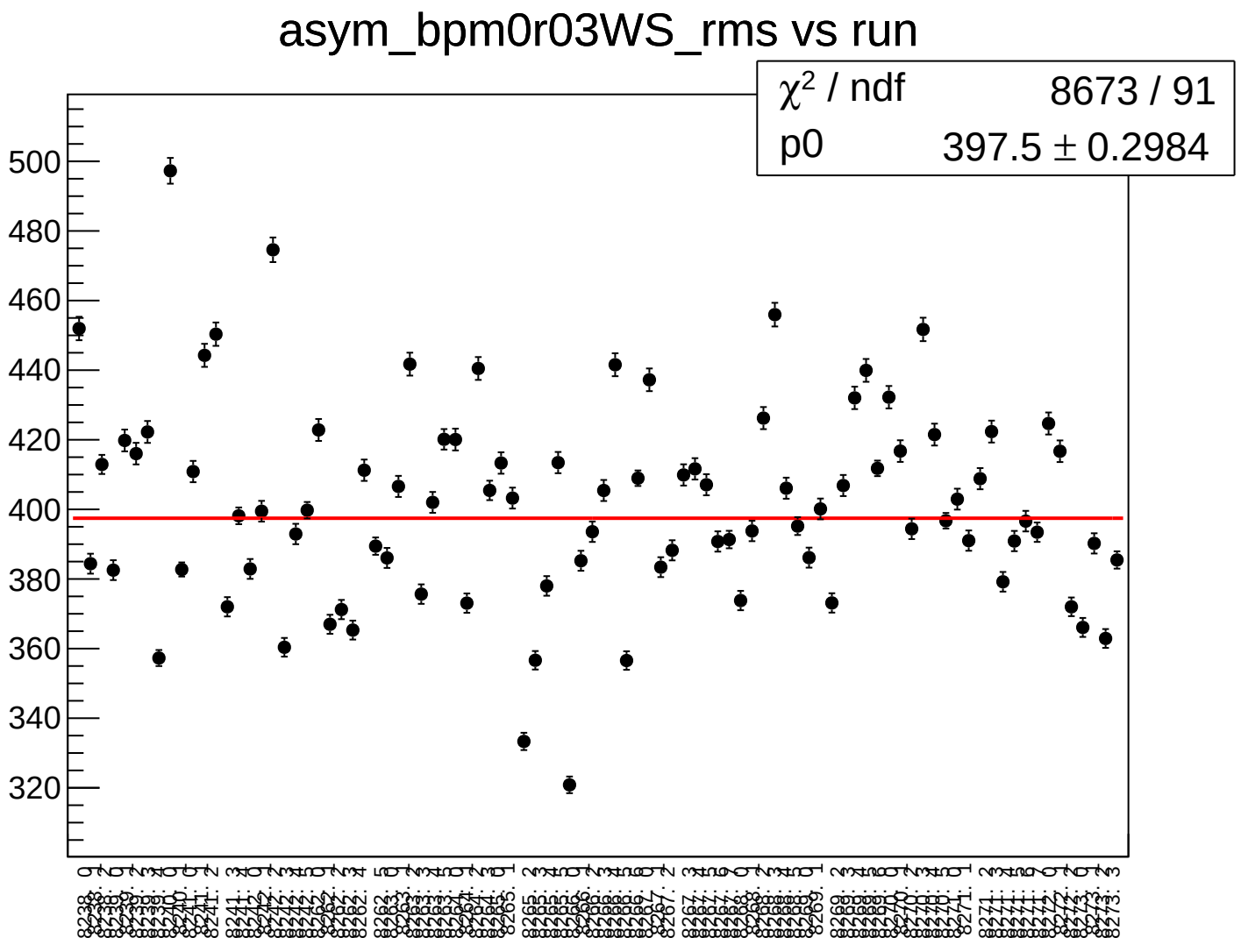

asym_bpm0l10WS_mean vs run
χ² / ndf 791.5 / 91
p0 −2370 ± 265.3
pull
Entries 92
Mean 389.4
Std Dev 0

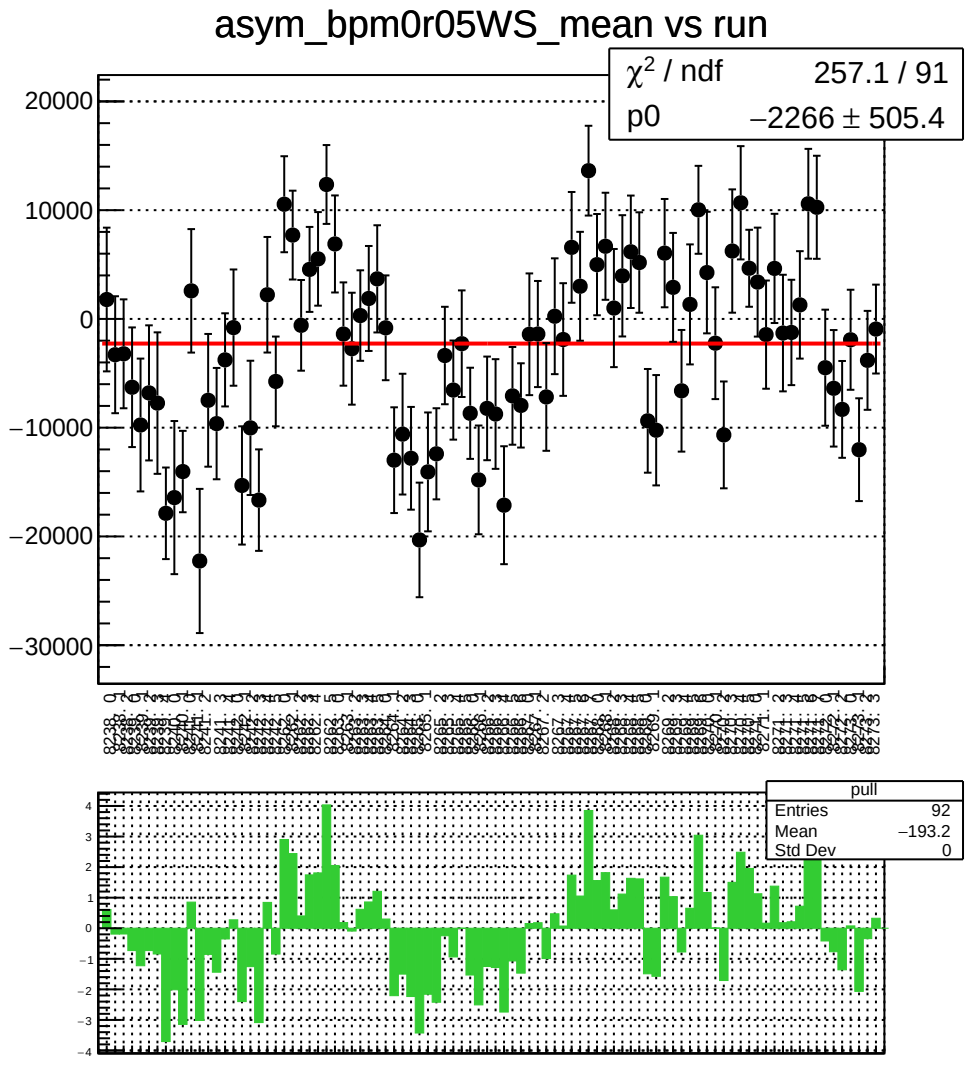

pull1D
Entries 92
Mean 0.173
Std Dev 2.778

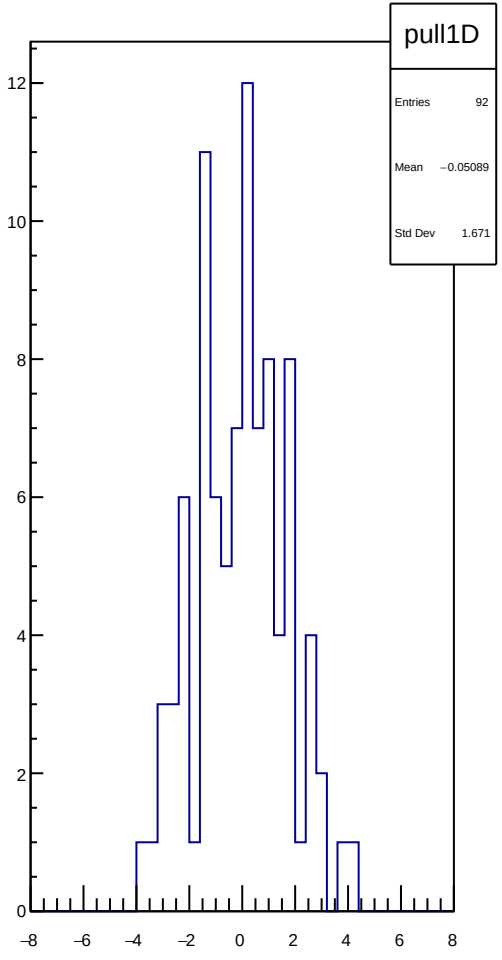

asym_bpm0l10WS_rms vs run
χ² / ndf 5657 / 91
p0 250.1 ± 0.1876
290
280
270
260
250
240
230
220

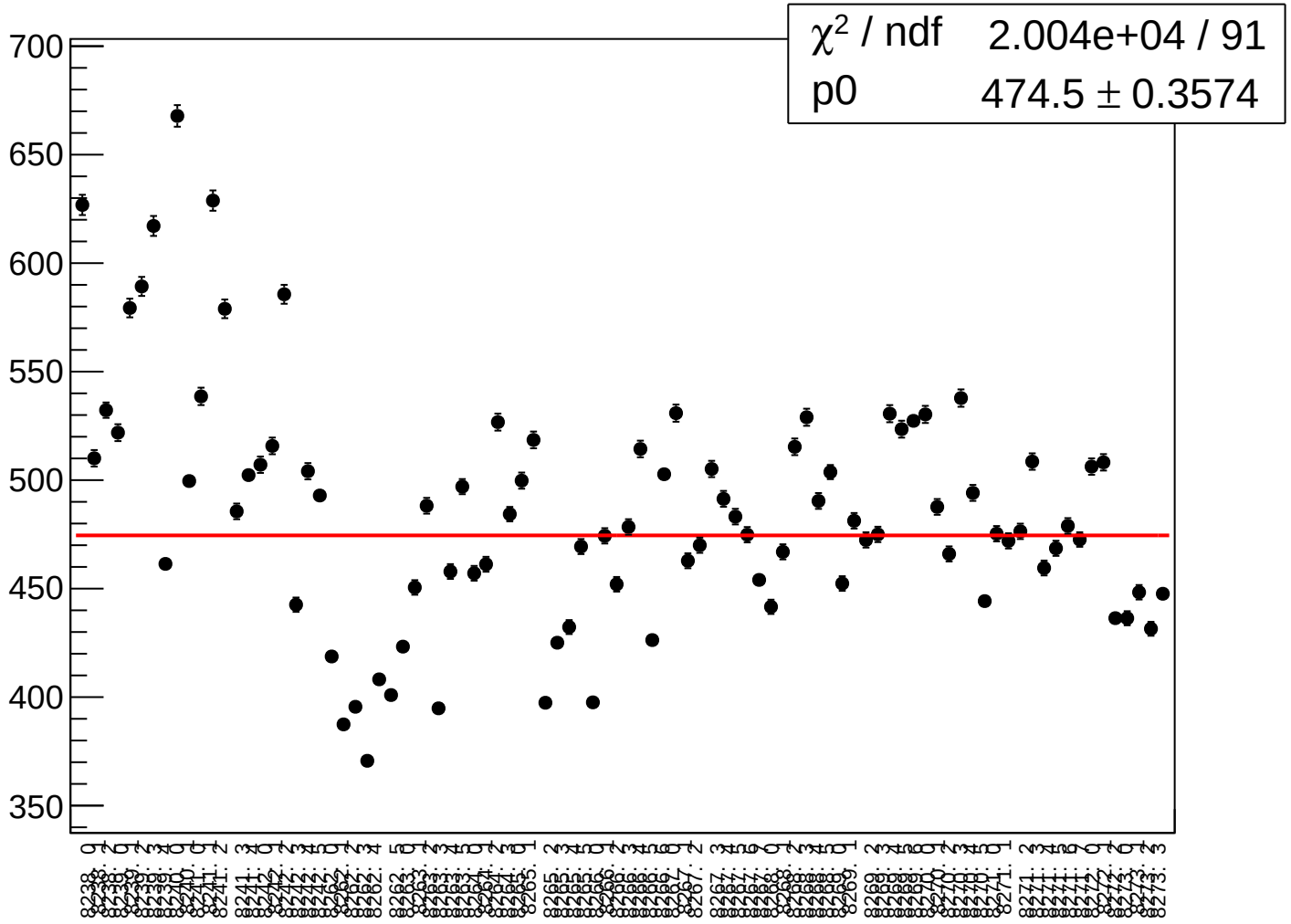

asym_bpm0r03WS_mean vs run
χ² / ndf 312.7 / 91
p0 −2557 ± 422
pull
Entries 92
Mean 1580
Std Dev 0

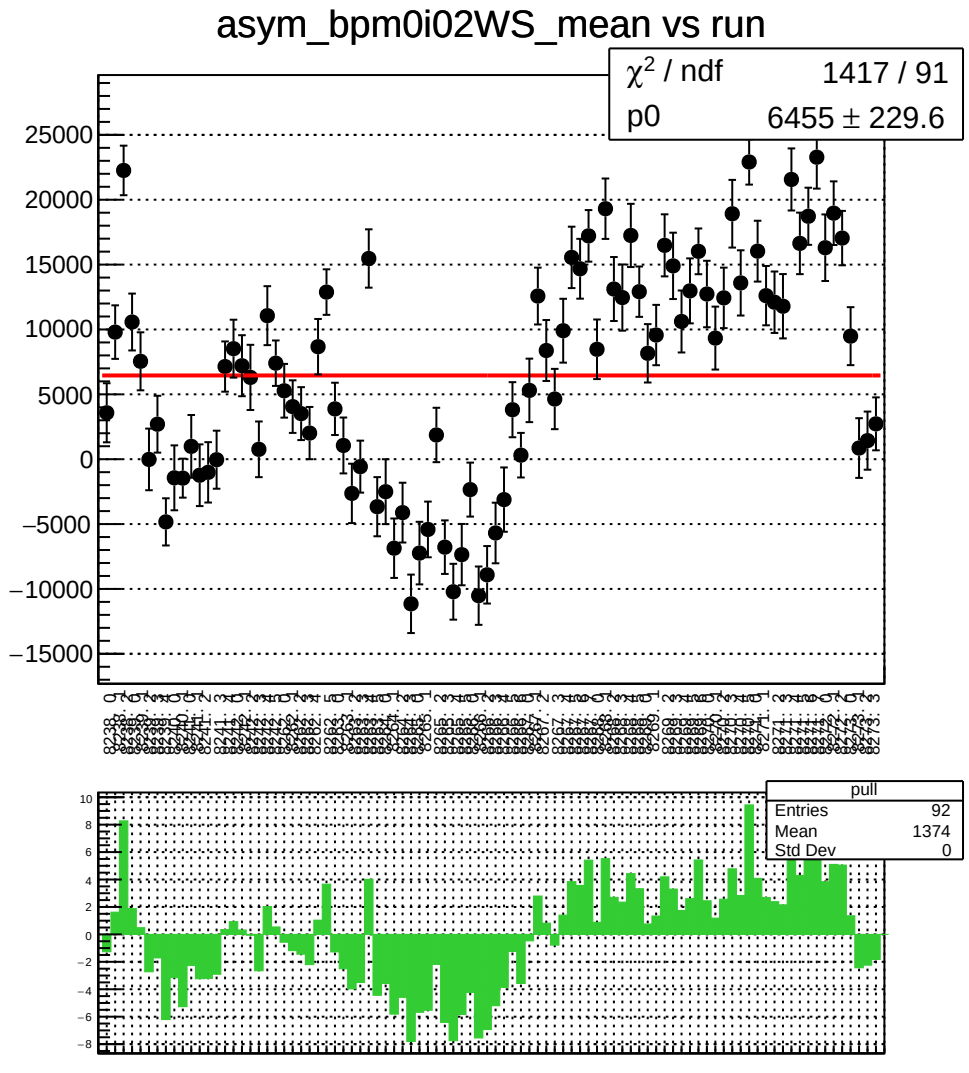

pull1D
Entries 92
Mean 0.008931
Std Dev 1.844

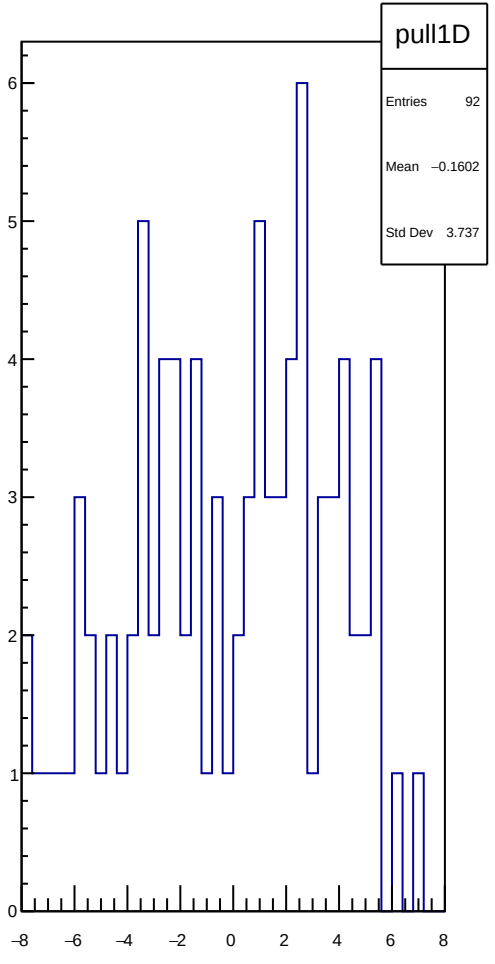

asym_bpm0r03WS_rms vs run
χ² / ndf 8673 / 91
p0 397.5 ± 0.2984
500
480
460
440
420
400
380
360
340
320

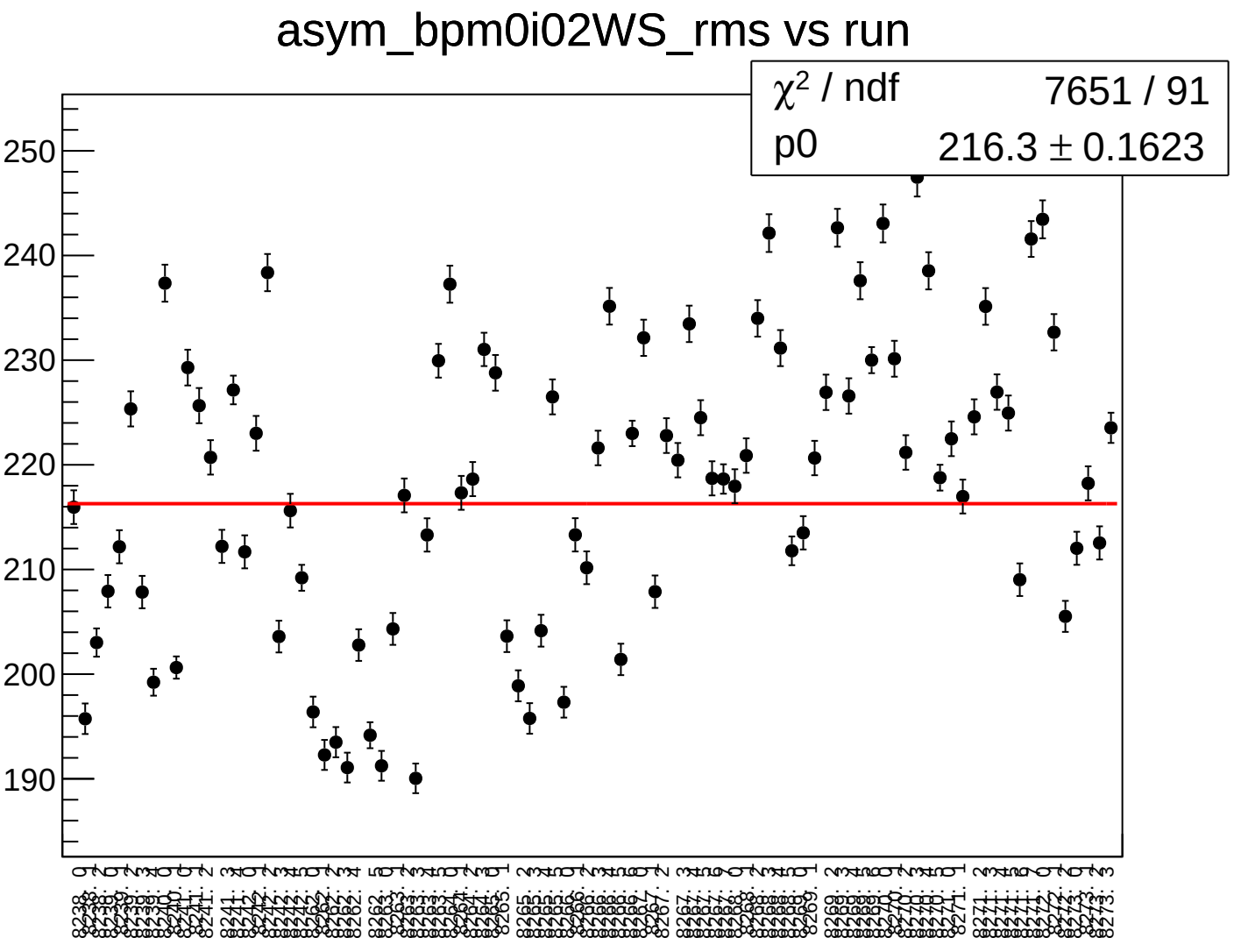

asym_bpm0r05WS_mean vs run
χ² / ndf 257.1 / 91
p0 −2266 ± 505.4
pull
Entries 92
Mean −193.2
Std Dev 0

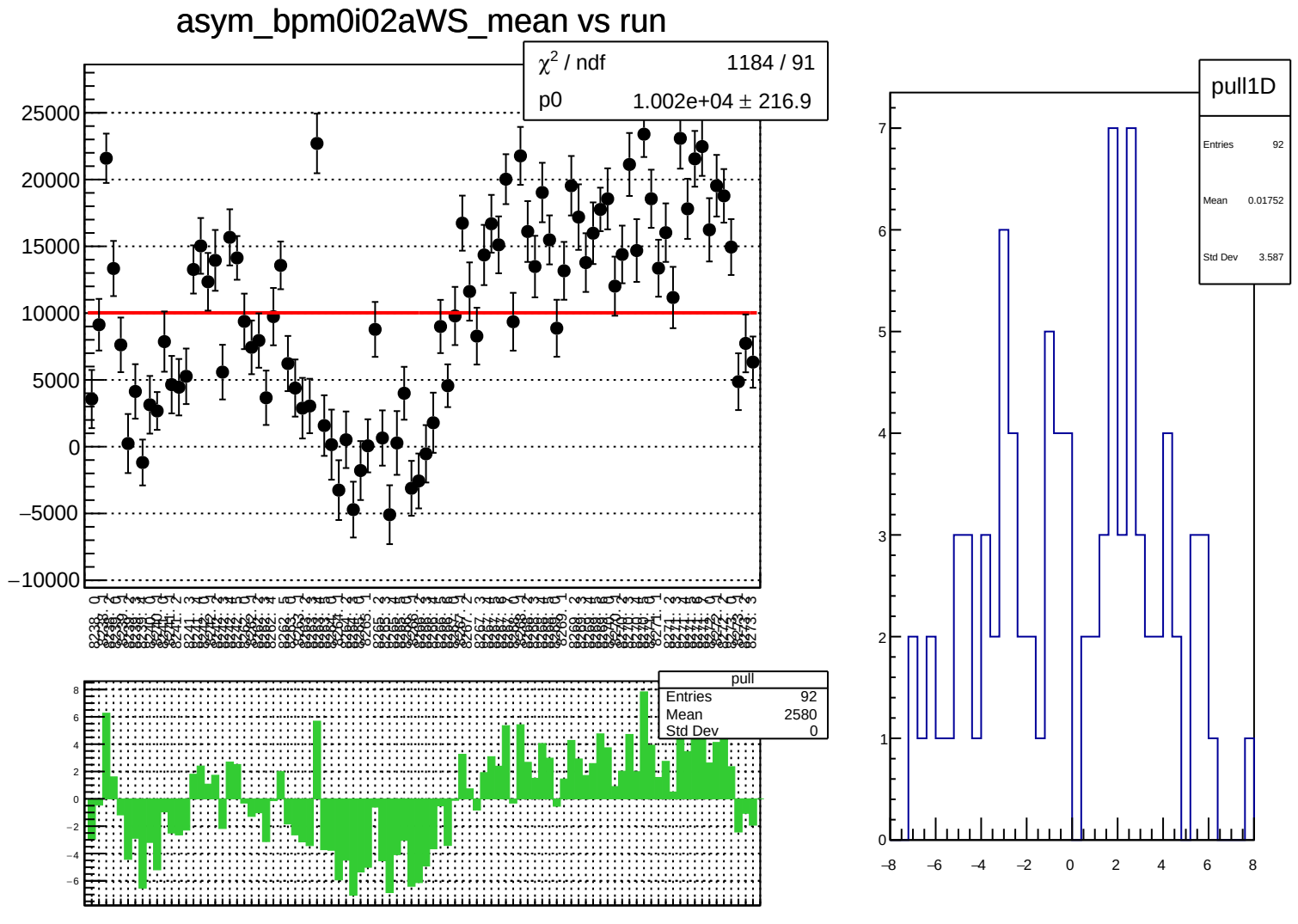

pull1D
Entries 92
Mean −0.05089
Std Dev 1.671

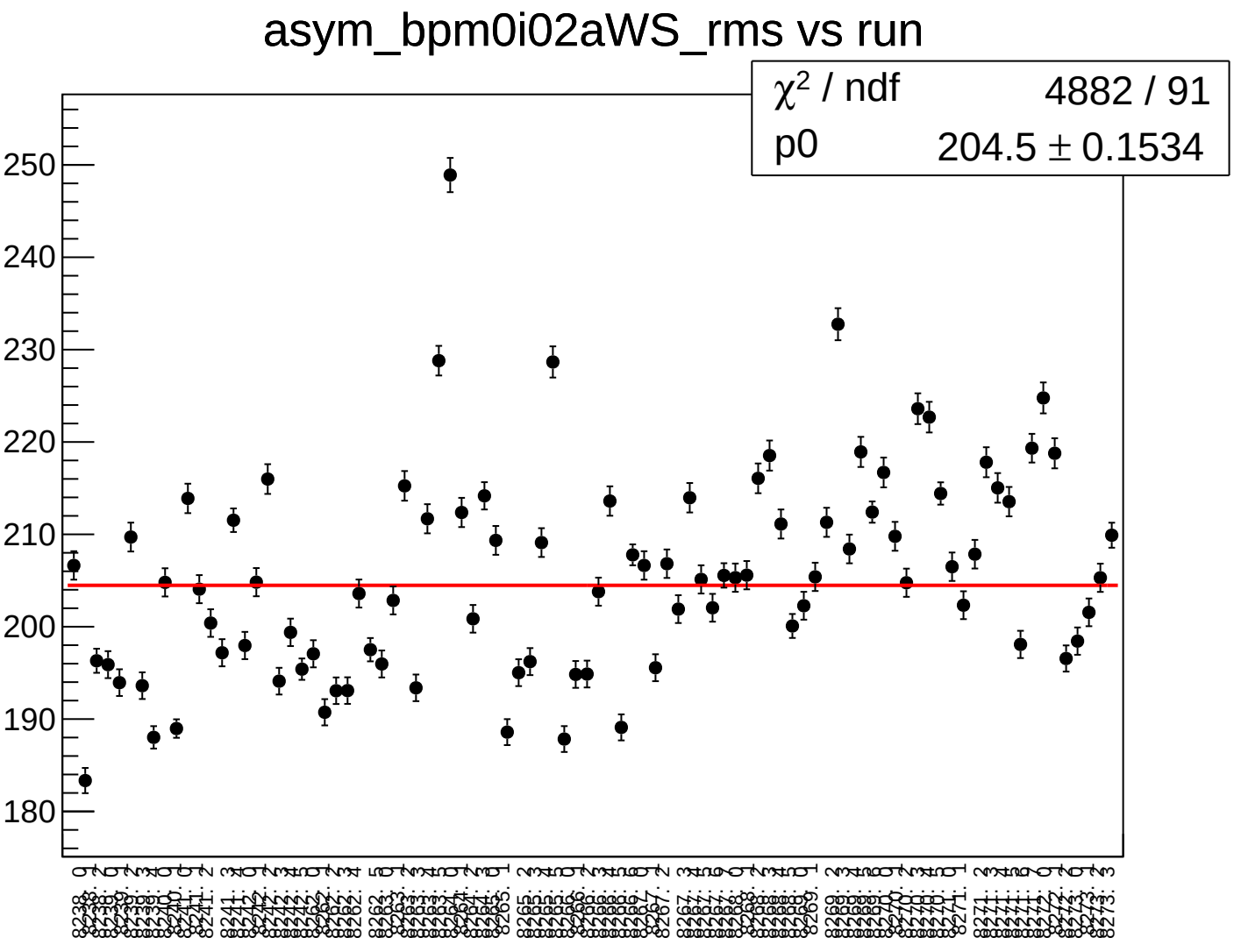

asym_bpm0r05WS_rms vs run
$\chi^2$ / ndf 2.004e+04 / 91
p0 474.5 ± 0.3574
700
650
600
550
500
450
400
350

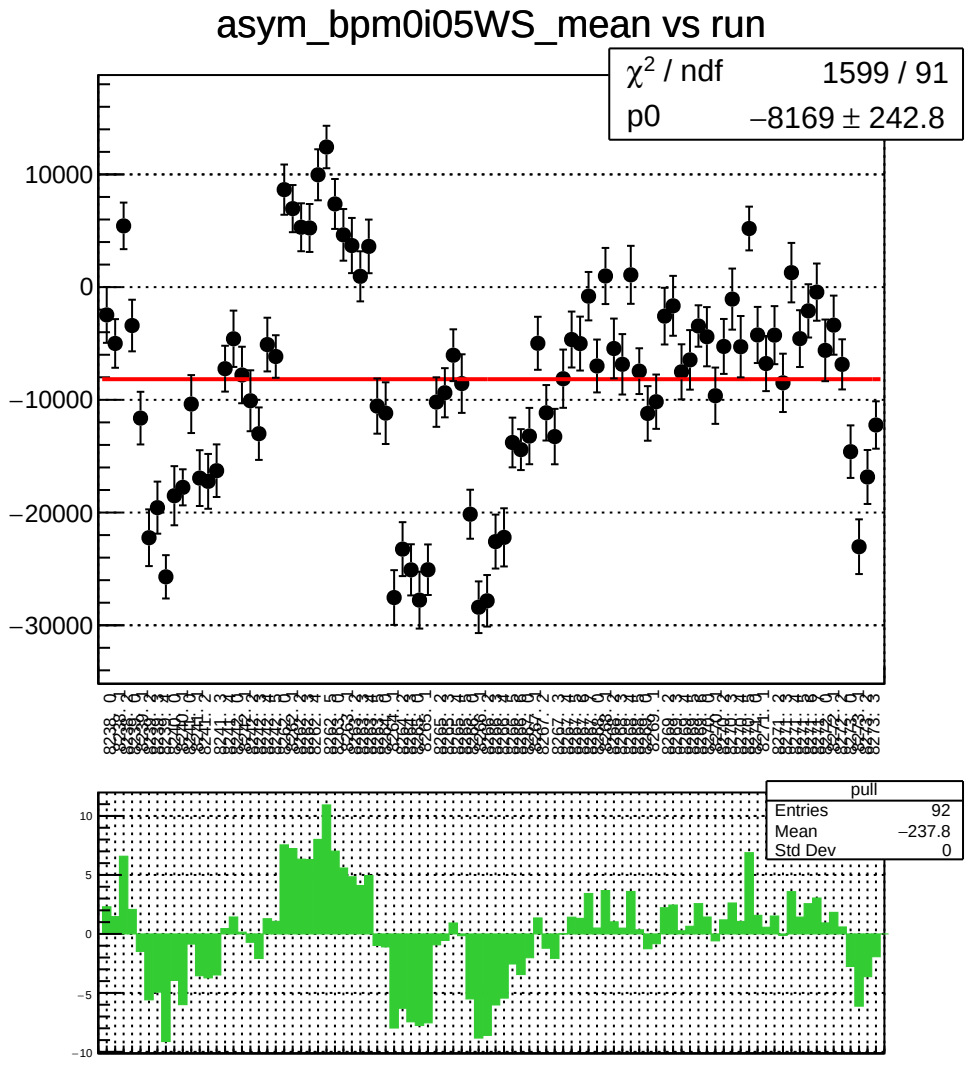

asym_bpm0i02WS_mean vs run
χ² / ndf 1417 / 91
p0 6455 ± 229.6
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 1374
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
−8

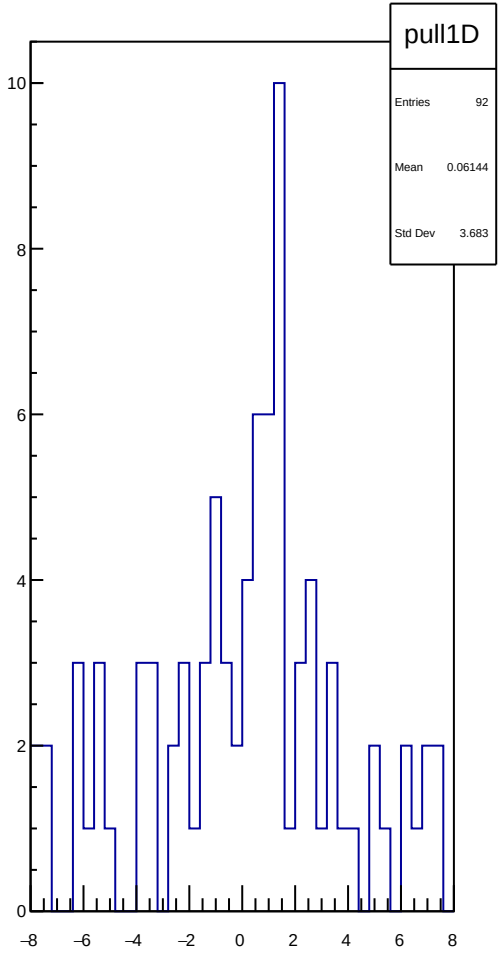

pull1D
Entries 92
Mean −0.1602
Std Dev 3.737
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

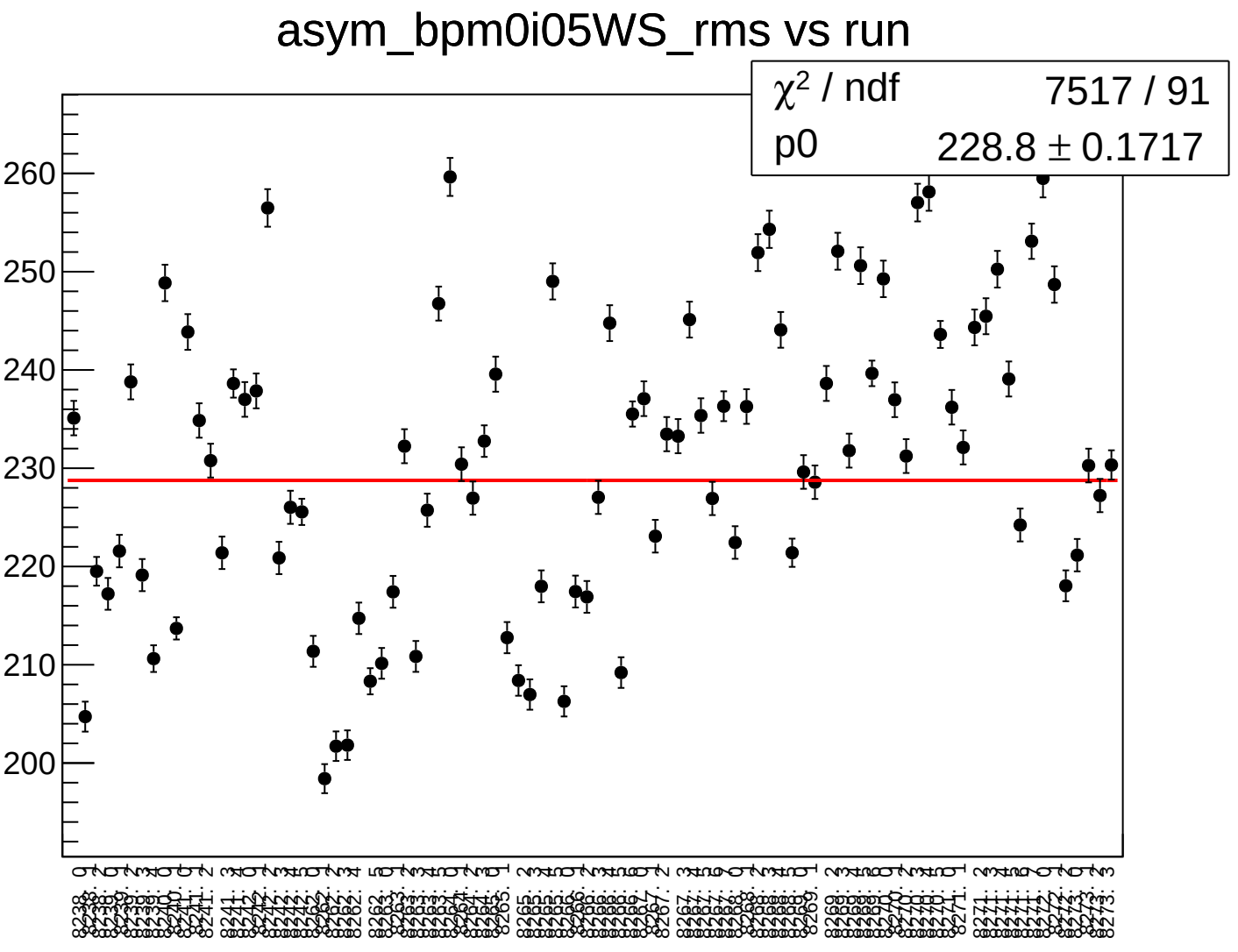

asym_bpm0i02WS_rms vs run
χ² / ndf 7651 / 91
p0 216.3 ± 0.1623
250
240
230
220
210
200
190

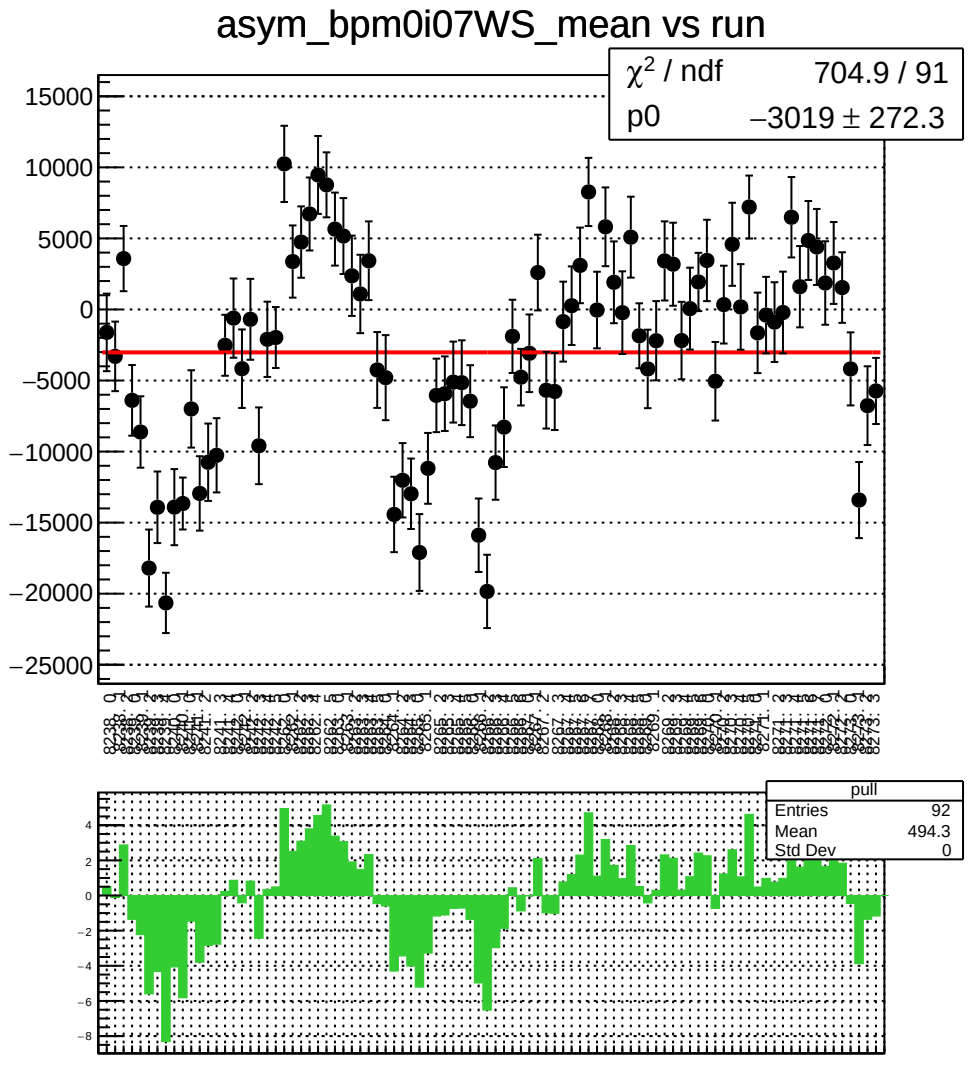

asym_bpm0i02aWS_mean vs run
χ² / ndf 1184 / 91
p0 1.002e+04 ± 216.9
pull
Entries 92
Mean 2580
Std Dev 0
pull1D
Entries 92
Mean 0.01752
Std Dev 3.587

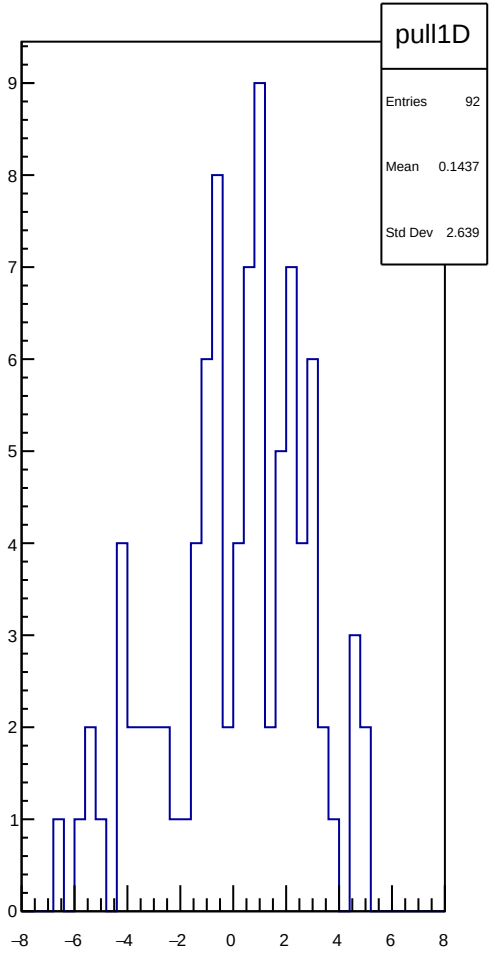

asym_bpm0i02aWS_rms vs run
χ² / ndf 4882 / 91
p0 204.5 ± 0.1534
250
240
230
220
210
200
190
180

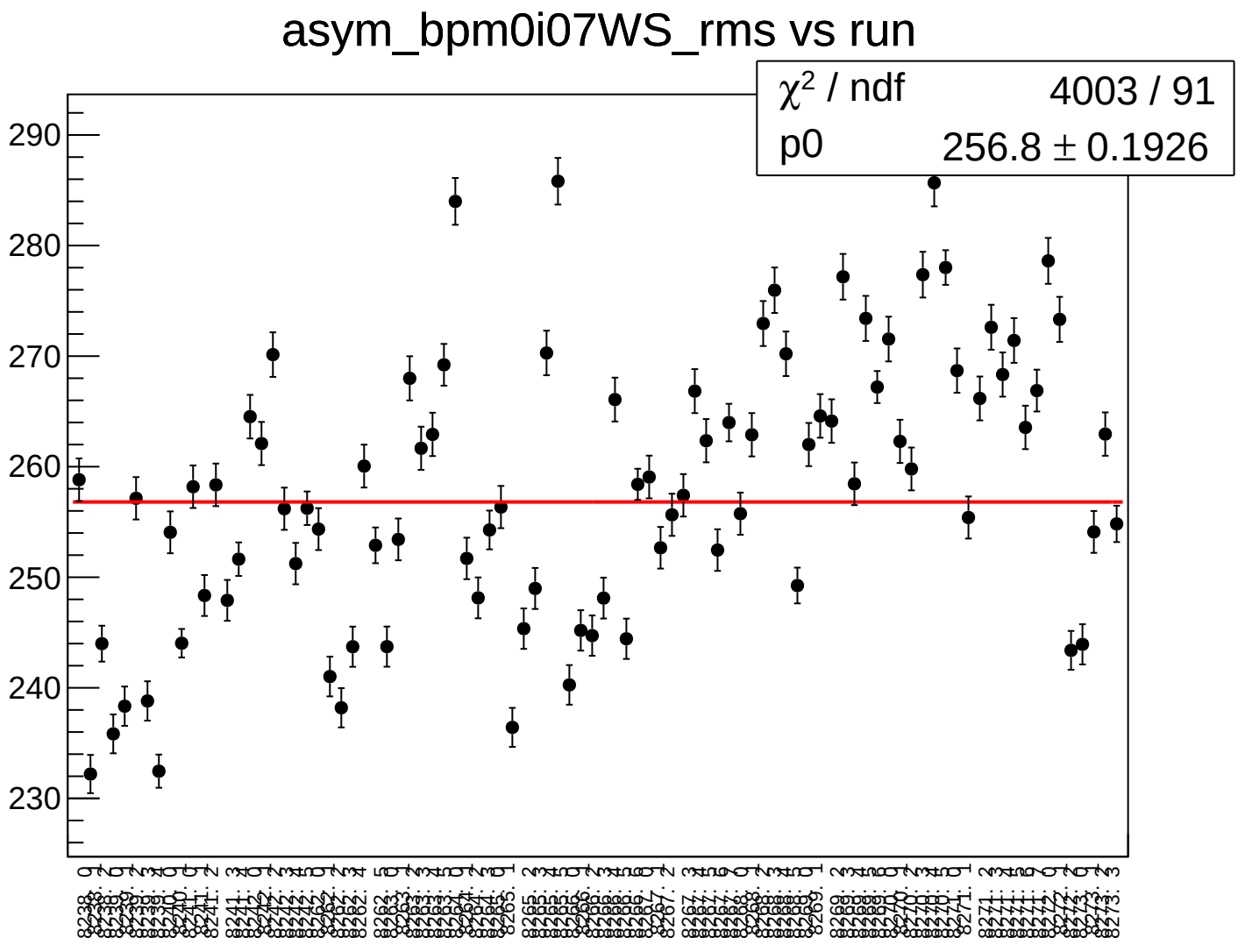

asym_bpm0i05WS_mean vs run
χ² / ndf 1599 / 91
p0 −8169 ± 242.8
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −237.8
Std Dev 0
10
5
0
−5
−10

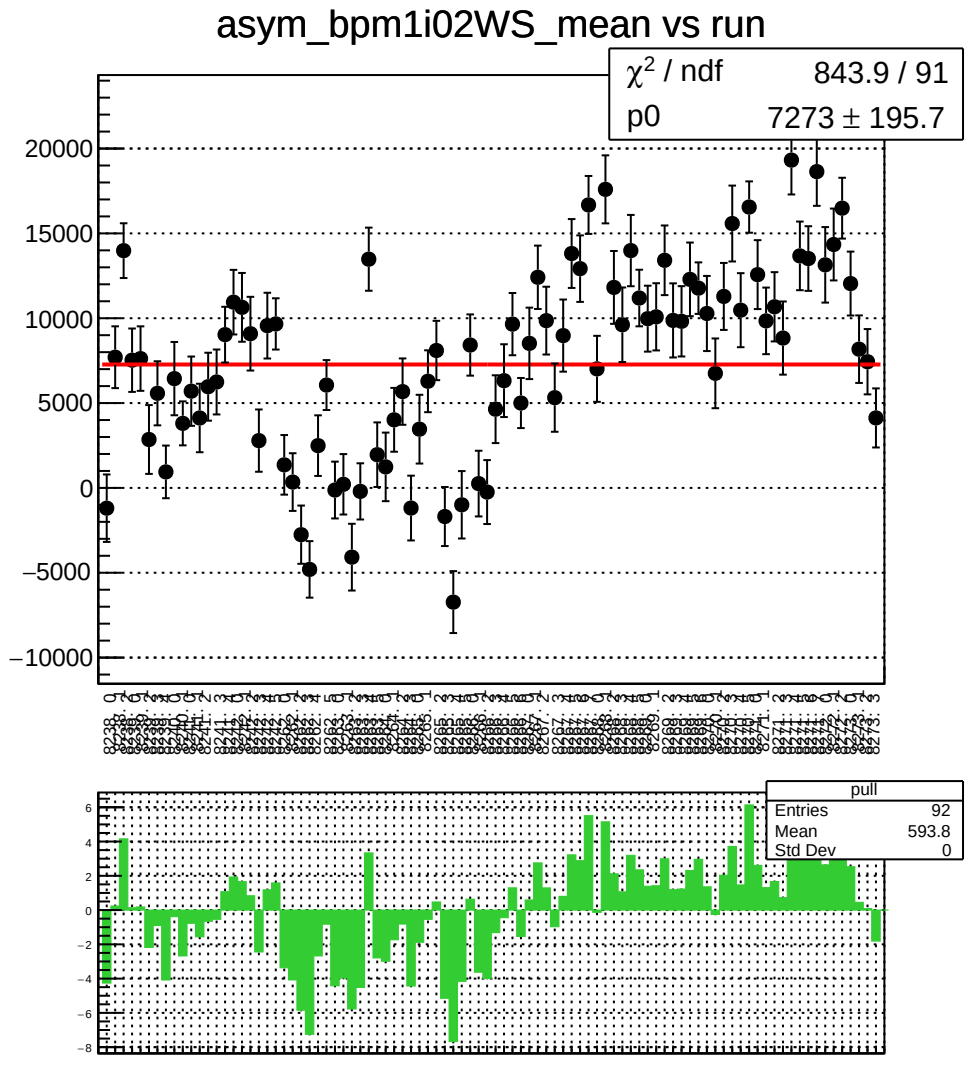

pull1D
Entries 92
Mean 0.06144
Std Dev 3.683
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

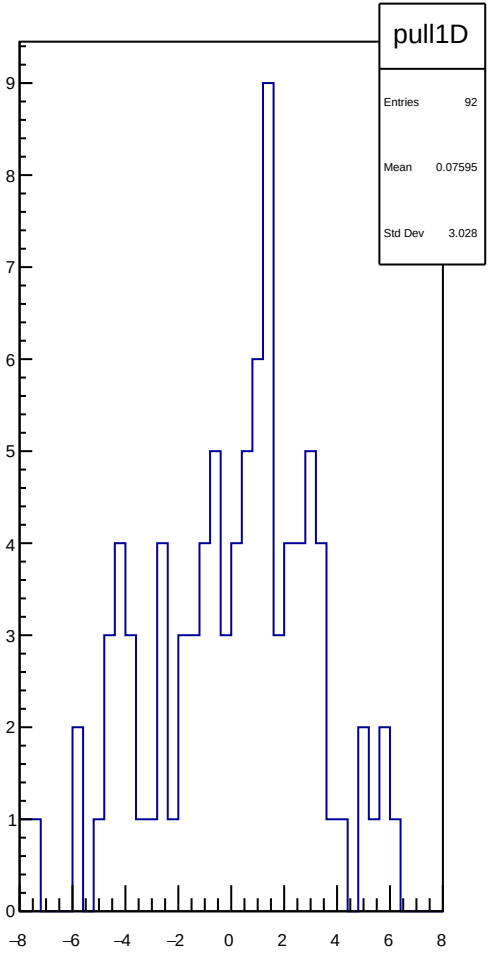

asym_bpm0i05WS_rms vs run
χ² / ndf 7517 / 91
p0 228.8 ± 0.1717
260
250
240
230
220
210
200

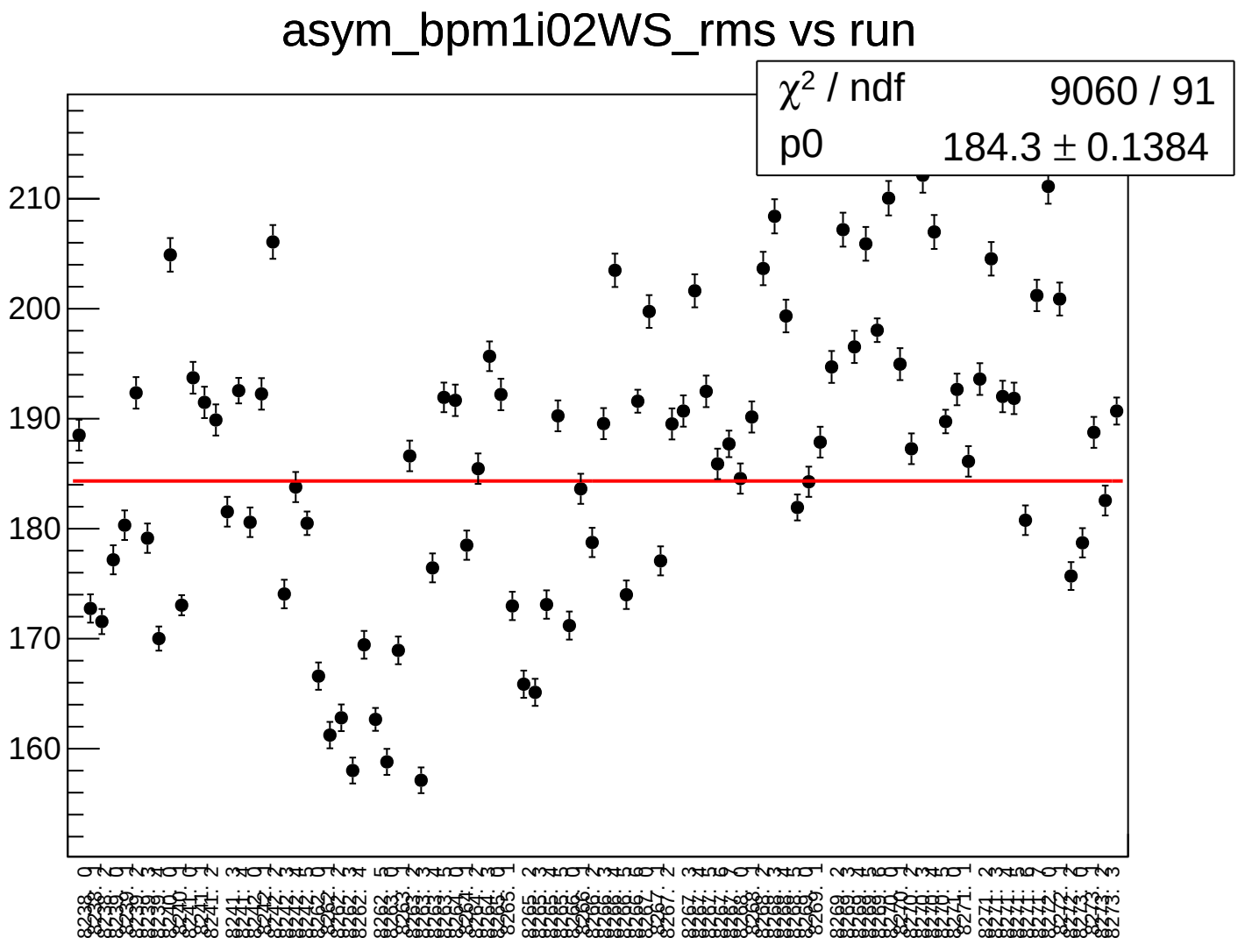

asym_bpm0i07WS_mean vs run
χ² / ndf 704.9 / 91
p0 −3019 ± 272.3
pull
Entries 92
Mean 494.3
Std Dev 0

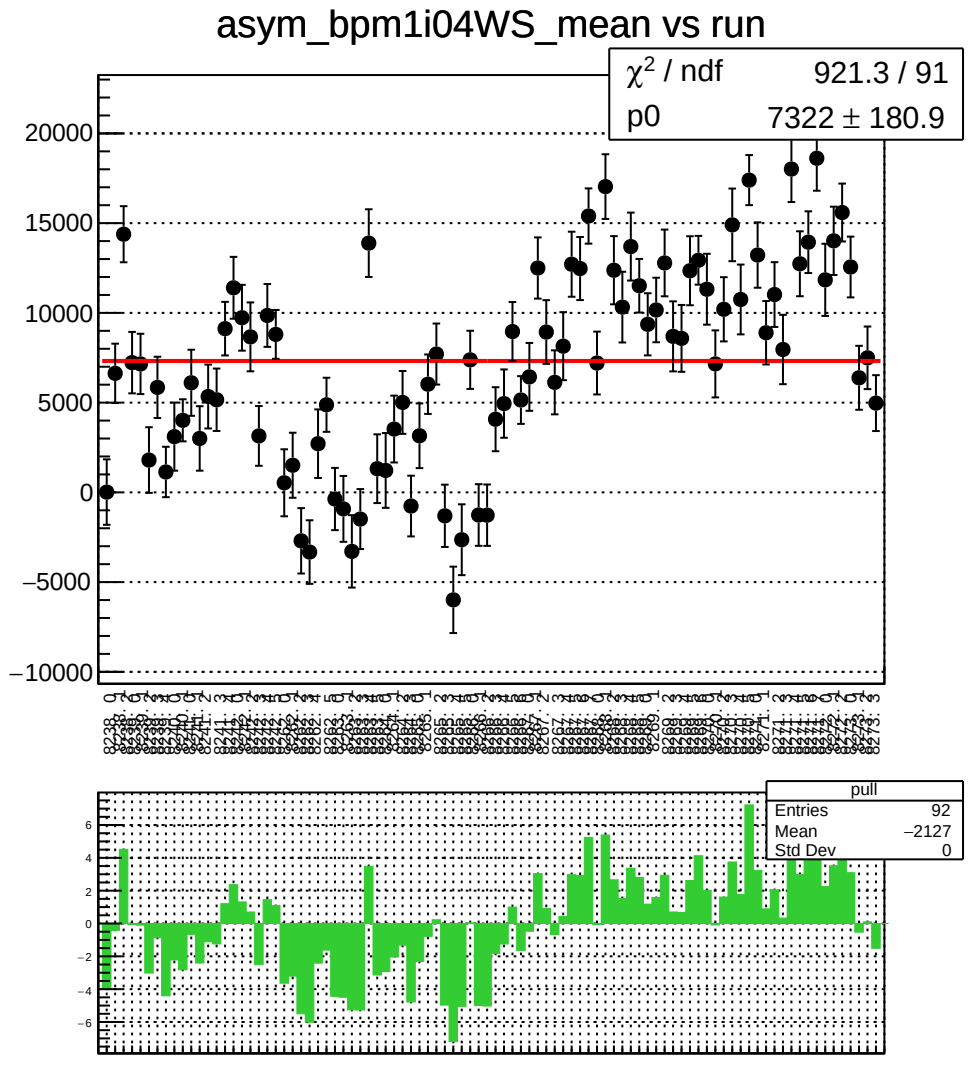

pull1D
Entries 92
Mean 0.1437
Std Dev 2.639

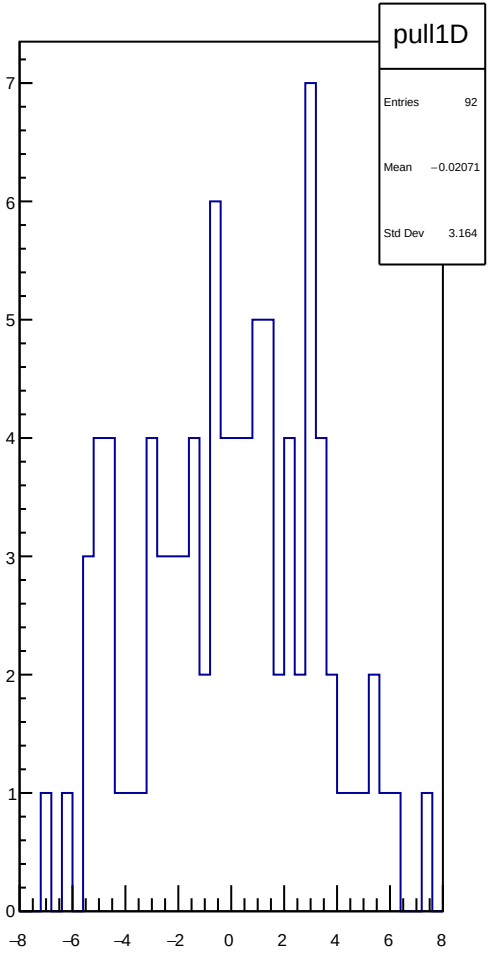

asym_bpm0i07WS_rms vs run
χ² / ndf 4003 / 91
p0 256.8 ± 0.1926
290
280
270
260
250
240
230

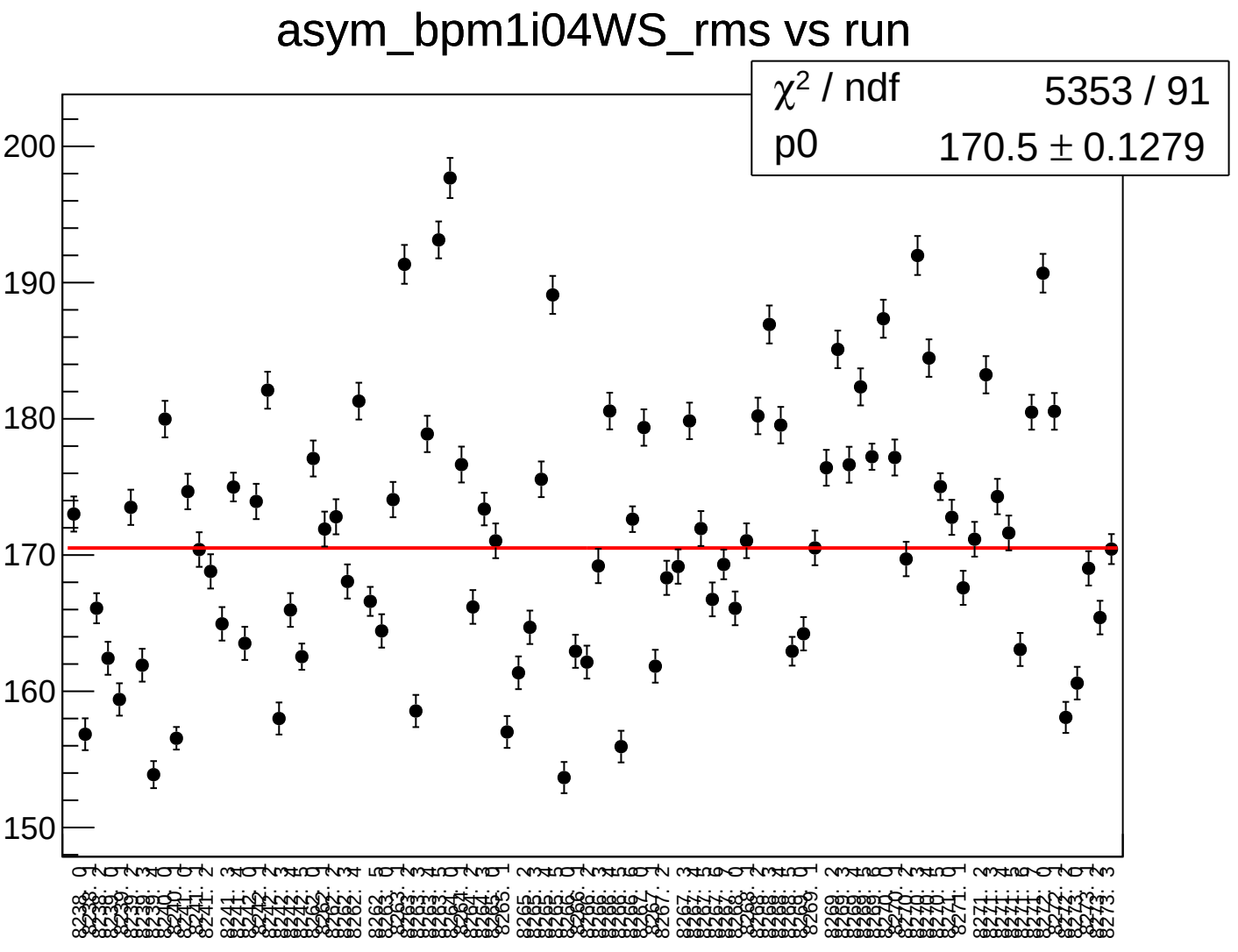

asym_bpm1i02WS_mean vs run
χ² / ndf 843.9 / 91
p0 7273 ± 195.7
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 593.8
Std Dev 0
6
4
2
0
−2
−4
−6
−8

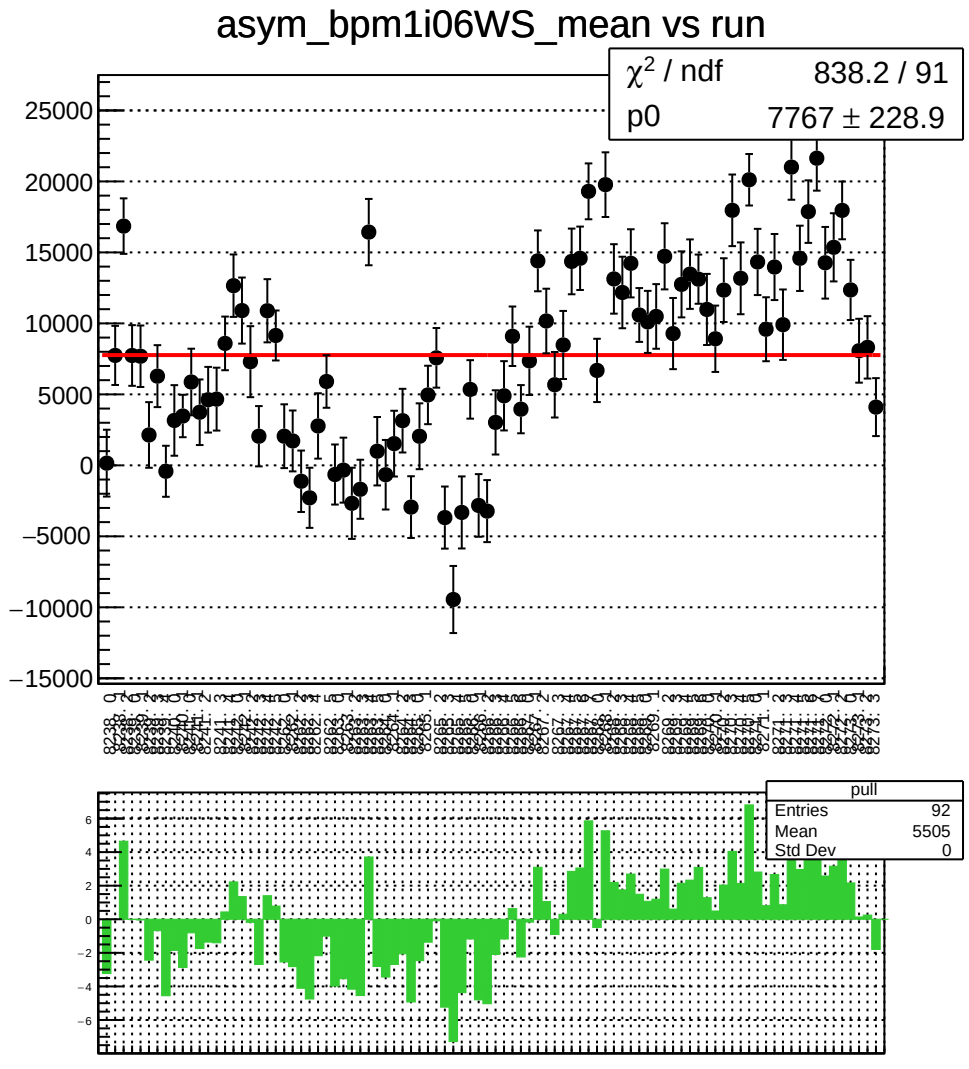

pull1D
Entries 92
Mean 0.07595
Std Dev 3.028
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

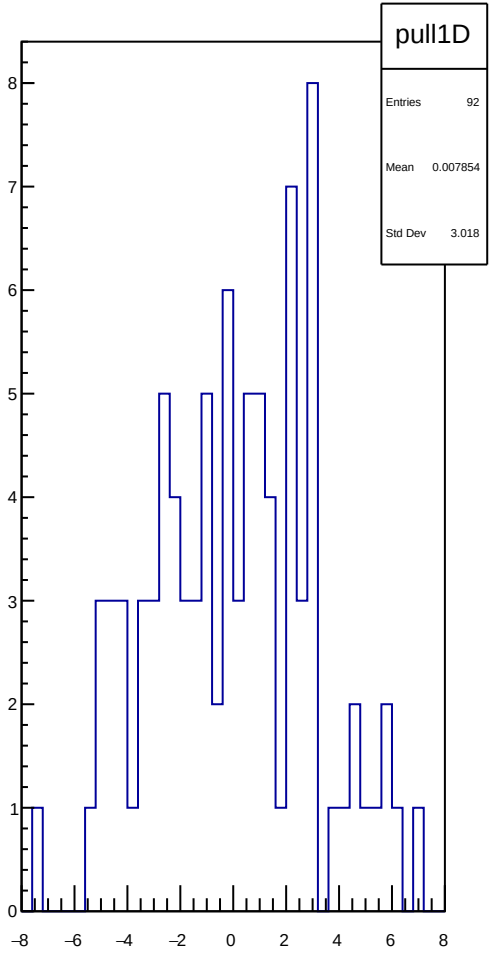

asym_bpm1i02WS_rms vs run
χ² / ndf 9060 / 91
p0 184.3 ± 0.1384
210
200
190
180
170
160

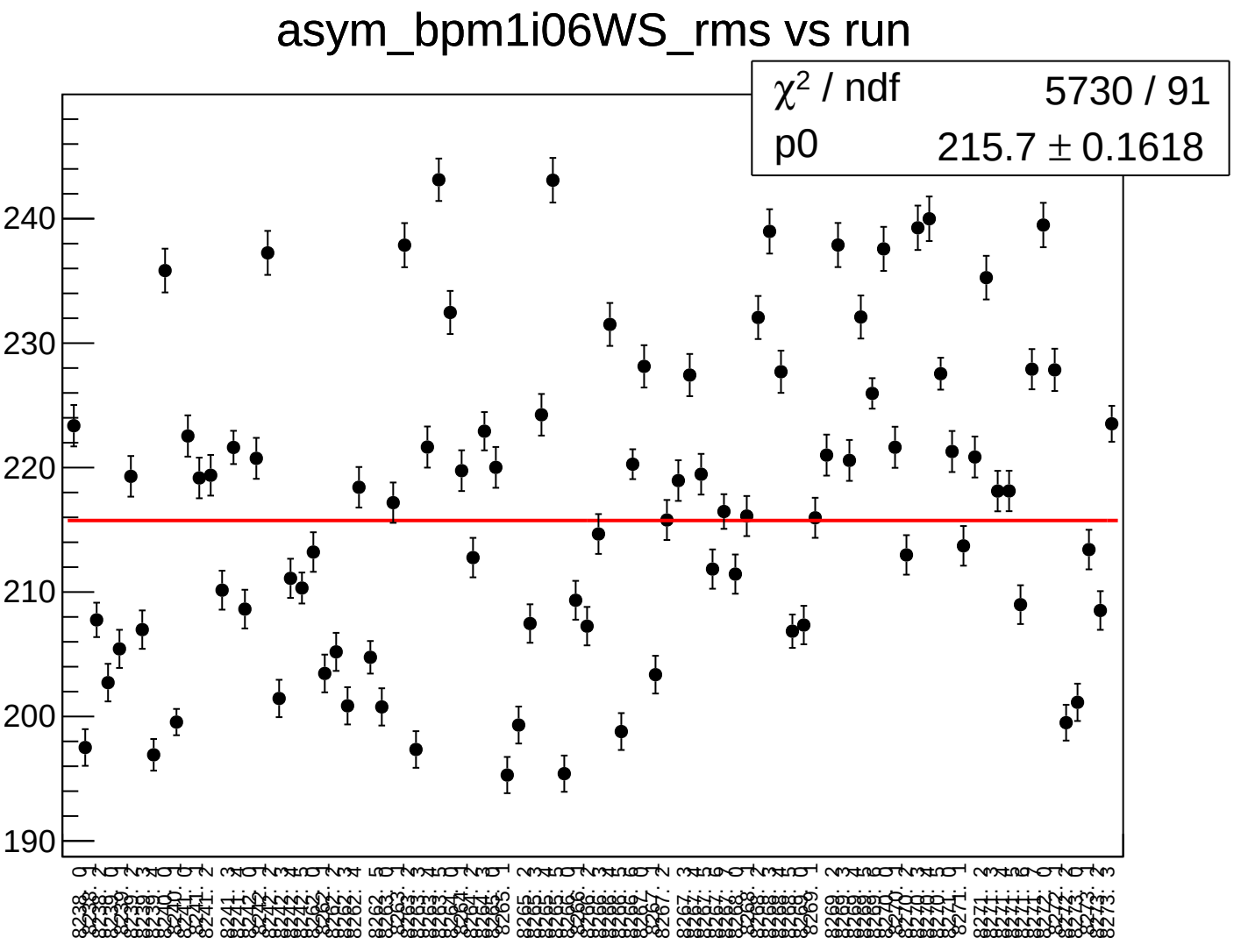

asym_bpm1i04WS_mean vs run
χ² / ndf 921.3 / 91
p0 7322 ± 180.9
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −2127
Std Dev 0
6
4
2
0
−2
−4
−6

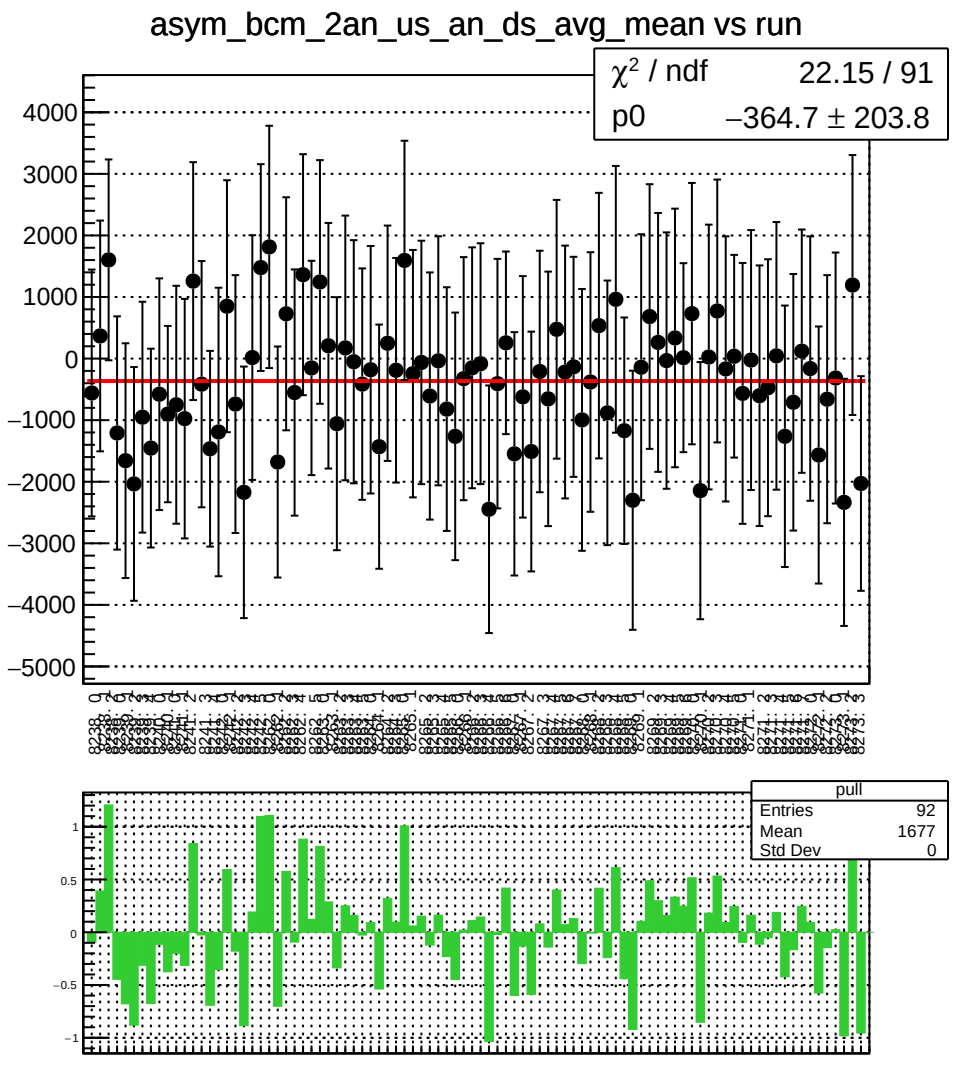

pull1D
Entries 92
Mean −0.02071
Std Dev 3.164
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

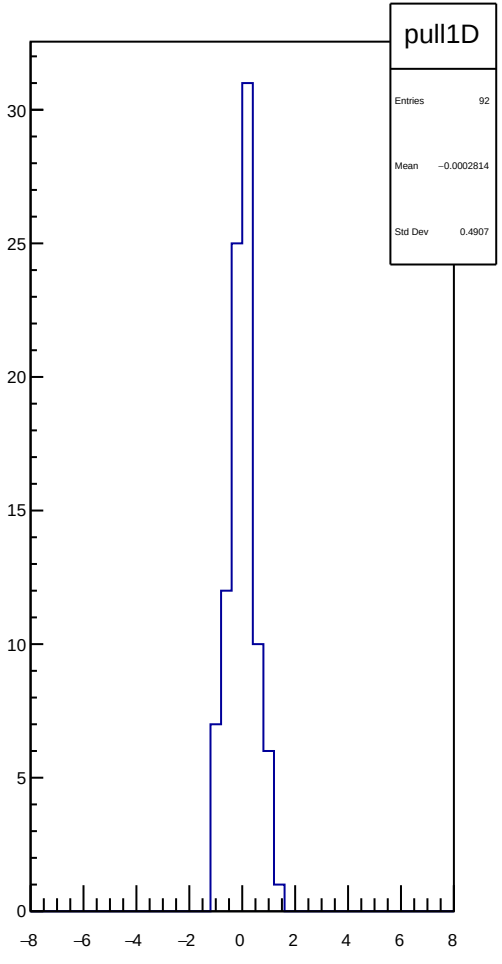

asym_bpm1i04WS_rms vs run
χ² / ndf 5353 / 91
p0 170.5 ± 0.1279
200
190
180
170
160
150

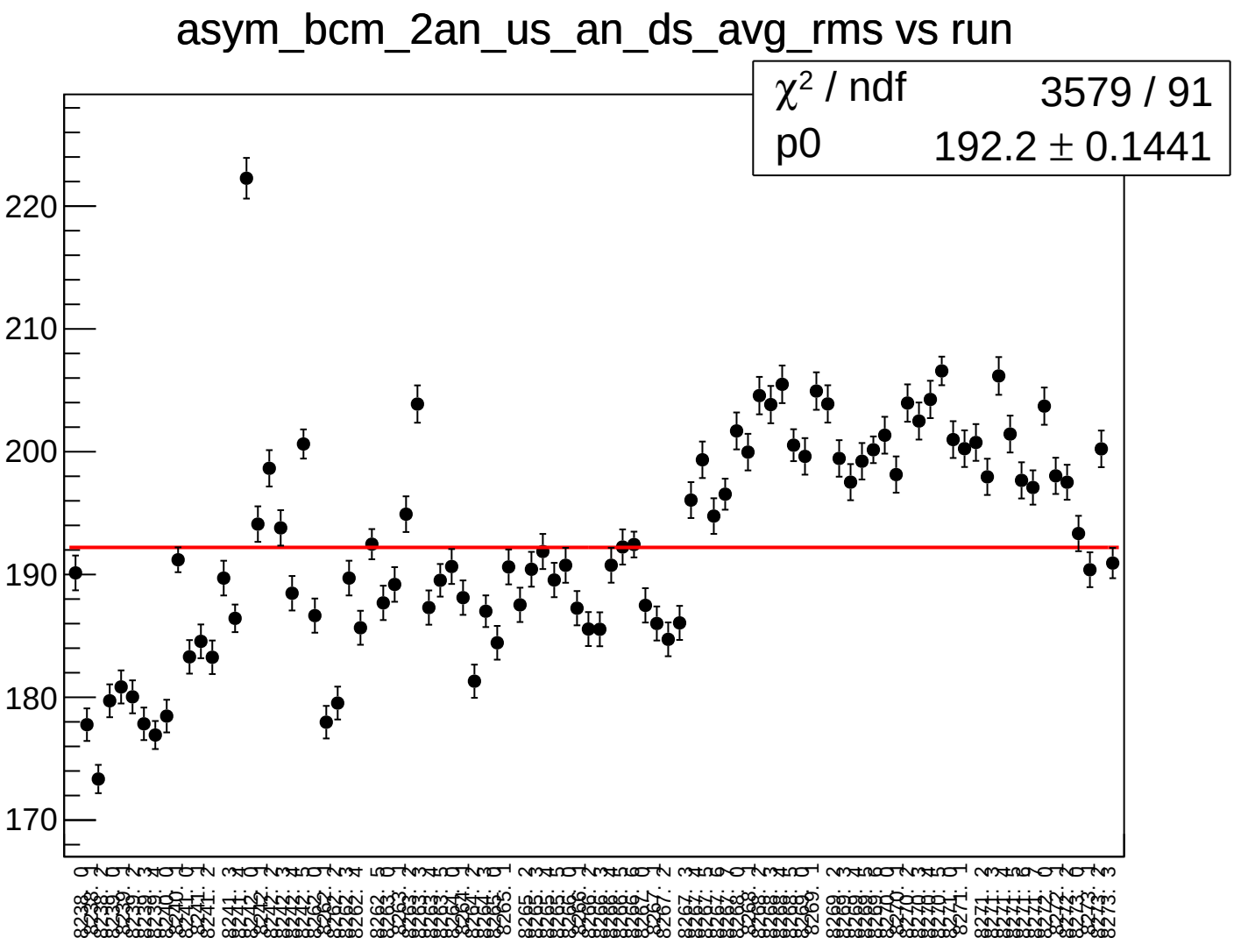

asym_bpm1i06WS_mean vs run
χ² / ndf 838.2 / 91
p0 7767 ± 228.9
pull
Entries 92
Mean 5505
Std Dev 0

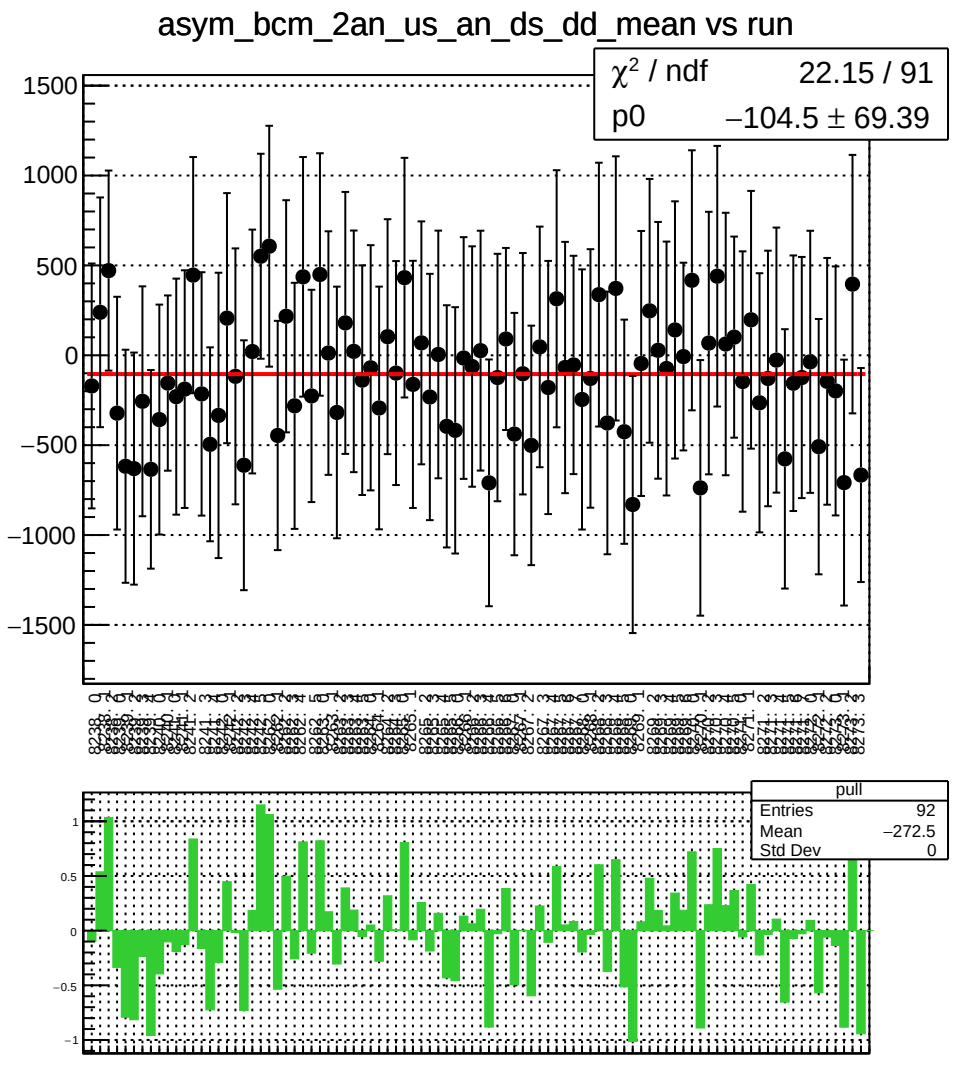

pull1D
Entries 92
Mean 0.007854
Std Dev 3.018

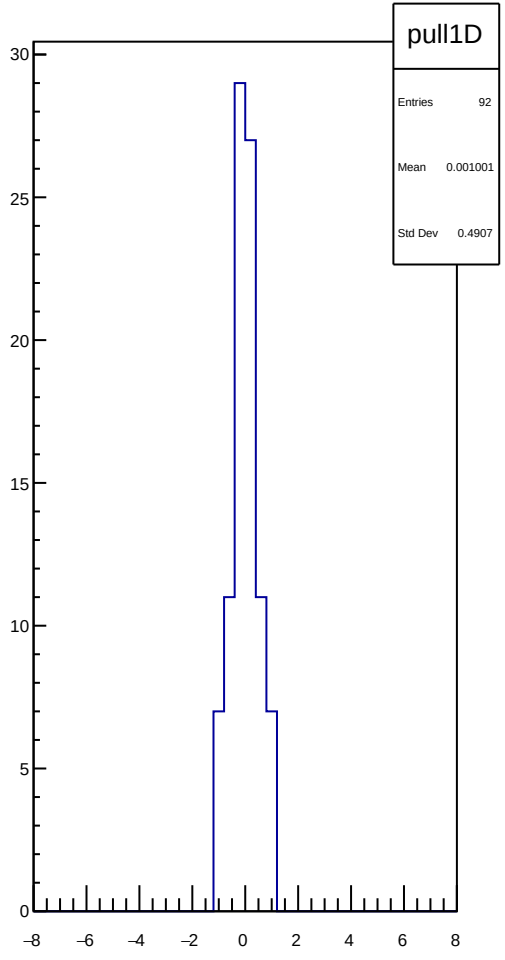

asym_bpm1i06WS_rms vs run
χ² / ndf 5730 / 91
p0 215.7 ± 0.1618
240
230
220
210
200
190

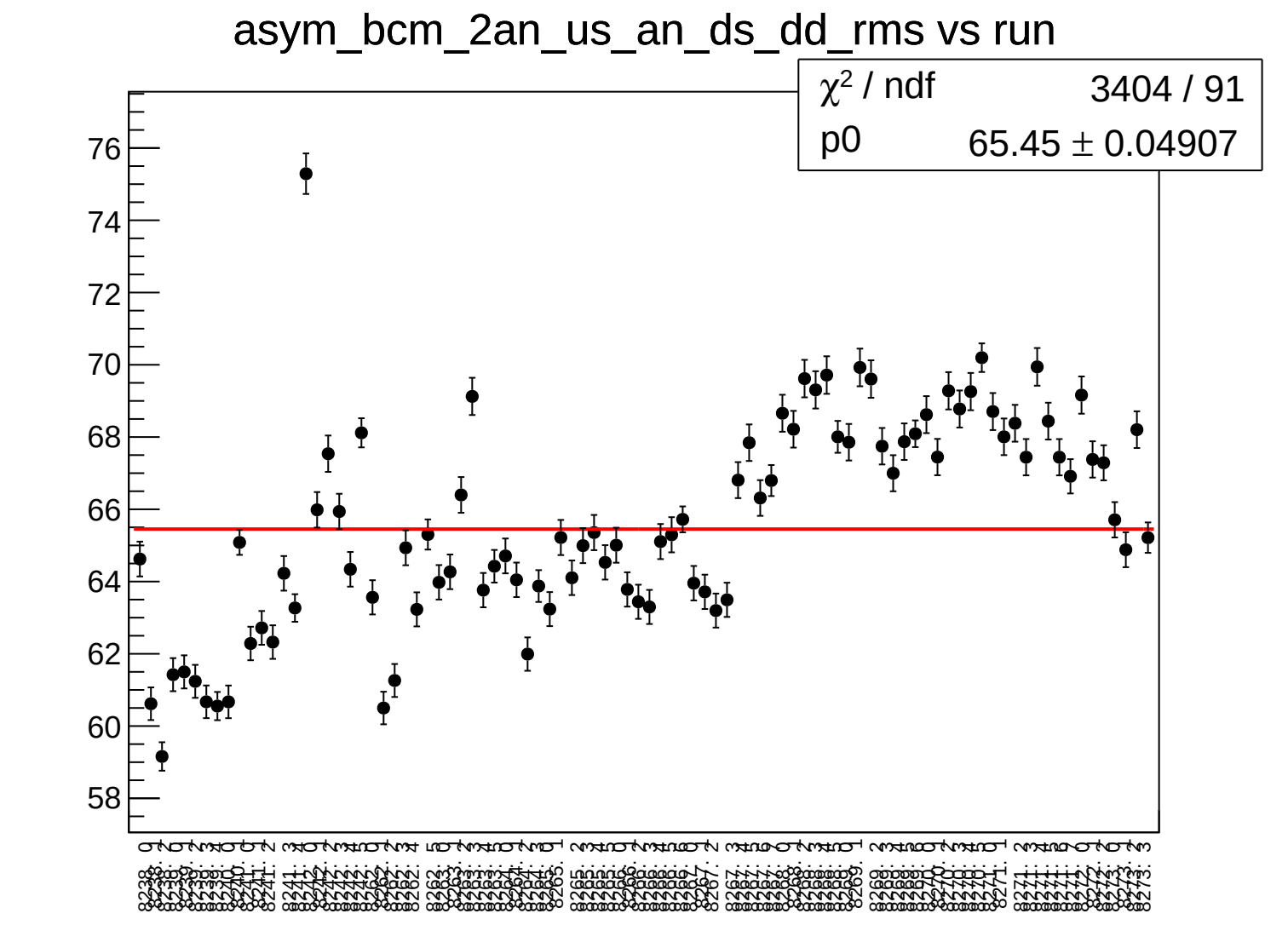

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 22.15 / 91
p0 −364.7 ± 203.8
pull
Entries 92
Mean 1677
Std Dev 0

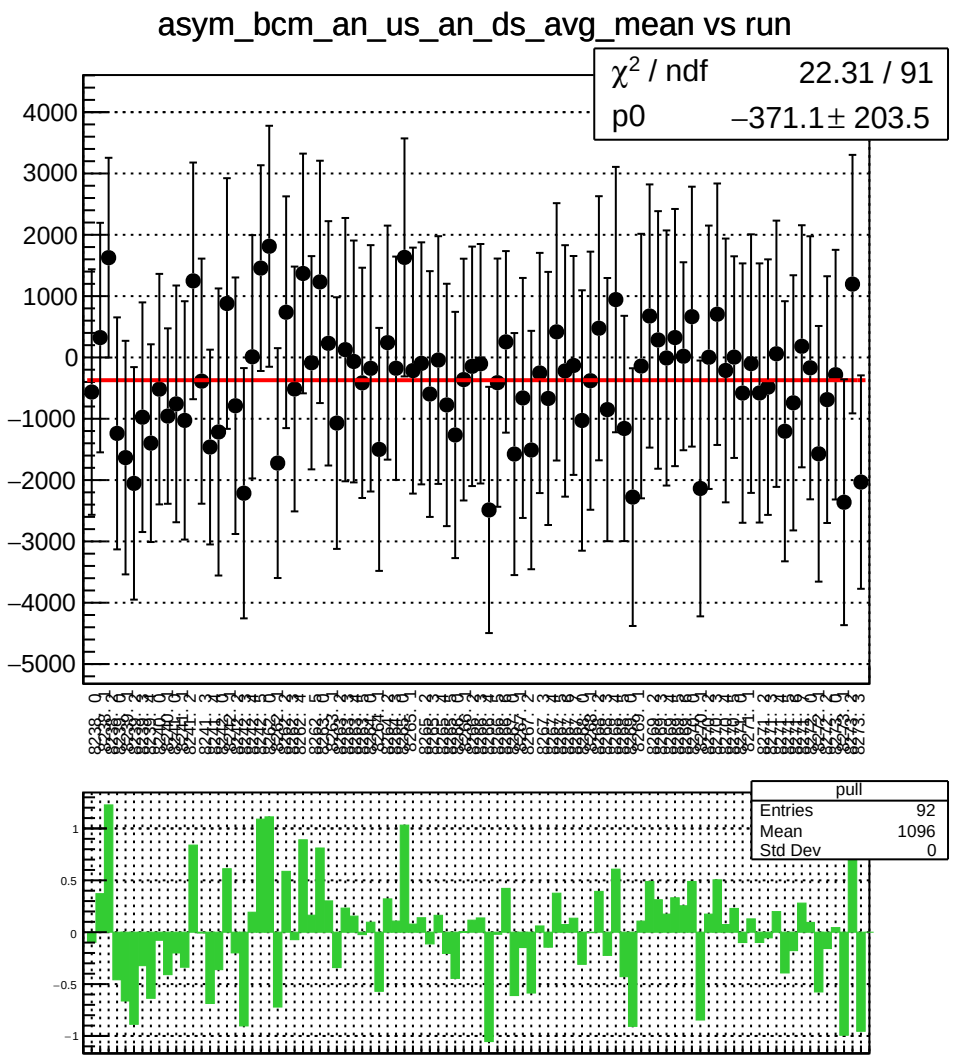

pull1D
Entries 92
Mean −0.0002814
Std Dev 0.4907

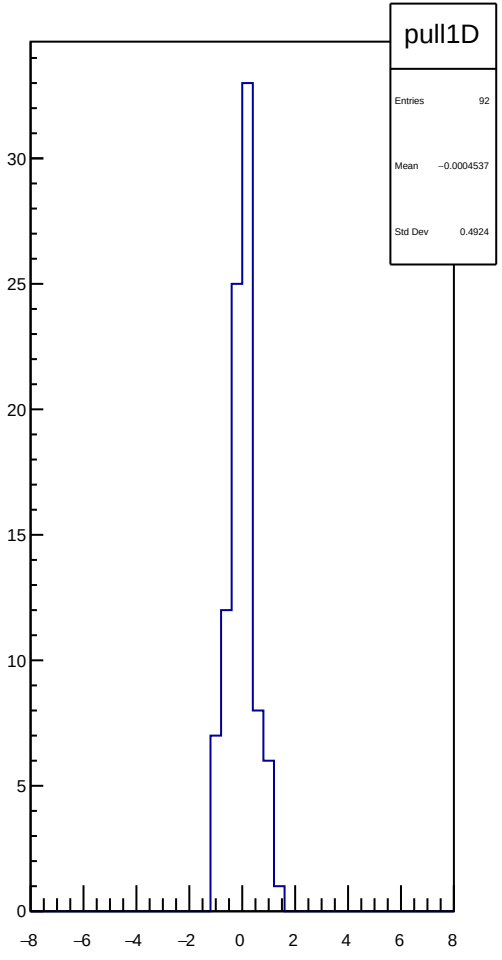

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 3579 / 91
p0 192.2 ± 0.1441
220
210
200
190
180
170

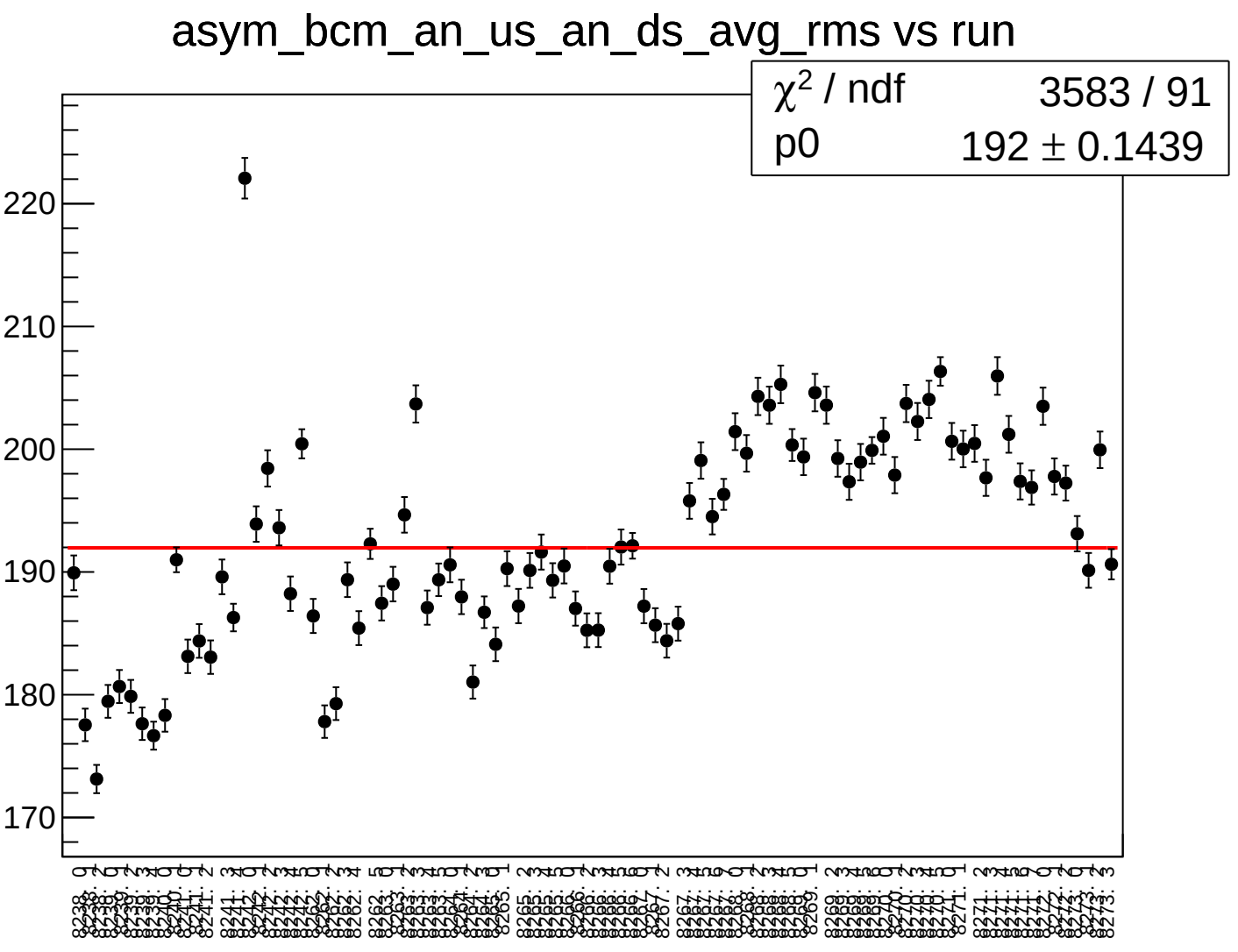

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 22.15 / 91
p0 −104.5 ± 69.39
1500
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −272.5
Std Dev 0
1
0.5
0
−0.5
−1

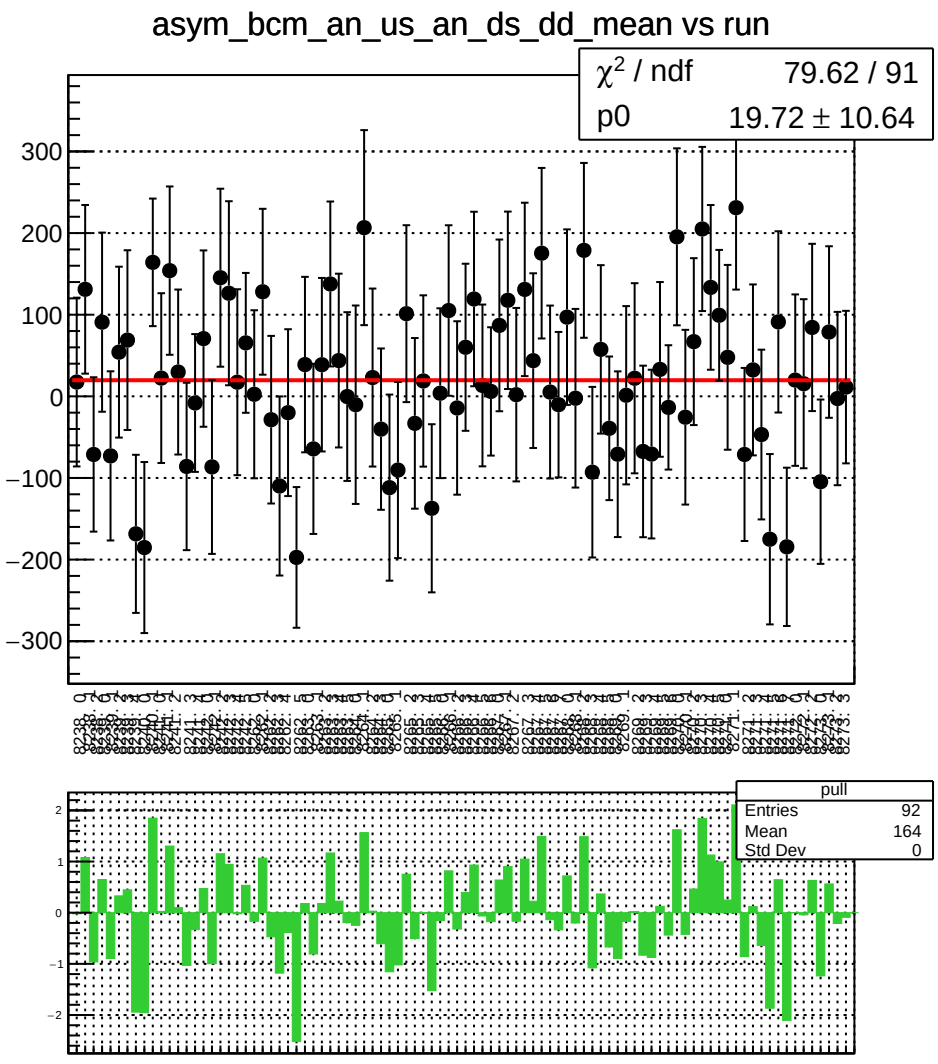

pull1D
Entries 92
Mean 0.001001
Std Dev 0.4907
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

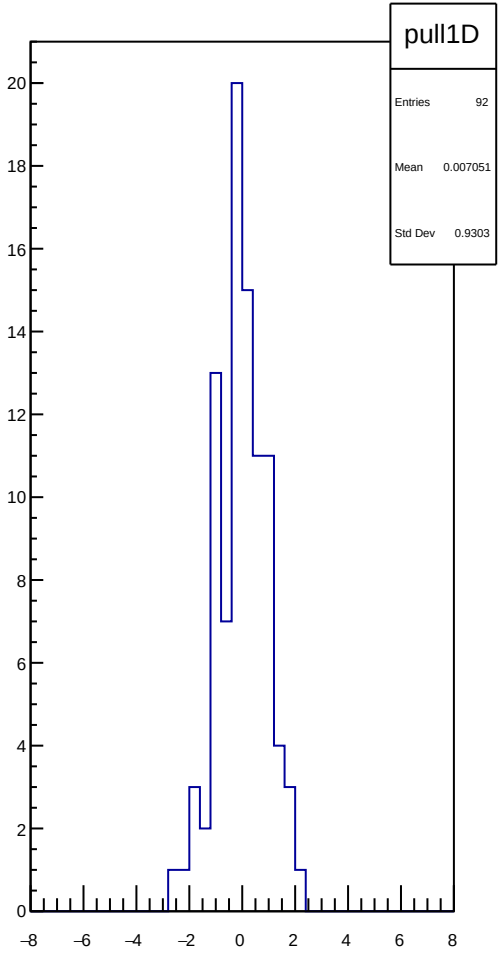

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 3404 / 91
p0 65.45 ± 0.04907
76
74
72
70
68
66
64
62
60
58

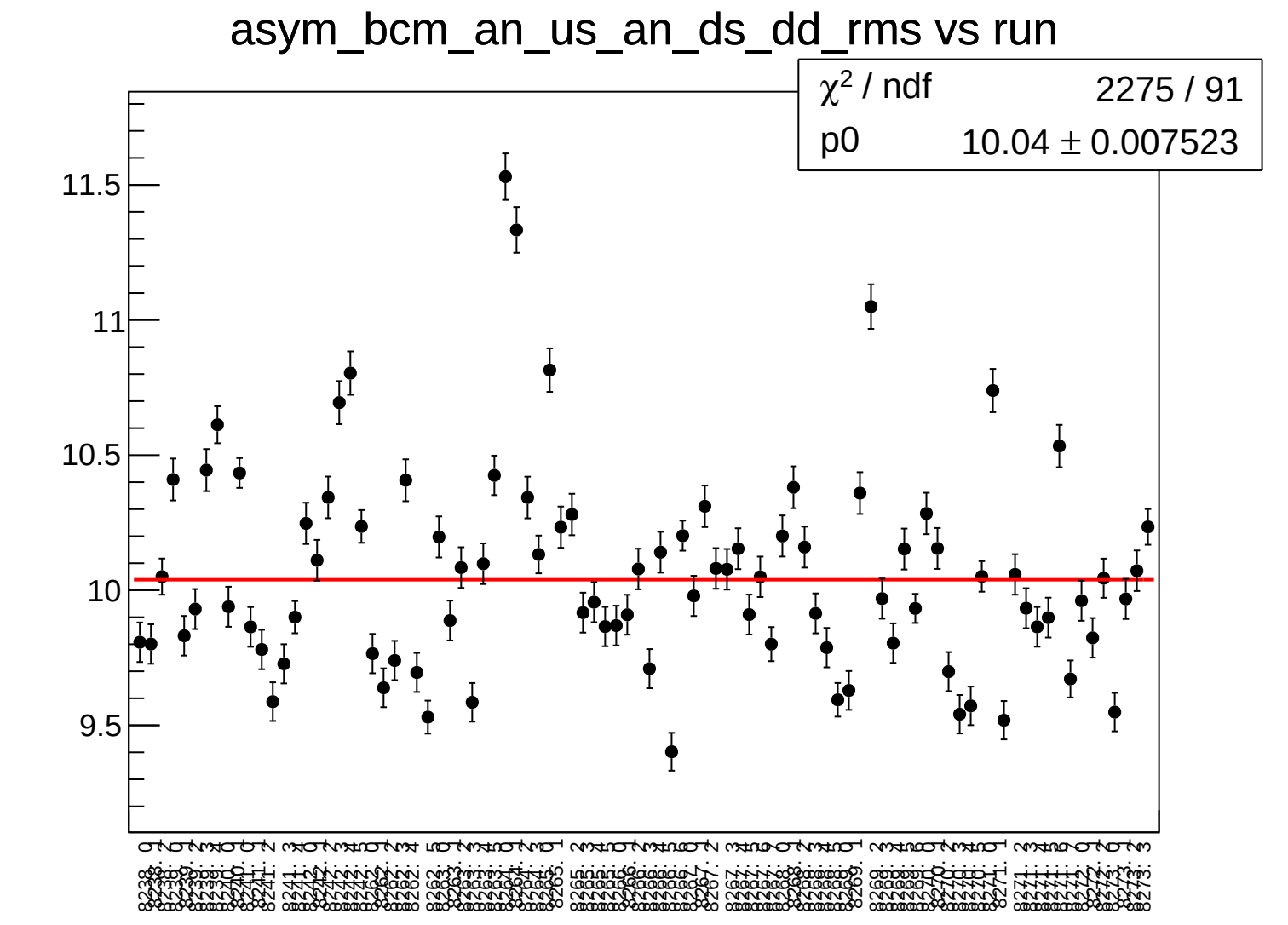

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 22.31 / 91
p0 −371.1± 203.5
pull
Entries 92
Mean 1096
Std Dev 0

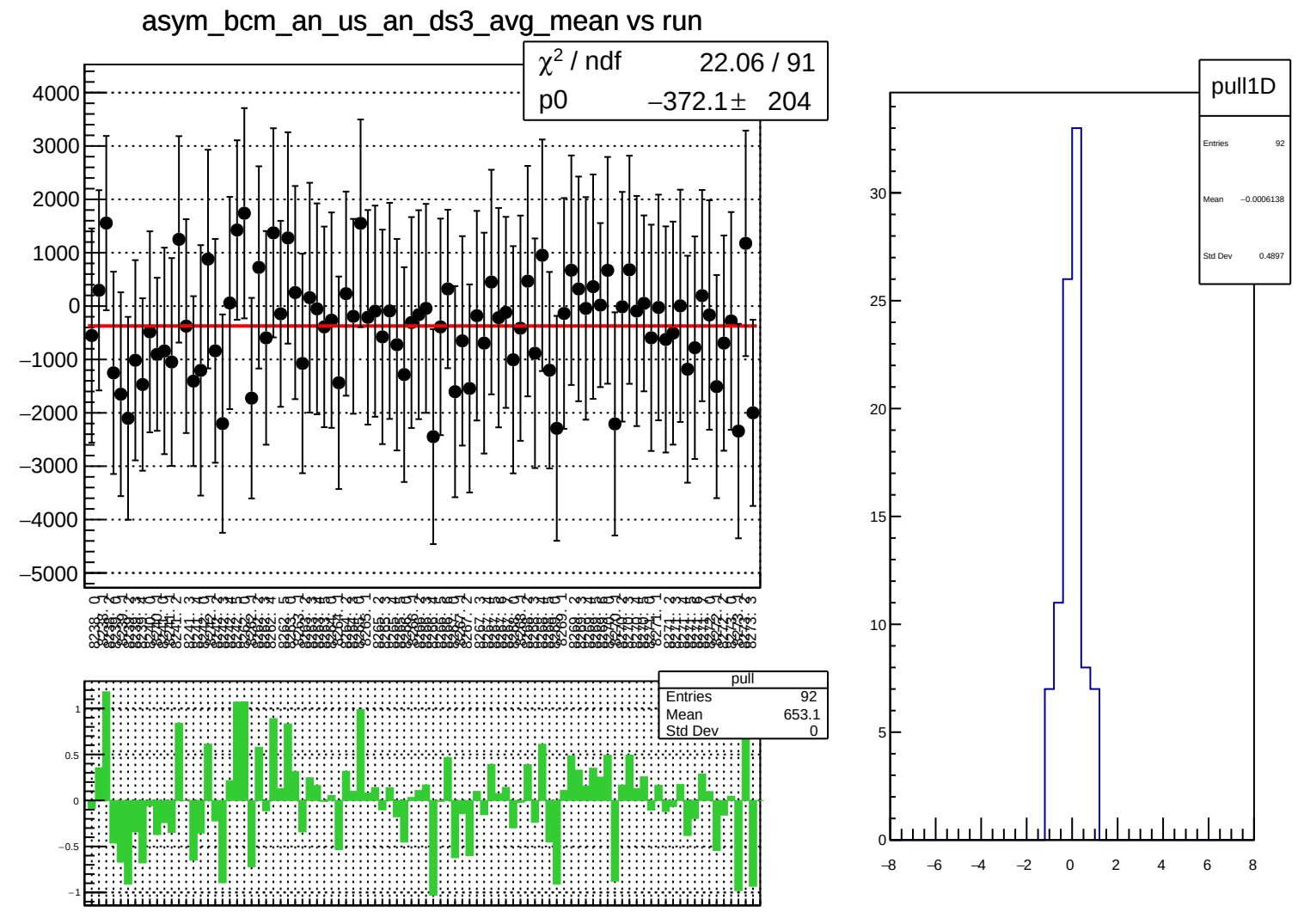

pull1D
Entries 92
Mean −0.0004537
Std Dev 0.4924

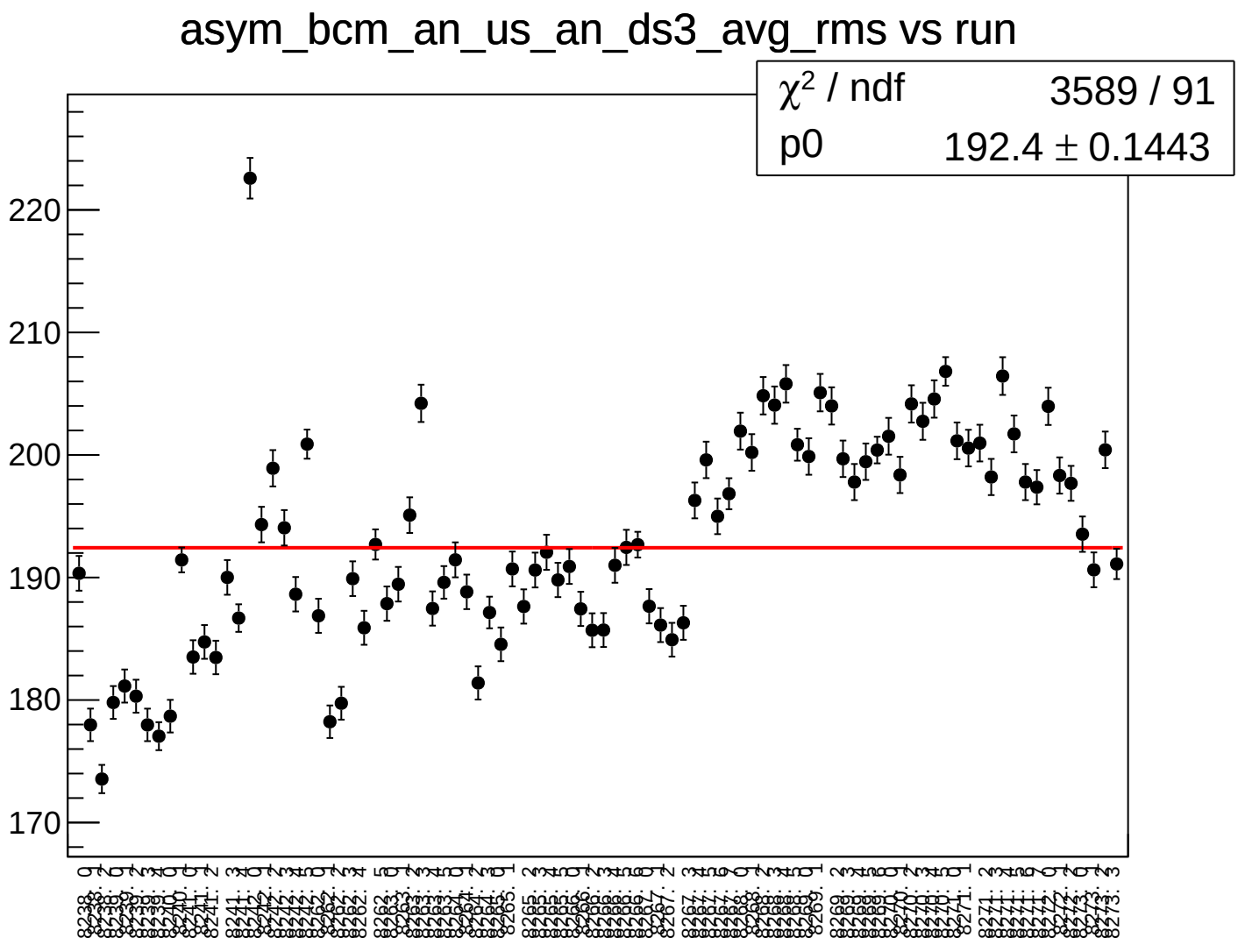

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 3583 / 91
p0 192 ± 0.1439
220
210
200
190
180
170

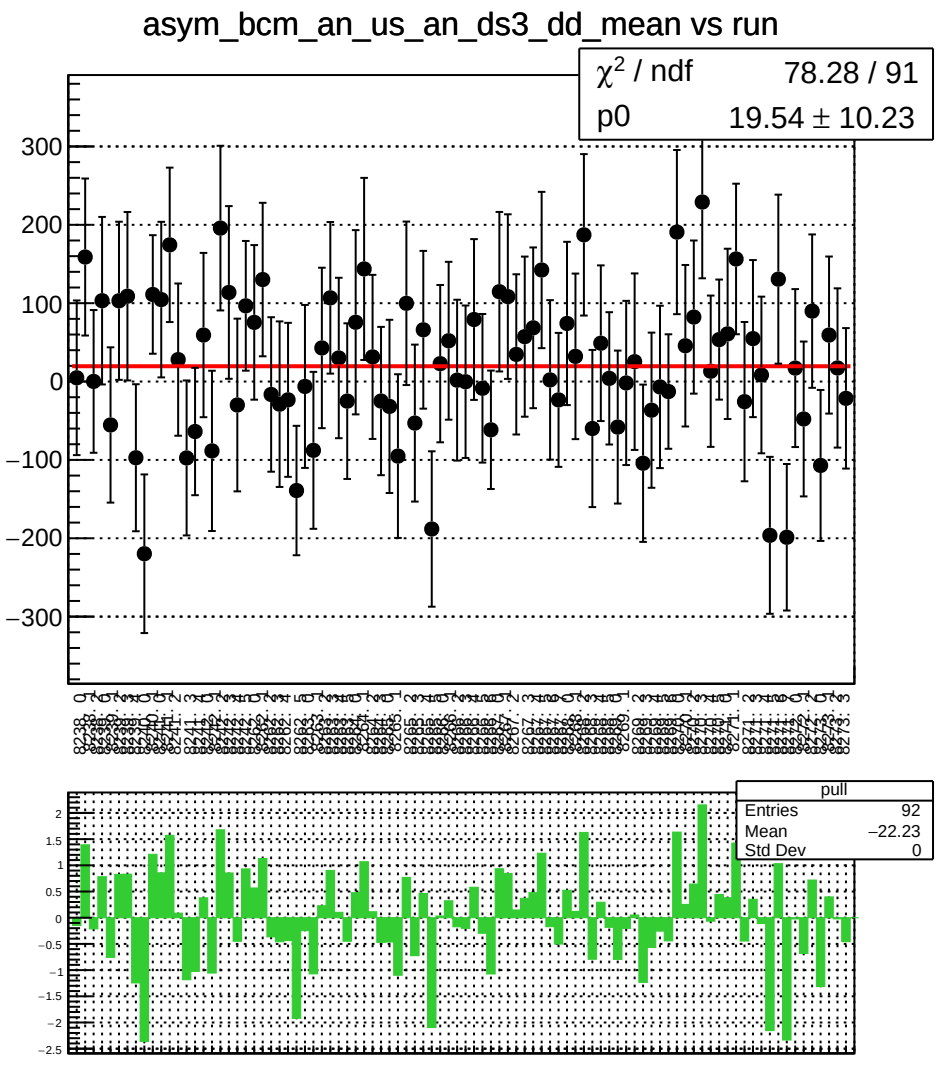

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 79.62 / 91
p0 19.72 ± 10.64
pull
Entries 92
Mean 164
Std Dev 0

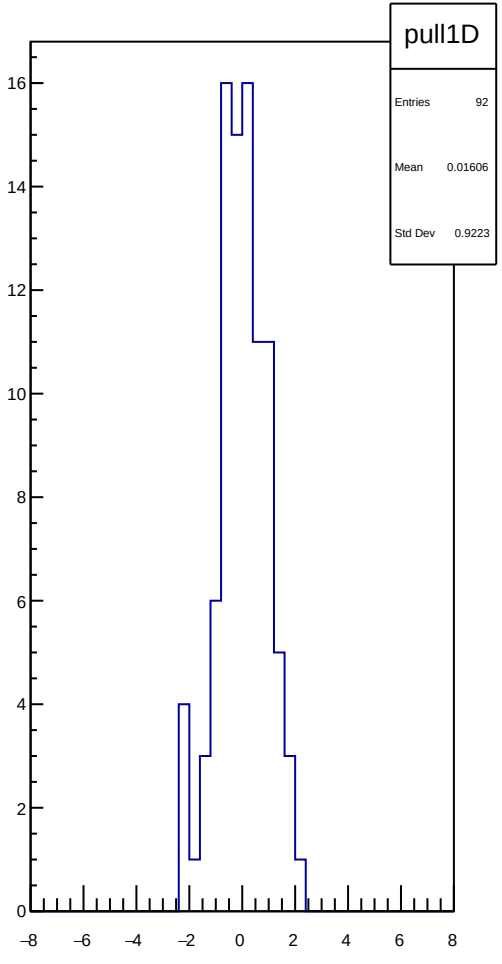

pull1D
Entries 92
Mean 0.007051
Std Dev 0.9303

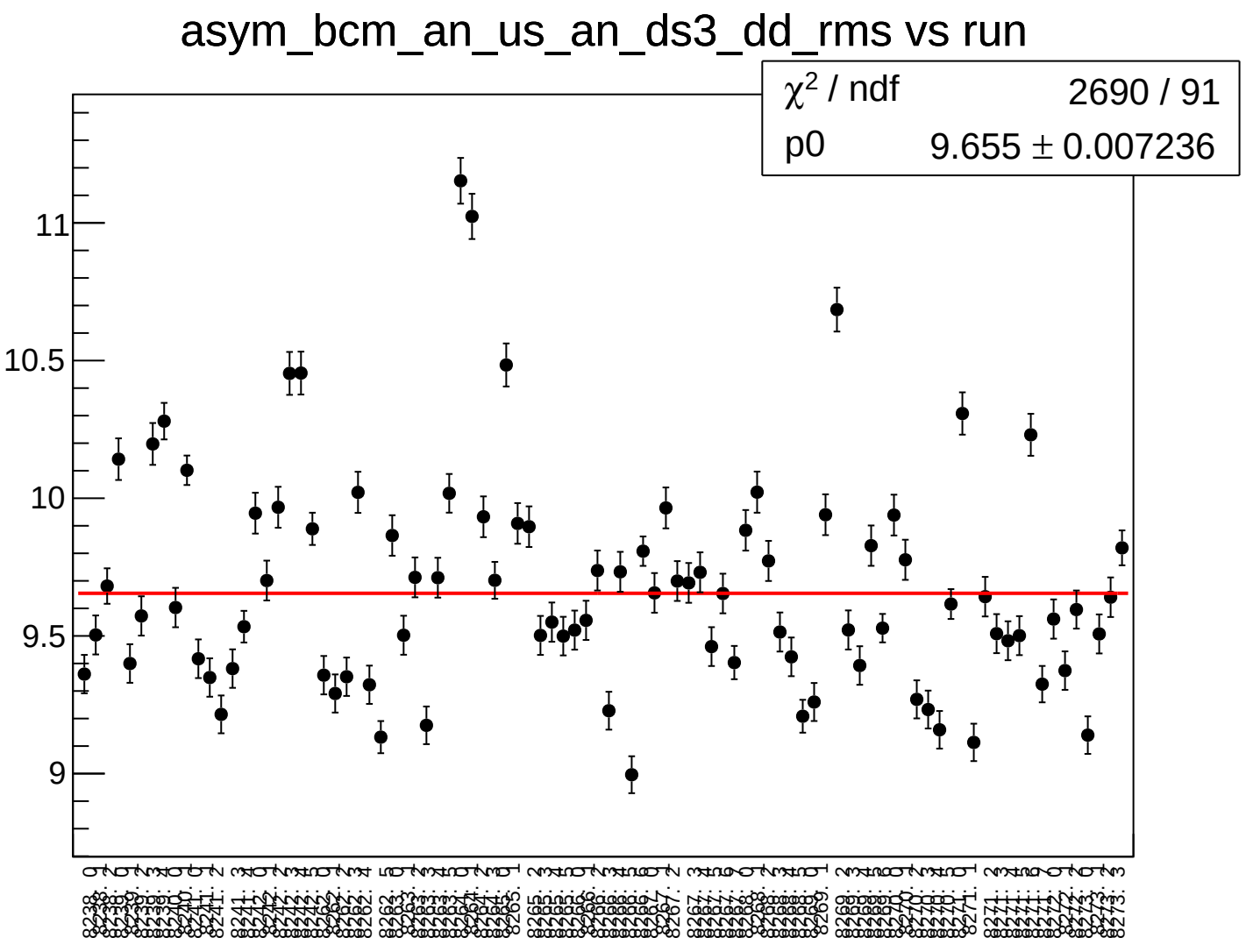

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 2275 / 91
p0 10.04 ± 0.007523
11.5
11
10.5
10
9.5

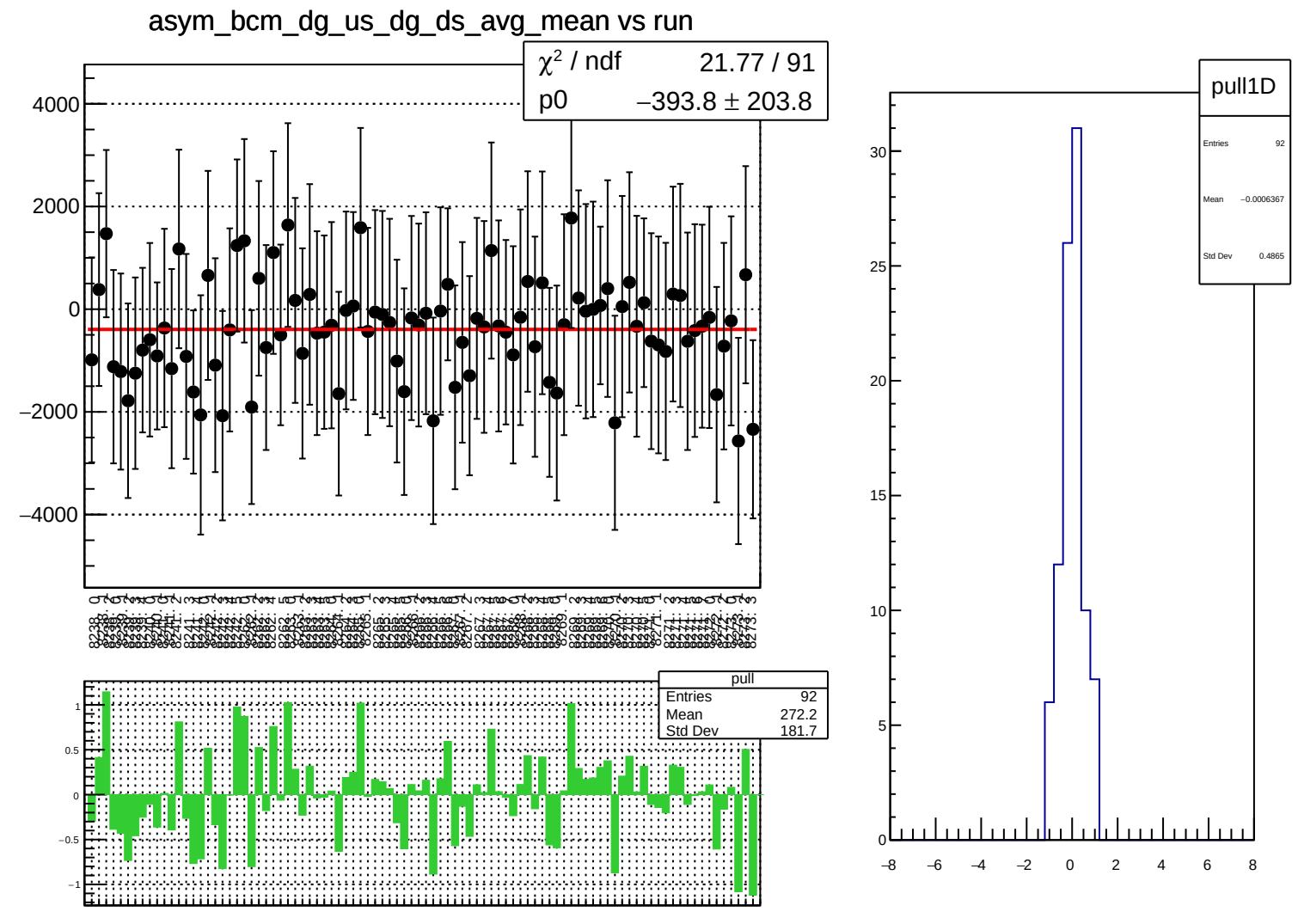

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 22.06 / 91
p0 −372.1± 204
pull
Entries 92
Mean 653.1
Std Dev 0
pull1D
Entries 92
Mean −0.0006138
Std Dev 0.4897

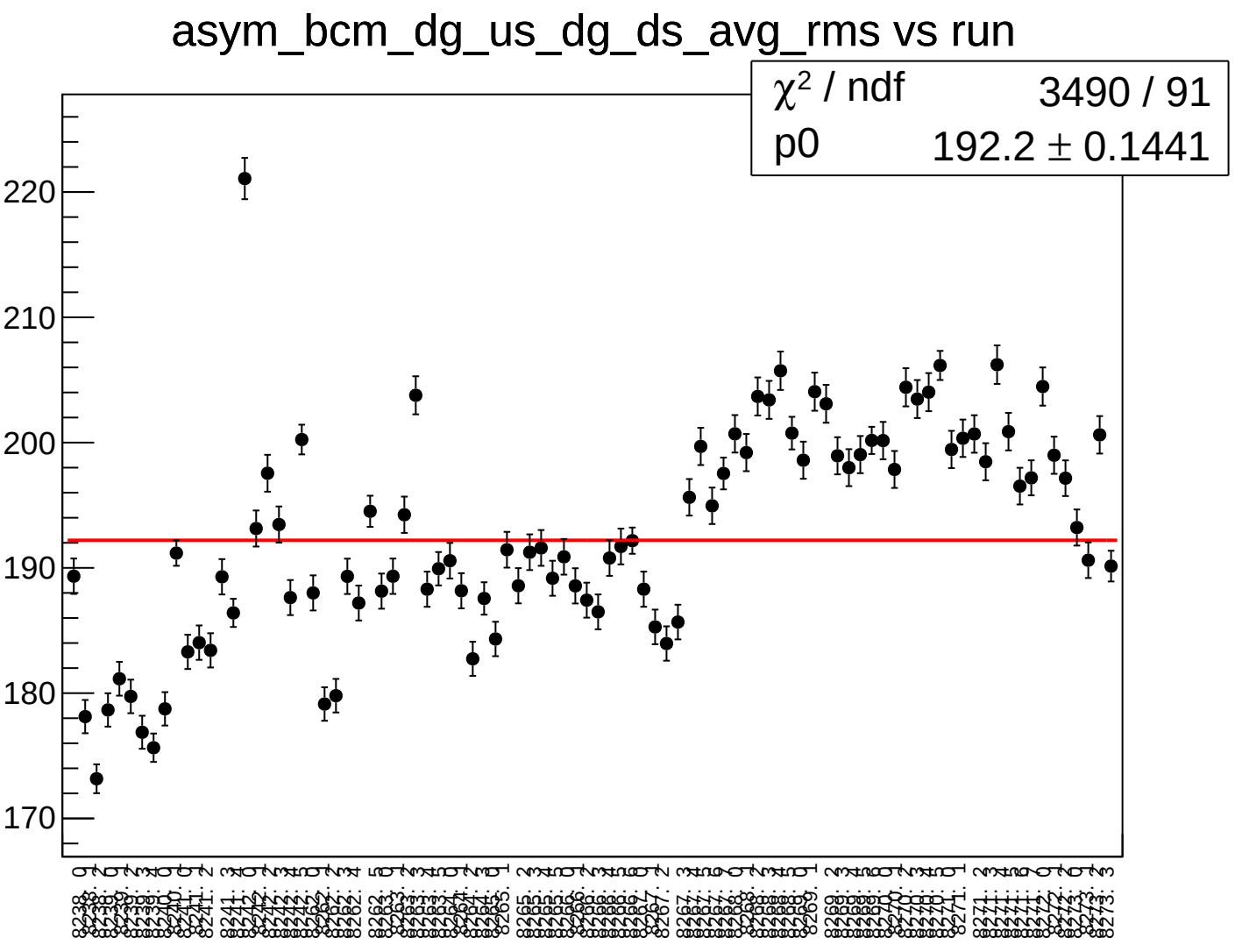

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 3589 / 91
p0 192.4 ± 0.1443
220
210
200
190
180
170

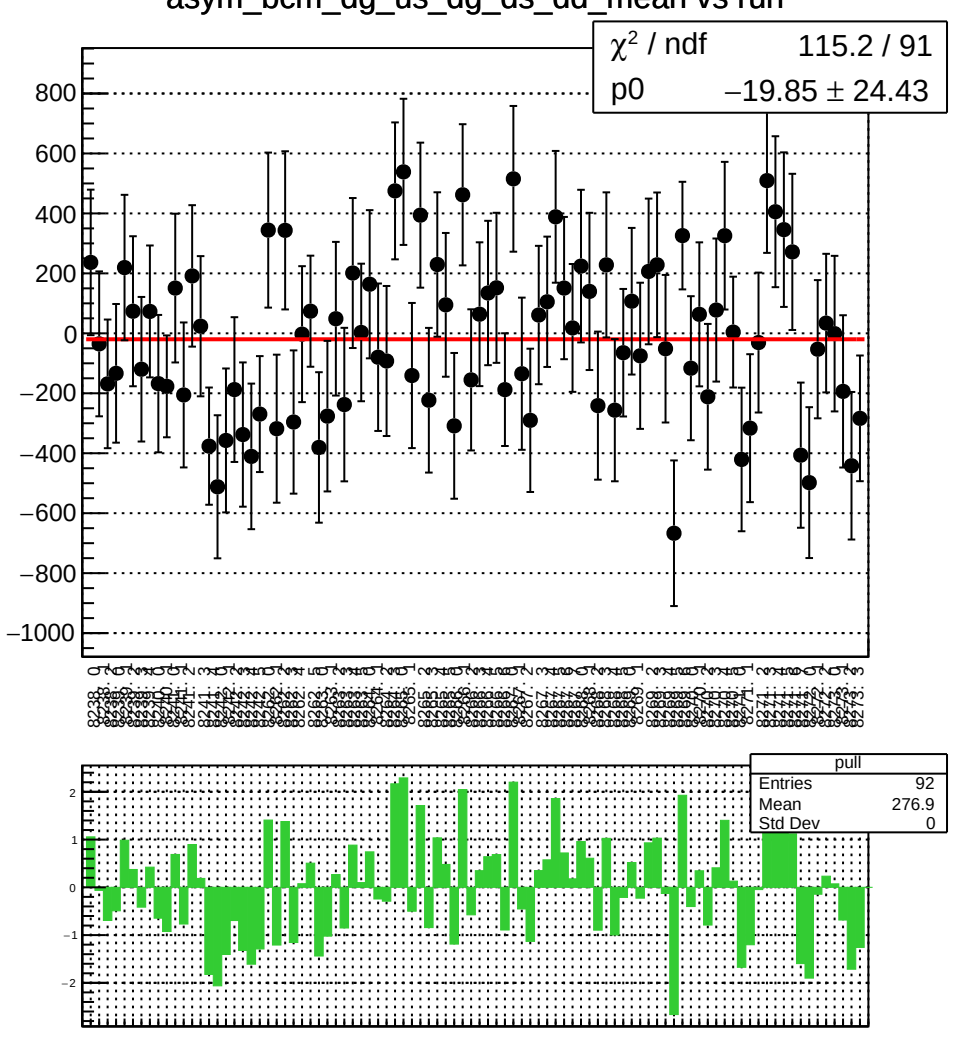

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 78.28 / 91
p0 19.54 ± 10.23
pull
Entries 92
Mean −22.23
Std Dev 0

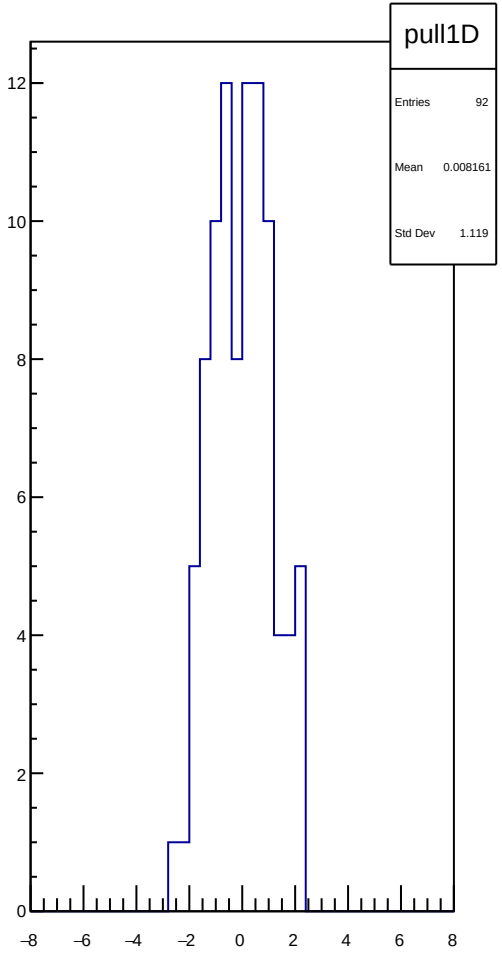

pull1D
Entries 92
Mean 0.01606
Std Dev 0.9223

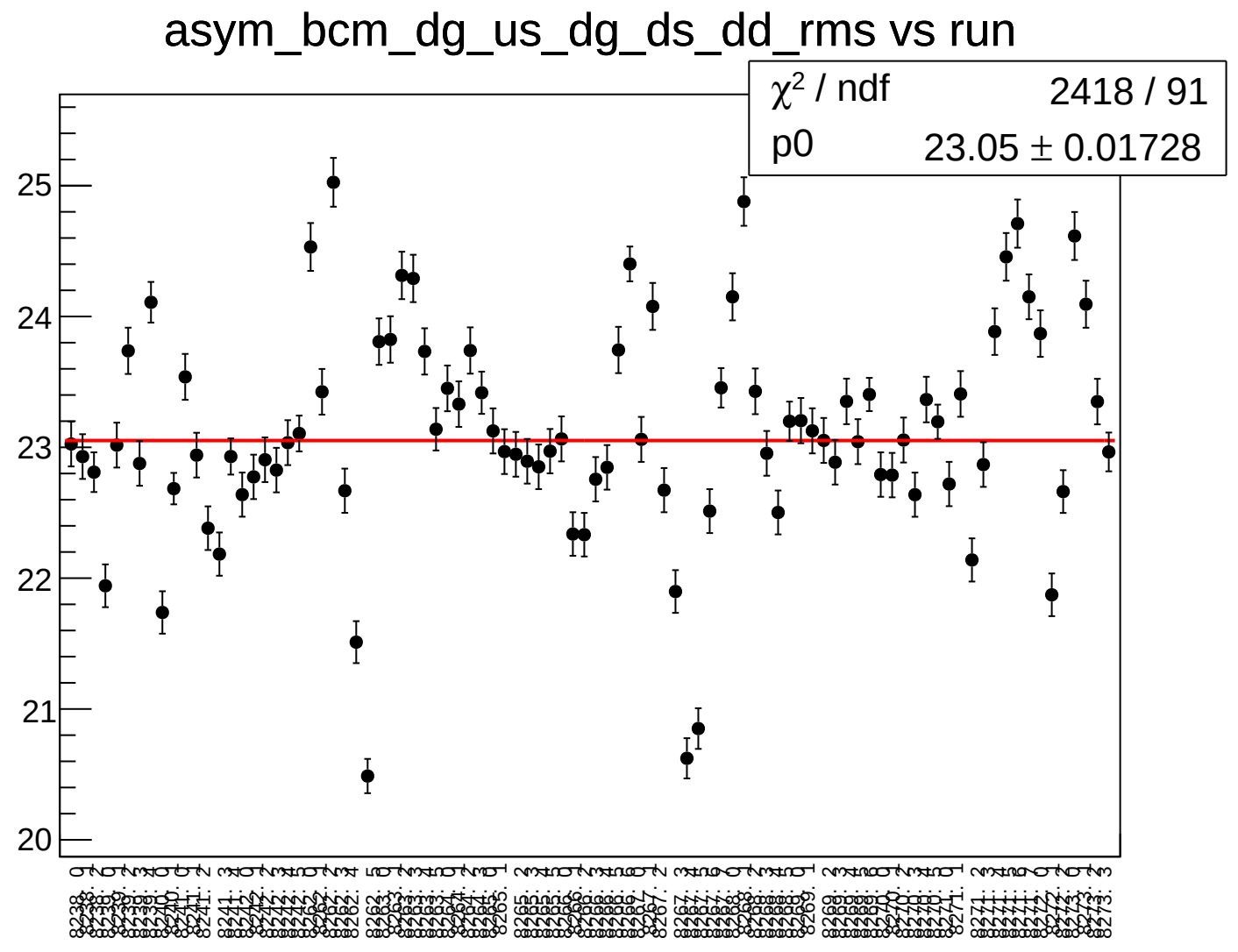

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 2690 / 91
p0 9.655 ± 0.007236
11
10.5
10
9.5
9

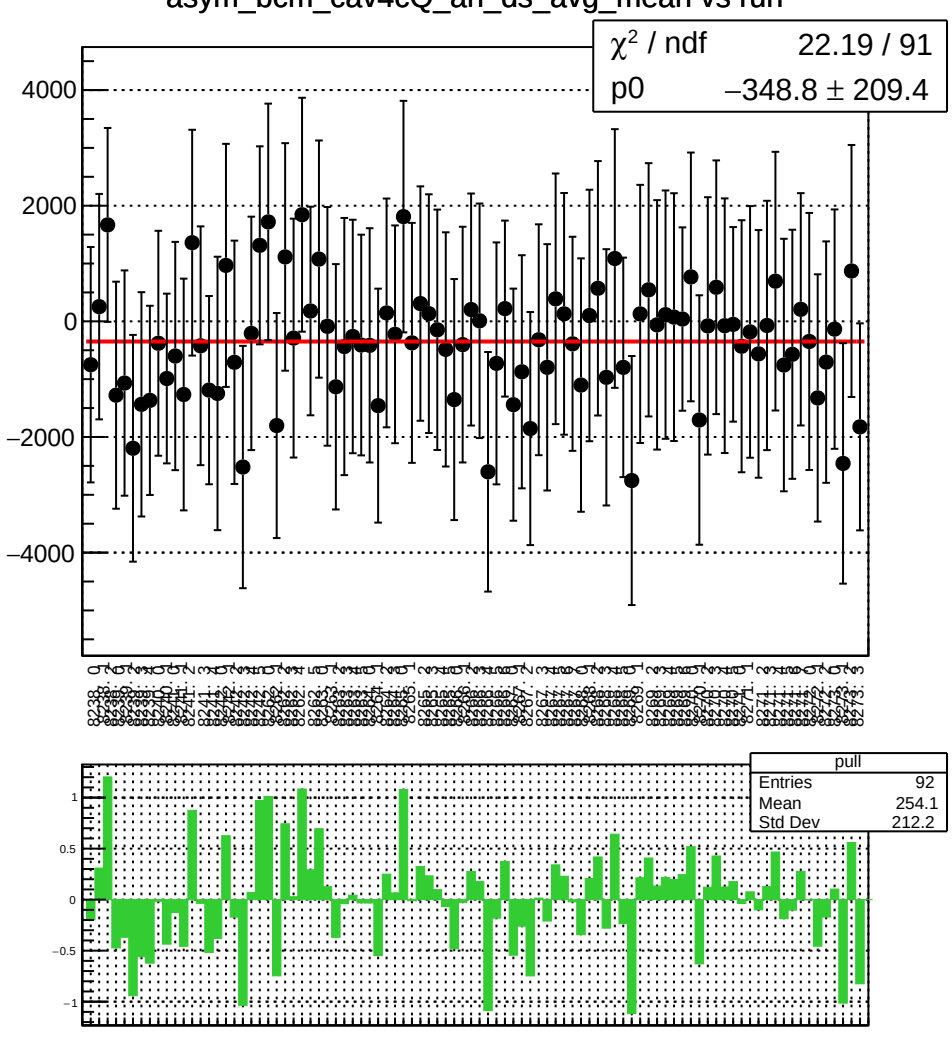

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 21.77 / 91
p0 −393.8 ± 203.8
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 272.2
Std Dev 181.7
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.0006367
Std Dev 0.4865
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

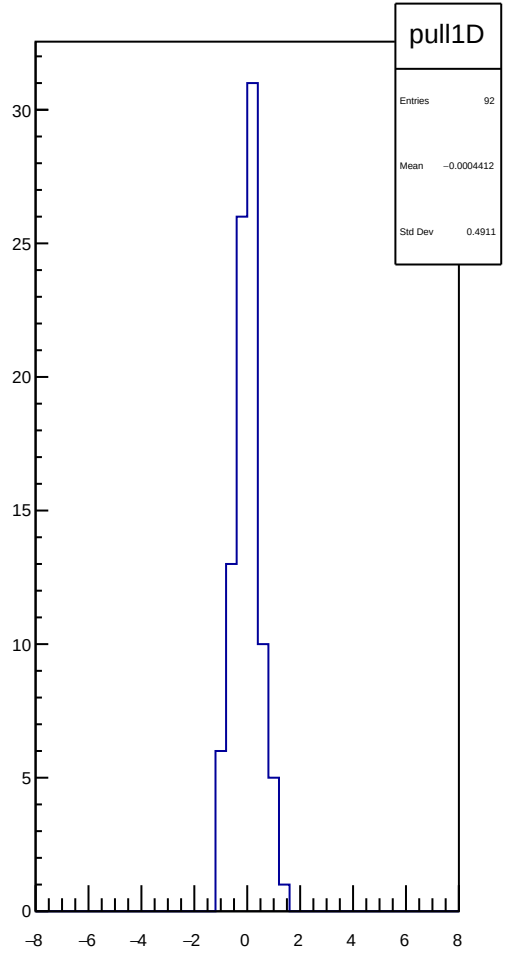

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 3490 / 91
p0 192.2 ± 0.1441
220
210
200
190
180
170

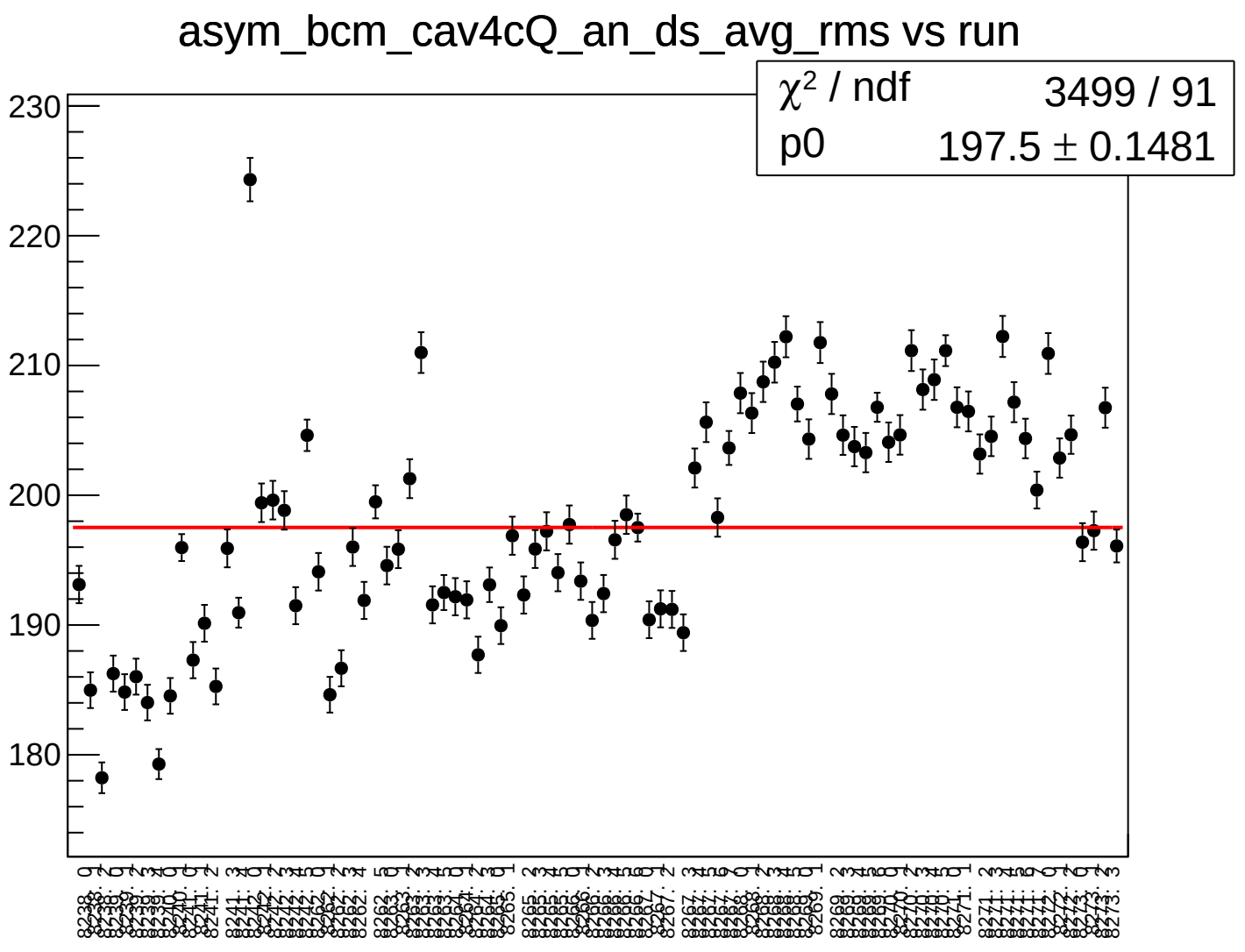

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 115.2 / 91
p0 −19.85 ± 24.43
pull
Entries 92
Mean 276.9
Std Dev 0

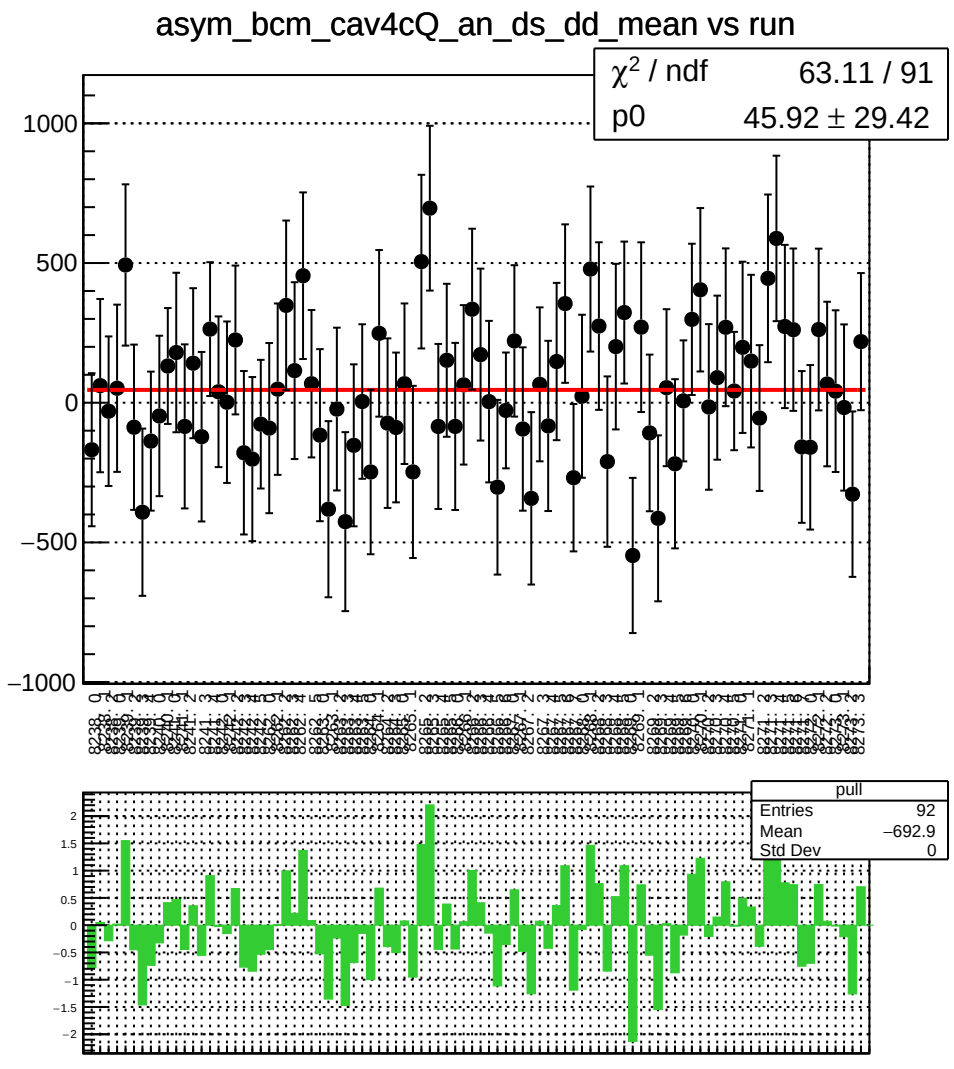

pull1D
Entries 92
Mean 0.008161
Std Dev 1.119

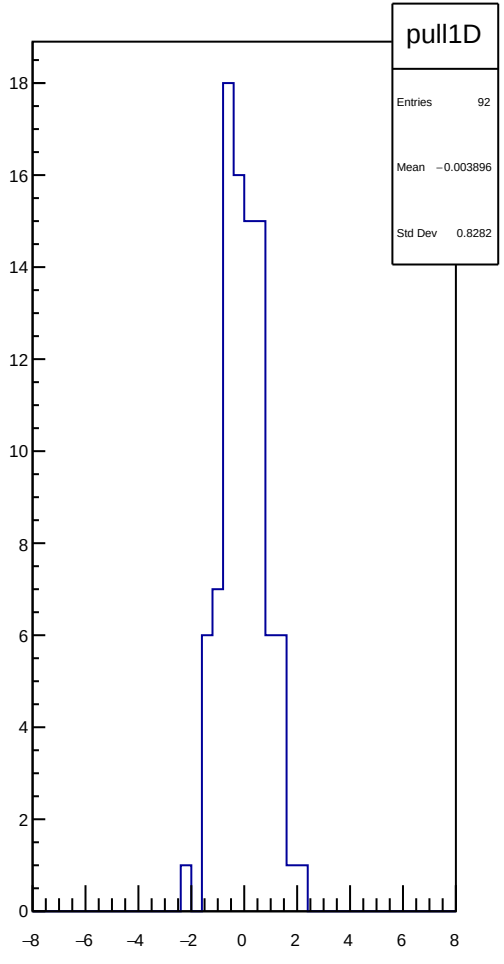

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2418 / 91
p0 23.05 ± 0.01728
25
24
23
22
21
20

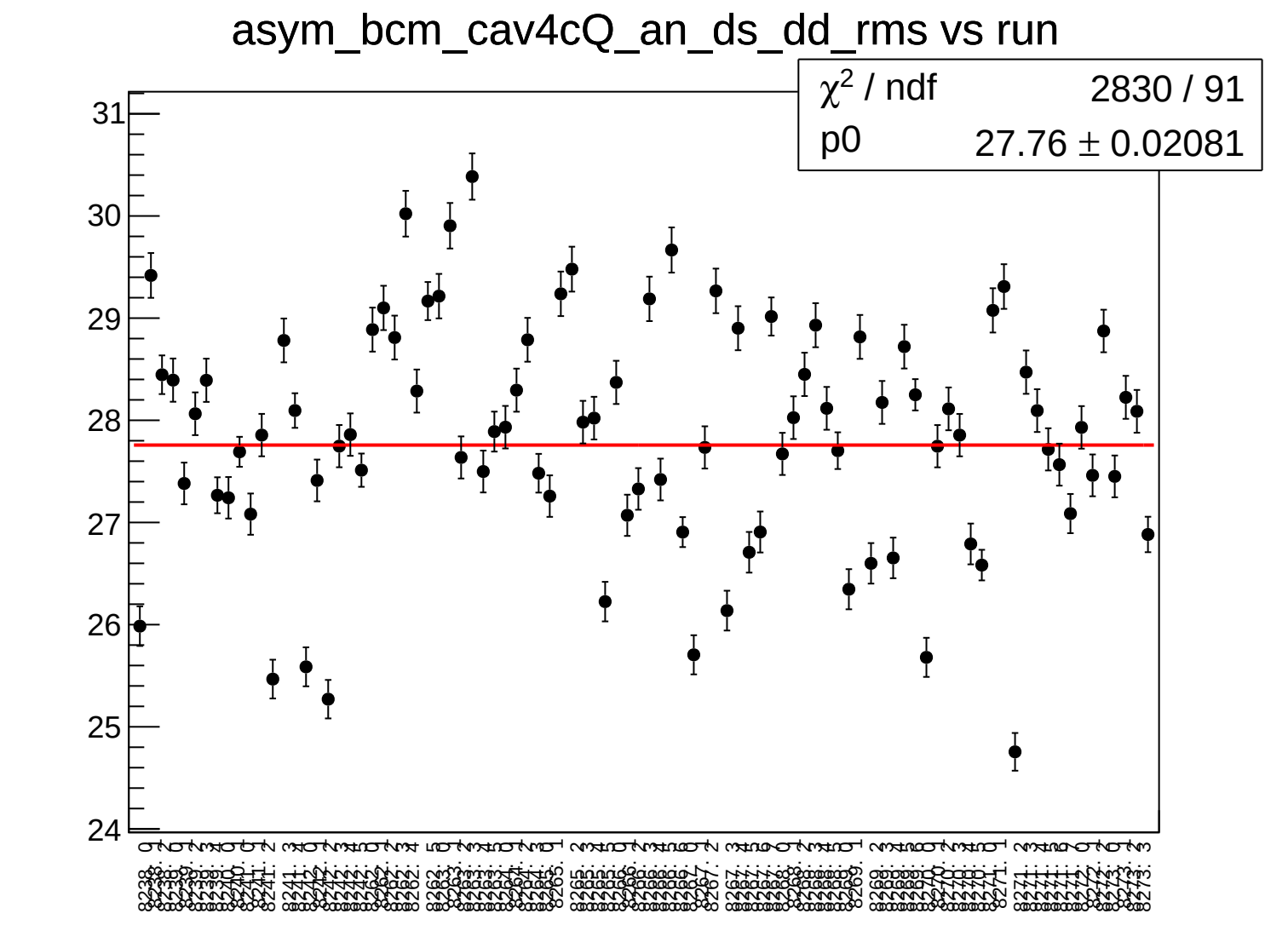

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 22.19 / 91
p0 −348.8 ± 209.4
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 254.1
Std Dev 212.2
1
0.5
0
−0.5
−1

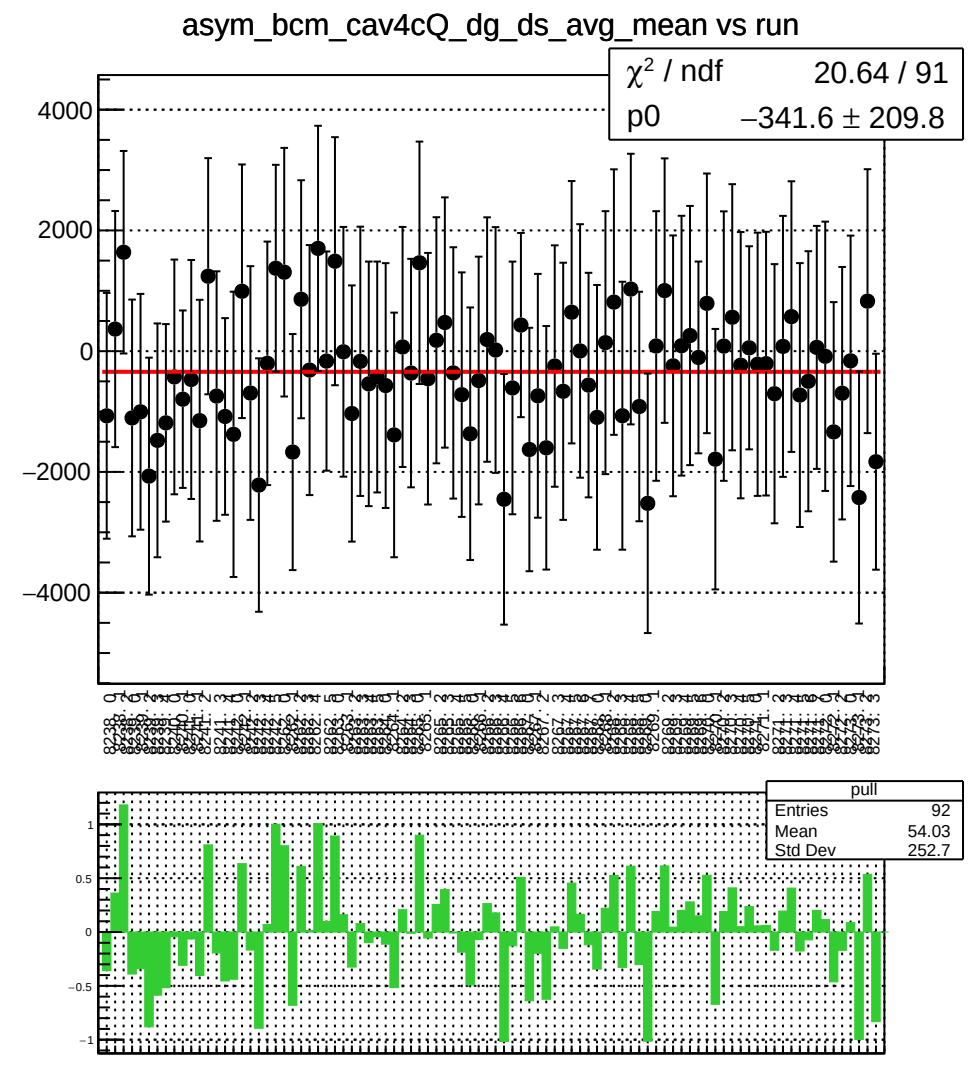

pull1D
Entries 92
Mean −0.0004412
Std Dev 0.4911
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

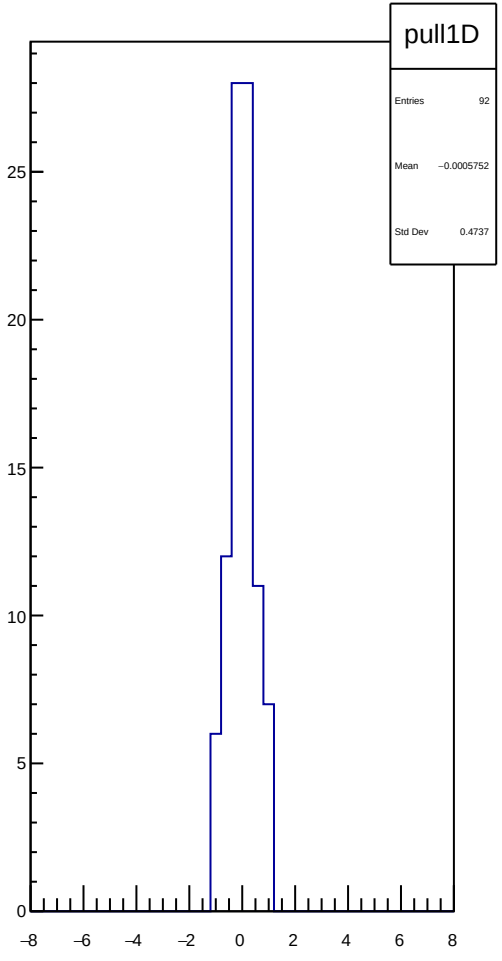

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 3499 / 91
p0 197.5 ± 0.1481
230
220
210
200
190
180

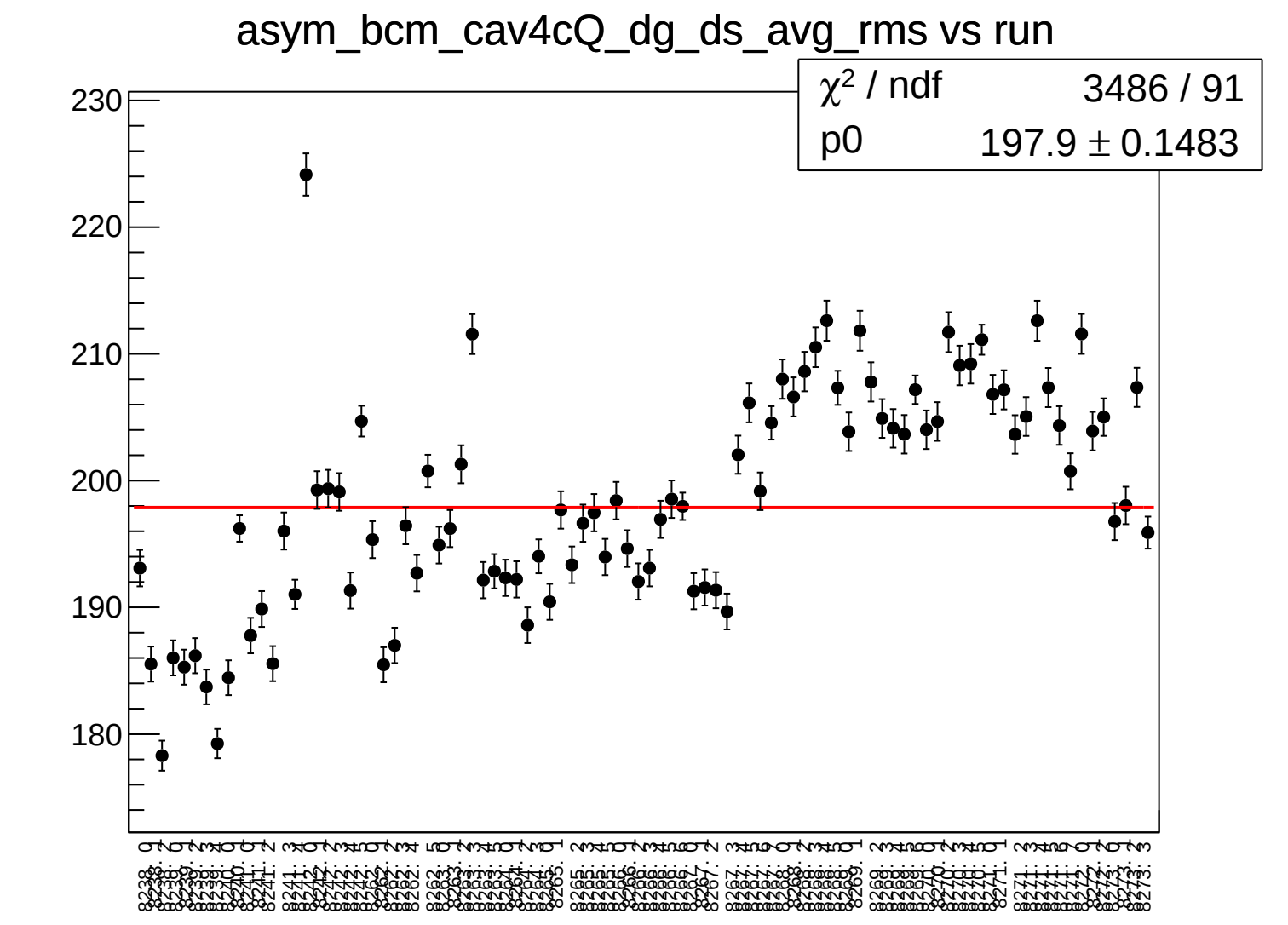

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 63.11 / 91
p0 45.92 ± 29.42
1000
500
0
−500
−1000
pull
Entries 92
Mean −692.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

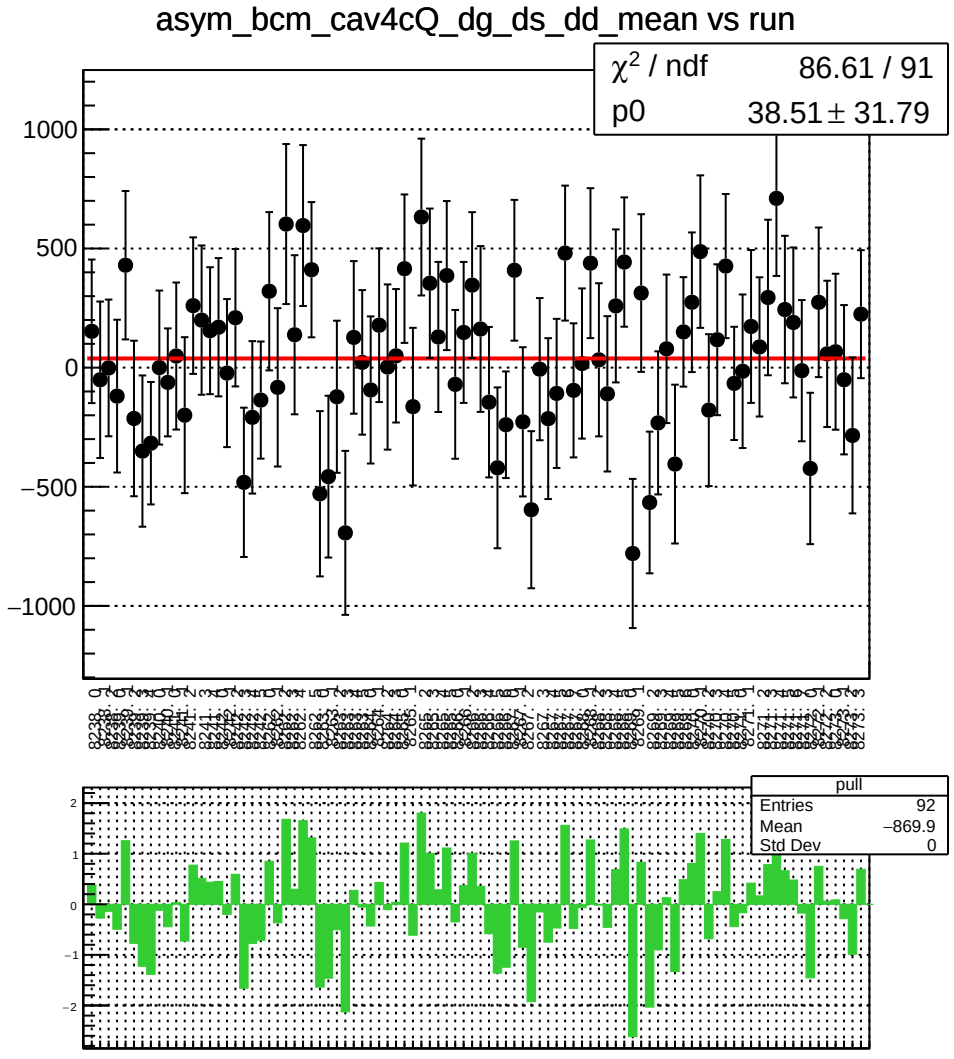

pull1D
Entries 92
Mean −0.003896
Std Dev 0.8282
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

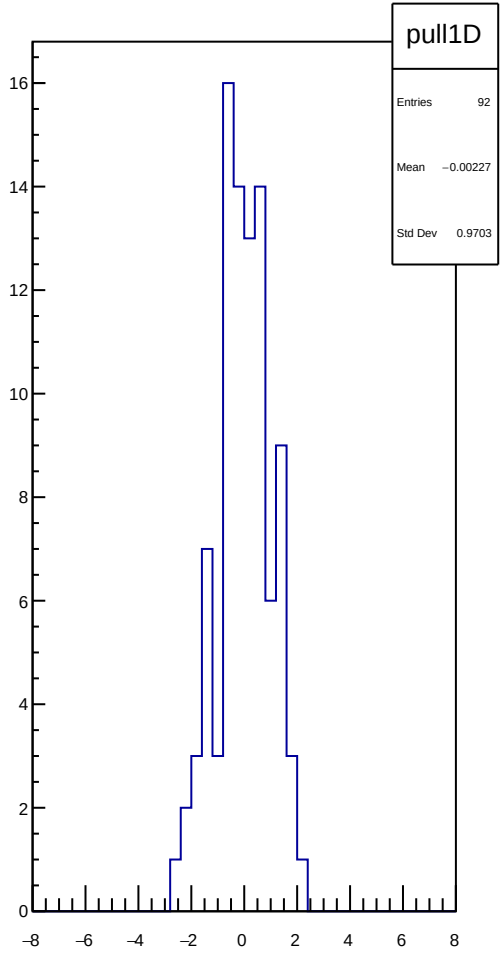

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 2830 / 91
p0 27.76 ± 0.02081
31
30
29
28
27
26
25
24

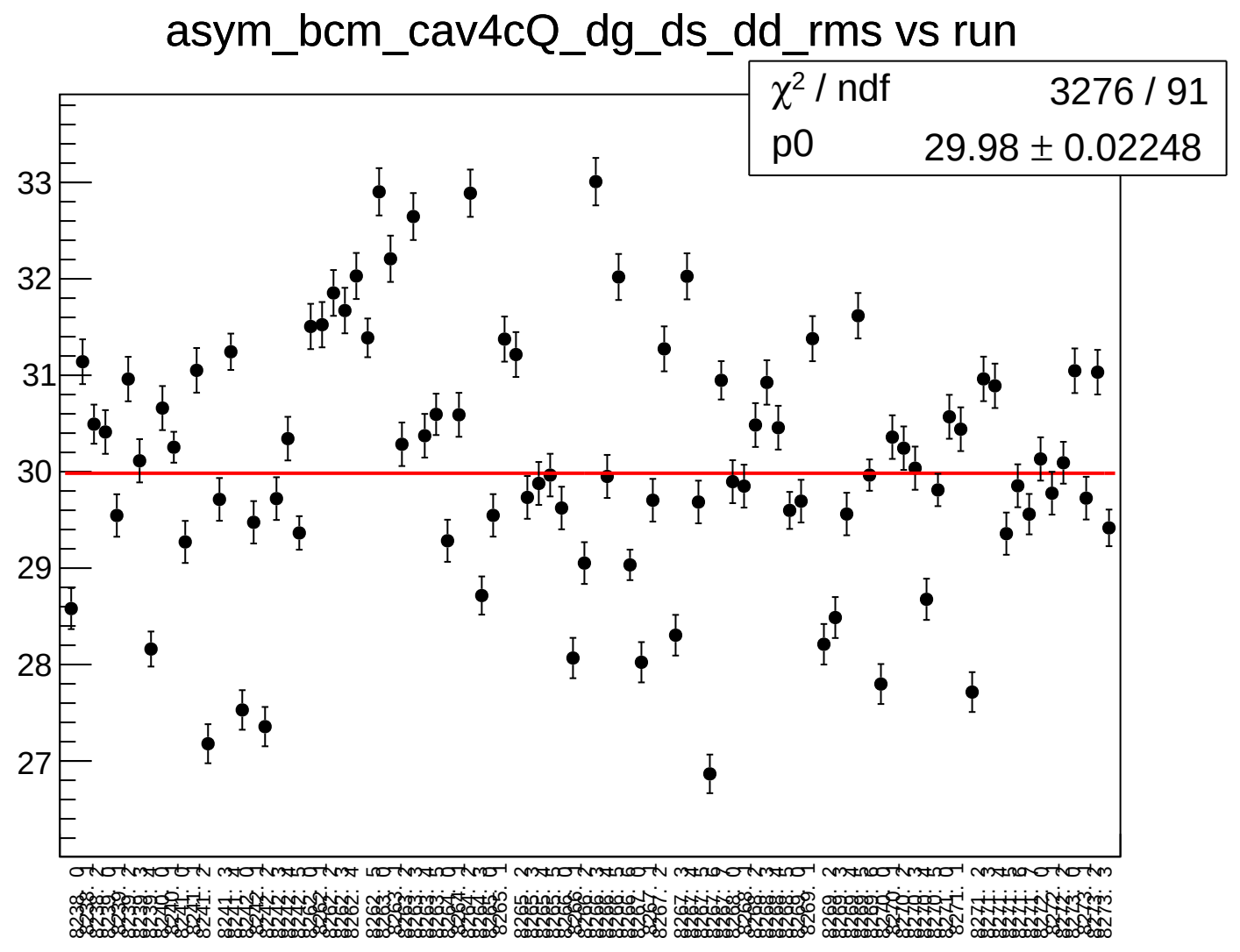

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 20.64 / 91
p0 −341.6 ± 209.8
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 54.03
Std Dev 252.7
1
0.5
0
−0.5
−1

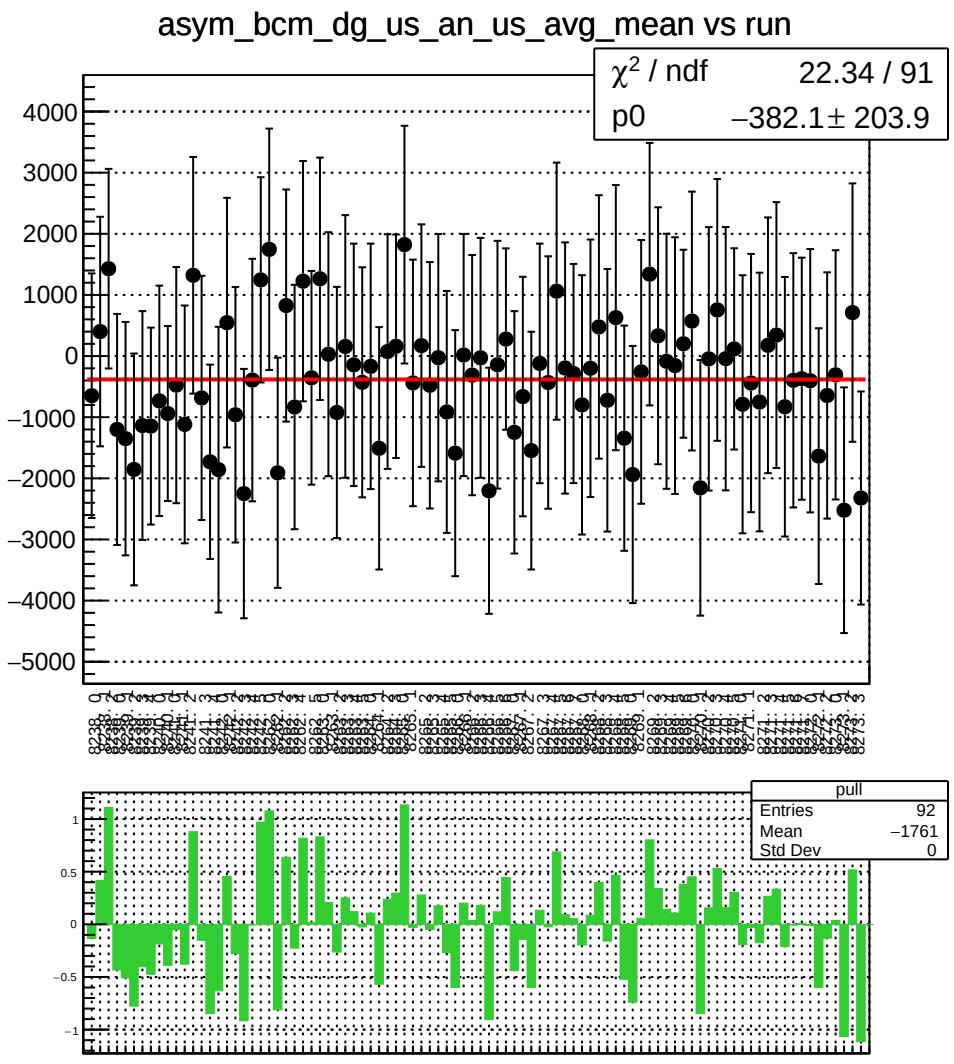

pull1D
Entries 92
Mean −0.0005752
Std Dev 0.4737
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

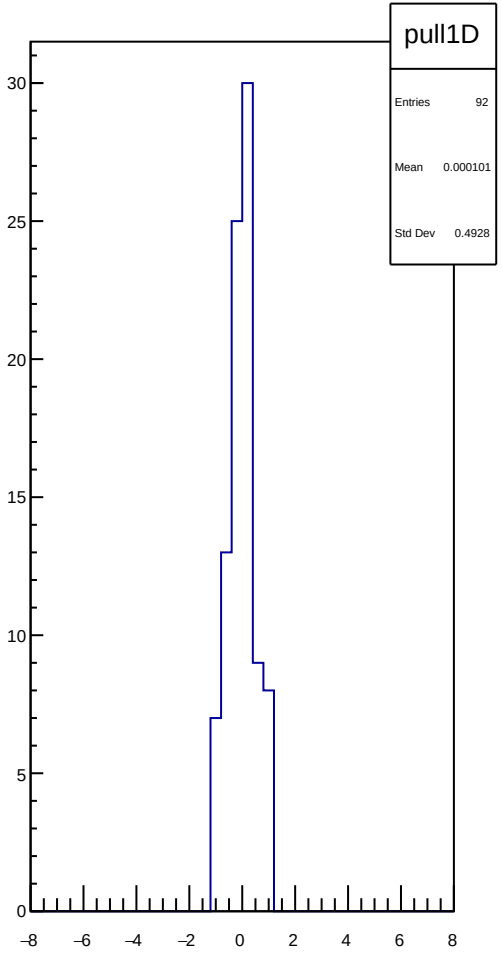

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 3486 / 91
p0 197.9 ± 0.1483
230
220
210
200
190
180

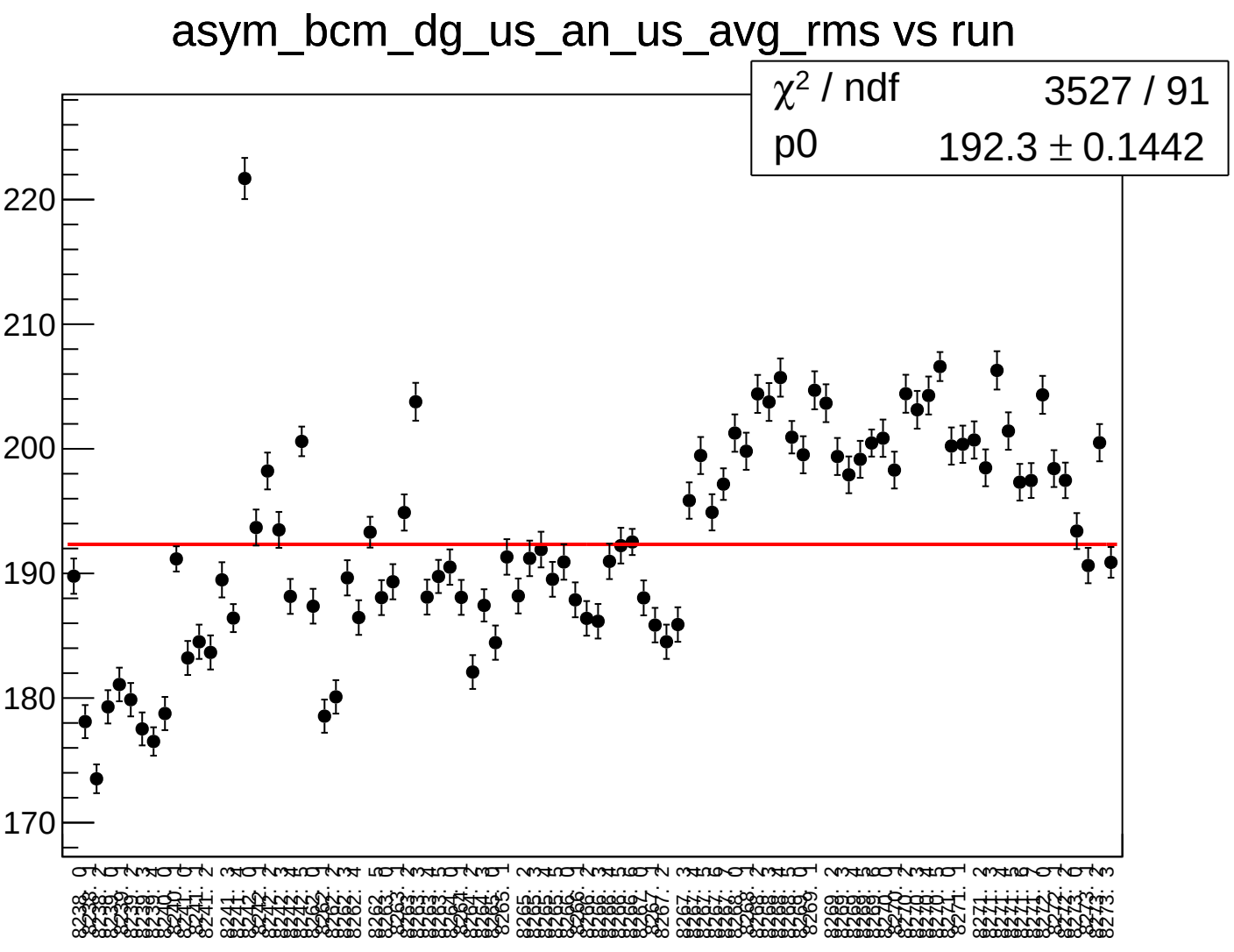

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 86.61 / 91
p0 38.51 ± 31.79
1000
500
0
−500
−1000
pull
Entries 92
Mean −869.9
Std Dev 0
2
1
0
−1
−2

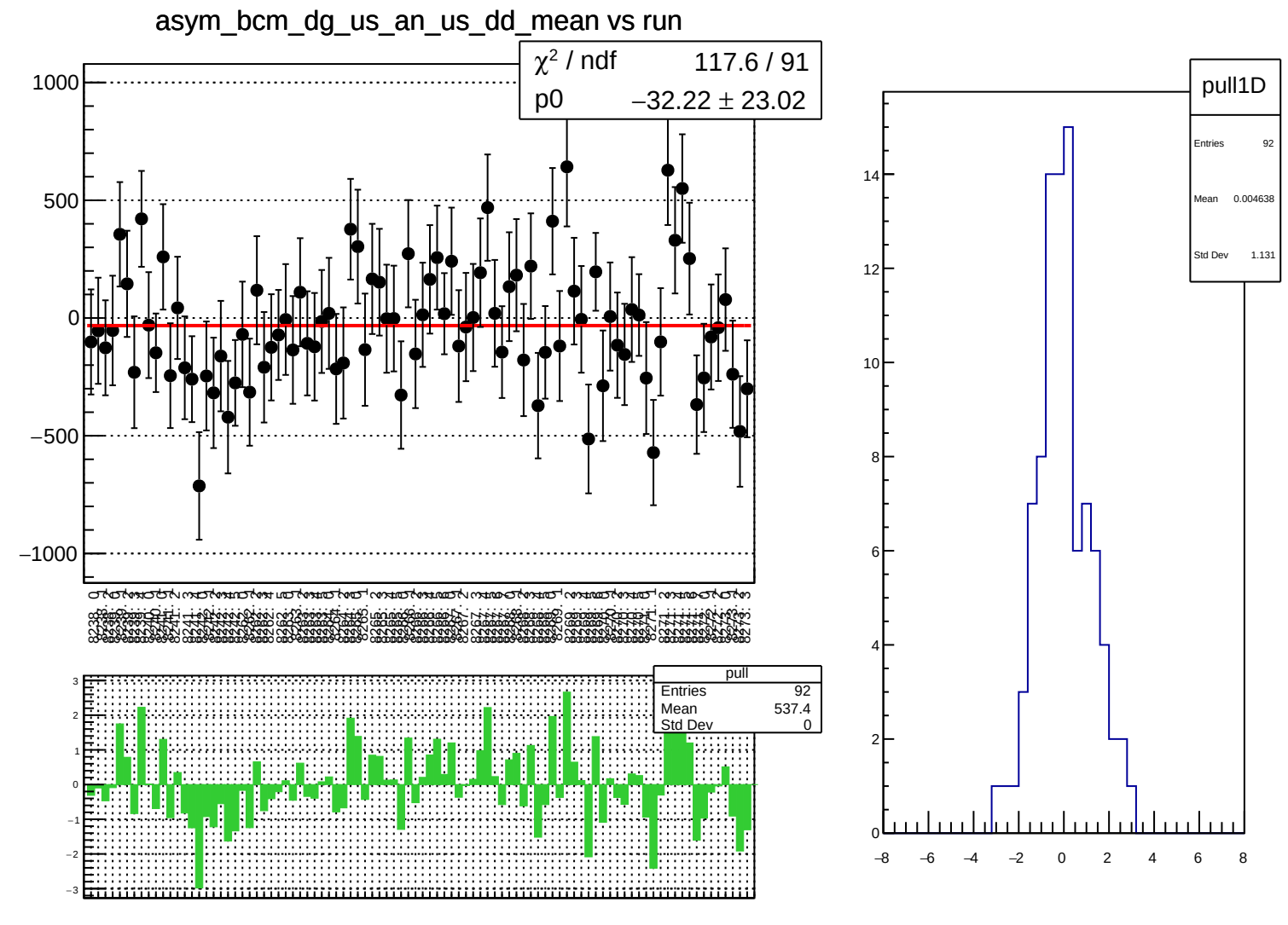

pull1D
Entries 92
Mean −0.00227
Std Dev 0.9703
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

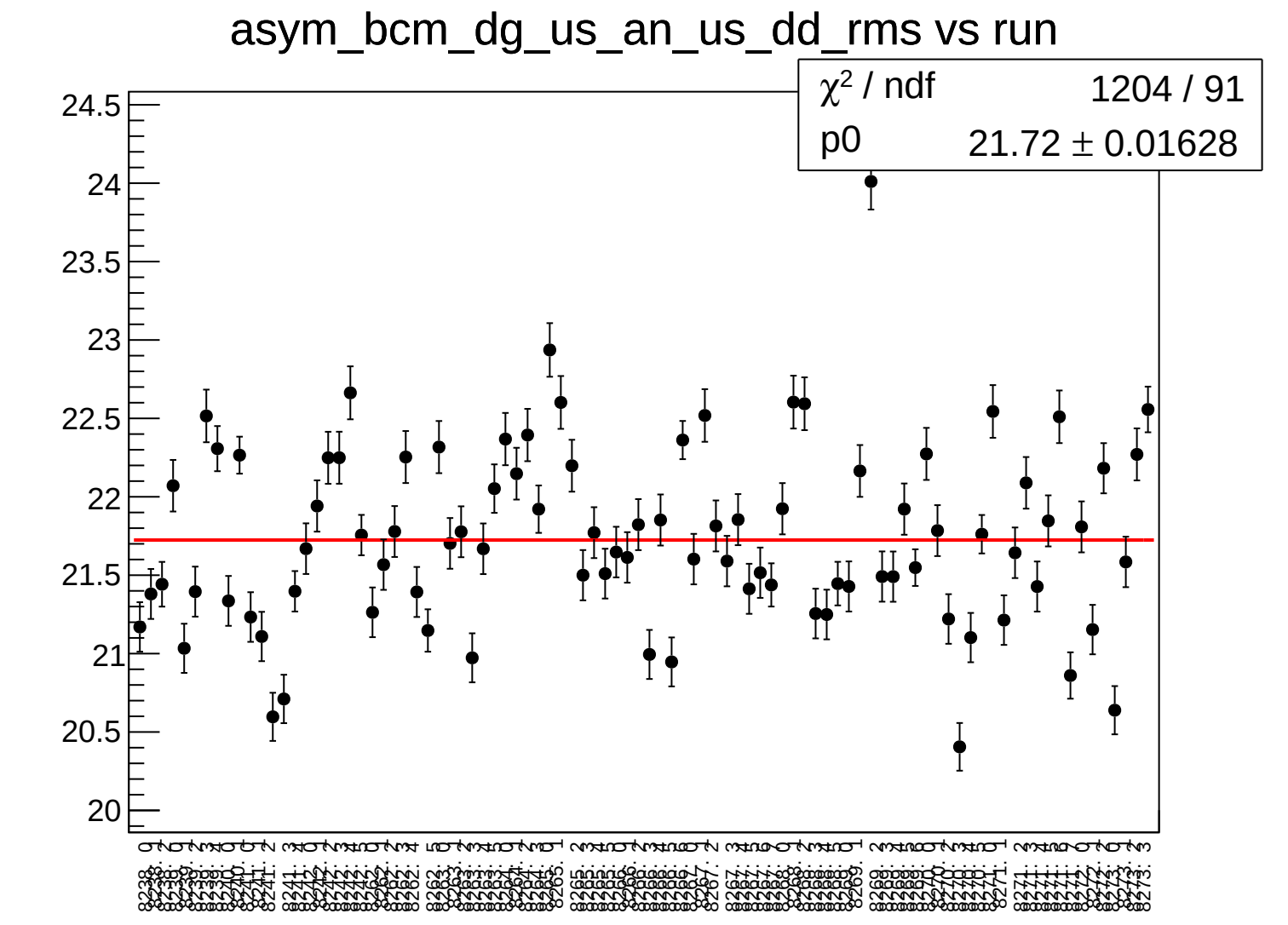

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 3276 / 91
p0 29.98 ± 0.02248
33
32
31
30
29
28
27

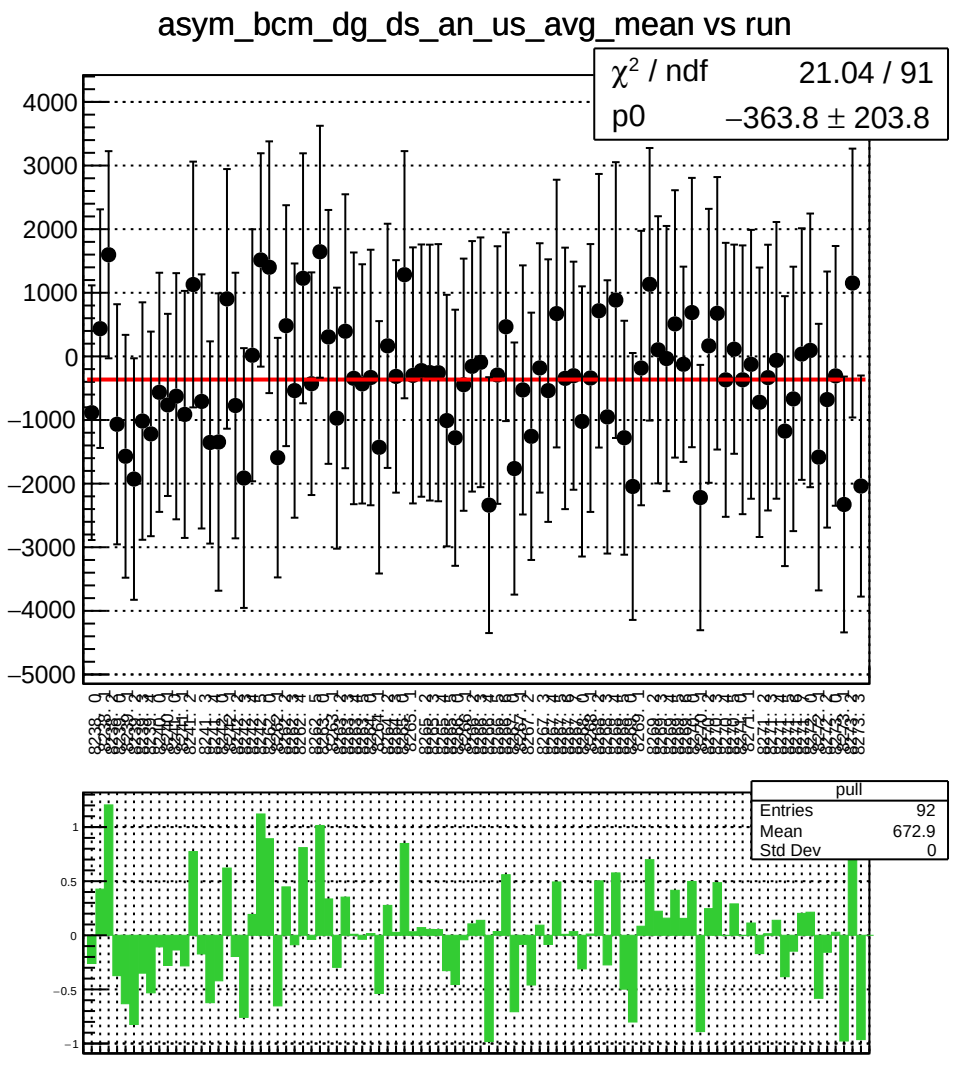

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 22.34 / 91
p0 −382.1± 203.9
pull
Entries 92
Mean −1761
Std Dev 0

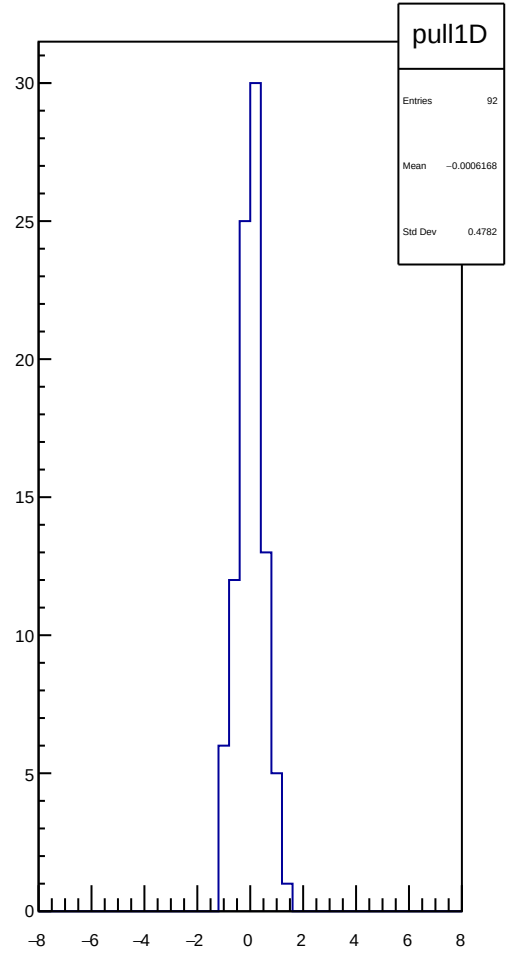

pull1D
Entries 92
Mean 0.000101
Std Dev 0.4928

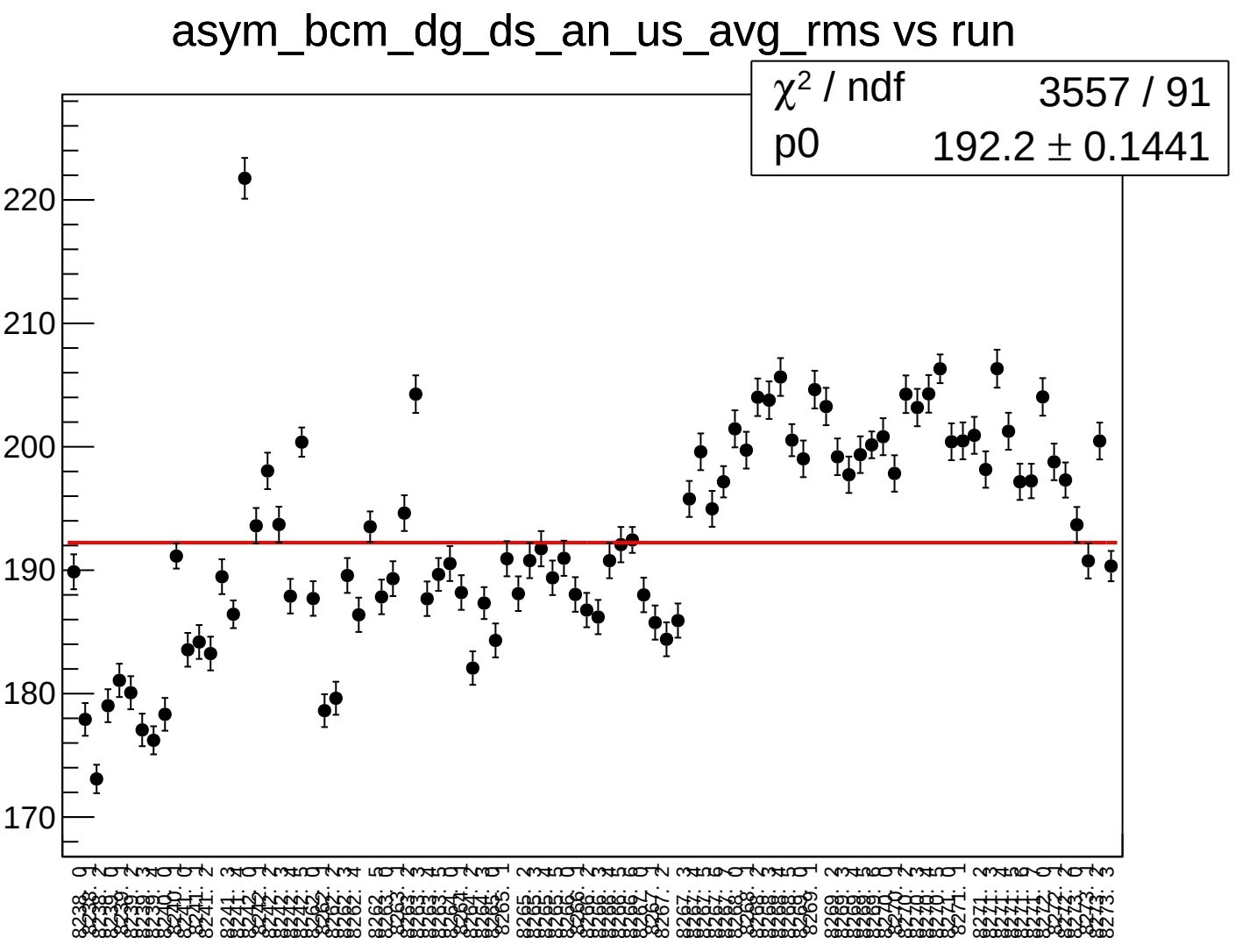

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 3527 / 91
p0 192.3 ± 0.1442
220
210
200
190
180
170

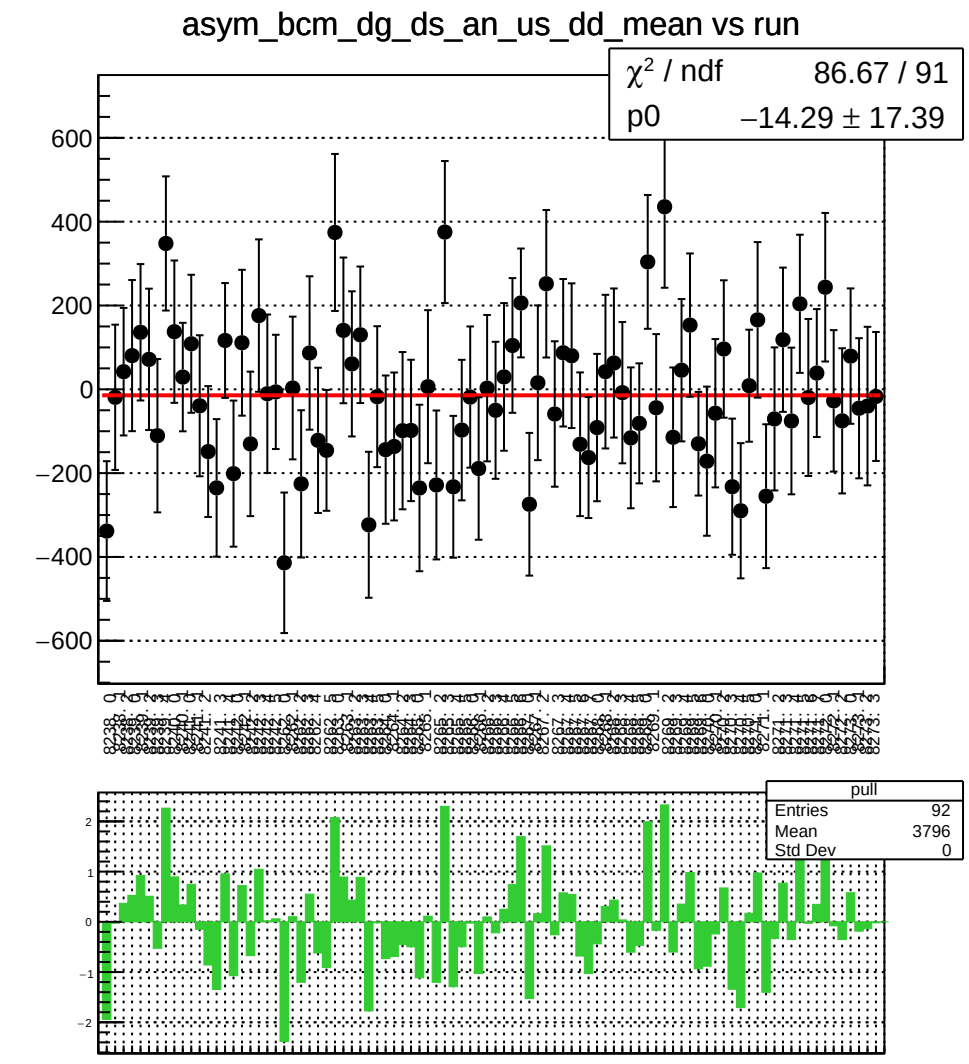

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 117.6 / 91
p0 −32.22 ± 23.02
1000
500
0
−500
−1000
pull
Entries 92
Mean 537.4
Std Dev 0
pull1D
Entries 92
Mean 0.004638
Std Dev 1.131

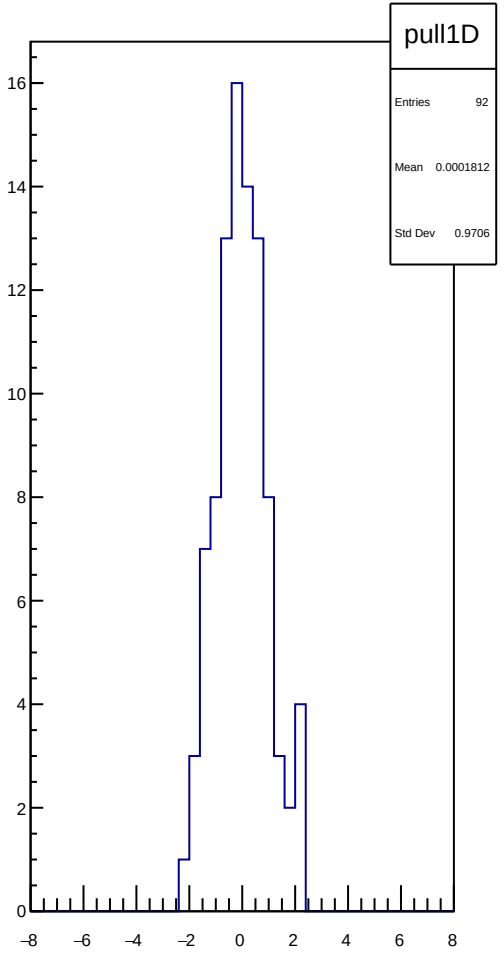

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 1204 / 91
p0 21.72 ± 0.01628
24.5
24
23.5
23
22.5
22
21.5
21
20.5
20

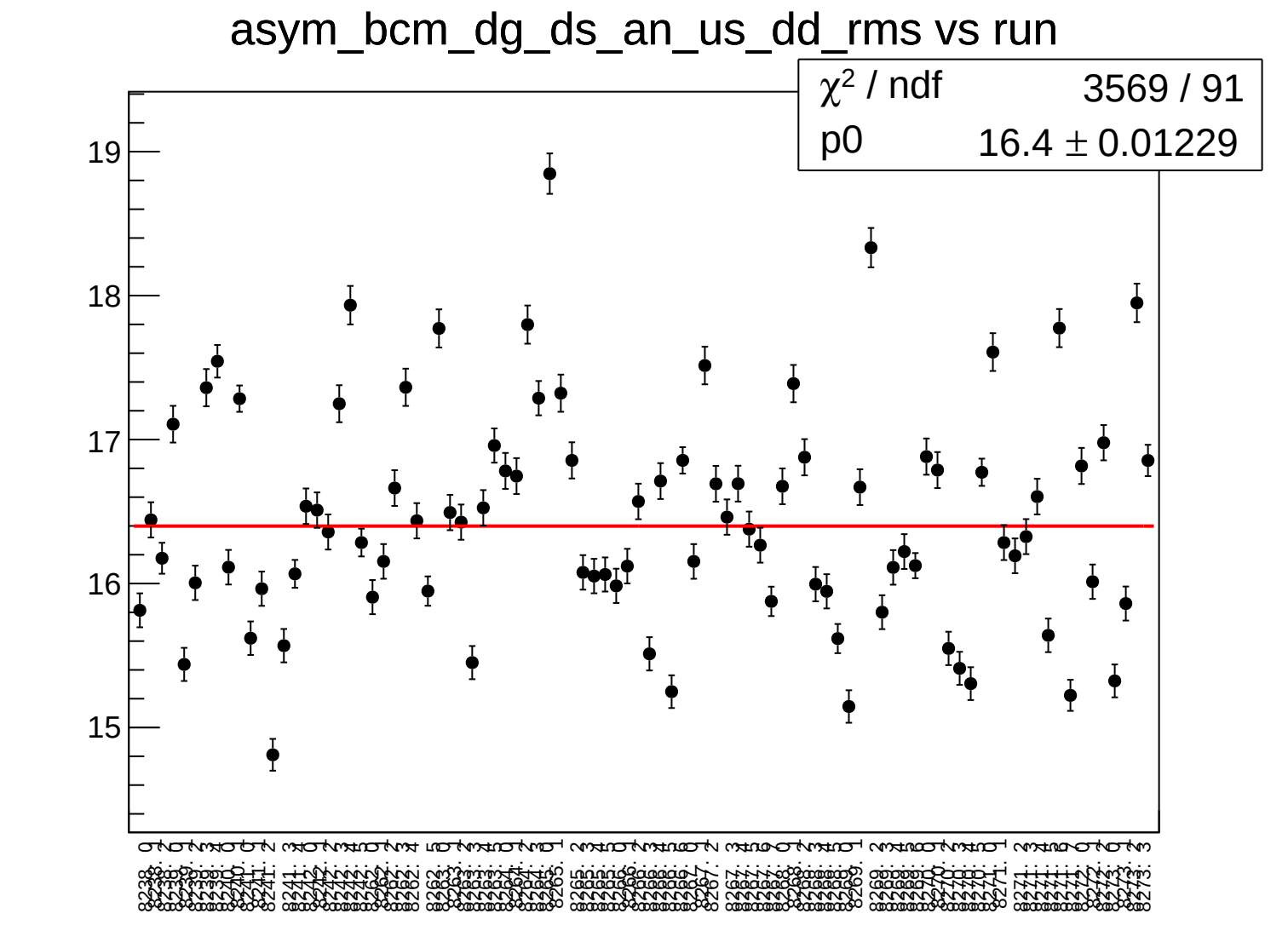

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 21.04 / 91
p0 −363.8 ± 203.8
pull
Entries 92
Mean 672.9
Std Dev 0

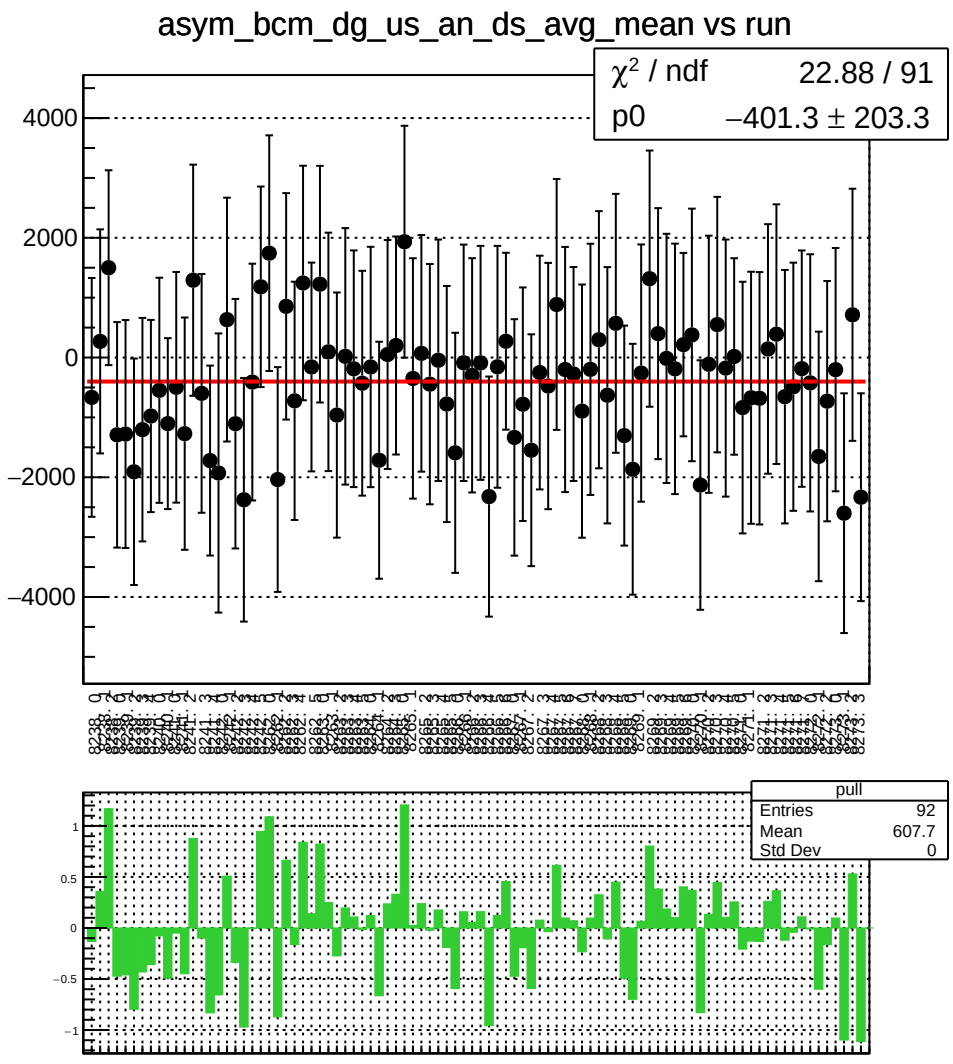

pull1D
Entries 92
Mean −0.0006168
Std Dev 0.4782

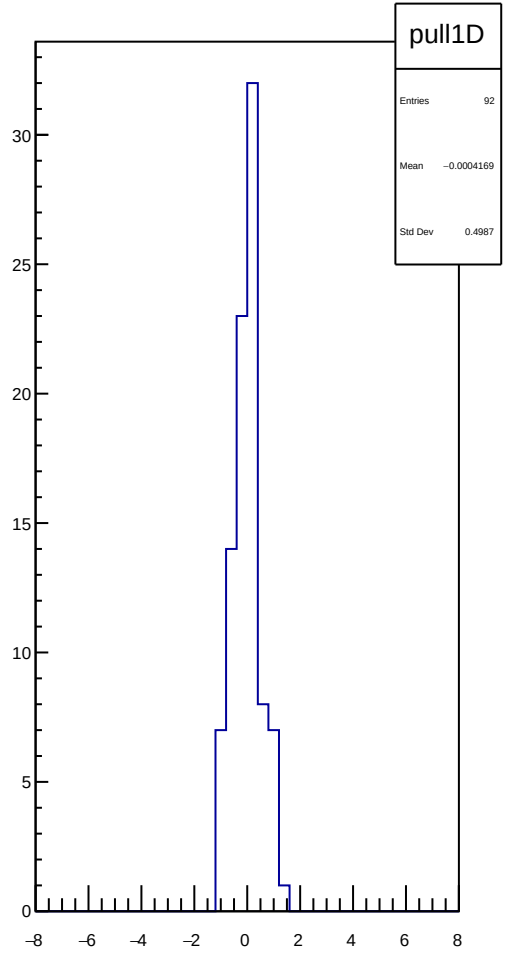

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 3557 / 91
p0 192.2 ± 0.1441
220
210
200
190
180
170

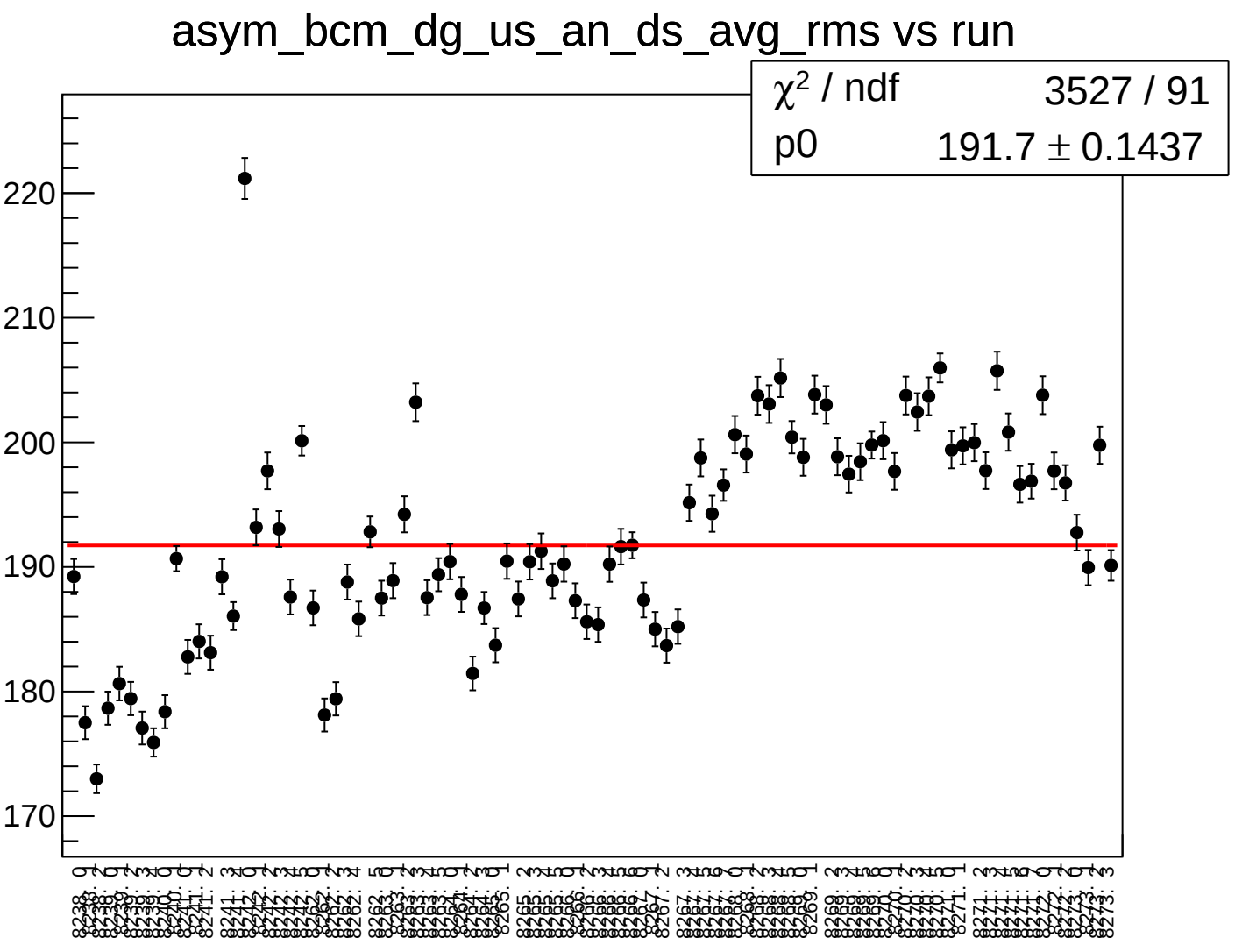

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 86.67 / 91
p0 −14.29 ± 17.39
pull
Entries 92
Mean 3796
Std Dev 0

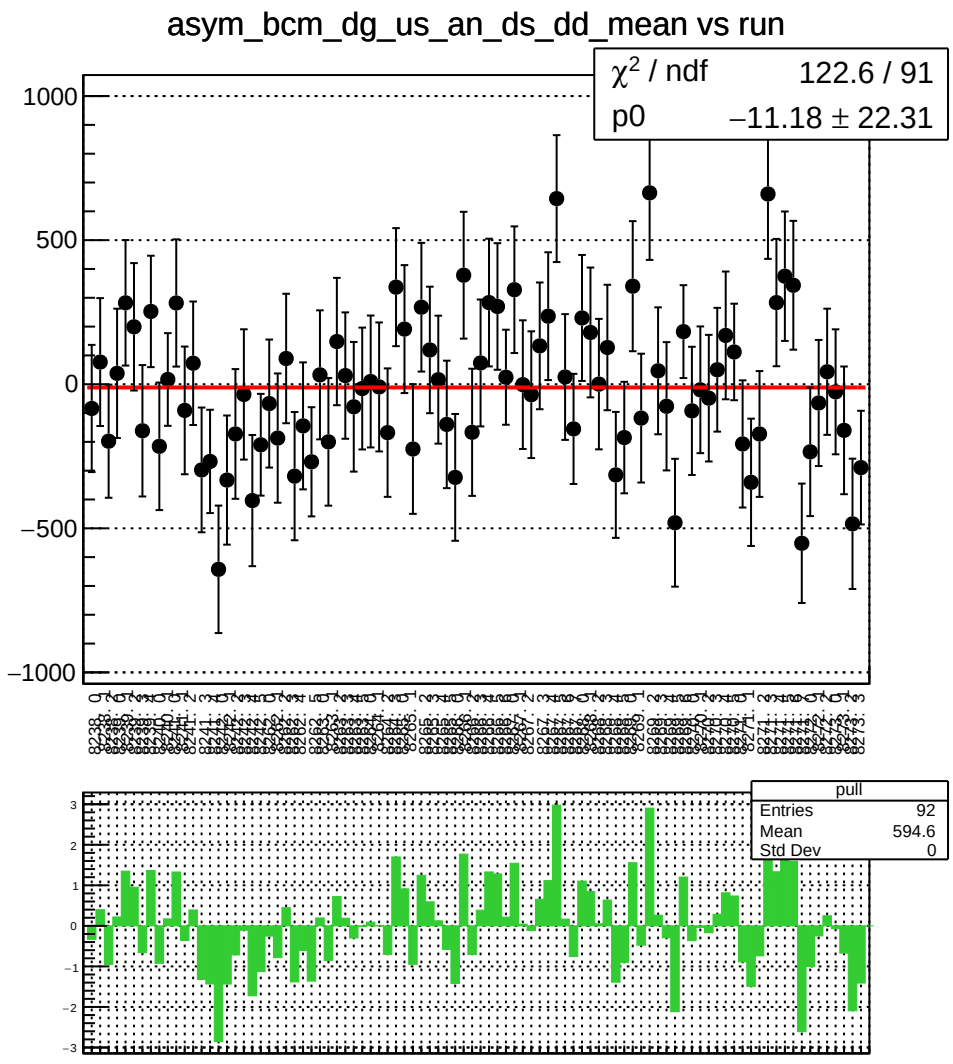

pull1D
Entries 92
Mean 0.0001812
Std Dev 0.9706

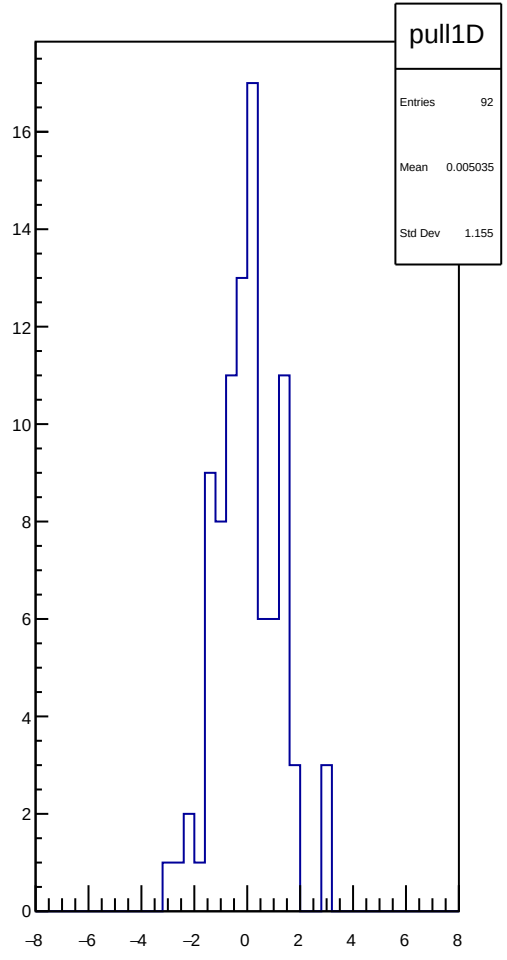

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 3569 / 91
p0 16.4 ± 0.01229
19
18
17
16
15

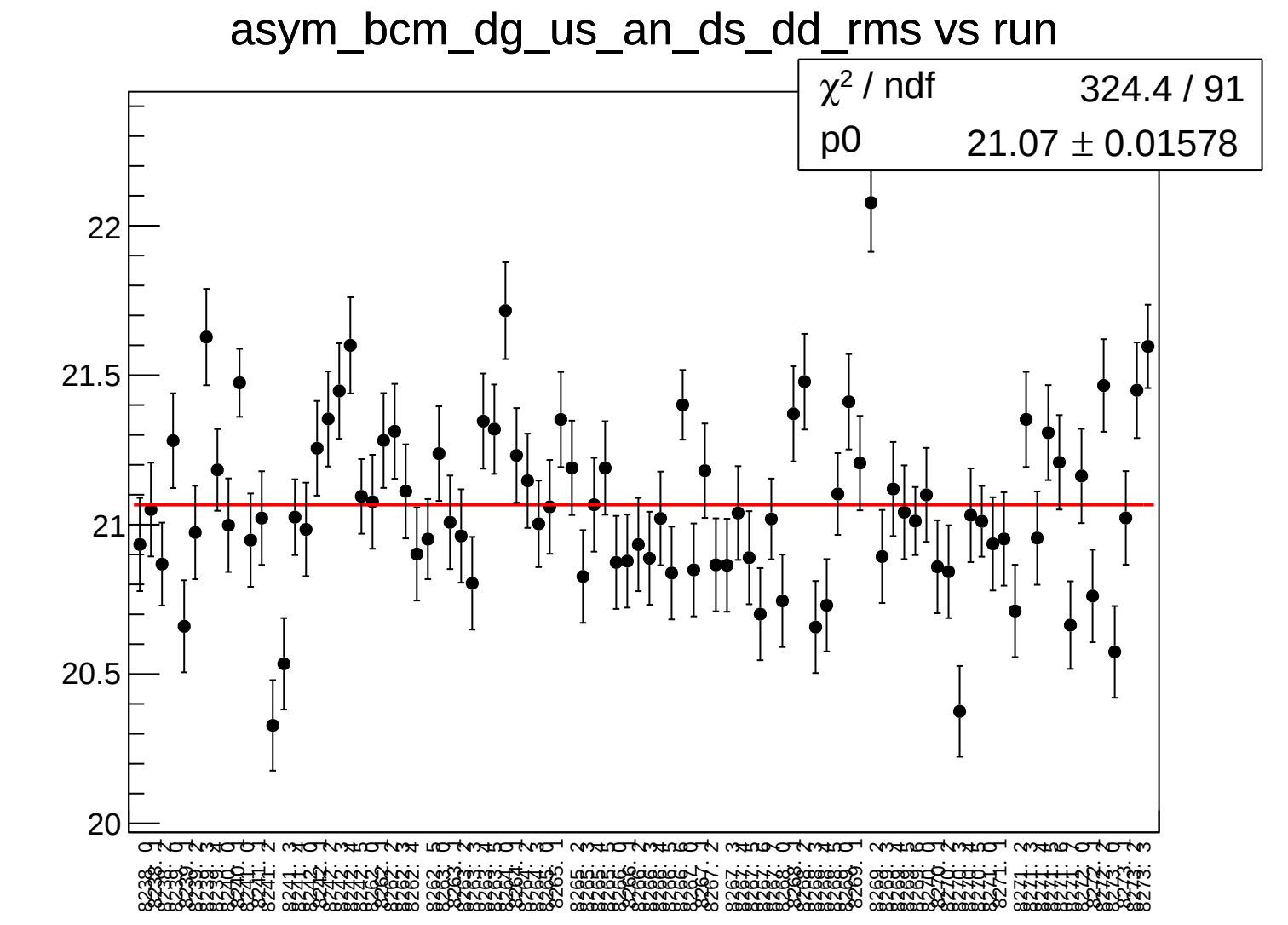

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 22.88 / 91
p0 −401.3 ± 203.3
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 607.7
Std Dev 0
1
0.5
0
−0.5
−1

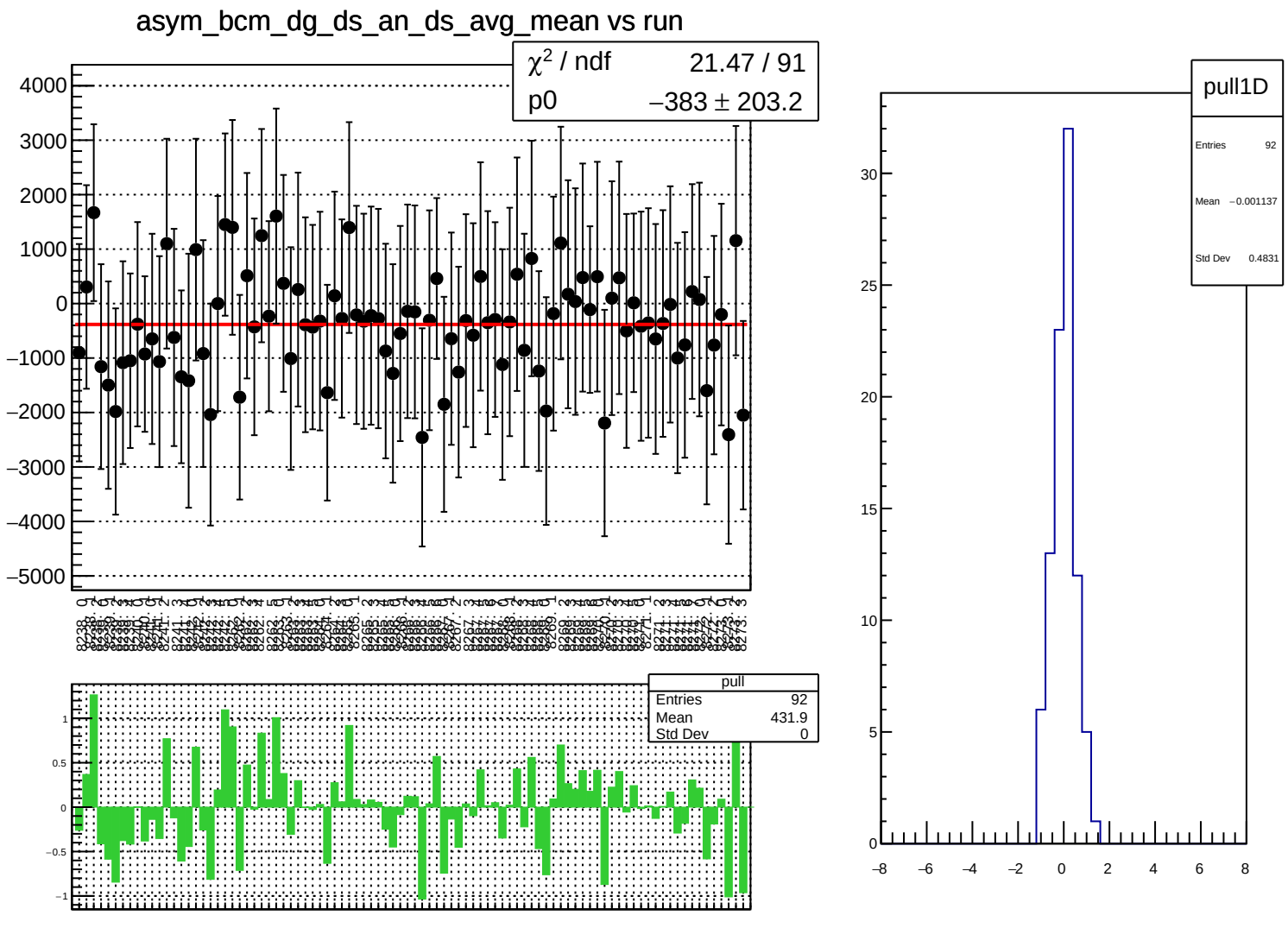

pull1D
Entries 92
Mean −0.0004169
Std Dev 0.4987
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

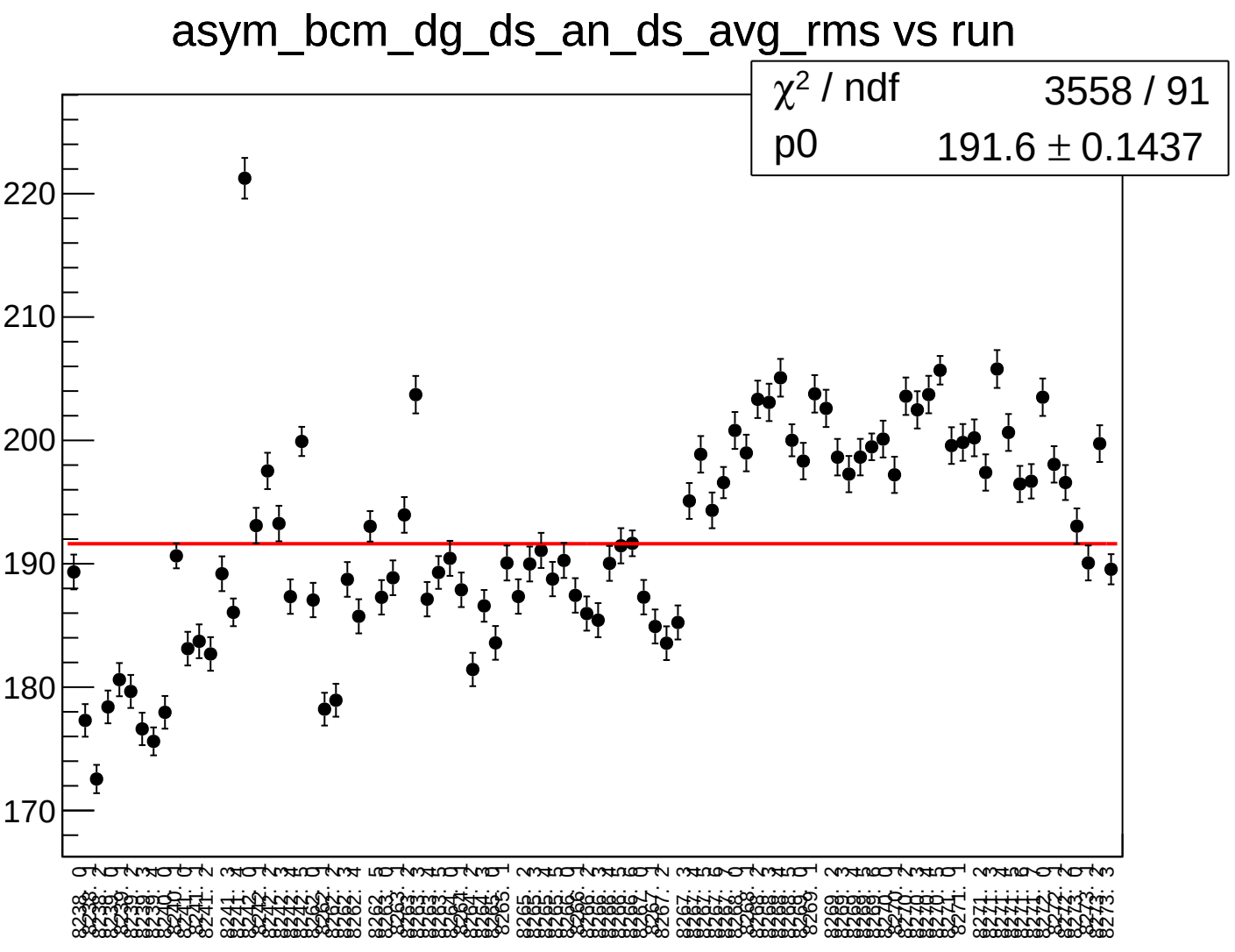

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 3527 / 91
p0 191.7 ± 0.1437
220
210
200
190
180
170

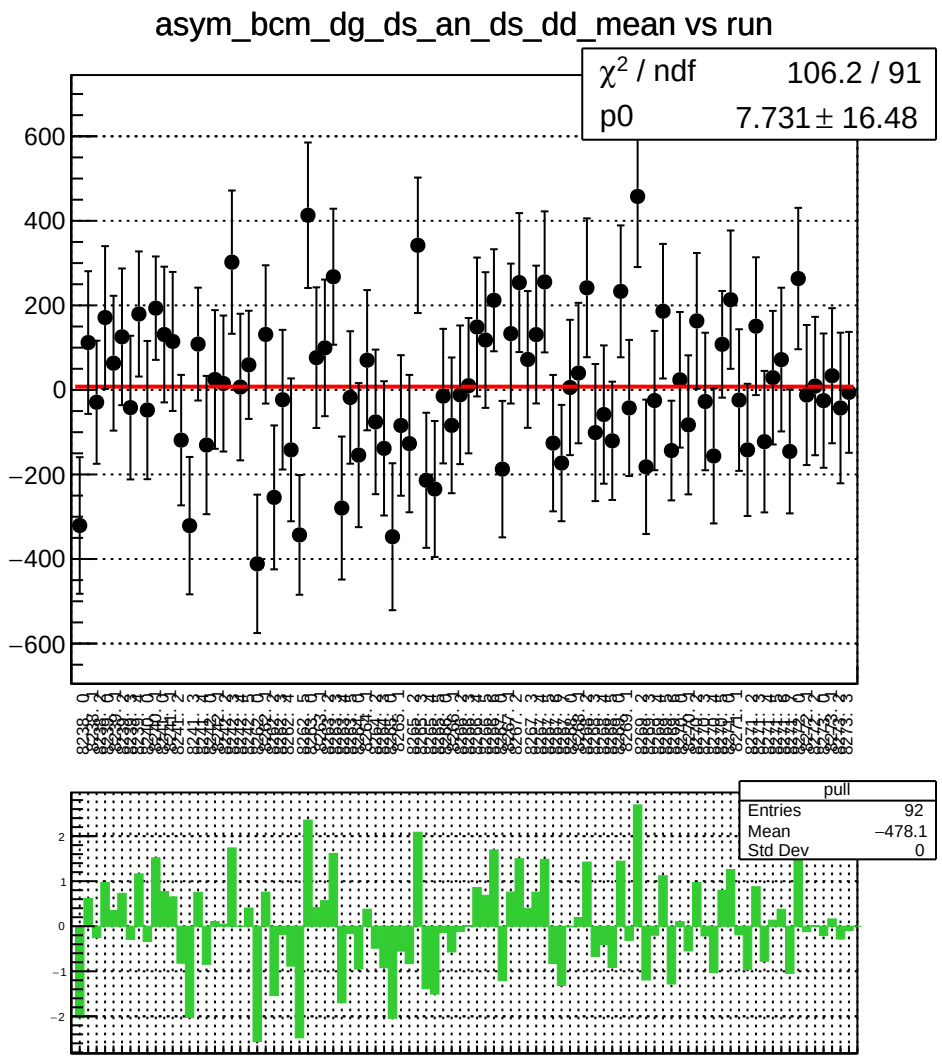

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 122.6 / 91
p0 −11.18 ± 22.31
1000
500
0
−500
−1000
pull
Entries 92
Mean 594.6
Std Dev 0
3
2
1
0
−1
−2
−3

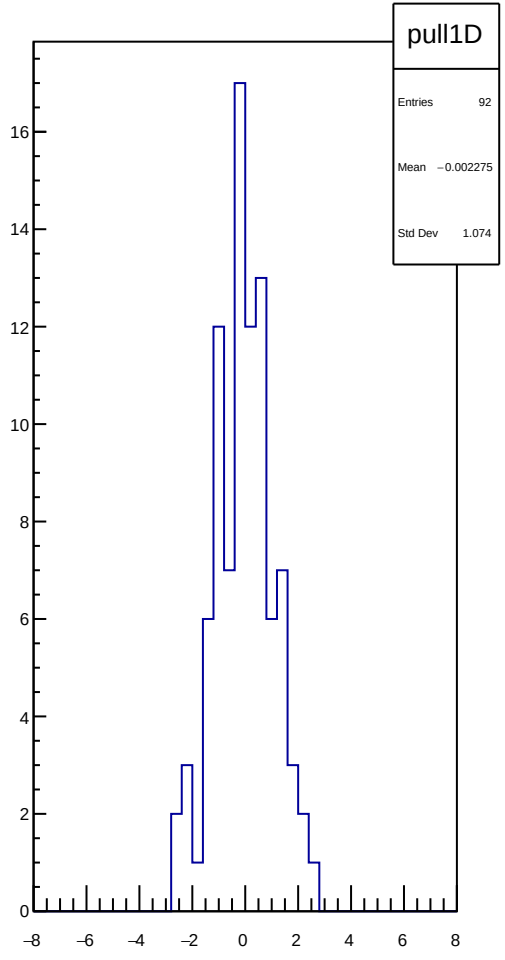

pull1D
Entries 92
Mean 0.005035
Std Dev 1.155
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

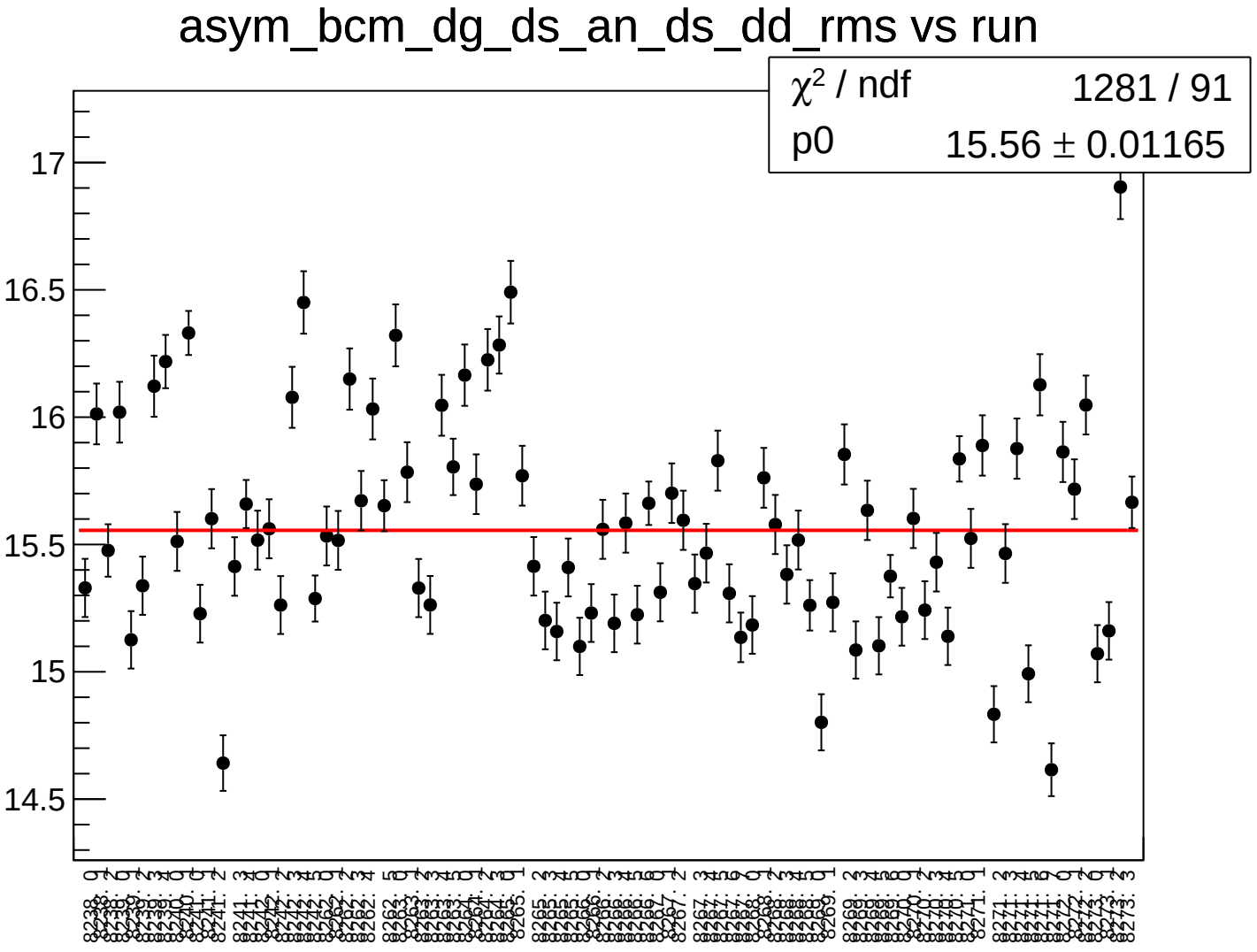

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 324.4 / 91
p0 21.07 ± 0.01578
22
21.5
21
20.5
20

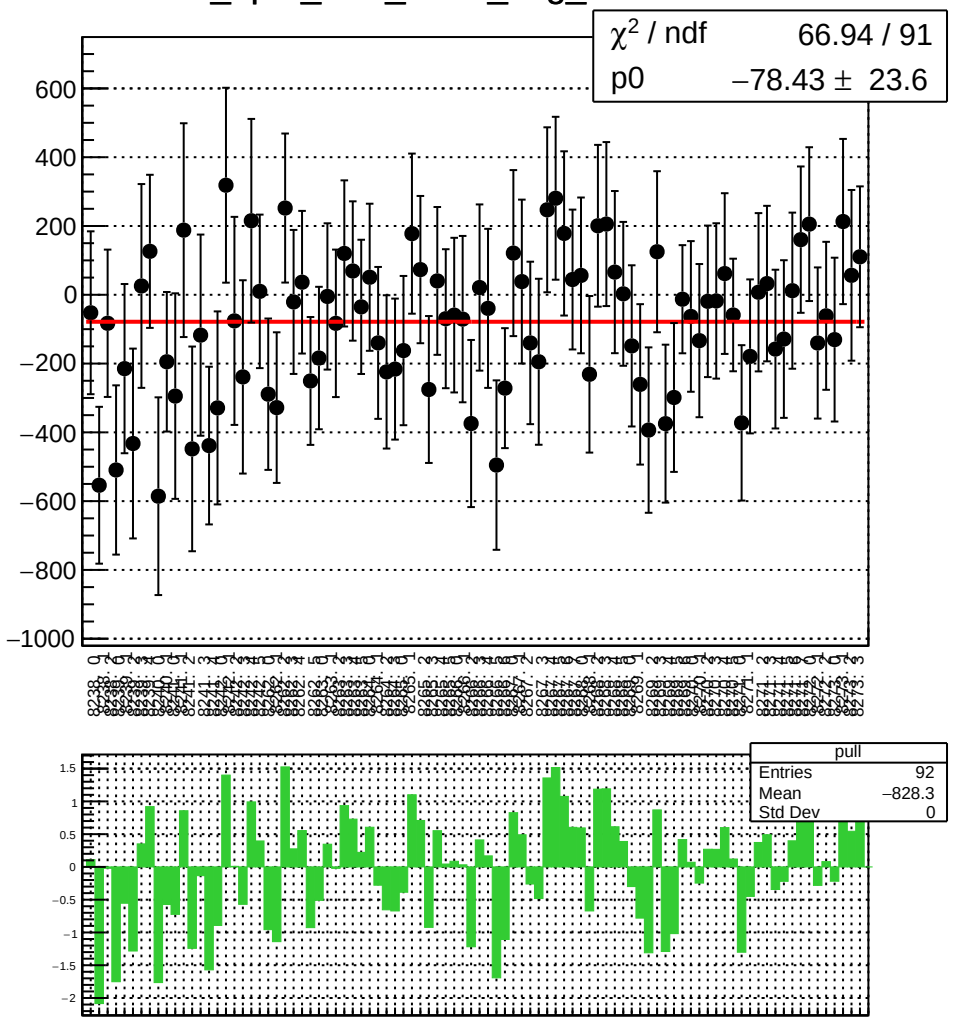

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 21.47 / 91
p0 −383 ± 203.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 92
Mean 431.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.001137
Std Dev 0.4831
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

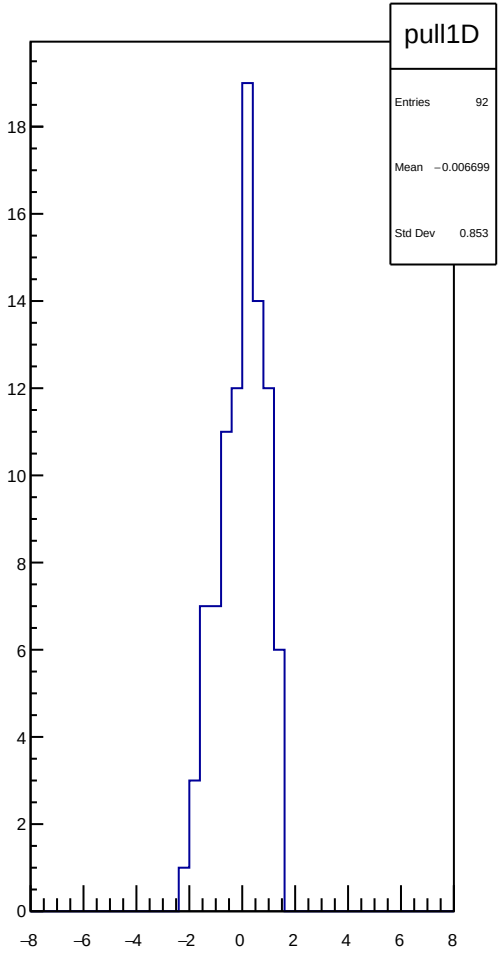

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 3558 / 91
p0 191.6 ± 0.1437
220
210
200
190
180
170

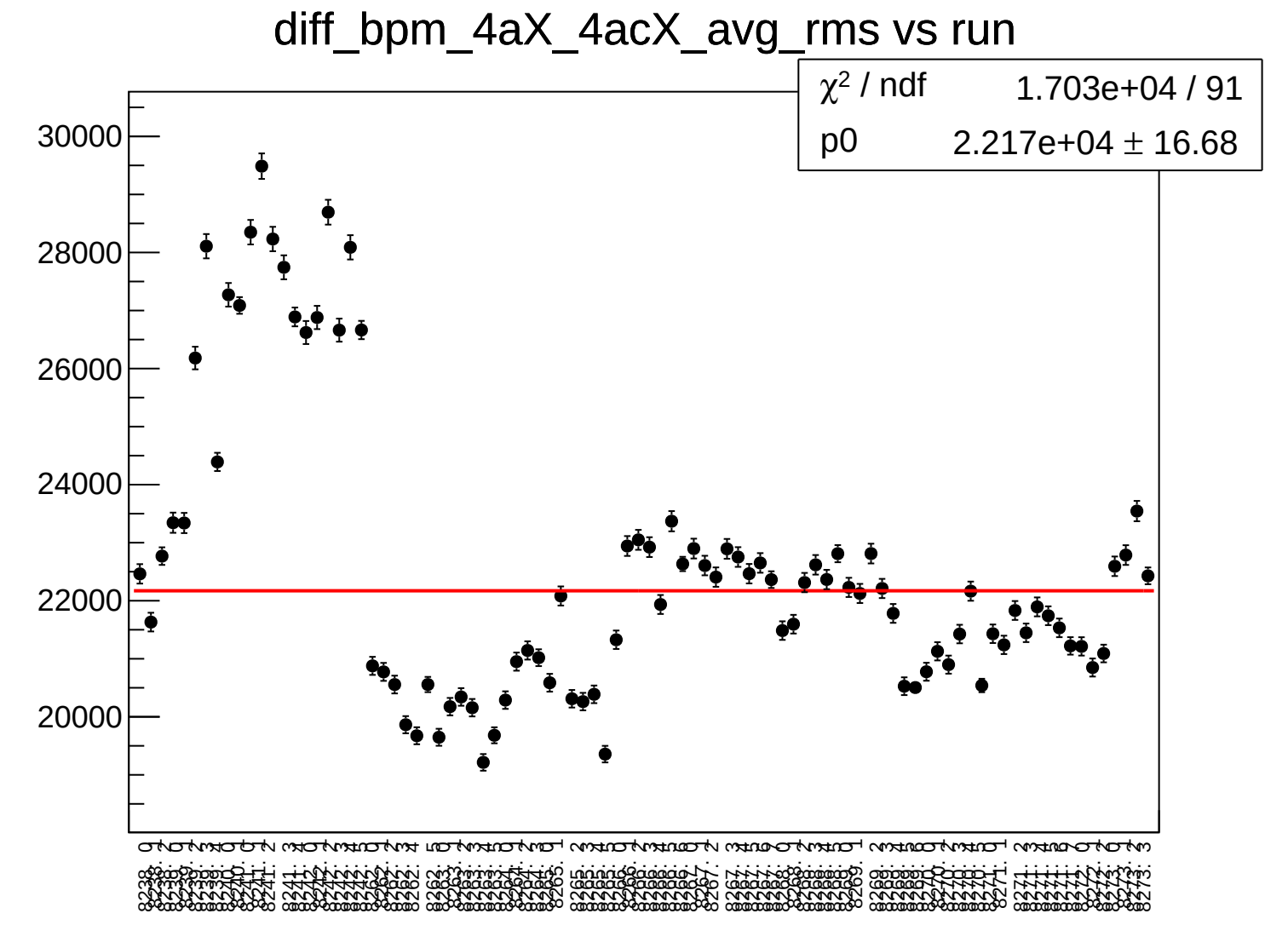

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 106.2 / 91
p0 7.731 ± 16.48
600
400
200
0
−200
−400
−600
pull
Entries 92
Mean −478.1
Std Dev 0
2
1
0
−1
−2

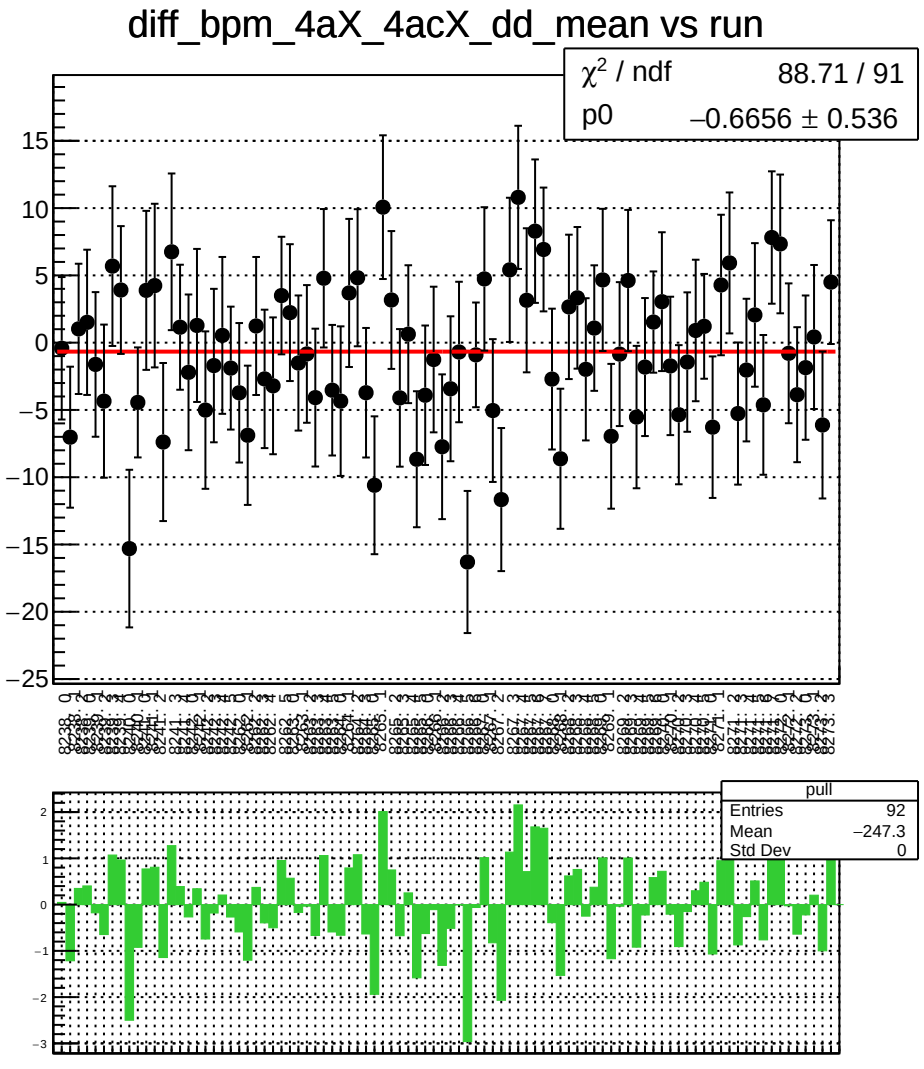

pull1D
Entries 92
Mean −0.002275
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

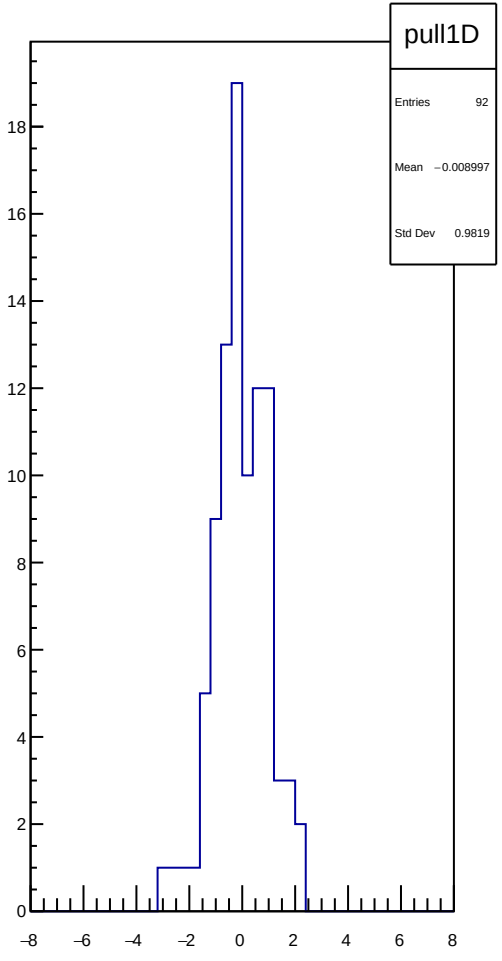

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 1281 / 91
p0 15.56 ± 0.01165
17
16.5
16
15.5
15
14.5

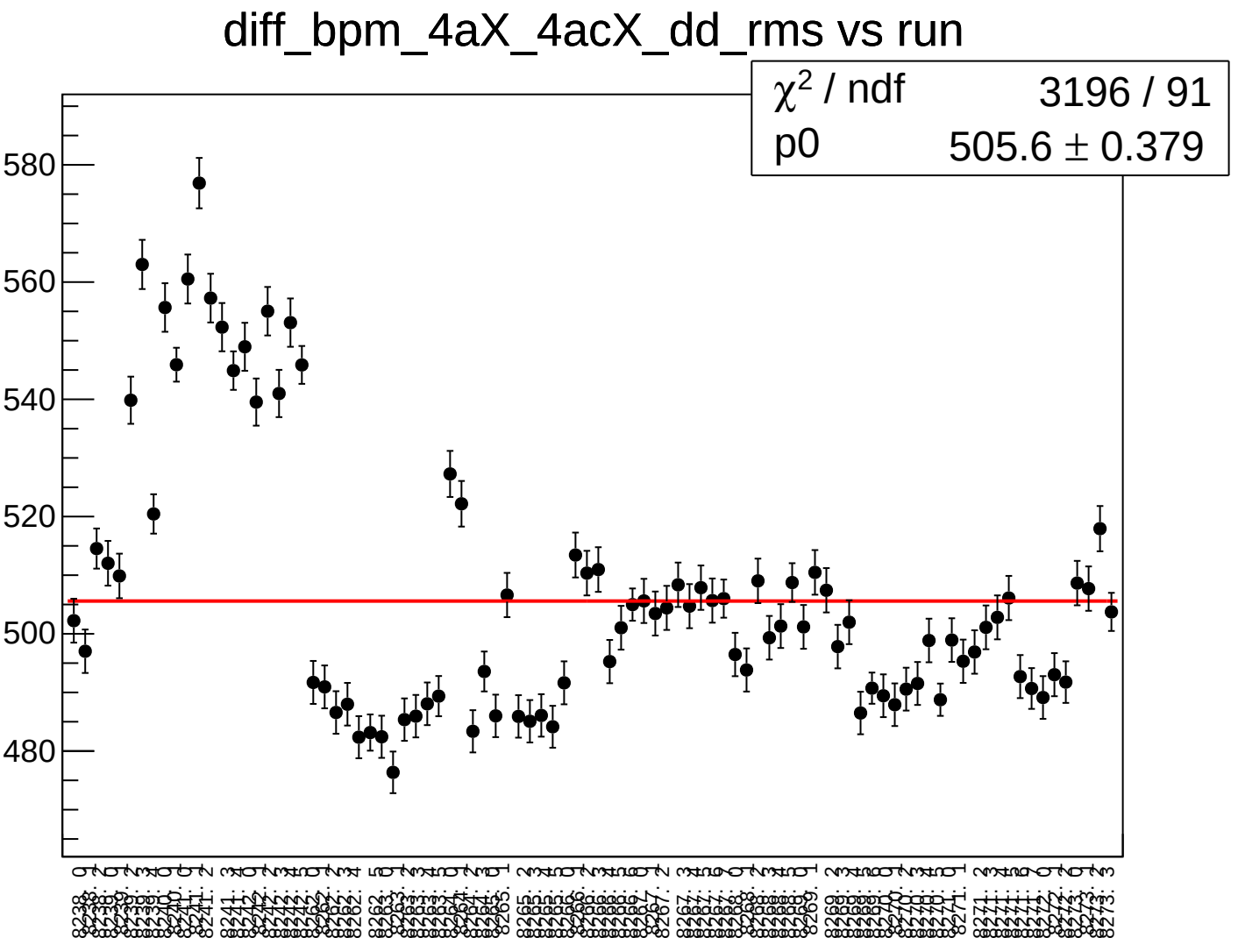

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 66.94 / 91
p0 −78.43 ± 23.6
pull
Entries 92
Mean −828.3
Std Dev 0

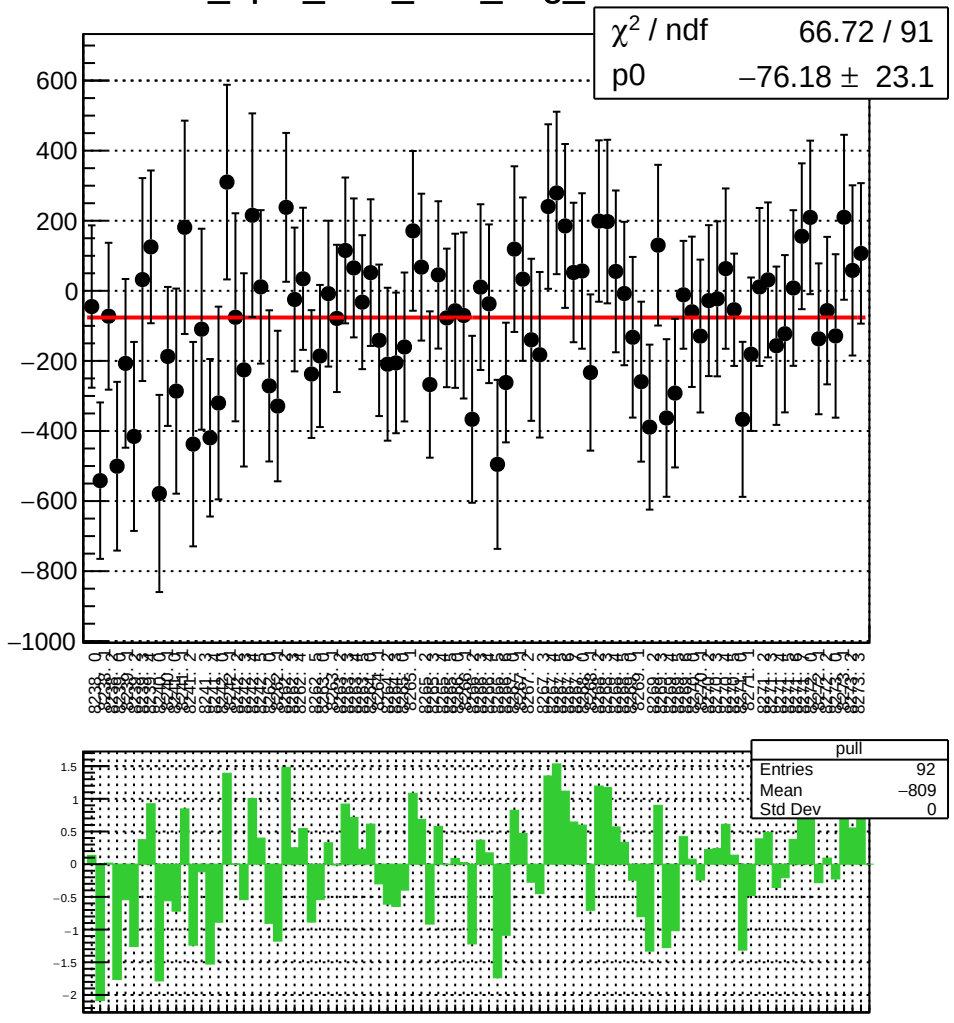

pull1D
Entries 92
Mean −0.006699
Std Dev 0.853

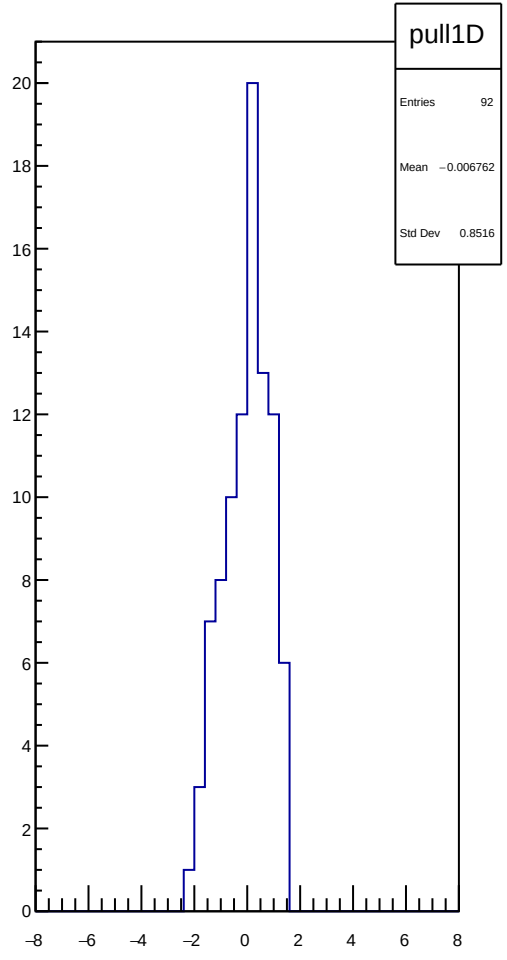

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 1.703e+04 / 91
p0 2.217e+04 ± 16.68
30000
28000
26000
24000
22000
20000

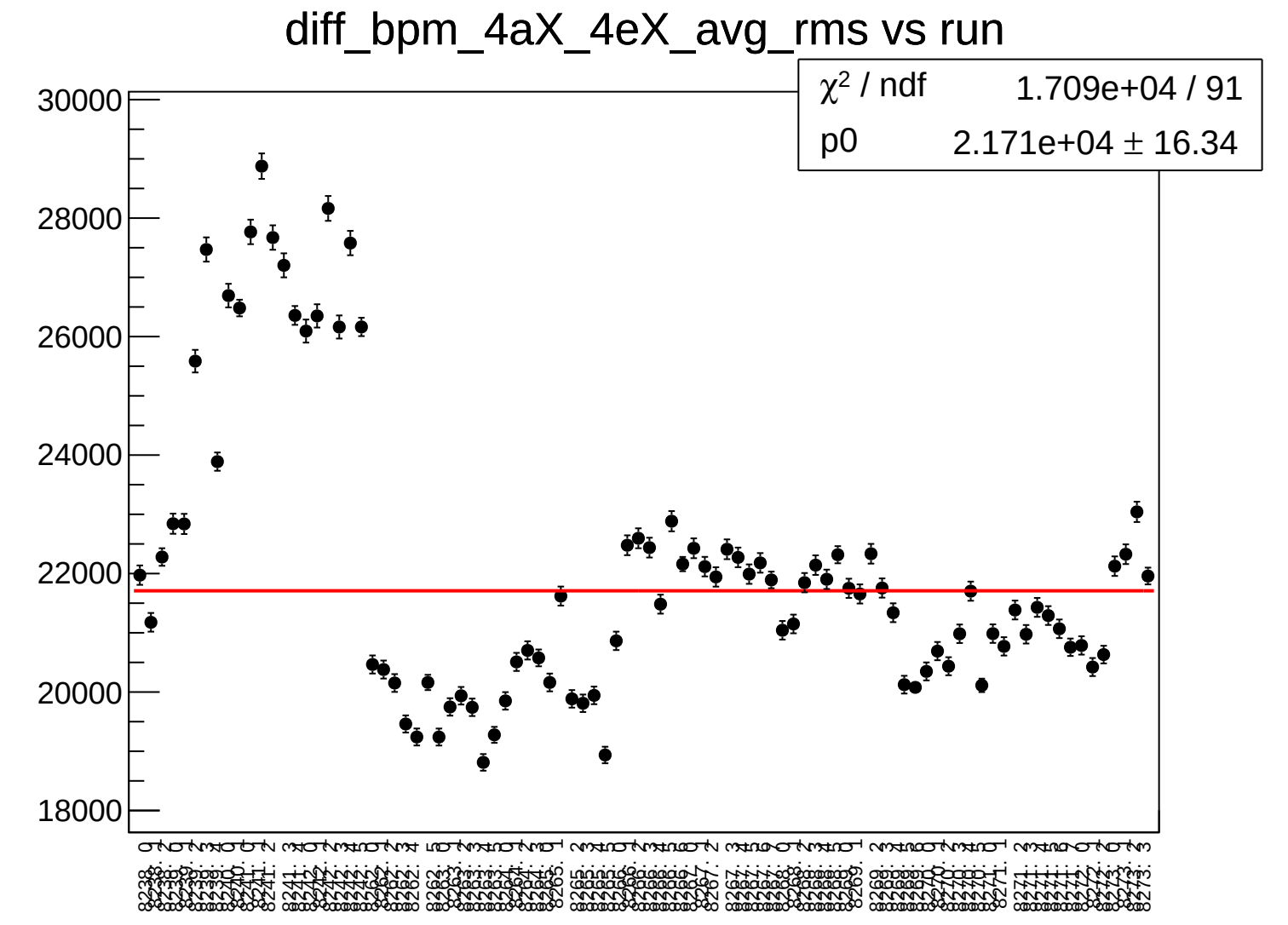

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 88.71 / 91
p0 −0.6656 ± 0.536
pull
Entries 92
Mean −247.3
Std Dev 0

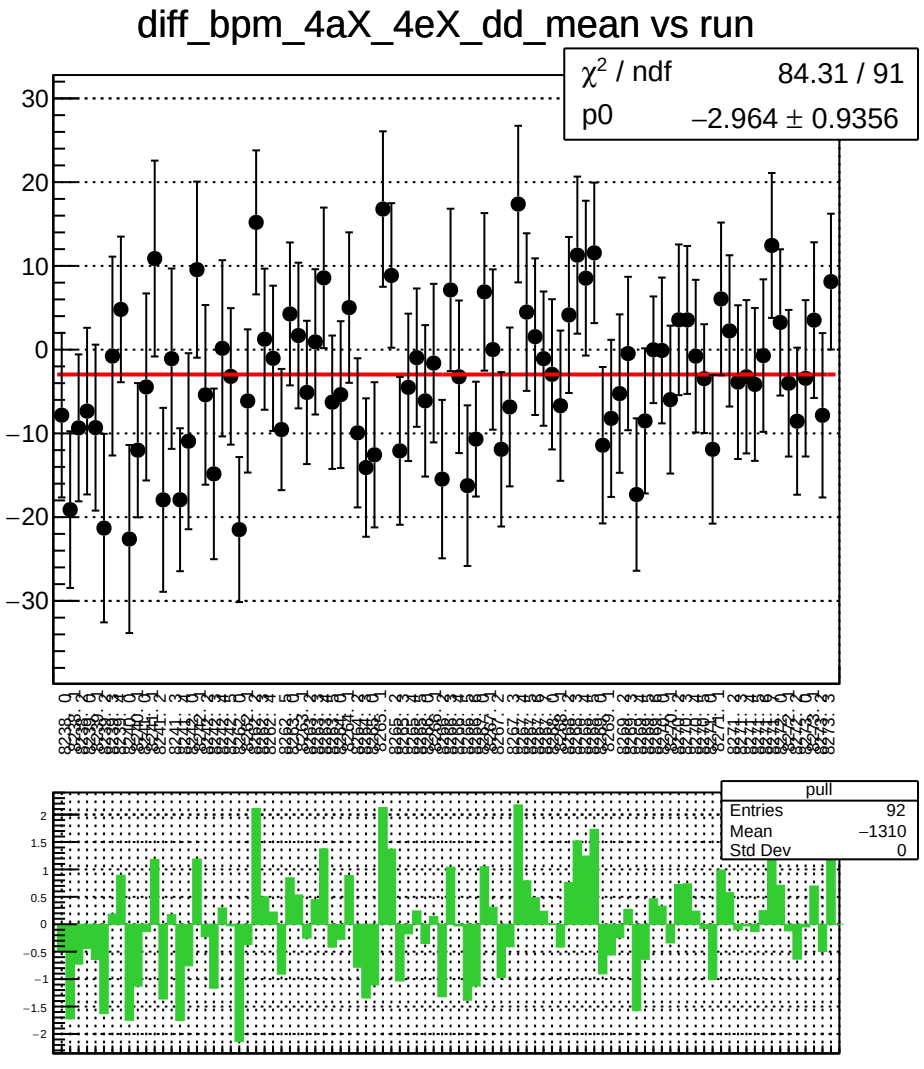

pull1D
Entries 92
Mean −0.008997
Std Dev 0.9819

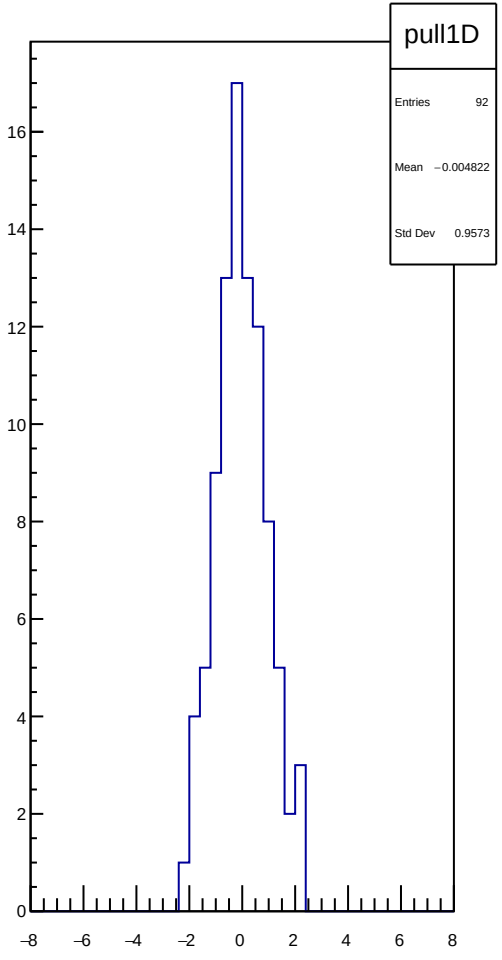

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 3196 / 91
p0 505.6 ± 0.379
580
560
540
520
500
480

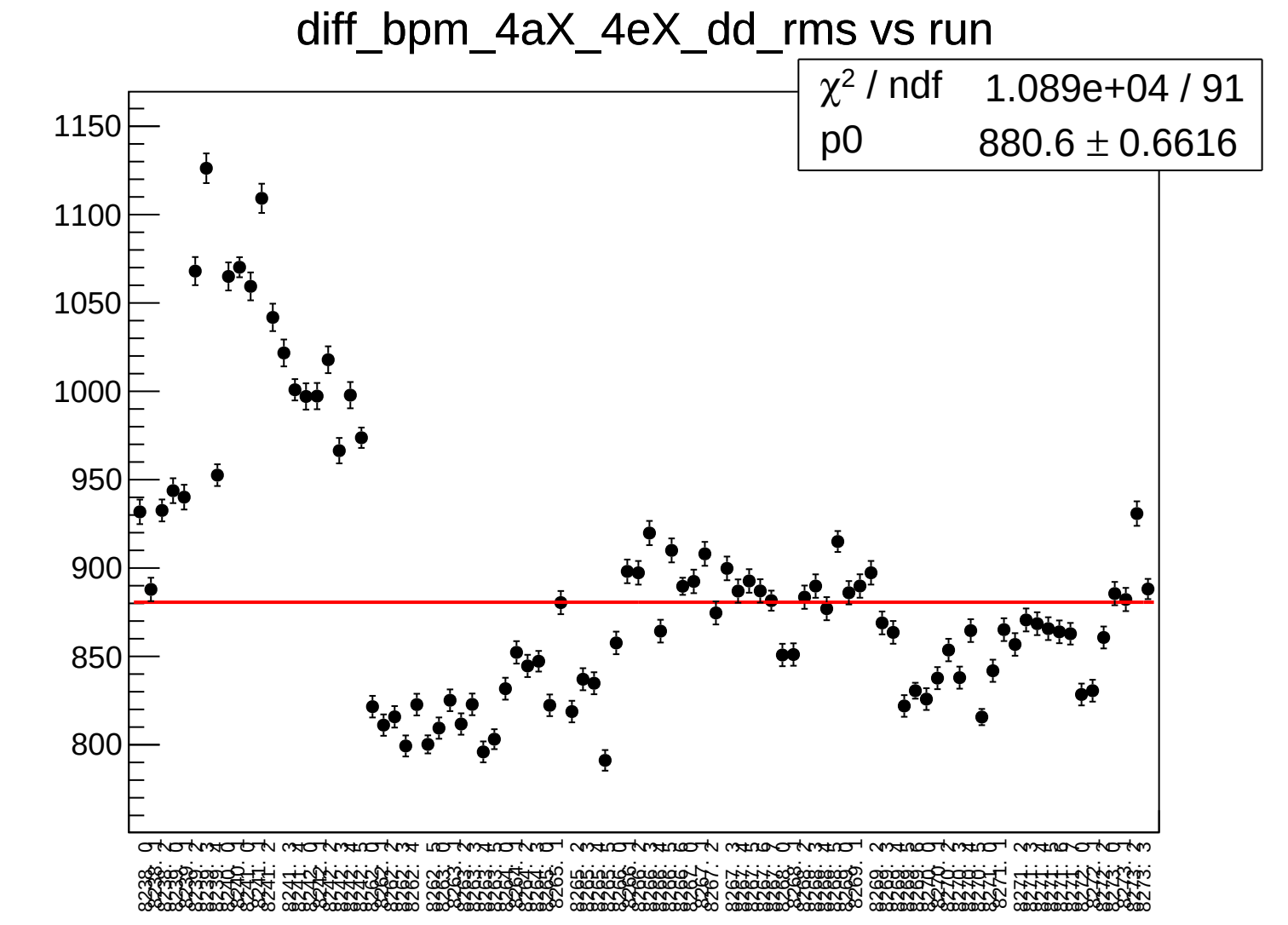

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 66.72 / 91
p0 −76.18 ± 23.1
pull
Entries 92
Mean −809
Std Dev 0

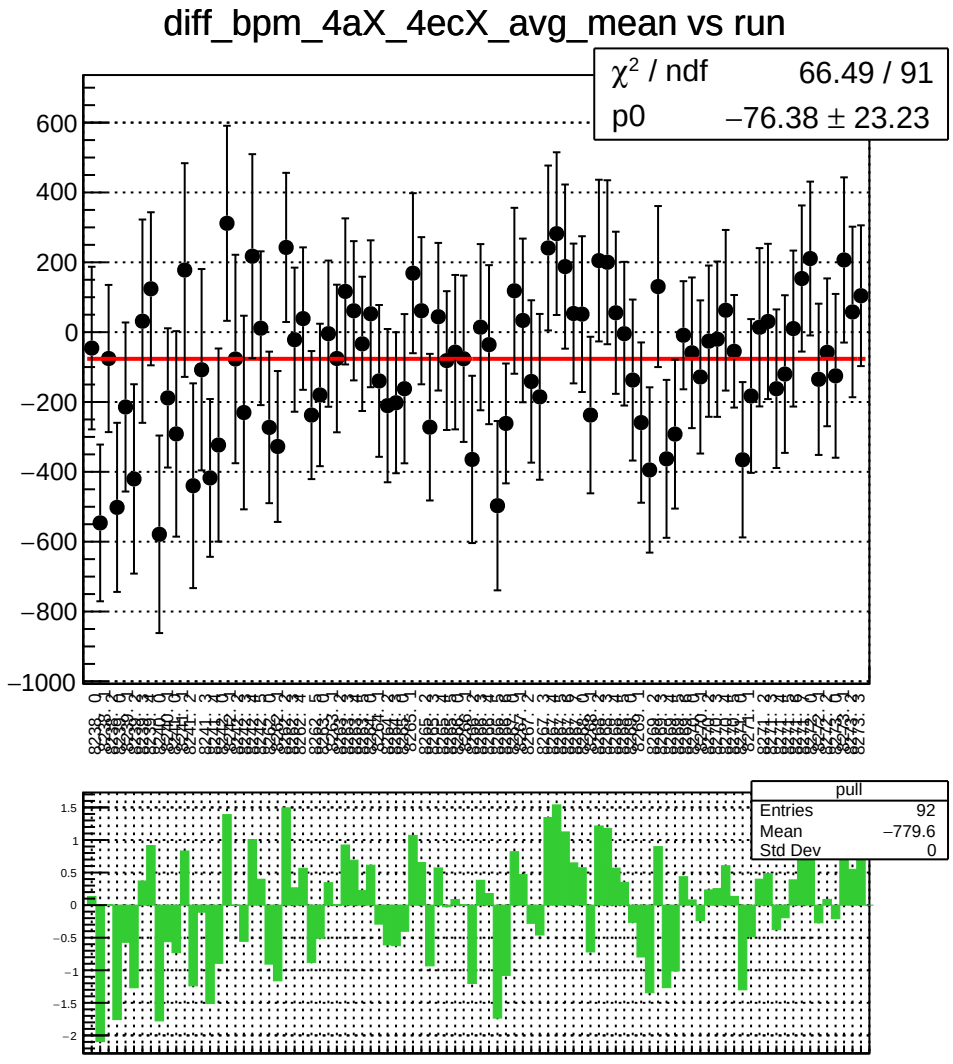

pull1D
Entries 92
Mean −0.006762
Std Dev 0.8516

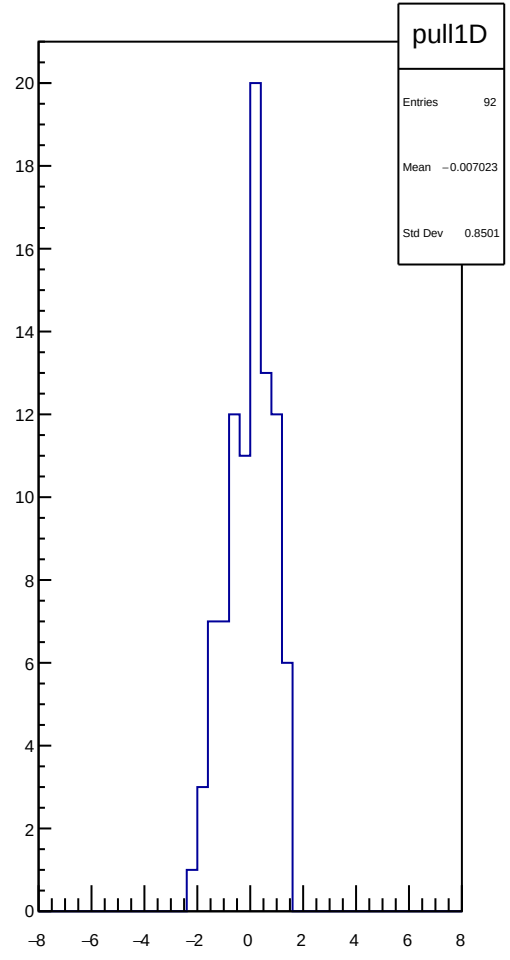

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 1.709e+04 / 91
p0 2.171e+04 ± 16.34
30000
28000
26000
24000
22000
20000
18000

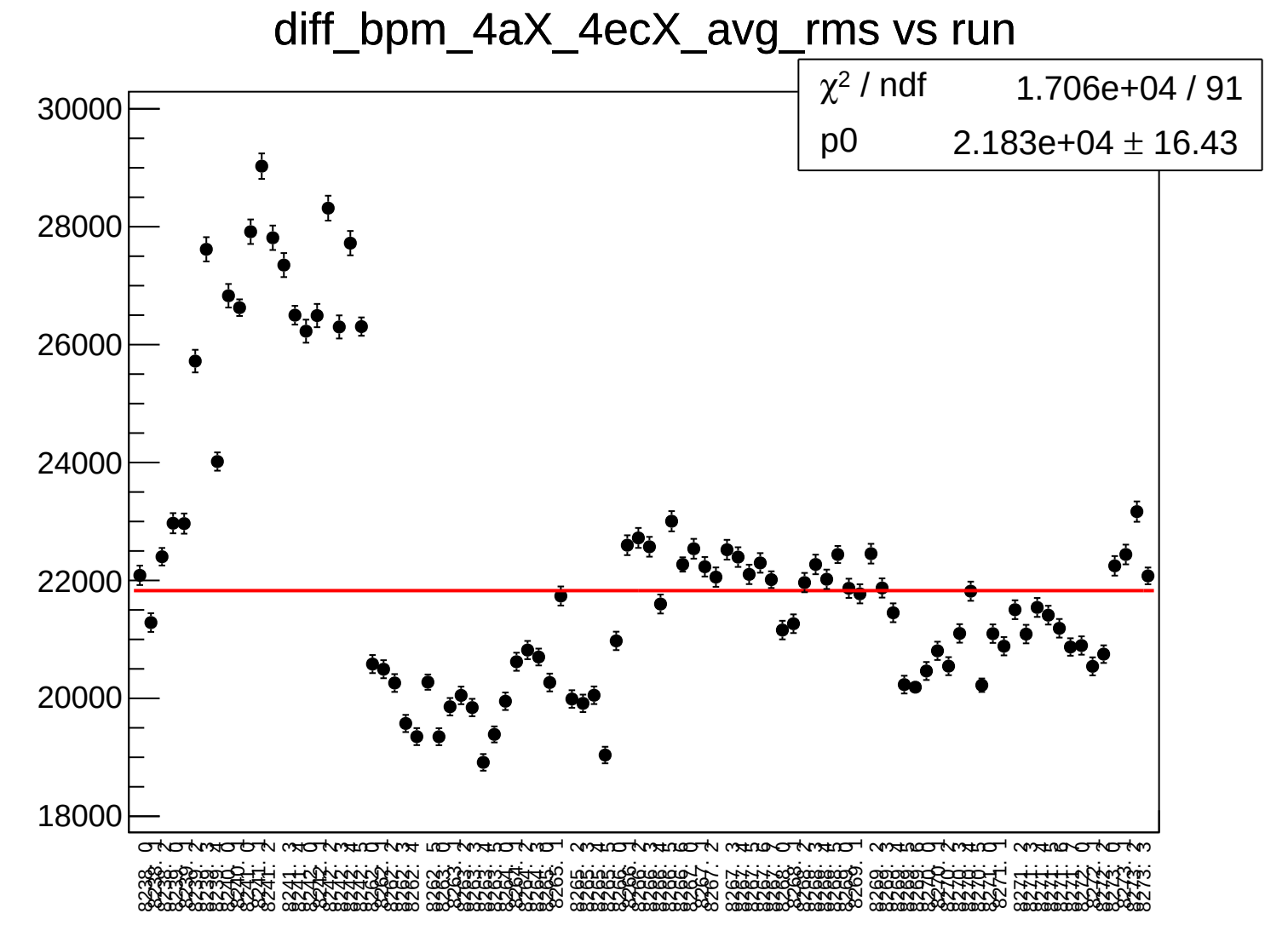

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 84.31 / 91
p0 −2.964 ± 0.9356
pull
Entries 92
Mean −1310
Std Dev 0

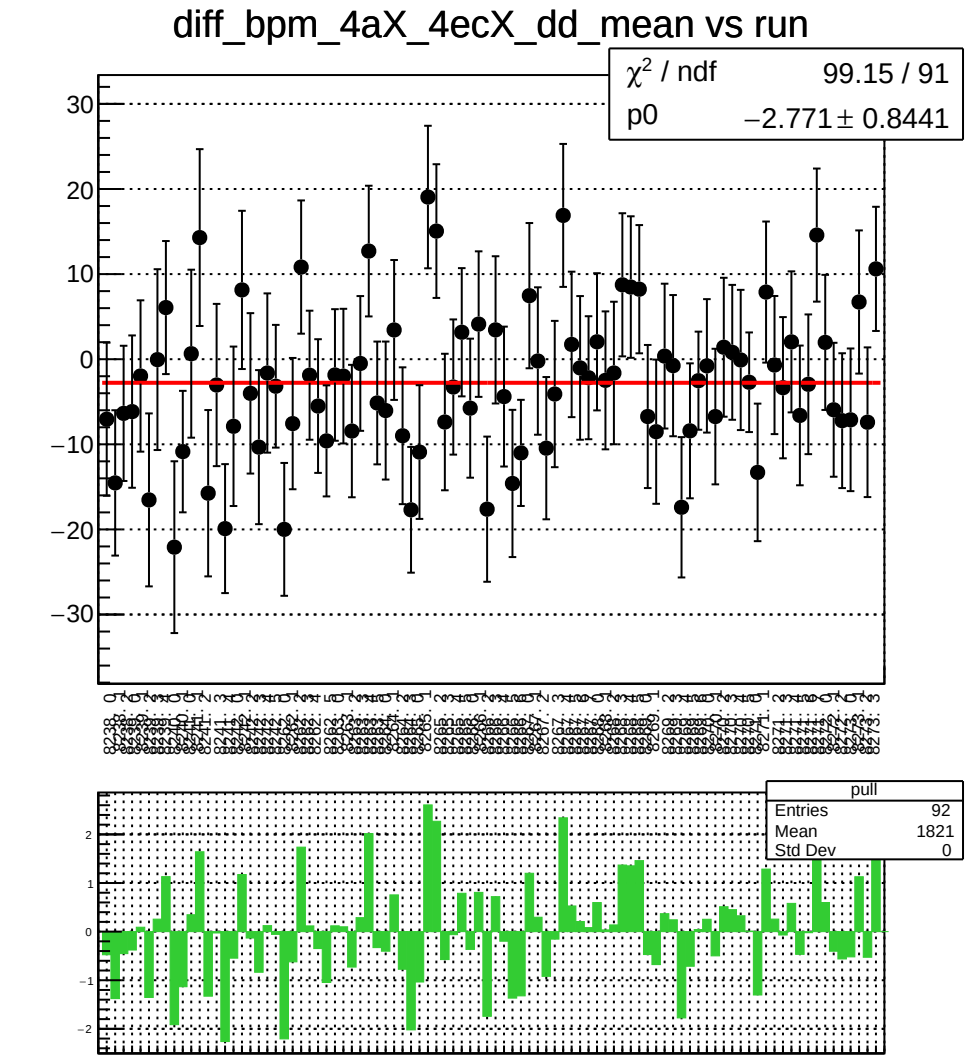

pull1D
Entries 92
Mean −0.004822
Std Dev 0.9573

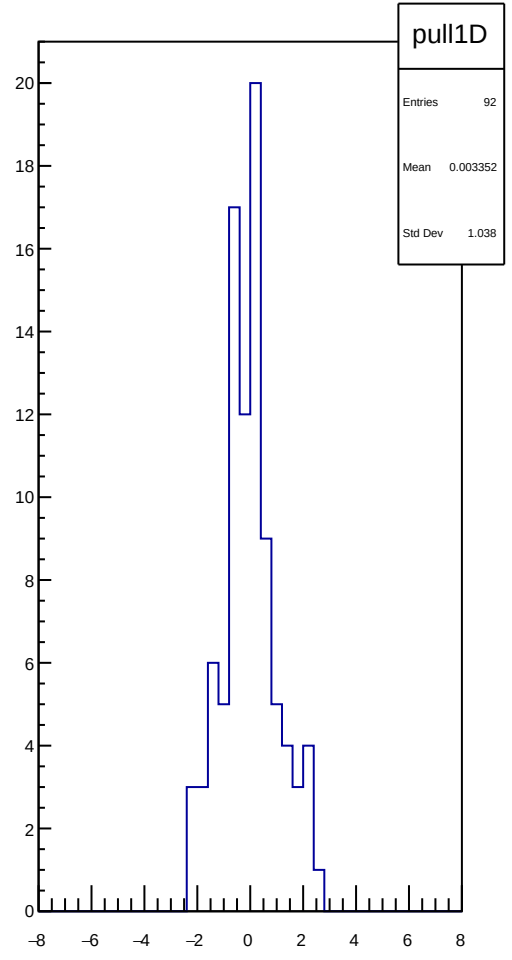

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 1.089e+04 / 91
p0 880.6 ± 0.6616
1150
1100
1050
1000
950
900
850
800

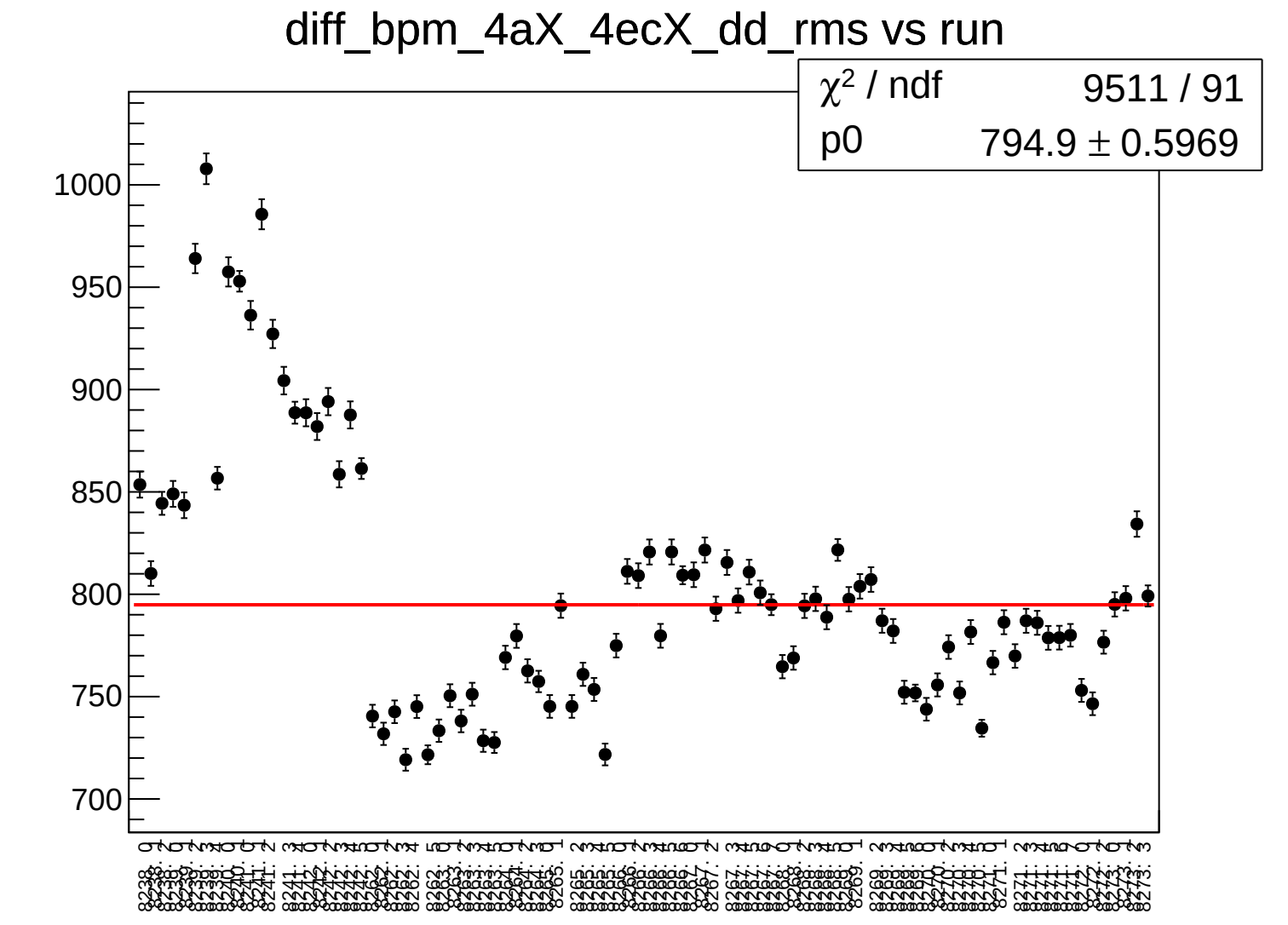

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 66.49 / 91
p0 −76.38 ± 23.23
pull
Entries 92
Mean −779.6
Std Dev 0

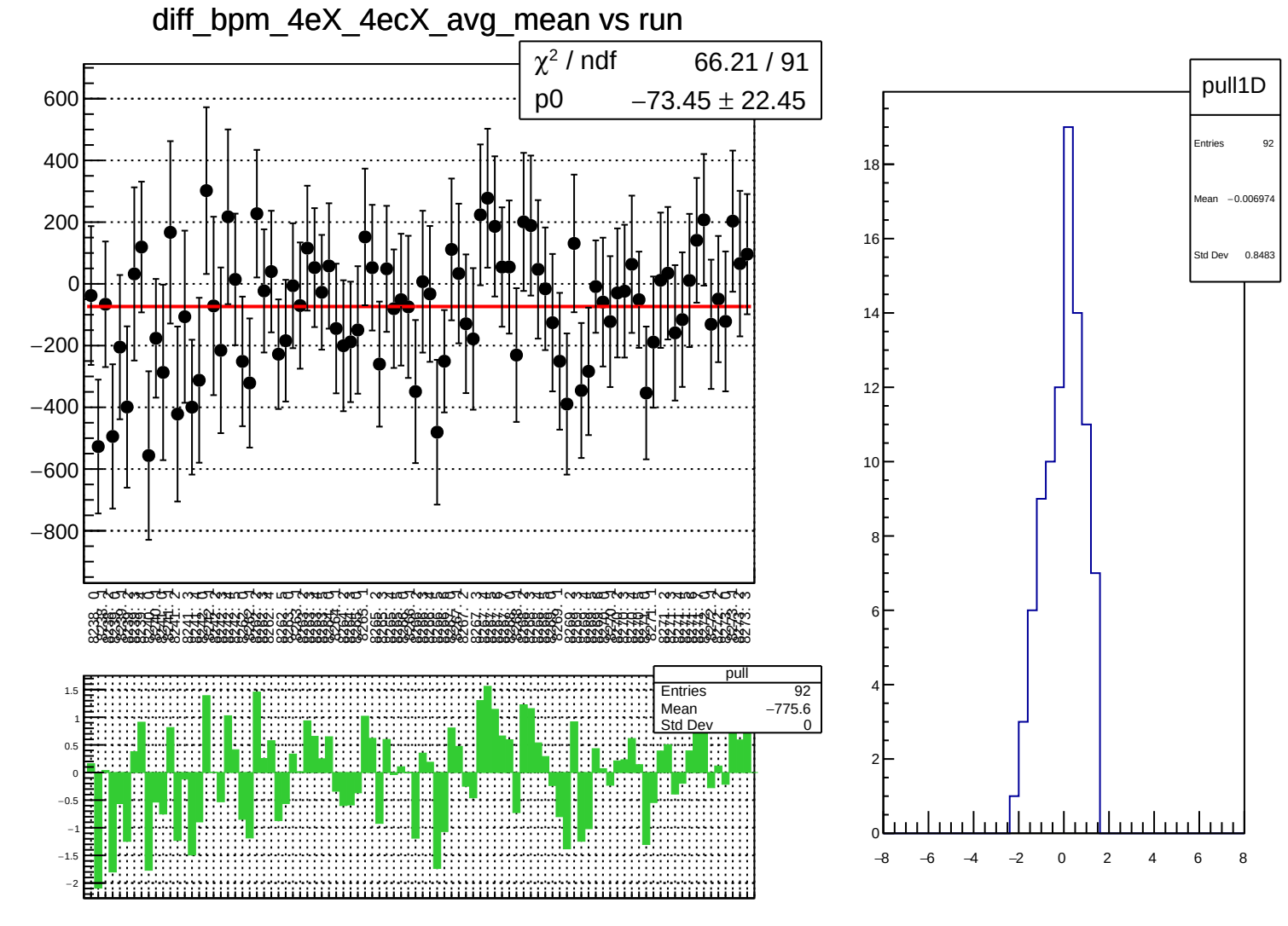

pull1D
Entries 92
Mean −0.007023
Std Dev 0.8501

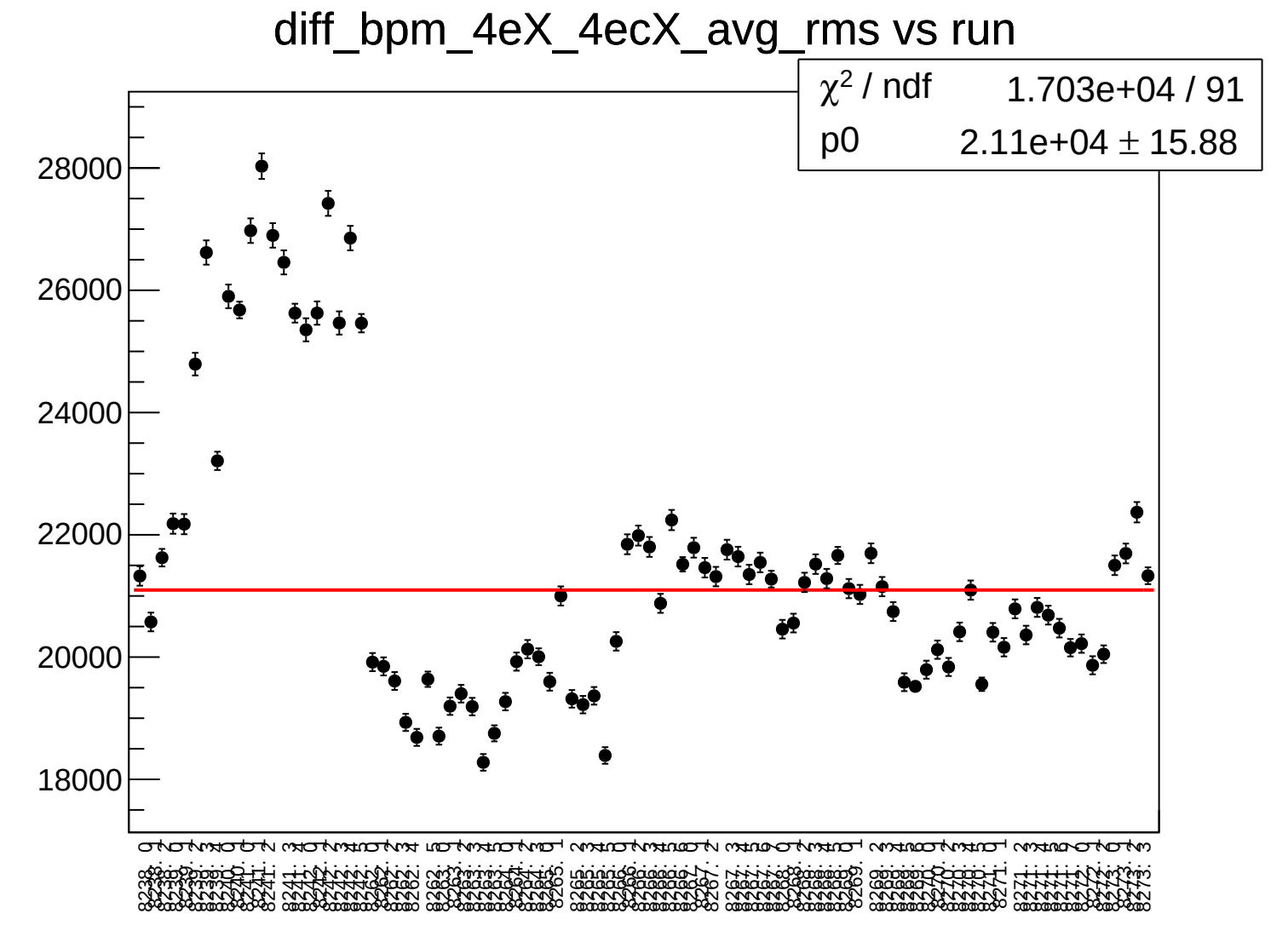

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 1.706e+04 / 91
p0 2.183e+04 ± 16.43
30000
28000
26000
24000
22000
20000
18000

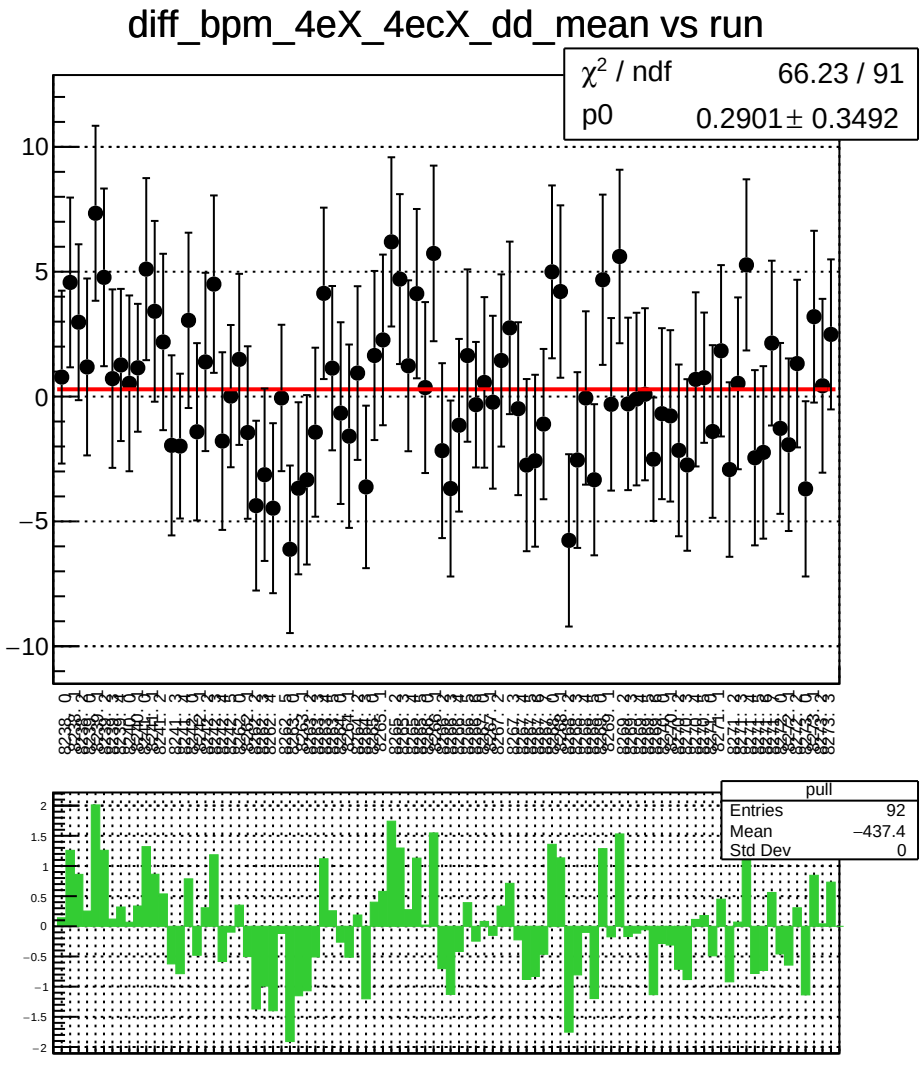

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 99.15 / 91
p0 −2.771 ± 0.8441
pull
Entries 92
Mean 1821
Std Dev 0

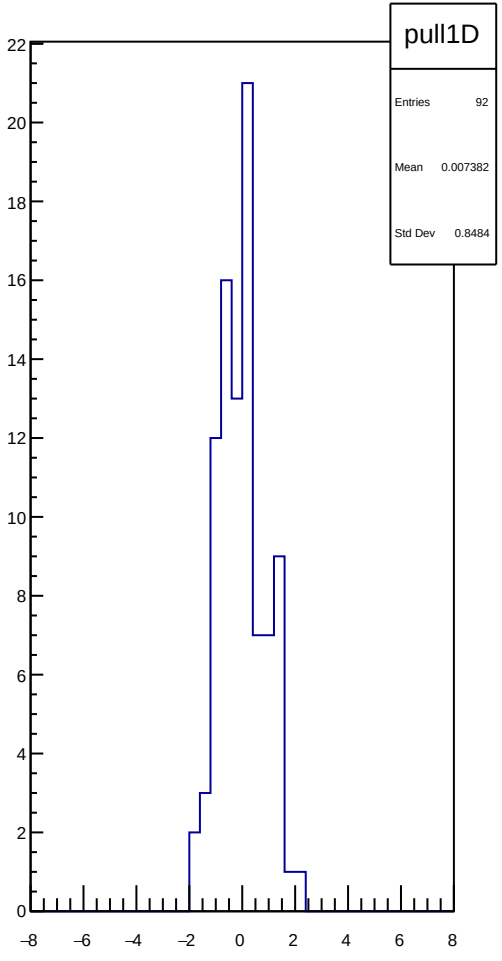

pull1D
Entries 92
Mean 0.003352
Std Dev 1.038

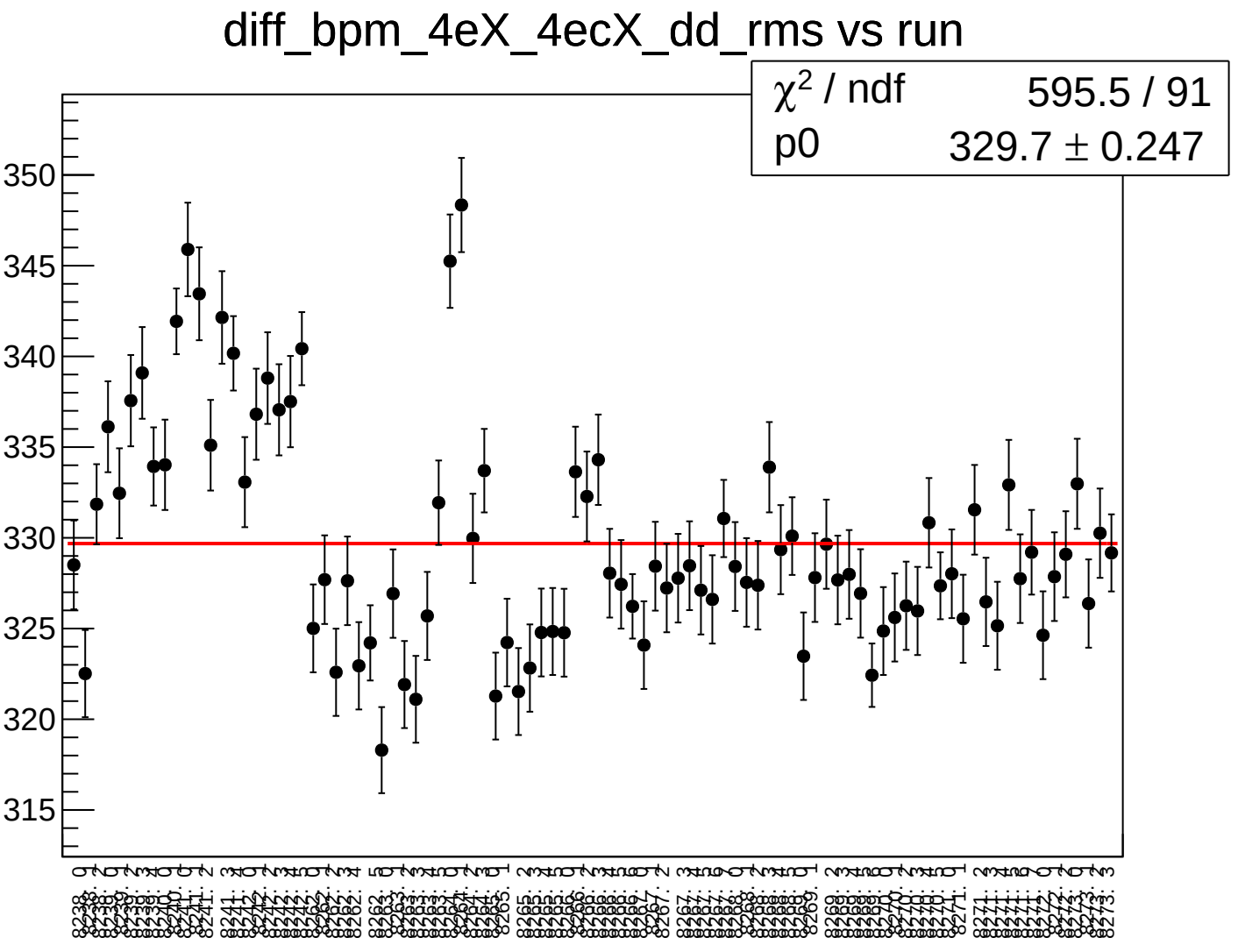

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 9511 / 91
p0 794.9 ± 0.5969
1000
950
900
850
800
750
700

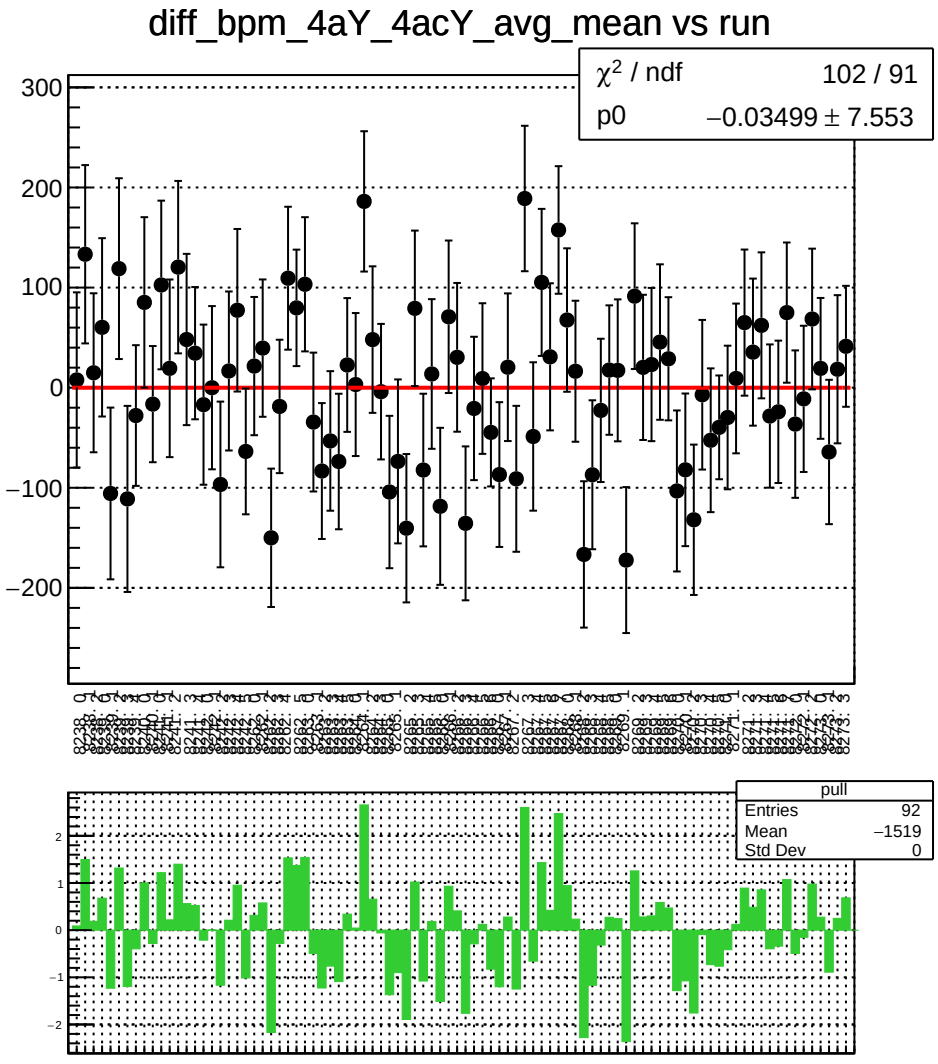

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 66.21 / 91
p0 −73.45 ± 22.45
pull
Entries 92
Mean −775.6
Std Dev 0
pull1D
Entries 92
Mean −0.006974
Std Dev 0.8483

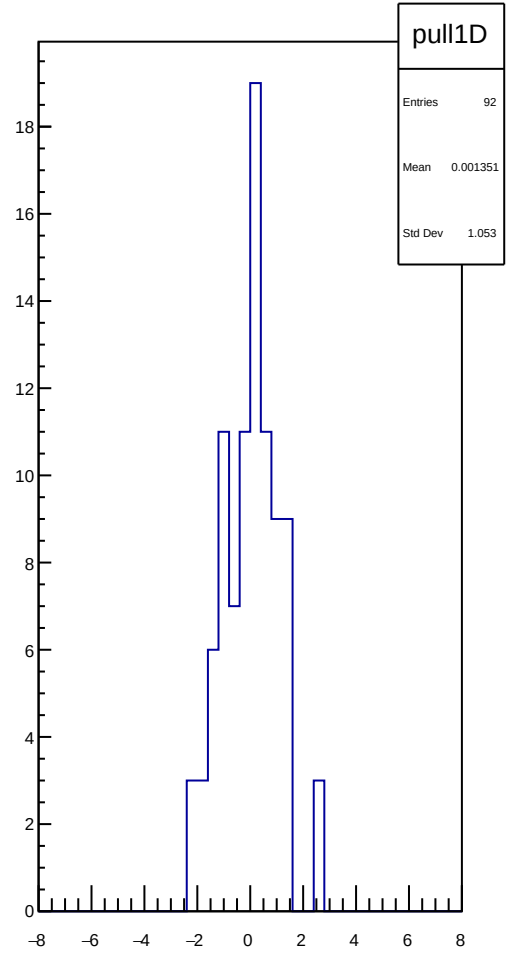

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 1.703e+04 / 91
p0 2.11e+04 ± 15.88
28000
26000
24000
22000
20000
18000

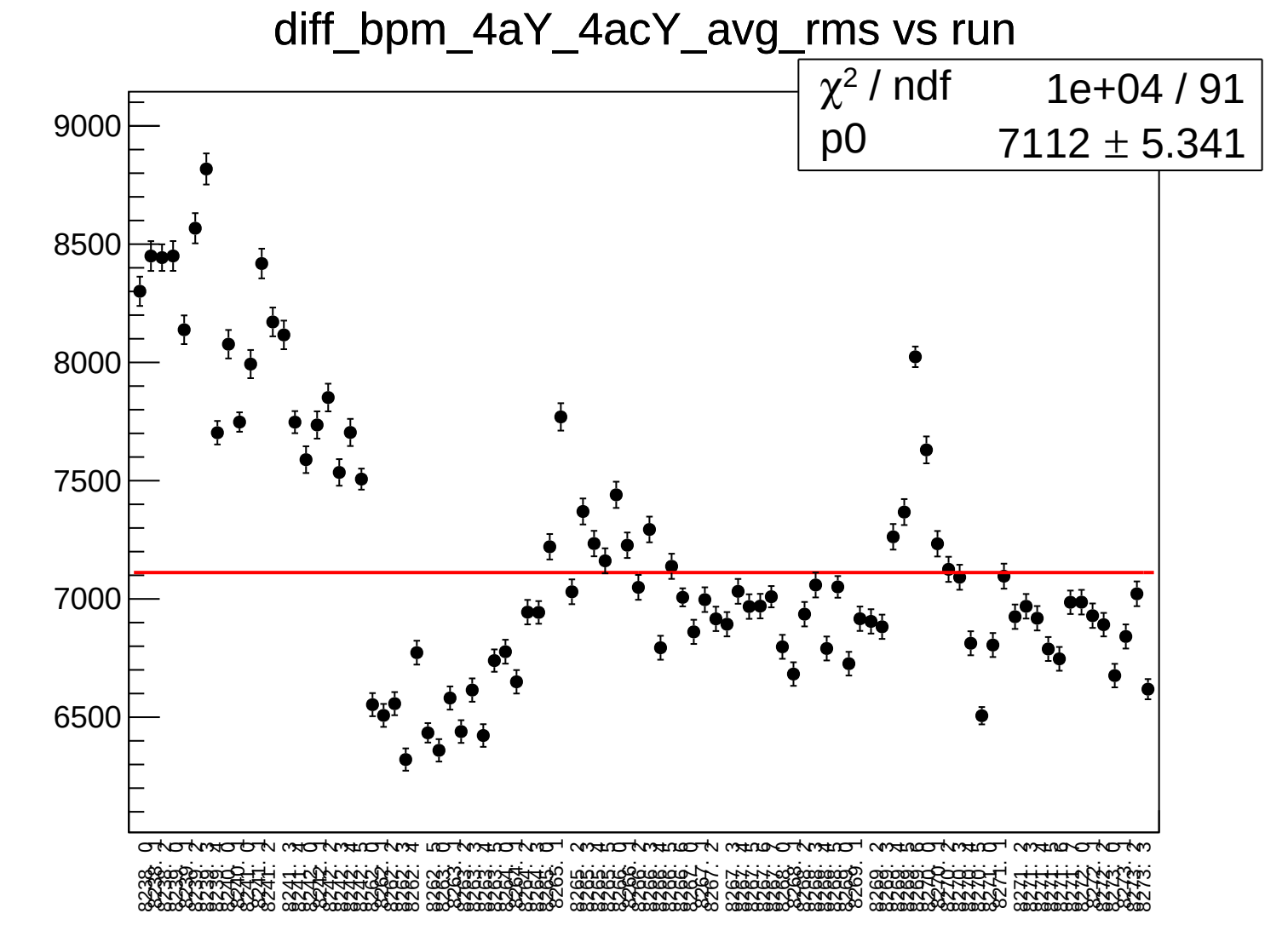

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 66.23 / 91
p0 0.2901± 0.3492
pull
Entries 92
Mean −437.4
Std Dev 0

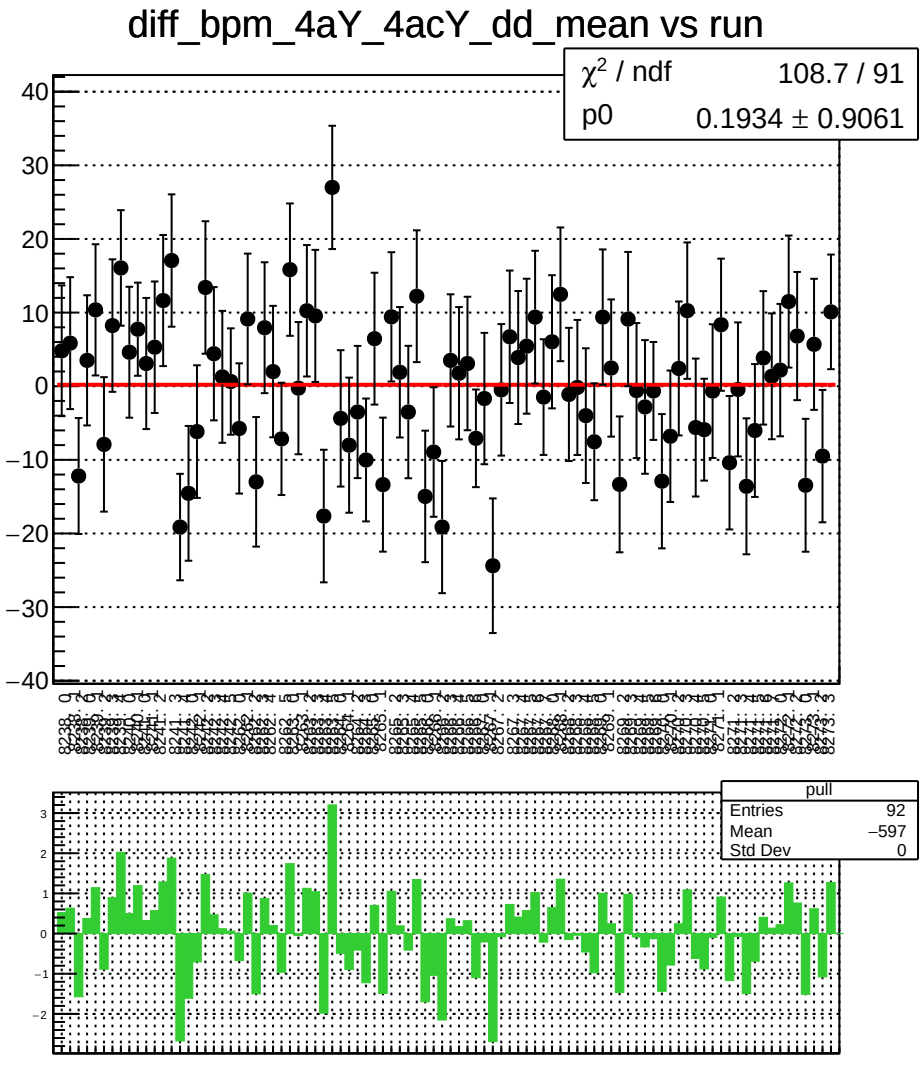

pull1D
Entries 92
Mean 0.007382
Std Dev 0.8484

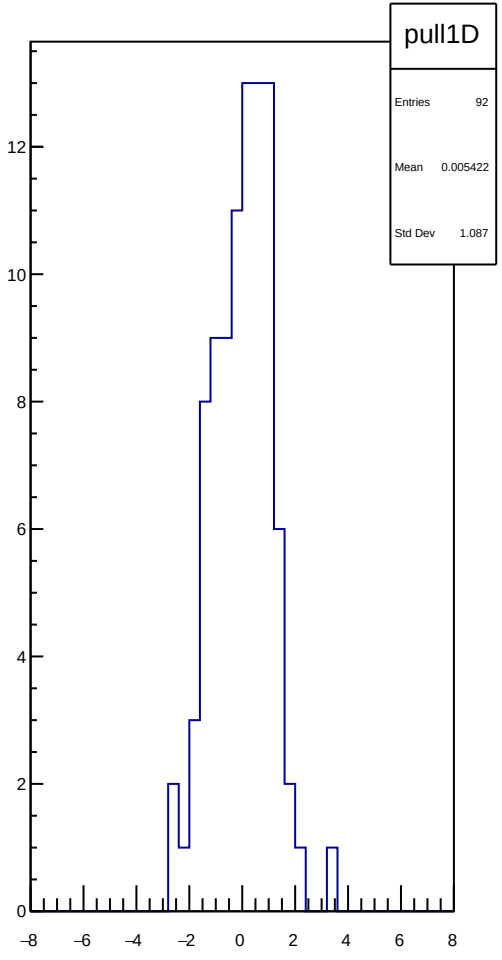

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 595.5 / 91
p0 329.7 ± 0.247
350
345
340
335
330
325
320
315

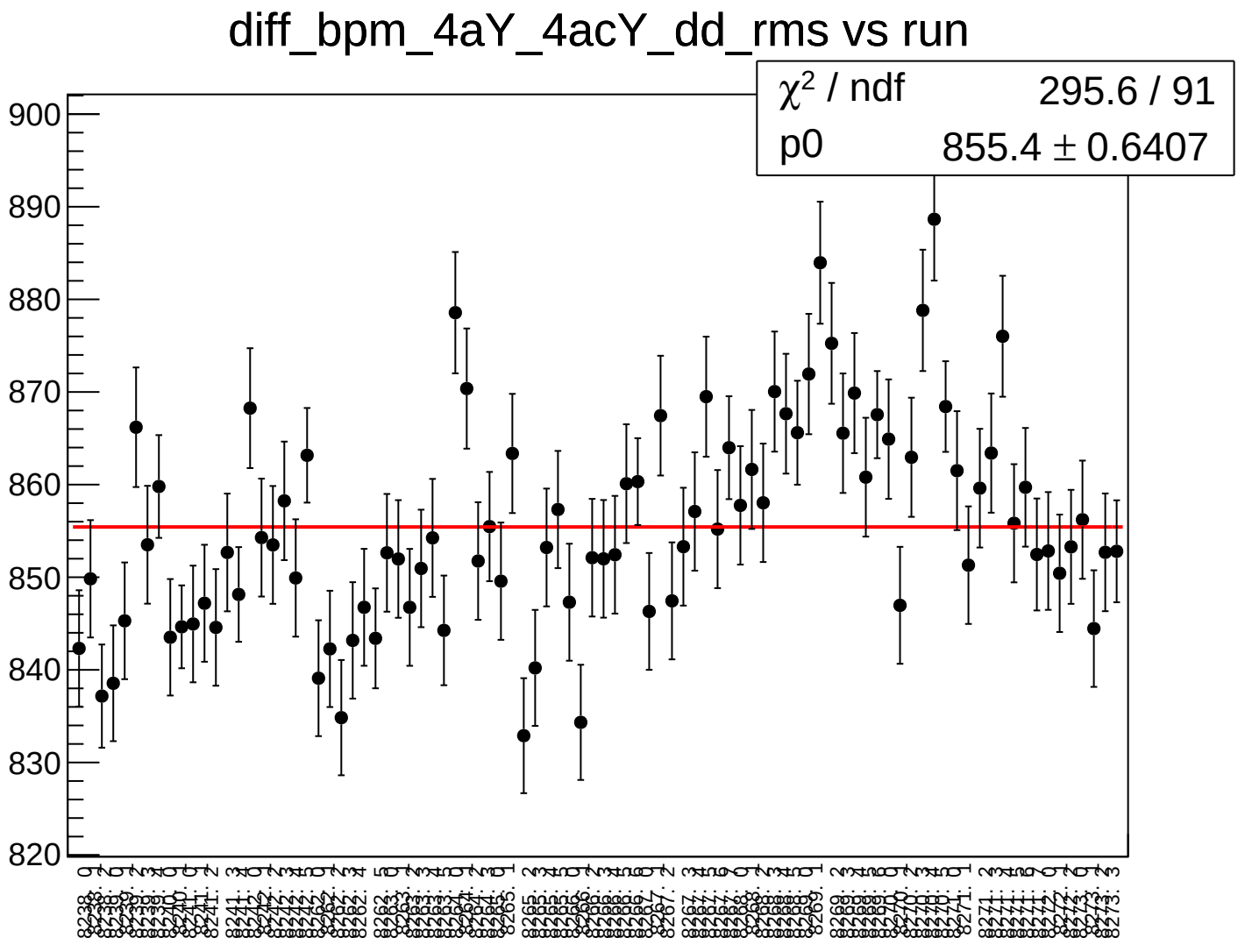

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 102 / 91
p0 −0.03499 ± 7.553
300
200
100
0
−100
−200
pull
Entries 92
Mean −1519
Std Dev 0
2
1
0
−1
−2

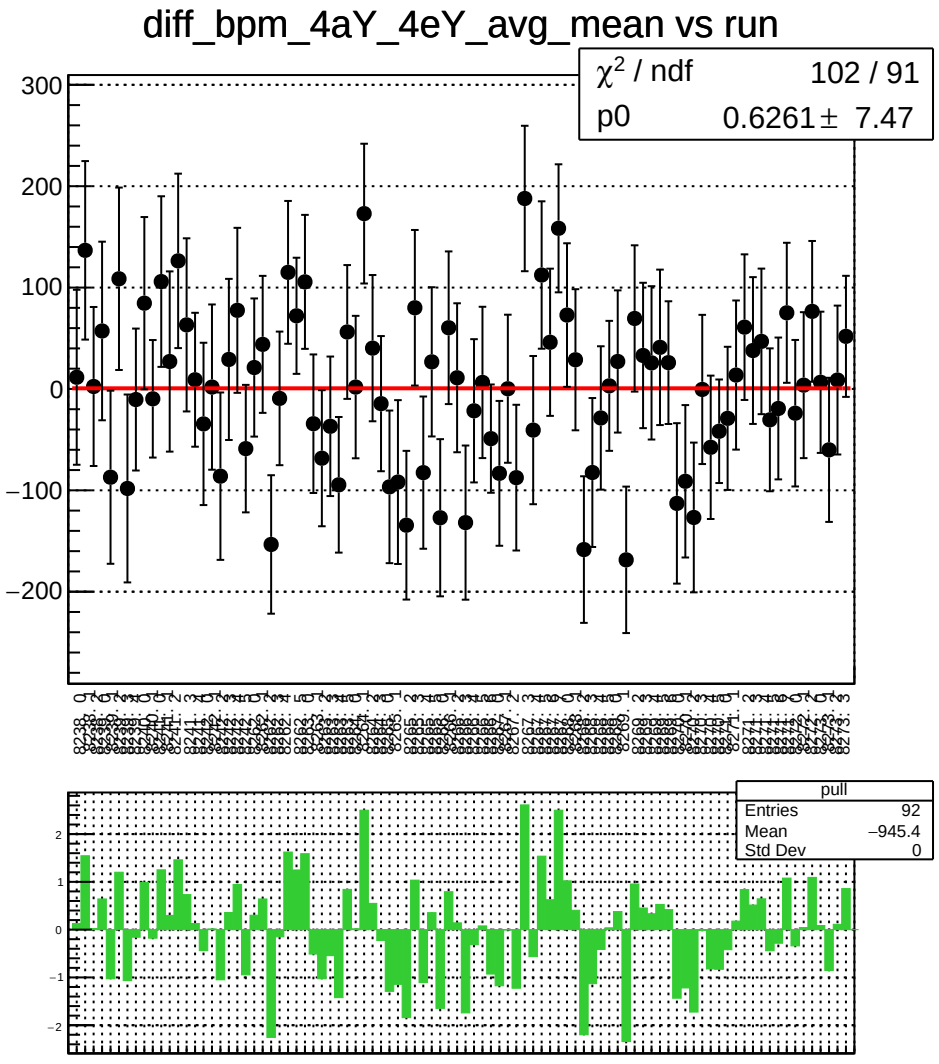

pull1D
Entries 92
Mean 0.001351
Std Dev 1.053
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

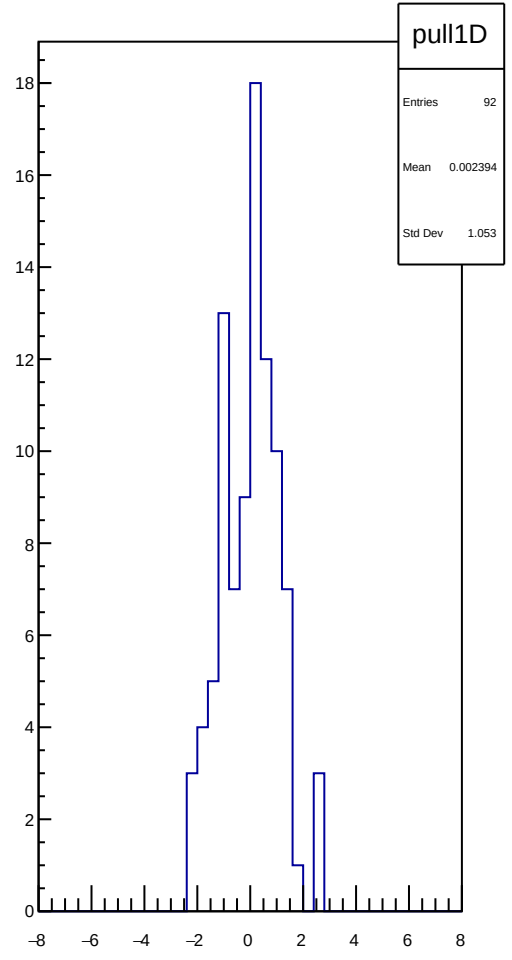

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 1e+04 / 91
p0 7112 ± 5.341
9000
8500
8000
7500
7000
6500

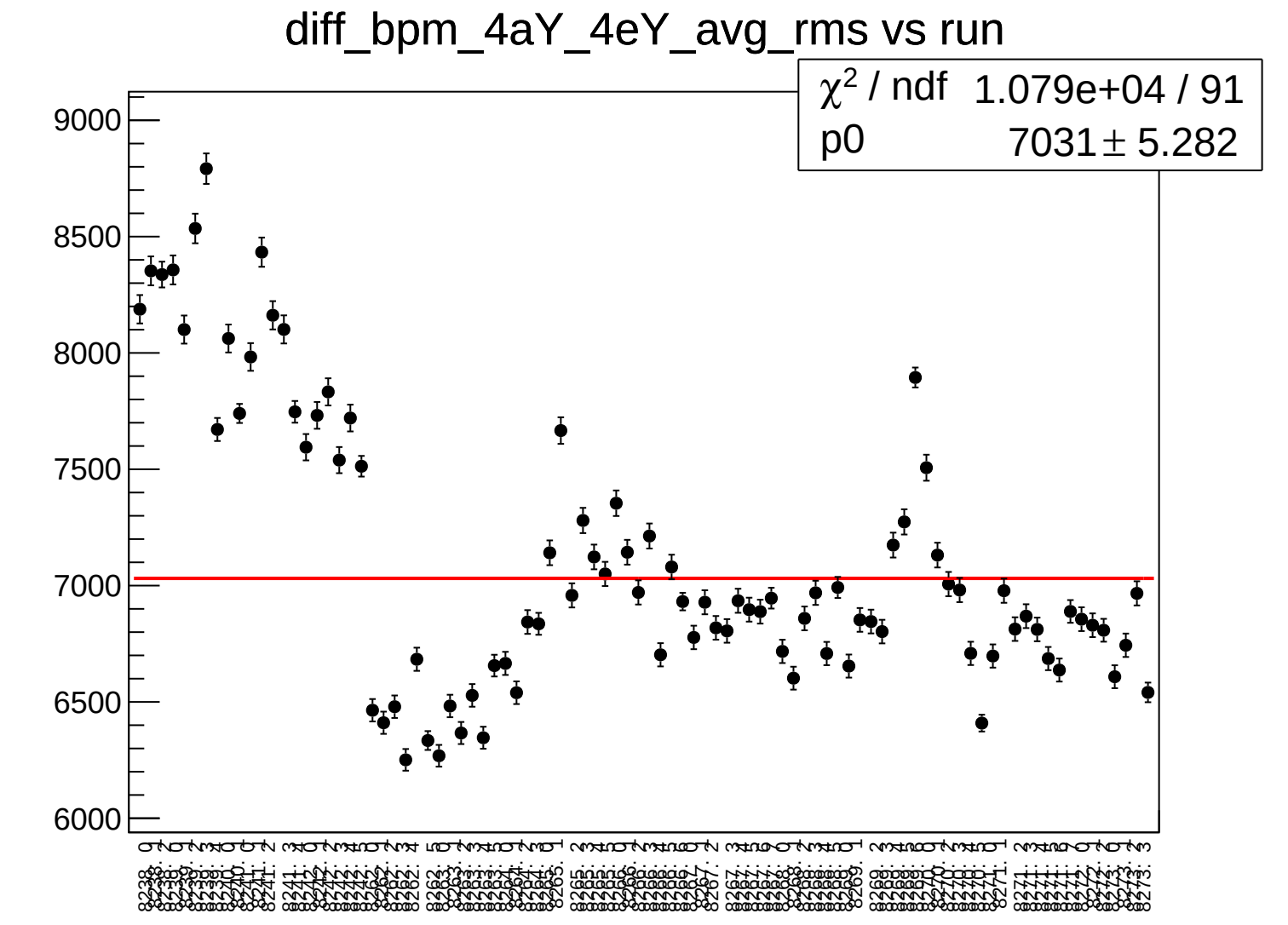

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 108.7 / 91
p0 0.1934 ± 0.9061
pull
Entries 92
Mean −597
Std Dev 0

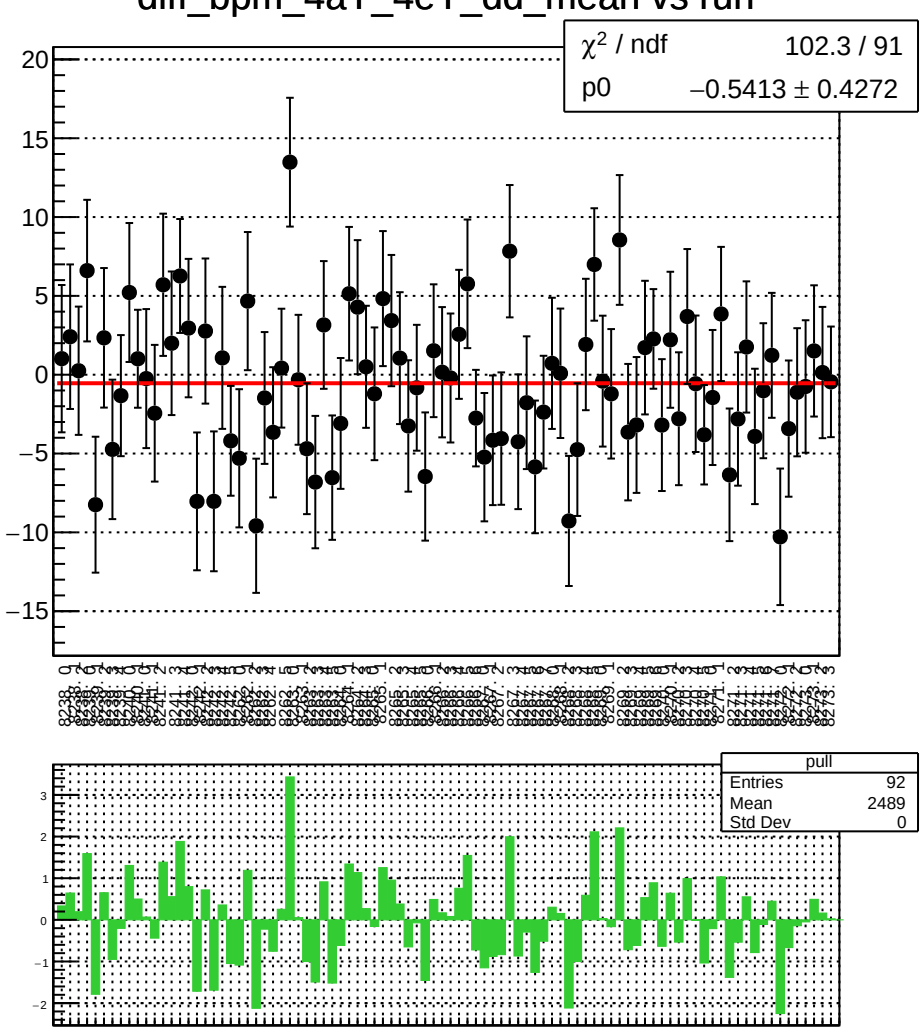

pull1D
Entries 92
Mean 0.005422
Std Dev 1.087

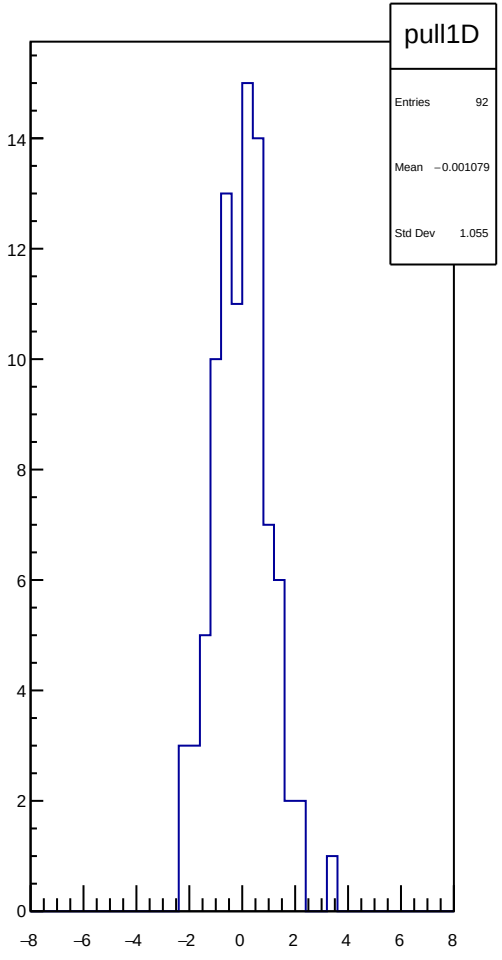

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 295.6 / 91
p0 855.4 ± 0.6407
900
890
880
870
860
850
840
830
820

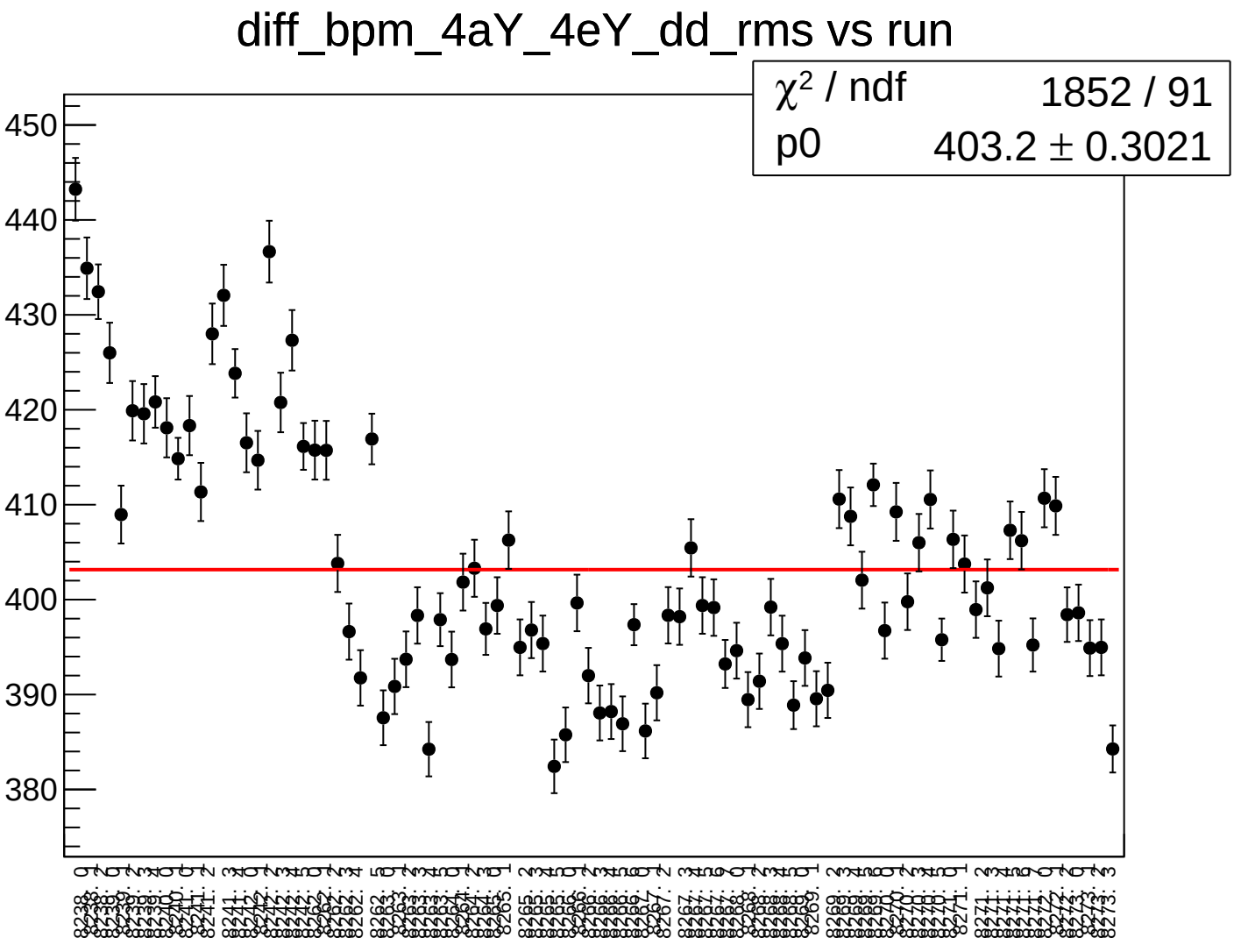

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 102 / 91
p0 0.6261 ± 7.47
pull
Entries 92
Mean −945.4
Std Dev 0

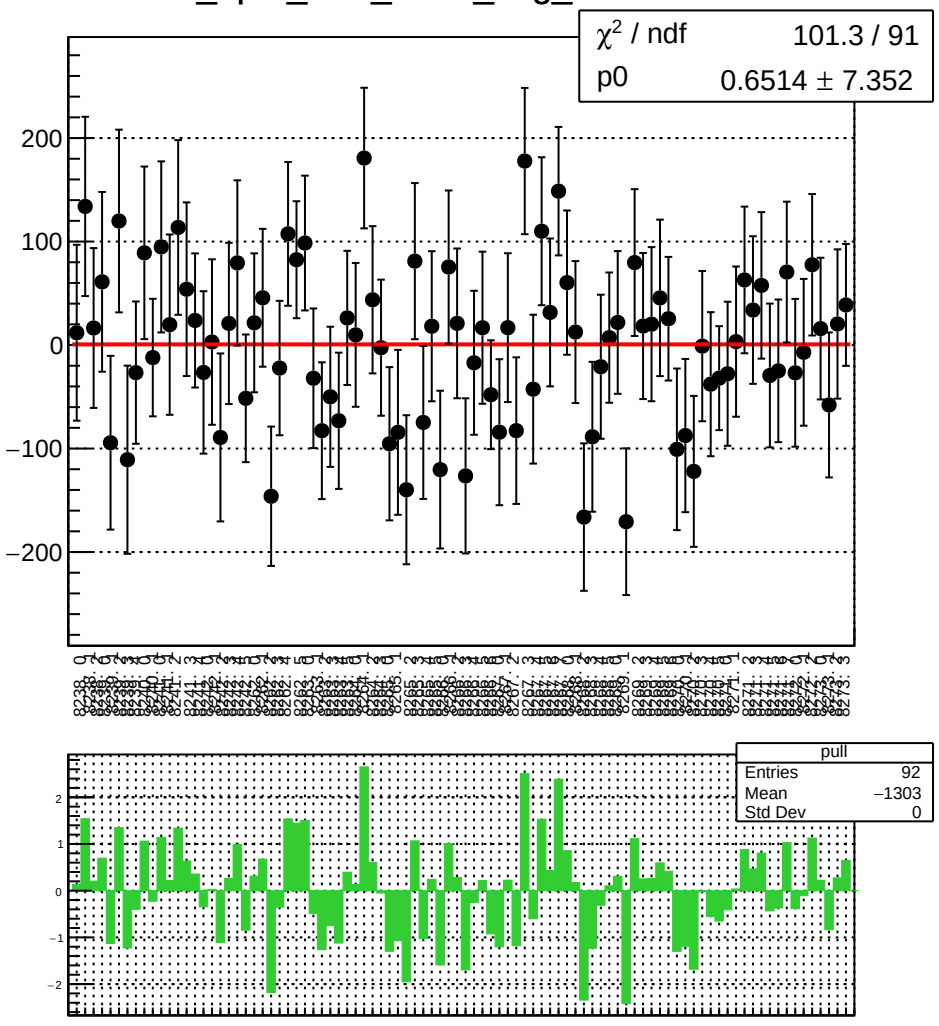

pull1D
Entries 92
Mean 0.002394
Std Dev 1.053

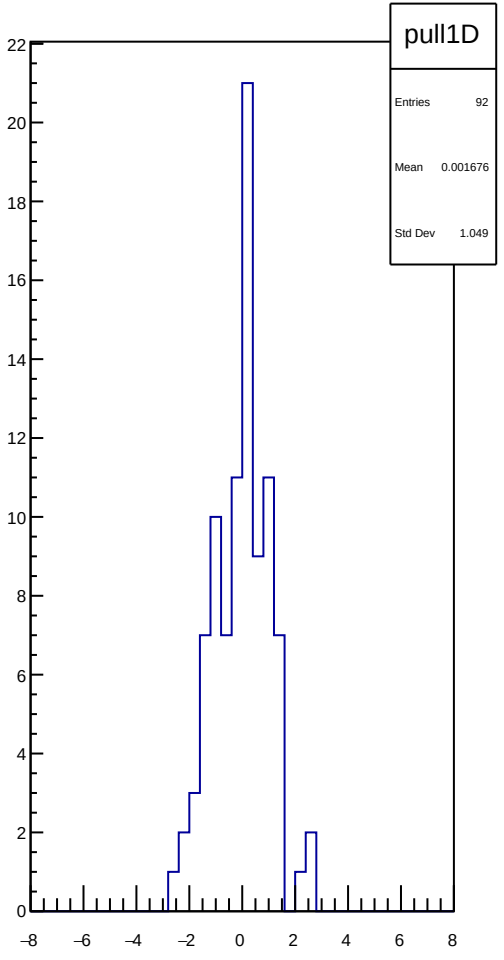

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 1.079e+04 / 91
p0 7031 ± 5.282
9000
8500
8000
7500
7000
6500
6000

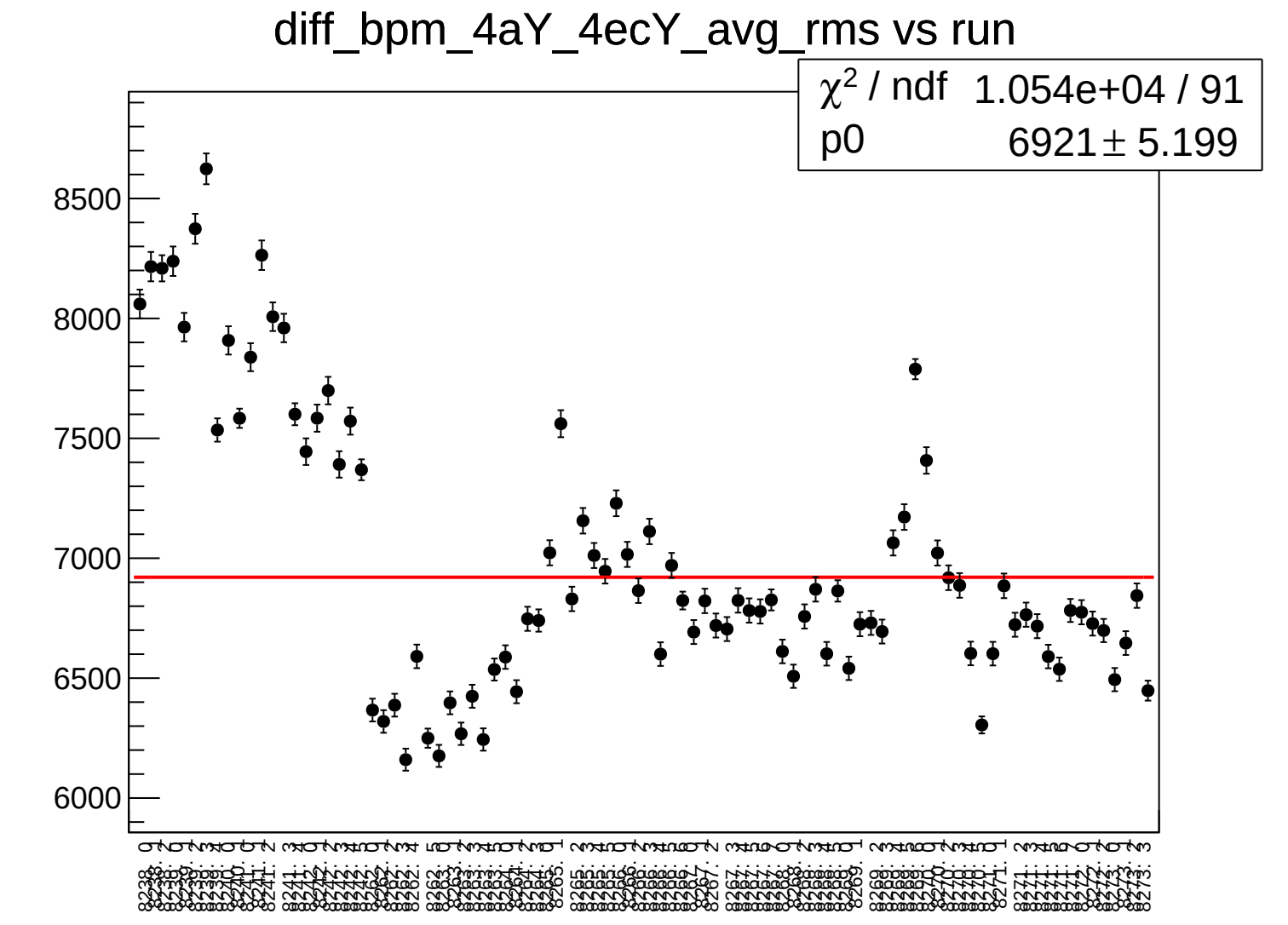

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 102.3 / 91
p0 −0.5413 ± 0.4272
pull
Entries 92
Mean 2489
Std Dev 0

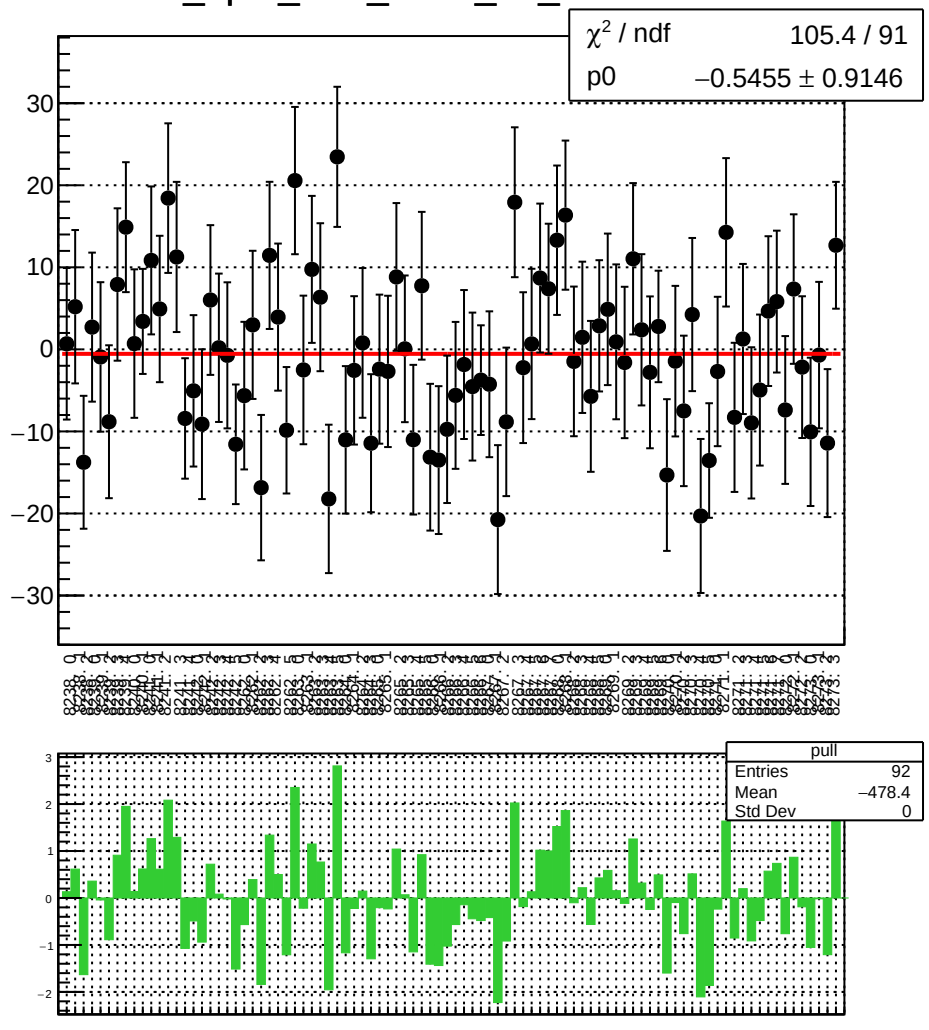

pull1D
Entries 92
Mean −0.001079
Std Dev 1.055

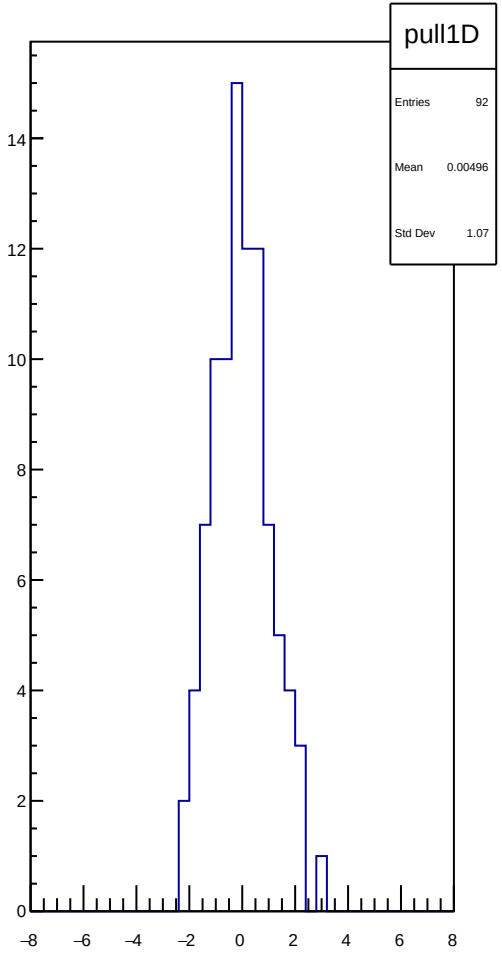

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1852 / 91
p0 403.2 ± 0.3021
450
440
430
420
410
400
390
380

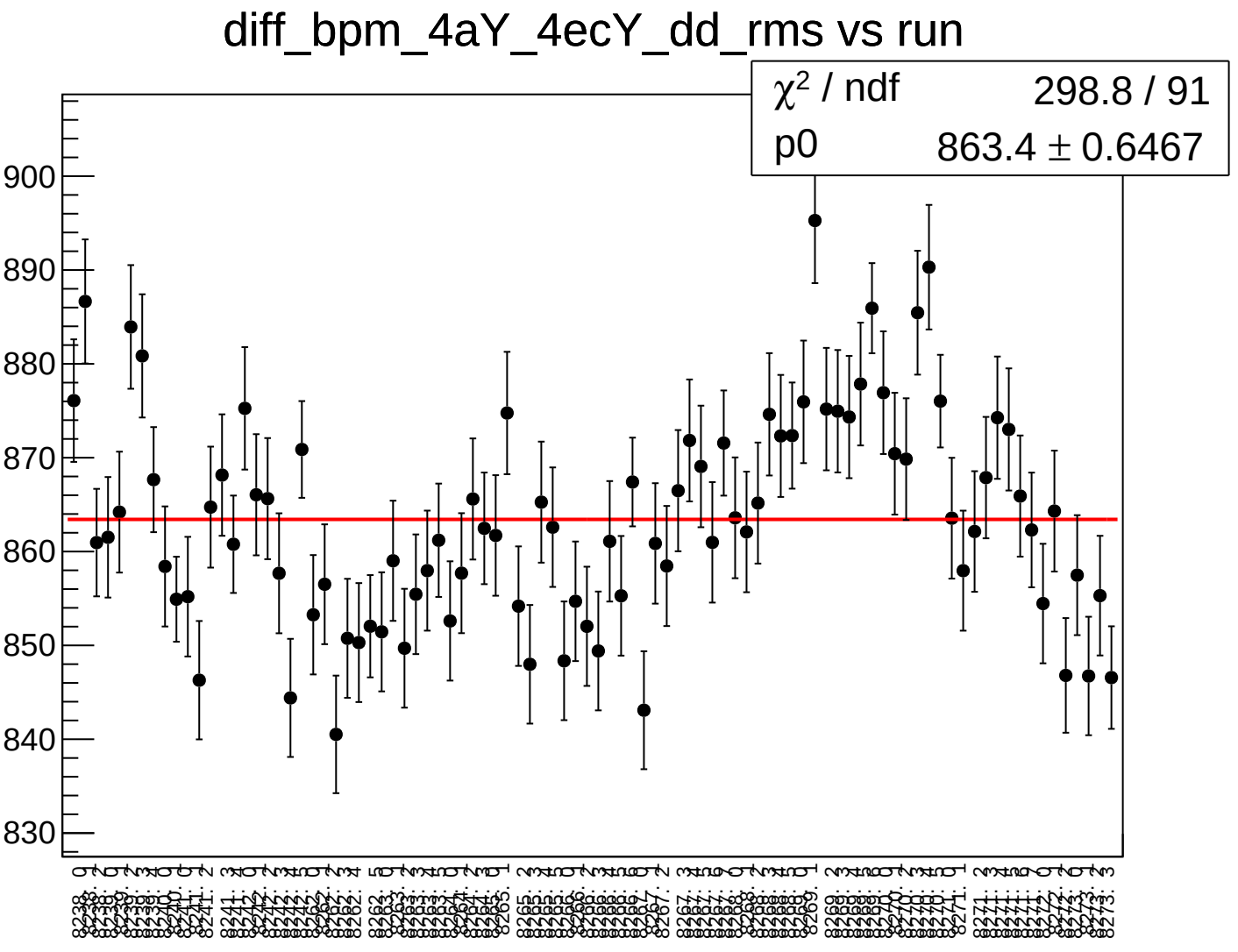

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 101.3 / 91
p0 0.6514 ± 7.352
200
100
0
−100
−200
pull
Entries 92
Mean −1303
Std Dev 0
2
1
0
−1
−2

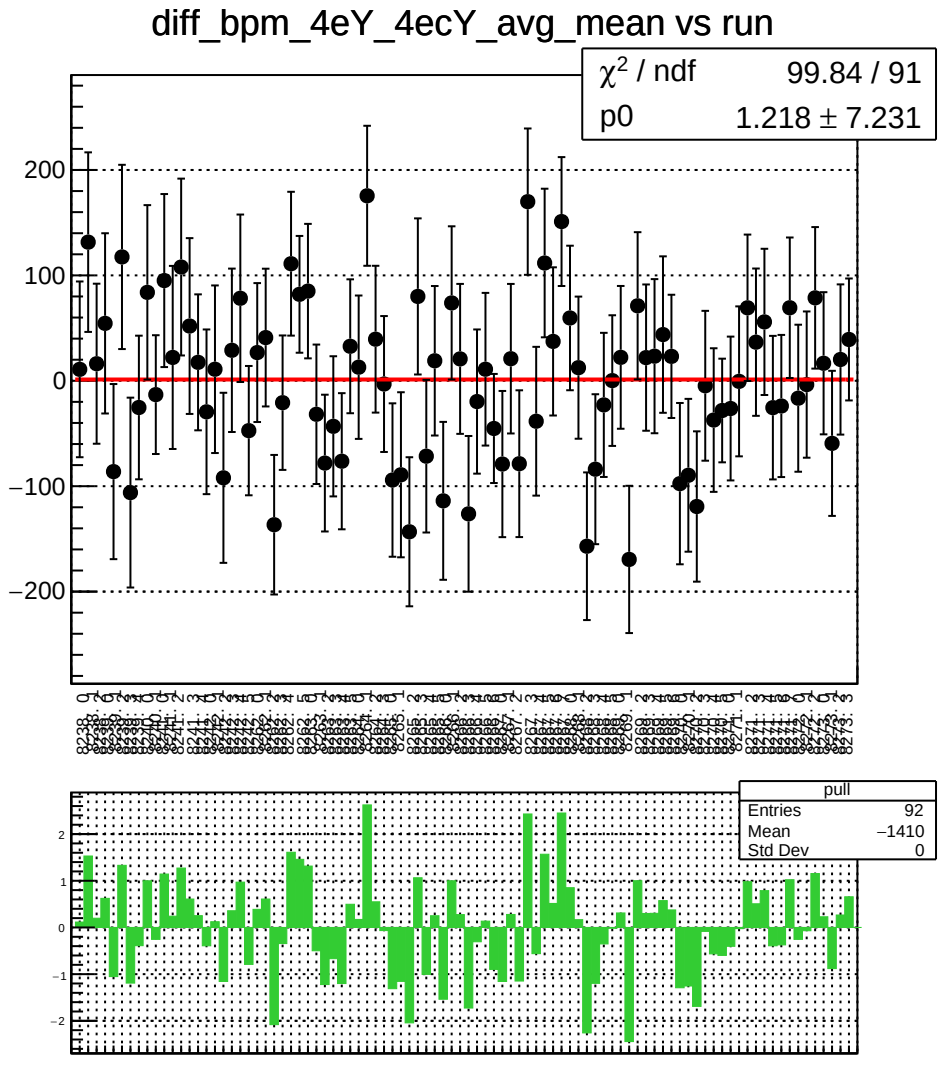

pull1D
Entries 92
Mean 0.001676
Std Dev 1.049
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

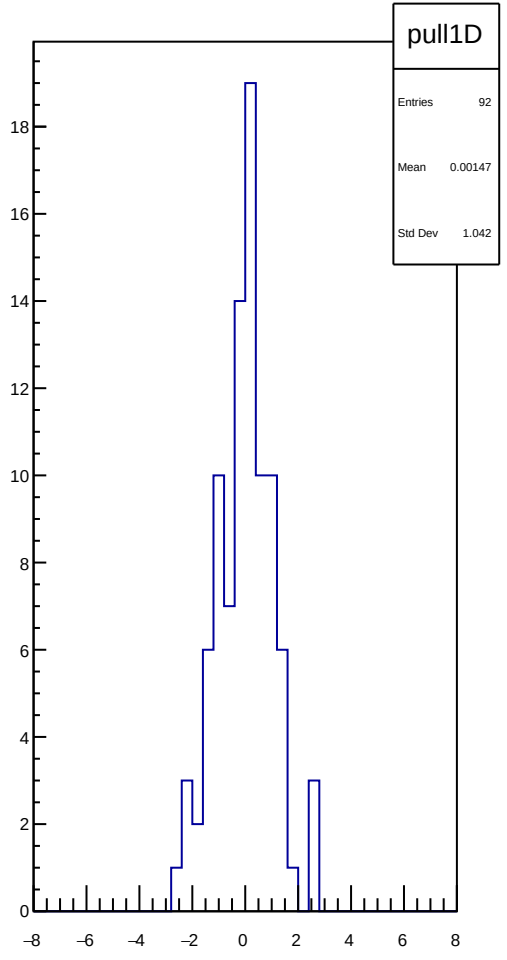

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 1.054e+04 / 91
p0 6921 ± 5.199
8500
8000
7500
7000
6500
6000

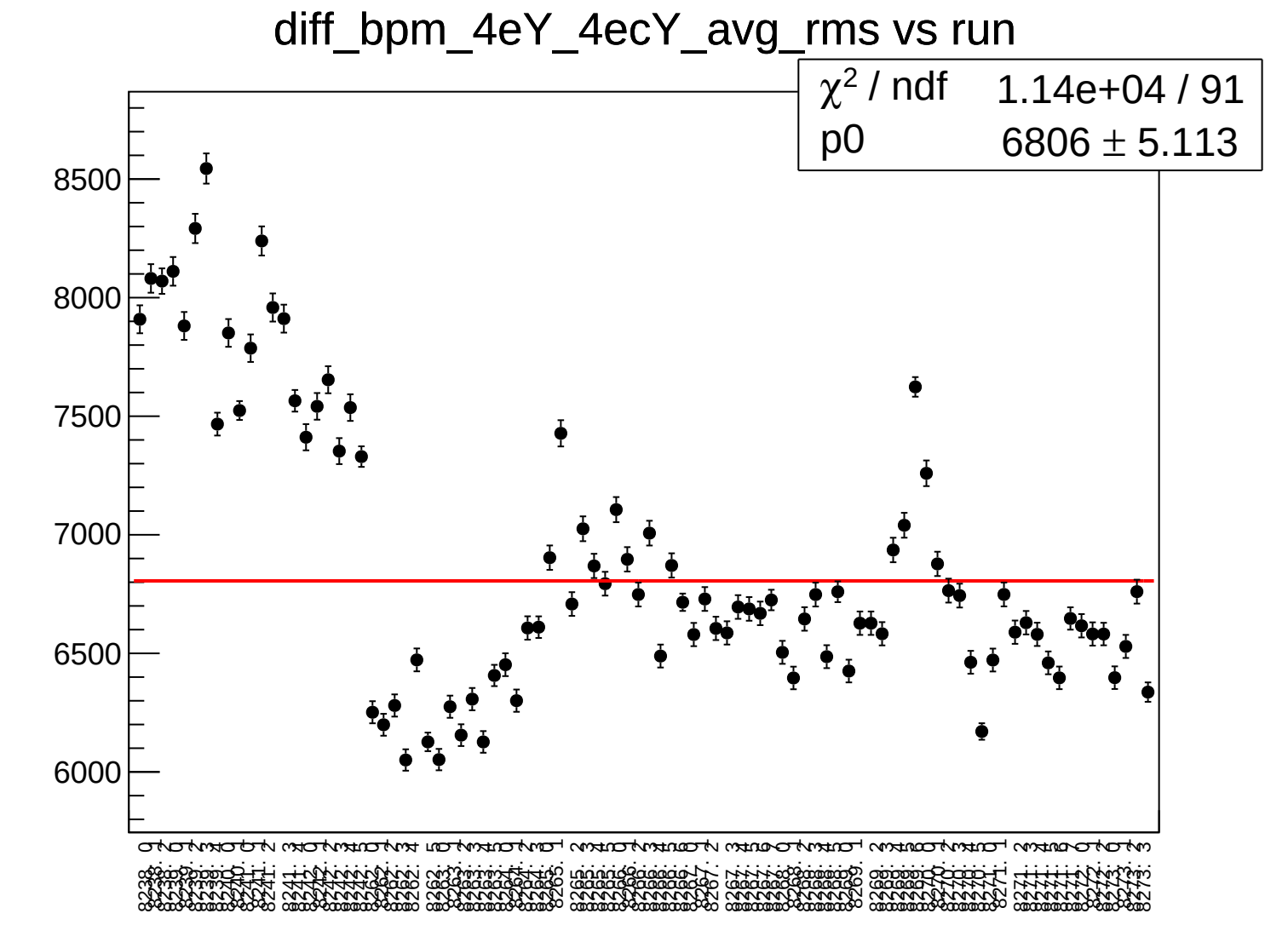

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 105.4 / 91
p0 −0.5455 ± 0.9146
pull
Entries 92
Mean −478.4
Std Dev 0

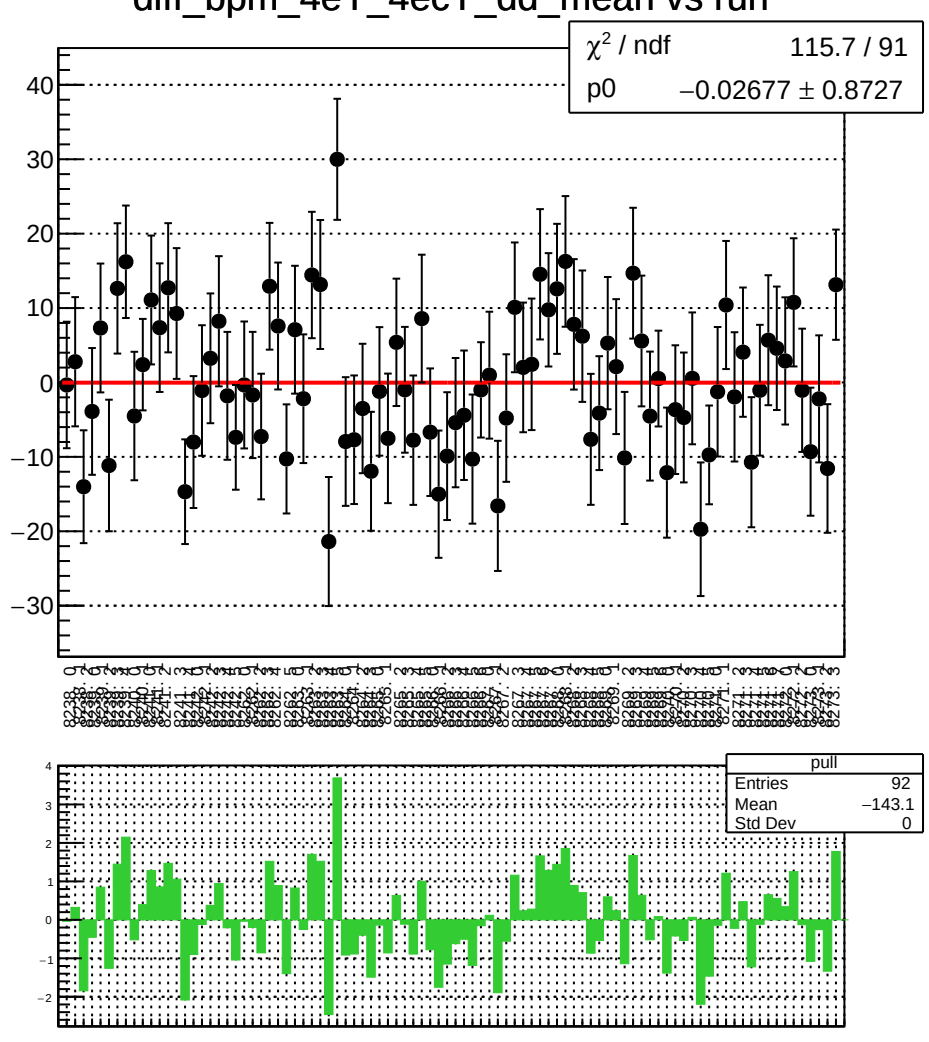

pull1D
Entries 92
Mean 0.00496
Std Dev 1.07

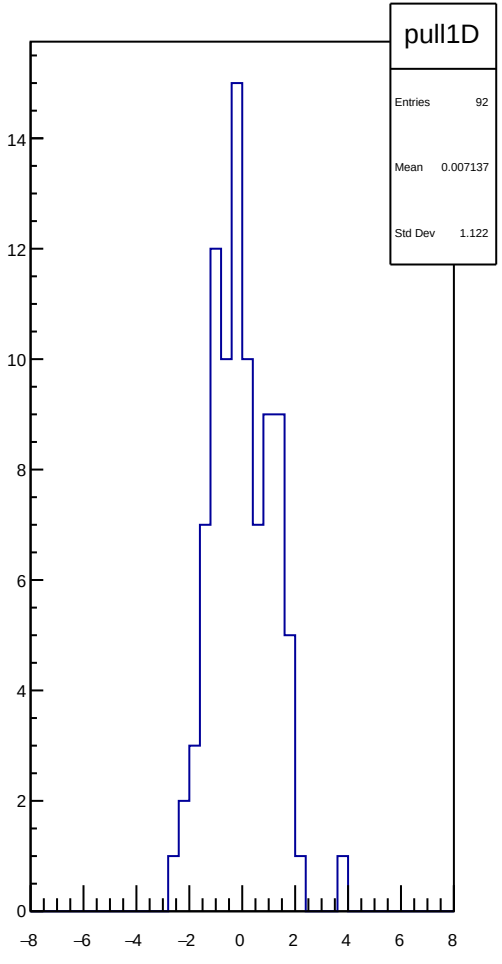

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 298.8 / 91
p0 863.4 ± 0.6467
900
890
880
870
860
850
840
830

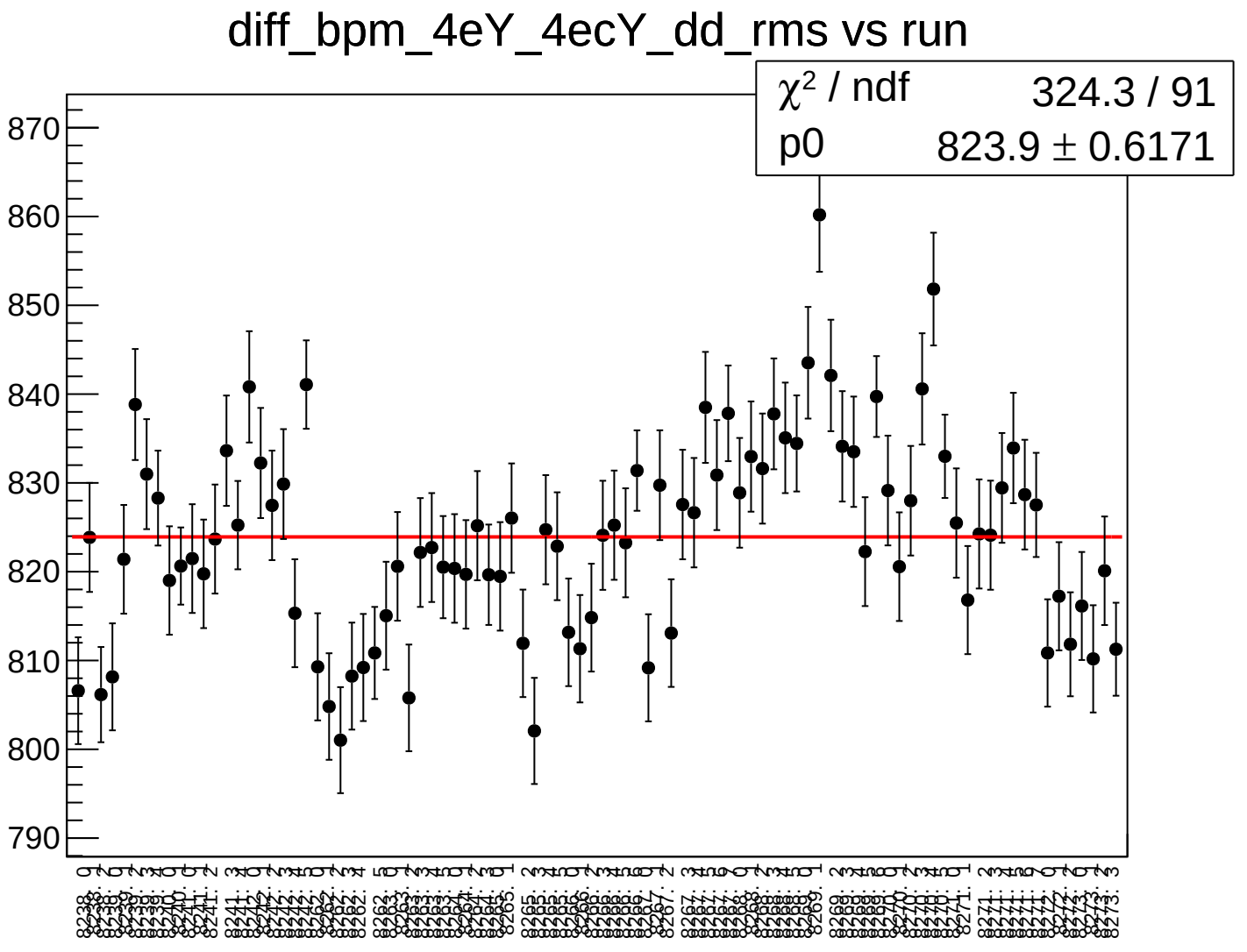

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 99.84 / 91
p0 1.218 ± 7.231
200
100
0
−100
−200
pull
Entries 92
Mean −1410
Std Dev 0
2
1
0
−1
−2

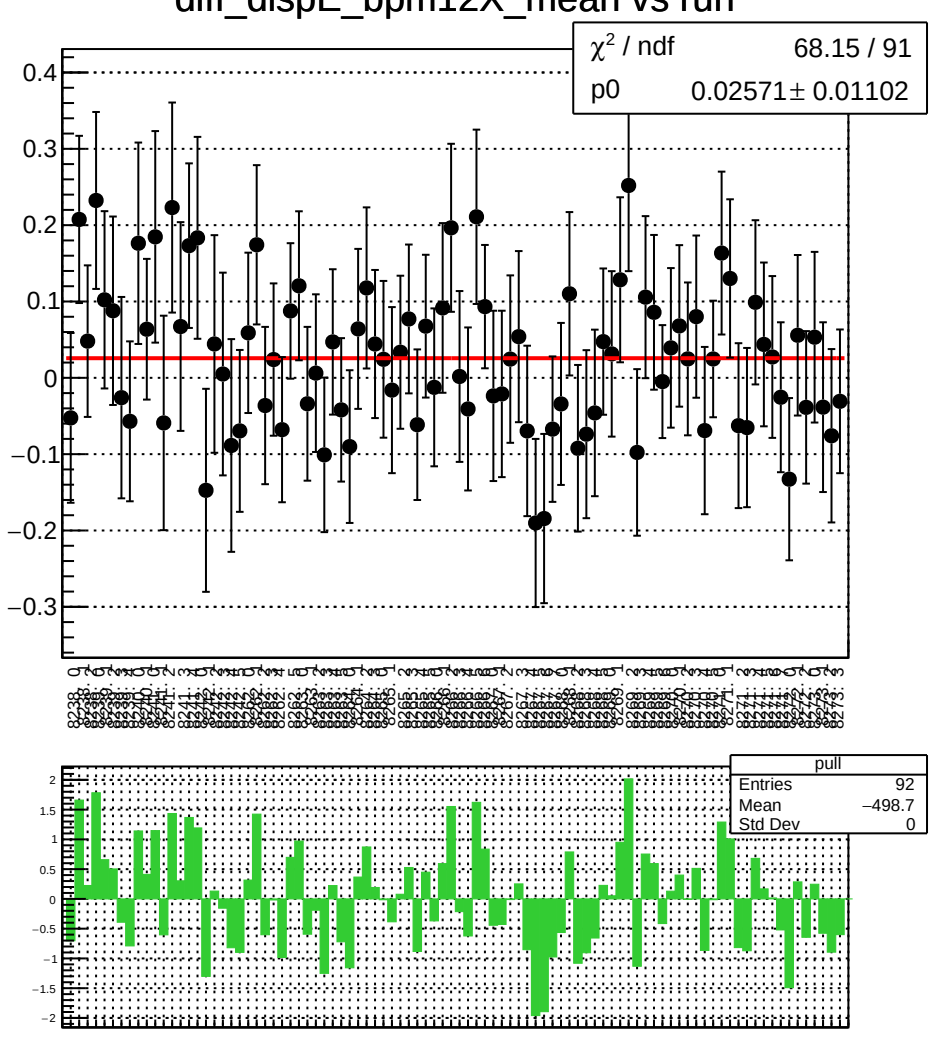

pull1D
Entries 92
Mean 0.00147
Std Dev 1.042
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

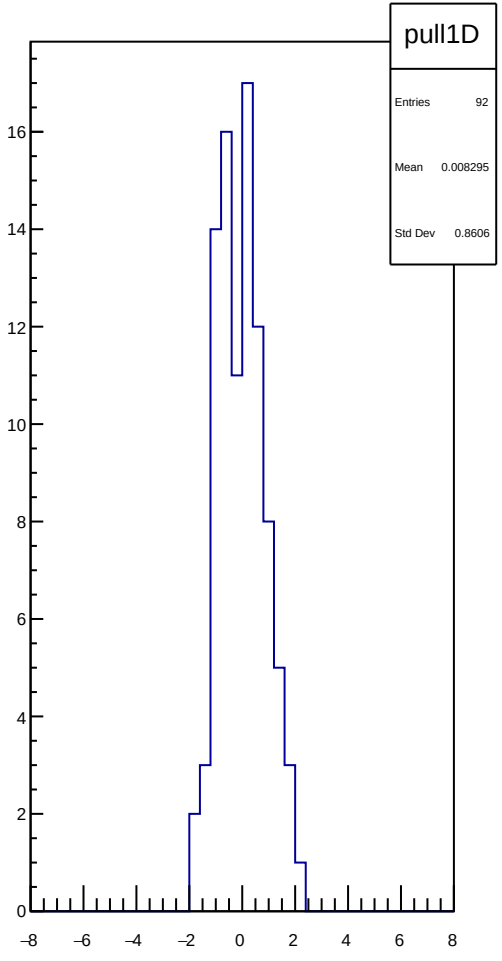

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 1.14e+04 / 91
p0 6806 ± 5.113
8500
8000
7500
7000
6500
6000

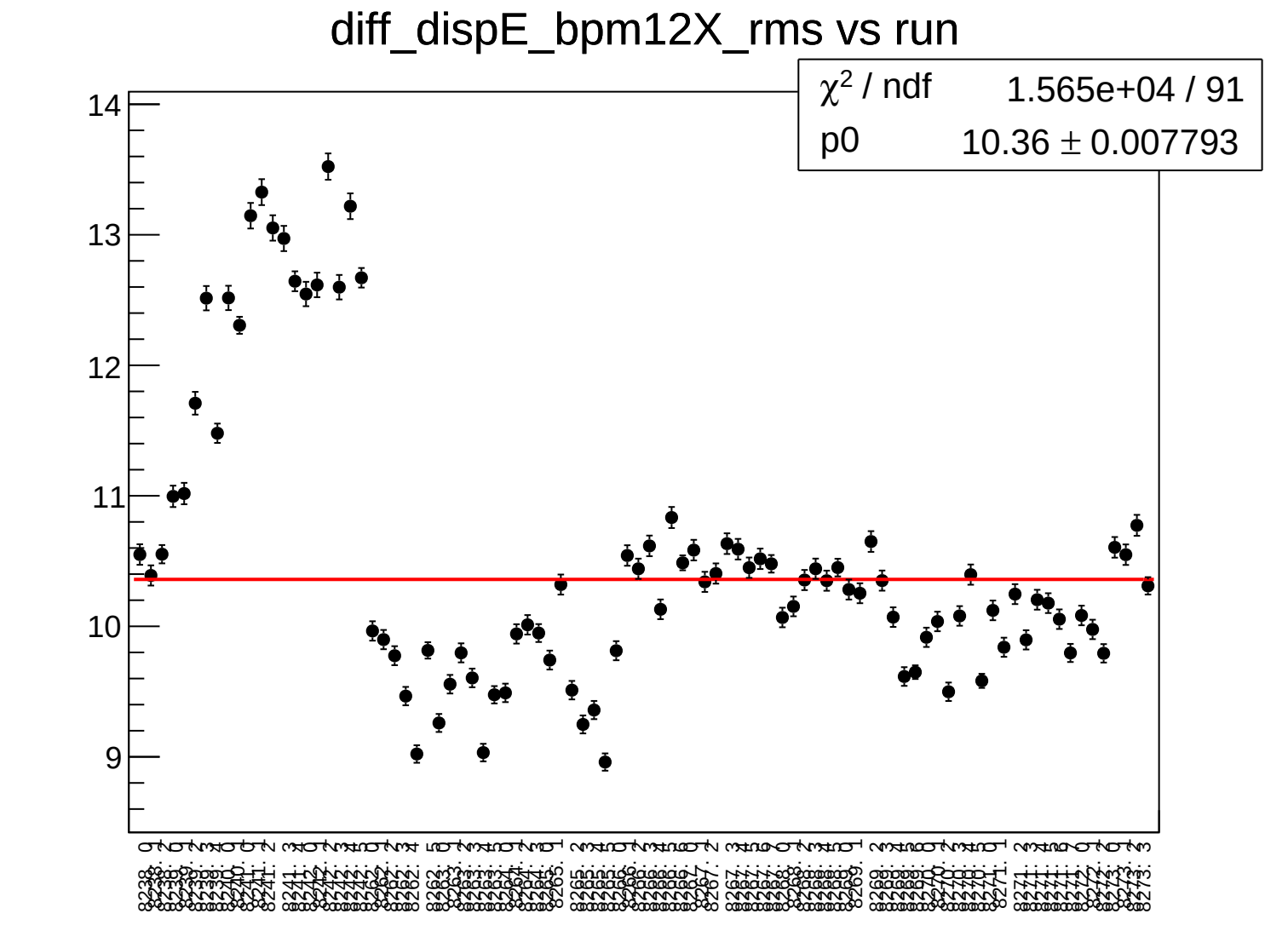

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 115.7 / 91
p0 −0.02677 ± 0.8727
pull
Entries 92
Mean −143.1
Std Dev 0

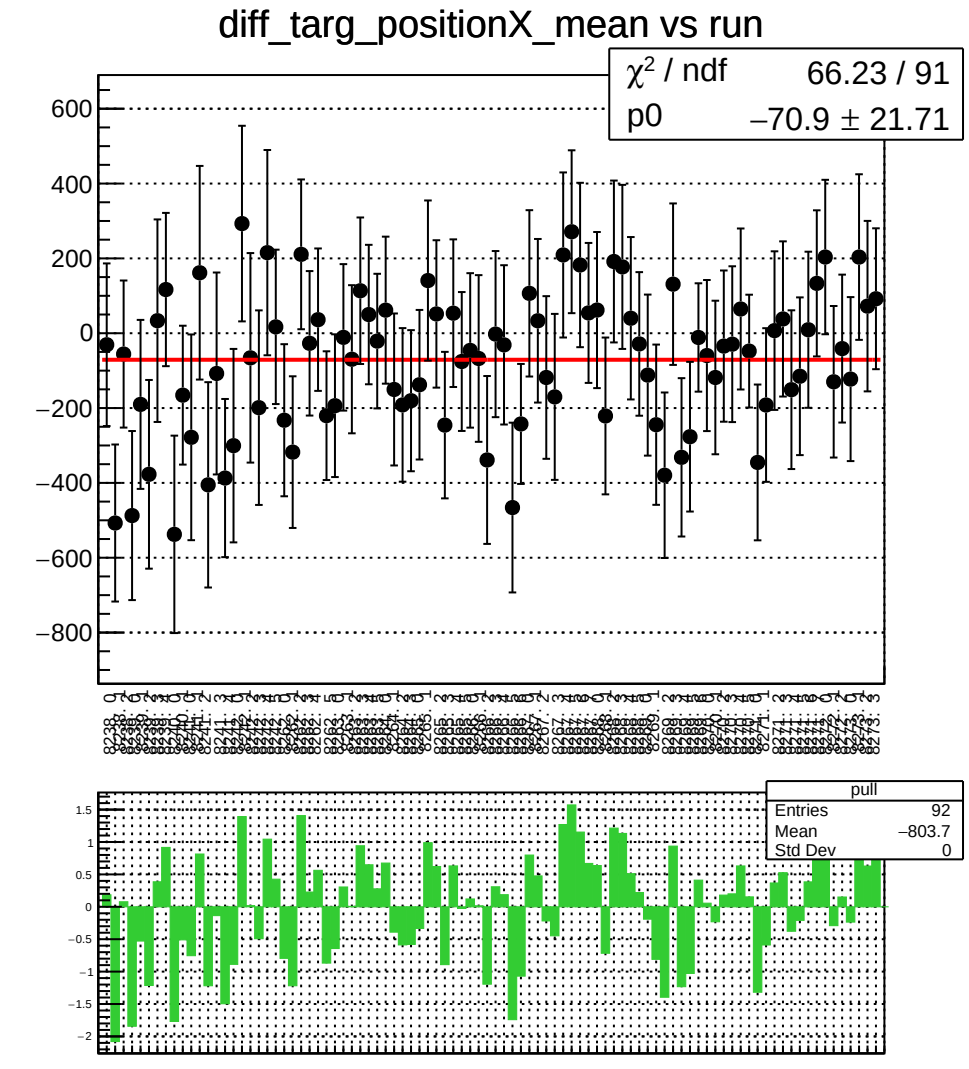

pull1D
Entries 92
Mean 0.007137
Std Dev 1.122

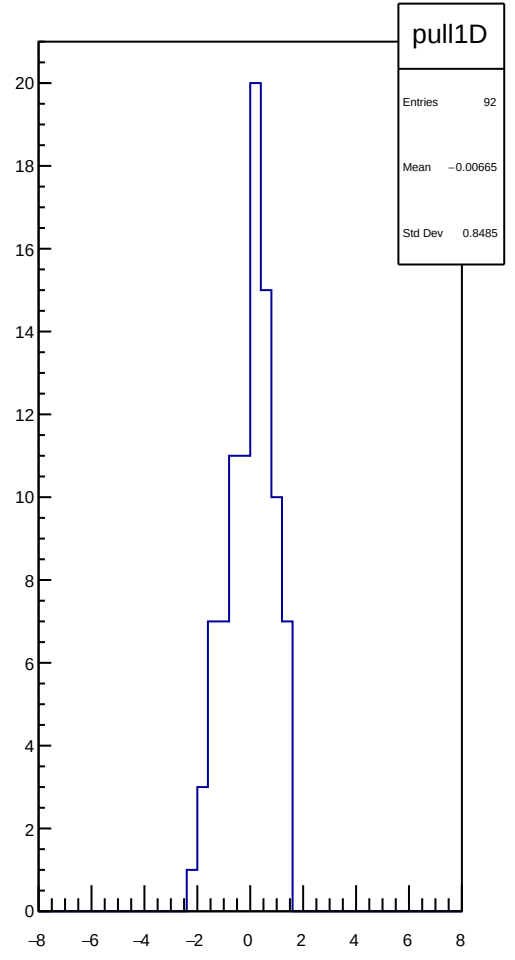

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 324.3 / 91
p0 823.9 ± 0.6171
870
860
850
840
830
820
810
800
790


diff_dispE_bpm12X_mean vs run
χ² / ndf 68.15 / 91
p0 0.02571 ± 0.01102
pull
Entries 92
Mean −498.7
Std Dev 0

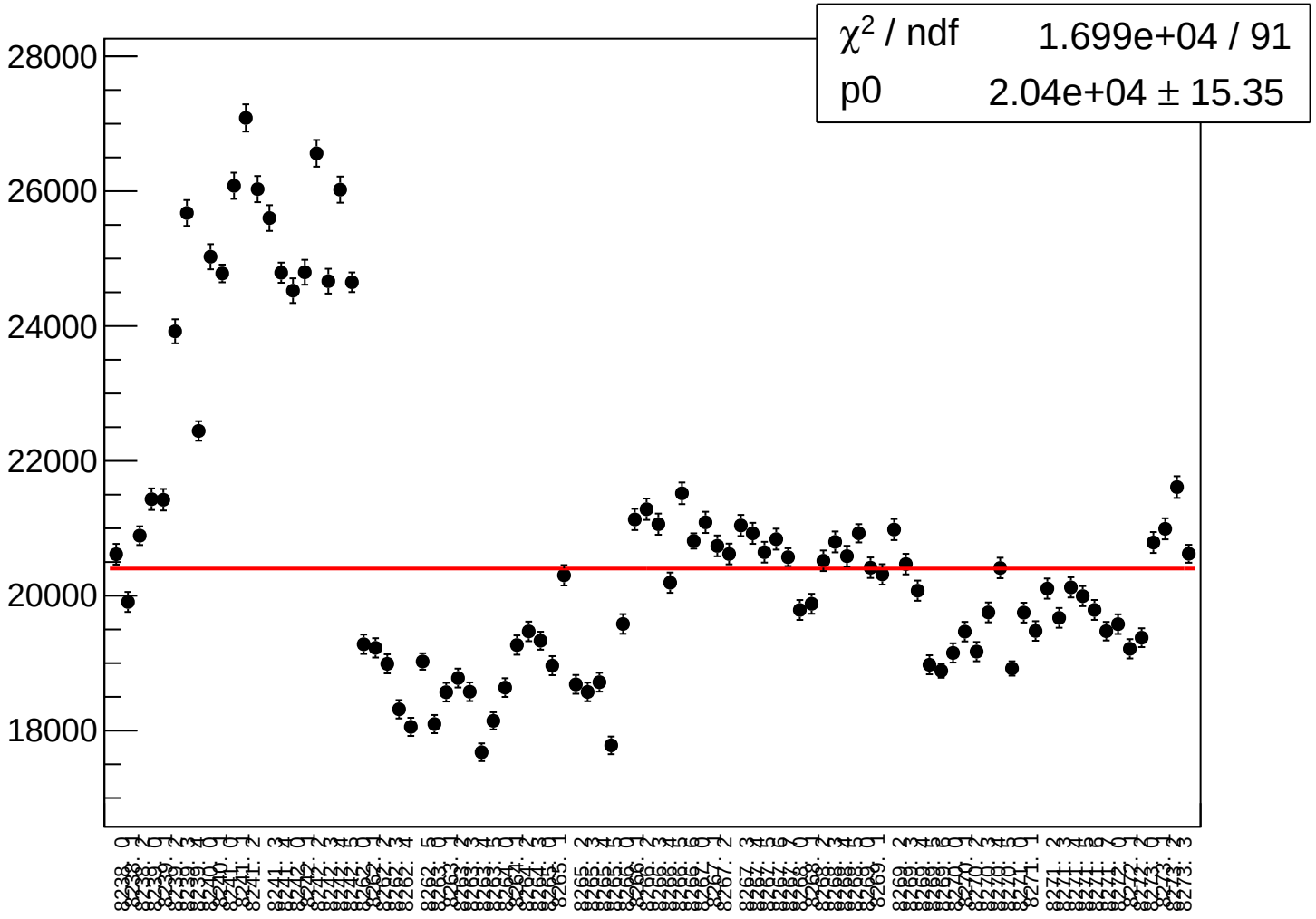

pull1D
Entries 92
Mean 0.008295
Std Dev 0.8606

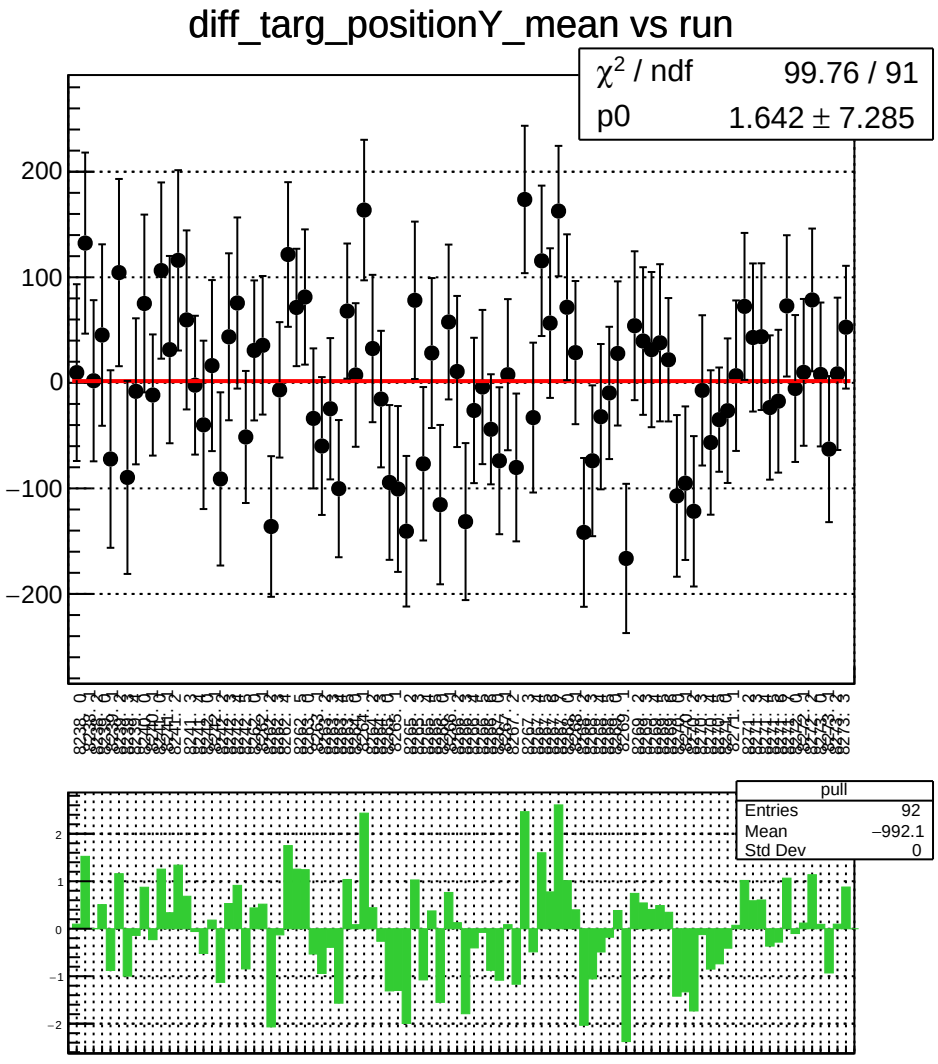

diff_dispE_bpm12X_rms vs run
χ² / ndf 1.565e+04 / 91
p0 10.36 ± 0.007793
14
13
12
11
10
9

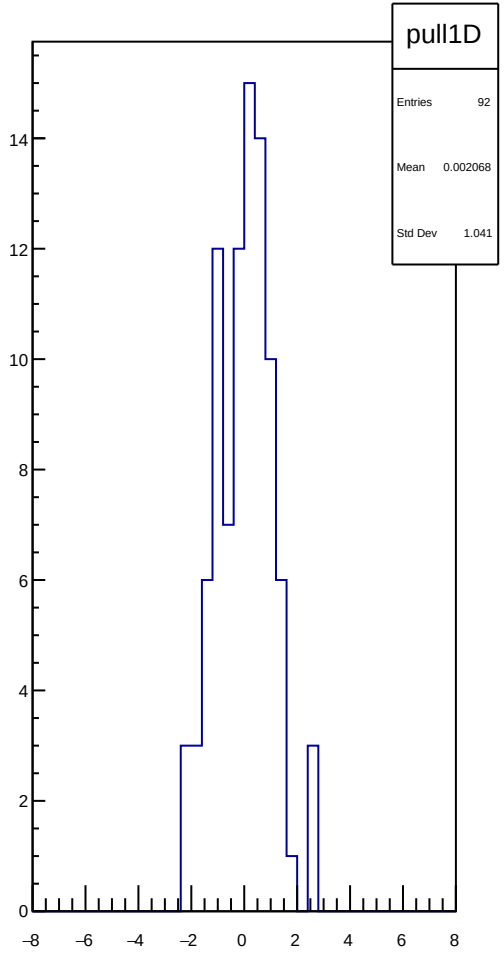

diff_targ_positionX_mean vs run
χ² / ndf 66.23 / 91
p0 −70.9 ± 21.71
pull
Entries 92
Mean −803.7
Std Dev 0

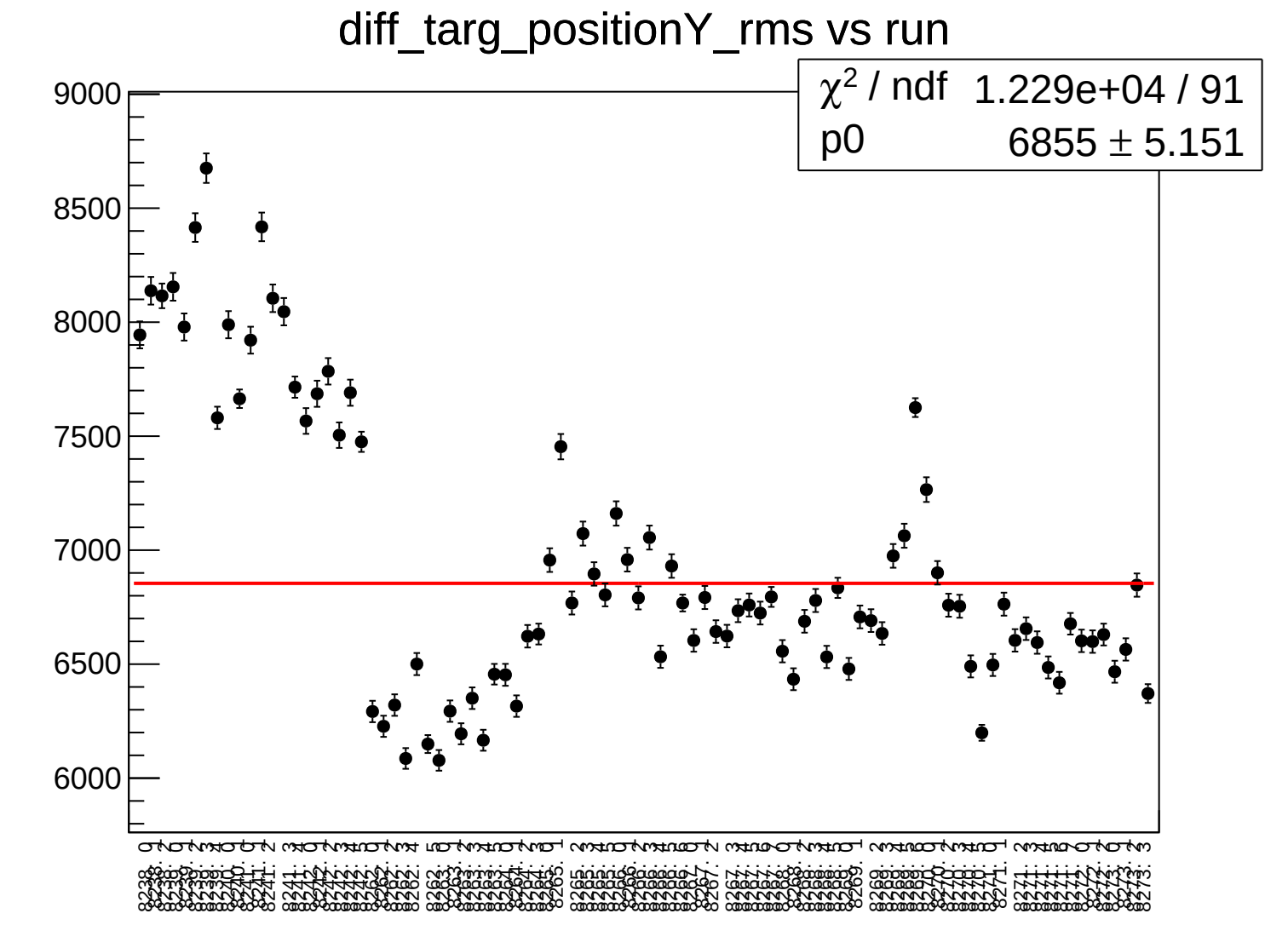

pull1D
Entries 92
Mean −0.00665
Std Dev 0.8485

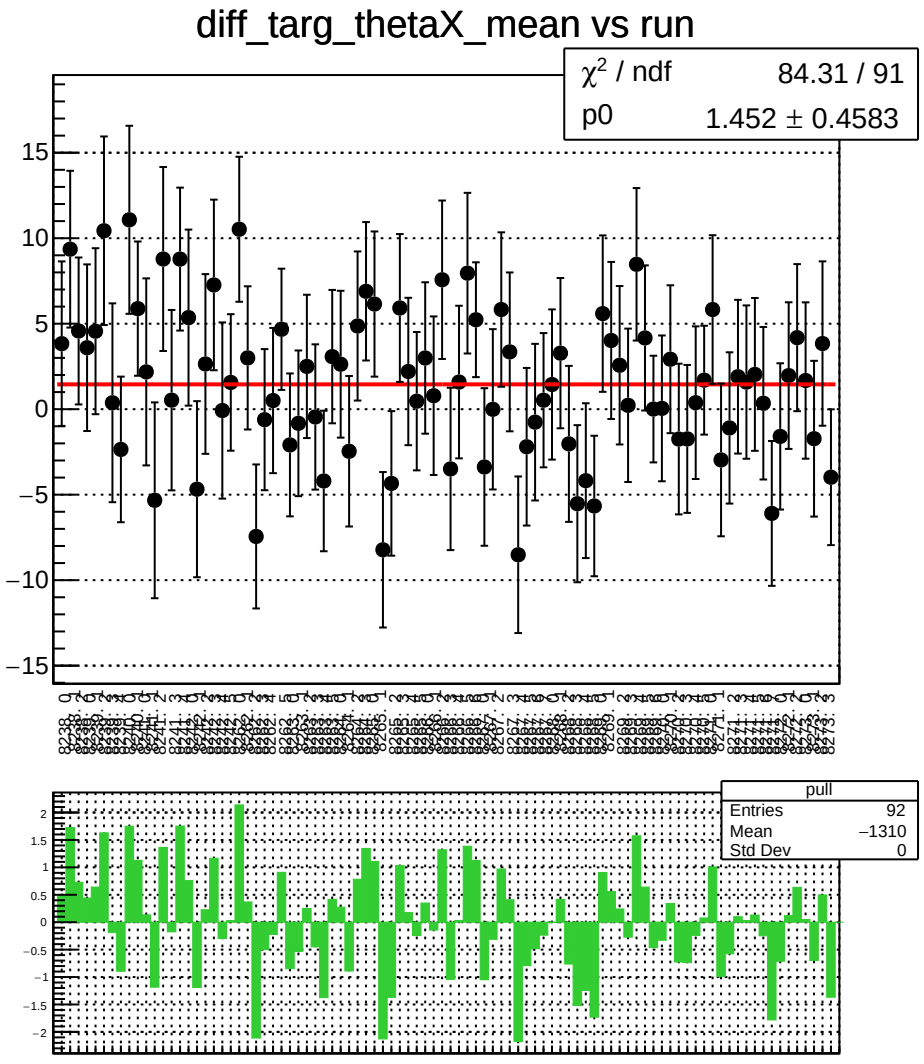
# diff_targ_positionX_rms vs run

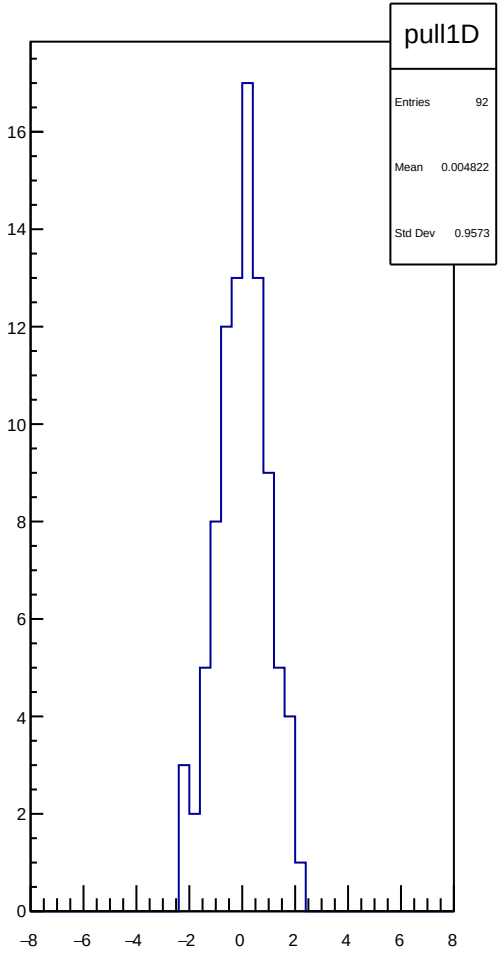


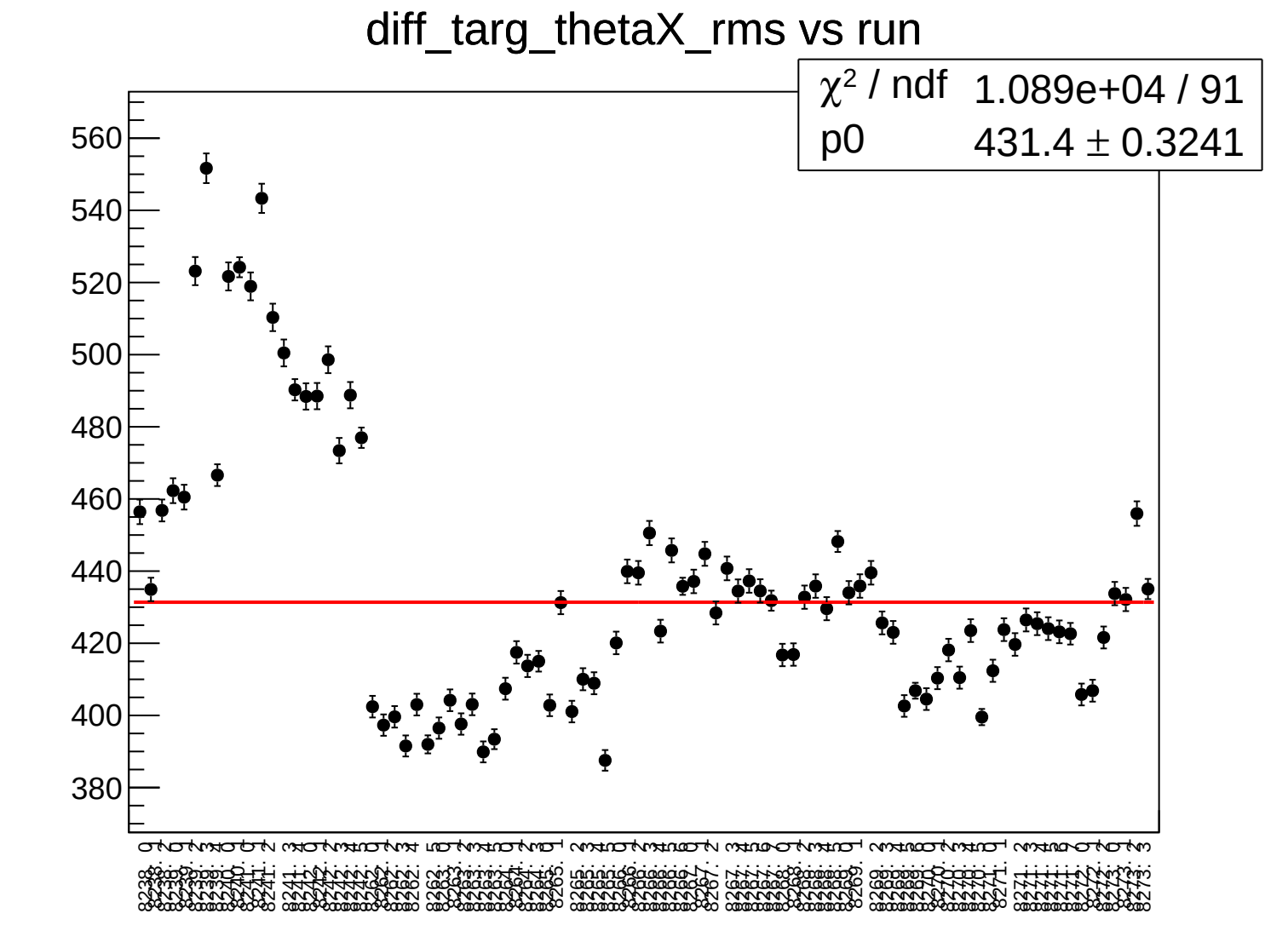

diff_targ_positionY_mean vs run
χ² / ndf 99.76 / 91
p0 1.642 ± 7.285
200
100
0
−100
−200
pull
Entries 92
Mean −992.1
Std Dev 0
2
1
0
−1
−2

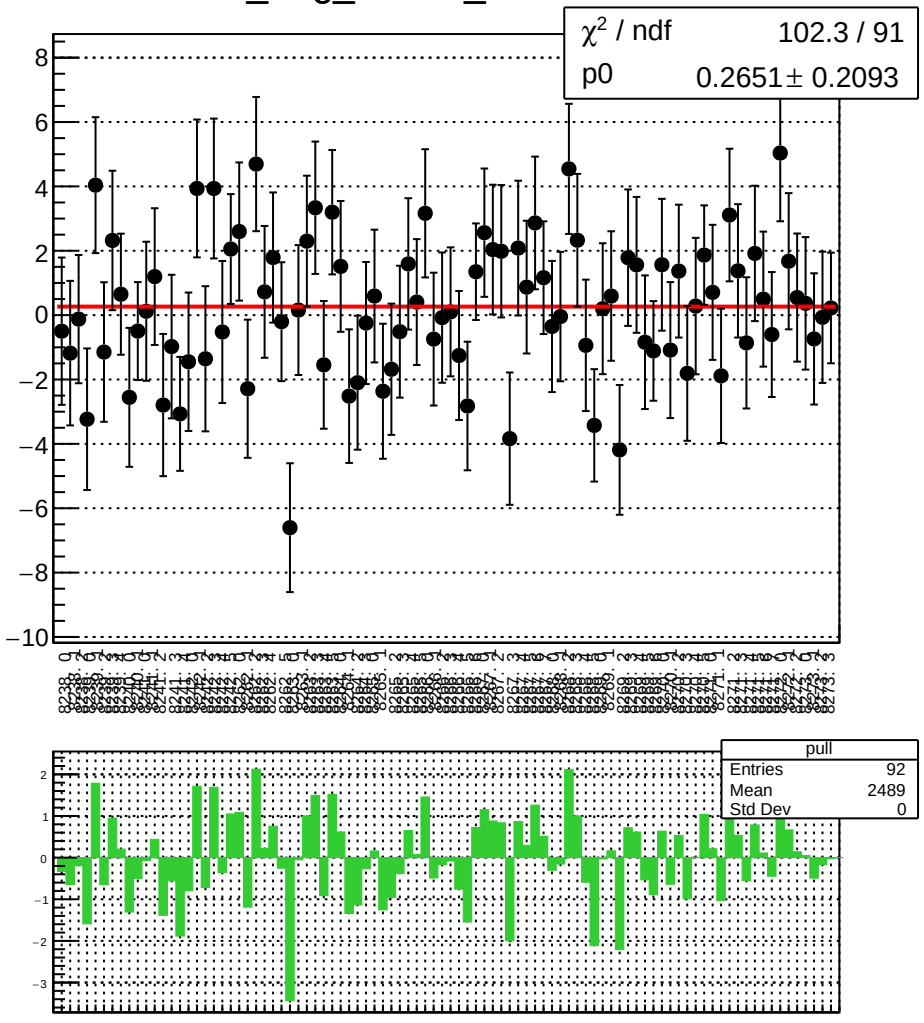

pull1D
Entries 92
Mean 0.002068
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

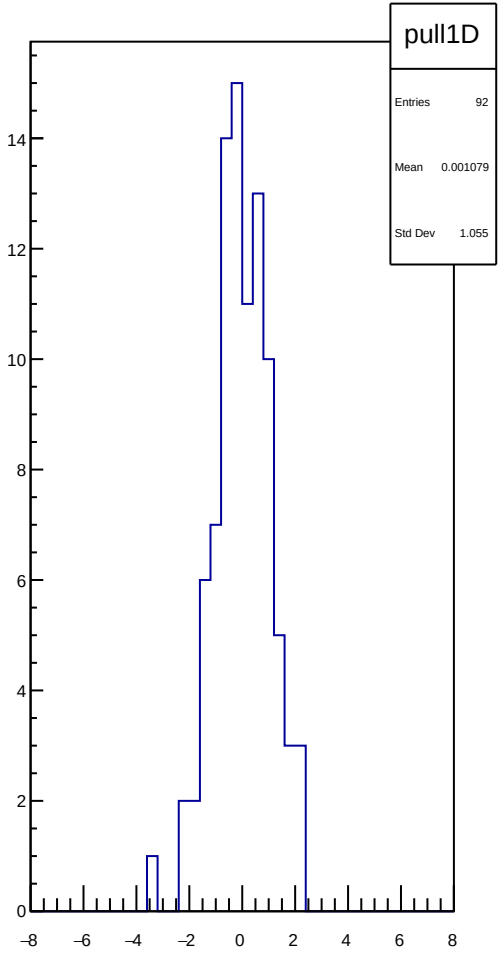

diff_targ_positionY_rms vs run
χ² / ndf 1.229e+04 / 91
p0 6855 ± 5.151
9000
8500
8000
7500
7000
6500
6000

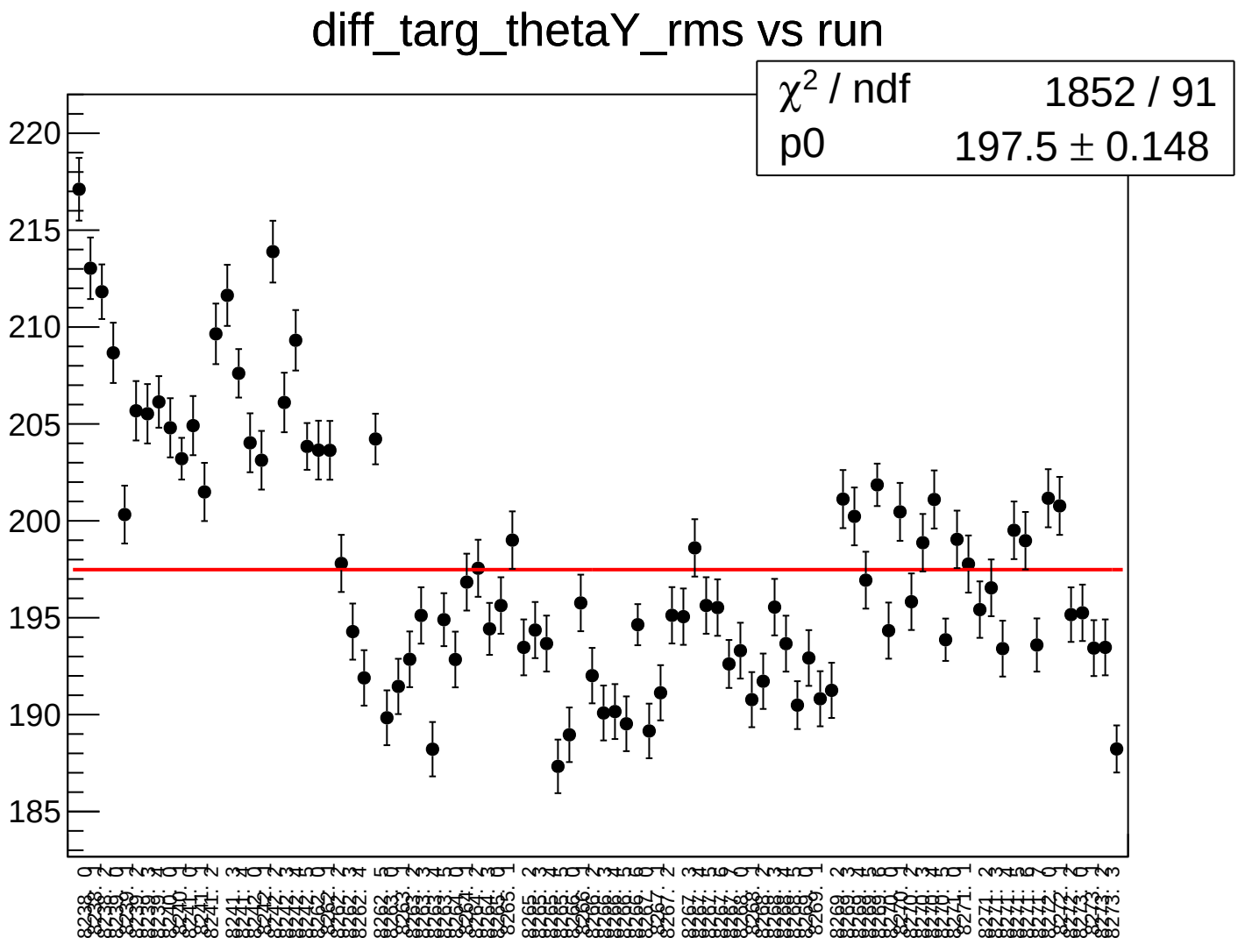

diff_targ_thetaX_mean vs run
χ² / ndf 84.31 / 91
p0 1.452 ± 0.4583
pull
Entries 92
Mean −1310
Std Dev 0

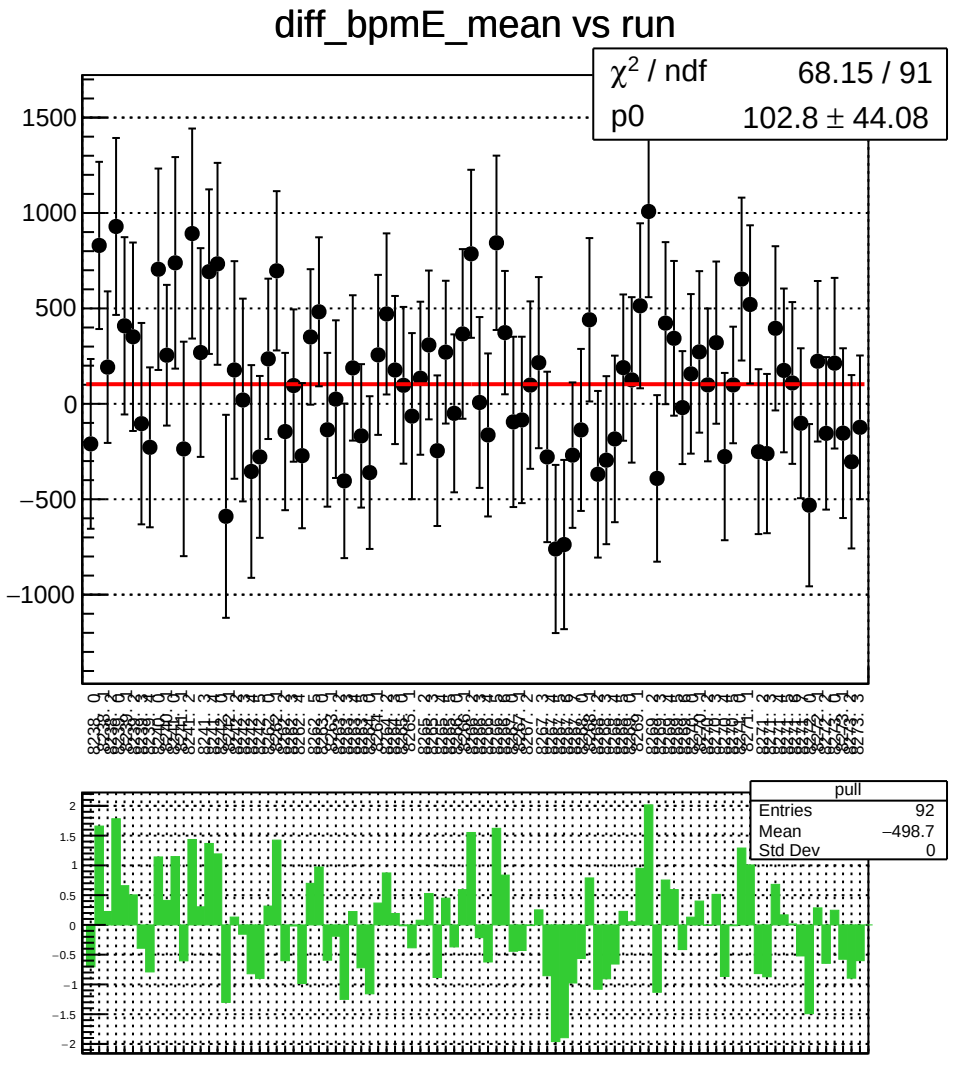

pull1D
Entries 92
Mean 0.004822
Std Dev 0.9573

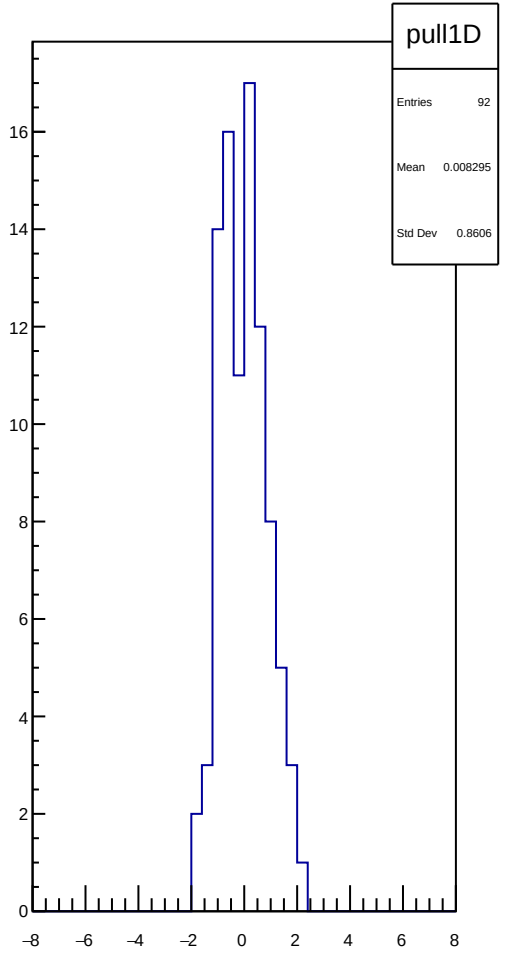

diff_targ_thetaX_rms vs run
χ² / ndf 1.089e+04 / 91
p0 431.4 ± 0.3241
560
540
520
500
480
460
440
420
400
380

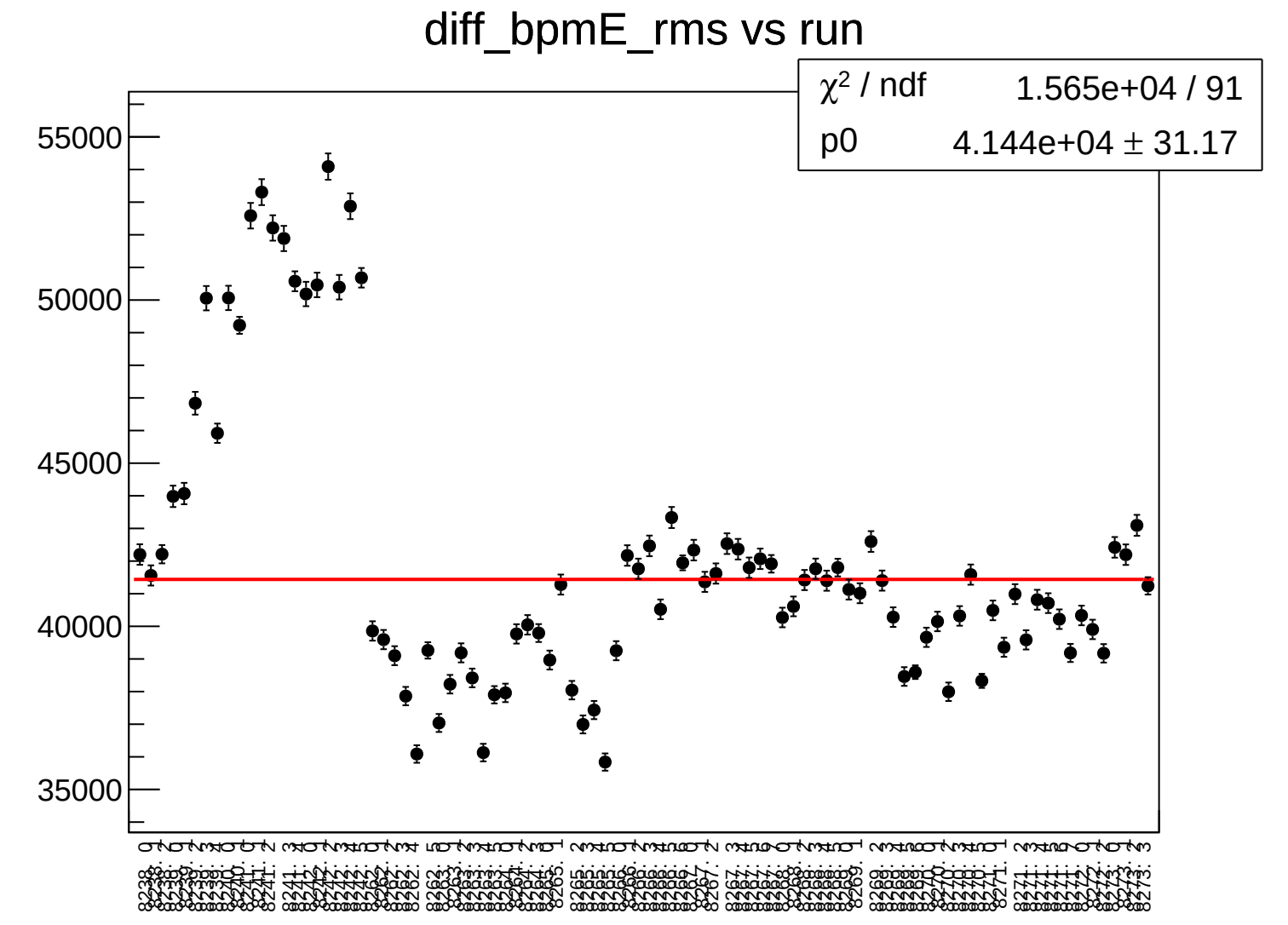

diff_targ_thetaY_mean vs run
χ² / ndf 102.3 / 91
p0 0.2651 ± 0.2093
pull
Entries 92
Mean 2489
Std Dev 0

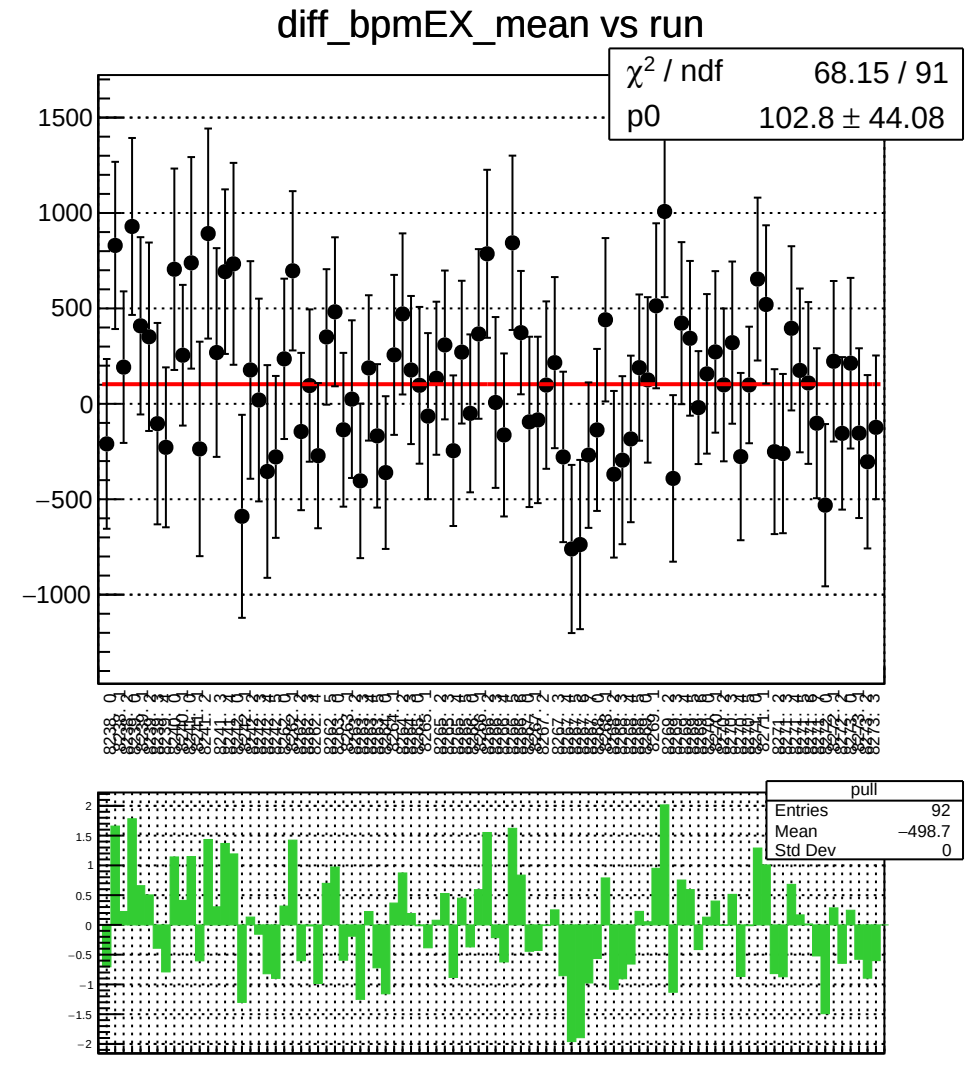

pull1D
Entries 92
Mean 0.001079
Std Dev 1.055

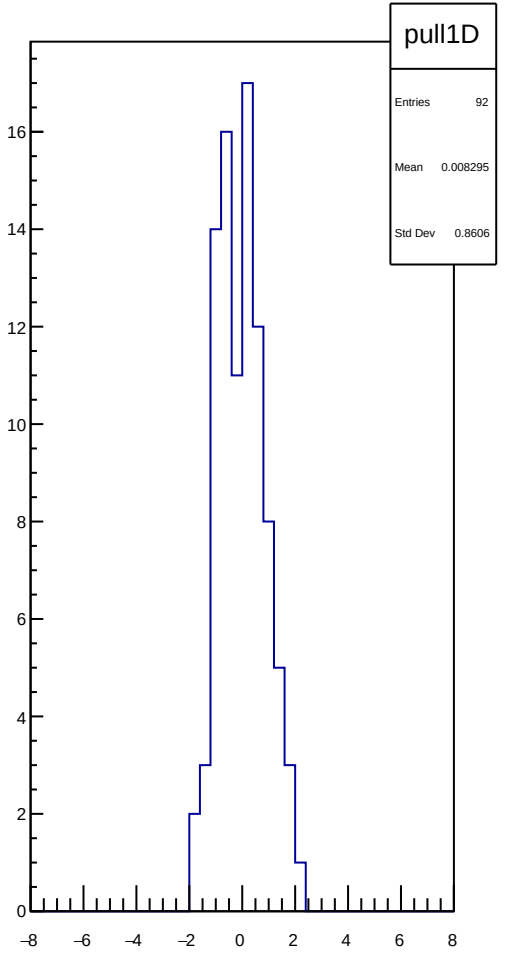

diff_targ_thetaY_rms vs run
χ² / ndf 1852 / 91
p0 197.5 ± 0.148
220
215
210
205
200
195
190
185

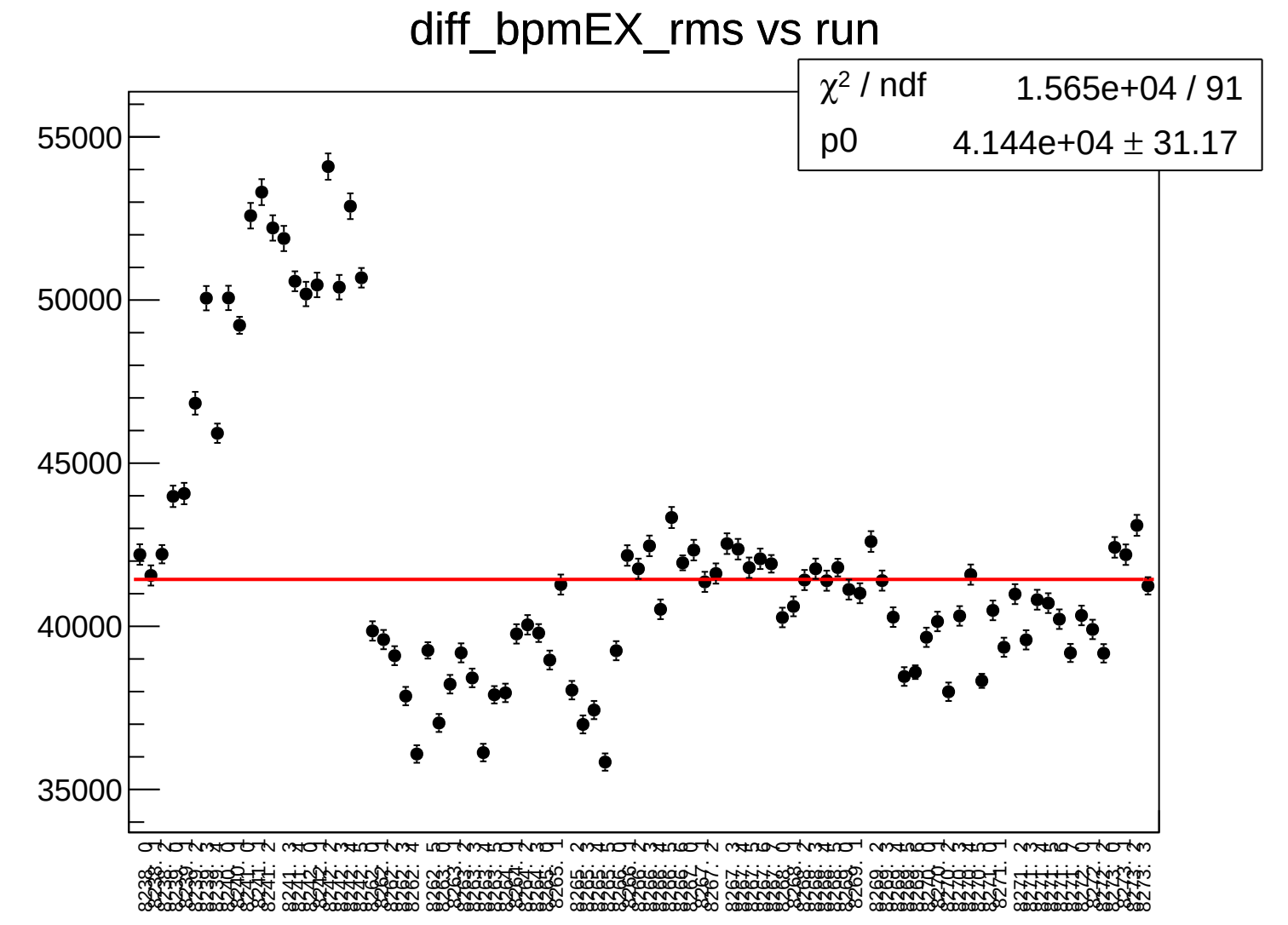

diff_bpmE_mean vs run
χ² / ndf 68.15 / 91
p0 102.8 ± 44.08
1500
1000
500
0
−500
−1000
pull
Entries 92
Mean −498.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

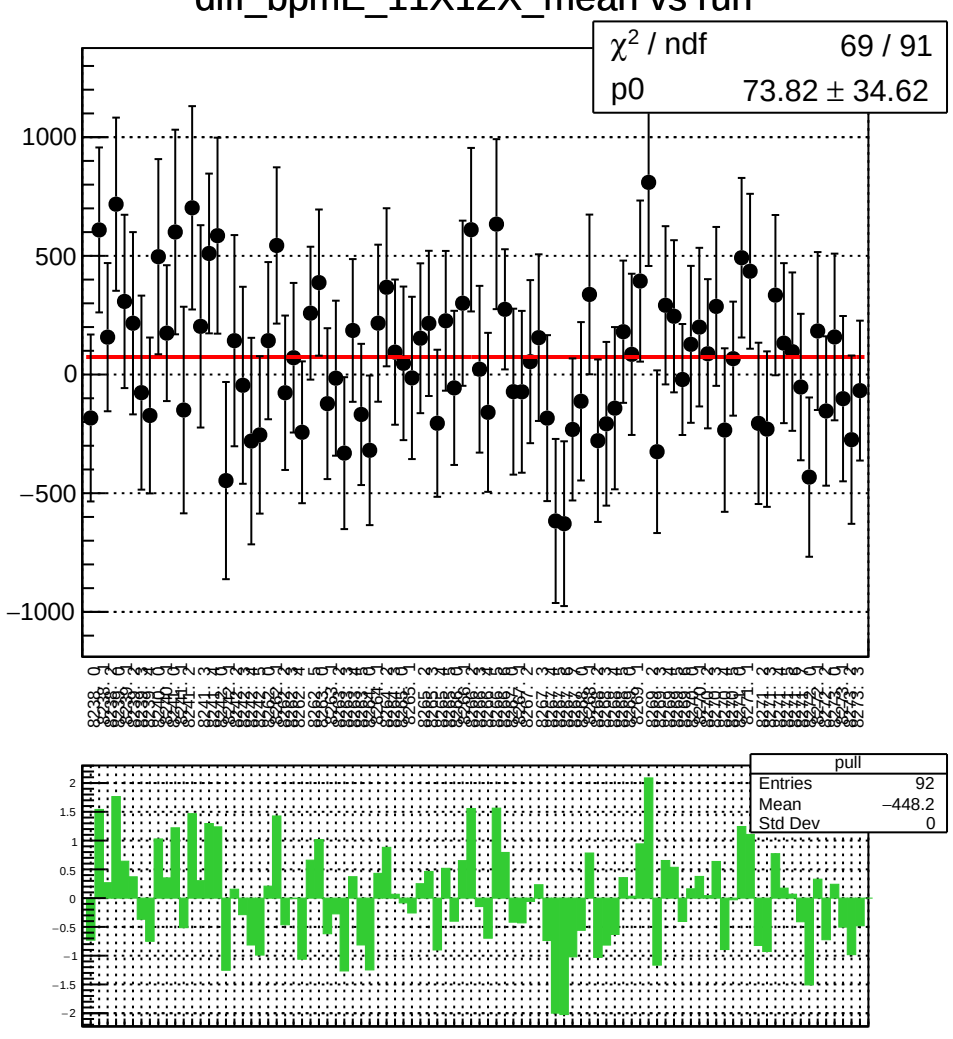

pull1D
Entries 92
Mean 0.008295
Std Dev 0.8606
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

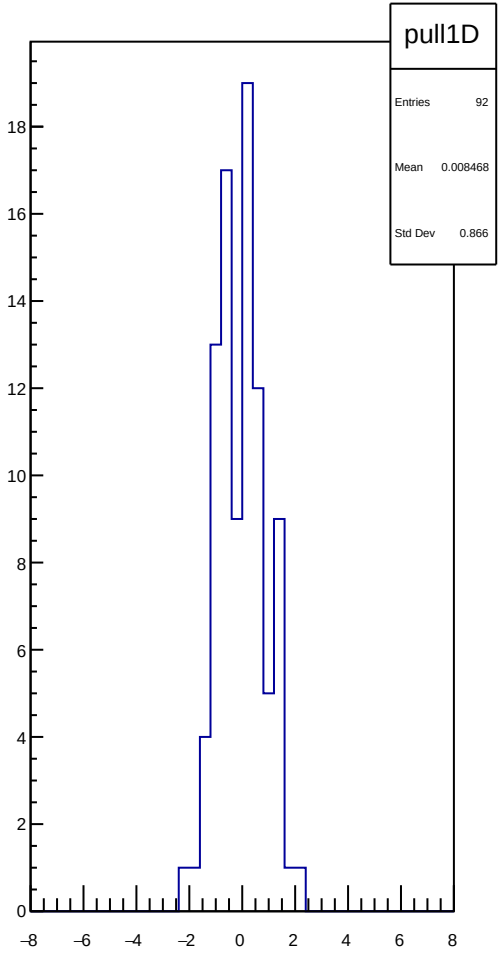

diff_bpmE_rms vs run
χ² / ndf 1.565e+04 / 91
p0 4.144e+04 ± 31.17
55000
50000
45000
40000
35000

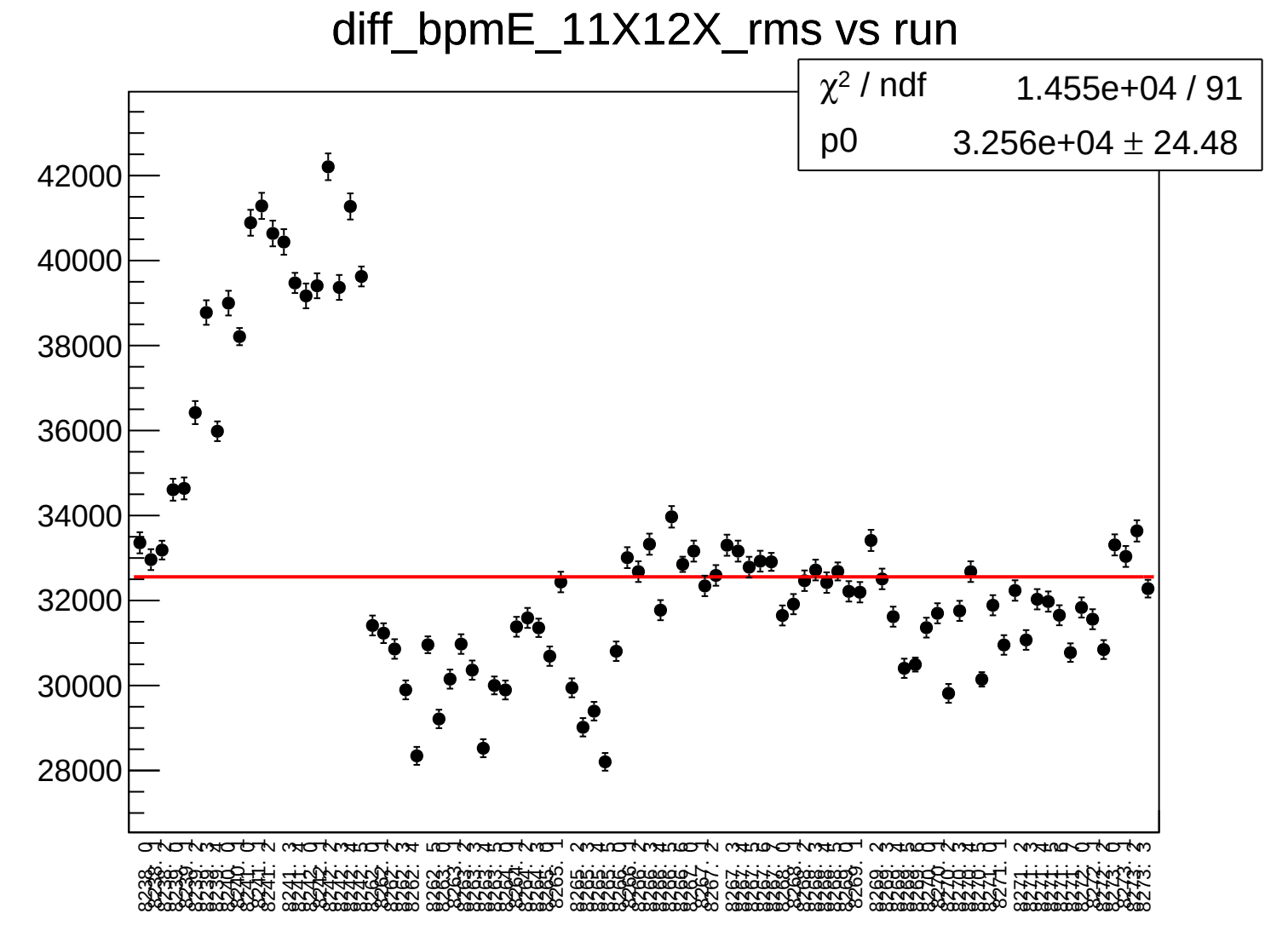

diff_bpmEX_mean vs run
χ² / ndf 68.15 / 91
p0 102.8 ± 44.08
1500
1000
500
0
−500
−1000
pull
Entries 92
Mean −498.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

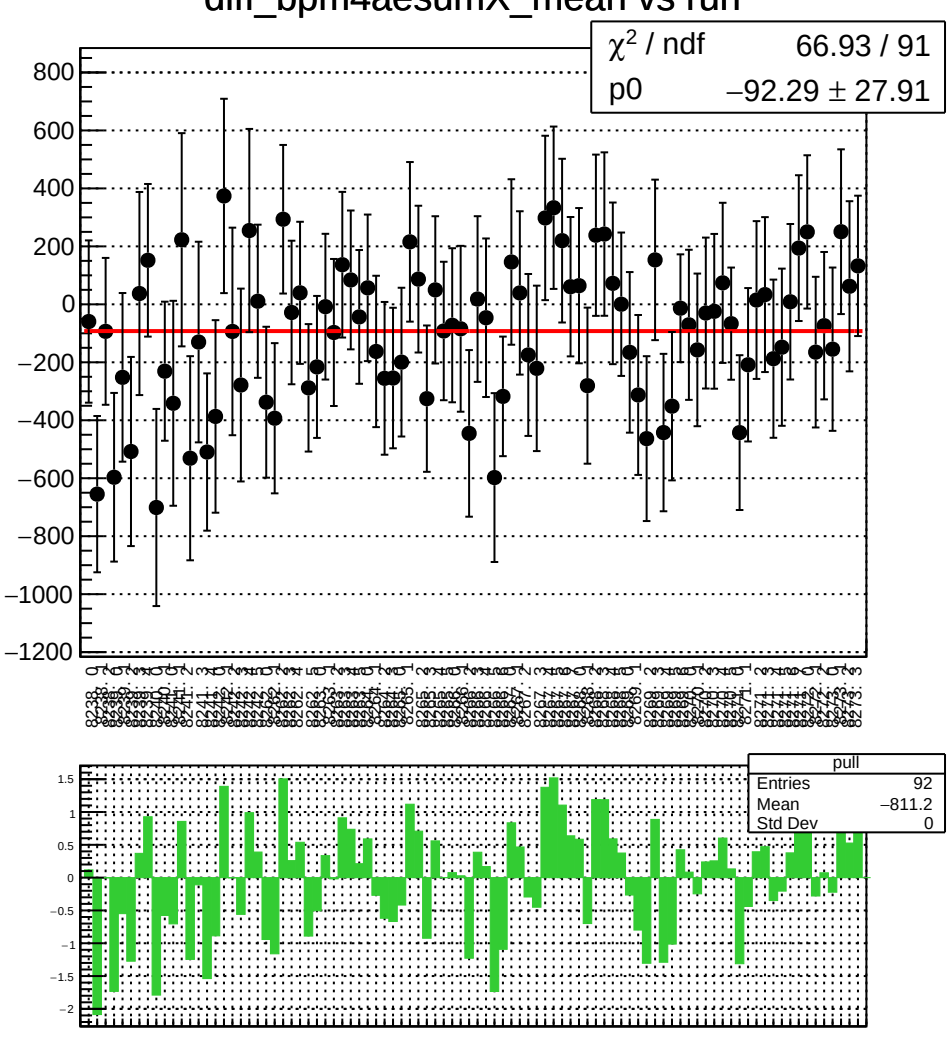

pull1D
Entries 92
Mean 0.008295
Std Dev 0.8606
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

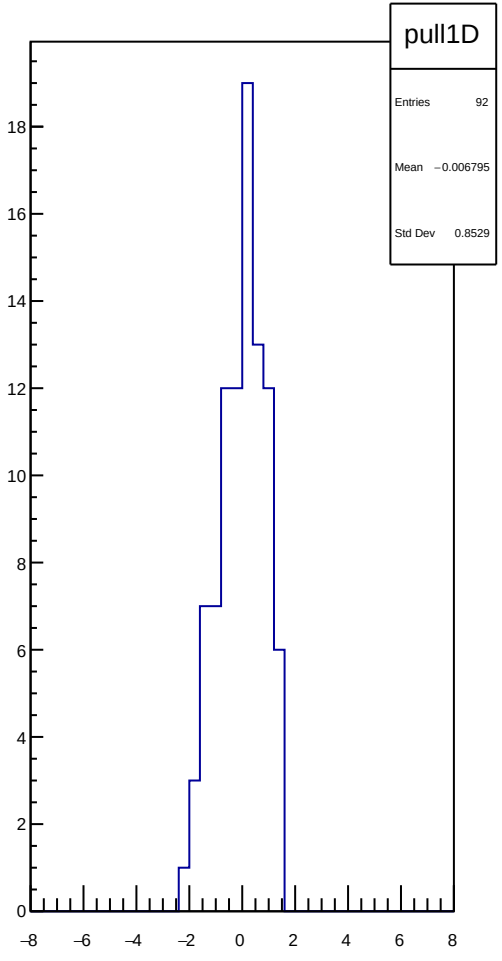

diff_bpmEX_rms vs run
χ² / ndf 1.565e+04 / 91
p0 4.144e+04 ± 31.17
55000
50000
45000
40000
35000

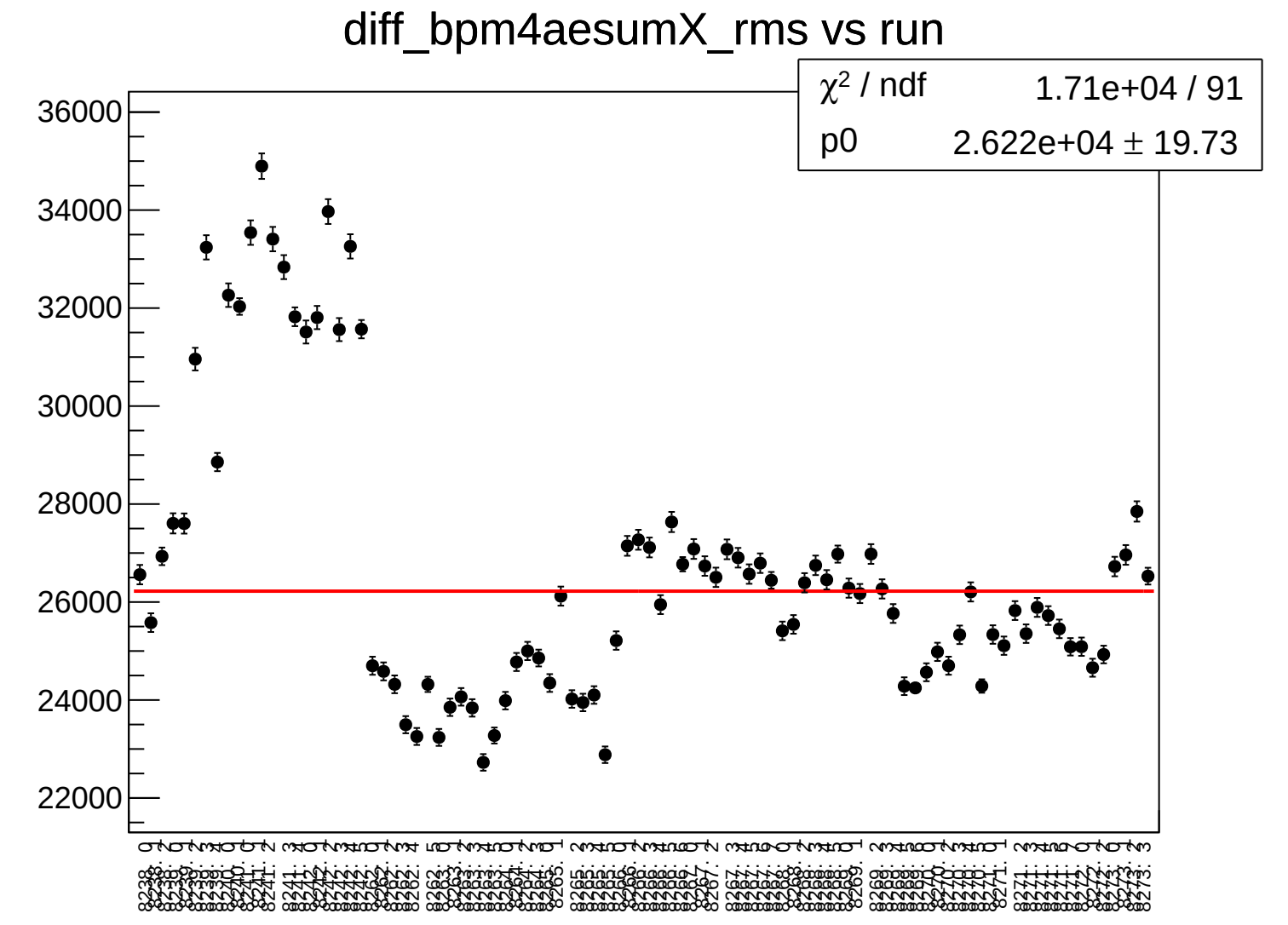

diff_bpmE_11X12X_mean vs run
χ² / ndf 69 / 91
p0 73.82 ± 34.62
1000
500
0
−500
−1000
pull
Entries 92
Mean −448.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

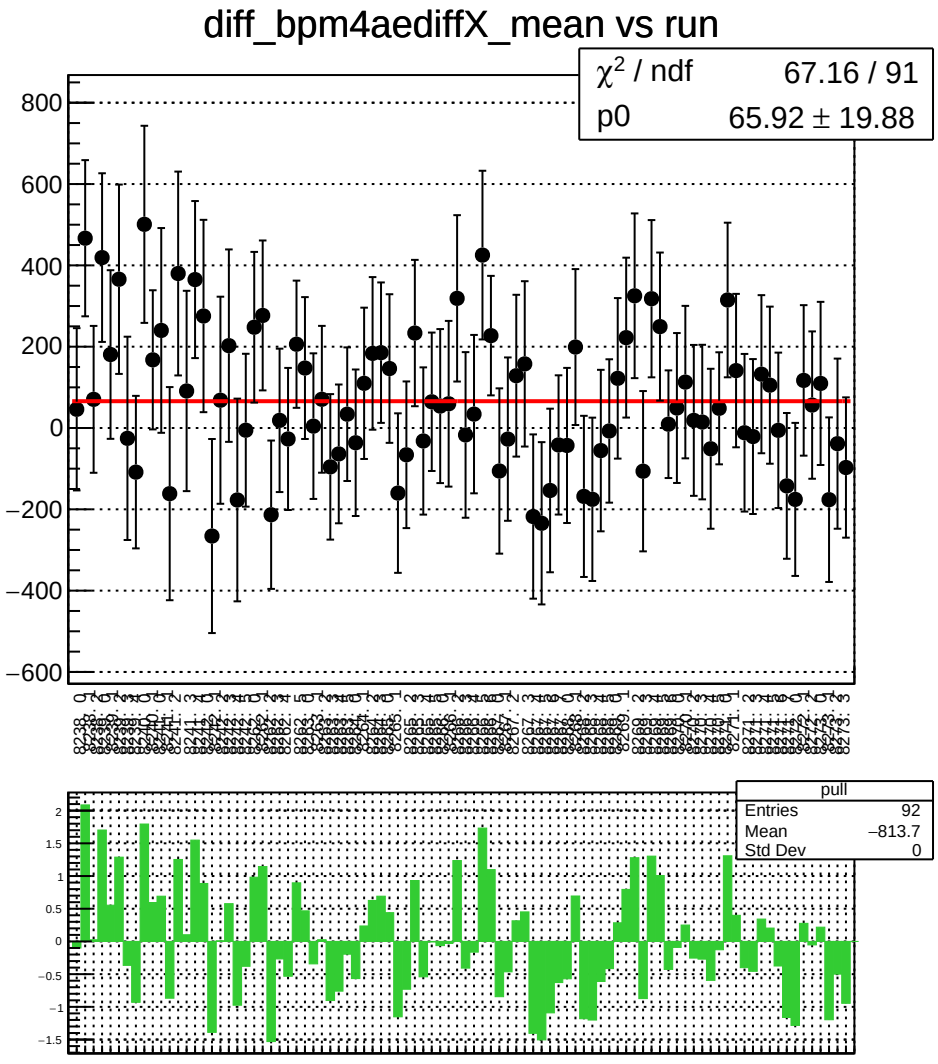

pull1D
Entries 92
Mean 0.008468
Std Dev 0.866
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

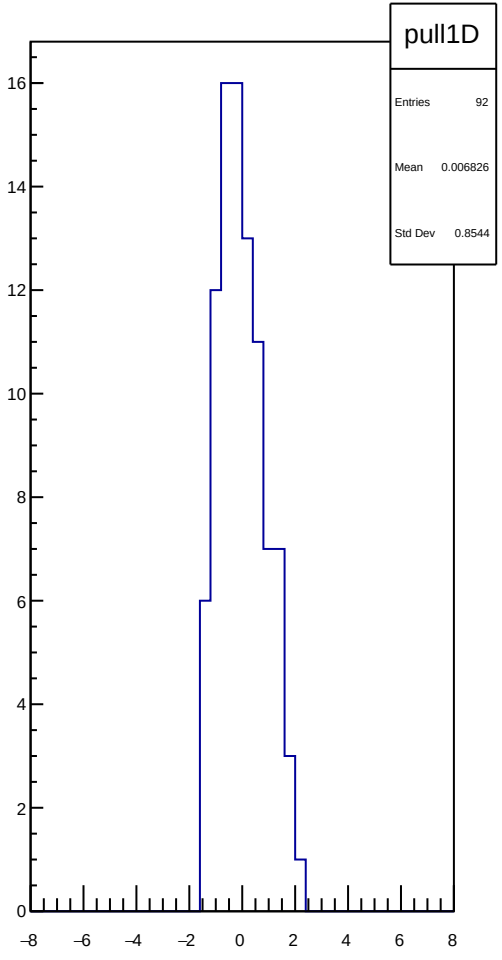

diff_bpmE_11X12X_rms vs run
χ² / ndf 1.455e+04 / 91
p0 3.256e+04 ± 24.48
42000
40000
38000
36000
34000
32000
30000
28000

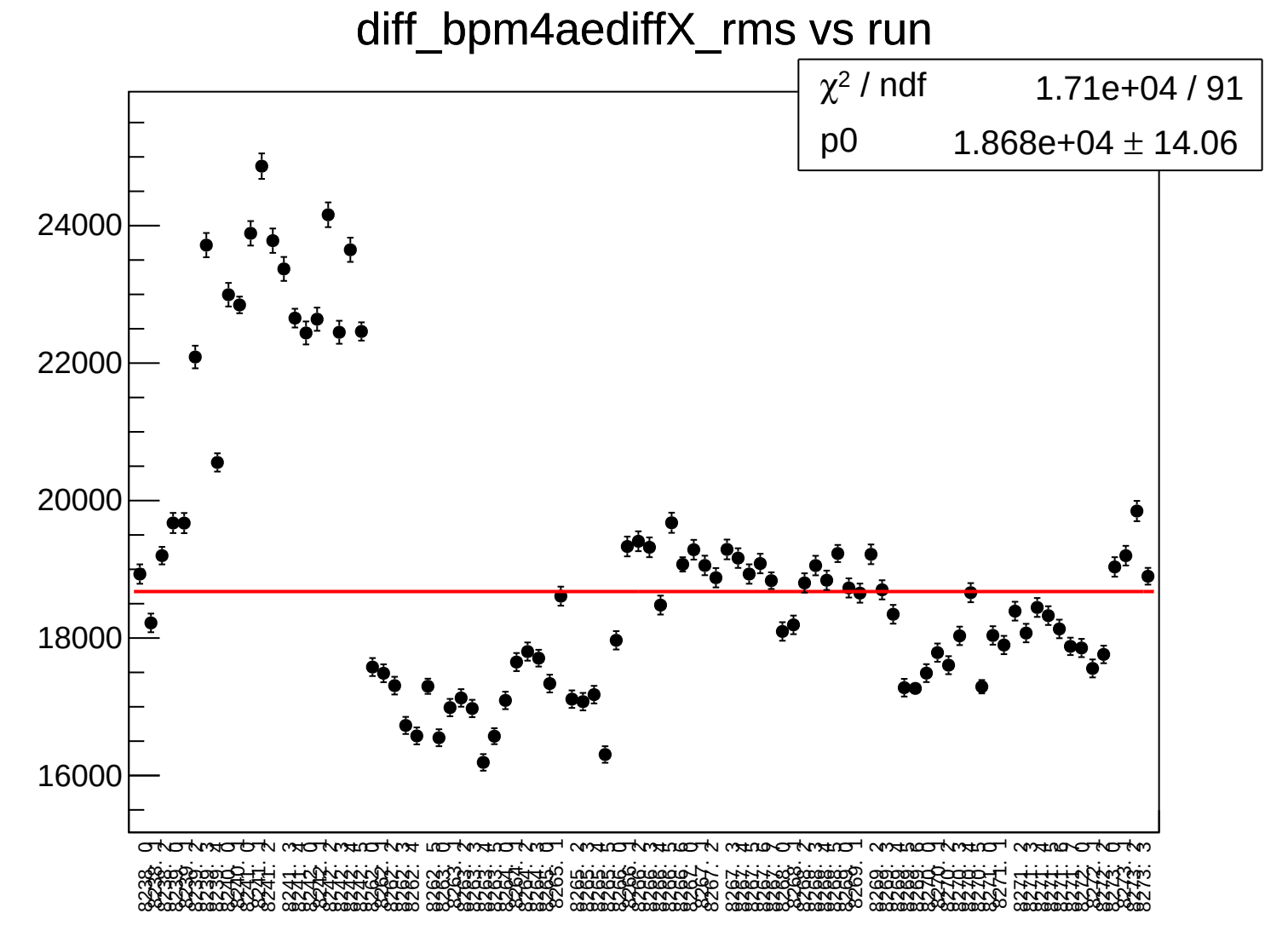

diff_bpm4aesumX_mean vs run
χ² / ndf 66.93 / 91
p0 −92.29 ± 27.91
pull
Entries 92
Mean −811.2
Std Dev 0

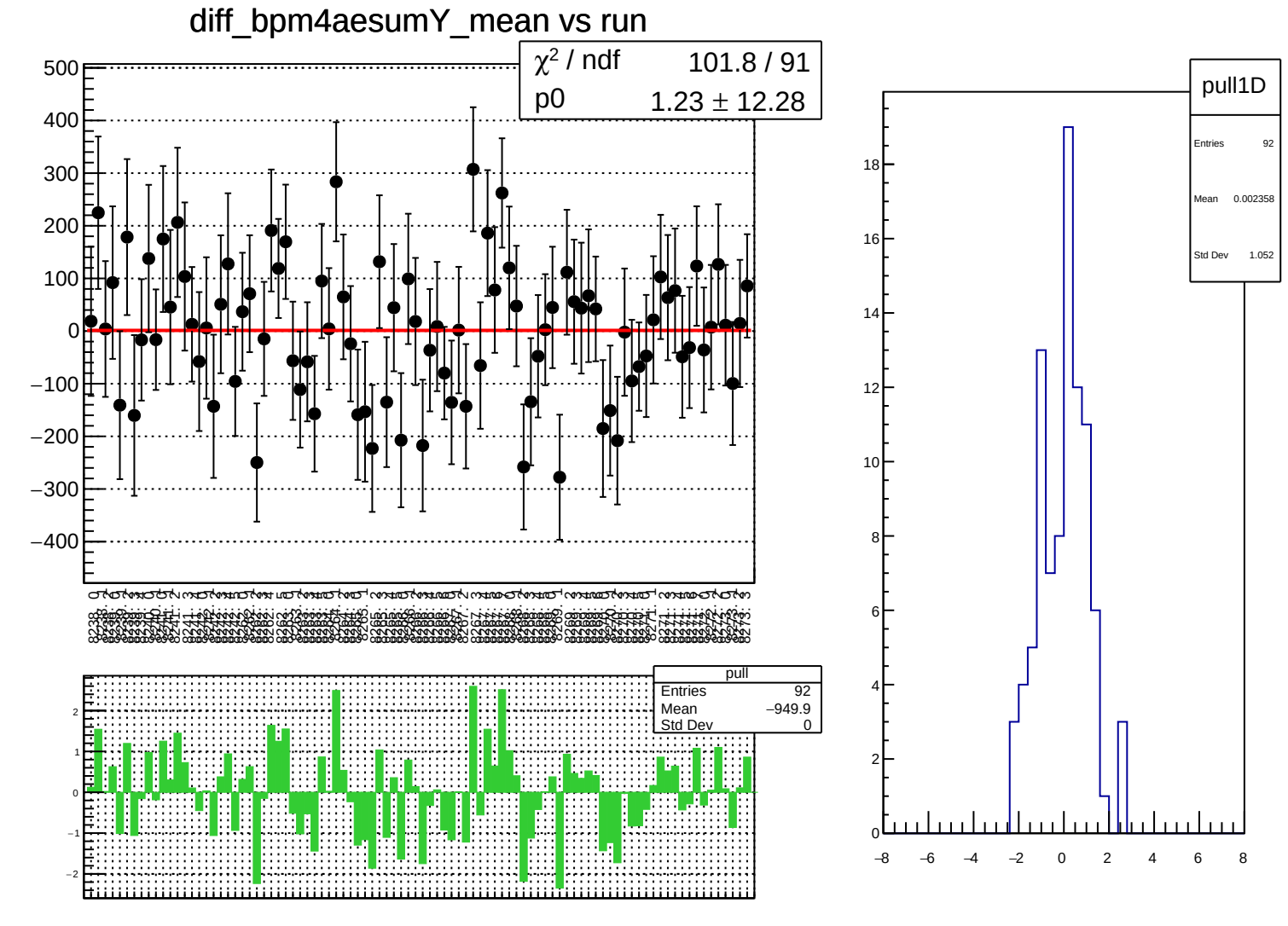

pull1D
Entries 92
Mean −0.006795
Std Dev 0.8529

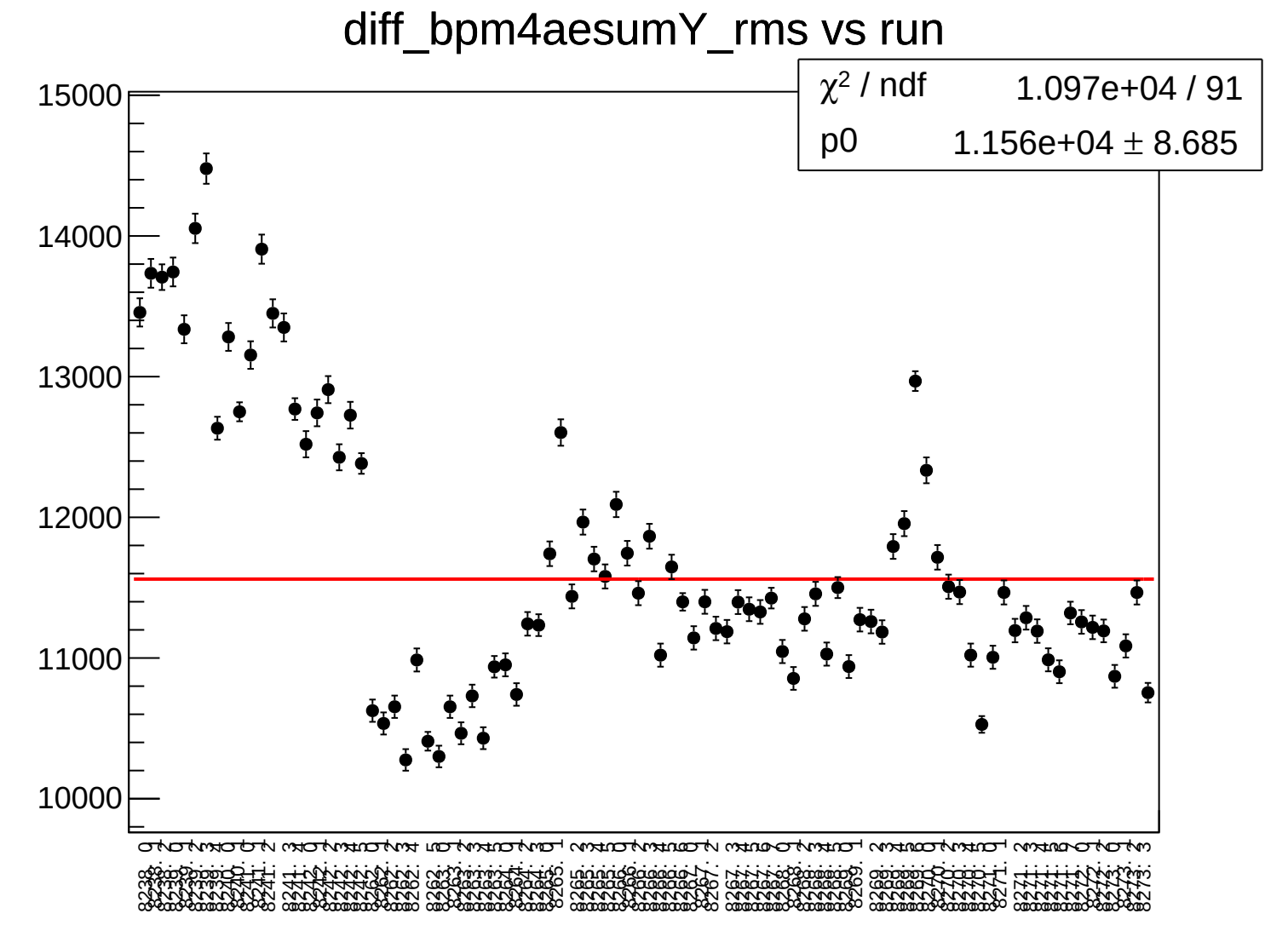

diff_bpm4aesumX_rms vs run
χ² / ndf 1.71e+04 / 91
p0 2.622e+04 ± 19.73
36000
34000
32000
30000
28000
26000
24000
22000

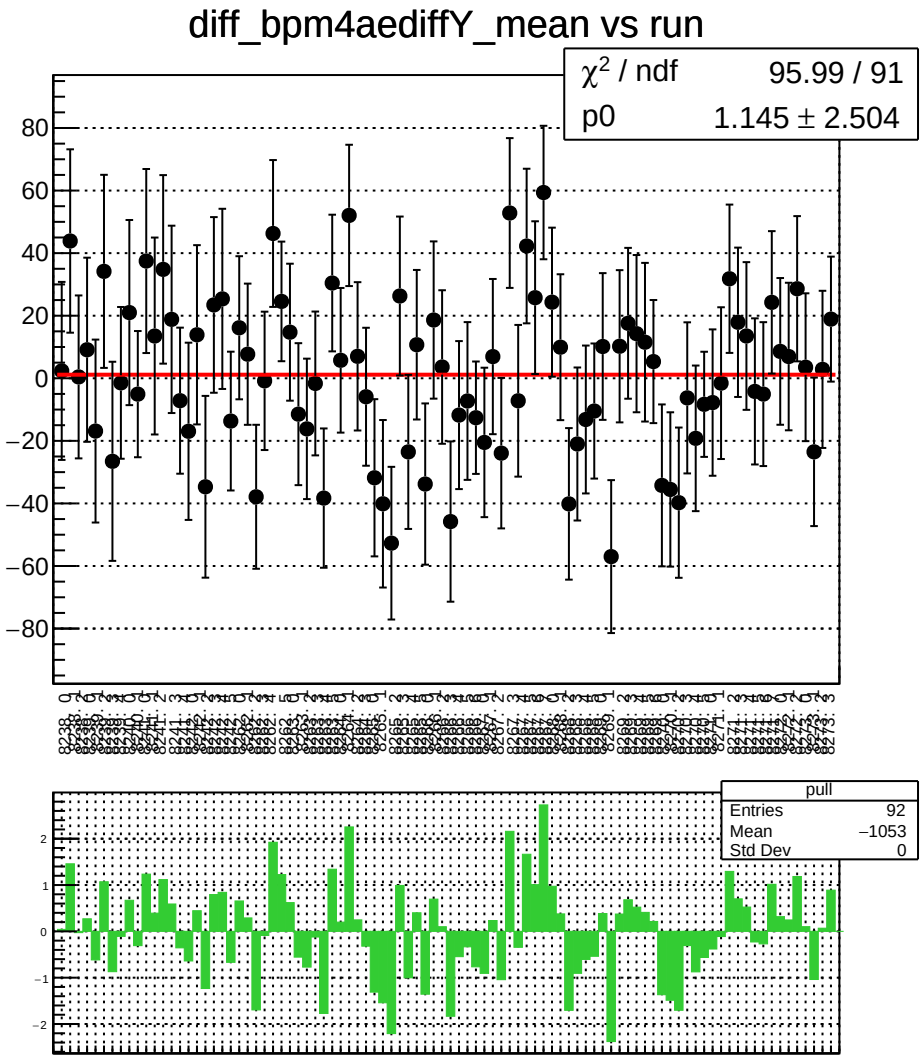

diff_bpm4aediffX_mean vs run
χ² / ndf 67.16 / 91
p0 65.92 ± 19.88
pull
Entries 92
Mean −813.7
Std Dev 0

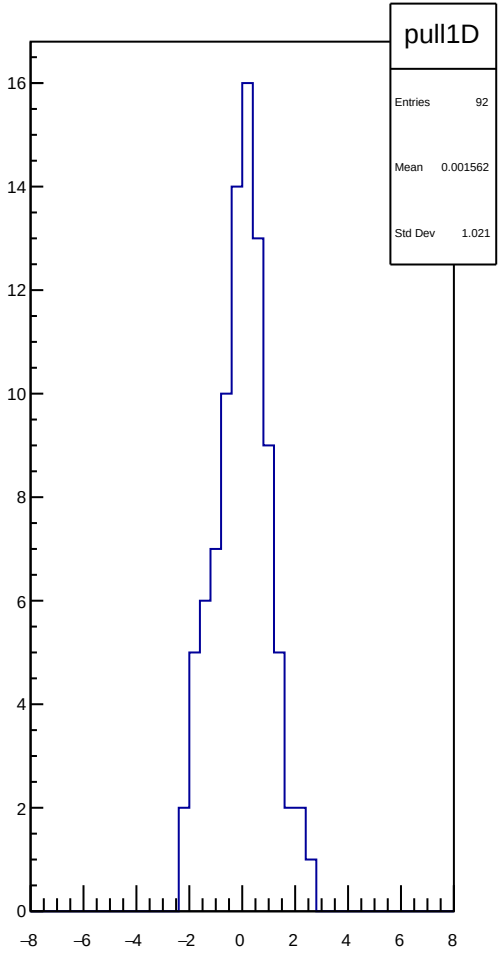

pull1D
Entries 92
Mean 0.006826
Std Dev 0.8544

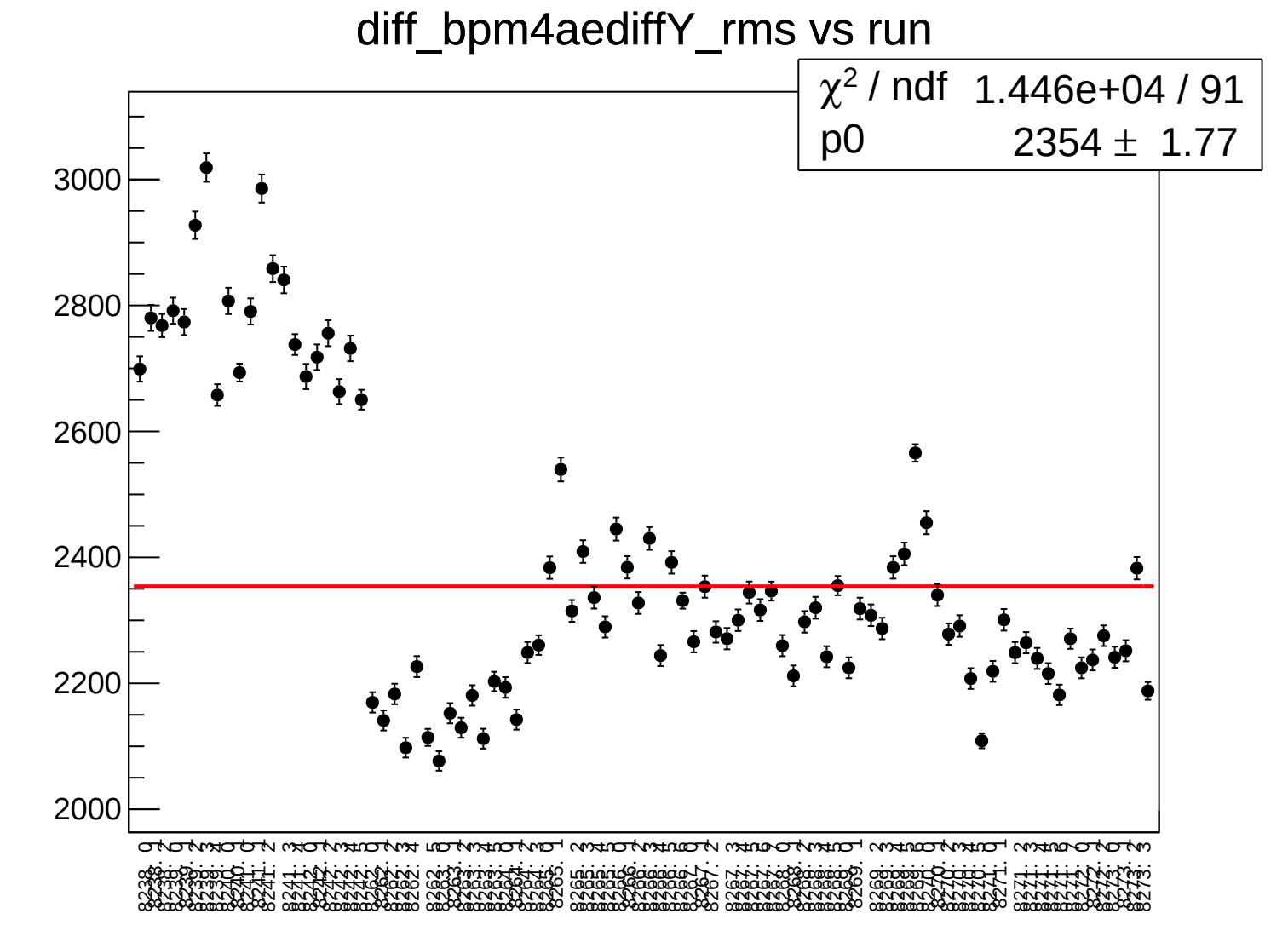

diff_bpm4aediffX_rms vs run
χ² / ndf 1.71e+04 / 91
p0 1.868e+04 ± 14.06
24000
22000
20000
18000
16000

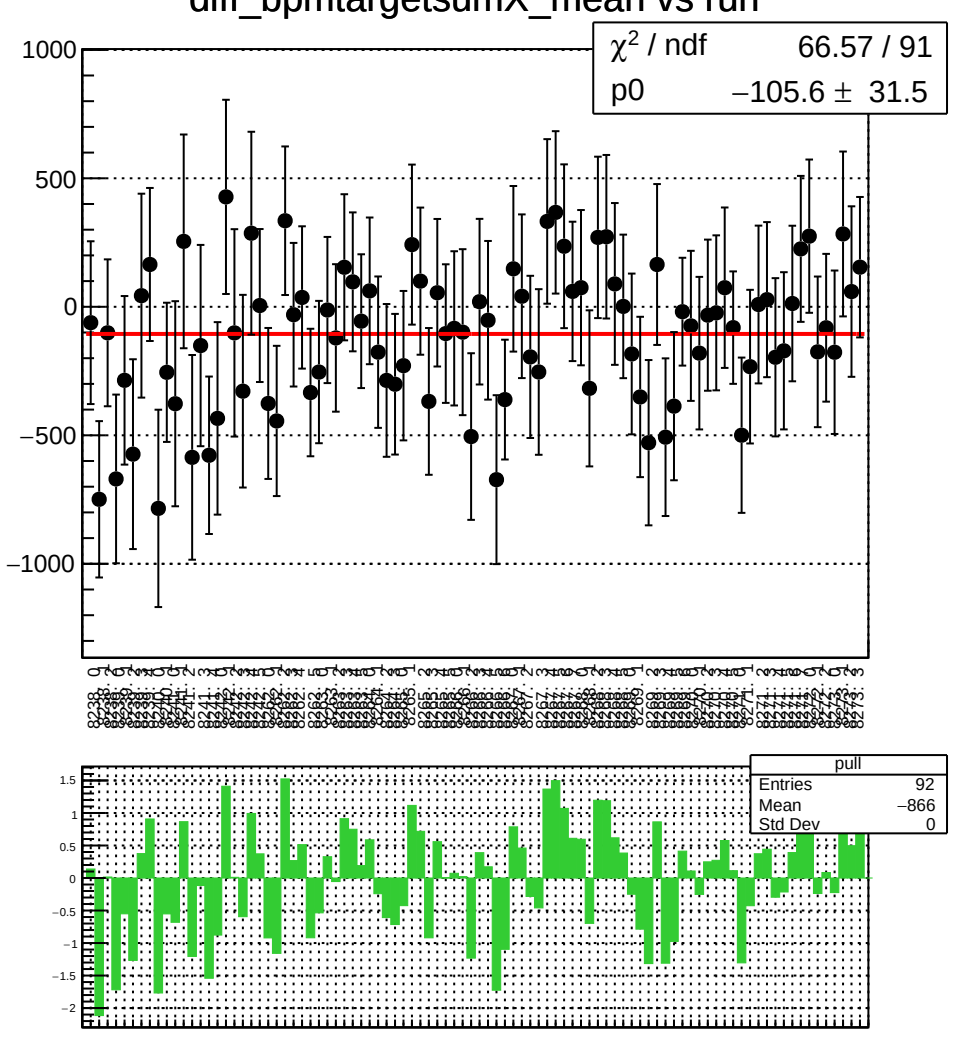

diff_bpm4aesumY_mean vs run
χ² / ndf 101.8 / 91
p0 1.23 ± 12.28
pull
Entries 92
Mean −949.9
Std Dev 0
pull1D
Entries 92
Mean 0.002358
Std Dev 1.052

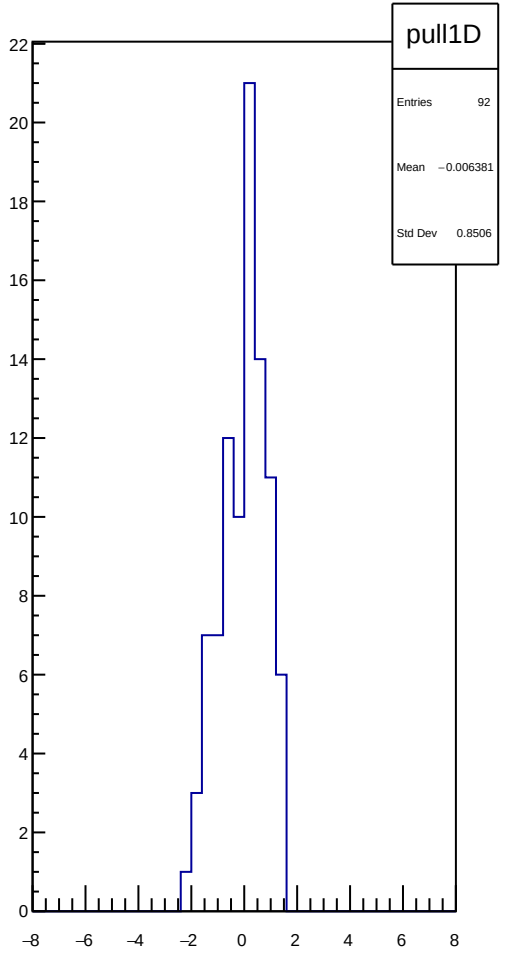

diff_bpm4aesumY_rms vs run
χ² / ndf 1.097e+04 / 91
p0 1.156e+04 ± 8.685
15000
14000
13000
12000
11000
10000

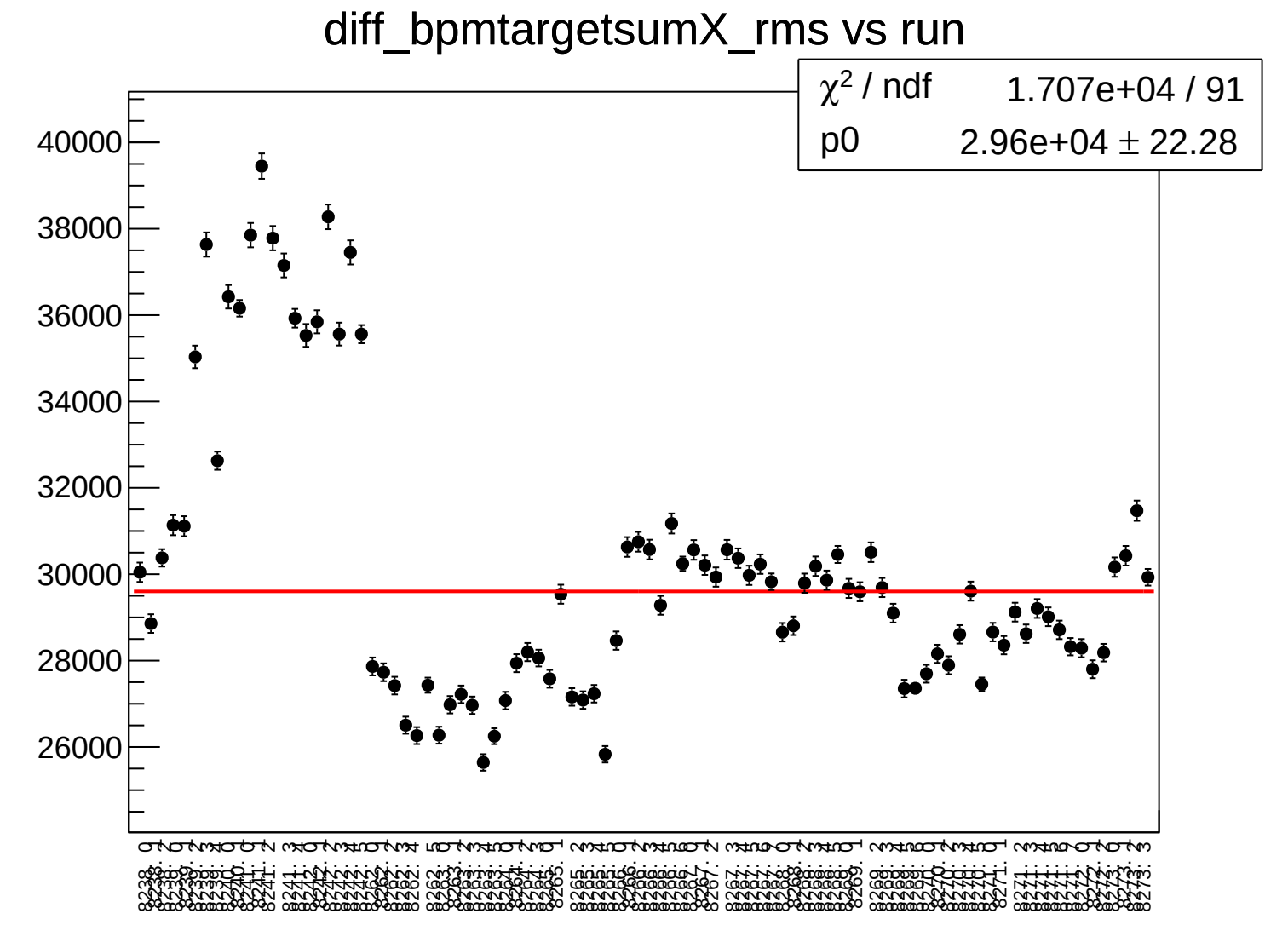

diff_bpm4aediffY_mean vs run
χ² / ndf 95.99 / 91
p0 1.145 ± 2.504
pull
Entries 92
Mean −1053
Std Dev 0

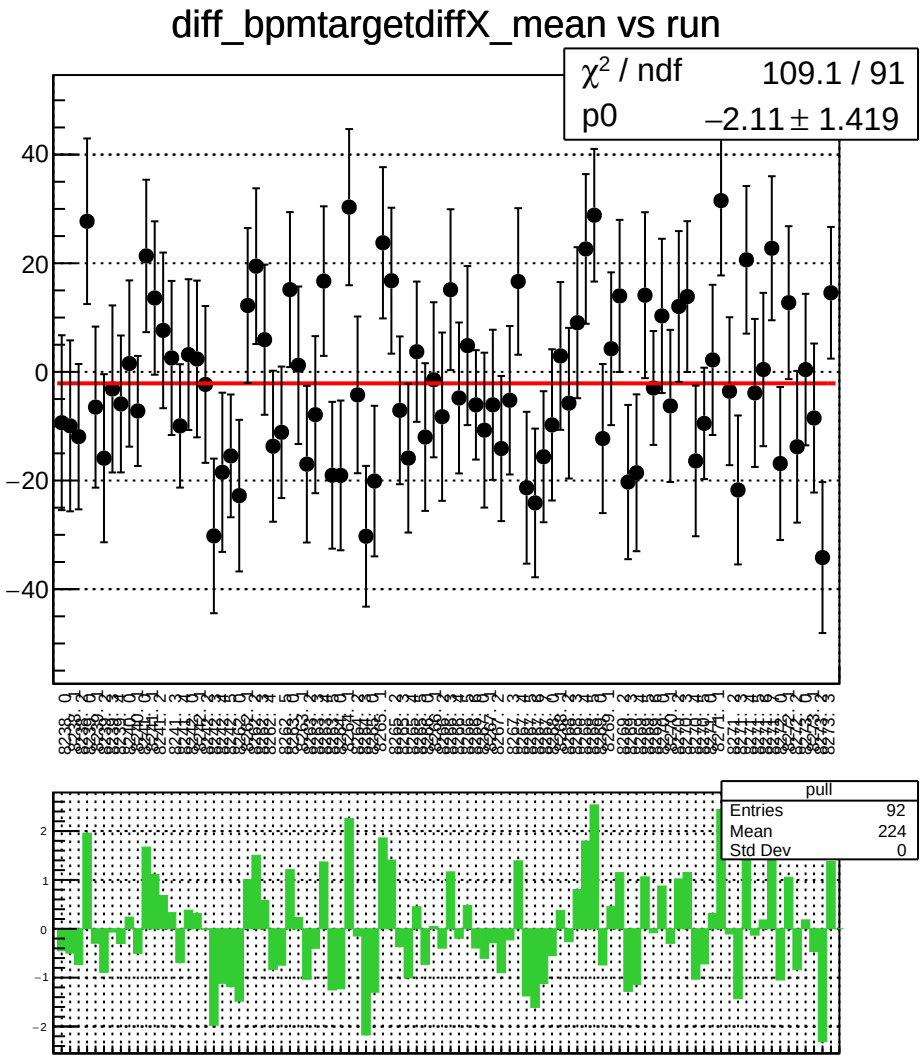

pull1D
Entries 92
Mean 0.001562
Std Dev 1.021

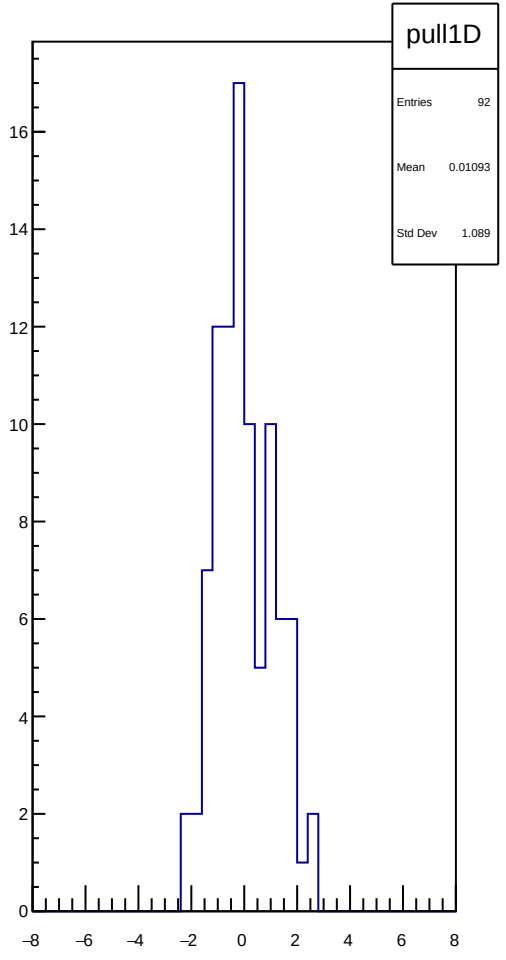

diff_bpm4aediffY_rms vs run
χ² / ndf 1.446e+04 / 91
p0 2354 ± 1.77
3000
2800
2600
2400
2200
2000

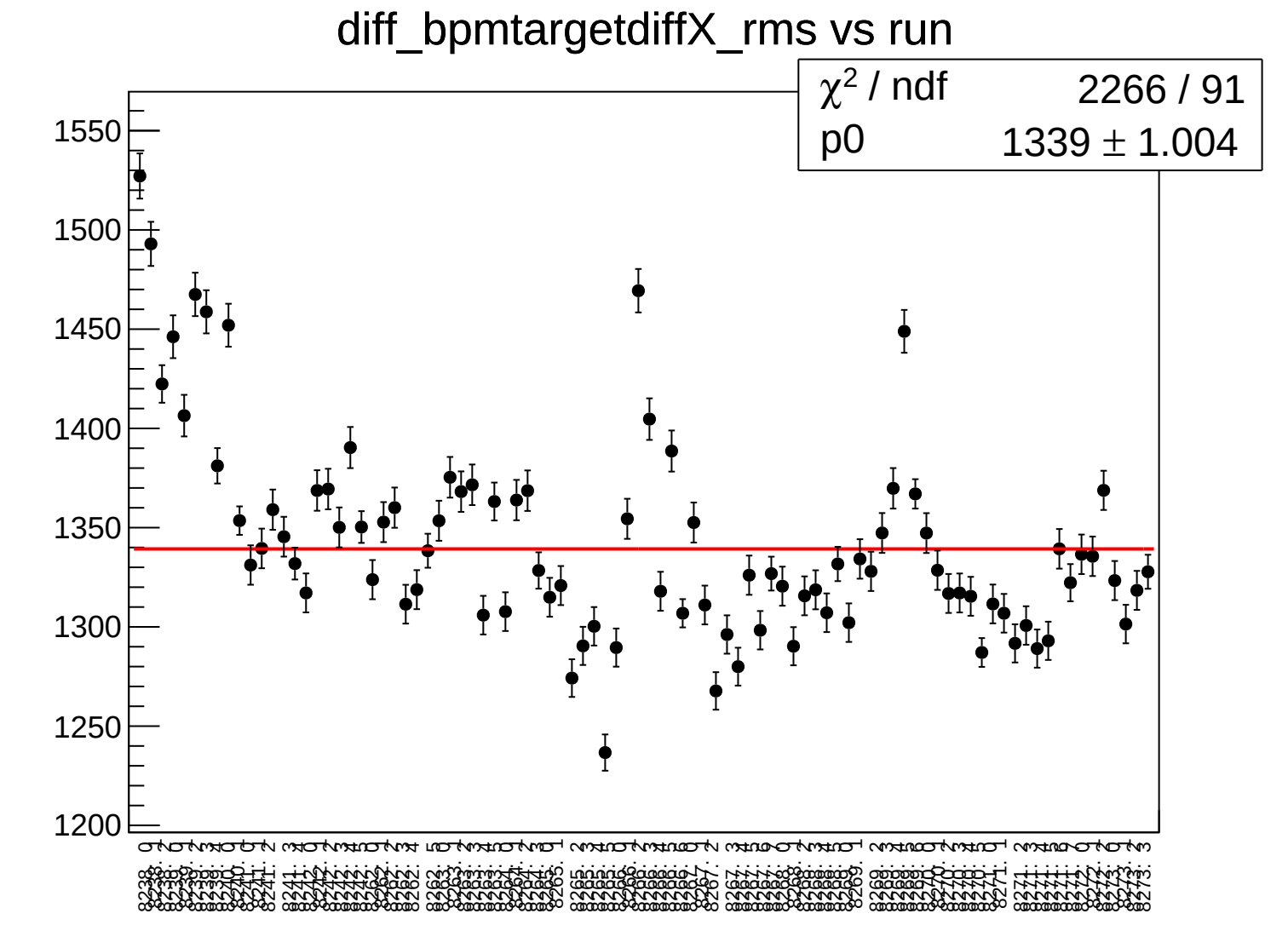

diff_bpmtargetsumX_mean vs run
χ² / ndf 66.57 / 91
p0 −105.6 ± 31.5
1000
500
0
−500
−1000
pull
Entries 92
Mean −866
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

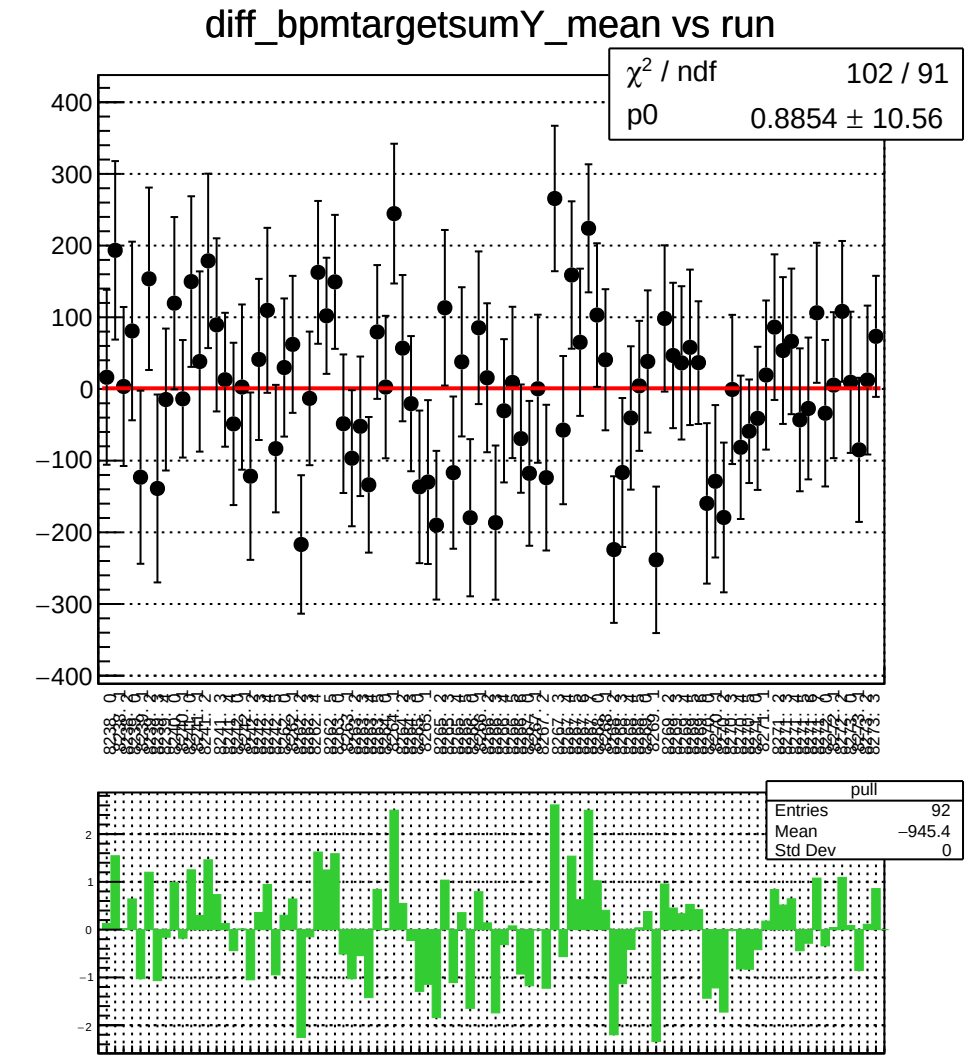

pull1D
Entries 92
Mean −0.006381
Std Dev 0.8506
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

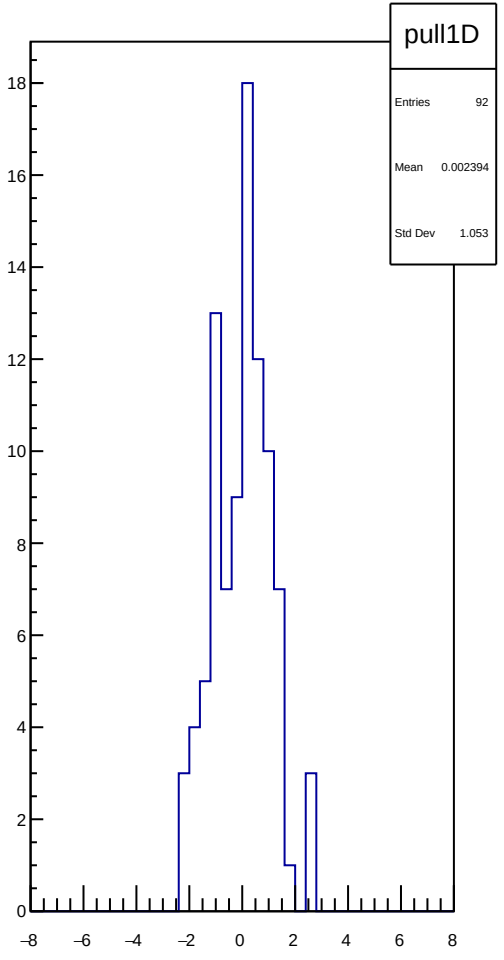

diff_bpmtargetsumX_rms vs run
$\chi^2$ / ndf 1.707e+04 / 91
p0 2.96e+04 ± 22.28
40000
38000
36000
34000
32000
30000
28000
26000

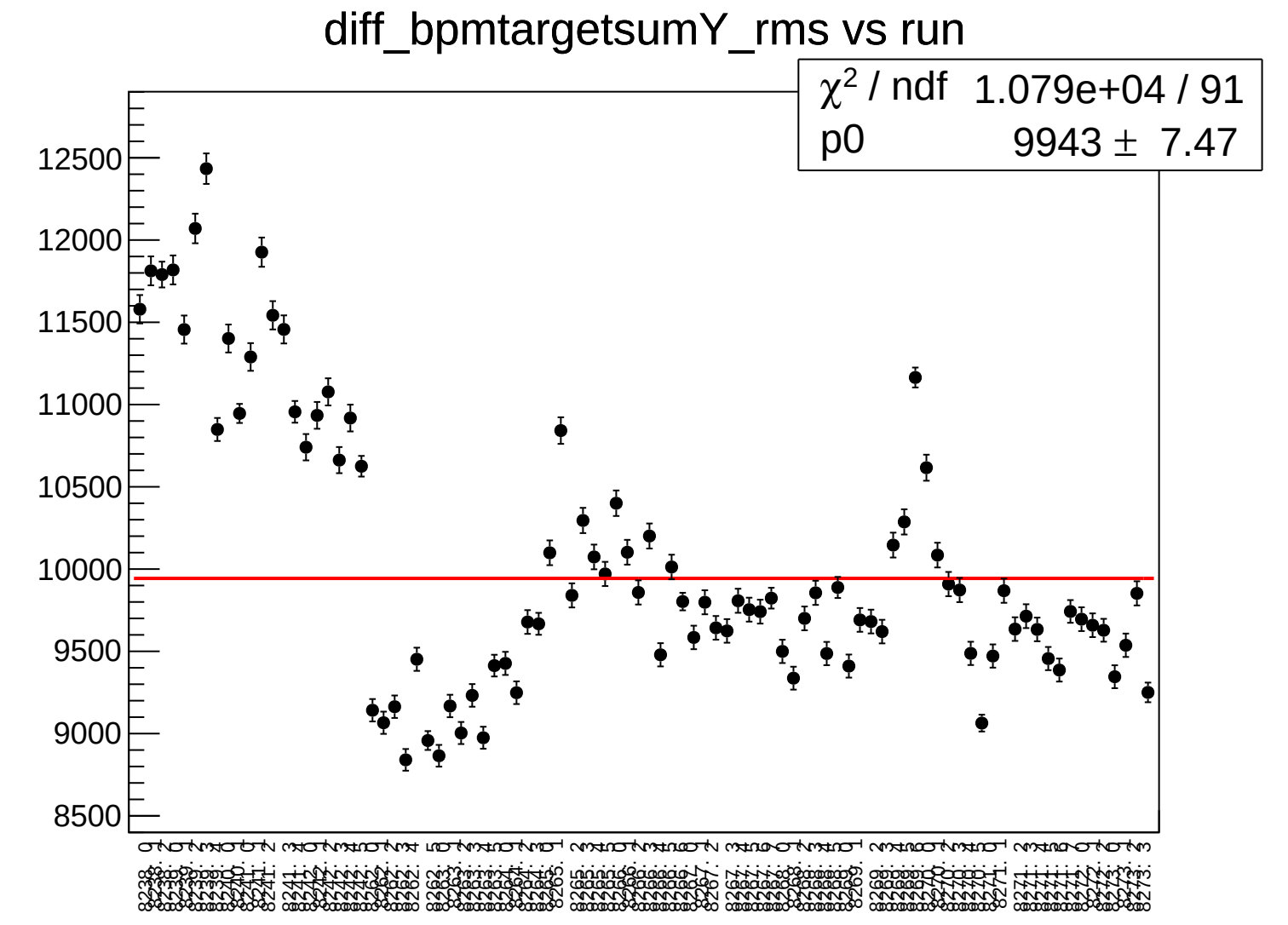

diff_bpmtargetdiffX_mean vs run
χ² / ndf 109.1 / 91
p0 −2.11 ± 1.419
40
20
0
−20
−40
pull
Entries 92
Mean 224
Std Dev 0
2
1
0
−1
−2

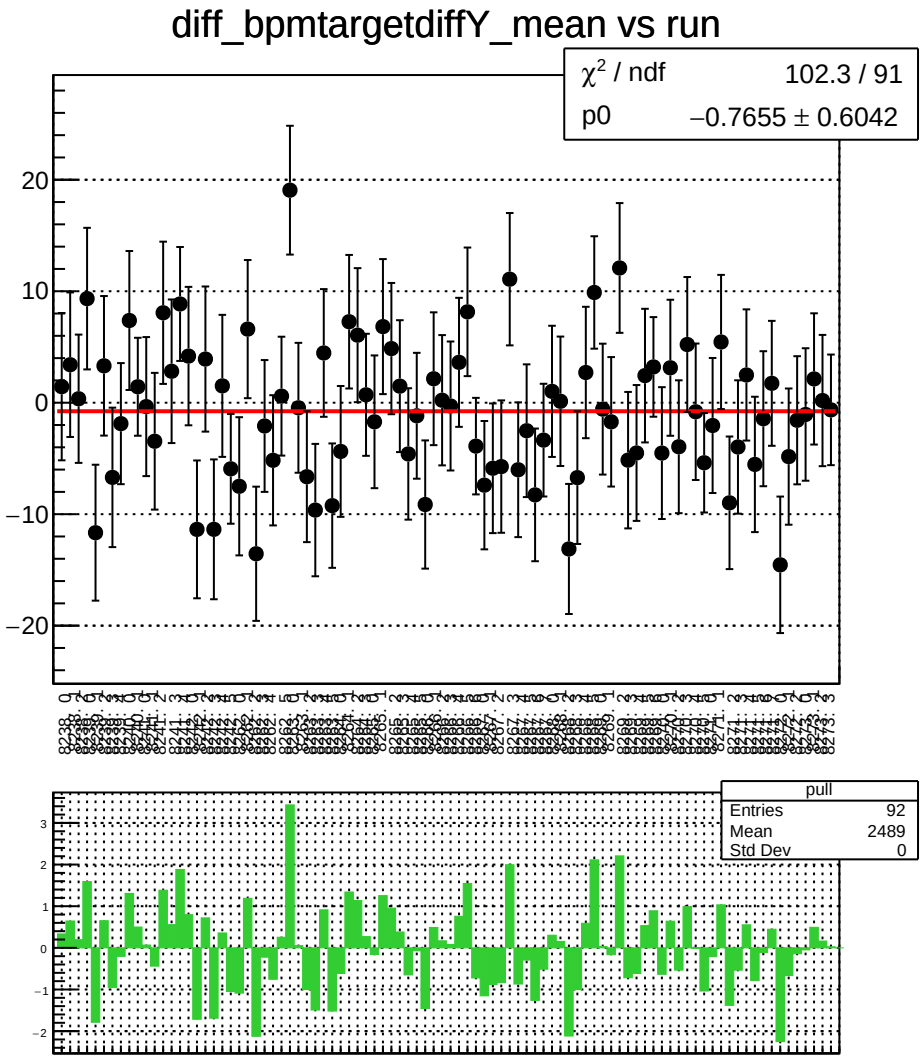

pull1D
Entries 92
Mean 0.01093
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

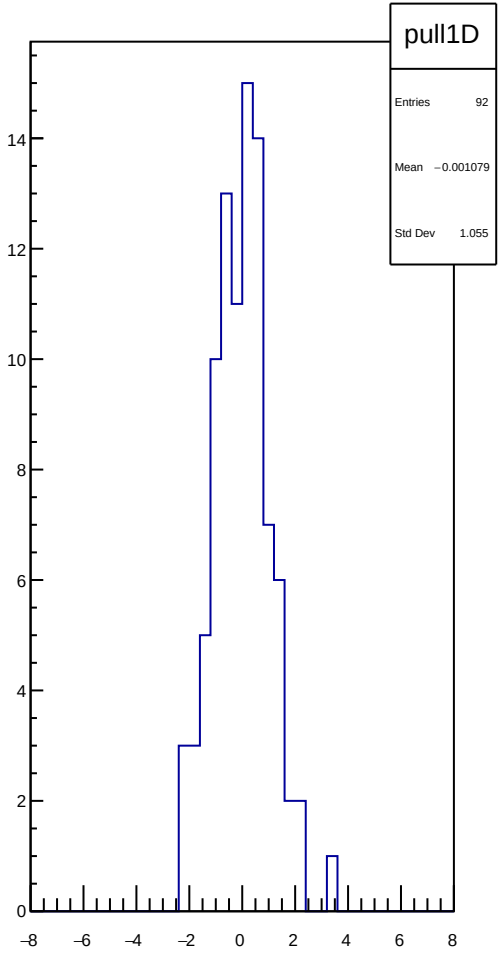

diff_bpmtargetdiffX_rms vs run
χ² / ndf 2266 / 91
p0 1339 ± 1.004
1550
1500
1450
1400
1350
1300
1250
1200

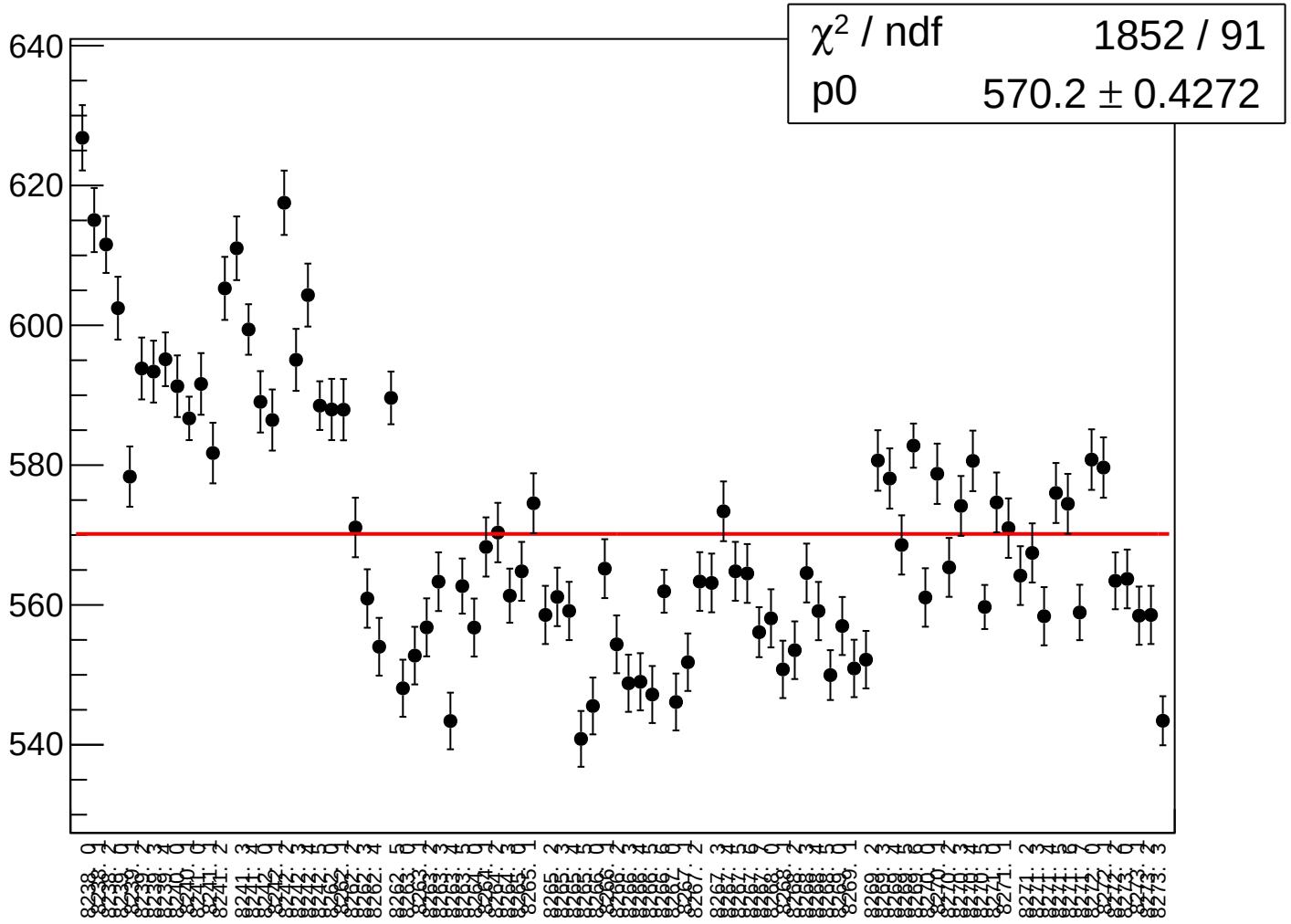

diff_bpmtargetsumY_mean vs run
χ² / ndf 102 / 91
p0 0.8854 ± 10.56
pull
Entries 92
Mean −945.4
Std Dev 0

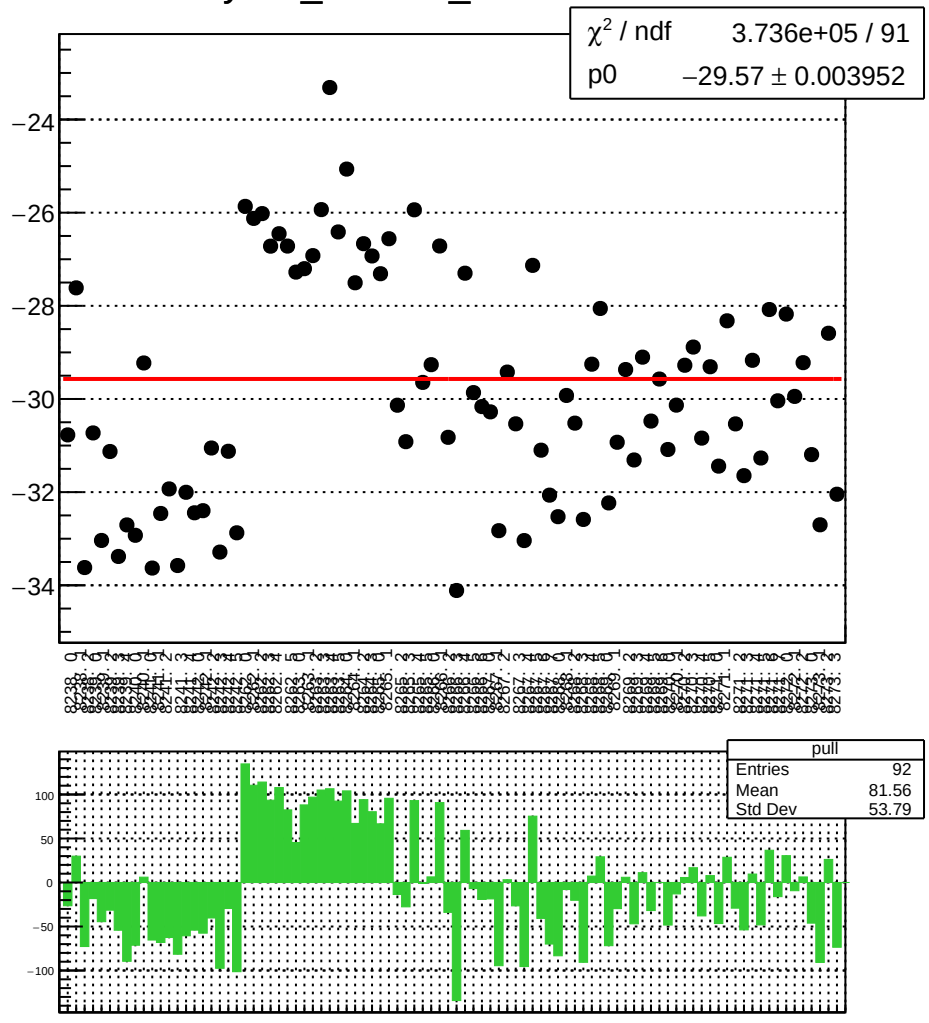

pull1D
Entries 92
Mean 0.002394
Std Dev 1.053

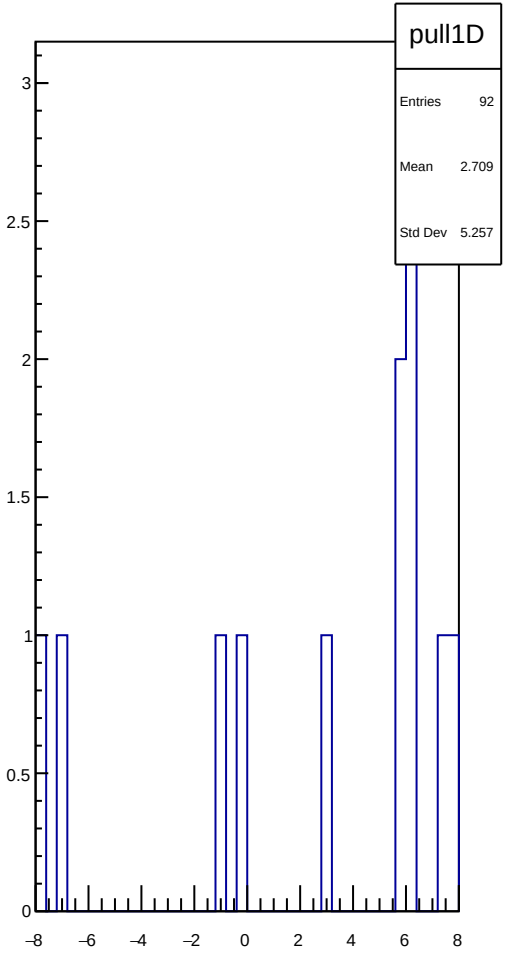

diff_bpmtargetsumY_rms vs run
χ² / ndf 1.079e+04 / 91
p0 9943 ± 7.47
12500
12000
11500
11000
10500
10000
9500
9000
8500

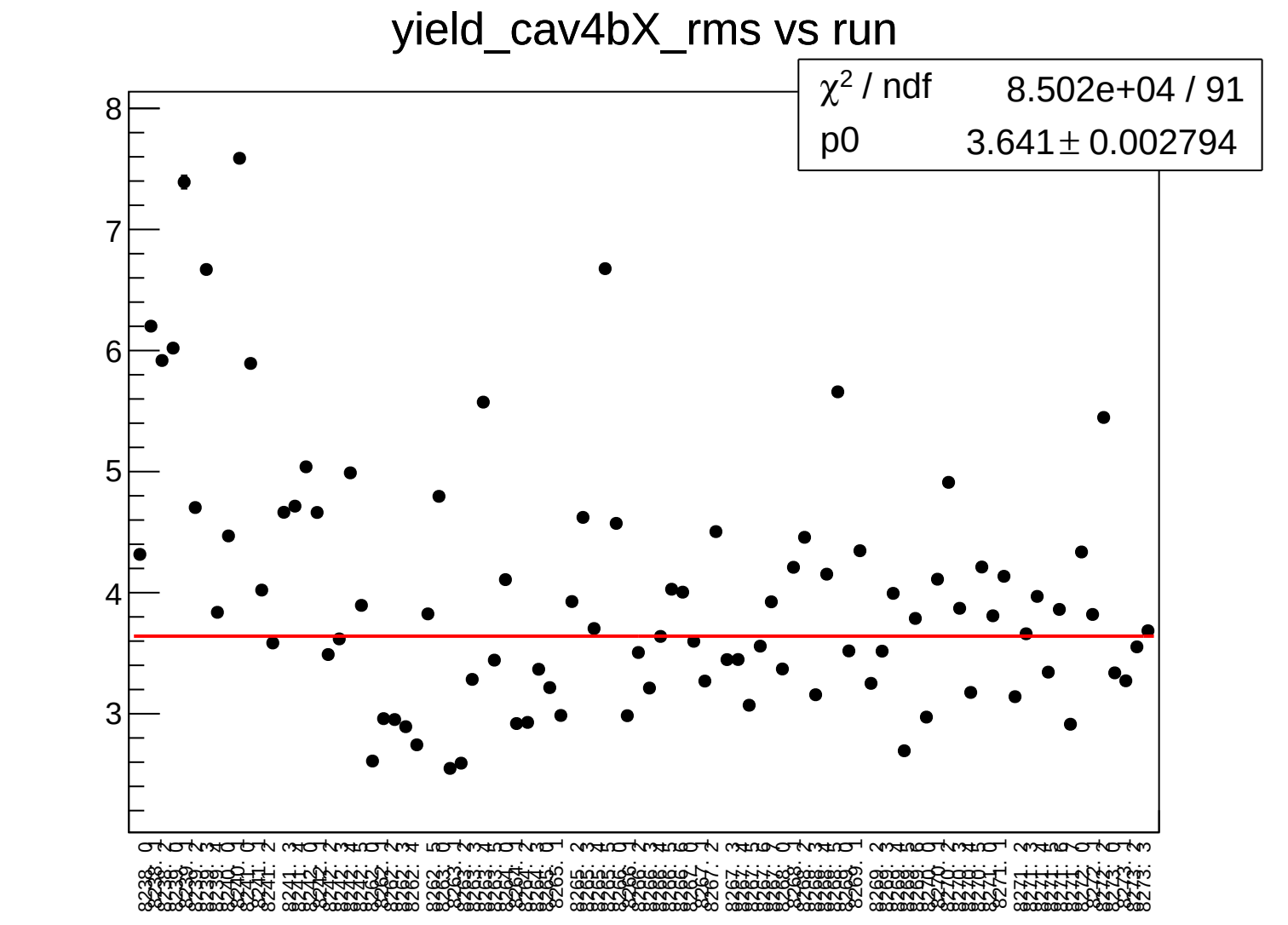

diff_bpmtargetdiffY_mean vs run
χ² / ndf 102.3 / 91
p0 −0.7655 ± 0.6042
20
10
0
−10
−20
pull
Entries 92
Mean 2489
Std Dev 0
3
2
1
0
−1
−2

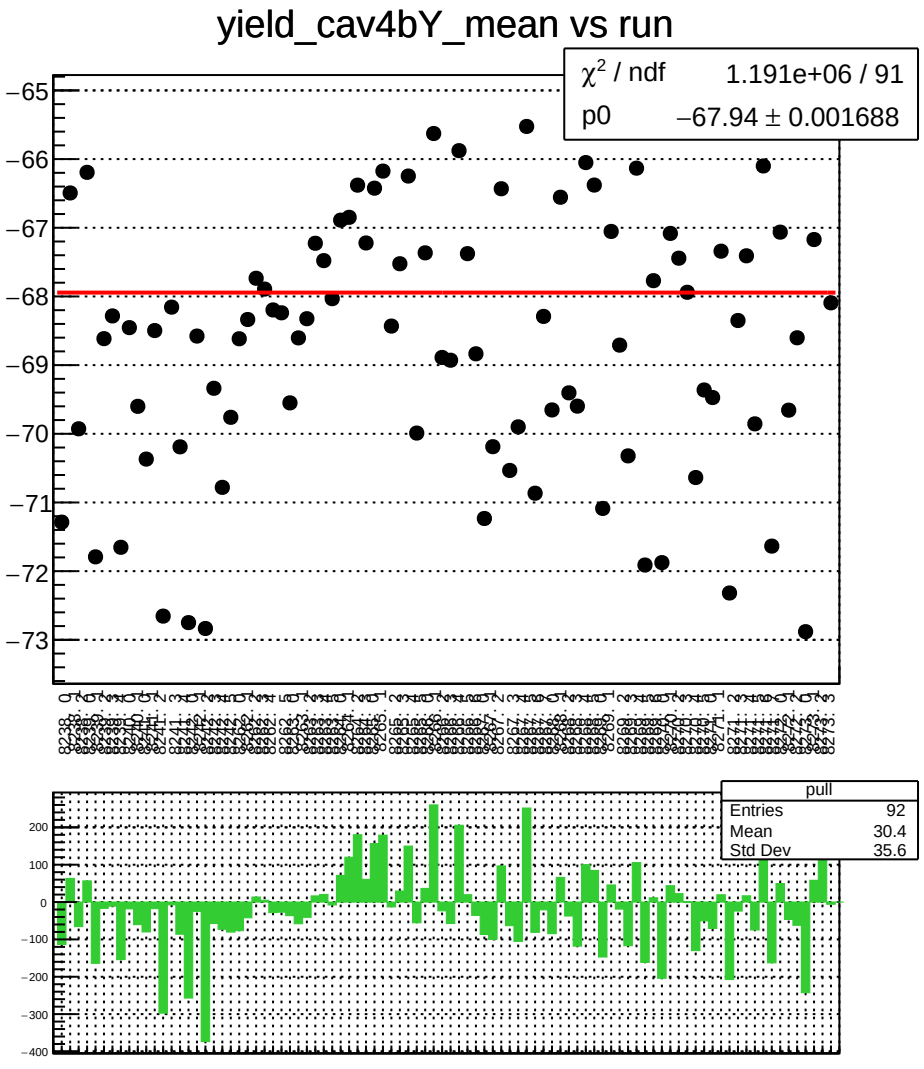

pull1D
Entries 92
Mean −0.001079
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

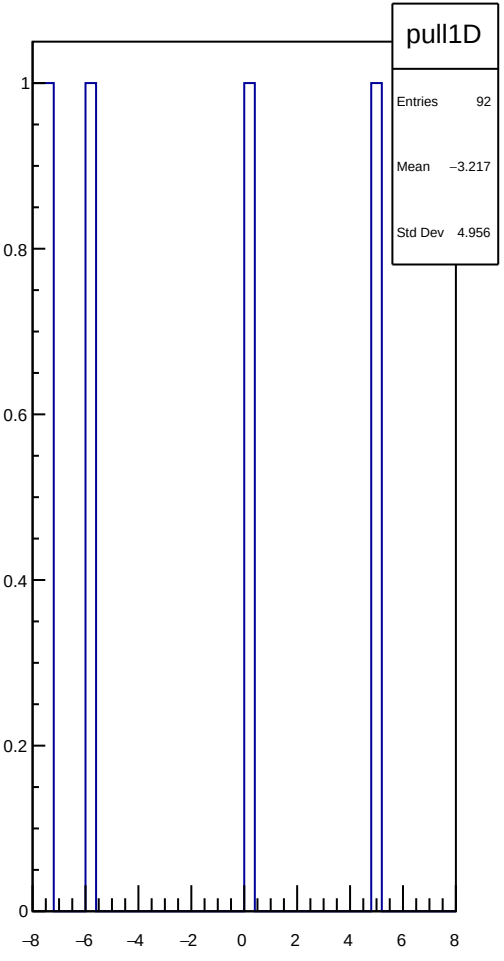

diff_bpmtargetdiffY_rms vs run
χ² / ndf 1852 / 91
p0 570.2 ± 0.4272
640
620
600
580
560
540

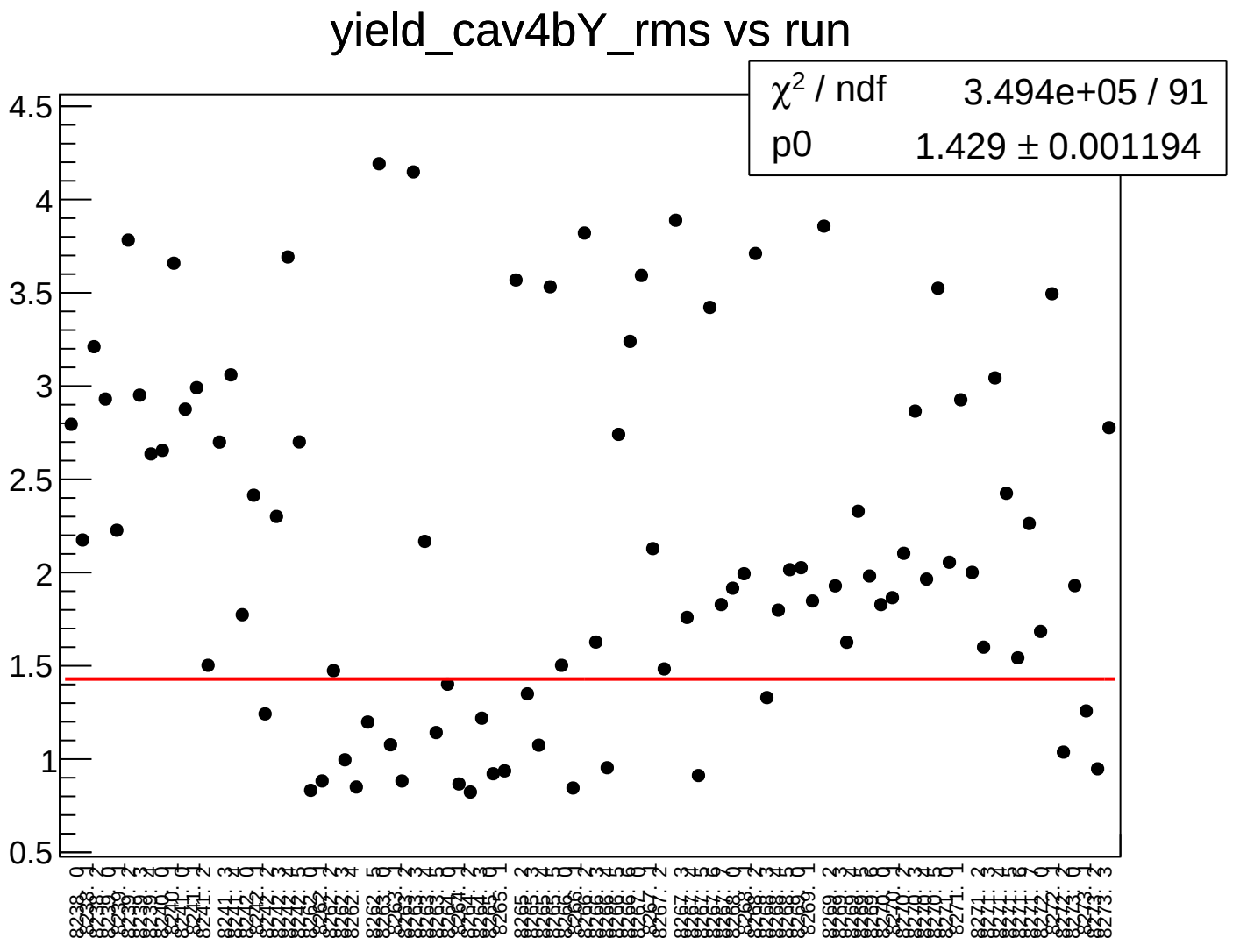

yield_cav4bX_mean vs run
χ² / ndf 3.736e+05 / 91
p0 −29.57 ± 0.003952
−24
−26
−28
−30
−32
−34
pull
Entries 92
Mean 81.56
Std Dev 53.79
100
50
0
−50
−100

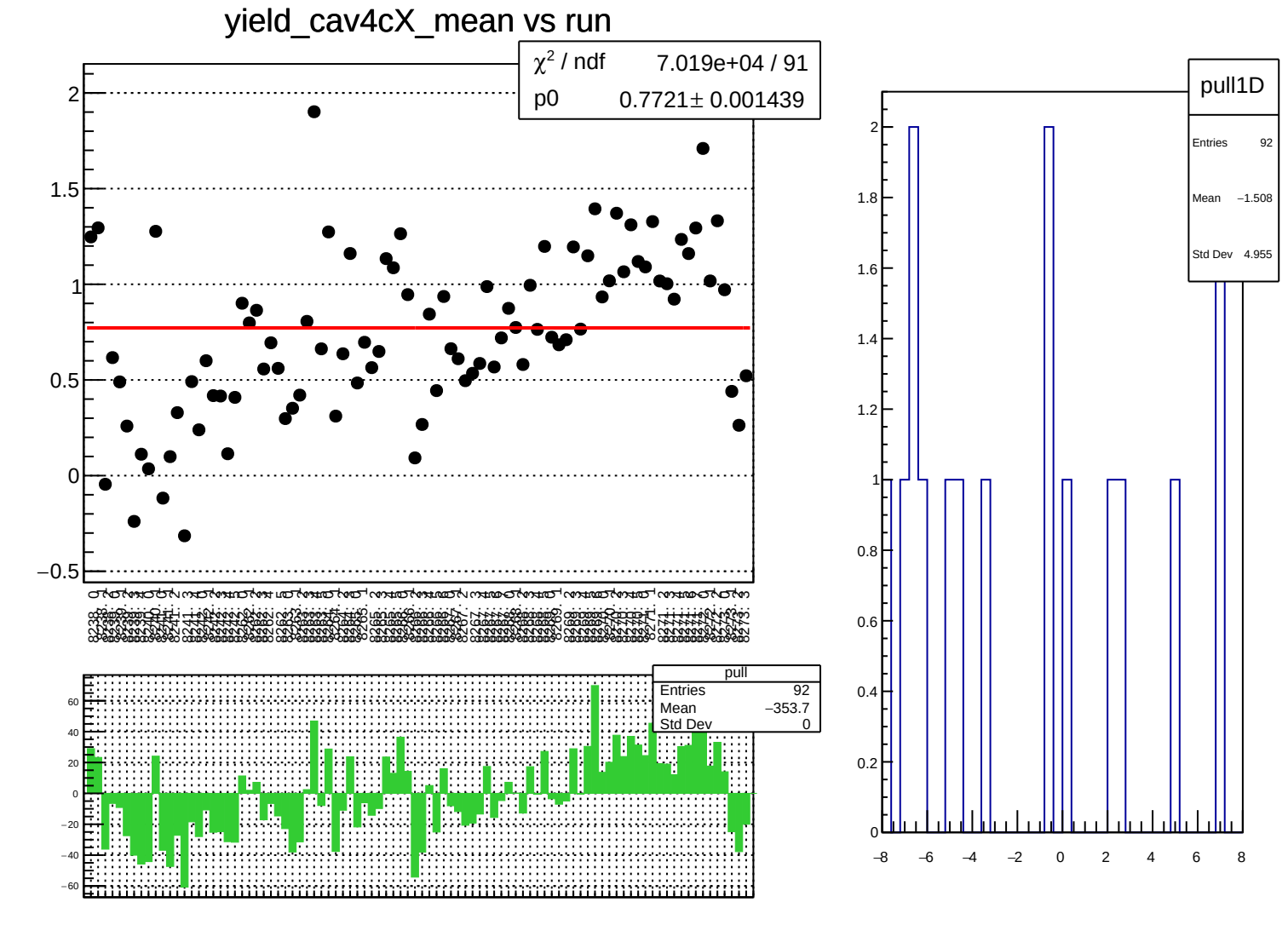

pull1D
Entries 92
Mean 2.709
Std Dev 5.257
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

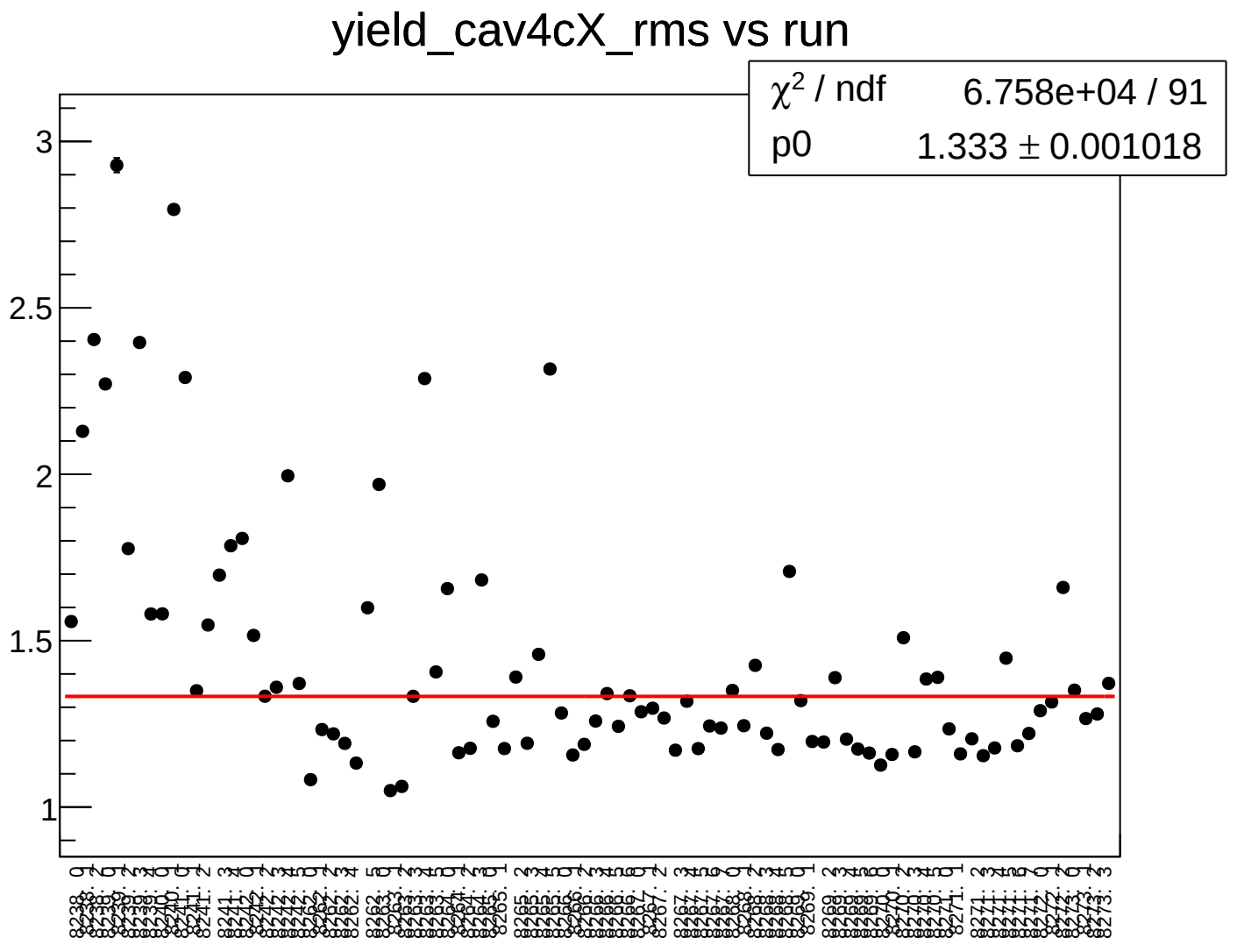

yield_cav4bX_rms vs run
χ² / ndf 8.502e+04 / 91
p0 3.641 ± 0.002794
8
7
6
5
4
3

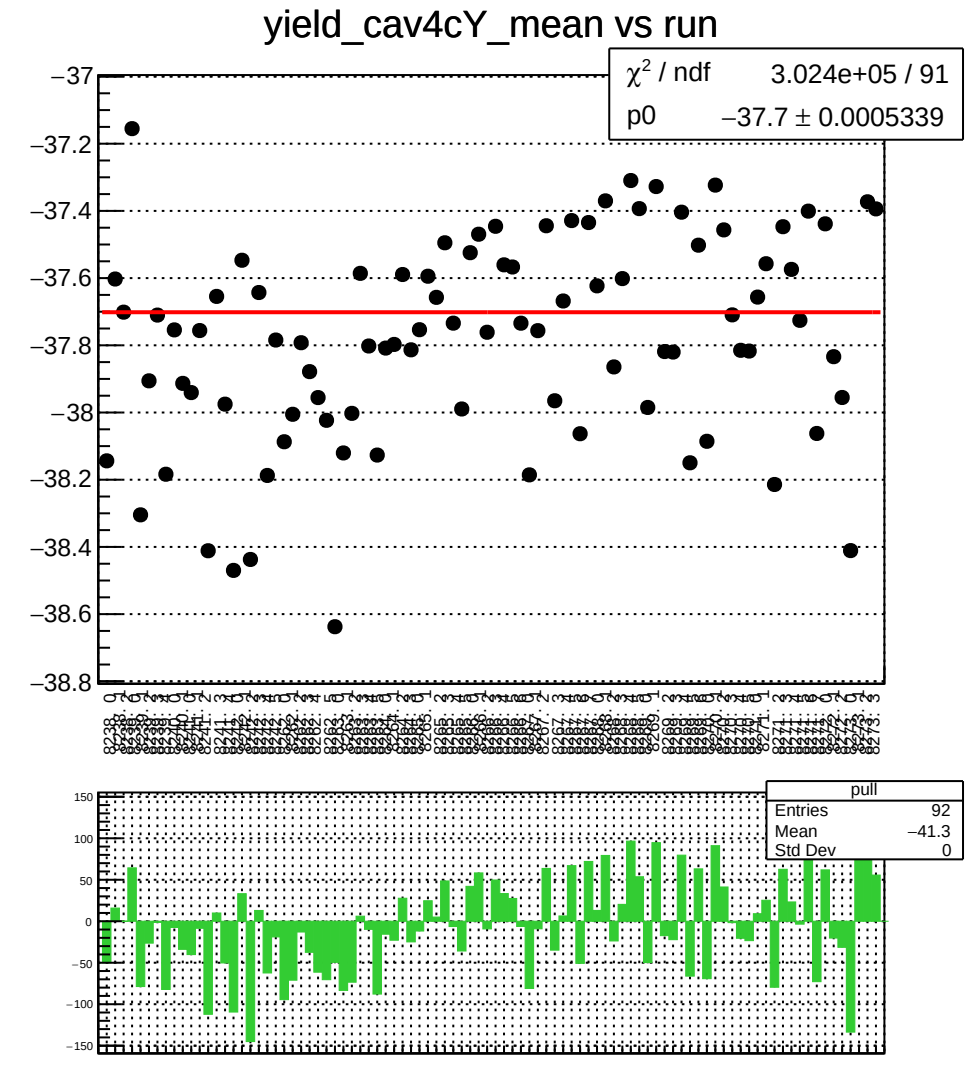

yield_cav4bY_mean vs run
χ² / ndf 1.191e+06 / 91
p0 −67.94 ± 0.001688
pull
Entries 92
Mean 30.4
Std Dev 35.6

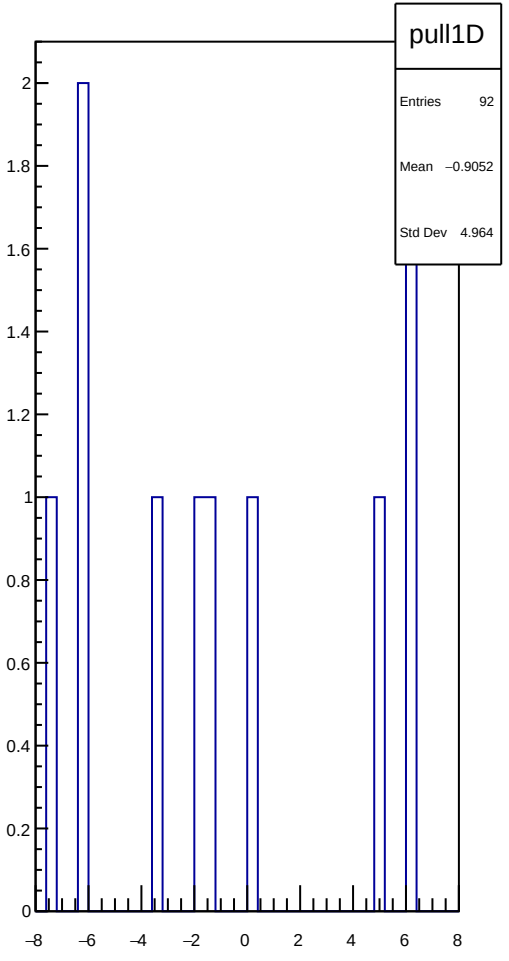

pull1D
Entries 92
Mean −3.217
Std Dev 4.956

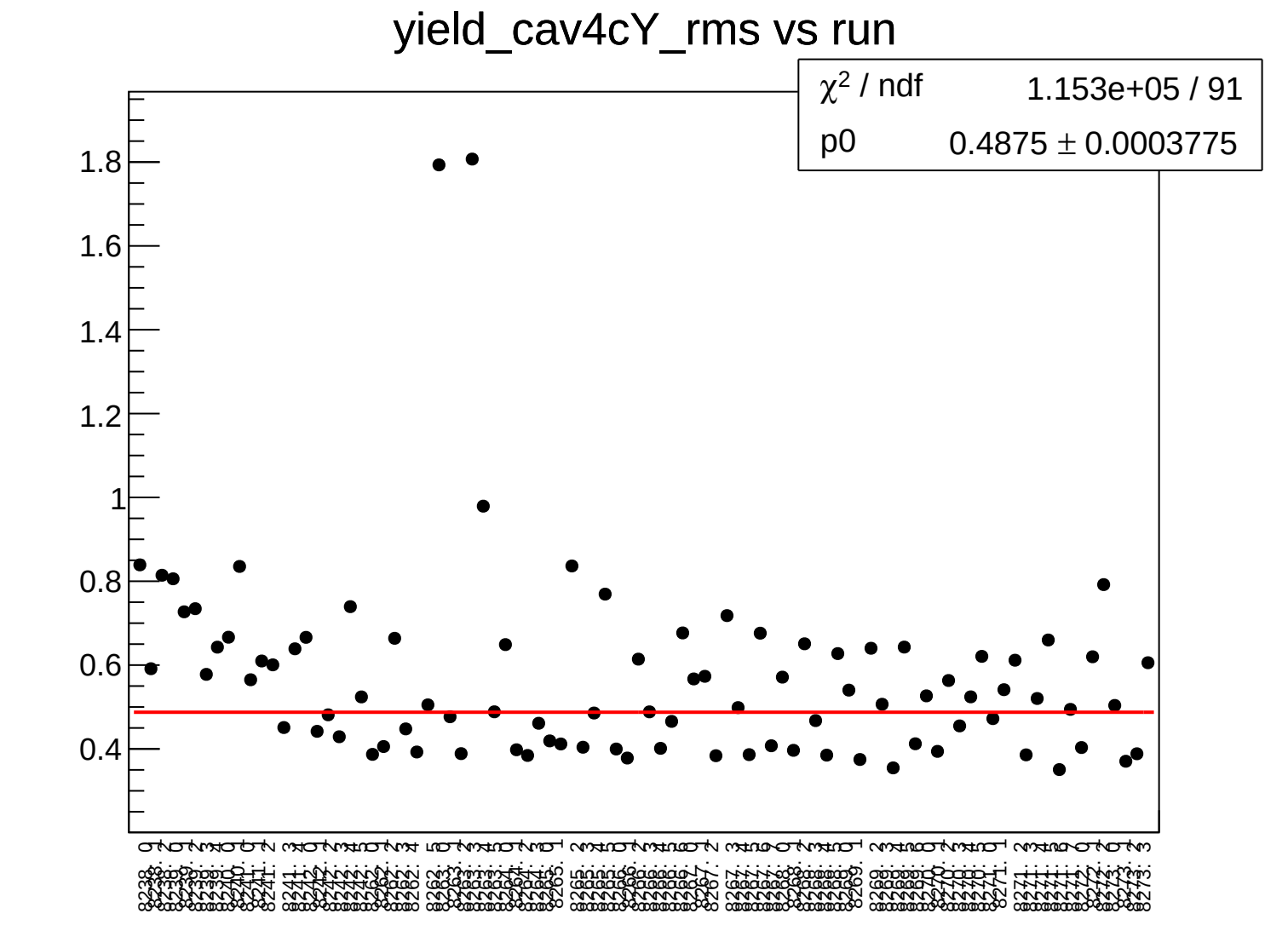

yield_cav4bY_rms vs run
χ² / ndf 3.494e+05 / 91
p0 1.429 ± 0.001194
4.5
4
3.5
3
2.5
2
1.5
1
0.5

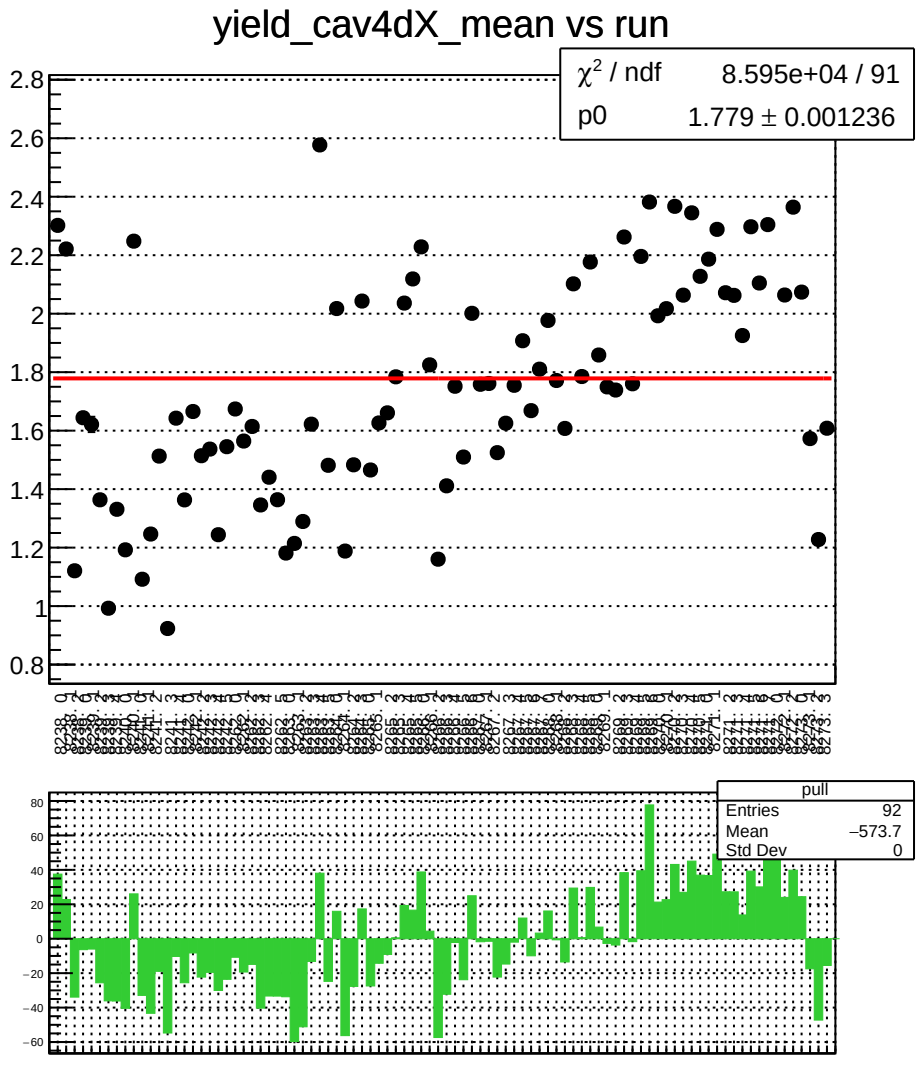

yield_cav4cX_mean vs run
χ² / ndf 7.019e+04 / 91
p0 0.7721± 0.001439
pull
Entries 92
Mean −353.7
Std Dev 0
pull1D
Entries 92
Mean −1.508
Std Dev 4.955

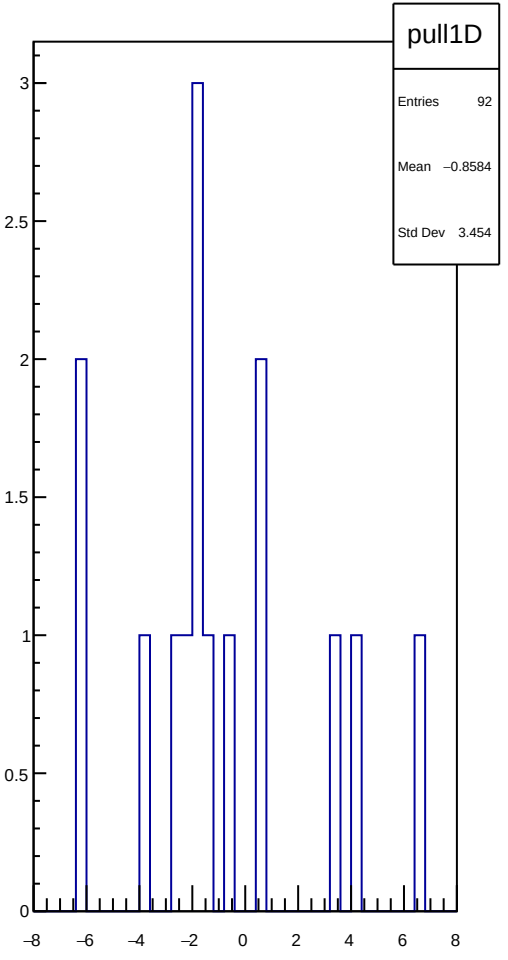

yield_cav4cX_rms vs run
$\chi^2$ / ndf 6.758e+04 / 91
p0 1.333 ± 0.001018
3
2.5
2
1.5
1

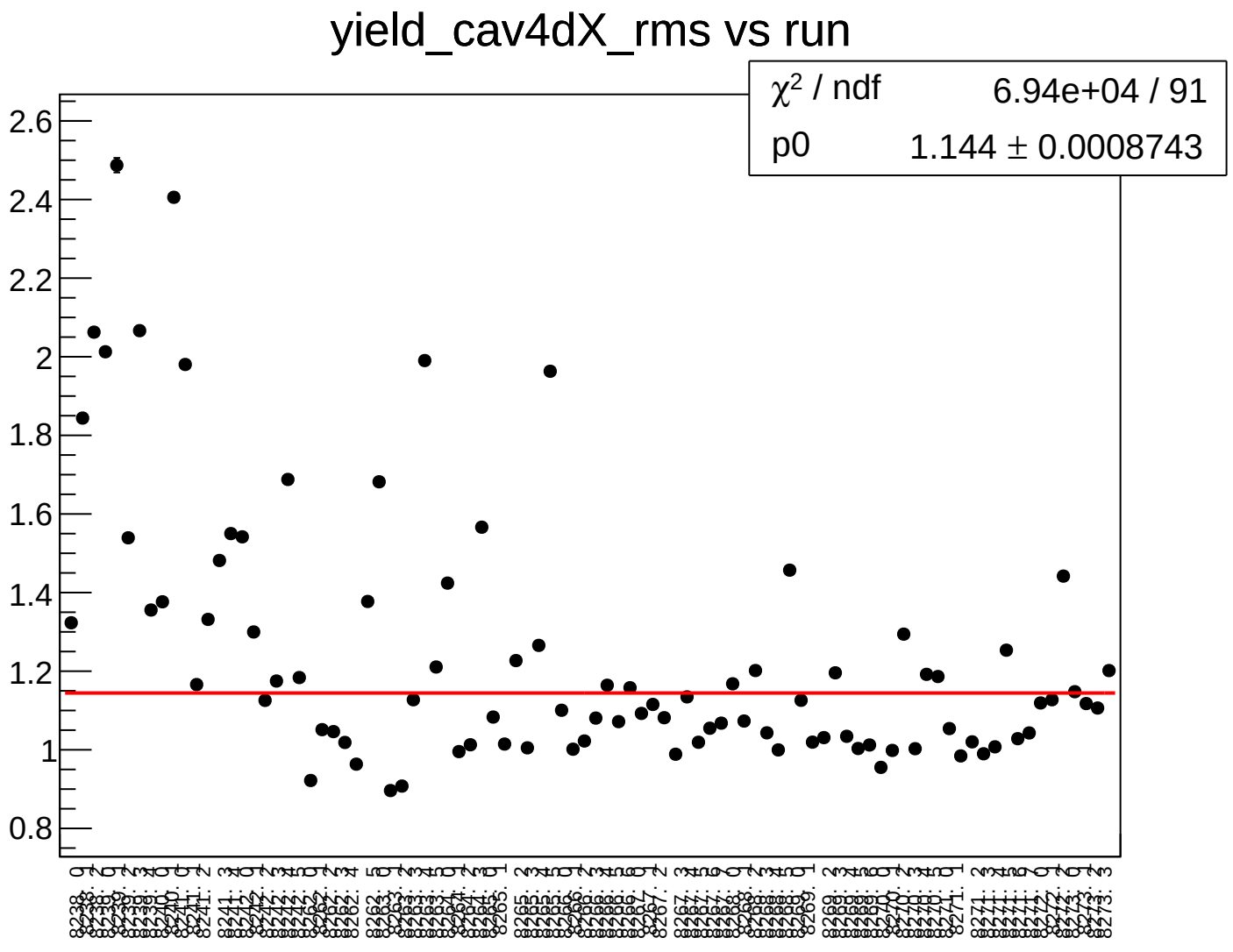

yield_cav4cY_mean vs run
χ² / ndf 3.024e+05 / 91
p0 −37.7 ± 0.0005339
pull
Entries 92
Mean −41.3
Std Dev 0

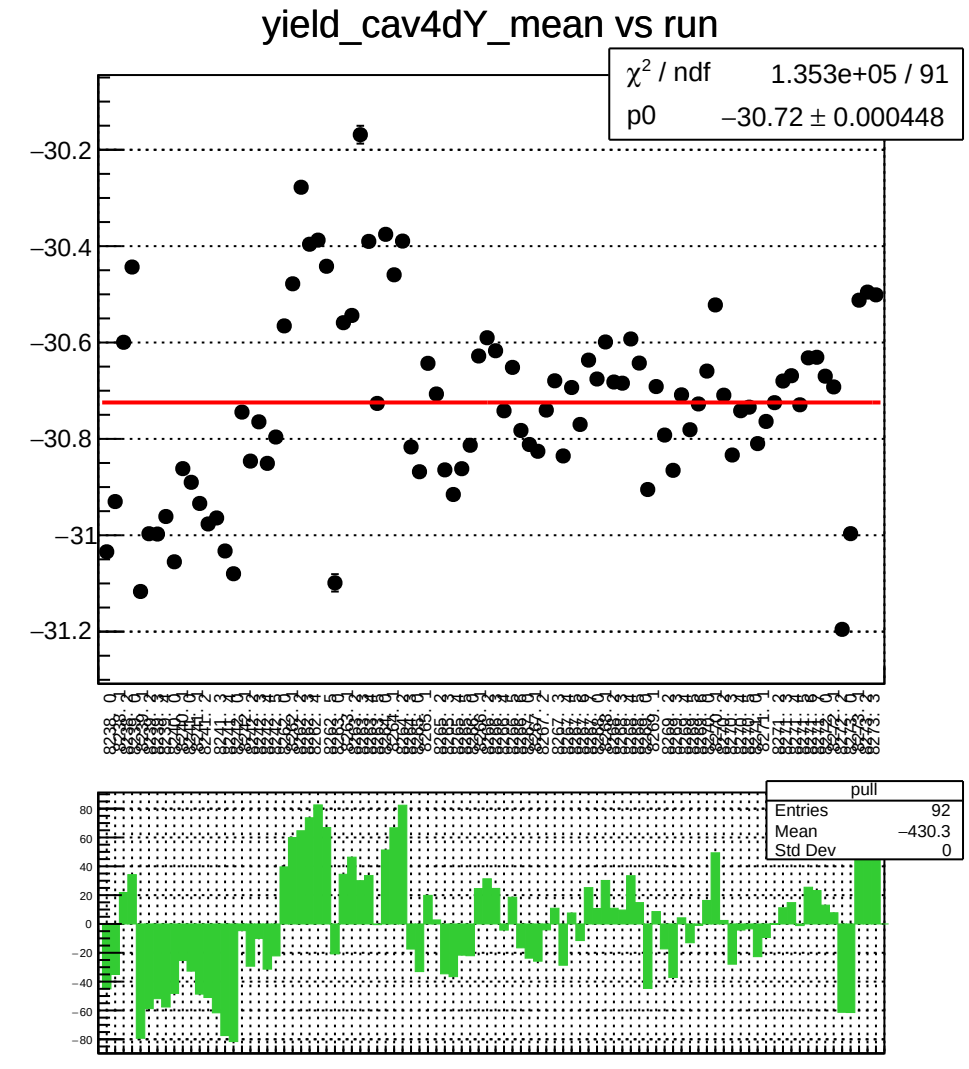

pull1D
Entries 92
Mean −0.9052
Std Dev 4.964

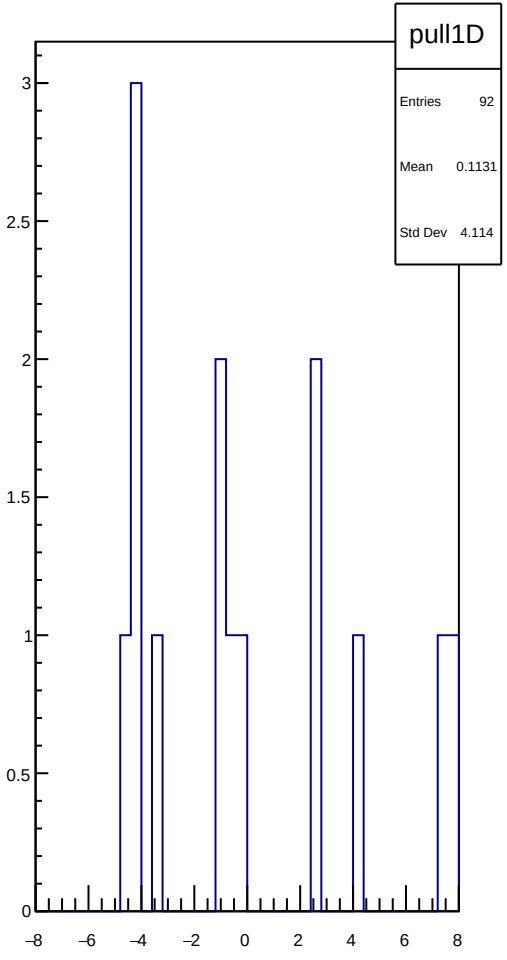

yield_cav4cY_rms vs run
χ² / ndf 1.153e+05 / 91
p0 0.4875 ± 0.0003775
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4

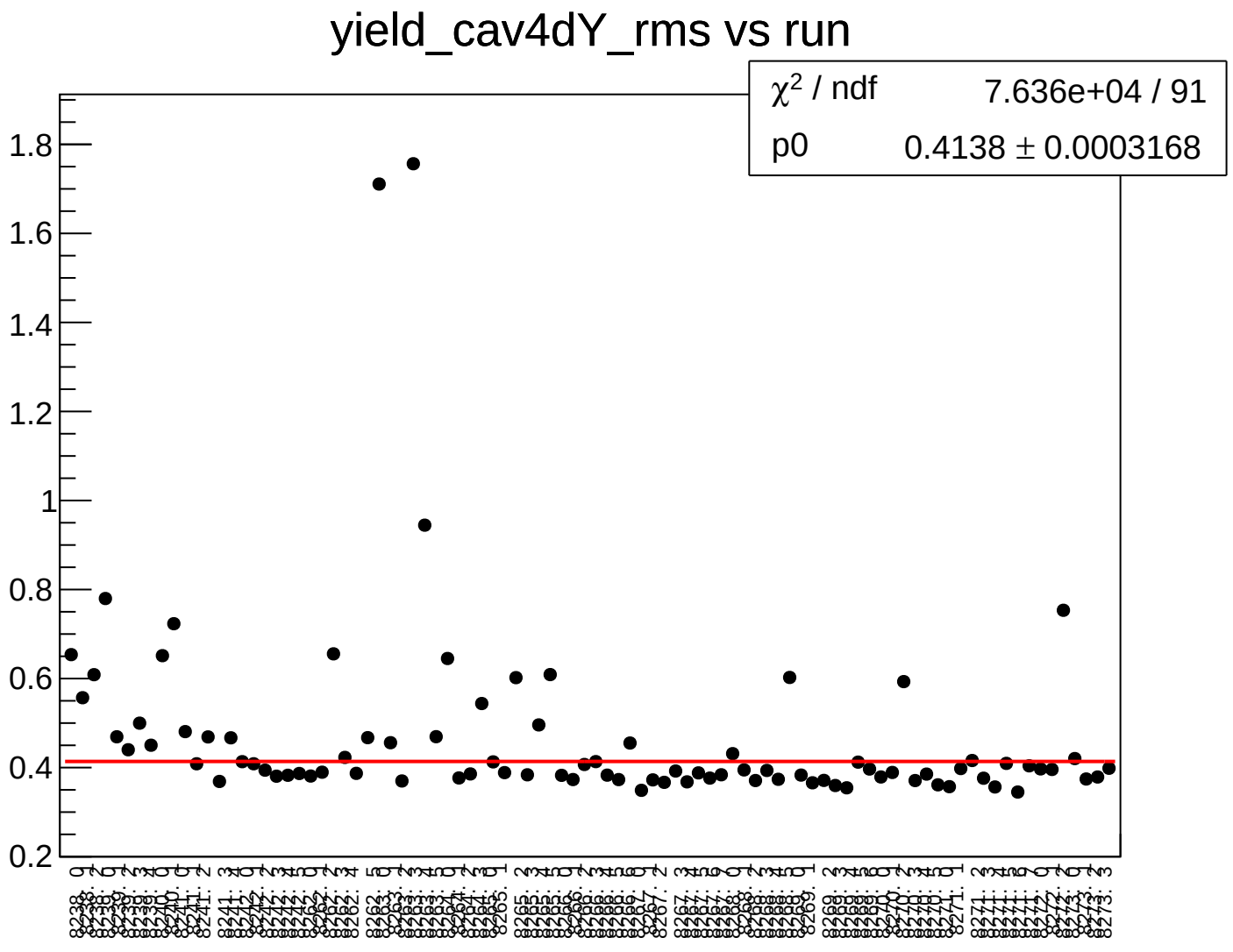

yield_cav4dX_mean vs run
χ² / ndf 8.595e+04 / 91
p0 1.779 ± 0.001236
pull
Entries 92
Mean −573.7
Std Dev 0

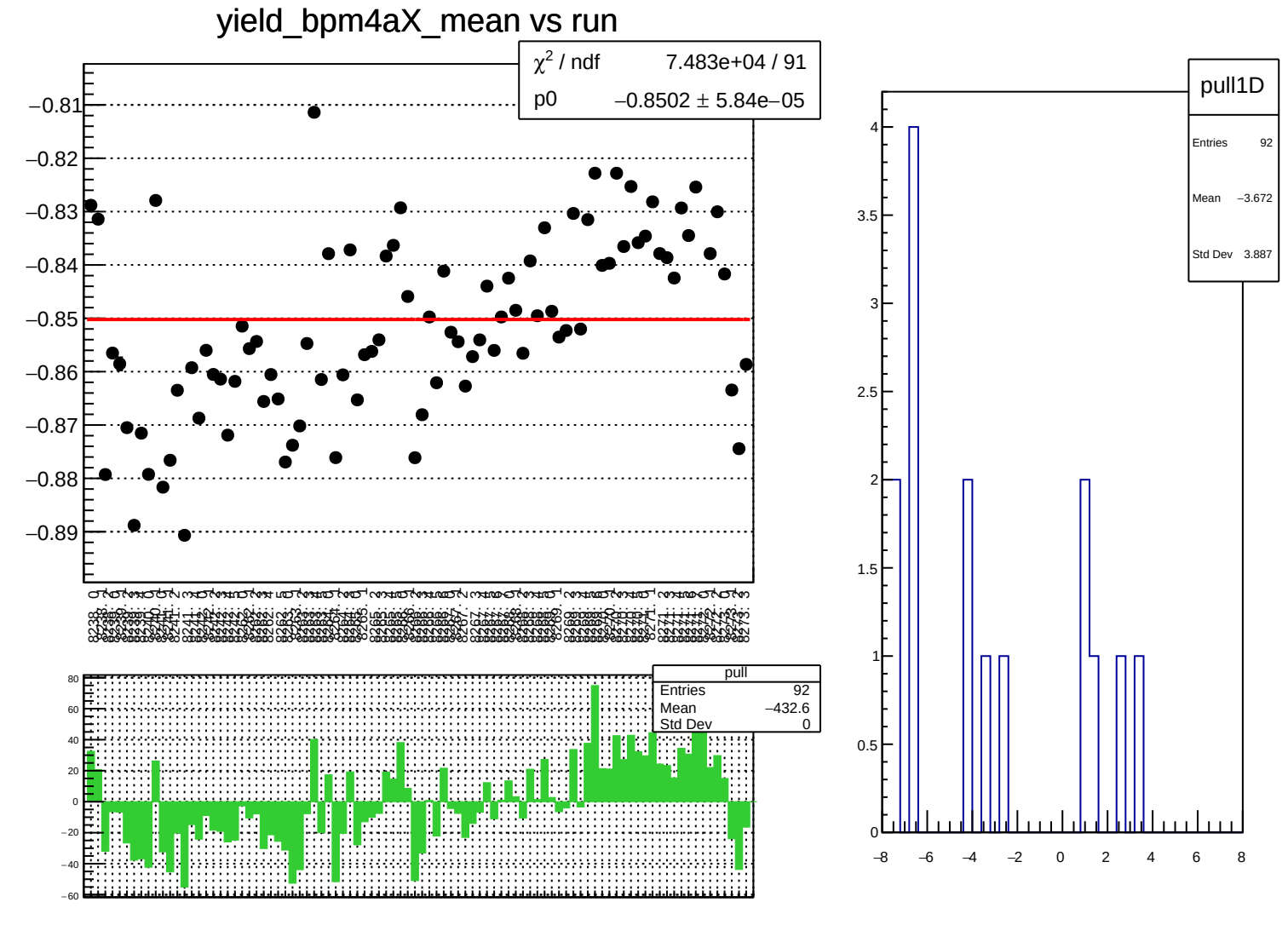

pull1D
Entries 92
Mean −0.8584
Std Dev 3.454

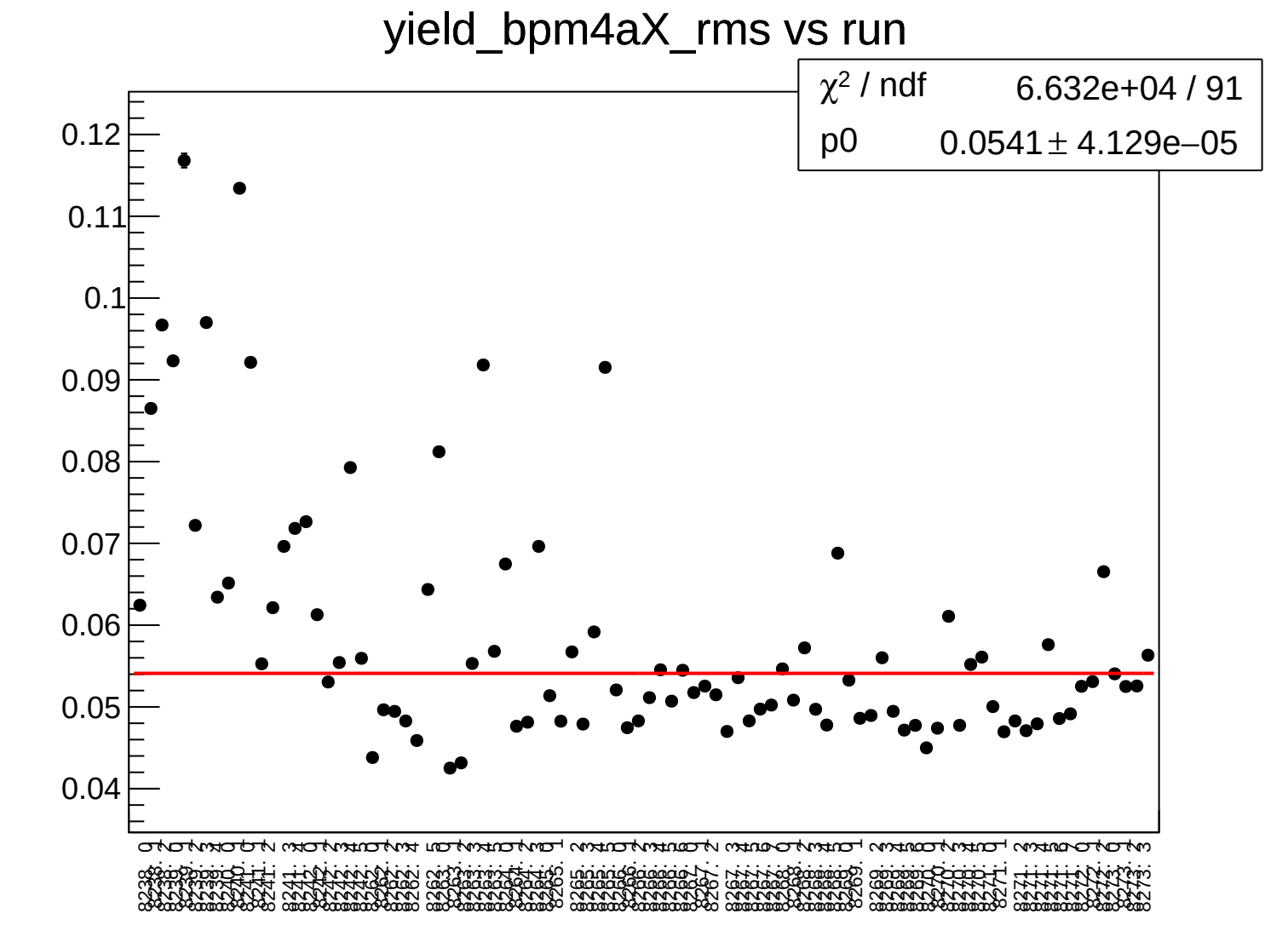

yield_cav4dX_rms vs run
χ² / ndf 6.94e+04 / 91
p0 1.144 ± 0.0008743
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8

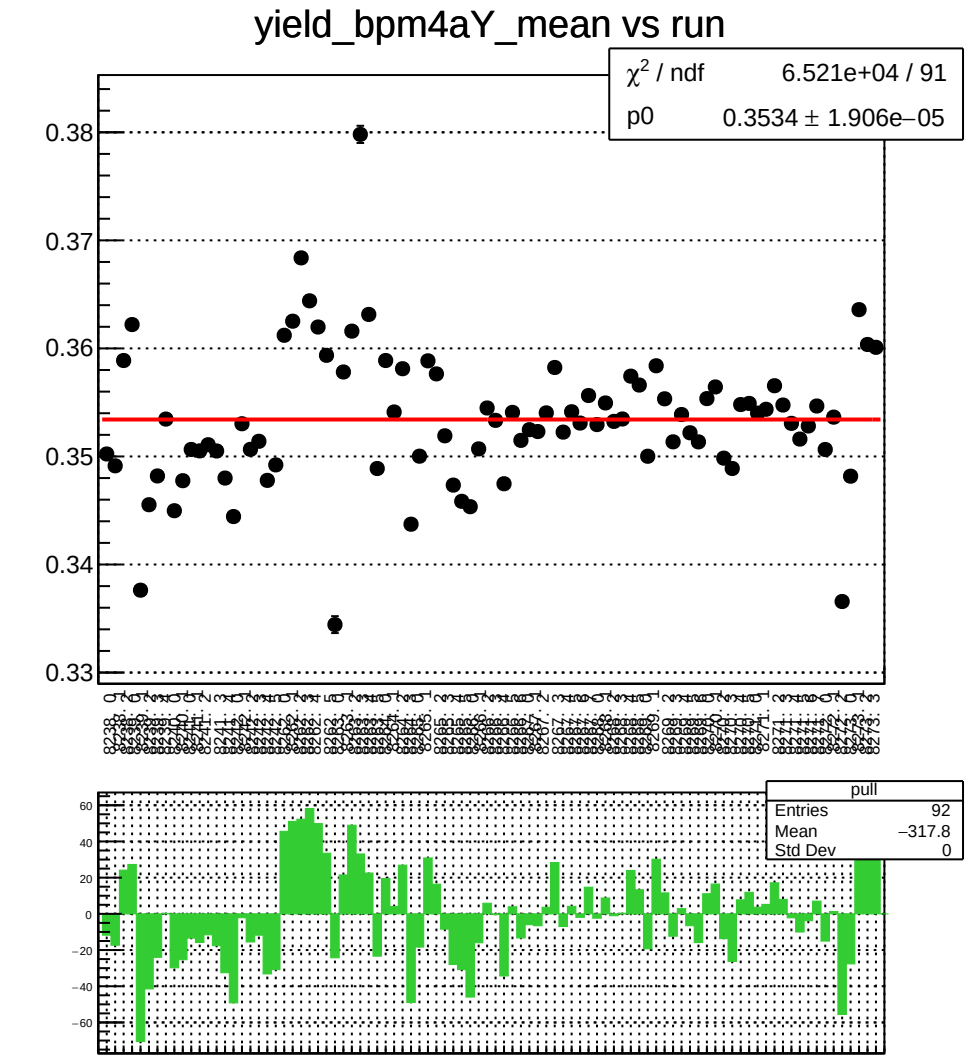

yield_cav4dY_mean vs run
χ² / ndf 1.353e+05 / 91
p0 −30.72 ± 0.000448
−30.2
−30.4
−30.6
−30.8
−31
−31.2
pull
Entries 92
Mean −430.3
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

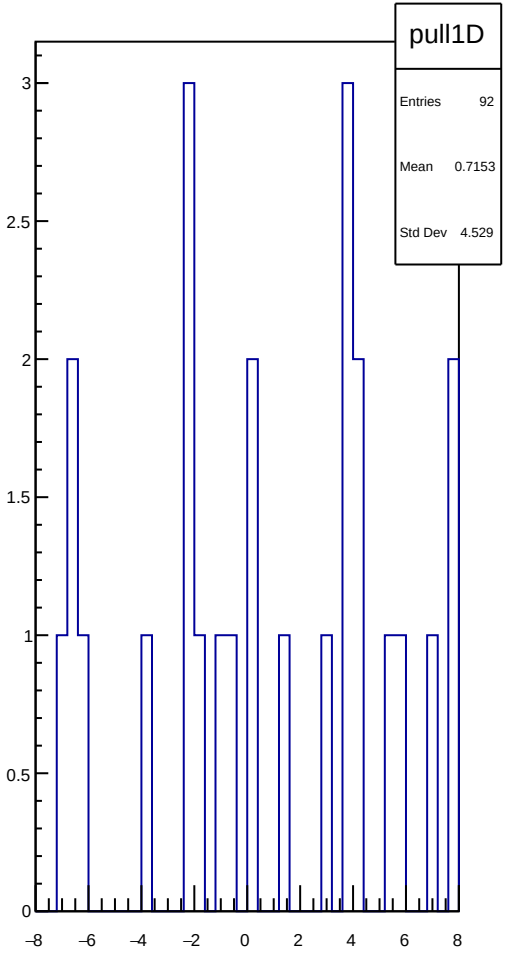

pull1D
Entries 92
Mean 0.1131
Std Dev 4.114
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

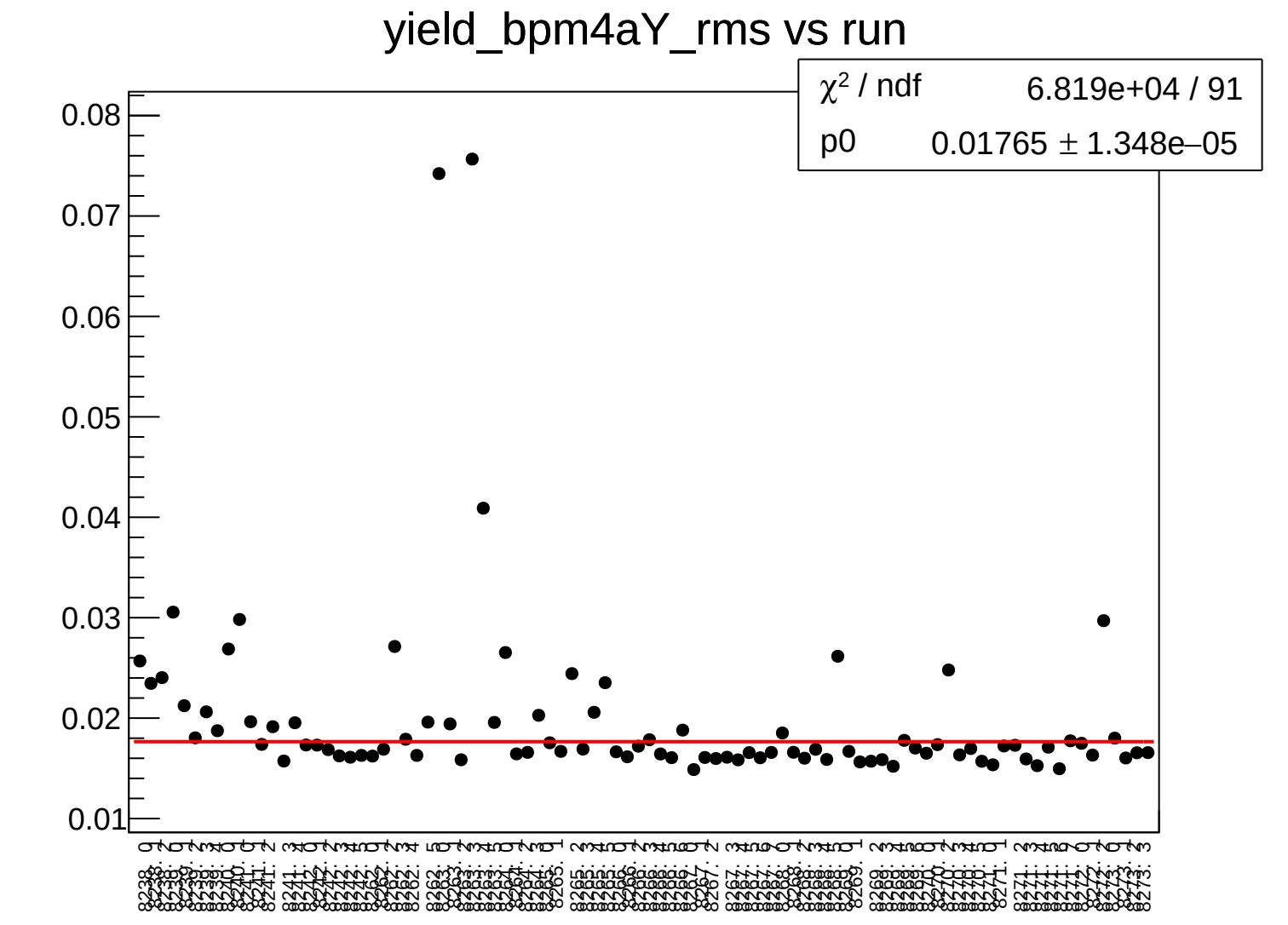

yield_cav4dY_rms vs run
$\chi^2$ / ndf 7.636e+04 / 91
p0 0.4138 ± 0.0003168
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

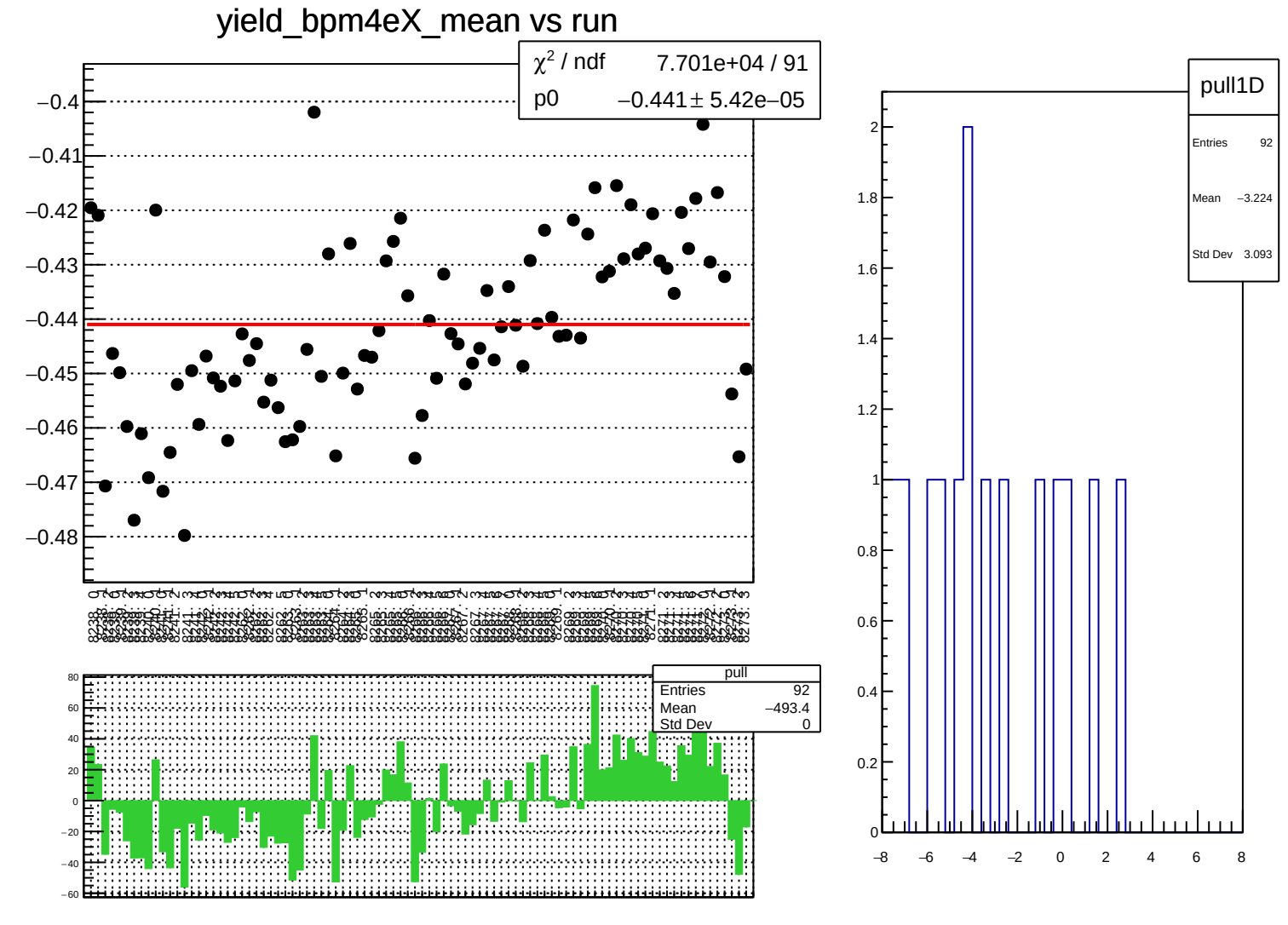

yield_bpm4aX_mean vs run
χ² / ndf 7.483e+04 / 91
p0 −0.8502 ± 5.84e−05
−0.81
−0.82
−0.83
−0.84
−0.85
−0.86
−0.87
−0.88
−0.89
pull
Entries 92
Mean −432.6
Std Dev 0
80
60
40
20
0
−20
−40
−60
pull1D
Entries 92
Mean −3.672
Std Dev 3.887
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

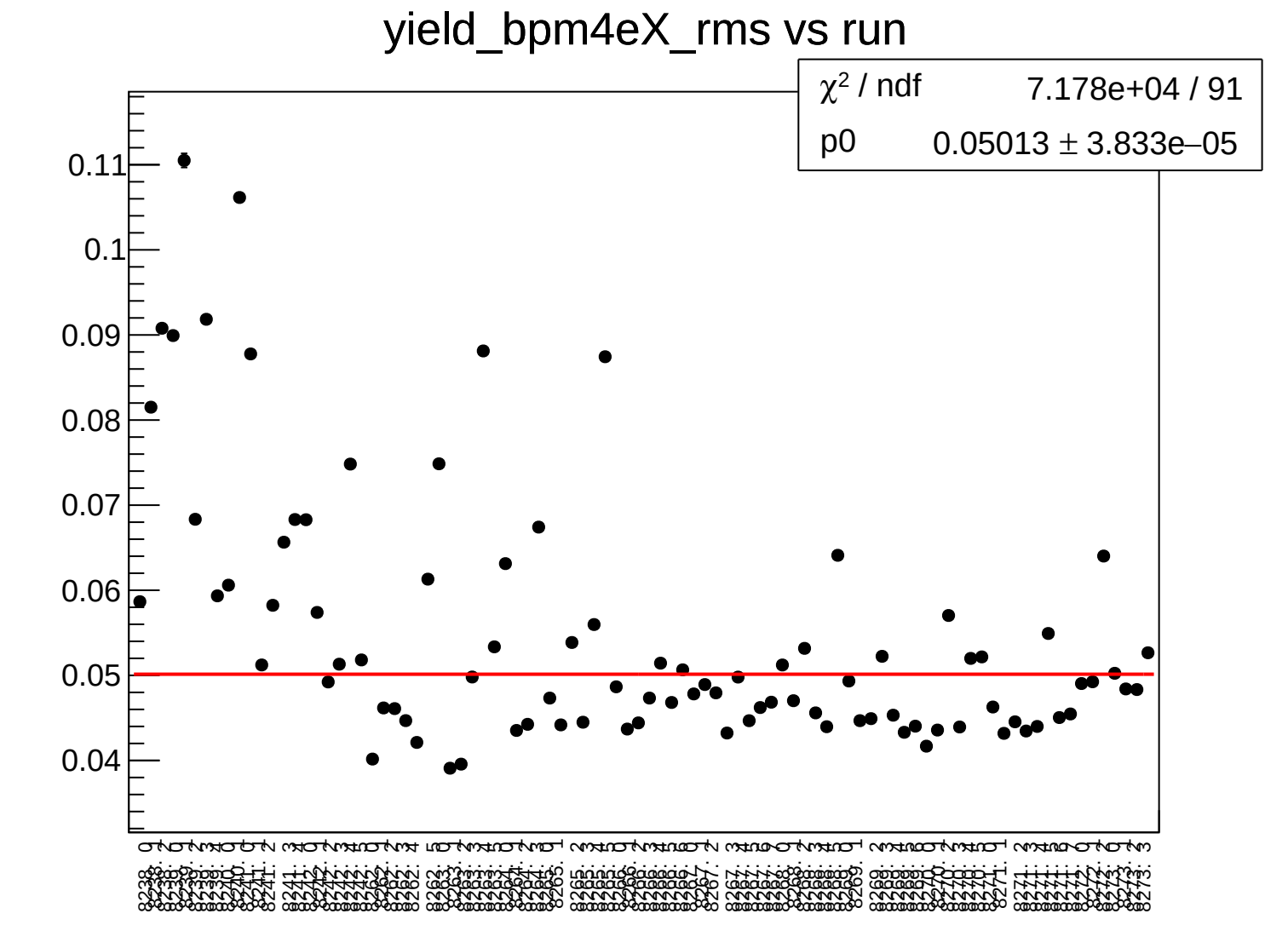

yield_bpm4aX_rms vs run
χ² / ndf 6.632e+04 / 91
p0 0.0541 ± 4.129e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

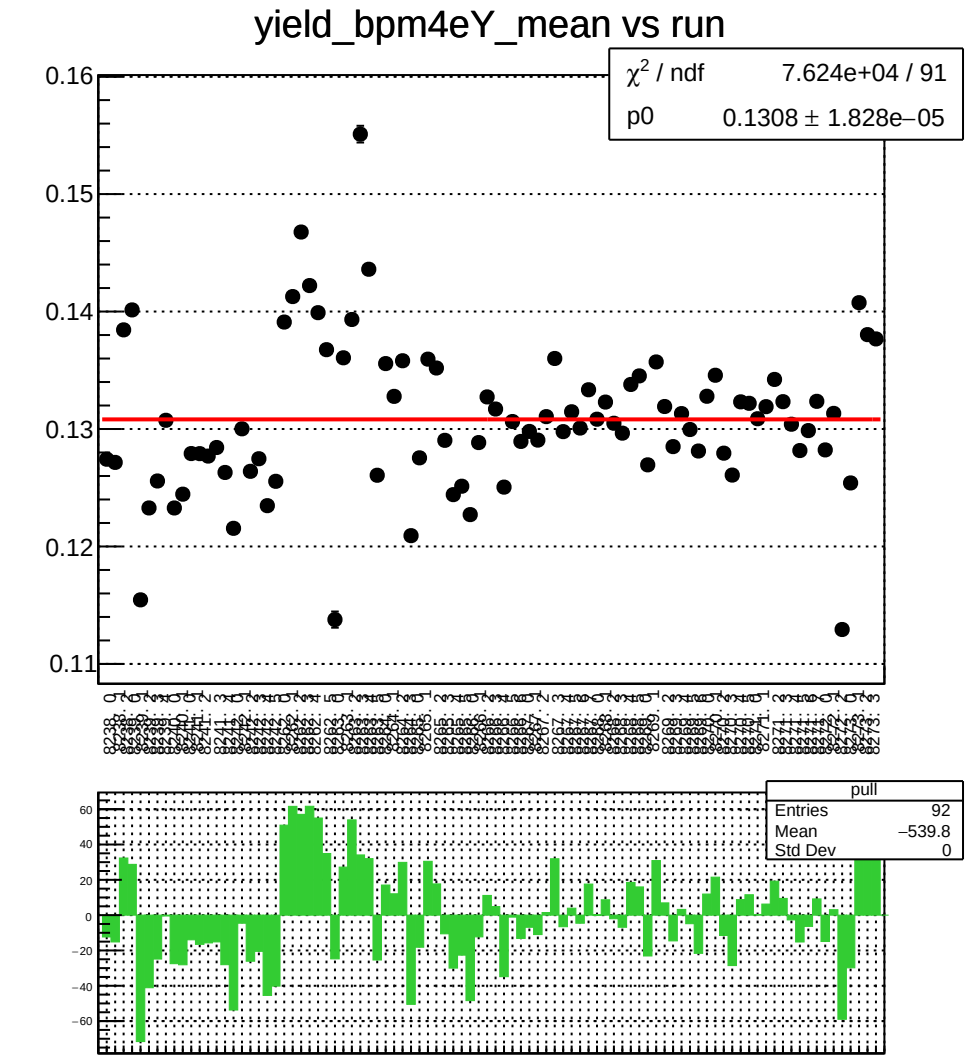

yield_bpm4aY_mean vs run
χ² / ndf 6.521e+04 / 91
p0 0.3534 ± 1.906e−05
0.38
0.37
0.36
0.35
0.34
0.33
pull
Entries 92
Mean −317.8
Std Dev 0
60
40
20
0
−20
−40
−60

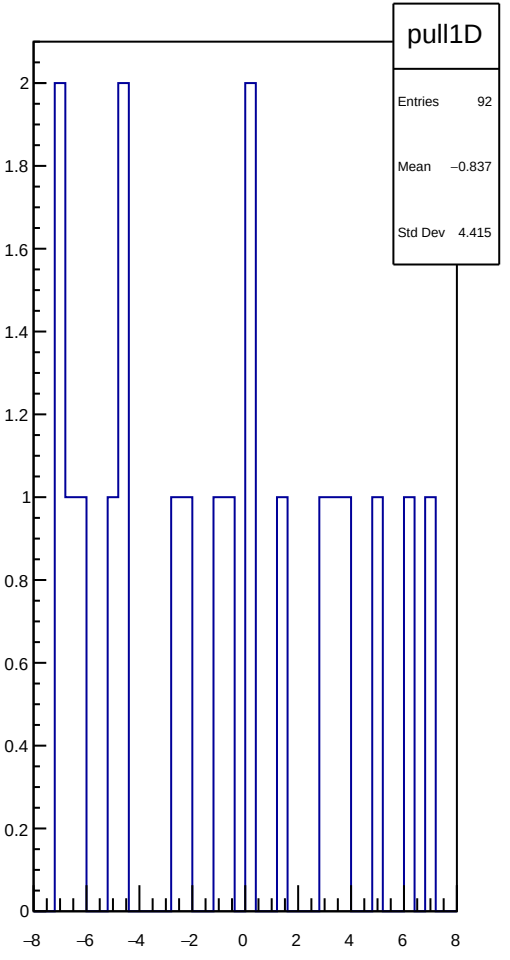

pull1D
Entries 92
Mean 0.7153
Std Dev 4.529
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

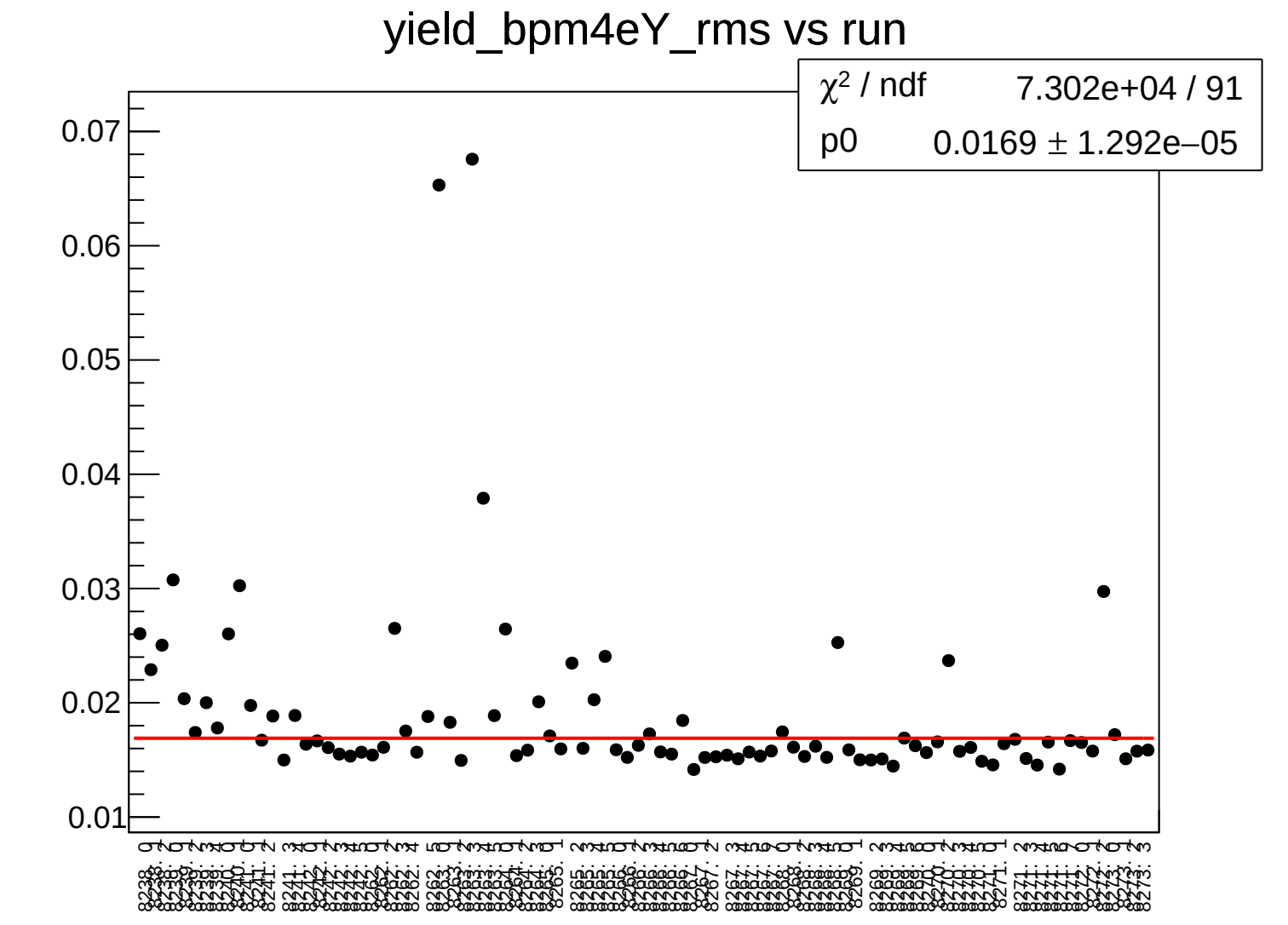

yield_bpm4aY_rms vs run
χ² / ndf 6.819e+04 / 91
p0 0.01765 ± 1.348e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

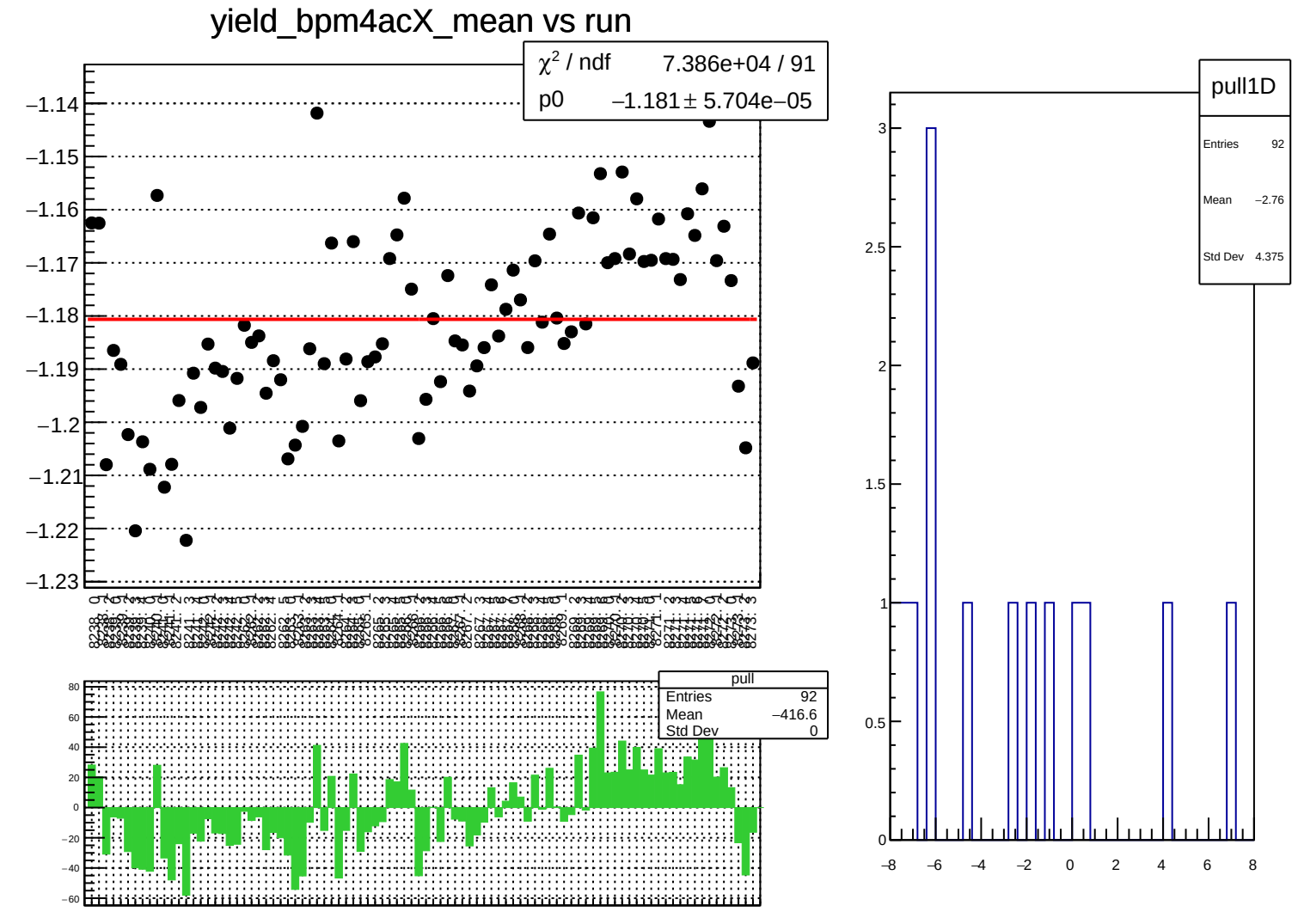

yield_bpm4eX_mean vs run
χ² / ndf 7.701e+04 / 91
p0 −0.441 ± 5.42e−05
pull
Entries 92
Mean −493.4
Std Dev 0
pull1D
Entries 92
Mean −3.224
Std Dev 3.093

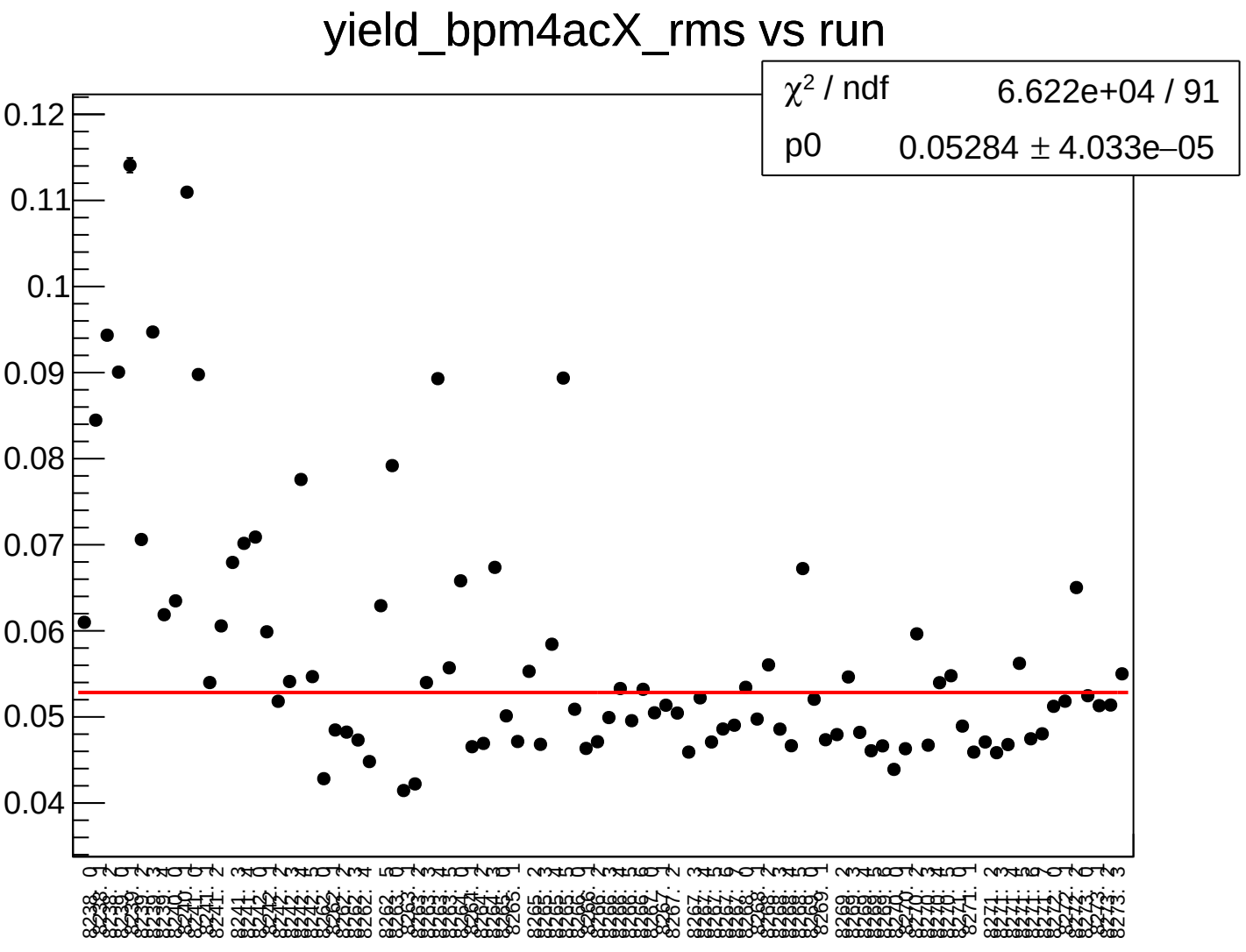

yield_bpm4eX_rms vs run
χ² / ndf 7.178e+04 / 91
p0 0.05013 ± 3.833e–05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

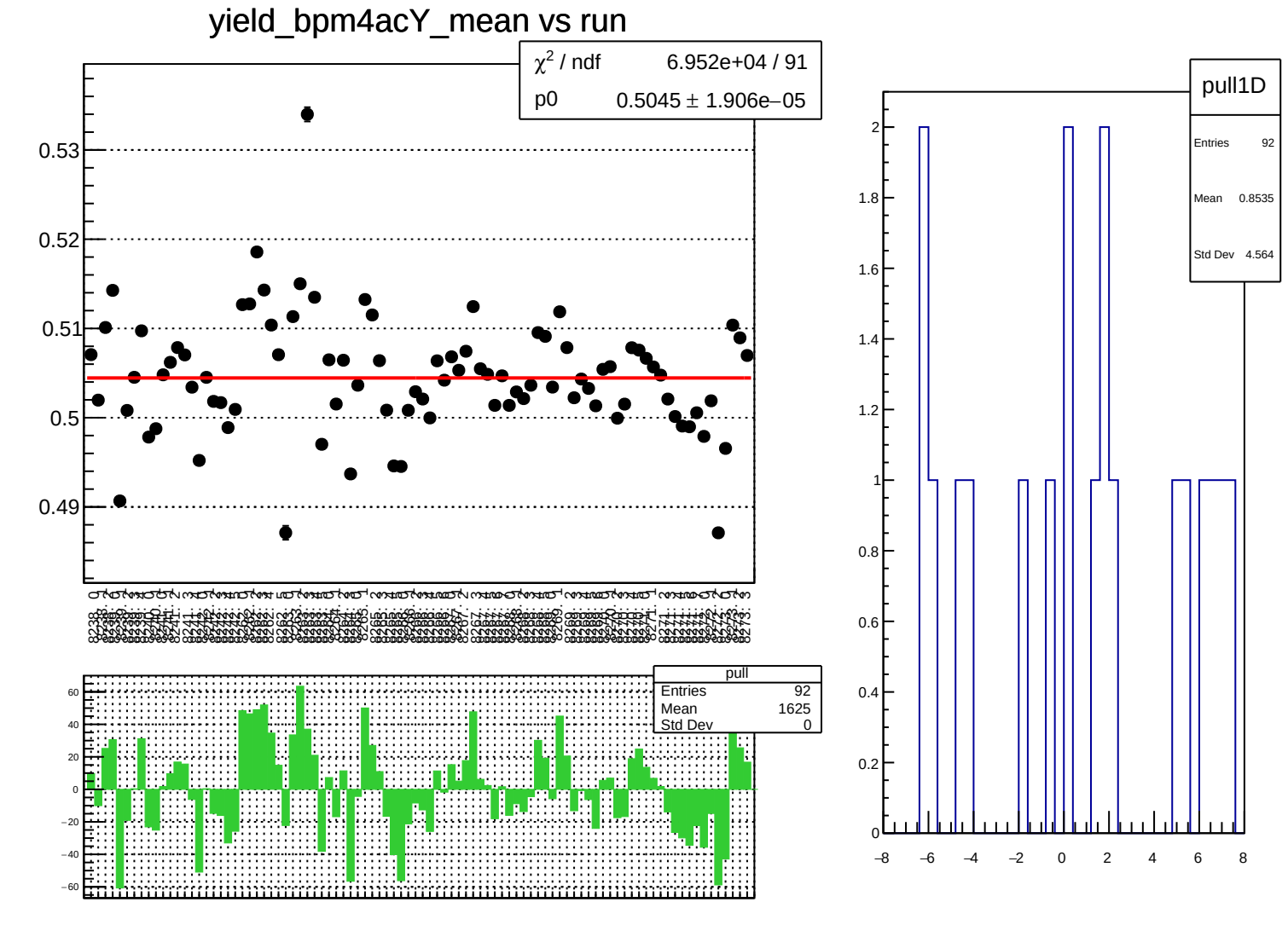

yield_bpm4eY_mean vs run
χ² / ndf 7.624e+04 / 91
p0 0.1308 ± 1.828e−05
0.16
0.15
0.14
0.13
0.12
0.11
pull
Entries 92
Mean −539.8
Std Dev 0
60
40
20
0
−20
−40
−60

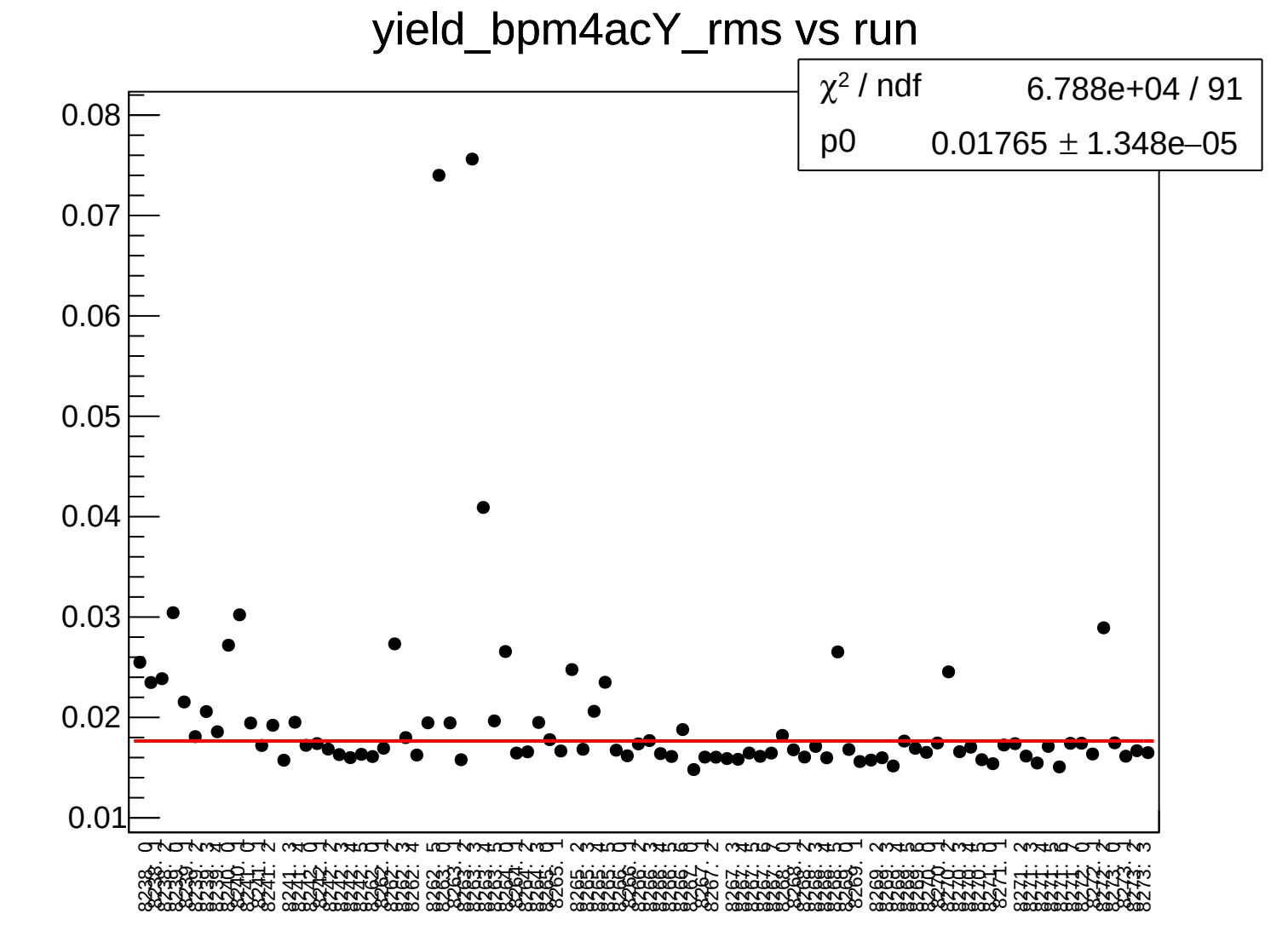

pull1D
Entries 92
Mean −0.837
Std Dev 4.415
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

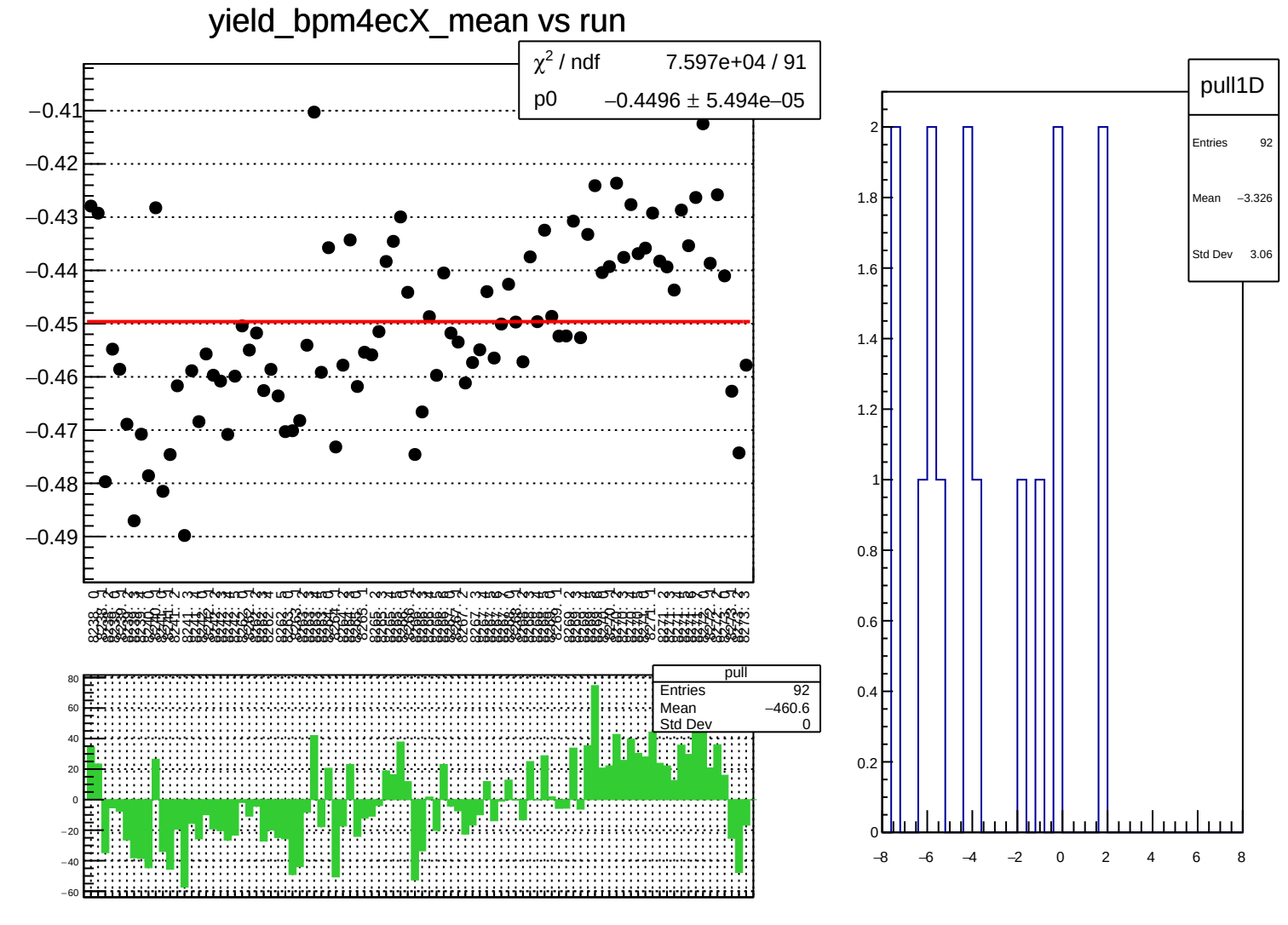

yield_bpm4eY_rms vs run
χ² / ndf 7.302e+04 / 91
p0 0.0169 ± 1.292e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

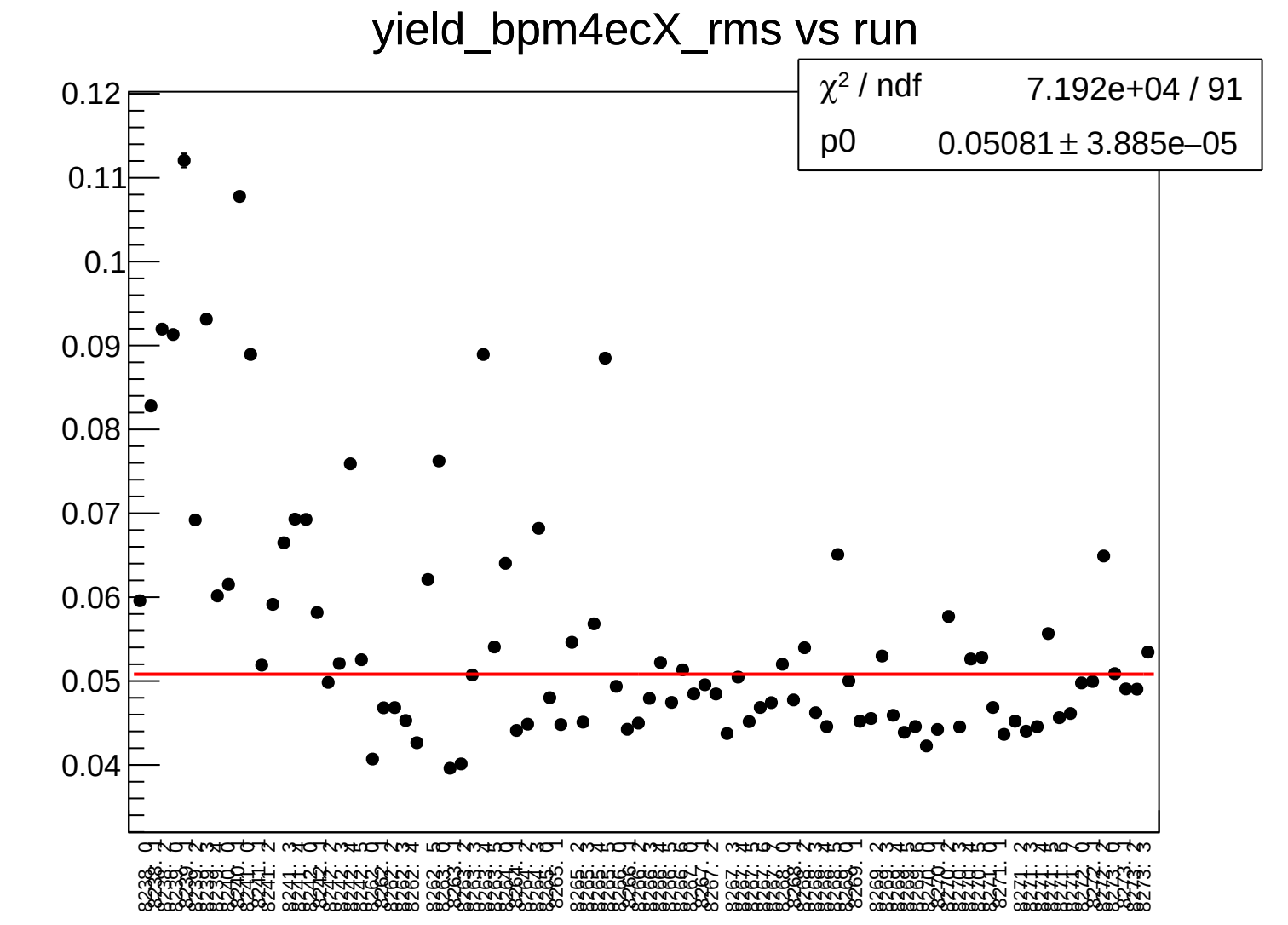

yield_bpm4acX_mean vs run
χ² / ndf 7.386e+04 / 91
p0 −1.181 ± 5.704e−05
−1.14
−1.15
−1.16
−1.17
−1.18
−1.19
−1.2
−1.21
−1.22
−1.23
pull
Entries 92
Mean −416.6
Std Dev 0
80
60
40
20
0
−20
−40
−60
pull1D
Entries 92
Mean −2.76
Std Dev 4.375
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

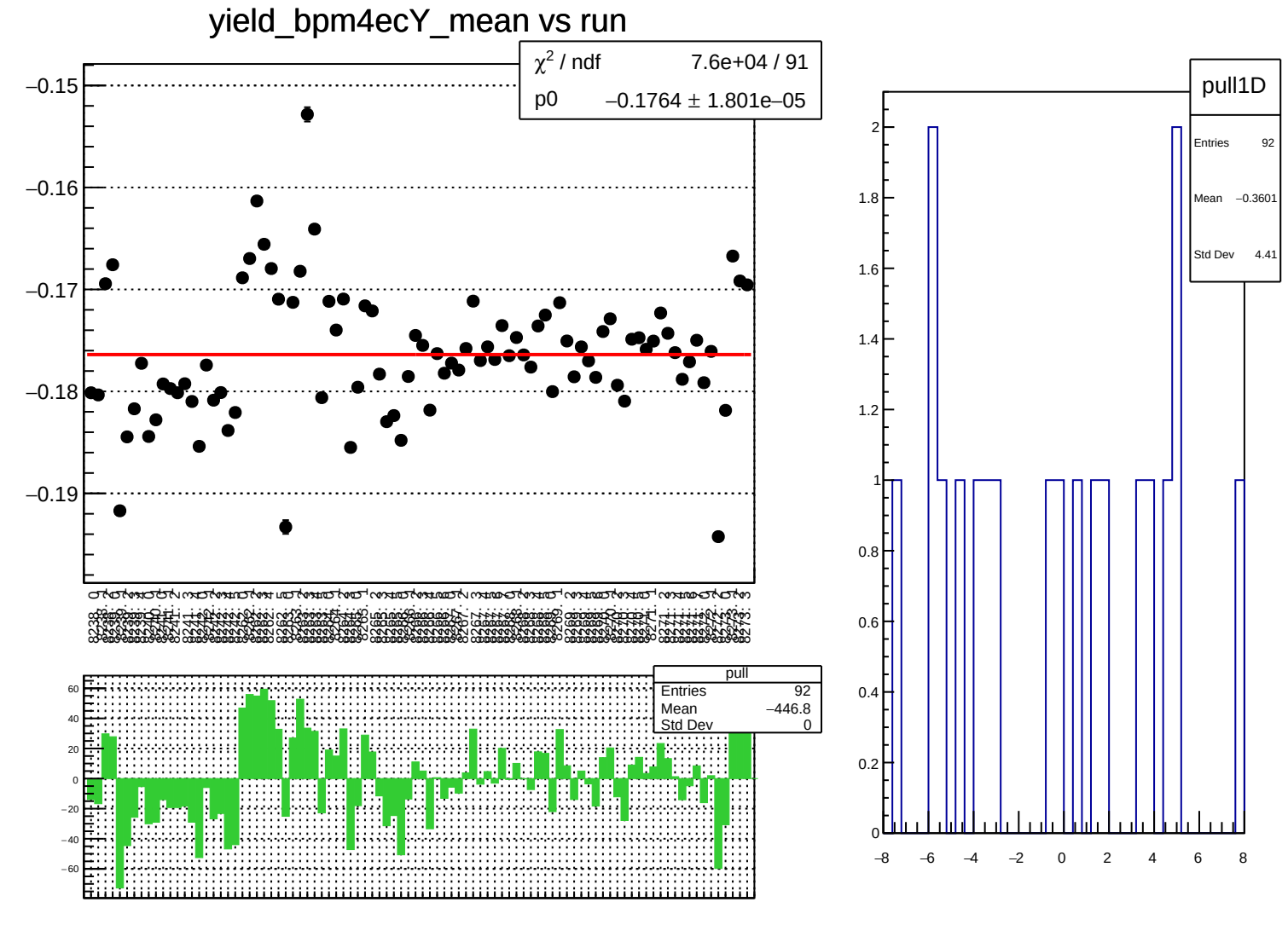

yield_bpm4acX_rms vs run
χ² / ndf 6.622e+04 / 91
p0 0.05284 ± 4.033e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

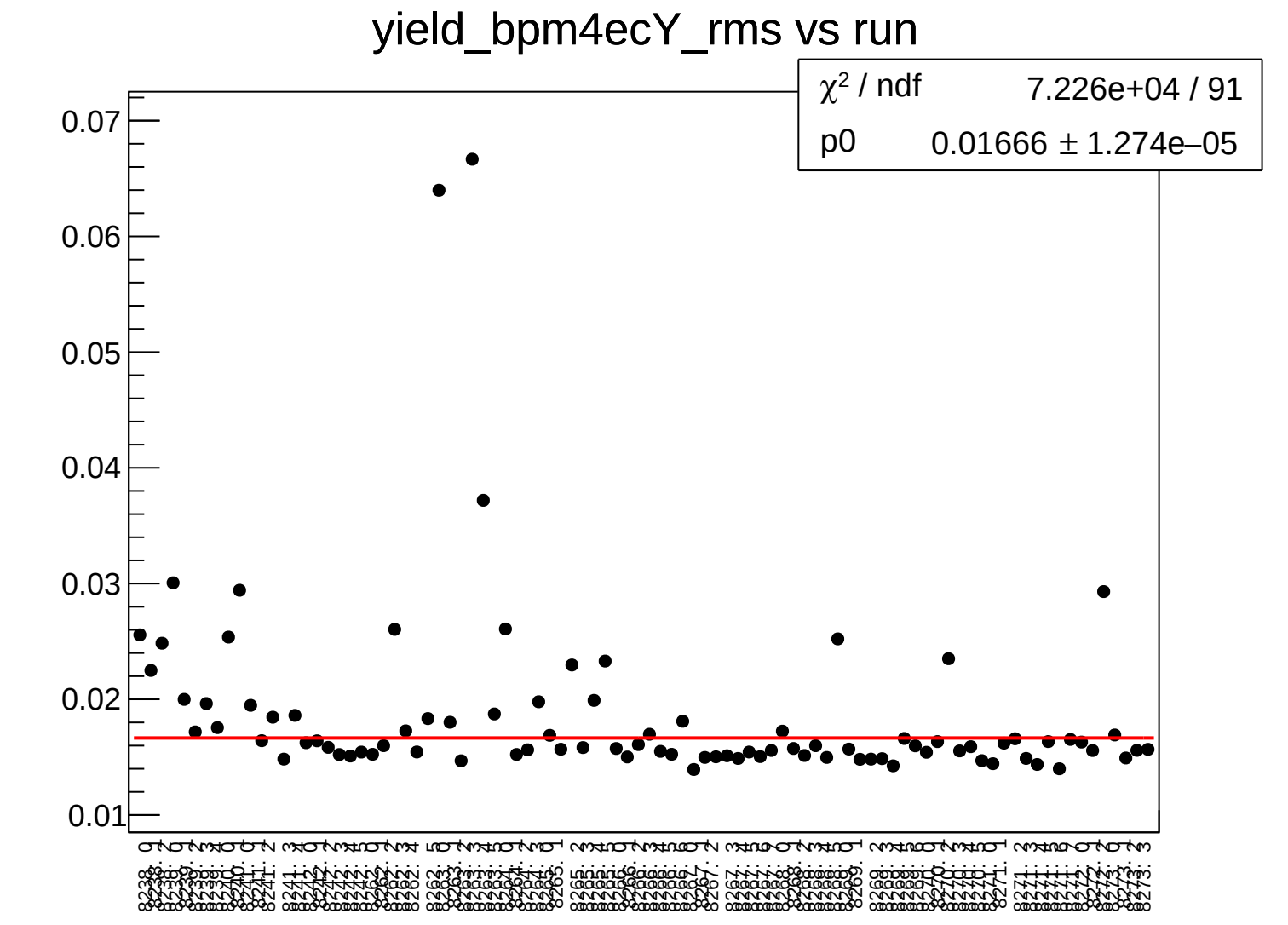

yield_bpm4acY_mean vs run
χ² / ndf 6.952e+04 / 91
p0 0.5045 ± 1.906e−05
0.53
0.52
0.51
0.5
0.49
pull
Entries 92
Mean 1625
Std Dev 0
60
40
20
0
−20
−40
−60
pull1D
Entries 92
Mean 0.8535
Std Dev 4.564
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

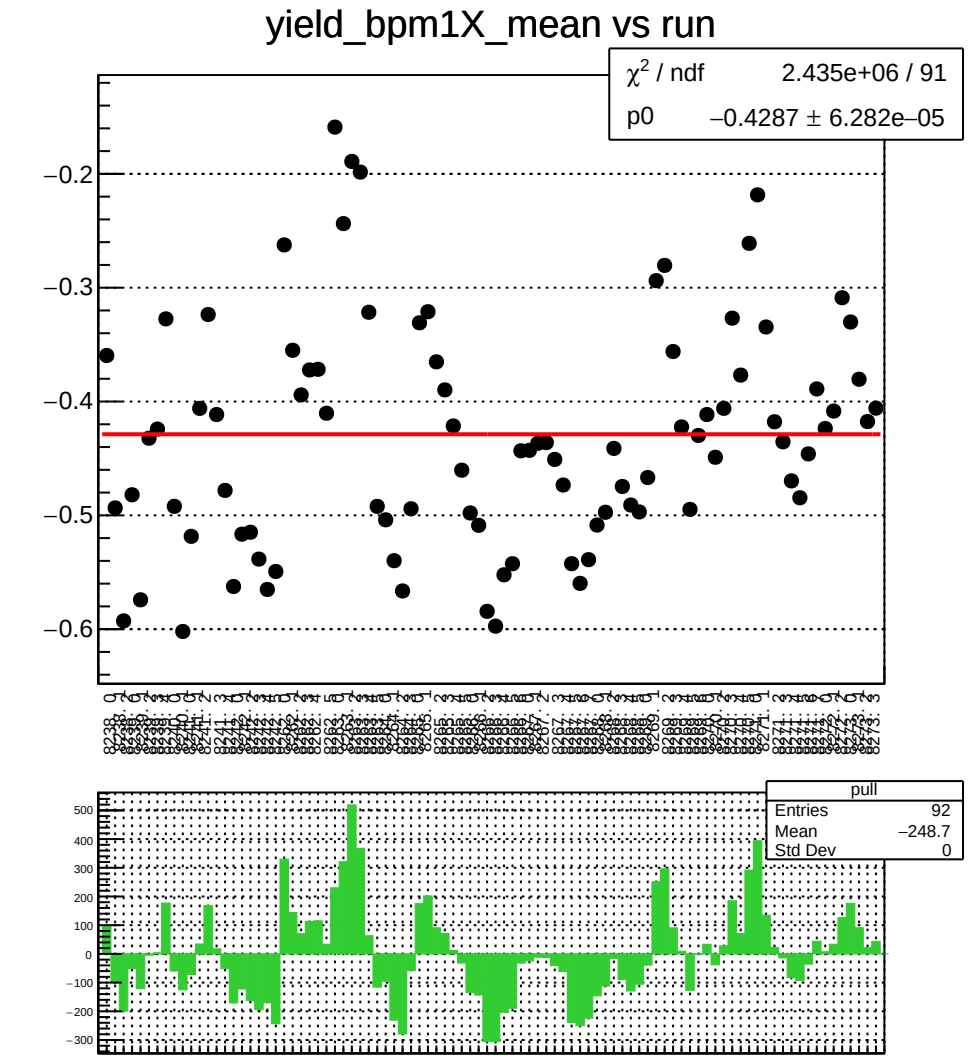

yield_bpm4acY_rms vs run
χ² / ndf 6.788e+04 / 91
p0 0.01765 ± 1.348e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

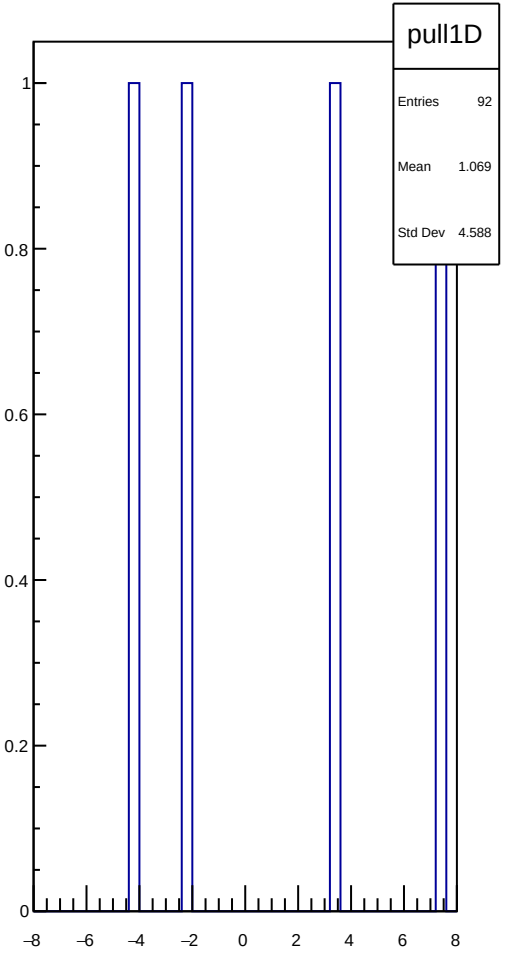

yield_bpm4ecX_mean vs run
χ² / ndf 7.597e+04 / 91
p0 −0.4496 ± 5.494e−05
pull
Entries 92
Mean −460.6
Std Dev 0
pull1D
Entries 92
Mean −3.326
Std Dev 3.06

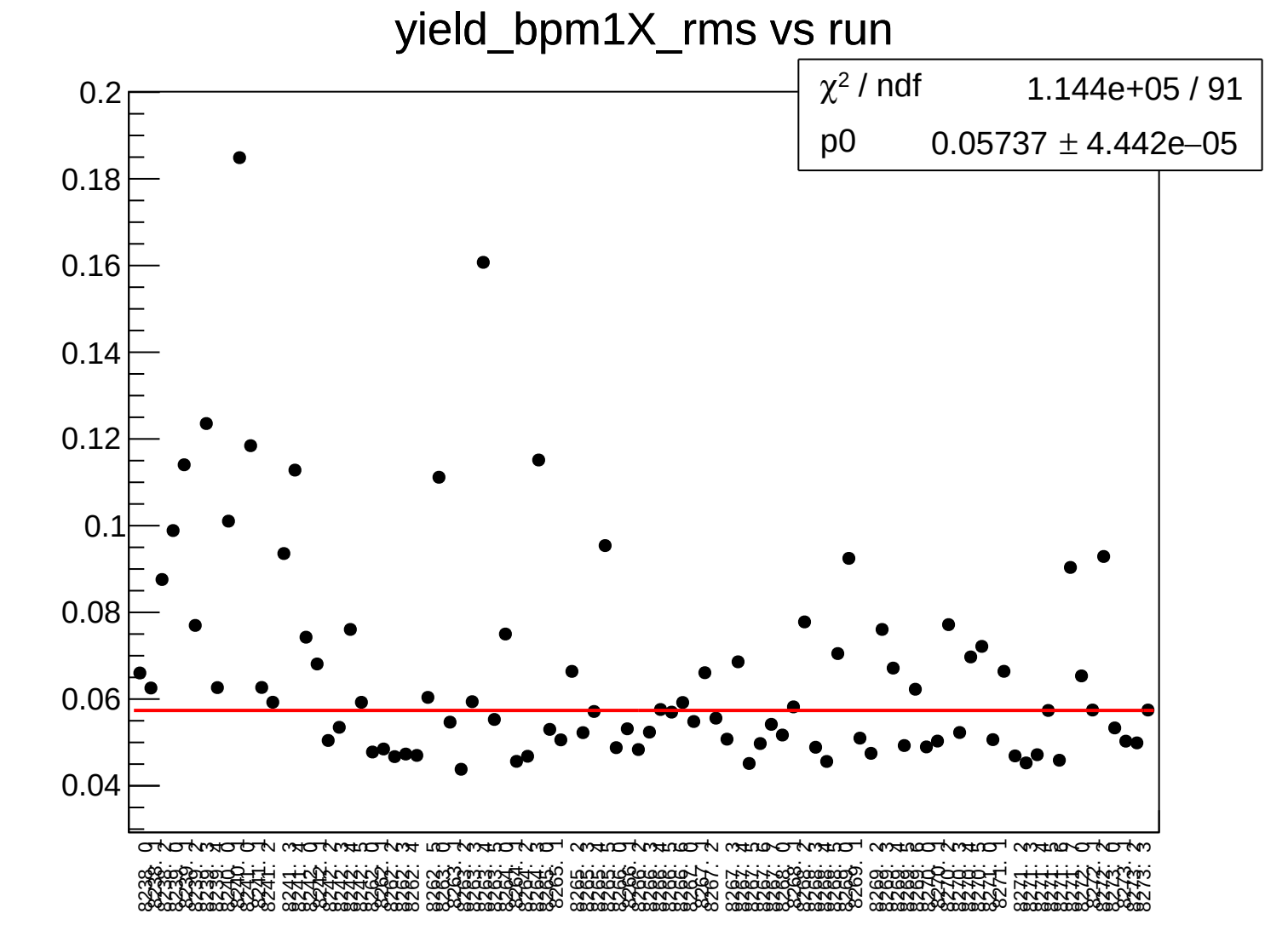

yield_bpm4ecX_rms vs run
χ² / ndf 7.192e+04 / 91
p0 0.05081 ± 3.885e–05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

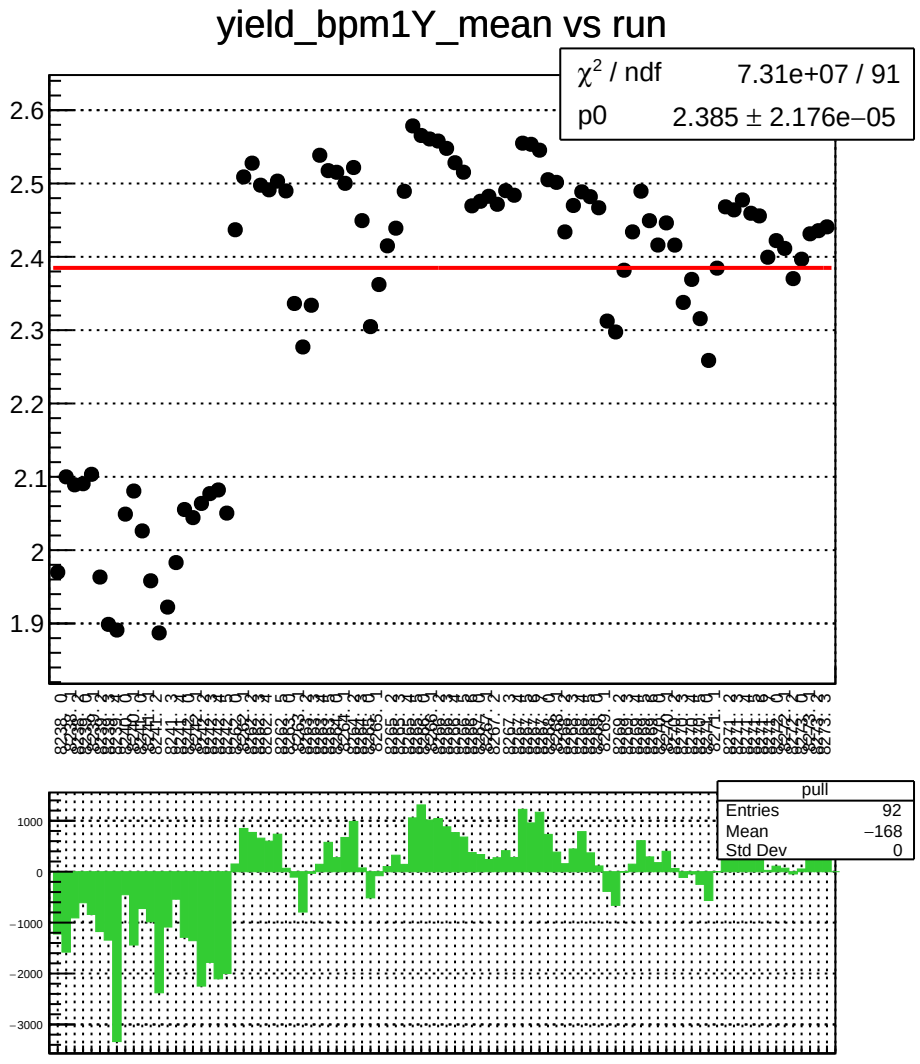

yield_bpm4ecY_mean vs run
χ² / ndf 7.6e+04 / 91
p0 −0.1764 ± 1.801e−05
−0.15
−0.16
−0.17
−0.18
−0.19
pull
Entries 92
Mean −446.8
Std Dev 0
60
40
20
0
−20
−40
−60
pull1D
Entries 92
Mean −0.3601
Std Dev 4.41
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

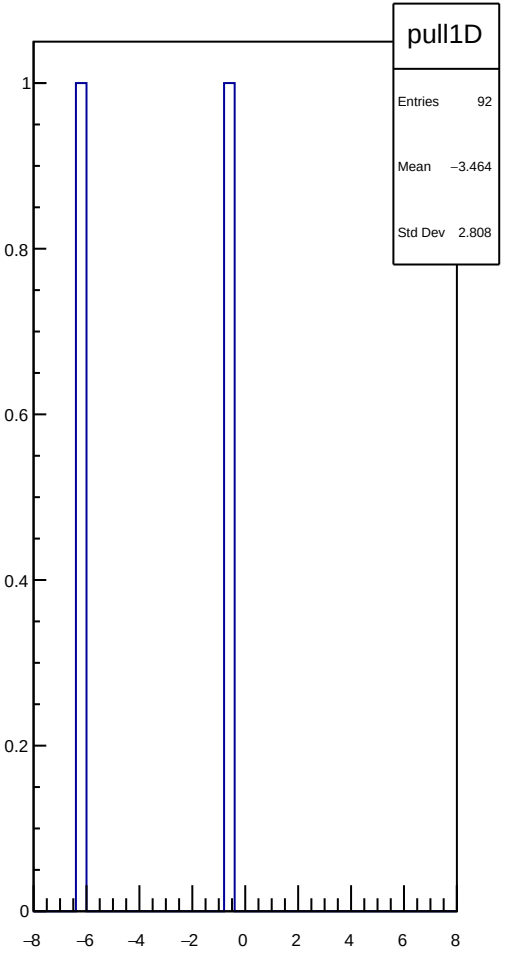

yield_bpm4ecY_rms vs run
χ² / ndf 7.226e+04 / 91
p0 0.01666 ± 1.274e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

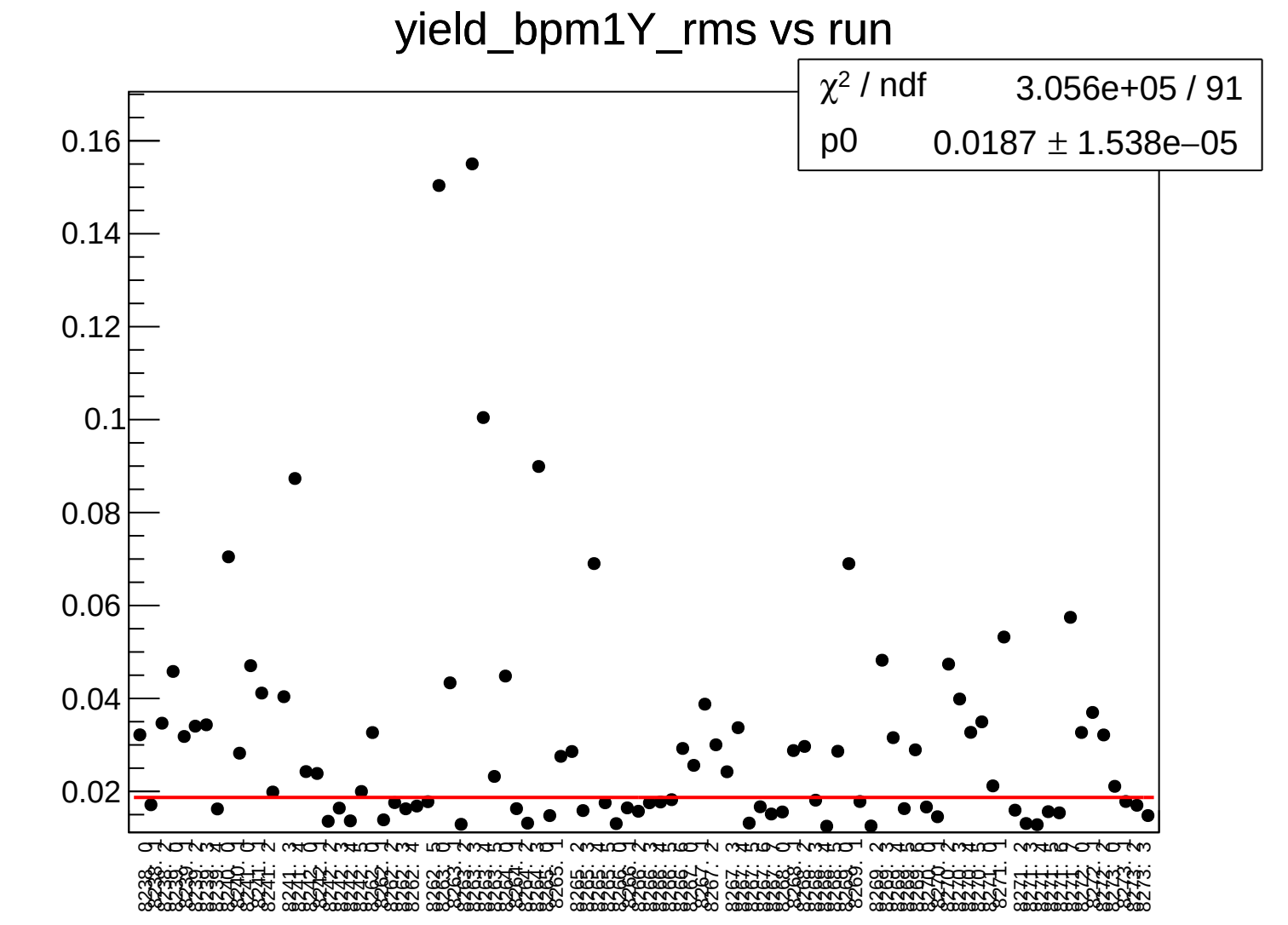

yield_bpm1X_mean vs run
χ² / ndf 2.435e+06 / 91
p0 −0.4287 ± 6.282e−05
−0.2
−0.3
−0.4
−0.5
−0.6
pull
Entries 92
Mean −248.7
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

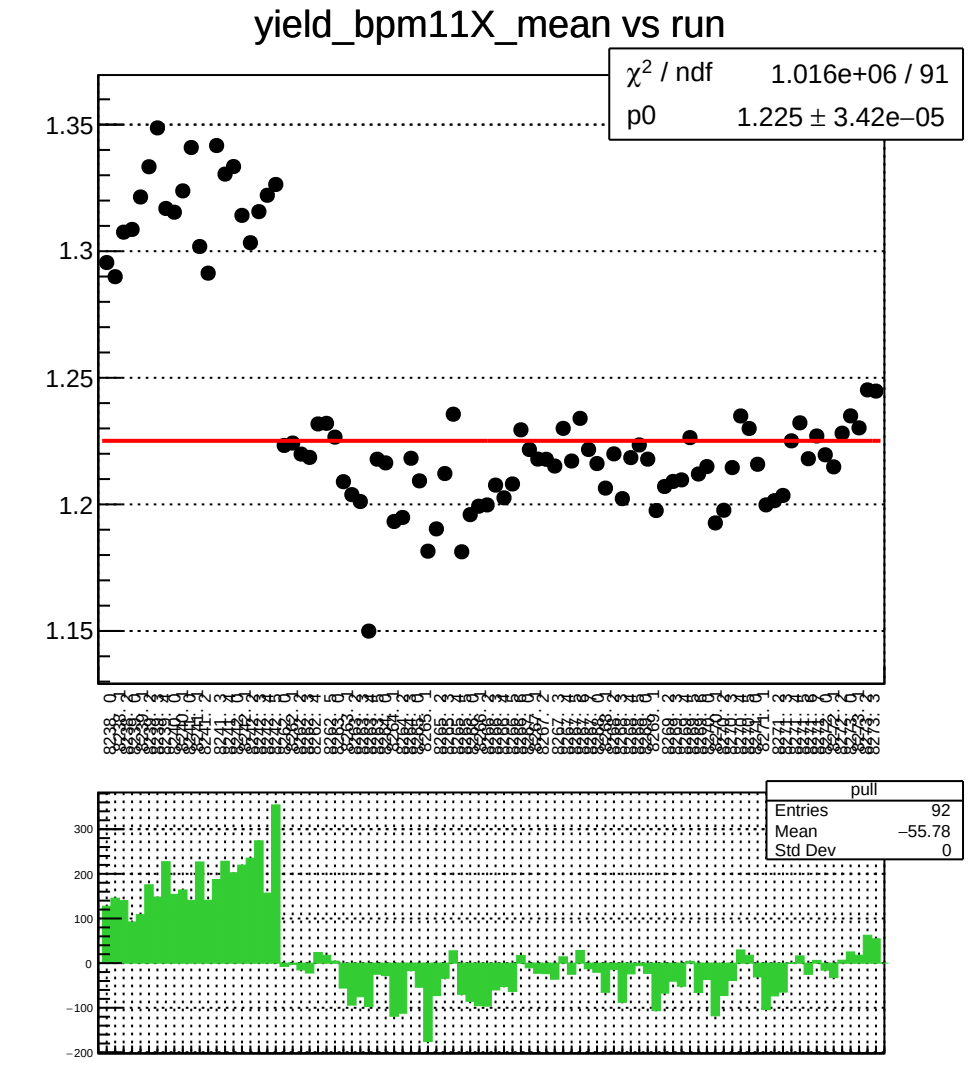

pull1D
Entries 92
Mean 1.069
Std Dev 4.588
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

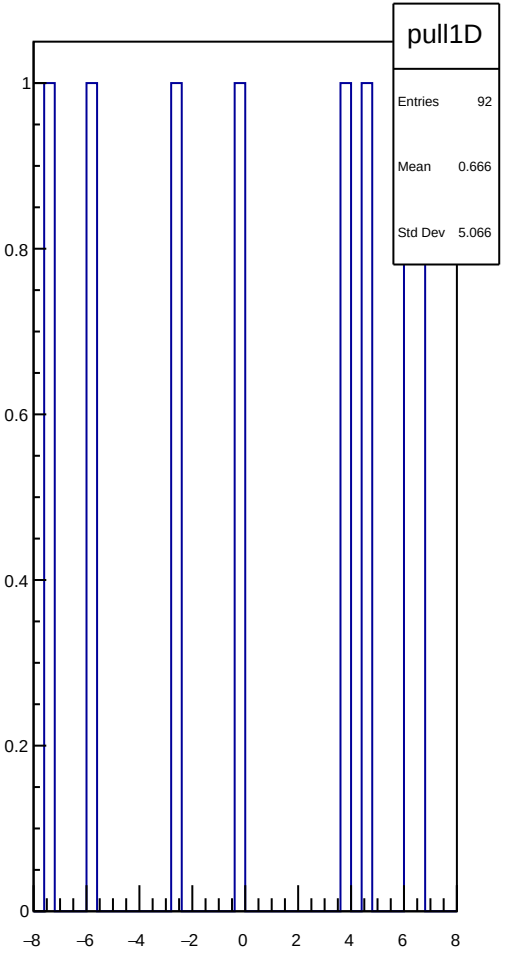

yield_bpm1X_rms vs run
χ² / ndf 1.144e+05 / 91
p0 0.05737 ± 4.442e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

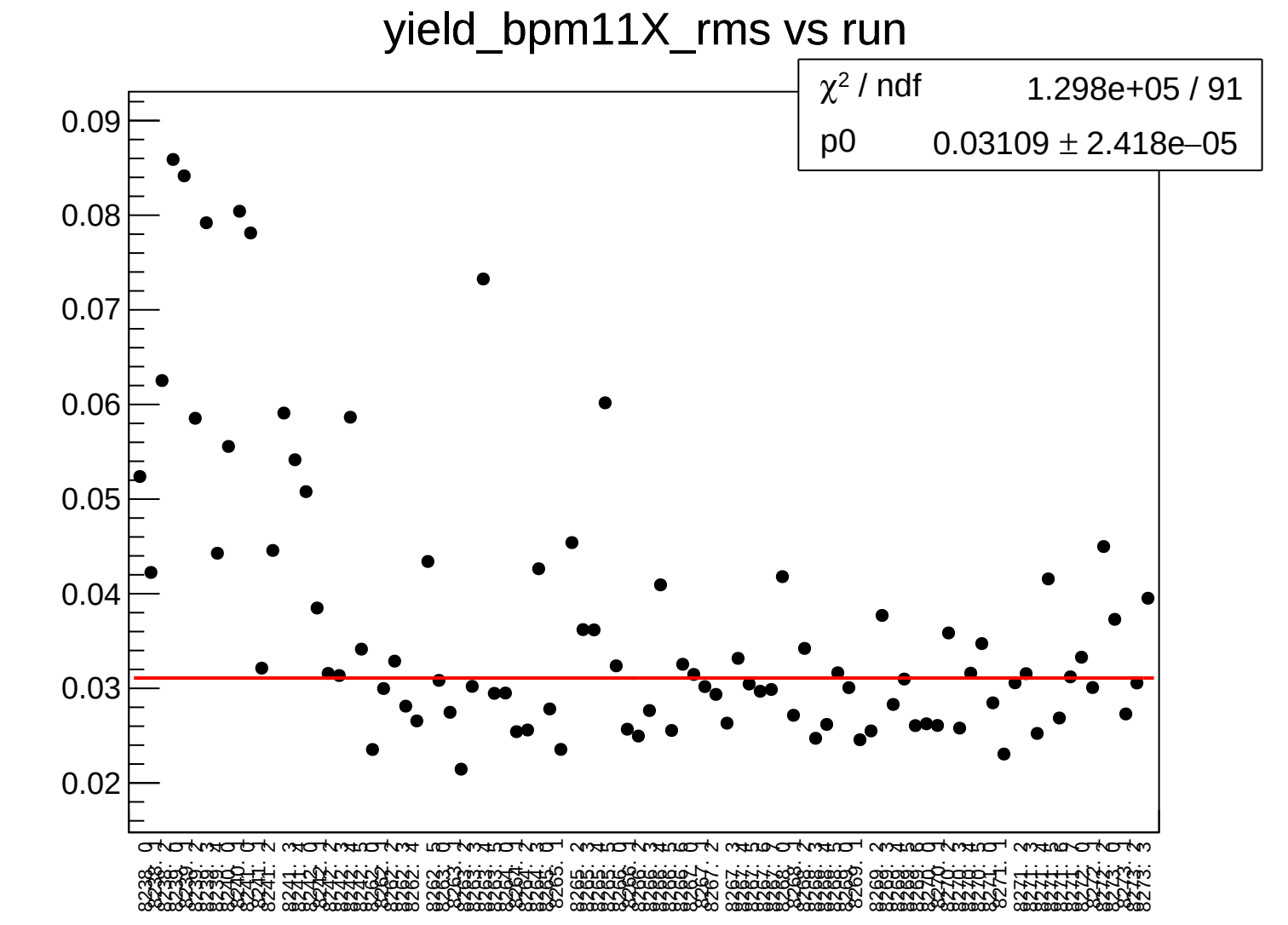

yield_bpm1Y_mean vs run
χ² / ndf 7.31e+07 / 91
p0 2.385 ± 2.176e−05
pull
Entries 92
Mean −168
Std Dev 0

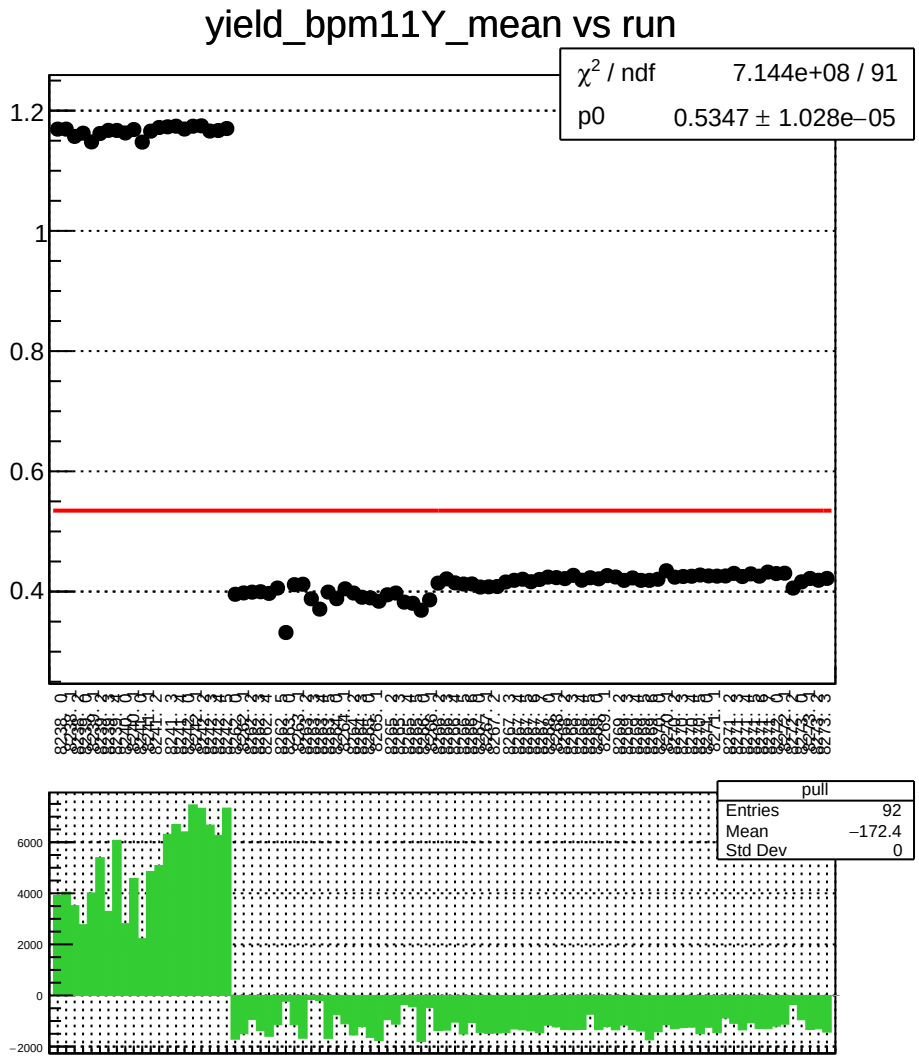

pull1D
Entries 92
Mean −3.464
Std Dev 2.808

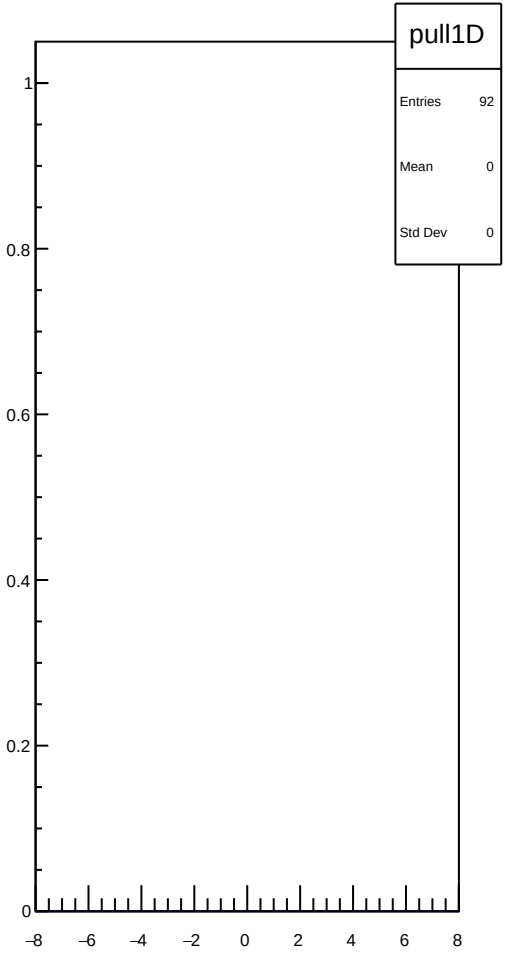

yield_bpm1Y_rms vs run
χ² / ndf 3.056e+05 / 91
p0 0.0187 ± 1.538e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

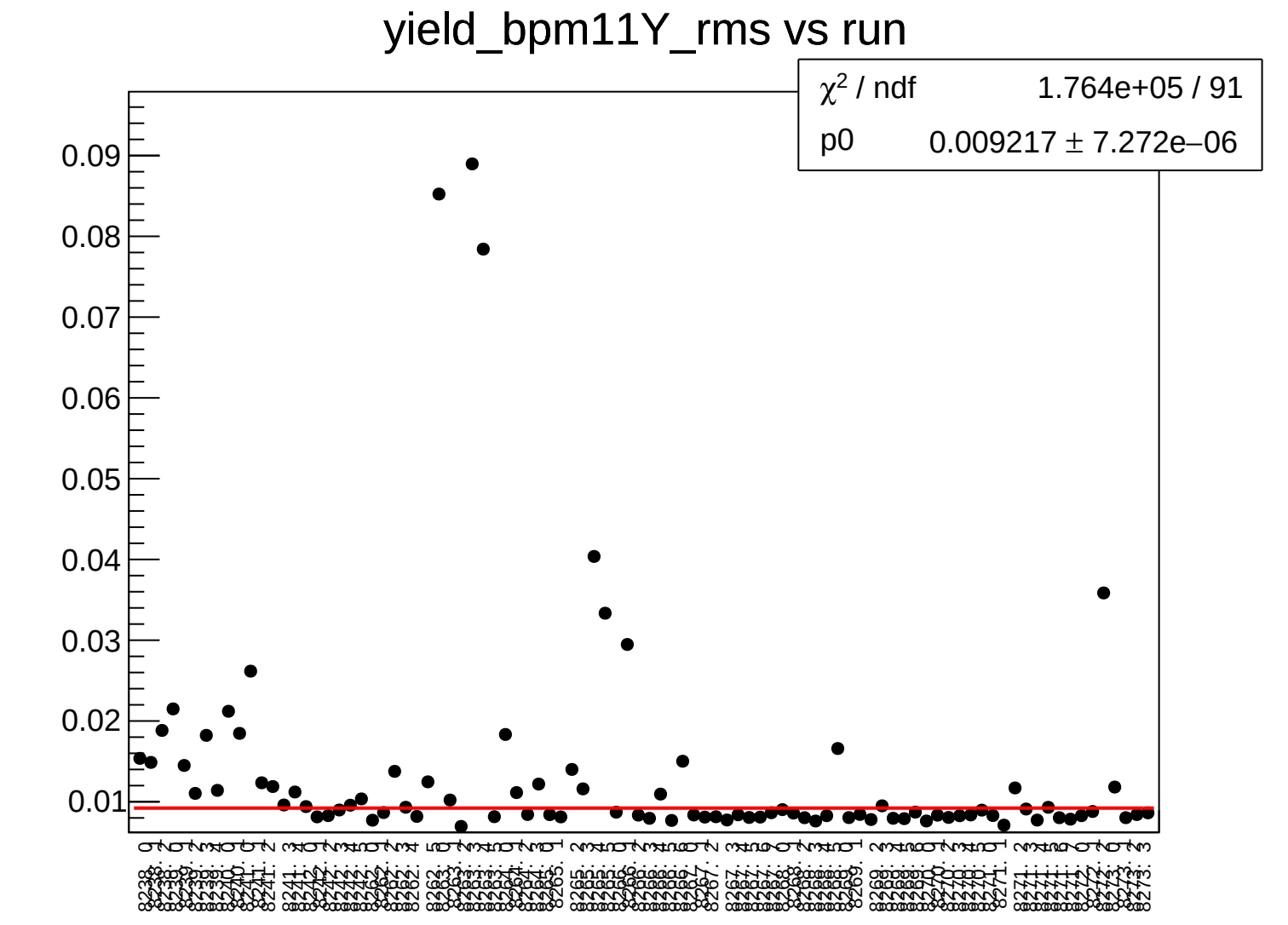

yield_bpm11X_mean vs run
χ² / ndf 1.016e+06 / 91
p0 1.225 ± 3.42e−05
1.35
1.3
1.25
1.2
1.15
pull
Entries 92
Mean −55.78
Std Dev 0
300
200
100
0
−100
−200

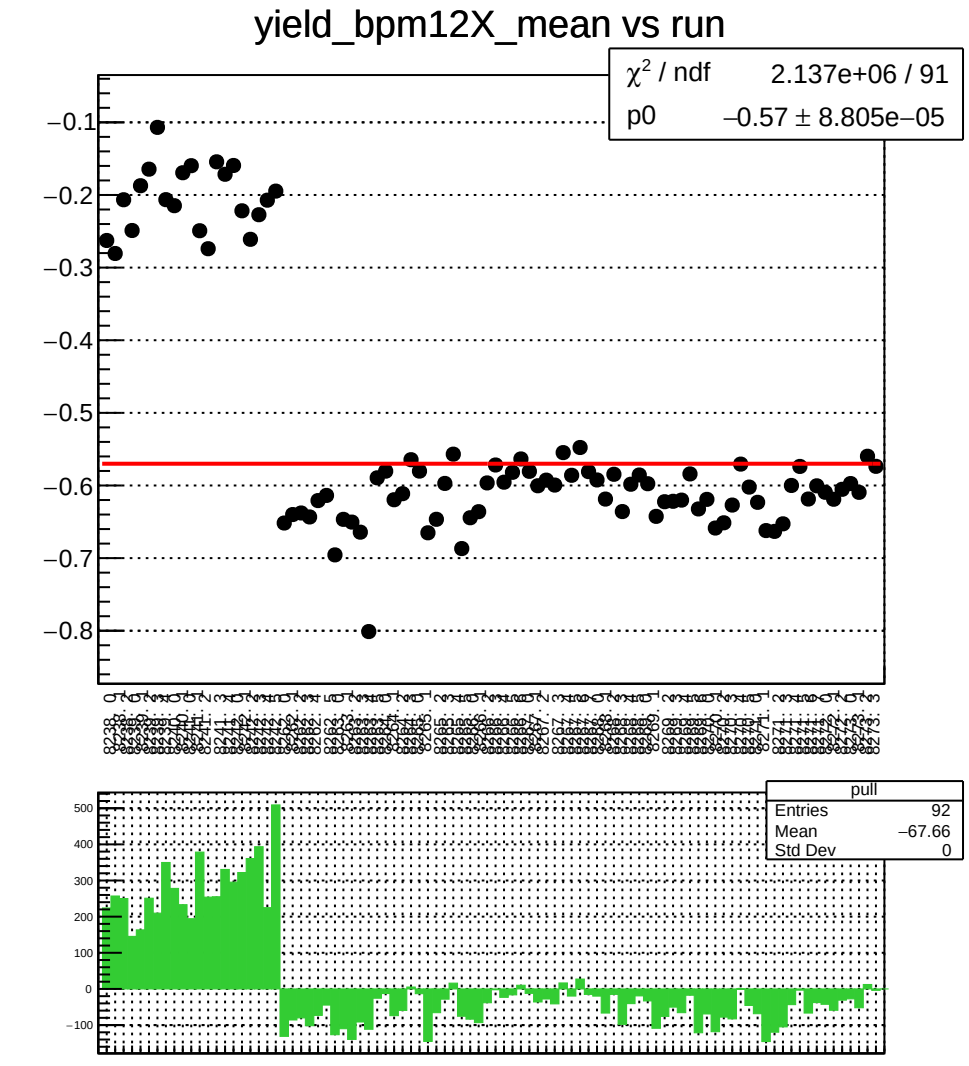

pull1D
Entries 92
Mean 0.666
Std Dev 5.066
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

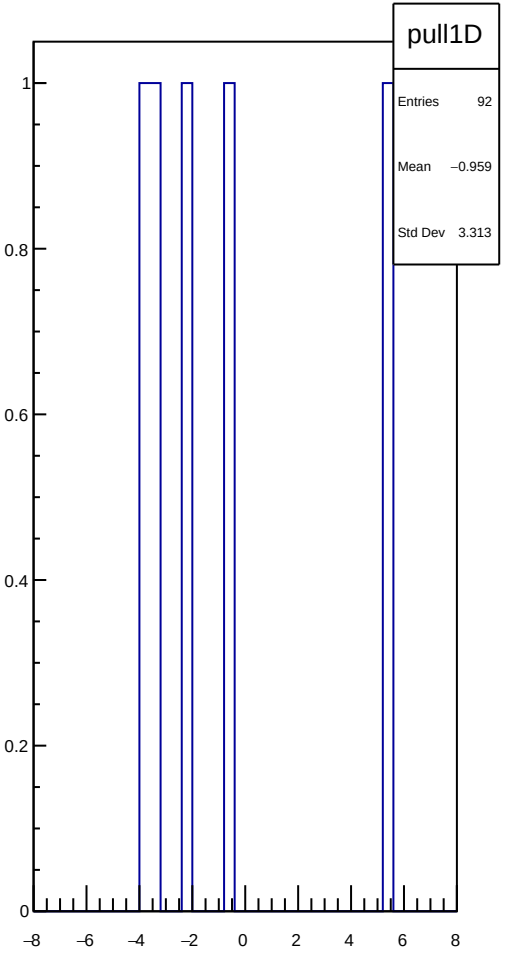

yield_bpm11X_rms vs run
χ² / ndf 1.298e+05 / 91
p0 0.03109 ± 2.418e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

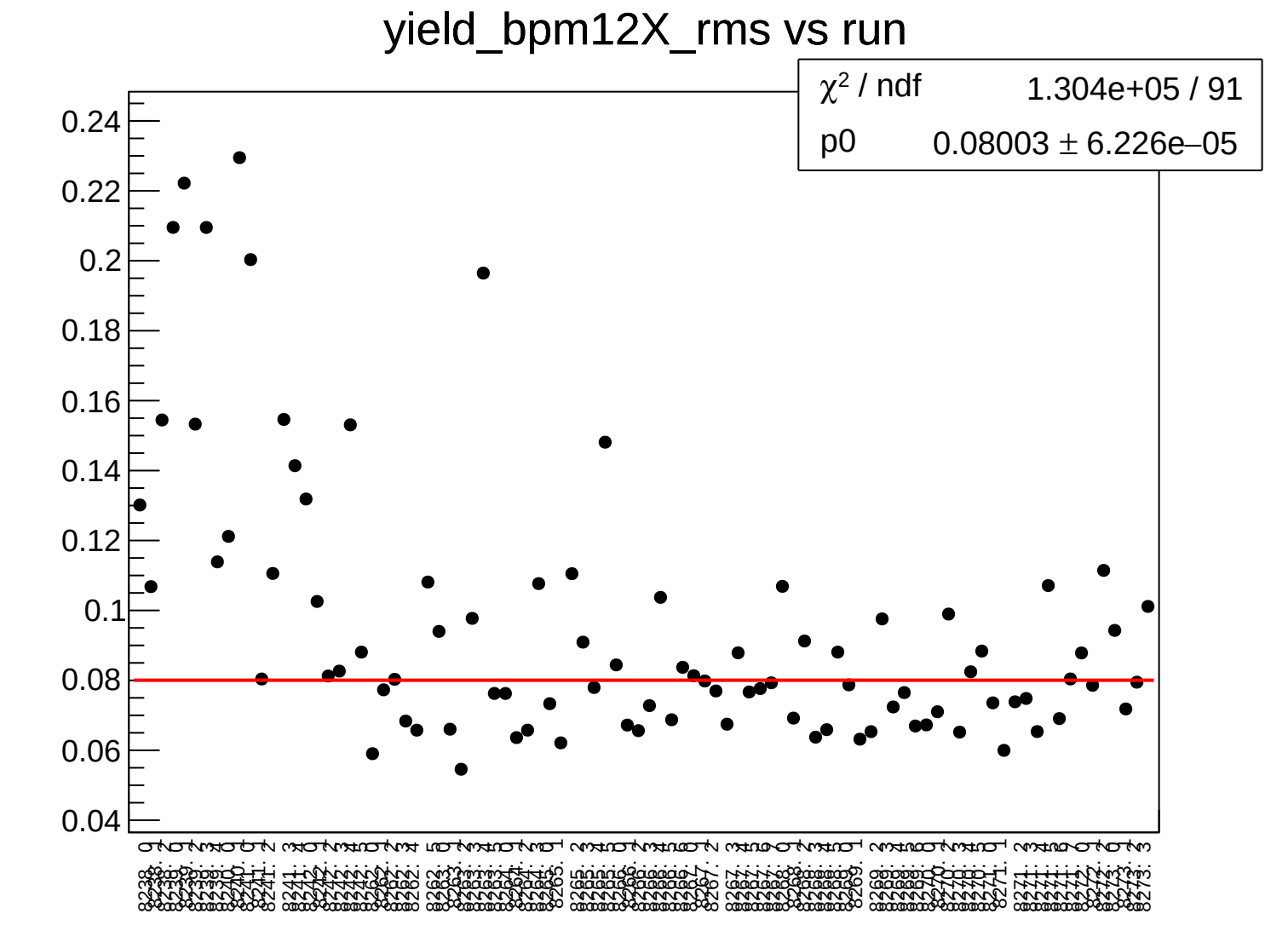

yield_bpm11Y_mean vs run
χ² / ndf 7.144e+08 / 91
p0 0.5347 ± 1.028e−05
1.2
1
0.8
0.6
0.4
pull
Entries 92
Mean −172.4
Std Dev 0
6000
4000
2000
0
−2000

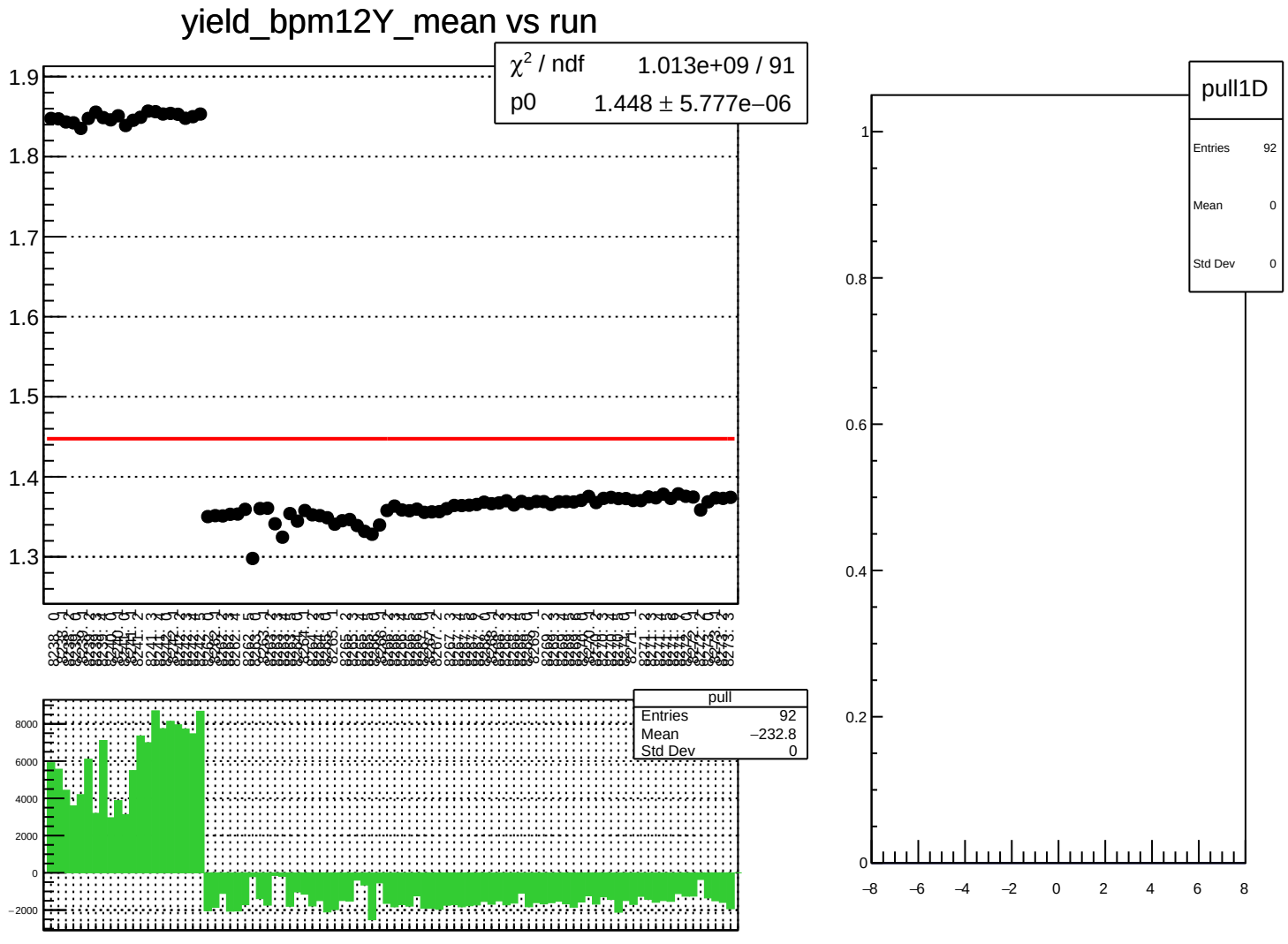

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

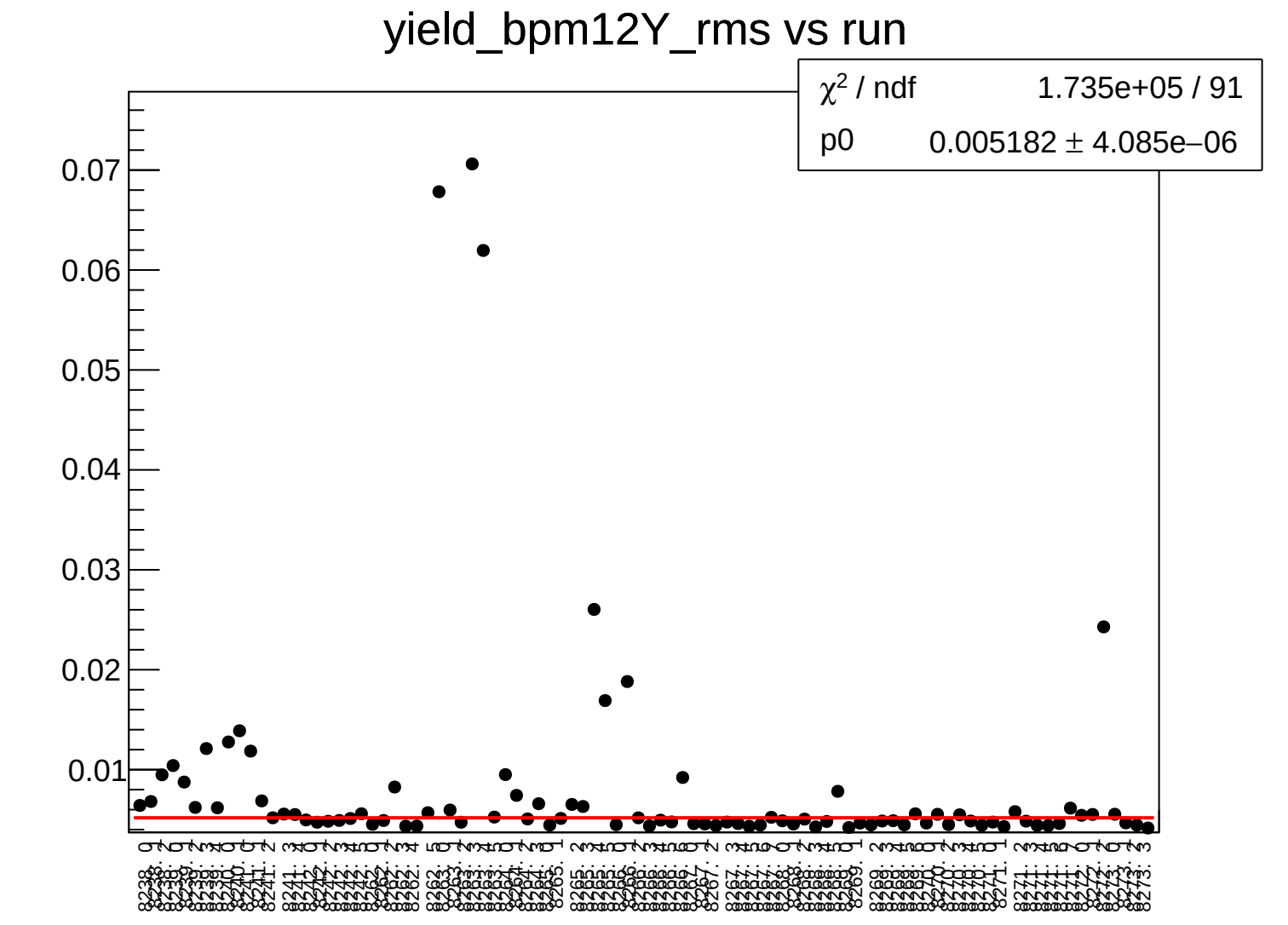

yield_bpm11Y_rms vs run
χ² / ndf 1.764e+05 / 91
p0 0.009217 ± 7.272e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

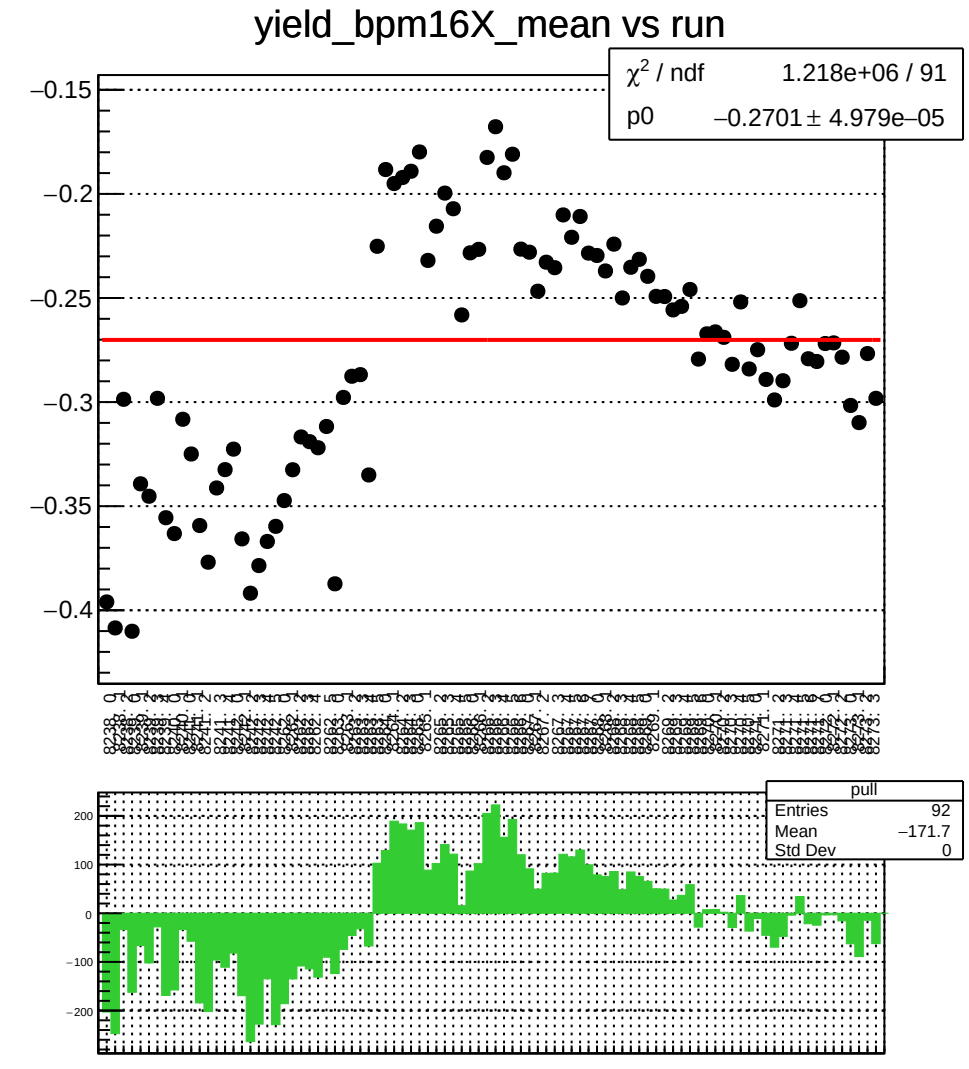

yield_bpm12X_mean vs run
χ² / ndf 2.137e+06 / 91
p0 −0.57 ± 8.805e−05
pull
Entries 92
Mean −67.66
Std Dev 0

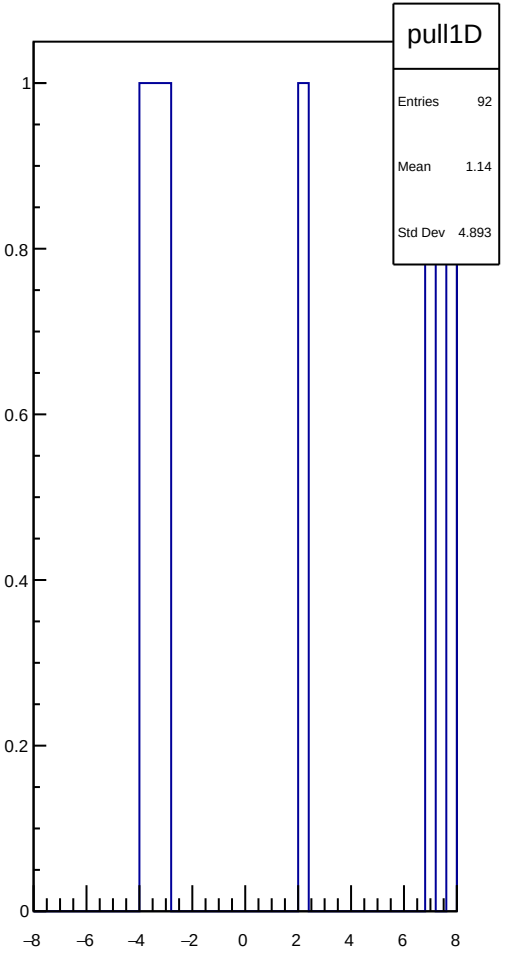

pull1D
Entries 92
Mean −0.959
Std Dev 3.313


yield_bpm12X_rms vs run
χ² / ndf 1.304e+05 / 91
p0 0.08003 ± 6.226e–05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

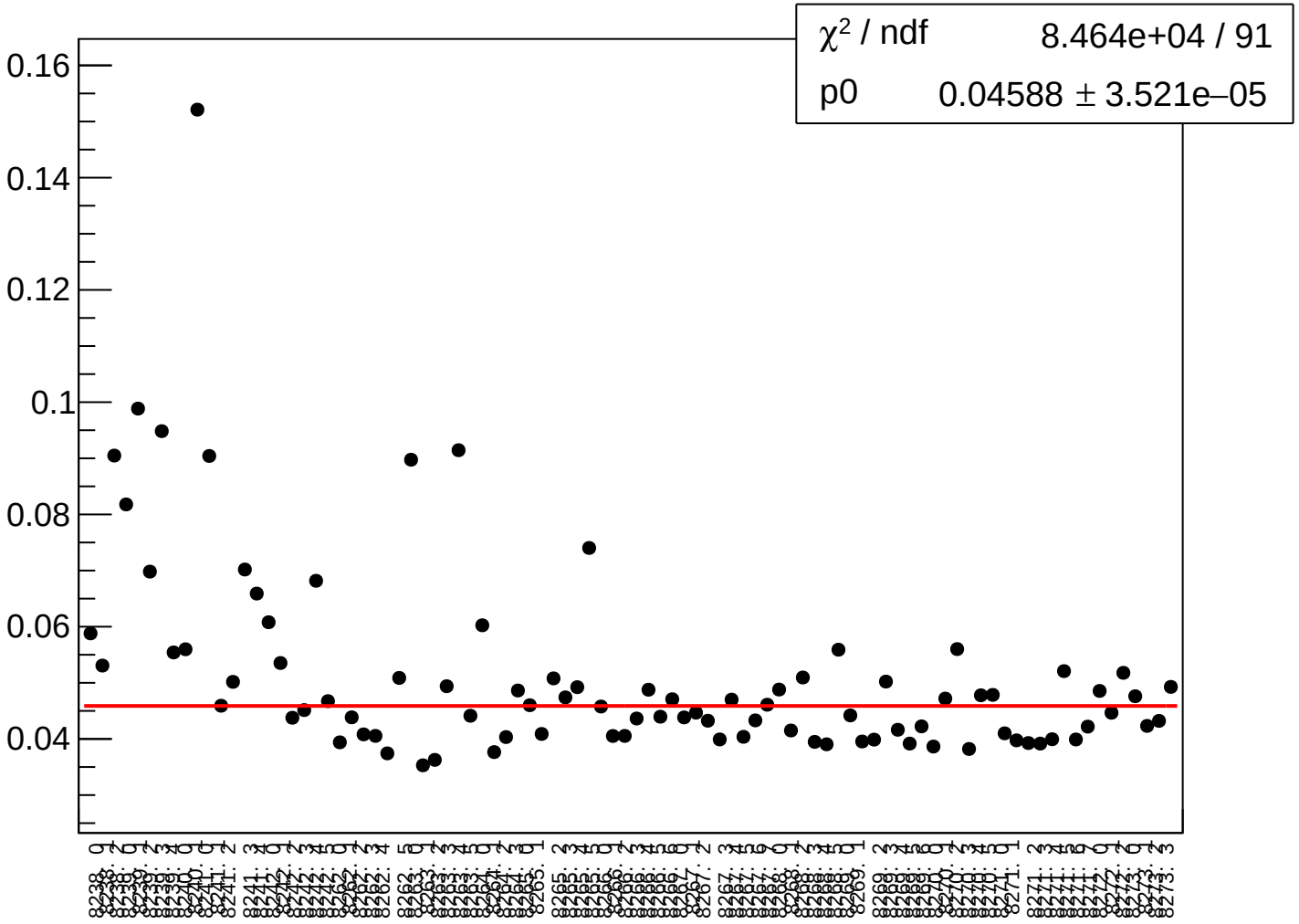

yield_bpm12Y_mean vs run
χ² / ndf 1.013e+09 / 91
p0 1.448 ± 5.777e−06
pull
Entries 92
Mean −232.8
Std Dev 0
pull1D
Entries 92
Mean 0
Std Dev 0

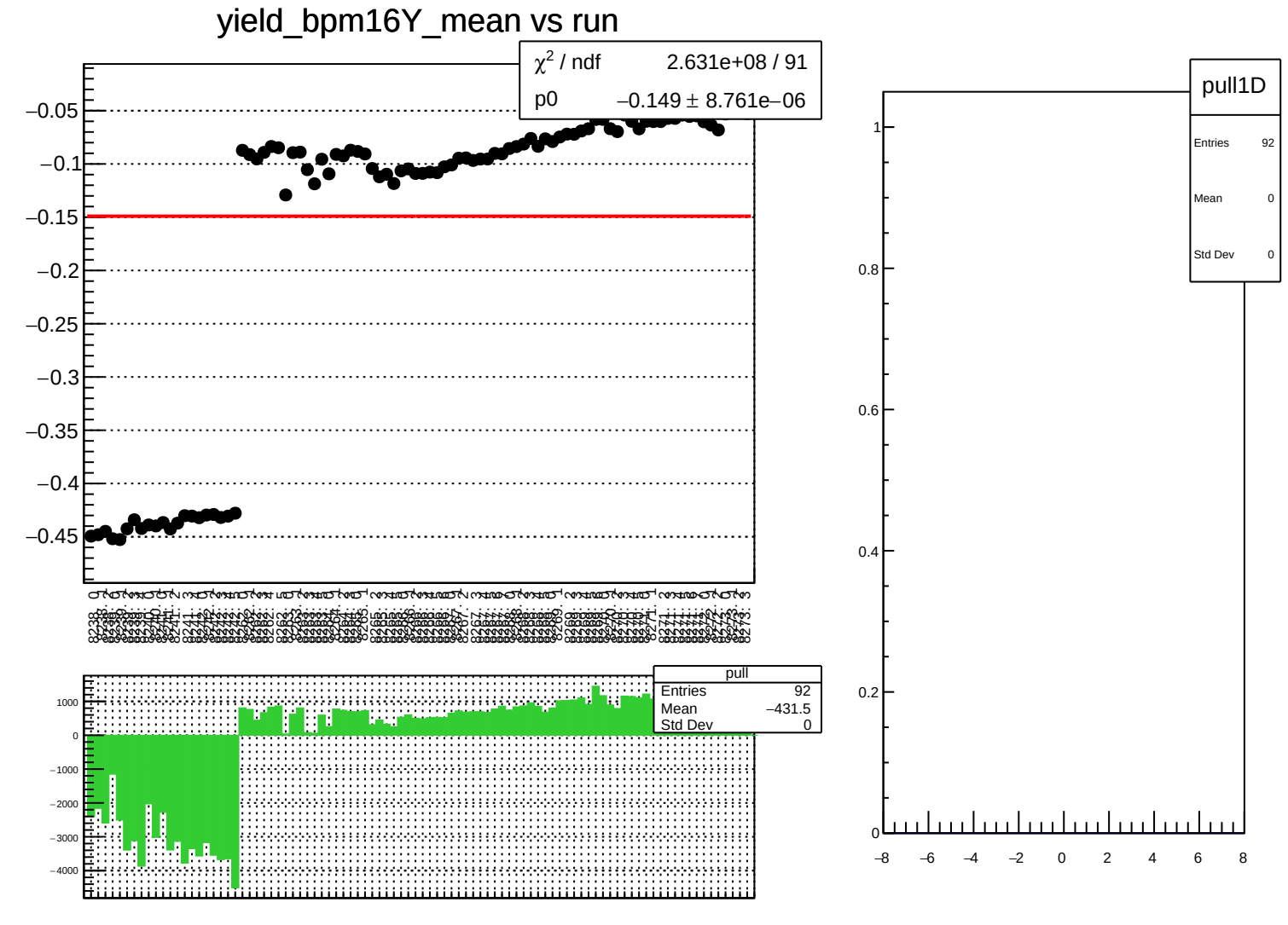

yield_bpm12Y_rms vs run
χ² / ndf 1.735e+05 / 91
p0 0.005182 ± 4.085e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

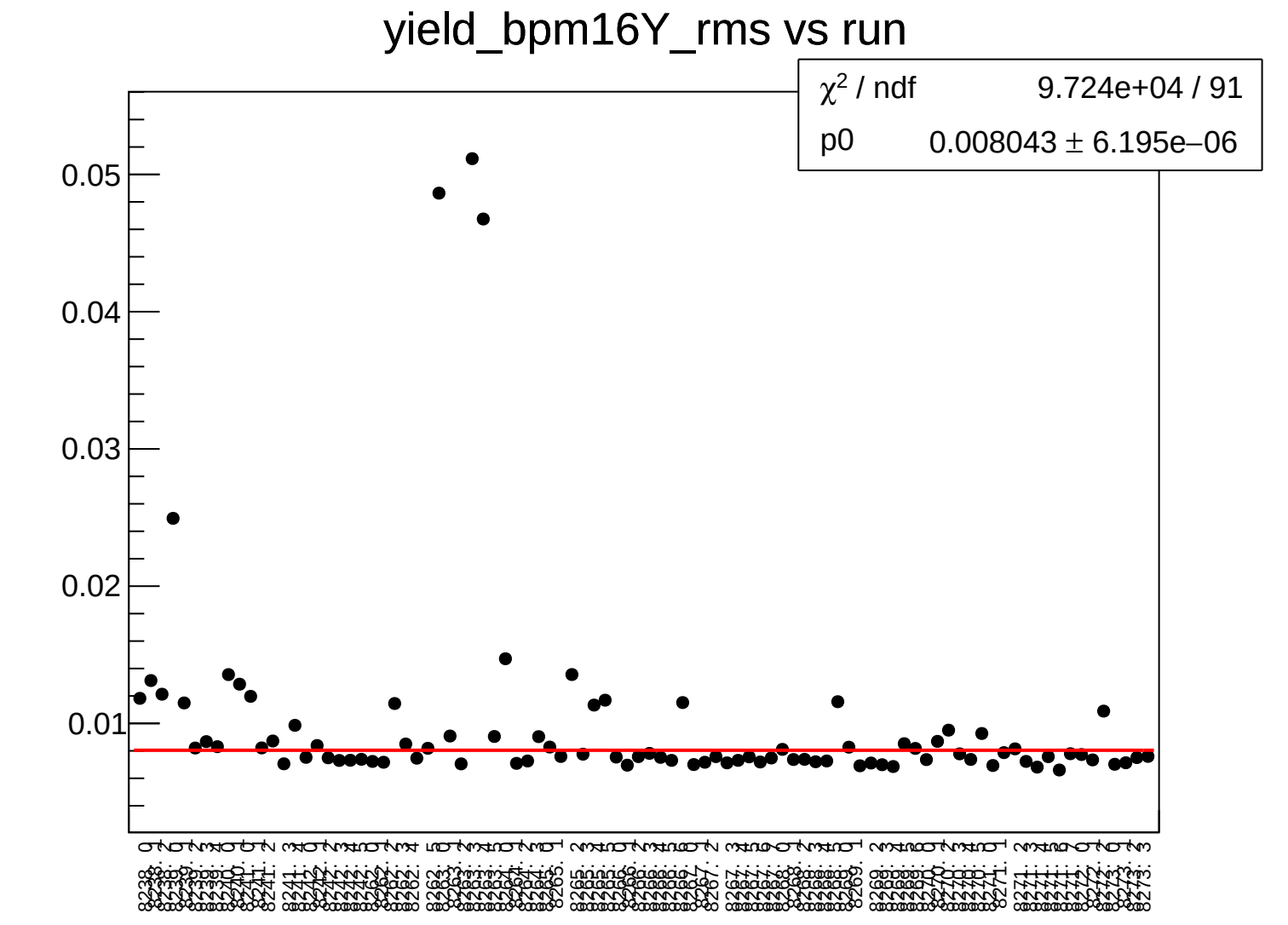

yield_bpm16X_mean vs run
χ² / ndf 1.218e+06 / 91
p0 −0.2701 ± 4.979e−05
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
pull
Entries 92
Mean −171.7
Std Dev 0
200
100
0
−100
−200

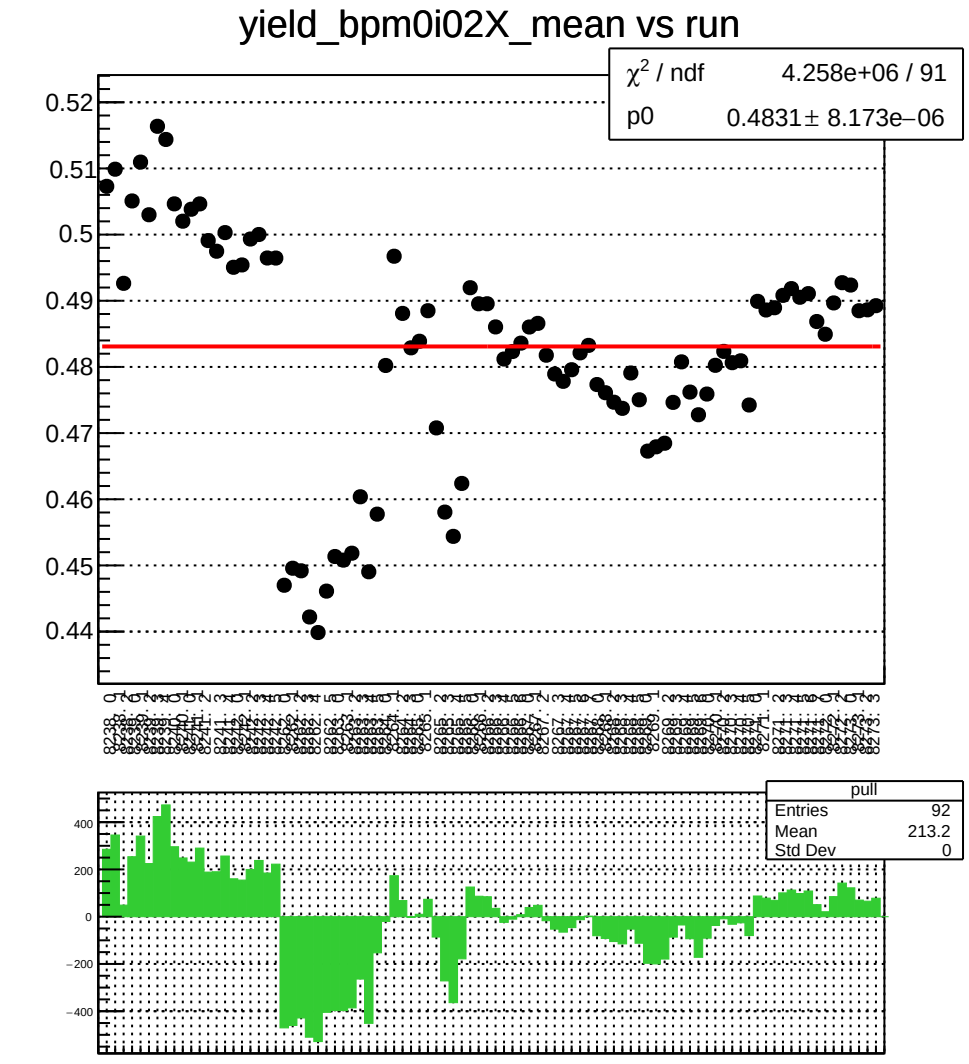

pull1D
Entries 92
Mean 1.14
Std Dev 4.893
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

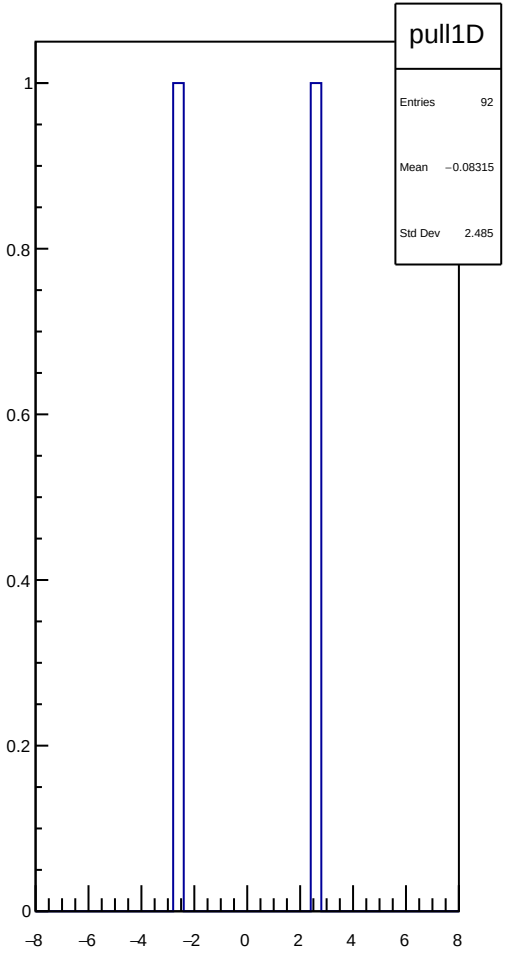
# yield_bpm16X_rms vs run



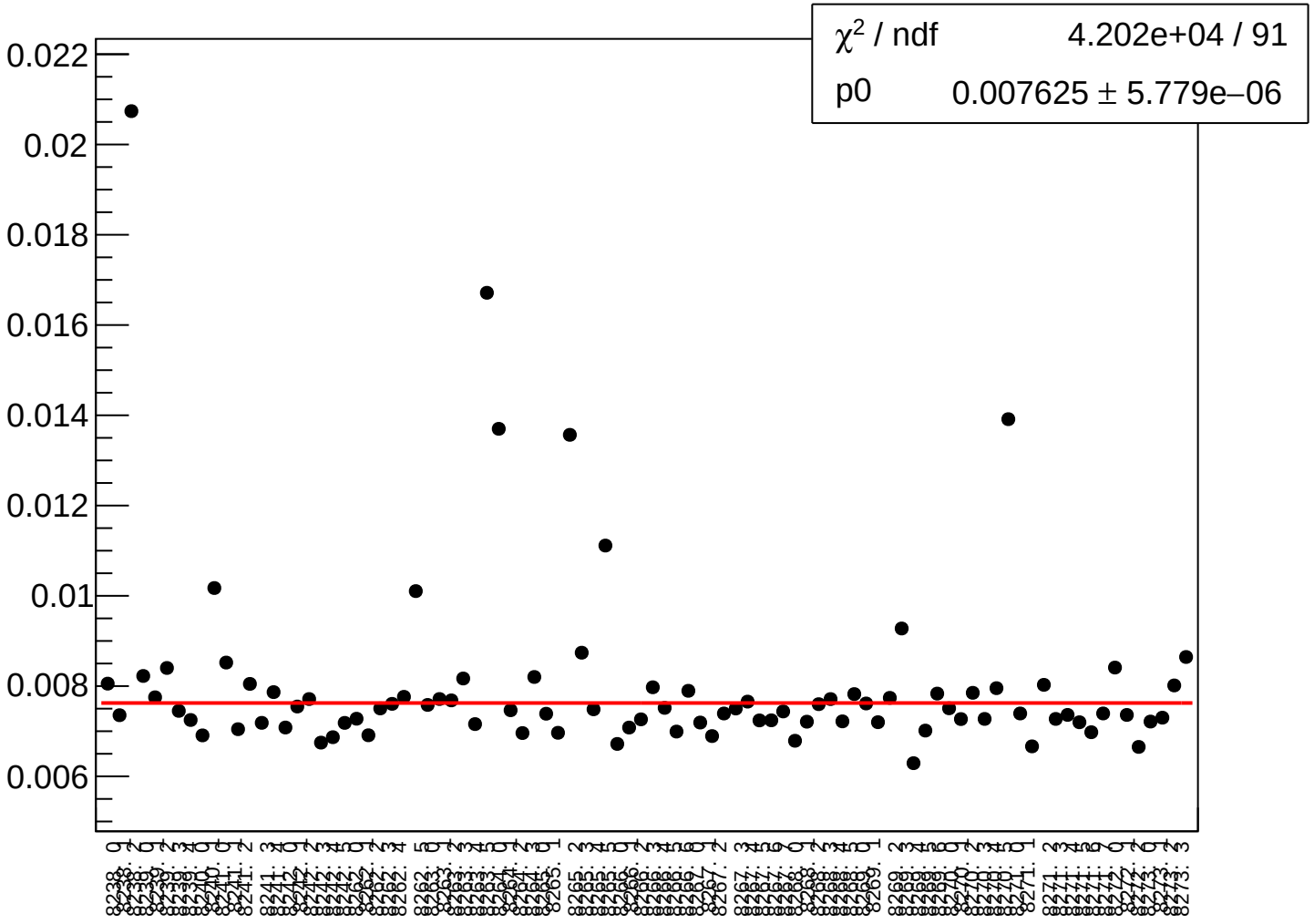

yield_bpm16Y_mean vs run
χ² / ndf 2.631e+08 / 91
p0 −0.149 ± 8.761e−06
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
−0.45
pull
Entries 92
Mean −431.5
Std Dev 0
1000
0
−1000
−2000
−3000
−4000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

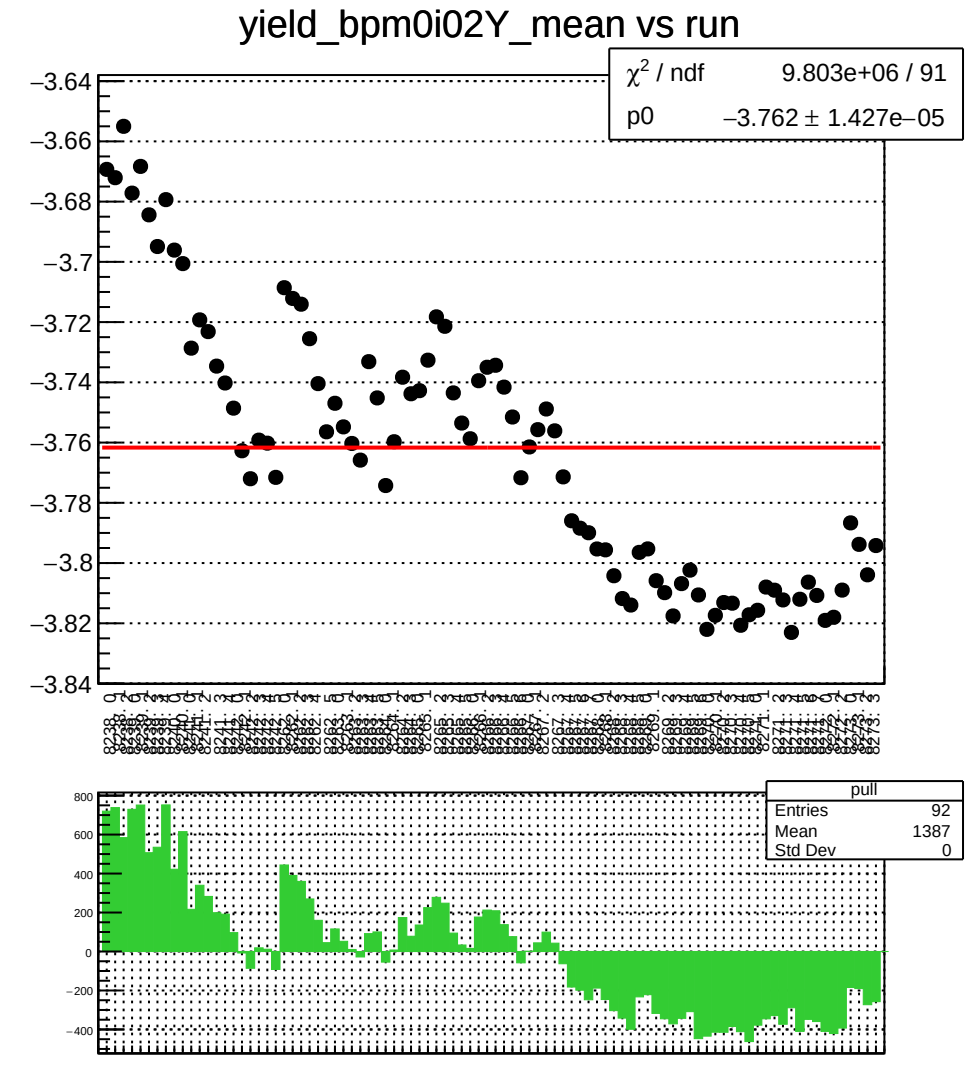

yield_bpm16Y_rms vs run
χ² / ndf 9.724e+04 / 91
p0 0.008043 ± 6.195e−06
0.05
0.04
0.03
0.02
0.01

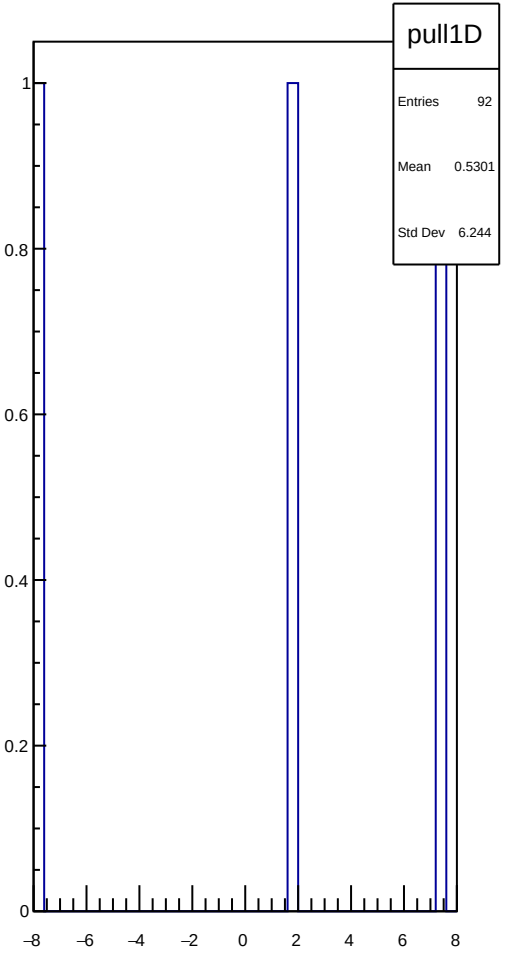

yield_bpm0i02X_mean vs run
χ² / ndf 4.258e+06 / 91
p0 0.4831 ± 8.173e−06
0.52
0.51
0.5
0.49
0.48
0.47
0.46
0.45
0.44
pull
Entries 92
Mean 213.2
Std Dev 0
400
200
0
−200
−400

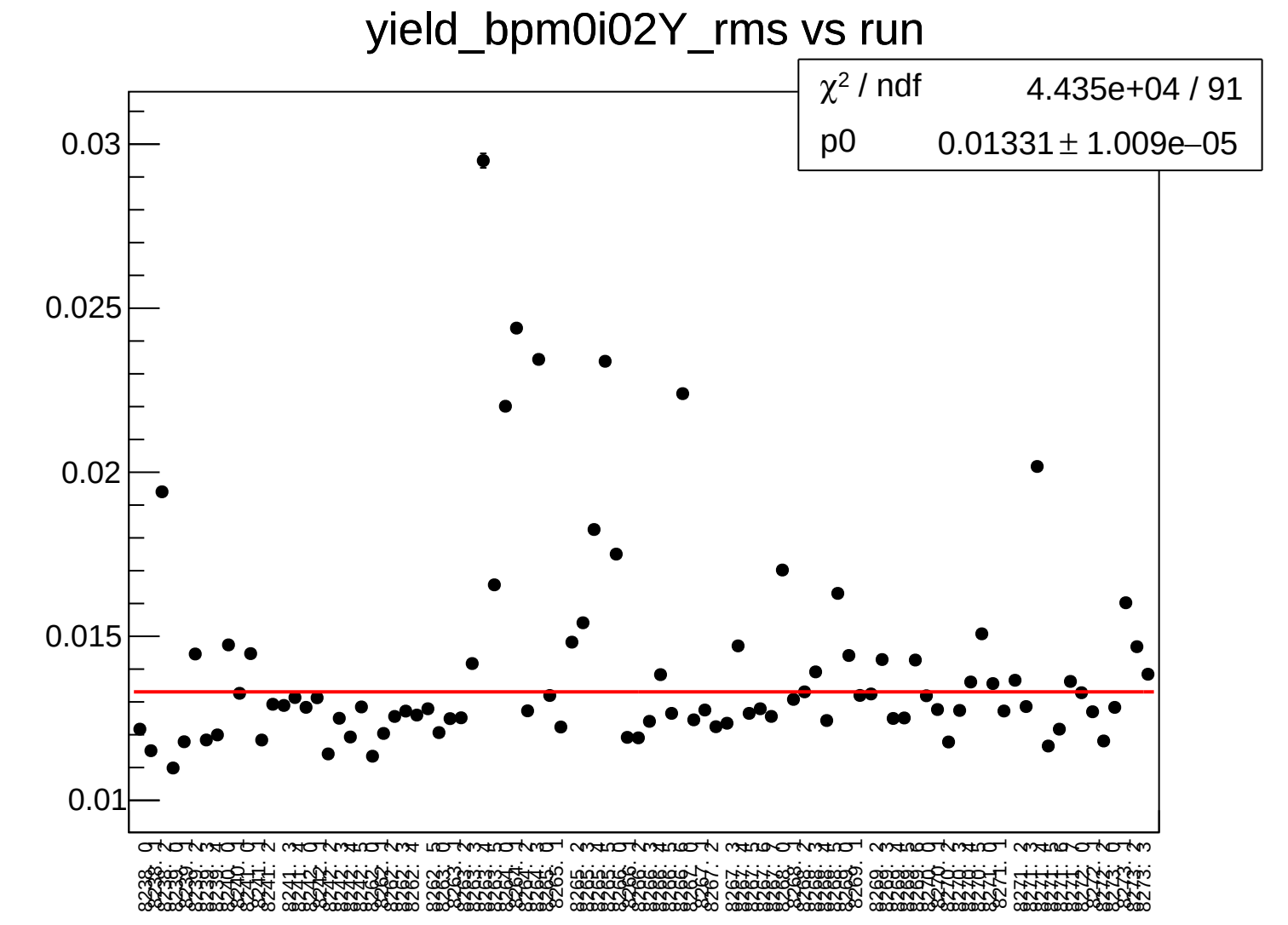

pull1D
Entries 92
Mean −0.08315
Std Dev 2.485
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

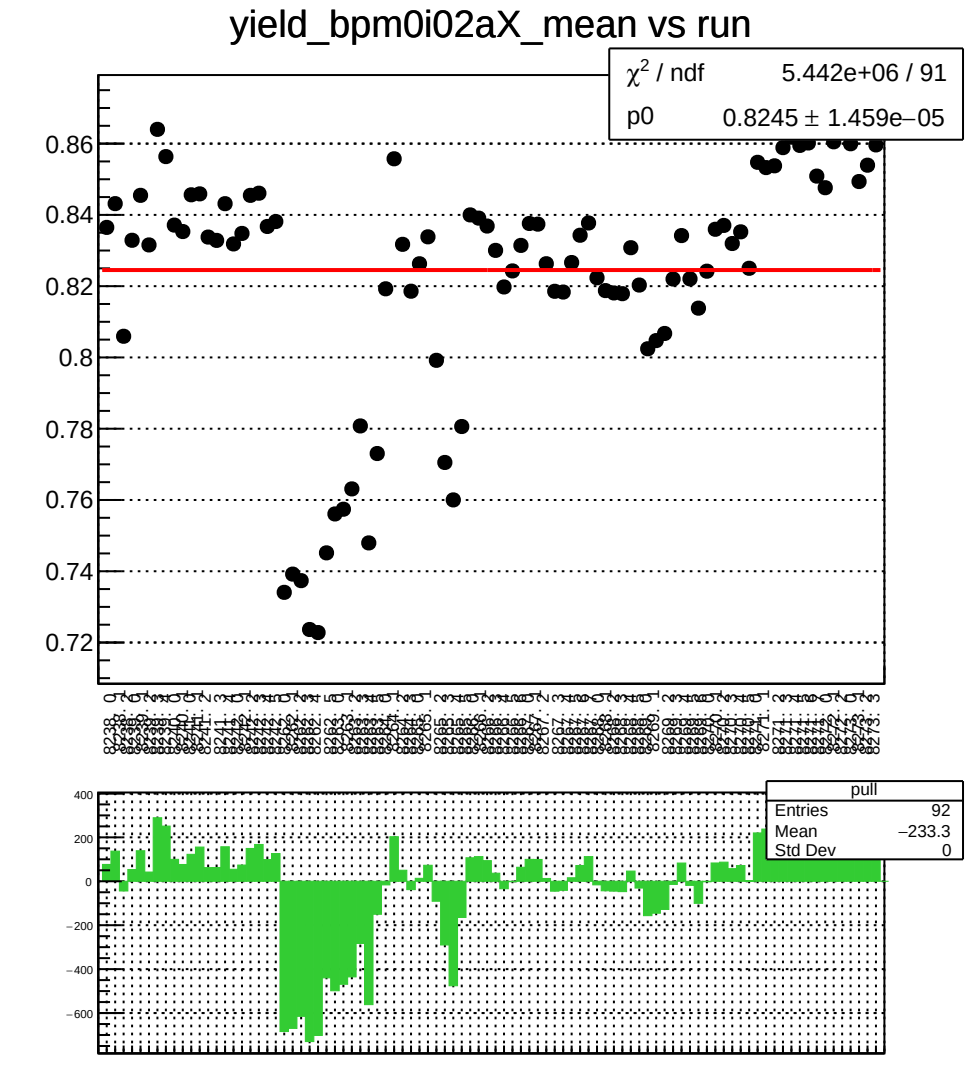
# yield_bpm0i02X_rms vs run

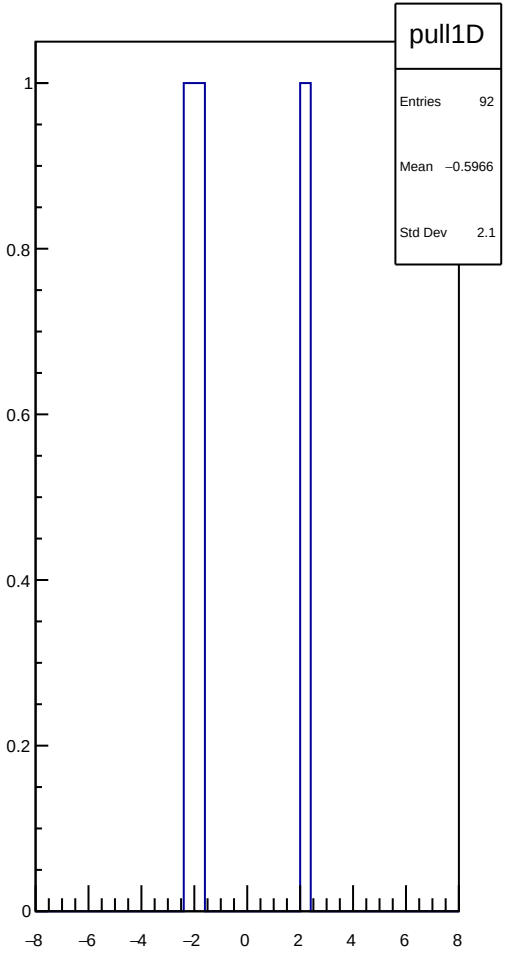


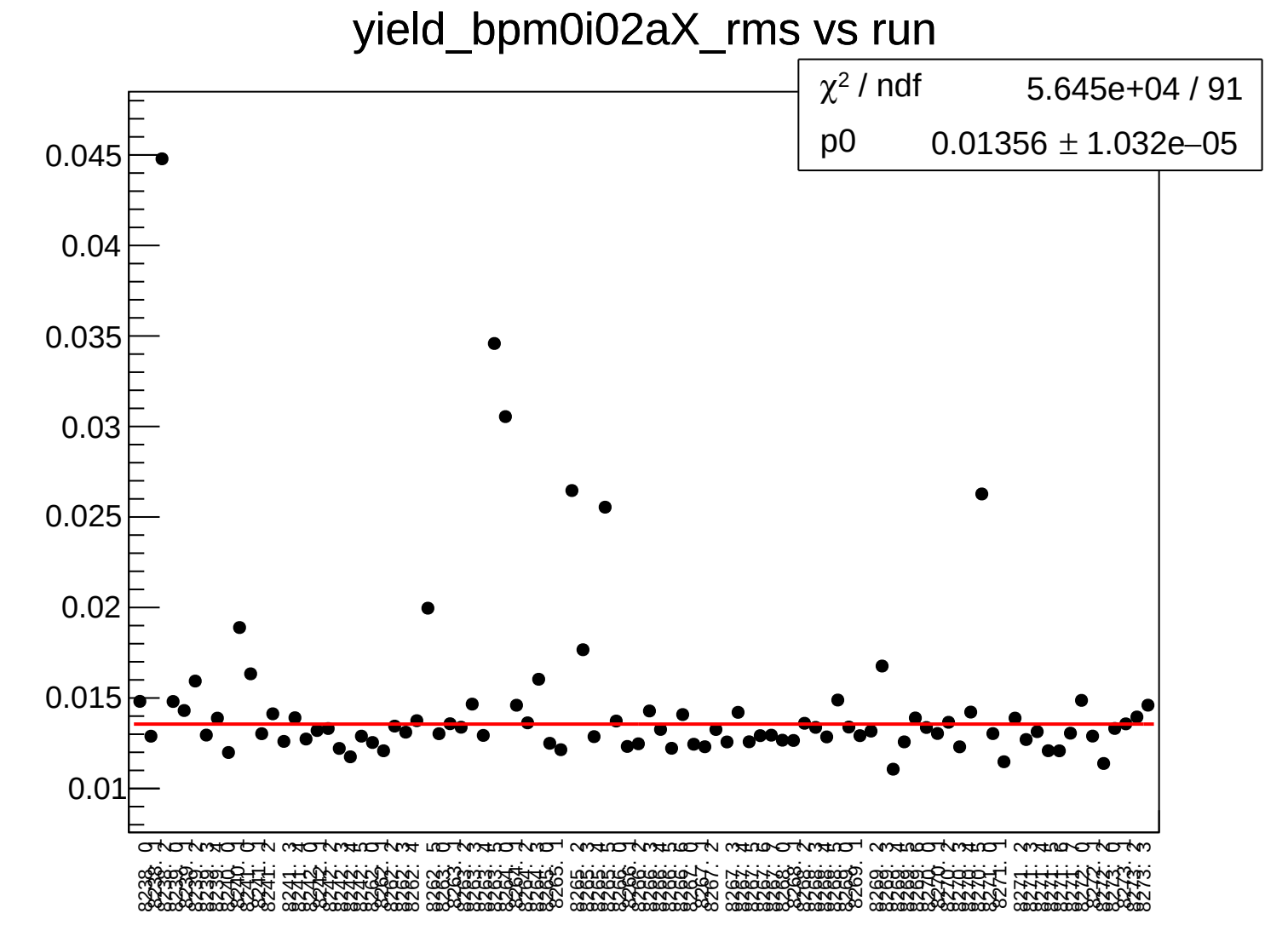

yield_bpm0i02Y_mean vs run
χ² / ndf 9.803e+06 / 91
p0 −3.762 ± 1.427e−05
−3.64
−3.66
−3.68
−3.7
−3.72
−3.74
−3.76
−3.78
−3.8
−3.82
−3.84
pull
Entries 92
Mean 1387
Std Dev 0
800
600
400
200
0
−200
−400

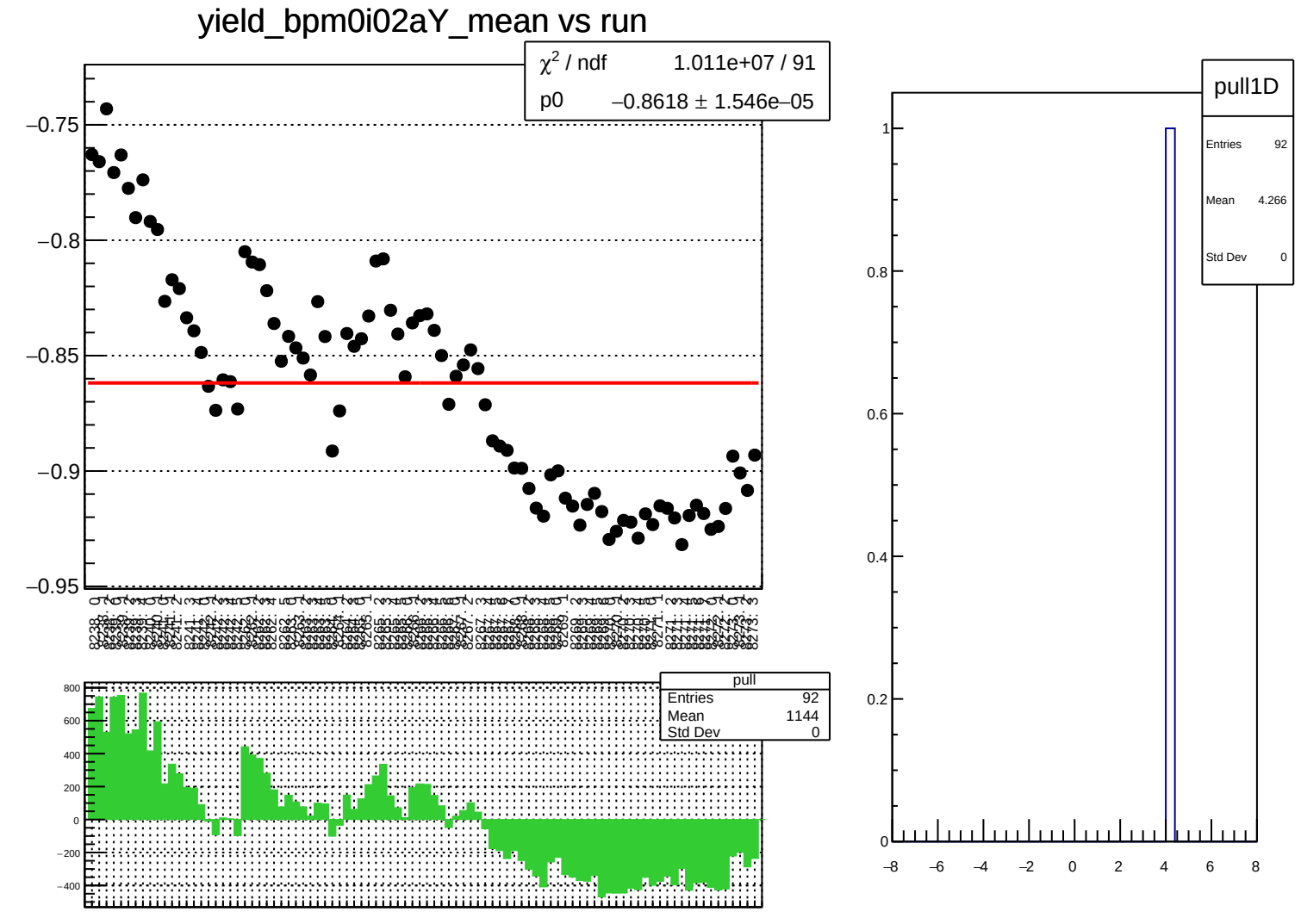

pull1D
Entries 92
Mean 0.5301
Std Dev 6.244
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

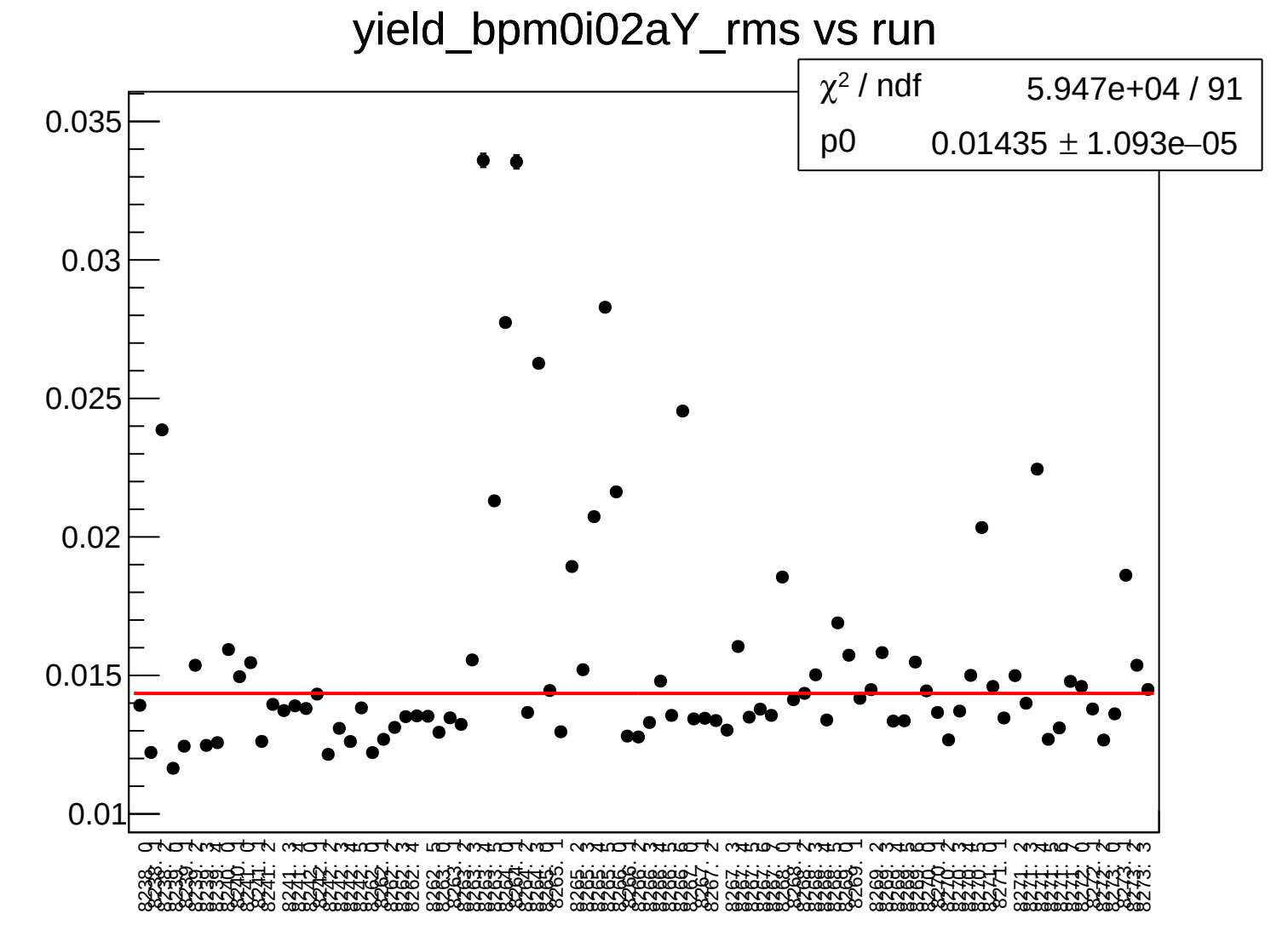

yield_bpm0i02Y_rms vs run
χ² / ndf 4.435e+04 / 91
p0 0.01331 ± 1.009e–05
0.03
0.025
0.02
0.015
0.01

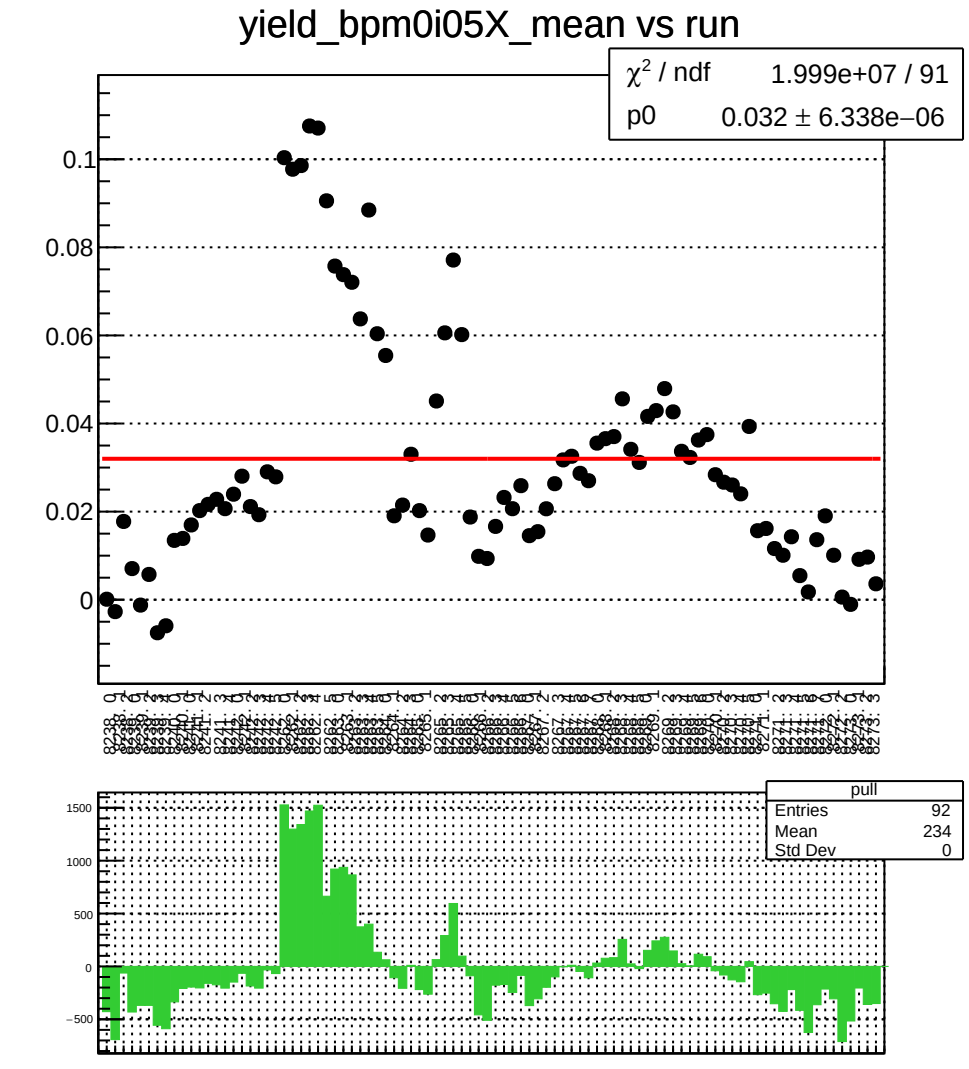

yield_bpm0i02aX_mean vs run
χ² / ndf 5.442e+06 / 91
p0 0.8245 ± 1.459e−05
0.86
0.84
0.82
0.8
0.78
0.76
0.74
0.72
pull
Entries 92
Mean −233.3
Std Dev 0
400
200
0
−200
−400
−600

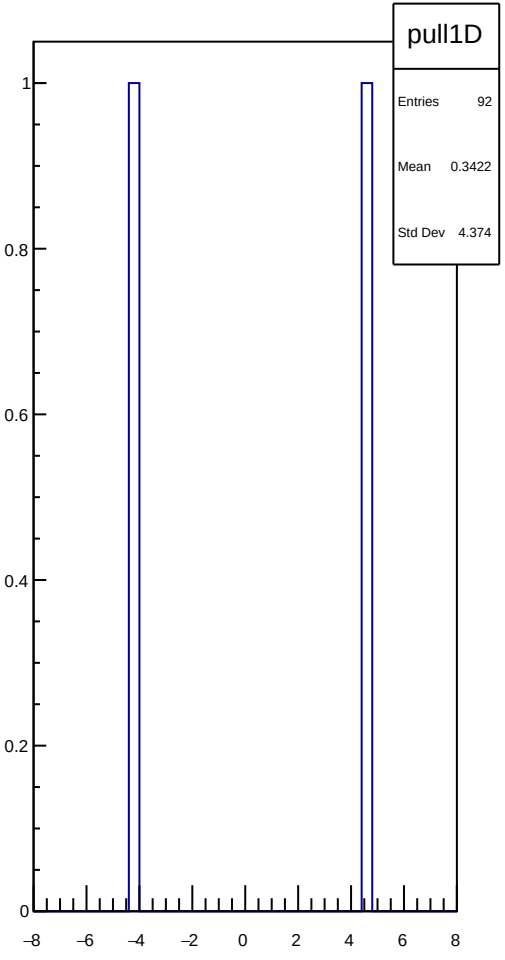

pull1D
Entries 92
Mean −0.5966
Std Dev 2.1
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

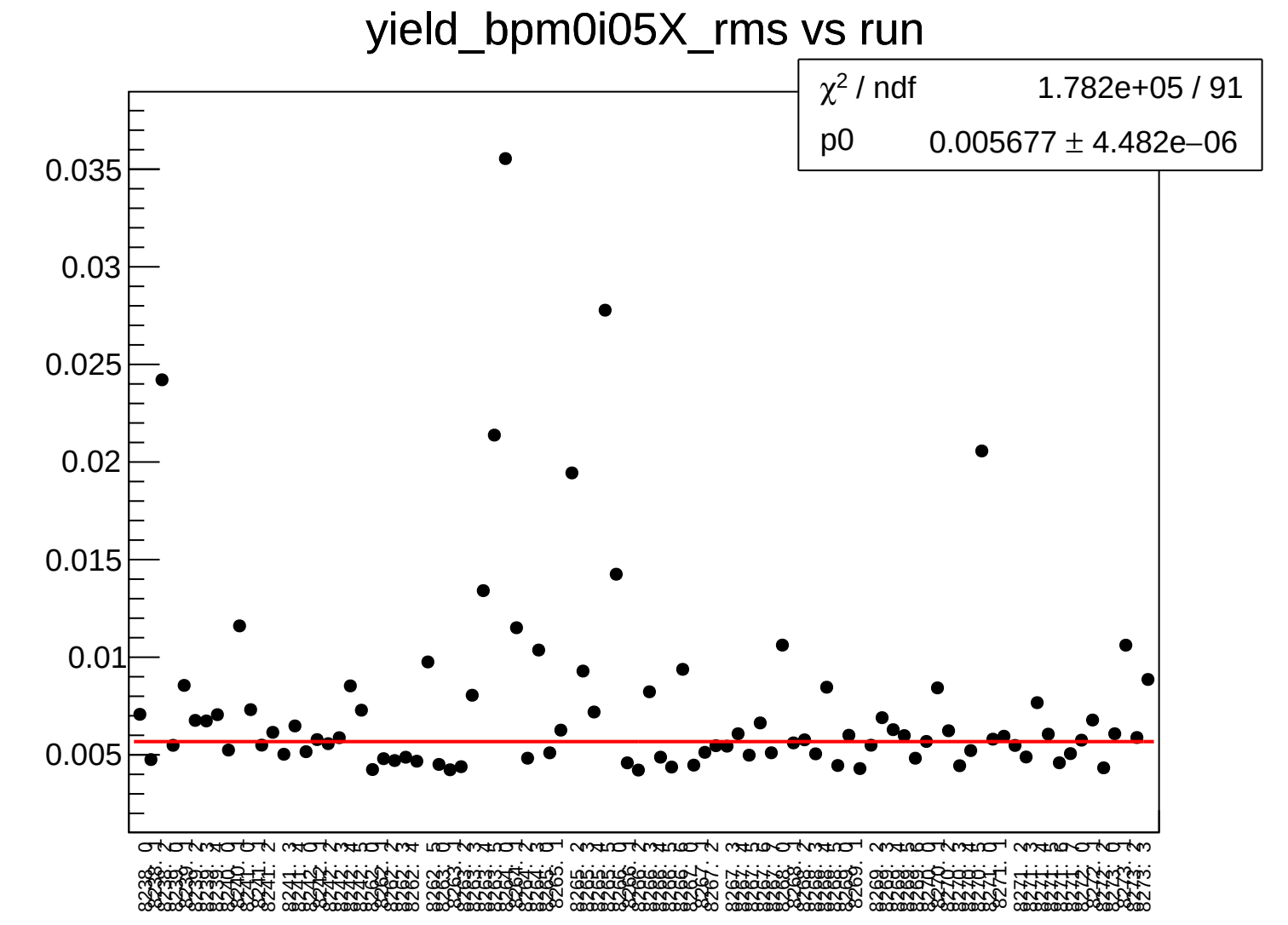

yield_bpm0i02aX_rms vs run
χ² / ndf 5.645e+04 / 91
p0 0.01356 ± 1.032e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

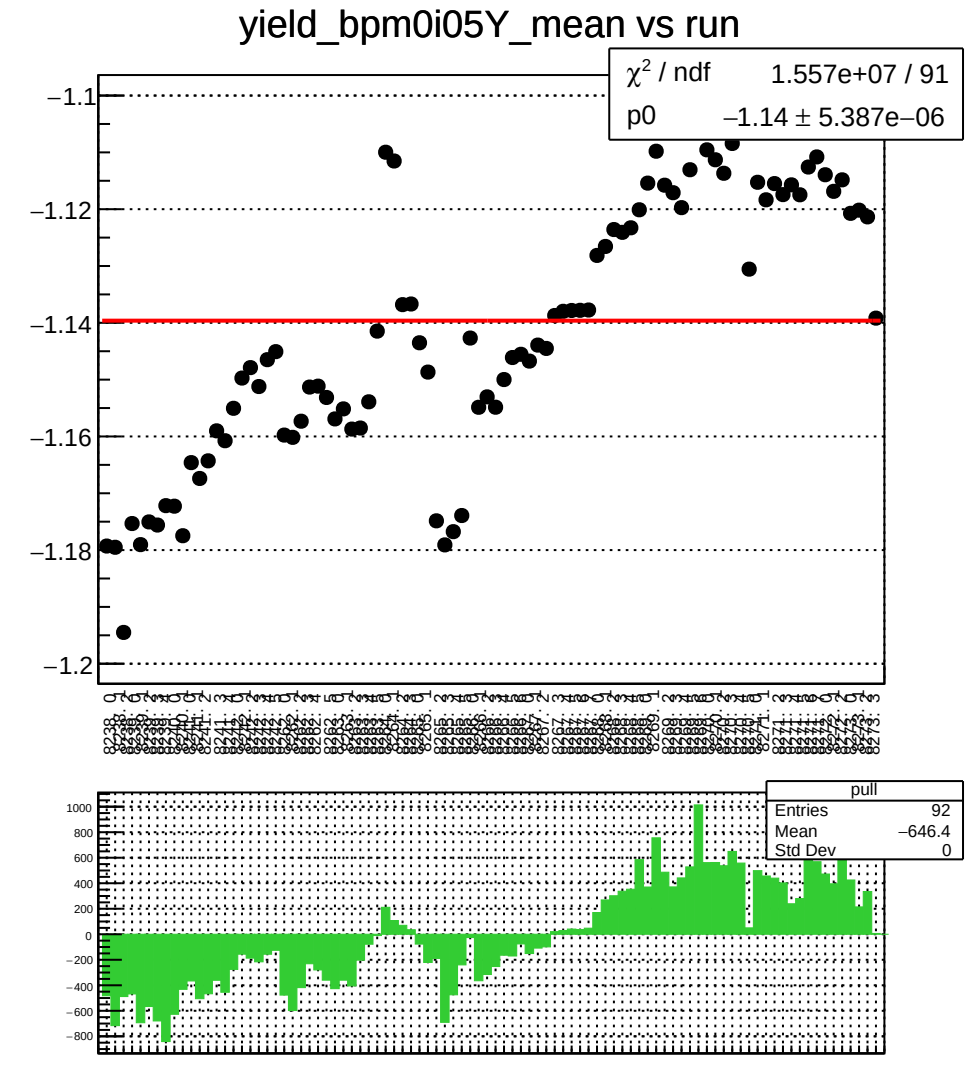

yield_bpm0i02aY_mean vs run
χ² / ndf 1.011e+07 / 91
p0 −0.8618 ± 1.546e−05
−0.75
−0.8
−0.85
−0.9
−0.95
pull
Entries 92
Mean 1144
Std Dev 0
800
600
400
200
0
−200
−400
pull1D
Entries 92
Mean 4.266
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

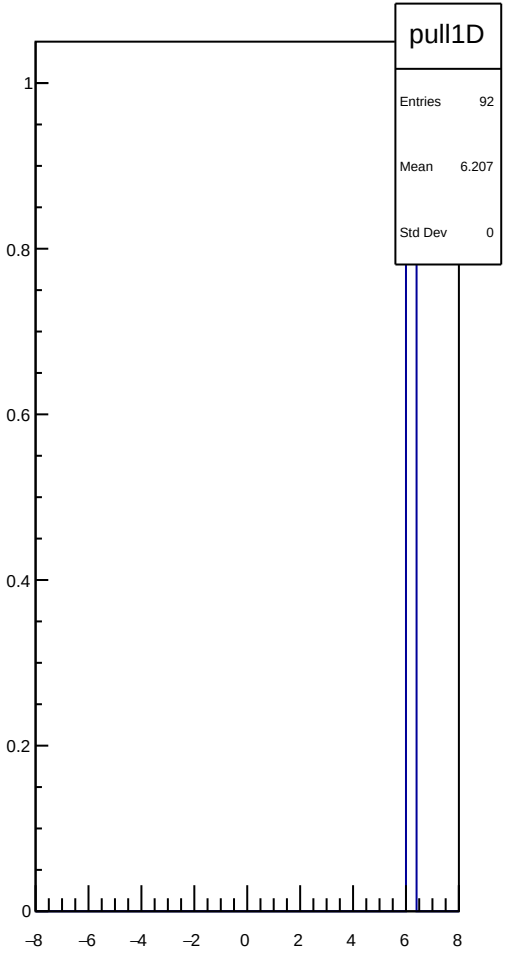

yield_bpm0i02aY_rms vs run
χ² / ndf 5.947e+04 / 91
p0 0.01435 ± 1.093e–05
0.035
0.03
0.025
0.02
0.015
0.01

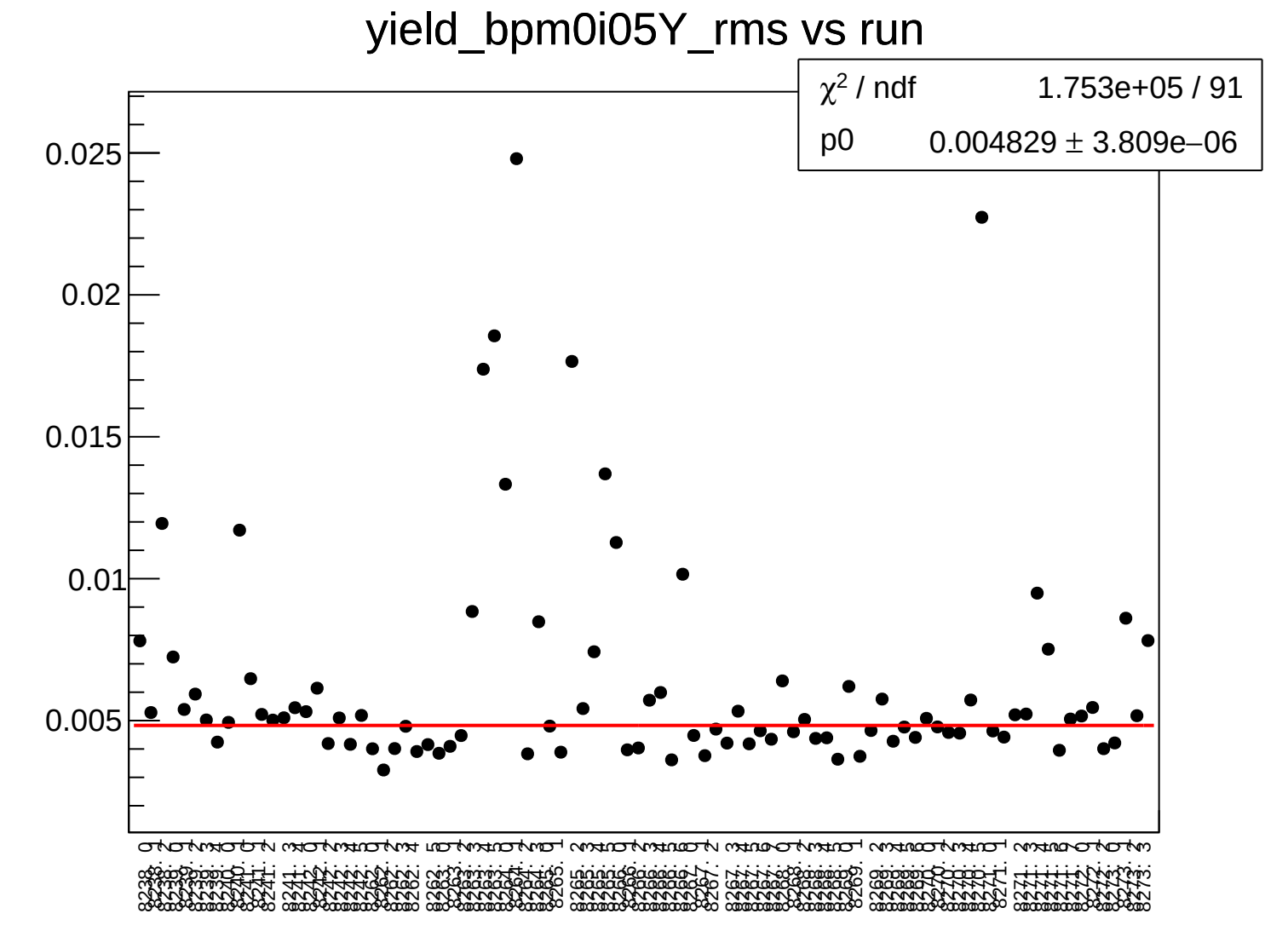

yield_bpm0i05X_mean vs run
χ² / ndf 1.999e+07 / 91
p0 0.032 ± 6.338e−06
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 92
Mean 234
Std Dev 0
1500
1000
500
0
−500

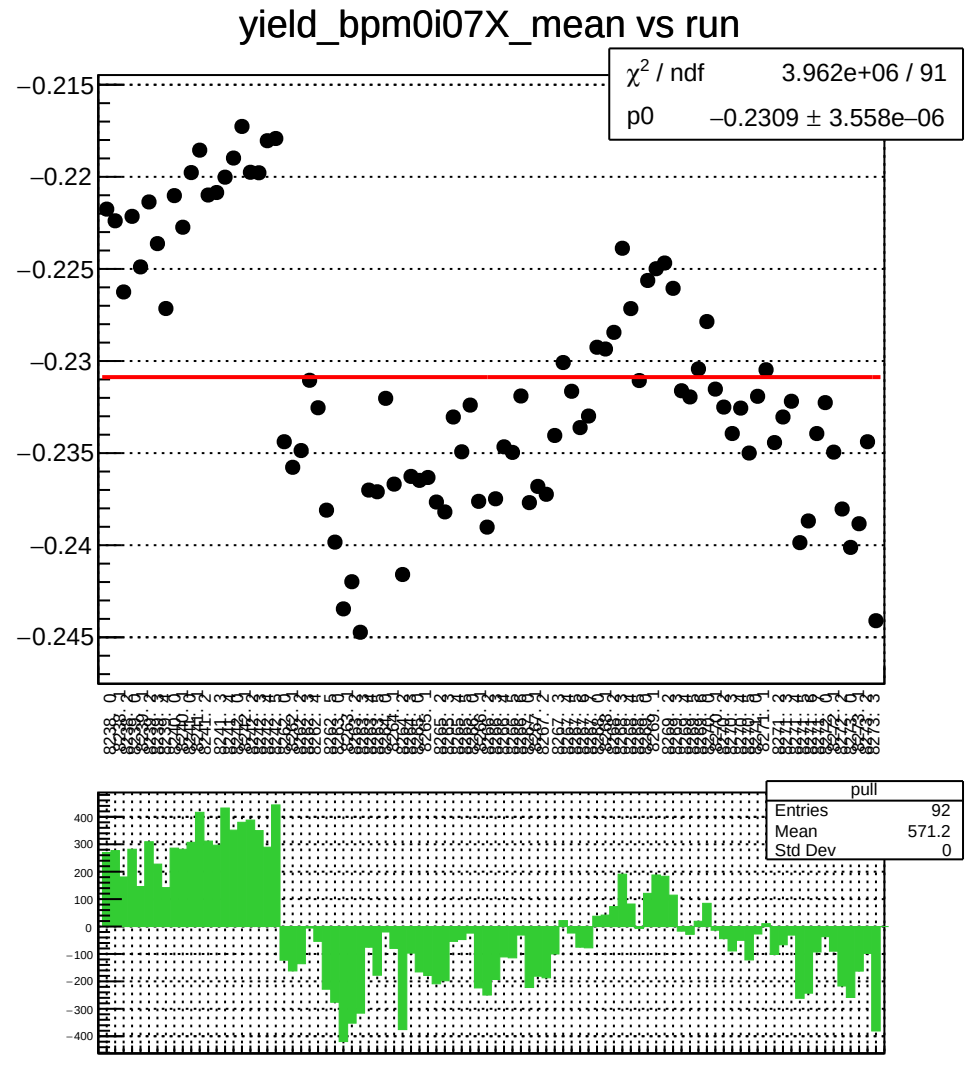

pull1D
Entries 92
Mean 0.3422
Std Dev 4.374
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

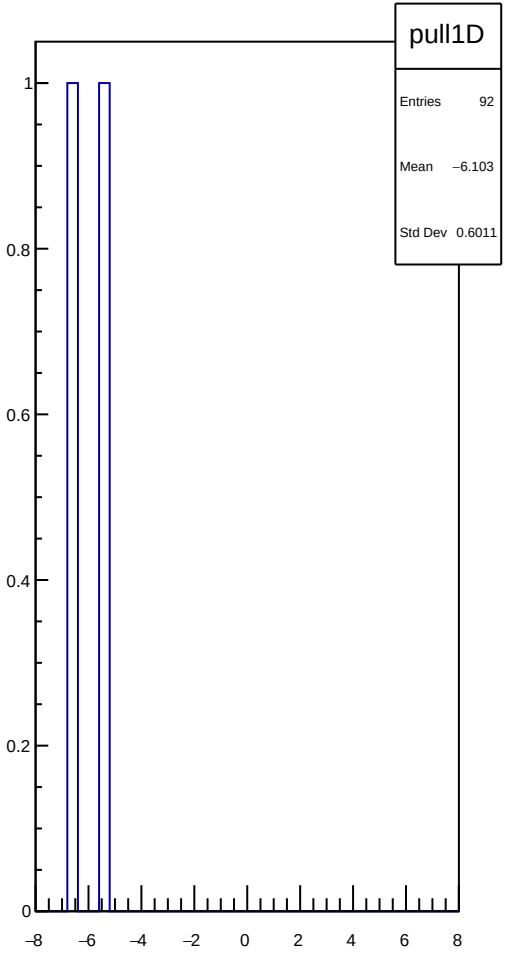

yield_bpm0i05X_rms vs run
χ² / ndf 1.782e+05 / 91
p0 0.005677 ± 4.482e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

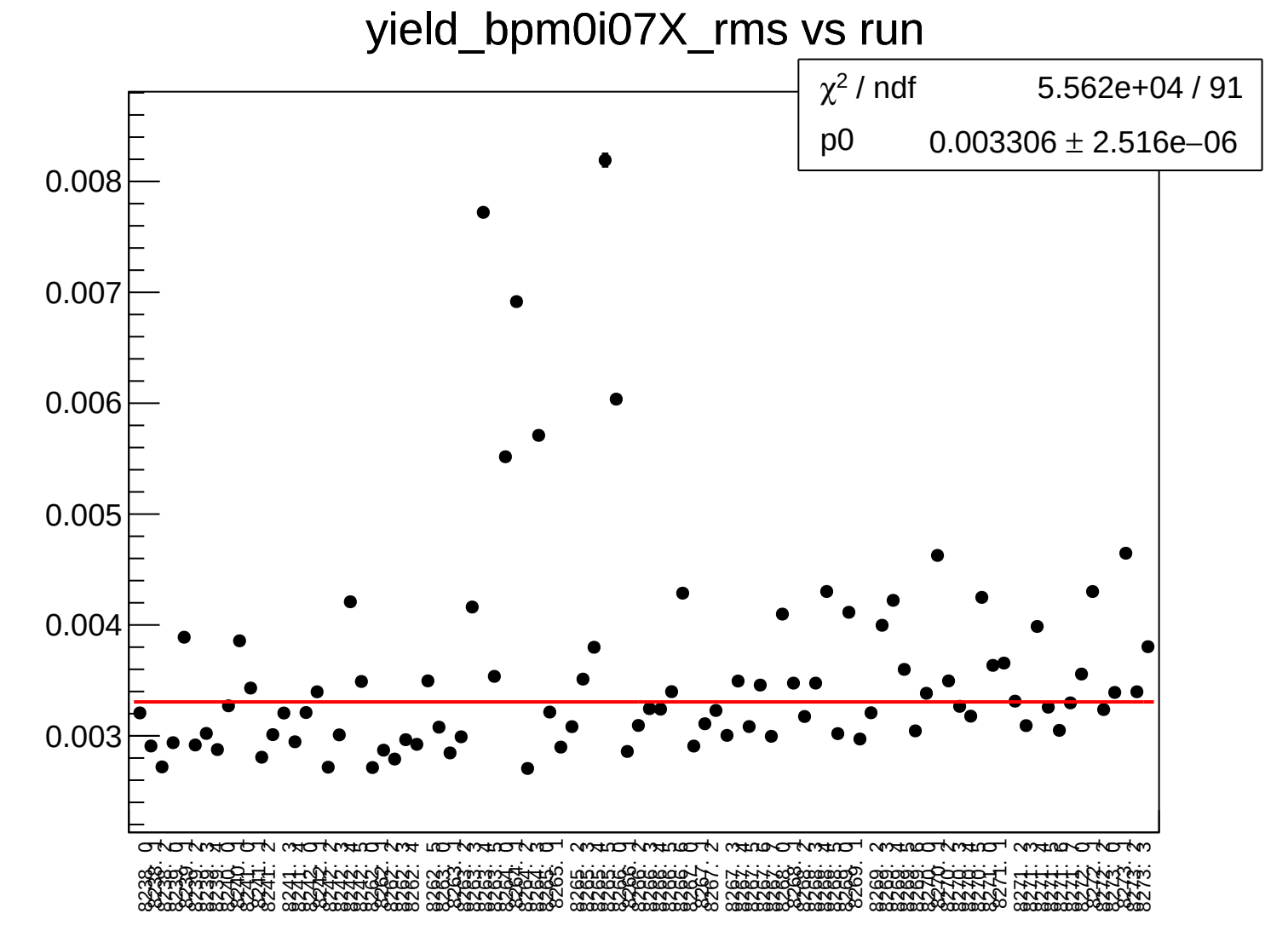

yield_bpm0i05Y_mean vs run
χ² / ndf 1.557e+07 / 91
p0 −1.14 ± 5.387e−06
−1.1
−1.12
−1.14
−1.16
−1.18
−1.2
pull
Entries 92
Mean −646.4
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

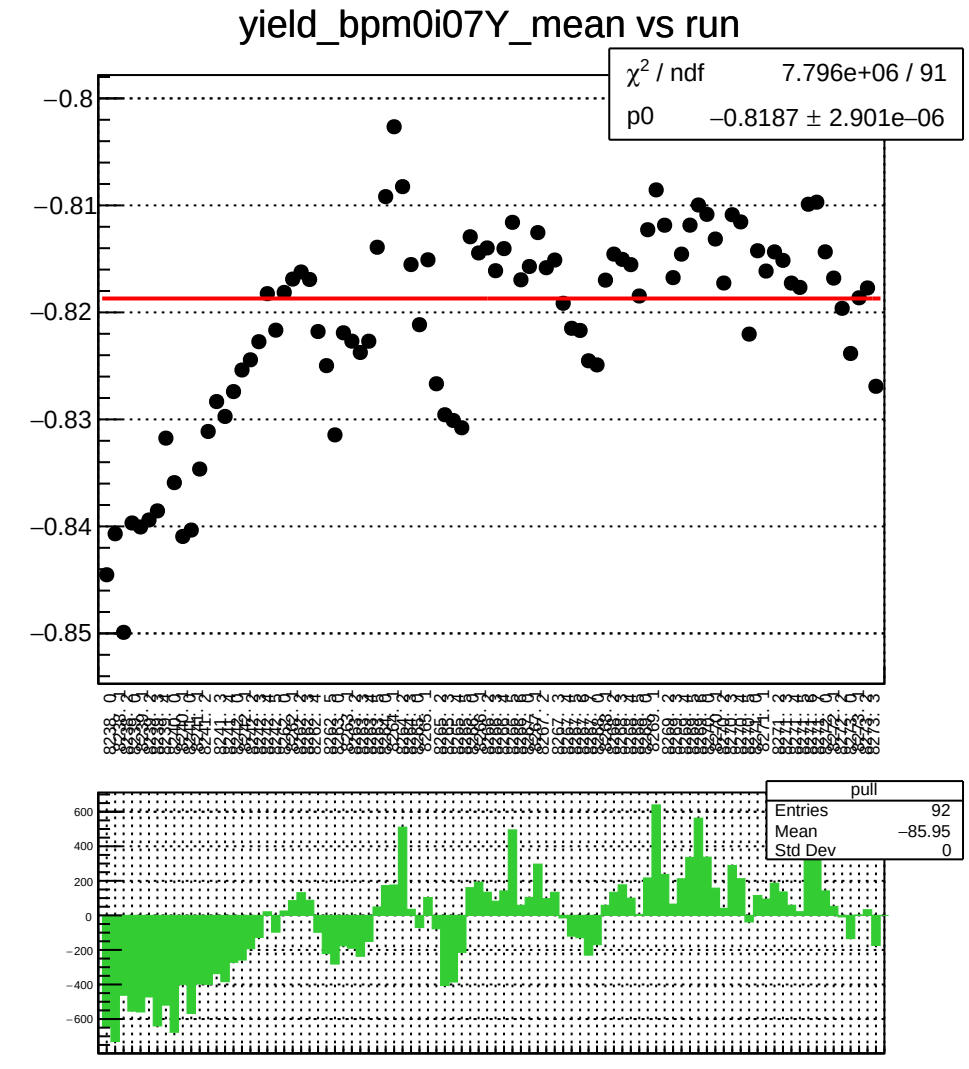

pull1D
Entries 92
Mean 6.207
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

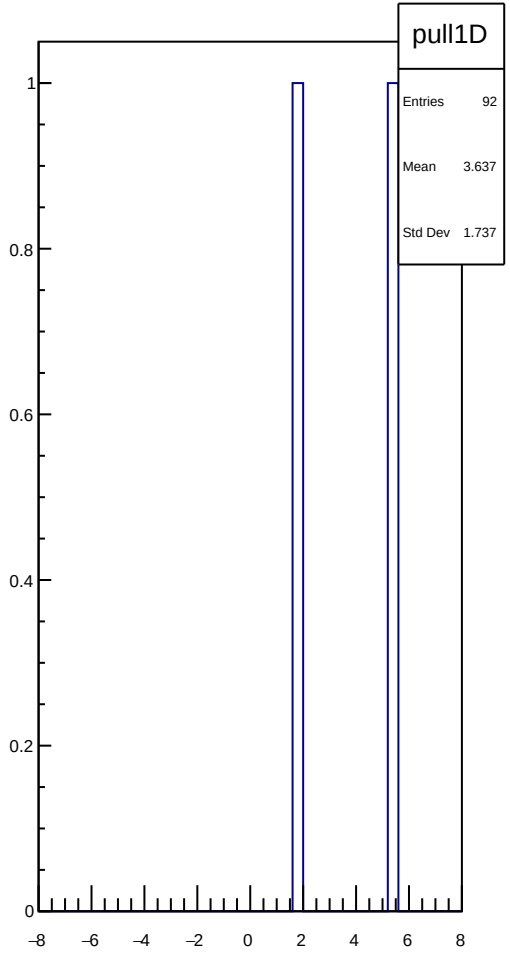

yield_bpm0i05Y_rms vs run
χ² / ndf 1.753e+05 / 91
p0 0.004829 ± 3.809e−06
0.025
0.02
0.015
0.01
0.005

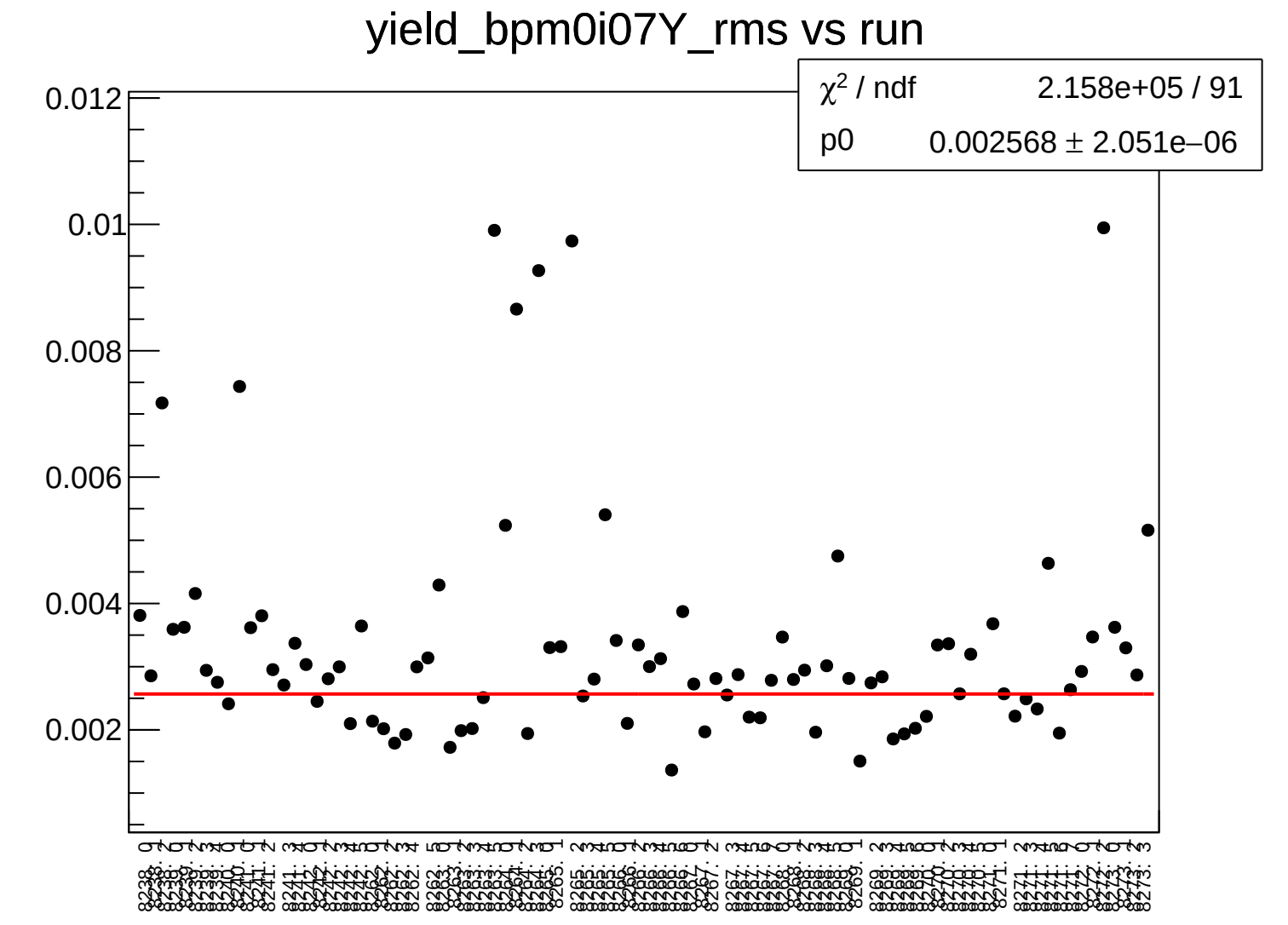

yield_bpm0i07X_mean vs run
χ² / ndf 3.962e+06 / 91
p0 −0.2309 ± 3.558e−06
−0.215
−0.22
−0.225
−0.23
−0.235
−0.24
−0.245
pull
Entries 92
Mean 571.2
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

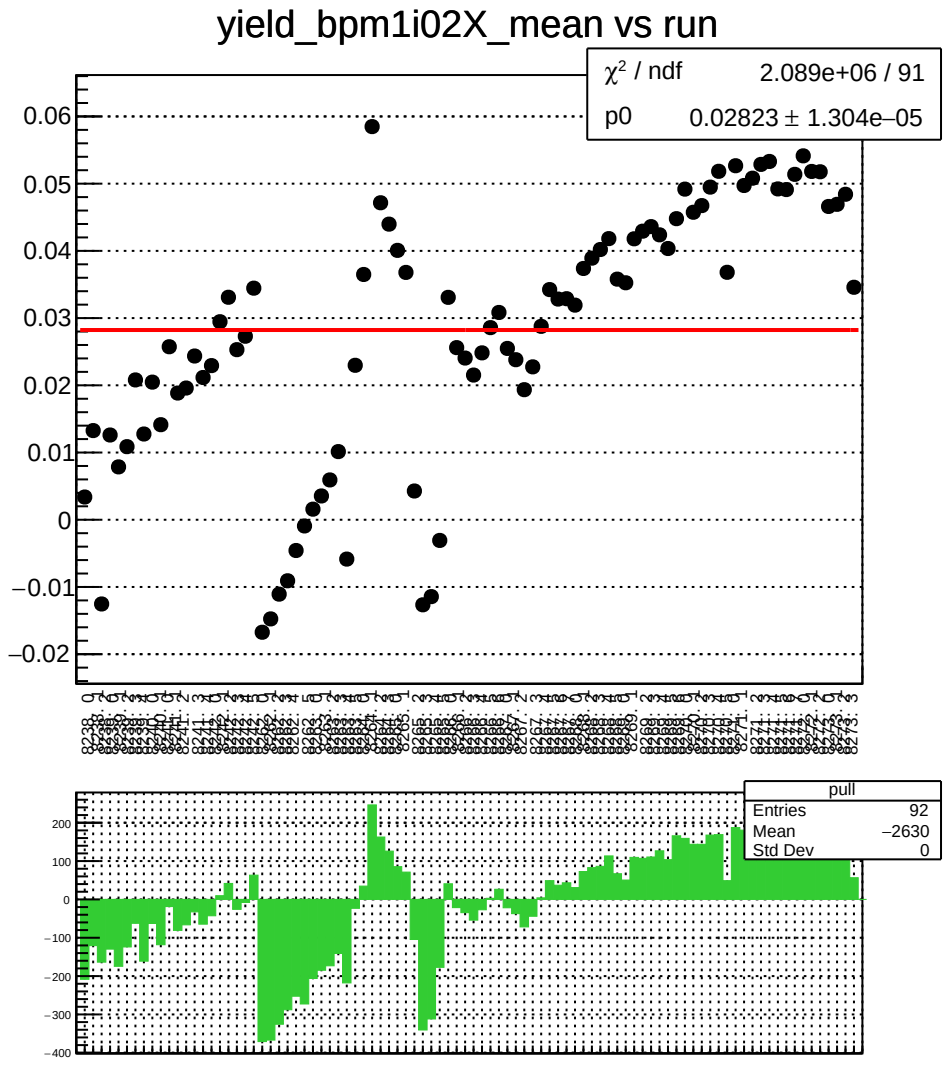

pull1D
Entries 92
Mean −6.103
Std Dev 0.6011
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

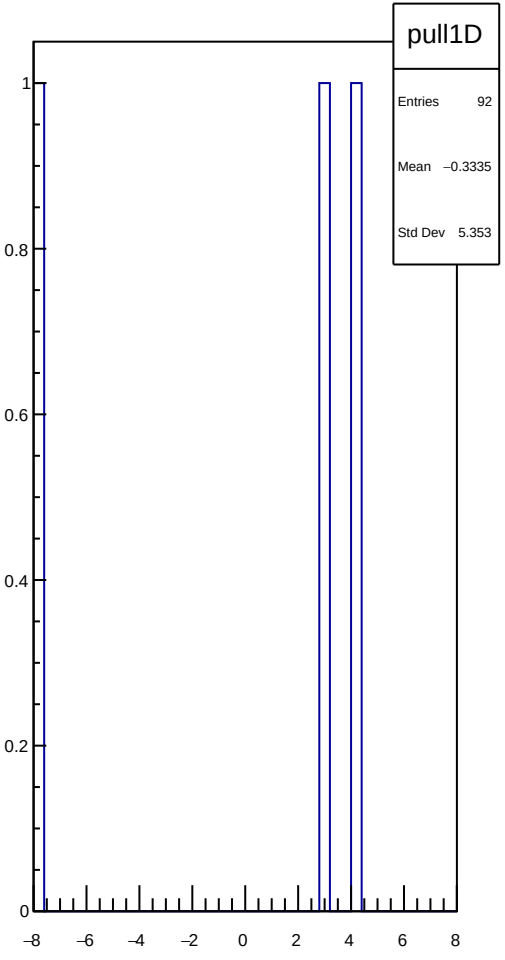

yield_bpm0i07X_rms vs run
χ² / ndf 5.562e+04 / 91
p0 0.003306 ± 2.516e−06
0.008
0.007
0.006
0.005
0.004
0.003

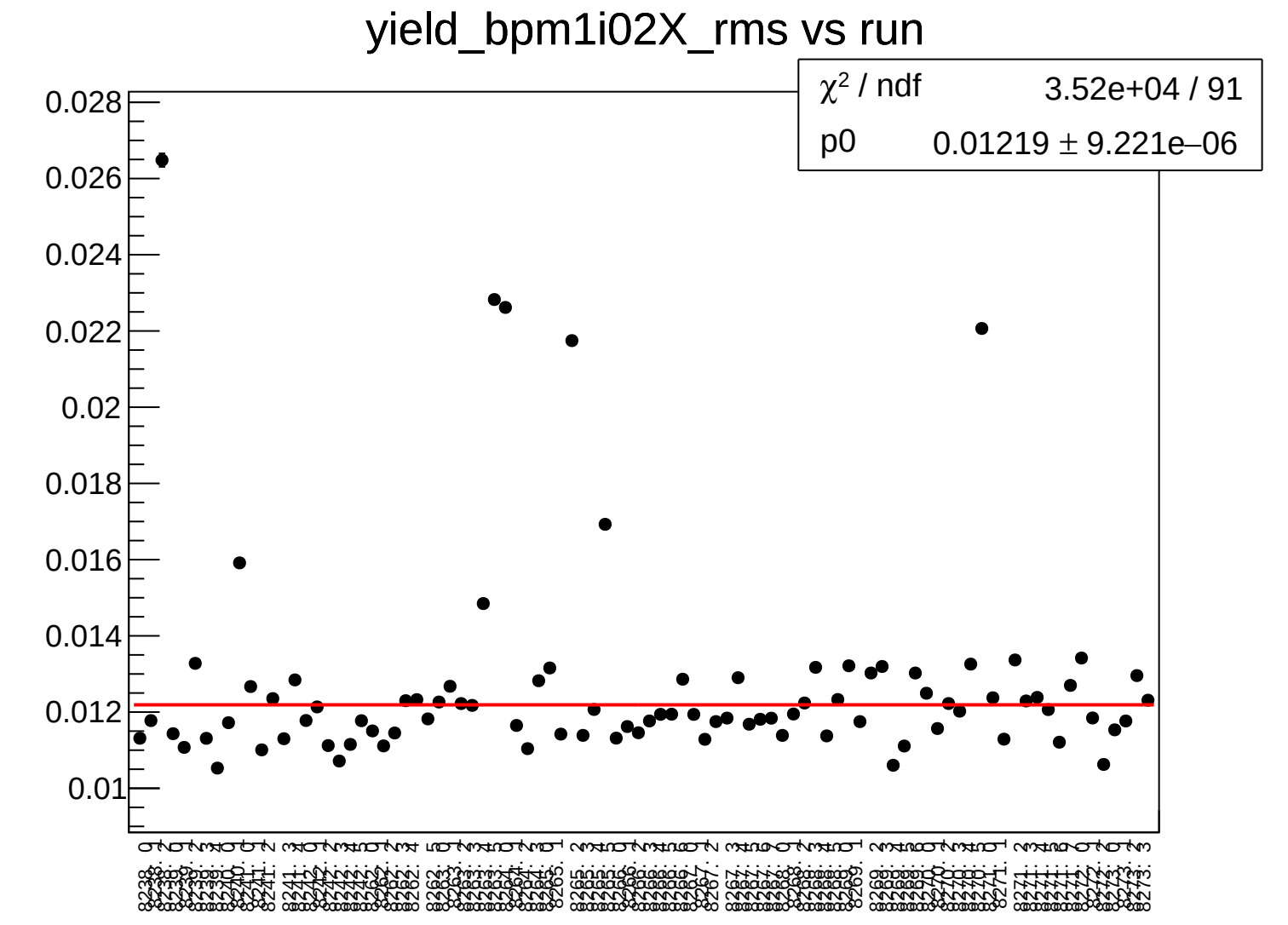

yield_bpm0i07Y_mean vs run
χ² / ndf 7.796e+06 / 91
p0 −0.8187 ± 2.901e−06
−0.8
−0.81
−0.82
−0.83
−0.84
−0.85
pull
Entries 92
Mean −85.95
Std Dev 0
600
400
200
0
−200
−400
−600

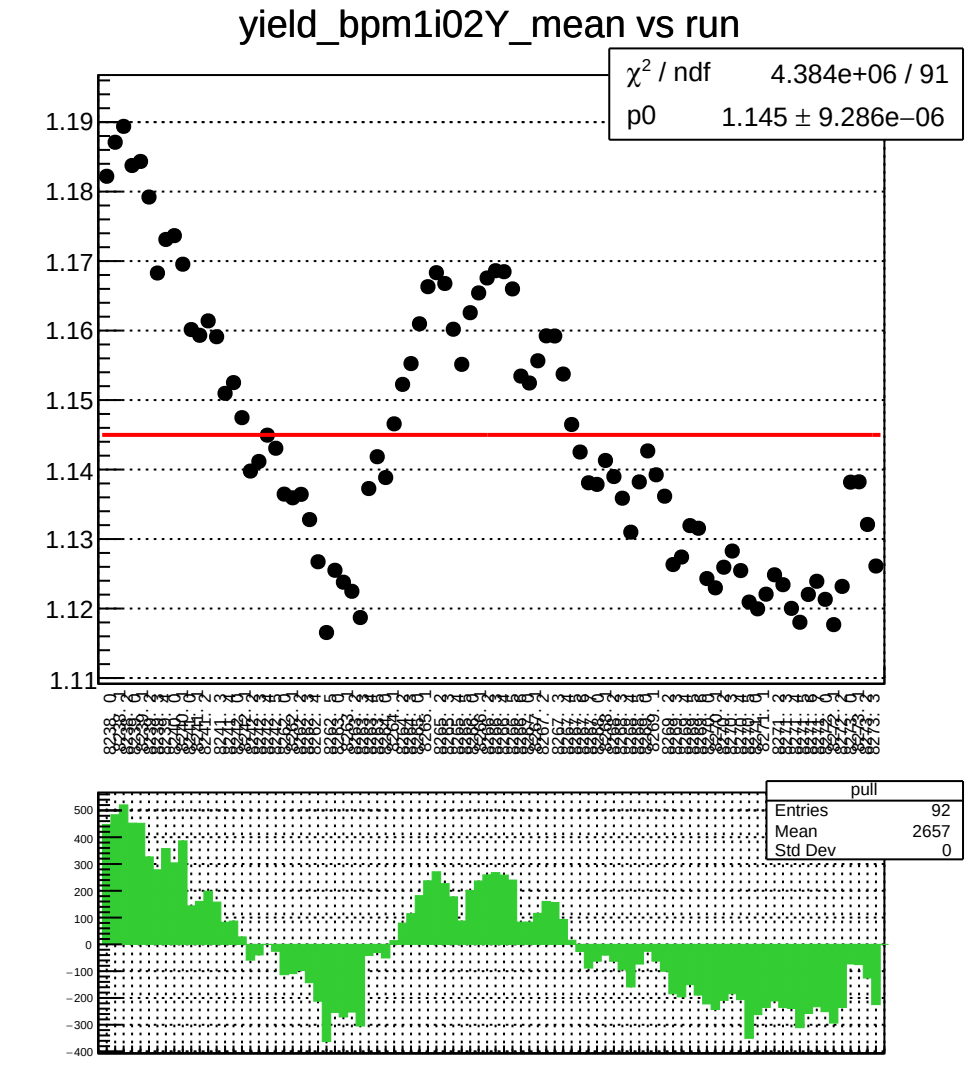

pull1D
Entries 92
Mean 3.637
Std Dev 1.737
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

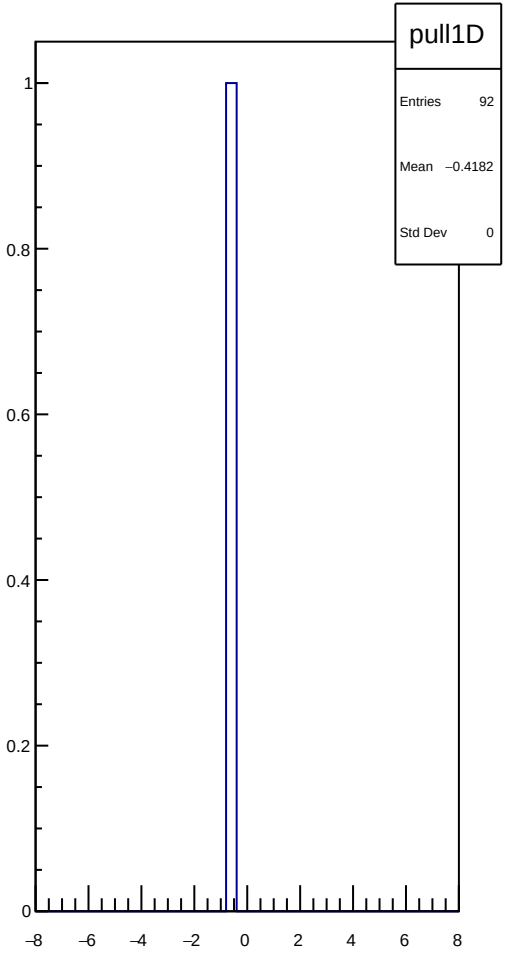

yield_bpm0i07Y_rms vs run
χ² / ndf 2.158e+05 / 91
p0 0.002568 ± 2.051e−06
0.012
0.01
0.008
0.006
0.004
0.002

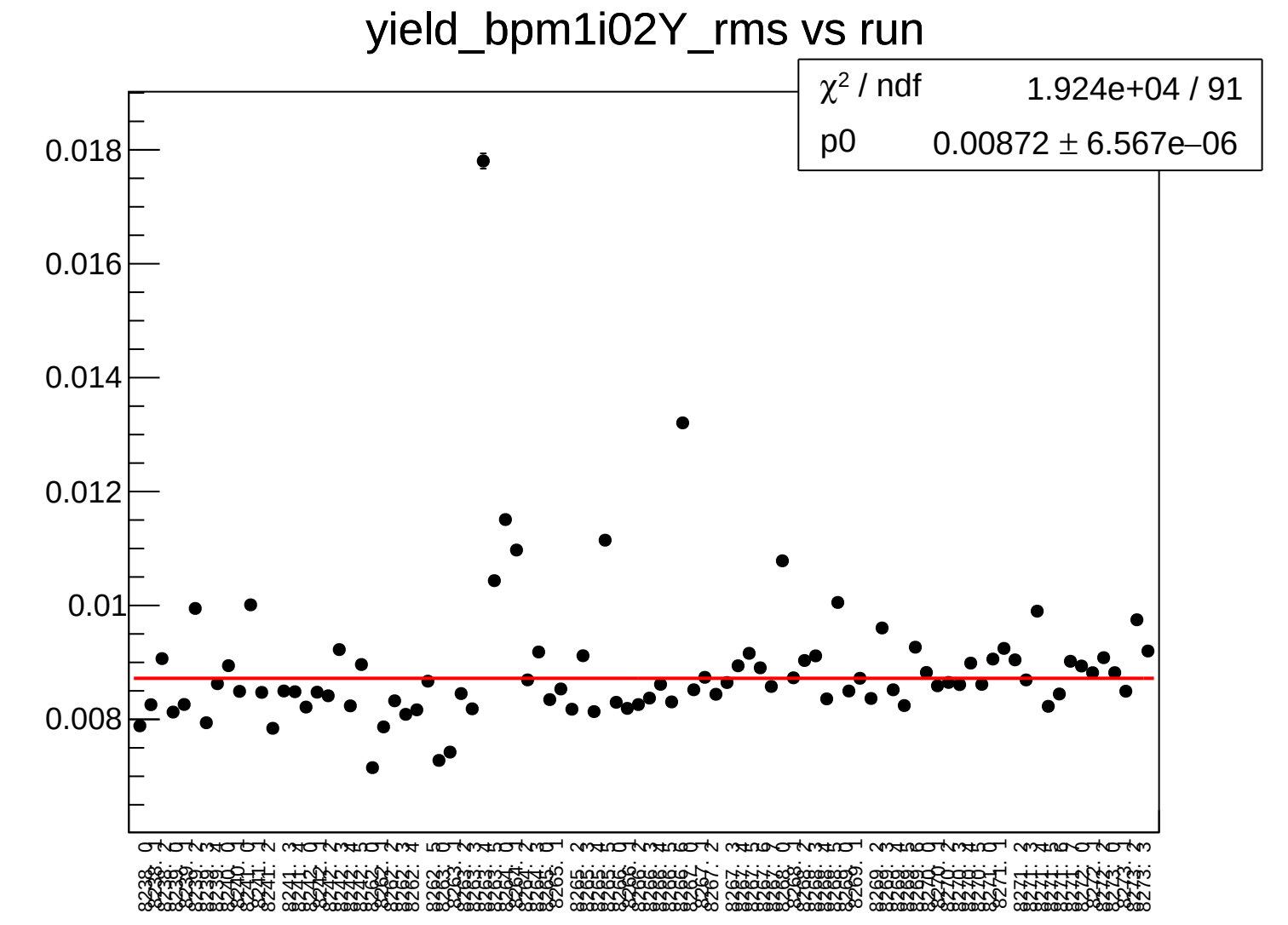

yield_bpm1i02X_mean vs run
χ² / ndf 2.089e+06 / 91
p0 0.02823 ± 1.304e−05
pull
Entries 92
Mean −2630
Std Dev 0

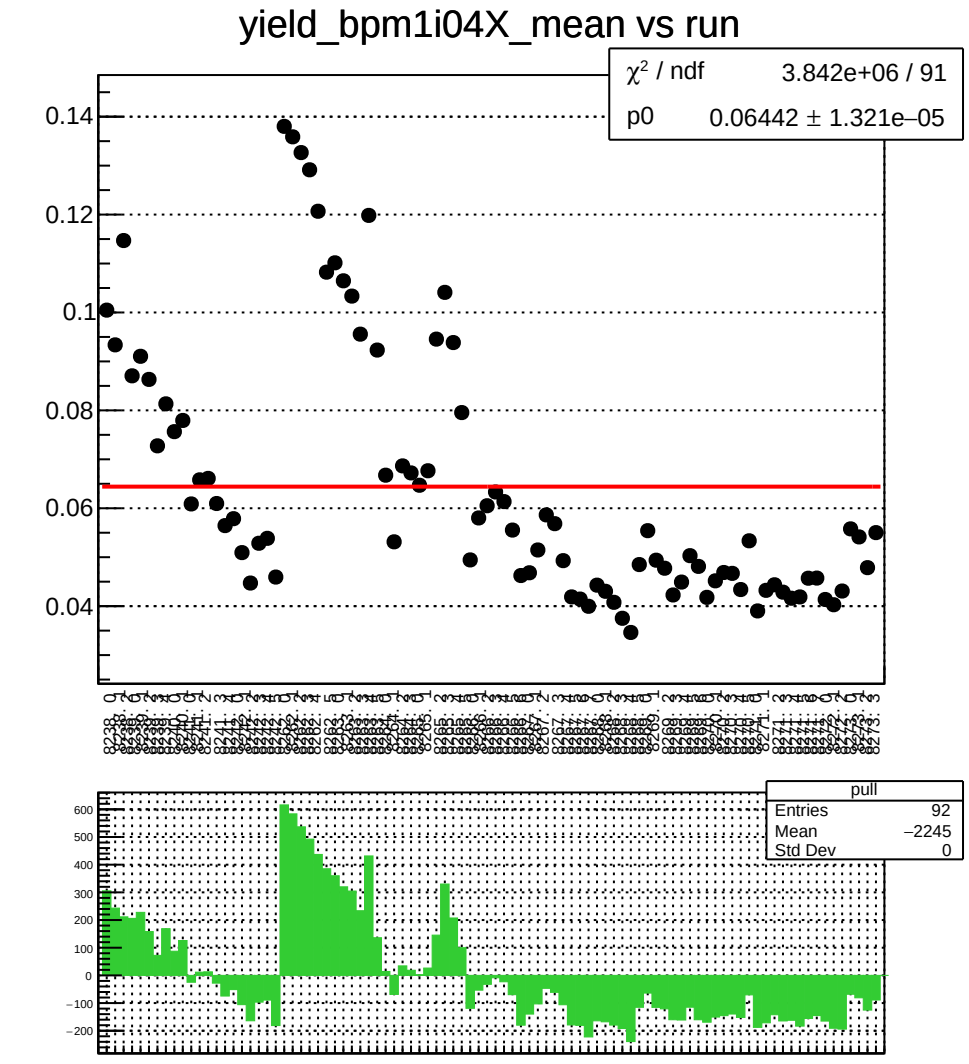

pull1D
Entries 92
Mean −0.3335
Std Dev 5.353

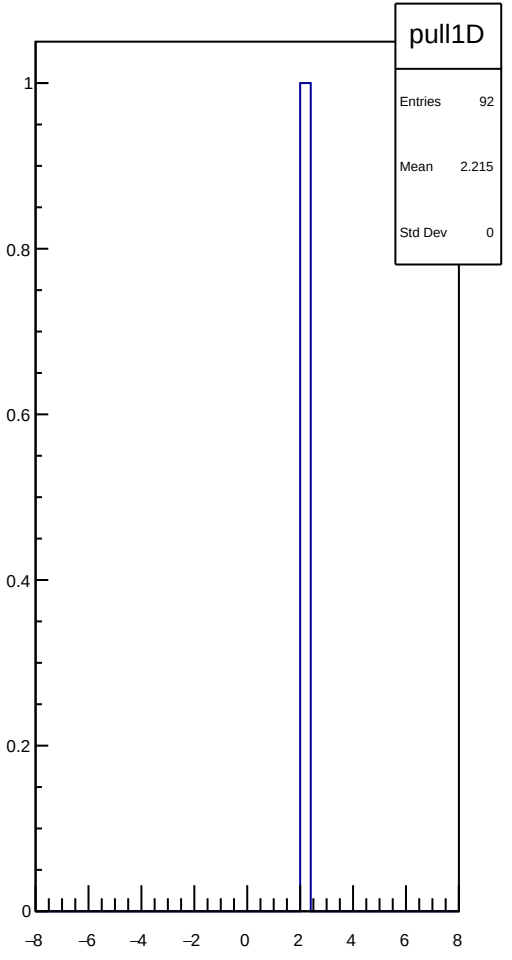

yield_bpm1i02X_rms vs run
χ² / ndf 3.52e+04 / 91
p0 0.01219 ± 9.221e–06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

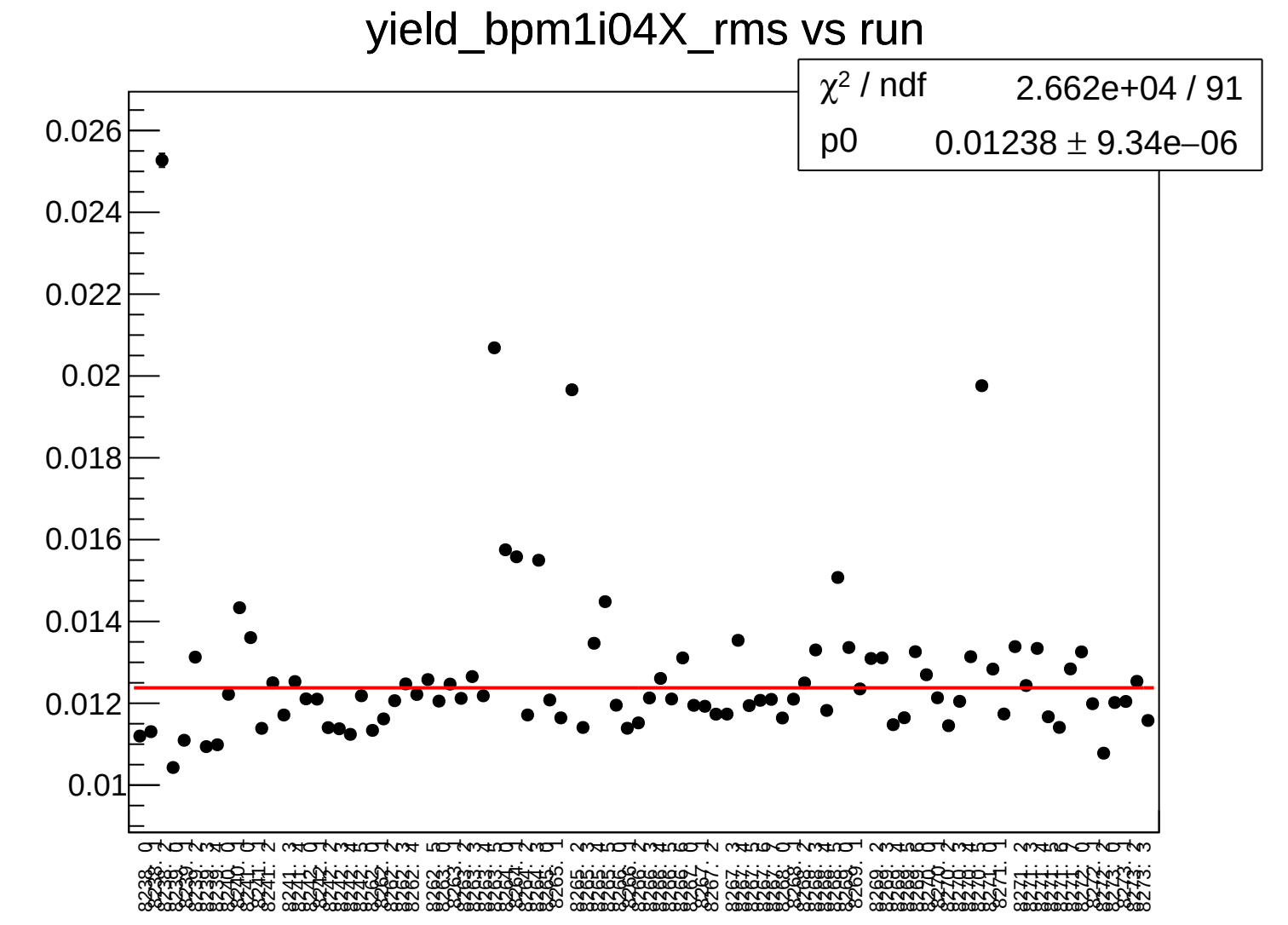

yield_bpm1i02Y_mean vs run
χ² / ndf 4.384e+06 / 91
p0 1.145 ± 9.286e−06
pull
Entries 92
Mean 2657
Std Dev 0

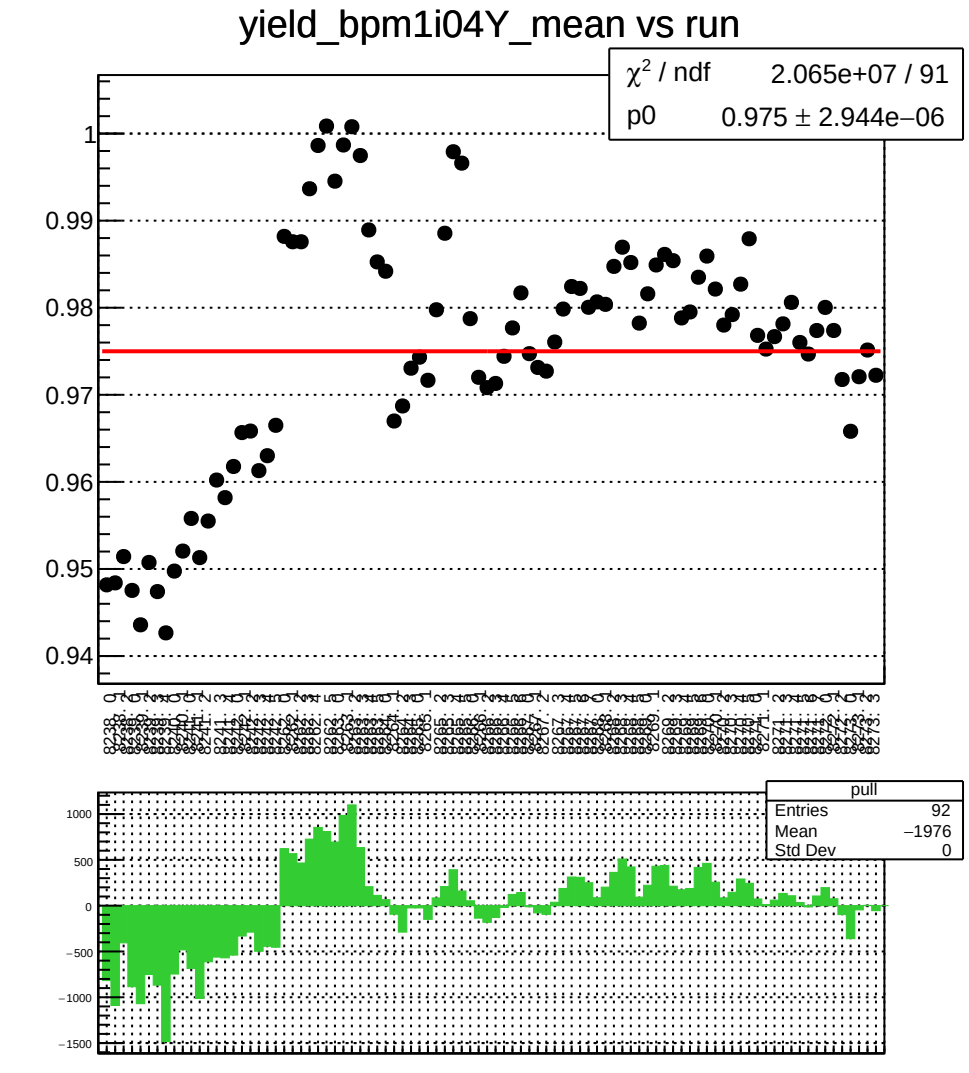

pull1D
Entries 92
Mean −0.4182
Std Dev 0

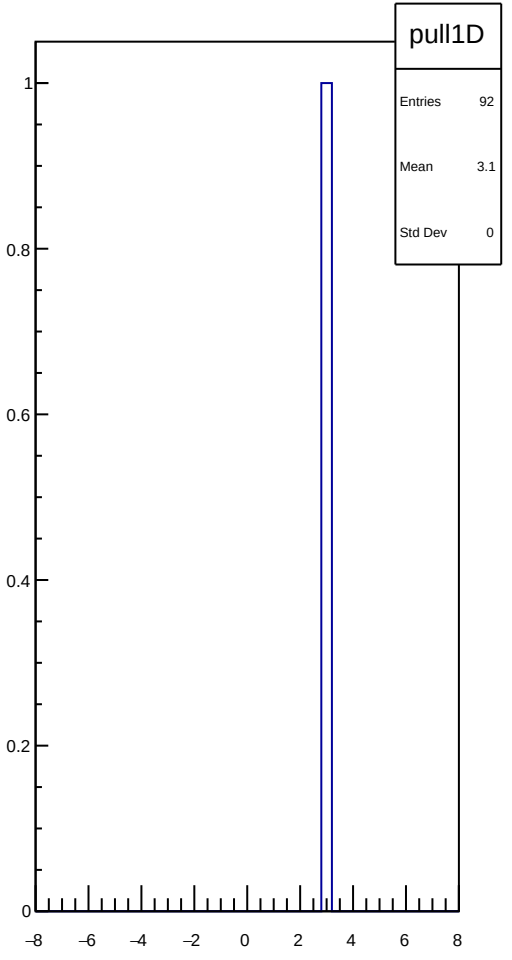

yield_bpm1i02Y_rms vs run
χ² / ndf 1.924e+04 / 91
p0 0.00872 ± 6.567e–06
0.018
0.016
0.014
0.012
0.01
0.008

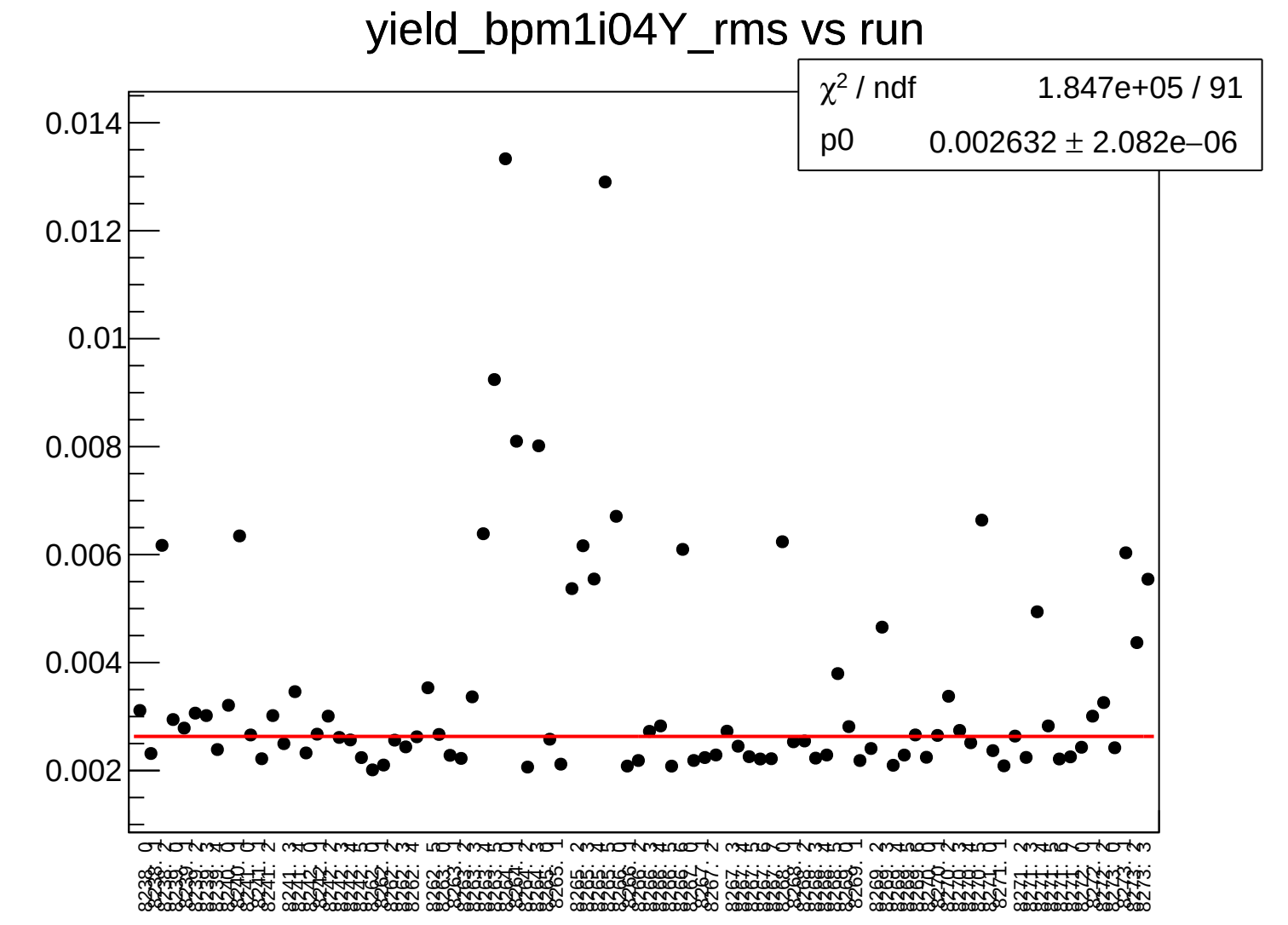

yield_bpm1i04X_mean vs run
χ² / ndf 3.842e+06 / 91
p0 0.06442 ± 1.321e−05
0.14
0.12
0.1
0.08
0.06
0.04
pull
Entries 92
Mean −2245
Std Dev 0
600
500
400
300
200
100
0
−100
−200

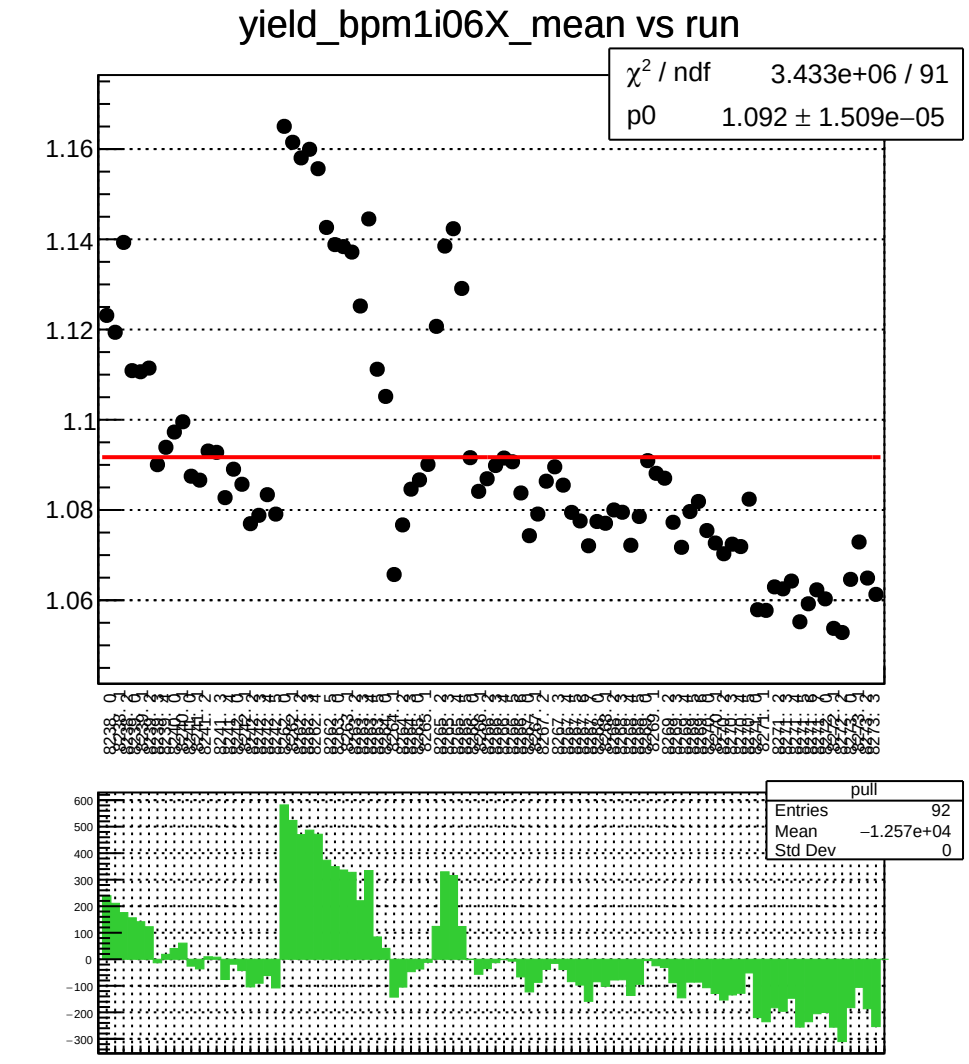

pull1D
Entries 92
Mean 2.215
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

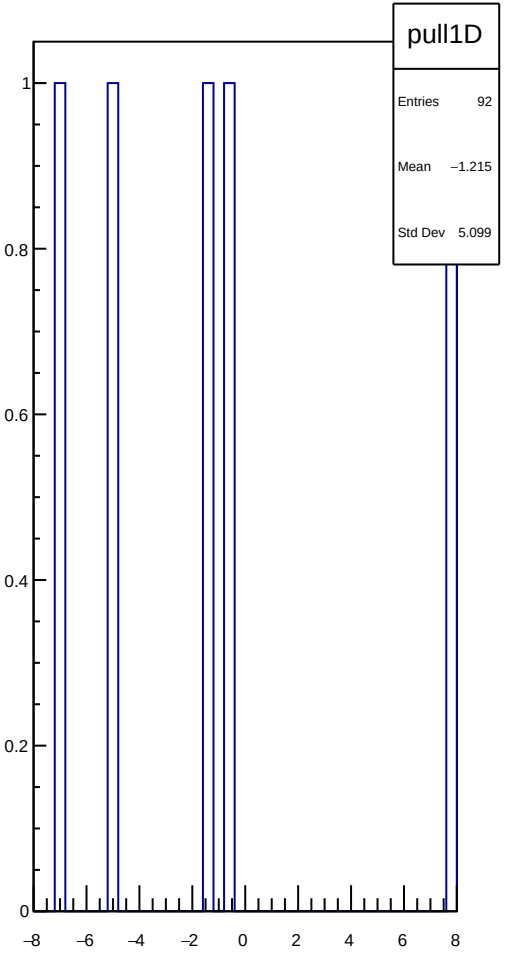

yield_bpm1i04X_rms vs run
χ² / ndf 2.662e+04 / 91
p0 0.01238 ± 9.34e−06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

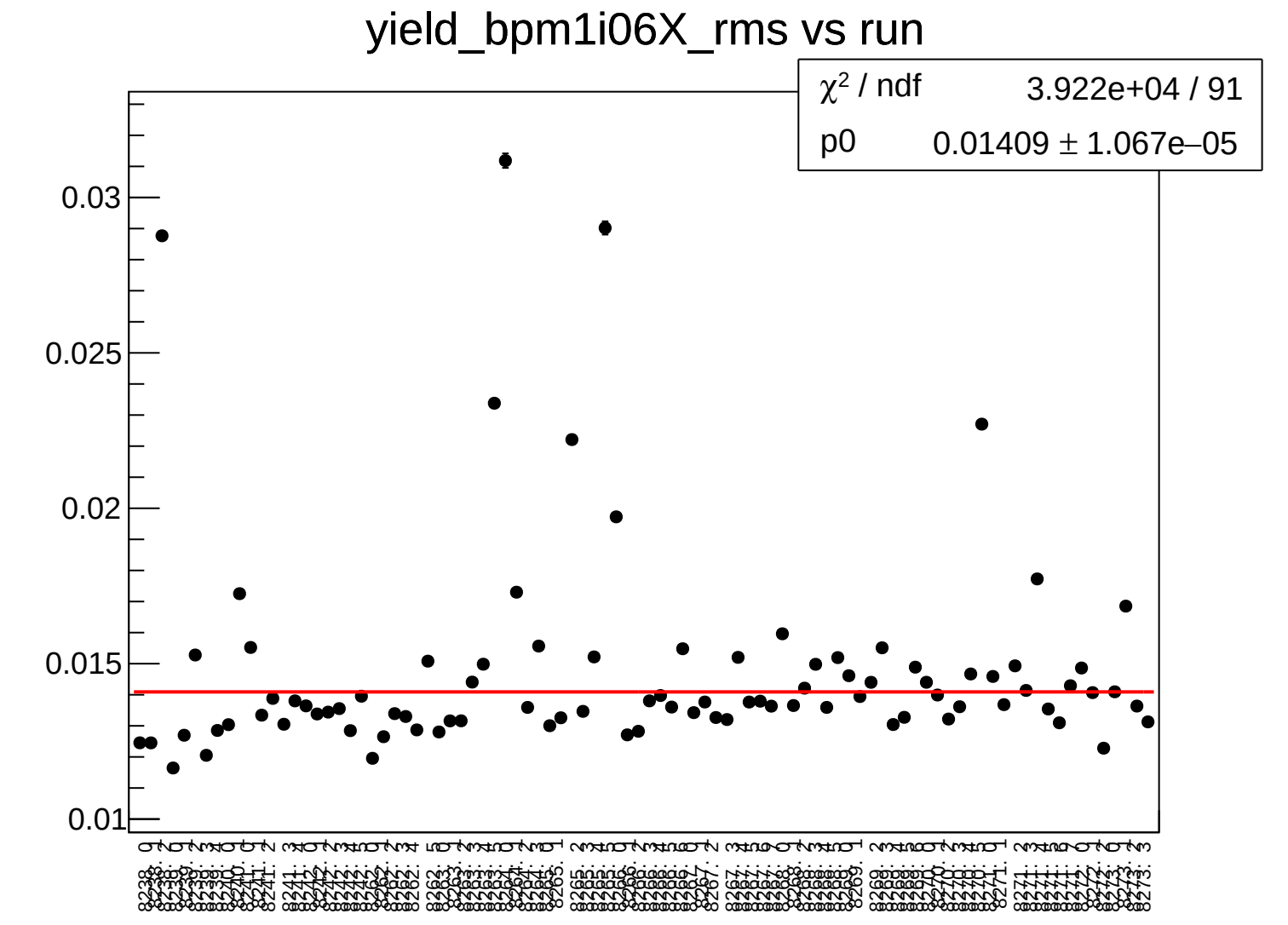

yield_bpm1i04Y_mean vs run
χ² / ndf 2.065e+07 / 91
p0 0.975 ± 2.944e−06
1
0.99
0.98
0.97
0.96
0.95
0.94
pull
Entries 92
Mean −1976
Std Dev 0
1000
500
0
−500
−1000
−1500

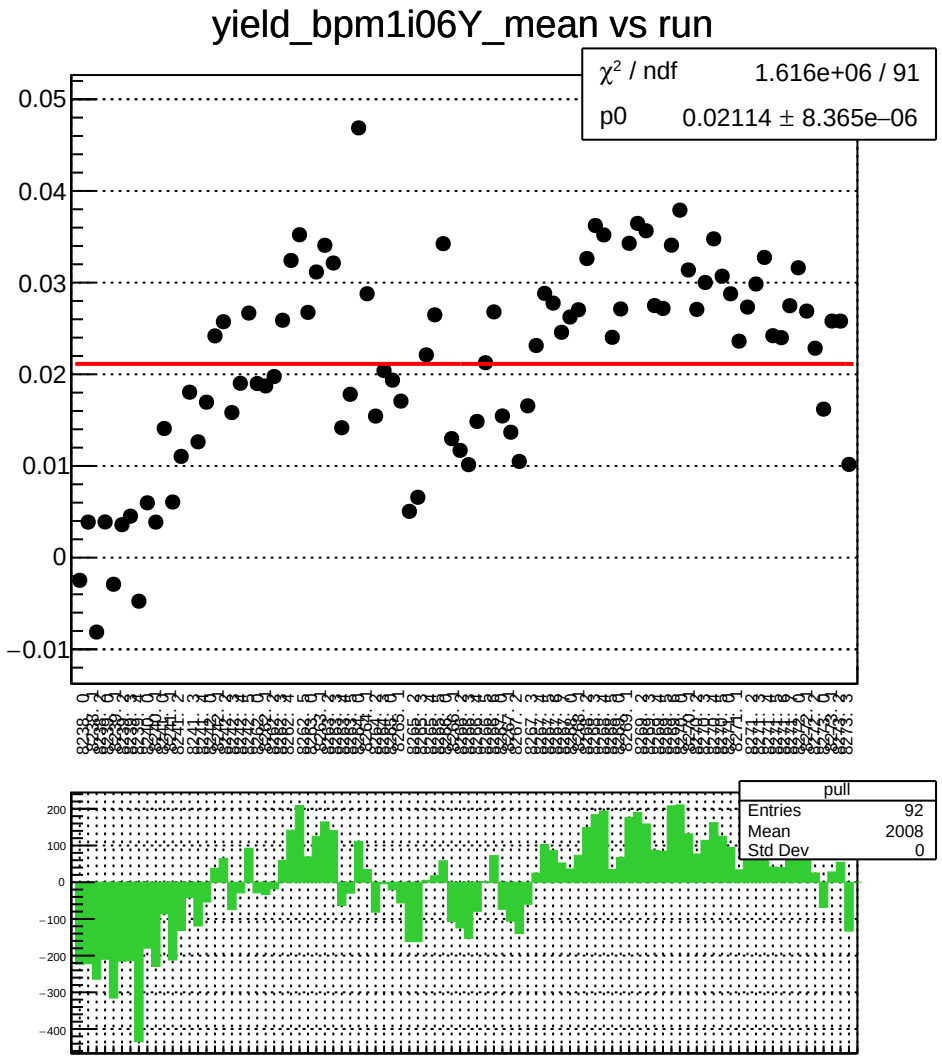

pull1D
Entries 92
Mean 3.1
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

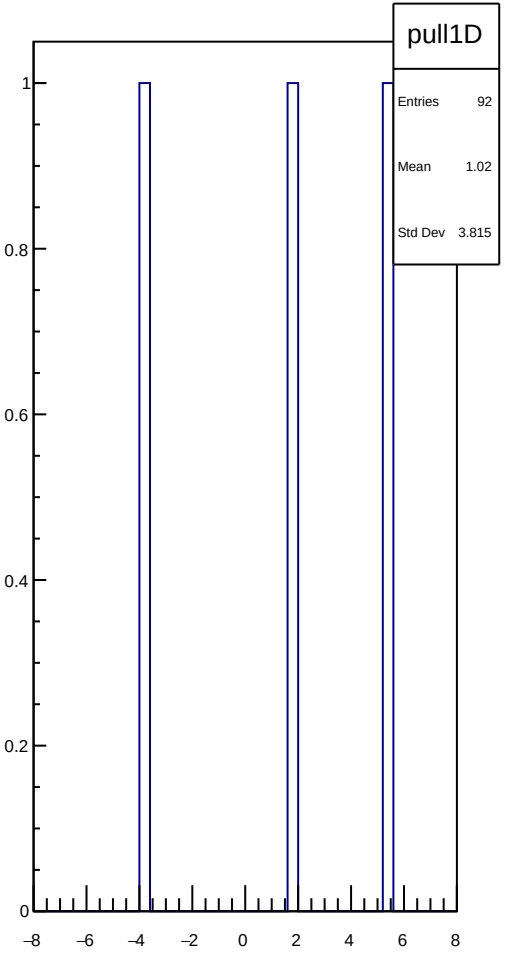

yield_bpm1i04Y_rms vs run
$\chi^2$ / ndf 1.847e+05 / 91
p0 0.002632 ± 2.082e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

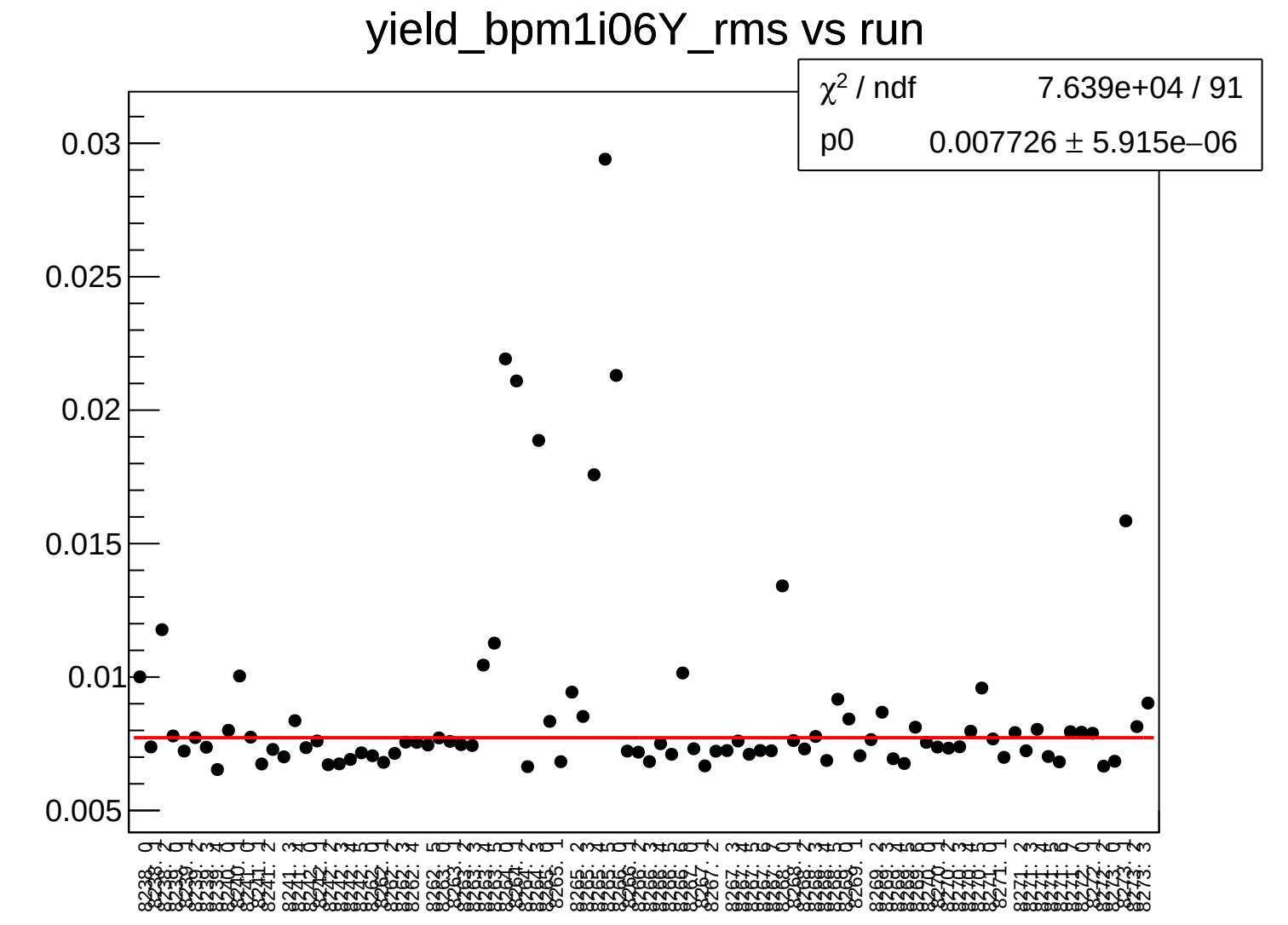

yield_bpm1i06X_mean vs run
χ² / ndf 3.433e+06 / 91
p0 1.092 ± 1.509e−05
1.16
1.14
1.12
1.1
1.08
1.06
pull
Entries 92
Mean −1.257e+04
Std Dev 0
600
500
400
300
200
100
0
−100
−200
−300

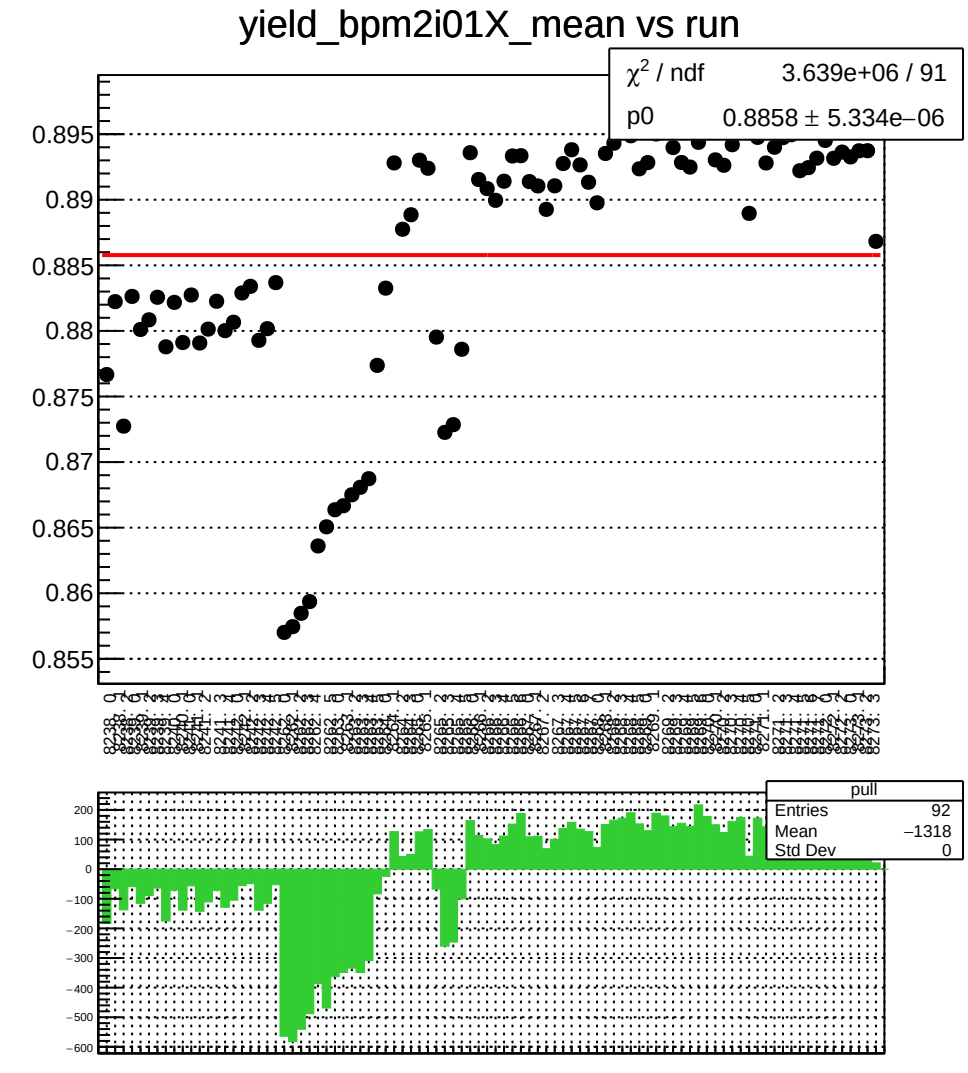

pull1D
Entries 92
Mean −1.215
Std Dev 5.099
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

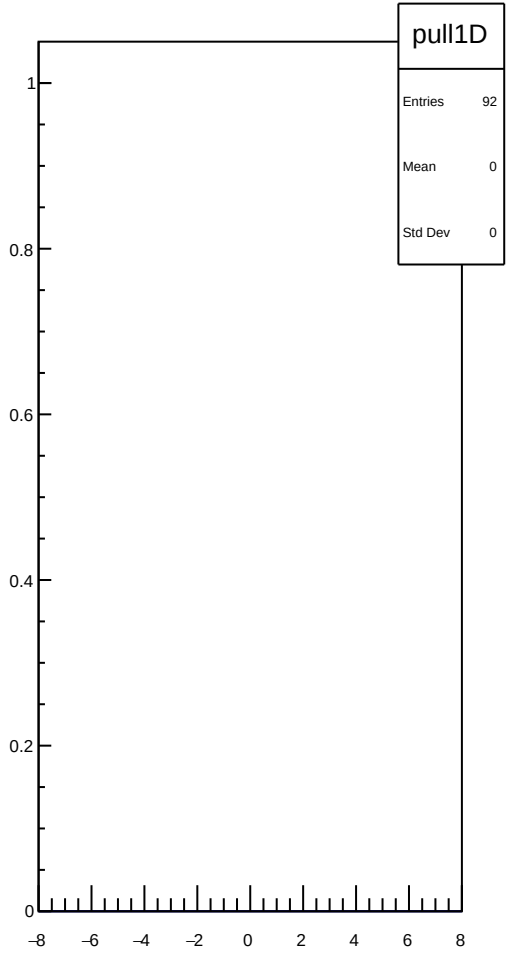

yield_bpm1i06X_rms vs run
χ² / ndf 3.922e+04 / 91
p0 0.01409 ± 1.067e–05
0.03
0.025
0.02
0.015
0.01

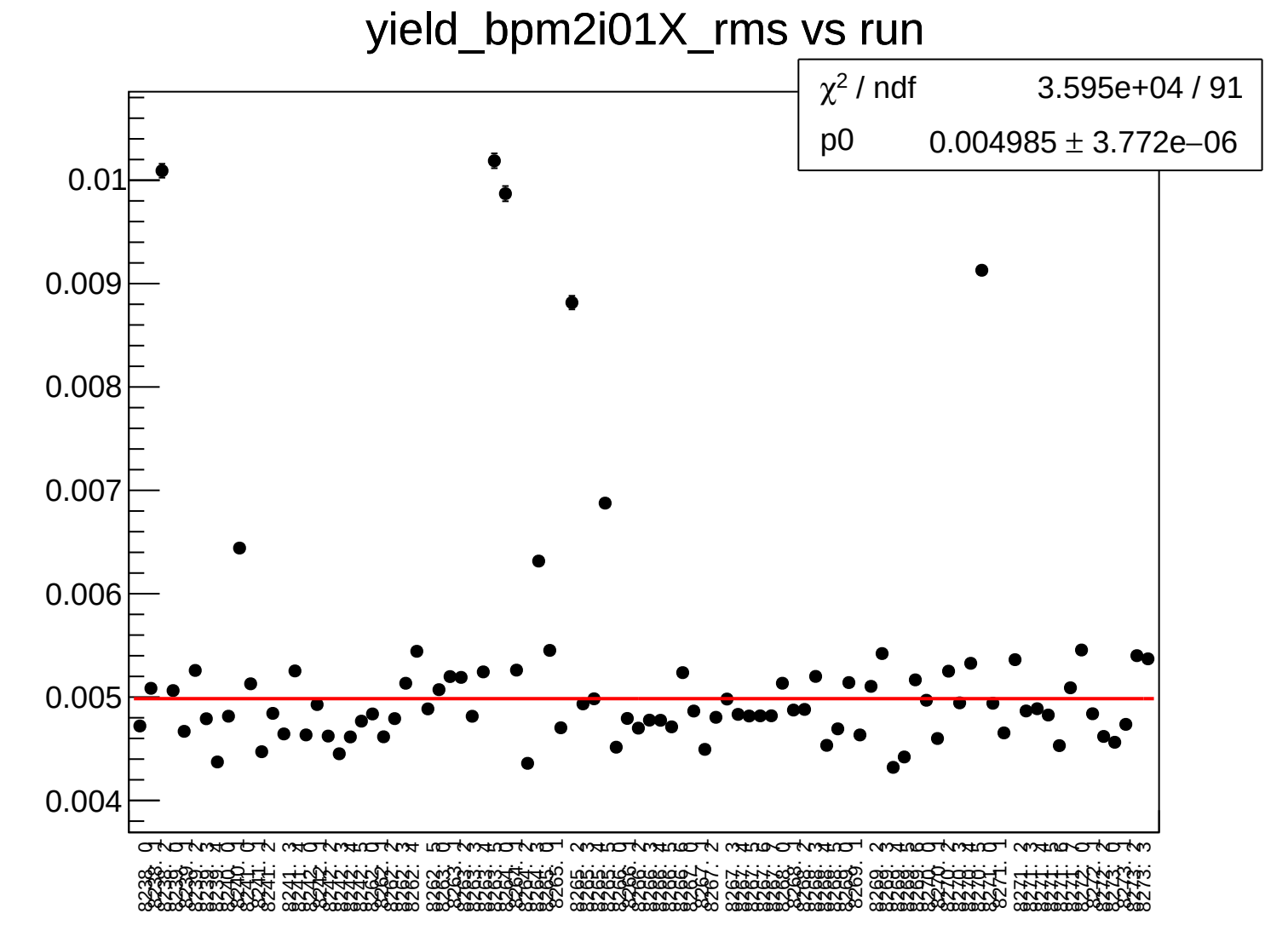

yield_bpm1i06Y_mean vs run
χ² / ndf 1.616e+06 / 91
p0 0.02114 ± 8.365e−06
0.05
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 92
Mean 2008
Std Dev 0
200
100
0
−100
−200
−300
−400

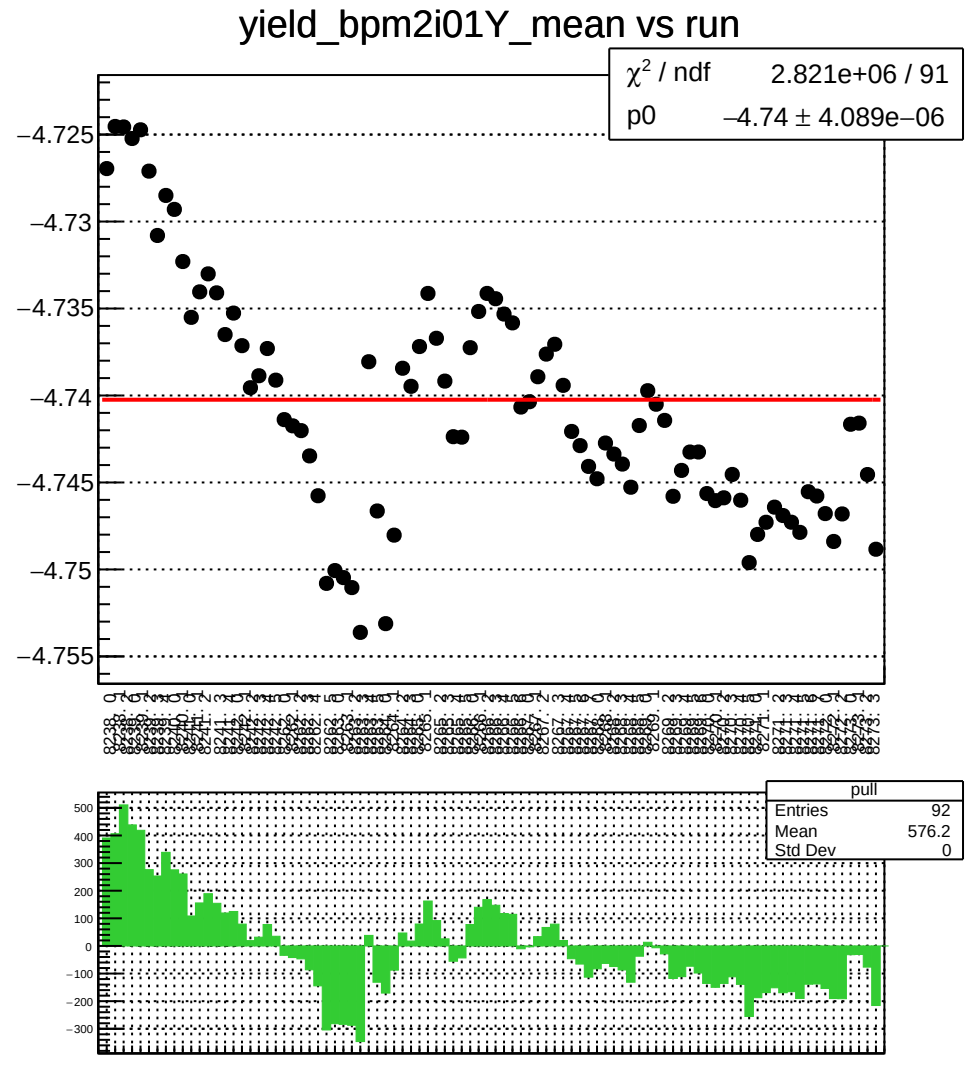

pull1D
Entries 92
Mean 1.02
Std Dev 3.815
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

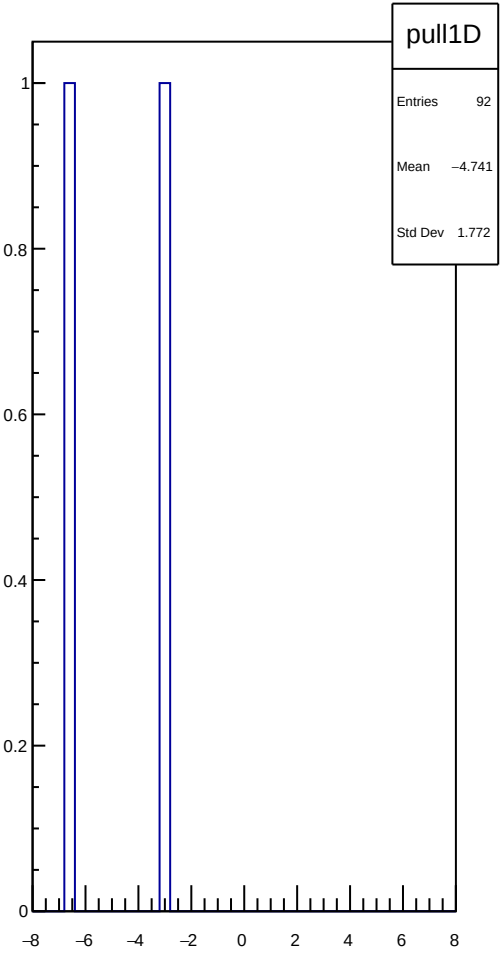

yield_bpm1i06Y_rms vs run
$\chi^2$ / ndf 7.639e+04 / 91
p0 0.007726 ± 5.915e−06
0.03
0.025
0.02
0.015
0.01
0.005

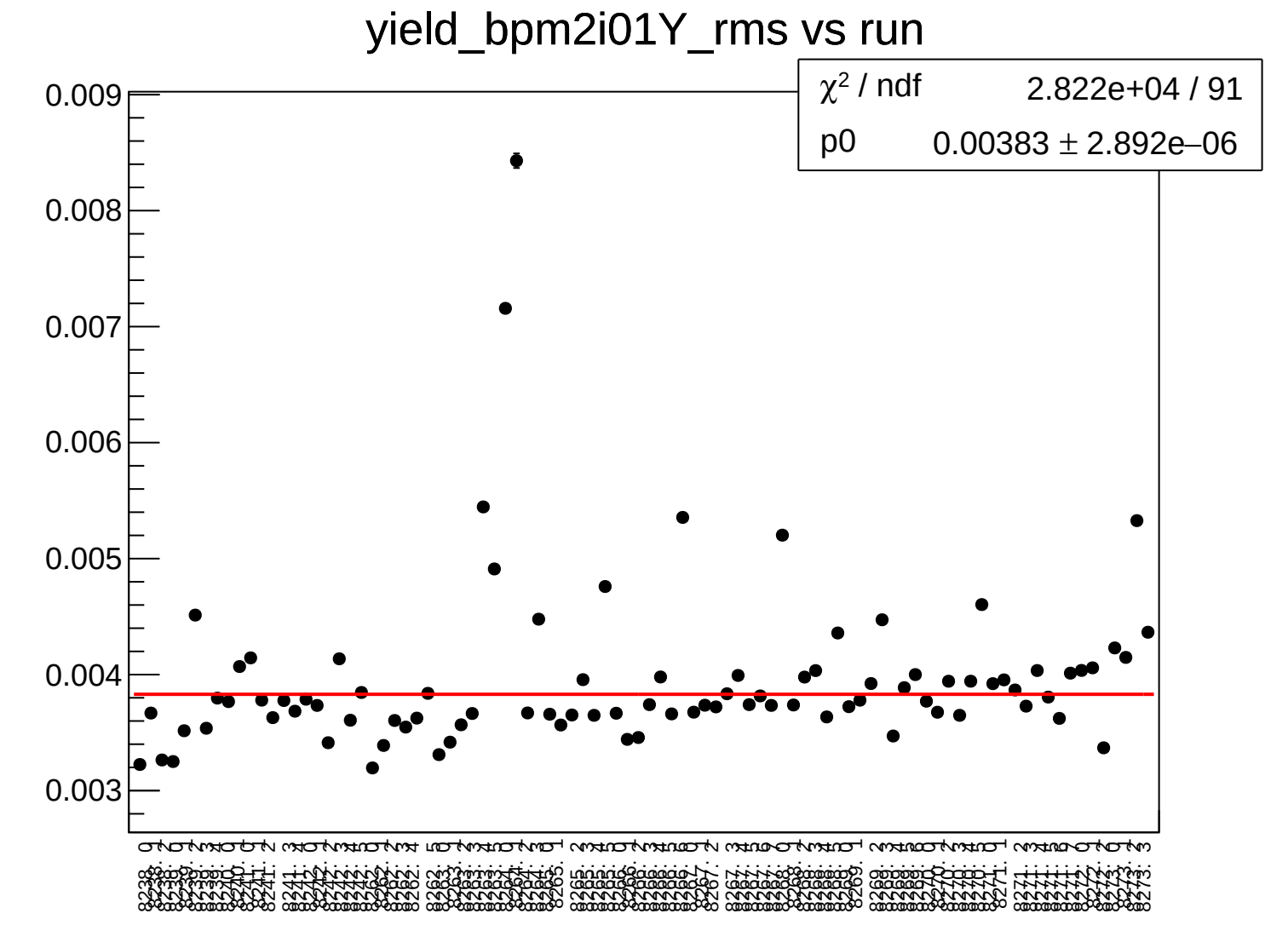

yield_bpm2i01X_mean vs run
χ² / ndf 3.639e+06 / 91
p0 0.8858 ± 5.334e−06
0.895
0.89
0.885
0.88
0.875
0.87
0.865
0.86
0.855
pull
Entries 92
Mean −1318
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
−600

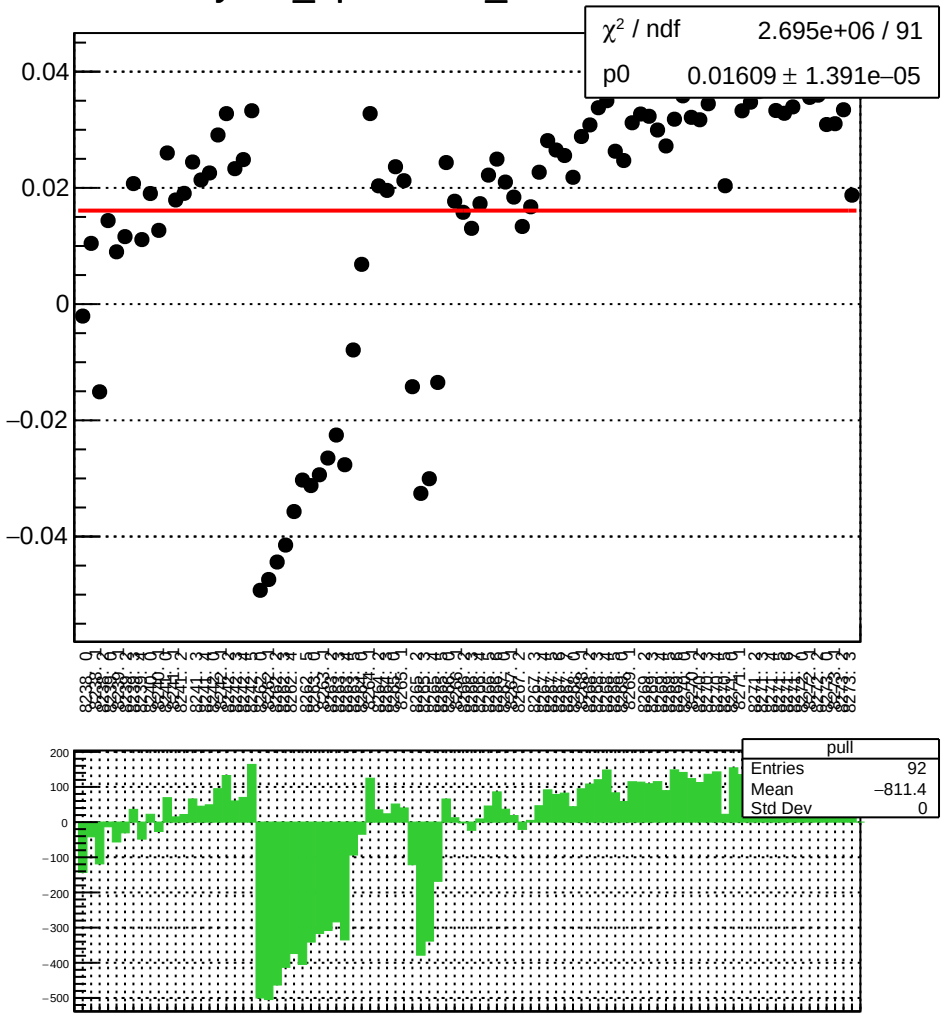

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

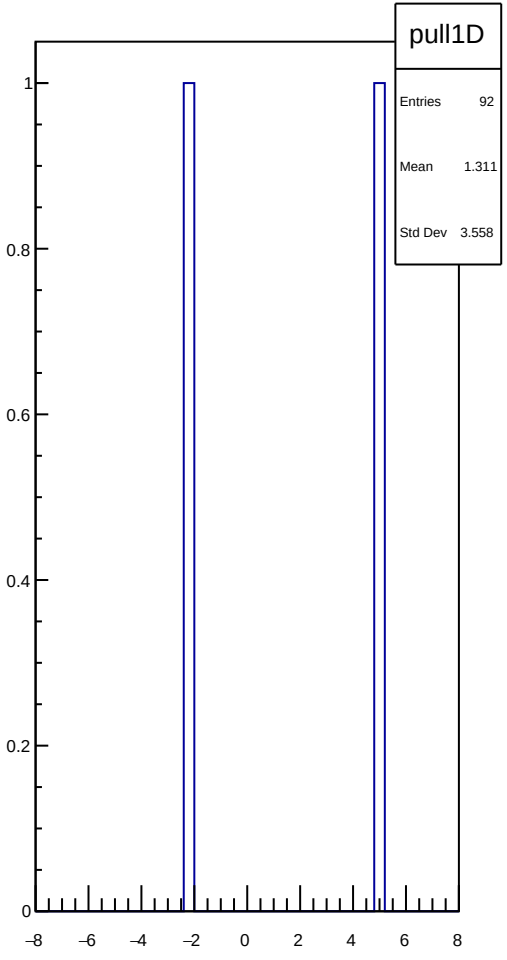

yield_bpm2i01X_rms vs run
$\chi^2$ / ndf 3.595e+04 / 91
p0 0.004985 ± 3.772e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

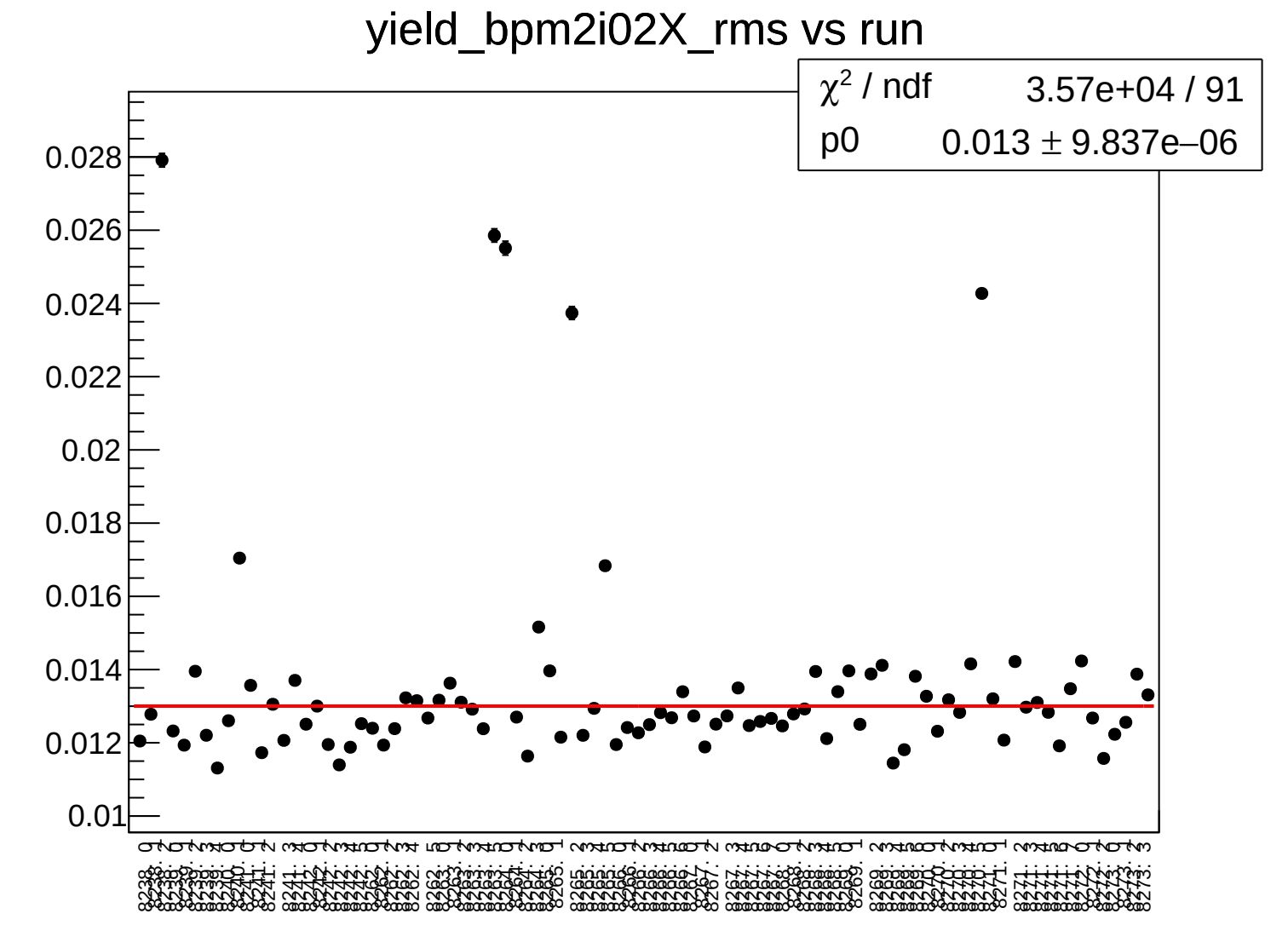

yield_bpm2i01Y_mean vs run
χ² / ndf 2.821e+06 / 91
p0 −4.74 ± 4.089e−06
−4.725
−4.73
−4.735
−4.74
−4.745
−4.75
−4.755
pull
Entries 92
Mean 576.2
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

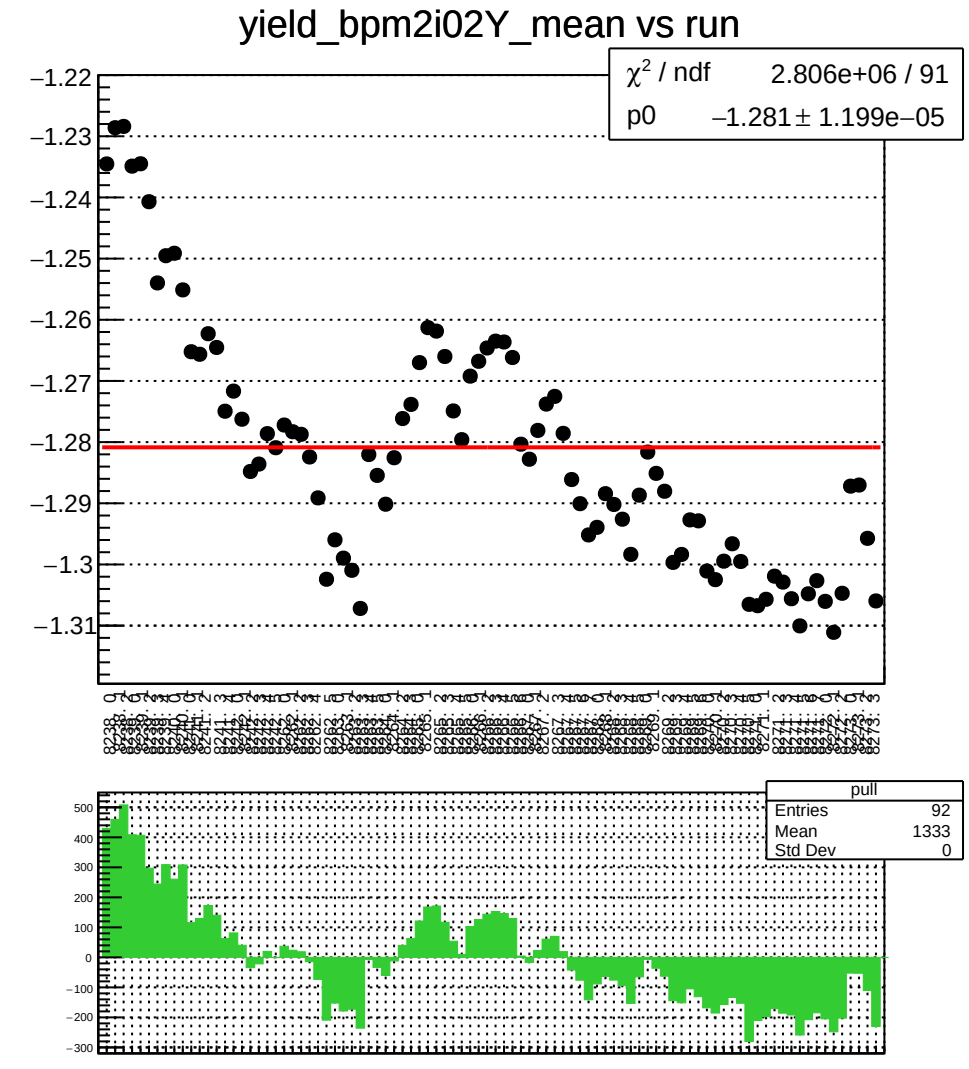

pull1D
Entries 92
Mean −4.741
Std Dev 1.772
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

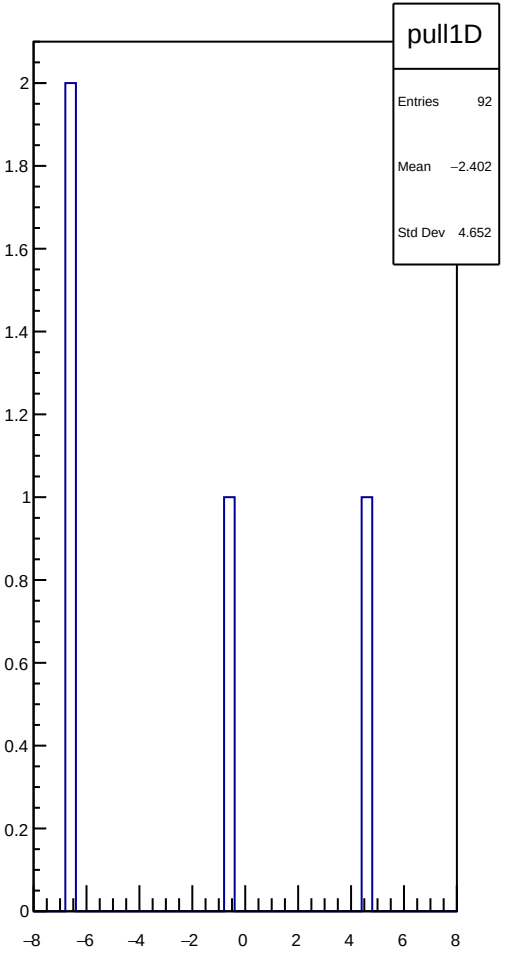

yield_bpm2i01Y_rms vs run
χ² / ndf 2.822e+04 / 91
p0 0.00383 ± 2.892e–06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

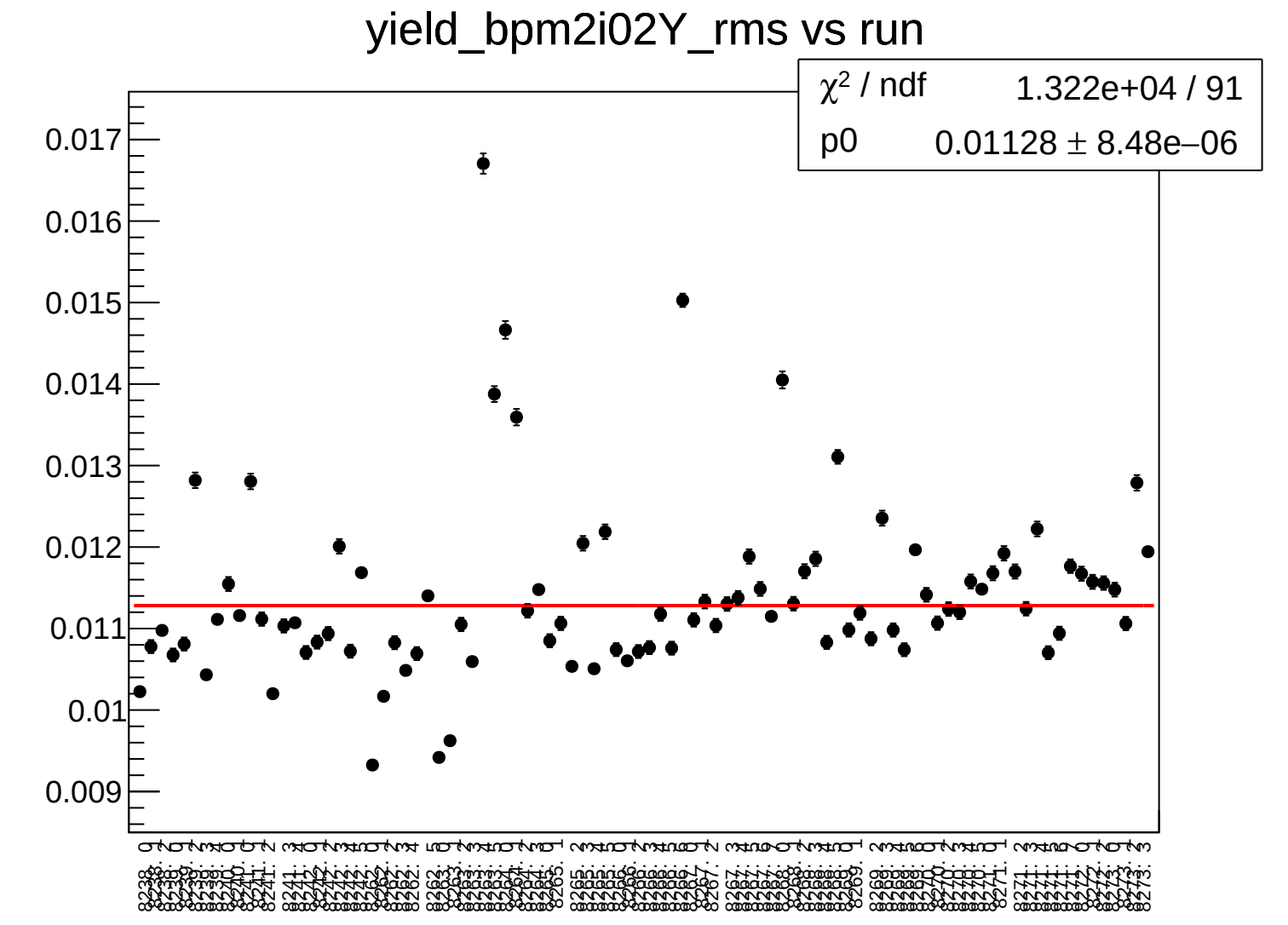

yield_bpm2i02X_mean vs run
χ² / ndf 2.695e+06 / 91
p0 0.01609 ± 1.391e–05
0.04
0.02
0
–0.02
–0.04
pull
Entries 92
Mean –811.4
Std Dev 0
200
100
0
–100
–200
–300
–400
–500

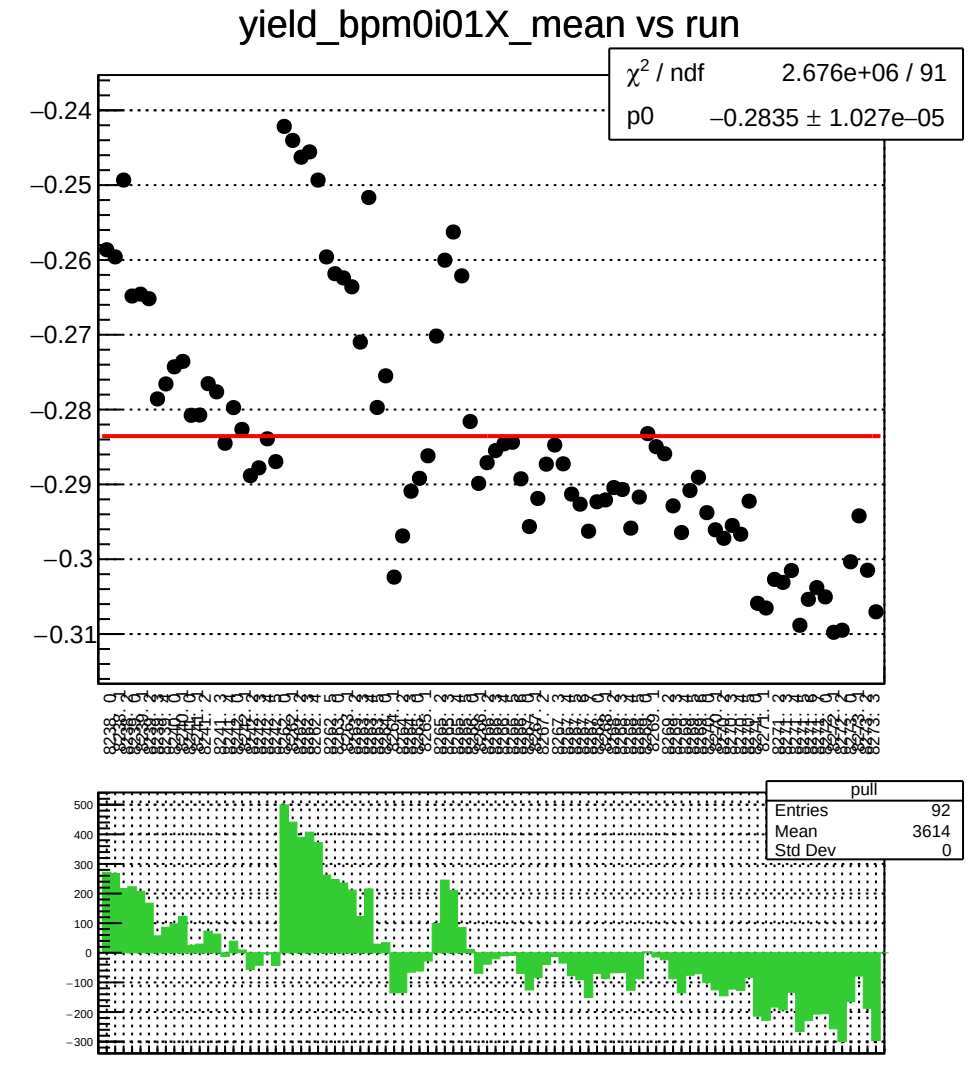

pull1D
Entries 92
Mean 1.311
Std Dev 3.558
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

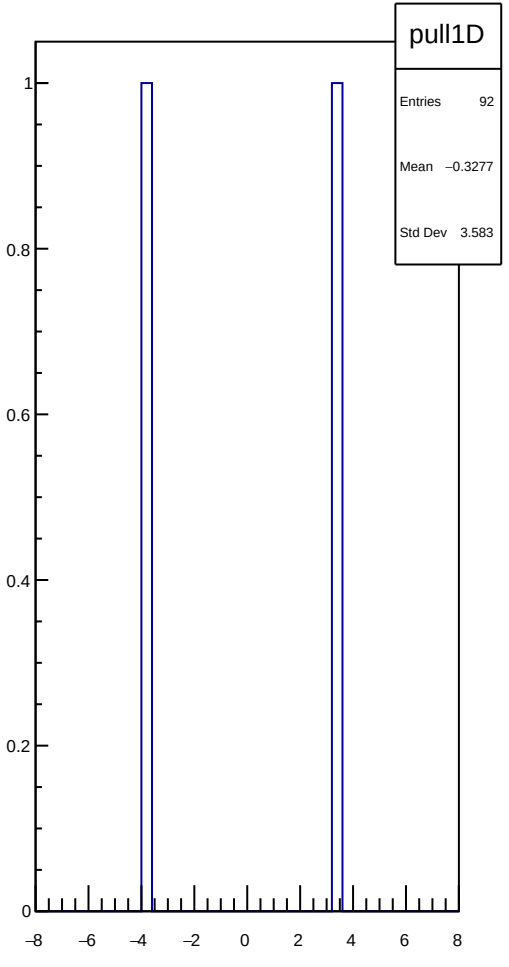

yield_bpm2i02X_rms vs run
$\chi^2$ / ndf 3.57e+04 / 91
p0 0.013 ± 9.837e–06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

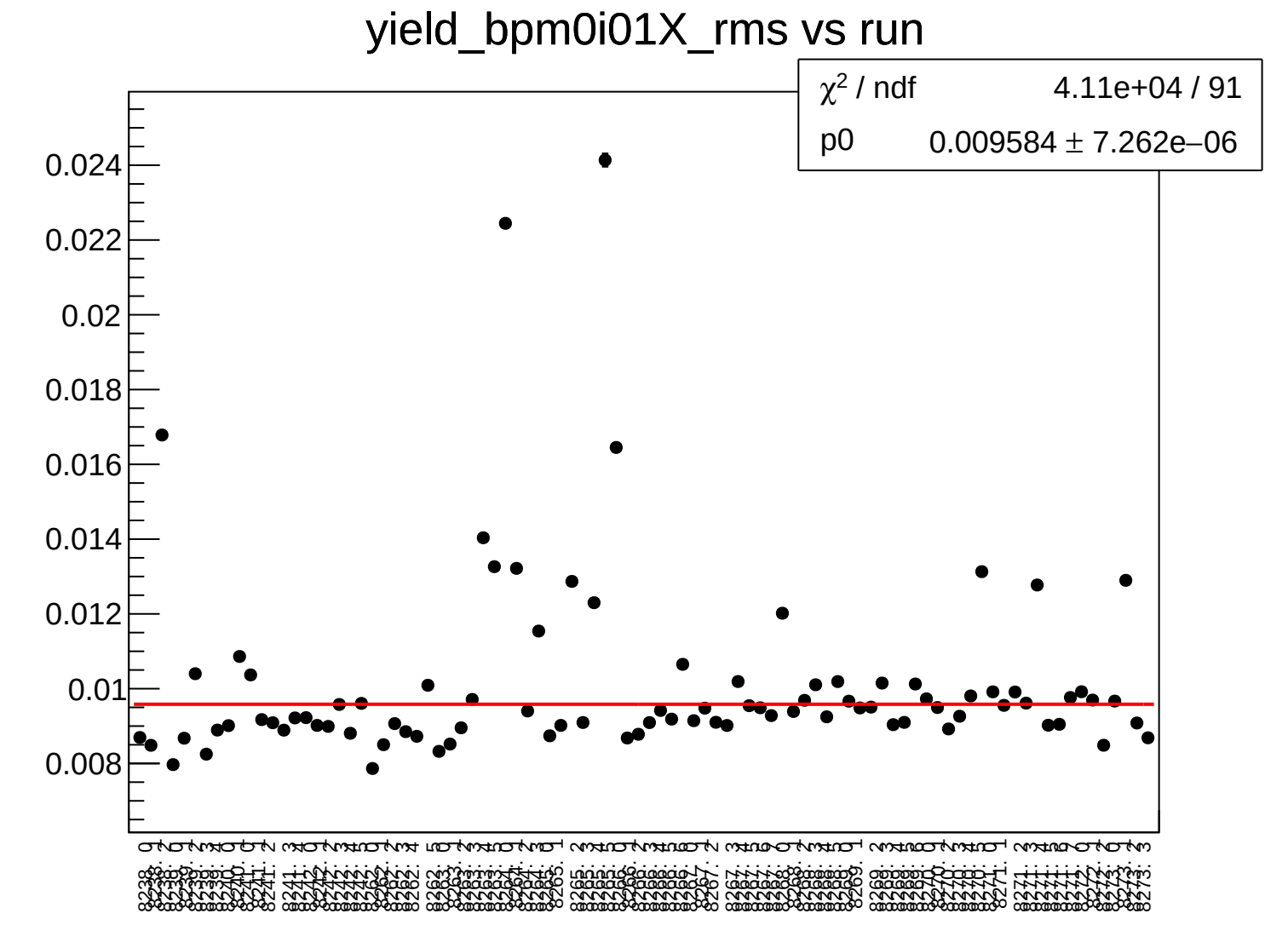

yield_bpm2i02Y_mean vs run
χ² / ndf 2.806e+06 / 91
p0 −1.281 ± 1.199e−05
−1.22
−1.23
−1.24
−1.25
−1.26
−1.27
−1.28
−1.29
−1.3
−1.31
pull
Entries 92
Mean 1333
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

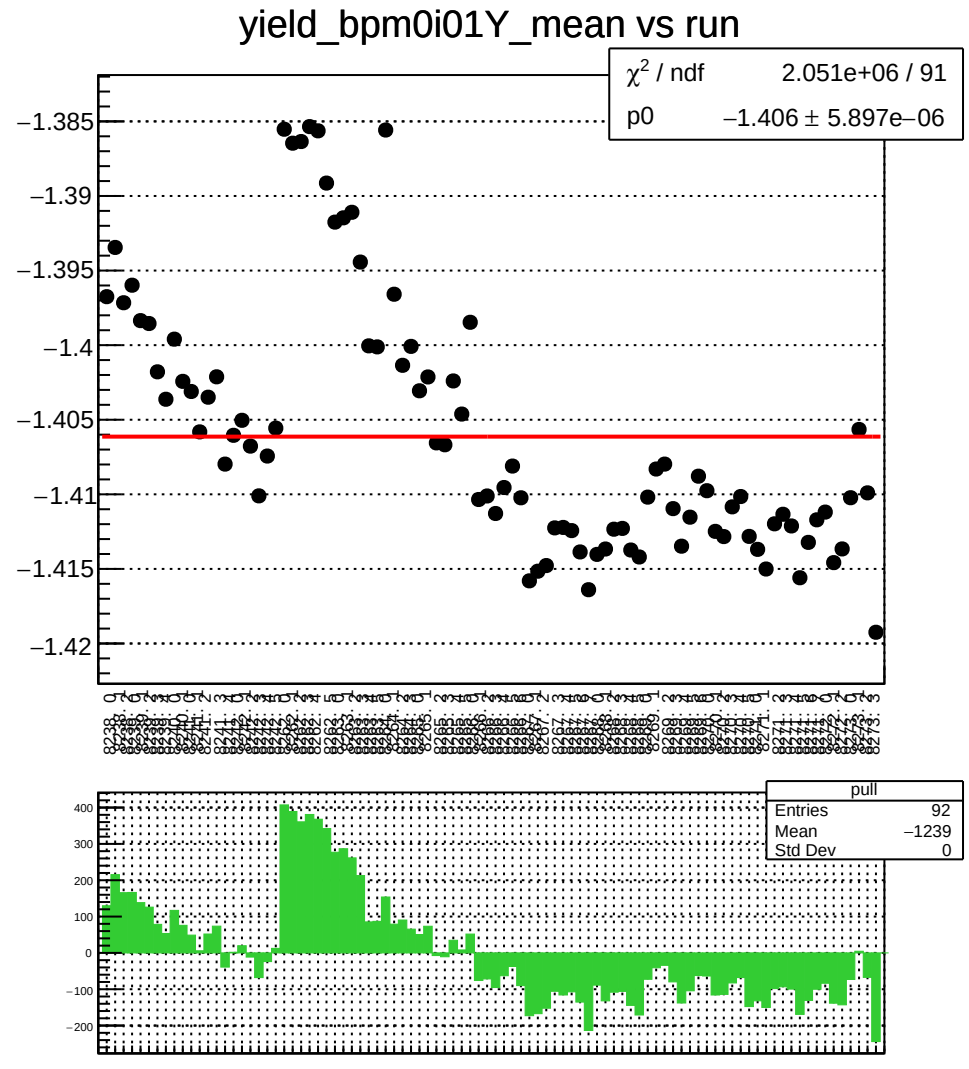

pull1D
Entries 92
Mean −2.402
Std Dev 4.652
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

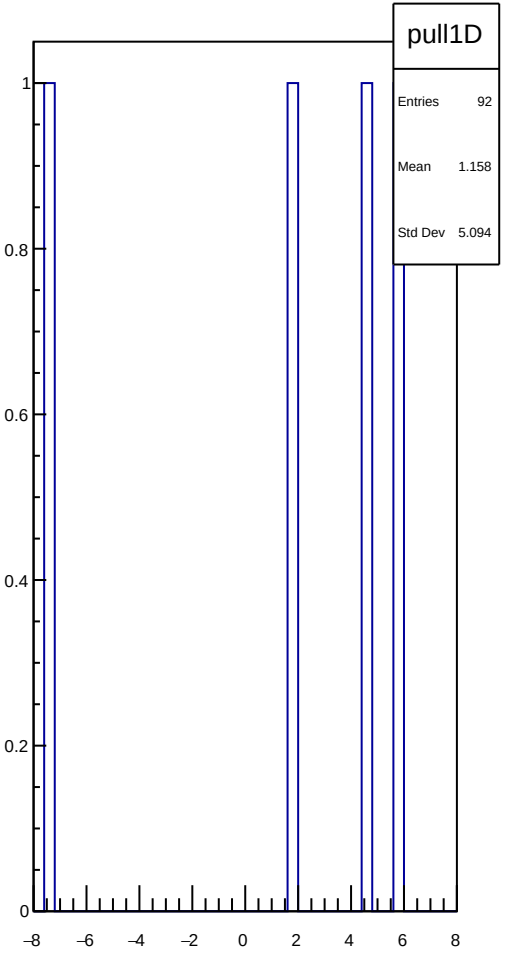

yield_bpm2i02Y_rms vs run
χ² / ndf 1.322e+04 / 91
p0 0.01128 ± 8.48e−06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

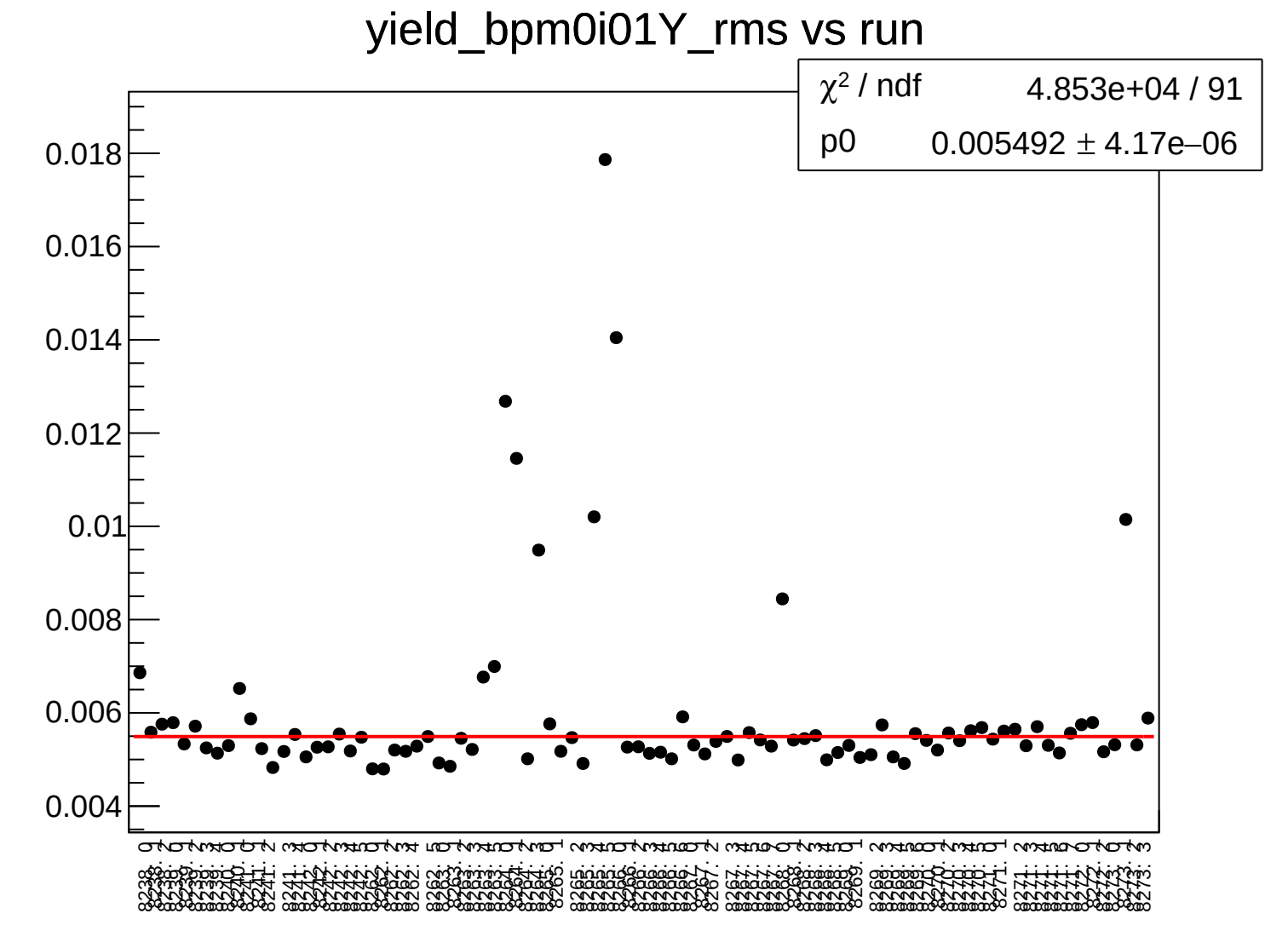

yield_bpm0i01X_mean vs run
χ² / ndf 2.676e+06 / 91
p0 −0.2835 ± 1.027e−05
−0.24
−0.25
−0.26
−0.27
−0.28
−0.29
−0.3
−0.31
pull
Entries 92
Mean 3614
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

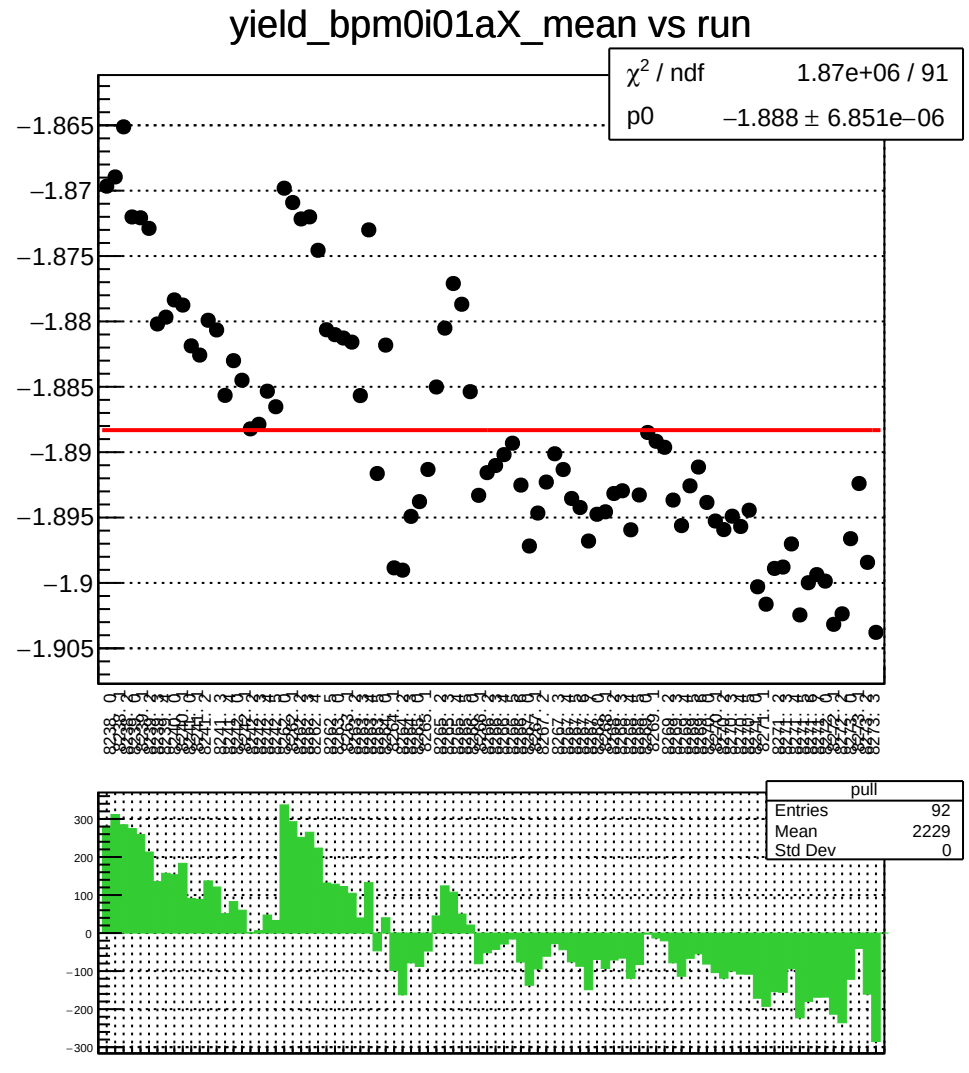

pull1D
Entries 92
Mean −0.3277
Std Dev 3.583
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

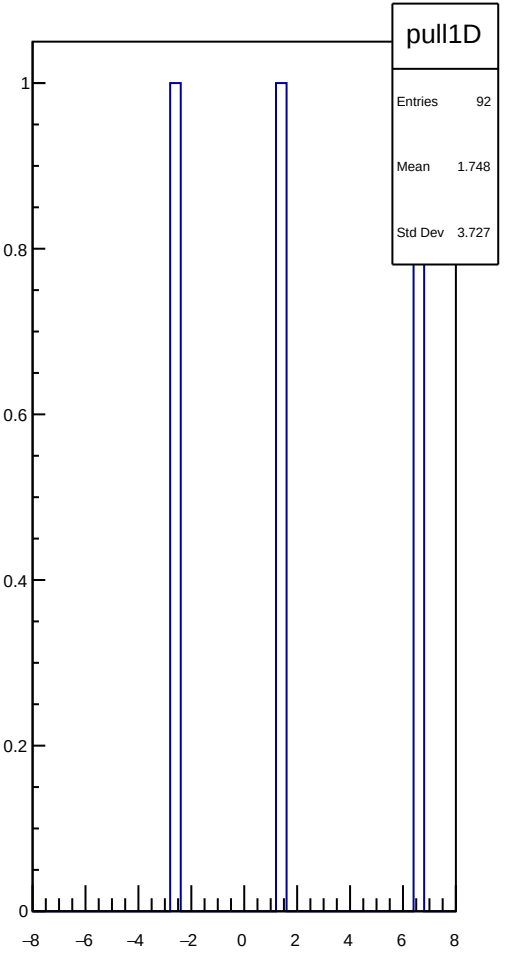

yield_bpm0i01X_rms vs run
χ² / ndf 4.11e+04 / 91
p0 0.009584 ± 7.262e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

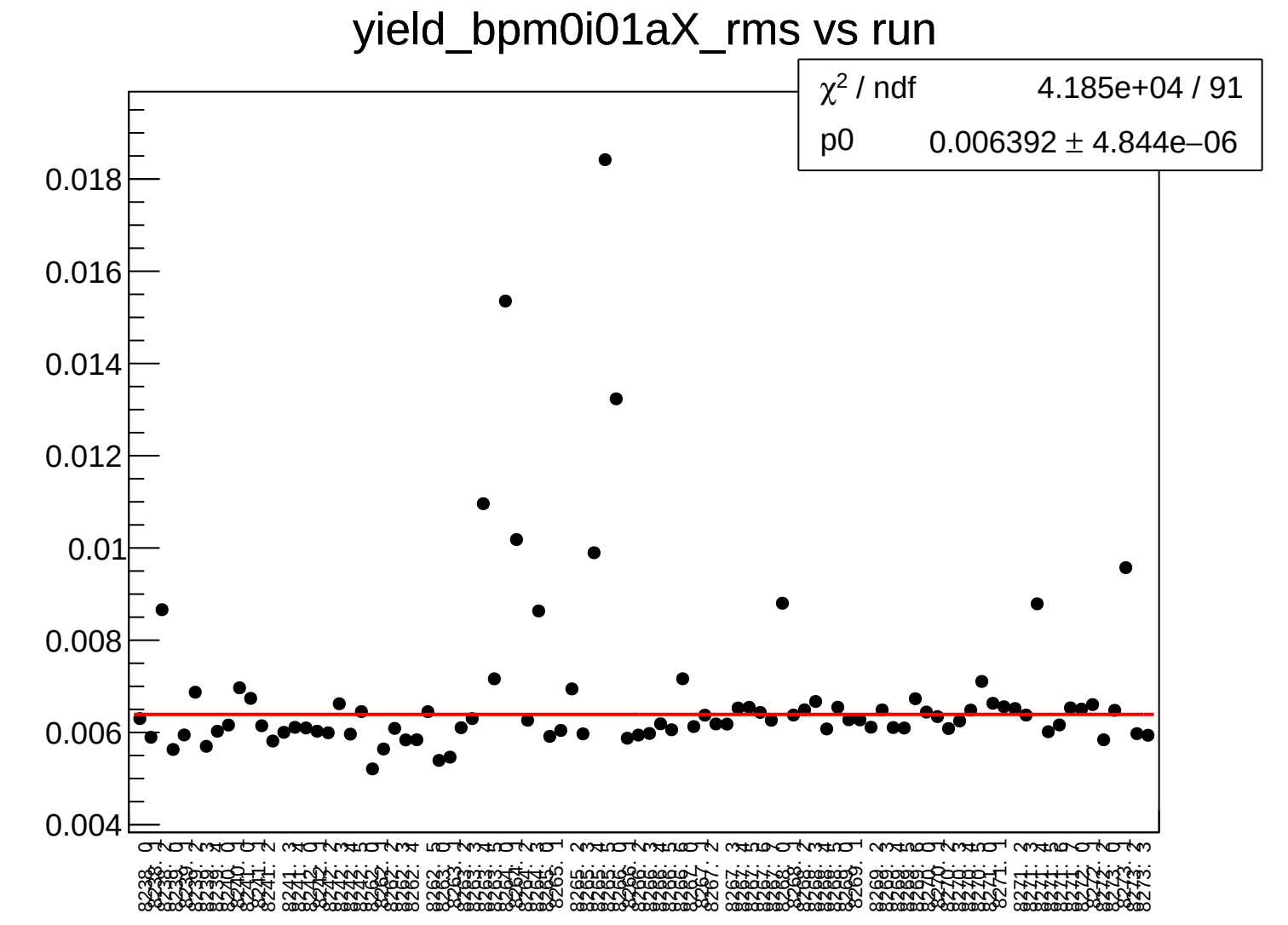

yield_bpm0i01Y_mean vs run
χ² / ndf 2.051e+06 / 91
p0 −1.406 ± 5.897e−06
−1.385
−1.39
−1.395
−1.4
−1.405
−1.41
−1.415
−1.42
pull
Entries 92
Mean −1239
Std Dev 0
400
300
200
100
0
−100
−200

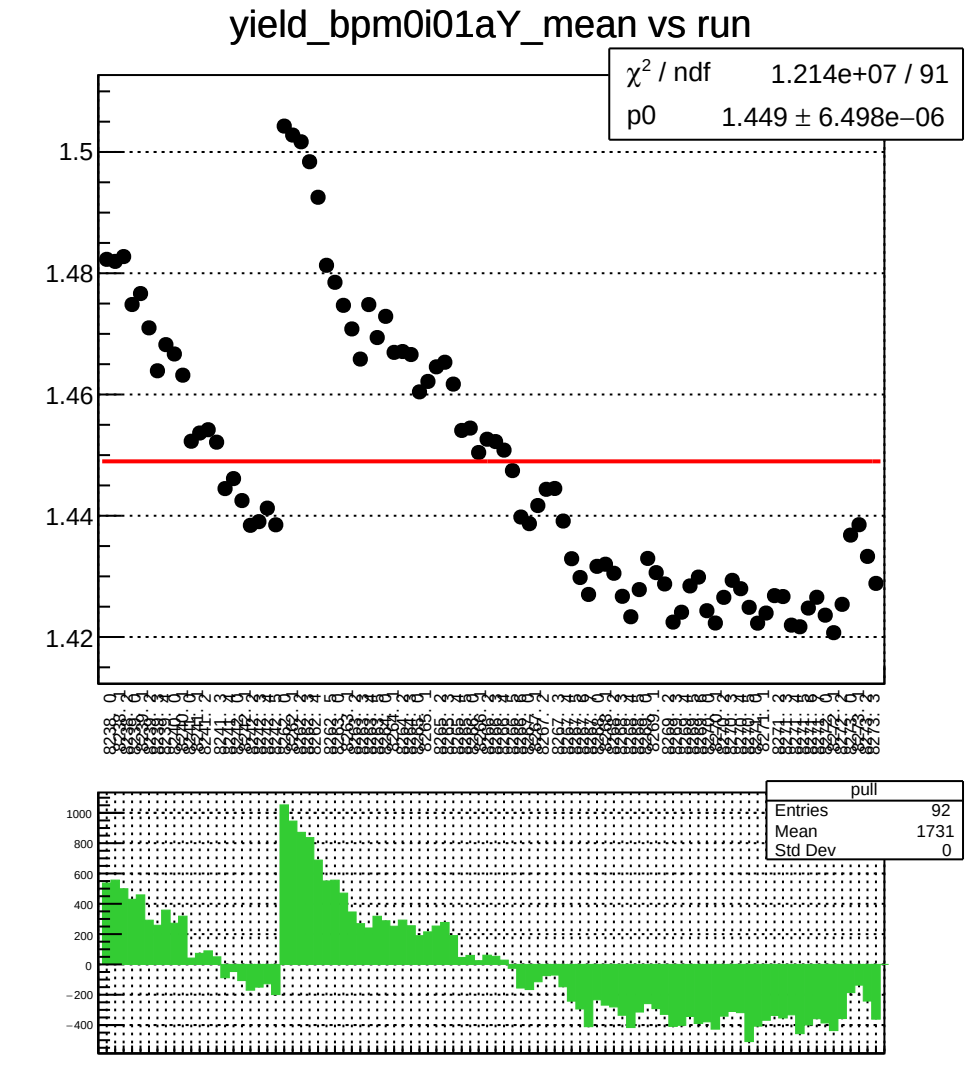

pull1D
Entries 92
Mean 1.158
Std Dev 5.094
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

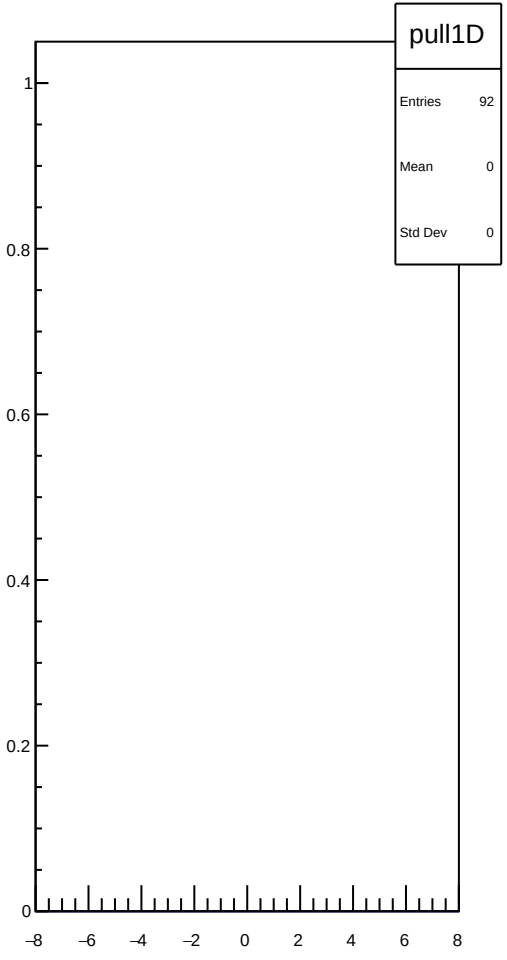

yield_bpm0i01Y_rms vs run
χ² / ndf 4.853e+04 / 91
p0 0.005492 ± 4.17e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

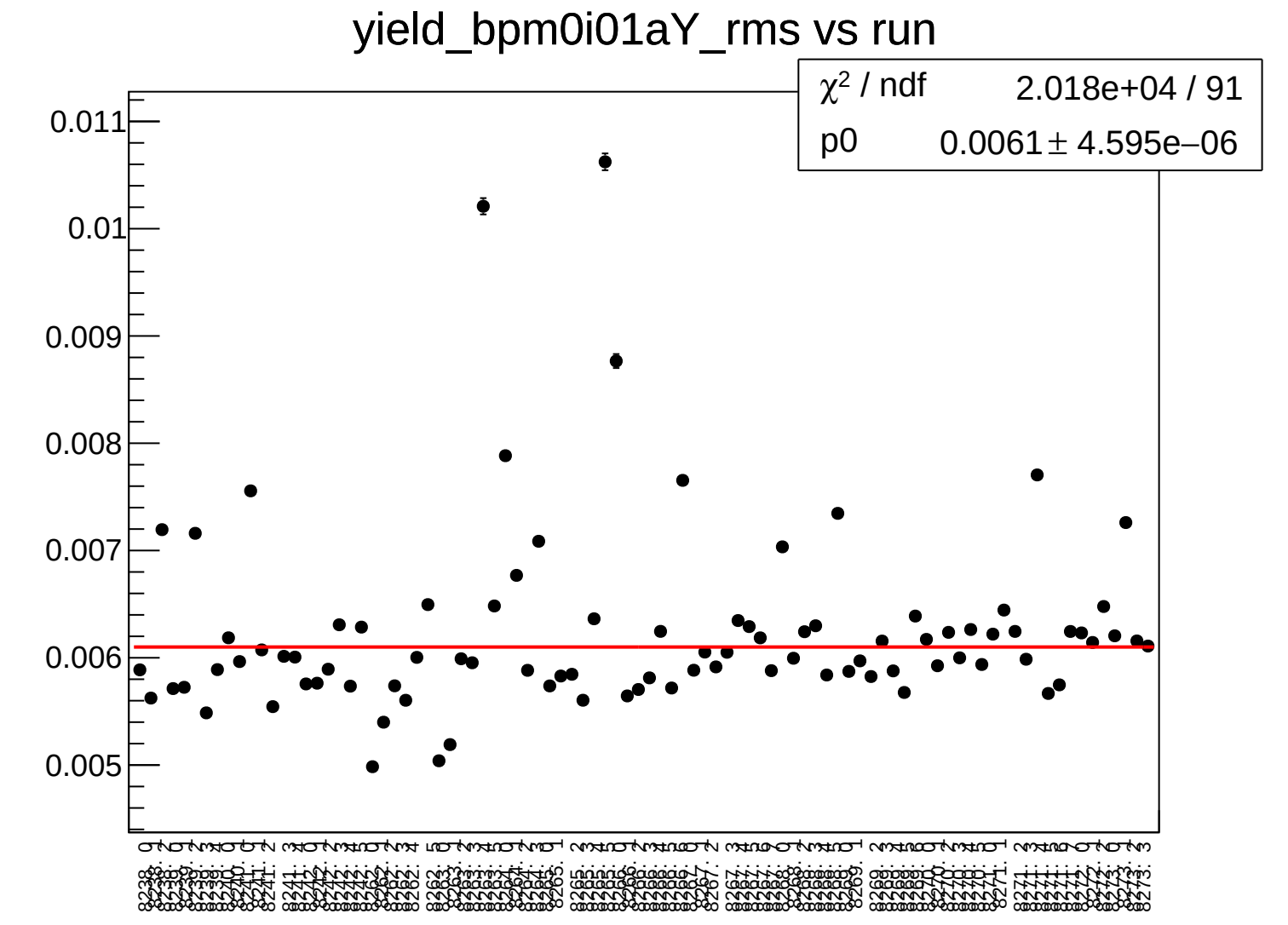

yield_bpm0i01aX_mean vs run
χ² / ndf 1.87e+06 / 91
p0 −1.888 ± 6.851e−06
−1.865
−1.87
−1.875
−1.88
−1.885
−1.89
−1.895
−1.9
−1.905
pull
Entries 92
Mean 2229
Std Dev 0
300
200
100
0
−100
−200
−300

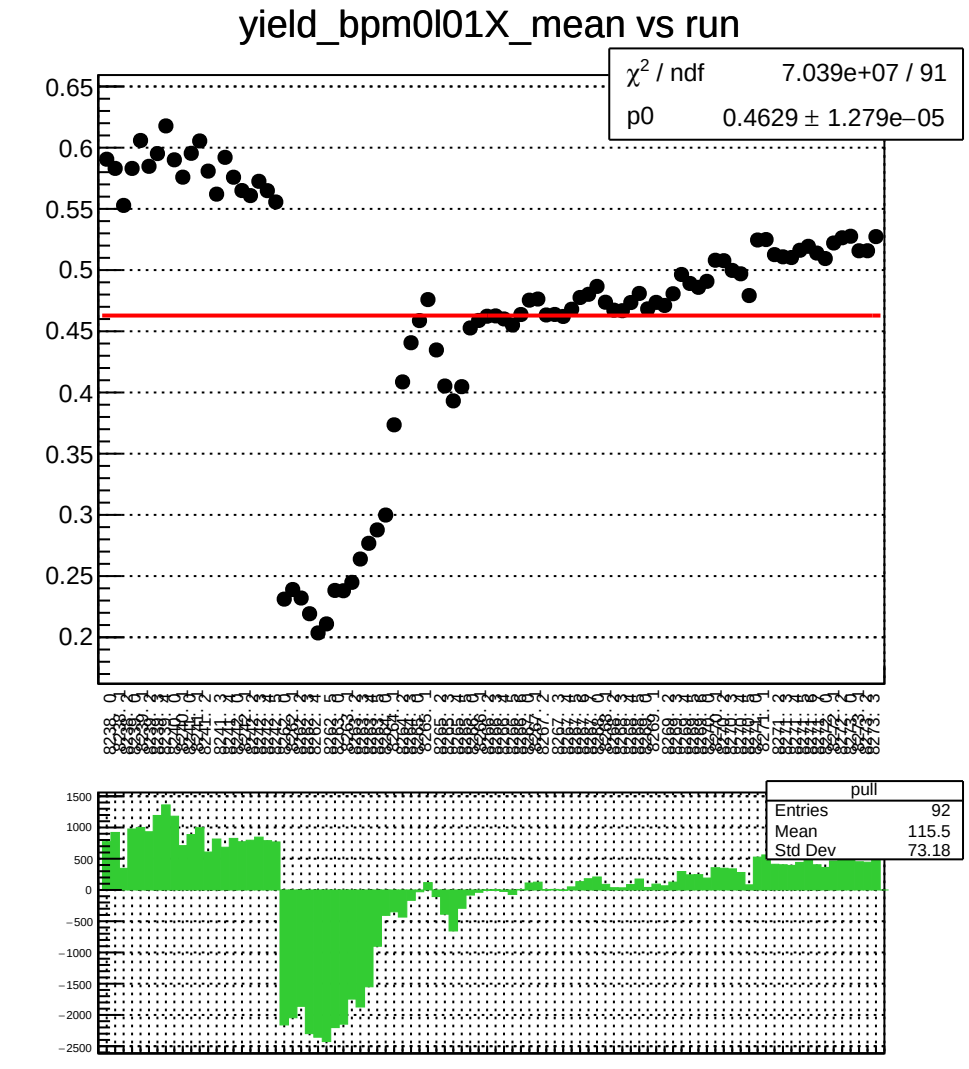

pull1D
Entries 92
Mean 1.748
Std Dev 3.727
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

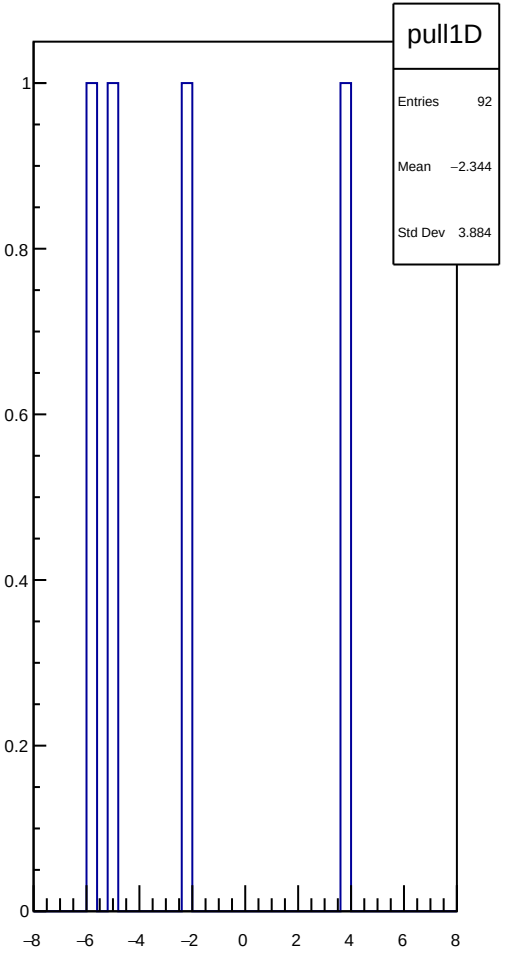

yield_bpm0i01aX_rms vs run
χ² / ndf 4.185e+04 / 91
p0 0.006392 ± 4.844e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

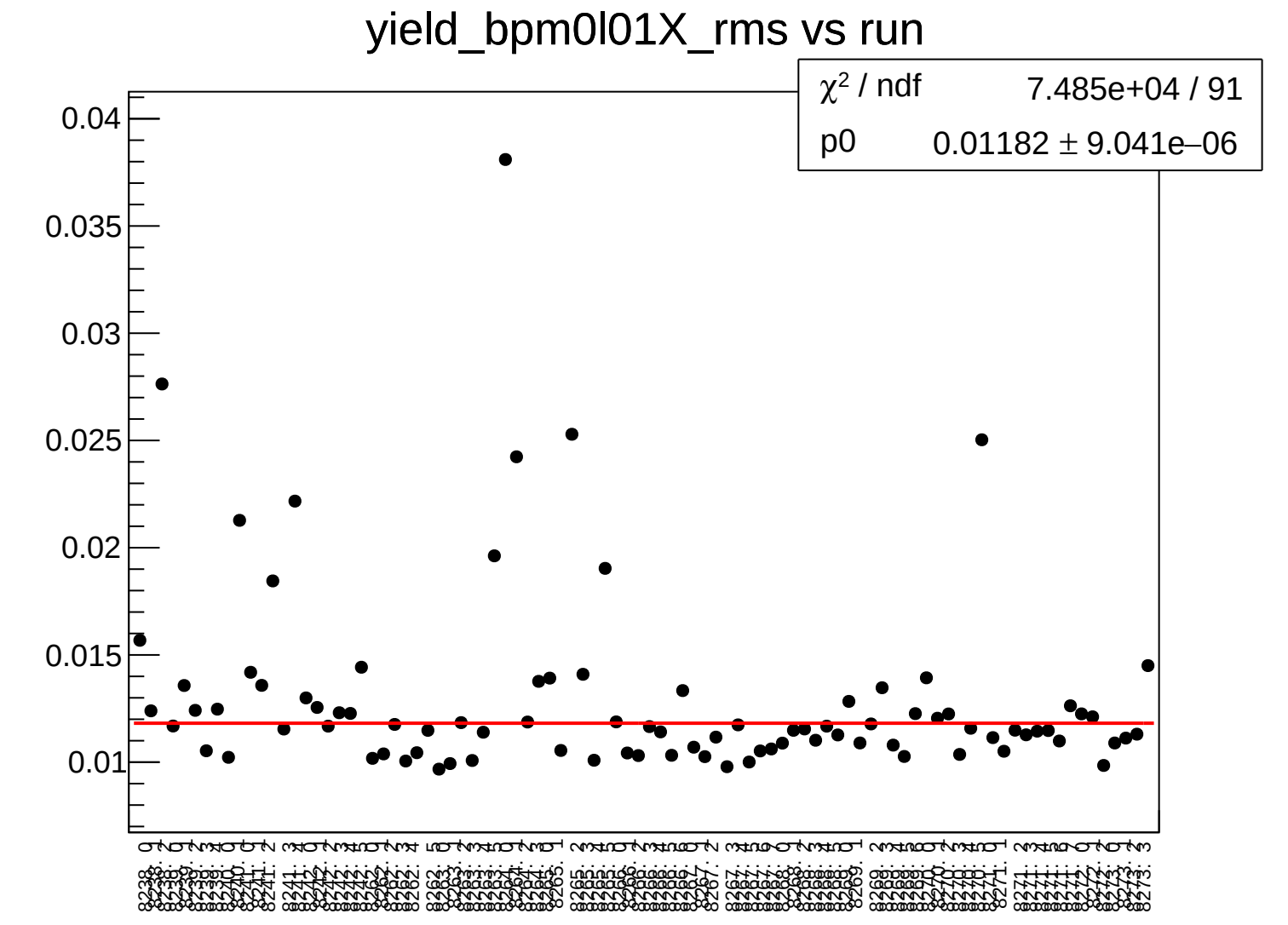

yield_bpm0i01aY_mean vs run
χ² / ndf 1.214e+07 / 91
p0 1.449 ± 6.498e−06
1.5
1.48
1.46
1.44
1.42
pull
Entries 92
Mean 1731
Std Dev 0
1000
800
600
400
200
0
−200
−400

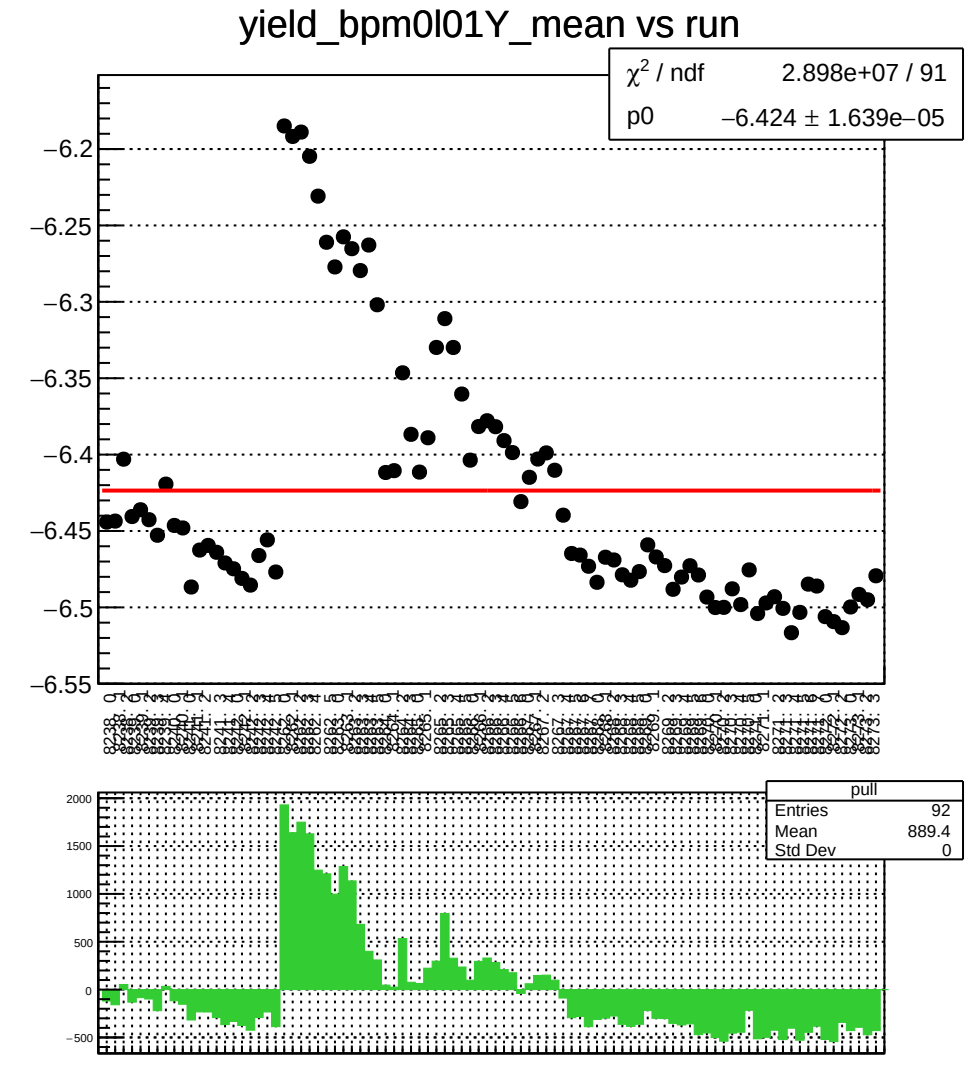

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

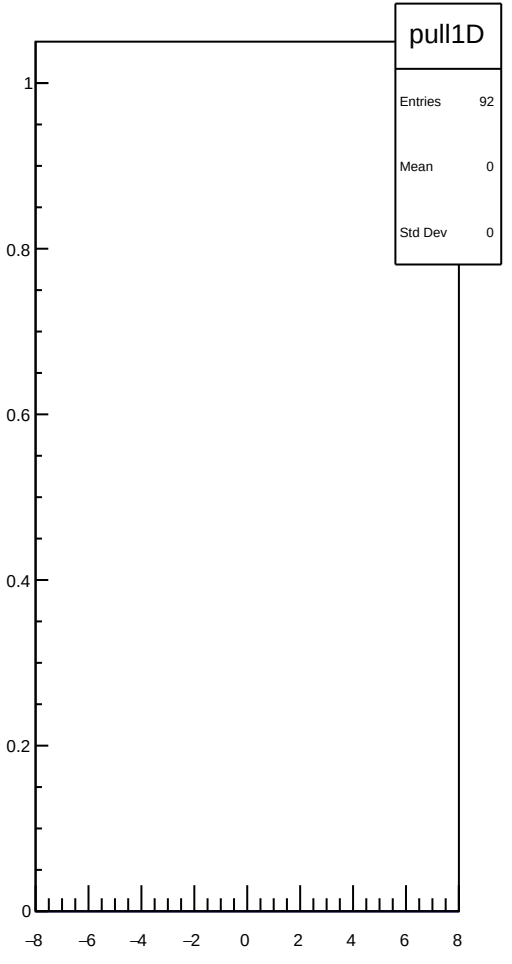

yield_bpm0i01aY_rms vs run
χ² / ndf 2.018e+04 / 91
p0 0.0061 ± 4.595e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005

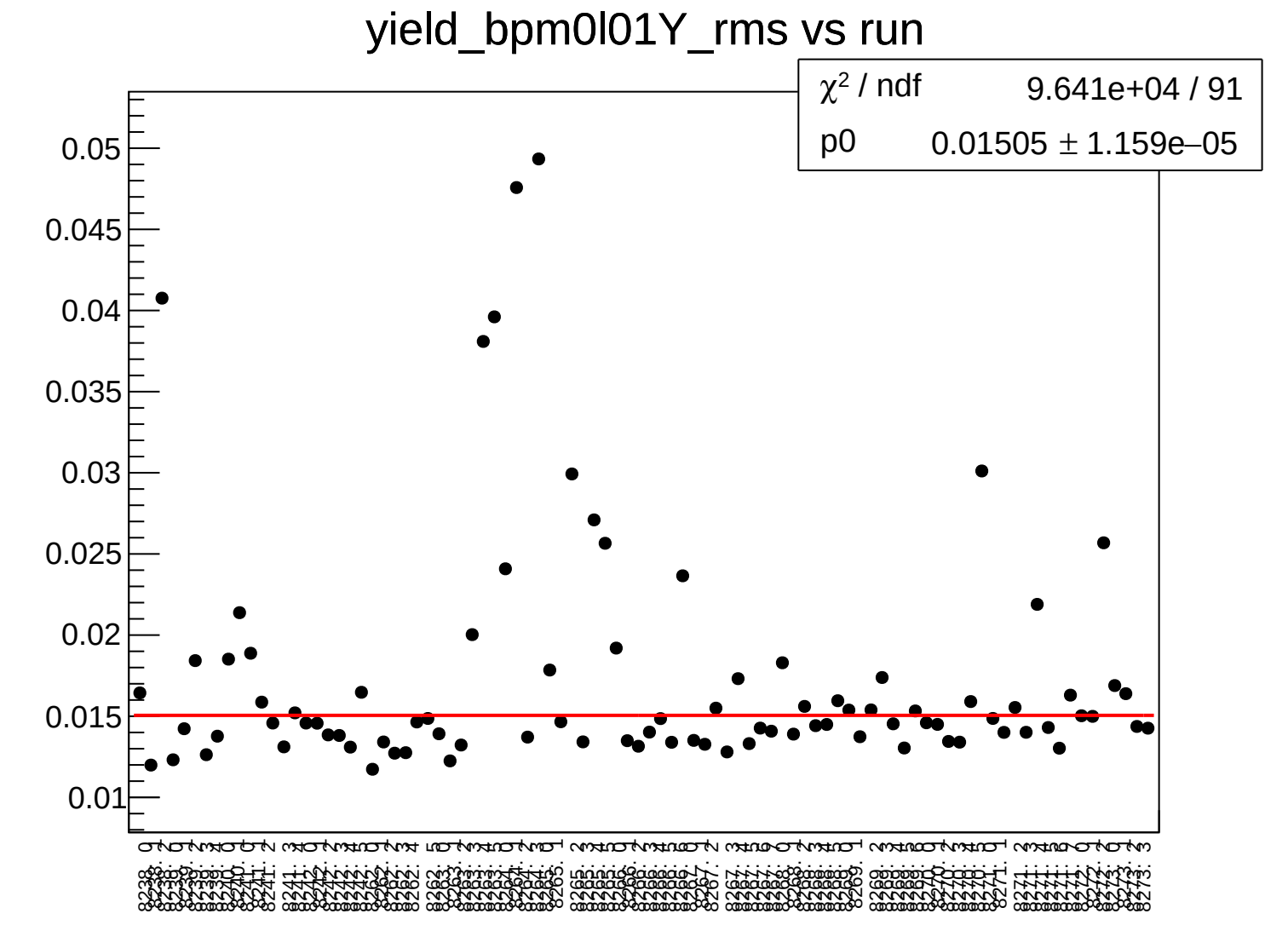

yield_bpm0l01X_mean vs run
χ² / ndf 7.039e+07 / 91
p0 0.4629 ± 1.279e−05
pull
Entries 92
Mean 115.5
Std Dev 73.18

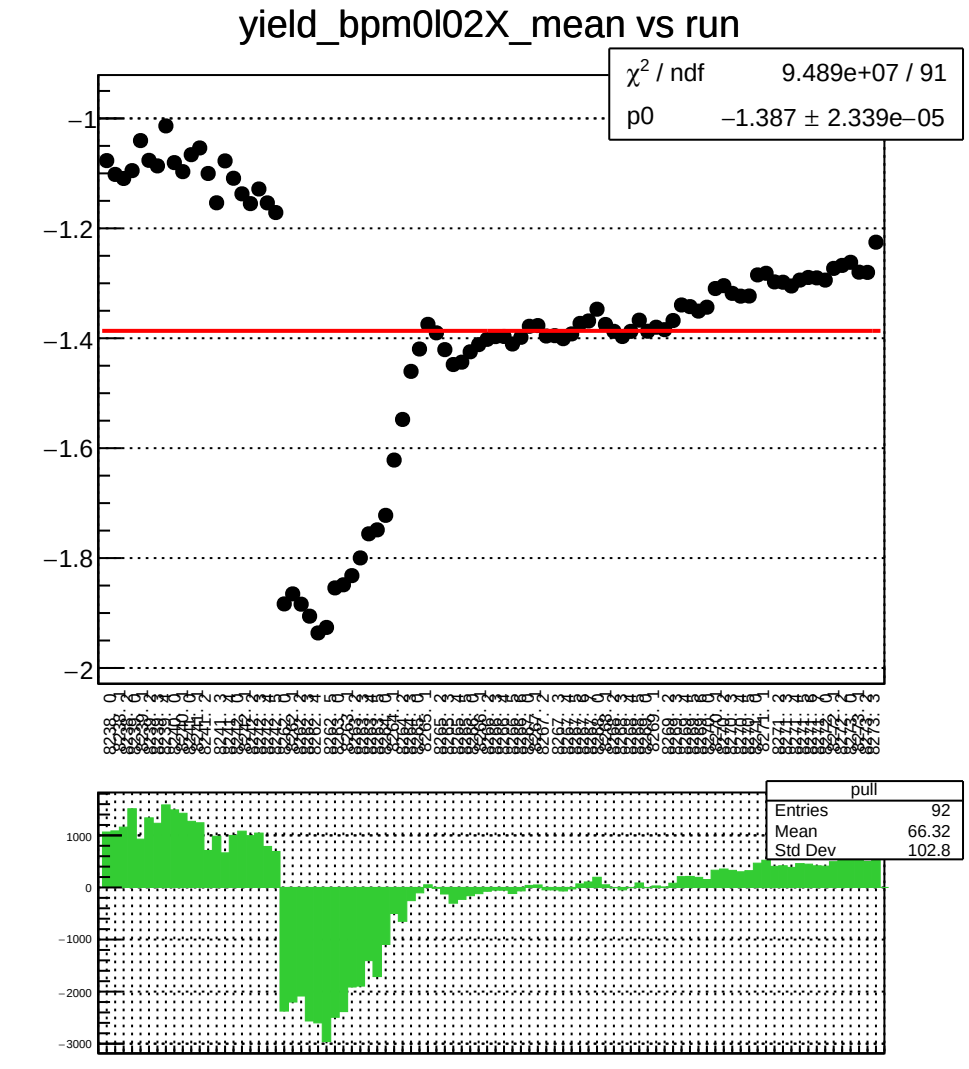

pull1D
Entries 92
Mean −2.344
Std Dev 3.884

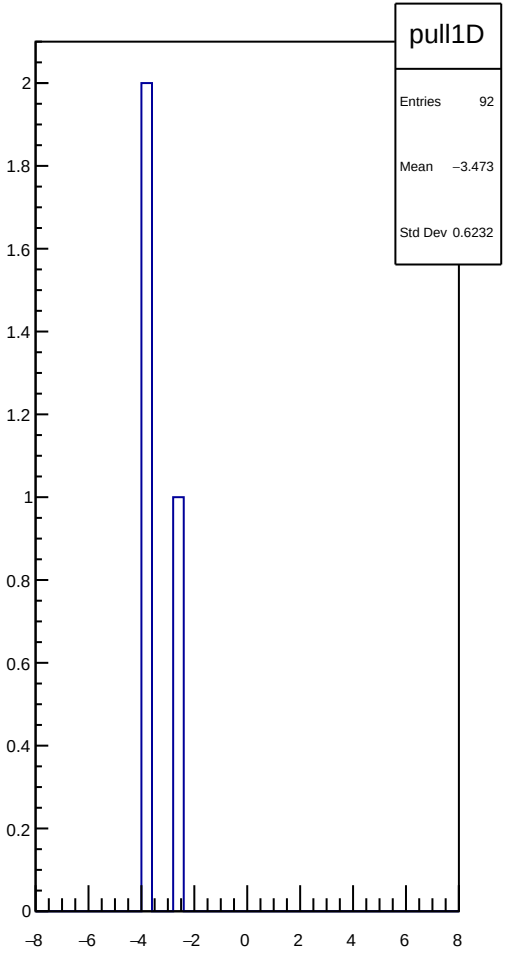

yield_bpm0l01X_rms vs run
χ² / ndf 7.485e+04 / 91
p0 0.01182 ± 9.041e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

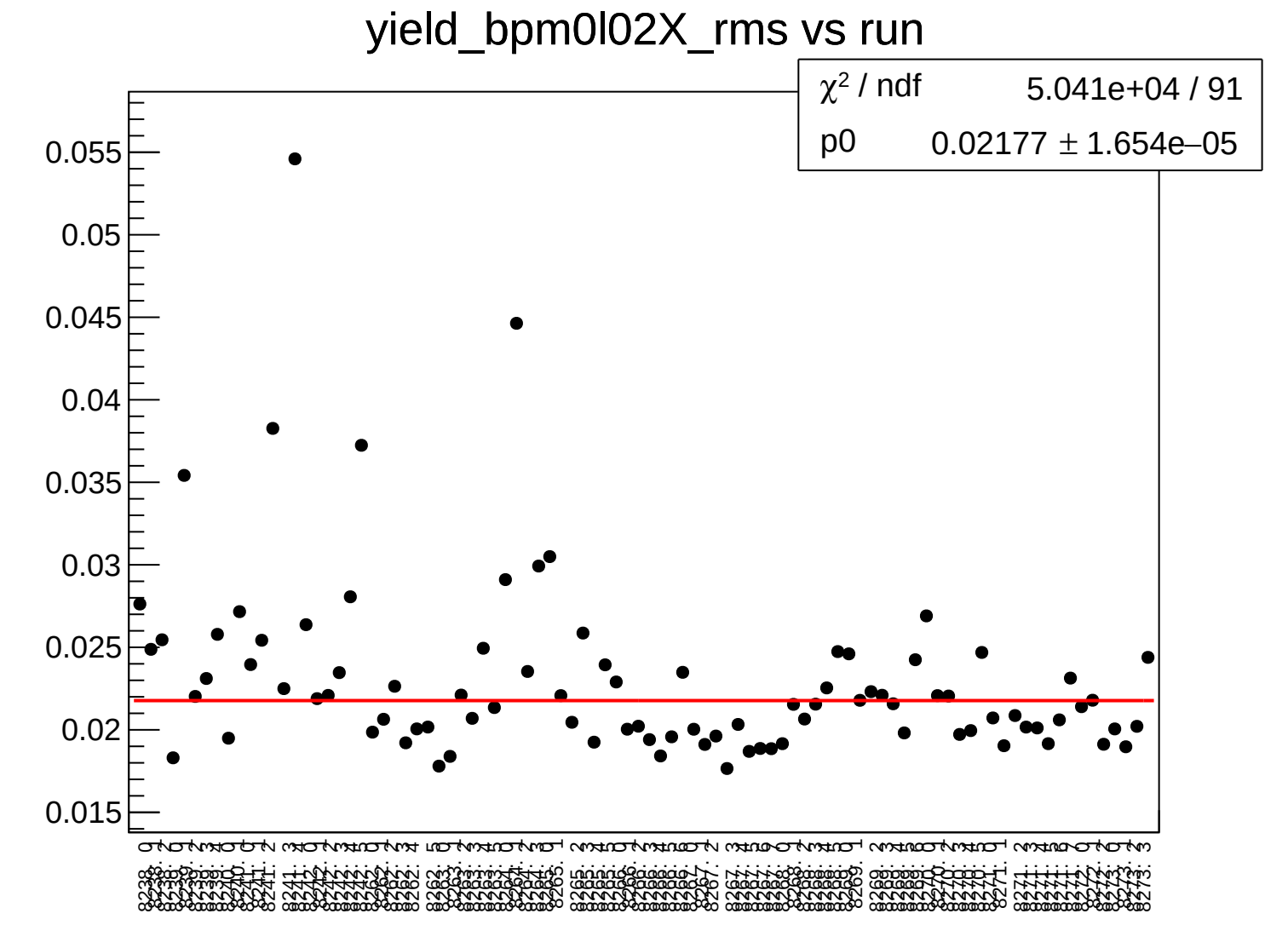

yield_bpm0l01Y_mean vs run
χ² / ndf 2.898e+07 / 91
p0 −6.424 ± 1.639e−05
−6.2
−6.25
−6.3
−6.35
−6.4
−6.45
−6.5
−6.55
pull
Entries 92
Mean 889.4
Std Dev 0
2000
1500
1000
500
0
−500

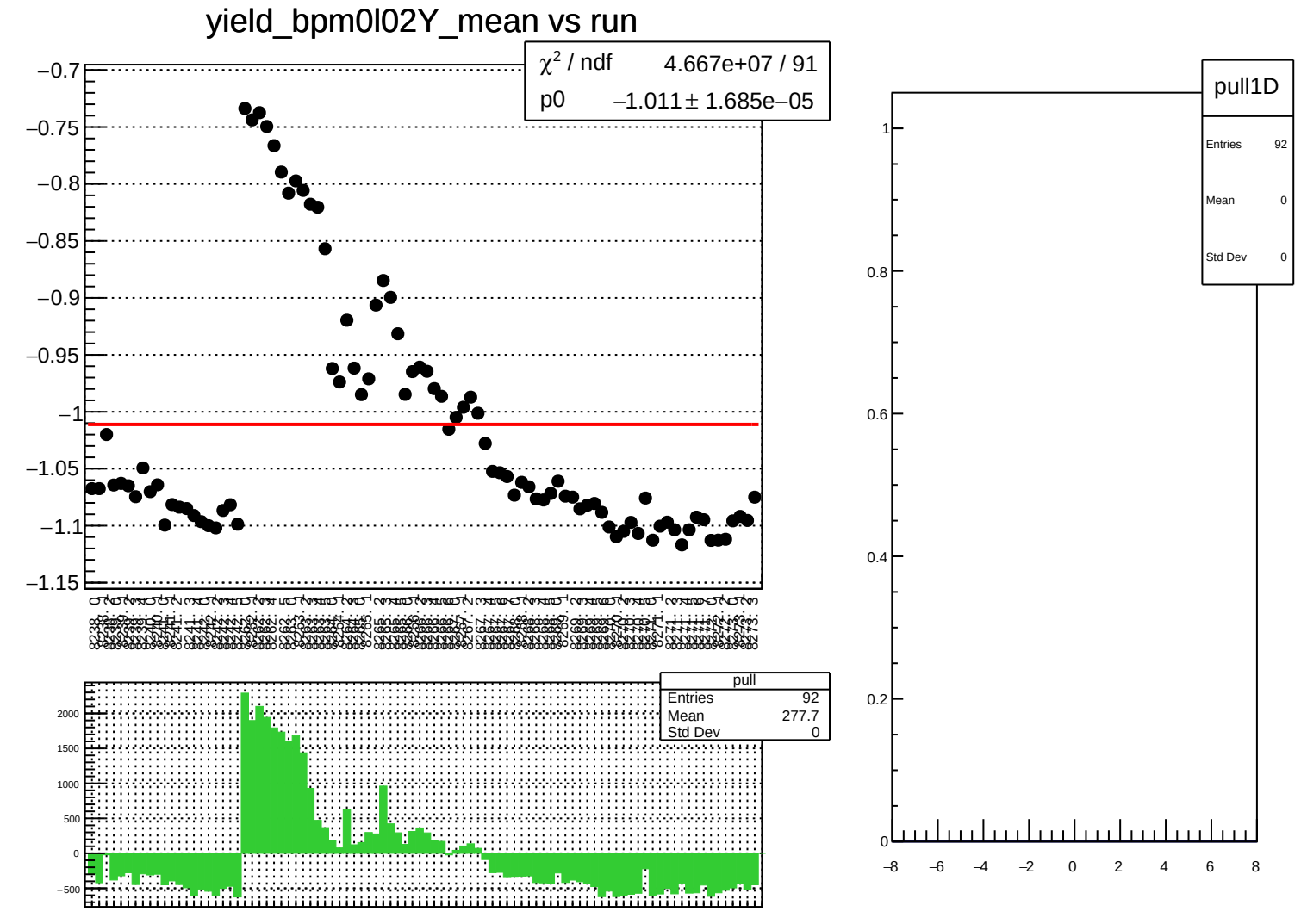

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

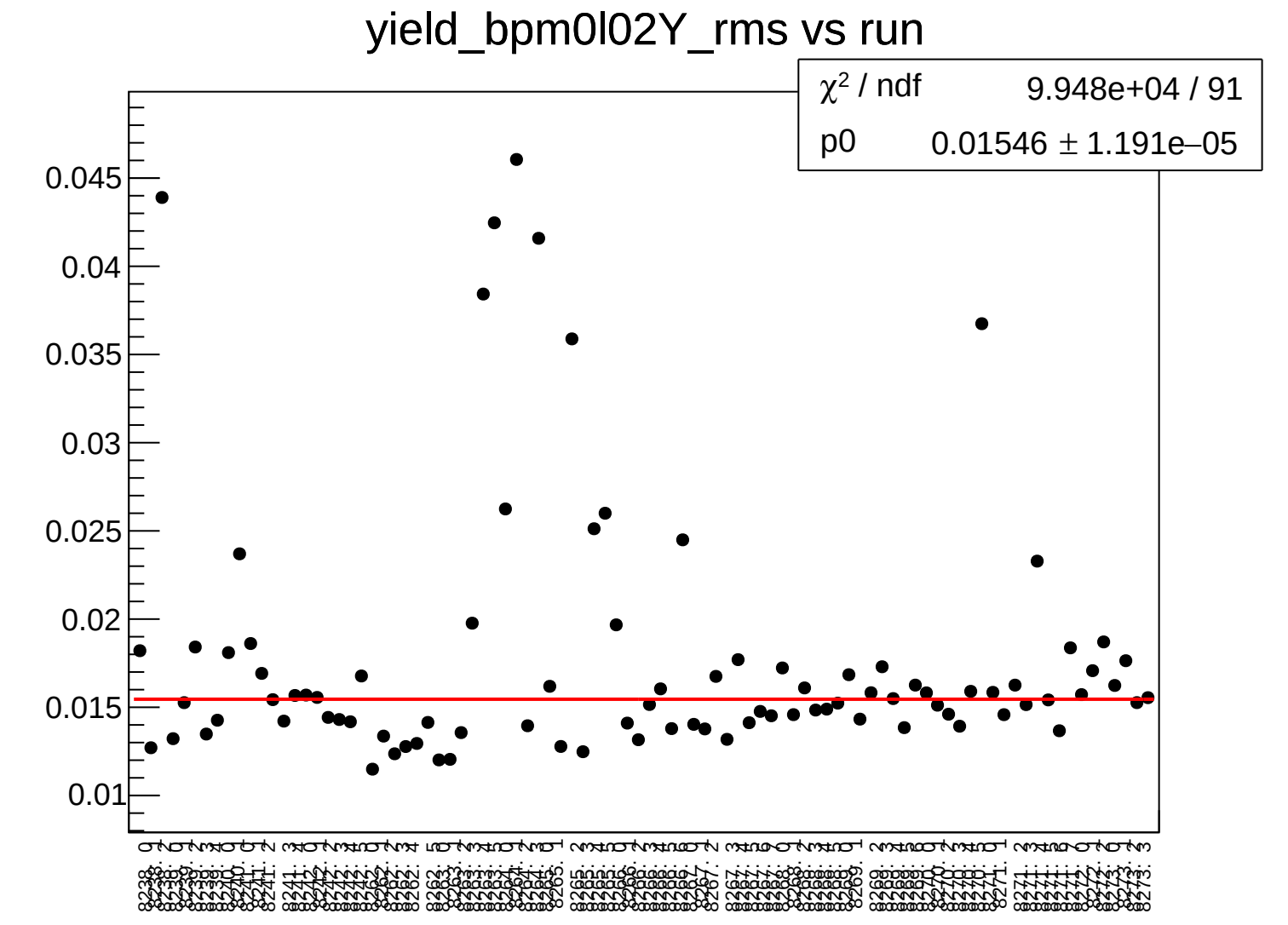

yield_bpm0l01Y_rms vs run
χ² / ndf 9.641e+04 / 91
p0 0.01505 ± 1.159e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

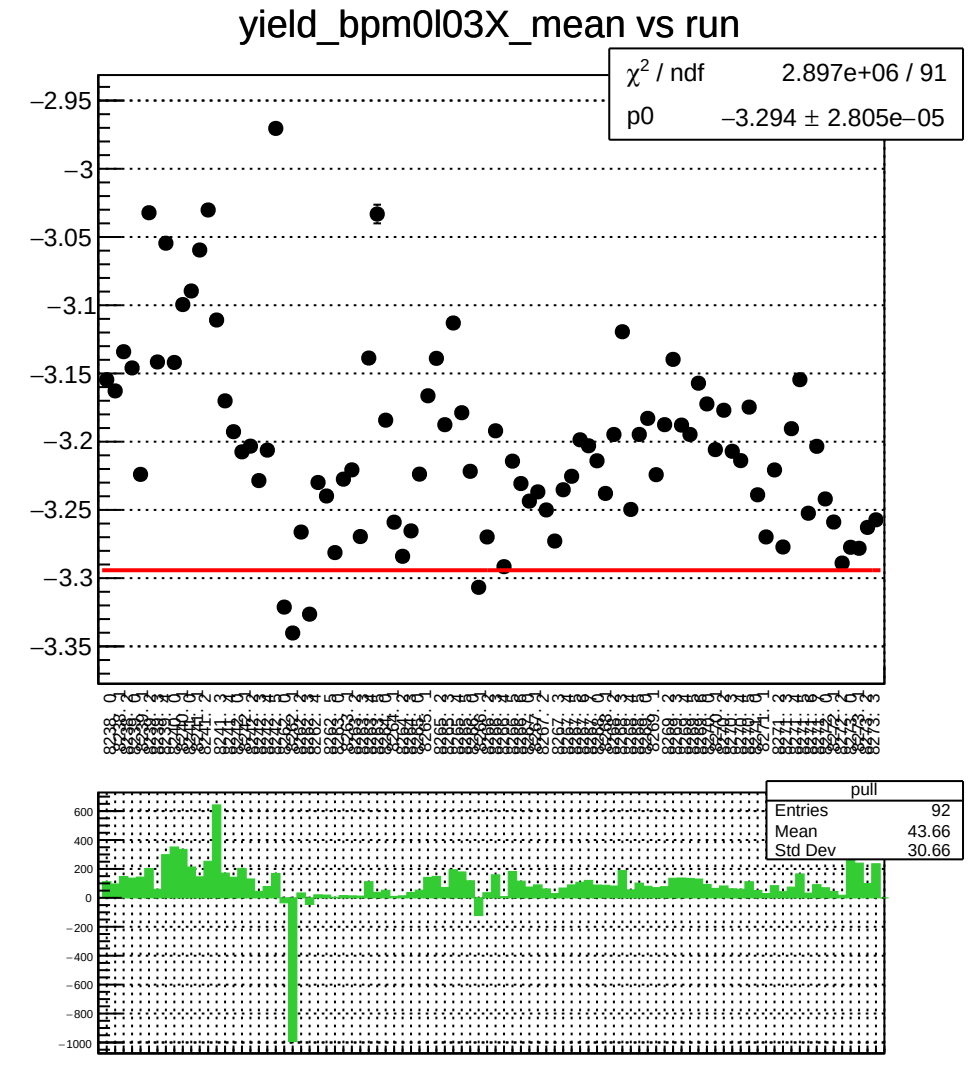

yield_bpm0l02X_mean vs run
χ² / ndf 9.489e+07 / 91
p0 −1.387 ± 2.339e−05
pull
Entries 92
Mean 66.32
Std Dev 102.8

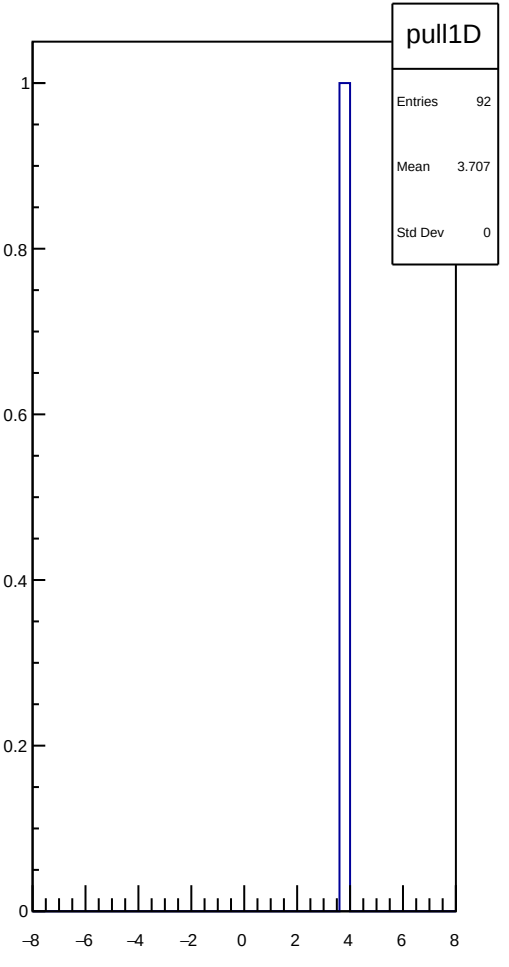

pull1D
Entries 92
Mean −3.473
Std Dev 0.6232

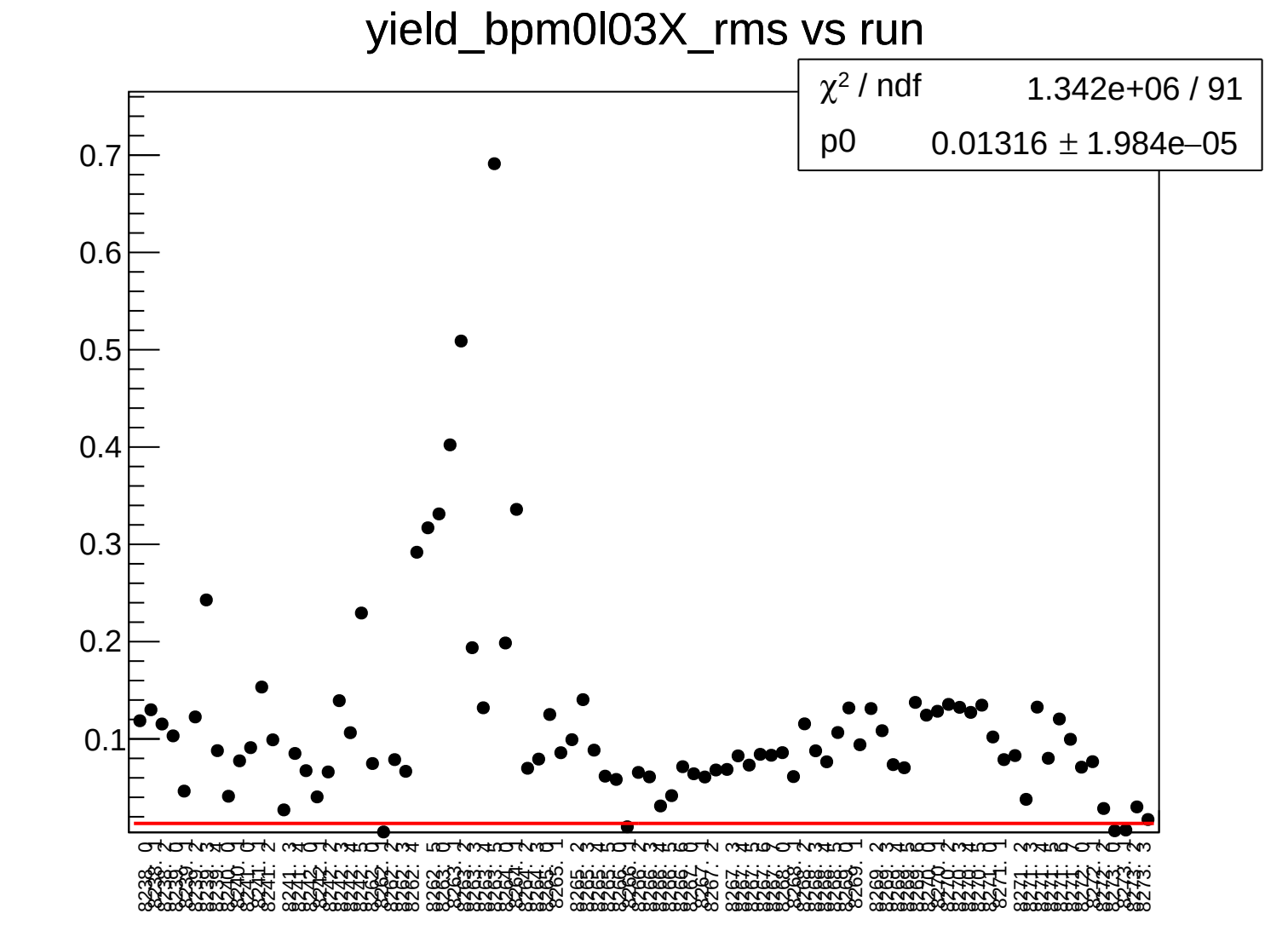

yield_bpm0l02X_rms vs run
χ² / ndf 5.041e+04 / 91
p0 0.02177 ± 1.654e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

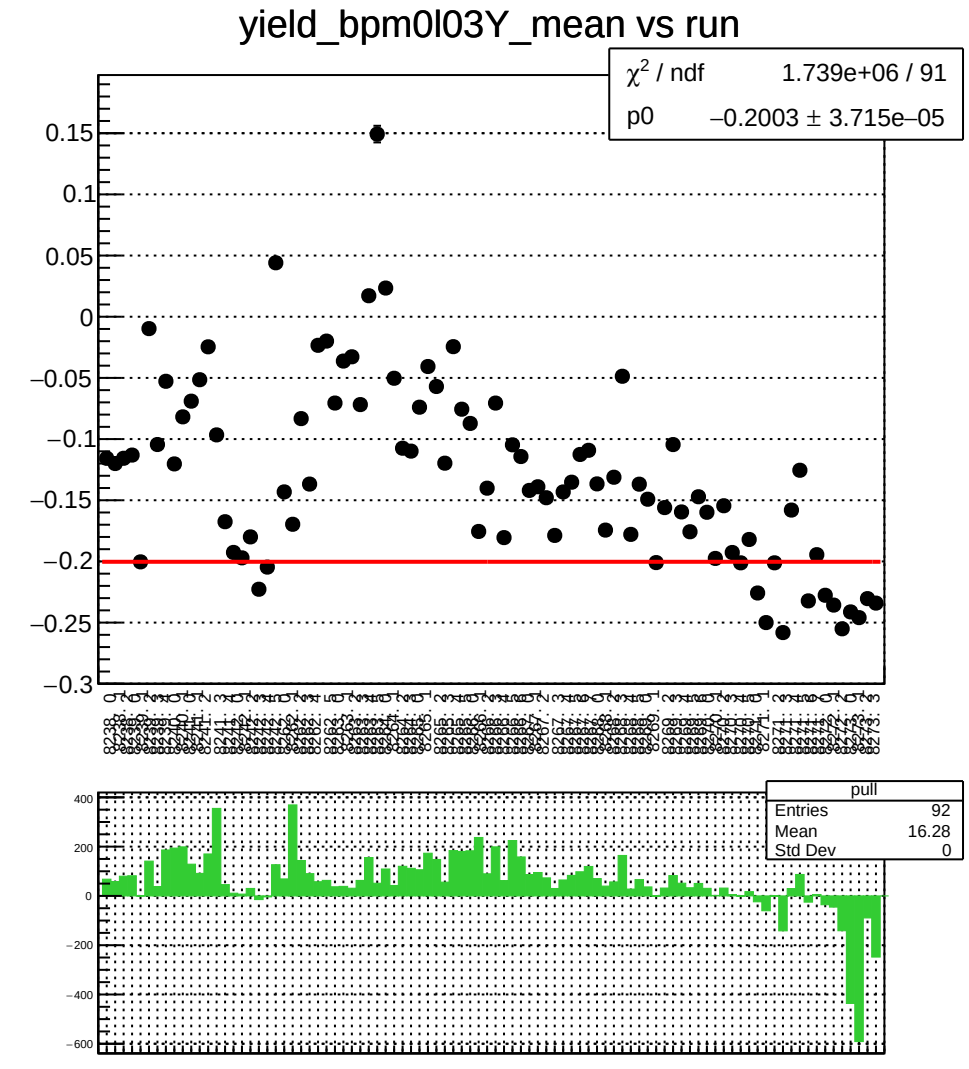

yield_bpm0l02Y_mean vs run
χ² / ndf 4.667e+07 / 91
p0 −1.011 ± 1.685e−05
pull
Entries 92
Mean 277.7
Std Dev 0
pull1D
Entries 92
Mean 0
Std Dev 0

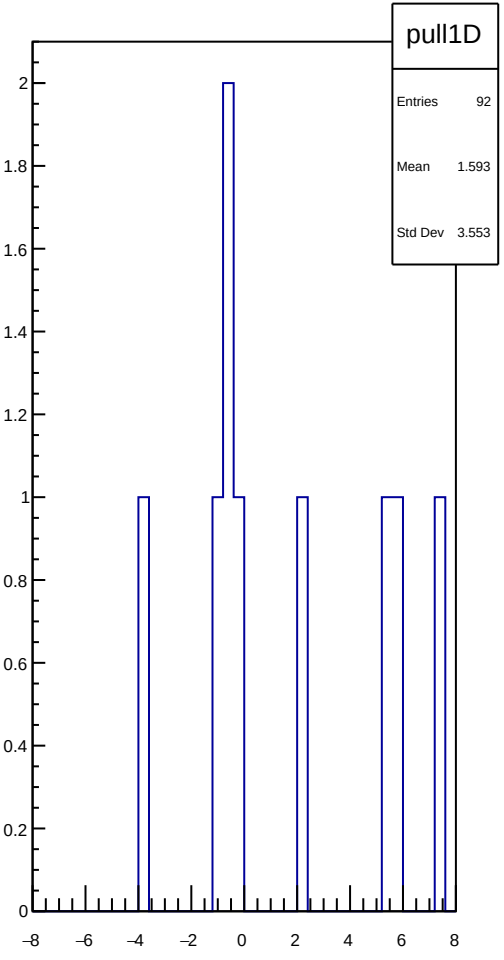

yield_bpm0l02Y_rms vs run
χ² / ndf 9.948e+04 / 91
p0 0.01546 ± 1.191e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

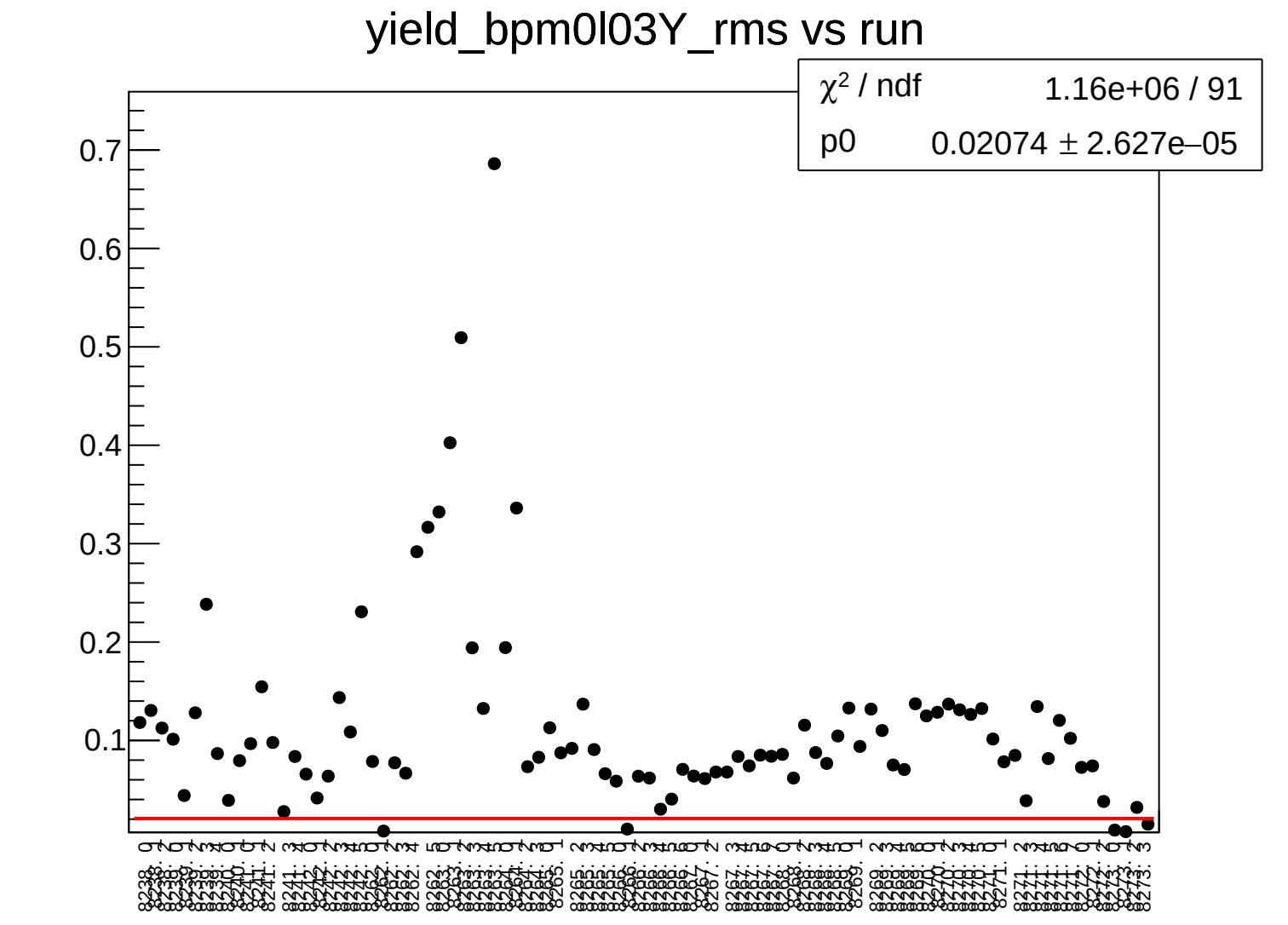

yield_bpm0l03X_mean vs run
χ² / ndf 2.897e+06 / 91
p0 −3.294 ± 2.805e−05
−2.95
−3
−3.05
−3.1
−3.15
−3.2
−3.25
−3.3
−3.35
pull
Entries 92
Mean 43.66
Std Dev 30.66
600
400
200
0
−200
−400
−600
−800
−1000

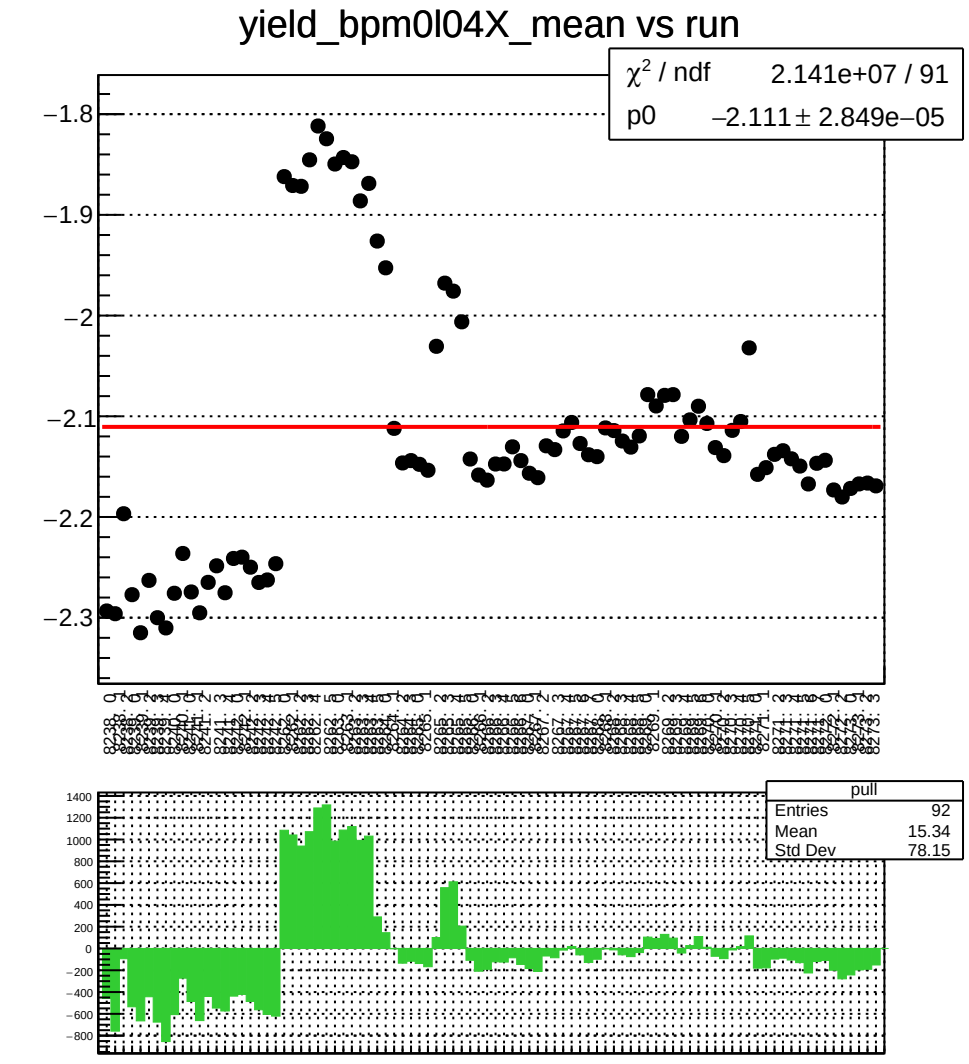

pull1D
Entries 92
Mean 3.707
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

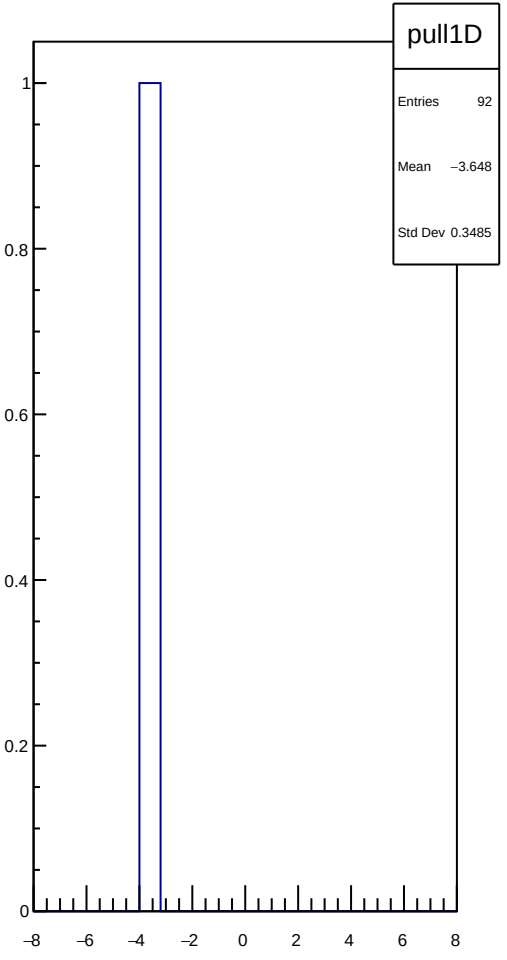

yield_bpm0l03X_rms vs run
χ² / ndf 1.342e+06 / 91
p0 0.01316 ± 1.984e−05
0.7
0.6
0.5
0.4
0.3
0.2
0.1

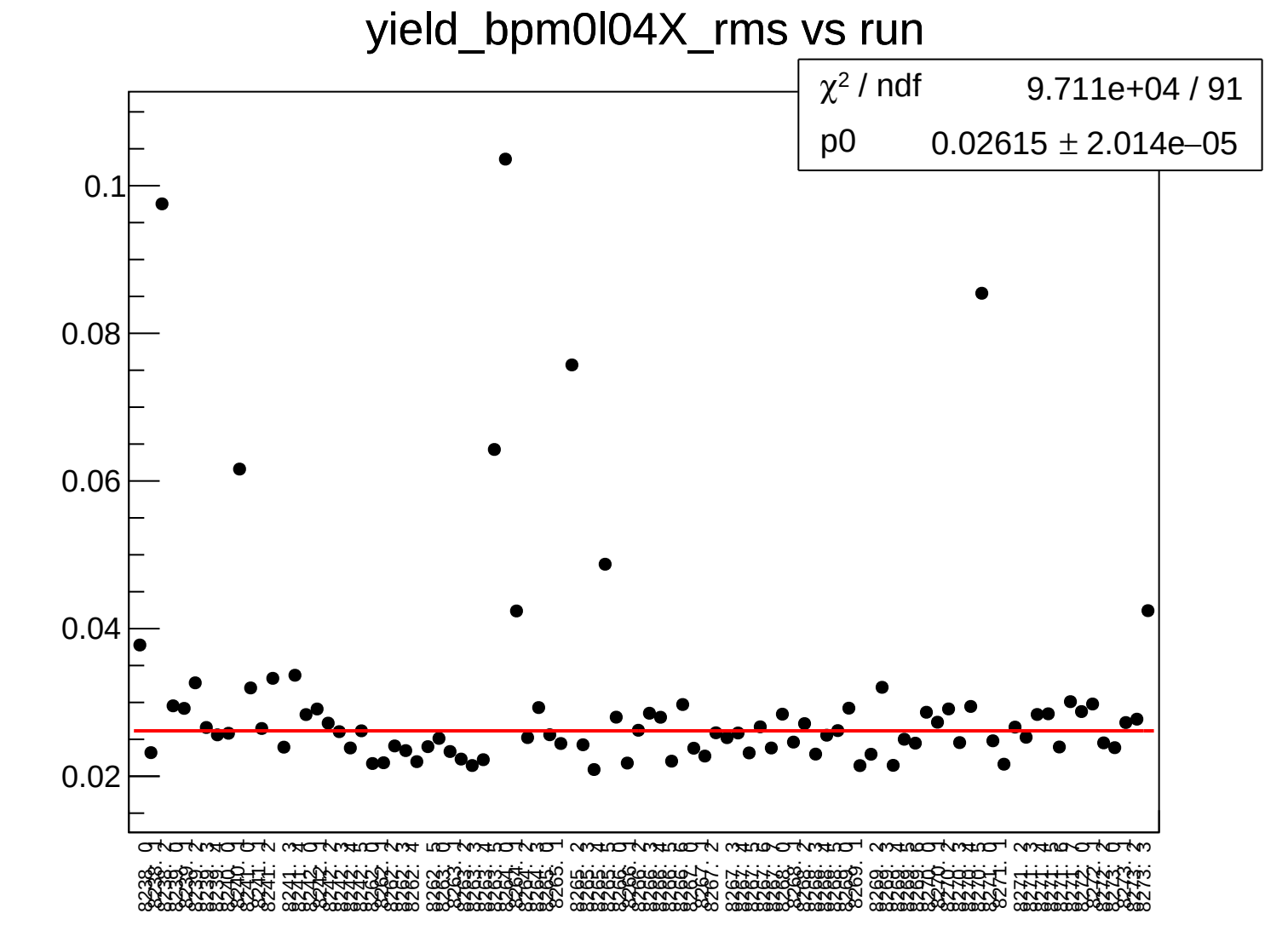

yield_bpm0l03Y_mean vs run
χ² / ndf 1.739e+06 / 91
p0 −0.2003 ± 3.715e−05
pull
Entries 92
Mean 16.28
Std Dev 0

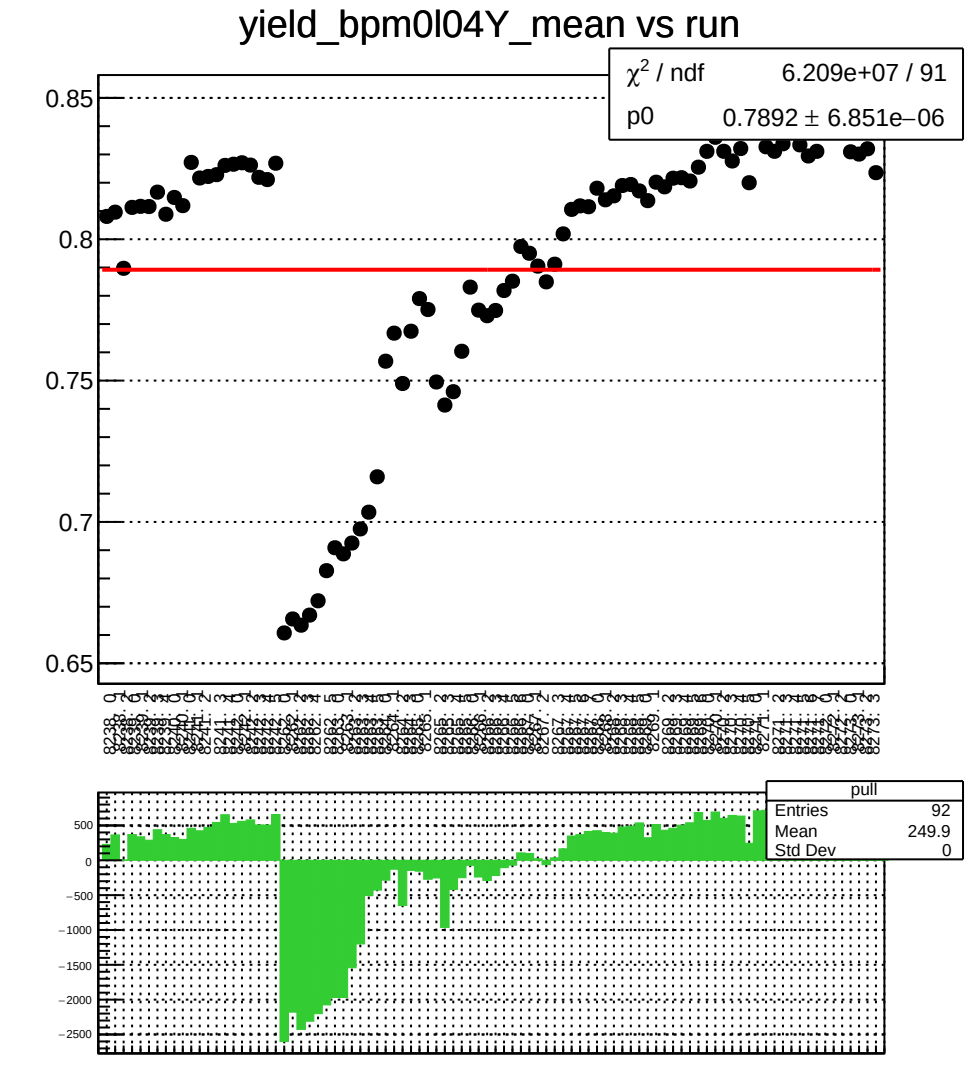

pull1D
Entries 92
Mean 1.593
Std Dev 3.553

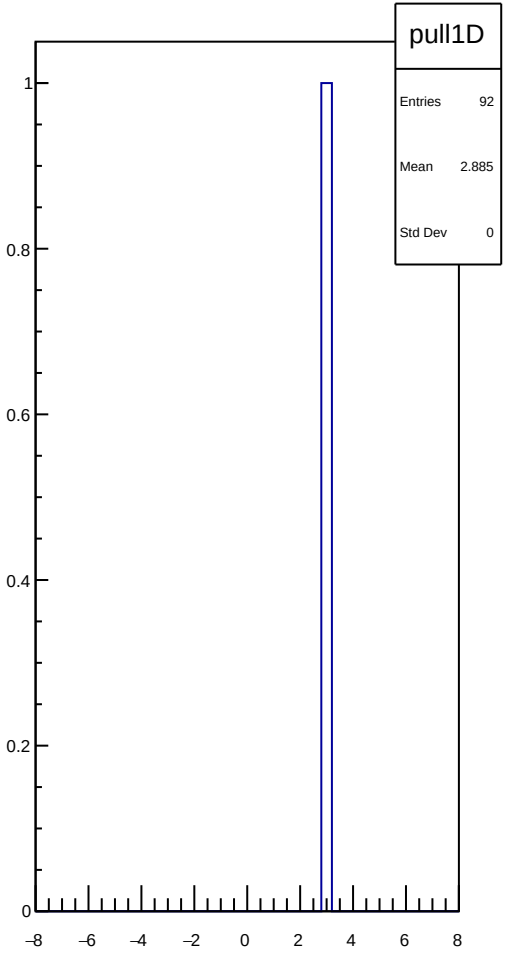

yield_bpm0l03Y_rms vs run
χ² / ndf 1.16e+06 / 91
p0 0.02074 ± 2.627e−05
0.7
0.6
0.5
0.4
0.3
0.2
0.1

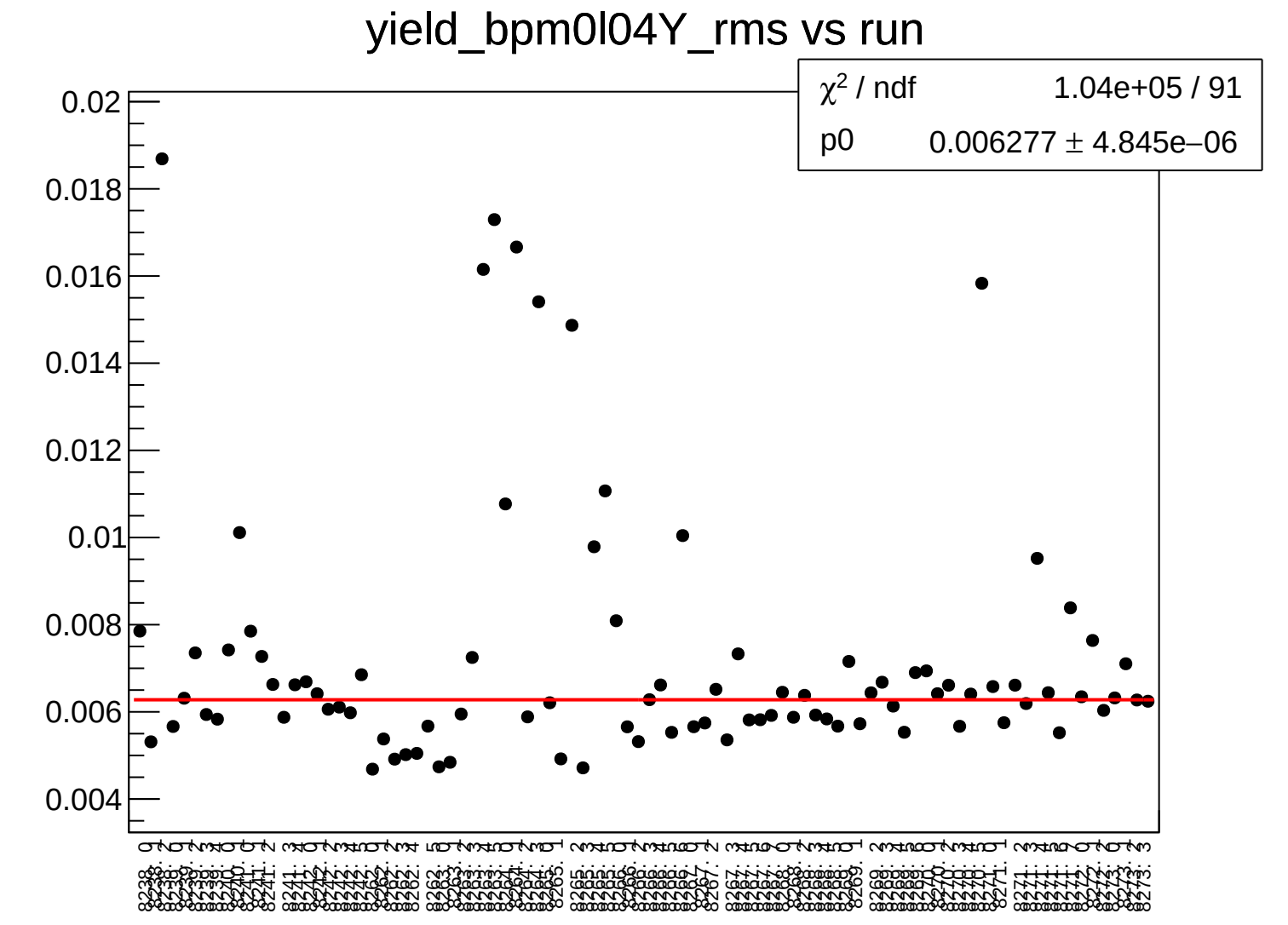

yield_bpm0l04X_mean vs run
χ² / ndf 2.141e+07 / 91
p0 −2.111 ± 2.849e−05
−1.8
−1.9
−2
−2.1
−2.2
−2.3
pull
Entries 92
Mean 15.34
Std Dev 78.15
1400
1200
1000
800
600
400
200
0
−200
−400
−600
−800

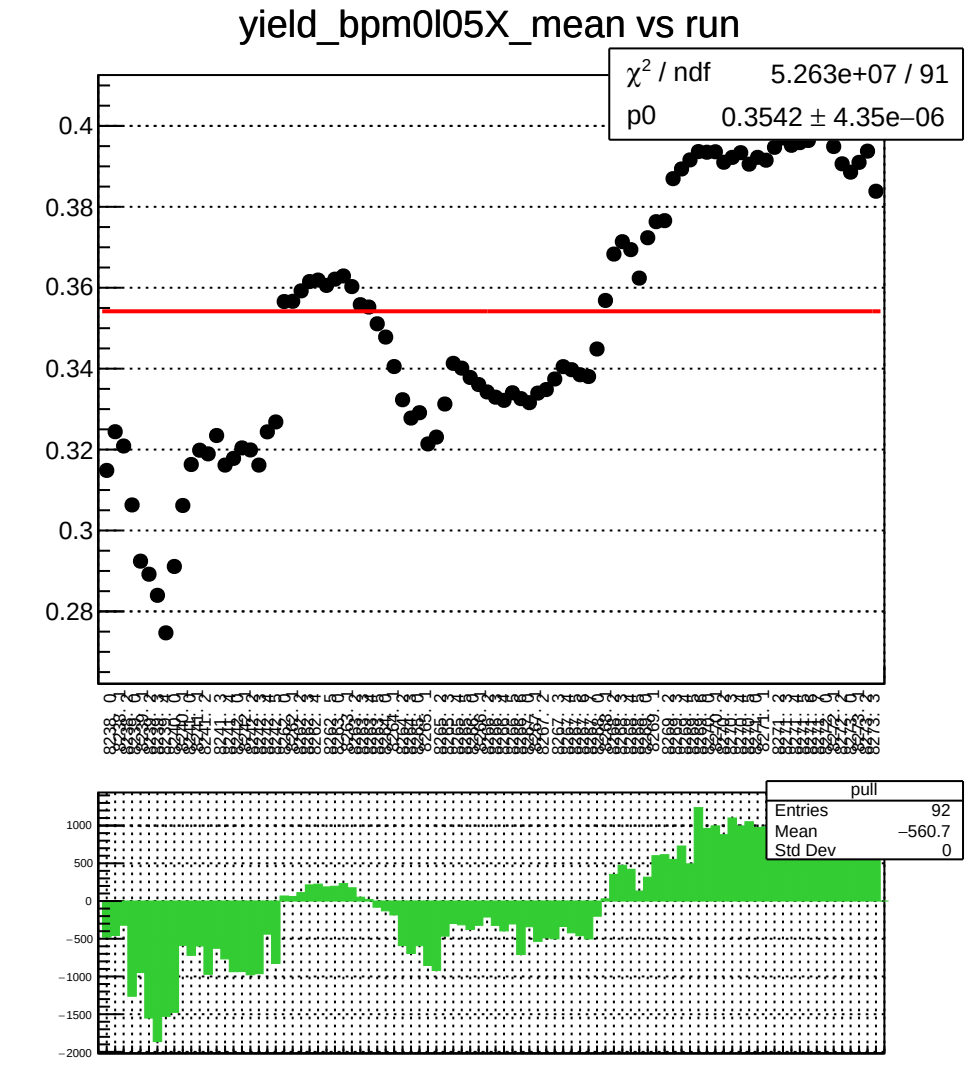

pull1D
Entries 92
Mean −3.648
Std Dev 0.3485
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

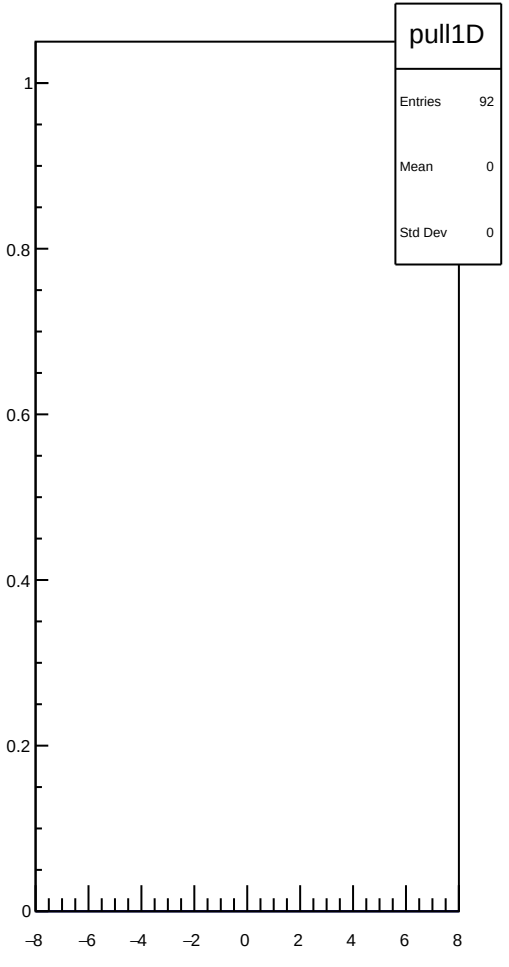

yield_bpm0l04X_rms vs run
χ² / ndf 9.711e+04 / 91
p0 0.02615 ± 2.014e–05
0.1
0.08
0.06
0.04
0.02

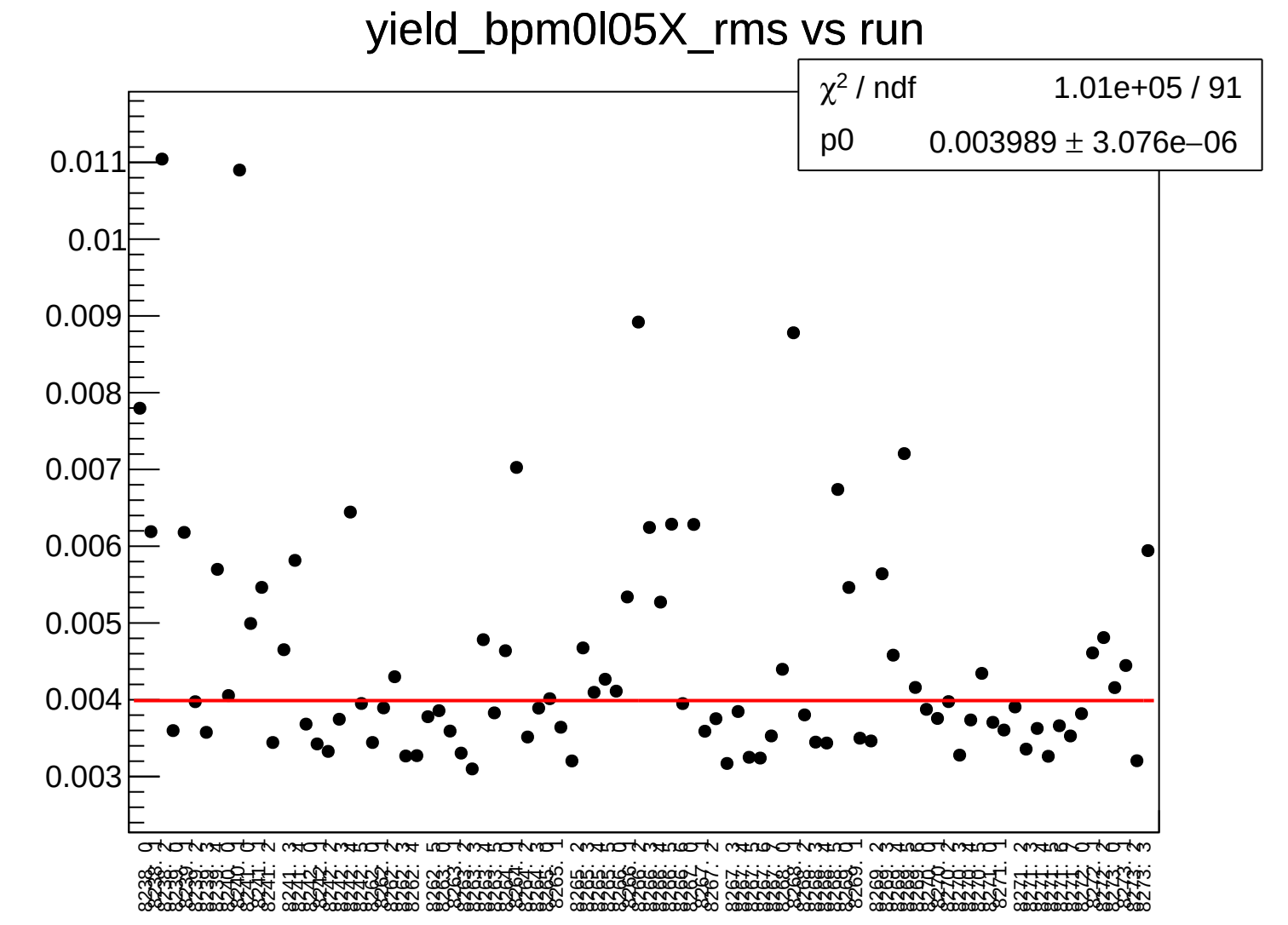

yield_bpm0l04Y_mean vs run
χ² / ndf 6.209e+07 / 91
p0 0.7892 ± 6.851e−06
0.85
0.8
0.75
0.7
0.65
pull
Entries 92
Mean 249.9
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500

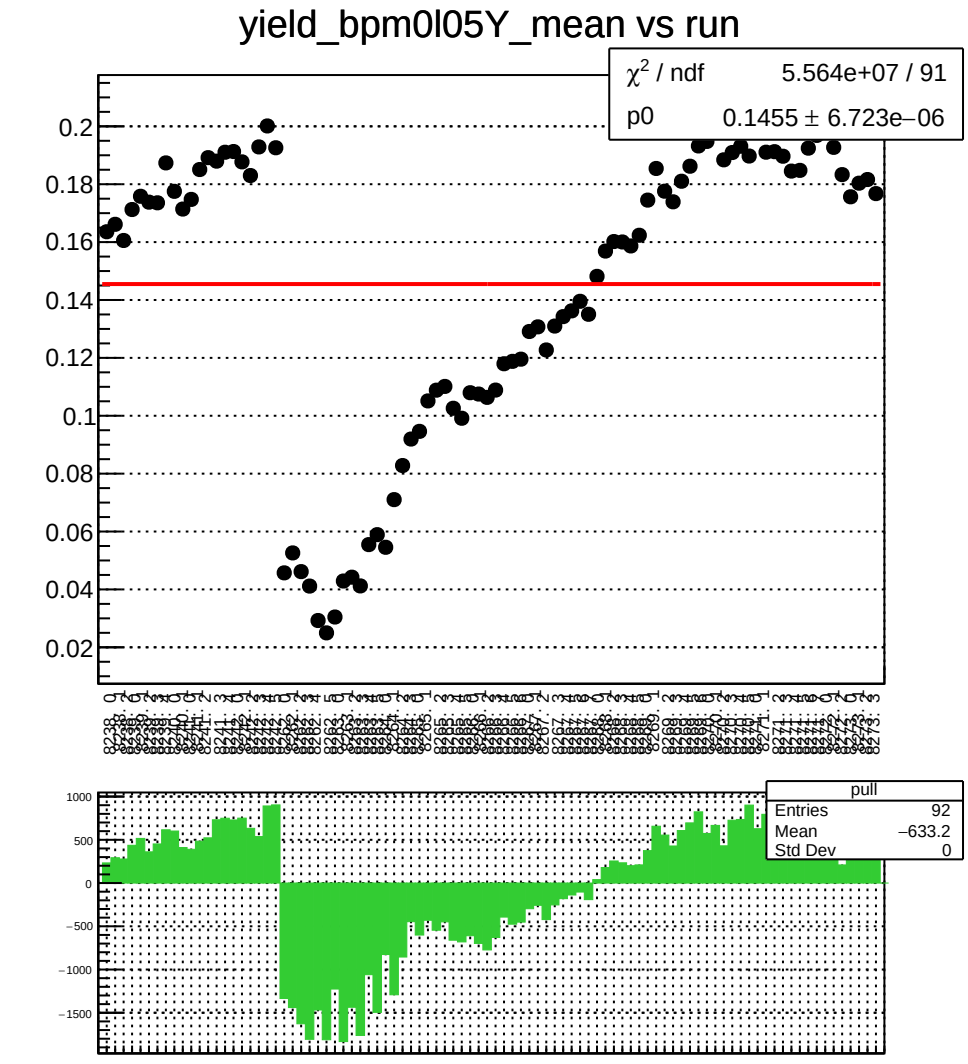

pull1D
Entries 92
Mean 2.885
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

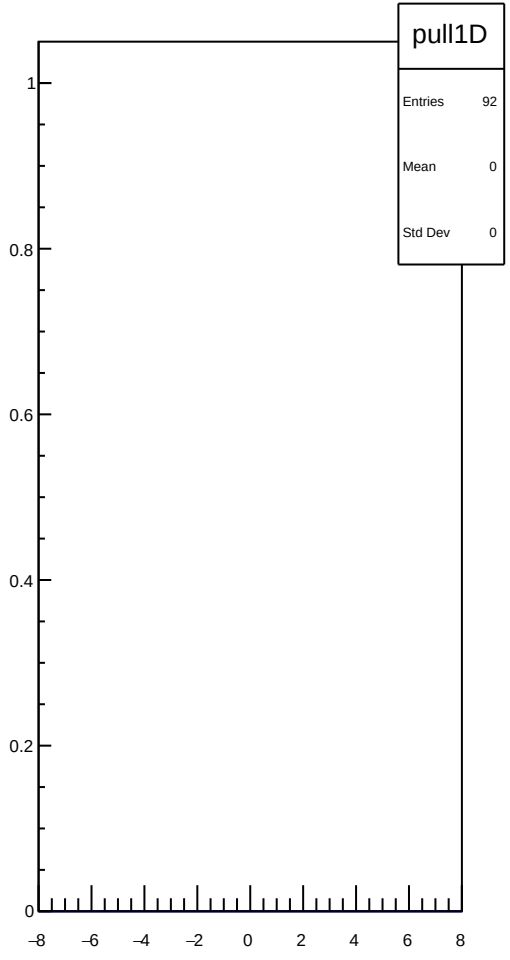

yield_bpm0l04Y_rms vs run
χ² / ndf 1.04e+05 / 91
p0 0.006277 ± 4.845e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

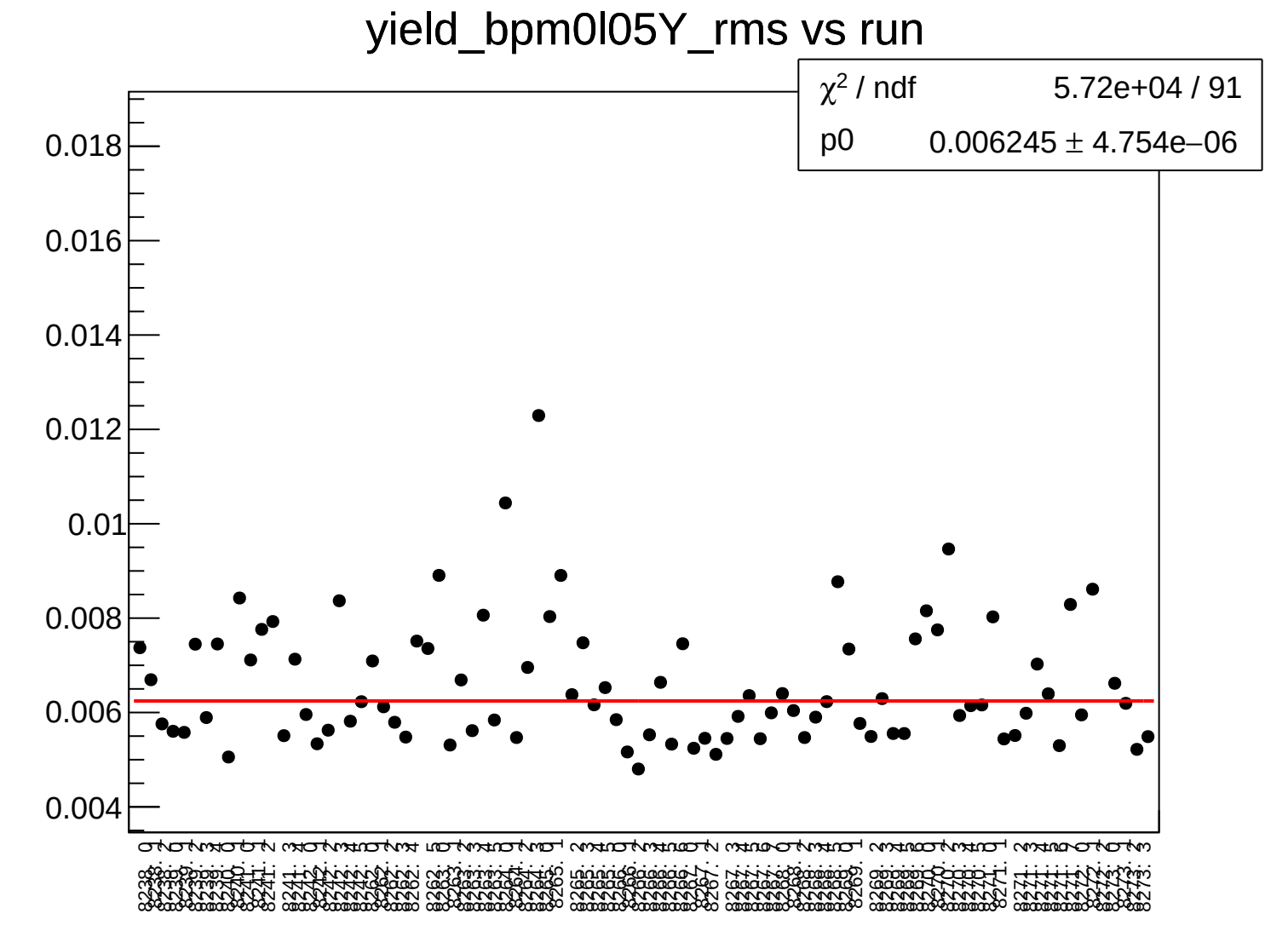

yield_bpm0l05X_mean vs run
χ² / ndf 5.263e+07 / 91
p0 0.3542 ± 4.35e−06
0.4
0.38
0.36
0.34
0.32
0.3
0.28
pull
Entries 92
Mean −560.7
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

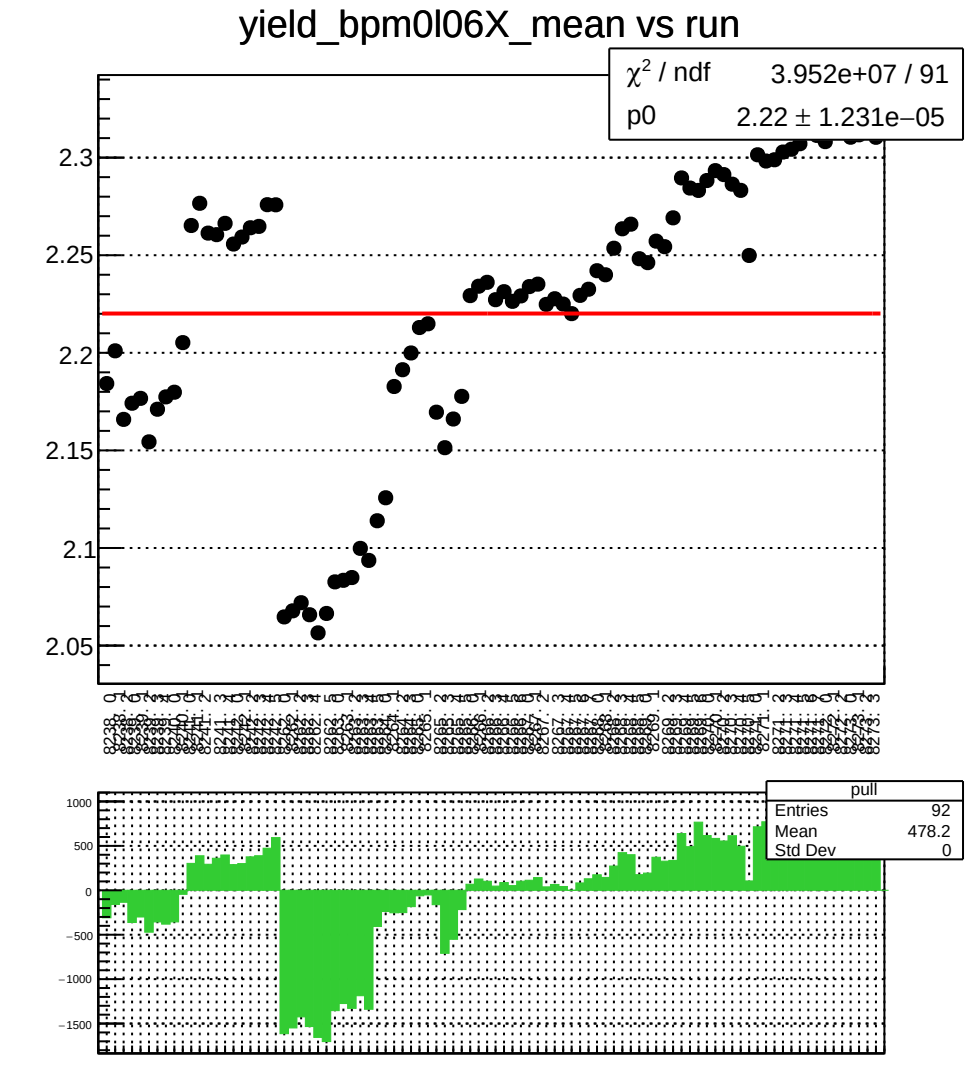

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

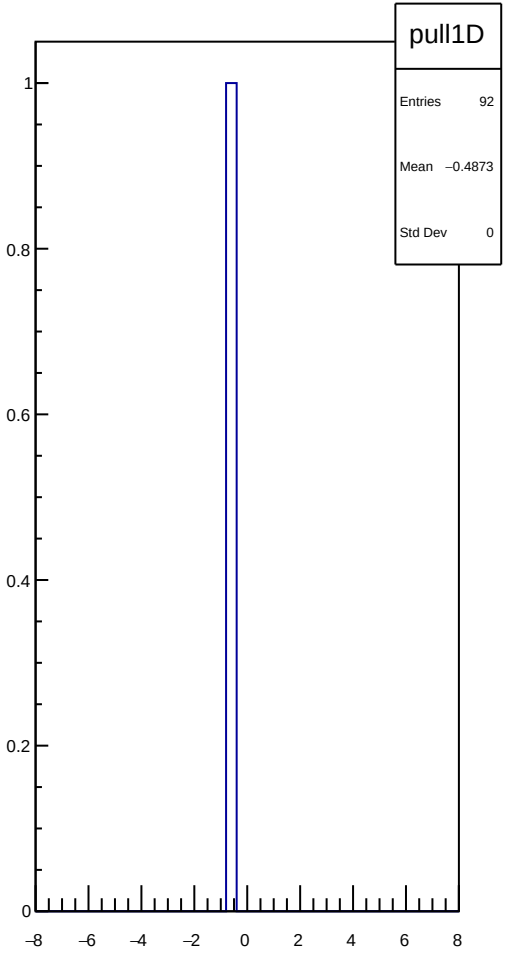

yield_bpm0l05X_rms vs run
$\chi^2$ / ndf 1.01e+05 / 91
p0 0.003989 ± 3.076e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

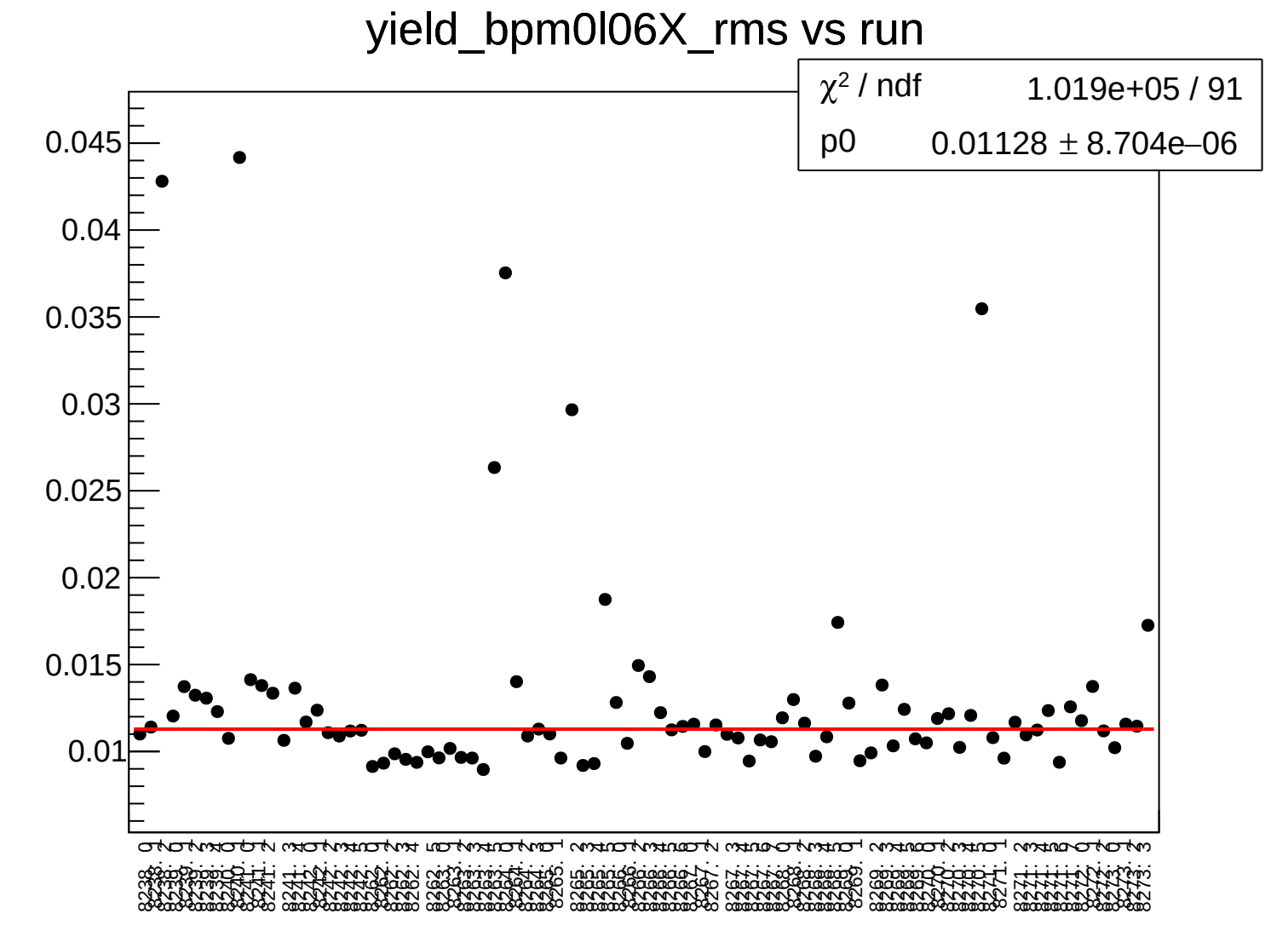

yield_bpm0l05Y_mean vs run
χ² / ndf 5.564e+07 / 91
p0 0.1455 ± 6.723e−06
pull
Entries 92
Mean −633.2
Std Dev 0

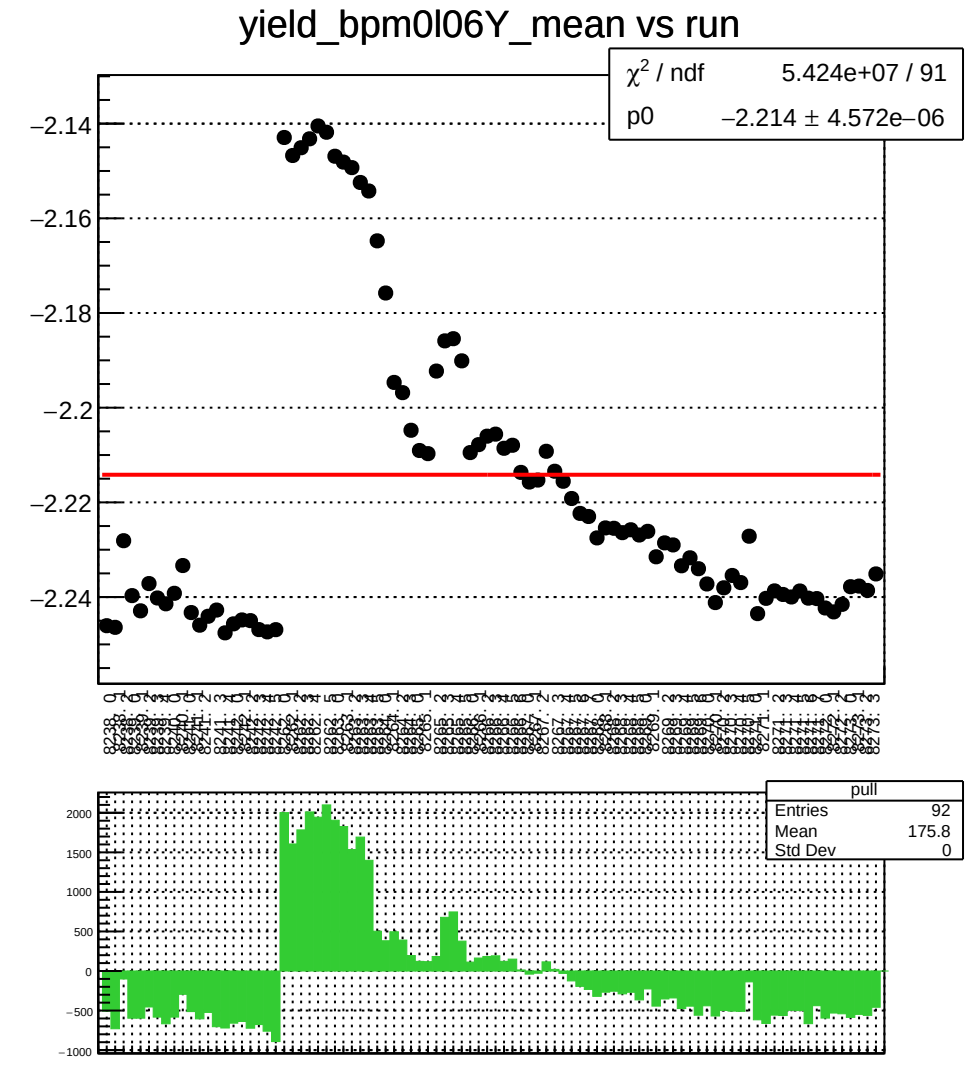

pull1D
Entries 92
Mean 0
Std Dev 0

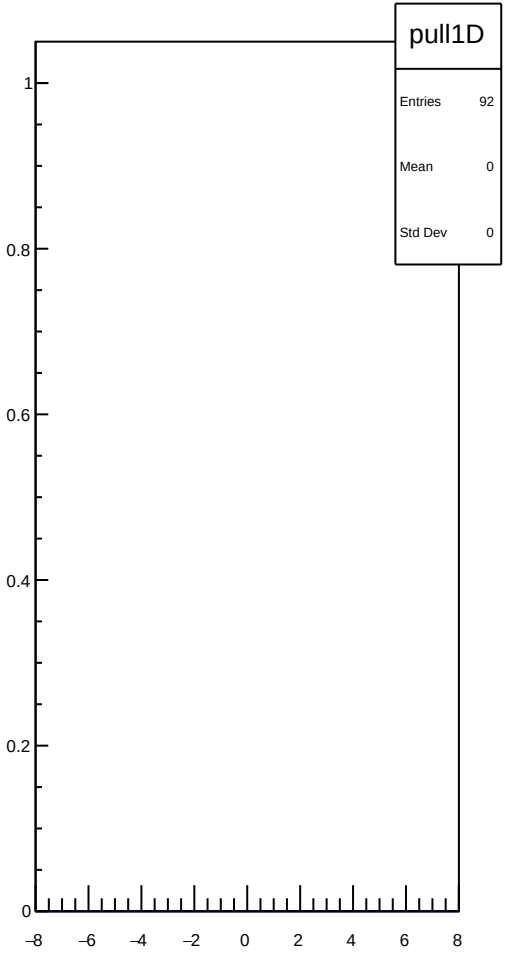

yield_bpm0l05Y_rms vs run
χ² / ndf 5.72e+04 / 91
p0 0.006245 ± 4.754e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

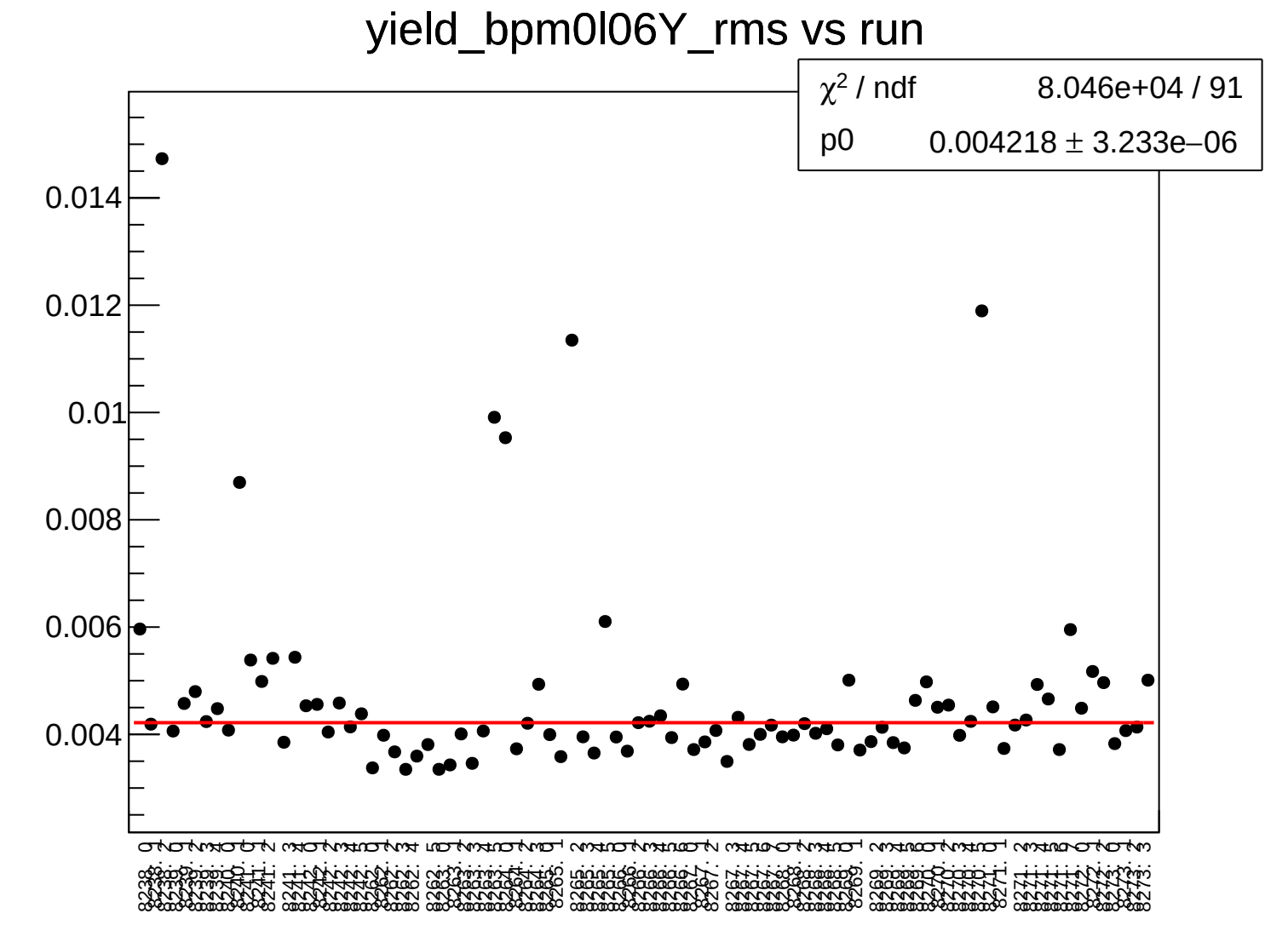

yield_bpm0l06X_mean vs run
χ² / ndf 3.952e+07 / 91
p0 2.22 ± 1.231e−05
2.3
2.25
2.2
2.15
2.1
2.05
pull
Entries 92
Mean 478.2
Std Dev 0
1000
500
0
−500
−1000
−1500

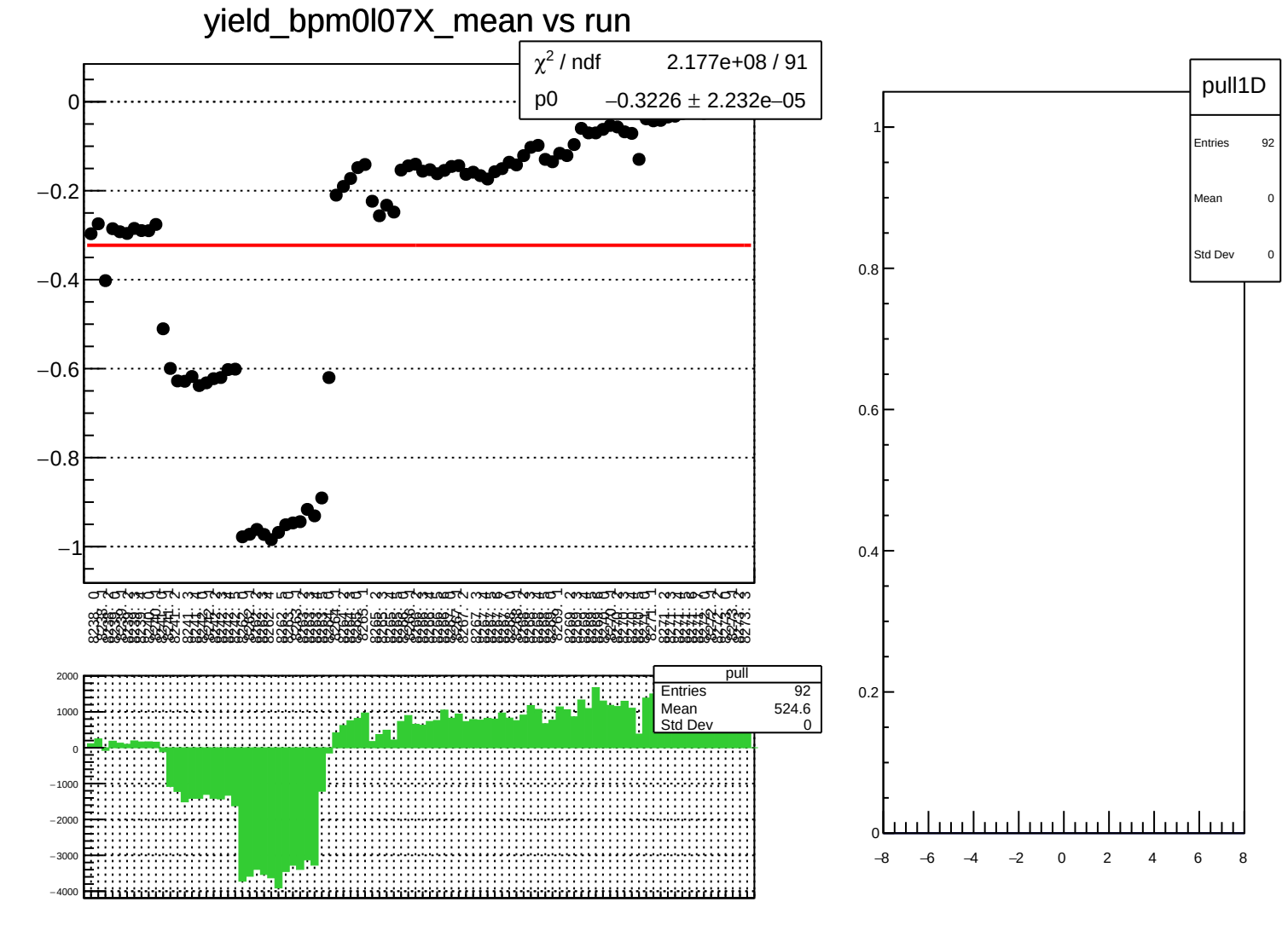

pull1D
Entries 92
Mean −0.4873
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

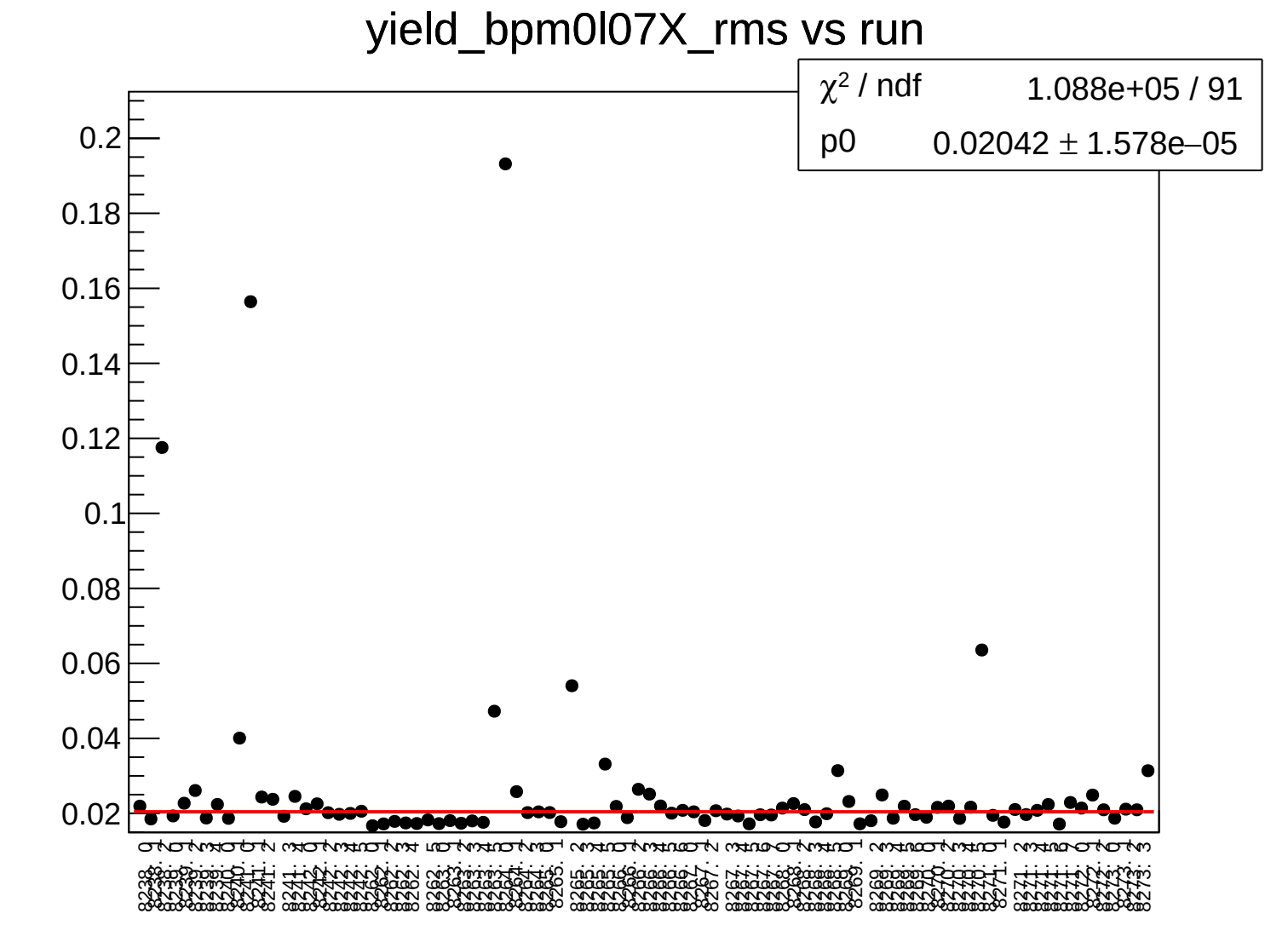

yield_bpm0l06X_rms vs run
χ² / ndf 1.019e+05 / 91
p0 0.01128 ± 8.704e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

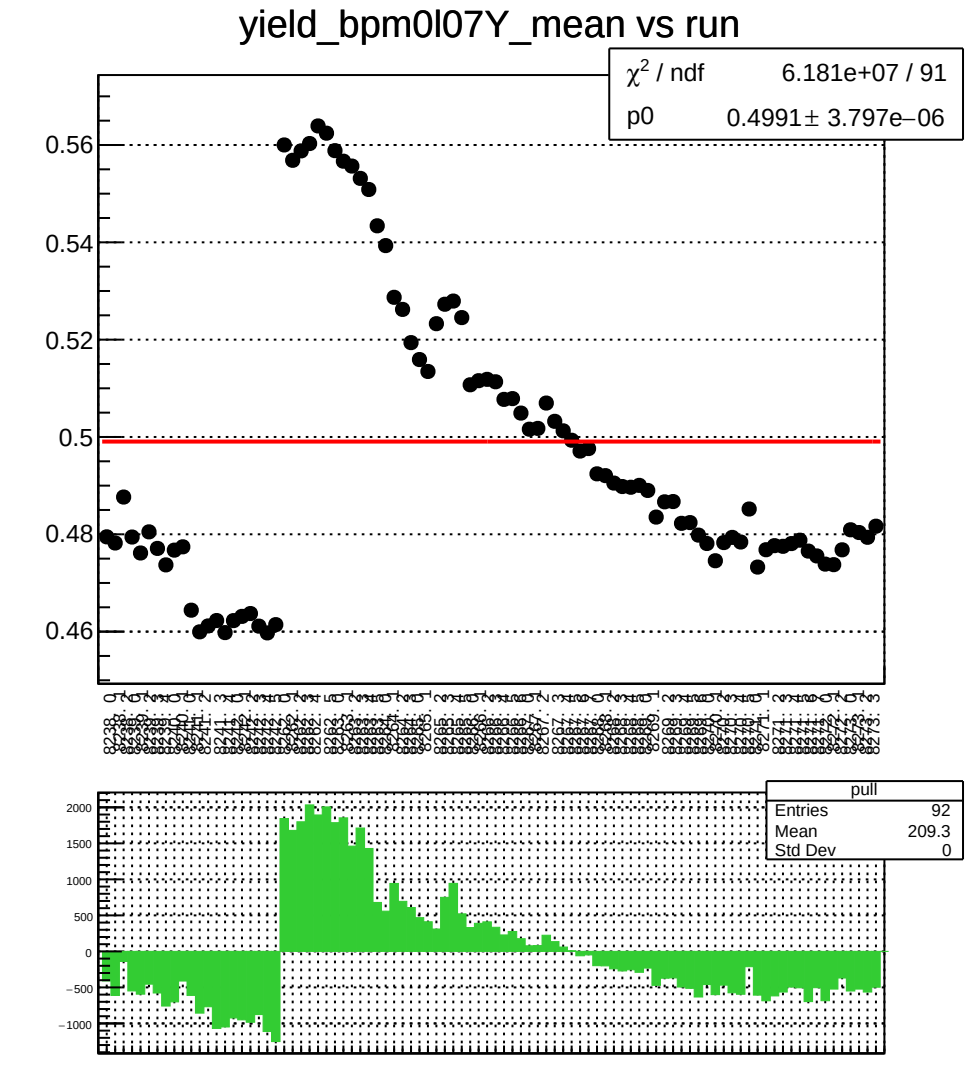

yield_bpm0l06Y_mean vs run
χ² / ndf 5.424e+07 / 91
p0 −2.214 ± 4.572e−06
−2.14
−2.16
−2.18
−2.2
−2.22
−2.24
pull
Entries 92
Mean 175.8
Std Dev 0
2000
1500
1000
500
0
−500
−1000

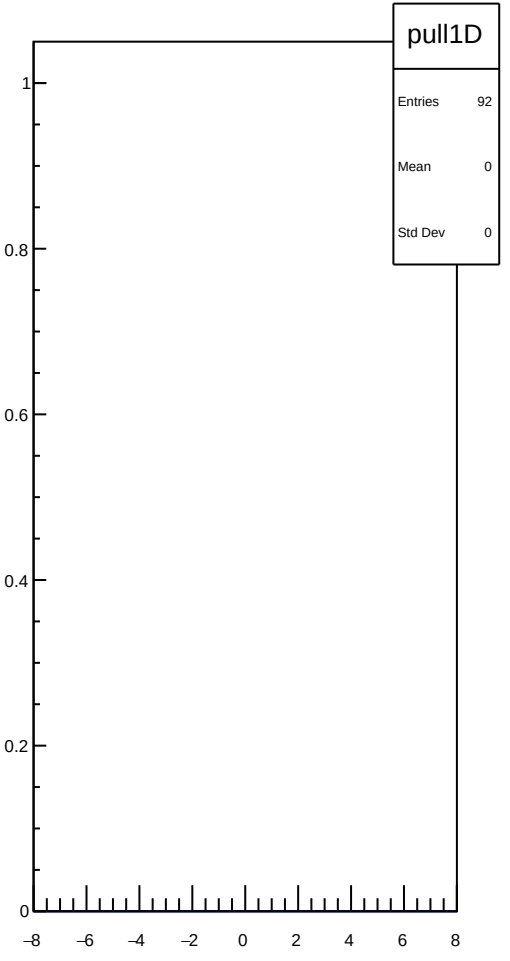

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

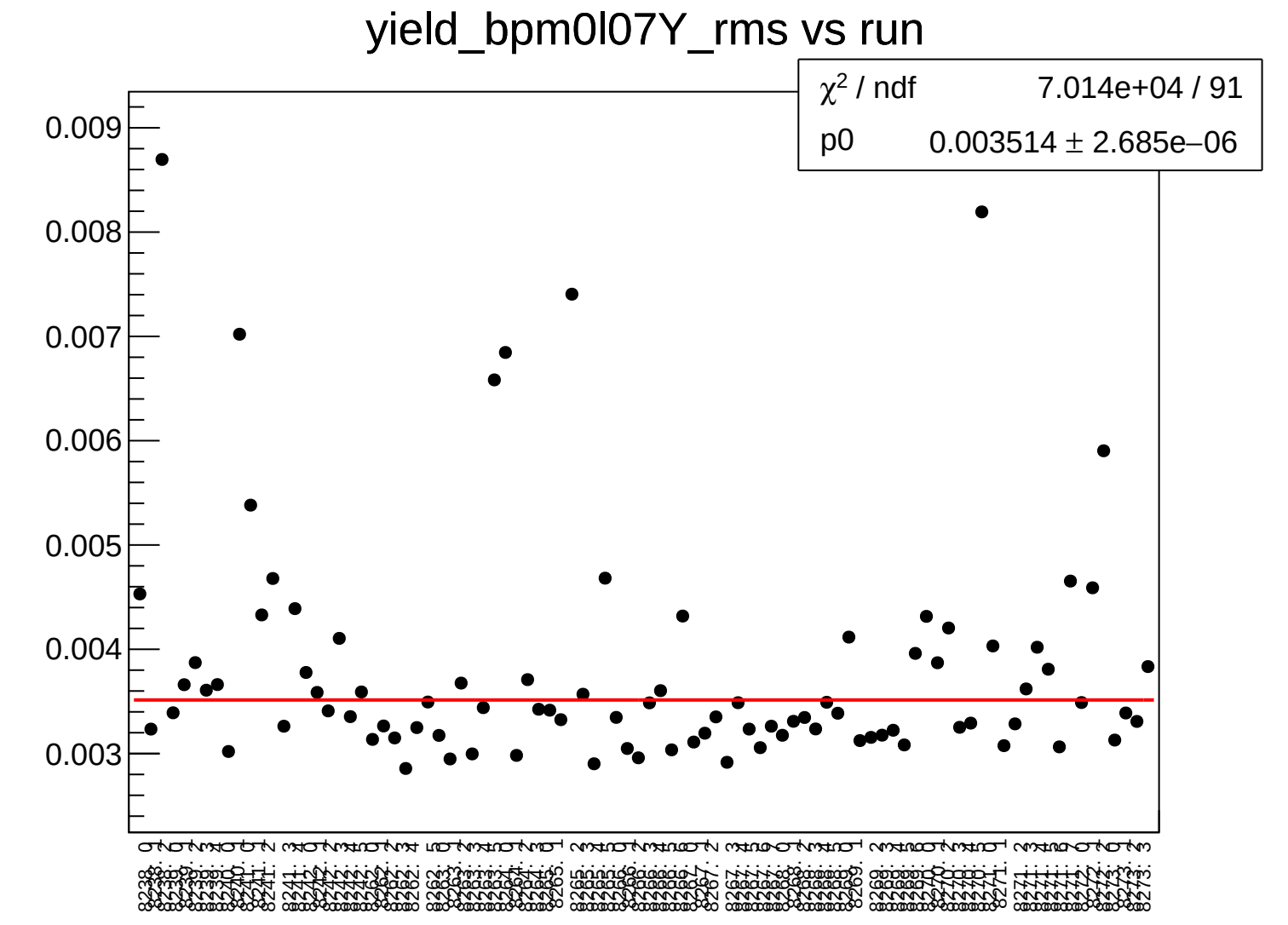

yield_bpm0l06Y_rms vs run
χ² / ndf 8.046e+04 / 91
p0 0.004218 ± 3.233e−06
0.014
0.012
0.01
0.008
0.006
0.004

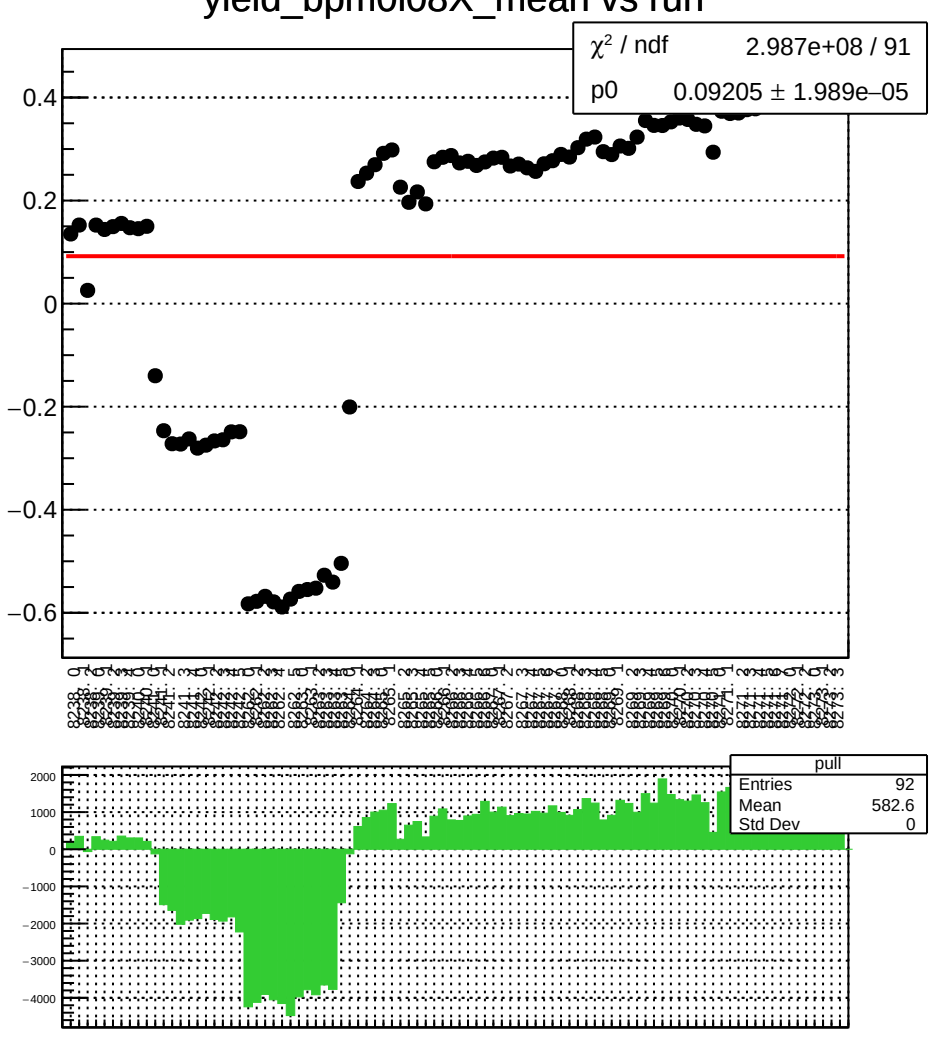

yield_bpm0l07X_mean vs run
χ² / ndf 2.177e+08 / 91
p0 −0.3226 ± 2.232e−05
pull
Entries 92
Mean 524.6
Std Dev 0
pull1D
Entries 92
Mean 0
Std Dev 0

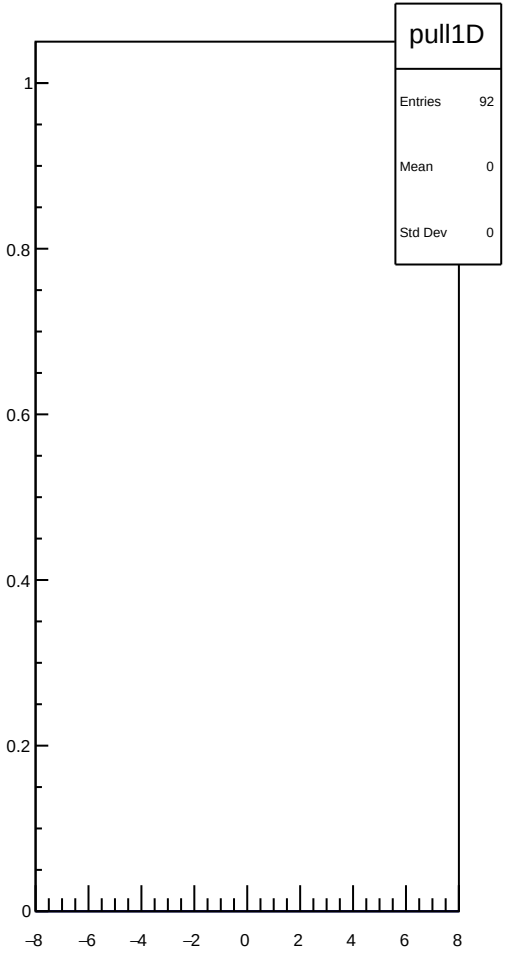

yield_bpm0l07X_rms vs run
χ² / ndf 1.088e+05 / 91
p0 0.02042 ± 1.578e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

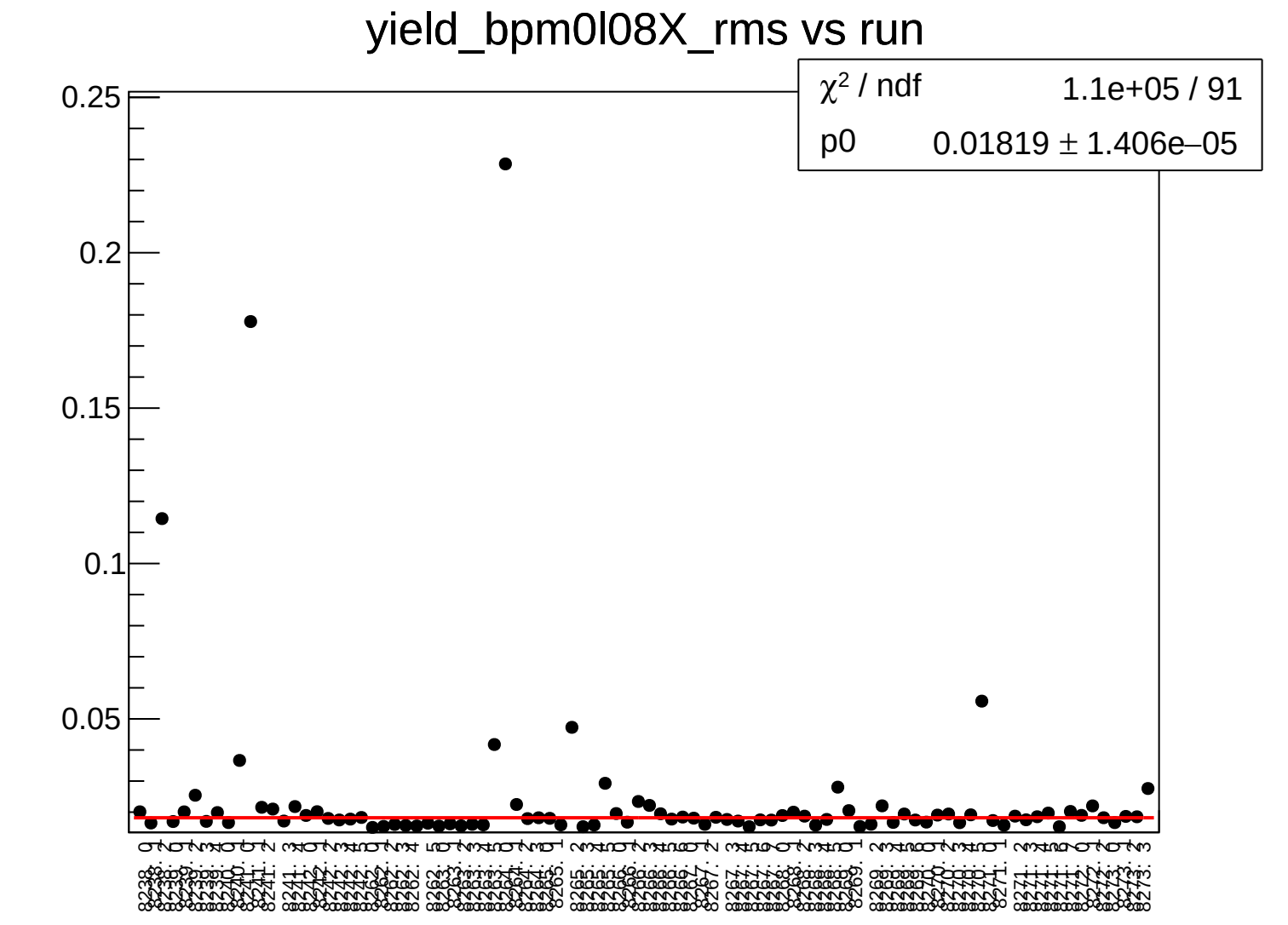

yield_bpm0l07Y_mean vs run
χ² / ndf 6.181e+07 / 91
p0 0.4991 ± 3.797e−06
0.56
0.54
0.52
0.5
0.48
0.46
pull
Entries 92
Mean 209.3
Std Dev 0
2000
1500
1000
500
0
−500
−1000

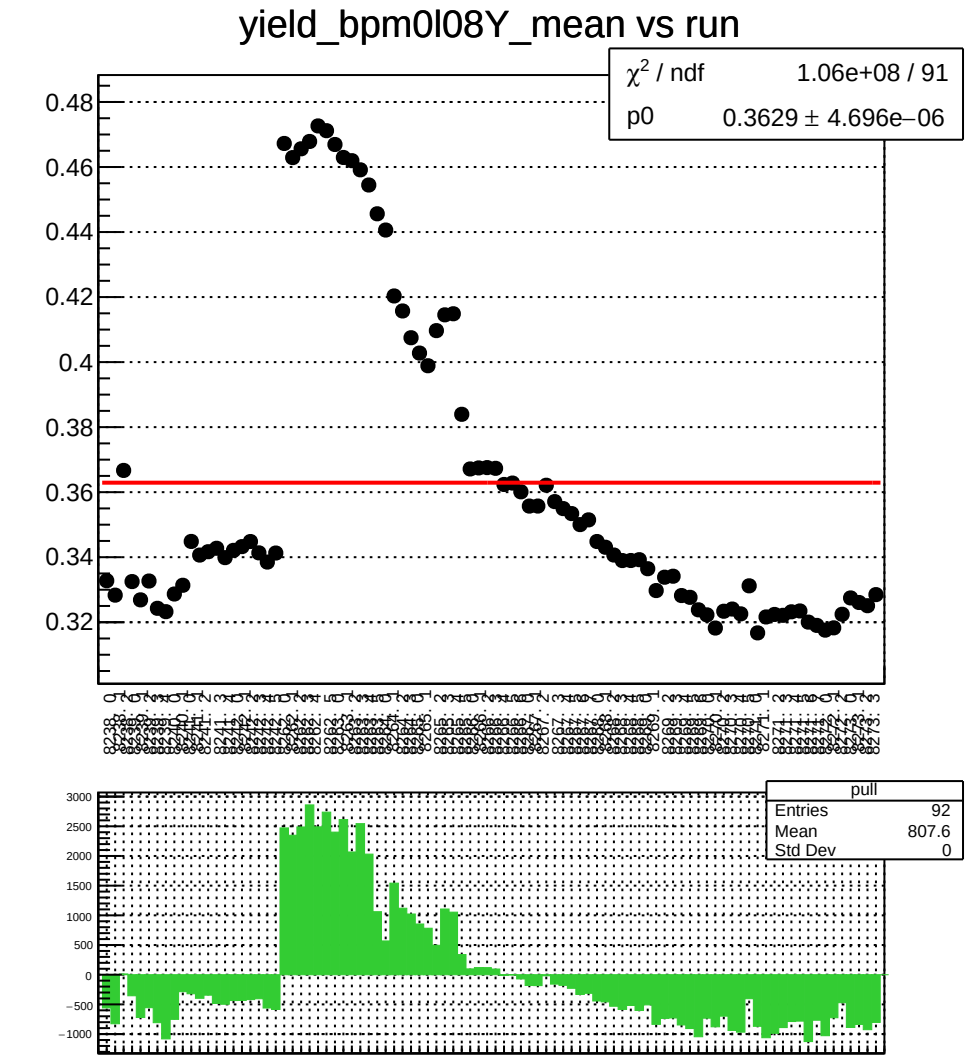

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

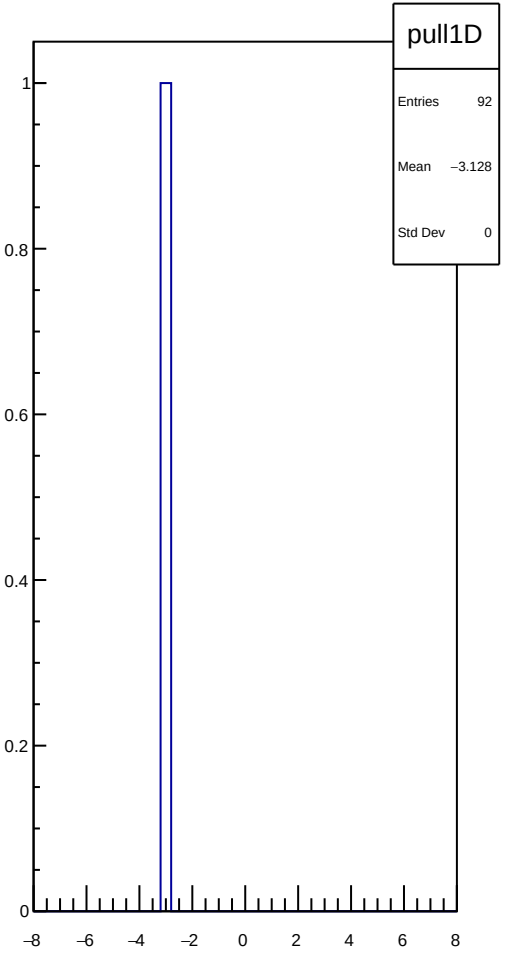

yield_bpm0l07Y_rms vs run
χ² / ndf 7.014e+04 / 91
p0 0.003514 ± 2.685e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

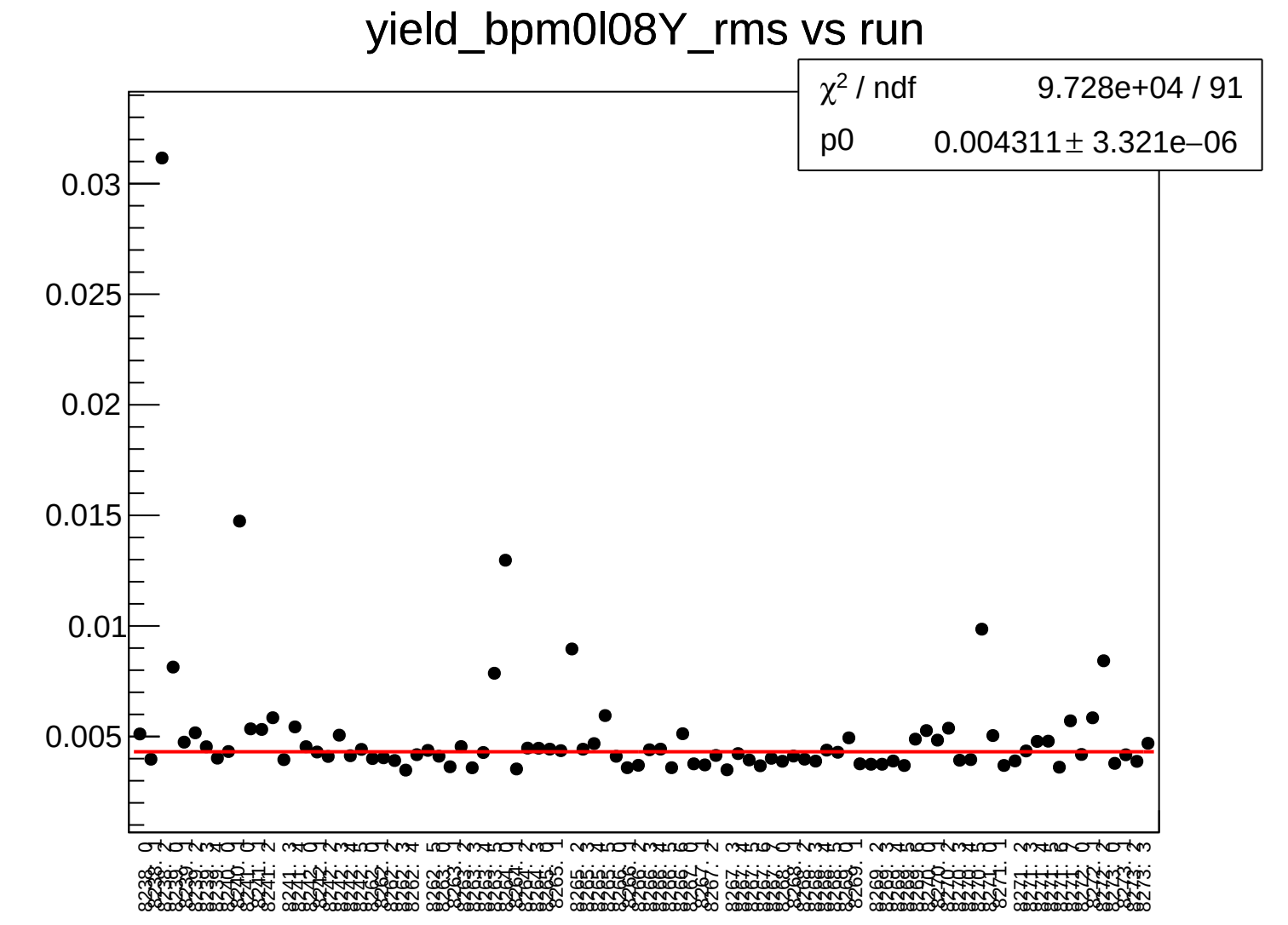

yield_bpm0l08X_mean vs run
χ² / ndf 2.987e+08 / 91
p0 0.09205 ± 1.989e−05
pull
Entries 92
Mean 582.6
Std Dev 0

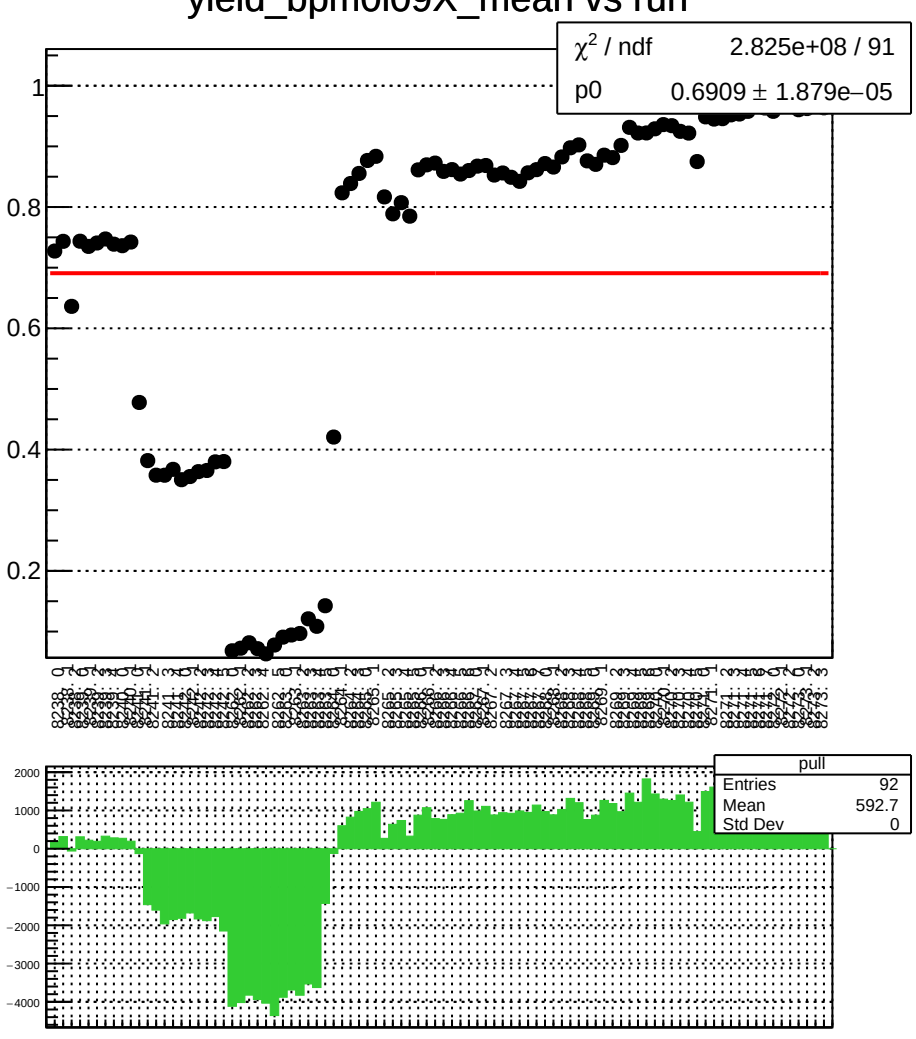

pull1D
Entries 92
Mean 0
Std Dev 0

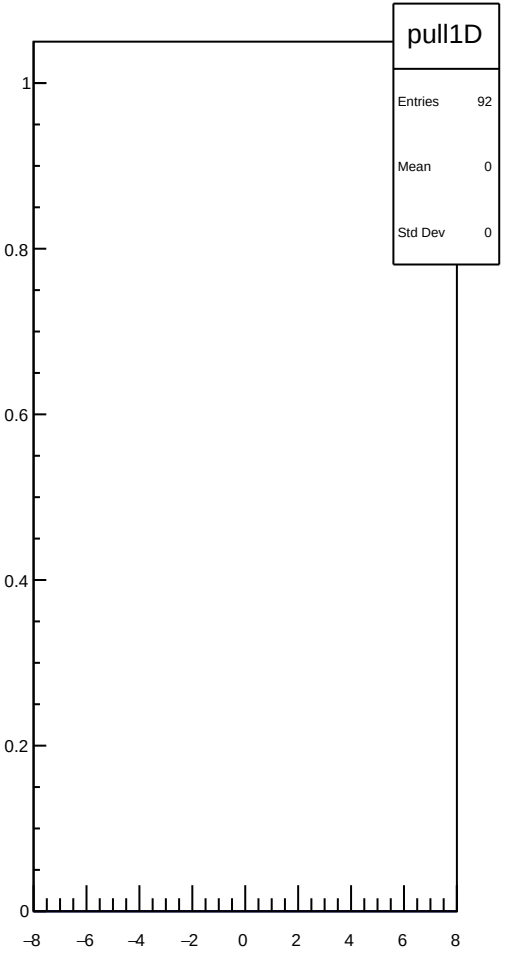

yield_bpm0l08X_rms vs run
χ² / ndf 1.1e+05 / 91
p0 0.01819 ± 1.406e−05
0.25
0.2
0.15
0.1
0.05

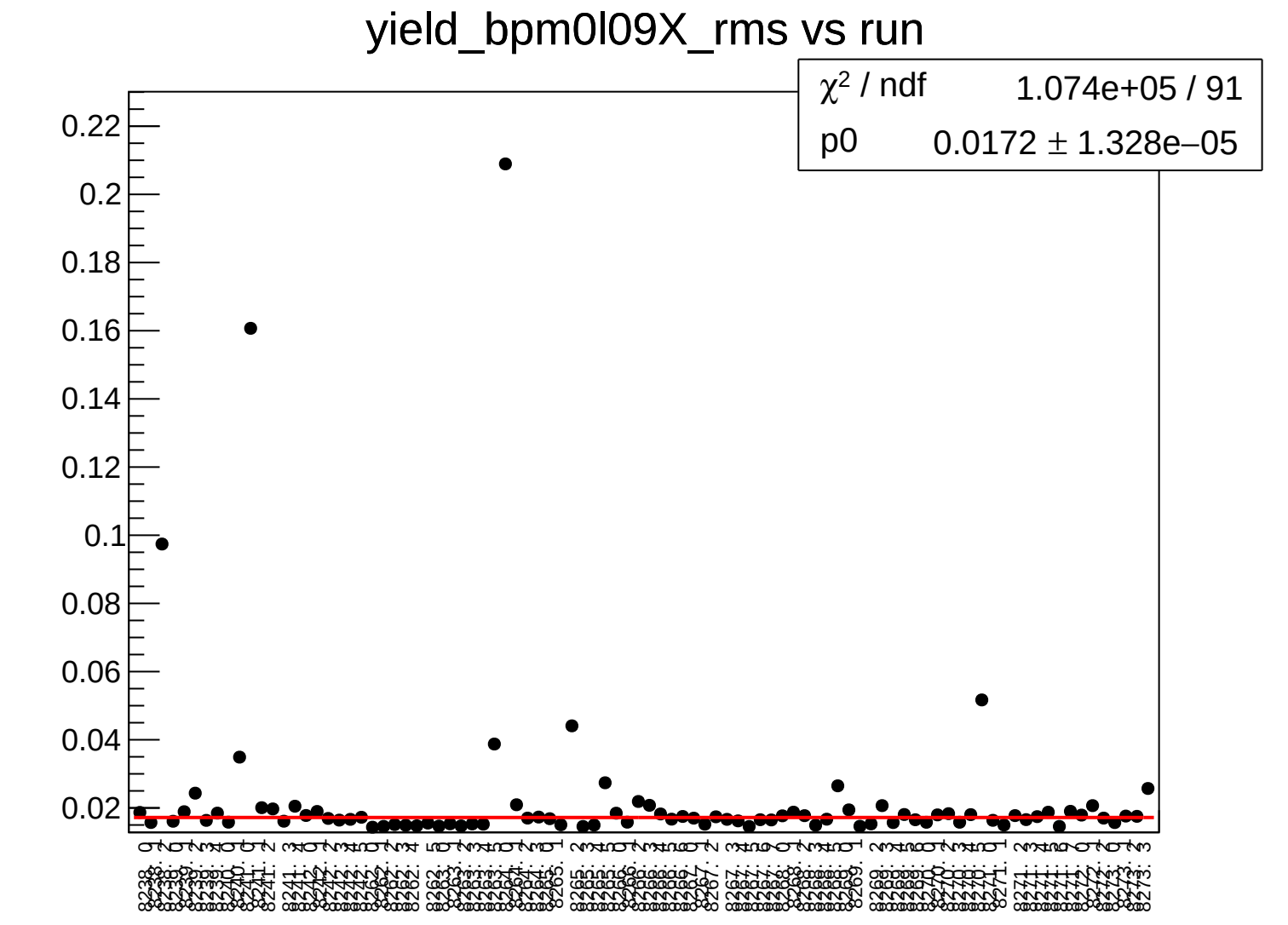

yield_bpm0l08Y_mean vs run
χ² / ndf 1.06e+08 / 91
p0 0.3629 ± 4.696e−06
0.48
0.46
0.44
0.42
0.4
0.38
0.36
0.34
0.32
pull
Entries 92
Mean 807.6
Std Dev 0
3000
2500
2000
1500
1000
500
0
−500
−1000

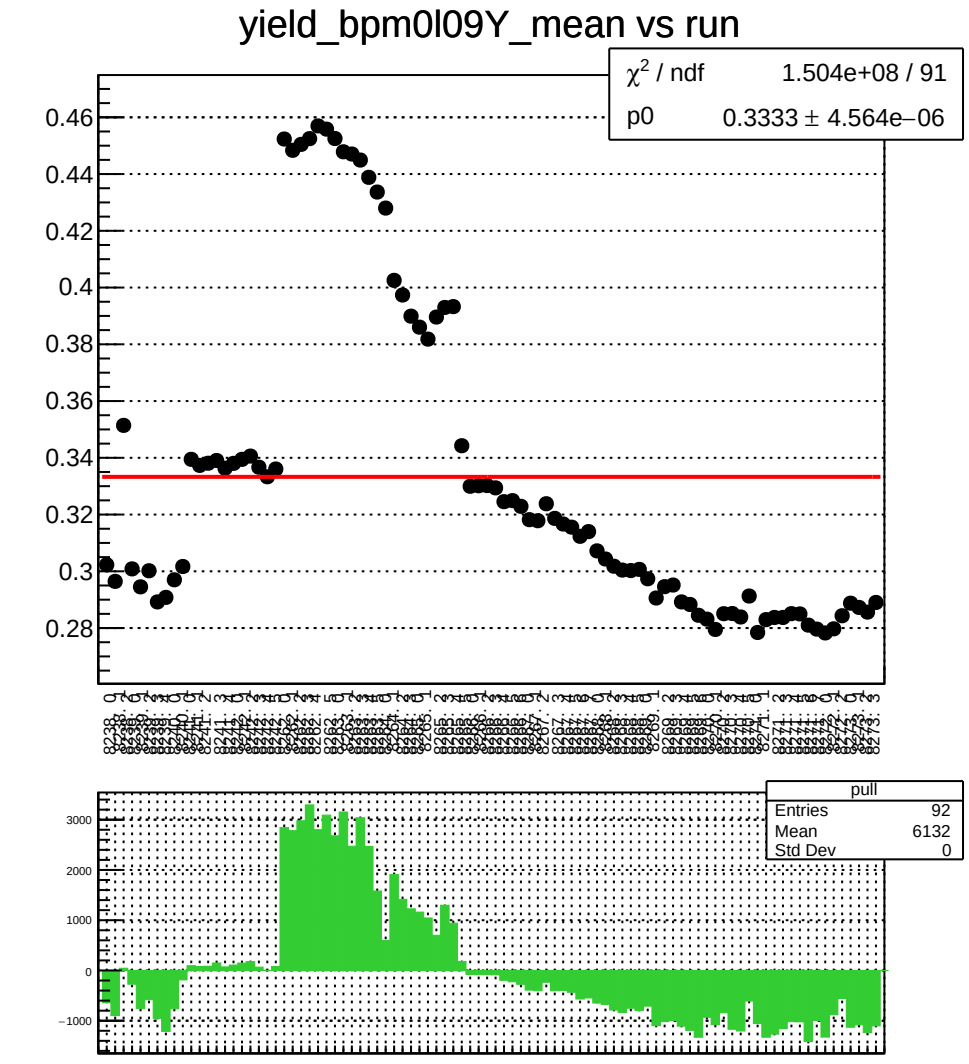

pull1D
Entries 92
Mean −3.128
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

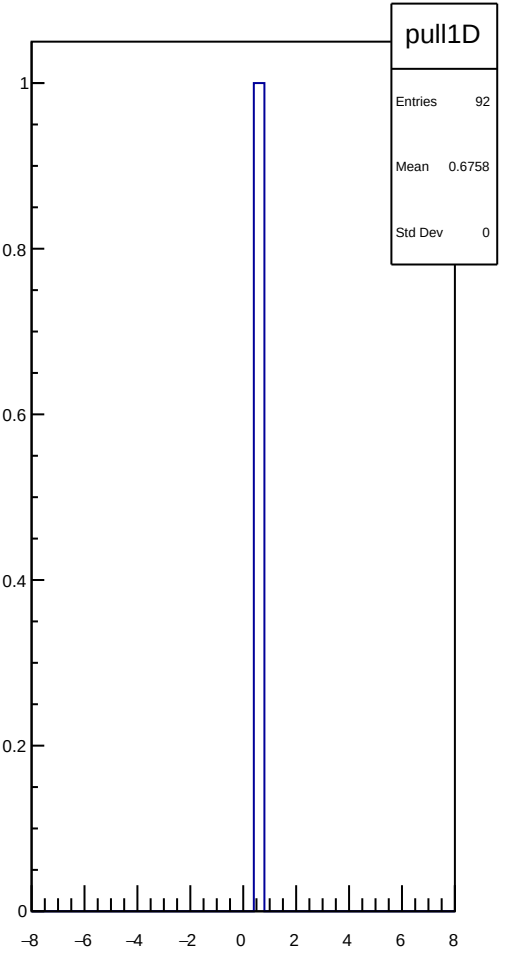

yield_bpm0l08Y_rms vs run
χ² / ndf 9.728e+04 / 91
p0 0.004311 ± 3.321e−06
0.03
0.025
0.02
0.015
0.01
0.005

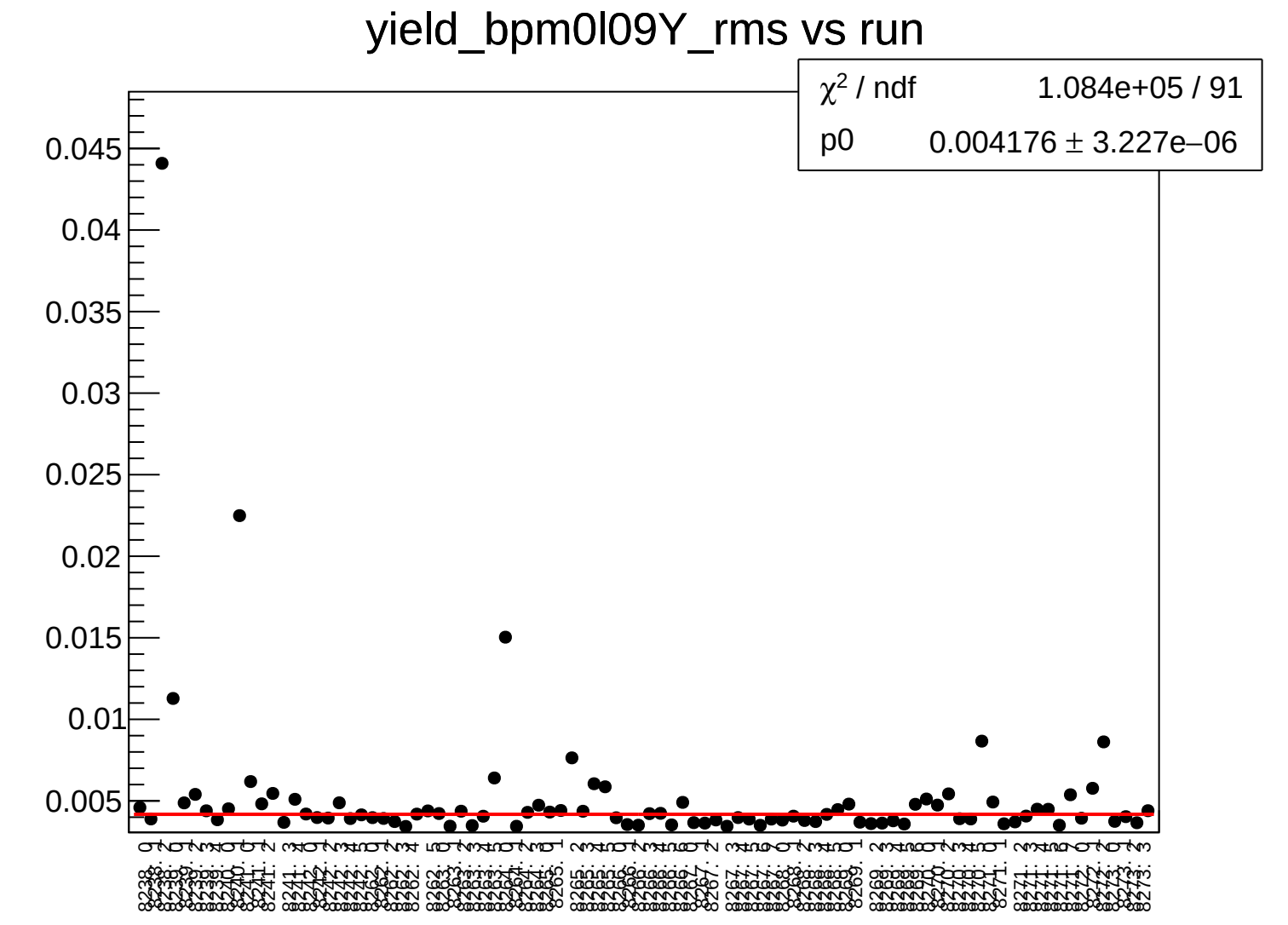

yield_bpm0l09X_mean vs run
χ² / ndf 2.825e+08 / 91
p0 0.6909 ± 1.879e−05
pull
Entries 92
Mean 592.7
Std Dev 0

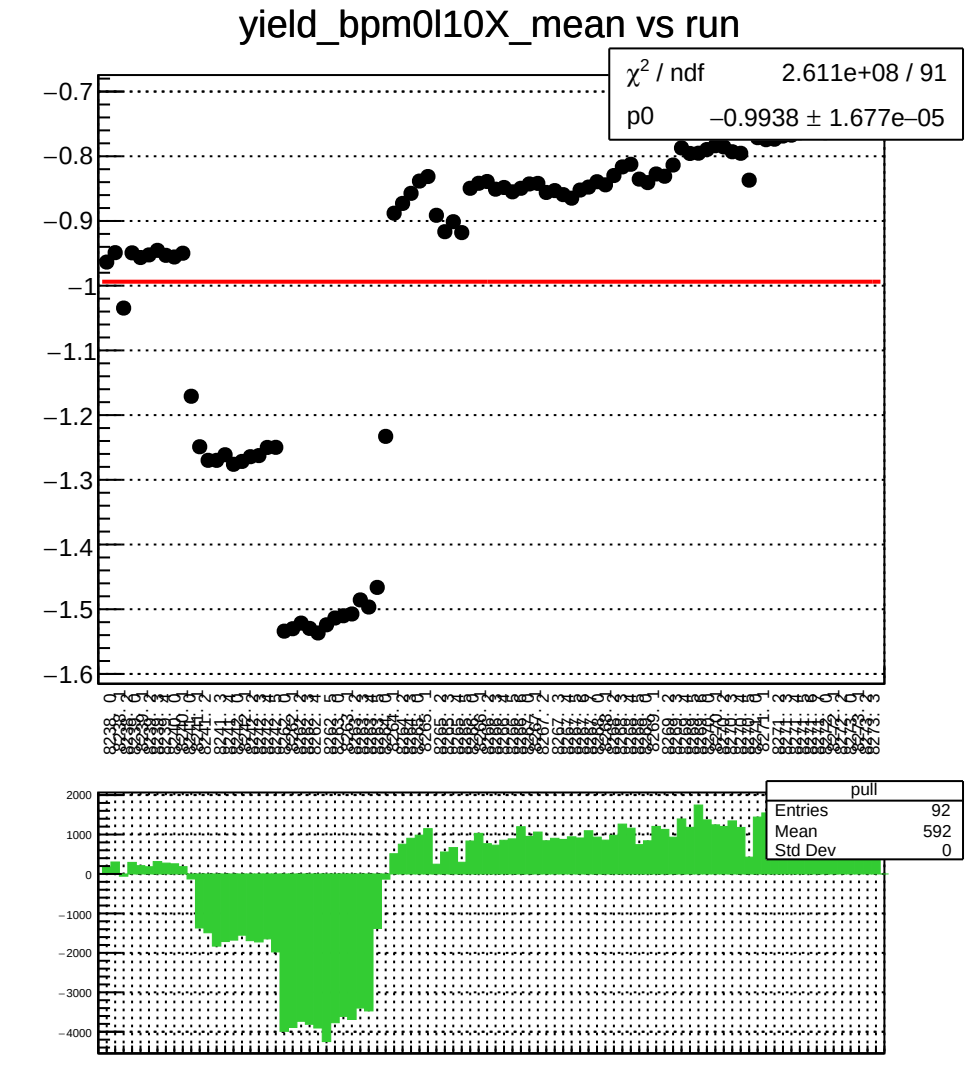

pull1D
Entries 92
Mean 0
Std Dev 0

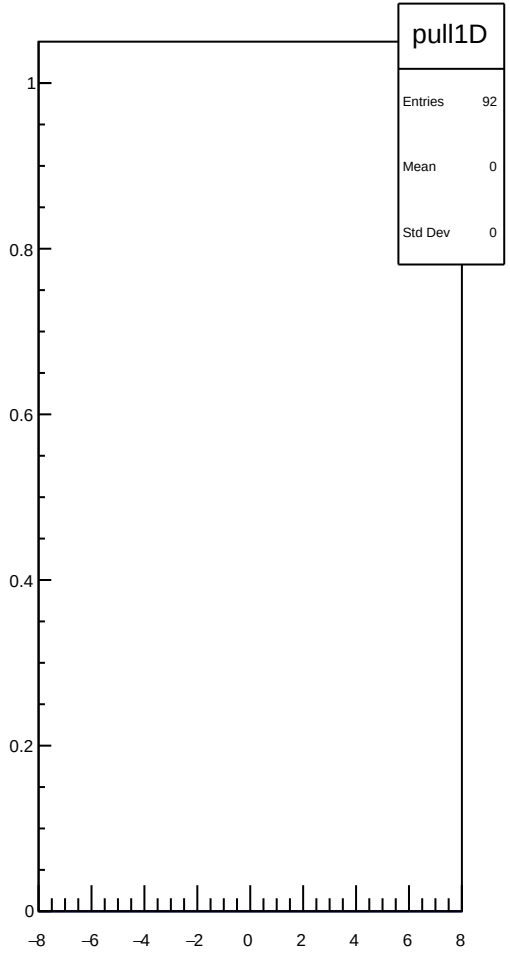

yield_bpm0l09X_rms vs run
χ² / ndf 1.074e+05 / 91
p0 0.0172 ± 1.328e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

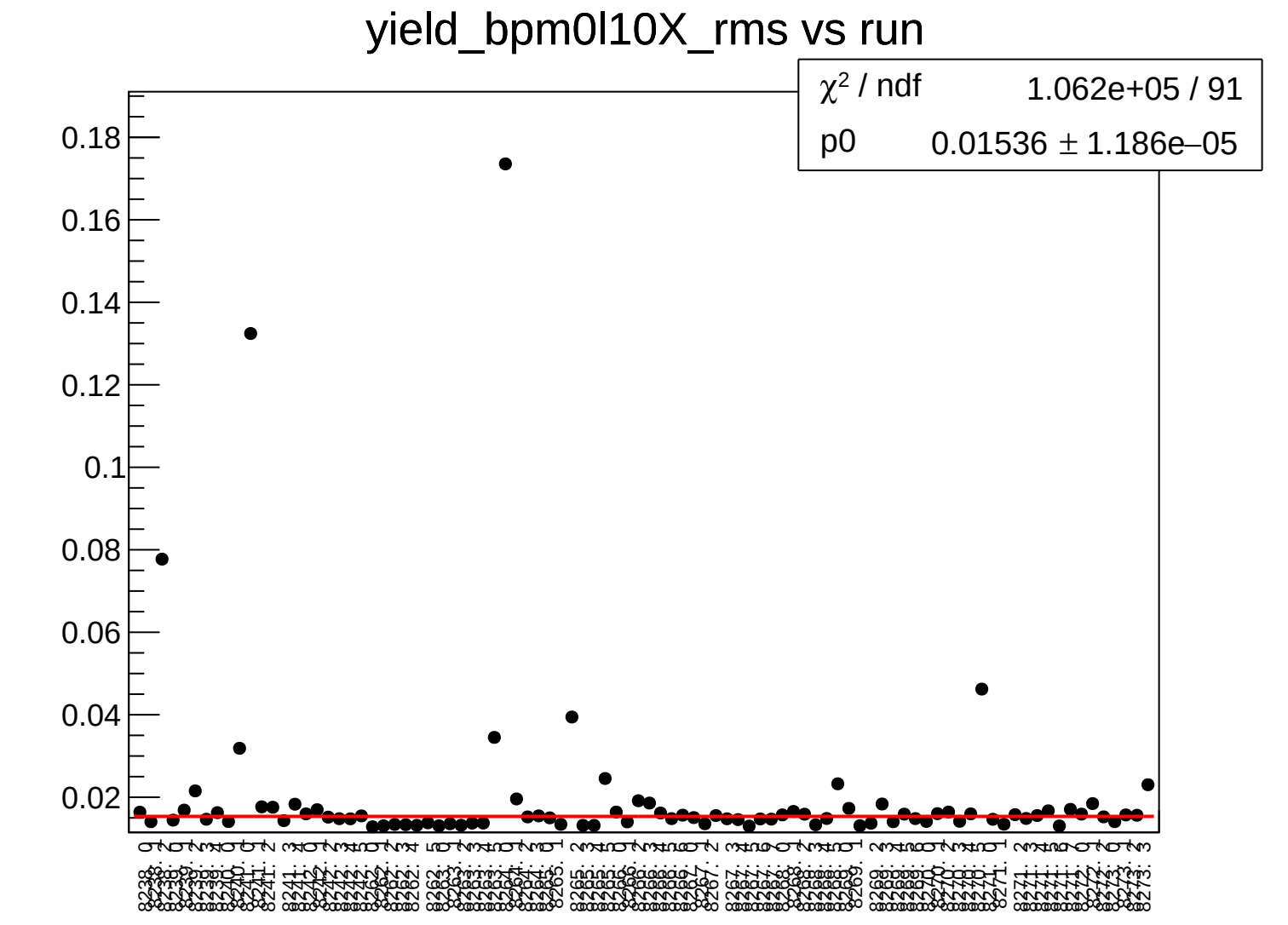

yield_bpm0l09Y_mean vs run
χ² / ndf 1.504e+08 / 91
p0 0.3333 ± 4.564e−06
pull
Entries 92
Mean 6132
Std Dev 0

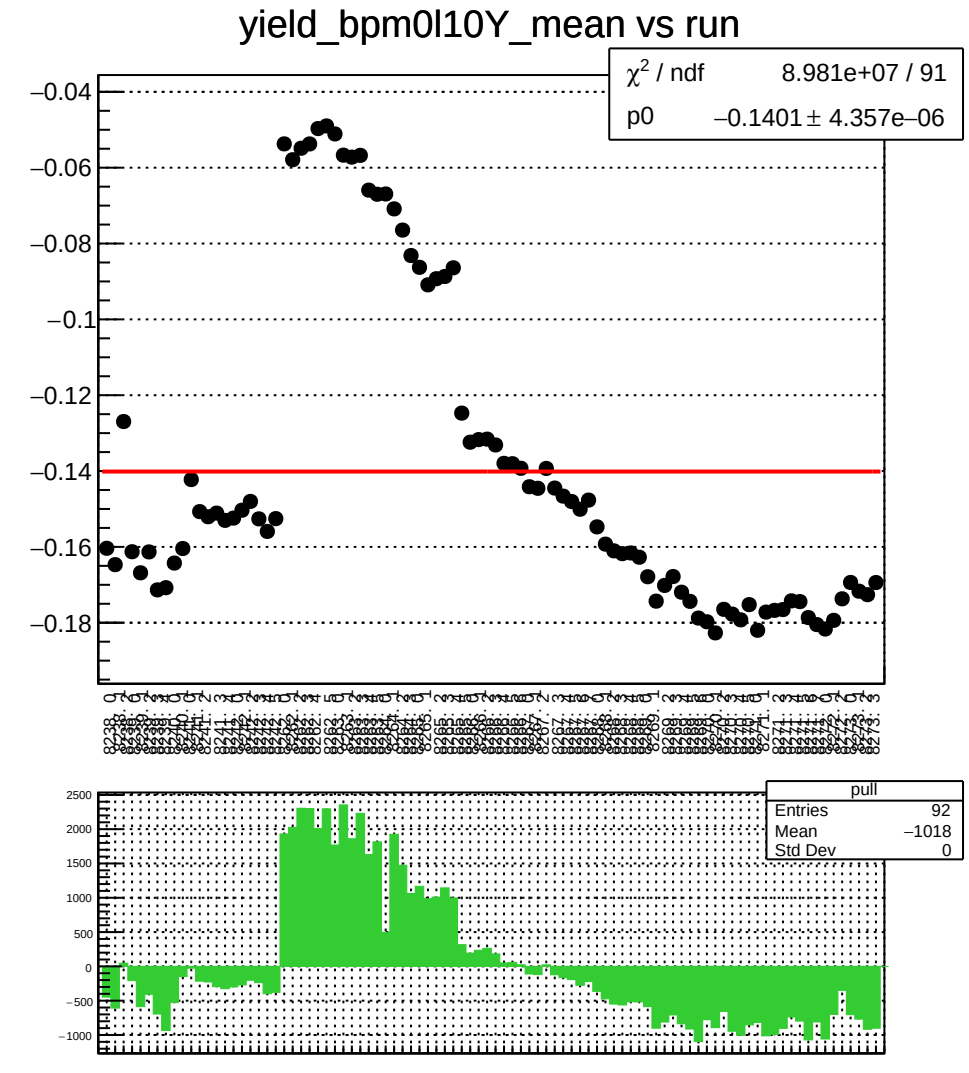

pull1D
Entries 92
Mean 0.6758
Std Dev 0

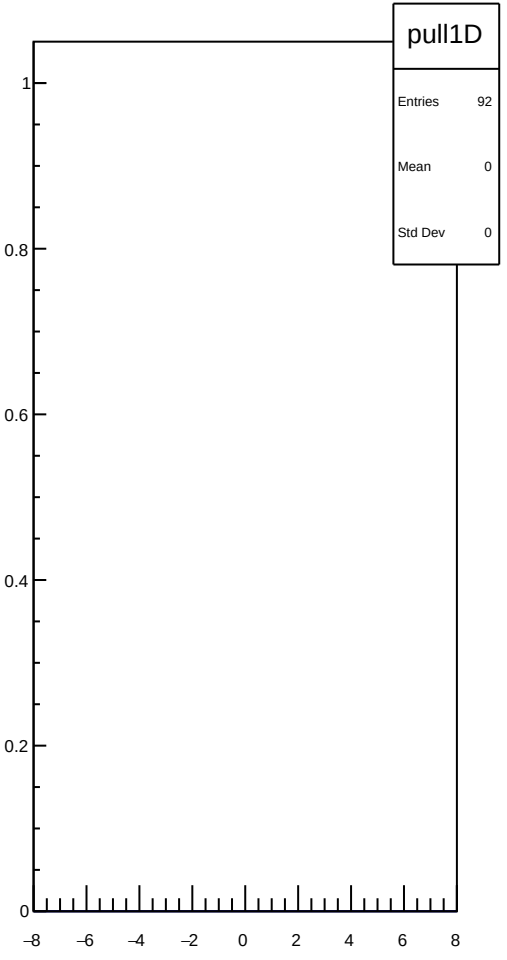

yield_bpm0l09Y_rms vs run
χ² / ndf 1.084e+05 / 91
p0 0.004176 ± 3.227e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

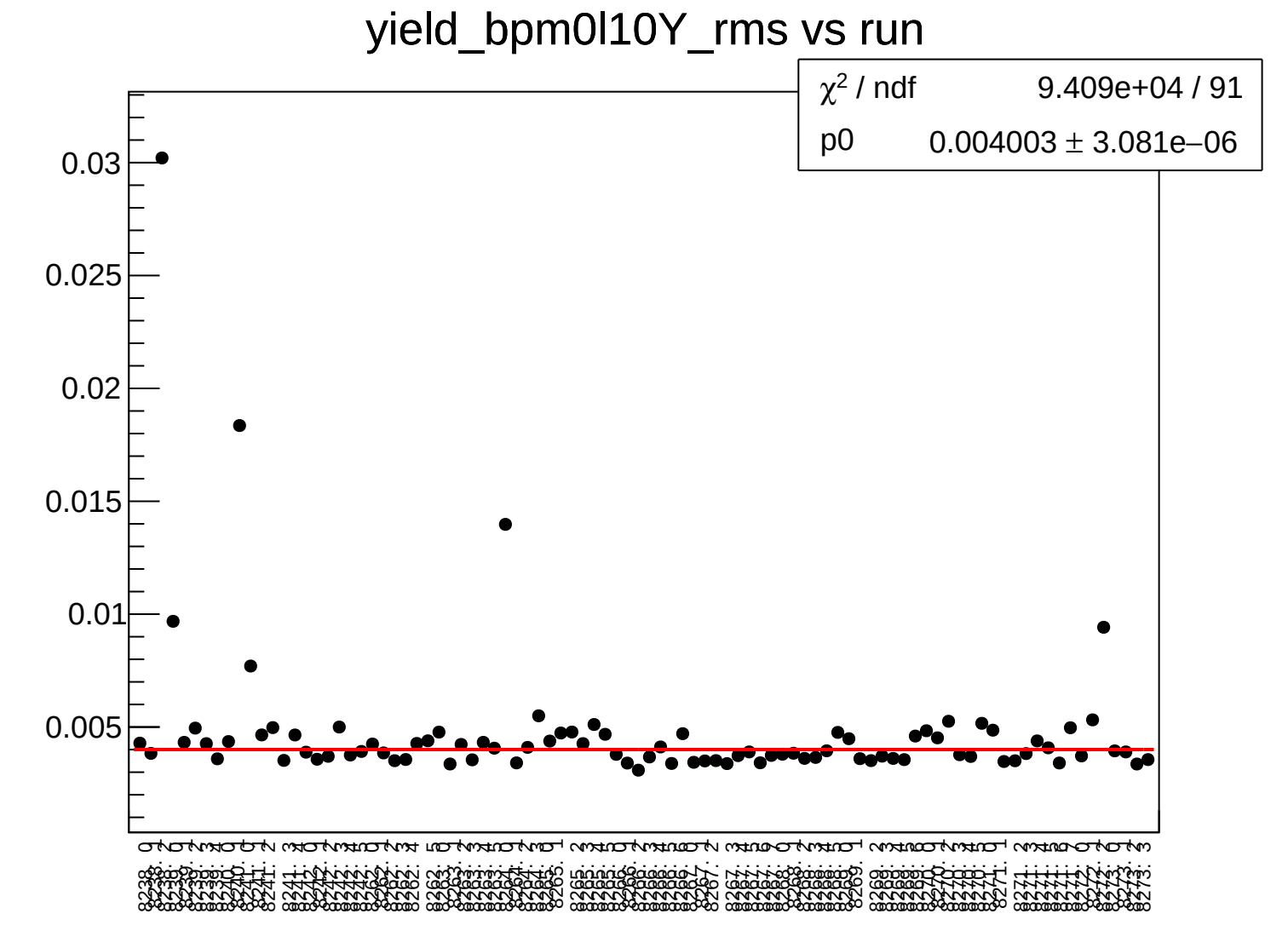

yield_bpm0l10X_mean vs run
χ² / ndf 2.611e+08 / 91
p0 −0.9938 ± 1.677e−05
pull
Entries 92
Mean 592
Std Dev 0

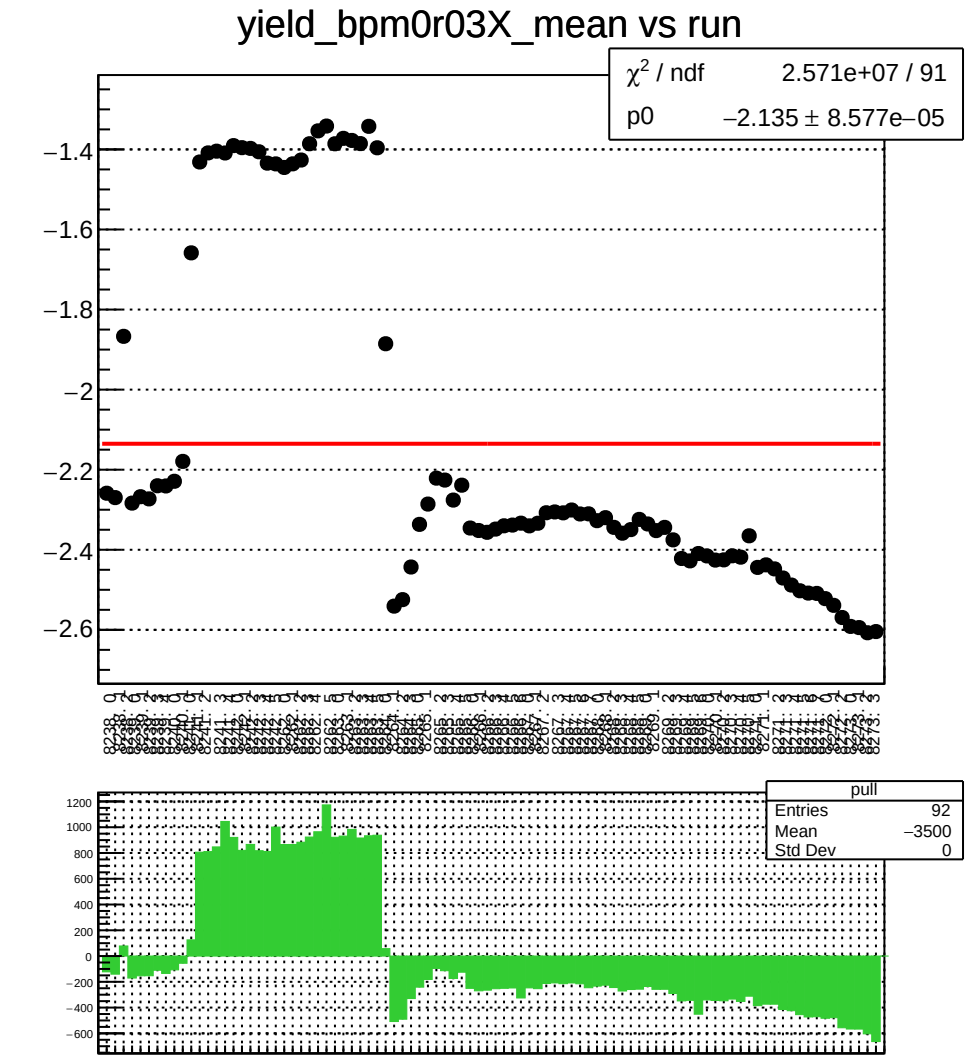

pull1D
Entries 92
Mean 0
Std Dev 0

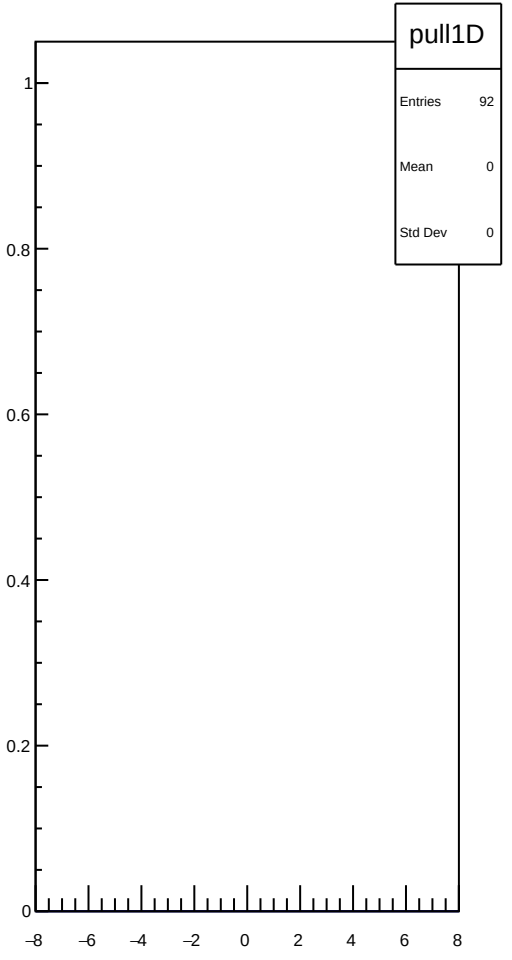

yield_bpm0l10X_rms vs run
χ² / ndf 1.062e+05 / 91
p0 0.01536 ± 1.186e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

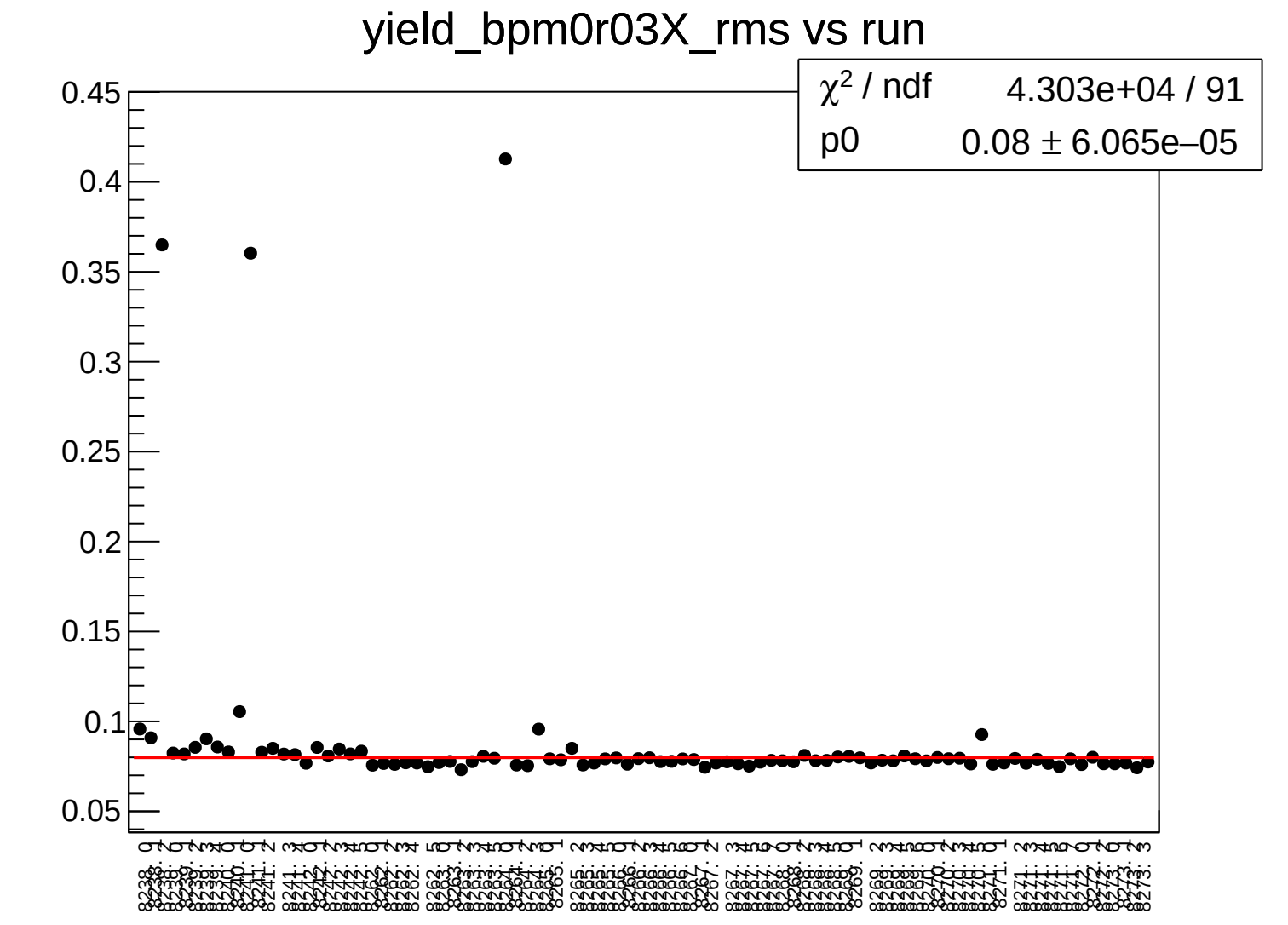

yield_bpm0l10Y_mean vs run
χ² / ndf 8.981e+07 / 91
p0 −0.1401 ± 4.357e−06
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
pull
Entries 92
Mean −1018
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000

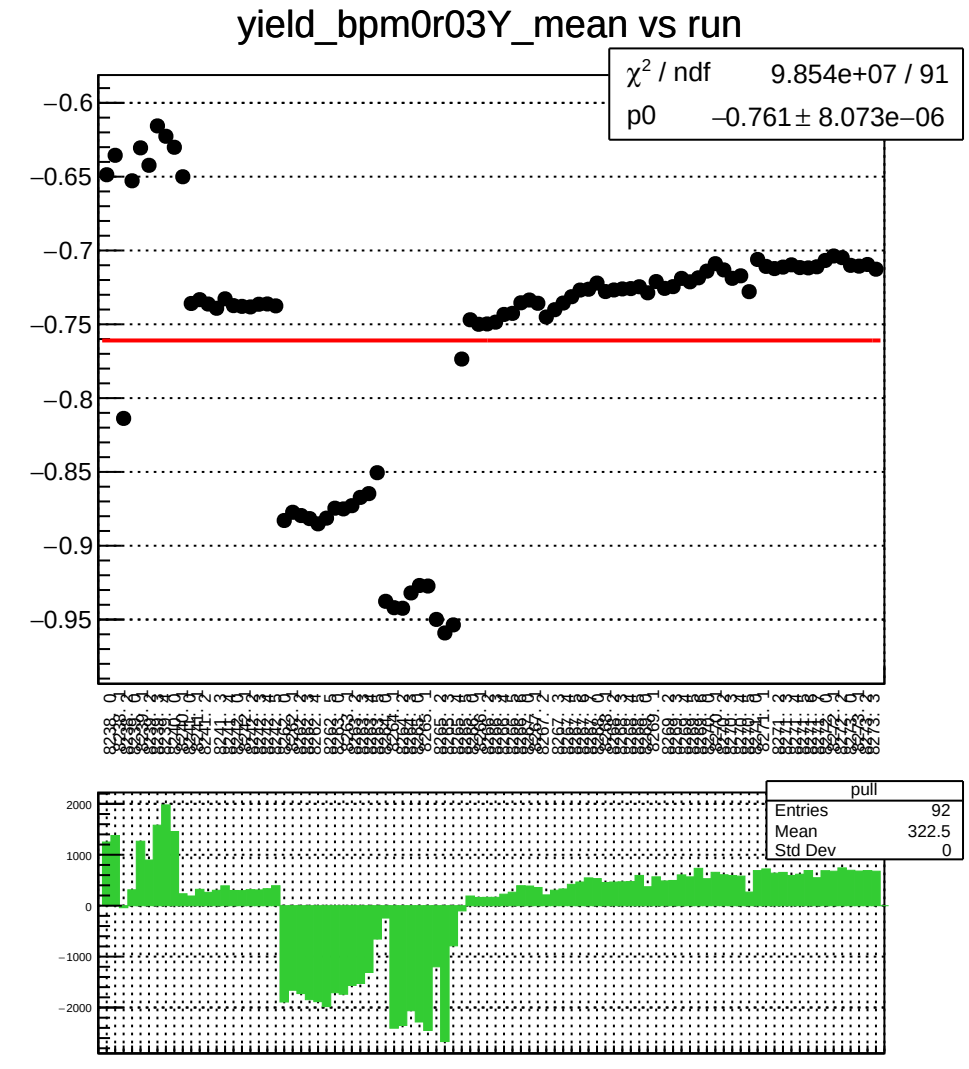

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

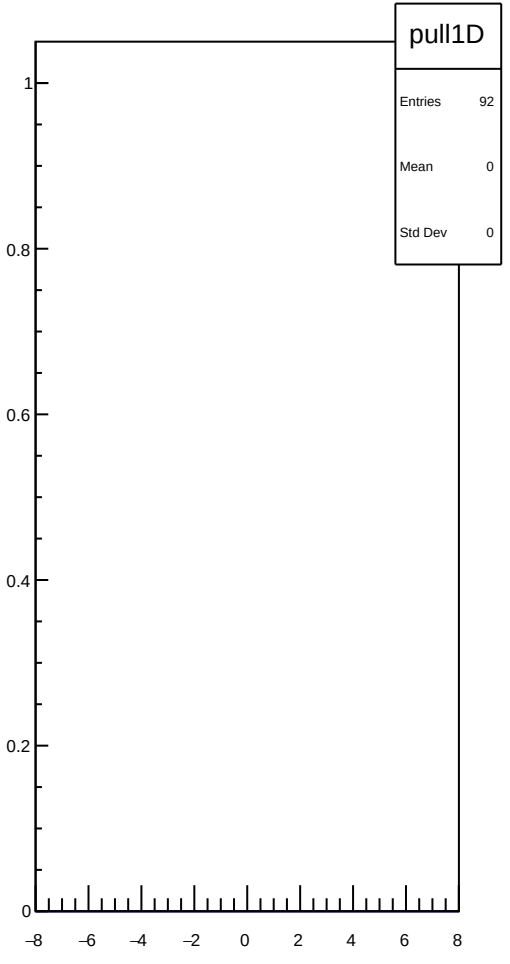

yield_bpm0l10Y_rms vs run
χ² / ndf 9.409e+04 / 91
p0 0.004003 ± 3.081e−06
0.03
0.025
0.02
0.015
0.01
0.005

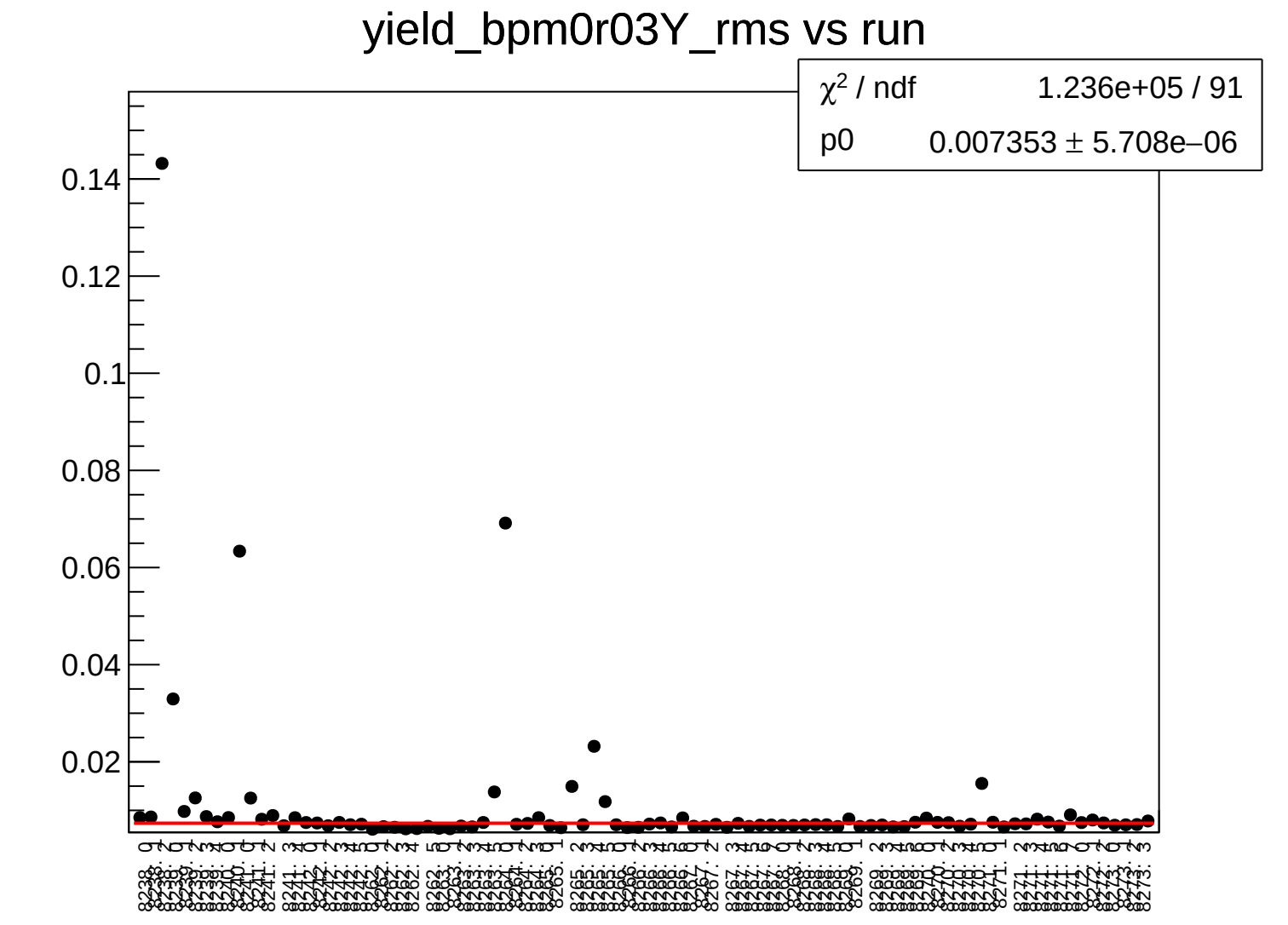

yield_bpm0r03X_mean vs run
χ² / ndf 2.571e+07 / 91
p0 −2.135 ± 8.577e−05
−1.4
−1.6
−1.8
−2
−2.2
−2.4
−2.6
pull
Entries 92
Mean −3500
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600

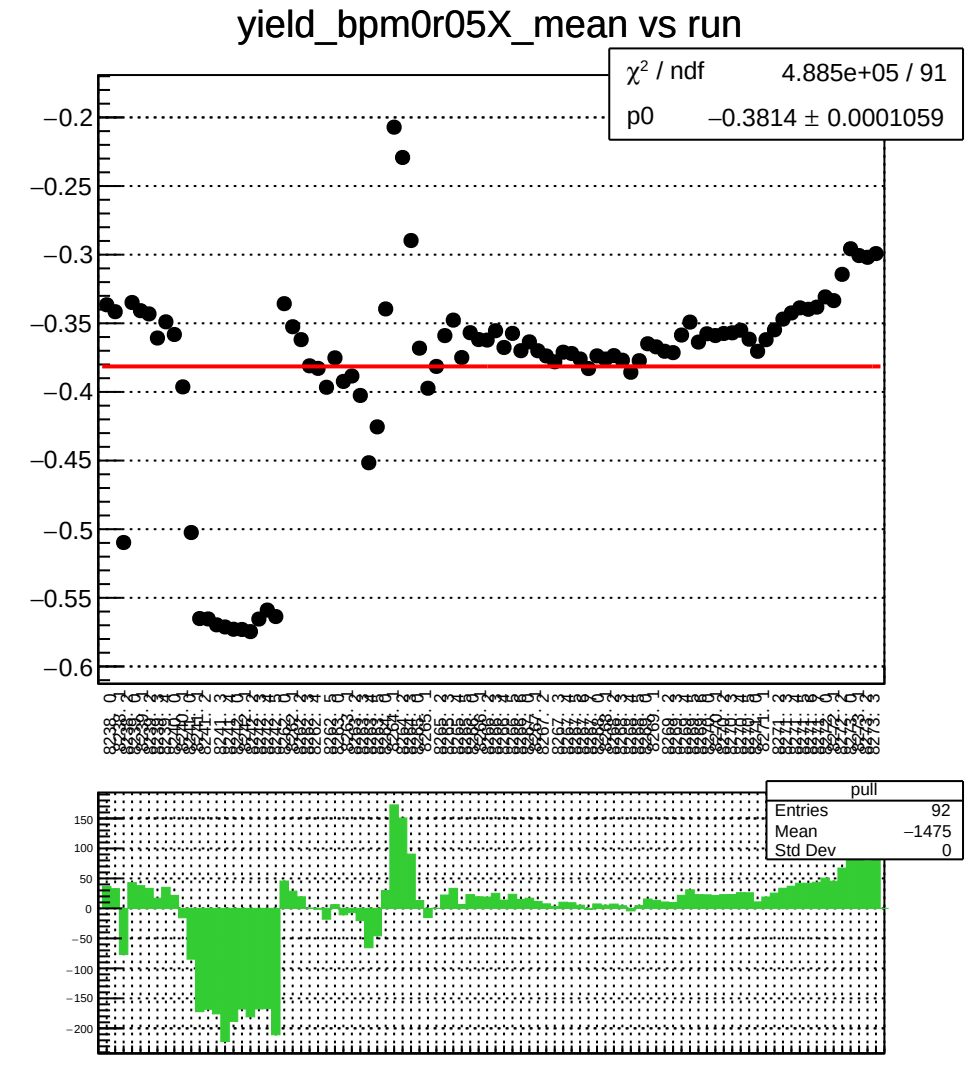

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

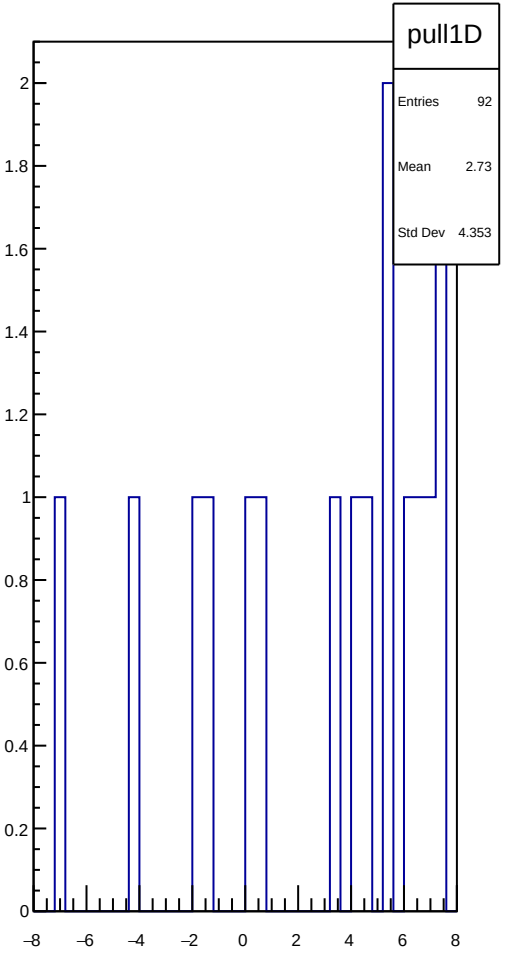

yield_bpm0r03X_rms vs run
$\chi^2$ / ndf 4.303e+04 / 91
p0 0.08 ± 6.065e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

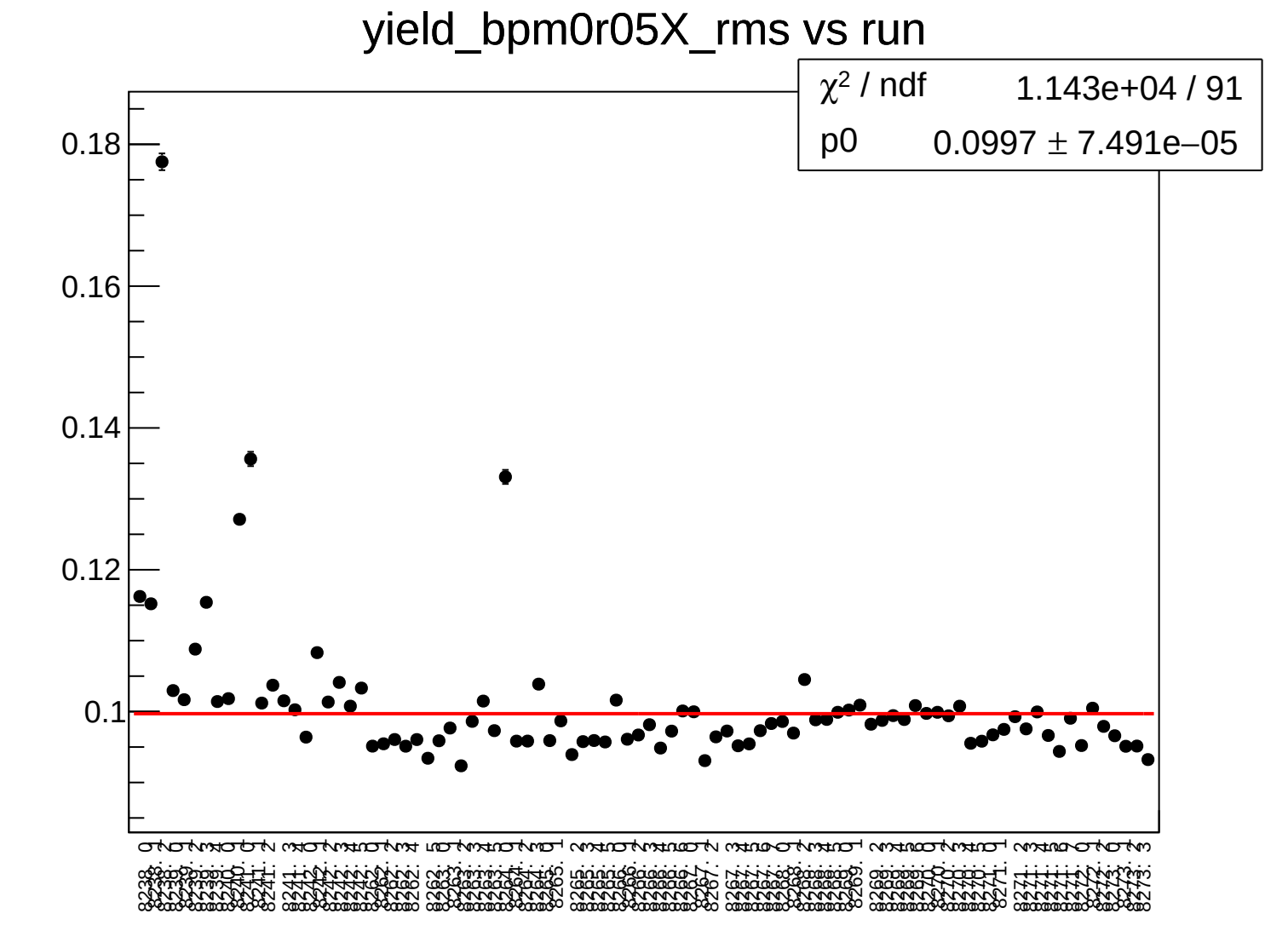

yield_bpm0r03Y_mean vs run
χ² / ndf 9.854e+07 / 91
p0 −0.761 ± 8.073e−06
−0.6
−0.65
−0.7
−0.75
−0.8
−0.85
−0.9
−0.95
pull
Entries 92
Mean 322.5
Std Dev 0
2000
1000
0
−1000
−2000

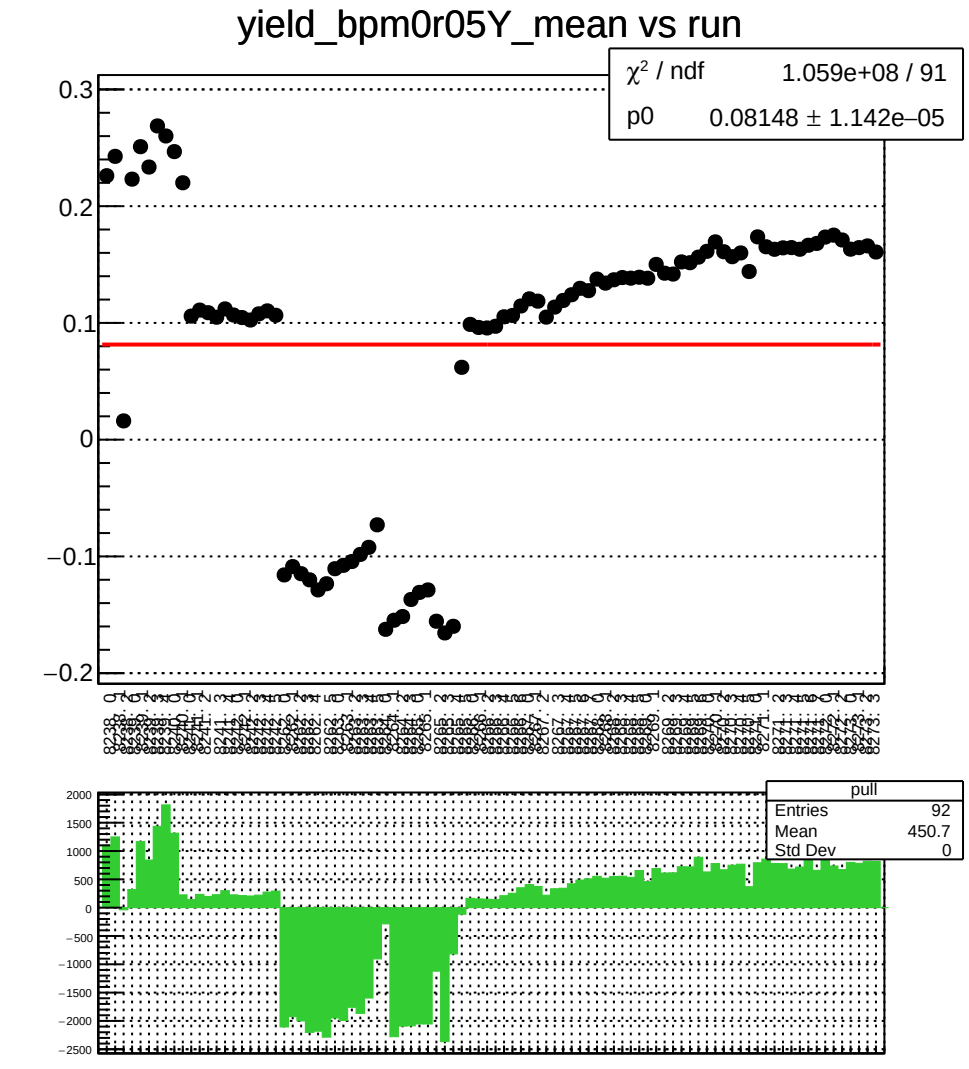

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

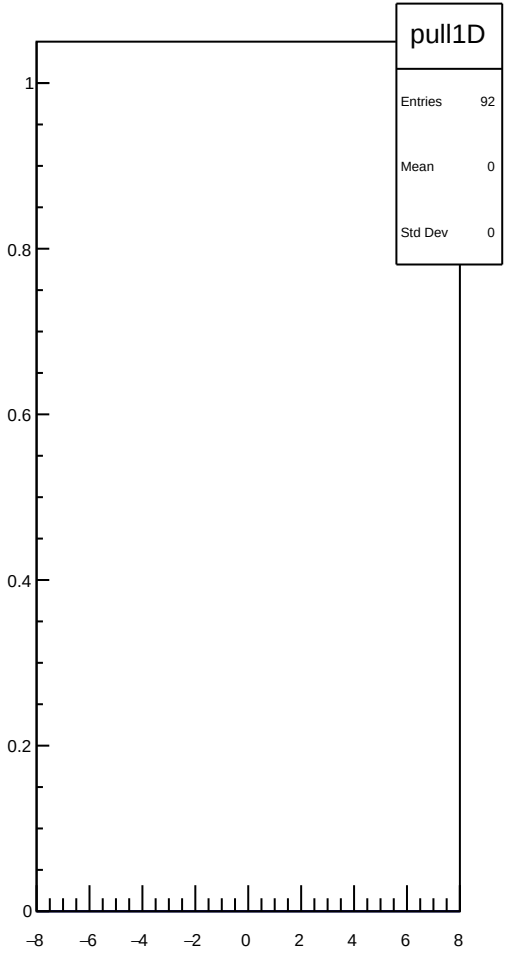

yield_bpm0r03Y_rms vs run
χ² / ndf 1.236e+05 / 91
p0 0.007353 ± 5.708e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

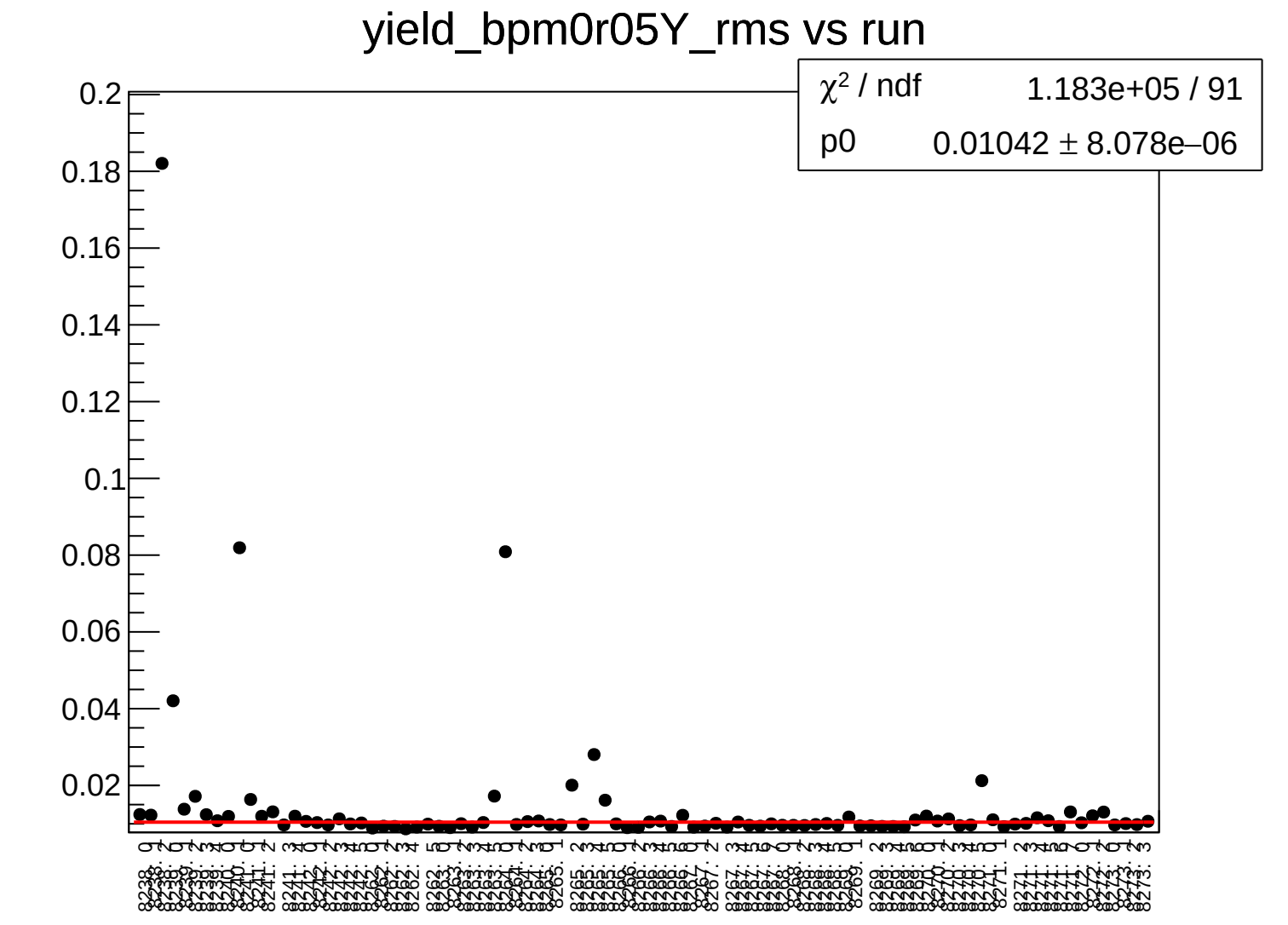

yield_bpm0r05X_mean vs run
χ² / ndf 4.885e+05 / 91
p0 −0.3814 ± 0.0001059
pull
Entries 92
Mean −1475
Std Dev 0

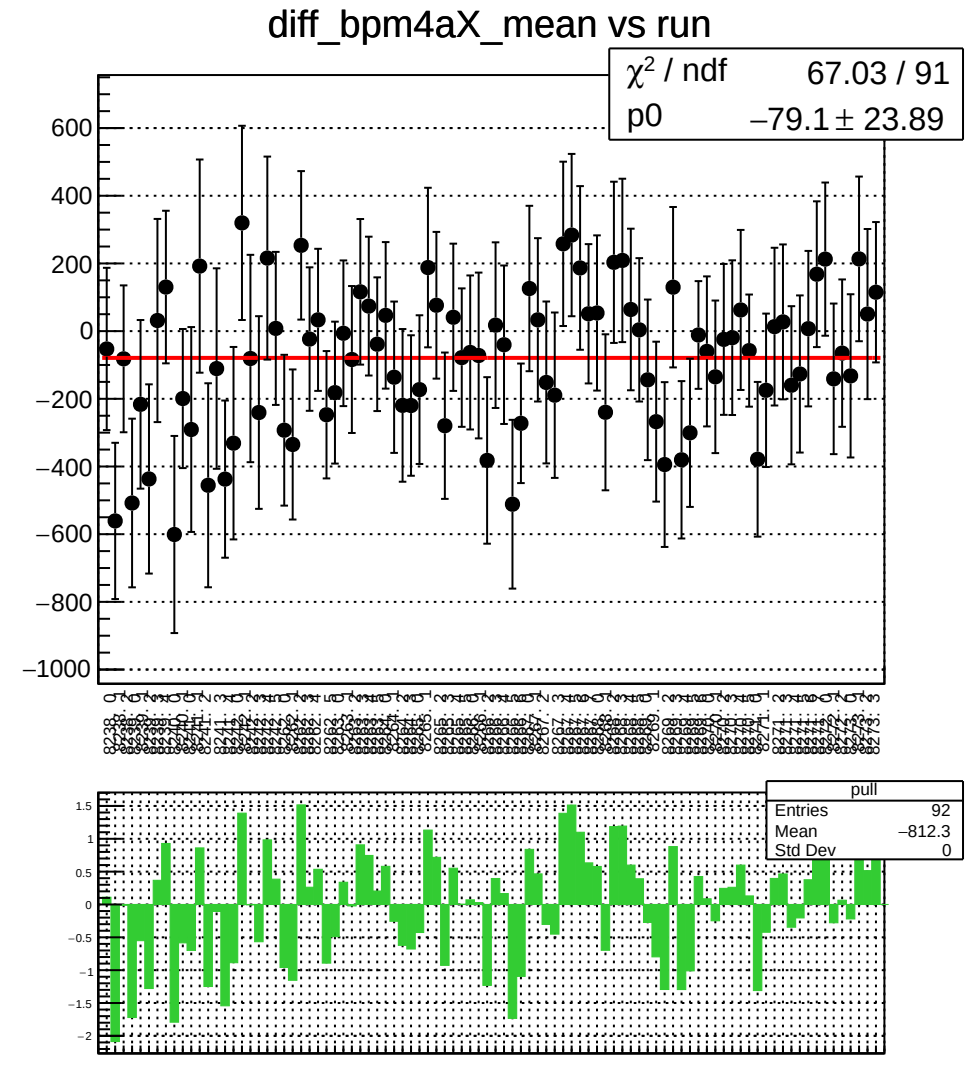

pull1D
Entries 92
Mean 2.73
Std Dev 4.353

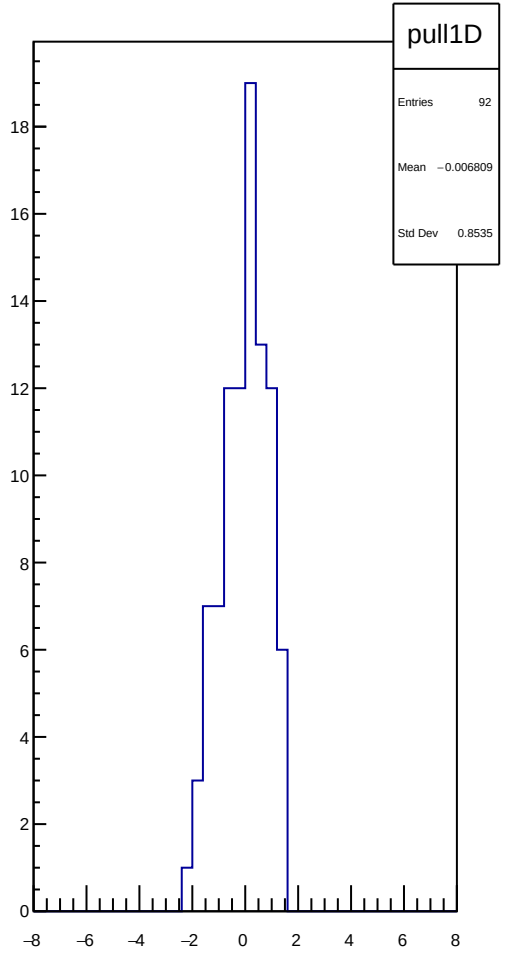

yield_bpm0r05X_rms vs run
χ² / ndf 1.143e+04 / 91
p0 0.0997 ± 7.491e−05
0.18
0.16
0.14
0.12
0.1

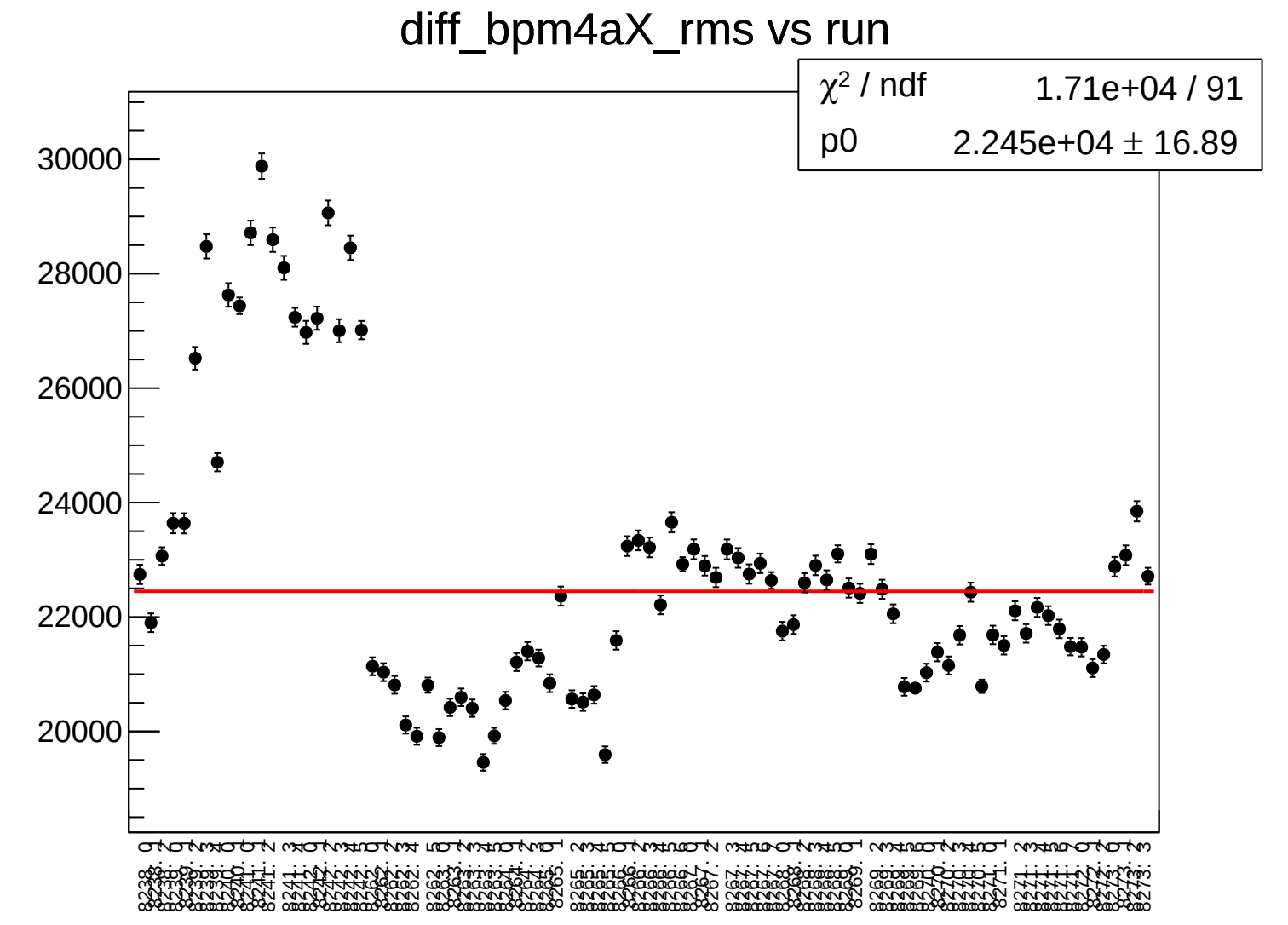

yield_bpm0r05Y_mean vs run
χ² / ndf 1.059e+08 / 91
p0 0.08148 ± 1.142e−05
pull
Entries 92
Mean 450.7
Std Dev 0

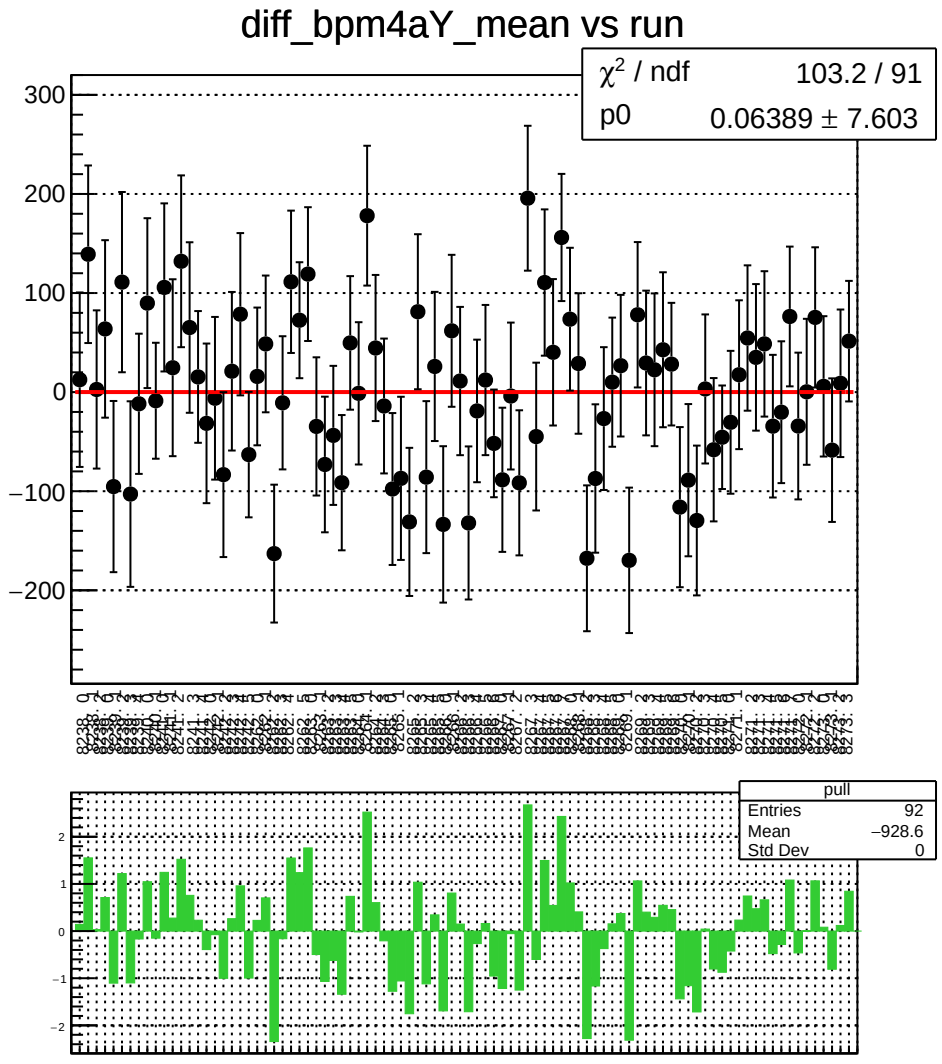

pull1D
Entries 92
Mean 0
Std Dev 0

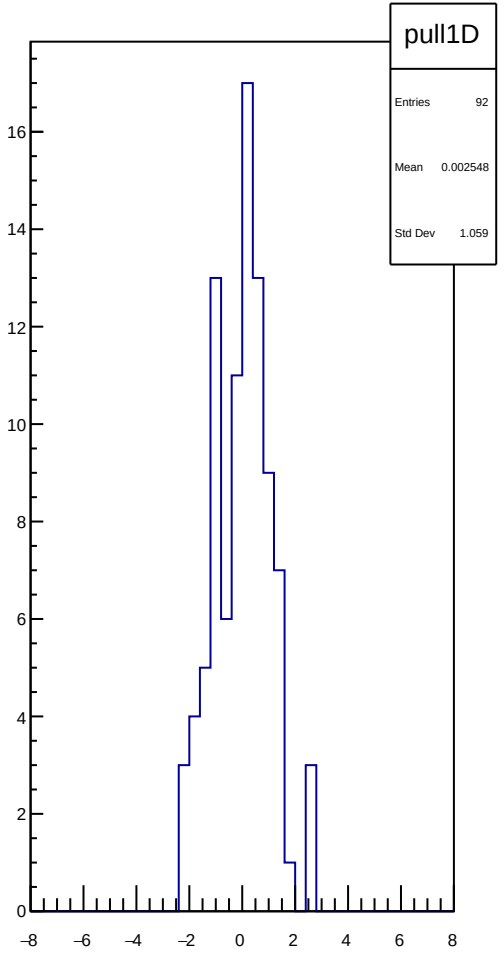

yield_bpm0r05Y_rms vs run
χ² / ndf 1.183e+05 / 91
p0 0.01042 ± 8.078e–06
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

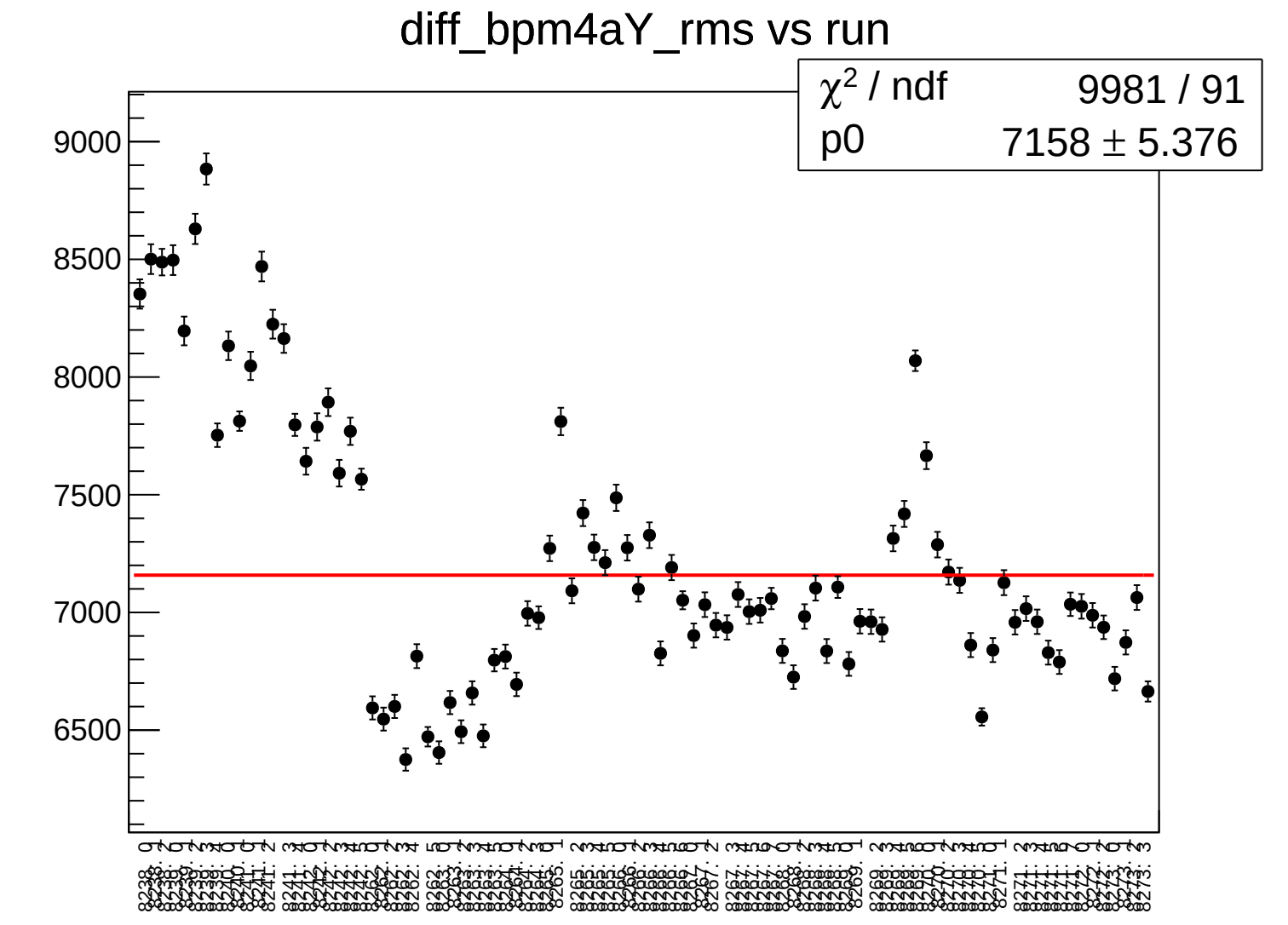

diff_bpm4aX_mean vs run
χ² / ndf 67.03 / 91
p0 −79.1 ± 23.89
pull
Entries 92
Mean −812.3
Std Dev 0

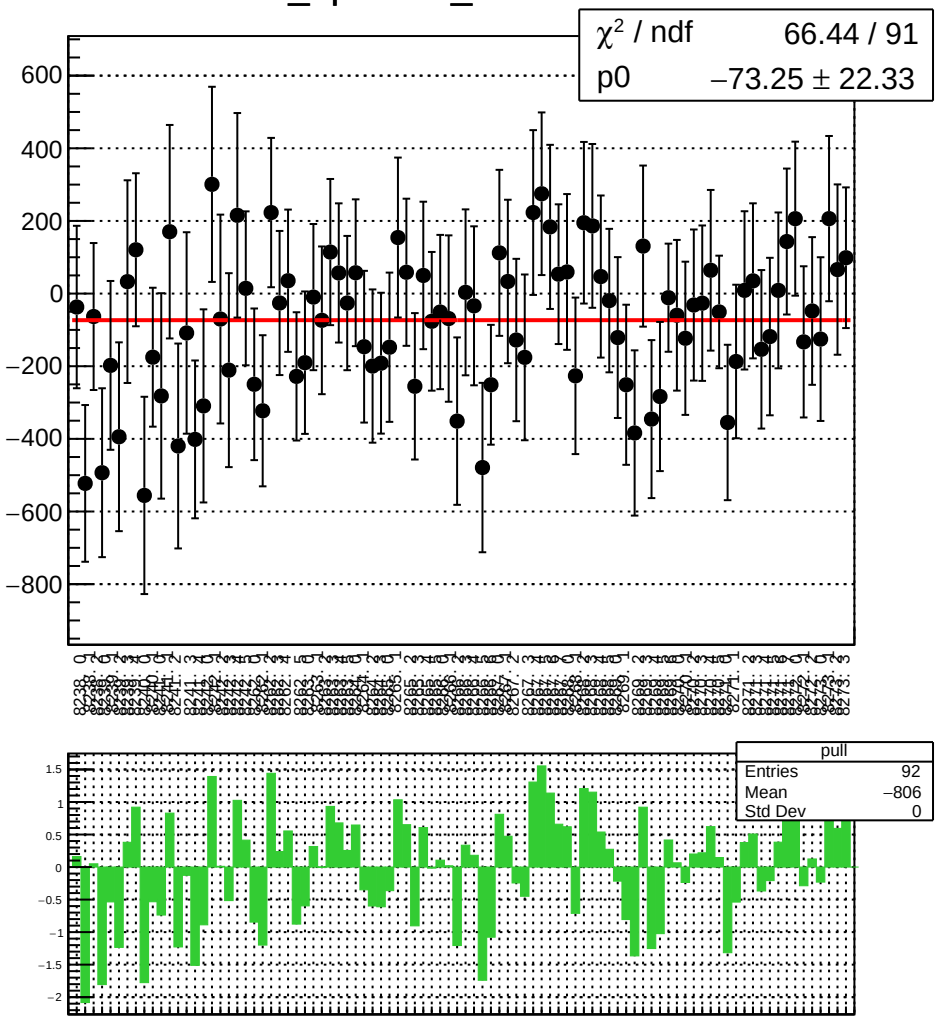

pull1D
Entries 92
Mean −0.006809
Std Dev 0.8535

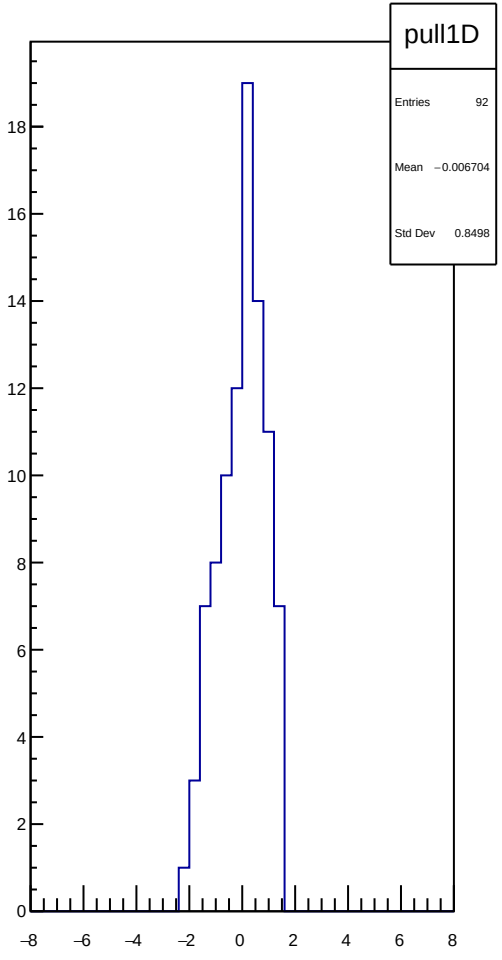

diff_bpm4aX_rms vs run
χ² / ndf 1.71e+04 / 91
p0 2.245e+04 ± 16.89
30000
28000
26000
24000
22000
20000

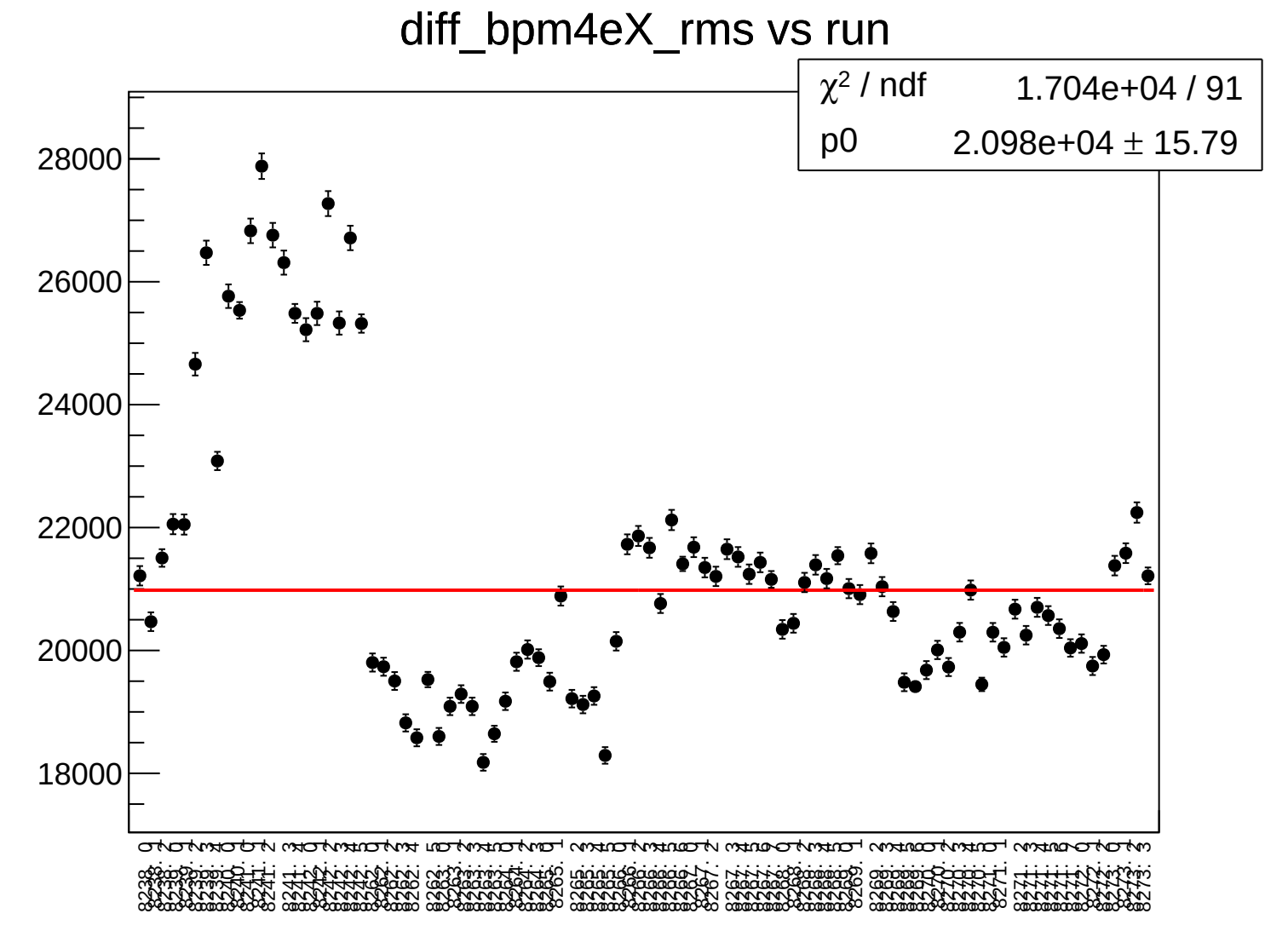

diff_bpm4aY_mean vs run
χ² / ndf 103.2 / 91
p0 0.06389 ± 7.603
pull
Entries 92
Mean −928.6
Std Dev 0

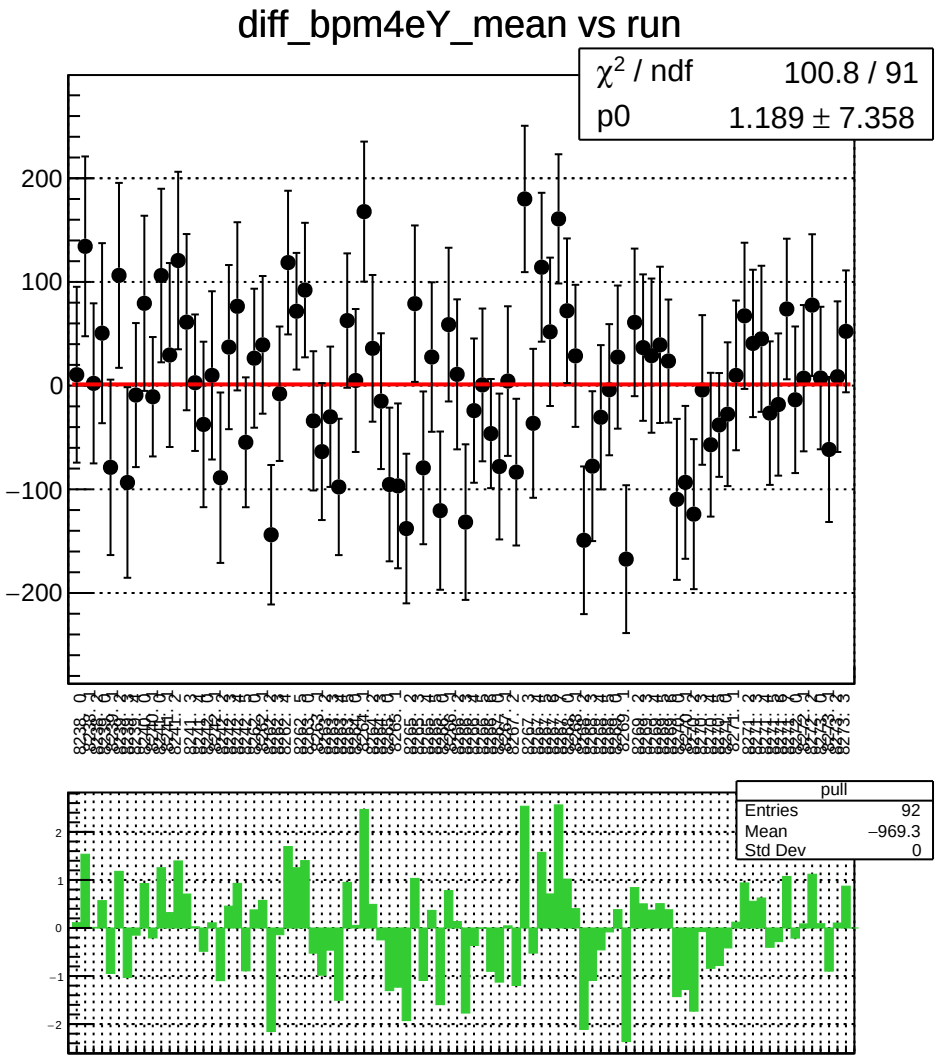

pull1D
Entries 92
Mean 0.002548
Std Dev 1.059

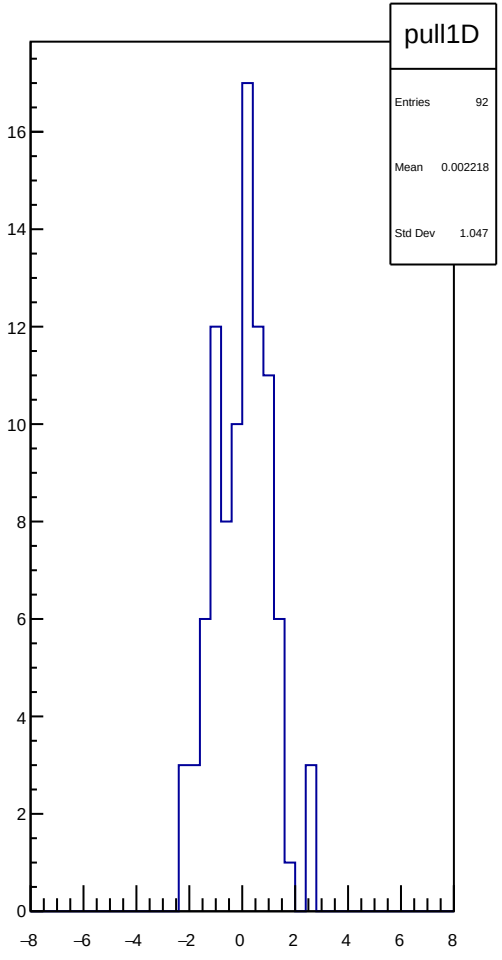

diff_bpm4aY_rms vs run
$\chi^2$ / ndf 9981 / 91
p0 7158 ± 5.376
9000
8500
8000
7500
7000
6500

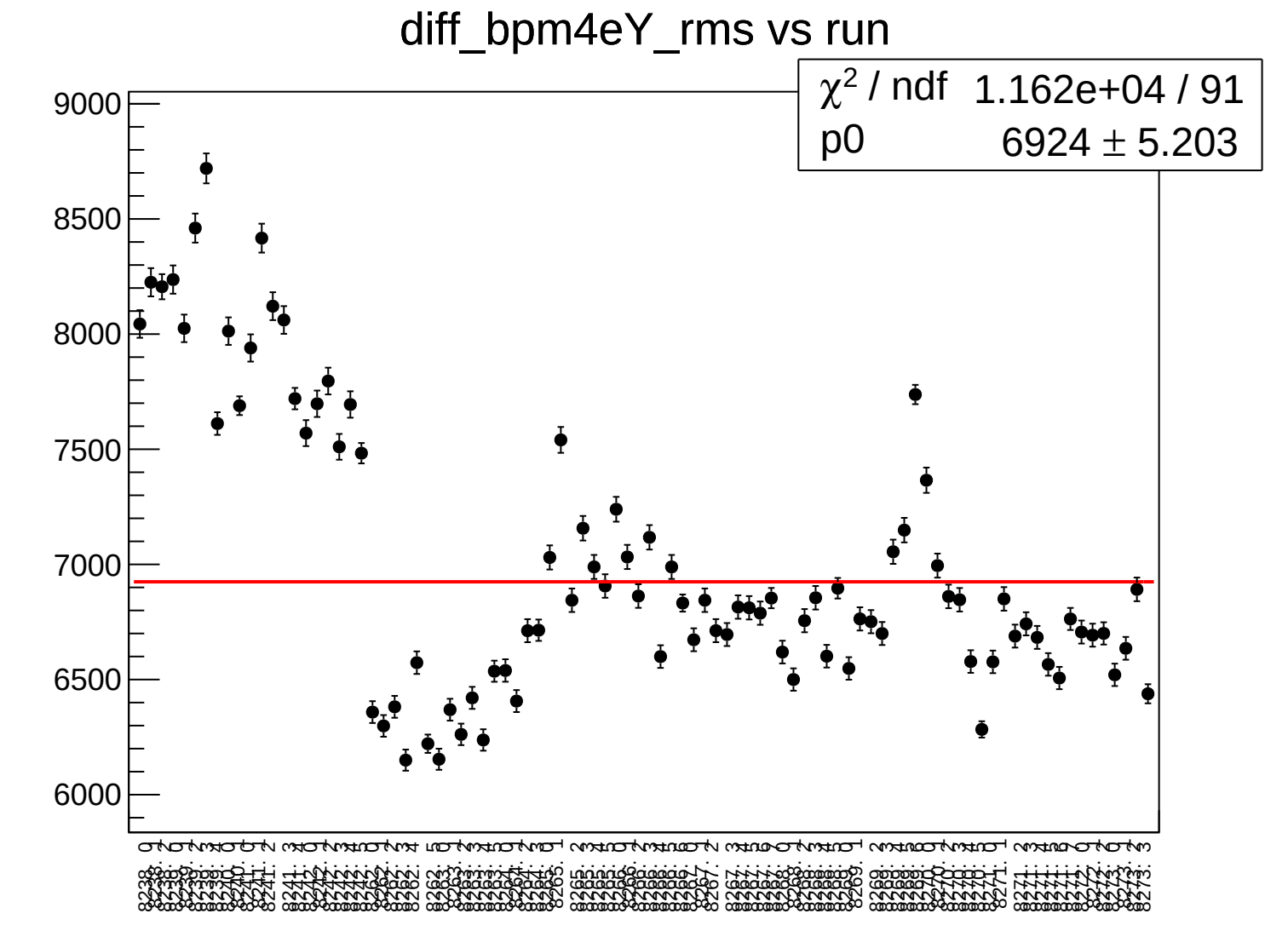

diff_bpm4eX_mean vs run
χ² / ndf 66.44 / 91
p0 −73.25 ± 22.33
pull
Entries 92
Mean −806
Std Dev 0

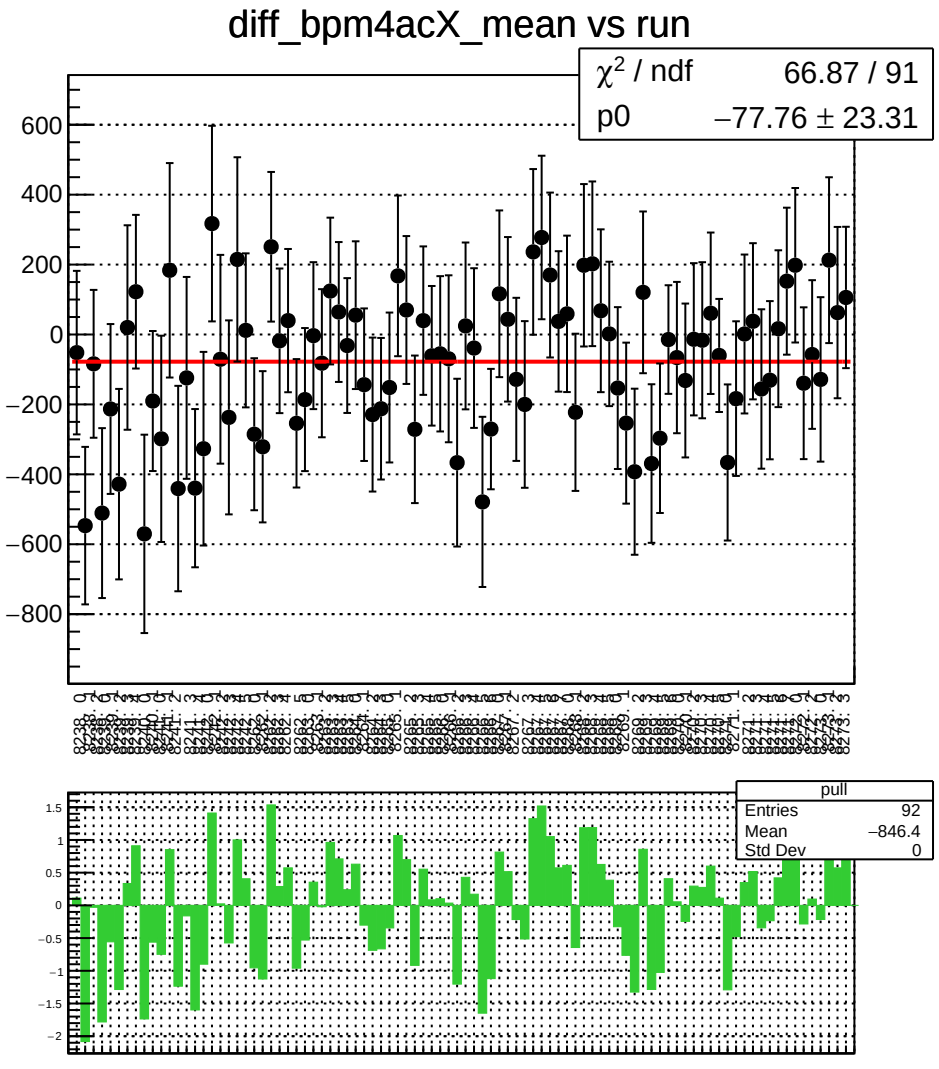

pull1D
Entries 92
Mean −0.006704
Std Dev 0.8498

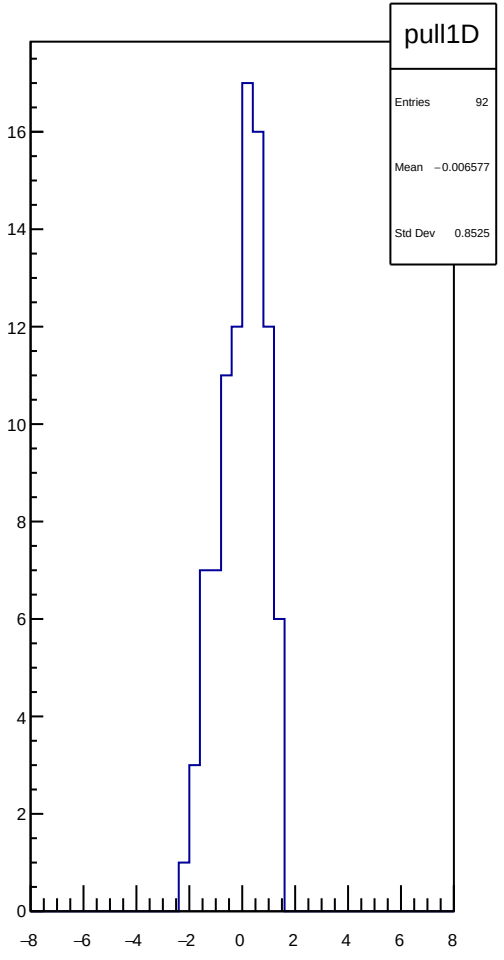

diff_bpm4eX_rms vs run
χ² / ndf 1.704e+04 / 91
p0 2.098e+04 ± 15.79
28000
26000
24000
22000
20000
18000

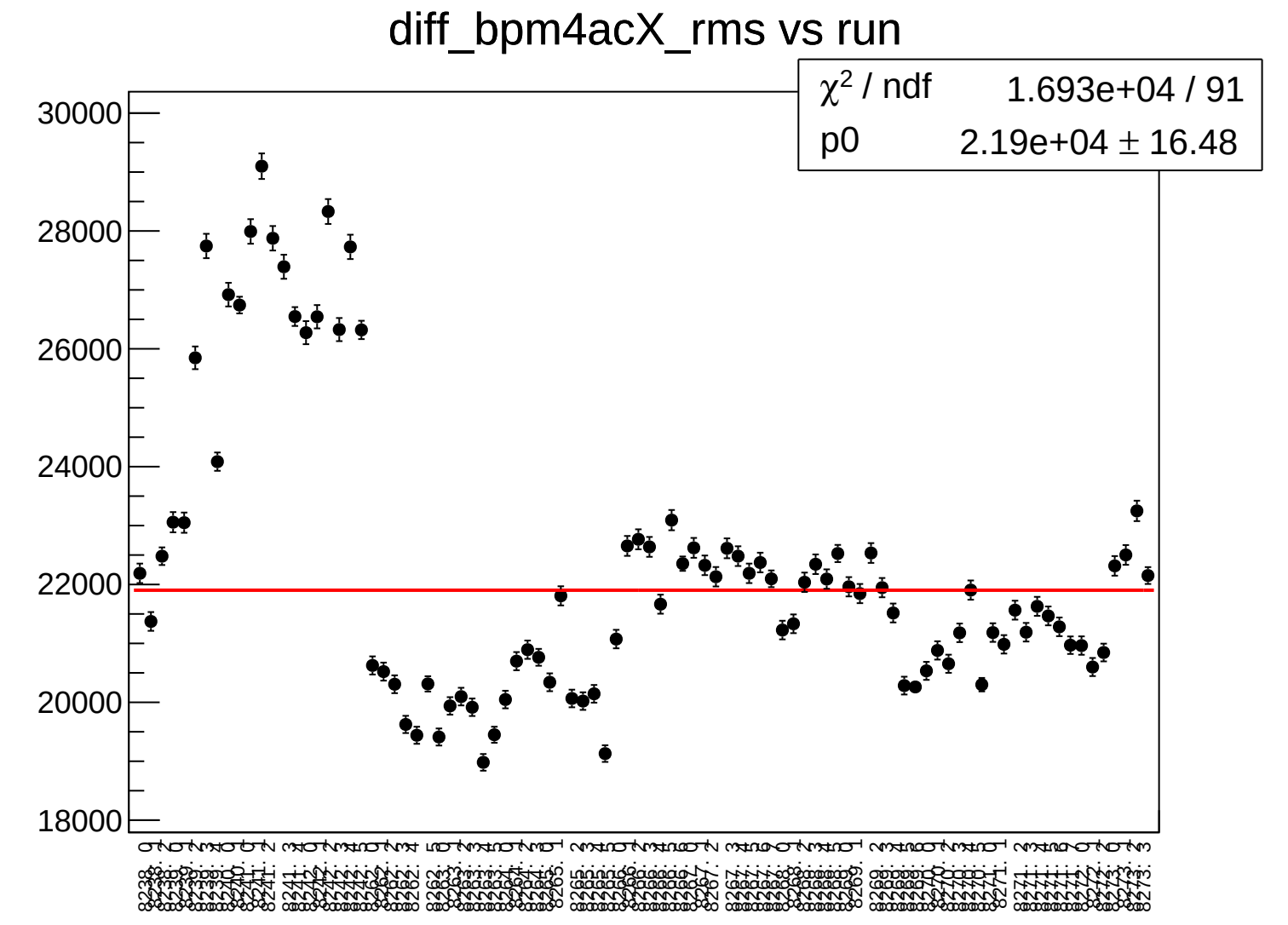

diff_bpm4eY_mean vs run
$\chi^2$ / ndf 100.8 / 91
p0 1.189 ± 7.358
200
100
0
−100
−200
pull
Entries 92
Mean −969.3
Std Dev 0
2
1
0
−1
−2

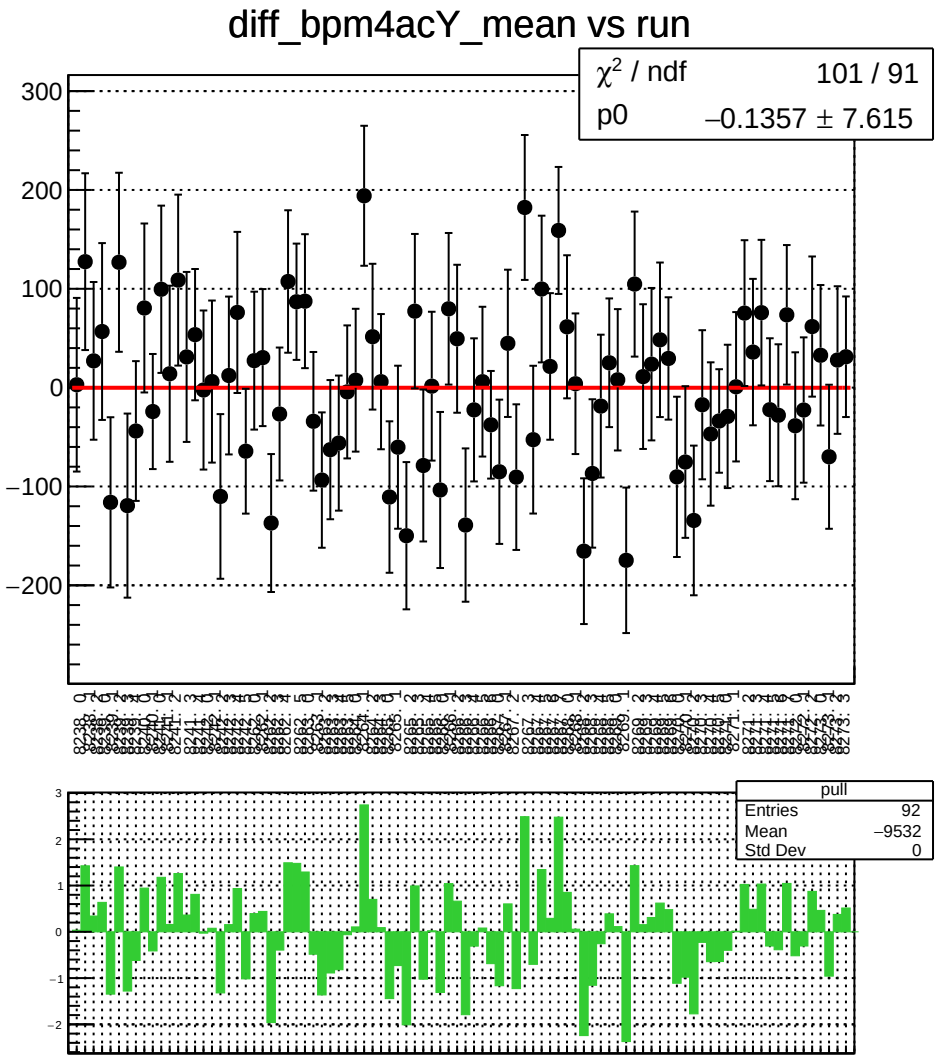

pull1D
Entries 92
Mean 0.002218
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

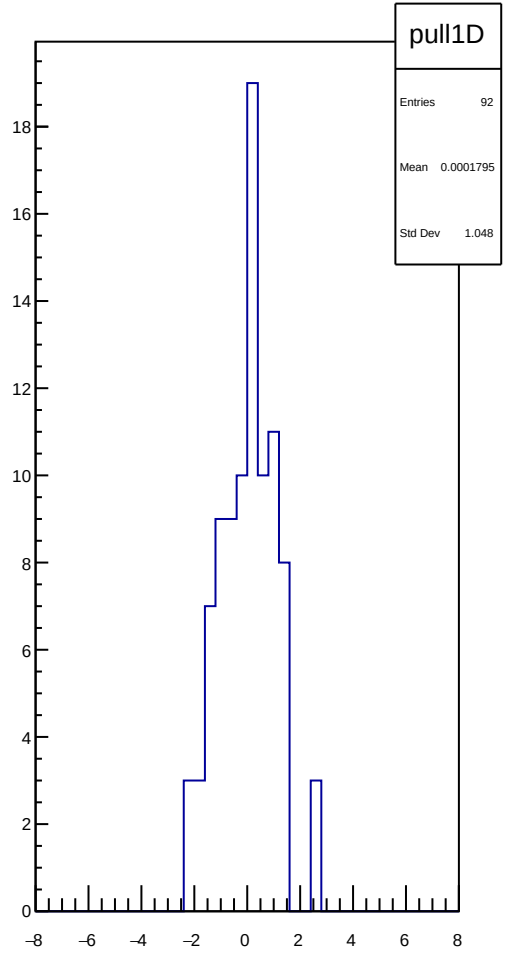

diff_bpm4eY_rms vs run
$\chi^2$ / ndf 1.162e+04 / 91
p0 6924 ± 5.203
9000
8500
8000
7500
7000
6500
6000

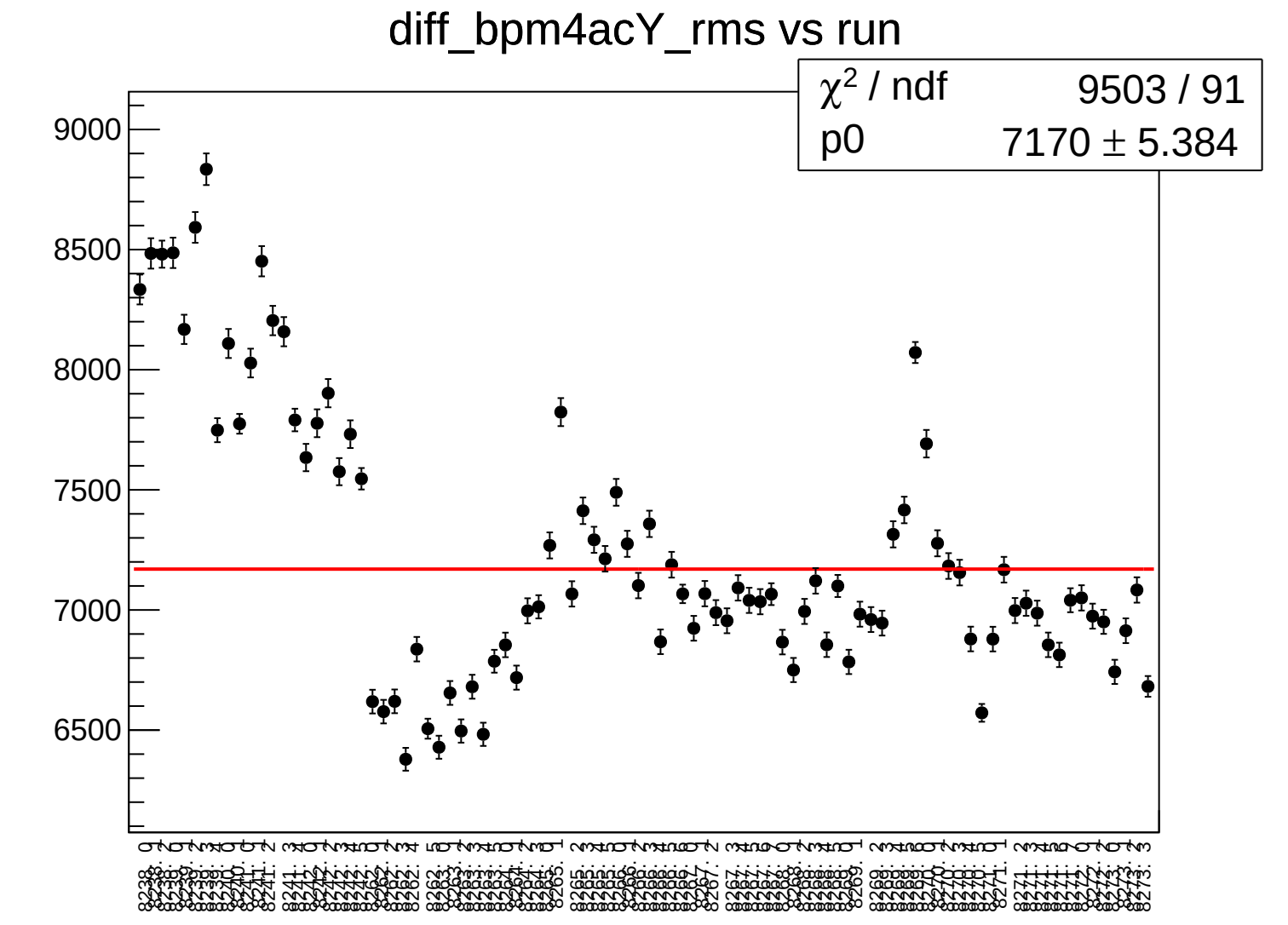

diff_bpm4acX_mean vs run
χ² / ndf 66.87 / 91
p0 −77.76 ± 23.31
pull
Entries 92
Mean −846.4
Std Dev 0

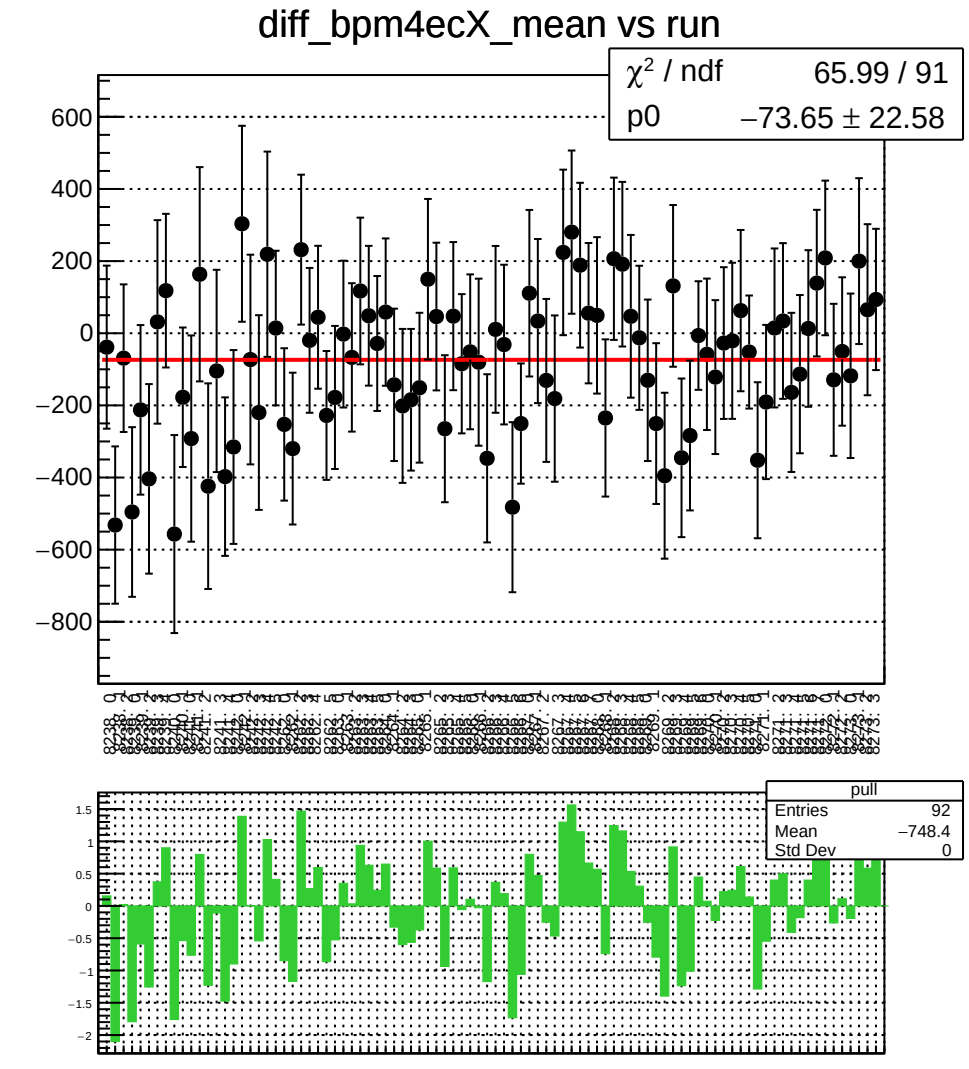

pull1D
Entries 92
Mean −0.006577
Std Dev 0.8525

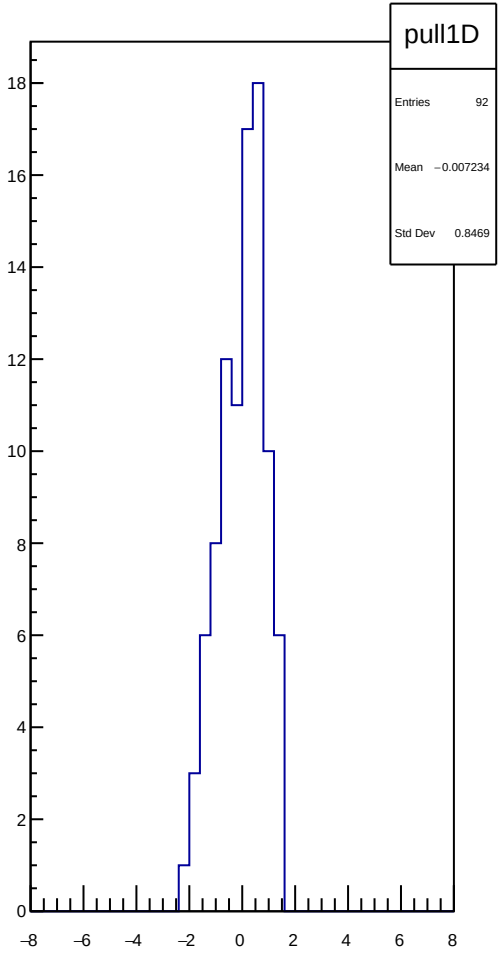

diff_bpm4acX_rms vs run
$\chi^2$ / ndf 1.693e+04 / 91
p0 2.19e+04 ± 16.48
30000
28000
26000
24000
22000
20000
18000

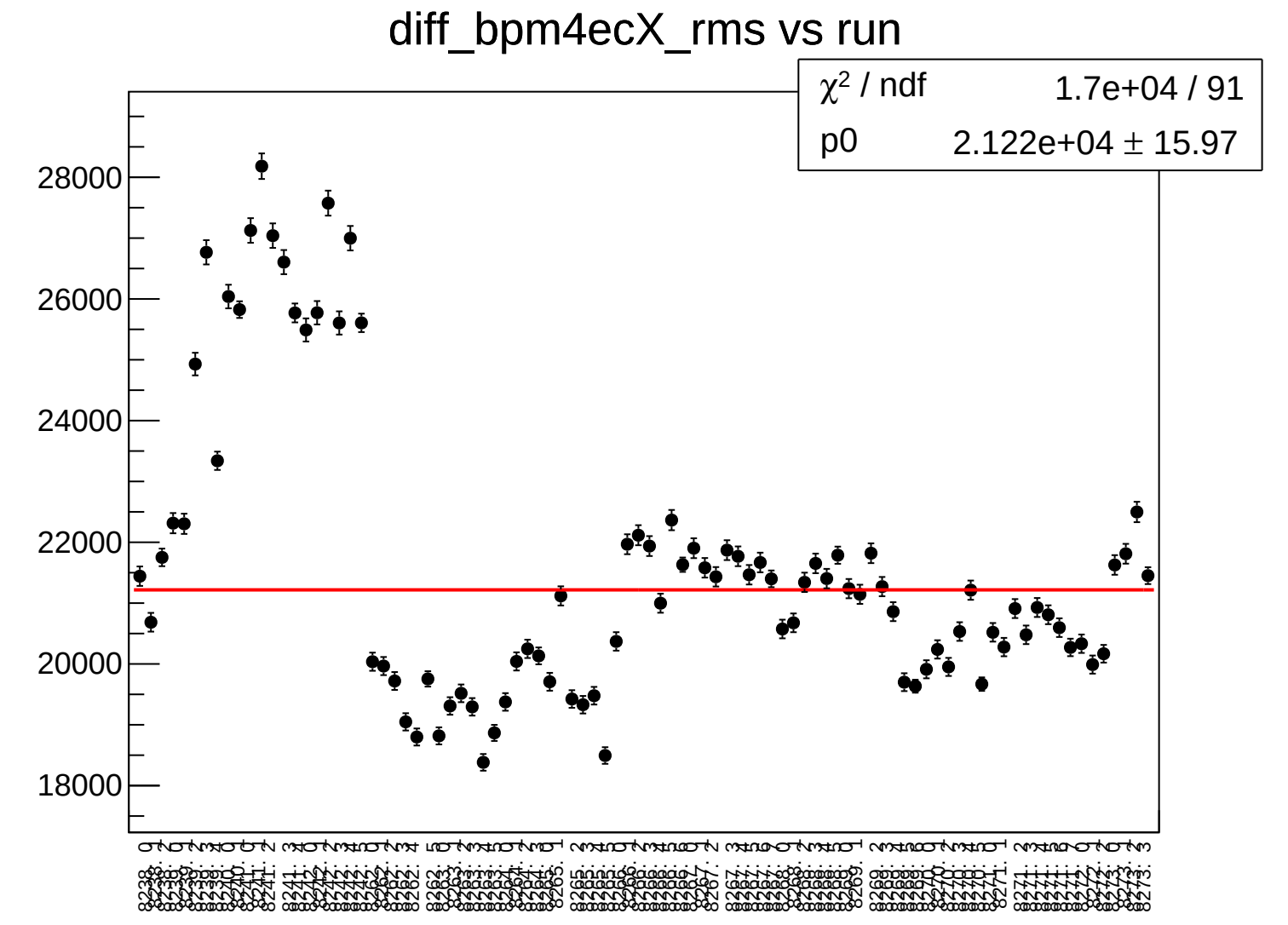

diff_bpm4acY_mean vs run
χ² / ndf 101 / 91
p0 −0.1357 ± 7.615
300
200
100
0
−100
−200
pull
Entries 92
Mean −9532
Std Dev 0
3
2
1
0
−1
−2

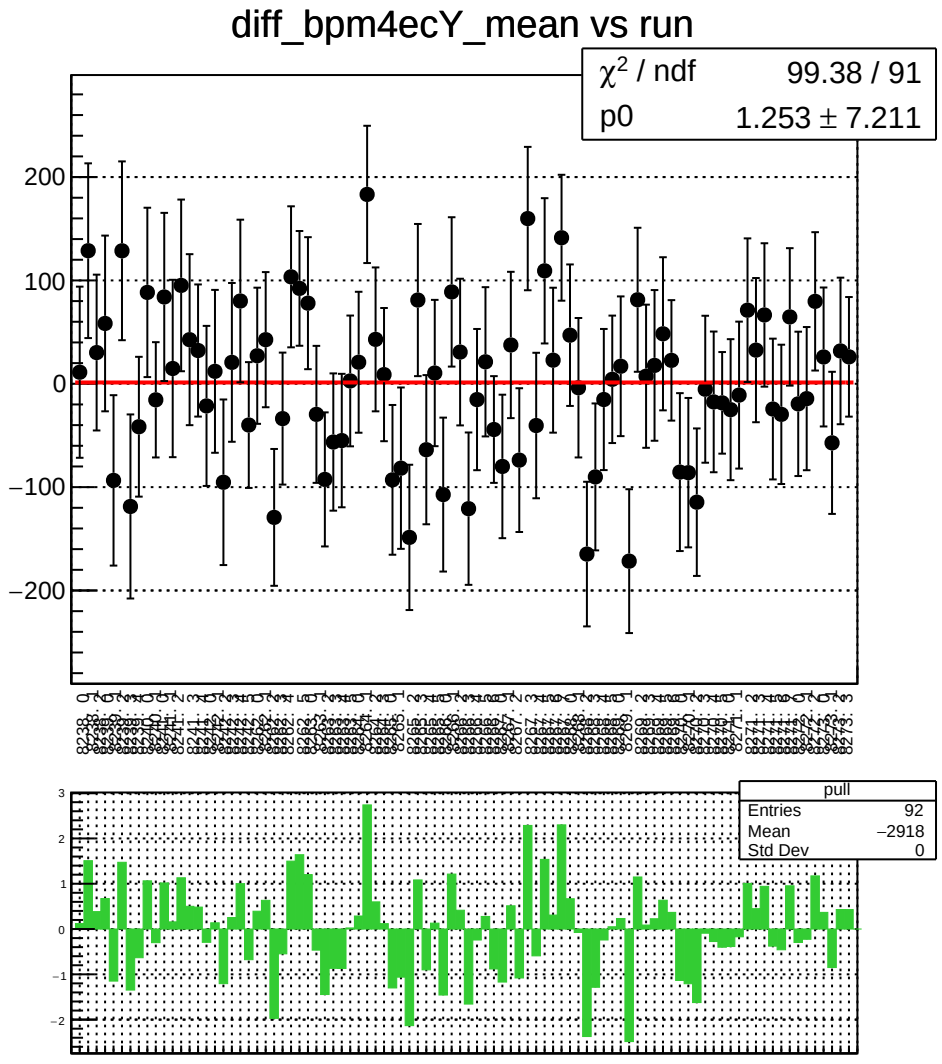

pull1D
Entries 92
Mean 0.0001795
Std Dev 1.048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

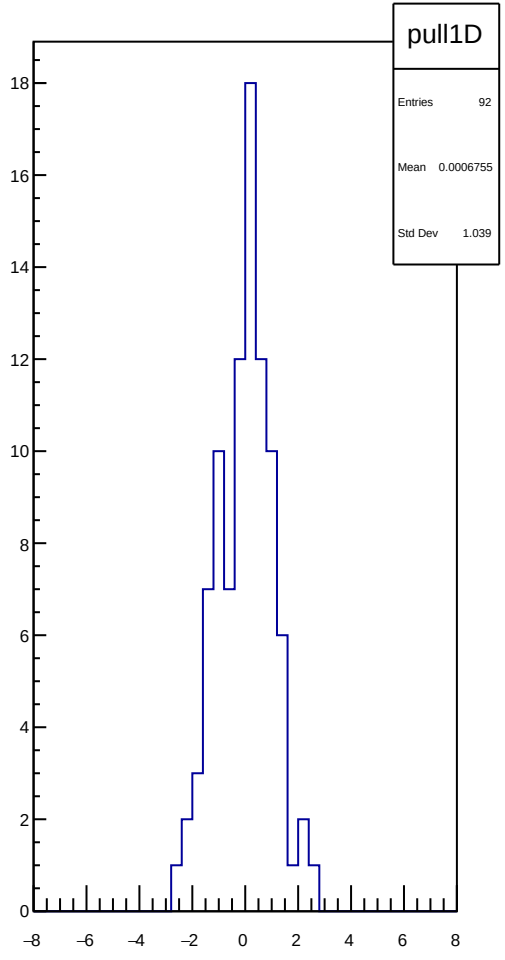

diff_bpm4acY_rms vs run
$\chi^2$ / ndf 9503 / 91
p0 7170 ± 5.384
9000
8500
8000
7500
7000
6500

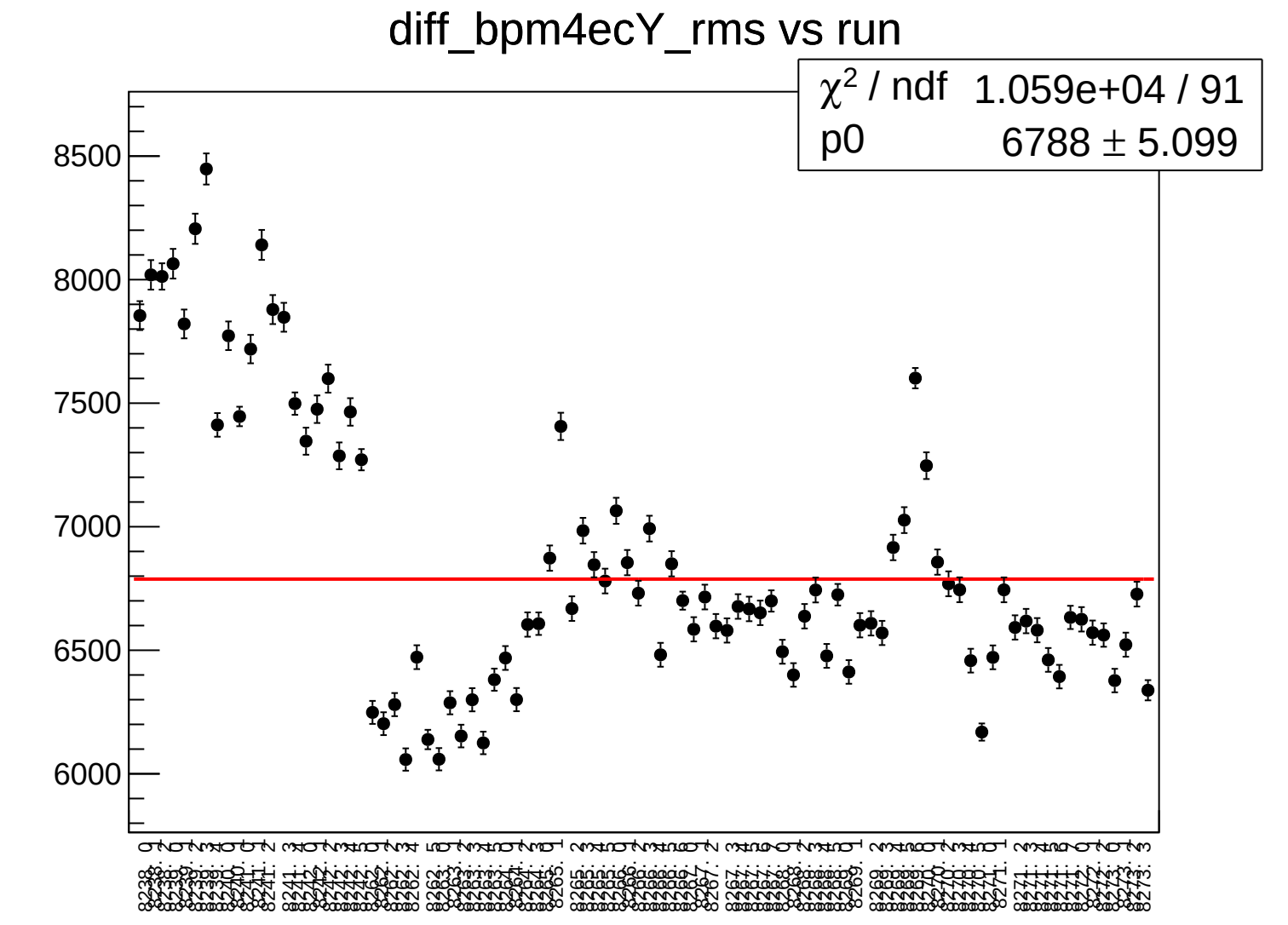

diff_bpm4ecX_mean vs run
χ² / ndf 65.99 / 91
p0 −73.65 ± 22.58
pull
Entries 92
Mean −748.4
Std Dev 0

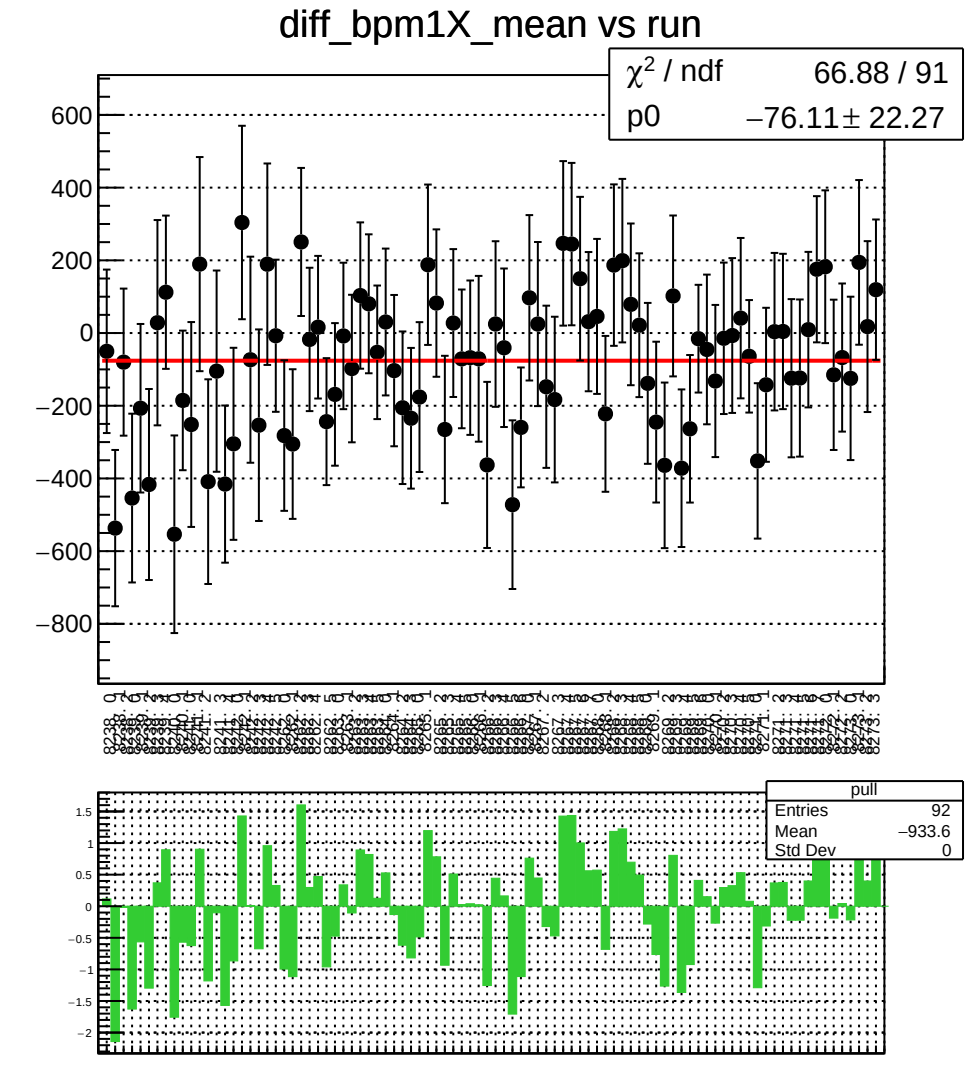

pull1D
Entries 92
Mean −0.007234
Std Dev 0.8469

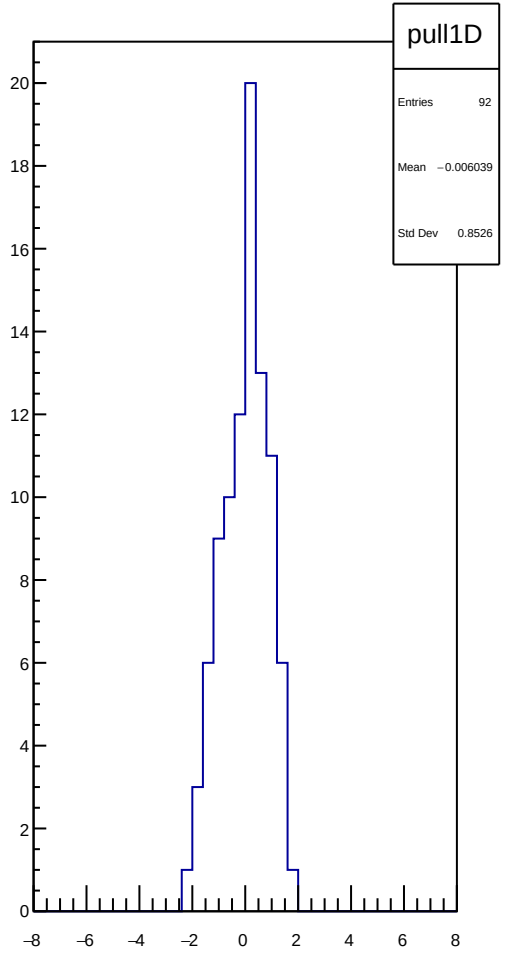

diff_bpm4ecX_rms vs run
χ² / ndf 1.7e+04 / 91
p0 2.122e+04 ± 15.97
28000
26000
24000
22000
20000
18000

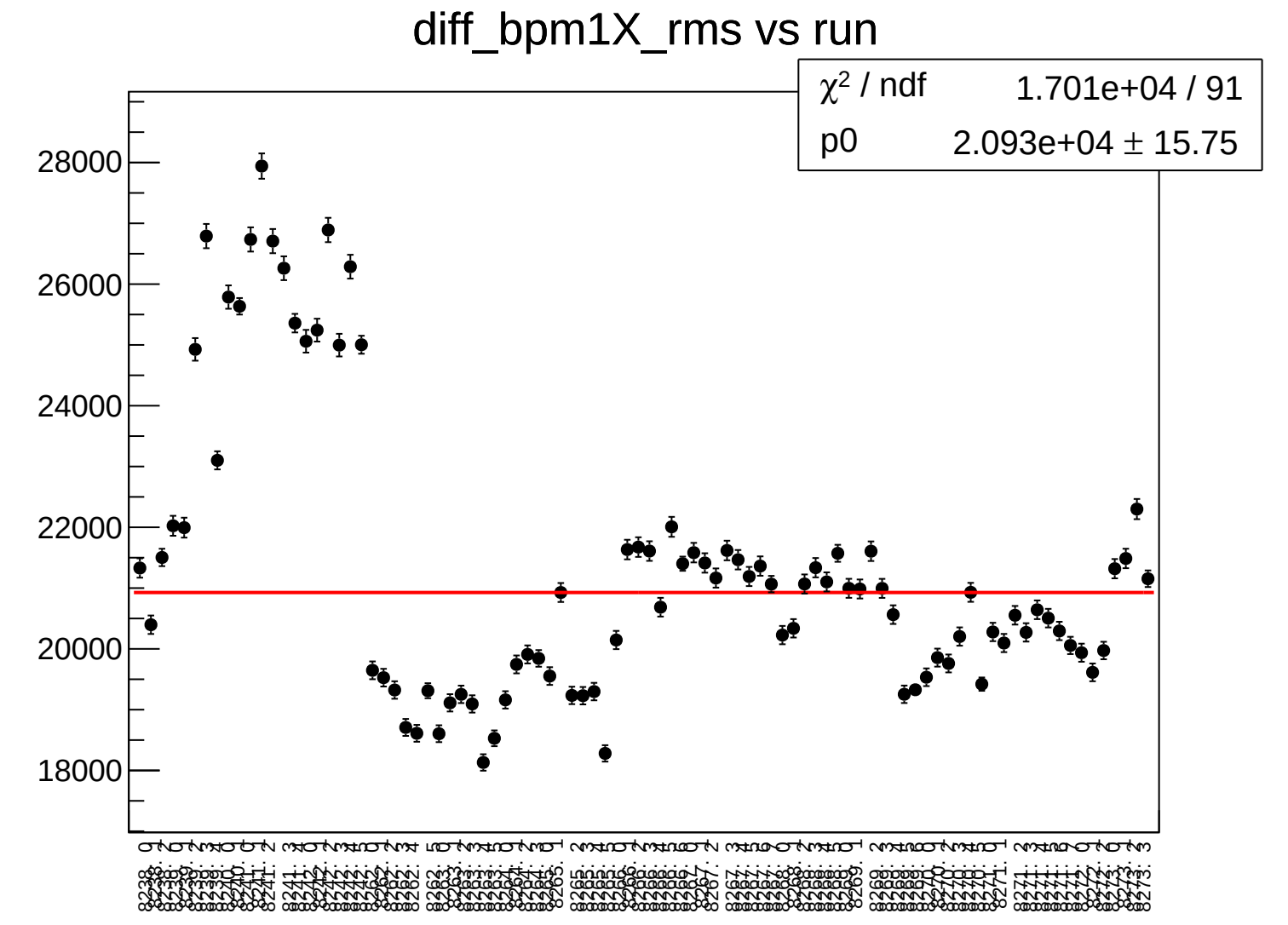

diff_bpm4ecY_mean vs run
$\chi^2$ / ndf 99.38 / 91
p0 1.253 ± 7.211
200
100
0
−100
−200
pull
Entries 92
Mean −2918
Std Dev 0
3
2
1
0
−1
−2

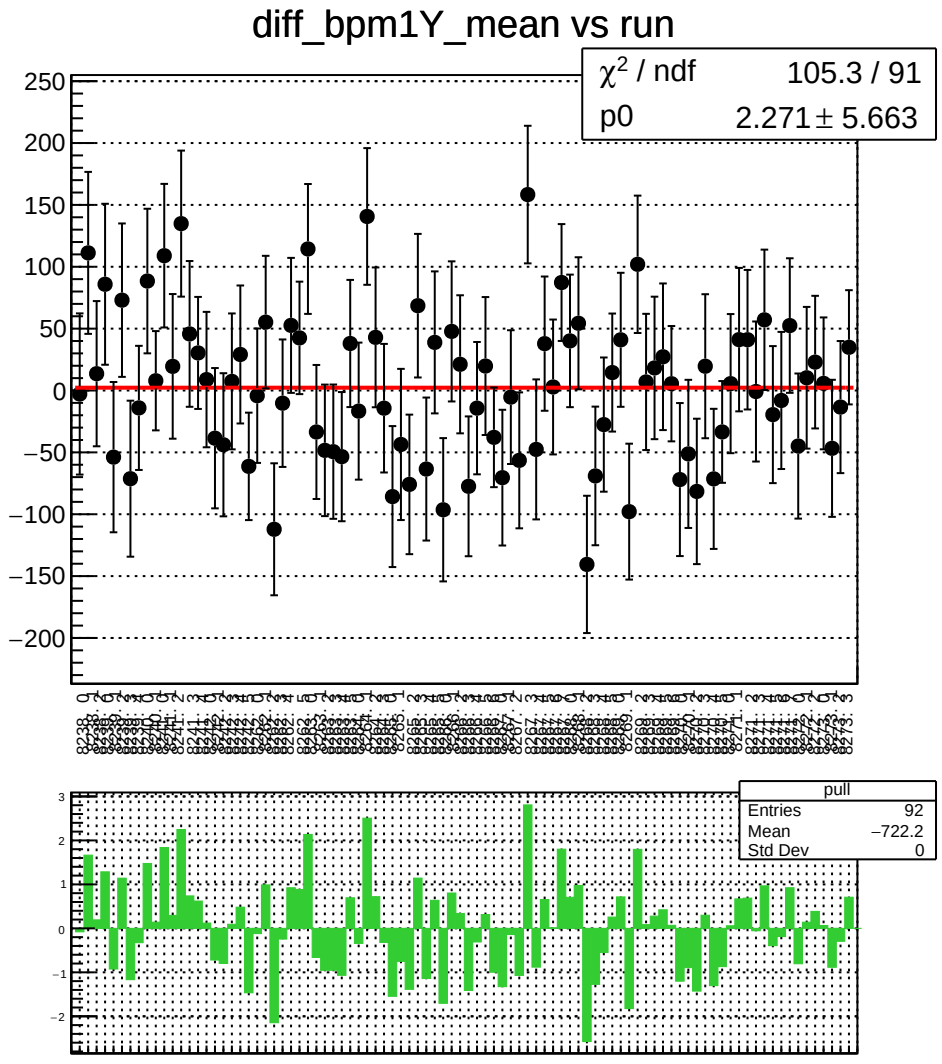

pull1D
Entries 92
Mean 0.0006755
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

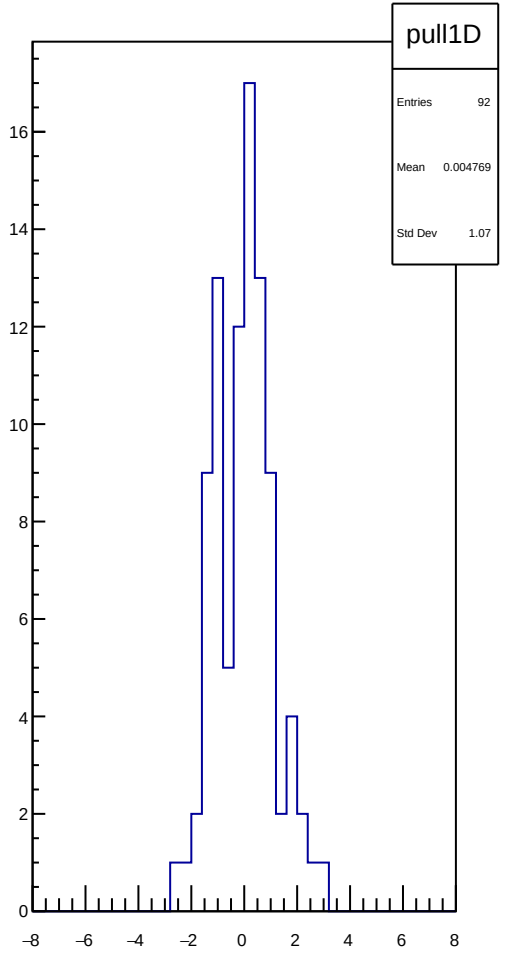

diff_bpm4ecY_rms vs run
$\chi^2$ / ndf 1.059e+04 / 91
p0 6788 ± 5.099
8500
8000
7500
7000
6500
6000

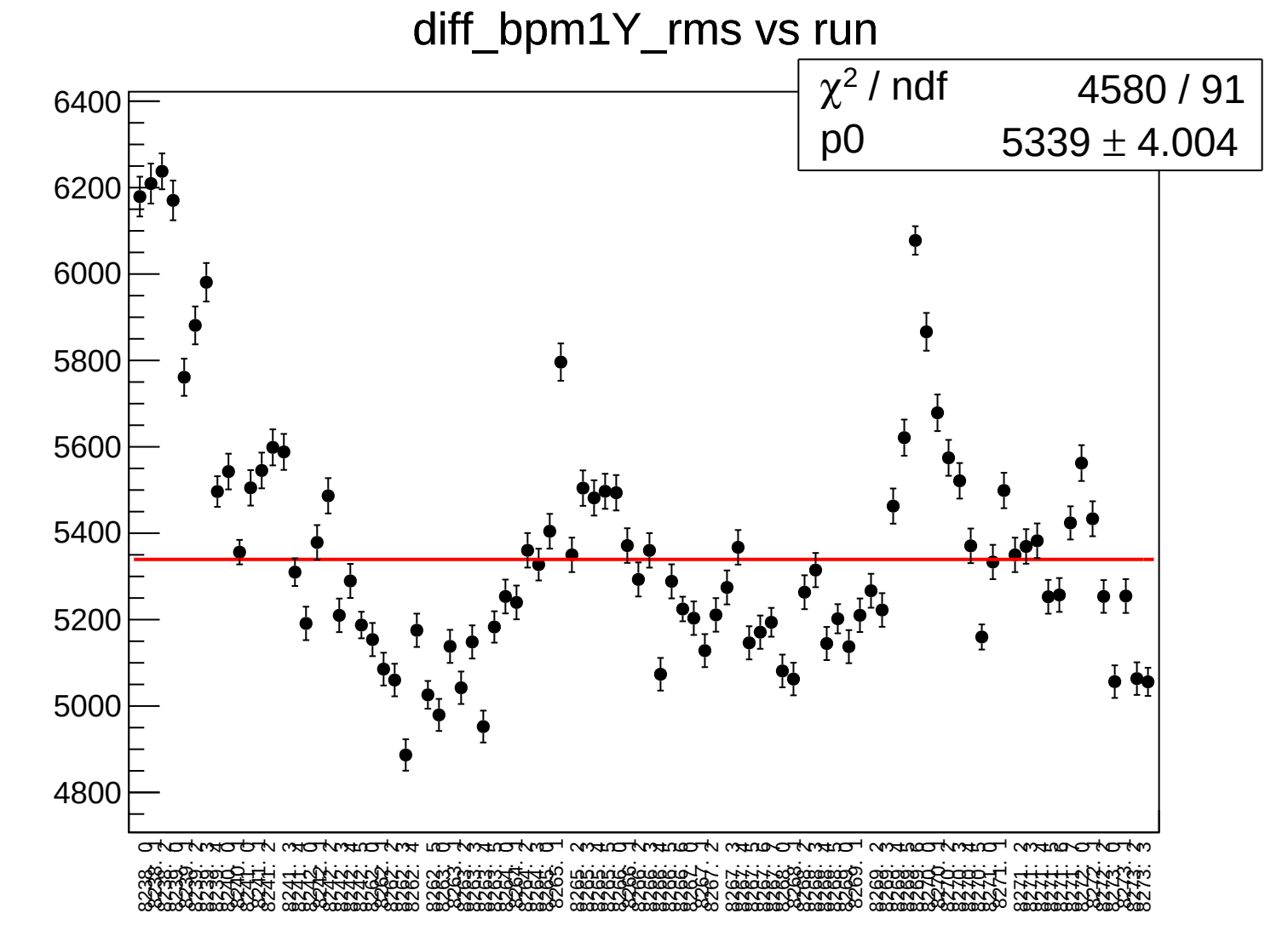

diff_bpm1X_mean vs run
χ² / ndf 66.88 / 91
p0 −76.11± 22.27
pull
Entries 92
Mean −933.6
Std Dev 0

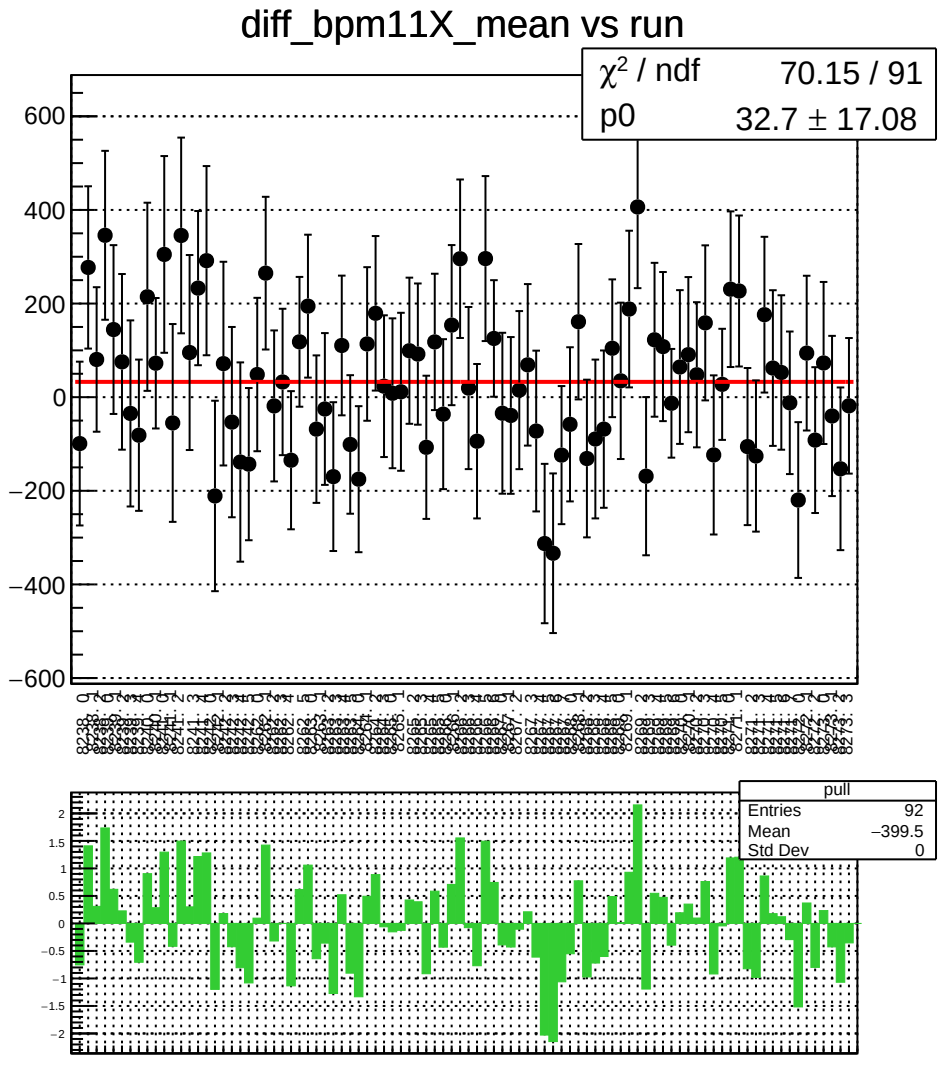

pull1D
Entries 92
Mean −0.006039
Std Dev 0.8526

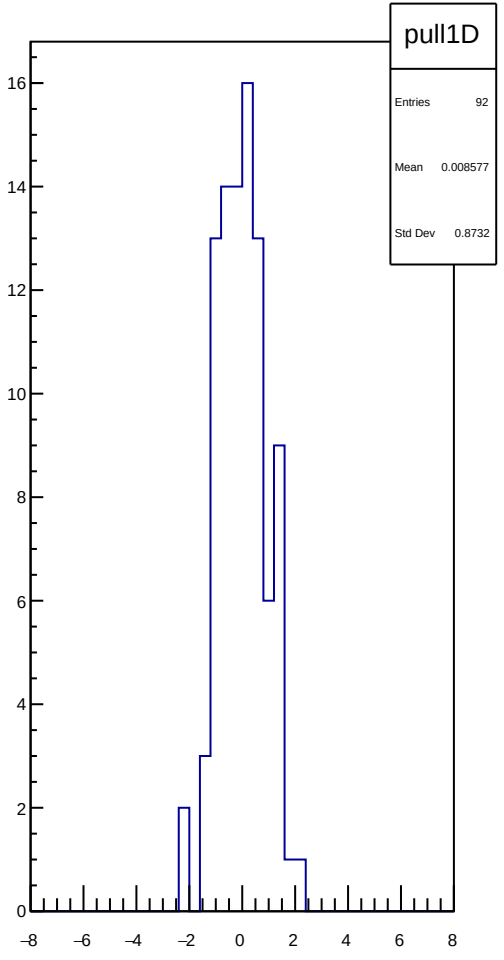

diff_bpm1X_rms vs run
χ² / ndf 1.701e+04 / 91
p0 2.093e+04 ± 15.75
28000
26000
24000
22000
20000
18000


diff_bpm1Y_mean vs run
χ² / ndf 105.3 / 91
p0 2.271 ± 5.663
pull
Entries 92
Mean −722.2
Std Dev 0

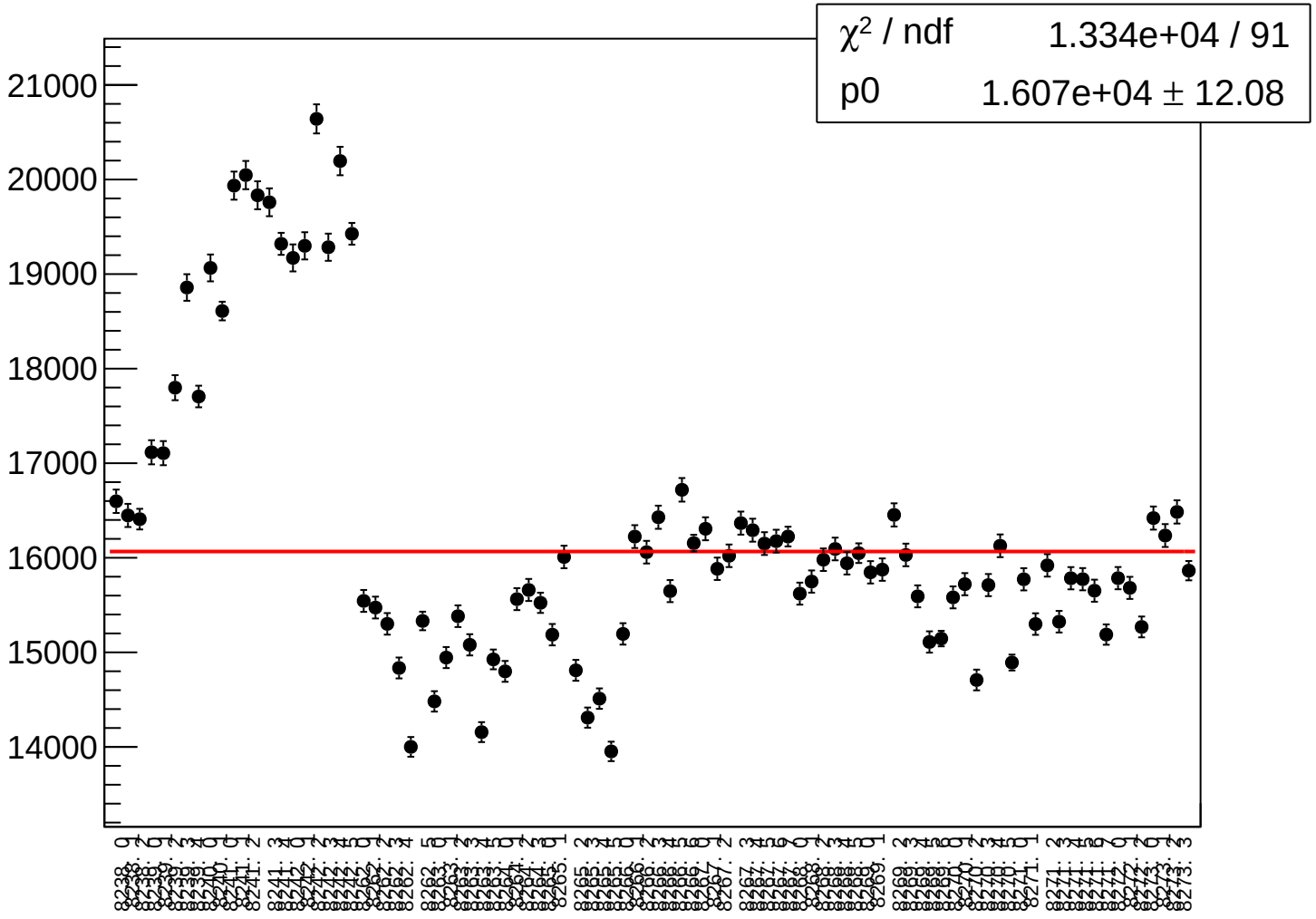

pull1D
Entries 92
Mean 0.004769
Std Dev 1.07

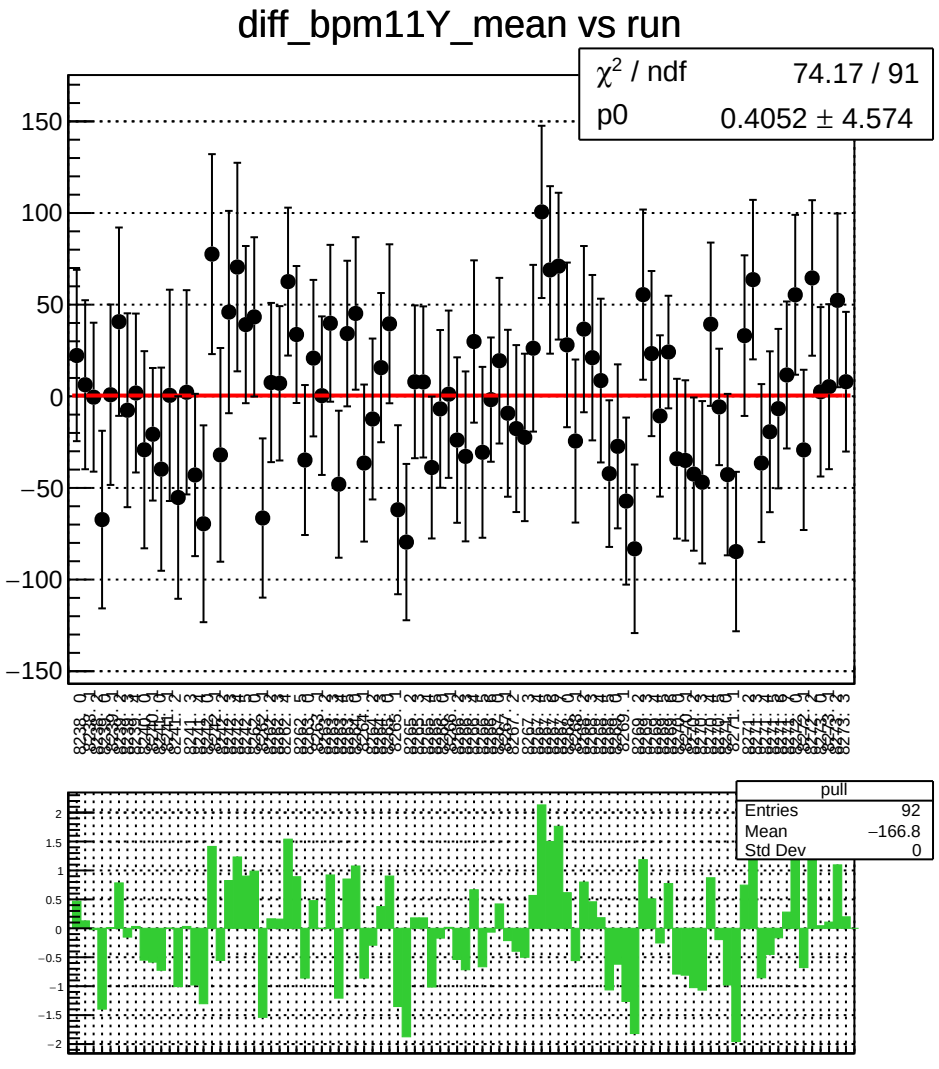

diff_bpm1Y_rms vs run
χ² / ndf 4580 / 91
p0 5339 ± 4.004
6400
6200
6000
5800
5600
5400
5200
5000
4800

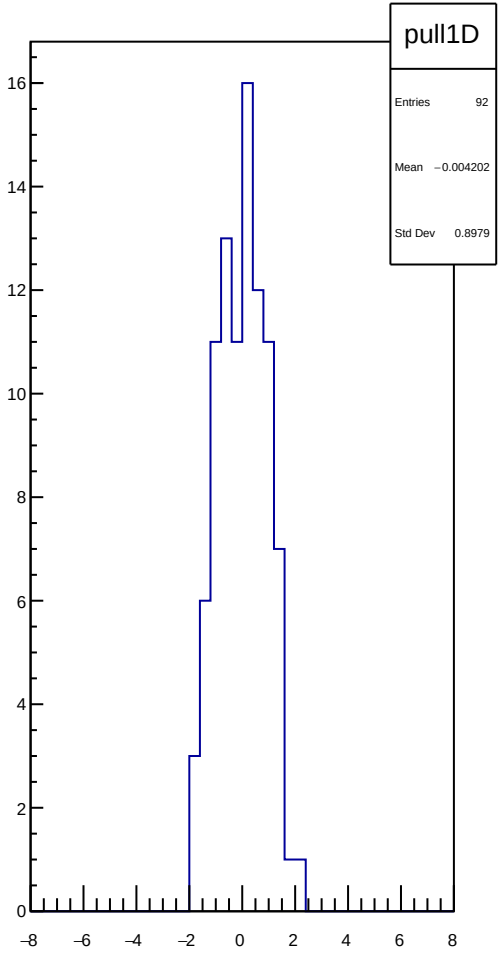

diff_bpm11X_mean vs run
χ² / ndf 70.15 / 91
p0 32.7 ± 17.08
pull
Entries 92
Mean −399.5
Std Dev 0

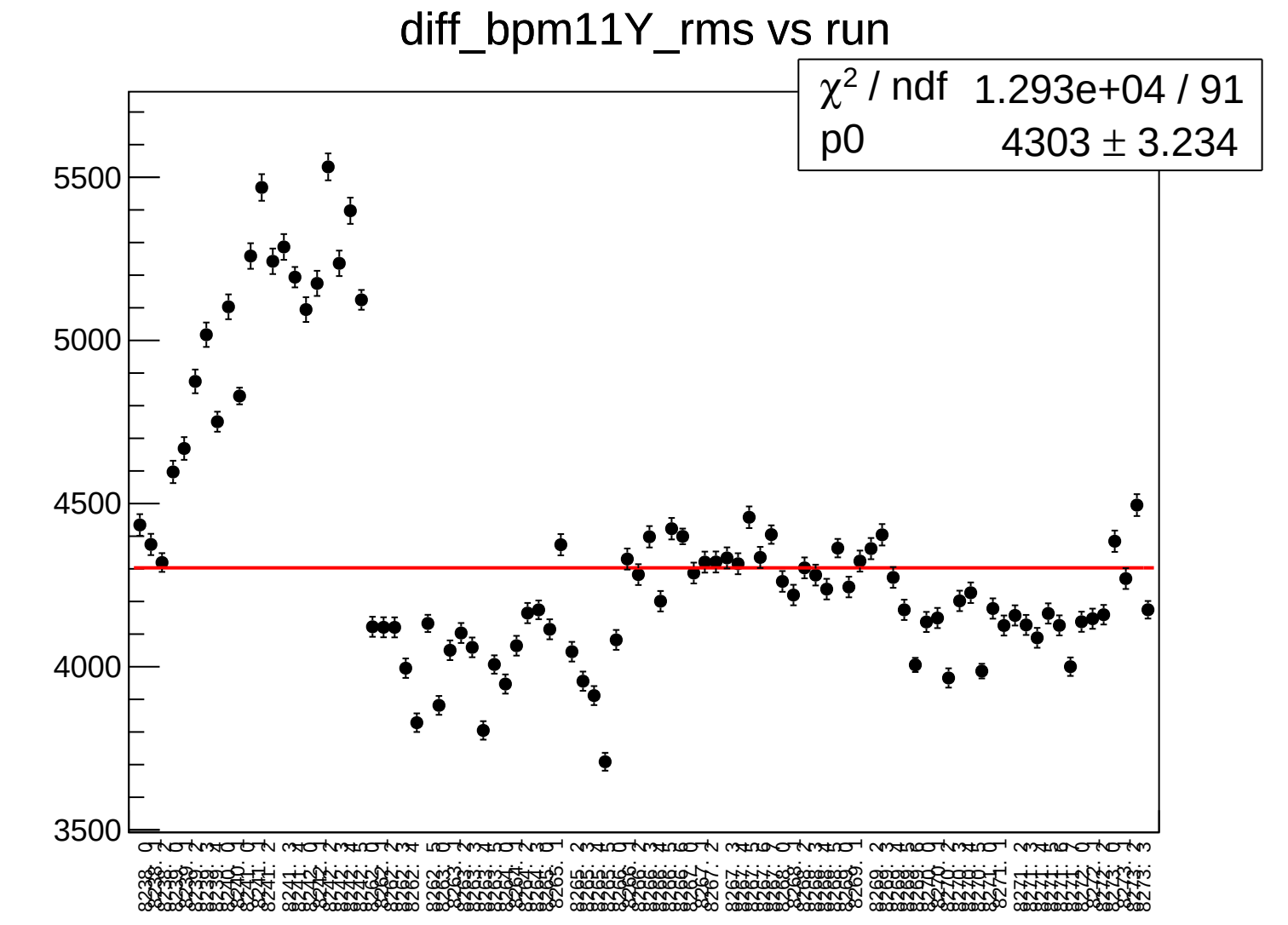

pull1D
Entries 92
Mean 0.008577
Std Dev 0.8732

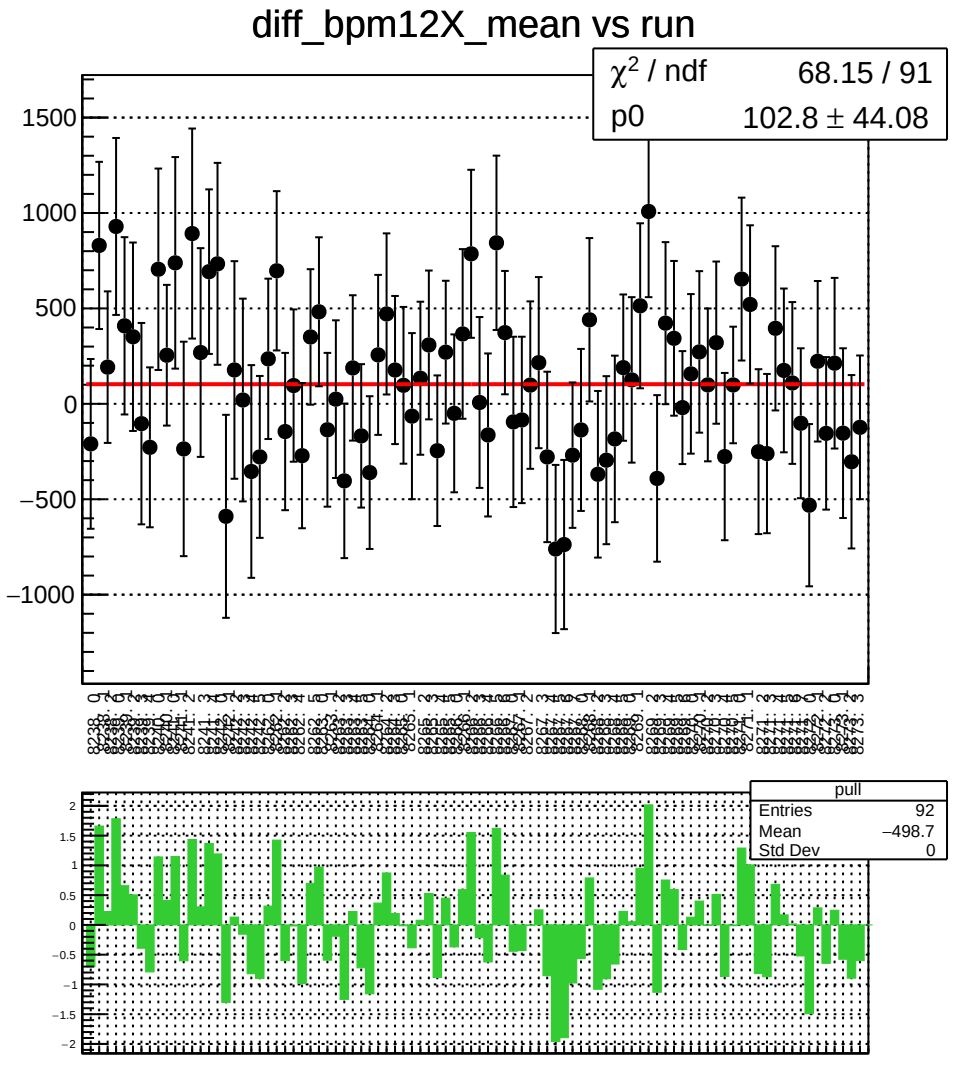
# diff_bpm11X_rms vs run

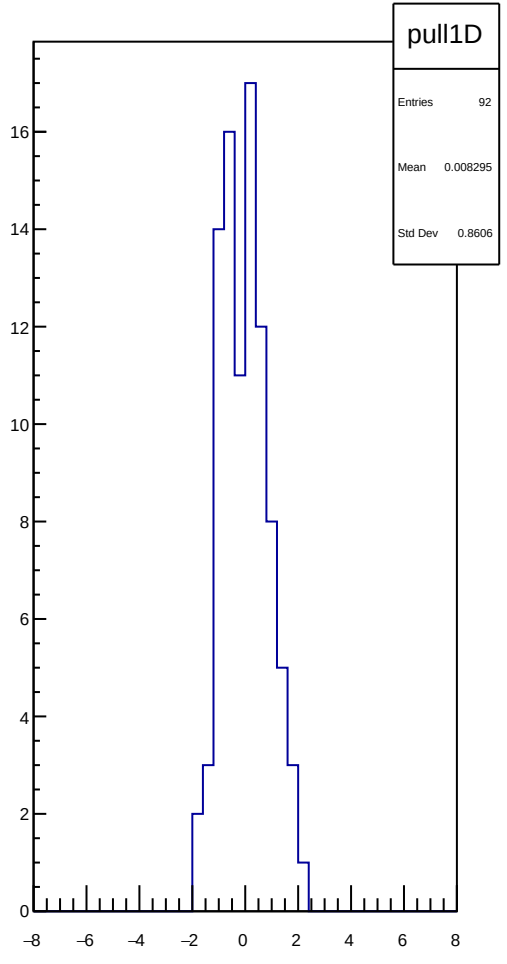


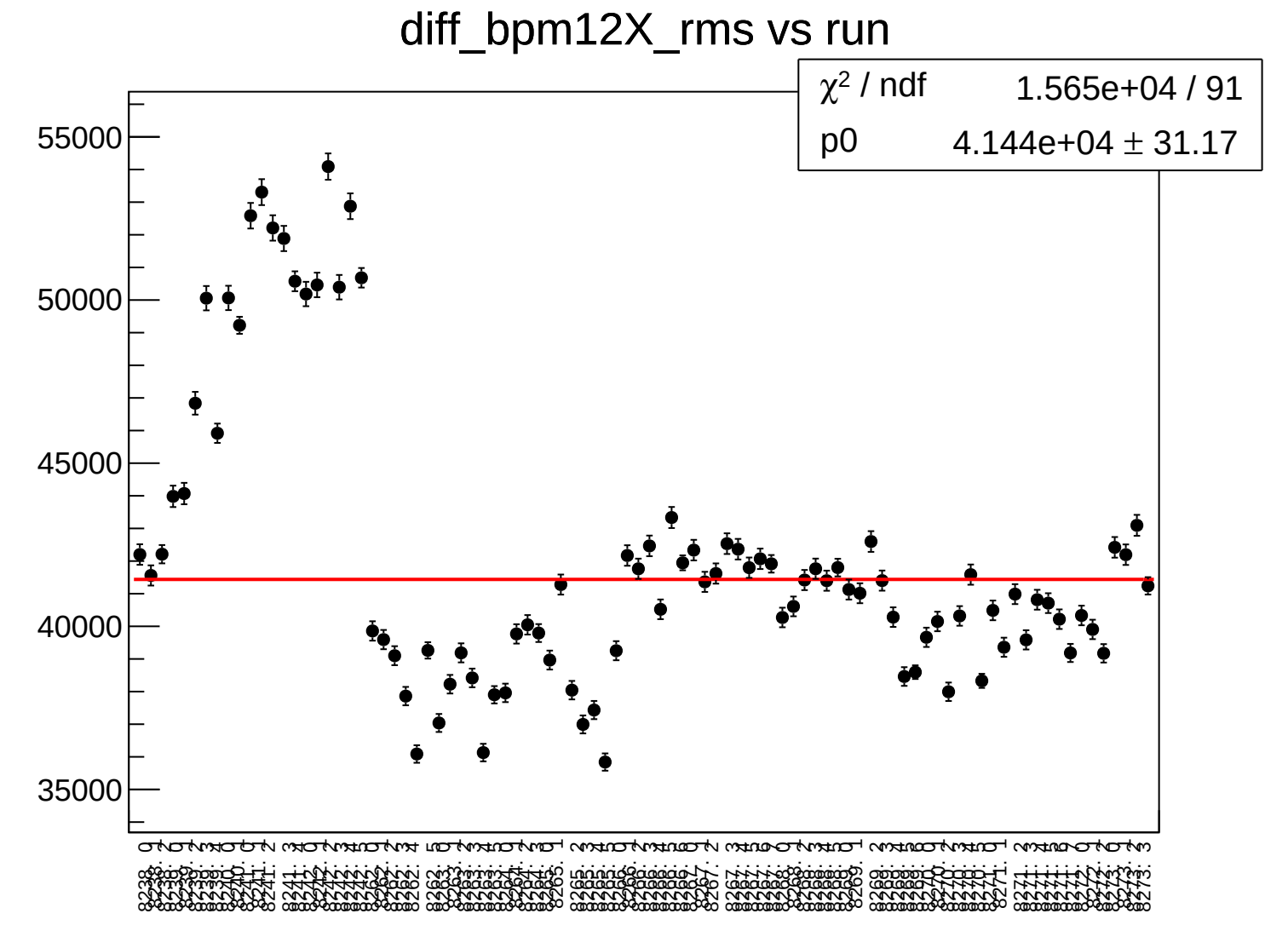

diff_bpm11Y_mean vs run
χ² / ndf 74.17 / 91
p0 0.4052 ± 4.574
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −166.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

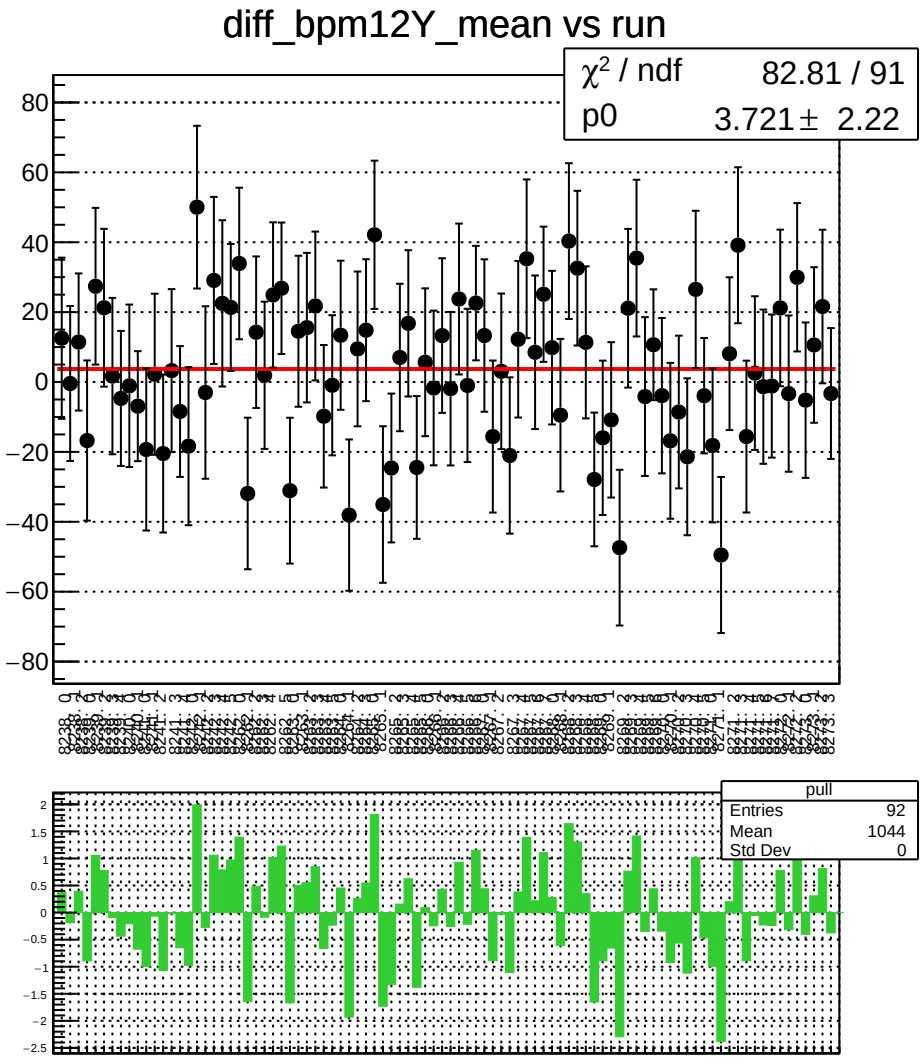

pull1D
Entries 92
Mean −0.004202
Std Dev 0.8979
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

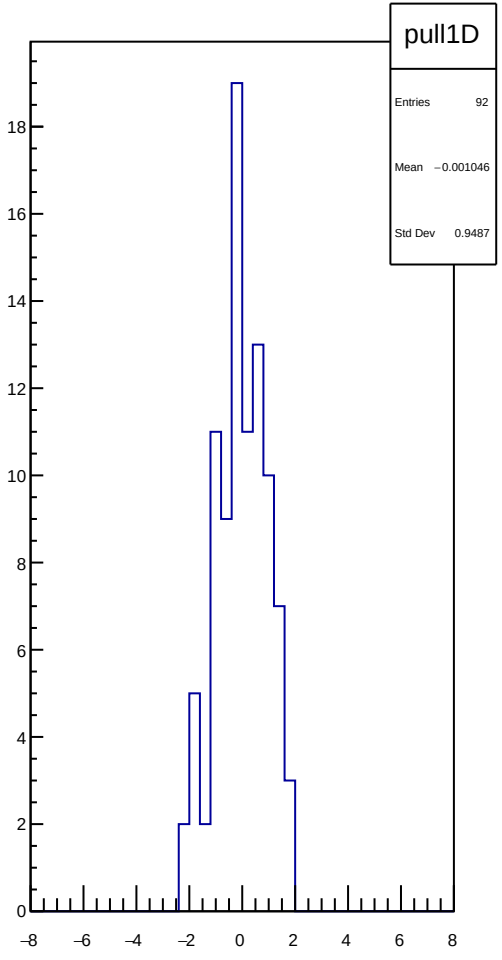

diff_bpm11Y_rms vs run
χ² / ndf 1.293e+04 / 91
p0 4303 ± 3.234
5500
5000
4500
4000
3500

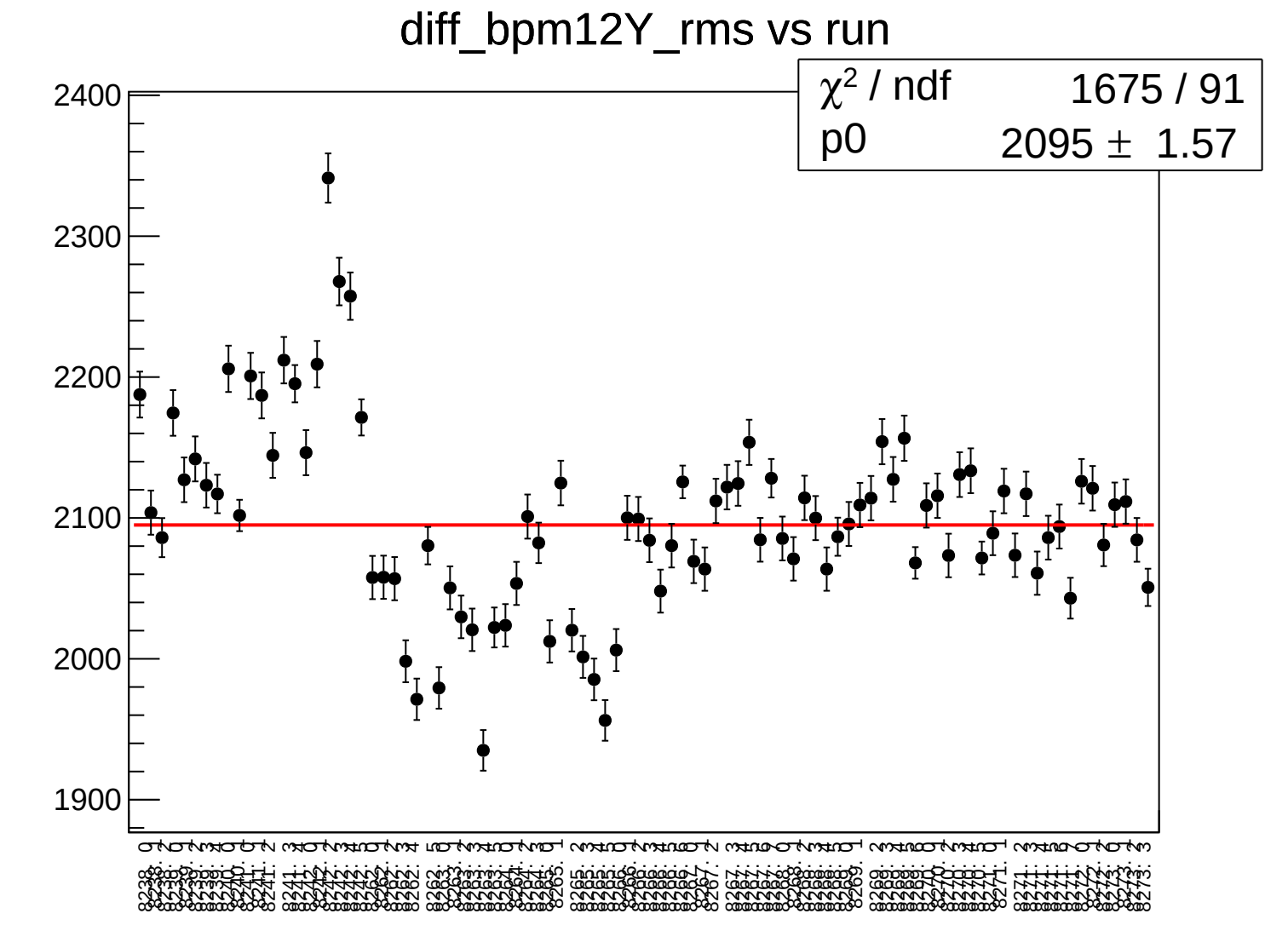

diff_bpm12X_mean vs run
$\chi^2$ / ndf 68.15 / 91
p0 102.8 ± 44.08
1500
1000
500
0
−500
−1000
pull
Entries 92
Mean −498.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

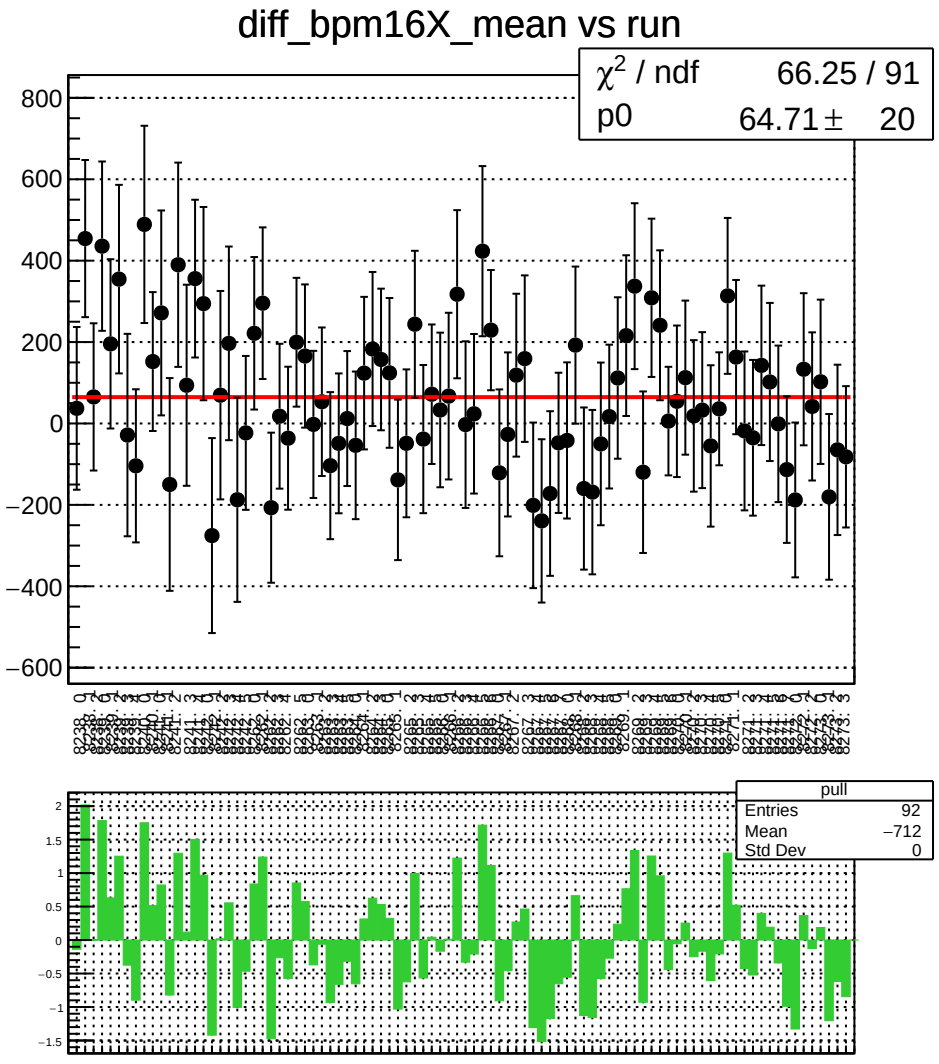

pull1D
Entries 92
Mean 0.008295
Std Dev 0.8606
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

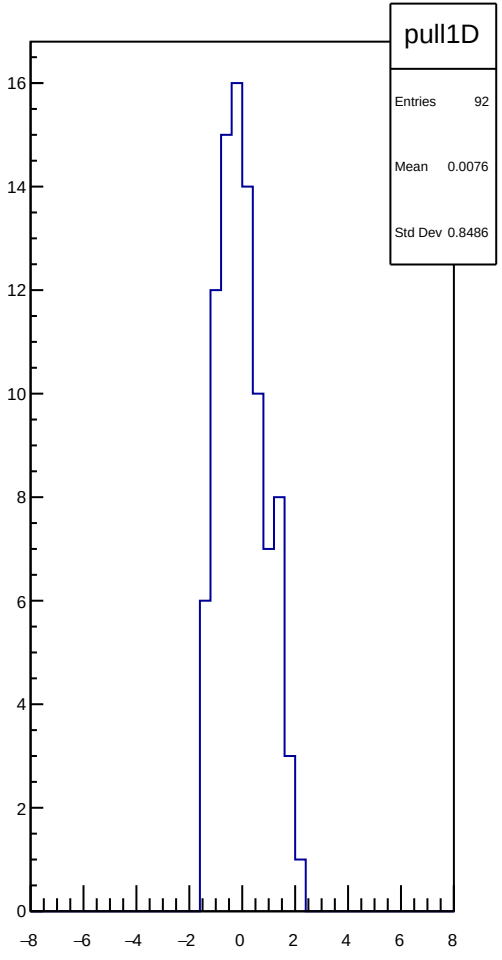

diff_bpm12X_rms vs run
χ² / ndf 1.565e+04 / 91
p0 4.144e+04 ± 31.17
55000
50000
45000
40000
35000


diff_bpm12Y_mean vs run
χ² / ndf 82.81 / 91
p0 3.721 ± 2.22
pull
Entries 92
Mean 1044
Std Dev 0

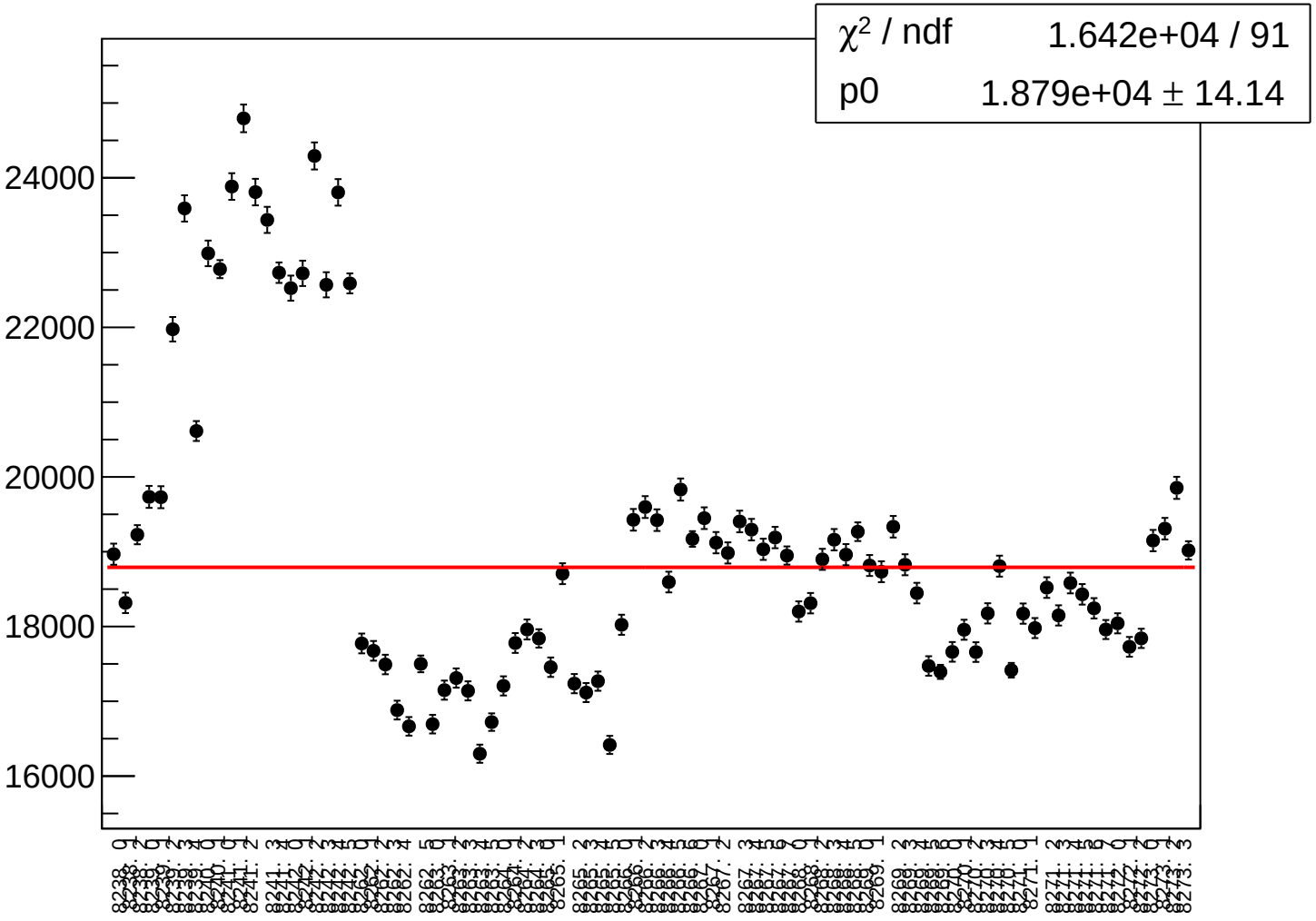

pull1D
Entries 92
Mean −0.001046
Std Dev 0.9487

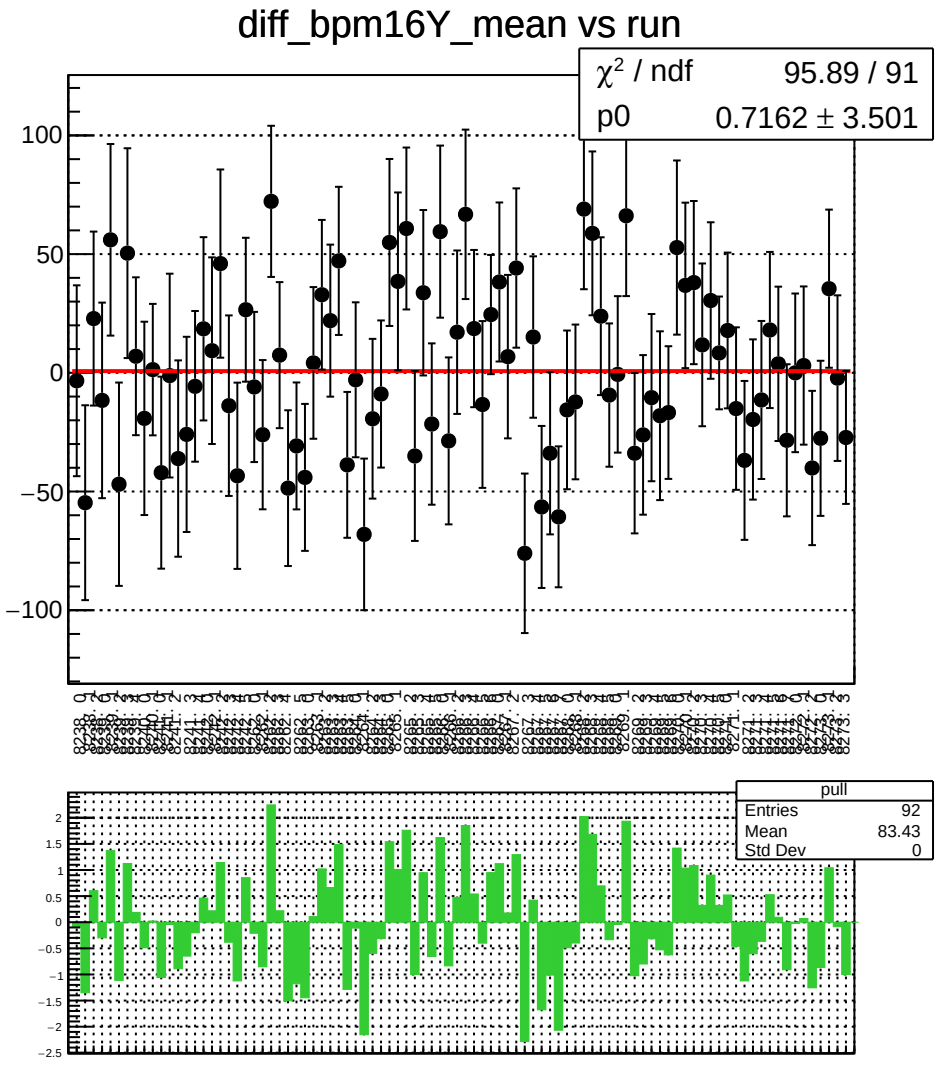

diff_bpm12Y_rms vs run
χ² / ndf 1675 / 91
p0 2095 ± 1.57
2400
2300
2200
2100
2000
1900

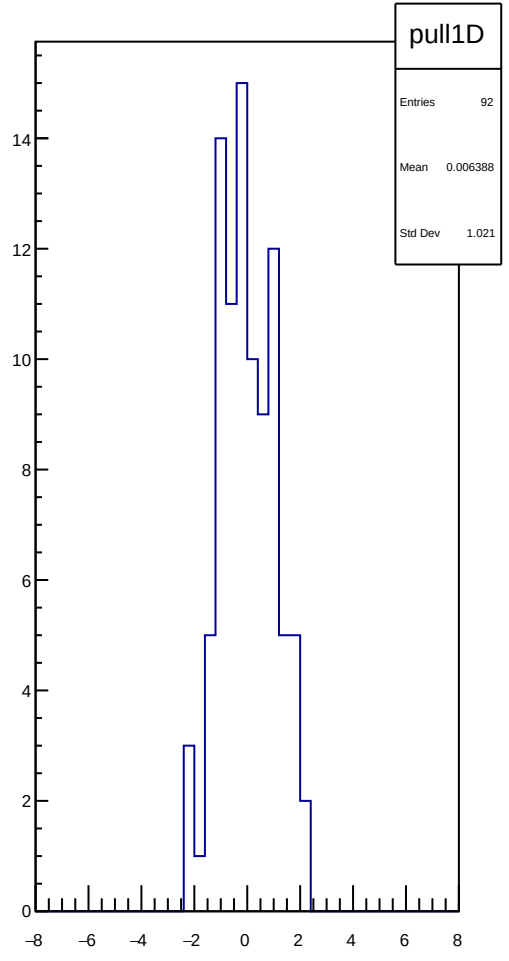

diff_bpm16X_mean vs run
χ² / ndf 66.25 / 91
p0 64.71 ± 20
pull
Entries 92
Mean −712
Std Dev 0

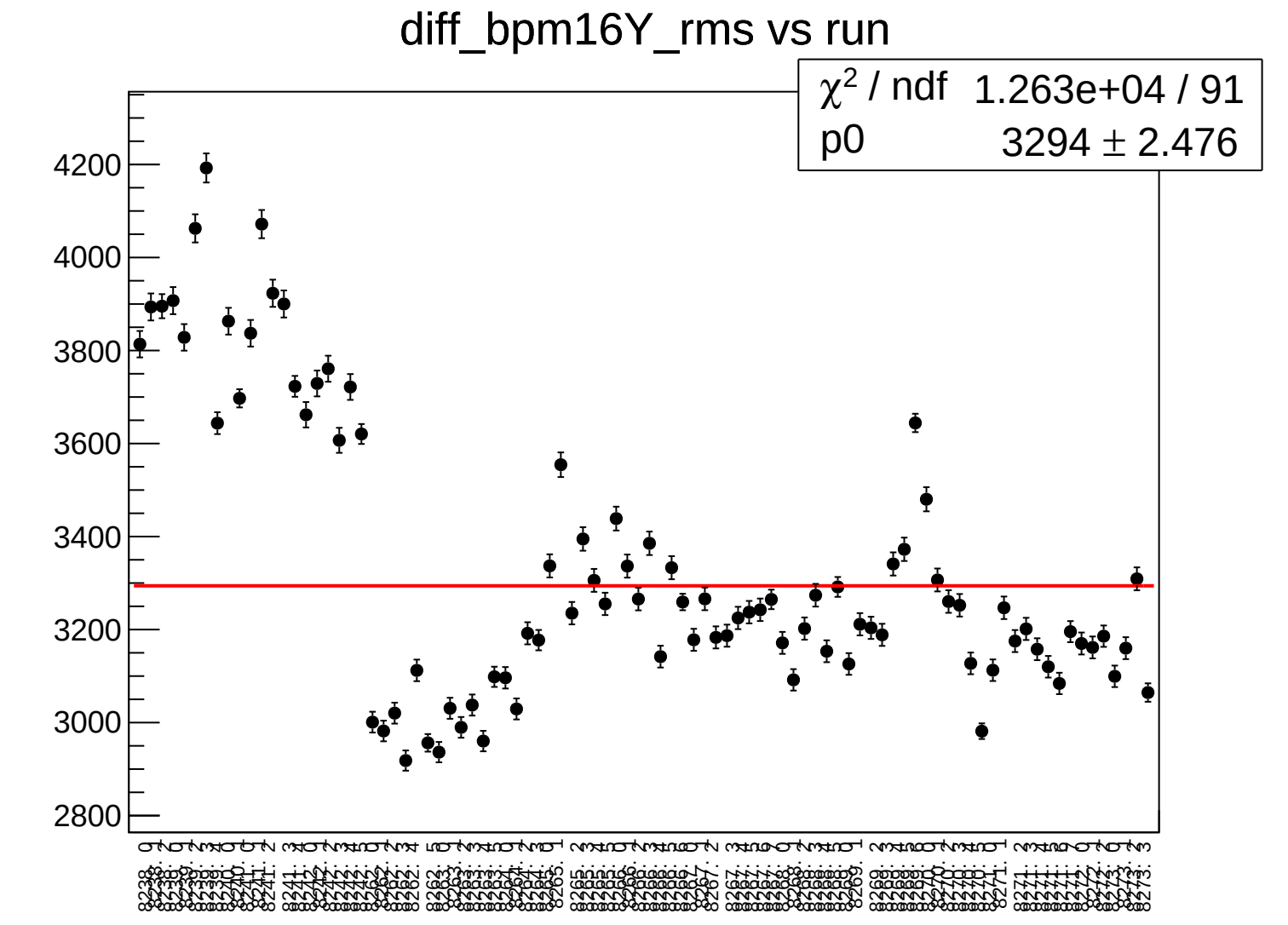

pull1D
Entries 92
Mean 0.0076
Std Dev 0.8486

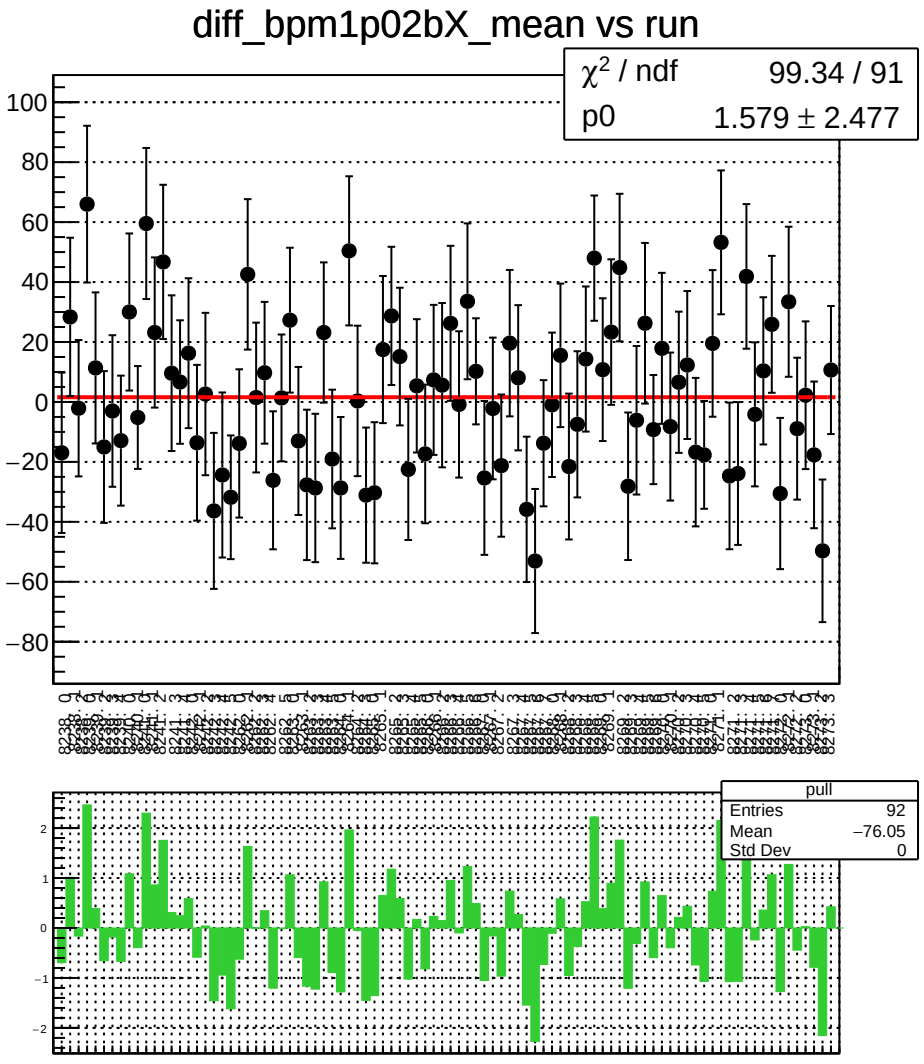
# diff_bpm16X_rms vs run

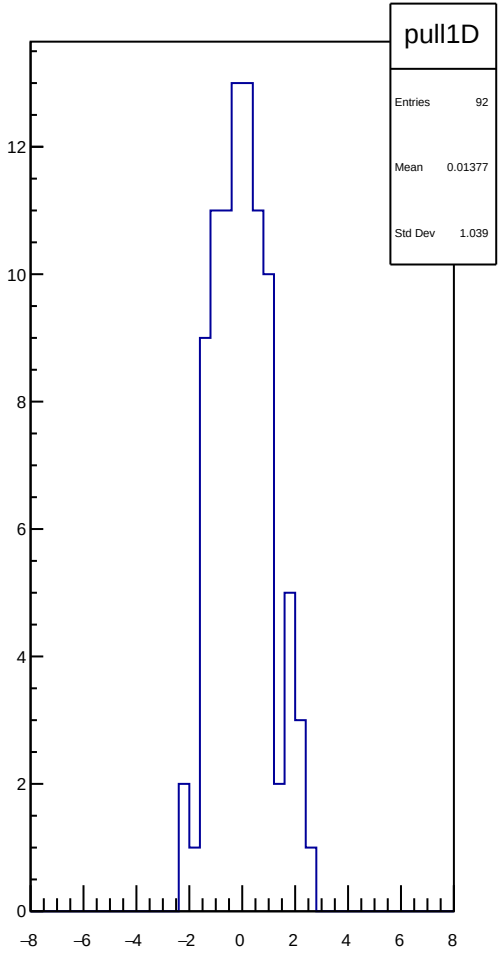


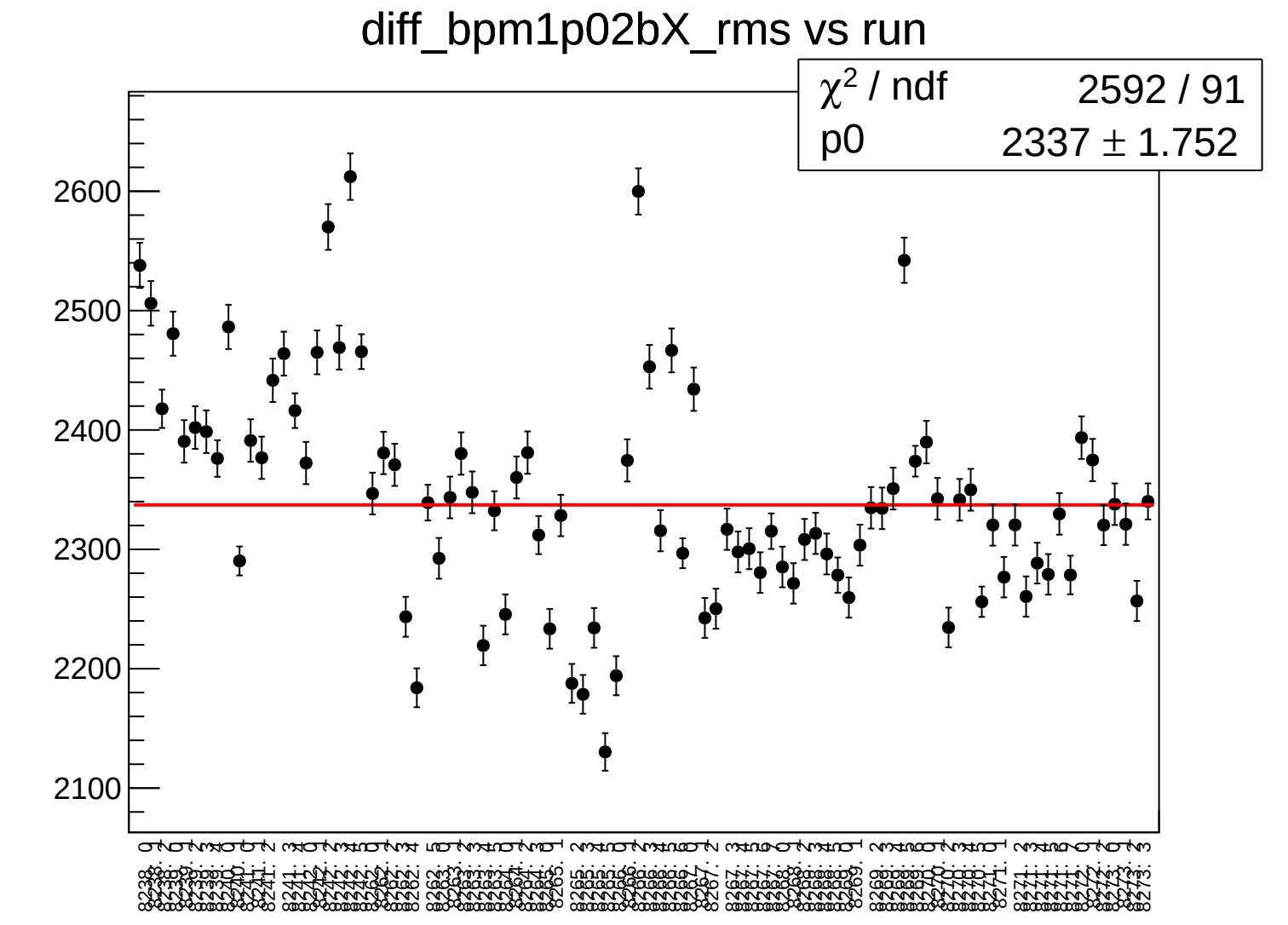

diff_bpm16Y_mean vs run
χ² / ndf 95.89 / 91
p0 0.7162 ± 3.501
100
50
0
−50
−100
pull
Entries 92
Mean 83.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

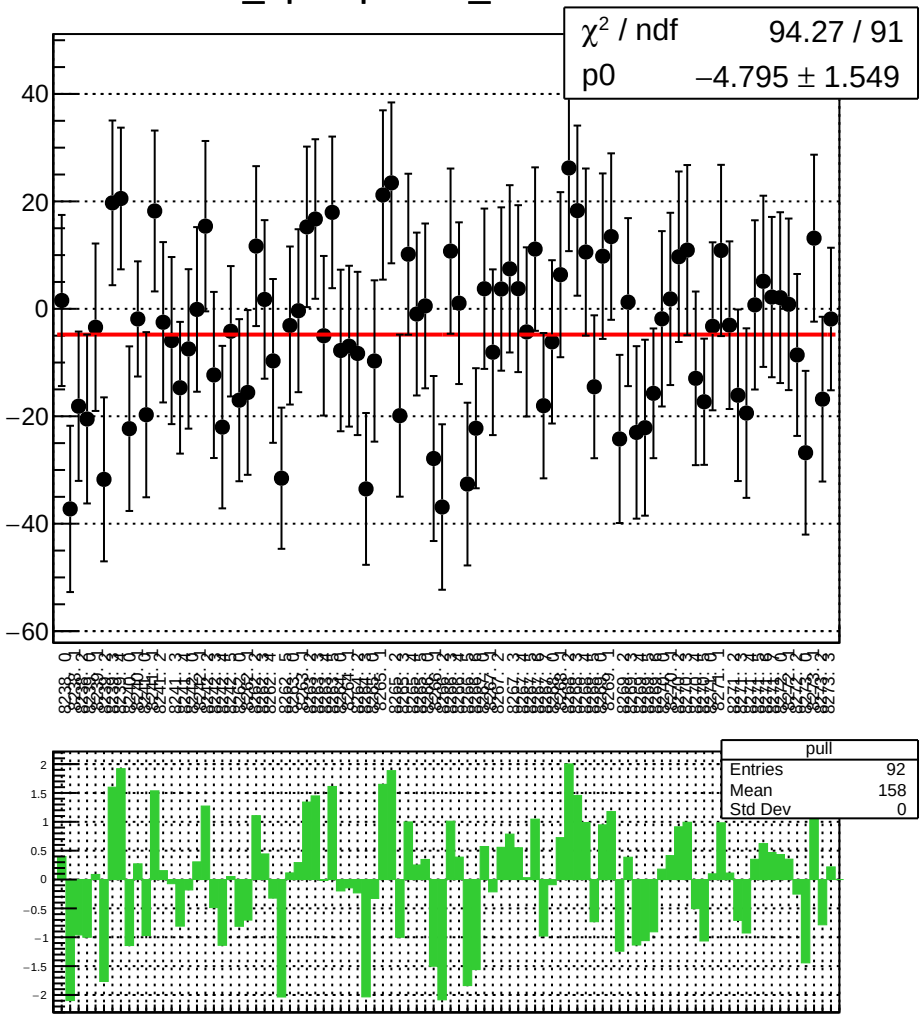

pull1D
Entries 92
Mean 0.006388
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

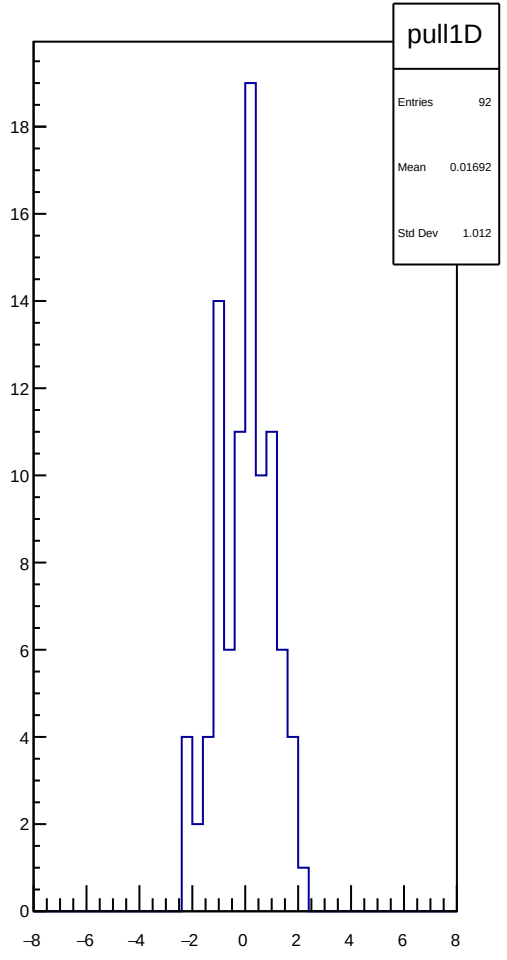

diff_bpm16Y_rms vs run
$\chi^2$ / ndf 1.263e+04 / 91
p0 3294 ± 2.476
4200
4000
3800
3600
3400
3200
3000
2800

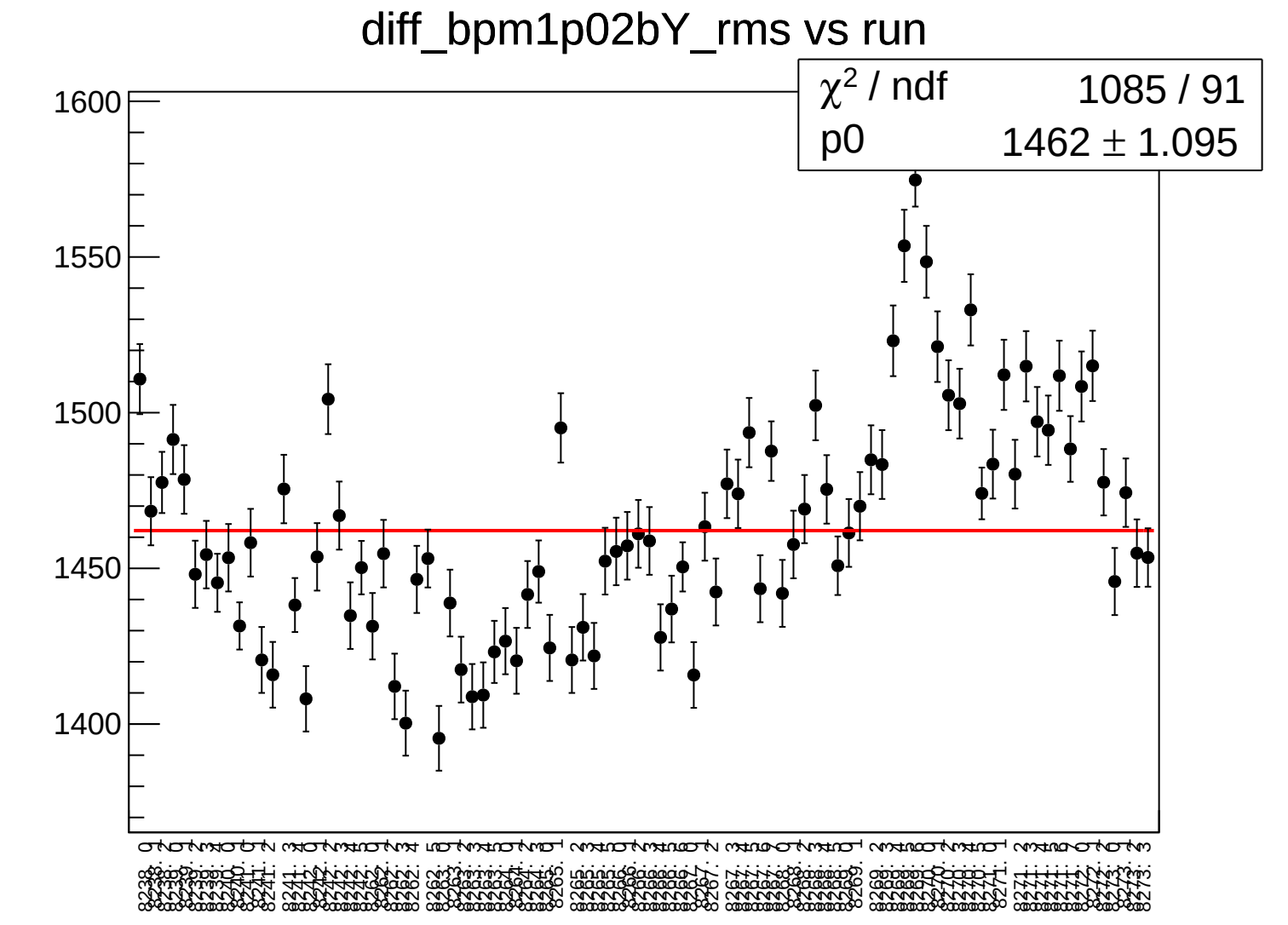

diff_bpm1p02bX_mean vs run
χ² / ndf 99.34 / 91
p0 1.579 ± 2.477
pull
Entries 92
Mean −76.05
Std Dev 0

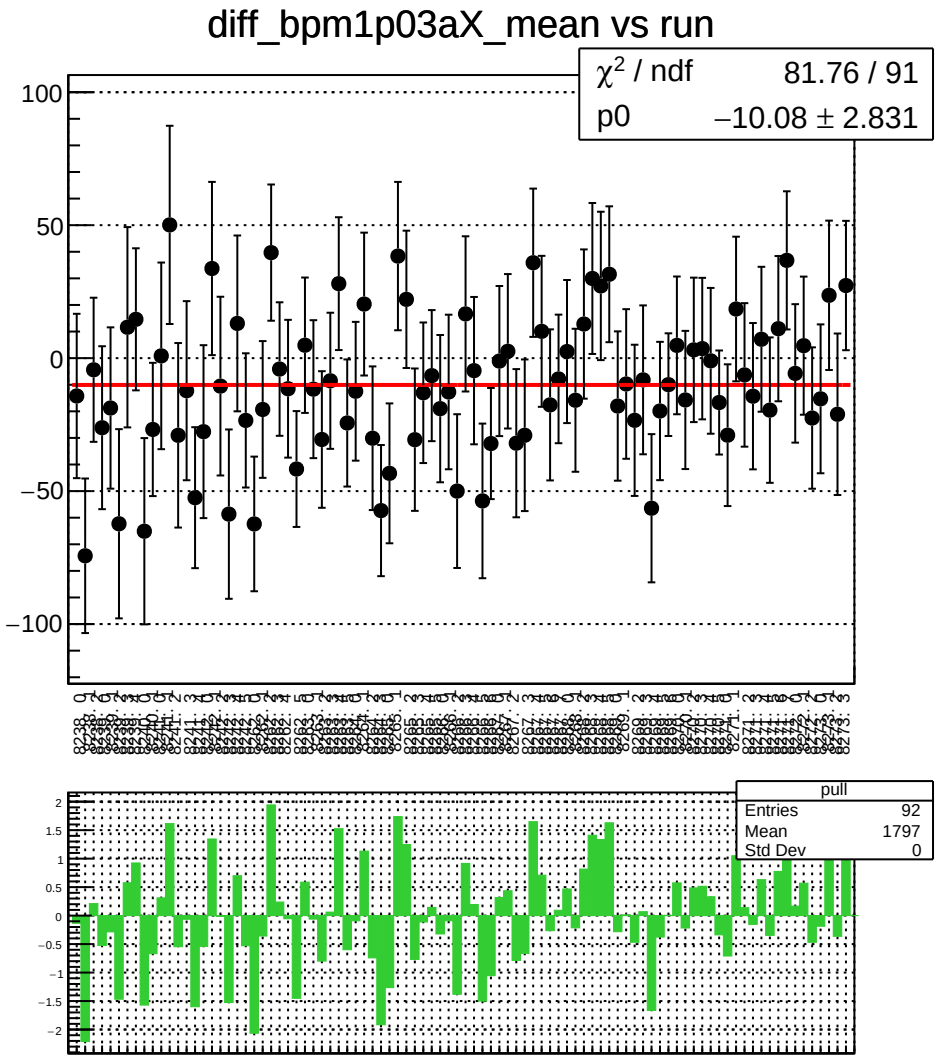

pull1D
Entries 92
Mean 0.01377
Std Dev 1.039

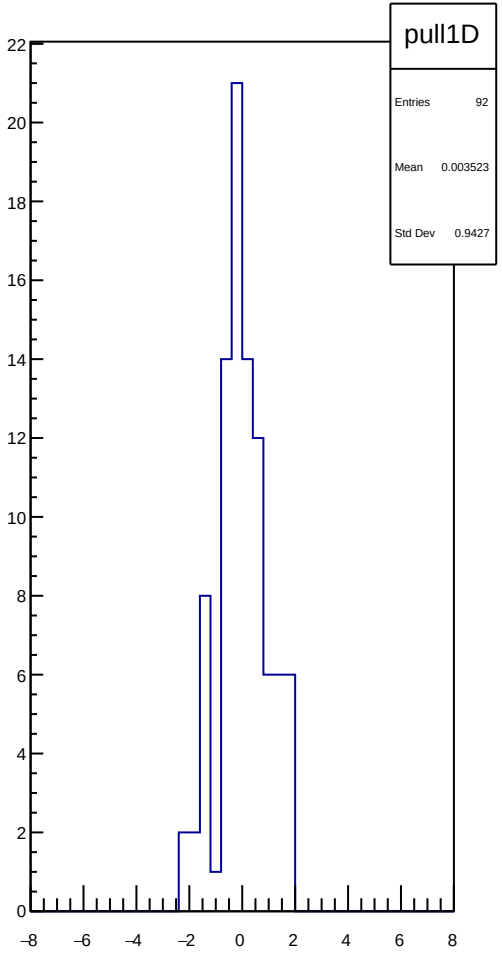

diff_bpm1p02bX_rms vs run
χ² / ndf 2592 / 91
p0 2337 ± 1.752
2600
2500
2400
2300
2200
2100

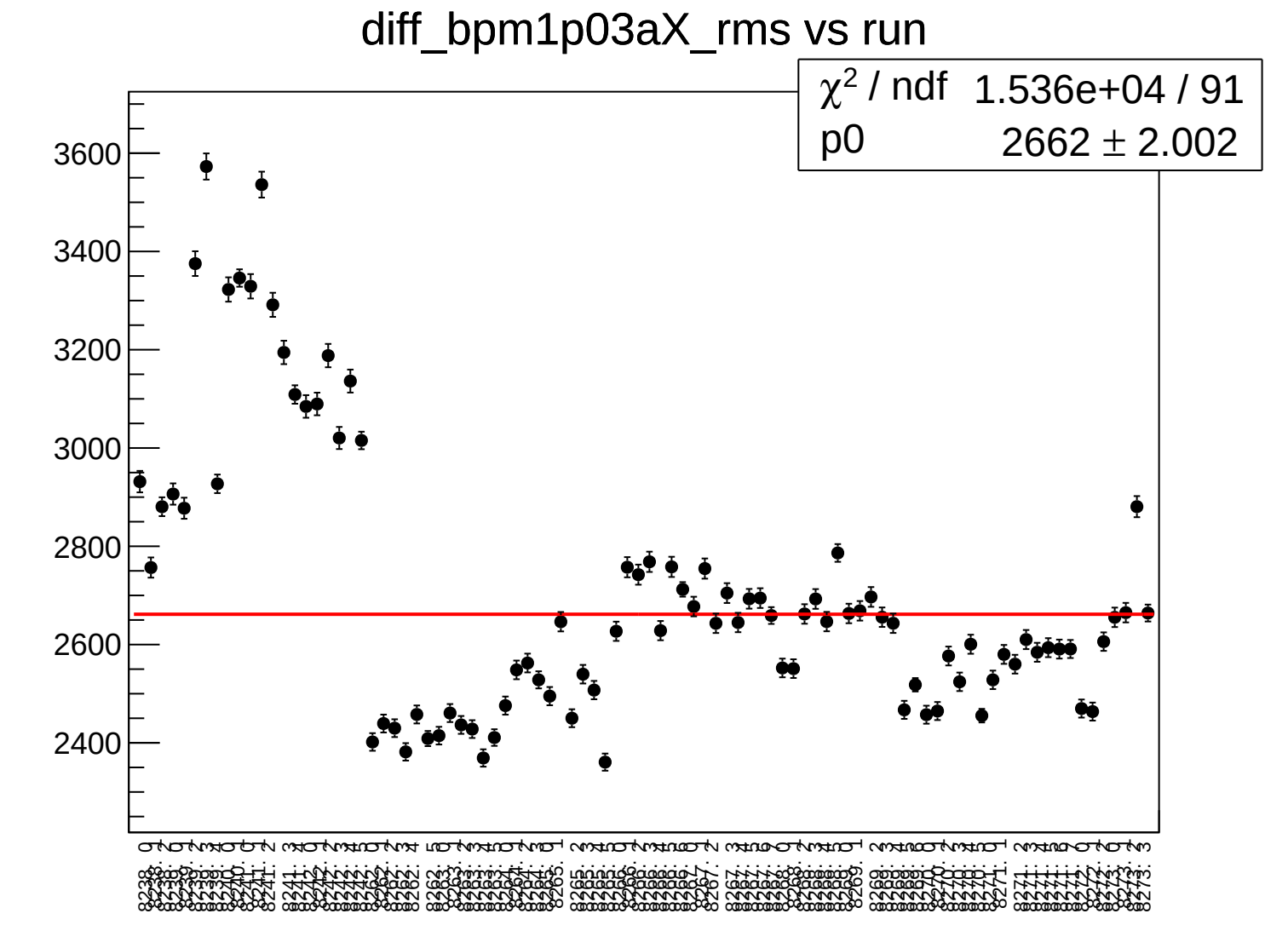

diff_bpm1p02bY_mean vs run
χ² / ndf 94.27 / 91
p0 −4.795 ± 1.549
pull
Entries 92
Mean 158
Std Dev 0

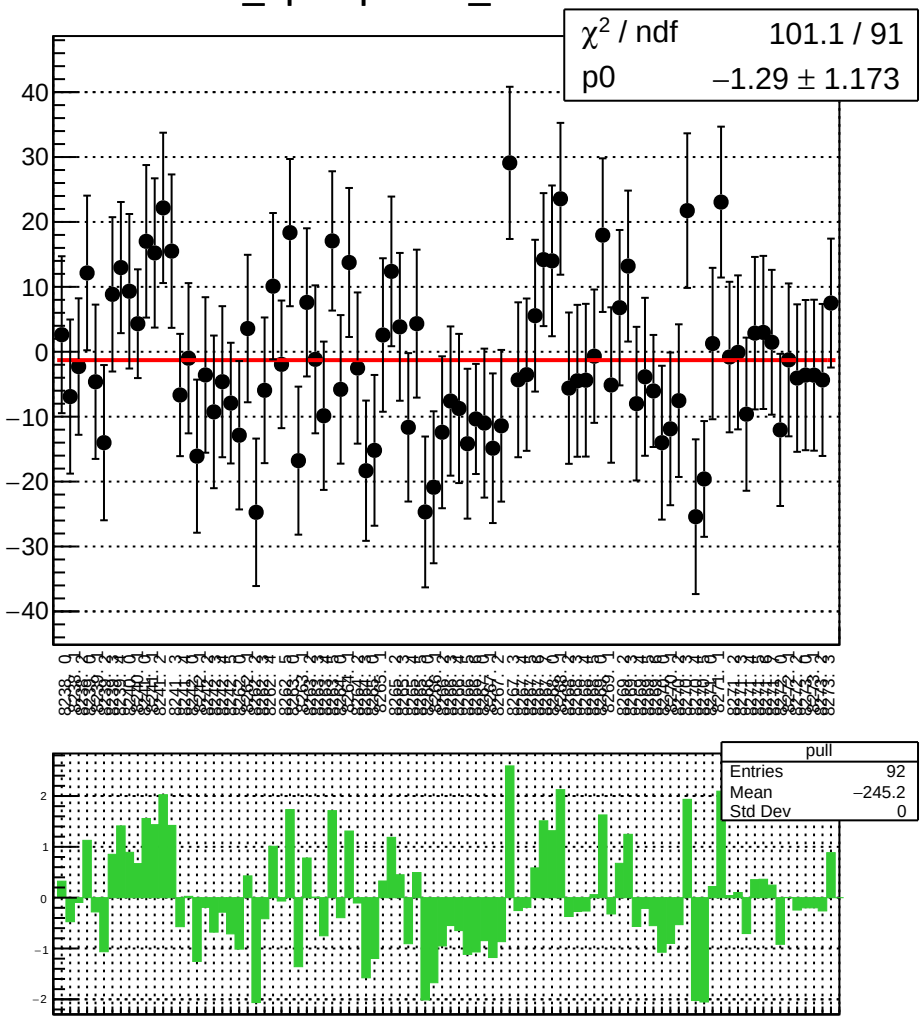

pull1D
Entries 92
Mean 0.01692
Std Dev 1.012

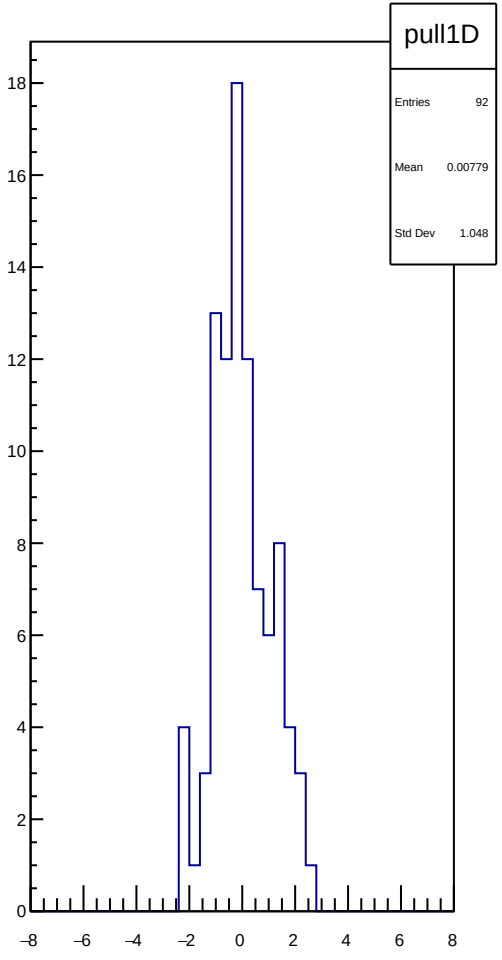

diff_bpm1p02bY_rms vs run
χ² / ndf 1085 / 91
p0 1462 ± 1.095
1600
1550
1500
1450
1400

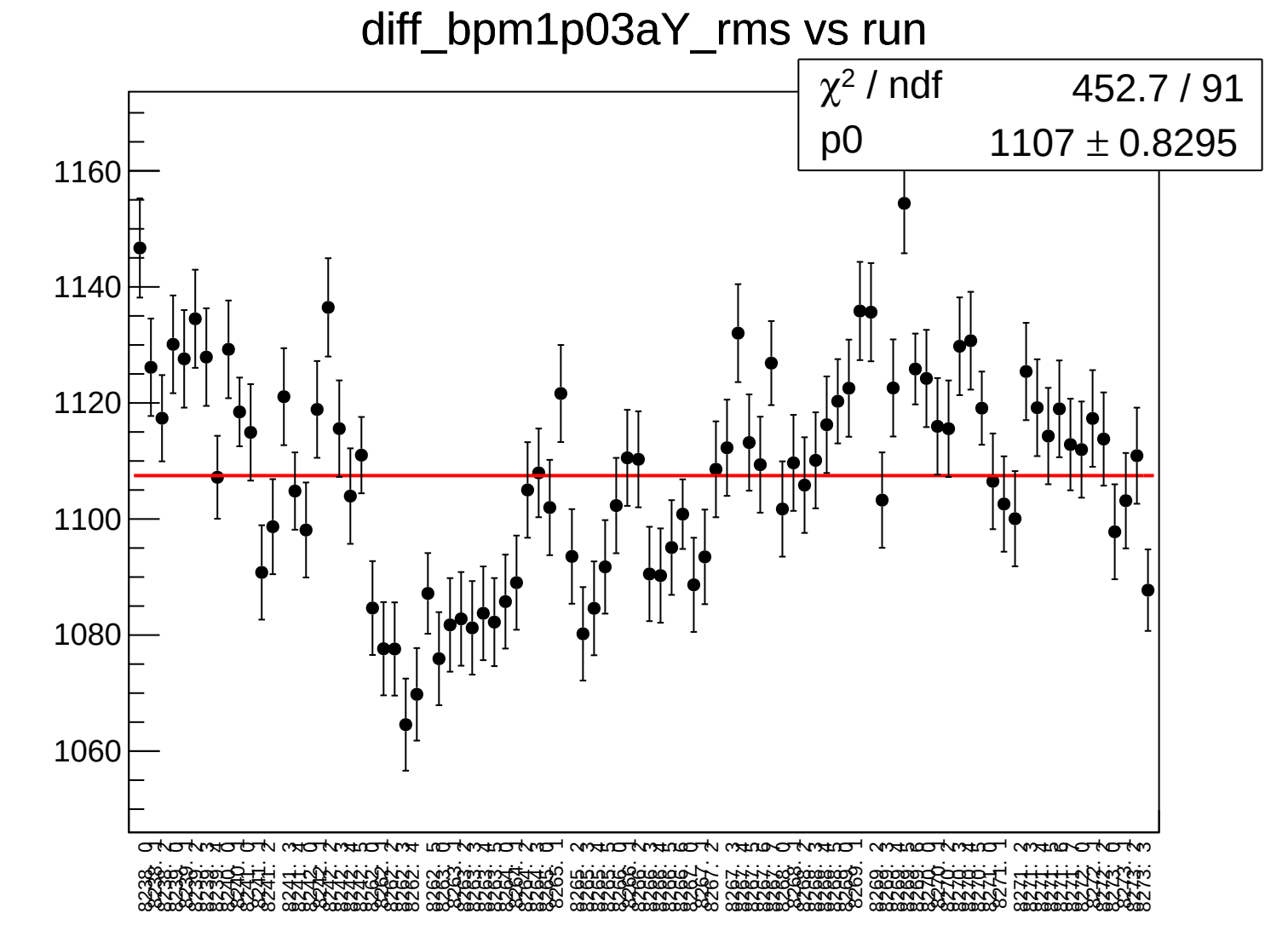

diff_bpm1p03aX_mean vs run
χ² / ndf 81.76 / 91
p0 −10.08 ± 2.831
pull
Entries 92
Mean 1797
Std Dev 0

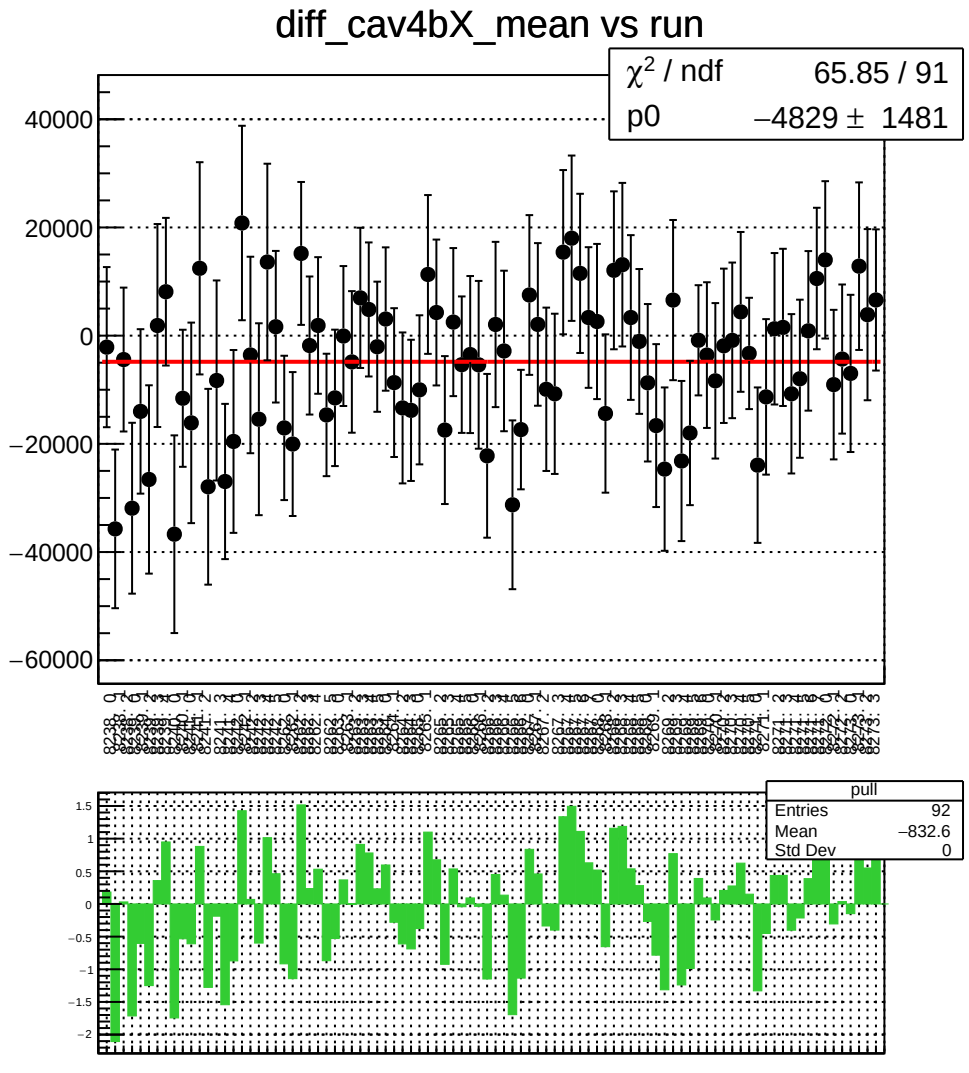

pull1D
Entries 92
Mean 0.003523
Std Dev 0.9427

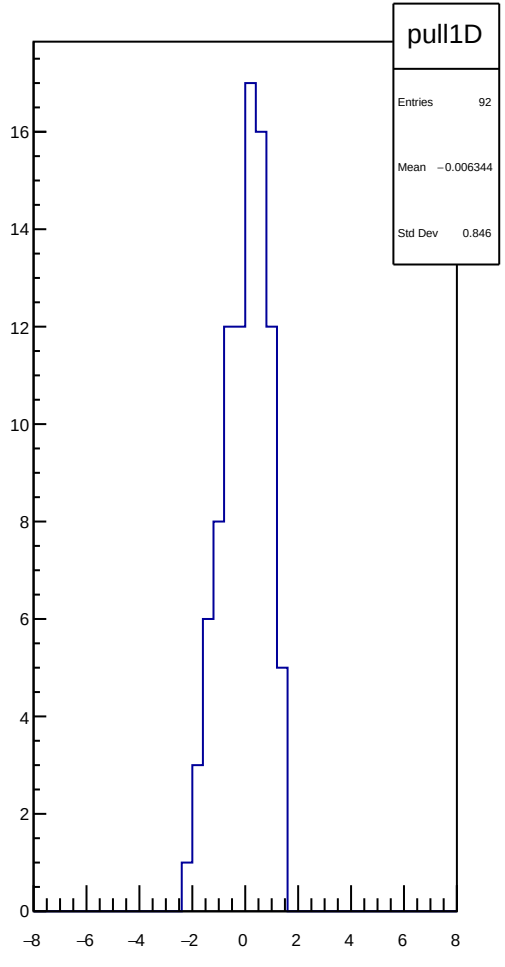

diff_bpm1p03aX_rms vs run
χ² / ndf 1.536e+04 / 91
p0 2662 ± 2.002
3600
3400
3200
3000
2800
2600
2400

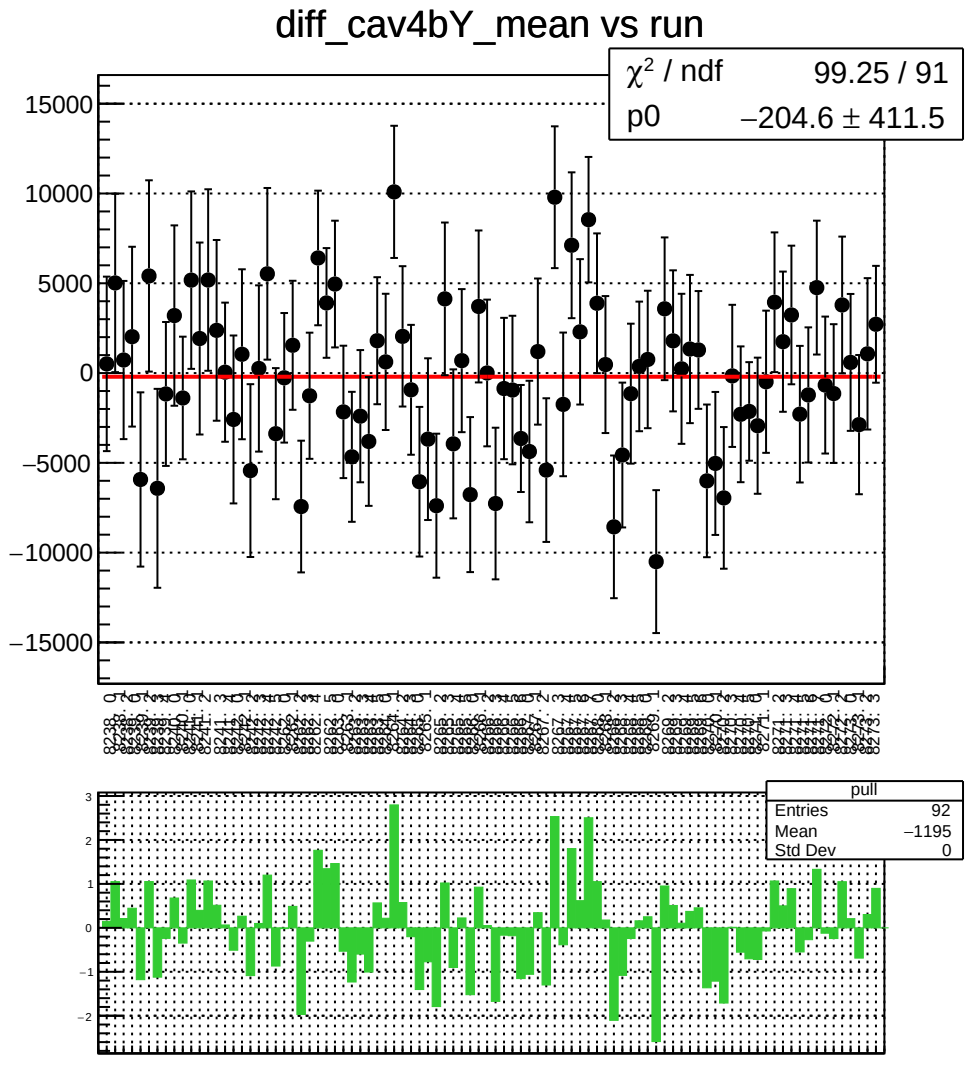

diff_bpm1p03aY_mean vs run
χ² / ndf 101.1 / 91
p0 −1.29 ± 1.173
pull
Entries 92
Mean −245.2
Std Dev 0

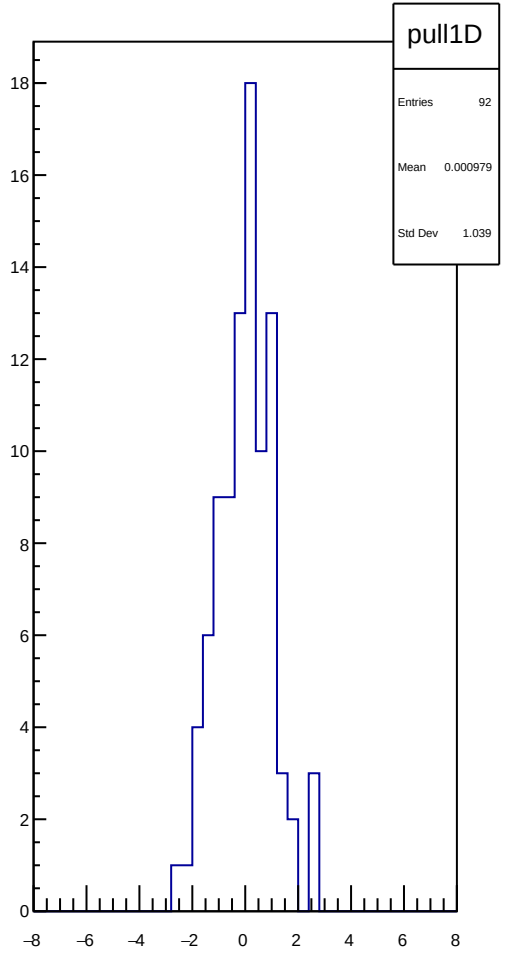

pull1D
Entries 92
Mean 0.00779
Std Dev 1.048

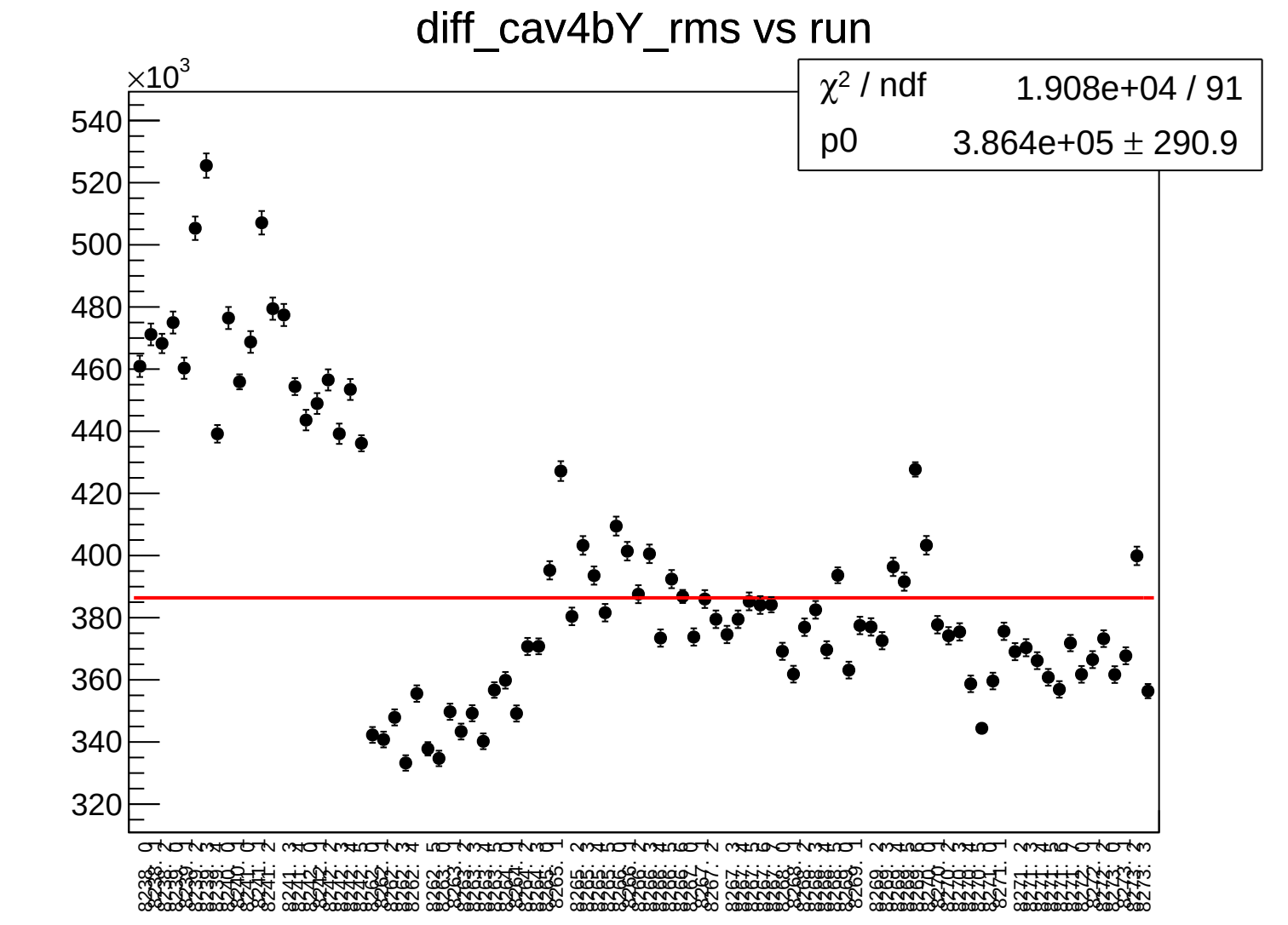

diff_bpm1p03aY_rms vs run
χ² / ndf 452.7 / 91
p0 1107 ± 0.8295
1160
1140
1120
1100
1080
1060

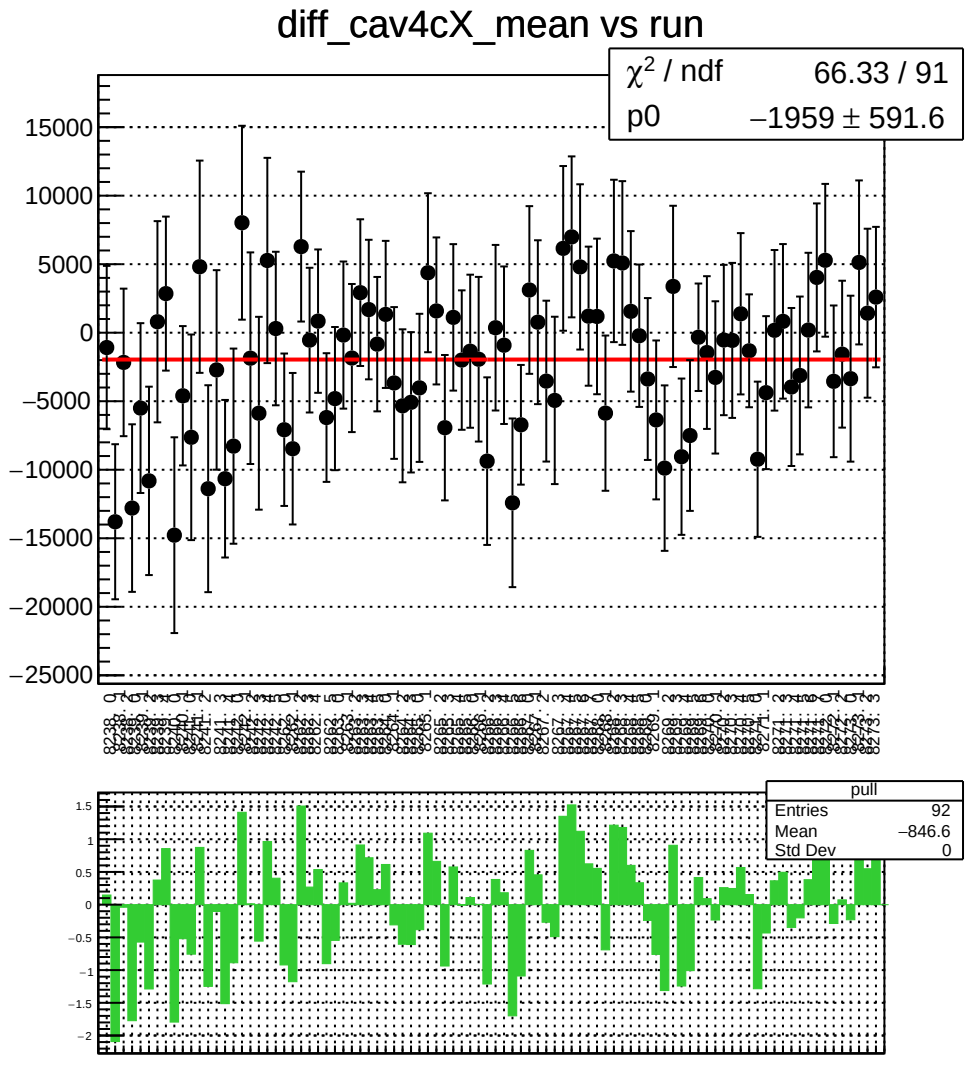

diff_cav4bX_mean vs run
χ² / ndf 65.85 / 91
p0 −4829 ± 1481
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −832.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

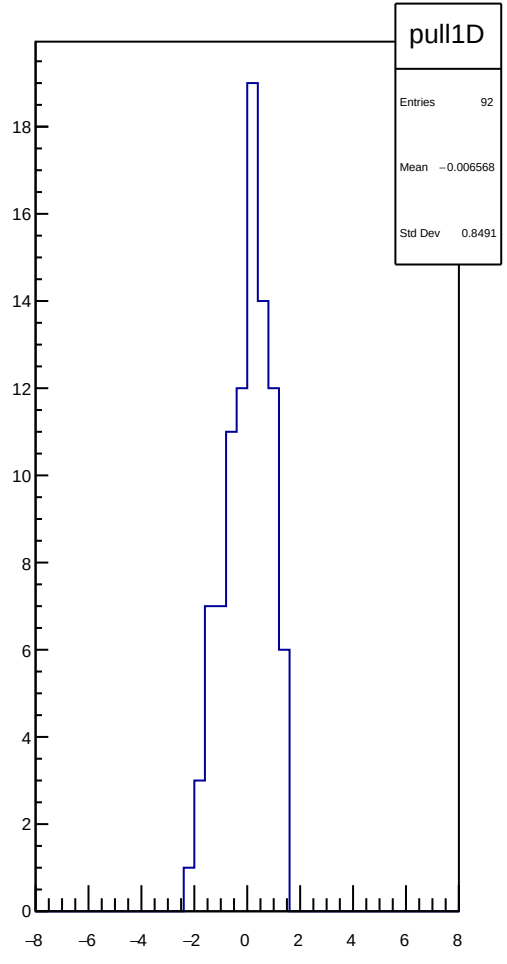

pull1D
Entries 92
Mean −0.006344
Std Dev 0.846
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

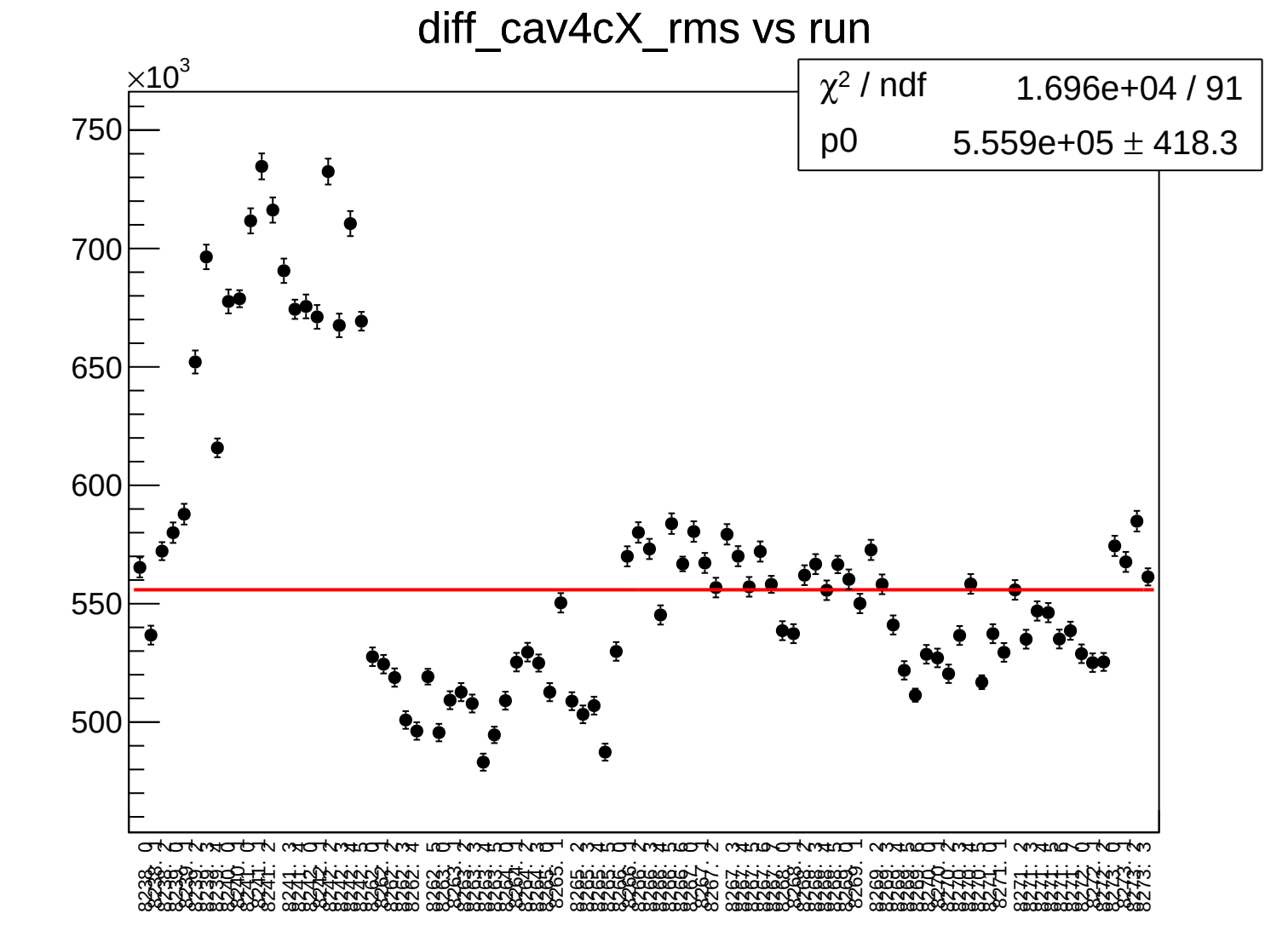

diff_cav4bY_mean vs run
χ² / ndf 99.25 / 91
p0 −204.6 ± 411.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −1195
Std Dev 0
3
2
1
0
−1
−2

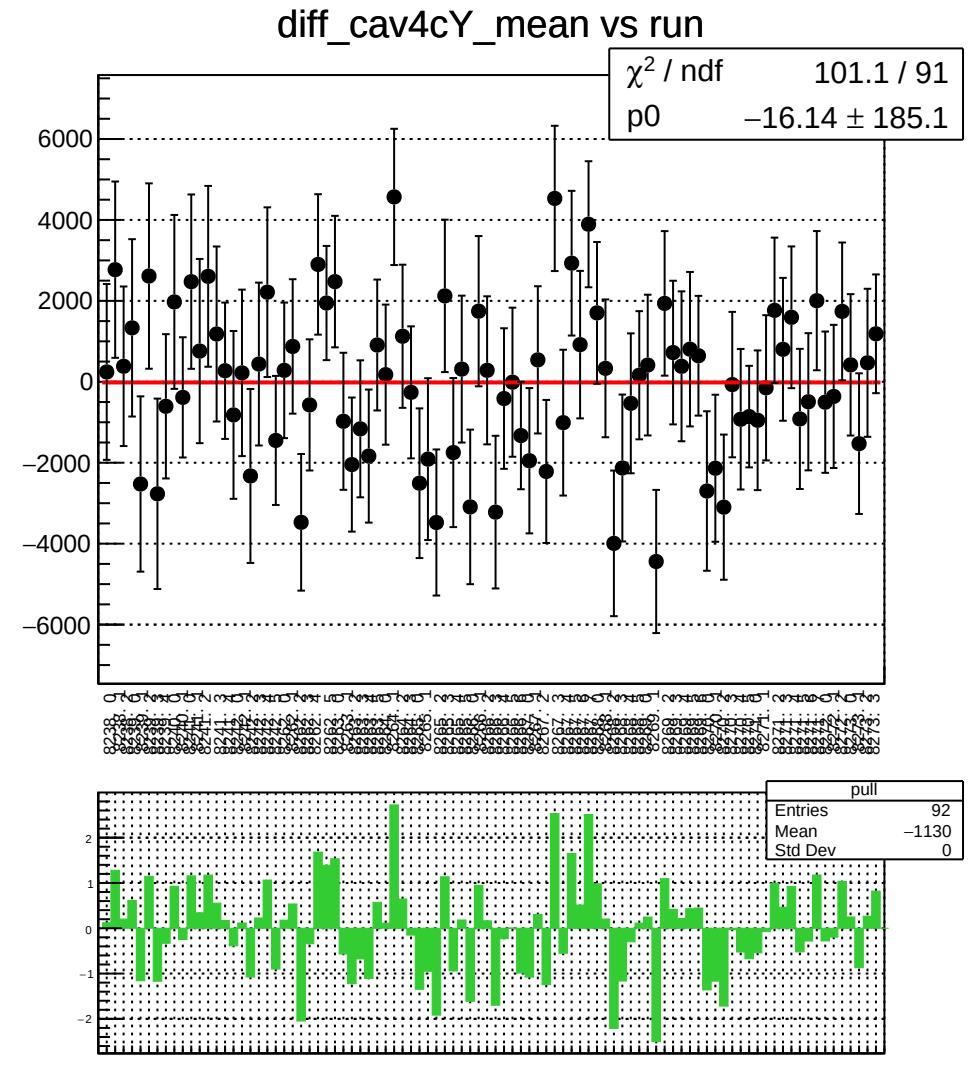

pull1D
Entries 92
Mean 0.000979
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

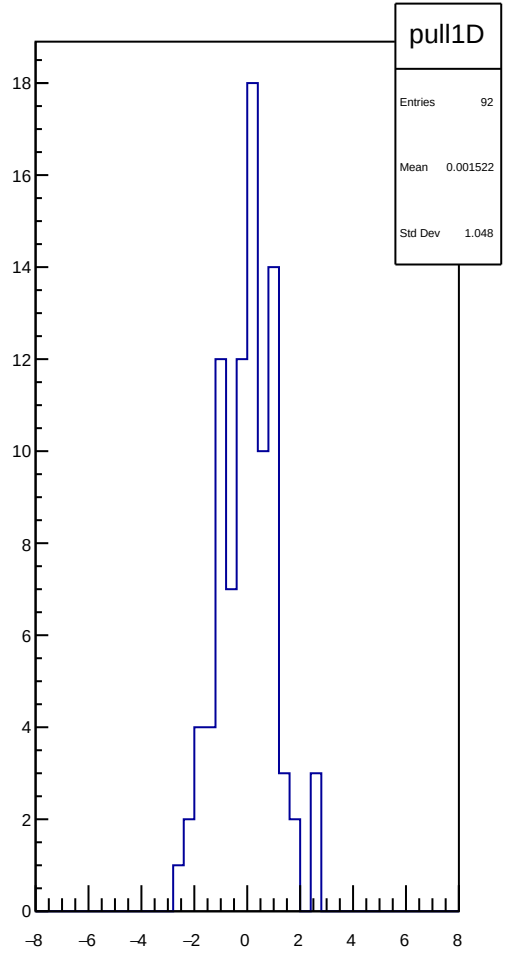

diff_cav4bY_rms vs run
×10^3
χ^2 / ndf 1.908e+04 / 91
p0 3.864e+05 ± 290.9
540
520
500
480
460
440
420
400
380
360
340
320

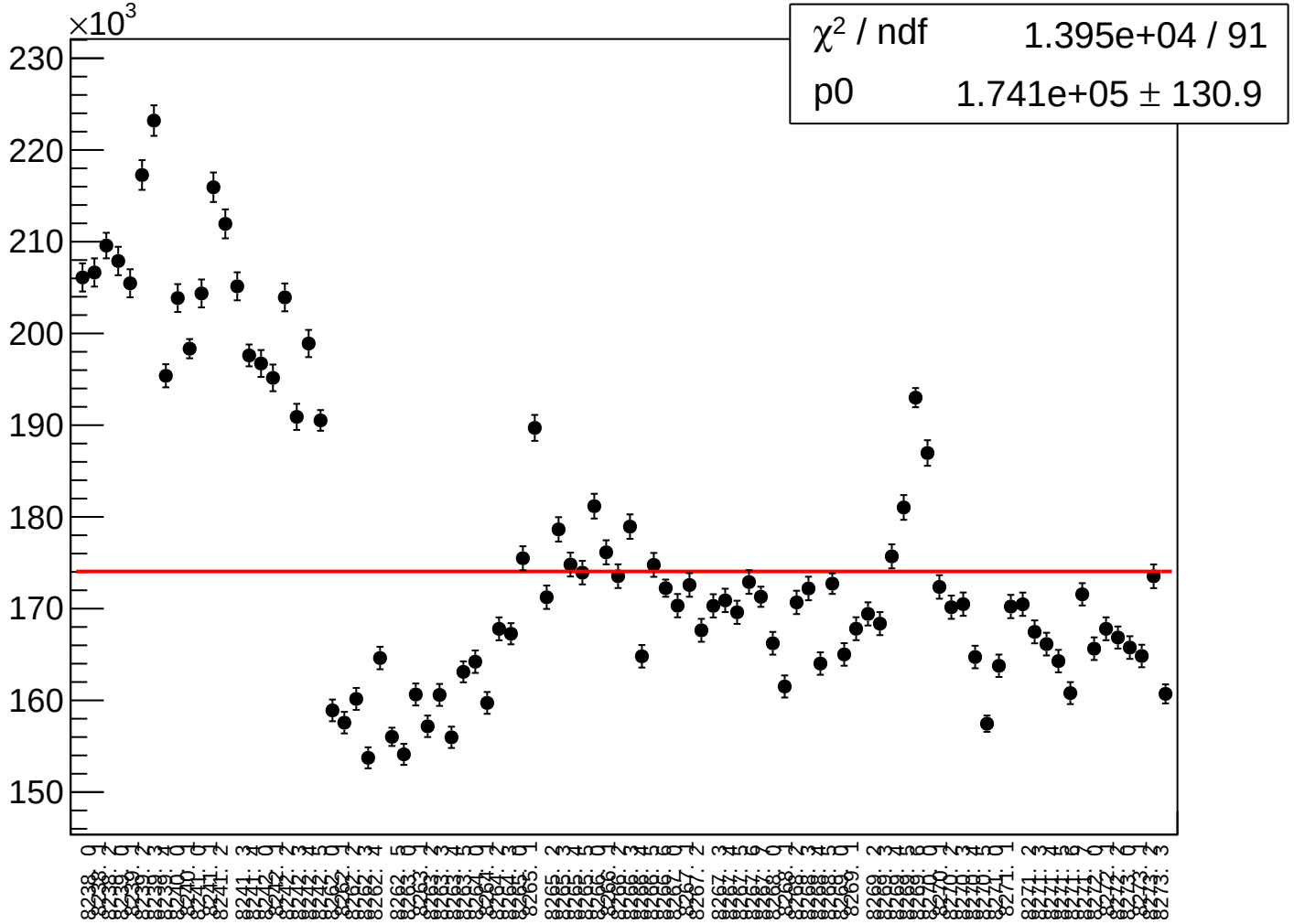

diff_cav4cX_mean vs run
χ² / ndf 66.33 / 91
p0 −1959 ± 591.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 92
Mean −846.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

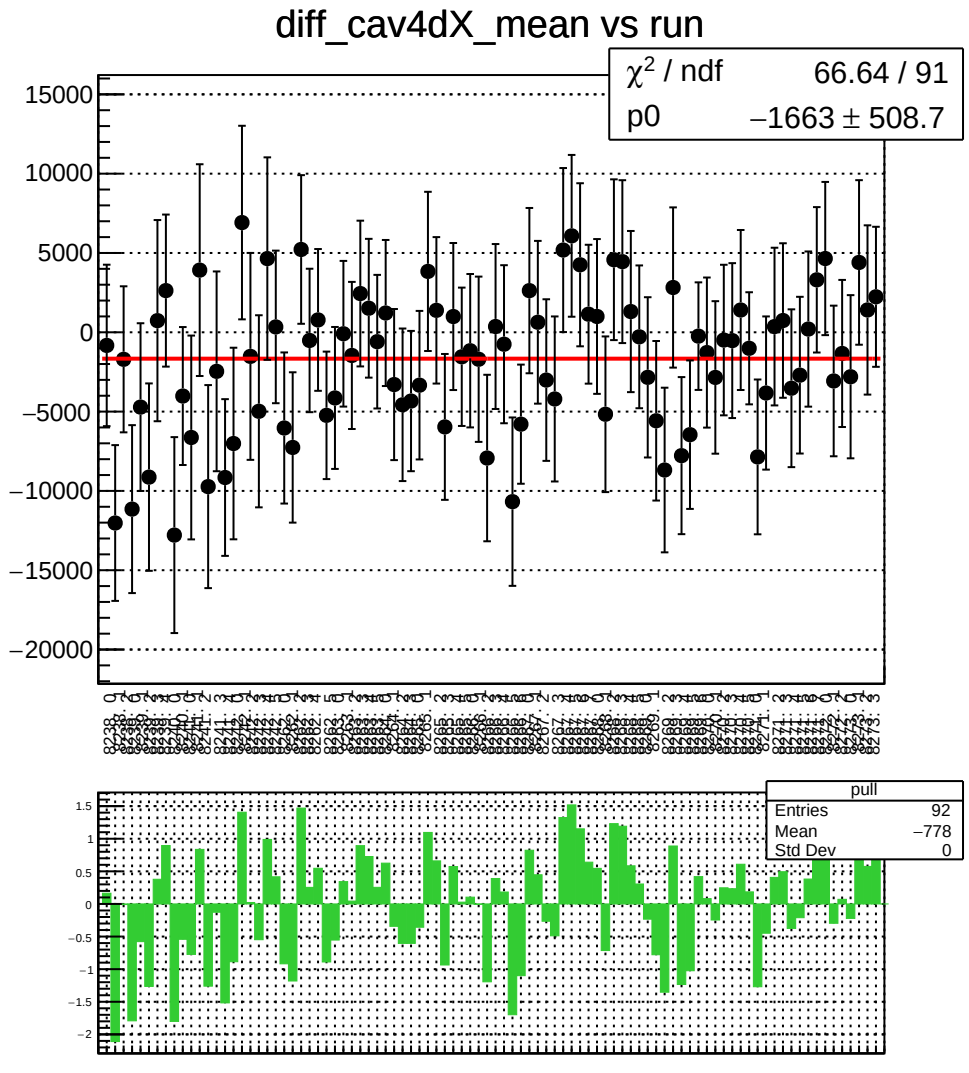

pull1D
Entries 92
Mean −0.006568
Std Dev 0.8491
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

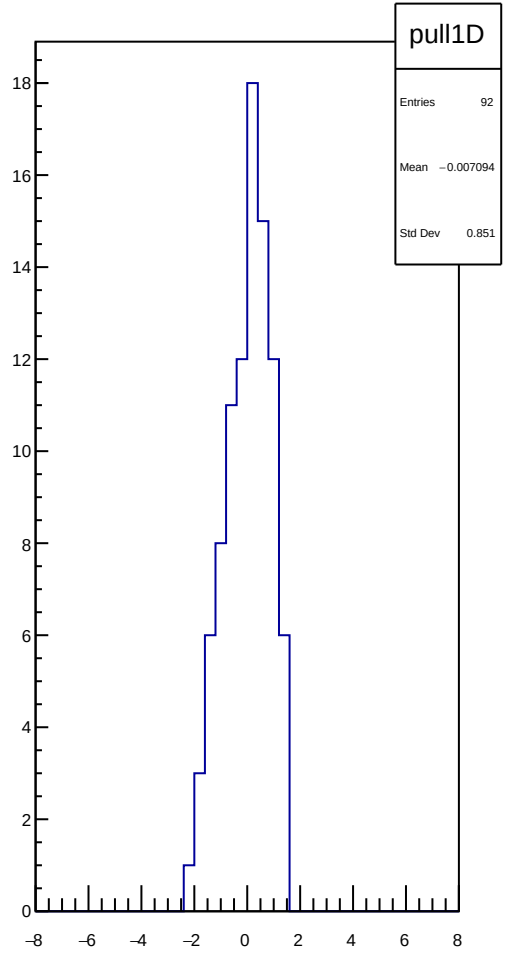

diff_cav4cX_rms vs run
×10^3
χ² / ndf 1.696e+04 / 91
p0 5.559e+05 ± 418.3
750
700
650
600
550
500

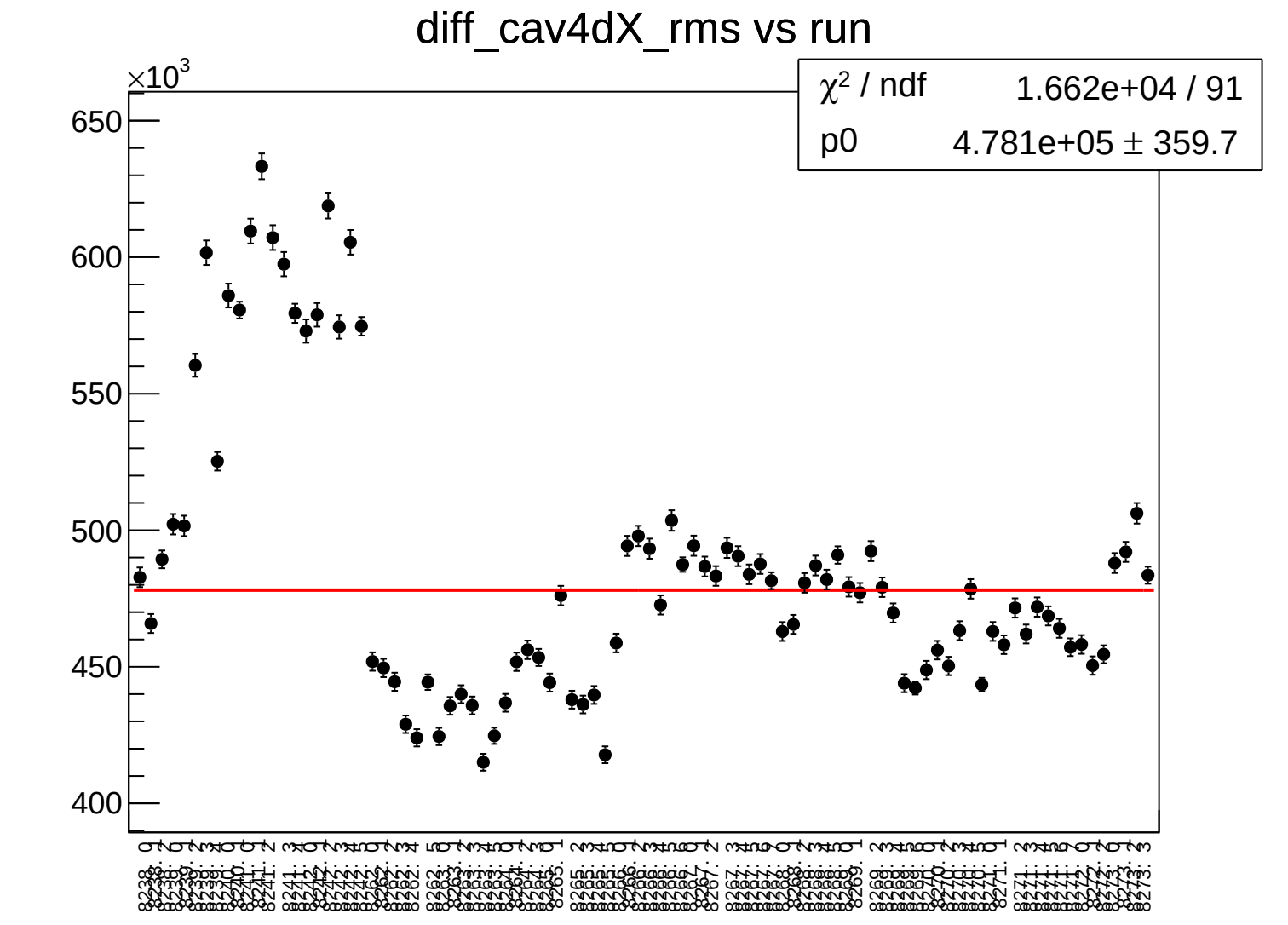

diff_cav4cY_mean vs run
χ² / ndf 101.1 / 91
p0 −16.14 ± 185.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −1130
Std Dev 0
2
1
0
−1
−2

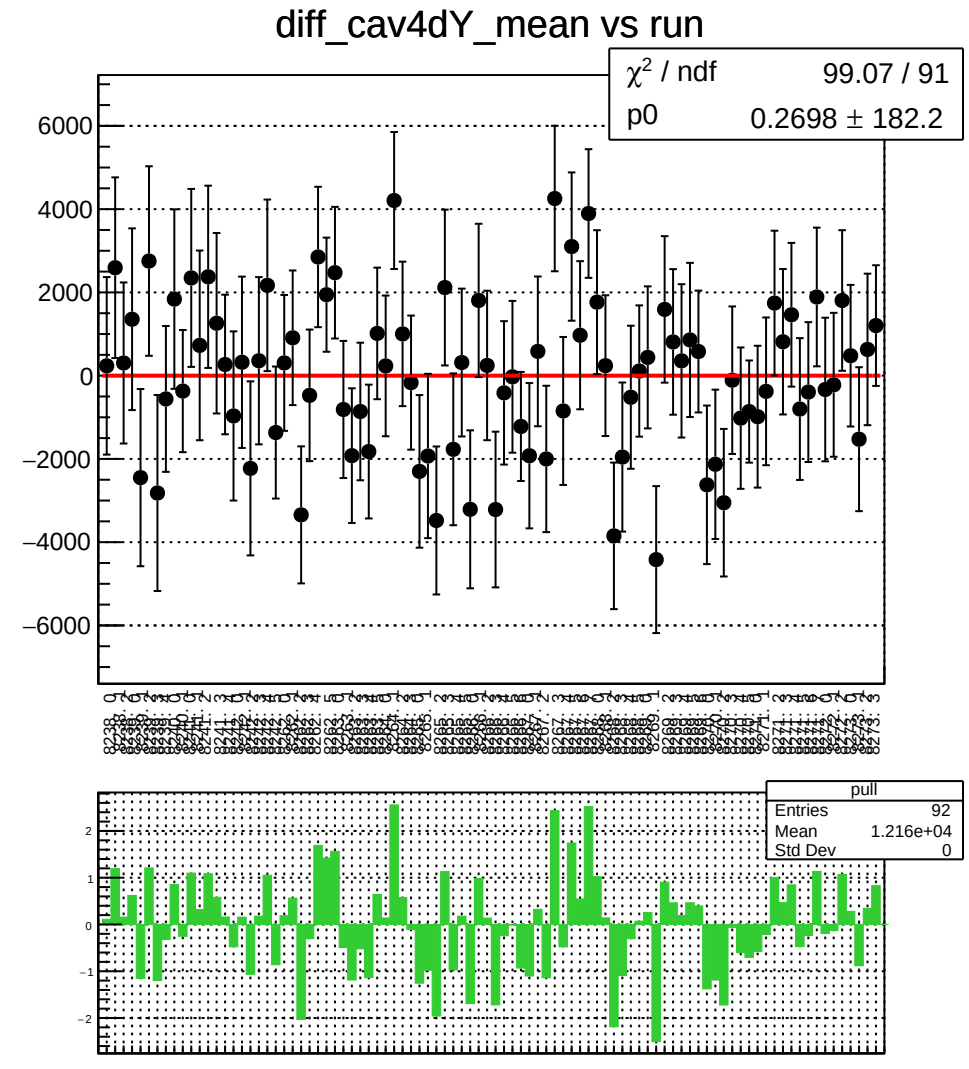

pull1D
Entries 92
Mean 0.001522
Std Dev 1.048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

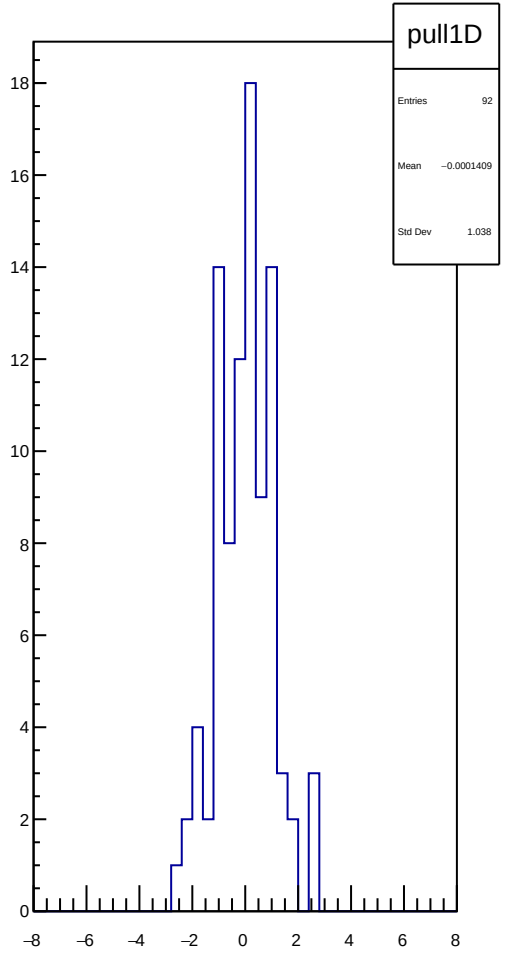

diff_cav4cY_rms vs run
×10^3
230
220
210
200
190
180
170
160
150
χ² / ndf 1.395e+04 / 91
p0 1.741e+05 ± 130.9

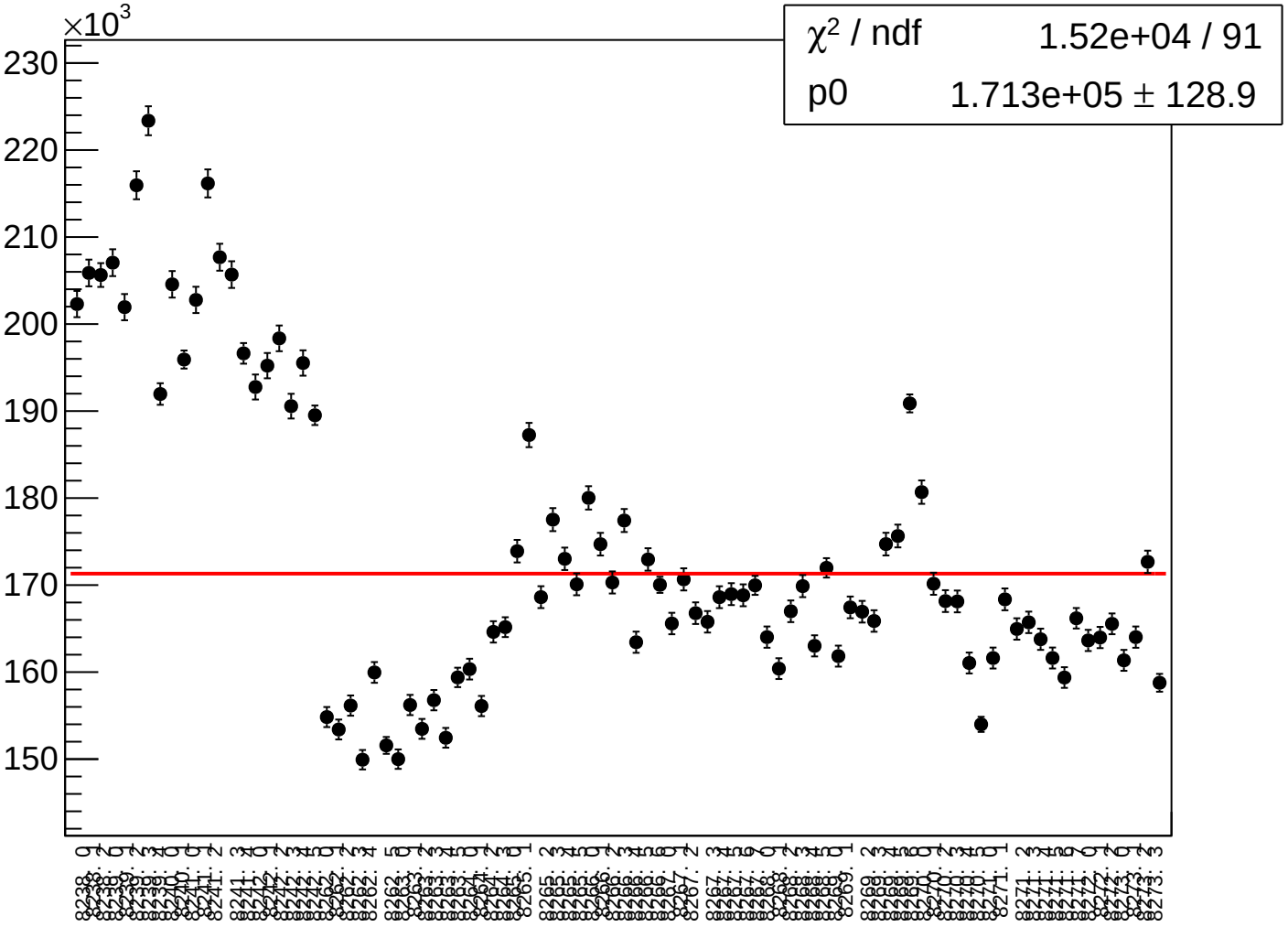

diff_cav4dX_mean vs run
χ² / ndf 66.64 / 91
p0 −1663 ± 508.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean −778
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

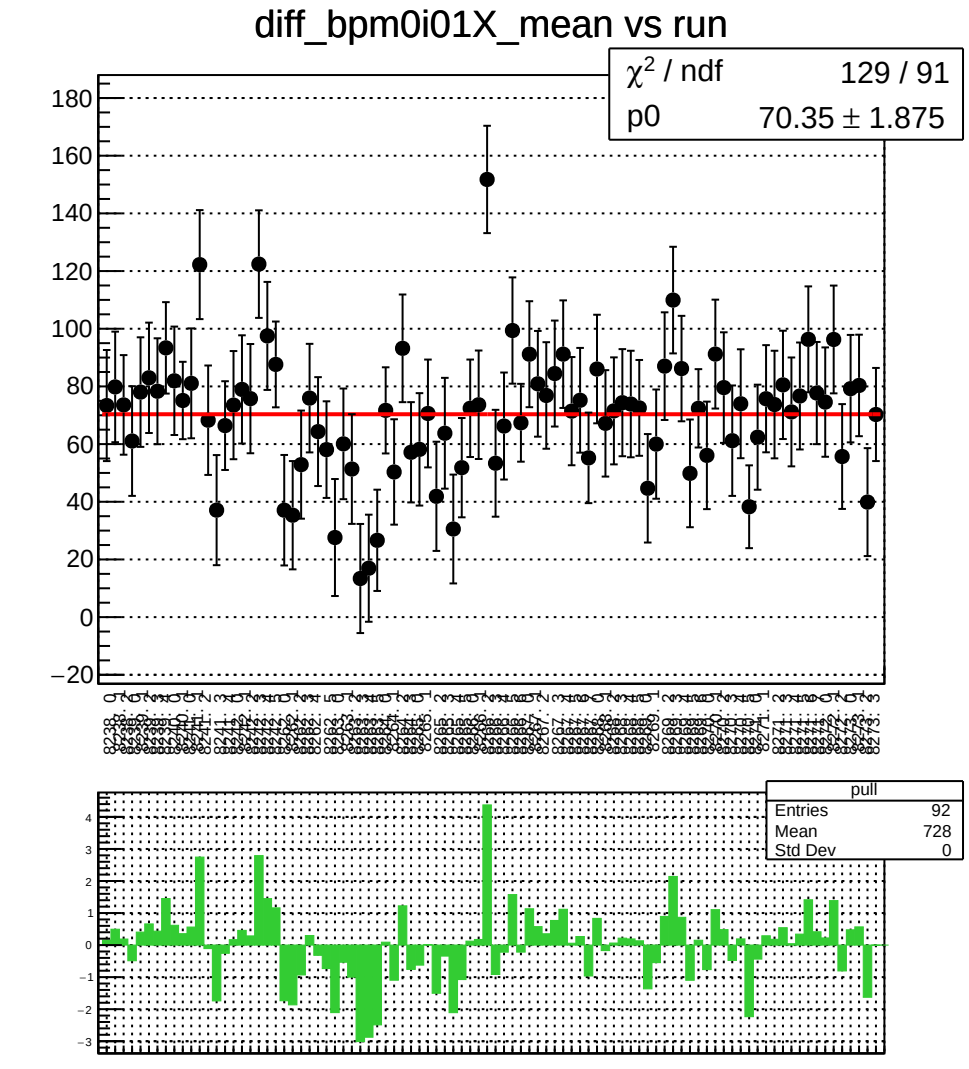

pull1D
Entries 92
Mean −0.007094
Std Dev 0.851
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

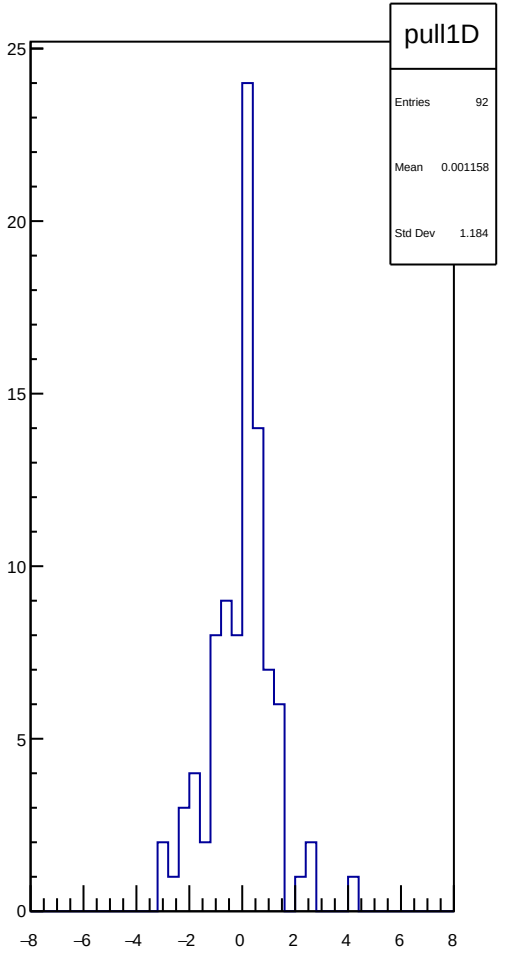

diff_cav4dX_rms vs run
×10^3
650
600
550
500
450
400
χ² / ndf 1.662e+04 / 91
p0 4.781e+05 ± 359.7

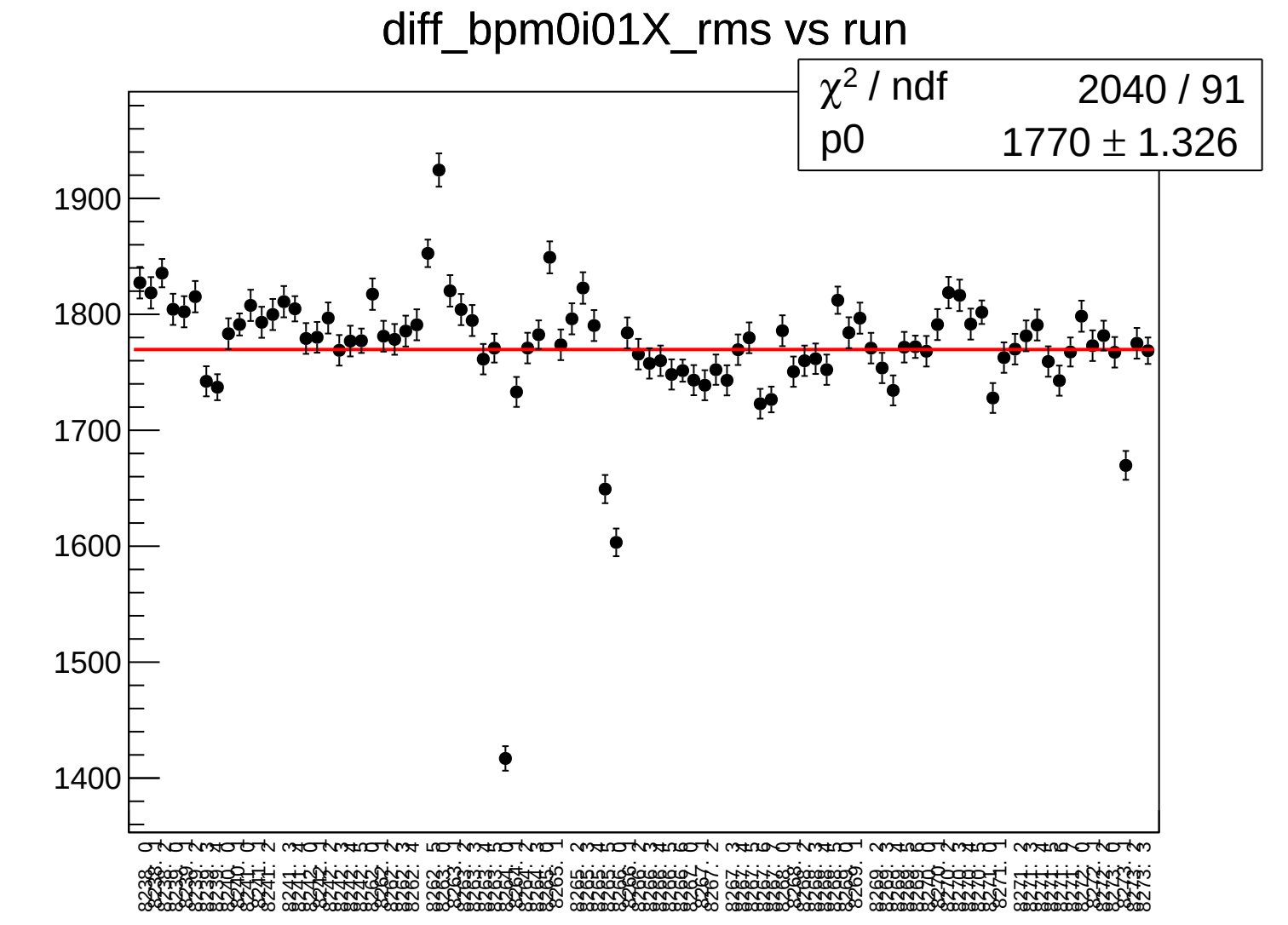

diff_cav4dY_mean vs run
χ² / ndf 99.07 / 91
p0 0.2698 ± 182.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean 1.216e+04
Std Dev 0
2
1
0
−1
−2

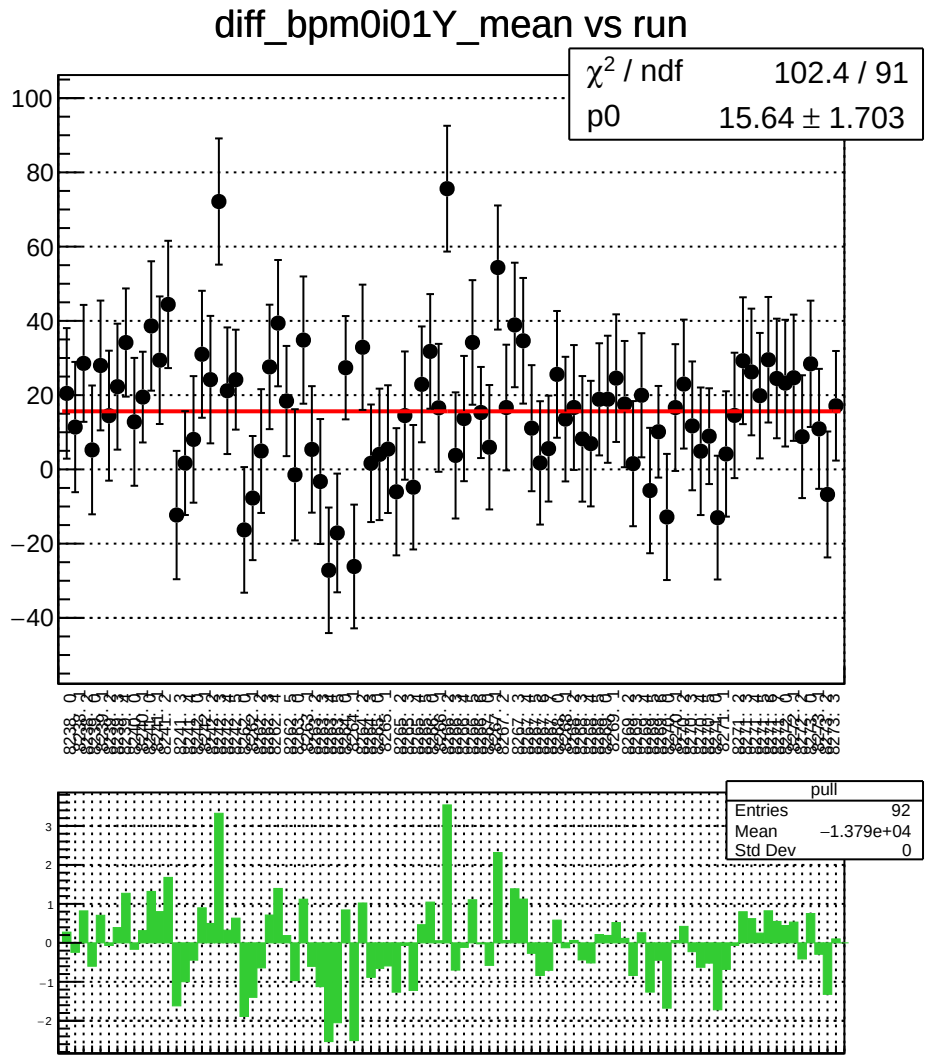

pull1D
Entries 92
Mean −0.0001409
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

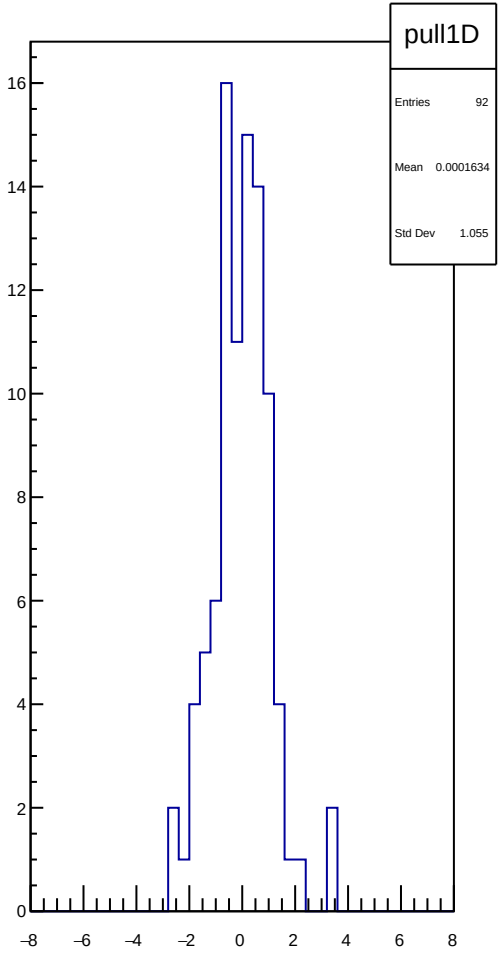

diff_cav4dY_rms vs run
×10^3
230
220
210
200
190
180
170
160
150
χ² / ndf 1.52e+04 / 91
p0 1.713e+05 ± 128.9

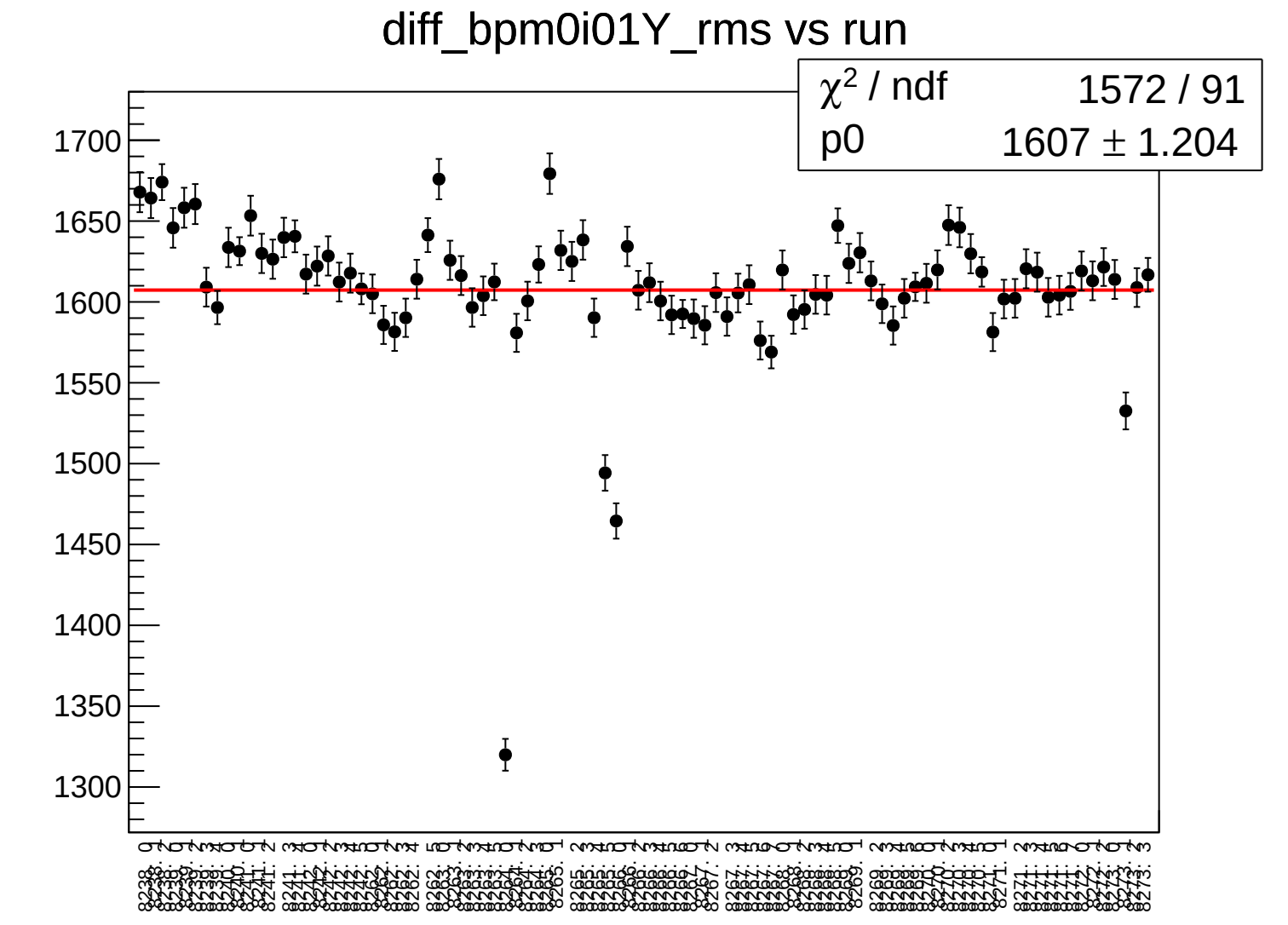

diff_bpm0i01X_mean vs run
χ² / ndf 129 / 91
p0 70.35 ± 1.875
pull
Entries 92
Mean 728
Std Dev 0

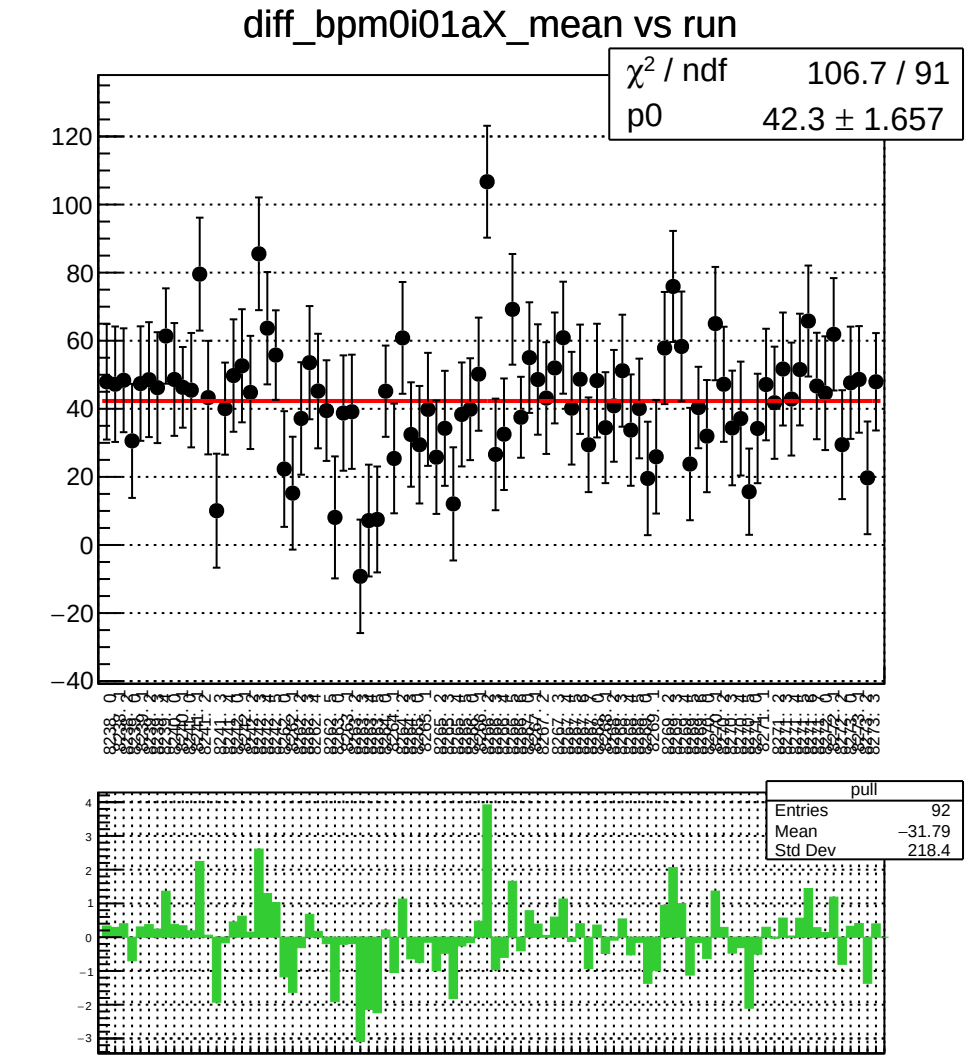

pull1D
Entries 92
Mean 0.001158
Std Dev 1.184

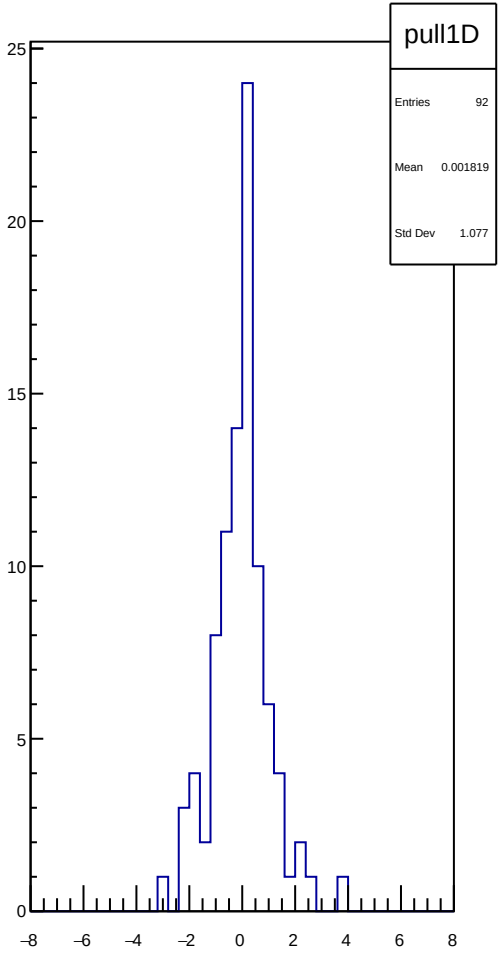

diff_bpm0i01X_rms vs run
χ² / ndf 2040 / 91
p0 1770 ± 1.326
1900
1800
1700
1600
1500
1400

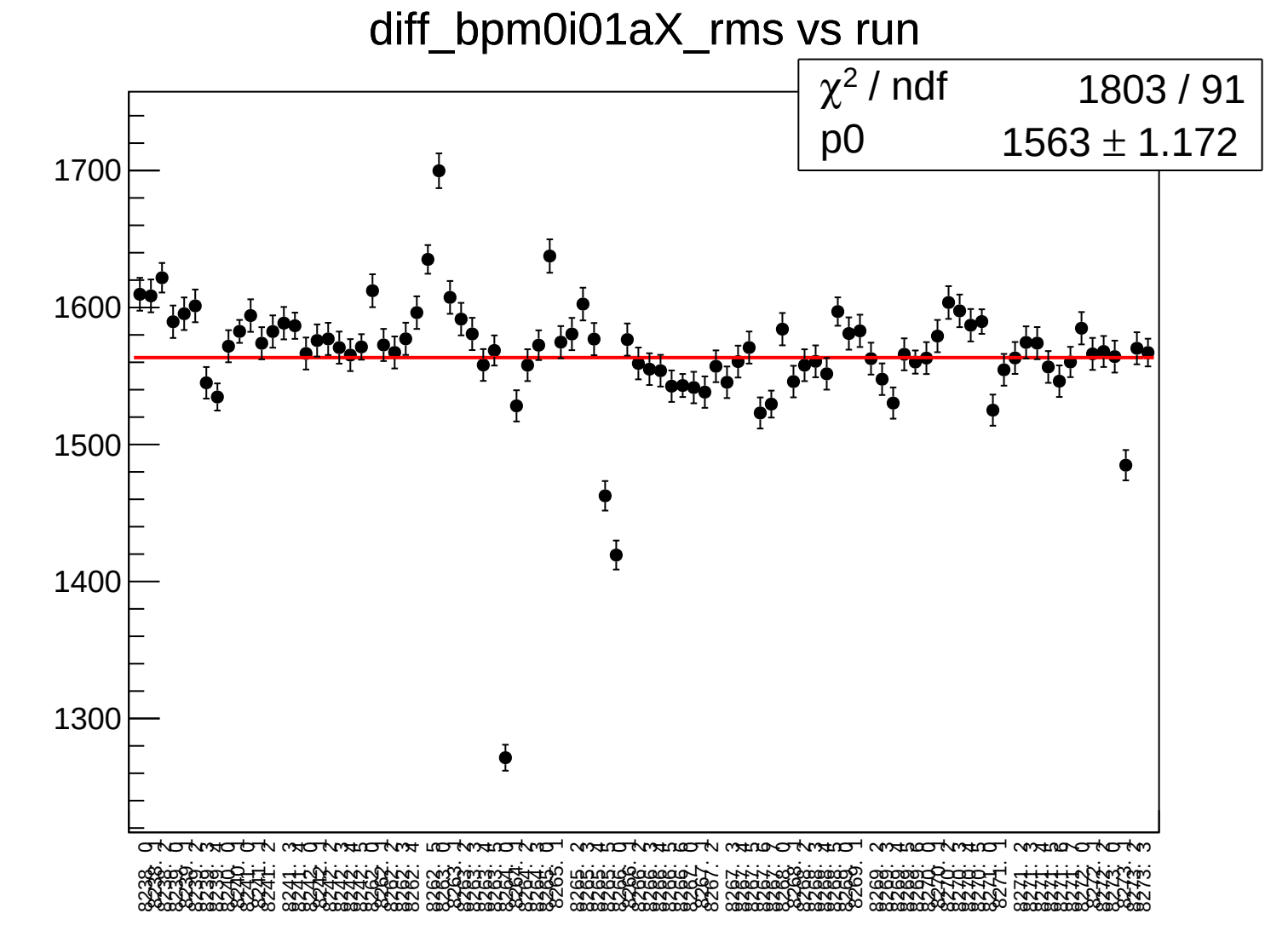

diff_bpm0i01Y_mean vs run
χ² / ndf 102.4 / 91
p0 15.64 ± 1.703
pull
Entries 92
Mean −1.379e+04
Std Dev 0

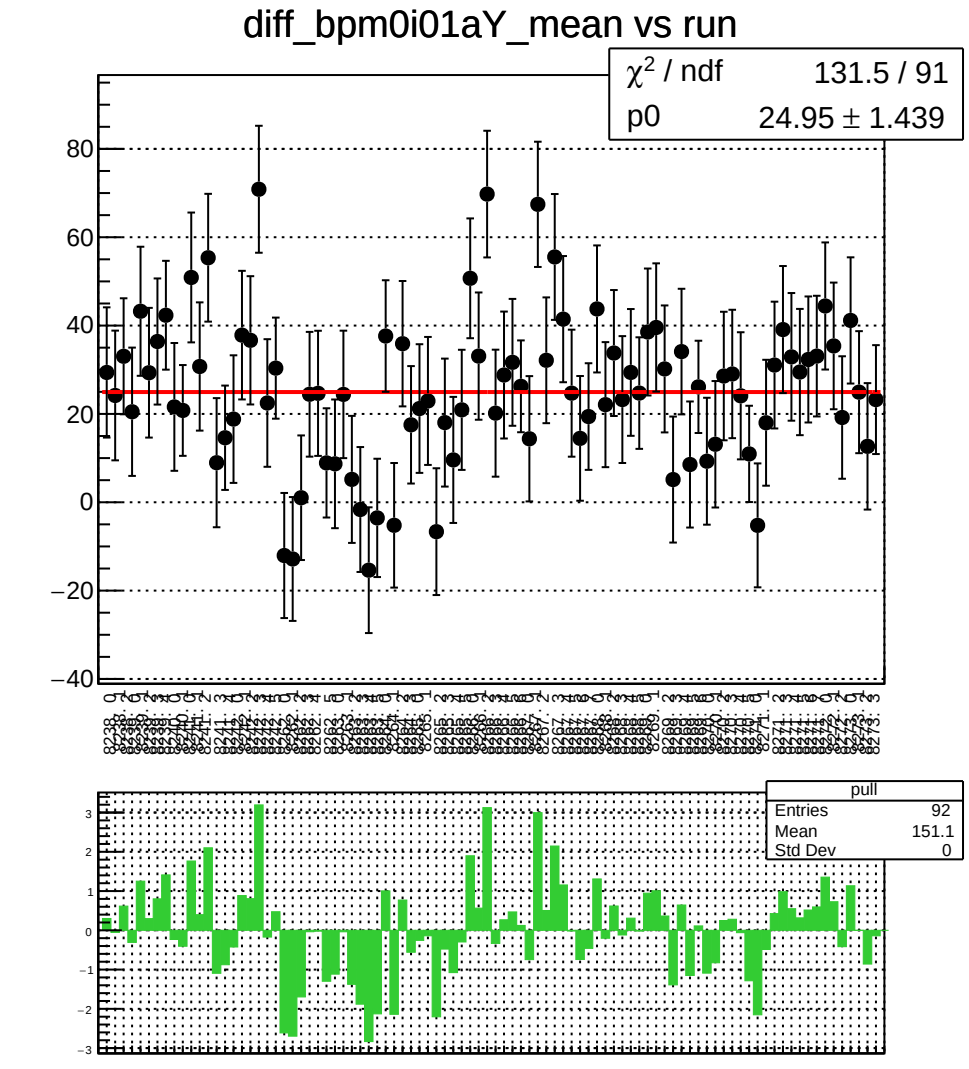

pull1D
Entries 92
Mean 0.0001634
Std Dev 1.055

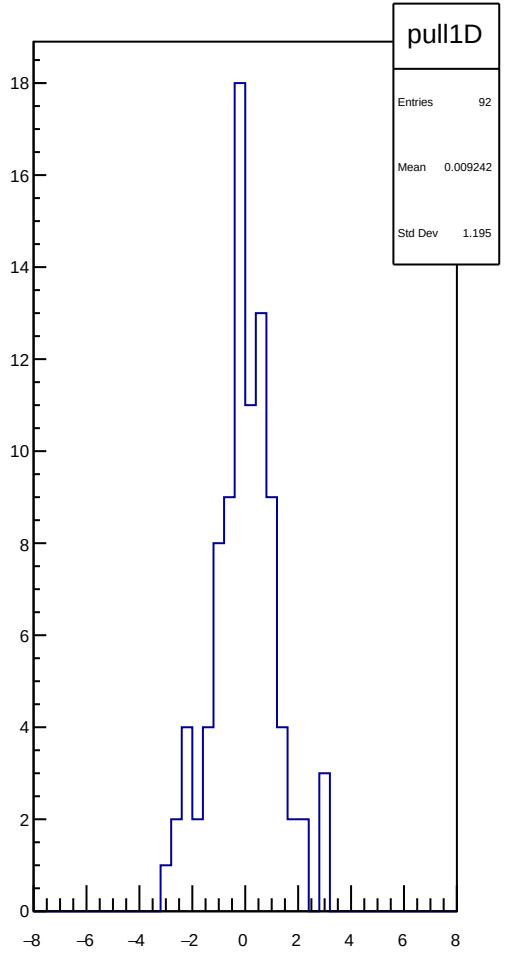

diff_bpm0i01Y_rms vs run
χ² / ndf 1572 / 91
p0 1607 ± 1.204
1700
1650
1600
1550
1500
1450
1400
1350
1300

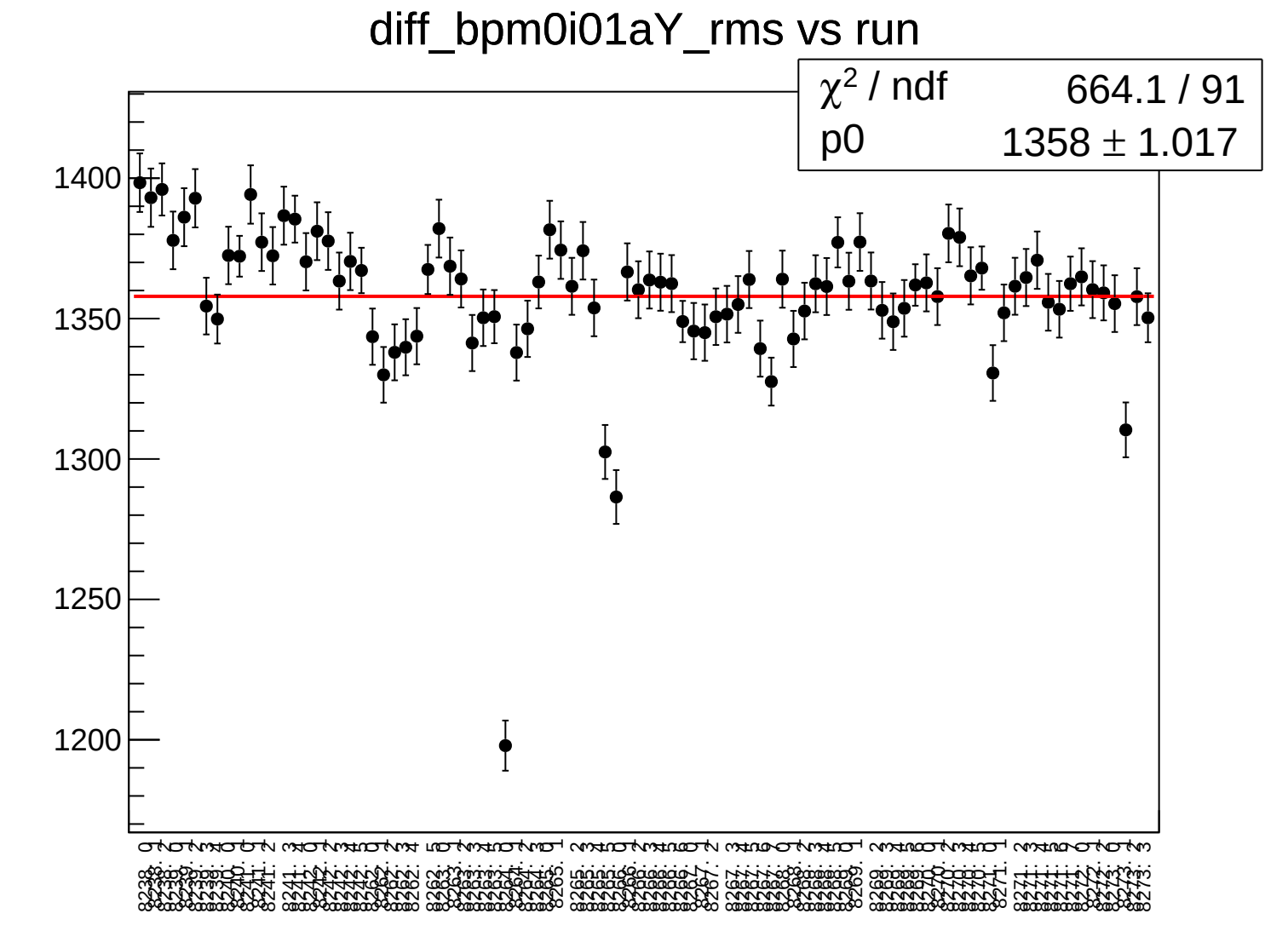

diff_bpm0i01aX_mean vs run
χ² / ndf 106.7 / 91
p0 42.3 ± 1.657
pull
Entries 92
Mean −31.79
Std Dev 218.4

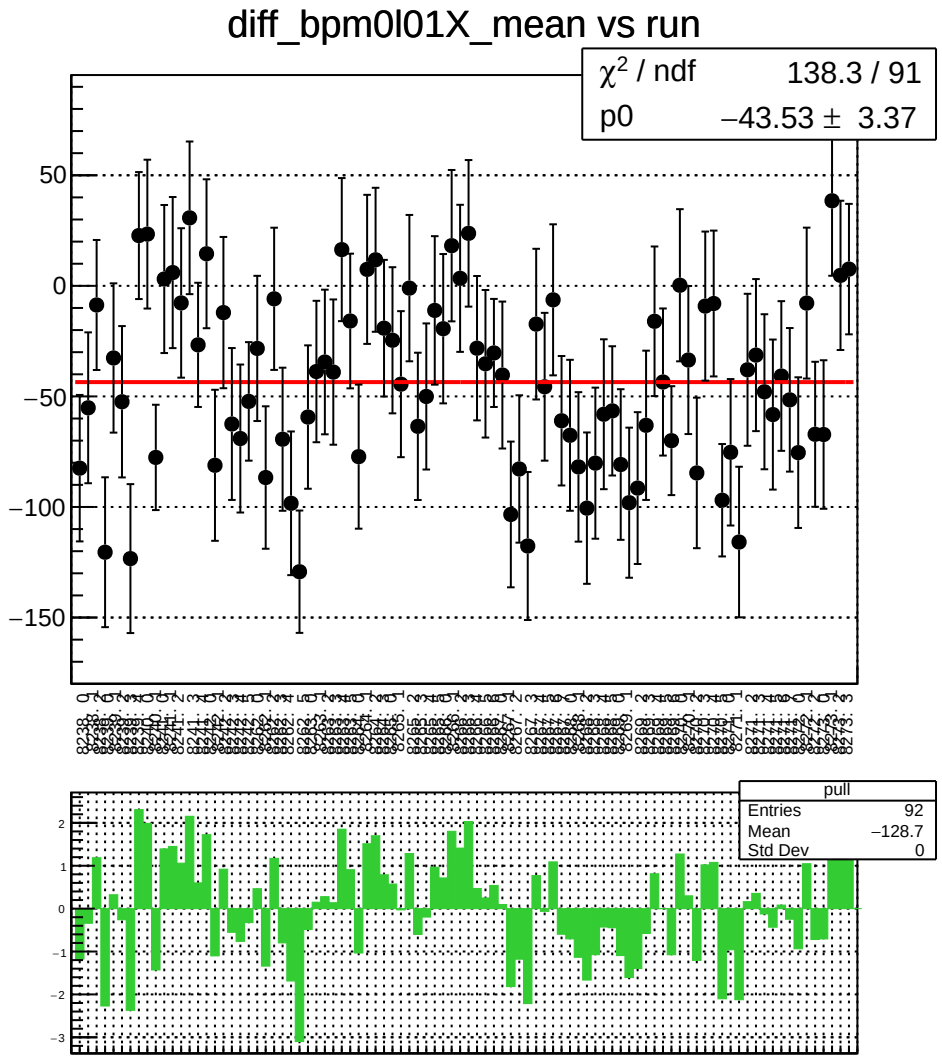

pull1D
Entries 92
Mean 0.001819
Std Dev 1.077

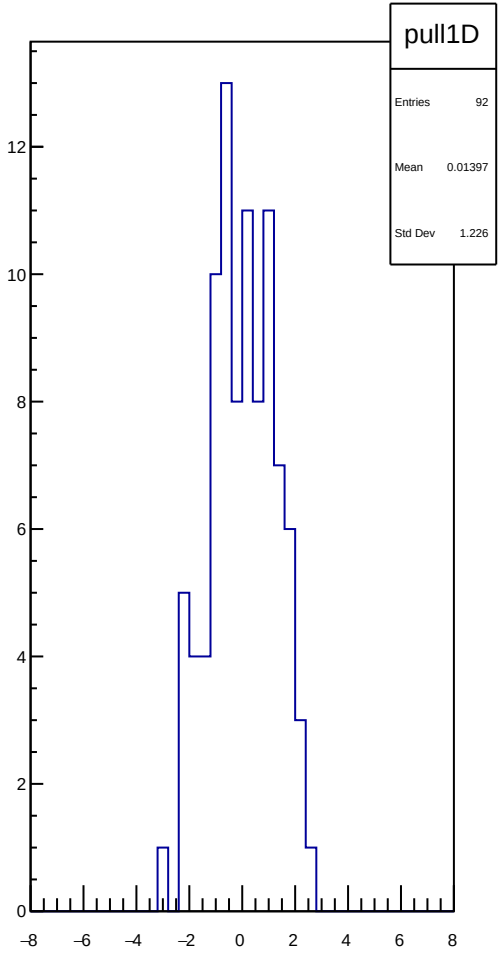

diff_bpm0i01aX_rms vs run
χ² / ndf 1803 / 91
p0 1563 ± 1.172
1700
1600
1500
1400
1300

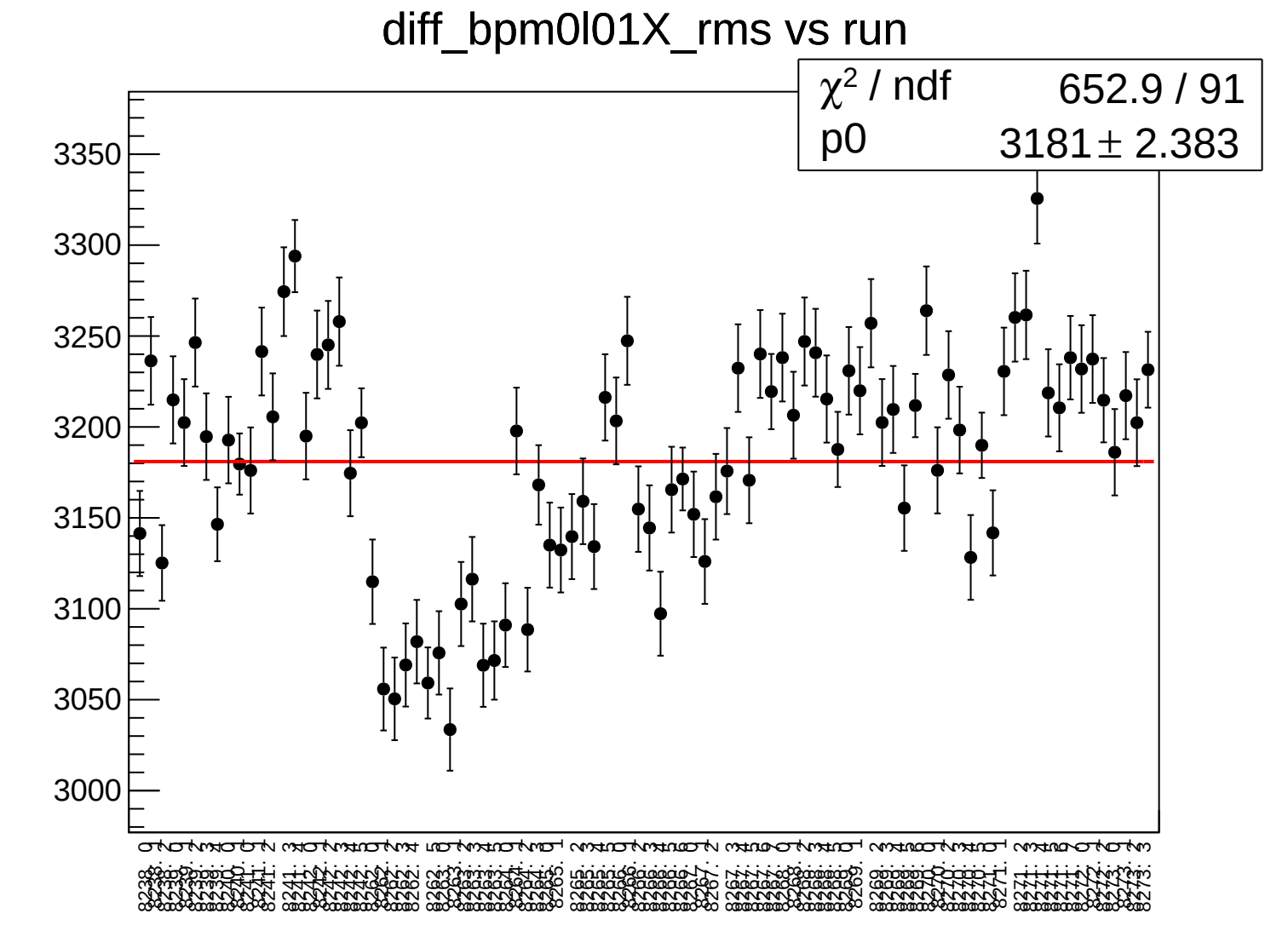

diff_bpm0i01aY_mean vs run
χ² / ndf 131.5 / 91
p0 24.95 ± 1.439
pull
Entries 92
Mean 151.1
Std Dev 0

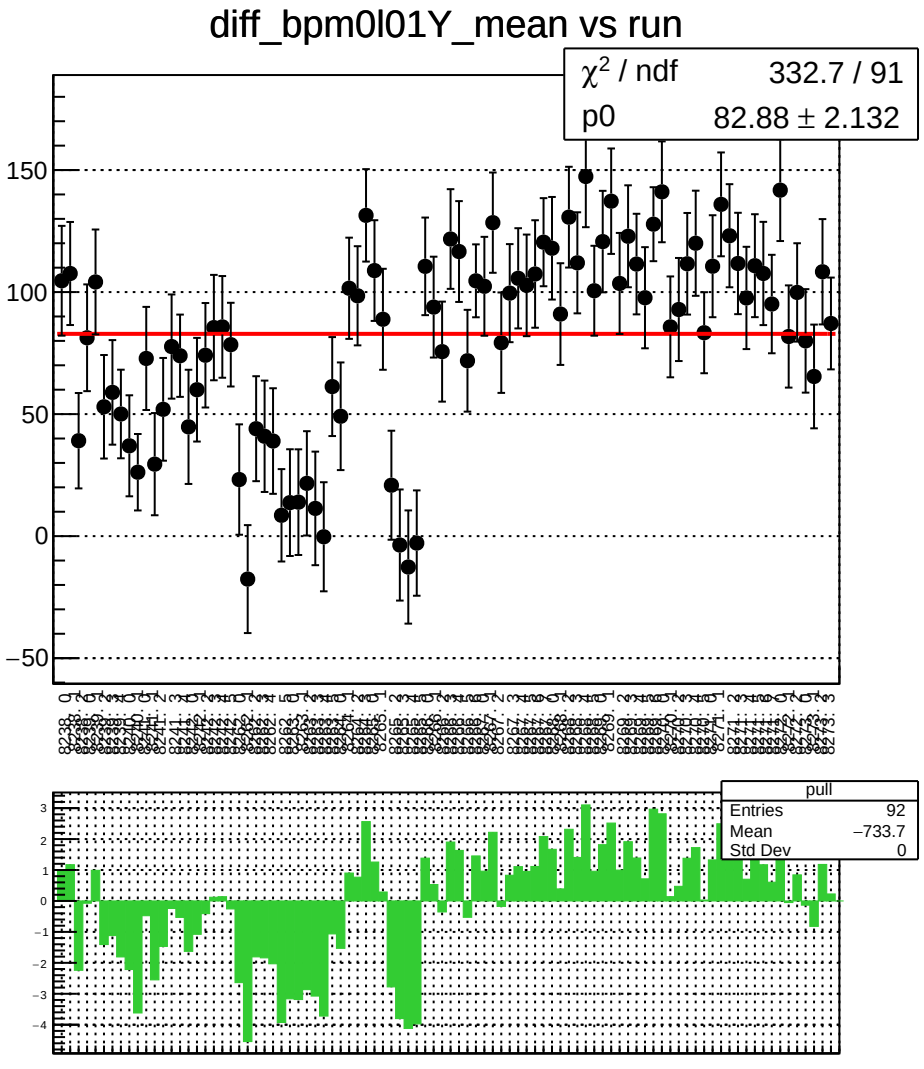

pull1D
Entries 92
Mean 0.009242
Std Dev 1.195

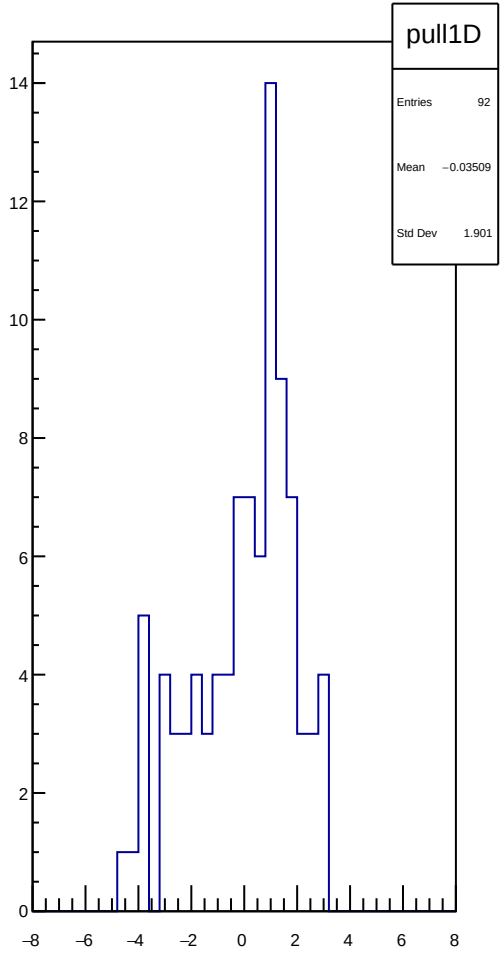

diff_bpm0i01aY_rms vs run
χ² / ndf 664.1 / 91
p0 1358 ± 1.017
1400
1350
1300
1250
1200

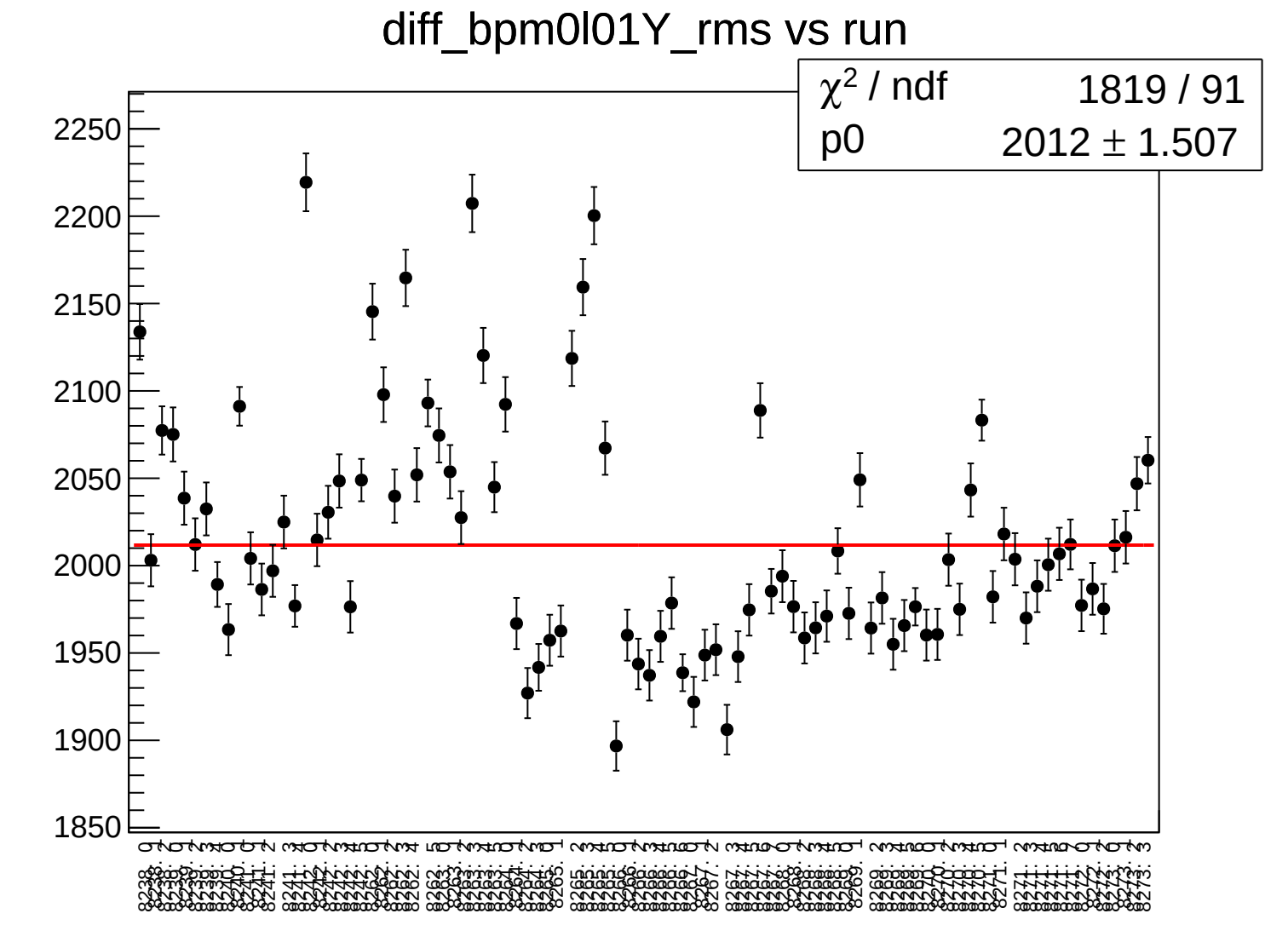

diff_bpm0l01X_mean vs run
χ² / ndf 138.3 / 91
p0 −43.53 ± 3.37
50
0
−50
−100
−150
pull
Entries 92
Mean −128.7
Std Dev 0
2
1
0
−1
−2
−3

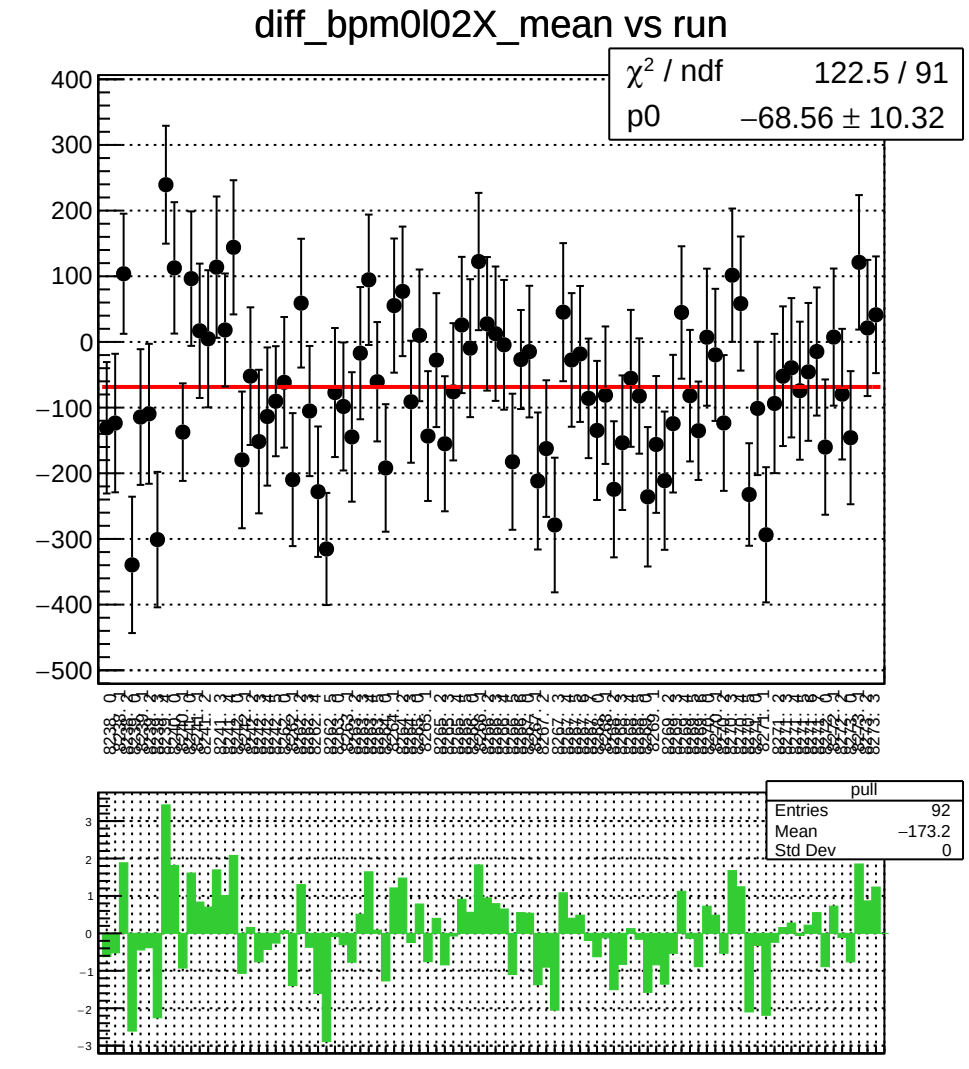

pull1D
Entries 92
Mean 0.01397
Std Dev 1.226
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

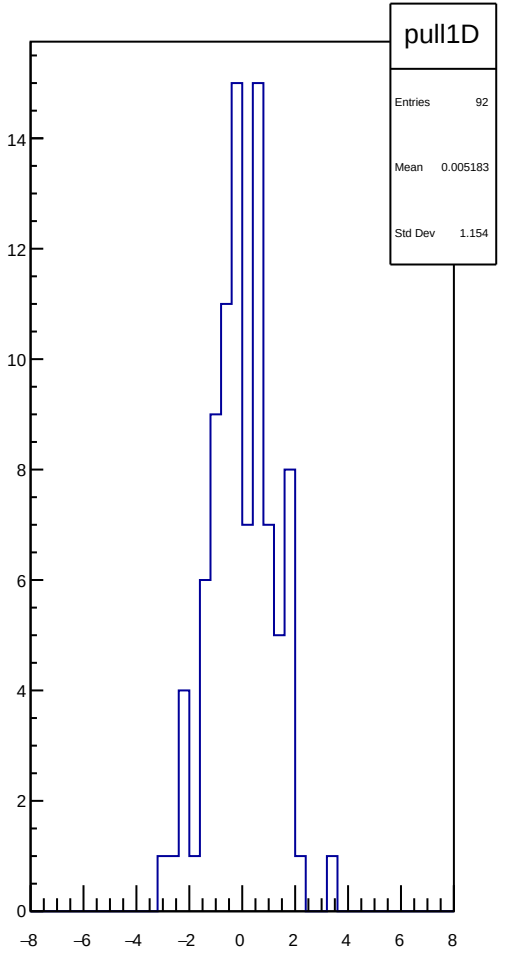

diff_bpm0l01X_rms vs run
χ² / ndf 652.9 / 91
p0 3181 ± 2.383
3350
3300
3250
3200
3150
3100
3050
3000

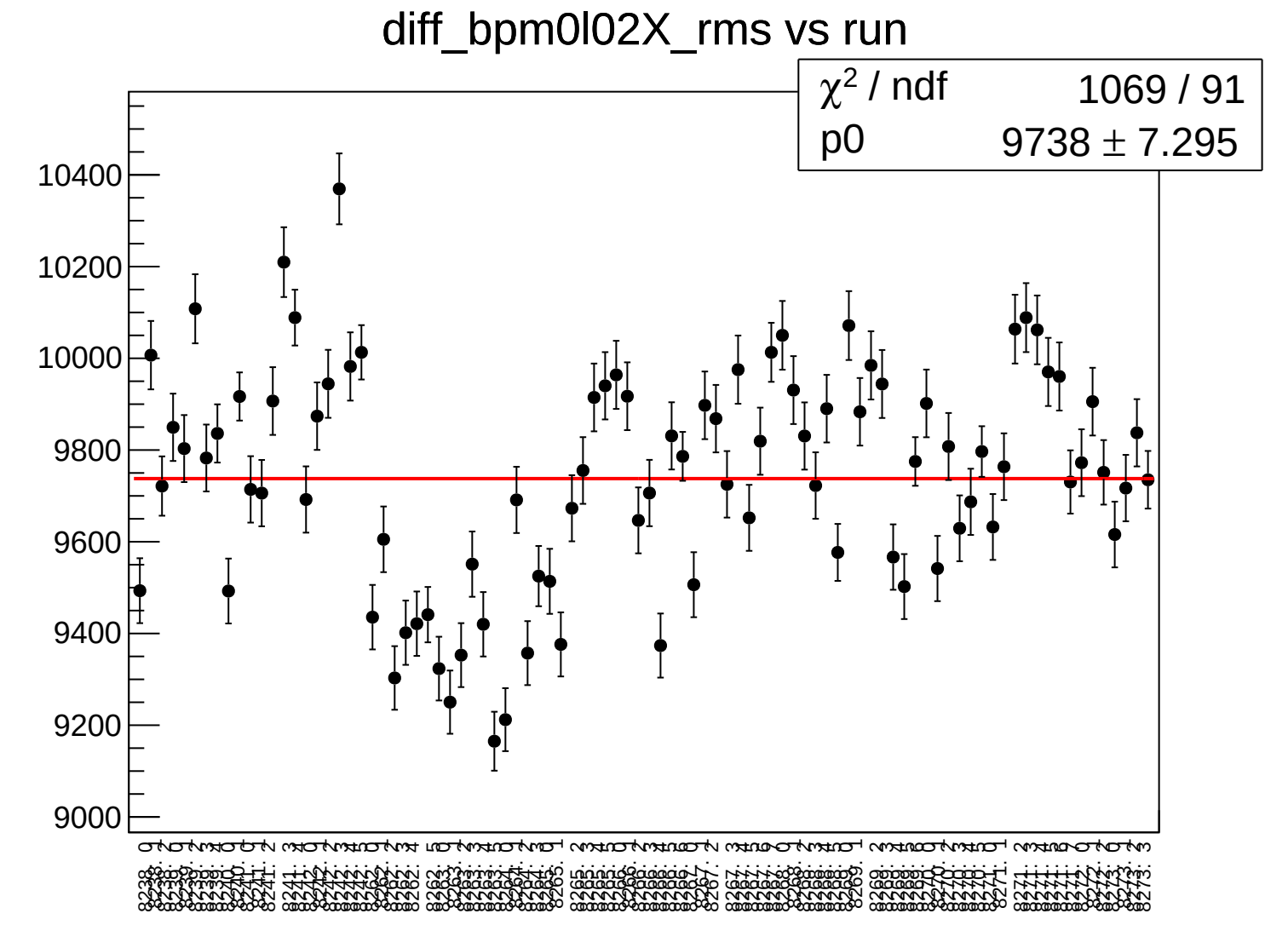

diff_bpm0l01Y_mean vs run
χ² / ndf 332.7 / 91
p0 82.88 ± 2.132
150
100
50
0
−50
pull
Entries 92
Mean −733.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4

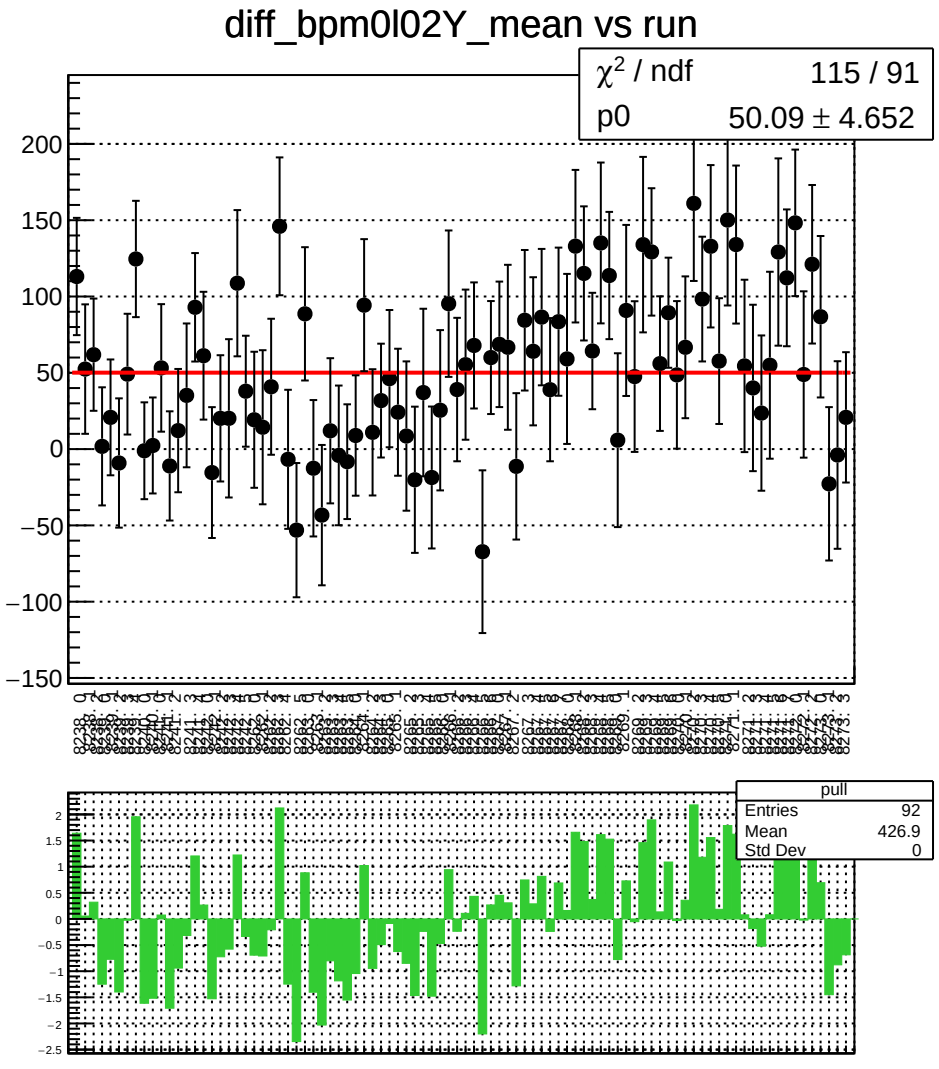

pull1D
Entries 92
Mean −0.03509
Std Dev 1.901
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

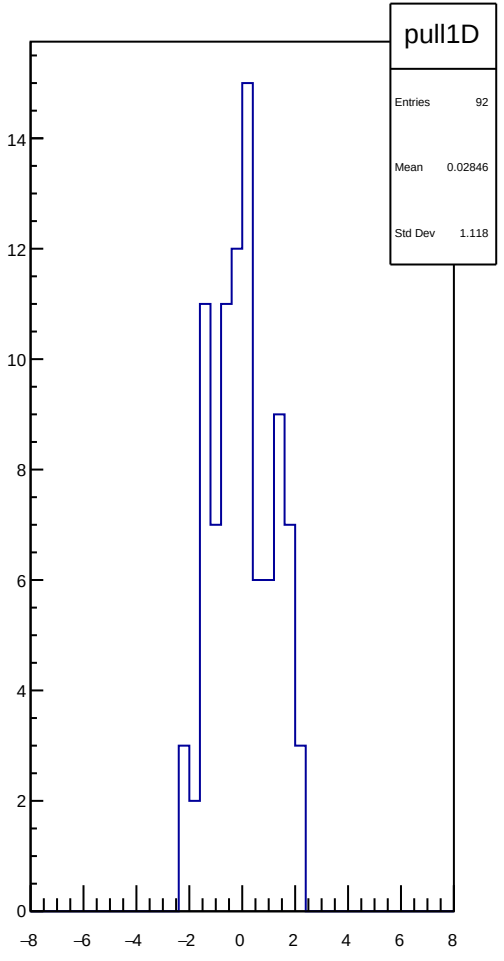

diff_bpm0l01Y_rms vs run
χ² / ndf 1819 / 91
p0 2012 ± 1.507
2250
2200
2150
2100
2050
2000
1950
1900
1850

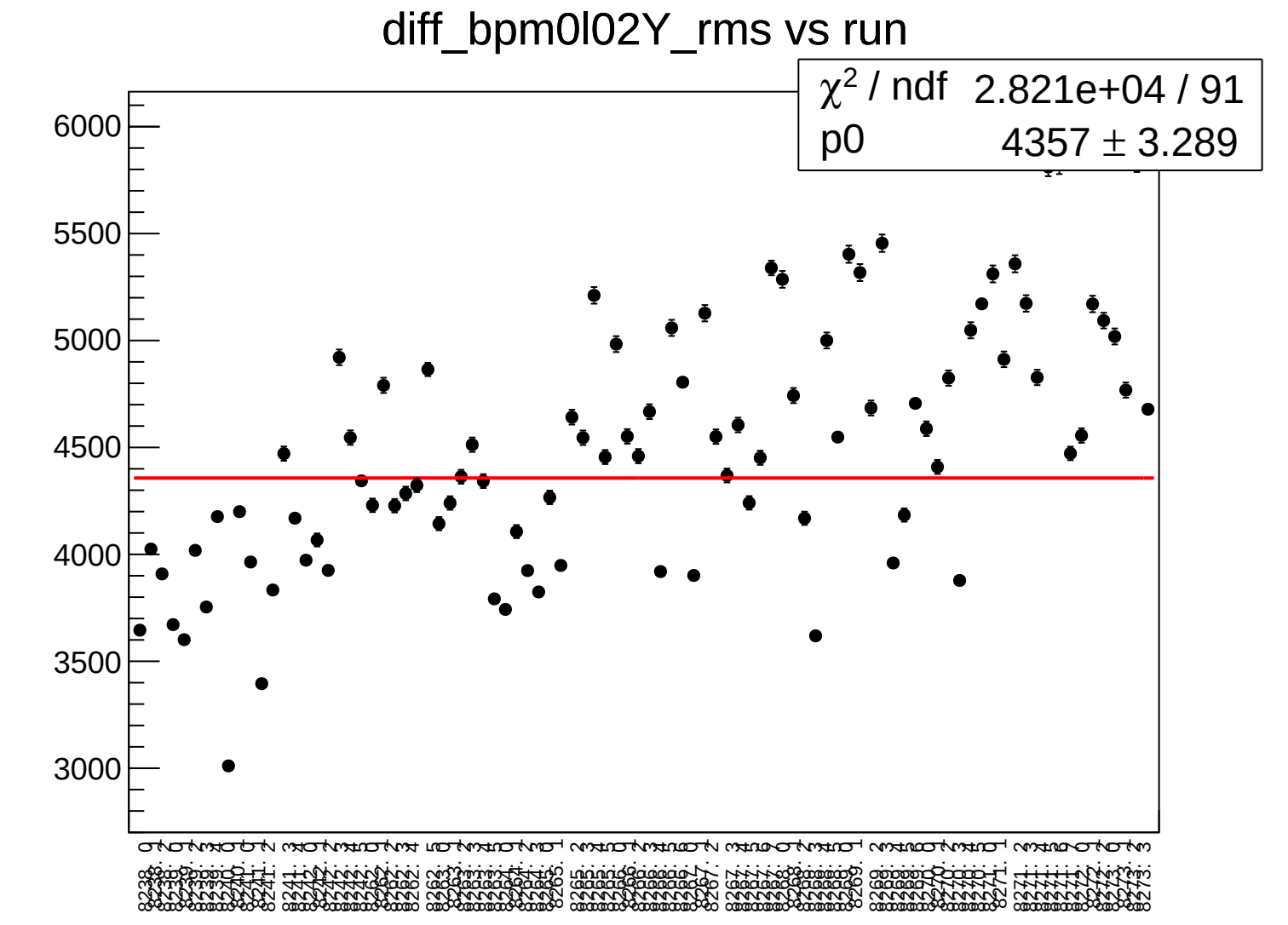

diff_bpm0l02X_mean vs run
χ² / ndf 122.5 / 91
p0 −68.56 ± 10.32
pull
Entries 92
Mean −173.2
Std Dev 0

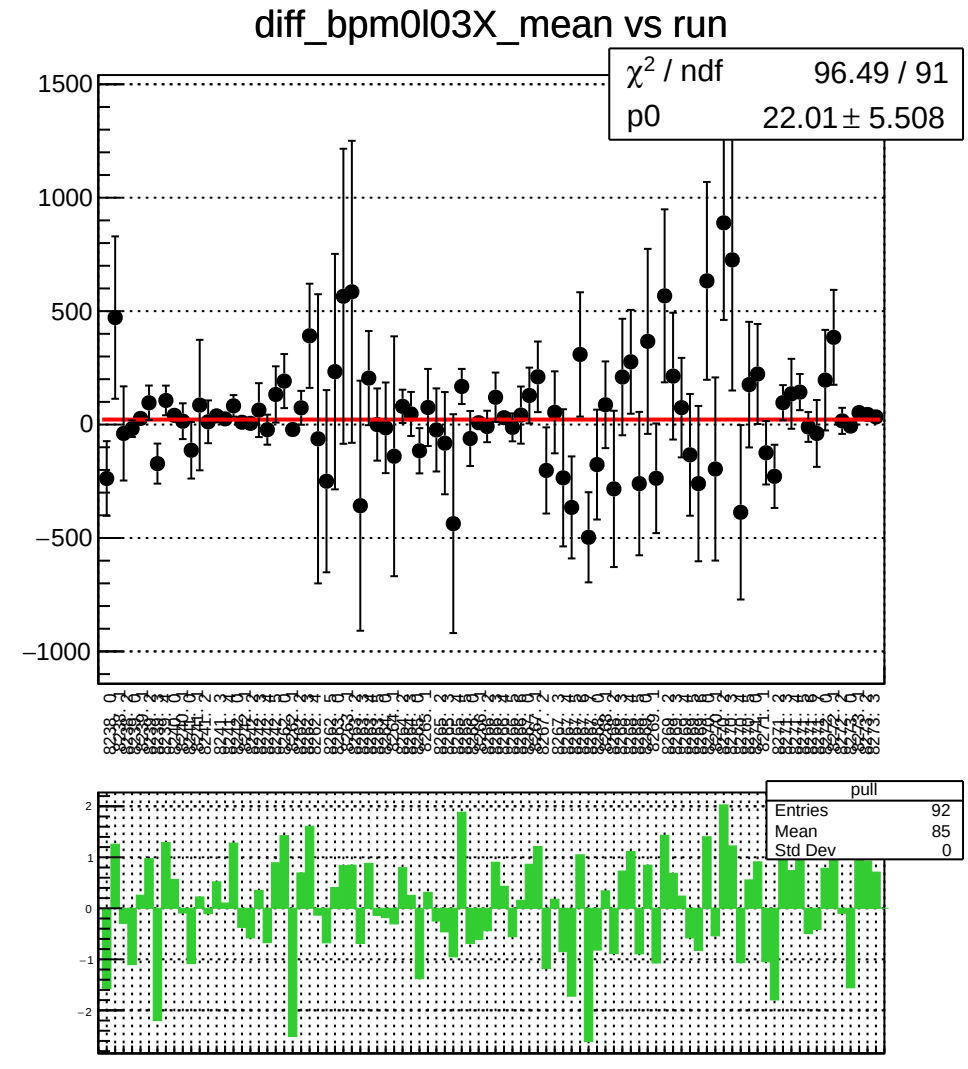

pull1D
Entries 92
Mean 0.005183
Std Dev 1.154

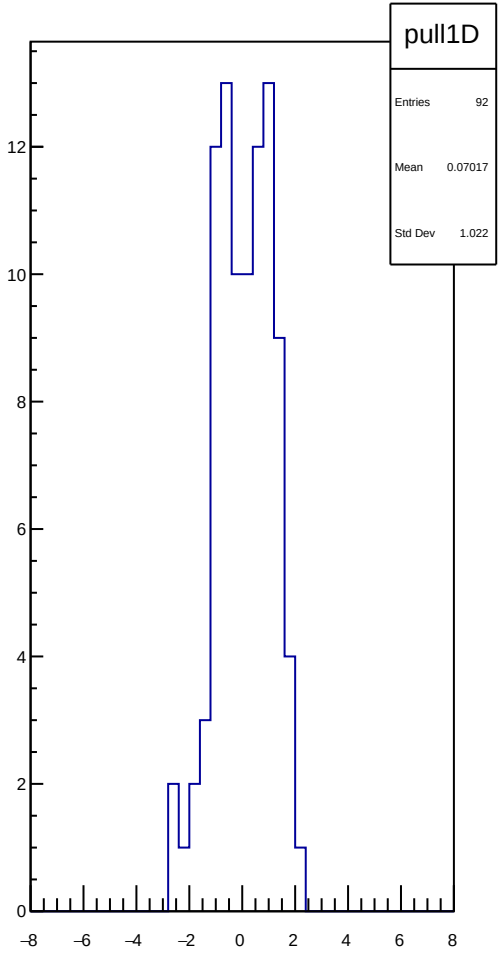

diff_bpm0l02X_rms vs run
χ² / ndf 1069 / 91
p0 9738 ± 7.295
10400
10200
10000
9800
9600
9400
9200
9000

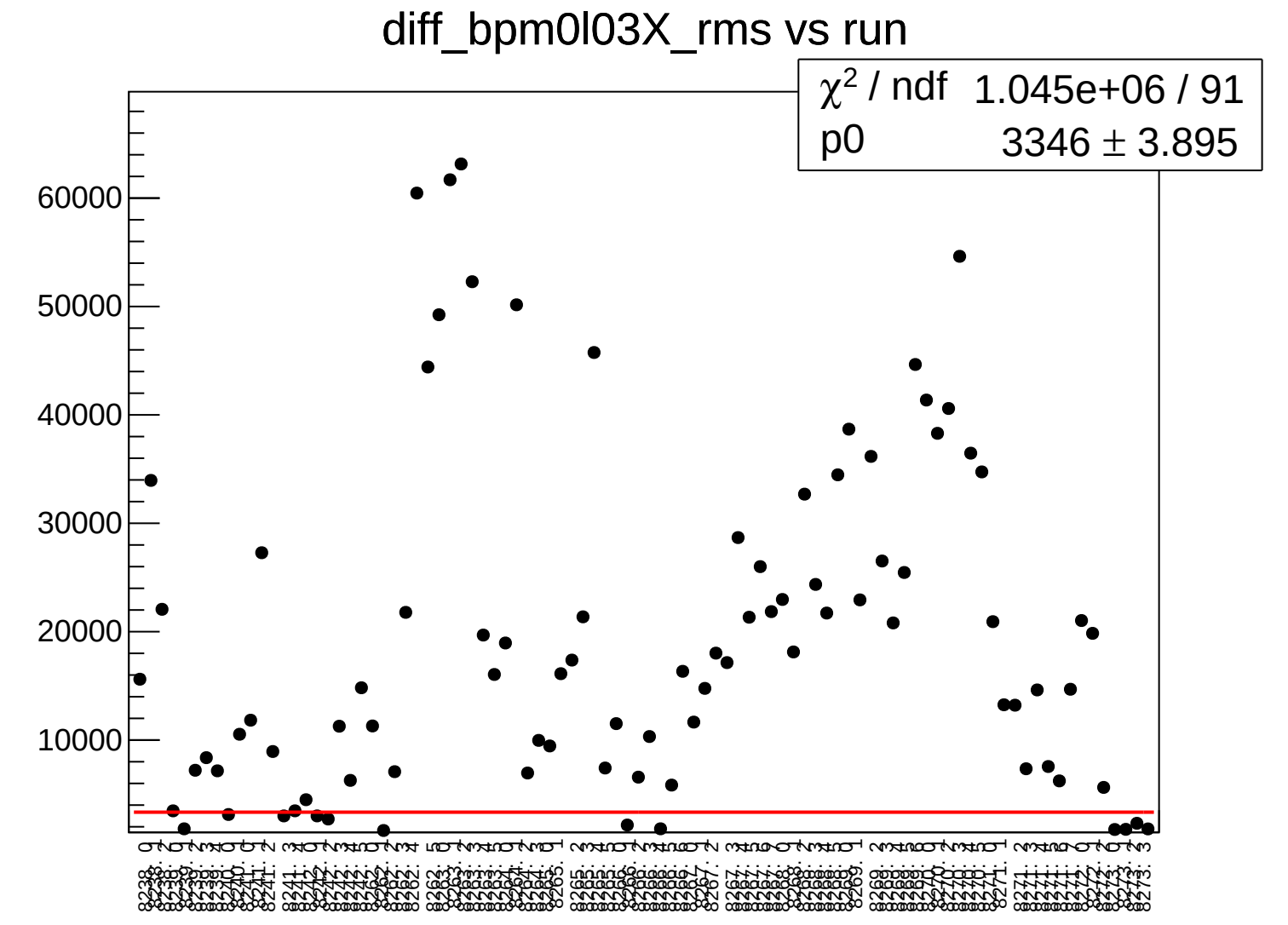

diff_bpm0l02Y_mean vs run
χ² / ndf 115 / 91
p0 50.09 ± 4.652
pull
Entries 92
Mean 426.9
Std Dev 0

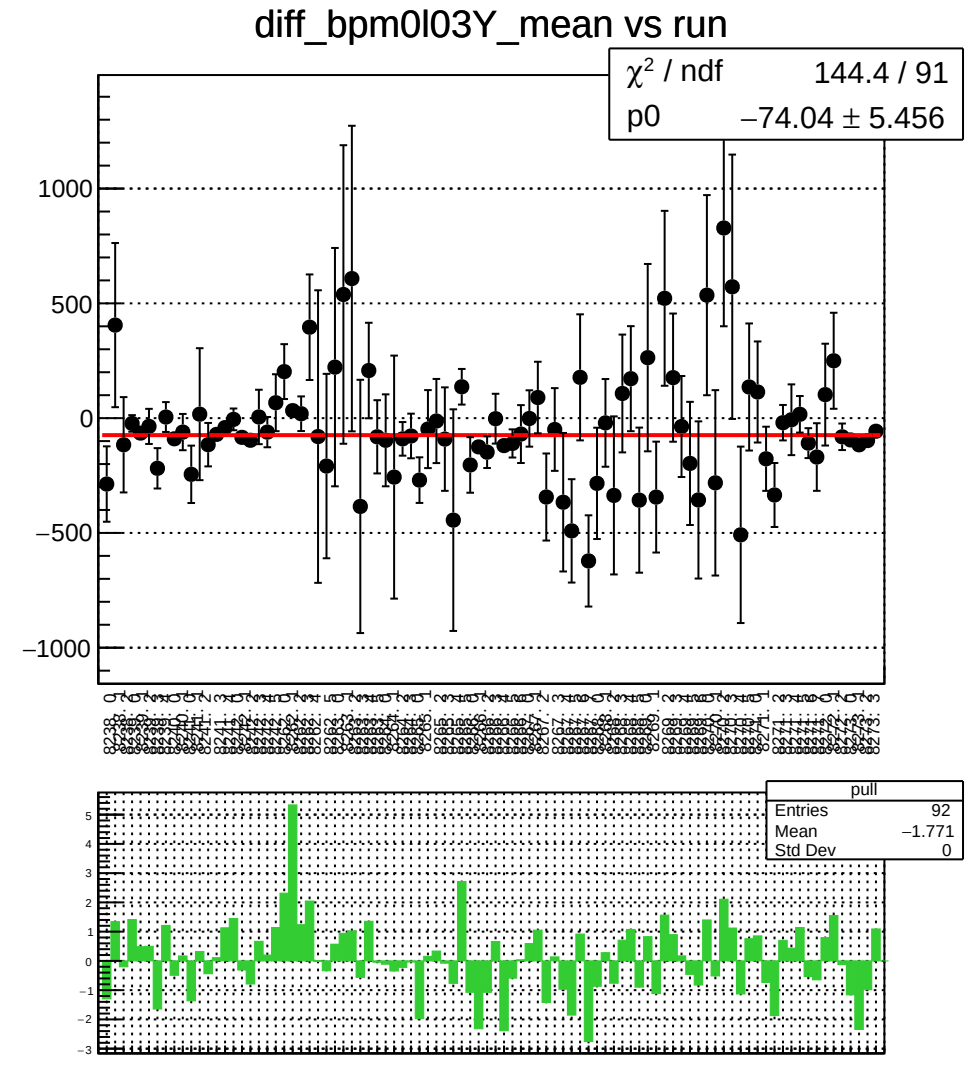

pull1D
Entries 92
Mean 0.02846
Std Dev 1.118

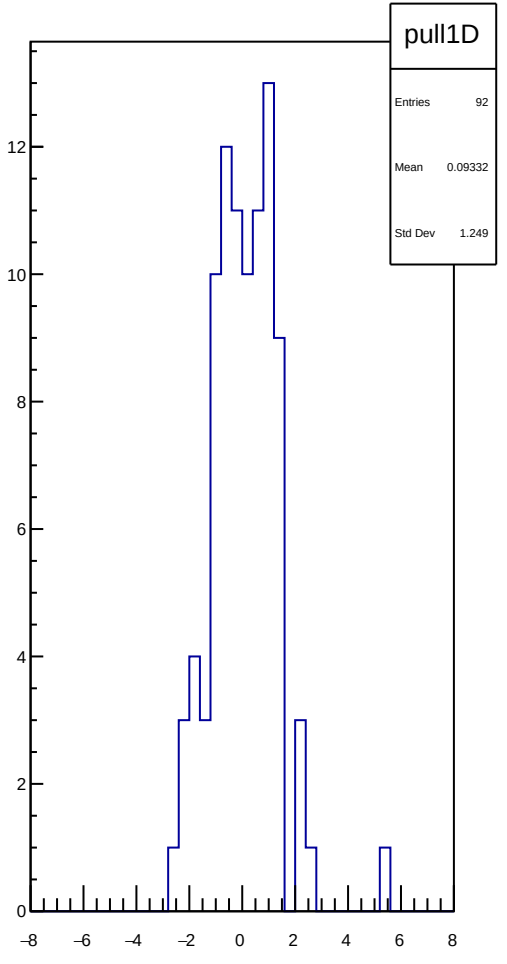

diff_bpm0l02Y_rms vs run
χ² / ndf 2.821e+04 / 91
p0 4357 ± 3.289
6000
5500
5000
4500
4000
3500
3000

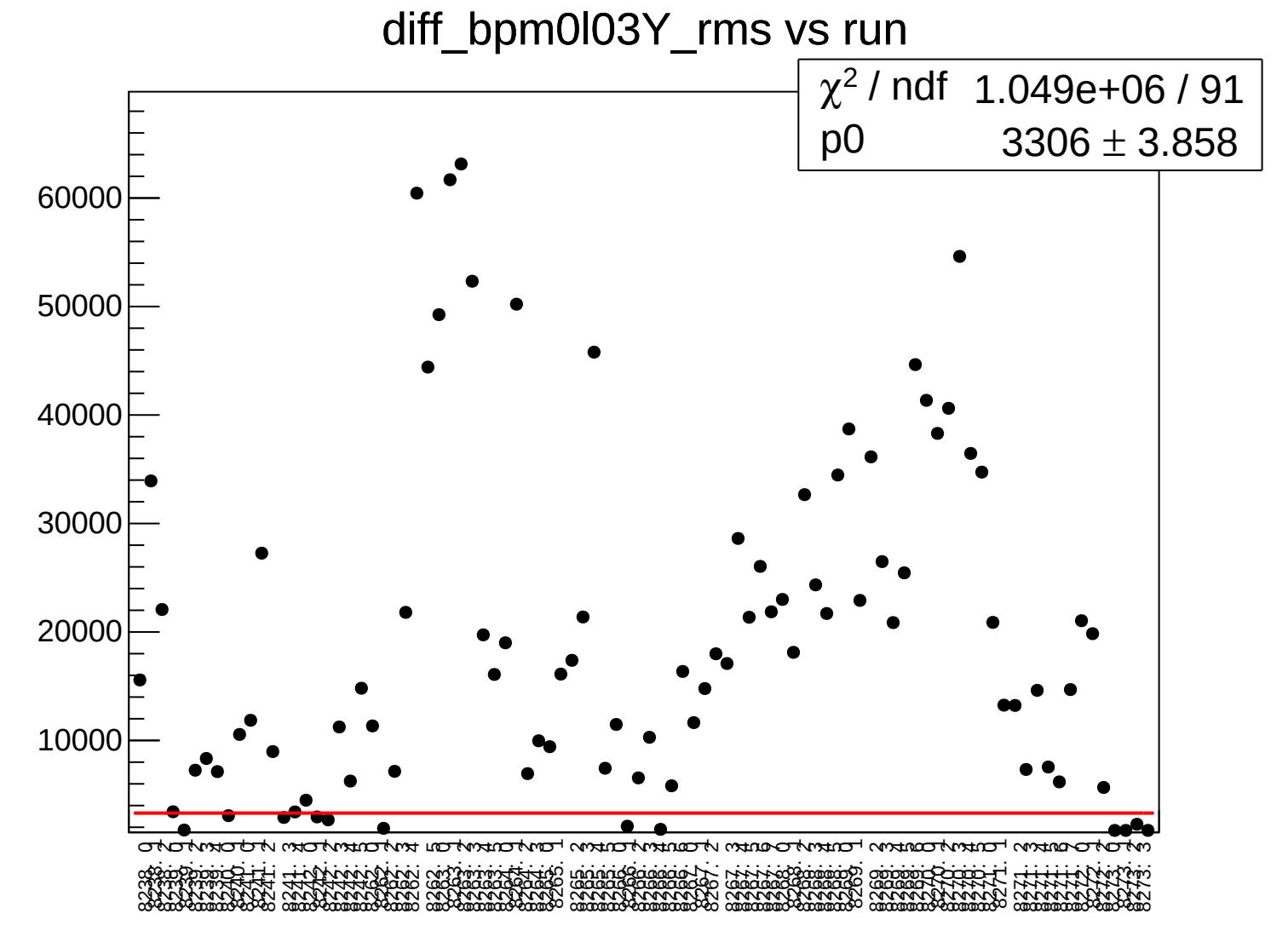

diff_bpm0l03X_mean vs run
χ² / ndf 96.49 / 91
p0 22.01 ± 5.508
1500
1000
500
0
−500
−1000
pull
Entries 92
Mean 85
Std Dev 0
2
1
0
−1
−2

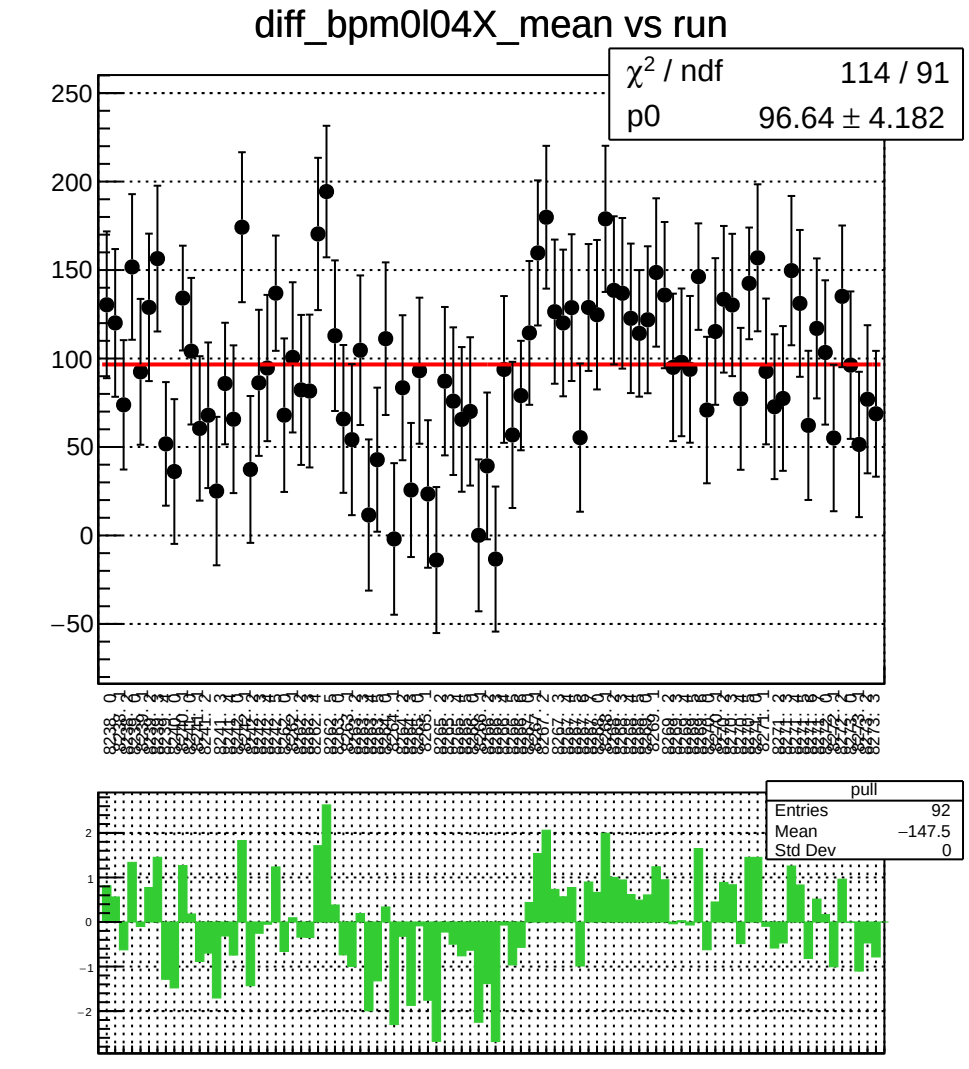

pull1D
Entries 92
Mean 0.07017
Std Dev 1.022
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

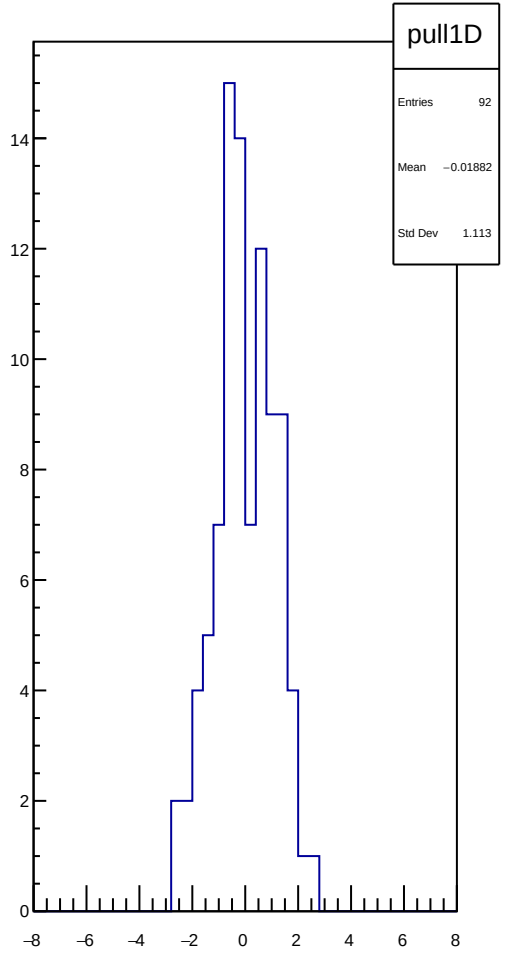

diff_bpm0l03X_rms vs run
$\chi^2$ / ndf 1.045e+06 / 91
p0 3346 ± 3.895
60000
50000
40000
30000
20000
10000

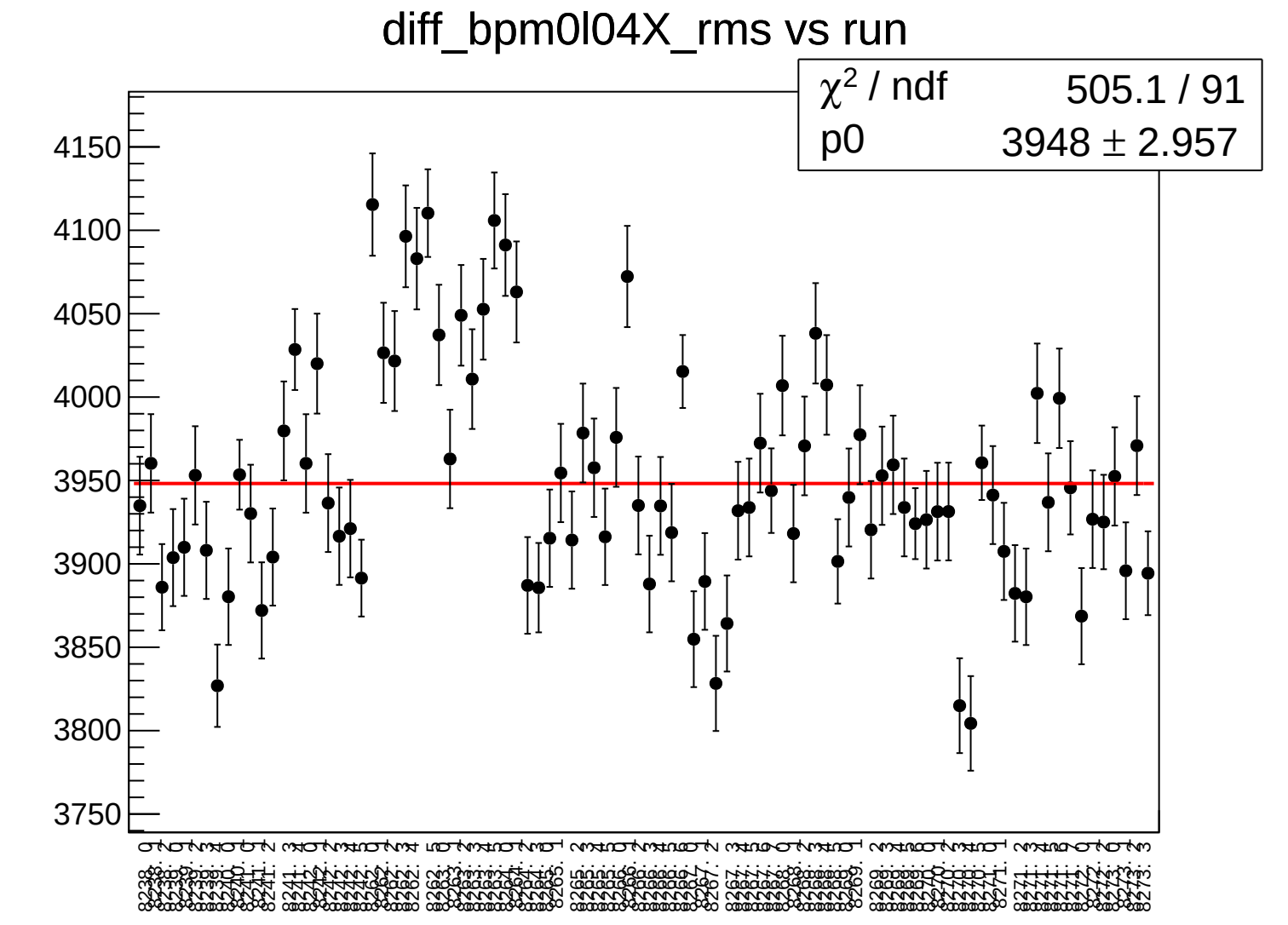

diff_bpm0l03Y_mean vs run
χ² / ndf 144.4 / 91
p0 −74.04 ± 5.456
1000
500
0
−500
−1000
pull
Entries 92
Mean −1.771
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

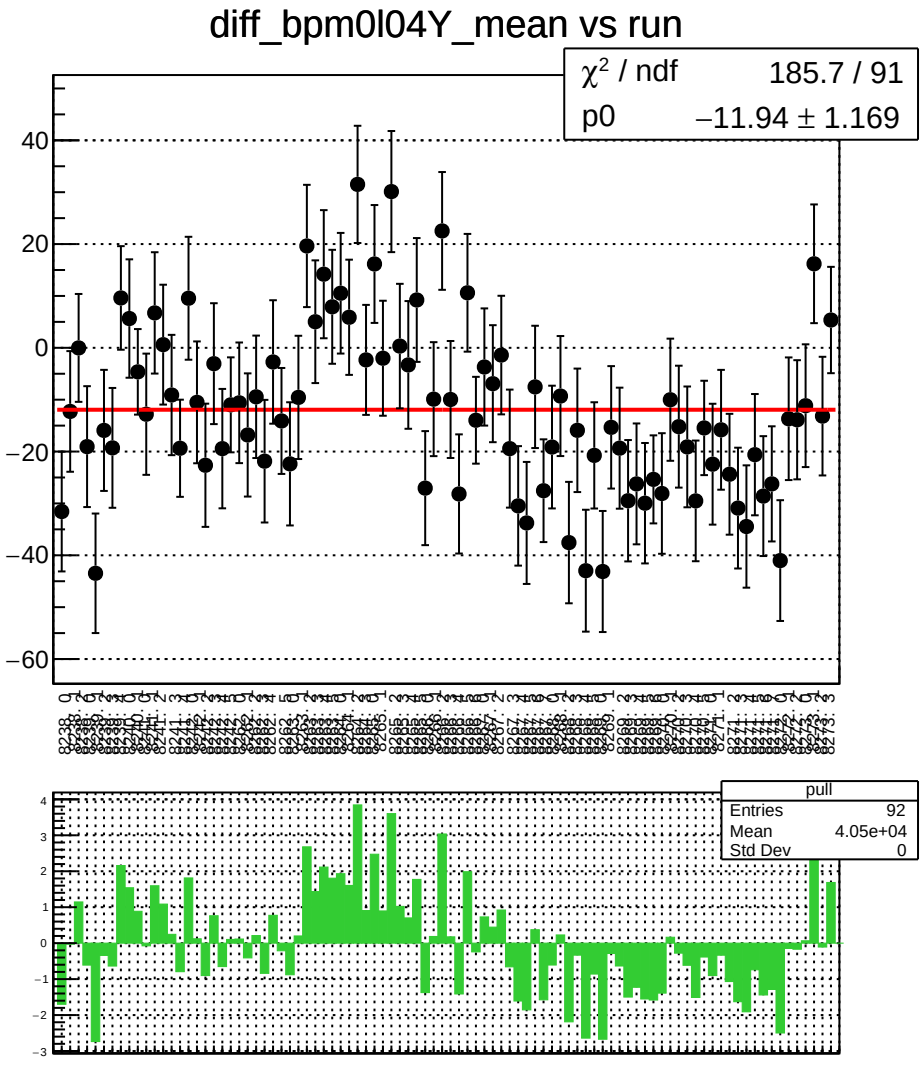

pull1D
Entries 92
Mean 0.09332
Std Dev 1.249
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

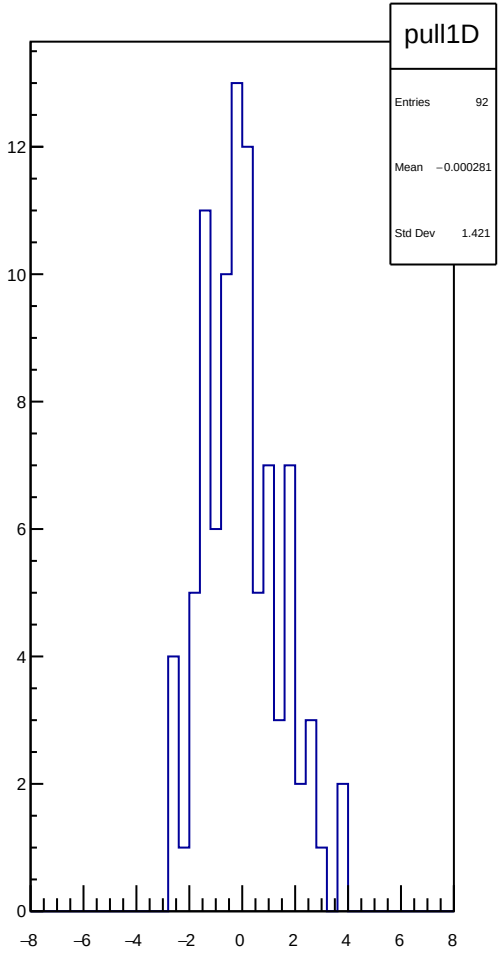

diff_bpm0l03Y_rms vs run
χ² / ndf 1.049e+06 / 91
p0 3306 ± 3.858
60000
50000
40000
30000
20000
10000

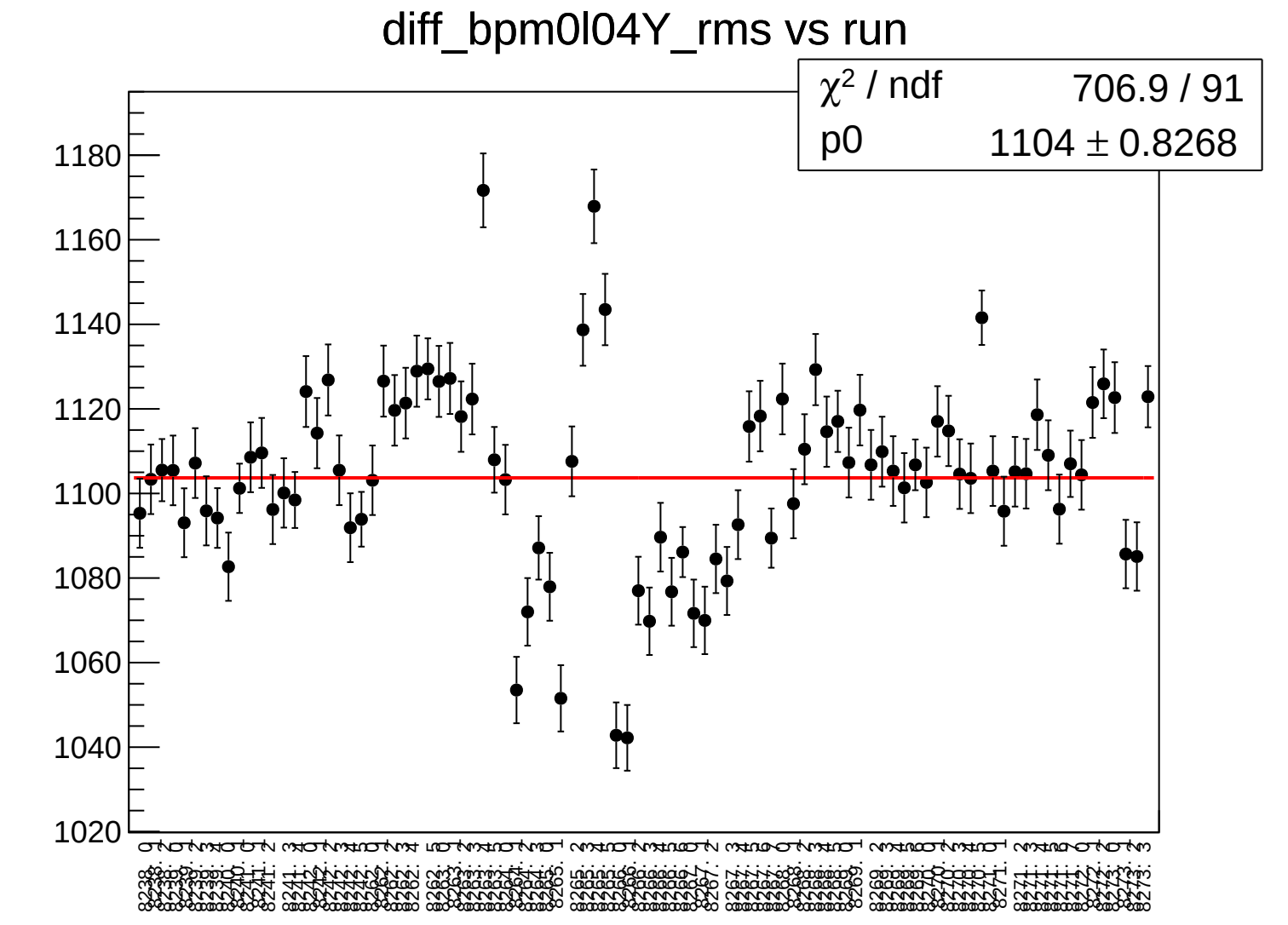

diff_bpm0l04X_mean vs run
χ² / ndf 114 / 91
p0 96.64 ± 4.182
250
200
150
100
50
0
−50
pull
Entries 92
Mean −147.5
Std Dev 0
2
1
0
−1
−2

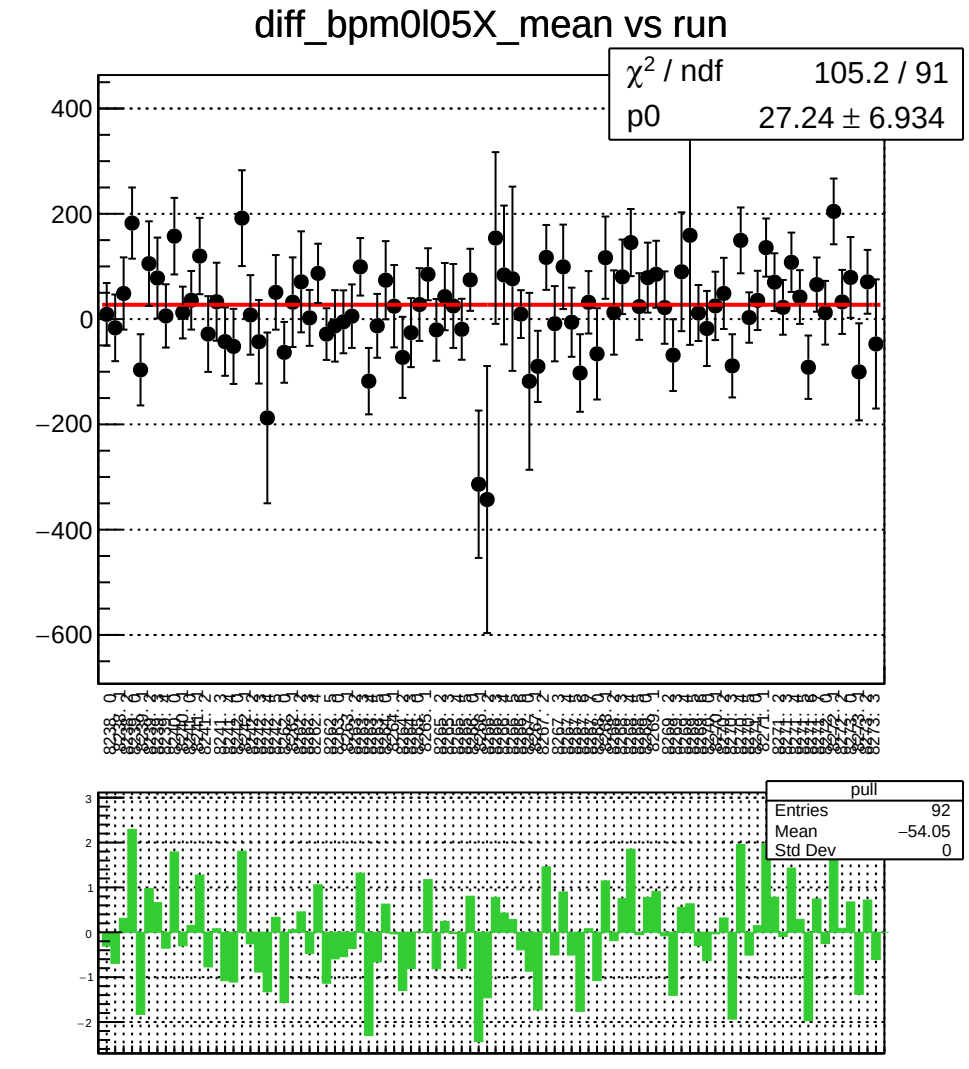

pull1D
Entries 92
Mean −0.01882
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

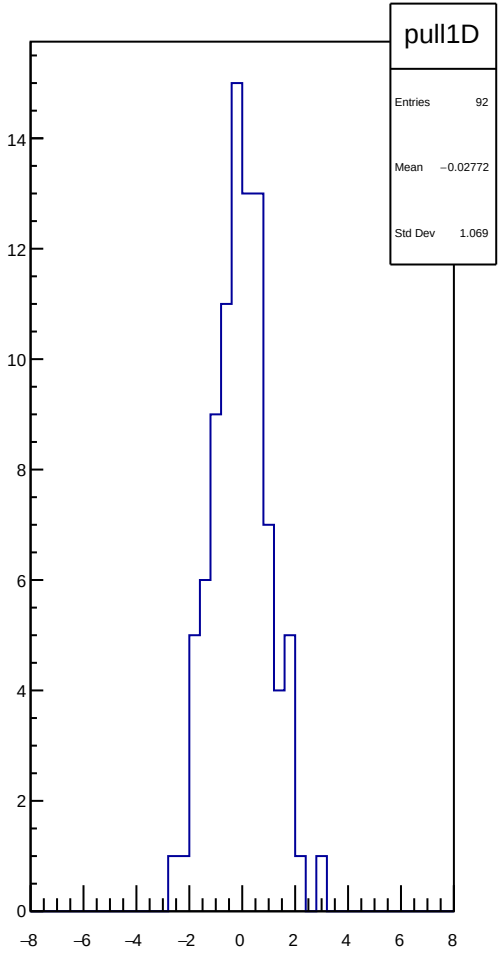

diff_bpm0l04X_rms vs run
χ² / ndf 505.1 / 91
p0 3948 ± 2.957
4150
4100
4050
4000
3950
3900
3850
3800
3750

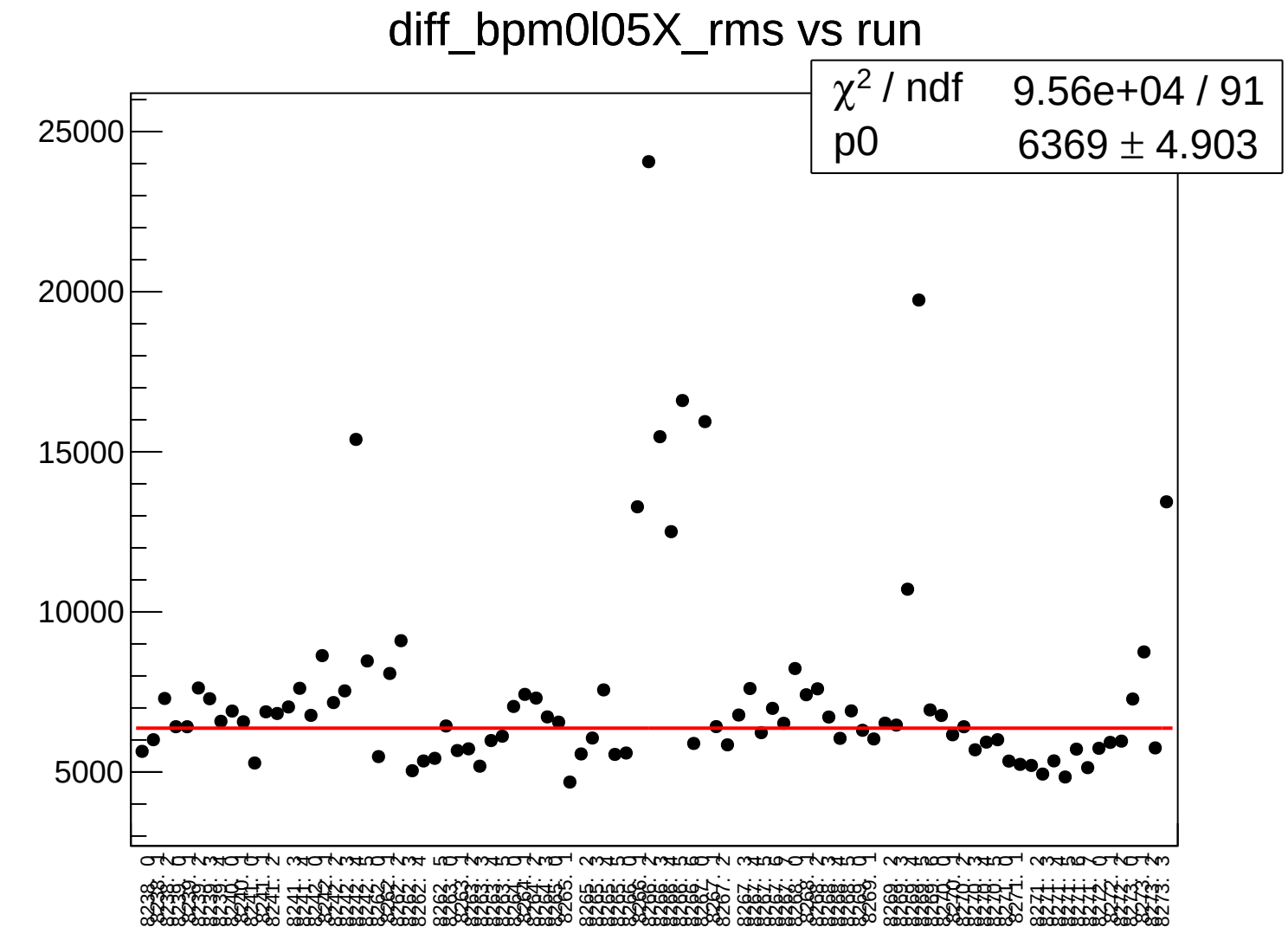

diff_bpm0l04Y_mean vs run
χ² / ndf 185.7 / 91
p0 −11.94 ± 1.169
pull
Entries 92
Mean 4.05e+04
Std Dev 0

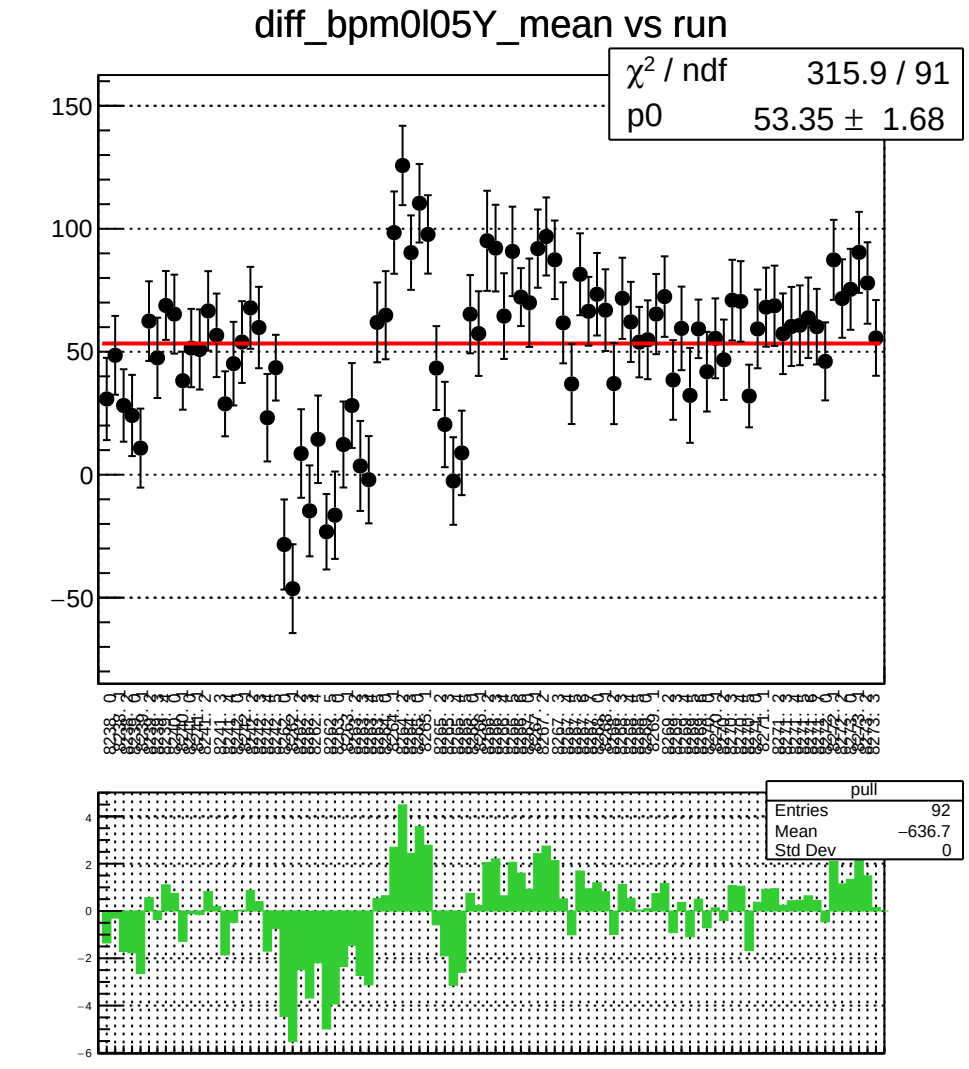

pull1D
Entries 92
Mean −0.000281
Std Dev 1.421

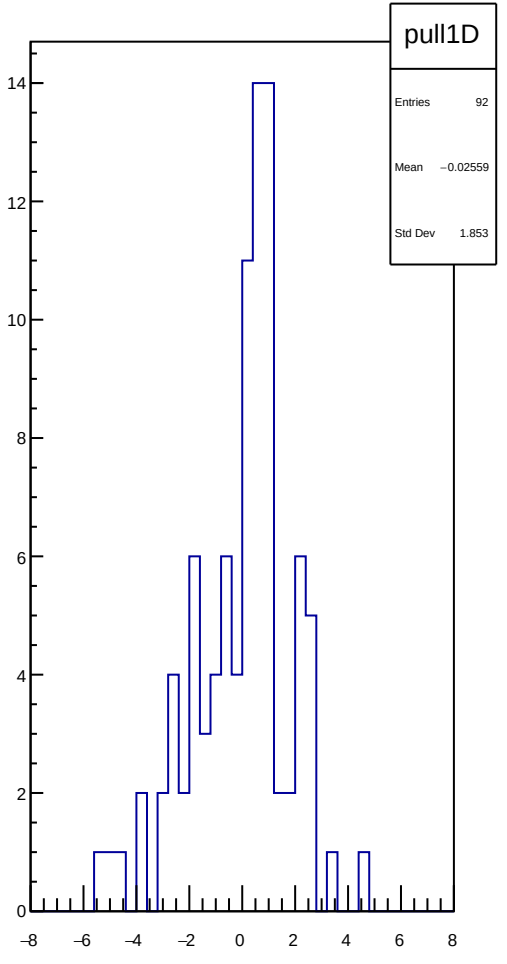

diff_bpm0l04Y_rms vs run
χ² / ndf 706.9 / 91
p0 1104 ± 0.8268
1180
1160
1140
1120
1100
1080
1060
1040
1020

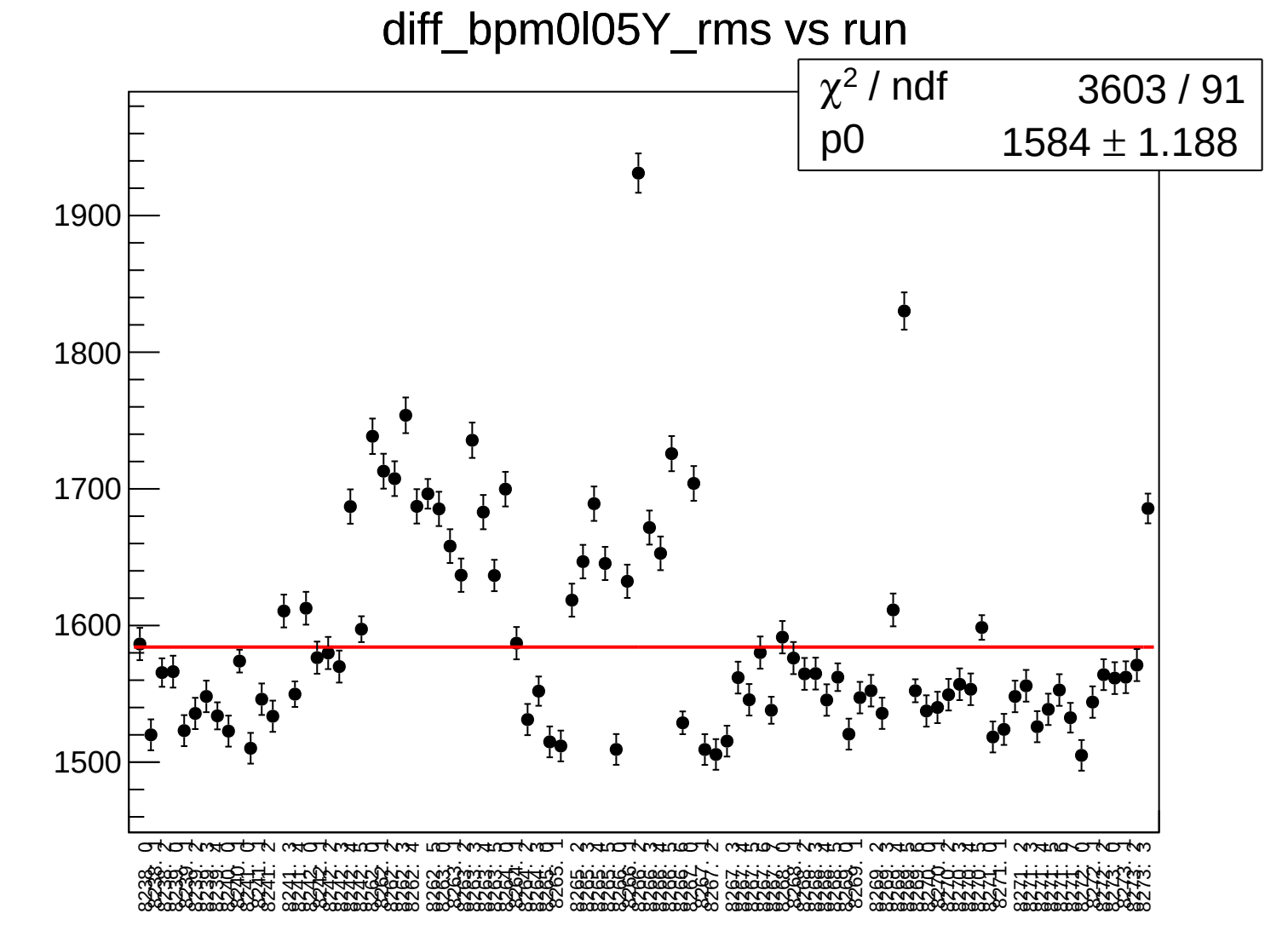

diff_bpm0l05X_mean vs run
$\chi^2$ / ndf 105.2 / 91
p0 27.24 ± 6.934
pull
Entries 92
Mean −54.05
Std Dev 0

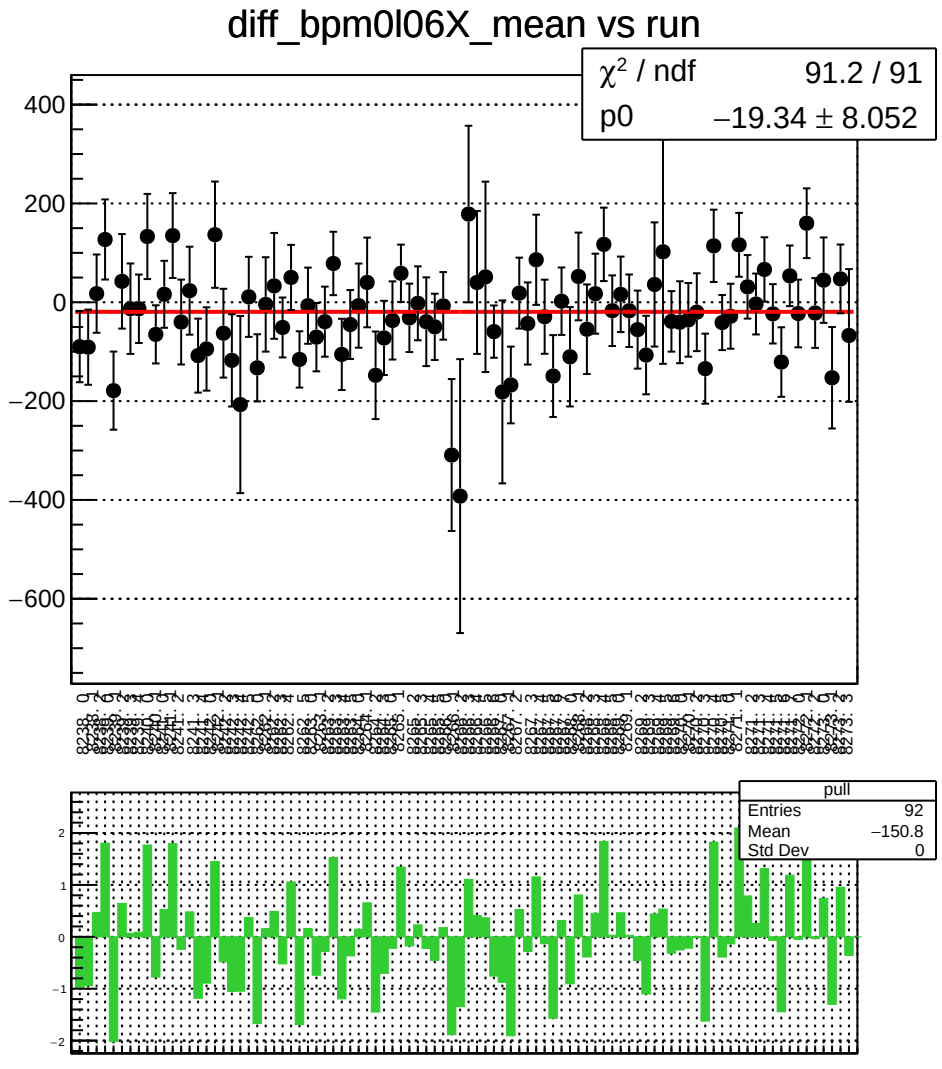

pull1D
Entries 92
Mean −0.02772
Std Dev 1.069

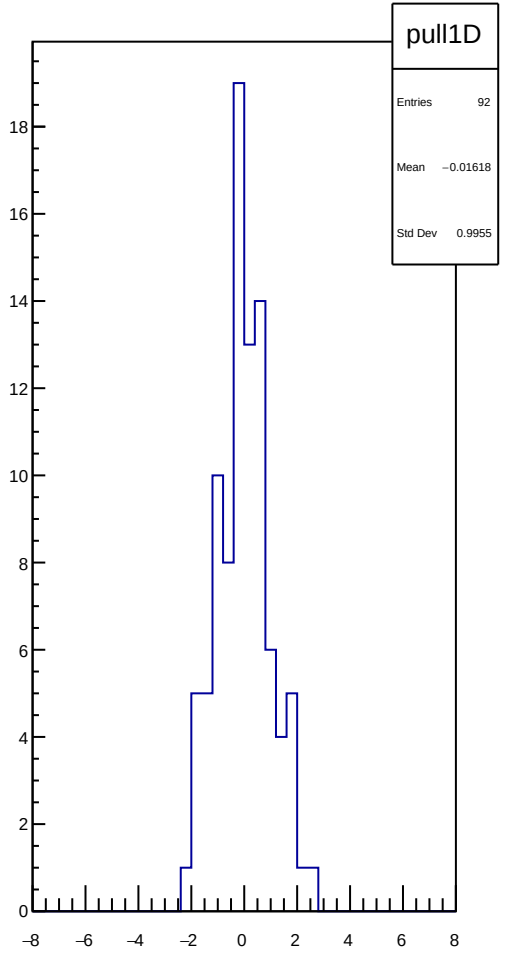

diff_bpm0l05X_rms vs run
χ² / ndf 9.56e+04 / 91
p0 6369 ± 4.903
25000
20000
15000
10000
5000

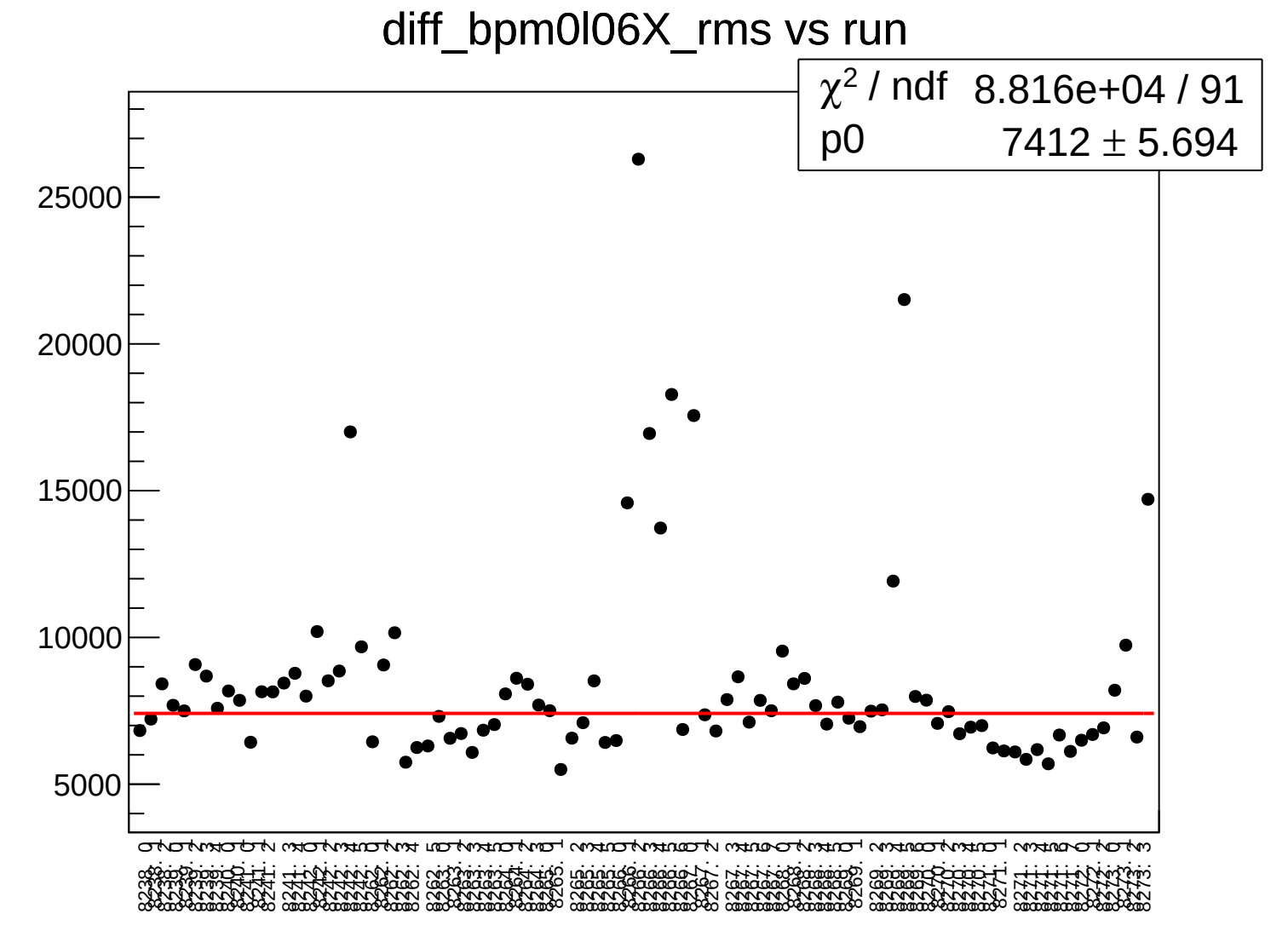

diff_bpm0l05Y_mean vs run
χ² / ndf 315.9 / 91
p0 53.35 ± 1.68
150
100
50
0
−50
pull
Entries 92
Mean −636.7
Std Dev 0
4
2
0
−2
−4
−6

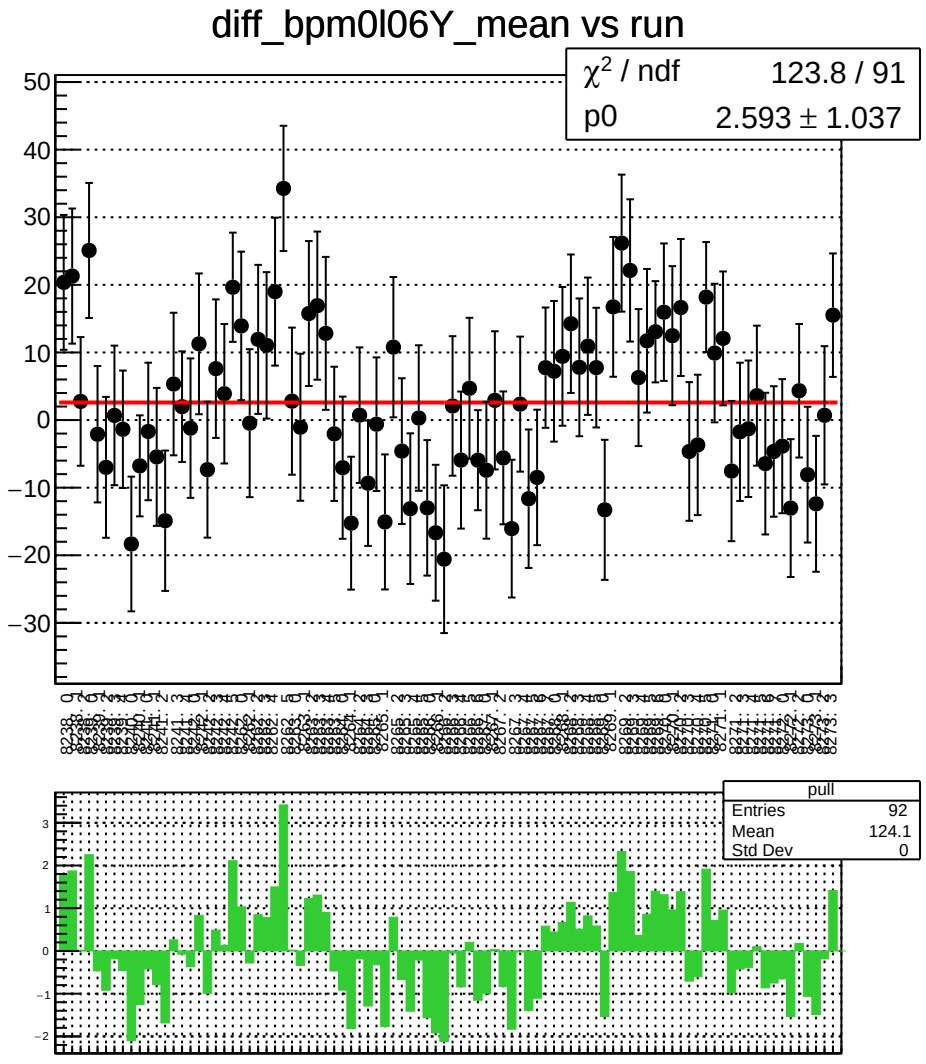

pull1D
Entries 92
Mean −0.02559
Std Dev 1.853
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

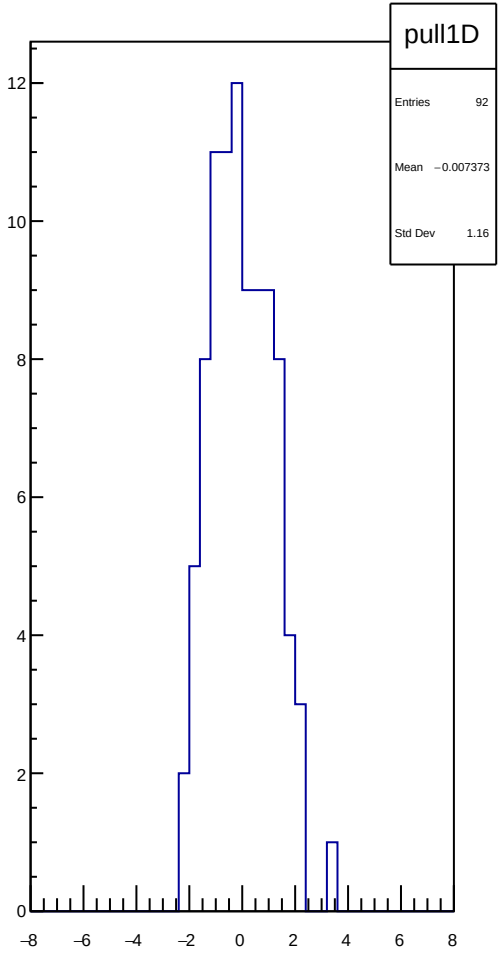

diff_bpm0l05Y_rms vs run
χ² / ndf 3603 / 91
p0 1584 ± 1.188
1900
1800
1700
1600
1500

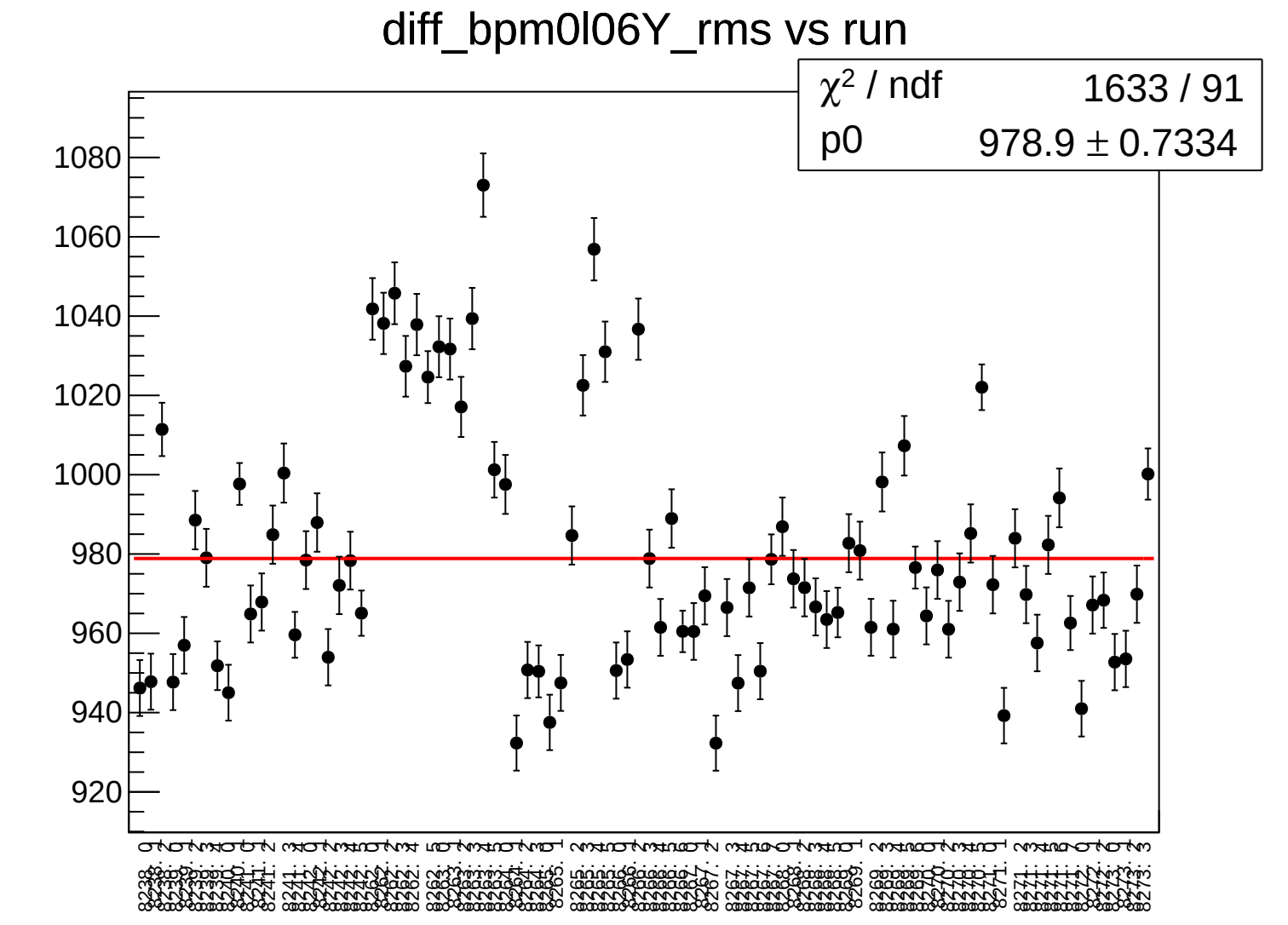

diff_bpm0l06X_mean vs run
χ² / ndf 91.2 / 91
p0 −19.34 ± 8.052
400
200
0
−200
−400
−600
pull
Entries 92
Mean −150.8
Std Dev 0
2
1
0
−1
−2

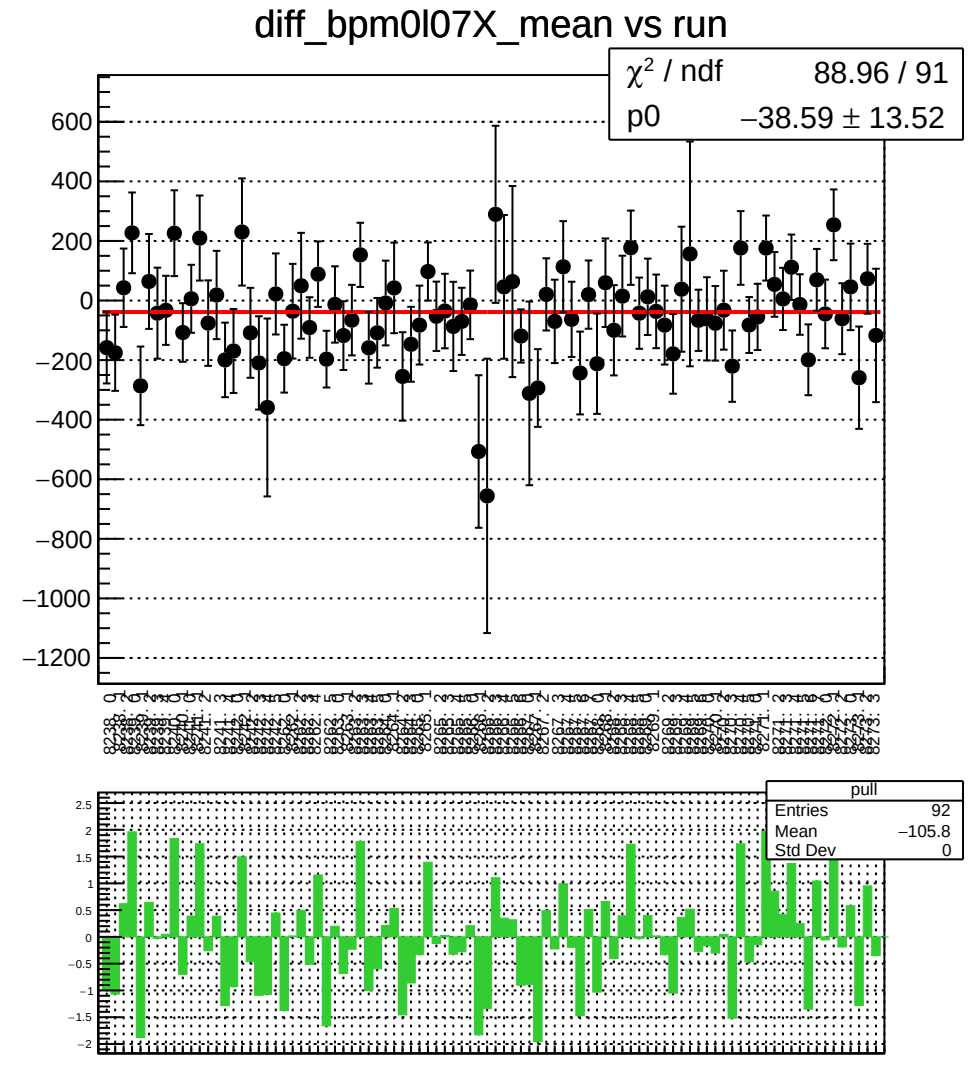

pull1D
Entries 92
Mean −0.01618
Std Dev 0.9955
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

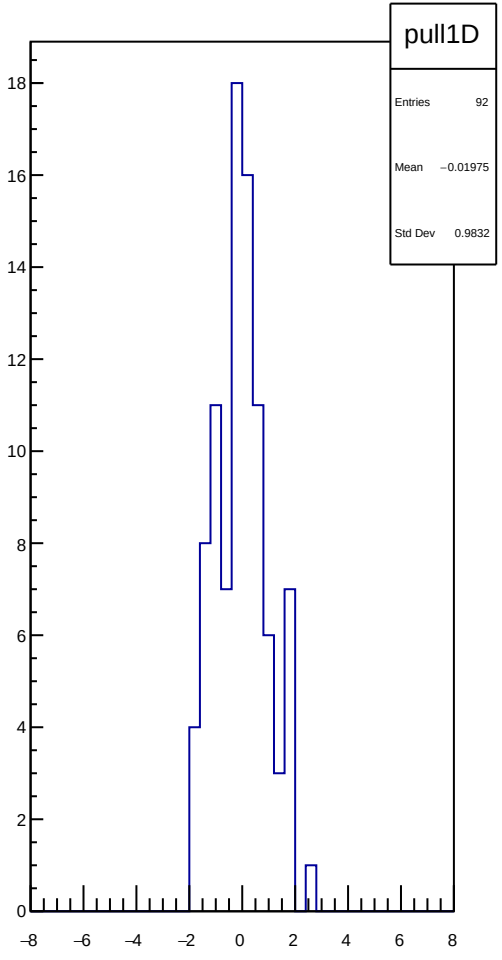

diff_bpm0l06X_rms vs run
χ² / ndf 8.816e+04 / 91
p0 7412 ± 5.694
25000
20000
15000
10000
5000

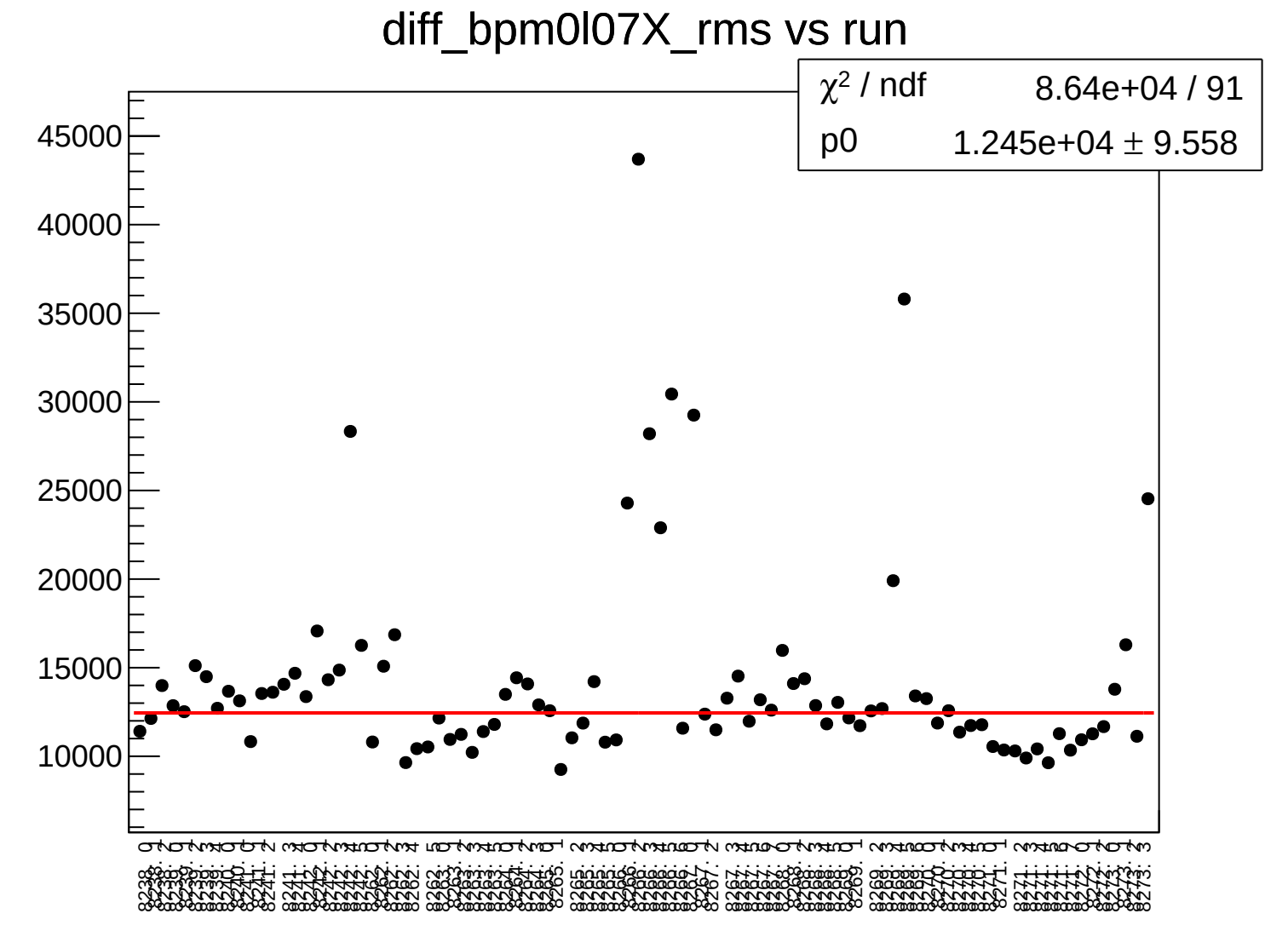

diff_bpm0l06Y_mean vs run
χ² / ndf 123.8 / 91
p0 2.593 ± 1.037
pull
Entries 92
Mean 124.1
Std Dev 0

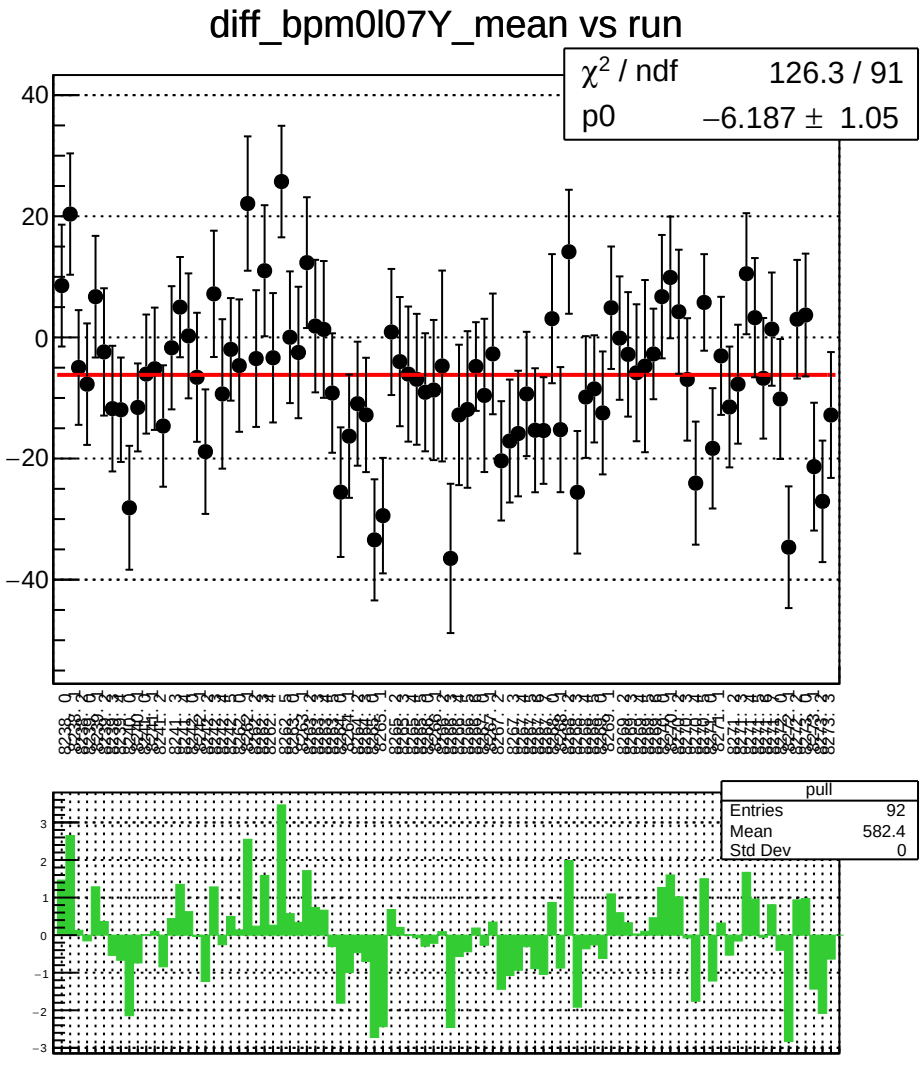

pull1D
Entries 92
Mean −0.007373
Std Dev 1.16

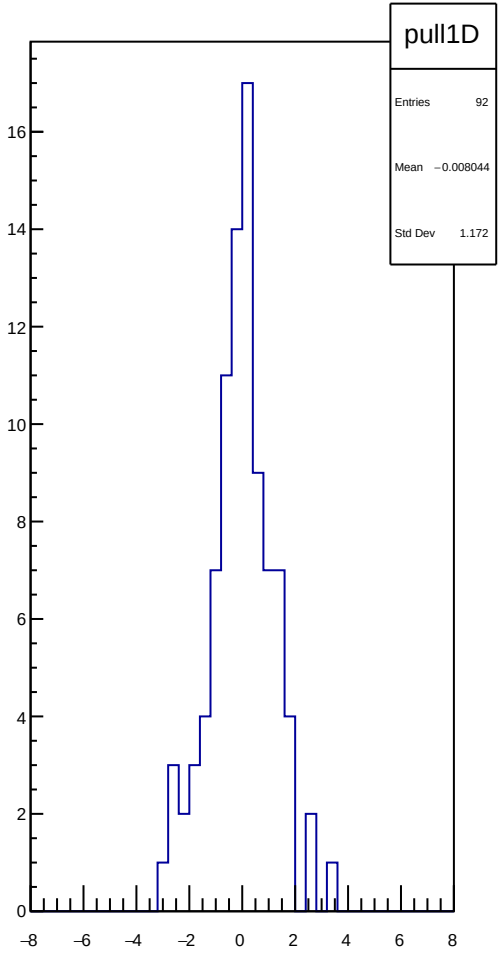

diff_bpm0l06Y_rms vs run
χ² / ndf 1633 / 91
p0 978.9 ± 0.7334
1080
1060
1040
1020
1000
980
960
940
920

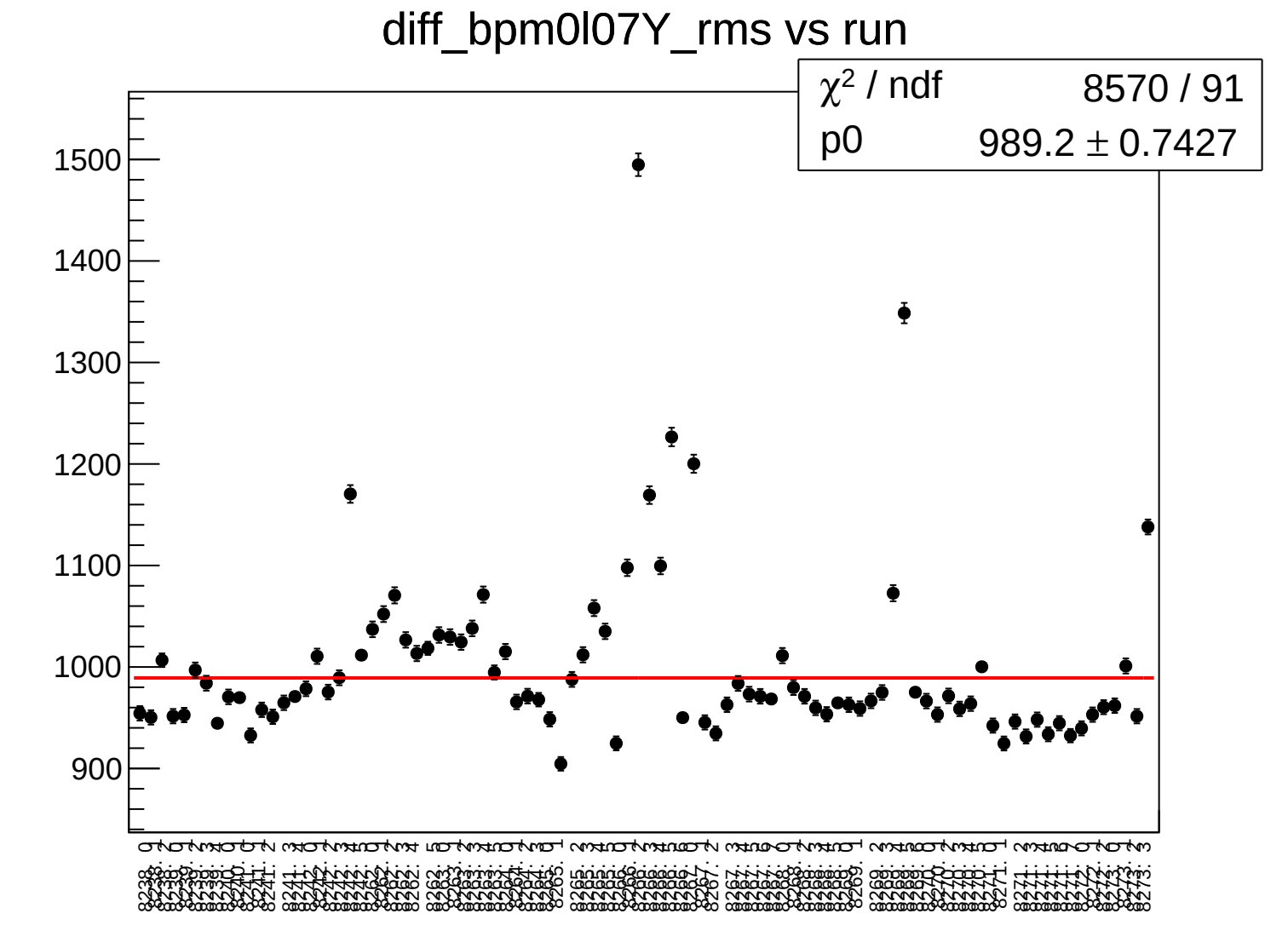

diff_bpm0l07X_mean vs run
χ² / ndf 88.96 / 91
p0 −38.59 ± 13.52
pull
Entries 92
Mean −105.8
Std Dev 0

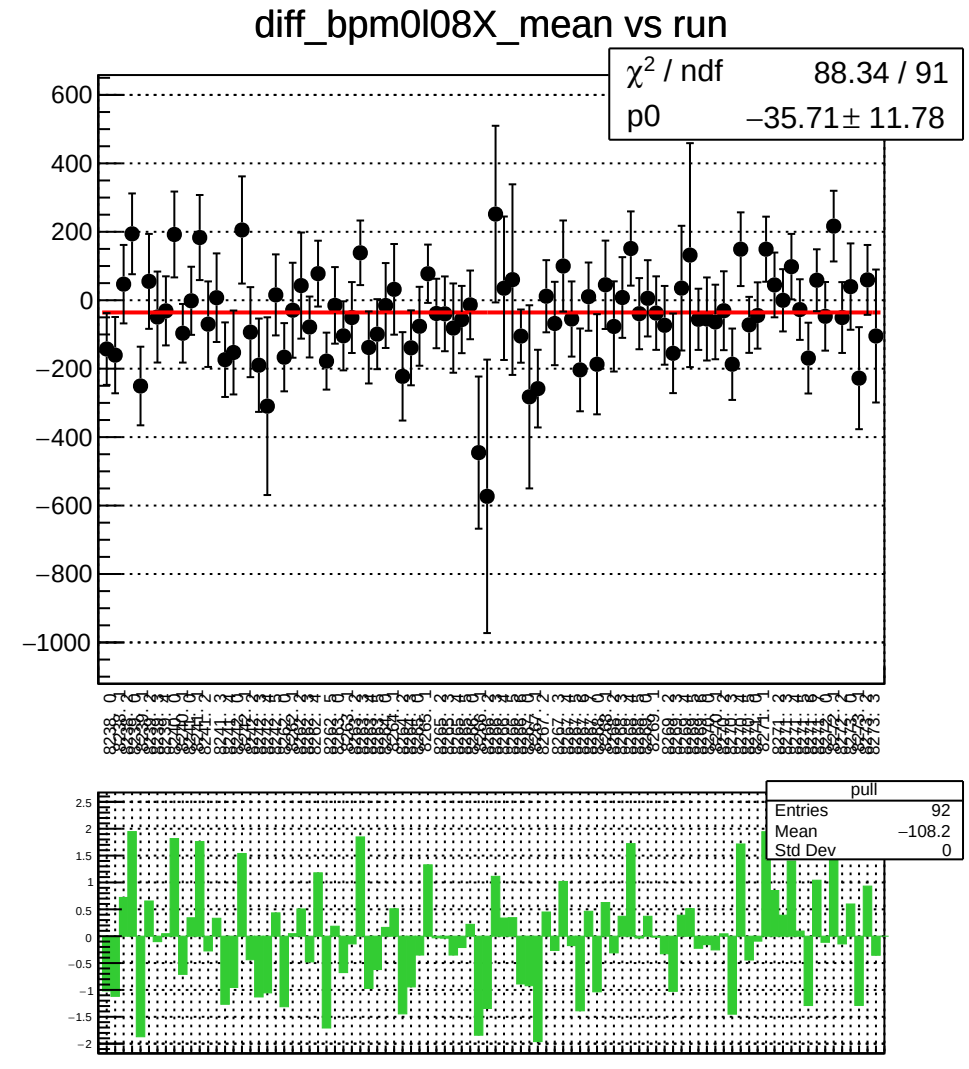

pull1D
Entries 92
Mean −0.01975
Std Dev 0.9832

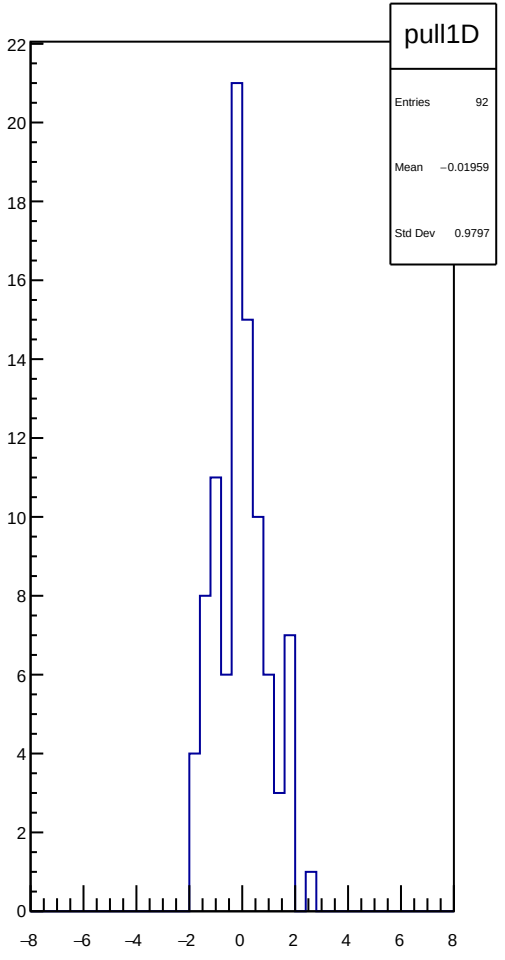

diff_bpm0l07X_rms vs run
χ² / ndf 8.64e+04 / 91
p0 1.245e+04 ± 9.558
45000
40000
35000
30000
25000
20000
15000
10000

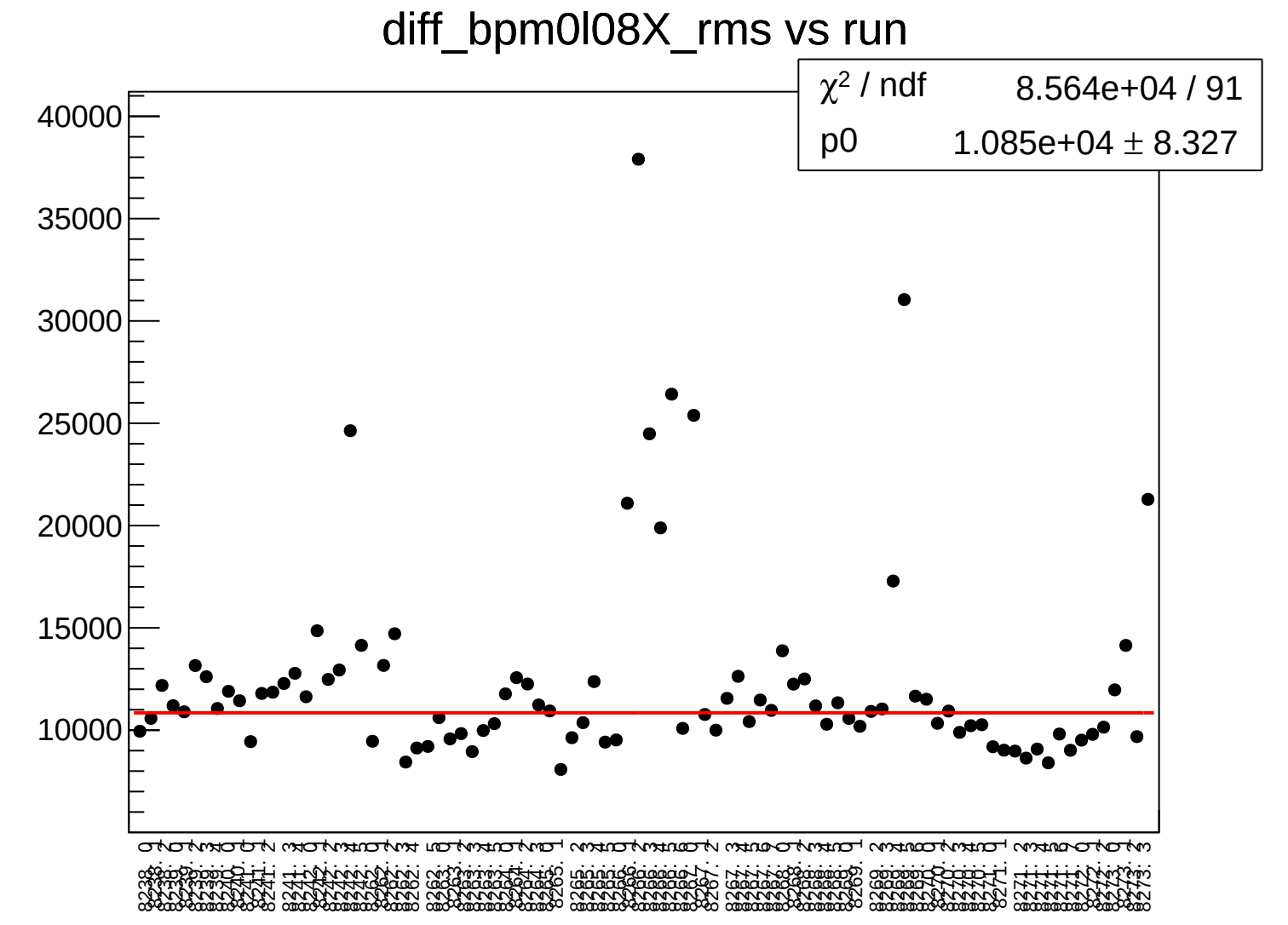

diff_bpm0l07Y_mean vs run
χ² / ndf 126.3 / 91
p0 −6.187 ± 1.05
pull
Entries 92
Mean 582.4
Std Dev 0

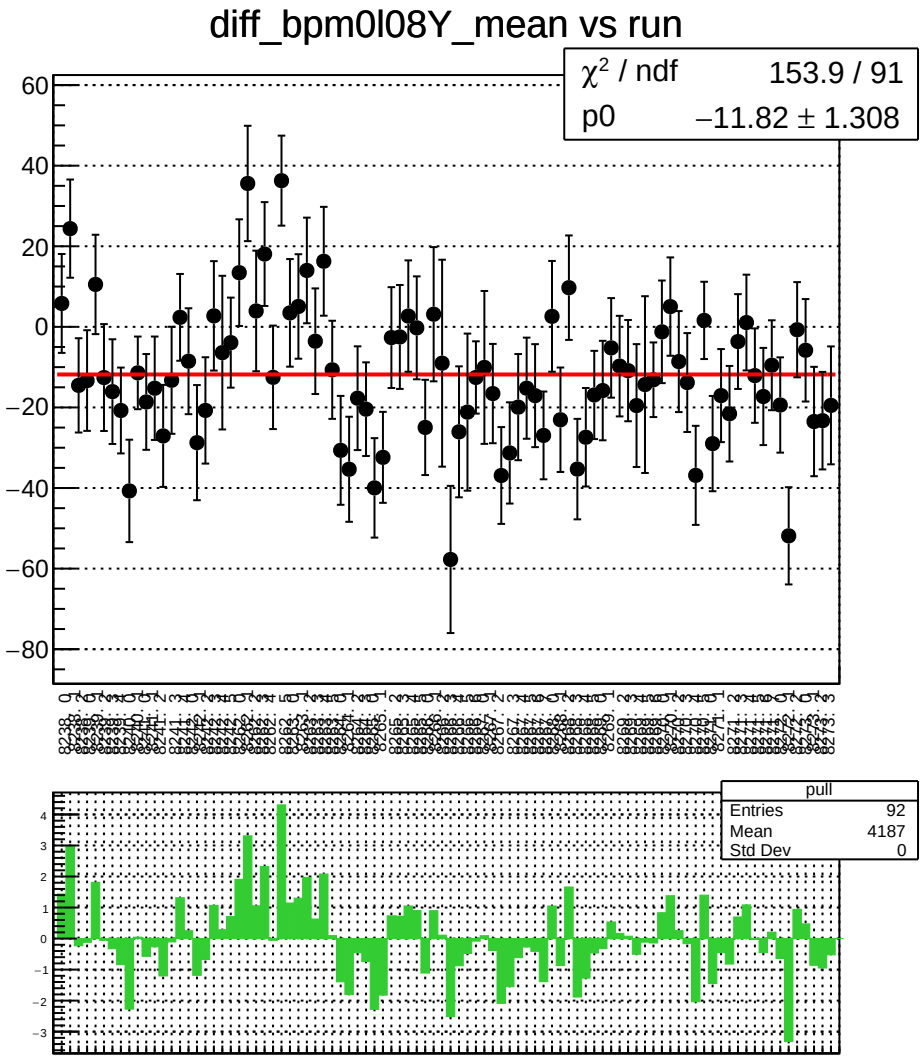

pull1D
Entries 92
Mean −0.008044
Std Dev 1.172

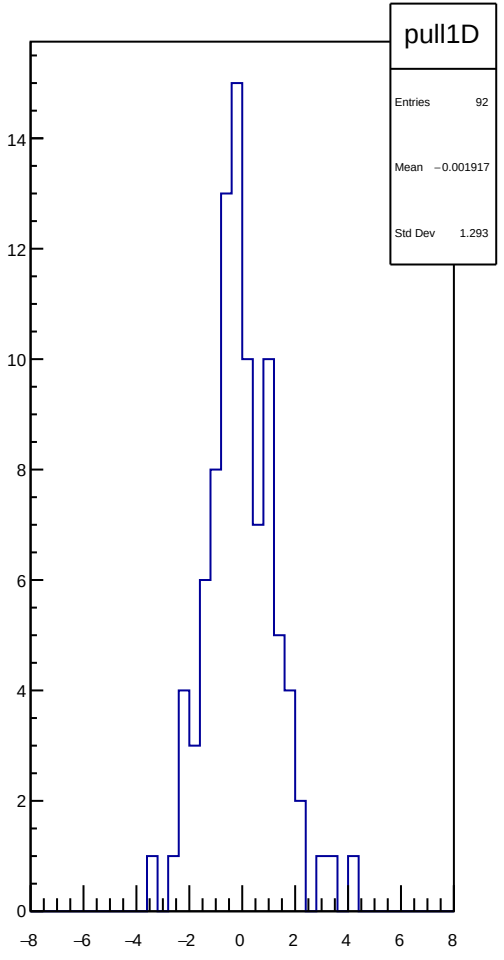

diff_bpm0l07Y_rms vs run
χ² / ndf 8570 / 91
p0 989.2 ± 0.7427
1500
1400
1300
1200
1100
1000
900

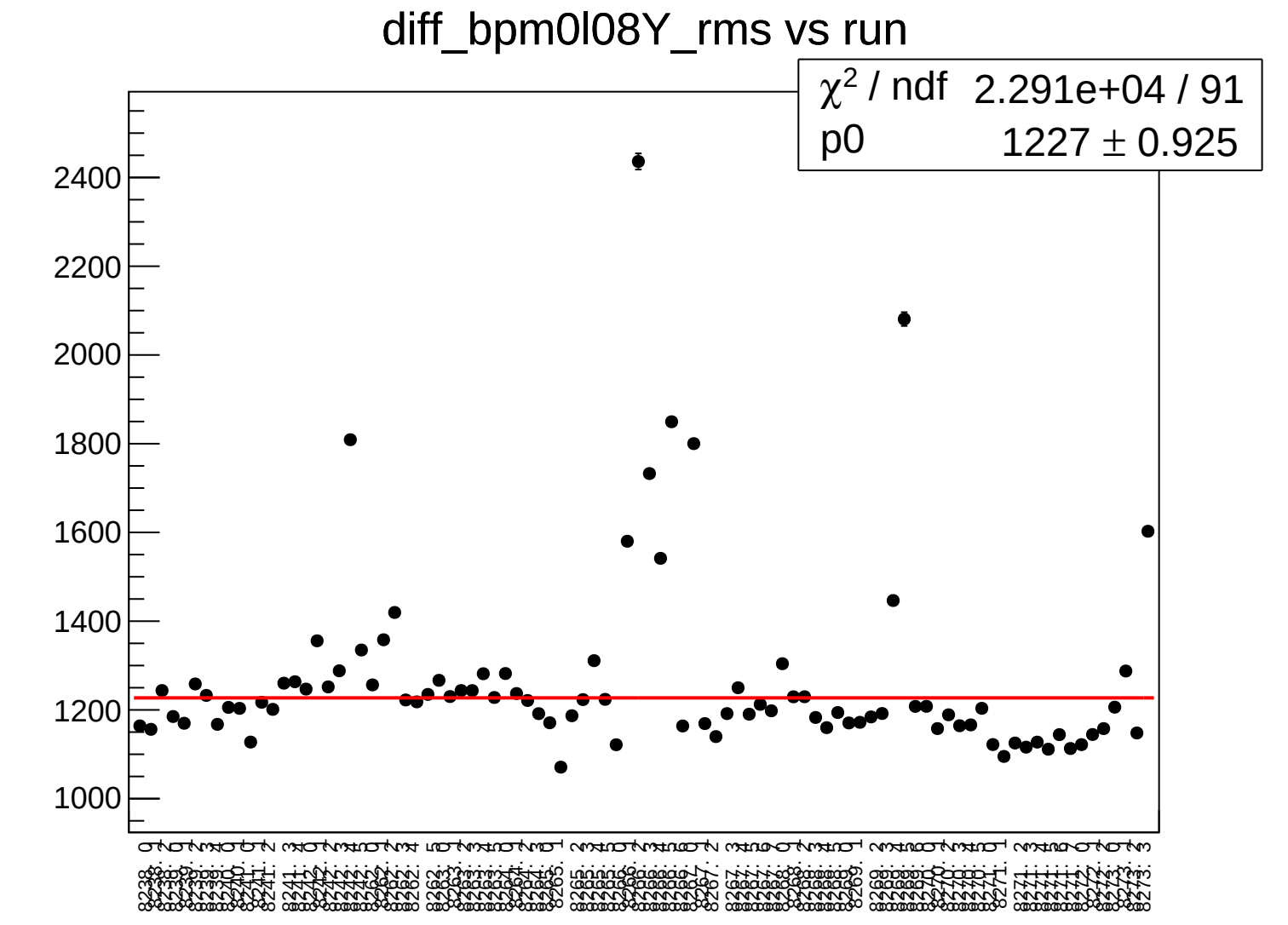

diff_bpm0l08X_mean vs run
χ² / ndf 88.34 / 91
p0 −35.71 ± 11.78
pull
Entries 92
Mean −108.2
Std Dev 0

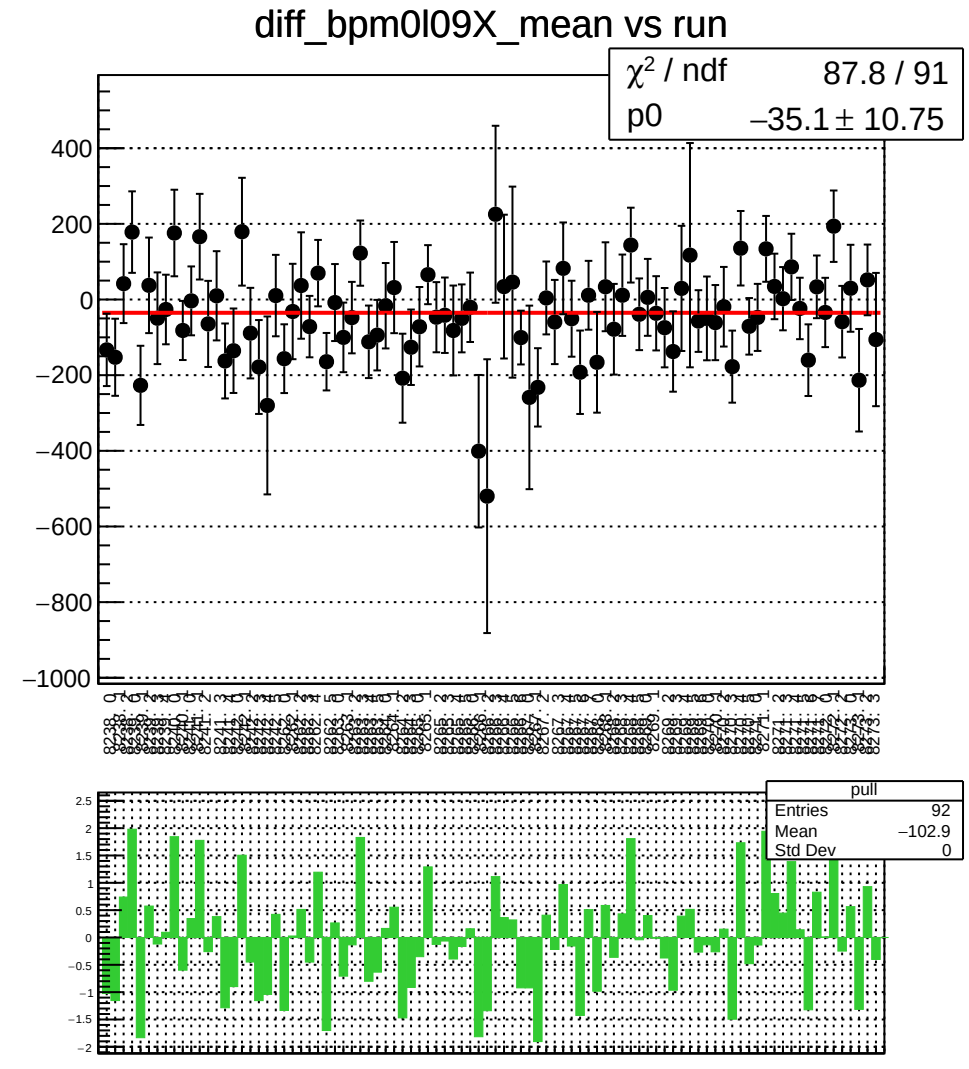

pull1D
Entries 92
Mean −0.01959
Std Dev 0.9797

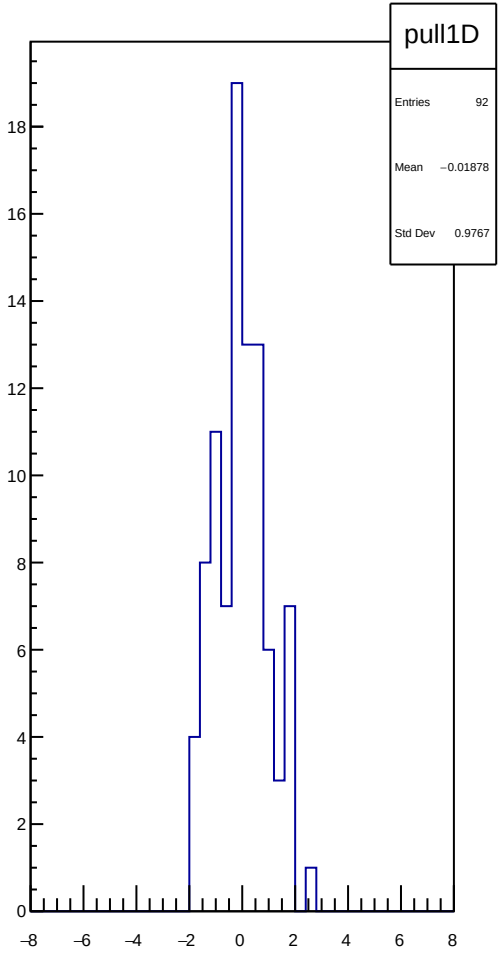

diff_bpm0l08X_rms vs run
χ² / ndf 8.564e+04 / 91
p0 1.085e+04 ± 8.327
40000
35000
30000
25000
20000
15000
10000

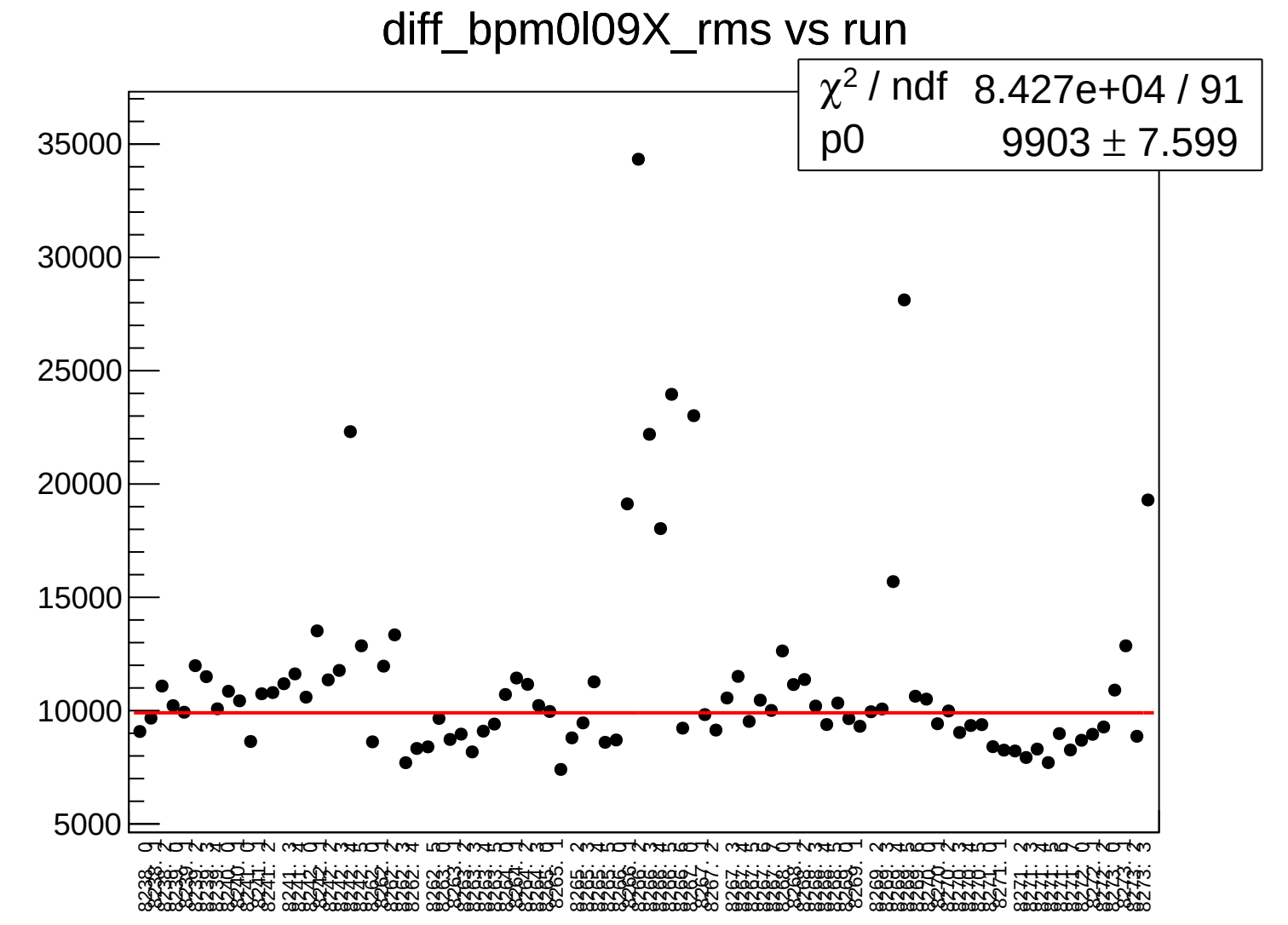

diff_bpm0l08Y_mean vs run
χ² / ndf 153.9 / 91
p0 −11.82 ± 1.308
pull
Entries 92
Mean 4187
Std Dev 0

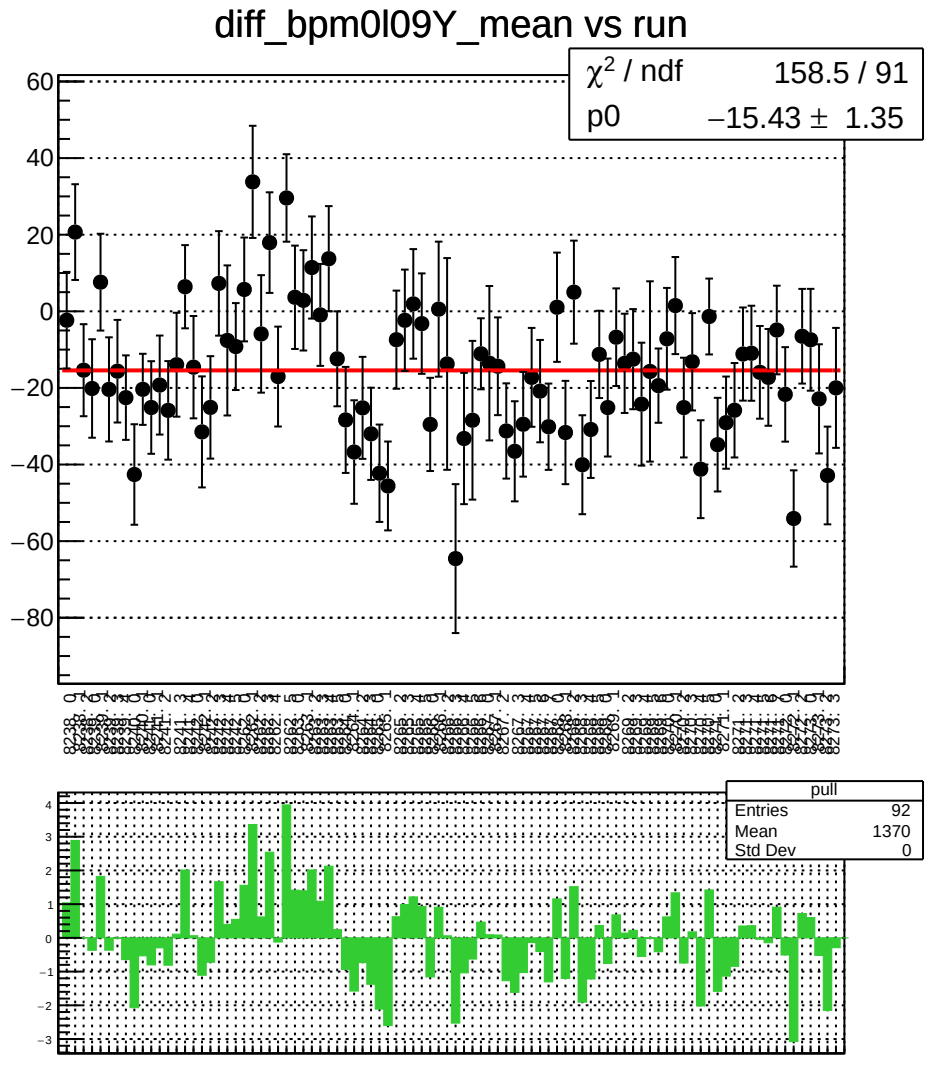

pull1D
Entries 92
Mean −0.001917
Std Dev 1.293

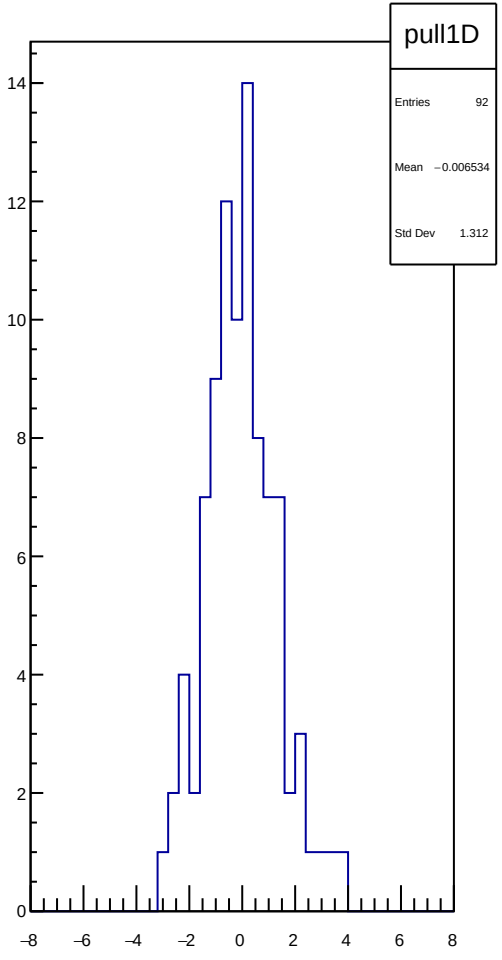

diff_bpm0l08Y_rms vs run
χ² / ndf 2.291e+04 / 91
p0 1227 ± 0.925
2400
2200
2000
1800
1600
1400
1200
1000

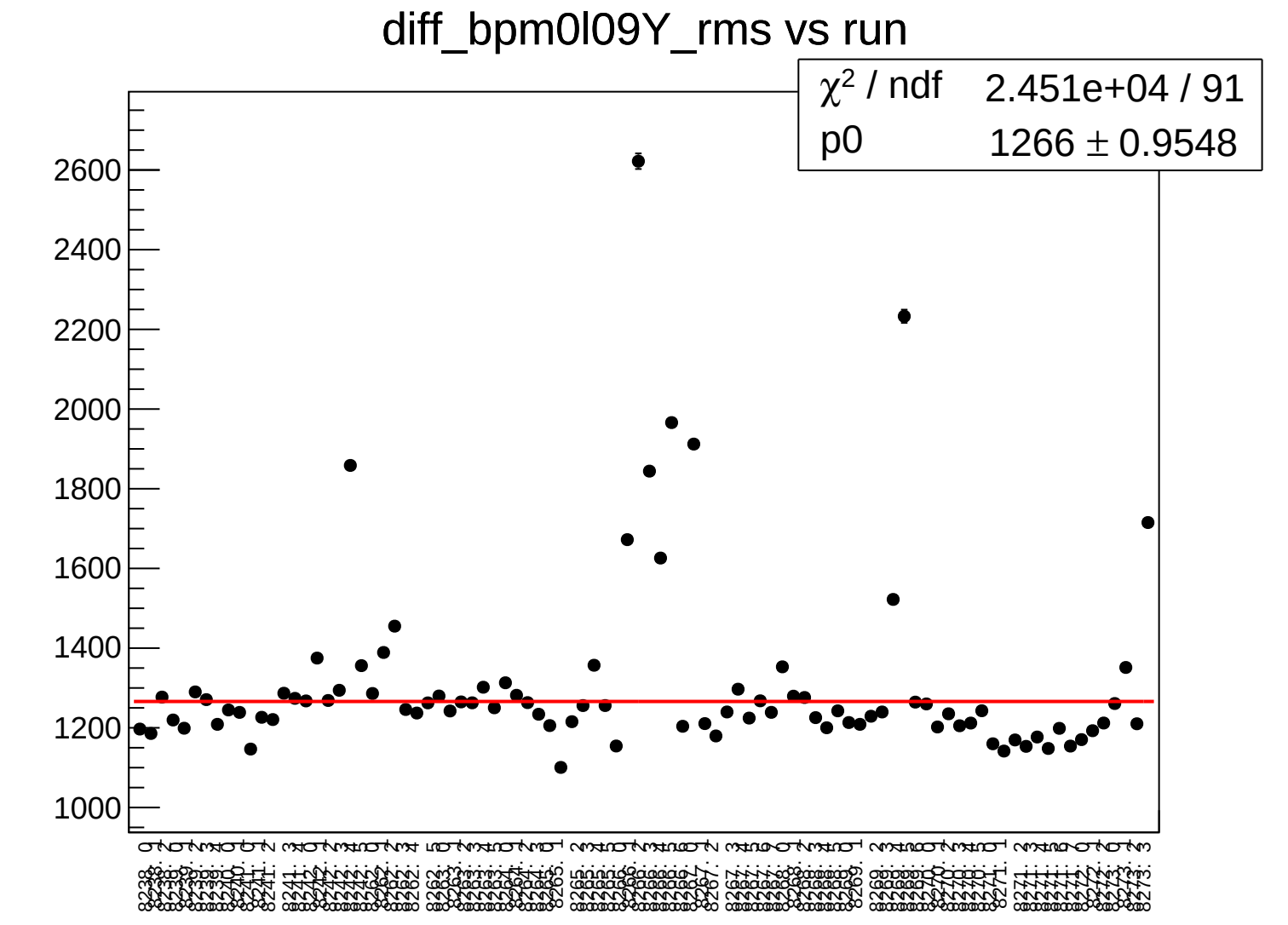

diff_bpm0l09X_mean vs run
χ² / ndf 87.8 / 91
p0 −35.1 ± 10.75
pull
Entries 92
Mean −102.9
Std Dev 0

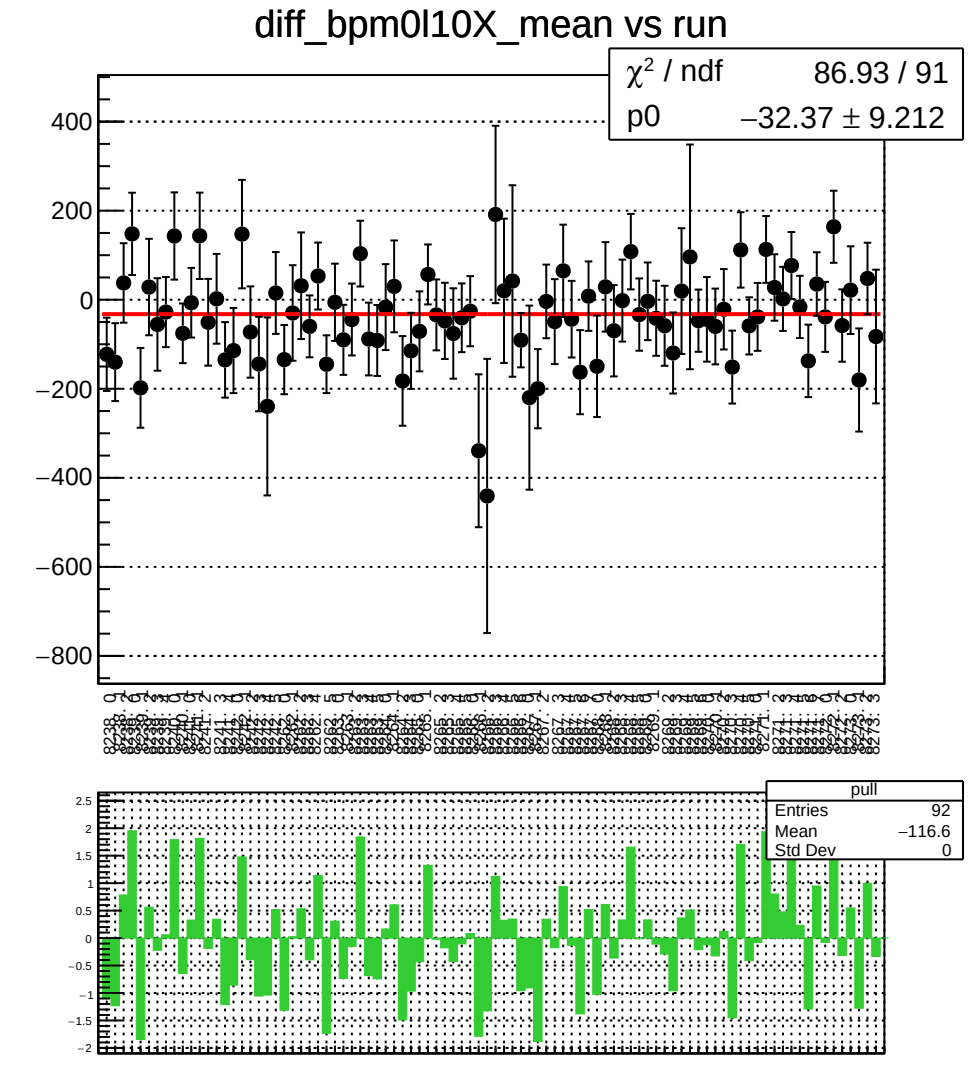

pull1D
Entries 92
Mean −0.01878
Std Dev 0.9767

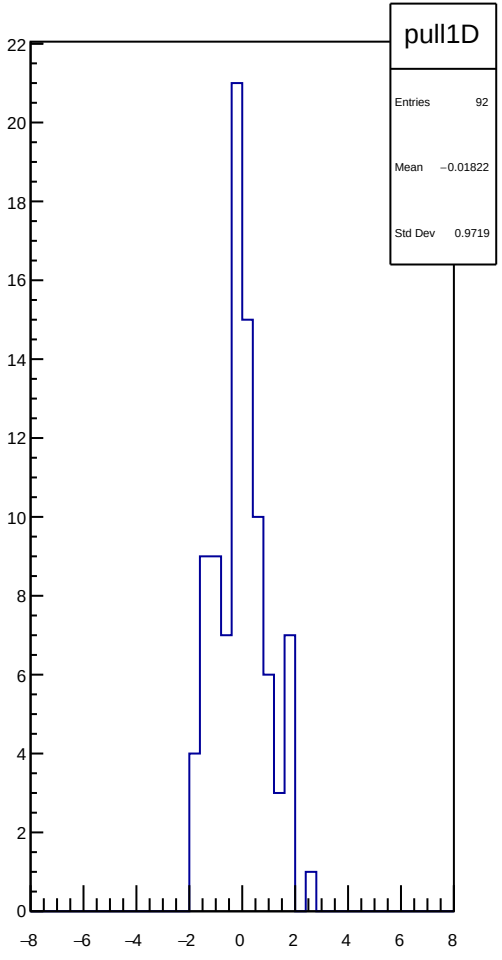

diff_bpm0l09X_rms vs run
χ² / ndf 8.427e+04 / 91
p0 9903 ± 7.599
35000
30000
25000
20000
15000
10000
5000

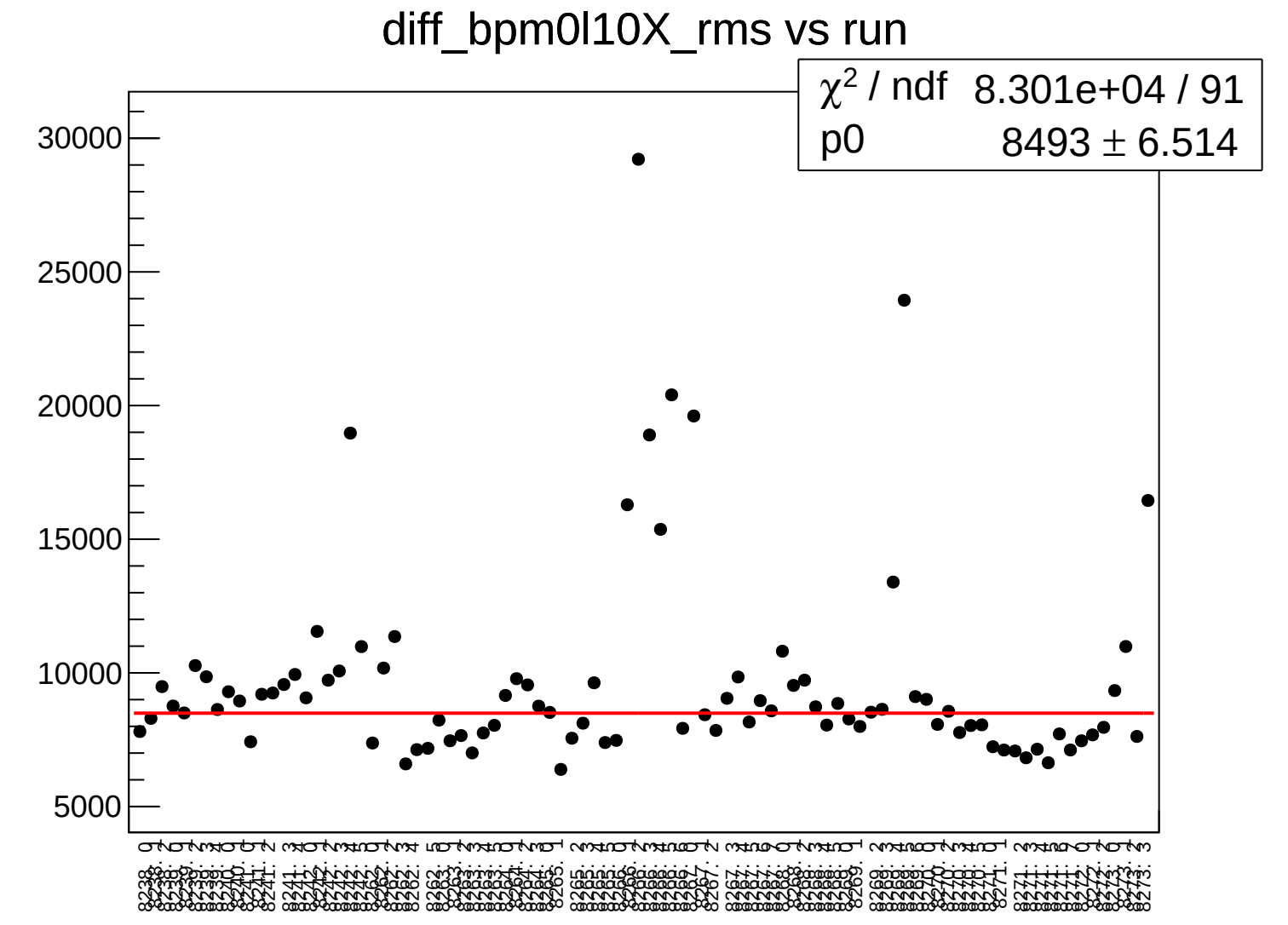

diff_bpm0l09Y_mean vs run
χ² / ndf 158.5 / 91
p0 −15.43 ± 1.35
pull
Entries 92
Mean 1370
Std Dev 0

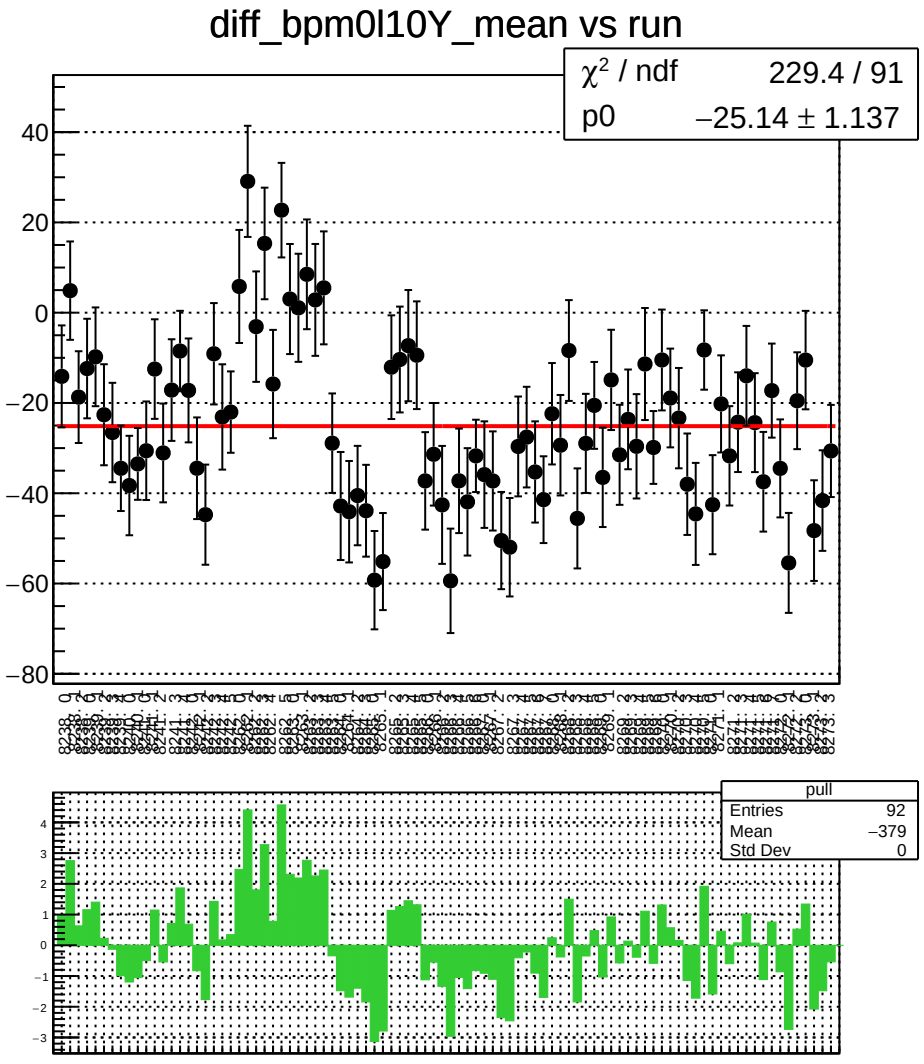

pull1D
Entries 92
Mean −0.006534
Std Dev 1.312

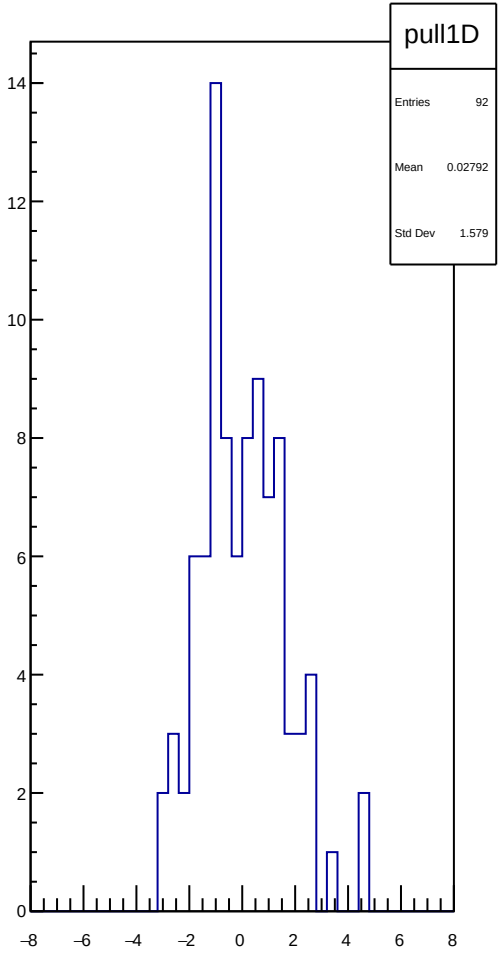

diff_bpm0l09Y_rms vs run
χ² / ndf 2.451e+04 / 91
p0 1266 ± 0.9548
2600
2400
2200
2000
1800
1600
1400
1200
1000

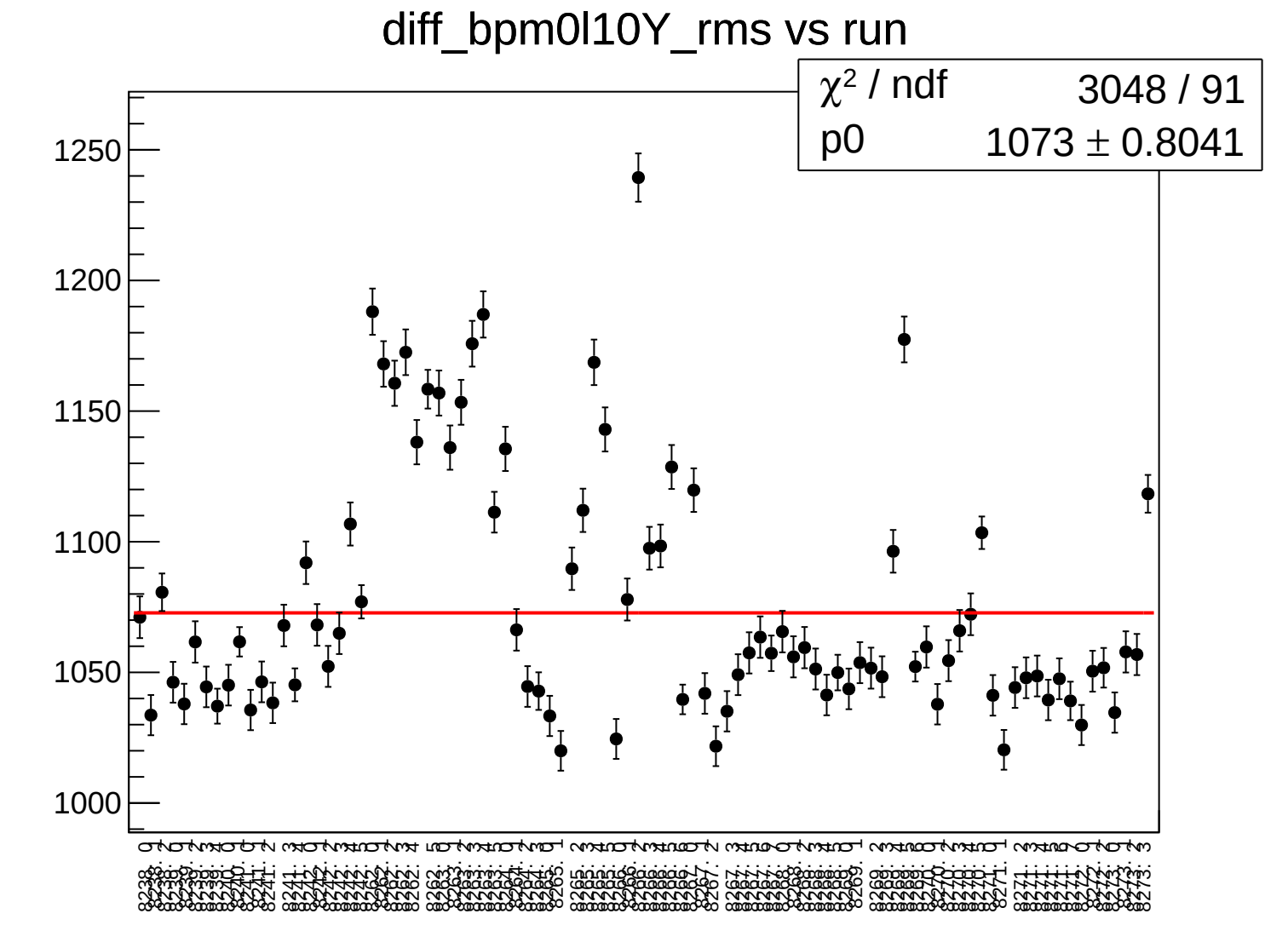

diff_bpm0l10X_mean vs run
χ² / ndf 86.93 / 91
p0 −32.37 ± 9.212
pull
Entries 92
Mean −116.6
Std Dev 0

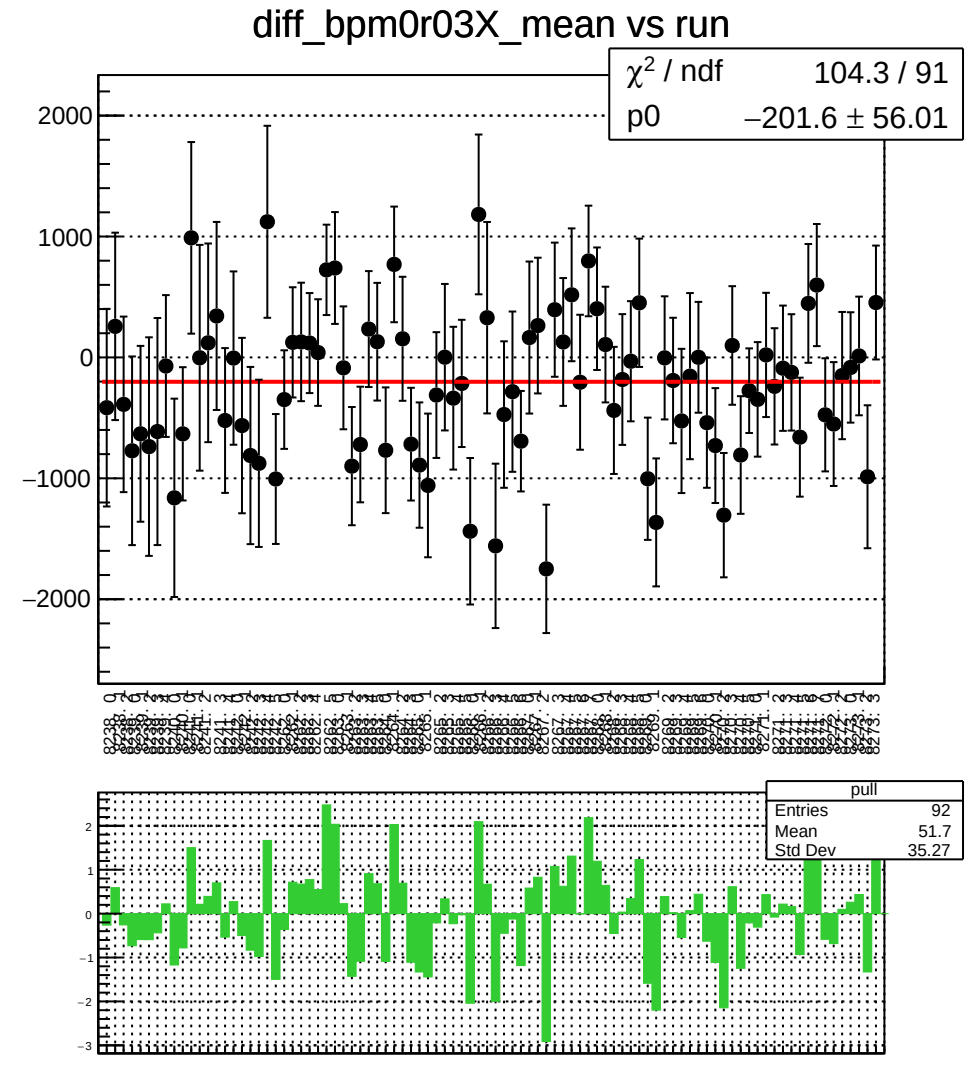

pull1D
Entries 92
Mean −0.01822
Std Dev 0.9719

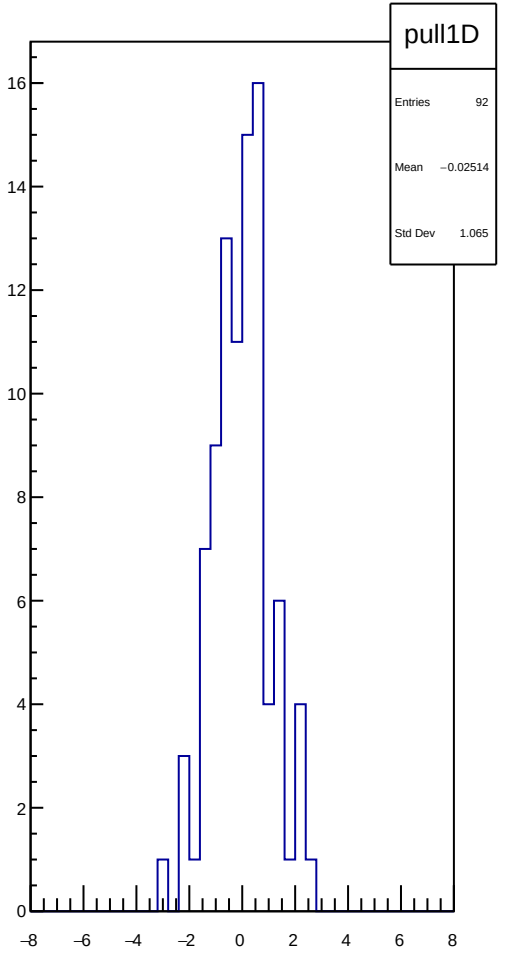

diff_bpm0l10X_rms vs run
χ² / ndf 8.301e+04 / 91
p0 8493 ± 6.514
30000
25000
20000
15000
10000
5000

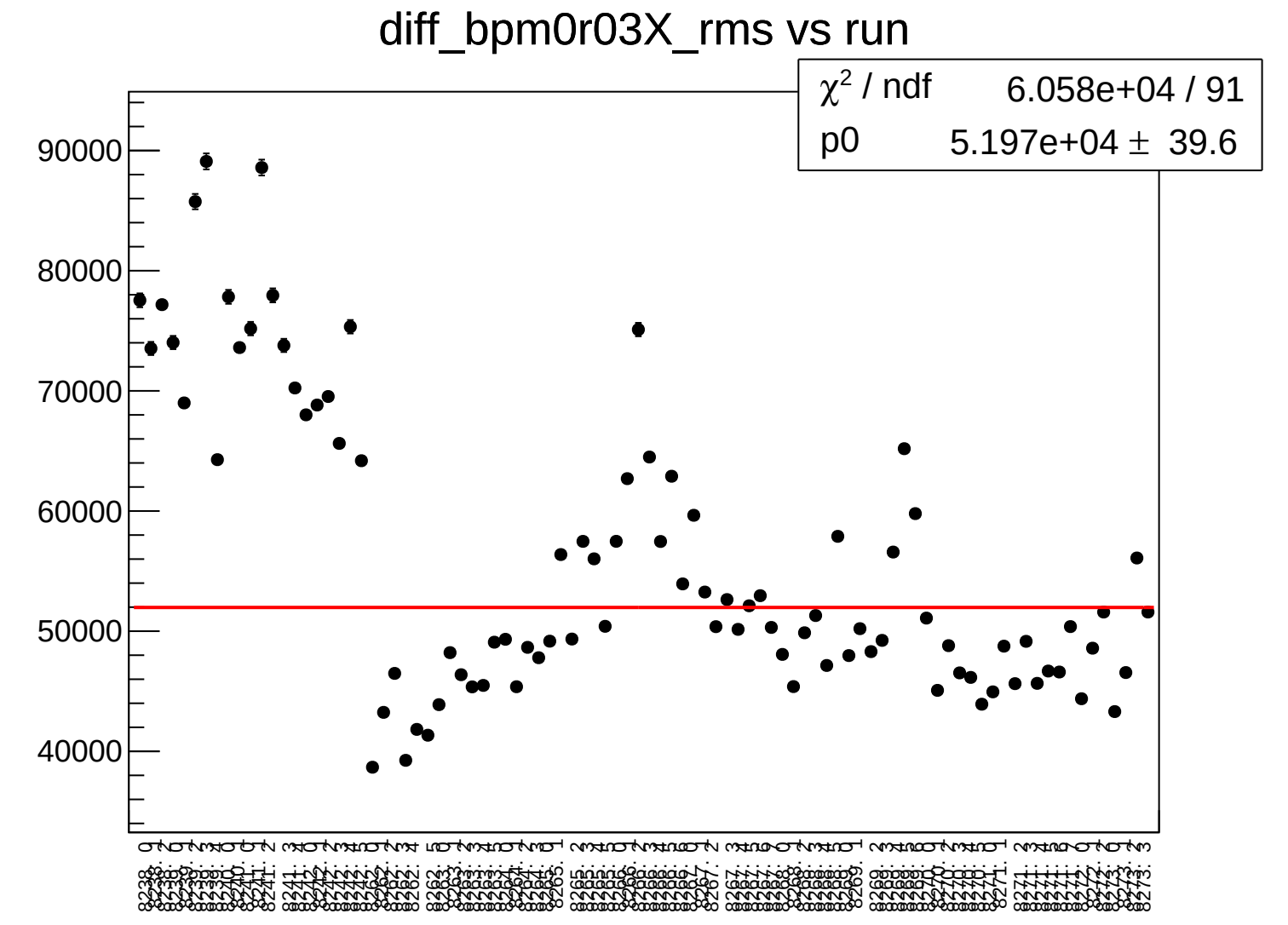

diff_bpm0l10Y_mean vs run
χ² / ndf 229.4 / 91
p0 −25.14 ± 1.137
pull
Entries 92
Mean −379
Std Dev 0

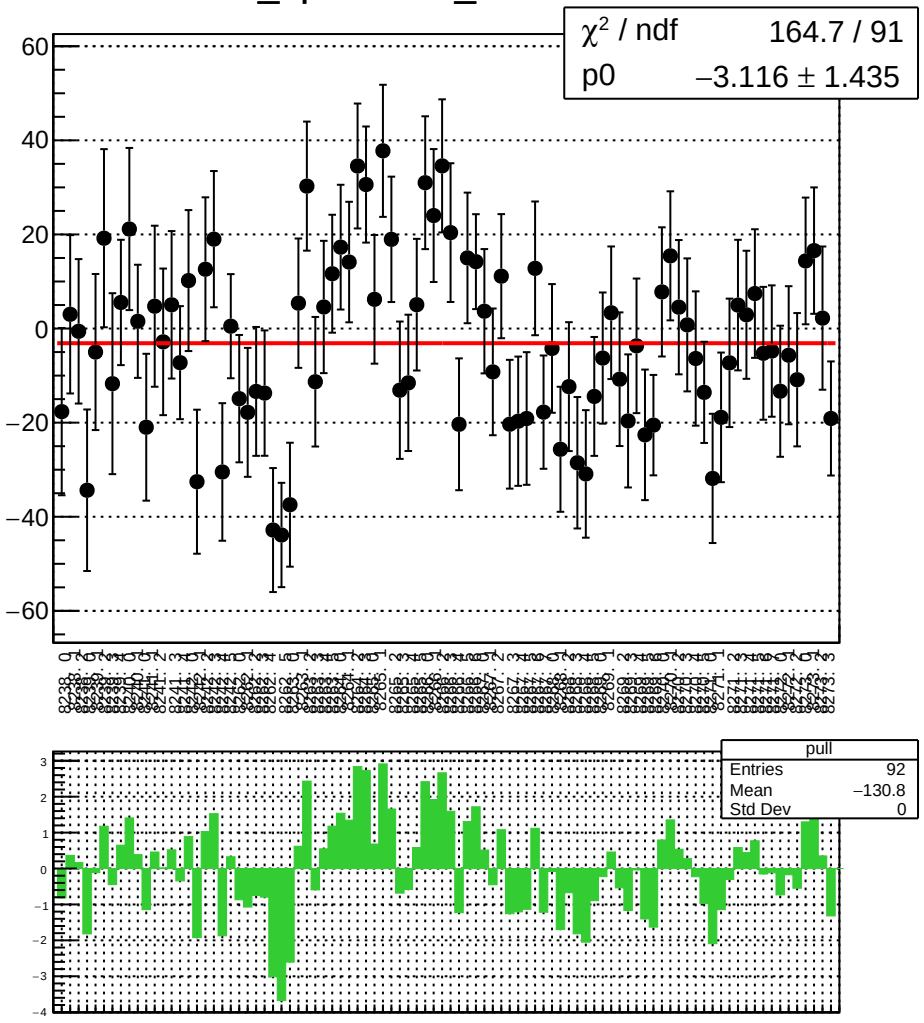

pull1D
Entries 92
Mean 0.02792
Std Dev 1.579

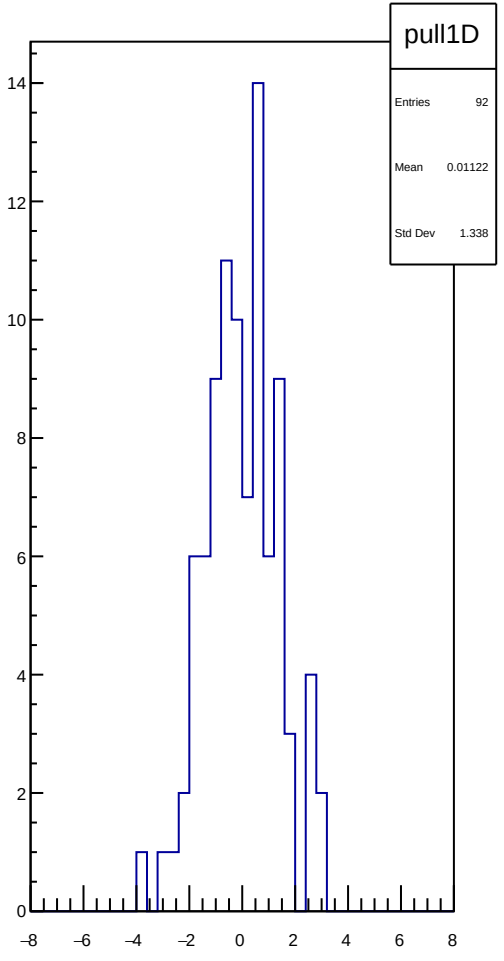

diff_bpm0l10Y_rms vs run
χ² / ndf 3048 / 91
p0 1073 ± 0.8041
1250
1200
1150
1100
1050
1000

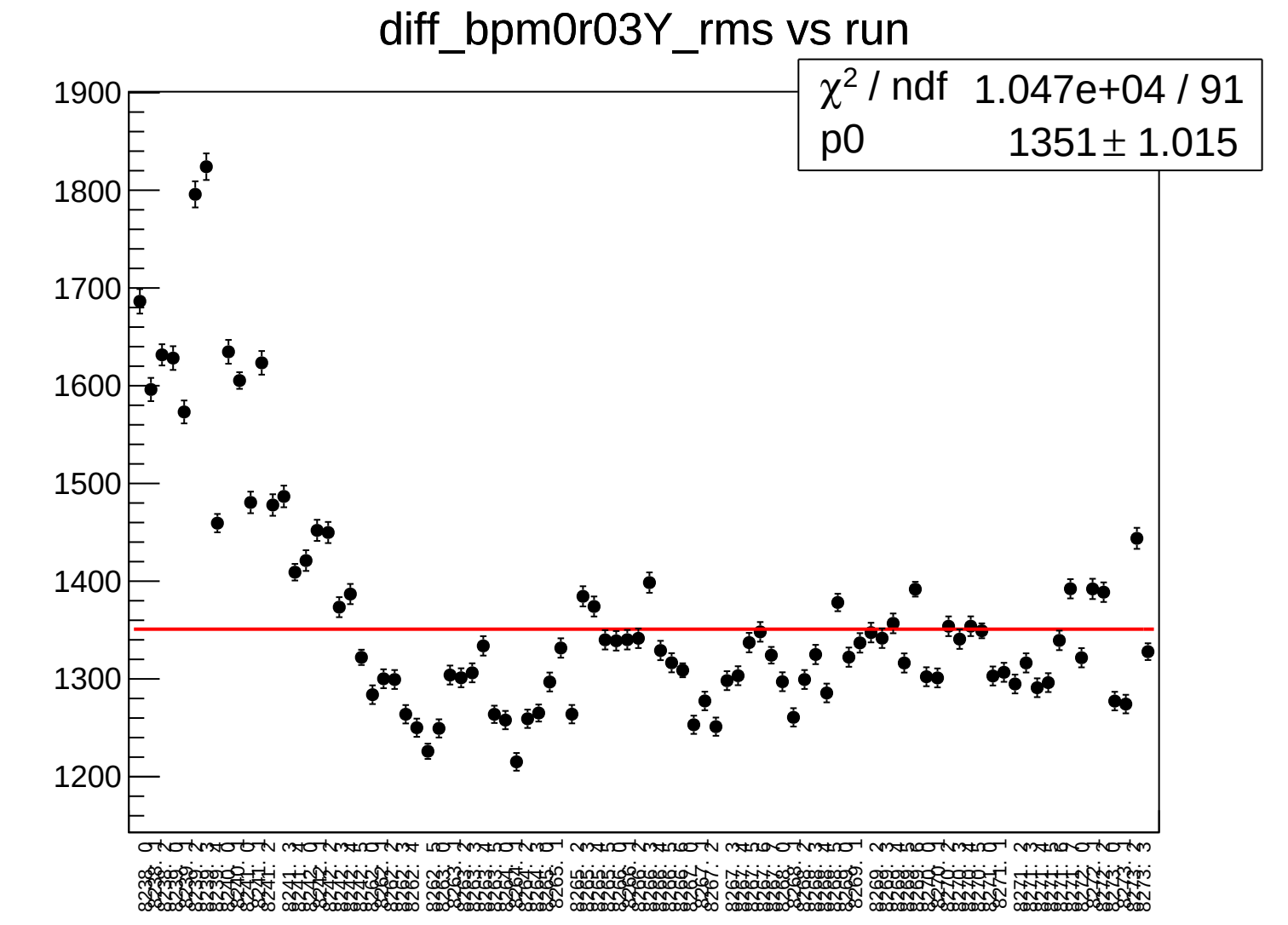

diff_bpm0r03X_mean vs run
χ² / ndf 104.3 / 91
p0 −201.6 ± 56.01
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 51.7
Std Dev 35.27
2
1
0
−1
−2
−3

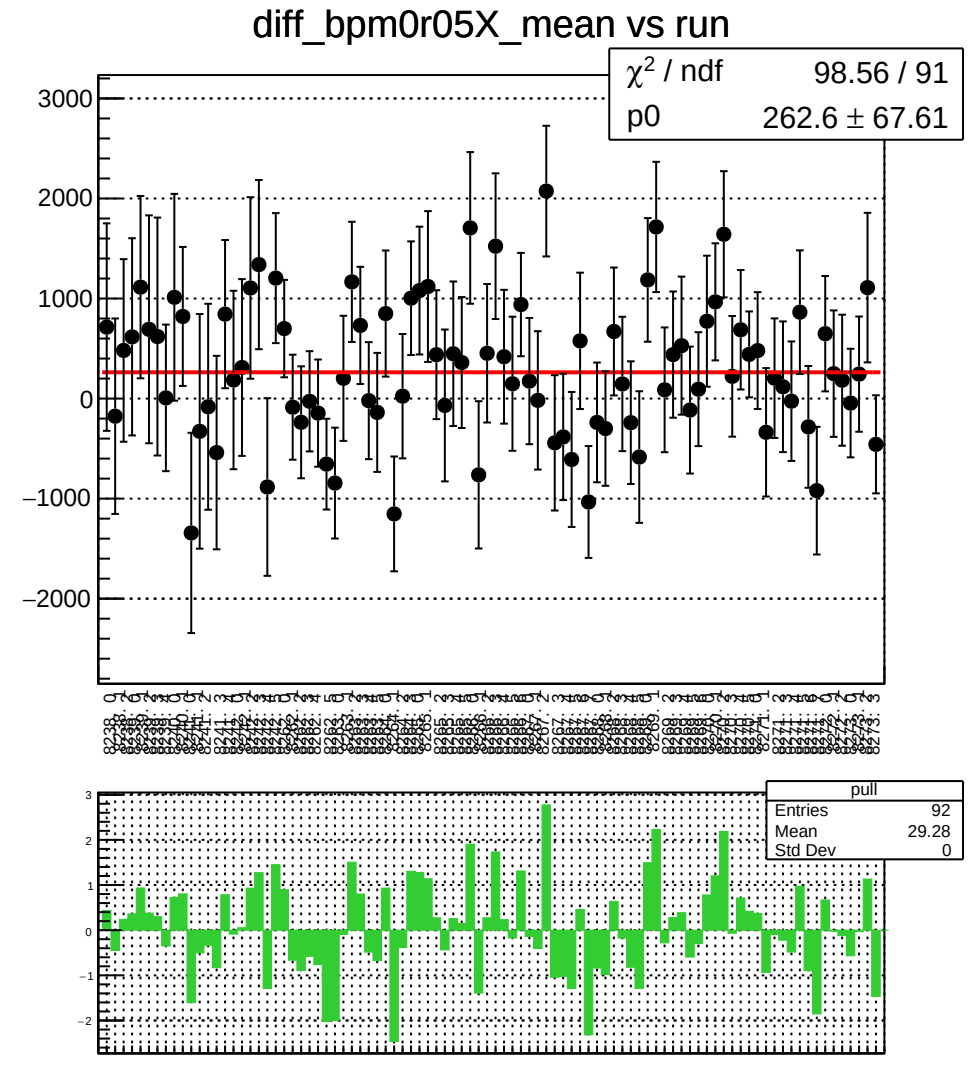

pull1D
Entries 92
Mean −0.02514
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

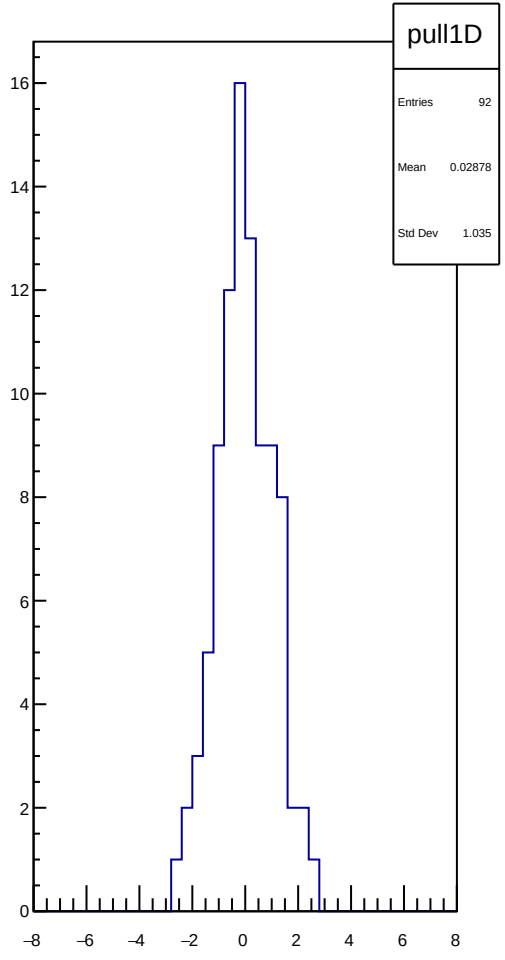

diff_bpm0r03X_rms vs run
$\chi^2$ / ndf 6.058e+04 / 91
p0 5.197e+04 ± 39.6
90000
80000
70000
60000
50000
40000

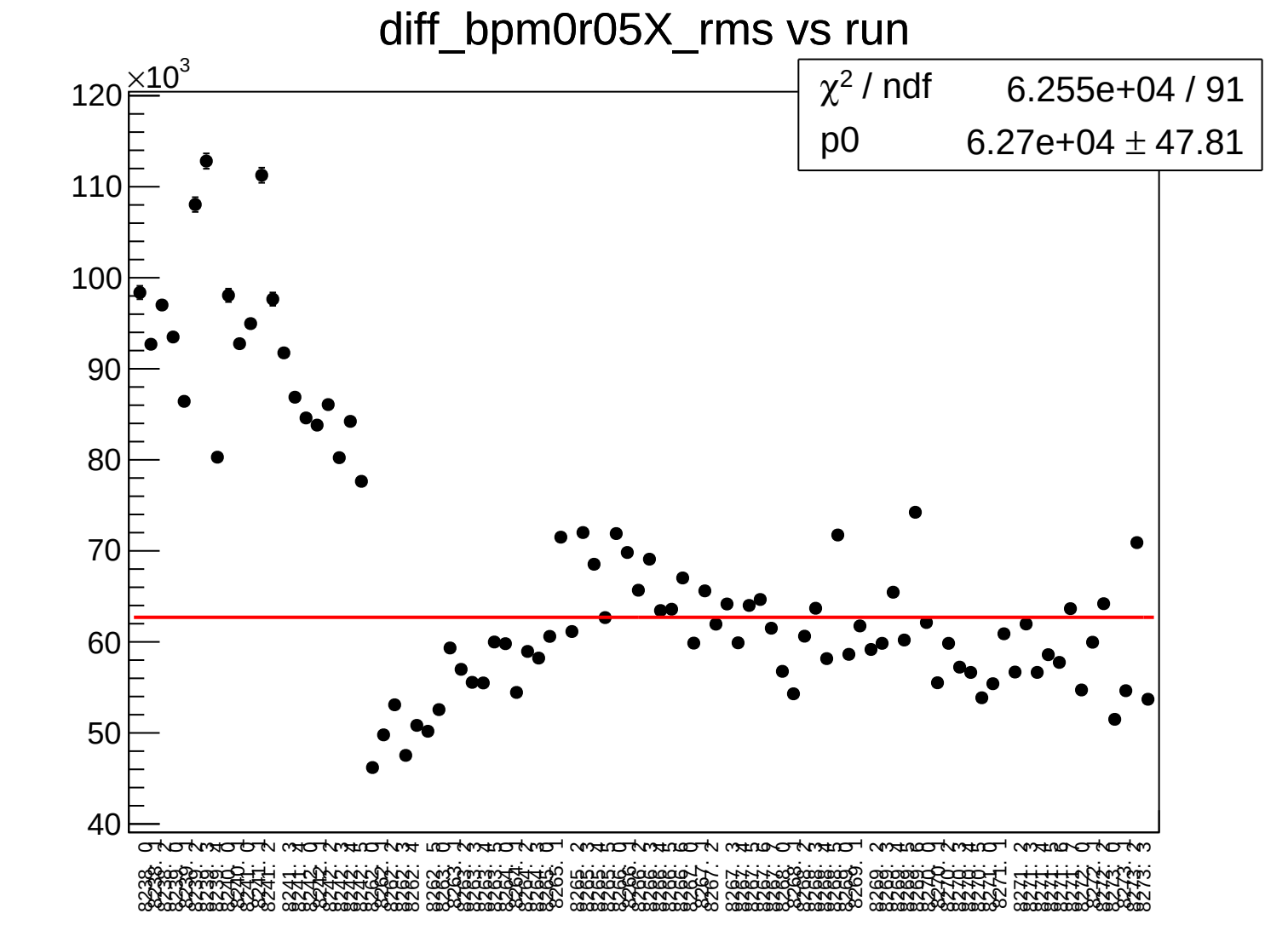

diff_bpm0r03Y_mean vs run
χ² / ndf 164.7 / 91
p0 −3.116 ± 1.435
pull
Entries 92
Mean −130.8
Std Dev 0

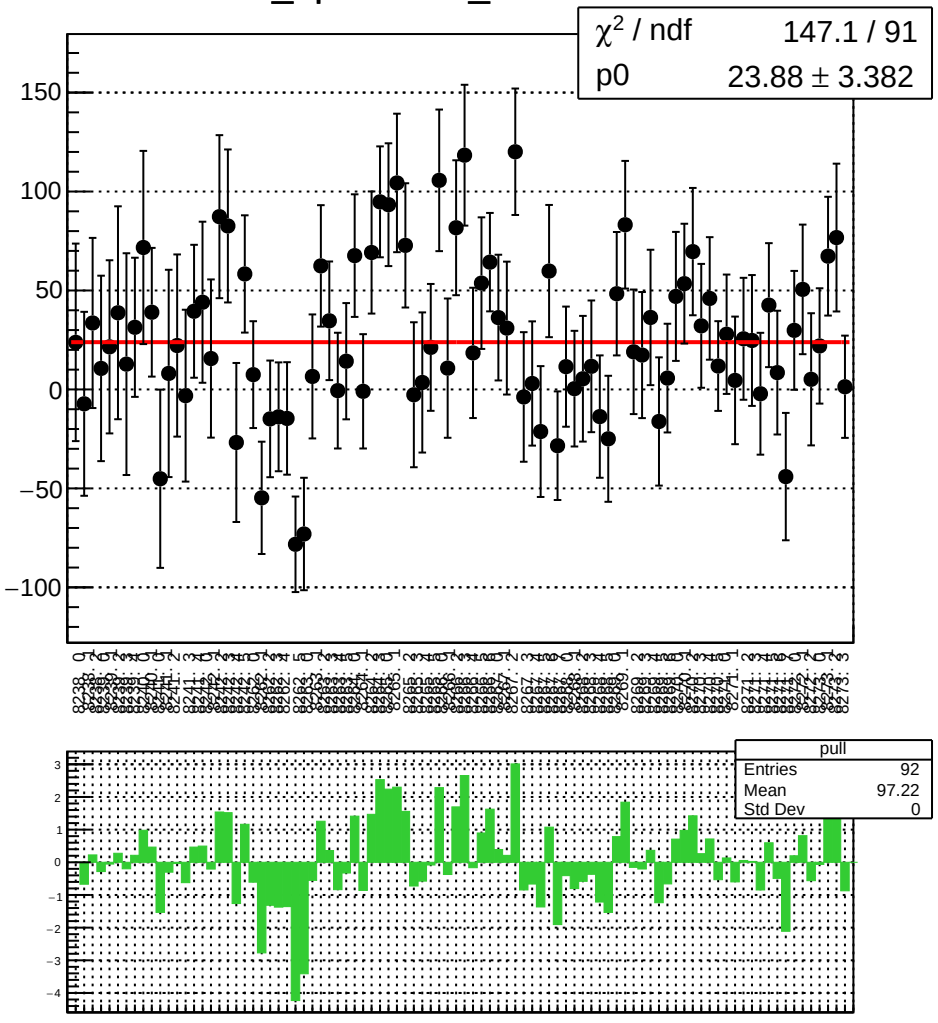

pull1D
Entries 92
Mean 0.01122
Std Dev 1.338

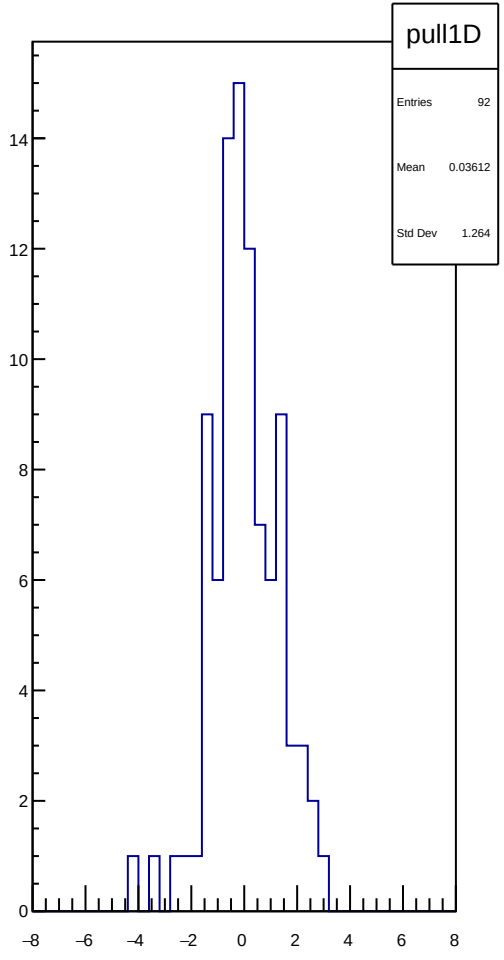

diff_bpm0r03Y_rms vs run
χ² / ndf 1.047e+04 / 91
p0 1351 ± 1.015
1900
1800
1700
1600
1500
1400
1300
1200

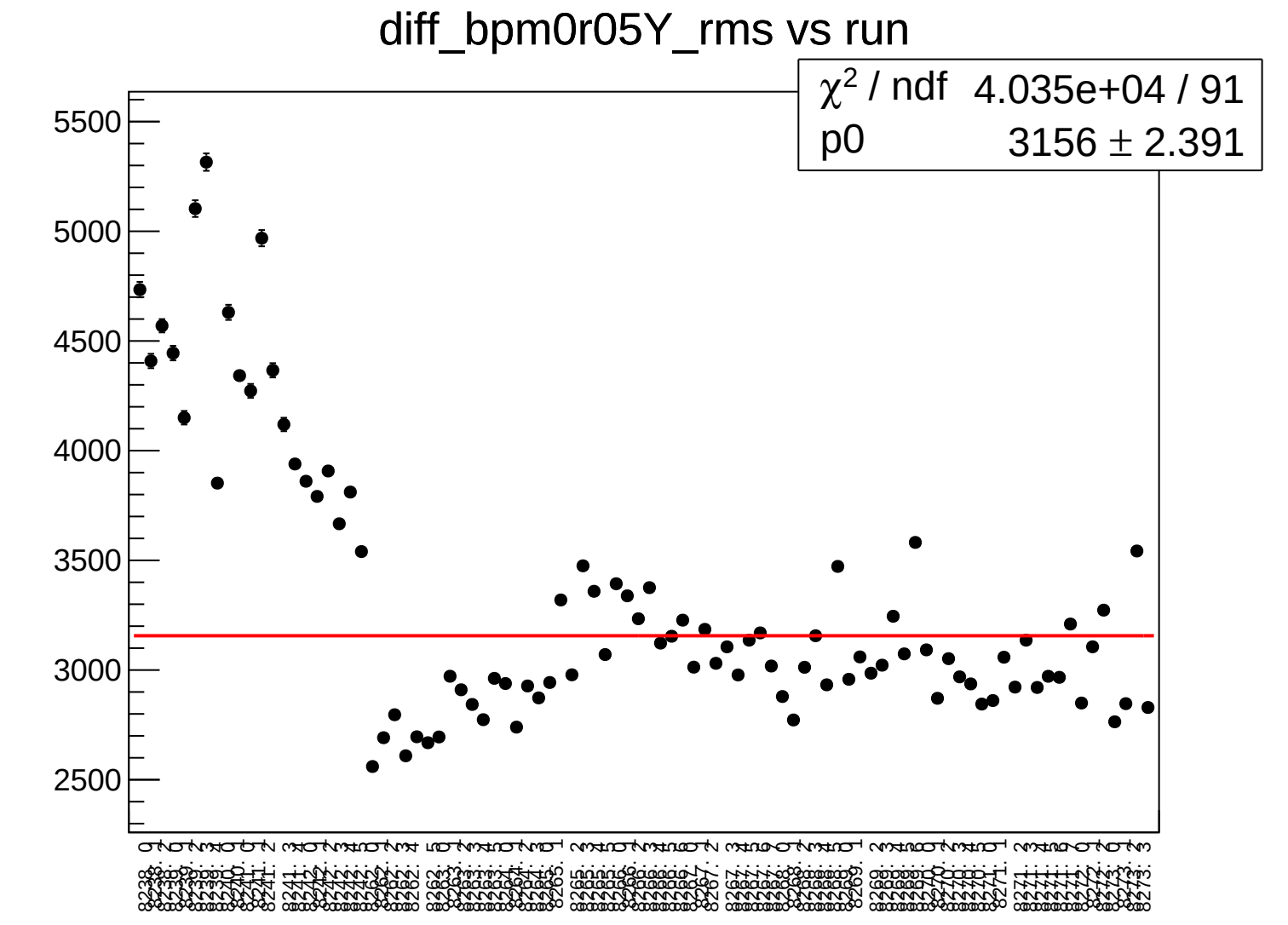

diff_bpm0r05X_mean vs run
χ² / ndf 98.56 / 91
p0 262.6 ± 67.61
3000
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 29.28
Std Dev 0
3
2
1
0
−1
−2

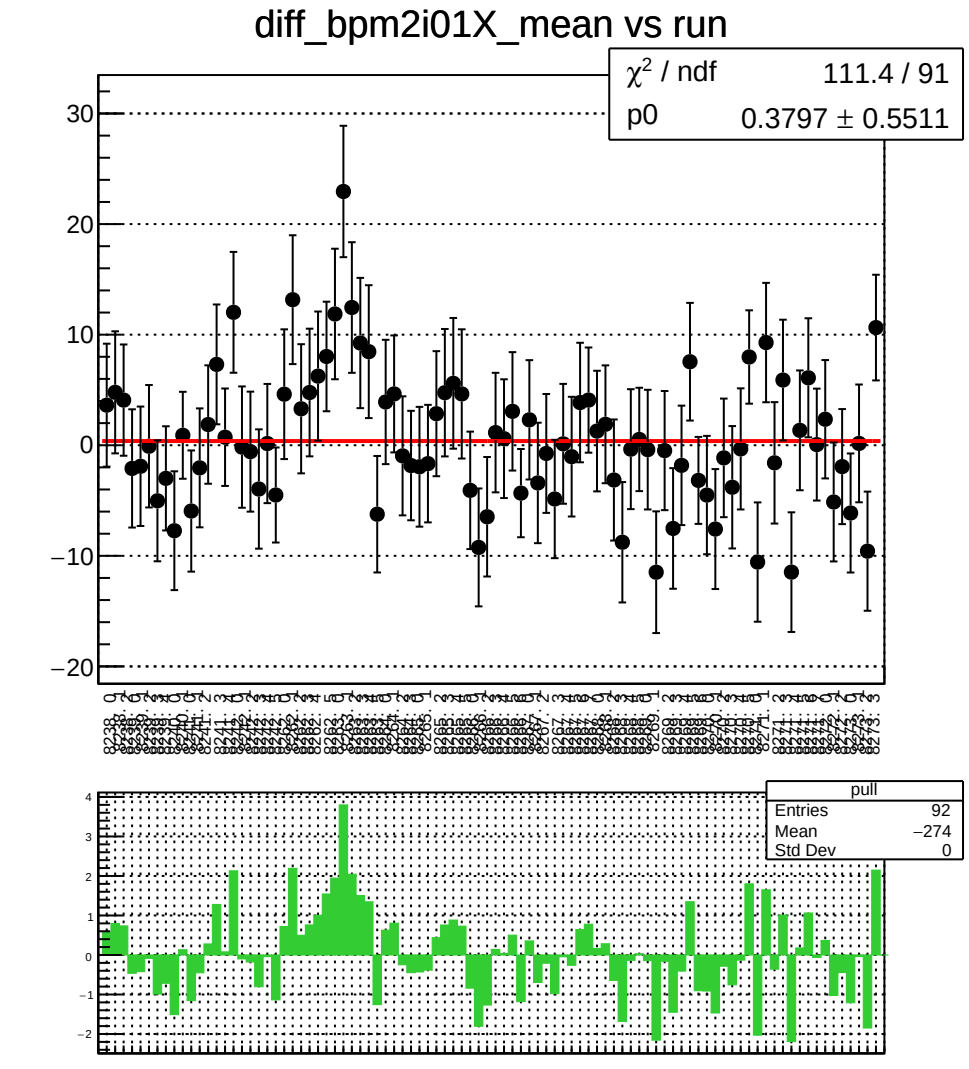

pull1D
Entries 92
Mean 0.02878
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

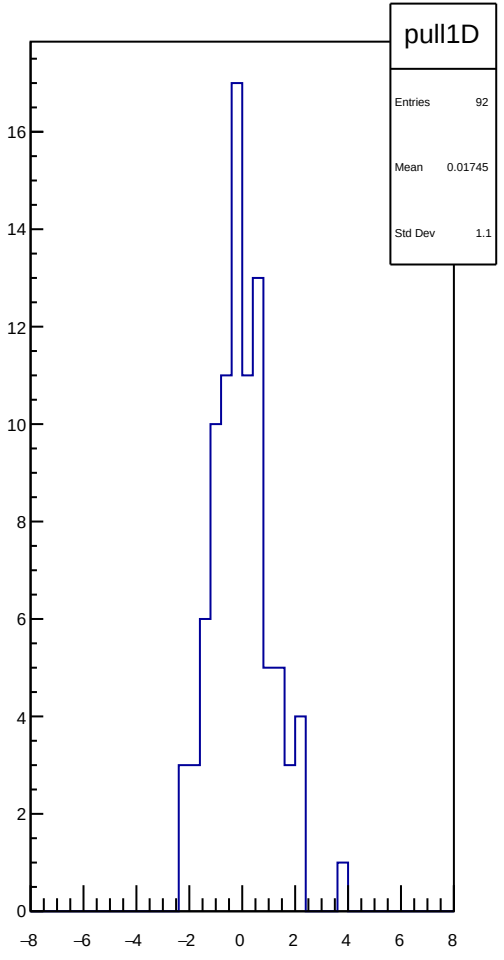

diff_bpm0r05X_rms vs run
×10^3
120
110
100
90
80
70
60
50
40
χ² / ndf 6.255e+04 / 91
p0 6.27e+04 ± 47.81

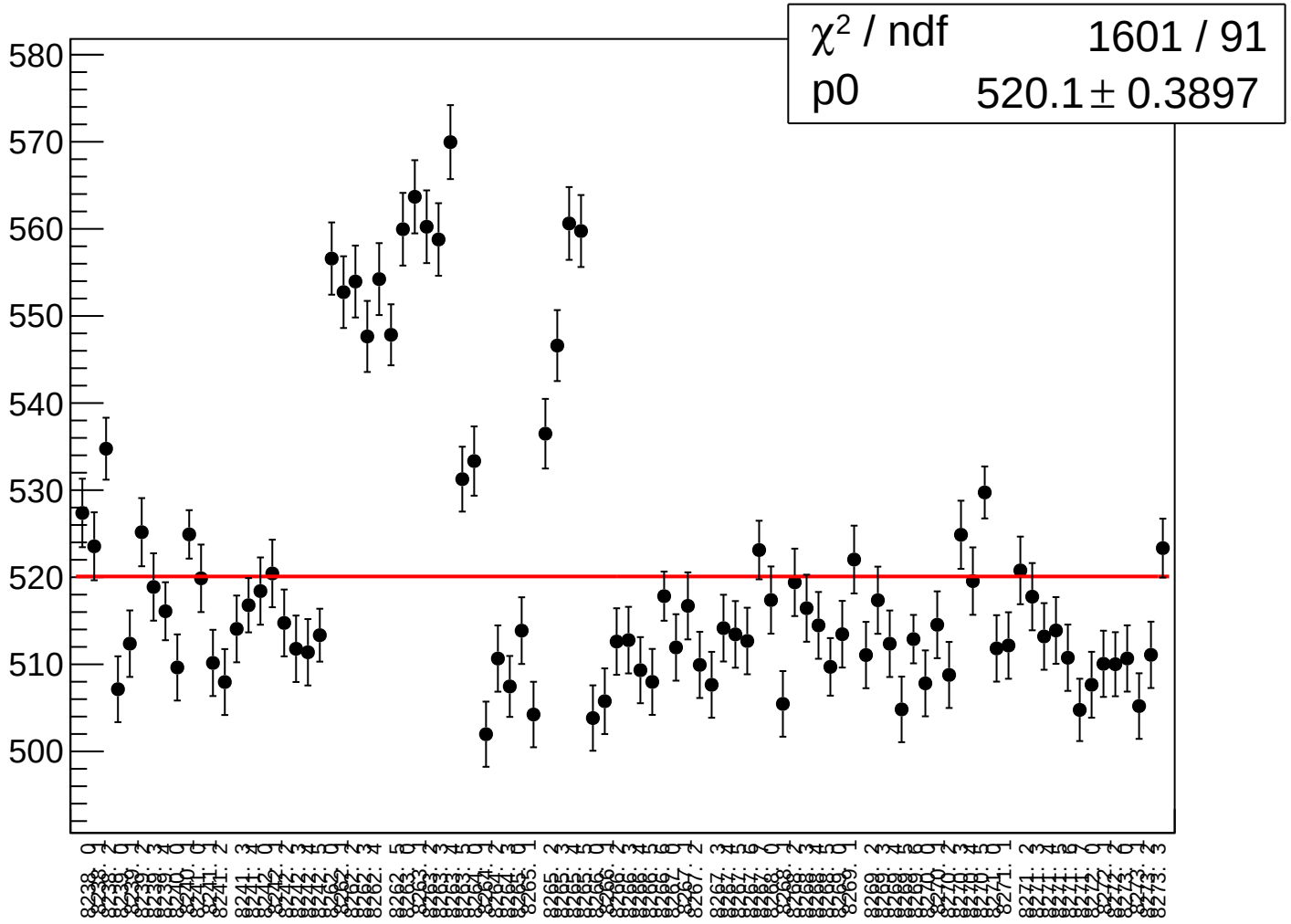

diff_bpm0r05Y_mean vs run
χ² / ndf 147.1 / 91
p0 23.88 ± 3.382
150
100
50
0
−50
−100
pull
Entries 92
Mean 97.22
Std Dev 0
3
2
1
0
−1
−2
−3
−4

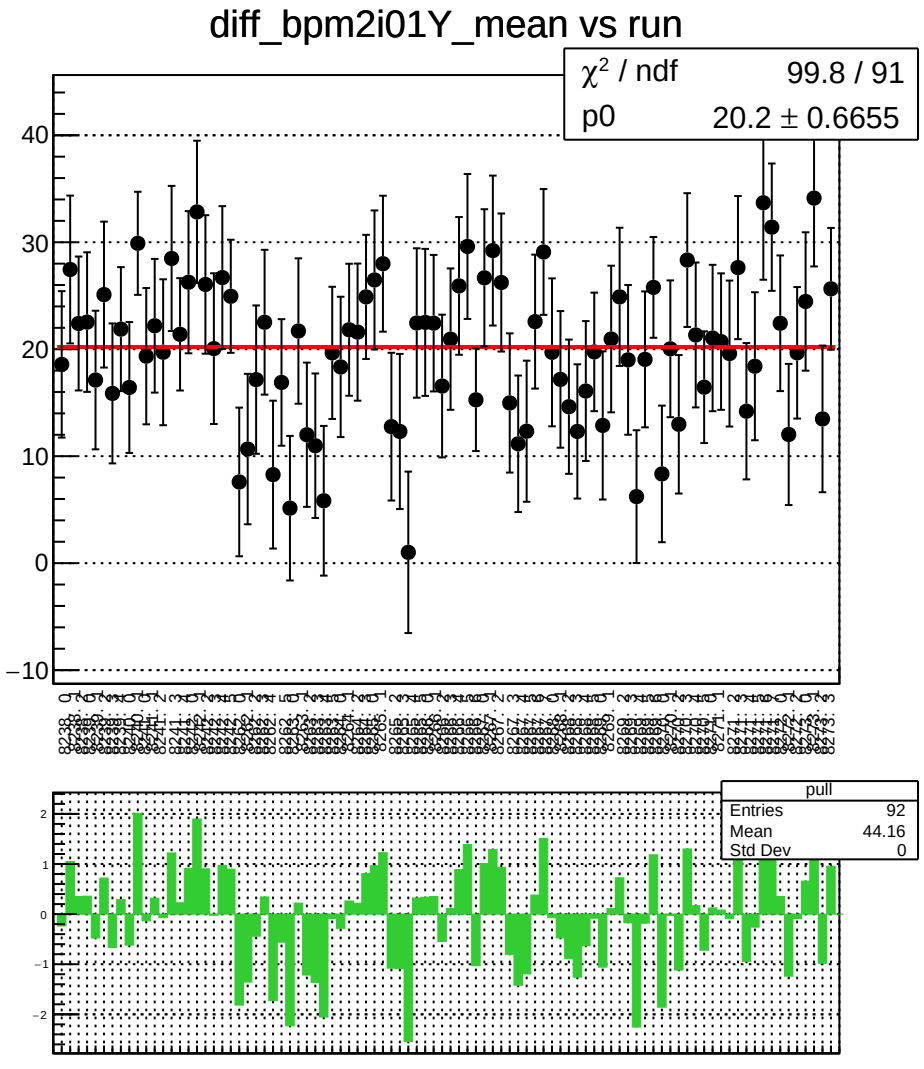

pull1D
Entries 92
Mean 0.03612
Std Dev 1.264
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

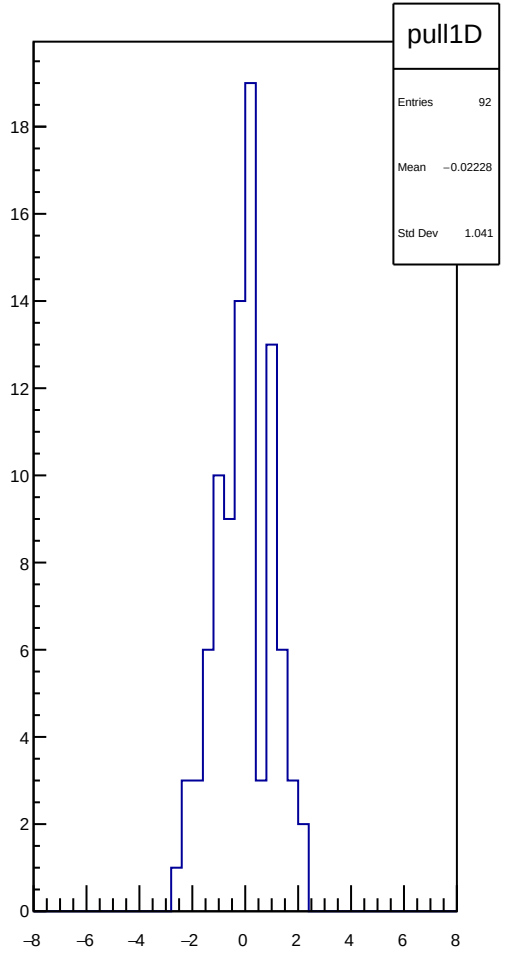

diff_bpm0r05Y_rms vs run
χ² / ndf 4.035e+04 / 91
p0 3156 ± 2.391
5500
5000
4500
4000
3500
3000
2500

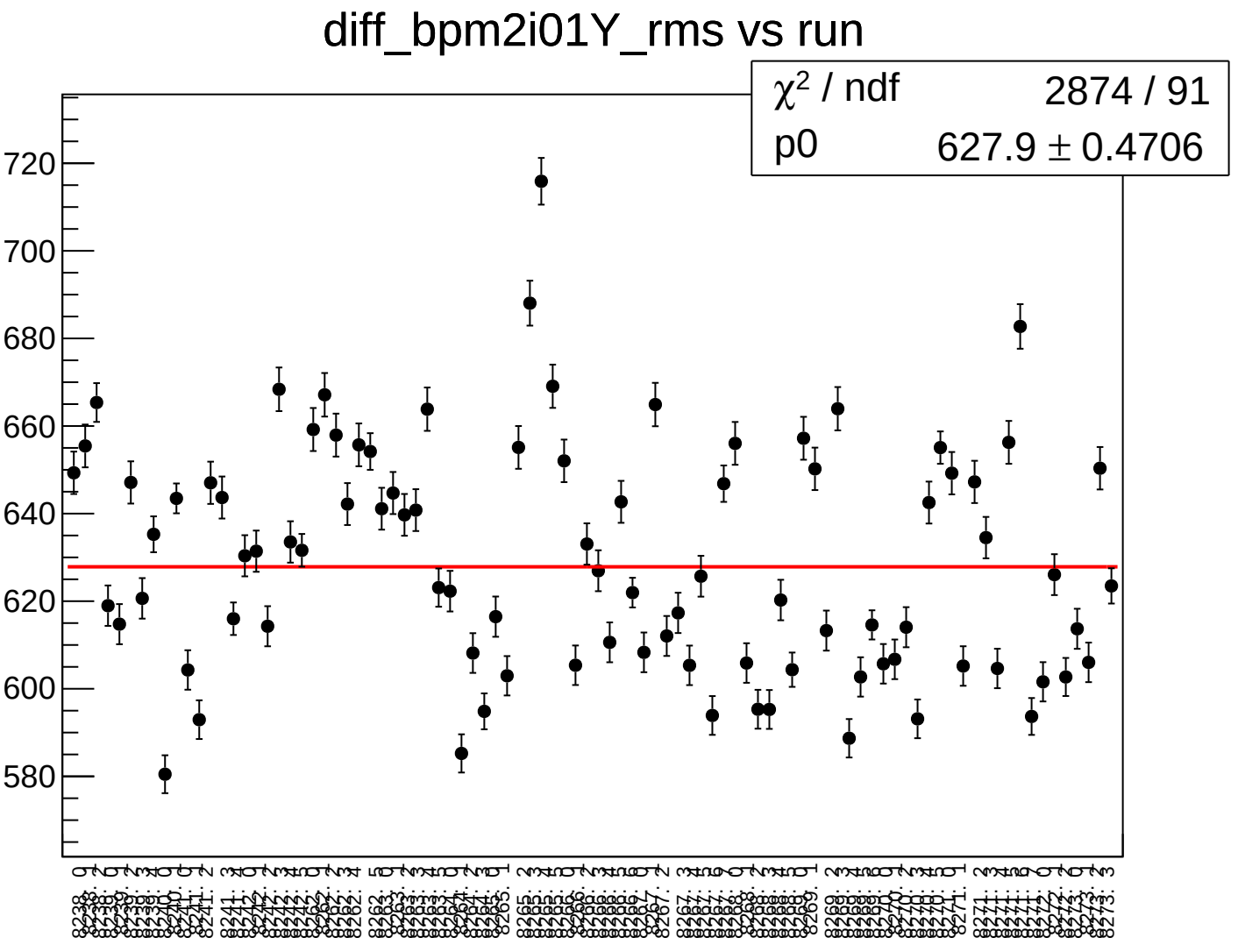

diff_bpm2i01X_mean vs run
χ² / ndf 111.4 / 91
p0 0.3797 ± 0.5511
pull
Entries 92
Mean −274
Std Dev 0

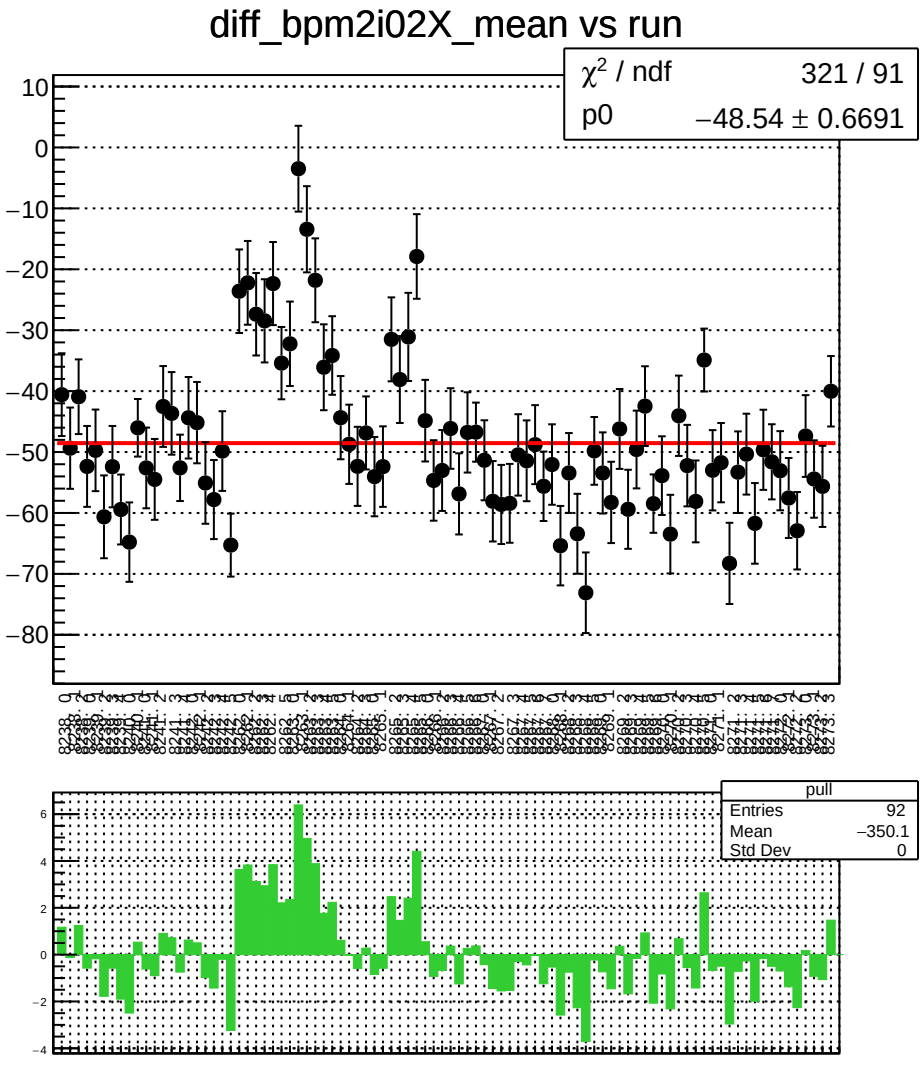

pull1D
Entries 92
Mean 0.01745
Std Dev 1.1

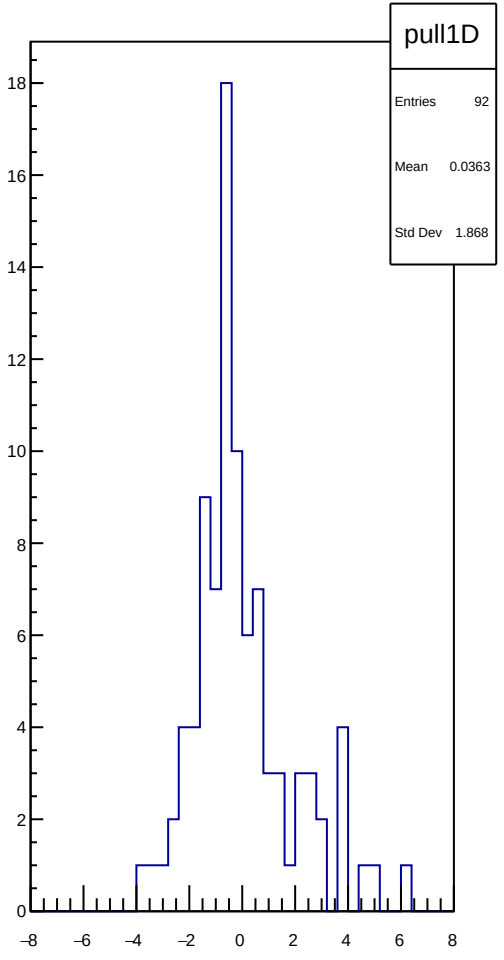

diff_bpm2i01X_rms vs run
χ² / ndf 1601 / 91
p0 520.1 ± 0.3897
580
570
560
550
540
530
520
510
500

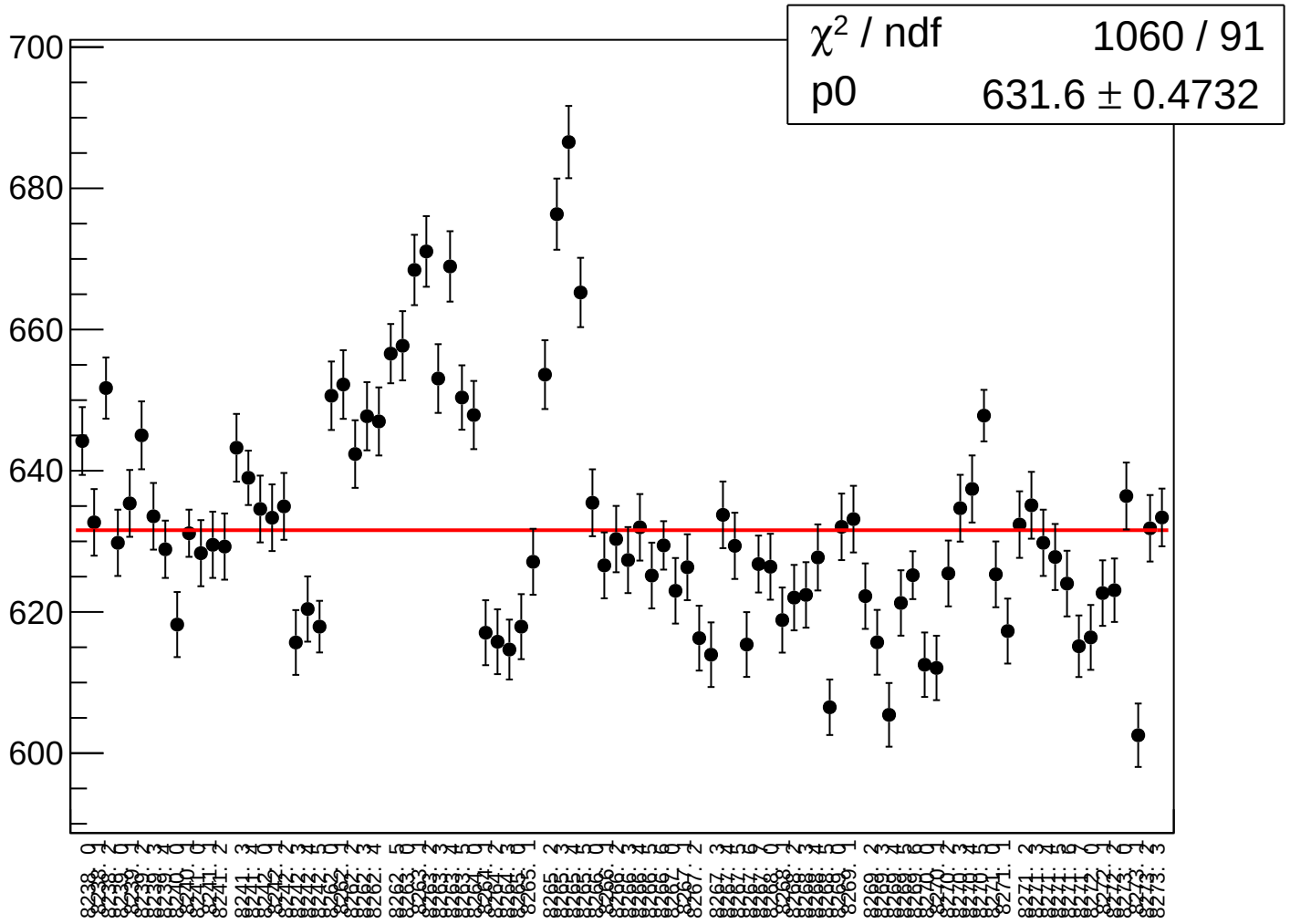

diff_bpm2i01Y_mean vs run
χ² / ndf 99.8 / 91
p0 20.2 ± 0.6655
pull
Entries 92
Mean 44.16
Std Dev 0

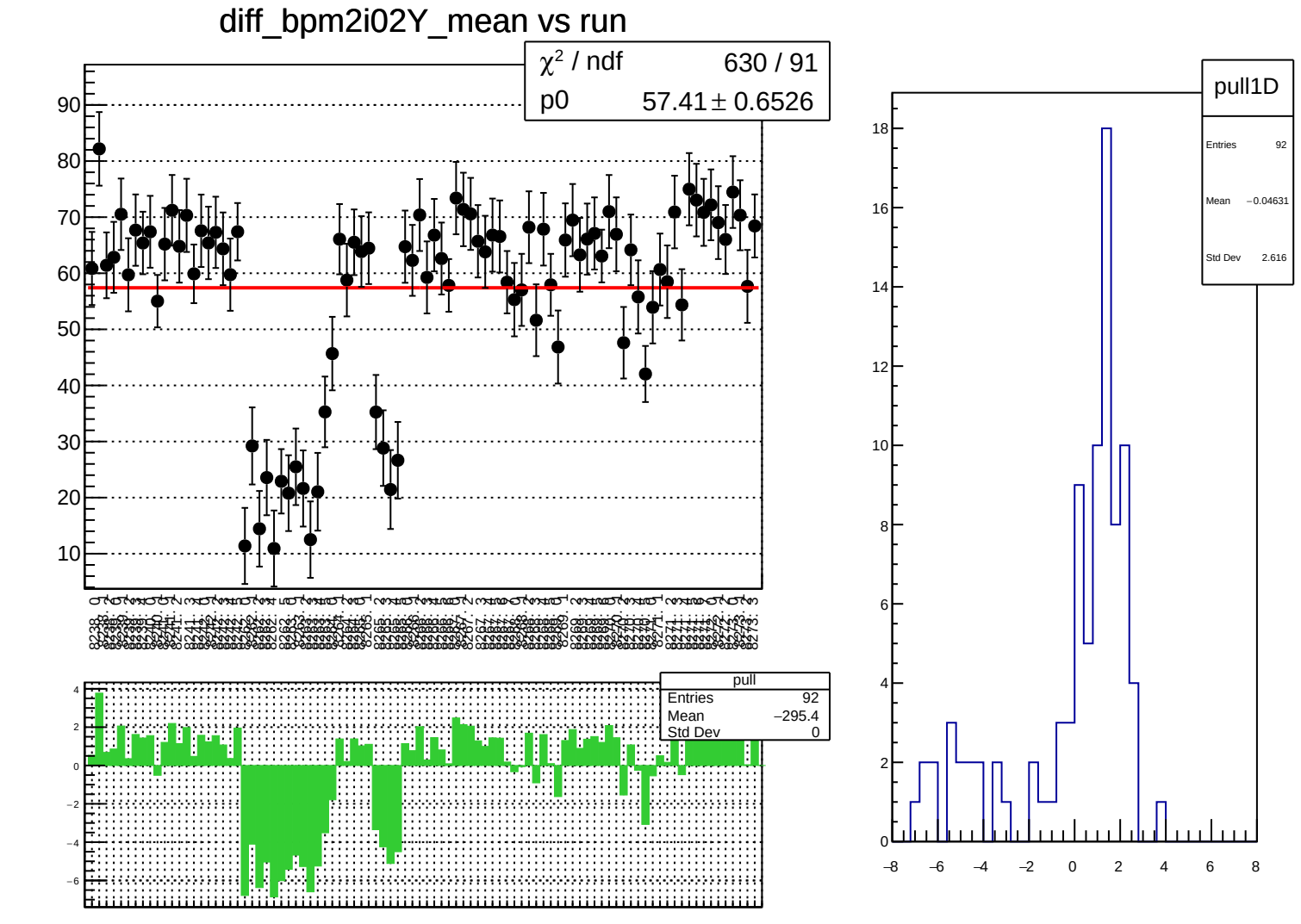

pull1D
Entries 92
Mean −0.02228
Std Dev 1.041

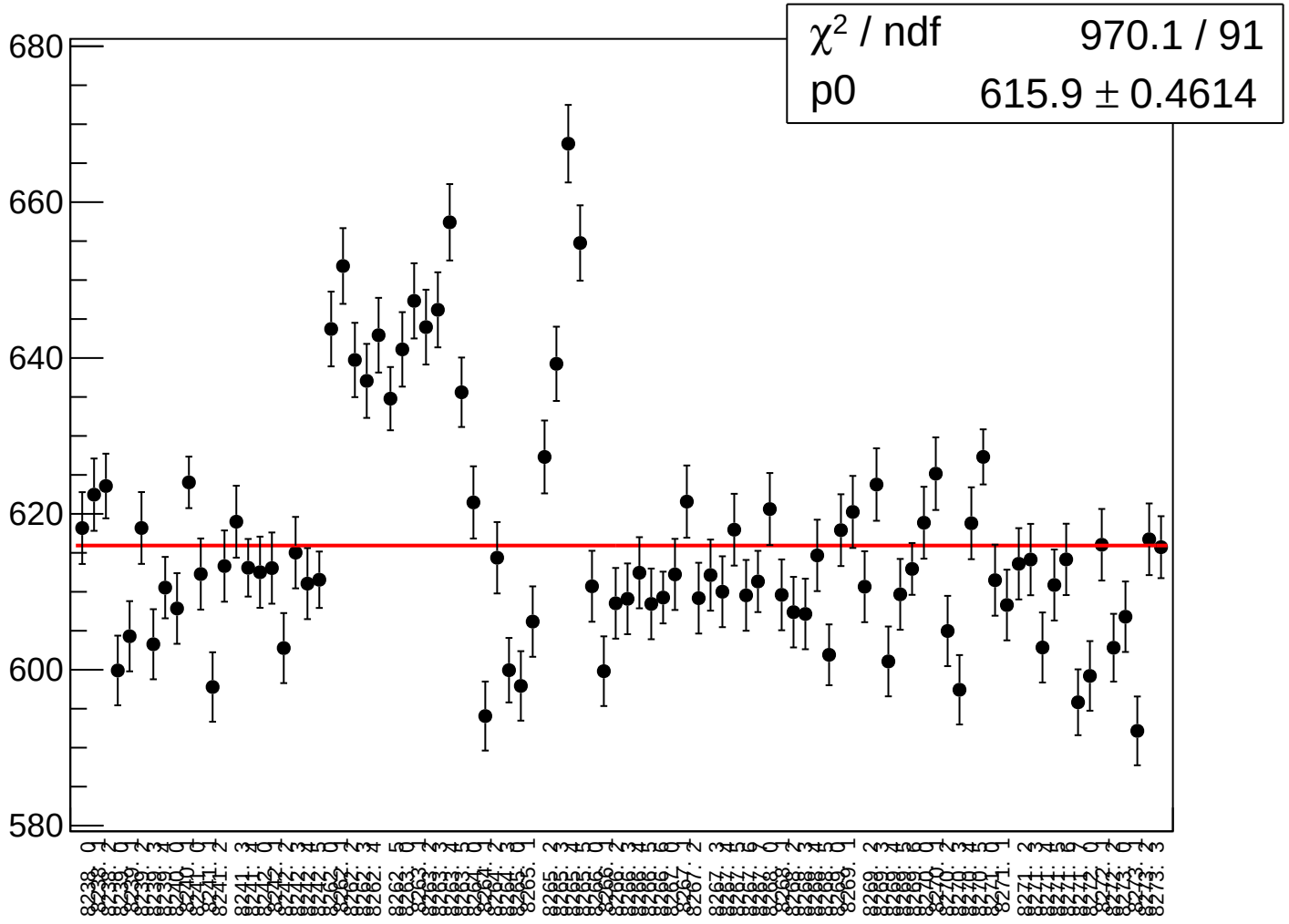

diff_bpm2i01Y_rms vs run
χ² / ndf 2874 / 91
p0 627.9 ± 0.4706
720
700
680
660
640
620
600
580

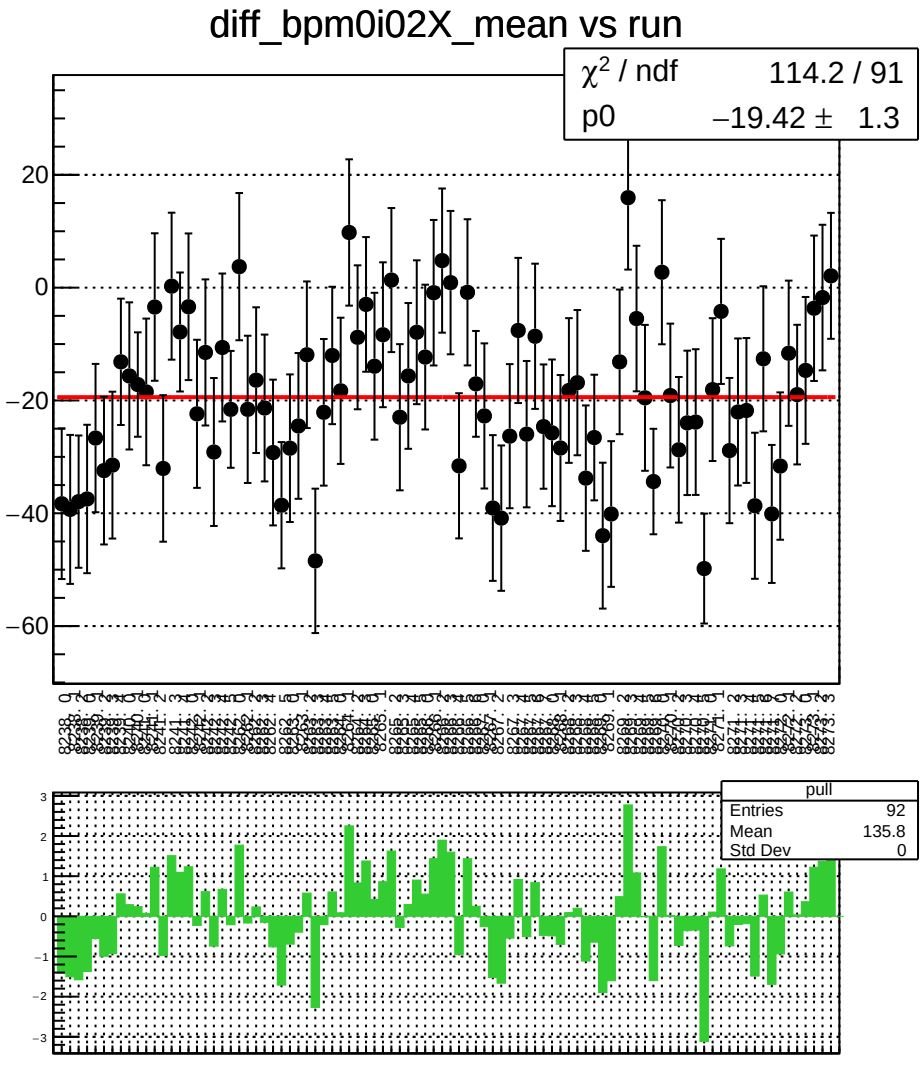

diff_bpm2i02X_mean vs run
χ² / ndf 321 / 91
p0 −48.54 ± 0.6691
pull
Entries 92
Mean −350.1
Std Dev 0

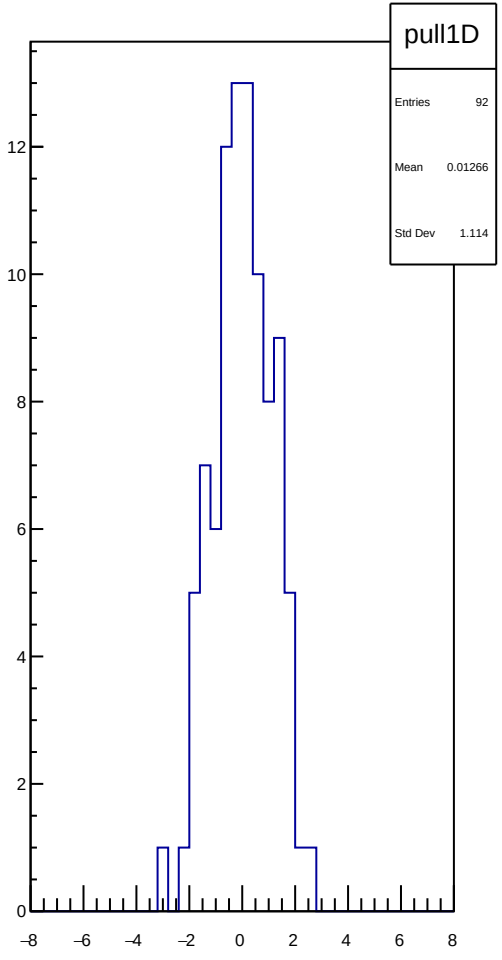

pull1D
Entries 92
Mean 0.0363
Std Dev 1.868

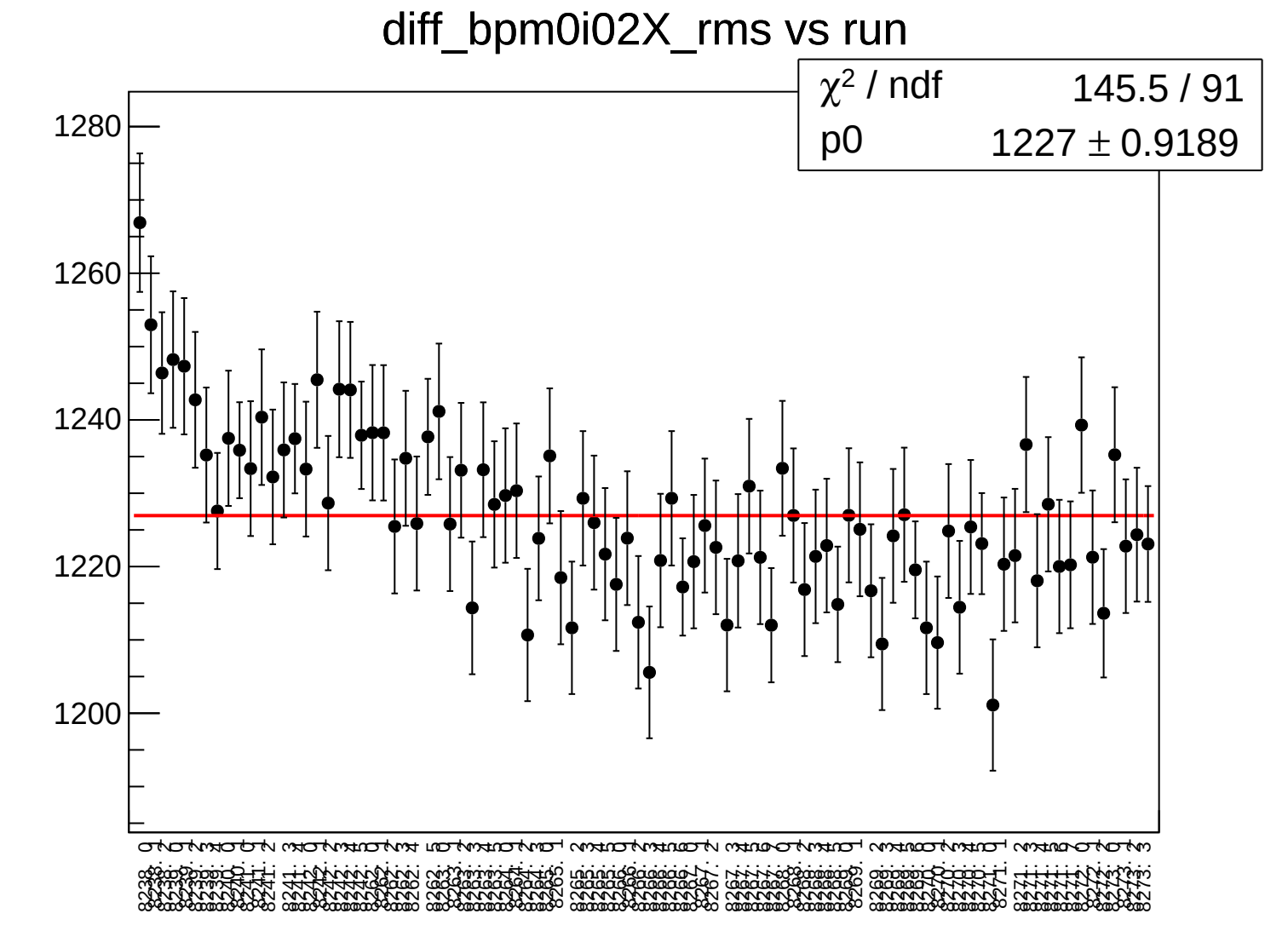

diff_bpm2i02X_rms vs run
χ² / ndf 1060 / 91
p0 631.6 ± 0.4732
700
680
660
640
620
600

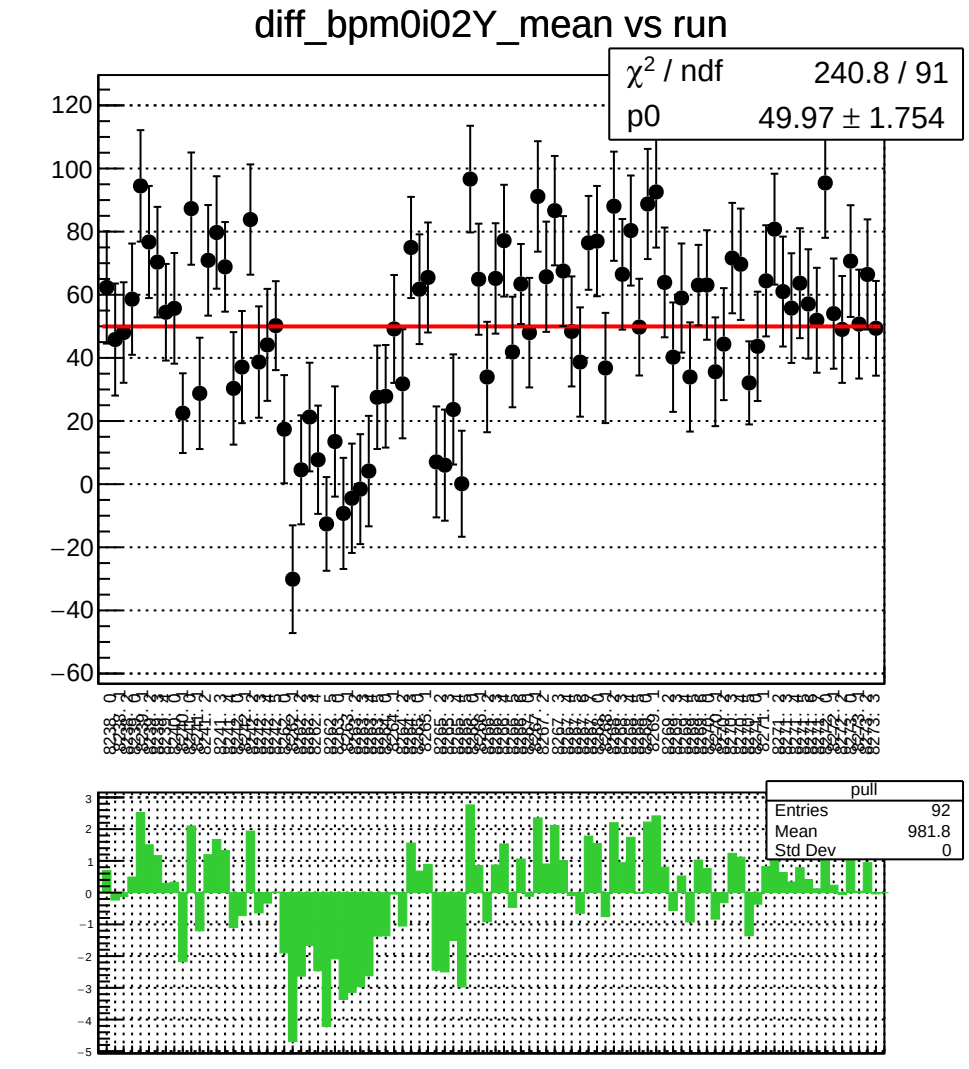

diff_bpm2i02Y_mean vs run
χ² / ndf 630 / 91
p0 57.41 ± 0.6526
pull
Entries 92
Mean −295.4
Std Dev 0
pull1D
Entries 92
Mean −0.04631
Std Dev 2.616

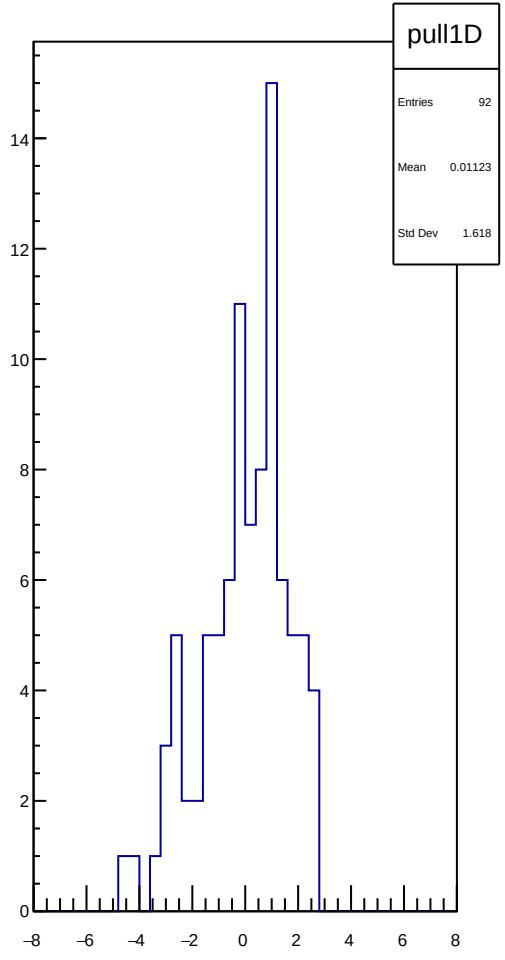

diff_bpm2i02Y_rms vs run
χ² / ndf 970.1 / 91
p0 615.9 ± 0.4614
680
660
640
620
600
580

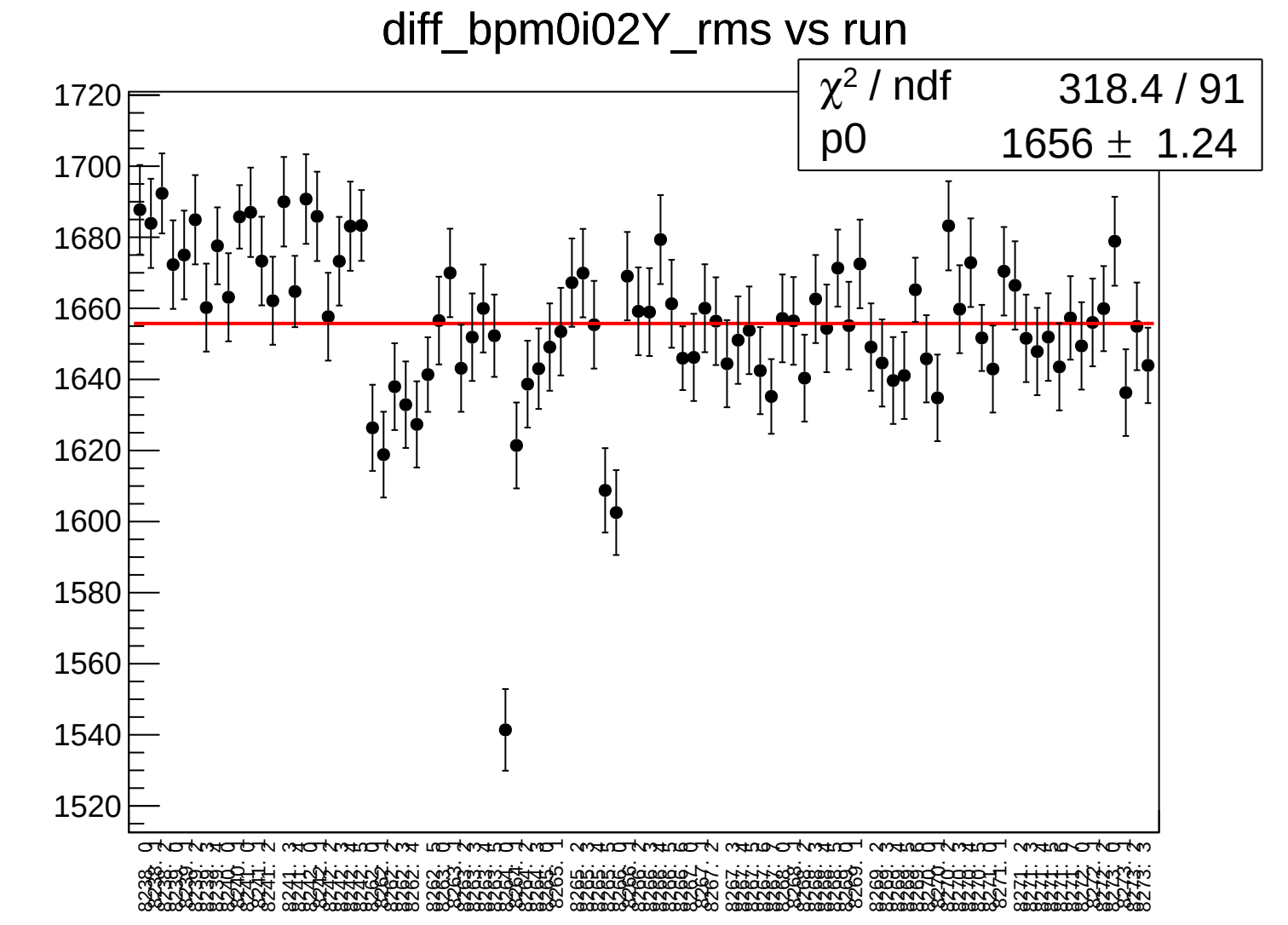

diff_bpm0i02X_mean vs run
$\chi^2$ / ndf 114.2 / 91
p0 −19.42 ± 1.3
20
0
−20
−40
−60
pull
Entries 92
Mean 135.8
Std Dev 0
3
2
1
0
−1
−2
−3

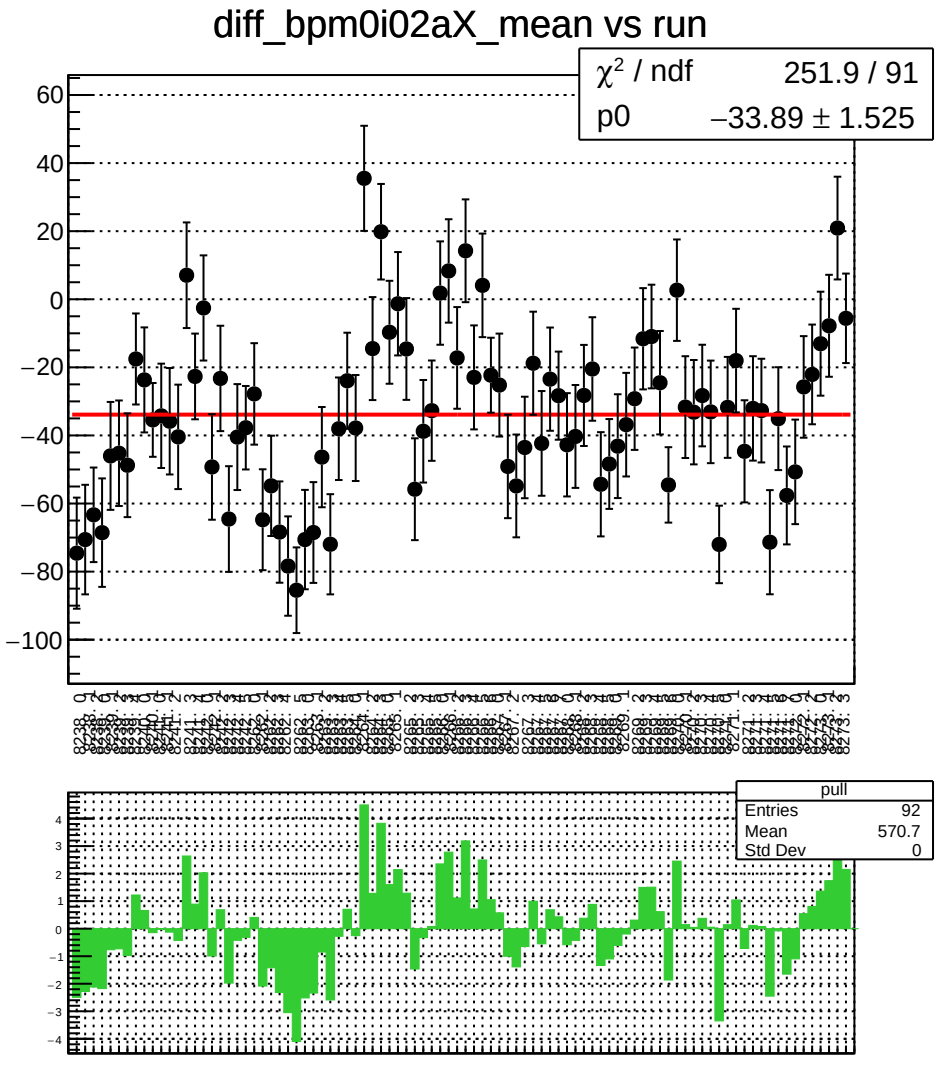

pull1D
Entries 92
Mean 0.01266
Std Dev 1.114
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

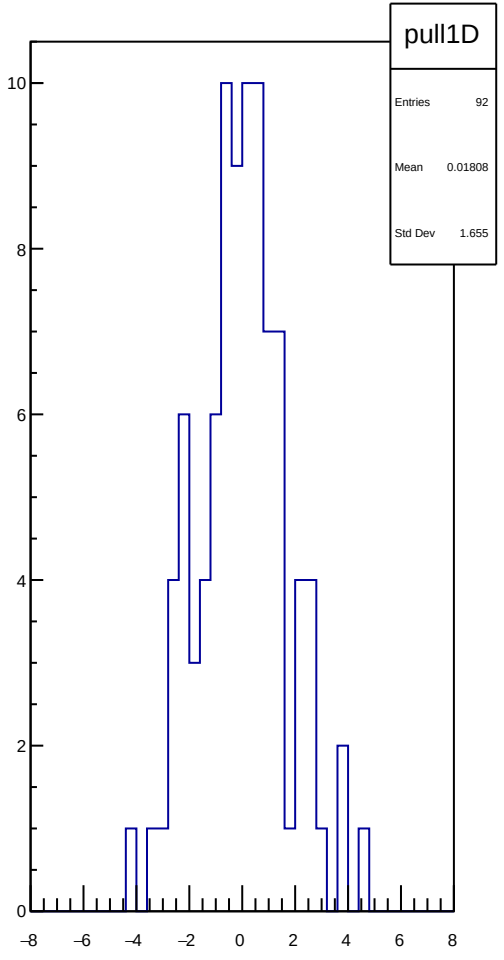

diff_bpm0i02X_rms vs run
χ² / ndf 145.5 / 91
p0 1227 ± 0.9189
1280
1260
1240
1220
1200

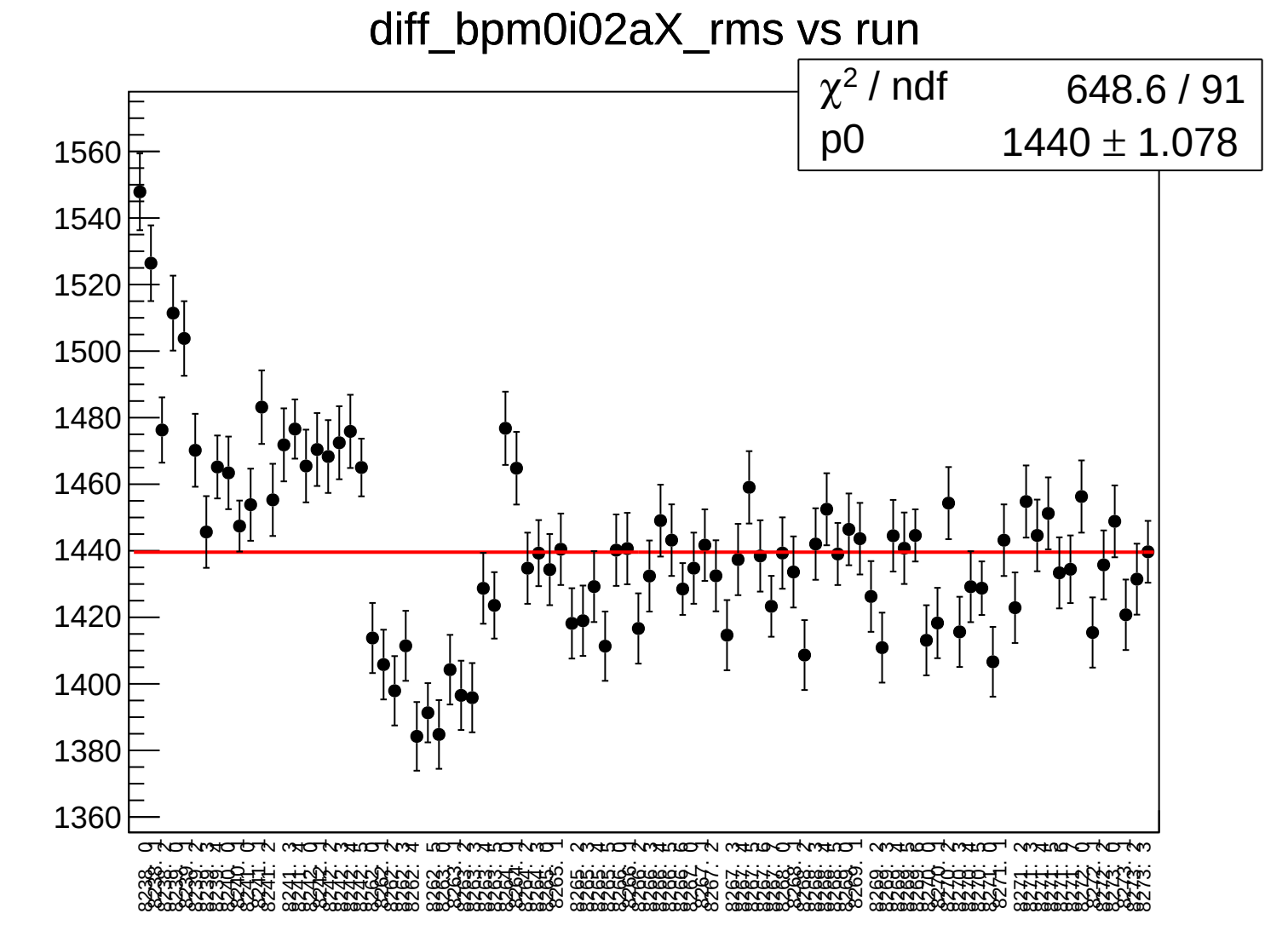

diff_bpm0i02Y_mean vs run
χ² / ndf 240.8 / 91
p0 49.97 ± 1.754
pull
Entries 92
Mean 981.8
Std Dev 0

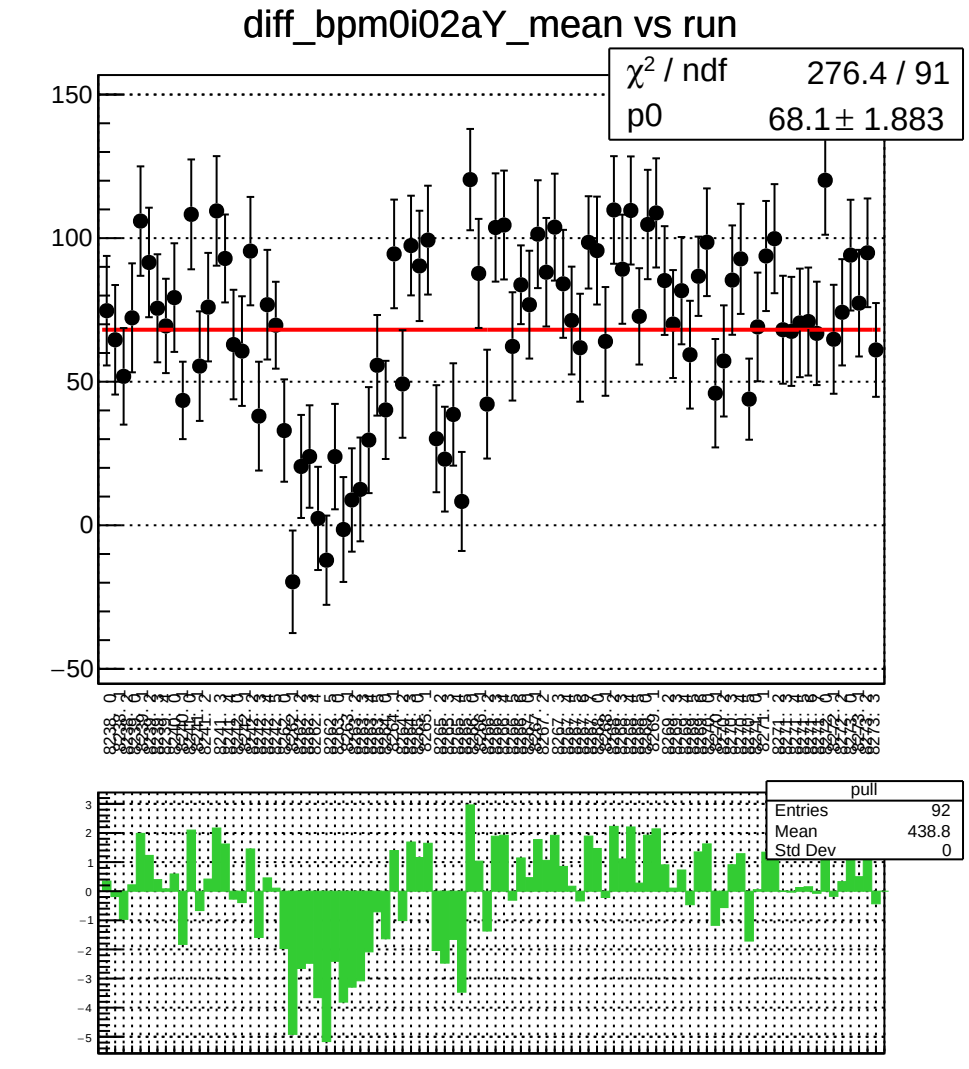

pull1D
Entries 92
Mean 0.01123
Std Dev 1.618

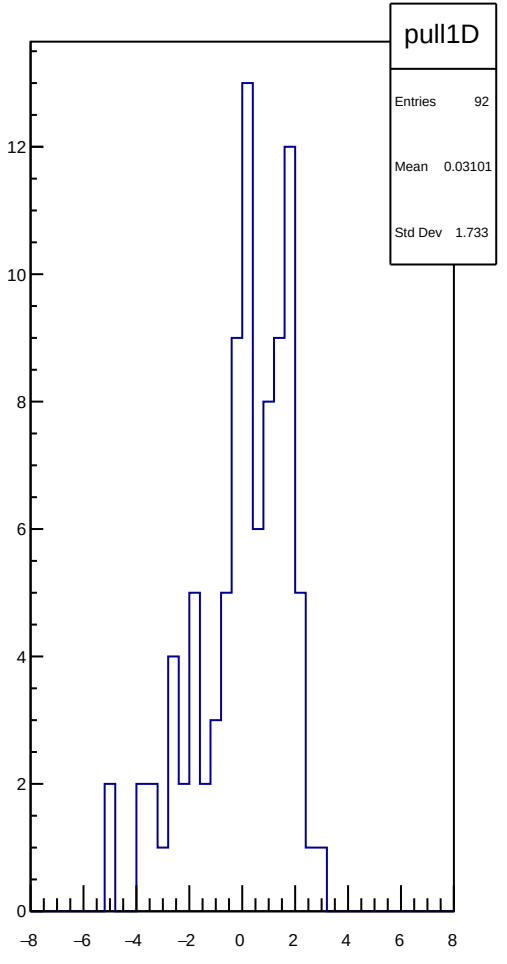

diff_bpm0i02Y_rms vs run
χ² / ndf 318.4 / 91
p0 1656 ± 1.24
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520

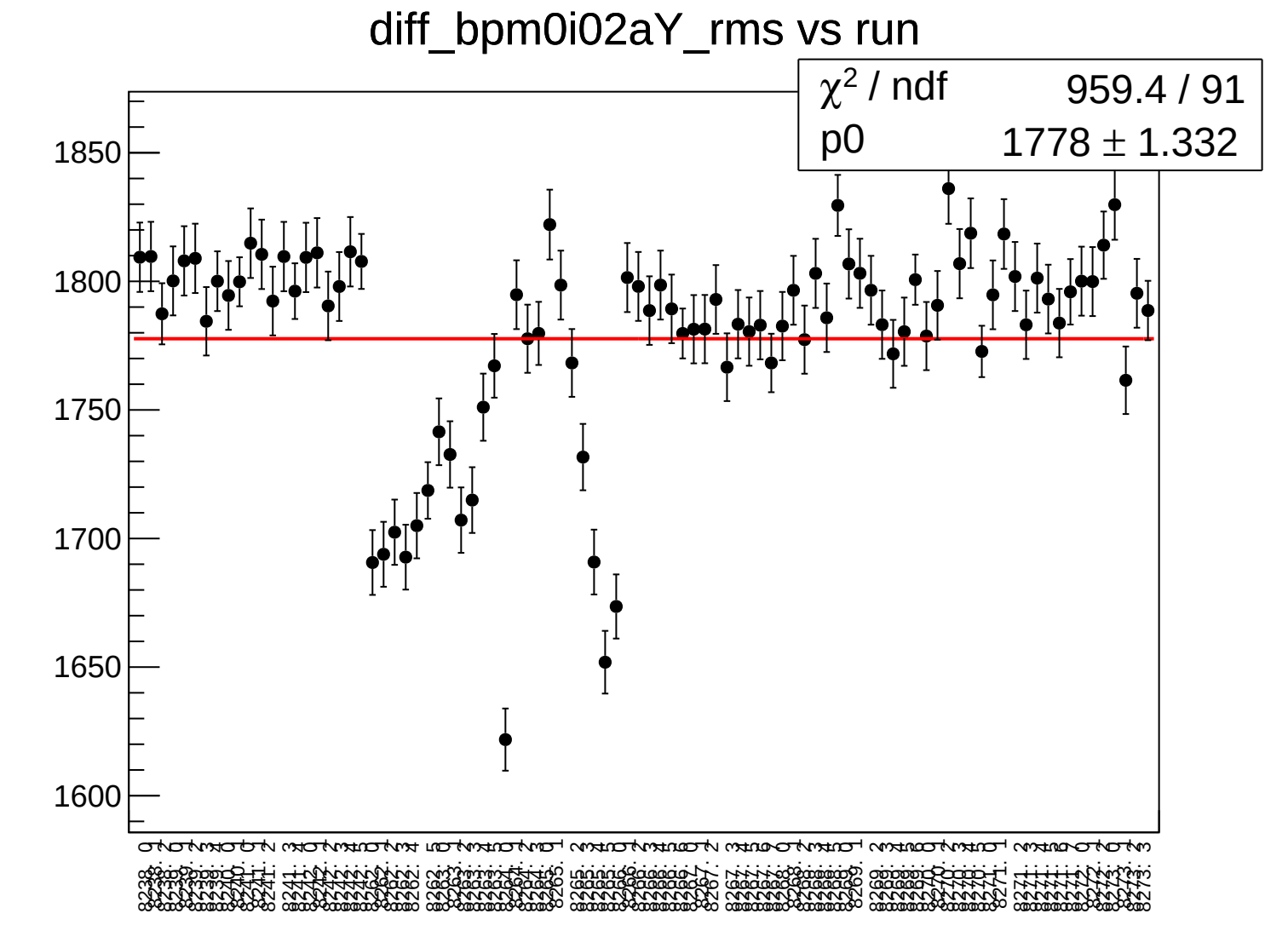

diff_bpm0i02aX_mean vs run
χ² / ndf 251.9 / 91
p0 −33.89 ± 1.525
pull
Entries 92
Mean 570.7
Std Dev 0

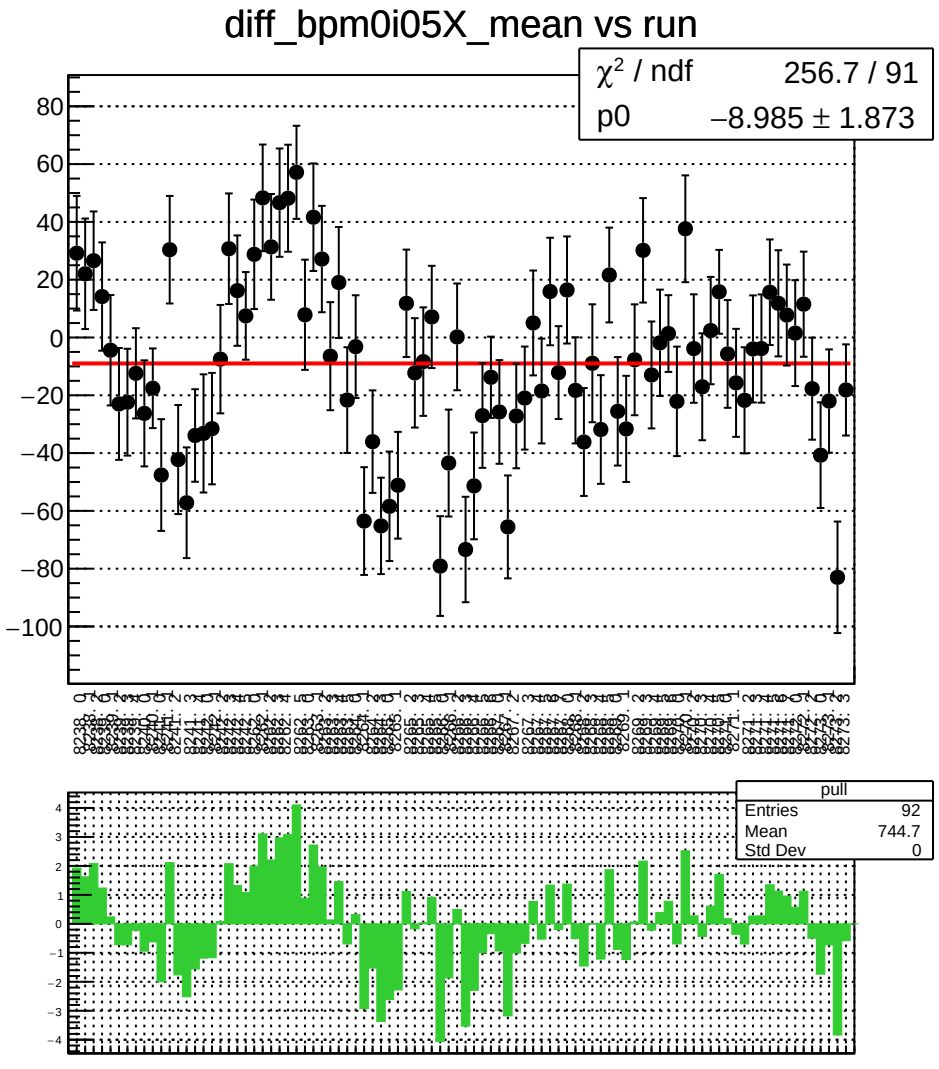

pull1D
Entries 92
Mean 0.01808
Std Dev 1.655

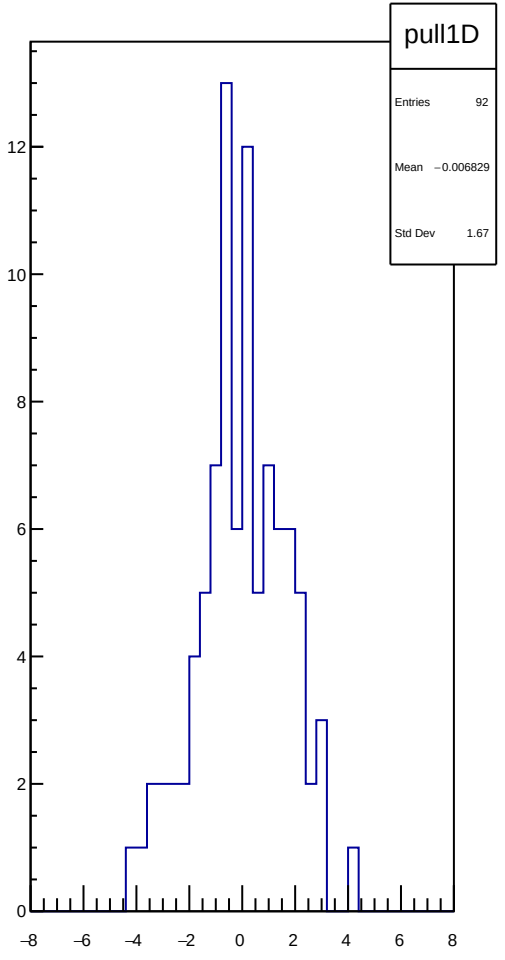

diff_bpm0i02aX_rms vs run
χ² / ndf 648.6 / 91
p0 1440 ± 1.078
1560
1540
1520
1500
1480
1460
1440
1420
1400
1380
1360

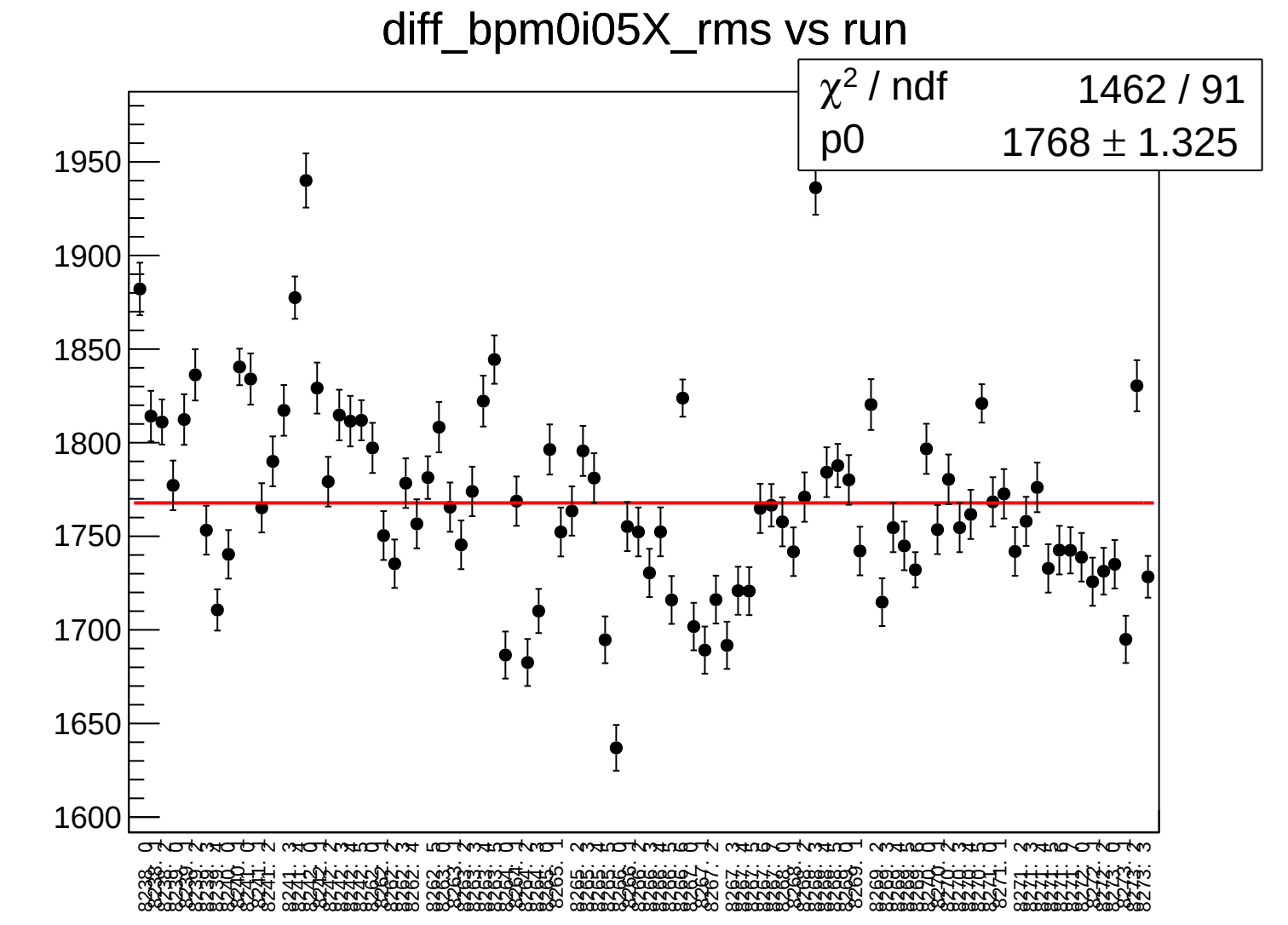

diff_bpm0i02aY_mean vs run
χ² / ndf 276.4 / 91
p0 68.1 ± 1.883
150
100
50
0
−50
pull
Entries 92
Mean 438.8
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5

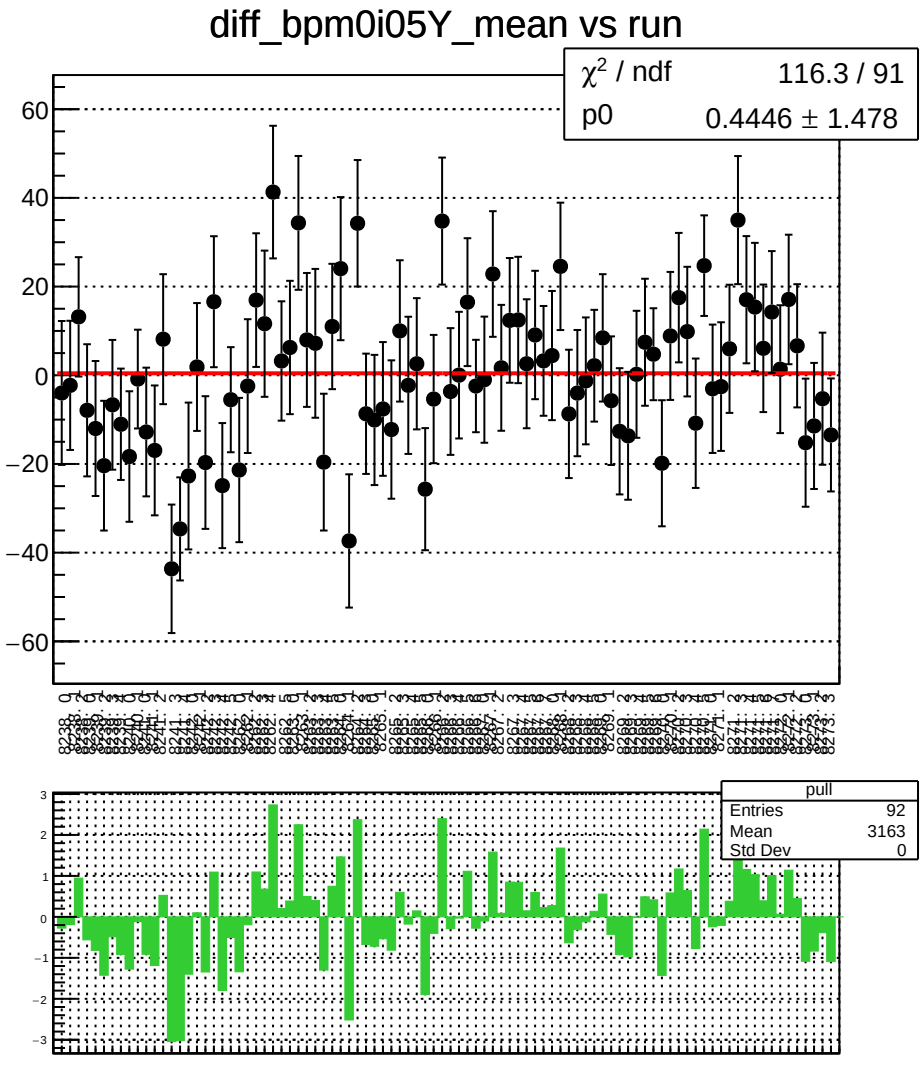

pull1D
Entries 92
Mean 0.03101
Std Dev 1.733
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

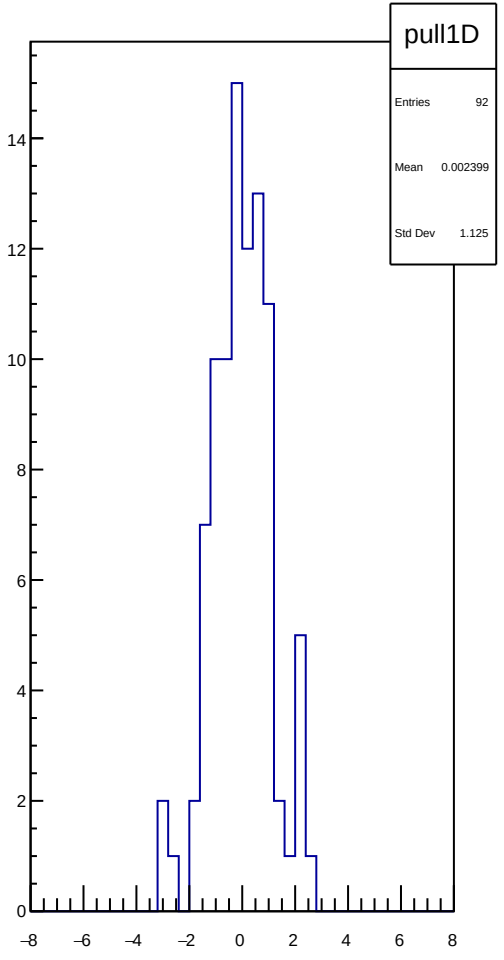

diff_bpm0i02aY_rms vs run
χ² / ndf 959.4 / 91
p0 1778 ± 1.332
1850
1800
1750
1700
1650
1600

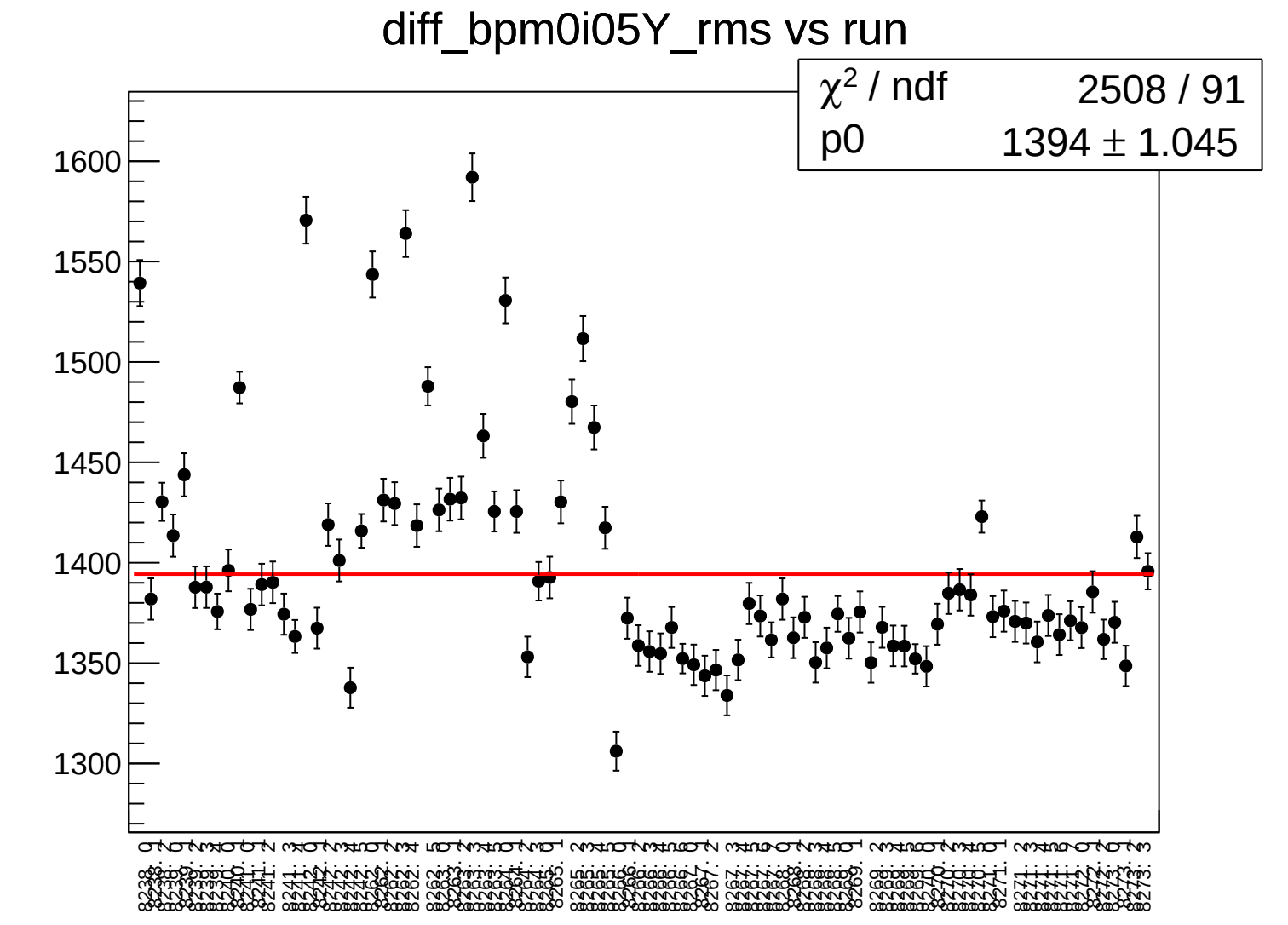

diff_bpm0i05X_mean vs run
χ² / ndf 256.7 / 91
p0 −8.985 ± 1.873
pull
Entries 92
Mean 744.7
Std Dev 0

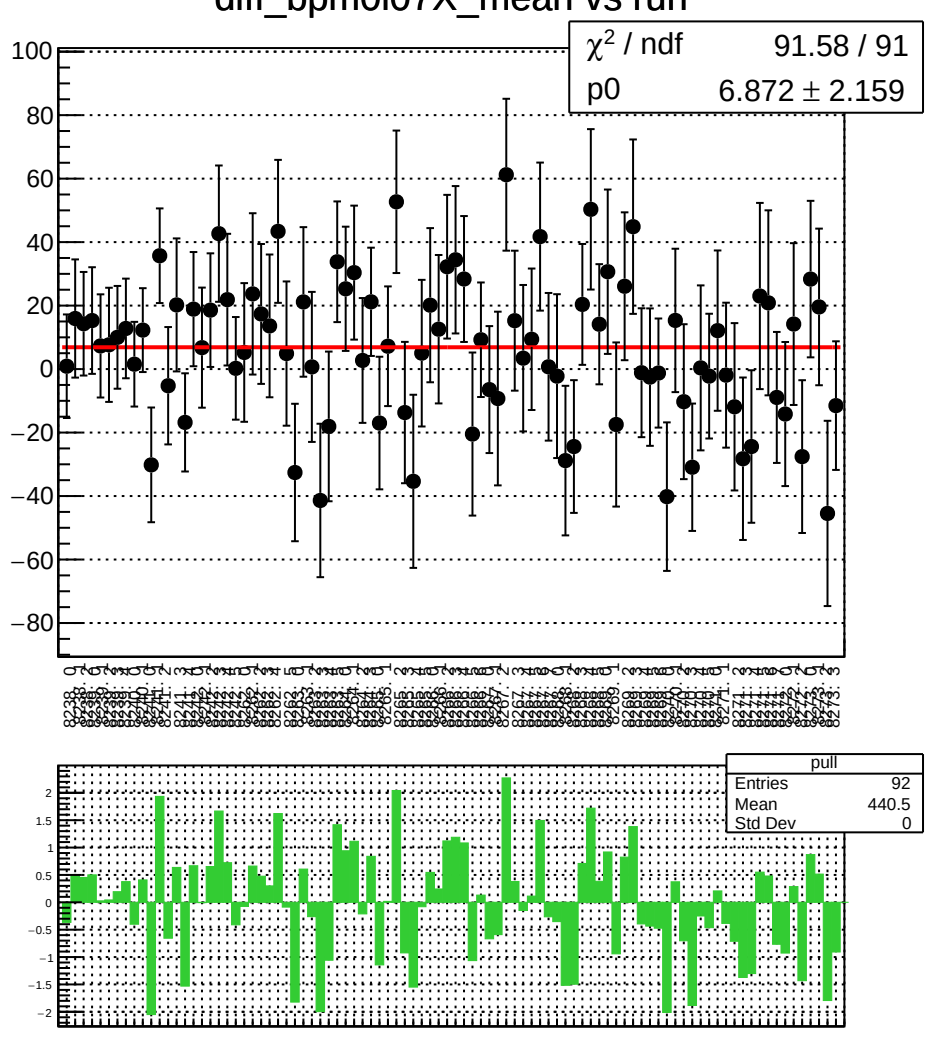

pull1D
Entries 92
Mean −0.006829
Std Dev 1.67

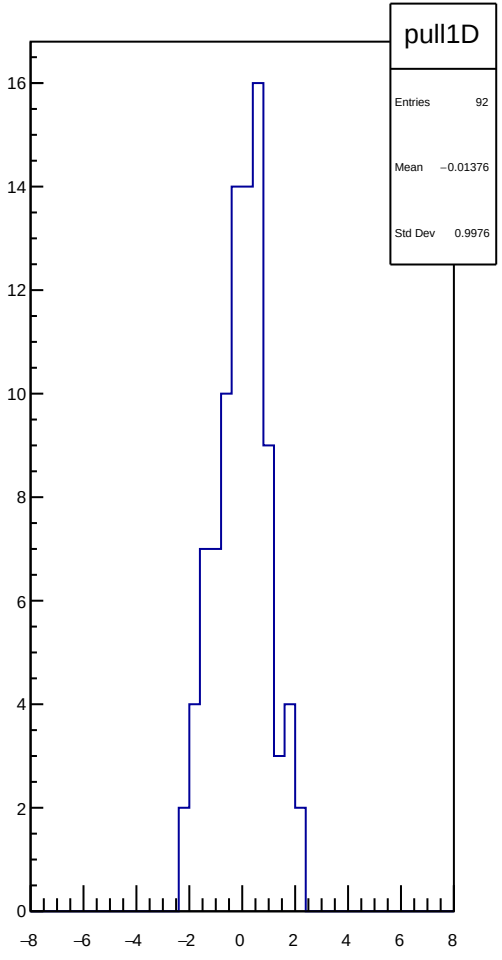

diff_bpm0i05X_rms vs run
χ² / ndf 1462 / 91
p0 1768 ± 1.325
1950
1900
1850
1800
1750
1700
1650
1600

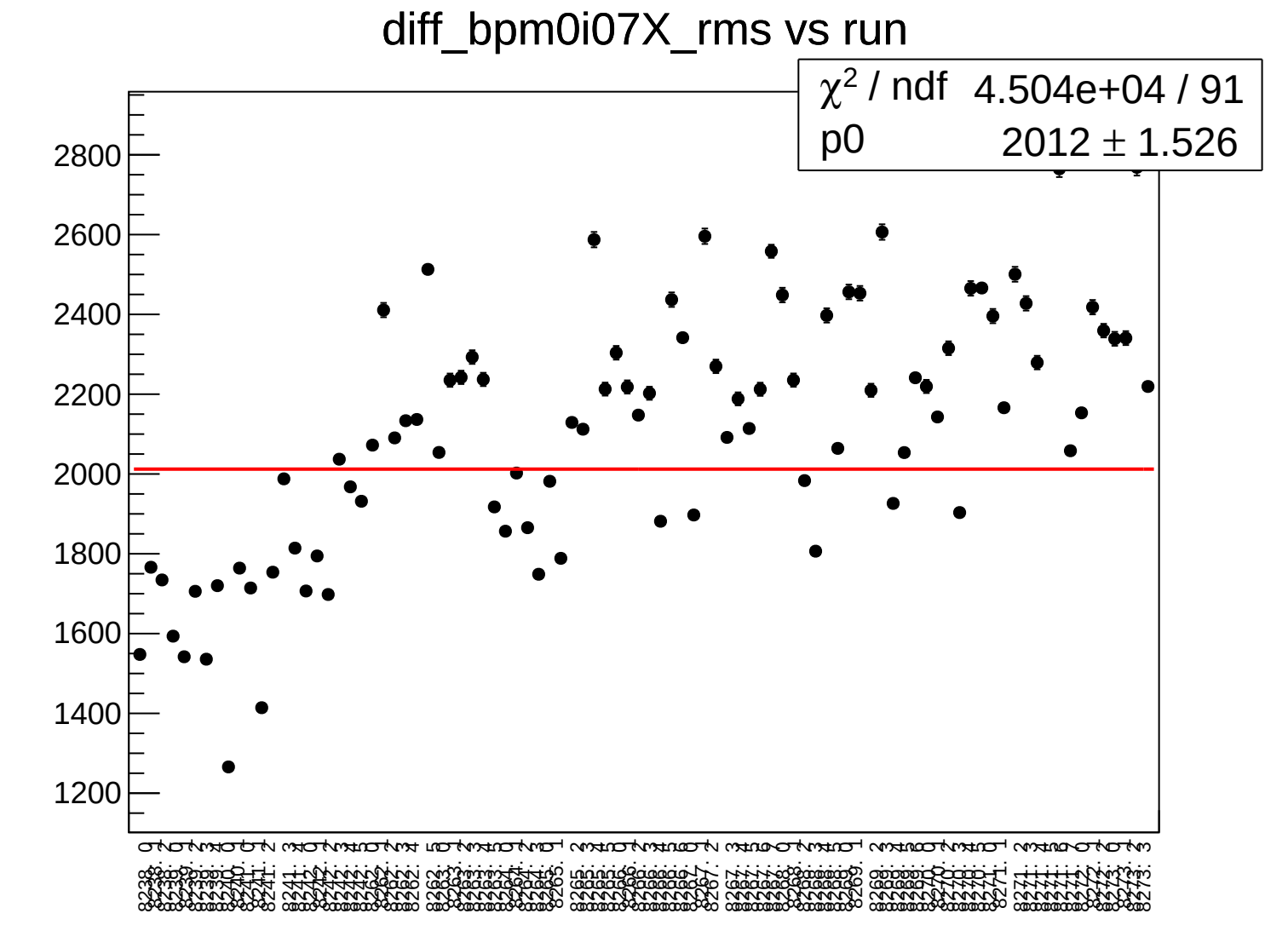

diff_bpm0i05Y_mean vs run
χ² / ndf 116.3 / 91
p0 0.4446 ± 1.478
pull
Entries 92
Mean 3163
Std Dev 0

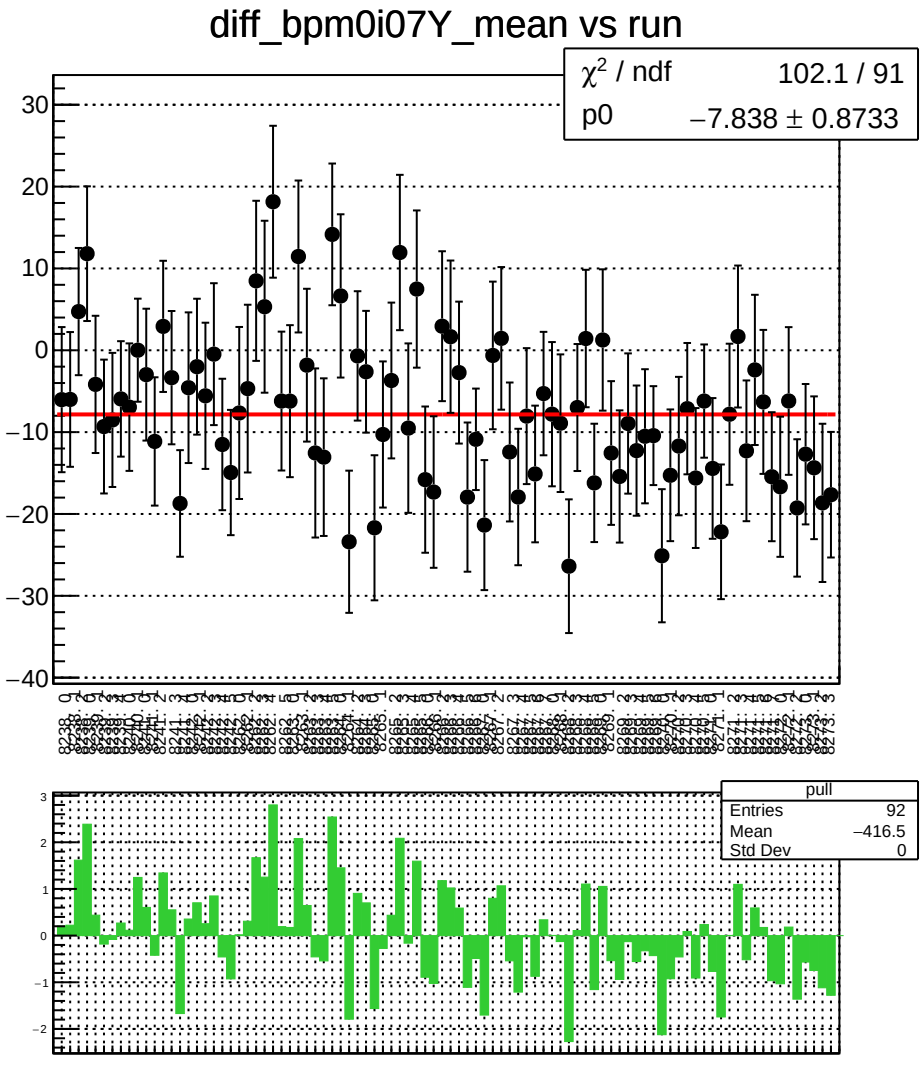

pull1D
Entries 92
Mean 0.002399
Std Dev 1.125

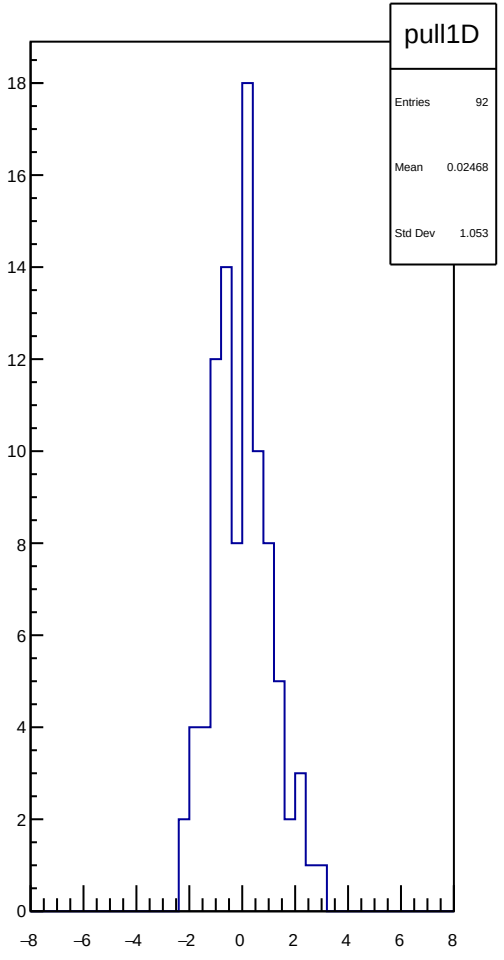

diff_bpm0i05Y_rms vs run
$\chi^2$ / ndf 2508 / 91
p0 1394 ± 1.045
1600
1550
1500
1450
1400
1350
1300

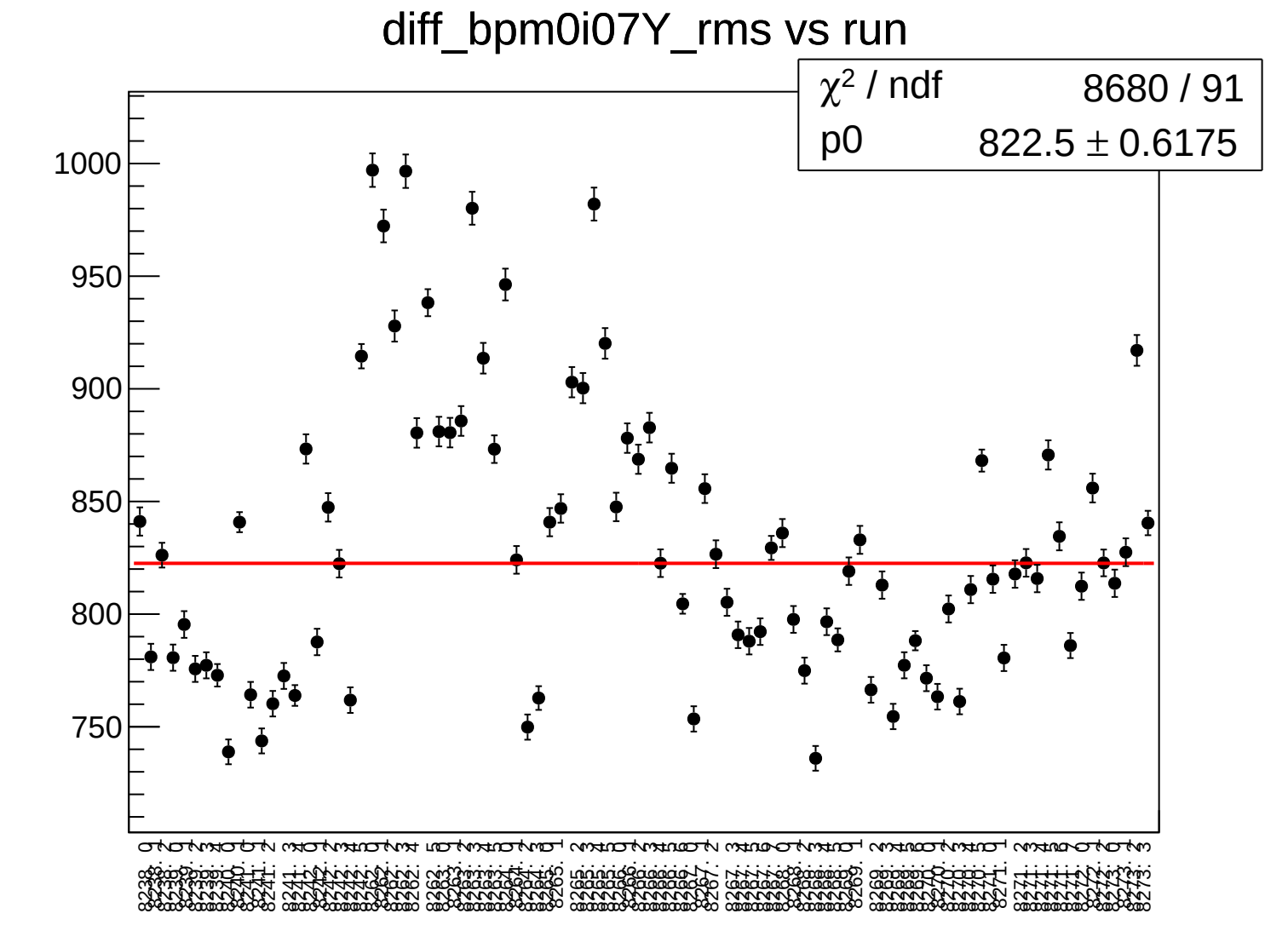

diff_bpm0i07X_mean vs run
$\chi^2$ / ndf 91.58 / 91
p0 6.872 ± 2.159
pull
Entries 92
Mean 440.5
Std Dev 0

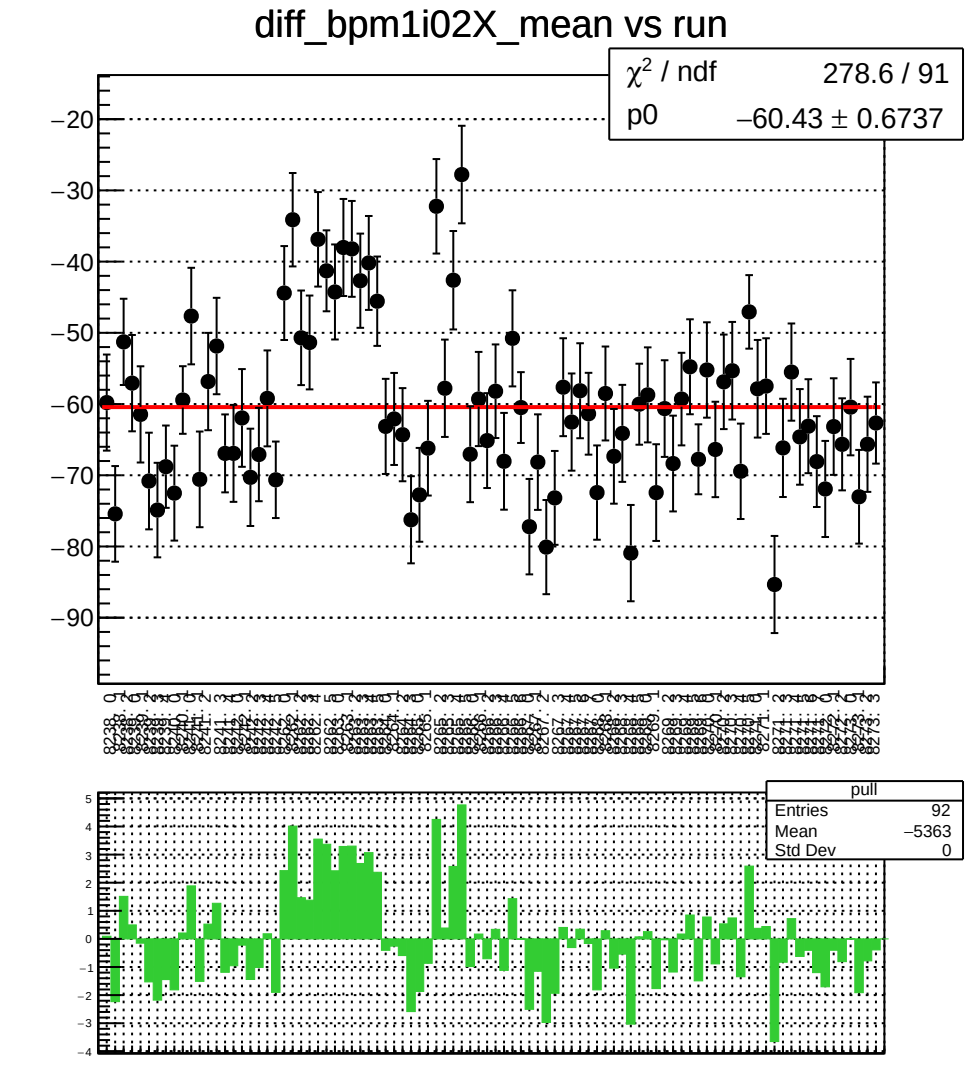

pull1D
Entries 92
Mean −0.01376
Std Dev 0.9976

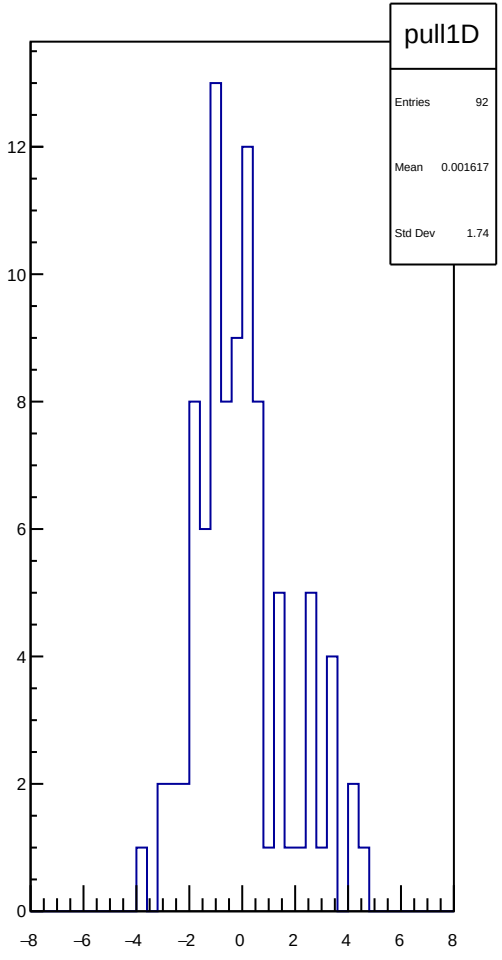

diff_bpm0i07X_rms vs run
χ² / ndf 4.504e+04 / 91
p0 2012 ± 1.526
2800
2600
2400
2200
2000
1800
1600
1400
1200

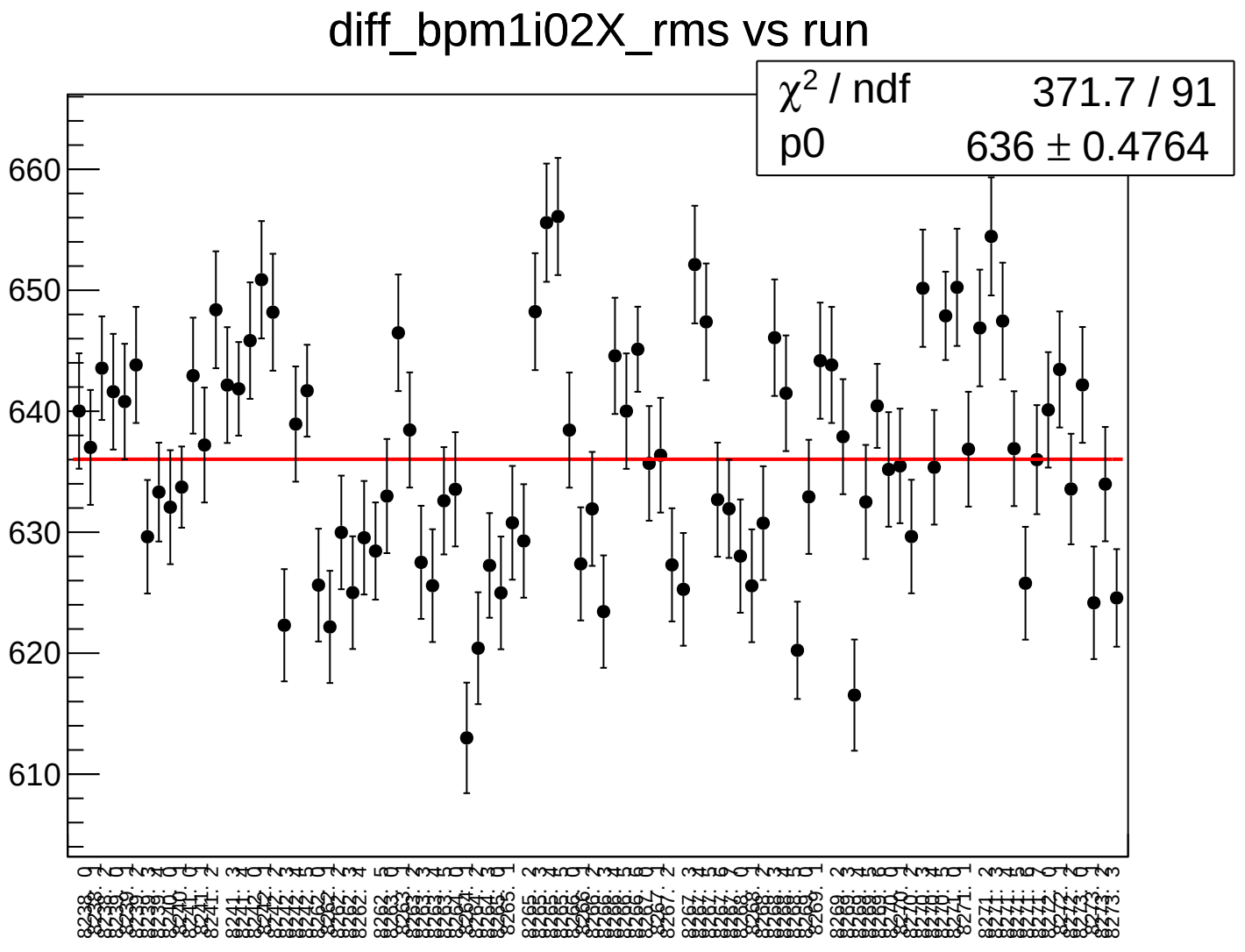

diff_bpm0i07Y_mean vs run
χ² / ndf 102.1 / 91
p0 −7.838 ± 0.8733
pull
Entries 92
Mean −416.5
Std Dev 0

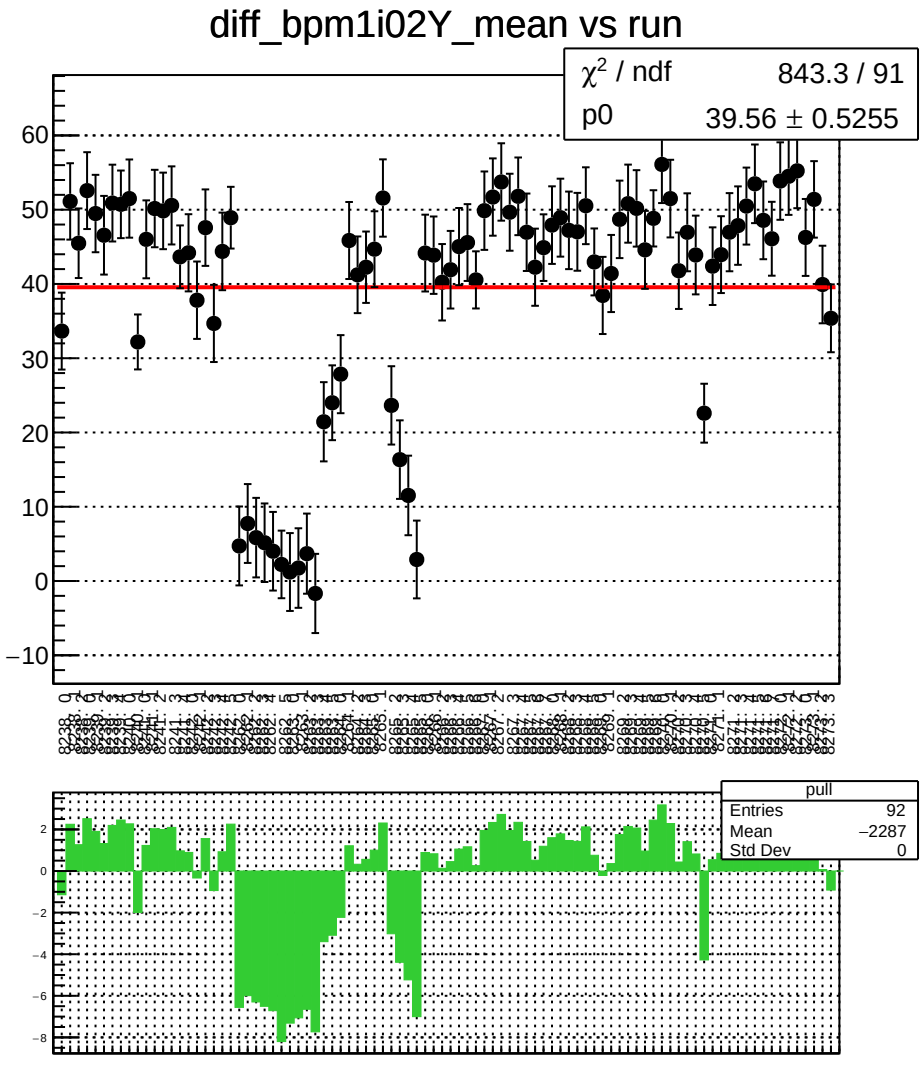

pull1D
Entries 92
Mean 0.02468
Std Dev 1.053

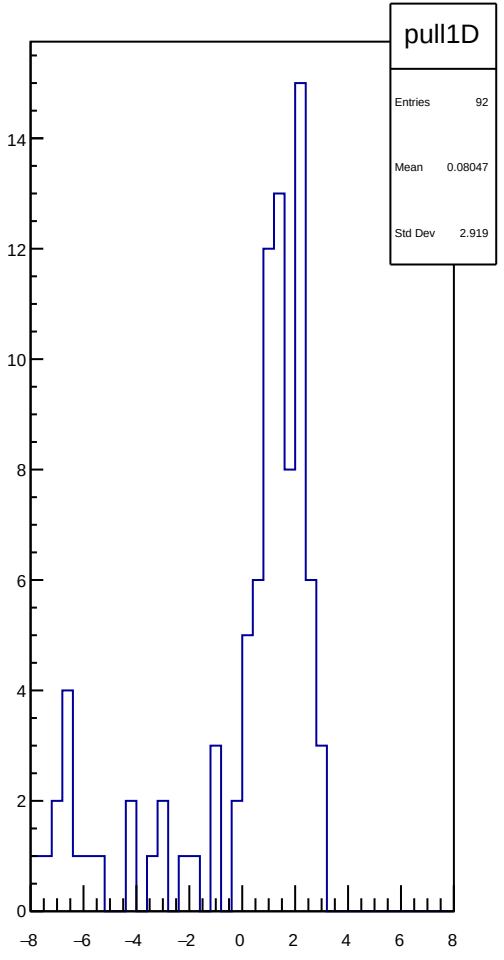

diff_bpm0i07Y_rms vs run
χ² / ndf 8680 / 91
p0 822.5 ± 0.6175
1000
950
900
850
800
750

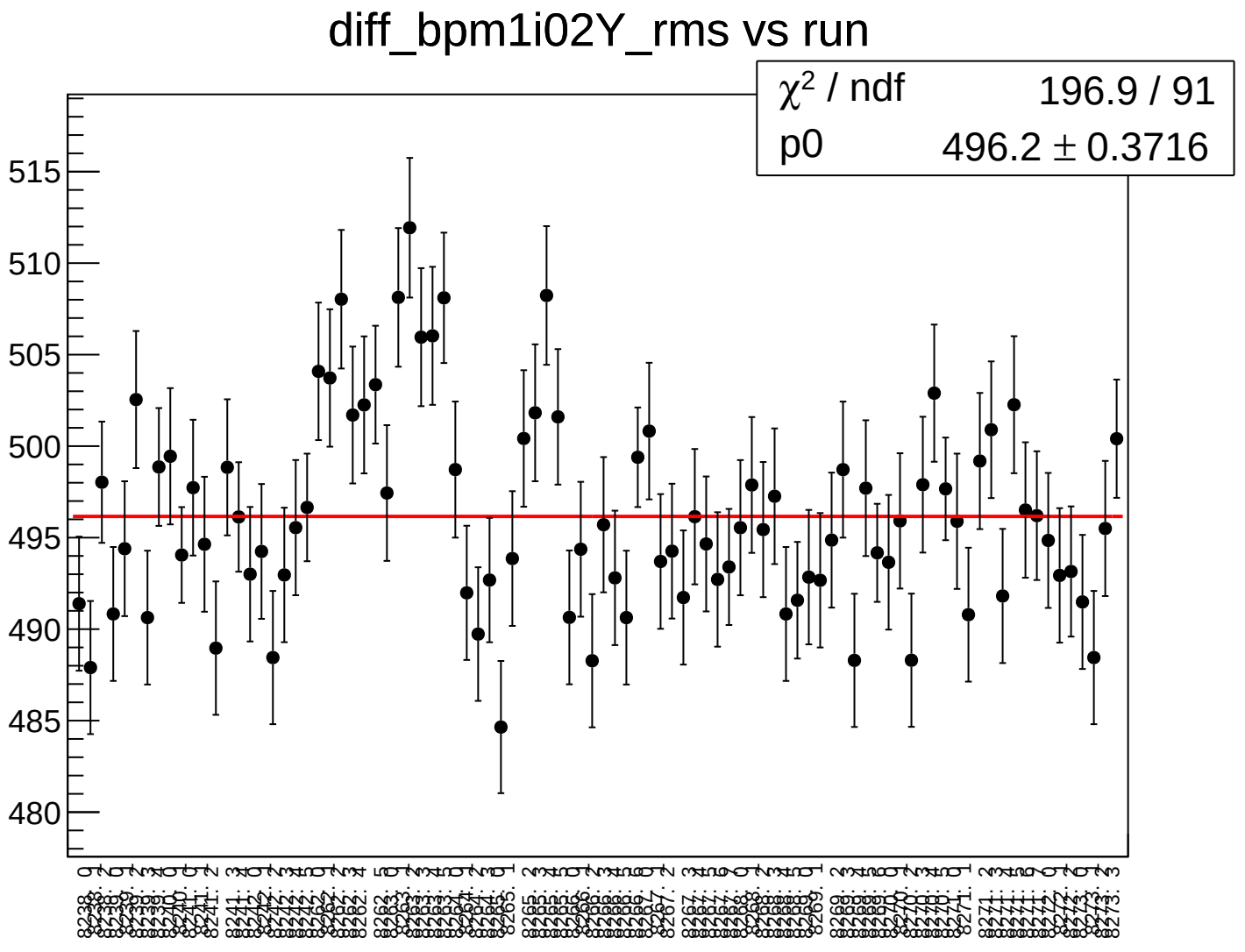

diff_bpm1i02X_mean vs run
χ² / ndf 278.6 / 91
p0 −60.43 ± 0.6737
pull
Entries 92
Mean −5363
Std Dev 0

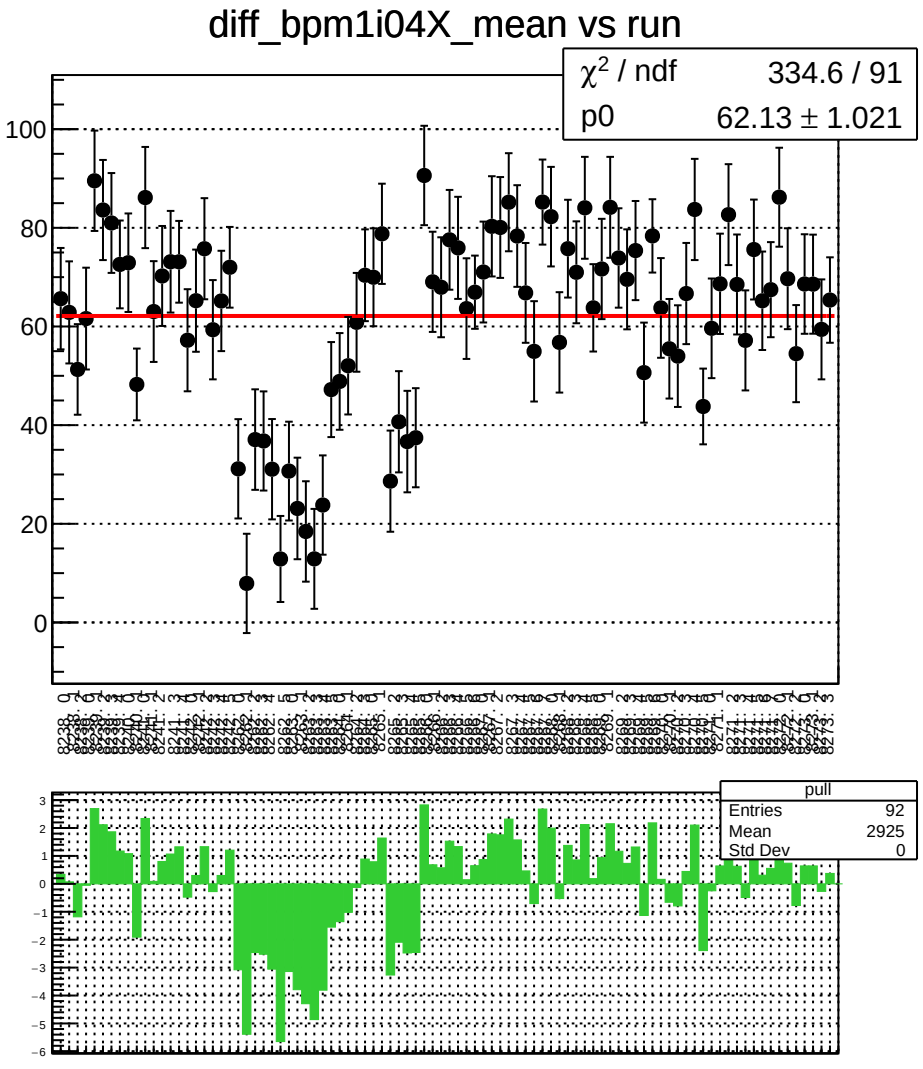

pull1D
Entries 92
Mean 0.001617
Std Dev 1.74

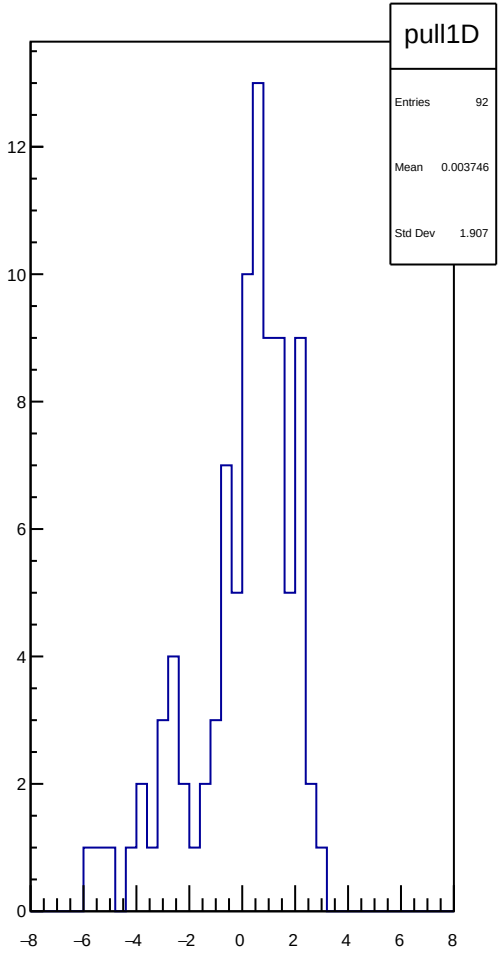

diff_bpm1i02X_rms vs run
$\chi^2$ / ndf 371.7 / 91
p0 636 ± 0.4764
660
650
640
630
620
610

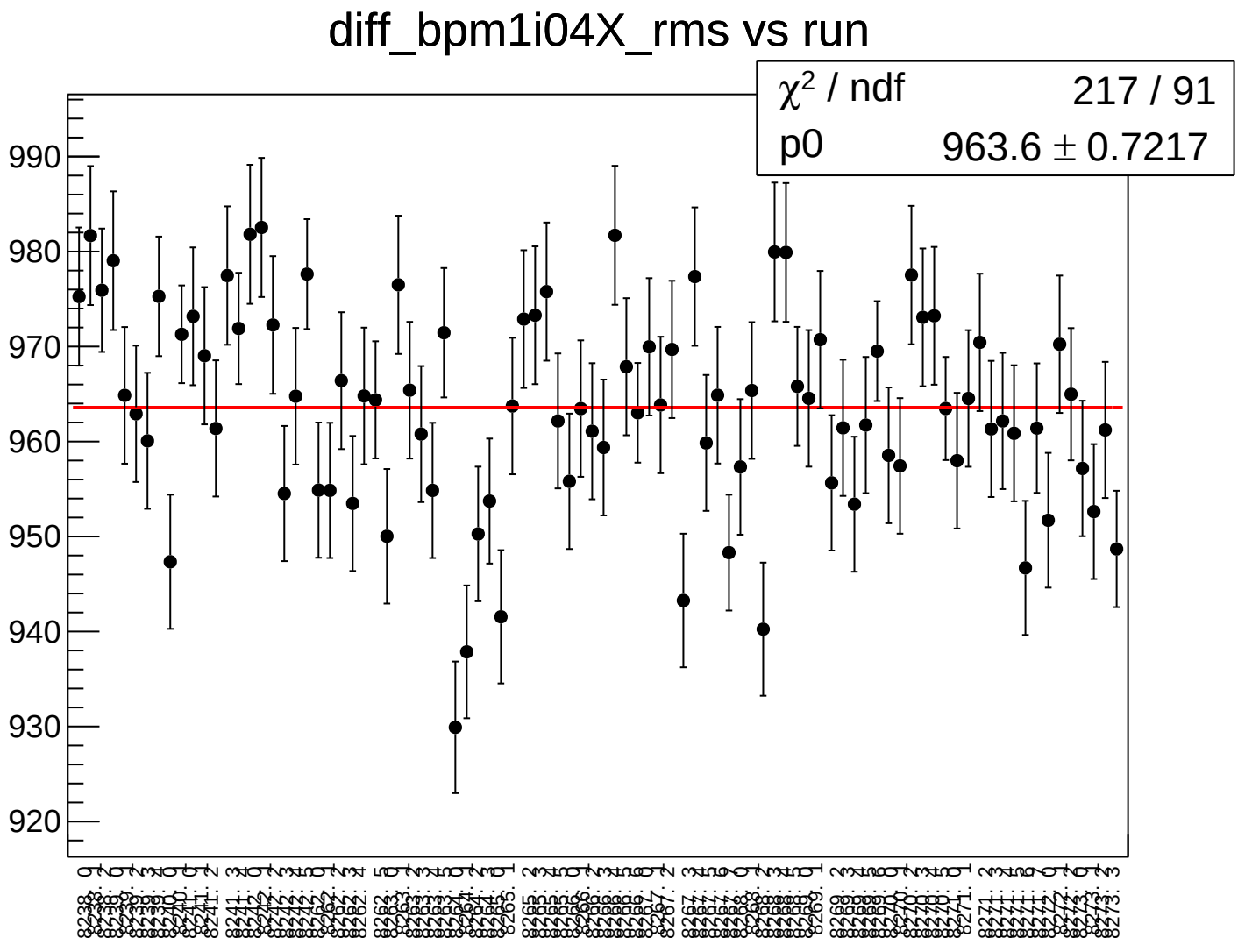

diff_bpm1i02Y_mean vs run
χ² / ndf 843.3 / 91
p0 39.56 ± 0.5255
pull
Entries 92
Mean −2287
Std Dev 0

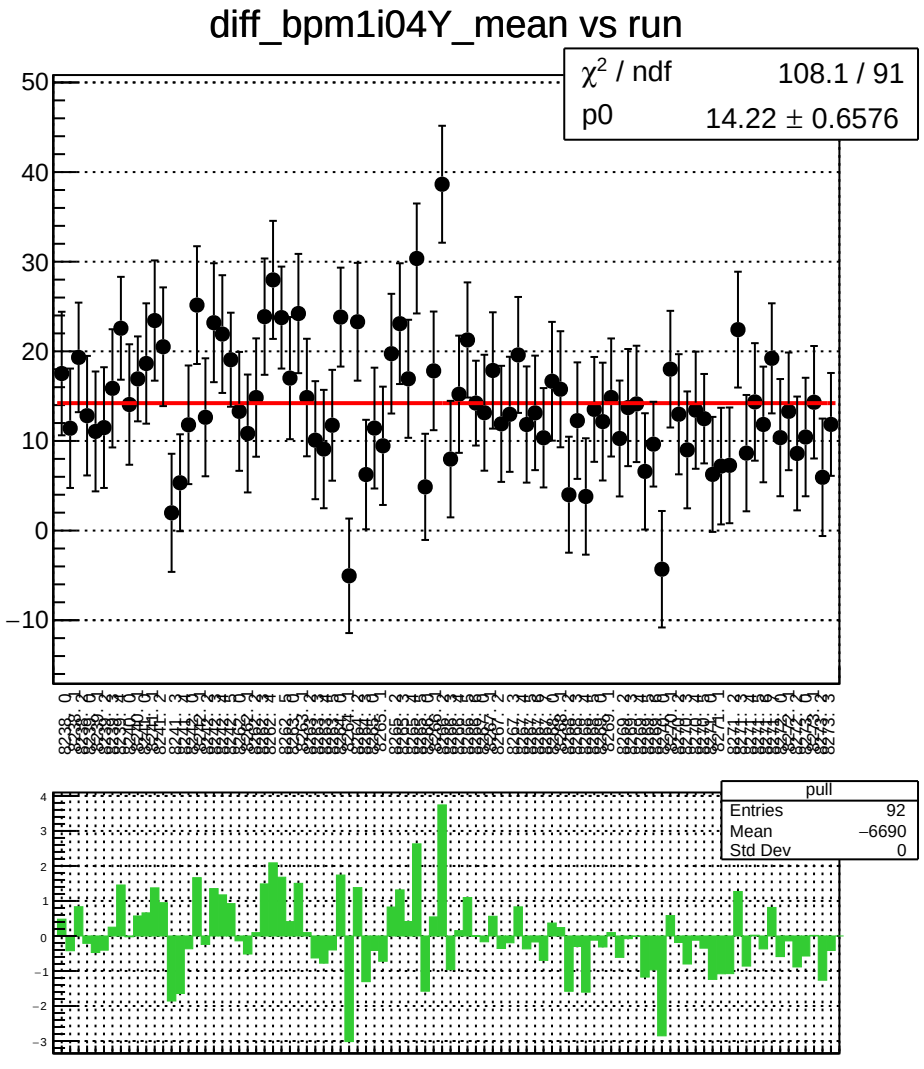

pull1D
Entries 92
Mean 0.08047
Std Dev 2.919

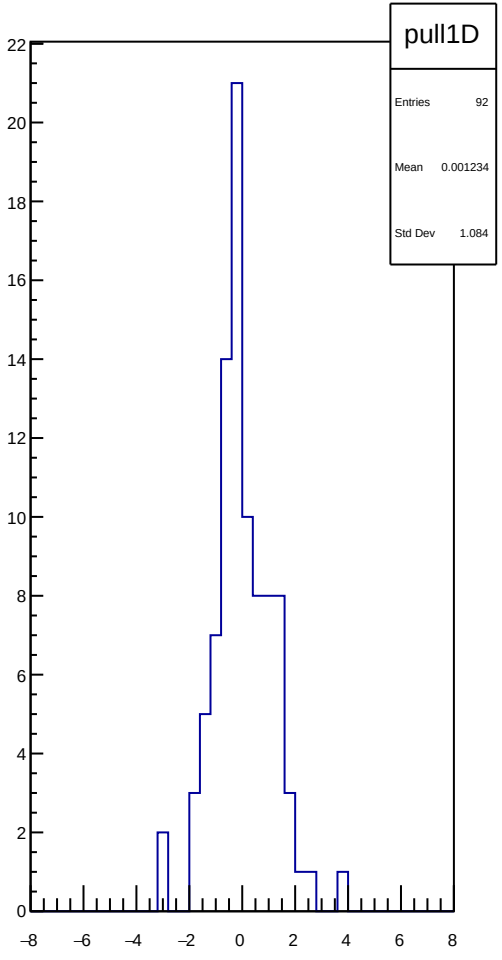

diff_bpm1i02Y_rms vs run
χ² / ndf 196.9 / 91
p0 496.2 ± 0.3716
515
510
505
500
495
490
485
480

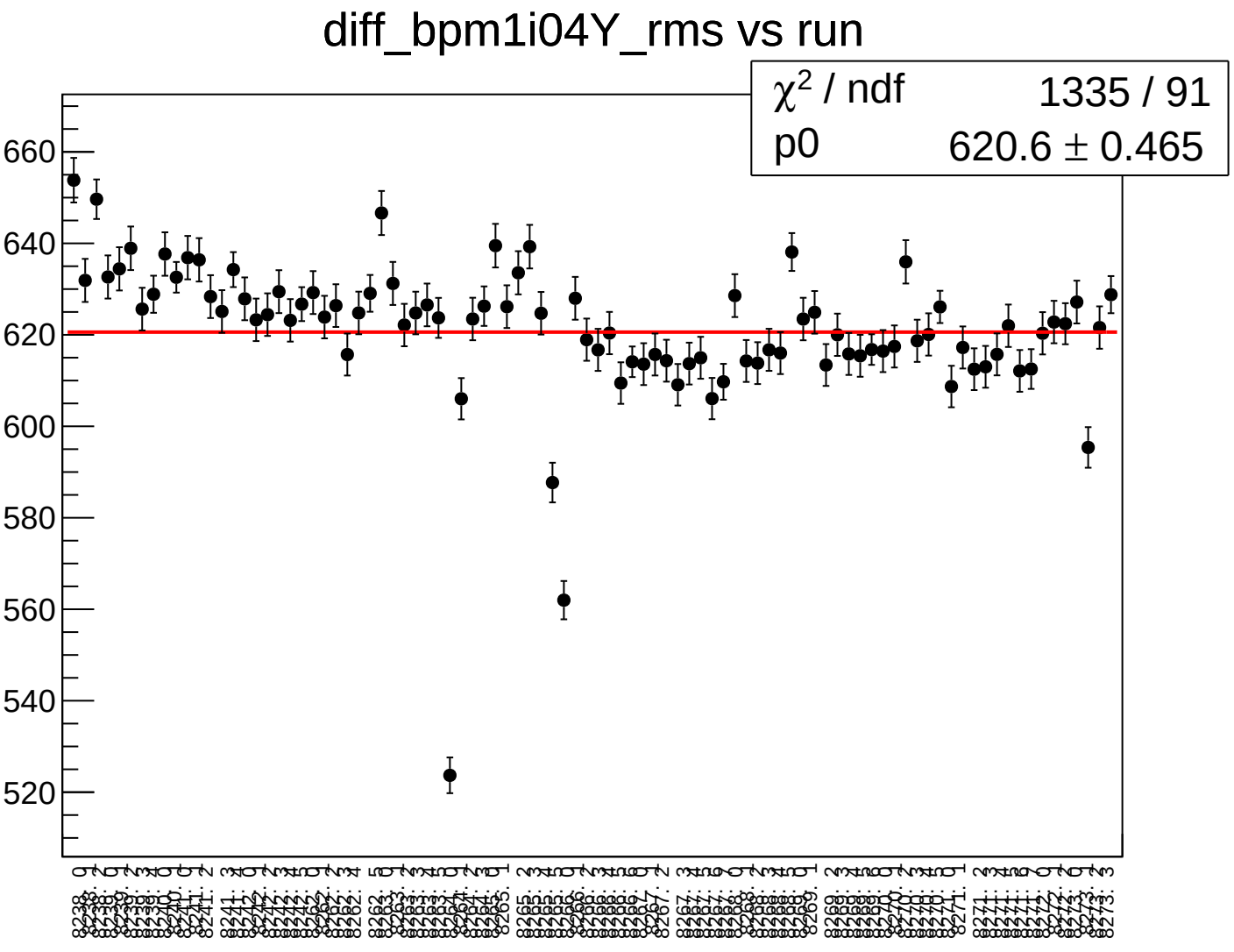

diff_bpm1i04X_mean vs run
$\chi^2$ / ndf 334.6 / 91
p0 62.13 ± 1.021
pull
Entries 92
Mean 2925
Std Dev 0

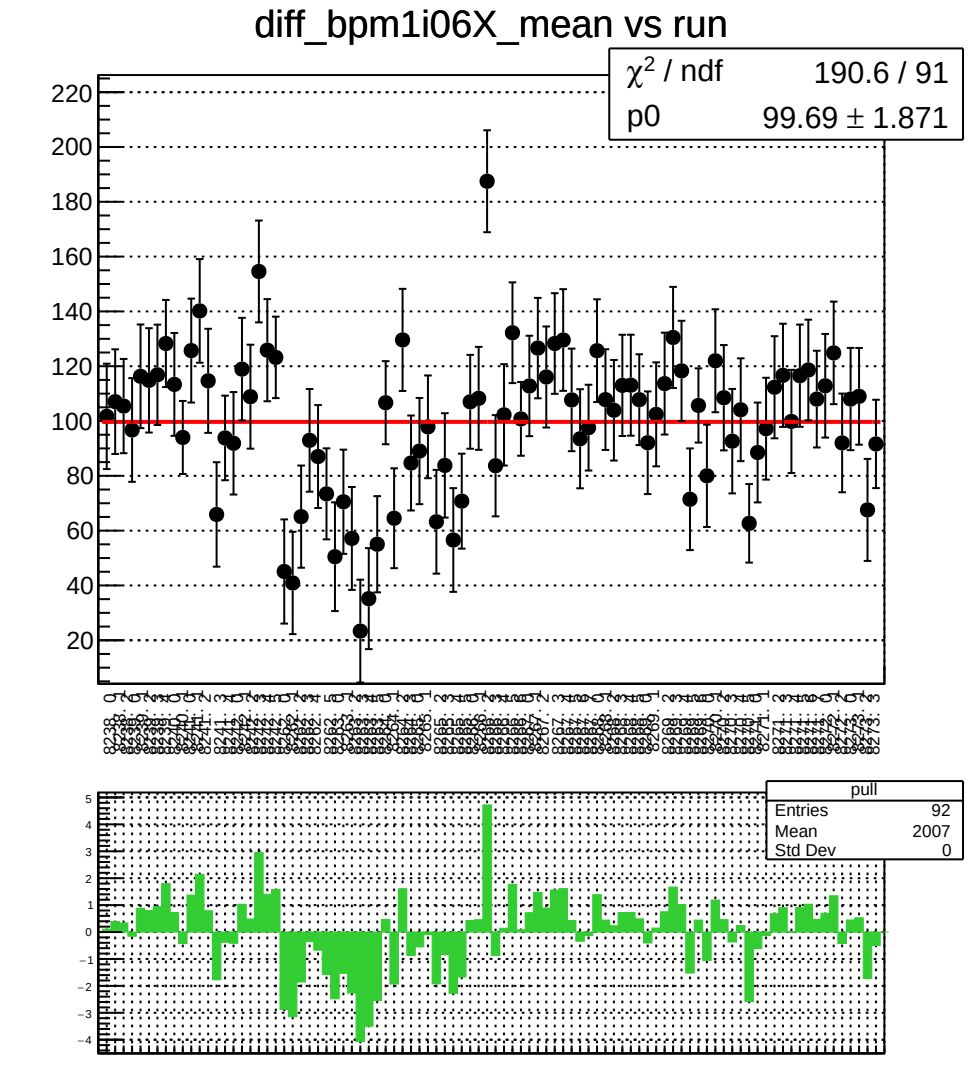

pull1D
Entries 92
Mean 0.003746
Std Dev 1.907

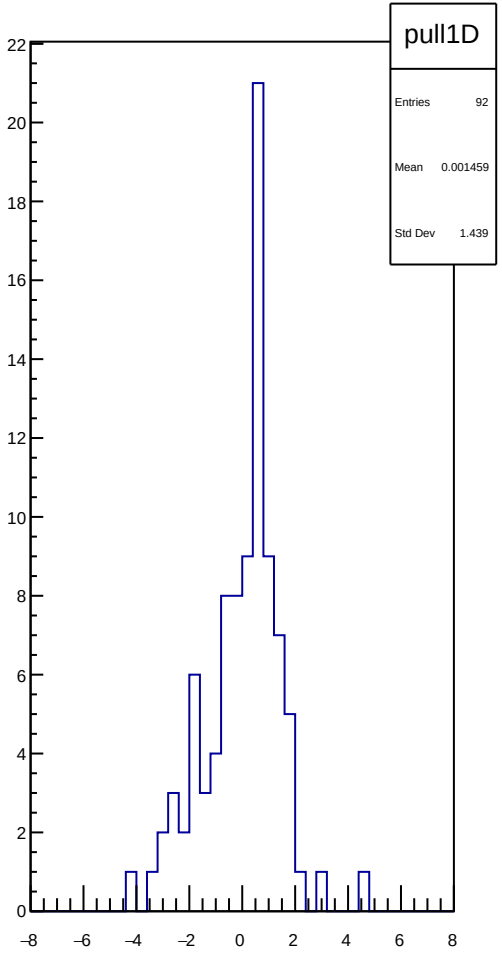

diff_bpm1i04X_rms vs run
χ² / ndf 217 / 91
p0 963.6 ± 0.7217
990
980
970
960
950
940
930
920

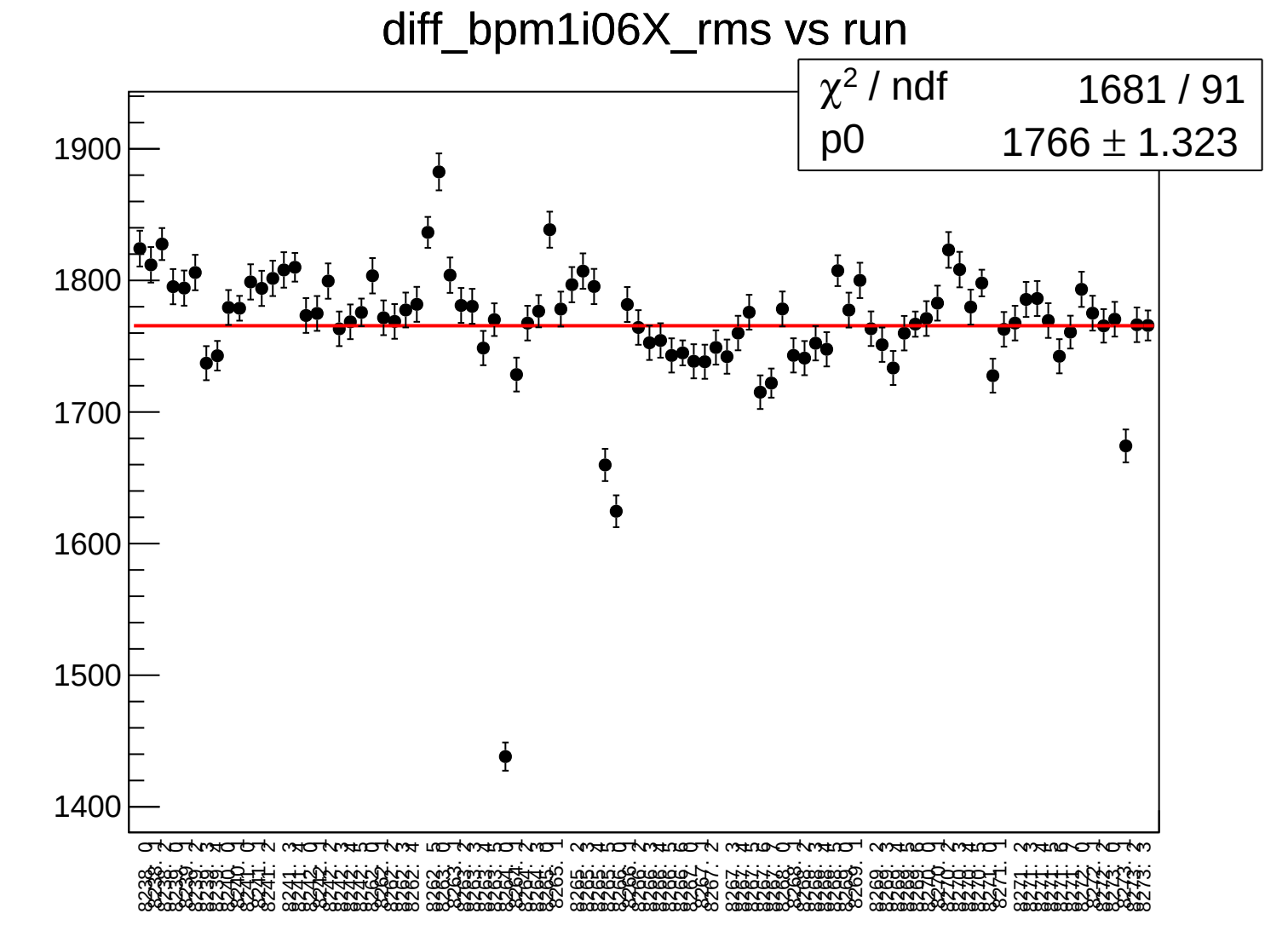

diff_bpm1i04Y_mean vs run
χ² / ndf 108.1 / 91
p0 14.22 ± 0.6576
pull
Entries 92
Mean −6690
Std Dev 0

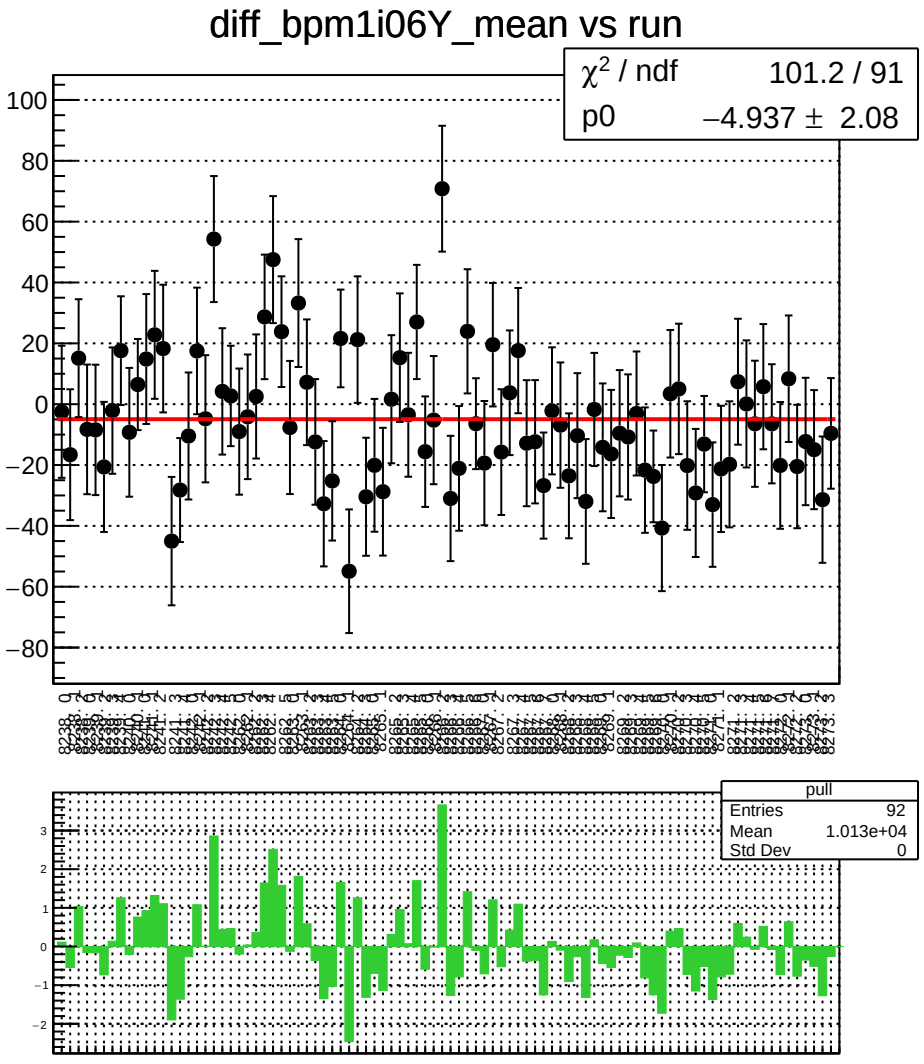

pull1D
Entries 92
Mean 0.001234
Std Dev 1.084

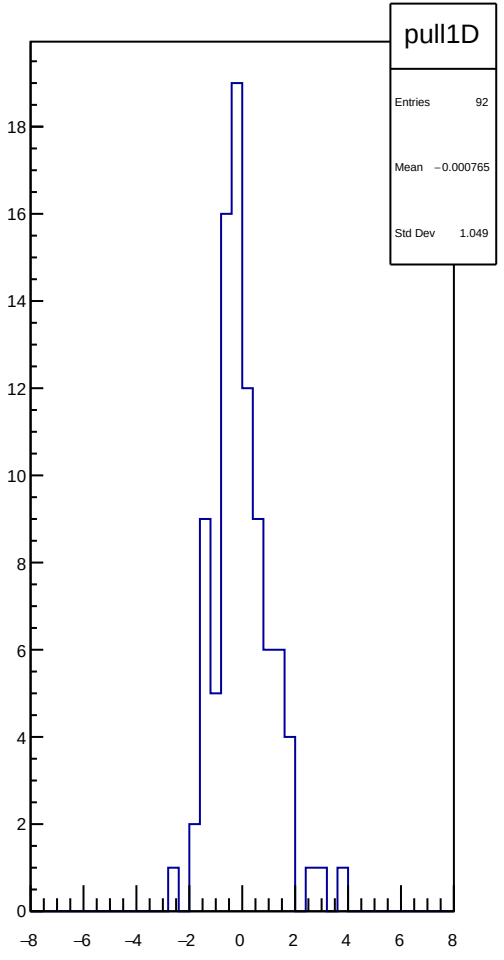

diff_bpm1i04Y_rms vs run
χ² / ndf 1335 / 91
p0 620.6 ± 0.465
660
640
620
600
580
560
540
520

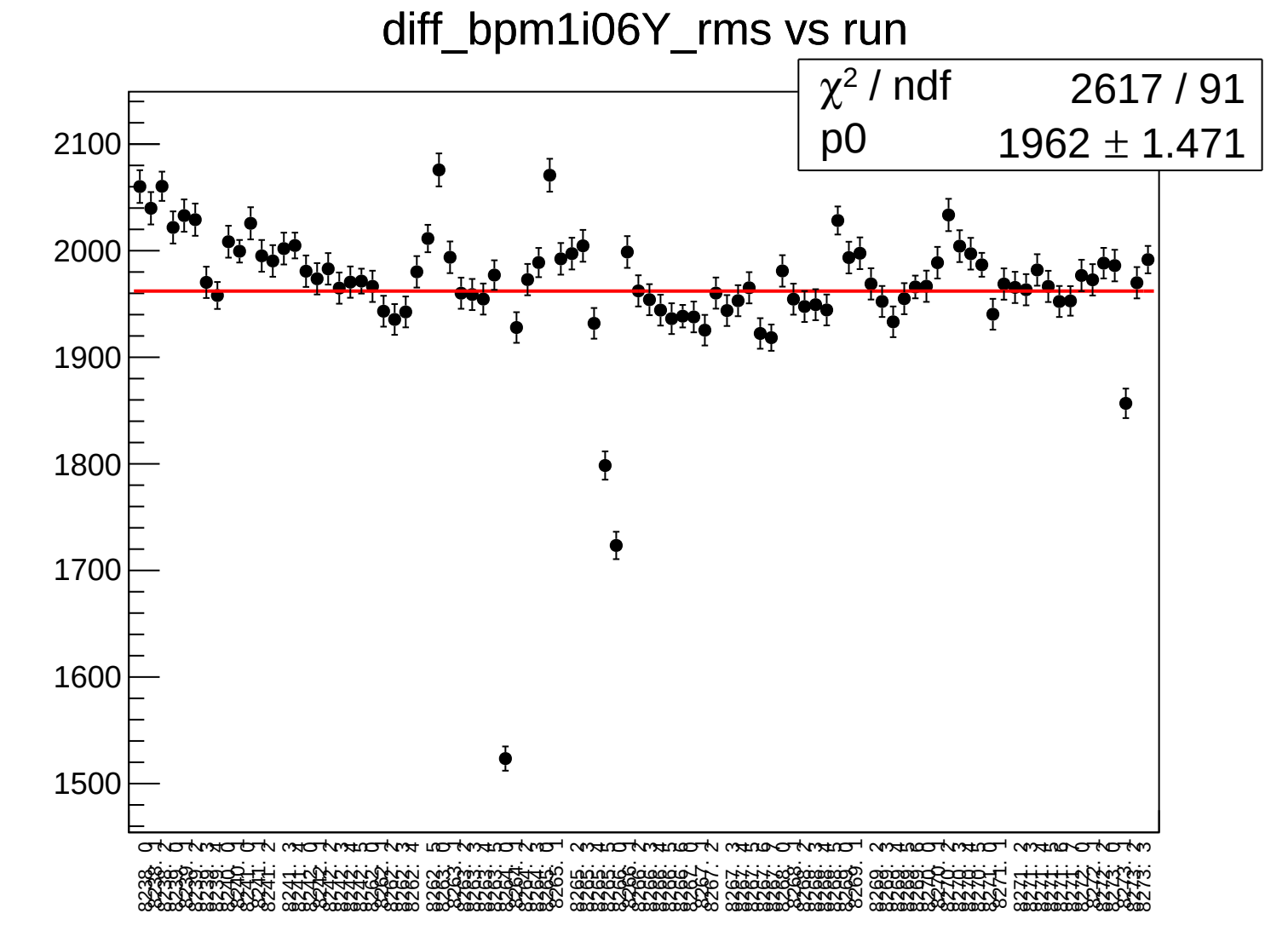

diff_bpm1i06X_mean vs run
$\chi^2$ / ndf 190.6 / 91
p0 99.69 ± 1.871
pull
Entries 92
Mean 2007
Std Dev 0

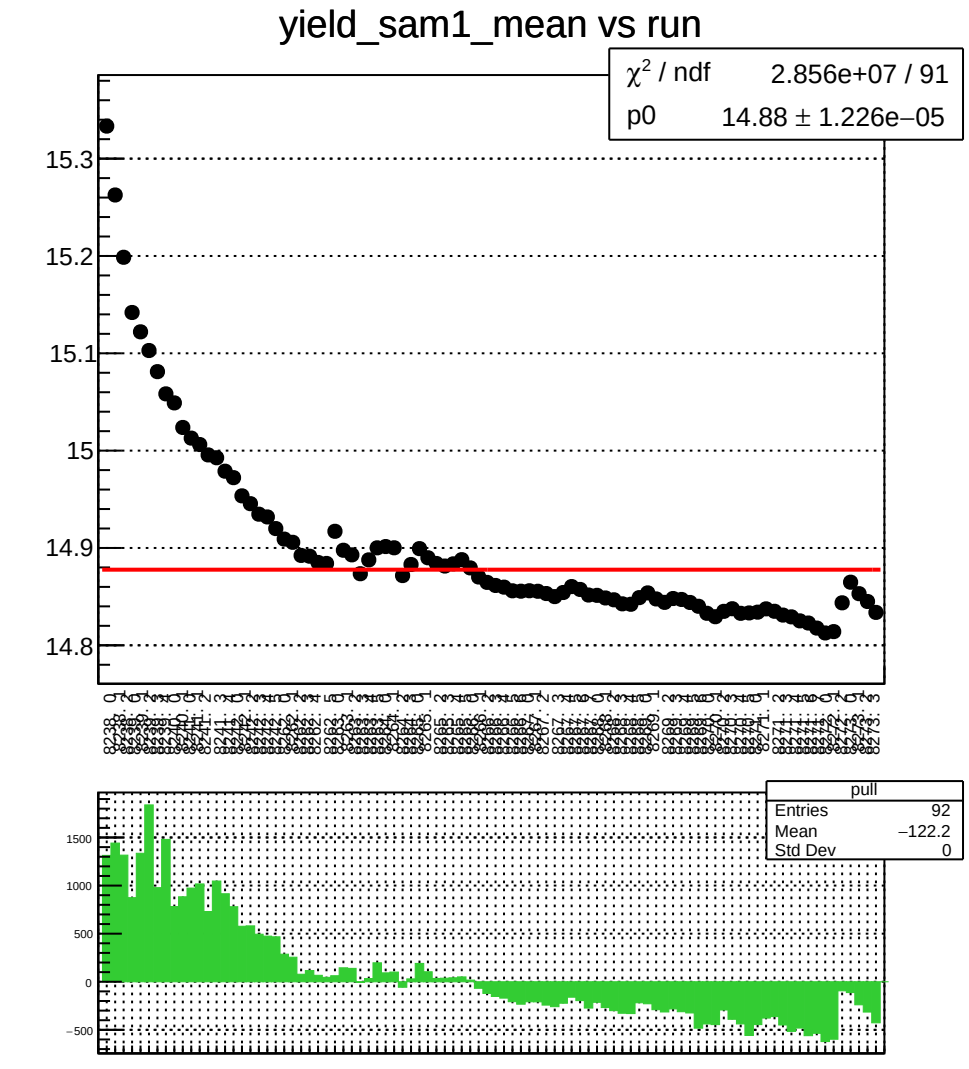

pull1D
Entries 92
Mean 0.001459
Std Dev 1.439

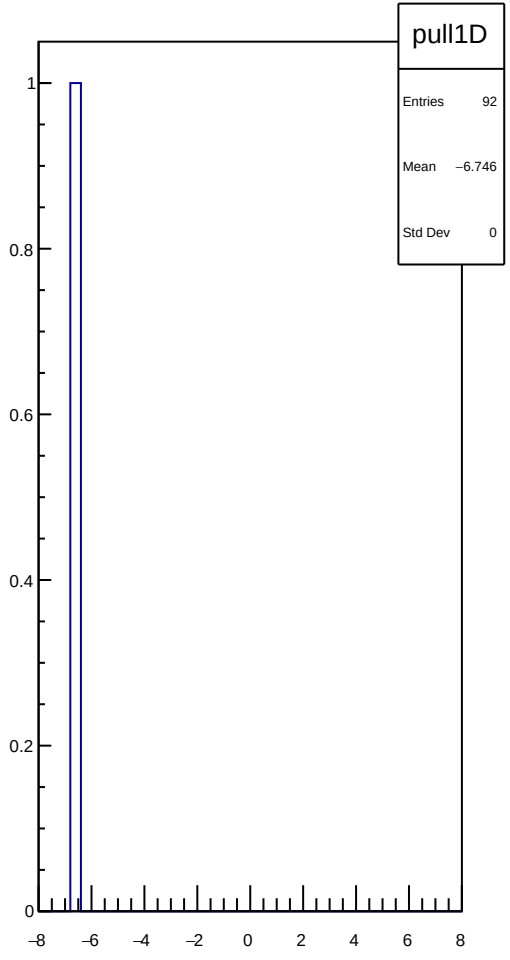

diff_bpm1i06X_rms vs run
χ² / ndf 1681 / 91
p0 1766 ± 1.323
1900
1800
1700
1600
1500
1400

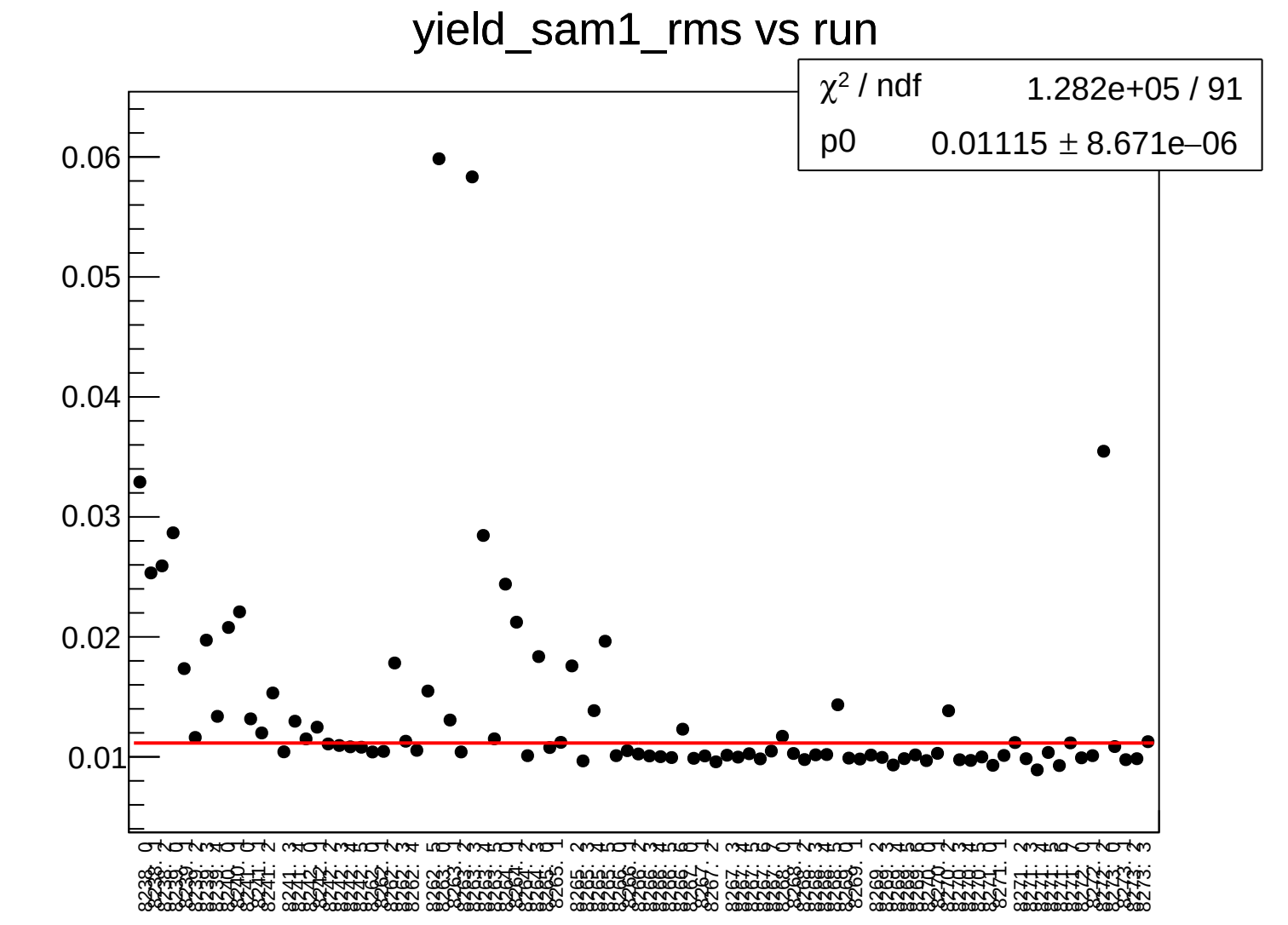

diff_bpm1i06Y_mean vs run
χ² / ndf 101.2 / 91
p0 −4.937 ± 2.08
pull
Entries 92
Mean 1.013e+04
Std Dev 0

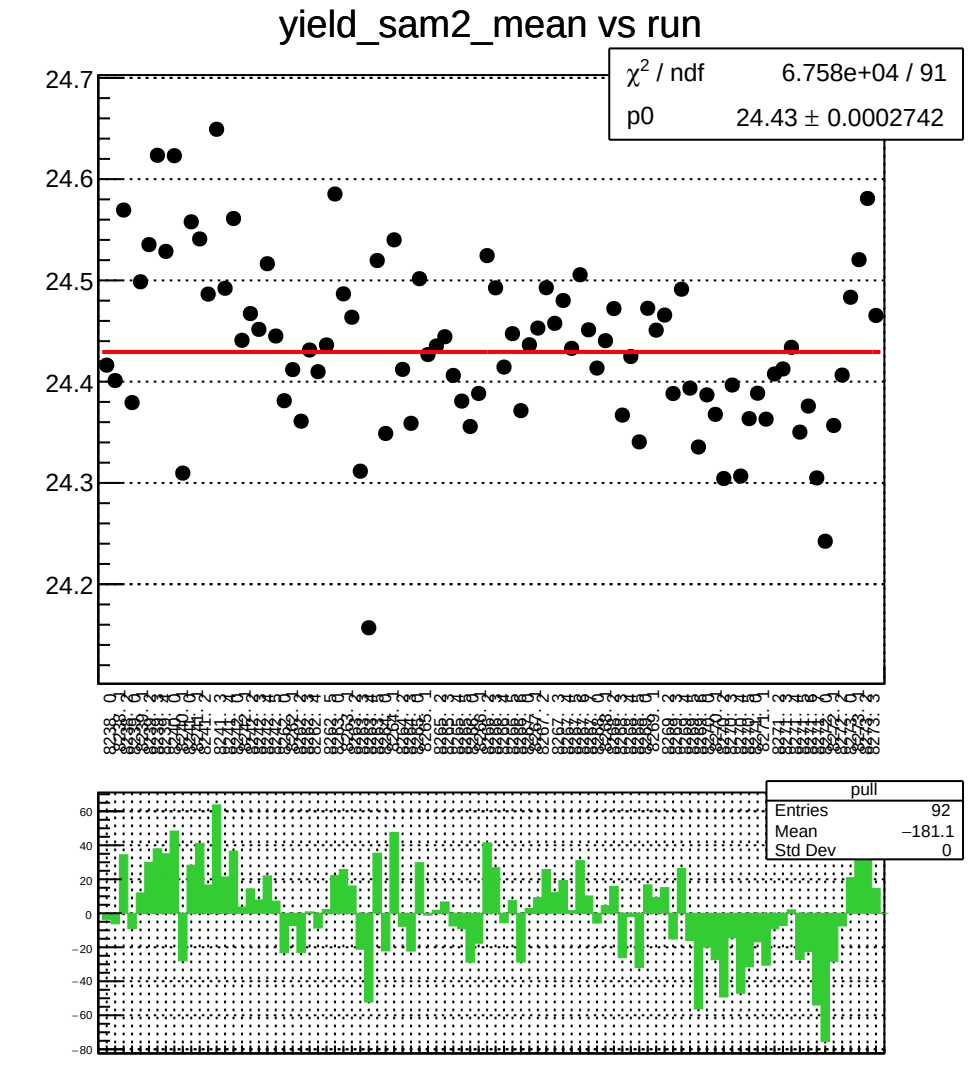

pull1D
Entries 92
Mean −0.000765
Std Dev 1.049

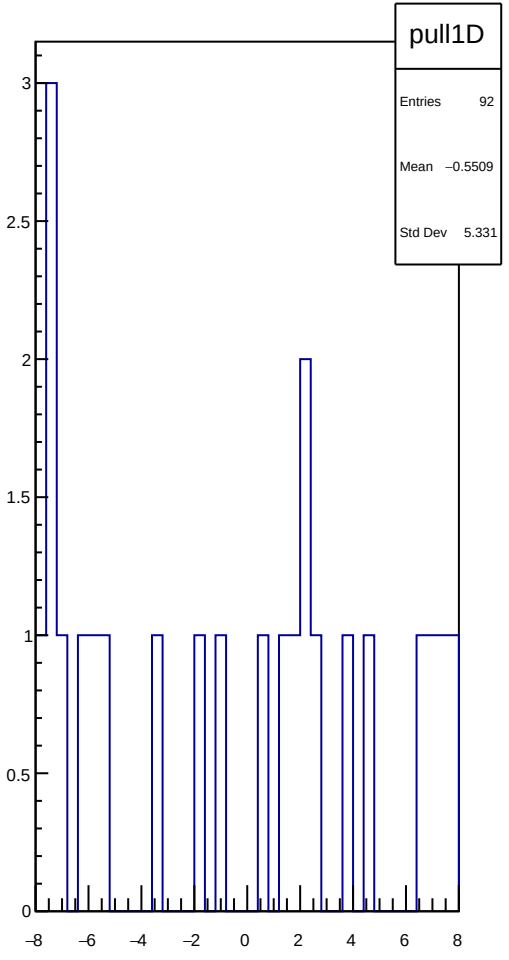

diff_bpm1i06Y_rms vs run
χ² / ndf 2617 / 91
p0 1962 ± 1.471
2100
2000
1900
1800
1700
1600
1500

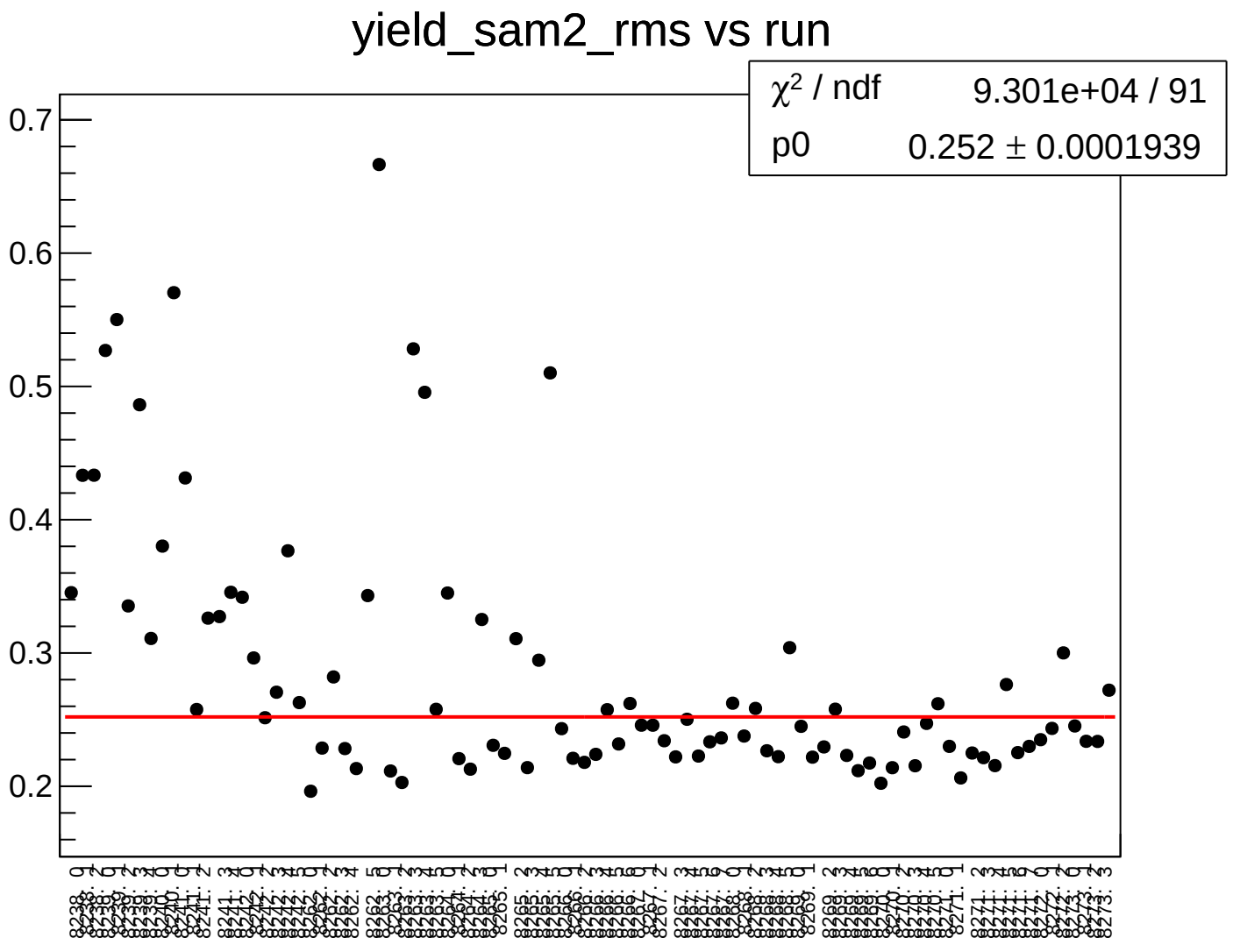

yield_sam1_mean vs run
χ² / ndf 2.856e+07 / 91
p0 14.88 ± 1.226e−05
15.3
15.2
15.1
15
14.9
14.8
pull
Entries 92
Mean −122.2
Std Dev 0
1500
1000
500
0
−500

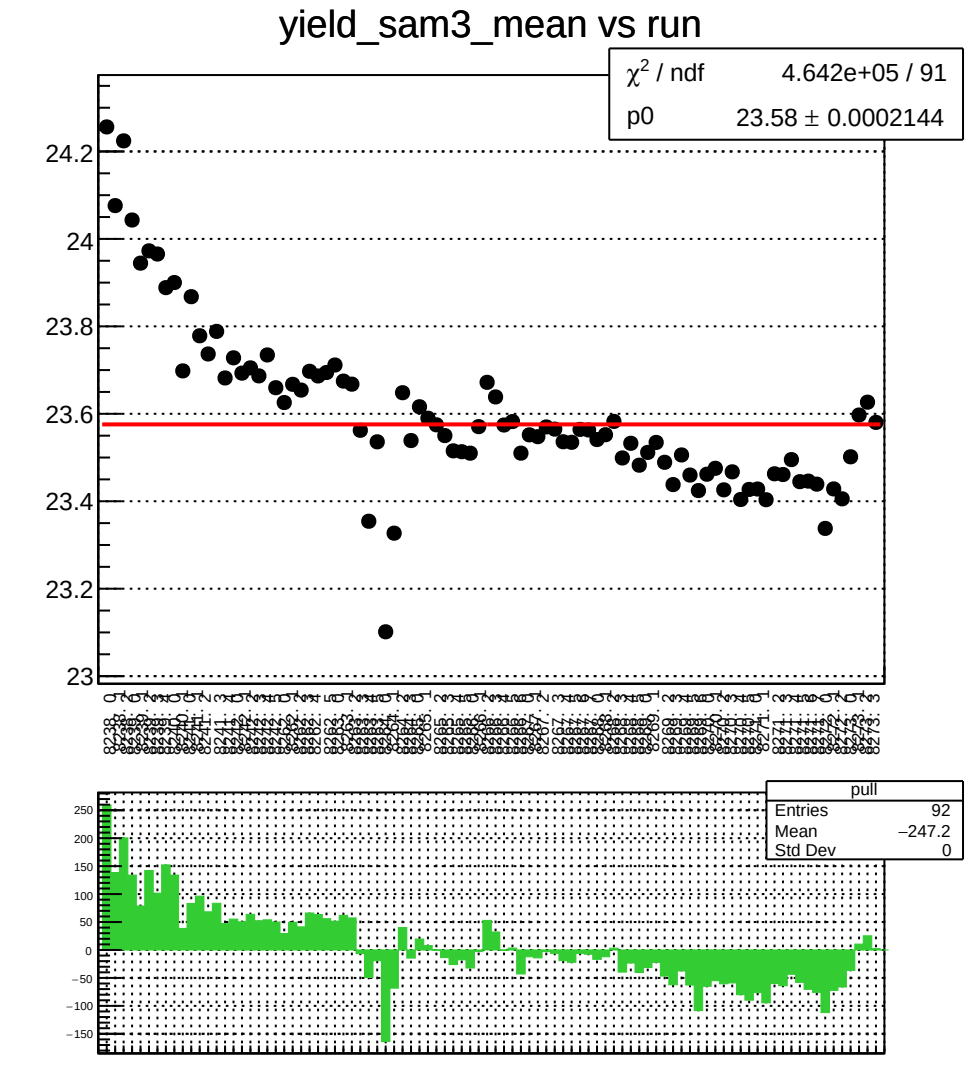

pull1D
Entries 92
Mean −6.746
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

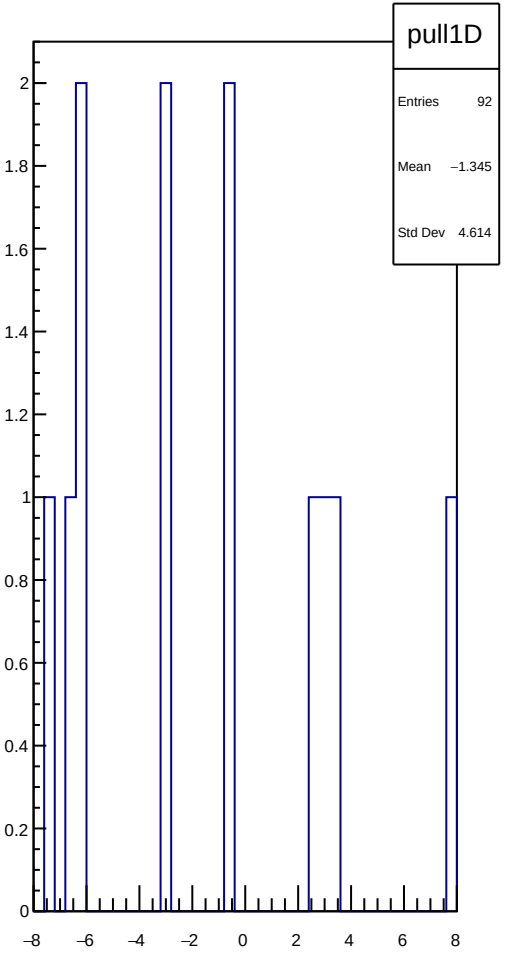

yield_sam1_rms vs run
χ² / ndf 1.282e+05 / 91
p0 0.01115 ± 8.671e–06
0.06
0.05
0.04
0.03
0.02
0.01

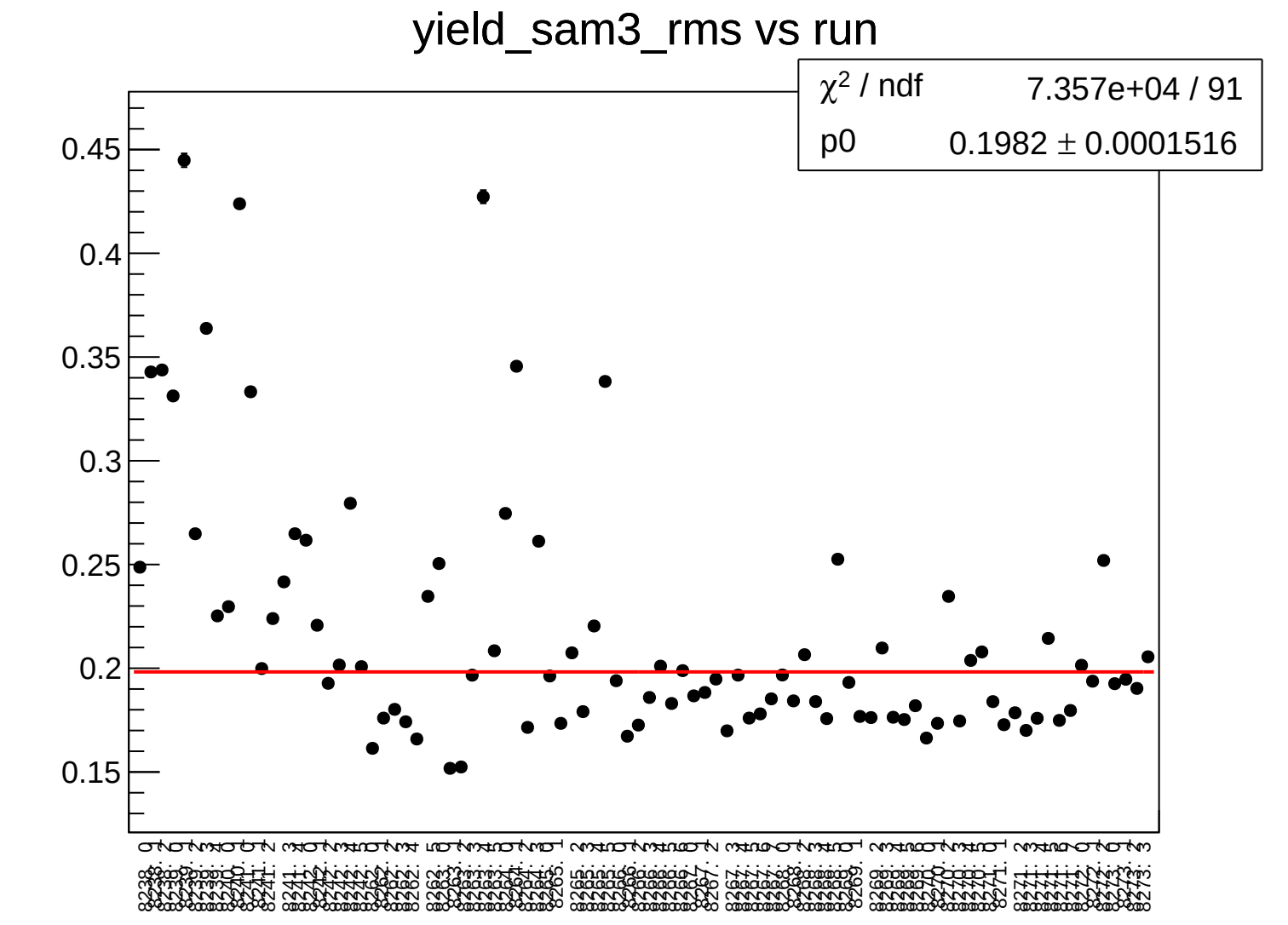

yield_sam2_mean vs run
χ² / ndf 6.758e+04 / 91
p0 24.43 ± 0.0002742
24.7
24.6
24.5
24.4
24.3
24.2
pull
Entries 92
Mean −181.1
Std Dev 0
60
40
20
0
−20
−40
−60
−80

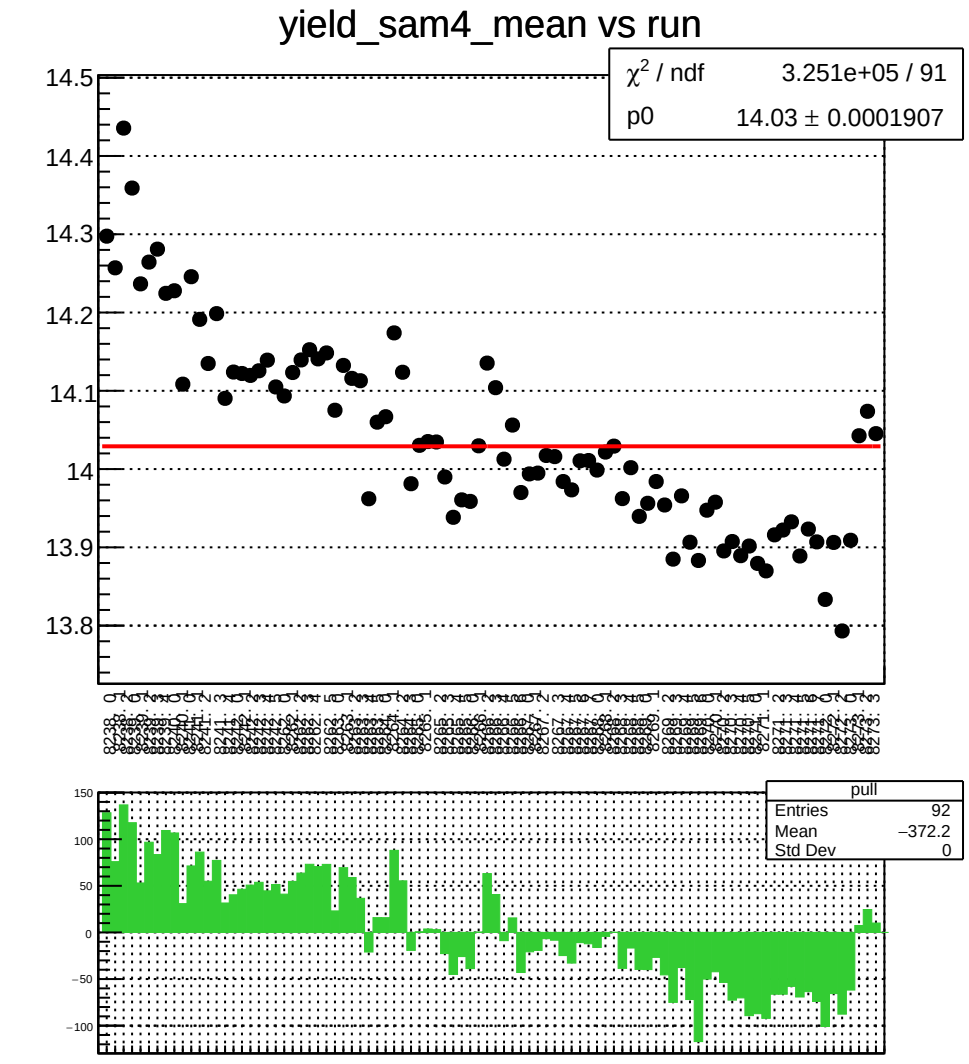

pull1D
Entries 92
Mean −0.5509
Std Dev 5.331
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

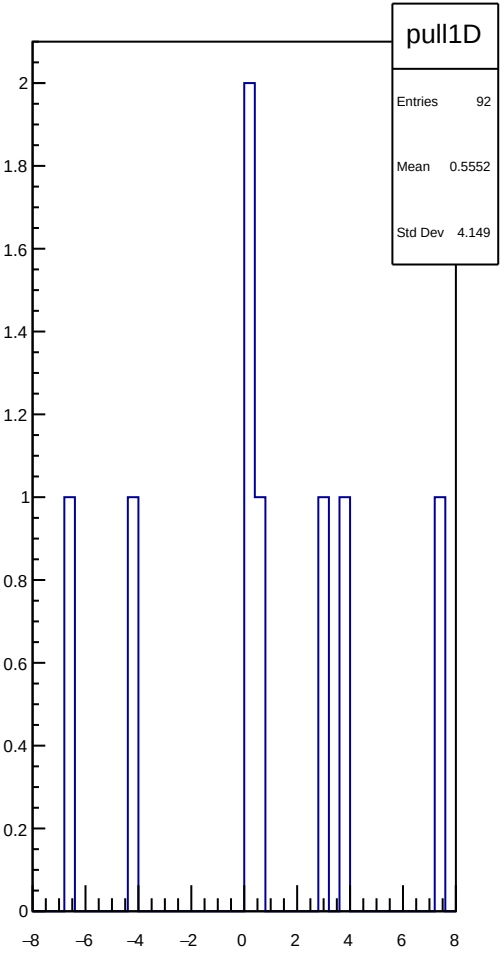

yield_sam2_rms vs run
χ² / ndf 9.301e+04 / 91
p0 0.252 ± 0.0001939
0.7
0.6
0.5
0.4
0.3
0.2

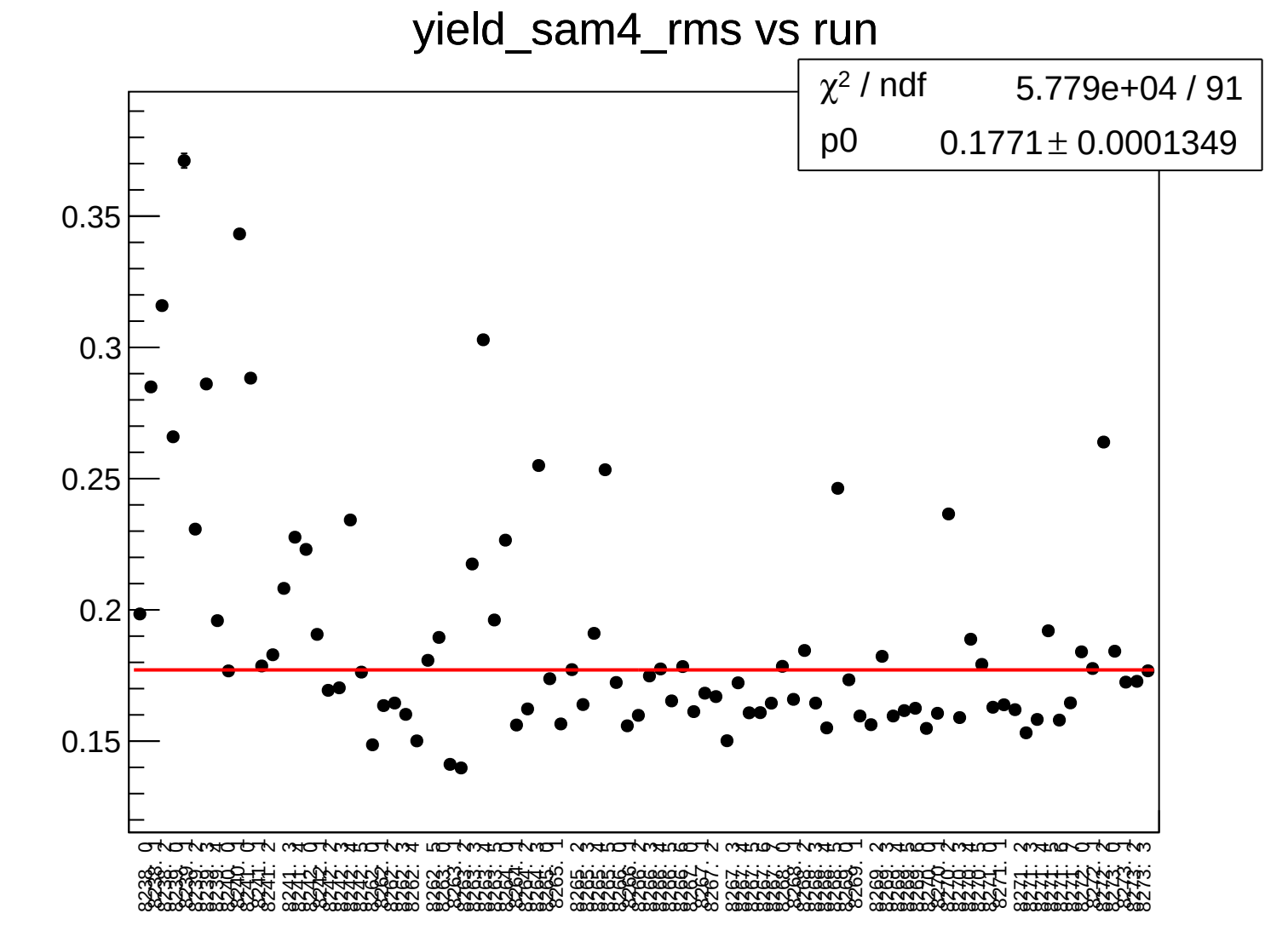

yield_sam3_mean vs run
χ² / ndf 4.642e+05 / 91
p0 23.58 ± 0.0002144
24.2
24
23.8
23.6
23.4
23.2
23
pull
Entries 92
Mean −247.2
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

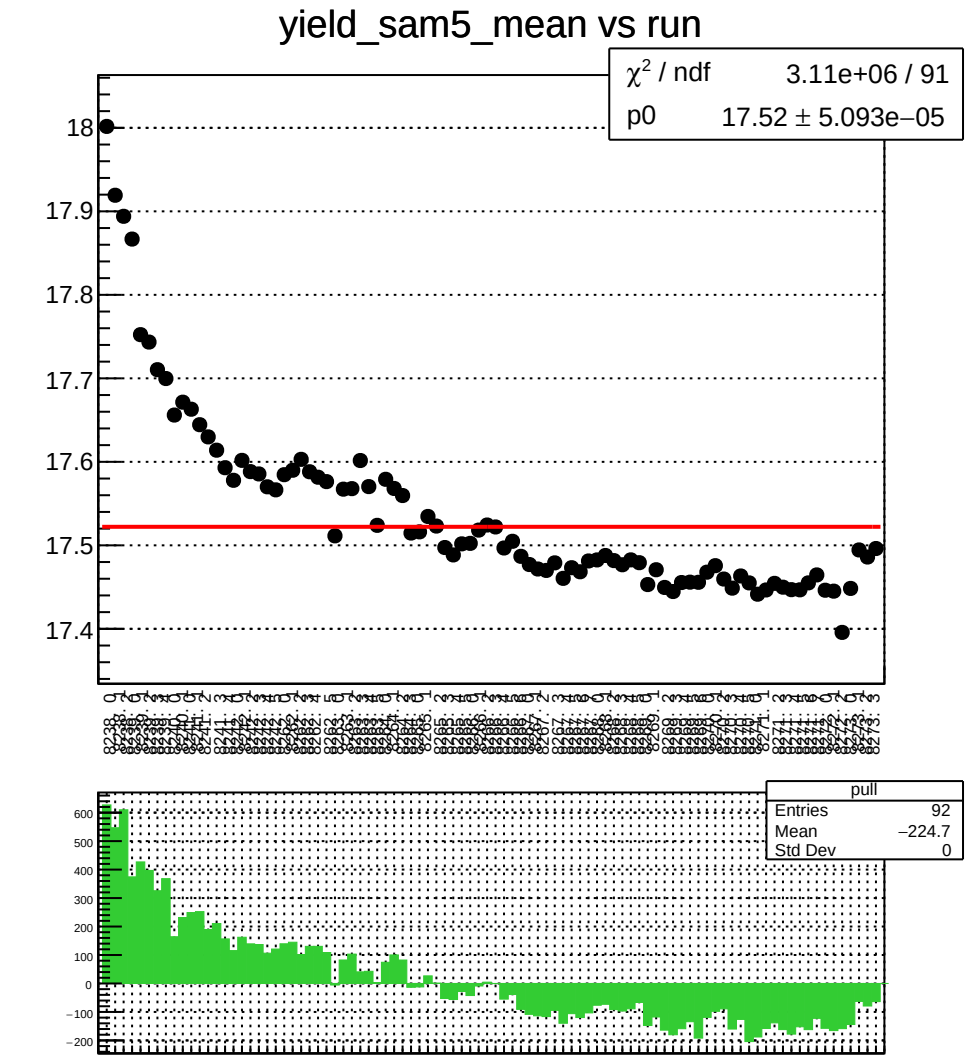

pull1D
Entries 92
Mean −1.345
Std Dev 4.614
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

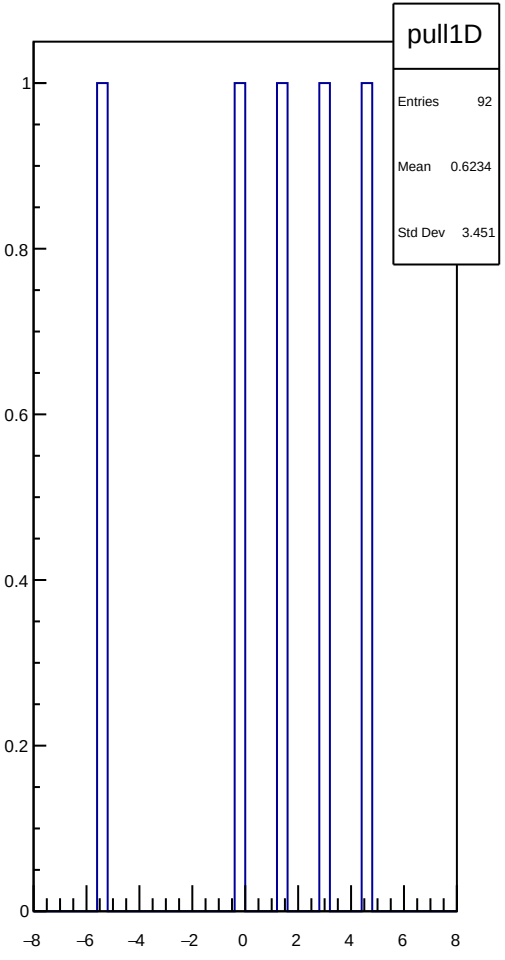

yield_sam3_rms vs run
χ² / ndf 7.357e+04 / 91
p0 0.1982 ± 0.0001516
0.45
0.4
0.35
0.3
0.25
0.2
0.15

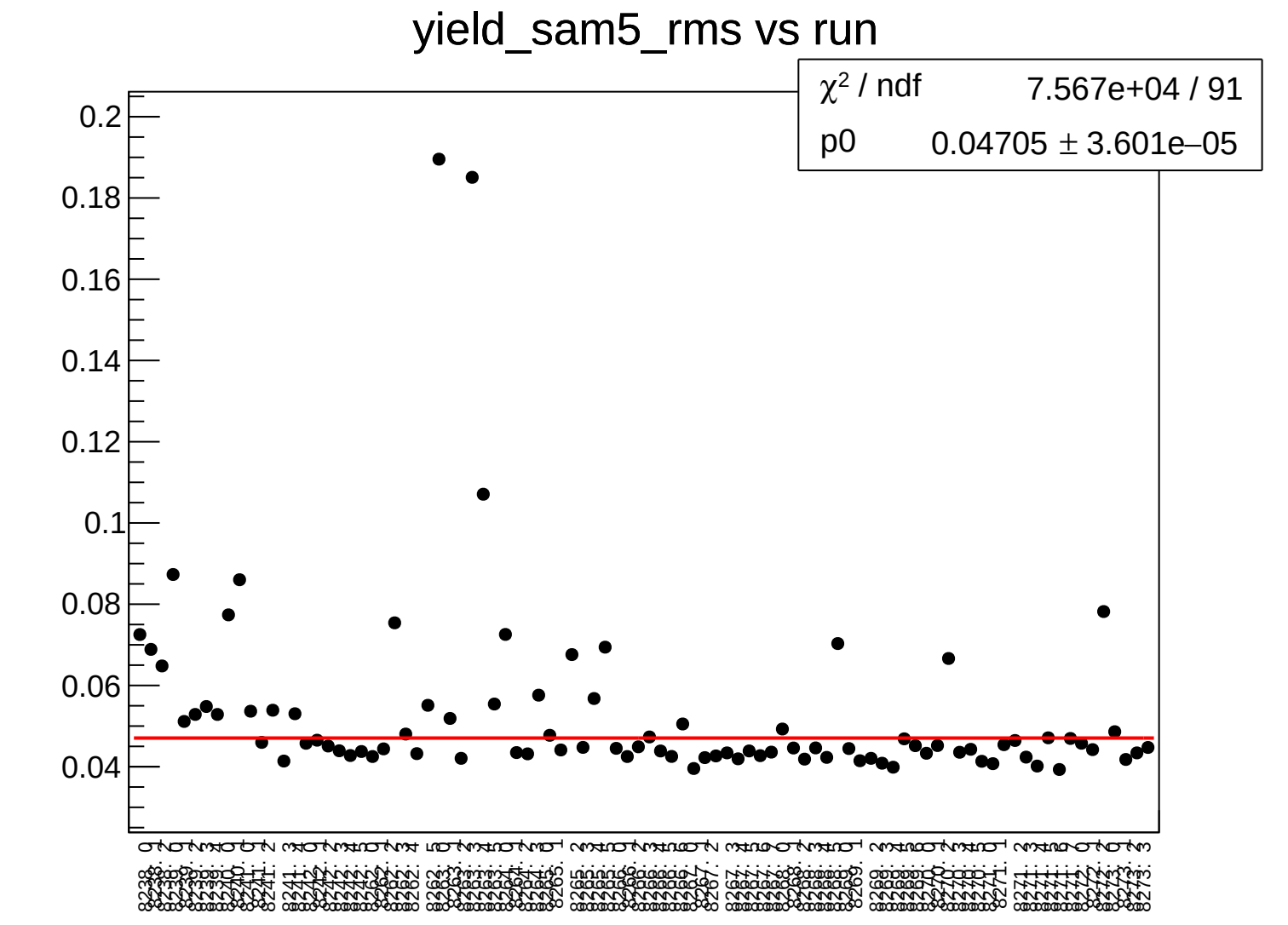

yield_sam4_mean vs run
χ² / ndf 3.251e+05 / 91
p0 14.03 ± 0.0001907
14.5
14.4
14.3
14.2
14.1
14
13.9
13.8
pull
Entries 92
Mean −372.2
Std Dev 0
150
100
50
0
−50
−100

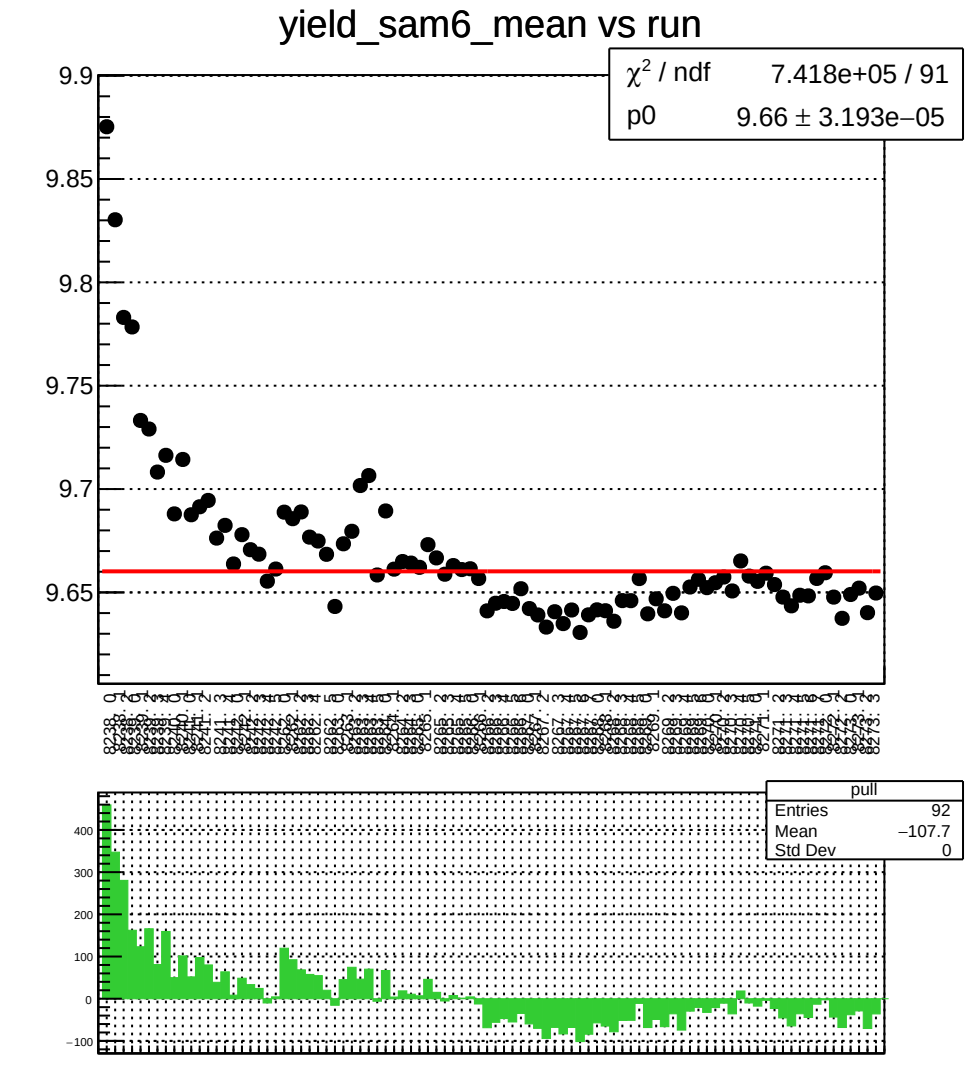

pull1D
Entries 92
Mean 0.5552
Std Dev 4.149
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

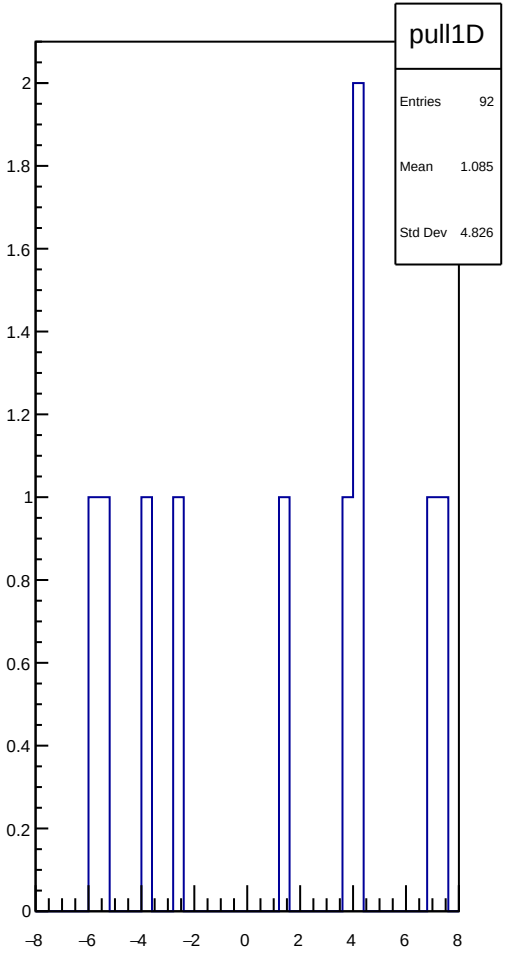

yield_sam4_rms vs run
χ² / ndf 5.779e+04 / 91
p0 0.1771 ± 0.0001349
0.35
0.3
0.25
0.2
0.15

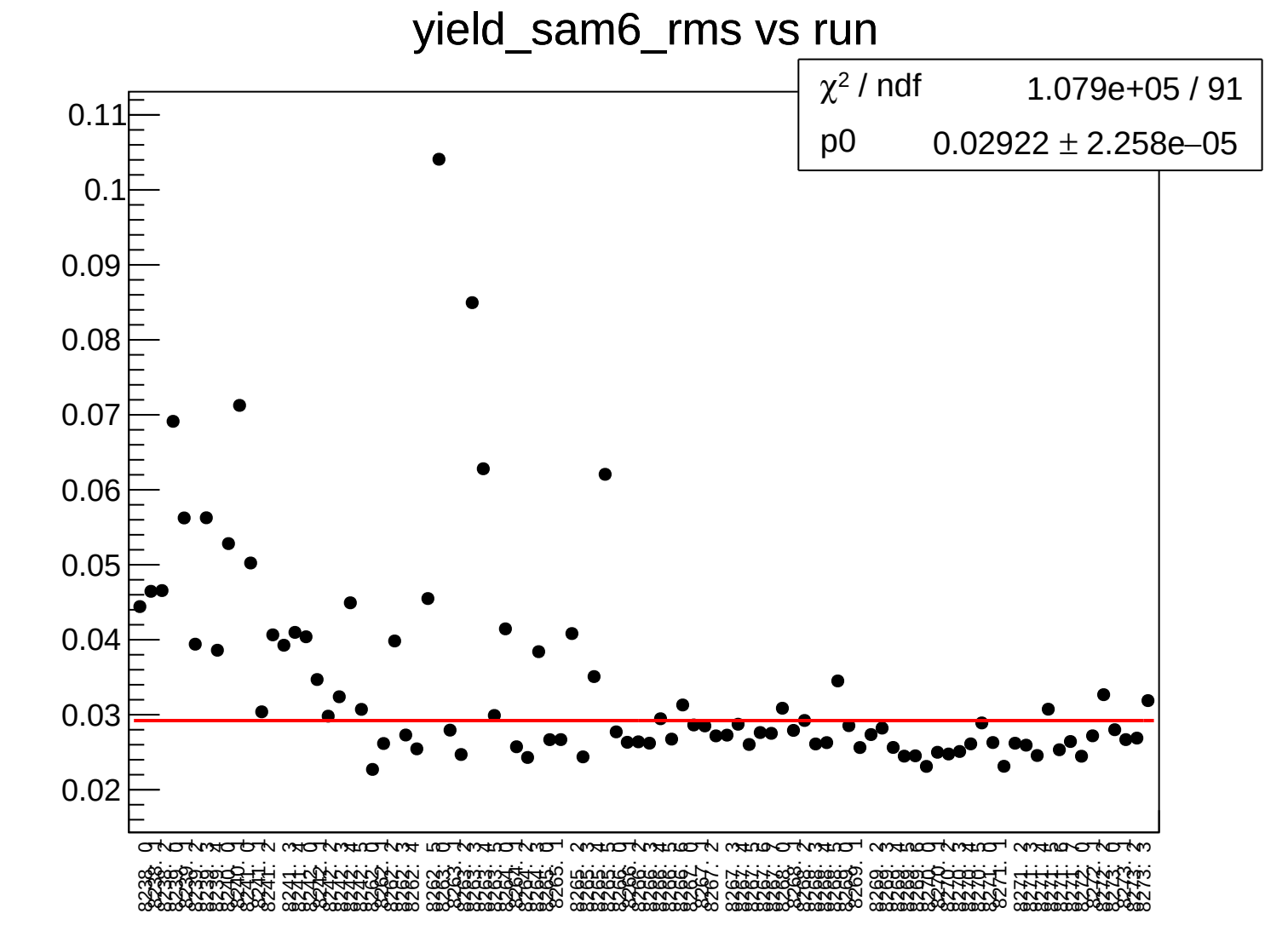

yield_sam5_mean vs run
χ² / ndf 3.11e+06 / 91
p0 17.52 ± 5.093e−05
18
17.9
17.8
17.7
17.6
17.5
17.4
pull
Entries 92
Mean −224.7
Std Dev 0
600
500
400
300
200
100
0
−100
−200

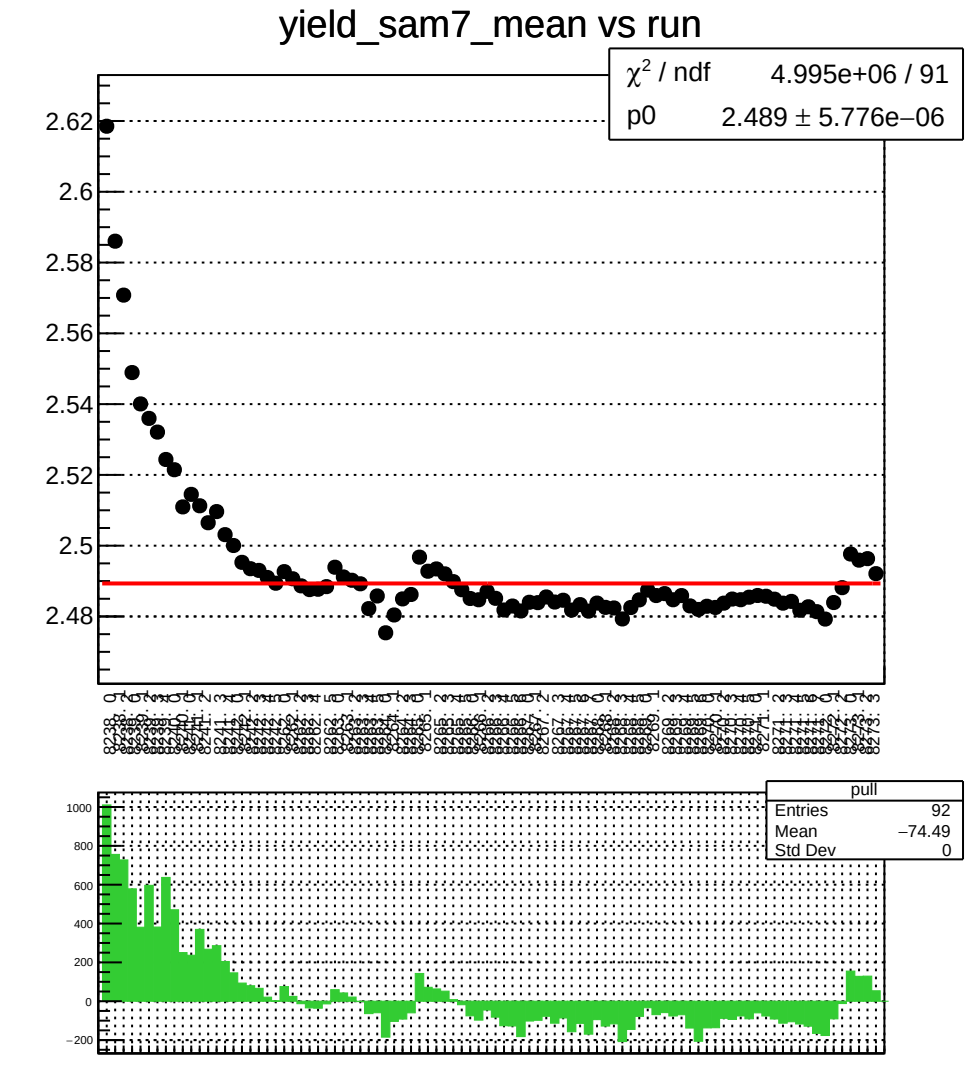

pull1D
Entries 92
Mean 0.6234
Std Dev 3.451
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

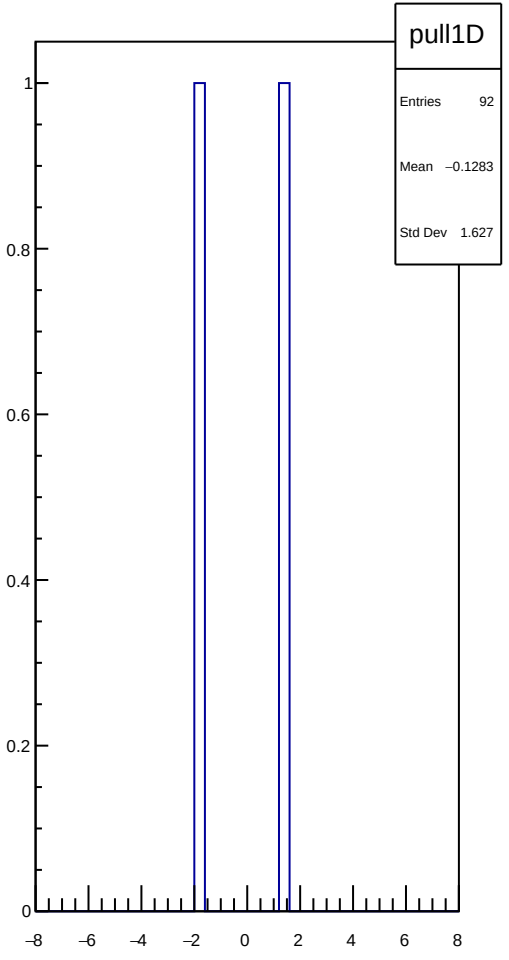

yield_sam5_rms vs run
χ² / ndf 7.567e+04 / 91
p0 0.04705 ± 3.601e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

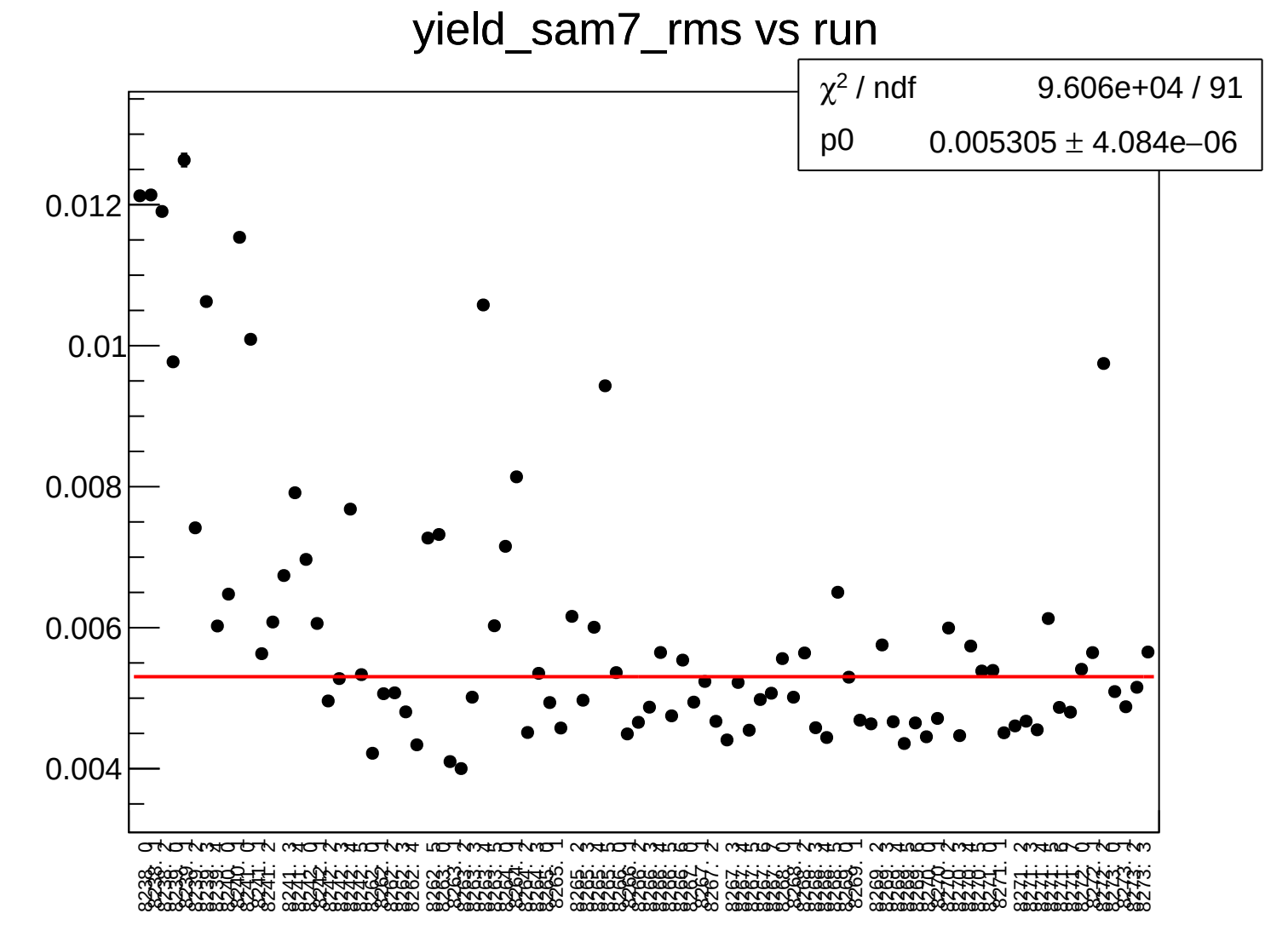

yield_sam6_mean vs run
χ² / ndf 7.418e+05 / 91
p0 9.66 ± 3.193e−05
9.9
9.85
9.8
9.75
9.7
9.65
pull
Entries 92
Mean −107.7
Std Dev 0
400
300
200
100
0
−100

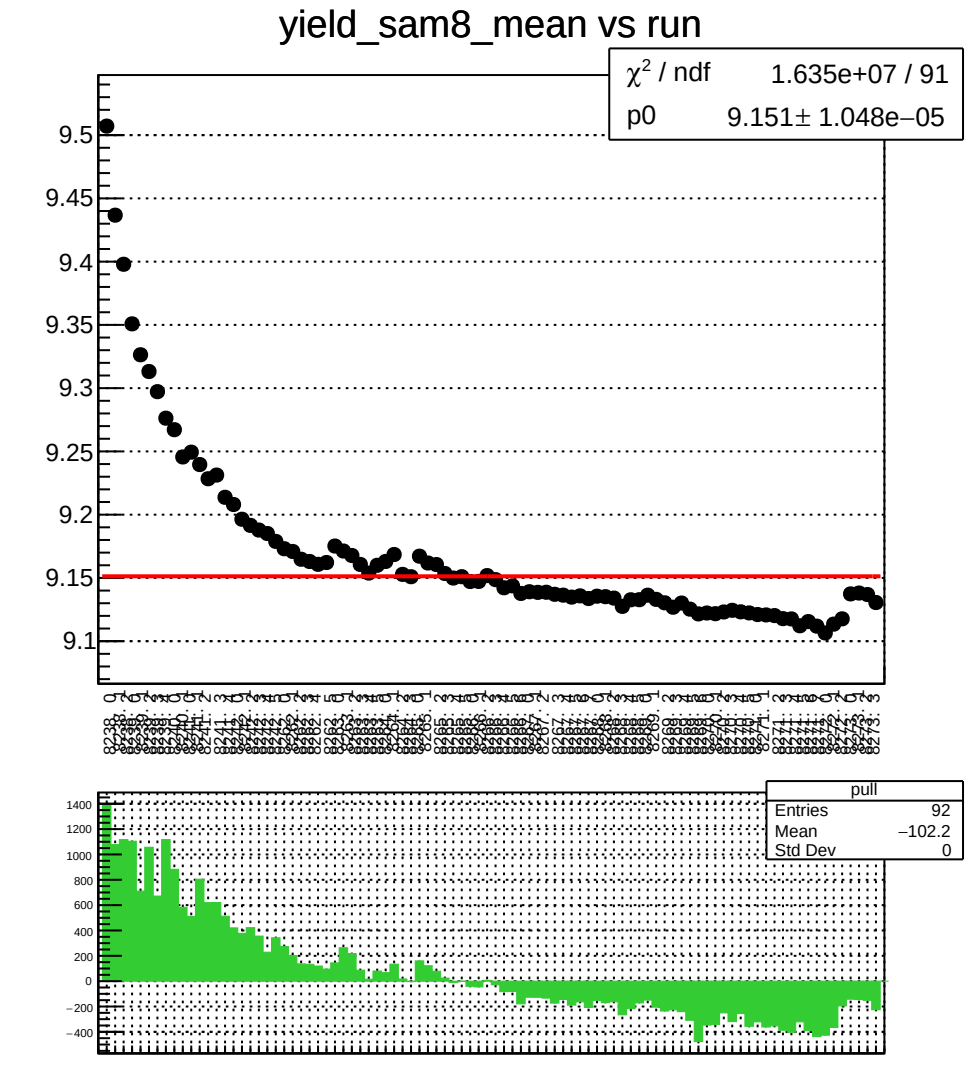

pull1D
Entries 92
Mean 1.085
Std Dev 4.826
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

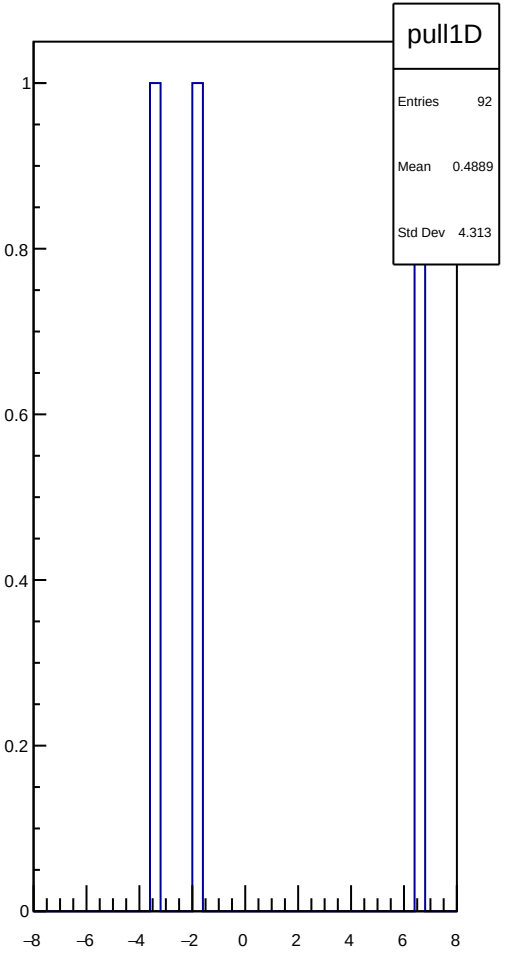

yield_sam6_rms vs run
χ² / ndf 1.079e+05 / 91
p0 0.02922 ± 2.258e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02


yield_sam7_mean vs run
χ² / ndf 4.995e+06 / 91
p0 2.489 ± 5.776e−06
2.62
2.6
2.58
2.56
2.54
2.52
2.5
2.48
pull
Entries 92
Mean −74.49
Std Dev 0
1000
800
600
400
200
0
−200

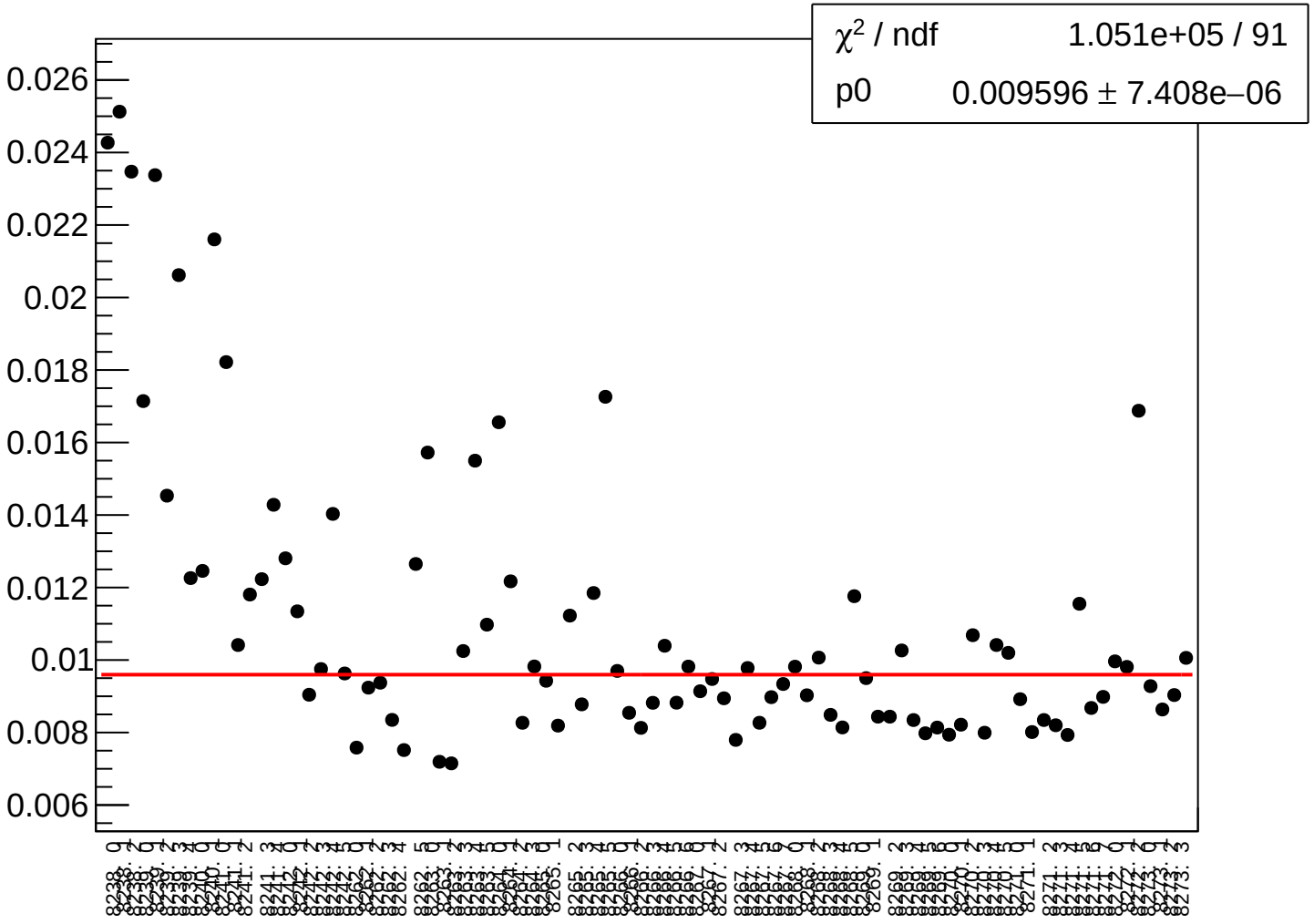

pull1D
Entries 92
Mean −0.1283
Std Dev 1.627
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

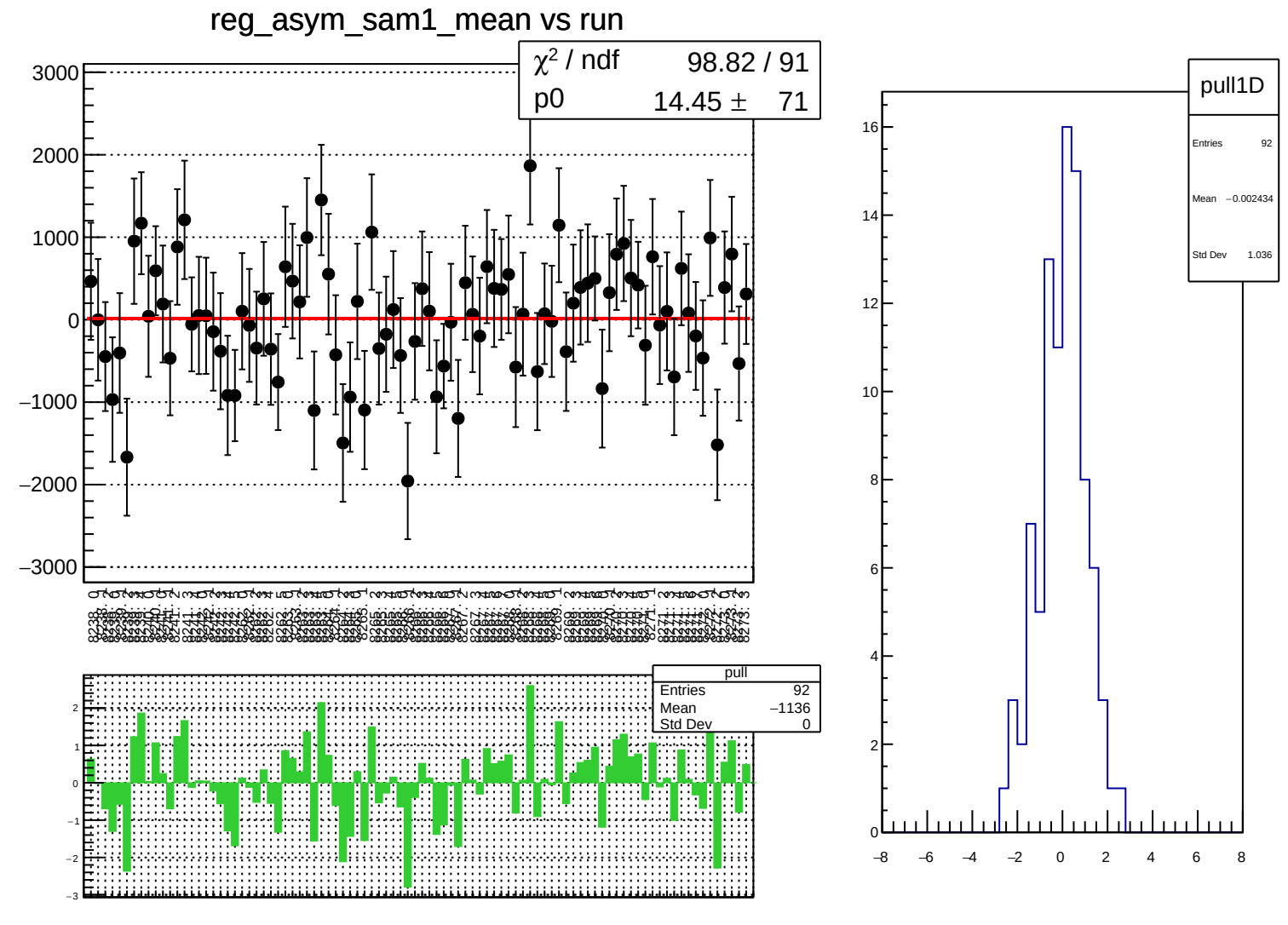

yield_sam7_rms vs run
$\chi^2$ / ndf 9.606e+04 / 91
p0 0.005305 ± 4.084e−06
0.012
0.01
0.008
0.006
0.004

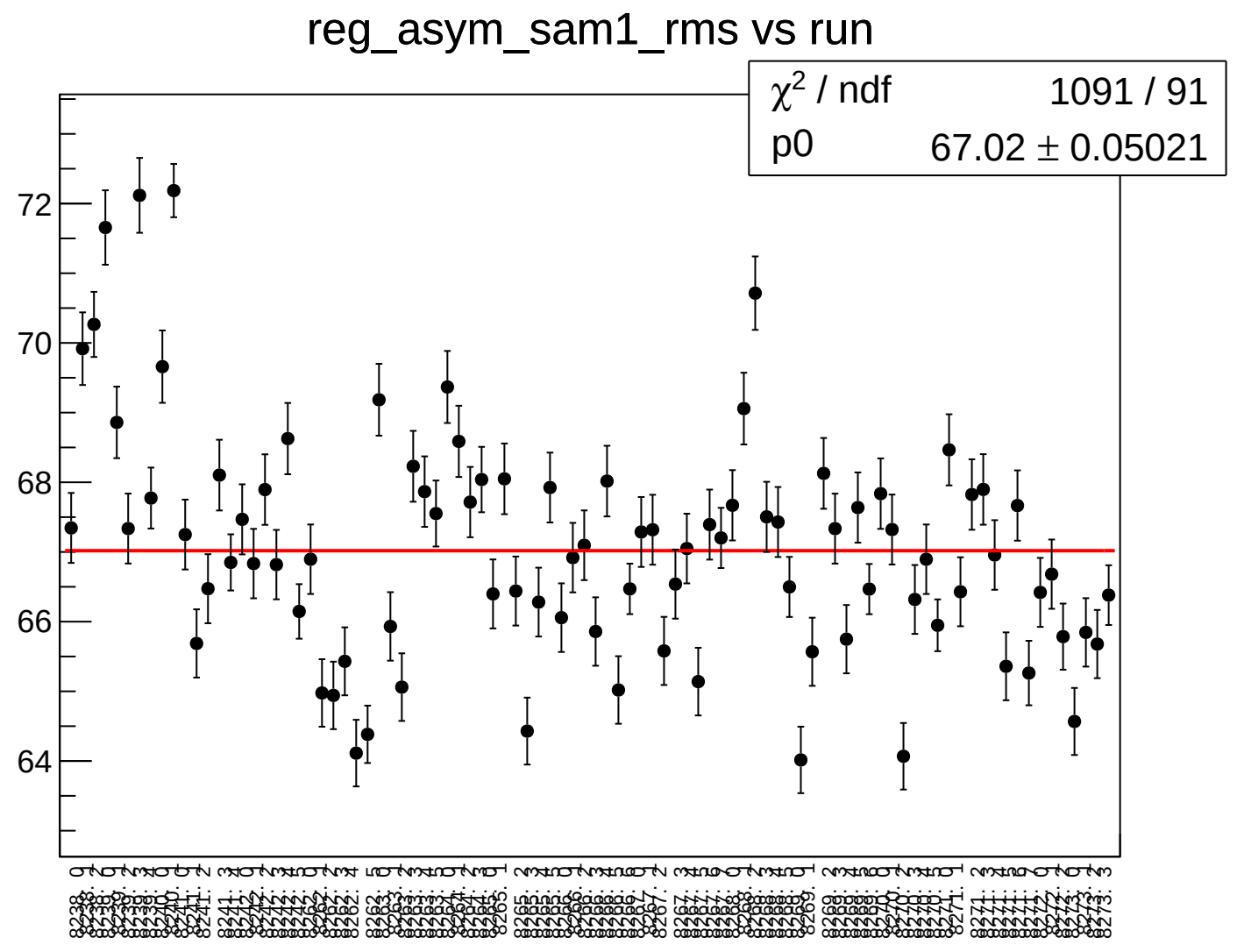

yield_sam8_mean vs run
χ² / ndf 1.635e+07 / 91
p0 9.151± 1.048e−05
9.5
9.45
9.4
9.35
9.3
9.25
9.2
9.15
9.1
pull
Entries 92
Mean −102.2
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400

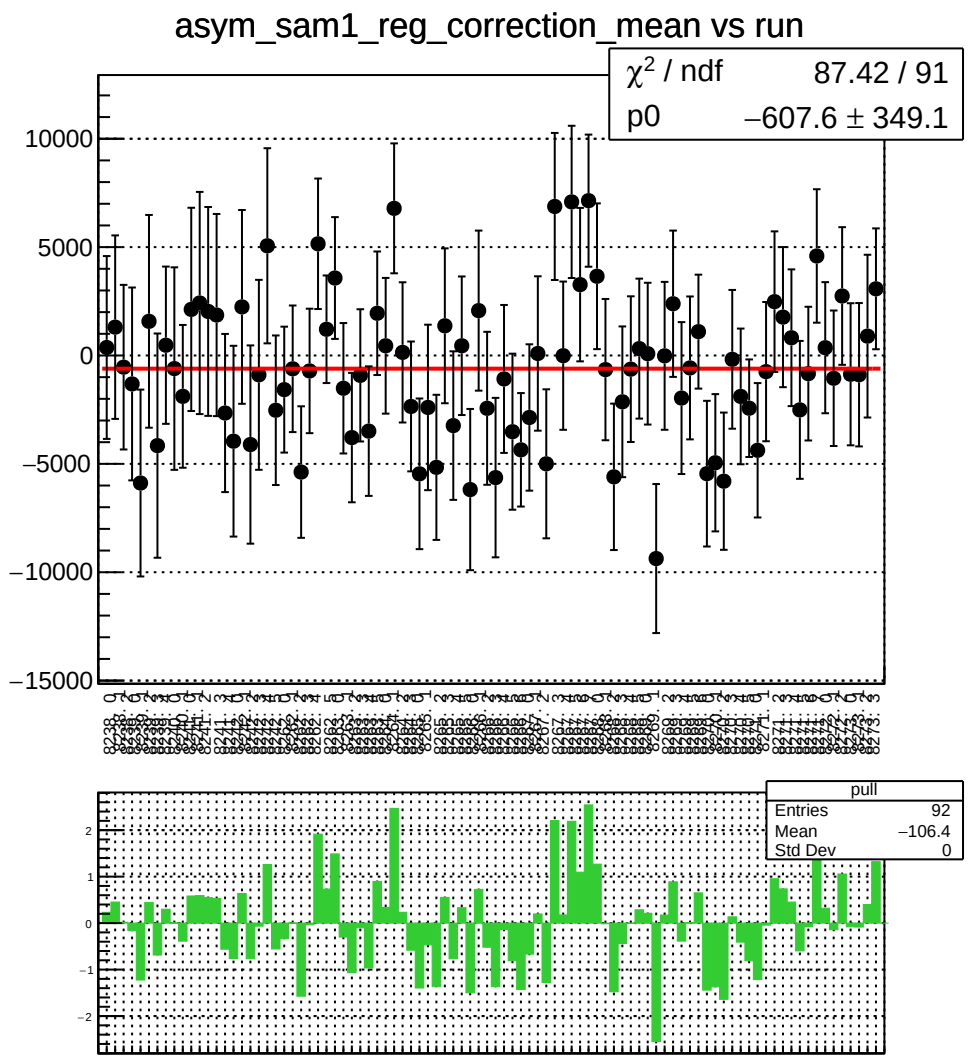

pull1D
Entries 92
Mean 0.4889
Std Dev 4.313
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

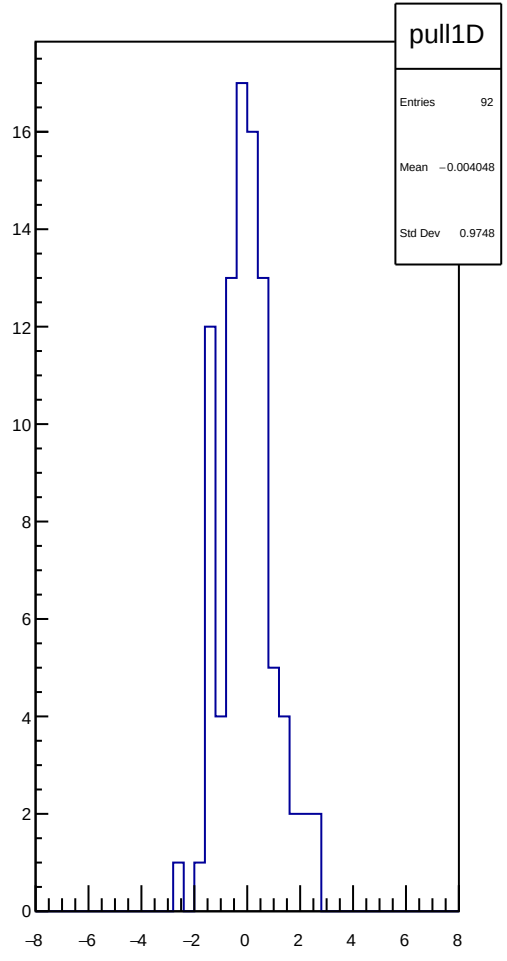
# yield_sam8_rms vs run

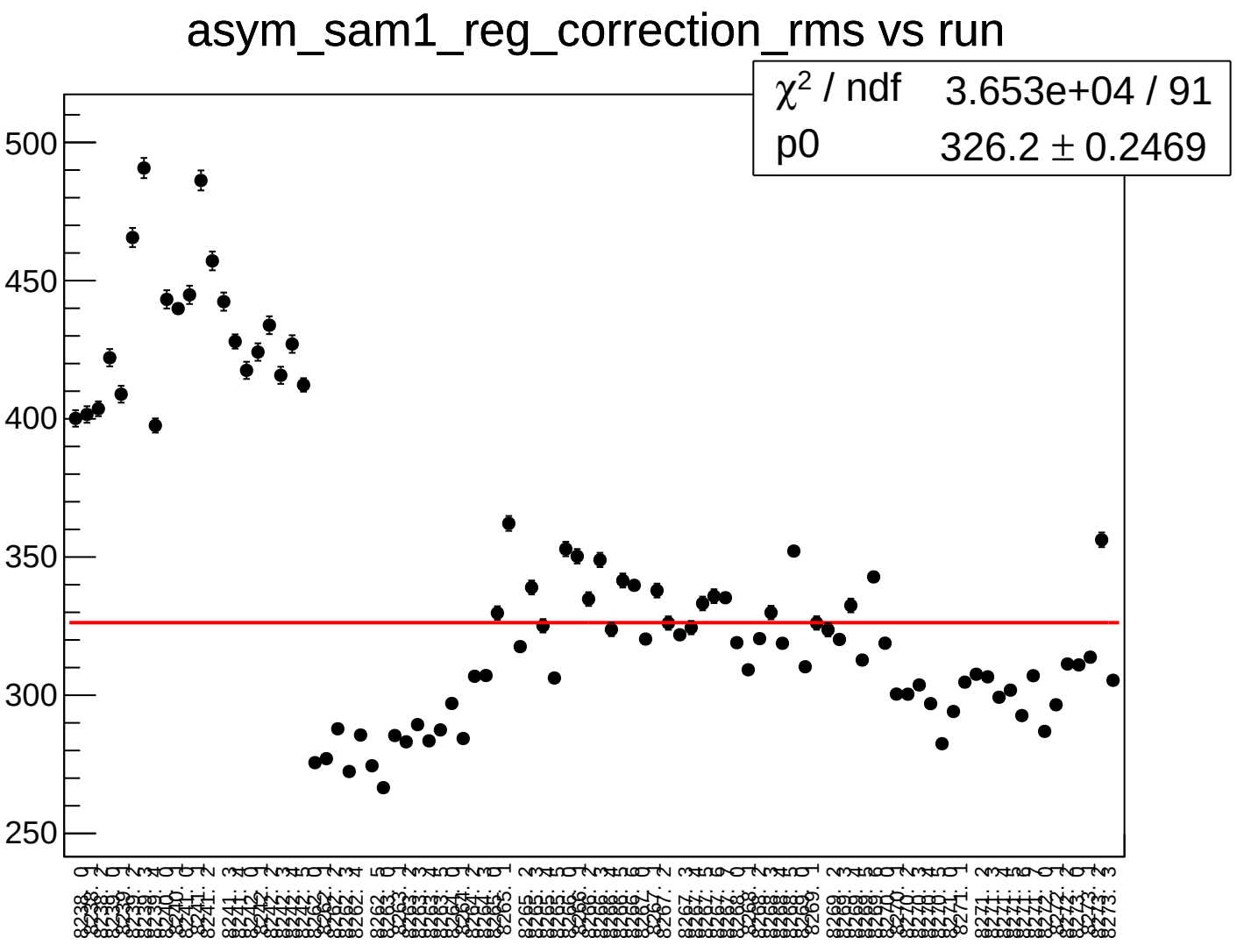


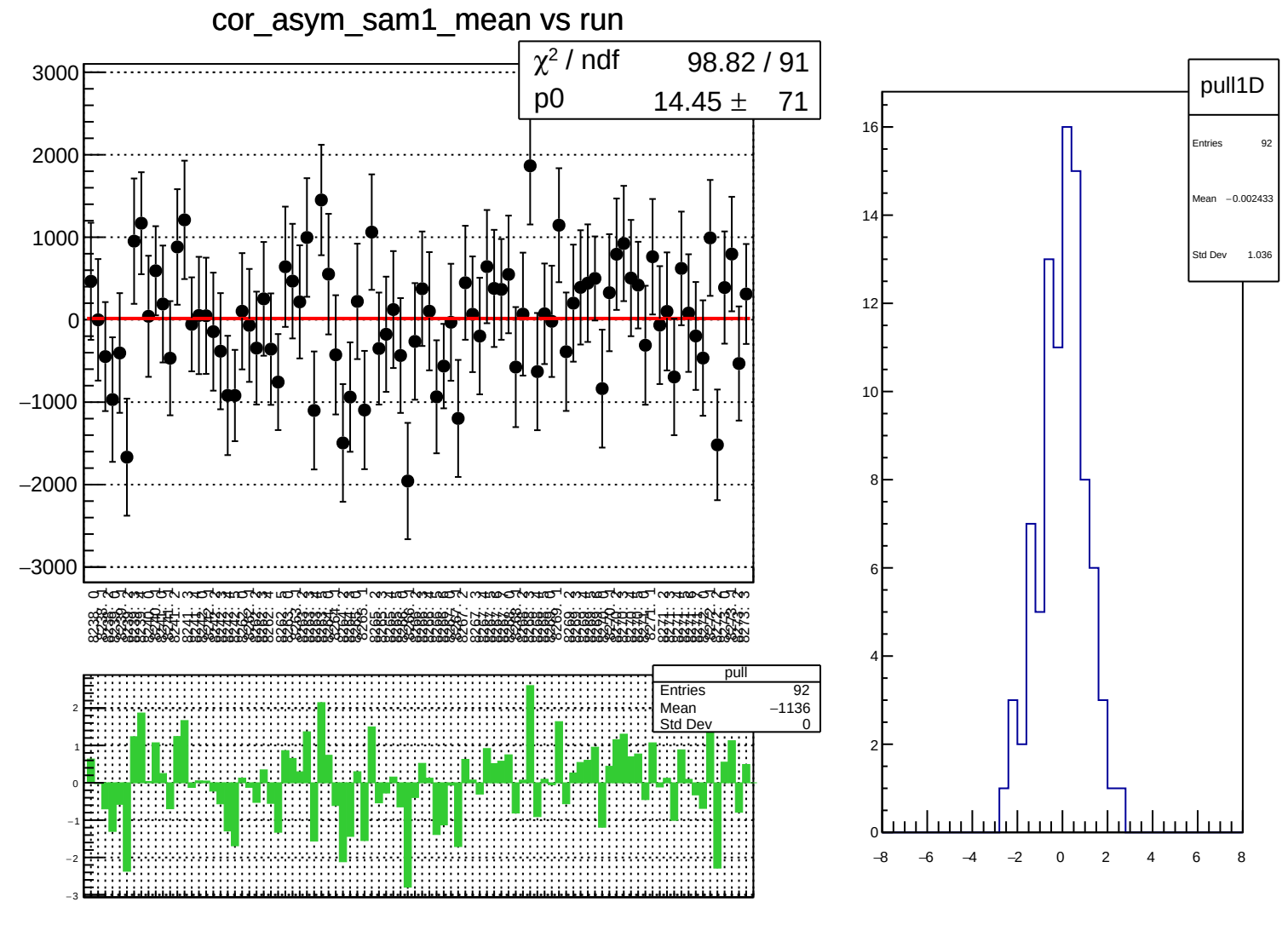

reg_asym_sam1_mean vs run
χ² / ndf 98.82 / 91
p0 14.45 ± 71
pull
Entries 92
Mean −1136
Std Dev 0
pull1D
Entries 92
Mean −0.002434
Std Dev 1.036

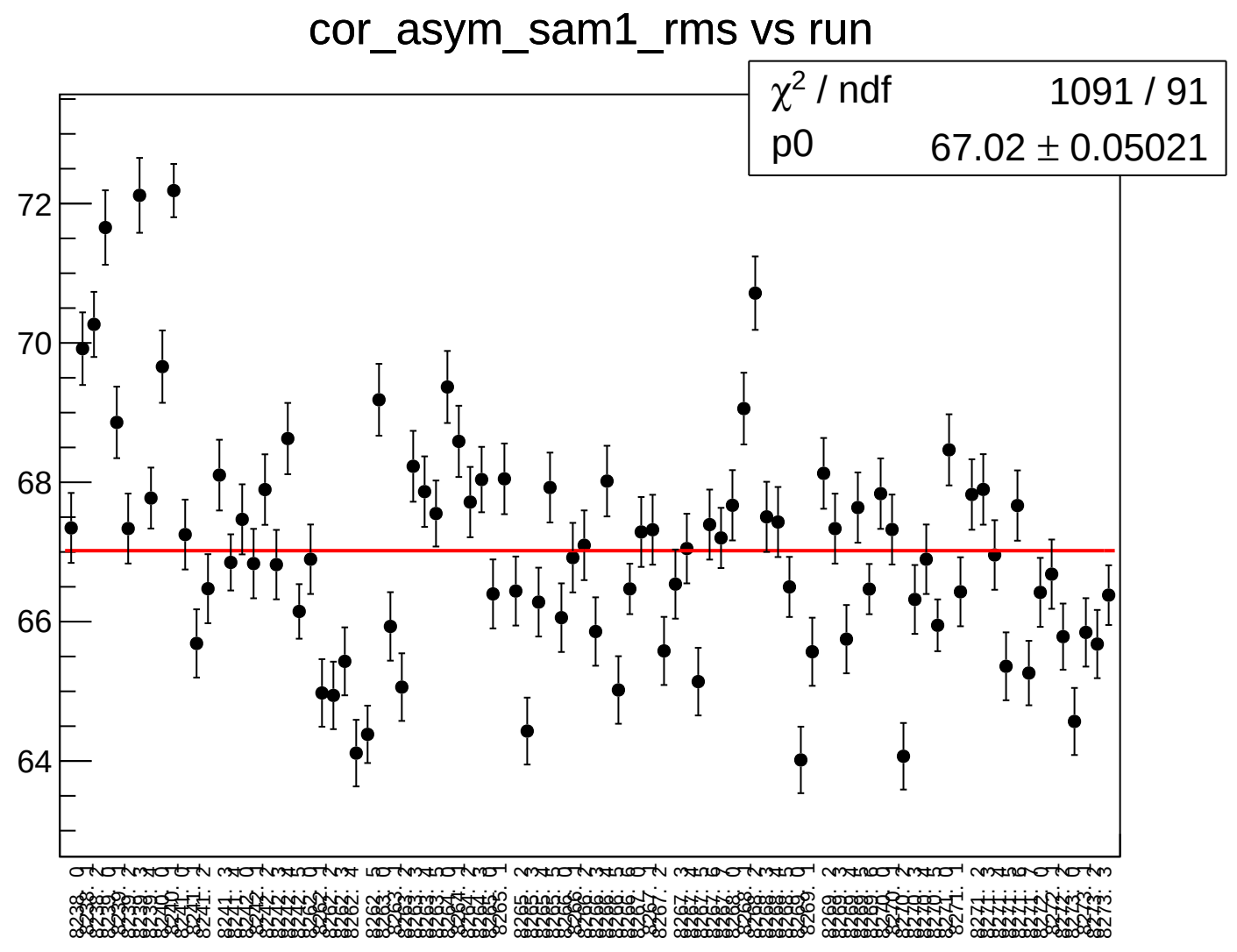

reg_asym_sam1_rms vs run
$\chi^2$ / ndf 1091 / 91
p0 67.02 ± 0.05021
72
70
68
66
64

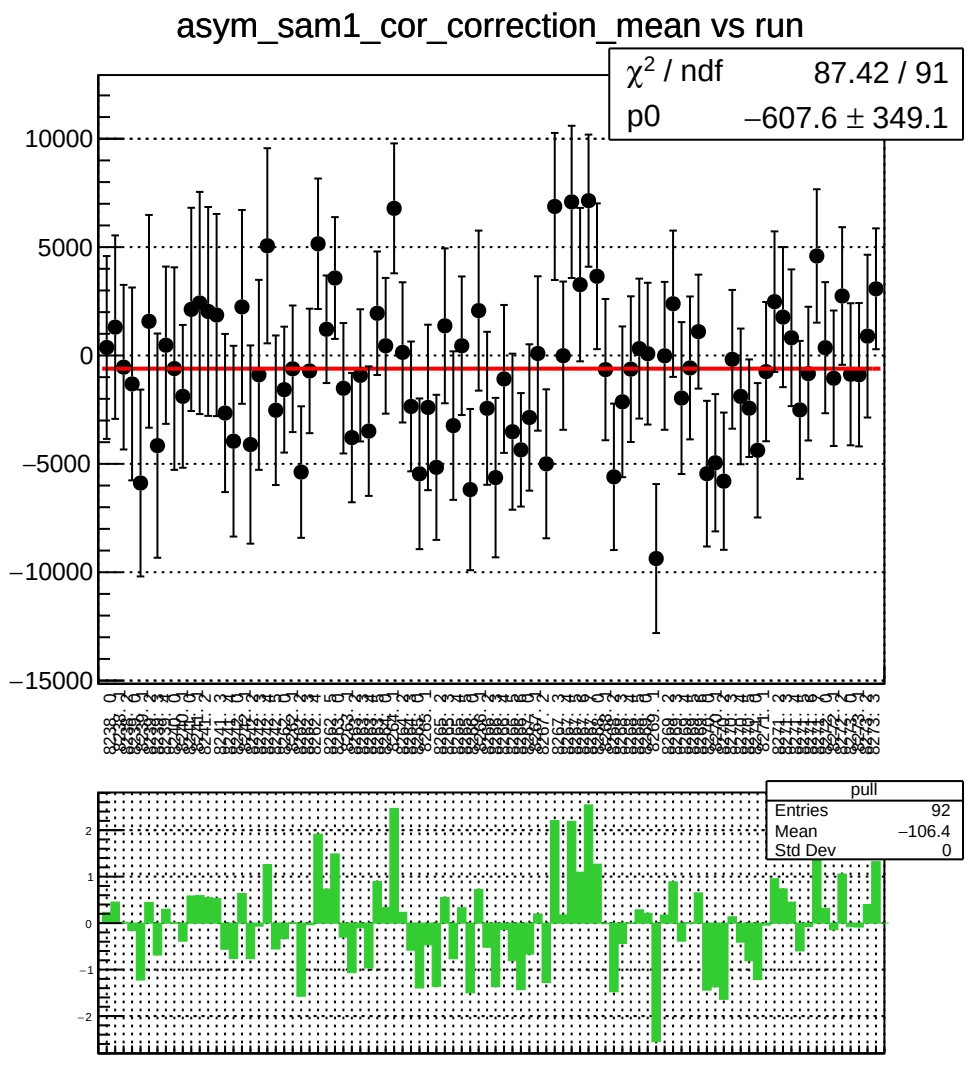

asym_sam1_reg_correction_mean vs run
χ² / ndf 87.42 / 91
p0 −607.6 ± 349.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −106.4
Std Dev 0
2
1
0
−1
−2

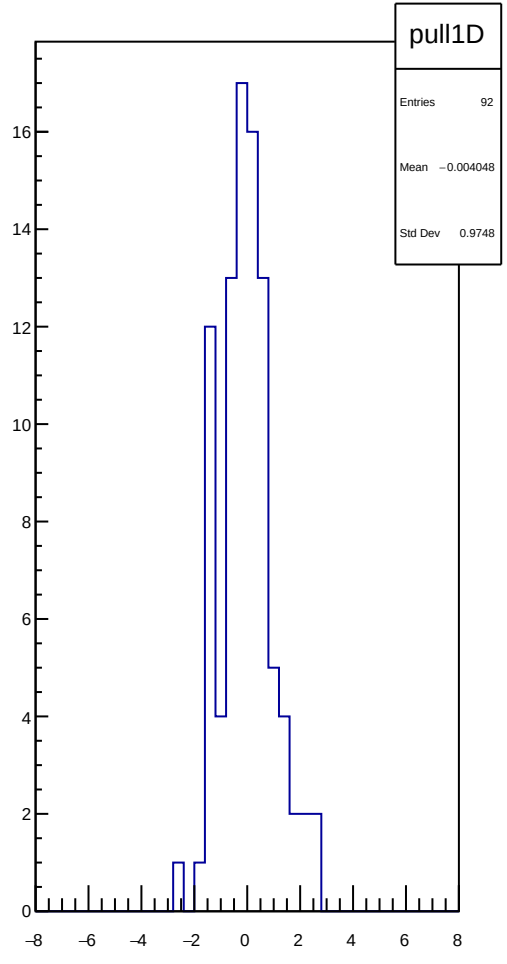

pull1D
Entries 92
Mean −0.004048
Std Dev 0.9748
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

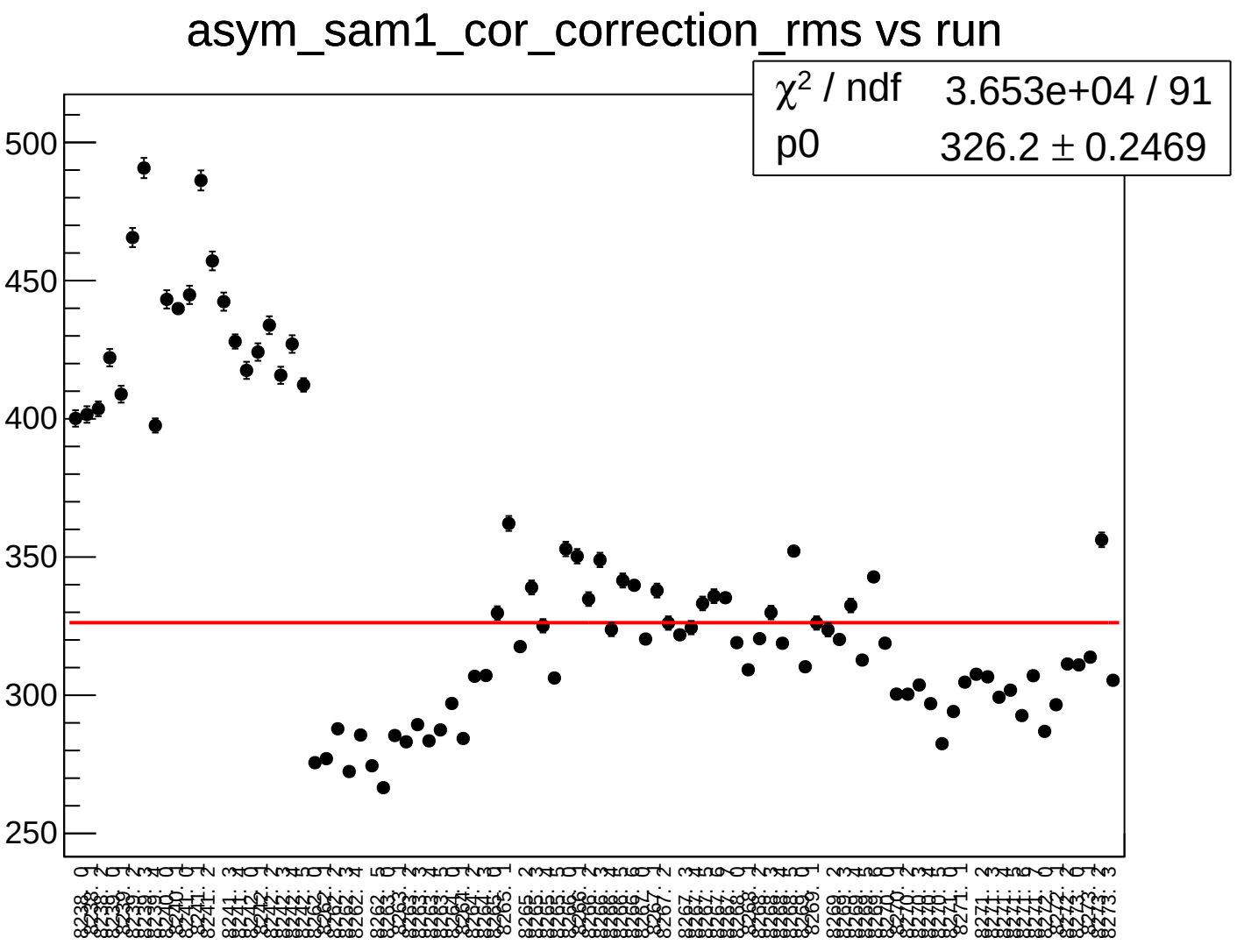

asym_sam1_reg_correction_rms vs run
χ² / ndf 3.653e+04 / 91
p0 326.2 ± 0.2469
500
450
400
350
300
250

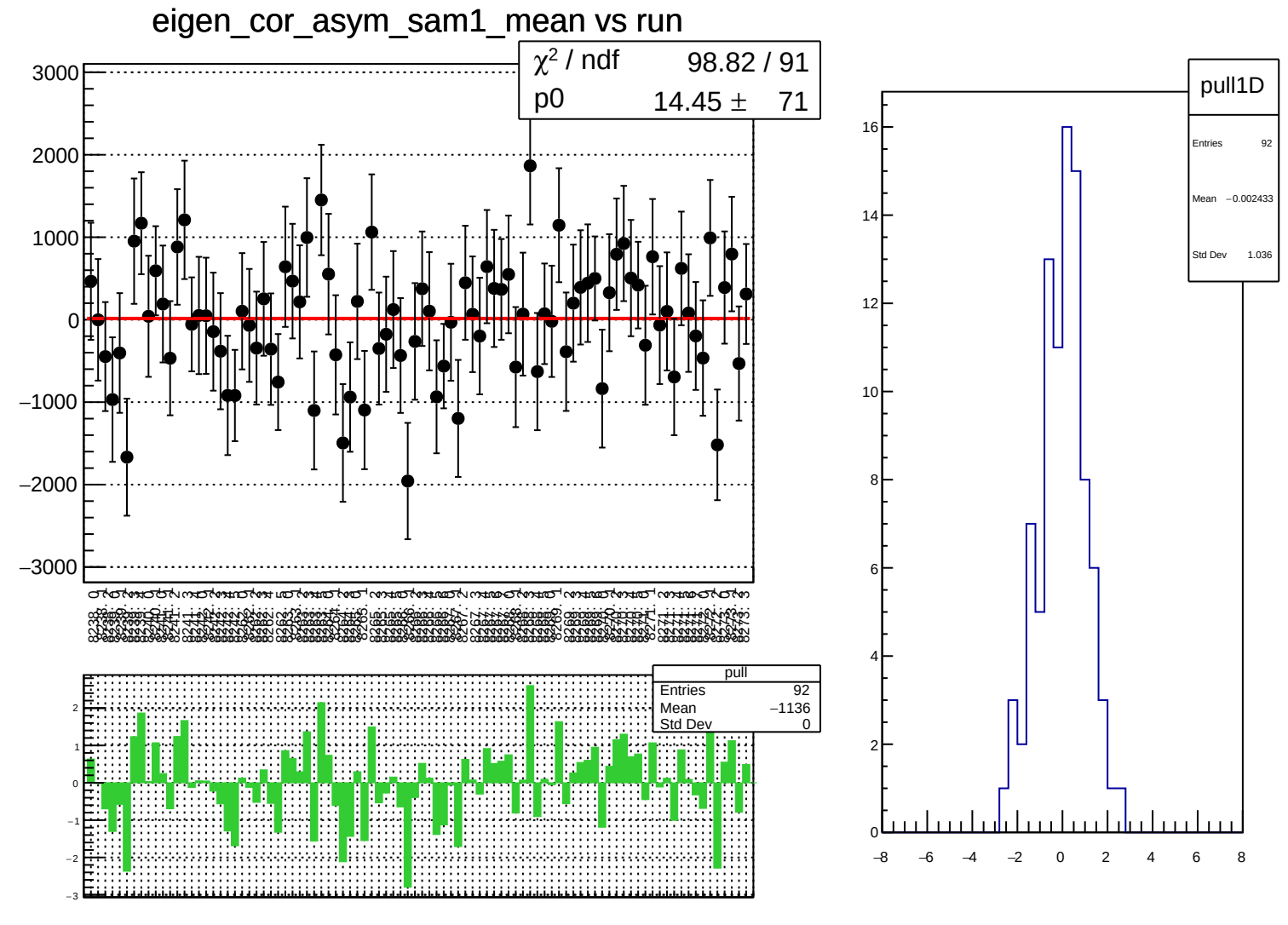

cor_asym_sam1_mean vs run
χ² / ndf 98.82 / 91
p0 14.45 ± 71
pull
Entries 92
Mean −1136
Std Dev 0
pull1D
Entries 92
Mean −0.002433
Std Dev 1.036

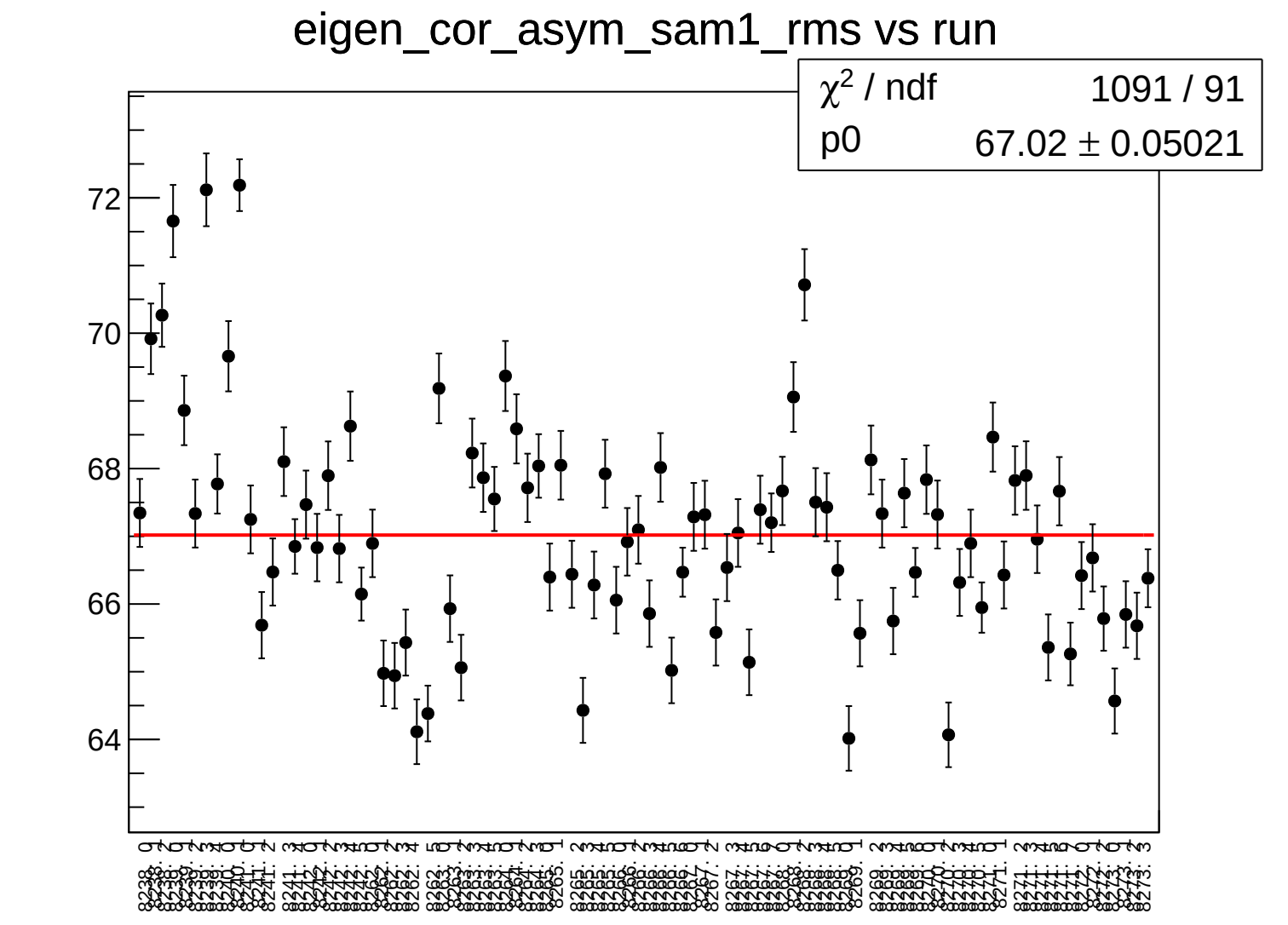

cor_asym_sam1_rms vs run
$\chi^2$ / ndf 1091 / 91
p0 67.02 ± 0.05021
72
70
68
66
64

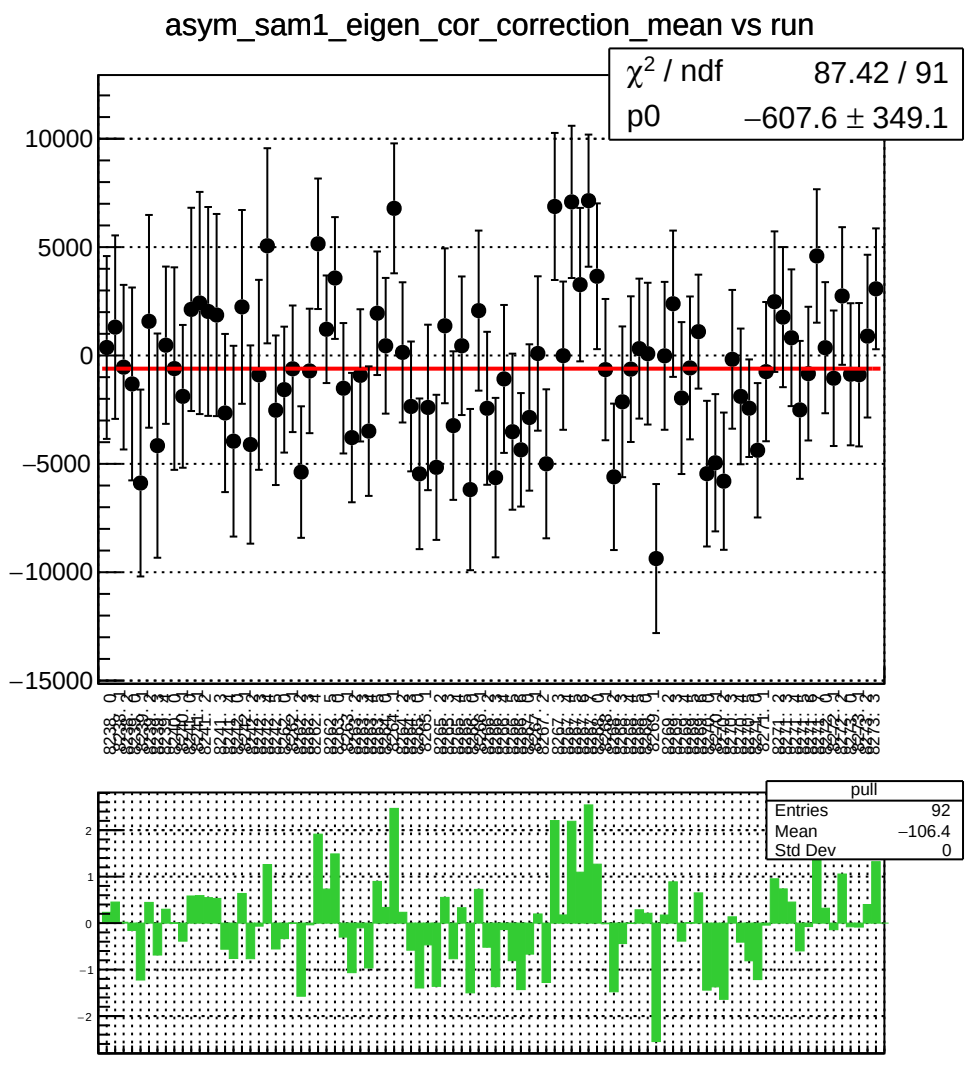

asym_sam1_cor_correction_mean vs run
χ² / ndf 87.42 / 91
p0 −607.6 ± 349.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −106.4
Std Dev 0
2
1
0
−1
−2

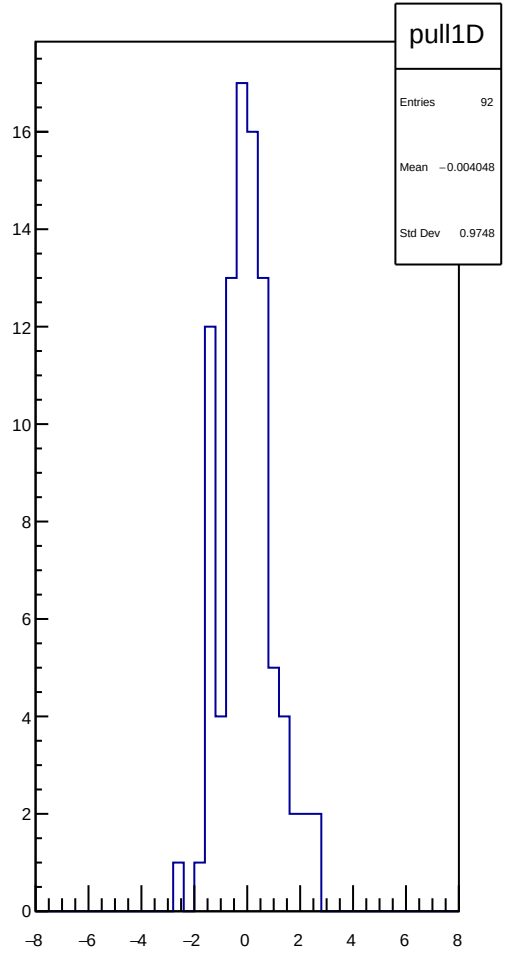

pull1D
Entries 92
Mean −0.004048
Std Dev 0.9748
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

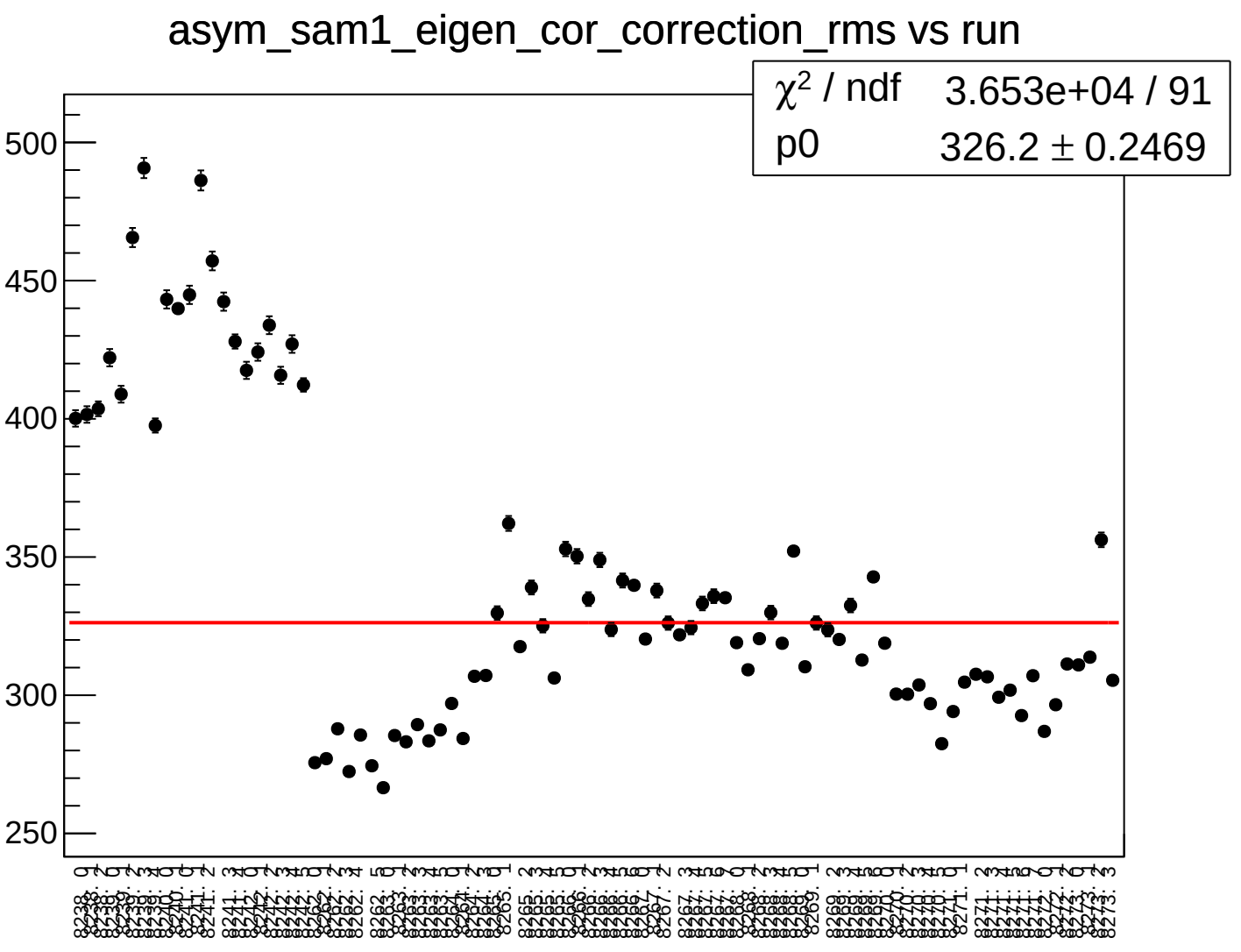

asym_sam1_cor_correction_rms vs run
χ² / ndf 3.653e+04 / 91
p0 326.2 ± 0.2469
500
450
400
350
300
250

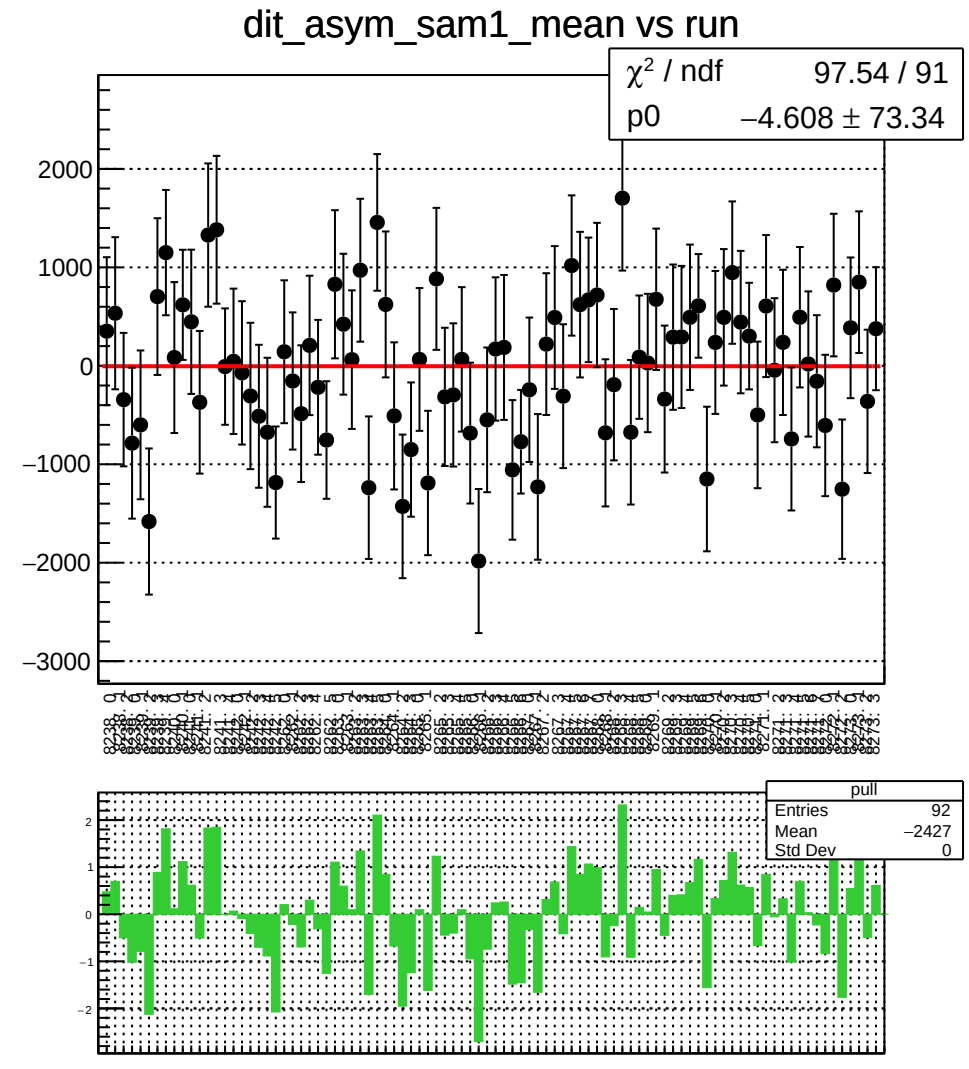

eigen_cor_asym_sam1_mean vs run
χ² / ndf 98.82 / 91
p0 14.45 ± 71
pull
Entries 92
Mean −1136
Std Dev 0
pull1D
Entries 92
Mean −0.002433
Std Dev 1.036

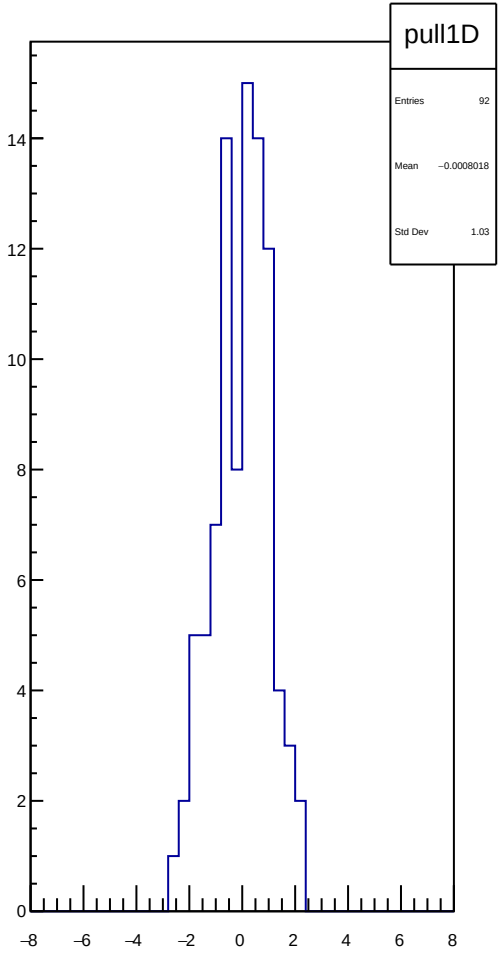

eigen_cor_asym_sam1_rms vs run
χ² / ndf 1091 / 91
p0 67.02 ± 0.05021
72
70
68
66
64

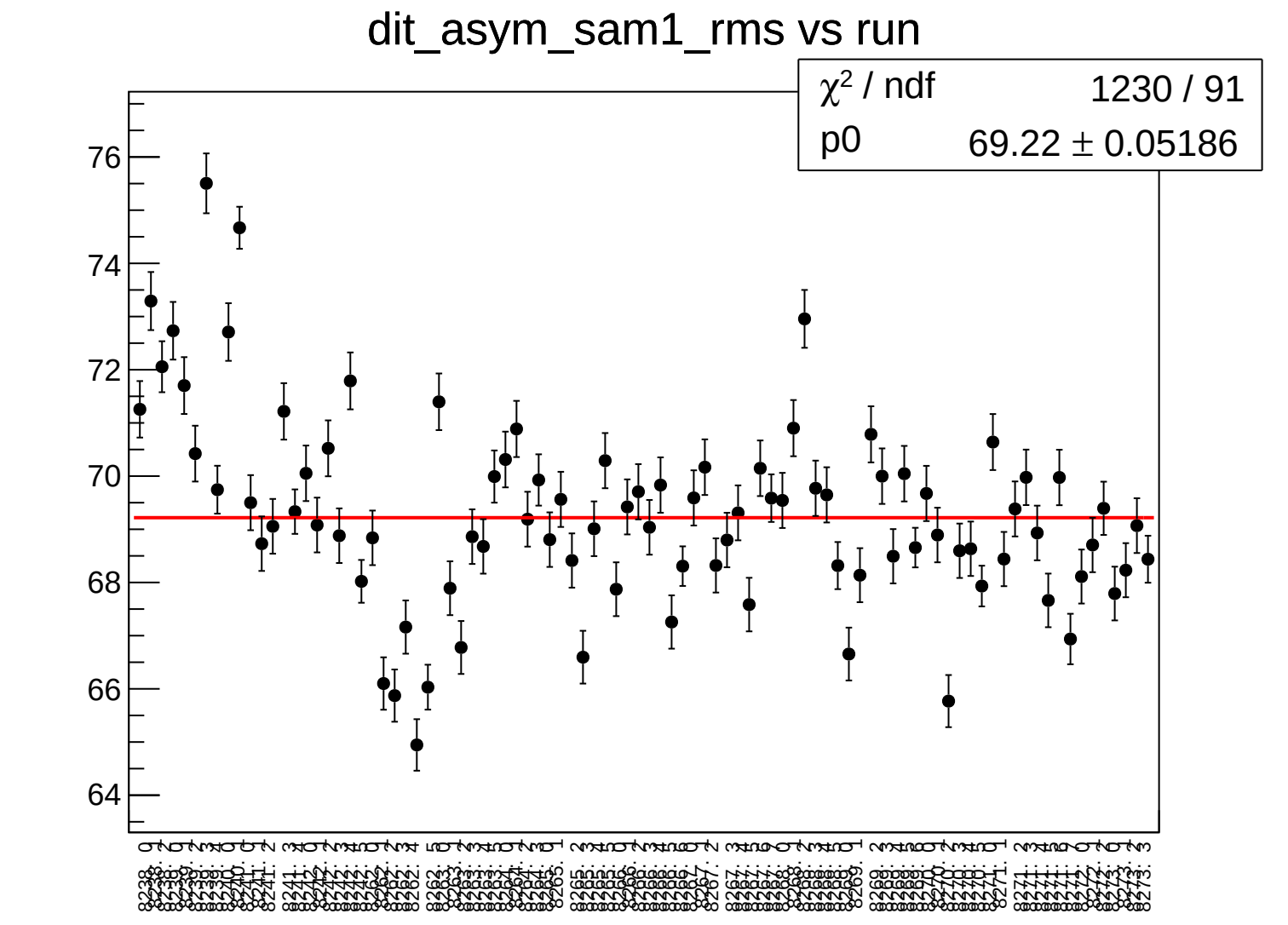

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 87.42 / 91
p0 −607.6 ± 349.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −106.4
Std Dev 0
2
1
0
−1
−2

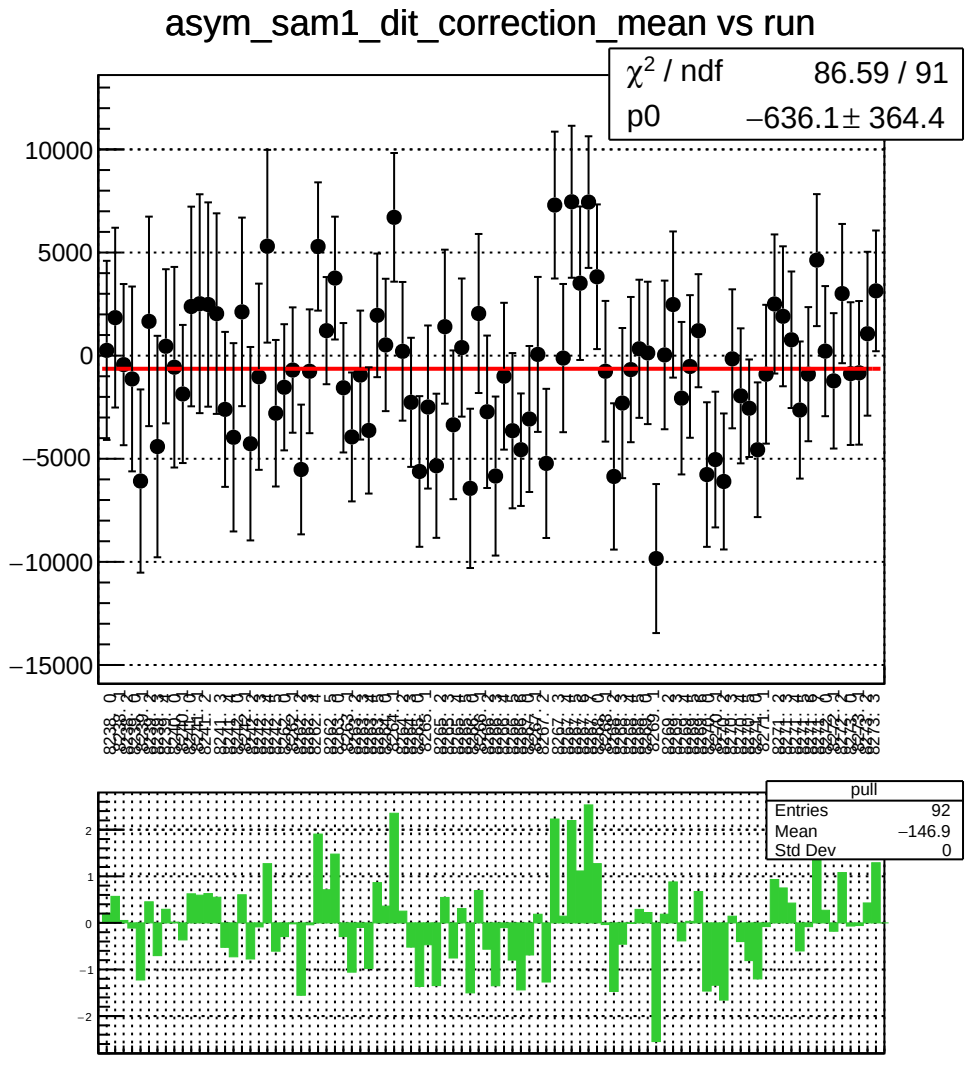

pull1D
Entries 92
Mean −0.004048
Std Dev 0.9748
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

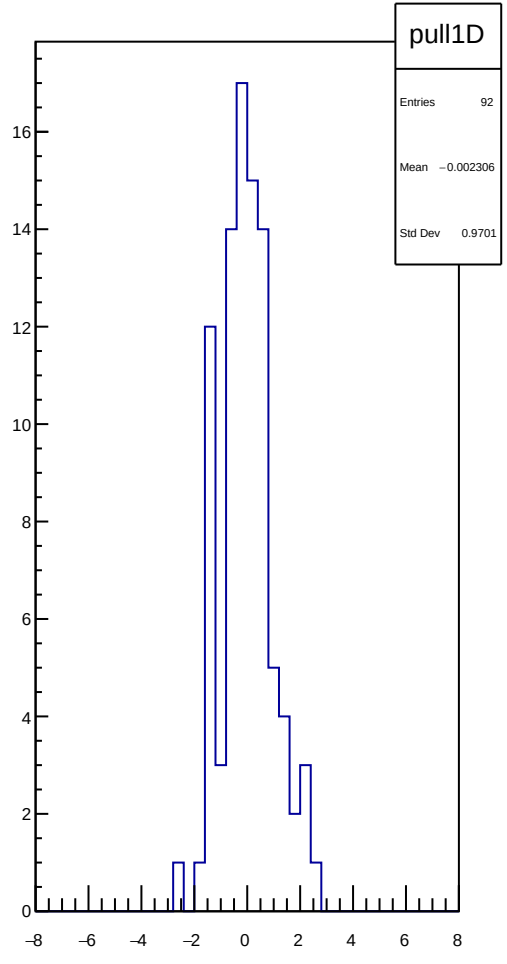

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 3.653e+04 / 91
p0 326.2 ± 0.2469
500
450
400
350
300
250

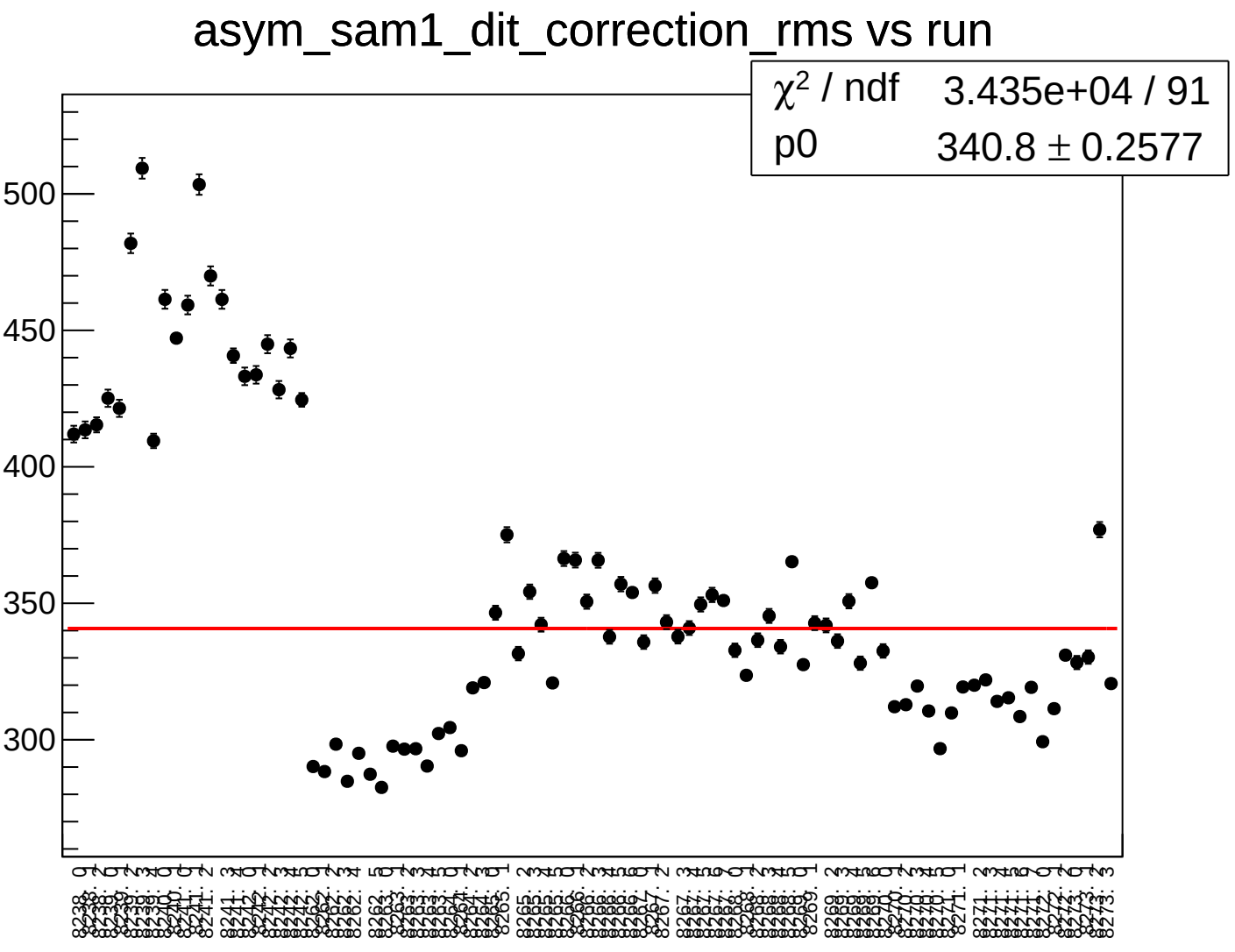

dit_asym_sam1_mean vs run
χ² / ndf 97.54 / 91
p0 −4.608 ± 73.34
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −2427
Std Dev 0
2
1
0
−1
−2

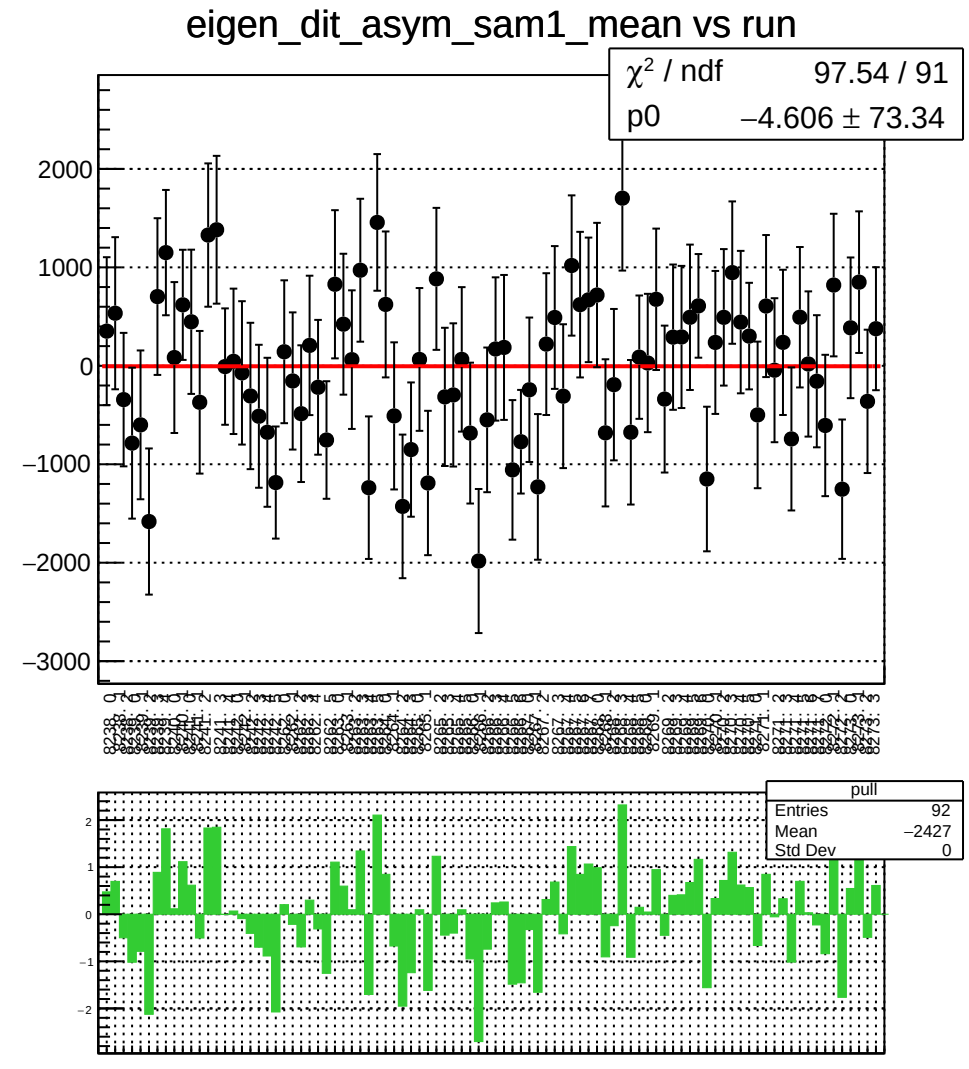

pull1D
Entries 92
Mean −0.0008018
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

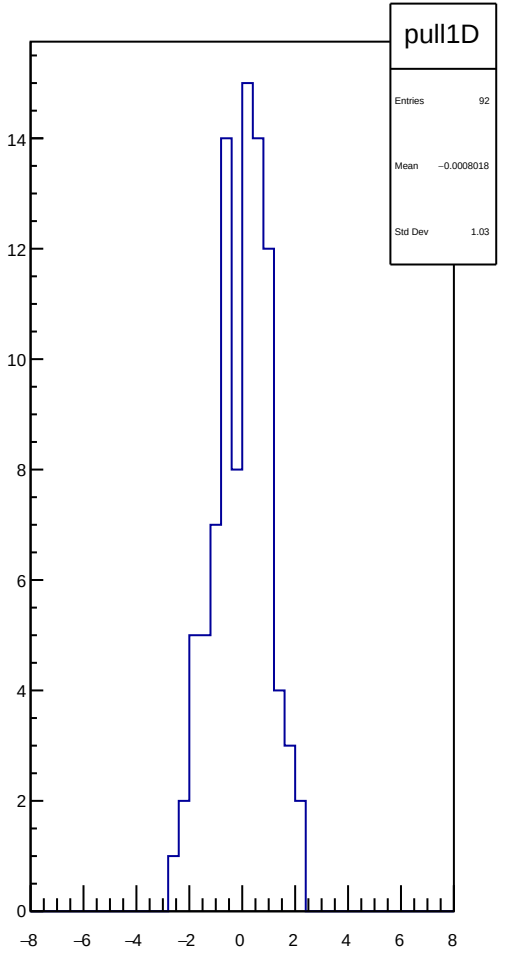

dit_asym_sam1_rms vs run
$\chi^2$ / ndf 1230 / 91
p0 69.22 ± 0.05186
76
74
72
70
68
66
64

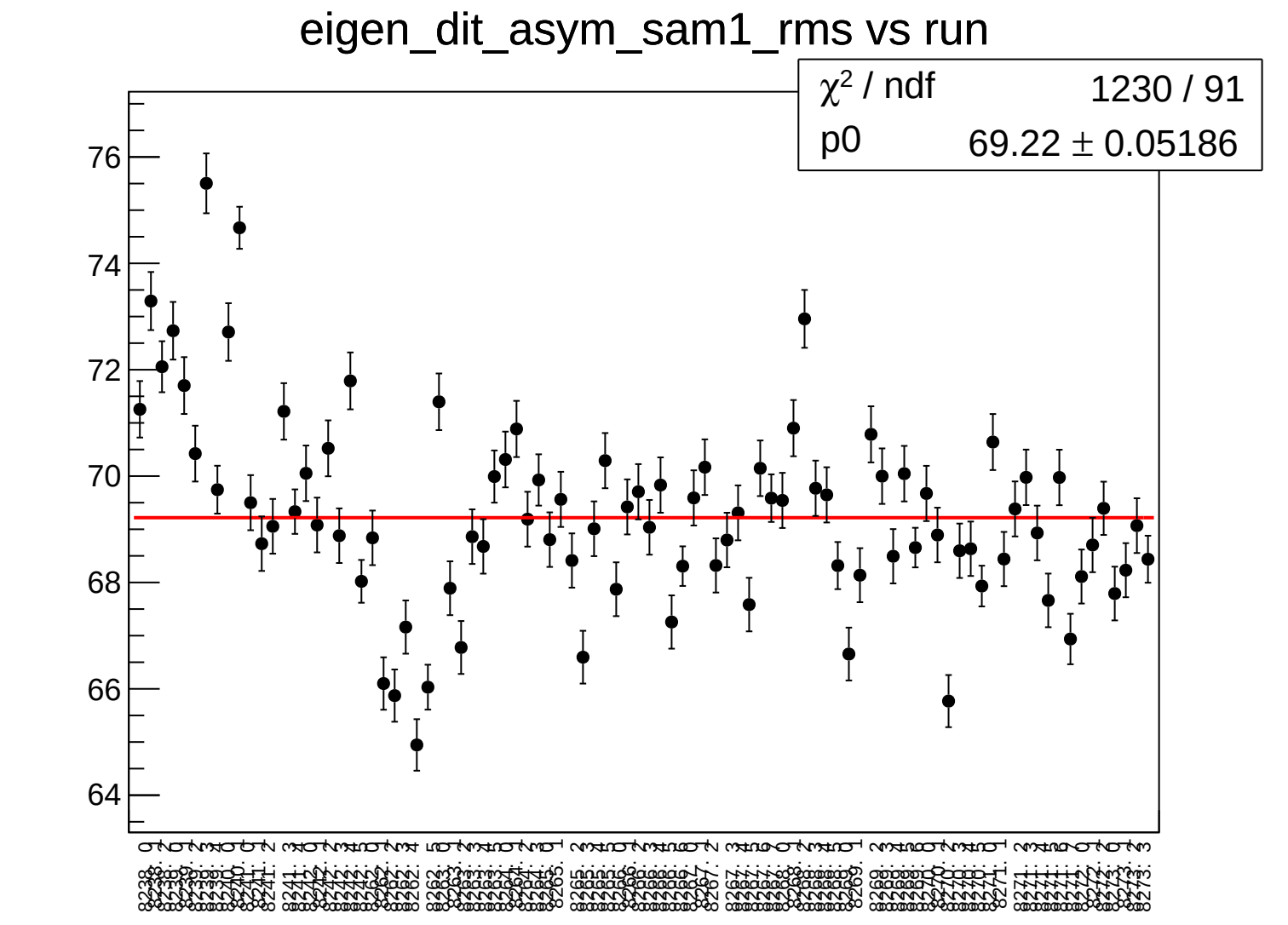

asym_sam1_dit_correction_mean vs run
χ² / ndf 86.59 / 91
p0 −636.1 ± 364.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −146.9
Std Dev 0
2
1
0
−1
−2

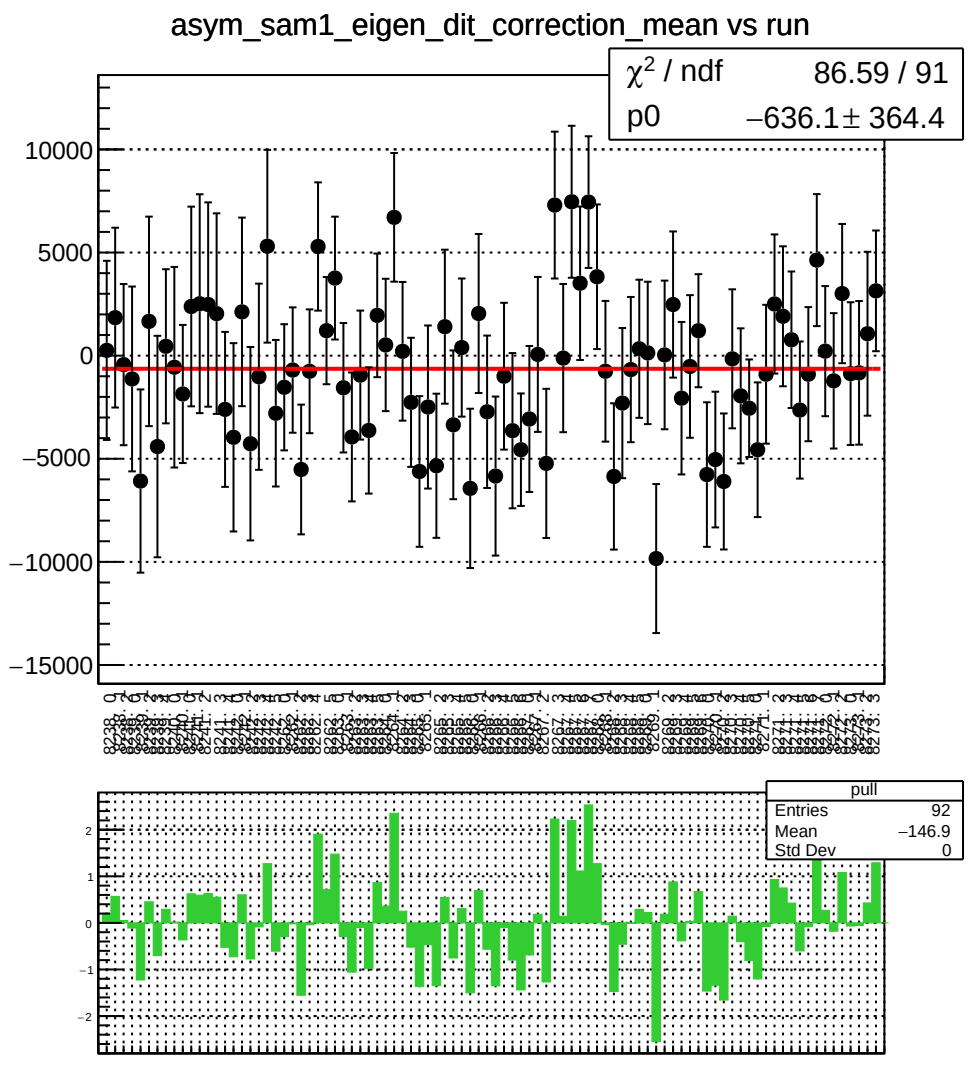

pull1D
Entries 92
Mean −0.002306
Std Dev 0.9701
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

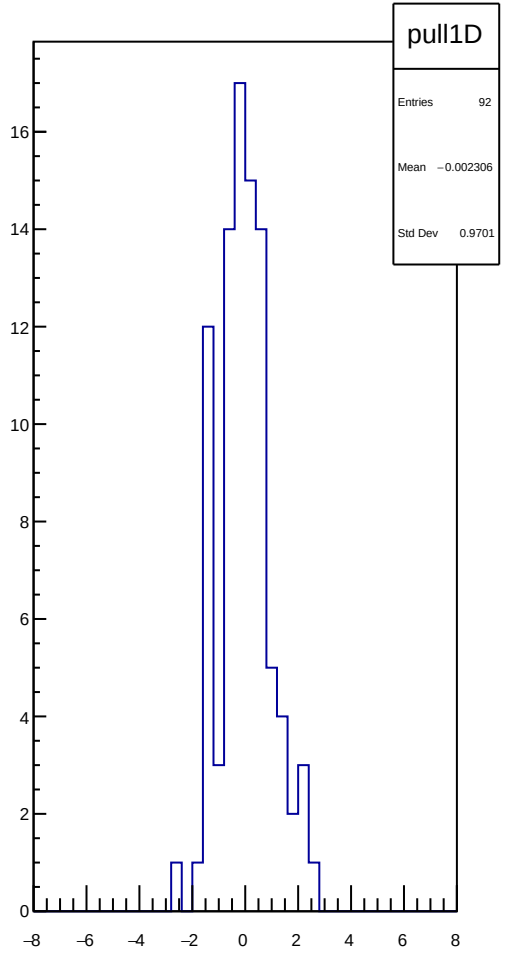

asym_sam1_dit_correction_rms vs run
χ² / ndf 3.435e+04 / 91
p0 340.8 ± 0.2577
500
450
400
350
300

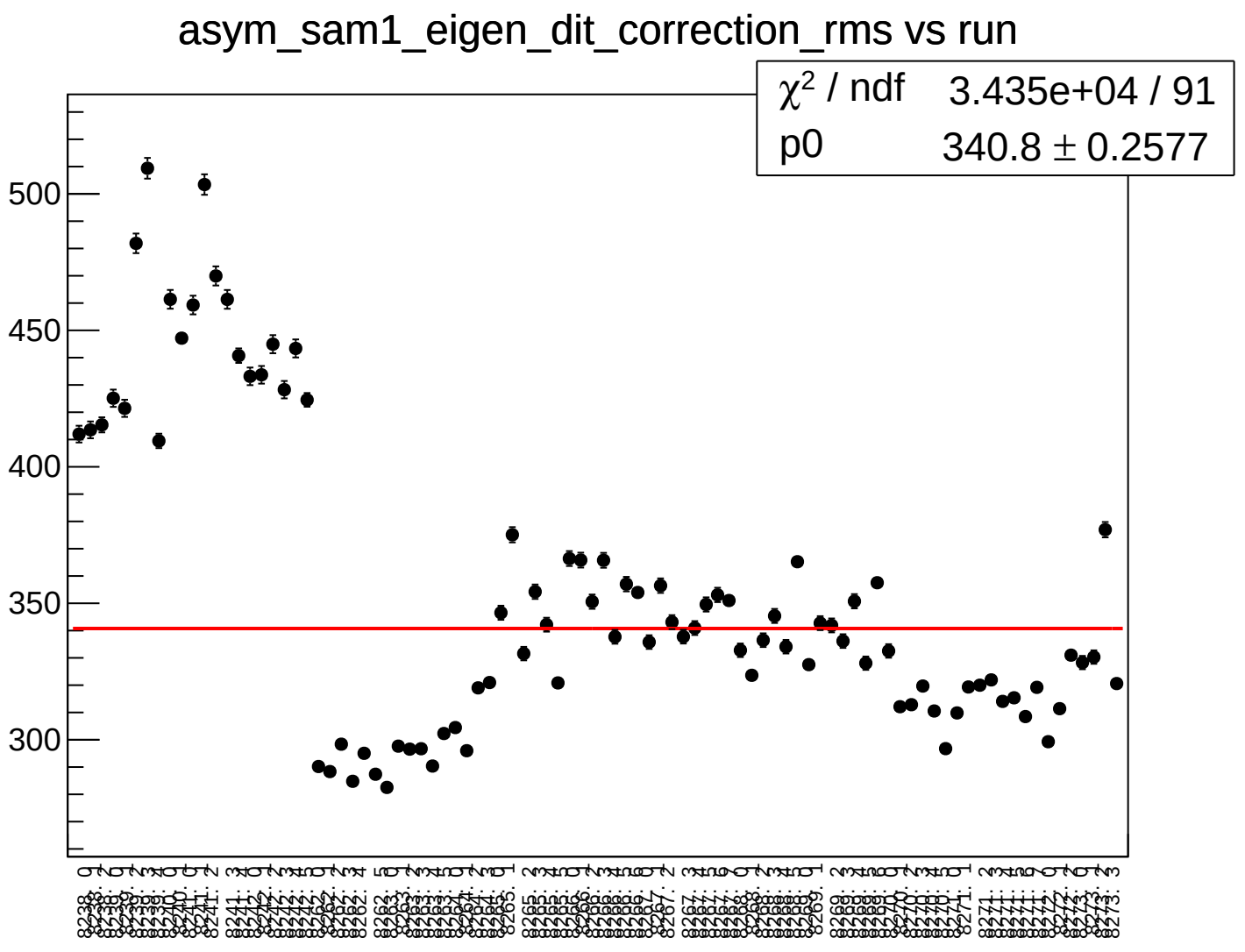

eigen_dit_asym_sam1_mean vs run
χ² / ndf 97.54 / 91
p0 −4.606 ± 73.34
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −2427
Std Dev 0
2
1
0
−1
−2

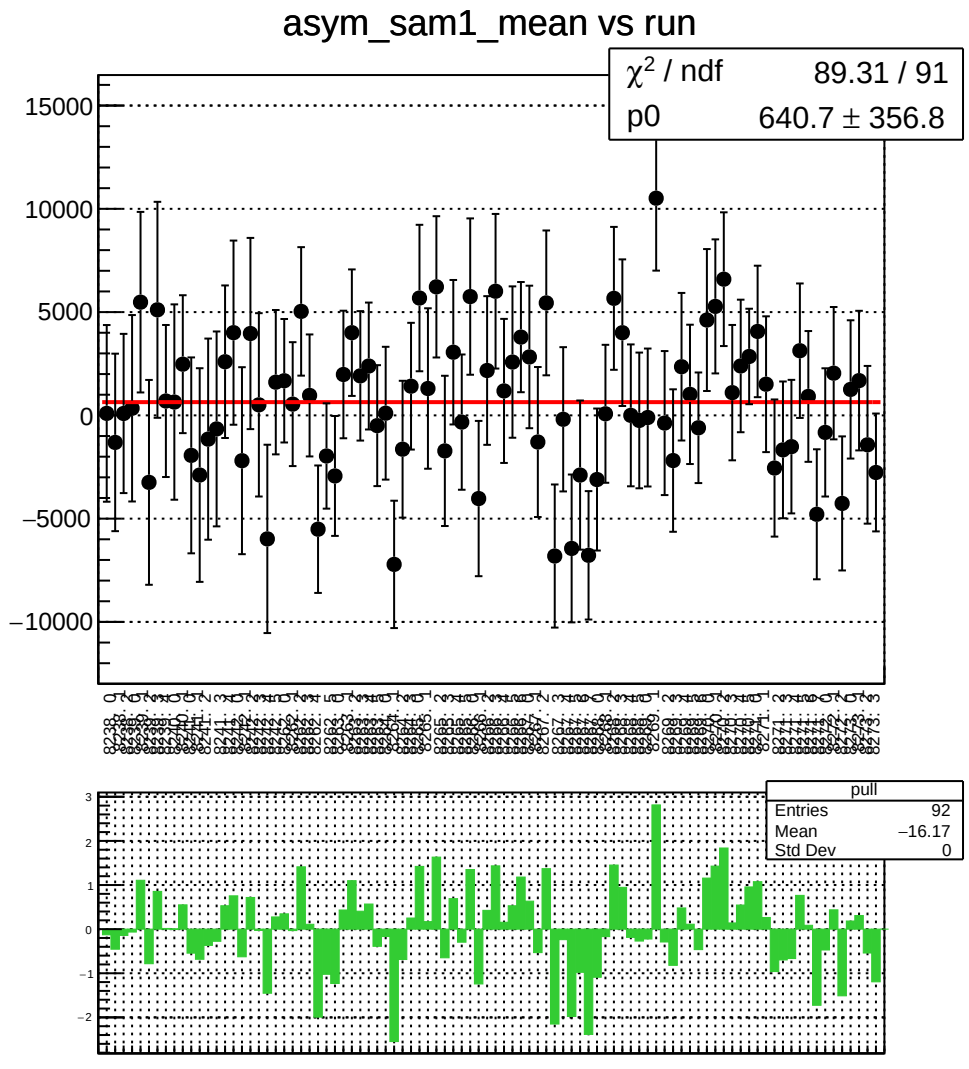

pull1D
Entries 92
Mean −0.0008018
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

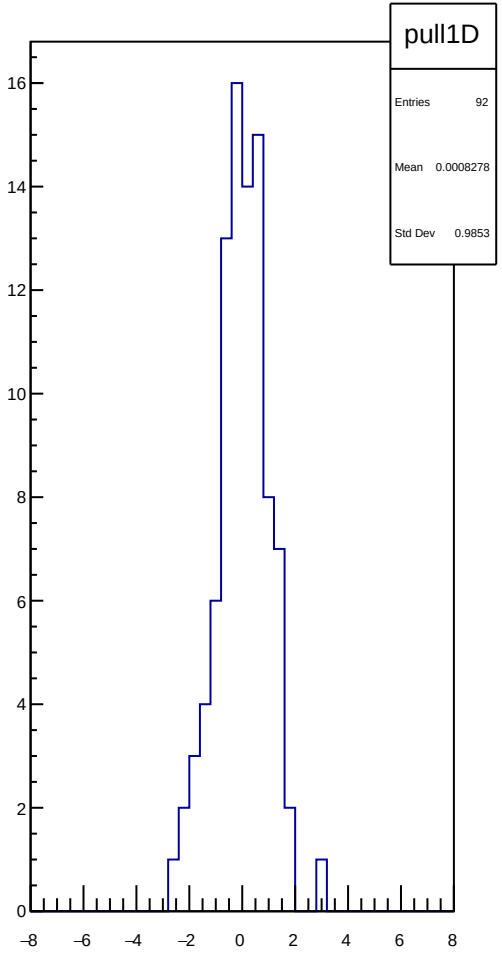

eigen_dit_asym_sam1_rms vs run
$\chi^2$ / ndf 1230 / 91
p0 69.22 ± 0.05186
76
74
72
70
68
66
64

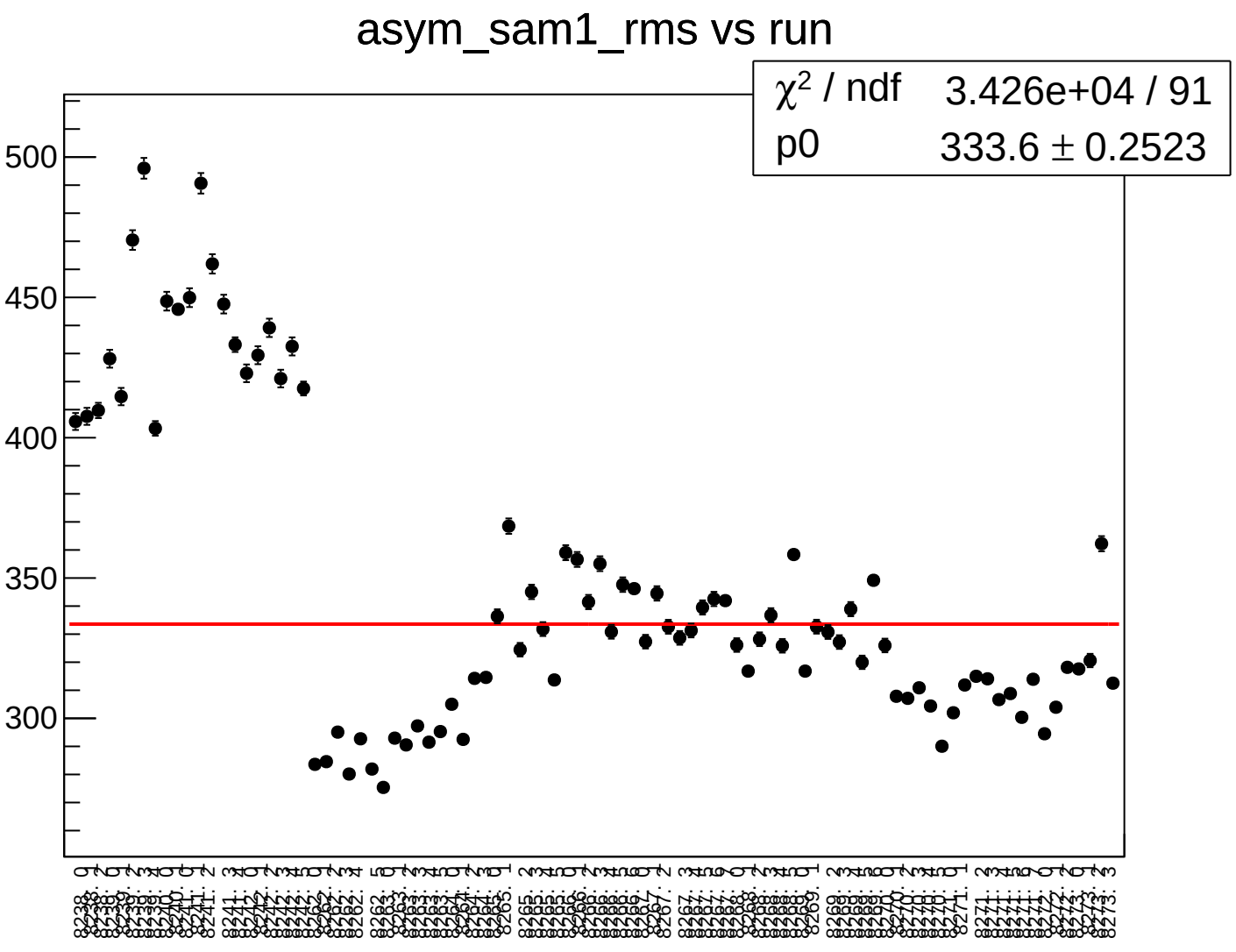

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 86.59 / 91
p0 −636.1 ± 364.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −146.9
Std Dev 0
2
1
0
−1
−2

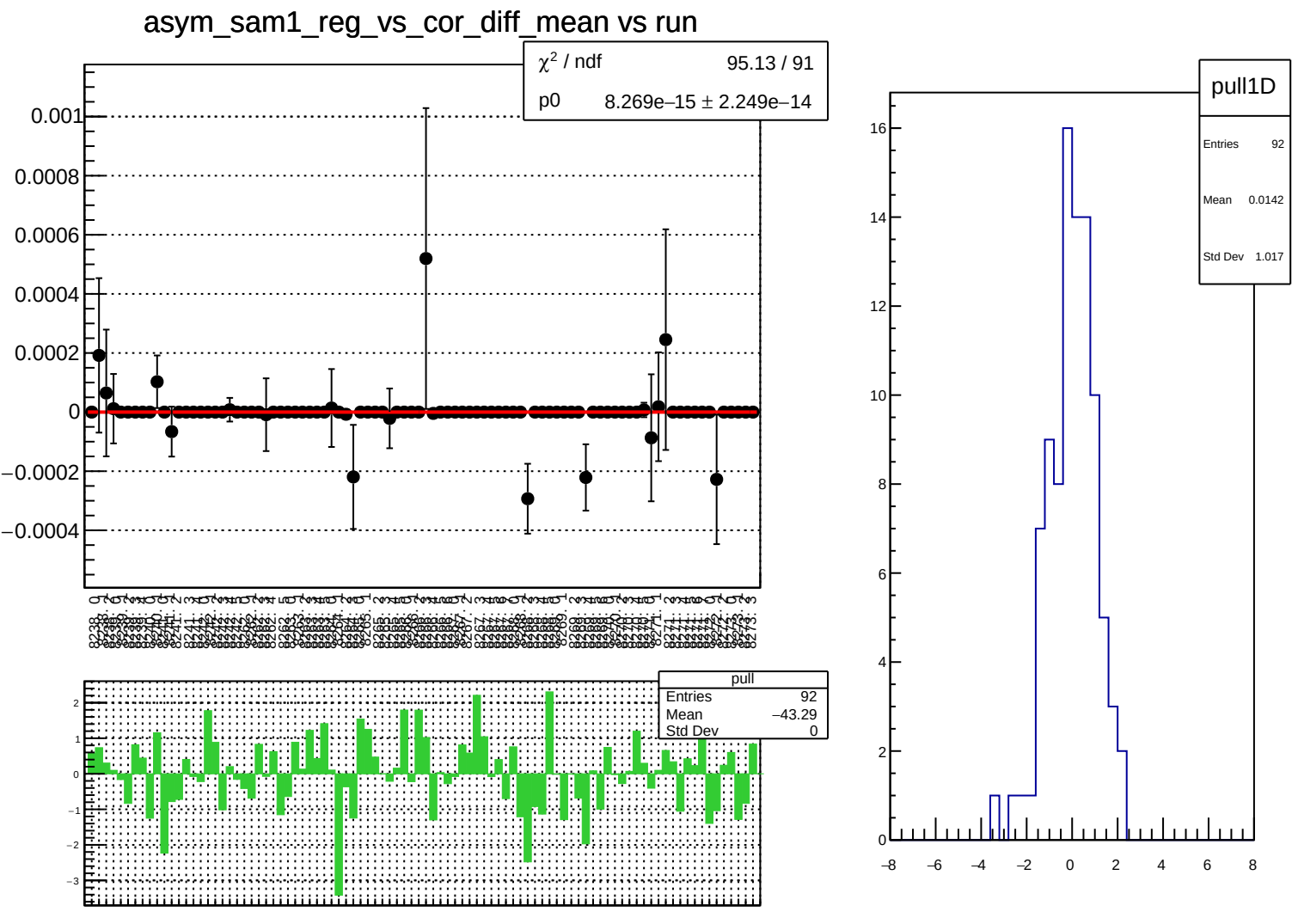

pull1D
Entries 92
Mean −0.002306
Std Dev 0.9701
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

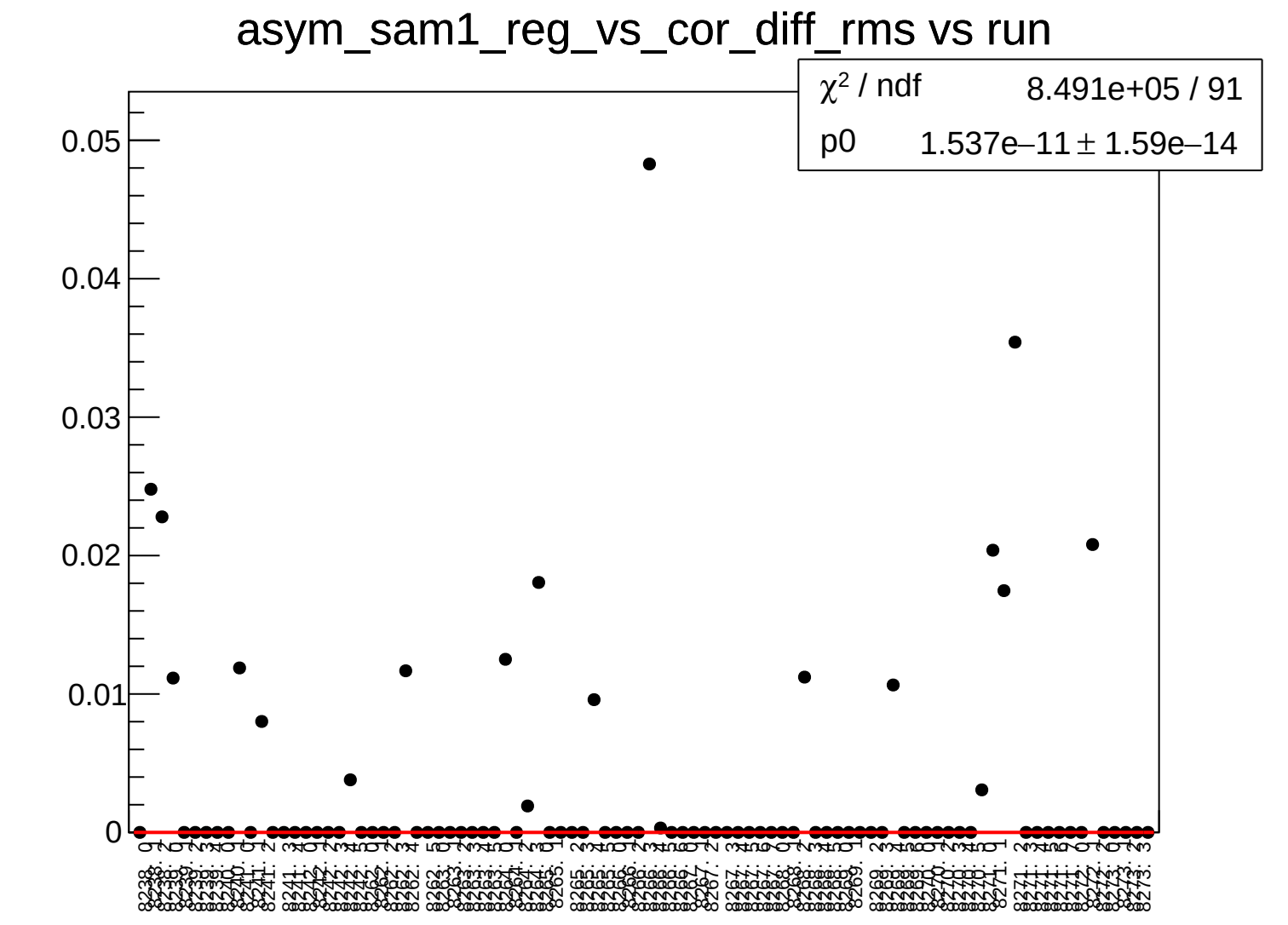

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 3.435e+04 / 91
p0 340.8 ± 0.2577
500
450
400
350
300

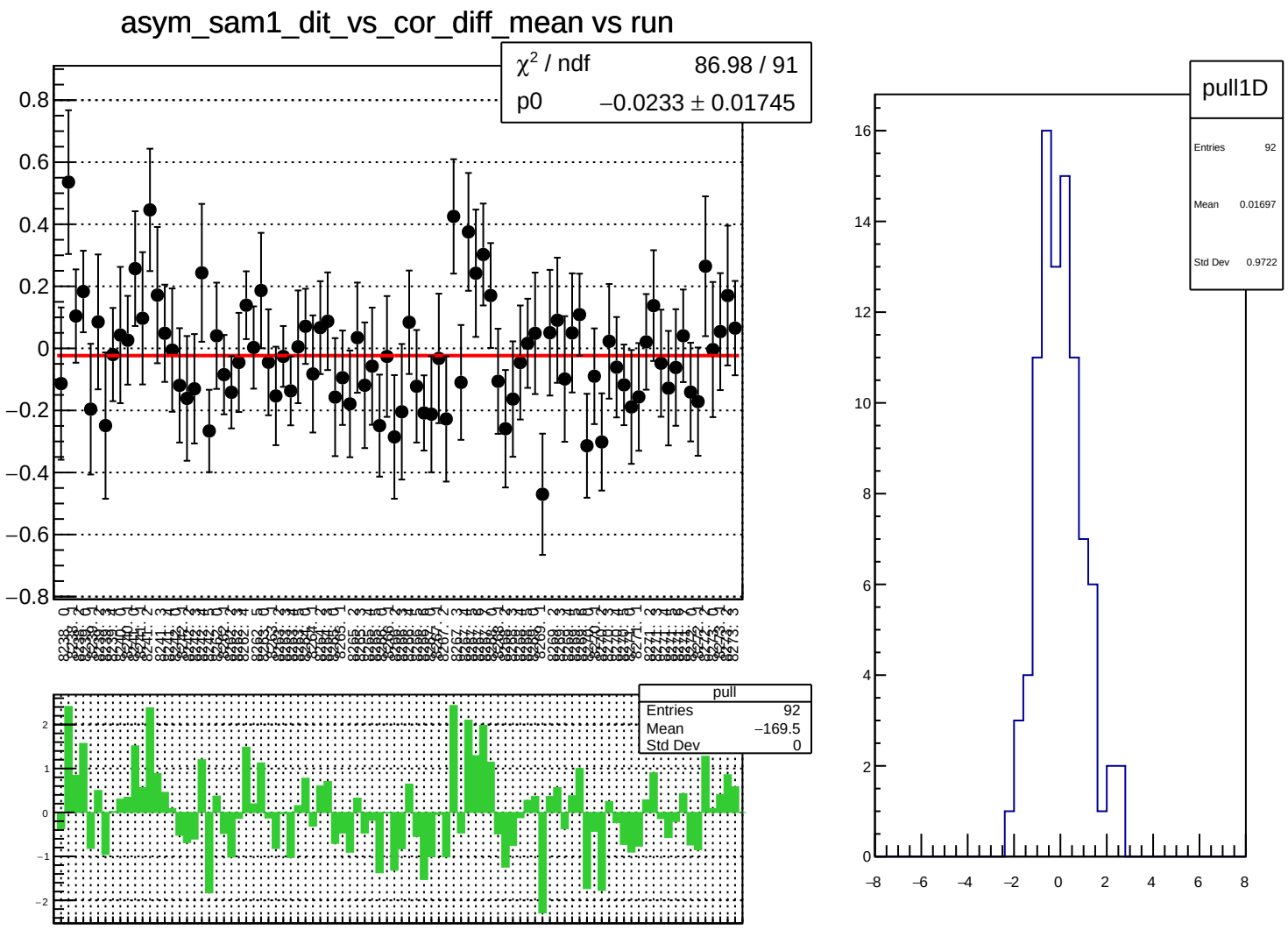

asym_sam1_mean vs run
χ² / ndf 89.31 / 91
p0 640.7 ± 356.8
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −16.17
Std Dev 0
3
2
1
0
−1
−2

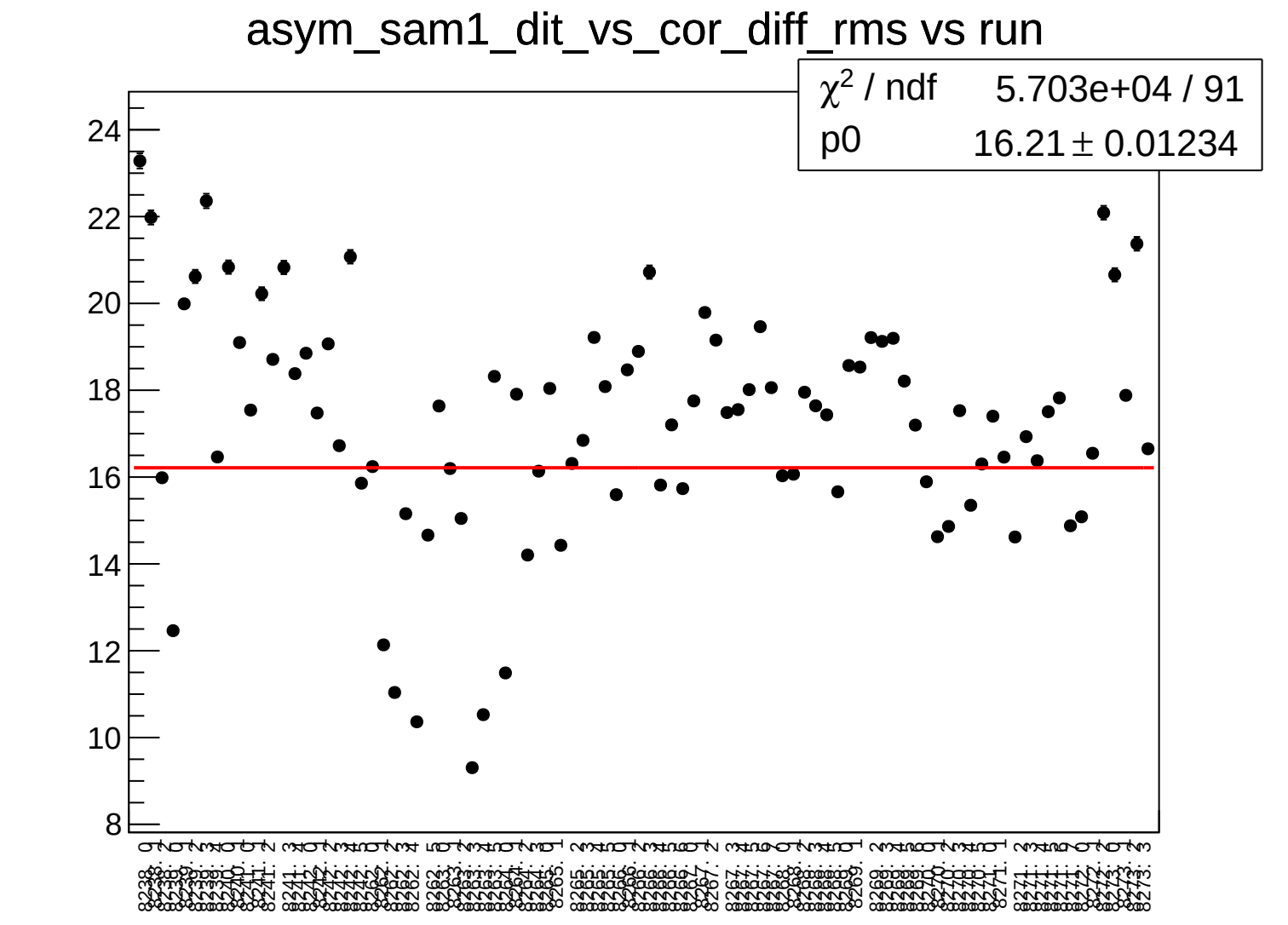

pull1D
Entries 92
Mean 0.0008278
Std Dev 0.9853
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

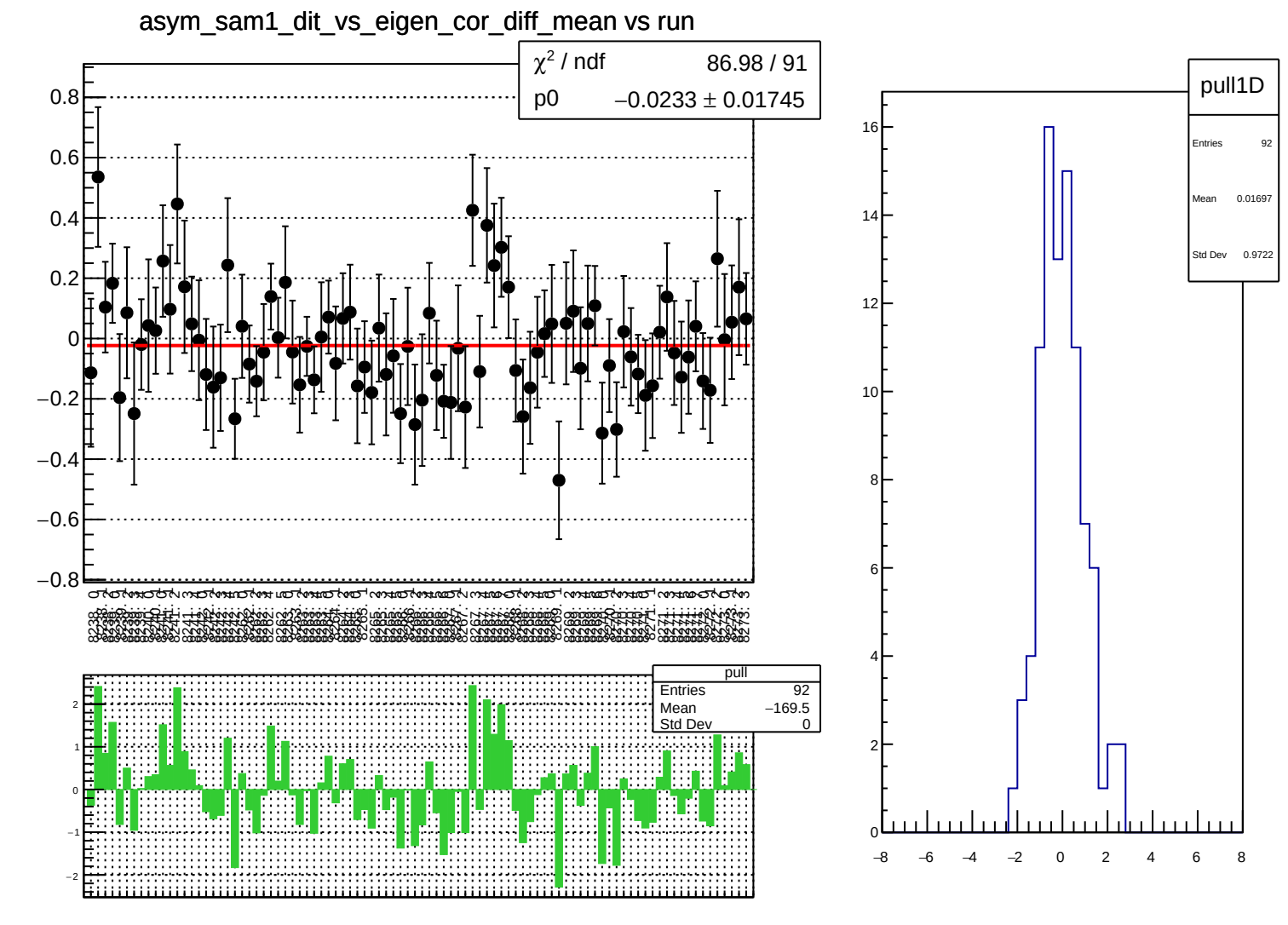

asym_sam1_rms vs run
χ² / ndf 3.426e+04 / 91
p0 333.6 ± 0.2523
500
450
400
350
300

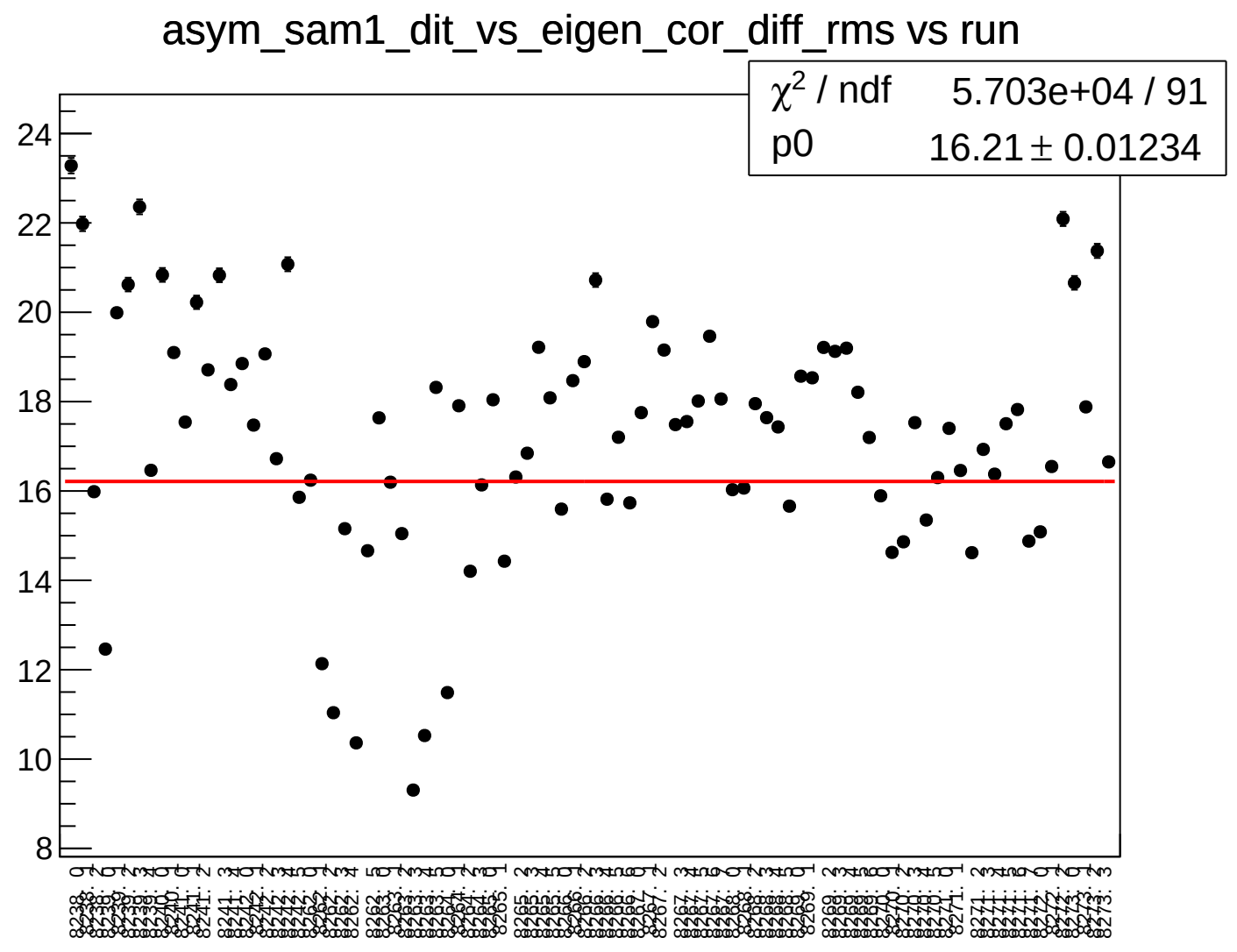

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 95.13 / 91
p0 8.269e−15 ± 2.249e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
pull
Entries 92
Mean −43.29
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.0142
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

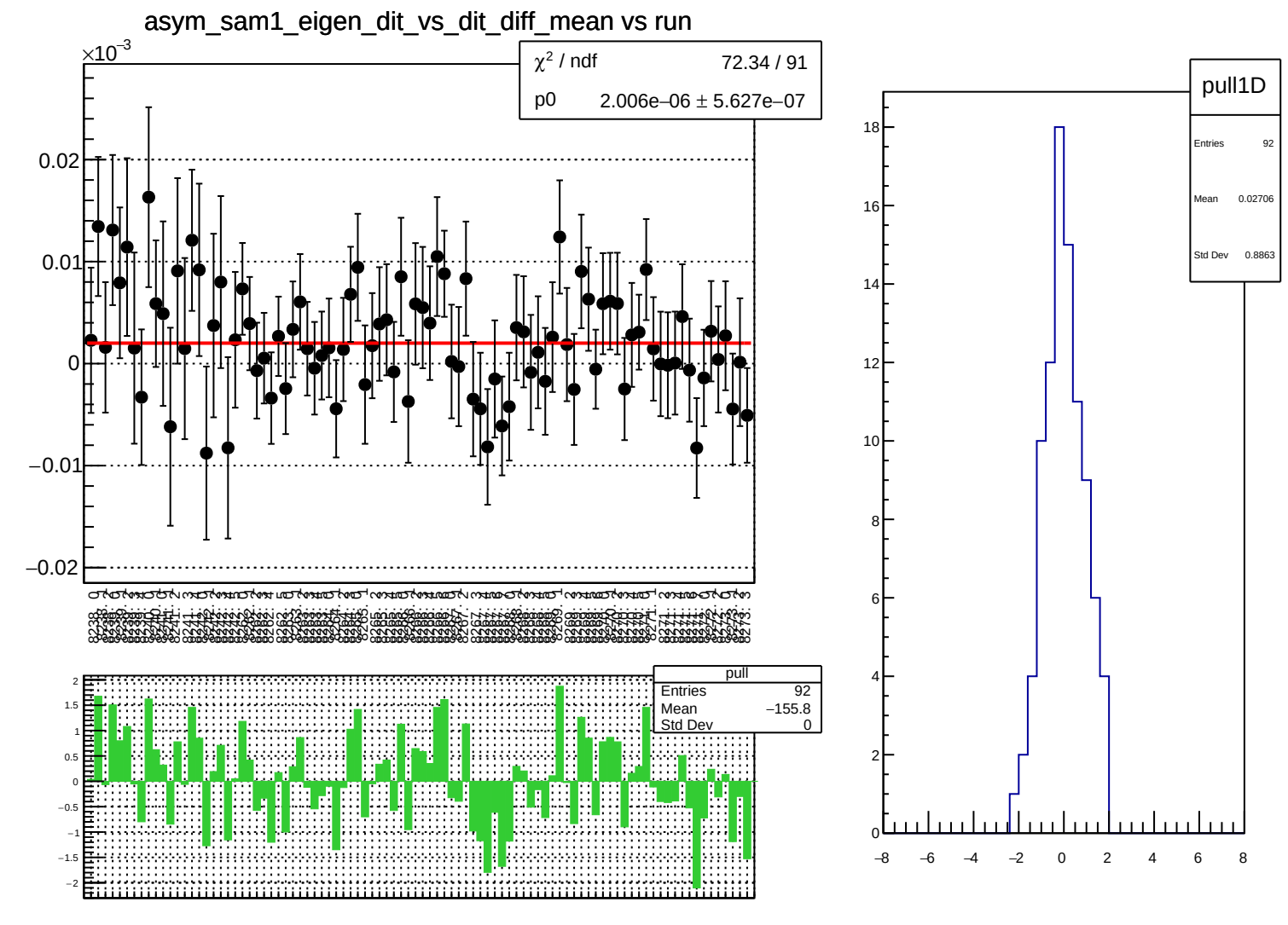

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 8.491e+05 / 91
p0 1.537e−11 ± 1.59e−14
0.05
0.04
0.03
0.02
0.01
0

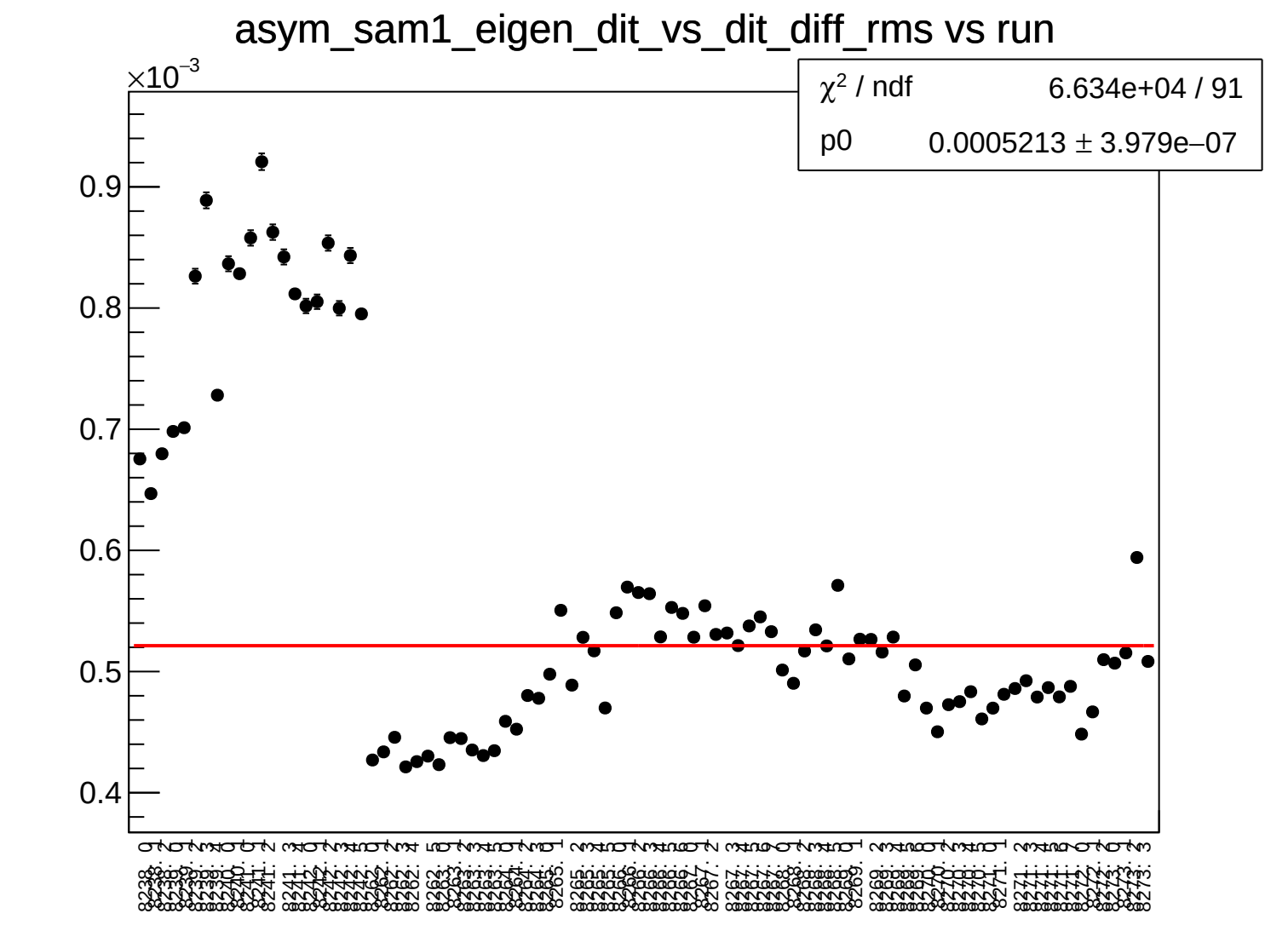

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 86.98 / 91
p0 −0.0233 ± 0.01745
pull
Entries 92
Mean −169.5
Std Dev 0
pull1D
Entries 92
Mean 0.01697
Std Dev 0.9722

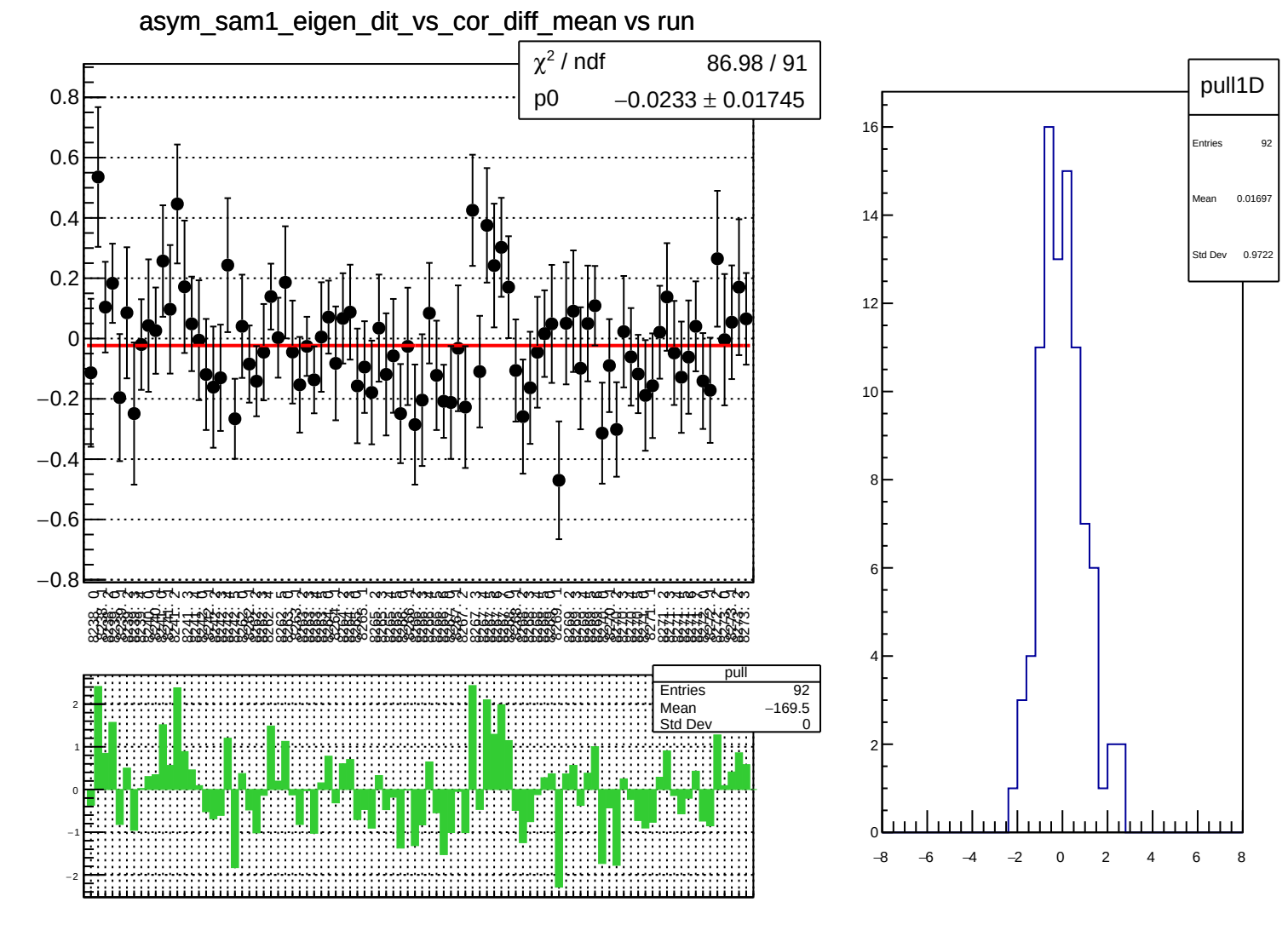

asym_sam1_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.703e+04 / 91
p0 16.21 ± 0.01234
24
22
20
18
16
14
12
10
8

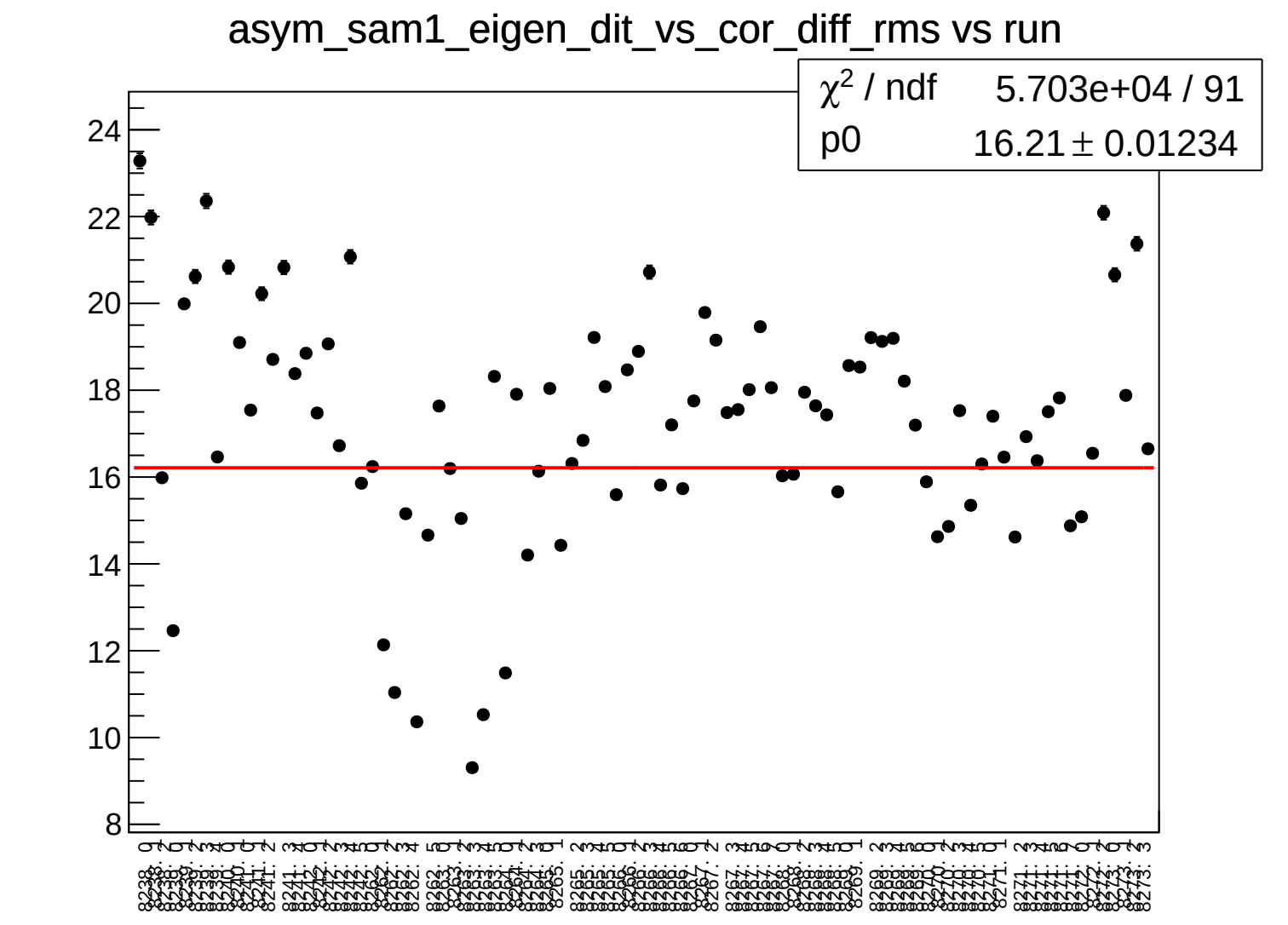

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.98 / 91
p0 −0.0233 ± 0.01745
pull
Entries 92
Mean −169.5
Std Dev 0
pull1D
Entries 92
Mean 0.01697
Std Dev 0.9722

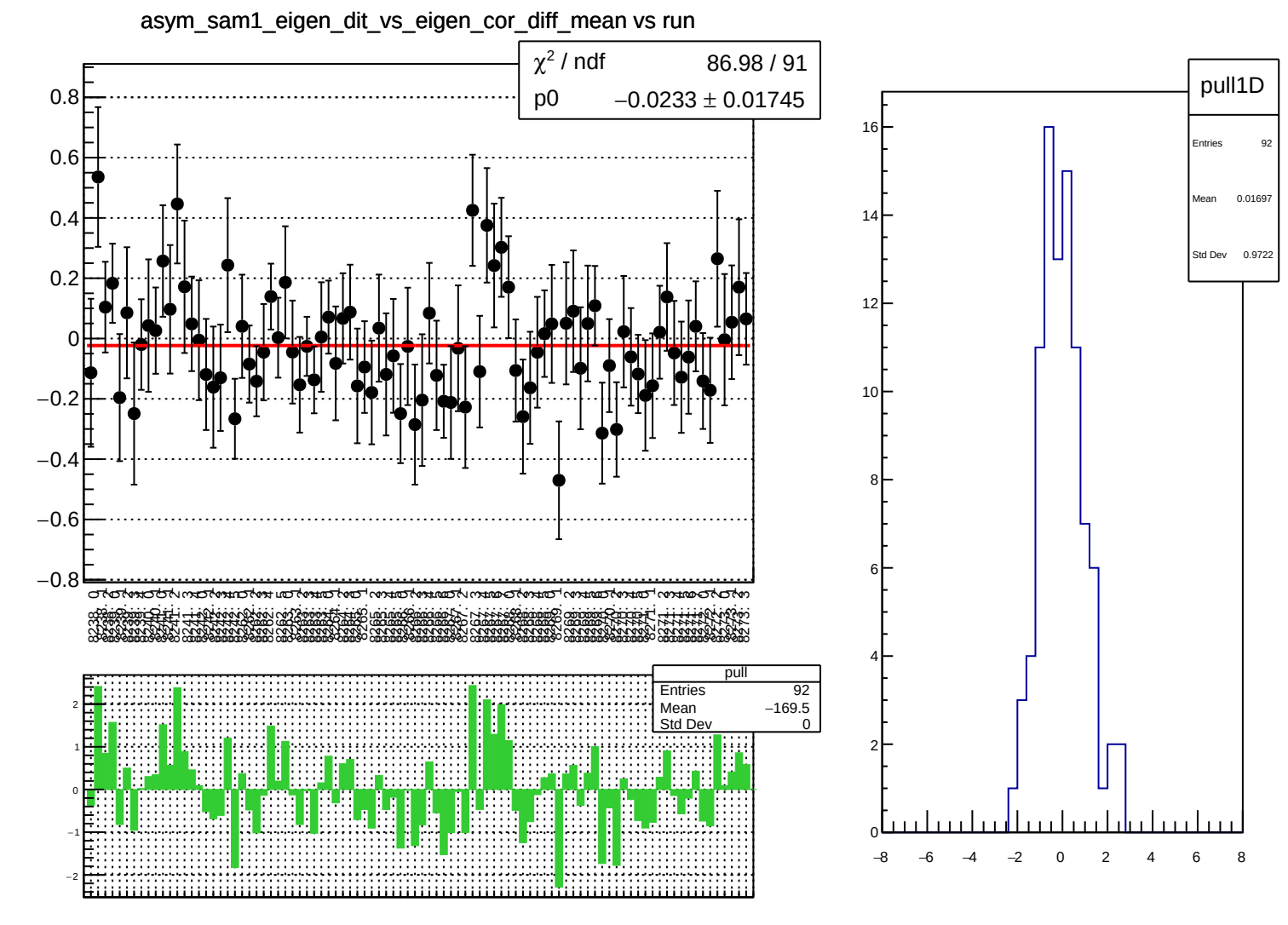

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.703e+04 / 91
p0 16.21 ± 0.01234
24
22
20
18
16
14
12
10
8

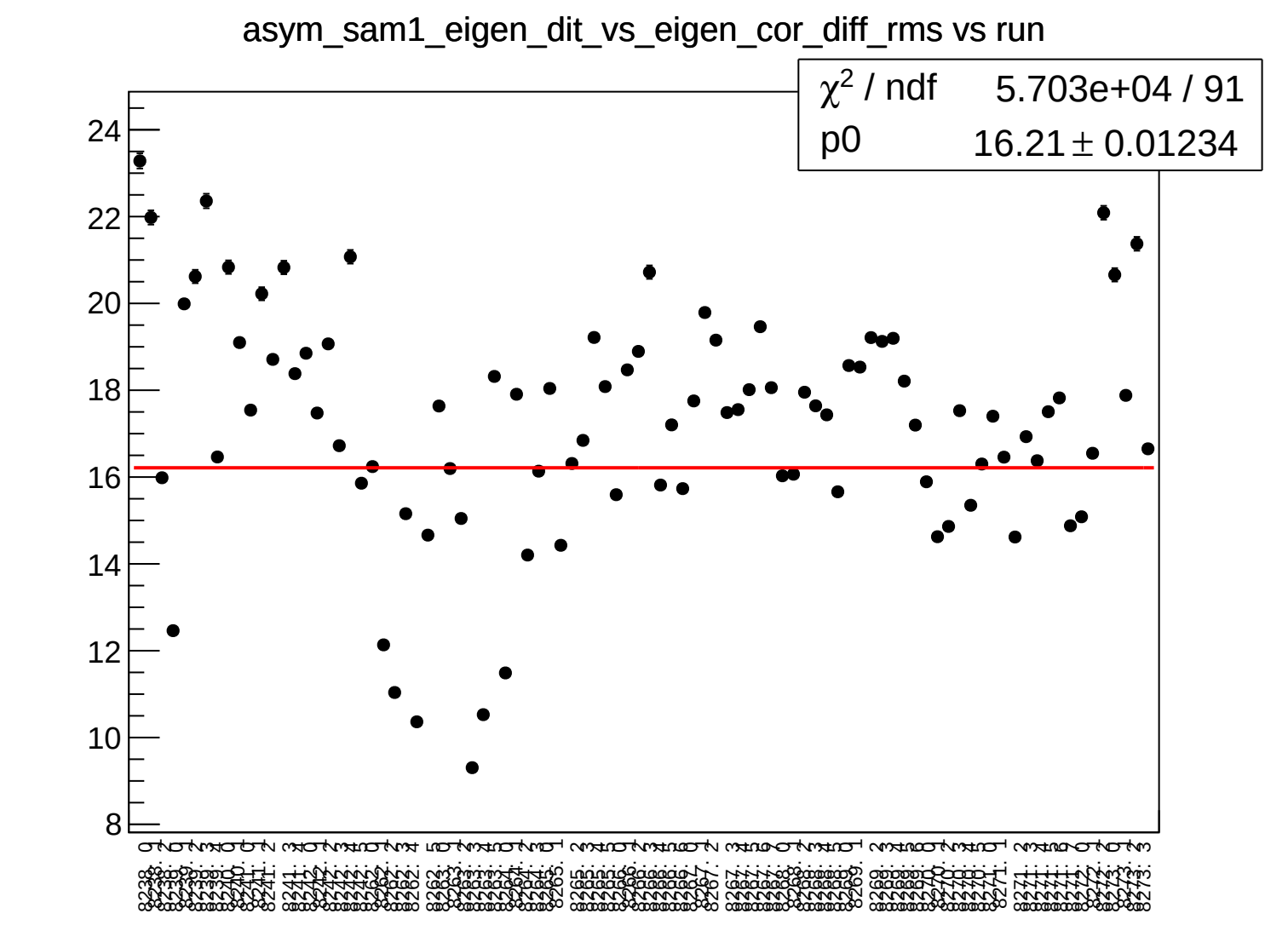

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.34 / 91
p0 2.006e−06 ± 5.627e−07
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean −155.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.02706
Std Dev 0.8863
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

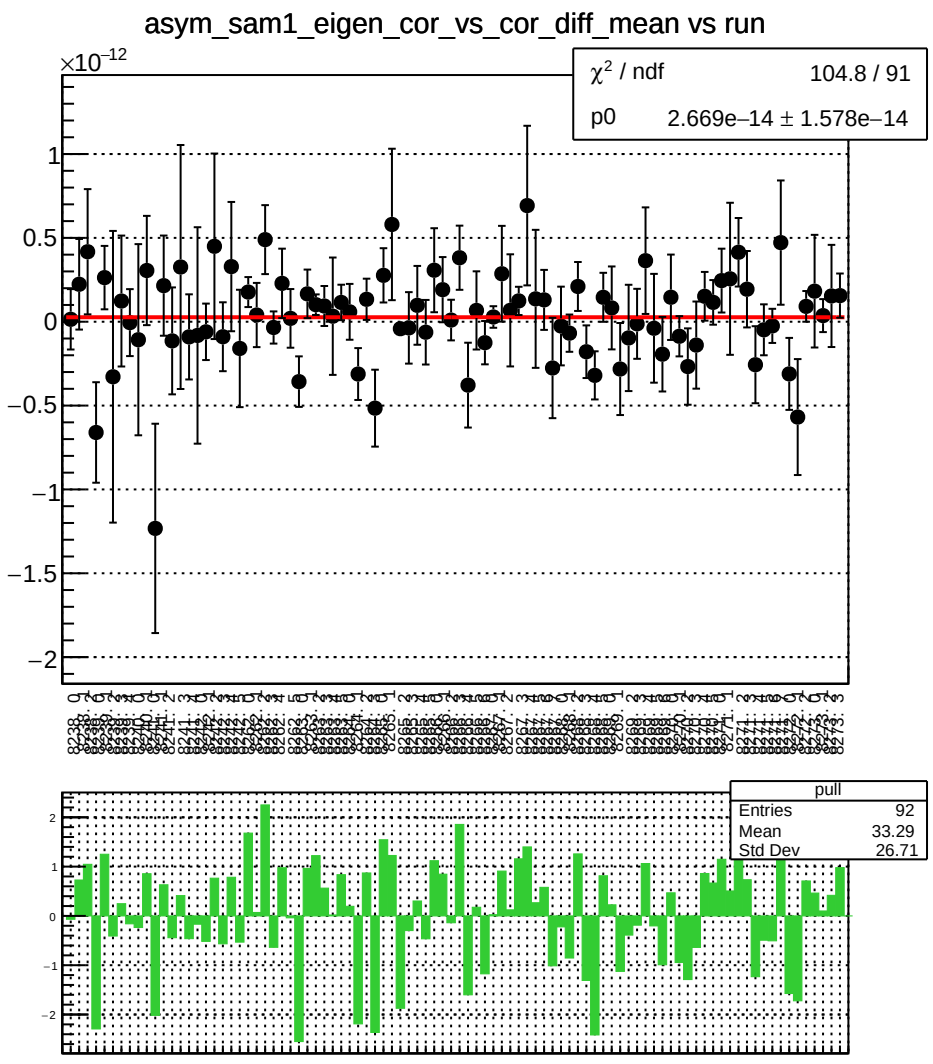

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 6.634e+04 / 91
p0 0.0005213 ± 3.979e−07
0.9
0.8
0.7
0.6
0.5
0.4

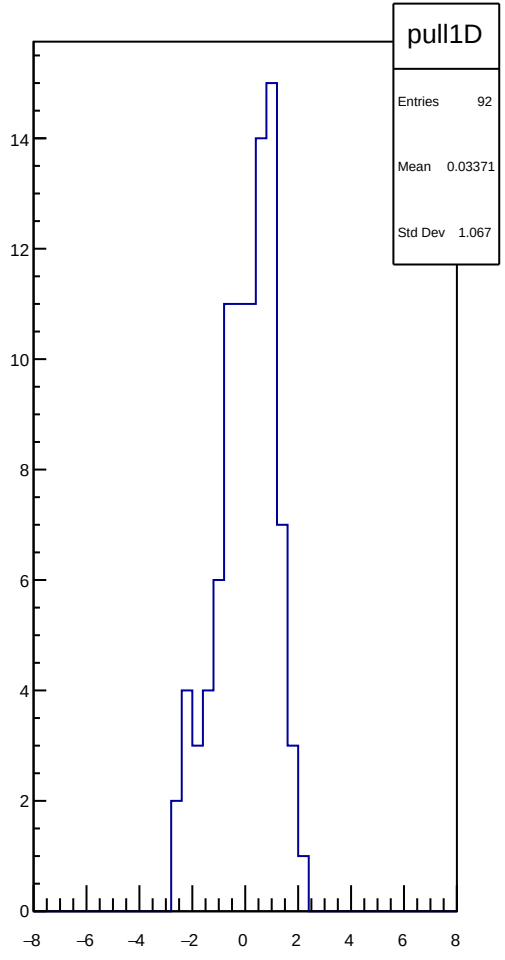

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.98 / 91
p0 −0.0233 ± 0.01745
pull
Entries 92
Mean −169.5
Std Dev 0
pull1D
Entries 92
Mean 0.01697
Std Dev 0.9722

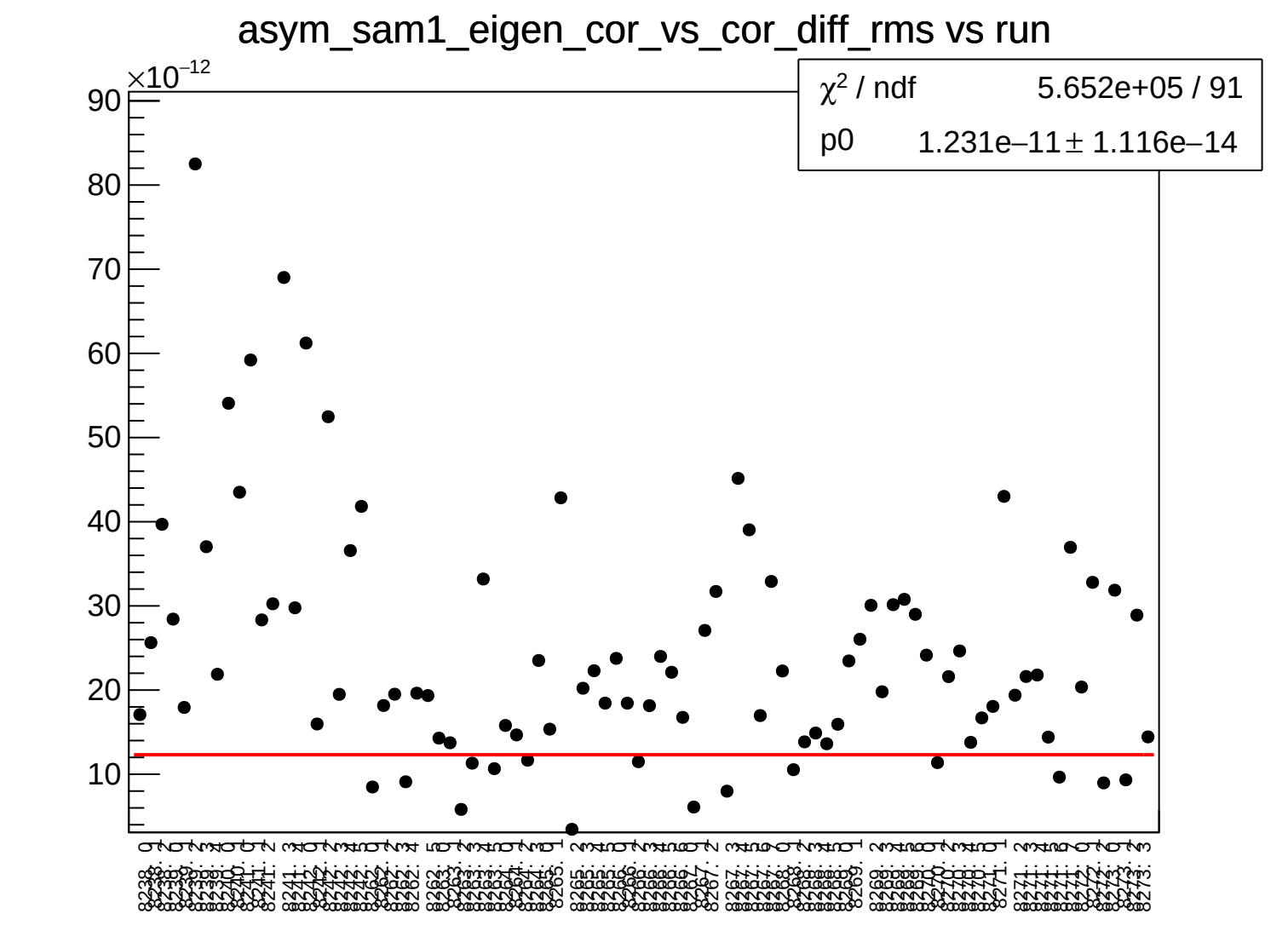

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.703e+04 / 91
p0 16.21 ± 0.01234
24
22
20
18
16
14
12
10
8

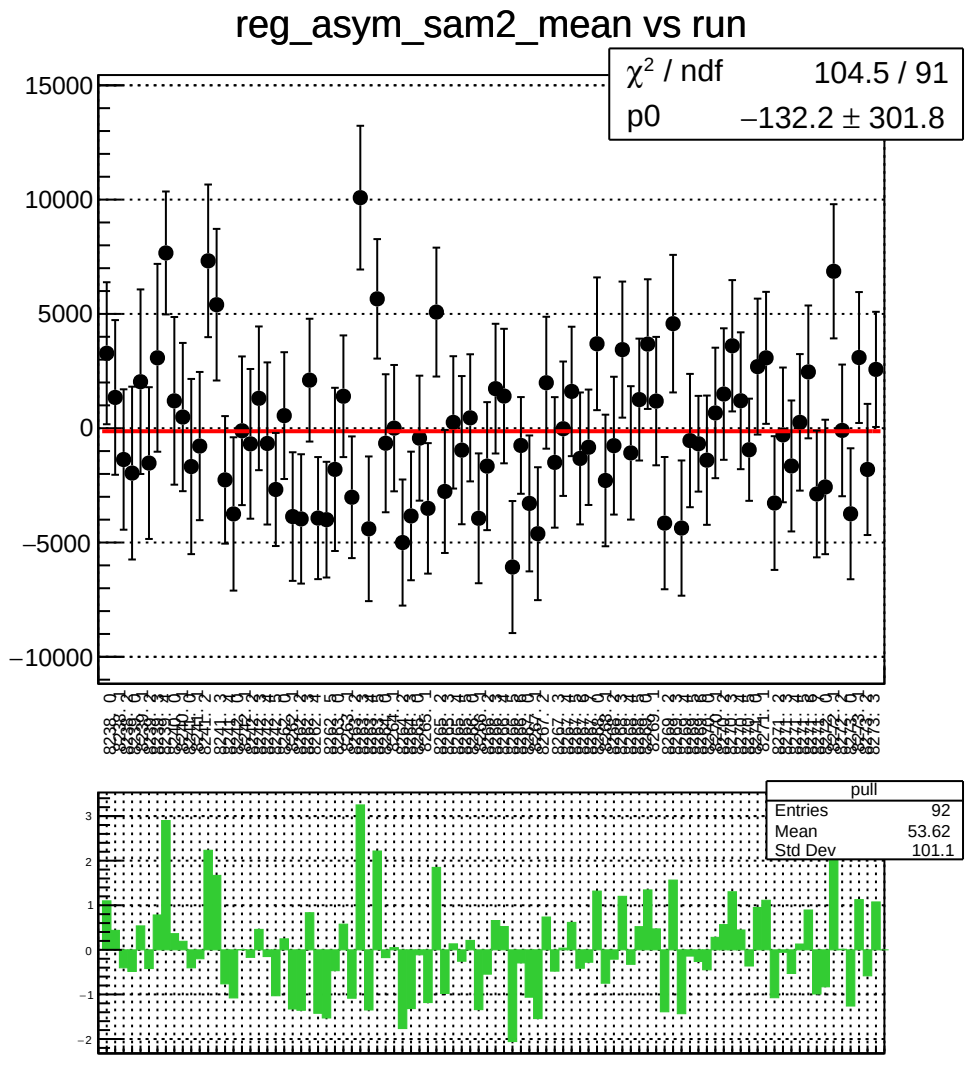

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.98 / 91
p0 −0.0233 ± 0.01745
pull
Entries 92
Mean −169.5
Std Dev 0
pull1D
Entries 92
Mean 0.01697
Std Dev 0.9722

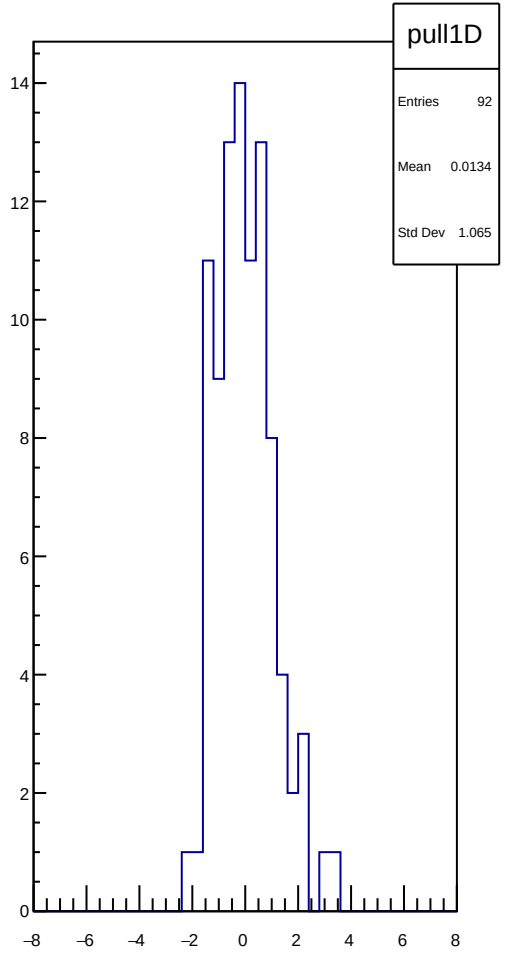

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.703e+04 / 91
p0 16.21 ± 0.01234
24
22
20
18
16
14
12
10
8

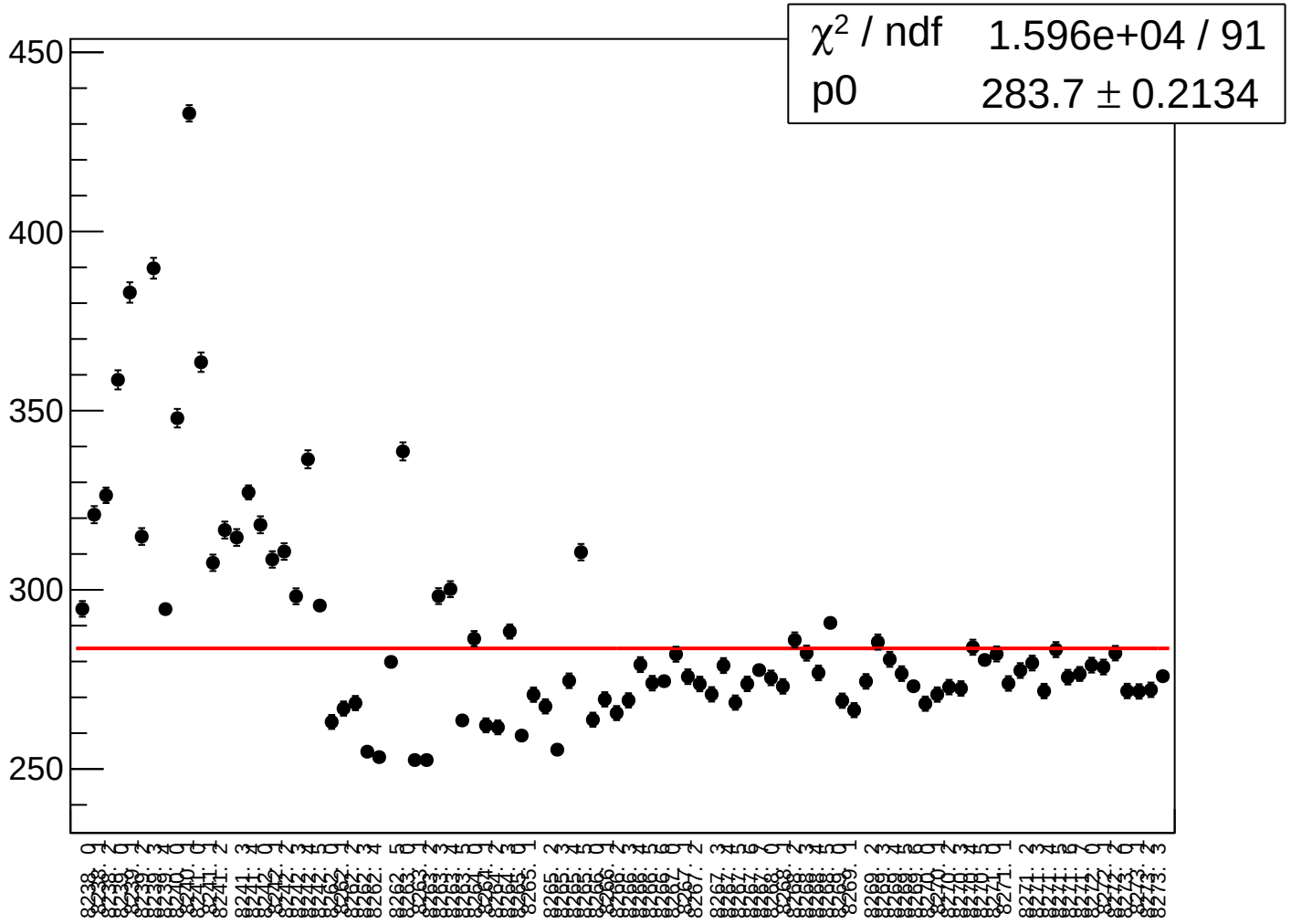

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.8 / 91
p0 2.669e−14 ± 1.578e−14
pull
Entries 92
Mean 33.29
Std Dev 26.71

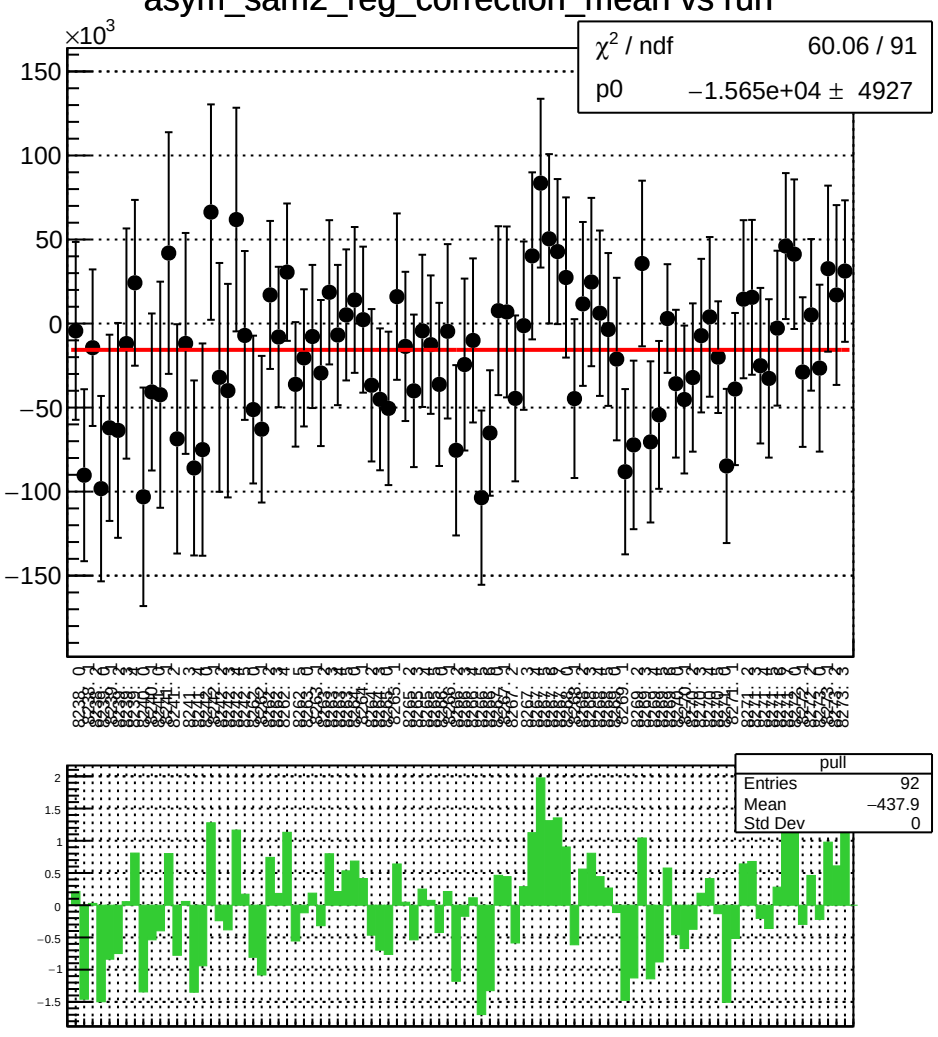

pull1D
Entries 92
Mean 0.03371
Std Dev 1.067

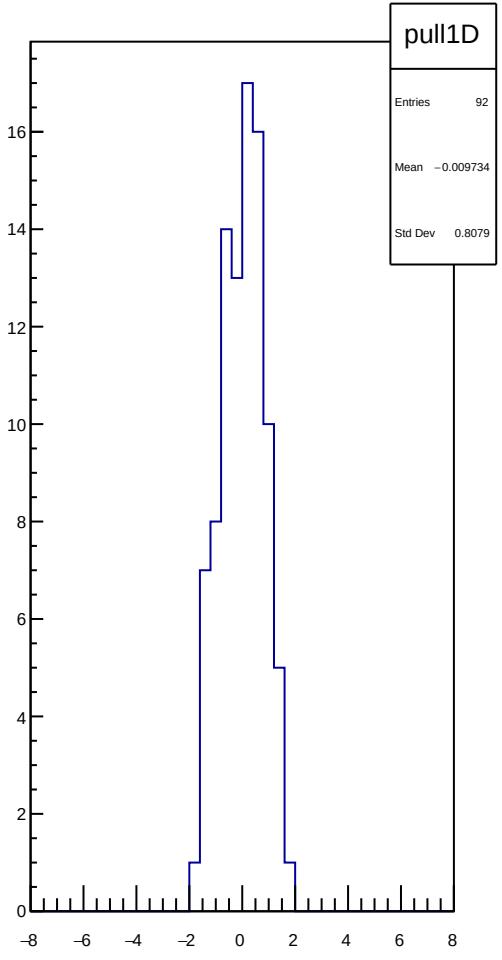

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.652e+05 / 91
p0 1.231e−11 ± 1.116e−14
90
80
70
60
50
40
30
20
10

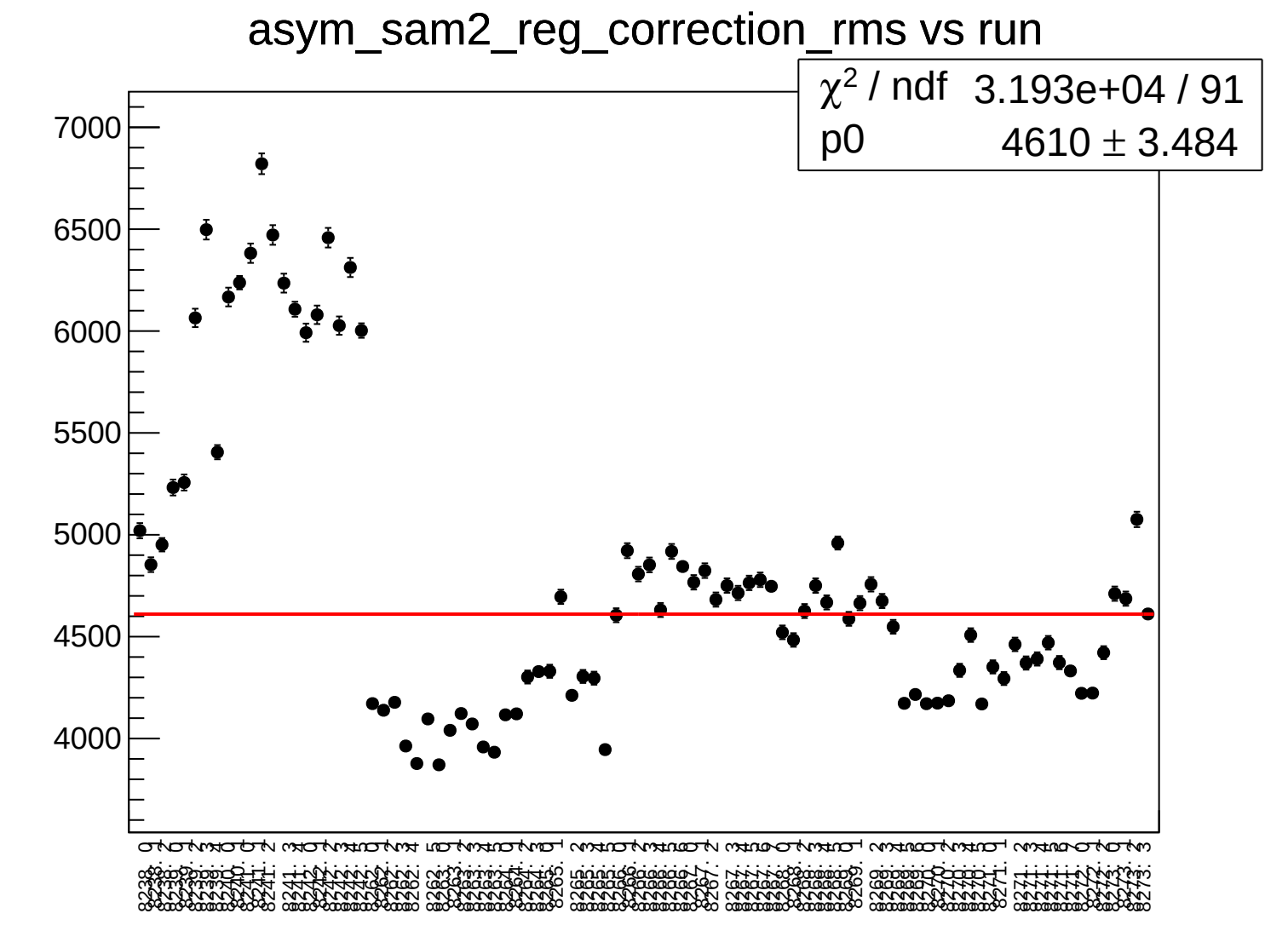

reg_asym_sam2_mean vs run
χ² / ndf 104.5 / 91
p0 −132.2 ± 301.8
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 53.62
Std Dev 101.1
3
2
1
0
−1
−2

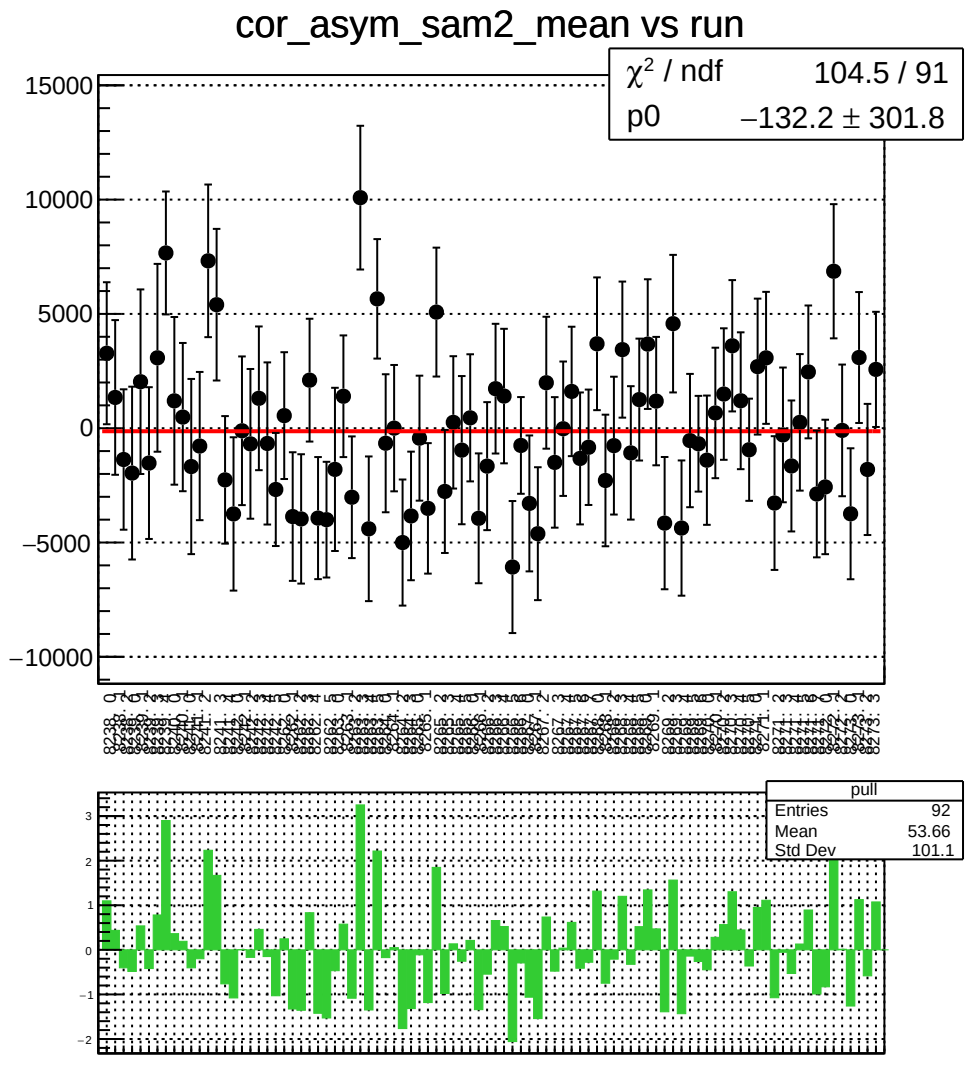

pull1D
Entries 92
Mean 0.0134
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

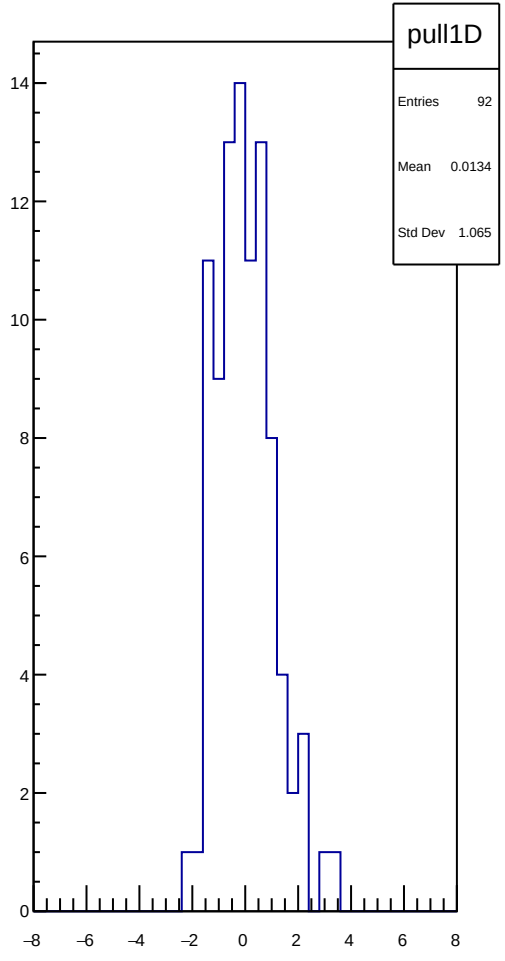

reg_asym_sam2_rms vs run
χ² / ndf 1.596e+04 / 91
p0 283.7 ± 0.2134
450
400
350
300
250

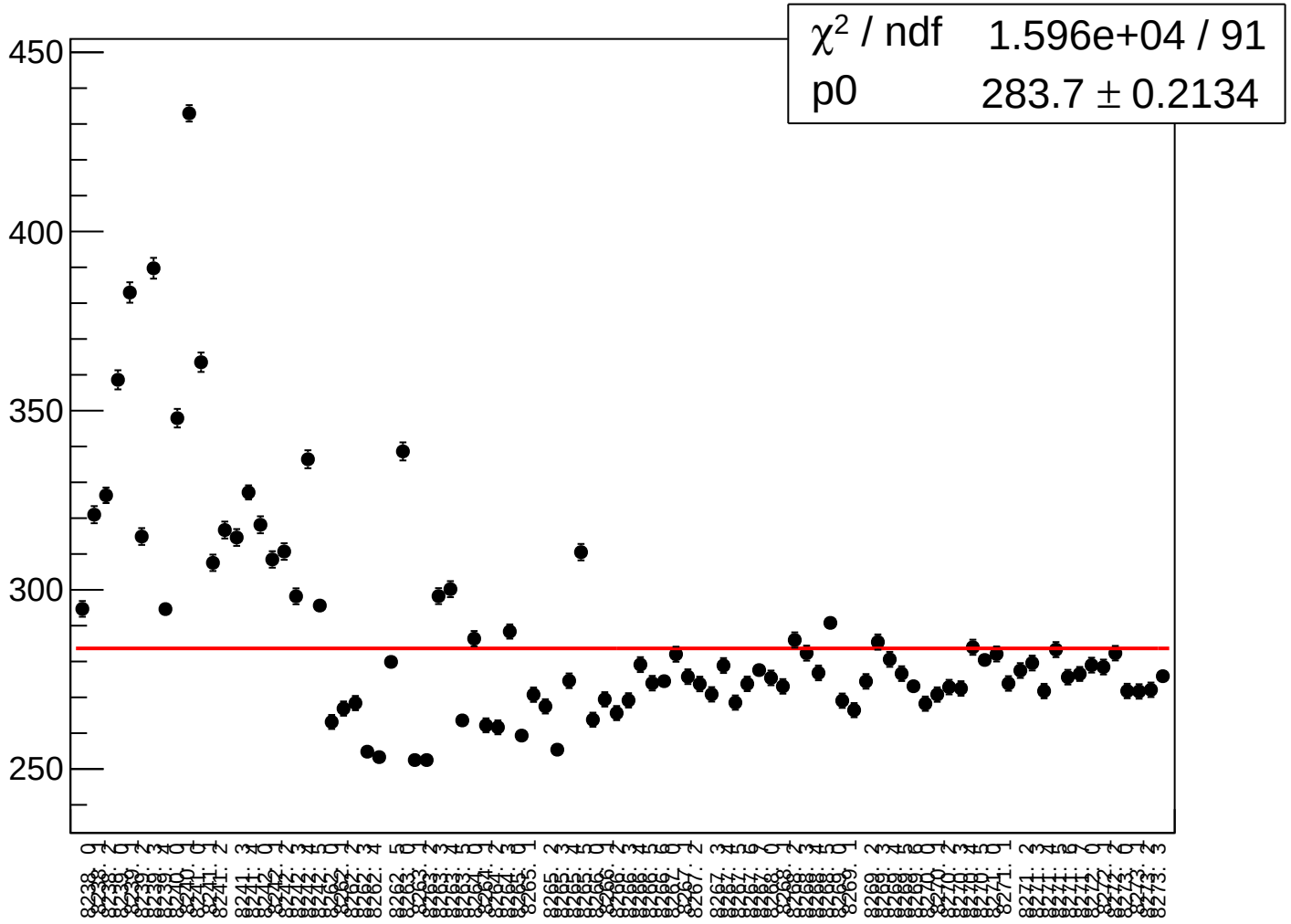

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 60.06 / 91
p0 −1.565e+04 ± 4927
pull
Entries 92
Mean −437.9
Std Dev 0

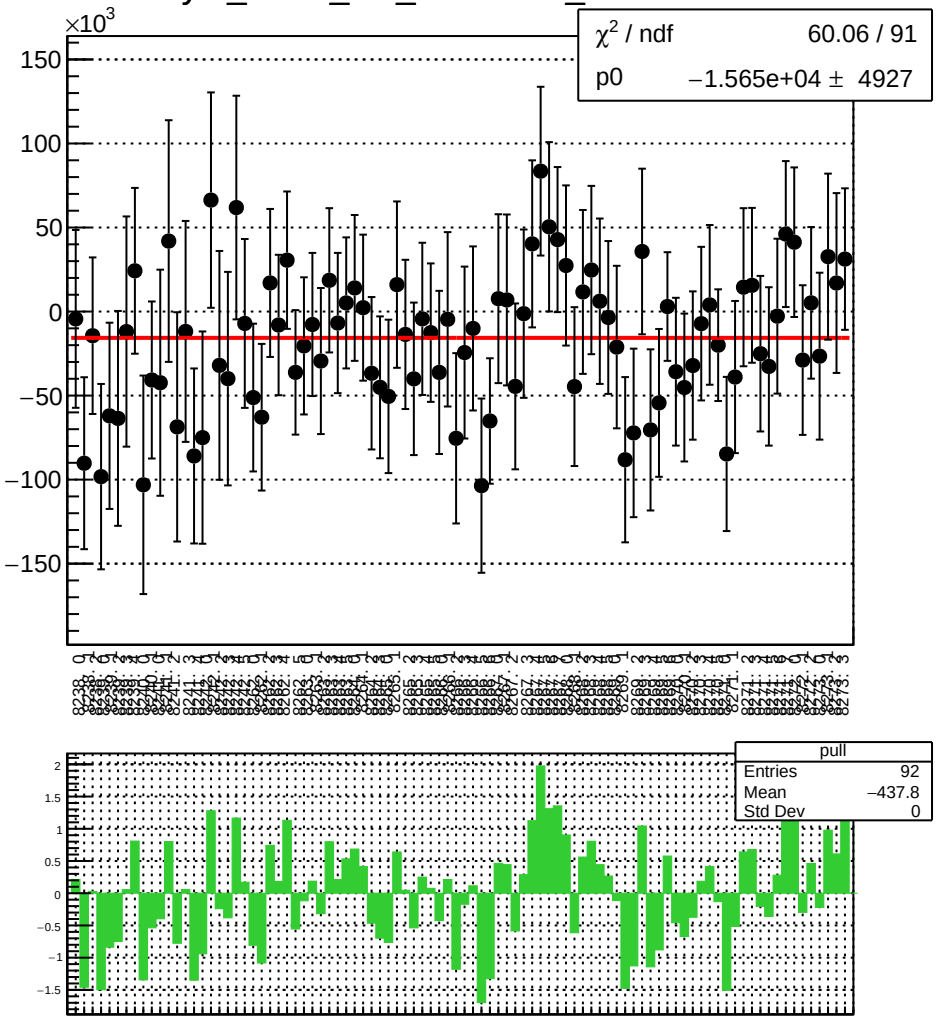

pull1D
Entries 92
Mean −0.009734
Std Dev 0.8079

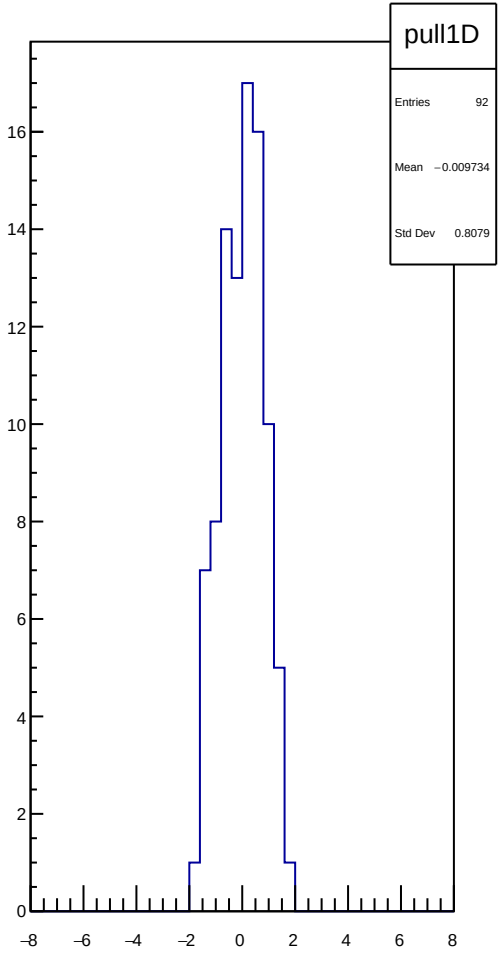

asym_sam2_reg_correction_rms vs run
χ² / ndf 3.193e+04 / 91
p0 4610 ± 3.484
7000
6500
6000
5500
5000
4500
4000

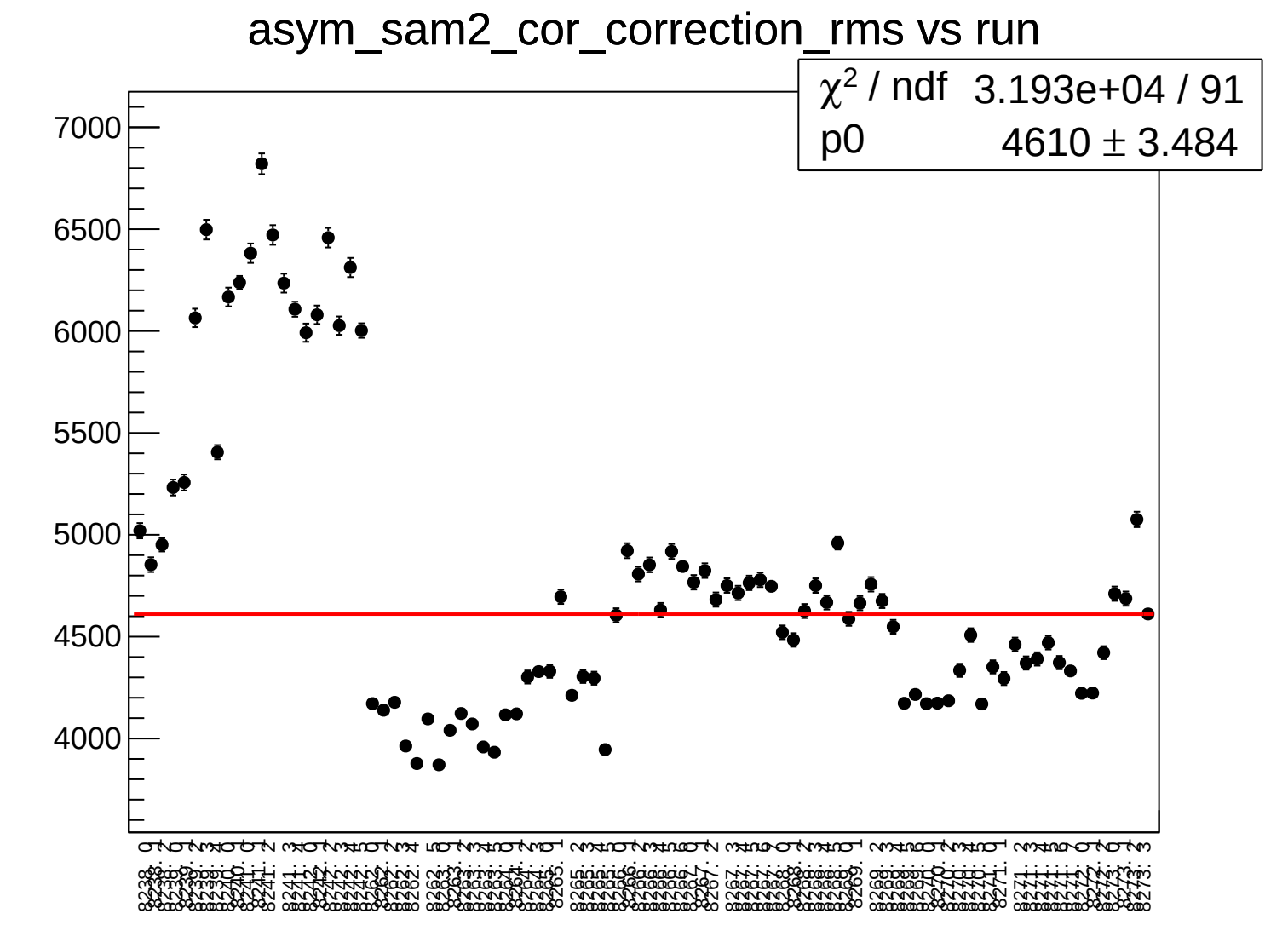

cor_asym_sam2_mean vs run
χ² / ndf 104.5 / 91
p0 −132.2 ± 301.8
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 53.66
Std Dev 101.1
3
2
1
0
−1
−2

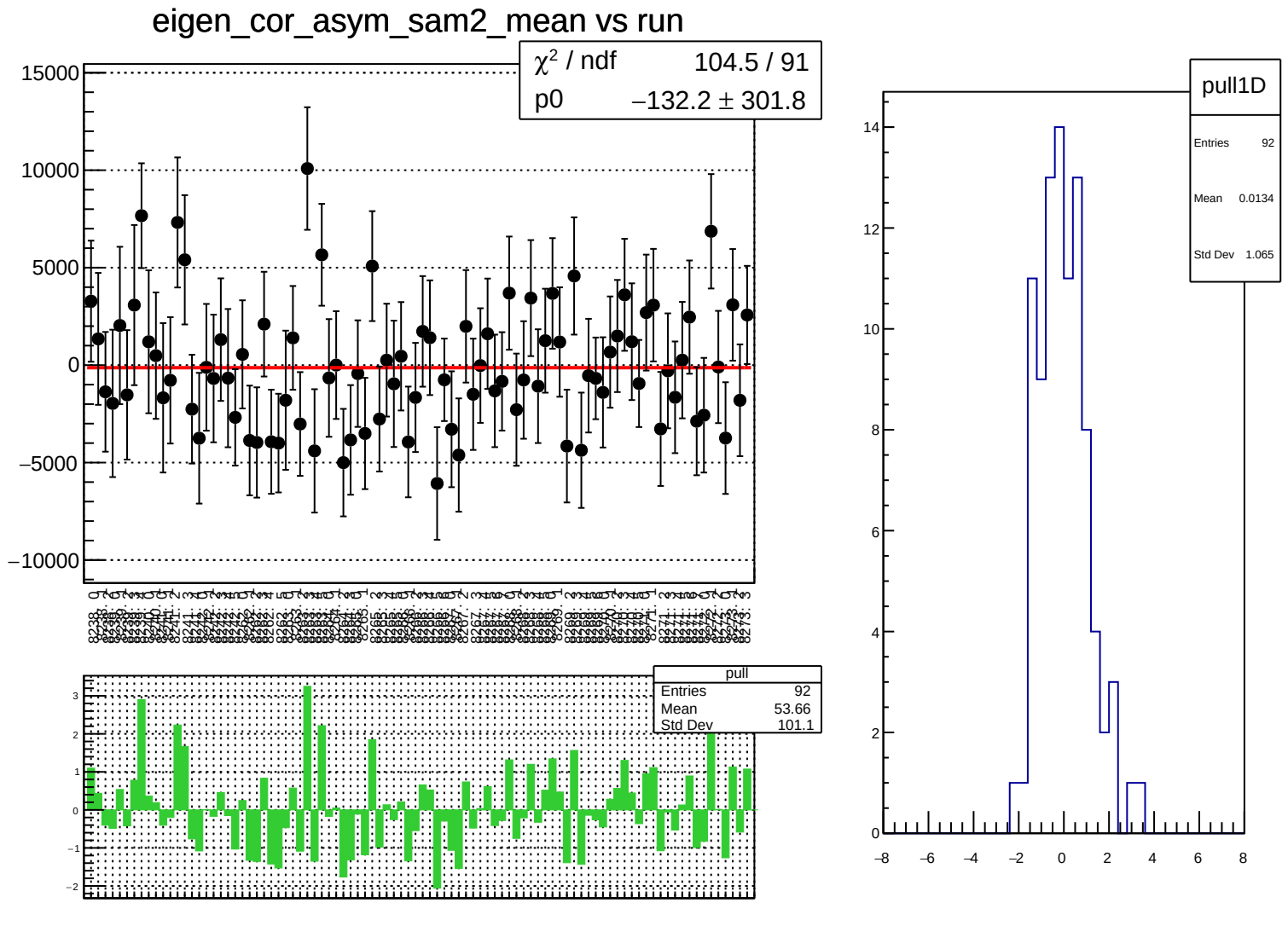

pull1D
Entries 92
Mean 0.0134
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

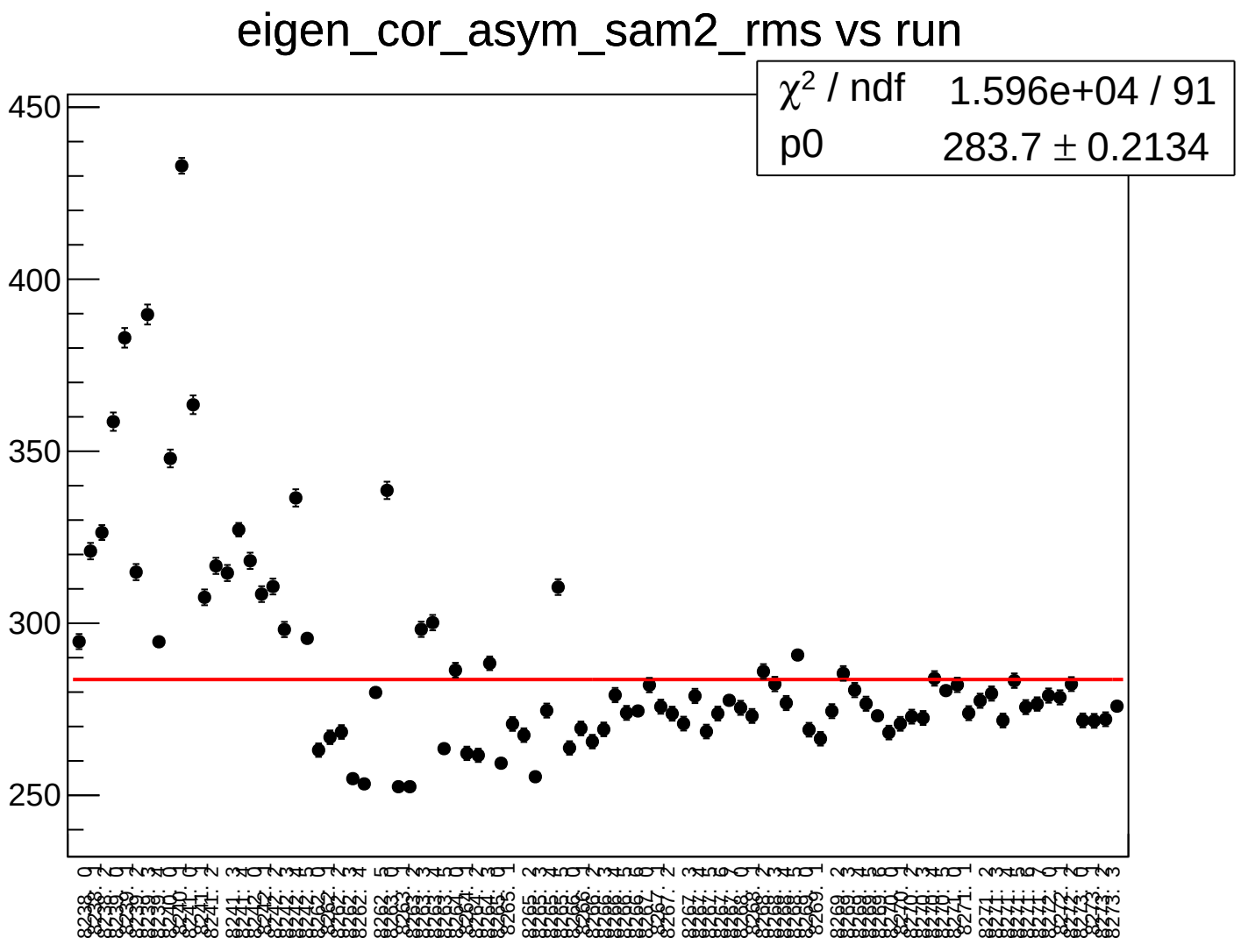

cor_asym_sam2_rms vs run
χ² / ndf 1.596e+04 / 91
p0 283.7 ± 0.2134
450
400
350
300
250

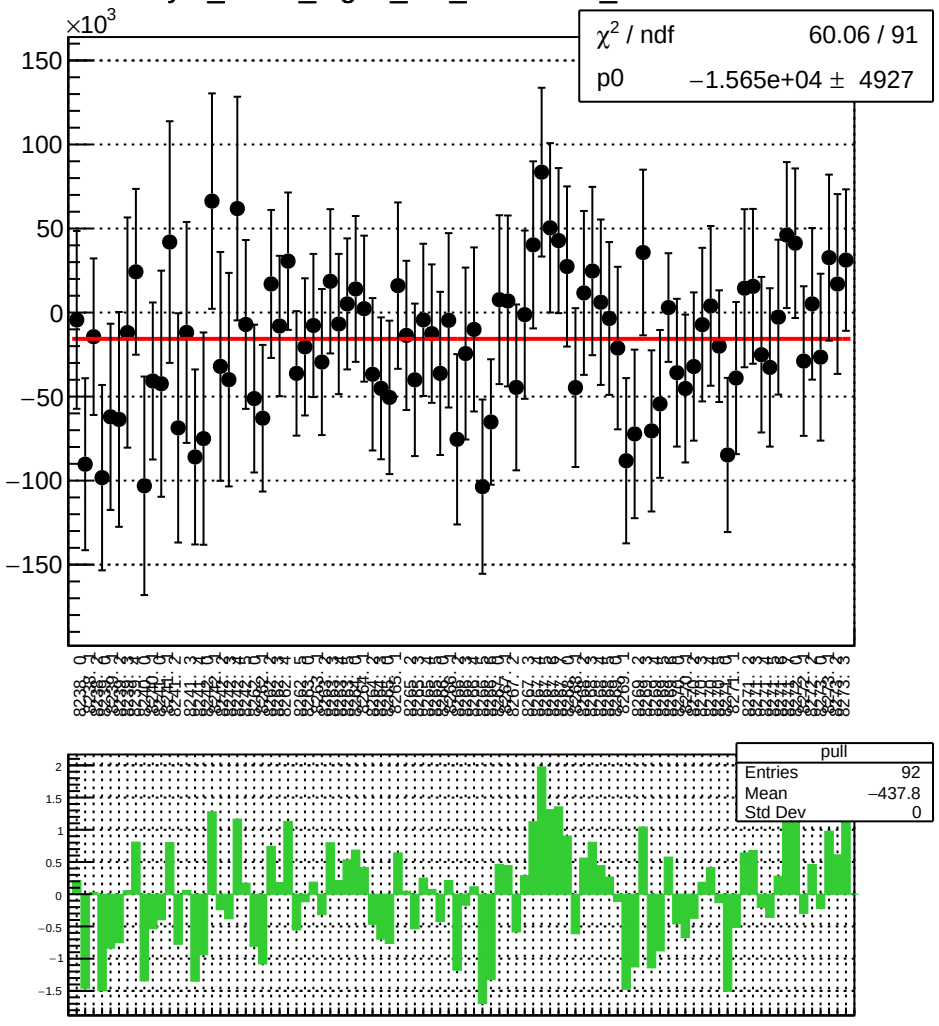

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 60.06 / 91
p0 −1.565e+04 ± 4927
pull
Entries 92
Mean −437.8
Std Dev 0

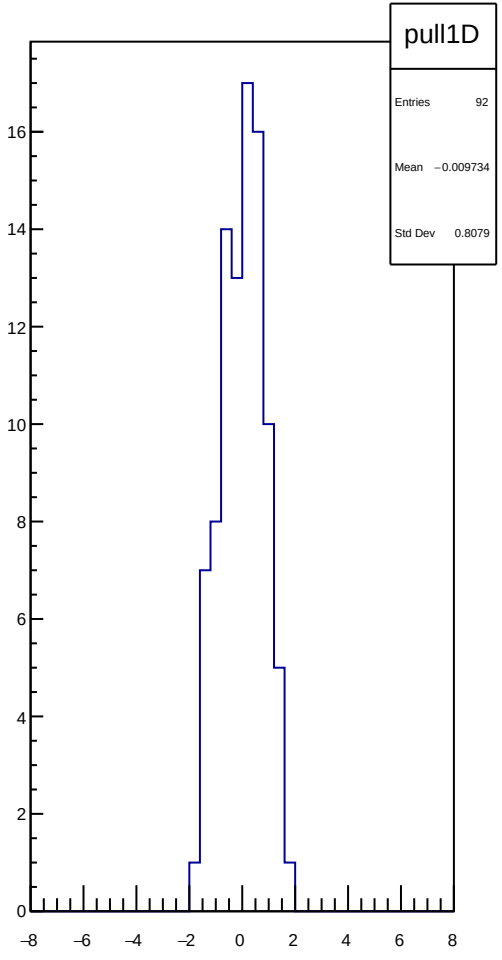

pull1D
Entries 92
Mean −0.009734
Std Dev 0.8079

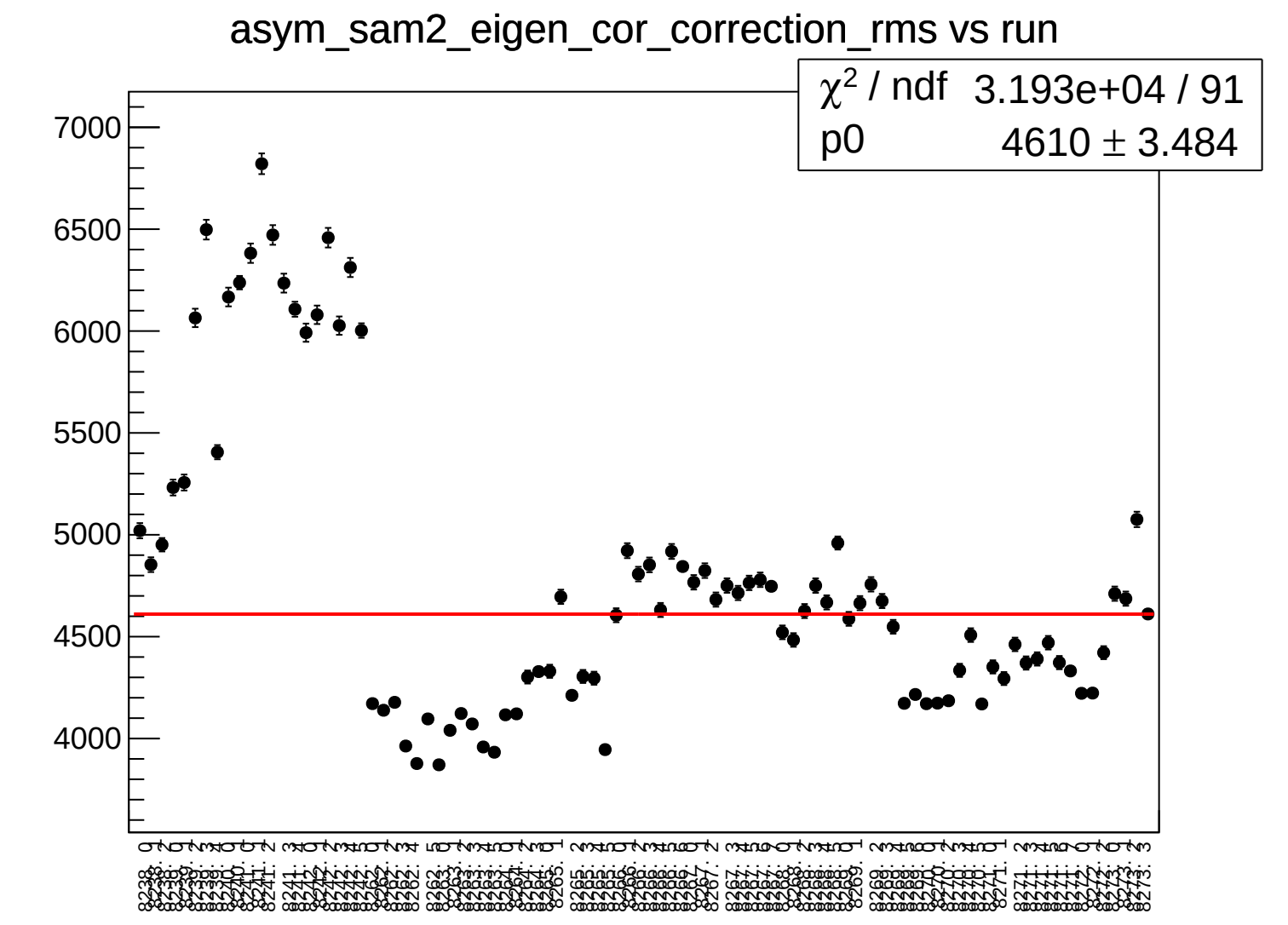

asym_sam2_cor_correction_rms vs run
χ² / ndf 3.193e+04 / 91
p0 4610 ± 3.484
7000
6500
6000
5500
5000
4500
4000

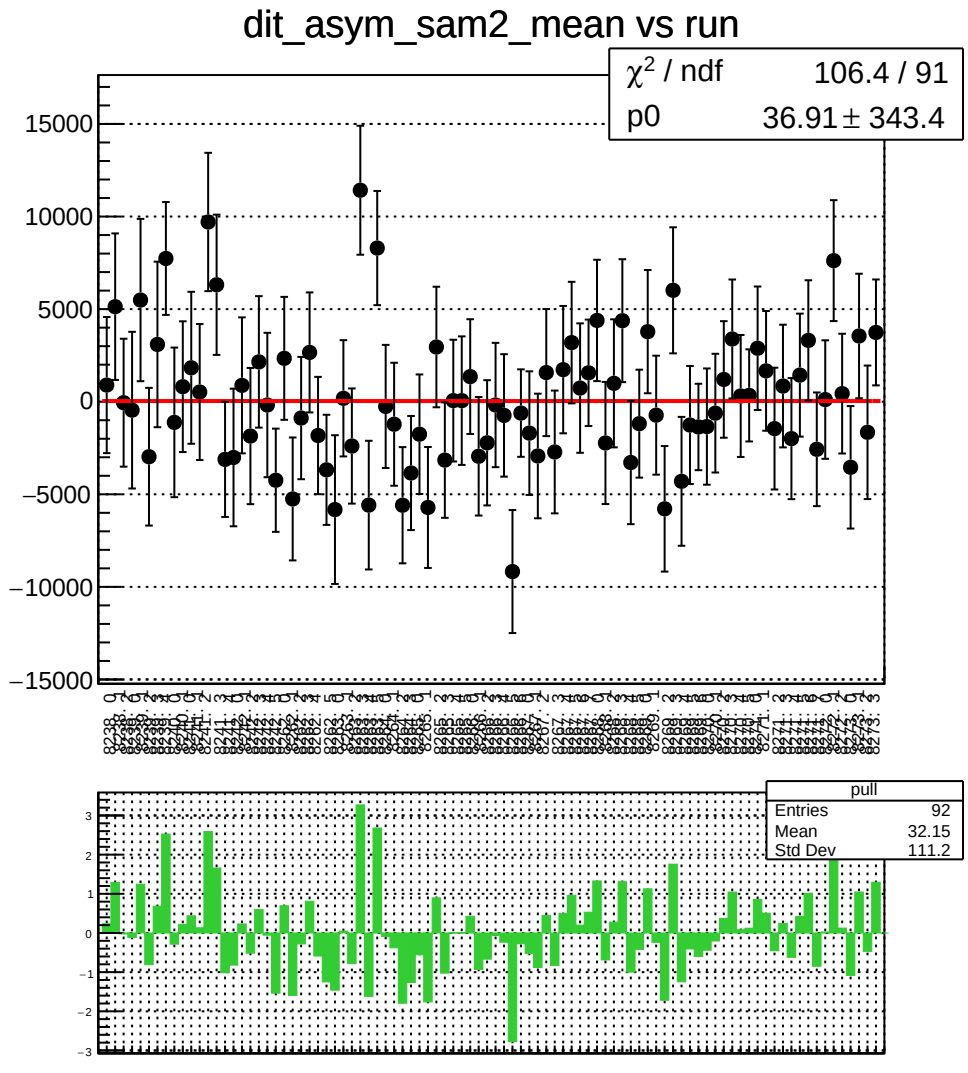

eigen_cor_asym_sam2_mean vs run
χ² / ndf 104.5 / 91
p0 −132.2 ± 301.8
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 53.66
Std Dev 101.1
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0134
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

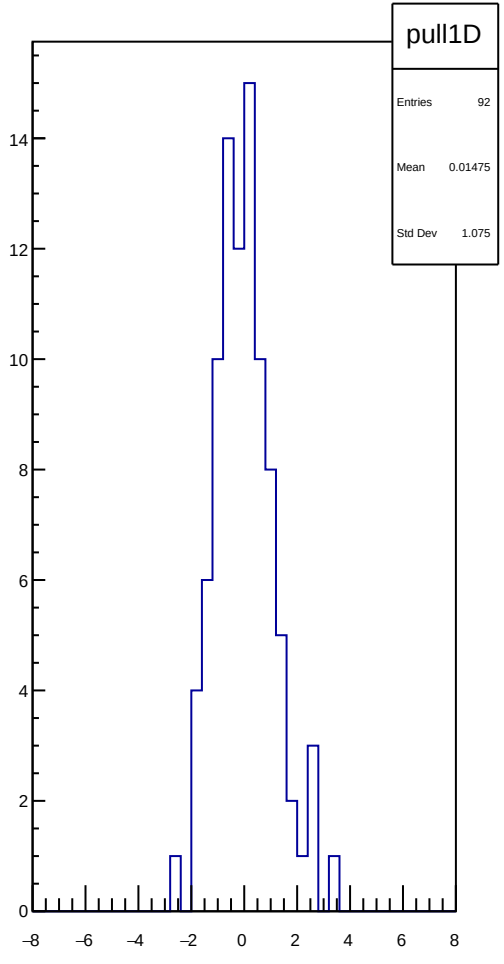

eigen_cor_asym_sam2_rms vs run
χ² / ndf 1.596e+04 / 91
p0 283.7 ± 0.2134
450
400
350
300
250

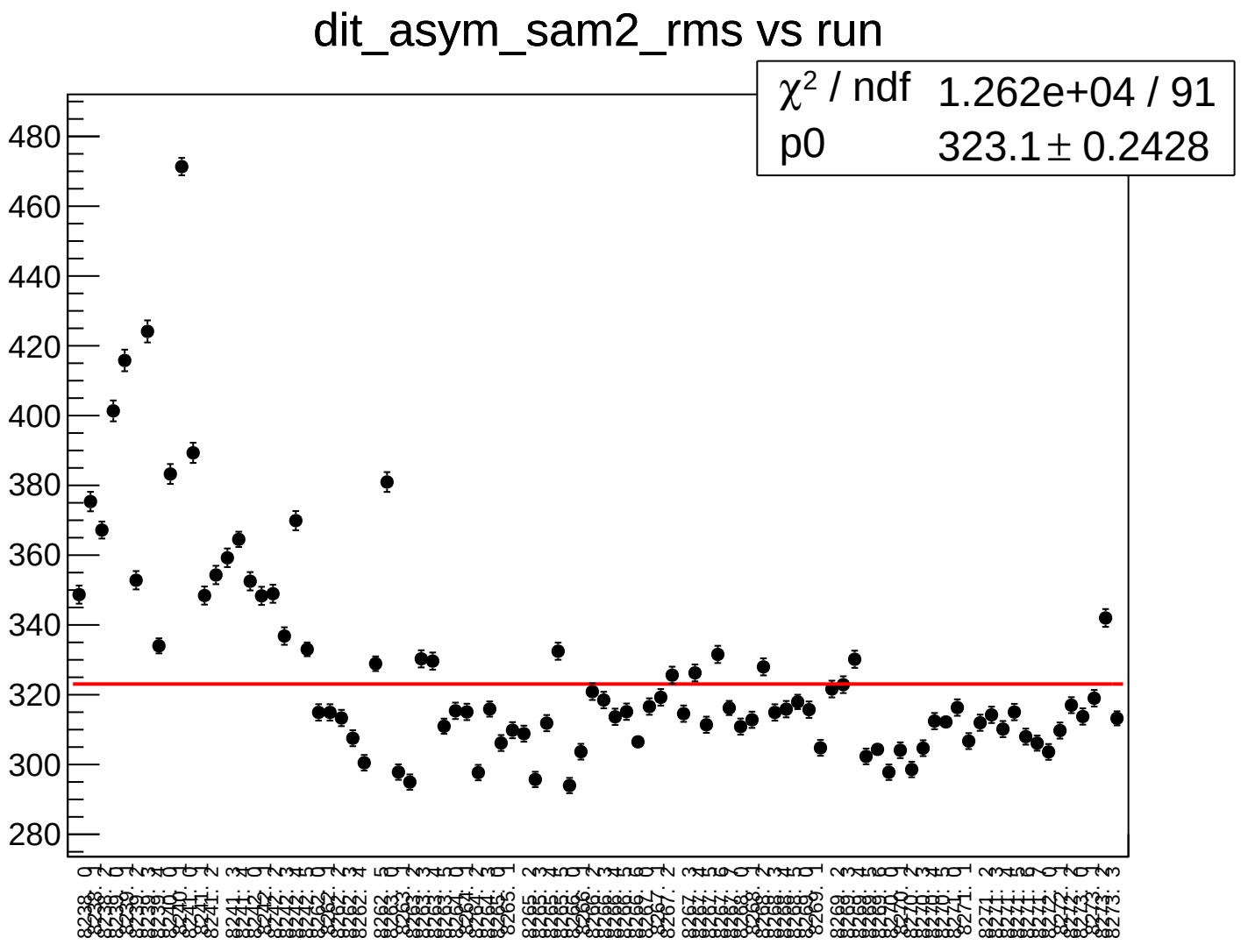

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 60.06 / 91
p0 −1.565e+04 ± 4927
pull
Entries 92
Mean −437.8
Std Dev 0

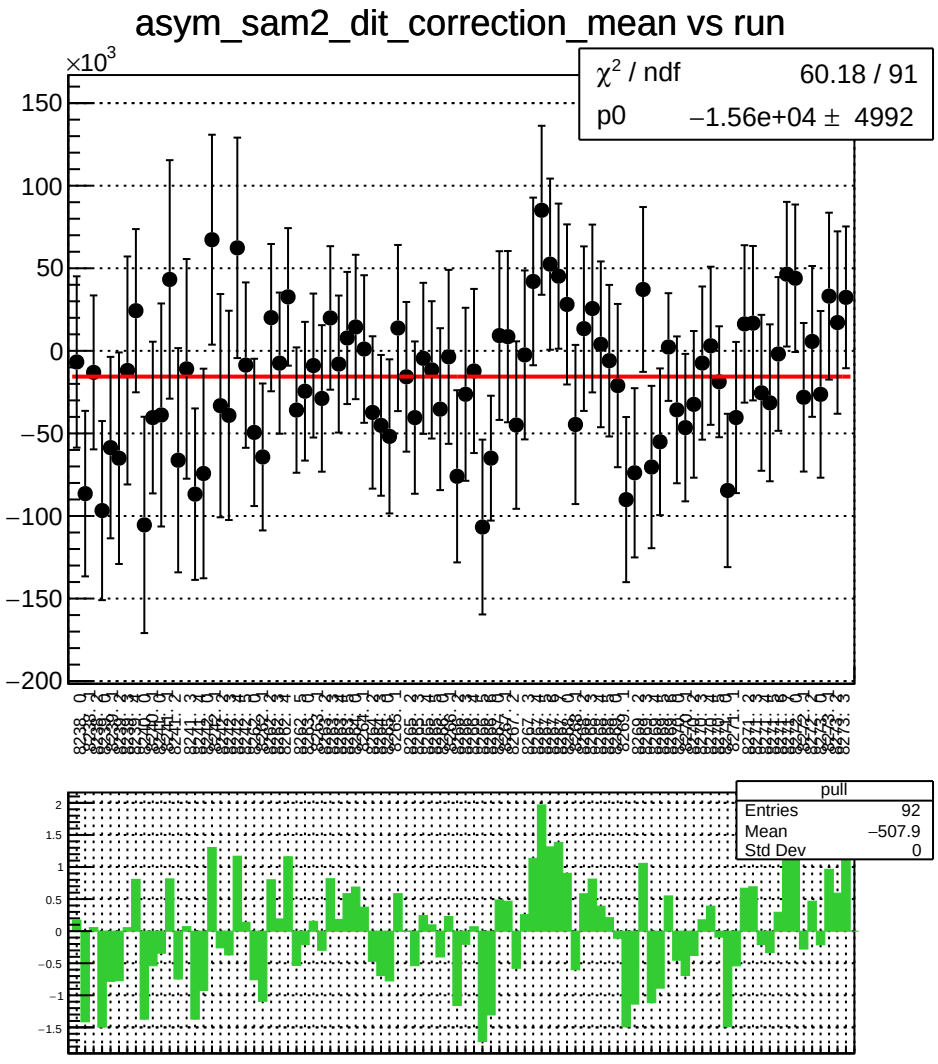

pull1D
Entries 92
Mean −0.009734
Std Dev 0.8079

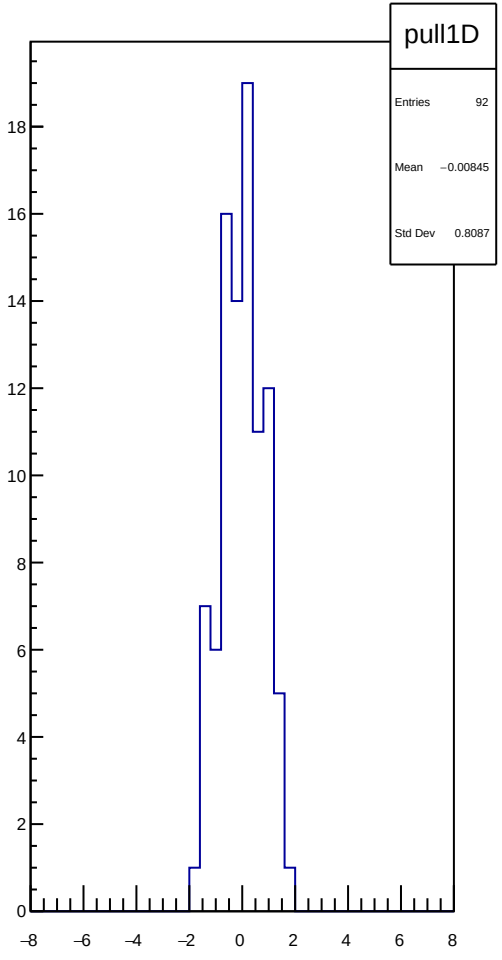

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 3.193e+04 / 91
p0 4610 ± 3.484
7000
6500
6000
5500
5000
4500
4000

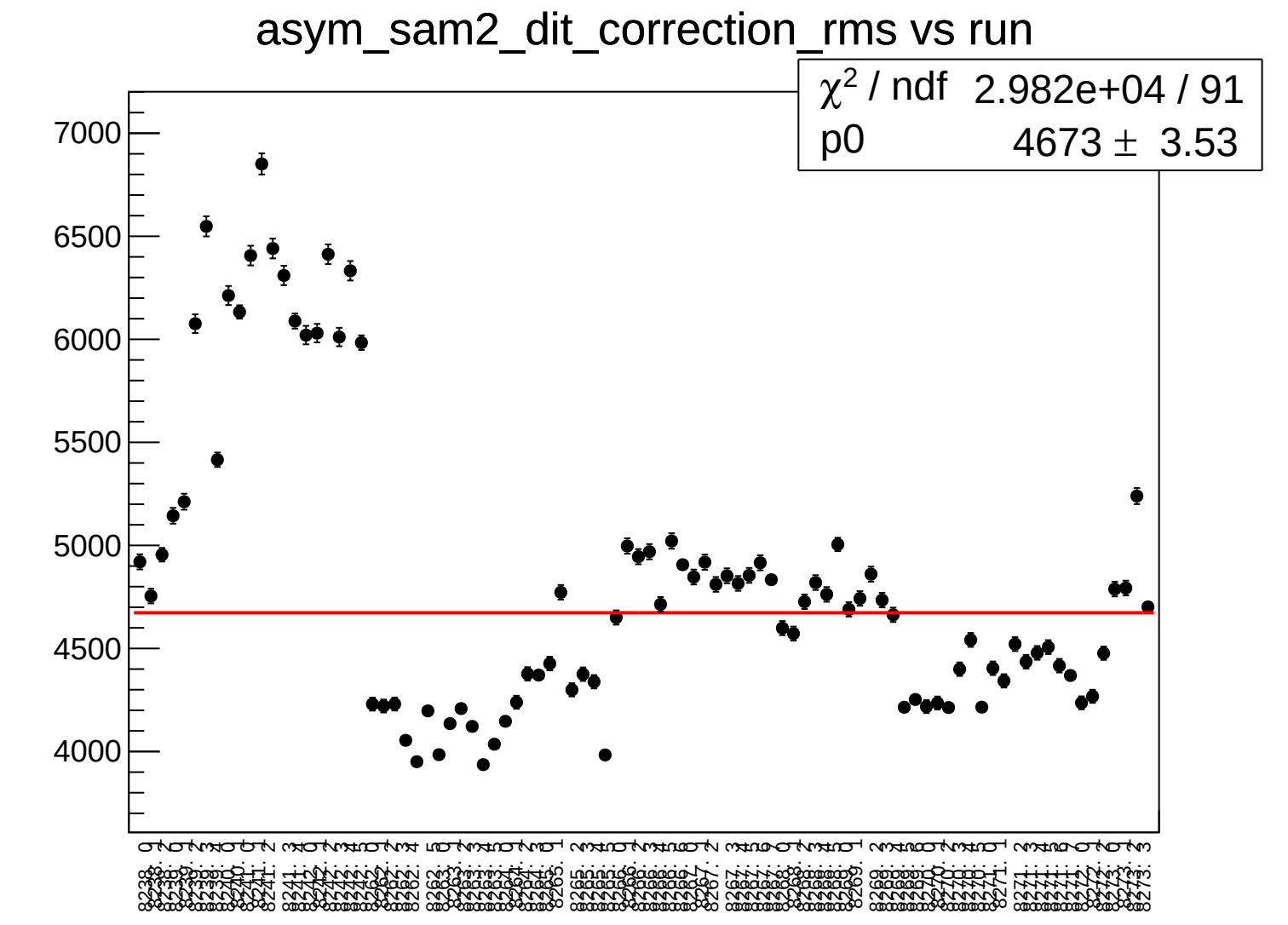

dit_asym_sam2_mean vs run
χ² / ndf 106.4 / 91
p0 36.91 ± 343.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 32.15
Std Dev 111.2
3
2
1
0
−1
−2
−3

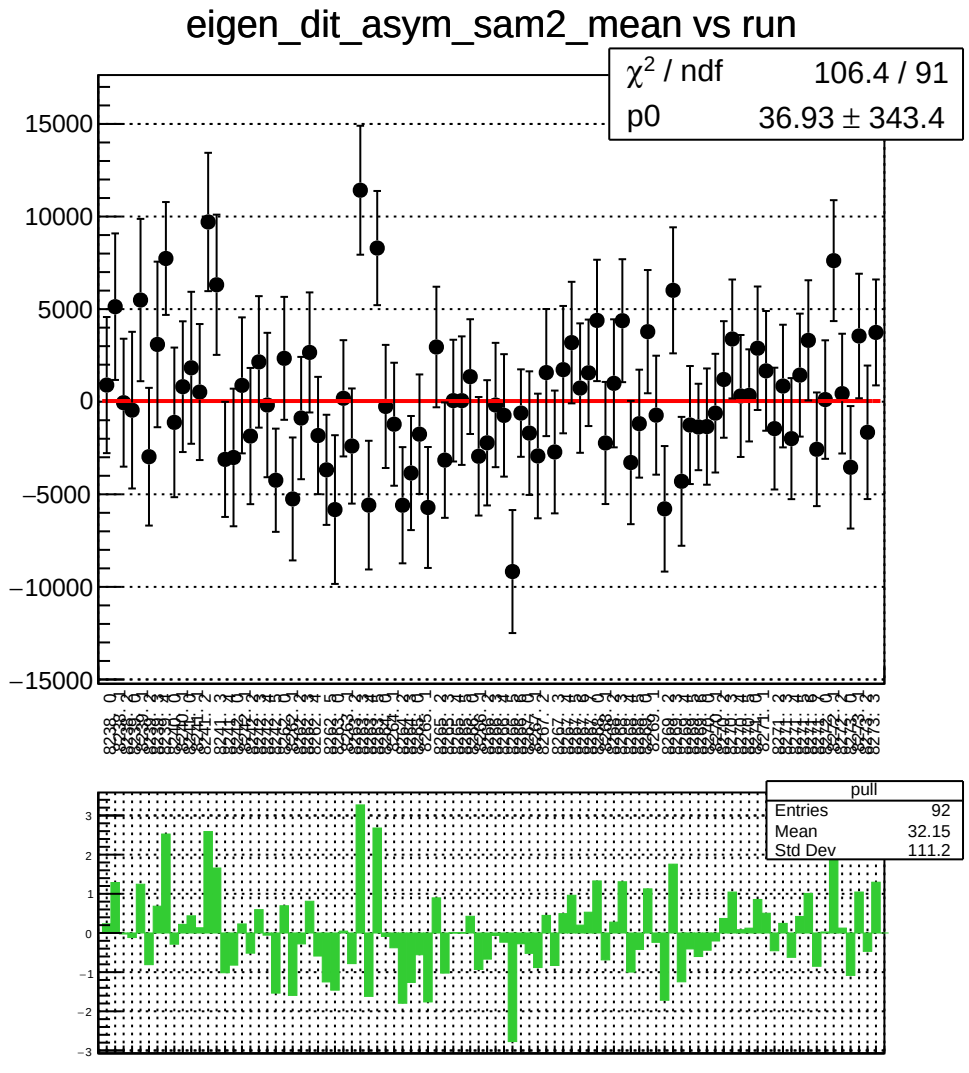

pull1D
Entries 92
Mean 0.01475
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

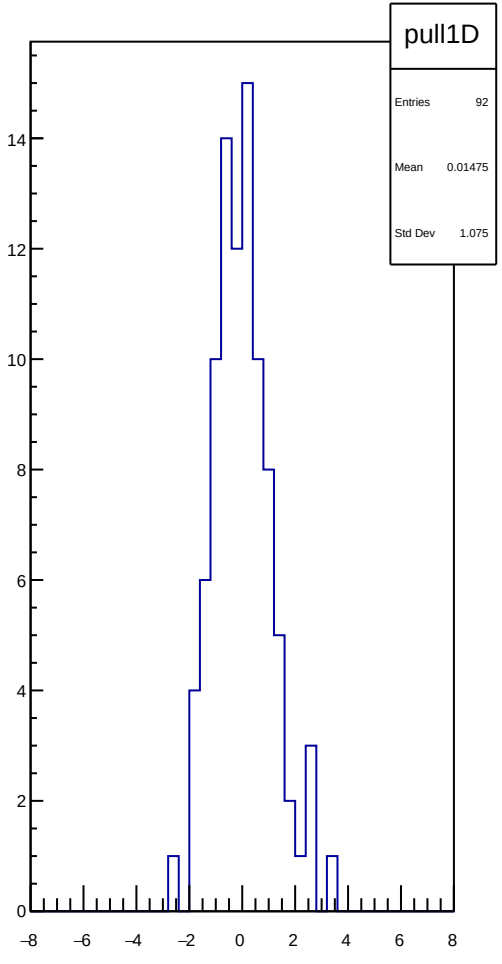

dit_asym_sam2_rms vs run
χ² / ndf 1.262e+04 / 91
p0 323.1 ± 0.2428
480
460
440
420
400
380
360
340
320
300
280

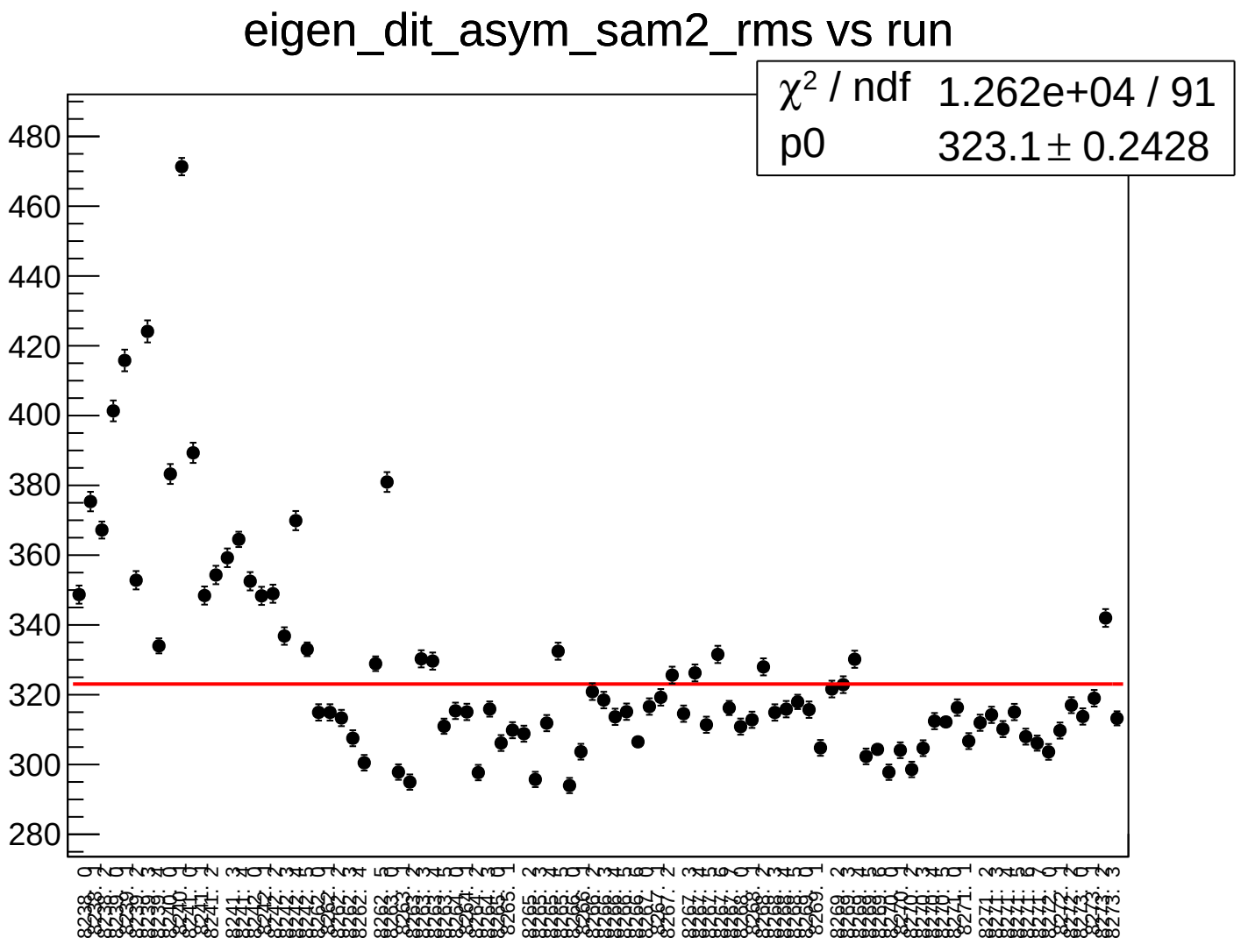

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 60.18 / 91
p0 −1.56e+04 ± 4992
pull
Entries 92
Mean −507.9
Std Dev 0

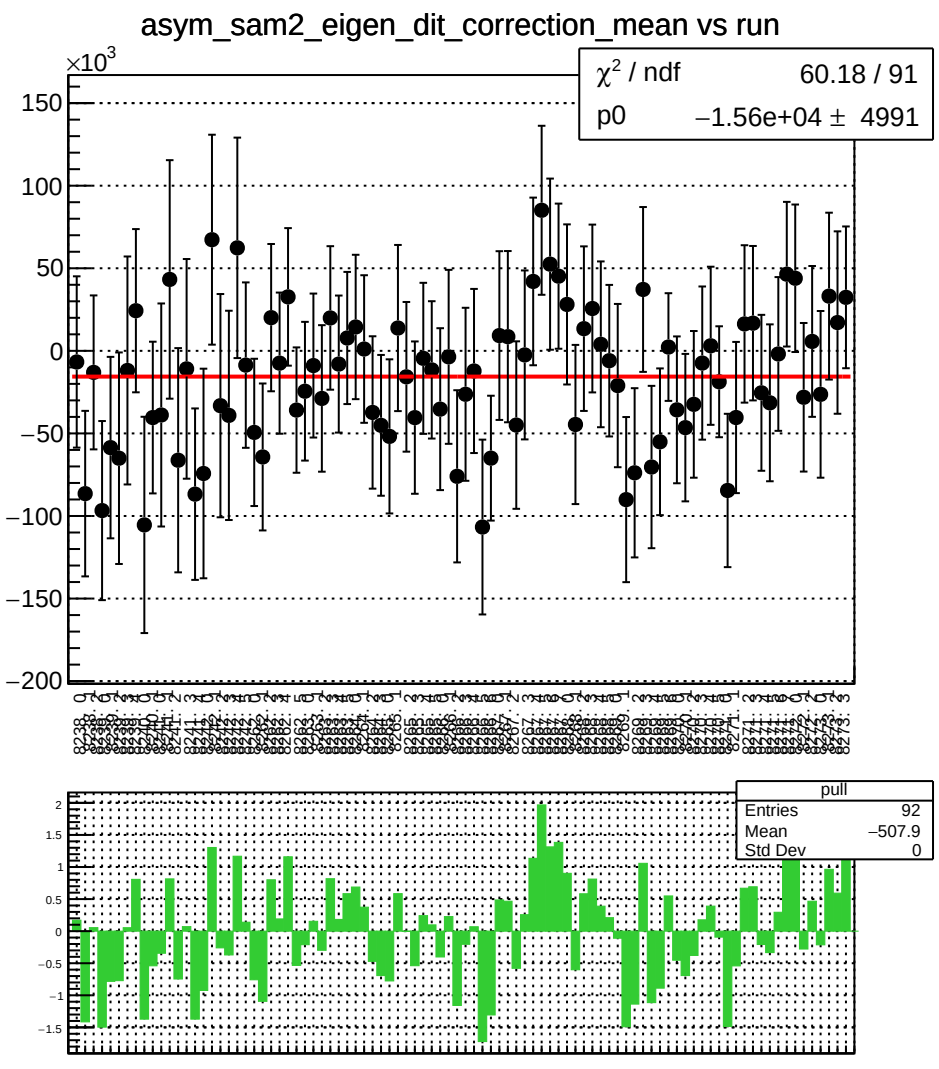

pull1D
Entries 92
Mean −0.00845
Std Dev 0.8087

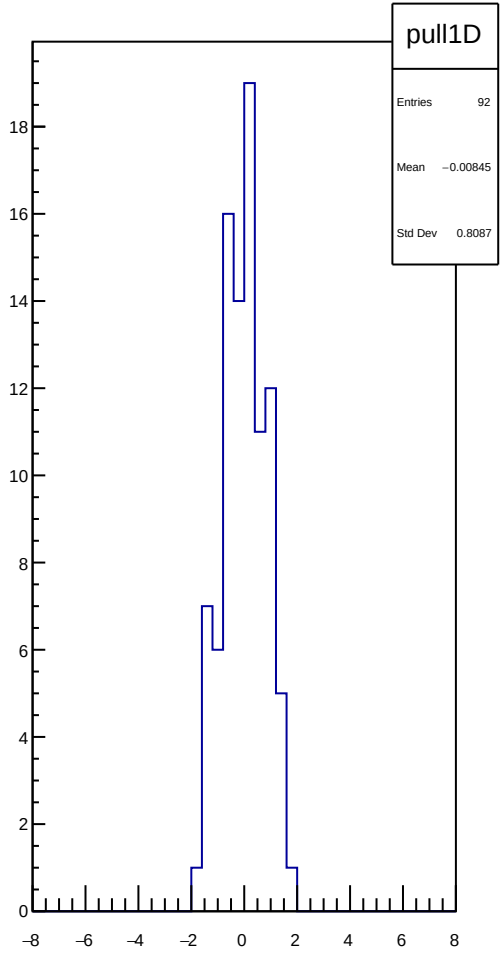

asym_sam2_dit_correction_rms vs run
χ² / ndf 2.982e+04 / 91
p0 4673 ± 3.53
7000
6500
6000
5500
5000
4500
4000

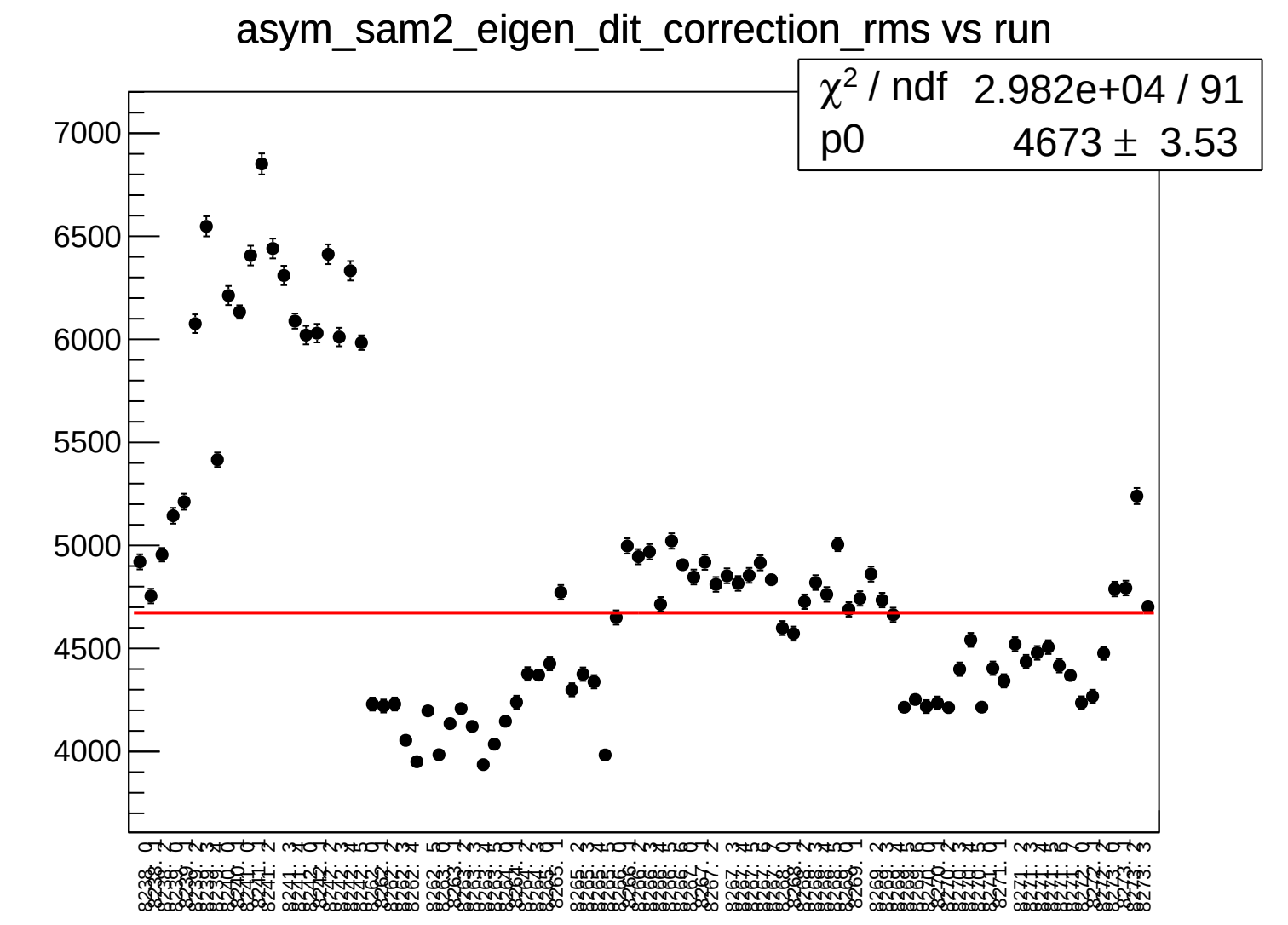

eigen_dit_asym_sam2_mean vs run
χ² / ndf 106.4 / 91
p0 36.93 ± 343.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 32.15
Std Dev 111.2
3
2
1
0
−1
−2
−3

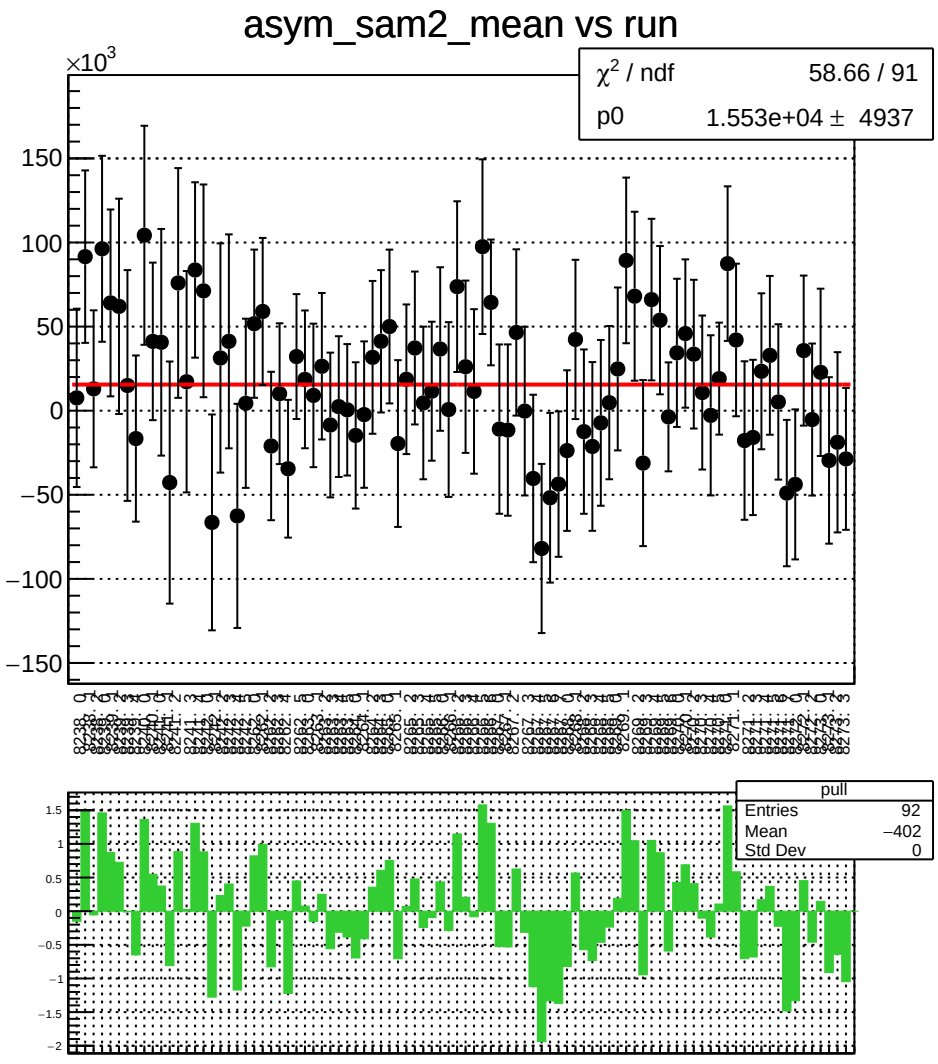

pull1D
Entries 92
Mean 0.01475
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

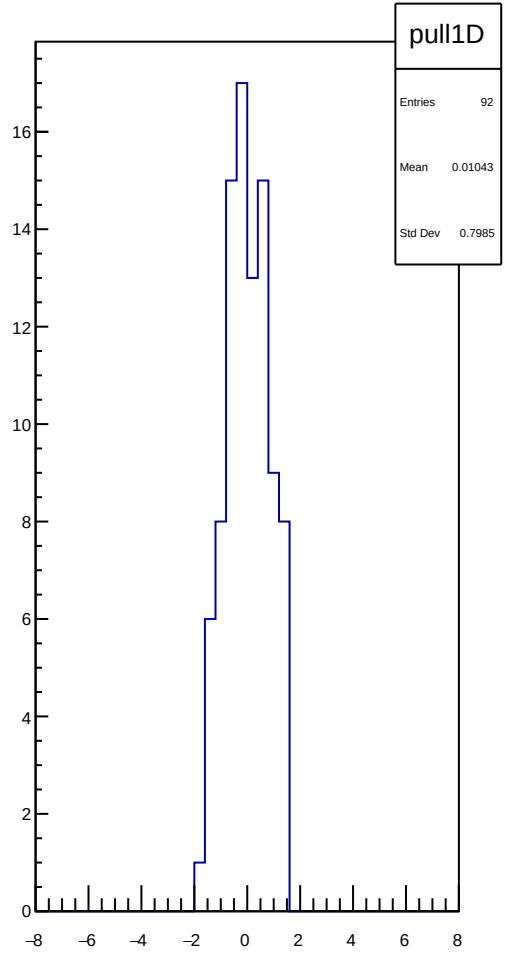

eigen_dit_asym_sam2_rms vs run
χ² / ndf 1.262e+04 / 91
p0 323.1 ± 0.2428
480
460
440
420
400
380
360
340
320
300
280

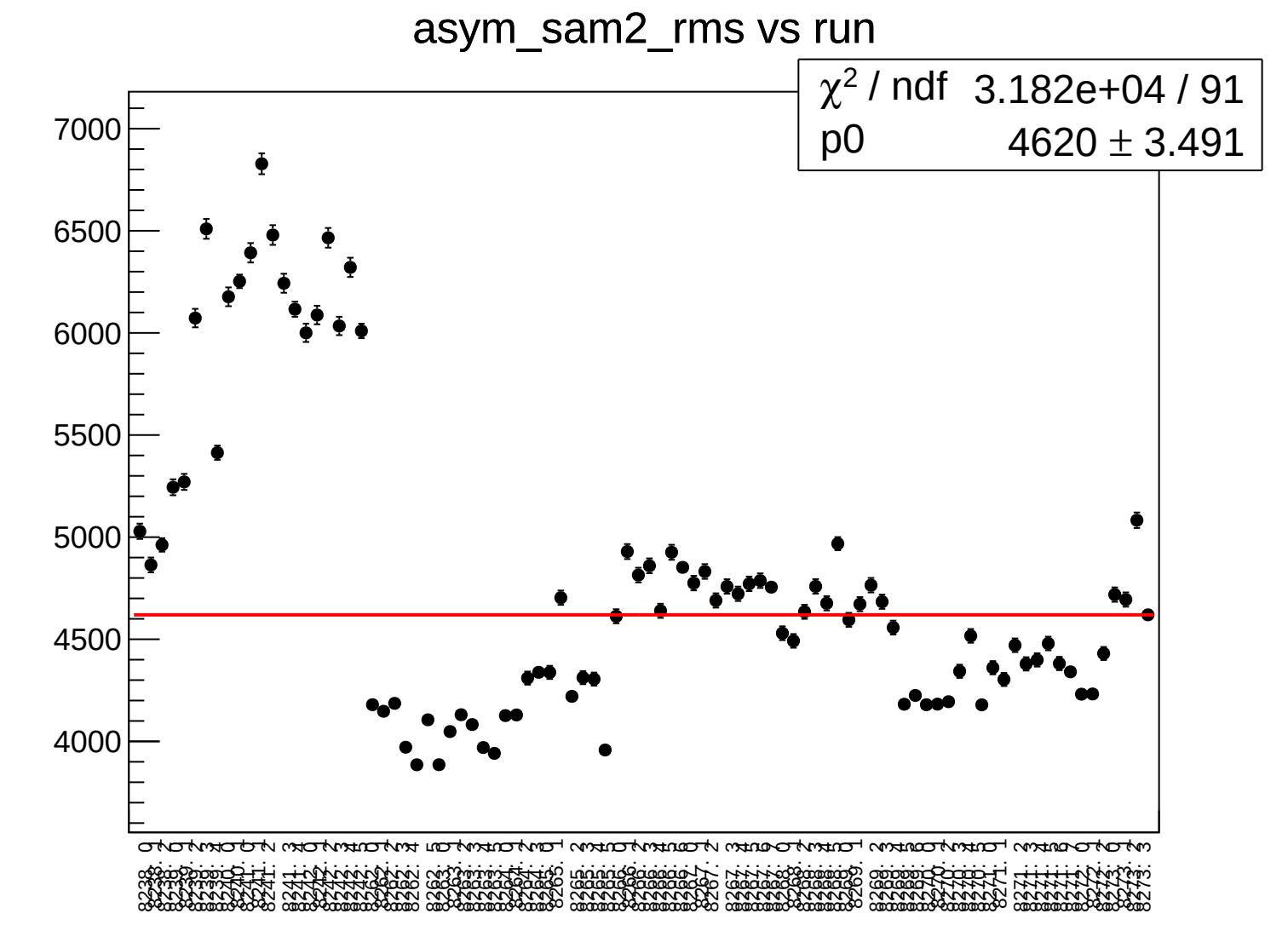

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 60.18 / 91
p0 −1.56e+04 ± 4991
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −507.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

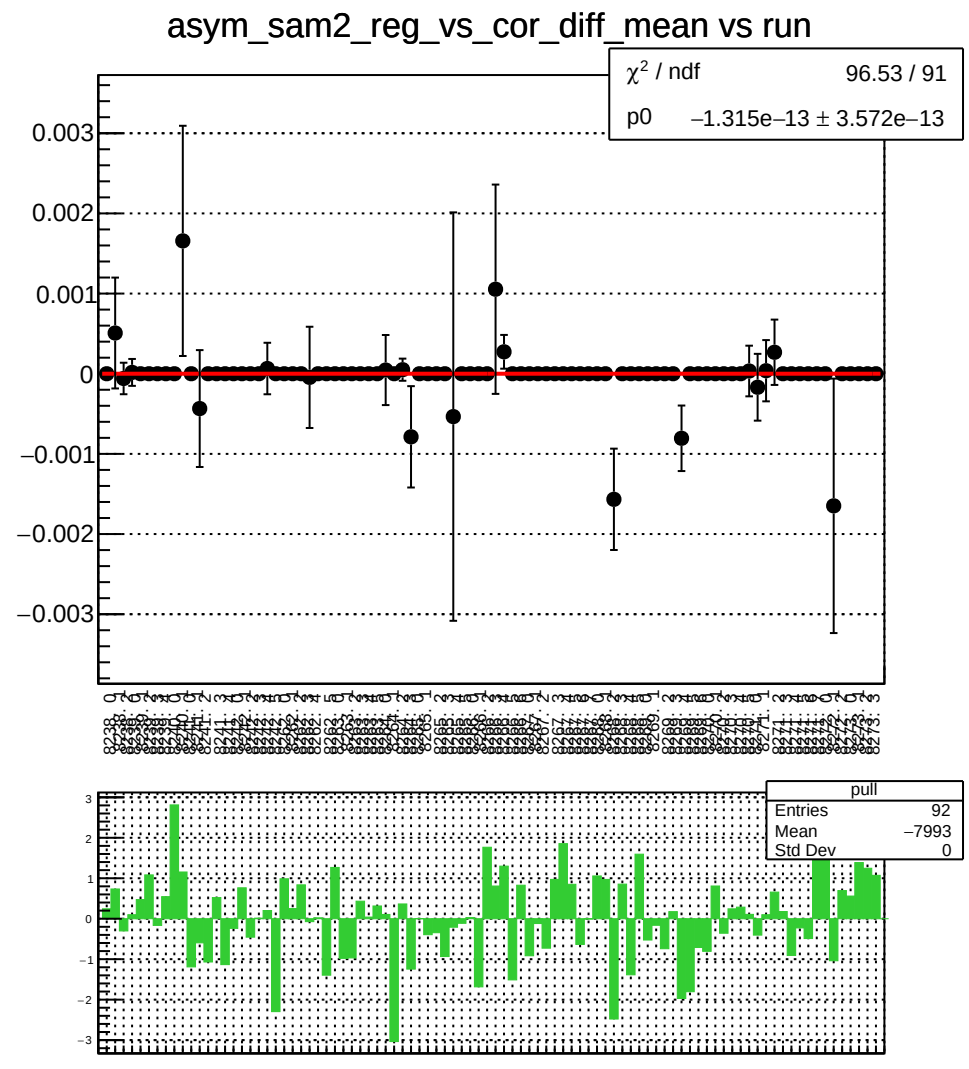

pull1D
Entries 92
Mean −0.00845
Std Dev 0.8087
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

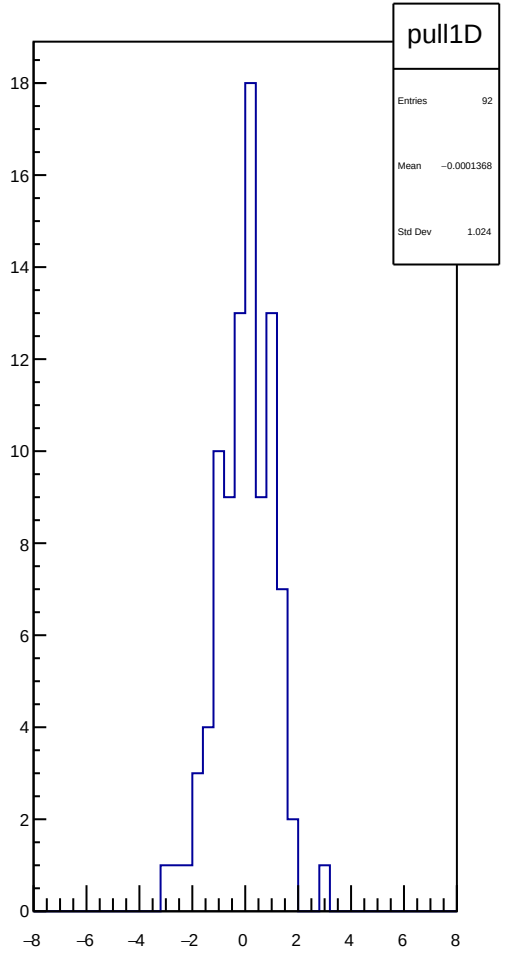

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 2.982e+04 / 91
p0 4673 ± 3.53
7000
6500
6000
5500
5000
4500
4000

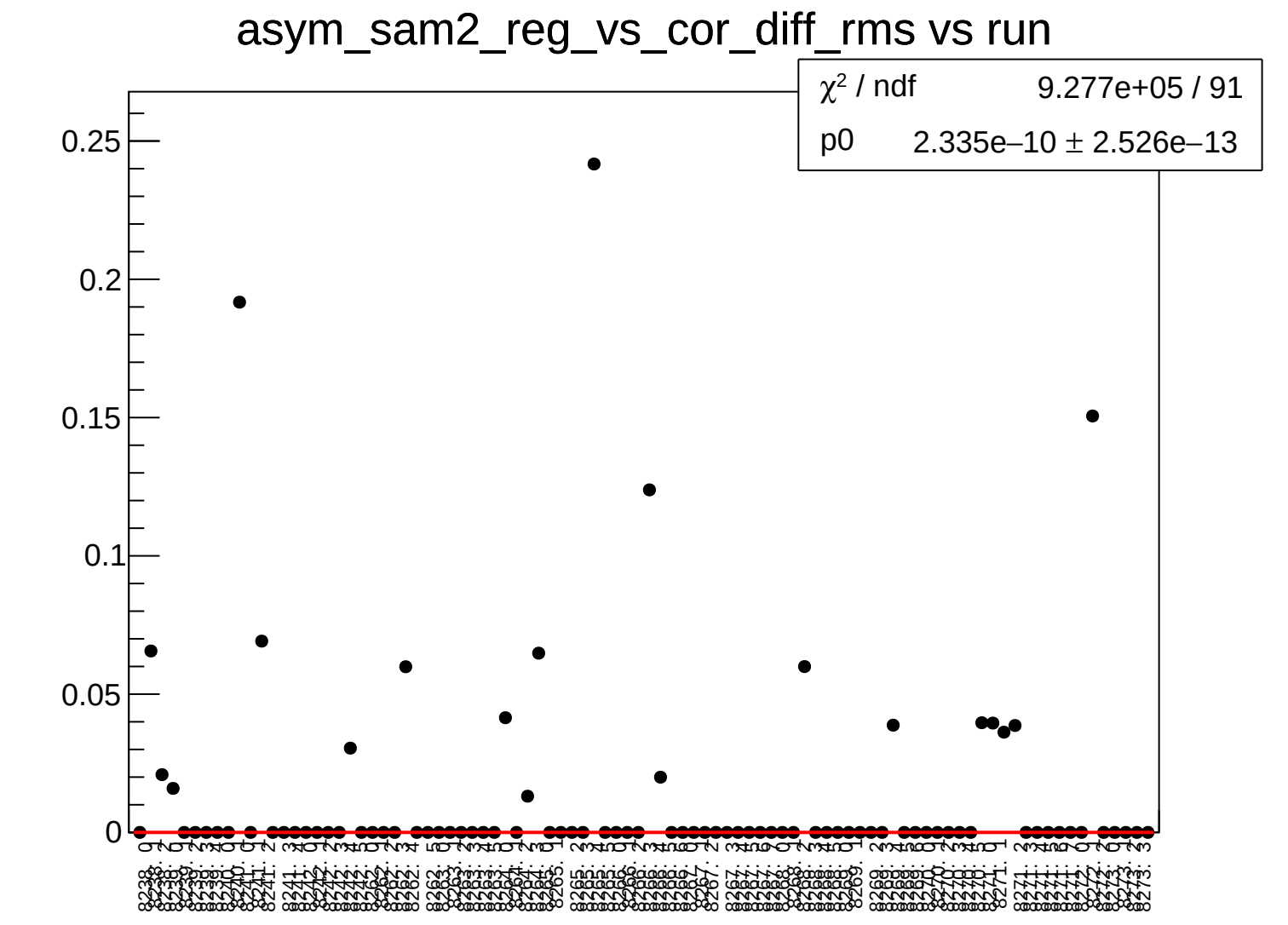

asym_sam2_mean vs run
×10^3
χ^2 / ndf 58.66 / 91
p0 1.553e+04 ± 4937
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −402
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

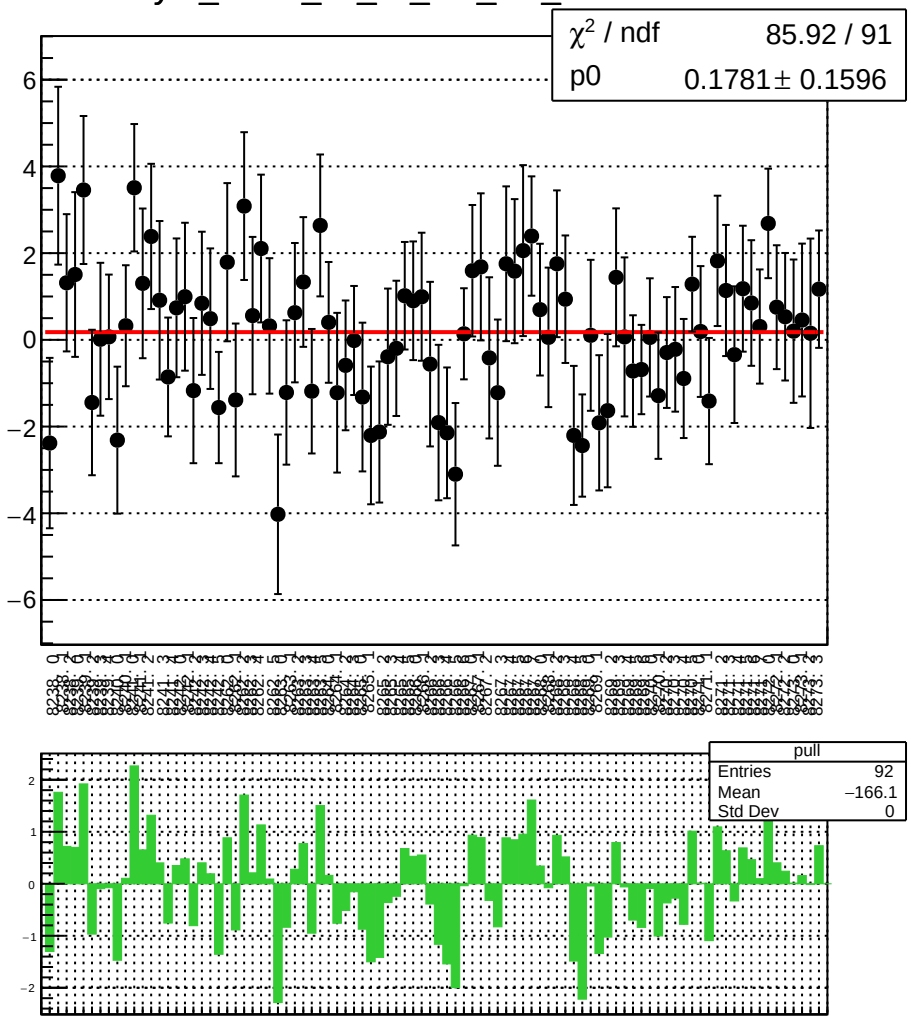

pull1D
Entries 92
Mean 0.01043
Std Dev 0.7985
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

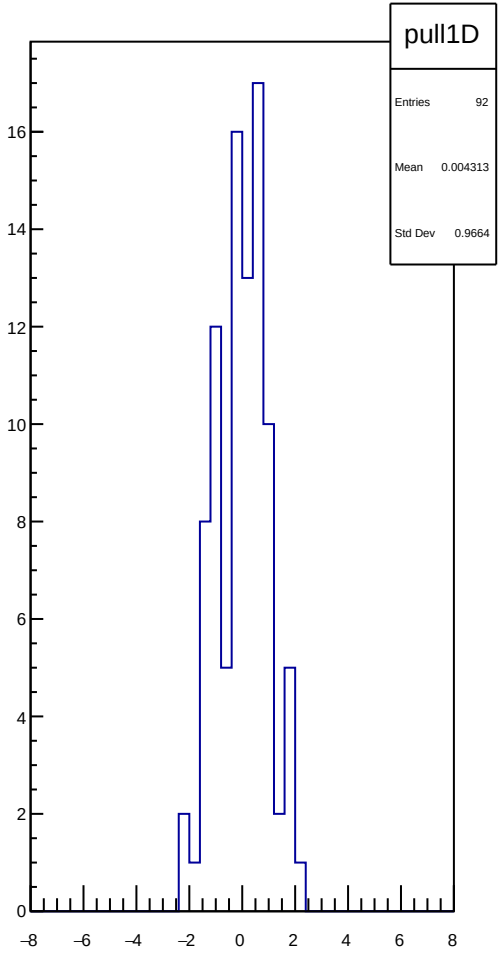

asym_sam2_rms vs run
χ² / ndf 3.182e+04 / 91
p0 4620 ± 3.491
7000
6500
6000
5500
5000
4500
4000

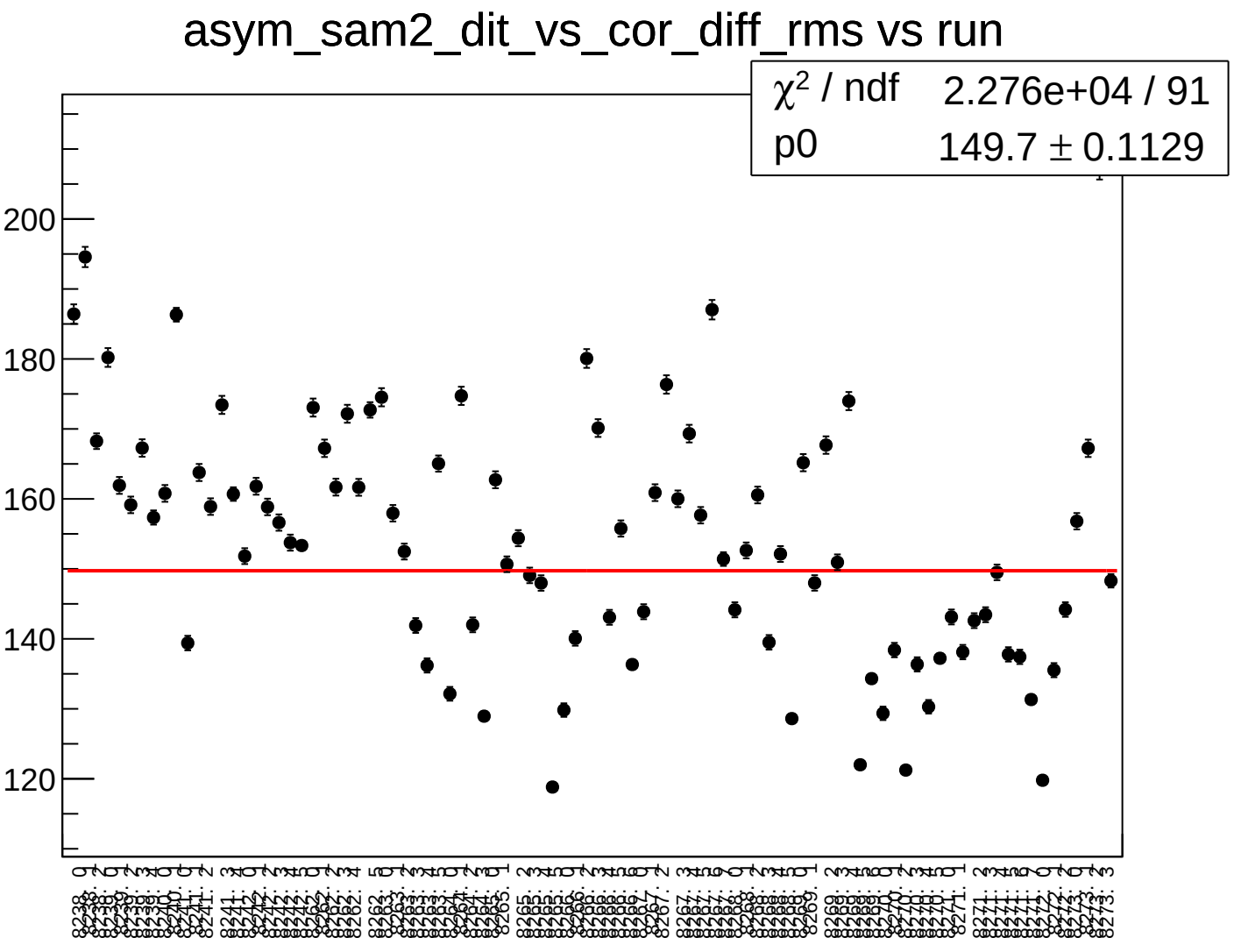

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 96.53 / 91
p0 −1.315e−13 ± 3.572e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 92
Mean −7993
Std Dev 0
3
2
1
0
−1
−2
−3

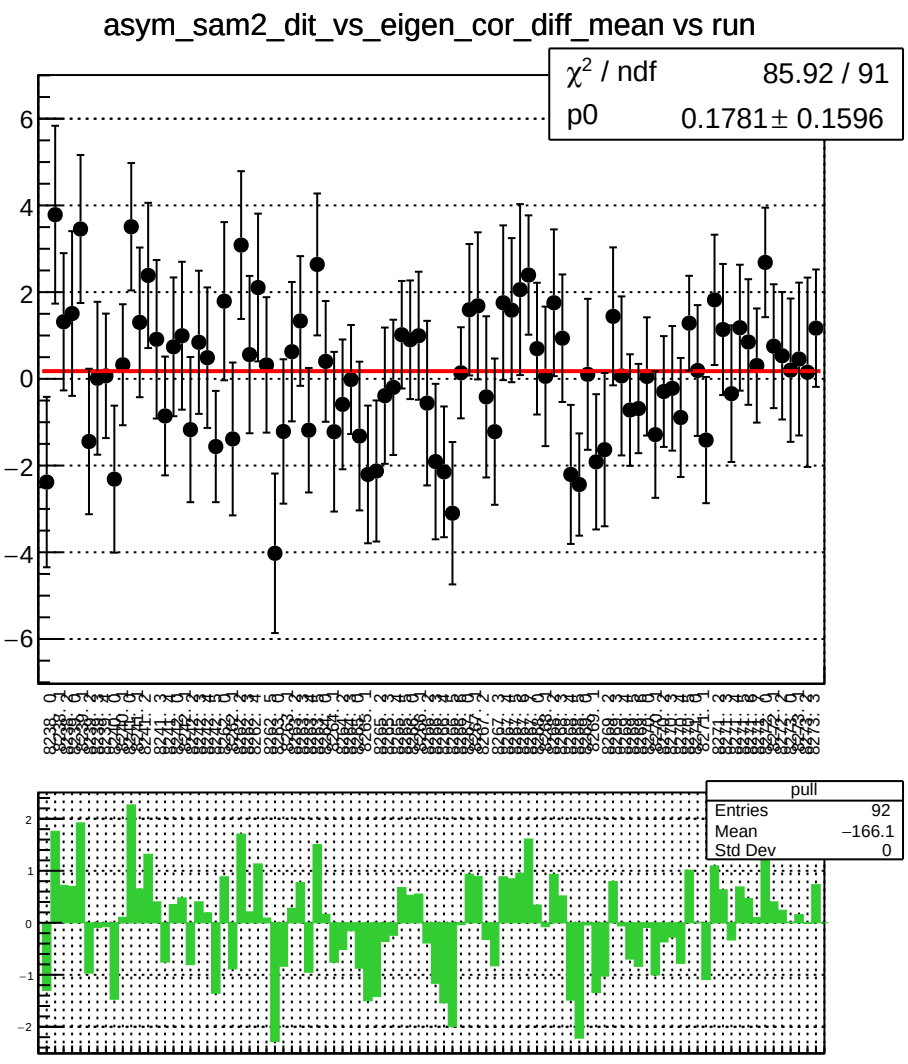

pull1D
Entries 92
Mean −0.0001368
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

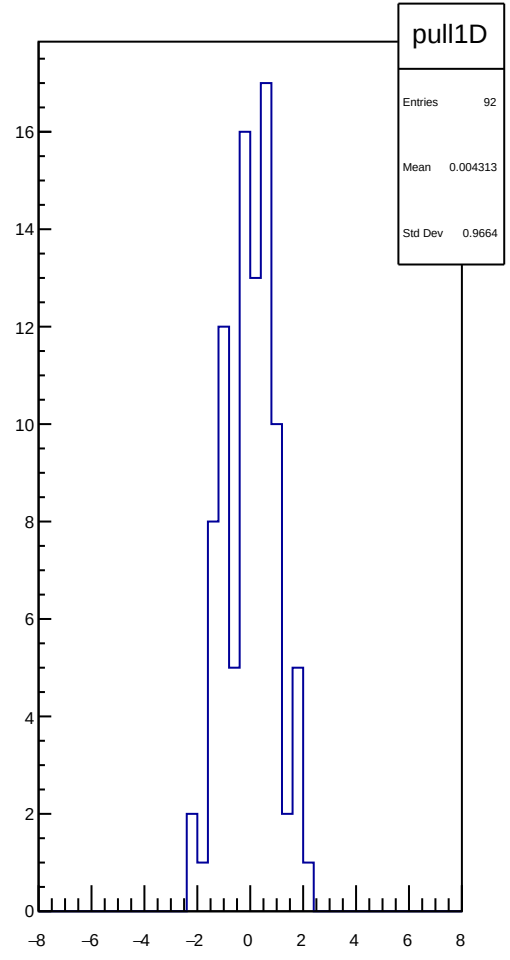

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.277e+05 / 91
p0 2.335e−10 ± 2.526e−13
0.25
0.2
0.15
0.1
0.05
0

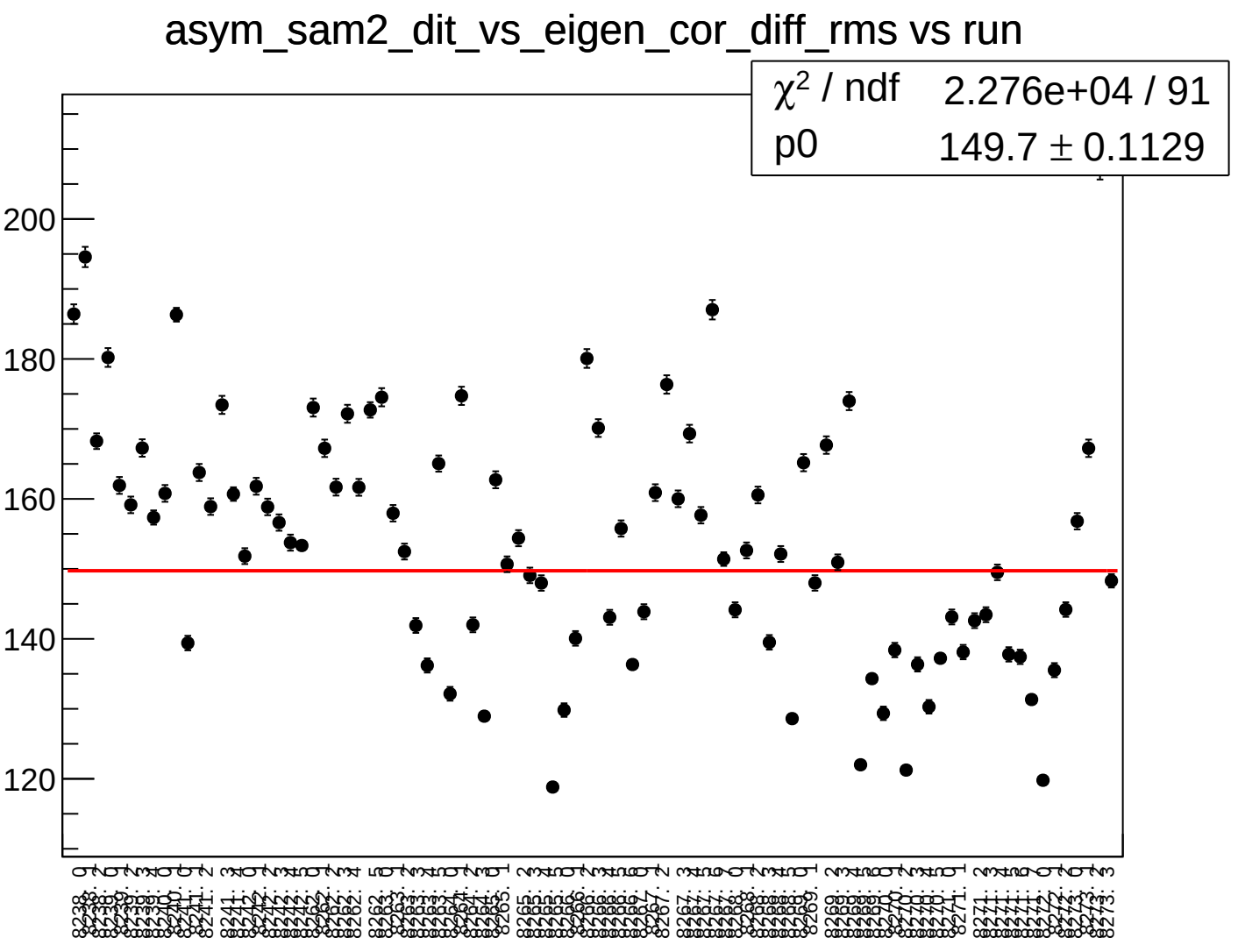

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 85.92 / 91
p0 0.1781 ± 0.1596
pull
Entries 92
Mean −166.1
Std Dev 0

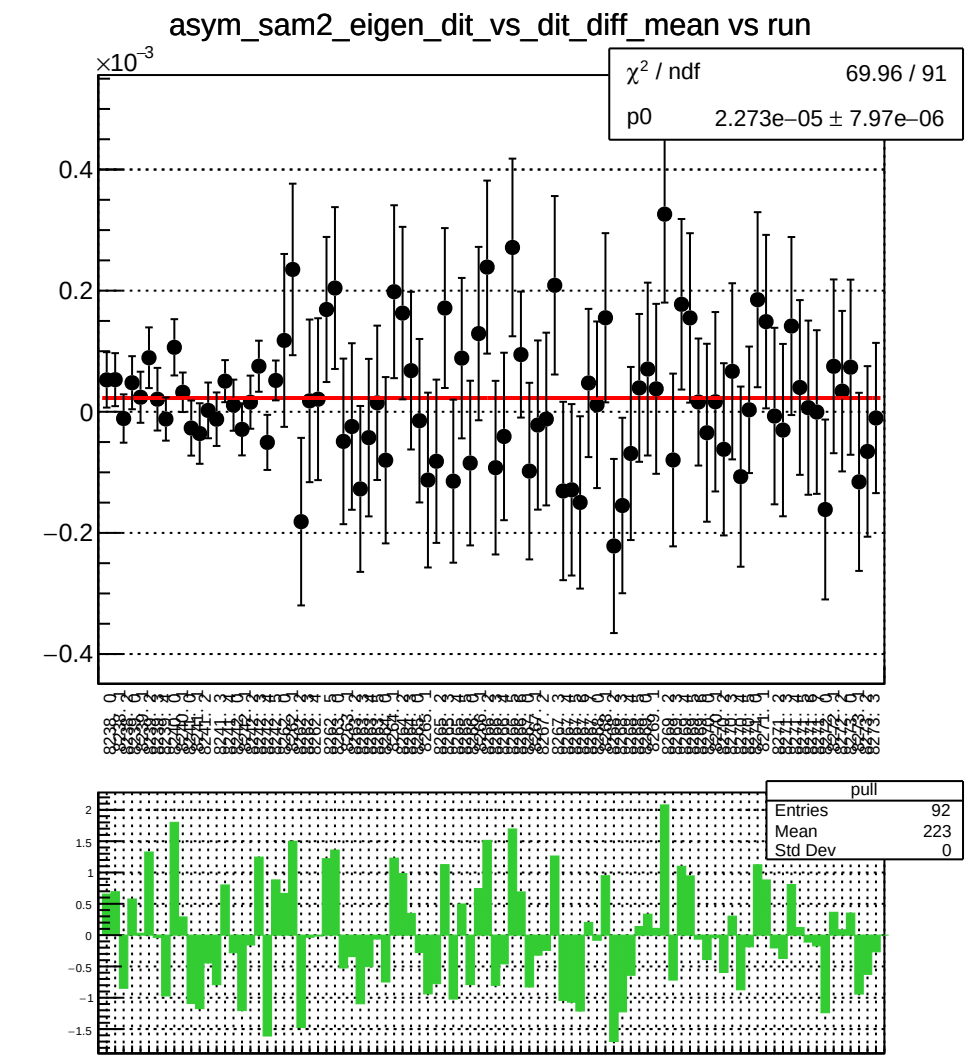

pull1D
Entries 92
Mean 0.004313
Std Dev 0.9664

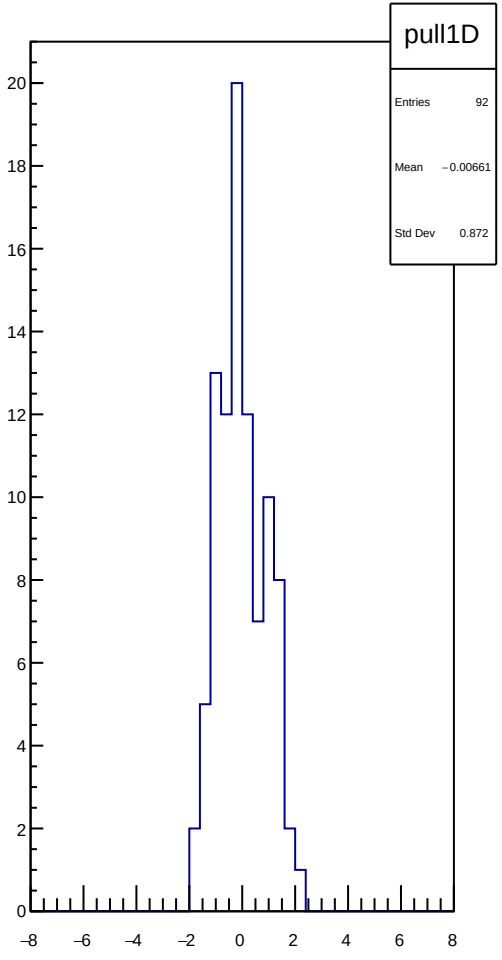

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.276e+04 / 91
p0 149.7 ± 0.1129
200
180
160
140
120

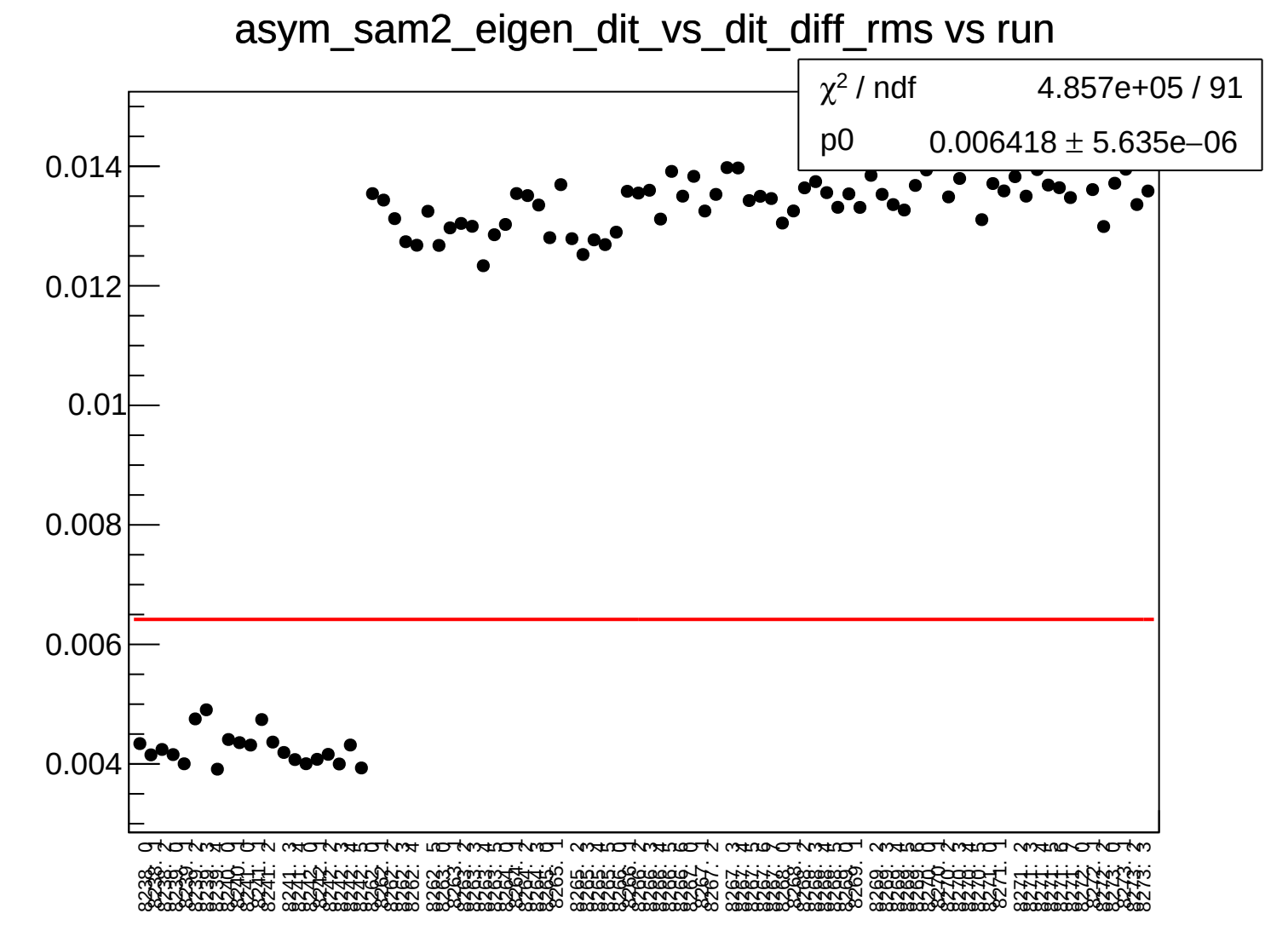

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.92 / 91
p0 0.1781 ± 0.1596
pull
Entries 92
Mean −166.1
Std Dev 0

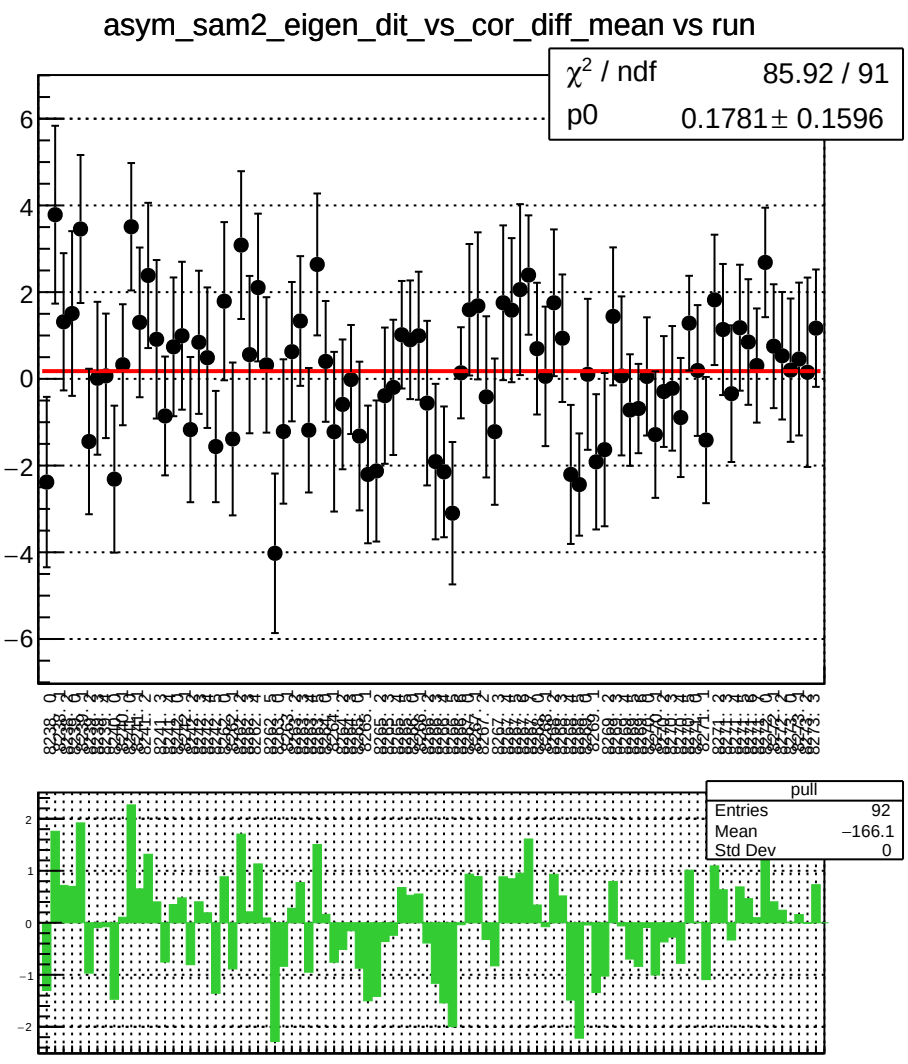

pull1D
Entries 92
Mean 0.004313
Std Dev 0.9664

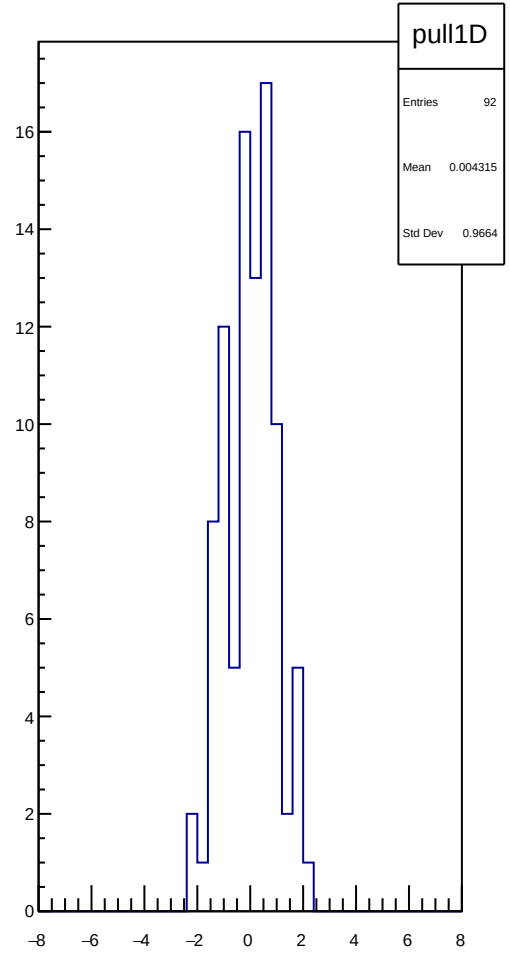

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.276e+04 / 91
p0 149.7 ± 0.1129
200
180
160
140
120

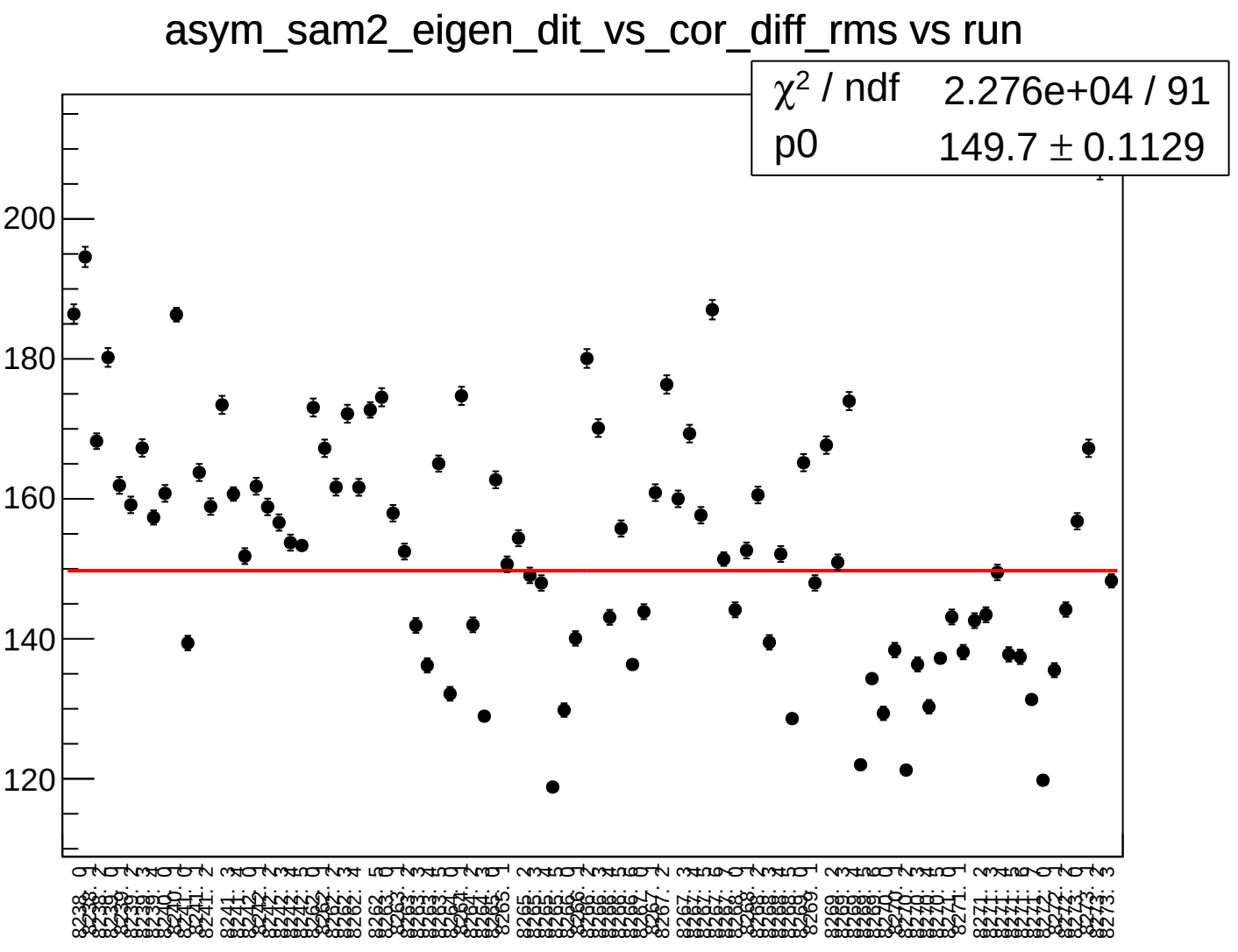

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.96 / 91
p0 2.273e−05 ± 7.97e−06
pull
Entries 92
Mean 223
Std Dev 0

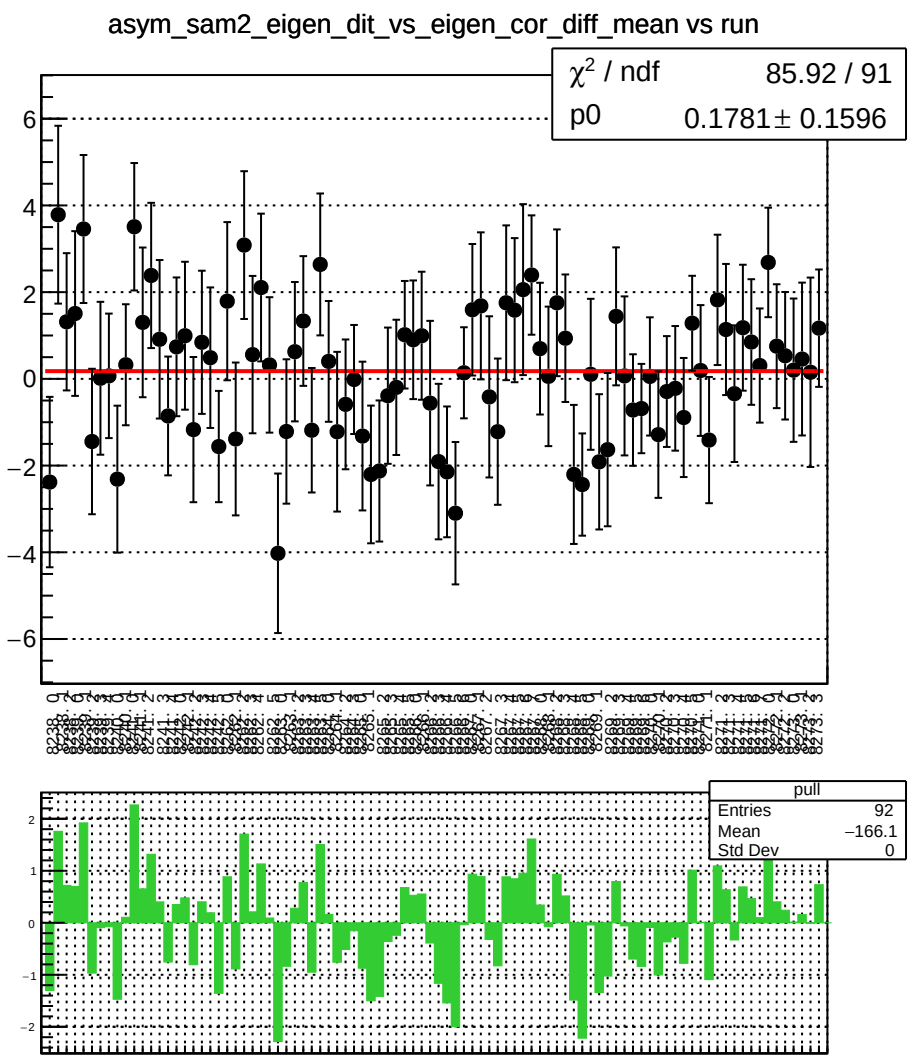

pull1D
Entries 92
Mean −0.00661
Std Dev 0.872

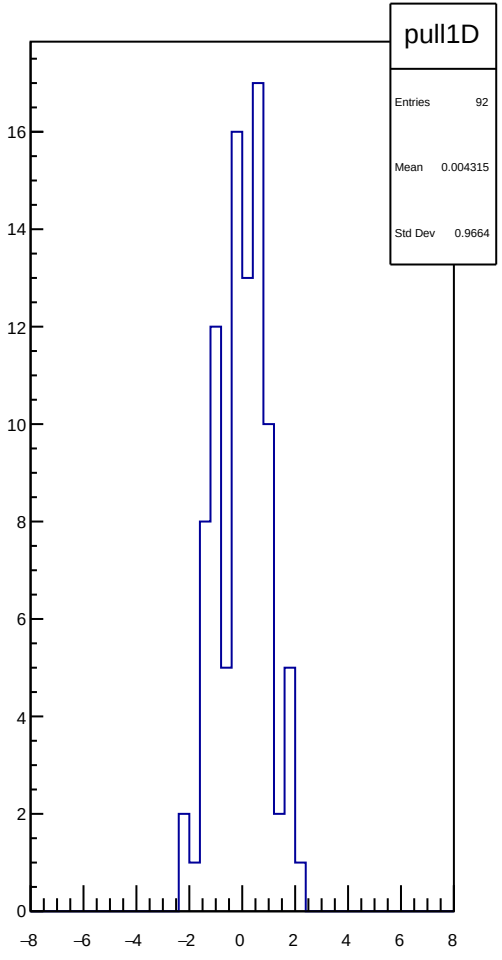

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.857e+05 / 91
p0 0.006418 ± 5.635e−06
0.014
0.012
0.01
0.008
0.006
0.004

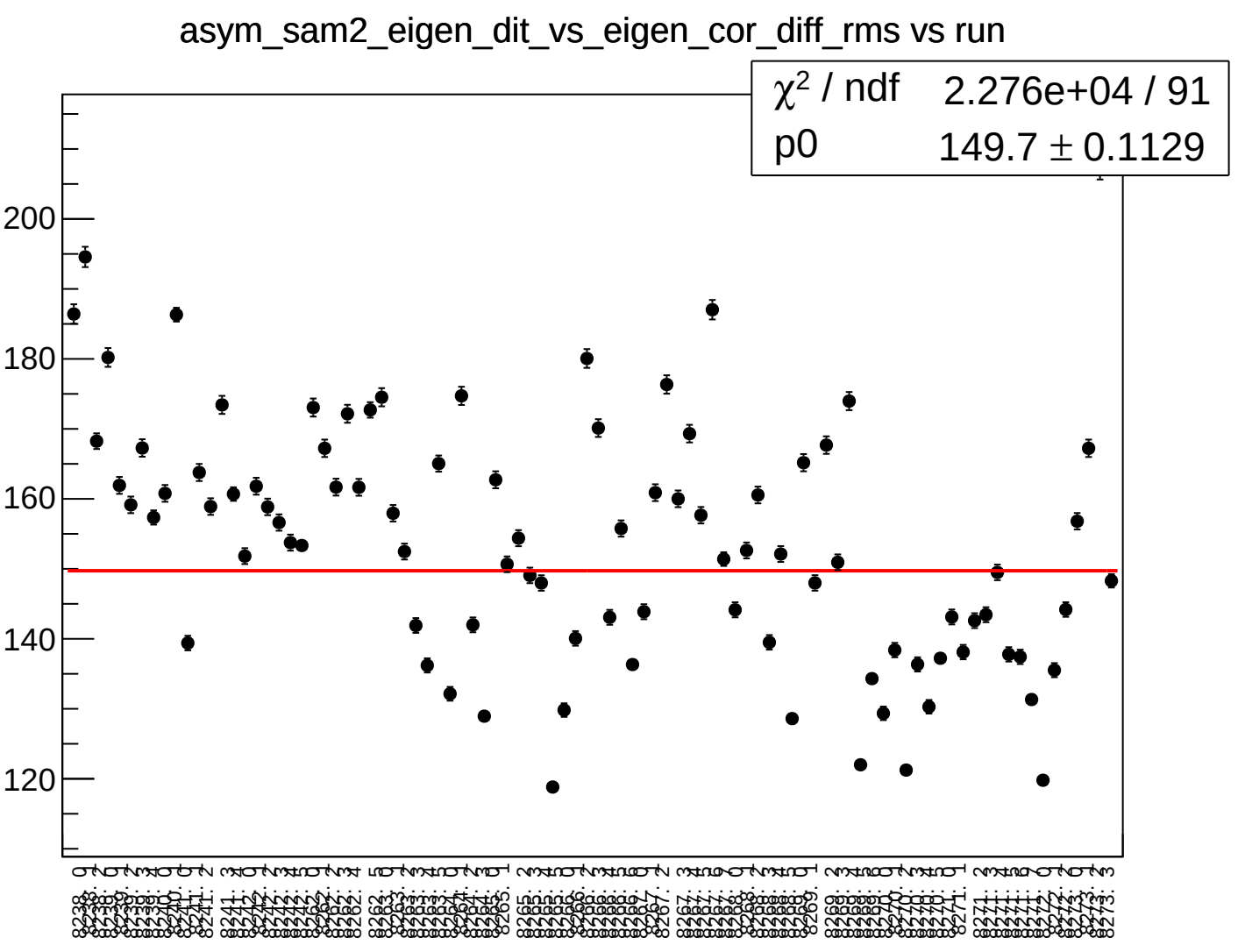

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.92 / 91
p0 0.1781 ± 0.1596
pull
Entries 92
Mean −166.1
Std Dev 0

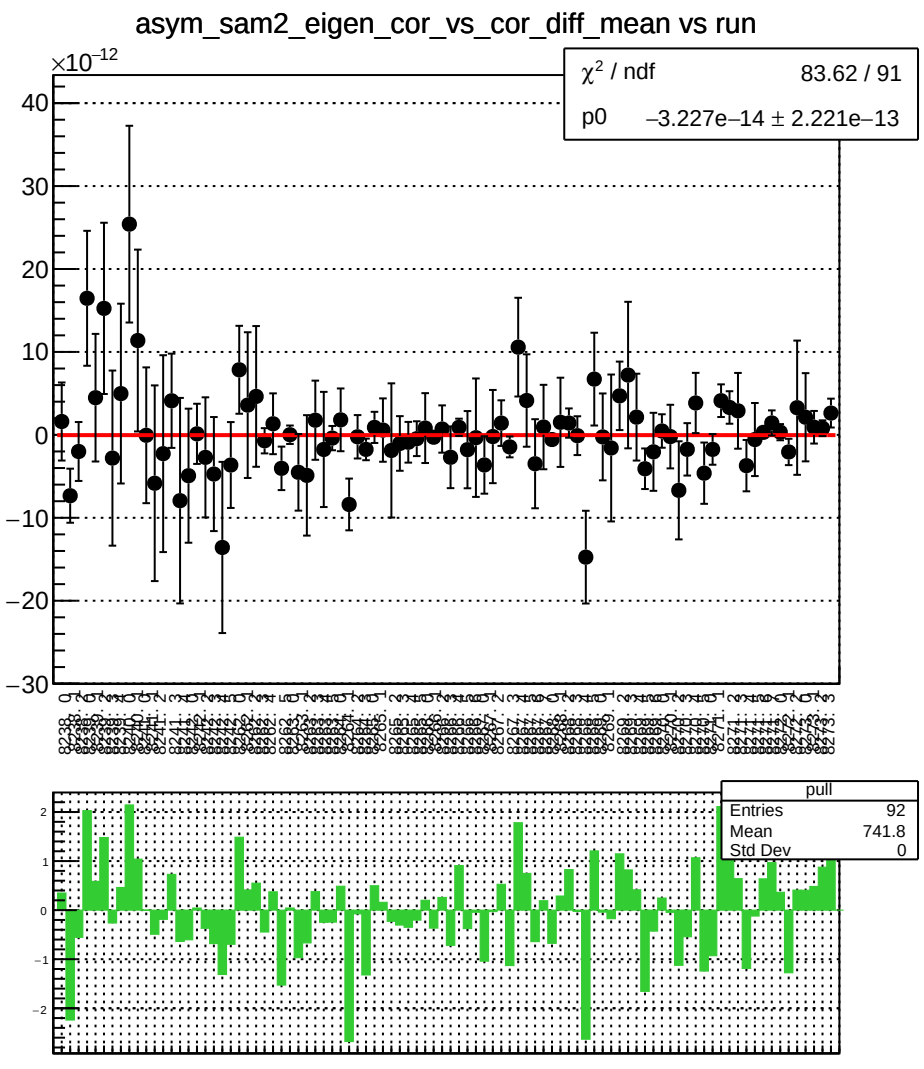

pull1D
Entries 92
Mean 0.004315
Std Dev 0.9664

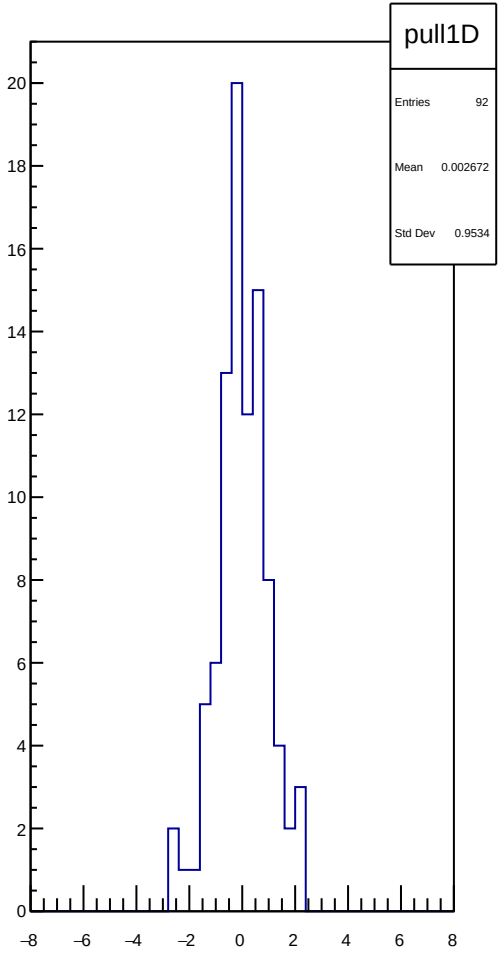

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.276e+04 / 91
p0 149.7 ± 0.1129
200
180
160
140
120

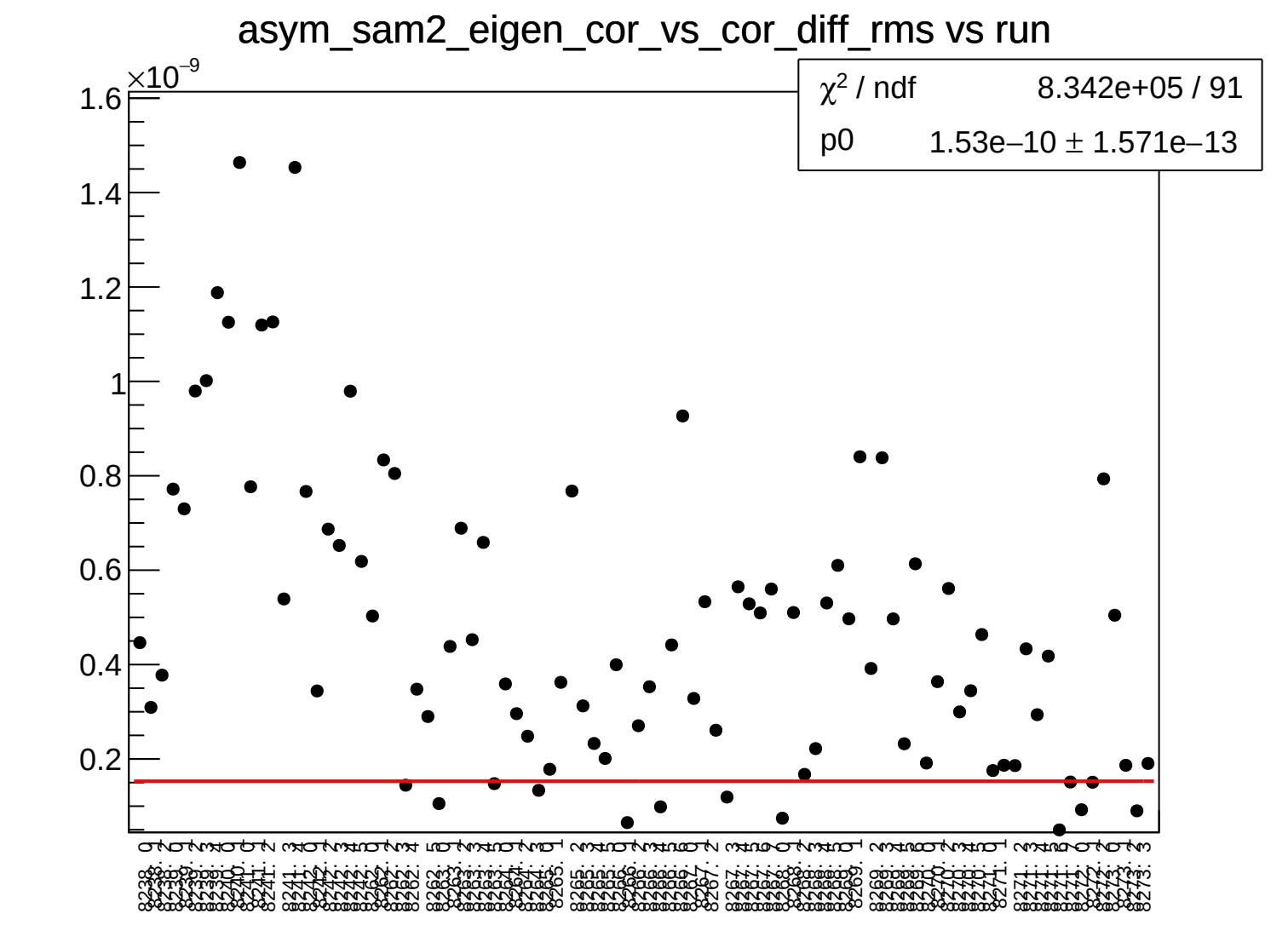

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.92 / 91
p0 0.1781 ± 0.1596
pull
Entries 92
Mean −166.1
Std Dev 0

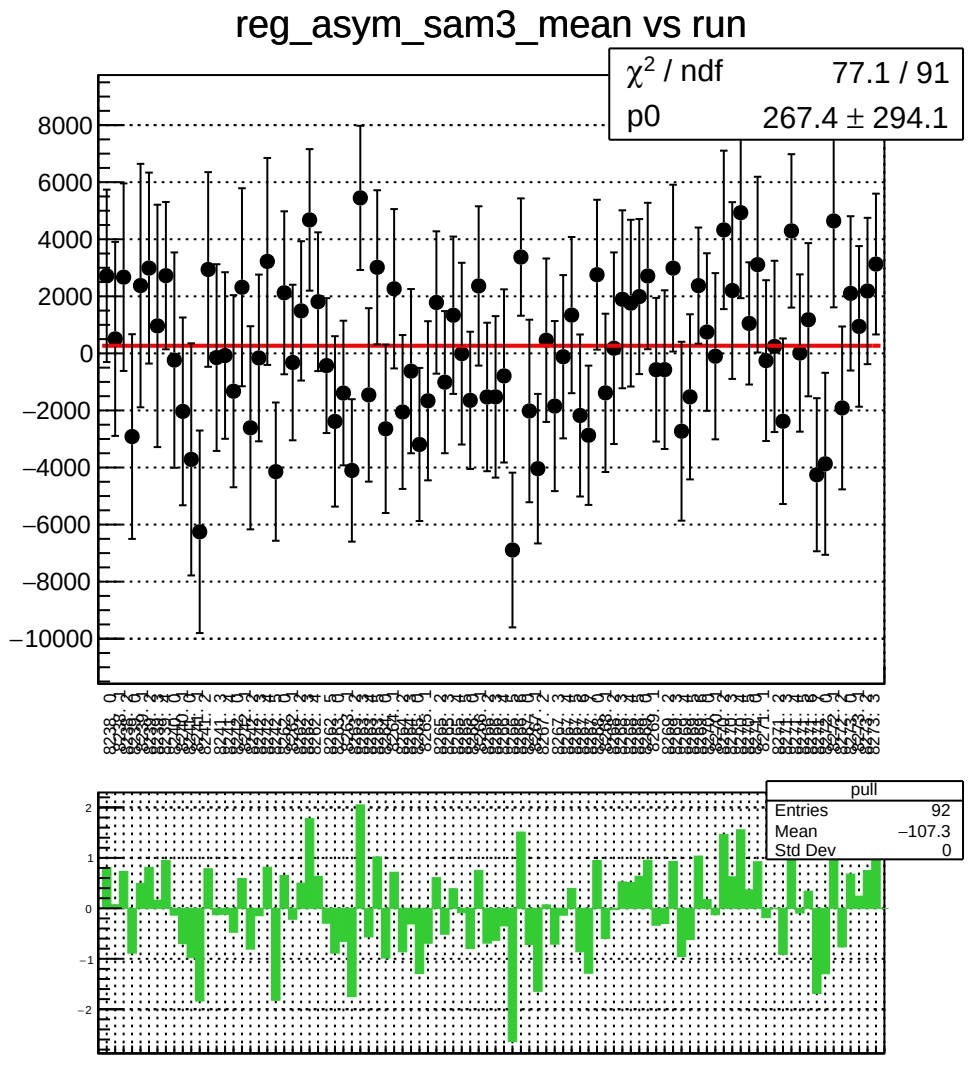

pull1D
Entries 92
Mean 0.004315
Std Dev 0.9664

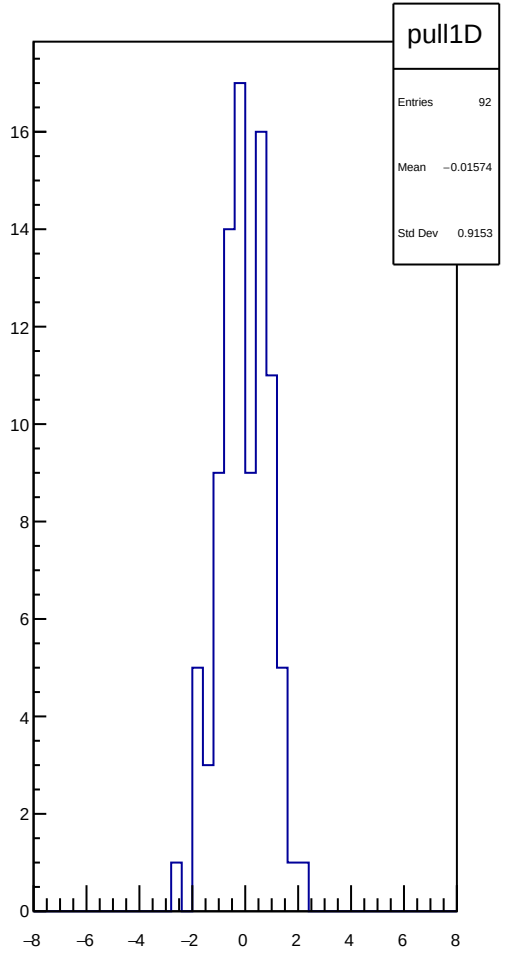

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.276e+04 / 91
p0 149.7 ± 0.1129
200
180
160
140
120

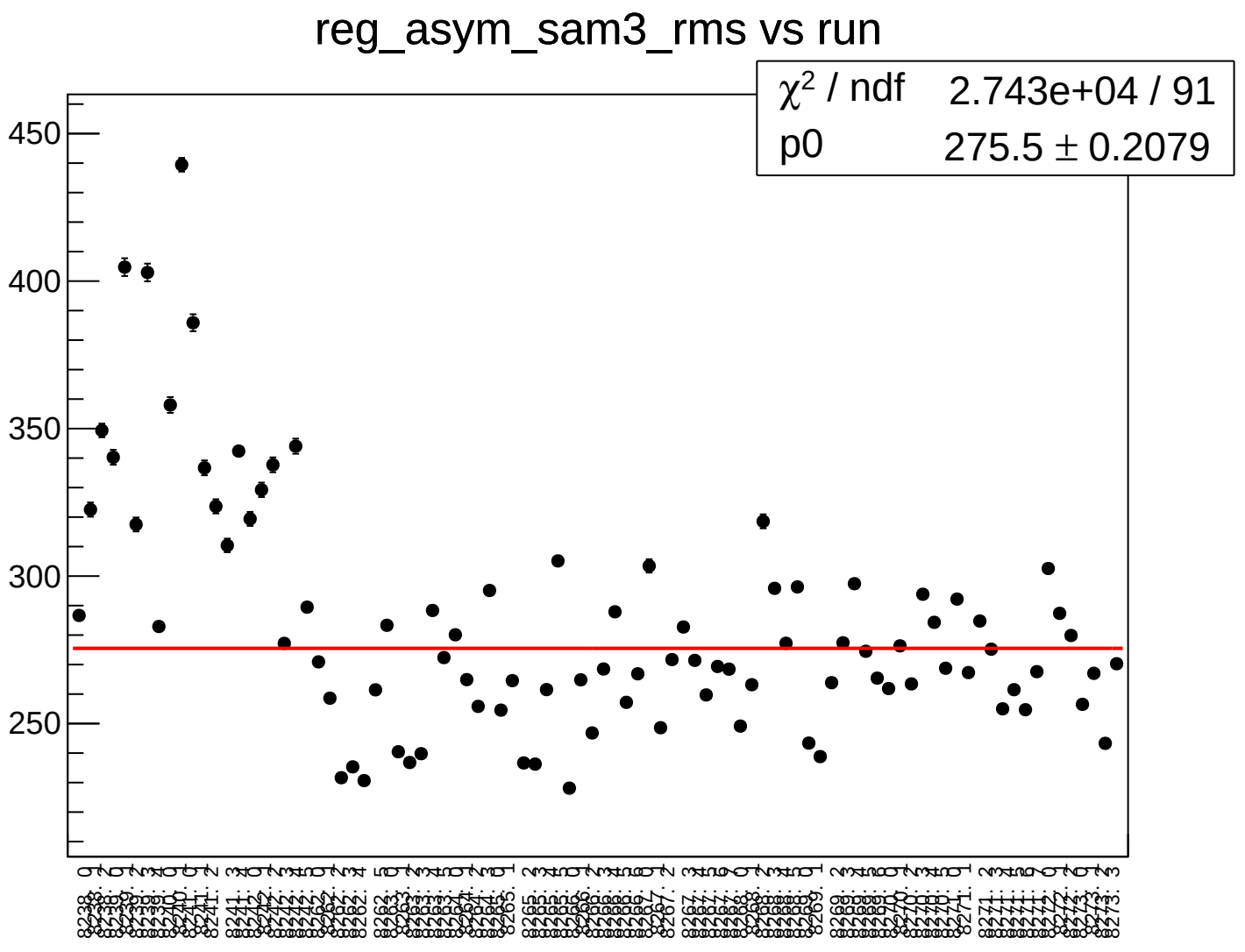

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.62 / 91
p0 −3.227e−14 ± 2.221e−13
pull
Entries 92
Mean 741.8
Std Dev 0

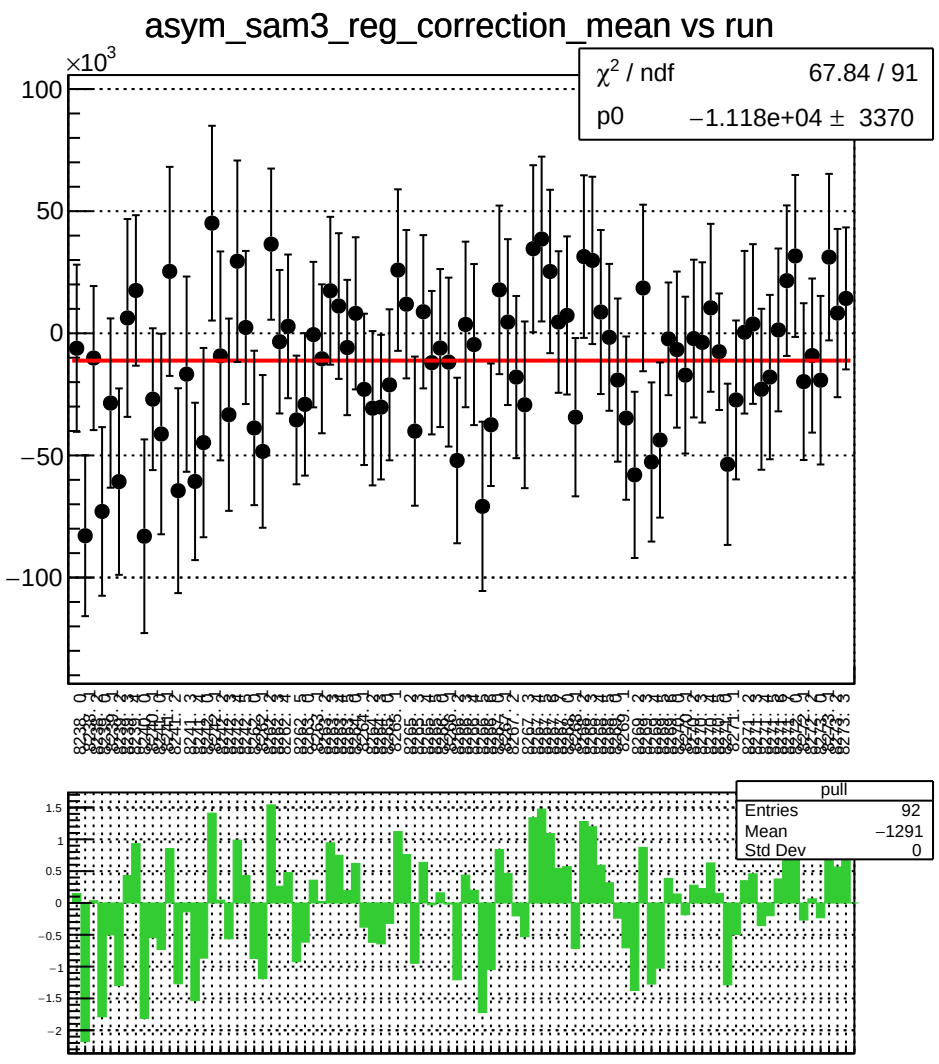

pull1D
Entries 92
Mean 0.002672
Std Dev 0.9534

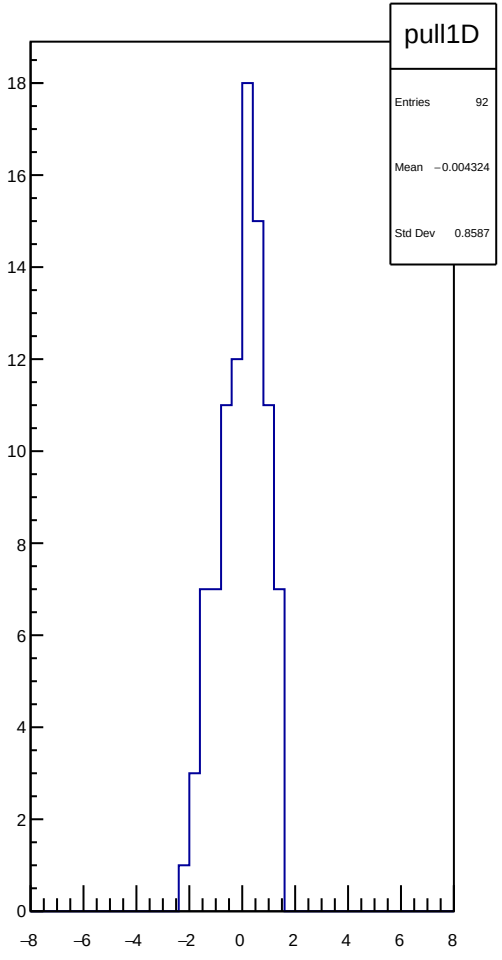

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.342e+05 / 91
p0 1.53e−10 ± 1.571e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

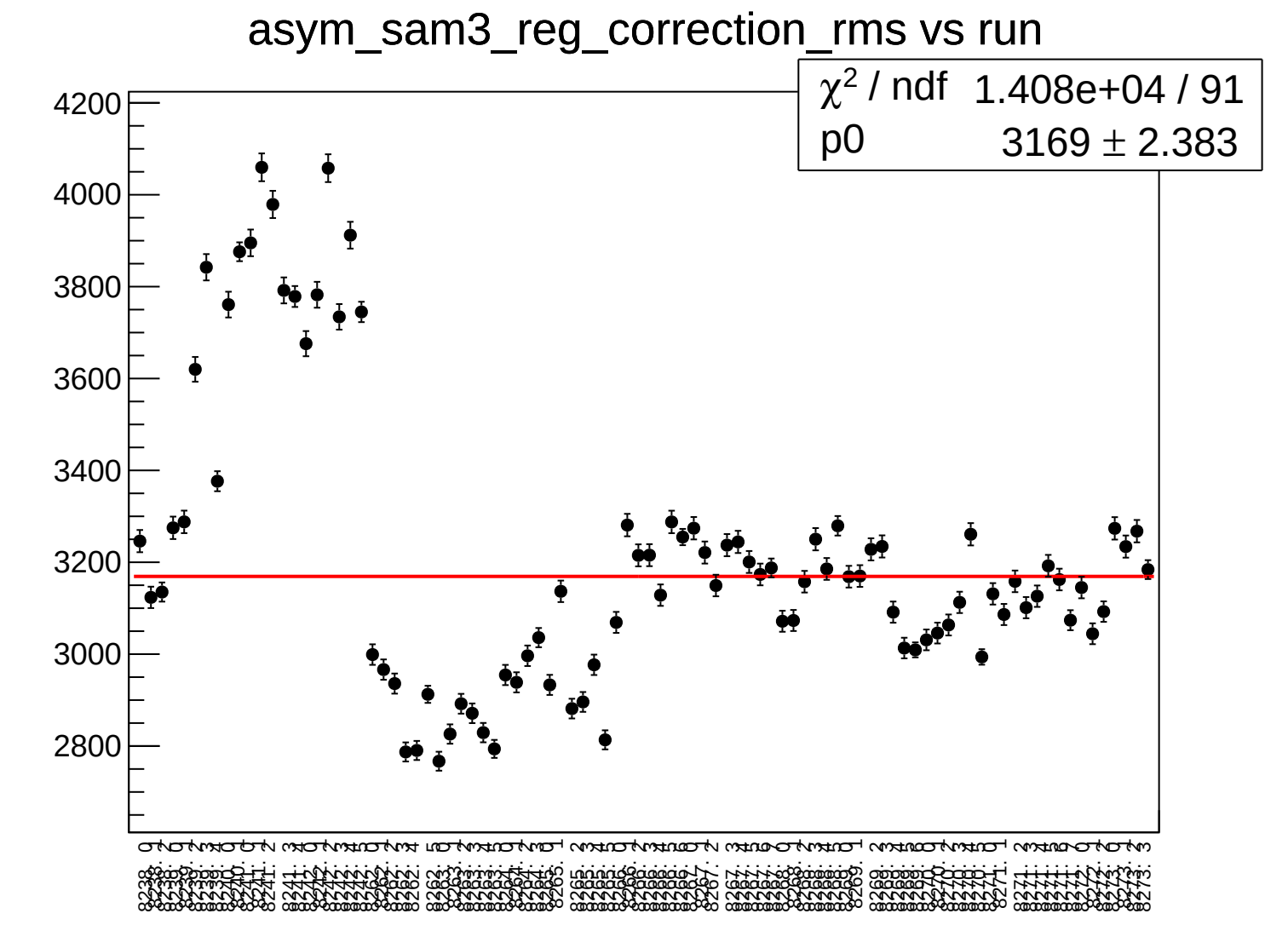

reg_asym_sam3_mean vs run
χ² / ndf 77.1 / 91
p0 267.4 ± 294.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 92
Mean −107.3
Std Dev 0
2
1
0
−1
−2

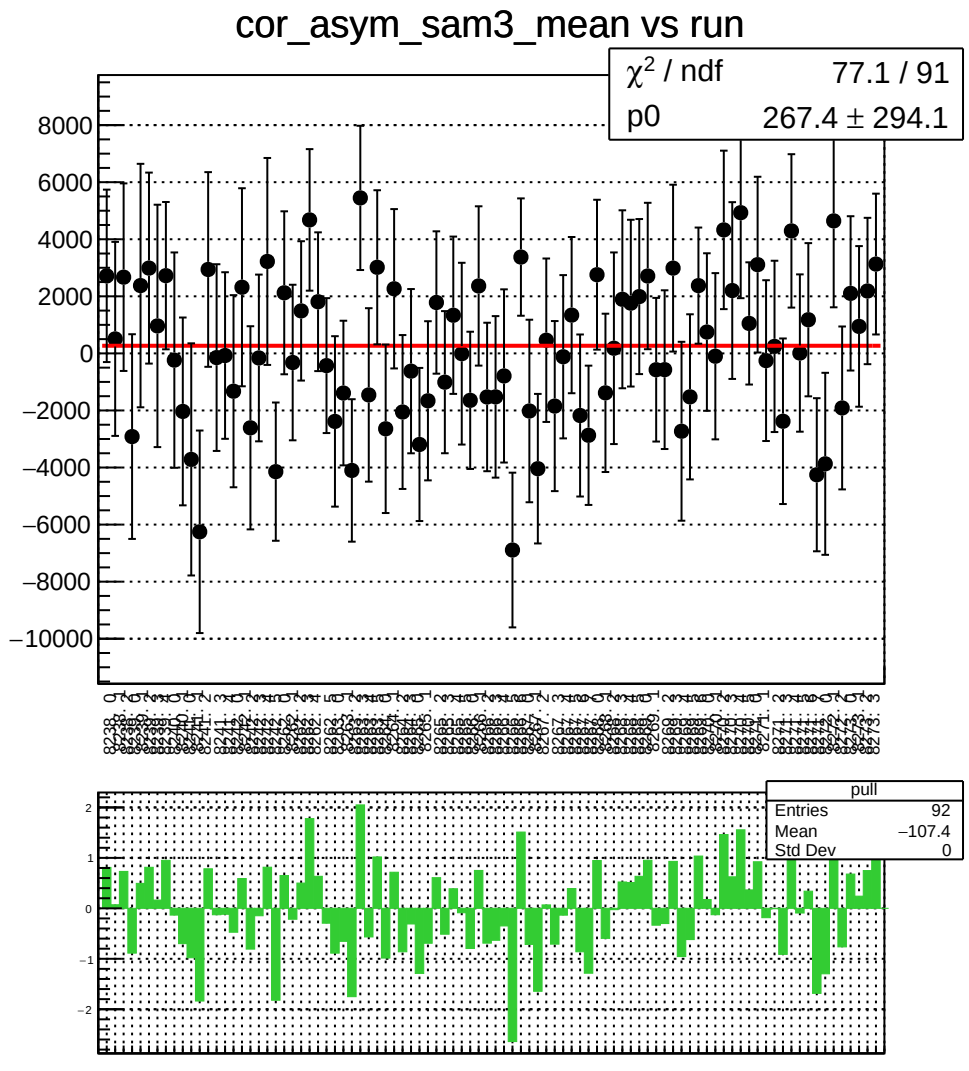

pull1D
Entries 92
Mean −0.01574
Std Dev 0.9153
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

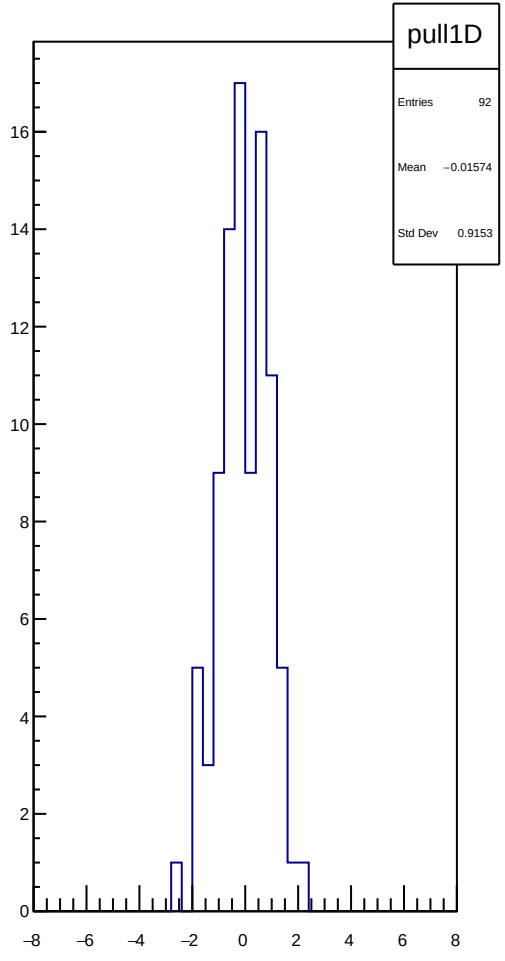

reg_asym_sam3_rms vs run
χ² / ndf 2.743e+04 / 91
p0 275.5 ± 0.2079
450
400
350
300
250

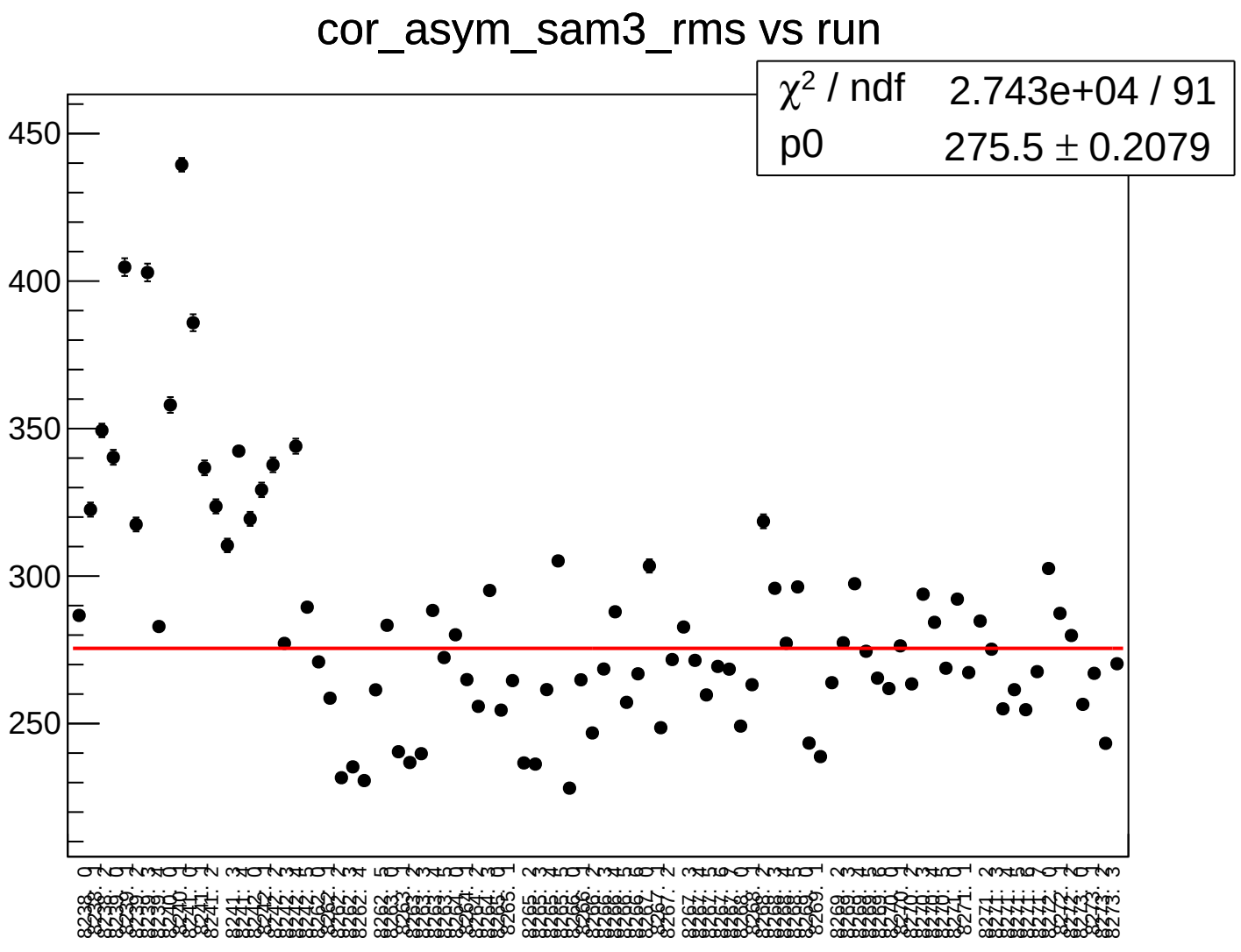

asym_sam3_reg_correction_mean vs run
×10^3
χ² / ndf 67.84 / 91
p0 −1.118e+04 ± 3370
pull
Entries 92
Mean −1291
Std Dev 0

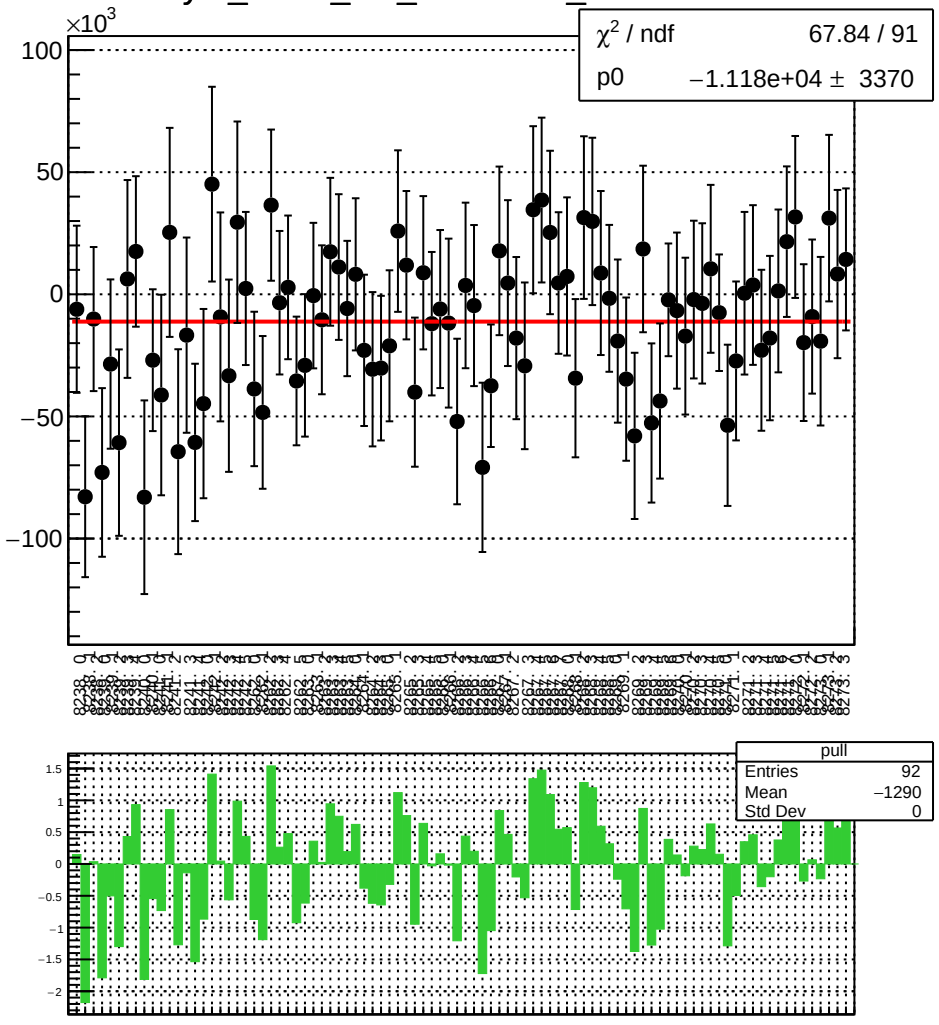

pull1D
Entries 92
Mean −0.004324
Std Dev 0.8587

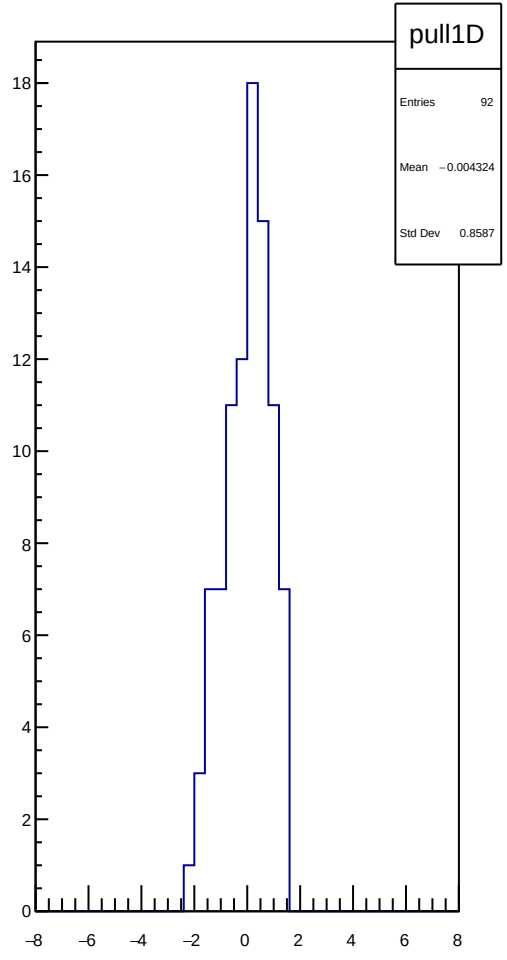

asym_sam3_reg_correction_rms vs run
χ² / ndf 1.408e+04 / 91
p0 3169 ± 2.383
4200
4000
3800
3600
3400
3200
3000
2800

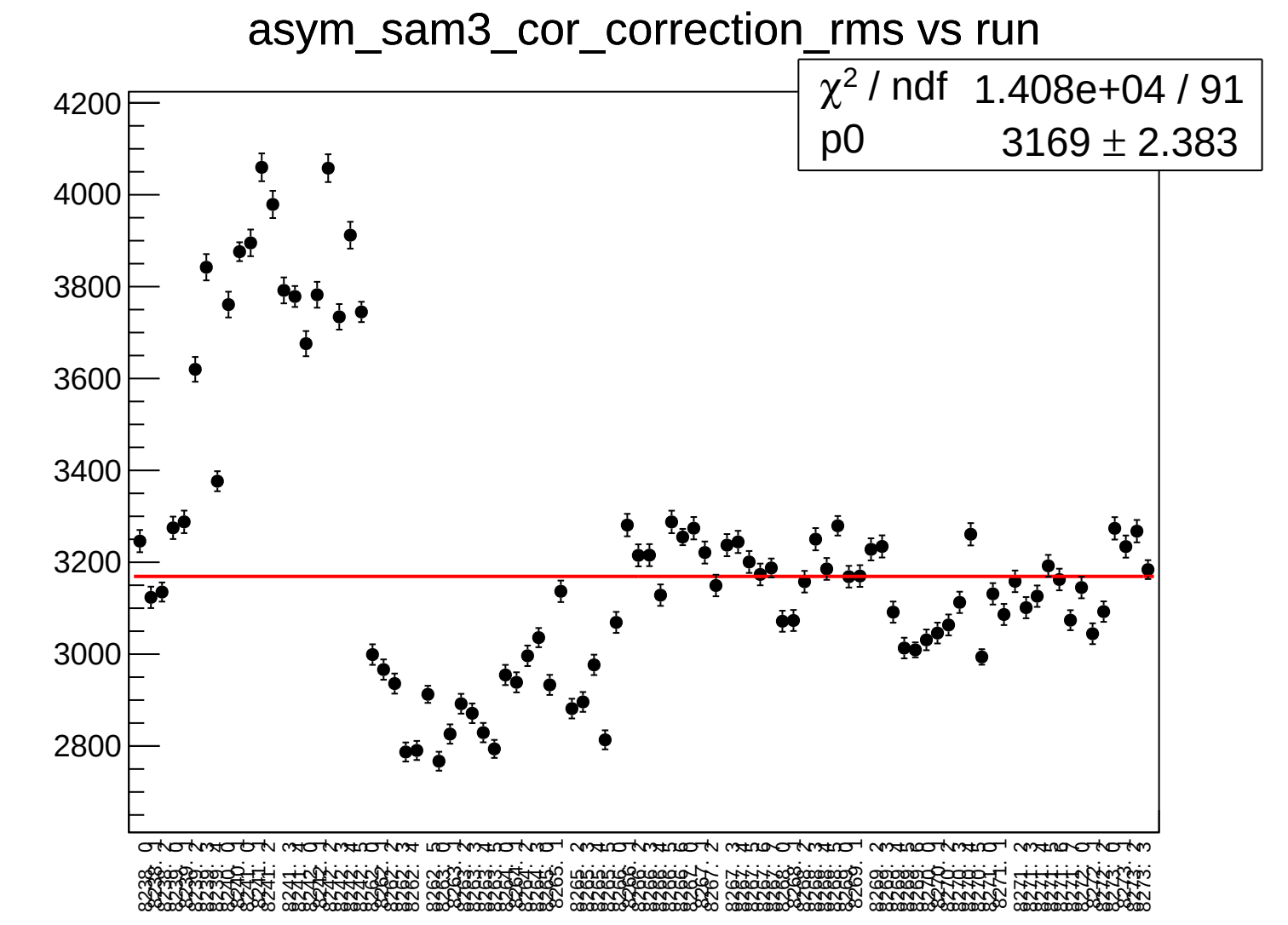

cor_asym_sam3_mean vs run
χ² / ndf 77.1 / 91
p0 267.4 ± 294.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 92
Mean −107.4
Std Dev 0
2
1
0
−1
−2

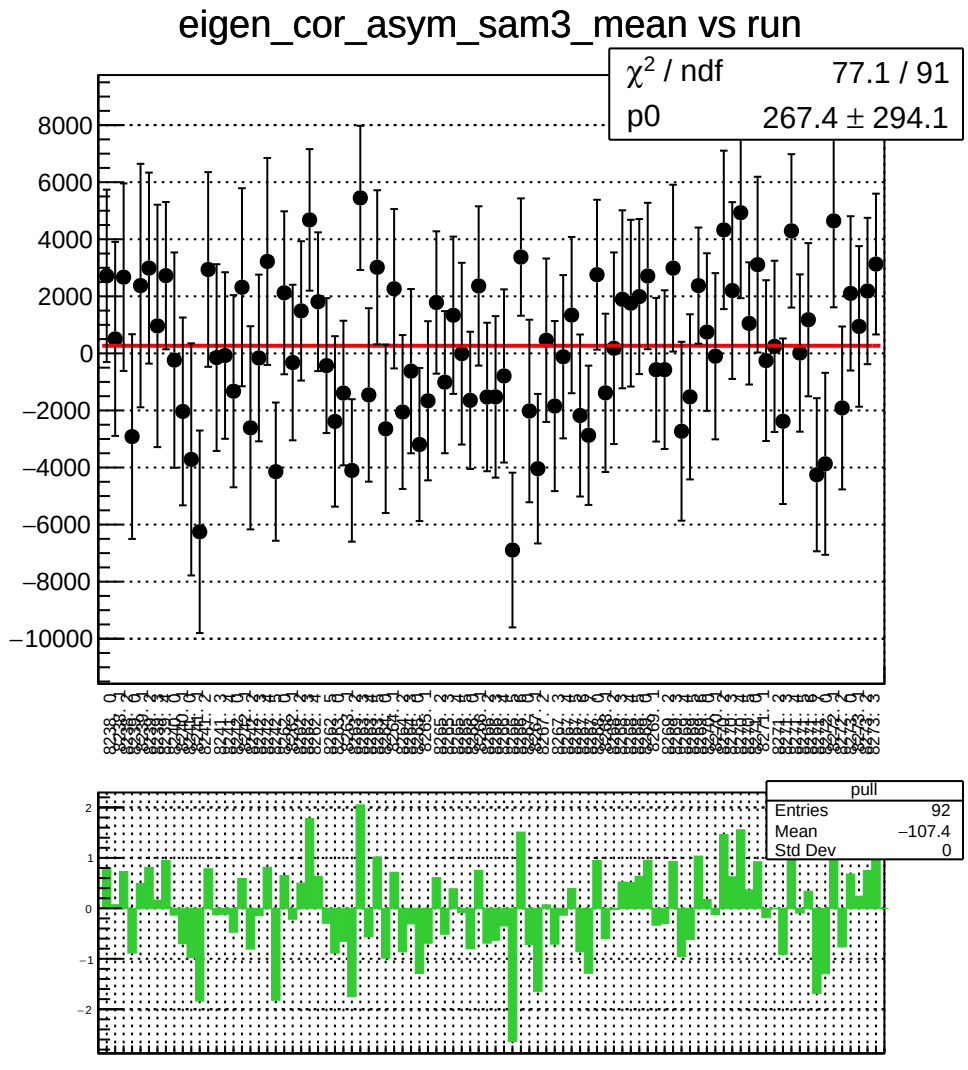

pull1D
Entries 92
Mean −0.01574
Std Dev 0.9153
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

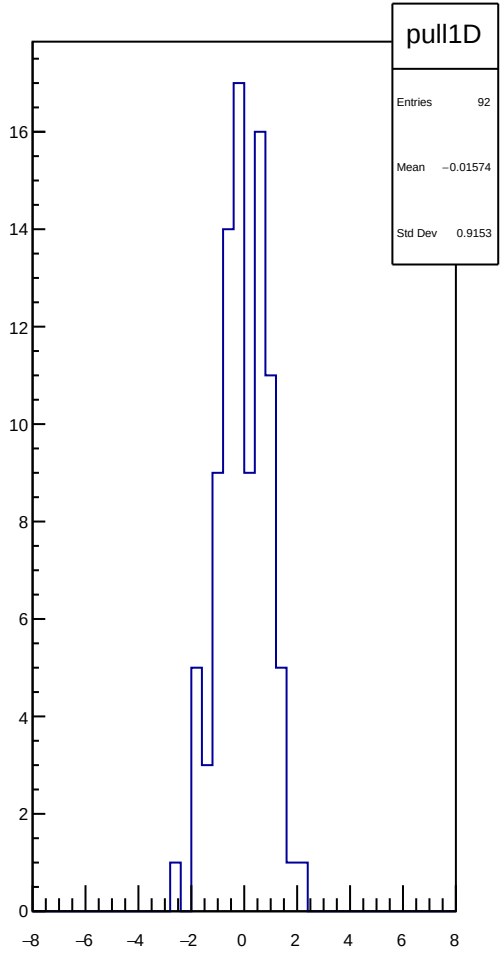

cor_asym_sam3_rms vs run
$\chi^2$ / ndf 2.743e+04 / 91
p0 275.5 ± 0.2079
450
400
350
300
250

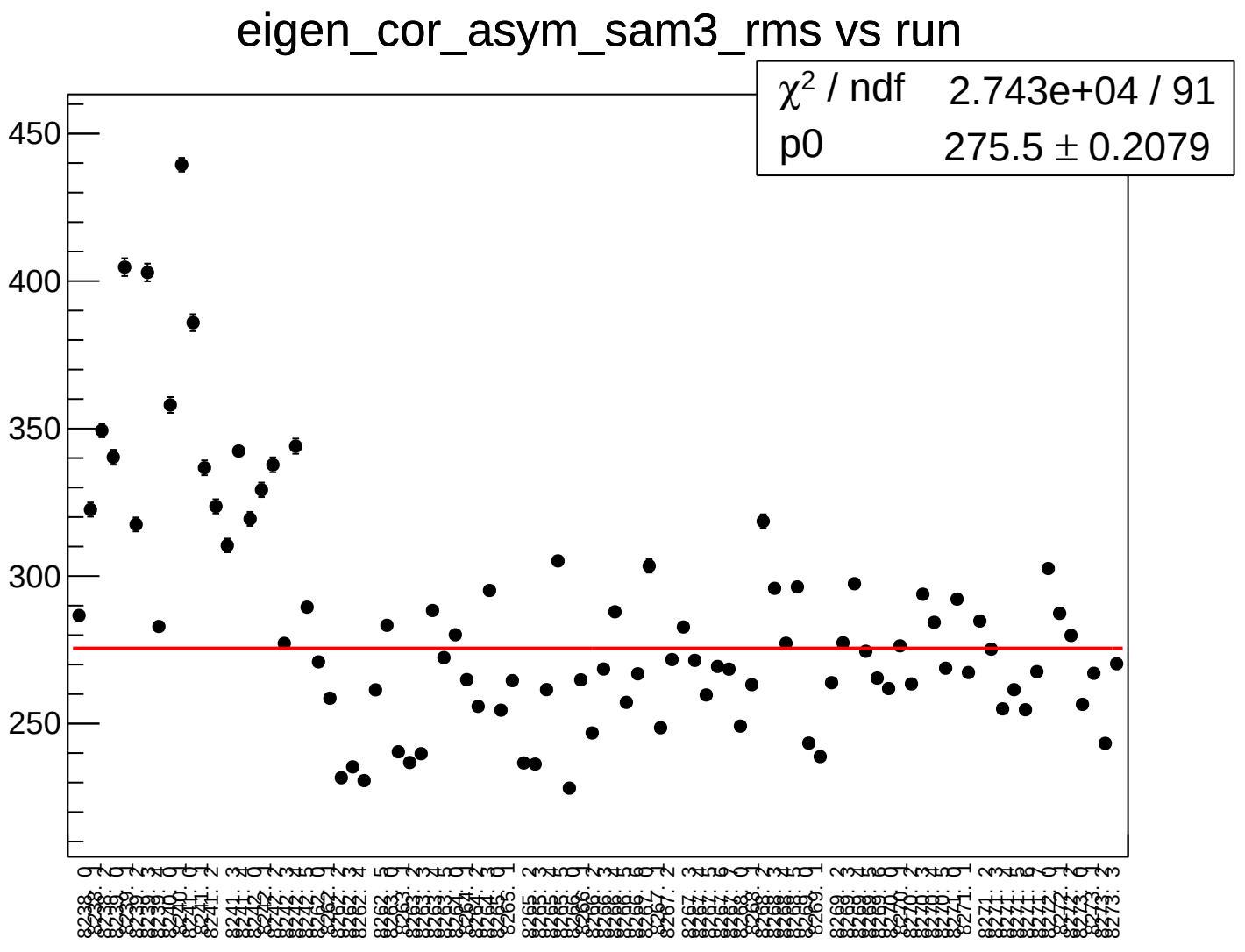

asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 67.84 / 91
p0 −1.118e+04 ± 3370
pull
Entries 92
Mean −1290
Std Dev 0

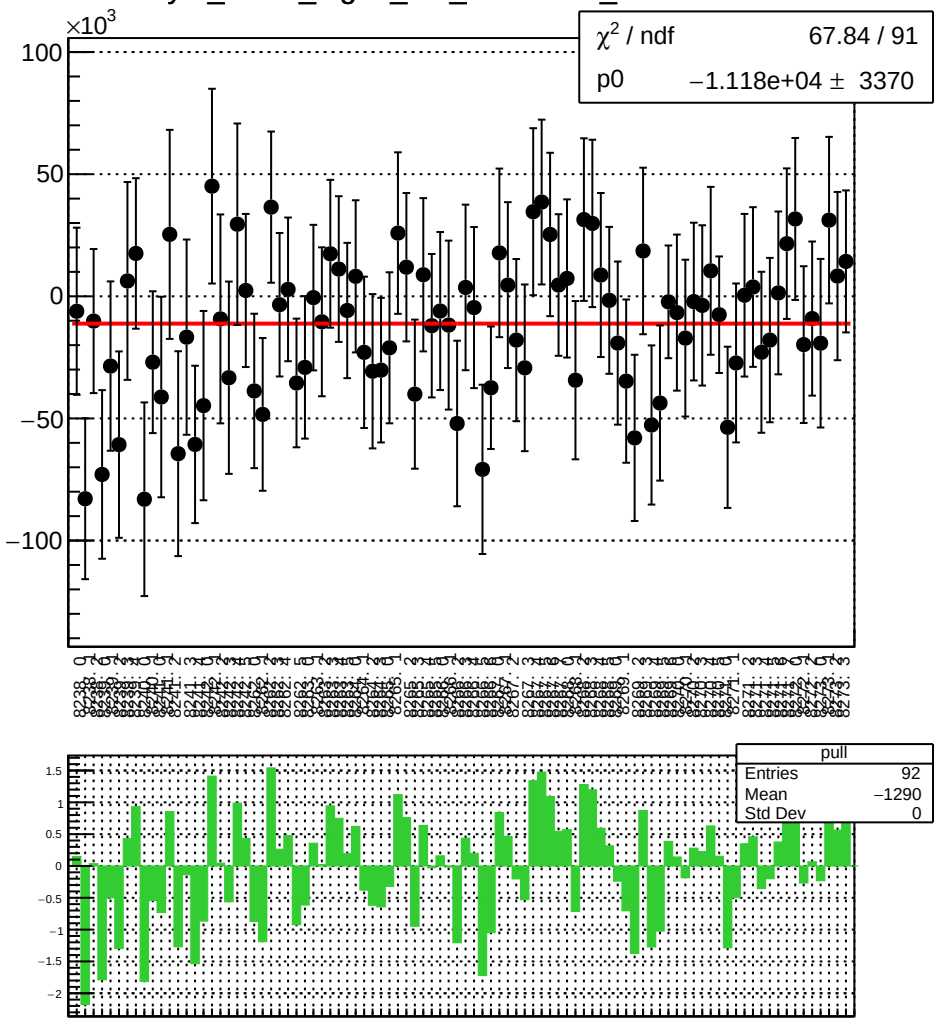

pull1D
Entries 92
Mean −0.004324
Std Dev 0.8587

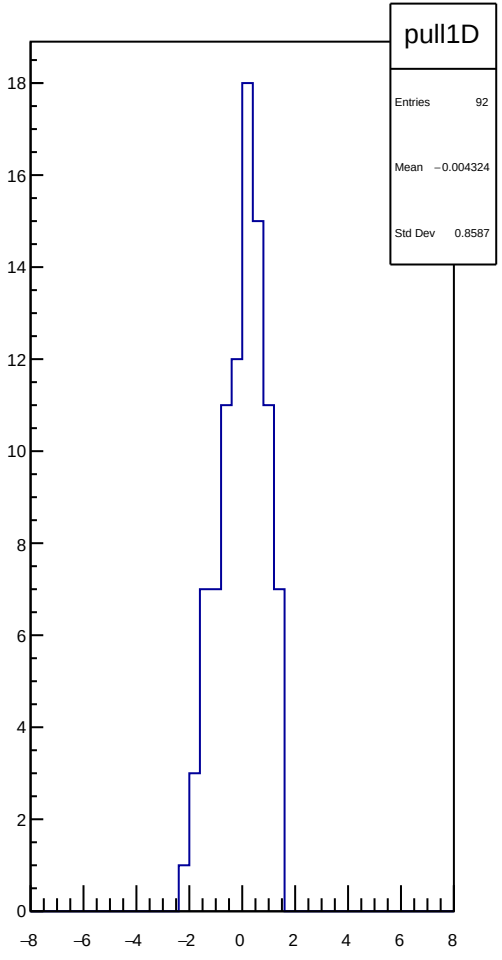

asym_sam3_cor_correction_rms vs run
$\chi^2$ / ndf 1.408e+04 / 91
p0 3169 ± 2.383
4200
4000
3800
3600
3400
3200
3000
2800

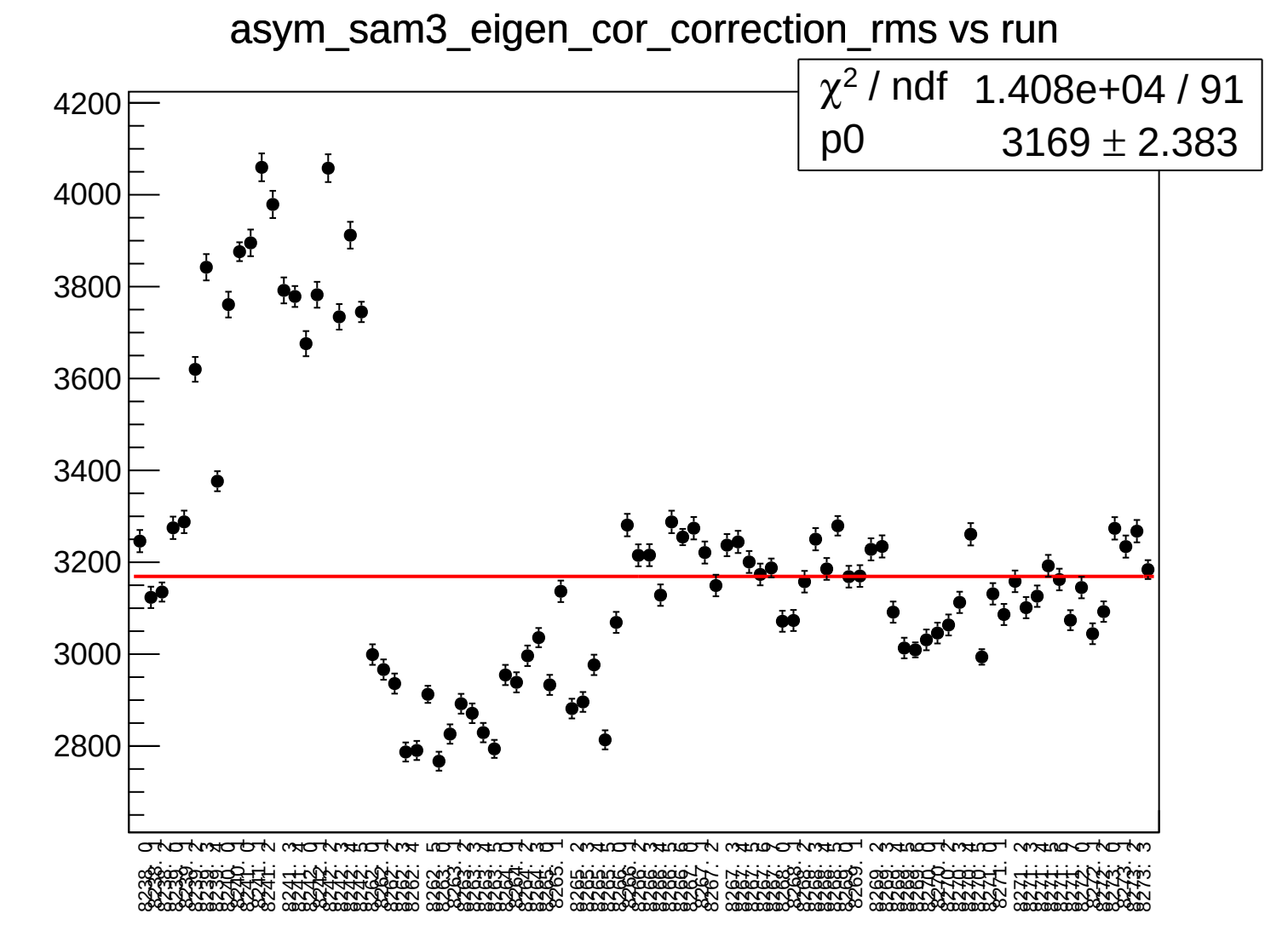

eigen_cor_asym_sam3_mean vs run
χ² / ndf 77.1 / 91
p0 267.4 ± 294.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 92
Mean −107.4
Std Dev 0
2
1
0
−1
−2

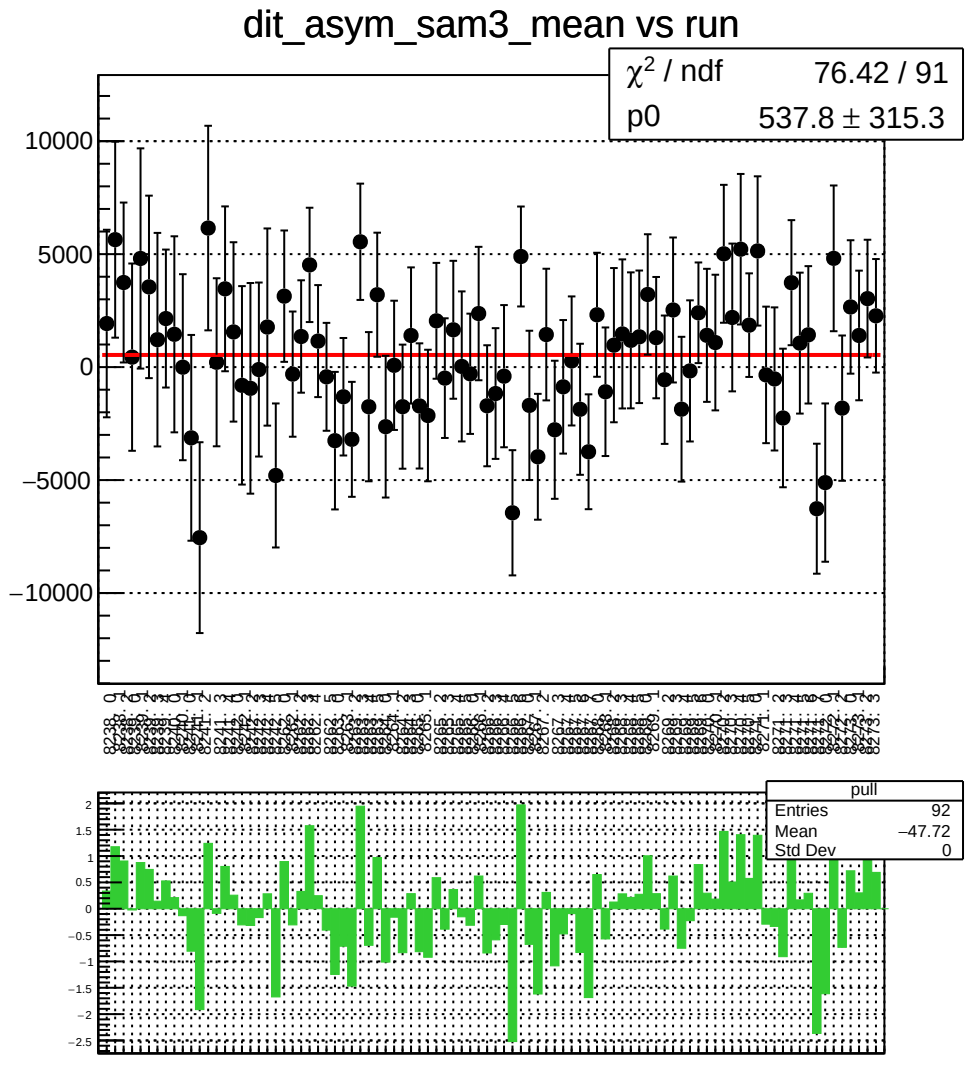

pull1D
Entries 92
Mean −0.01574
Std Dev 0.9153
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

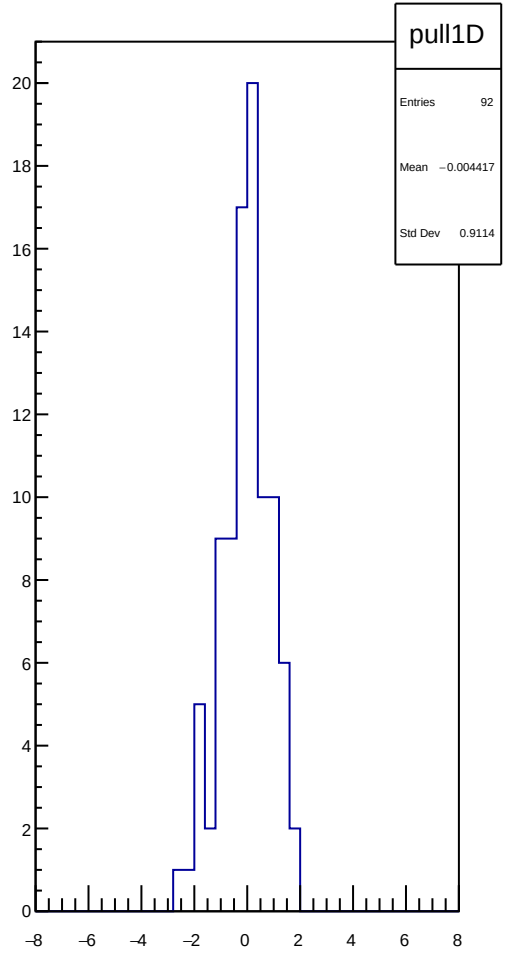

eigen_cor_asym_sam3_rms vs run
$\chi^2$ / ndf 2.743e+04 / 91
p0 275.5 ± 0.2079
450
400
350
300
250

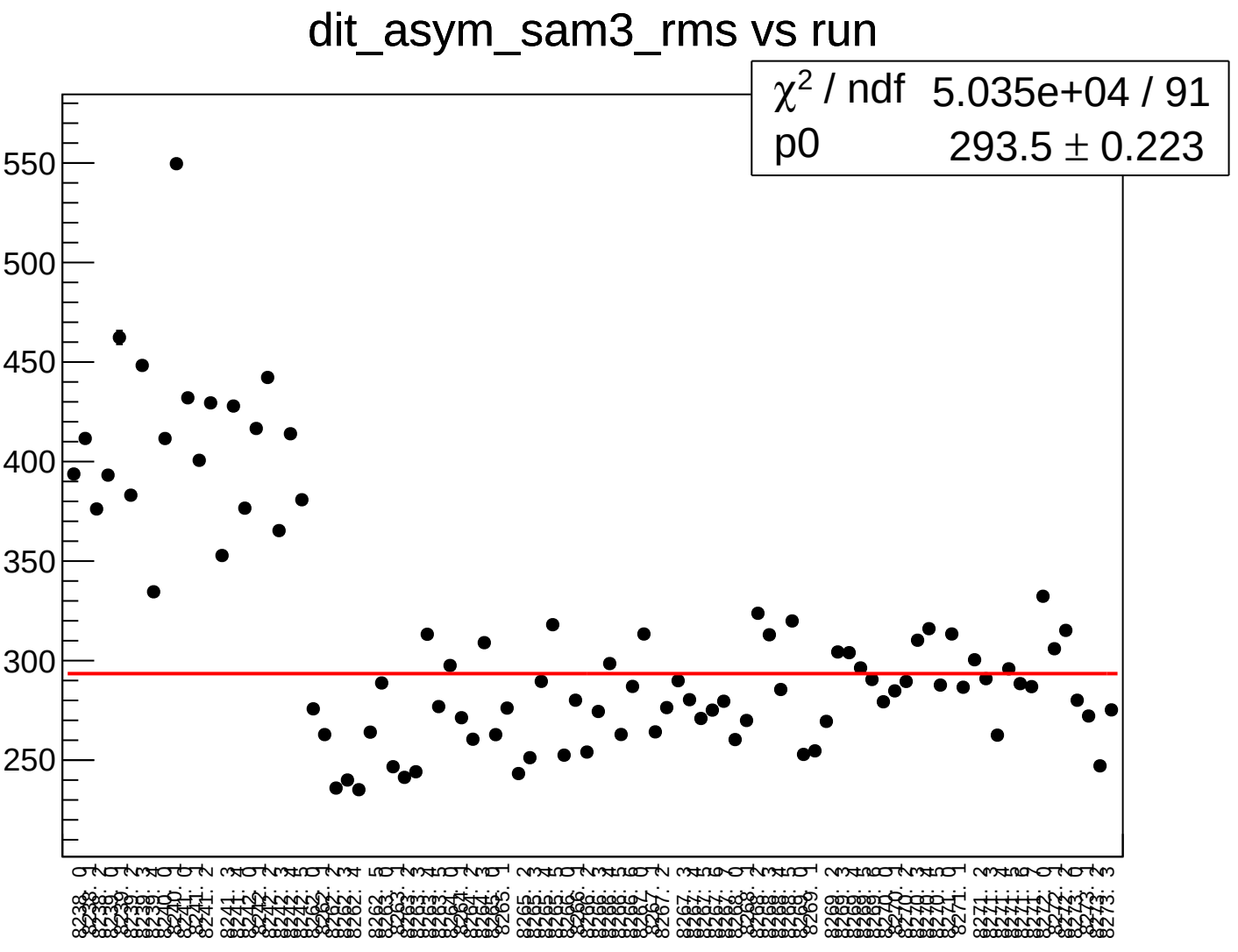

asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.84 / 91
p0 −1.118e+04 ± 3370
pull
Entries 92
Mean −1290
Std Dev 0

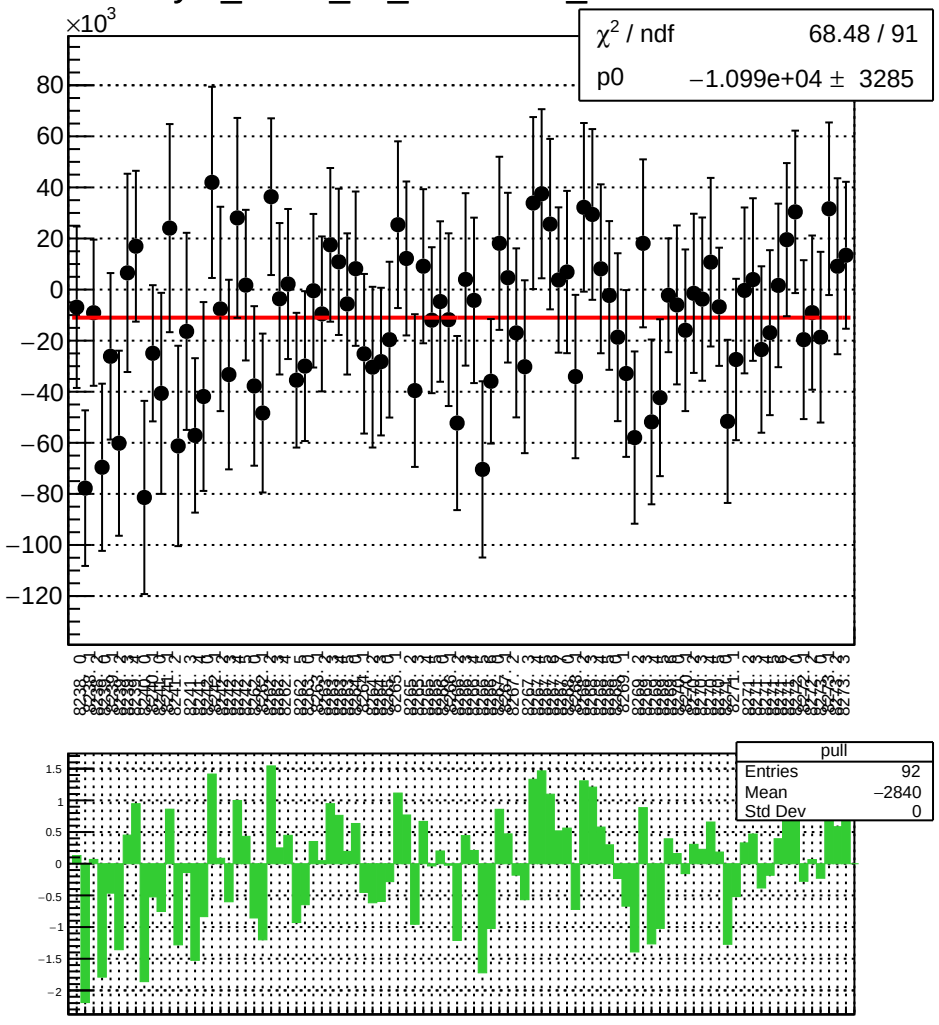

pull1D
Entries 92
Mean −0.004324
Std Dev 0.8587

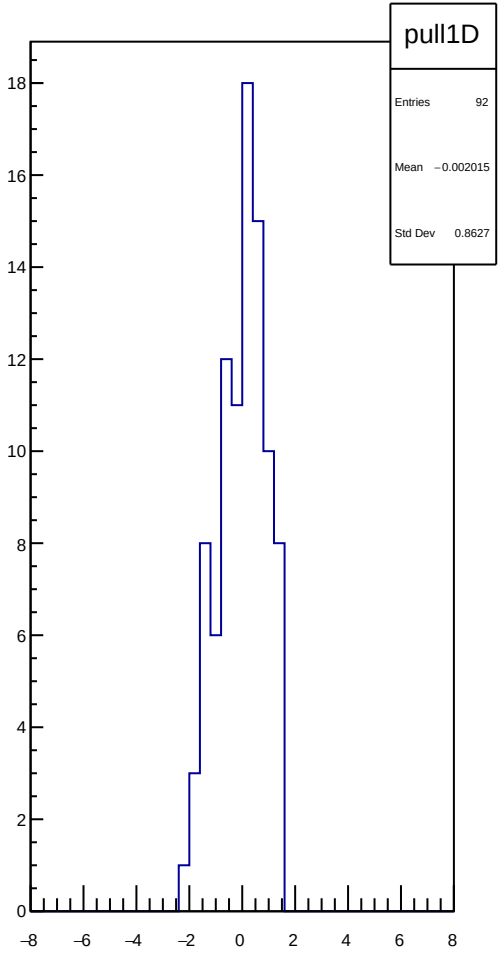

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 1.408e+04 / 91
p0 3169 ± 2.383
4200
4000
3800
3600
3400
3200
3000
2800

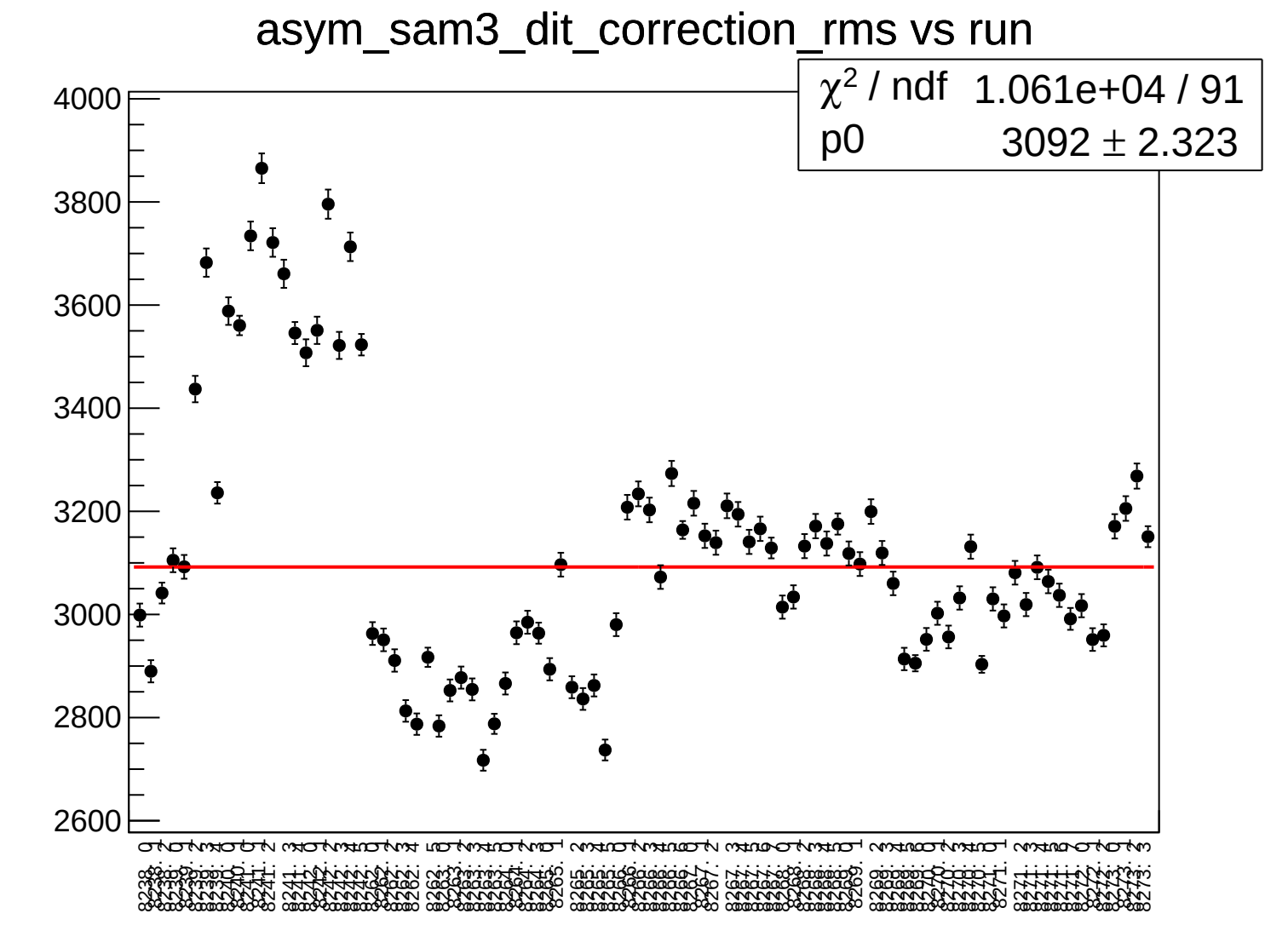

dit_asym_sam3_mean vs run
χ² / ndf 76.42 / 91
p0 537.8 ± 315.3
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −47.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

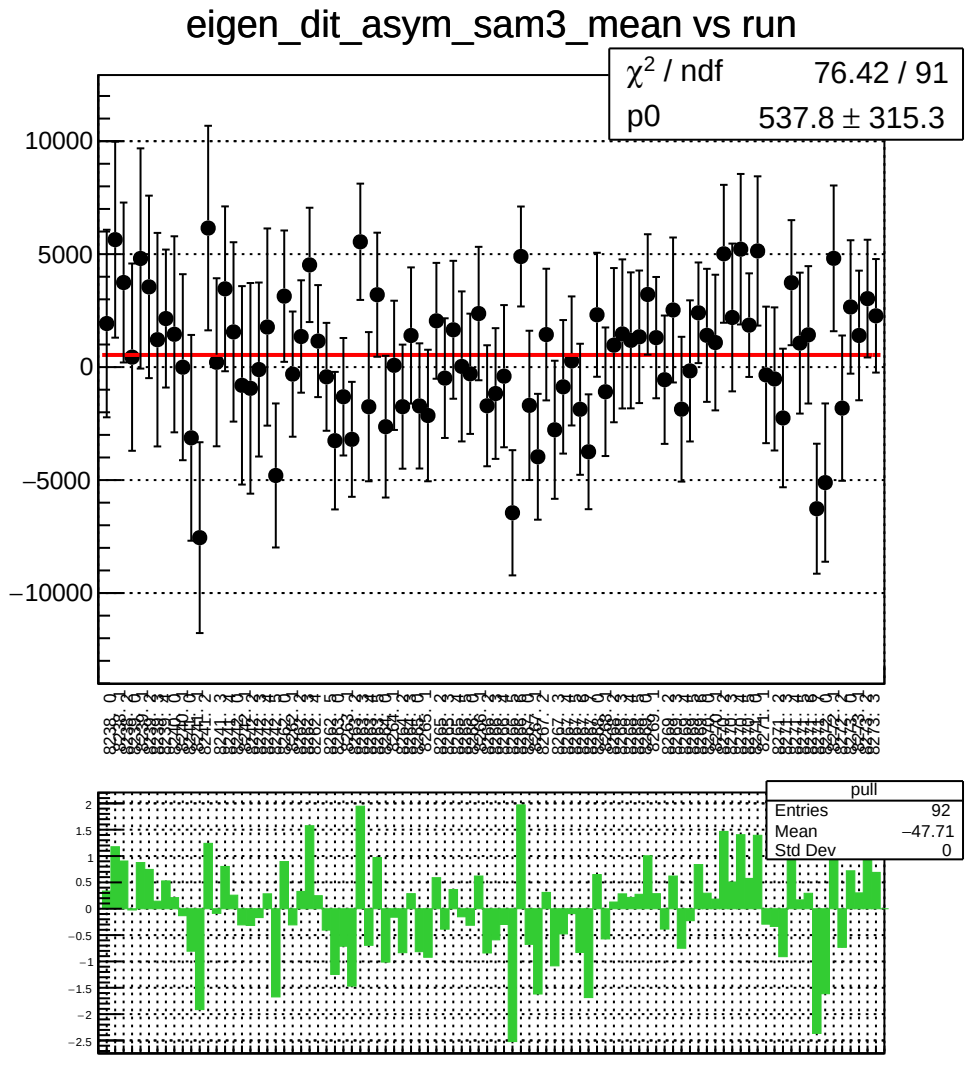

pull1D
Entries 92
Mean −0.004417
Std Dev 0.9114
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

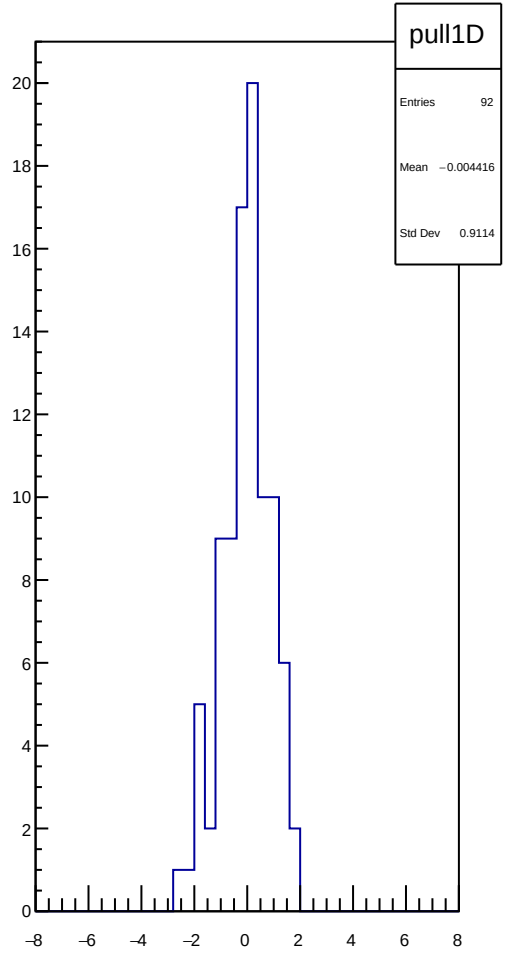

dit_asym_sam3_rms vs run
$\chi^2$ / ndf 5.035e+04 / 91
p0 293.5 ± 0.223
550
500
450
400
350
300
250

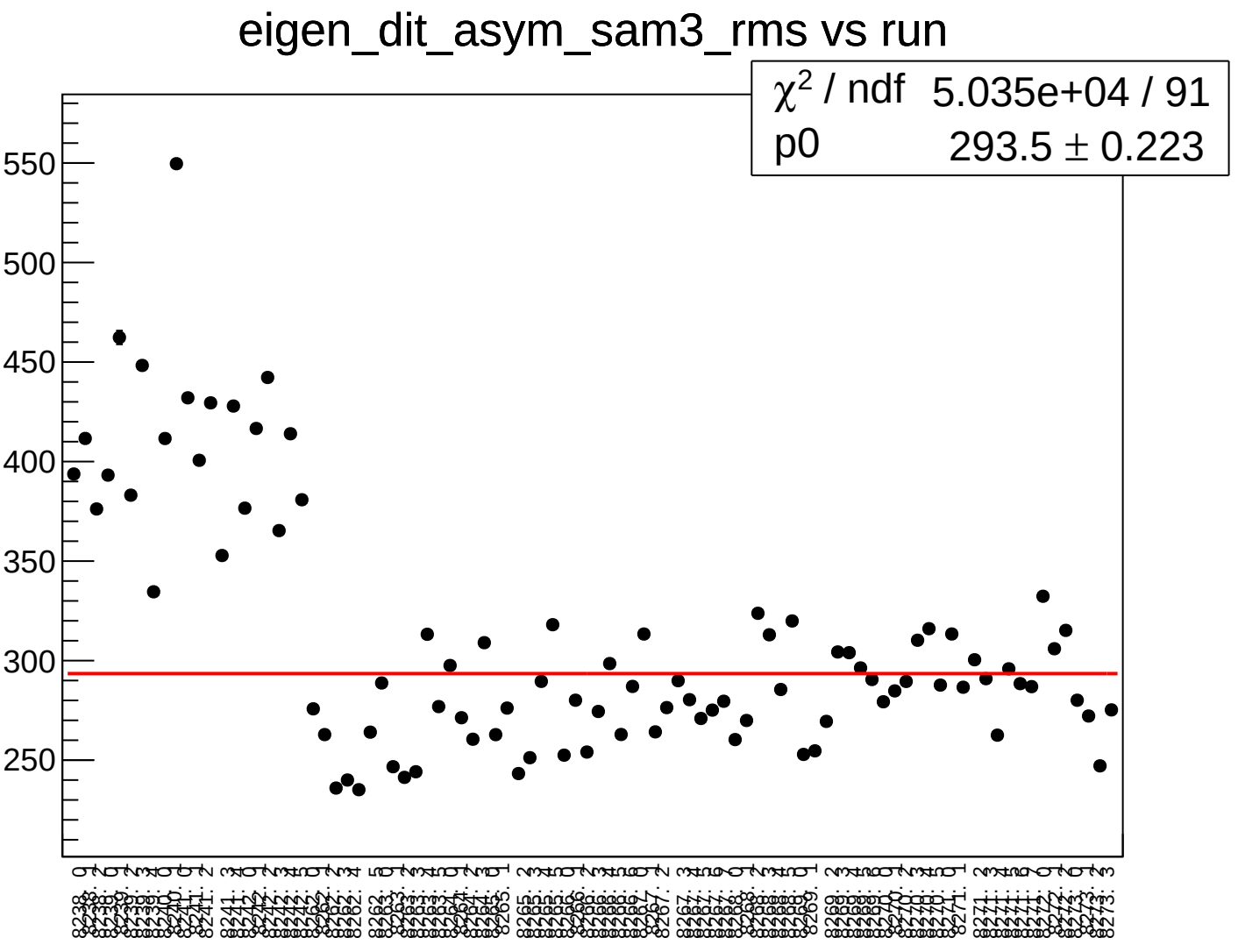

asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 68.48 / 91
p0 −1.099e+04 ± 3285
pull
Entries 92
Mean −2840
Std Dev 0

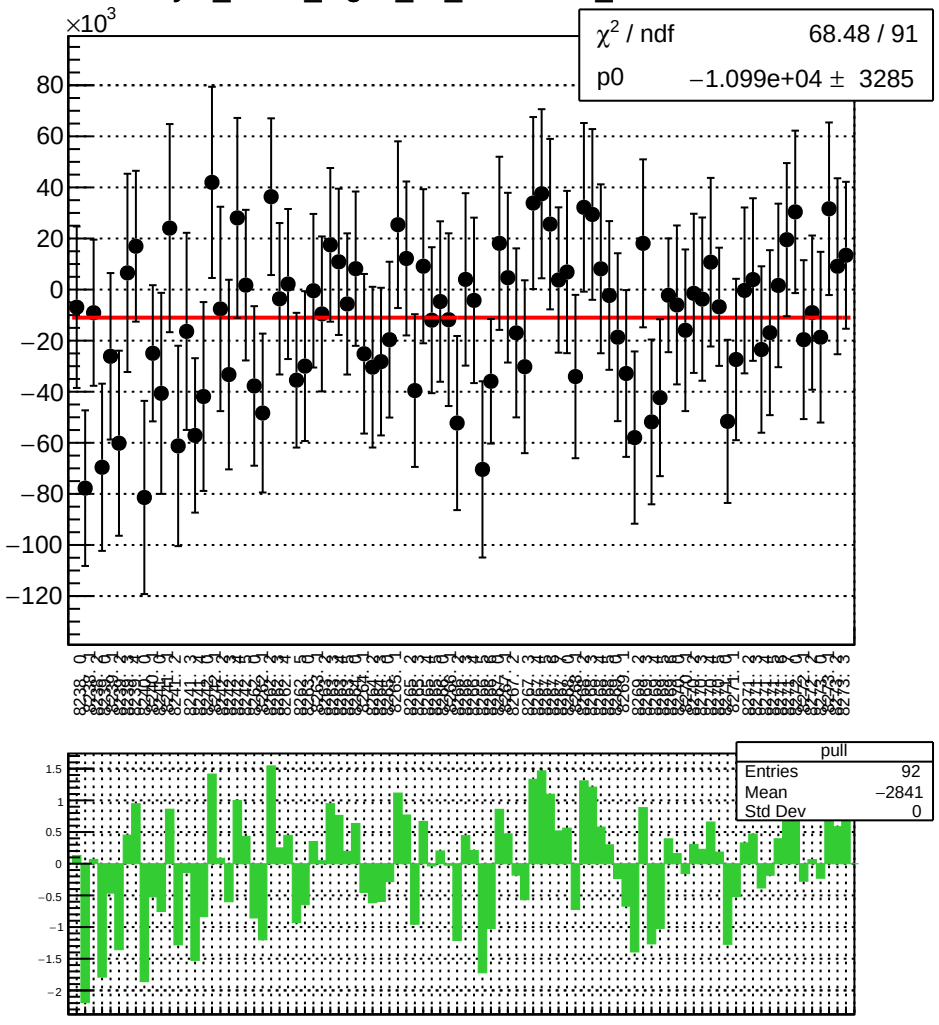

pull1D
Entries 92
Mean −0.002015
Std Dev 0.8627

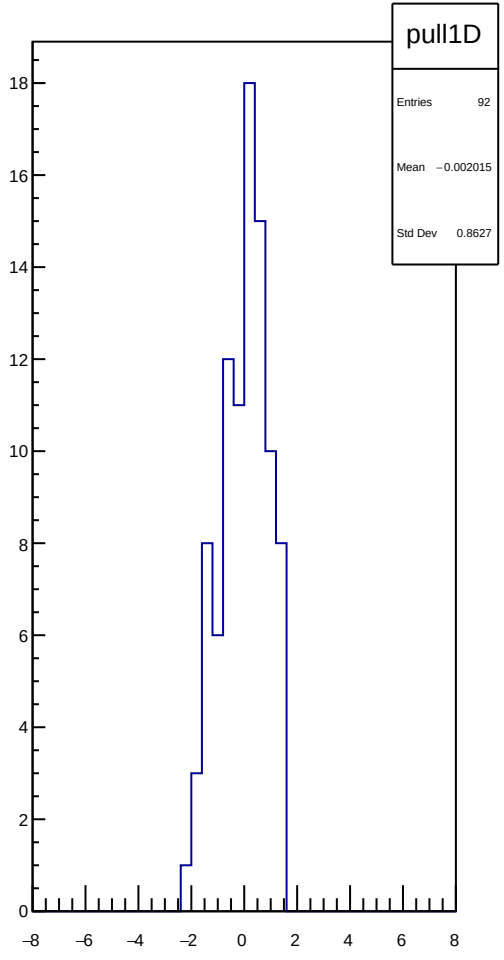

asym_sam3_dit_correction_rms vs run
χ² / ndf 1.061e+04 / 91
p0 3092 ± 2.323
4000
3800
3600
3400
3200
3000
2800
2600

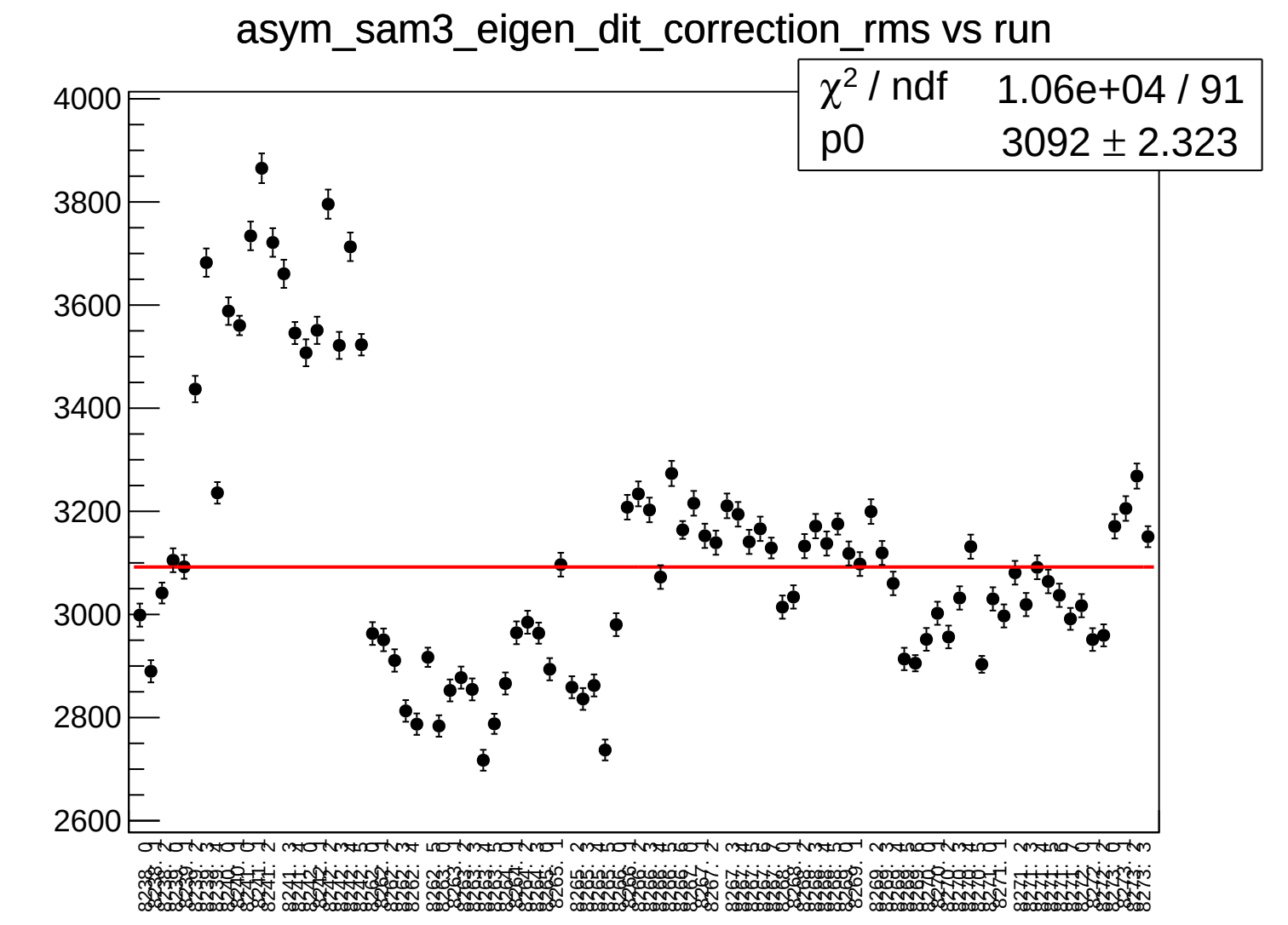

eigen_dit_asym_sam3_mean vs run
χ² / ndf 76.42 / 91
p0 537.8 ± 315.3
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −47.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

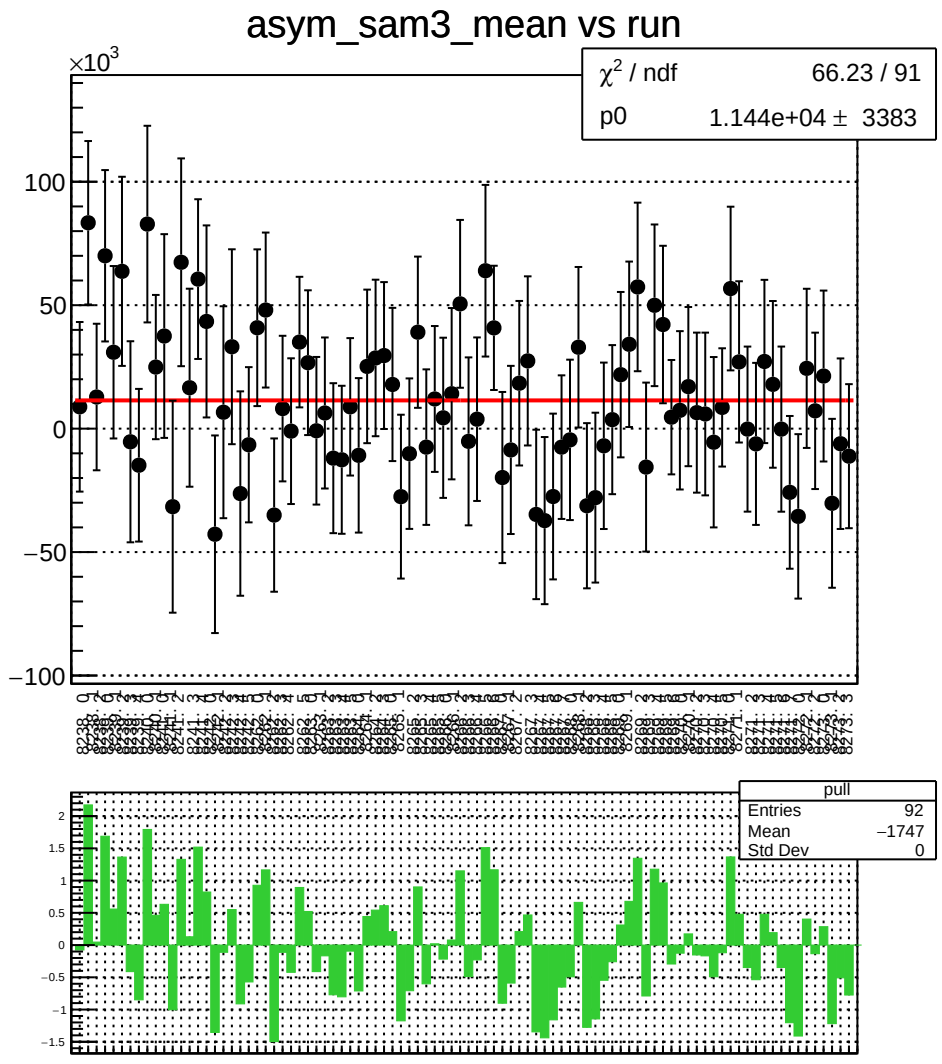

pull1D
Entries 92
Mean −0.004416
Std Dev 0.9114
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

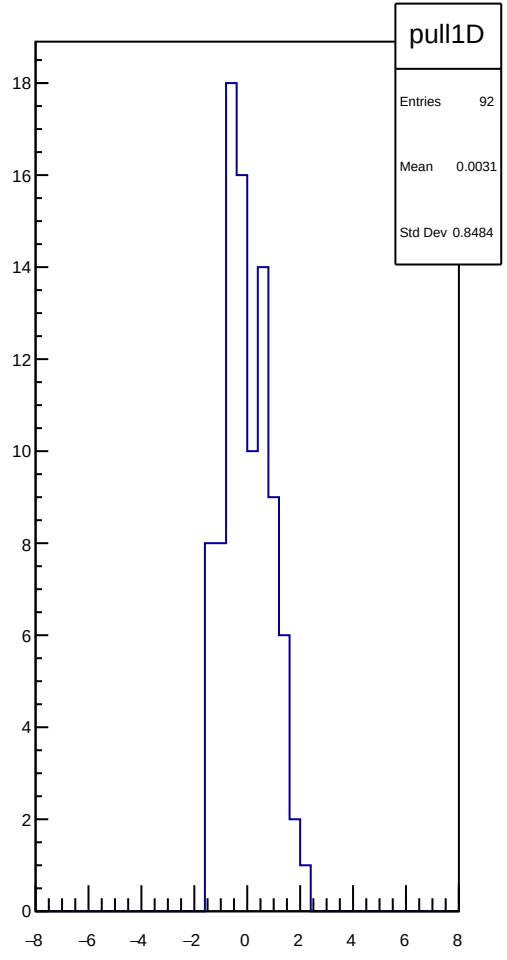

eigen_dit_asym_sam3_rms vs run
$\chi^2$ / ndf 5.035e+04 / 91
p0 293.5 ± 0.223
550
500
450
400
350
300
250

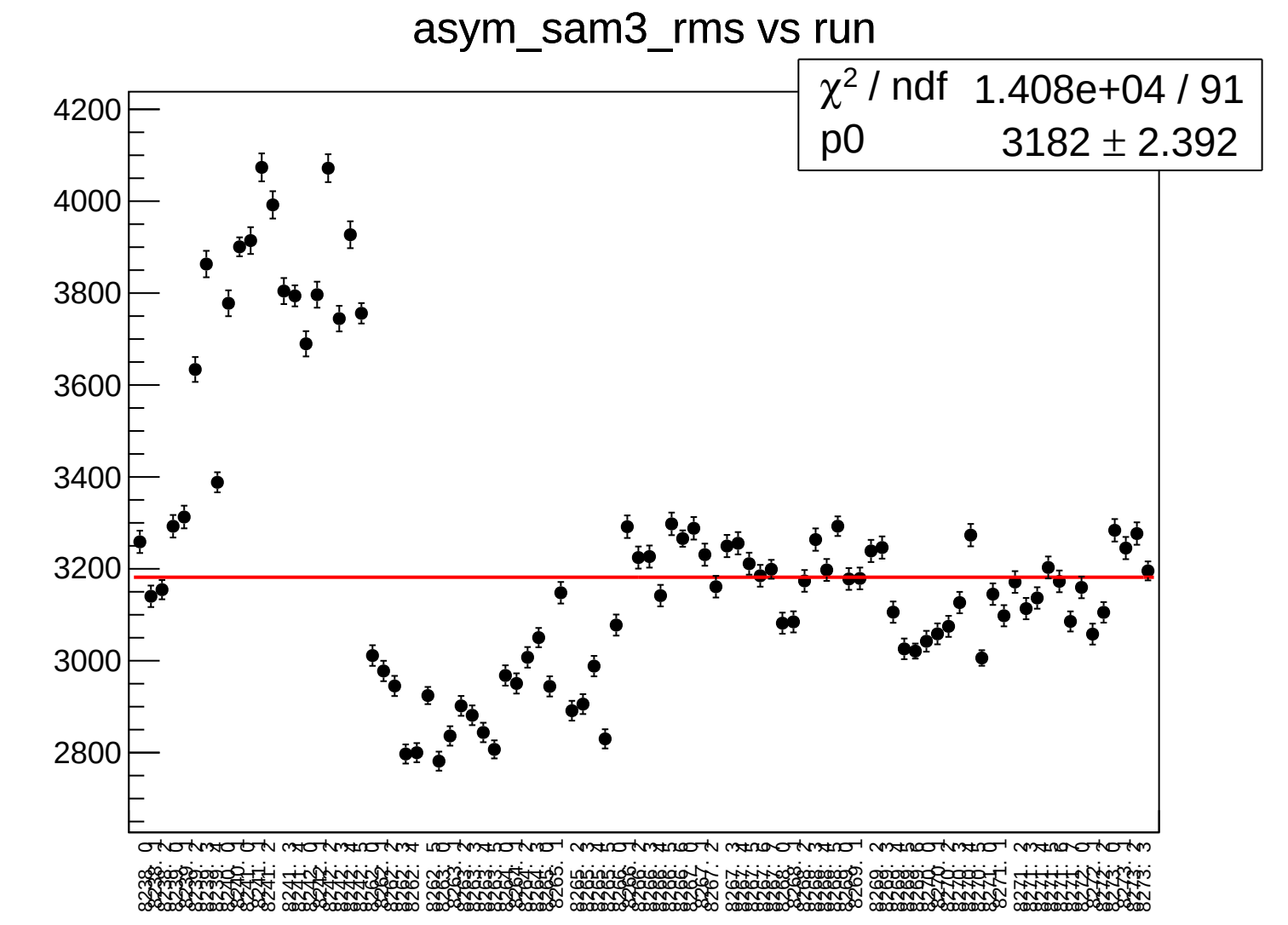

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.48 / 91
p0 −1.099e+04 ± 3285
pull
Entries 92
Mean −2841
Std Dev 0

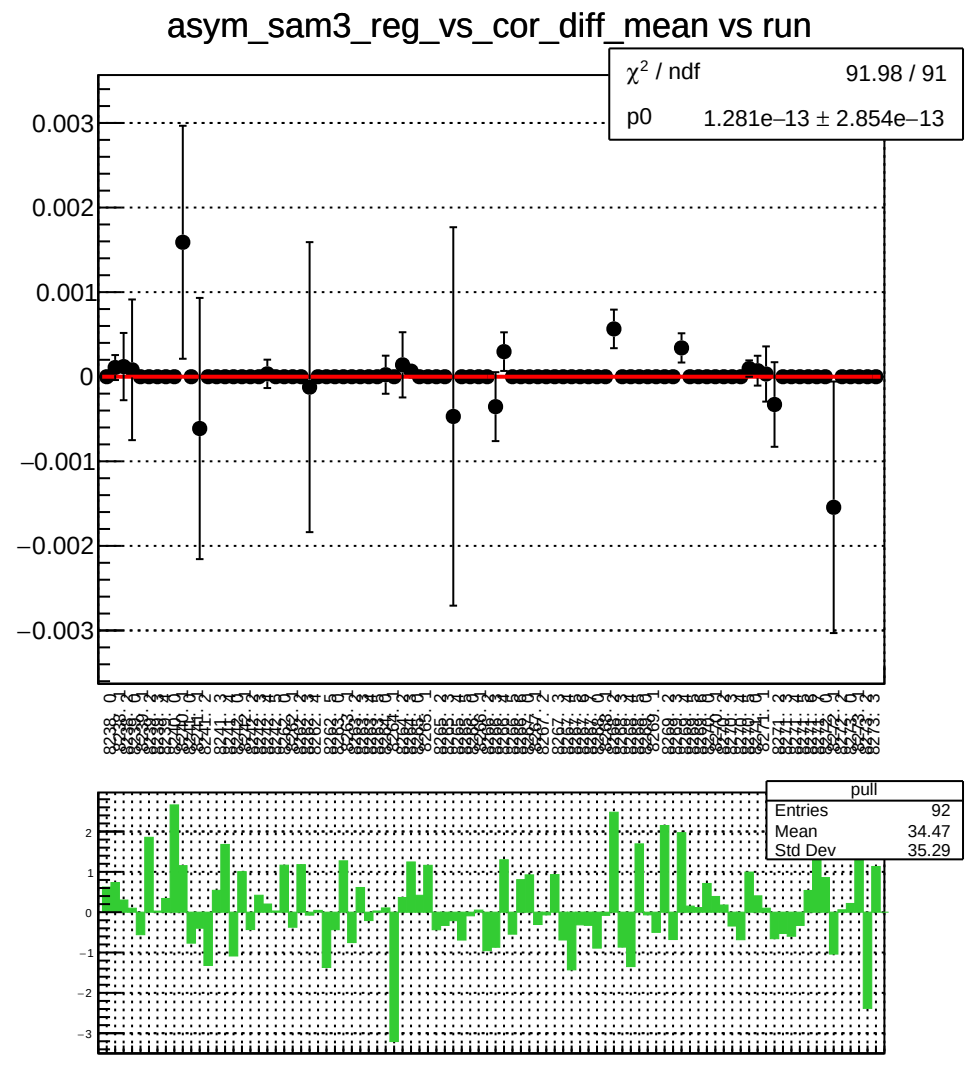

pull1D
Entries 92
Mean −0.002015
Std Dev 0.8627

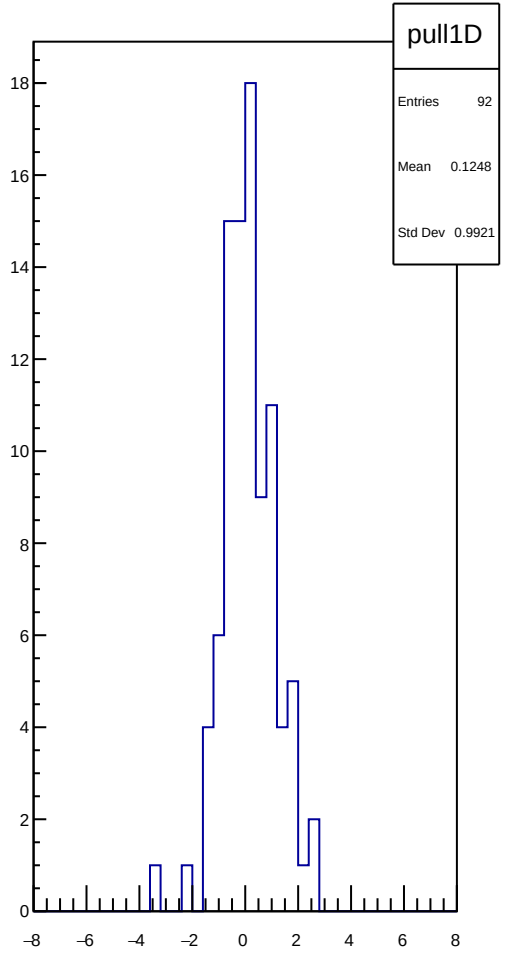

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 1.06e+04 / 91
p0 3092 ± 2.323
4000
3800
3600
3400
3200
3000
2800
2600

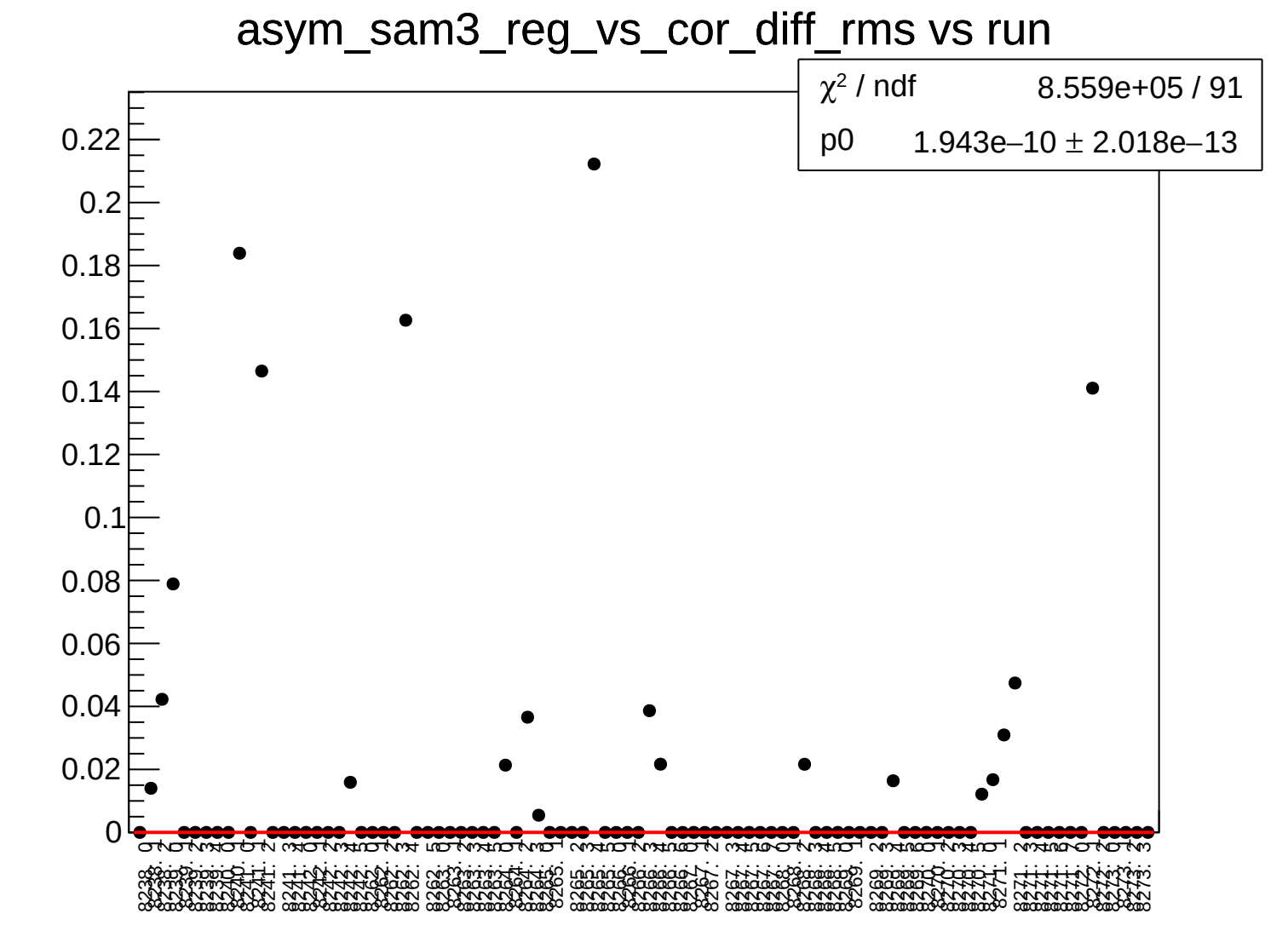

asym_sam3_mean vs run
×10^3
χ² / ndf 66.23 / 91
p0 1.144e+04 ± 3383
100
50
0
−50
−100
pull
Entries 92
Mean −1747
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

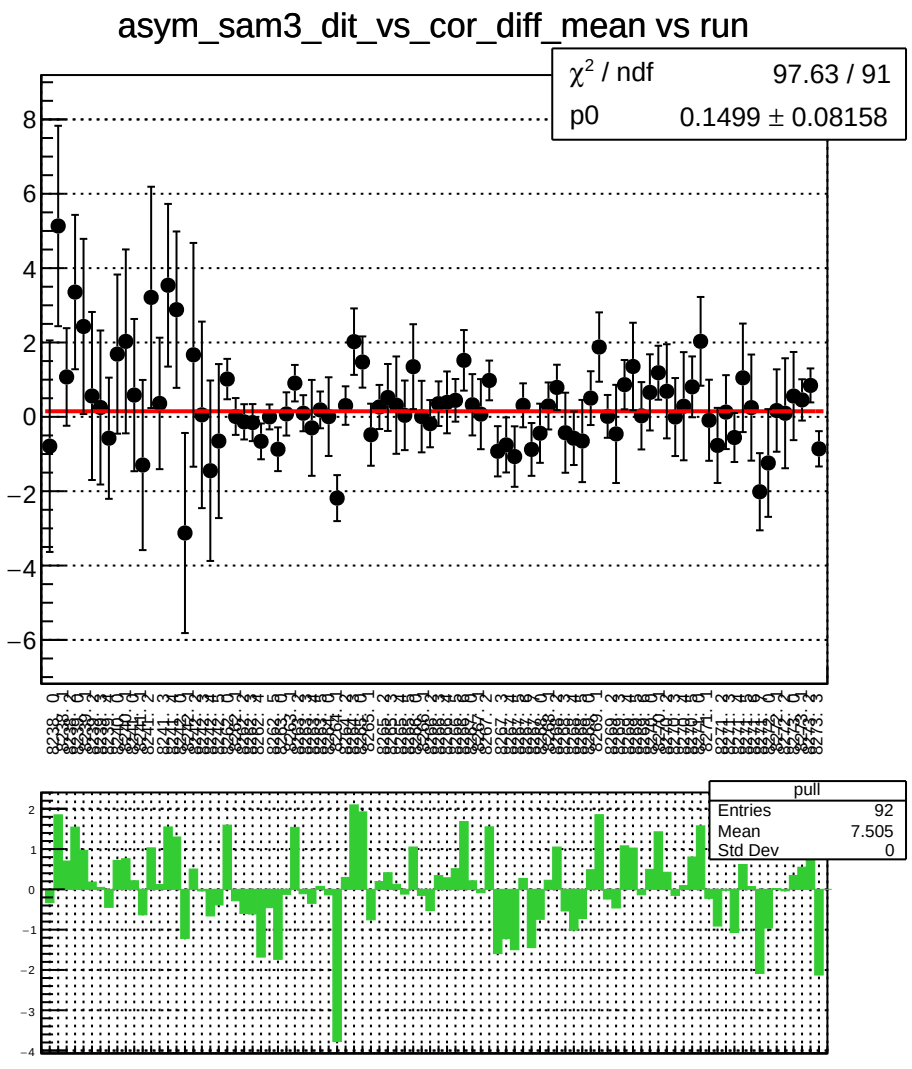

pull1D
Entries 92
Mean 0.0031
Std Dev 0.8484
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

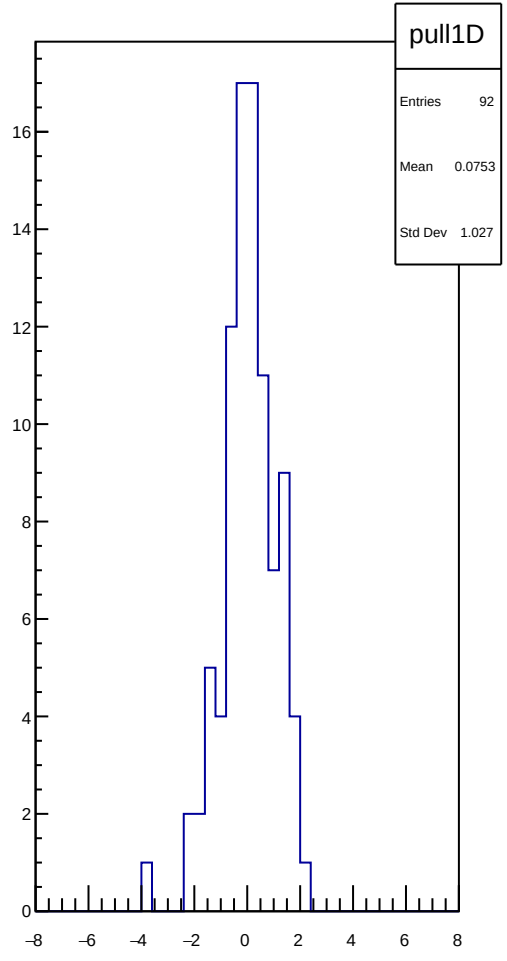

asym_sam3_rms vs run
$\chi^2$ / ndf 1.408e+04 / 91
p0 3182 ± 2.392
4200
4000
3800
3600
3400
3200
3000
2800

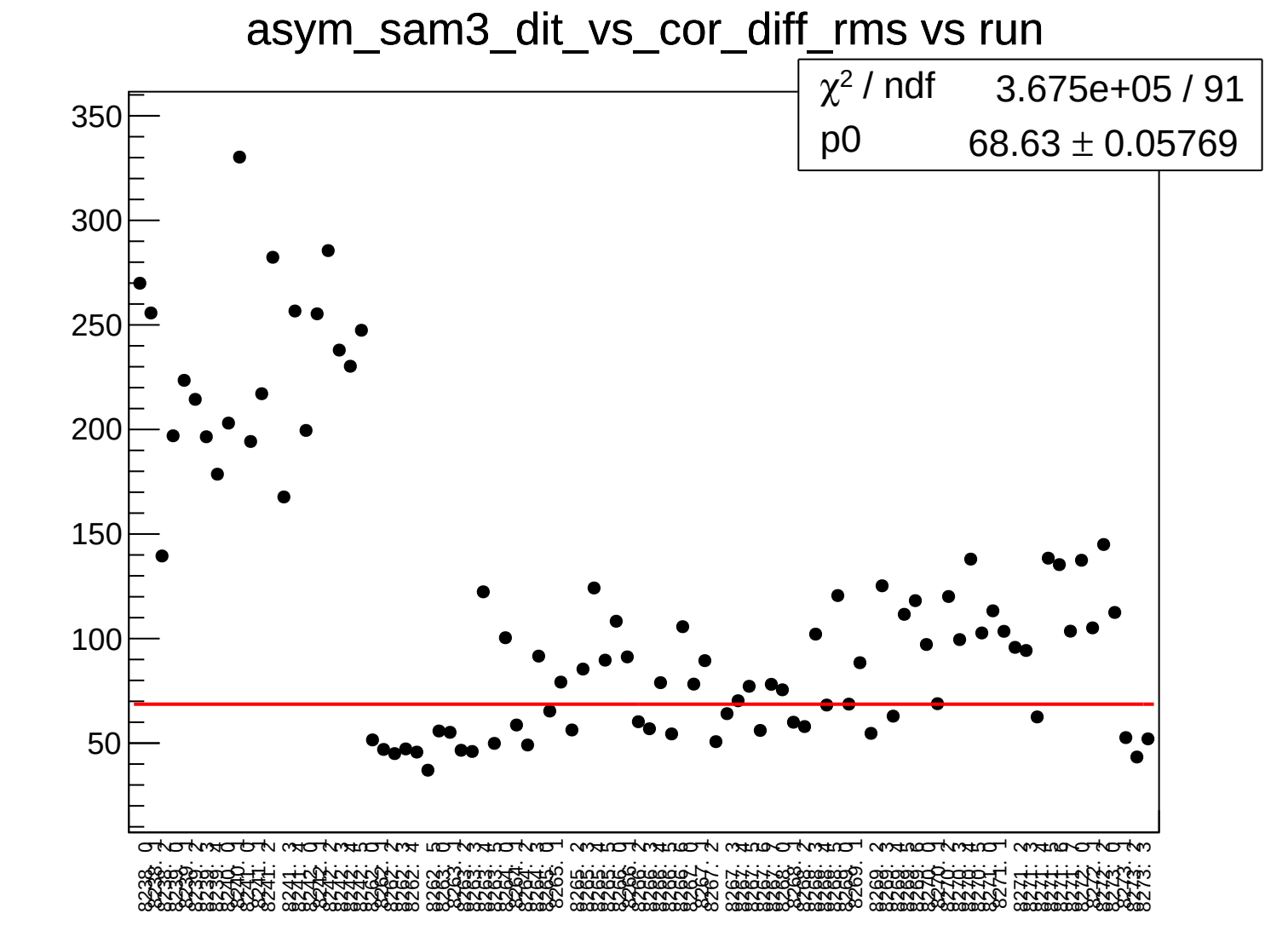

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 91.98 / 91
p0 1.281e−13 ± 2.854e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 92
Mean 34.47
Std Dev 35.29
2
1
0
−1
−2
−3

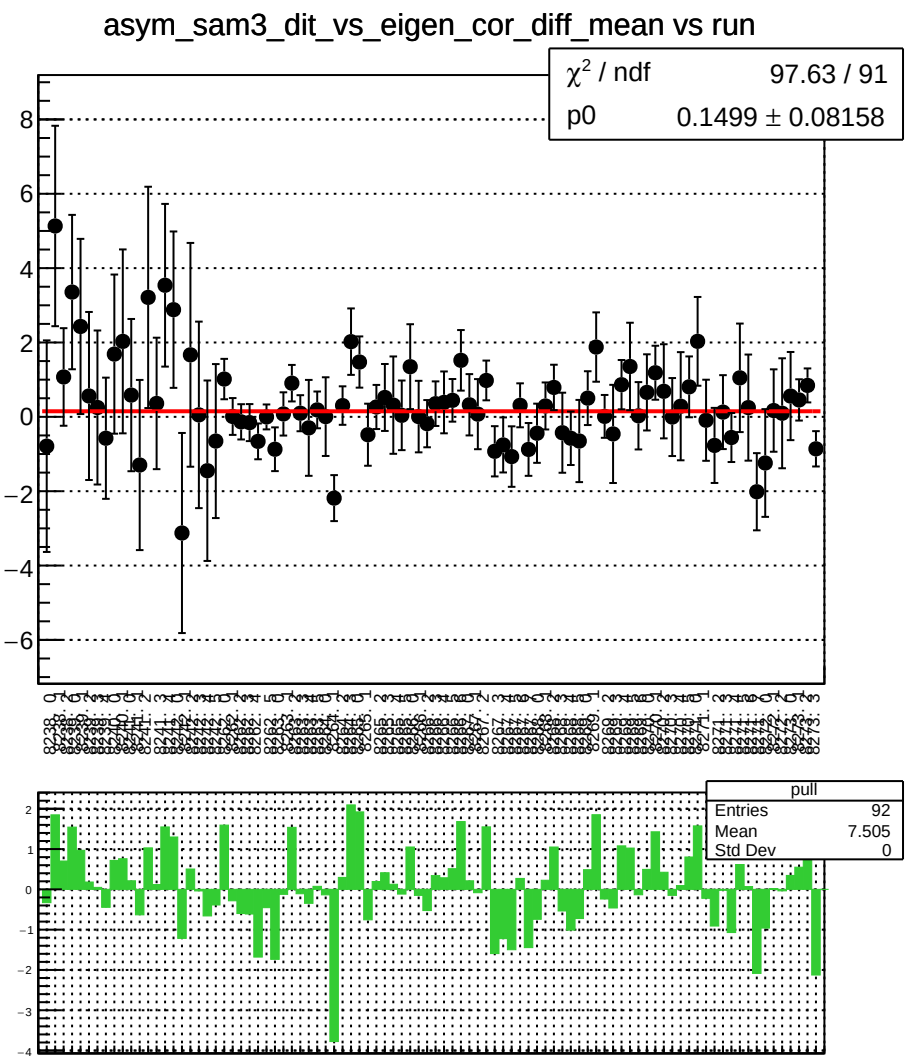

pull1D
Entries 92
Mean 0.1248
Std Dev 0.9921
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

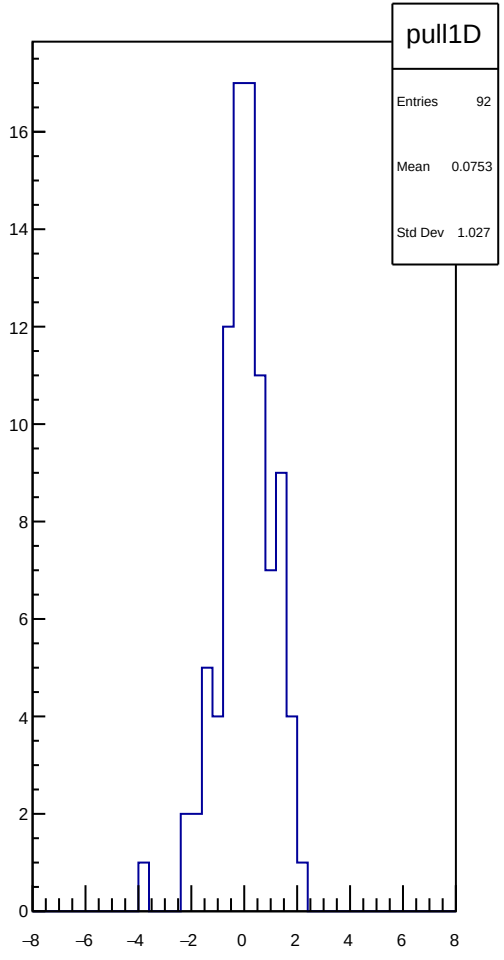

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 8.559e+05 / 91
p0 1.943e−10 ± 2.018e−13
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

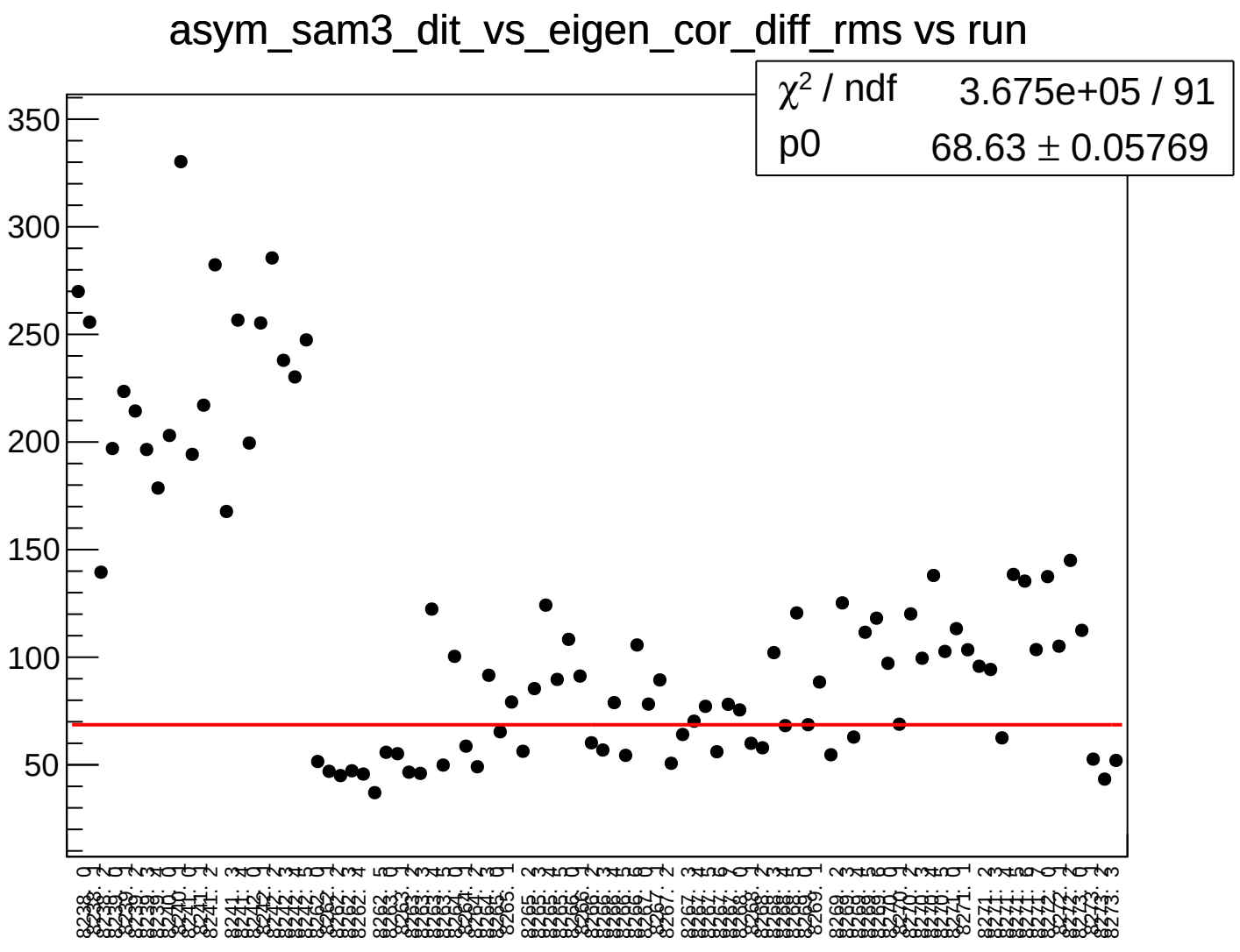

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 97.63 / 91
p0 0.1499 ± 0.08158
pull
Entries 92
Mean 7.505
Std Dev 0

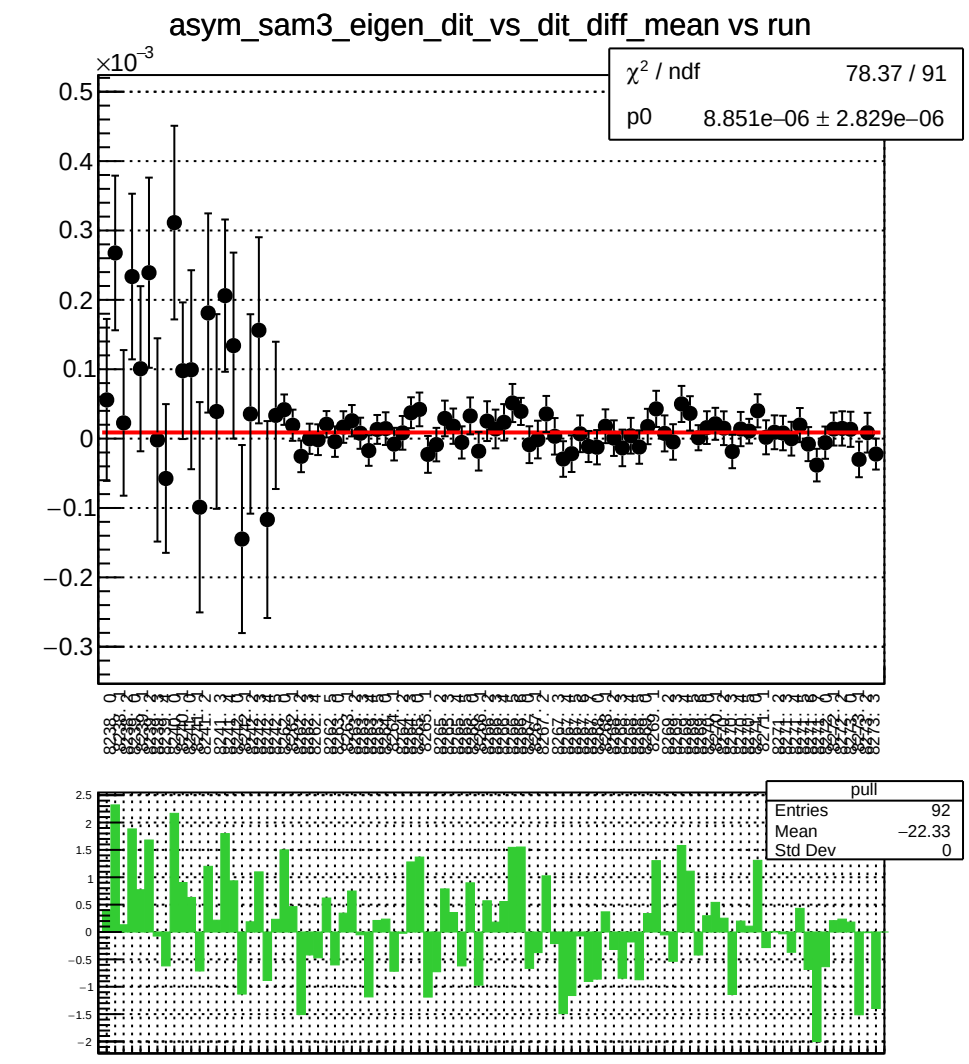

pull1D
Entries 92
Mean 0.0753
Std Dev 1.027

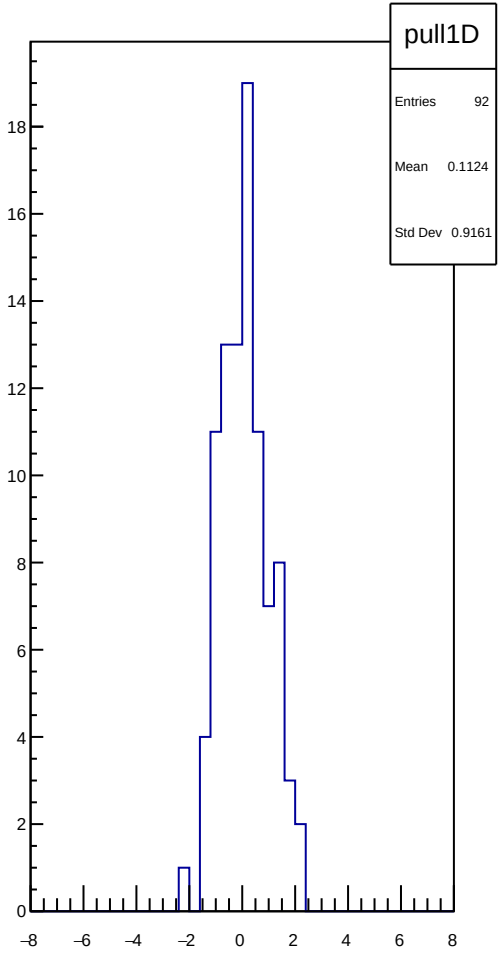

asym_sam3_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 3.675e+05 / 91
p0 68.63 ± 0.05769
350
300
250
200
150
100
50

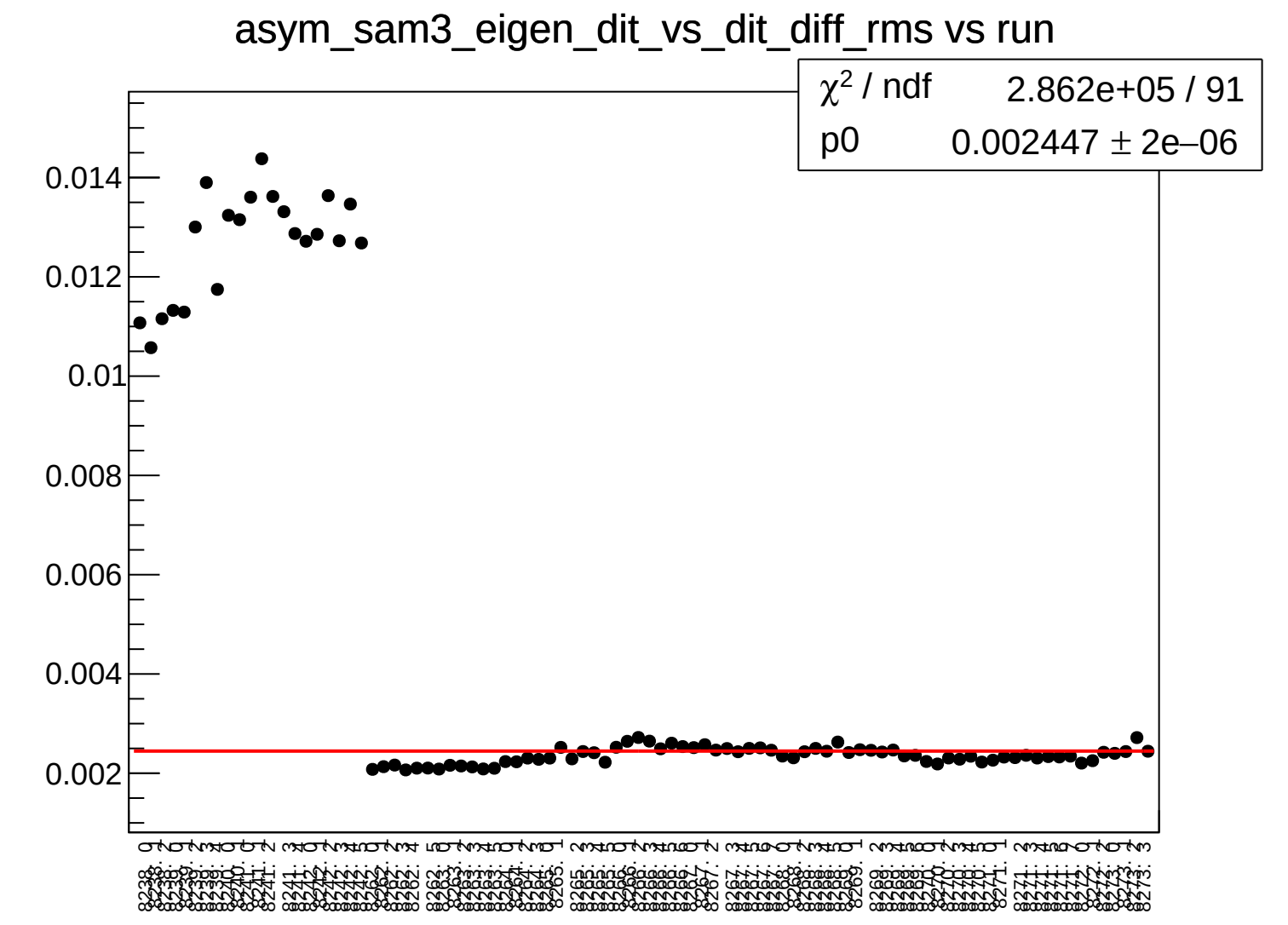

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.63 / 91
p0 0.1499 ± 0.08158
pull
Entries 92
Mean 7.505
Std Dev 0

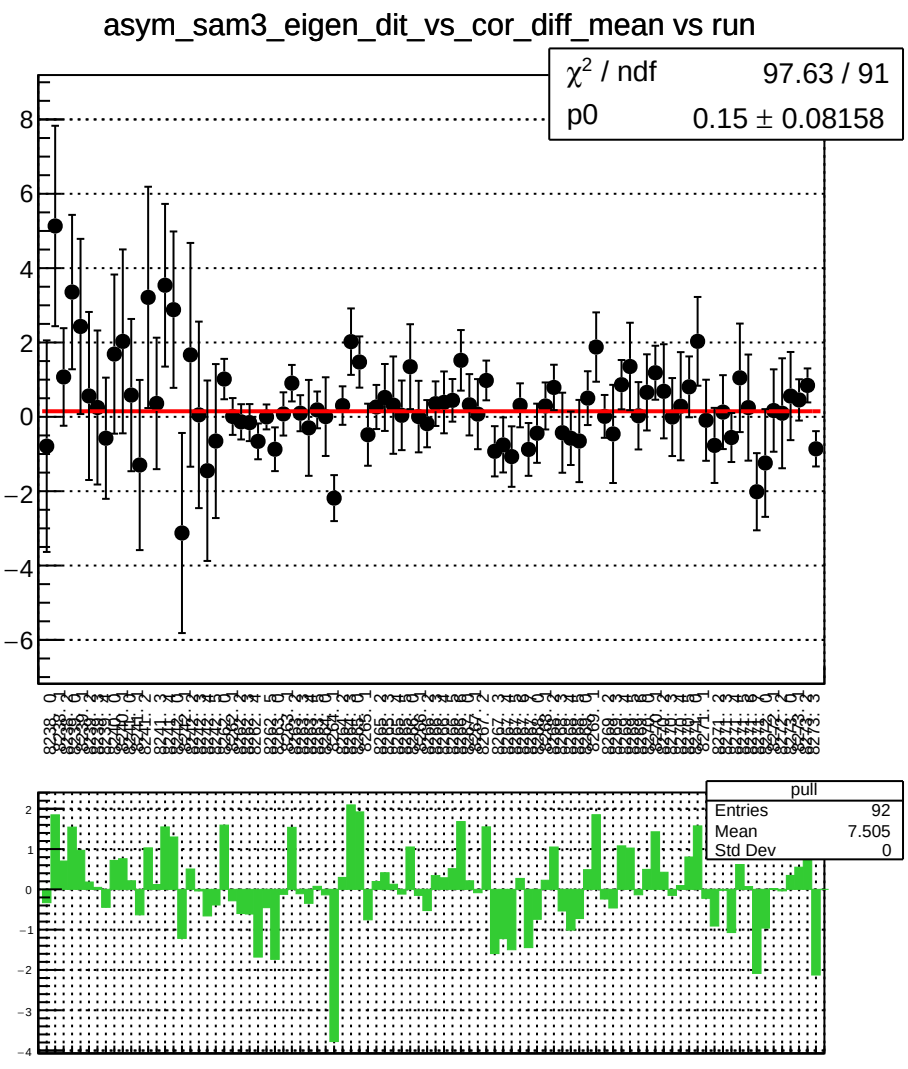

pull1D
Entries 92
Mean 0.0753
Std Dev 1.027

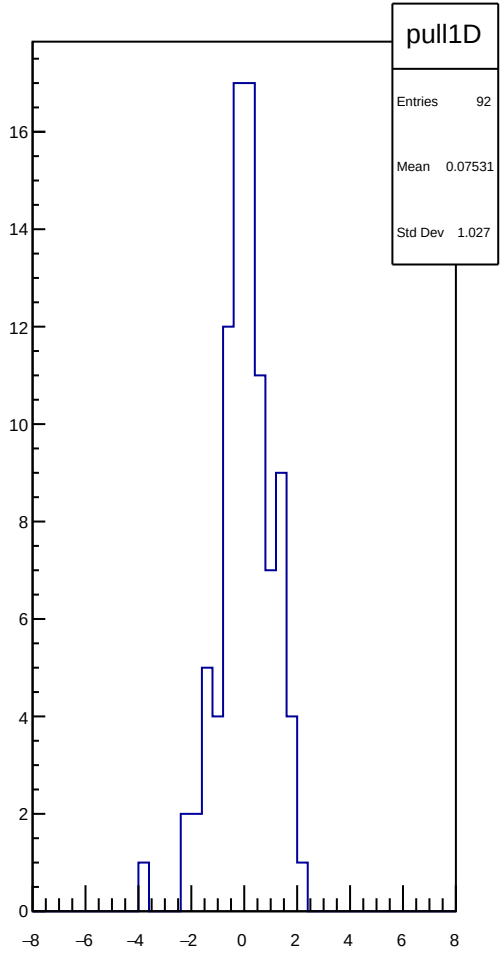

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.675e+05 / 91
p0 68.63 ± 0.05769
350
300
250
200
150
100
50

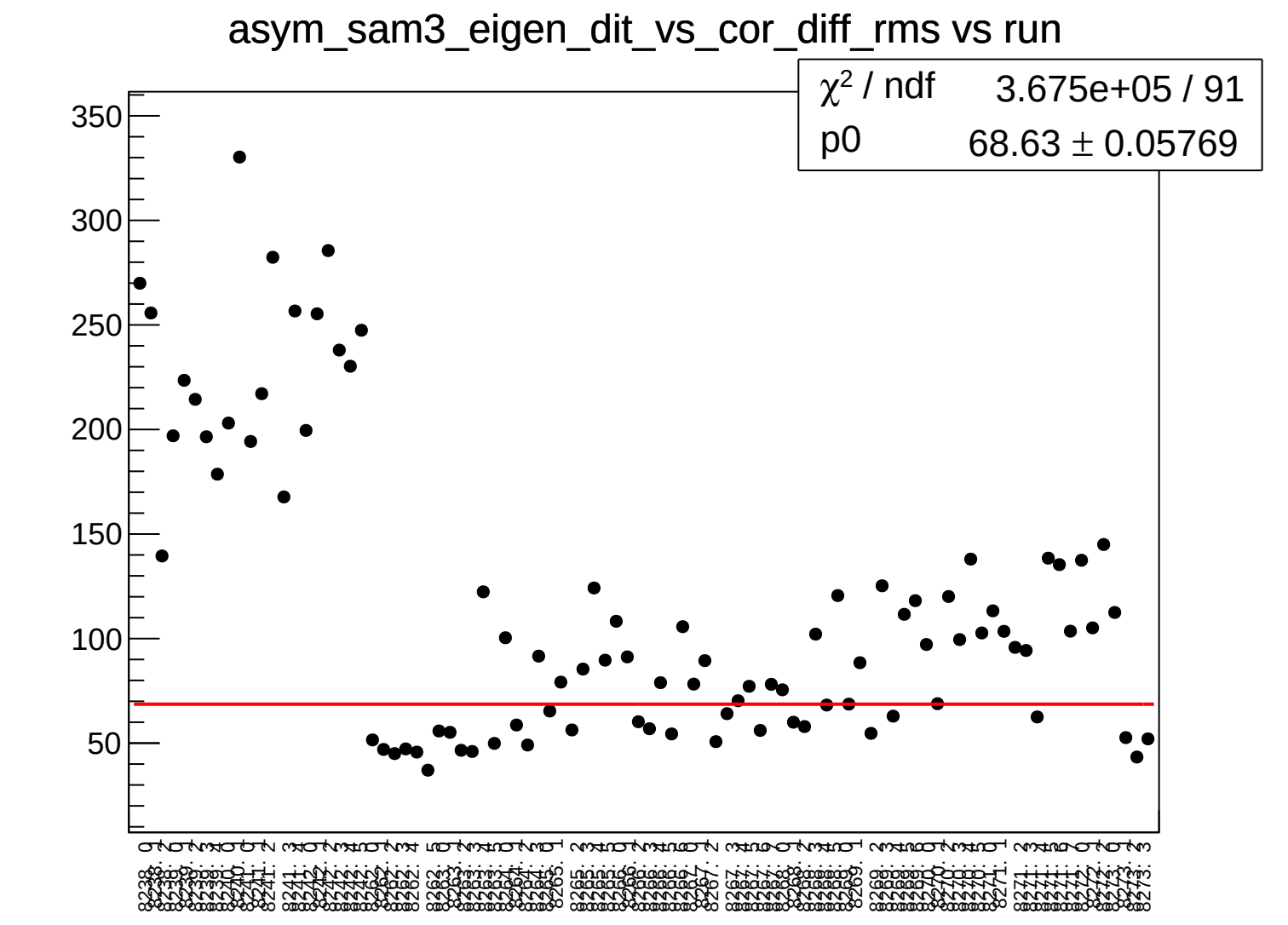

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.37 / 91
p0 8.851e−06 ± 2.829e−06
pull
Entries 92
Mean −22.33
Std Dev 0

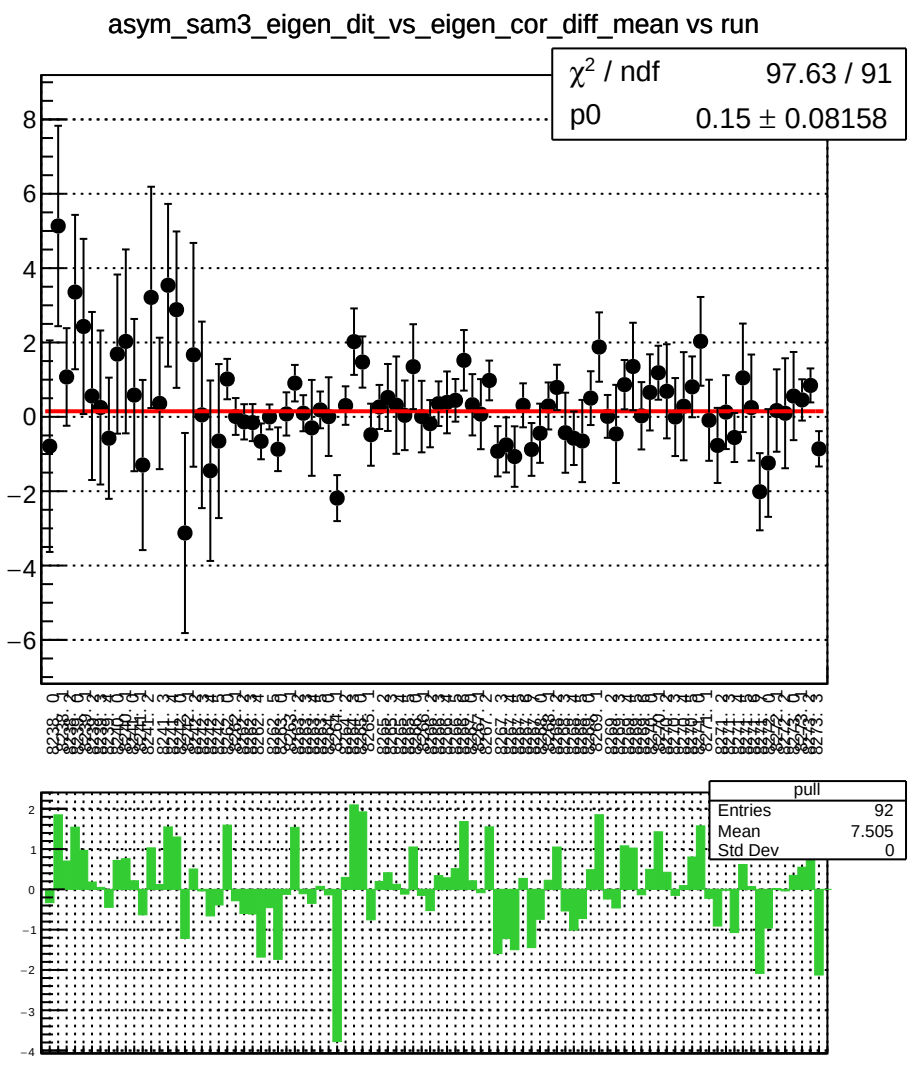

pull1D
Entries 92
Mean 0.1124
Std Dev 0.9161

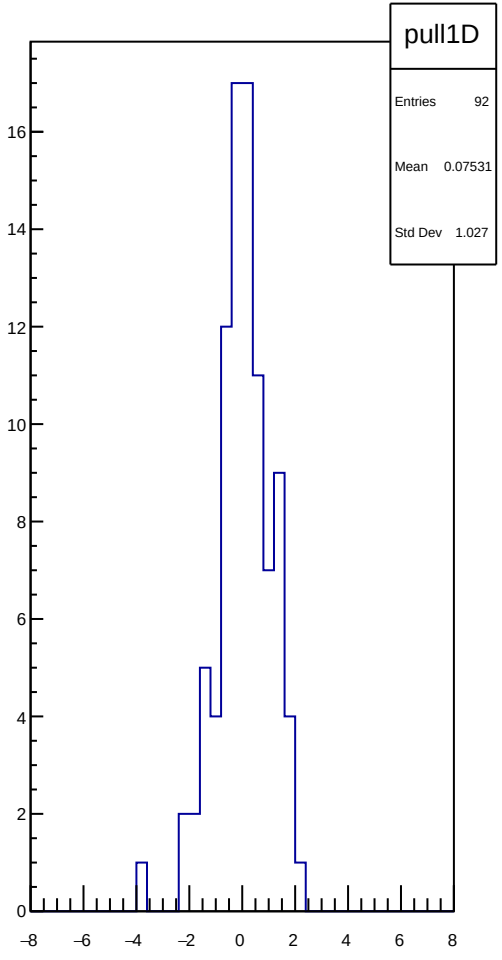

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.862e+05 / 91
p0 0.002447 ± 2e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

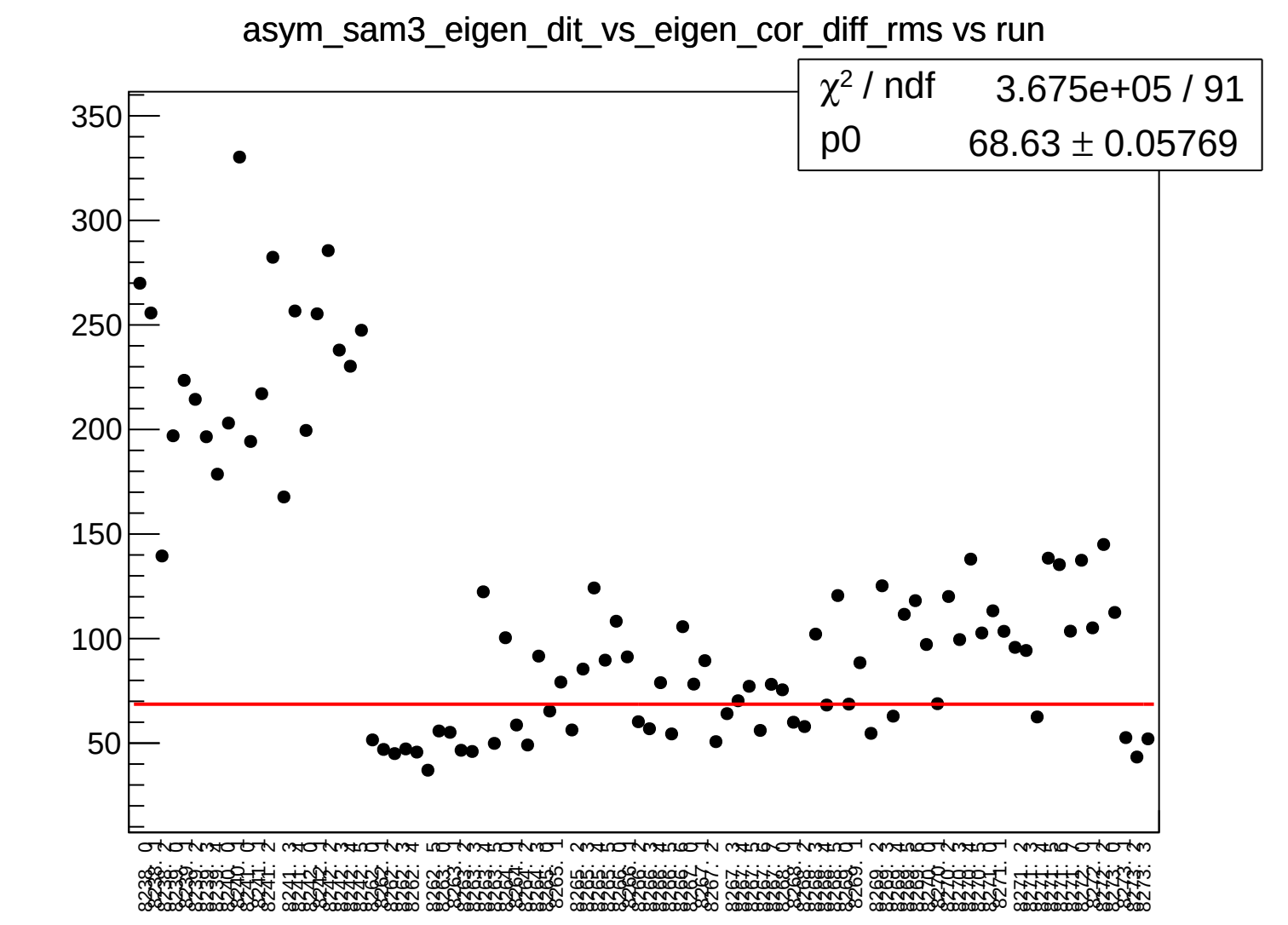

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.63 / 91
p0 0.15 ± 0.08158
pull
Entries 92
Mean 7.505
Std Dev 0

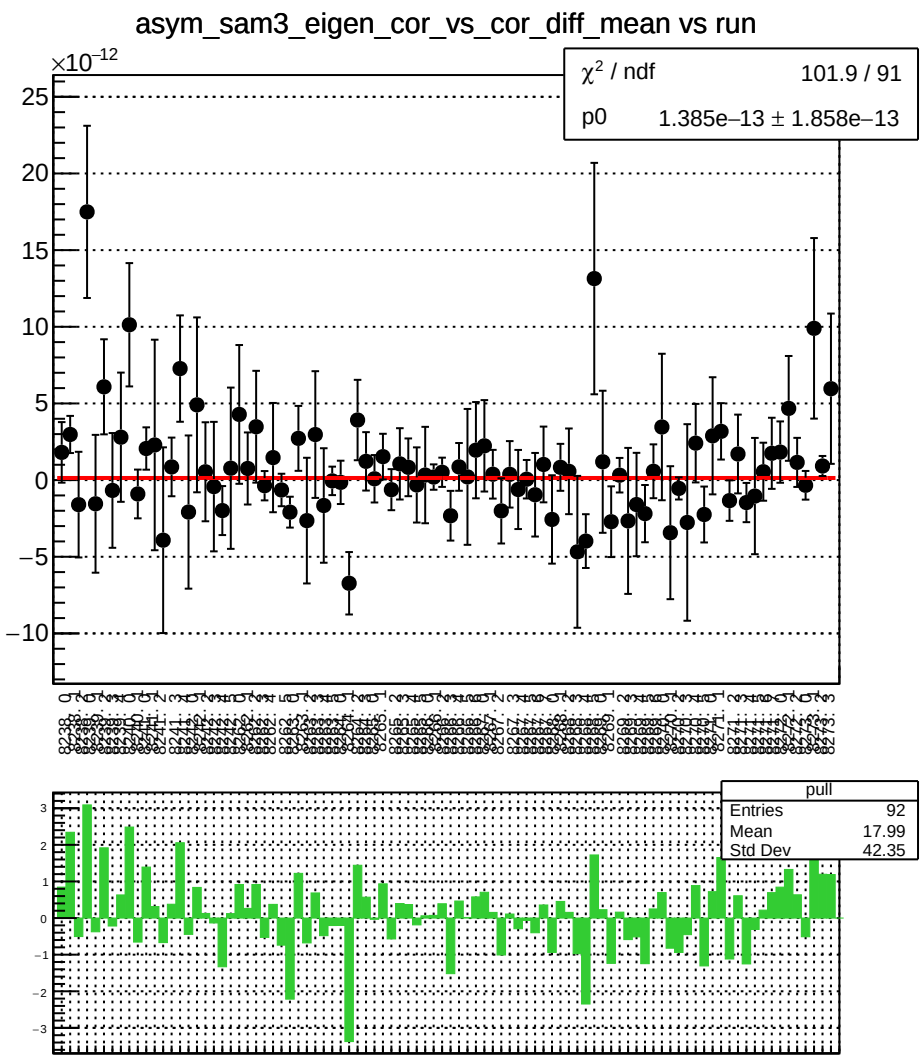

pull1D
Entries 92
Mean 0.07531
Std Dev 1.027

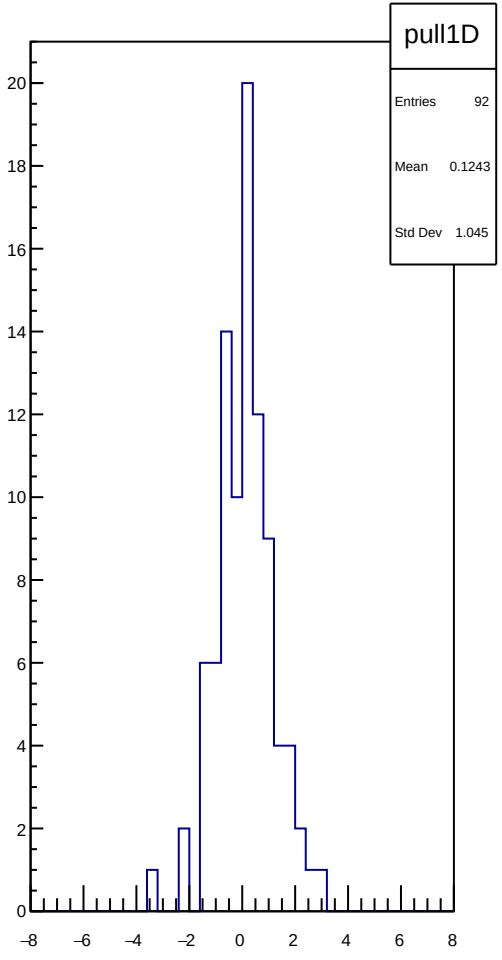

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.675e+05 / 91
p0 68.63 ± 0.05769
350
300
250
200
150
100
50

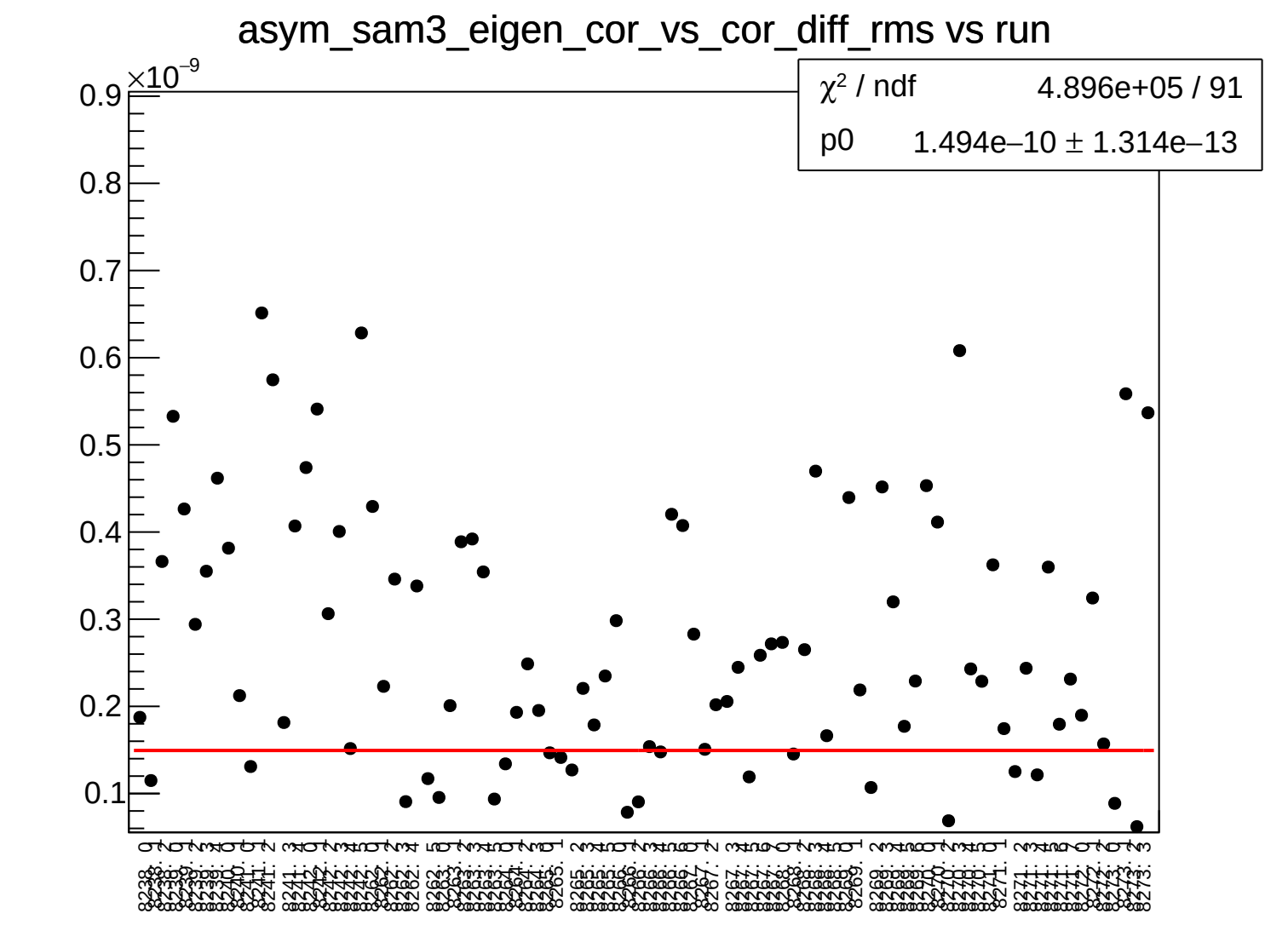

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.63 / 91
p0 0.15 ± 0.08158
pull
Entries 92
Mean 7.505
Std Dev 0

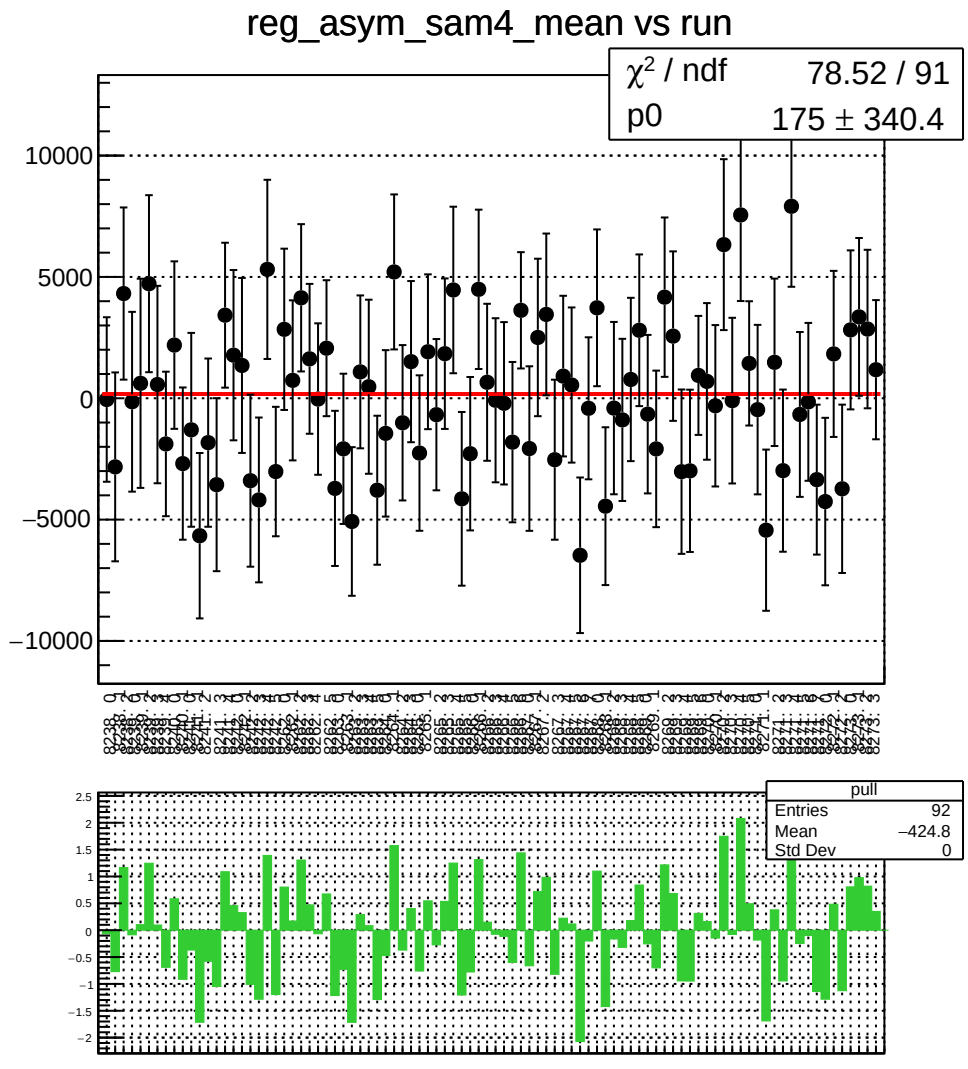

pull1D
Entries 92
Mean 0.07531
Std Dev 1.027

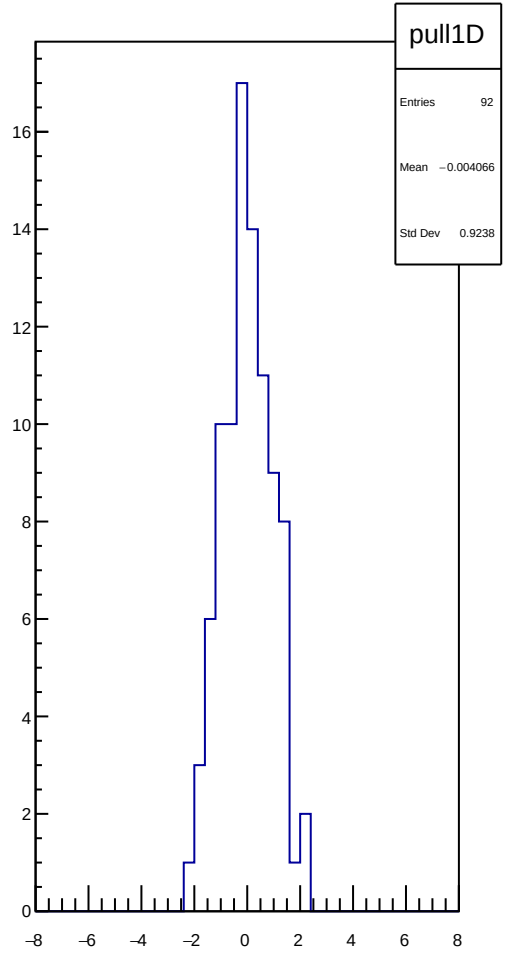

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.675e+05 / 91
p0 68.63 ± 0.05769
350
300
250
200
150
100
50

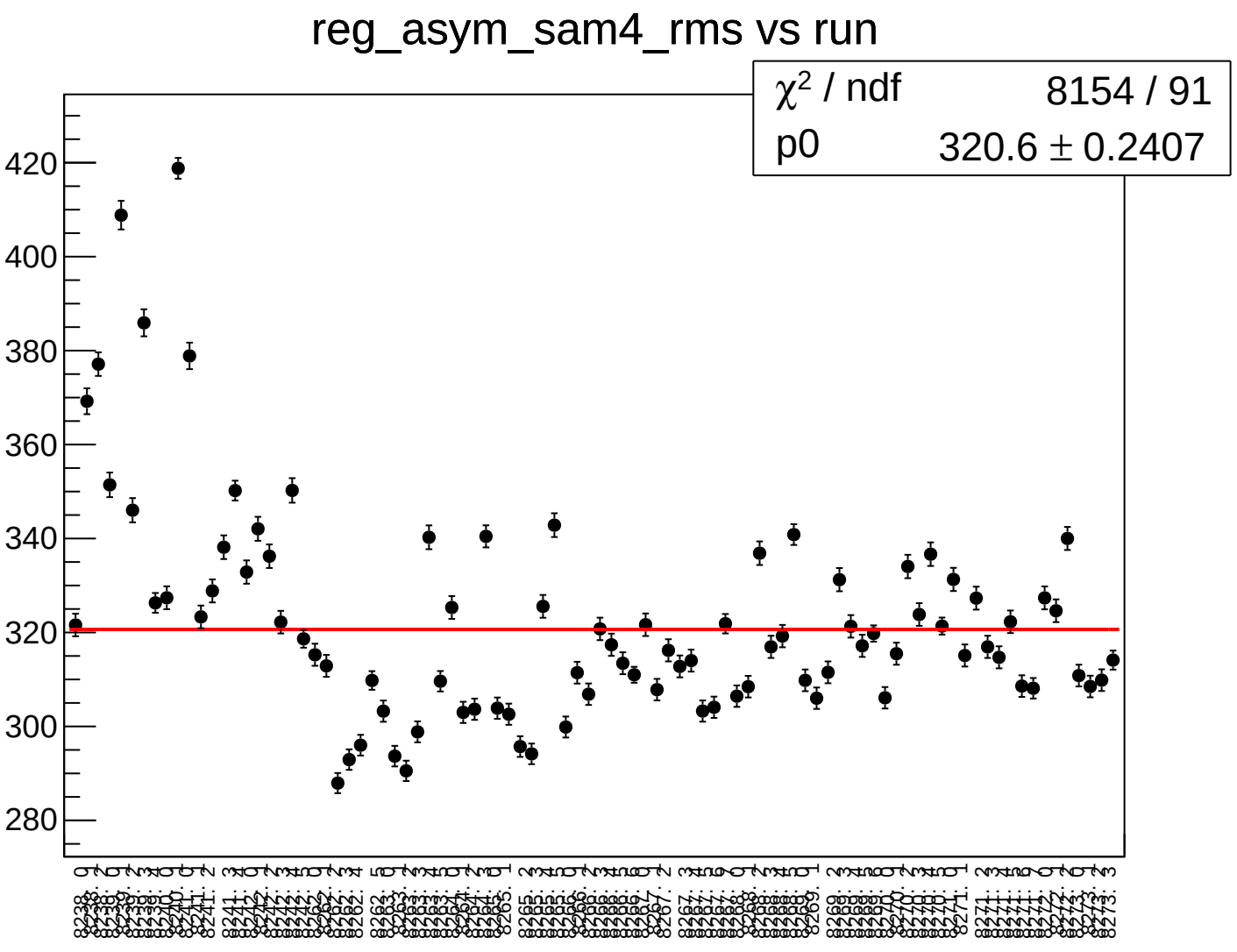

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.9 / 91
p0 1.385e−13 ± 1.858e−13
pull
Entries 92
Mean 17.99
Std Dev 42.35

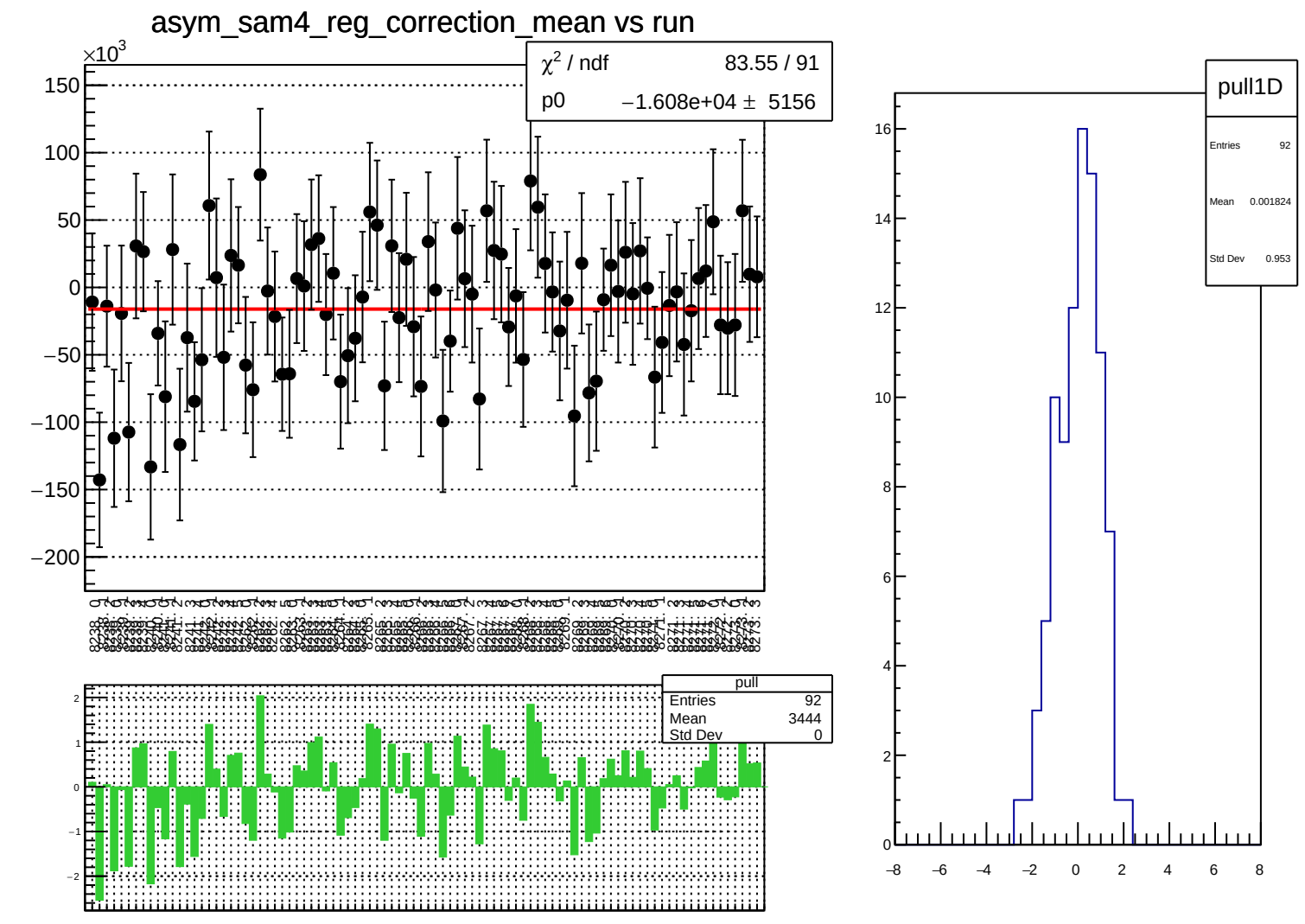

pull1D
Entries 92
Mean 0.1243
Std Dev 1.045

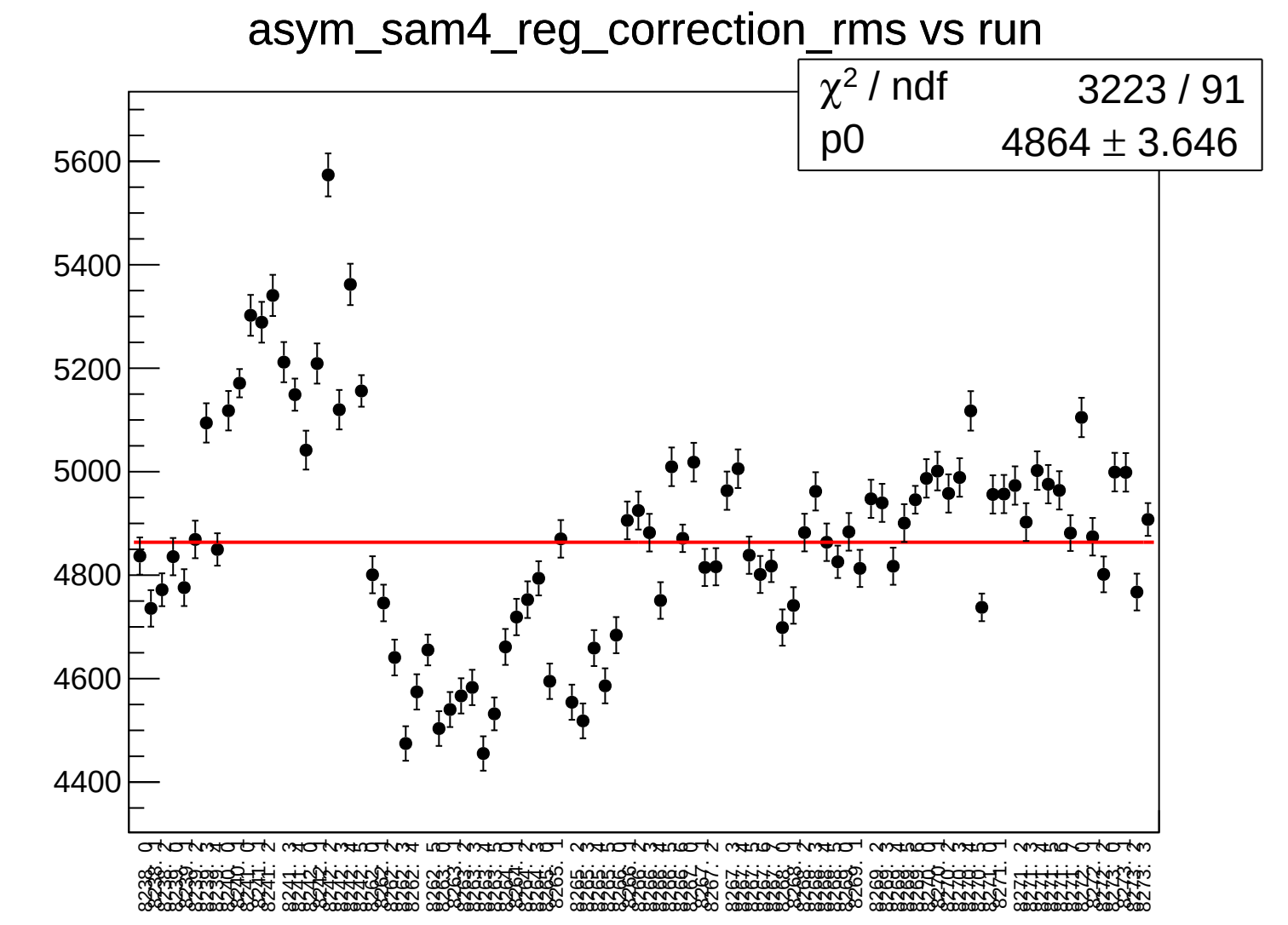

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 4.896e+05 / 91
p0 1.494e−10 ± 1.314e−13

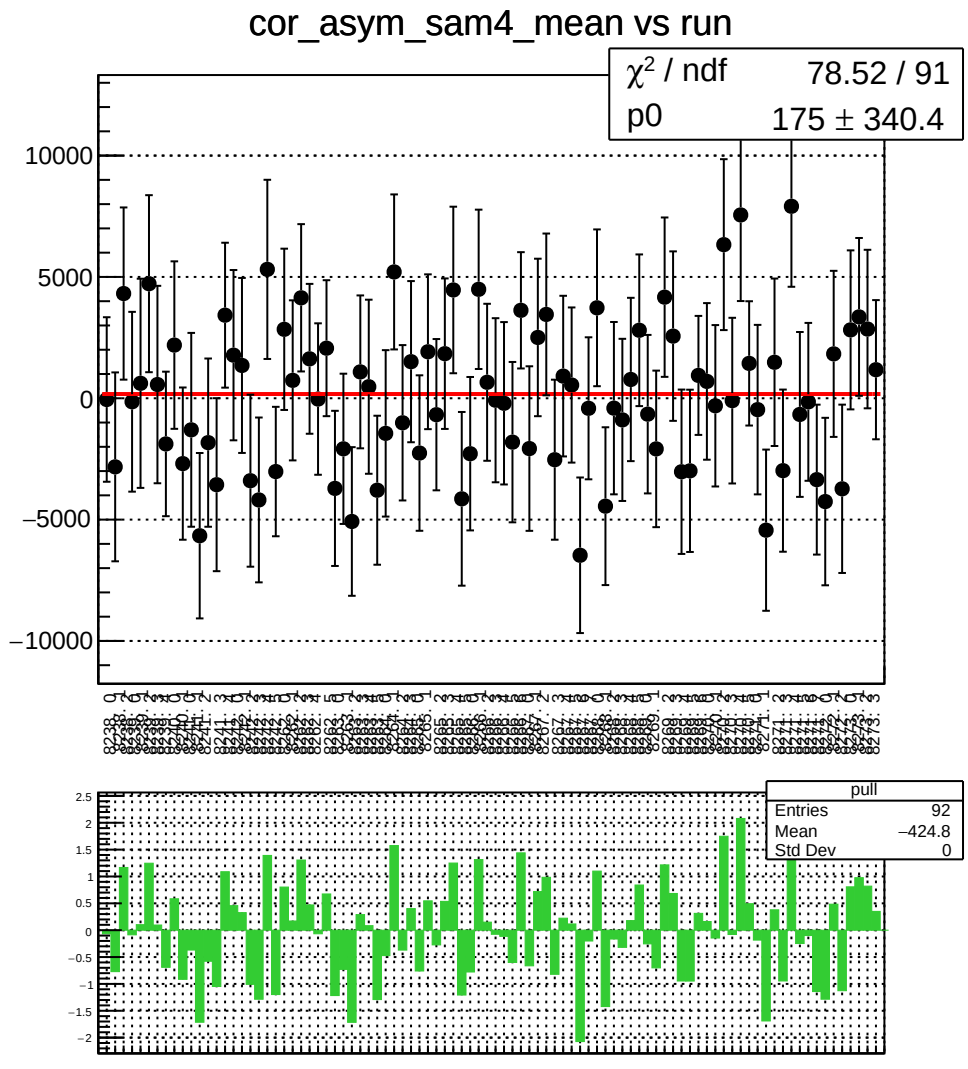

reg_asym_sam4_mean vs run
χ² / ndf 78.52 / 91
p0 175 ± 340.4
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −424.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

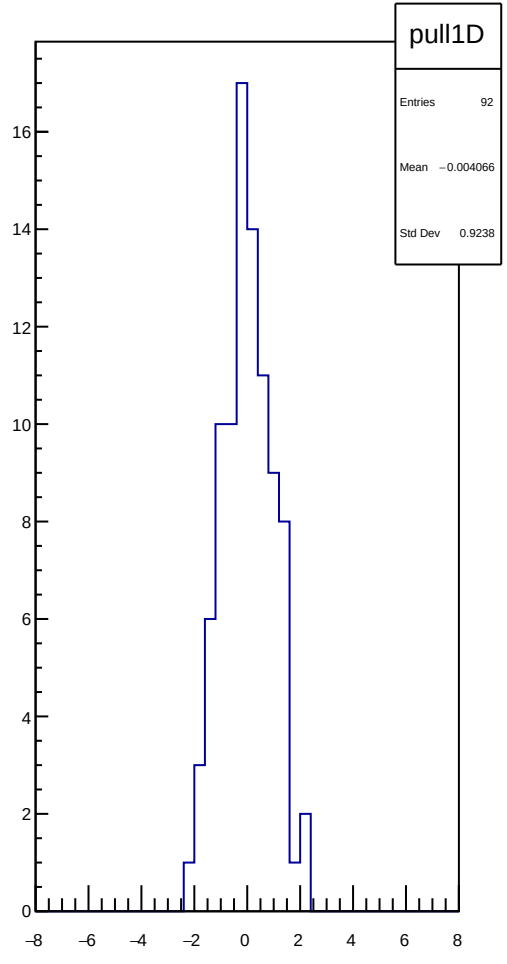

pull1D
Entries 92
Mean −0.004066
Std Dev 0.9238
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

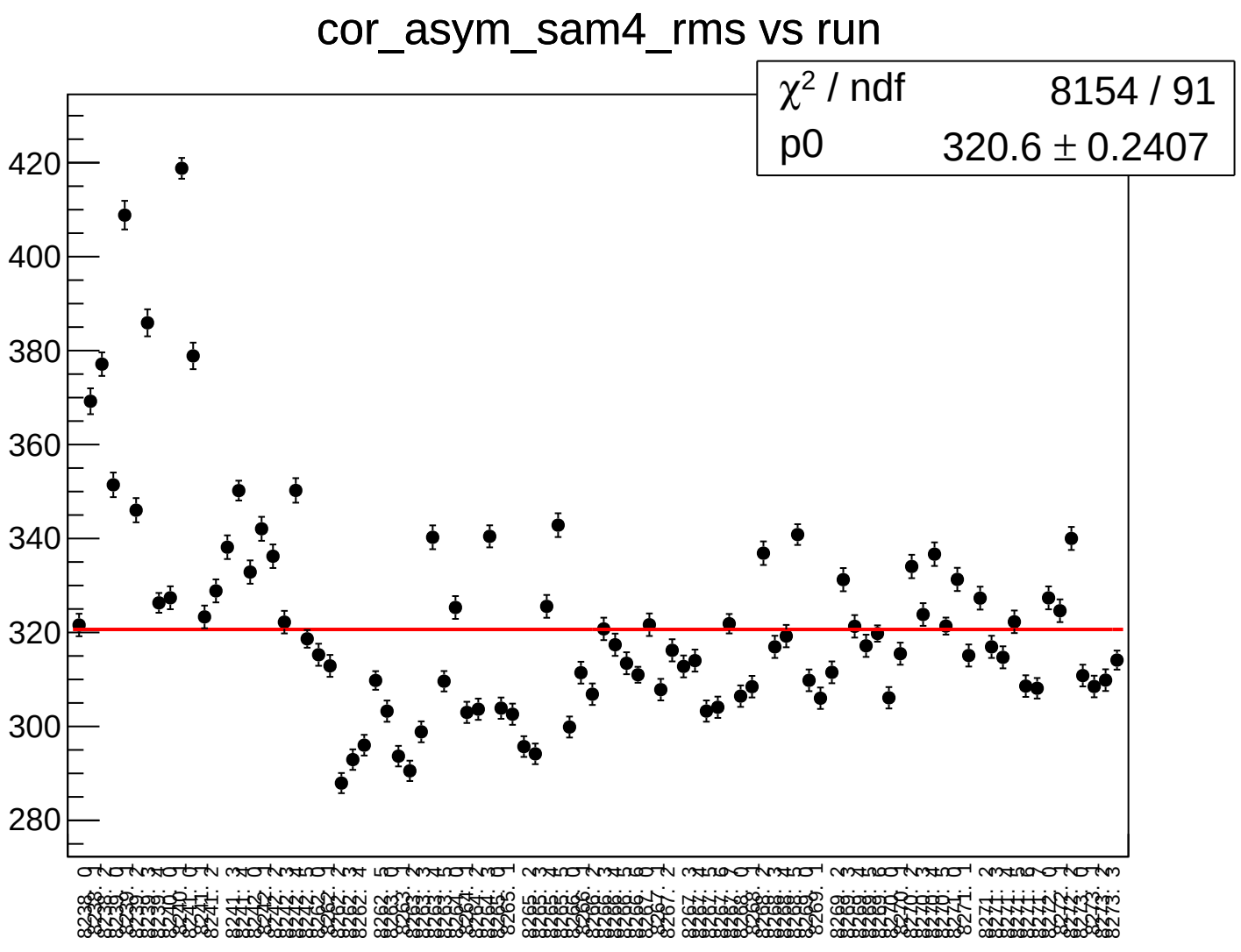

reg_asym_sam4_rms vs run
χ² / ndf 8154 / 91
p0 320.6 ± 0.2407
420
400
380
360
340
320
300
280

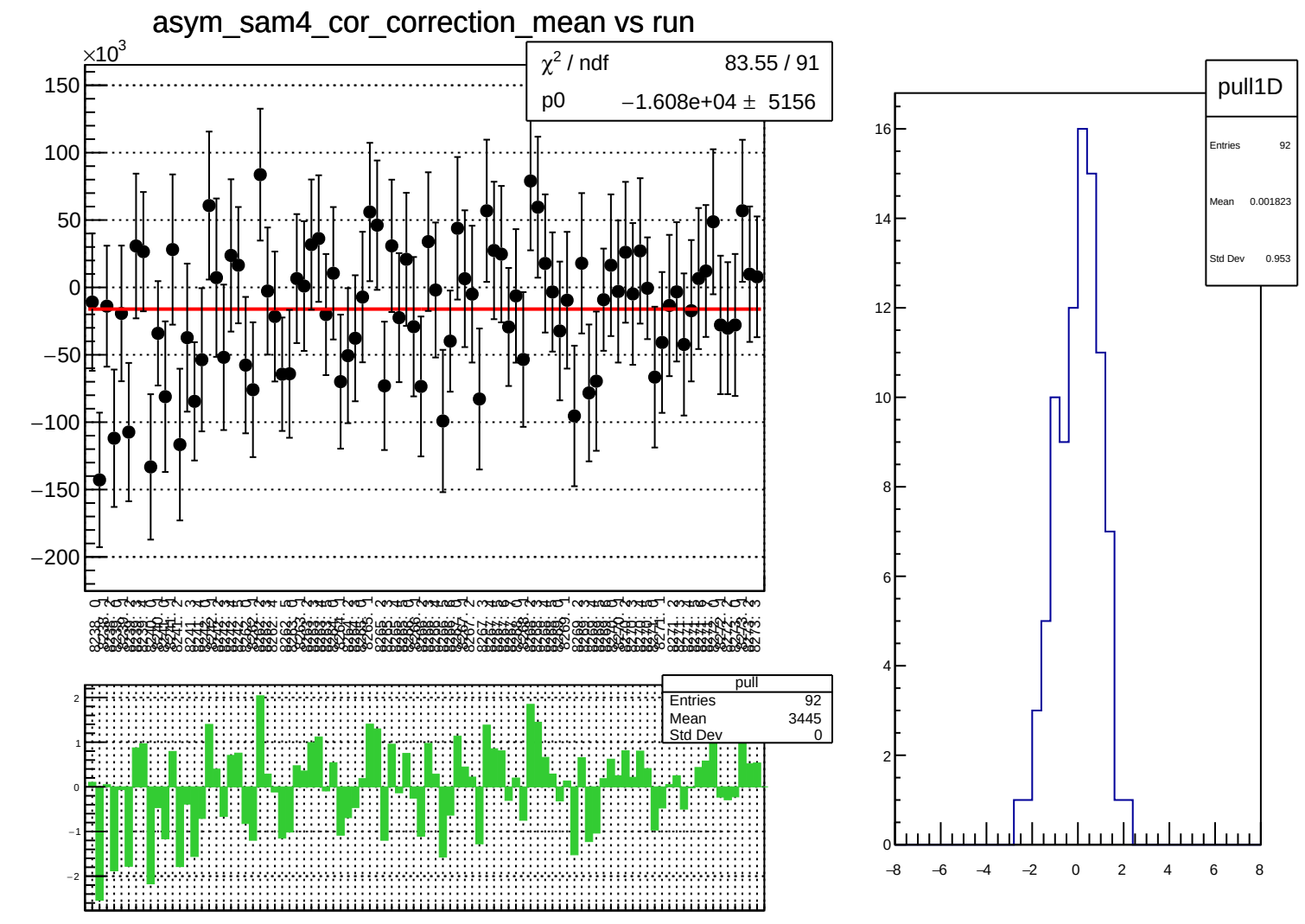

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 83.55 / 91
p0 −1.608e+04 ± 5156
pull
Entries 92
Mean 3444
Std Dev 0
pull1D
Entries 92
Mean 0.001824
Std Dev 0.953

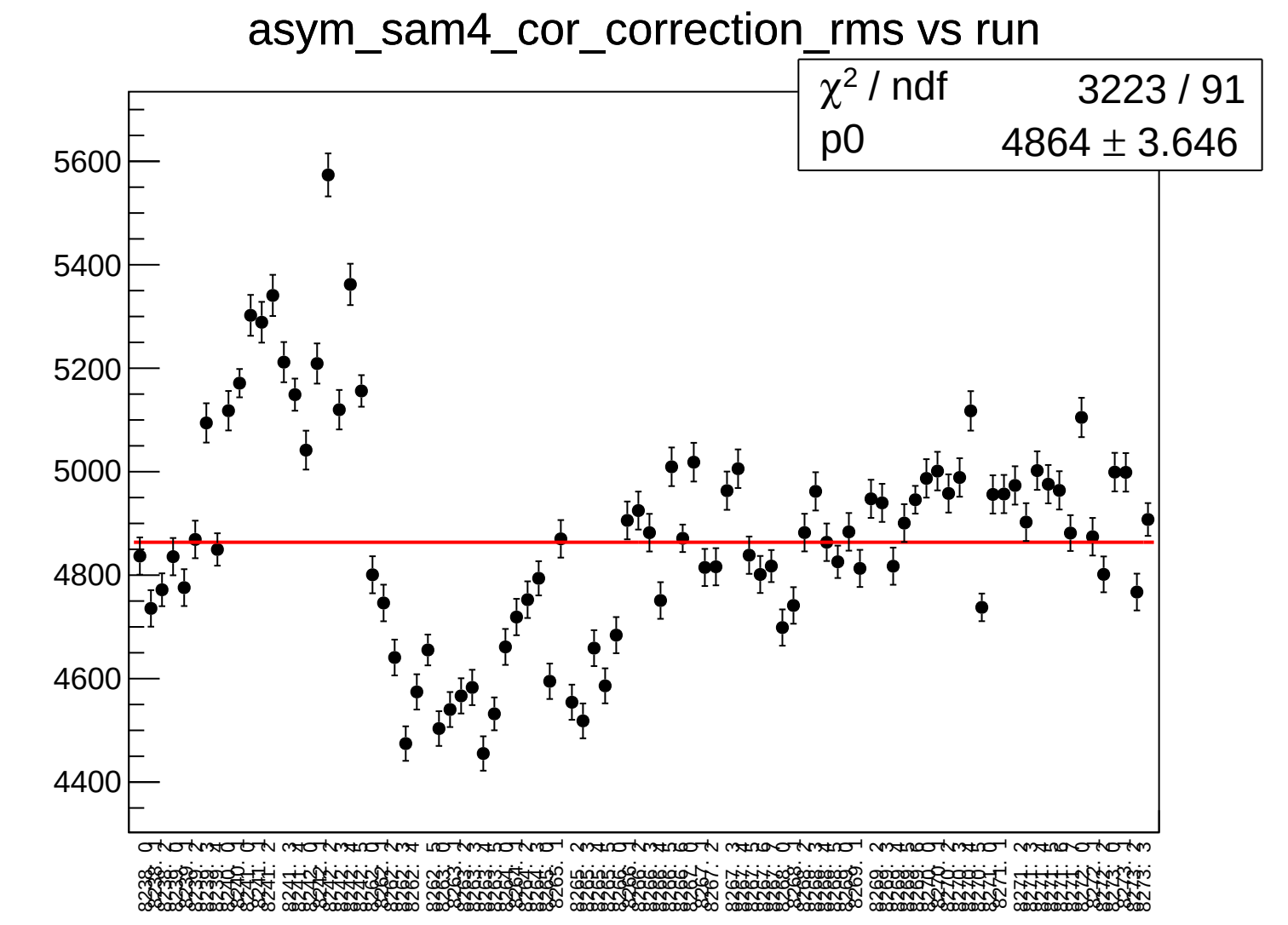

asym_sam4_reg_correction_rms vs run
χ² / ndf 3223 / 91
p0 4864 ± 3.646
5600
5400
5200
5000
4800
4600
4400

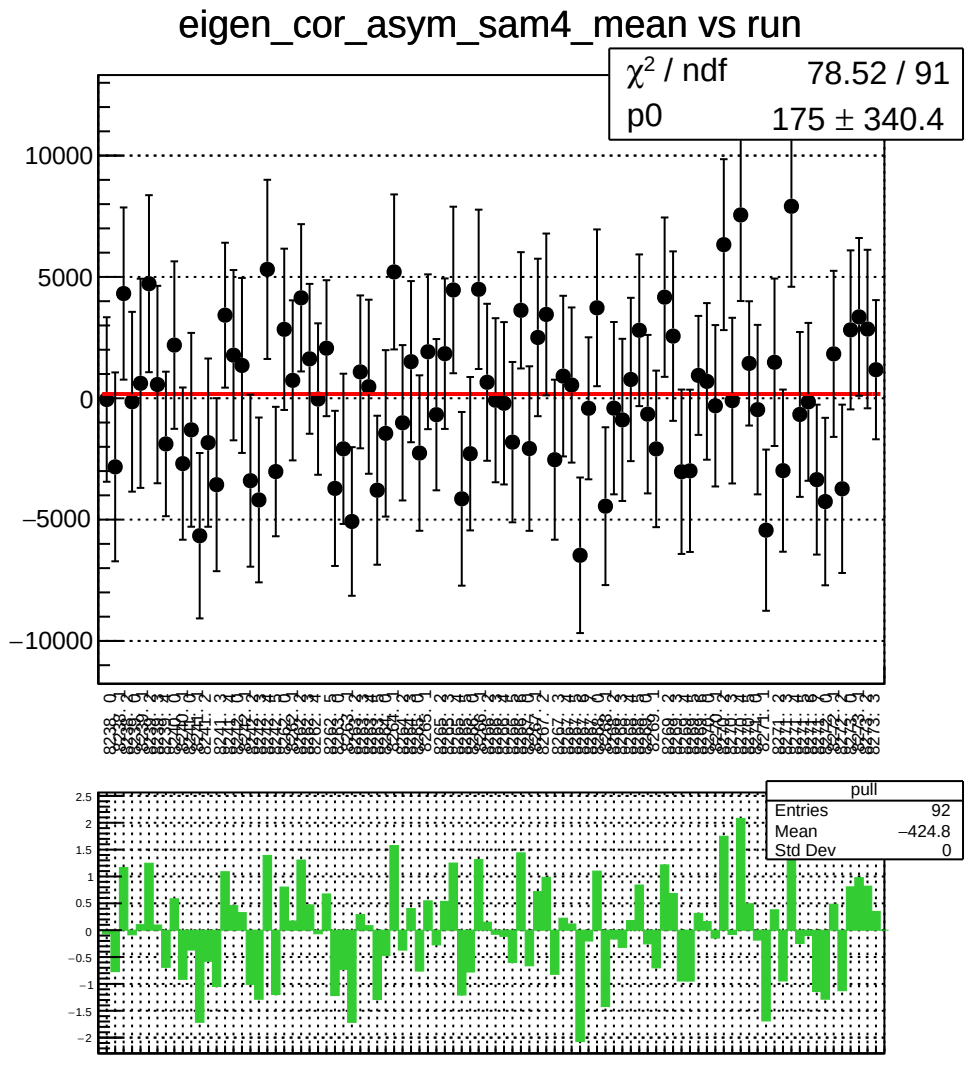

cor_asym_sam4_mean vs run
χ² / ndf 78.52 / 91
p0 175 ± 340.4
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −424.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

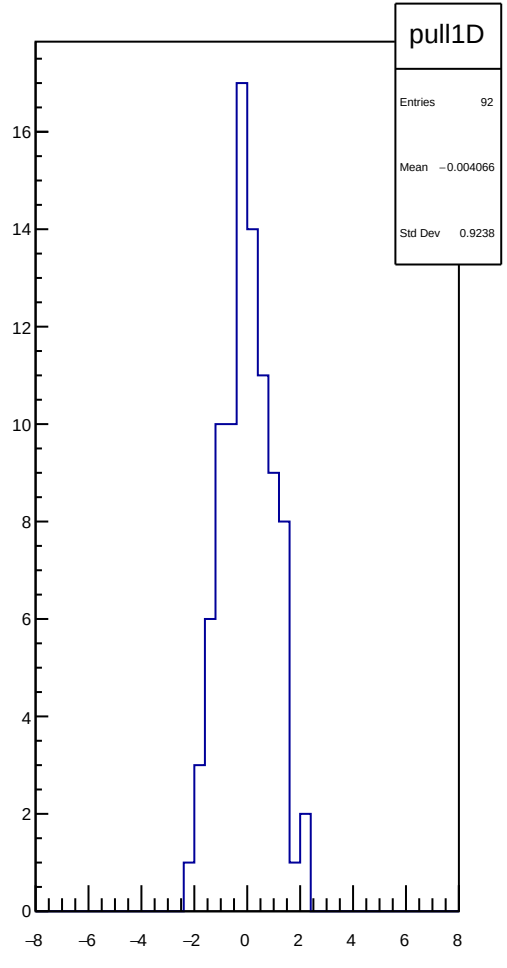

pull1D
Entries 92
Mean −0.004066
Std Dev 0.9238
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

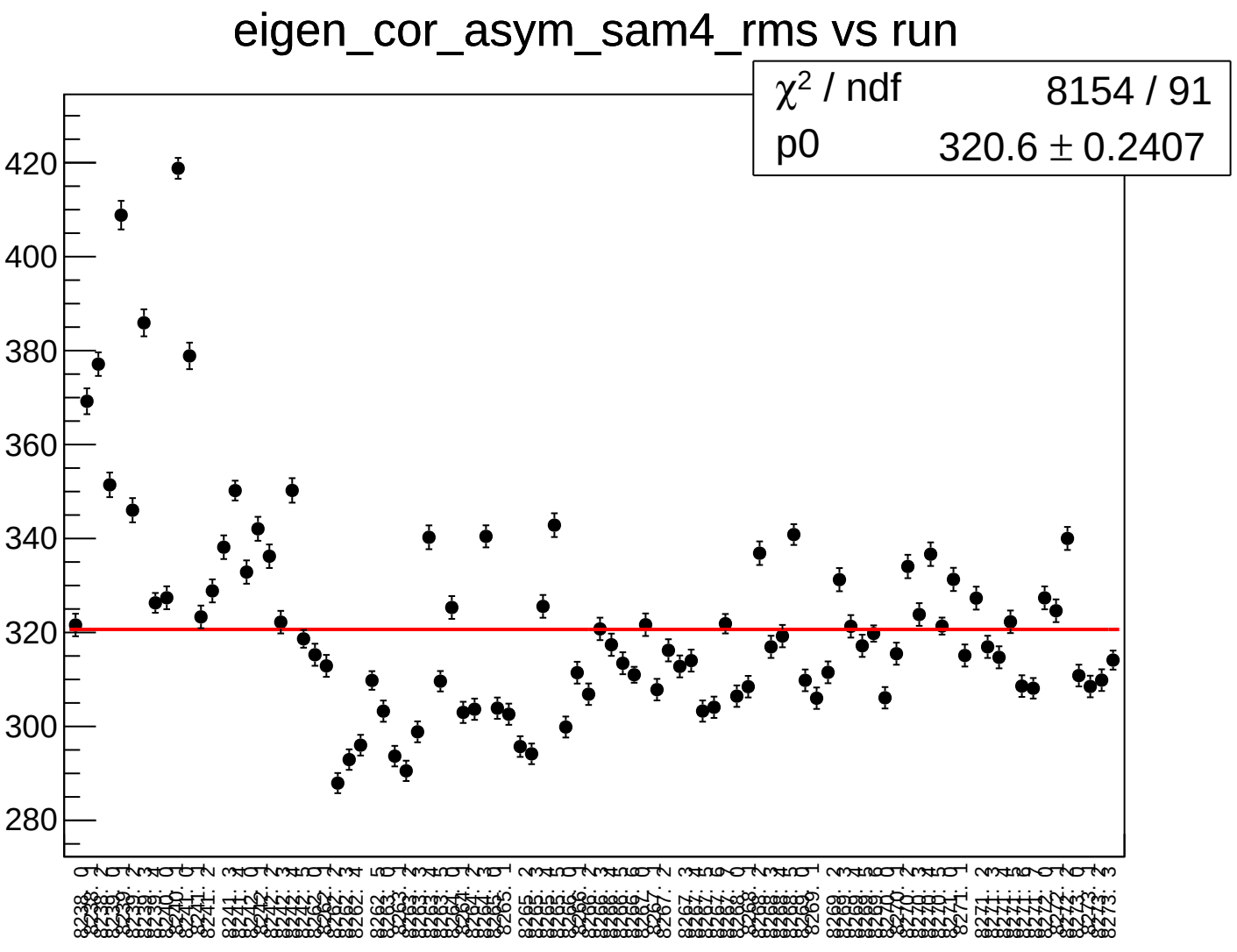

cor_asym_sam4_rms vs run
χ² / ndf 8154 / 91
p0 320.6 ± 0.2407
420
400
380
360
340
320
300
280

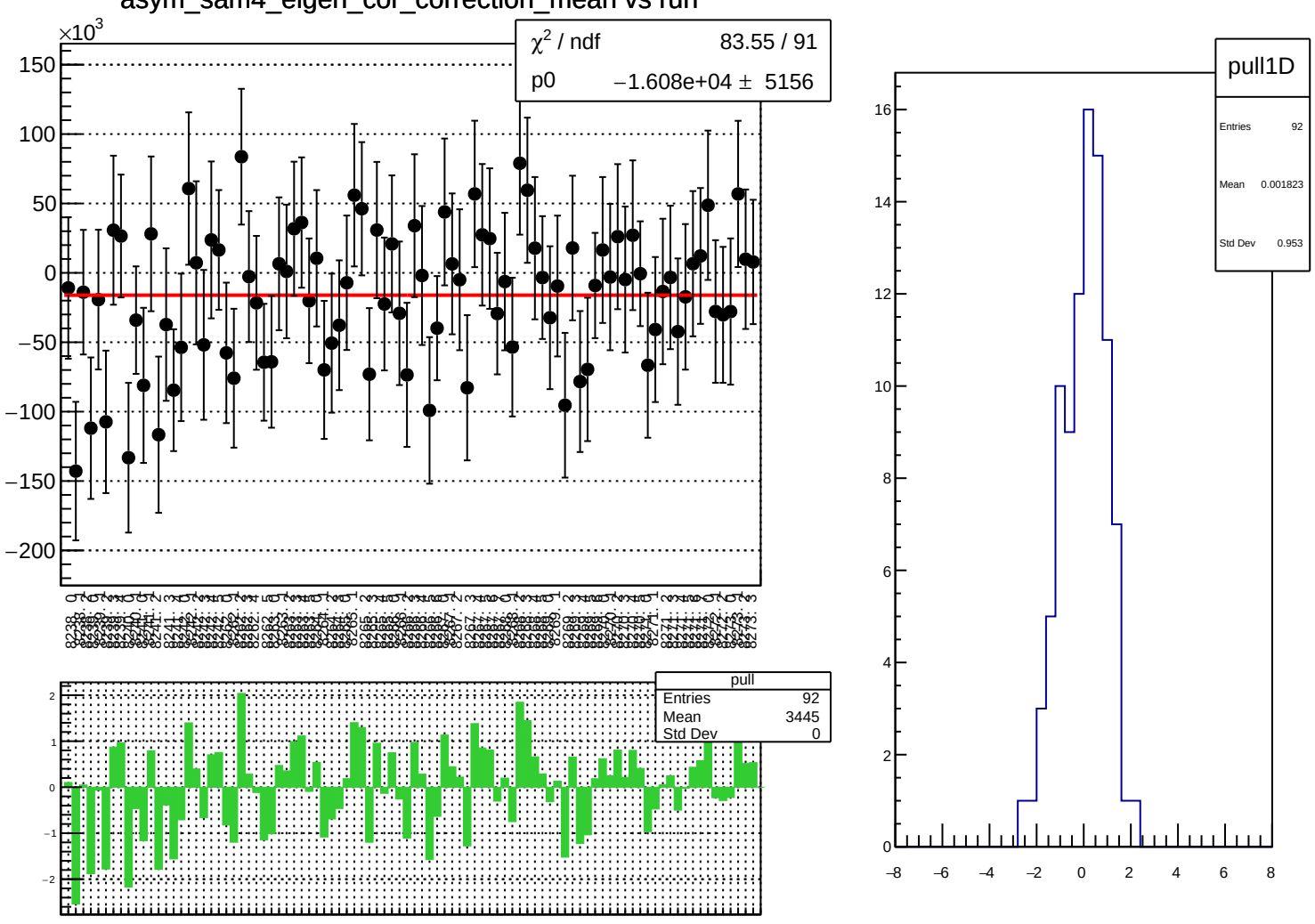

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 83.55 / 91
p0 −1.608e+04 ± 5156
pull
Entries 92
Mean 3445
Std Dev 0
pull1D
Entries 92
Mean 0.001823
Std Dev 0.953

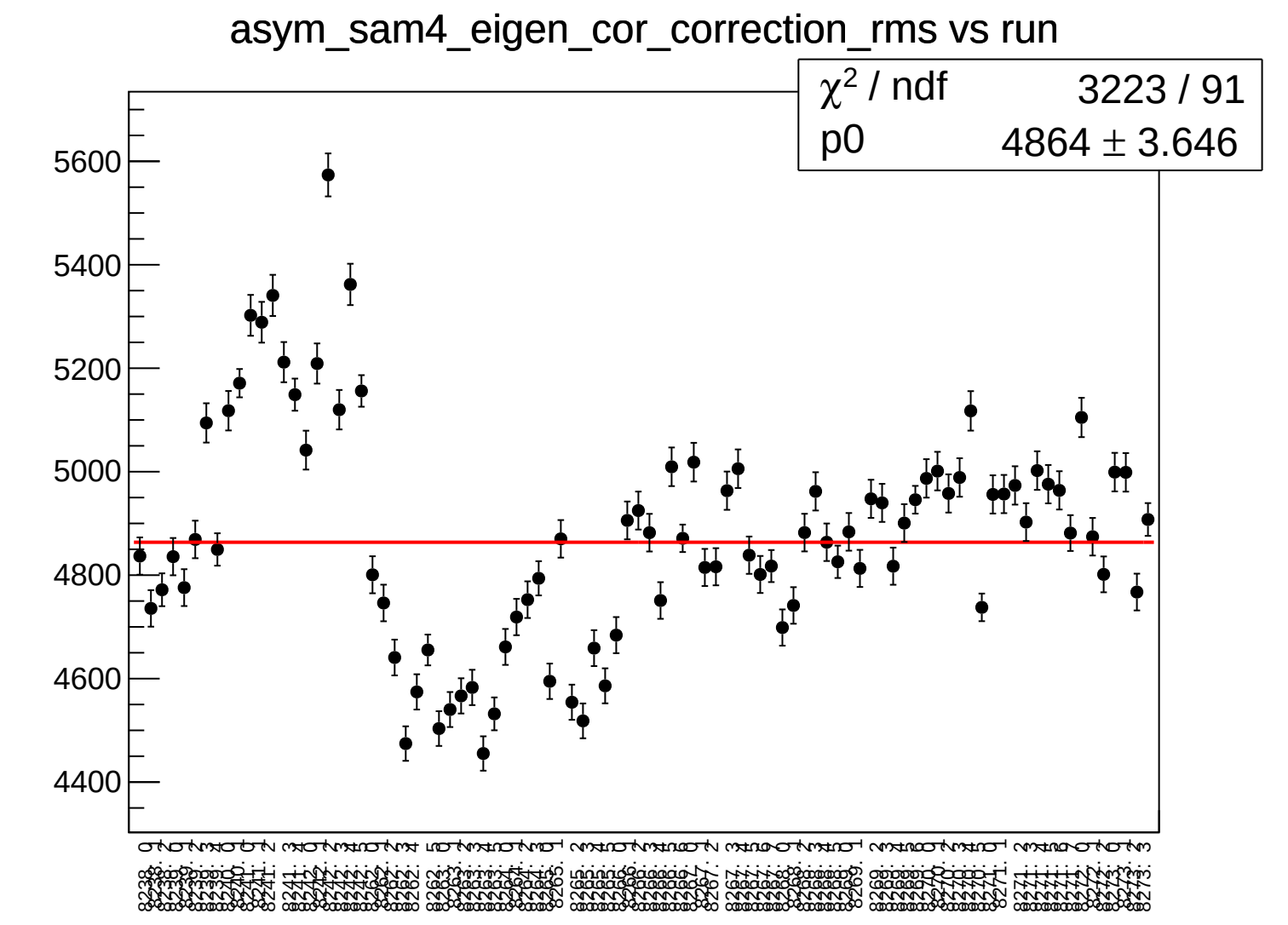

asym_sam4_cor_correction_rms vs run
χ² / ndf 3223 / 91
p0 4864 ± 3.646
5600
5400
5200
5000
4800
4600
4400

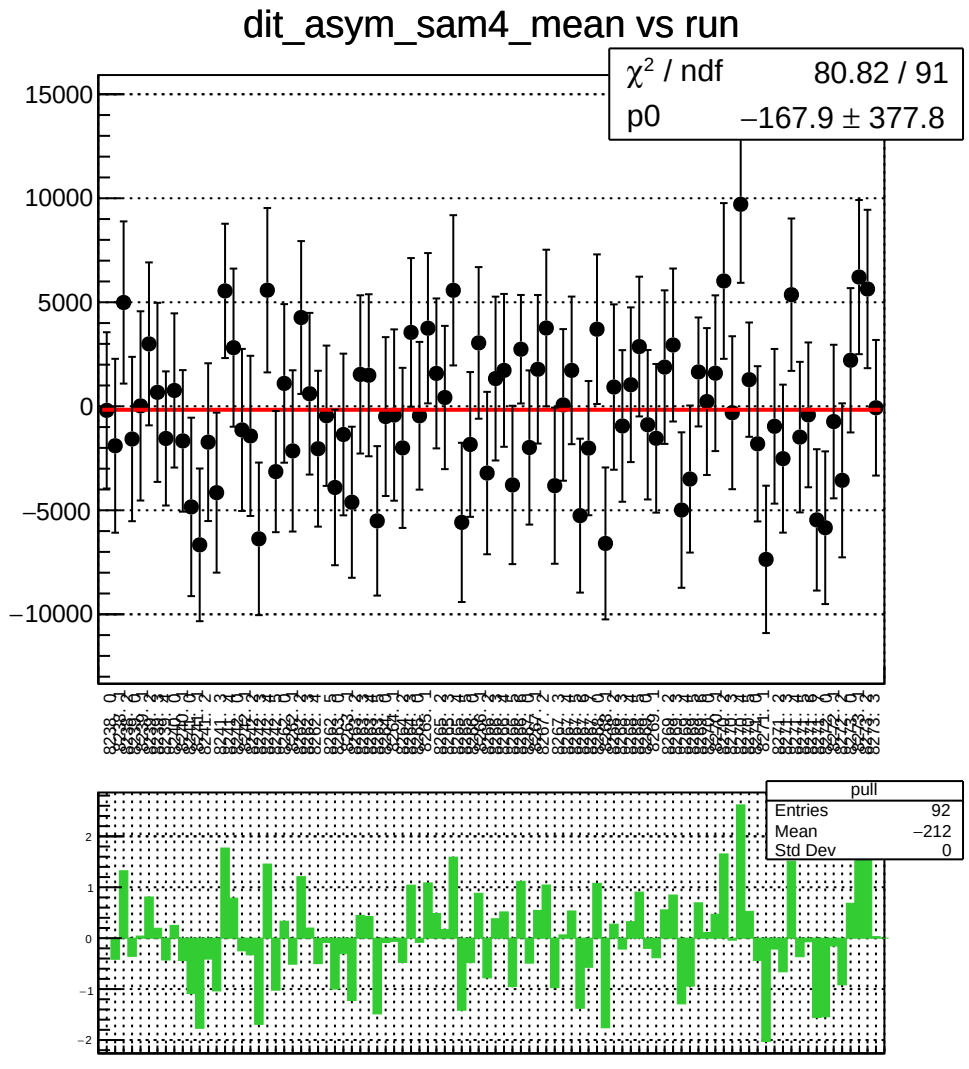

eigen_cor_asym_sam4_mean vs run
χ² / ndf 78.52 / 91
p0 175 ± 340.4
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −424.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

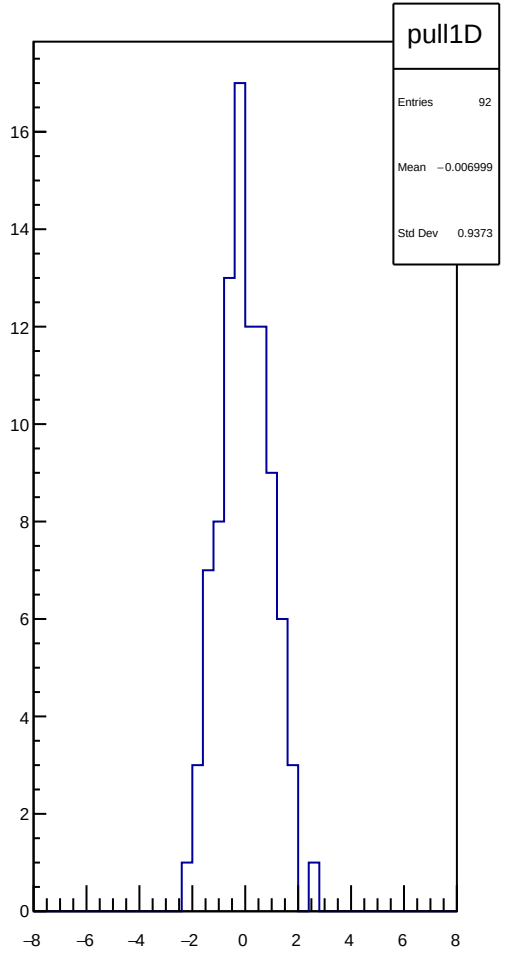

pull1D
Entries 92
Mean −0.004066
Std Dev 0.9238
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

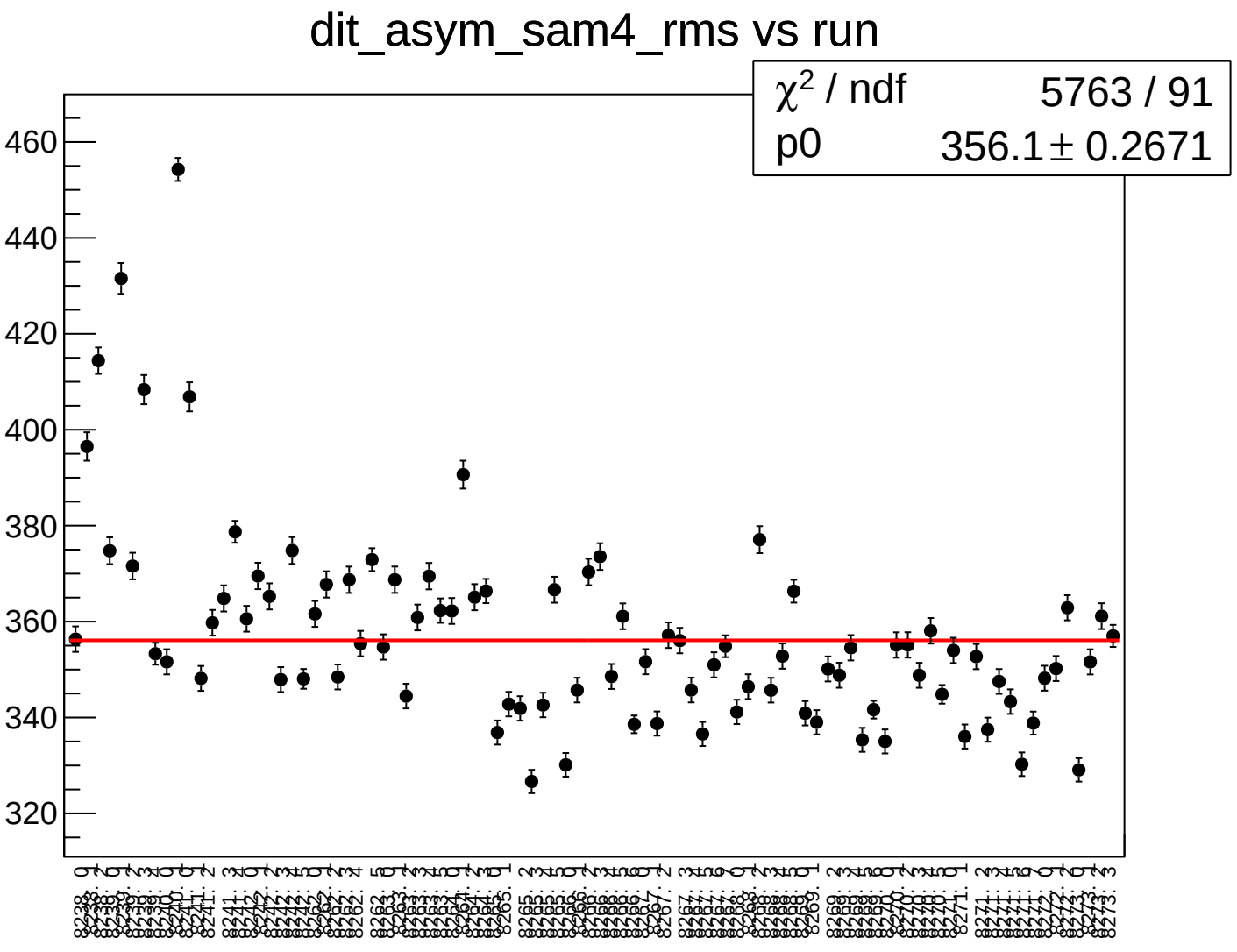

eigen_cor_asym_sam4_rms vs run
χ² / ndf 8154 / 91
p0 320.6 ± 0.2407
420
400
380
360
340
320
300
280

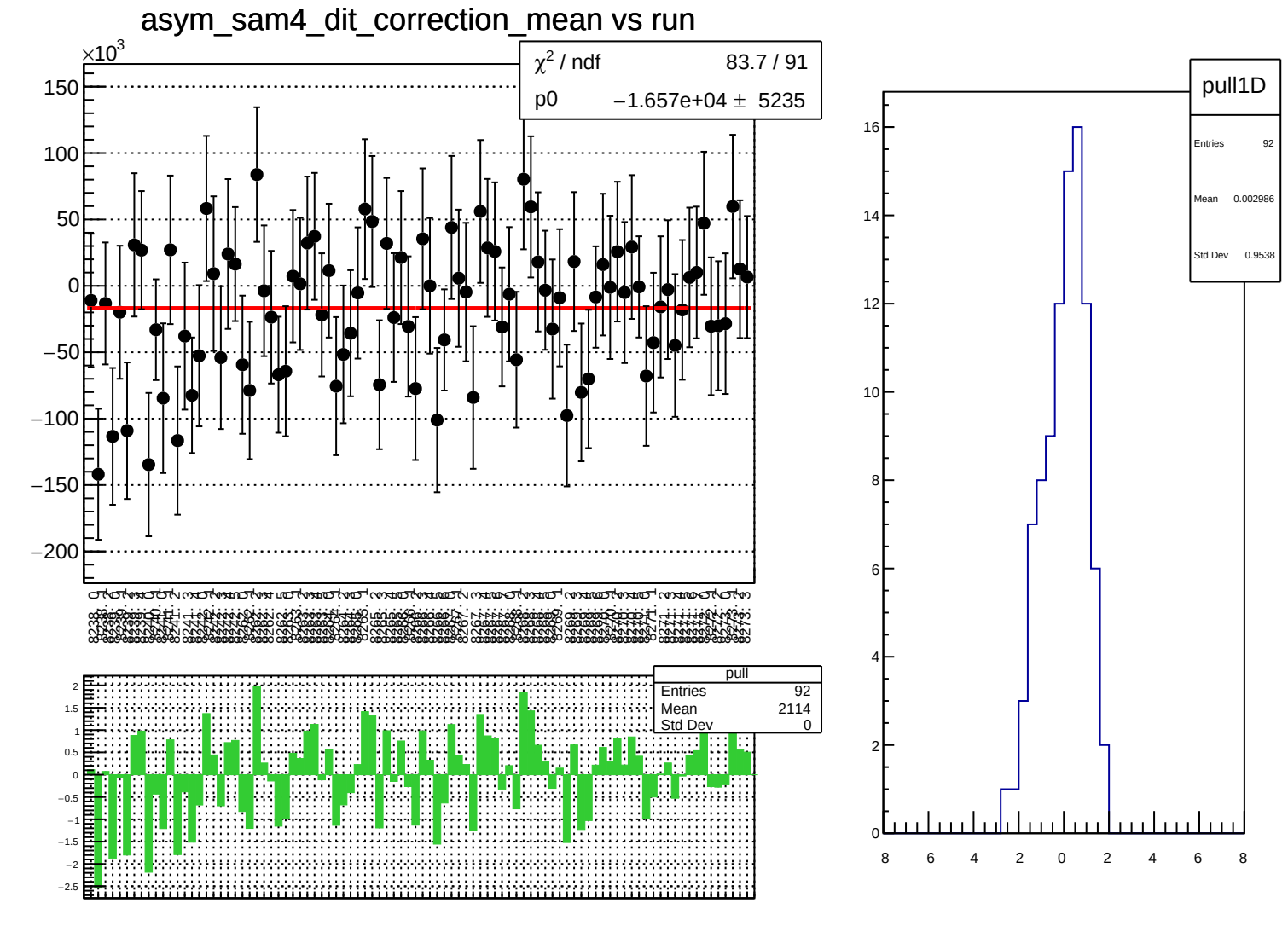

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.55 / 91
p0 −1.608e+04 ± 5156
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean 3445
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.001823
Std Dev 0.953
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

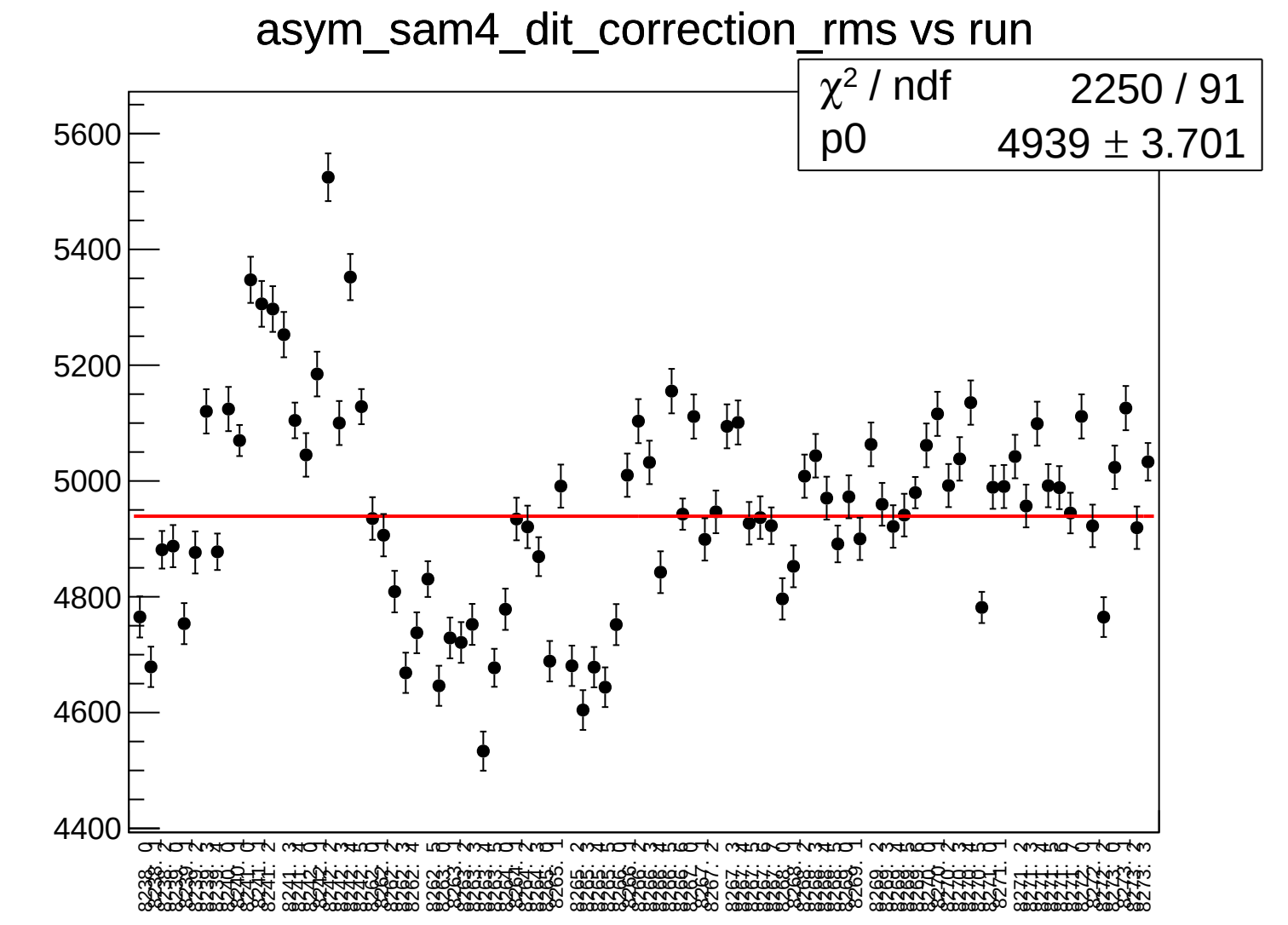

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 3223 / 91
p0 4864 ± 3.646
5600
5400
5200
5000
4800
4600
4400

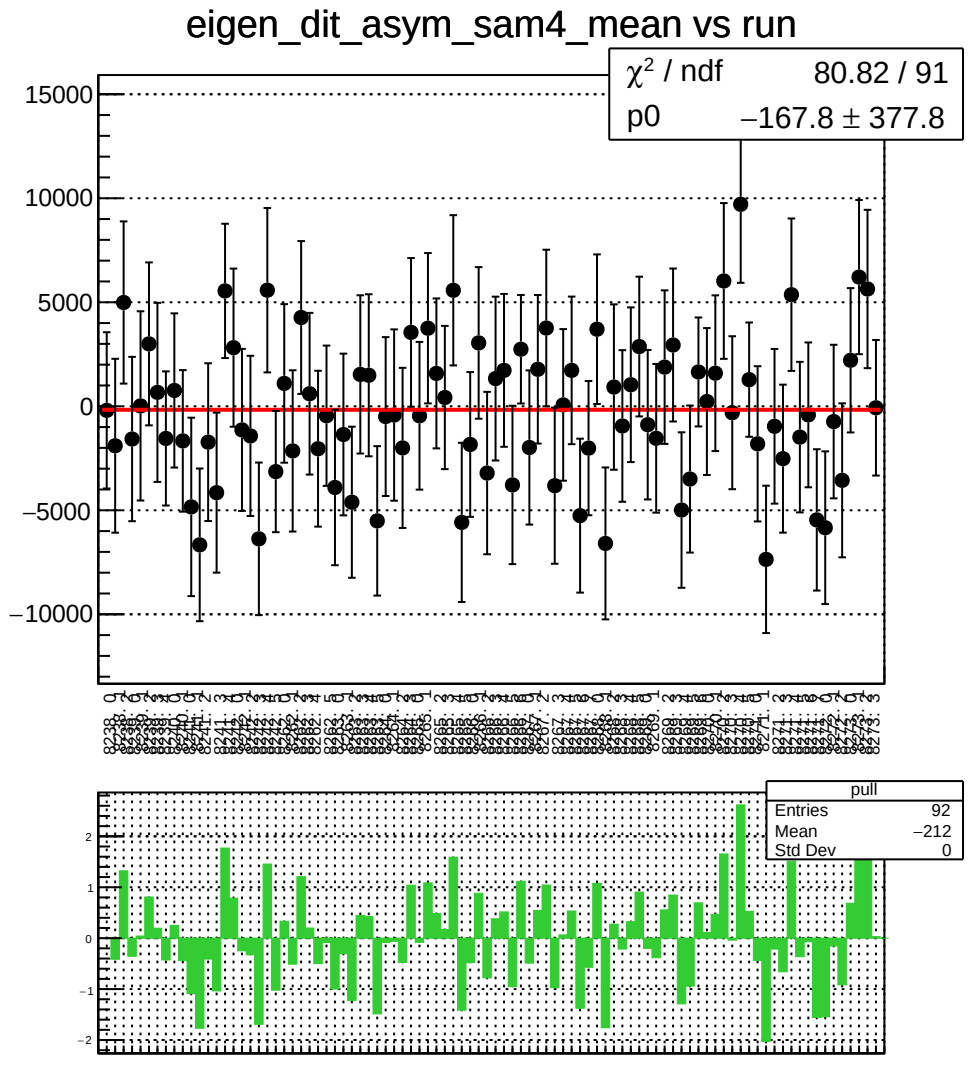

dit_asym_sam4_mean vs run
χ² / ndf 80.82 / 91
p0 −167.9 ± 377.8
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −212
Std Dev 0
2
1
0
−1
−2

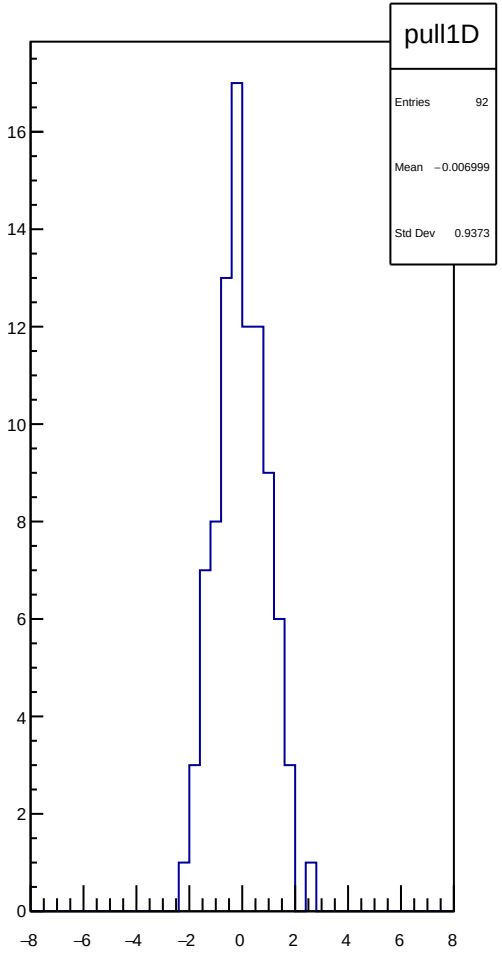

pull1D
Entries 92
Mean −0.006999
Std Dev 0.9373
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

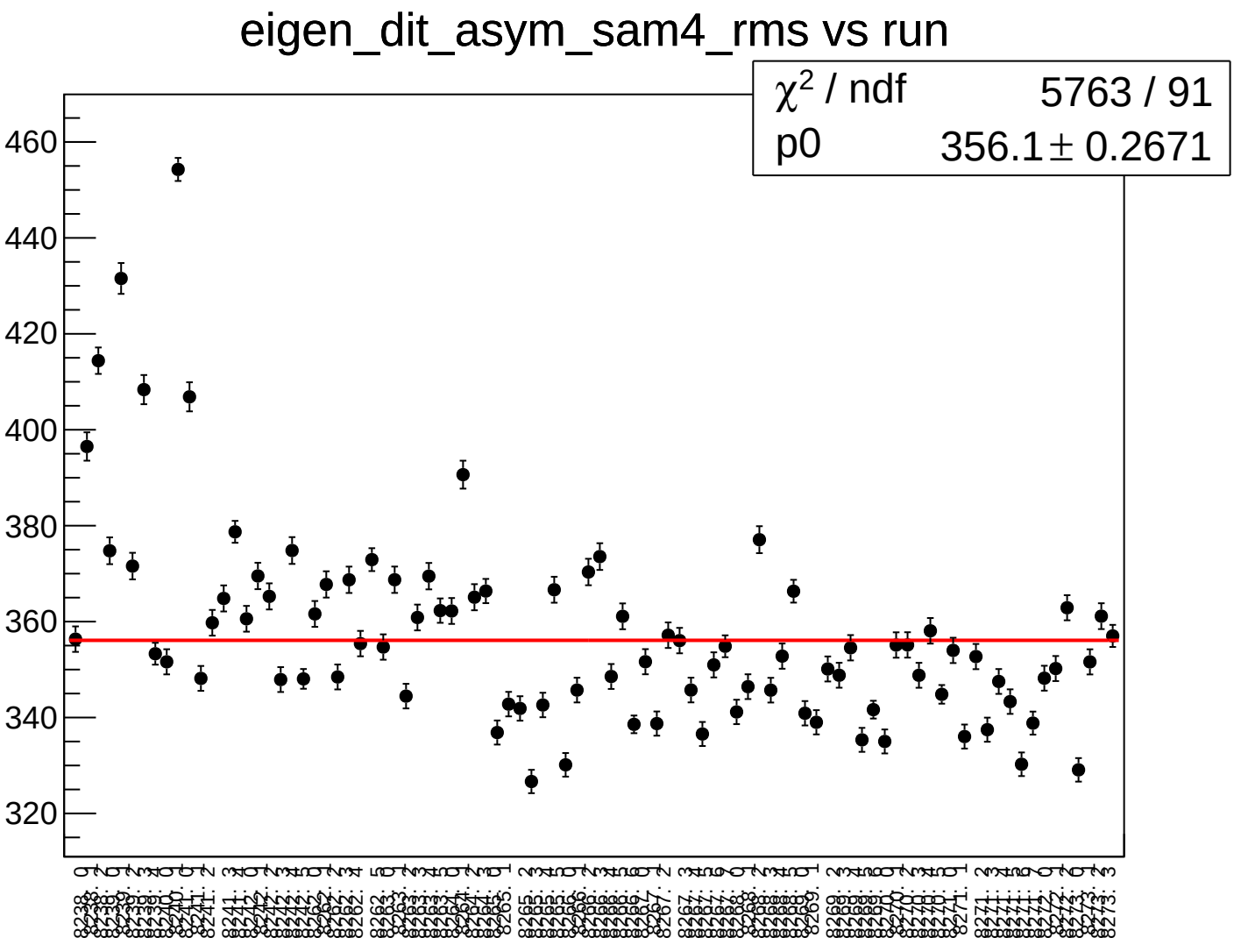

dit_asym_sam4_rms vs run
$\chi^2$ / ndf 5763 / 91
p0 356.1 ± 0.2671
460
440
420
400
380
360
340
320

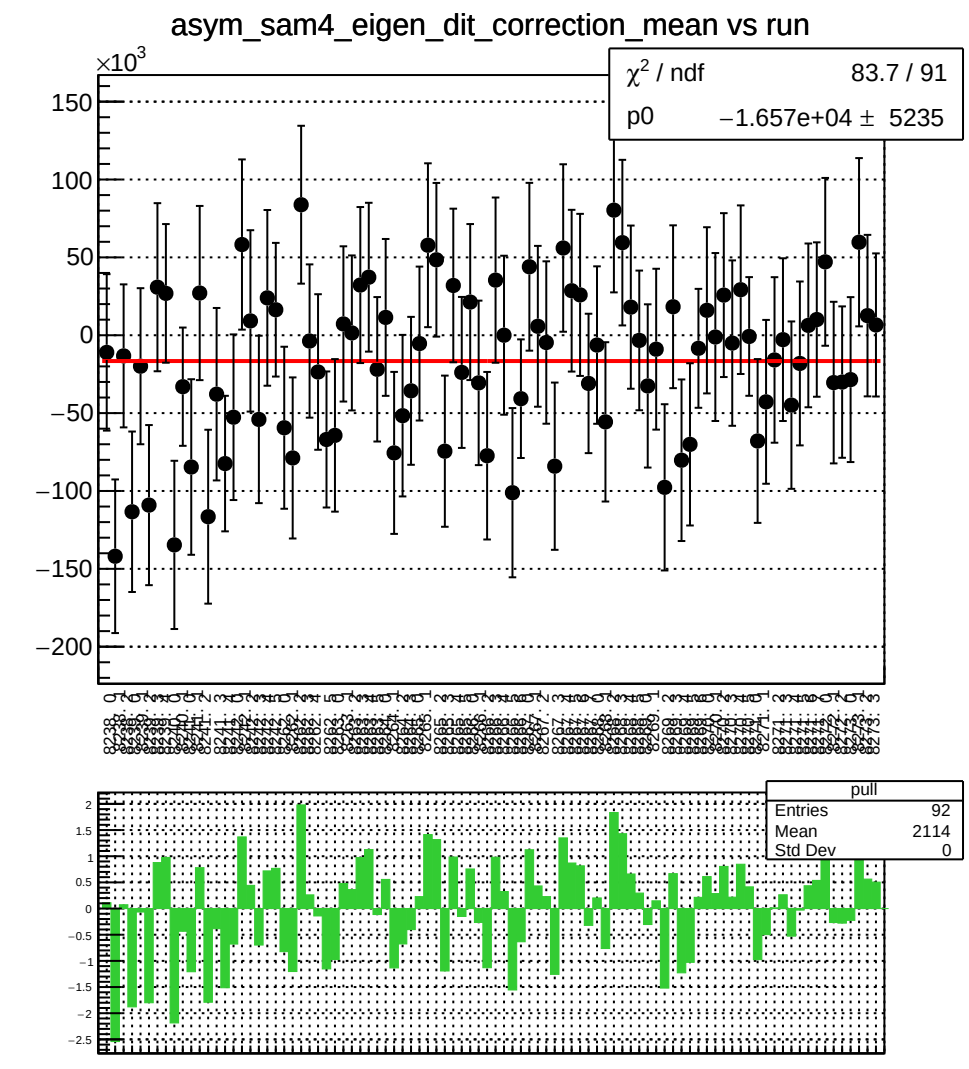

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 83.7 / 91
p0 −1.657e+04 ± 5235
pull
Entries 92
Mean 2114
Std Dev 0
pull1D
Entries 92
Mean 0.002986
Std Dev 0.9538

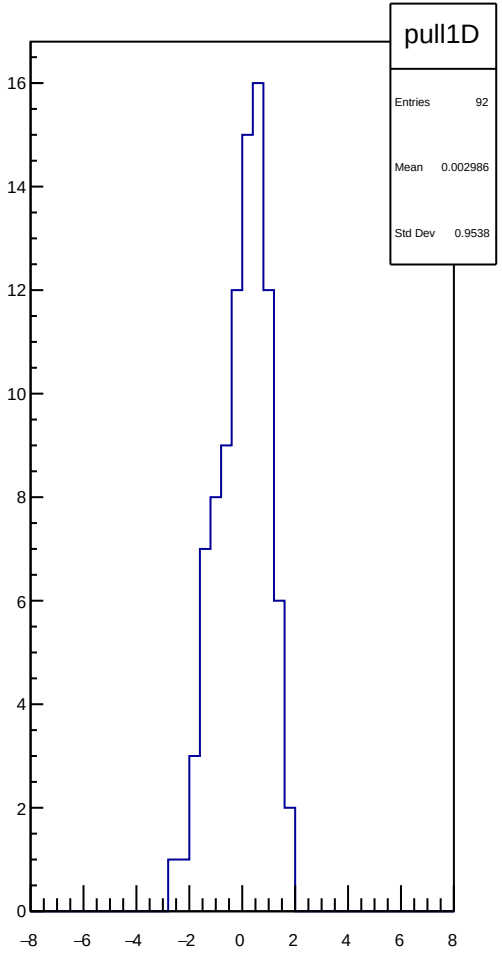

asym_sam4_dit_correction_rms vs run
χ² / ndf 2250 / 91
p0 4939 ± 3.701
5600
5400
5200
5000
4800
4600
4400

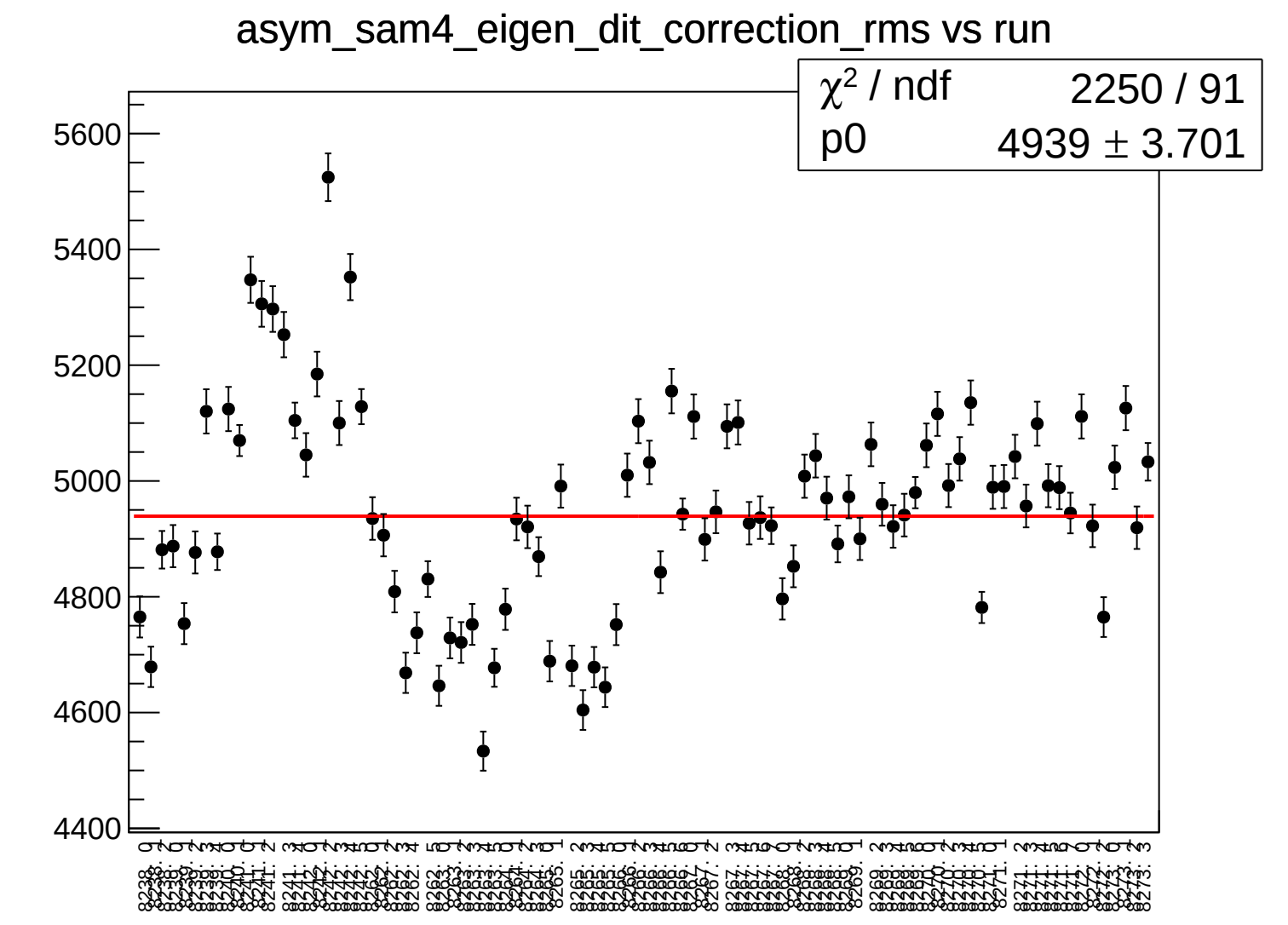

eigen_dit_asym_sam4_mean vs run
χ² / ndf 80.82 / 91
p0 −167.8 ± 377.8
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −212
Std Dev 0
2
1
0
−1
−2

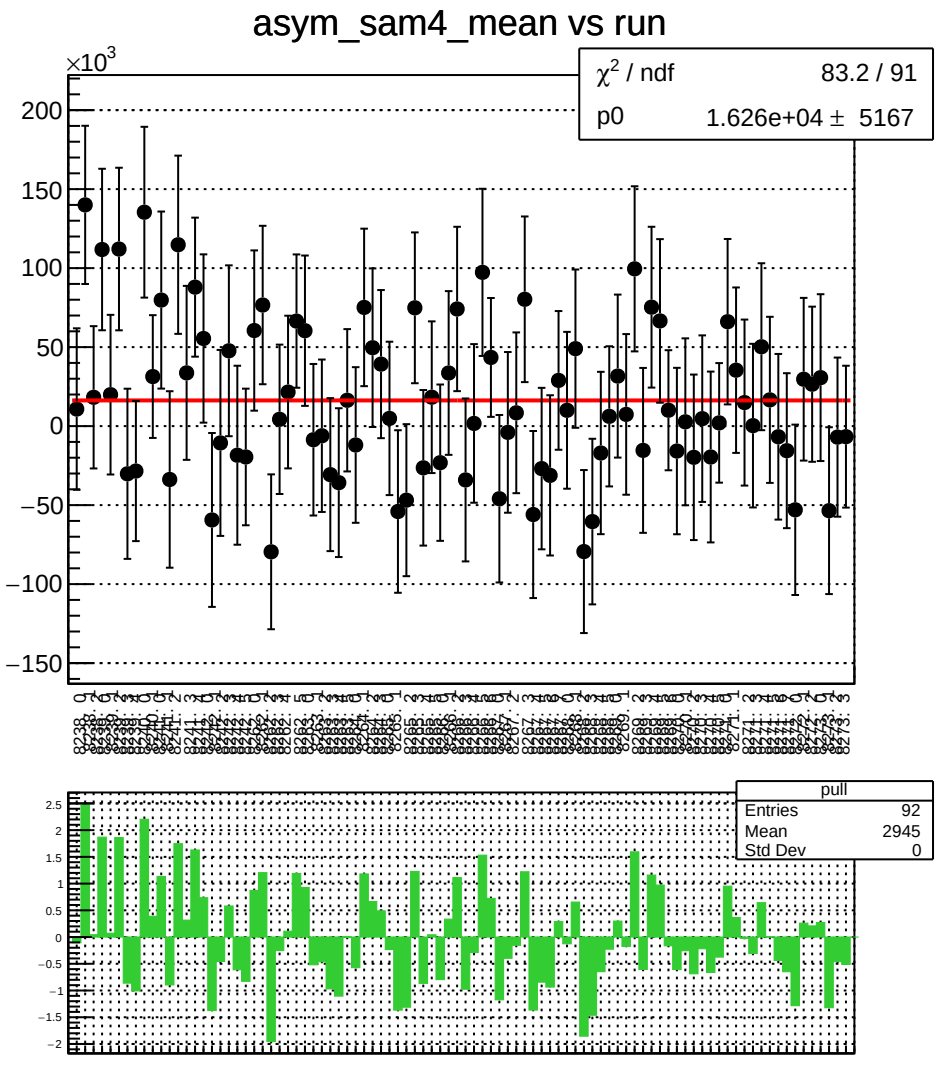

pull1D
Entries 92
Mean −0.006999
Std Dev 0.9373
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

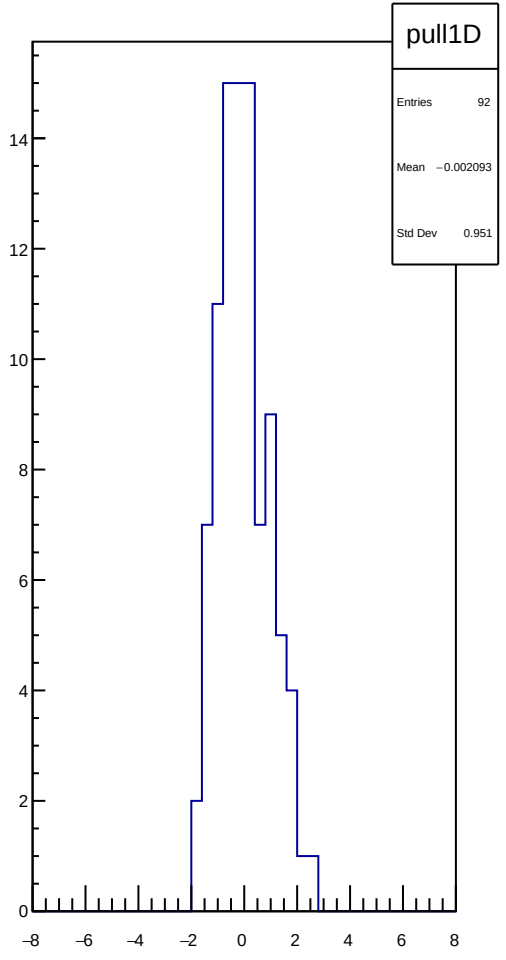

eigen_dit_asym_sam4_rms vs run
$\chi^2$ / ndf 5763 / 91
p0 356.1 ± 0.2671
460
440
420
400
380
360
340
320

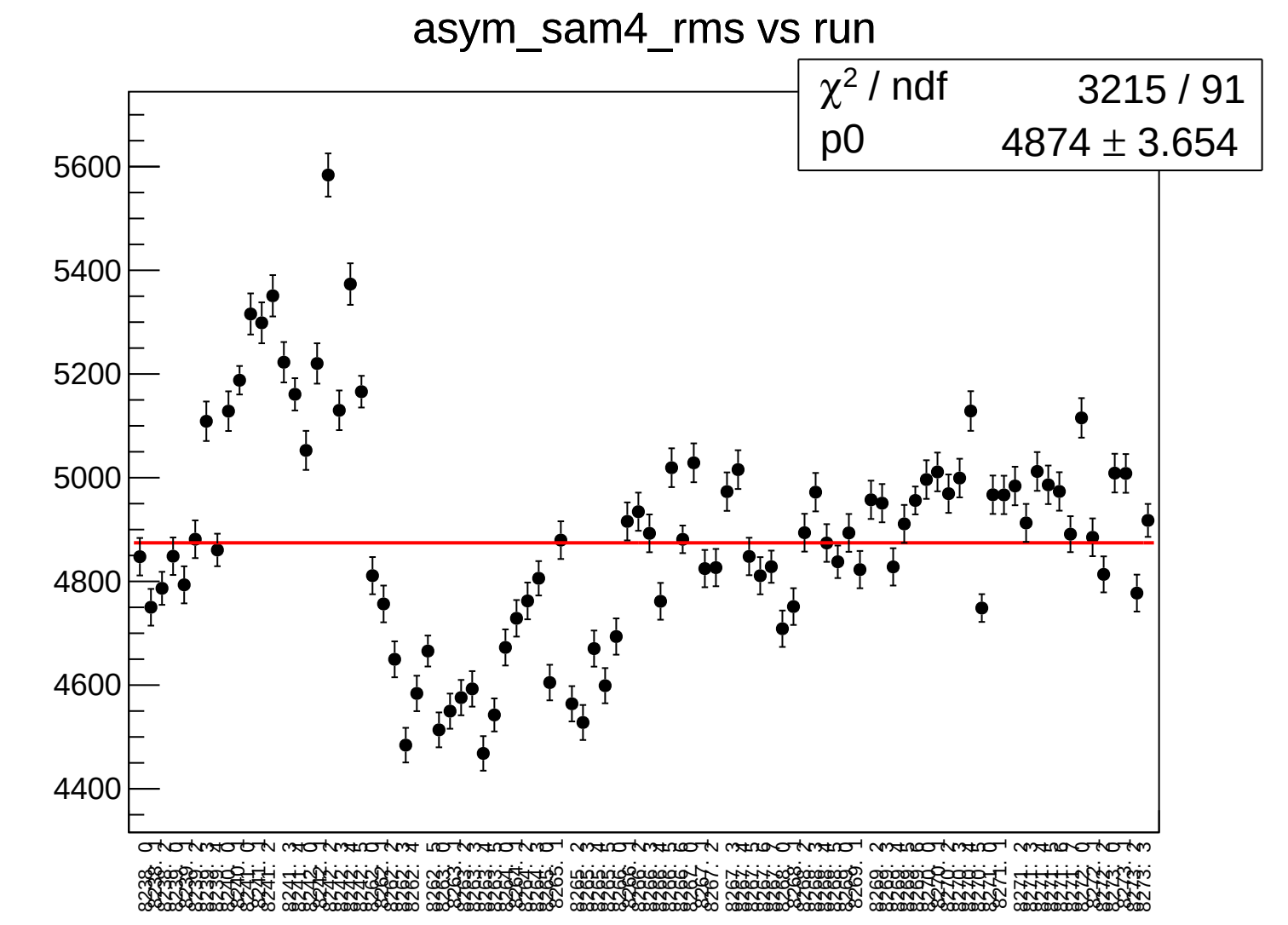

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.7 / 91
p0 −1.657e+04 ± 5235
pull
Entries 92
Mean 2114
Std Dev 0

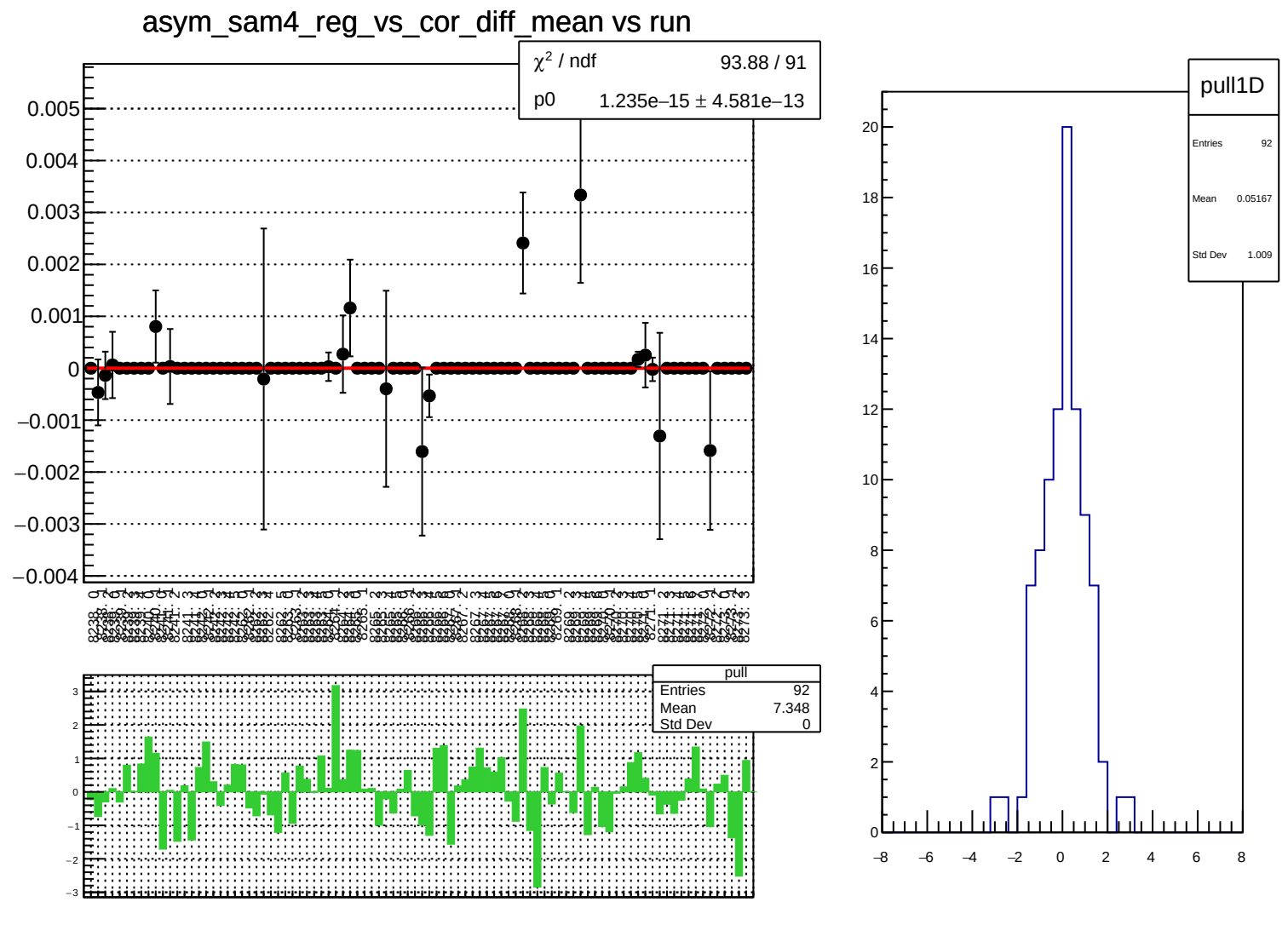

pull1D
Entries 92
Mean 0.002986
Std Dev 0.9538

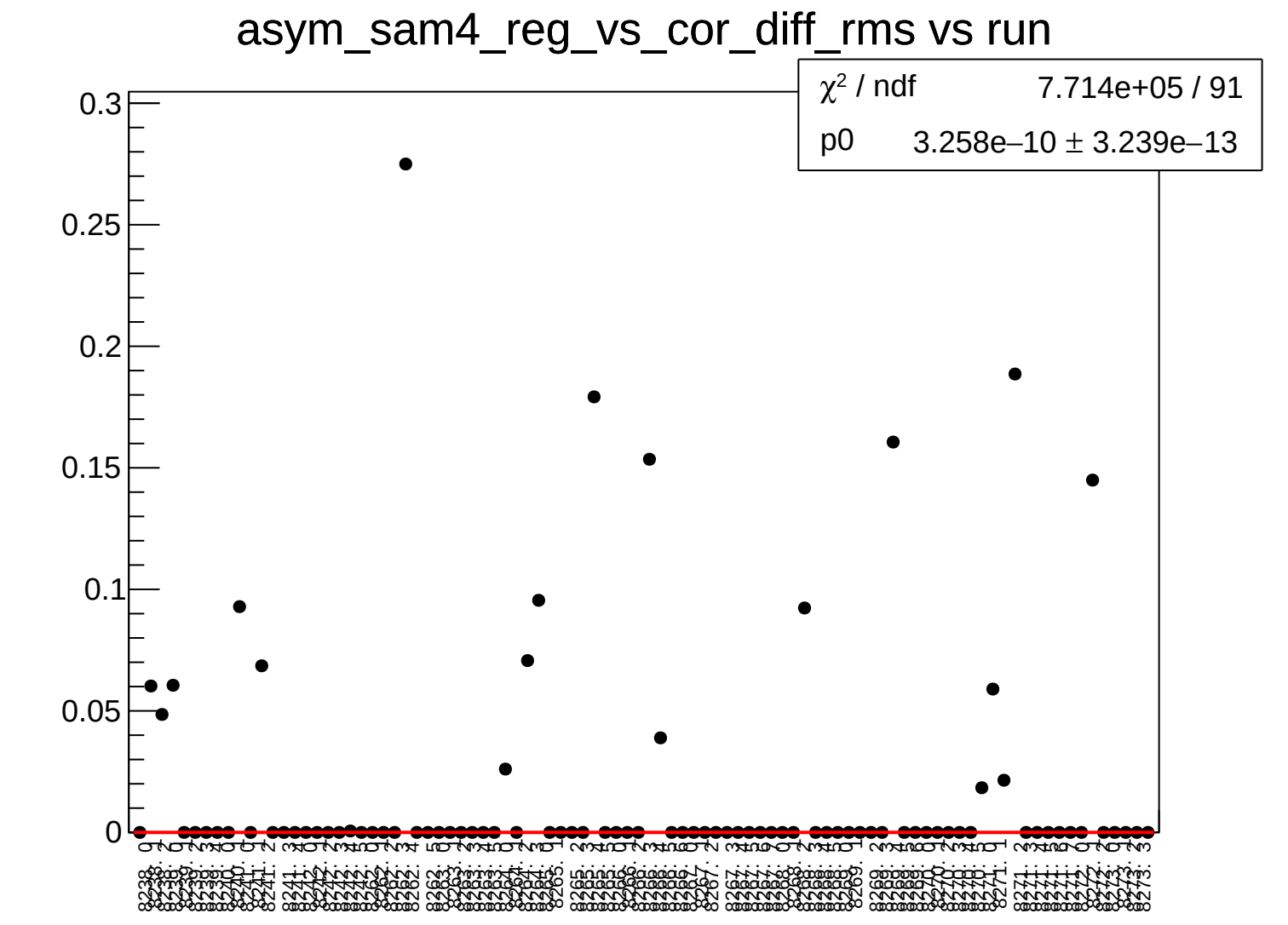

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 2250 / 91
p0 4939 ± 3.701
5600
5400
5200
5000
4800
4600
4400

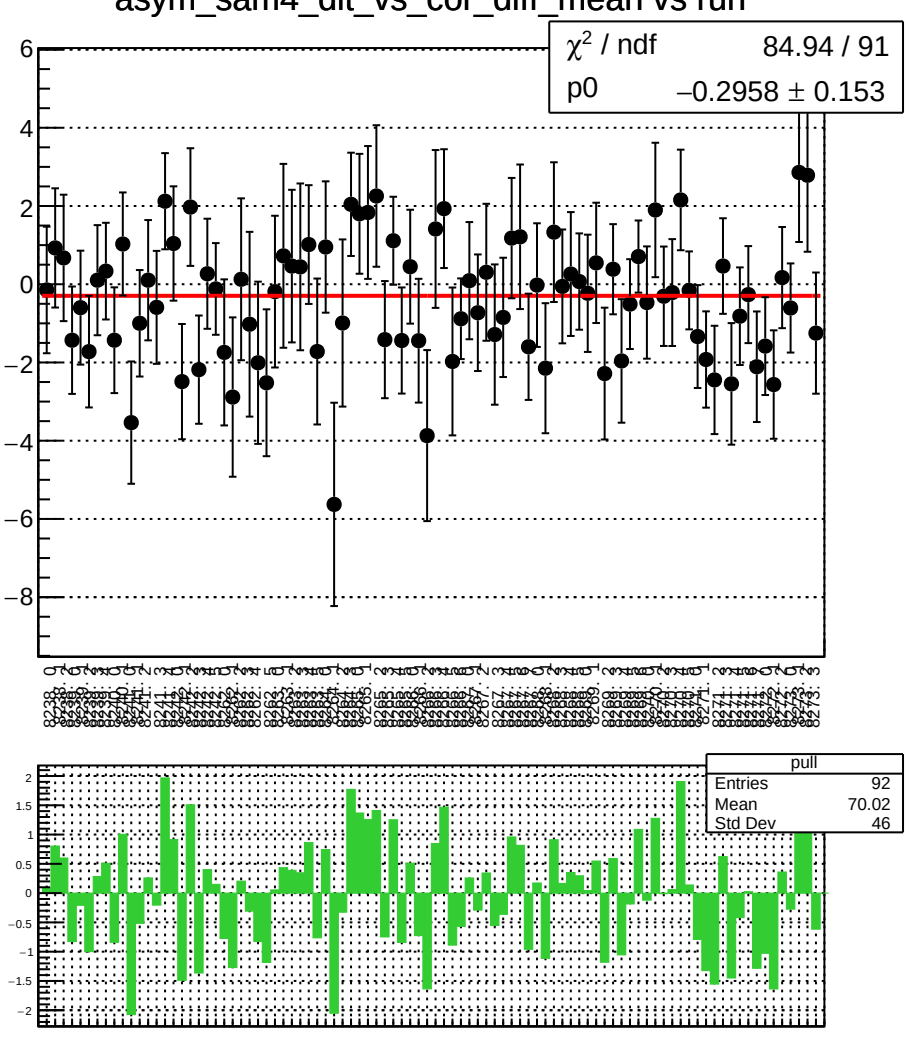

asym_sam4_mean vs run
×10^3
χ² / ndf 83.2 / 91
p0 1.626e+04 ± 5167
pull
Entries 92
Mean 2945
Std Dev 0

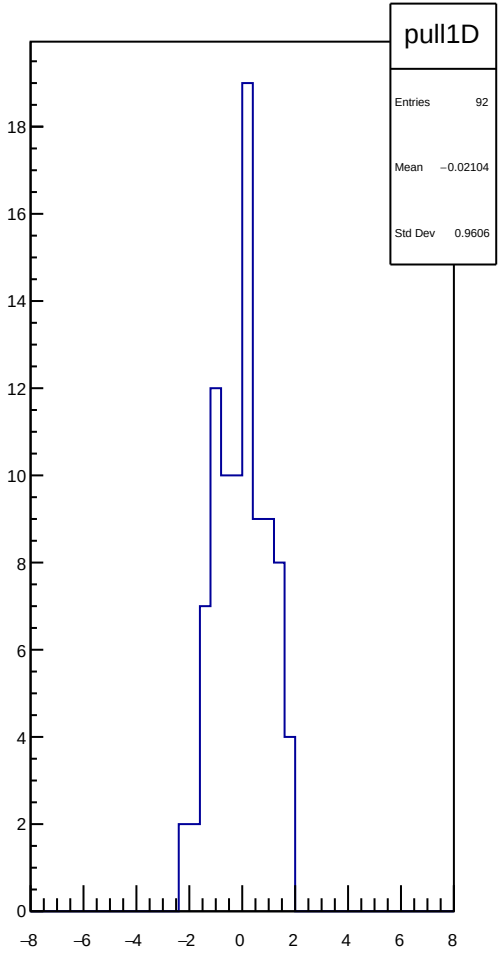

pull1D
Entries 92
Mean −0.002093
Std Dev 0.951

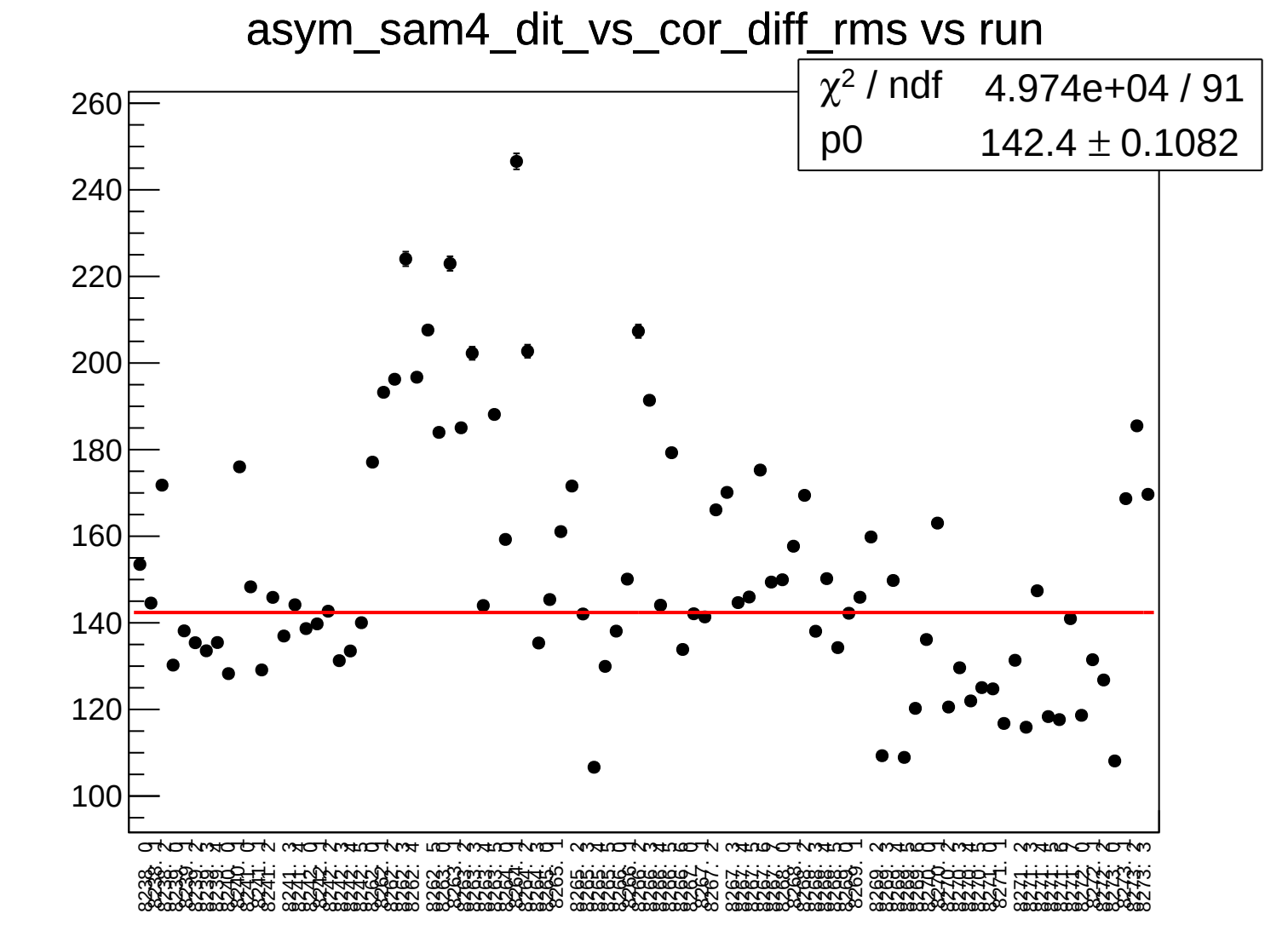

asym_sam4_rms vs run
χ² / ndf 3215 / 91
p0 4874 ± 3.654
5600
5400
5200
5000
4800
4600
4400

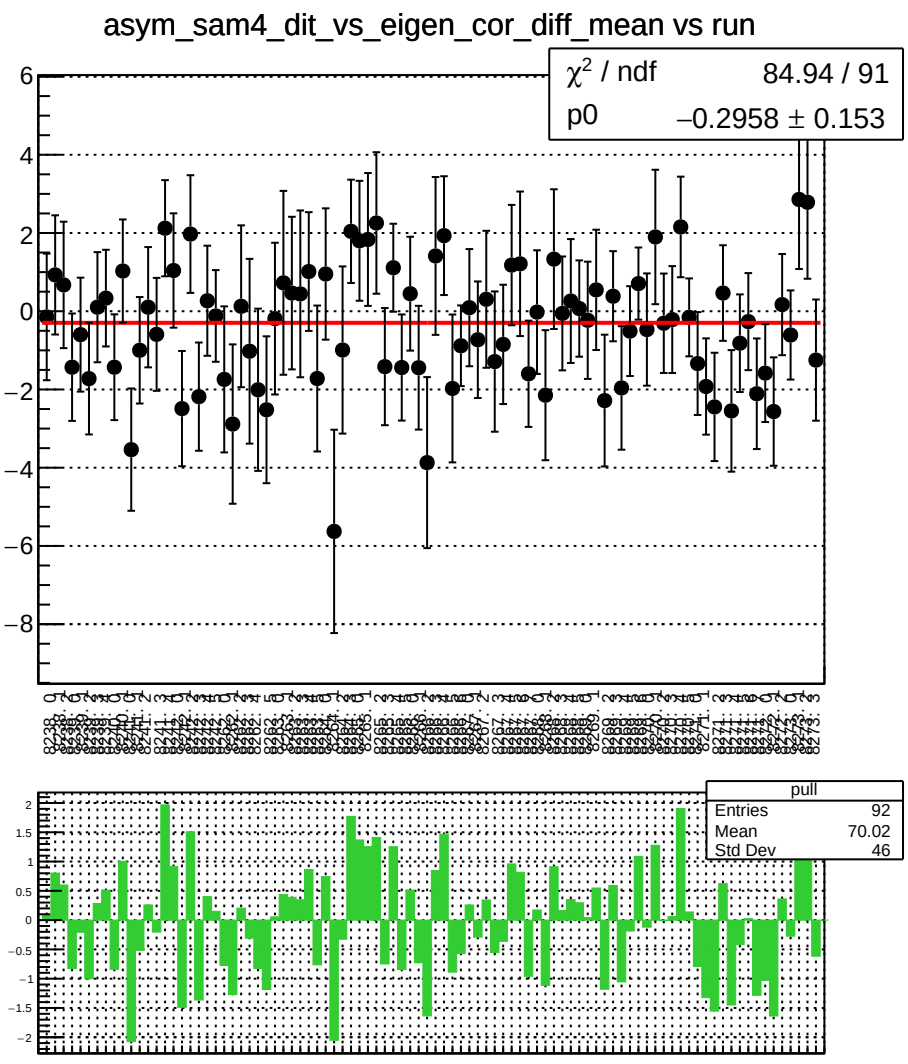

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 93.88 / 91
p0 1.235e−15 ± 4.581e−13
pull
Entries 92
Mean 7.348
Std Dev 0
pull1D
Entries 92
Mean 0.05167
Std Dev 1.009

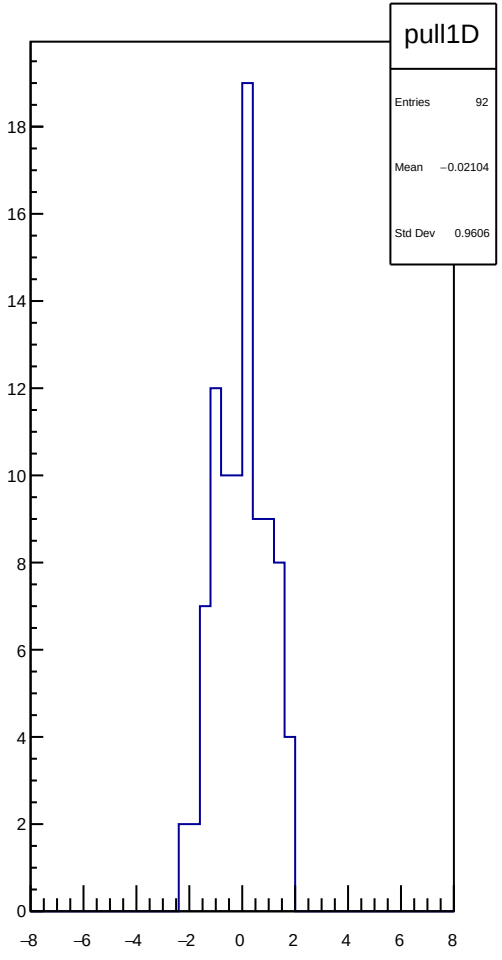

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 7.714e+05 / 91
p0 3.258e−10 ± 3.239e−13
0.3
0.25
0.2
0.15
0.1
0.05
0

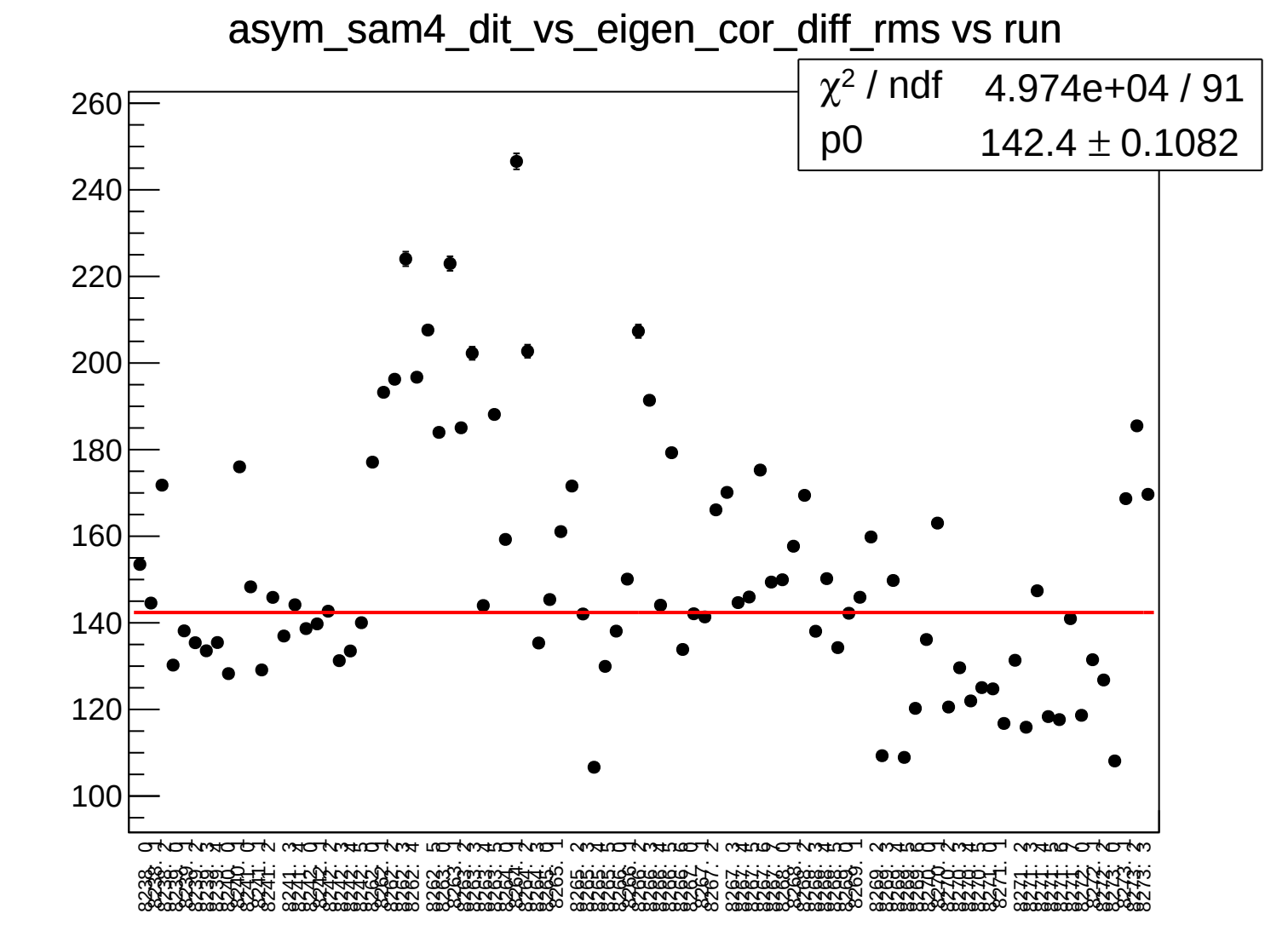

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 84.94 / 91
p0 −0.2958 ± 0.153
pull
Entries 92
Mean 70.02
Std Dev 46

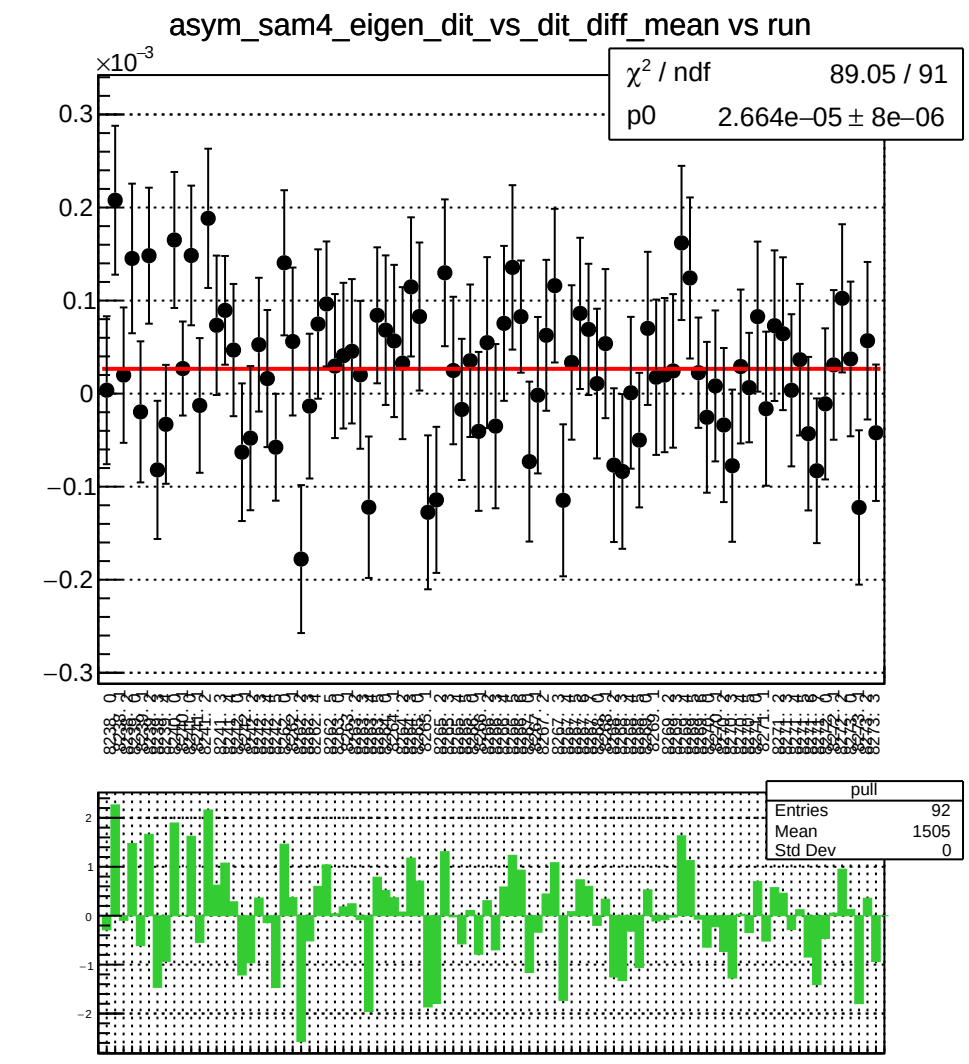

pull1D
Entries 92
Mean −0.02104
Std Dev 0.9606

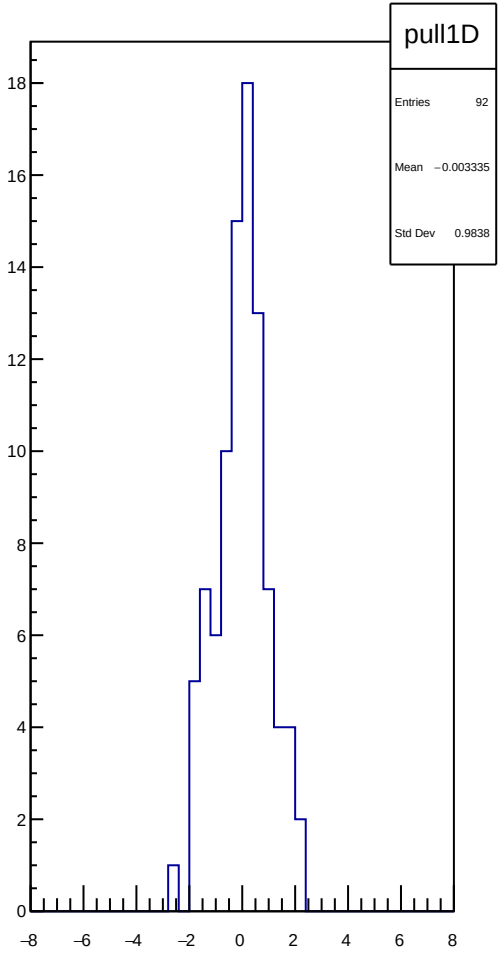

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 4.974e+04 / 91
p0 142.4 ± 0.1082
260
240
220
200
180
160
140
120
100

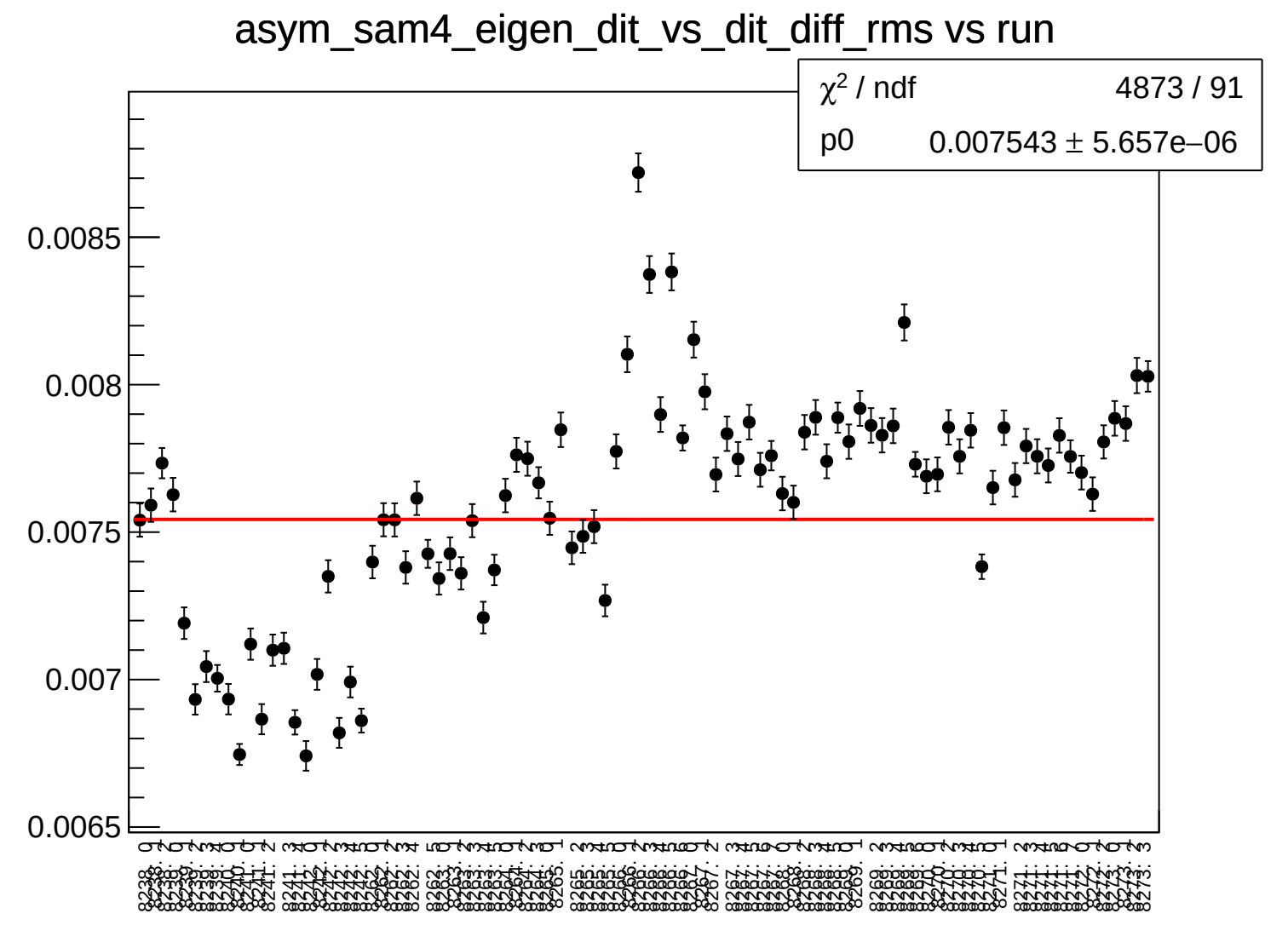

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.94 / 91
p0 −0.2958 ± 0.153
pull
Entries 92
Mean 70.02
Std Dev 46

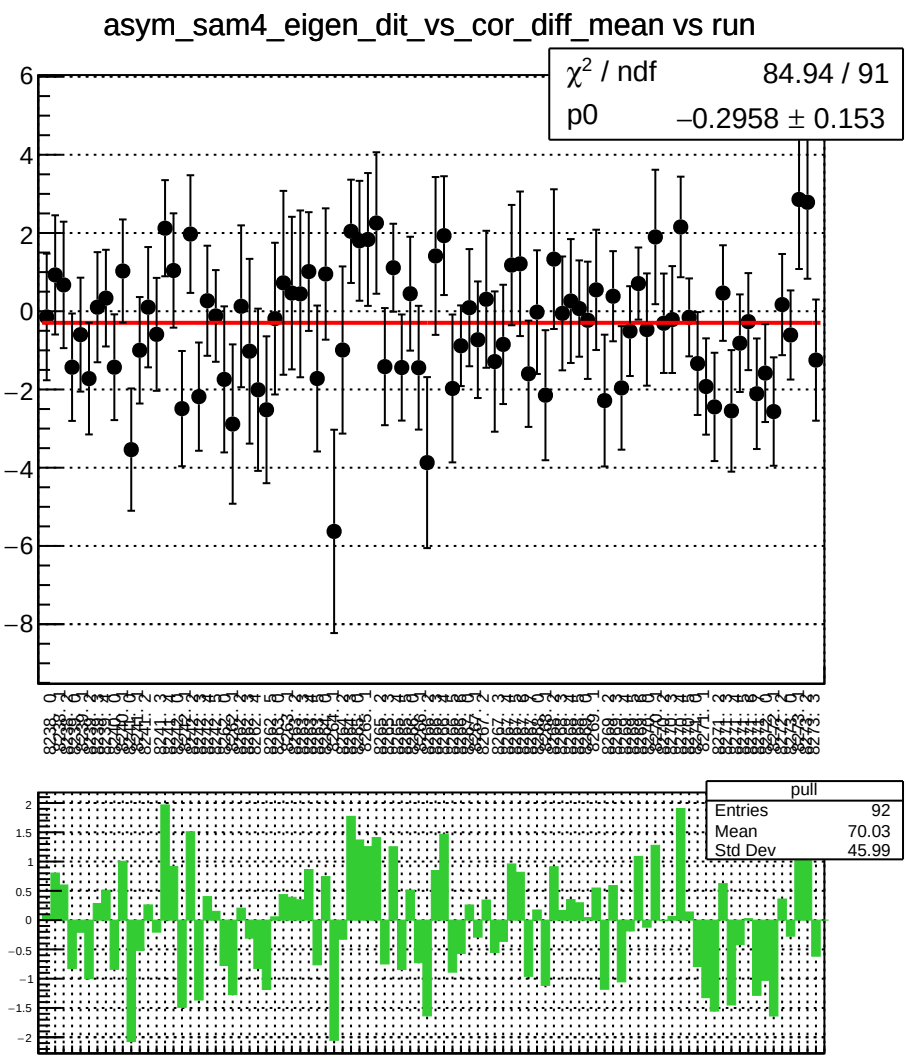

pull1D
Entries 92
Mean −0.02104
Std Dev 0.9606

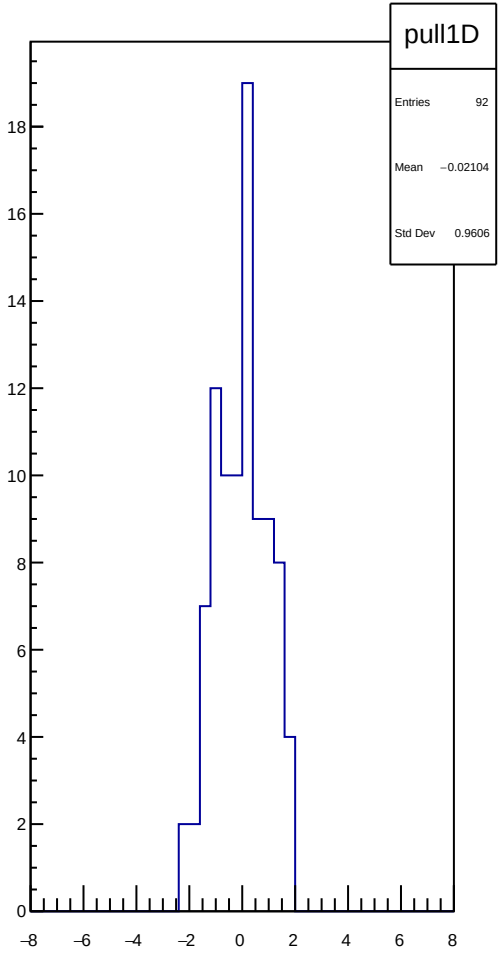

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.974e+04 / 91
p0 142.4 ± 0.1082
260
240
220
200
180
160
140
120
100

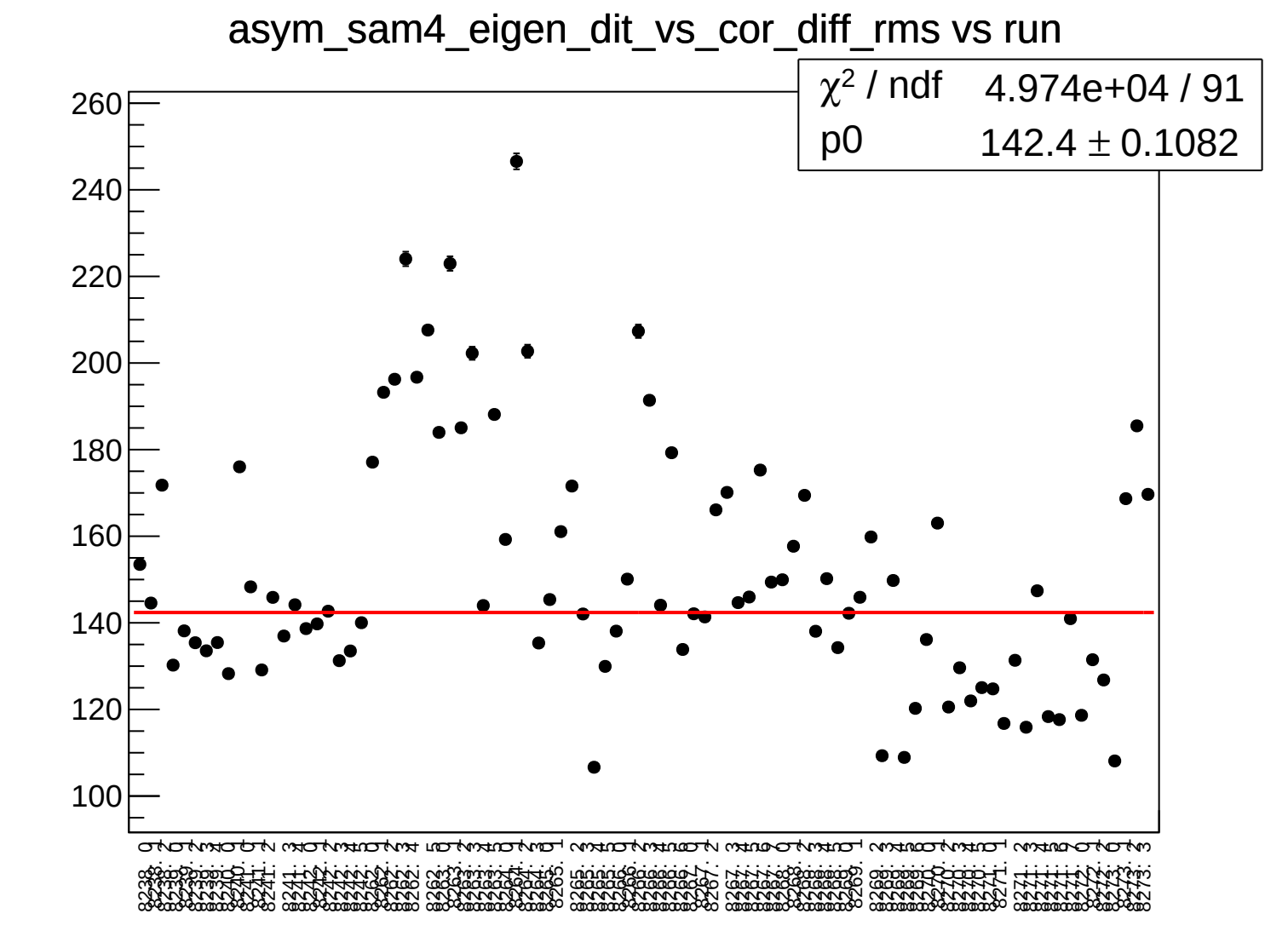

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.05 / 91
p0 2.664e−05 ± 8e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 92
Mean 1505
Std Dev 0
2
1
0
−1
−2

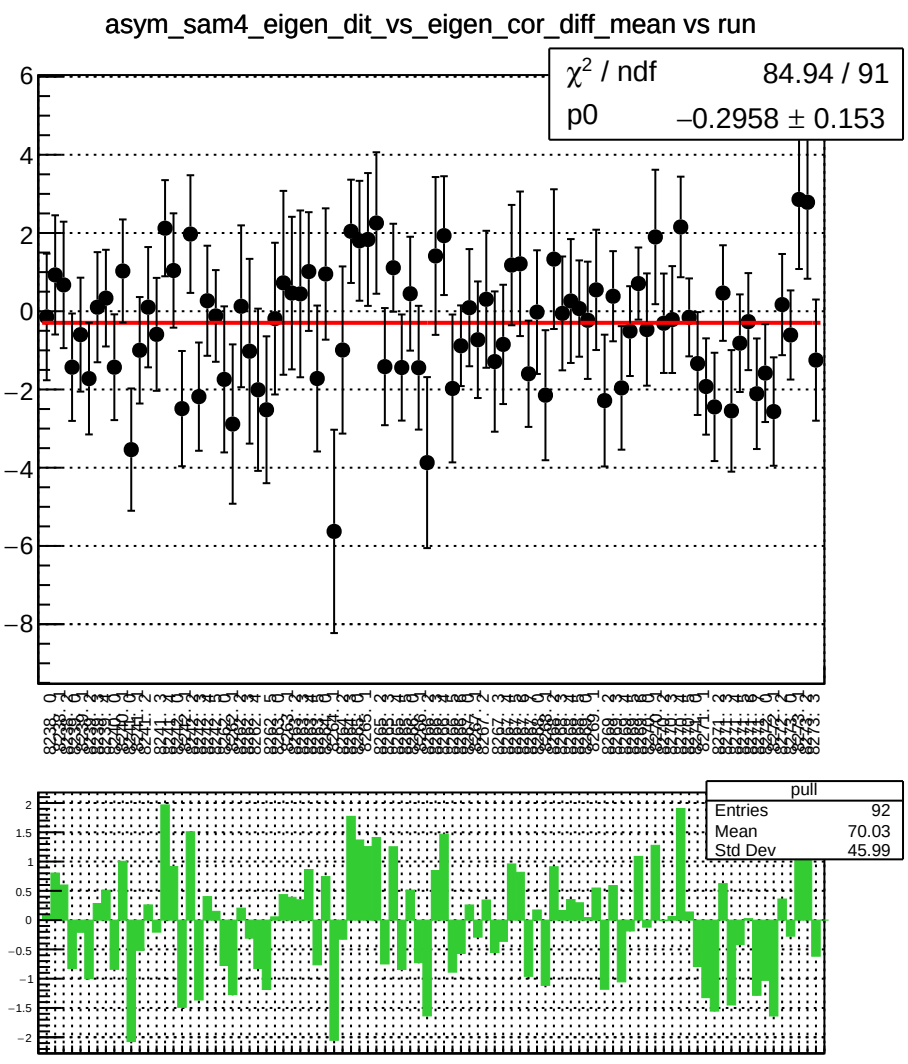

pull1D
Entries 92
Mean −0.003335
Std Dev 0.9838
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

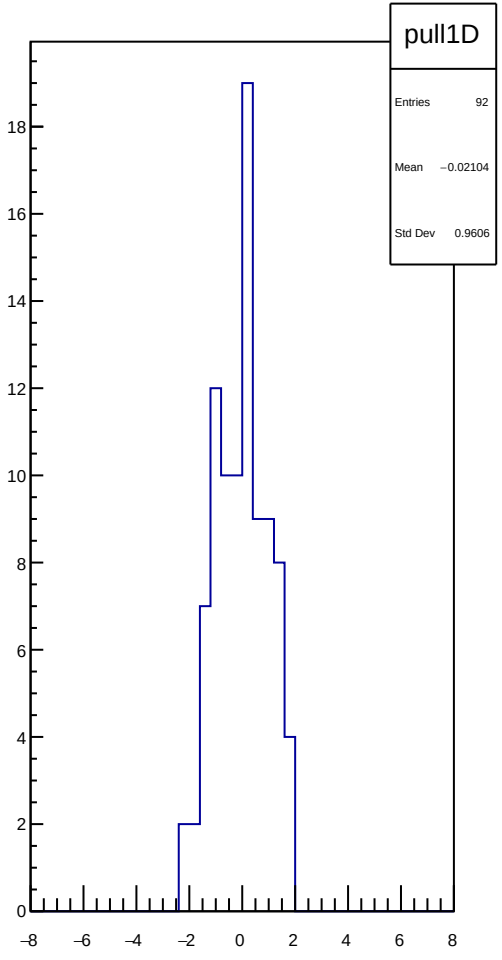

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4873 / 91
p0 0.007543 ± 5.657e−06
0.0085
0.008
0.0075
0.007
0.0065

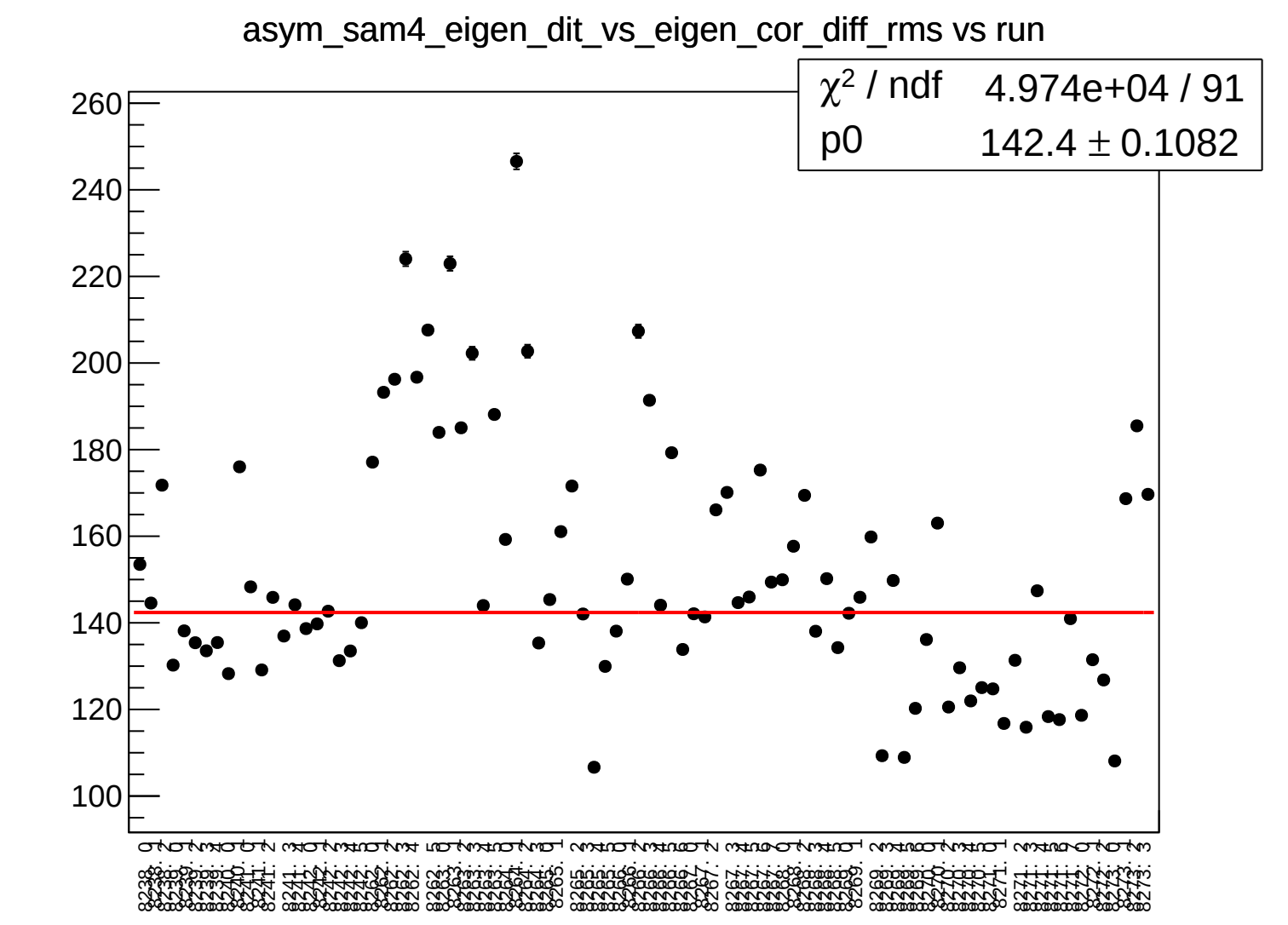

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.94 / 91
p0 −0.2958 ± 0.153
pull
Entries 92
Mean 70.03
Std Dev 45.99

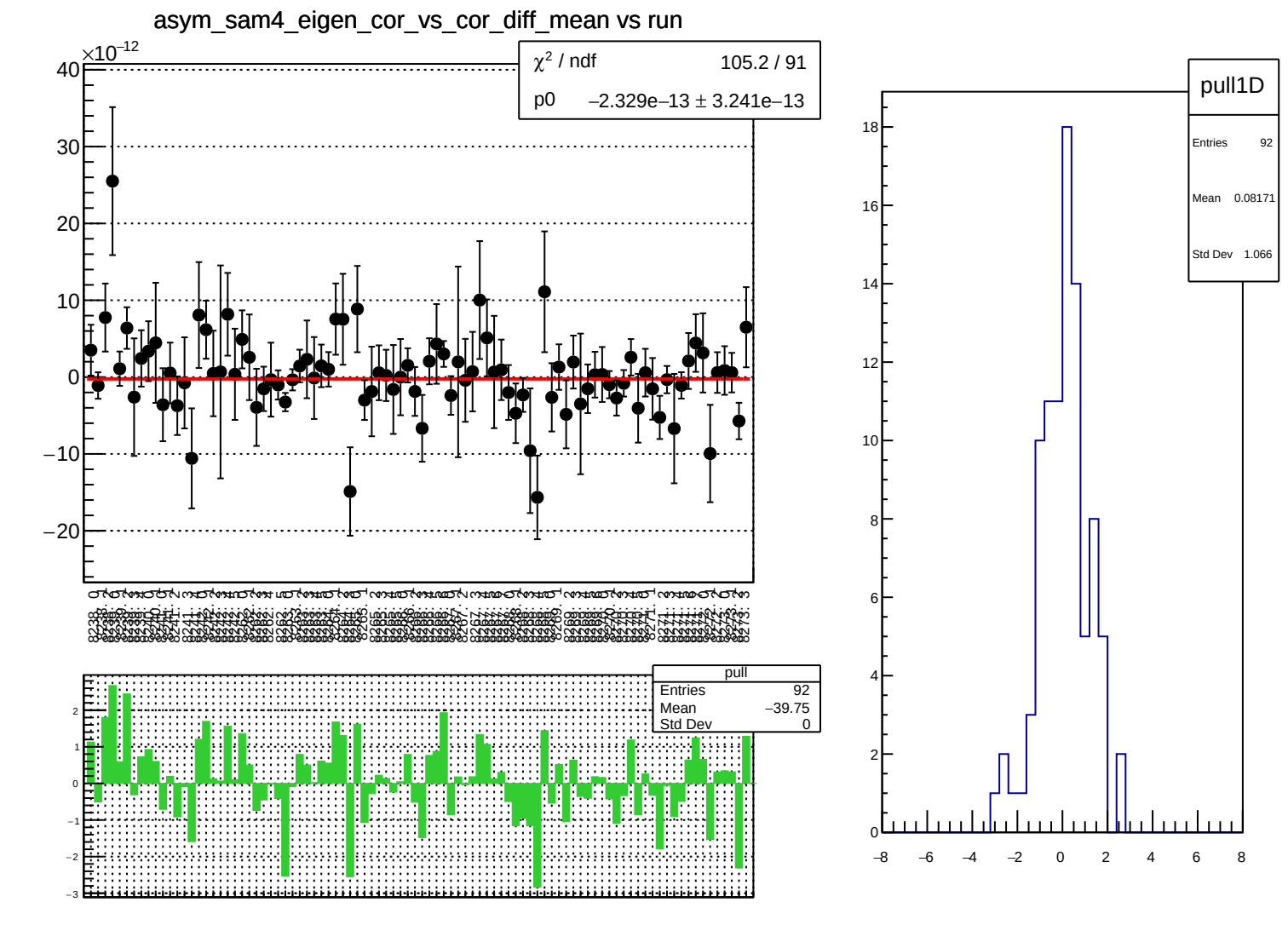

pull1D
Entries 92
Mean −0.02104
Std Dev 0.9606

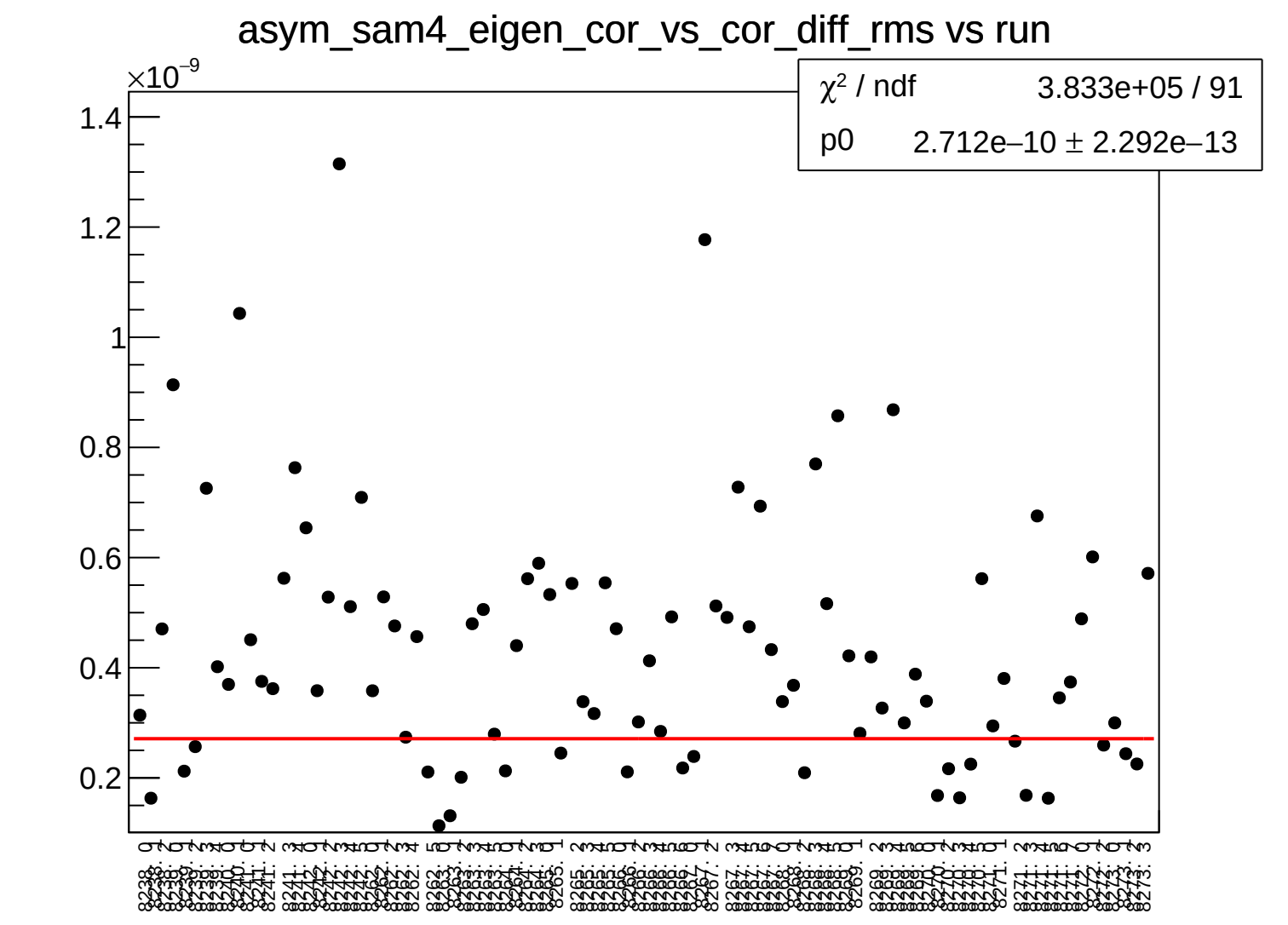

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.974e+04 / 91
p0 142.4 ± 0.1082
260
240
220
200
180
160
140
120
100

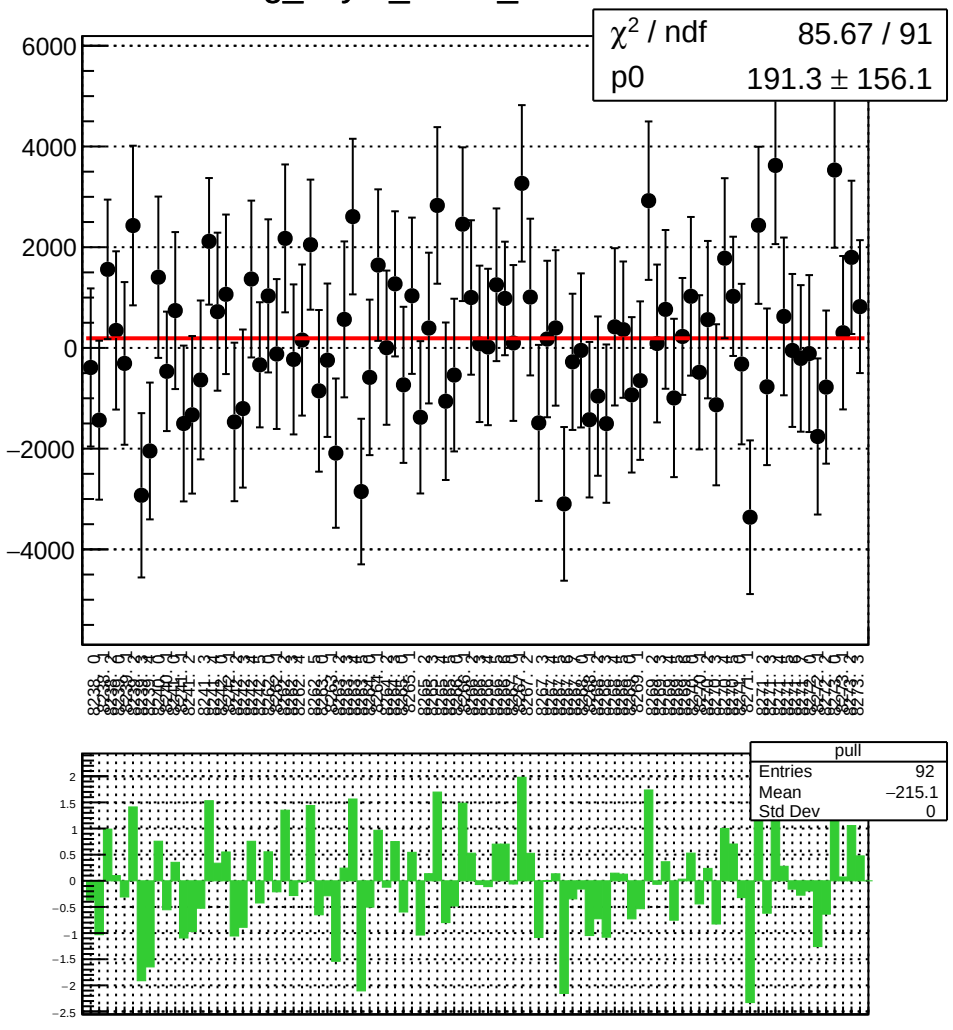

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.94 / 91
p0 −0.2958 ± 0.153
pull
Entries 92
Mean 70.03
Std Dev 45.99

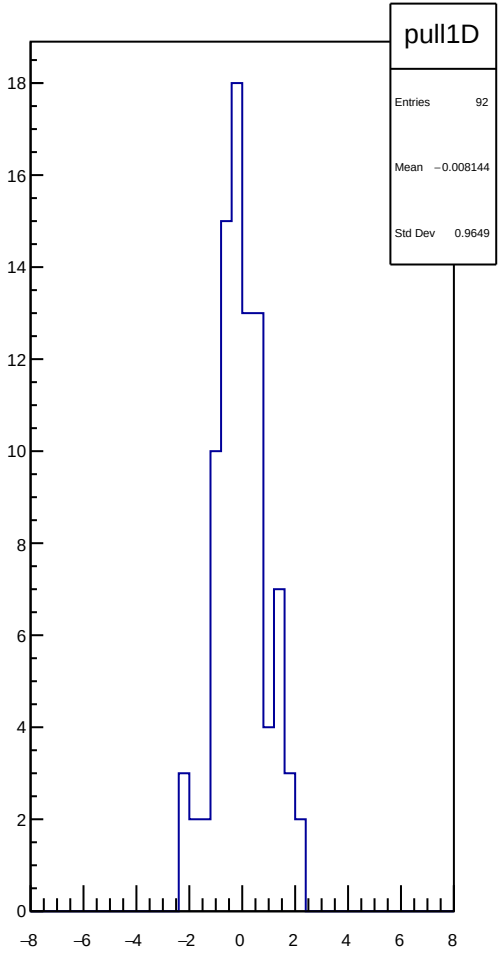

pull1D
Entries 92
Mean −0.02104
Std Dev 0.9606

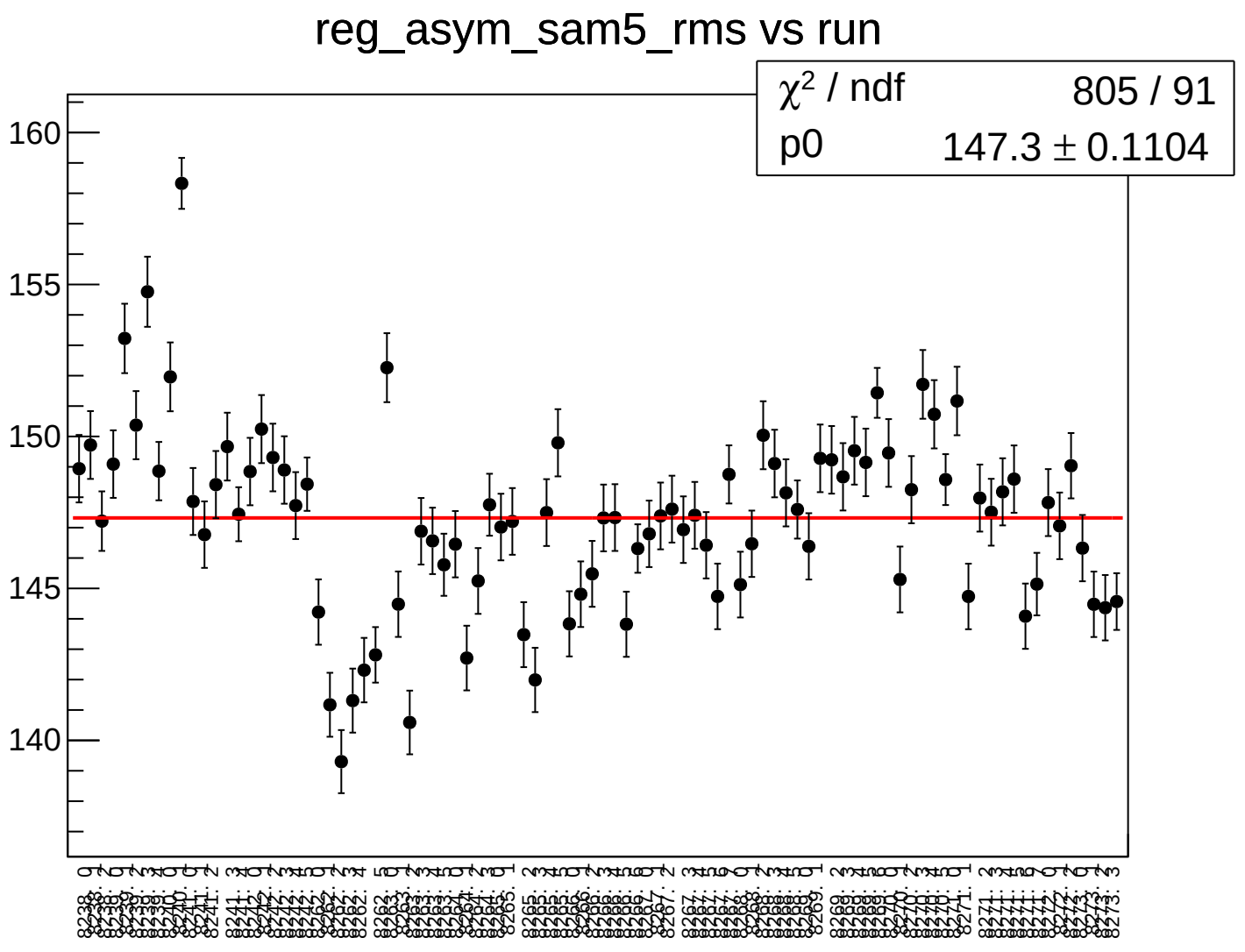

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.974e+04 / 91
p0 142.4 ± 0.1082
260
240
220
200
180
160
140
120
100

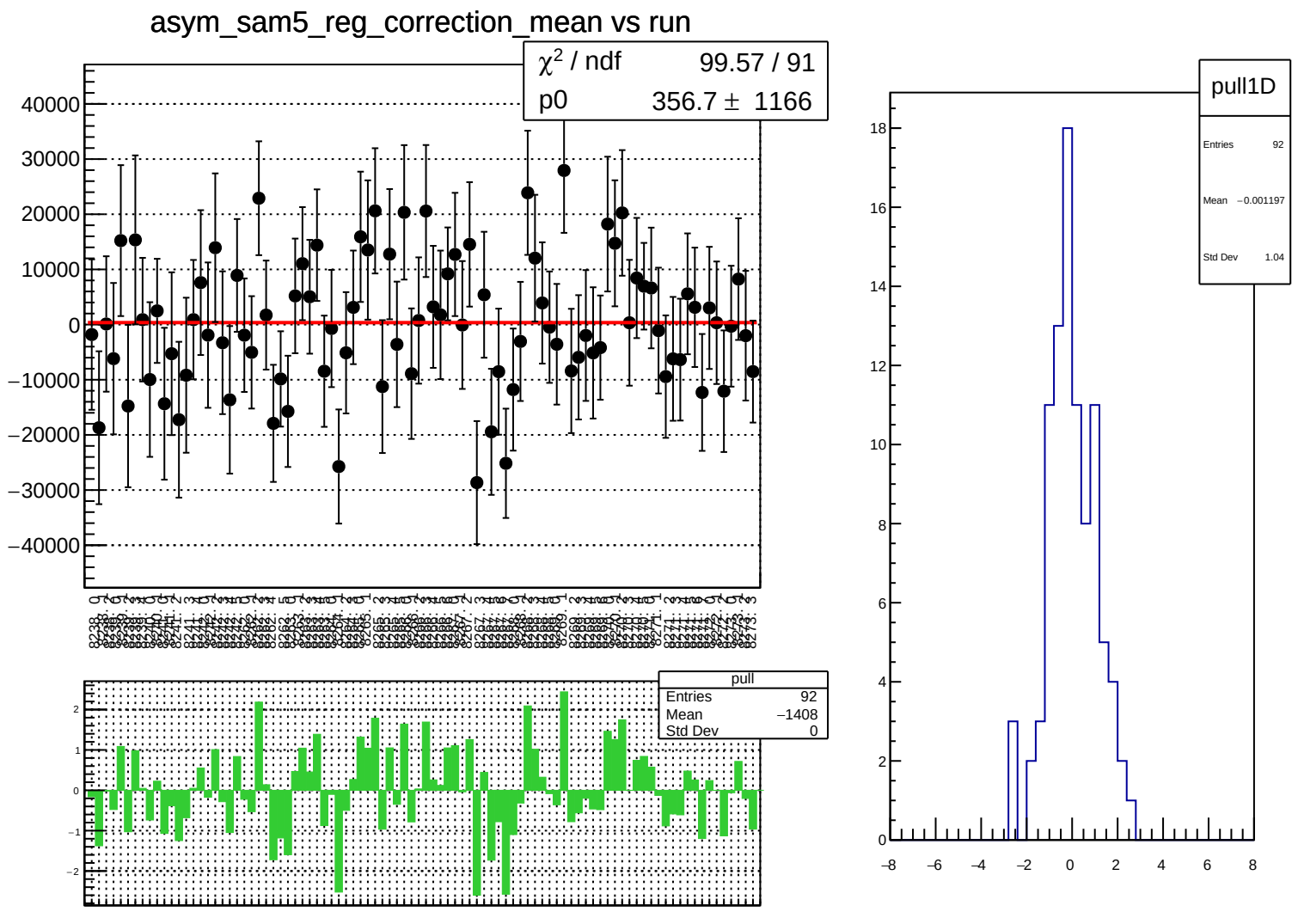

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.2 / 91
p0 −2.329e−13 ± 3.241e−13
pull
Entries 92
Mean −39.75
Std Dev 0
pull1D
Entries 92
Mean 0.08171
Std Dev 1.066

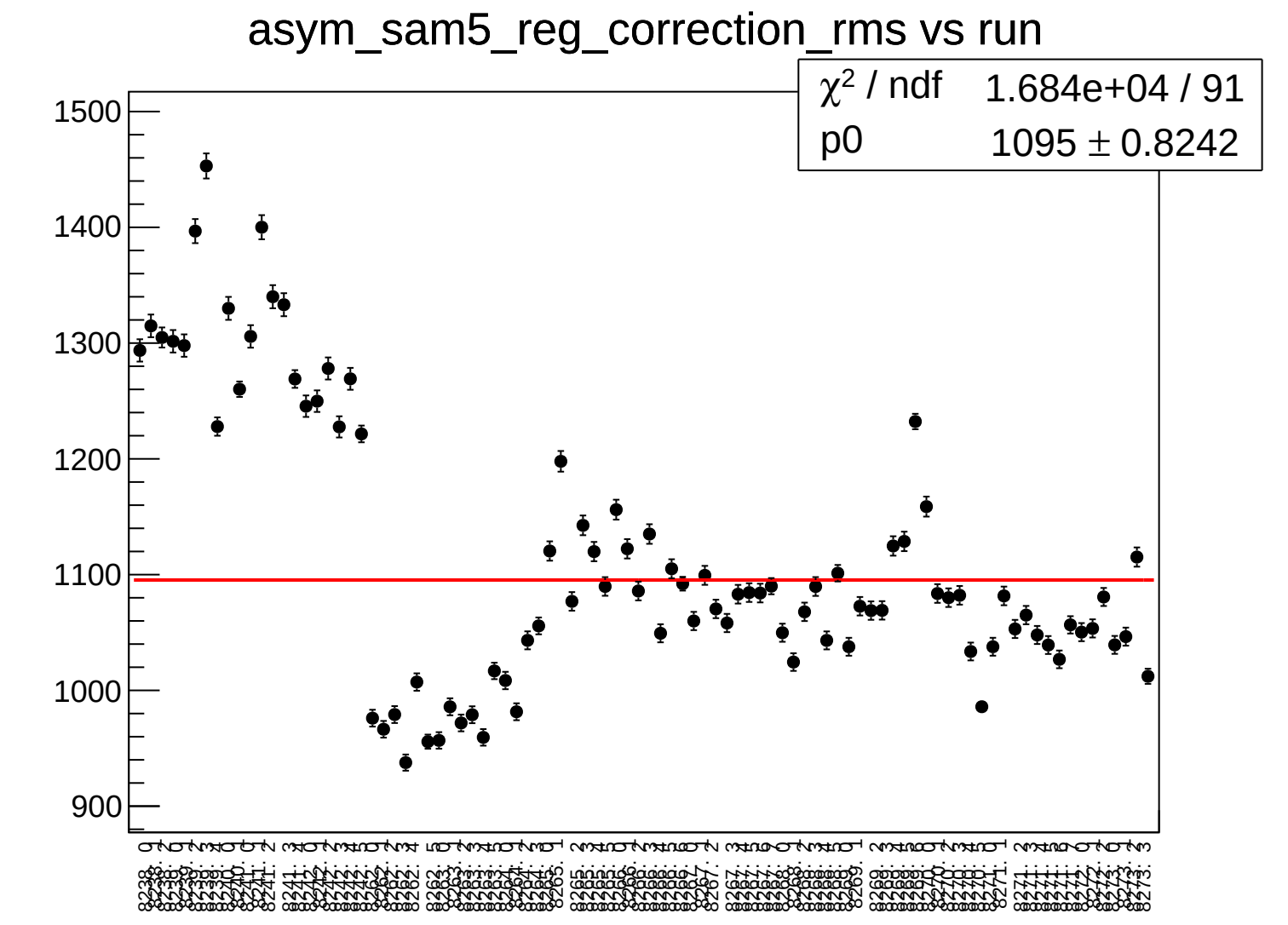

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.833e+05 / 91
p0 2.712e−10 ± 2.292e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

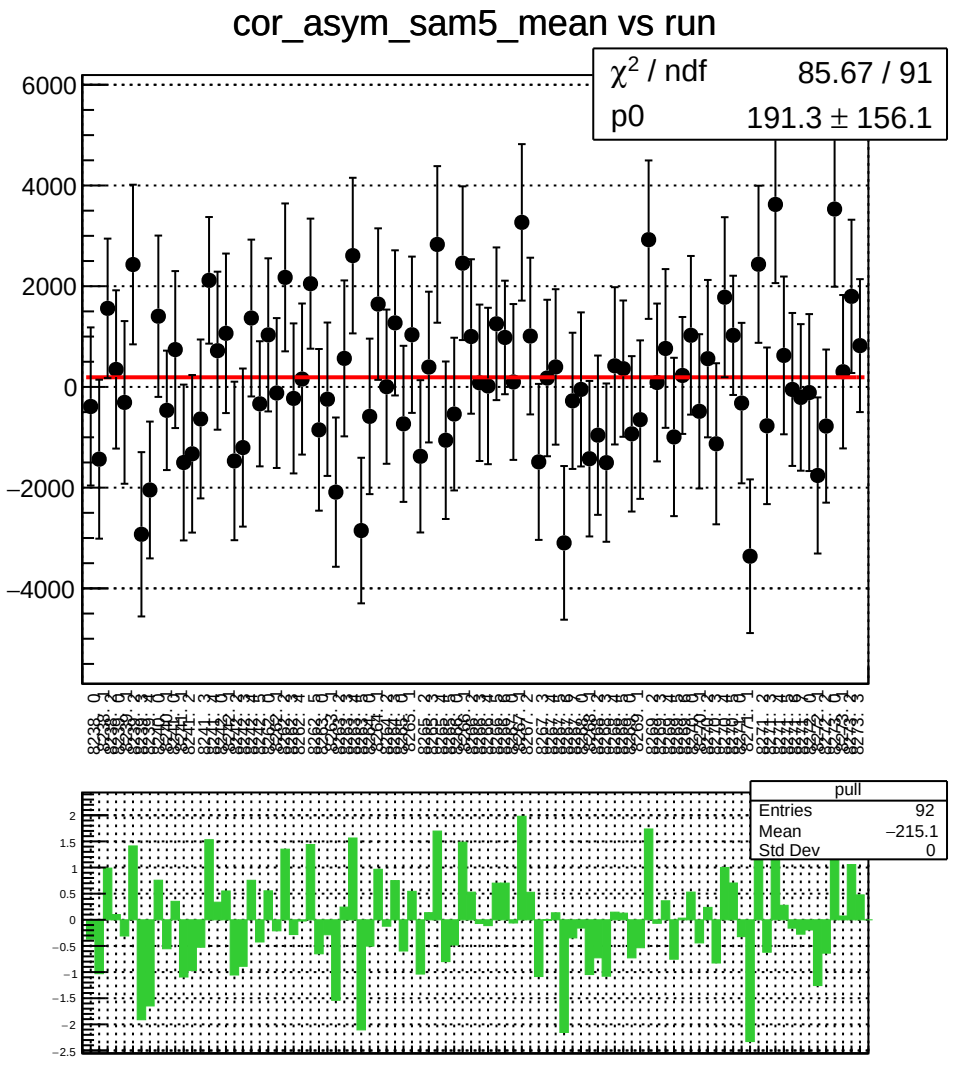

reg_asym_sam5_mean vs run
χ² / ndf 85.67 / 91
p0 191.3 ± 156.1
pull
Entries 92
Mean −215.1
Std Dev 0

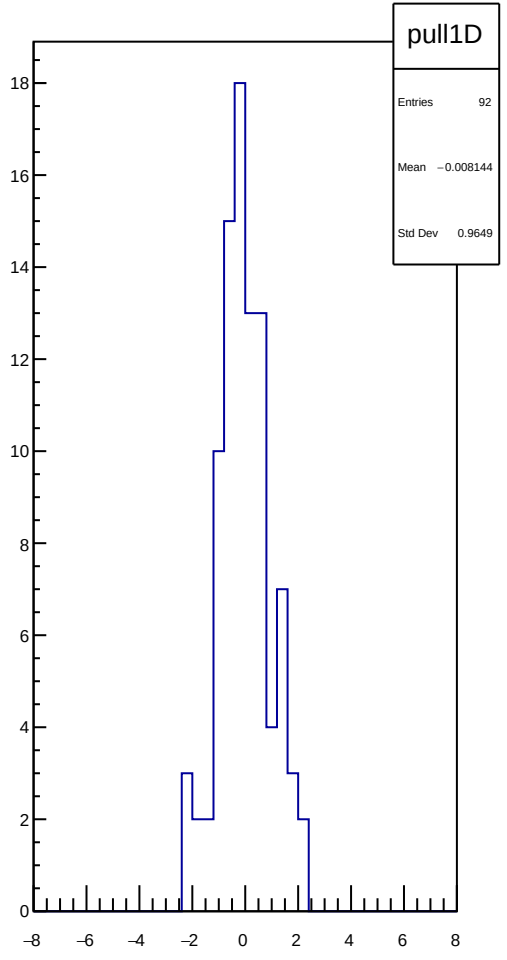

pull1D
Entries 92
Mean −0.008144
Std Dev 0.9649

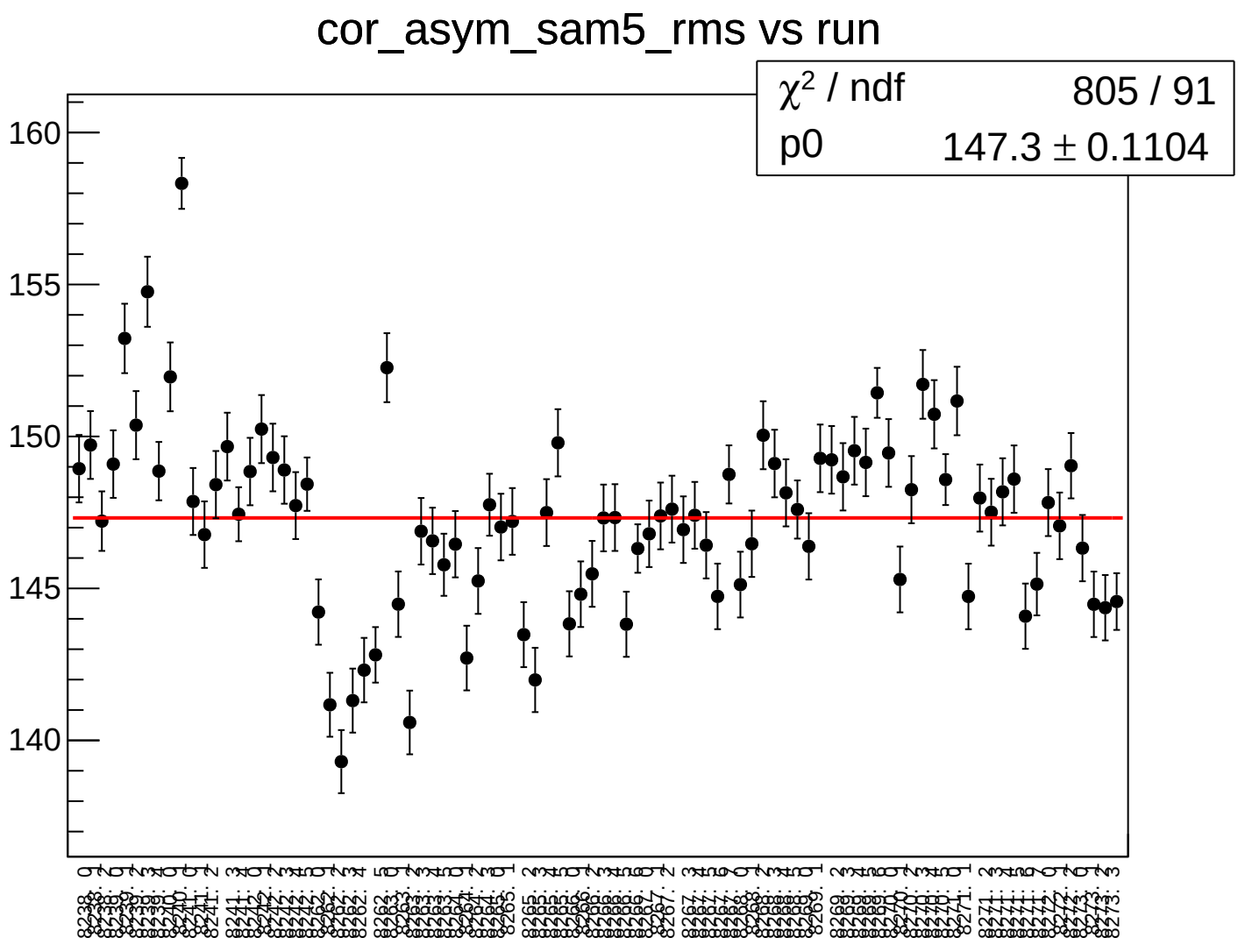

reg_asym_sam5_rms vs run
χ² / ndf 805 / 91
p0 147.3 ± 0.1104
160
155
150
145
140

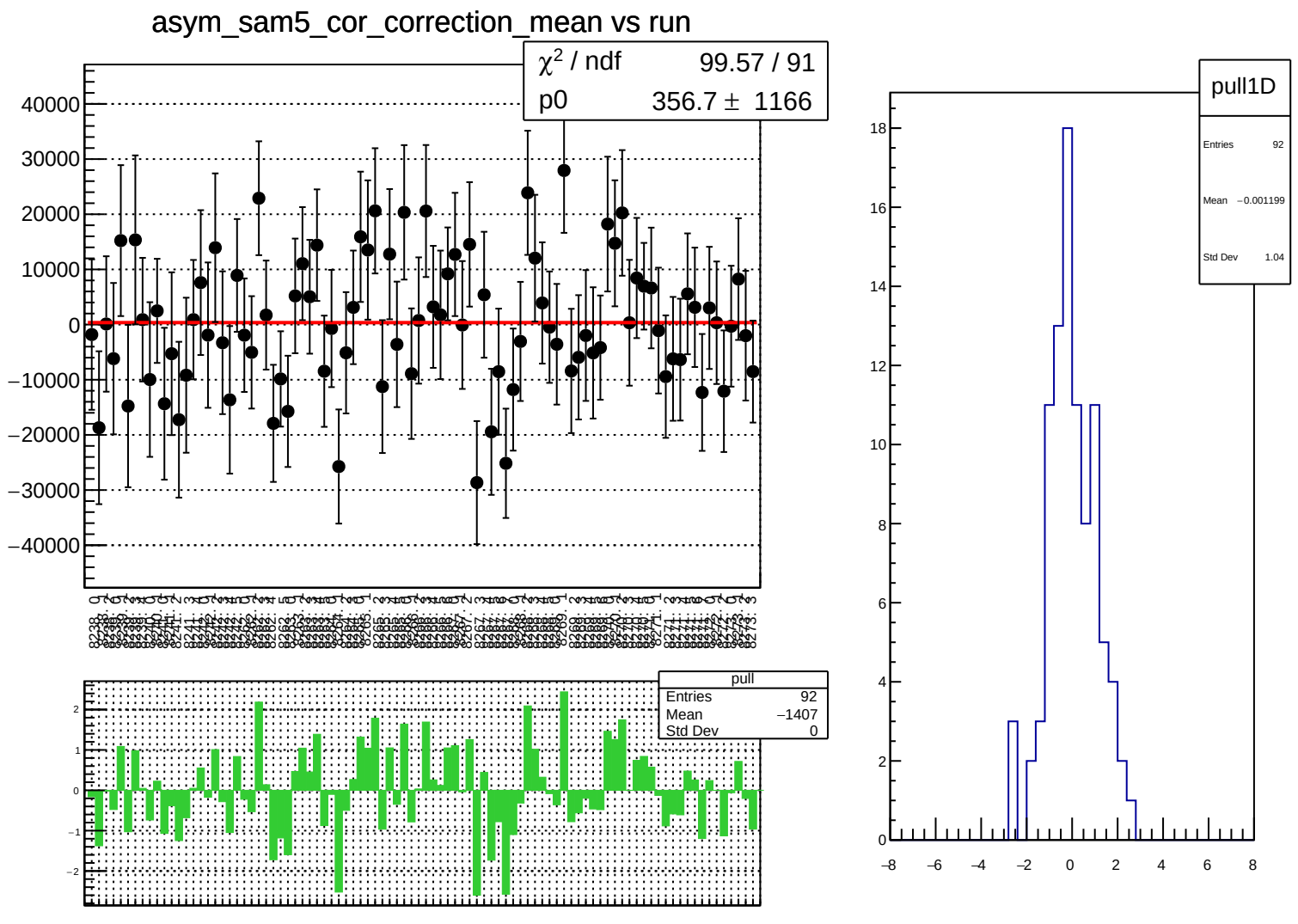

asym_sam5_reg_correction_mean vs run
χ² / ndf 99.57 / 91
p0 356.7 ± 1166
pull
Entries 92
Mean −1408
Std Dev 0
pull1D
Entries 92
Mean −0.001197
Std Dev 1.04

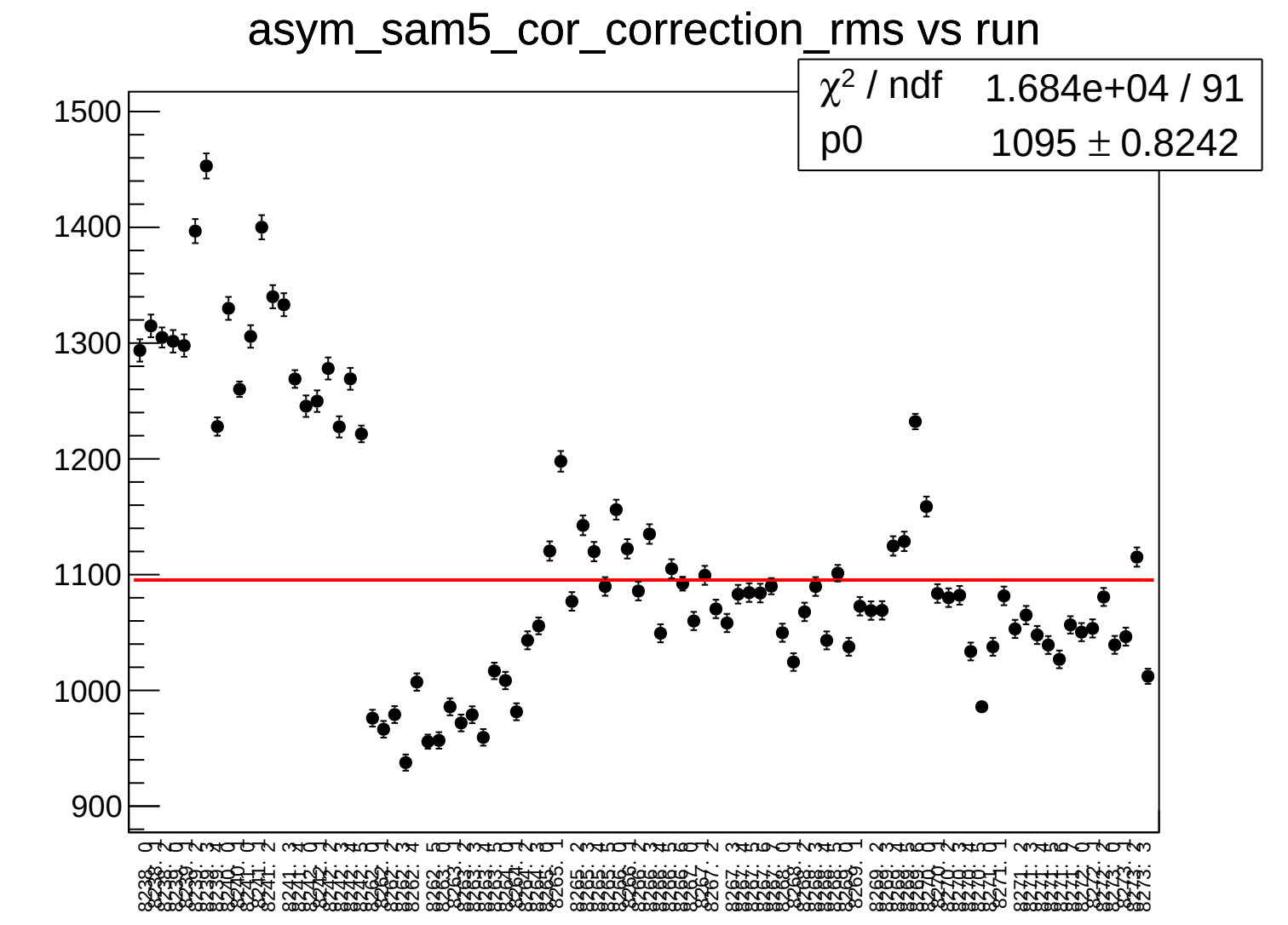

asym_sam5_reg_correction_rms vs run
χ² / ndf 1.684e+04 / 91
p0 1095 ± 0.8242
1500
1400
1300
1200
1100
1000
900

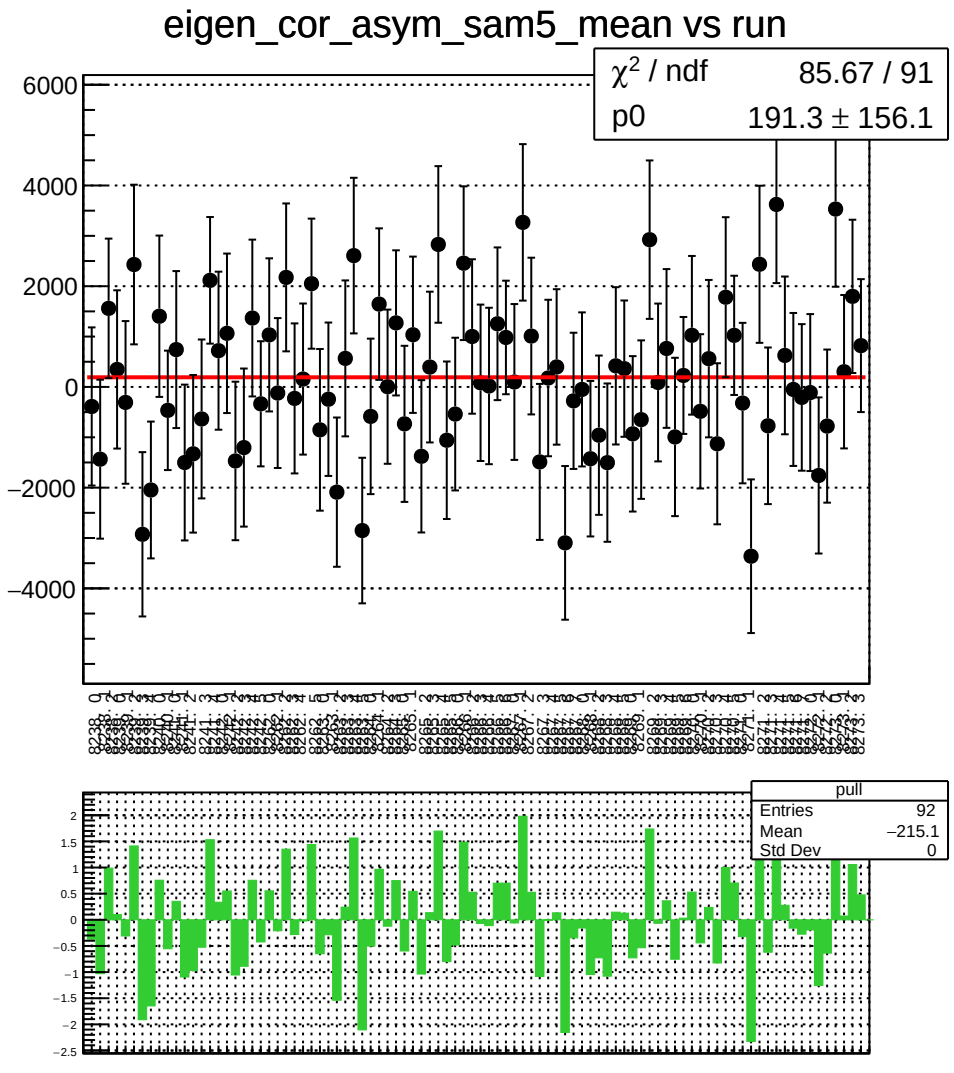

cor_asym_sam5_mean vs run
χ² / ndf 85.67 / 91
p0 191.3 ± 156.1
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −215.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

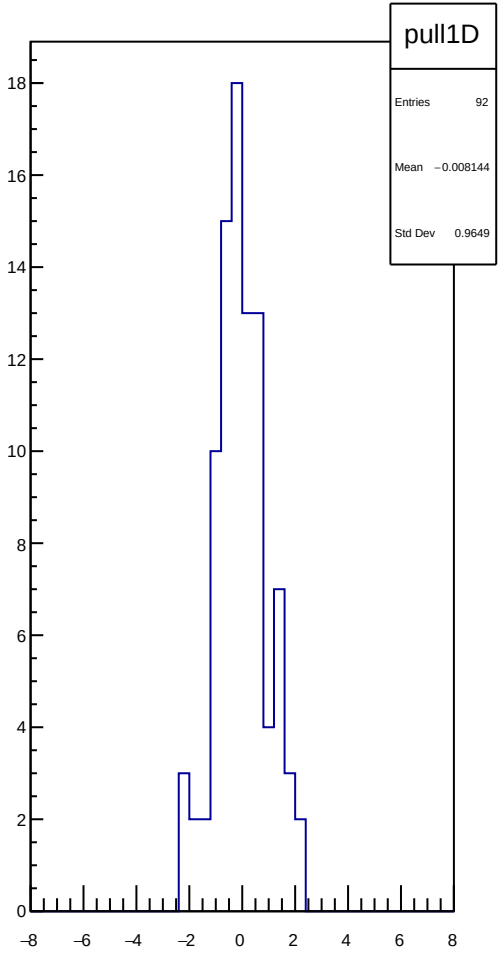

pull1D
Entries 92
Mean −0.008144
Std Dev 0.9649
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

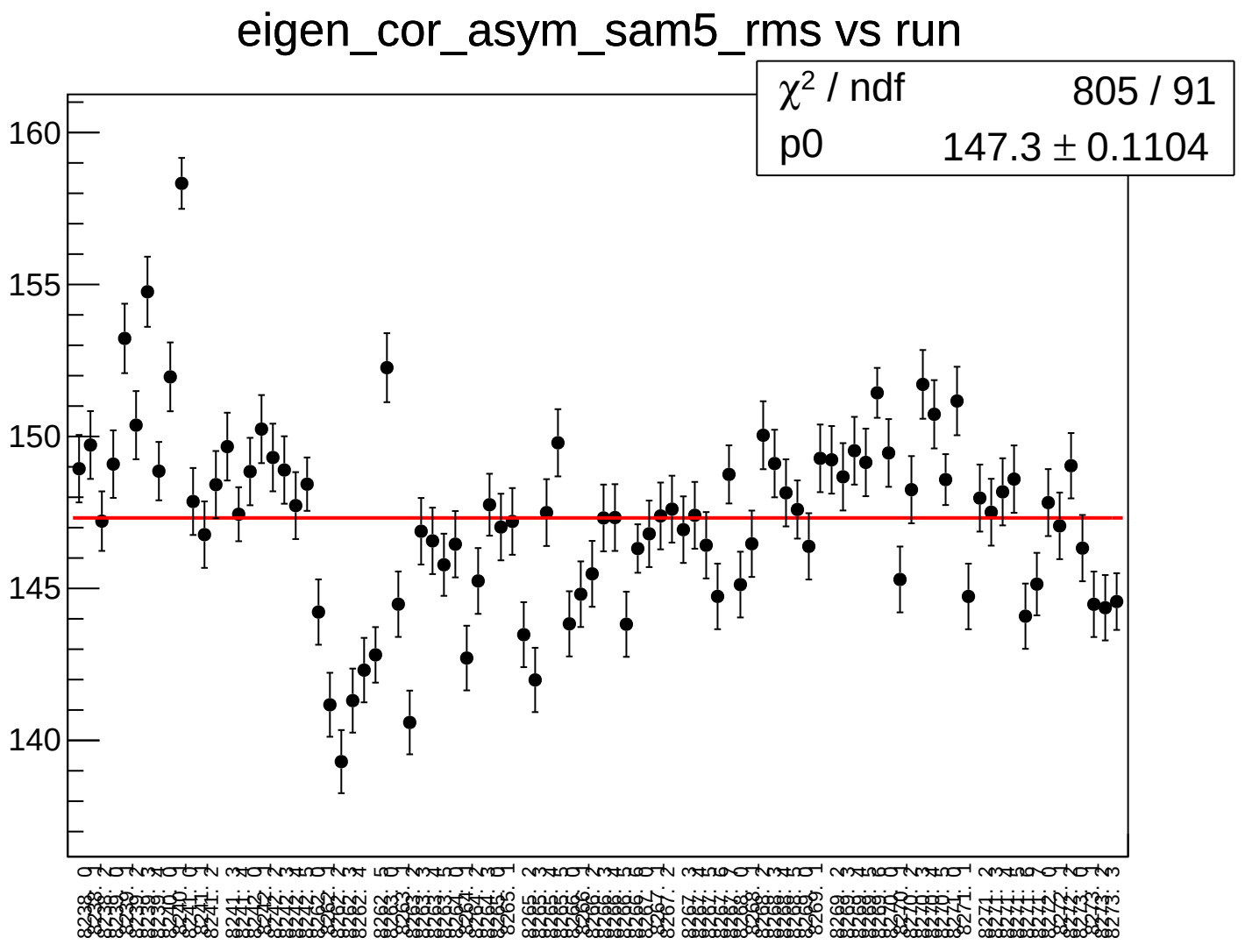

cor_asym_sam5_rms vs run
χ² / ndf 805 / 91
p0 147.3 ± 0.1104
160
155
150
145
140

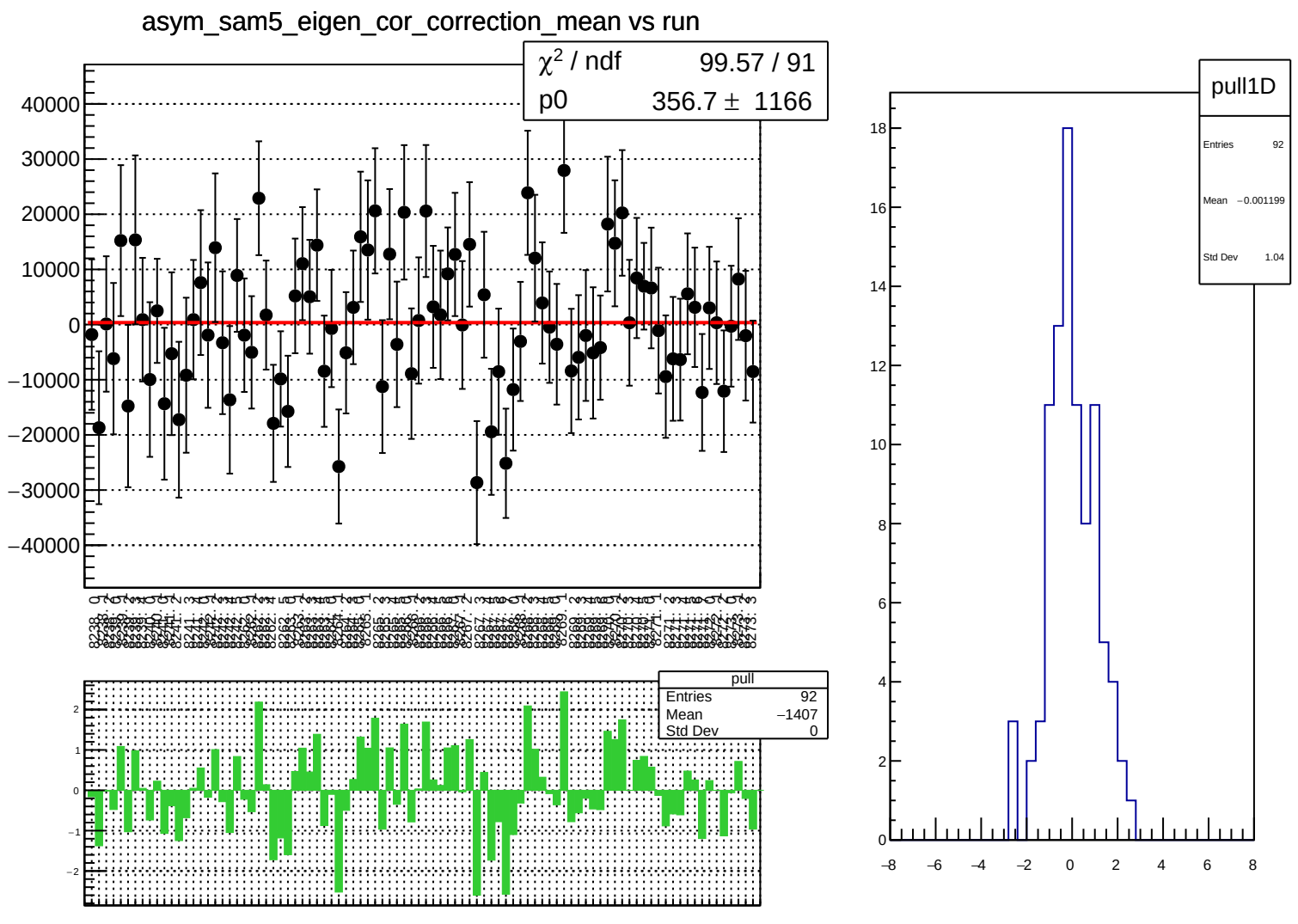

asym_sam5_cor_correction_mean vs run
χ² / ndf 99.57 / 91
p0 356.7 ± 1166
pull
Entries 92
Mean −1407
Std Dev 0
pull1D
Entries 92
Mean −0.001199
Std Dev 1.04

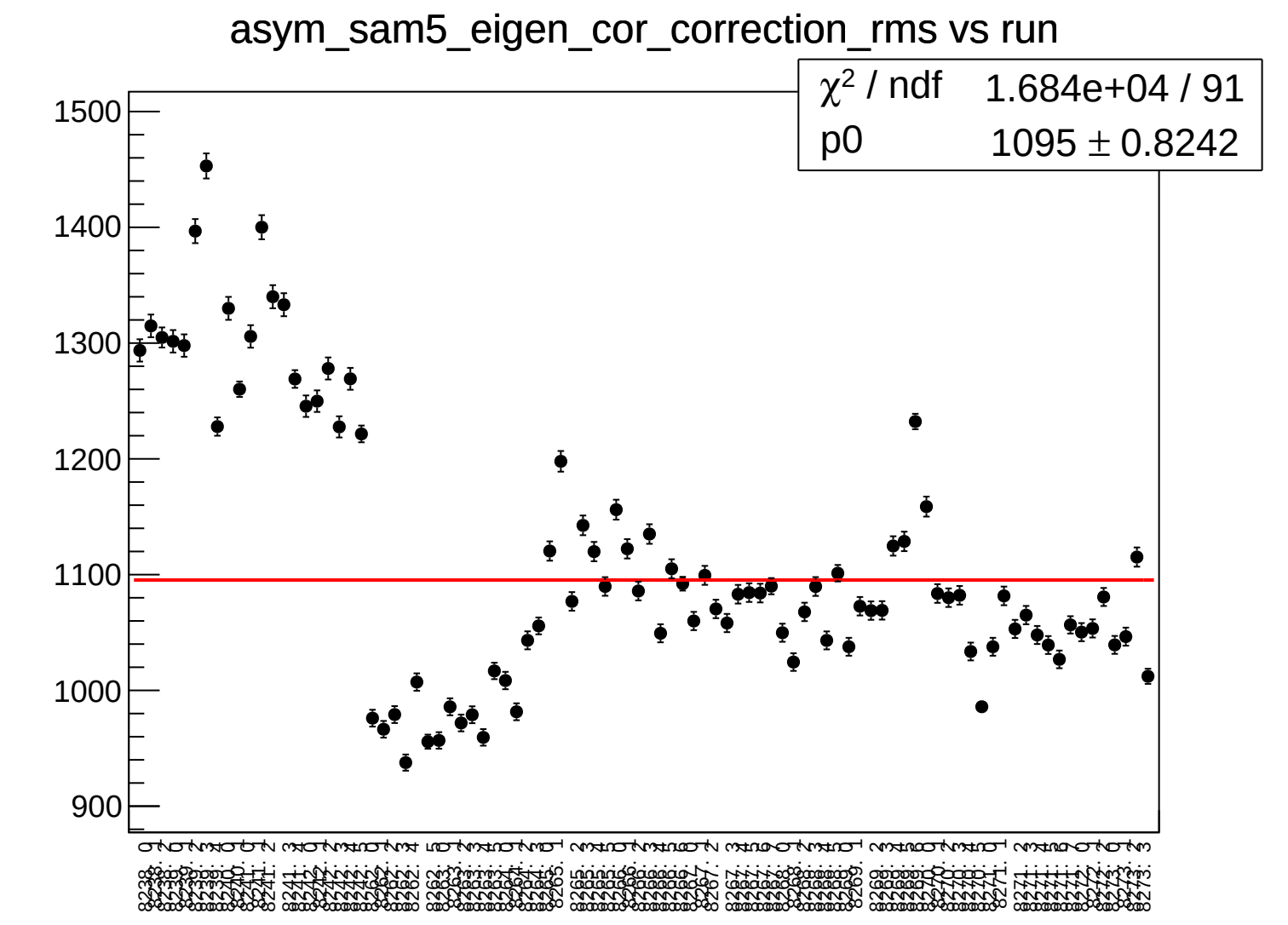

asym_sam5_cor_correction_rms vs run
χ² / ndf 1.684e+04 / 91
p0 1095 ± 0.8242
1500
1400
1300
1200
1100
1000
900

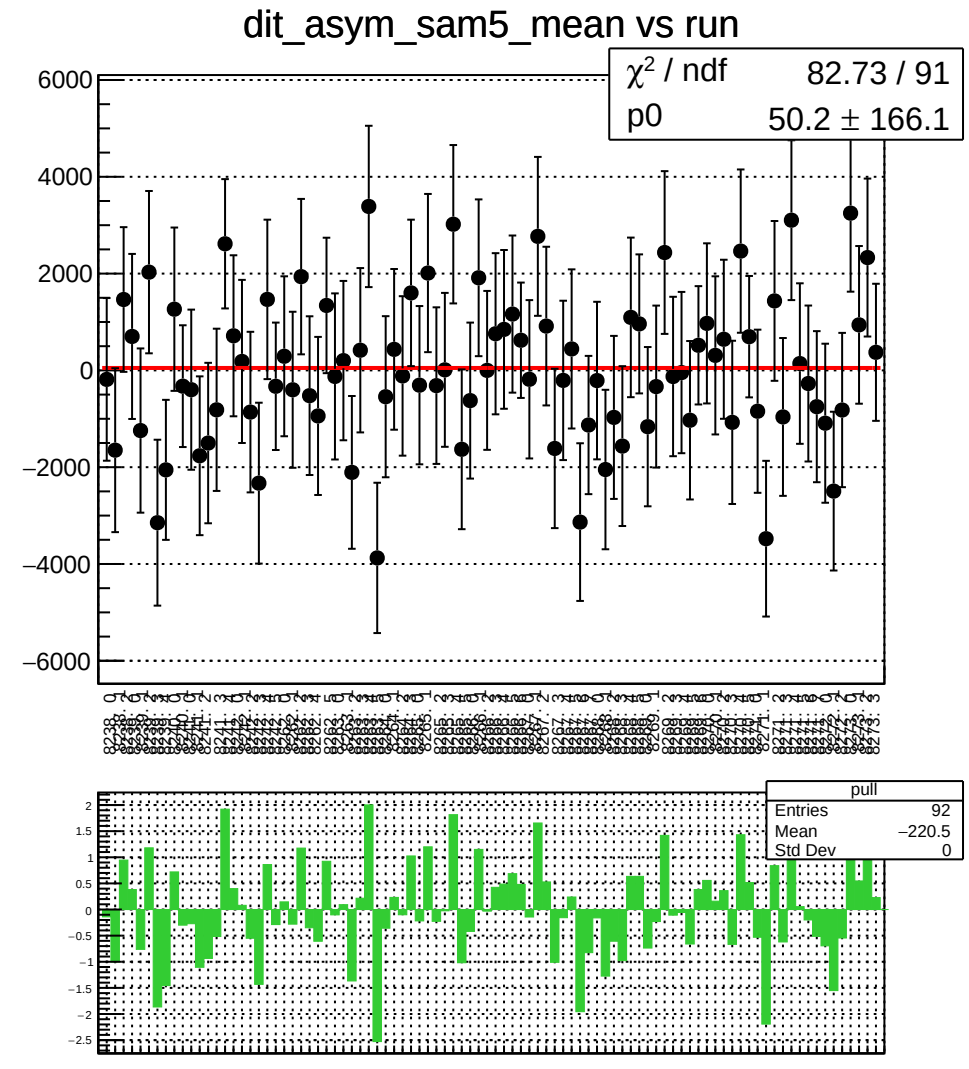

eigen_cor_asym_sam5_mean vs run
χ² / ndf 85.67 / 91
p0 191.3 ± 156.1
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −215.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

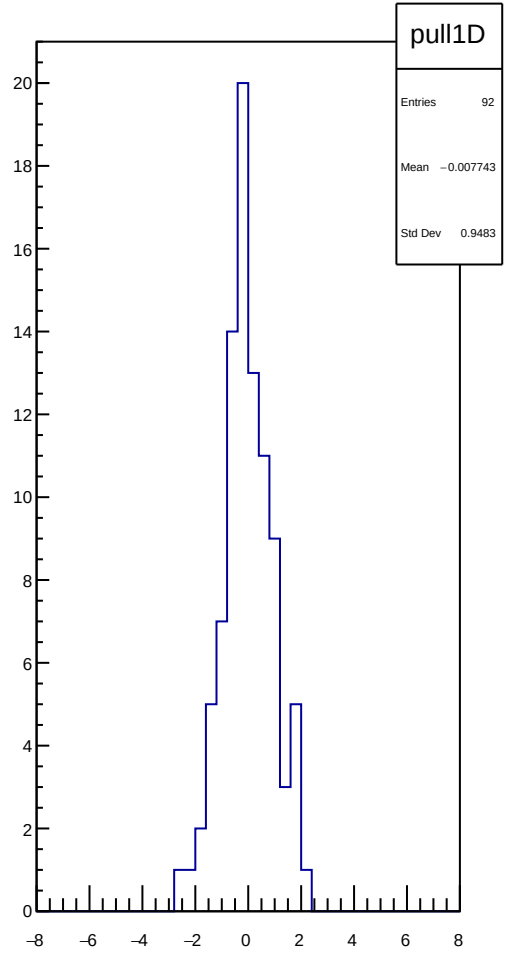

pull1D
Entries 92
Mean −0.008144
Std Dev 0.9649
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

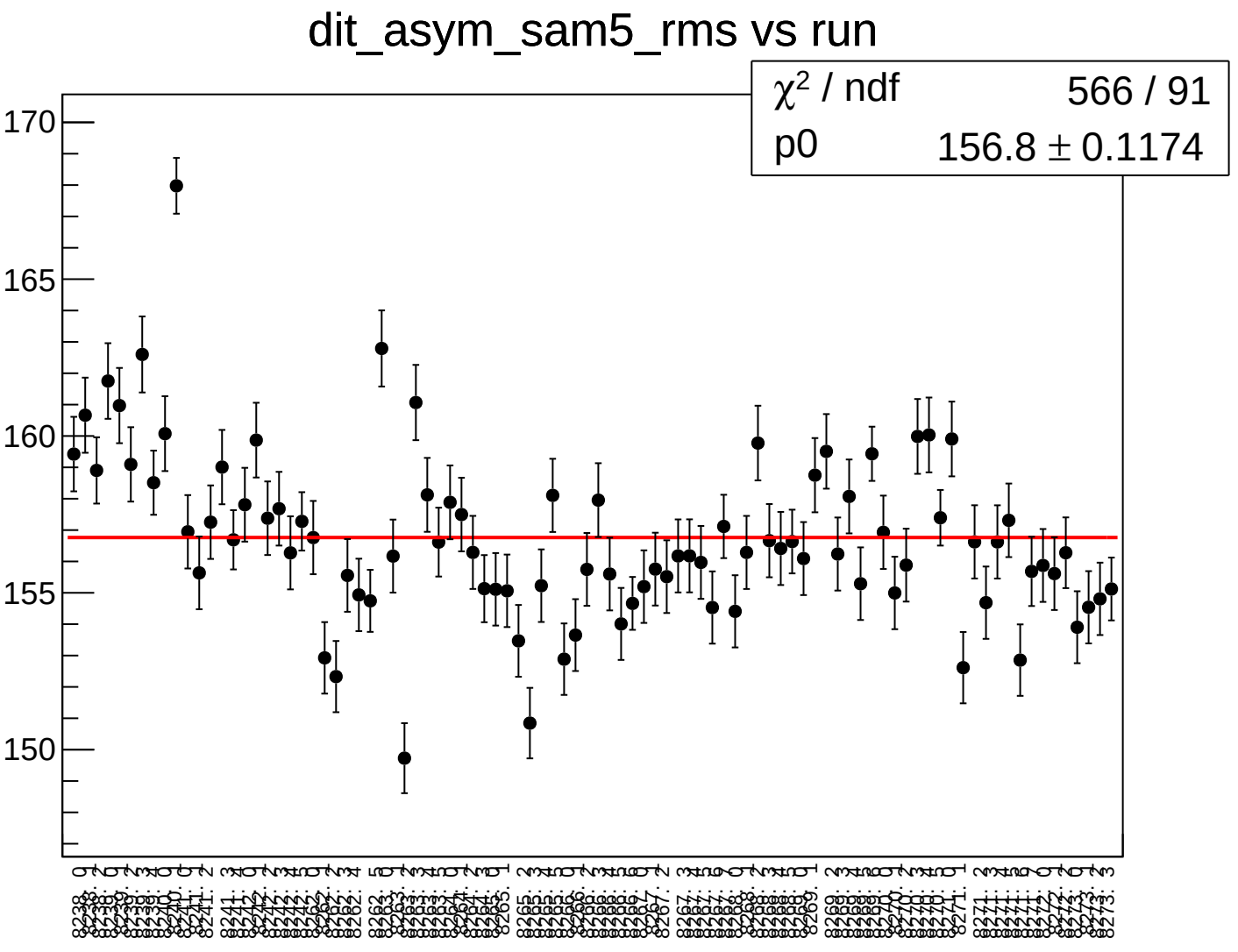

eigen_cor_asym_sam5_rms vs run
χ² / ndf 805 / 91
p0 147.3 ± 0.1104
160
155
150
145
140

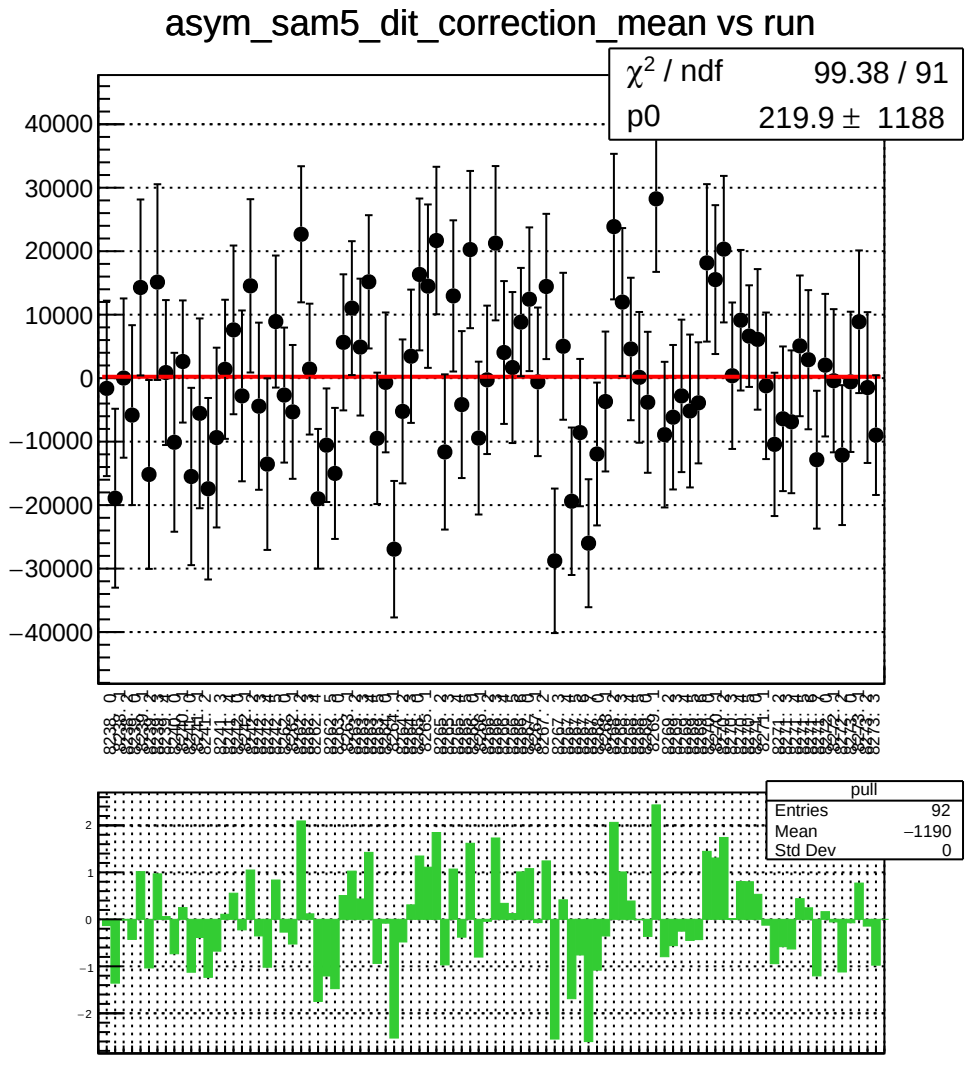

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 99.57 / 91
p0 356.7 ± 1166
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −1407
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.001199
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

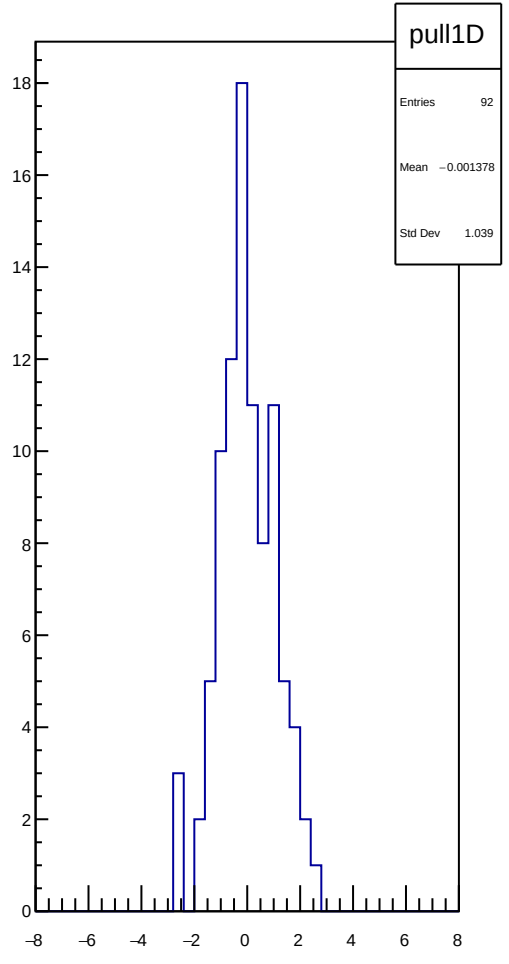

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 1.684e+04 / 91
p0 1095 ± 0.8242
1500
1400
1300
1200
1100
1000
900

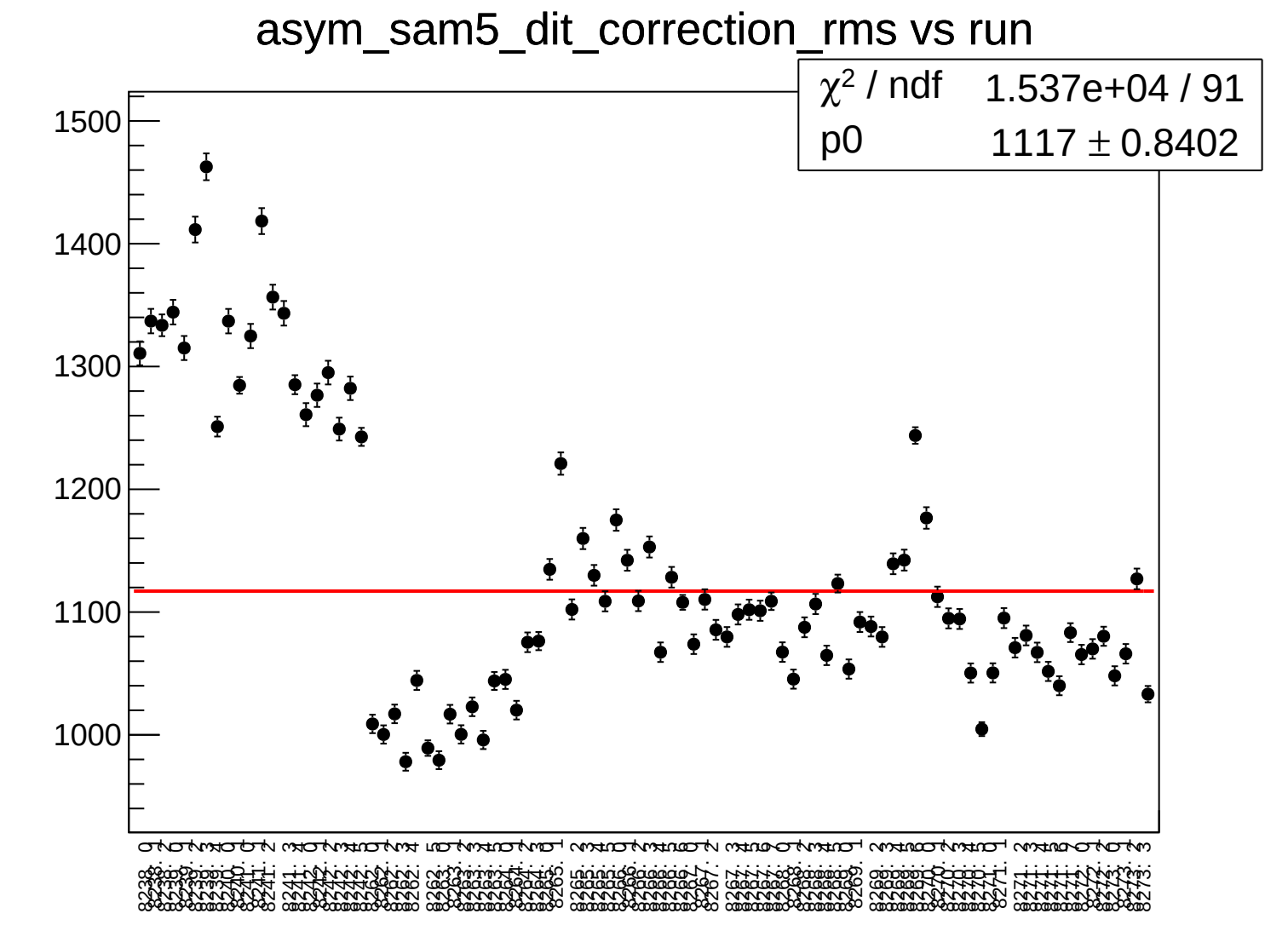

dit_asym_sam5_mean vs run
χ² / ndf 82.73 / 91
p0 50.2 ± 166.1
pull
Entries 92
Mean −220.5
Std Dev 0

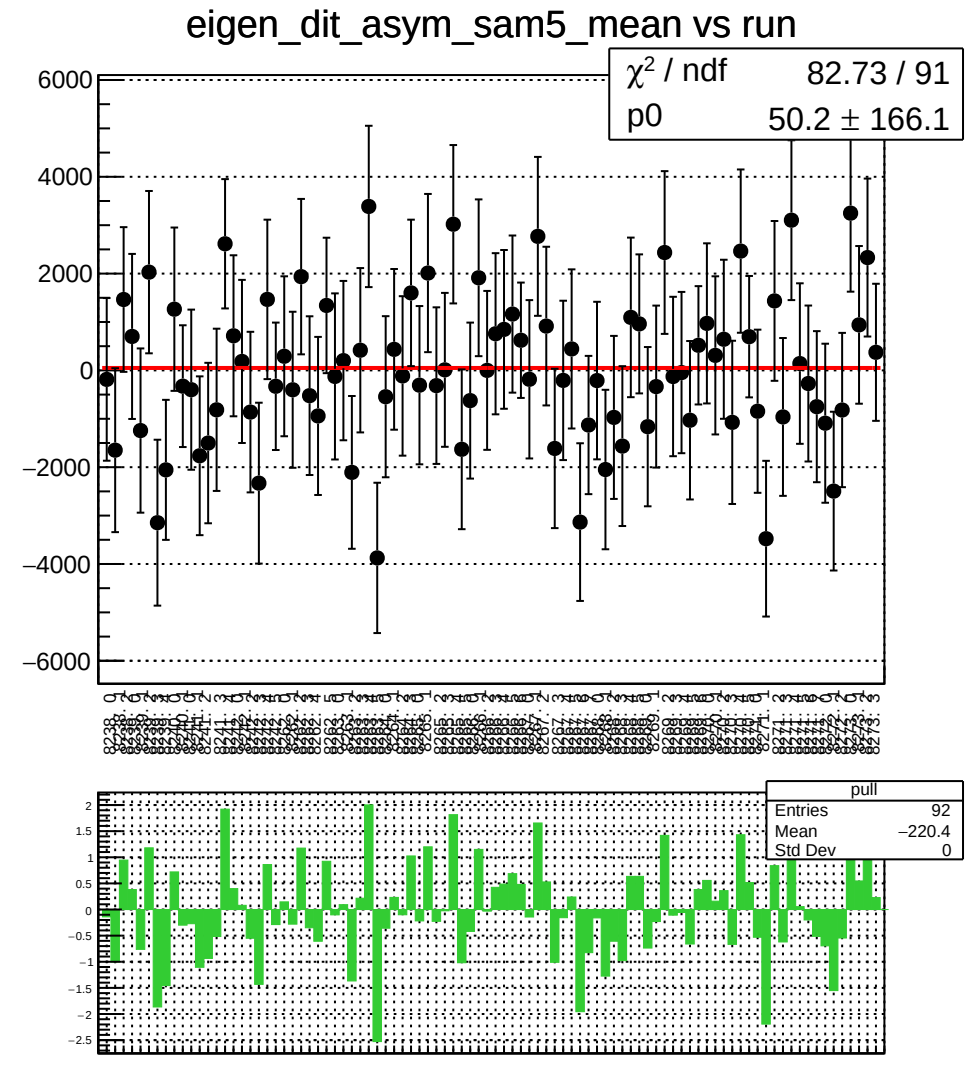

pull1D
Entries 92
Mean −0.007743
Std Dev 0.9483

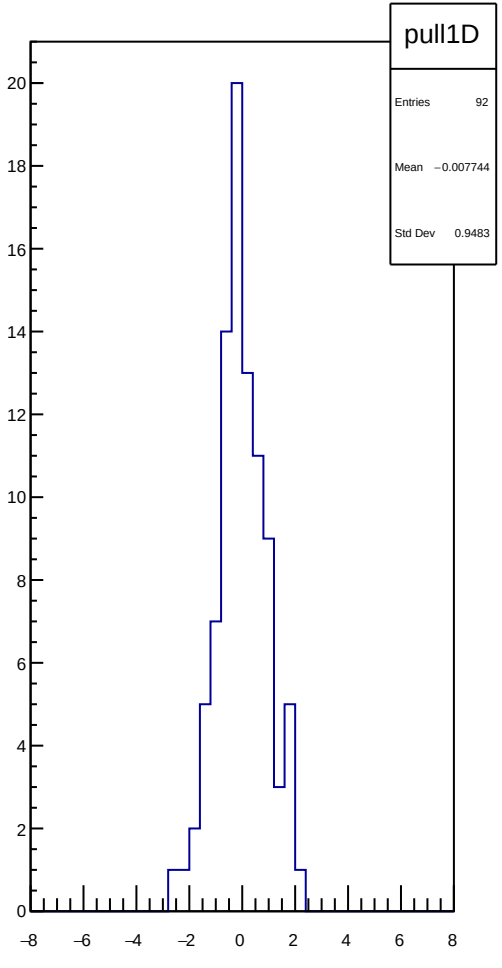

dit_asym_sam5_rms vs run
χ² / ndf 566 / 91
p0 156.8 ± 0.1174
170
165
160
155
150

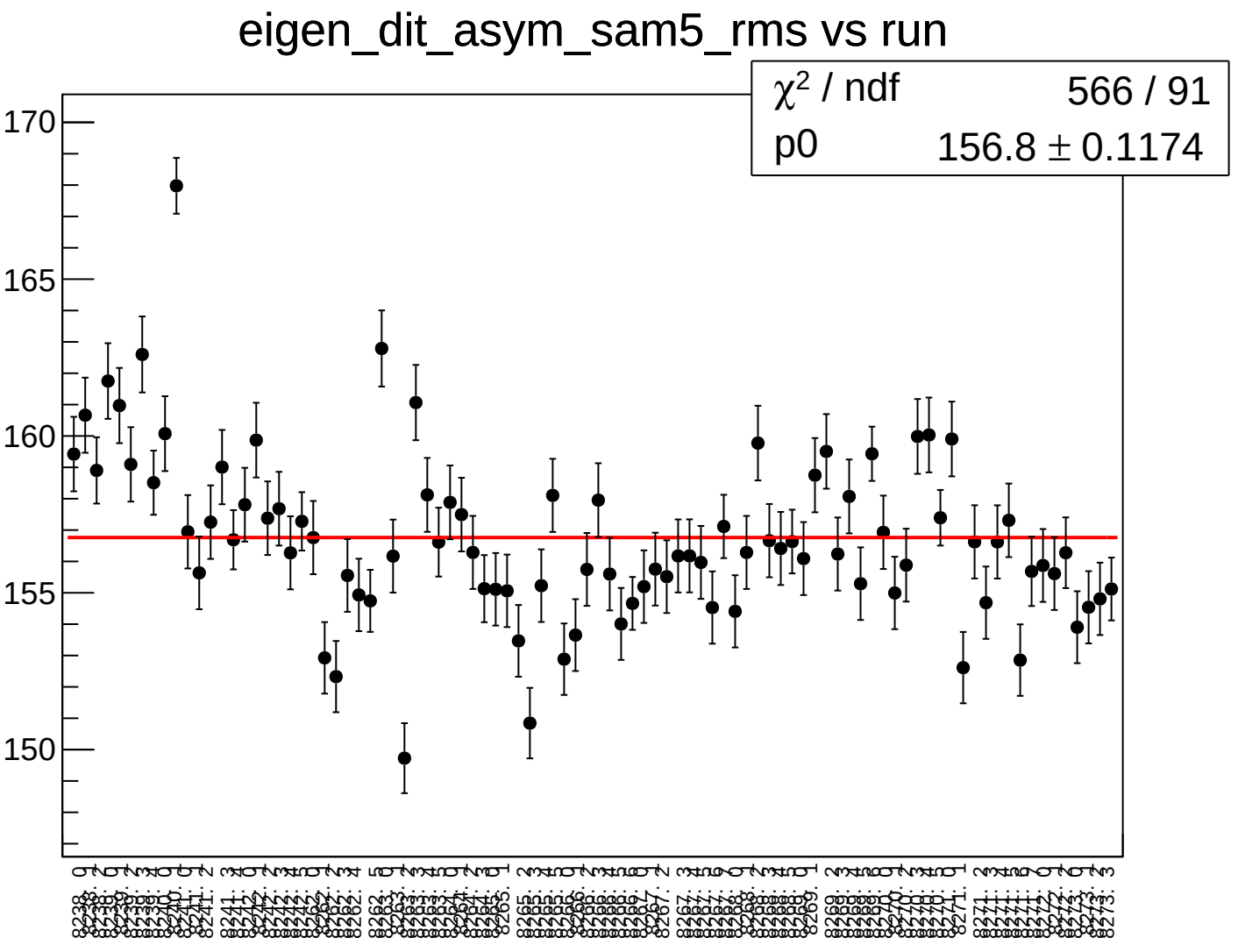

asym_sam5_dit_correction_mean vs run
χ² / ndf 99.38 / 91
p0 219.9 ± 1188
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −1190
Std Dev 0
2
1
0
−1
−2

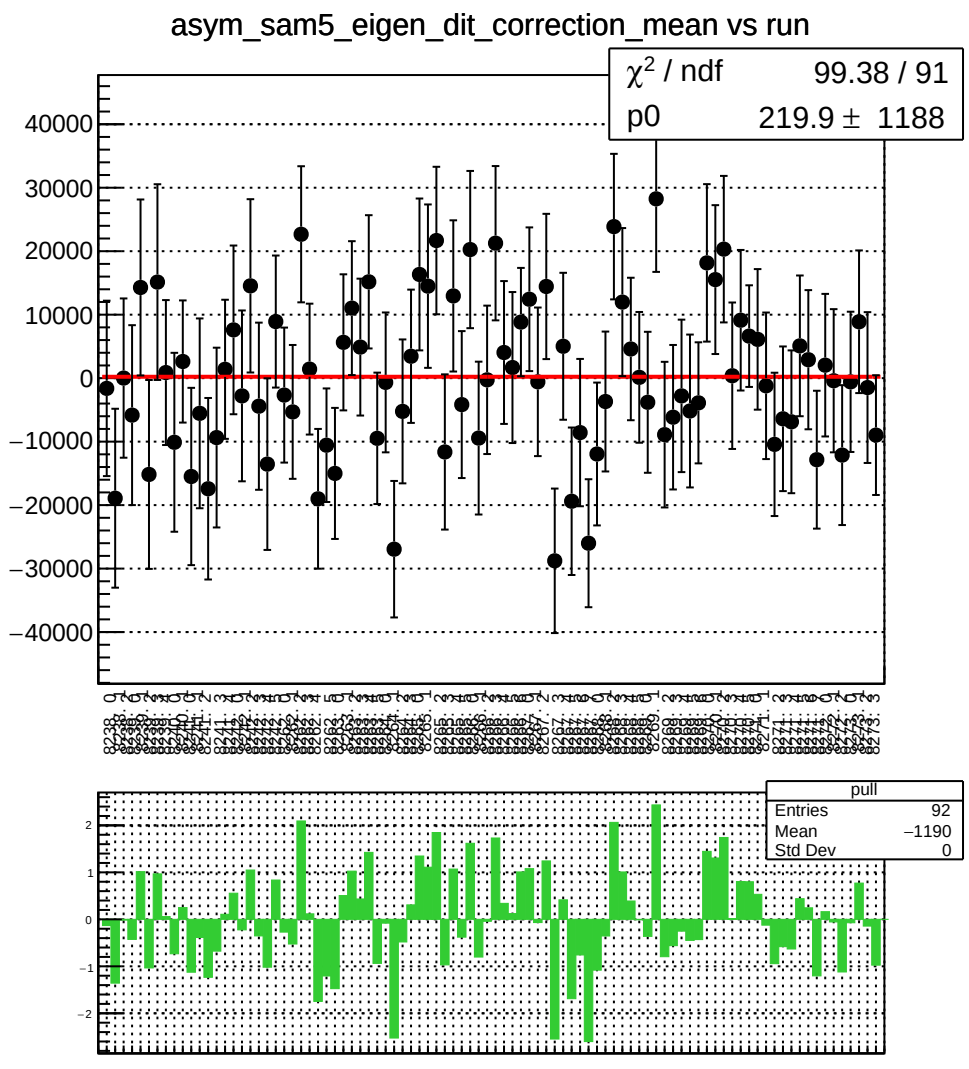

pull1D
Entries 92
Mean −0.001378
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

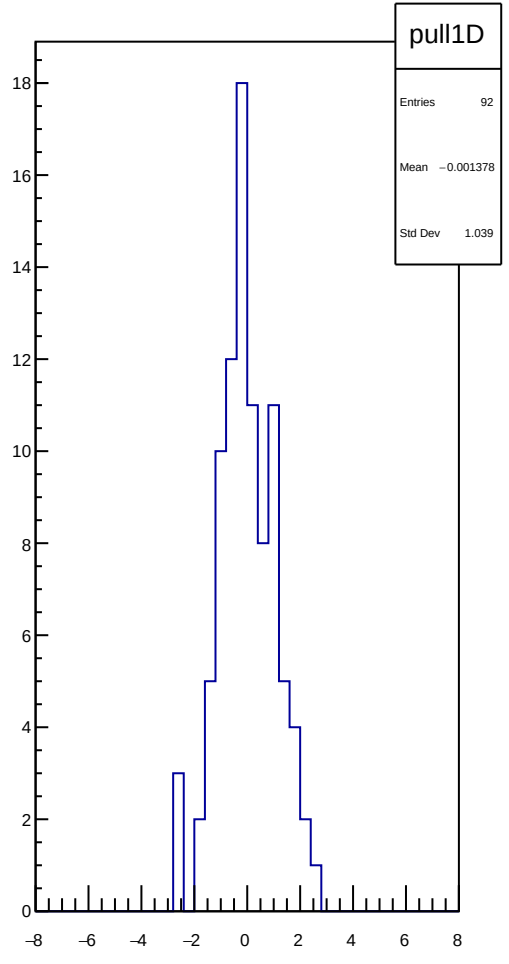

asym_sam5_dit_correction_rms vs run
χ² / ndf 1.537e+04 / 91
p0 1117 ± 0.8402
1500
1400
1300
1200
1100
1000

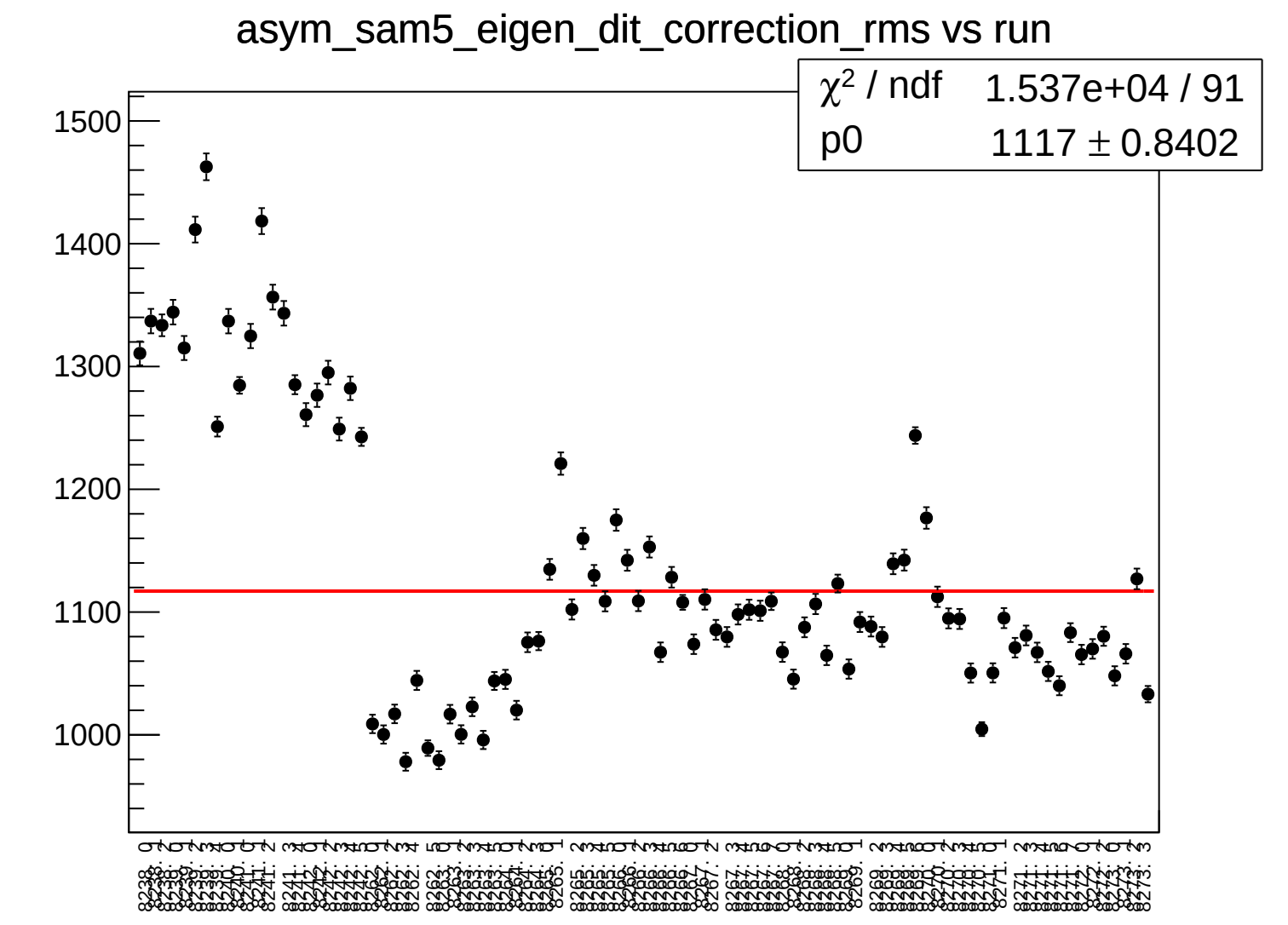

eigen_dit_asym_sam5_mean vs run
χ² / ndf 82.73 / 91
p0 50.2 ± 166.1
pull
Entries 92
Mean −220.4
Std Dev 0

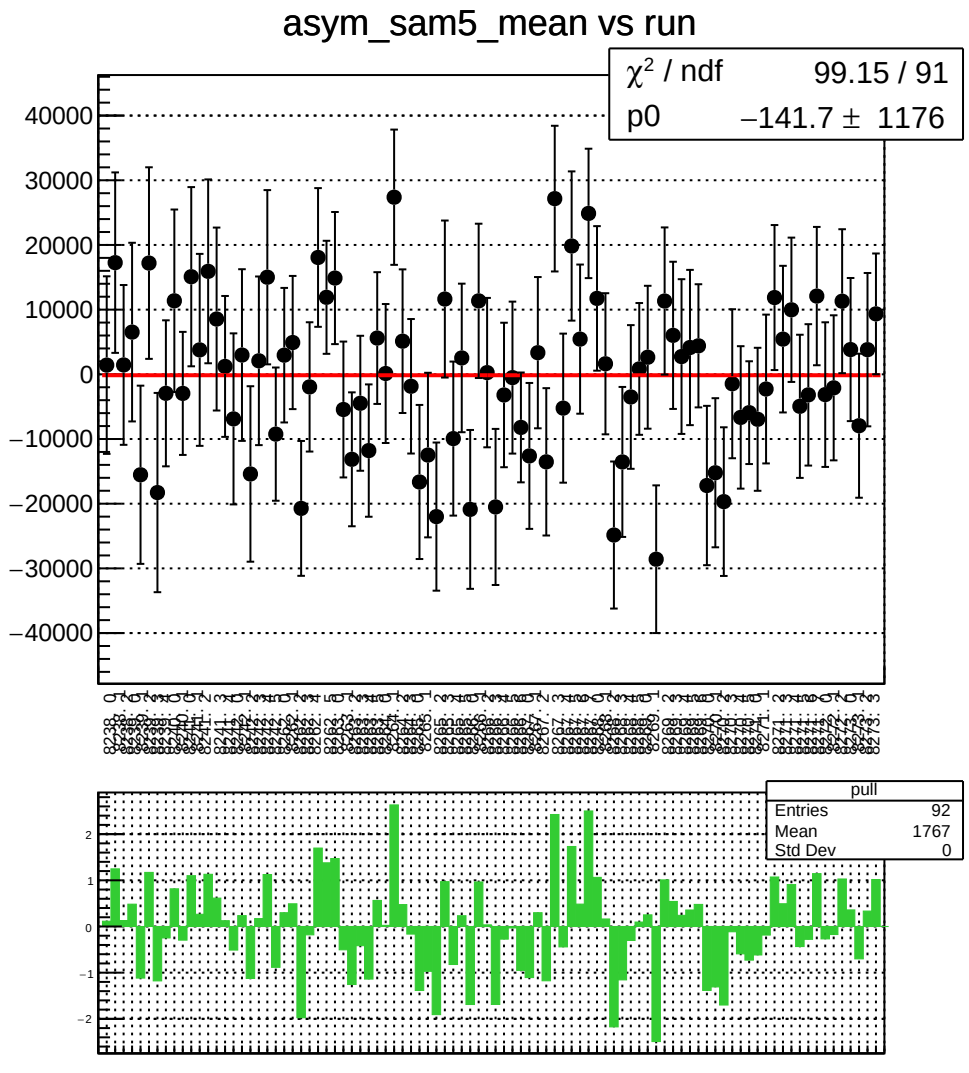

pull1D
Entries 92
Mean −0.007744
Std Dev 0.9483

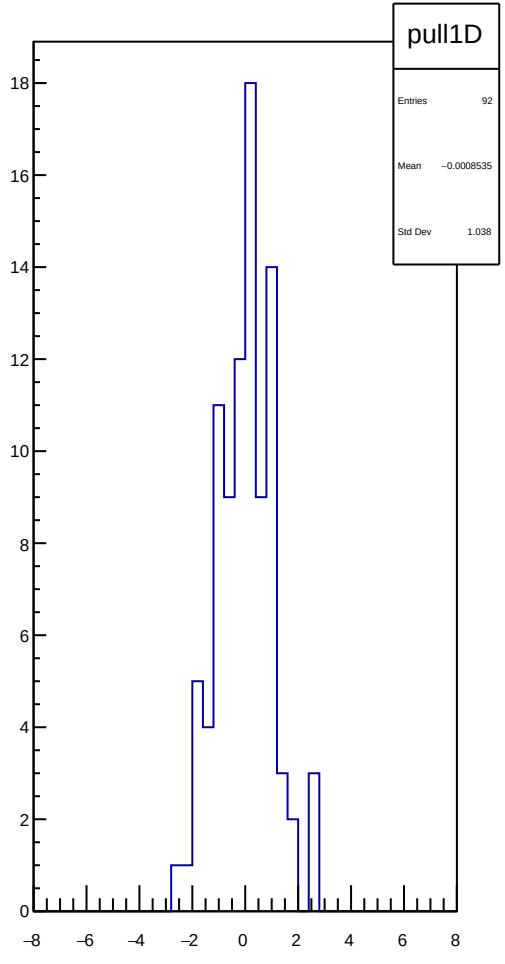

eigen_dit_asym_sam5_rms vs run
χ² / ndf 566 / 91
p0 156.8 ± 0.1174
170
165
160
155
150

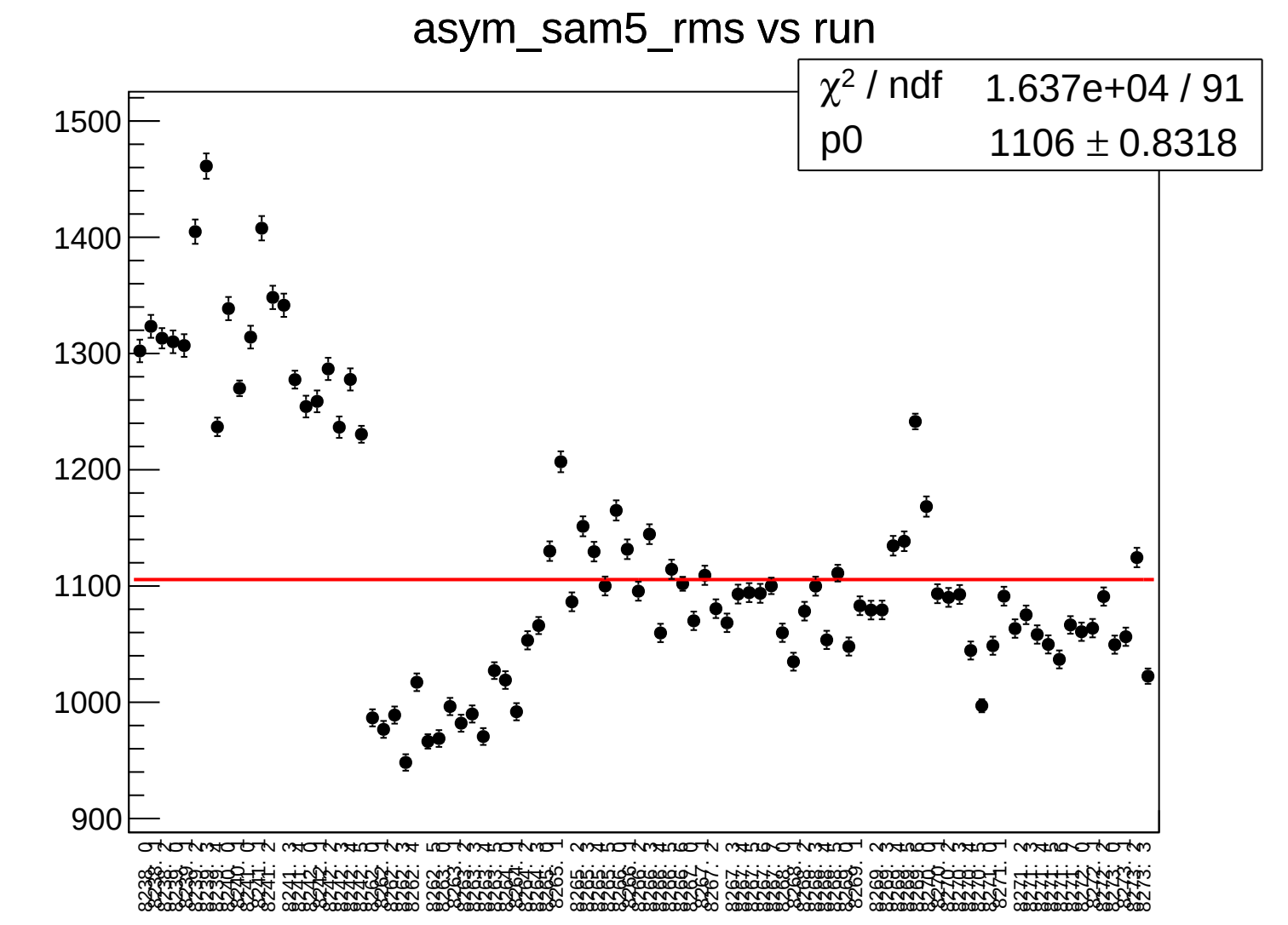

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 99.38 / 91
p0 219.9 ± 1188
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −1190
Std Dev 0
2
1
0
−1
−2

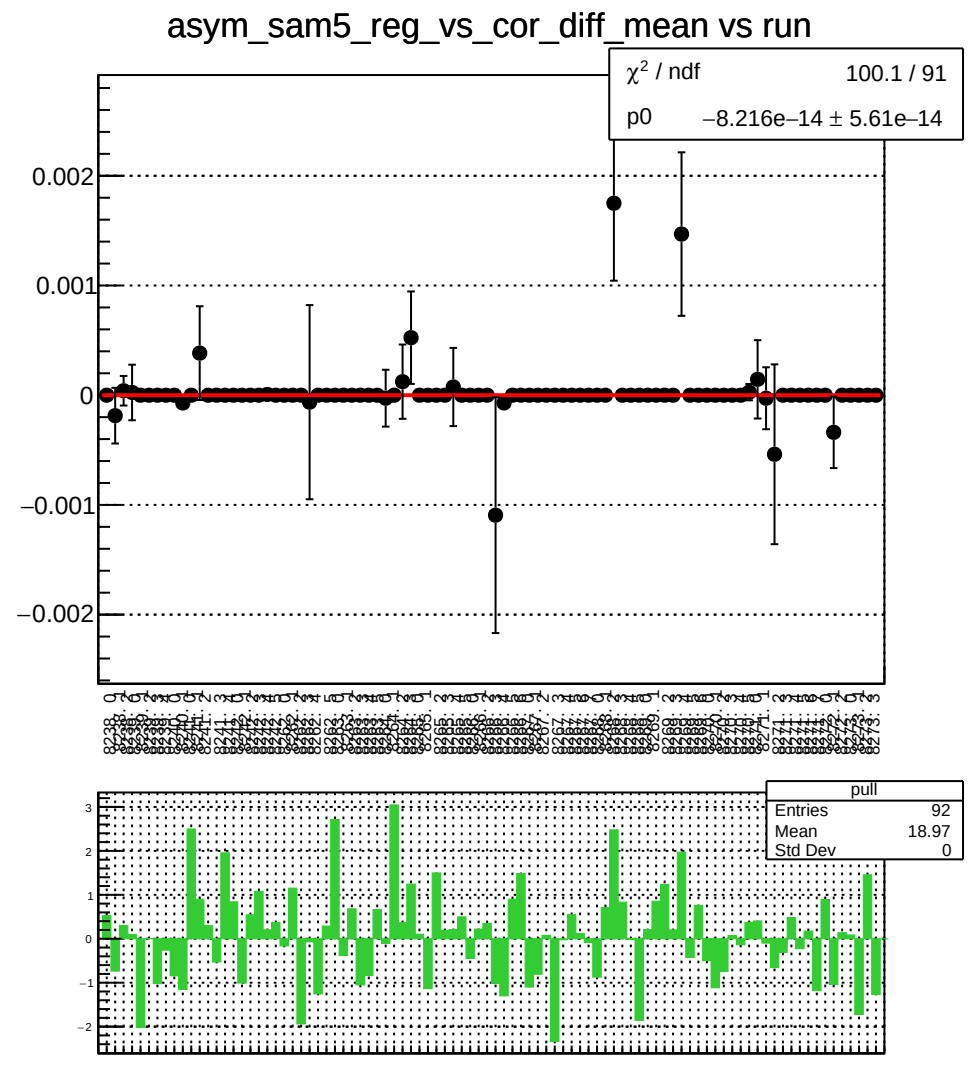

pull1D
Entries 92
Mean −0.001378
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

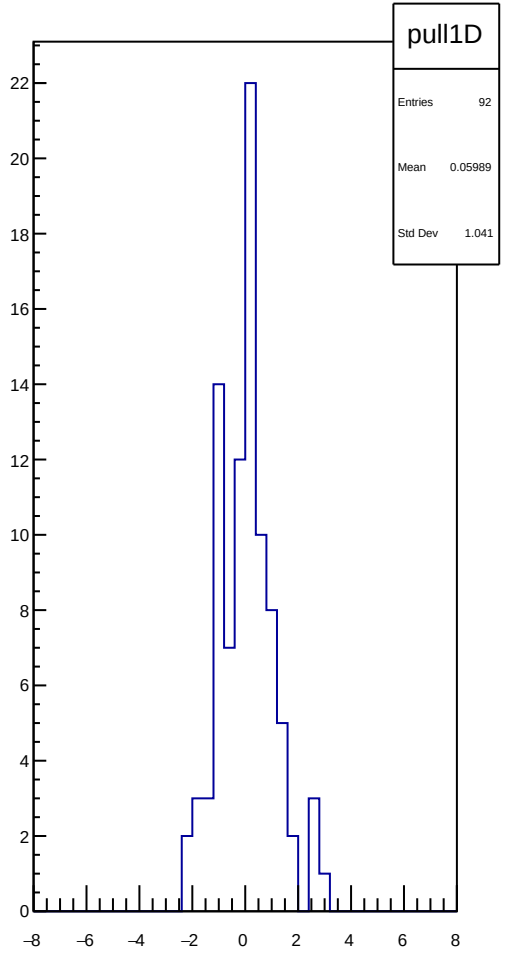

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 1.537e+04 / 91
p0 1117 ± 0.8402
1500
1400
1300
1200
1100
1000

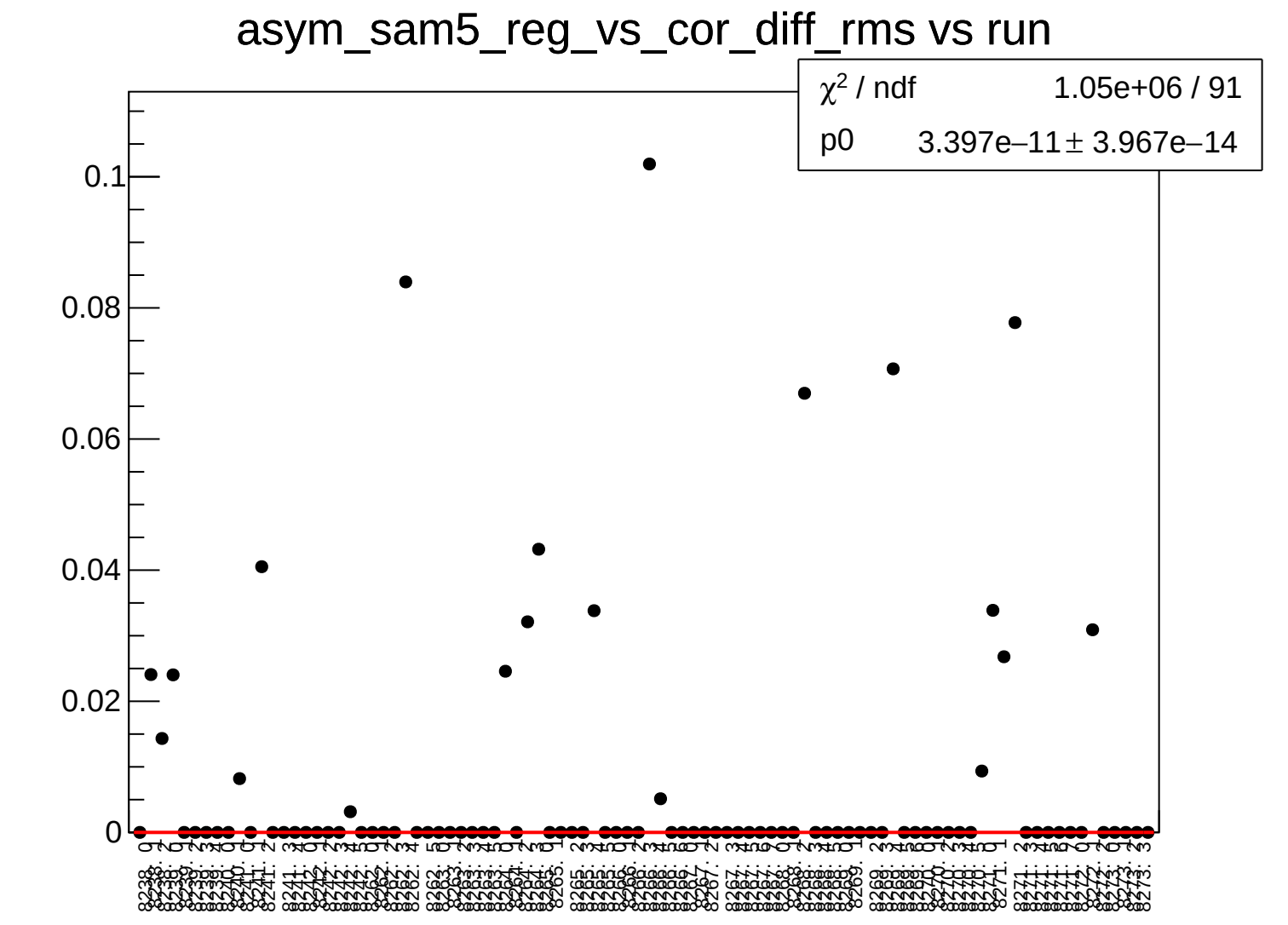

asym_sam5_mean vs run
χ² / ndf 99.15 / 91
p0 −141.7 ± 1176
pull
Entries 92
Mean 1767
Std Dev 0

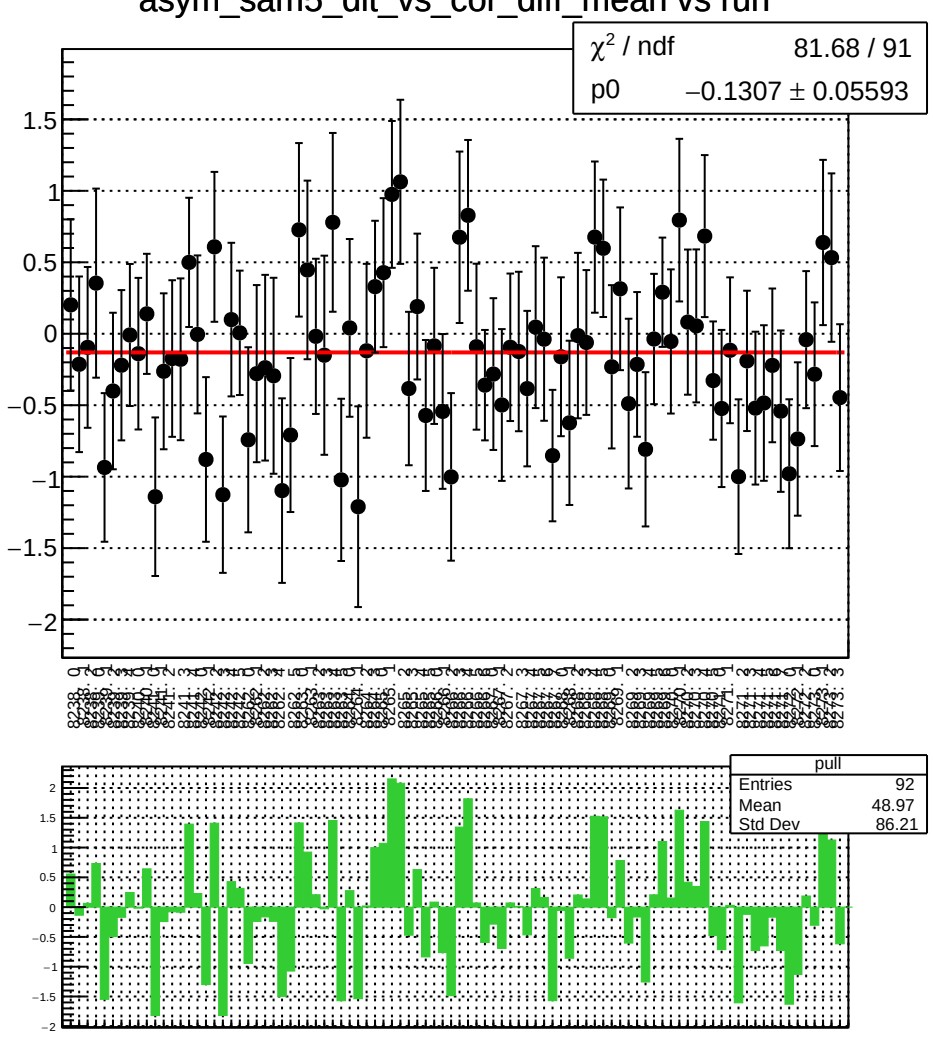

pull1D
Entries 92
Mean −0.0008535
Std Dev 1.038

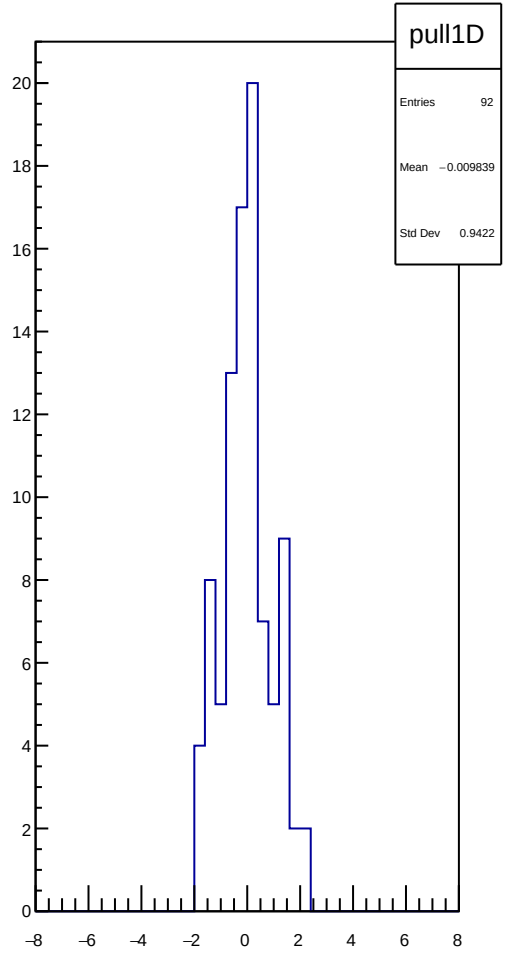

asym_sam5_rms vs run
χ² / ndf 1.637e+04 / 91
p0 1106 ± 0.8318
1500
1400
1300
1200
1100
1000
900

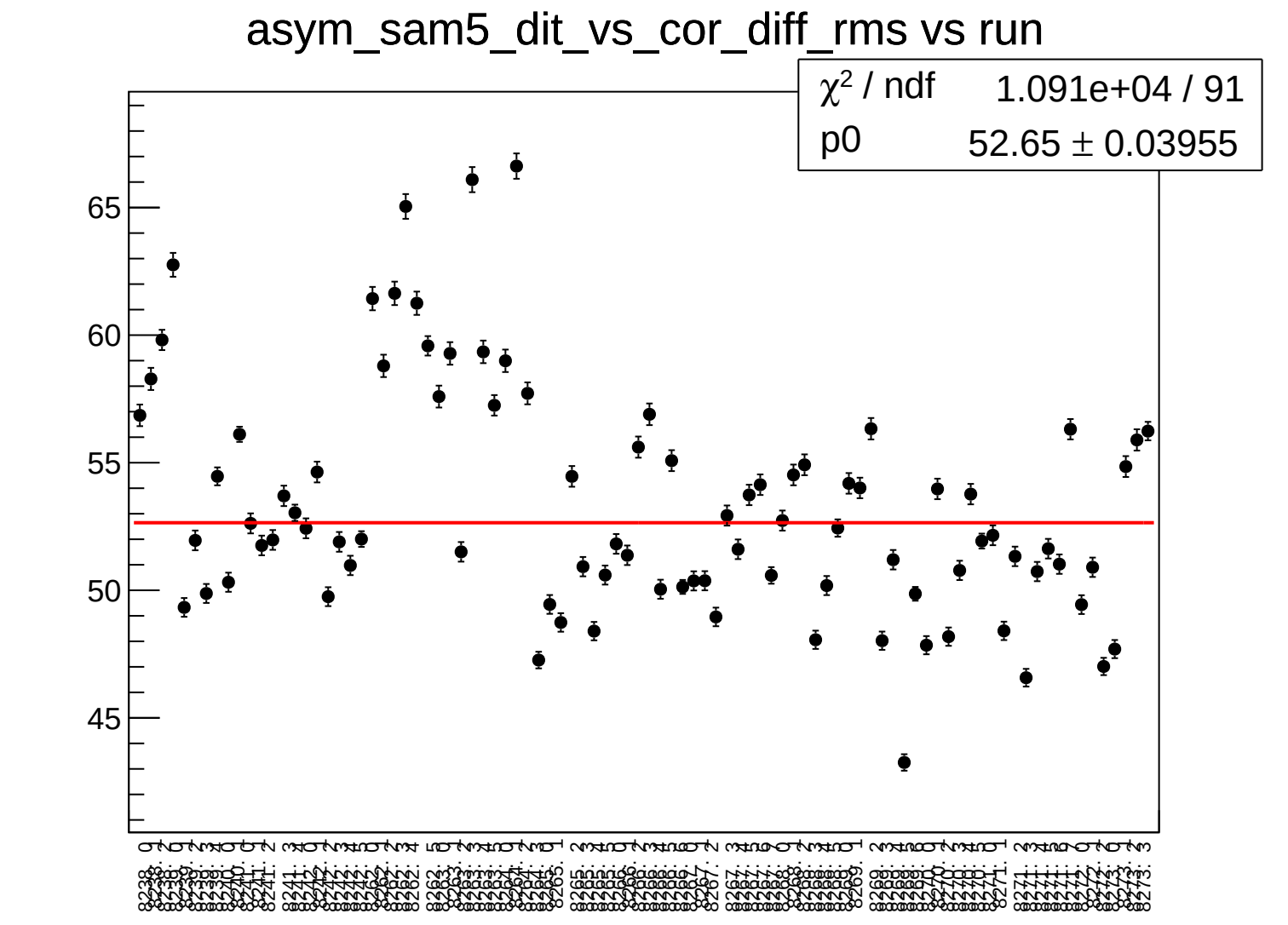

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 100.1 / 91
p0 −8.216e−14 ± 5.61e−14
0.002
0.001
0
−0.001
−0.002
pull
Entries 92
Mean 18.97
Std Dev 0
3
2
1
0
−1
−2

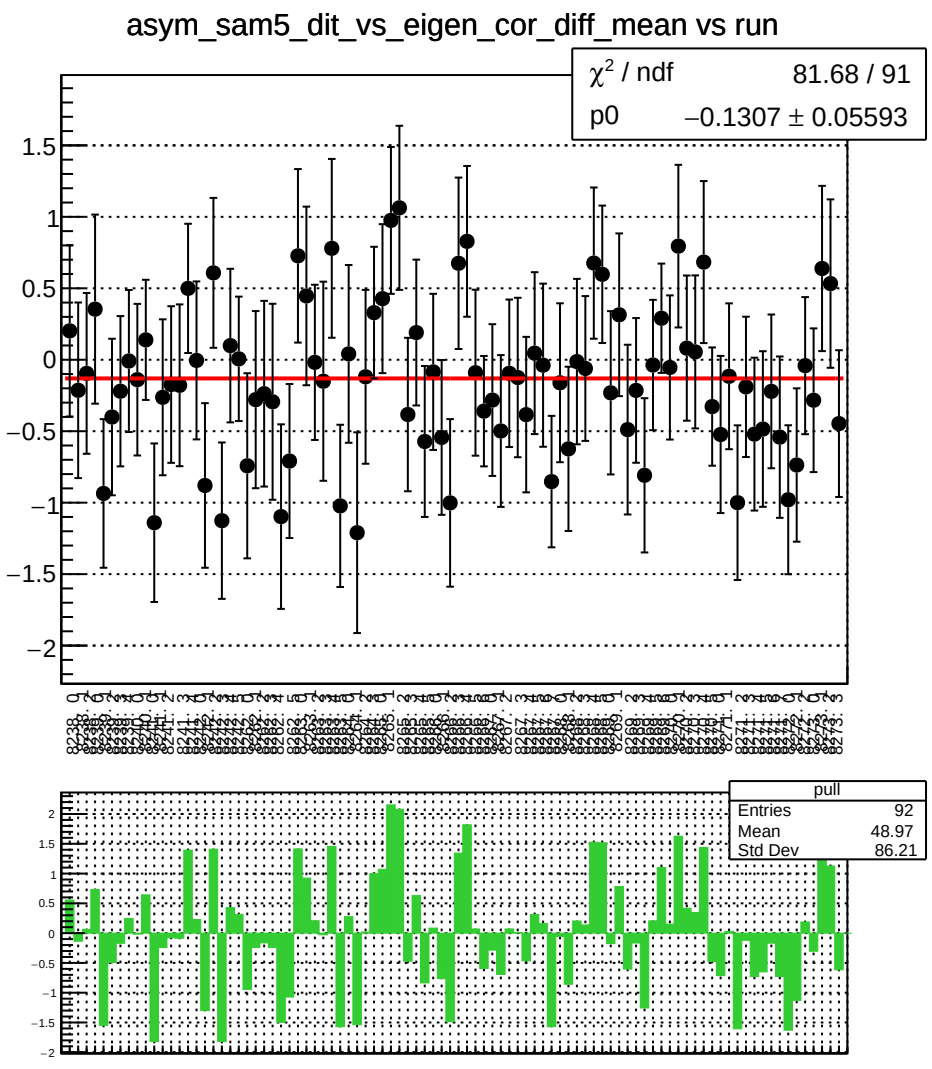

pull1D
Entries 92
Mean 0.05989
Std Dev 1.041
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

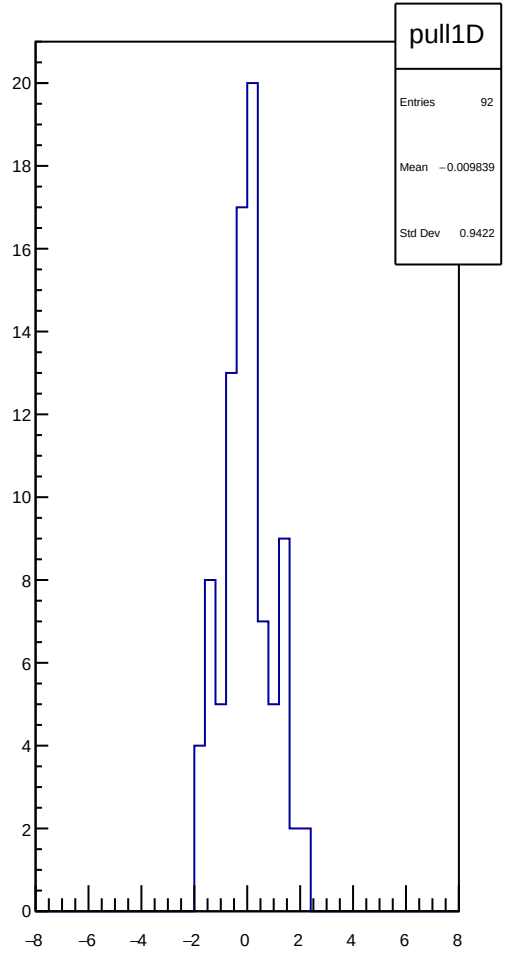

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.05e+06 / 91
p0 3.397e−11 ± 3.967e−14
0.1
0.08
0.06
0.04
0.02
0

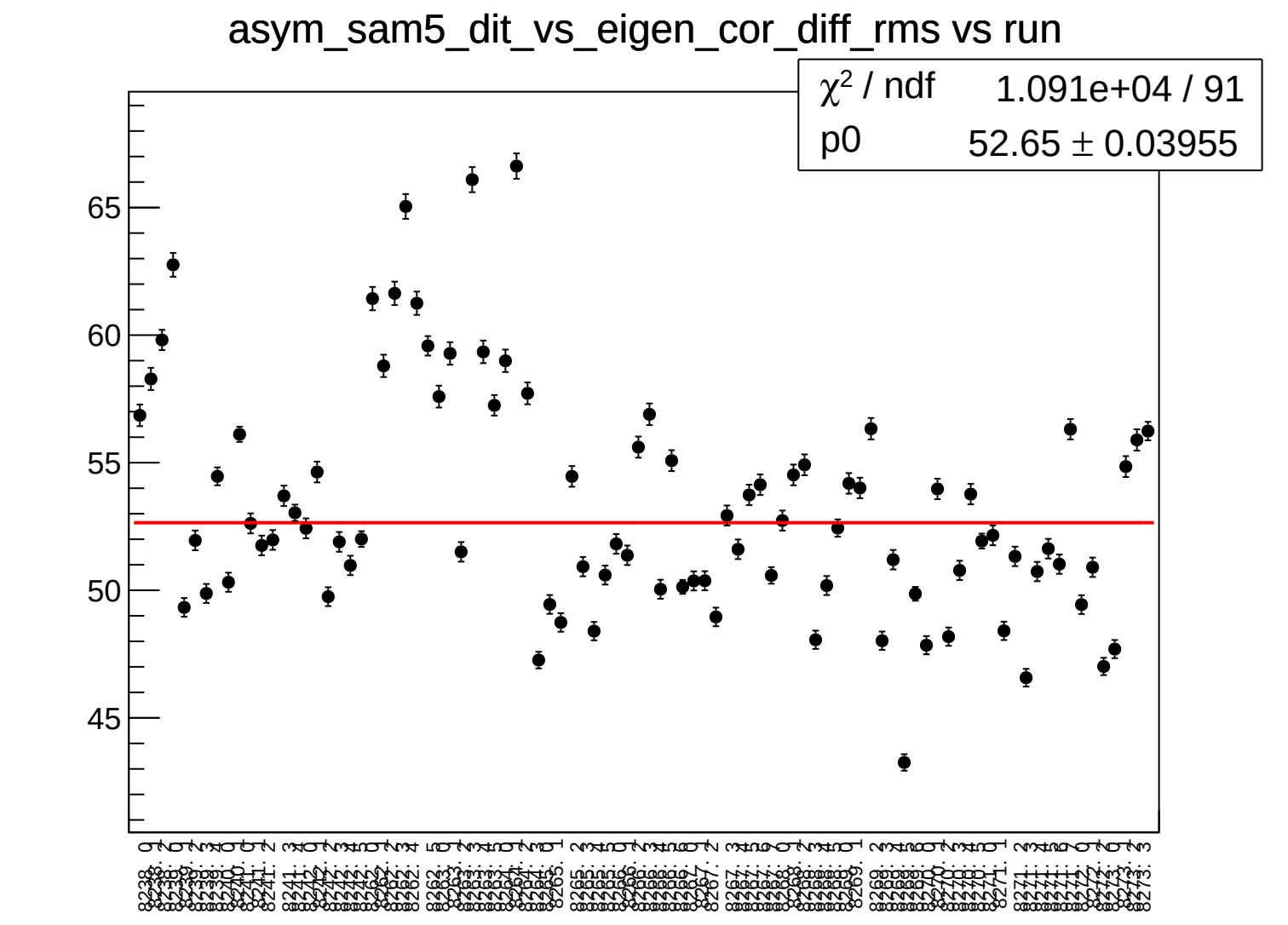

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 81.68 / 91
p0 −0.1307 ± 0.05593
pull
Entries 92
Mean 48.97
Std Dev 86.21

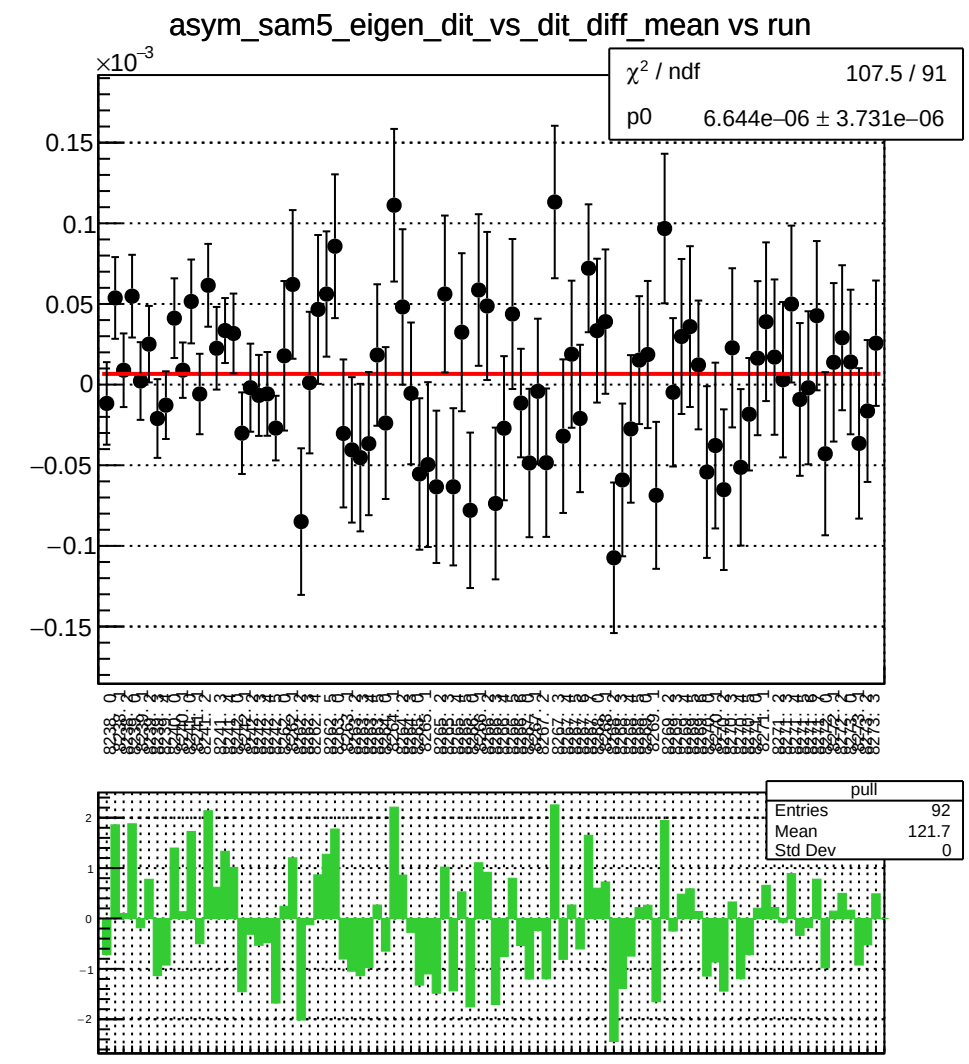

pull1D
Entries 92
Mean −0.009839
Std Dev 0.9422

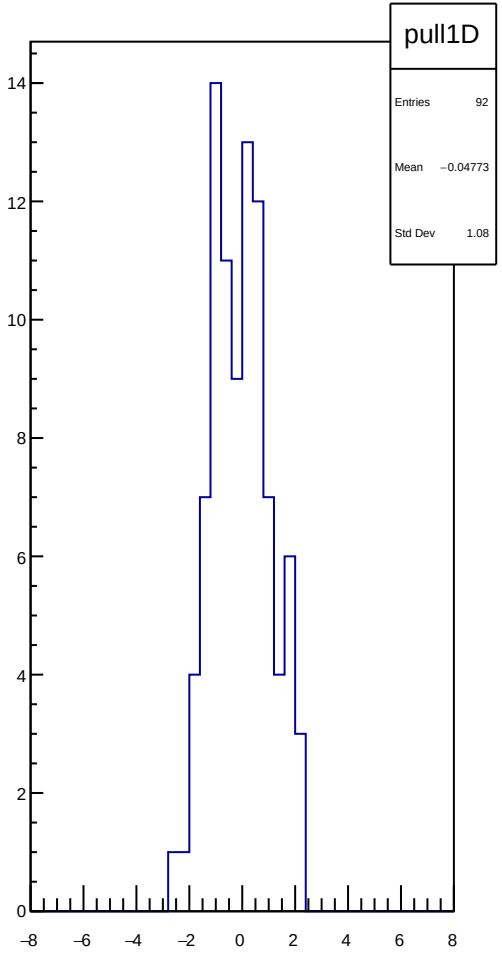

asym_sam5_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.091e+04 / 91
p0 52.65 ± 0.03955
65
60
55
50
45

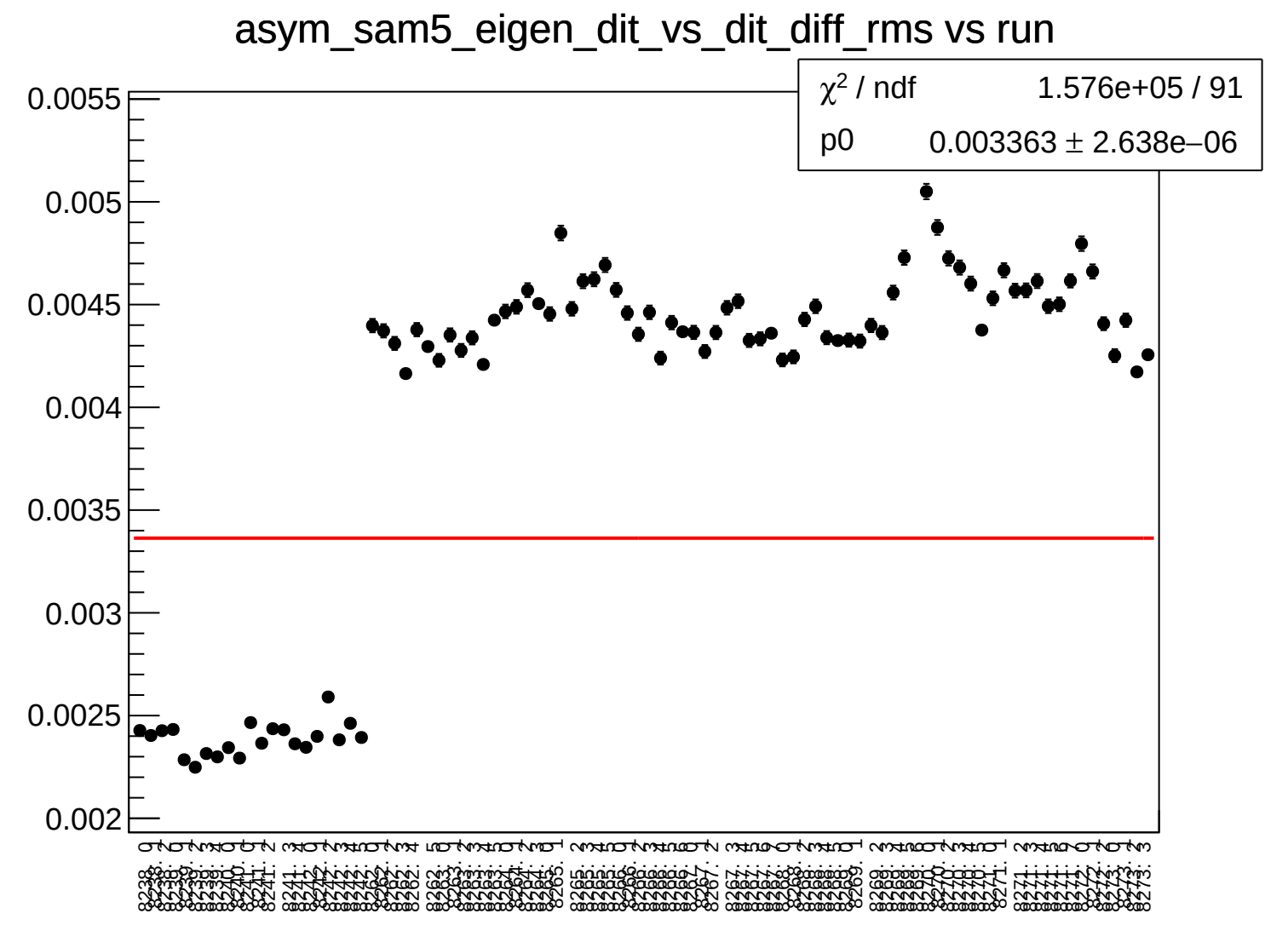

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.68 / 91
p0 −0.1307 ± 0.05593
pull
Entries 92
Mean 48.97
Std Dev 86.21

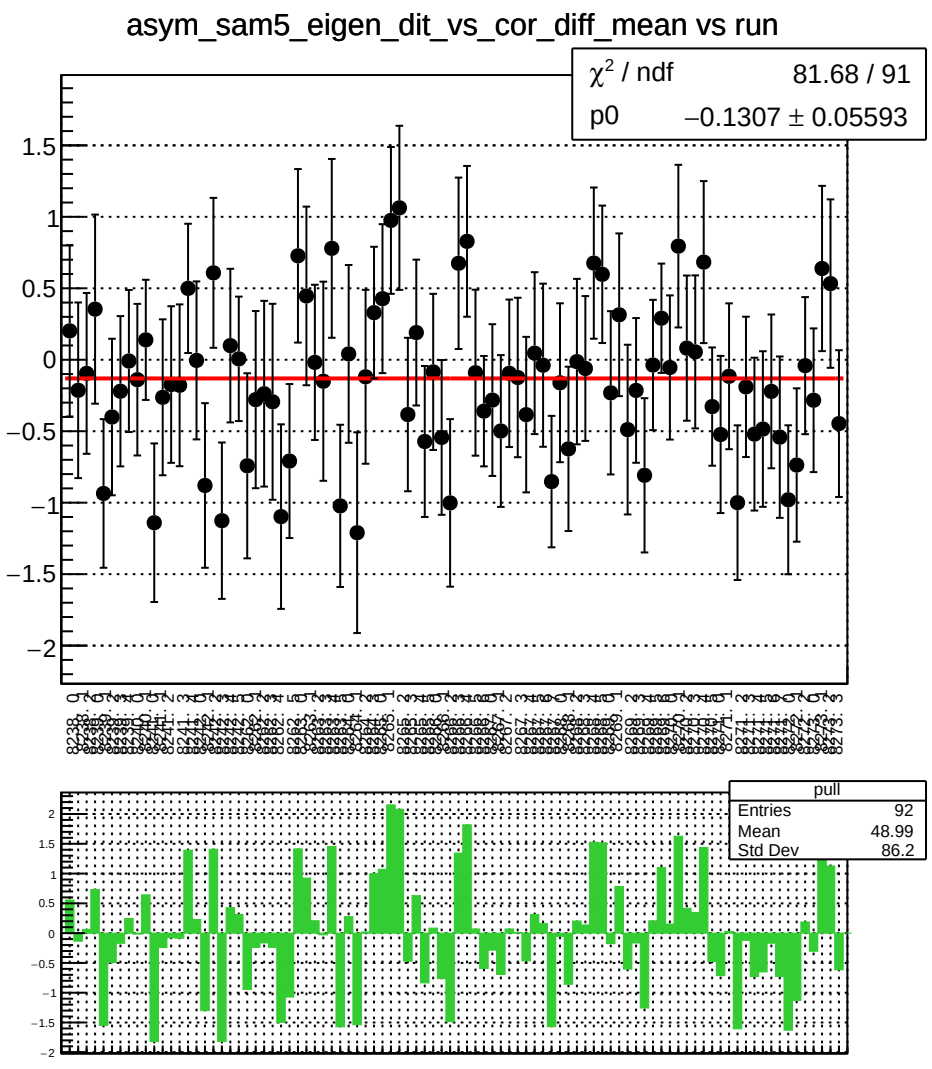

pull1D
Entries 92
Mean −0.009839
Std Dev 0.9422

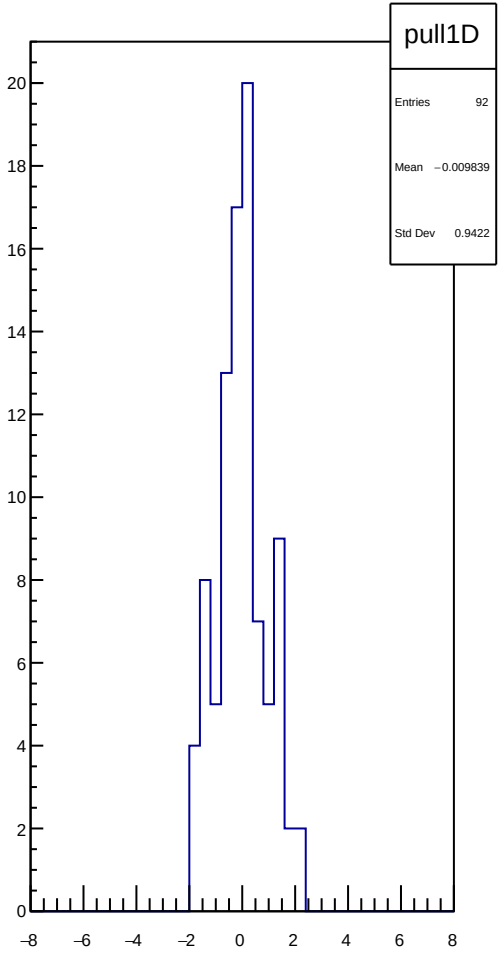

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 1.091e+04 / 91
p0 52.65 ± 0.03955
65
60
55
50
45

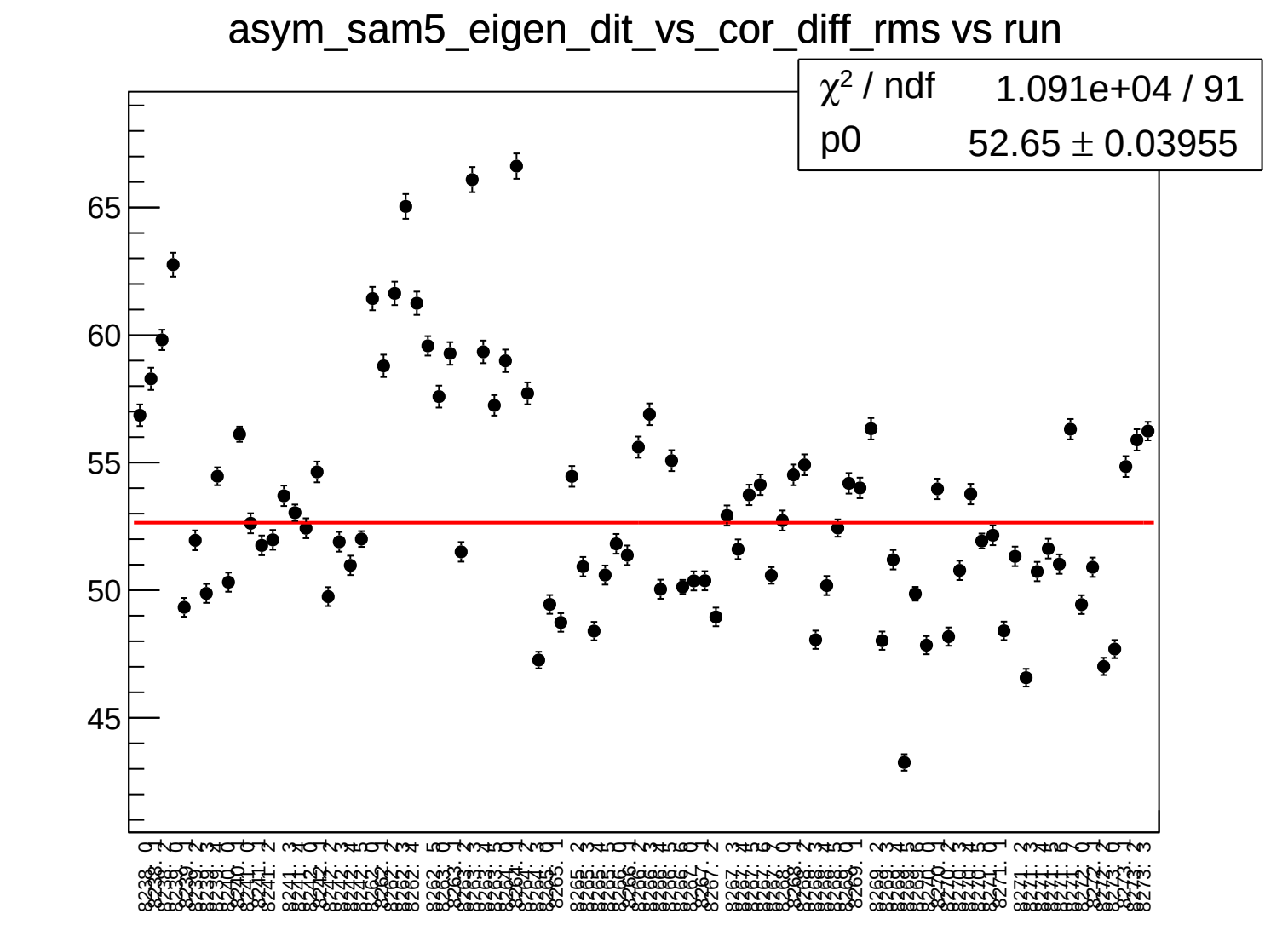

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.5 / 91
p0 6.644e−06 ± 3.731e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean 121.7
Std Dev 0
2
1
0
−1
−2

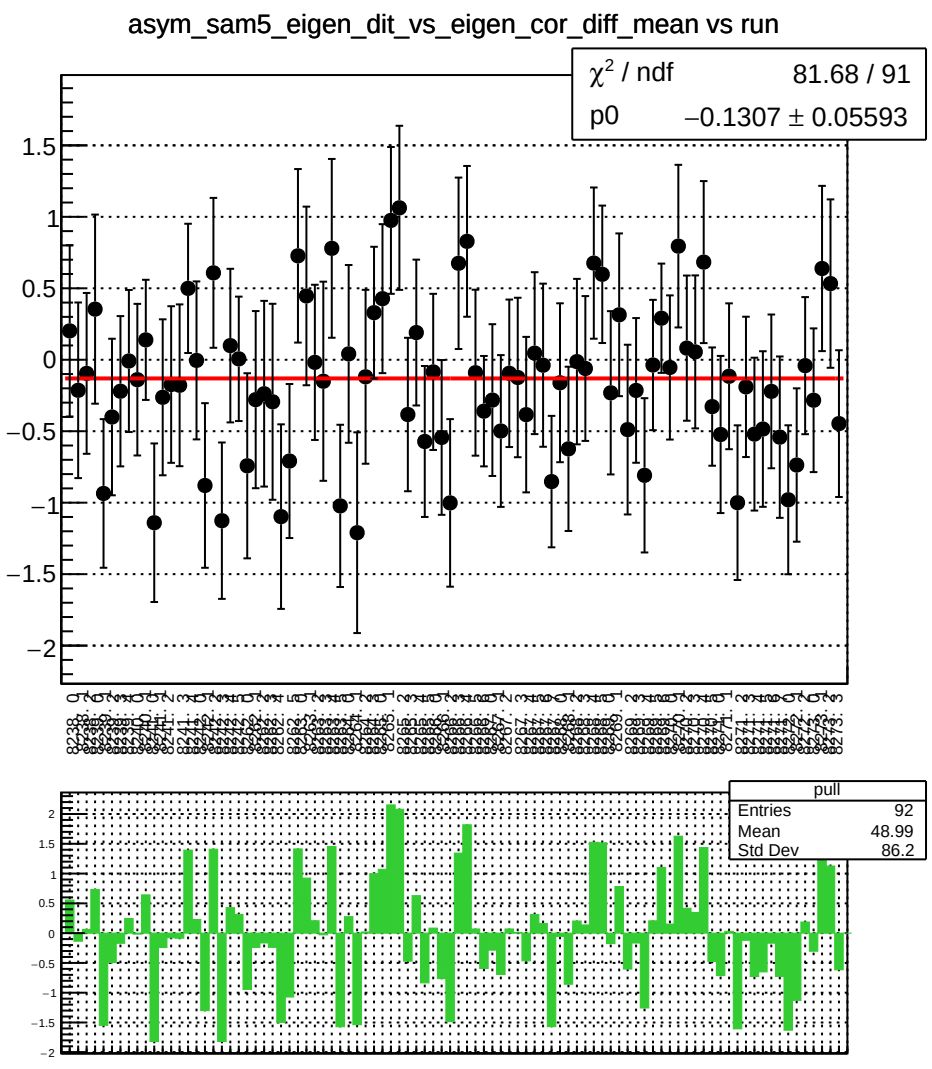

pull1D
Entries 92
Mean −0.04773
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

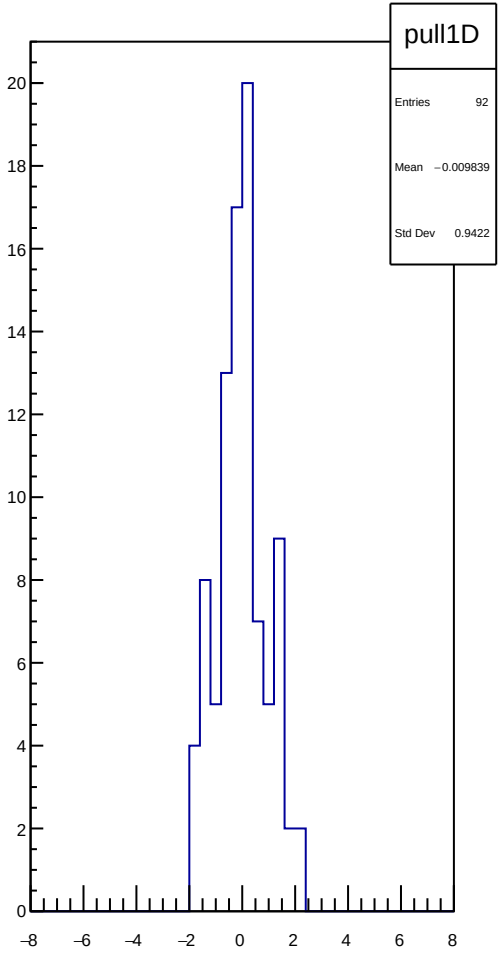

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.576e+05 / 91
p0 0.003363 ± 2.638e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

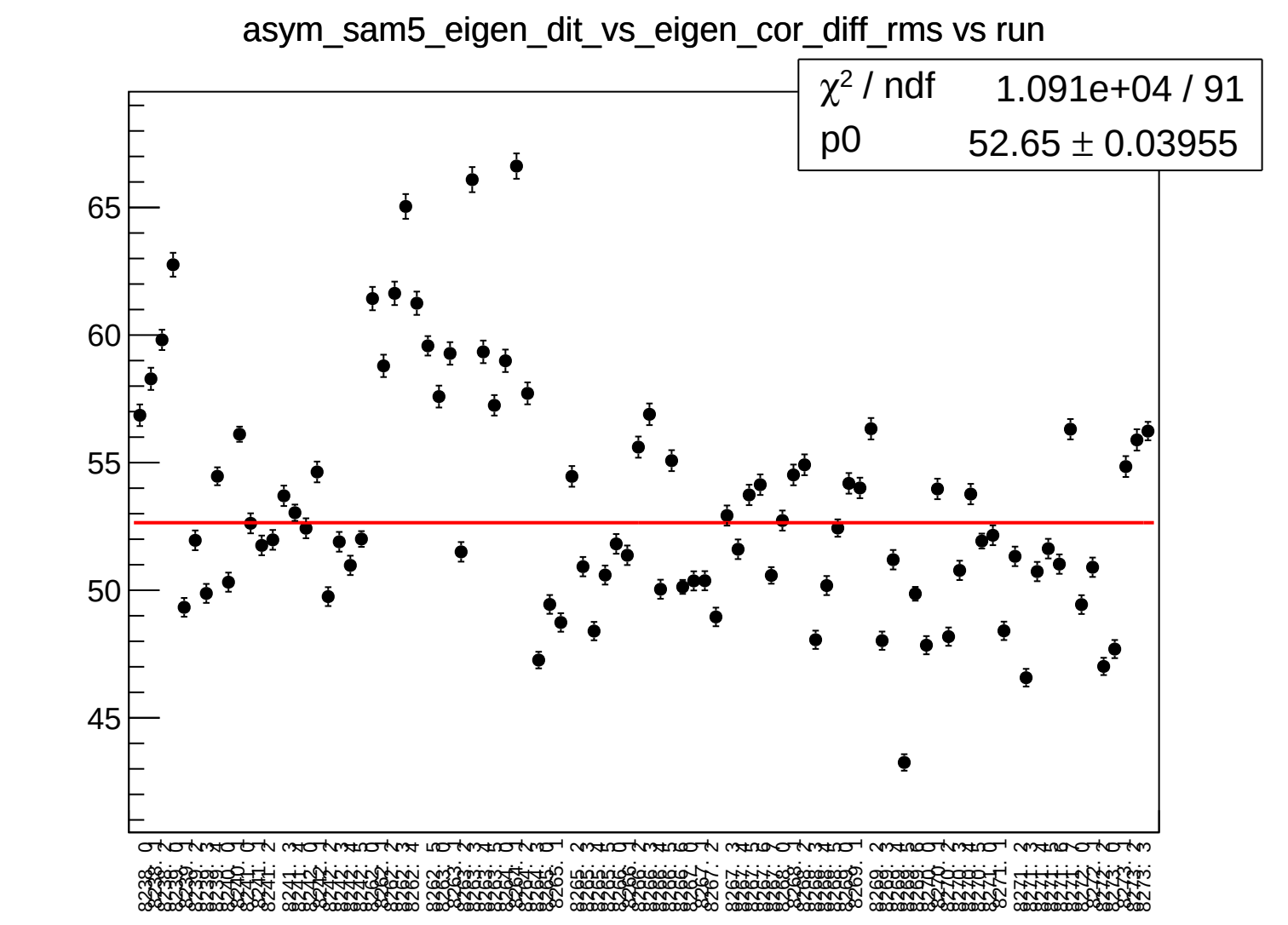

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.68 / 91
p0 −0.1307 ± 0.05593
pull
Entries 92
Mean 48.99
Std Dev 86.2

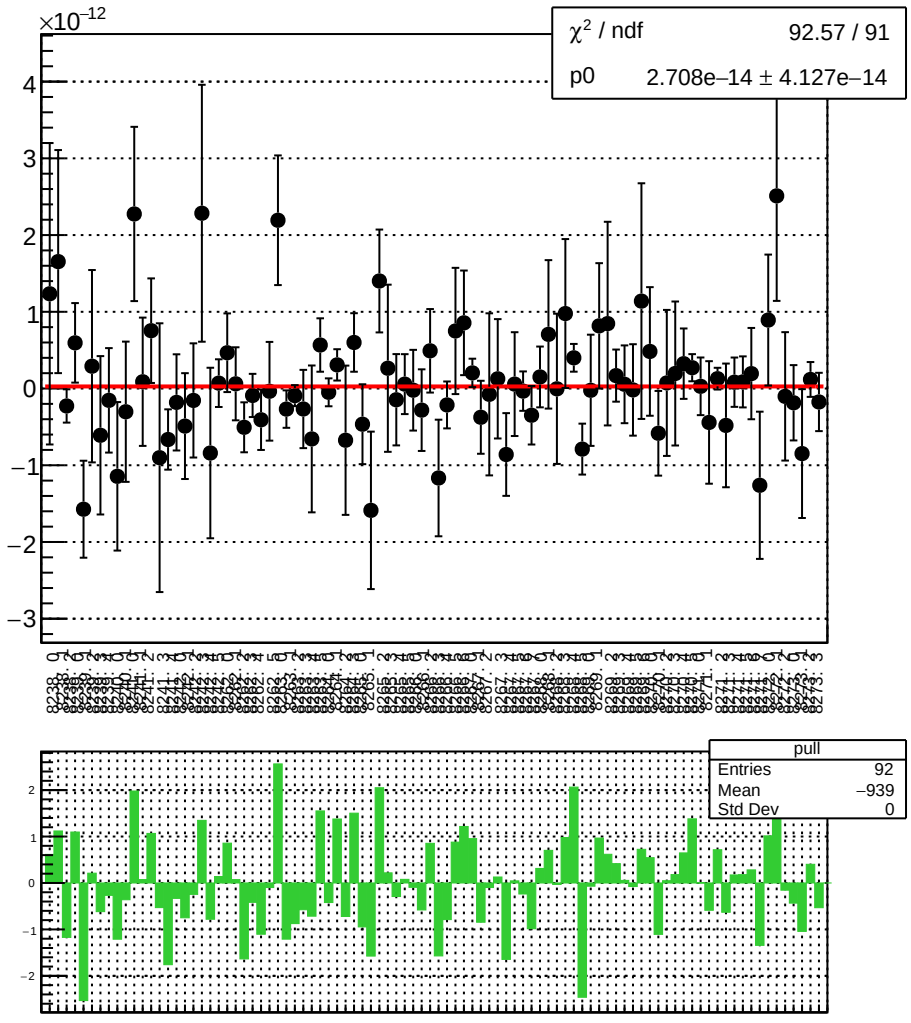

pull1D
Entries 92
Mean −0.009839
Std Dev 0.9422

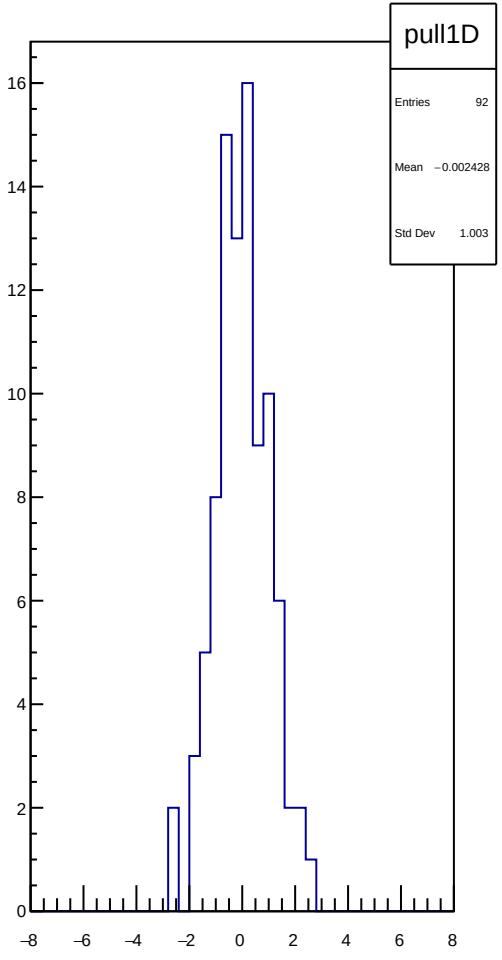

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.091e+04 / 91
p0 52.65 ± 0.03955
65
60
55
50
45

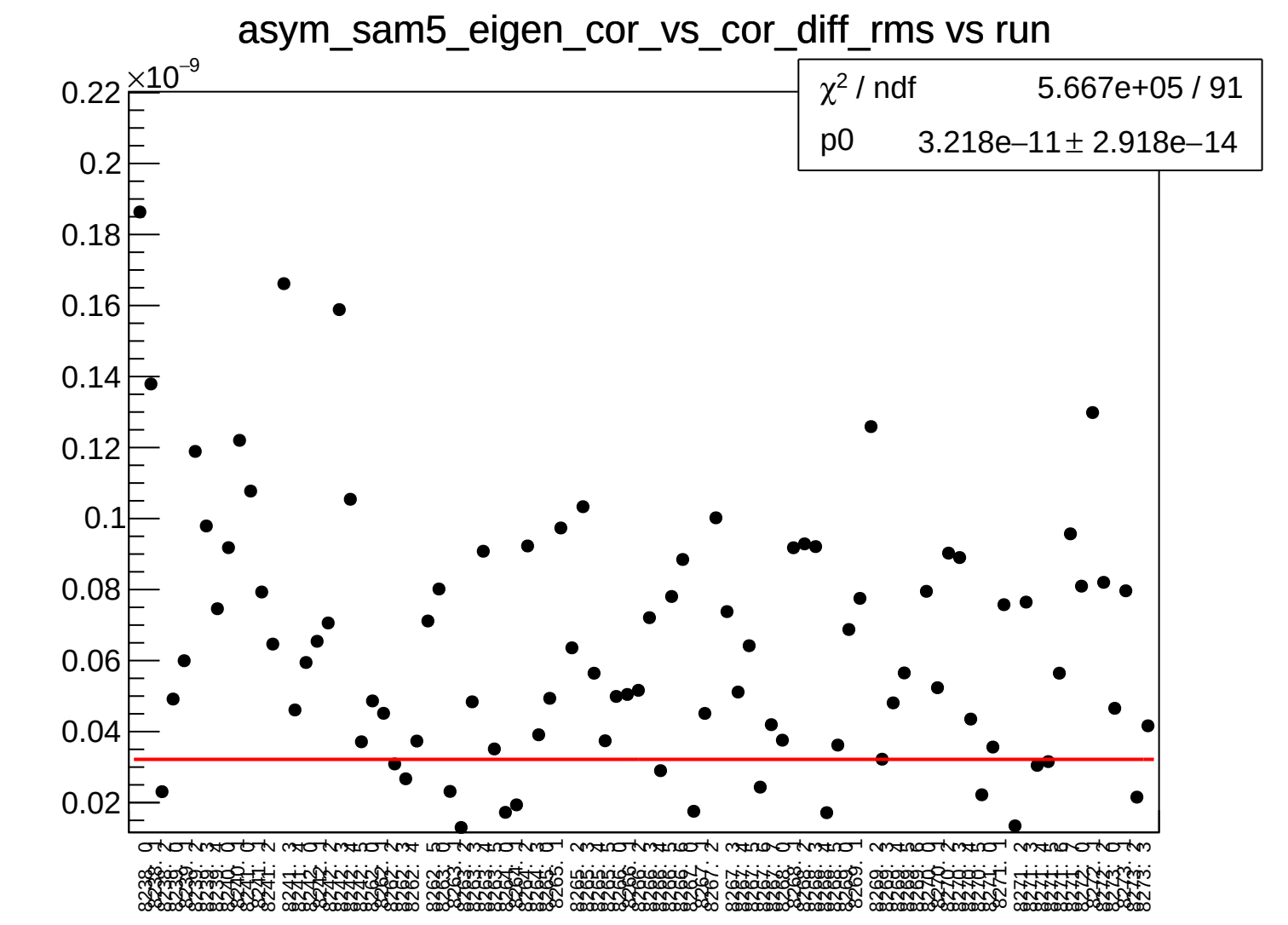

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.68 / 91
p0 −0.1307 ± 0.05593
pull
Entries 92
Mean 48.99
Std Dev 86.2

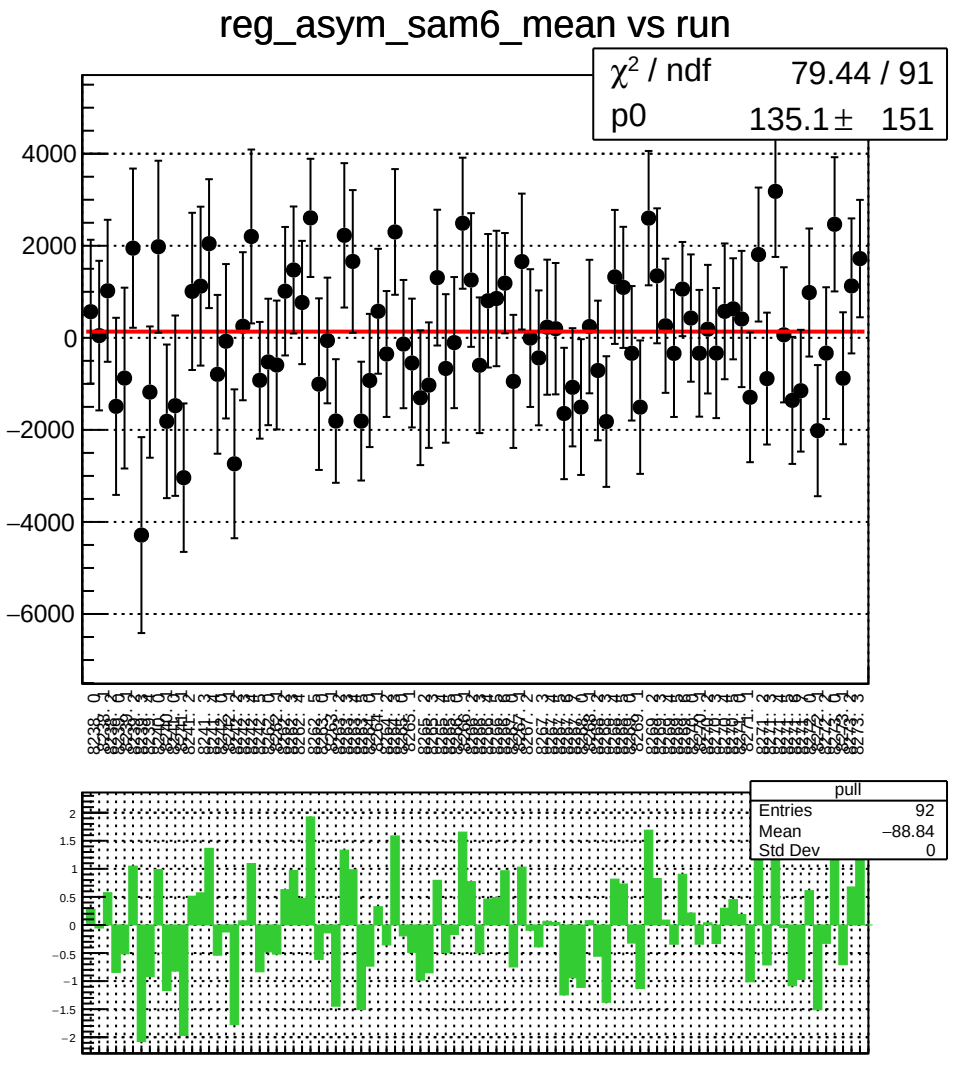

pull1D
Entries 92
Mean −0.009839
Std Dev 0.9422

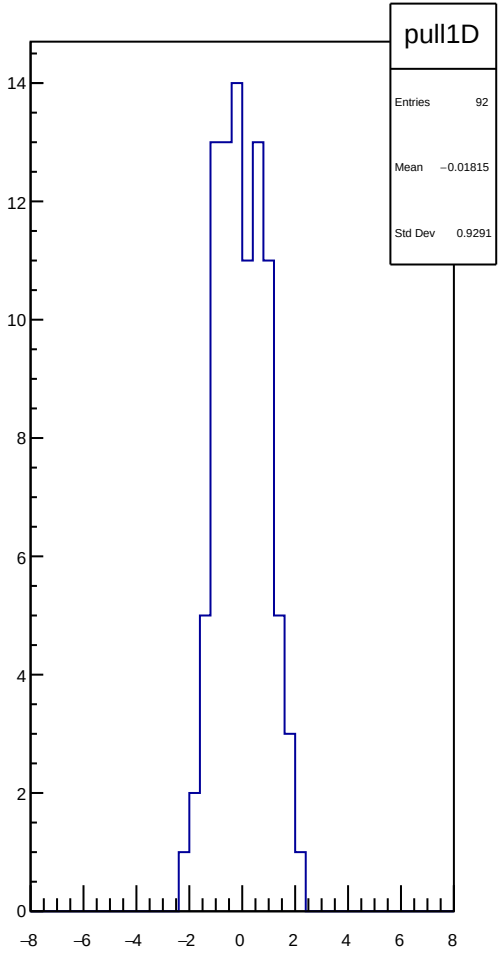

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 1.091e+04 / 91
p0 52.65 ± 0.03955
65
60
55
50
45

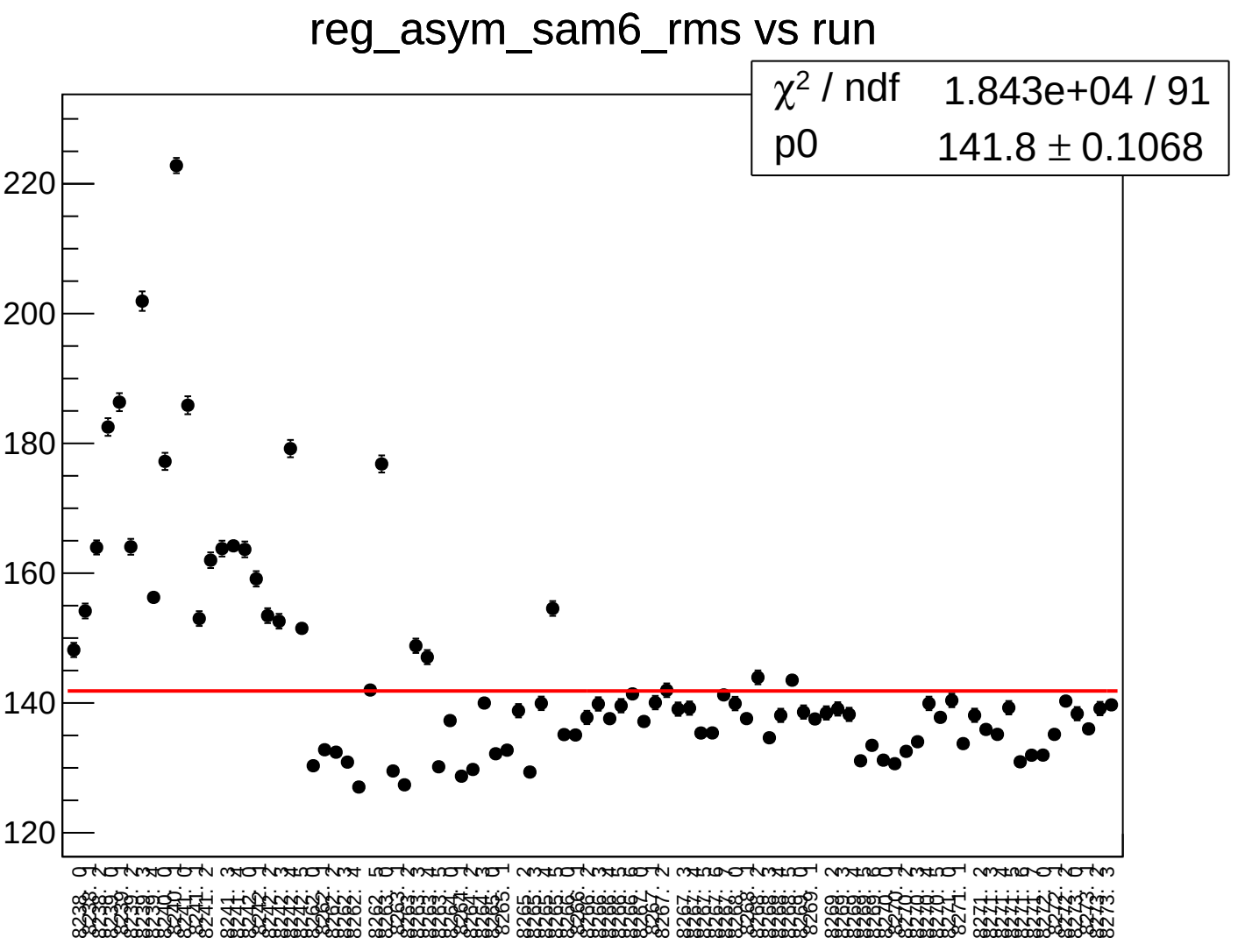

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.57 / 91
p0 2.708e−14 ± 4.127e−14
pull
Entries 92
Mean −939
Std Dev 0

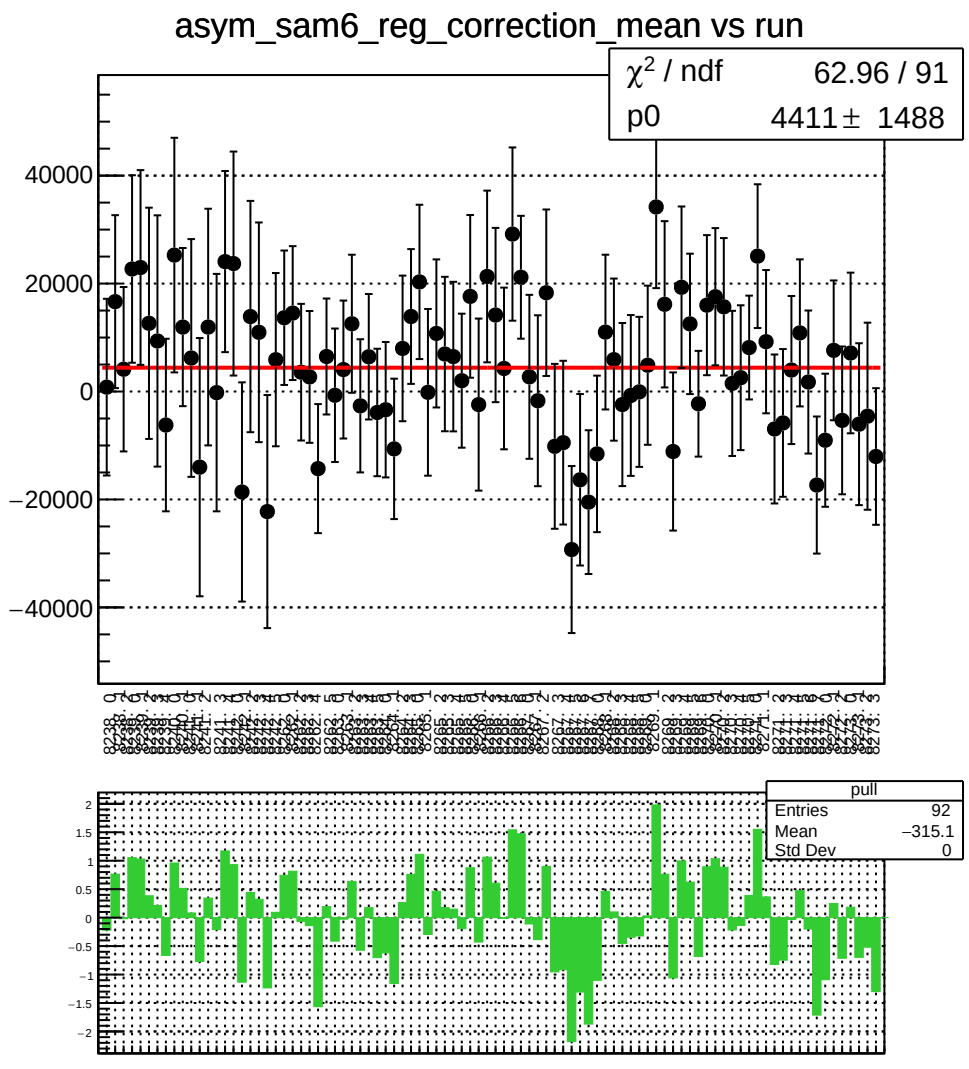

pull1D
Entries 92
Mean −0.002428
Std Dev 1.003

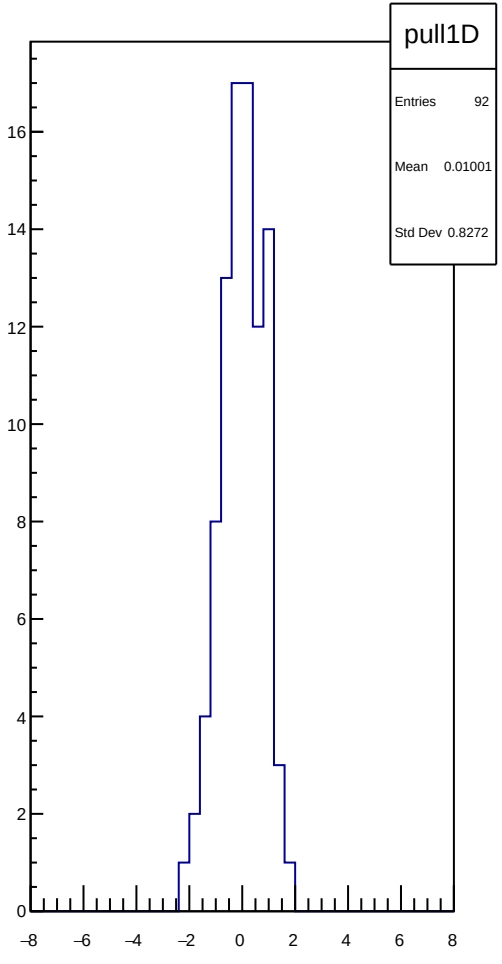

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.667e+05 / 91
p0 3.218e−11 ± 2.918e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

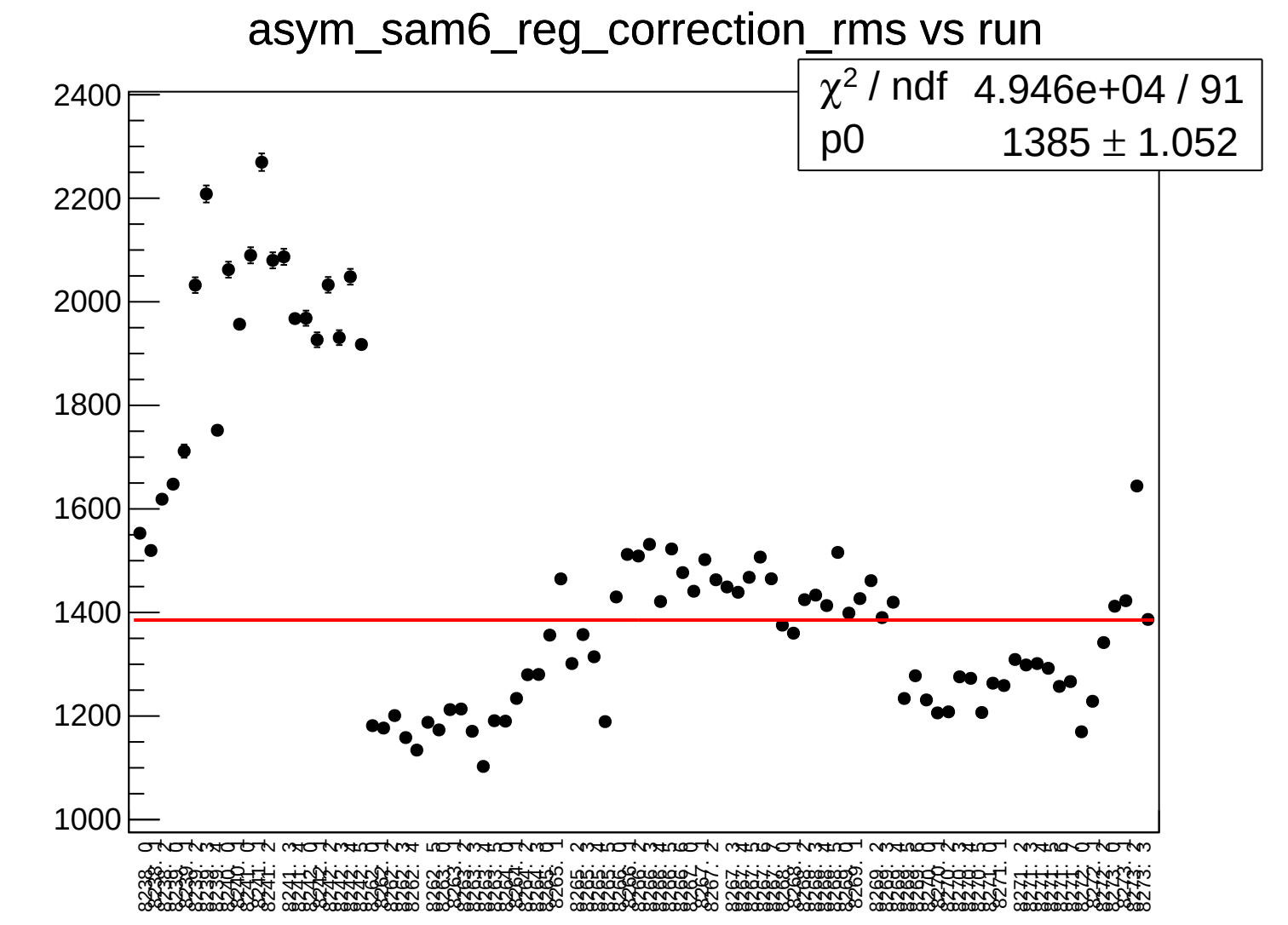

reg_asym_sam6_mean vs run
χ² / ndf 79.44 / 91
p0 135.1 ± 151
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −88.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

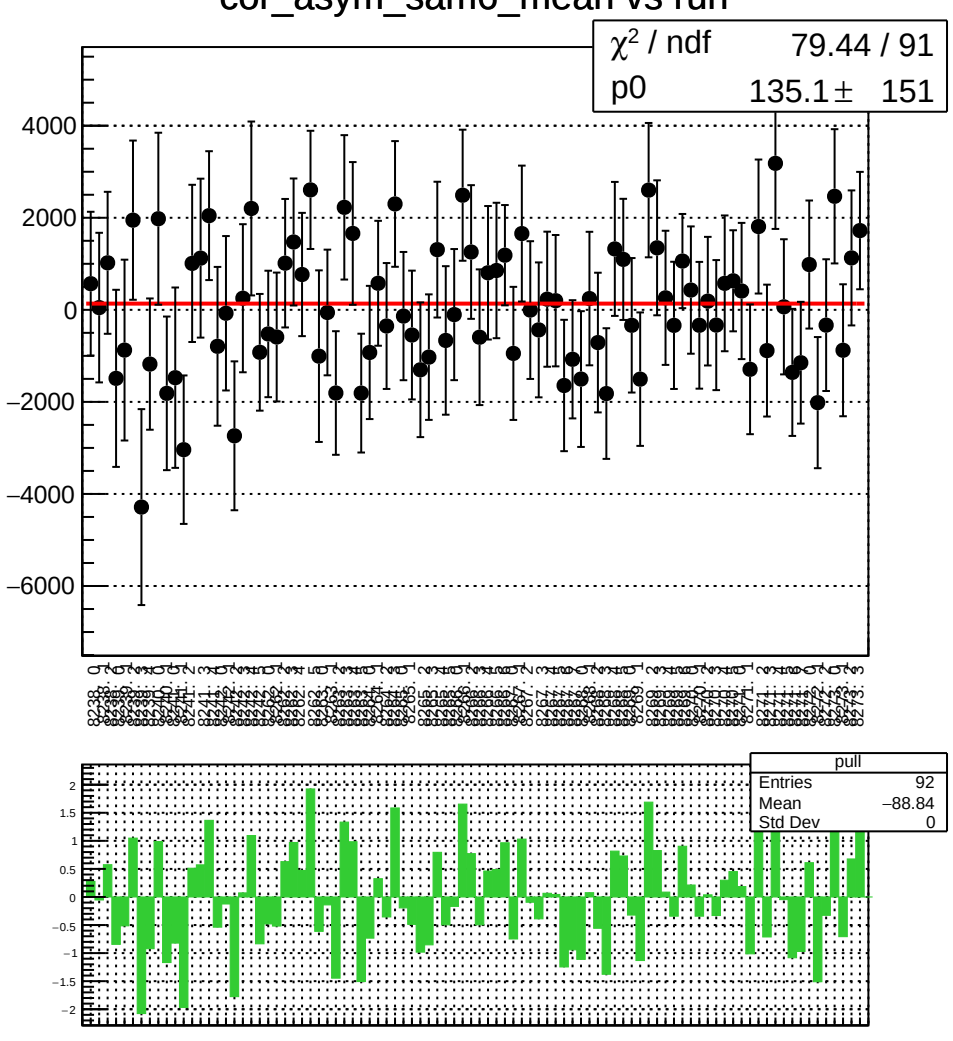

pull1D
Entries 92
Mean −0.01815
Std Dev 0.9291
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

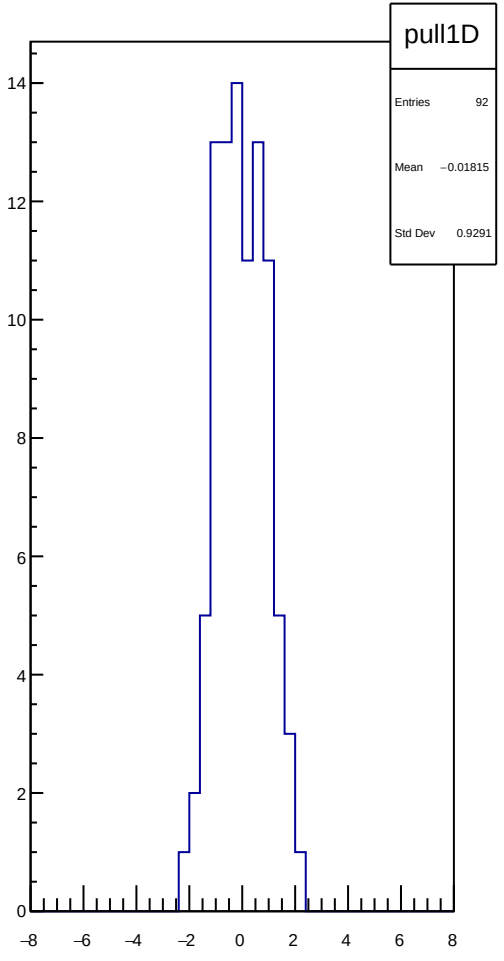

reg_asym_sam6_rms vs run
χ² / ndf 1.843e+04 / 91
p0 141.8 ± 0.1068
220
200
180
160
140
120

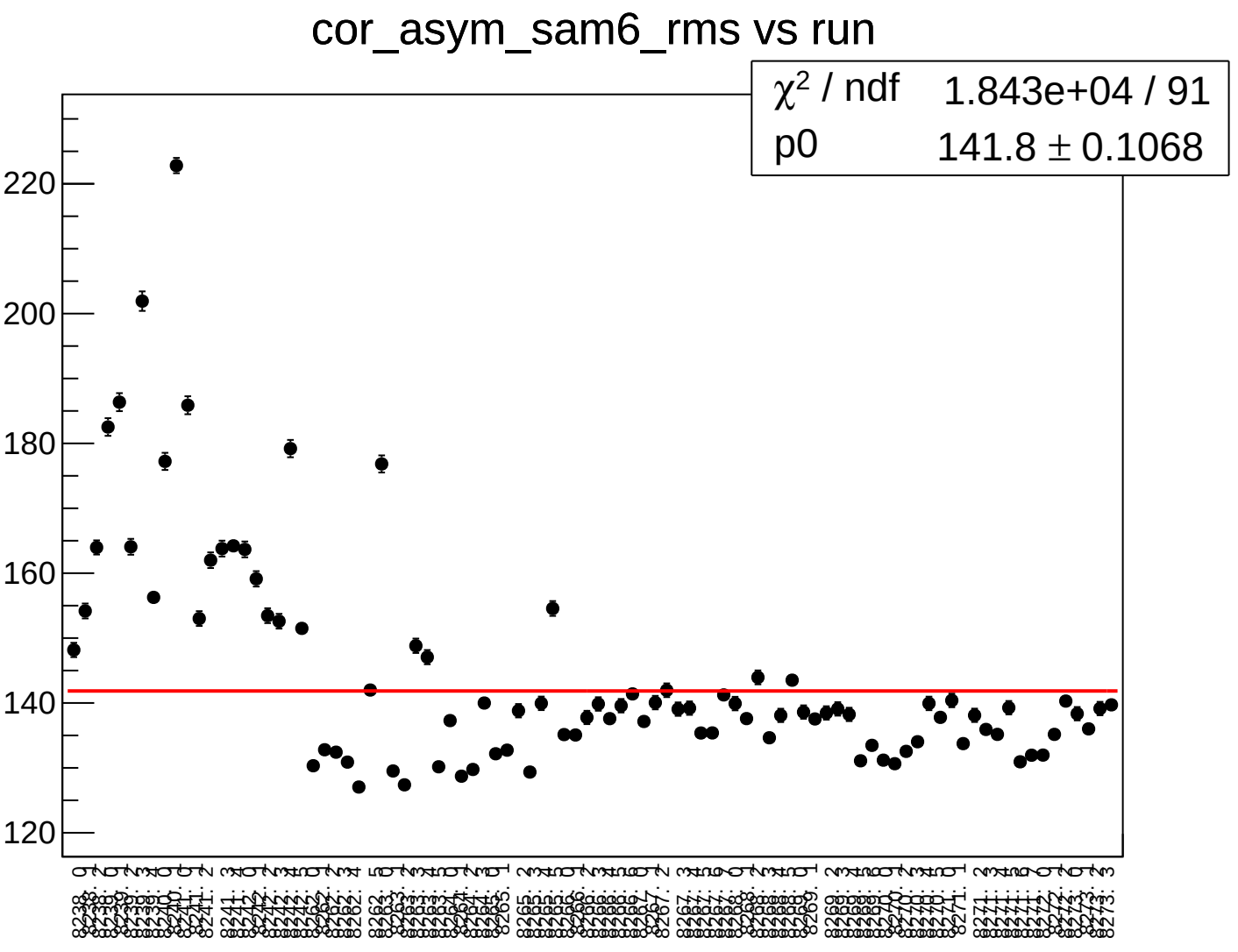

asym_sam6_reg_correction_mean vs run
χ² / ndf 62.96 / 91
p0 4411 ± 1488
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −315.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

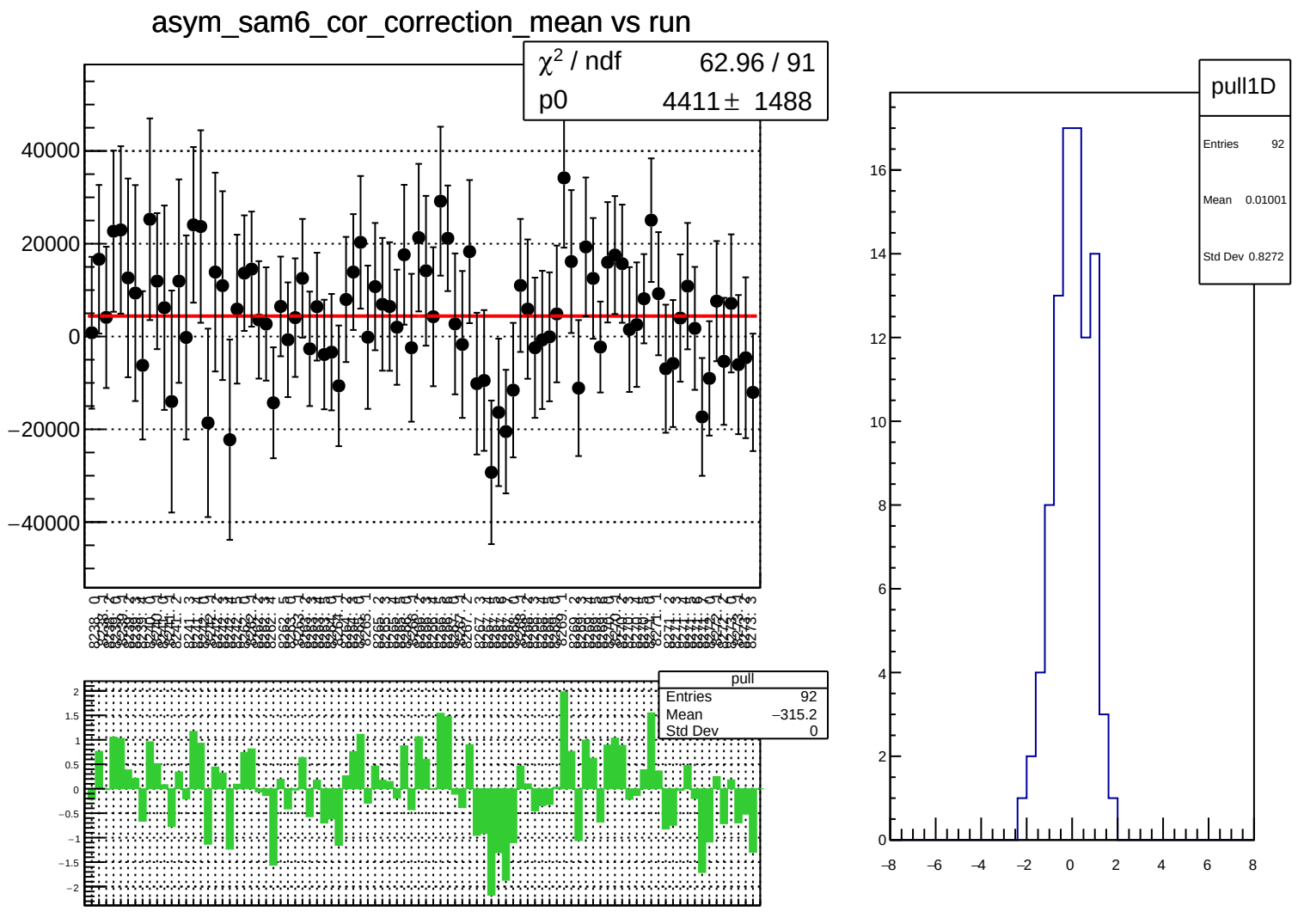

pull1D
Entries 92
Mean 0.01001
Std Dev 0.8272
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

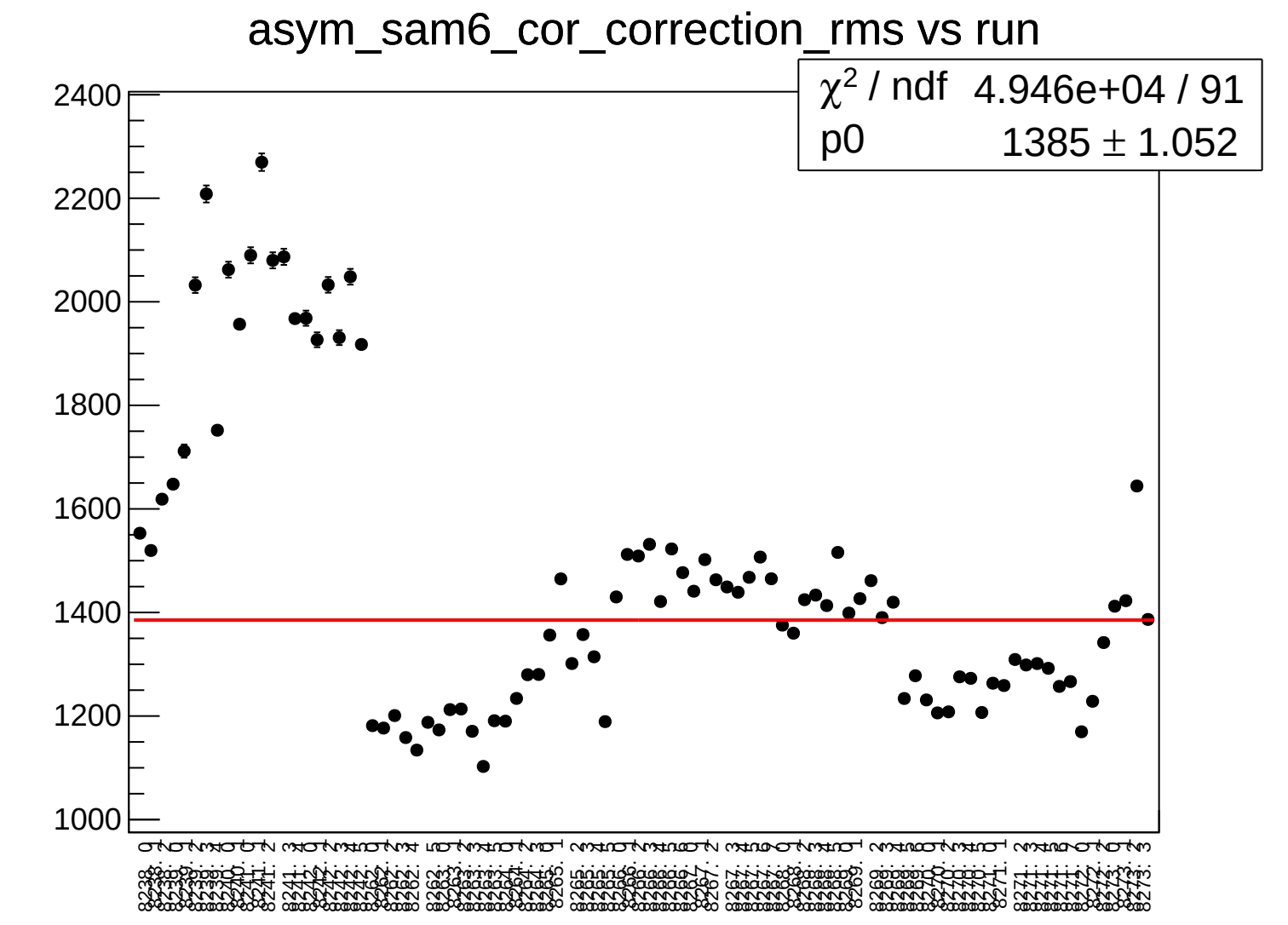

asym_sam6_reg_correction_rms vs run
χ² / ndf 4.946e+04 / 91
p0 1385 ± 1.052
2400
2200
2000
1800
1600
1400
1200
1000

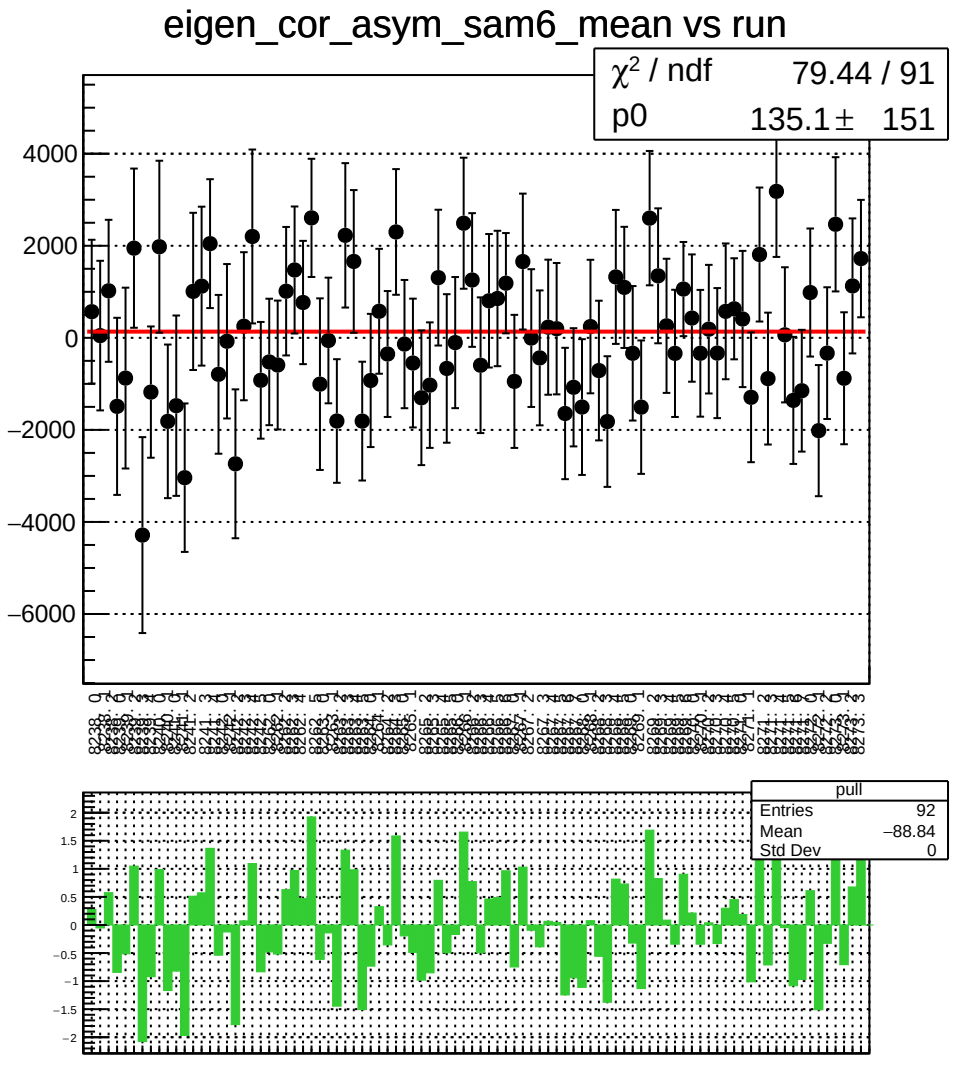

cor_asym_sam6_mean vs run
χ² / ndf 79.44 / 91
p0 135.1 ± 151
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −88.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

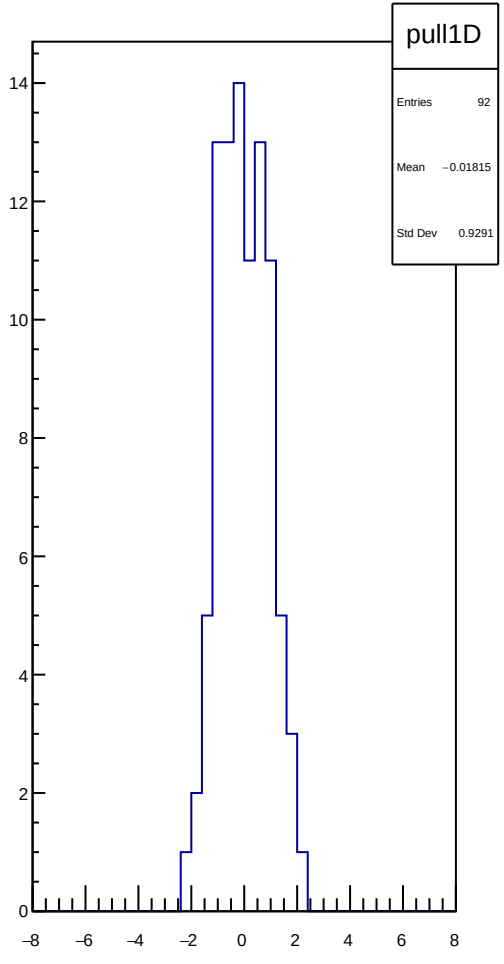

pull1D
Entries 92
Mean −0.01815
Std Dev 0.9291
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

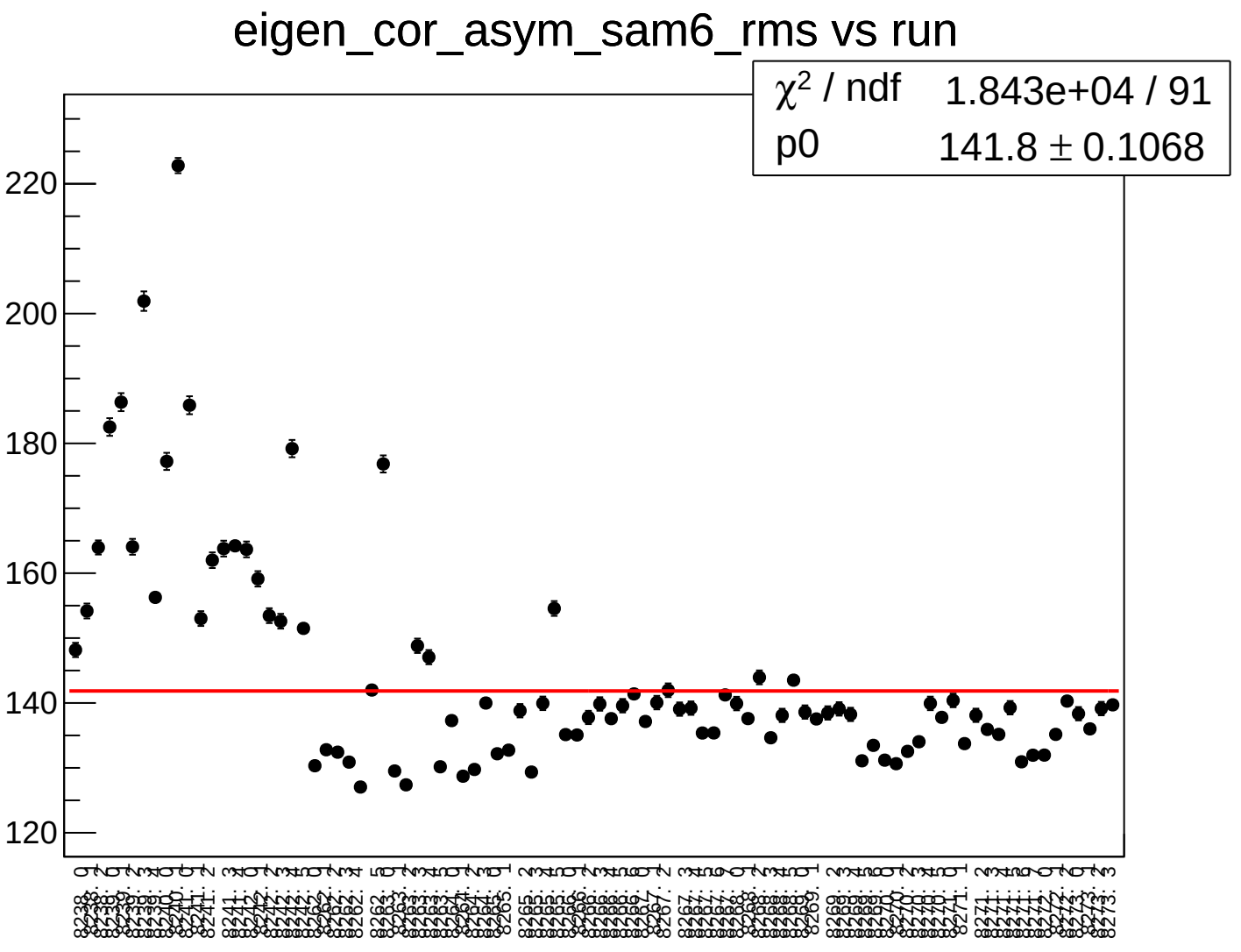

cor_asym_sam6_rms vs run
χ² / ndf 1.843e+04 / 91
p0 141.8 ± 0.1068
220
200
180
160
140
120

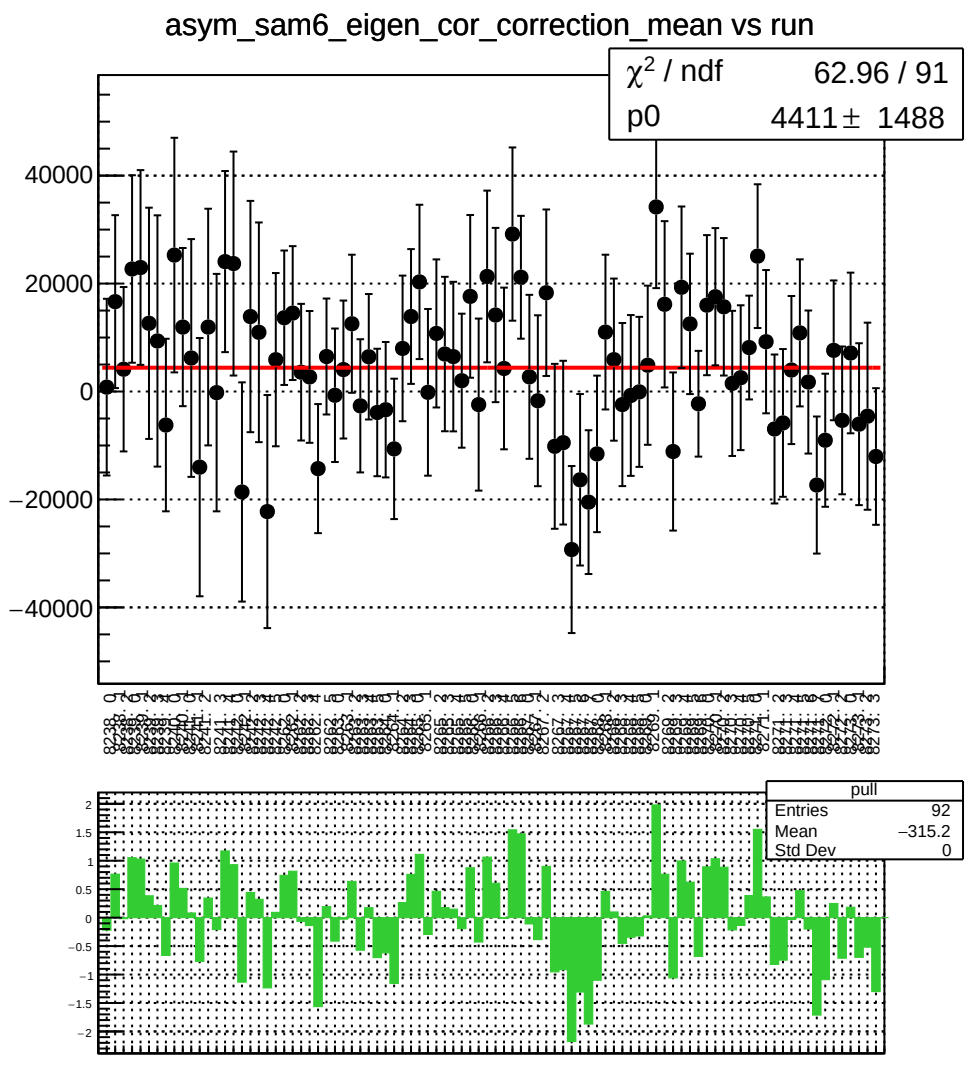

asym_sam6_cor_correction_mean vs run
χ² / ndf 62.96 / 91
p0 4411 ± 1488
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −315.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.01001
Std Dev 0.8272
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

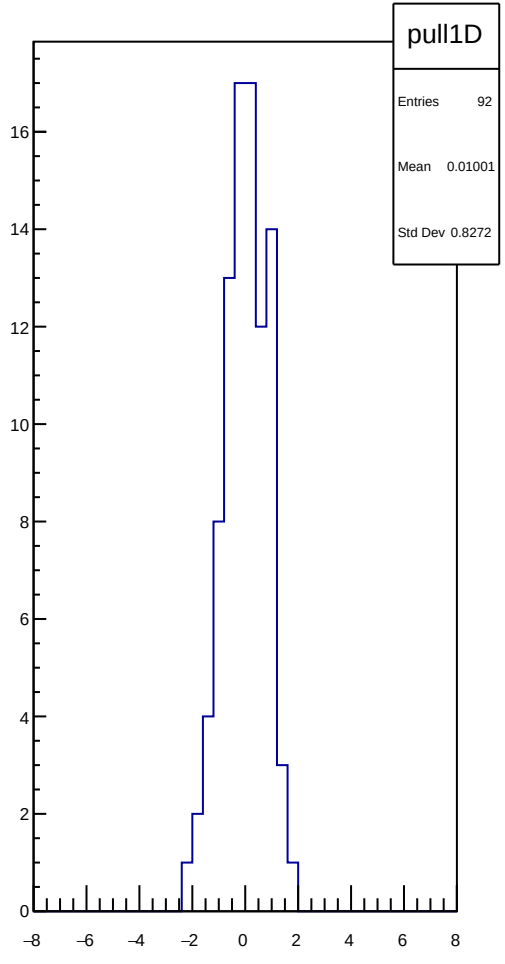

asym_sam6_cor_correction_rms vs run
χ² / ndf 4.946e+04 / 91
p0 1385 ± 1.052
2400
2200
2000
1800
1600
1400
1200
1000

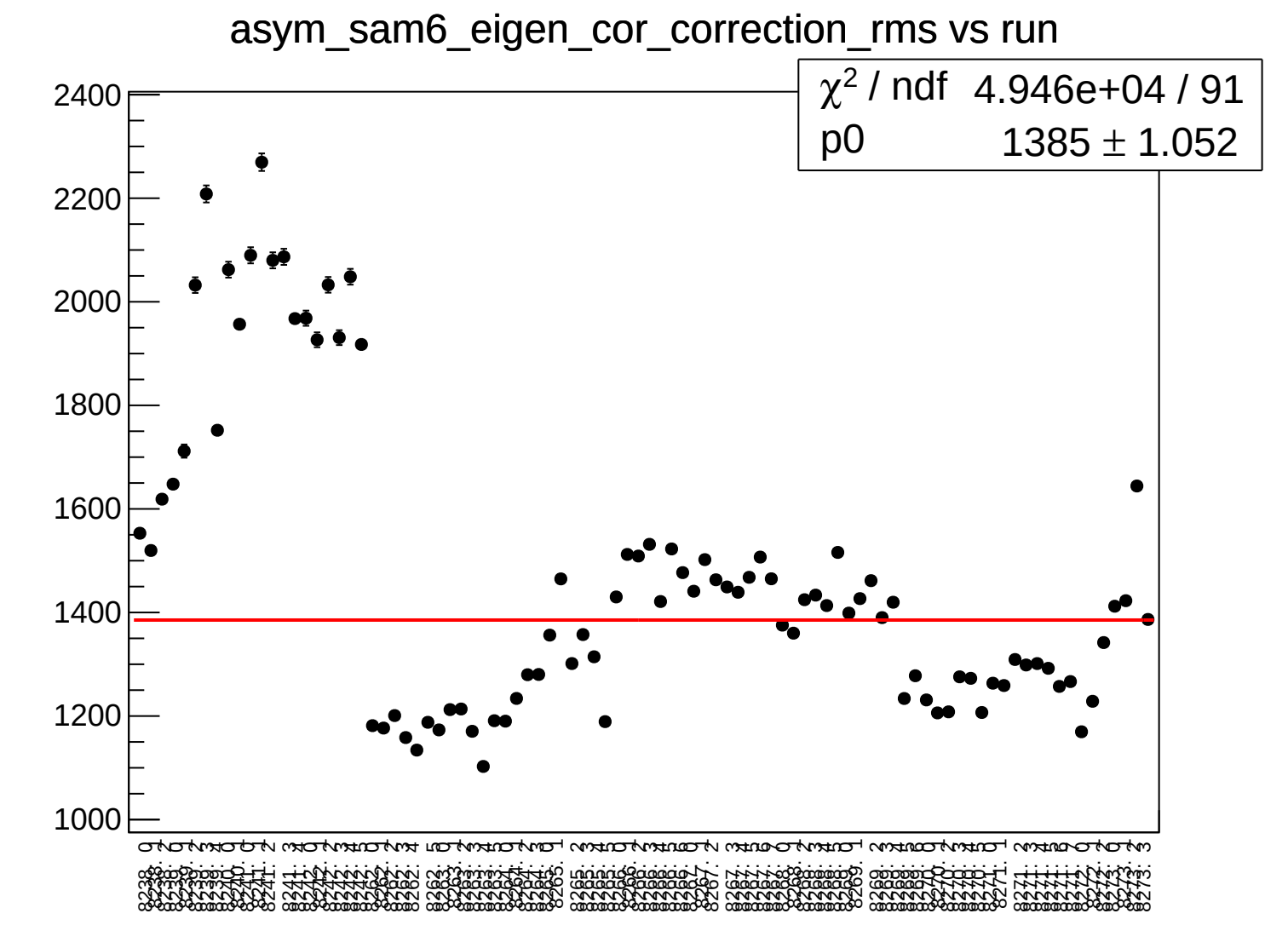

eigen_cor_asym_sam6_mean vs run
χ² / ndf 79.44 / 91
p0 135.1 ± 151
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −88.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

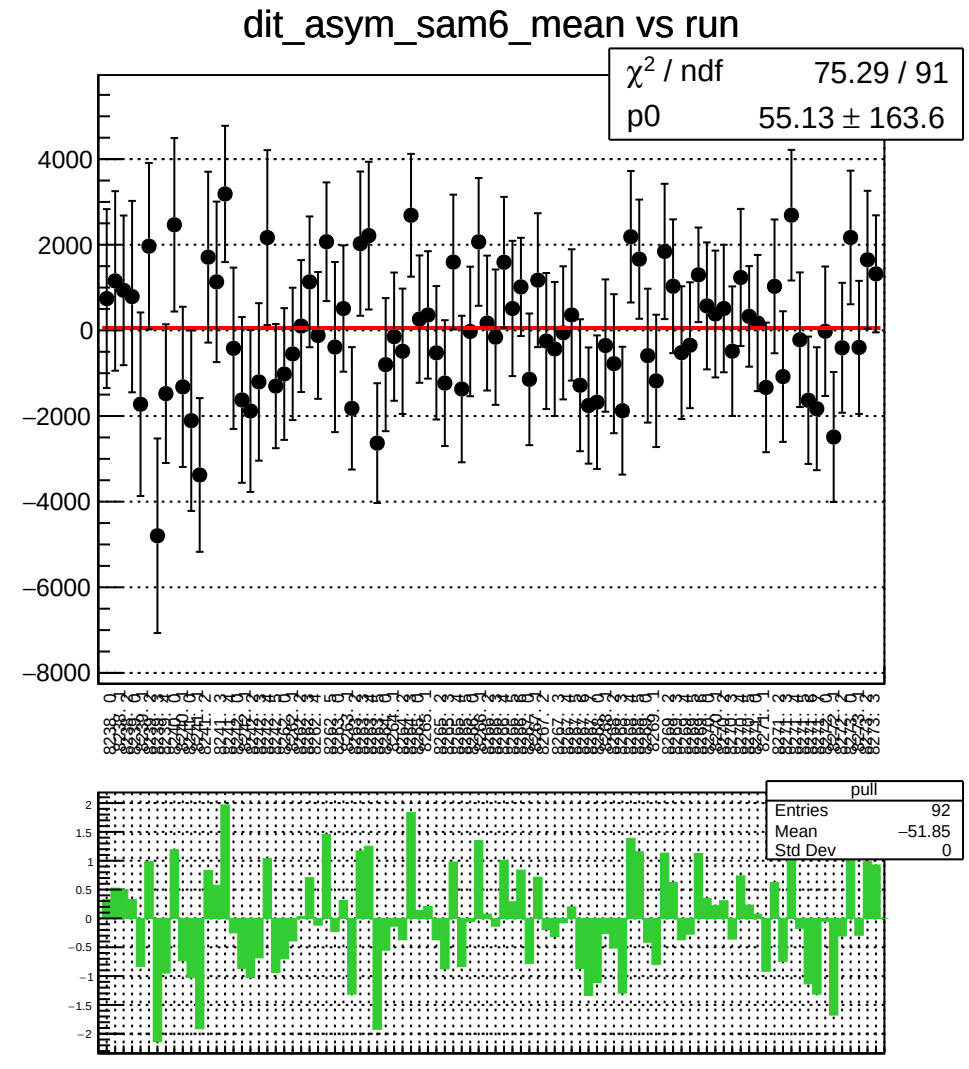

pull1D
Entries 92
Mean −0.01815
Std Dev 0.9291
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

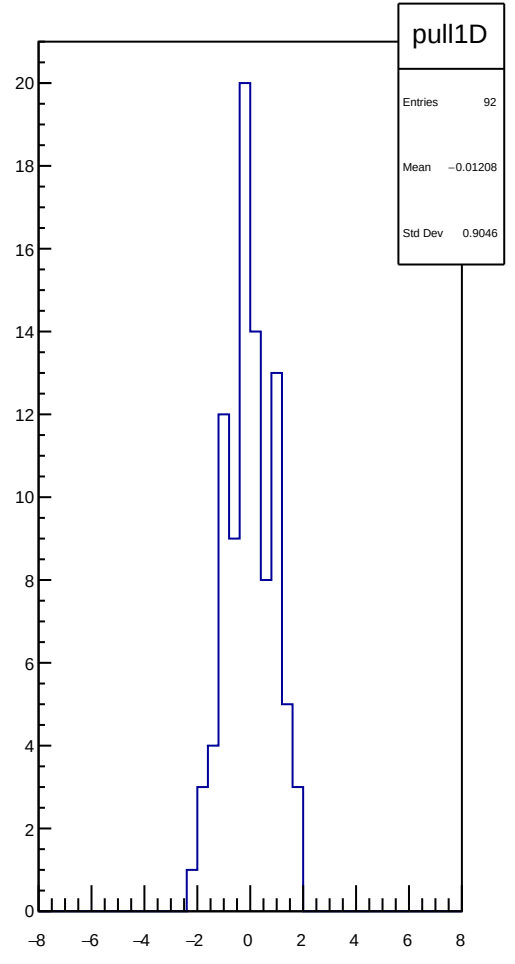

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1.843e+04 / 91
p0 141.8 ± 0.1068
220
200
180
160
140
120

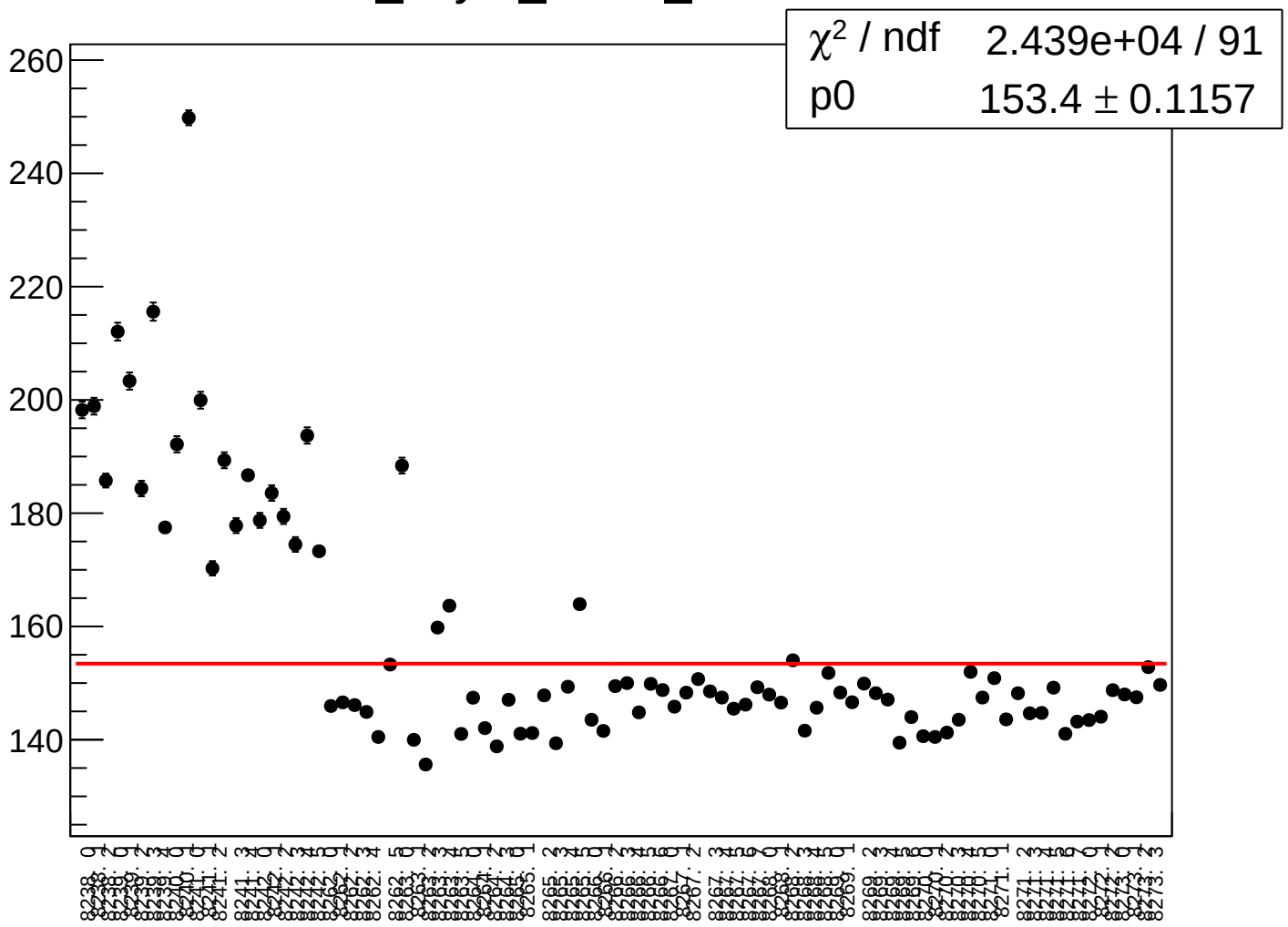

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 62.96 / 91
p0 4411 ± 1488
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −315.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

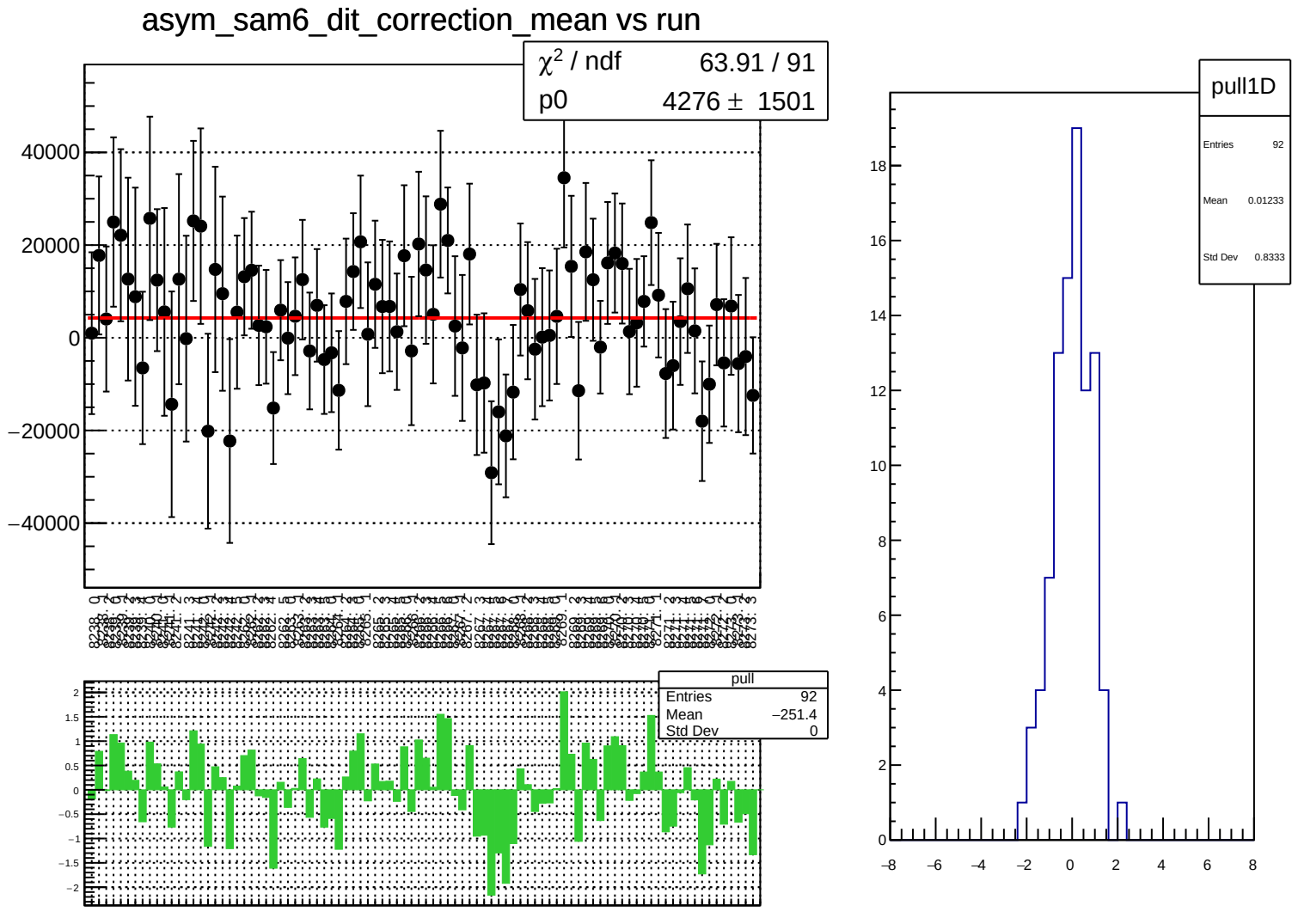

pull1D
Entries 92
Mean 0.01001
Std Dev 0.8272
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

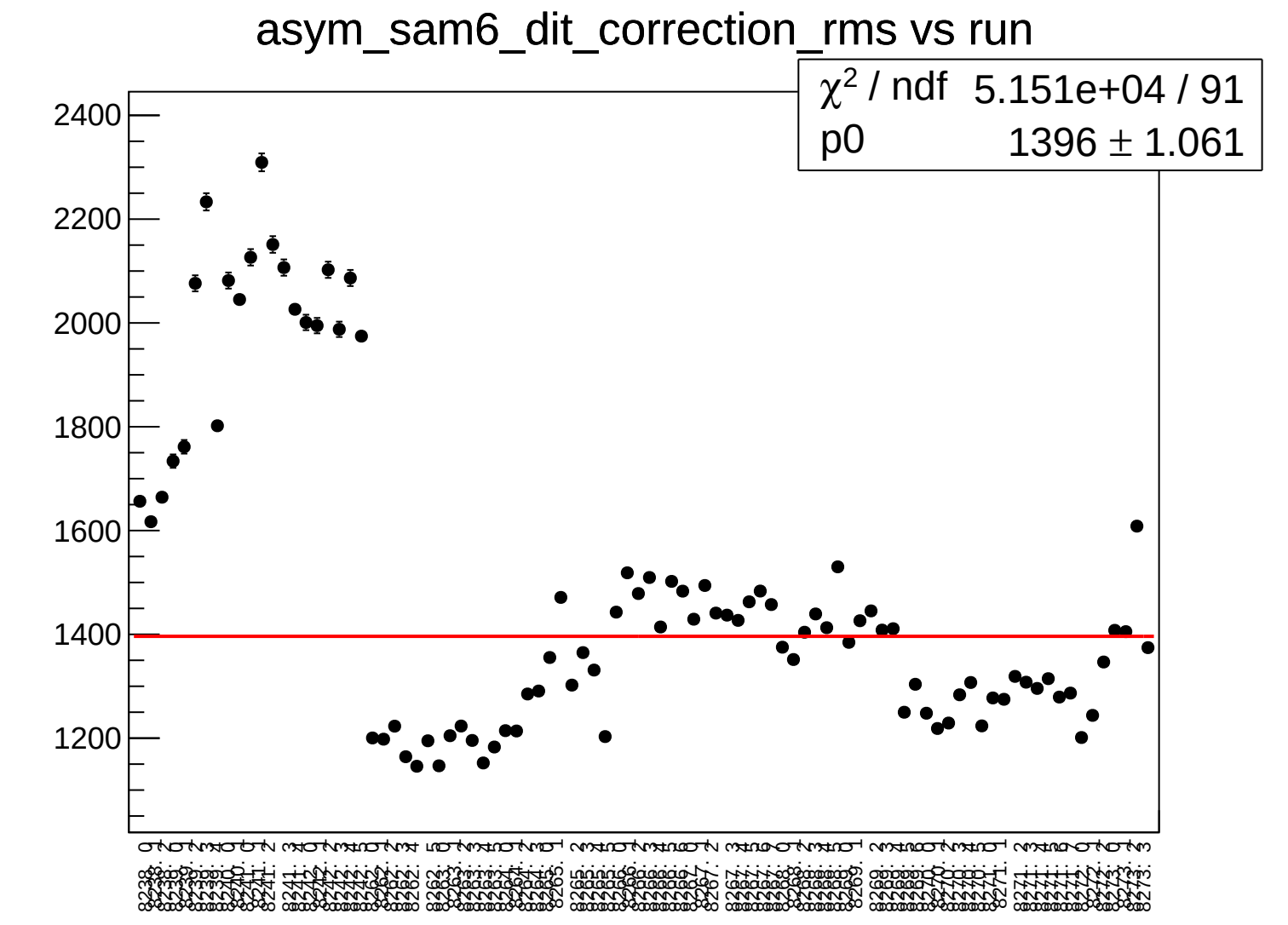

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 4.946e+04 / 91
p0 1385 ± 1.052
2400
2200
2000
1800
1600
1400
1200
1000

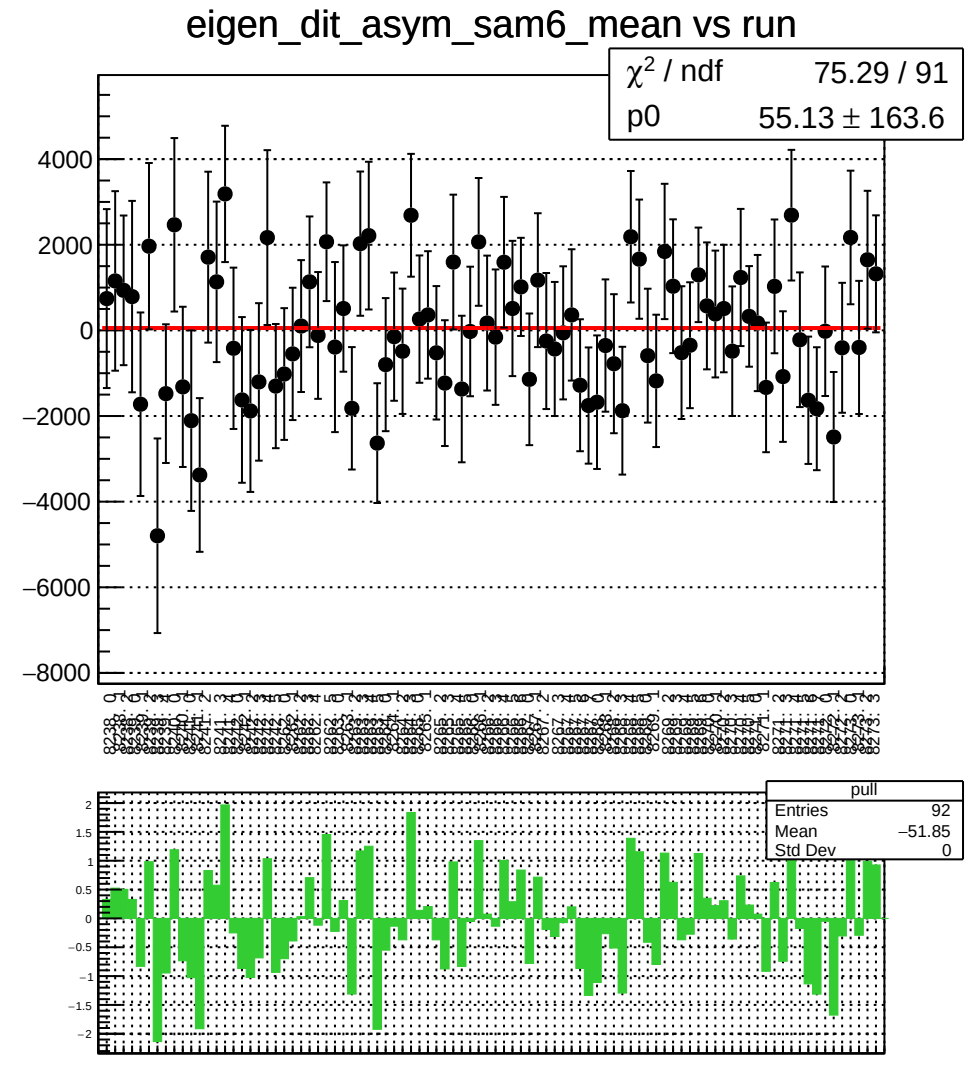

dit_asym_sam6_mean vs run
$\chi^2$ / ndf 75.29 / 91
p0 55.13 ± 163.6
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 92
Mean −51.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

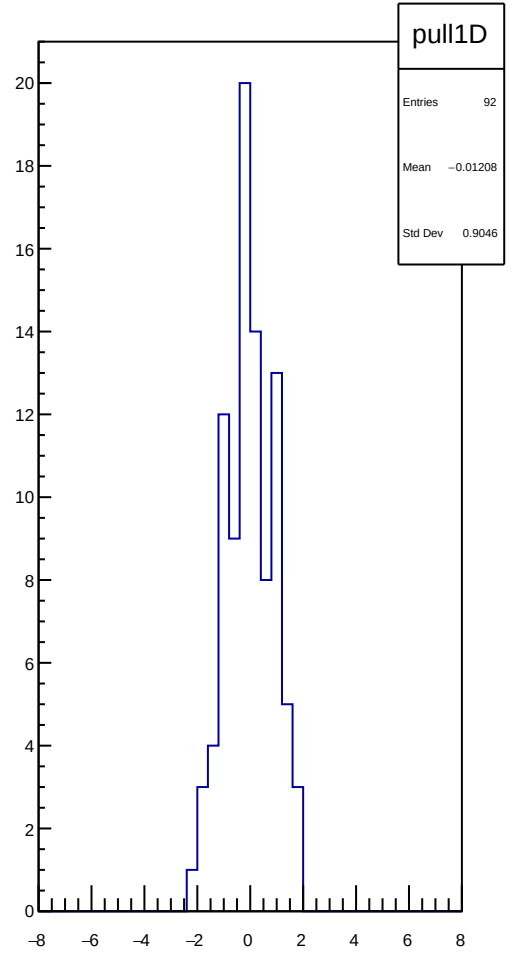

pull1D
Entries 92
Mean −0.01208
Std Dev 0.9046
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

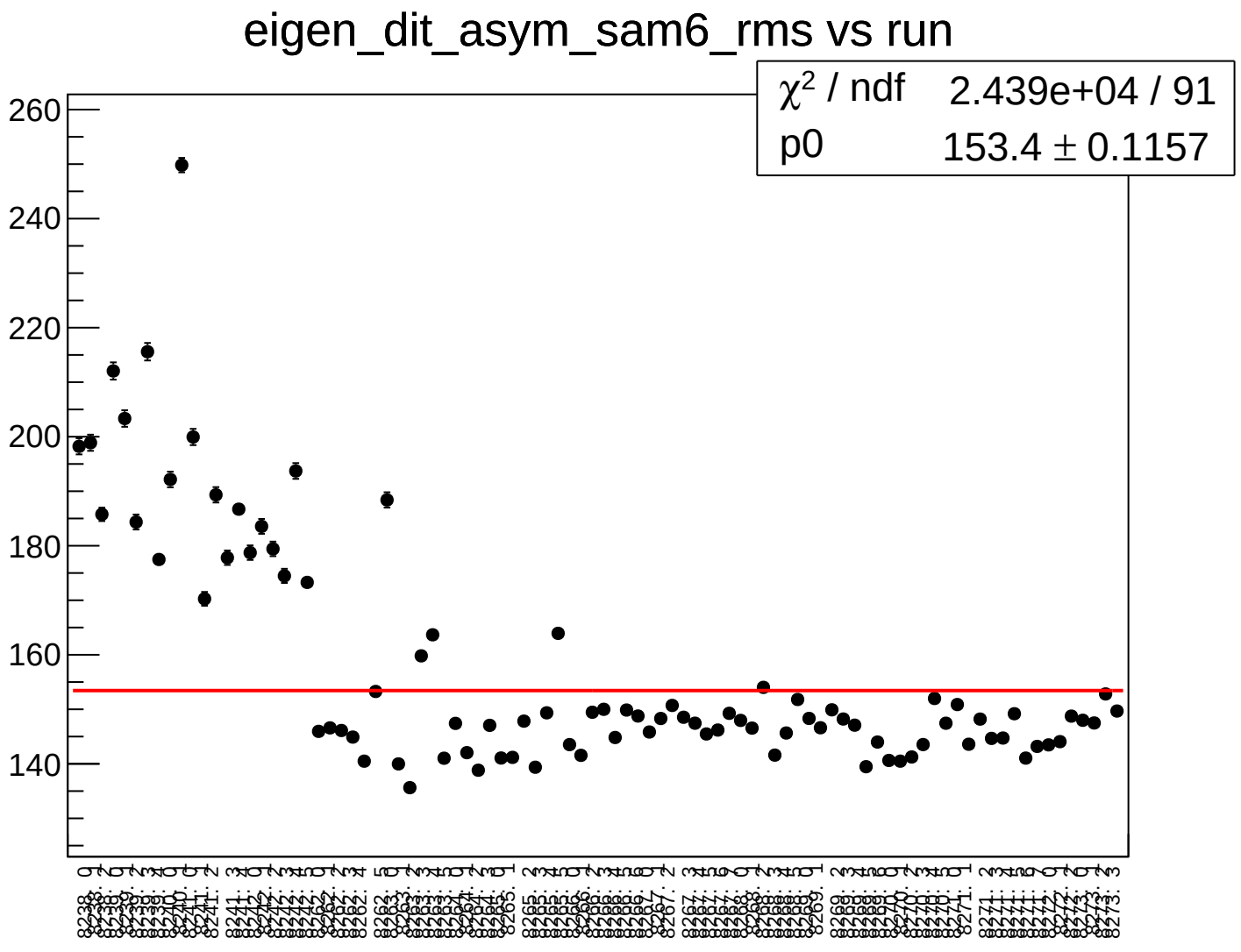

dit_asym_sam6_rms vs run
χ² / ndf 2.439e+04 / 91
p0 153.4 ± 0.1157
260
240
220
200
180
160
140

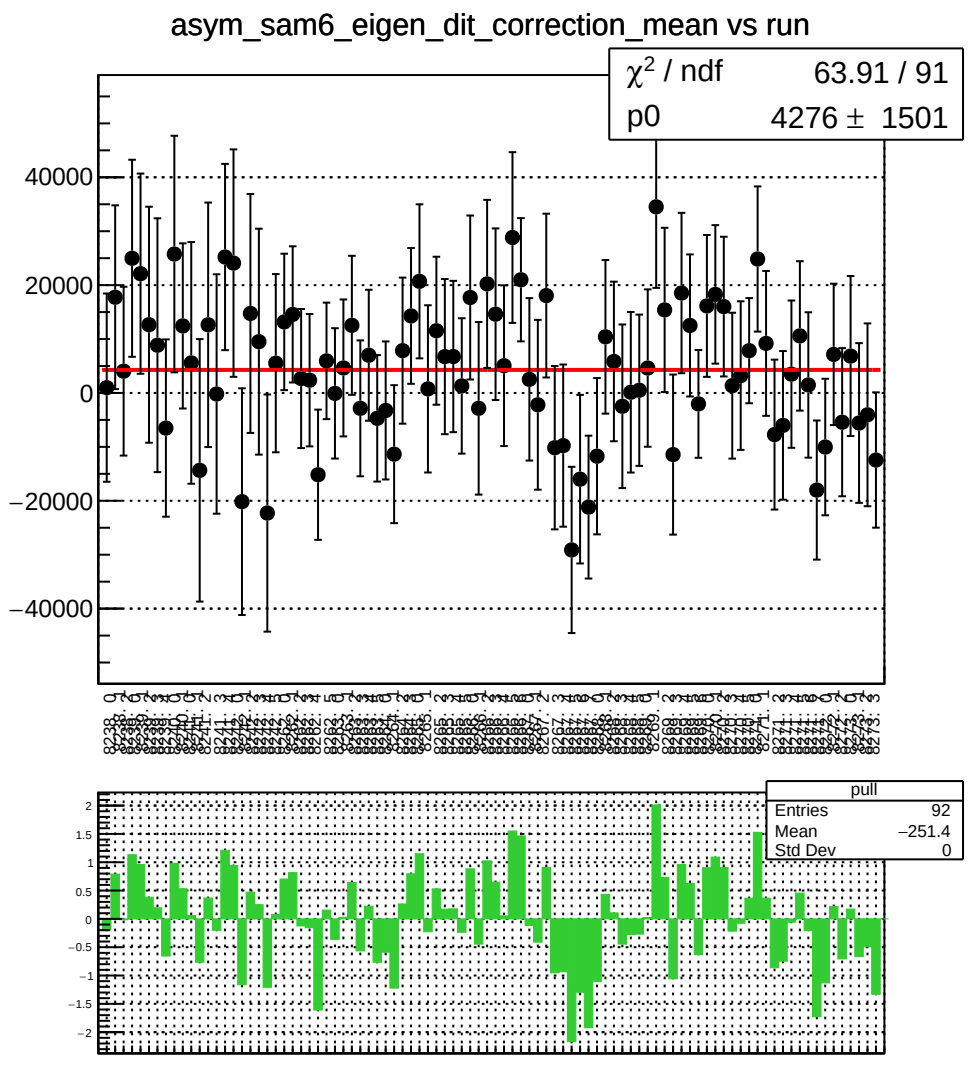

asym_sam6_dit_correction_mean vs run
χ² / ndf 63.91 / 91
p0 4276 ± 1501
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −251.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.01233
Std Dev 0.8333
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

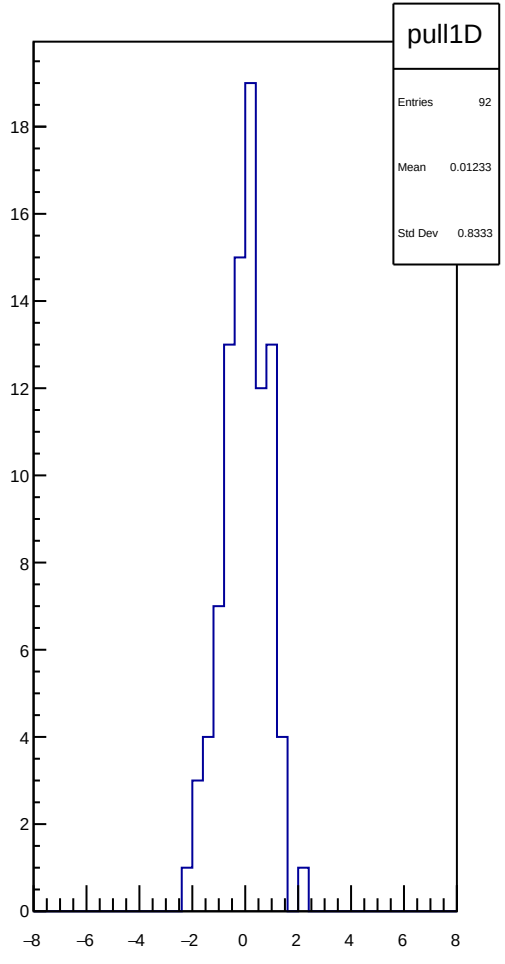

asym_sam6_dit_correction_rms vs run
χ² / ndf 5.151e+04 / 91
p0 1396 ± 1.061
2400
2200
2000
1800
1600
1400
1200

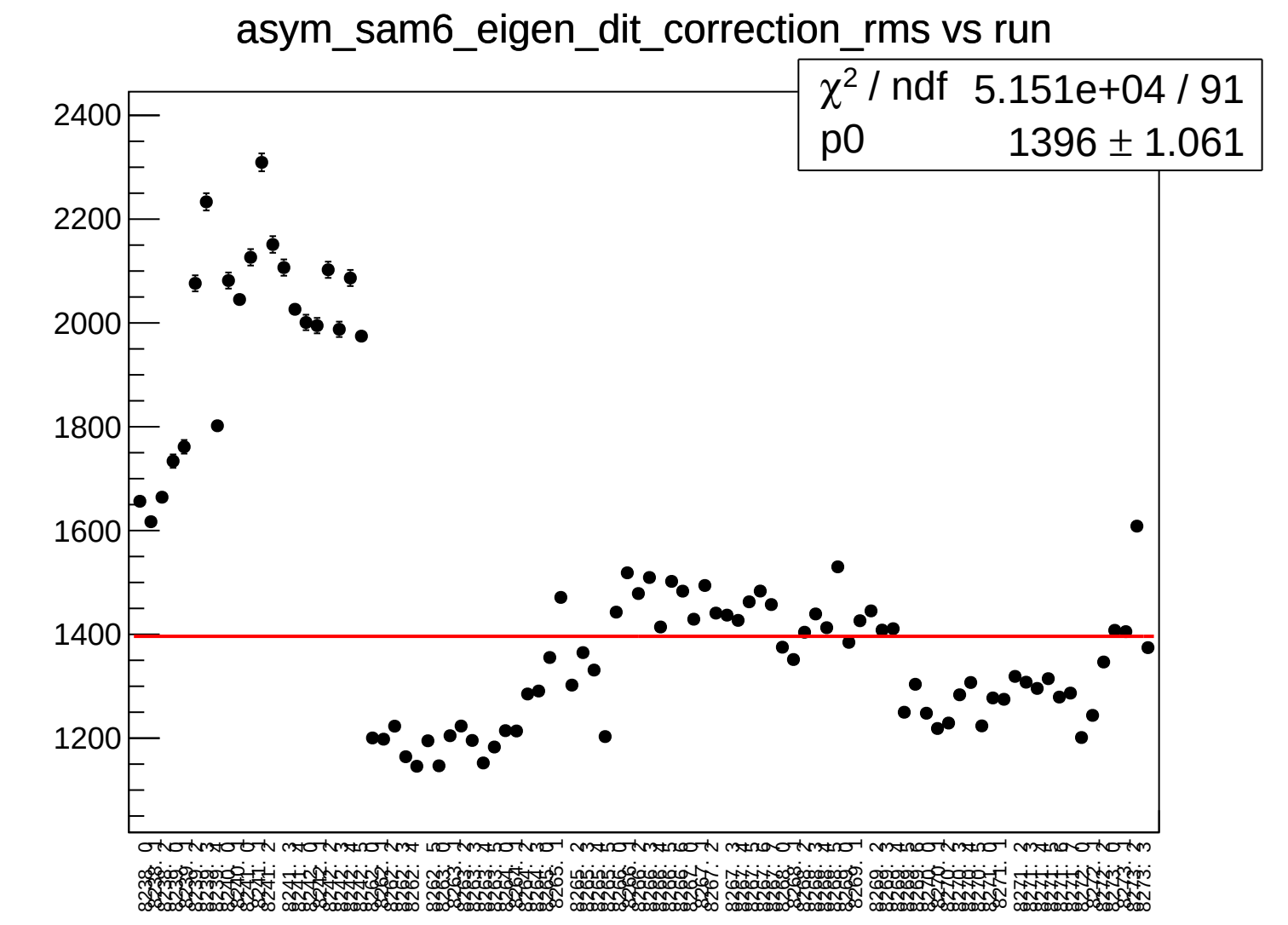

eigen_dit_asym_sam6_mean vs run
$\chi^2$ / ndf 75.29 / 91
p0 55.13 ± 163.6
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 92
Mean −51.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

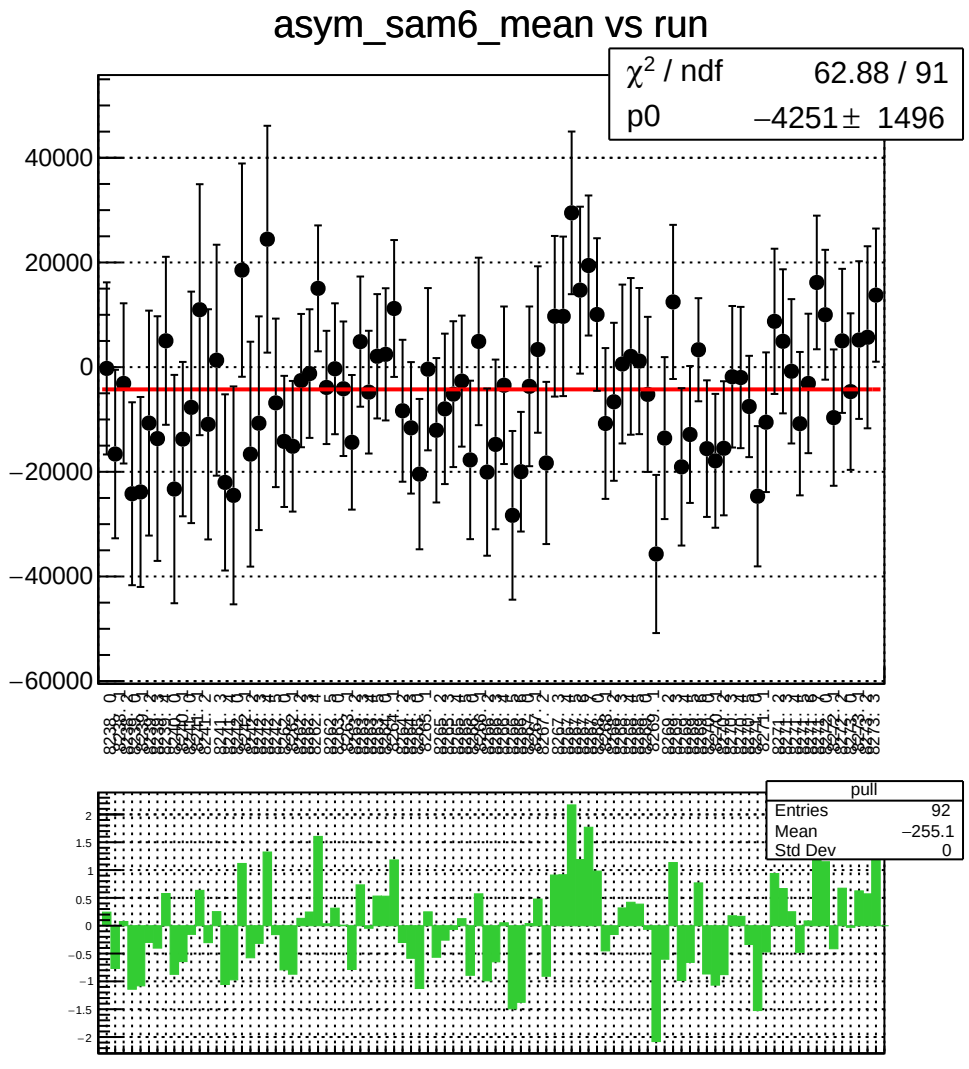

pull1D
Entries 92
Mean −0.01208
Std Dev 0.9046
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

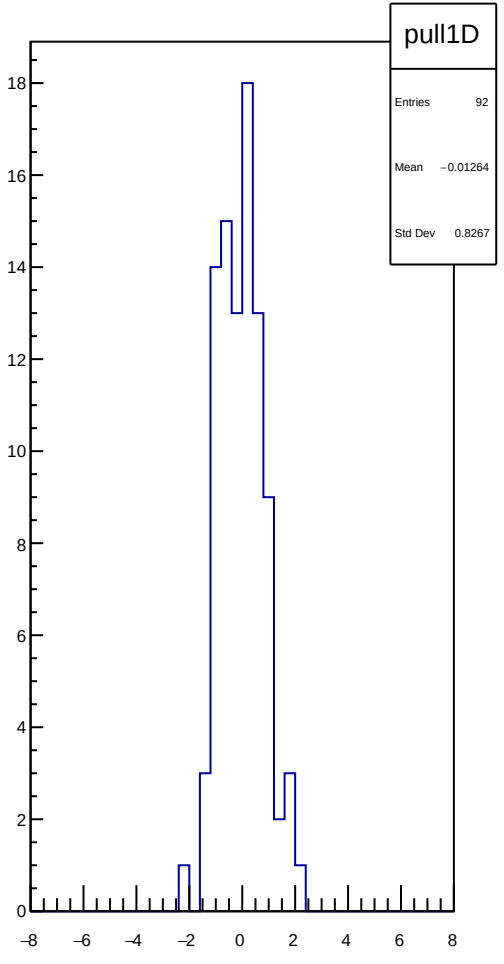

eigen_dit_asym_sam6_rms vs run
χ² / ndf 2.439e+04 / 91
p0 153.4 ± 0.1157
260
240
220
200
180
160
140

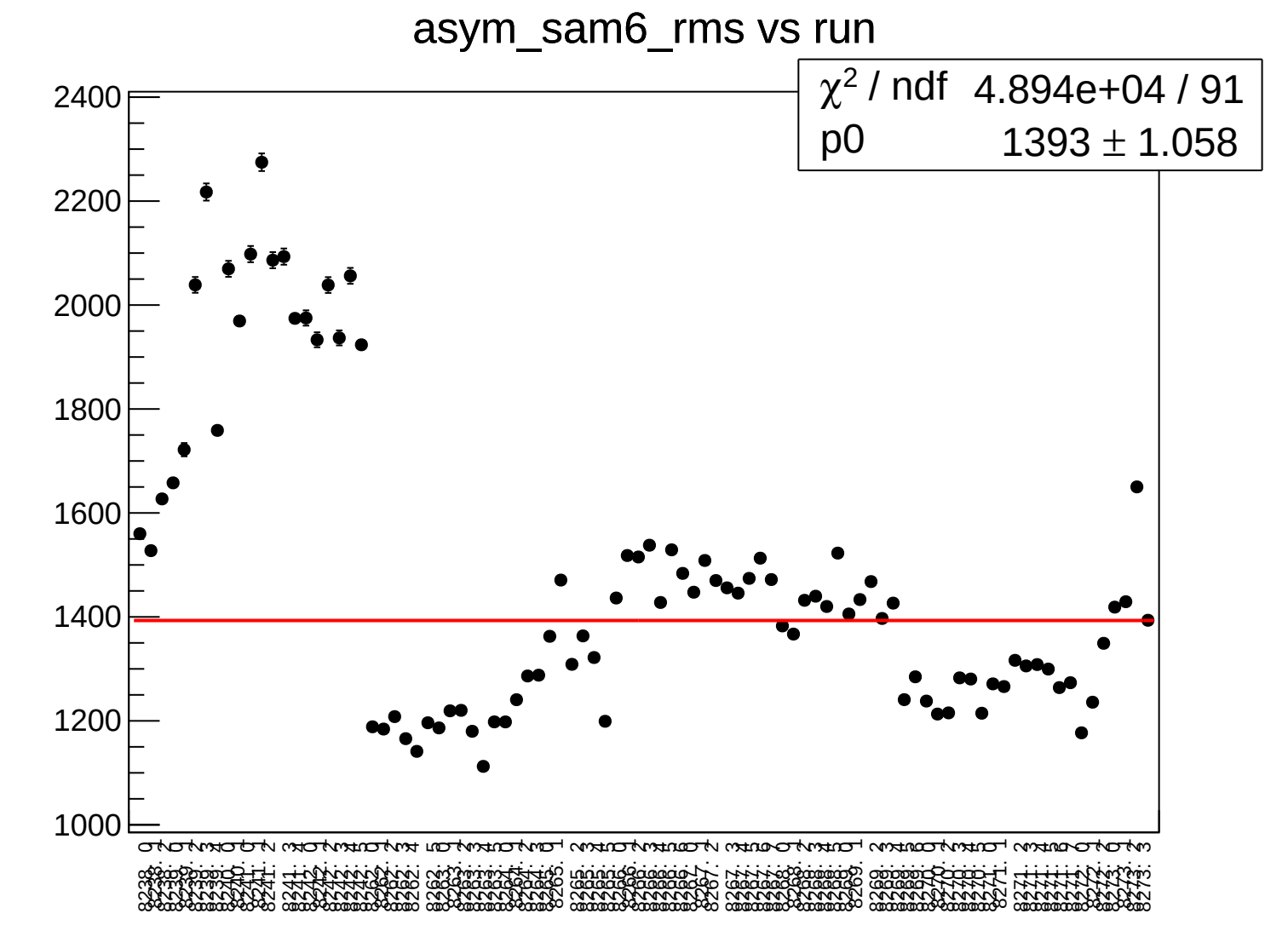

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 63.91 / 91
p0 4276 ± 1501
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −251.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

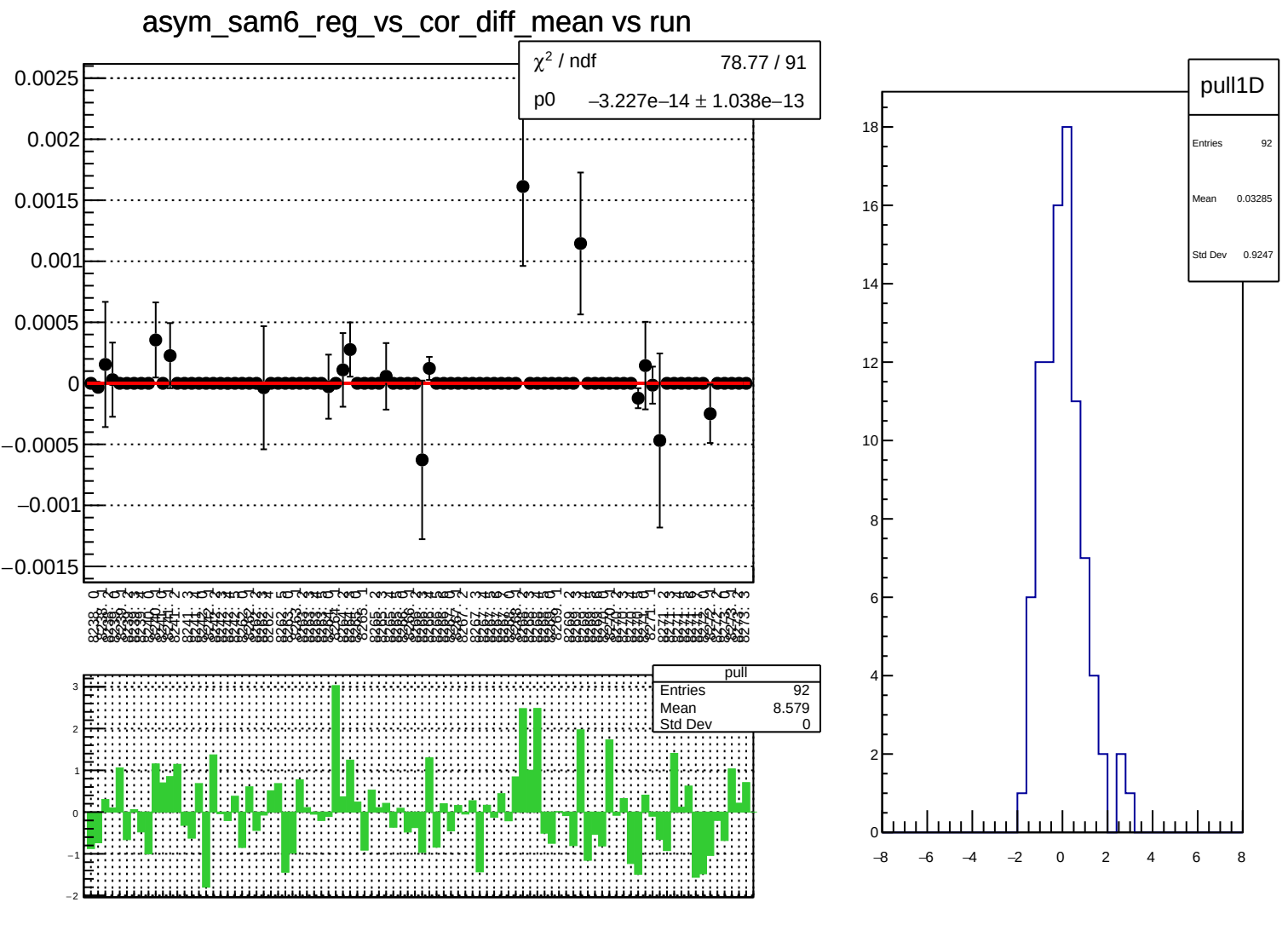

pull1D
Entries 92
Mean 0.01233
Std Dev 0.8333
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

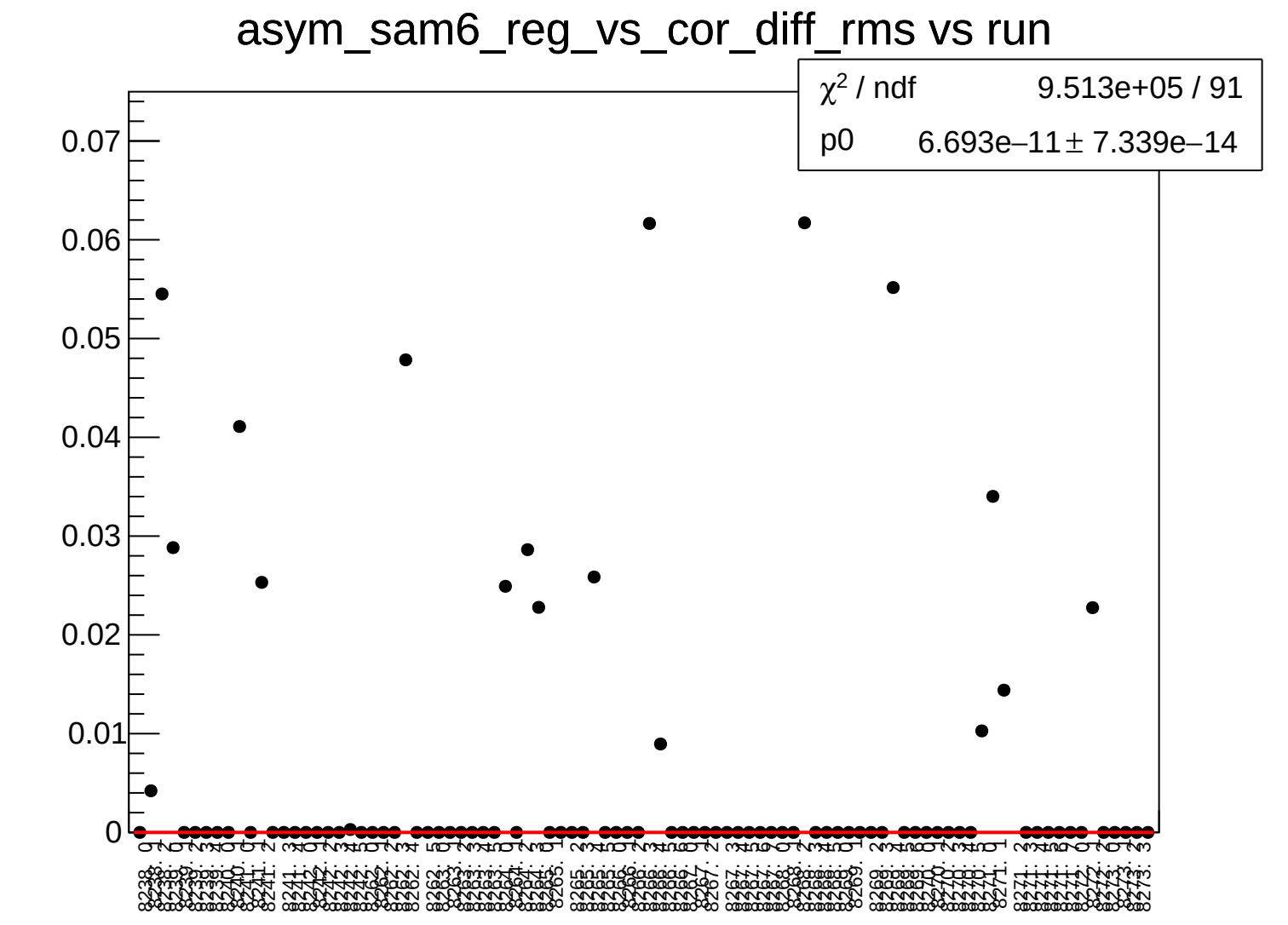

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 5.151e+04 / 91
p0 1396 ± 1.061
2400
2200
2000
1800
1600
1400
1200

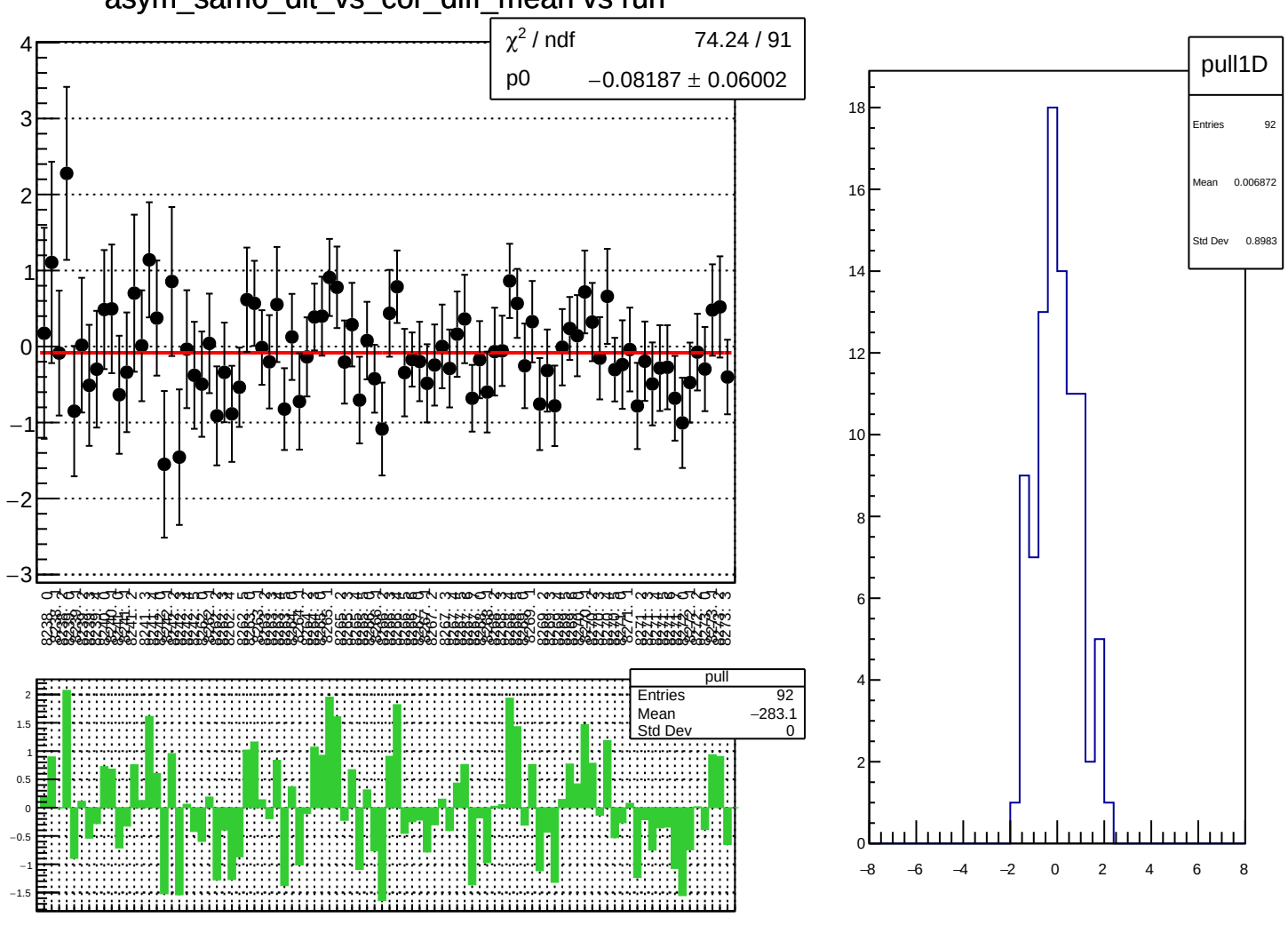

asym_sam6_mean vs run
χ² / ndf 62.88 / 91
p0 −4251 ± 1496
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −255.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

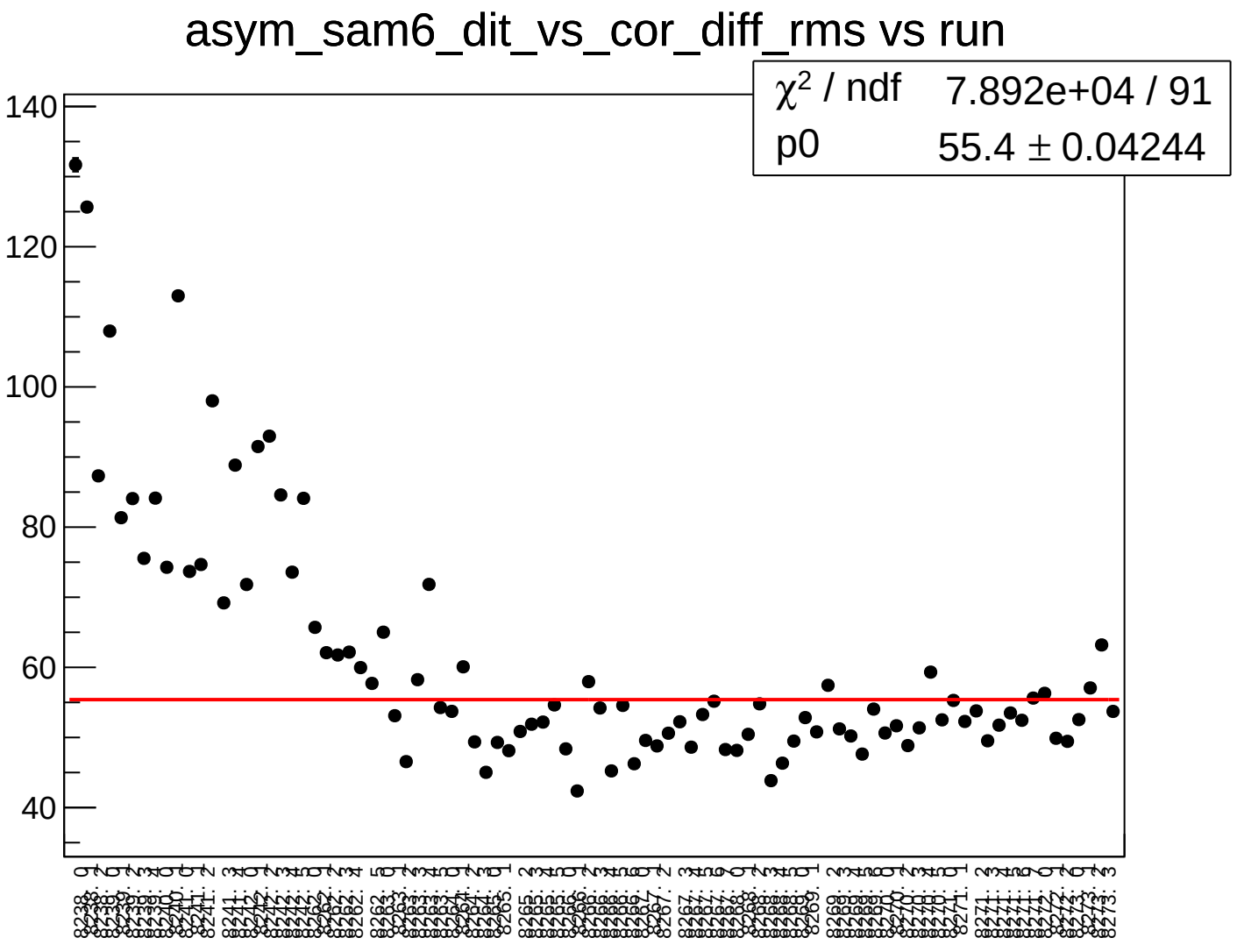

pull1D
Entries 92
Mean −0.01264
Std Dev 0.8267
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

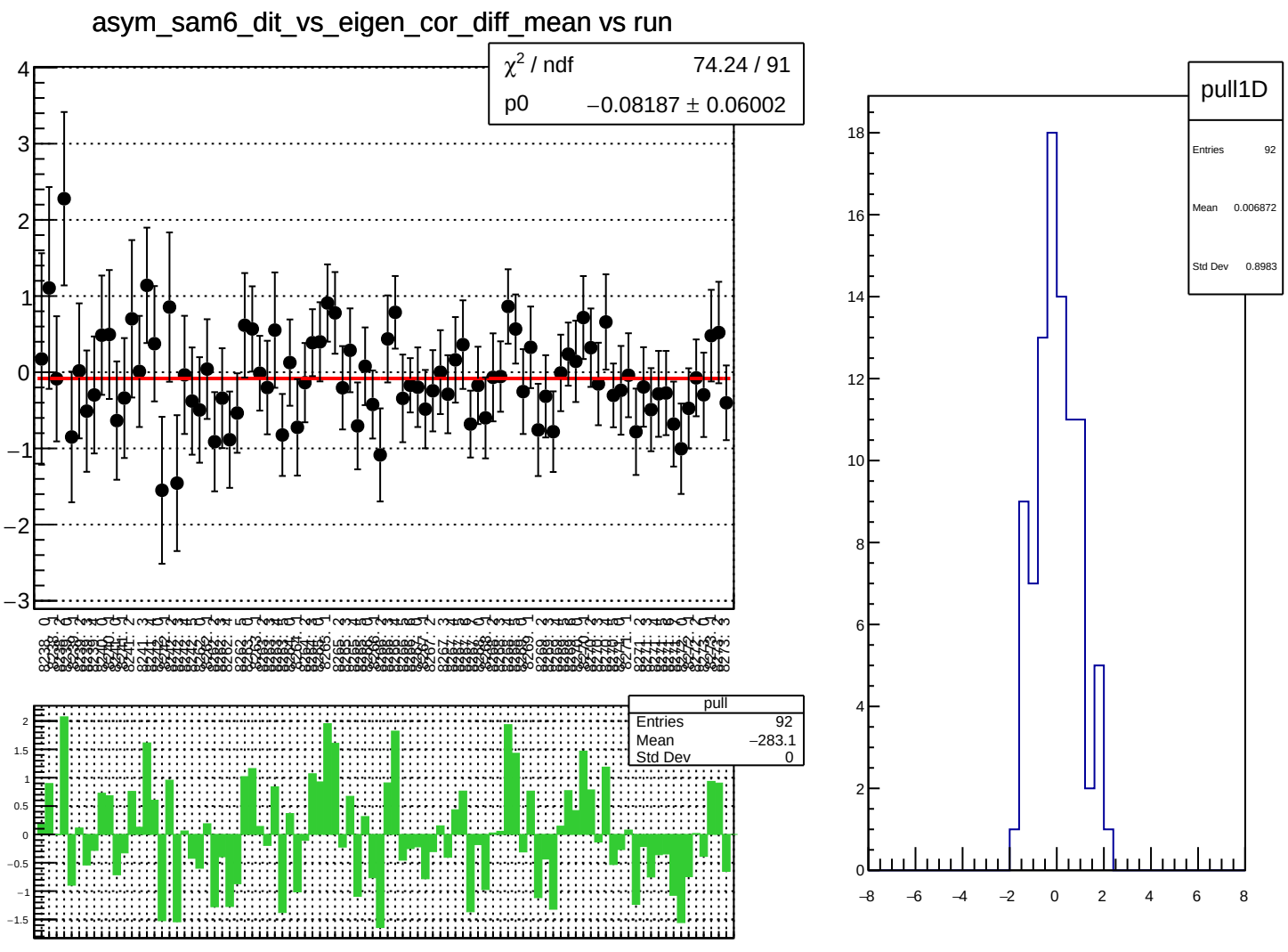

asym_sam6_rms vs run
χ² / ndf 4.894e+04 / 91
p0 1393 ± 1.058
2400
2200
2000
1800
1600
1400
1200
1000

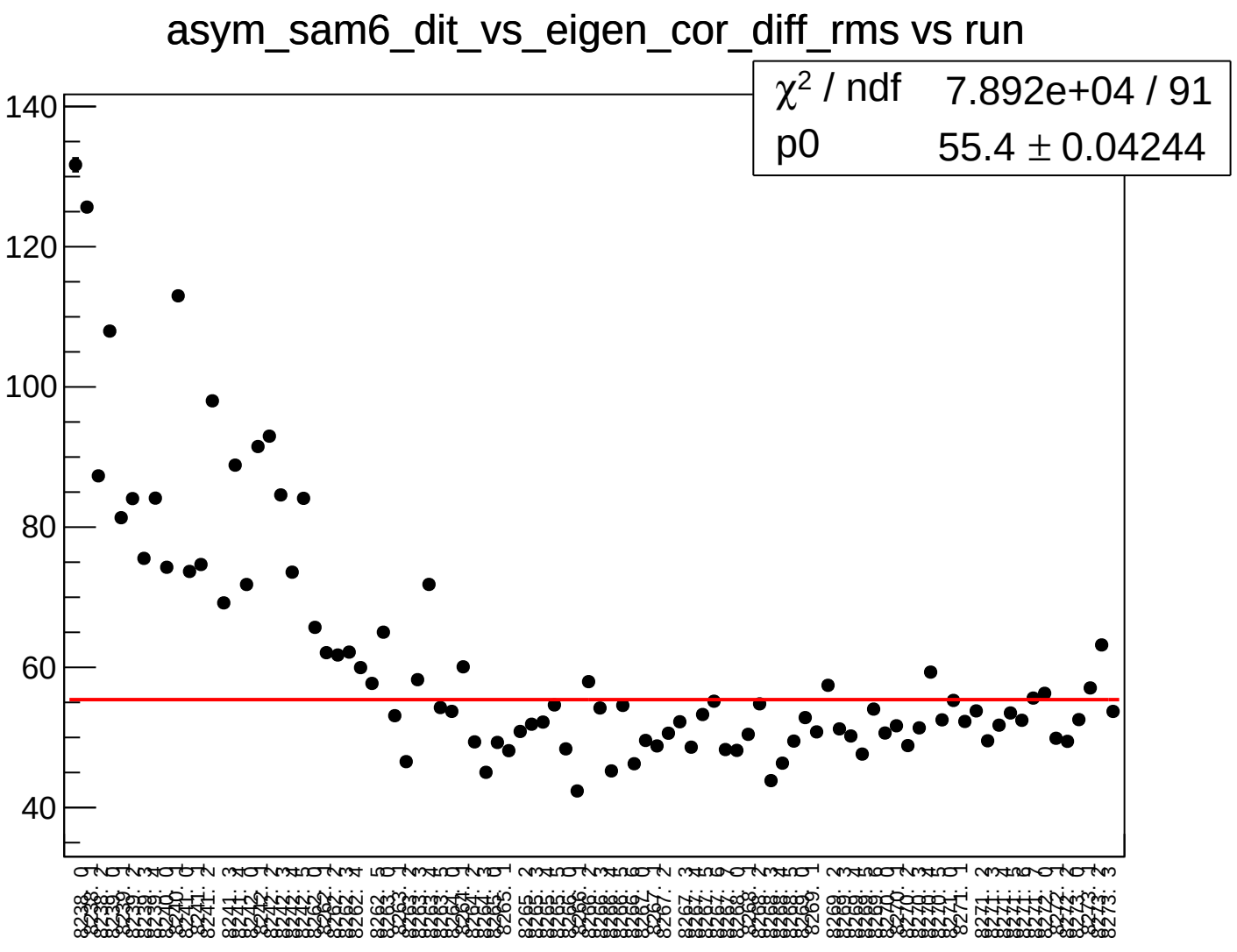

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 78.77 / 91
p0 −3.227e−14 ± 1.038e−13
pull
Entries 92
Mean 8.579
Std Dev 0
pull1D
Entries 92
Mean 0.03285
Std Dev 0.9247

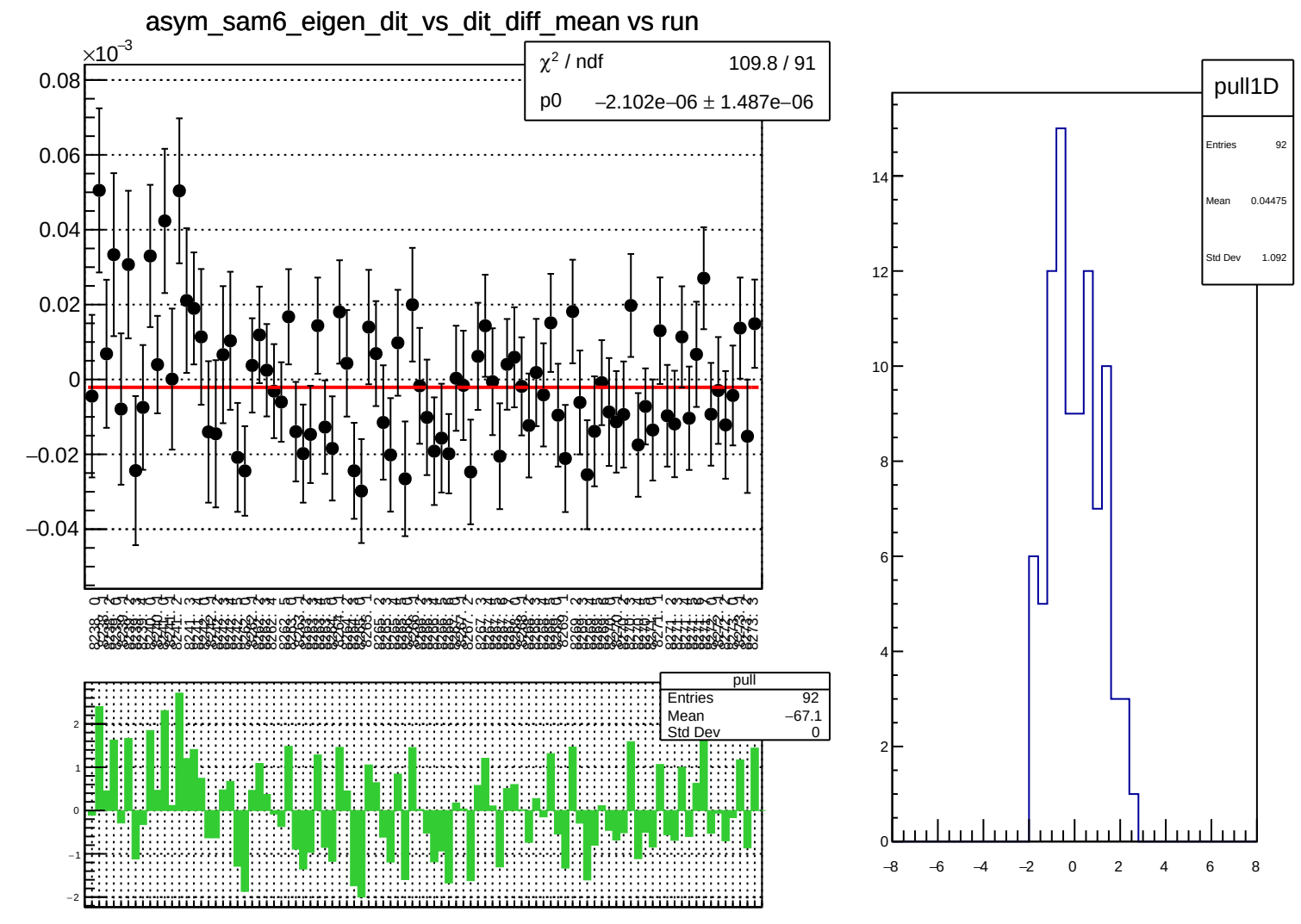

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 9.513e+05 / 91
p0 6.693e−11 ± 7.339e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

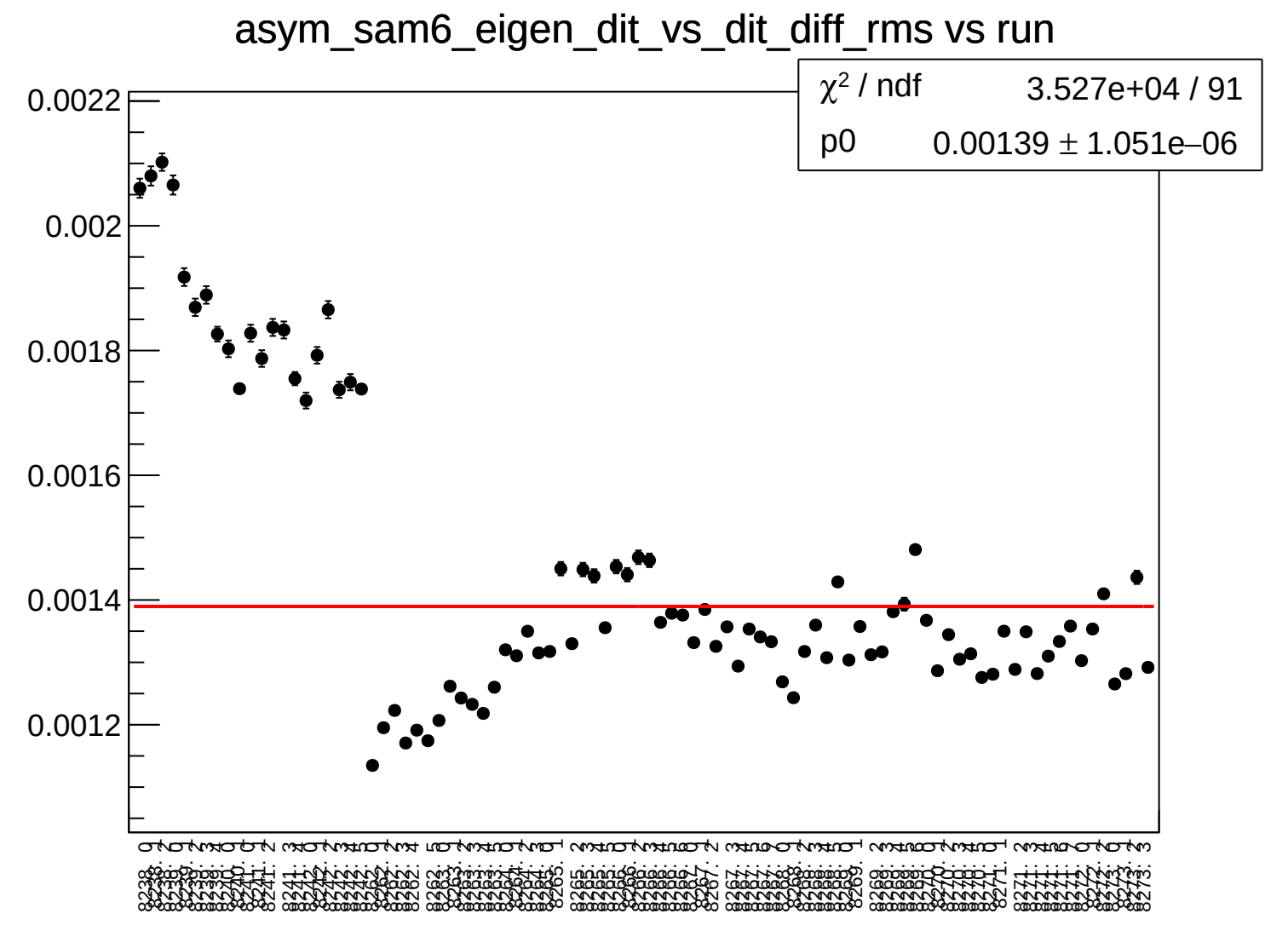

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 74.24 / 91
p0 −0.08187 ± 0.06002
pull
Entries 92
Mean −283.1
Std Dev 0
pull1D
Entries 92
Mean 0.006872
Std Dev 0.8983

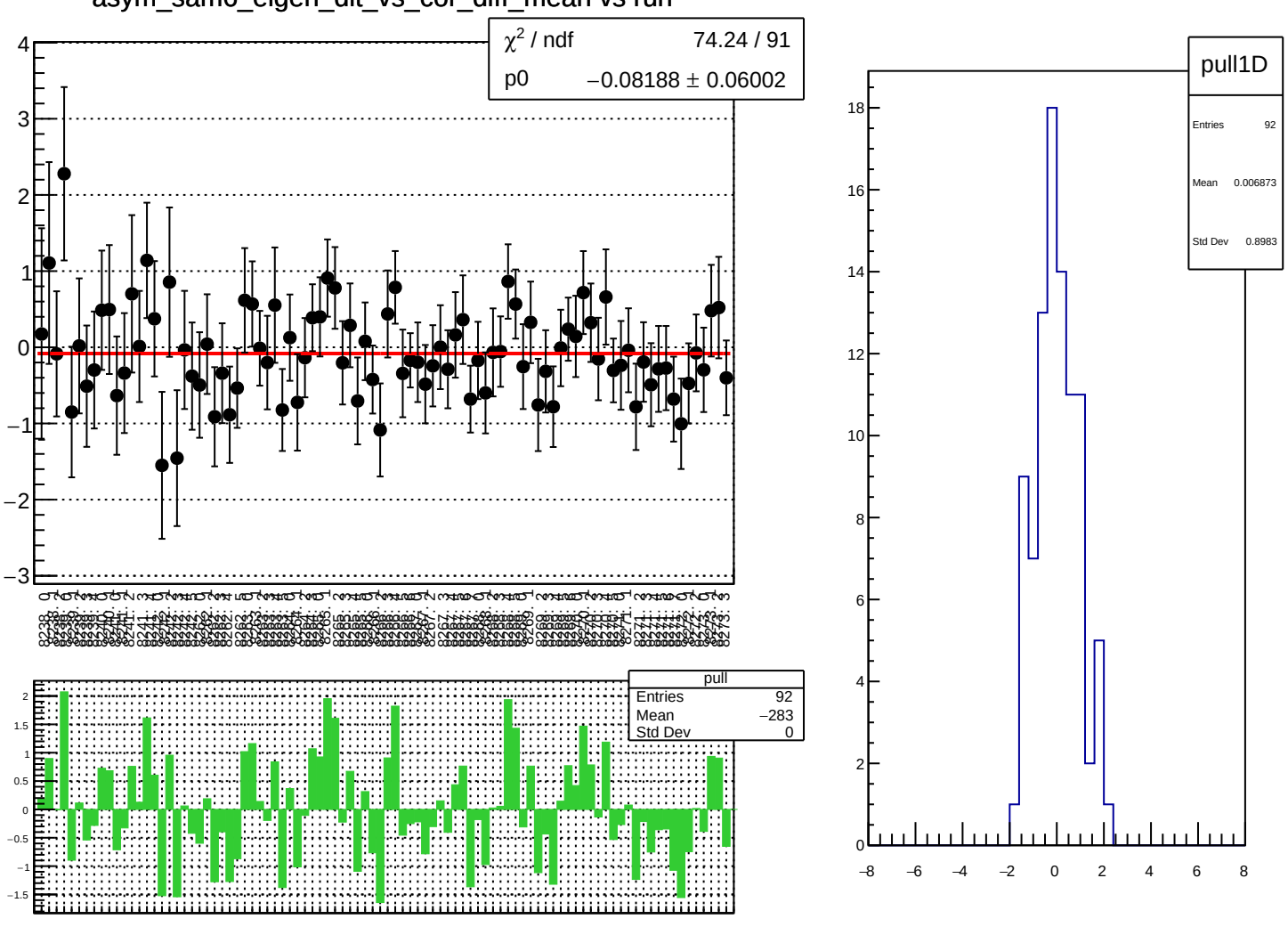

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 7.892e+04 / 91
p0 55.4 ± 0.04244
140
120
100
80
60
40

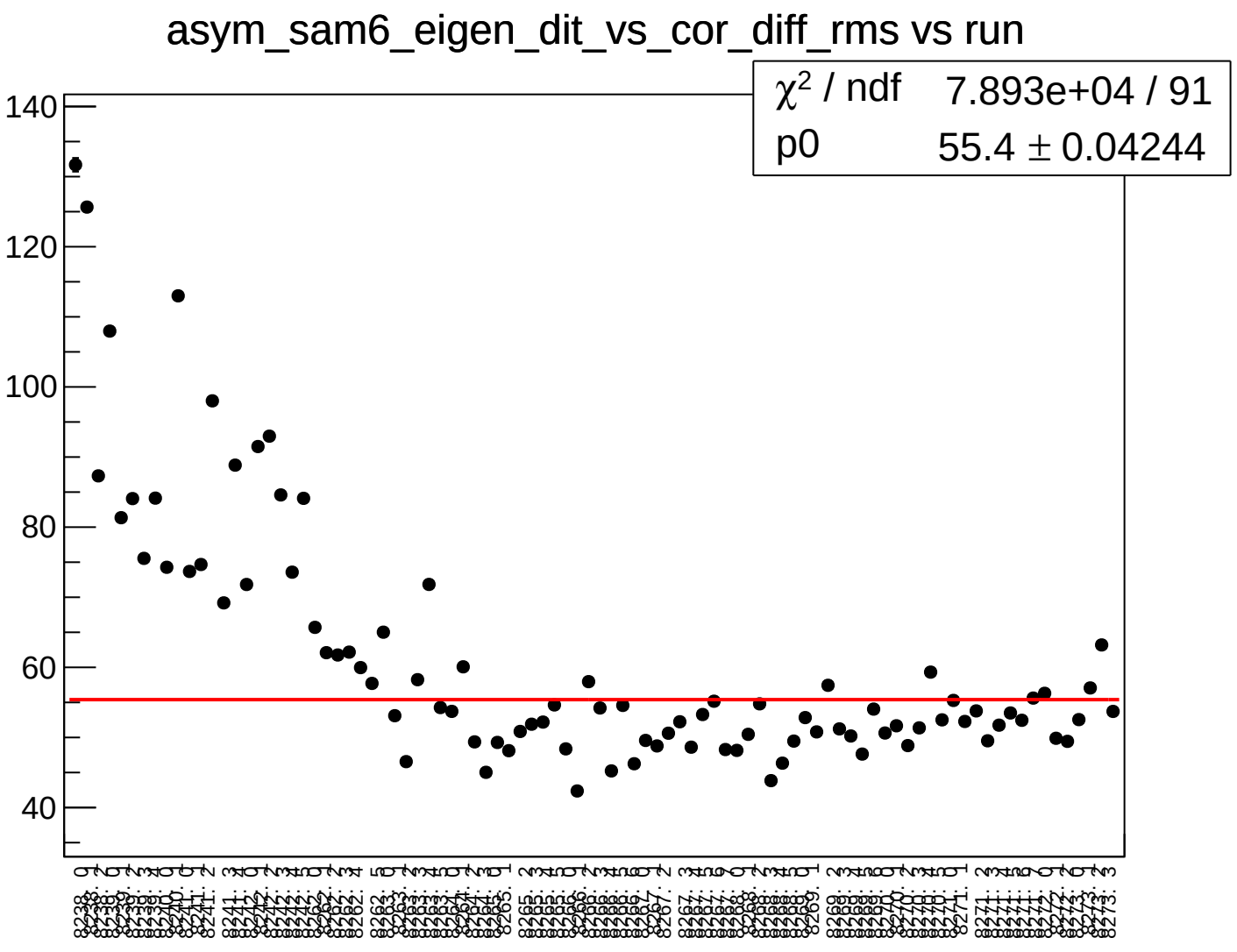

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.24 / 91
p0 −0.08187 ± 0.06002
pull
Entries 92
Mean −283.1
Std Dev 0
pull1D
Entries 92
Mean 0.006872
Std Dev 0.8983

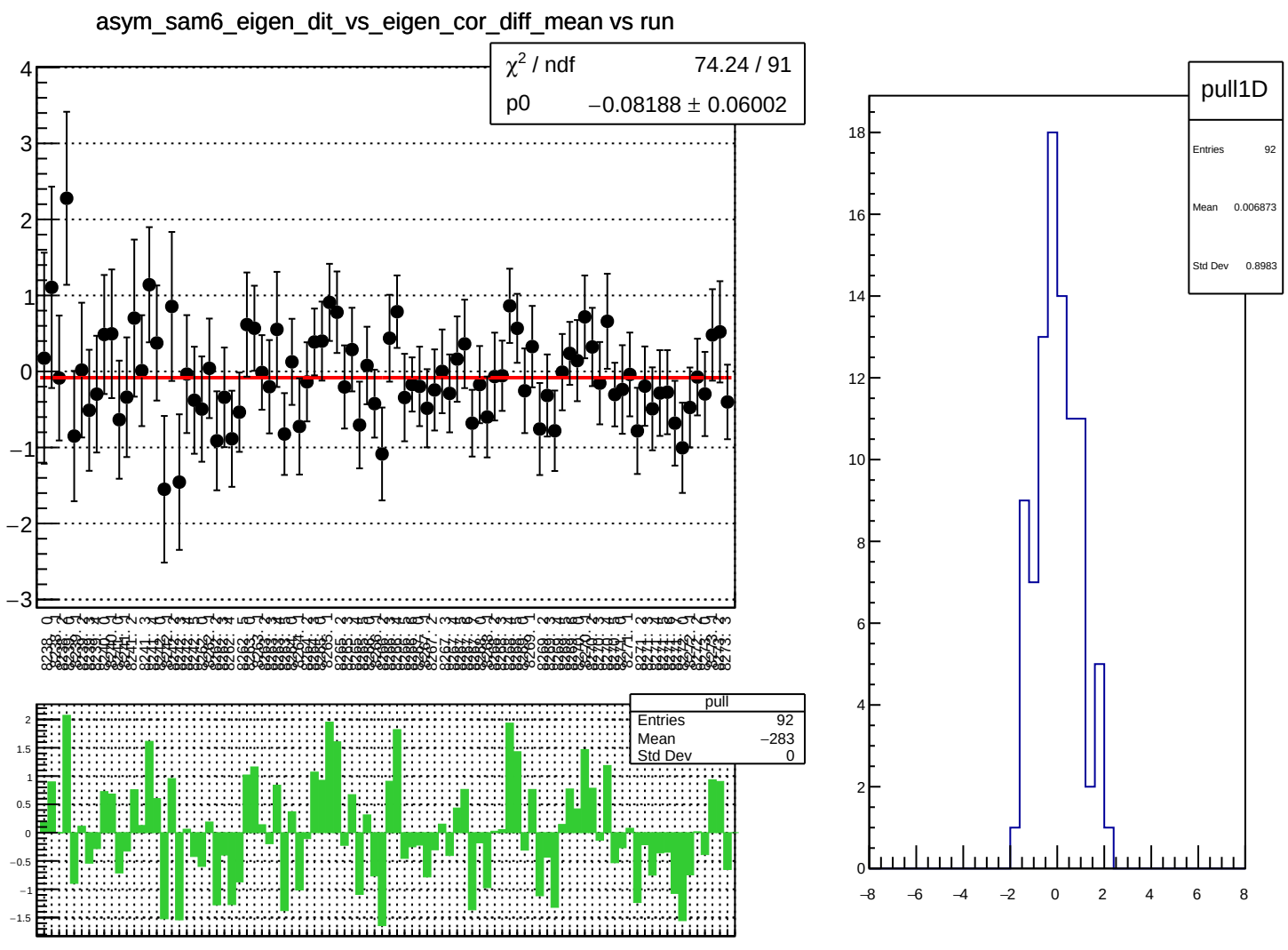

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.892e+04 / 91
p0 55.4 ± 0.04244
140
120
100
80
60
40

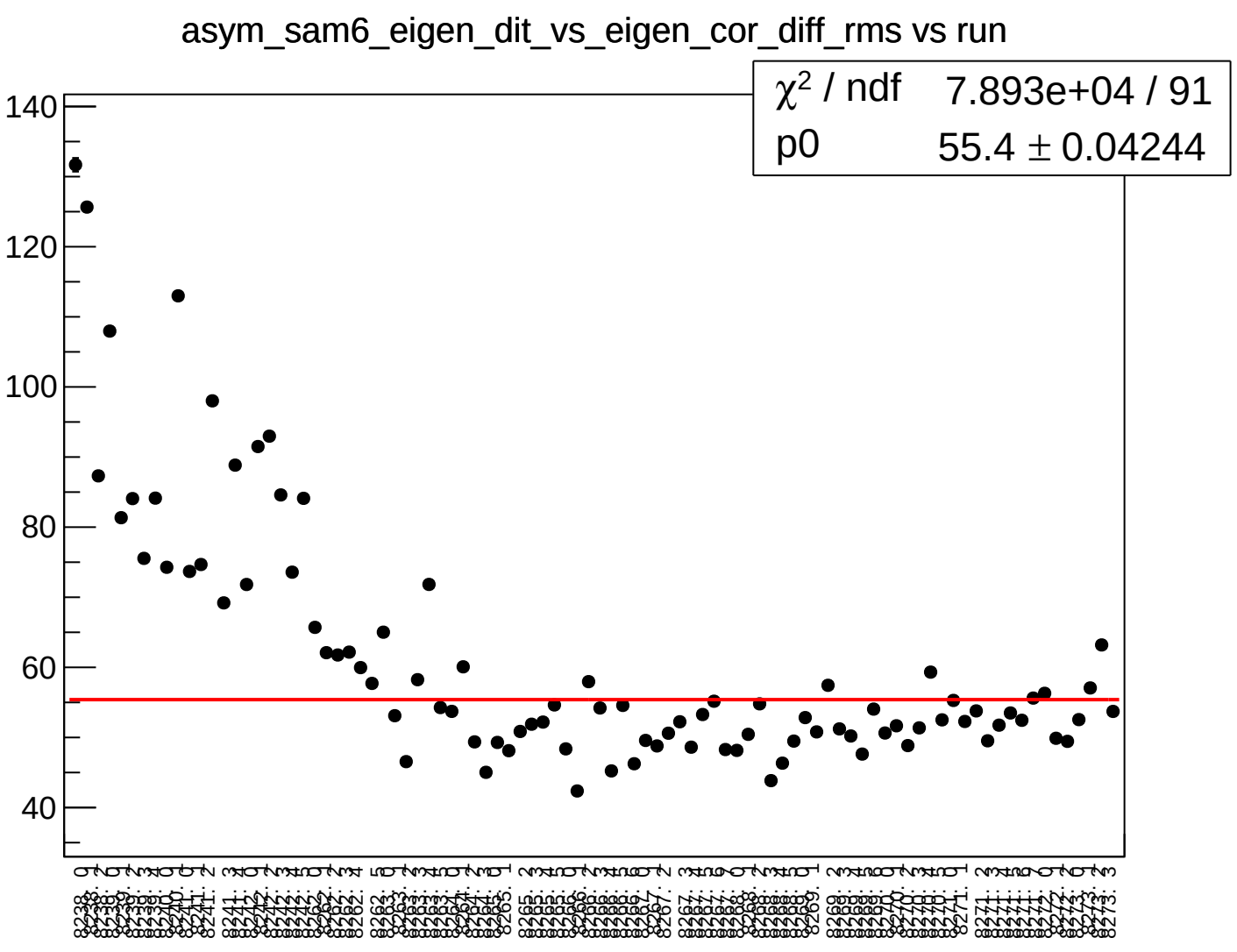

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.8 / 91
p0 −2.102e−06 ± 1.487e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 92
Mean −67.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.04475
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

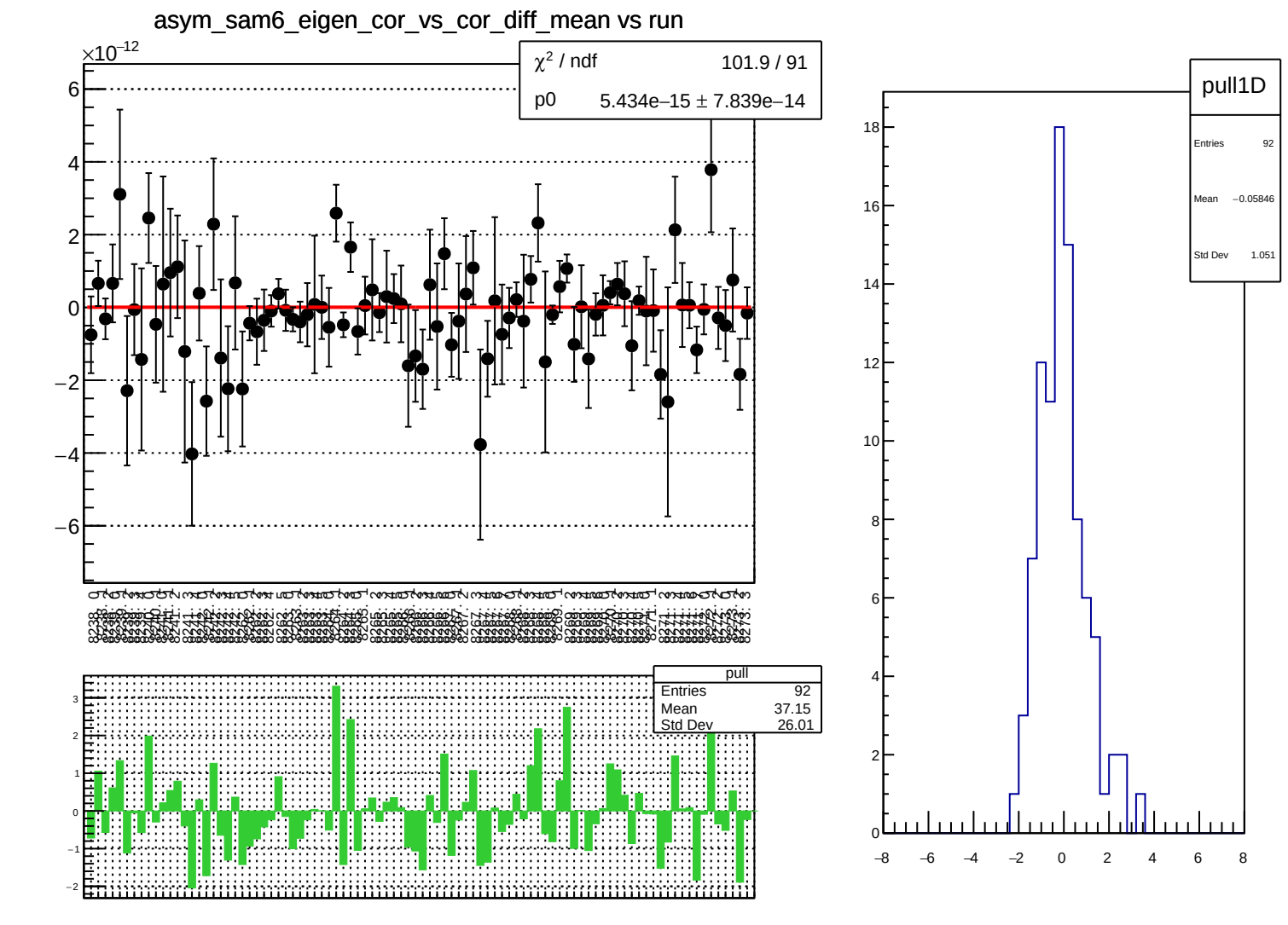

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.527e+04 / 91
p0 0.00139 ± 1.051e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

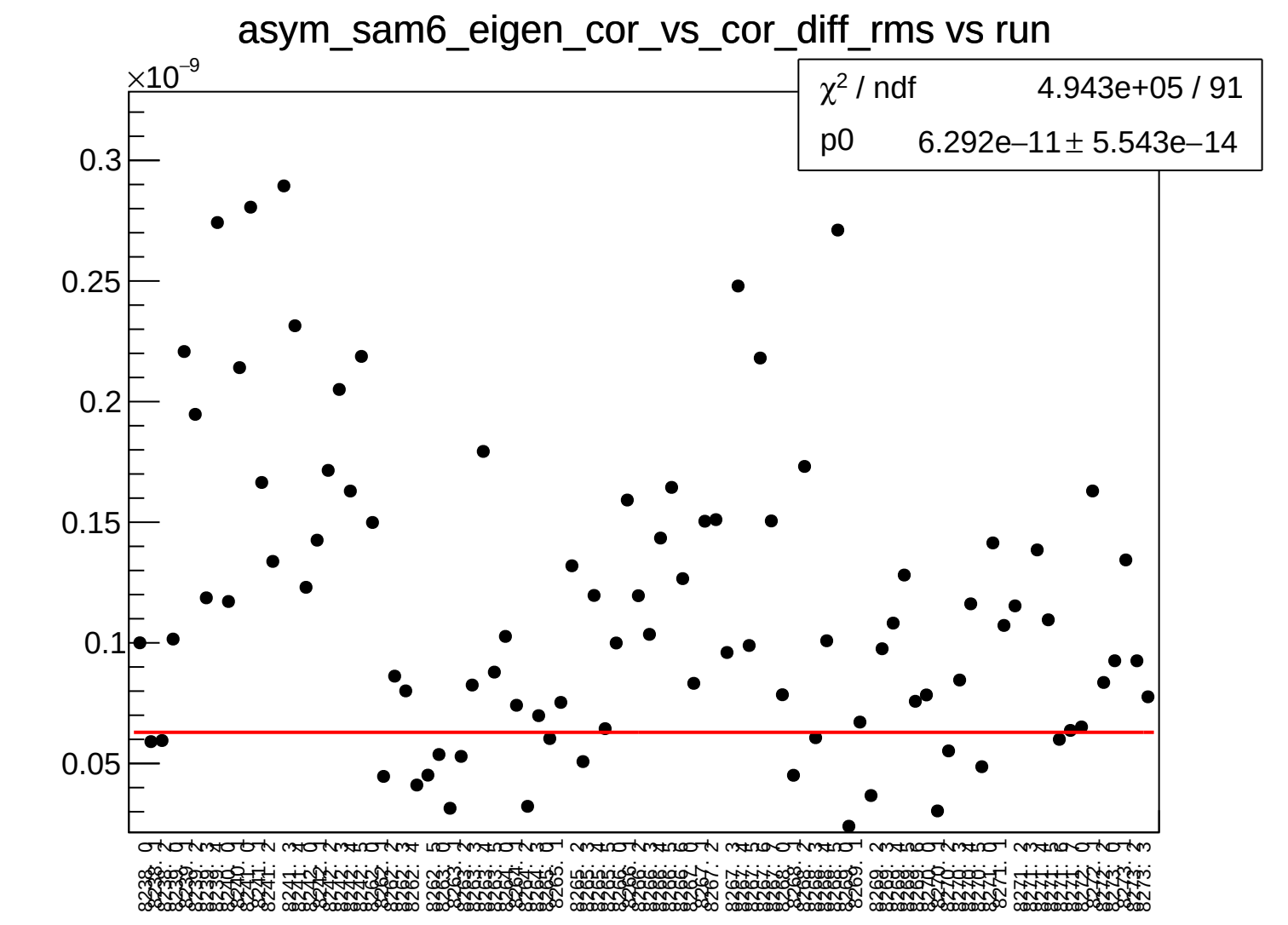

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.24 / 91
p0 −0.08188 ± 0.06002
pull
Entries 92
Mean −283
Std Dev 0
pull1D
Entries 92
Mean 0.006873
Std Dev 0.8983

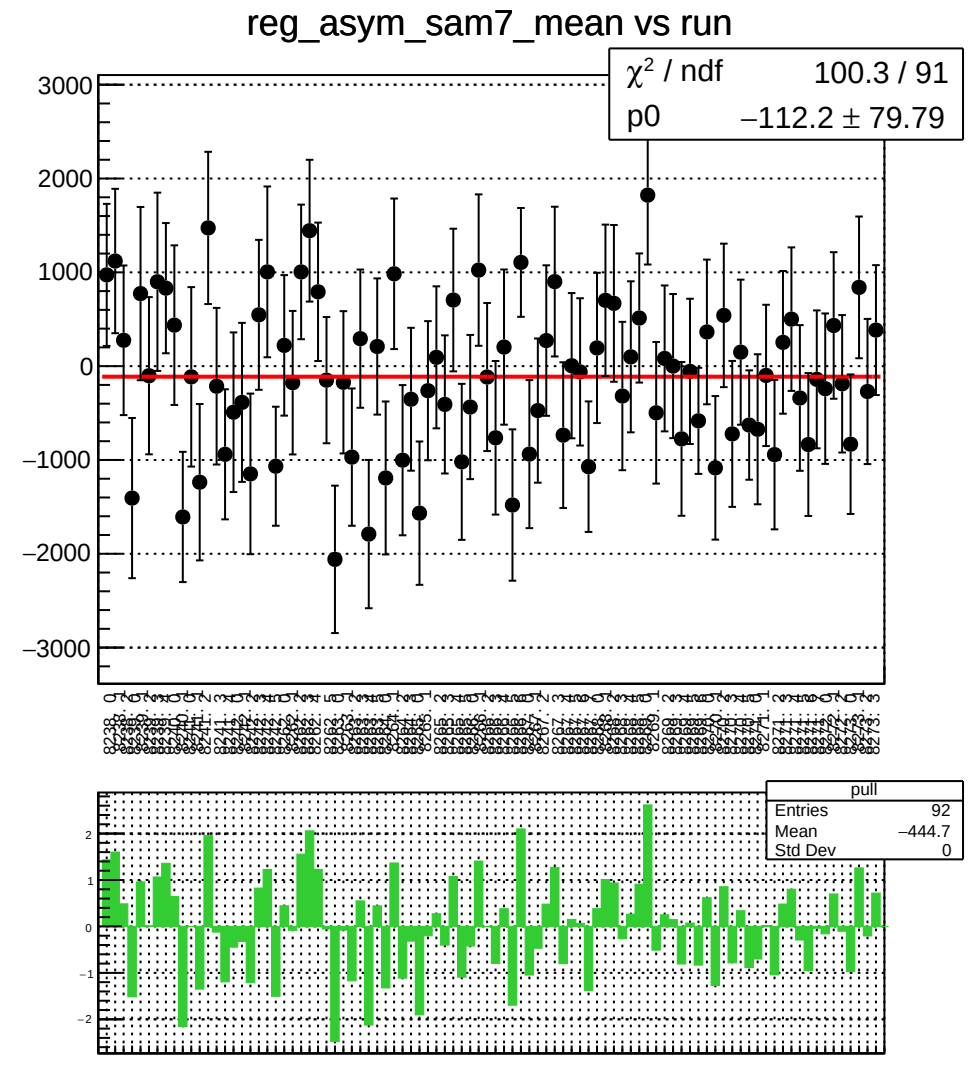

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.893e+04 / 91
p0 55.4 ± 0.04244
140
120
100
80
60
40

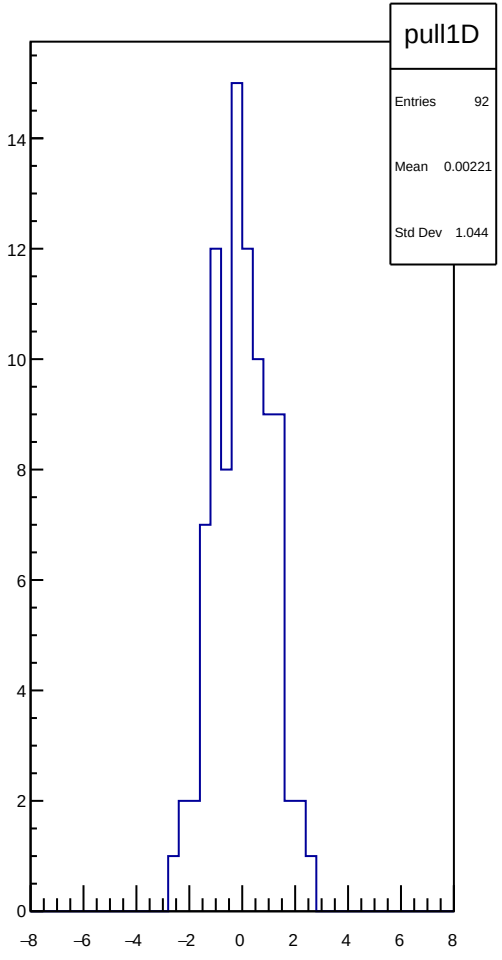

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.24 / 91
p0 −0.08188 ± 0.06002
pull
Entries 92
Mean −283
Std Dev 0
pull1D
Entries 92
Mean 0.006873
Std Dev 0.8983

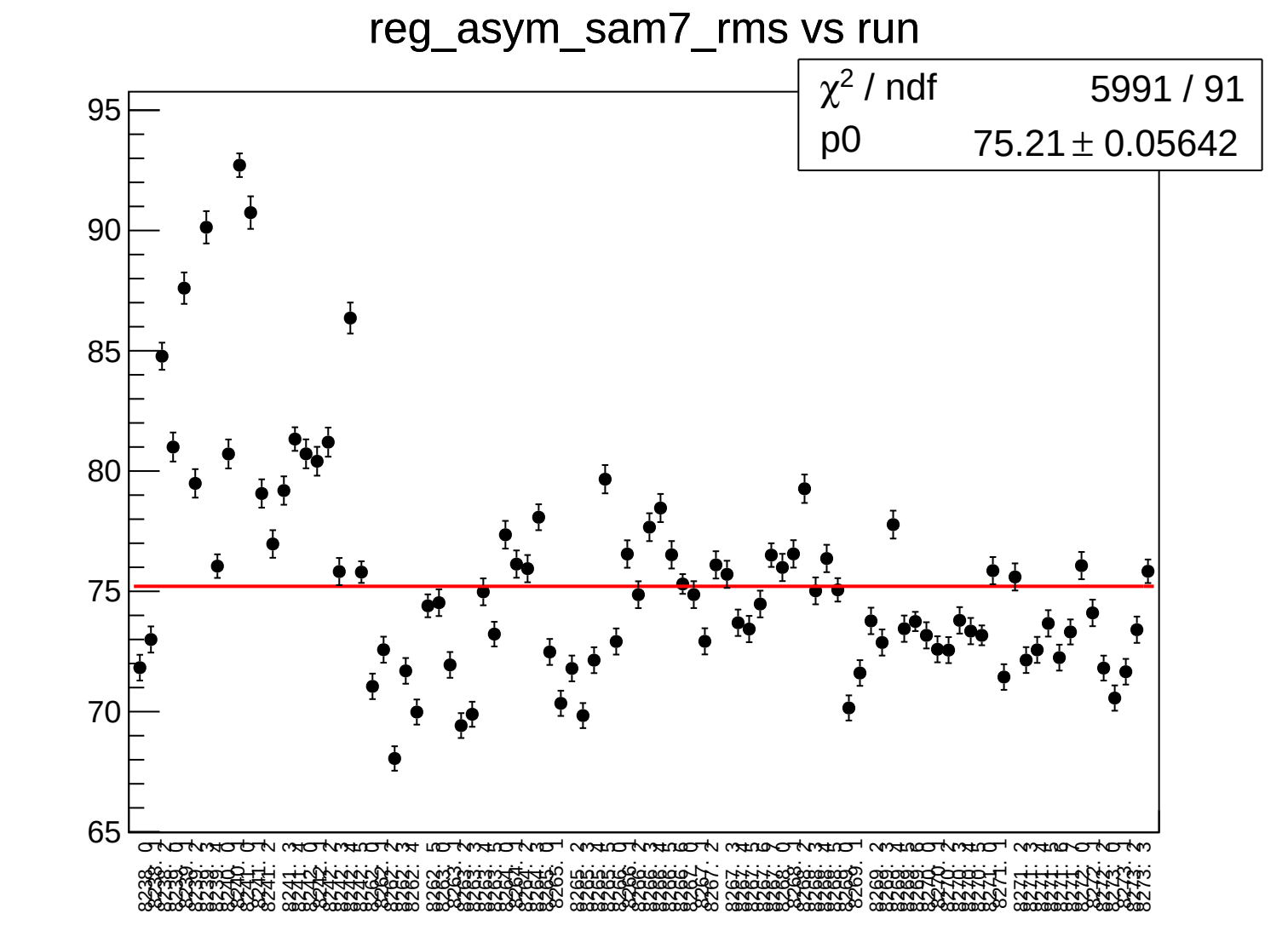

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.893e+04 / 91
p0 55.4 ± 0.04244
140
120
100
80
60
40

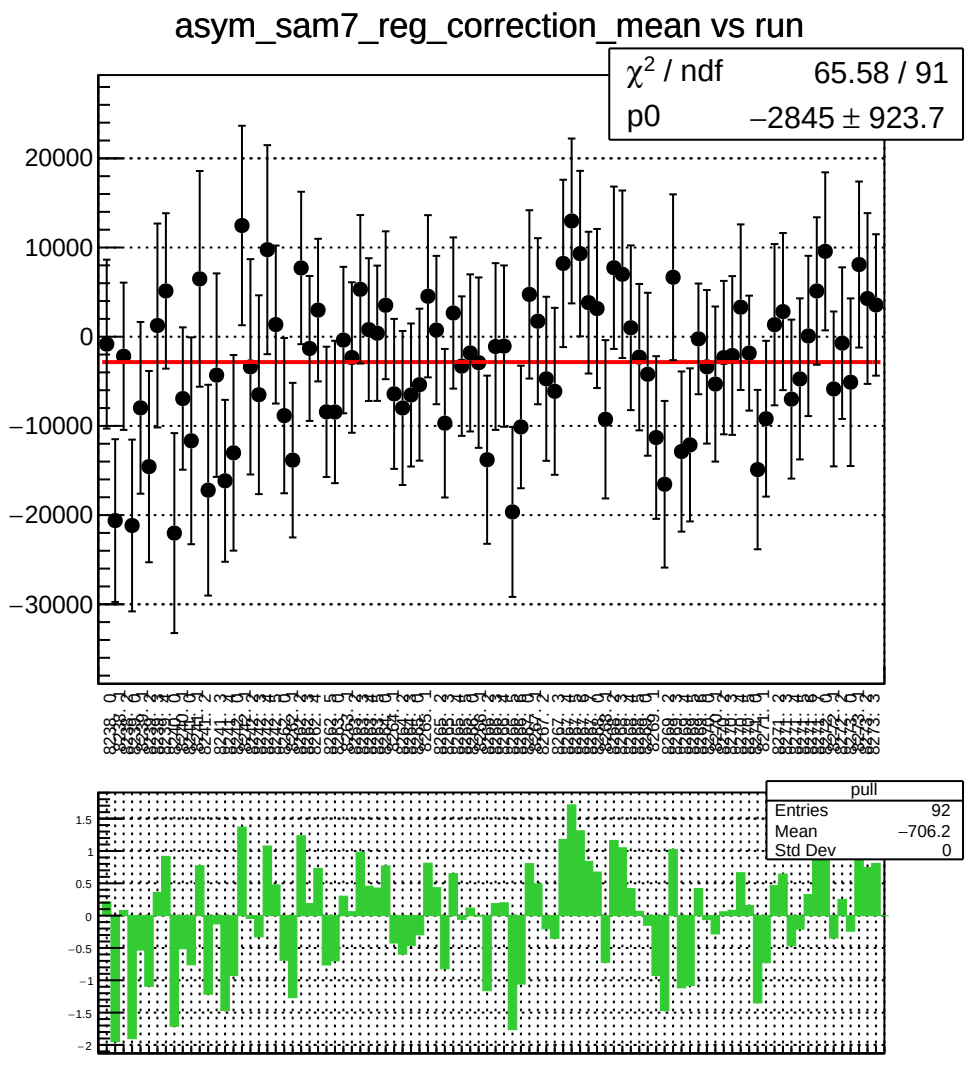

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.9 / 91
p0 5.434e−15 ± 7.839e−14
pull
Entries 92
Mean 37.15
Std Dev 26.01
pull1D
Entries 92
Mean −0.05846
Std Dev 1.051

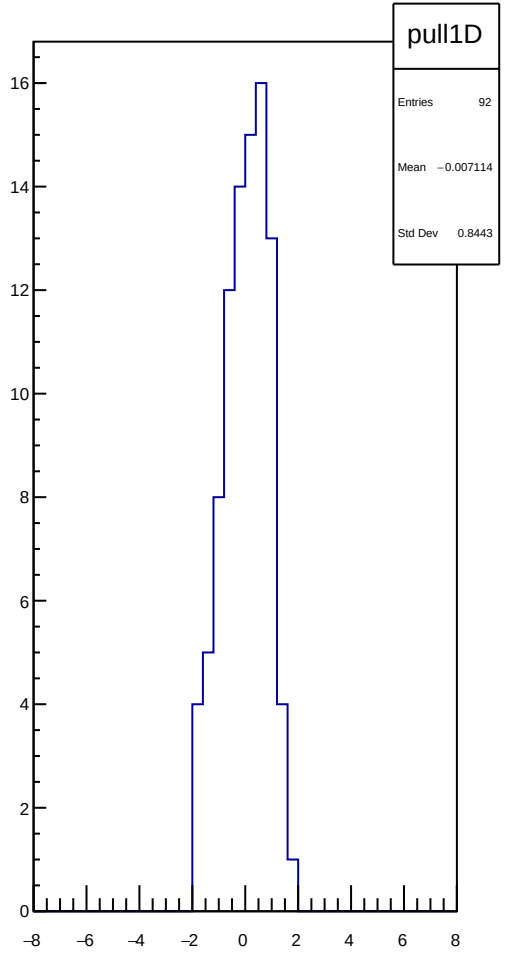

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.943e+05 / 91
p0 6.292e−11 ± 5.543e−14
0.3
0.25
0.2
0.15
0.1
0.05

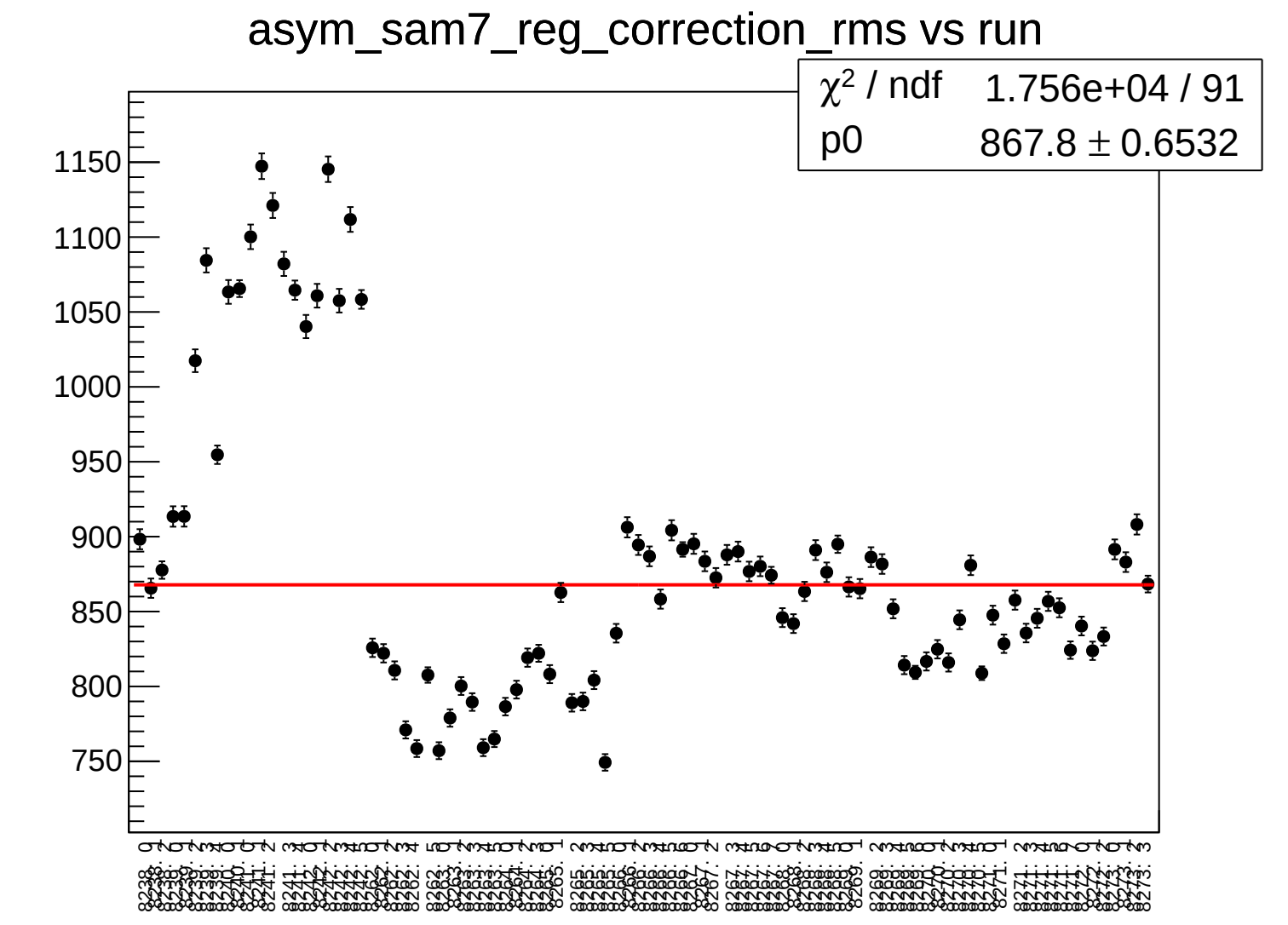

reg_asym_sam7_mean vs run
χ² / ndf 100.3 / 91
p0 −112.2 ± 79.79
pull
Entries 92
Mean −444.7
Std Dev 0

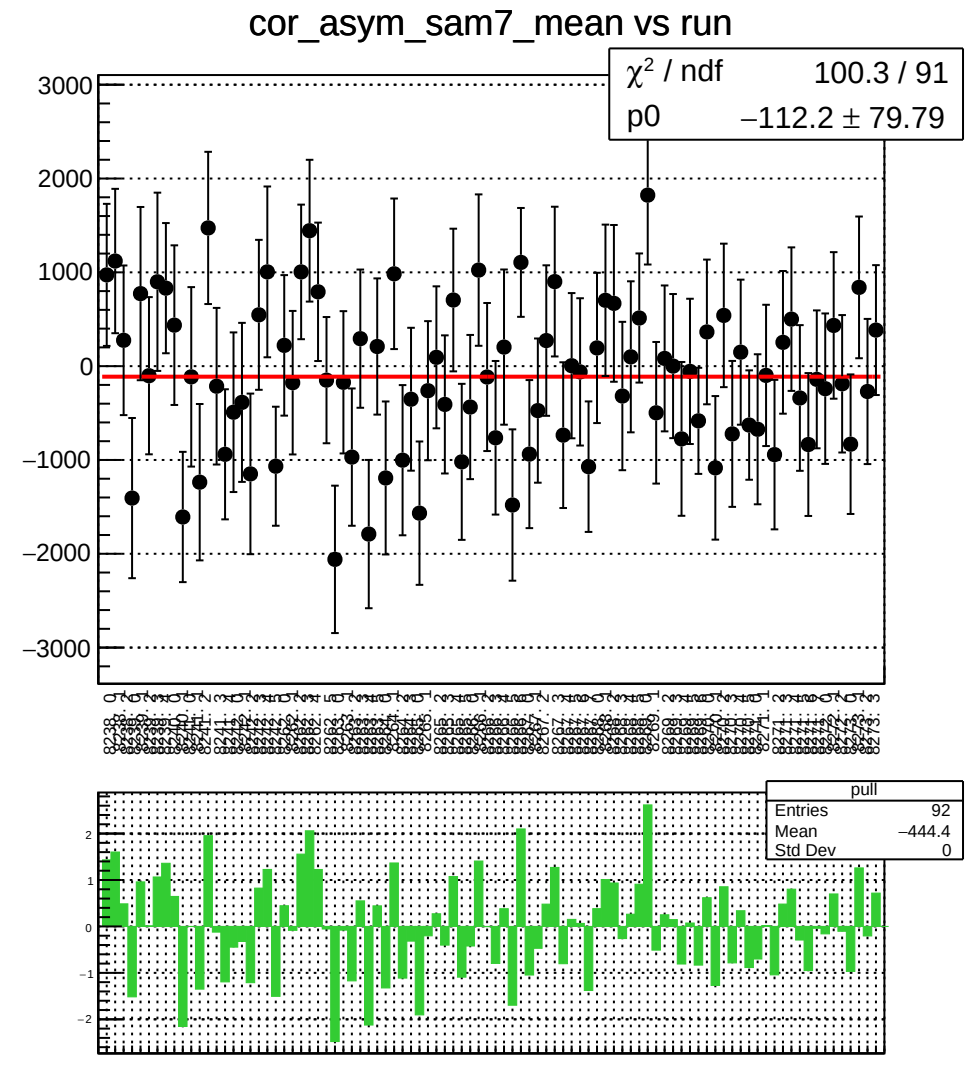

pull1D
Entries 92
Mean 0.00221
Std Dev 1.044

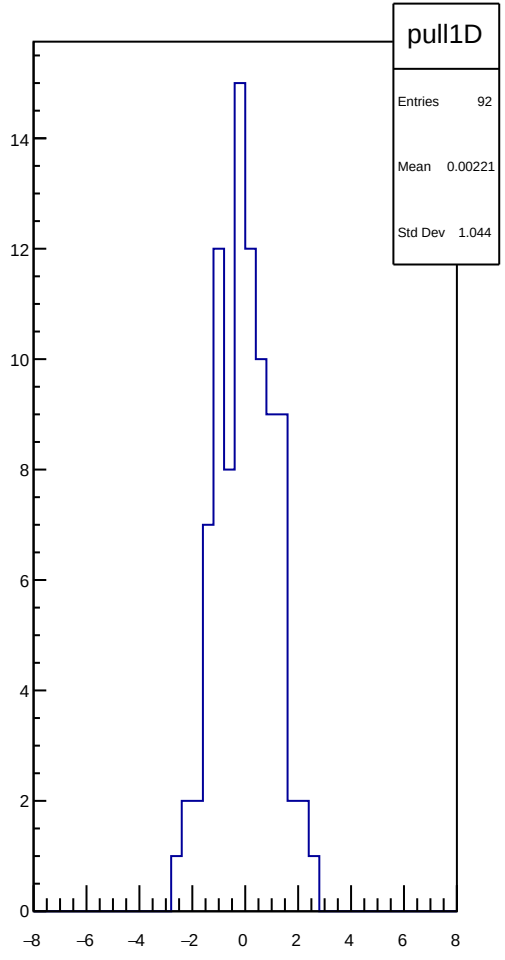

reg_asym_sam7_rms vs run
$\chi^2$ / ndf 5991 / 91
p0 75.21 ± 0.05642
95
90
85
80
75
70
65

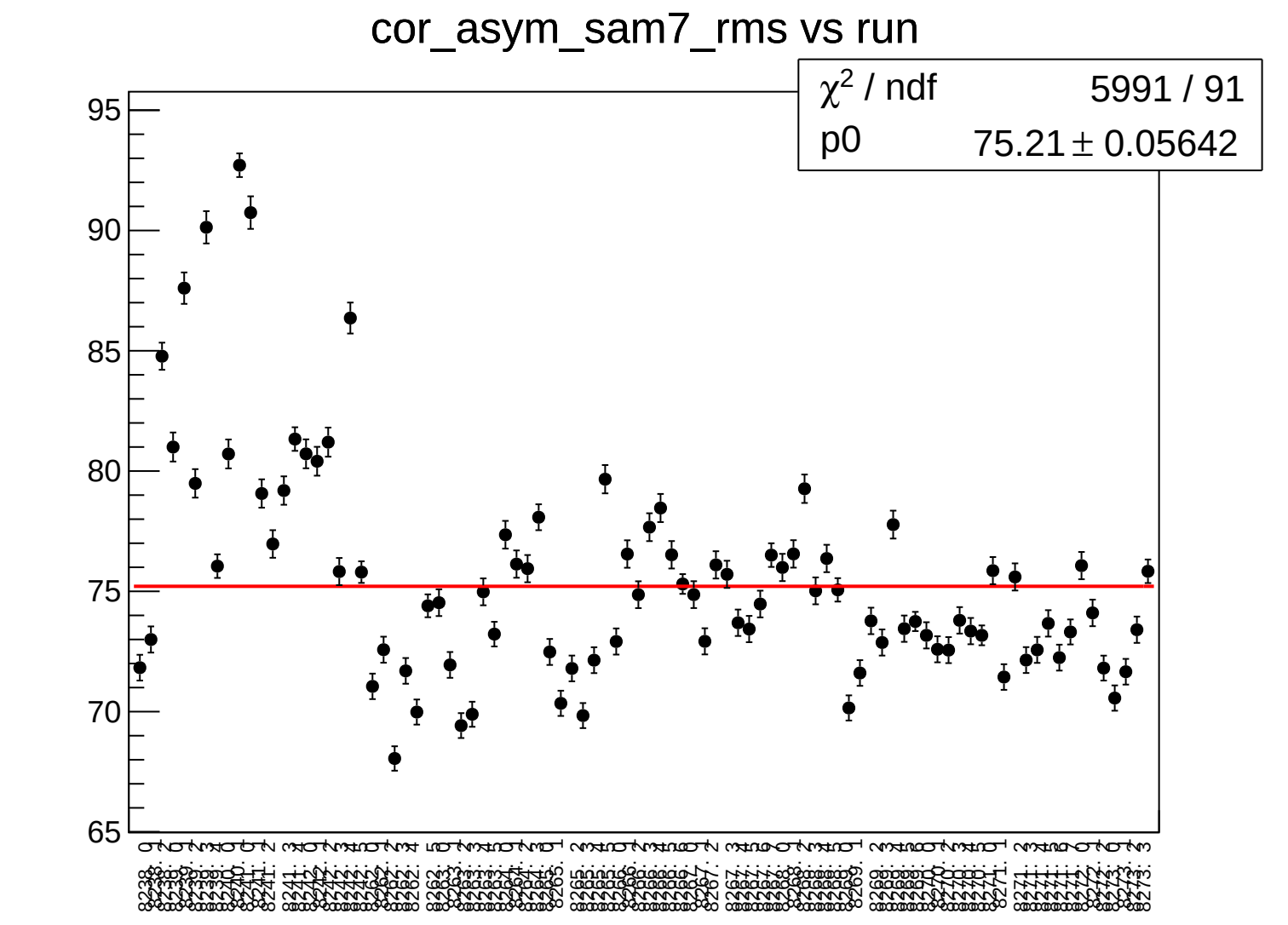

asym_sam7_reg_correction_mean vs run
χ² / ndf 65.58 / 91
p0 −2845 ± 923.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −706.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

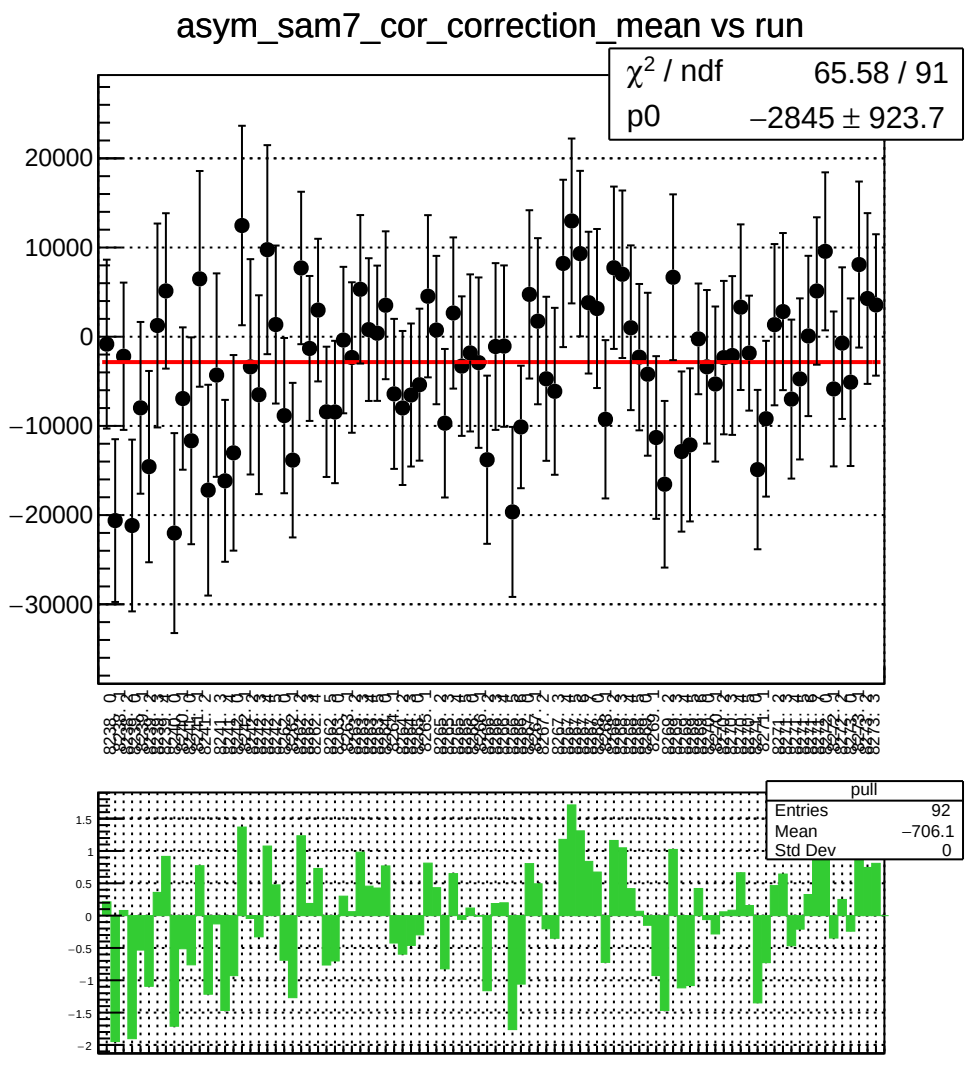

pull1D
Entries 92
Mean −0.007114
Std Dev 0.8443
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

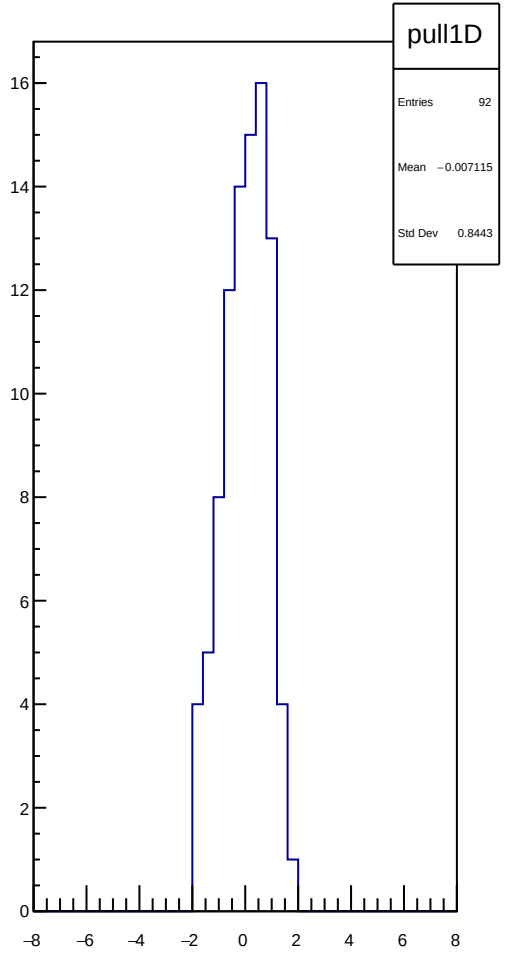

asym_sam7_reg_correction_rms vs run
χ² / ndf 1.756e+04 / 91
p0 867.8 ± 0.6532
1150
1100
1050
1000
950
900
850
800
750

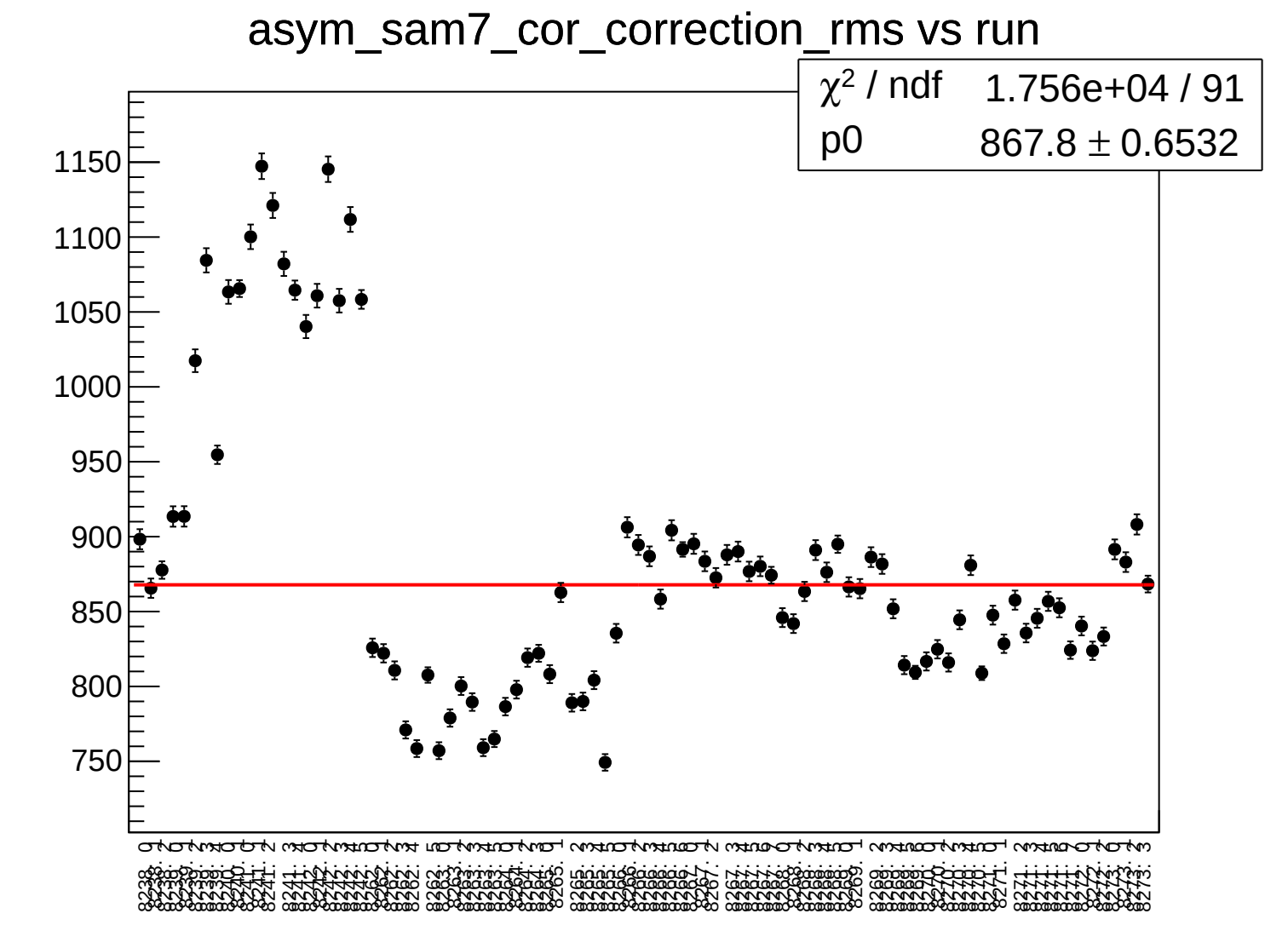

cor_asym_sam7_mean vs run
χ² / ndf 100.3 / 91
p0 −112.2 ± 79.79
pull
Entries 92
Mean −444.4
Std Dev 0

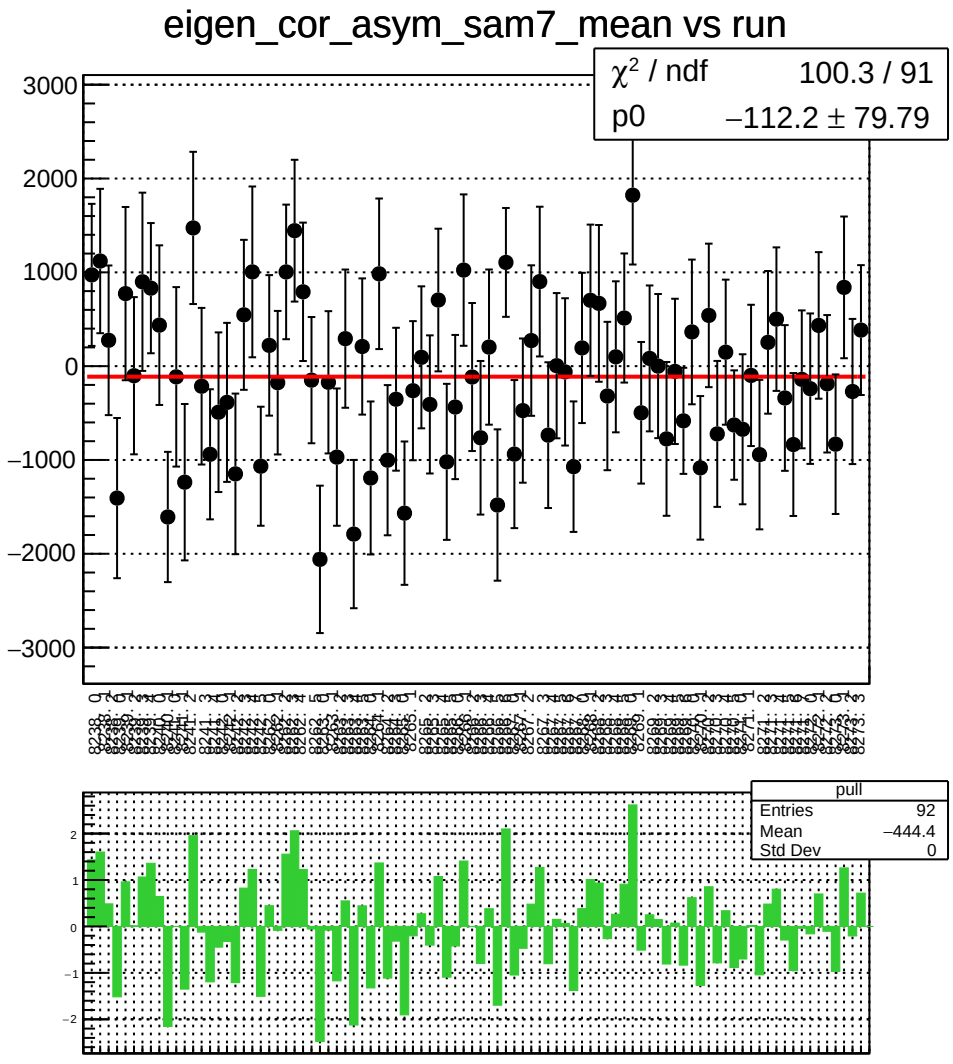

pull1D
Entries 92
Mean 0.00221
Std Dev 1.044

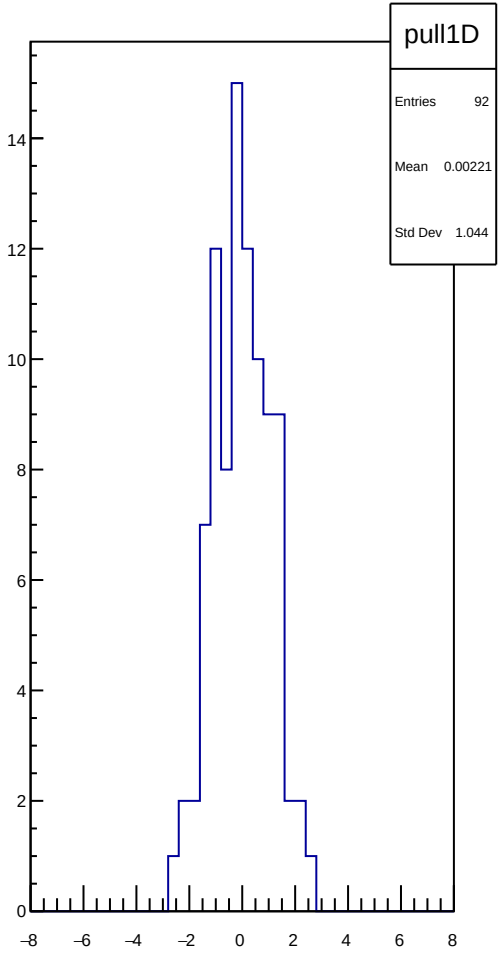

cor_asym_sam7_rms vs run
$\chi^2$ / ndf 5991 / 91
p0 75.21 ± 0.05642
95
90
85
80
75
70
65

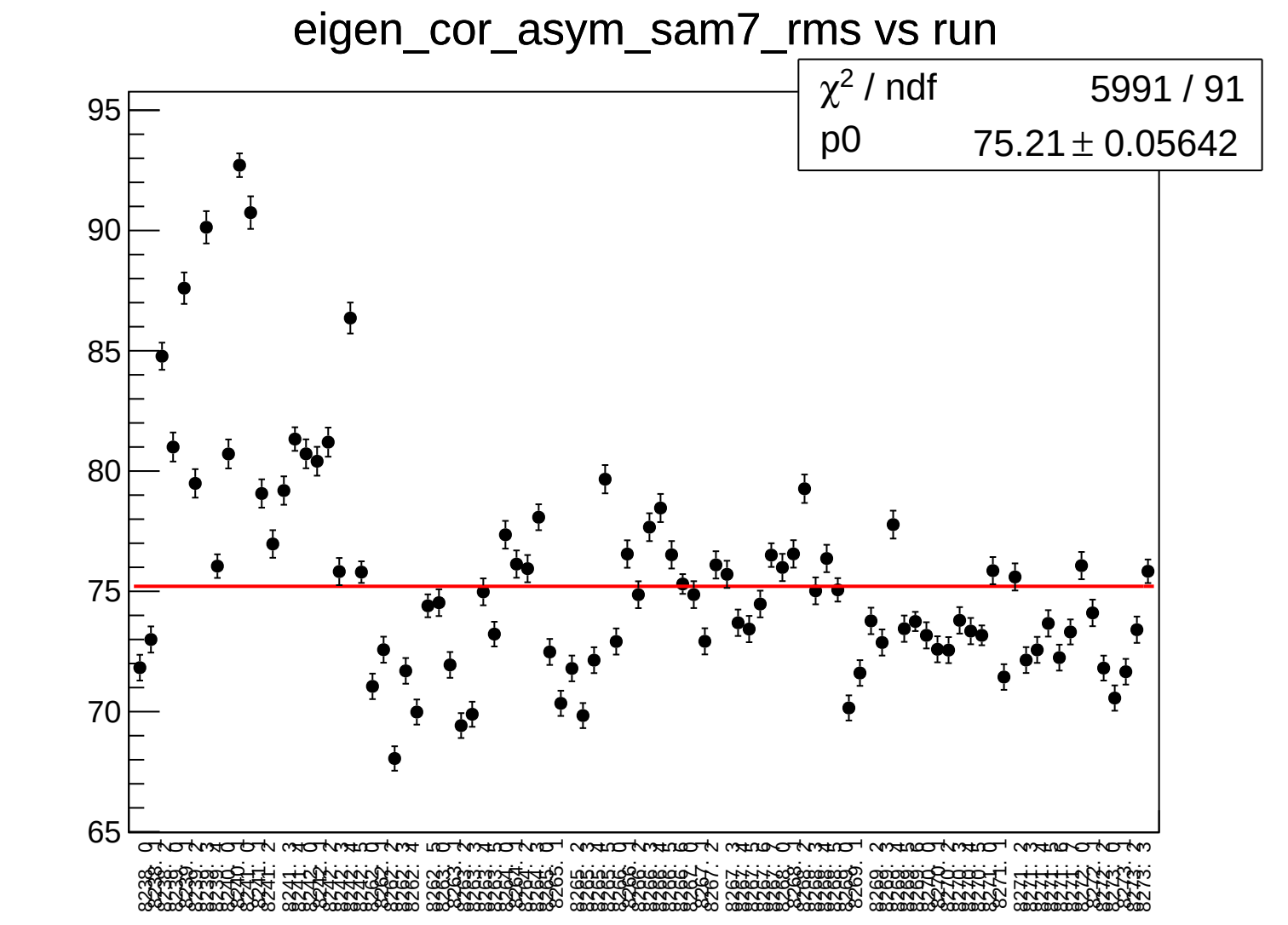

asym_sam7_cor_correction_mean vs run
χ² / ndf 65.58 / 91
p0 −2845 ± 923.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −706.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

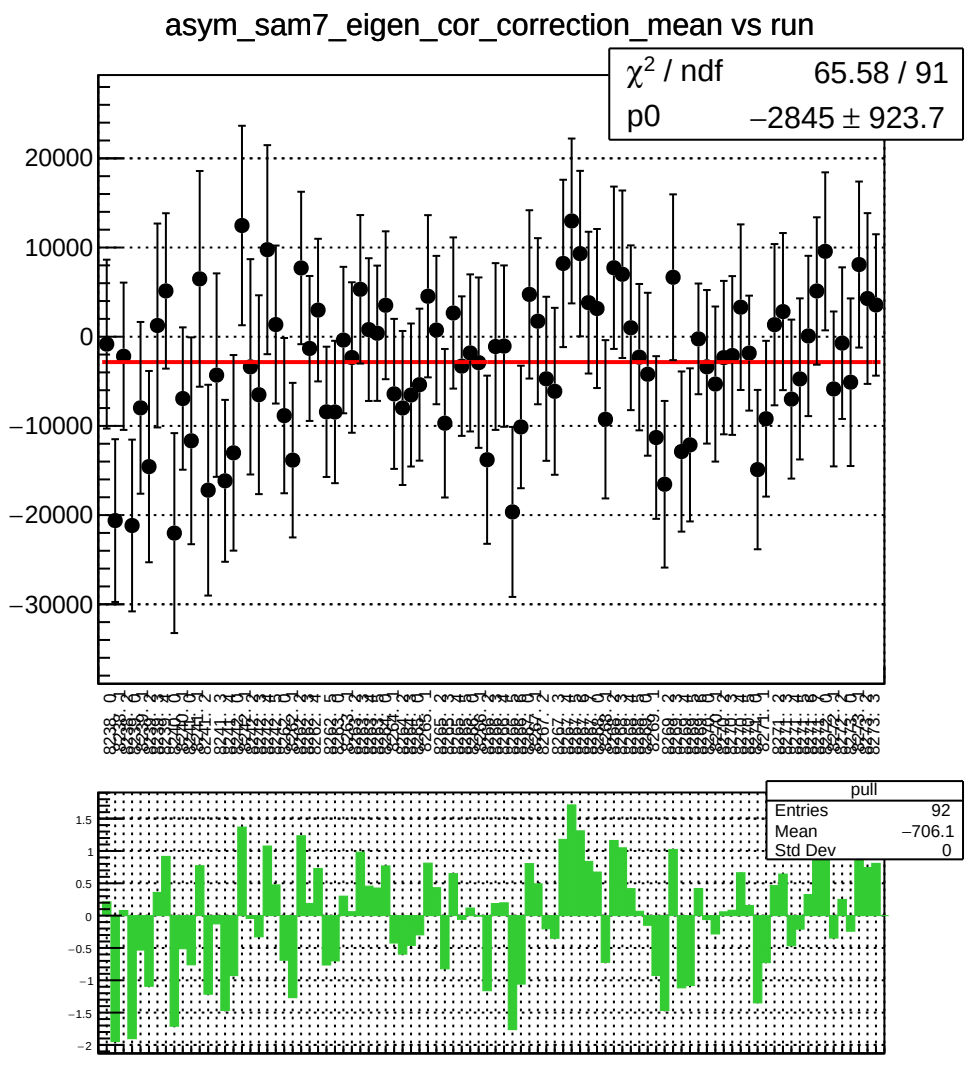

pull1D
Entries 92
Mean −0.007115
Std Dev 0.8443
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

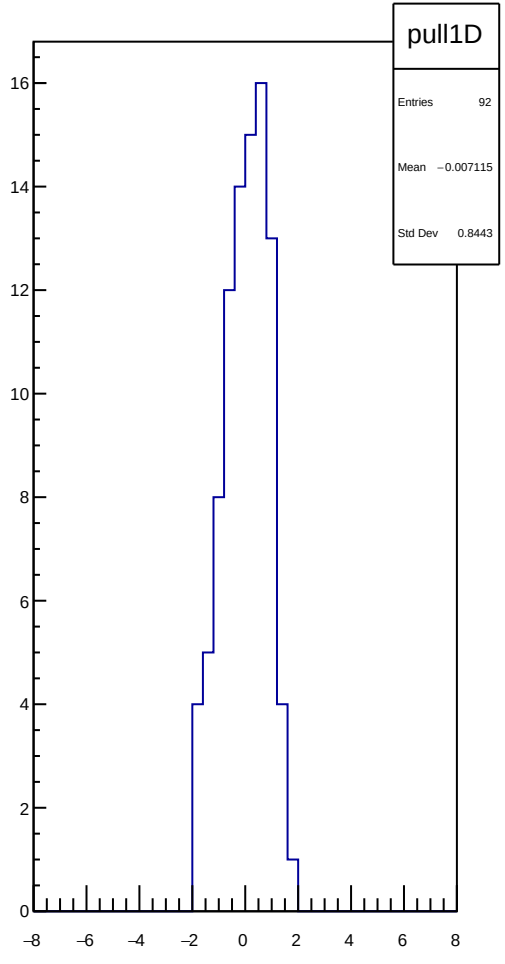

asym_sam7_cor_correction_rms vs run
χ² / ndf 1.756e+04 / 91
p0 867.8 ± 0.6532
1150
1100
1050
1000
950
900
850
800
750

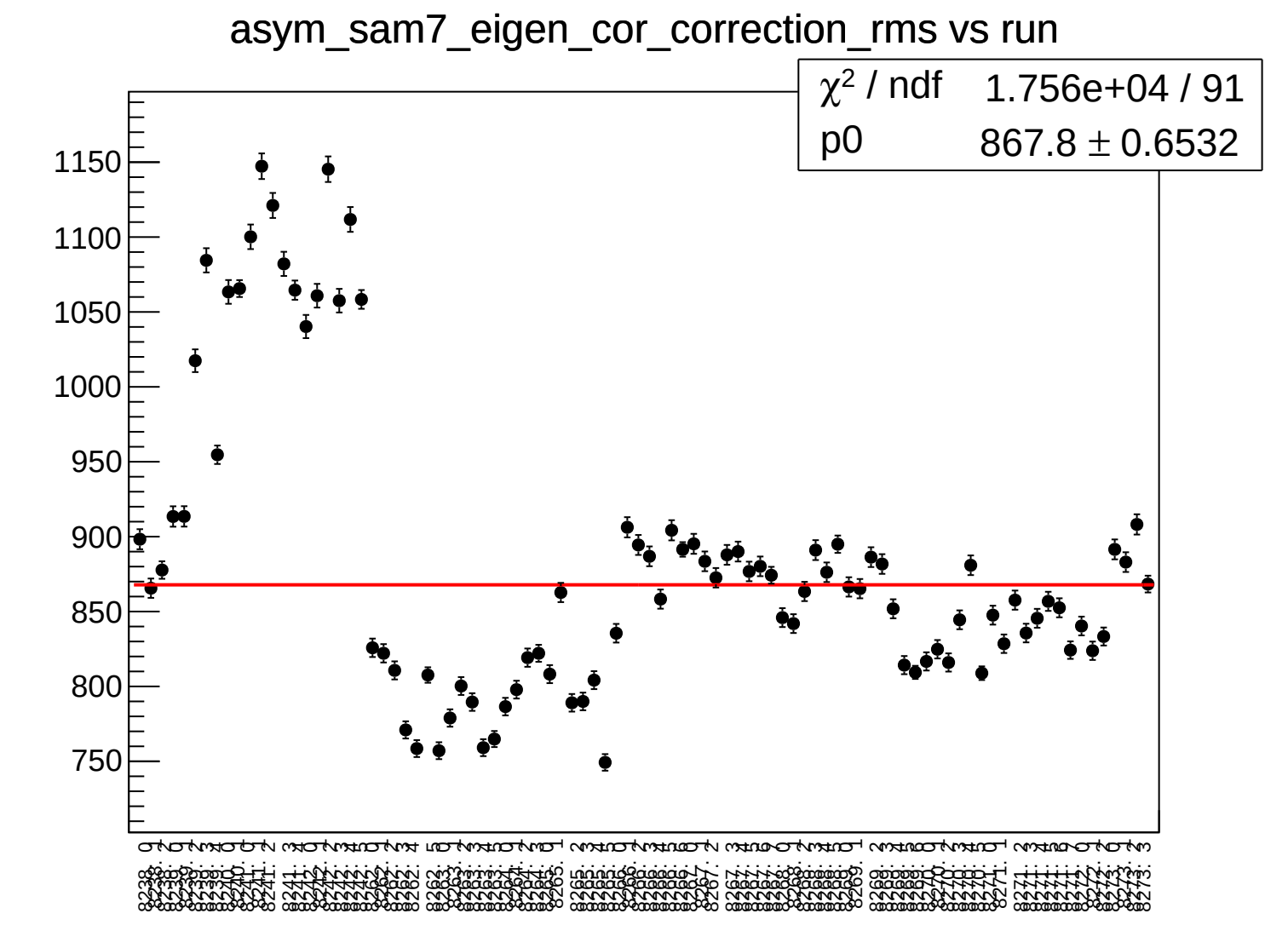

eigen_cor_asym_sam7_mean vs run
χ² / ndf 100.3 / 91
p0 −112.2 ± 79.79
pull
Entries 92
Mean −444.4
Std Dev 0

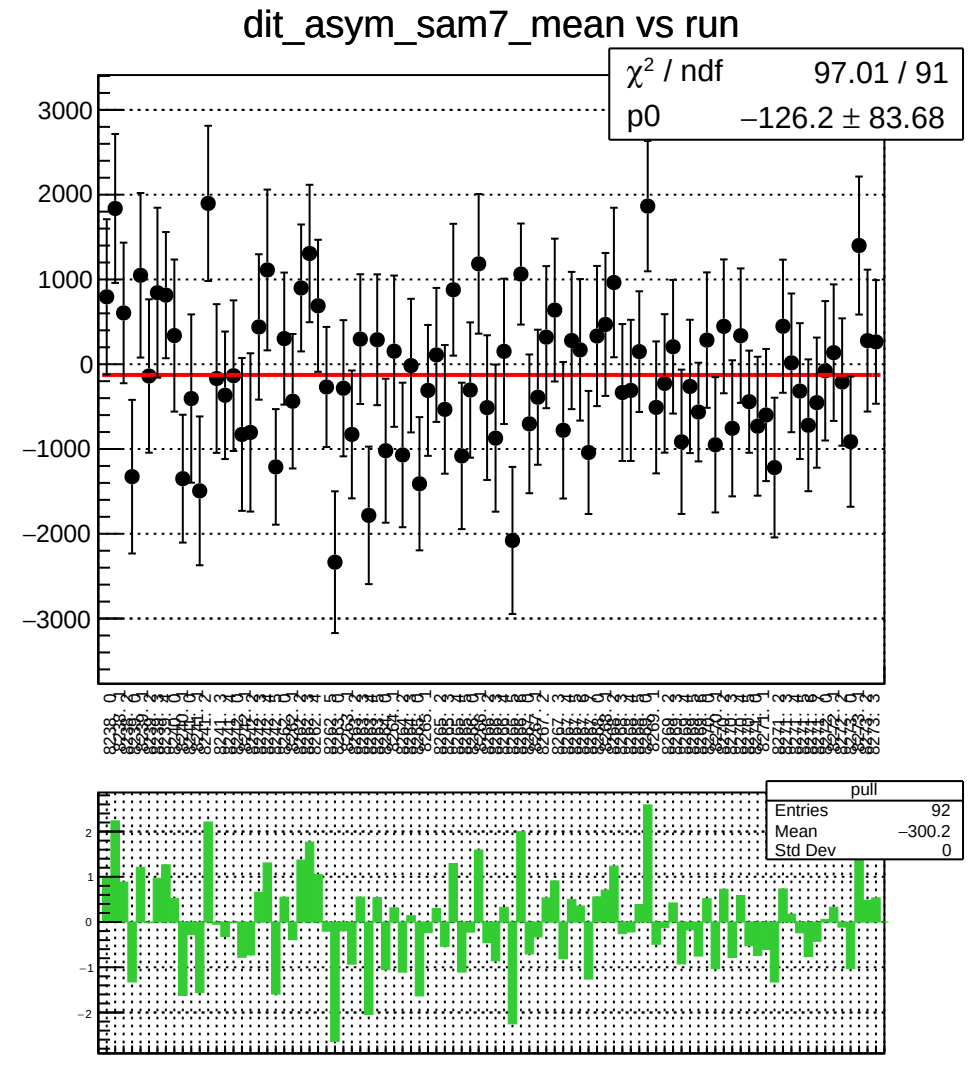

pull1D
Entries 92
Mean 0.00221
Std Dev 1.044

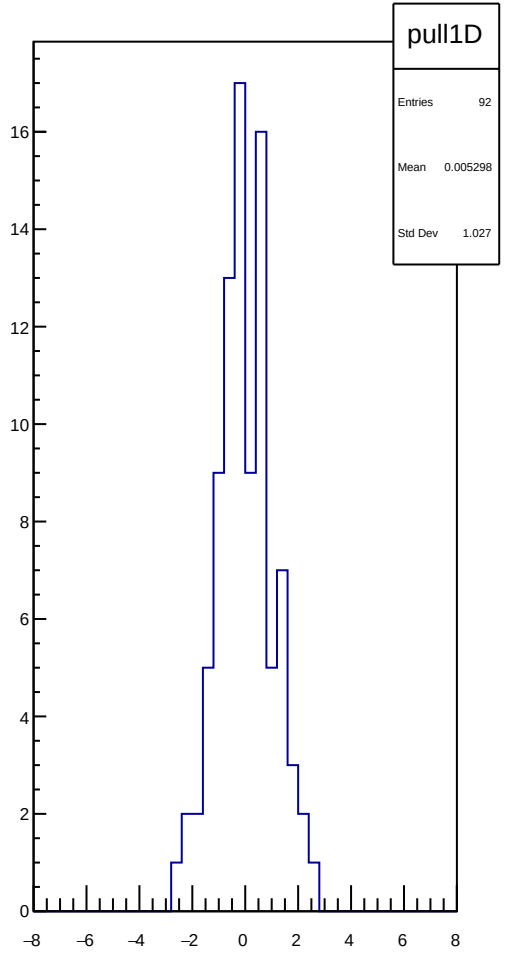

eigen_cor_asym_sam7_rms vs run
$\chi^2$ / ndf 5991 / 91
p0 75.21 ± 0.05642
95
90
85
80
75
70
65

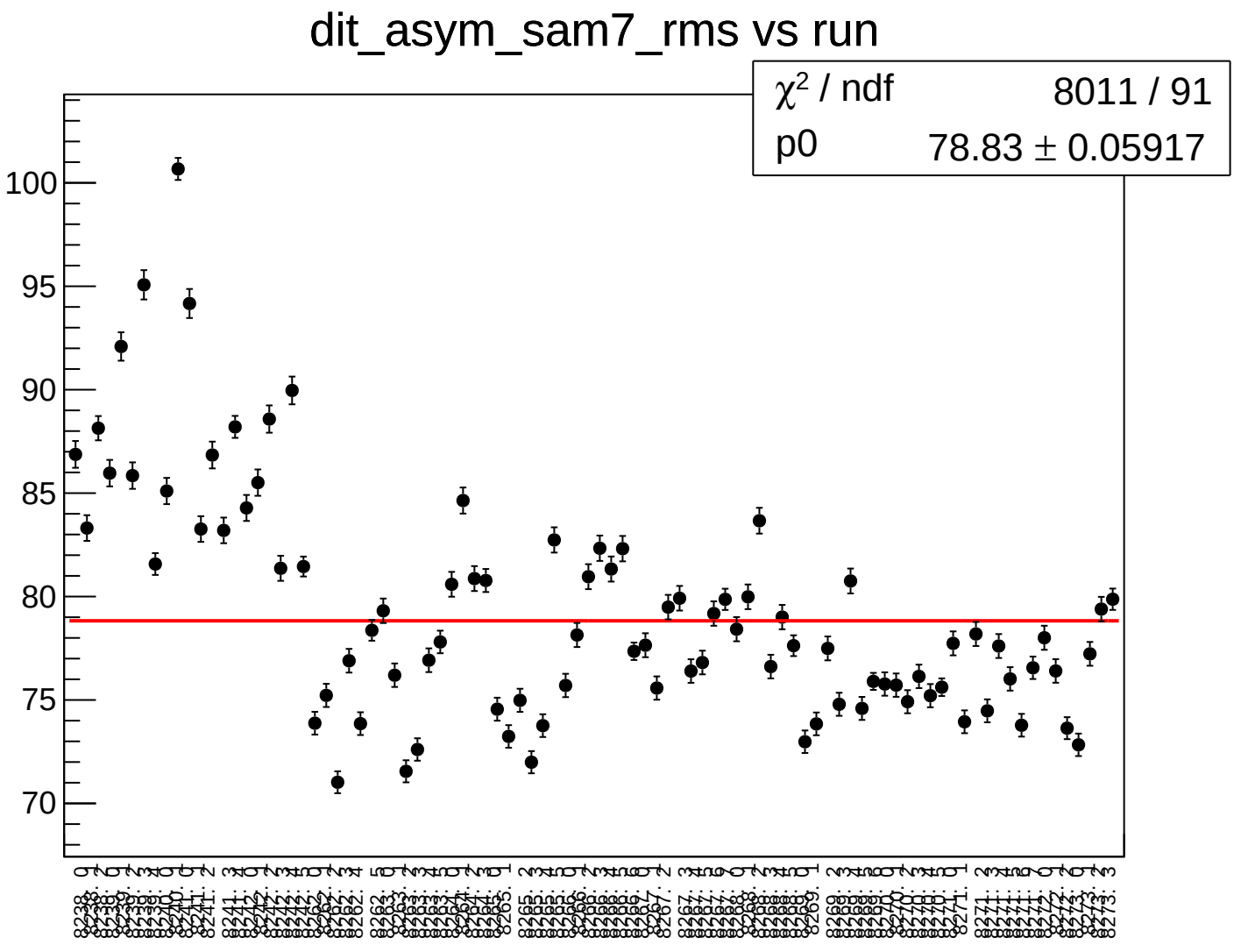

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 65.58 / 91
p0 −2845 ± 923.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −706.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

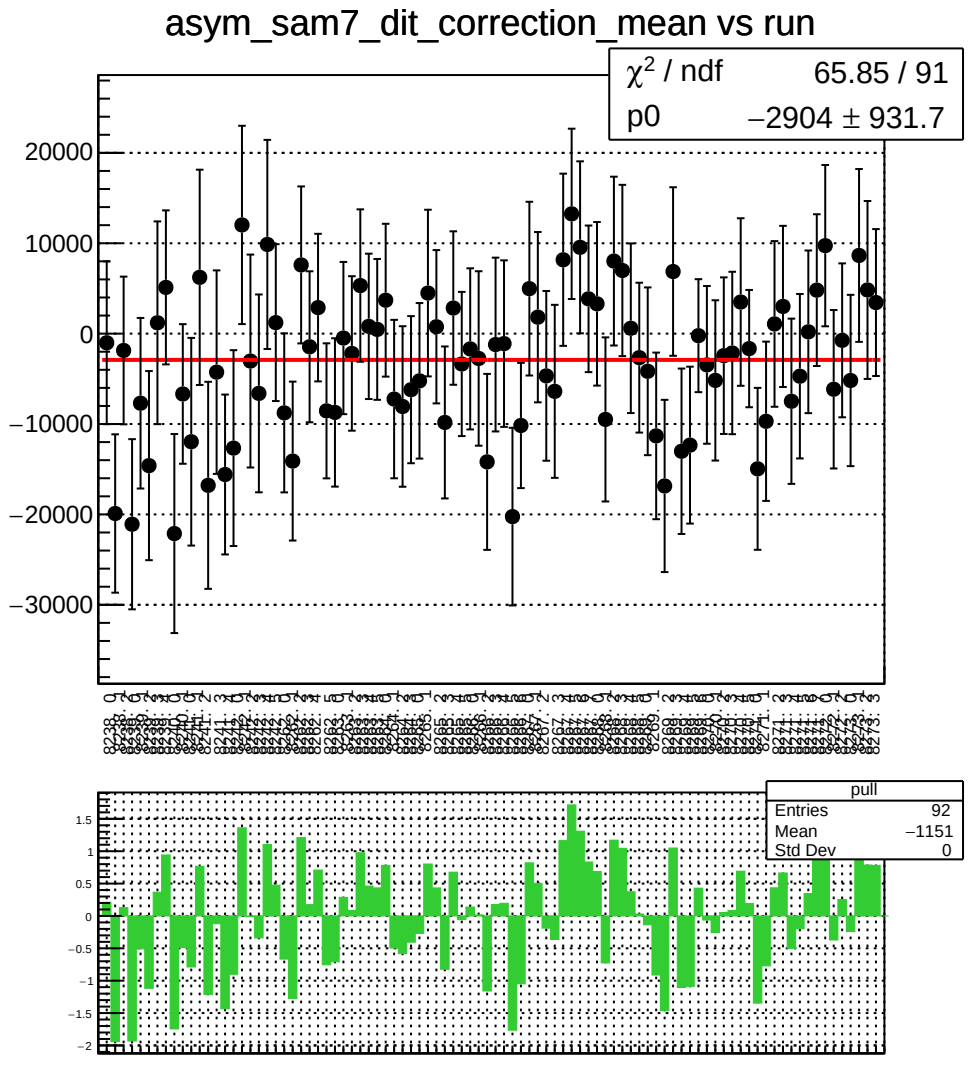

pull1D
Entries 92
Mean −0.007115
Std Dev 0.8443
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

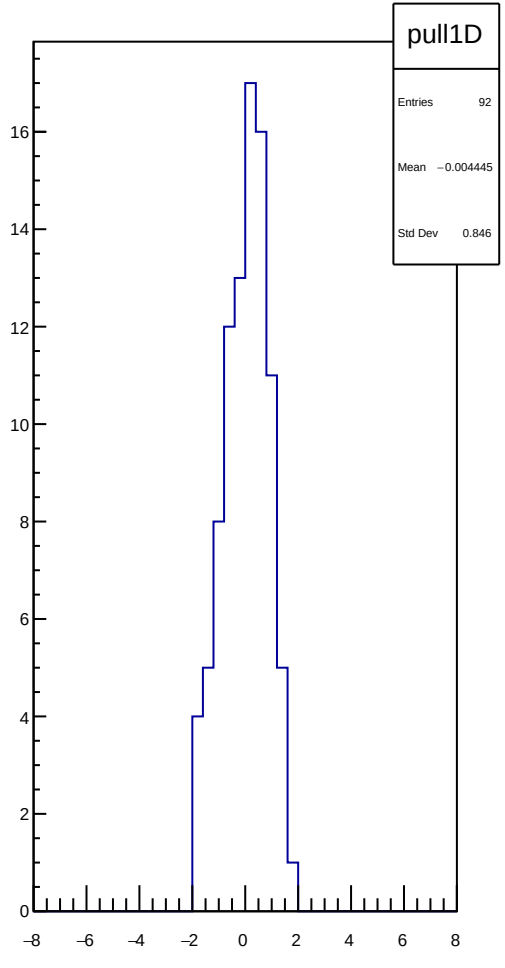

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 1.756e+04 / 91
p0 867.8 ± 0.6532
1150
1100
1050
1000
950
900
850
800
750

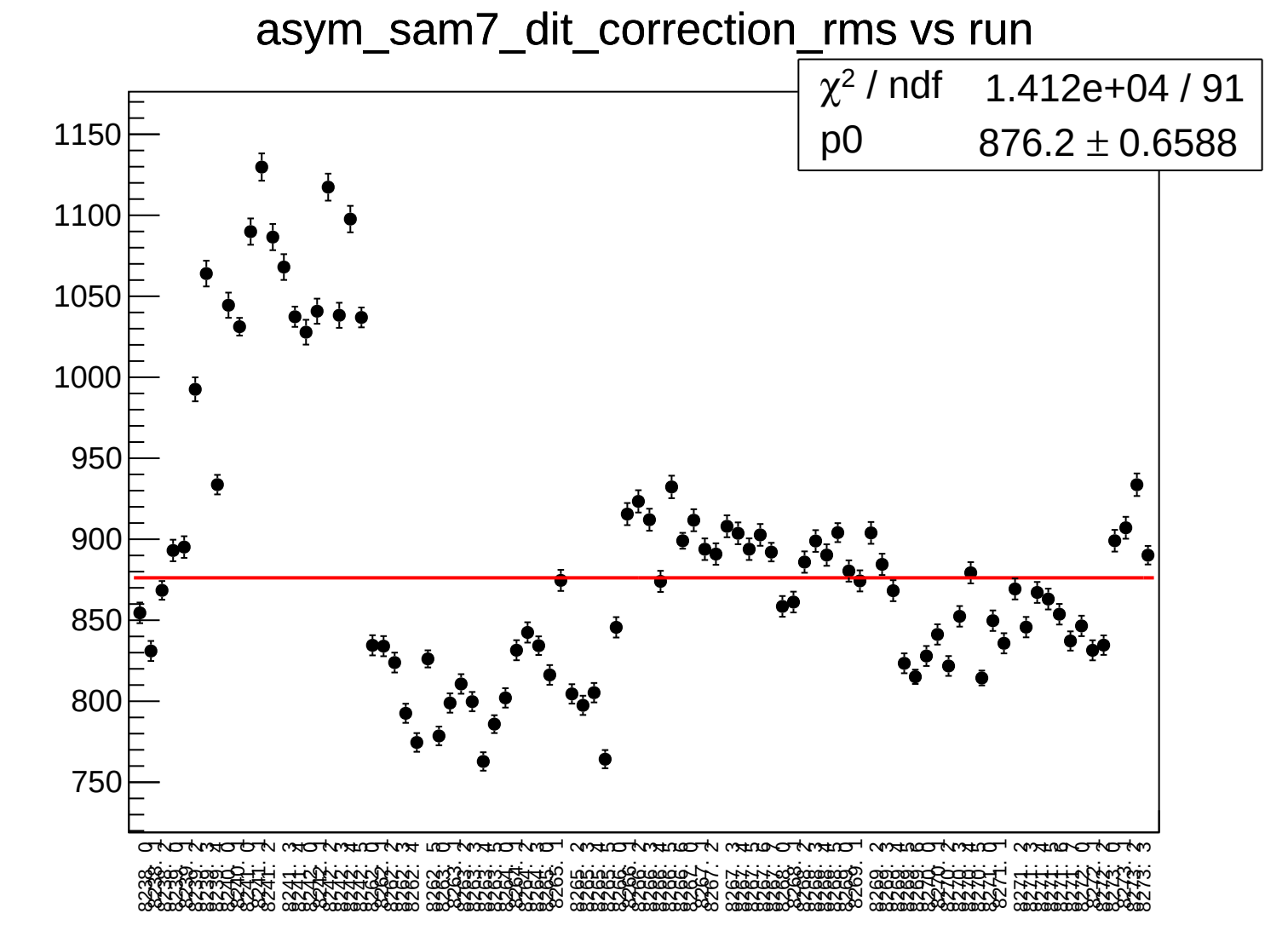

dit_asym_sam7_mean vs run
χ² / ndf 97.01 / 91
p0 −126.2 ± 83.68
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −300.2
Std Dev 0
2
1
0
−1
−2

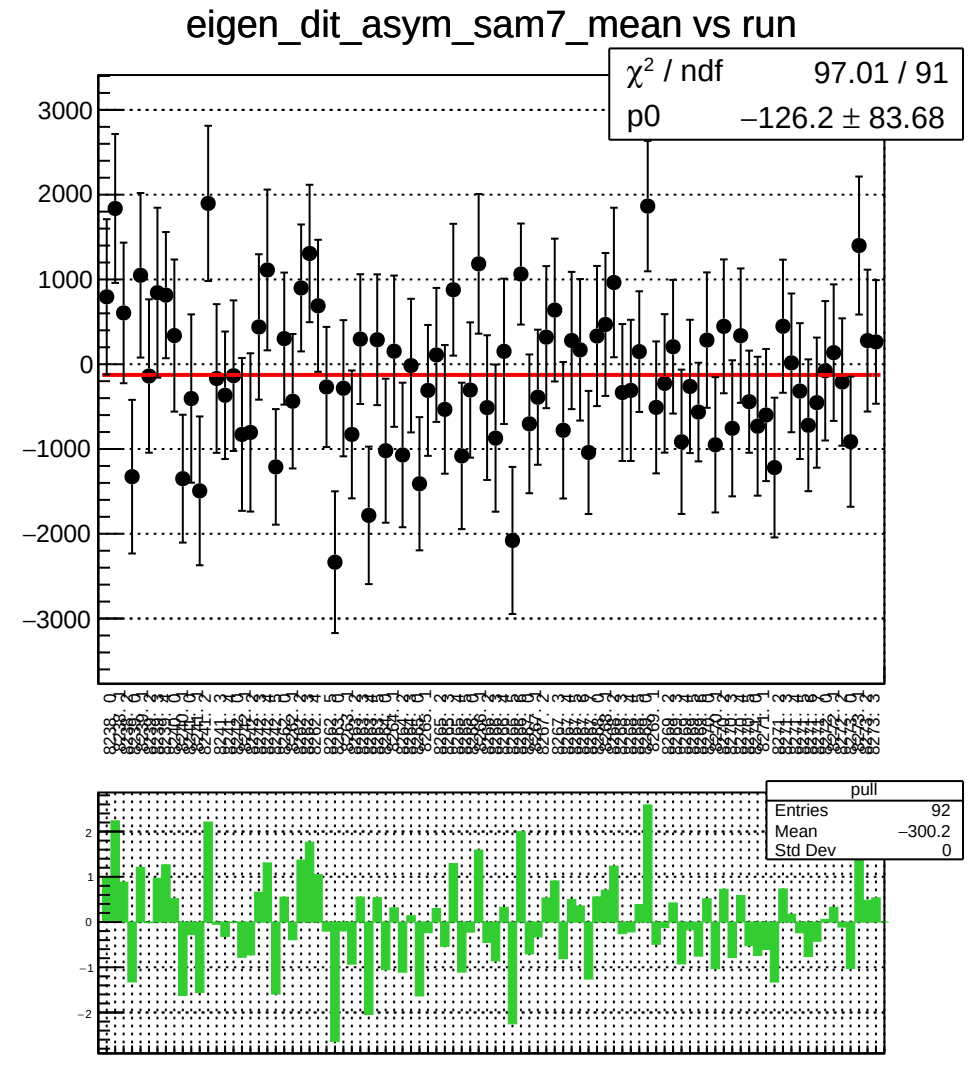

pull1D
Entries 92
Mean 0.005298
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

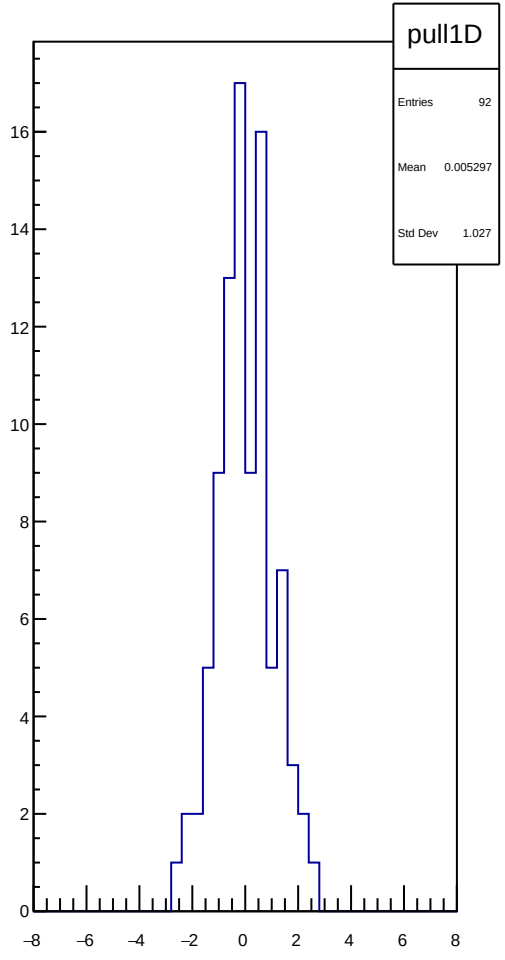

dit_asym_sam7_rms vs run
$\chi^2$ / ndf 8011 / 91
p0 78.83 ± 0.05917
100
95
90
85
80
75
70

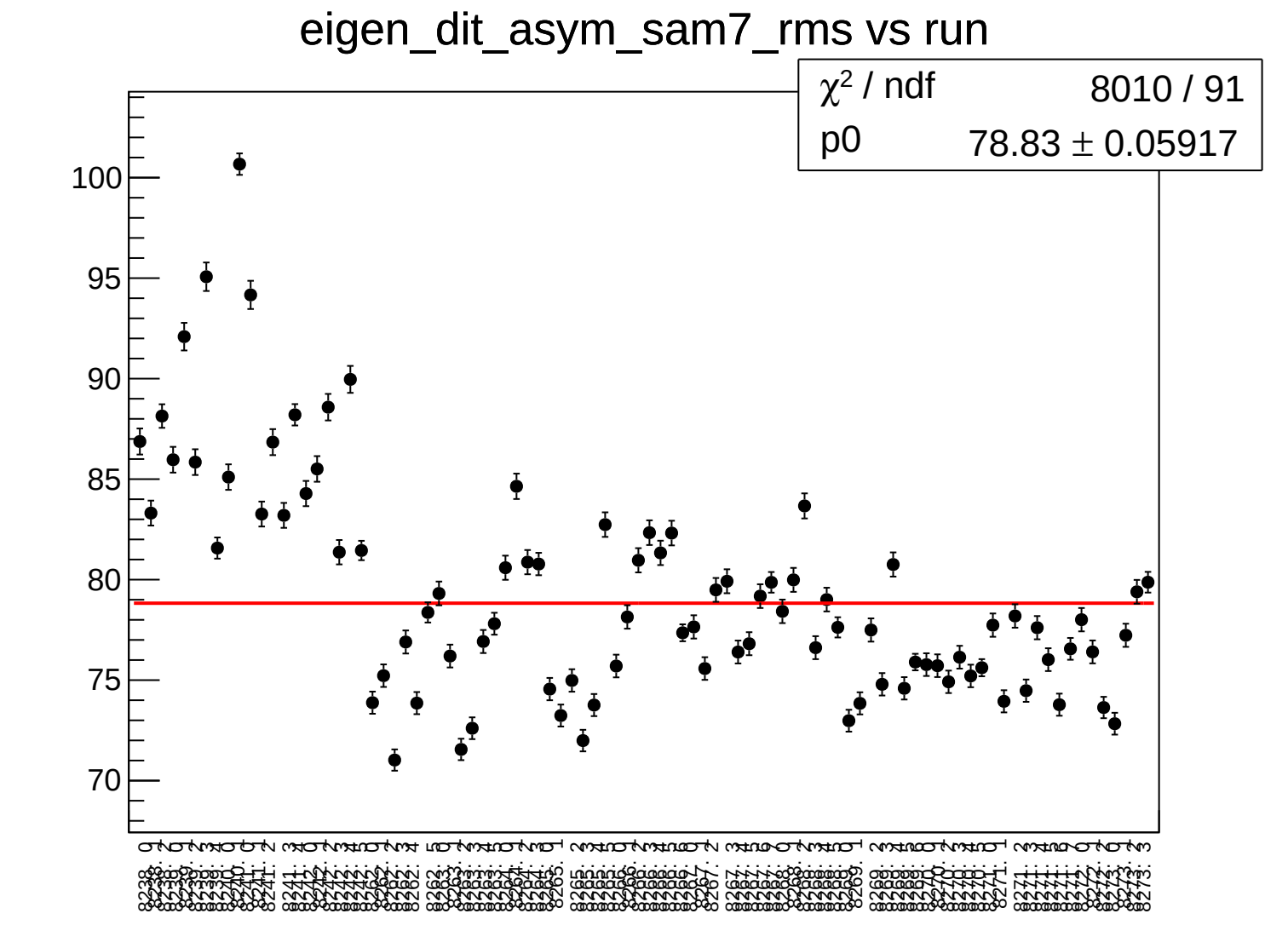

asym_sam7_dit_correction_mean vs run
χ² / ndf 65.85 / 91
p0 −2904 ± 931.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1151
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

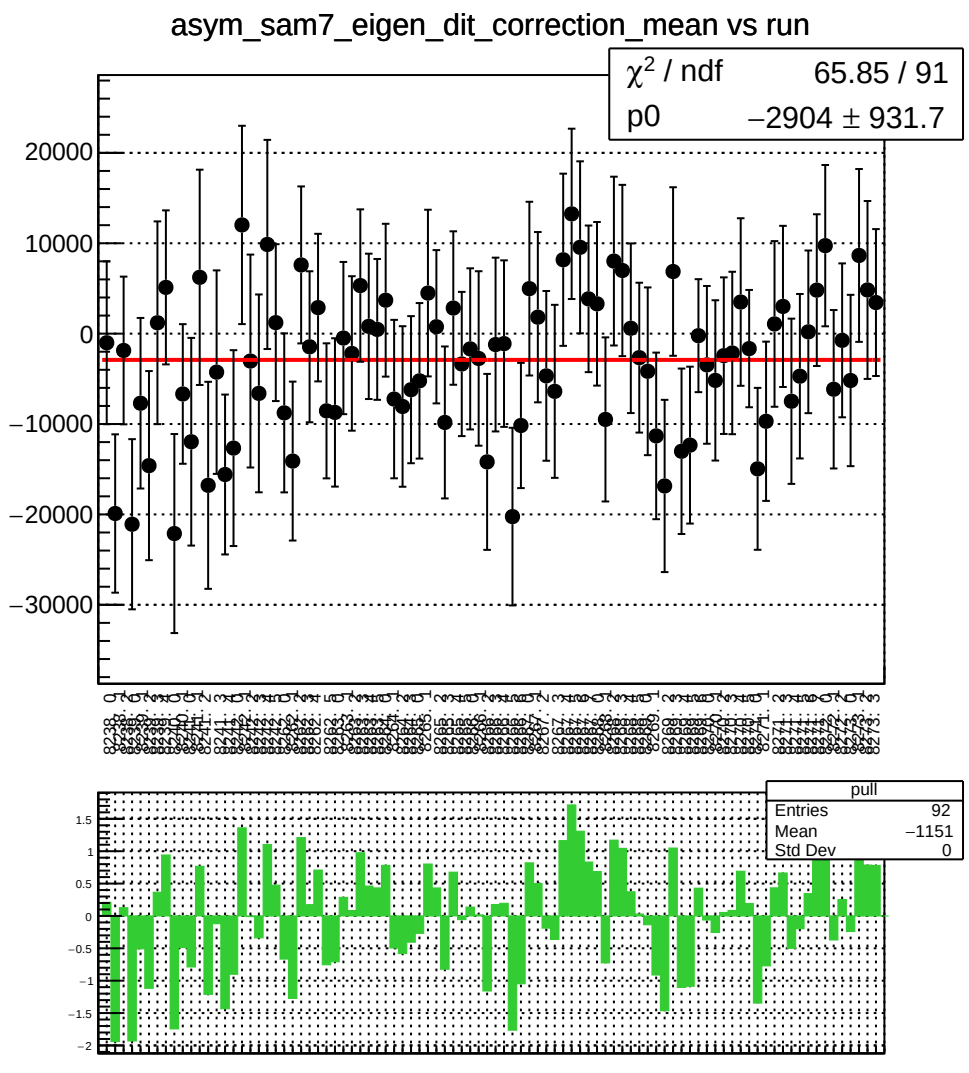

pull1D
Entries 92
Mean −0.004445
Std Dev 0.846
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

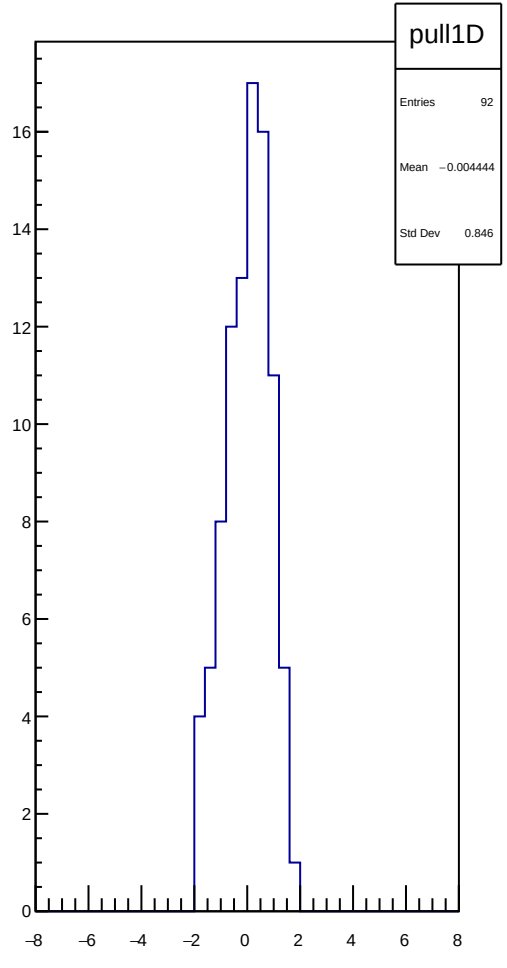

asym_sam7_dit_correction_rms vs run
χ² / ndf 1.412e+04 / 91
p0 876.2 ± 0.6588
1150
1100
1050
1000
950
900
850
800
750

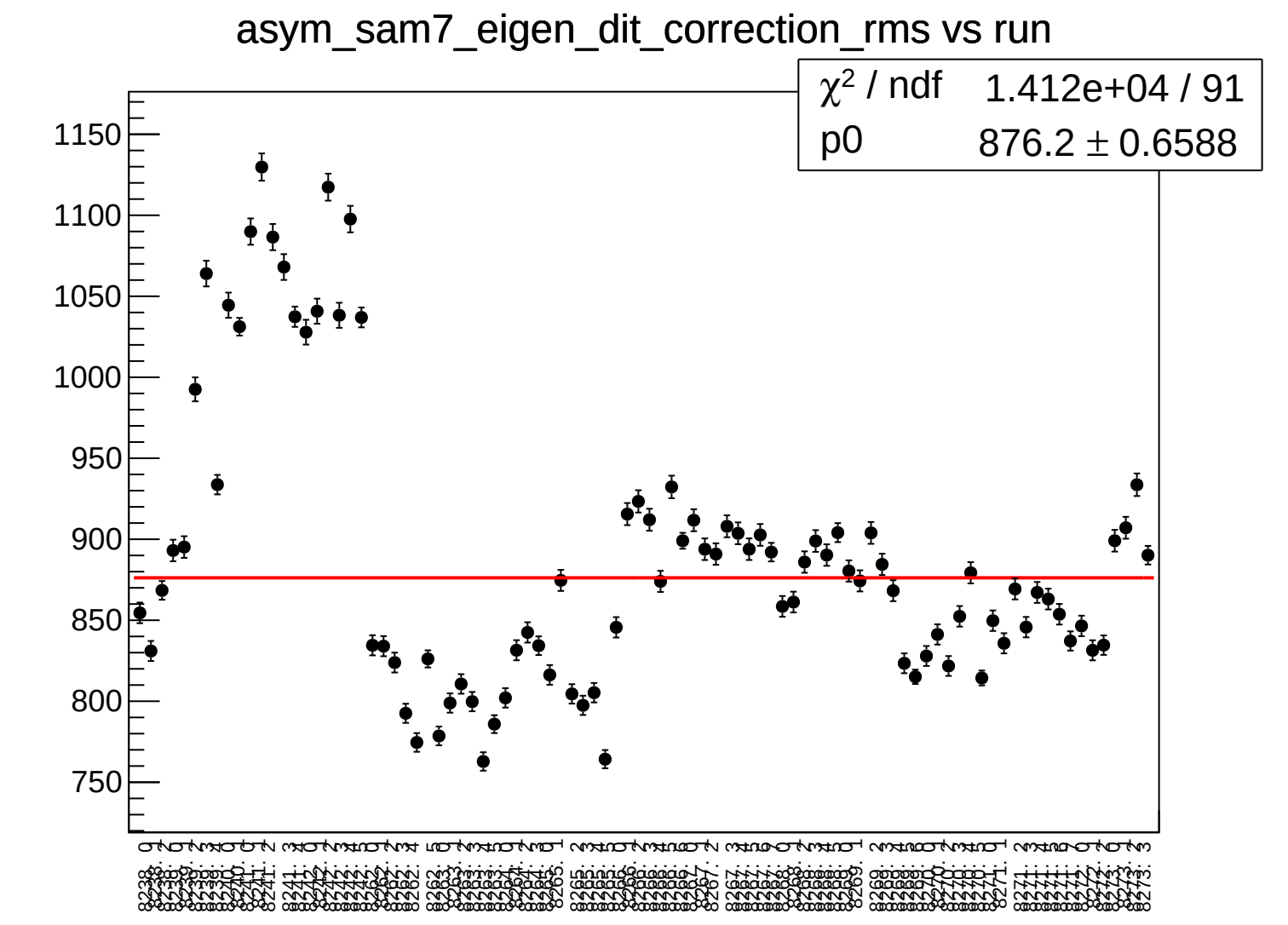

eigen_dit_asym_sam7_mean vs run
χ² / ndf 97.01 / 91
p0 −126.2 ± 83.68
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −300.2
Std Dev 0
2
1
0
−1
−2

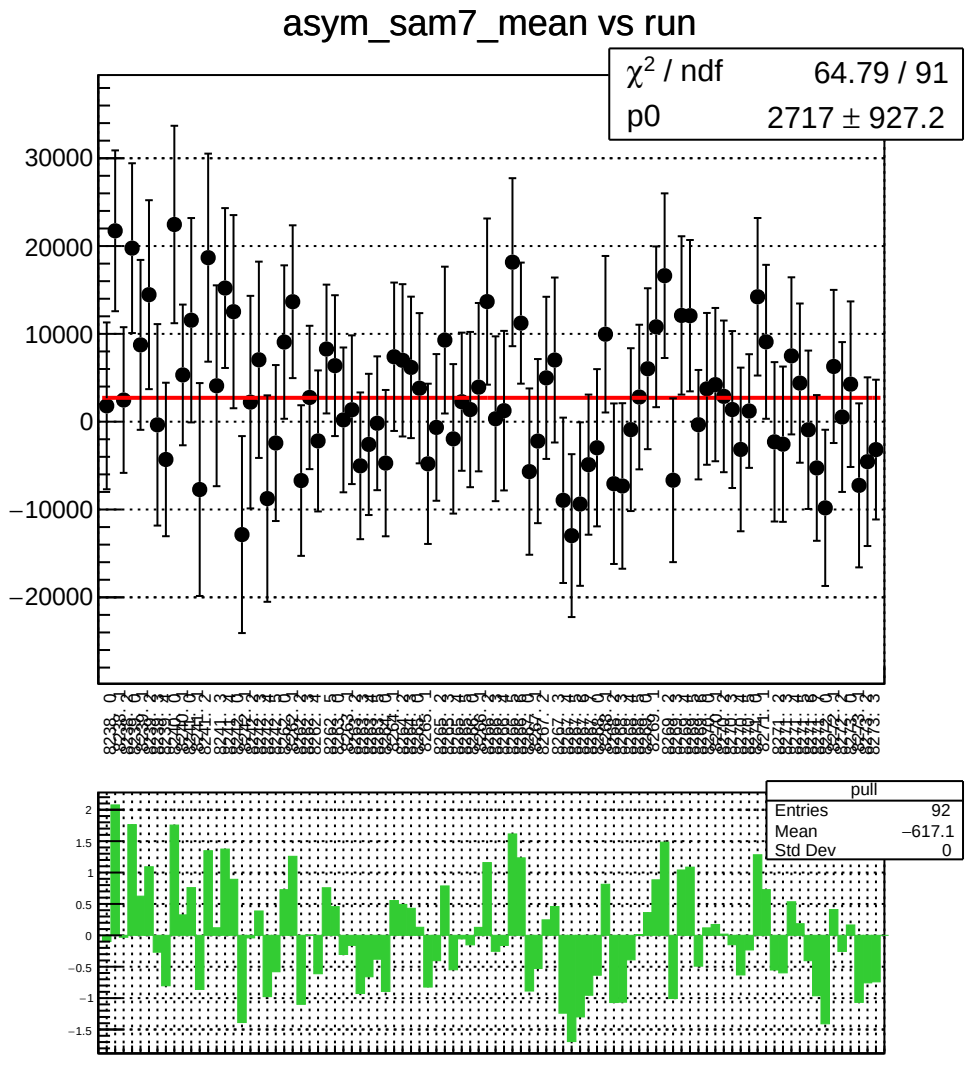

pull1D
Entries 92
Mean 0.005297
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

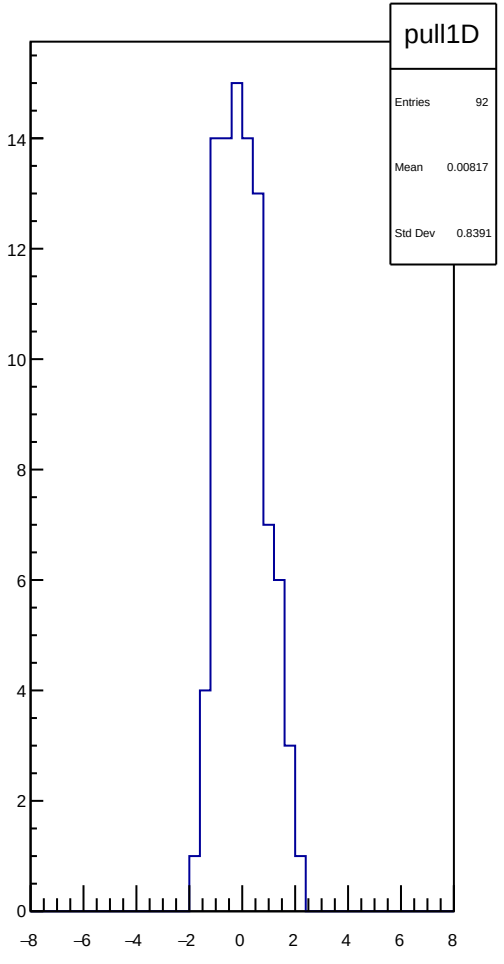

eigen_dit_asym_sam7_rms vs run
$\chi^2$ / ndf 8010 / 91
p0 78.83 ± 0.05917
100
95
90
85
80
75
70

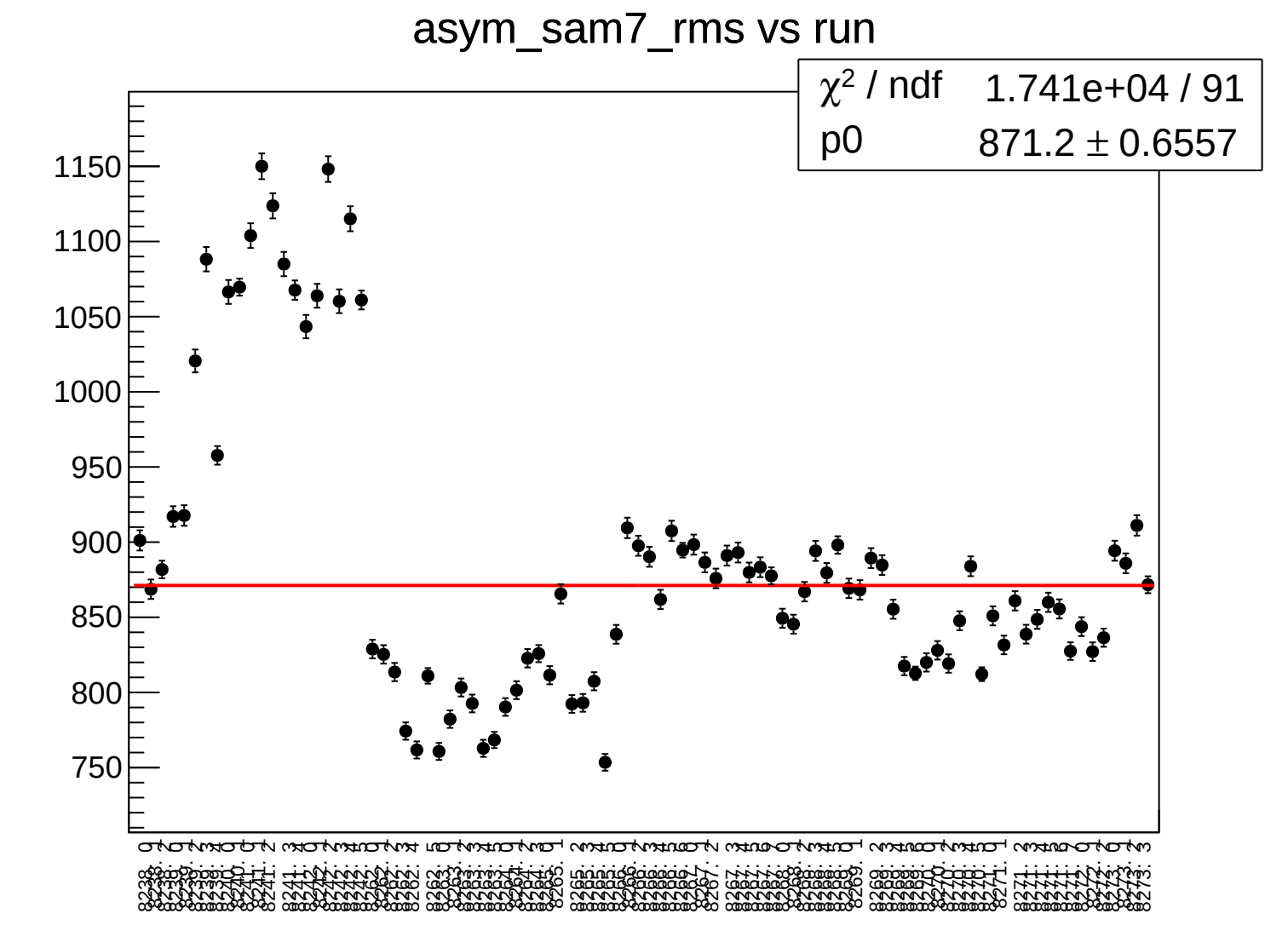

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 65.85 / 91
p0 −2904 ± 931.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1151
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

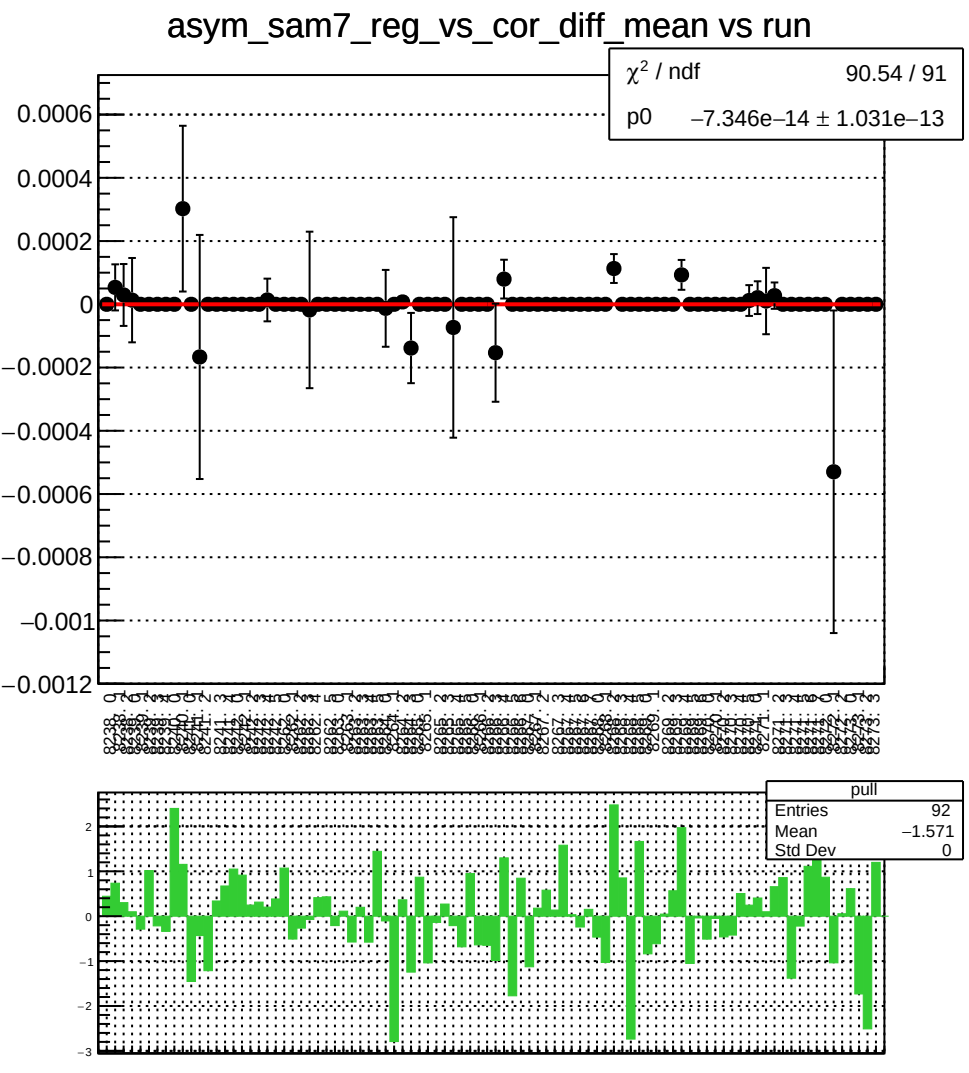

pull1D
Entries 92
Mean −0.004444
Std Dev 0.846
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

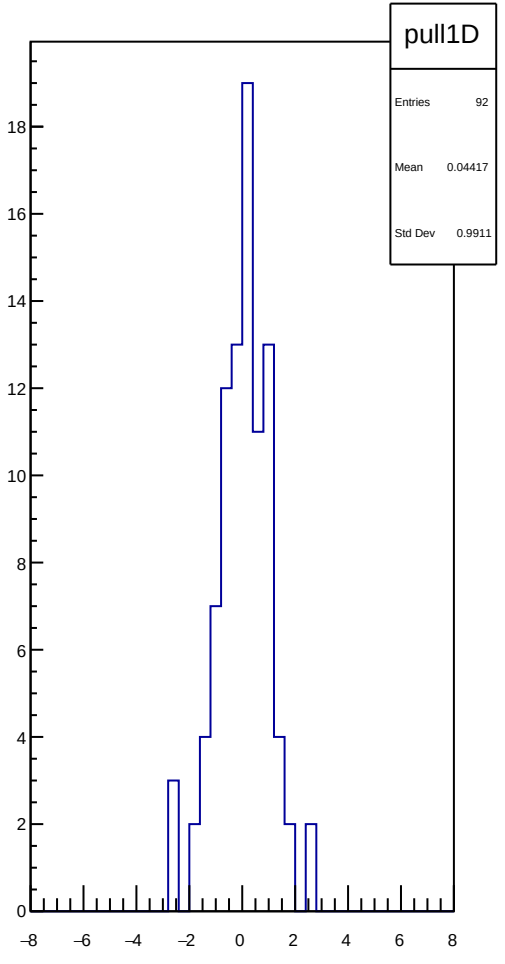

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 1.412e+04 / 91
p0 876.2 ± 0.6588
1150
1100
1050
1000
950
900
850
800
750

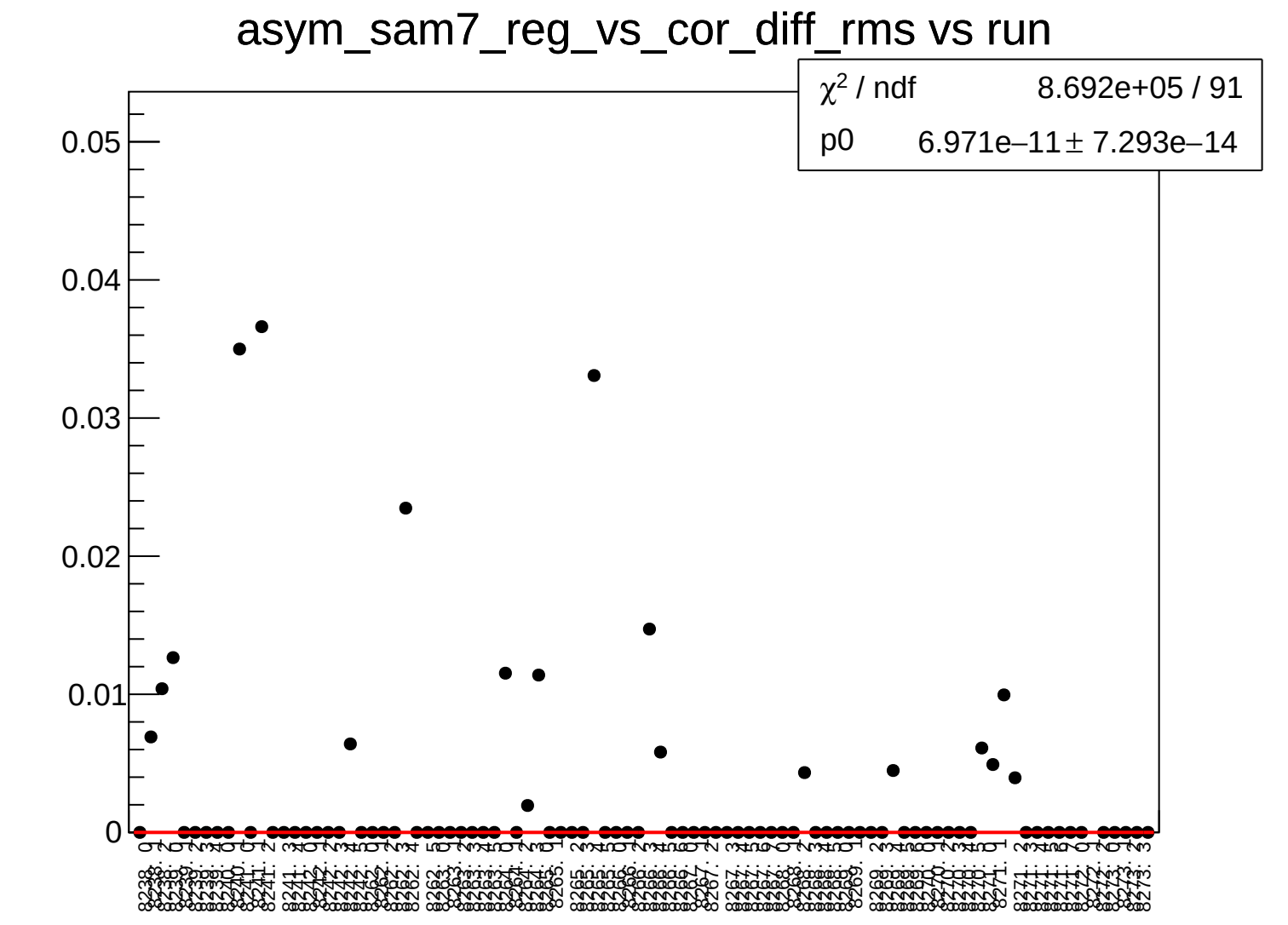

asym_sam7_mean vs run
χ² / ndf 64.79 / 91
p0 2717 ± 927.2
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −617.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

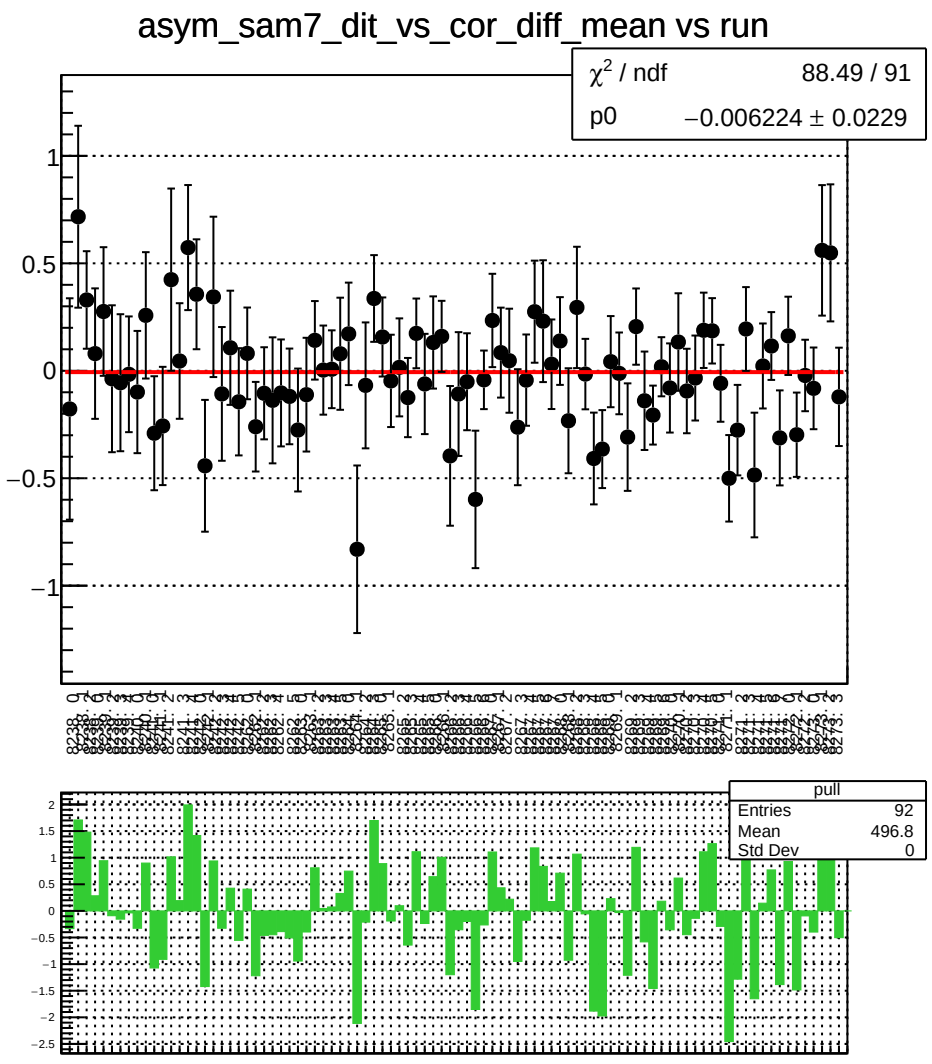

pull1D
Entries 92
Mean 0.00817
Std Dev 0.8391
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

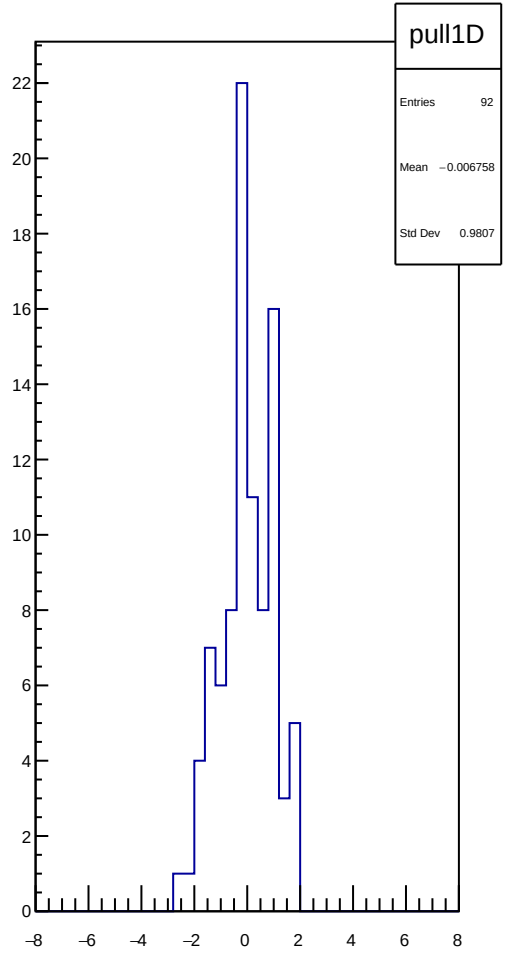

asym_sam7_rms vs run
χ² / ndf 1.741e+04 / 91
p0 871.2 ± 0.6557
1150
1100
1050
1000
950
900
850
800
750

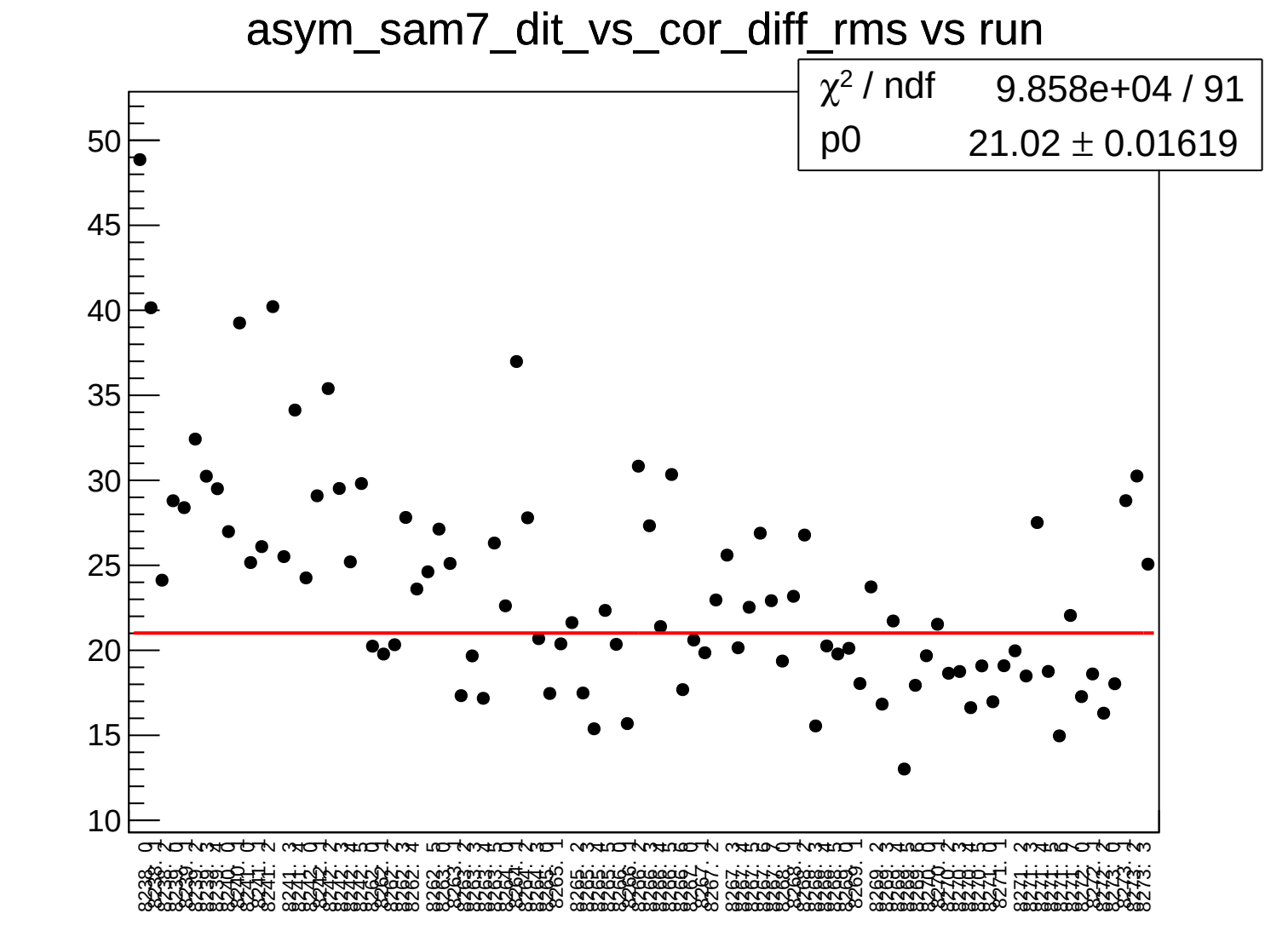

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 90.54 / 91
p0 −7.346e−14 ± 1.031e−13
pull
Entries 92
Mean −1.571
Std Dev 0

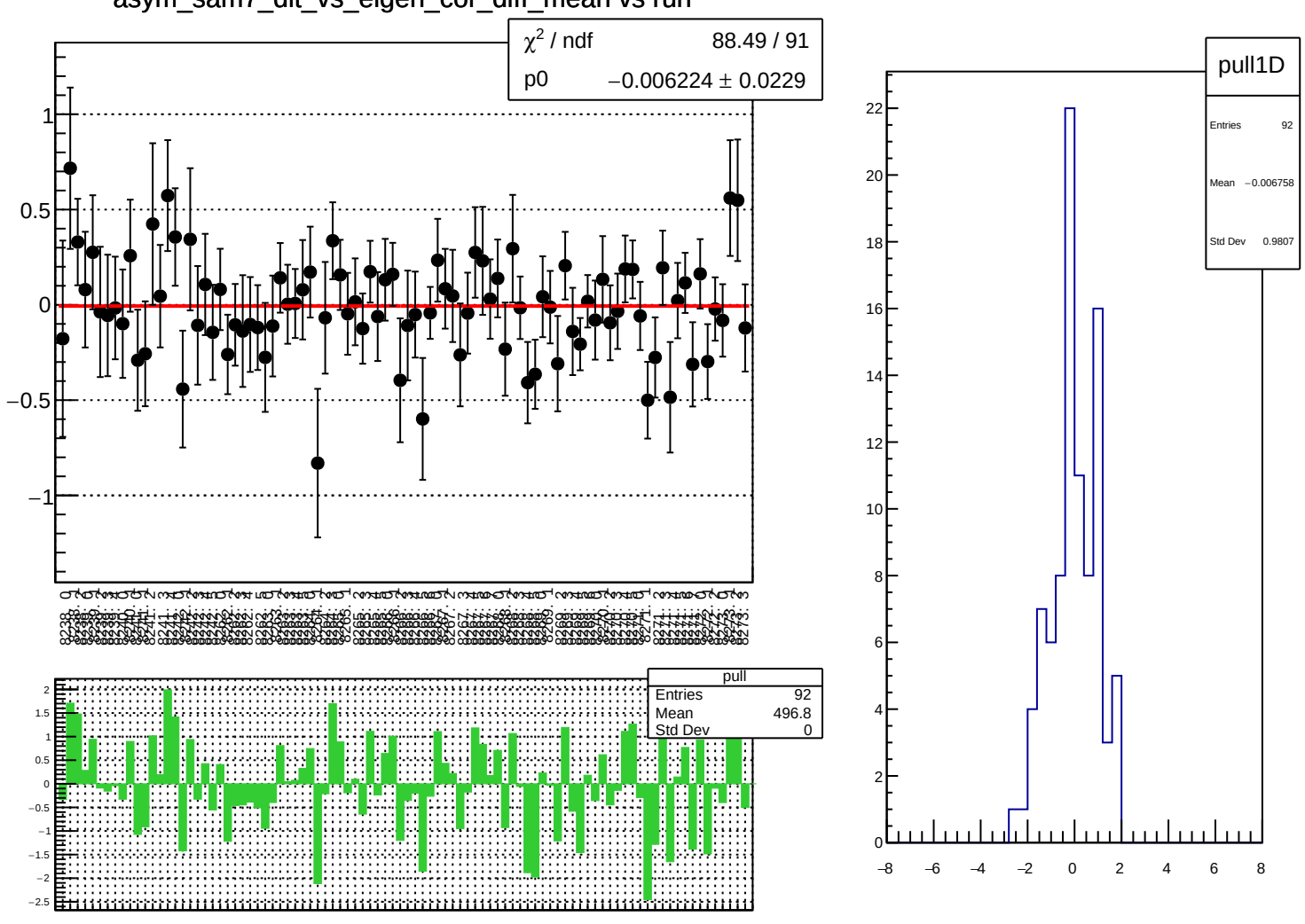

pull1D
Entries 92
Mean 0.04417
Std Dev 0.9911

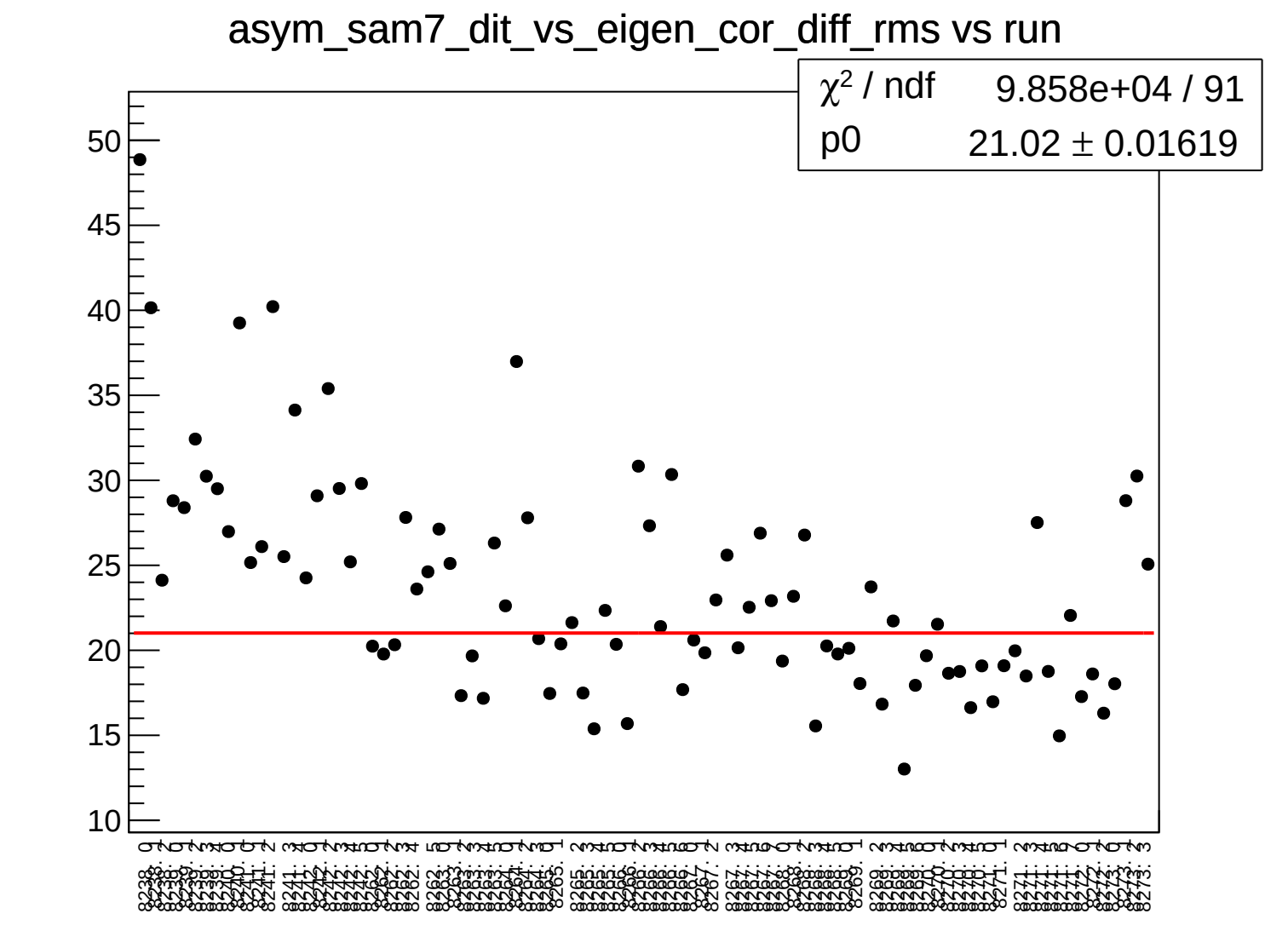

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 8.692e+05 / 91
p0 6.971e−11 ± 7.293e−14
0.05
0.04
0.03
0.02
0.01
0

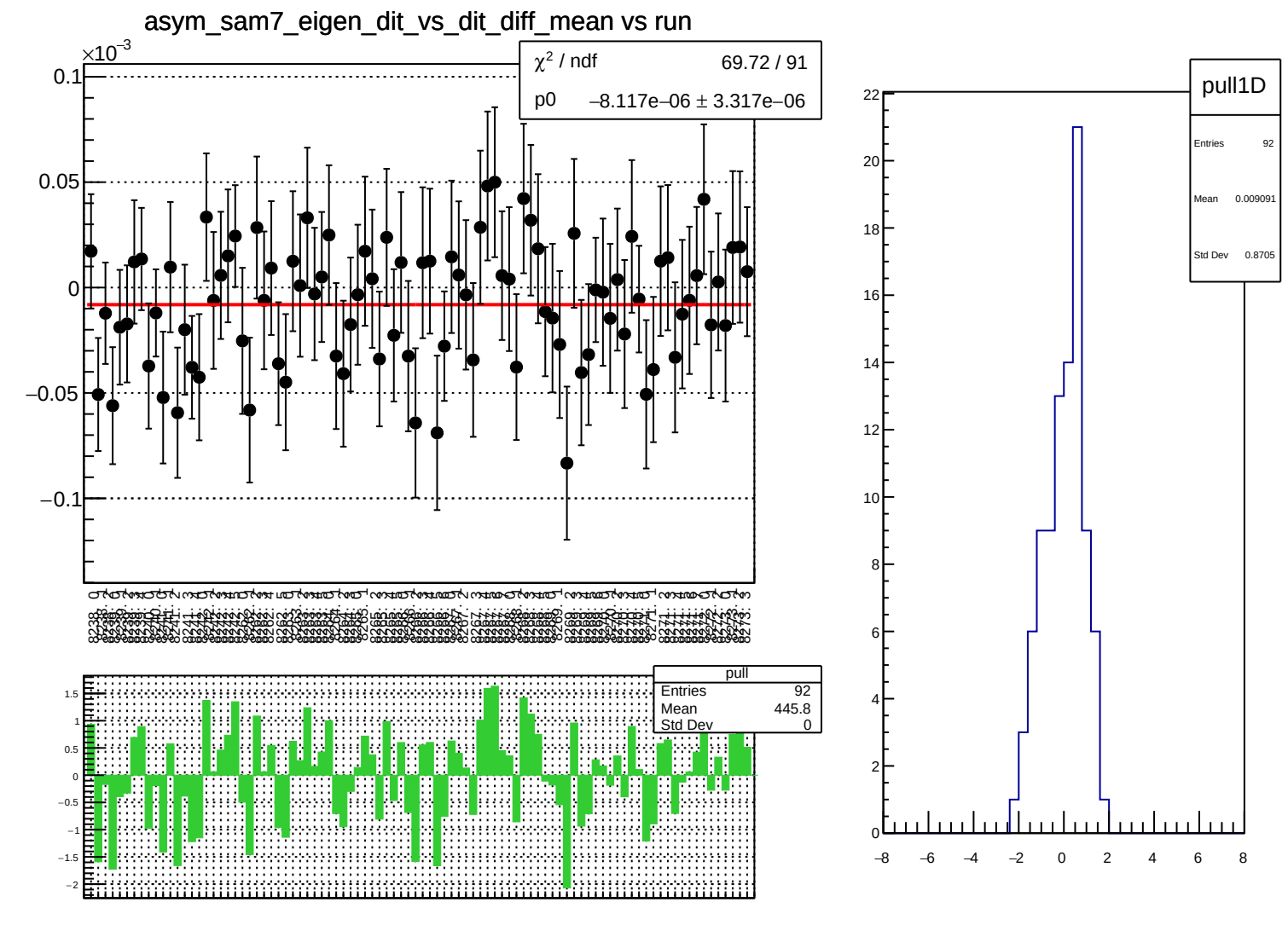

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 88.49 / 91
p0 −0.006224 ± 0.0229
pull
Entries 92
Mean 496.8
Std Dev 0

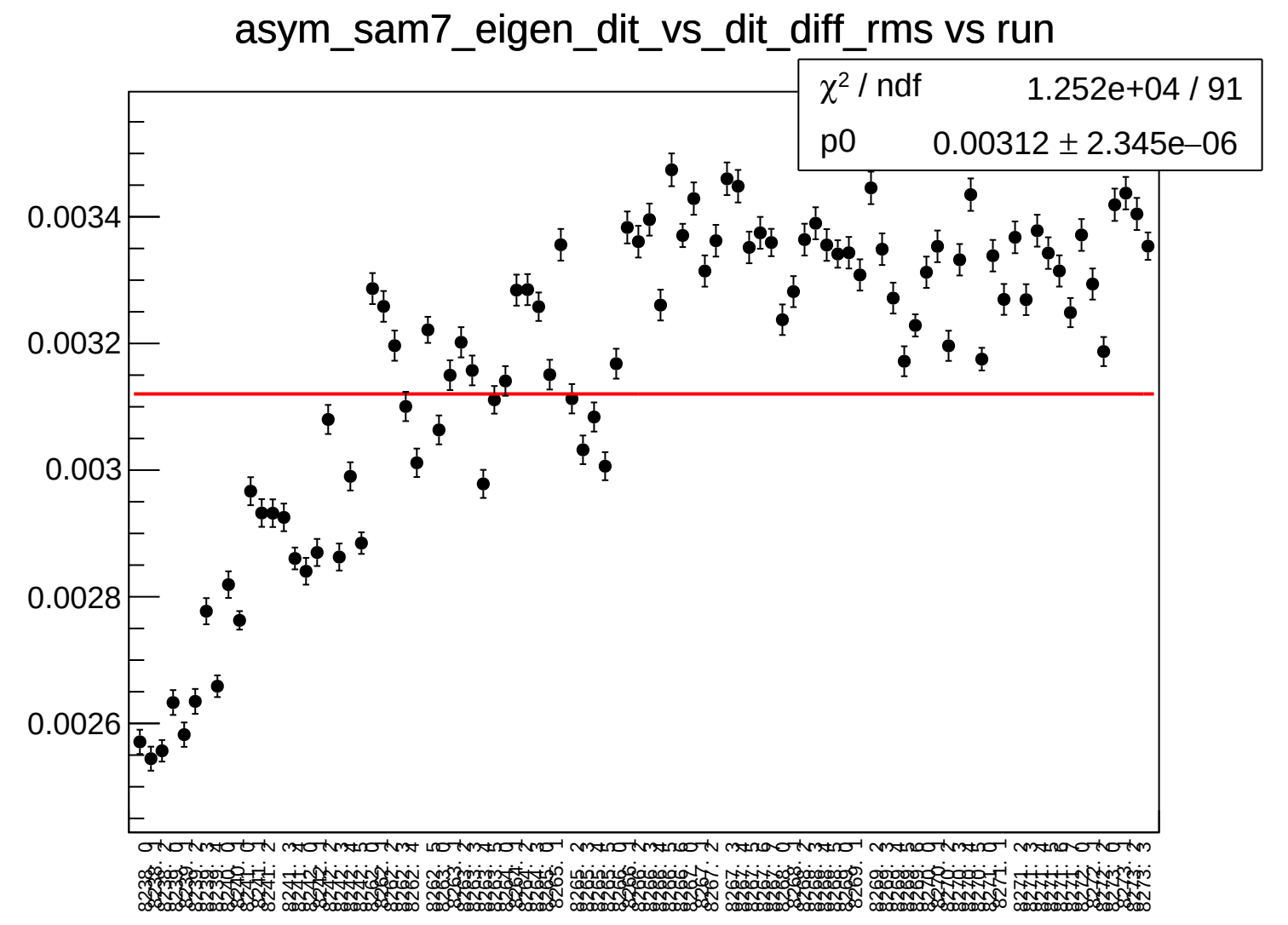

pull1D
Entries 92
Mean −0.006758
Std Dev 0.9807

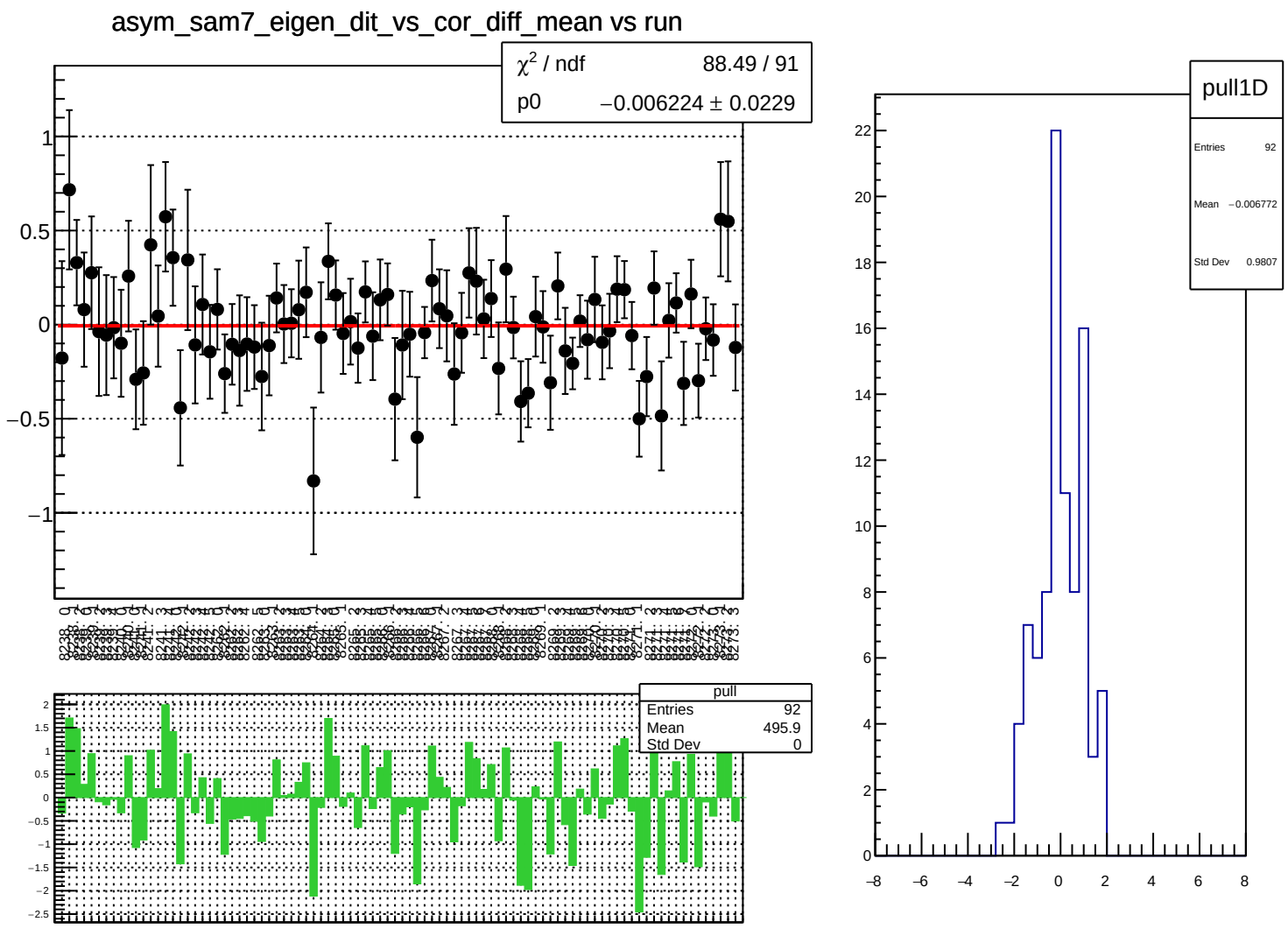

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 9.858e+04 / 91
p0 21.02 ± 0.01619
50
45
40
35
30
25
20
15
10

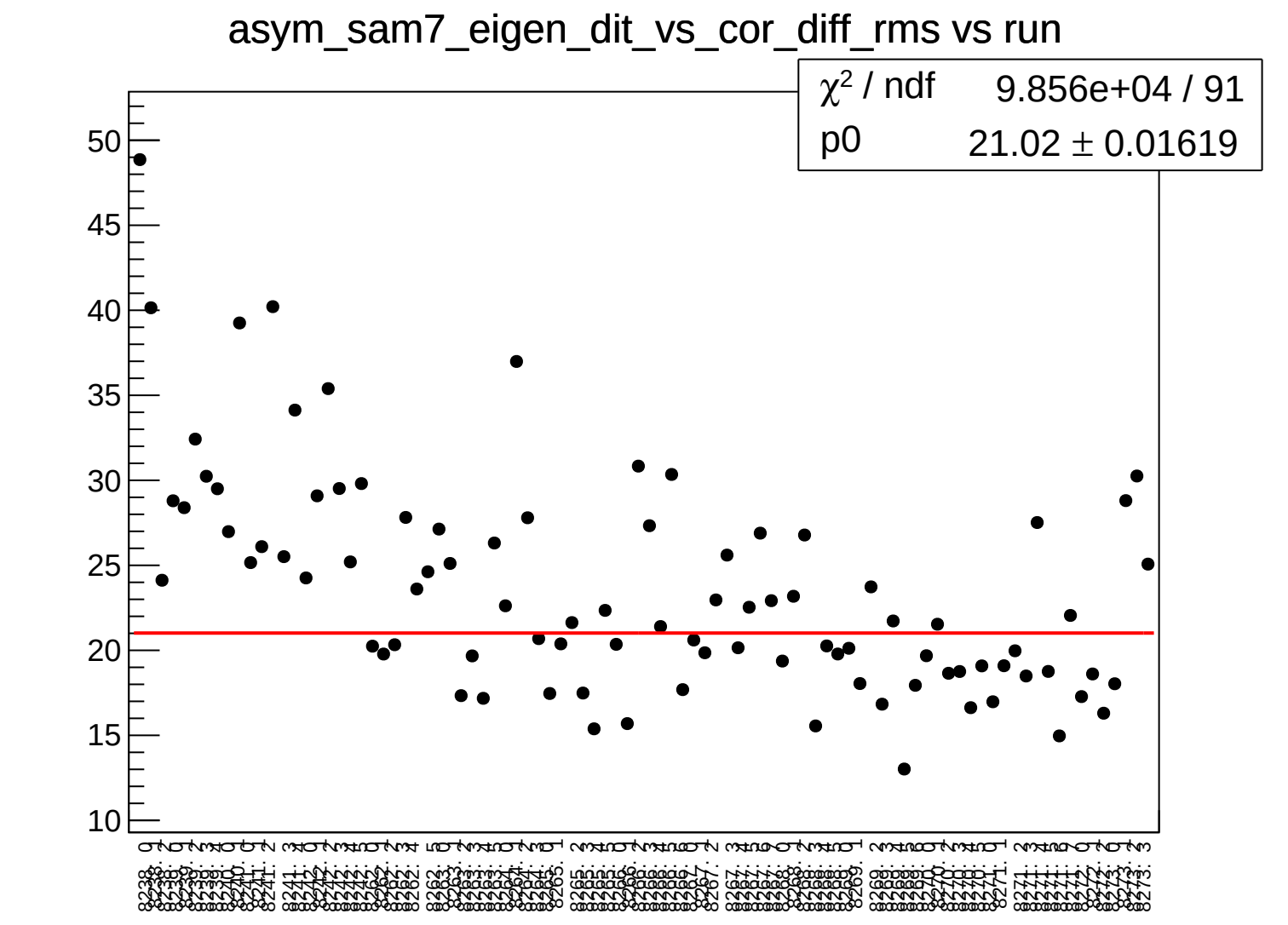

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.49 / 91
p0 −0.006224 ± 0.0229
pull
Entries 92
Mean 496.8
Std Dev 0
pull1D
Entries 92
Mean −0.006758
Std Dev 0.9807

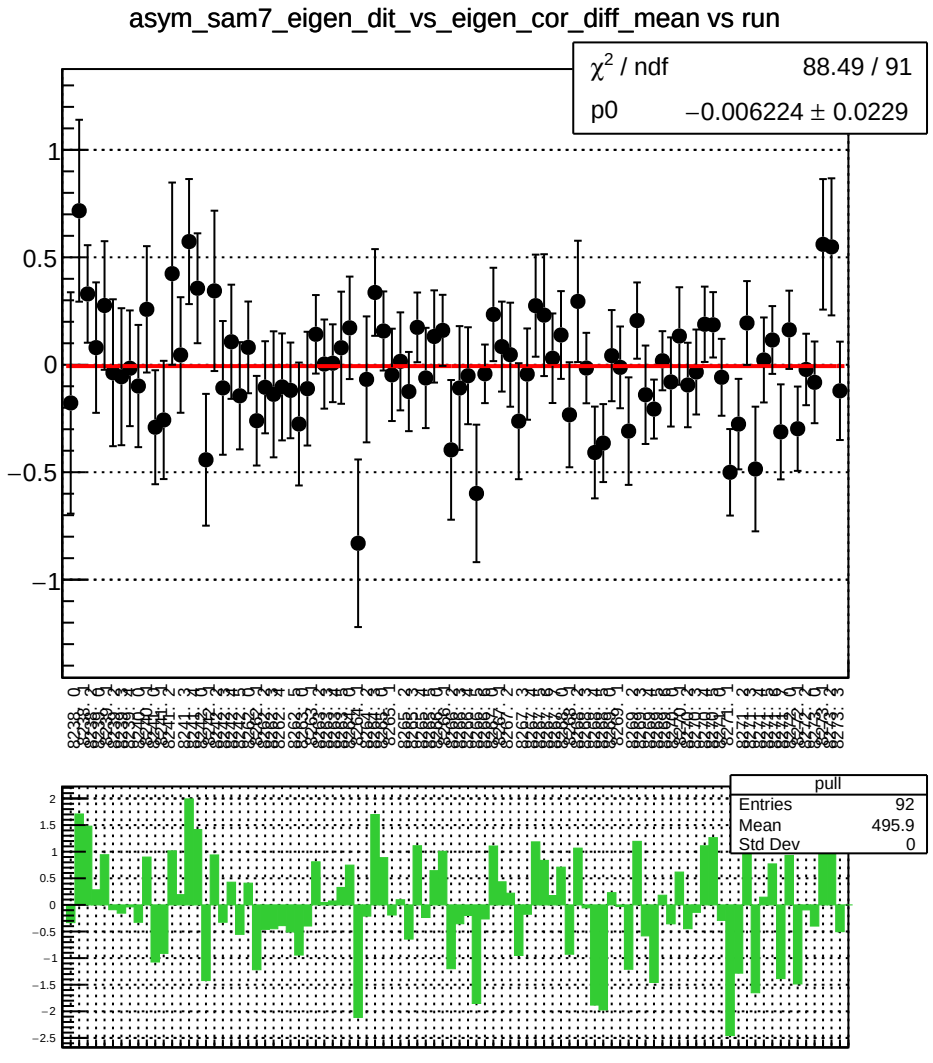

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.858e+04 / 91
p0 21.02 ± 0.01619
50
45
40
35
30
25
20
15
10

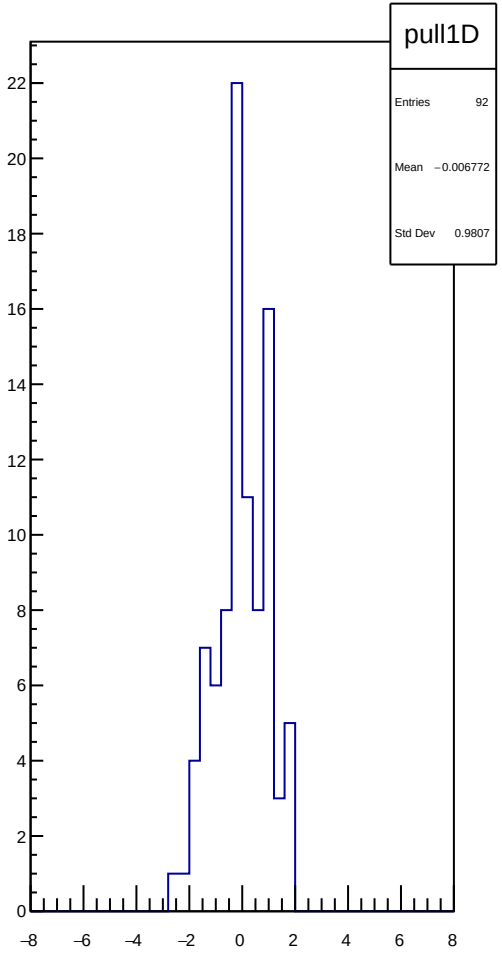

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 69.72 / 91
p0 −8.117e−06 ± 3.317e−06
pull
Entries 92
Mean 445.8
Std Dev 0
pull1D
Entries 92
Mean 0.009091
Std Dev 0.8705

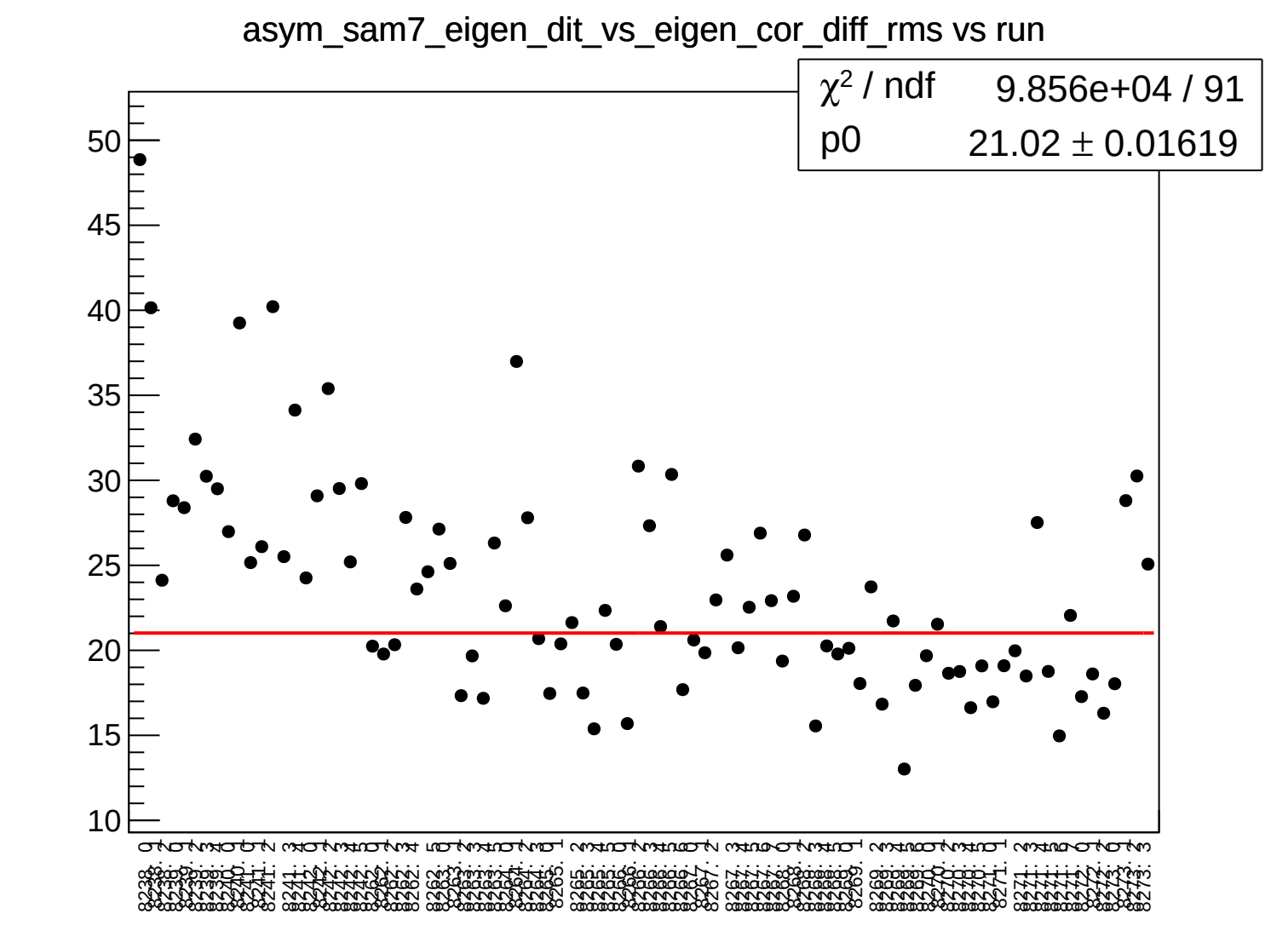

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.252e+04 / 91
p0 0.00312 ± 2.345e−06
0.0034
0.0032
0.003
0.0028
0.0026

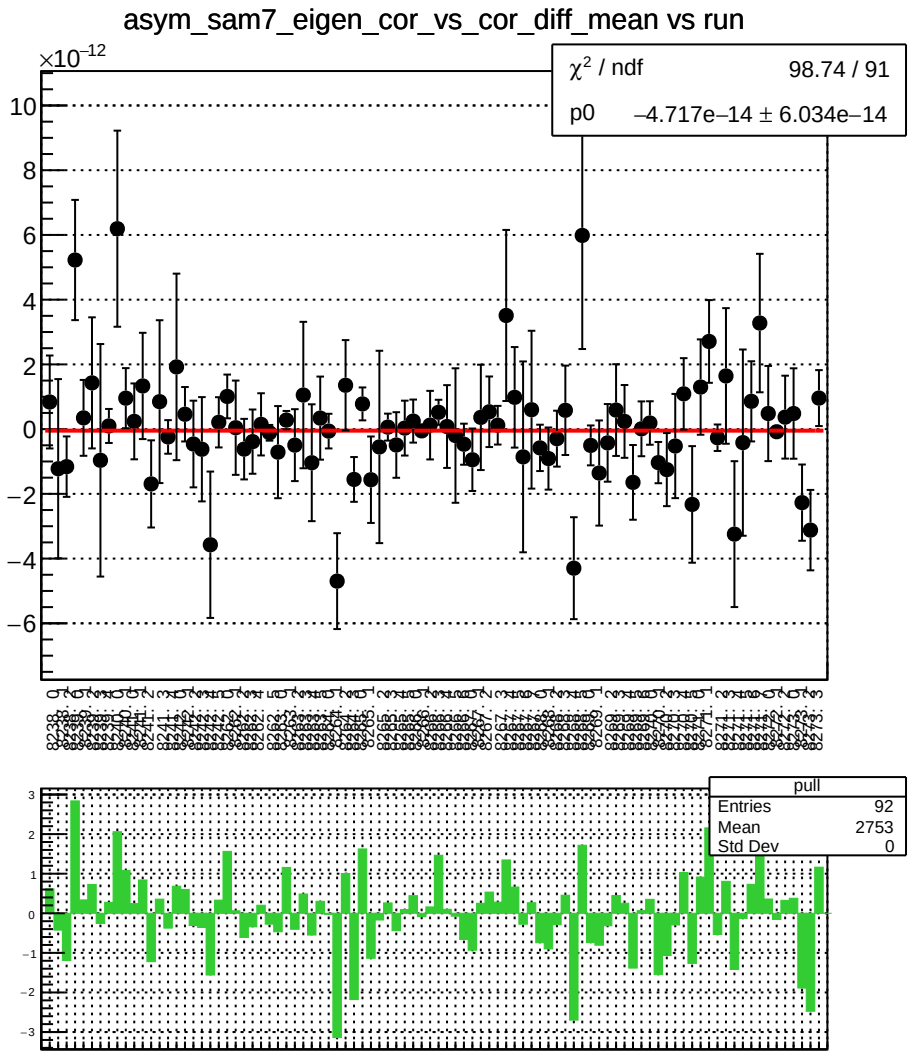

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.49 / 91
p0 −0.006224 ± 0.0229
pull
Entries 92
Mean 495.9
Std Dev 0
pull1D
Entries 92
Mean −0.006772
Std Dev 0.9807

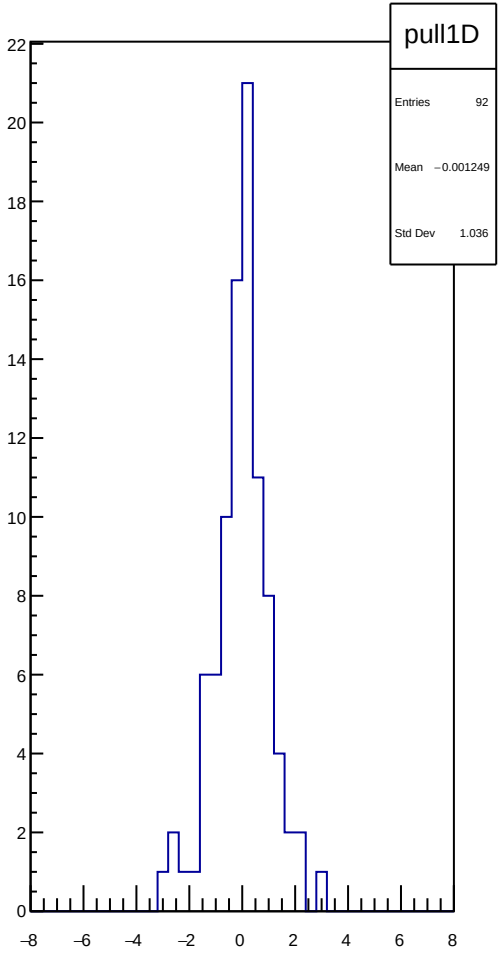

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.856e+04 / 91
p0 21.02 ± 0.01619
50
45
40
35
30
25
20
15
10

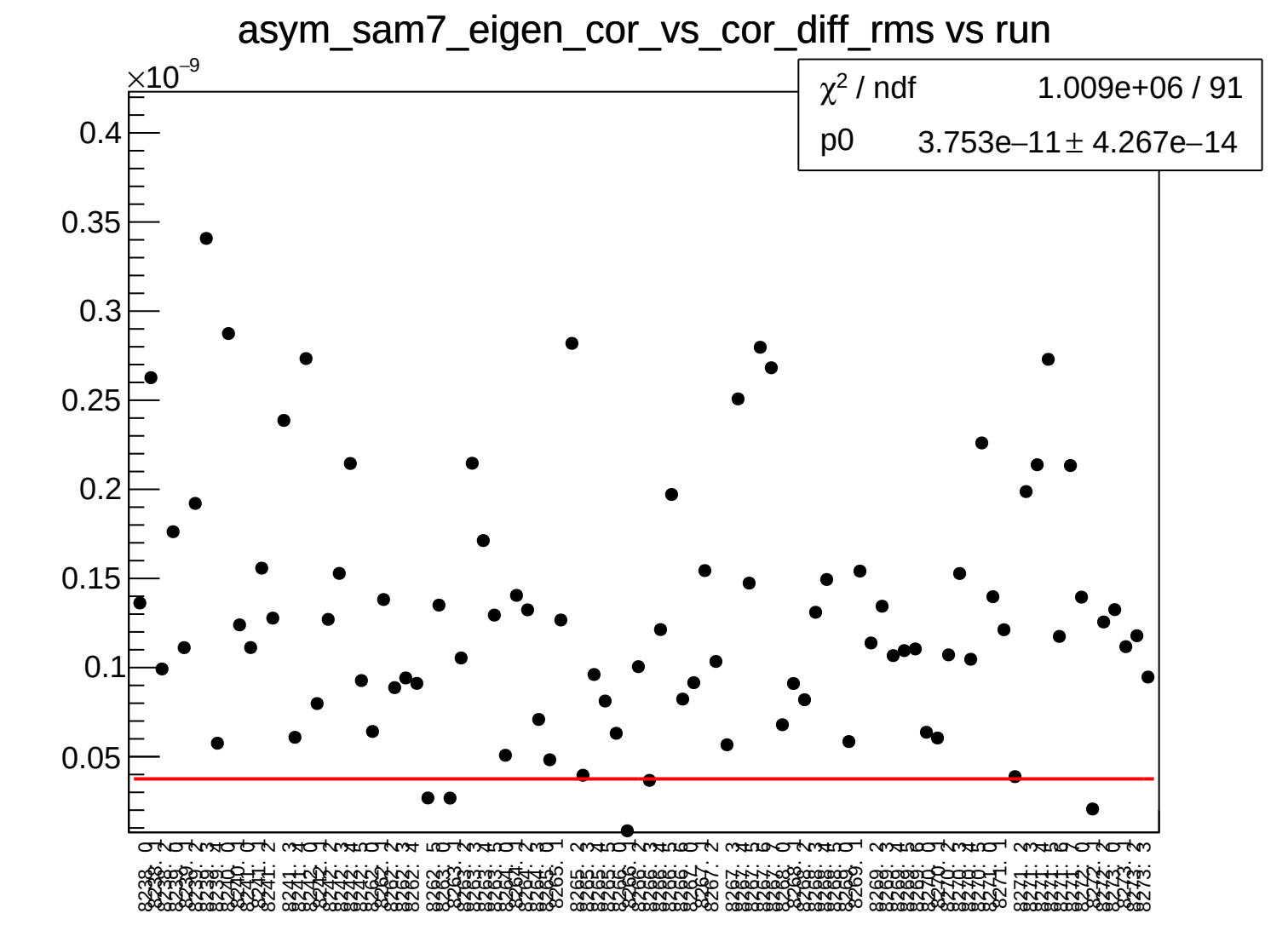

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.49 / 91
p0 −0.006224 ± 0.0229
pull
Entries 92
Mean 495.9
Std Dev 0

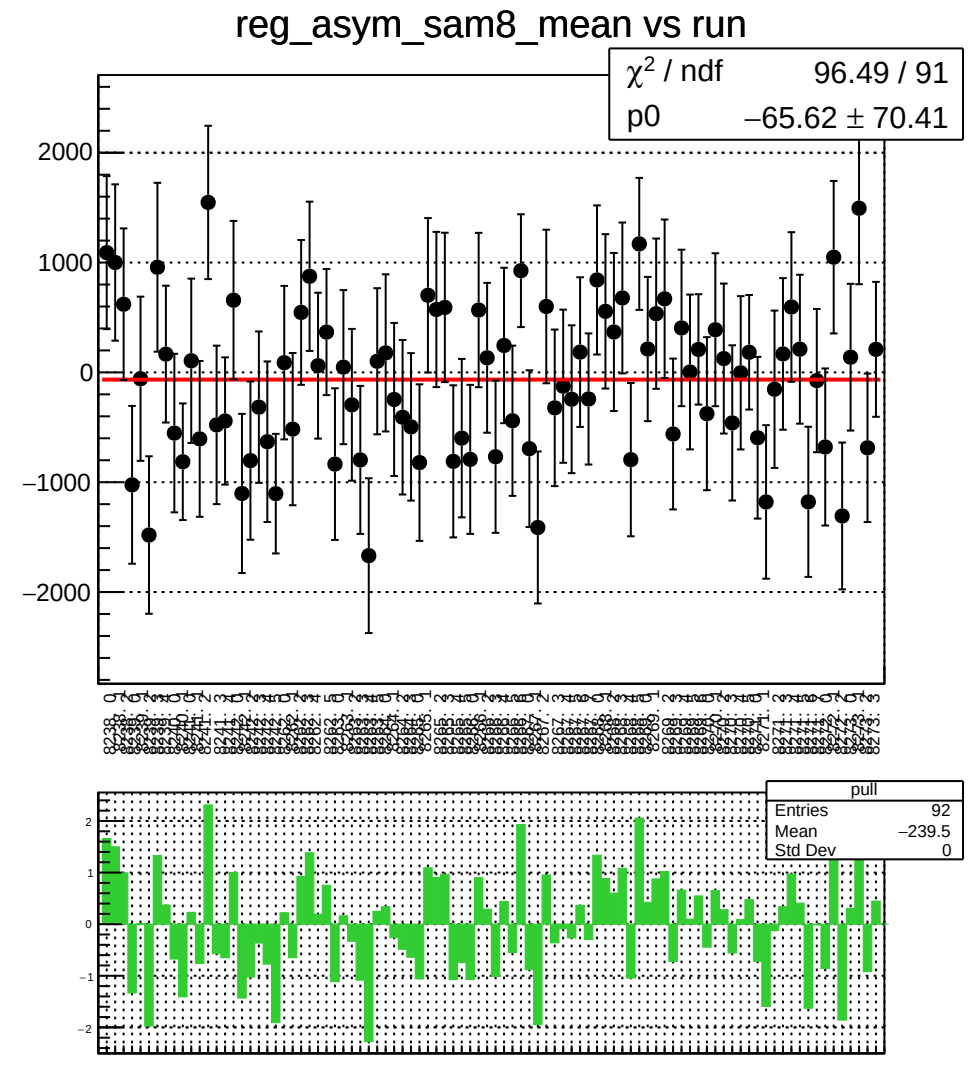

pull1D
Entries 92
Mean −0.006772
Std Dev 0.9807

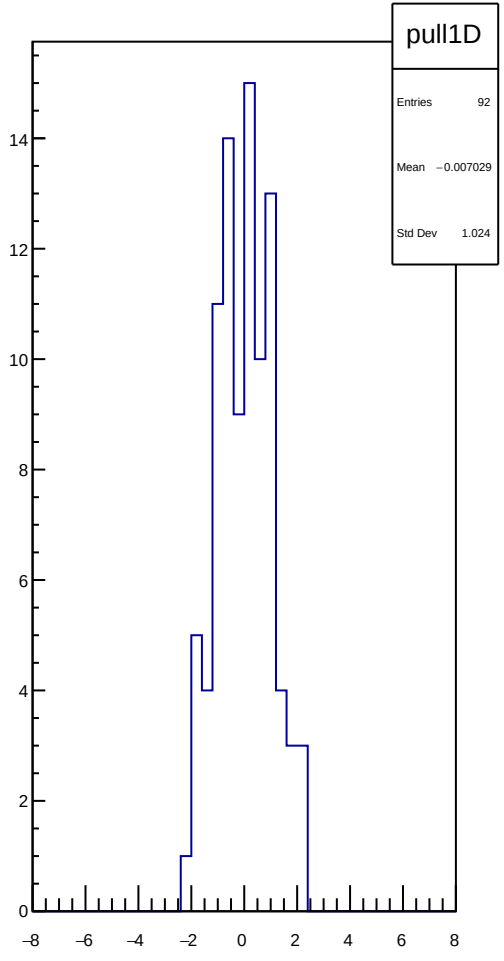

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.856e+04 / 91
p0 21.02 ± 0.01619
50
45
40
35
30
25
20
15
10

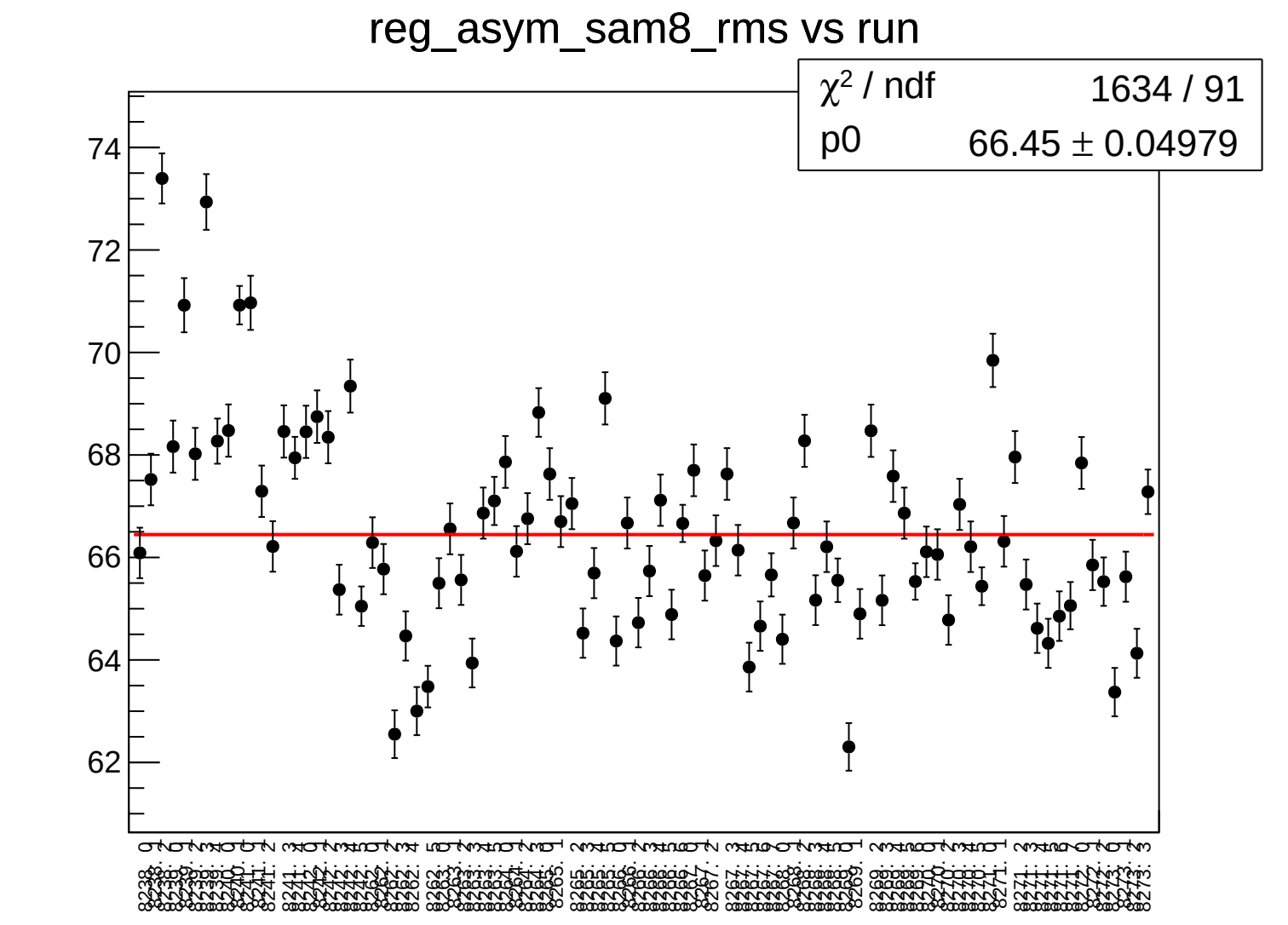

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.74 / 91
p0 −4.717e−14 ± 6.034e−14
pull
Entries 92
Mean 2753
Std Dev 0

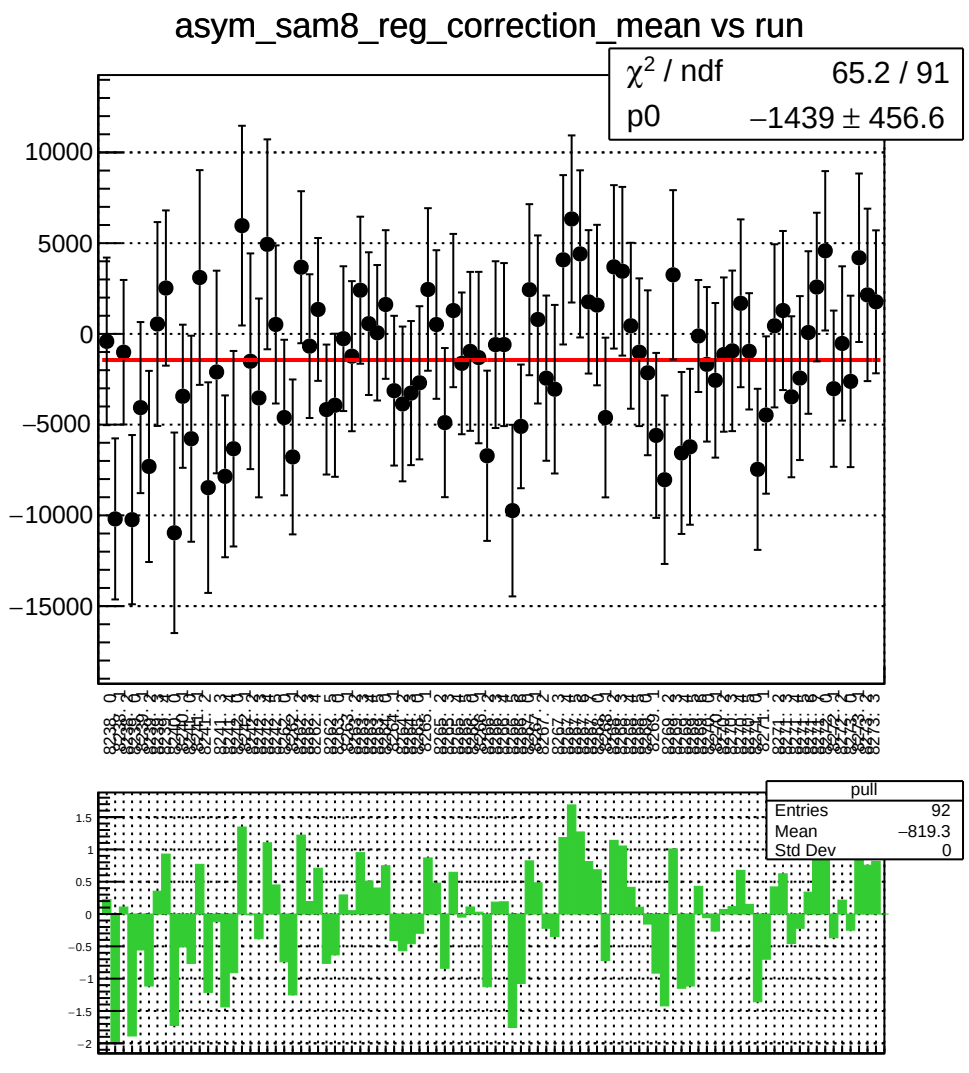

pull1D
Entries 92
Mean −0.001249
Std Dev 1.036

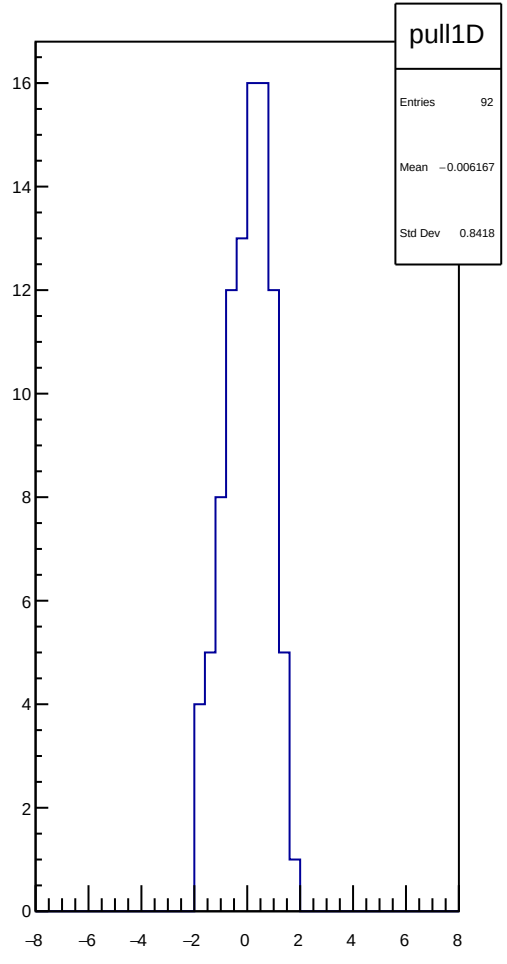

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.009e+06 / 91
p0 3.753e−11 ± 4.267e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

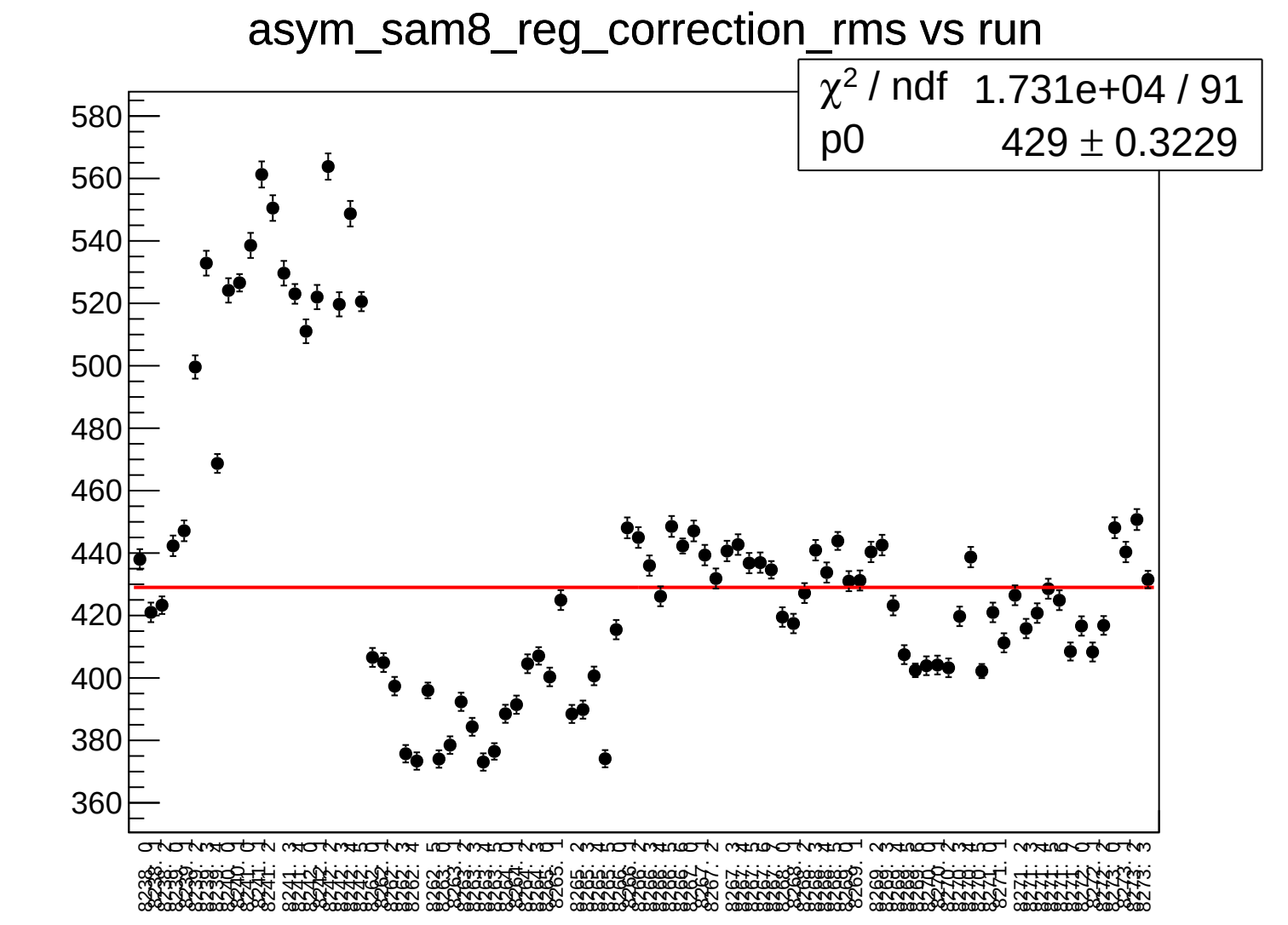

reg_asym_sam8_mean vs run
χ² / ndf 96.49 / 91
p0 −65.62 ± 70.41
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −239.5
Std Dev 0
2
1
0
−1
−2

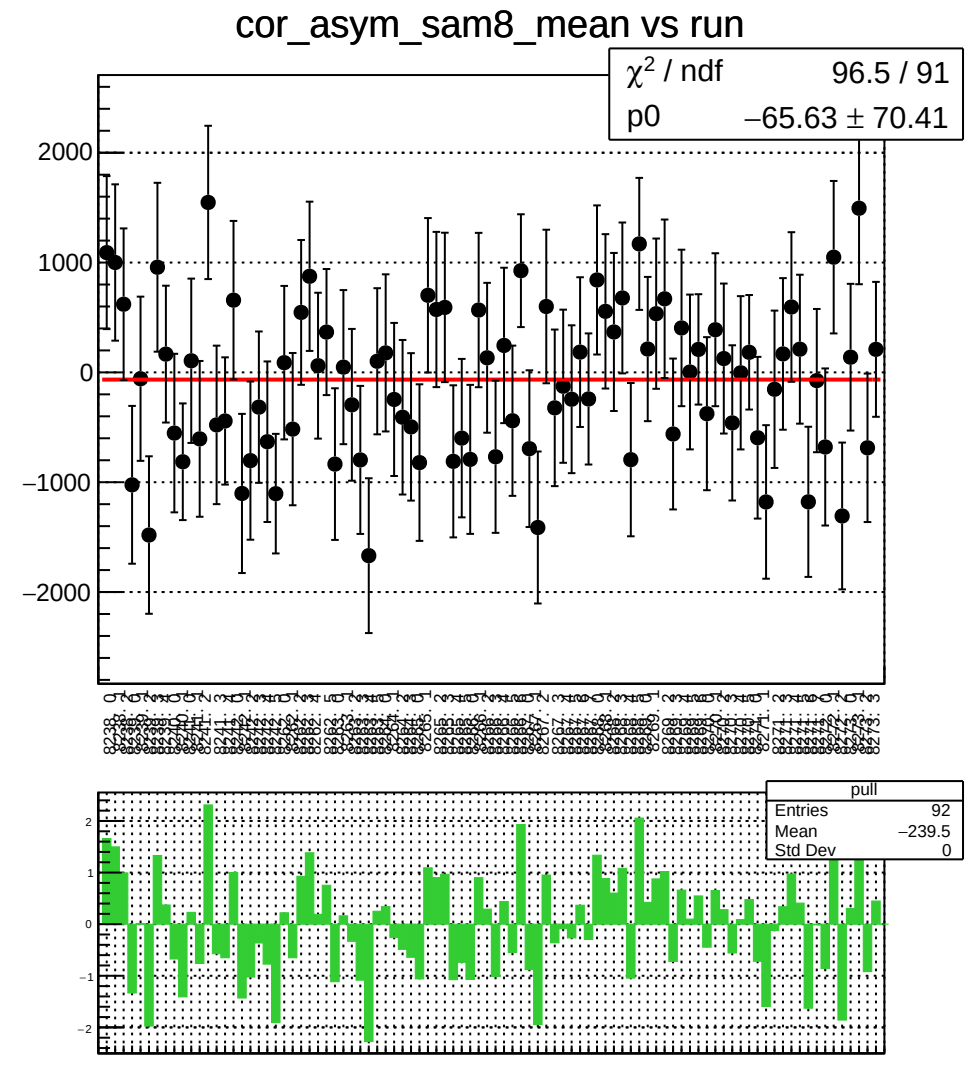

pull1D
Entries 92
Mean −0.007029
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

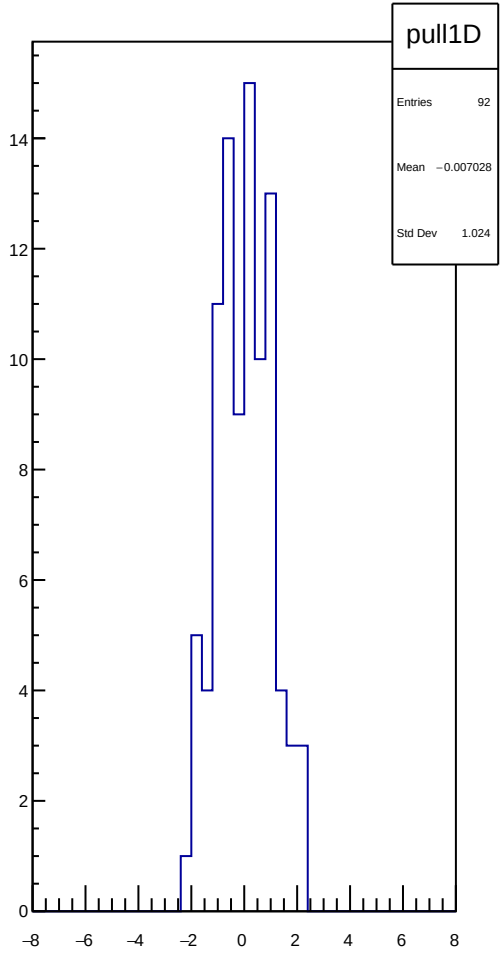

reg_asym_sam8_rms vs run
$\chi^2$ / ndf 1634 / 91
p0 66.45 ± 0.04979
74
72
70
68
66
64
62

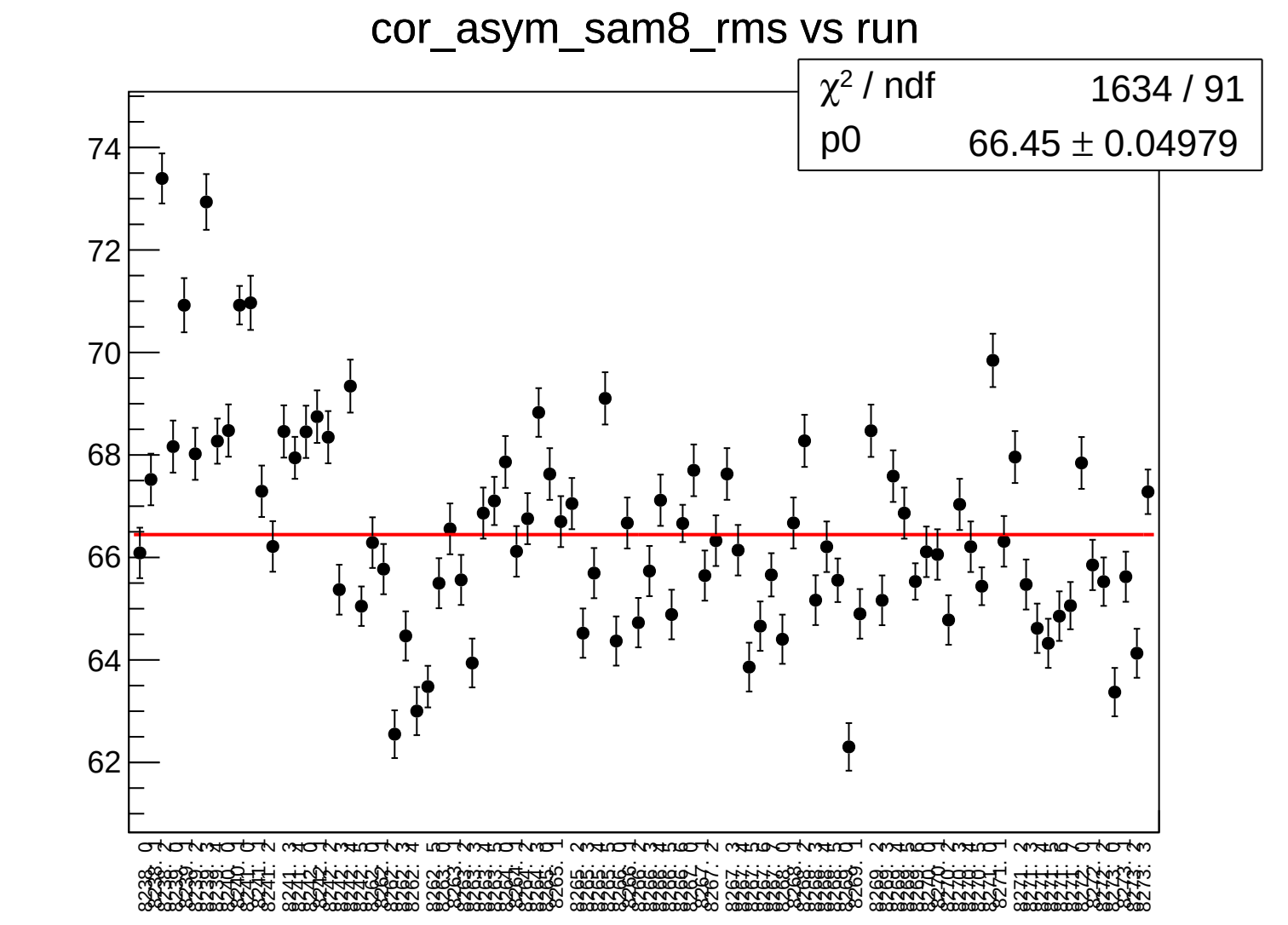

asym_sam8_reg_correction_mean vs run
χ² / ndf 65.2 / 91
p0 −1439 ± 456.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −819.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

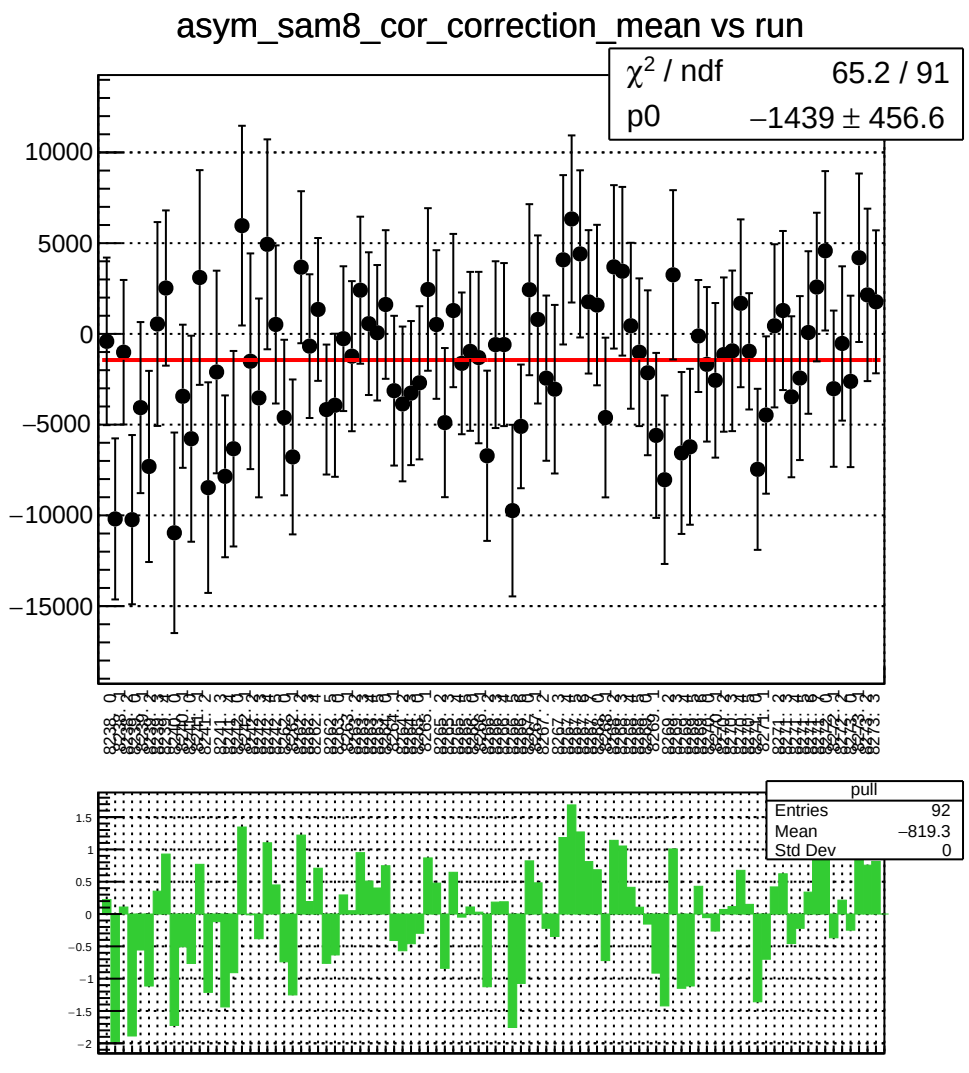

pull1D
Entries 92
Mean −0.006167
Std Dev 0.8418
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

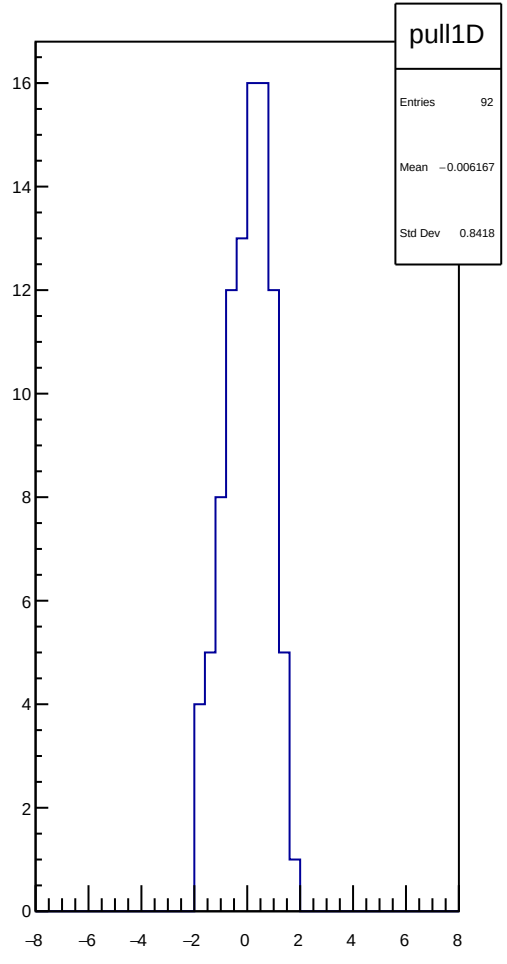

asym_sam8_reg_correction_rms vs run
χ² / ndf 1.731e+04 / 91
p0 429 ± 0.3229
580
560
540
520
500
480
460
440
420
400
380
360

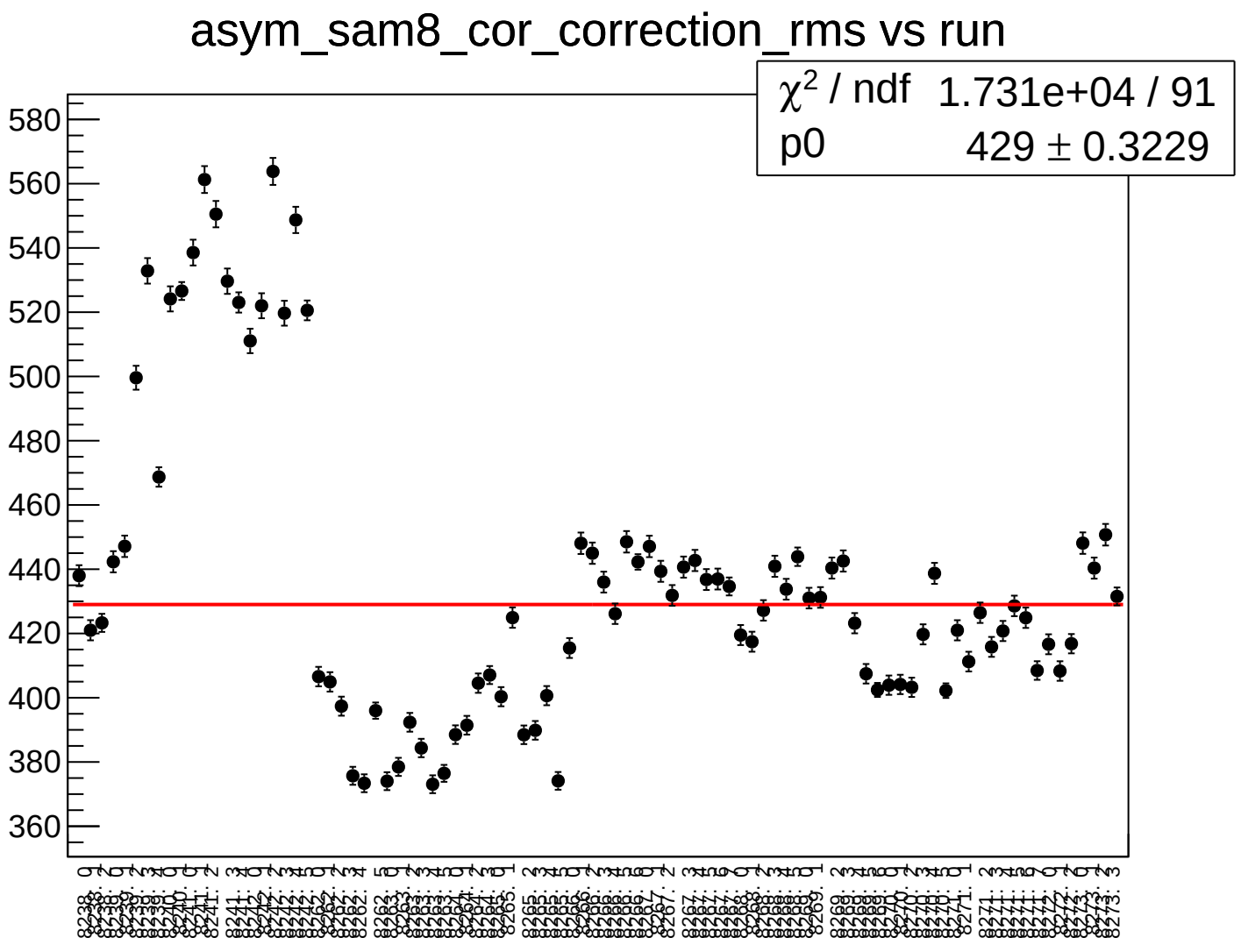

cor_asym_sam8_mean vs run
χ² / ndf 96.5 / 91
p0 −65.63 ± 70.41
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −239.5
Std Dev 0
2
1
0
−1
−2

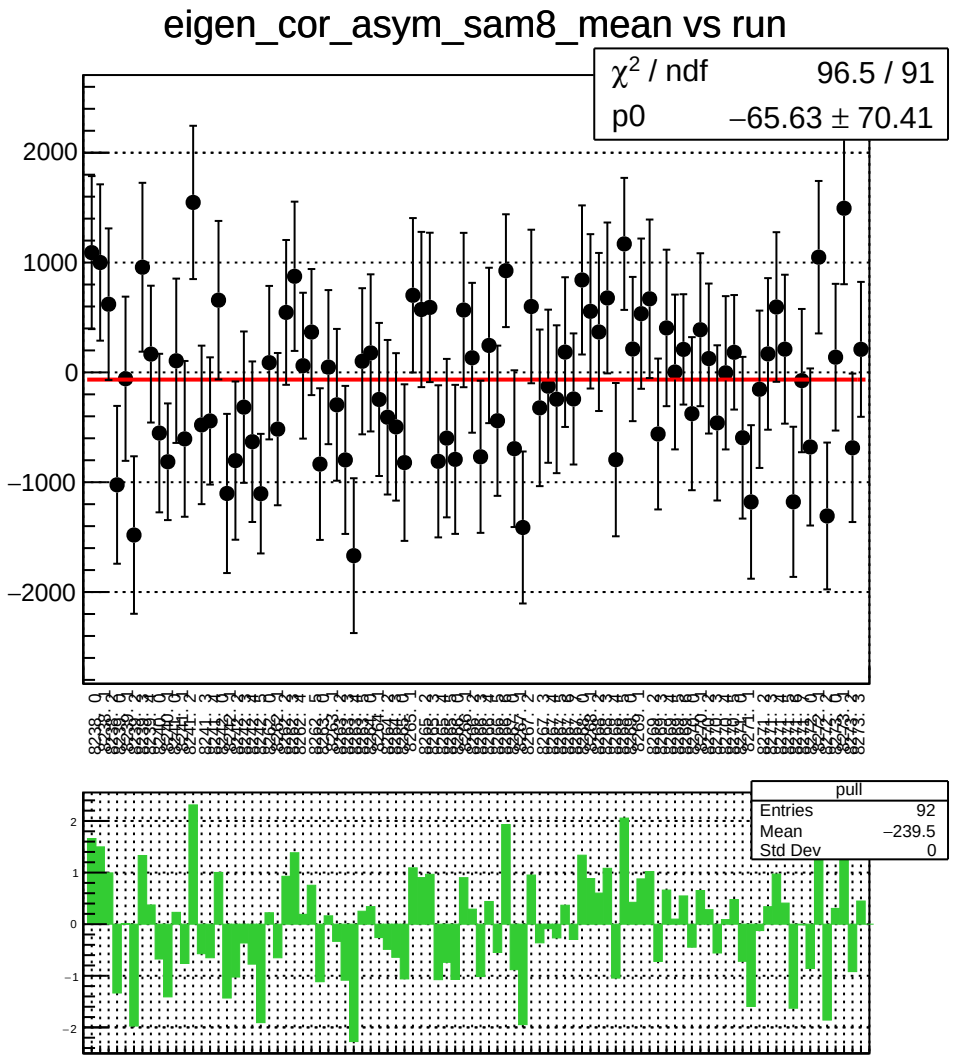

pull1D
Entries 92
Mean −0.007028
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

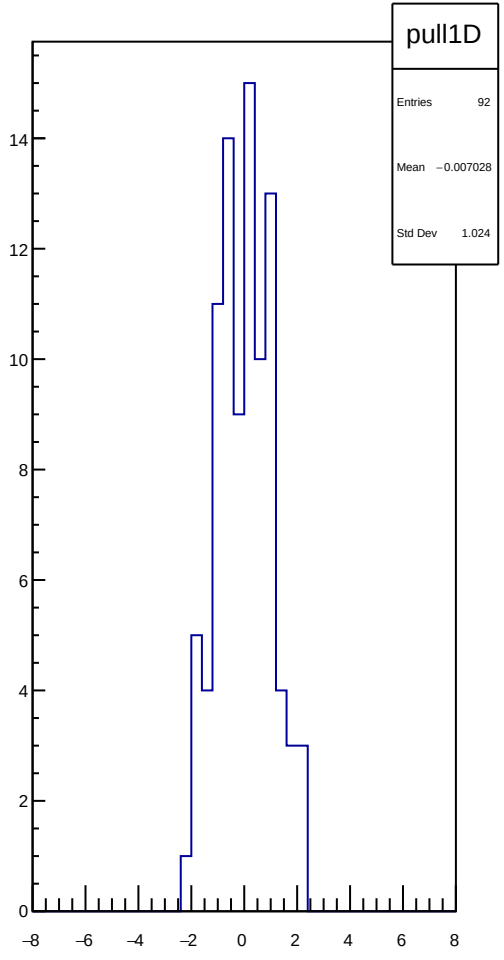

cor_asym_sam8_rms vs run
χ² / ndf 1634 / 91
p0 66.45 ± 0.04979
74
72
70
68
66
64
62

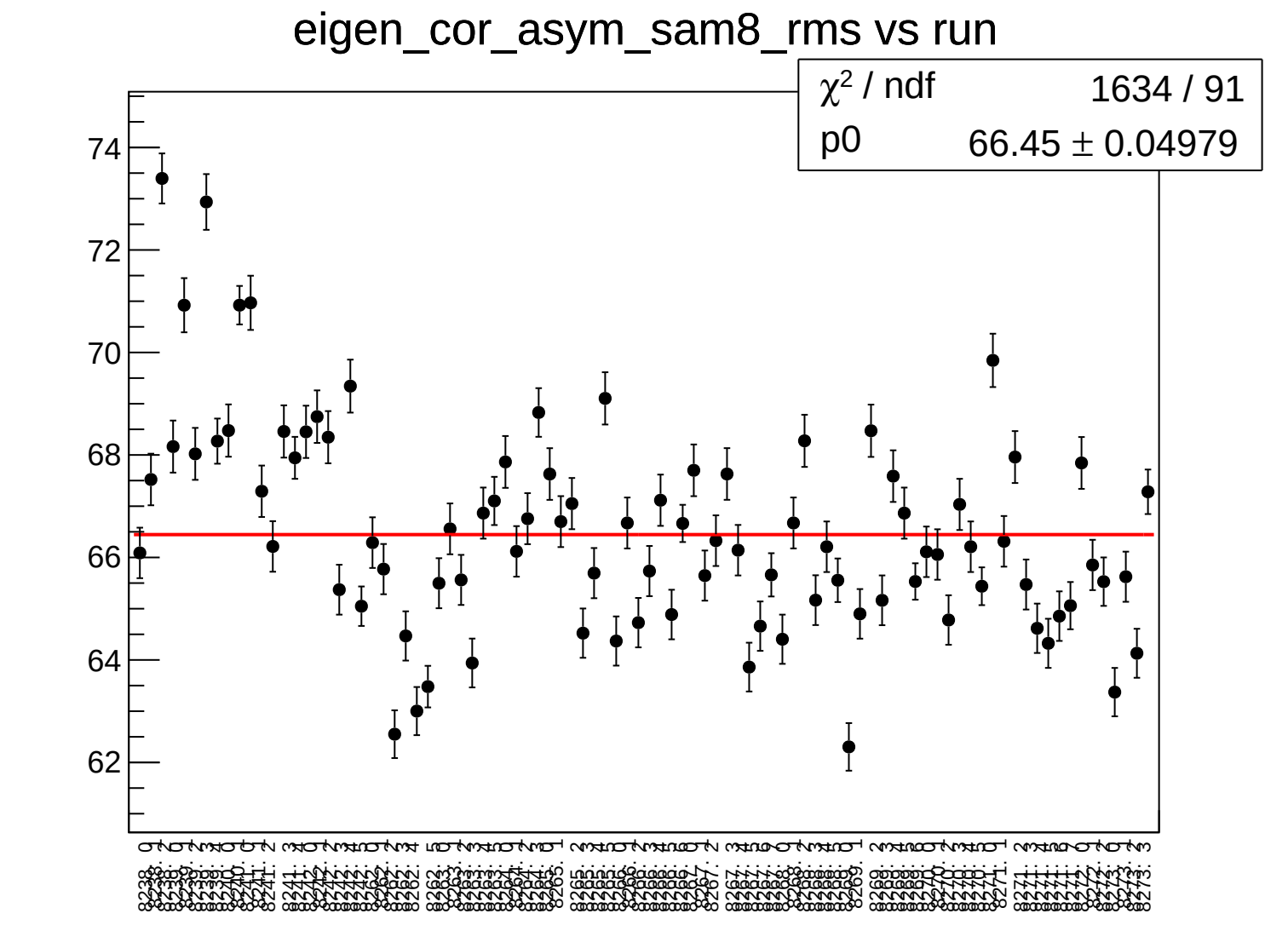

asym_sam8_cor_correction_mean vs run
χ² / ndf 65.2 / 91
p0 −1439 ± 456.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −819.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

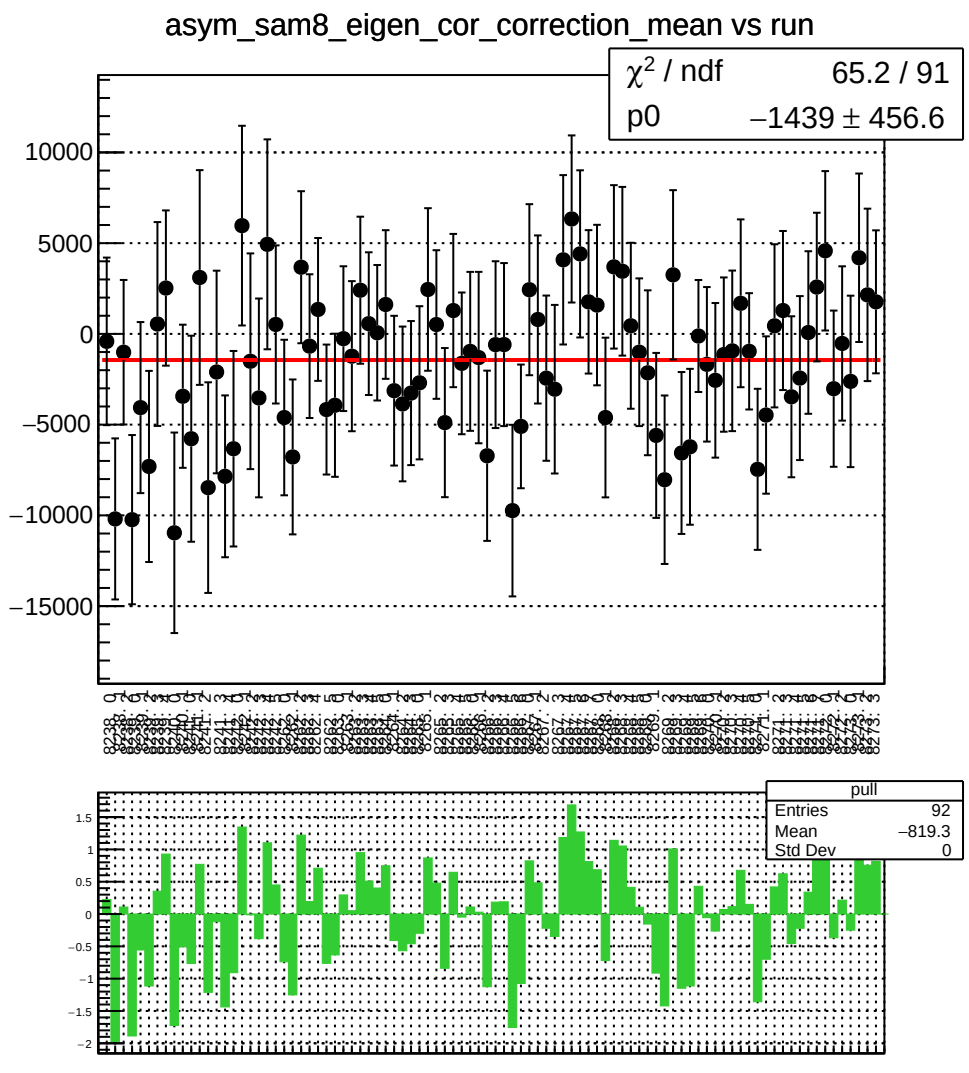

pull1D
Entries 92
Mean −0.006167
Std Dev 0.8418
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

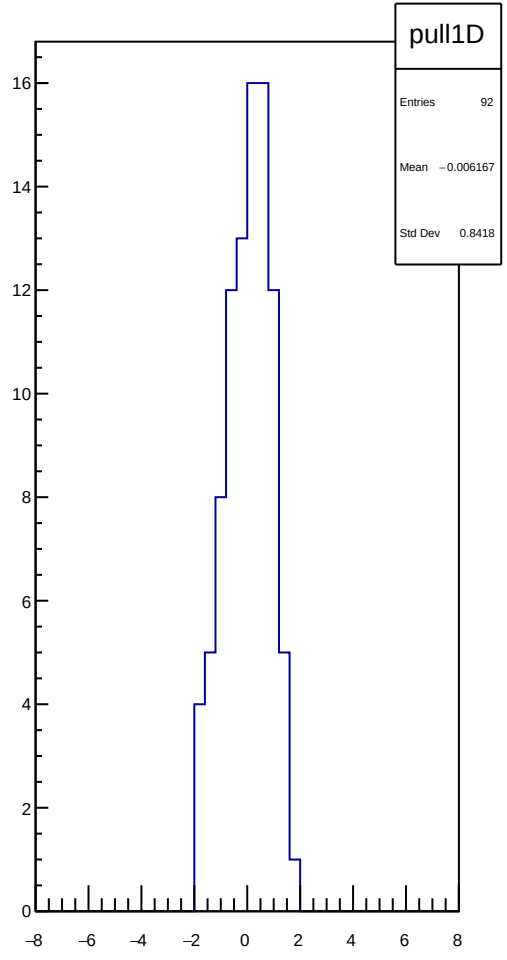

asym_sam8_cor_correction_rms vs run
χ² / ndf 1.731e+04 / 91
p0 429 ± 0.3229
580
560
540
520
500
480
460
440
420
400
380
360

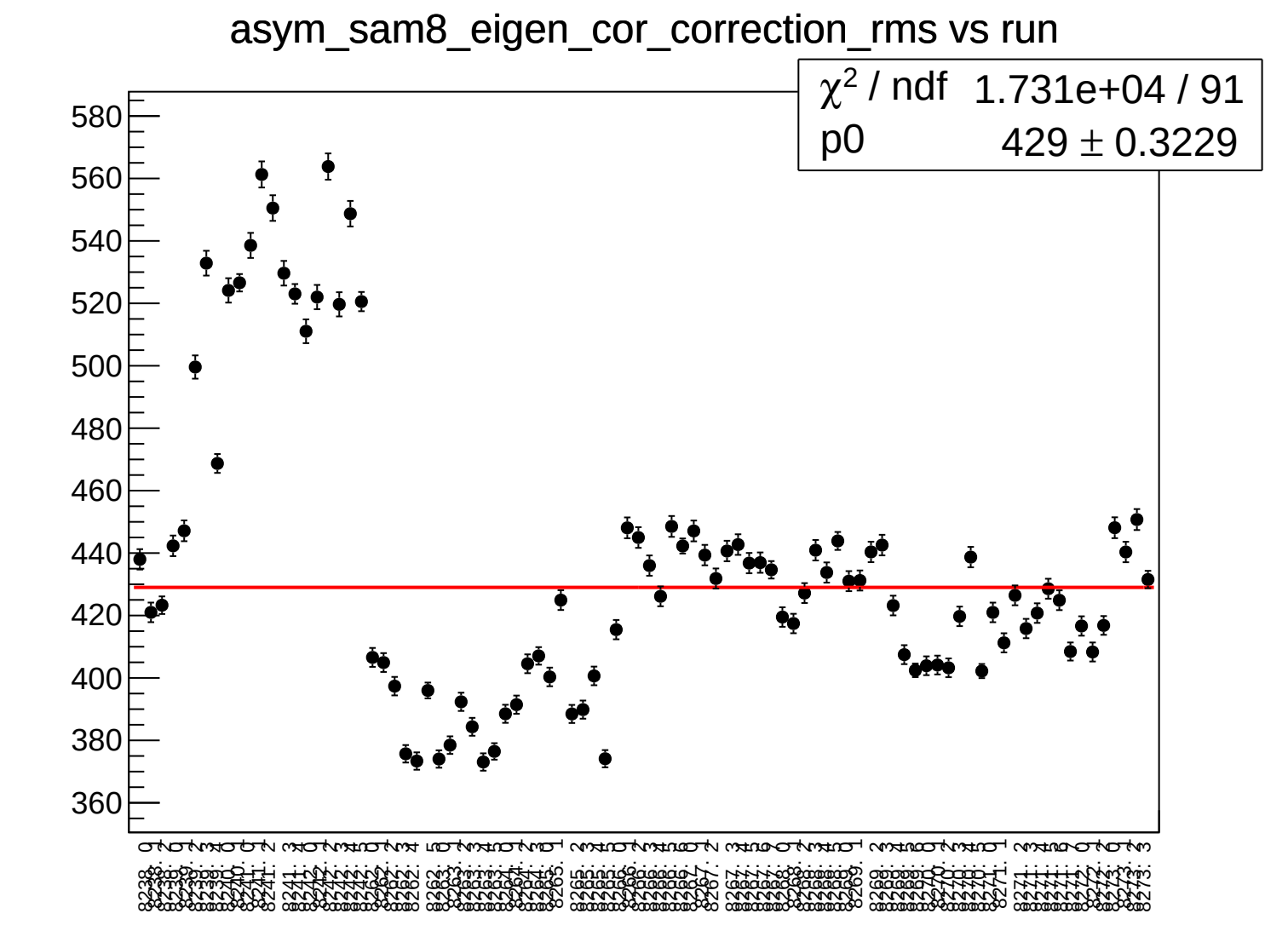

eigen_cor_asym_sam8_mean vs run
χ² / ndf 96.5 / 91
p0 −65.63 ± 70.41
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −239.5
Std Dev 0
2
1
0
−1
−2

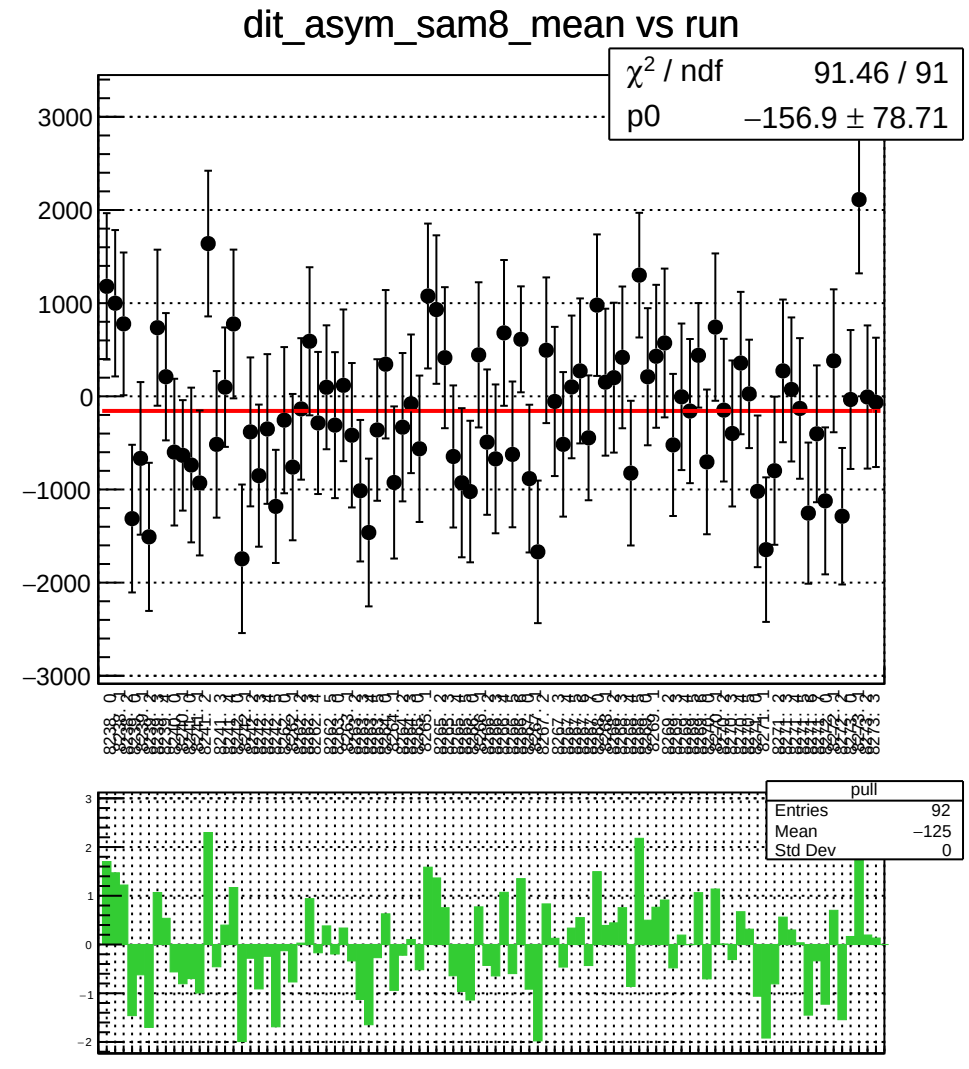

pull1D
Entries 92
Mean −0.007028
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

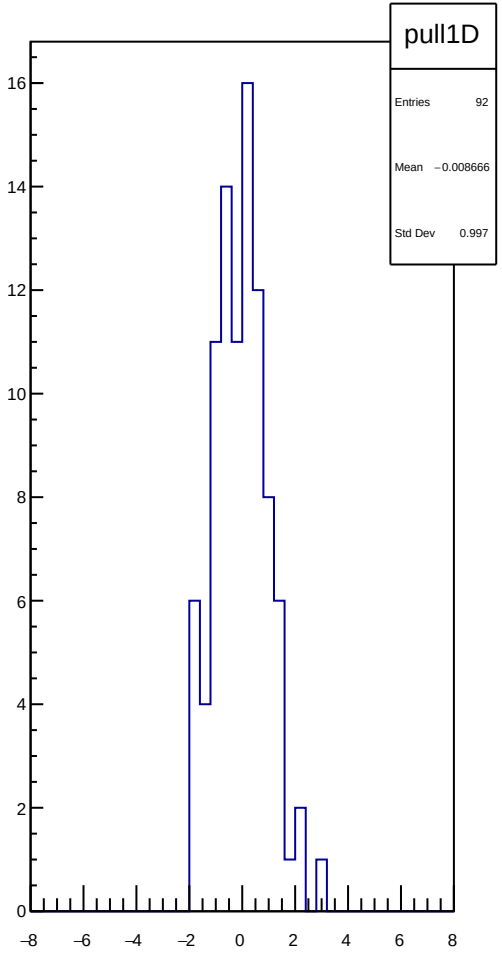

eigen_cor_asym_sam8_rms vs run
$\chi^2$ / ndf 1634 / 91
p0 66.45 ± 0.04979
74
72
70
68
66
64
62

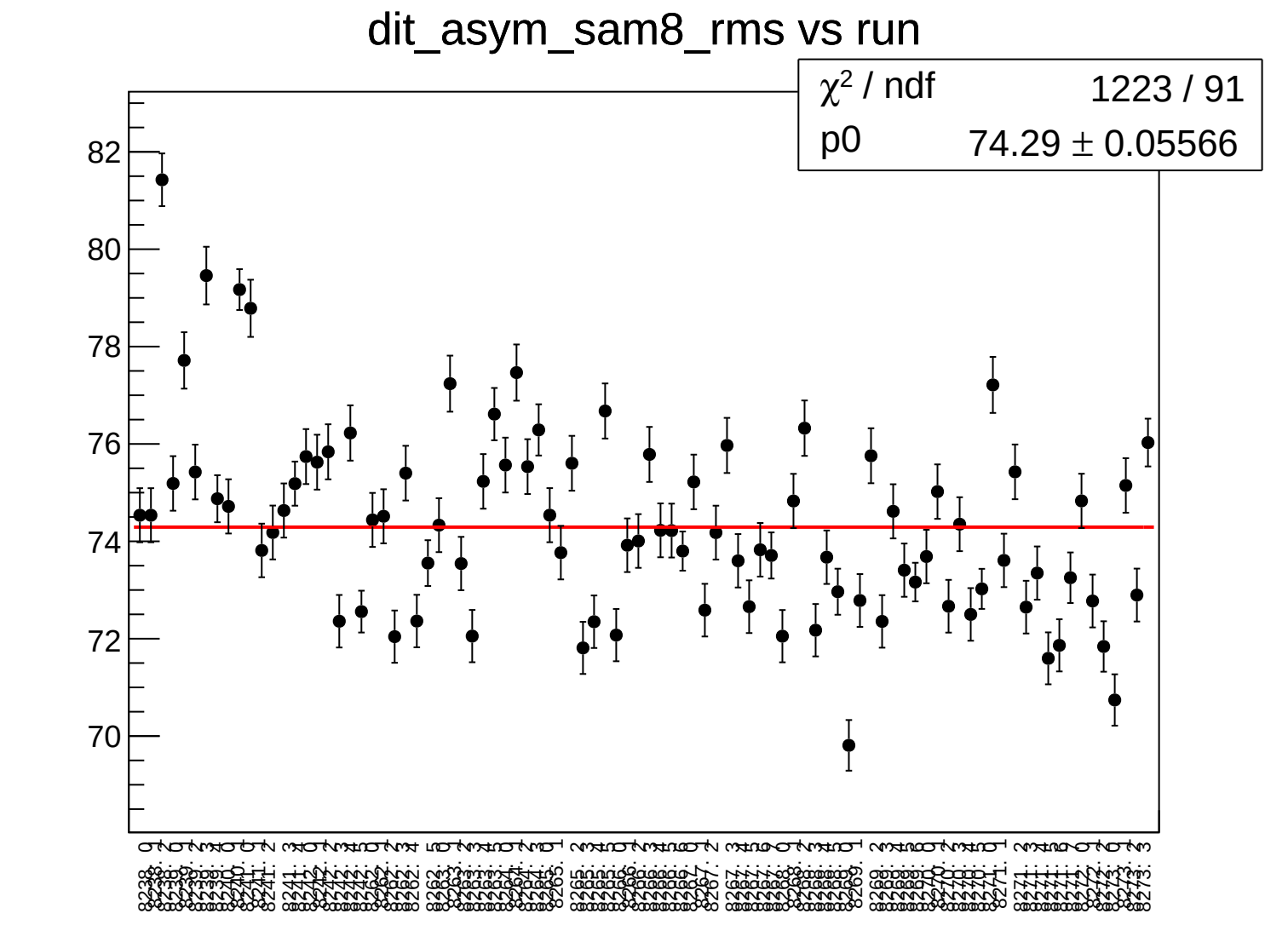

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 65.2 / 91
p0 −1439 ± 456.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −819.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

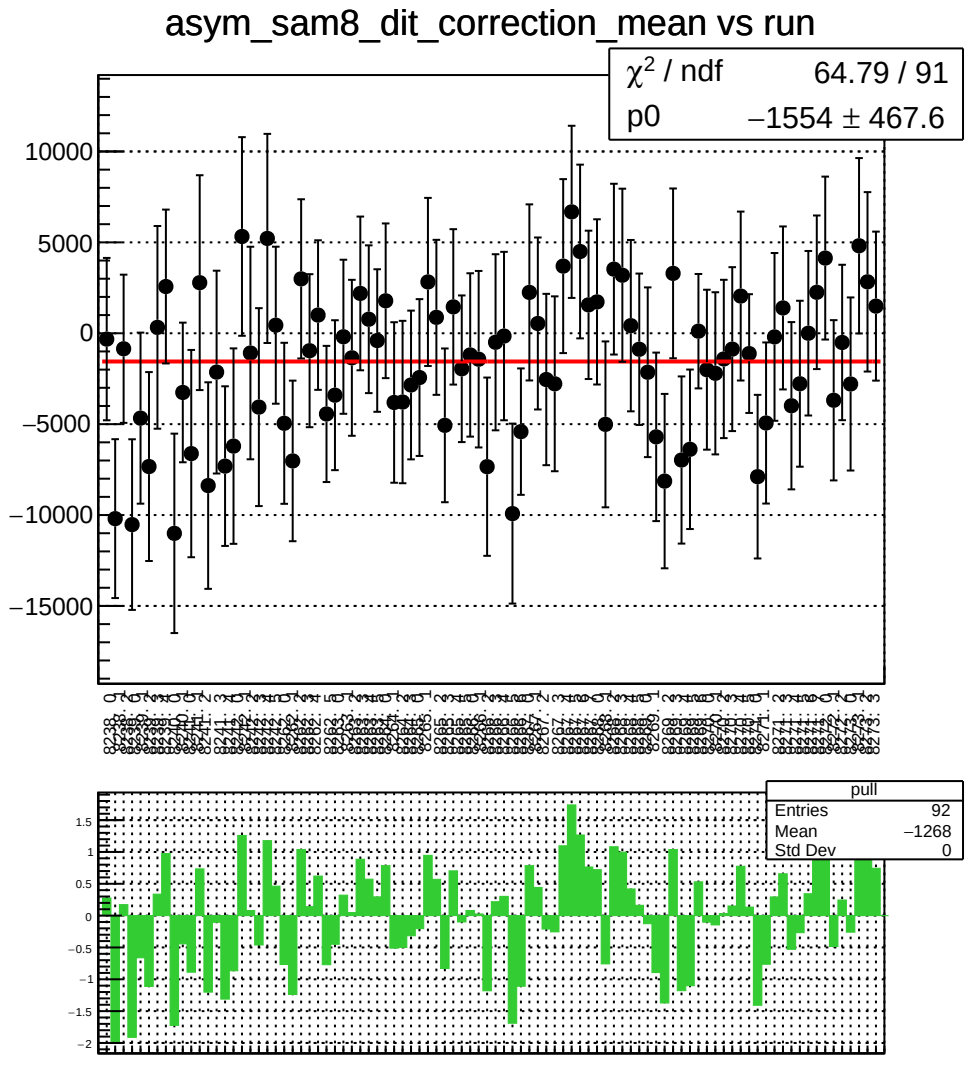

pull1D
Entries 92
Mean −0.006167
Std Dev 0.8418
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

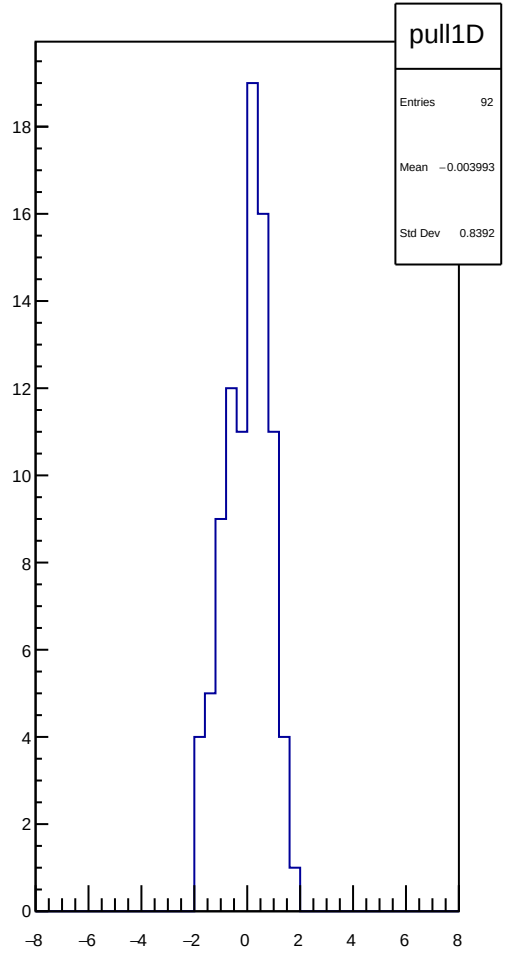

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 1.731e+04 / 91
p0 429 ± 0.3229
580
560
540
520
500
480
460
440
420
400
380
360

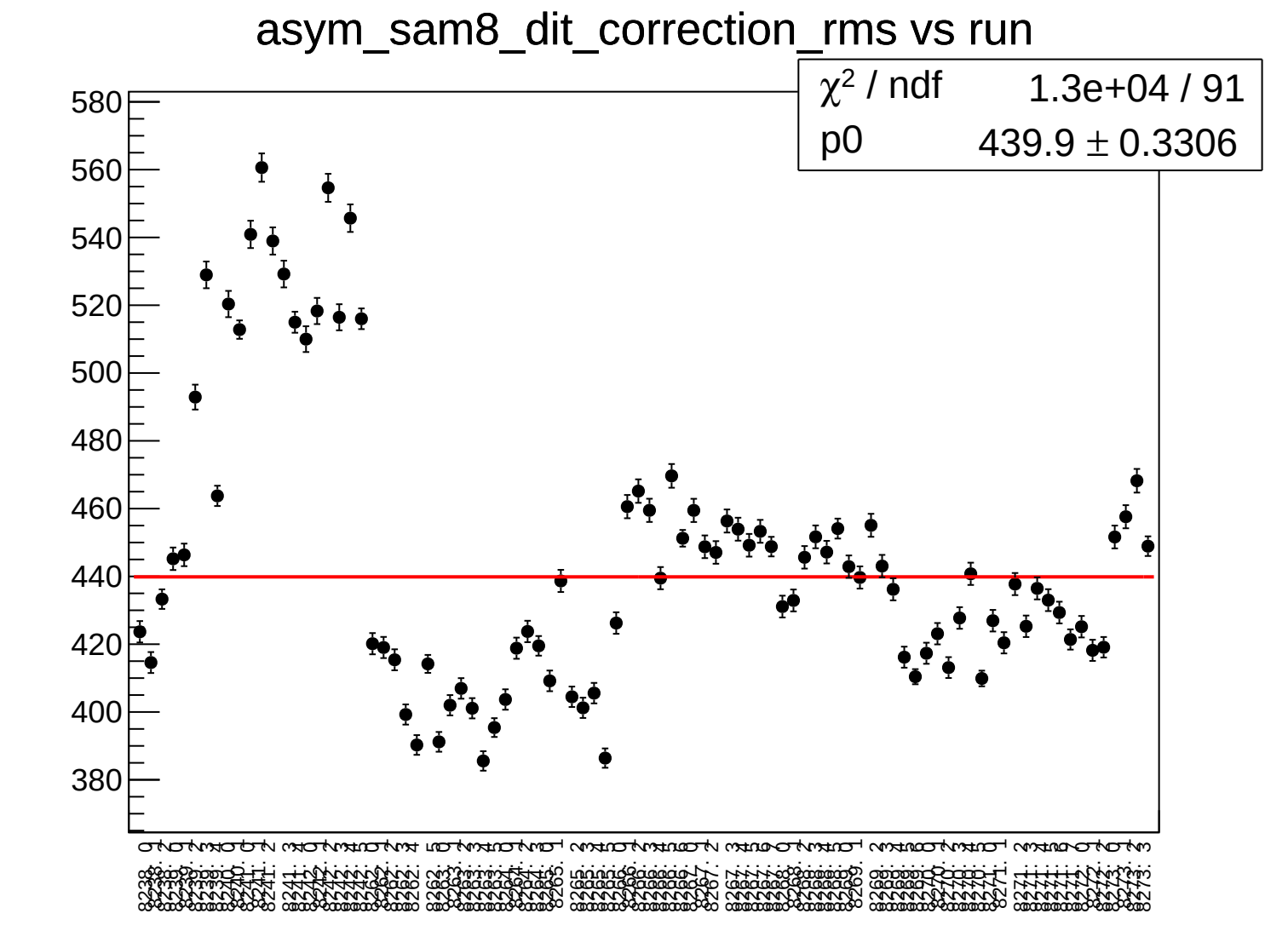

dit_asym_sam8_mean vs run
χ² / ndf 91.46 / 91
p0 −156.9 ± 78.71
pull
Entries 92
Mean −125
Std Dev 0

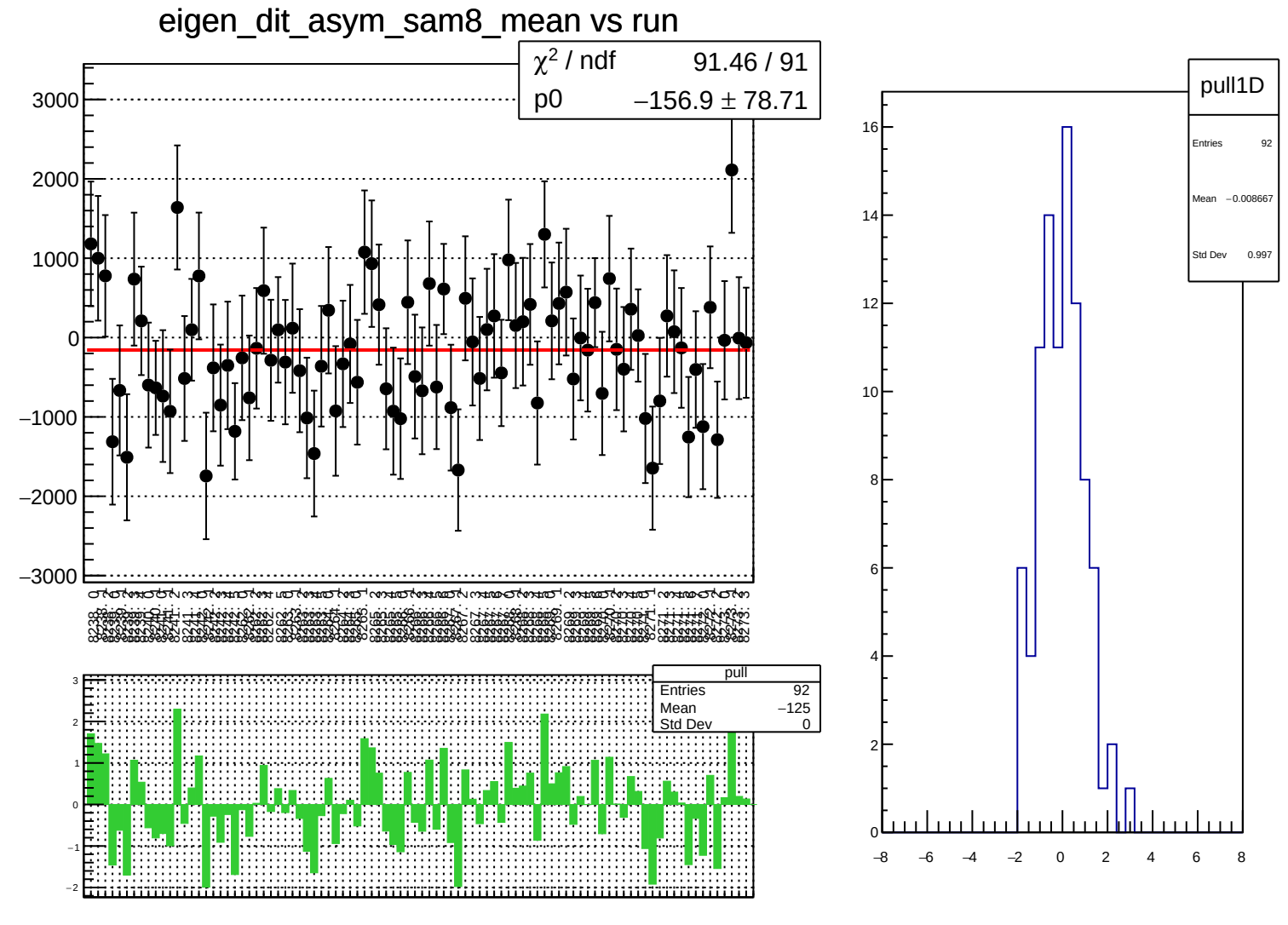

pull1D
Entries 92
Mean −0.008666
Std Dev 0.997

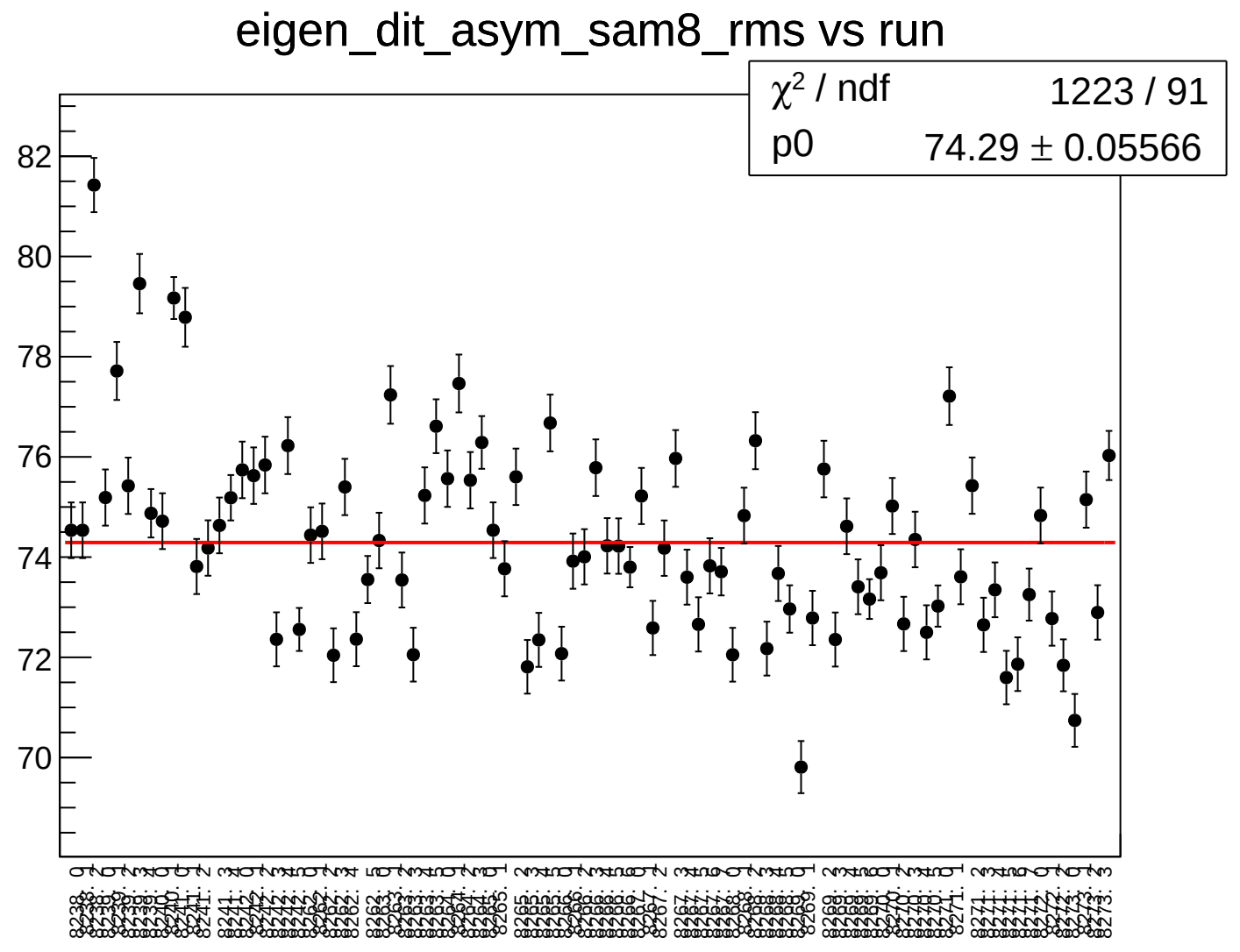

dit_asym_sam8_rms vs run
$\chi^2$ / ndf 1223 / 91
p0 74.29 ± 0.05566
82
80
78
76
74
72
70

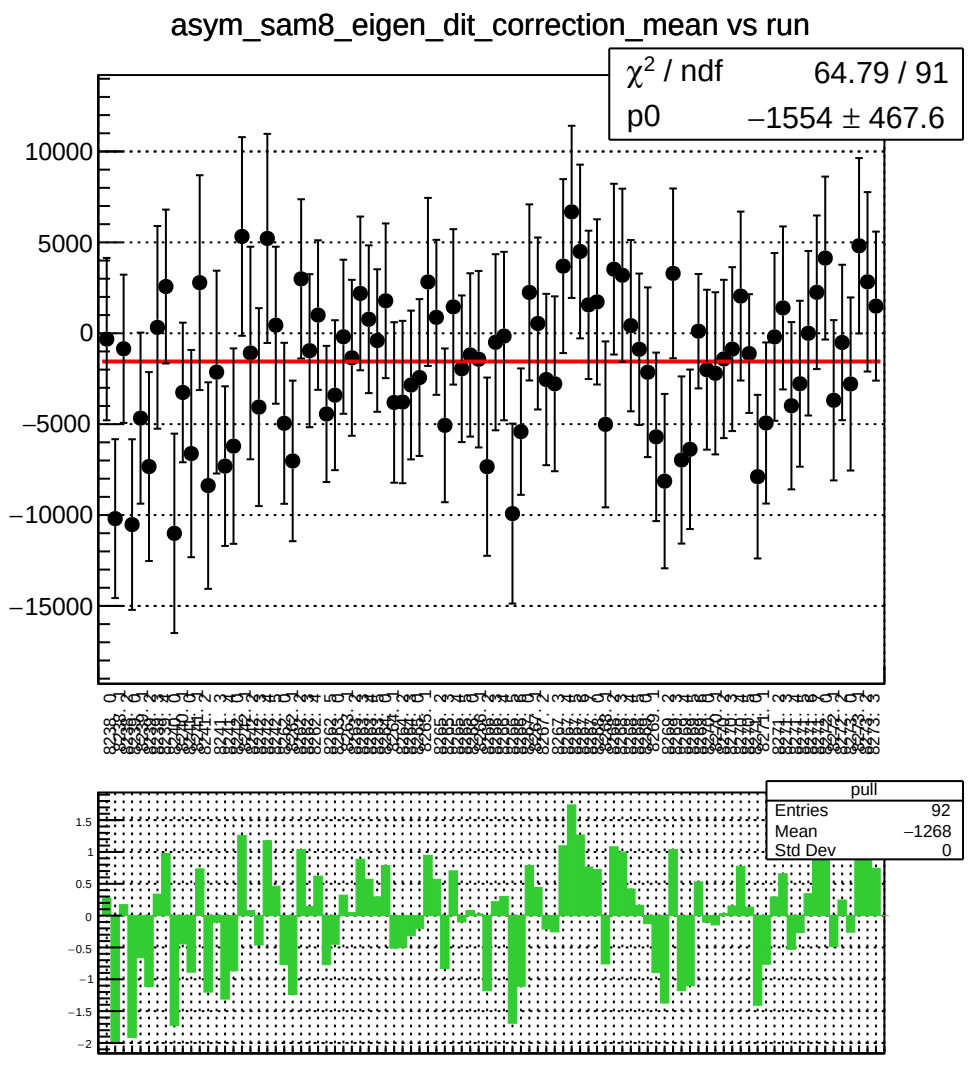

asym_sam8_dit_correction_mean vs run
χ² / ndf 64.79 / 91
p0 −1554 ± 467.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −1268
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

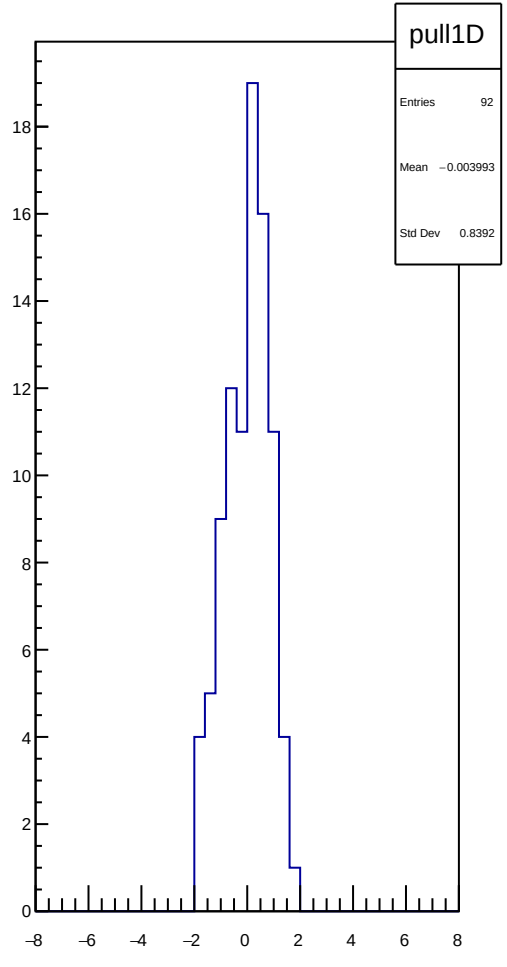

pull1D
Entries 92
Mean −0.003993
Std Dev 0.8392
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

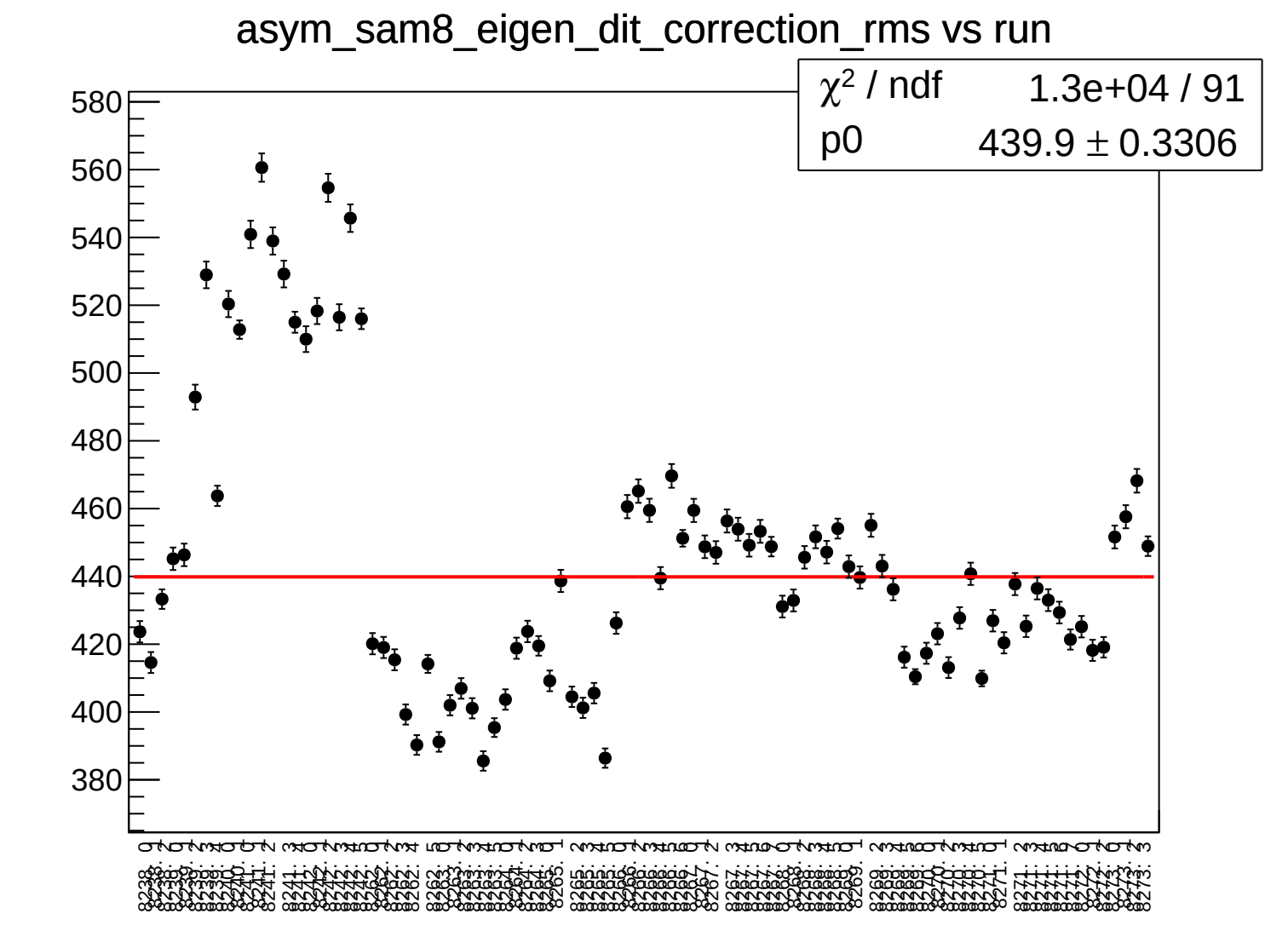

asym_sam8_dit_correction_rms vs run
χ² / ndf 1.3e+04 / 91
p0 439.9 ± 0.3306
580
560
540
520
500
480
460
440
420
400
380

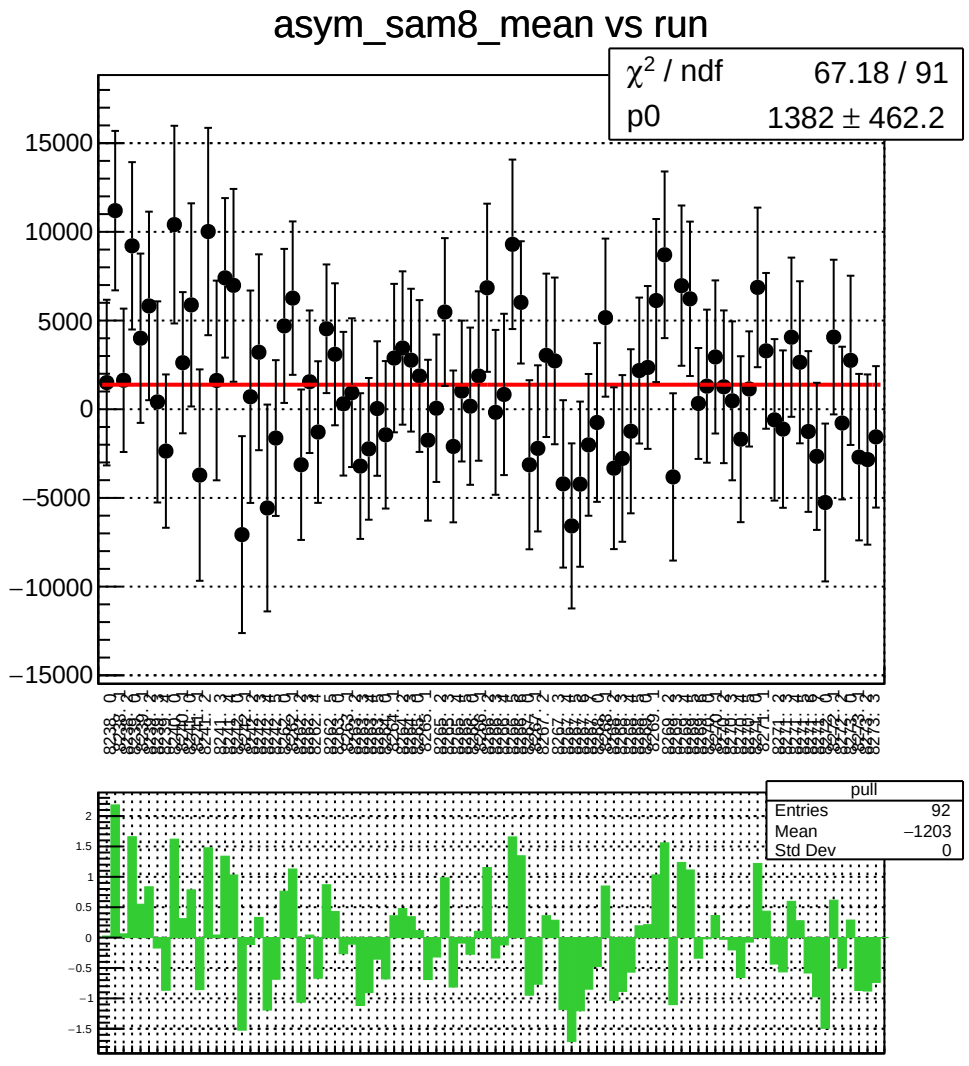

eigen_dit_asym_sam8_mean vs run
χ² / ndf 91.46 / 91
p0 −156.9 ± 78.71
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −125
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.008667
Std Dev 0.997
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

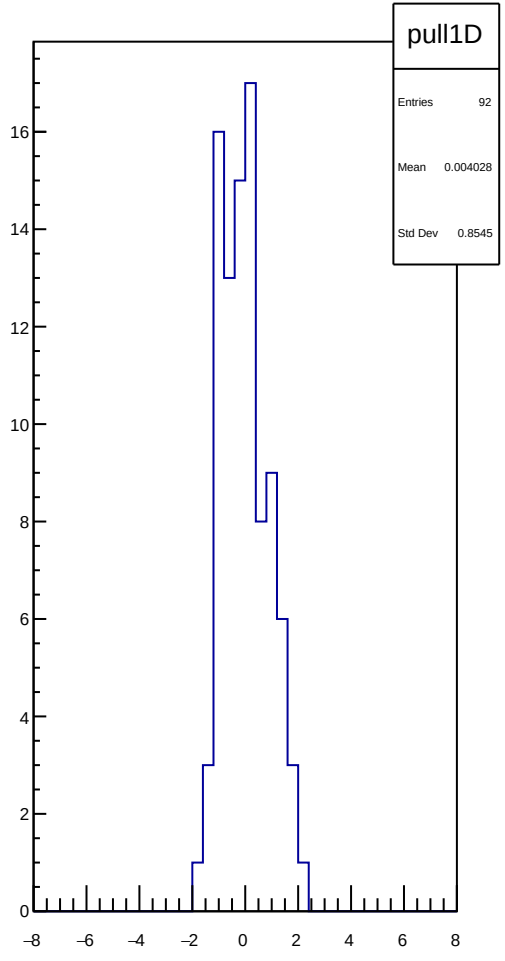

eigen_dit_asym_sam8_rms vs run
$\chi^2$ / ndf 1223 / 91
p0 74.29 ± 0.05566
82
80
78
76
74
72
70

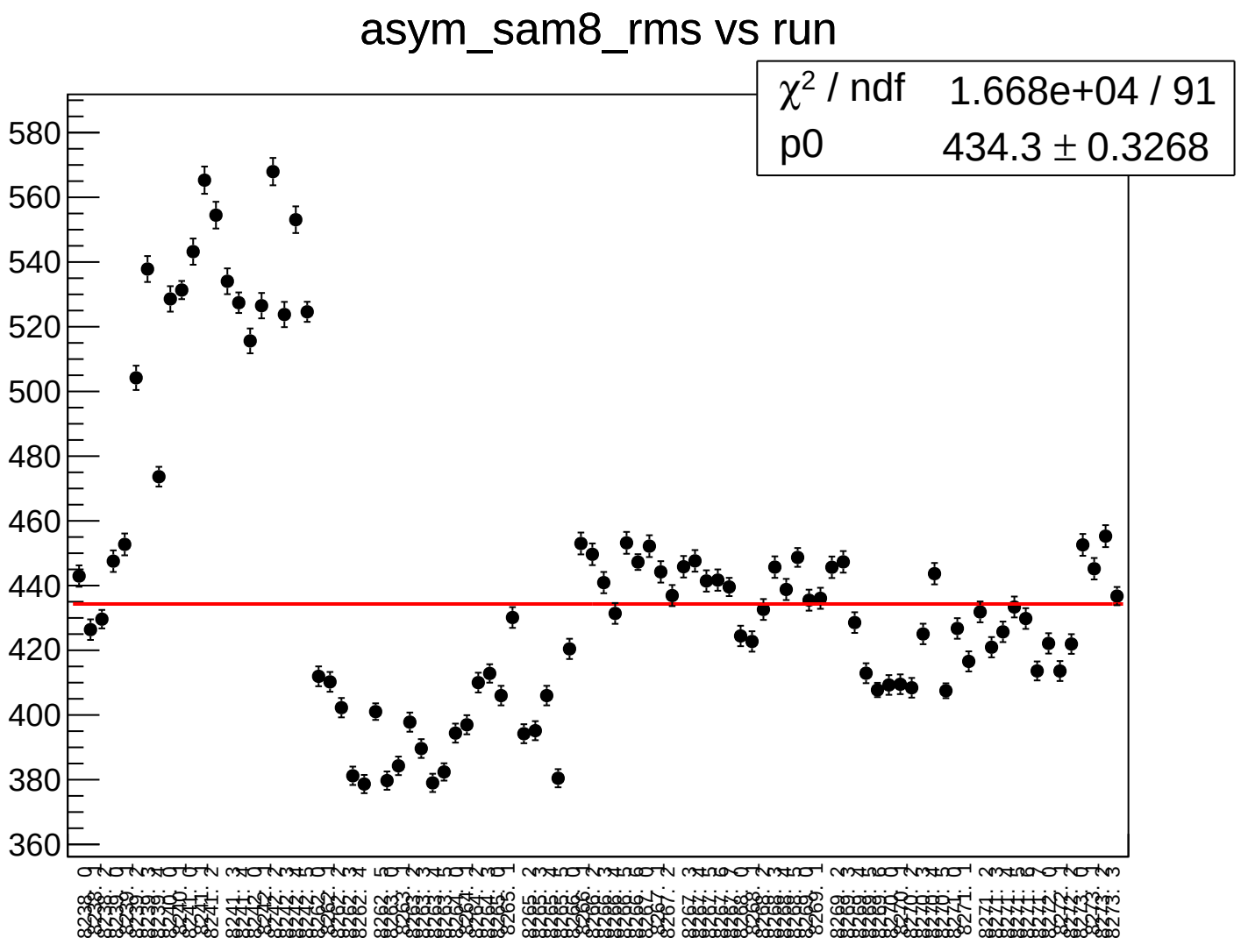

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 64.79 / 91
p0 −1554 ± 467.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −1268
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

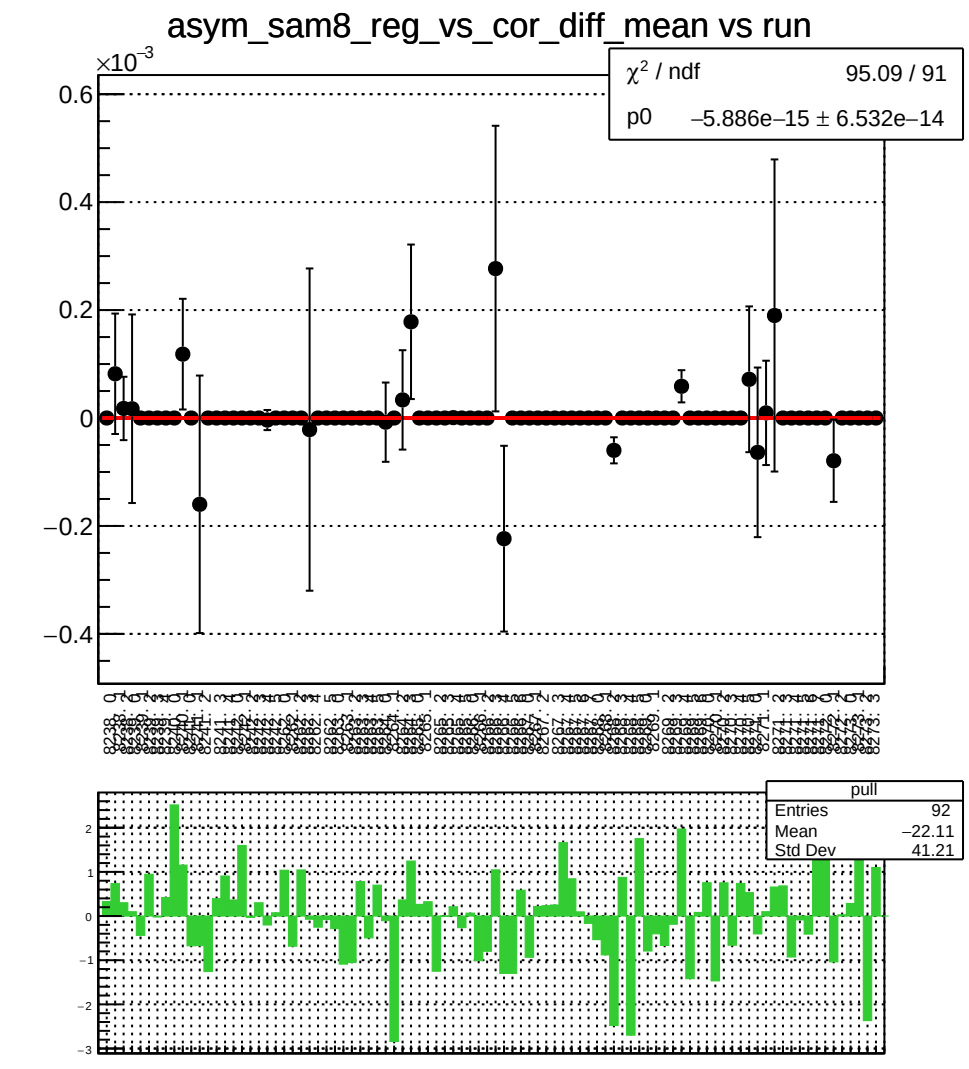

pull1D
Entries 92
Mean −0.003993
Std Dev 0.8392
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

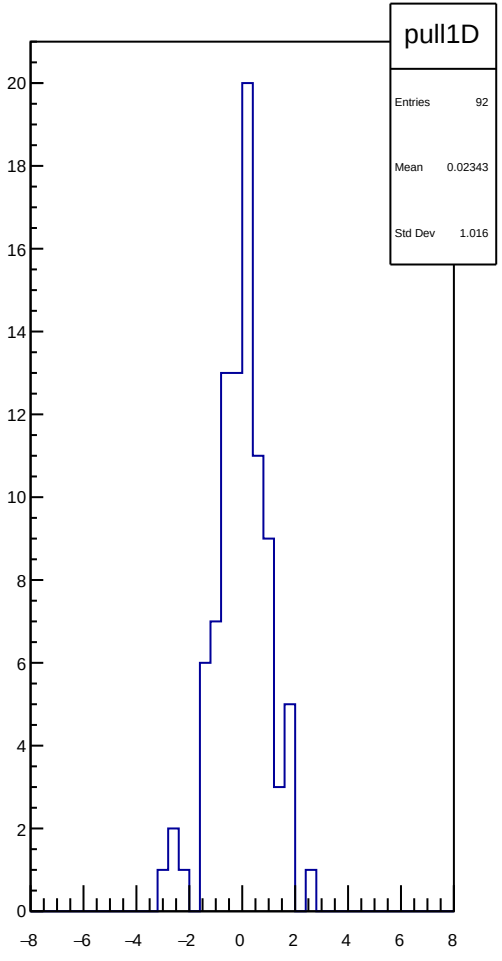

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 1.3e+04 / 91
p0 439.9 ± 0.3306
580
560
540
520
500
480
460
440
420
400
380

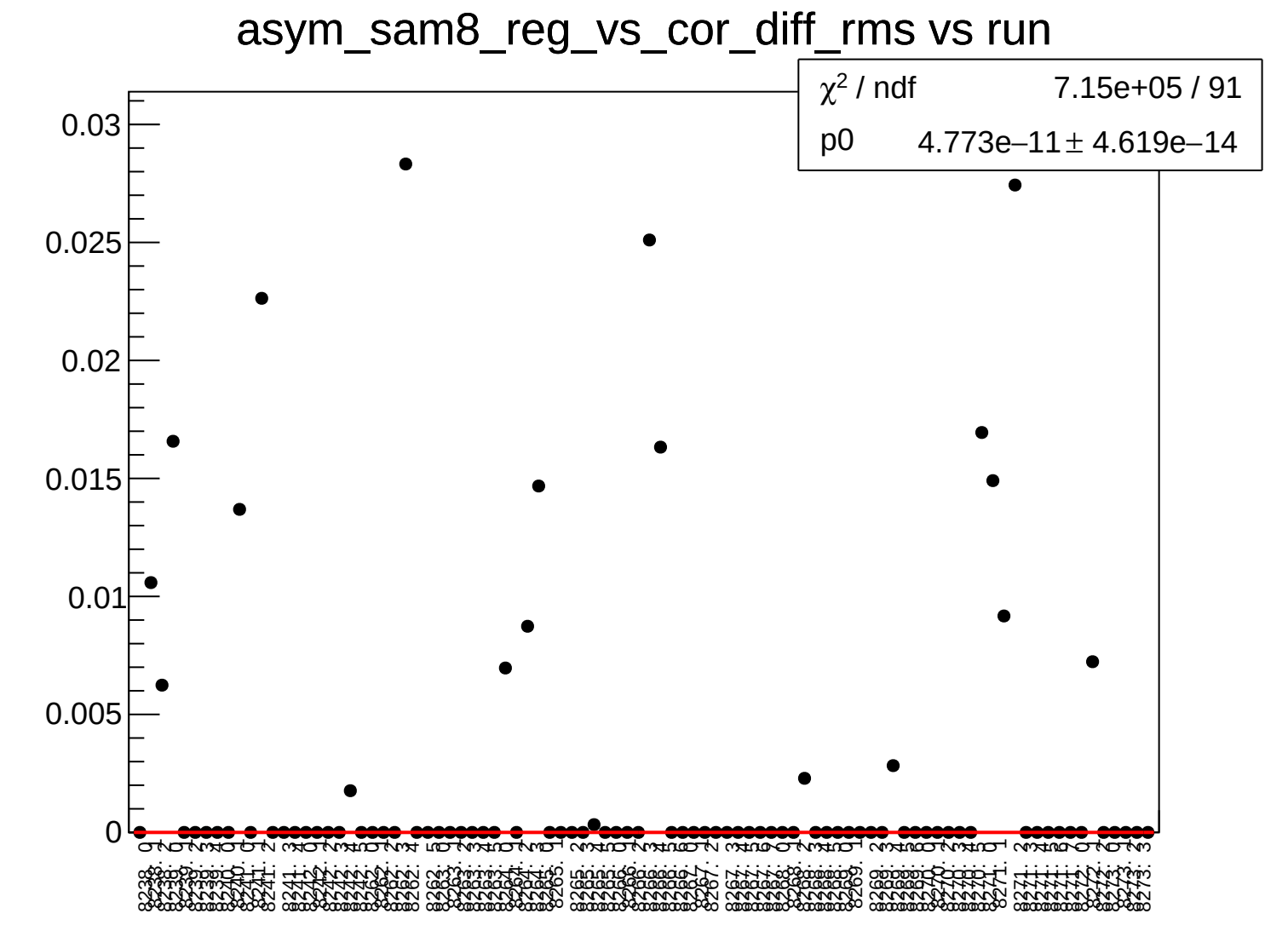

asym_sam8_mean vs run
χ² / ndf 67.18 / 91
p0 1382 ± 462.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −1203
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

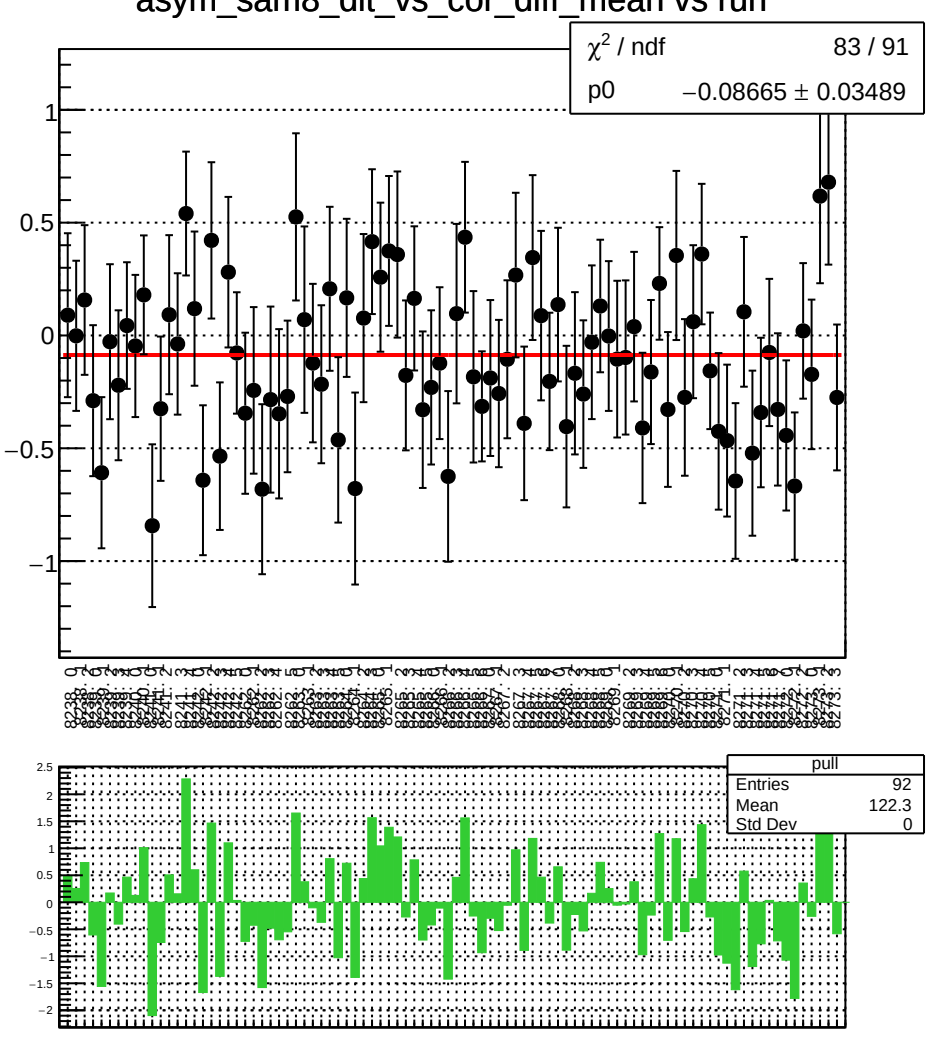

pull1D
Entries 92
Mean 0.004028
Std Dev 0.8545
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

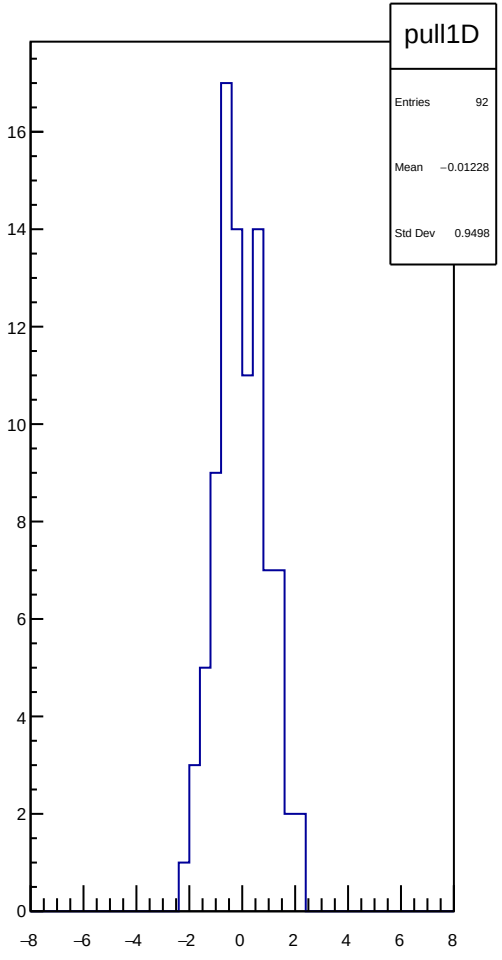

asym_sam8_rms vs run
$\chi^2$ / ndf 1.668e+04 / 91
p0 434.3 ± 0.3268
580
560
540
520
500
480
460
440
420
400
380
360

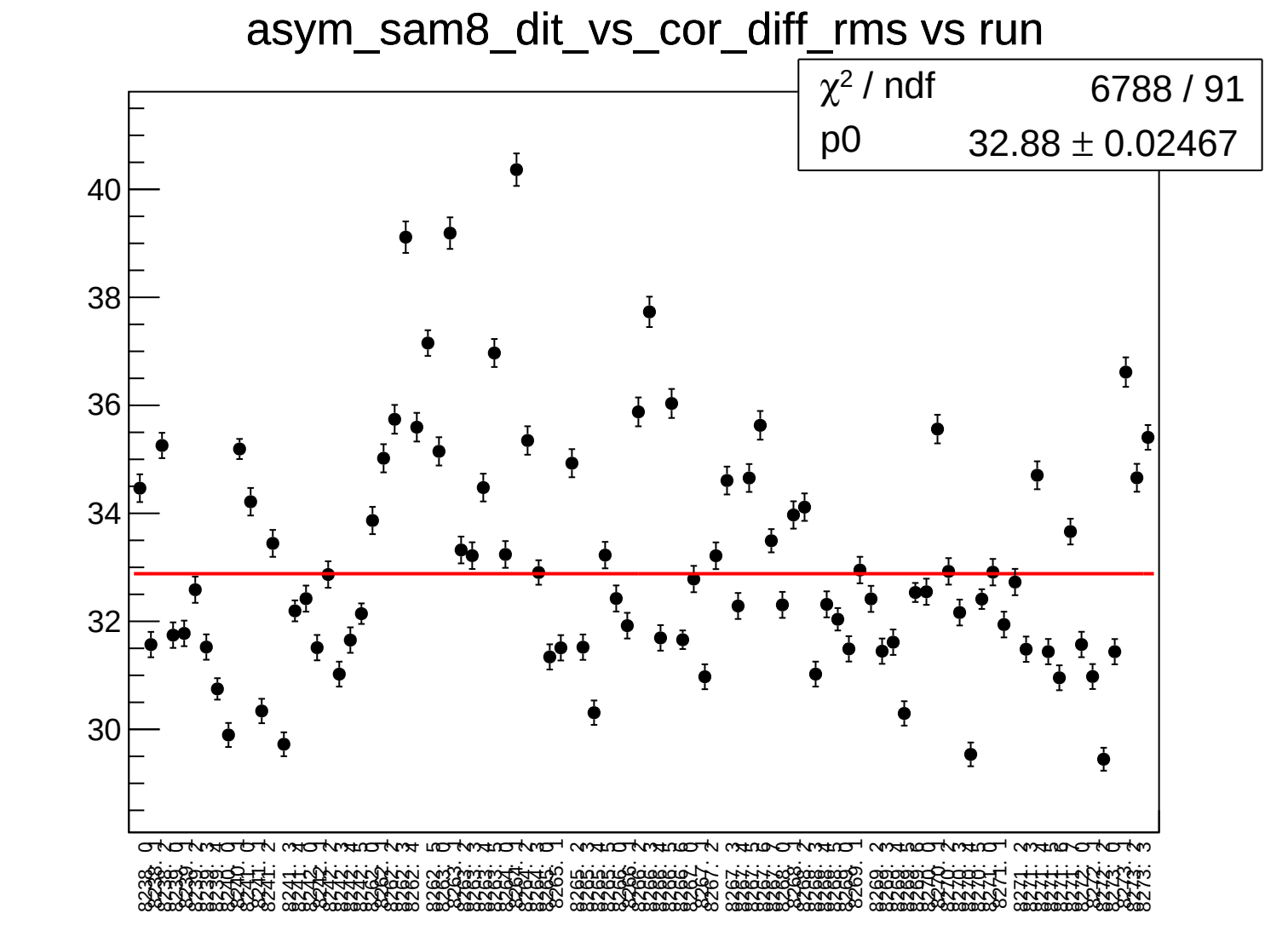

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 95.09 / 91
p0 −5.886e−15 ± 6.532e−14
pull
Entries 92
Mean −22.11
Std Dev 41.21

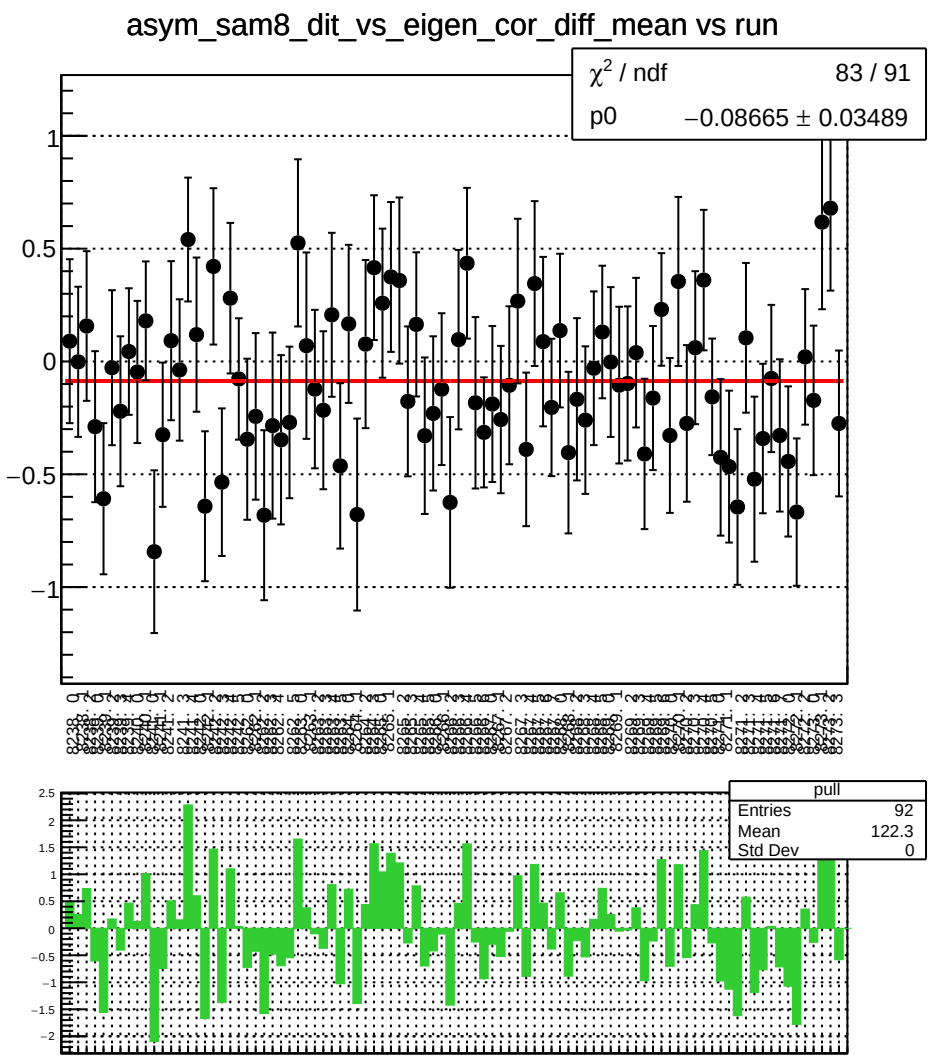

pull1D
Entries 92
Mean 0.02343
Std Dev 1.016

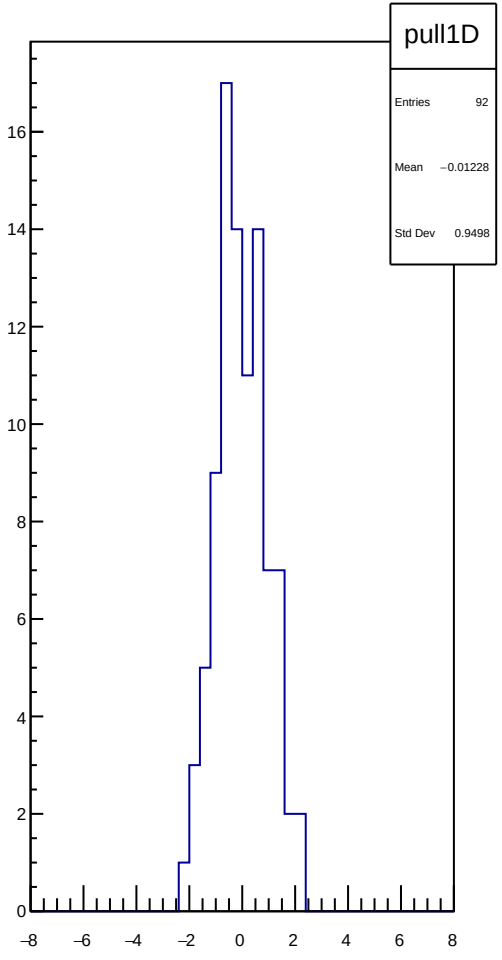

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 7.15e+05 / 91
p0 4.773e−11 ± 4.619e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

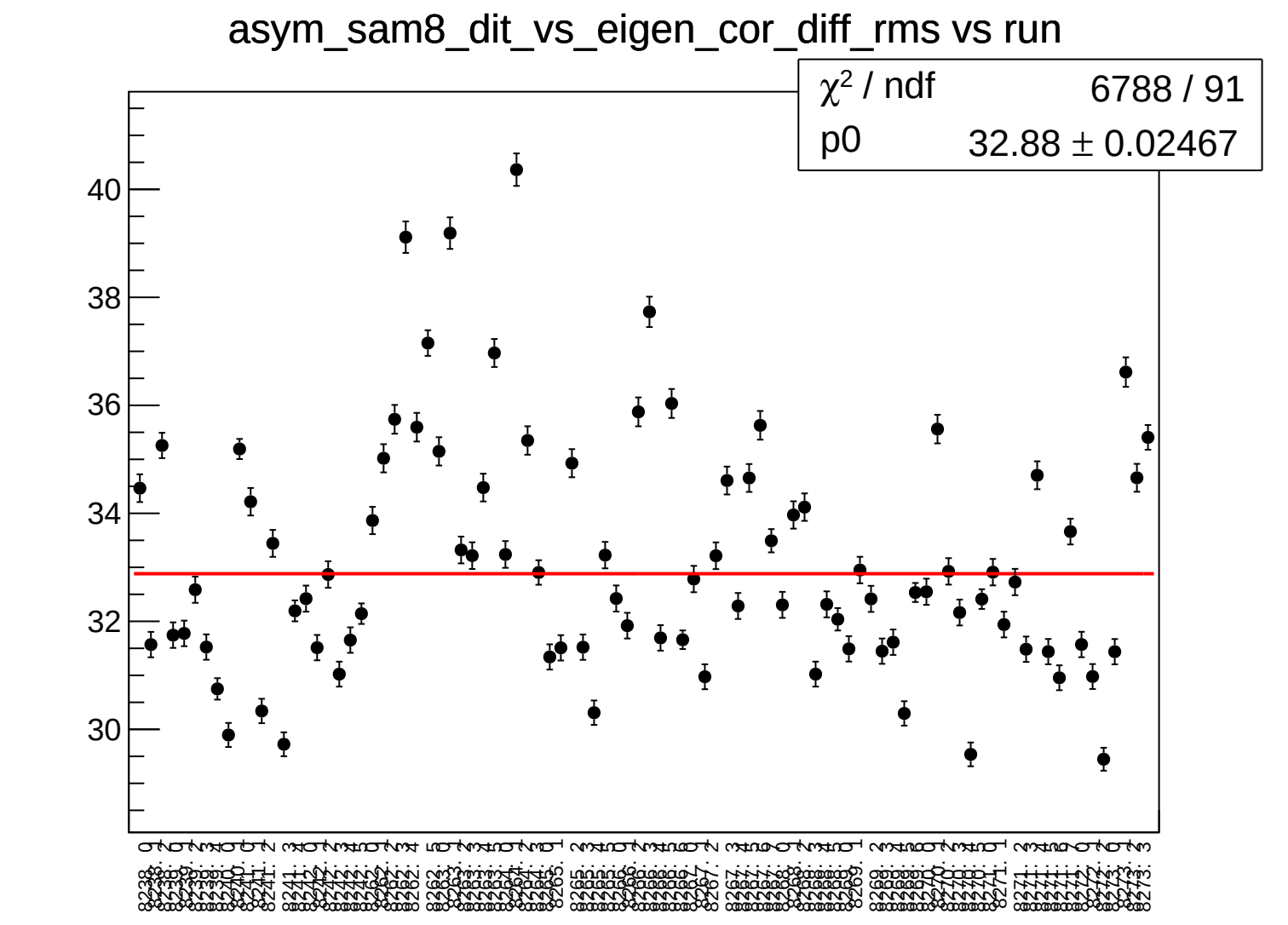

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 83 / 91
p0 −0.08665 ± 0.03489
pull
Entries 92
Mean 122.3
Std Dev 0

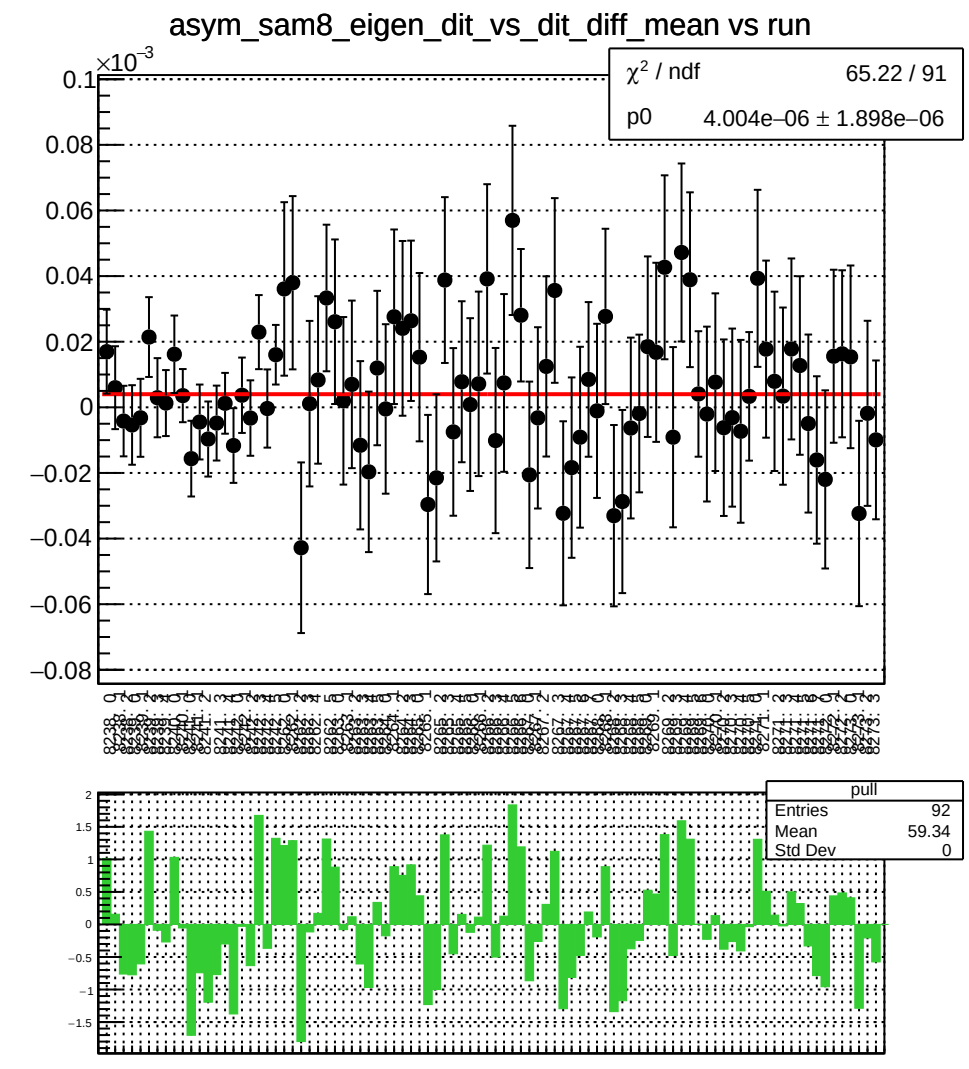

pull1D
Entries 92
Mean −0.01228
Std Dev 0.9498

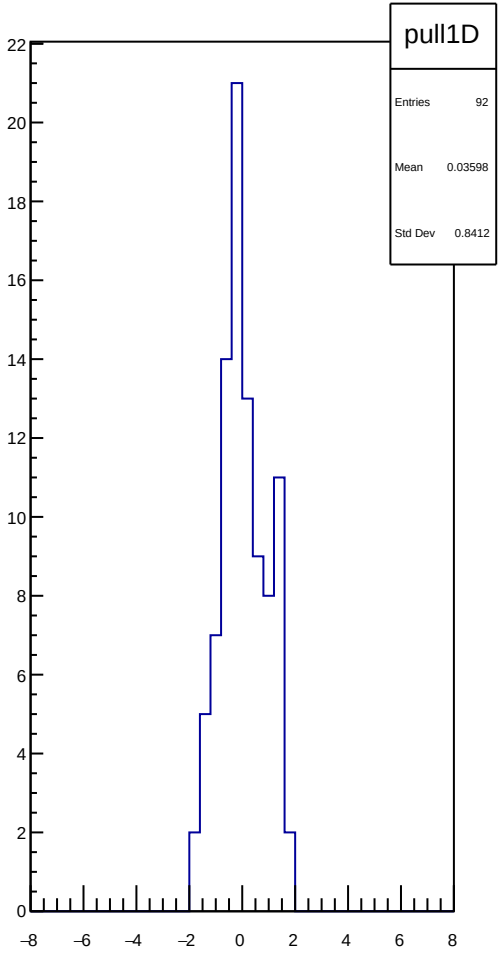

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 6788 / 91
p0 32.88 ± 0.02467
40
38
36
34
32
30

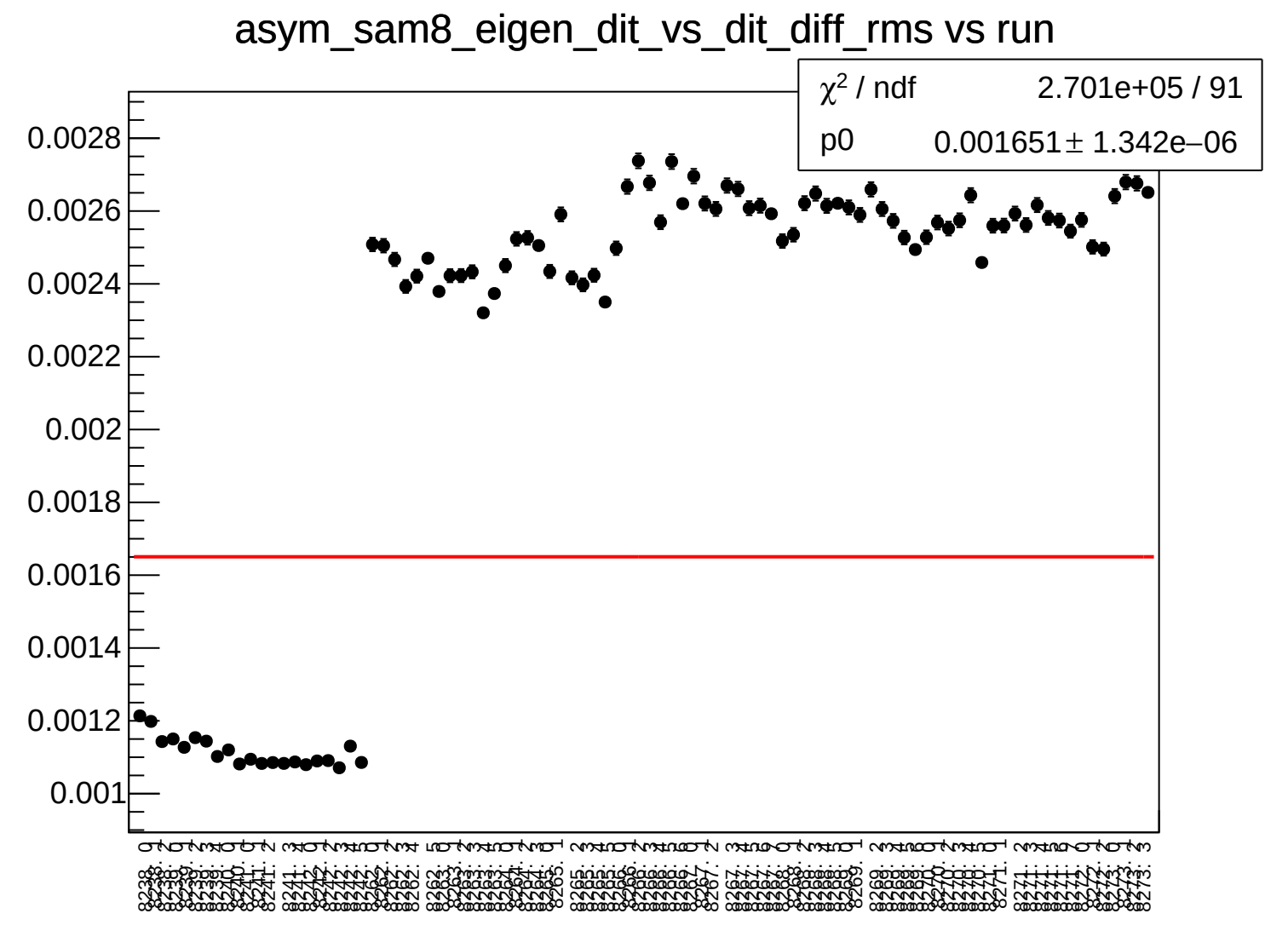

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83 / 91
p0 −0.08665 ± 0.03489
pull
Entries 92
Mean 122.3
Std Dev 0

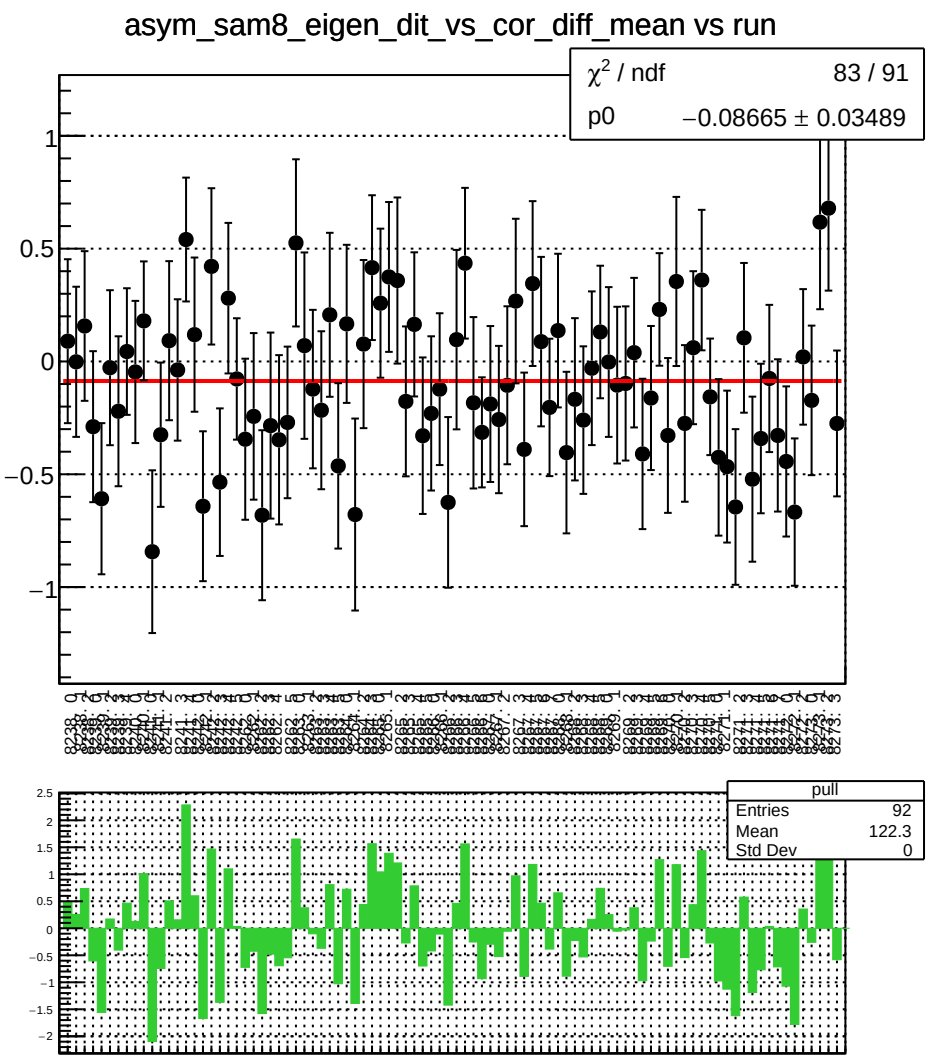

pull1D
Entries 92
Mean −0.01228
Std Dev 0.9498

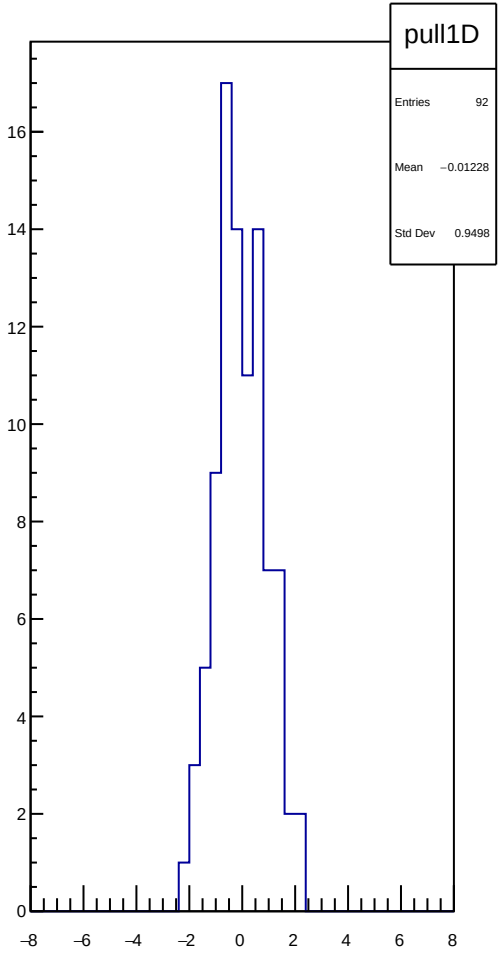

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6788 / 91
p0 32.88 ± 0.02467
40
38
36
34
32
30

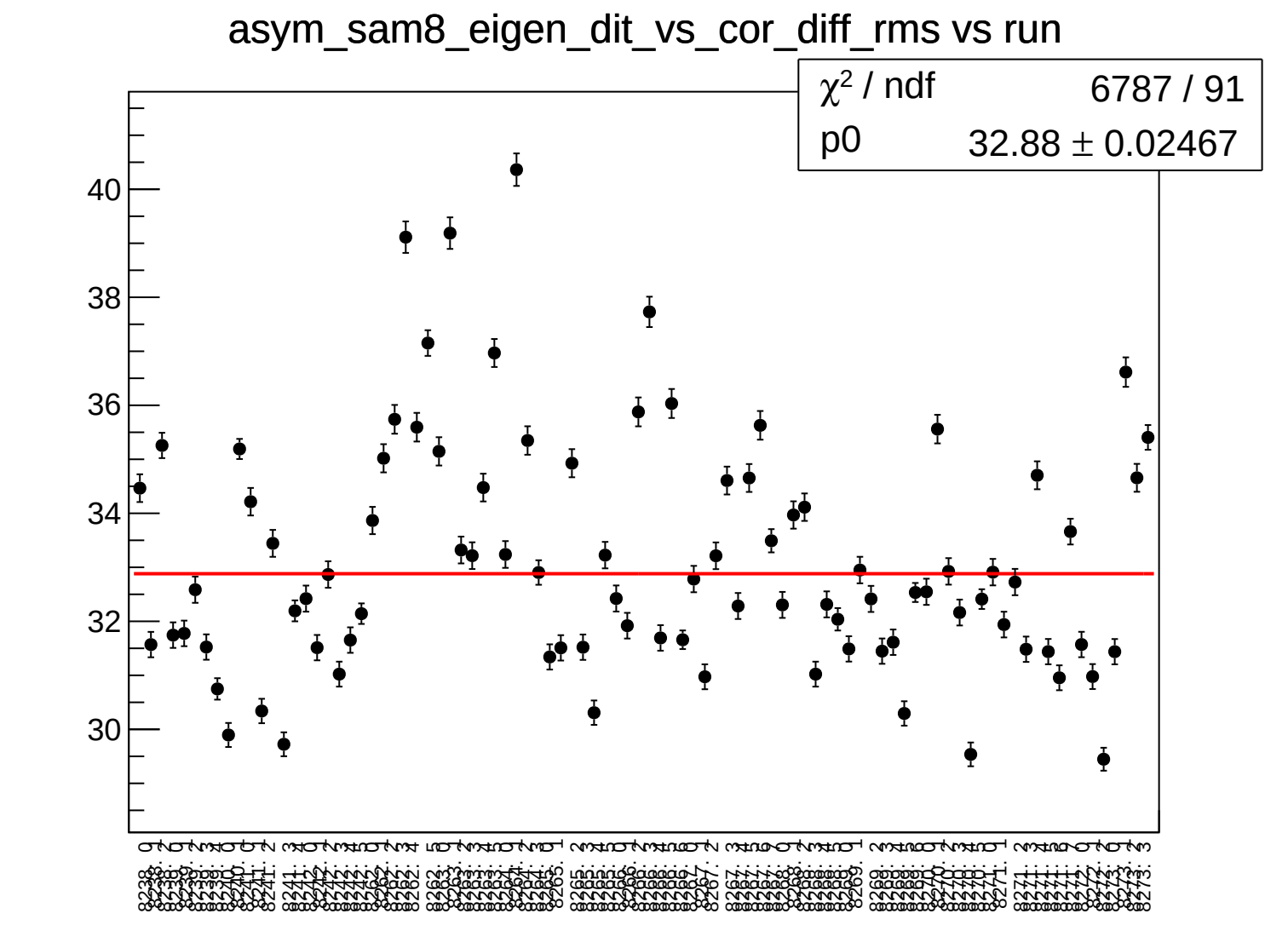

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 65.22 / 91
p0 4.004e−06 ± 1.898e−06
×10⁻³
pull
Entries 92
Mean 59.34
Std Dev 0

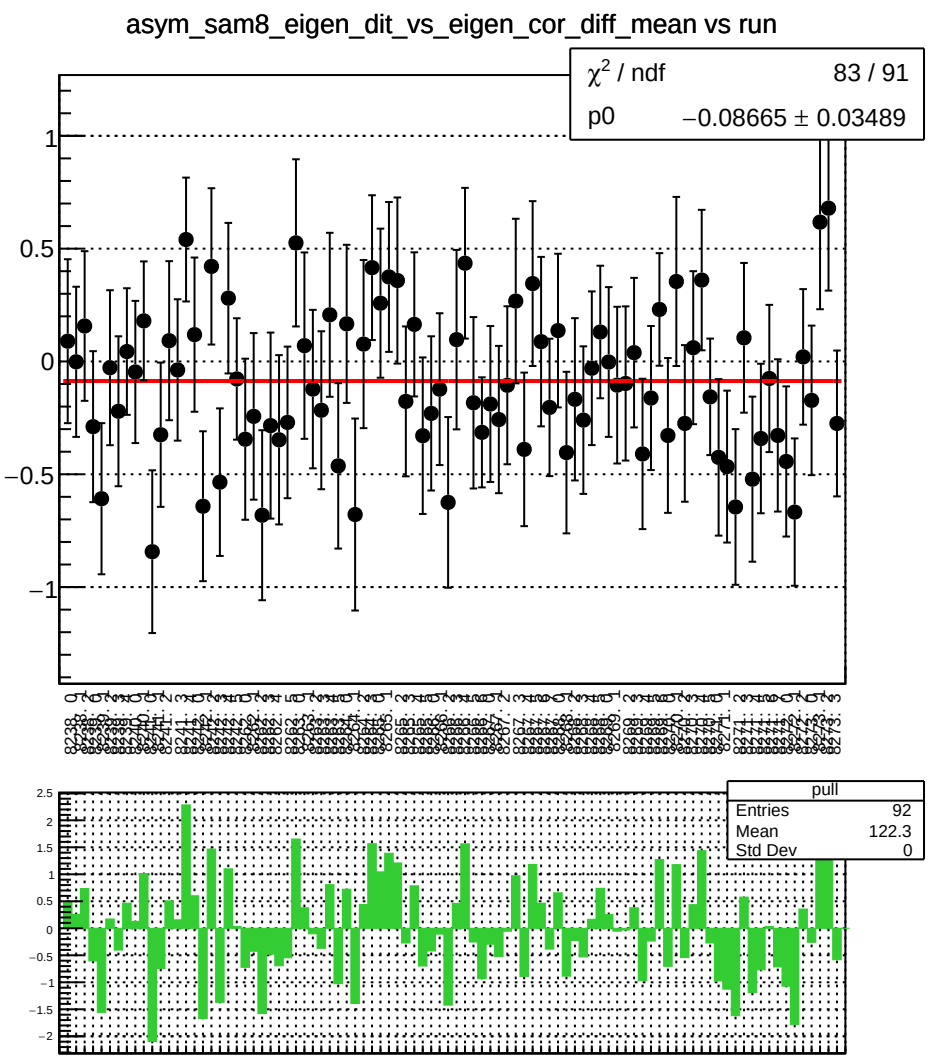

pull1D
Entries 92
Mean 0.03598
Std Dev 0.8412

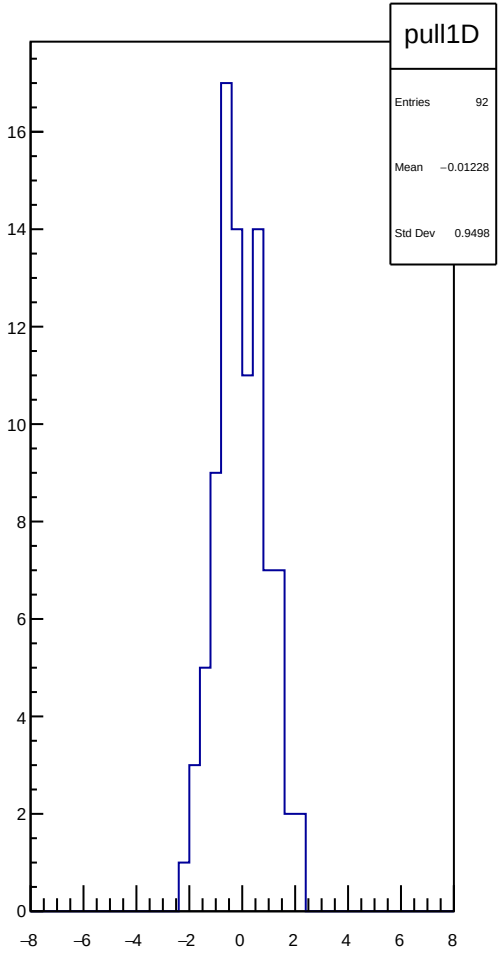

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.701e+05 / 91
p0 0.001651 ± 1.342e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

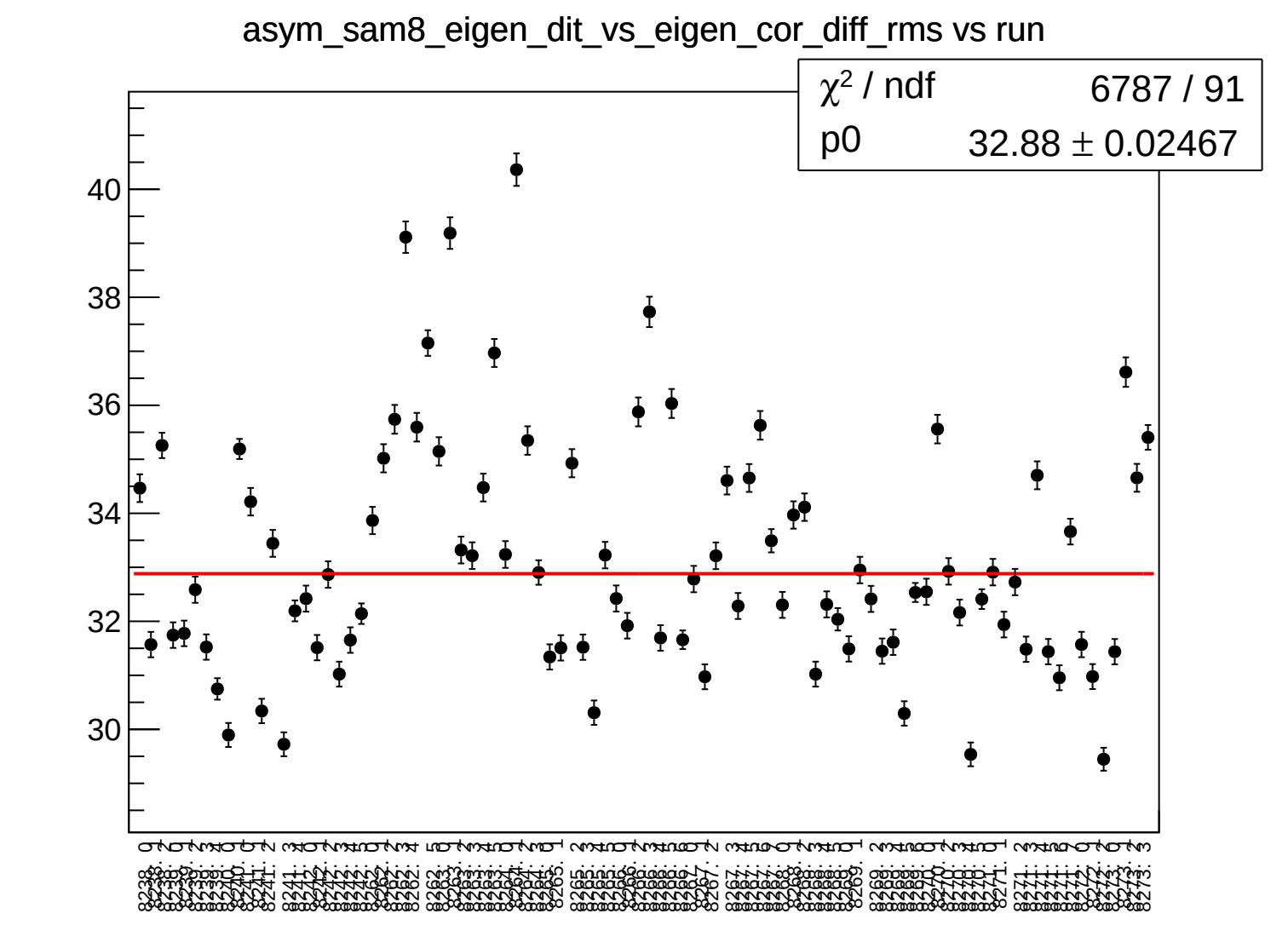

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83 / 91
p0 −0.08665 ± 0.03489
pull
Entries 92
Mean 122.3
Std Dev 0

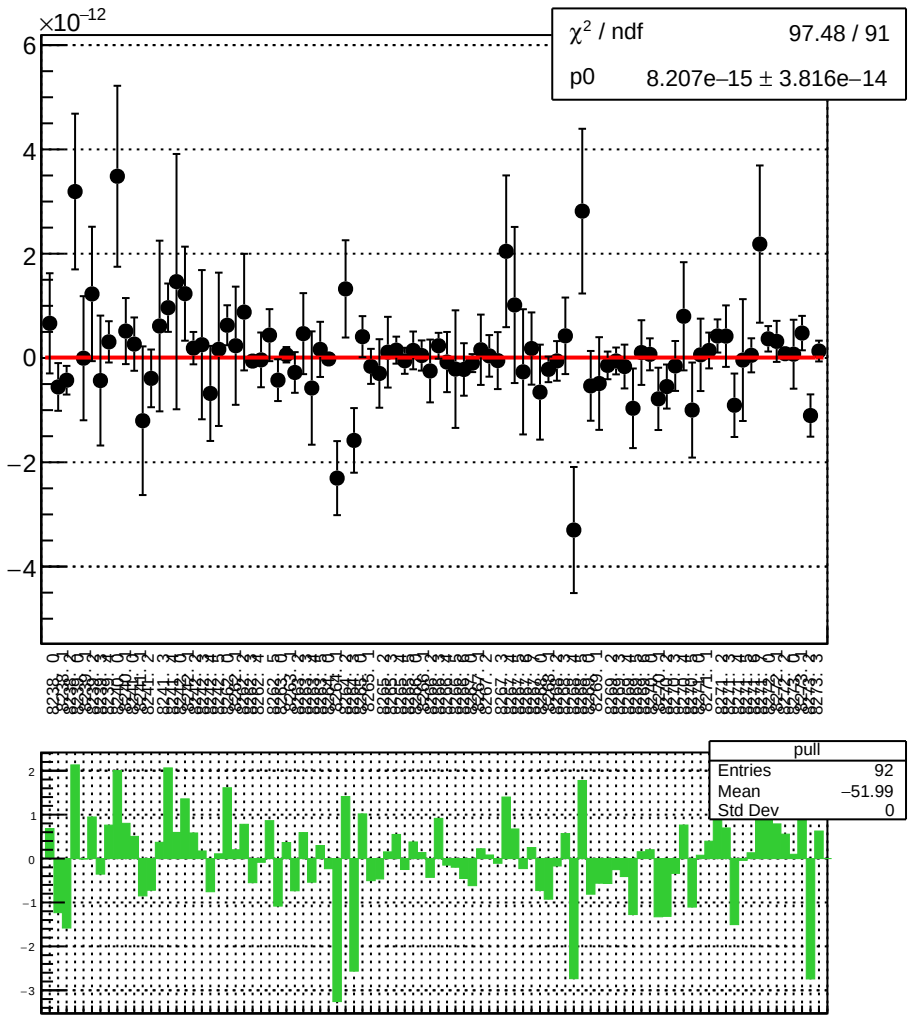

pull1D
Entries 92
Mean −0.01228
Std Dev 0.9498

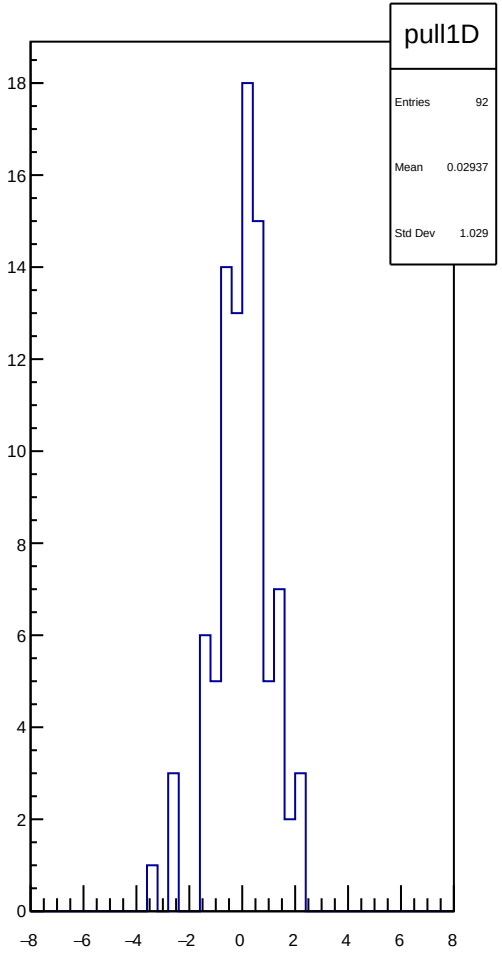

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6787 / 91
p0 32.88 ± 0.02467
40
38
36
34
32
30

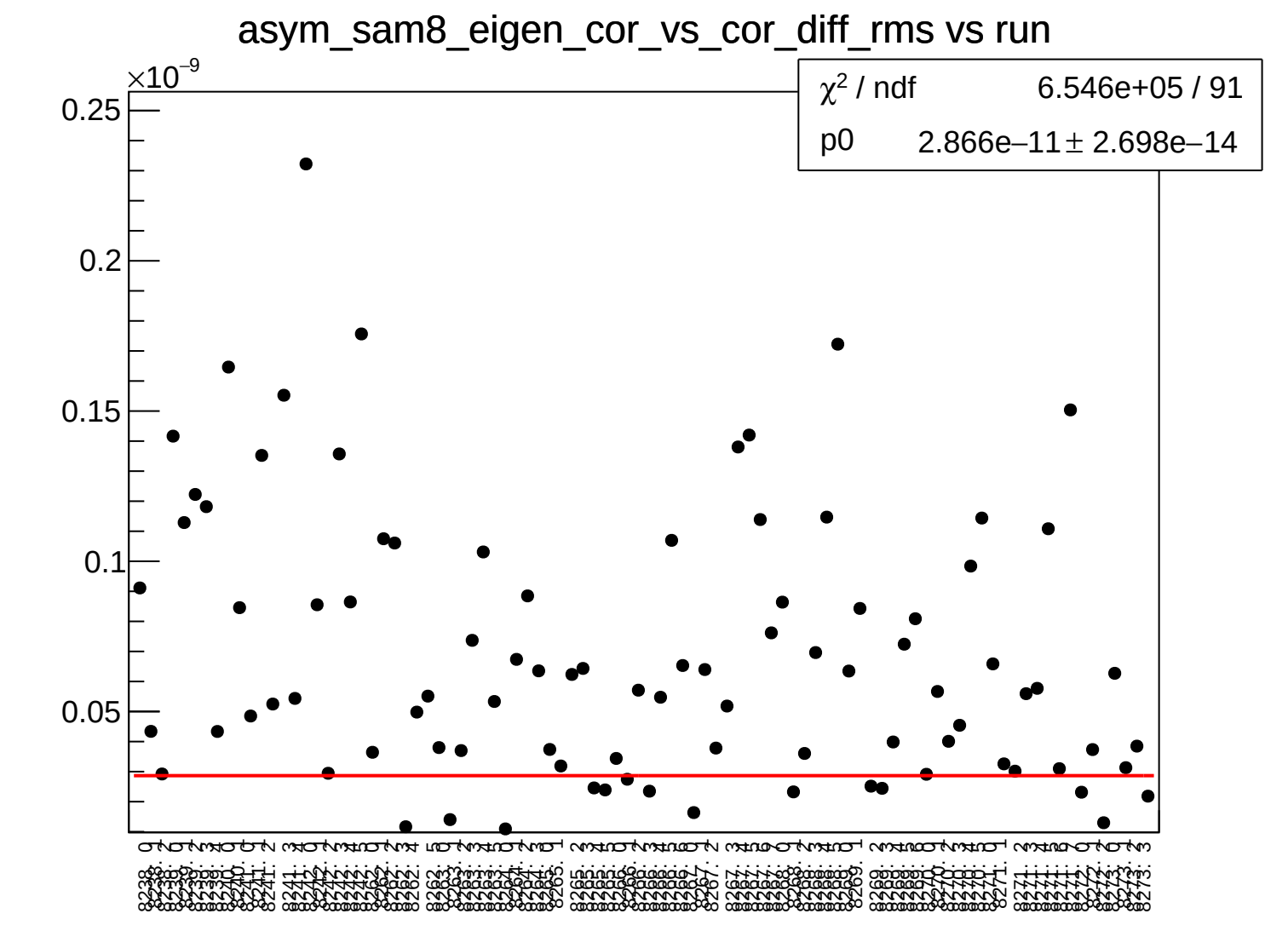

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83 / 91
p0 −0.08665 ± 0.03489
pull
Entries 92
Mean 122.3
Std Dev 0

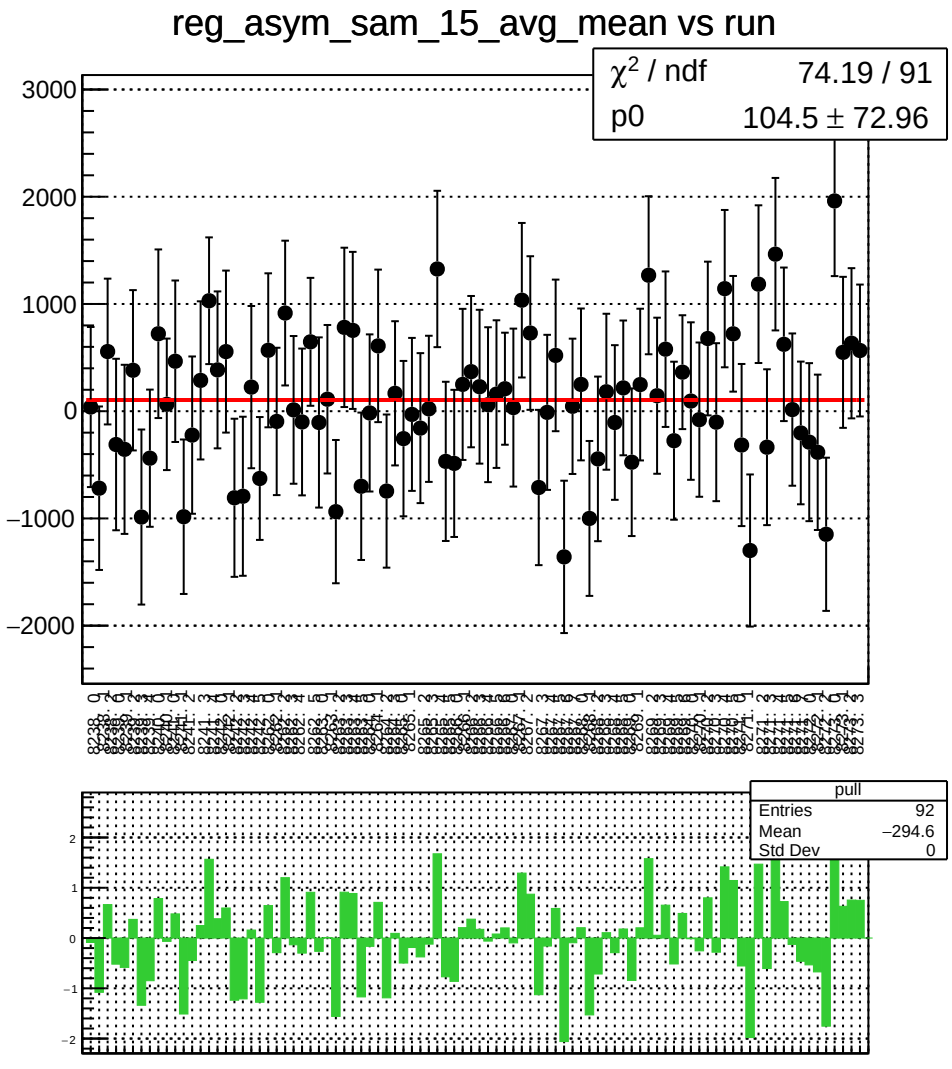

pull1D
Entries 92
Mean −0.01228
Std Dev 0.9498

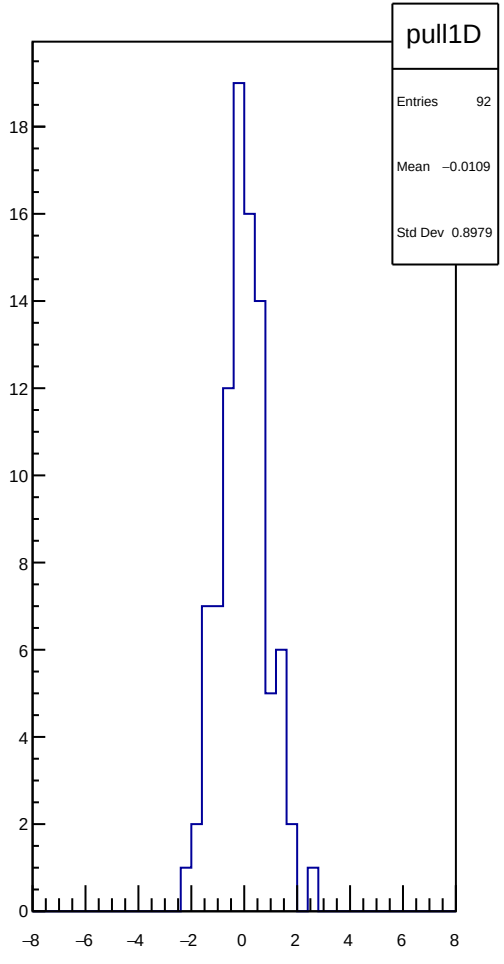

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6787 / 91
p0 32.88 ± 0.02467
40
38
36
34
32
30

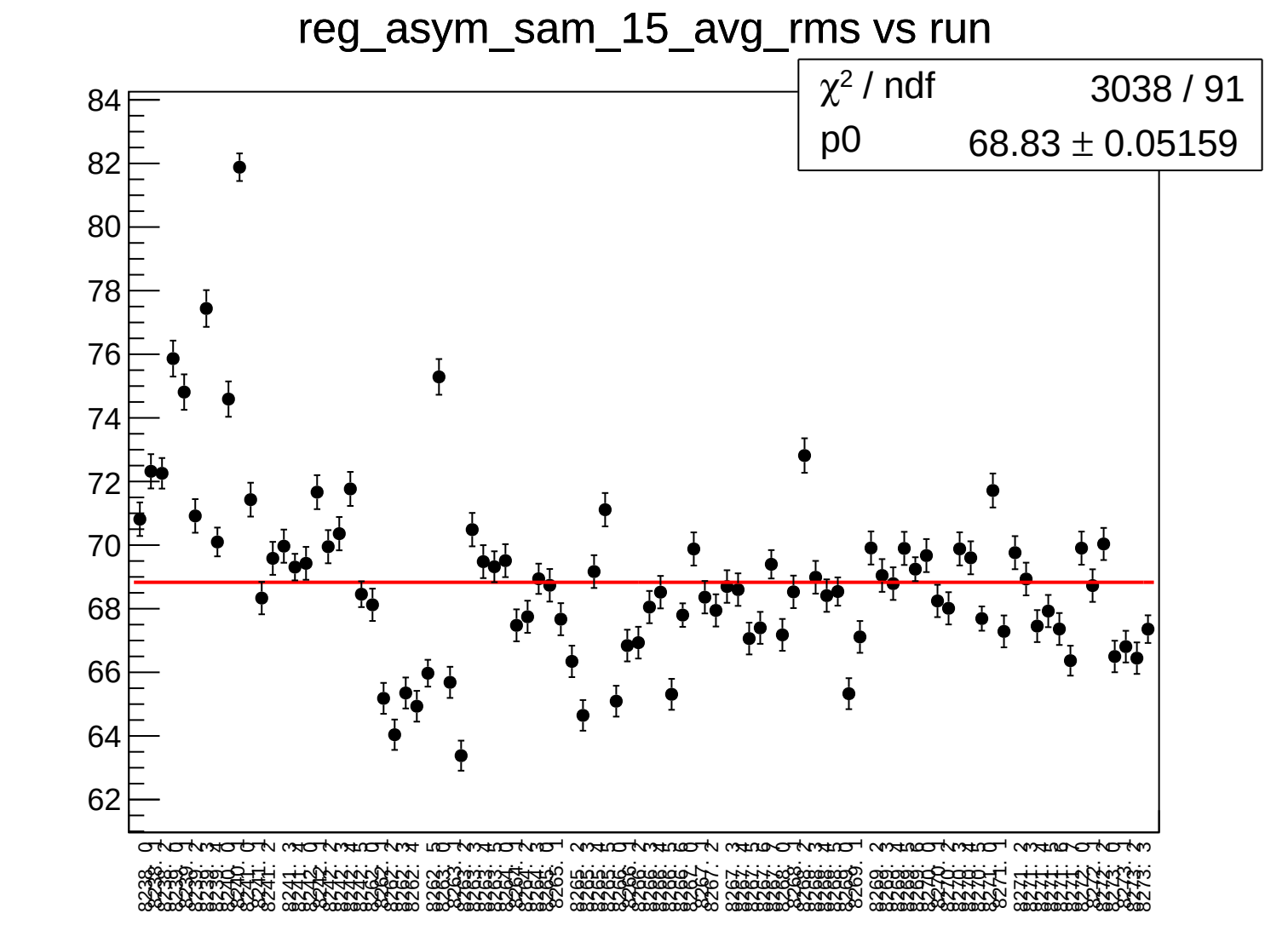

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.48 / 91
p0 8.207e−15 ± 3.816e−14
pull
Entries 92
Mean −51.99
Std Dev 0

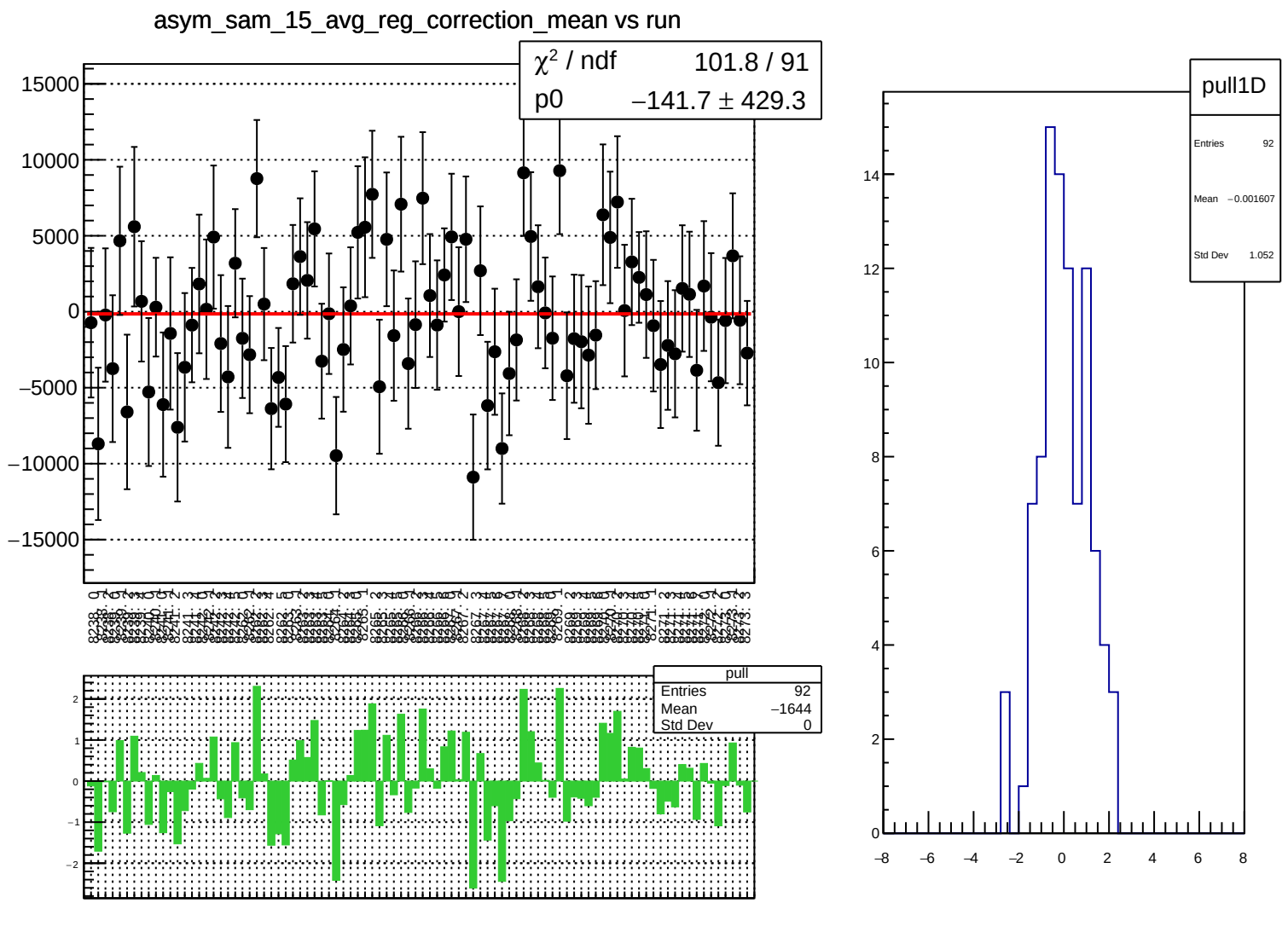

pull1D
Entries 92
Mean 0.02937
Std Dev 1.029

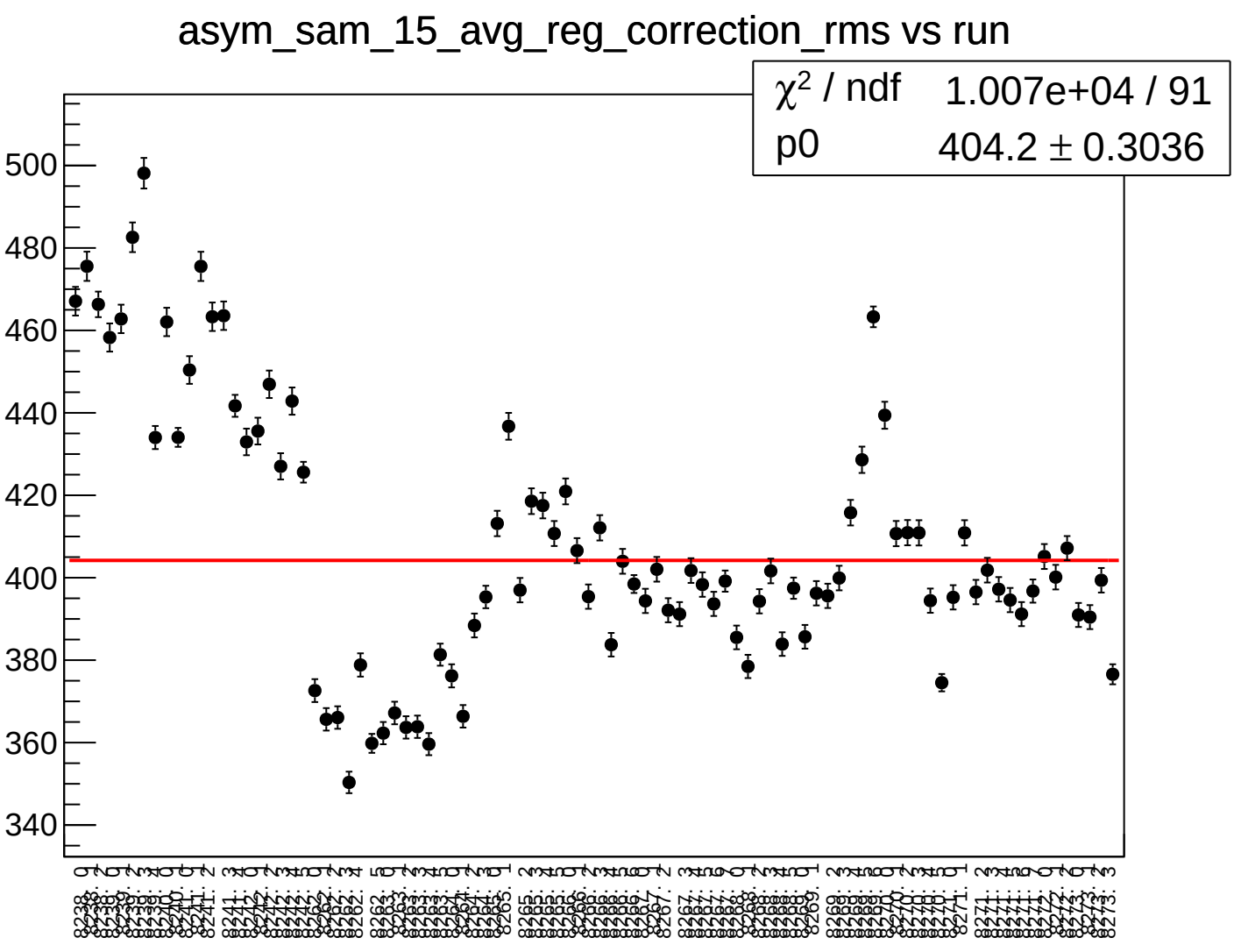

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.25
0.2
0.15
0.1
0.05
χ² / ndf 6.546e+05 / 91
p0 2.866e−11 ± 2.698e−14

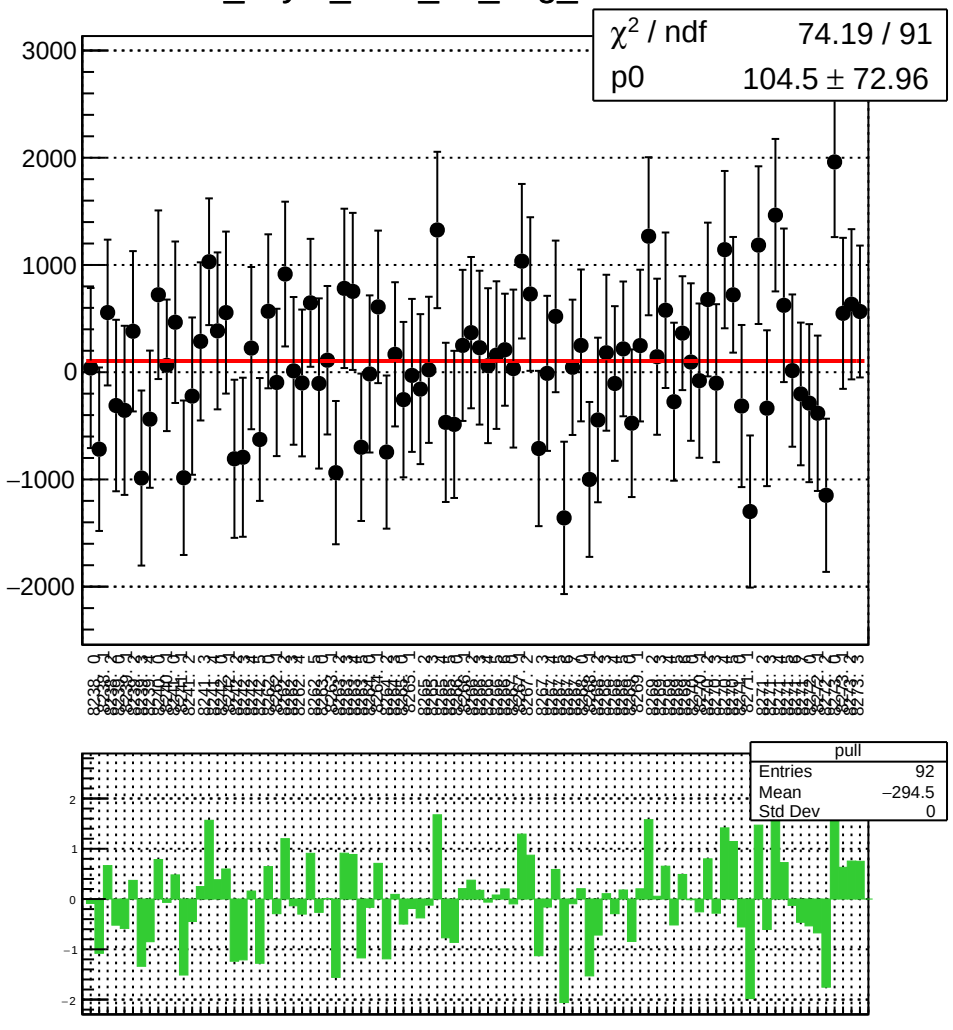

reg_asym_sam_15_avg_mean vs run
χ² / ndf 74.19 / 91
p0 104.5 ± 72.96
3000
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −294.6
Std Dev 0
2
1
0
−1
−2

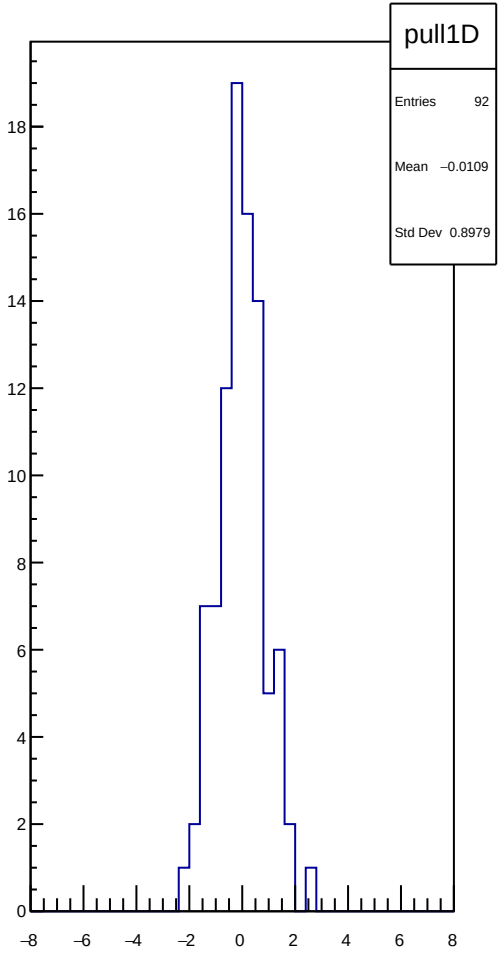

pull1D
Entries 92
Mean −0.0109
Std Dev 0.8979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

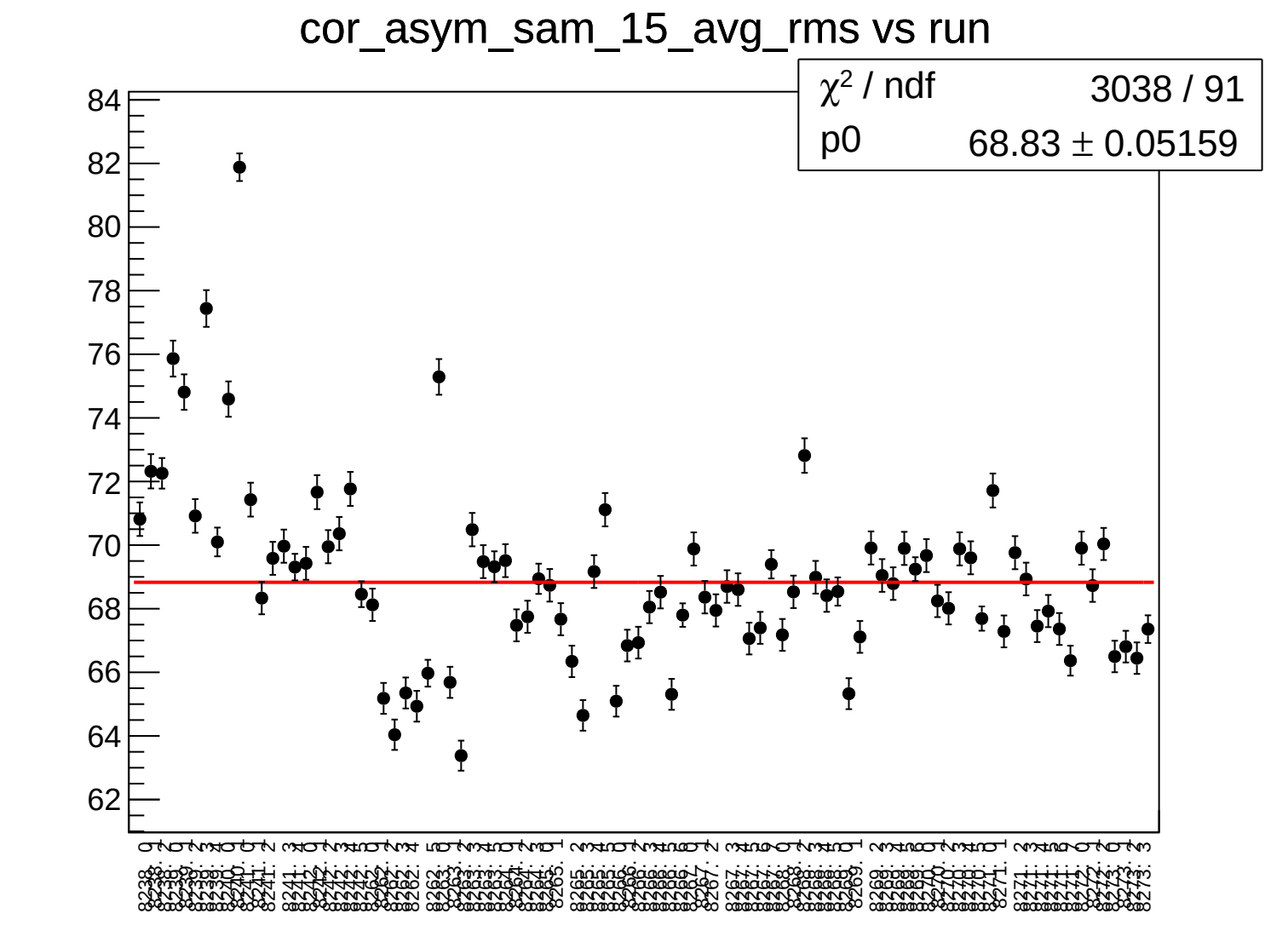

reg_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 3038 / 91
p0 68.83 ± 0.05159
84
82
80
78
76
74
72
70
68
66
64
62

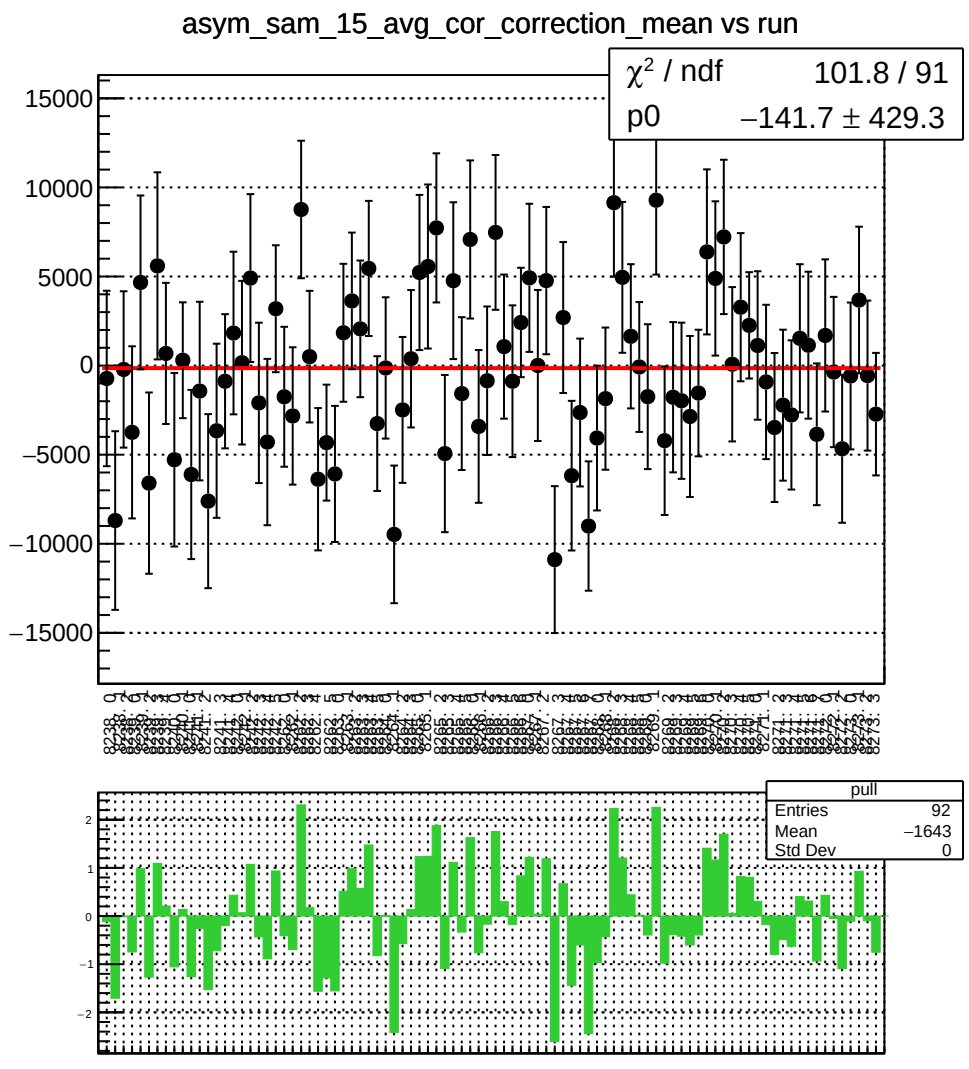

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 101.8 / 91
p0 −141.7 ± 429.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −1644
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.001607
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

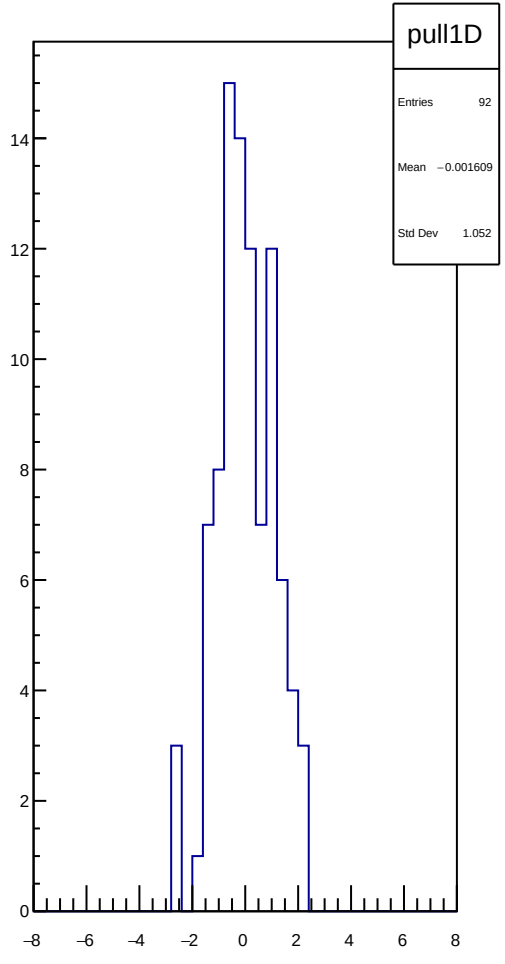

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1.007e+04 / 91
p0 404.2 ± 0.3036
500
480
460
440
420
400
380
360
340

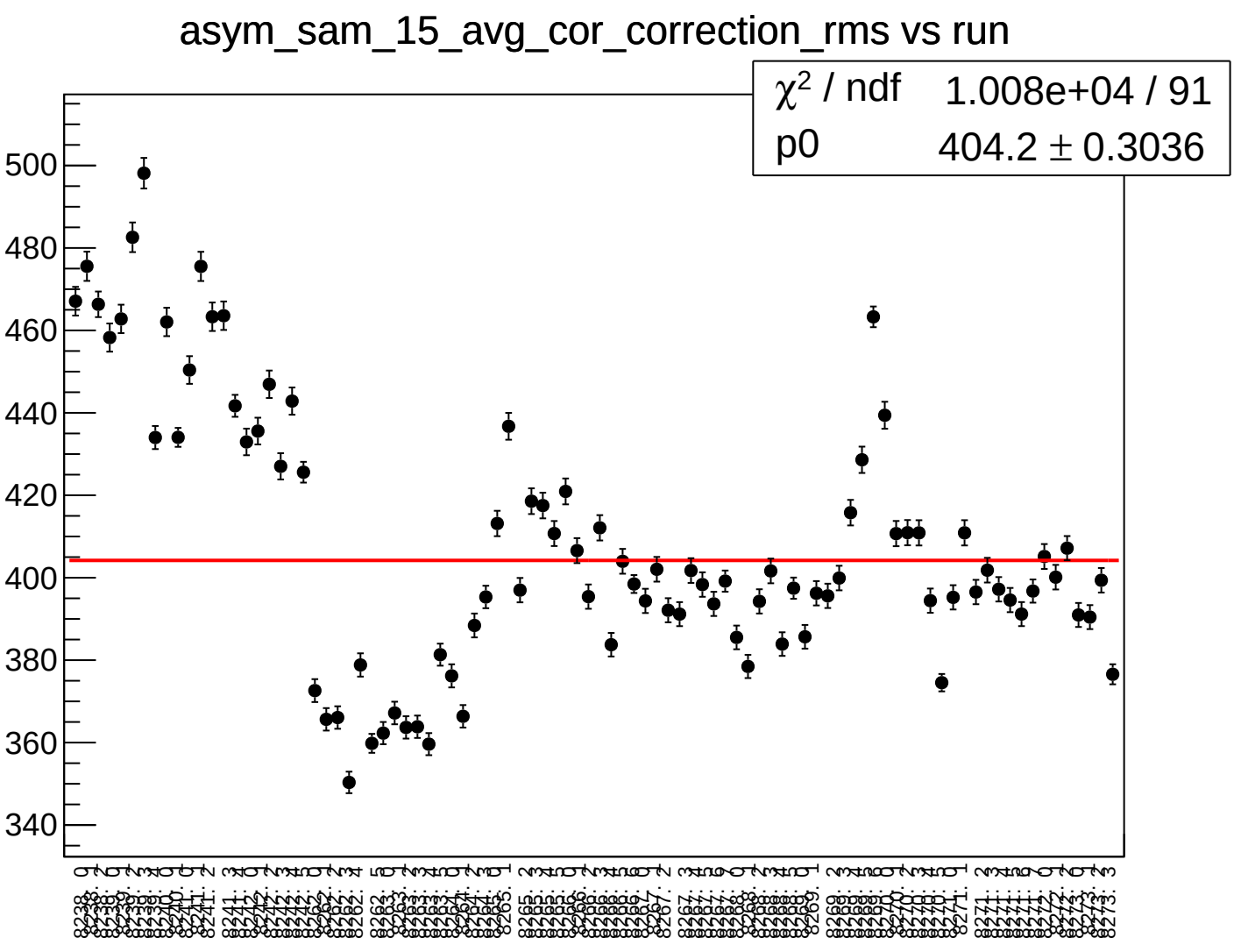

cor_asym_sam_15_avg_mean vs run
χ² / ndf 74.19 / 91
p0 104.5 ± 72.96
3000
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −294.5
Std Dev 0
2
1
0
−1
−2

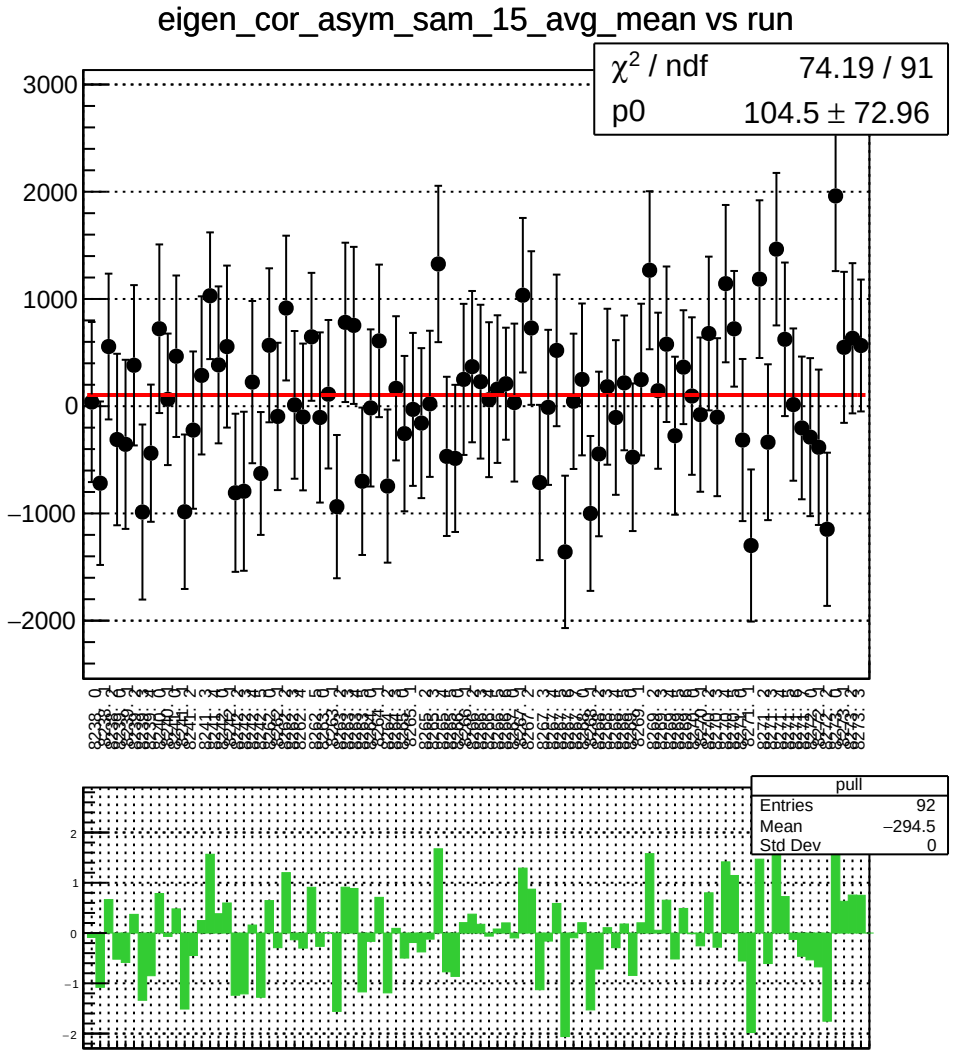

pull1D
Entries 92
Mean −0.0109
Std Dev 0.8979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

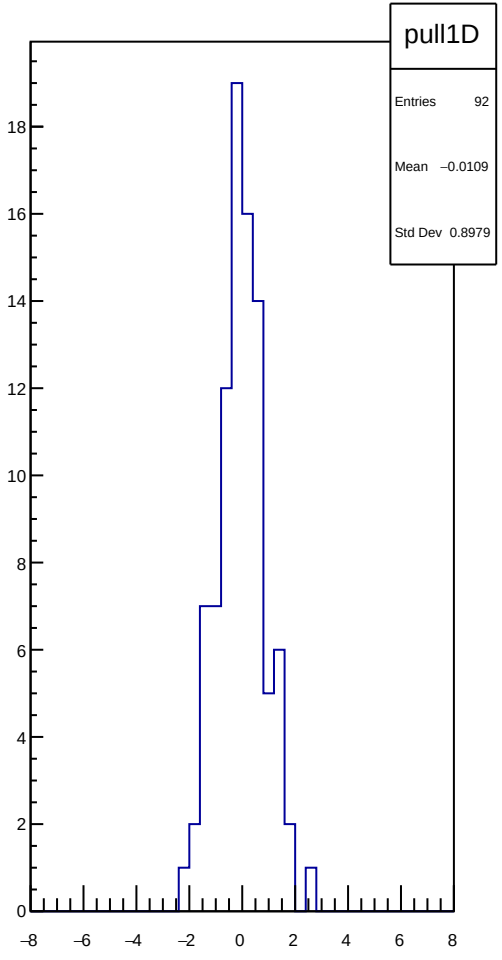

cor_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 3038 / 91
p0 68.83 ± 0.05159
84
82
80
78
76
74
72
70
68
66
64
62

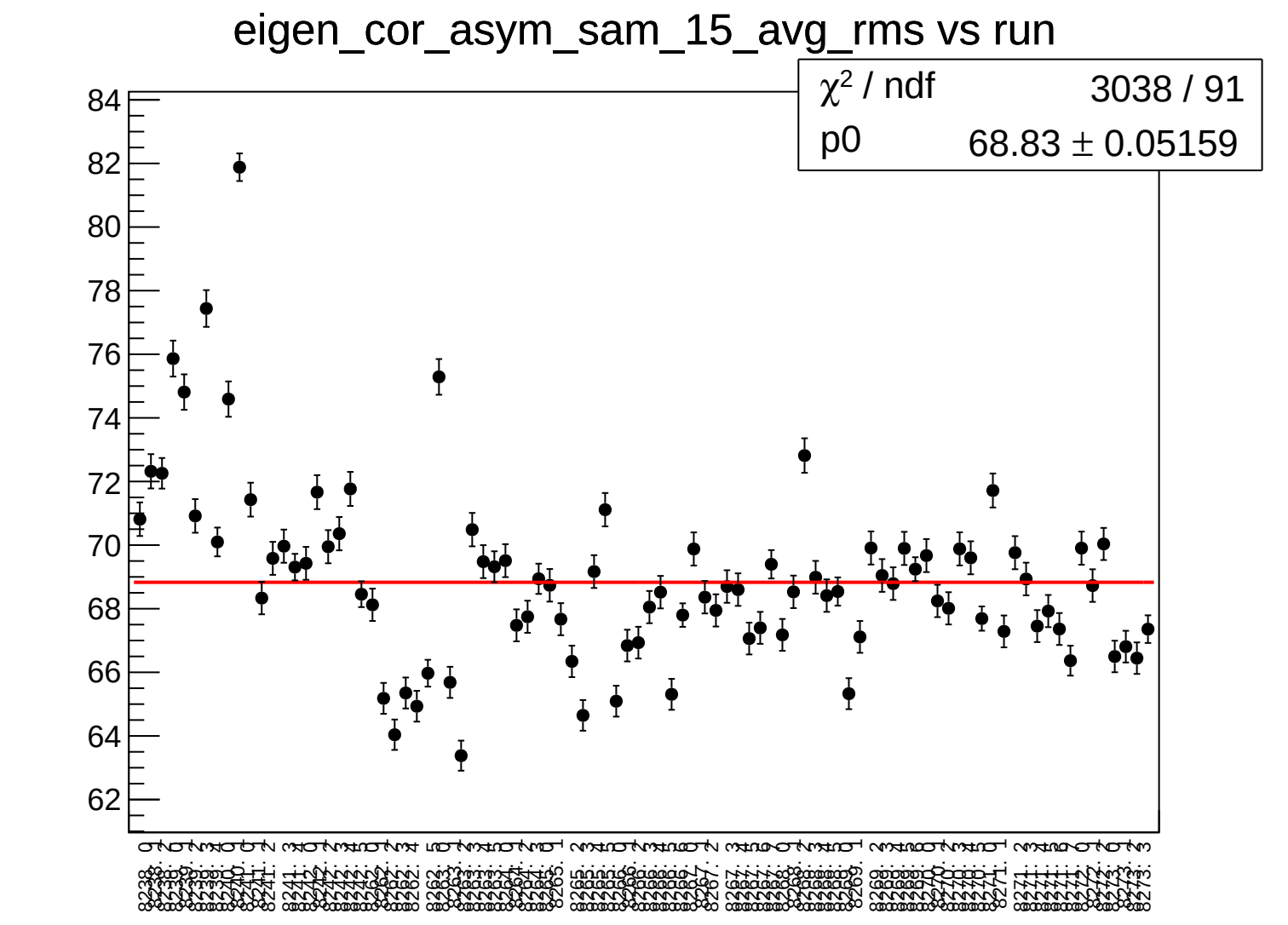

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 101.8 / 91
p0 −141.7 ± 429.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −1643
Std Dev 0
2
1
0
−1
−2

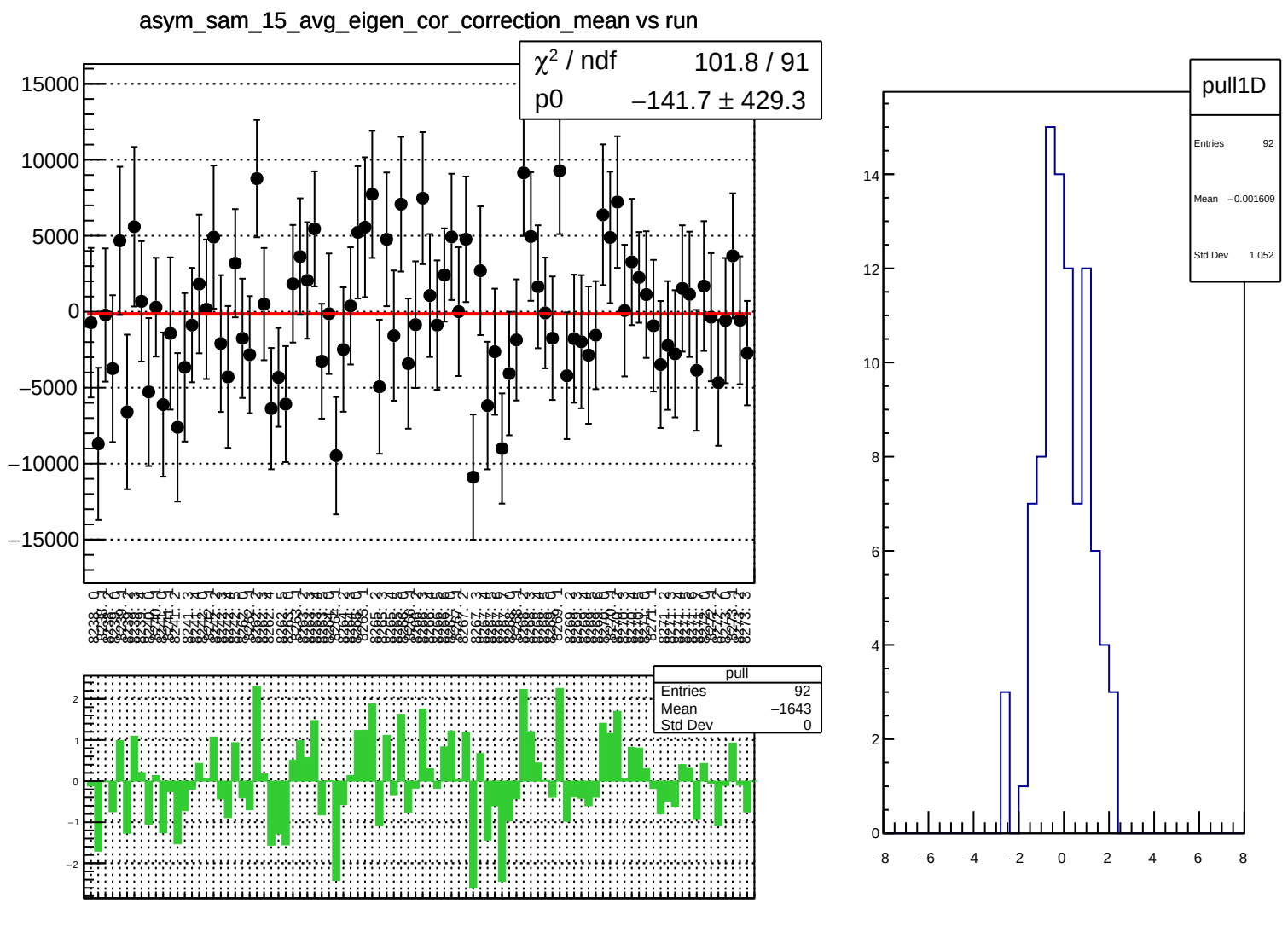

pull1D
Entries 92
Mean −0.001609
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

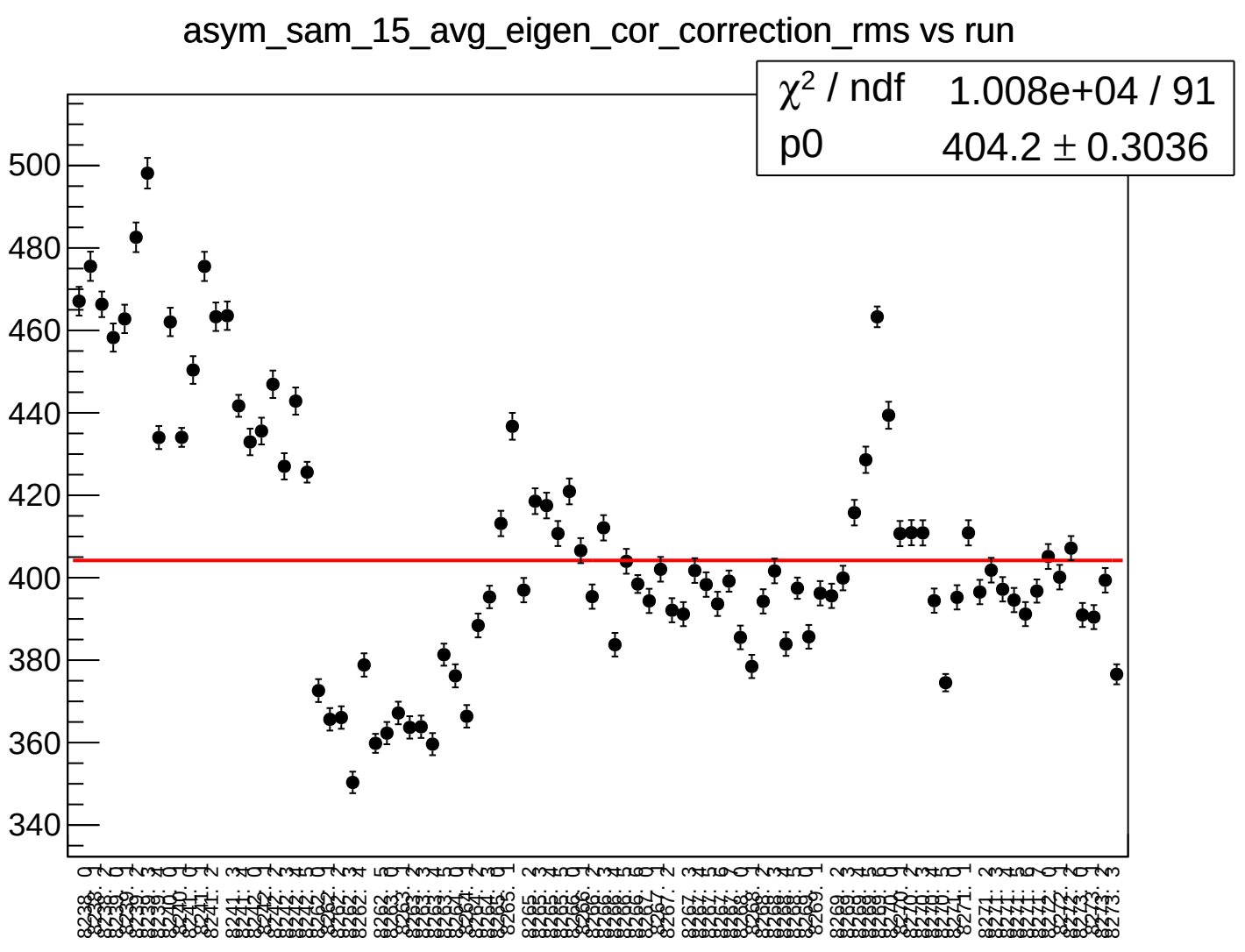

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 1.008e+04 / 91
p0 404.2 ± 0.3036
500
480
460
440
420
400
380
360
340

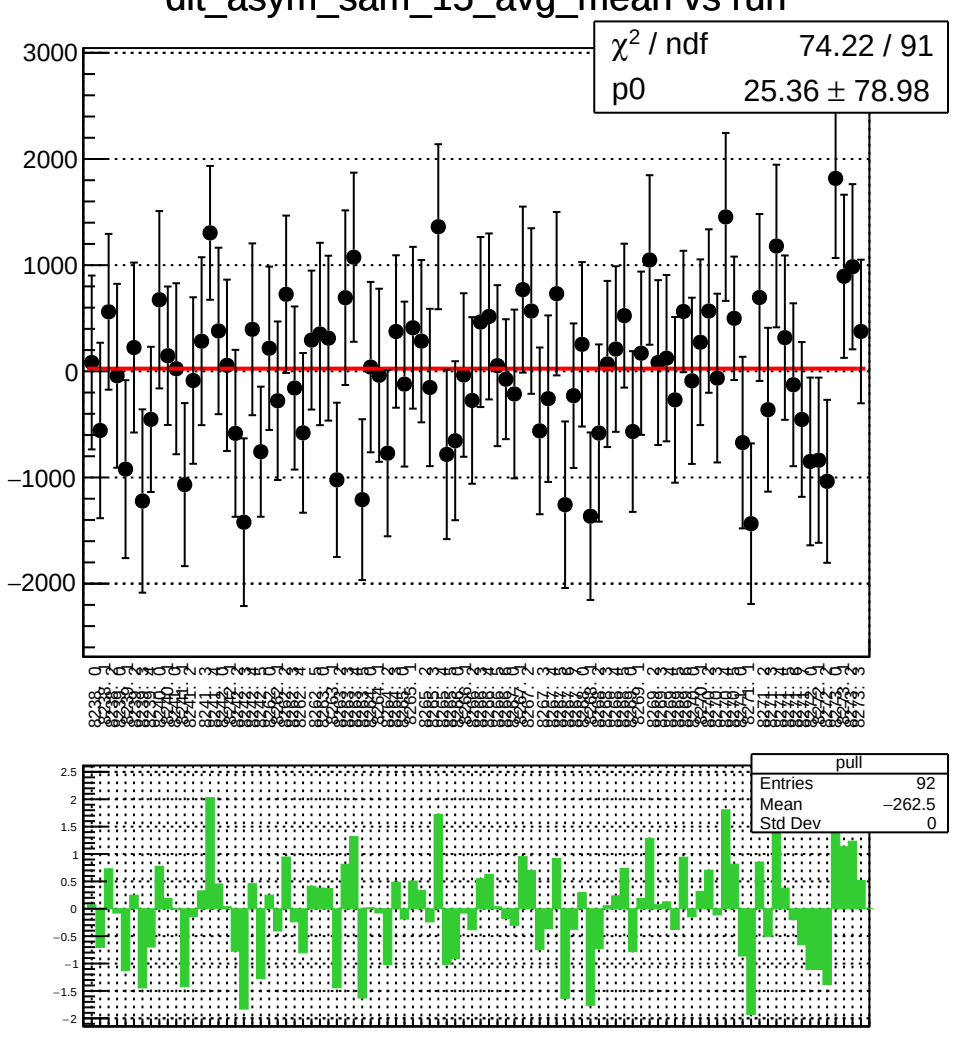

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 74.19 / 91
p0 104.5 ± 72.96
3000
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −294.5
Std Dev 0
2
1
0
−1
−2

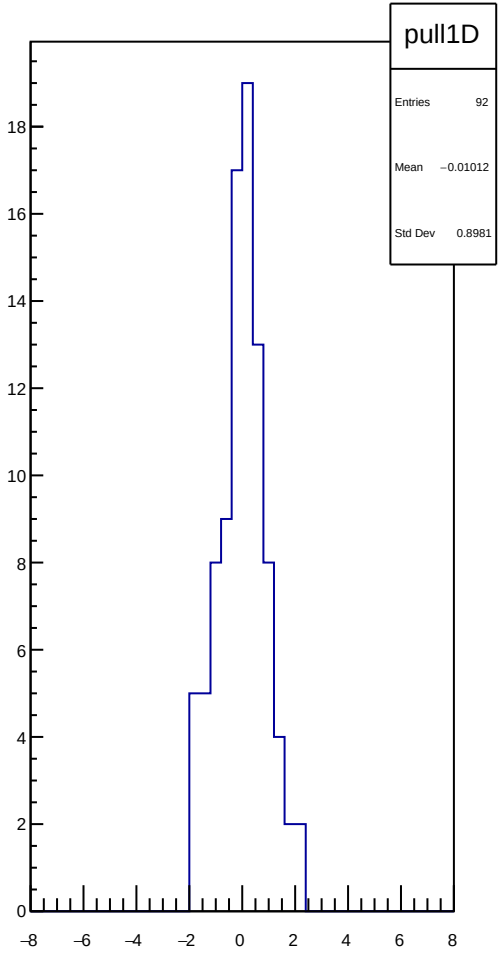

pull1D
Entries 92
Mean −0.0109
Std Dev 0.8979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

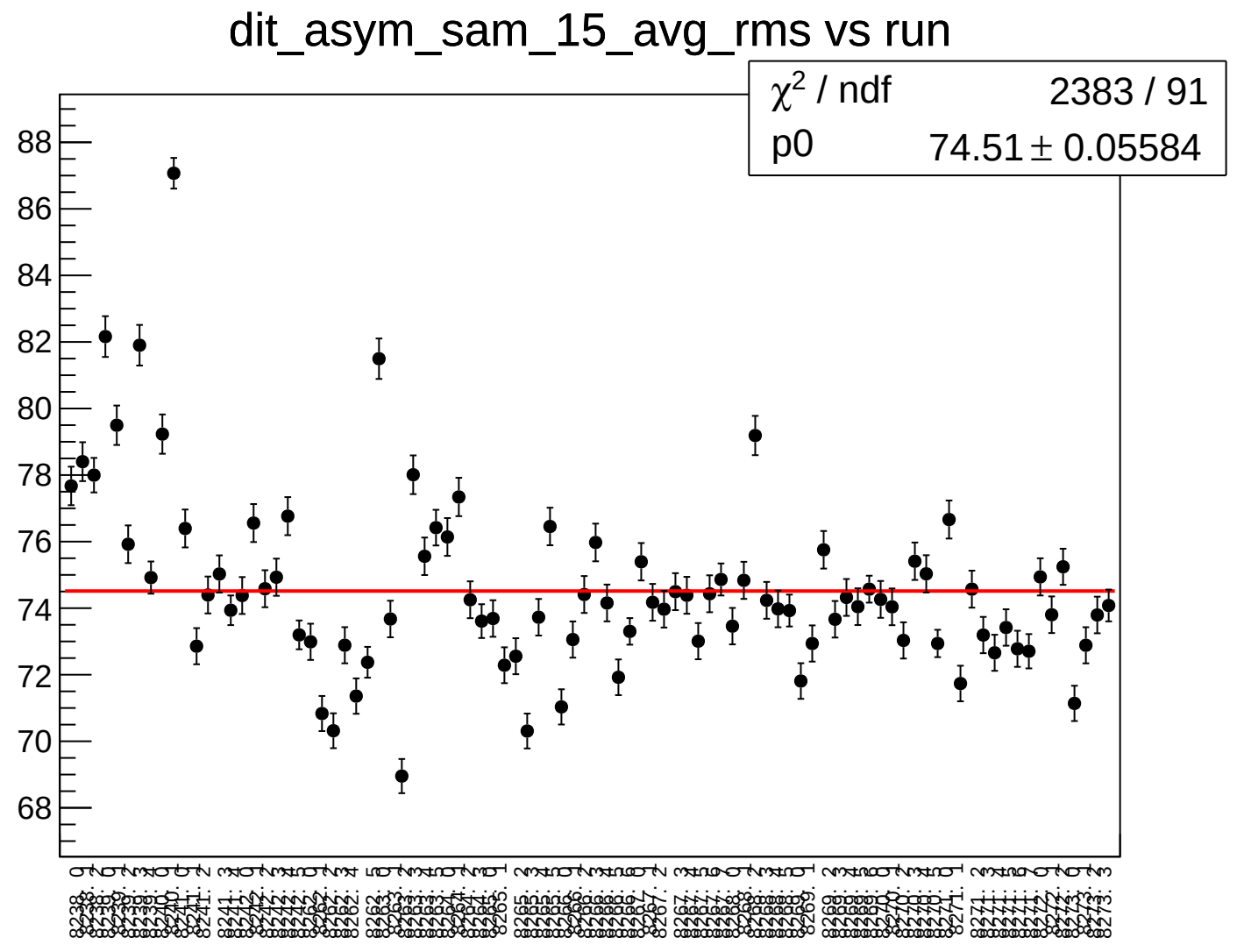

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 3038 / 91
p0 68.83 ± 0.05159
84
82
80
78
76
74
72
70
68
66
64
62

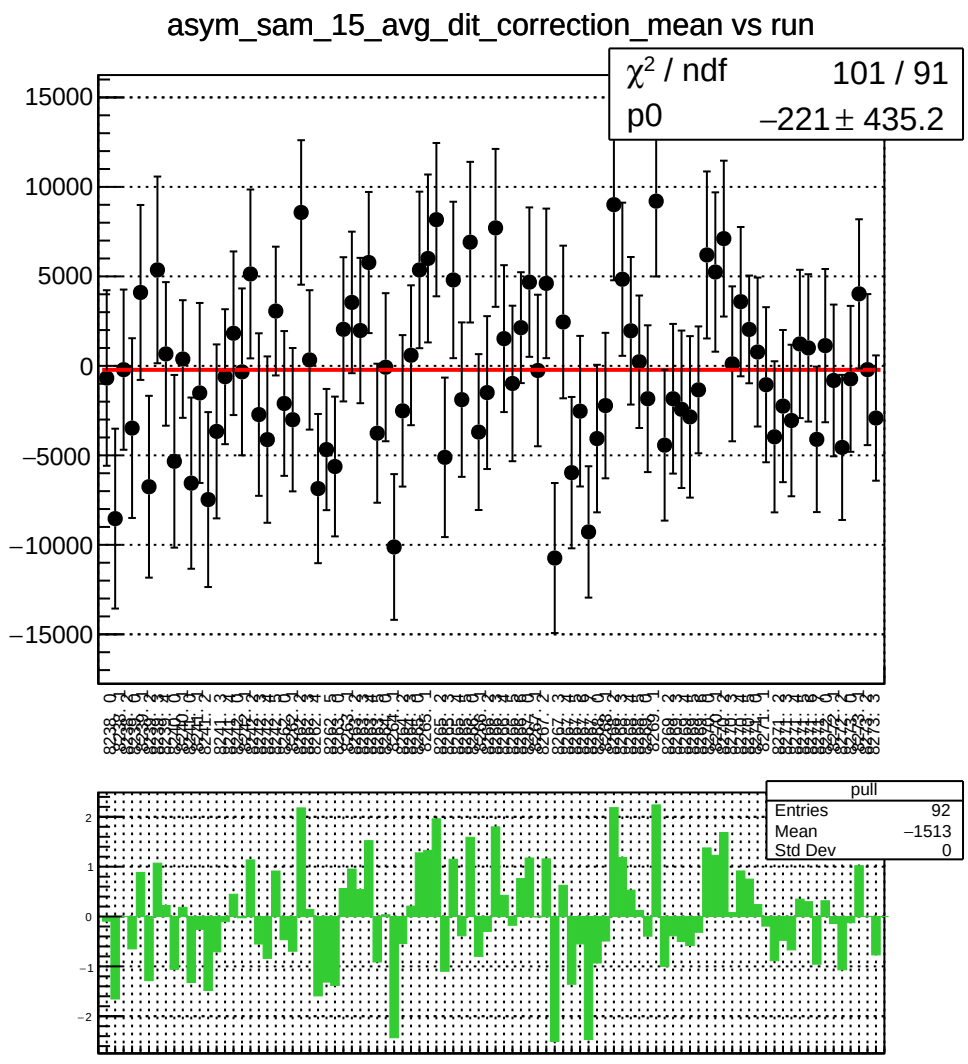

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 101.8 / 91
p0 −141.7 ± 429.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −1643
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.001609
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

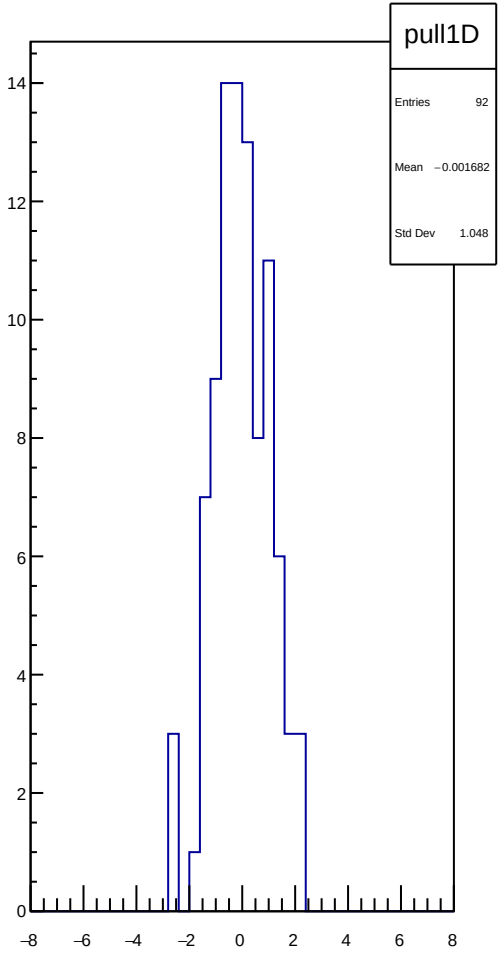

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.008e+04 / 91
p0 404.2 ± 0.3036
500
480
460
440
420
400
380
360
340

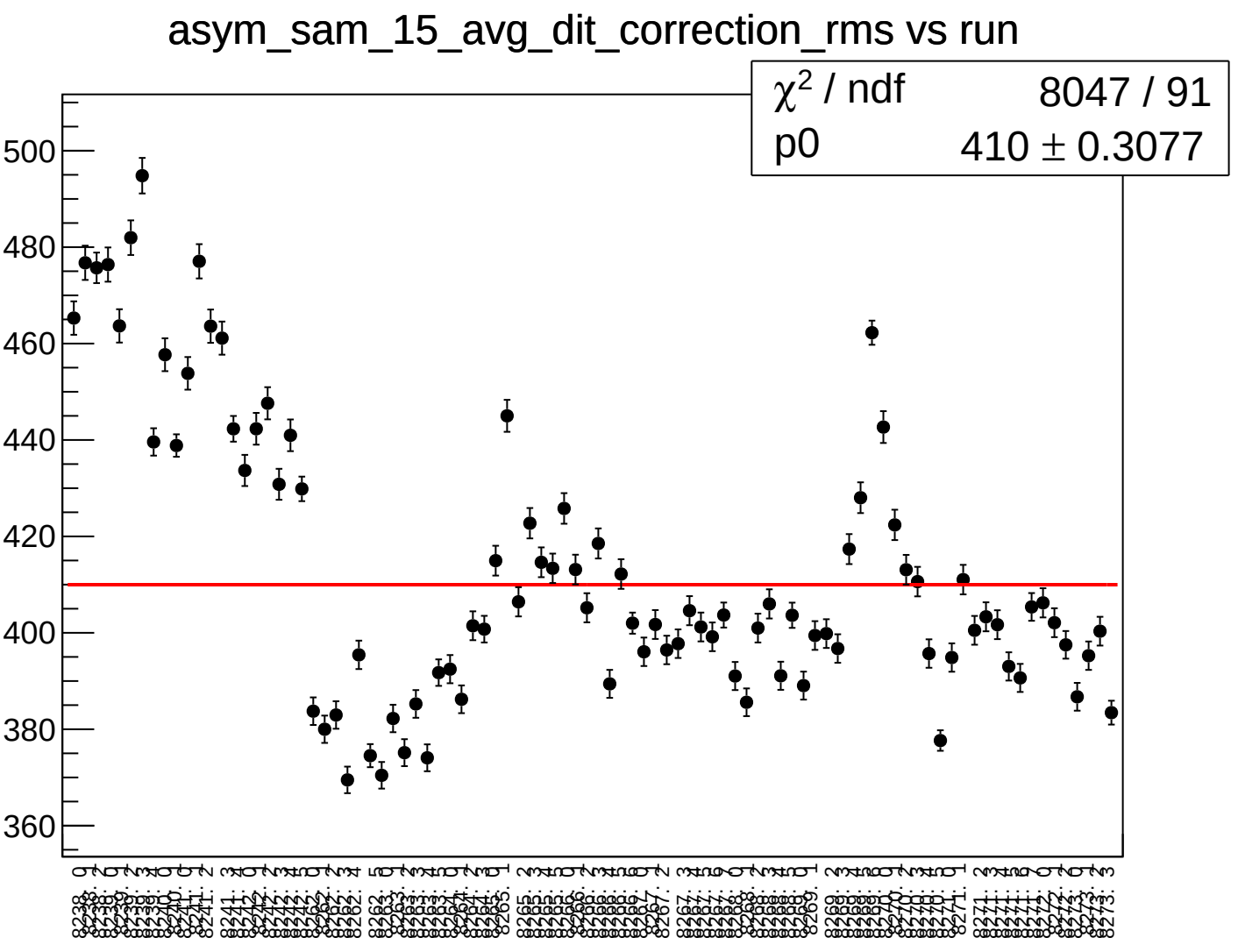

dit_asym_sam_15_avg_mean vs run
$\chi^2$ / ndf 74.22 / 91
p0 25.36 ± 78.98
pull
Entries 92
Mean −262.5
Std Dev 0

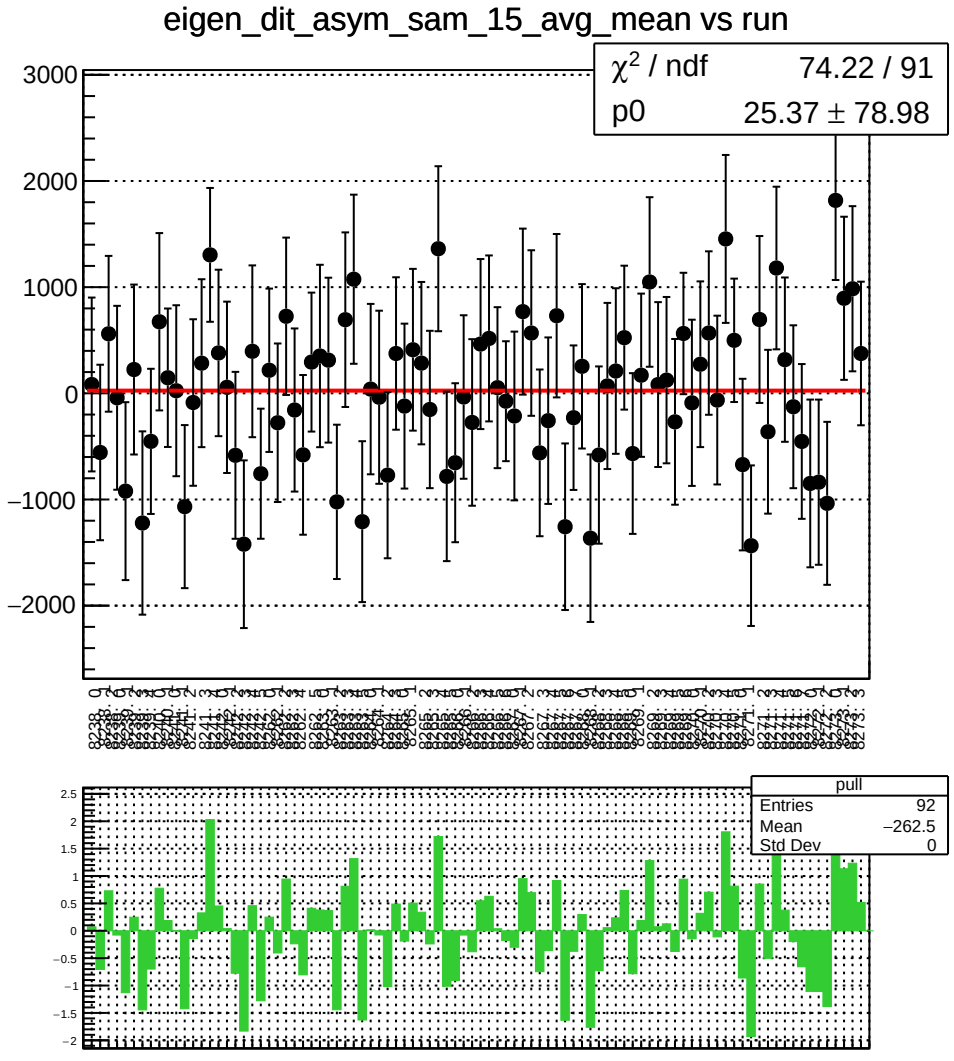

pull1D
Entries 92
Mean −0.01012
Std Dev 0.8981

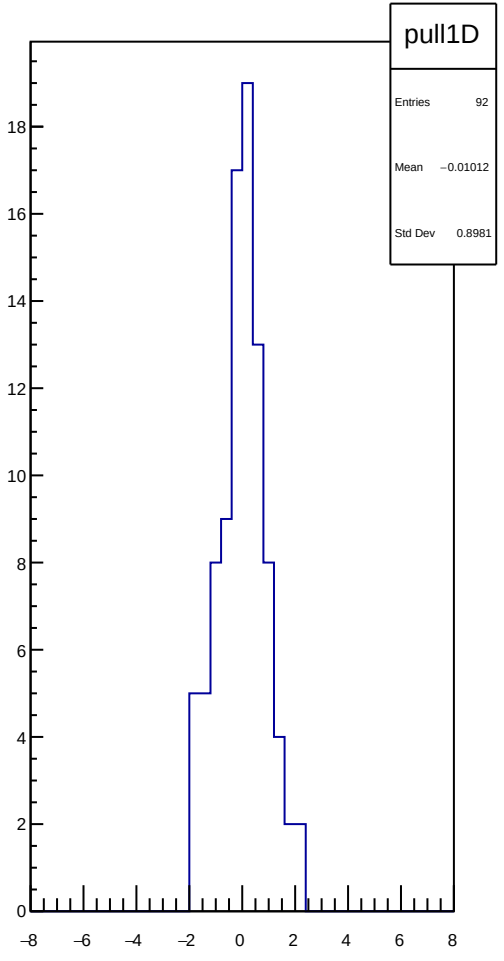

dit_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 2383 / 91
p0 74.51 ± 0.05584
88
86
84
82
80
78
76
74
72
70
68

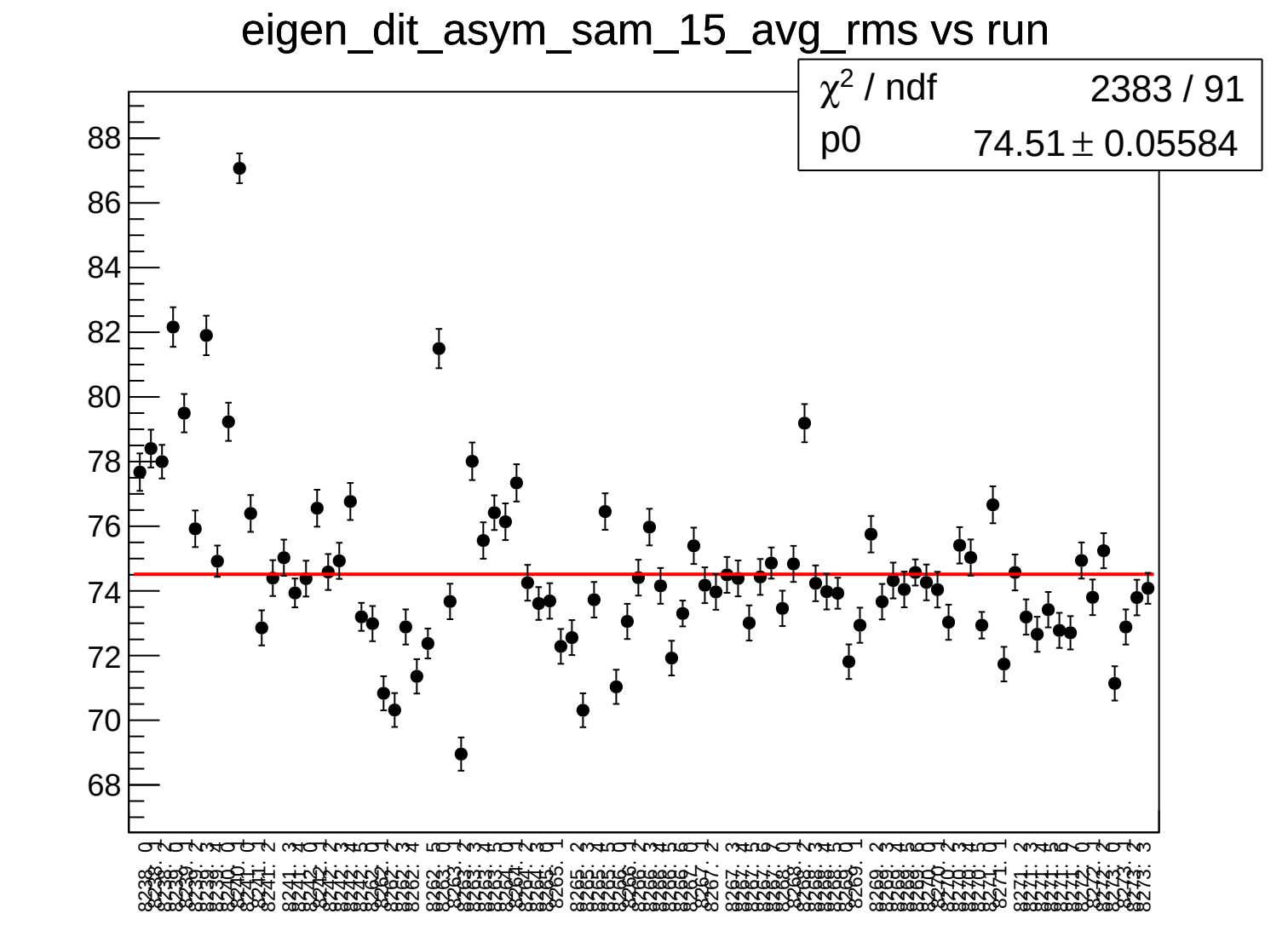

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 101 / 91
p0 −221 ± 435.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −1513
Std Dev 0
2
1
0
−1
−2

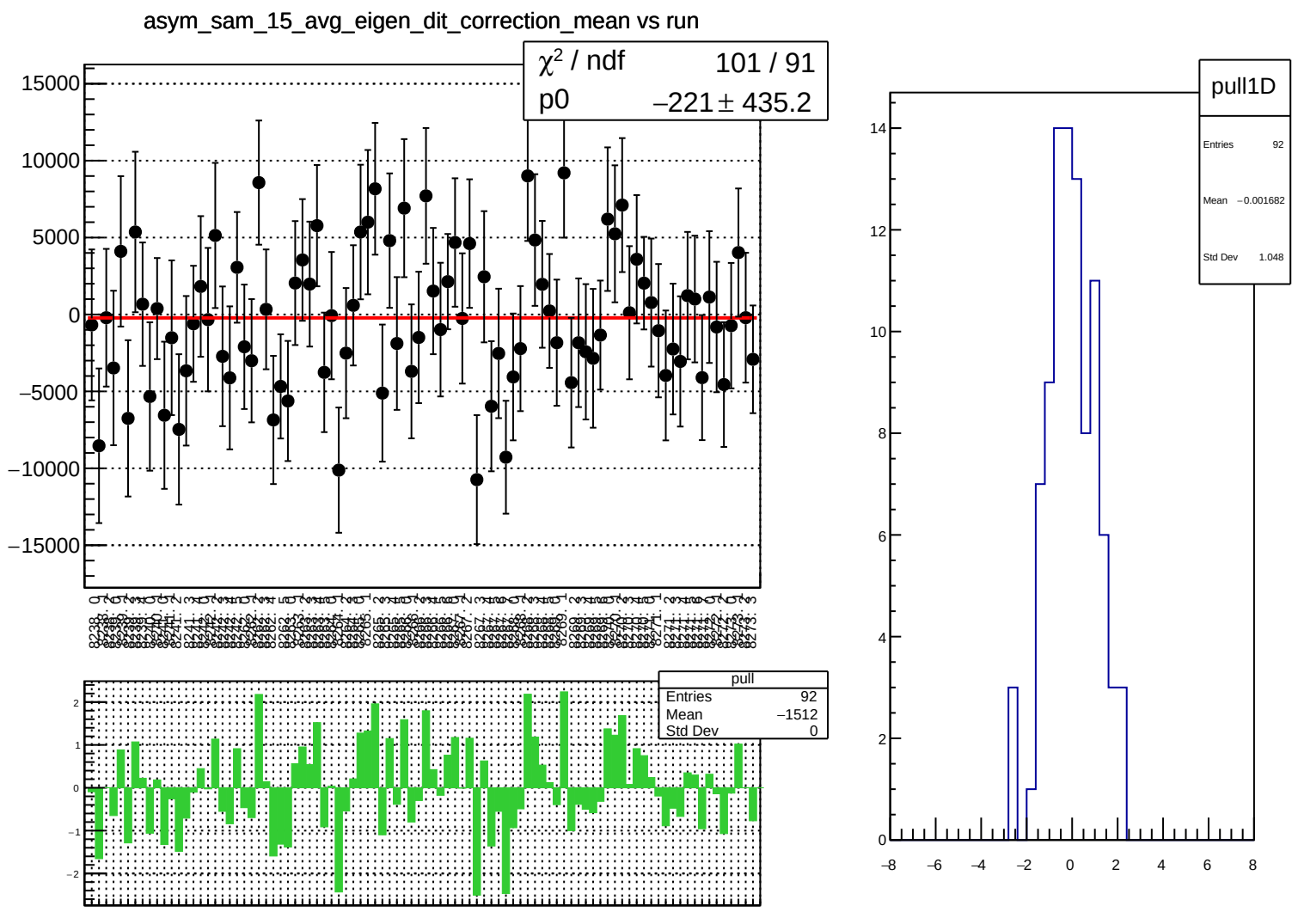

pull1D
Entries 92
Mean −0.001682
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

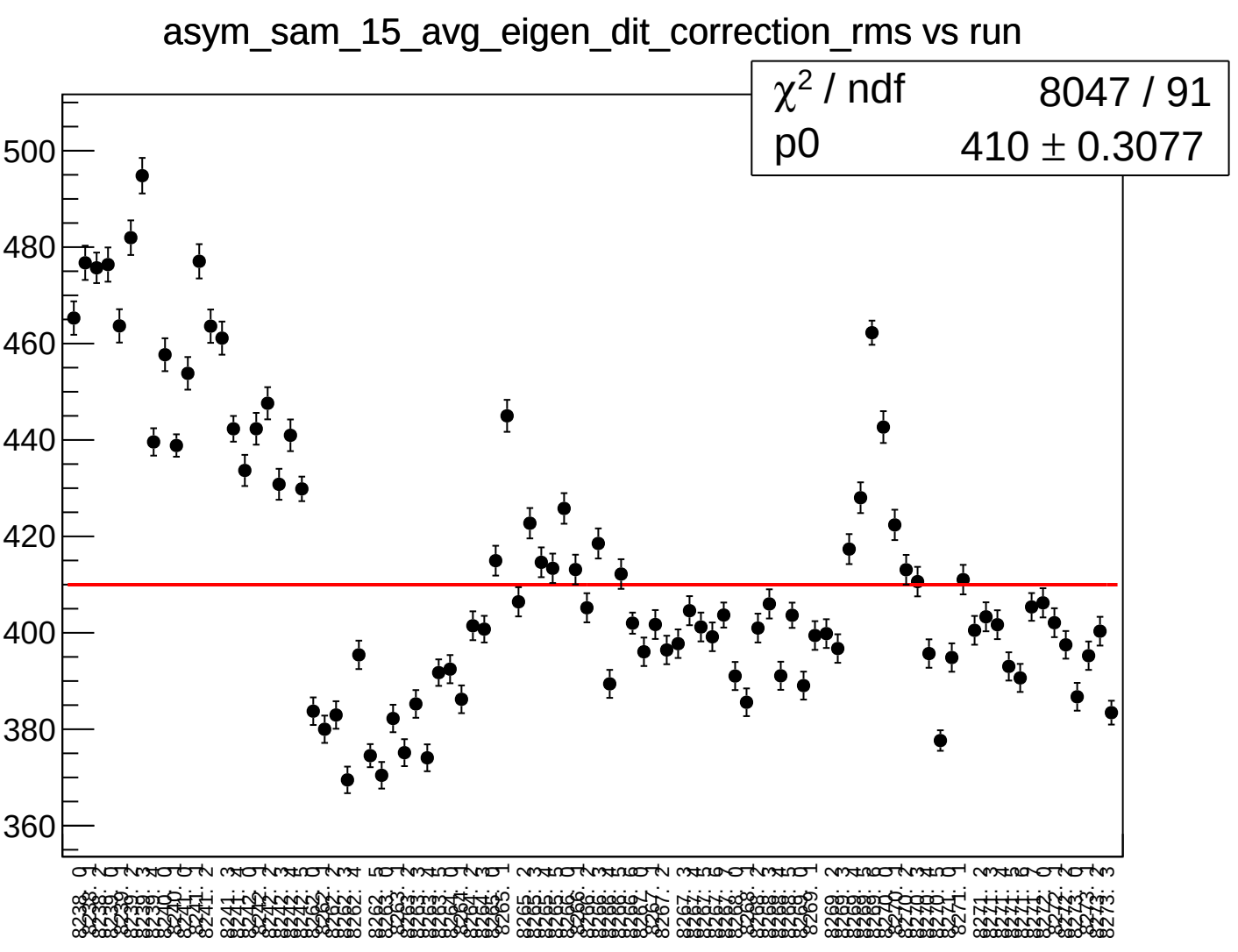

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 8047 / 91
p0 410 ± 0.3077
500
480
460
440
420
400
380
360

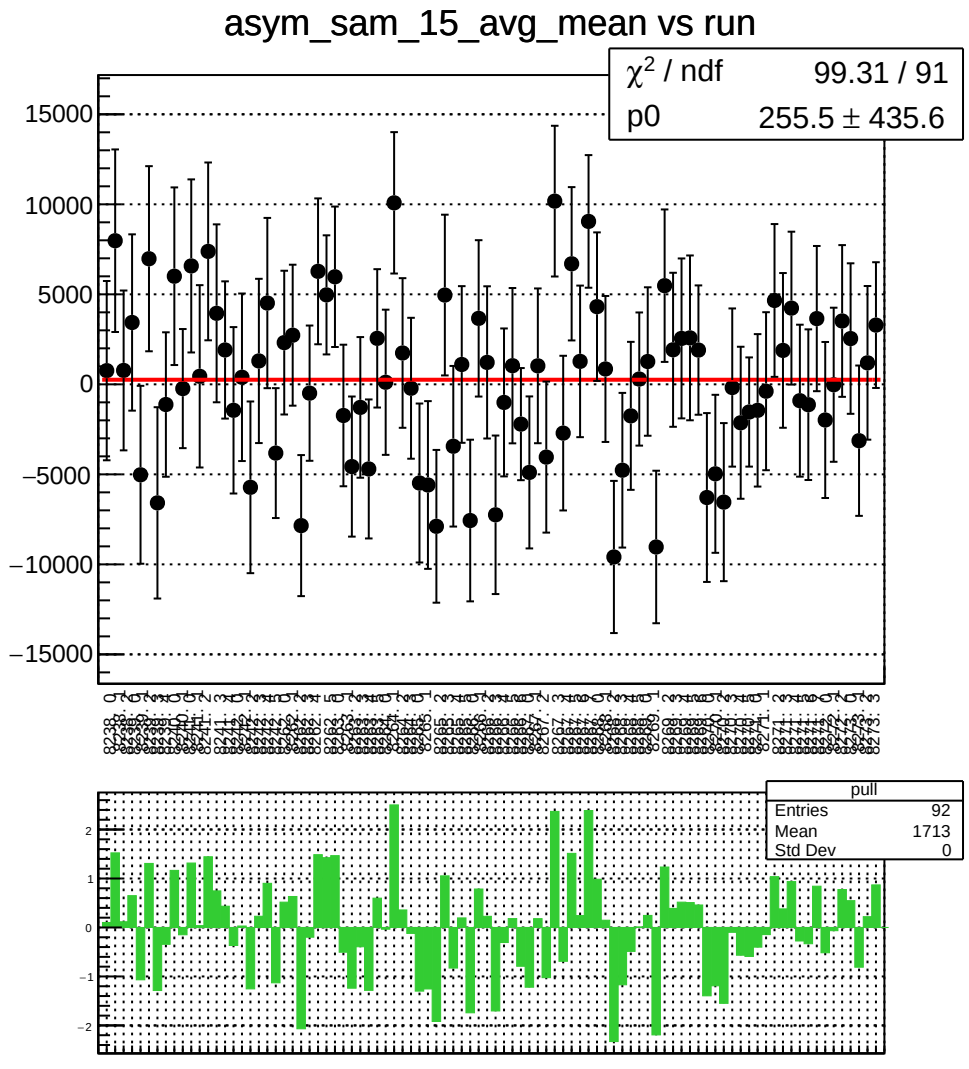

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 74.22 / 91
p0 25.37 ± 78.98
3000
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −262.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

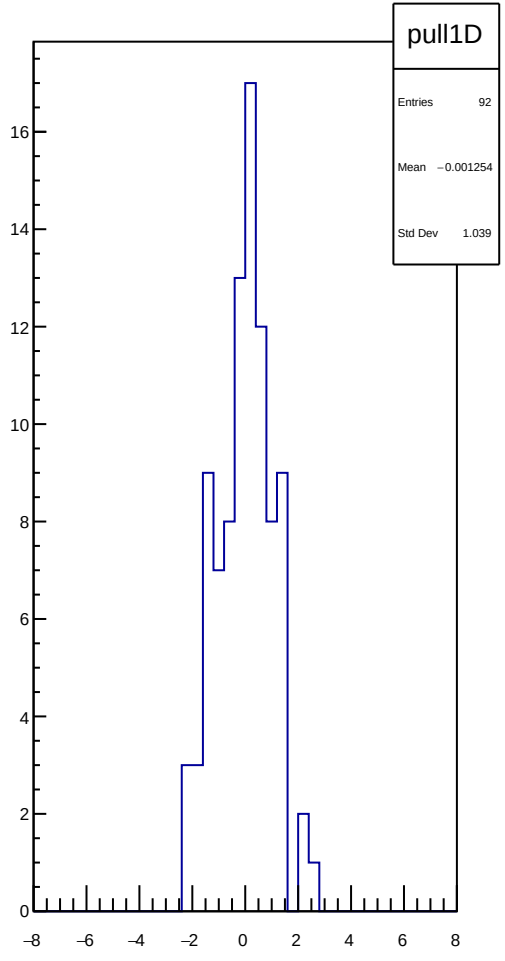

pull1D
Entries 92
Mean −0.01012
Std Dev 0.8981
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

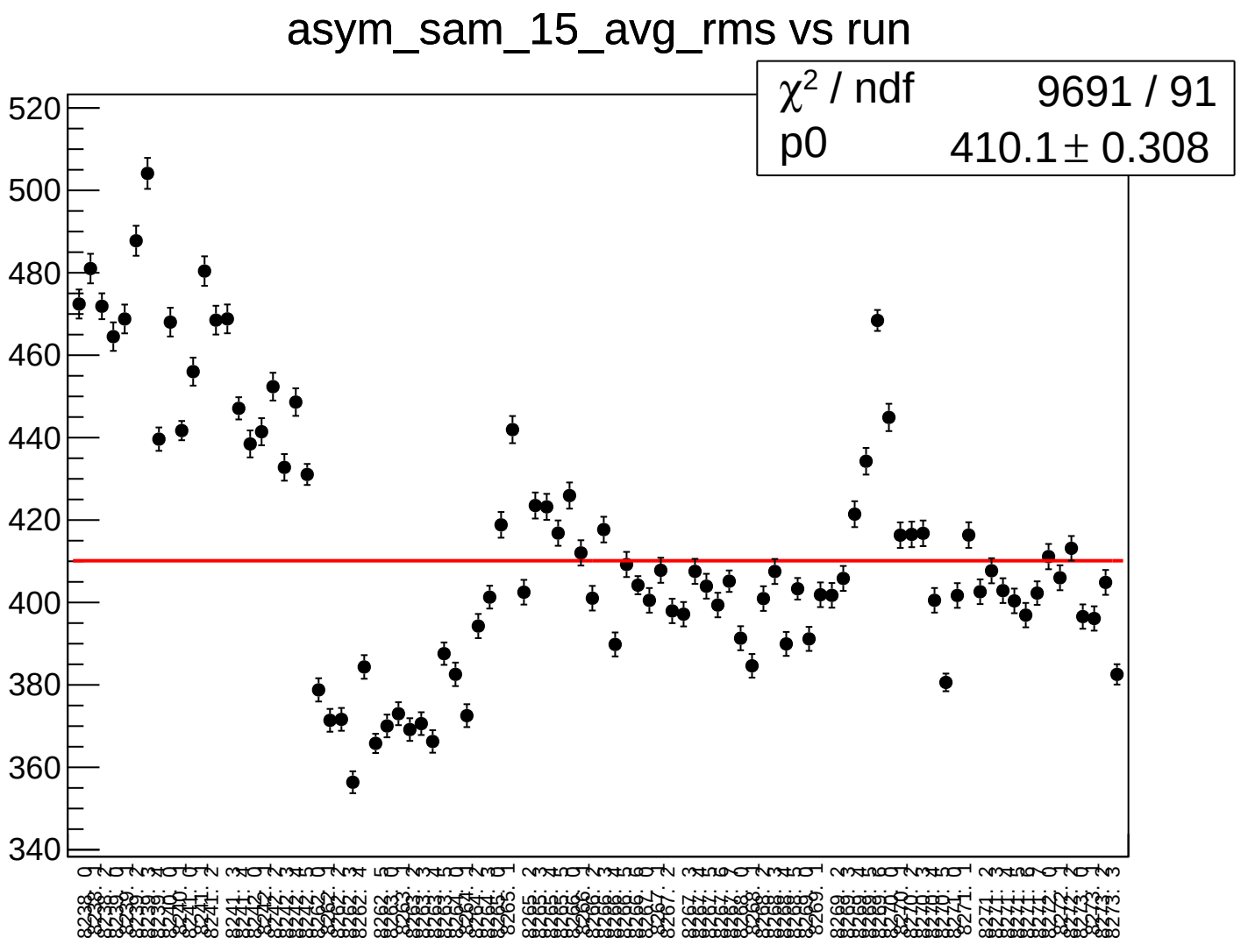

eigen_dit_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 2383 / 91
p0 74.51 ± 0.05584
88
86
84
82
80
78
76
74
72
70
68

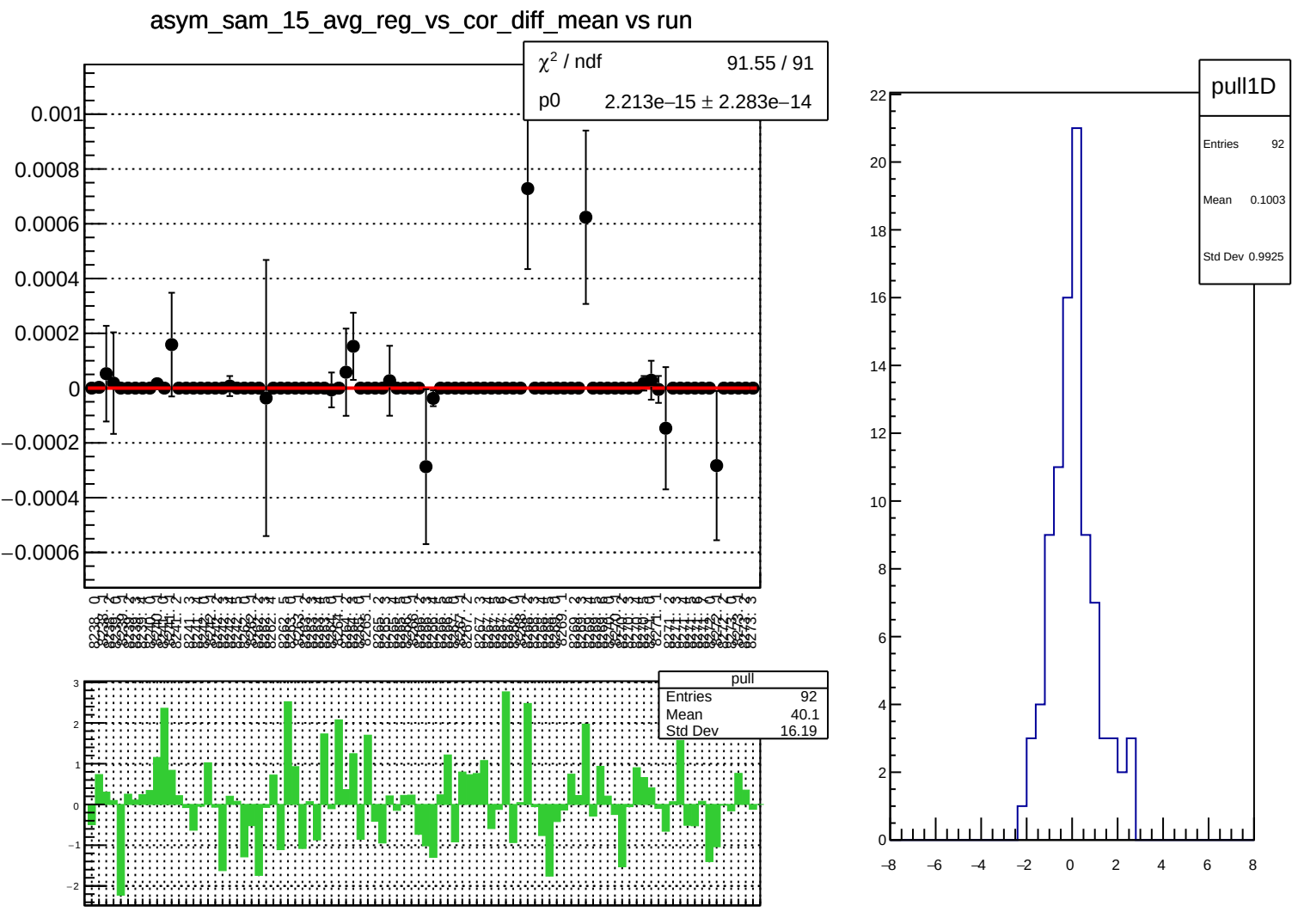

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 101 / 91
p0 −221 ± 435.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −1512
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.001682
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

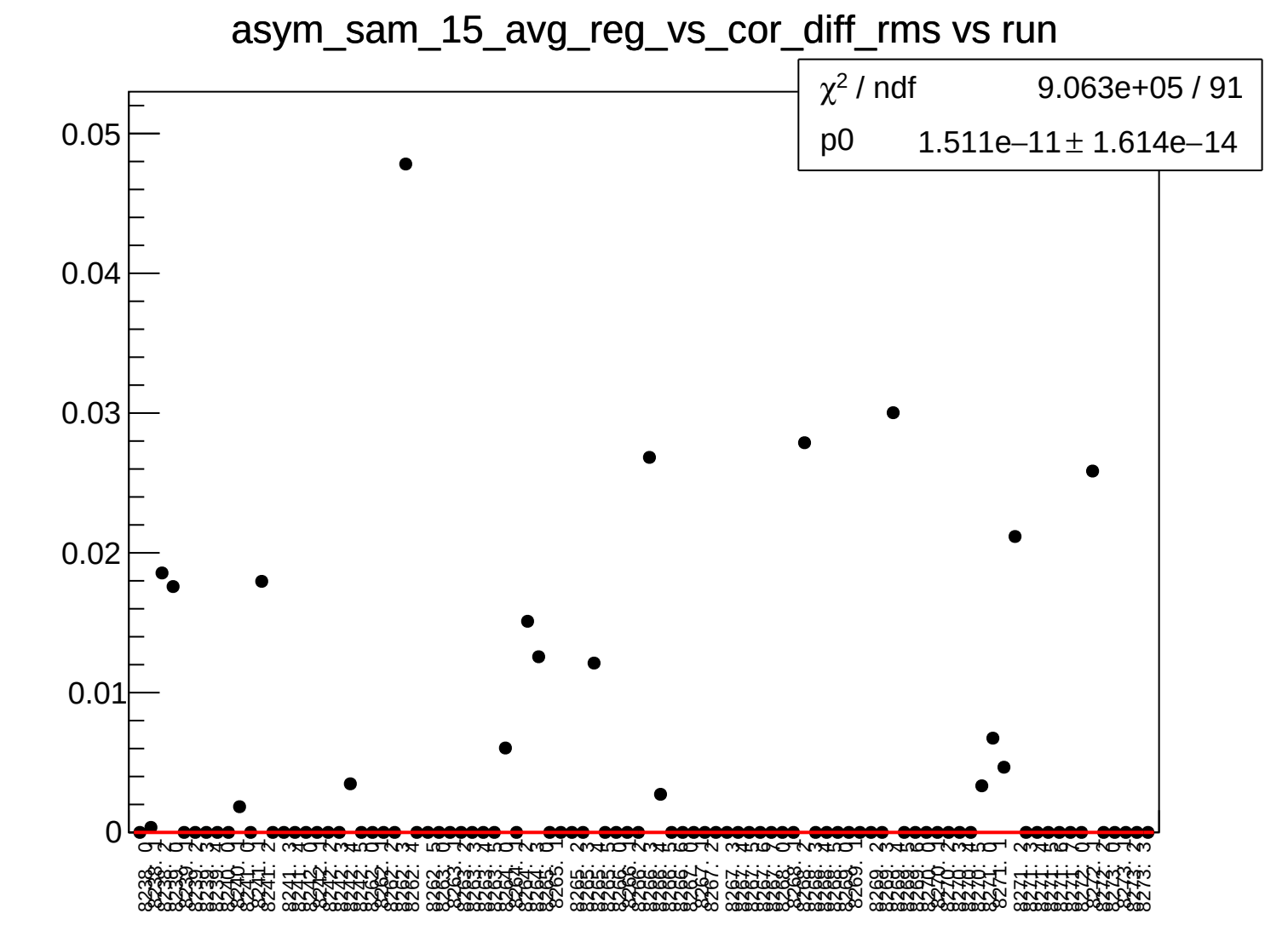

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 8047 / 91
p0 410 ± 0.3077
500
480
460
440
420
400
380
360

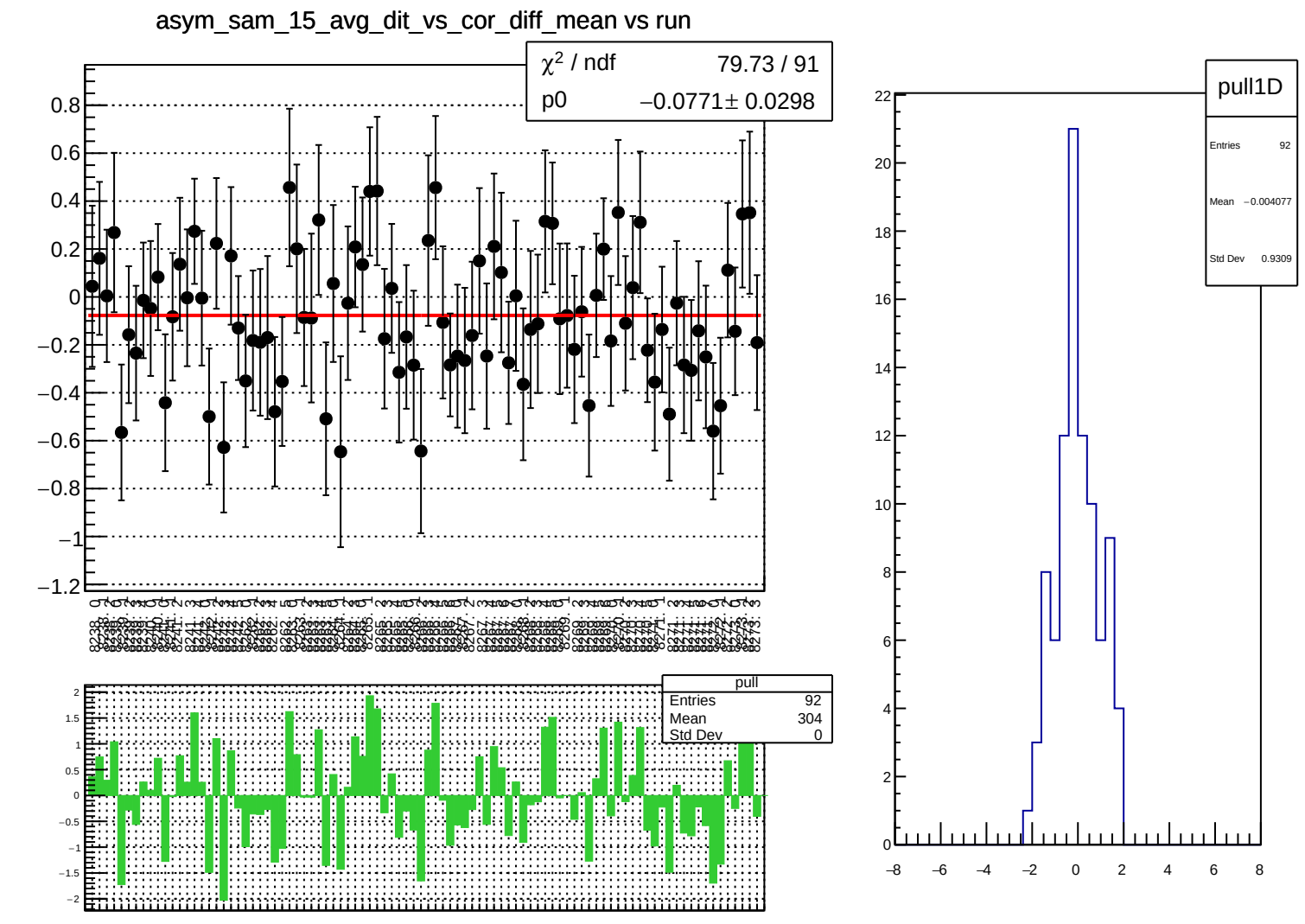

asym_sam_15_avg_mean vs run
χ² / ndf 99.31 / 91
p0 255.5 ± 435.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 1713
Std Dev 0
2
1
0
−1
−2

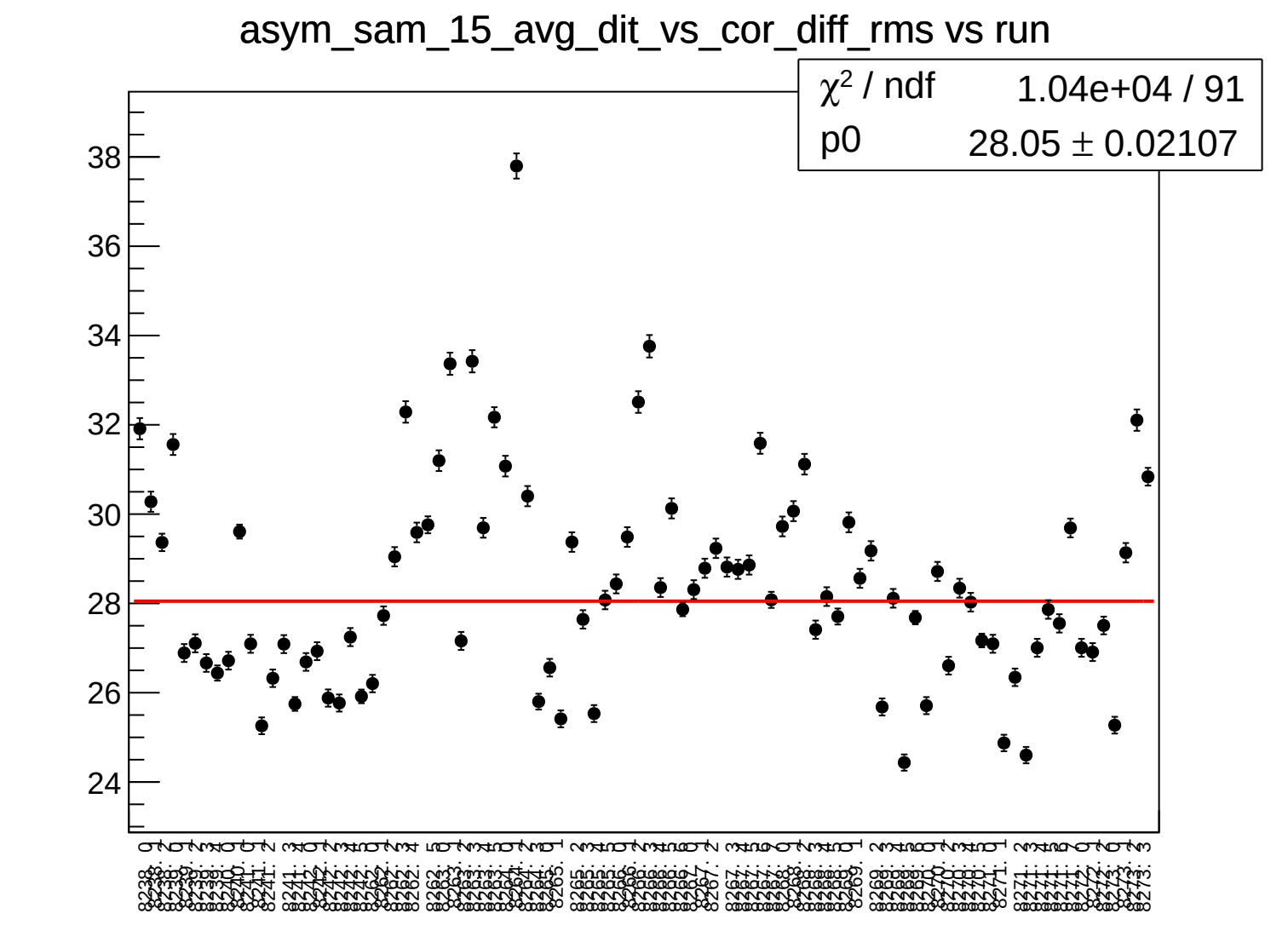

pull1D
Entries 92
Mean −0.001254
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

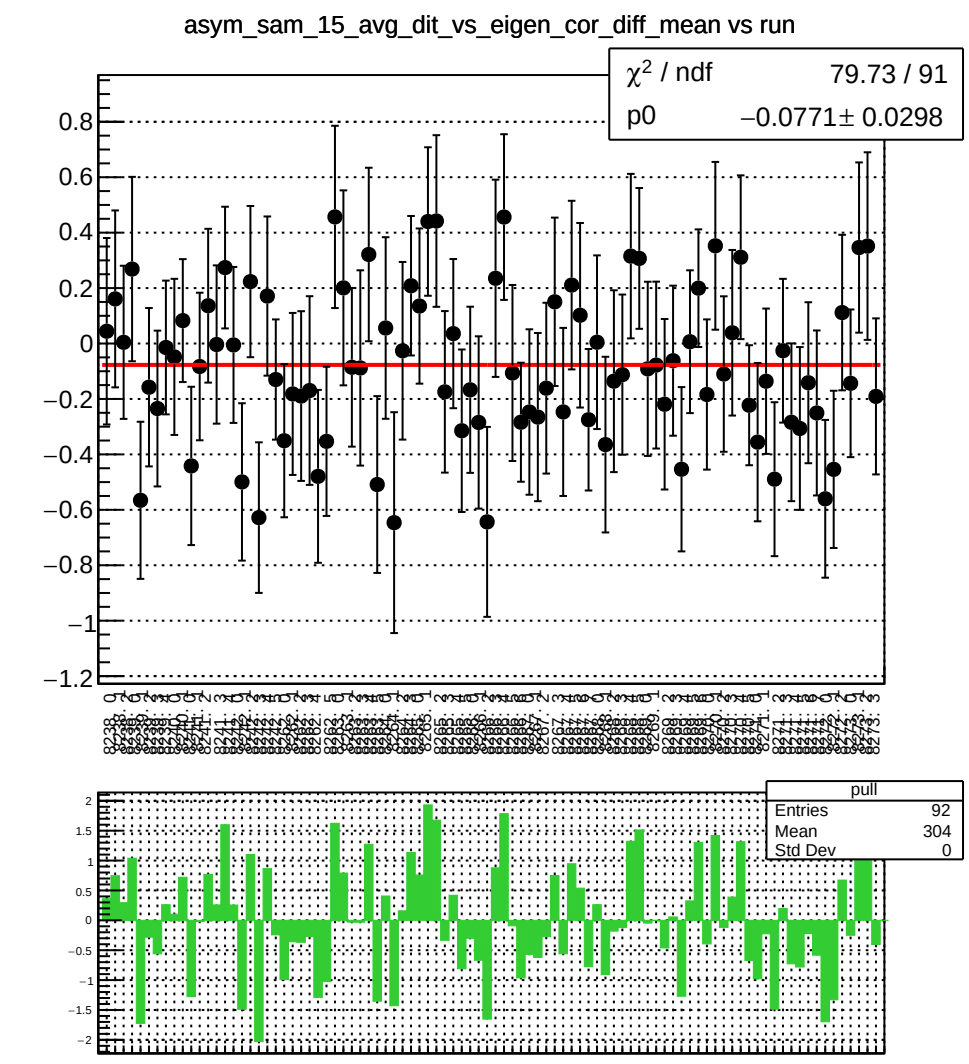

asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 9691 / 91
p0 410.1 ± 0.308
520
500
480
460
440
420
400
380
360
340

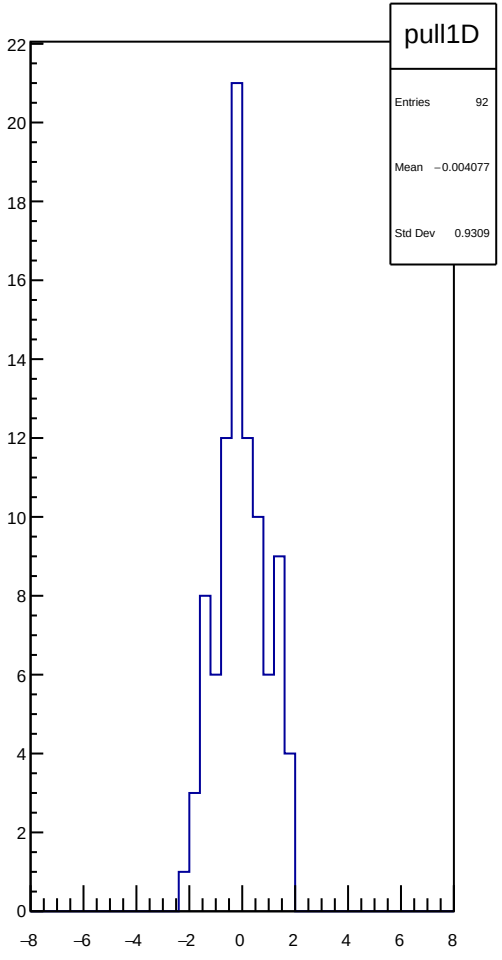

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.55 / 91
p0 2.213e−15 ± 2.283e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 92
Mean 40.1
Std Dev 16.19
pull1D
Entries 92
Mean 0.1003
Std Dev 0.9925
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

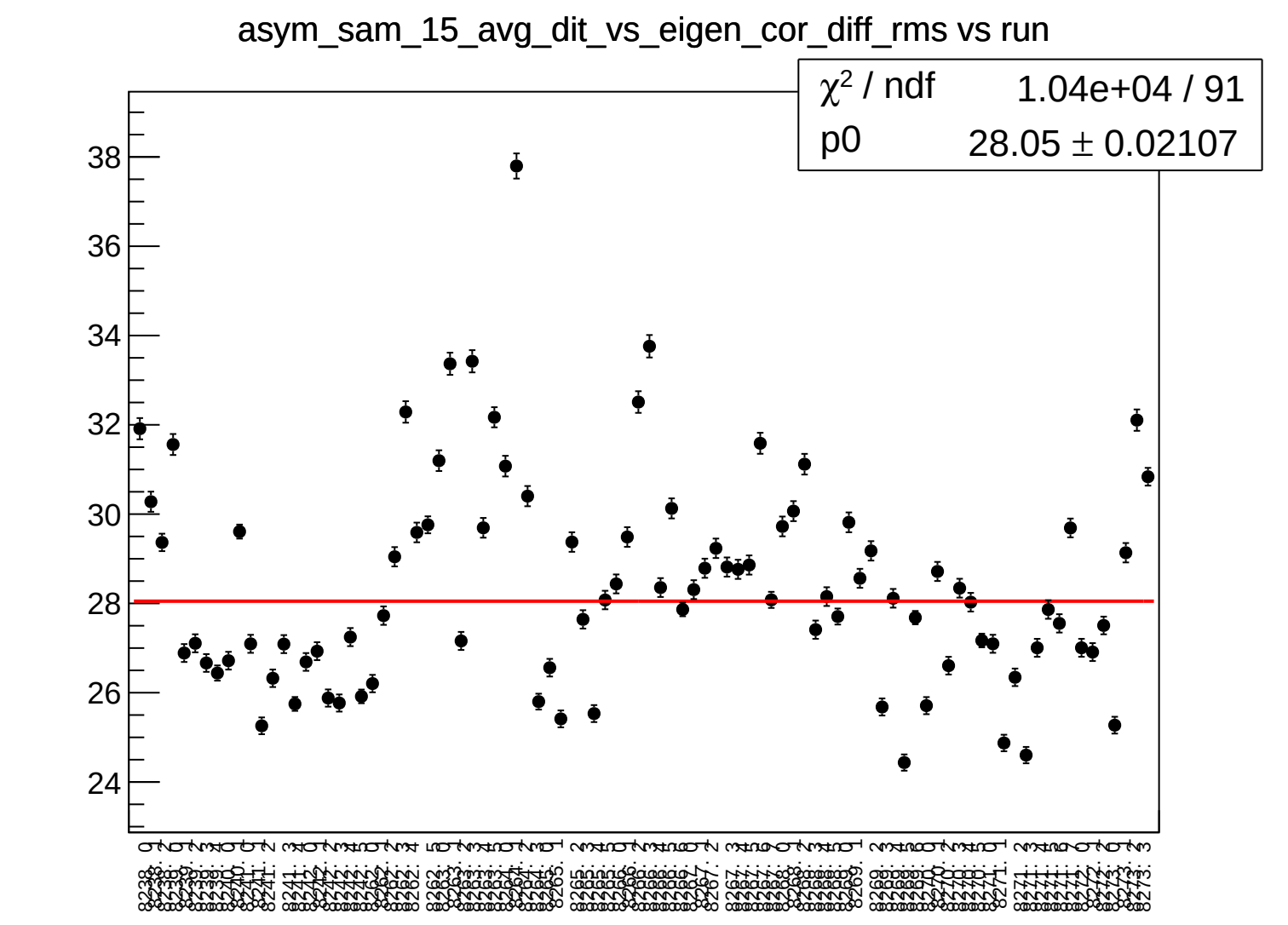

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.063e+05 / 91
p0 1.511e−11 ± 1.614e−14
0.05
0.04
0.03
0.02
0.01
0

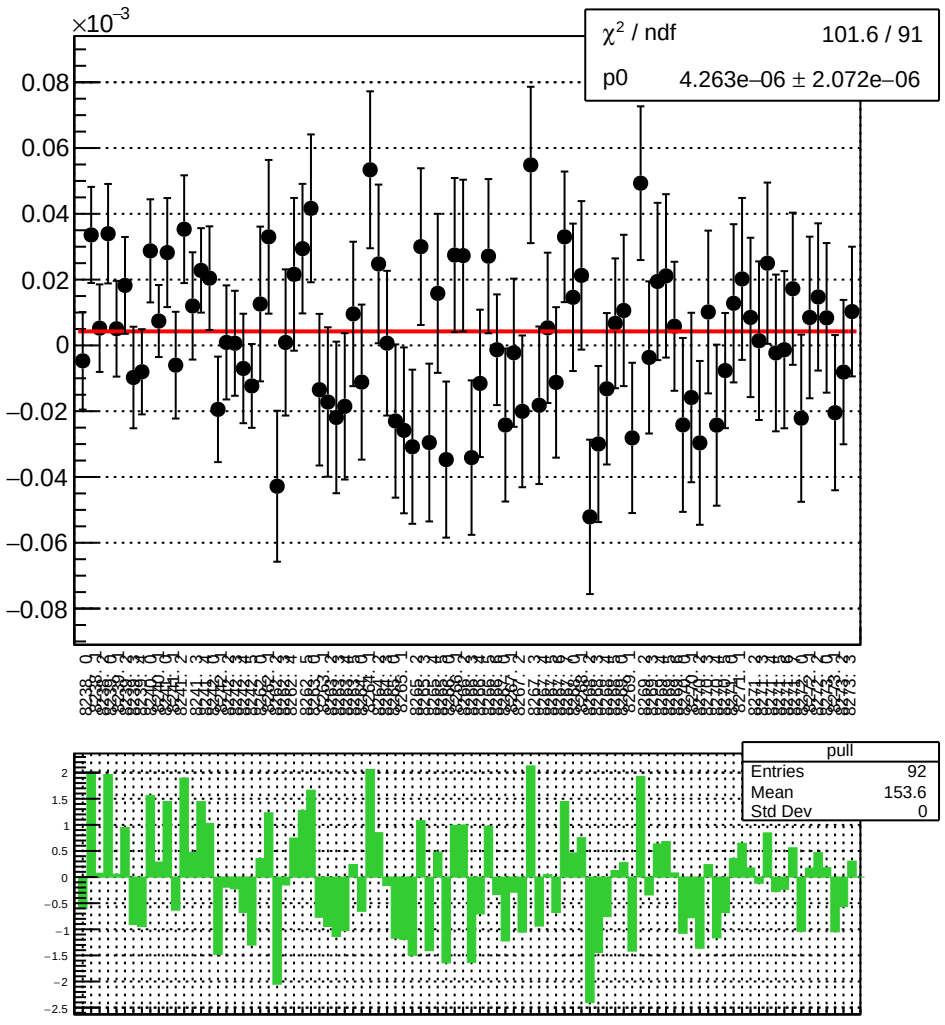

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.73 / 91
p0 −0.0771± 0.0298
pull
Entries 92
Mean 304
Std Dev 0
pull1D
Entries 92
Mean −0.004077
Std Dev 0.9309

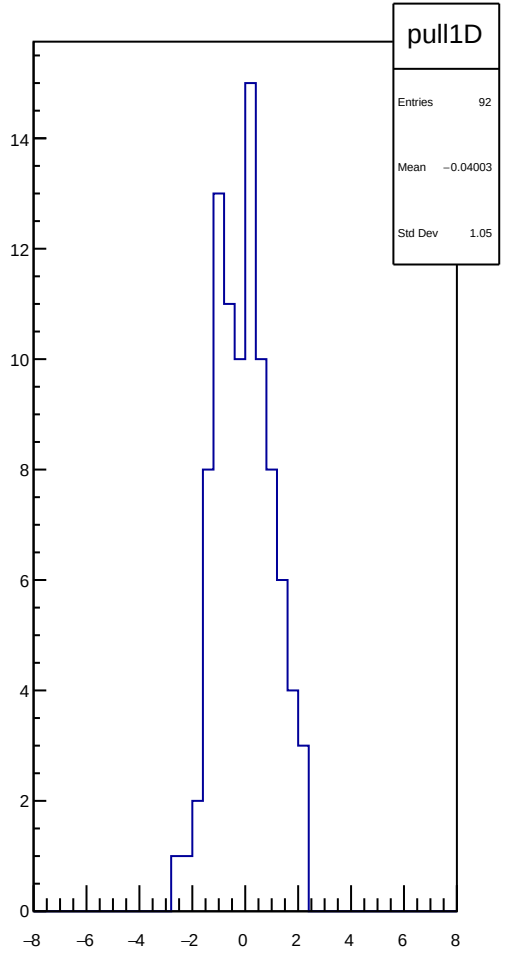

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.04e+04 / 91
p0 28.05 ± 0.02107
38
36
34
32
30
28
26
24

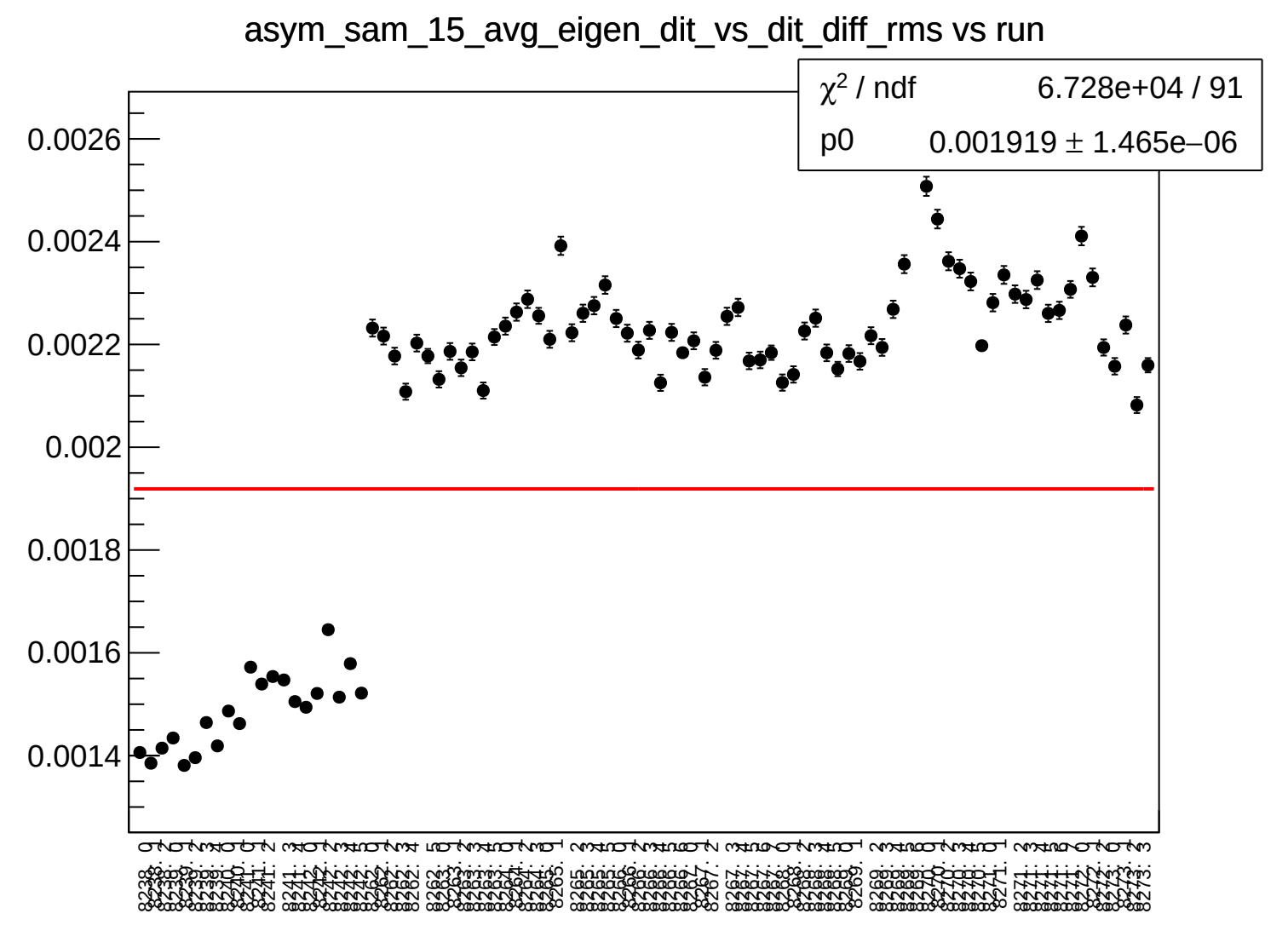

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.73 / 91
p0 −0.0771± 0.0298
pull
Entries 92
Mean 304
Std Dev 0

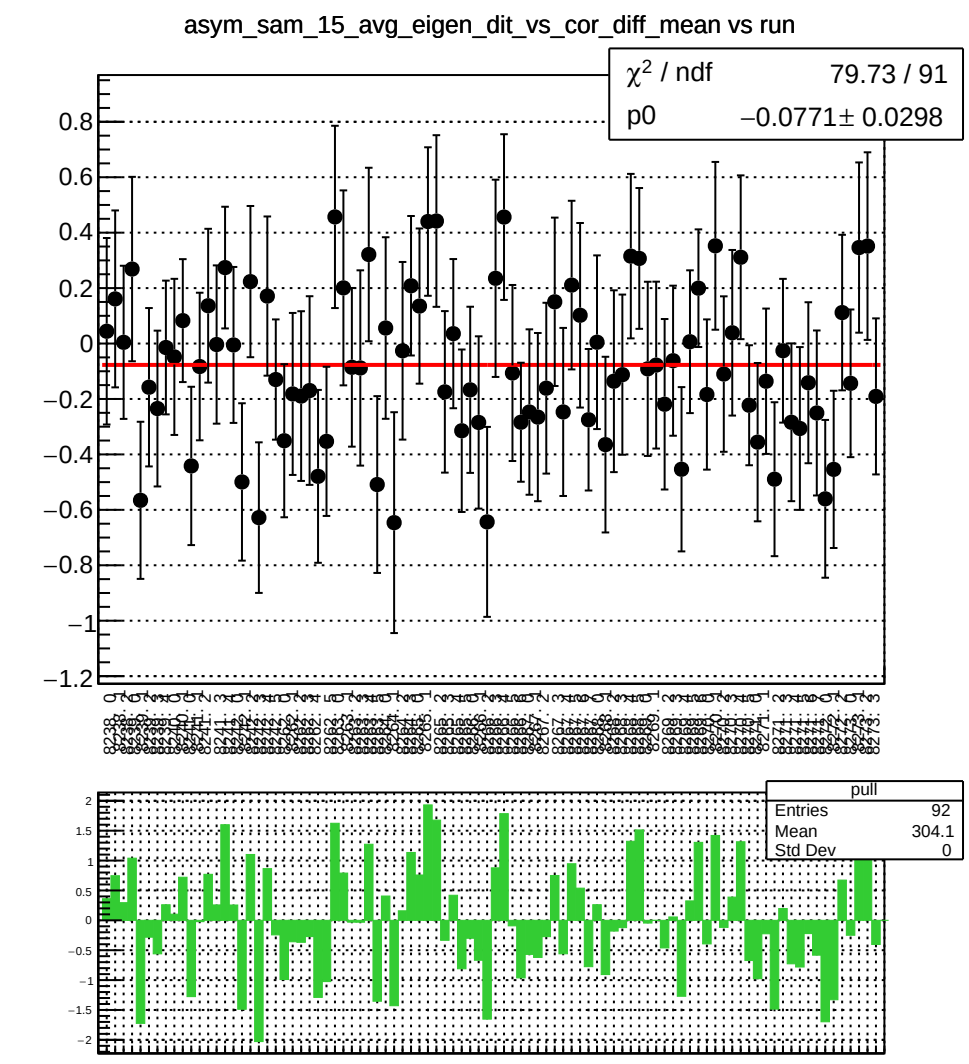

pull1D
Entries 92
Mean −0.004077
Std Dev 0.9309

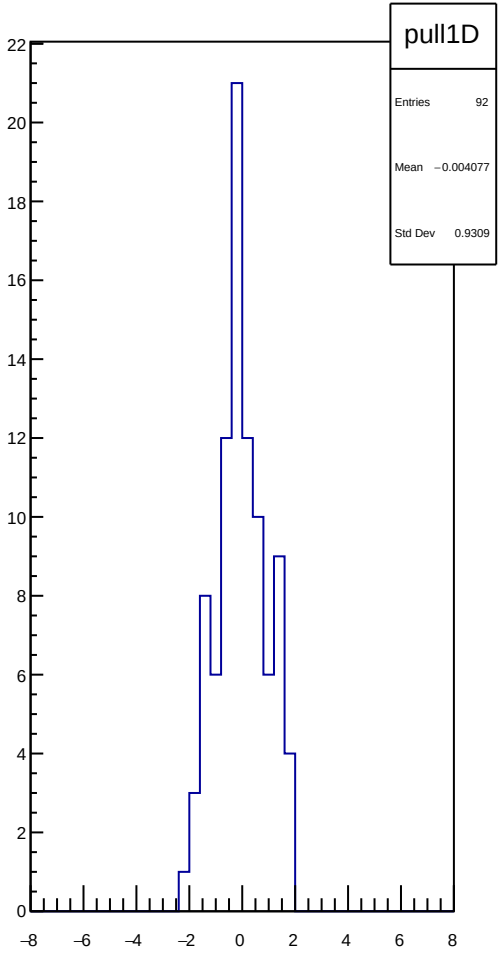

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.04e+04 / 91
p0 28.05 ± 0.02107
38
36
34
32
30
28
26
24

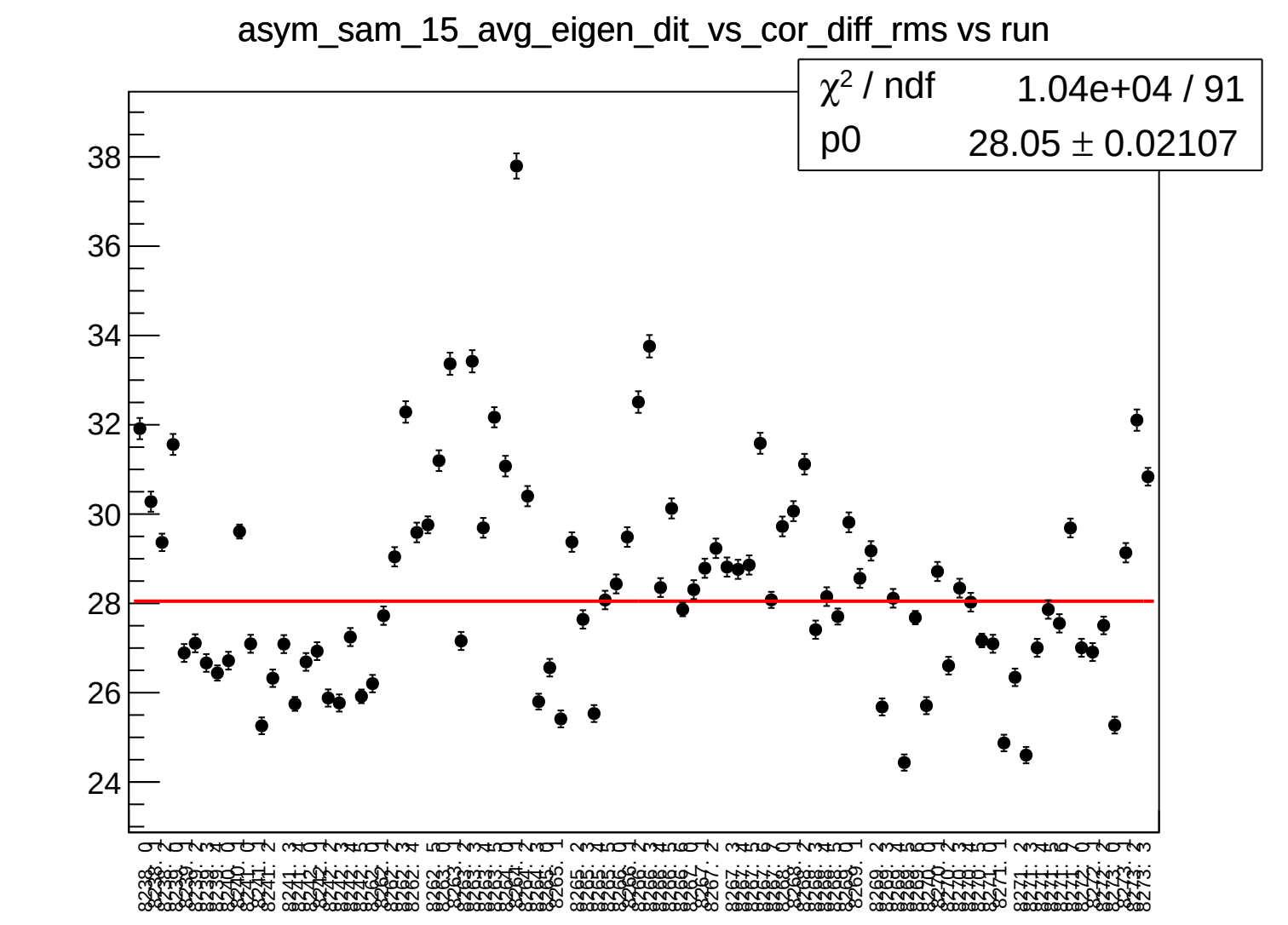

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.6 / 91
p0 4.263e−06 ± 2.072e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 92
Mean 153.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

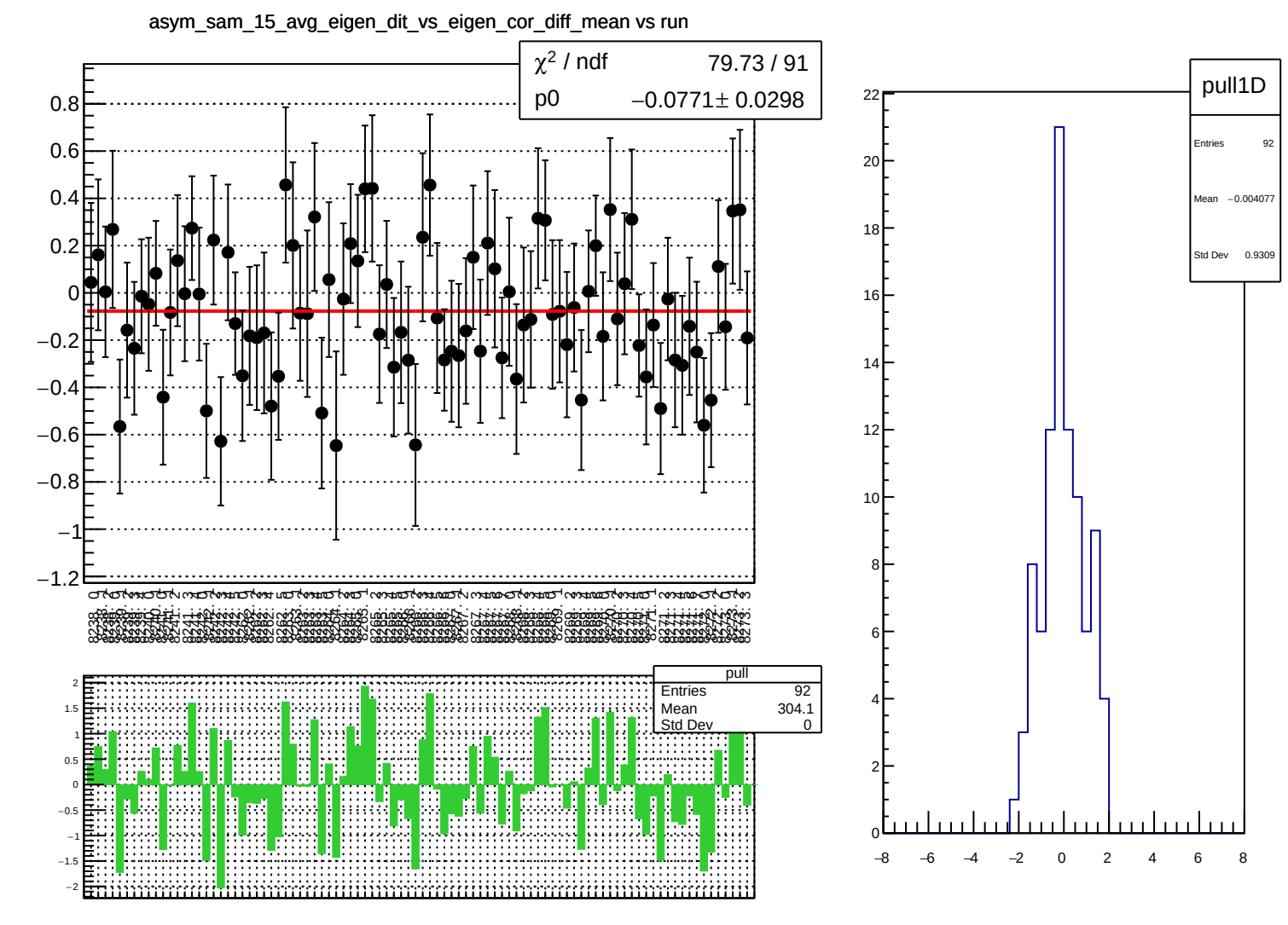

pull1D
Entries 92
Mean −0.04003
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

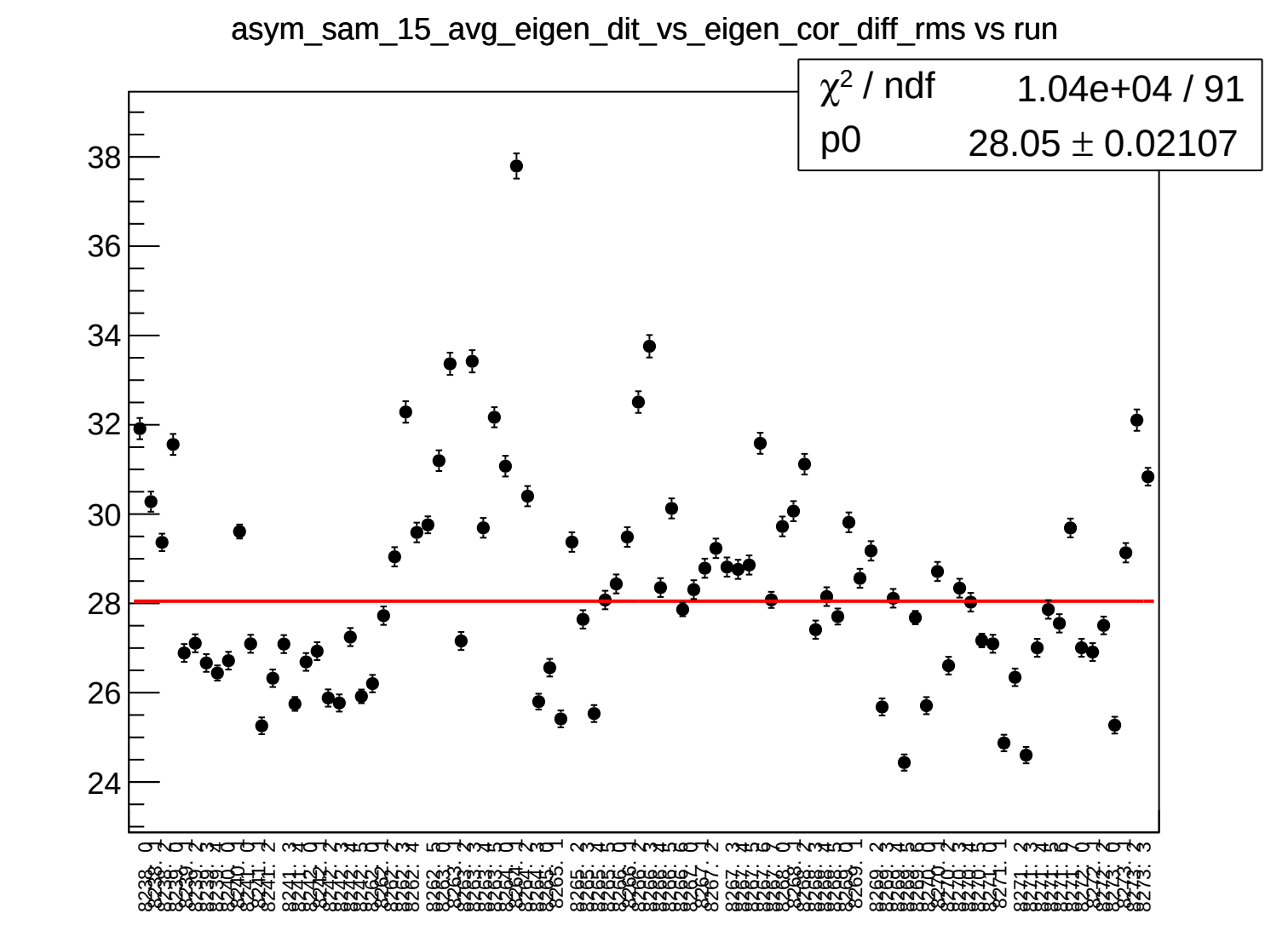

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.728e+04 / 91
p0 0.001919 ± 1.465e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

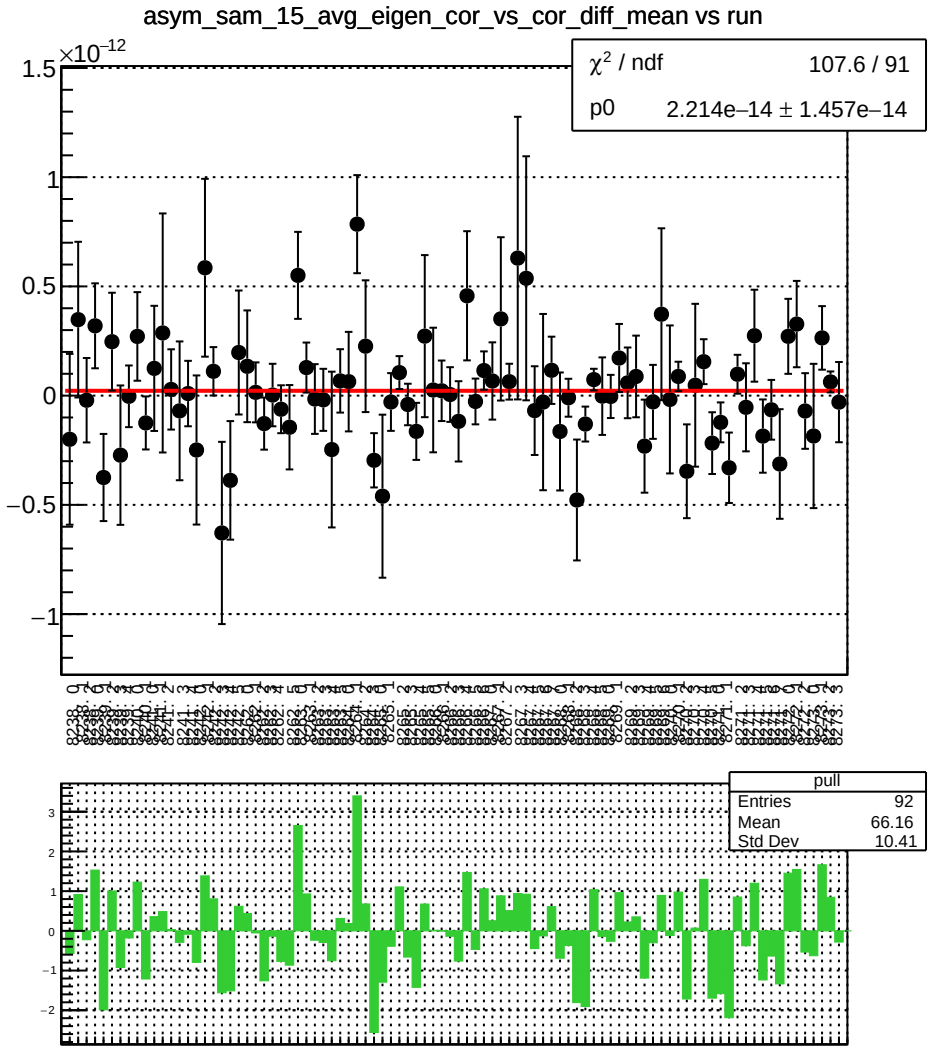

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.73 / 91
p0 −0.0771± 0.0298
pull
Entries 92
Mean 304.1
Std Dev 0

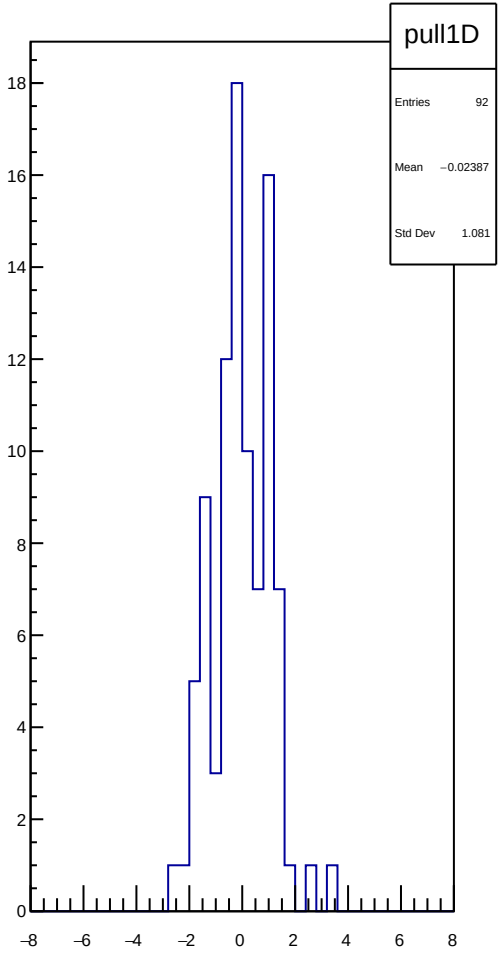

pull1D
Entries 92
Mean −0.004077
Std Dev 0.9309

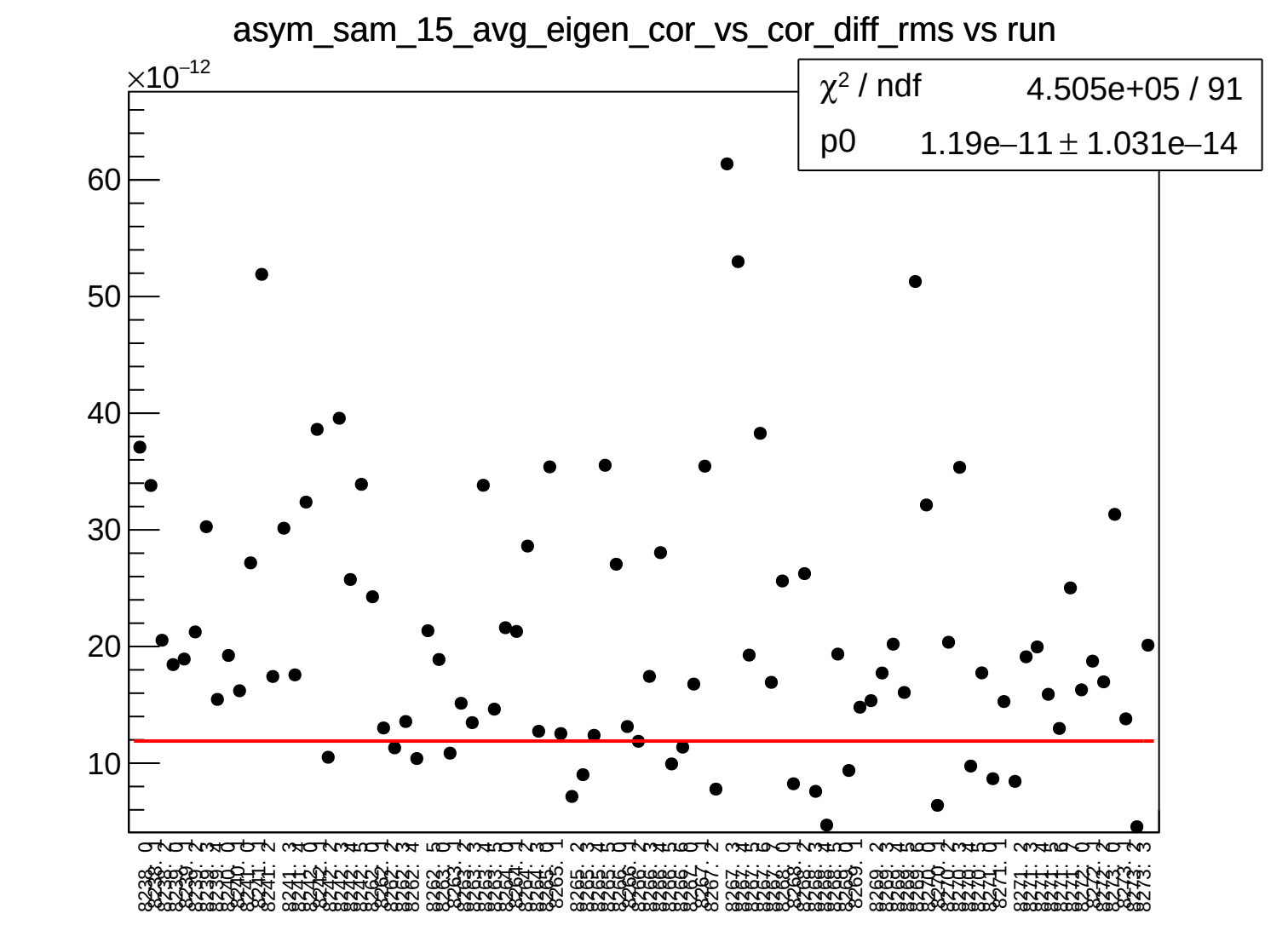

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.04e+04 / 91
p0 28.05 ± 0.02107
38
36
34
32
30
28
26
24

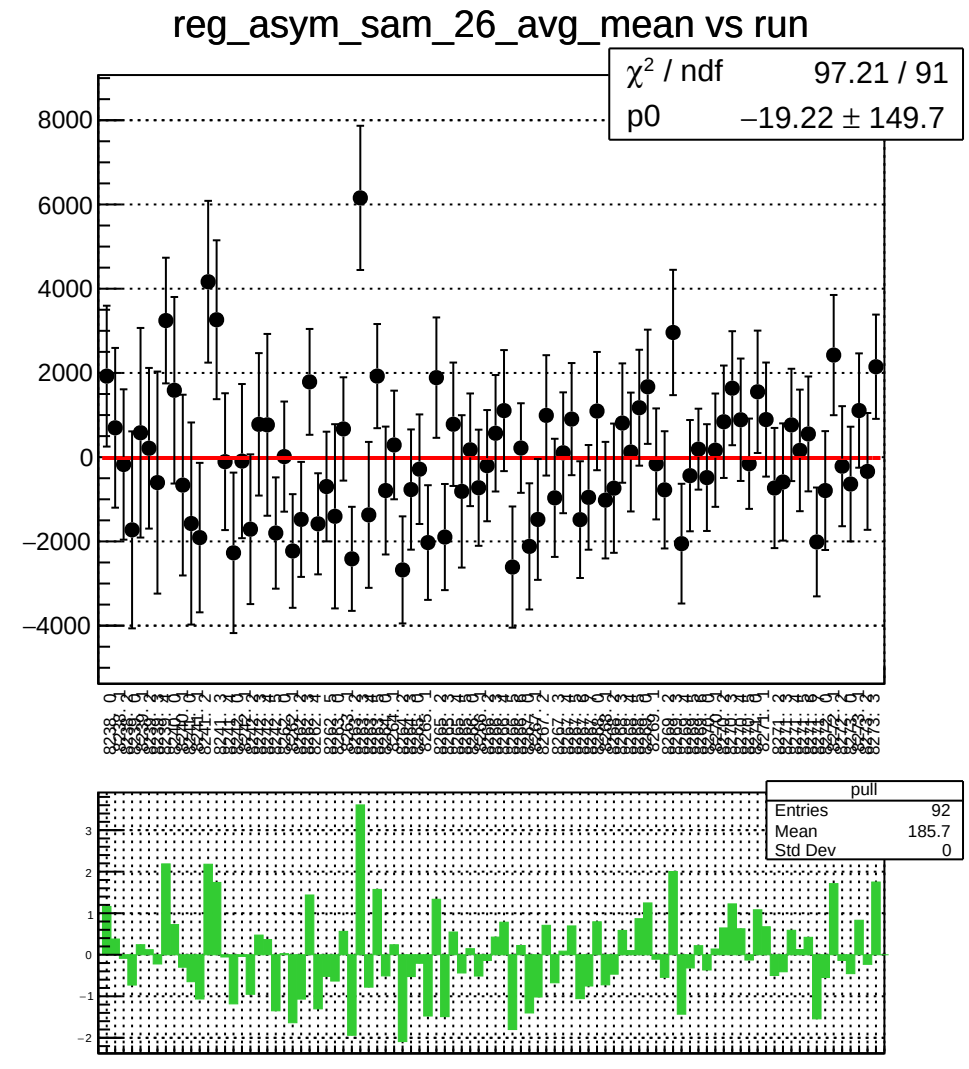

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.73 / 91
p0 −0.0771± 0.0298
pull
Entries 92
Mean 304.1
Std Dev 0
pull1D
Entries 92
Mean −0.004077
Std Dev 0.9309

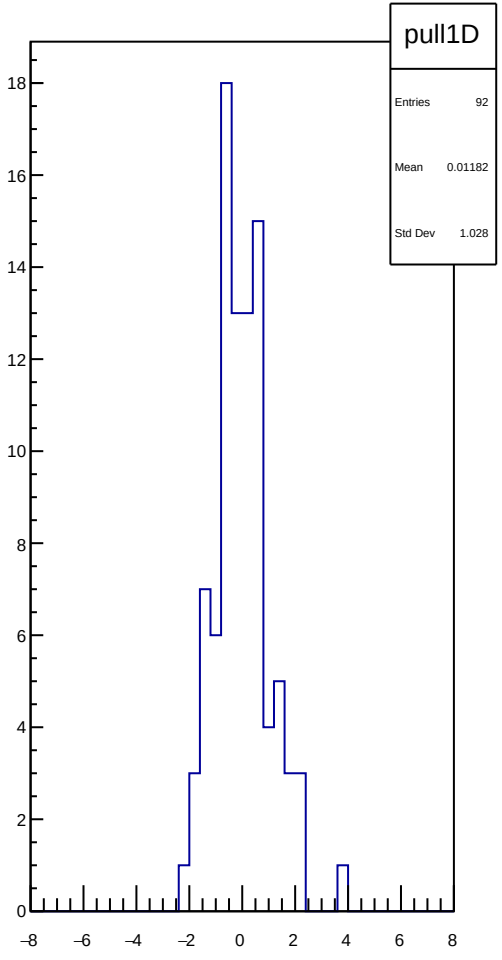

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.04e+04 / 91
p0 28.05 ± 0.02107
38
36
34
32
30
28
26
24

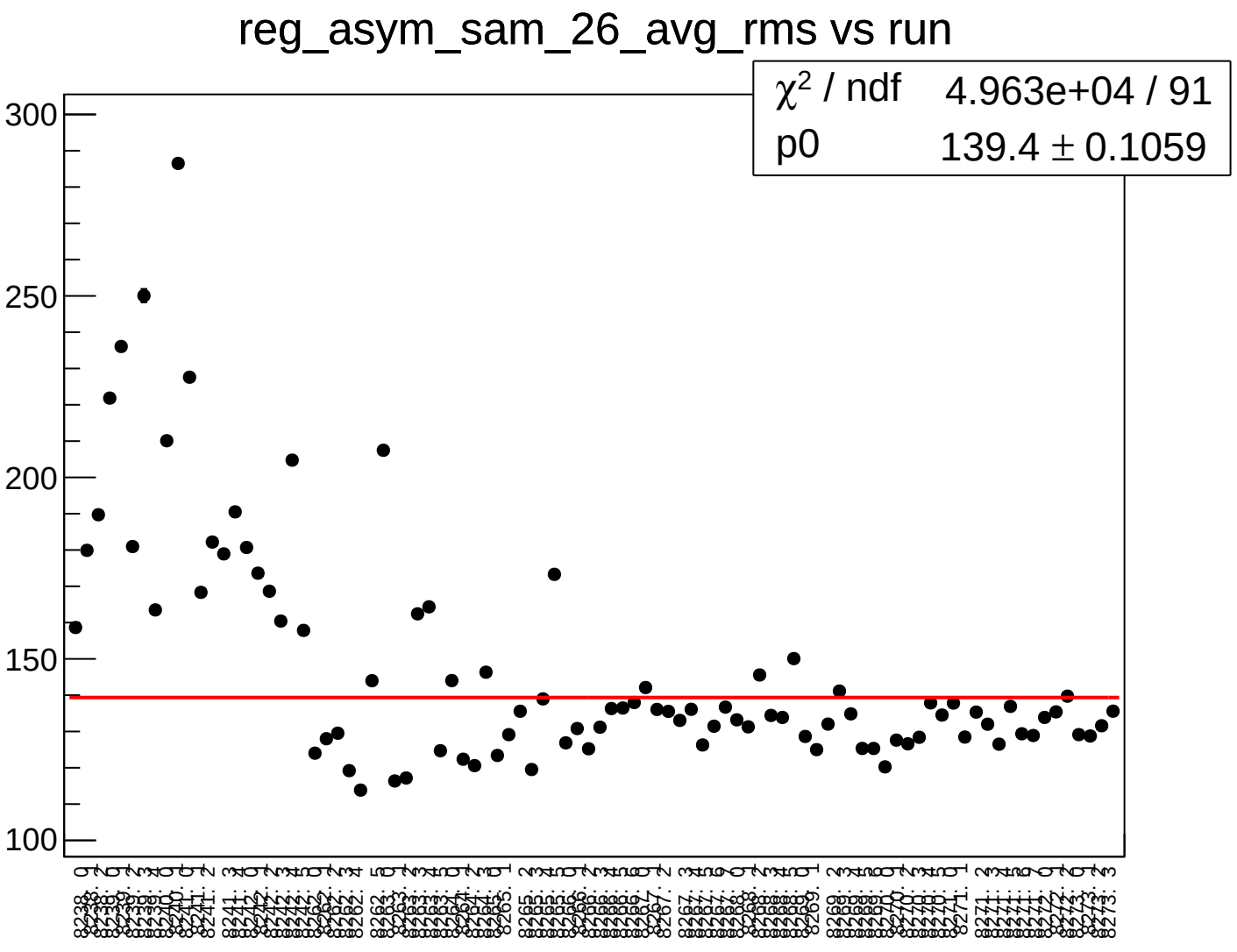

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.6 / 91
p0 2.214e−14 ± 1.457e−14
pull
Entries 92
Mean 66.16
Std Dev 10.41

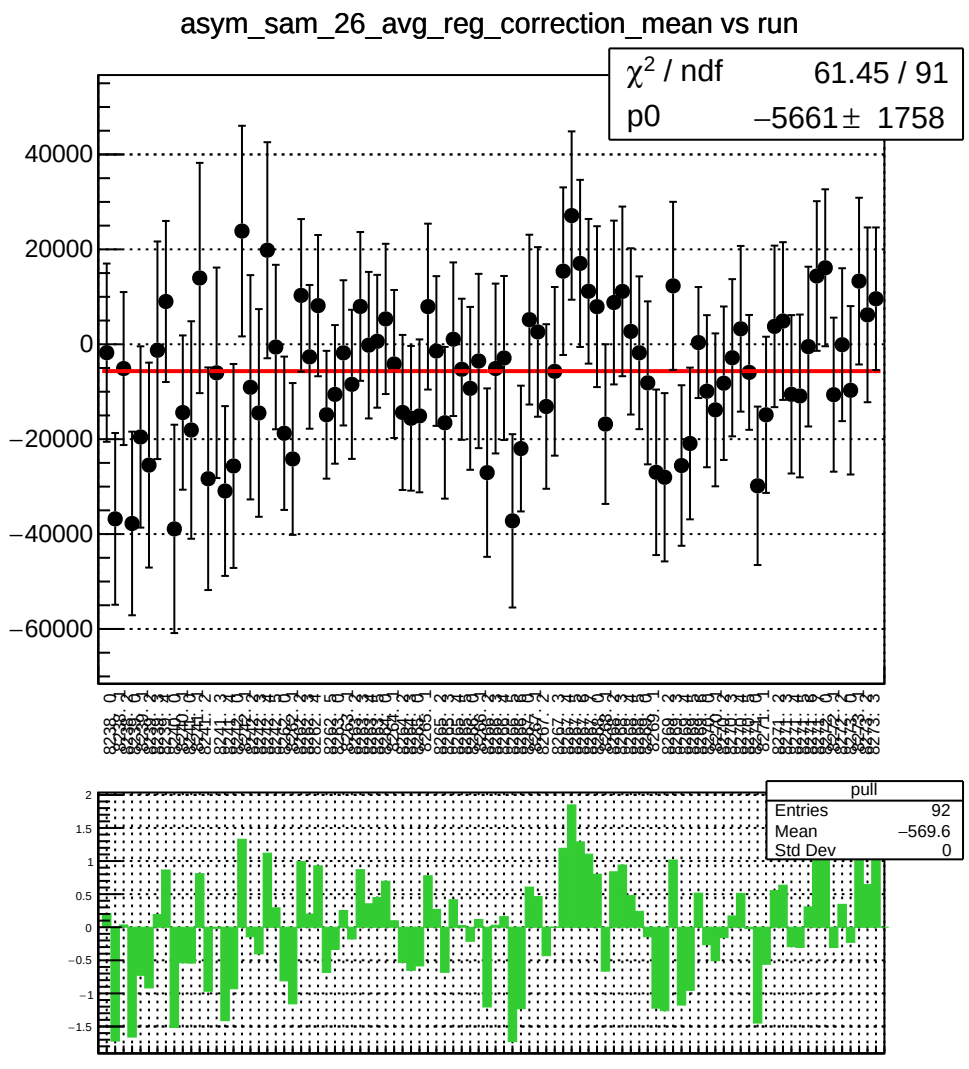

pull1D
Entries 92
Mean −0.02387
Std Dev 1.081

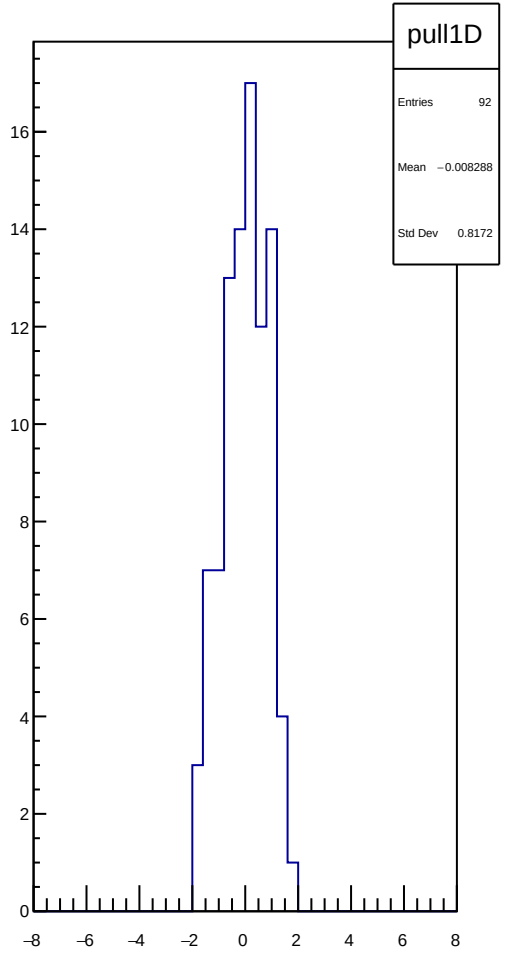

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.505e+05 / 91
p0 1.19e−11 ± 1.031e−14
60
50
40
30
20
10

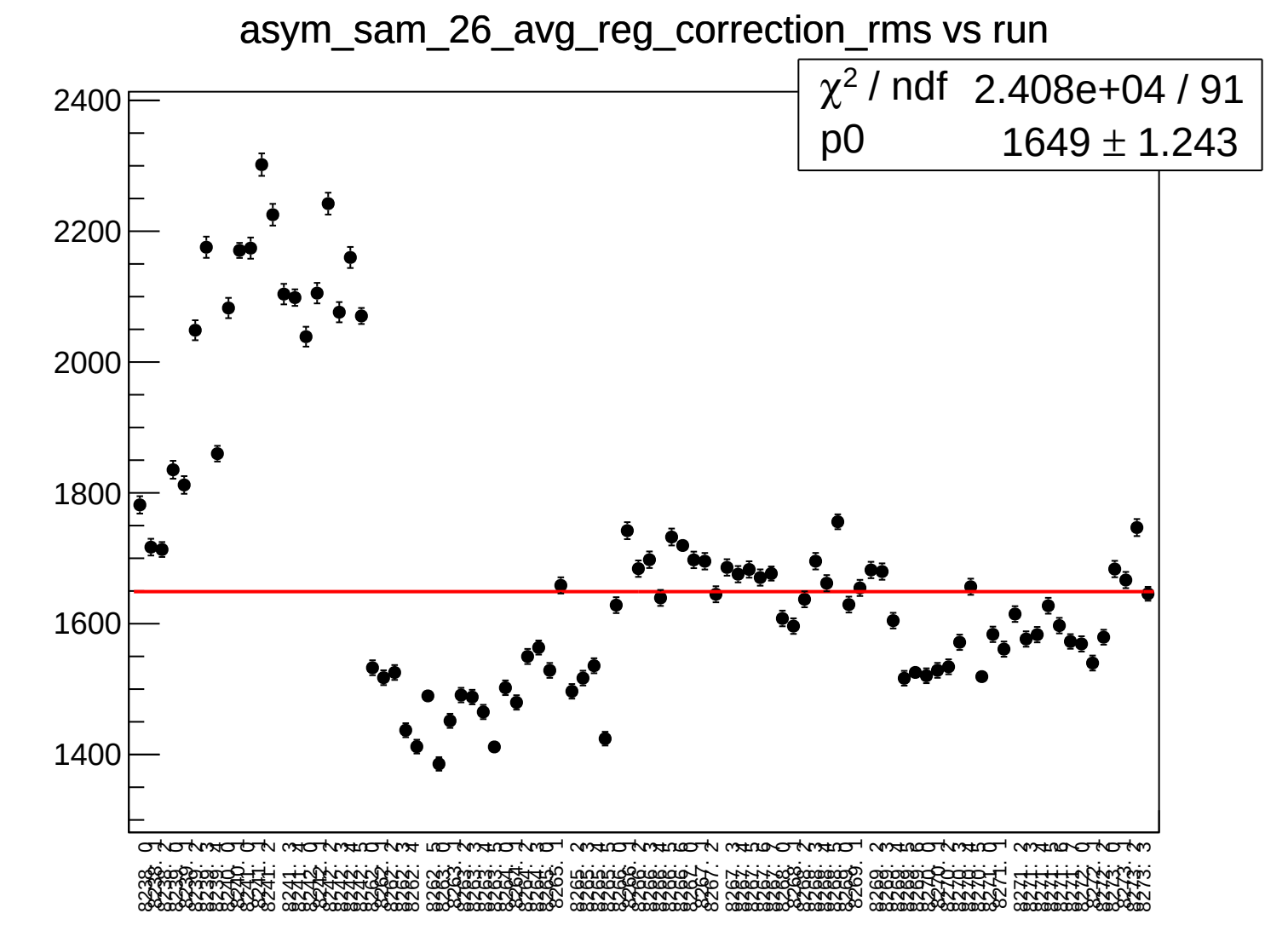

reg_asym_sam_26_avg_mean vs run
χ² / ndf 97.21 / 91
p0 −19.22 ± 149.7
pull
Entries 92
Mean 185.7
Std Dev 0

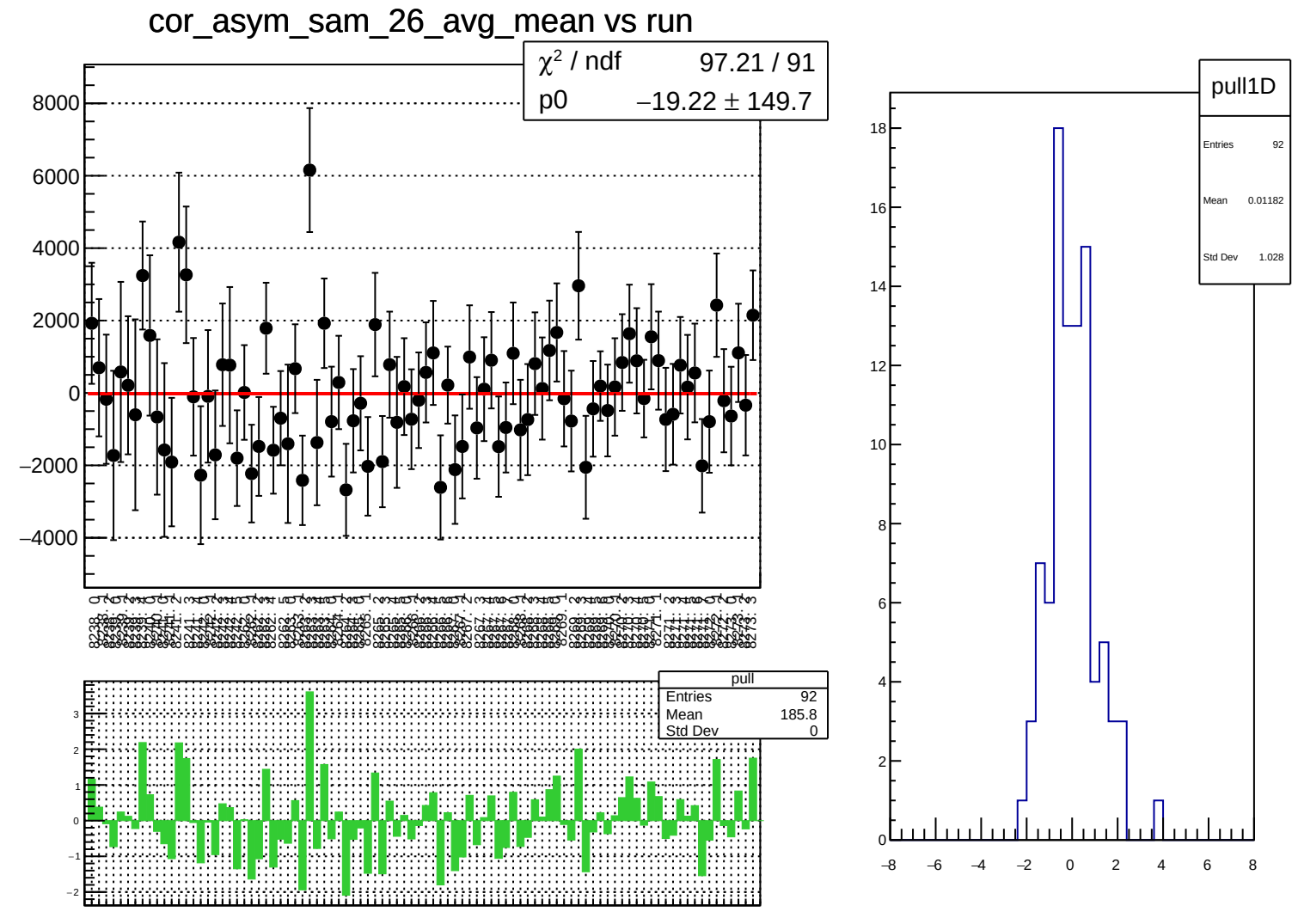

pull1D
Entries 92
Mean 0.01182
Std Dev 1.028

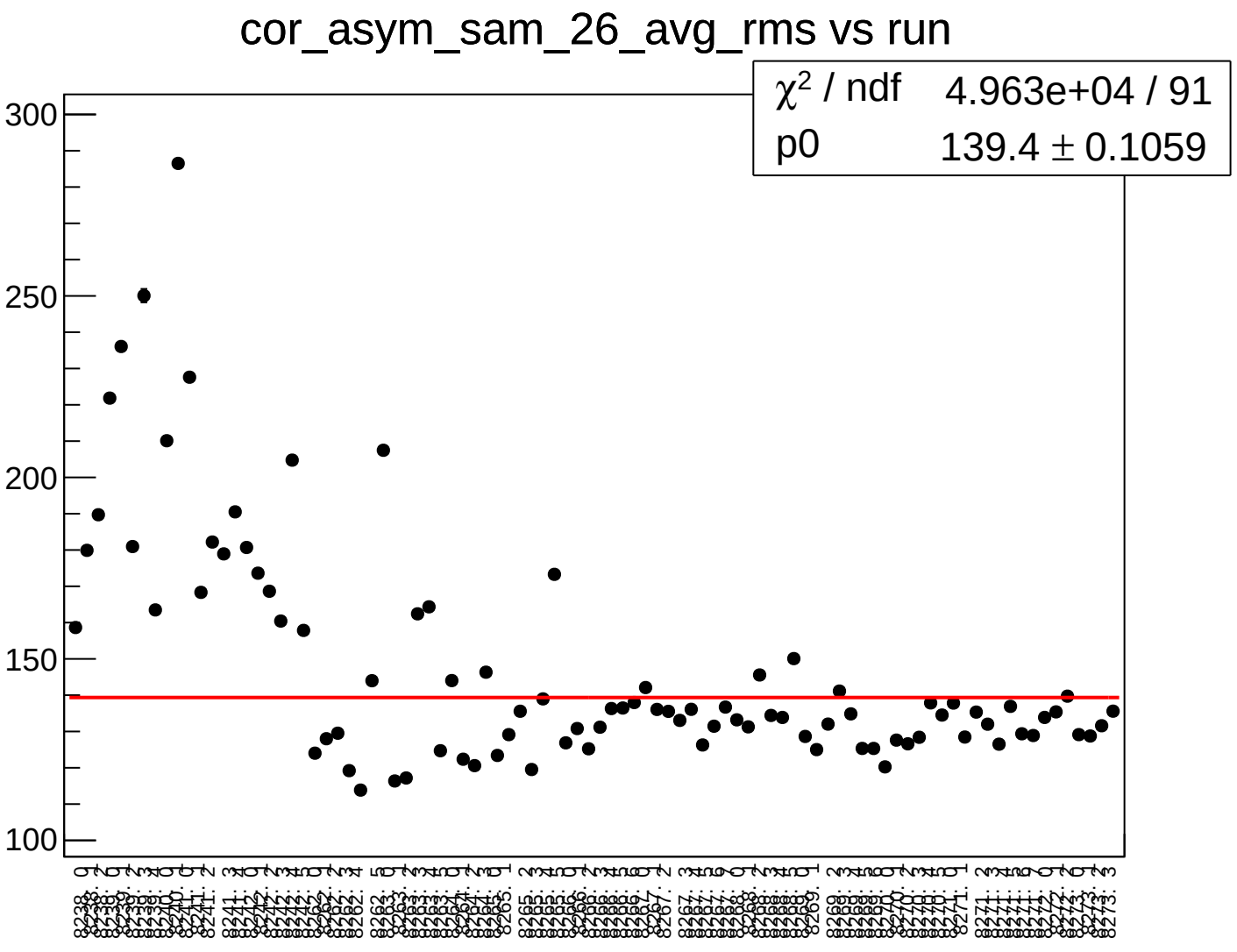

reg_asym_sam_26_avg_rms vs run
χ² / ndf 4.963e+04 / 91
p0 139.4 ± 0.1059
300
250
200
150
100

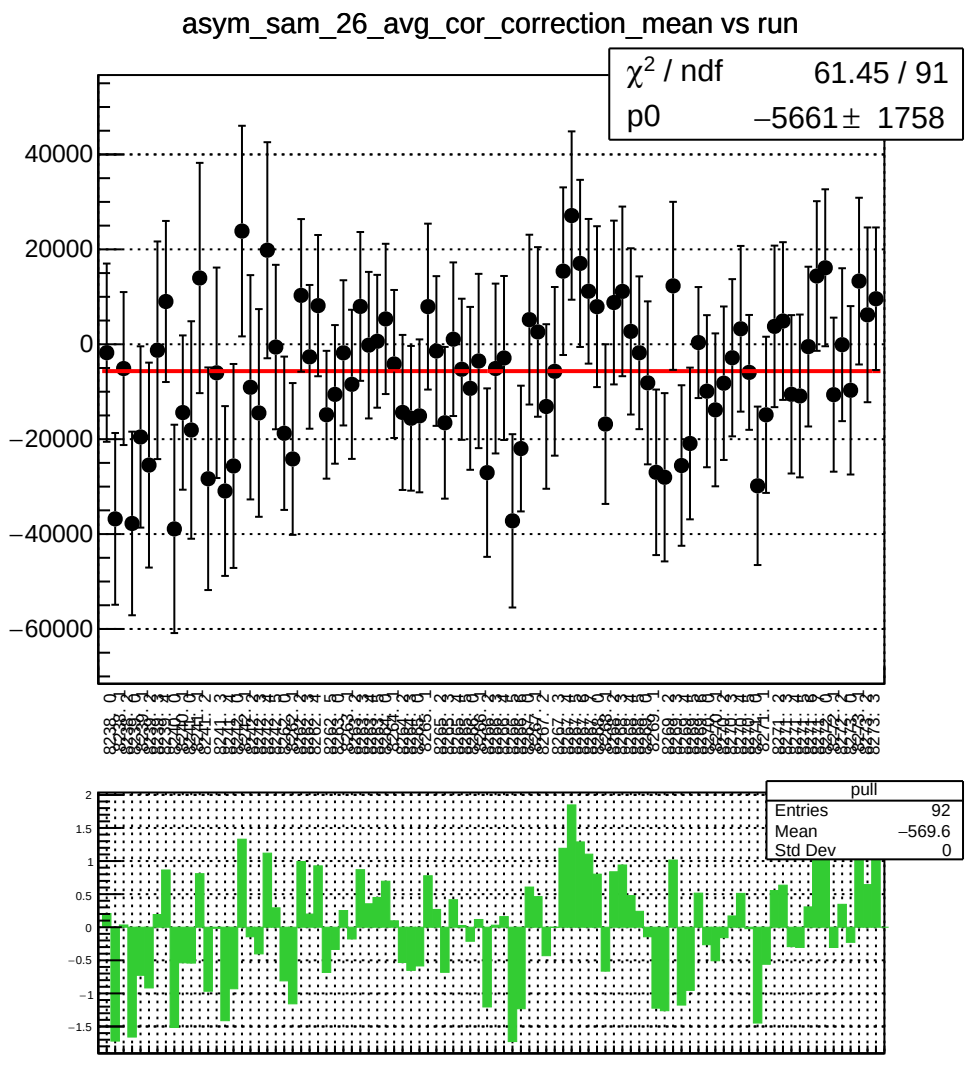

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 61.45 / 91
p0 −5661 ± 1758
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −569.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

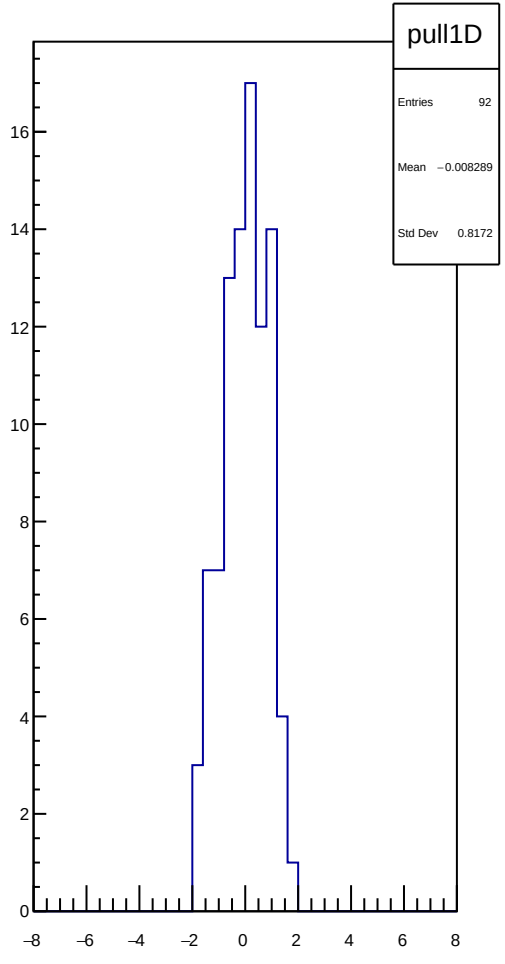

pull1D
Entries 92
Mean −0.008288
Std Dev 0.8172
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

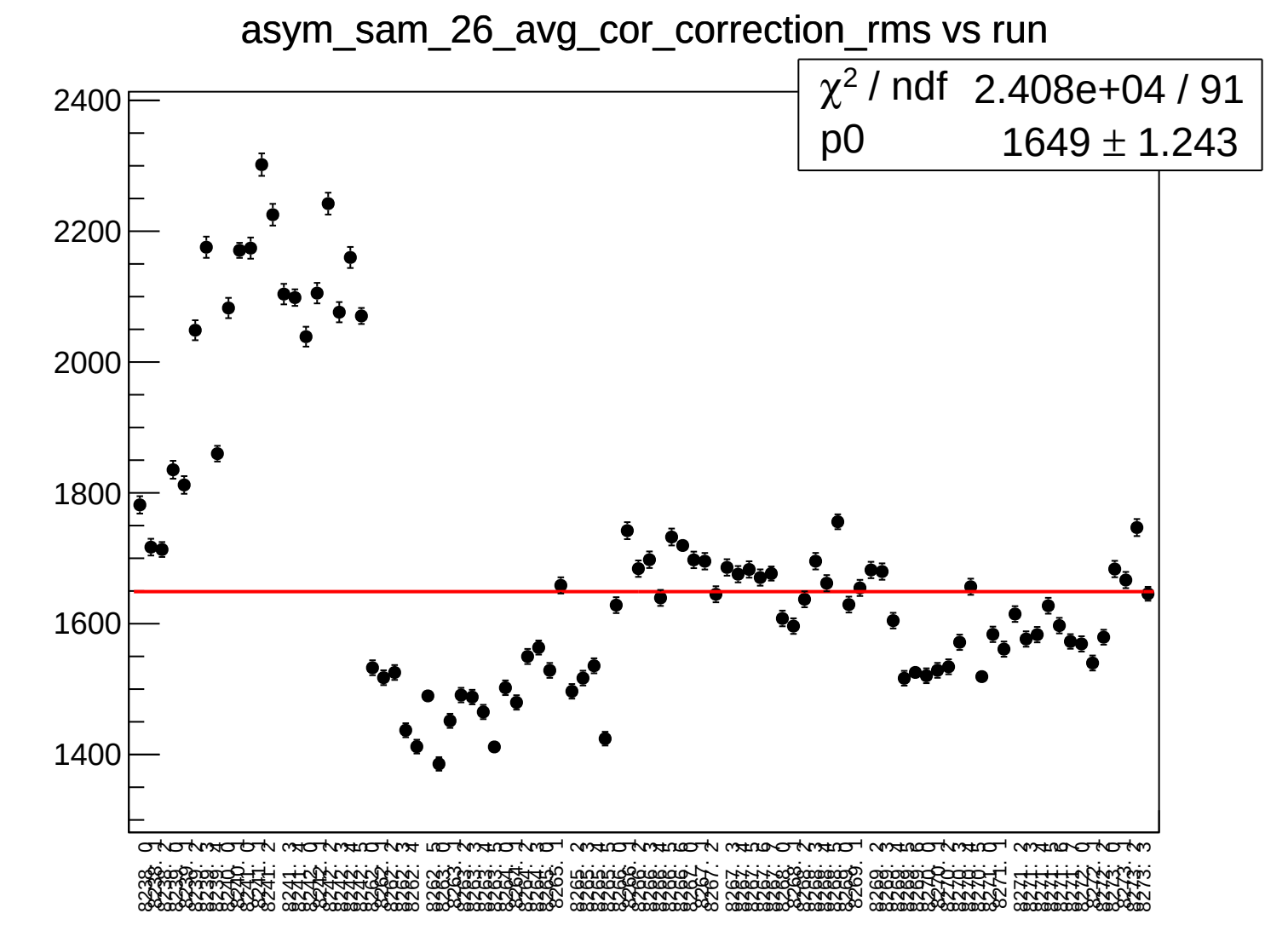

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 2.408e+04 / 91
p0 1649 ± 1.243
2400
2200
2000
1800
1600
1400

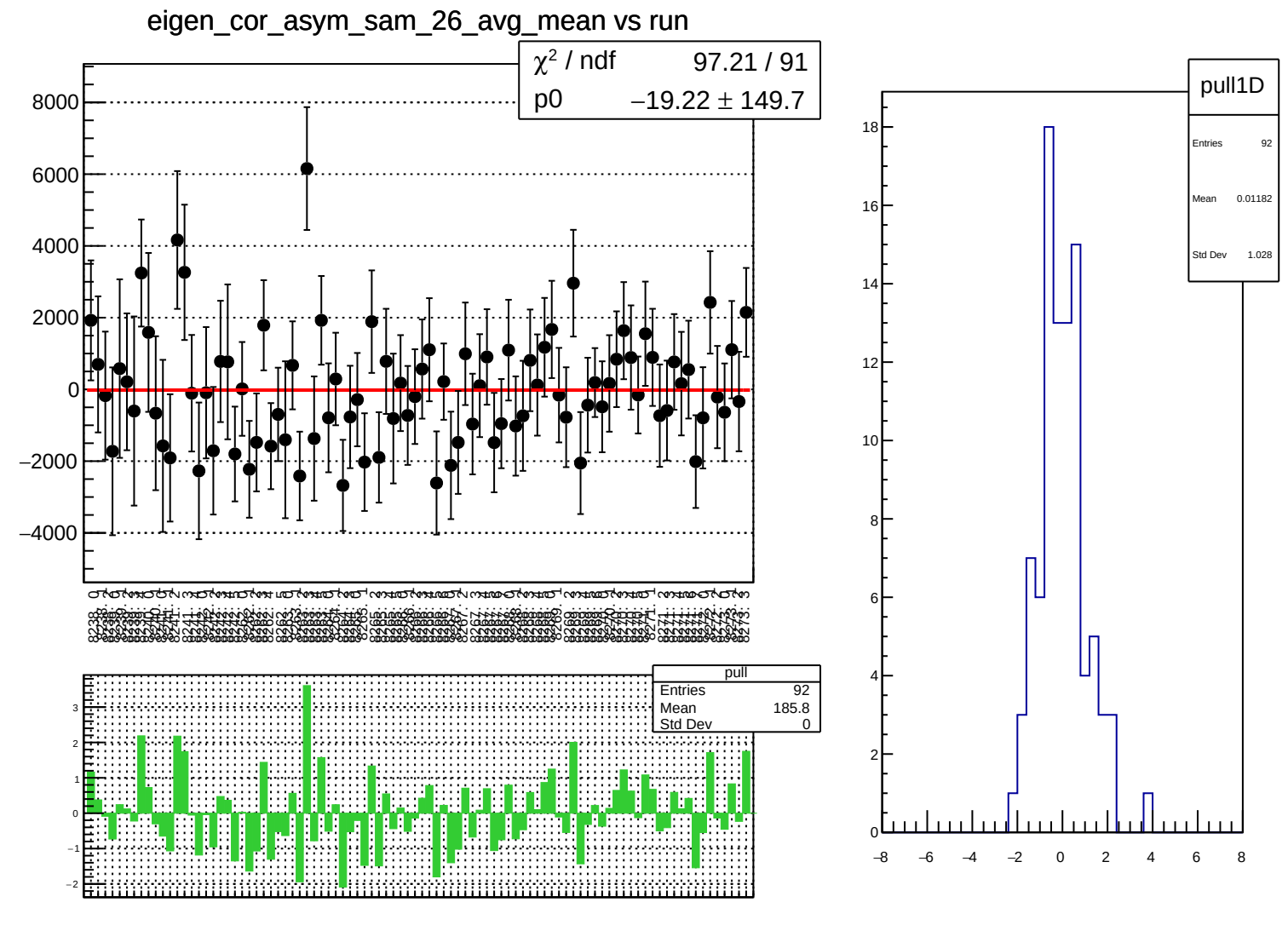

cor_asym_sam_26_avg_mean vs run
χ² / ndf 97.21 / 91
p0 −19.22 ± 149.7
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 185.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.01182
Std Dev 1.028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

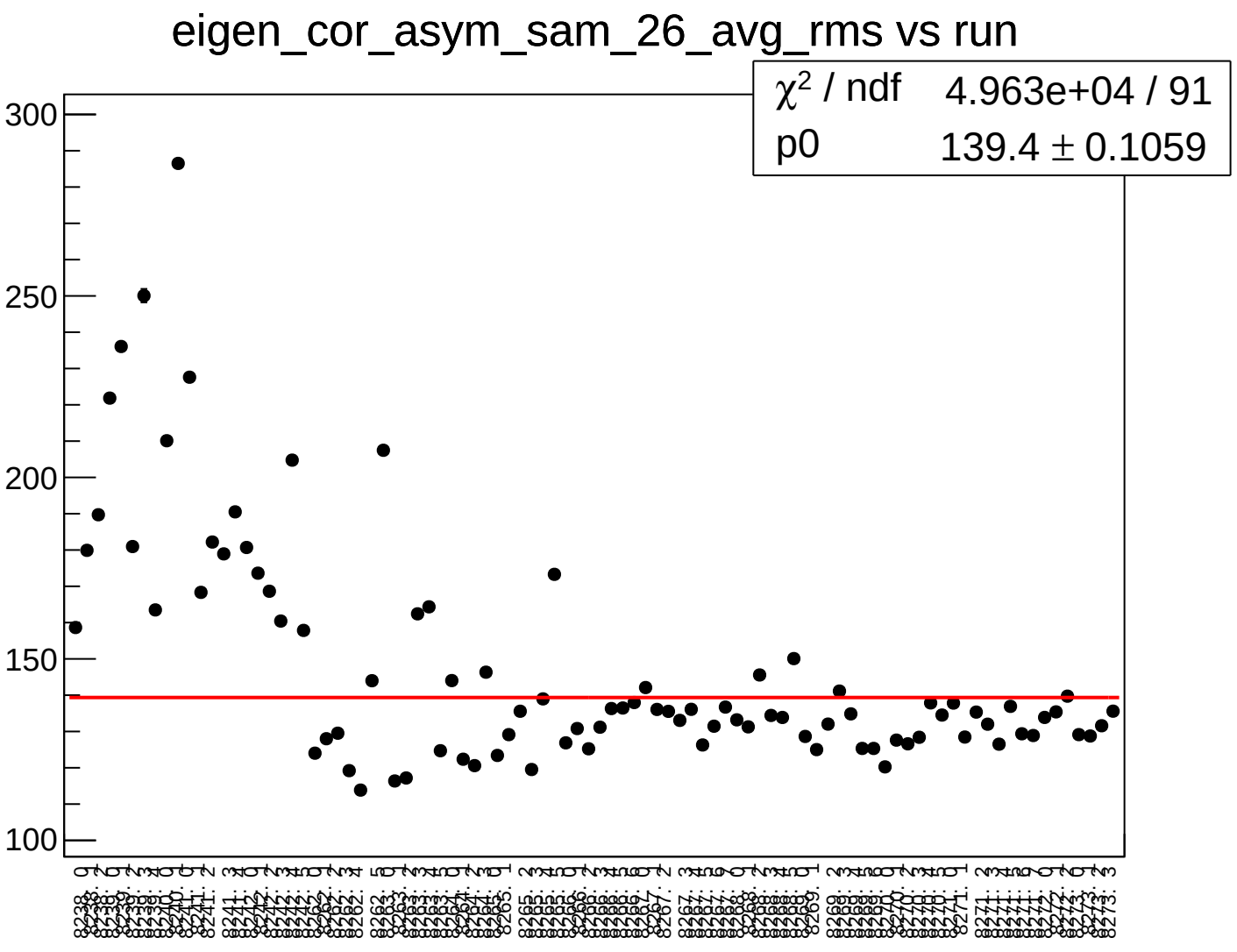

cor_asym_sam_26_avg_rms vs run
$\chi^2$ / ndf 4.963e+04 / 91
p0 139.4 ± 0.1059
300
250
200
150
100

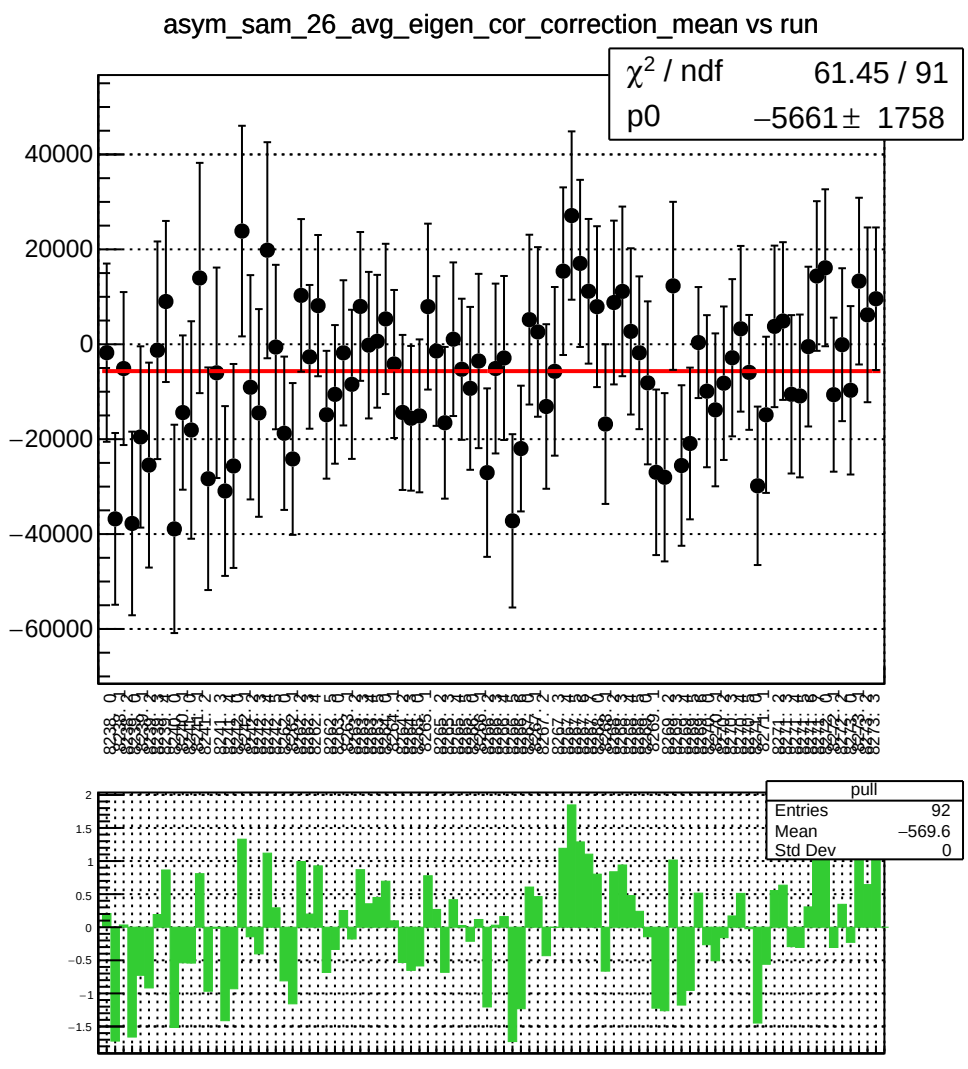

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 61.45 / 91
p0 −5661 ± 1758
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −569.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

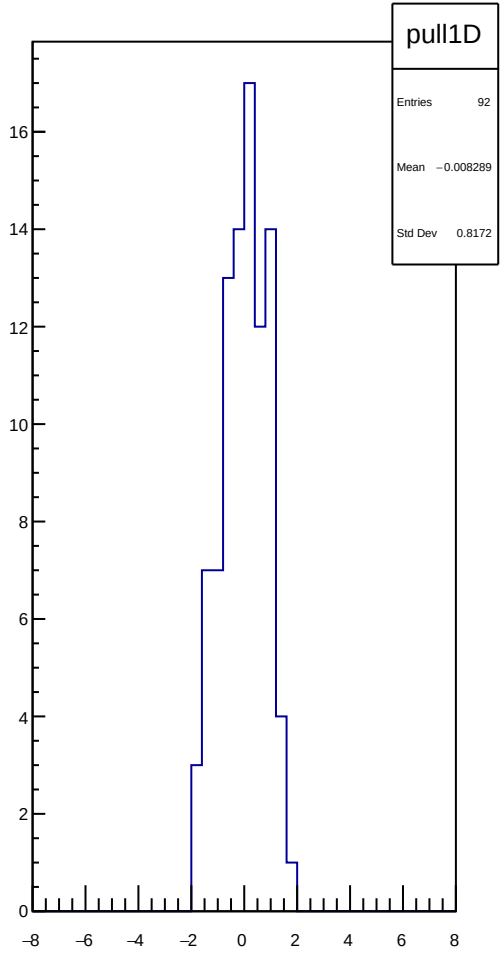

pull1D
Entries 92
Mean −0.008289
Std Dev 0.8172
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

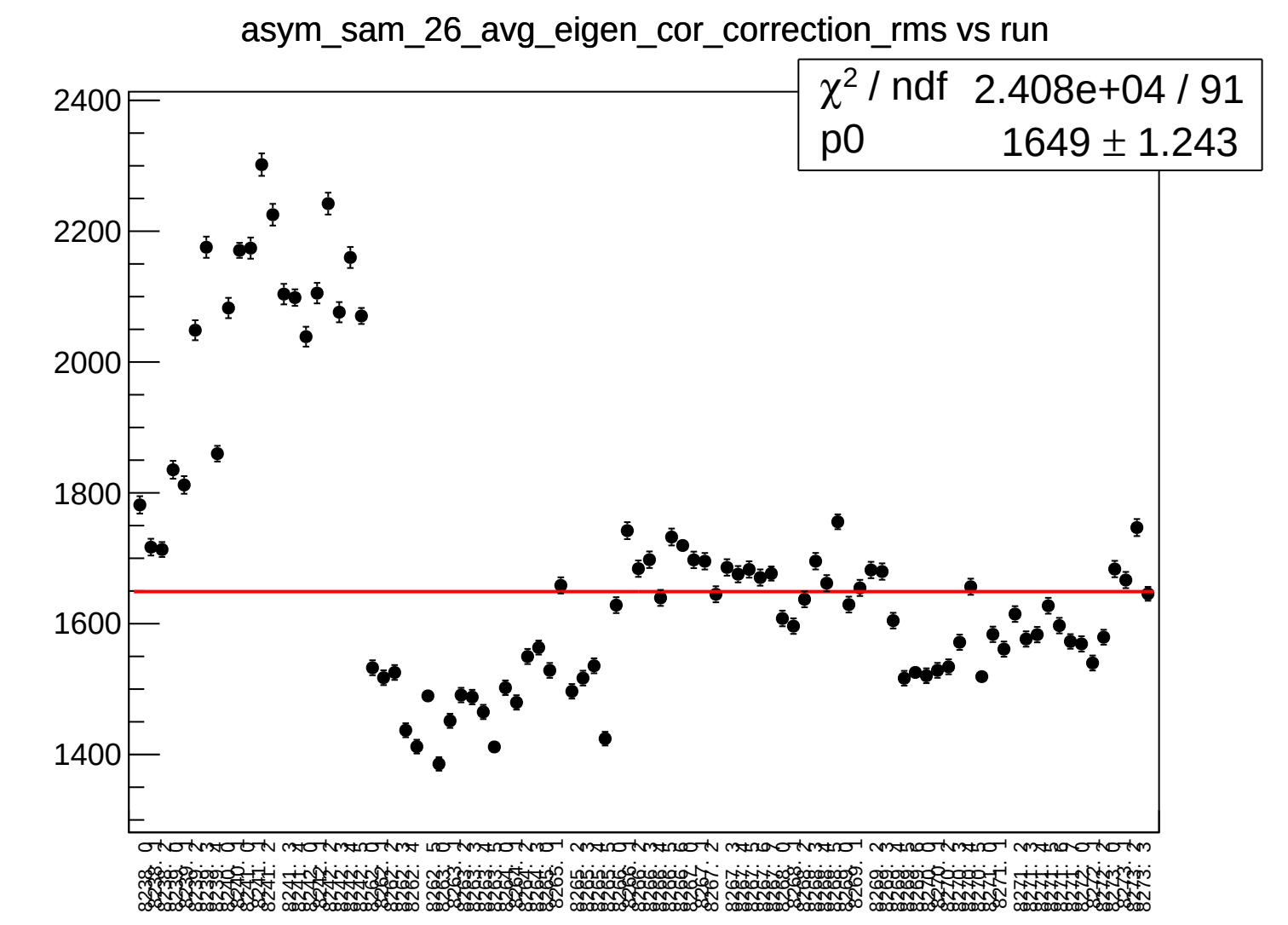

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 2.408e+04 / 91
p0 1649 ± 1.243
2400
2200
2000
1800
1600
1400

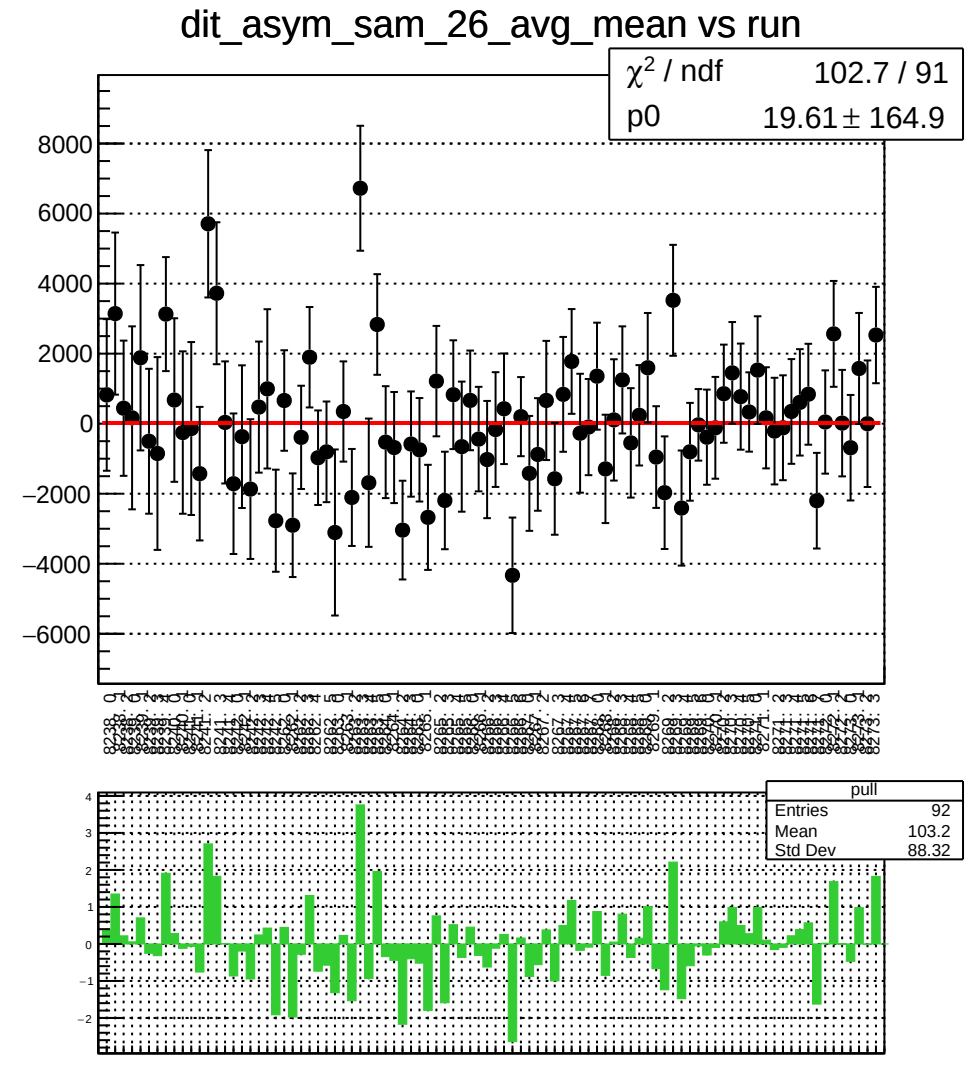

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 97.21 / 91
p0 −19.22 ± 149.7
pull
Entries 92
Mean 185.8
Std Dev 0
pull1D
Entries 92
Mean 0.01182
Std Dev 1.028

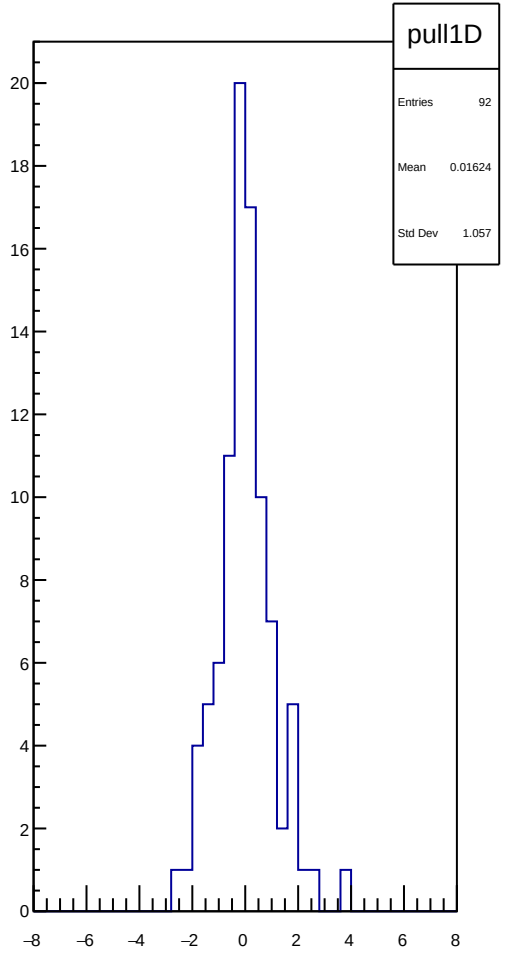

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 4.963e+04 / 91
p0 139.4 ± 0.1059
300
250
200
150
100

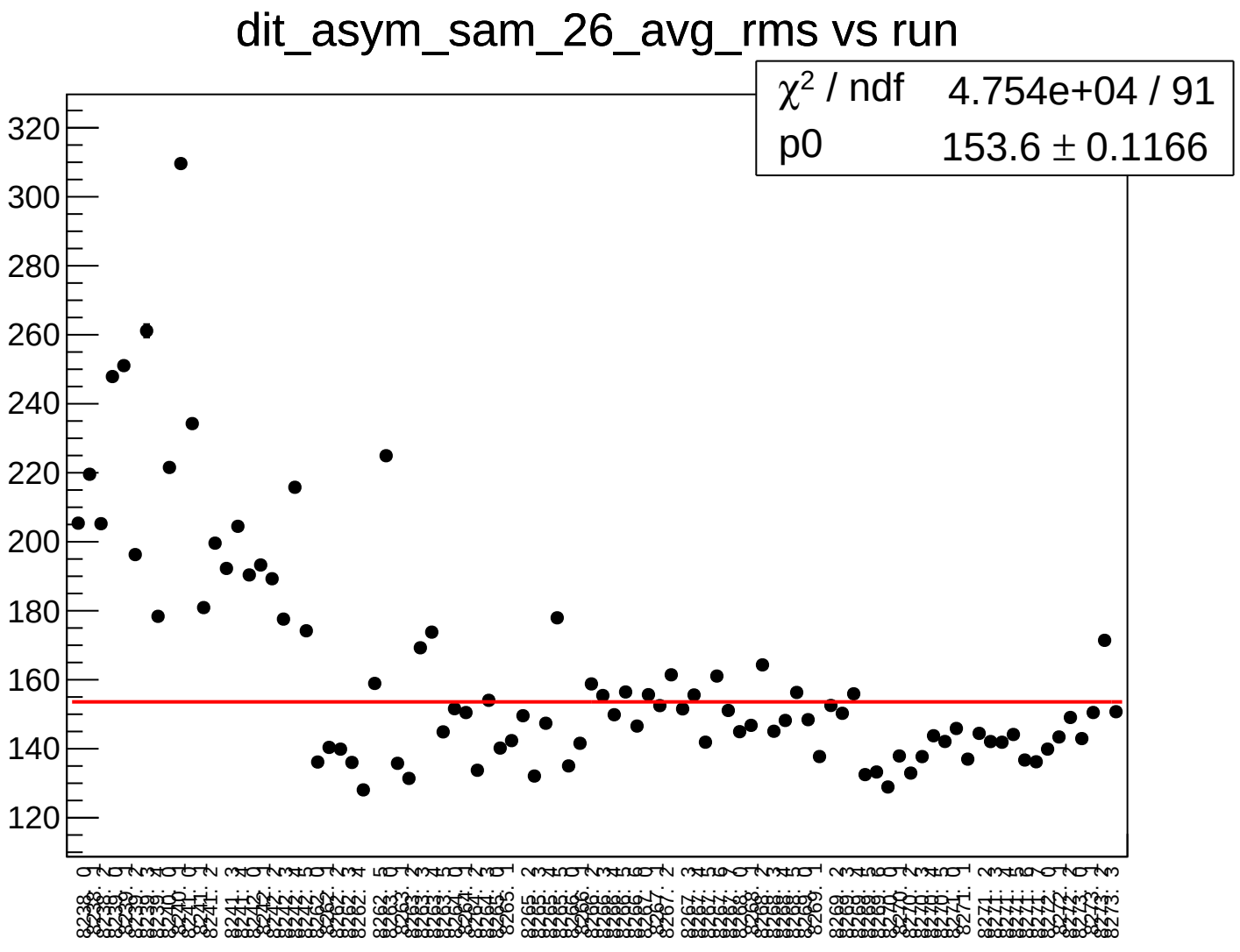

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 61.45 / 91
p0 −5661 ± 1758
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −569.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

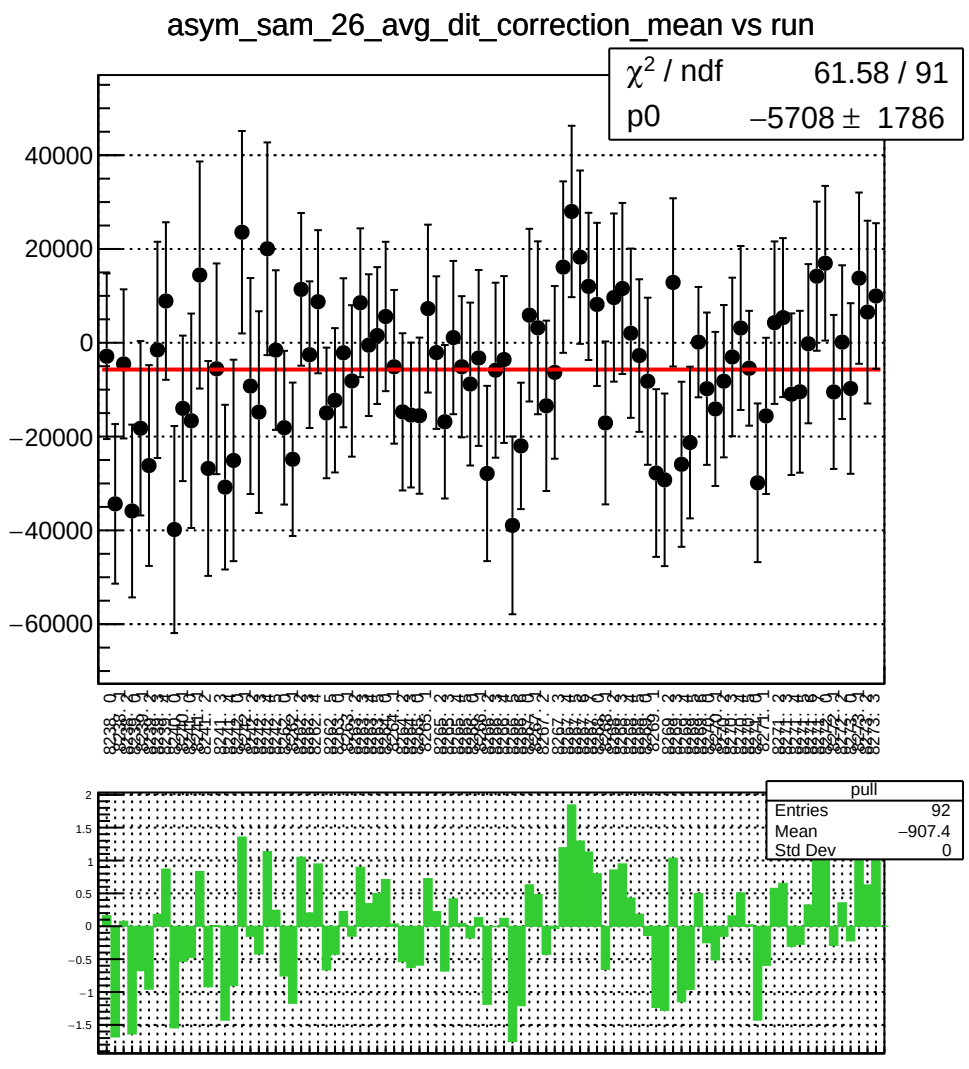

pull1D
Entries 92
Mean −0.008289
Std Dev 0.8172
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

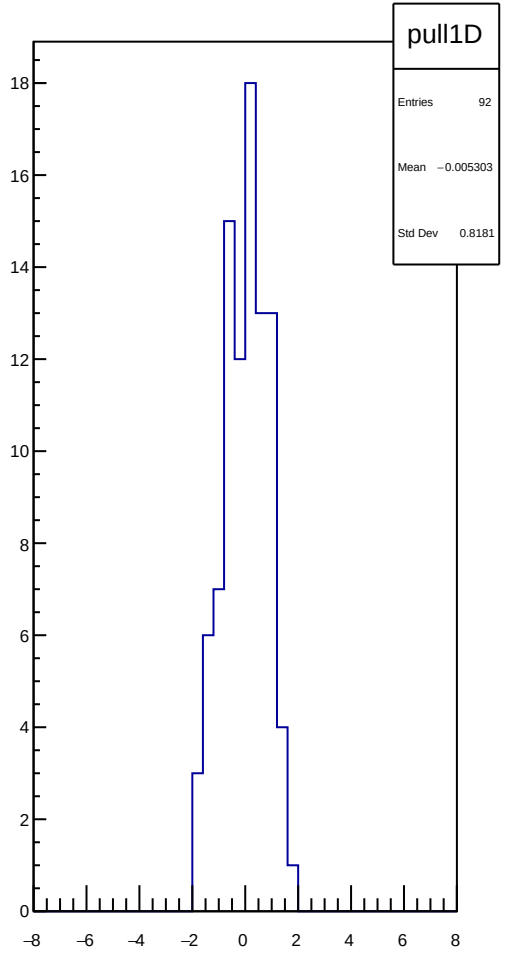

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.408e+04 / 91
p0 1649 ± 1.243
2400
2200
2000
1800
1600
1400

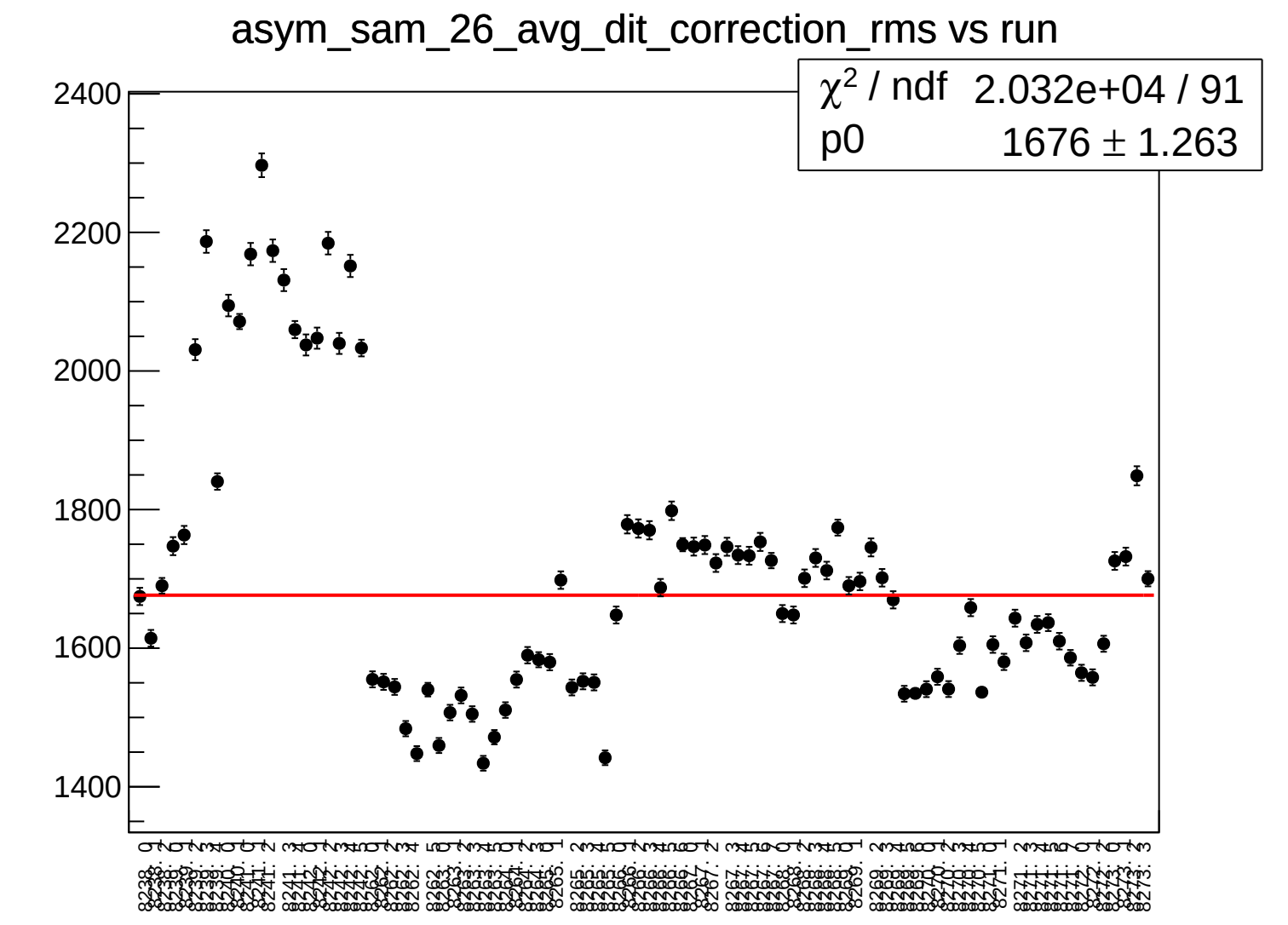

dit_asym_sam_26_avg_mean vs run
χ² / ndf 102.7 / 91
p0 19.61 ± 164.9
pull
Entries 92
Mean 103.2
Std Dev 88.32

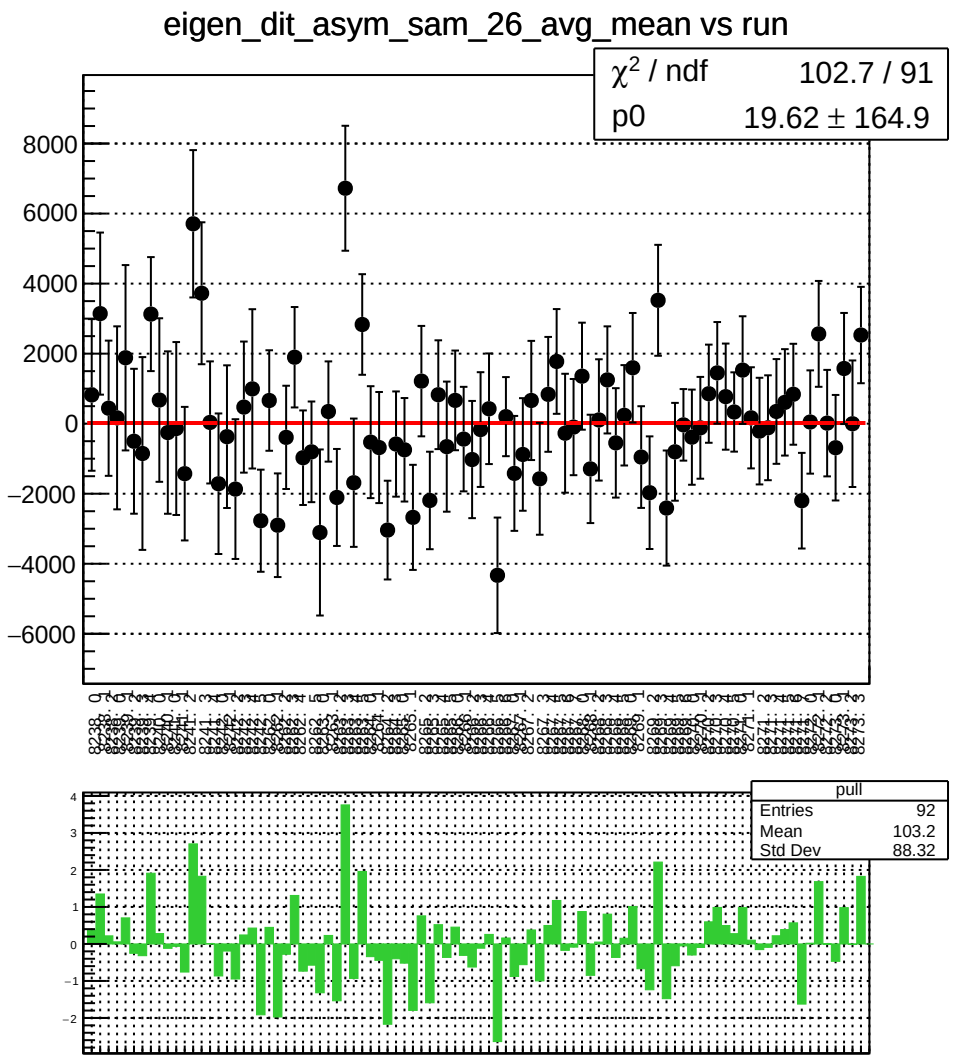

pull1D
Entries 92
Mean 0.01624
Std Dev 1.057

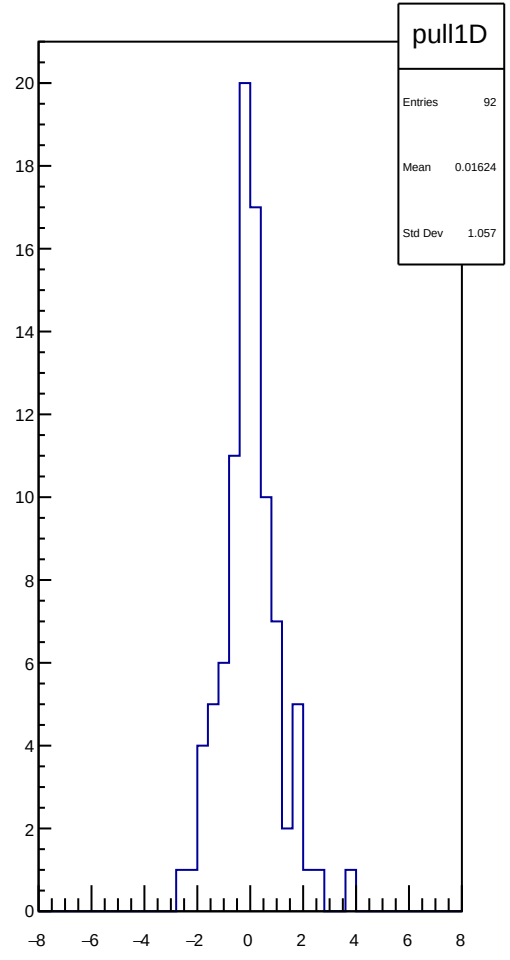

dit_asym_sam_26_avg_rms vs run
χ² / ndf 4.754e+04 / 91
p0 153.6 ± 0.1166
320
300
280
260
240
220
200
180
160
140
120

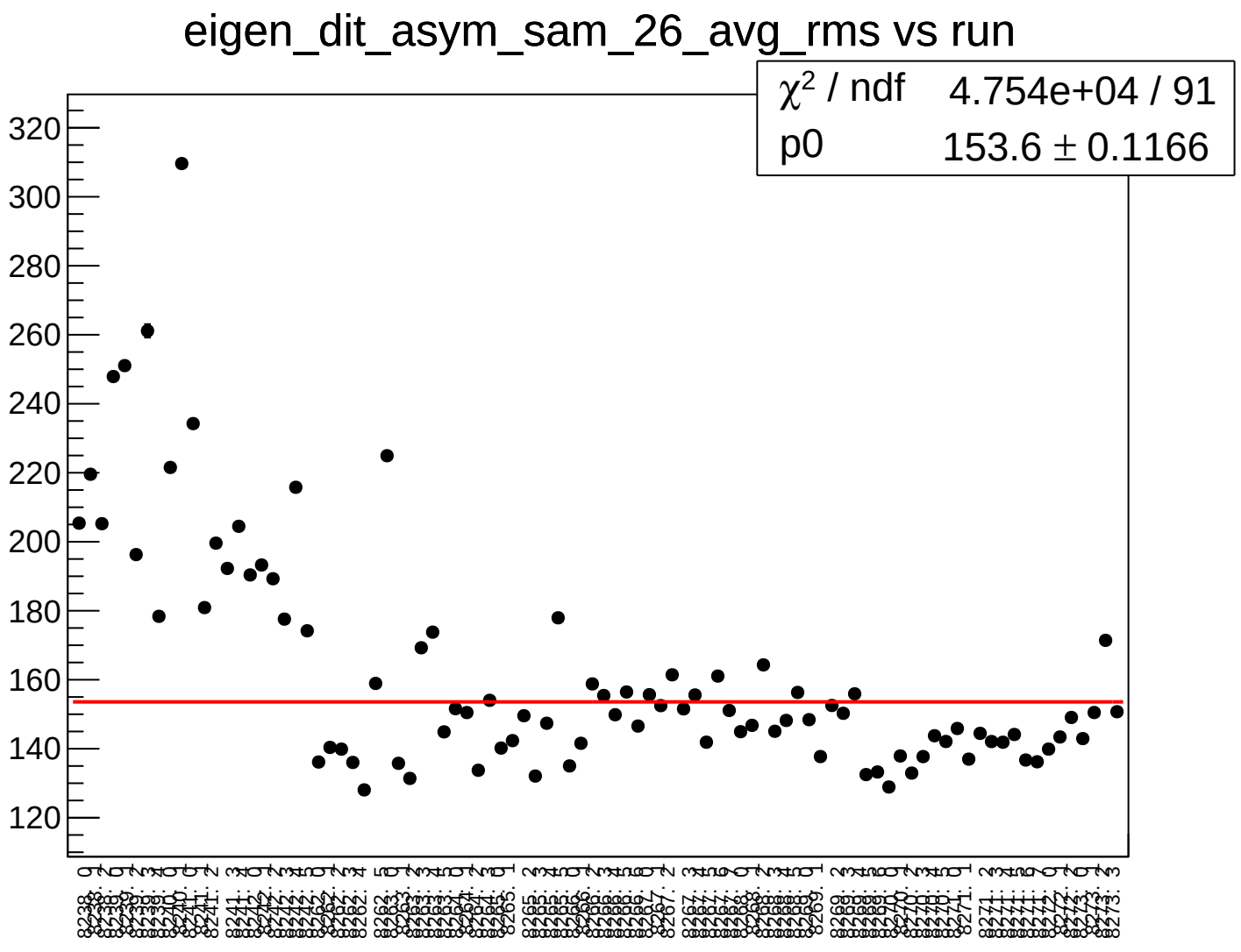

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 61.58 / 91
p0 −5708 ± 1786
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −907.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

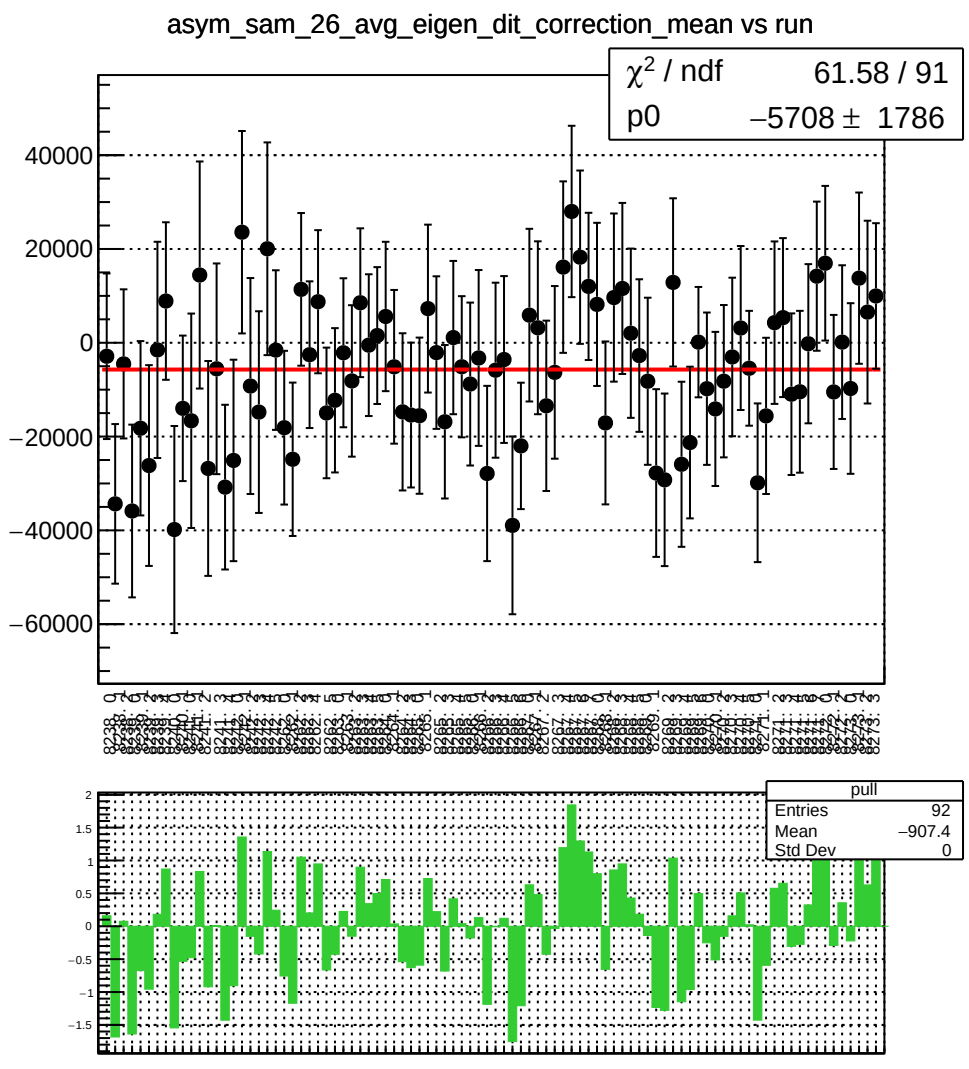

pull1D
Entries 92
Mean −0.005303
Std Dev 0.8181
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

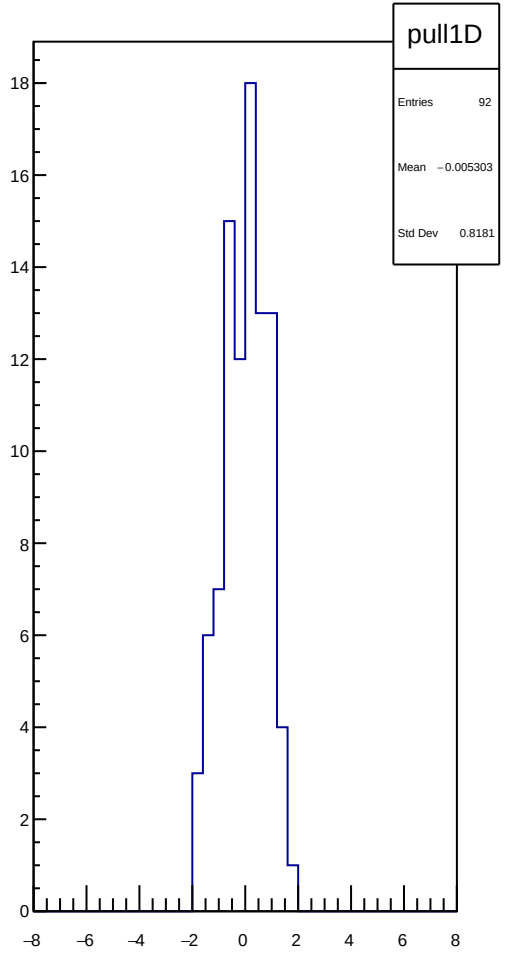

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 2.032e+04 / 91
p0 1676 ± 1.263
2400
2200
2000
1800
1600
1400

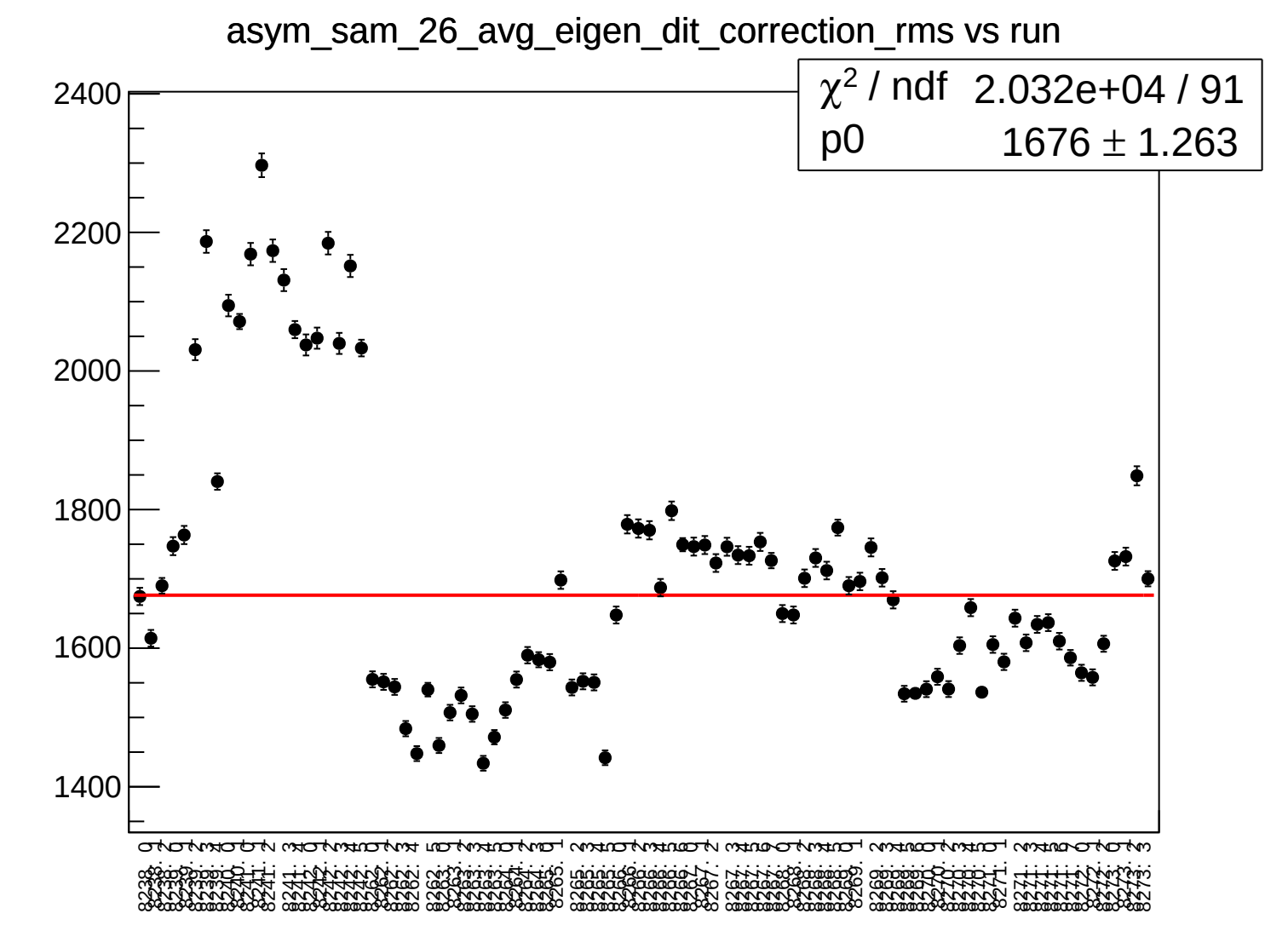

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 102.7 / 91
p0 19.62 ± 164.9
pull
Entries 92
Mean 103.2
Std Dev 88.32

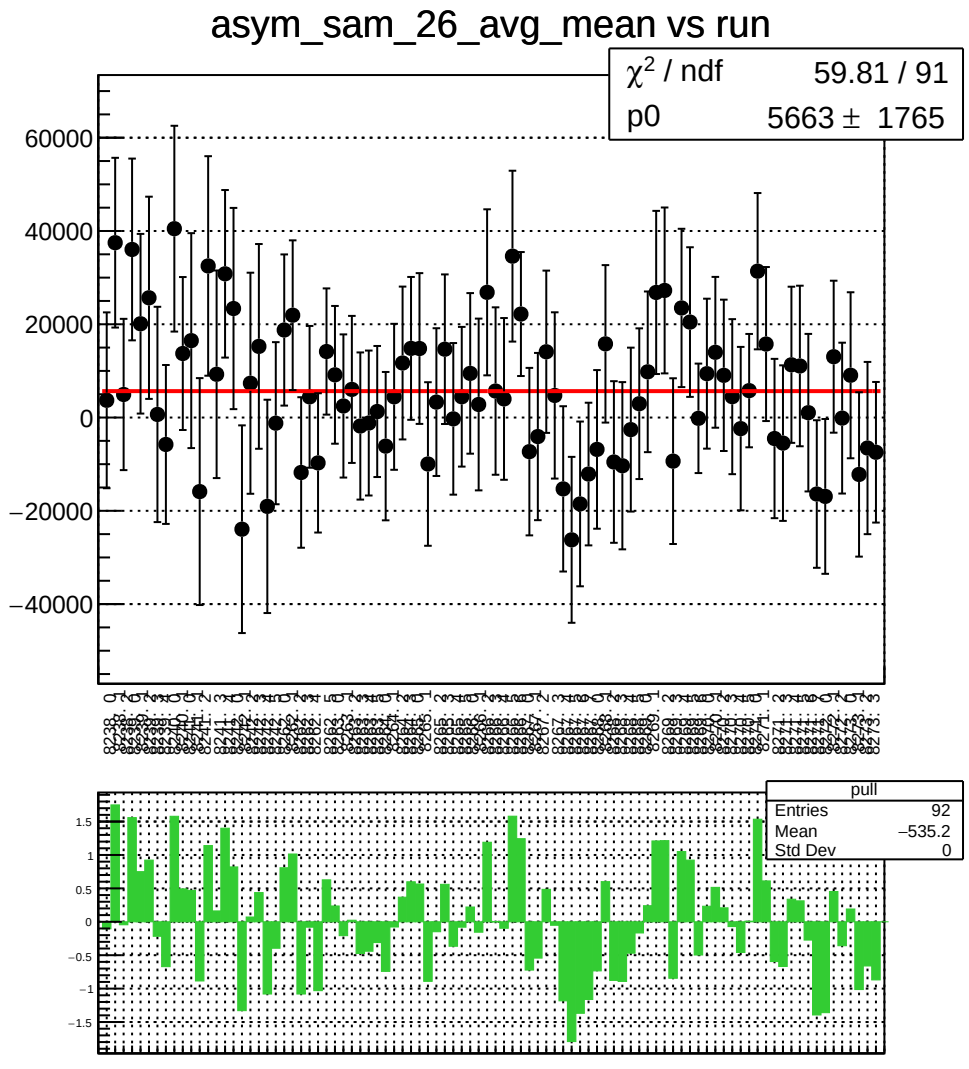

pull1D
Entries 92
Mean 0.01624
Std Dev 1.057

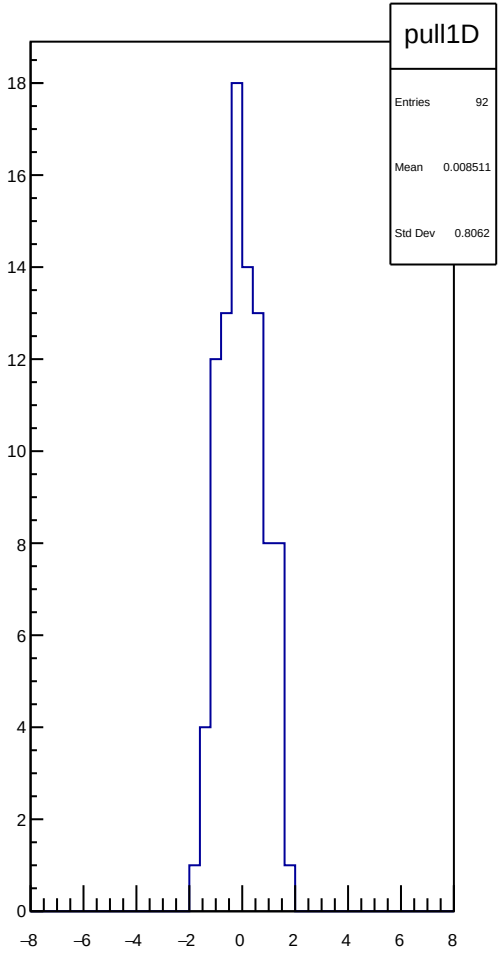

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 4.754e+04 / 91
p0 153.6 ± 0.1166
320
300
280
260
240
220
200
180
160
140
120

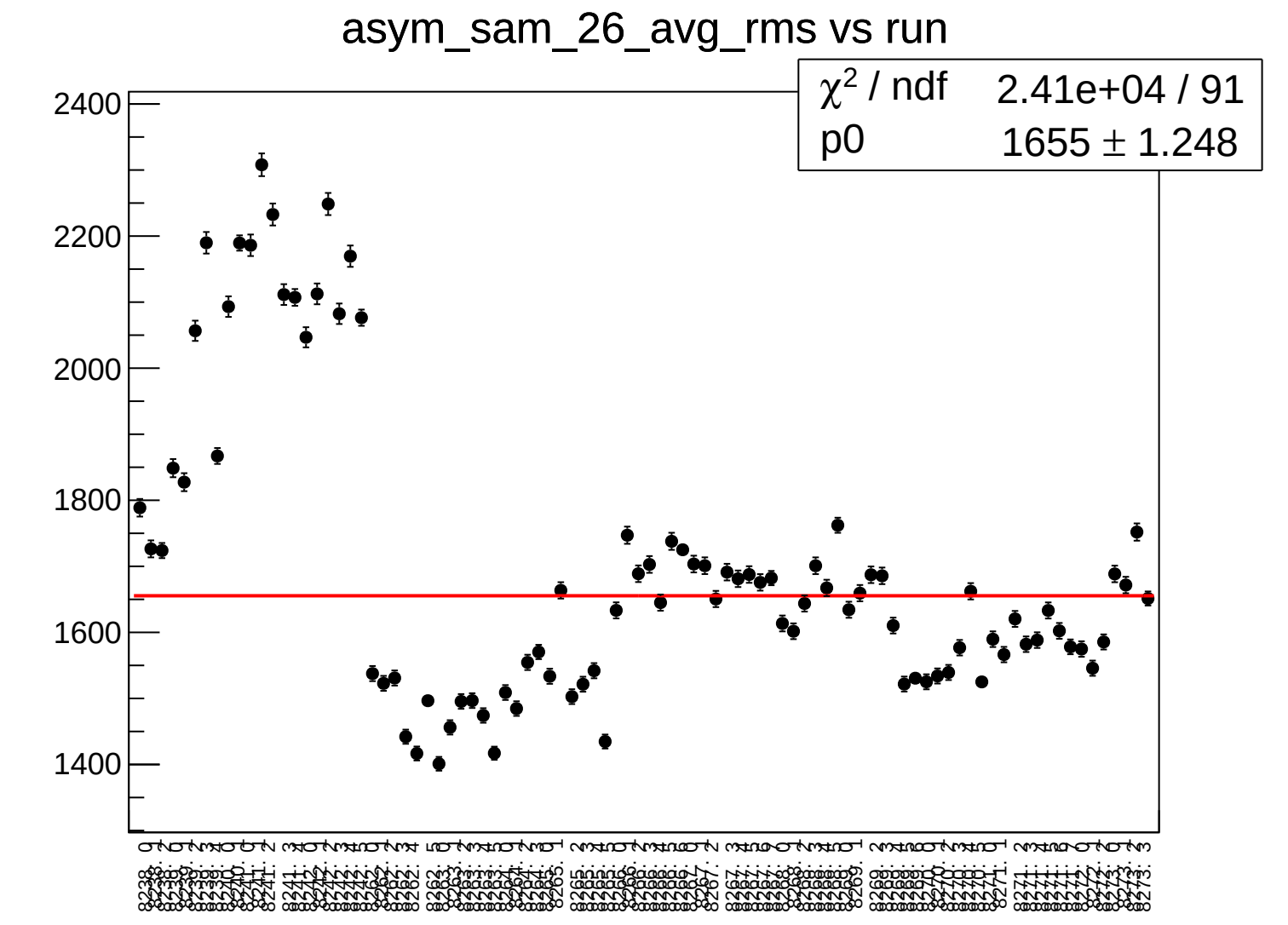

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 61.58 / 91
p0 −5708 ± 1786
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −907.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

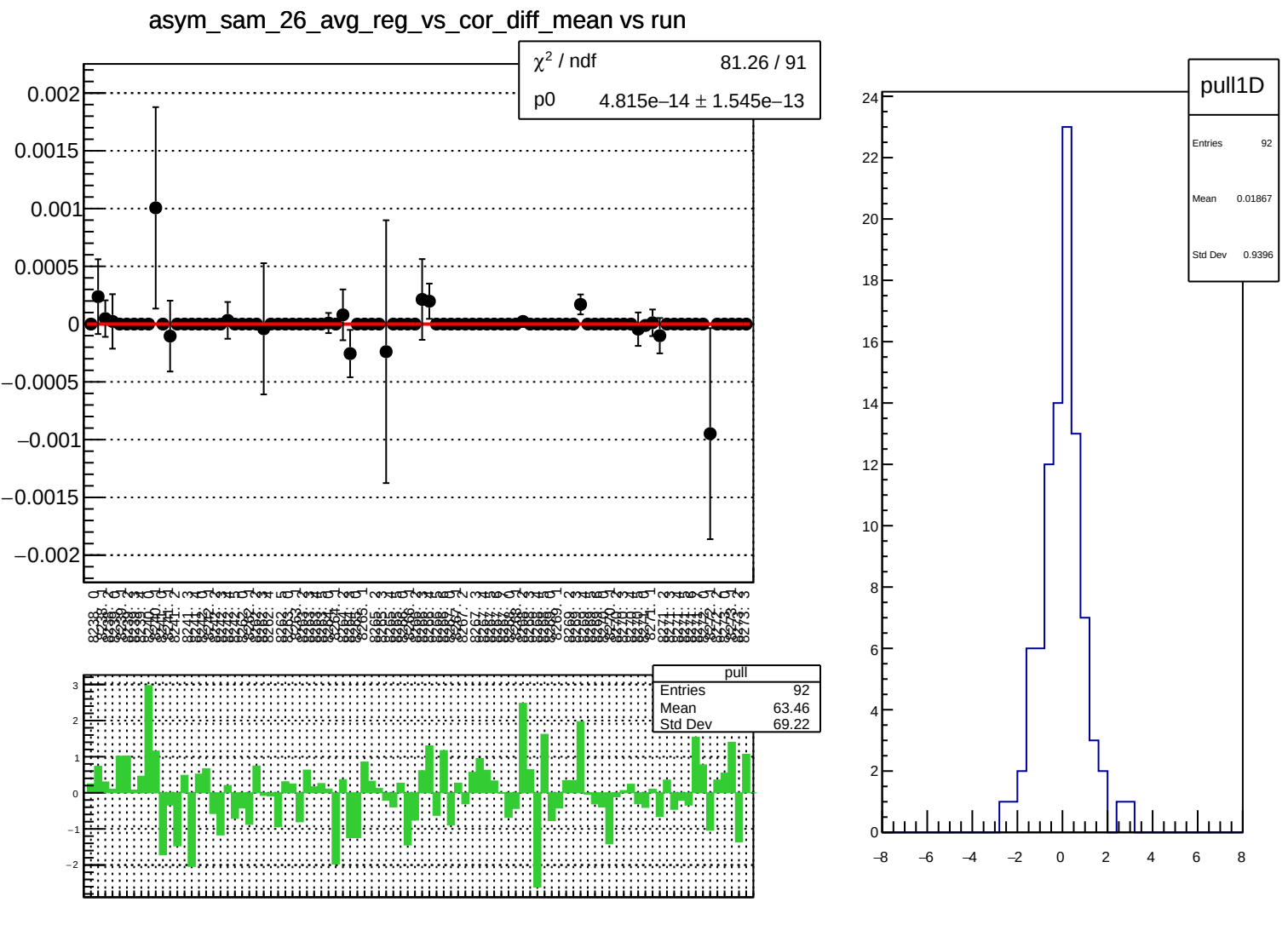

pull1D
Entries 92
Mean −0.005303
Std Dev 0.8181
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

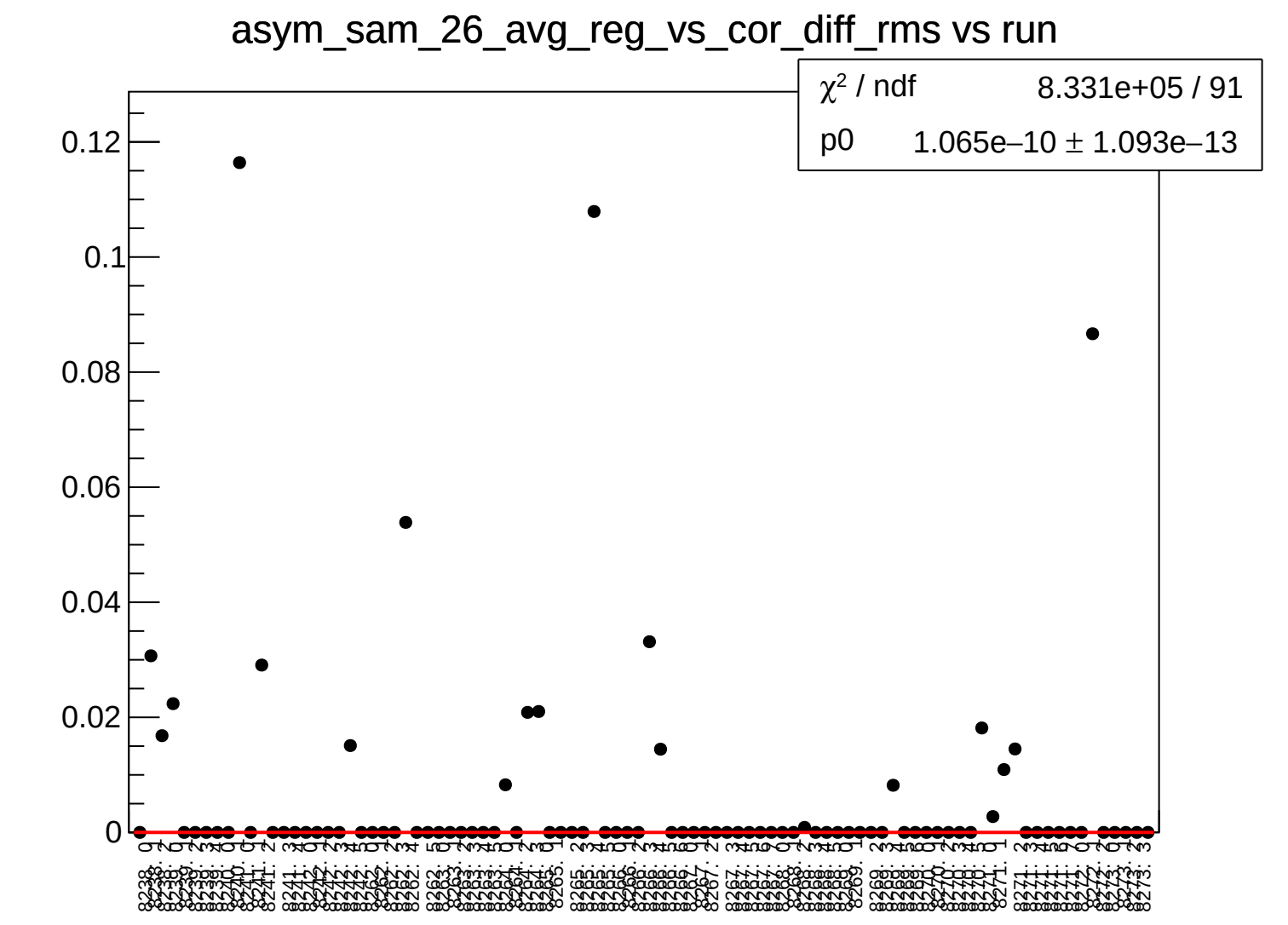

asym_sam_26_avg_eigen_dit_correction_rms vs run
$\chi^2$ / ndf 2.032e+04 / 91
p0 1676 ± 1.263
2400
2200
2000
1800
1600
1400

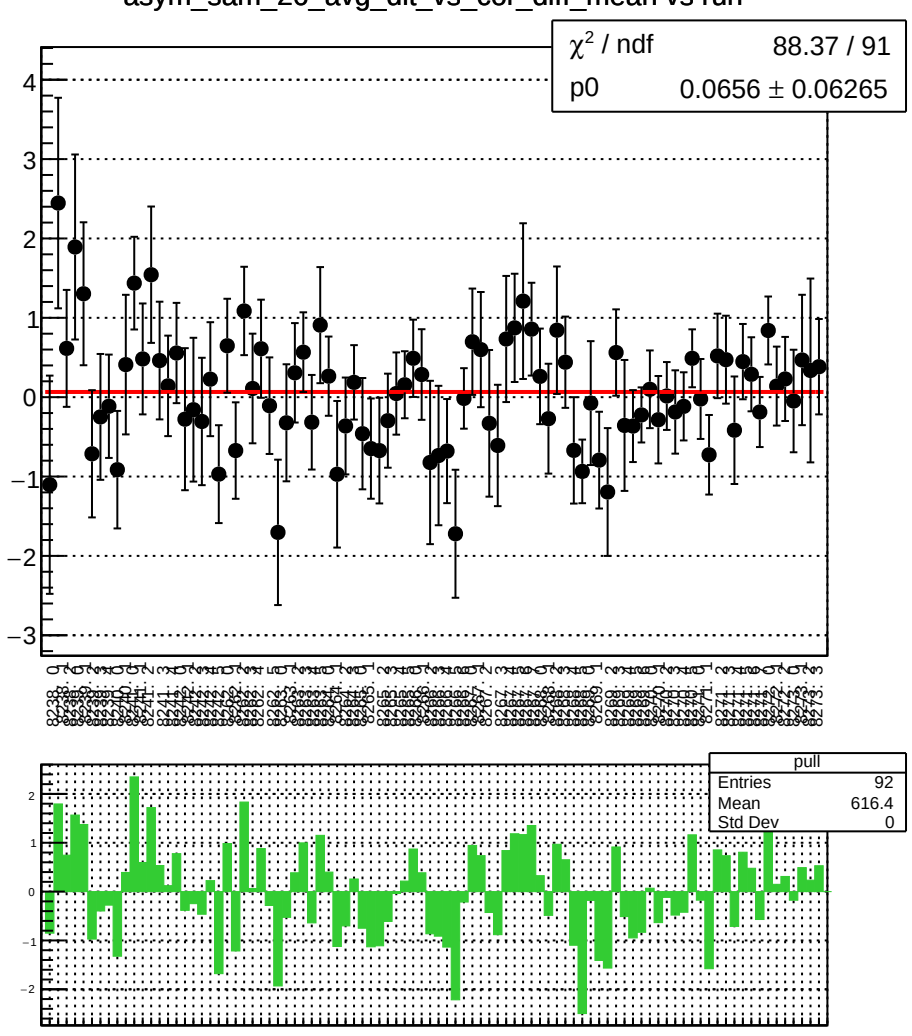

asym_sam_26_avg_mean vs run
χ² / ndf 59.81 / 91
p0 5663 ± 1765
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −535.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

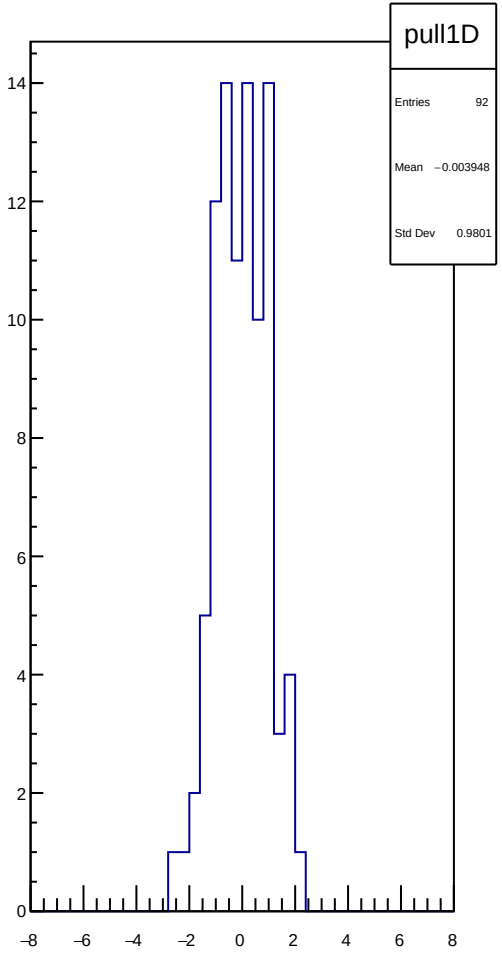

pull1D
Entries 92
Mean 0.008511
Std Dev 0.8062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

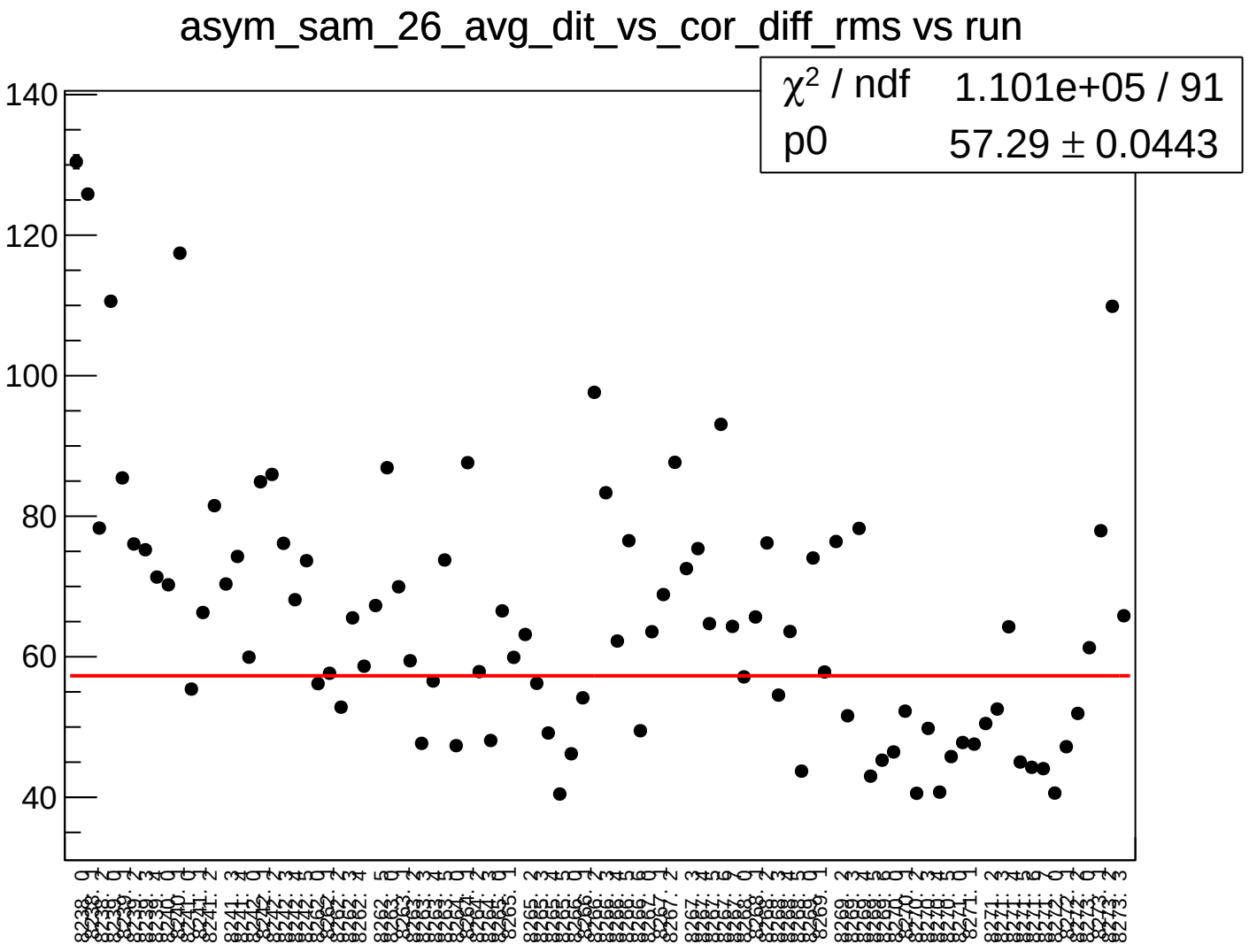

asym_sam_26_avg_rms vs run
$\chi^2$ / ndf 2.41e+04 / 91
p0 1655 ± 1.248
2400
2200
2000
1800
1600
1400

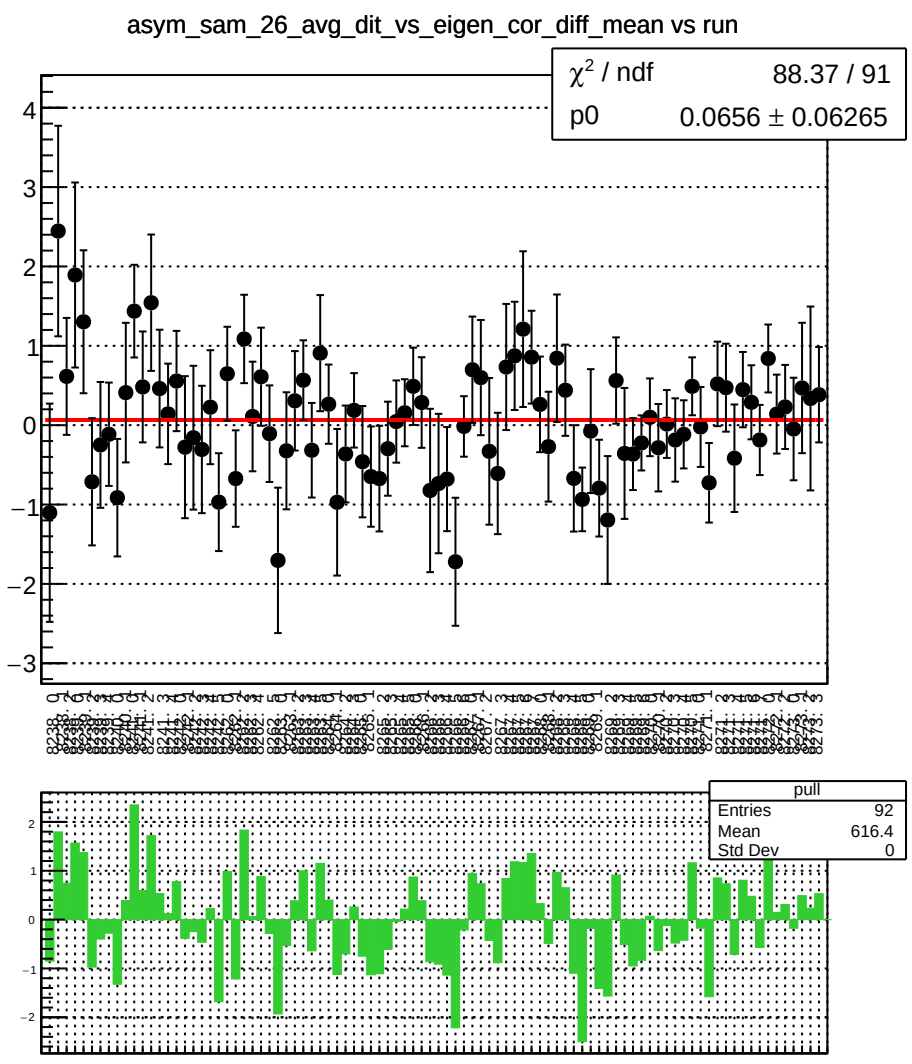

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.26 / 91
p0 4.815e−14 ± 1.545e−13
pull
Entries 92
Mean 63.46
Std Dev 69.22
pull1D
Entries 92
Mean 0.01867
Std Dev 0.9396

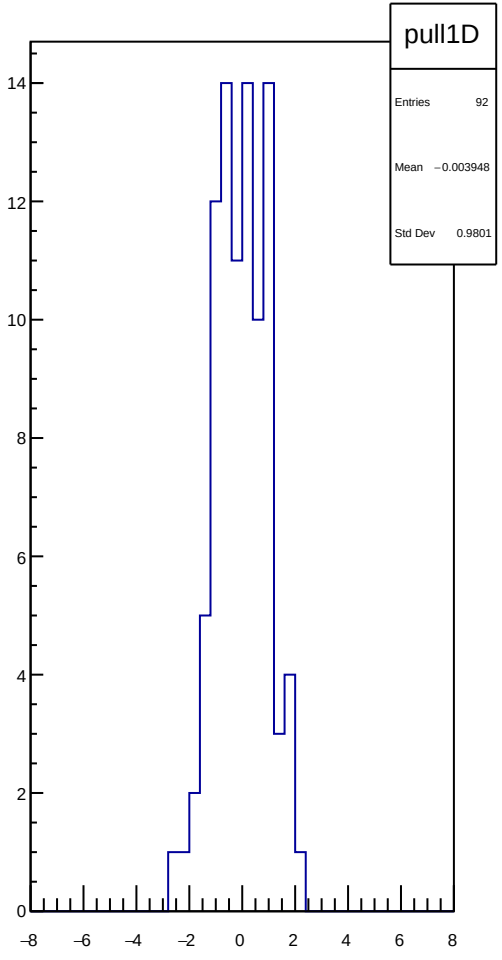

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.331e+05 / 91
p0 1.065e−10 ± 1.093e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

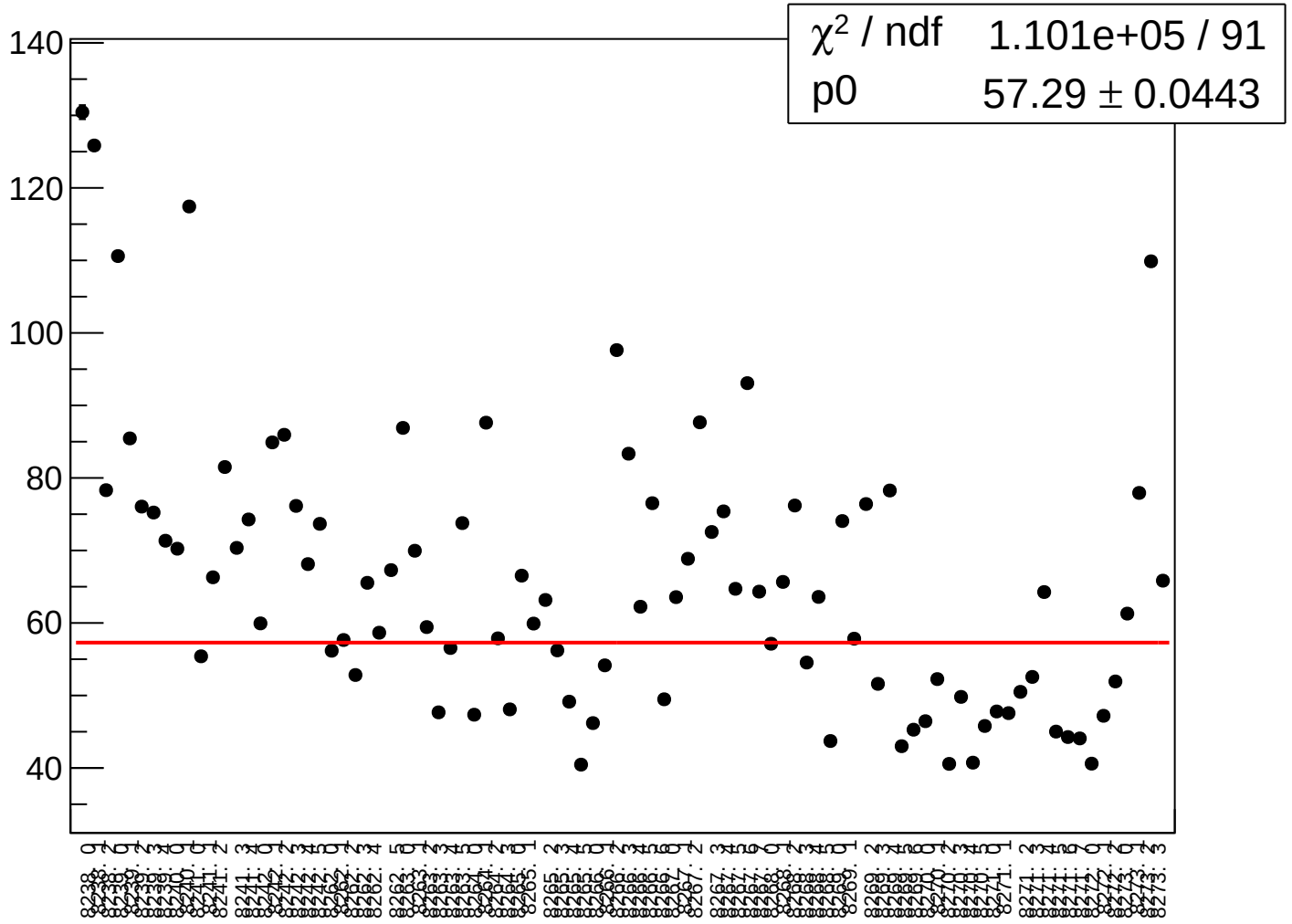

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.37 / 91
p0 0.0656 ± 0.06265
pull
Entries 92
Mean 616.4
Std Dev 0

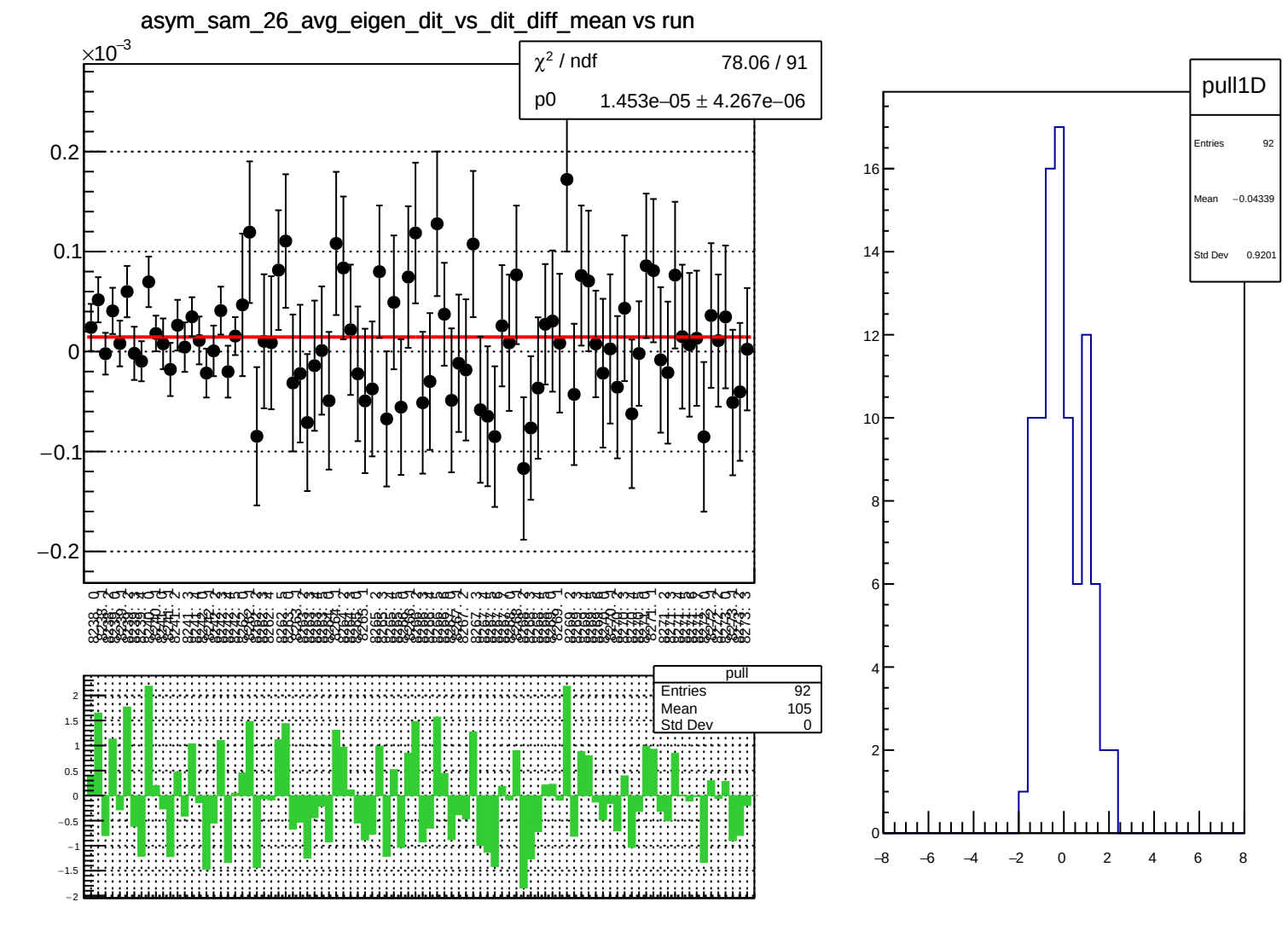

pull1D
Entries 92
Mean −0.003948
Std Dev 0.9801

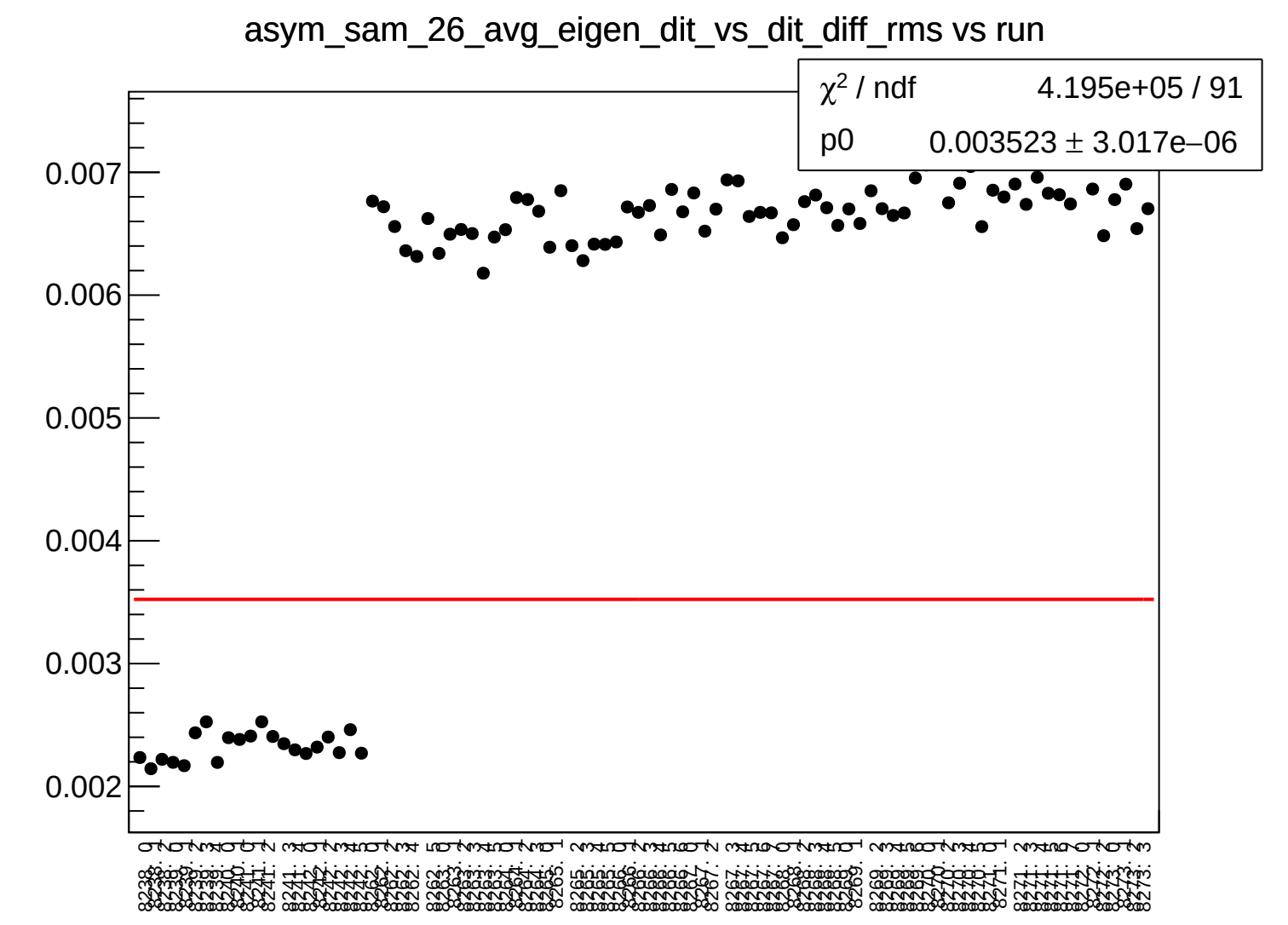

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.101e+05 / 91
p0 57.29 ± 0.0443
140
120
100
80
60
40

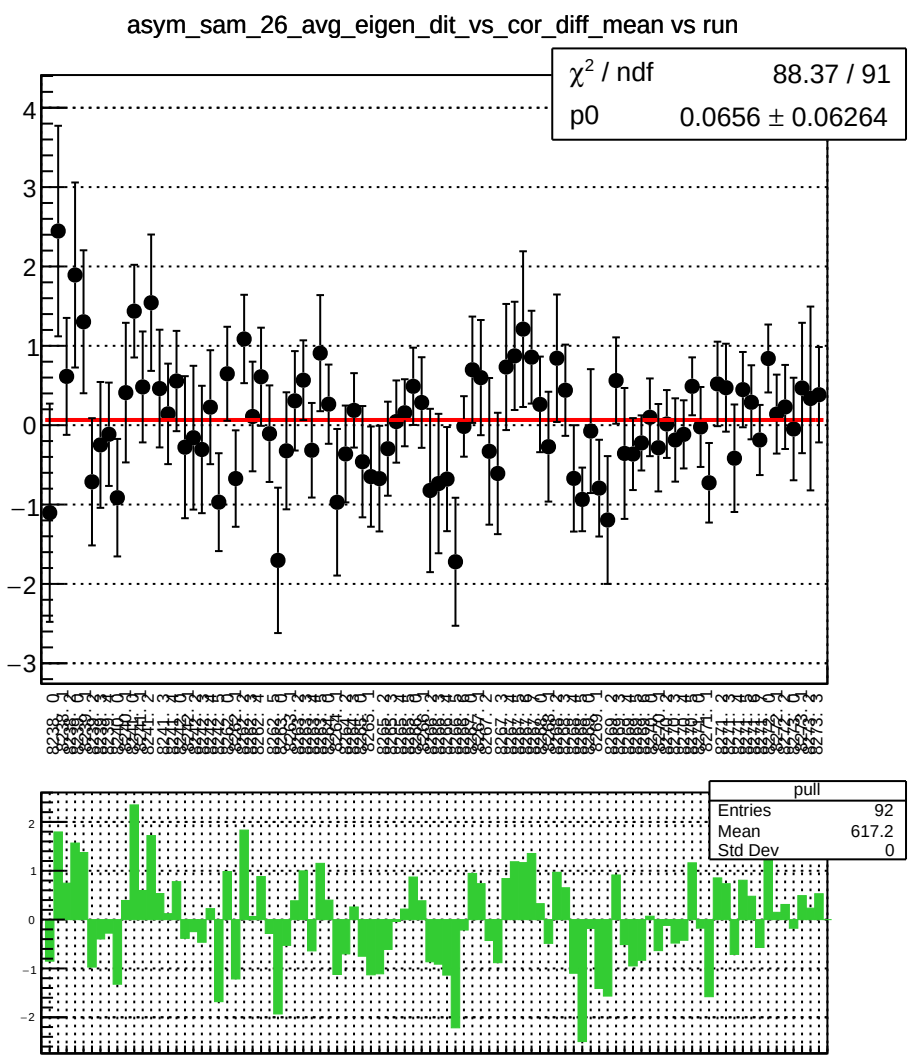

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.37 / 91
p0 0.0656 ± 0.06265
pull
Entries 92
Mean 616.4
Std Dev 0

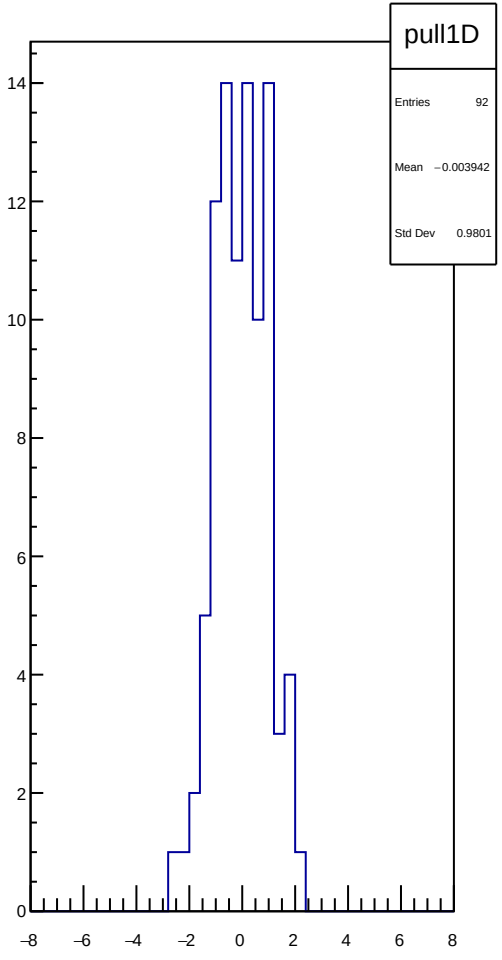

pull1D
Entries 92
Mean −0.003948
Std Dev 0.9801

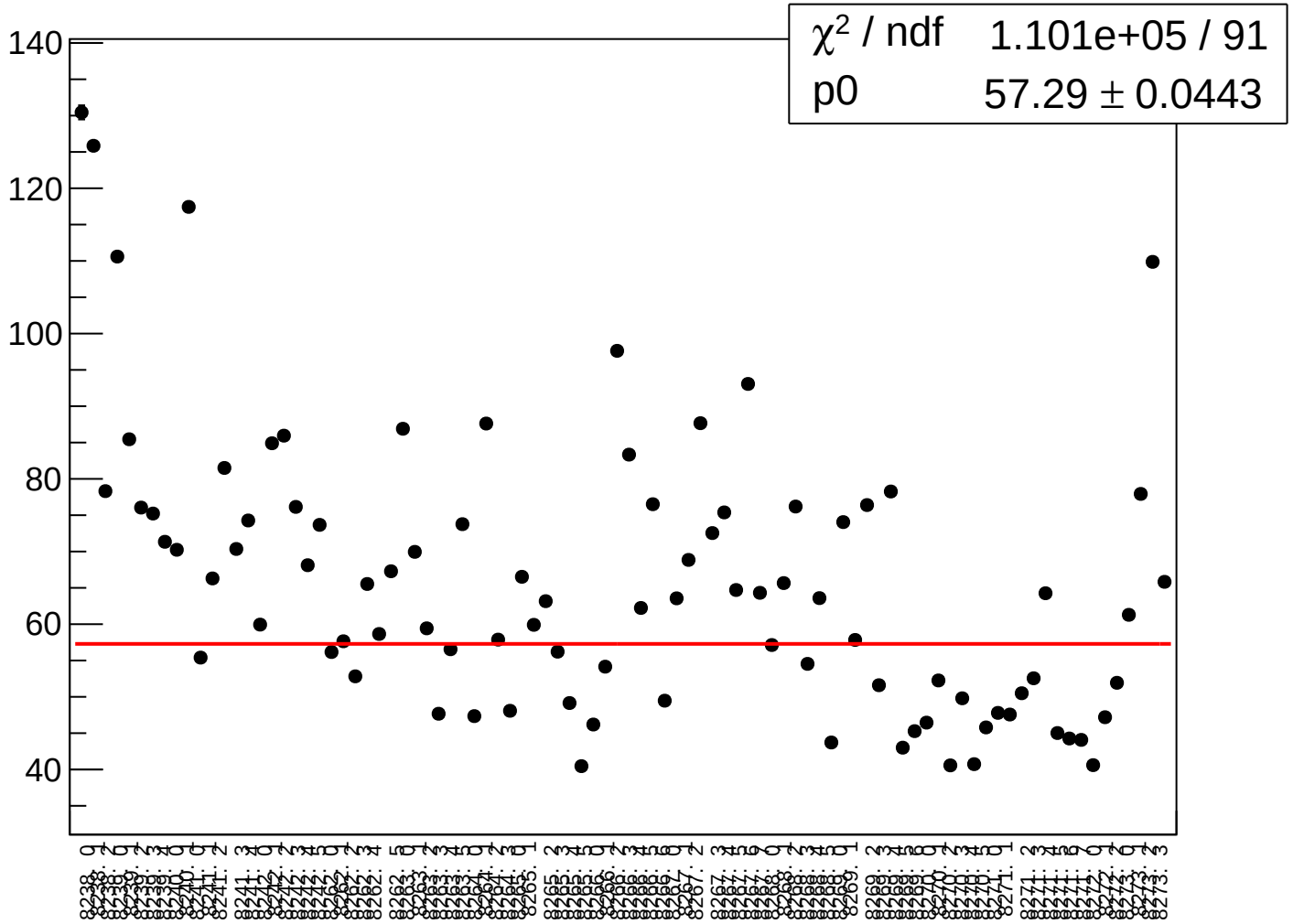

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.101e+05 / 91
p0 57.29 ± 0.0443
140
120
100
80
60
40

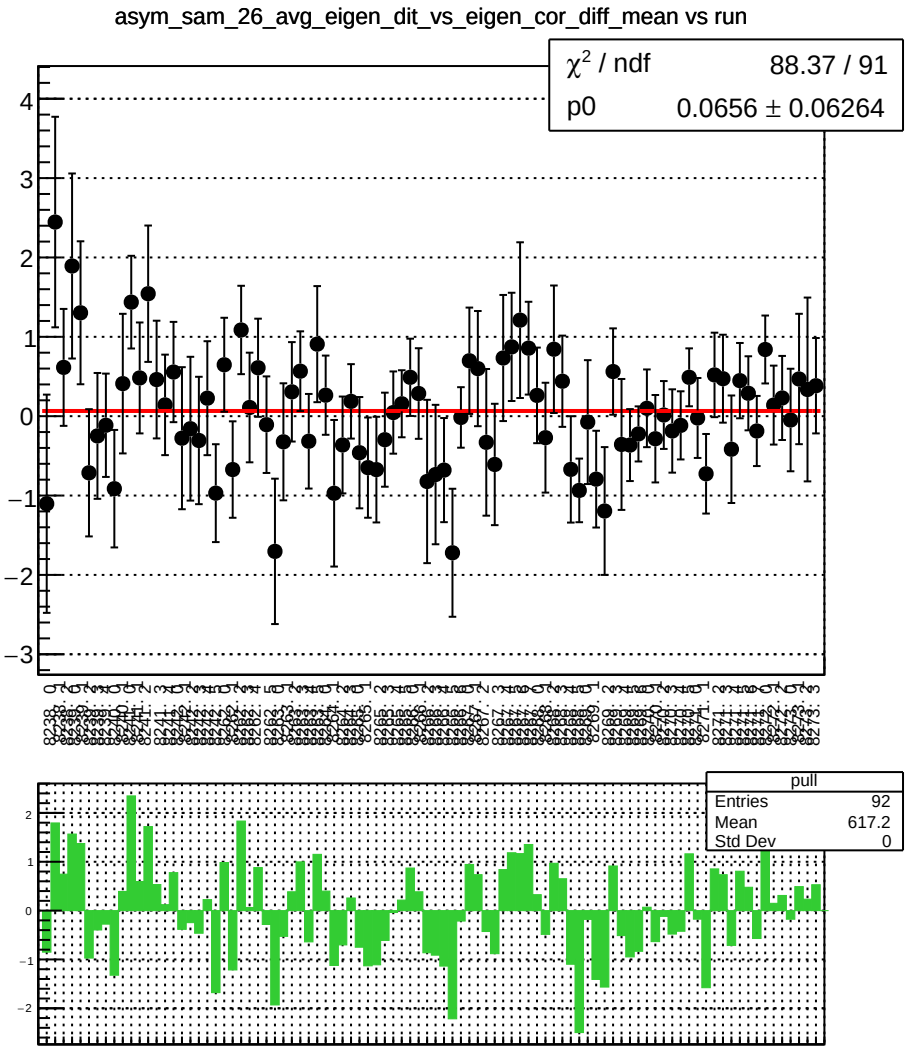

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.06 / 91
p0 1.453e−05 ± 4.267e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 92
Mean 105
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.04339
Std Dev 0.9201
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

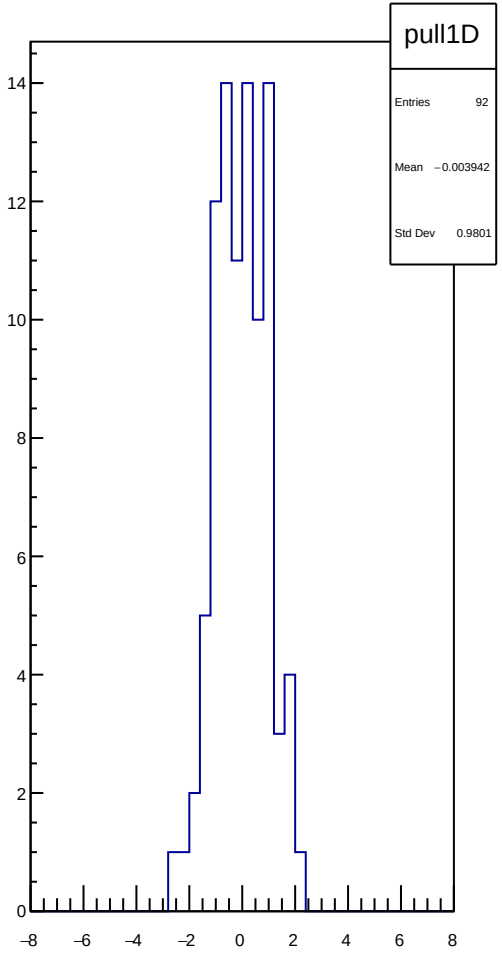

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.195e+05 / 91
p0 0.003523 ± 3.017e−06
0.007
0.006
0.005
0.004
0.003
0.002

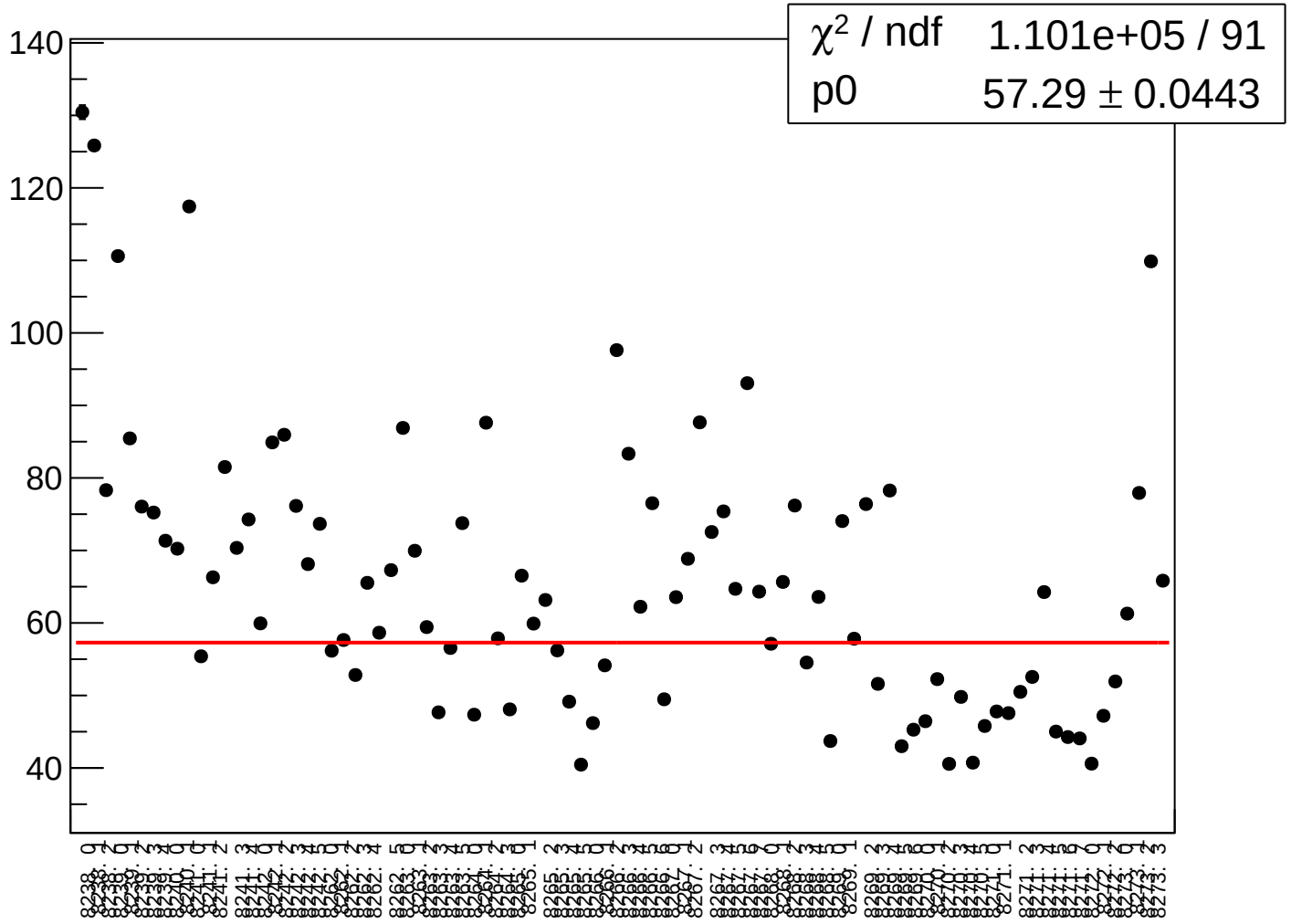

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.37 / 91
p0 0.0656 ± 0.06264
pull
Entries 92
Mean 617.2
Std Dev 0

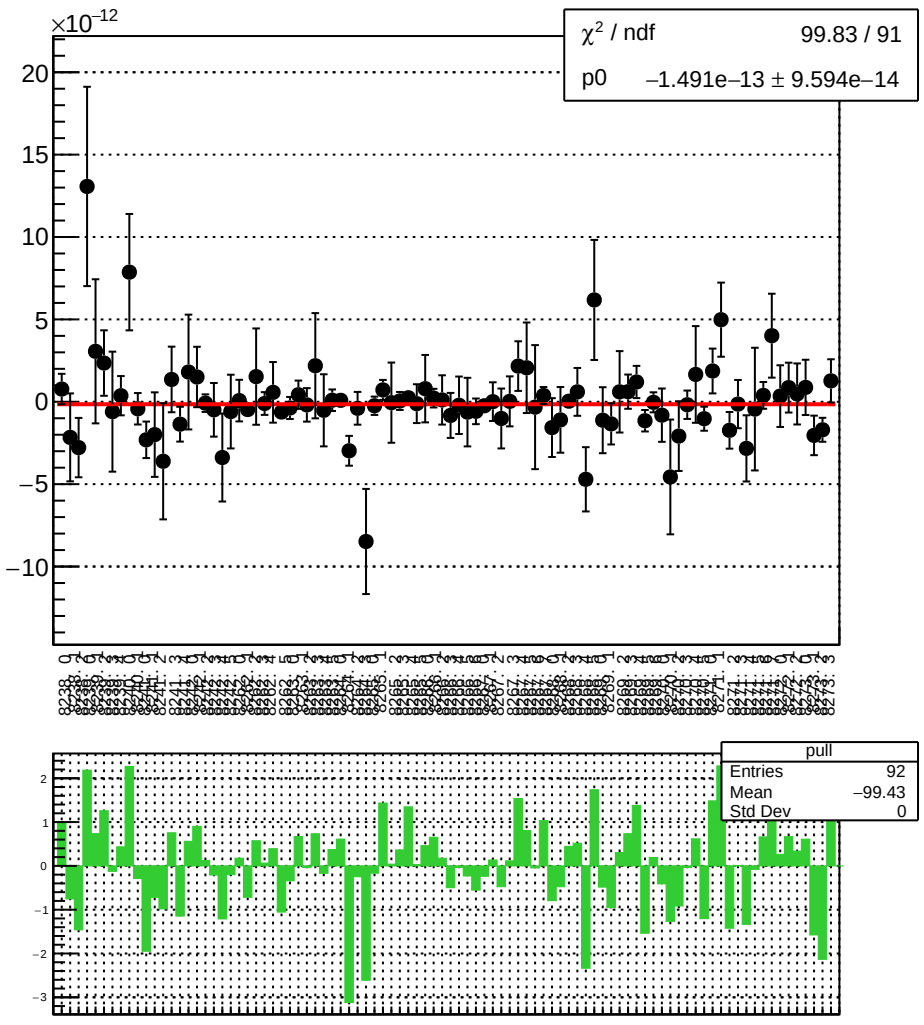

pull1D
Entries 92
Mean −0.003942
Std Dev 0.9801

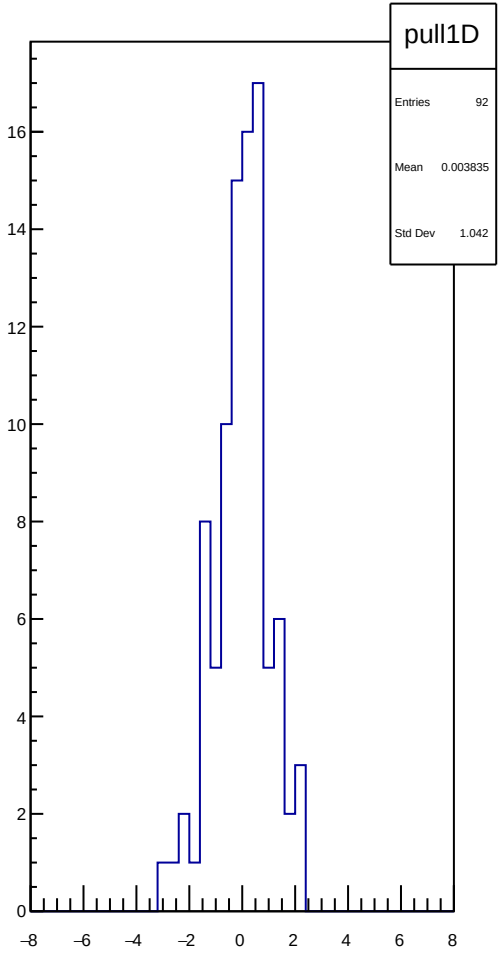

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.101e+05 / 91
p0 57.29 ± 0.0443
140
120
100
80
60
40

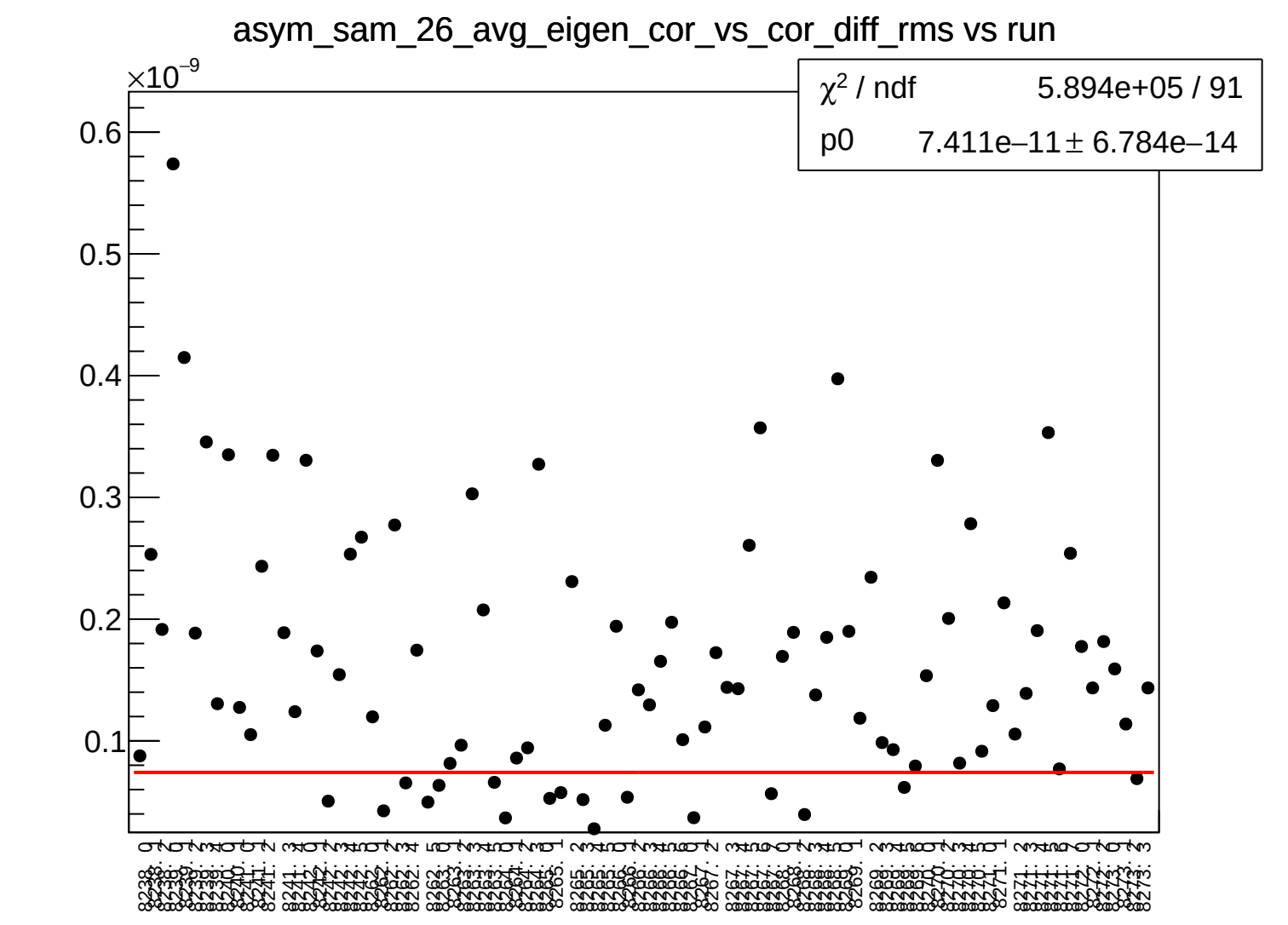

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.37 / 91
p0 0.0656 ± 0.06264
pull
Entries 92
Mean 617.2
Std Dev 0

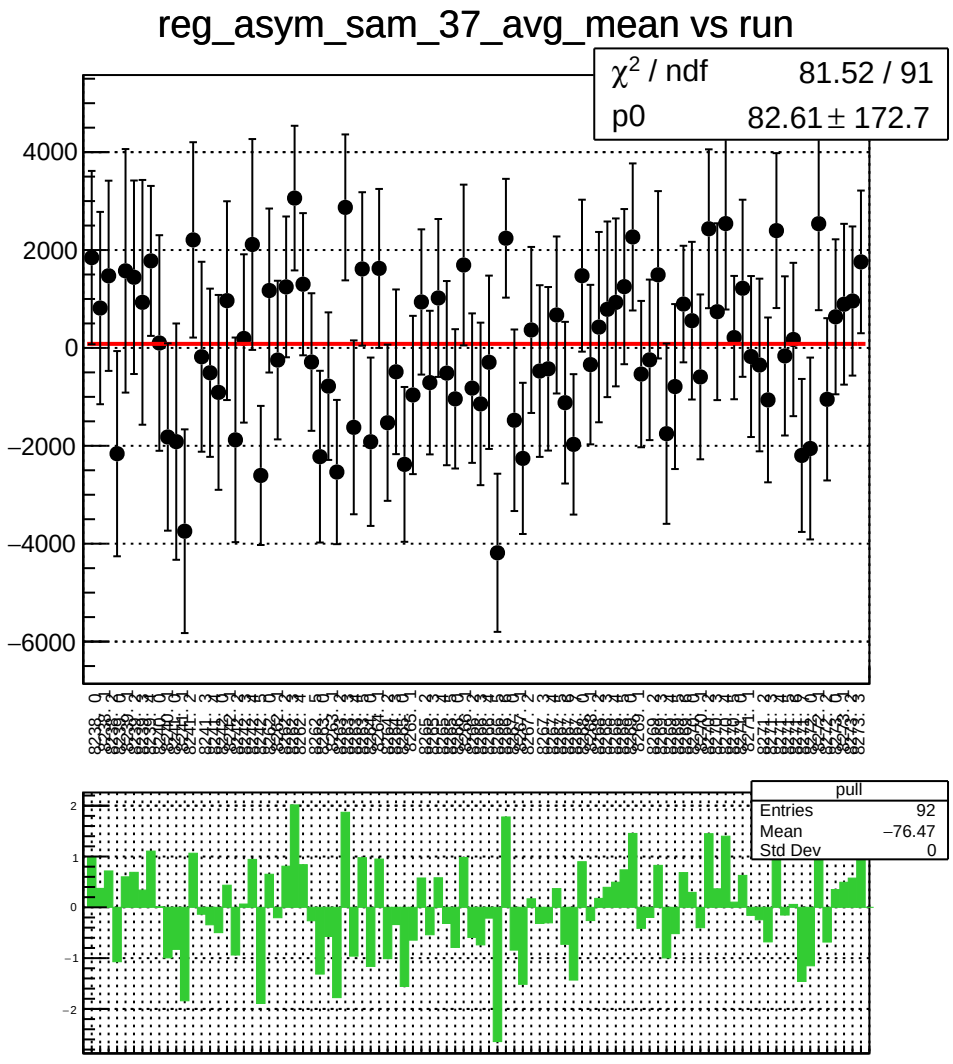

pull1D
Entries 92
Mean −0.003942
Std Dev 0.9801

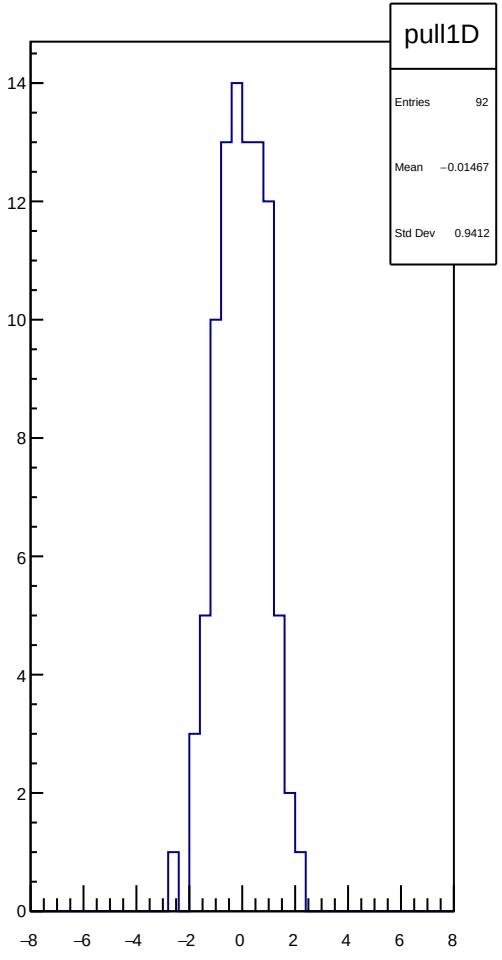

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.101e+05 / 91
p0 57.29 ± 0.0443
140
120
100
80
60
40

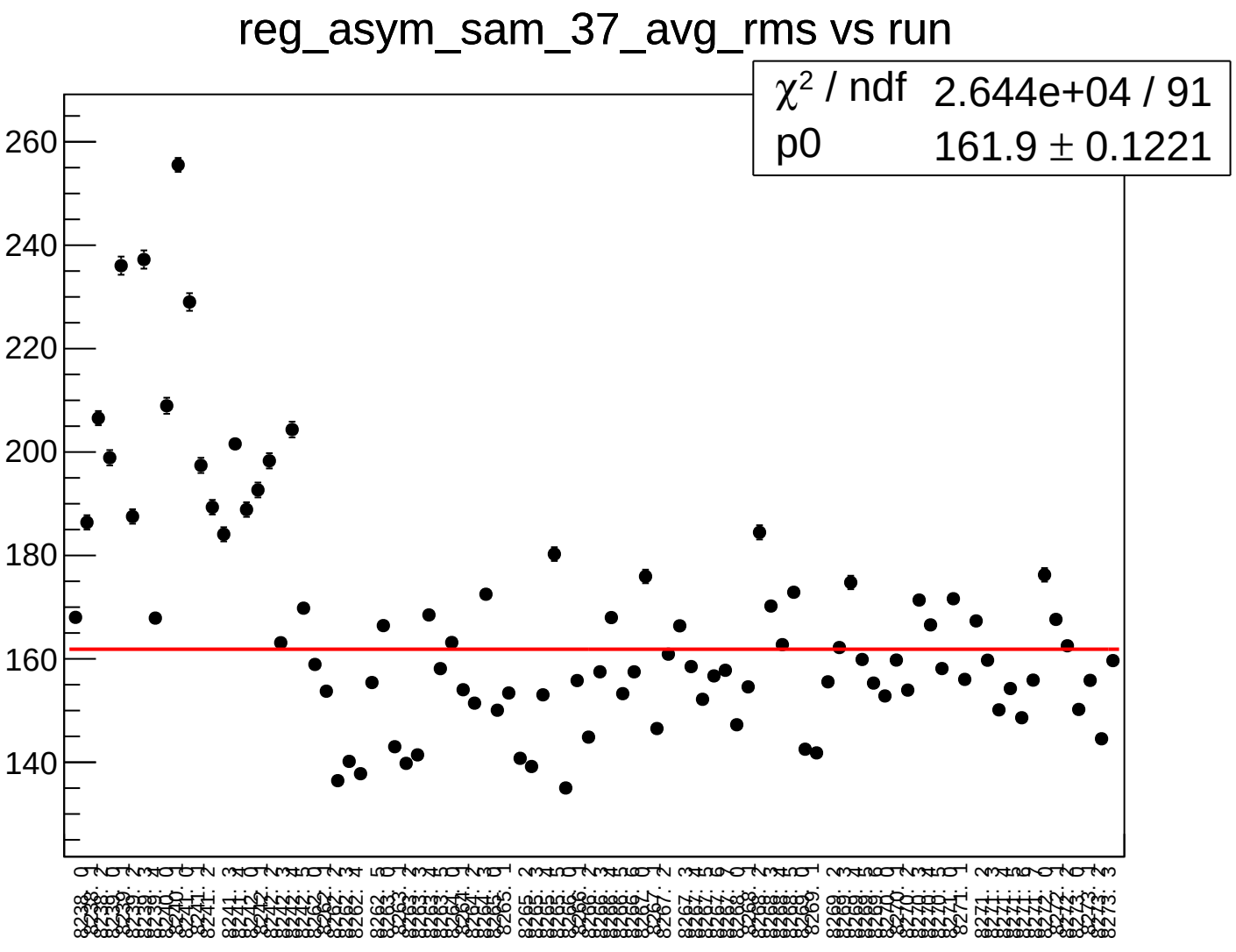

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.83 / 91
p0 −1.491e−13 ± 9.594e−14
pull
Entries 92
Mean −99.43
Std Dev 0

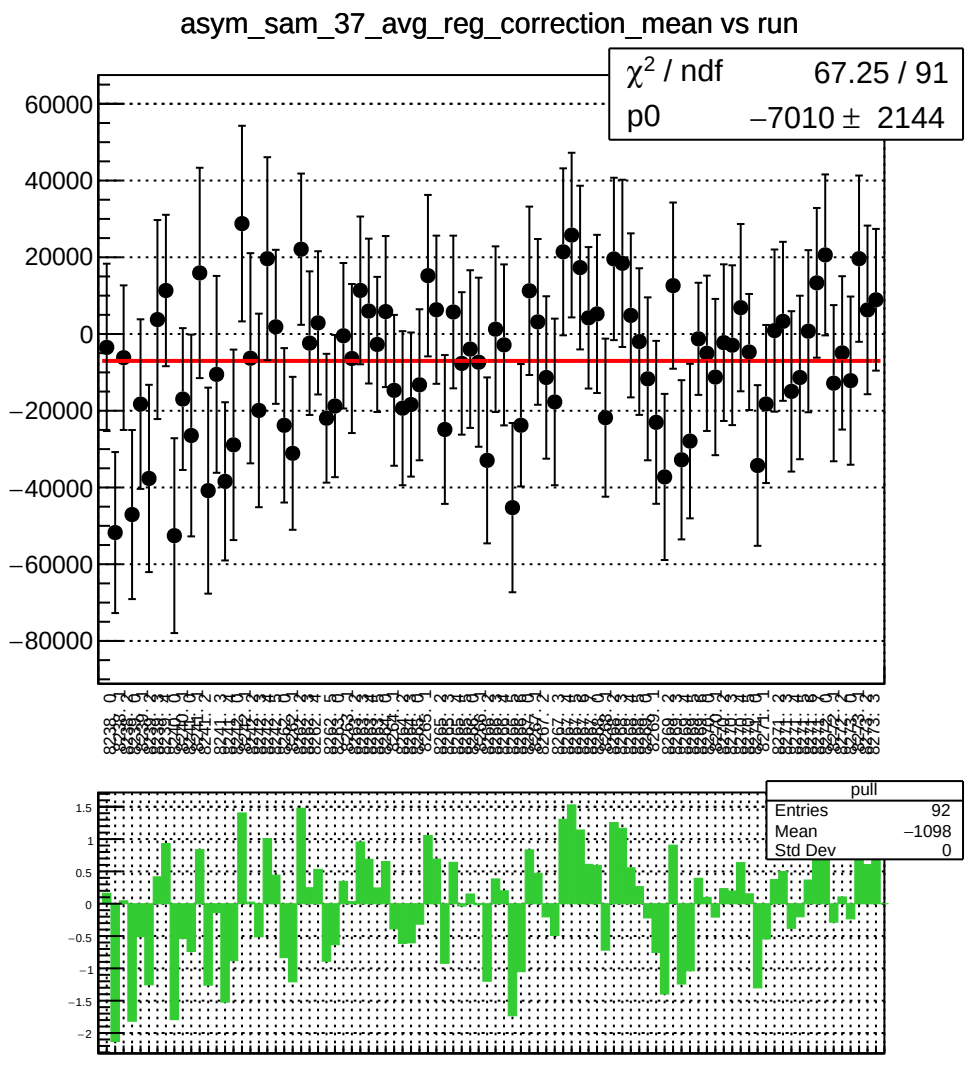

pull1D
Entries 92
Mean 0.003835
Std Dev 1.042

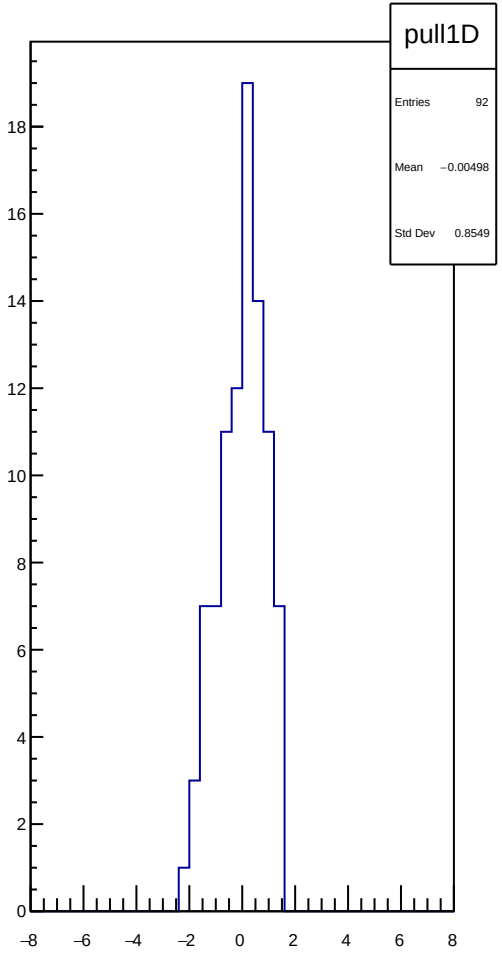

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.894e+05 / 91
p0 7.411e−11 ± 6.784e−14
0.6
0.5
0.4
0.3
0.2
0.1

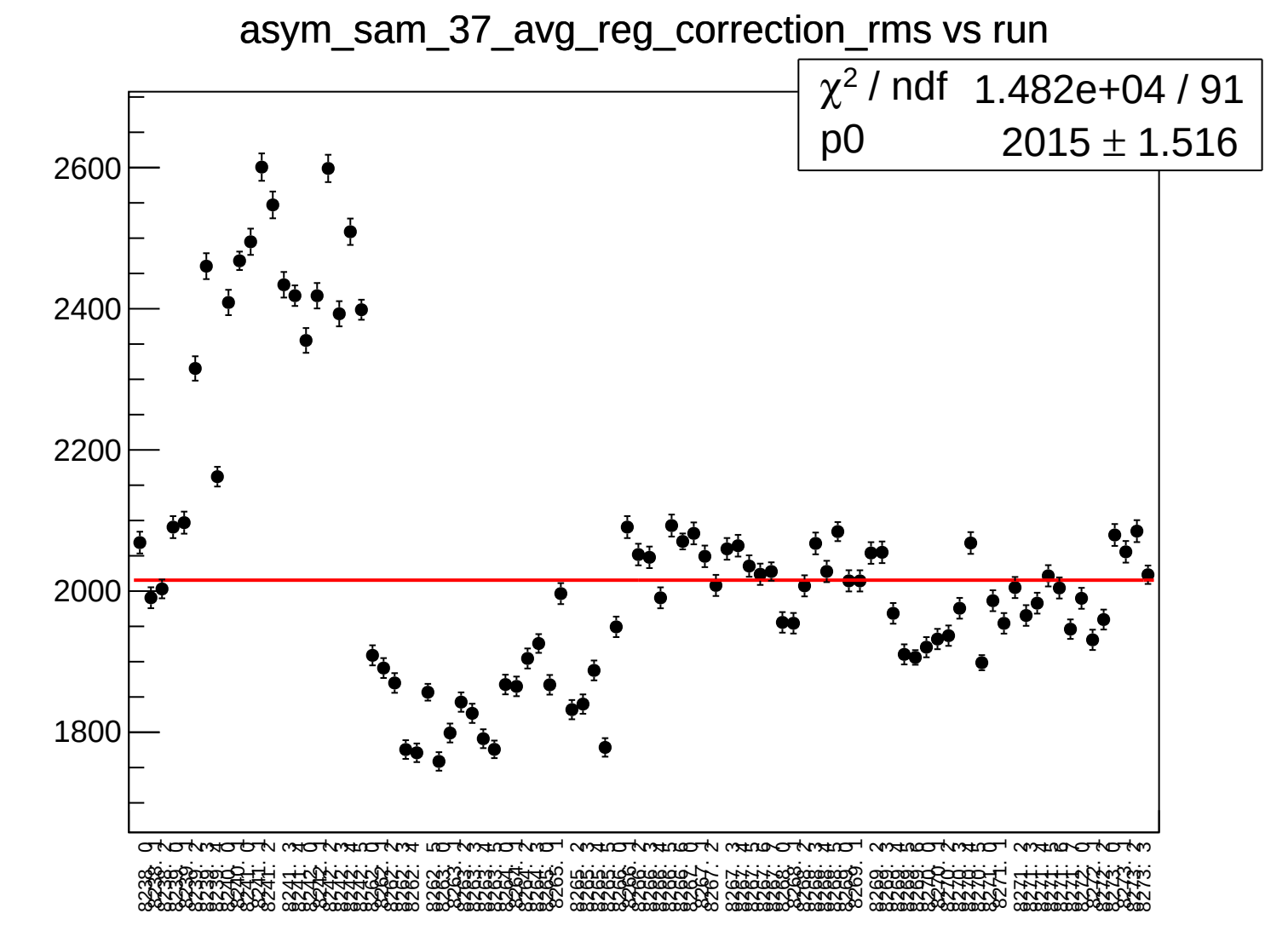

reg_asym_sam_37_avg_mean vs run
χ² / ndf 81.52 / 91
p0 82.61 ± 172.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −76.47
Std Dev 0
2
1
0
−1
−2

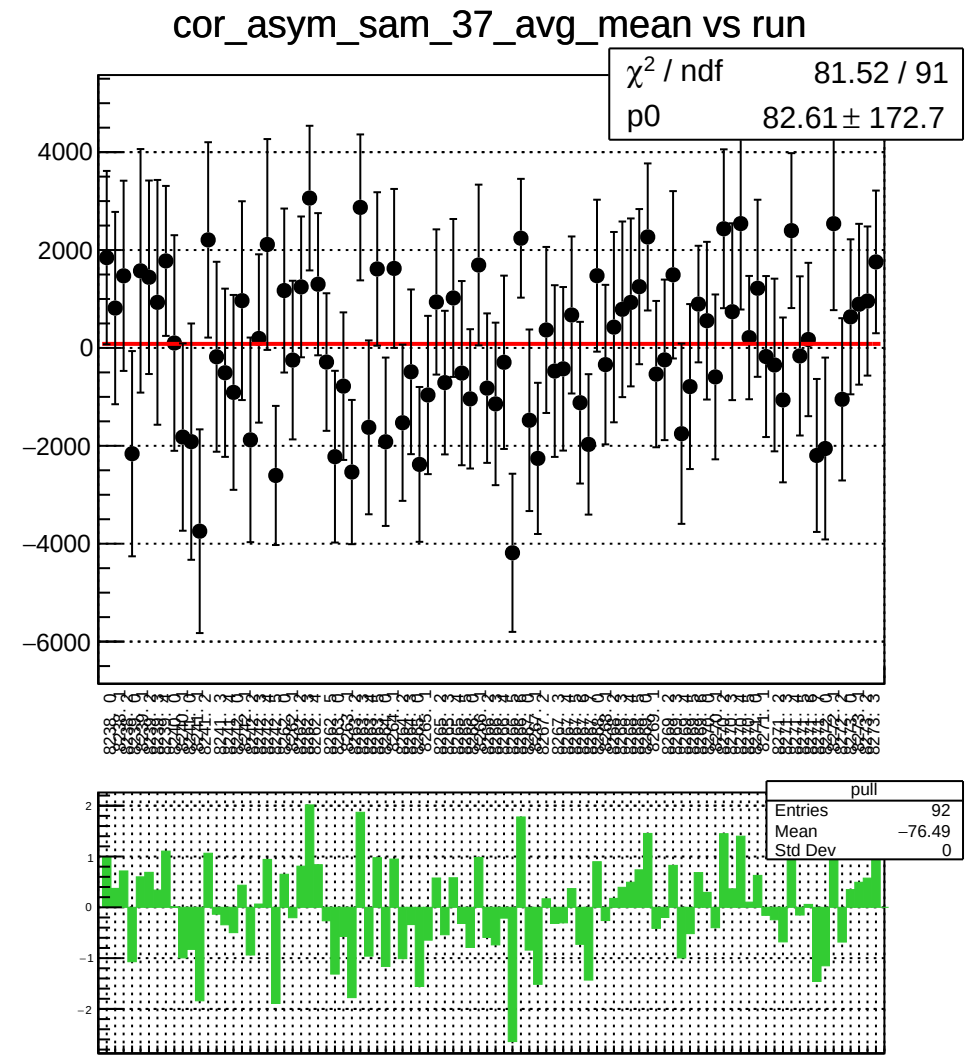

pull1D
Entries 92
Mean −0.01467
Std Dev 0.9412
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

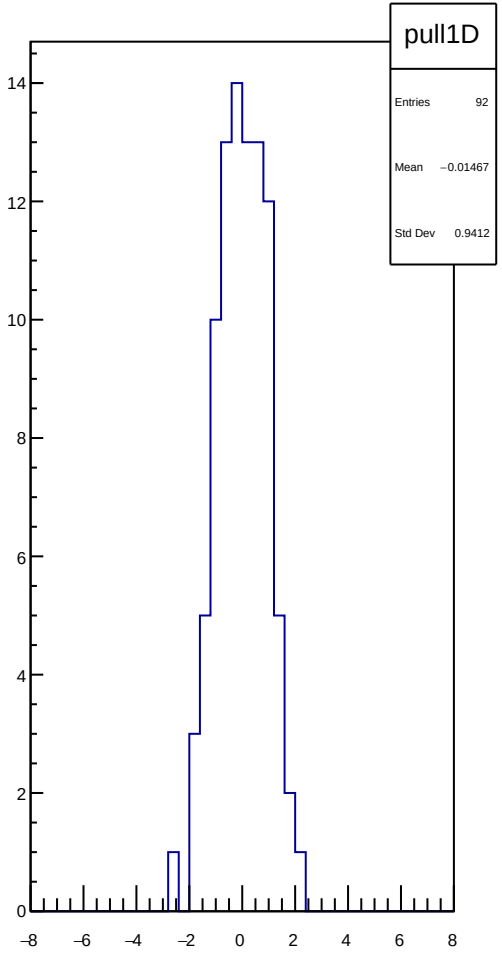

reg_asym_sam_37_avg_rms vs run
χ² / ndf 2.644e+04 / 91
p0 161.9 ± 0.1221
260
240
220
200
180
160
140

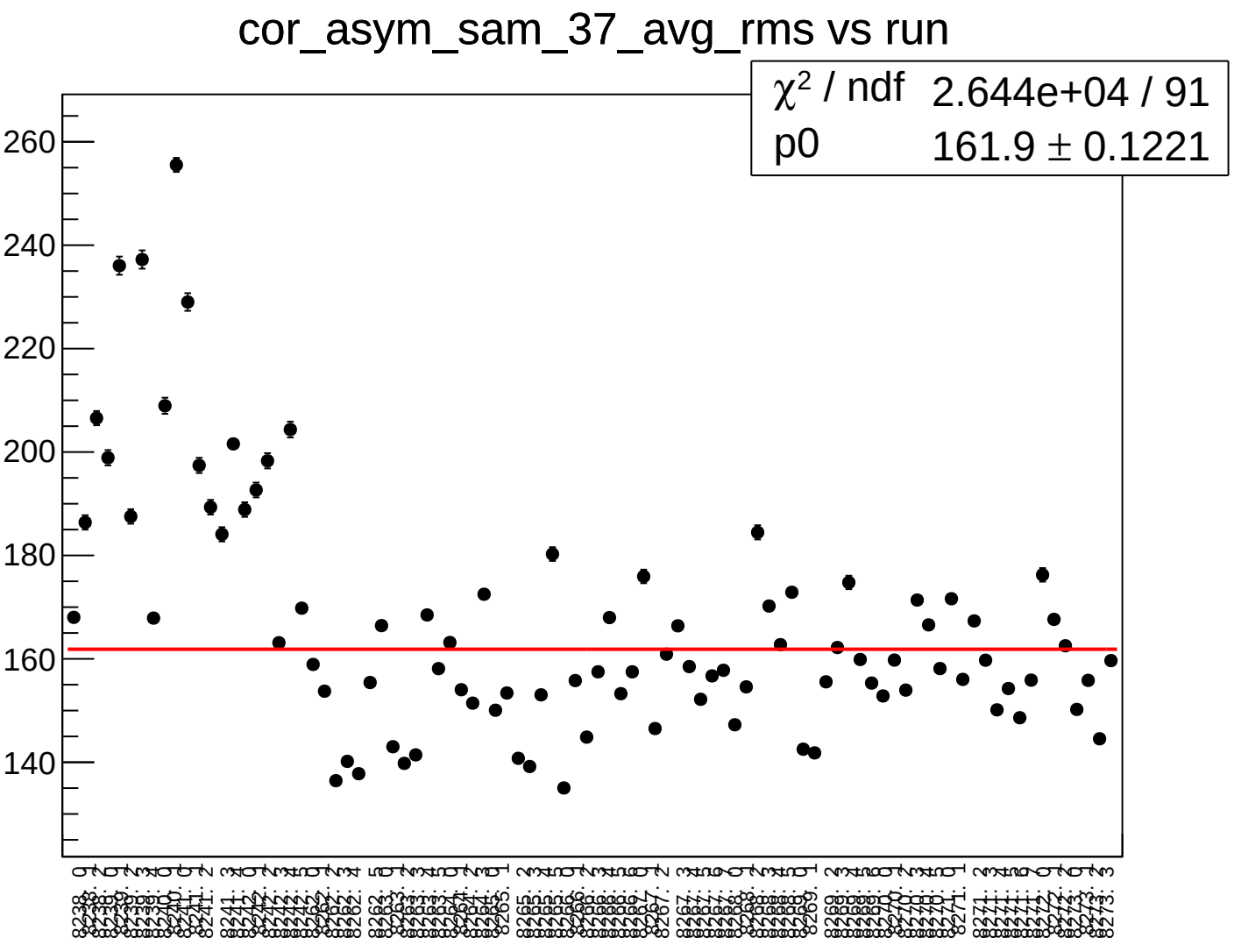

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 67.25 / 91
p0 −7010 ± 2144
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −1098
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

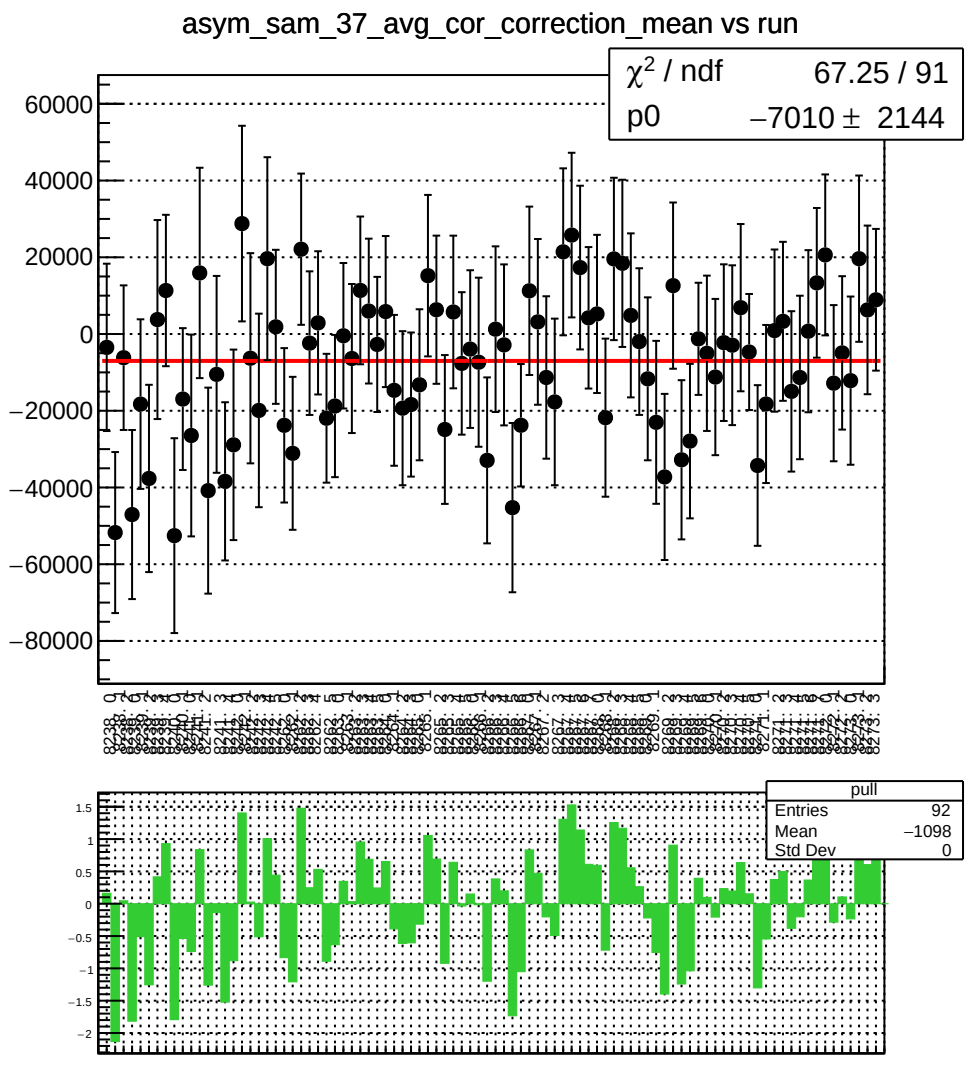

pull1D
Entries 92
Mean −0.00498
Std Dev 0.8549
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

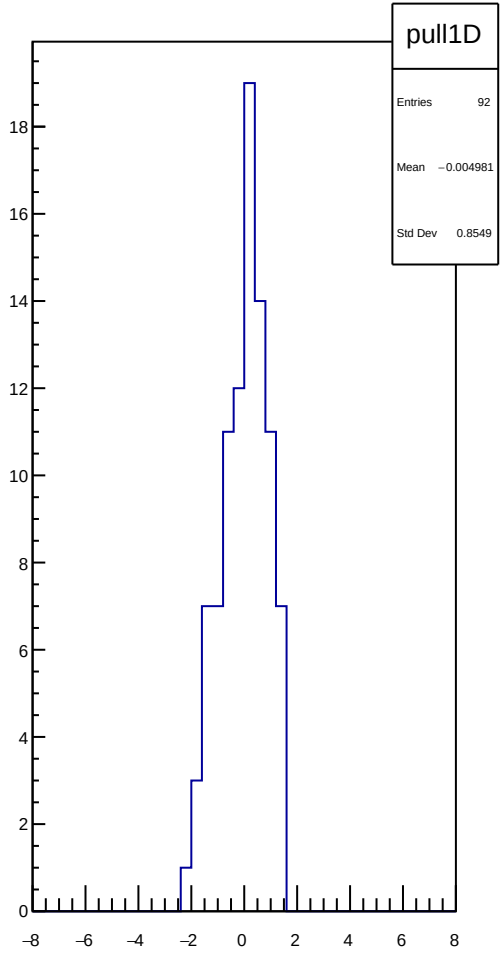

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 1.482e+04 / 91
p0 2015 ± 1.516
2600
2400
2200
2000
1800

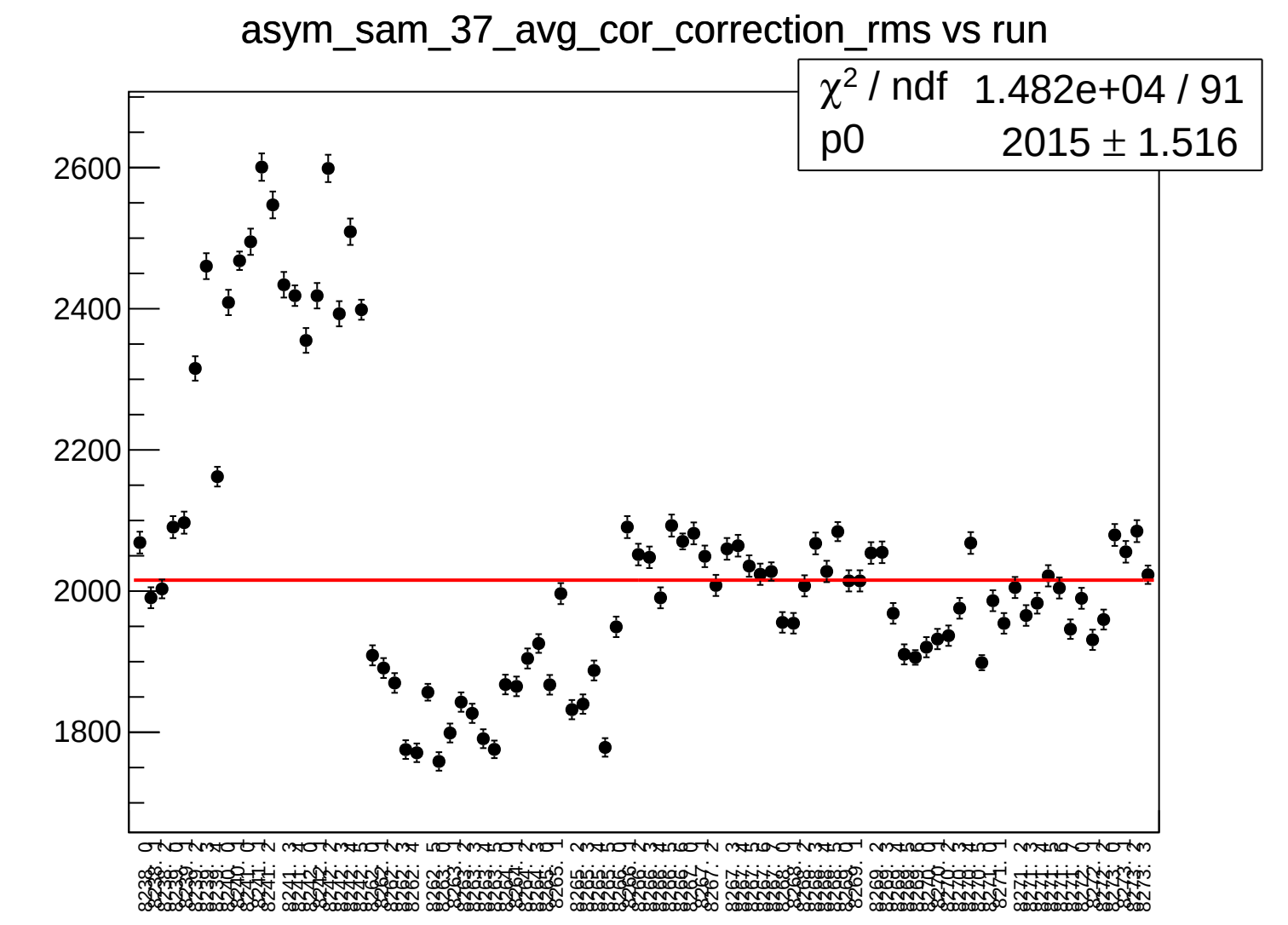

cor_asym_sam_37_avg_mean vs run
χ² / ndf 81.52 / 91
p0 82.61 ± 172.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −76.49
Std Dev 0
2
1
0
−1
−2

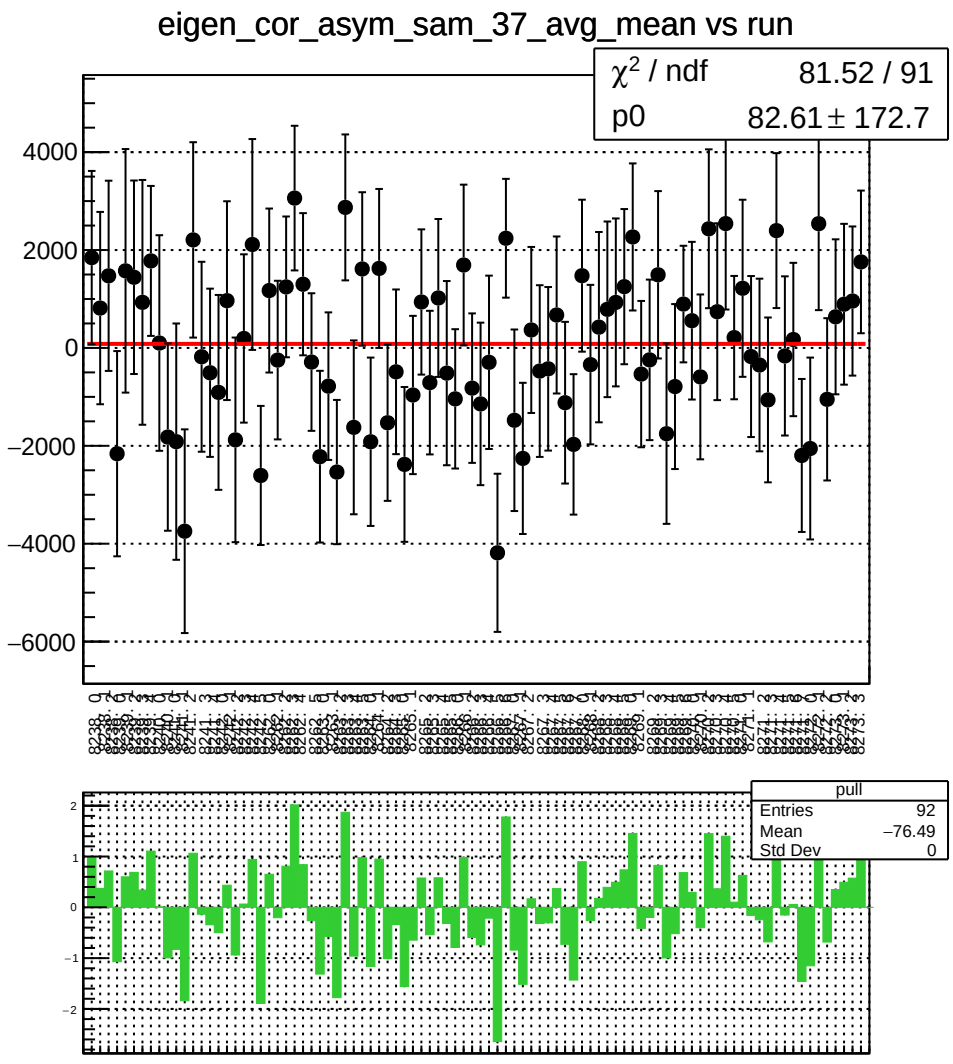

pull1D
Entries 92
Mean −0.01467
Std Dev 0.9412
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

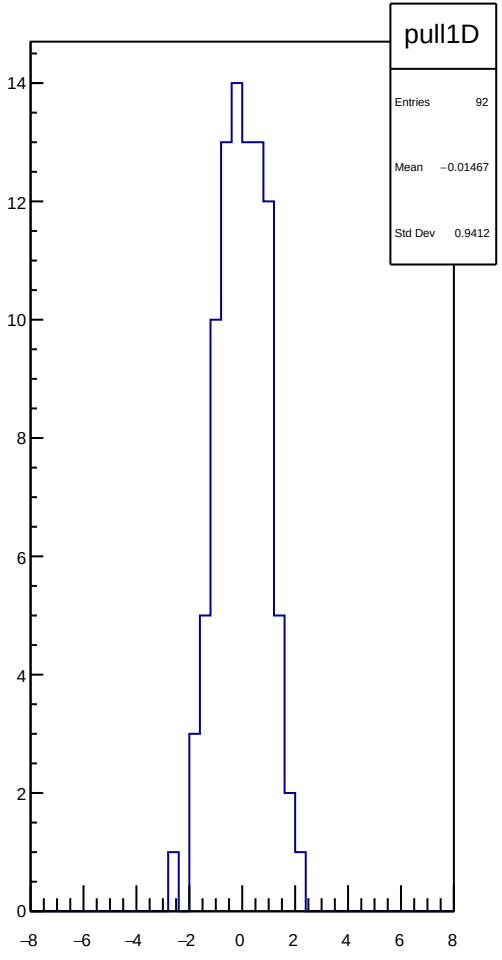

cor_asym_sam_37_avg_rms vs run
χ² / ndf 2.644e+04 / 91
p0 161.9 ± 0.1221
260
240
220
200
180
160
140

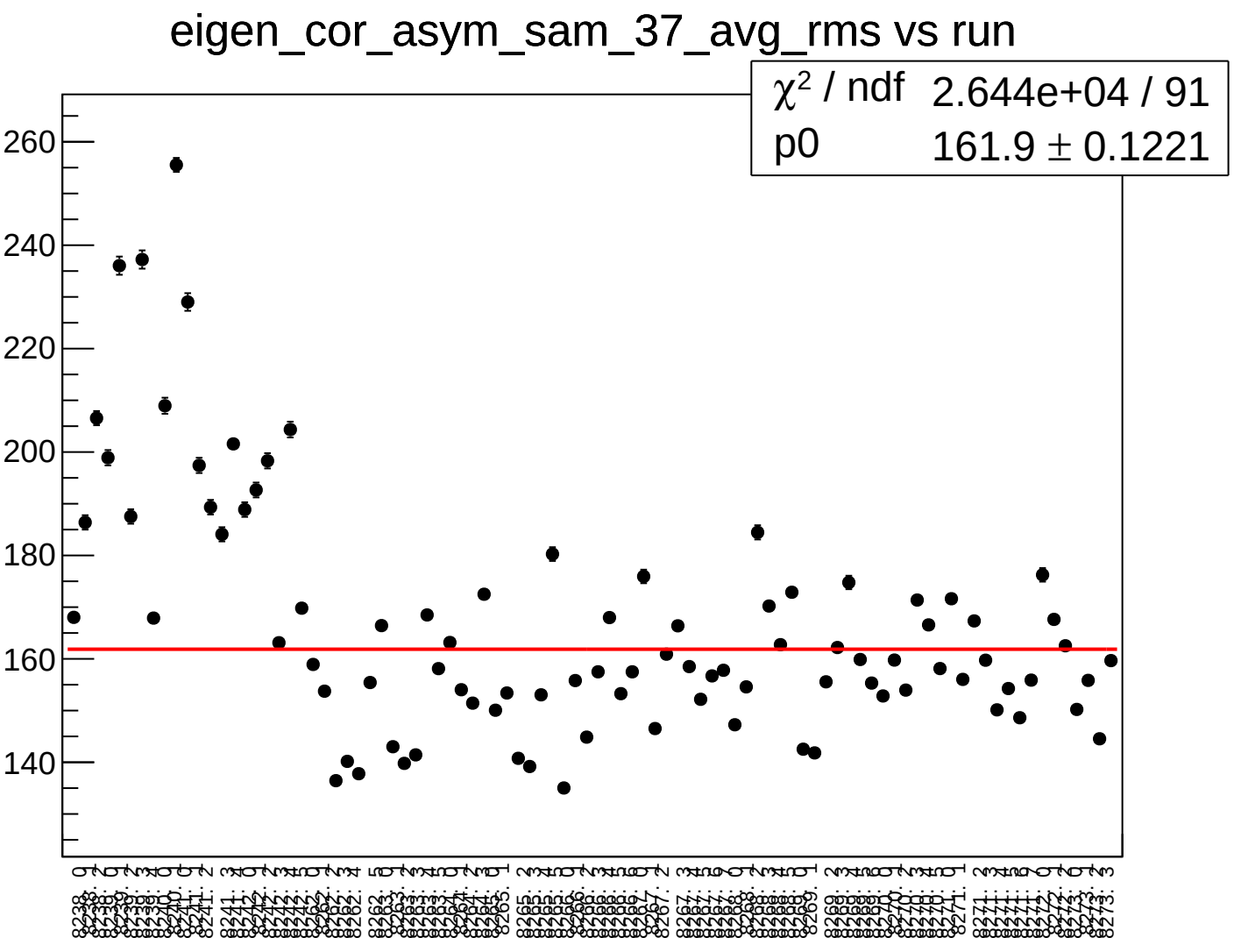

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 67.25 / 91
p0 −7010 ± 2144
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −1098
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

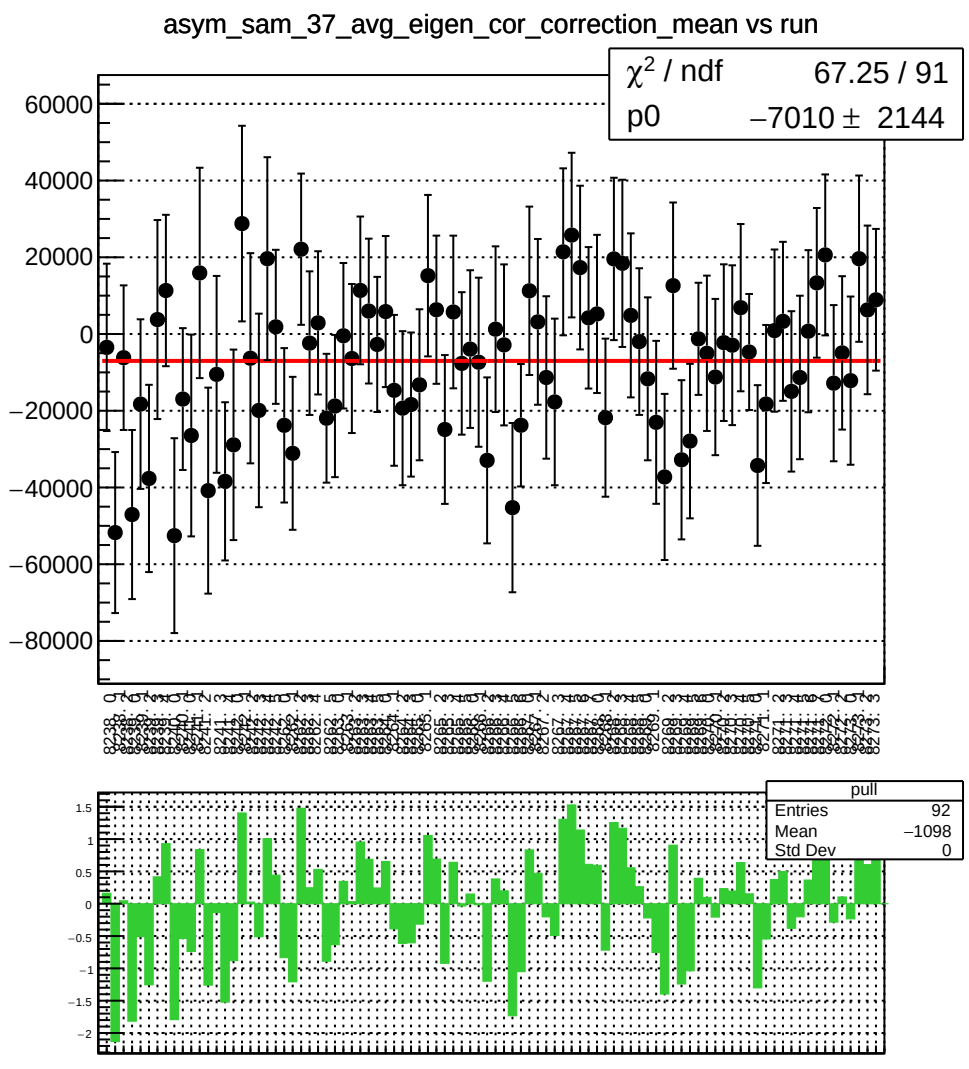

pull1D
Entries 92
Mean −0.004981
Std Dev 0.8549
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

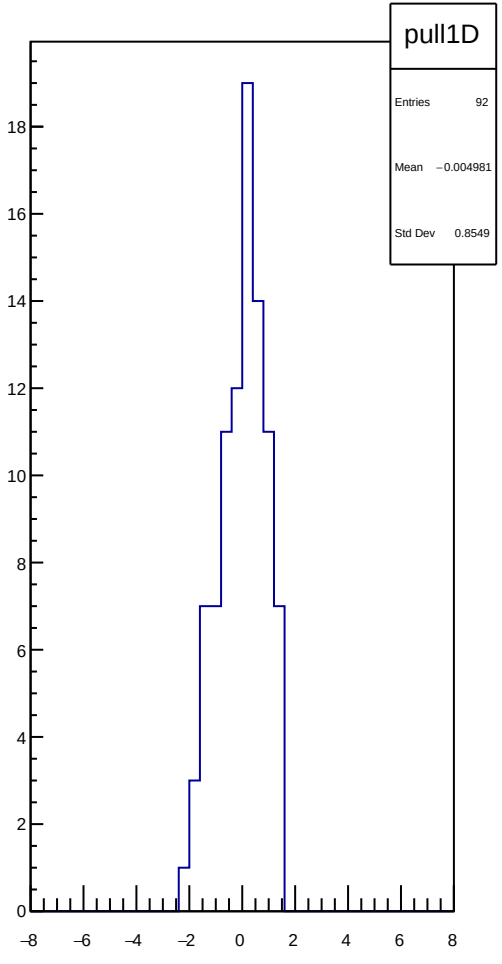

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 1.482e+04 / 91
p0 2015 ± 1.516
2600
2400
2200
2000
1800

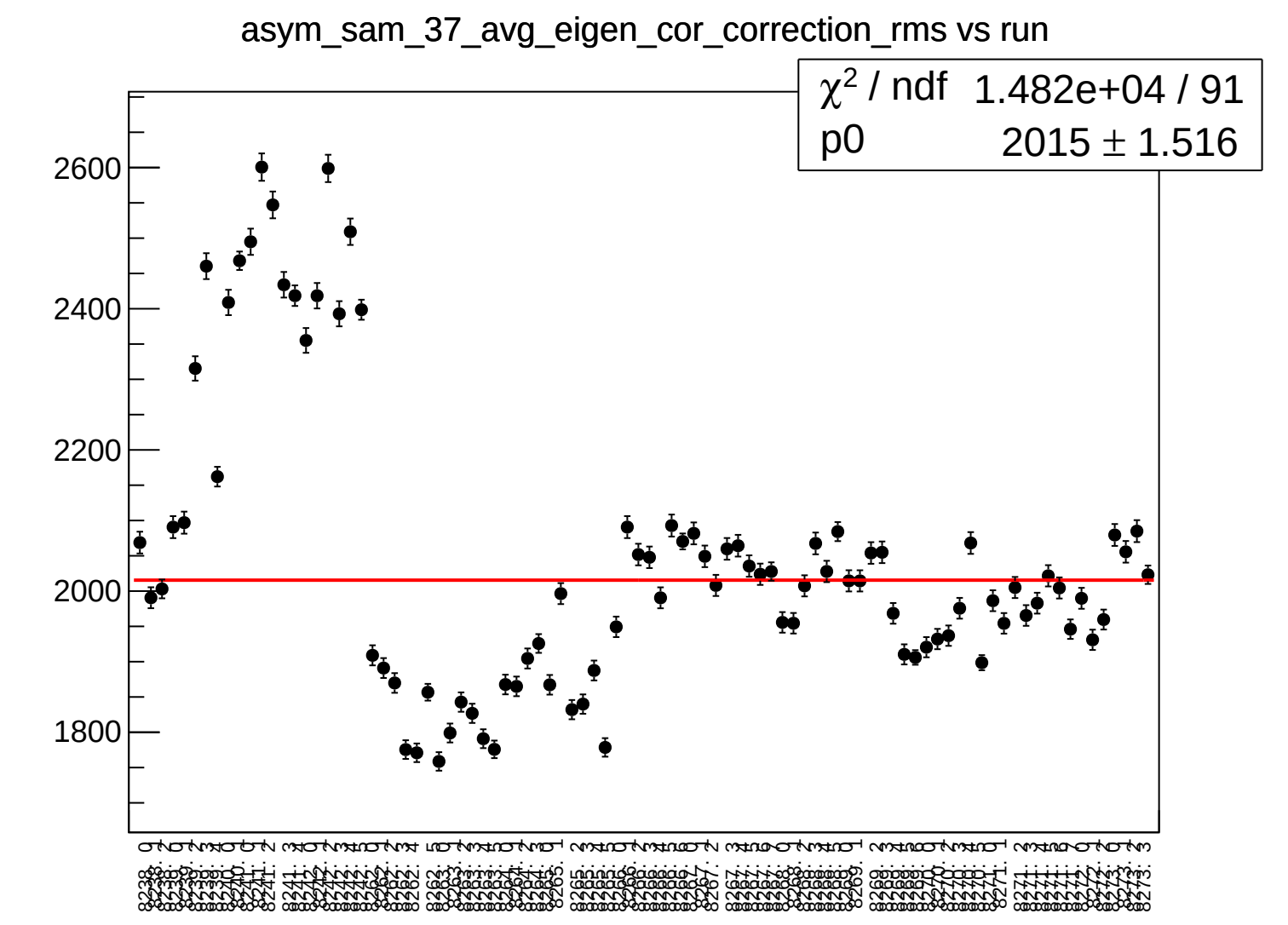

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 81.52 / 91
p0 82.61 ± 172.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −76.49
Std Dev 0
2
1
0
−1
−2

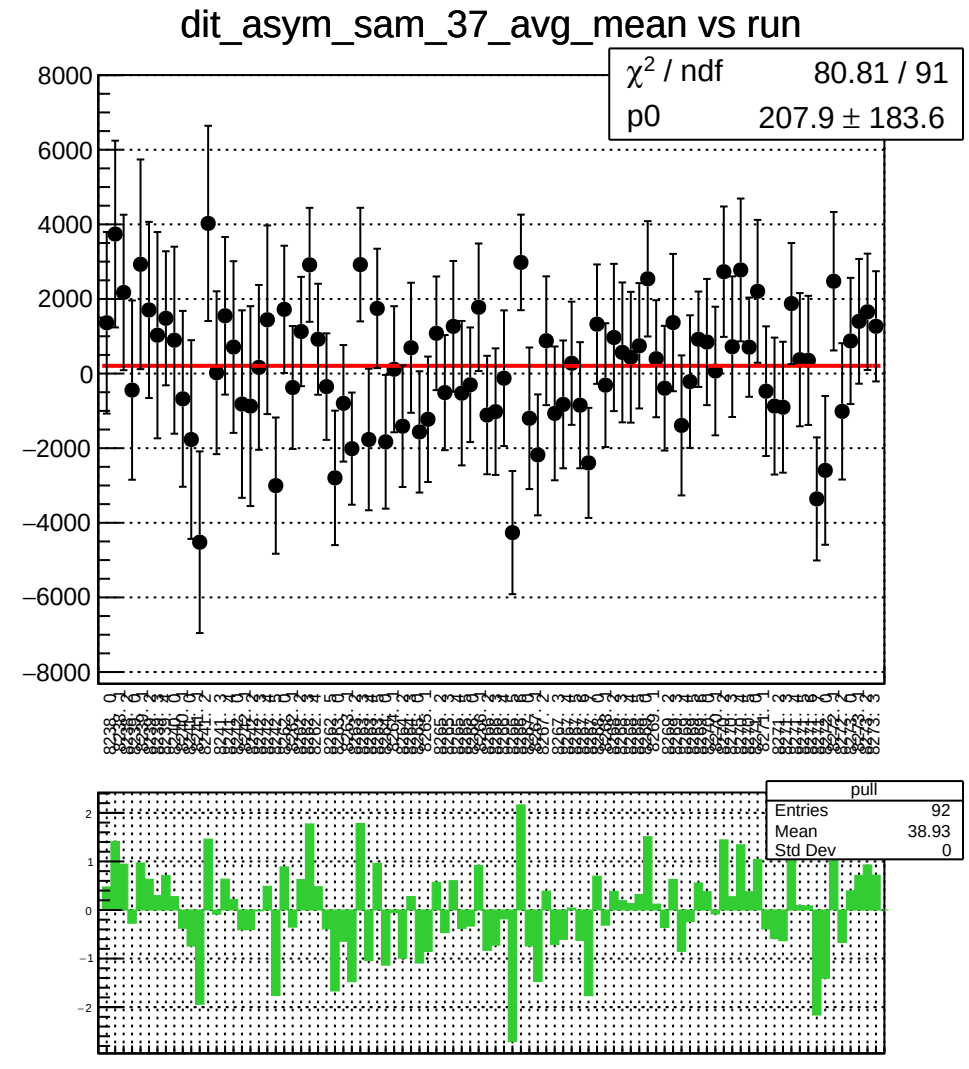

pull1D
Entries 92
Mean −0.01467
Std Dev 0.9412
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

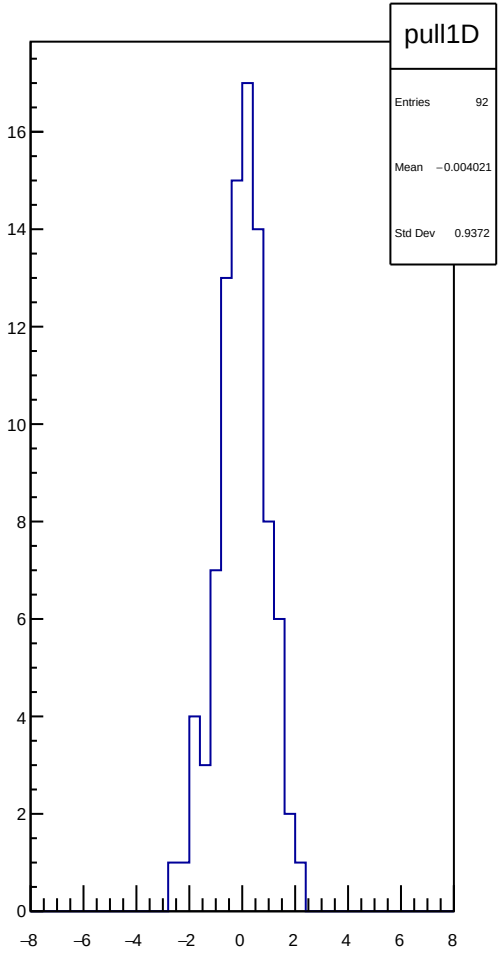

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 2.644e+04 / 91
p0 161.9 ± 0.1221
260
240
220
200
180
160
140

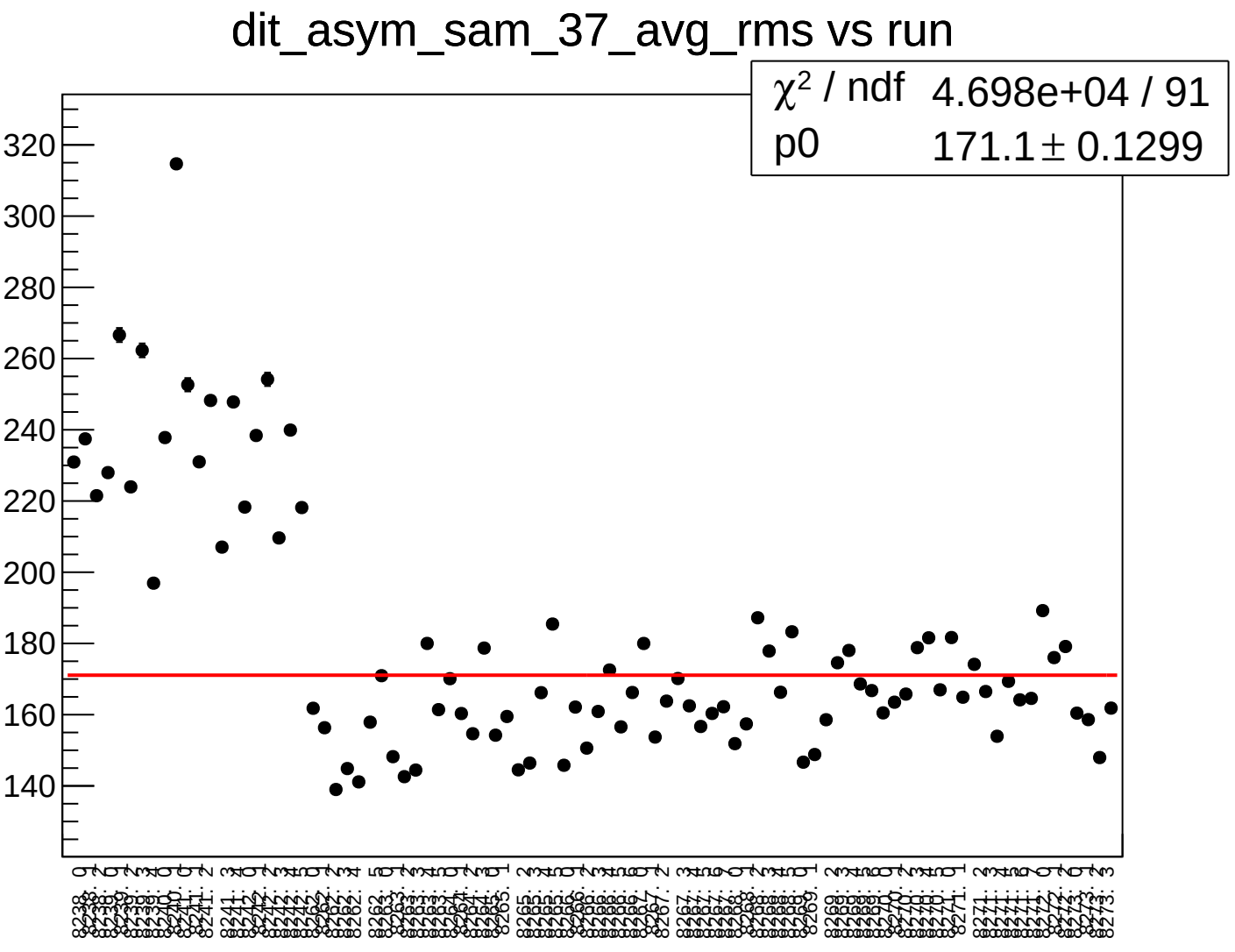

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 67.25 / 91
p0 −7010 ± 2144
pull
Entries 92
Mean −1098
Std Dev 0

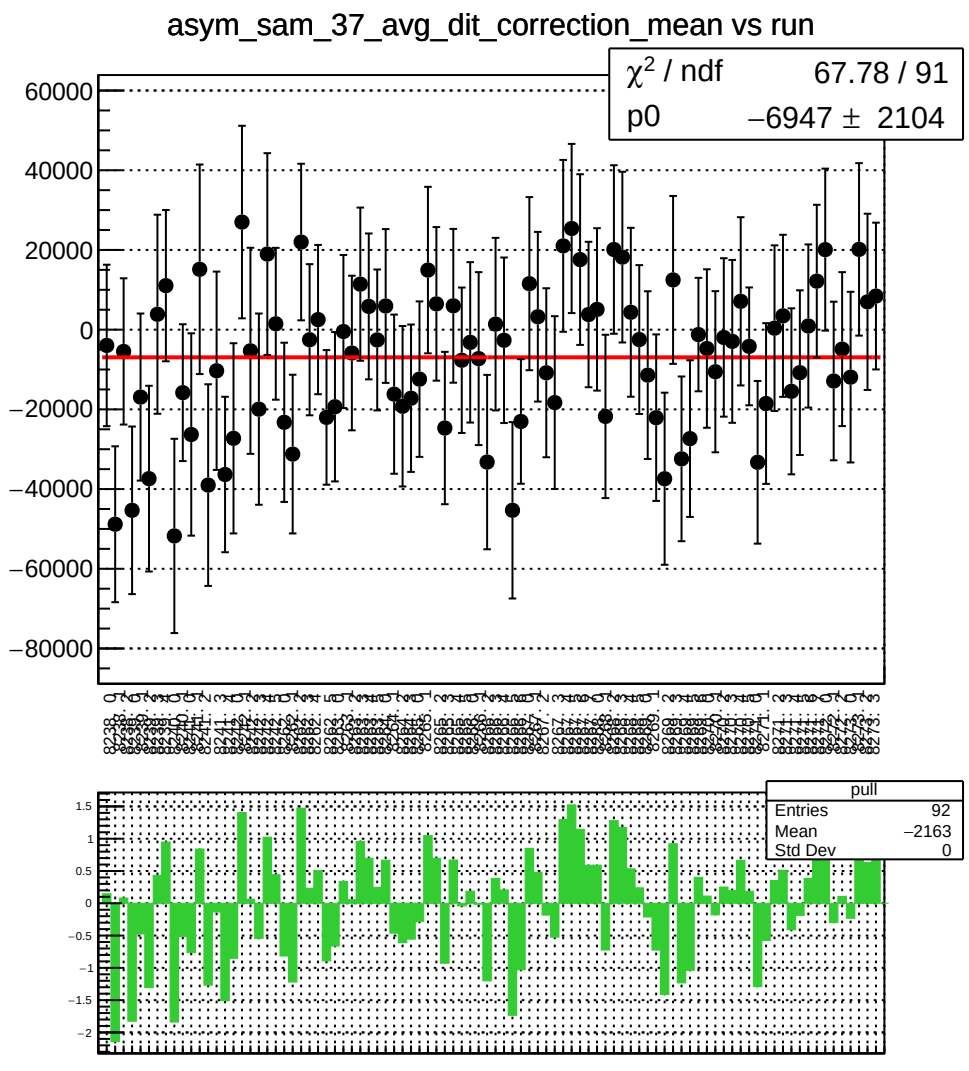

pull1D
Entries 92
Mean −0.004981
Std Dev 0.8549

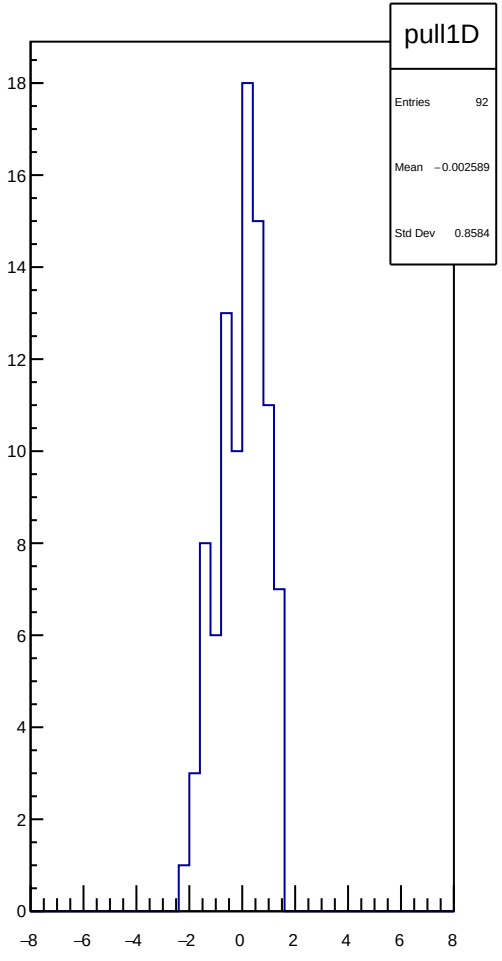

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.482e+04 / 91
p0 2015 ± 1.516
2600
2400
2200
2000
1800

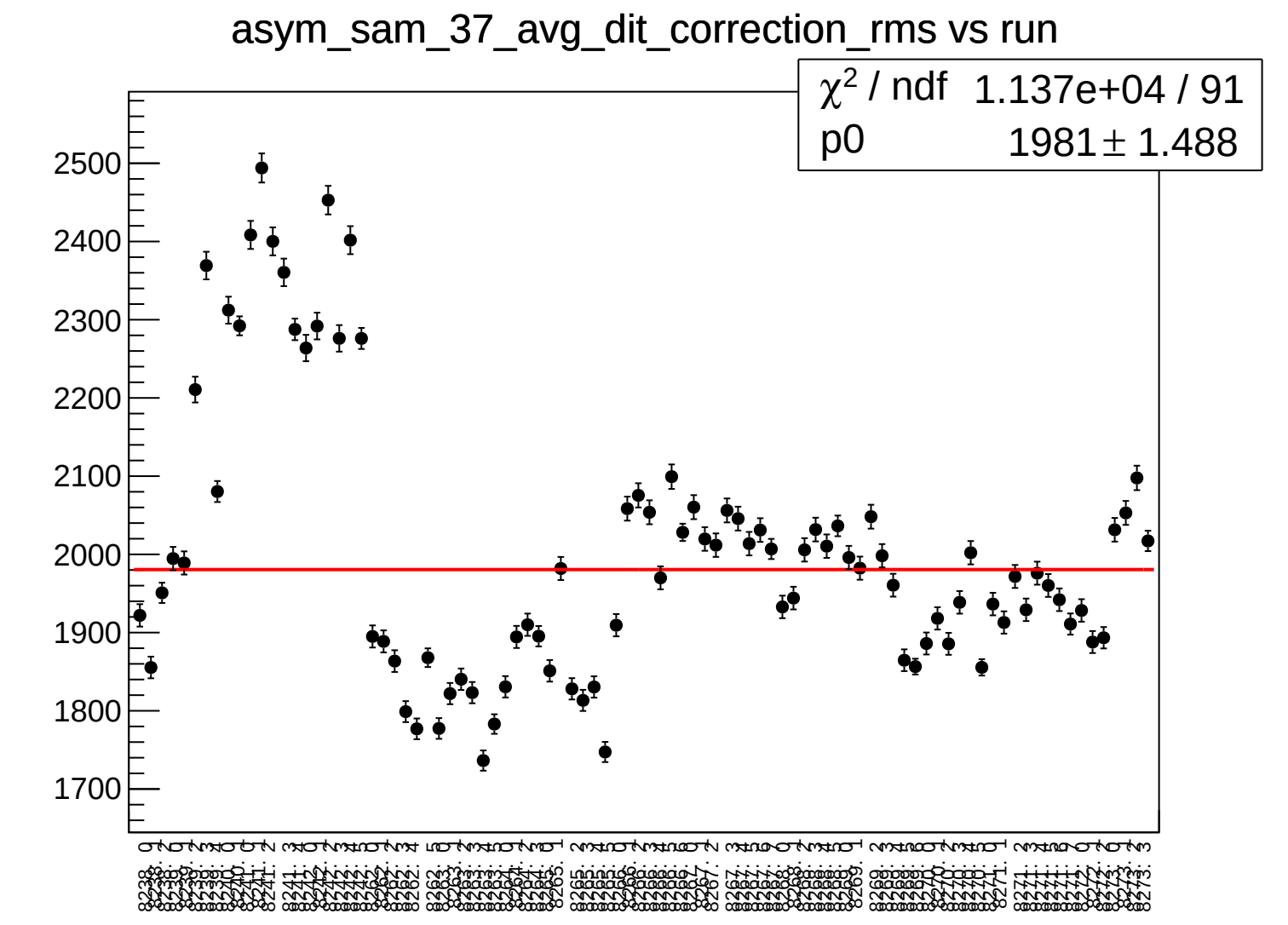

dit_asym_sam_37_avg_mean vs run
χ² / ndf 80.81 / 91
p0 207.9 ± 183.6
pull
Entries 92
Mean 38.93
Std Dev 0

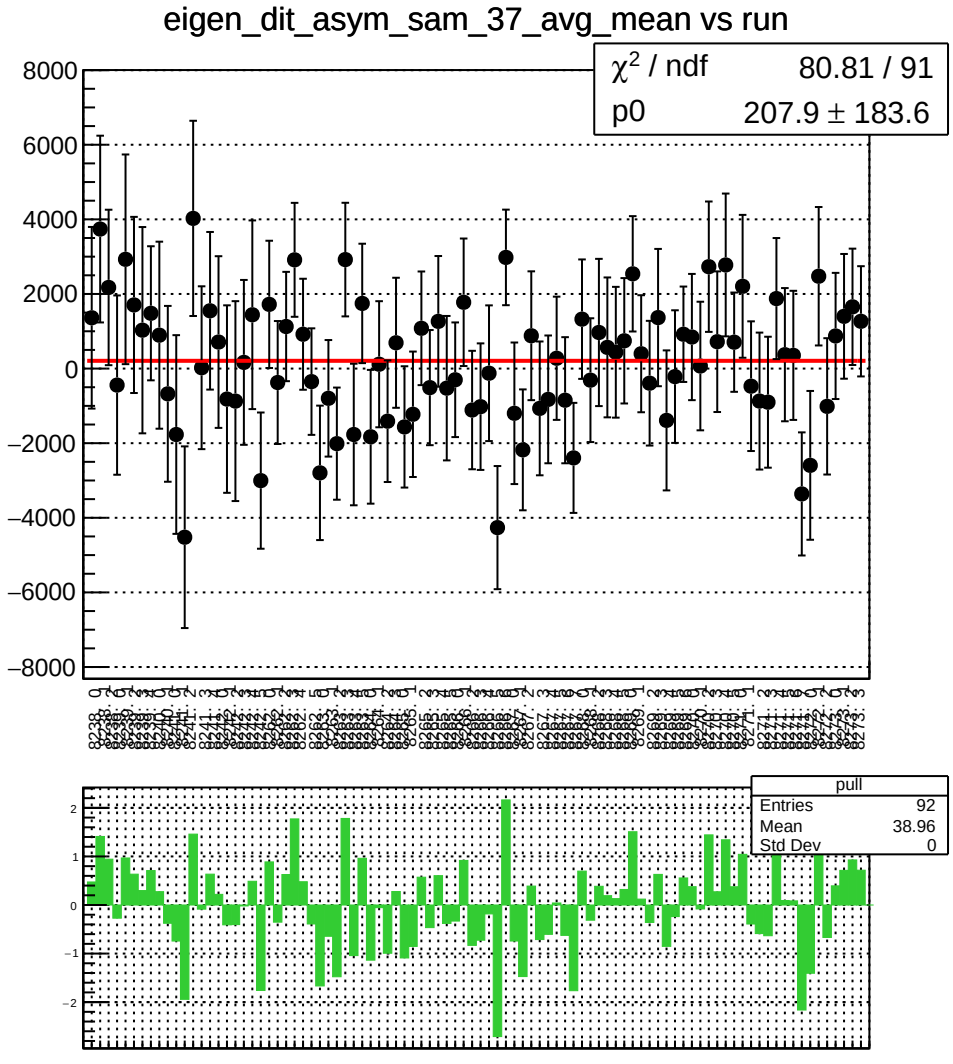

pull1D
Entries 92
Mean −0.004021
Std Dev 0.9372

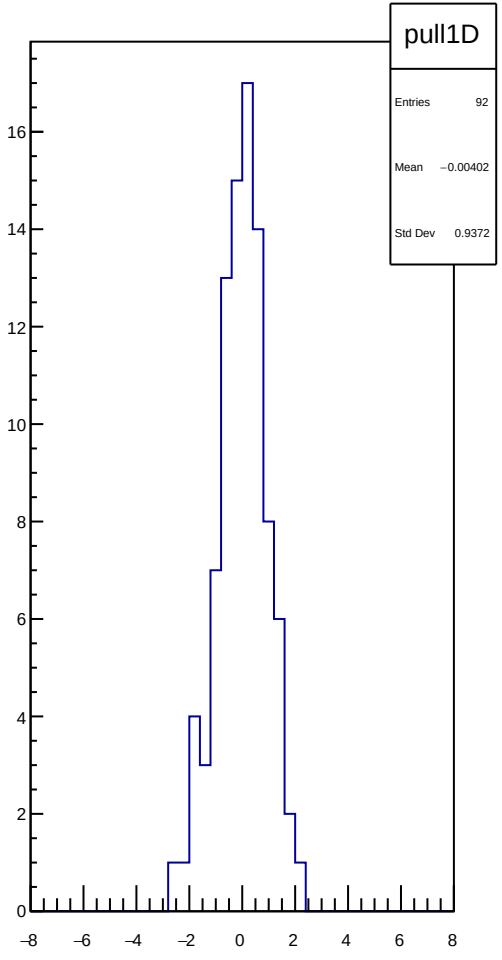

dit_asym_sam_37_avg_rms vs run
χ² / ndf 4.698e+04 / 91
p0 171.1 ± 0.1299
320
300
280
260
240
220
200
180
160
140

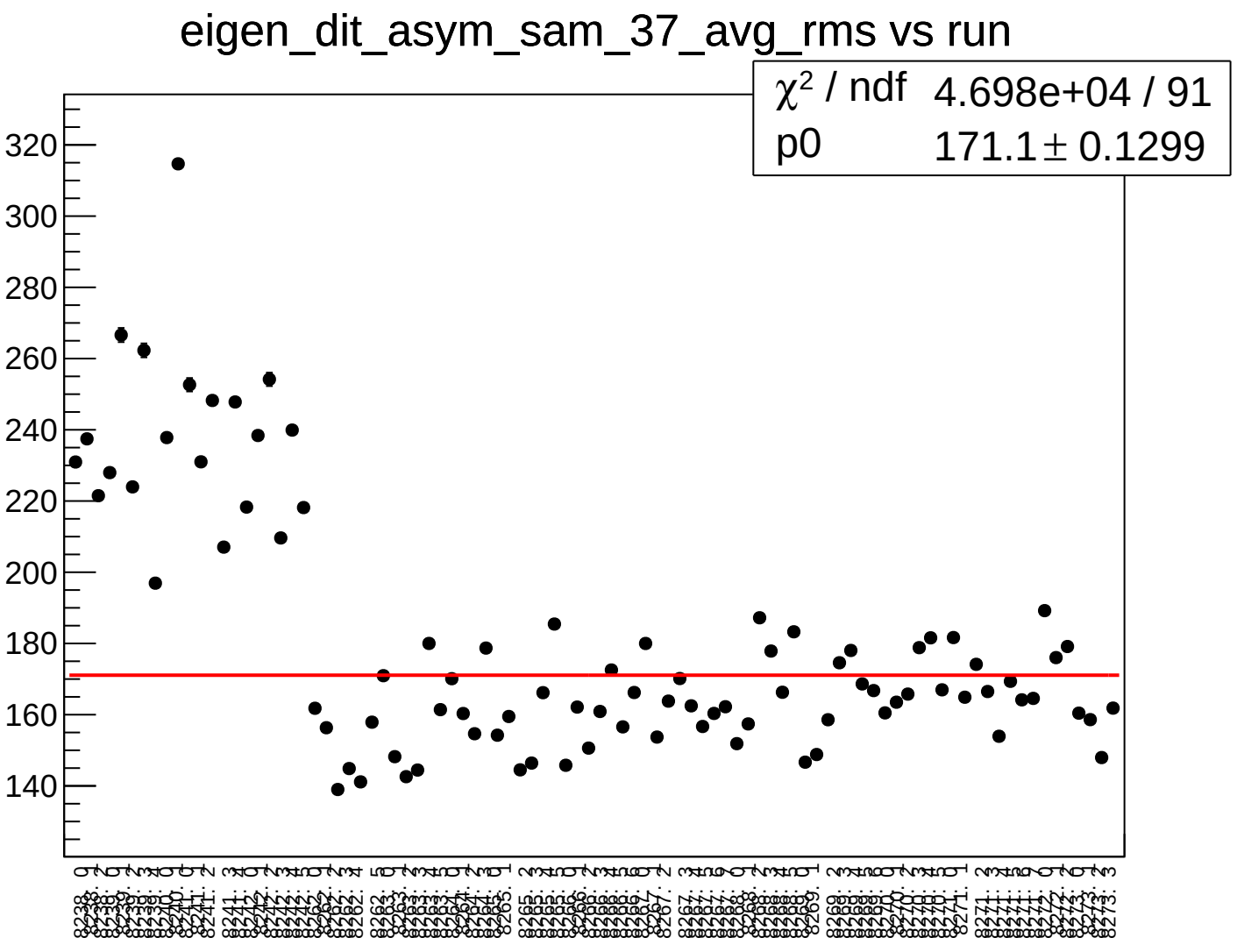

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 67.78 / 91
p0 −6947 ± 2104
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −2163
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

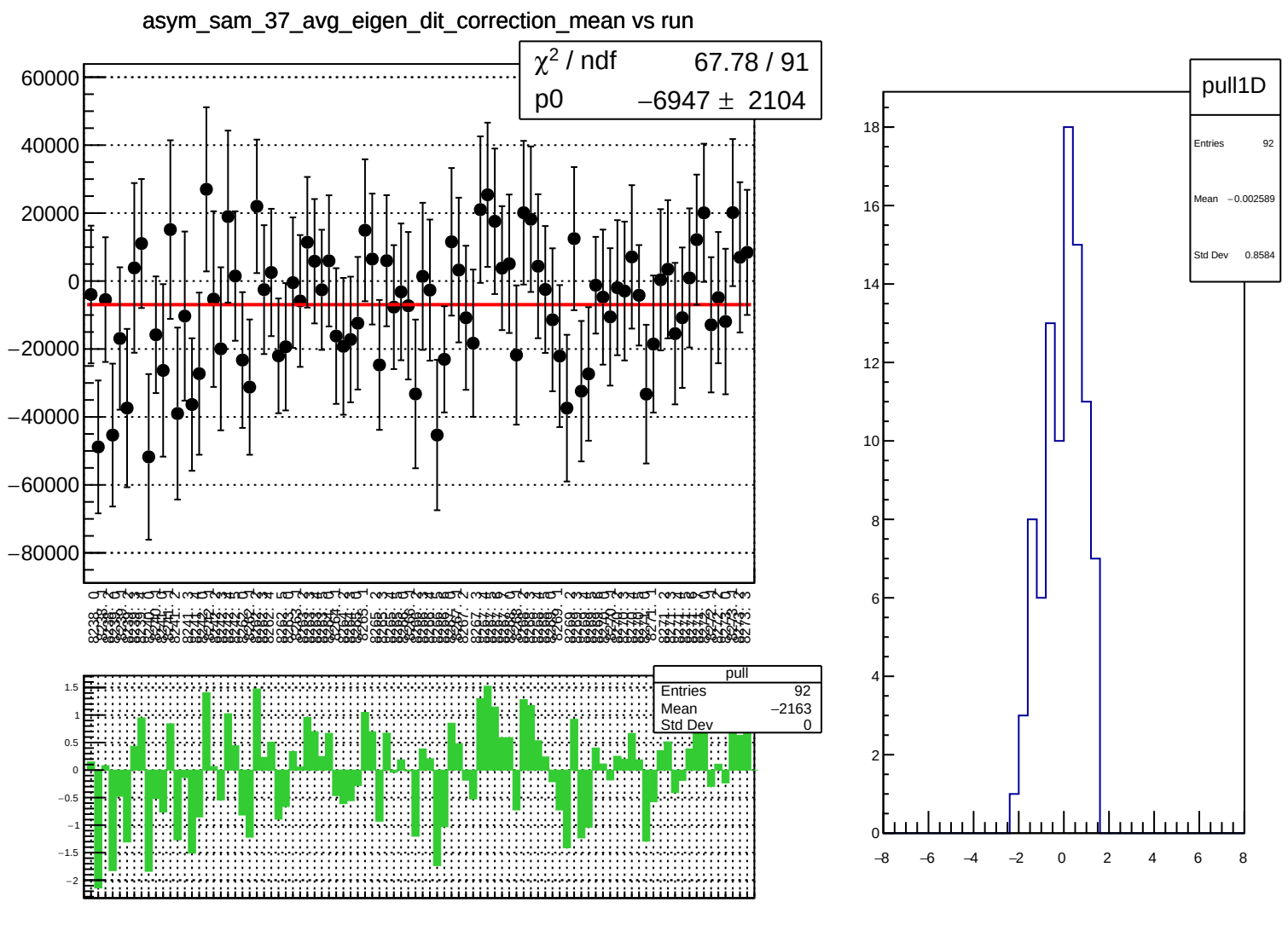

pull1D
Entries 92
Mean −0.002589
Std Dev 0.8584
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

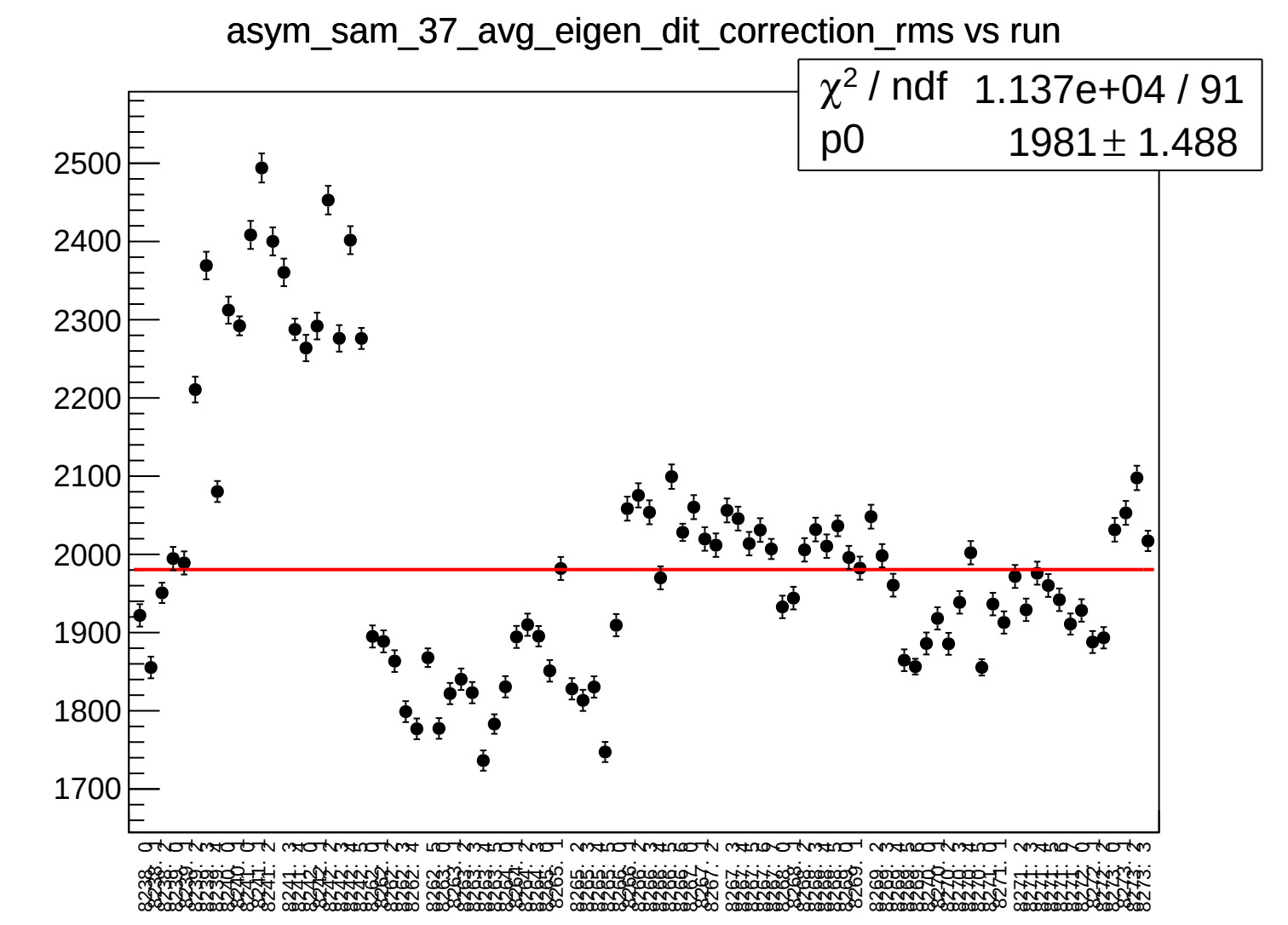

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 1.137e+04 / 91
p0 1981 ± 1.488
2500
2400
2300
2200
2100
2000
1900
1800
1700

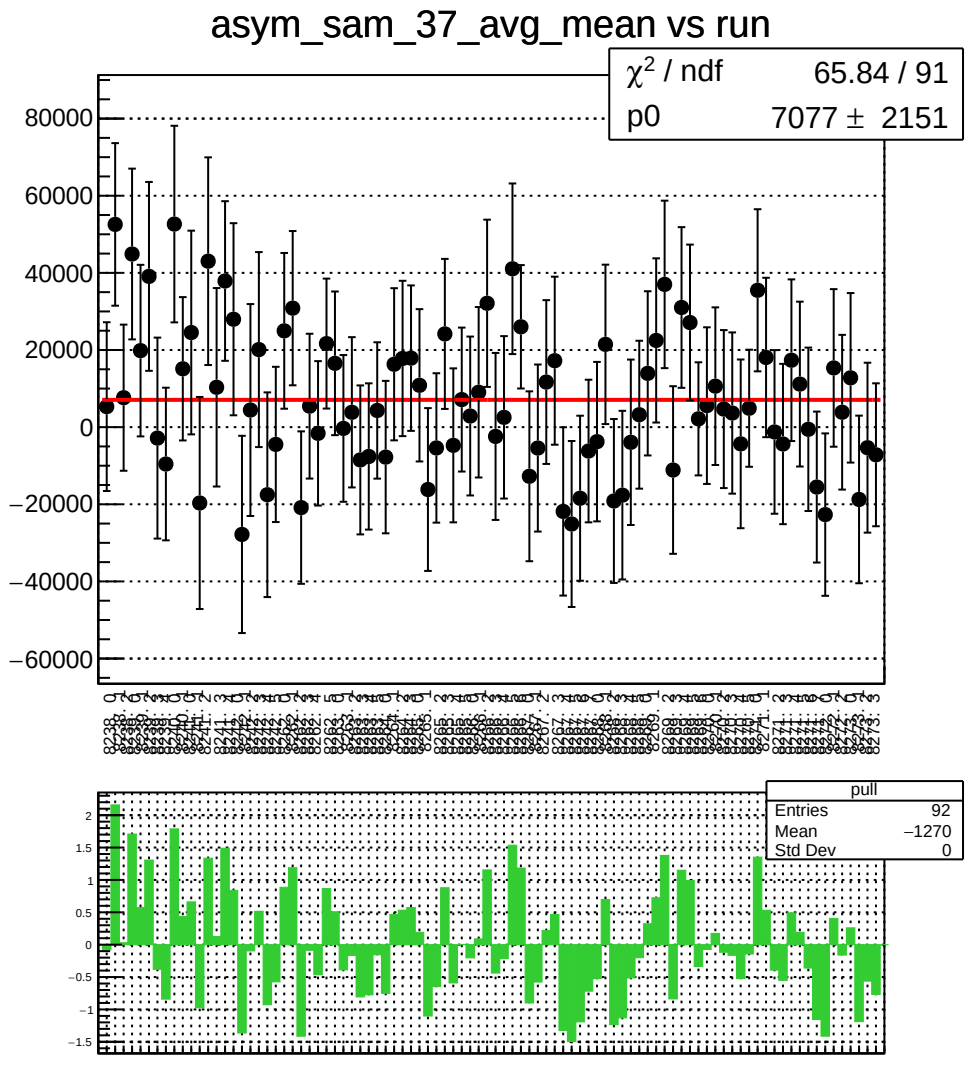

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 80.81 / 91
p0 207.9 ± 183.6
pull
Entries 92
Mean 38.96
Std Dev 0

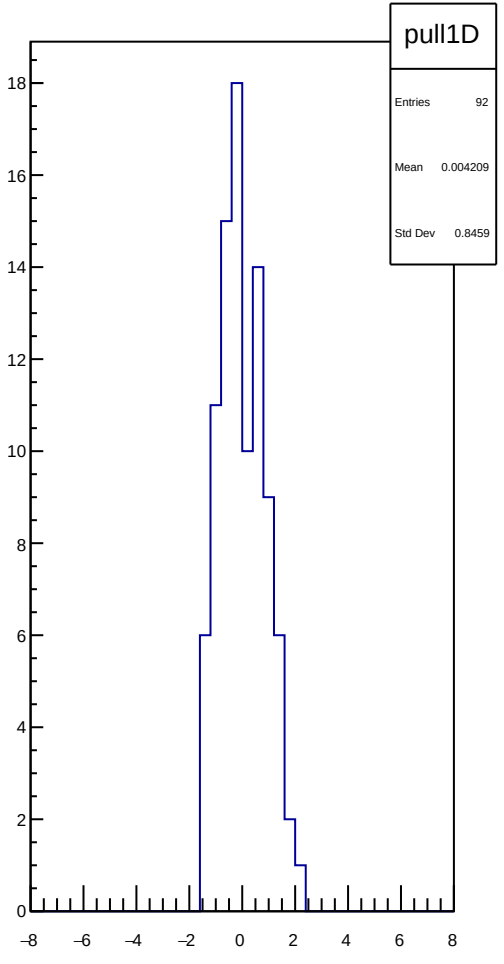

pull1D
Entries 92
Mean −0.00402
Std Dev 0.9372

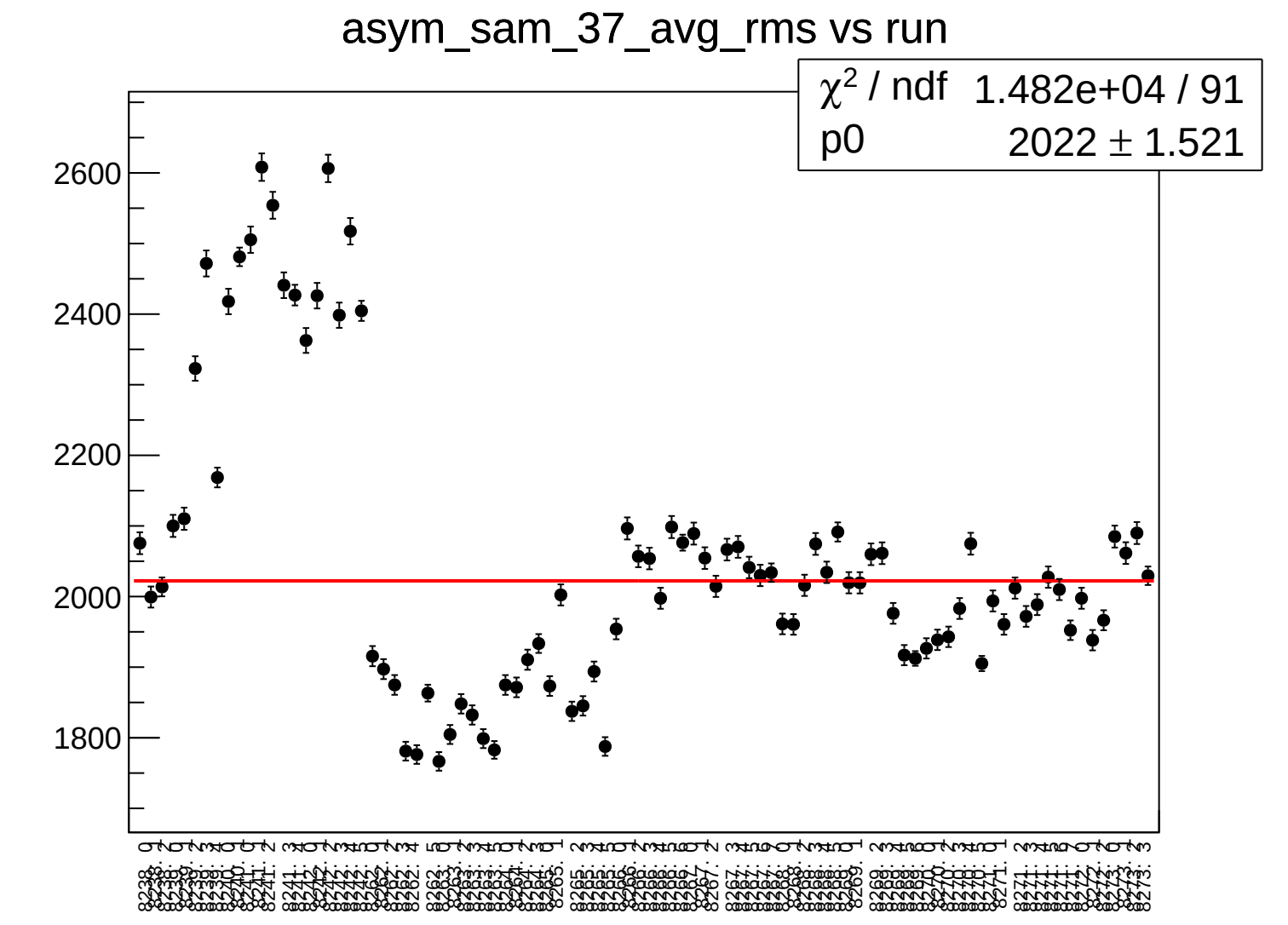

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 4.698e+04 / 91
p0 171.1 ± 0.1299
320
300
280
260
240
220
200
180
160
140

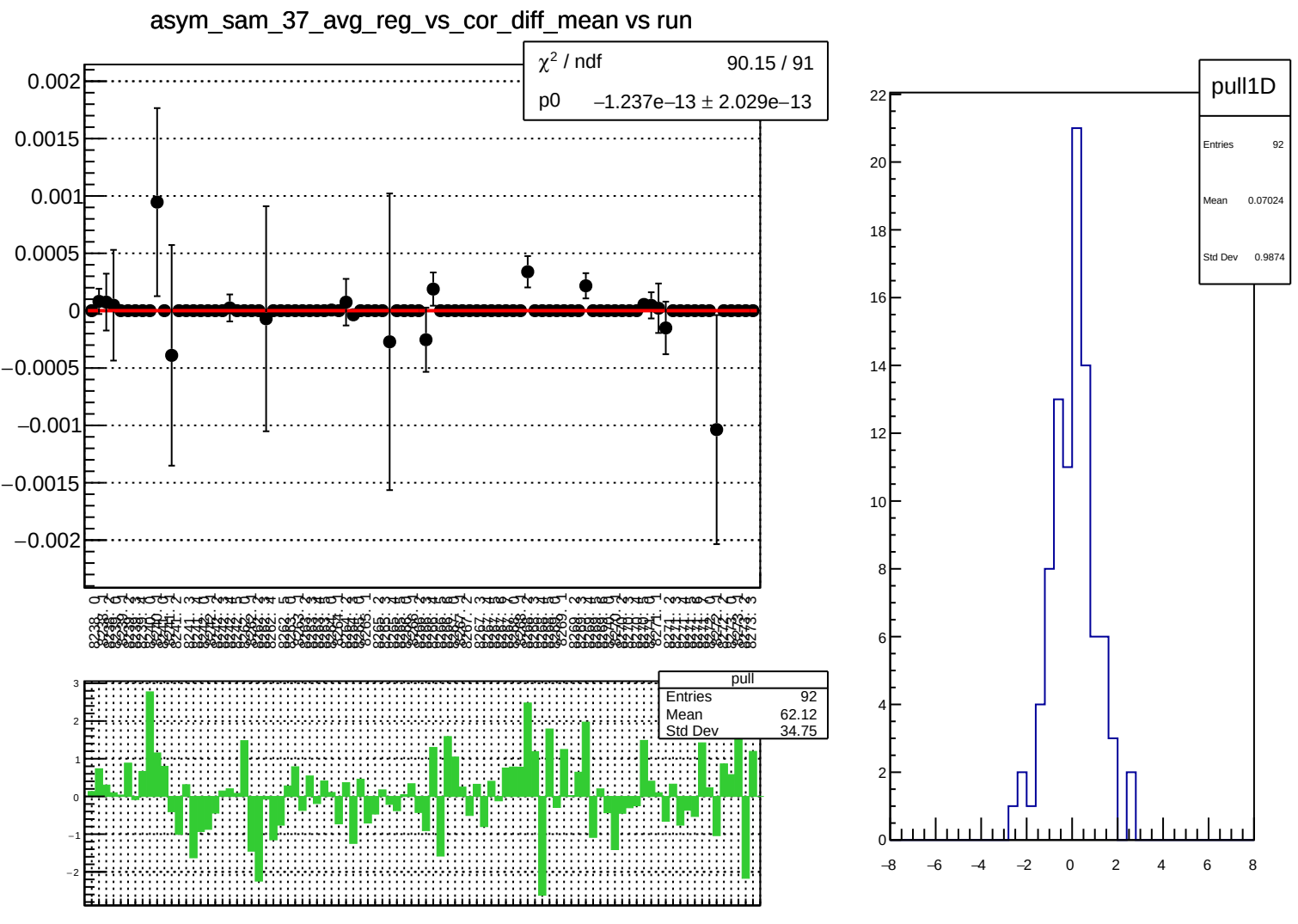

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 67.78 / 91
p0 −6947 ± 2104
pull
Entries 92
Mean −2163
Std Dev 0
pull1D
Entries 92
Mean −0.002589
Std Dev 0.8584

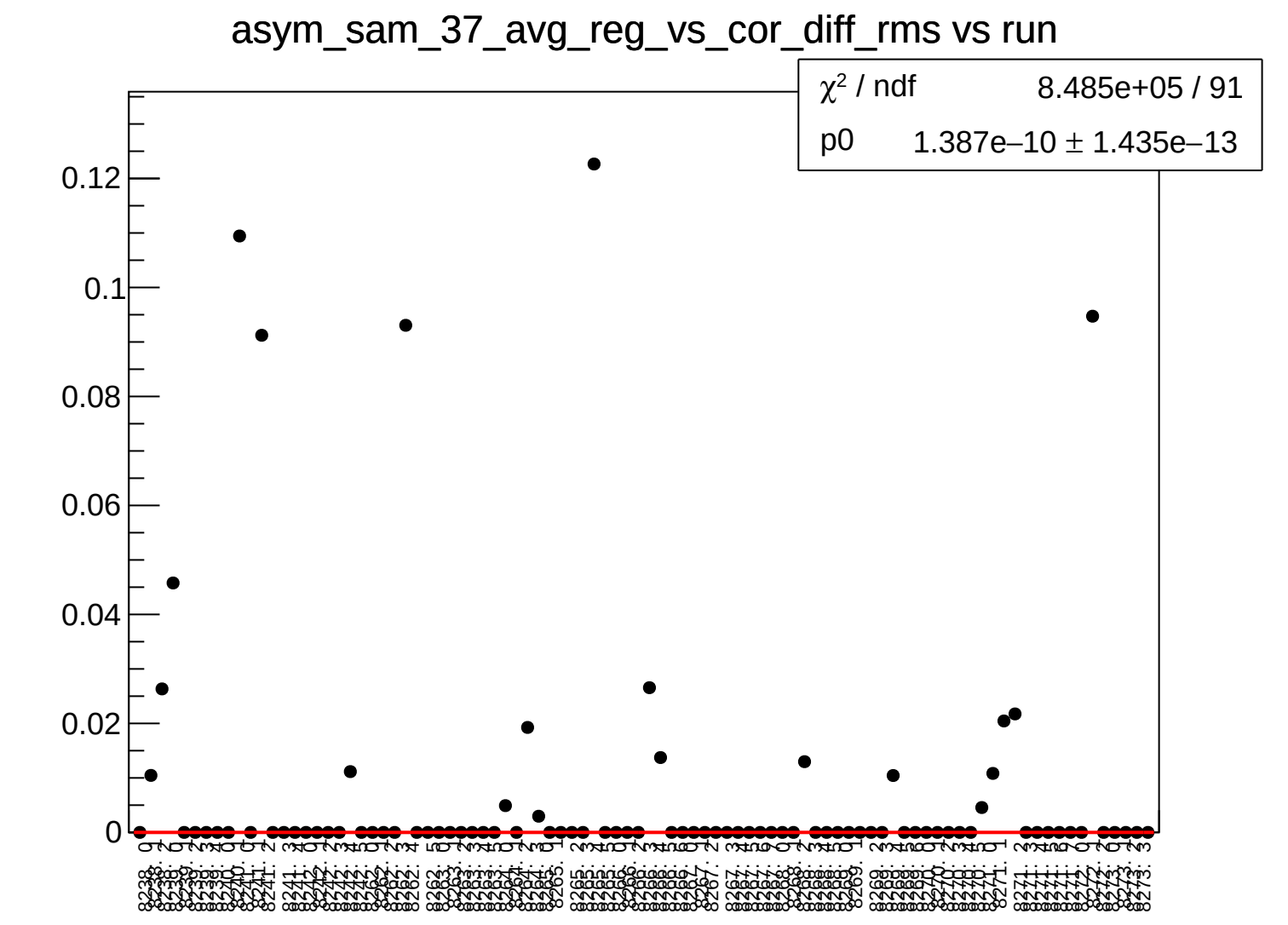

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.137e+04 / 91
p0 1981 ± 1.488
2500
2400
2300
2200
2100
2000
1900
1800
1700

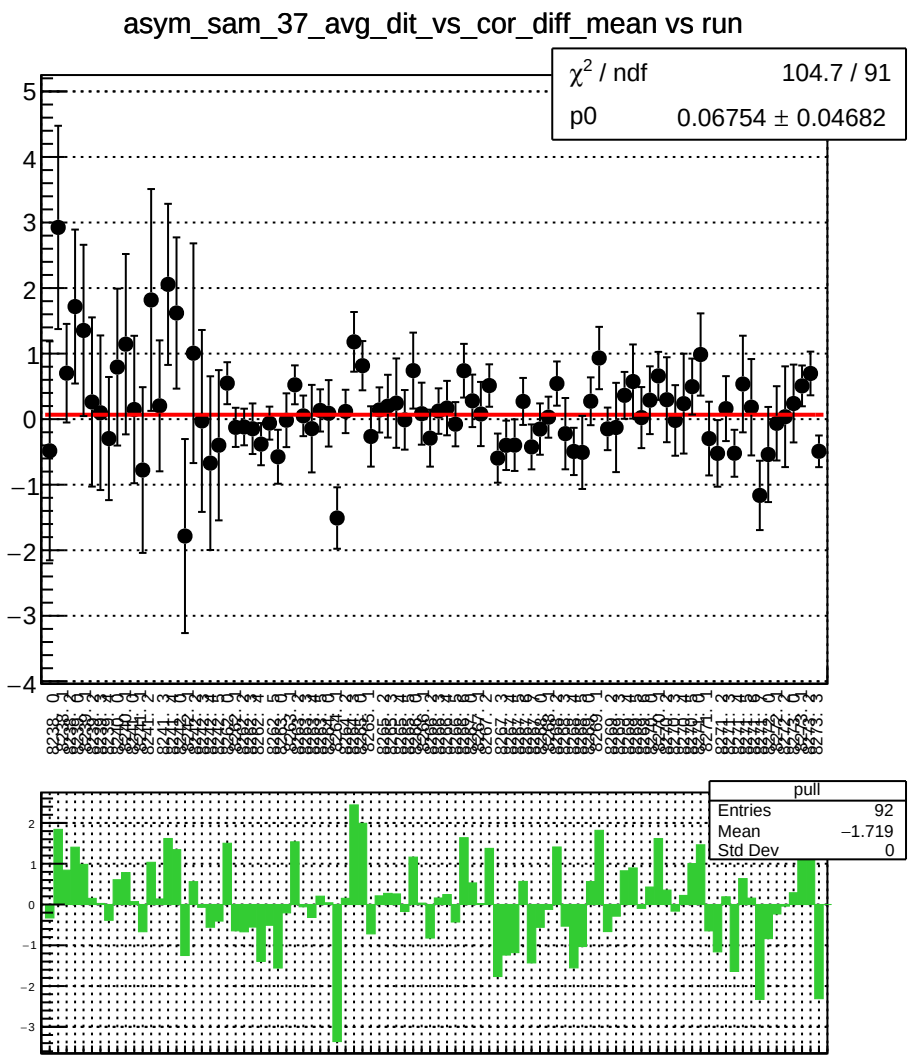

asym_sam_37_avg_mean vs run
χ² / ndf 65.84 / 91
p0 7077 ± 2151
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1270
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

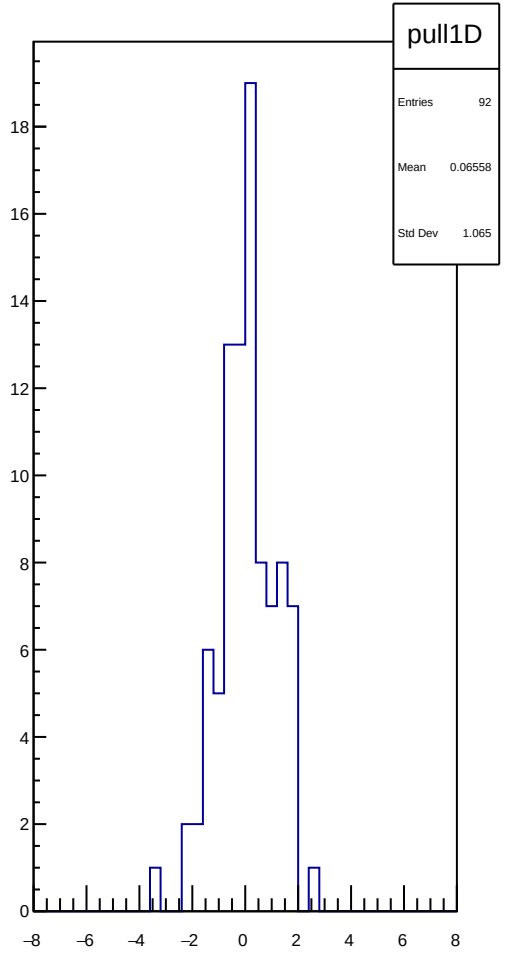

pull1D
Entries 92
Mean 0.004209
Std Dev 0.8459
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

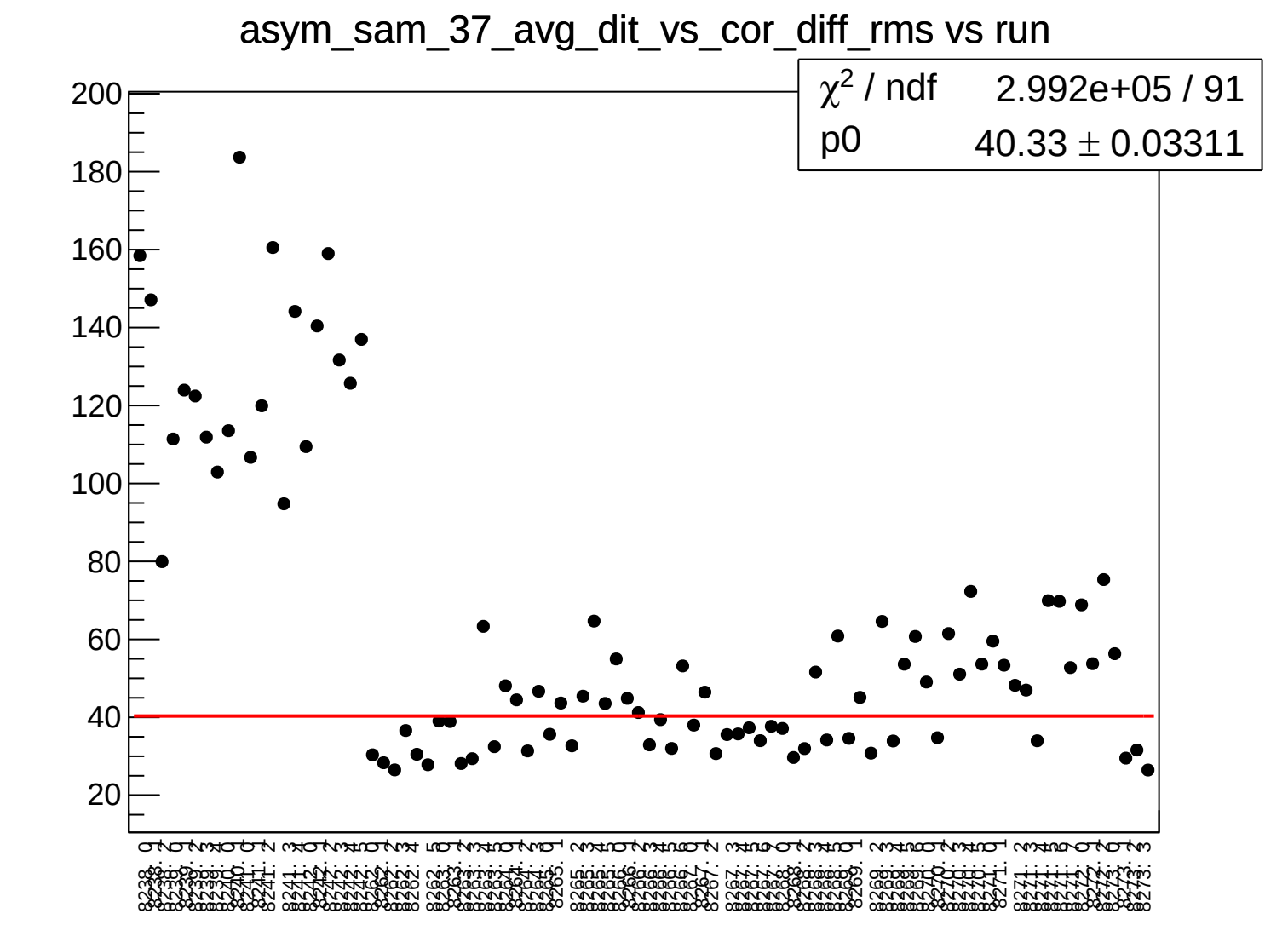

asym_sam_37_avg_rms vs run
$\chi^2$ / ndf 1.482e+04 / 91
p0 2022 ± 1.521
2600
2400
2200
2000
1800

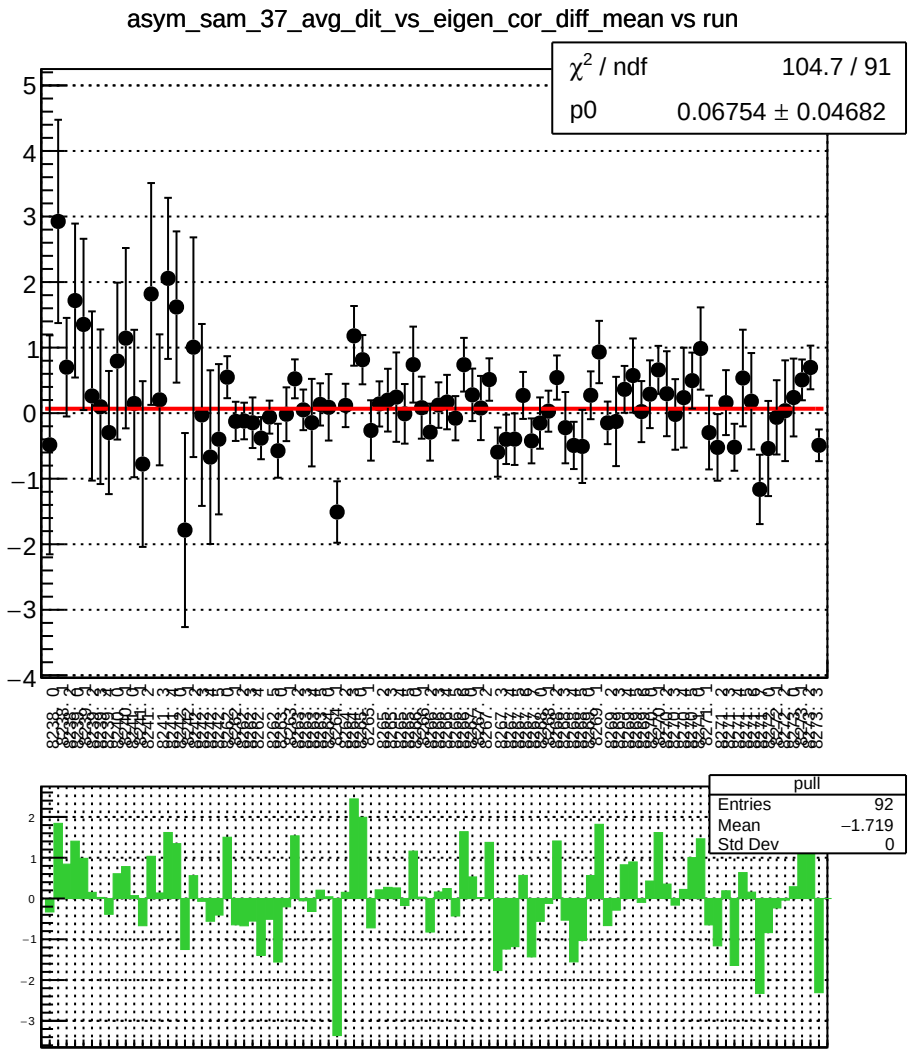

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.15 / 91
p0 −1.237e−13 ± 2.029e−13
pull
Entries 92
Mean 62.12
Std Dev 34.75
pull1D
Entries 92
Mean 0.07024
Std Dev 0.9874

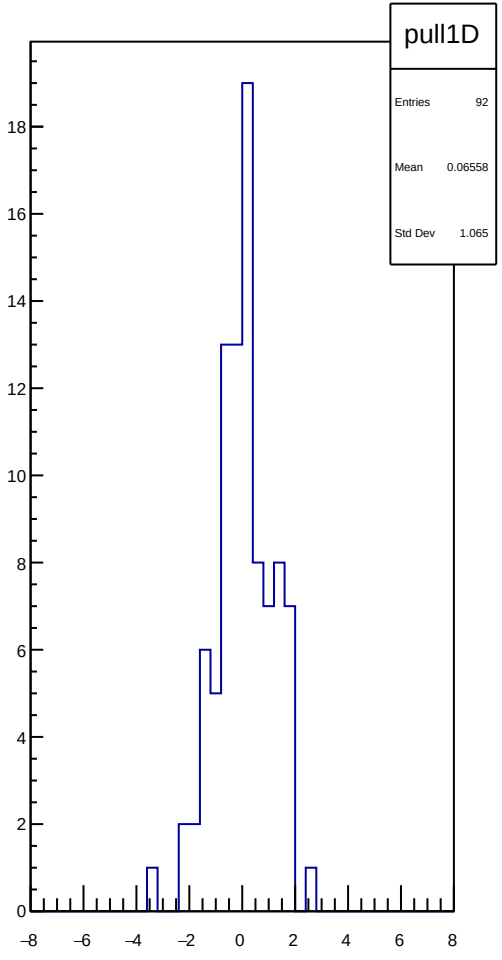

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.485e+05 / 91
p0 1.387e−10 ± 1.435e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

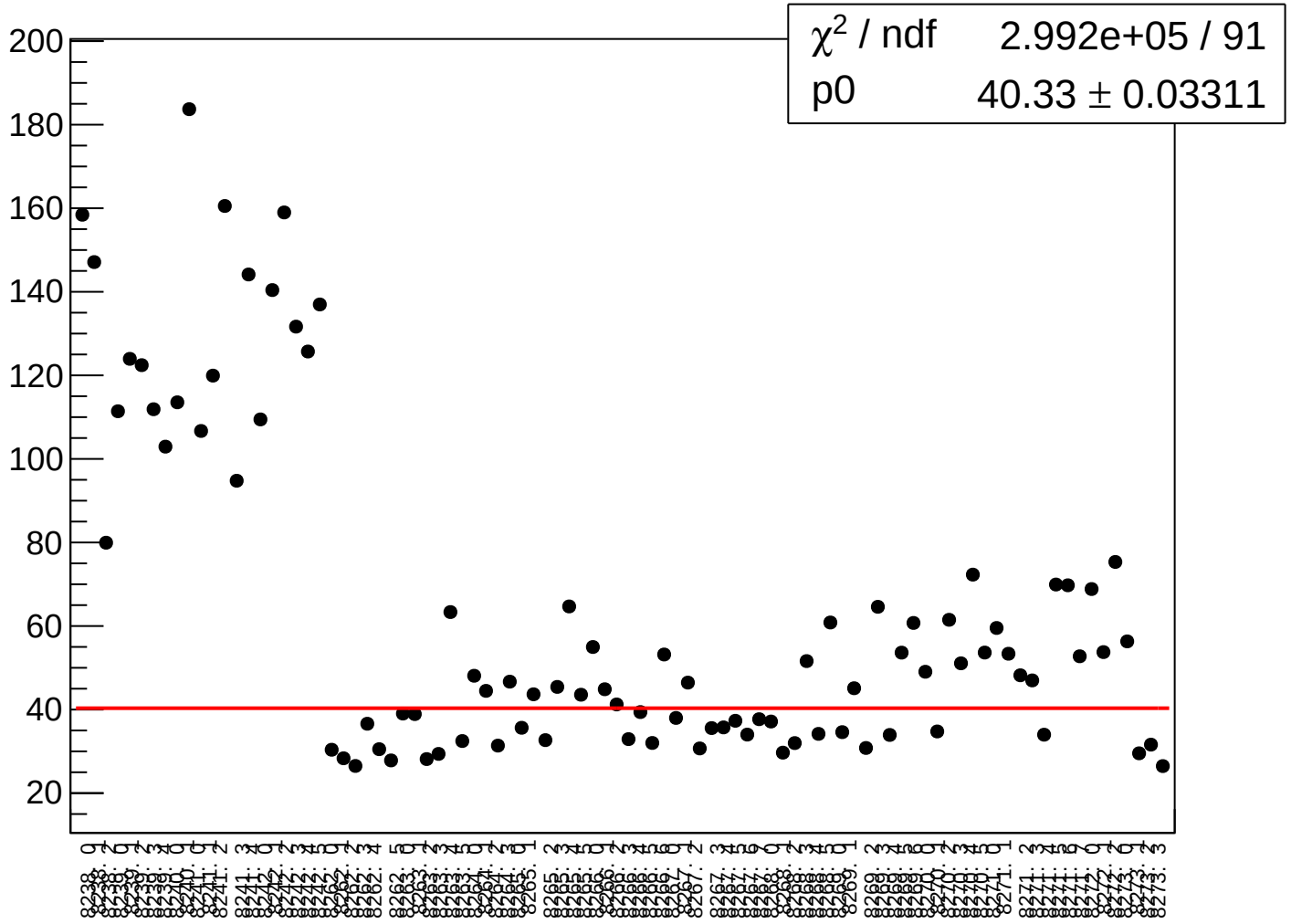

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 91
p0 0.06754 ± 0.04682
pull
Entries 92
Mean −1.719
Std Dev 0

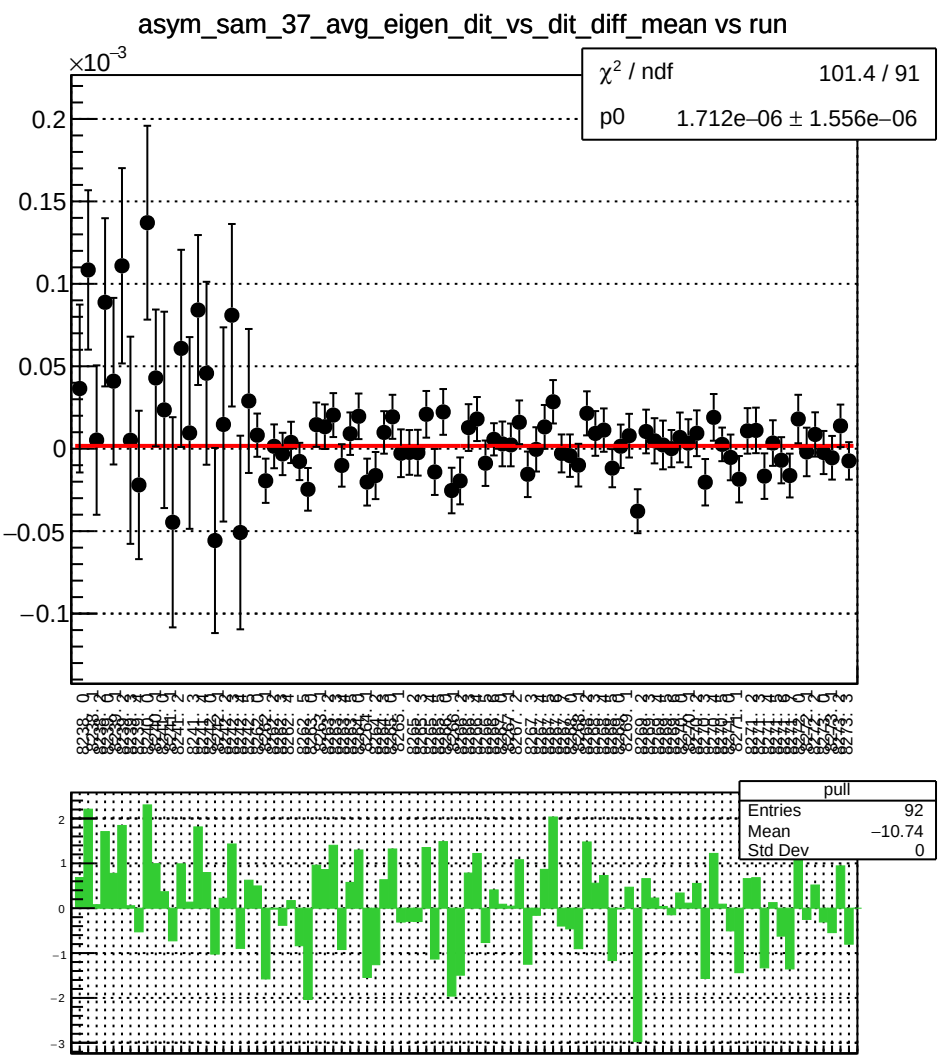

pull1D
Entries 92
Mean 0.06558
Std Dev 1.065

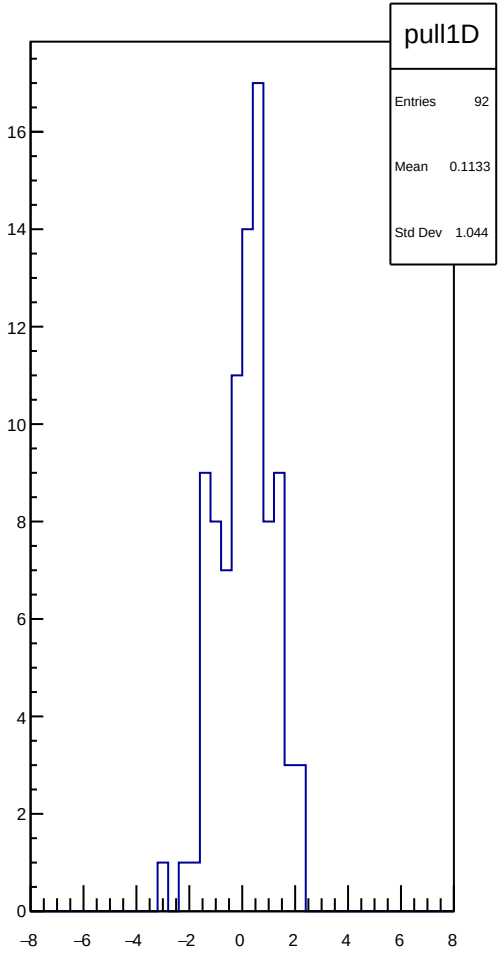

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.992e+05 / 91
p0 40.33 ± 0.03311
200
180
160
140
120
100
80
60
40
20

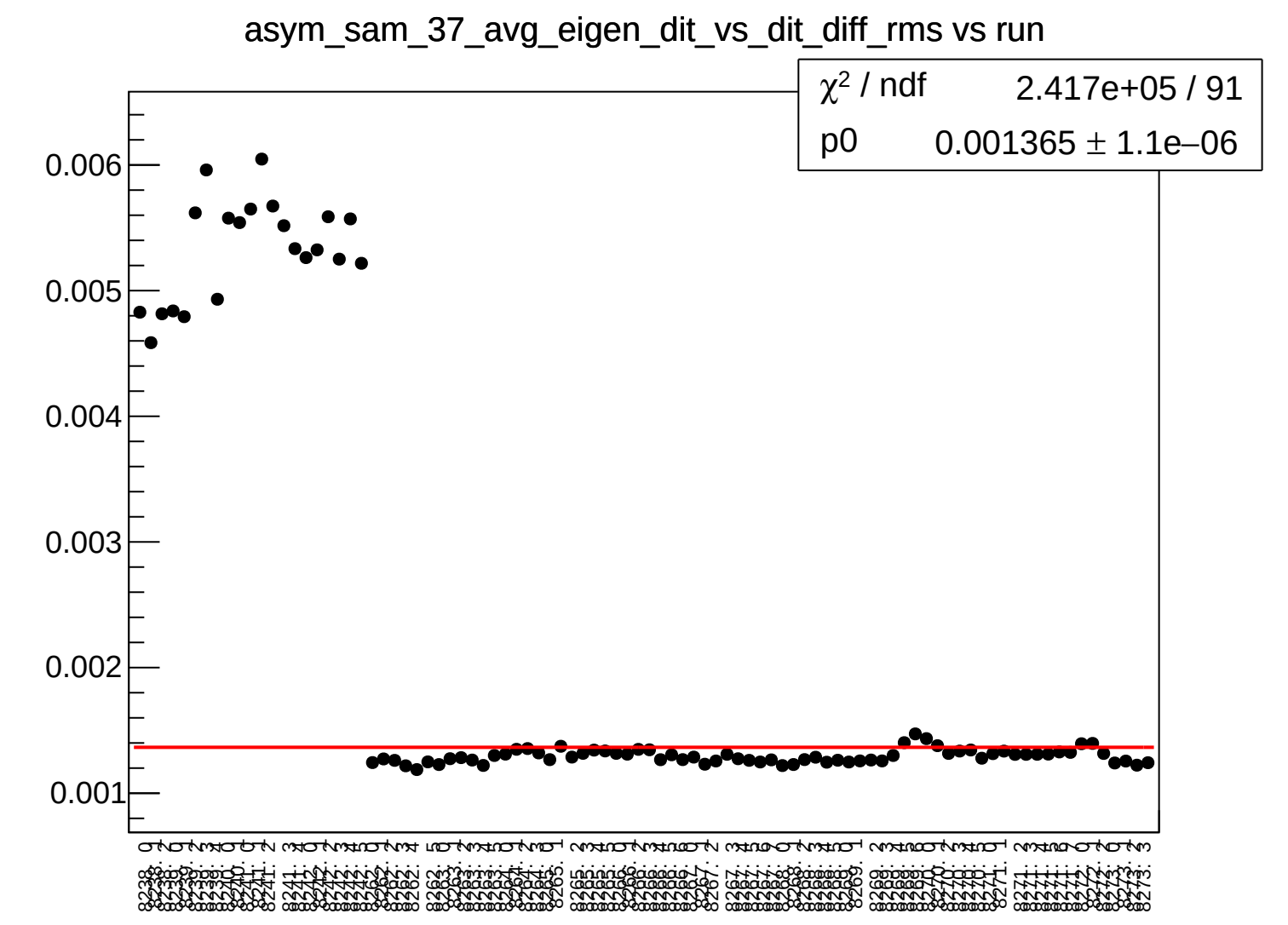

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.7 / 91
p0 0.06754 ± 0.04682
pull
Entries 92
Mean −1.719
Std Dev 0

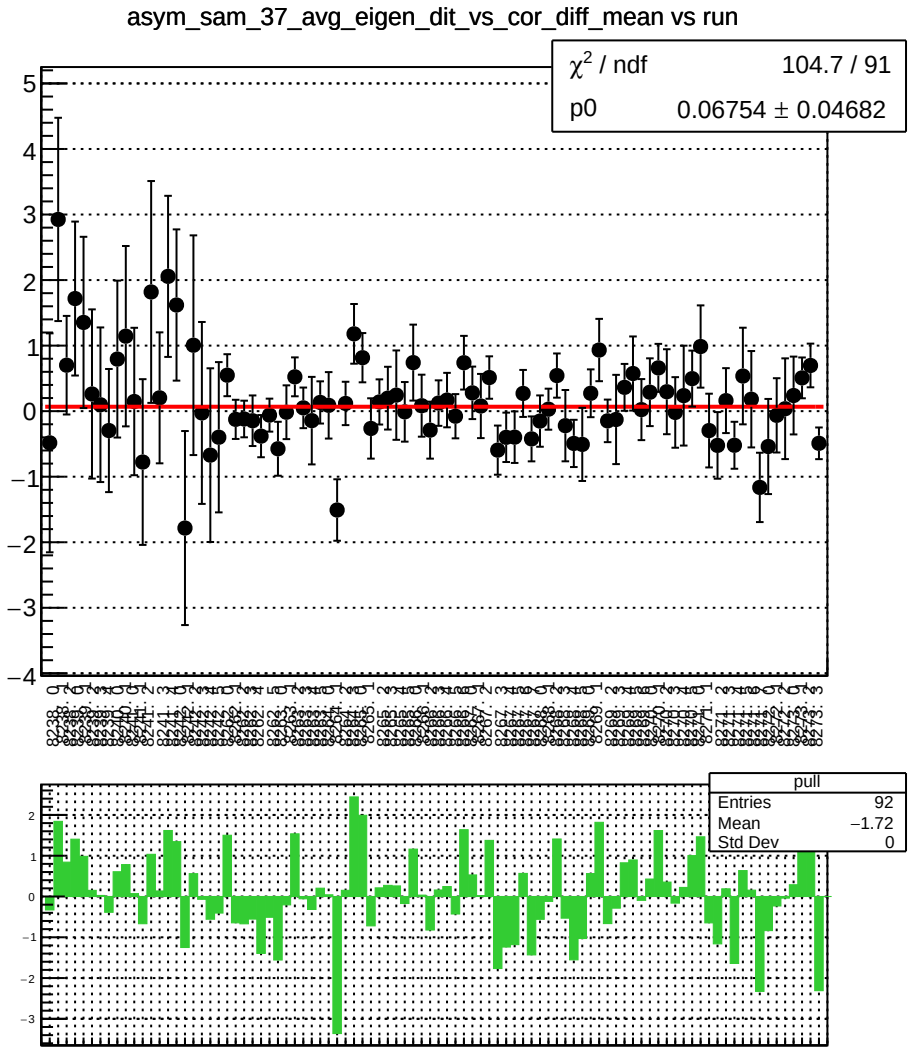

pull1D
Entries 92
Mean 0.06558
Std Dev 1.065

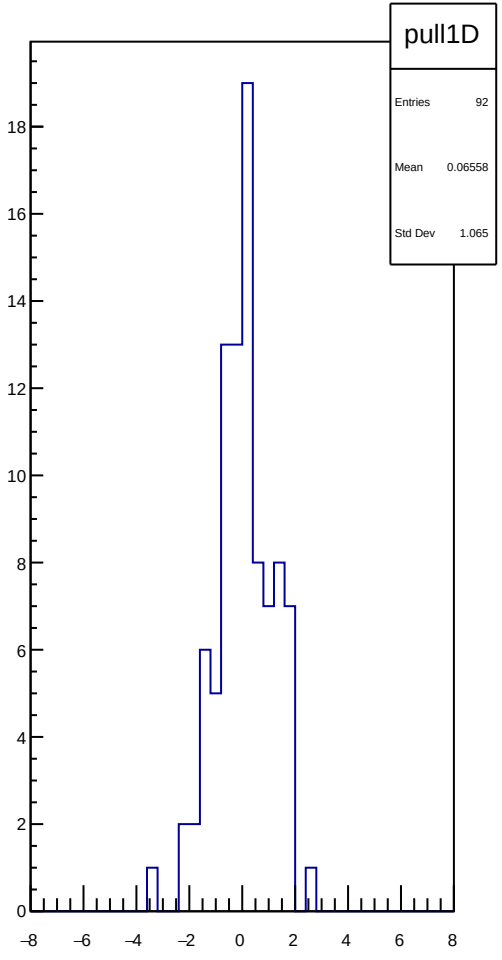

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.992e+05 / 91
p0 40.33 ± 0.03311
200
180
160
140
120
100
80
60
40
20

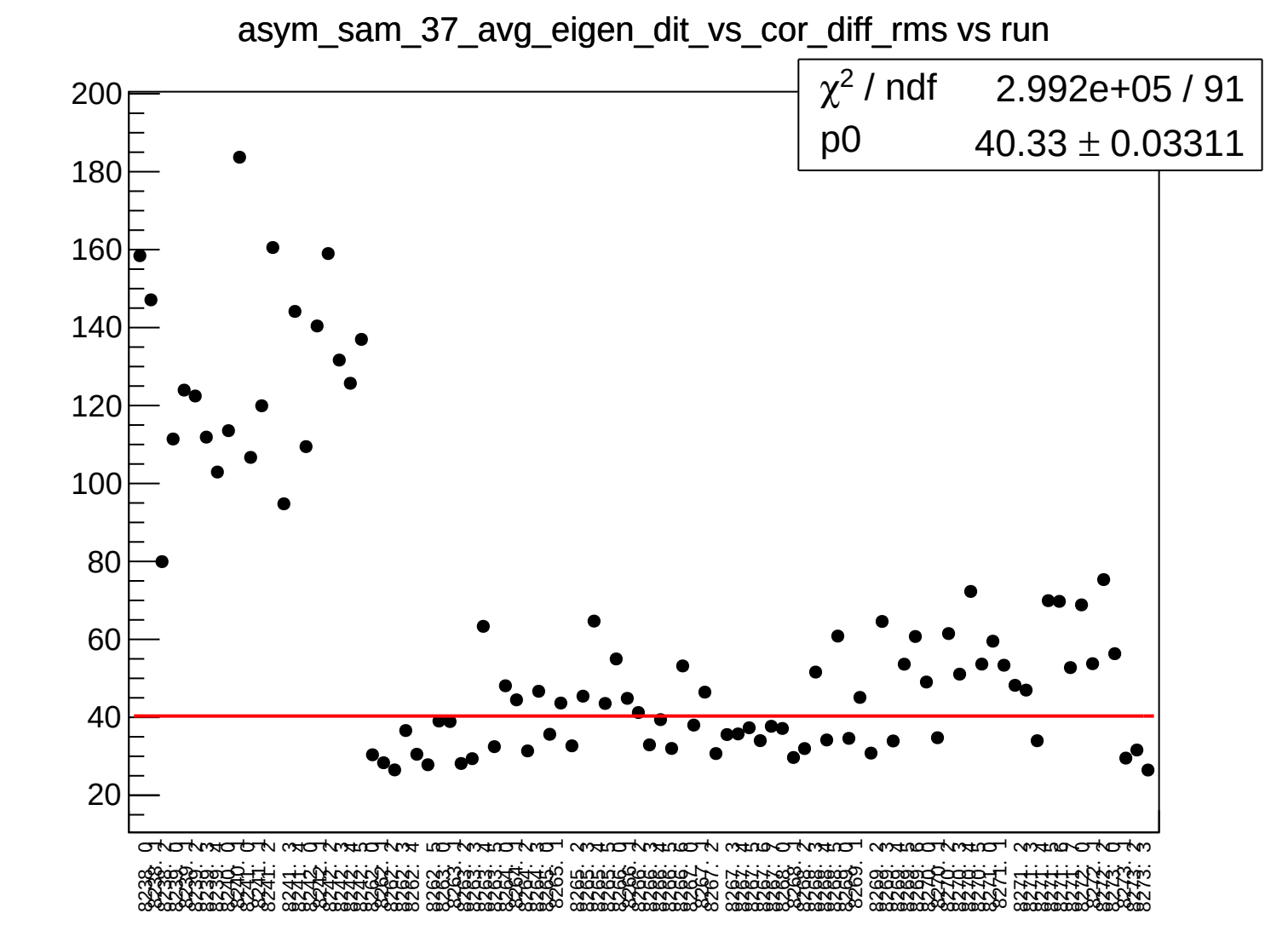

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.4 / 91
p0 1.712e−06 ± 1.556e−06
pull
Entries 92
Mean −10.74
Std Dev 0

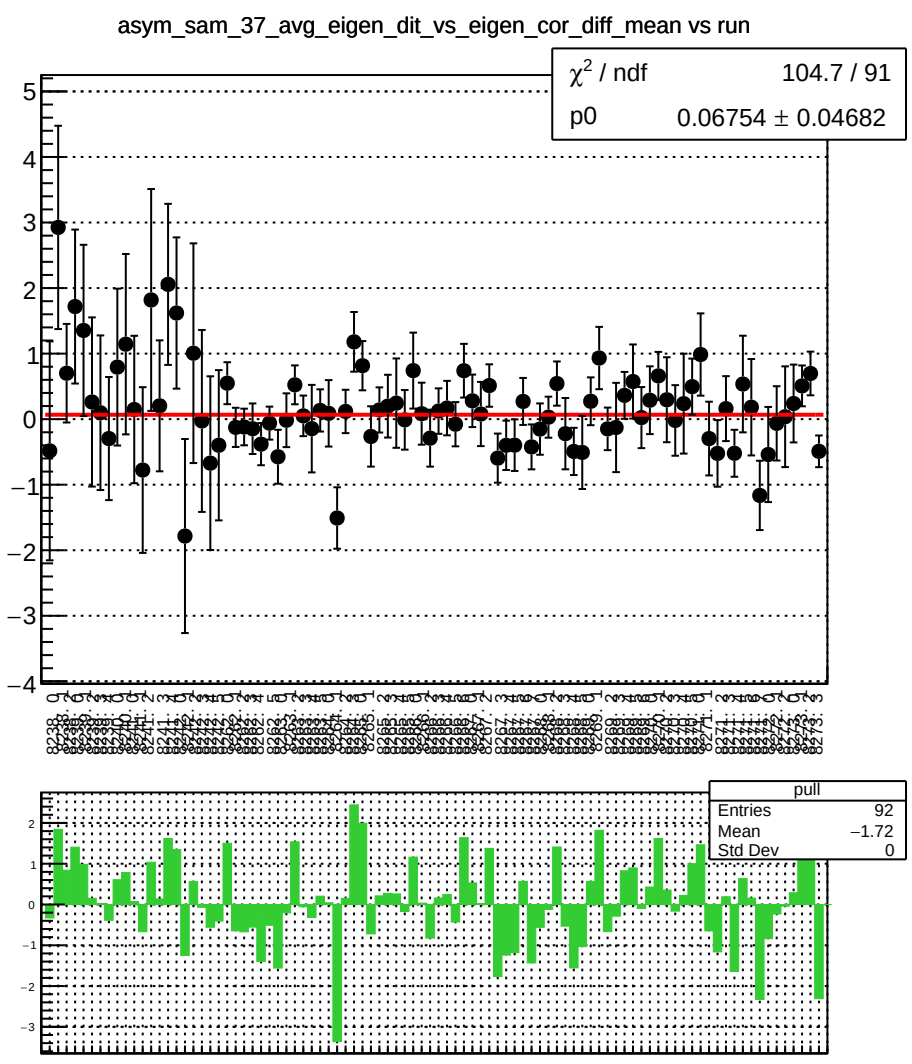

pull1D
Entries 92
Mean 0.1133
Std Dev 1.044

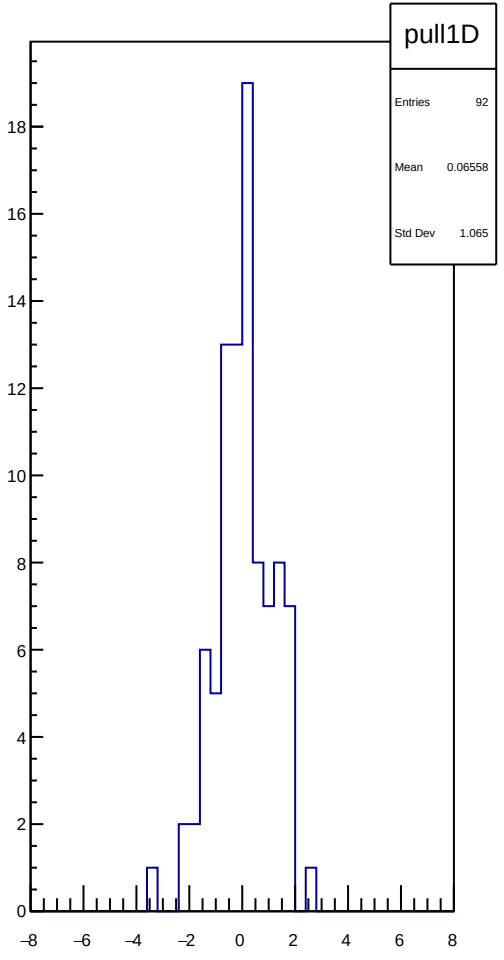

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.417e+05 / 91
p0 0.001365 ± 1.1e−06
0.006
0.005
0.004
0.003
0.002
0.001

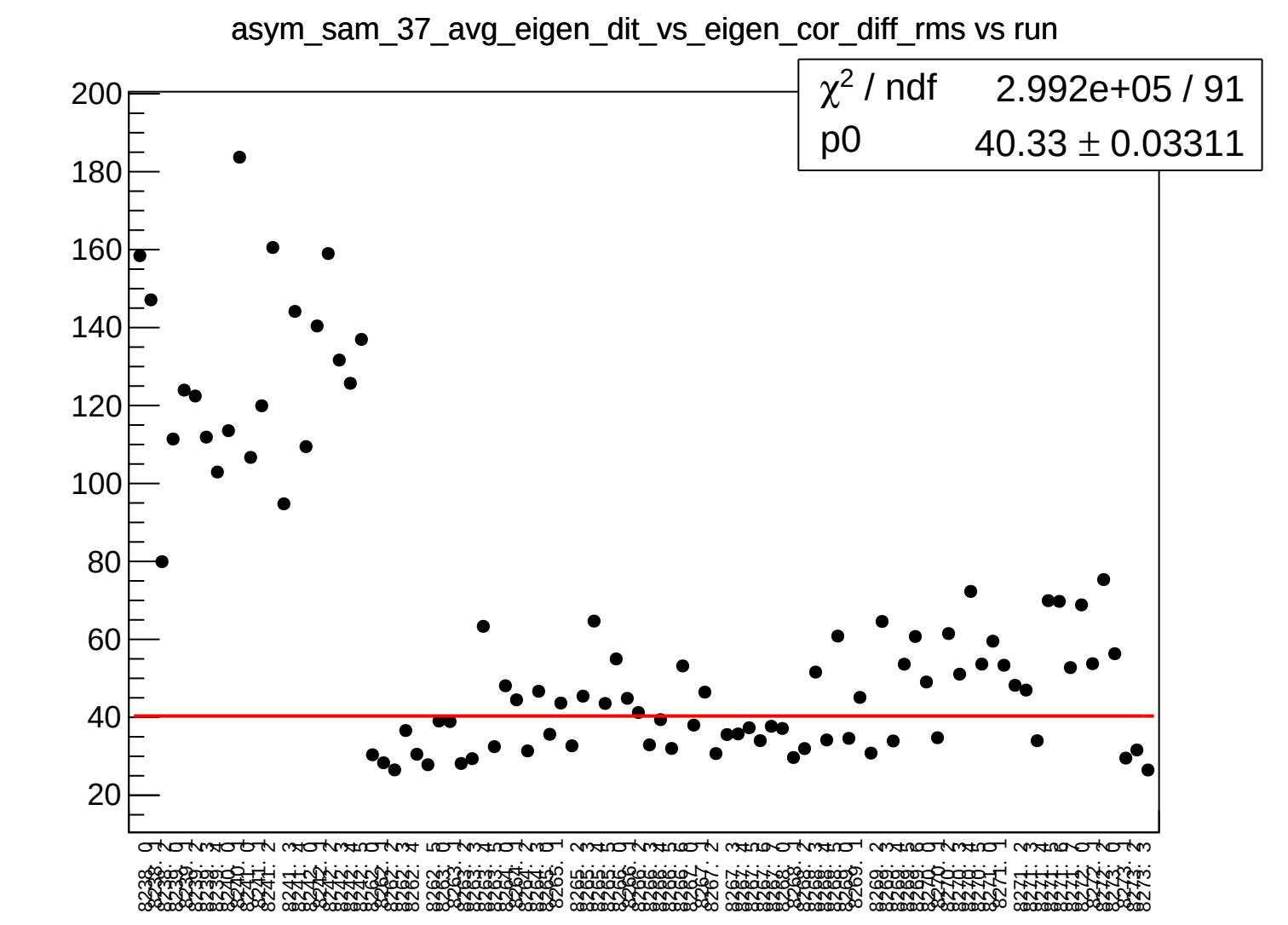

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 91
p0 0.06754 ± 0.04682
pull
Entries 92
Mean −1.72
Std Dev 0

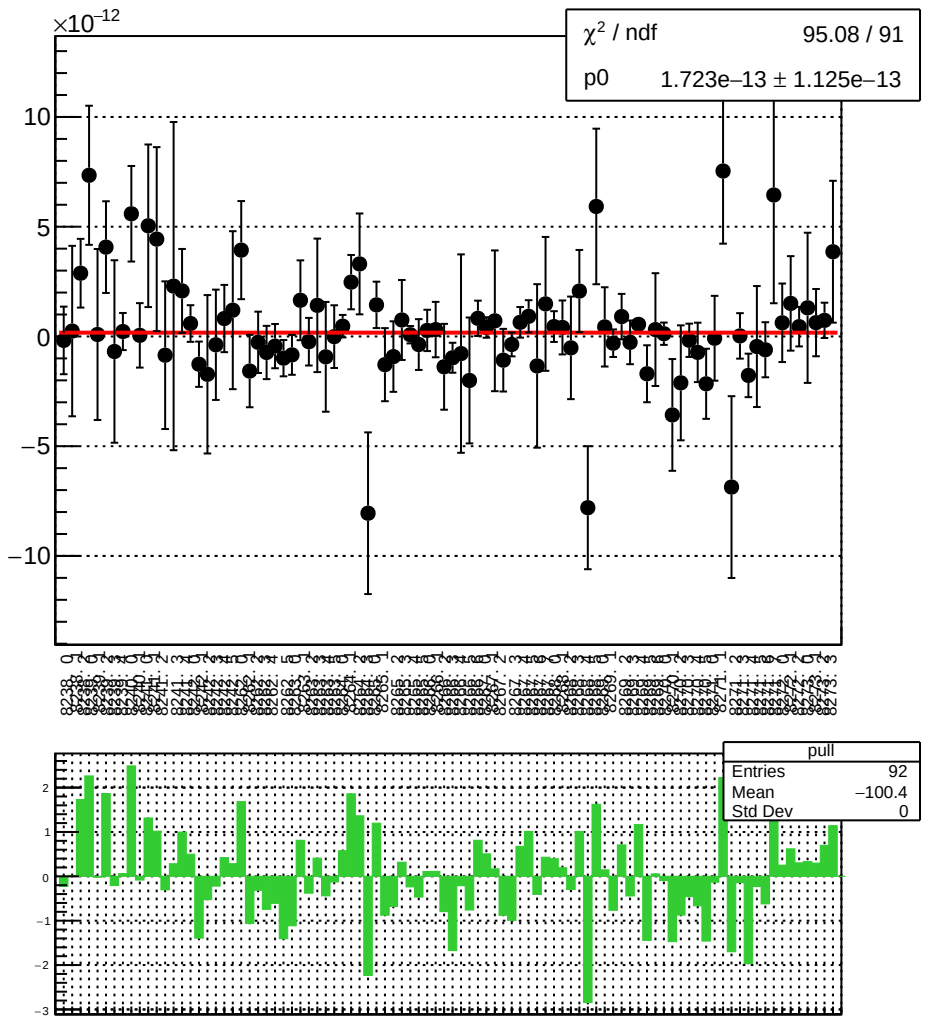

pull1D
Entries 92
Mean 0.06558
Std Dev 1.065

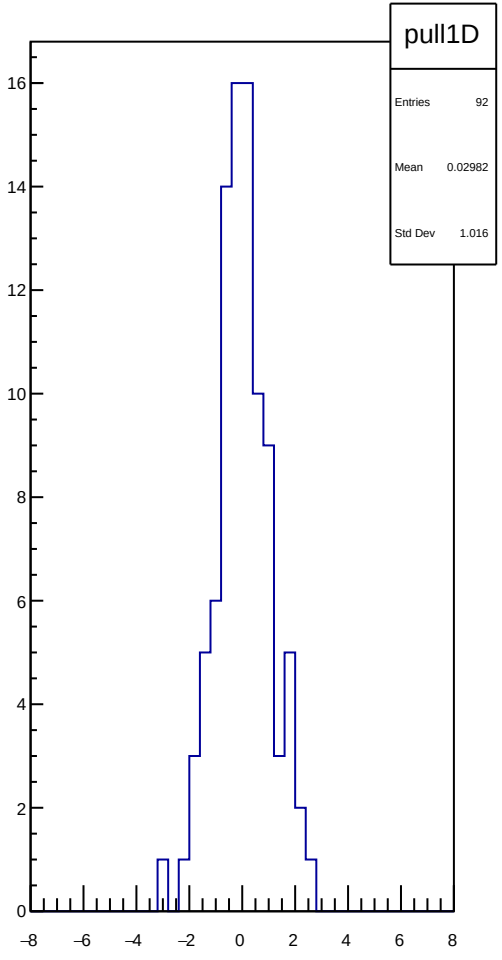

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 2.992e+05 / 91
p0 40.33 ± 0.03311
200
180
160
140
120
100
80
60
40
20

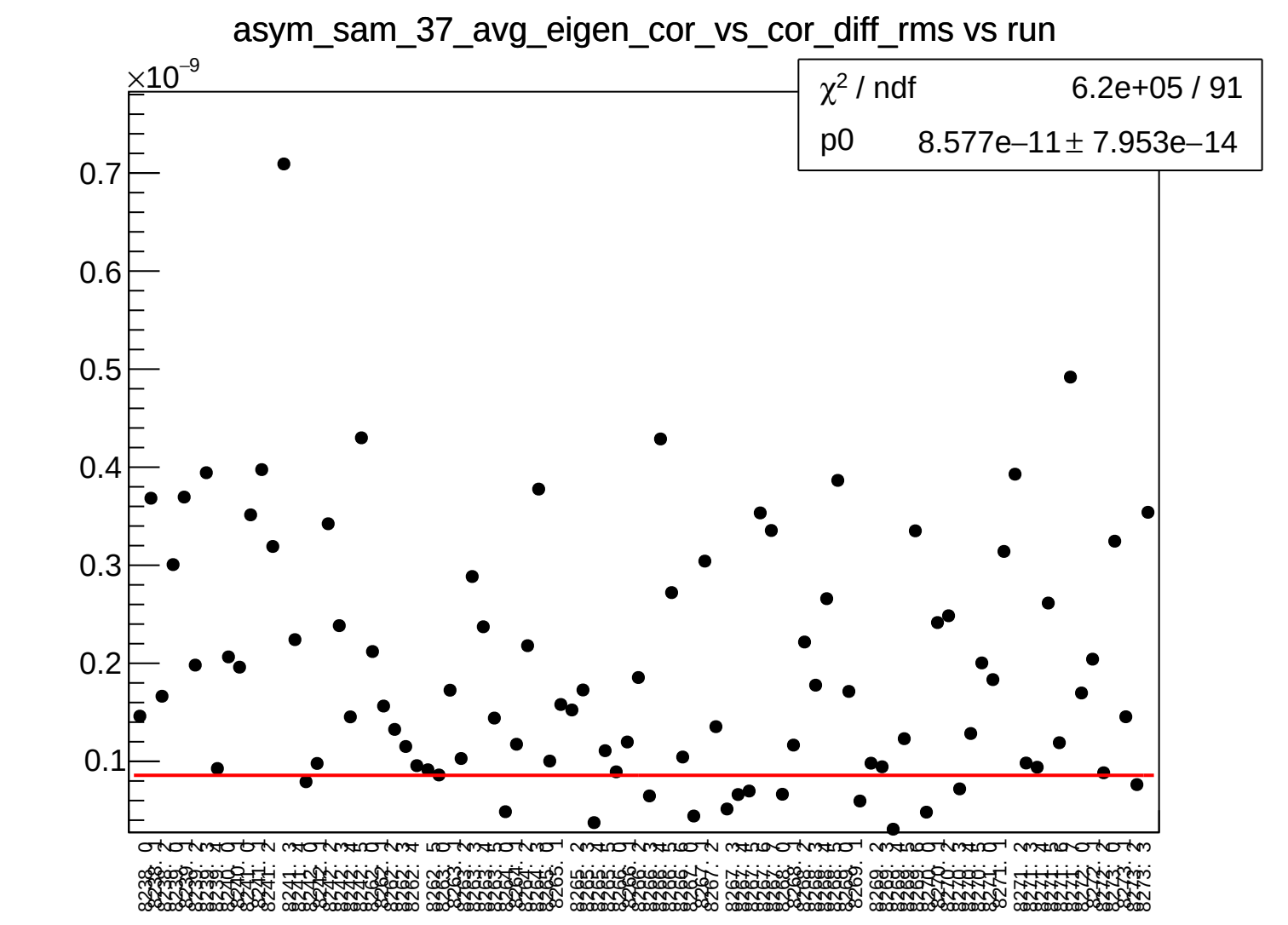

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.7 / 91
p0 0.06754 ± 0.04682
pull
Entries 92
Mean −1.72
Std Dev 0

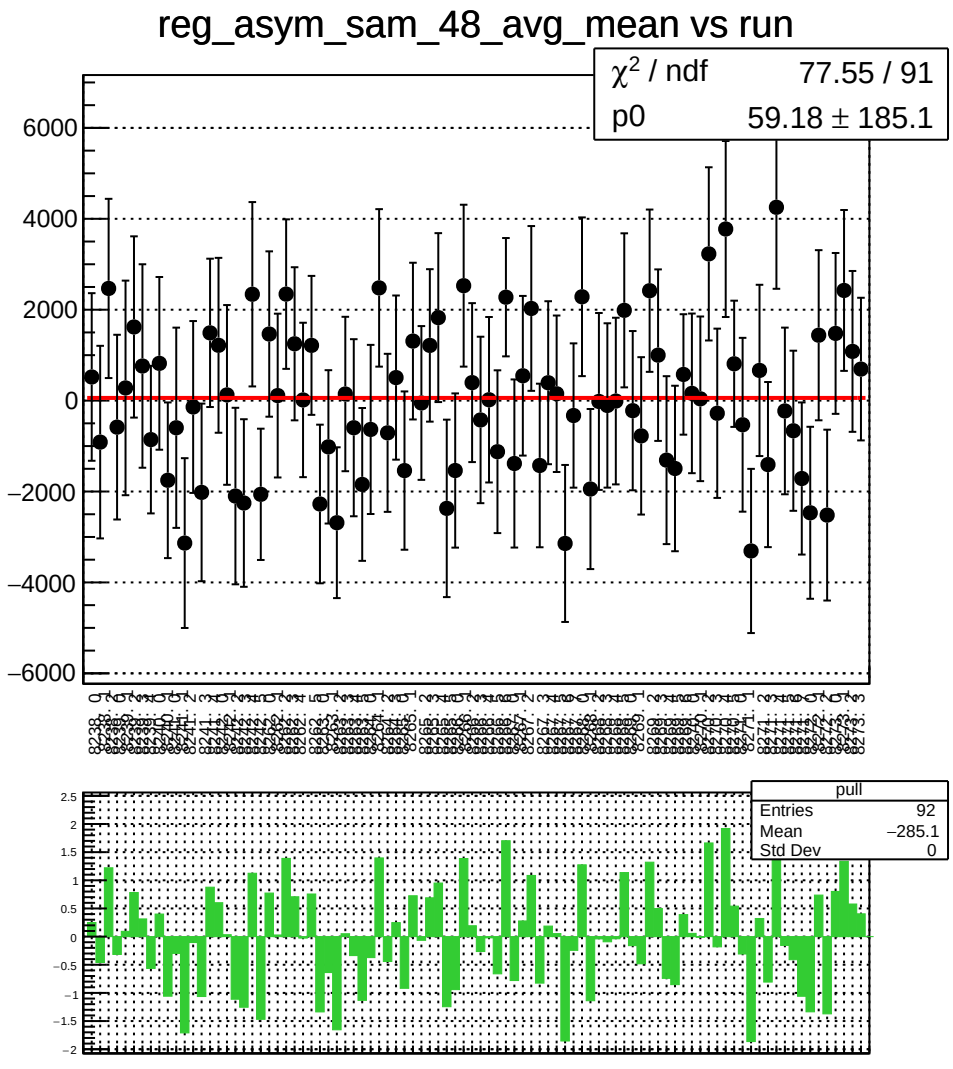

pull1D
Entries 92
Mean 0.06558
Std Dev 1.065

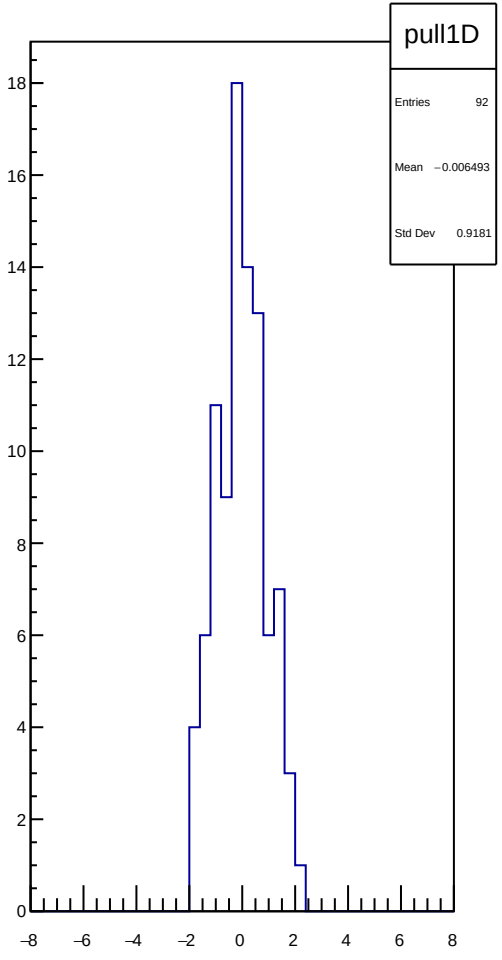

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.992e+05 / 91
p0 40.33 ± 0.03311
200
180
160
140
120
100
80
60
40
20

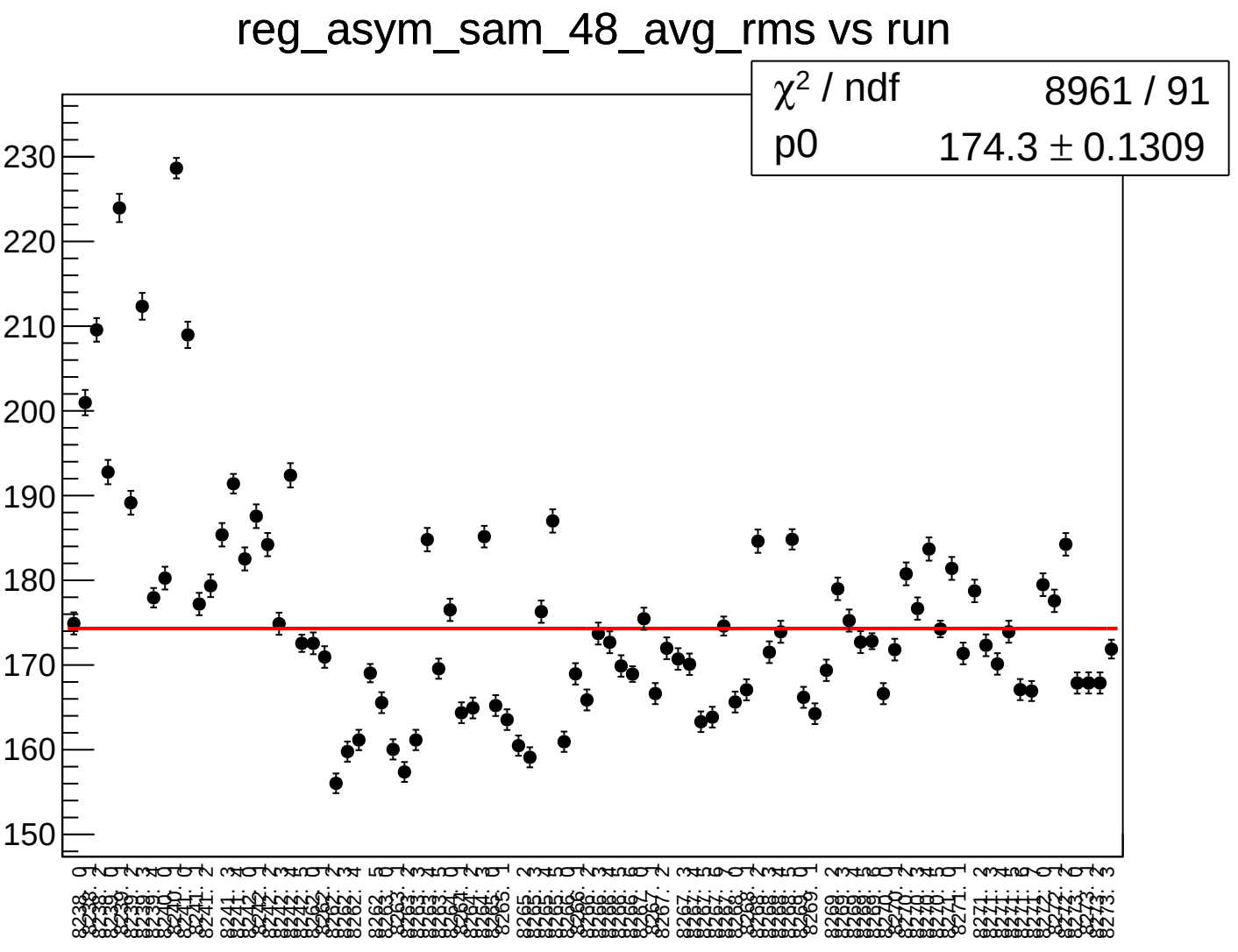

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.08 / 91
p0 1.723e−13 ± 1.125e−13
pull
Entries 92
Mean −100.4
Std Dev 0

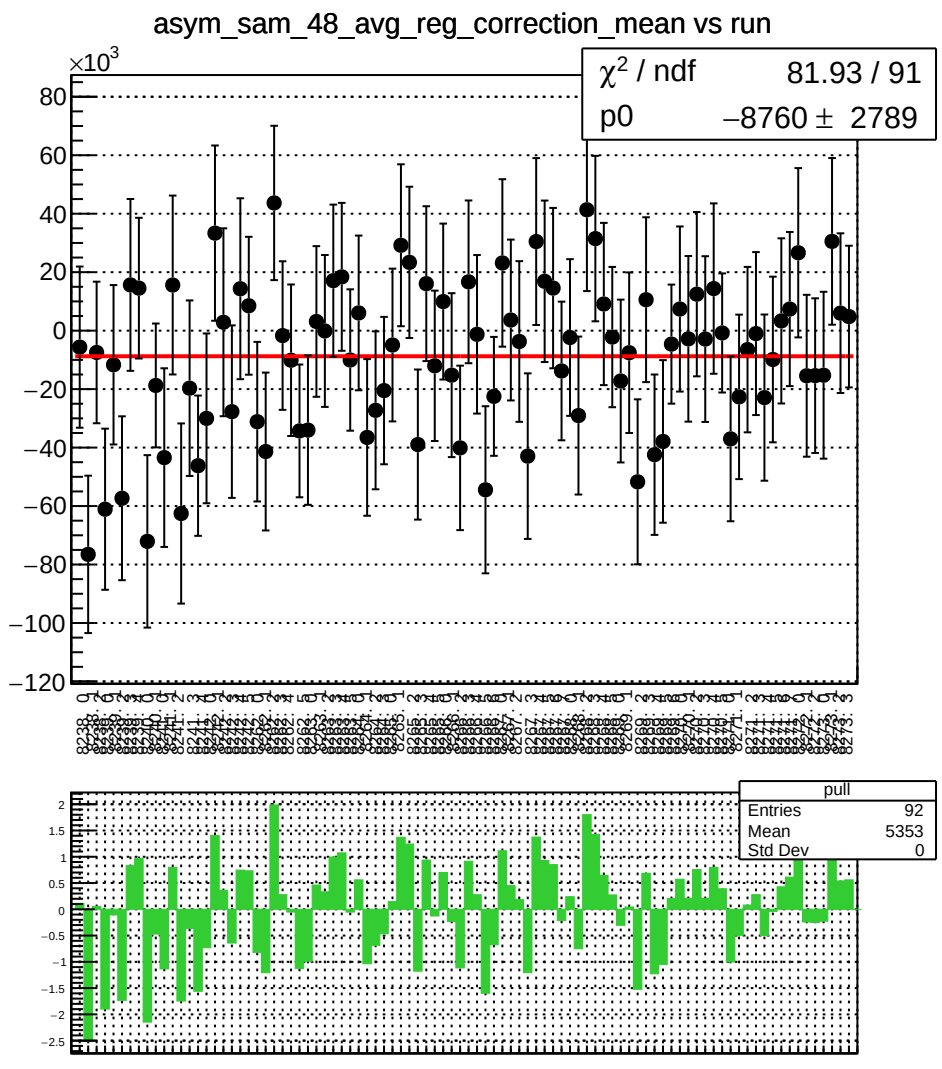

pull1D
Entries 92
Mean 0.02982
Std Dev 1.016

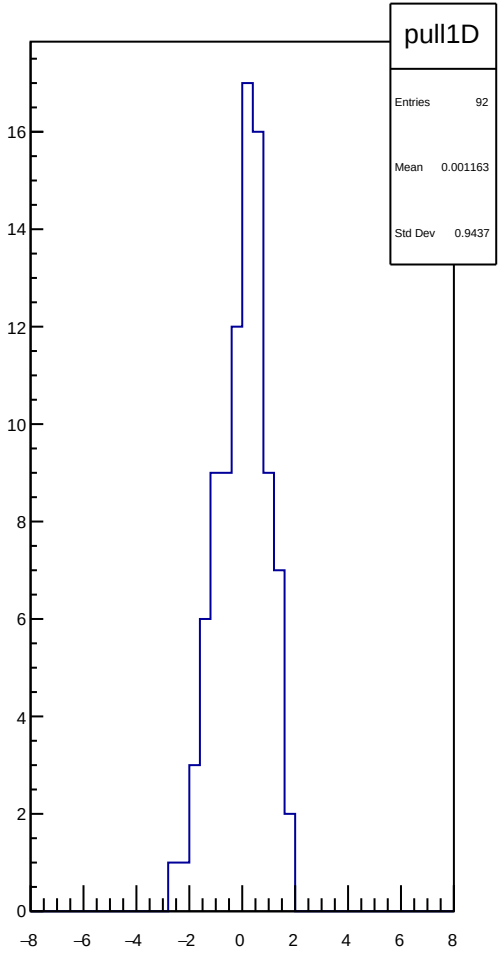

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.2e+05 / 91
p0 8.577e−11 ± 7.953e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

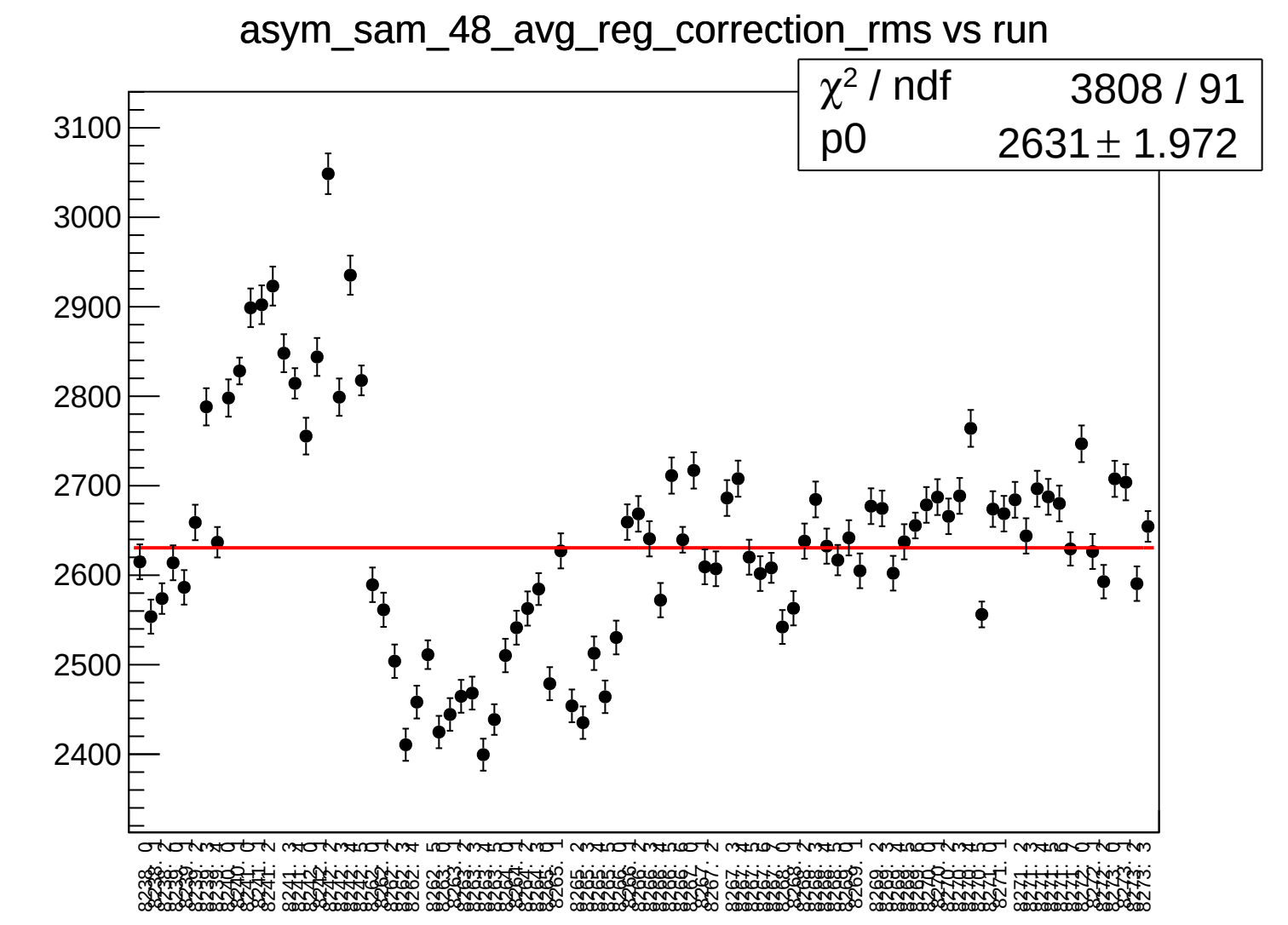

reg_asym_sam_48_avg_mean vs run
χ² / ndf 77.55 / 91
p0 59.18 ± 185.1
pull
Entries 92
Mean −285.1
Std Dev 0

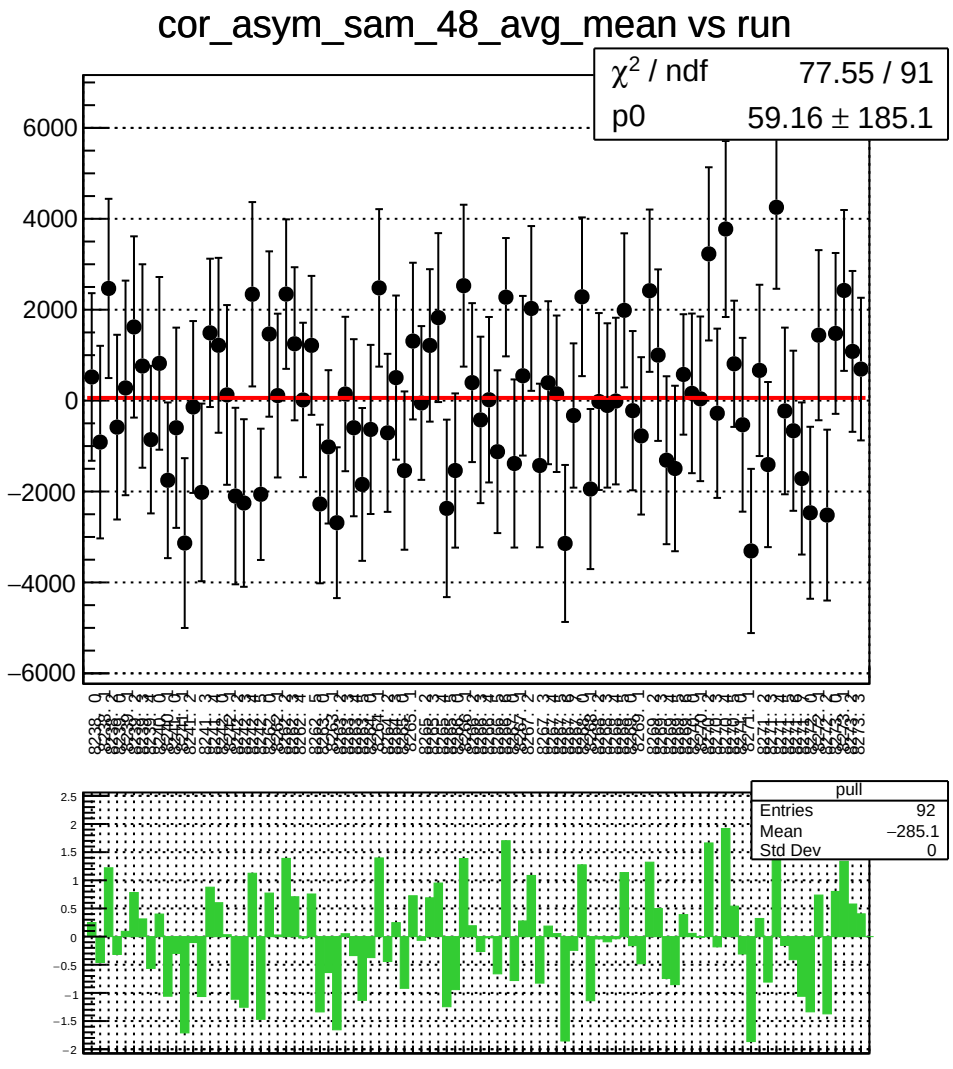

pull1D
Entries 92
Mean −0.006493
Std Dev 0.9181

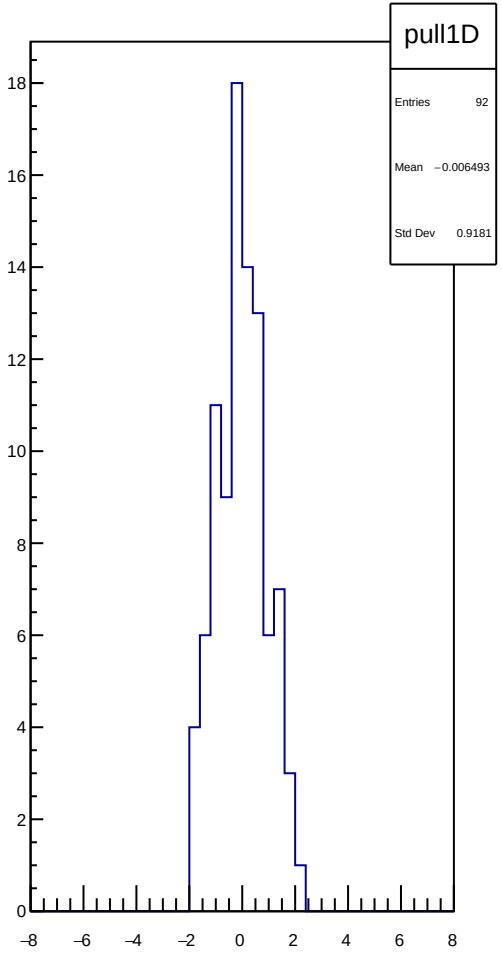

reg_asym_sam_48_avg_rms vs run
$\chi^2$ / ndf 8961 / 91
p0 174.3 ± 0.1309
230
220
210
200
190
180
170
160
150

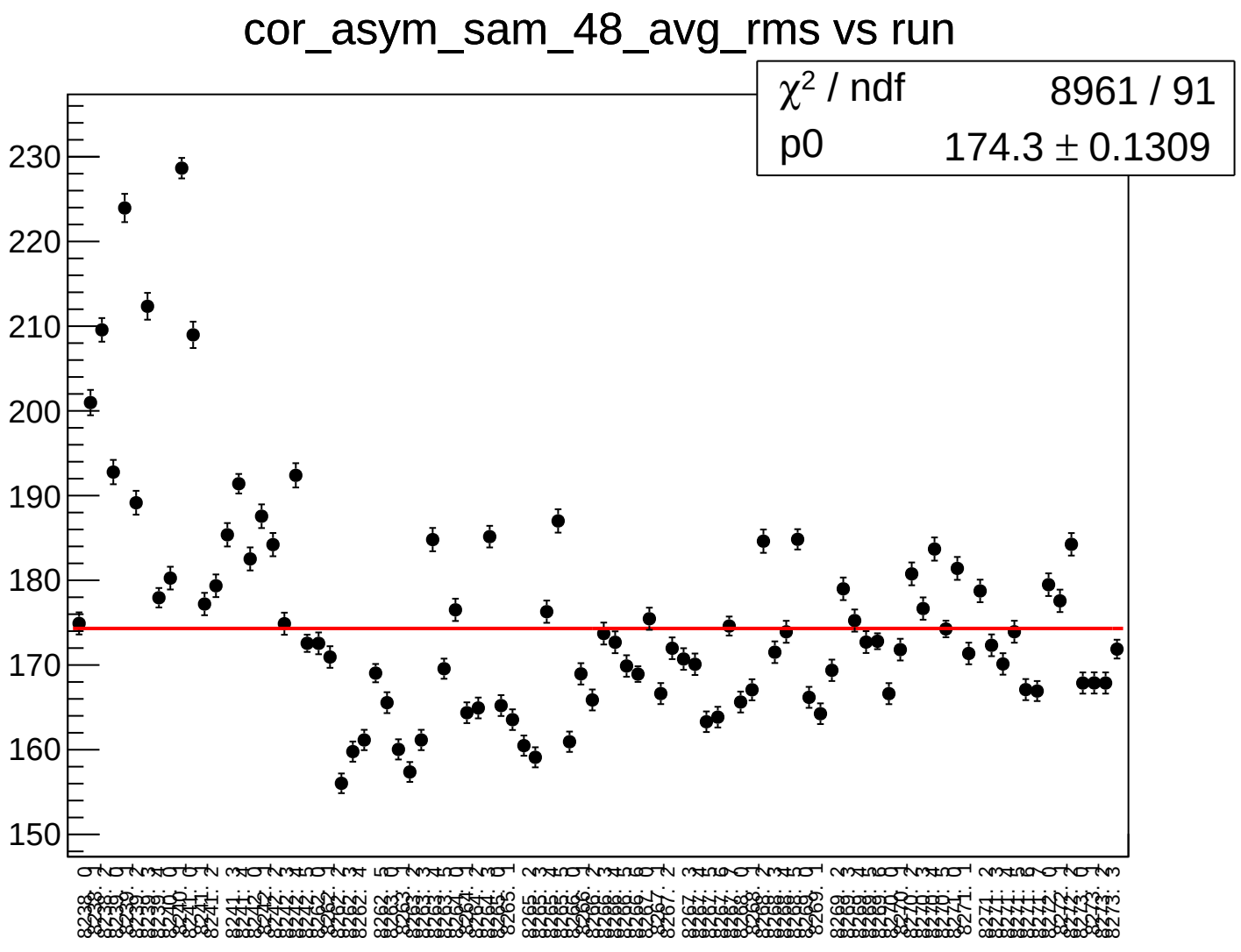

asym_sam_48_avg_reg_correction_mean vs run
×10^3
χ² / ndf 81.93 / 91
p0 −8760 ± 2789
pull
Entries 92
Mean 5353
Std Dev 0

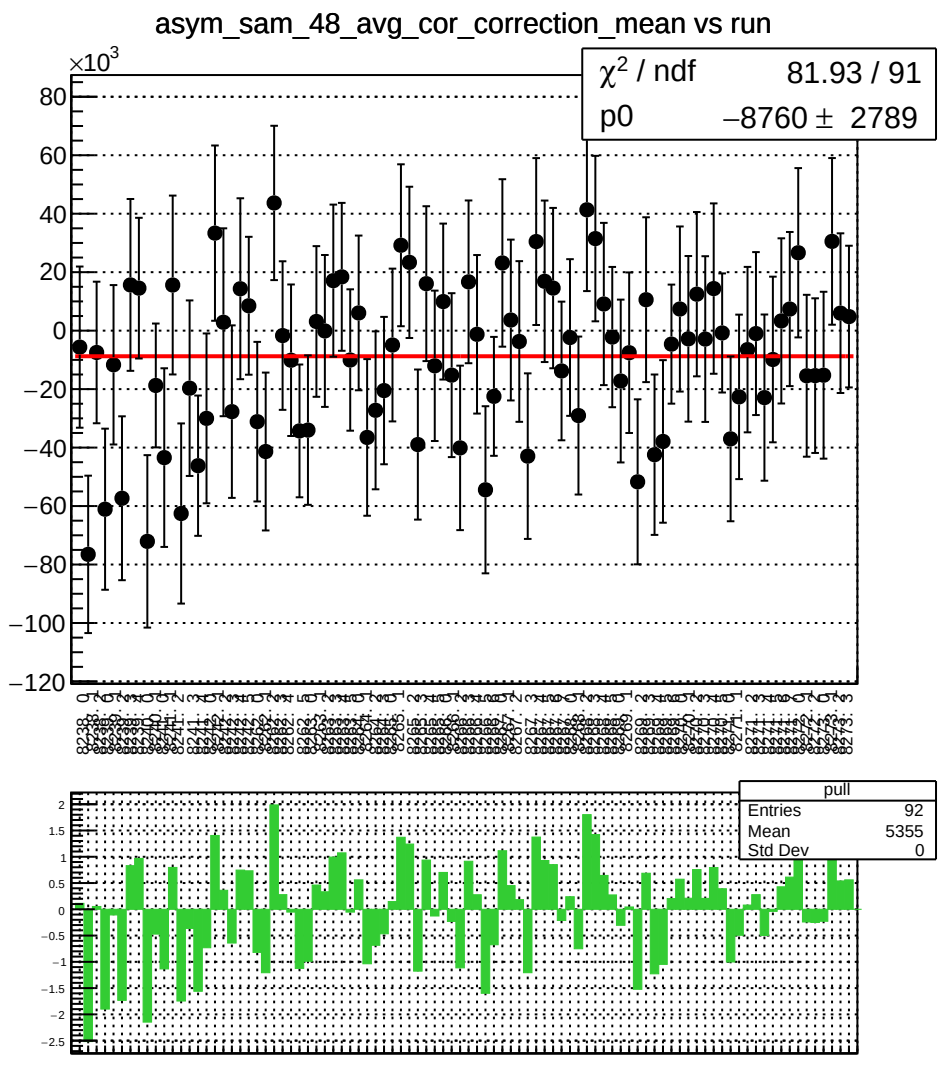

pull1D
Entries 92
Mean 0.001163
Std Dev 0.9437

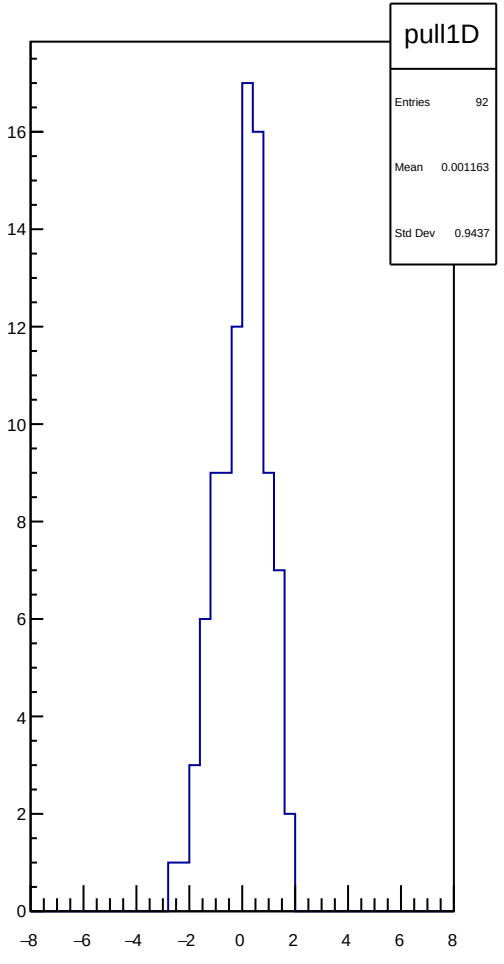

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 3808 / 91
p0 2631 ± 1.972
3100
3000
2900
2800
2700
2600
2500
2400

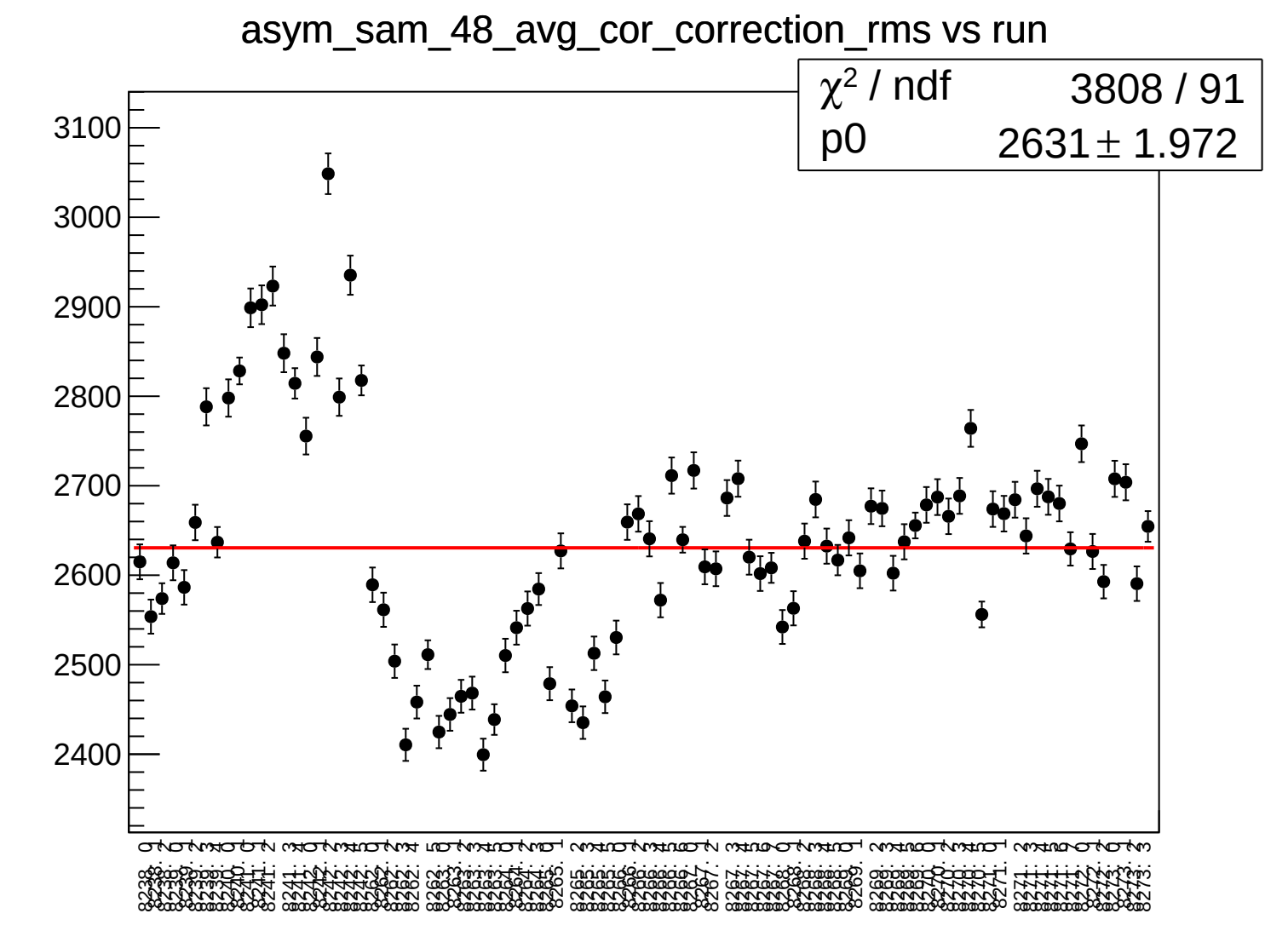

cor_asym_sam_48_avg_mean vs run
χ² / ndf 77.55 / 91
p0 59.16 ± 185.1
pull
Entries 92
Mean −285.1
Std Dev 0

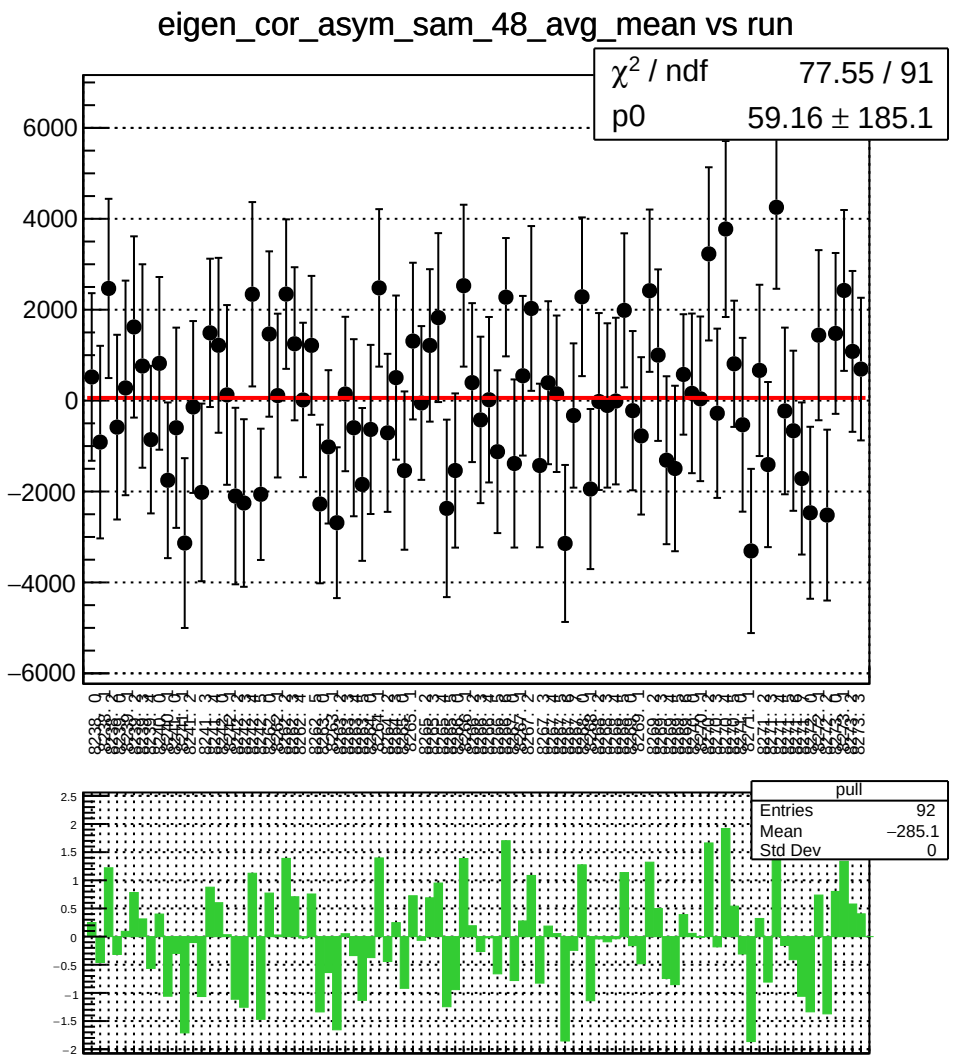

pull1D
Entries 92
Mean −0.006493
Std Dev 0.9181

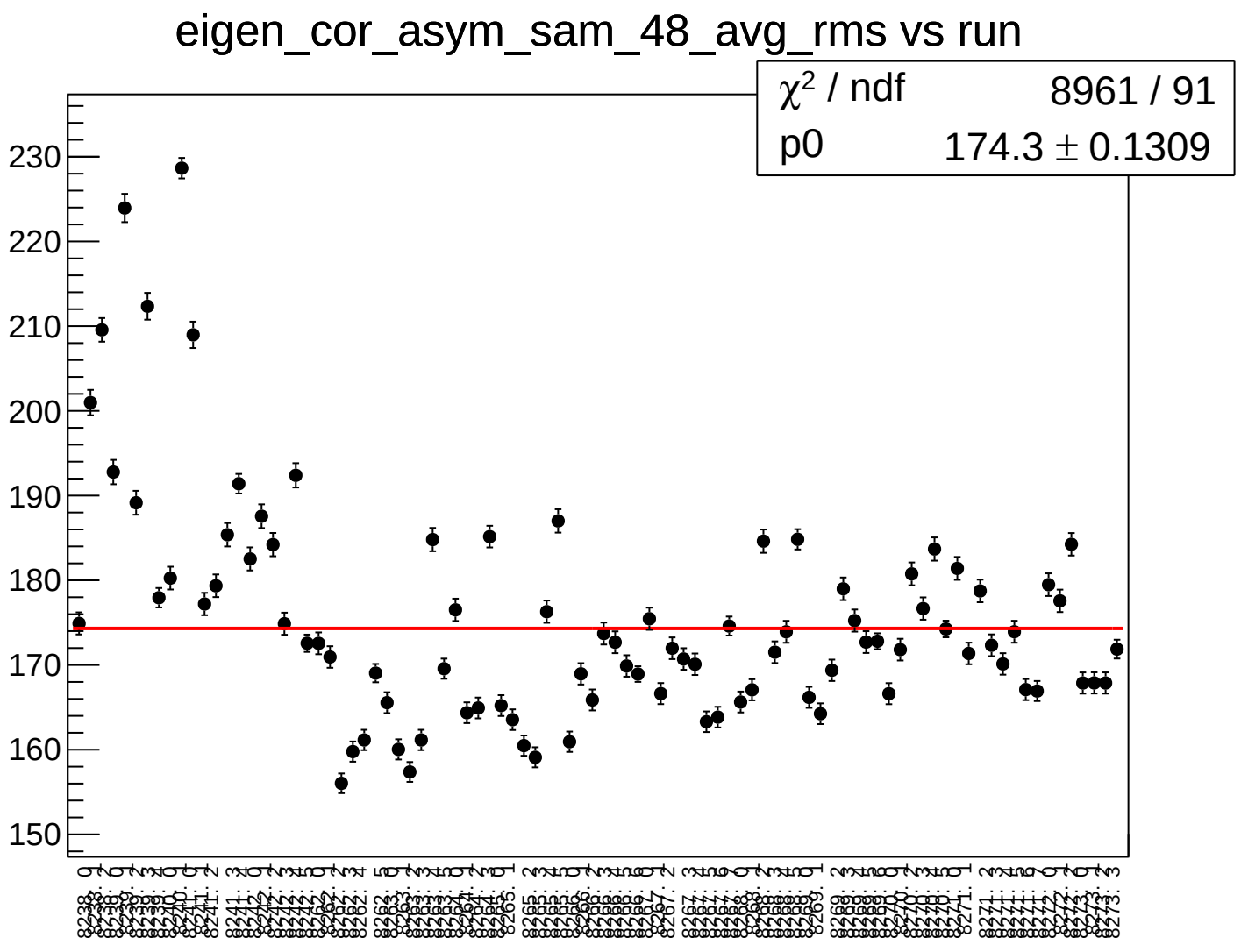

cor_asym_sam_48_avg_rms vs run
χ² / ndf 8961 / 91
p0 174.3 ± 0.1309
230
220
210
200
190
180
170
160
150

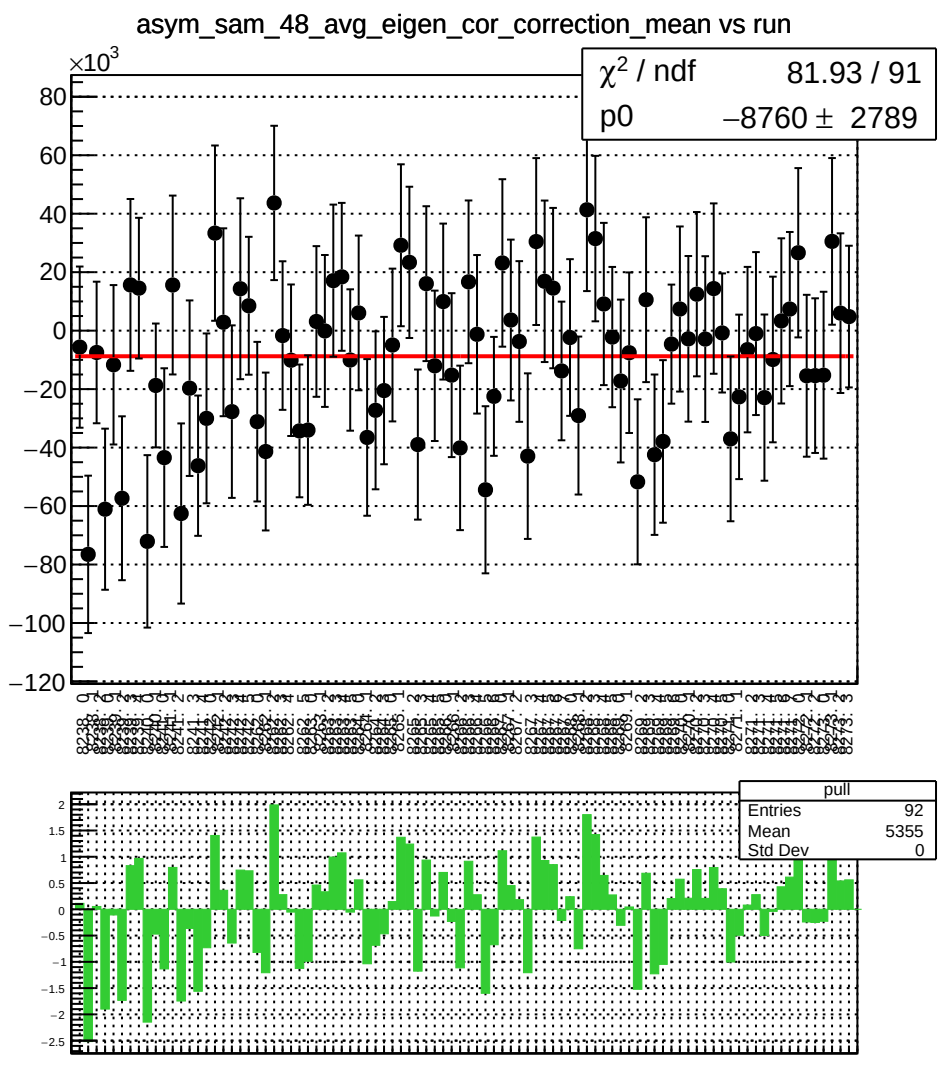

asym_sam_48_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 81.93 / 91
p0 −8760 ± 2789
pull
Entries 92
Mean 5355
Std Dev 0

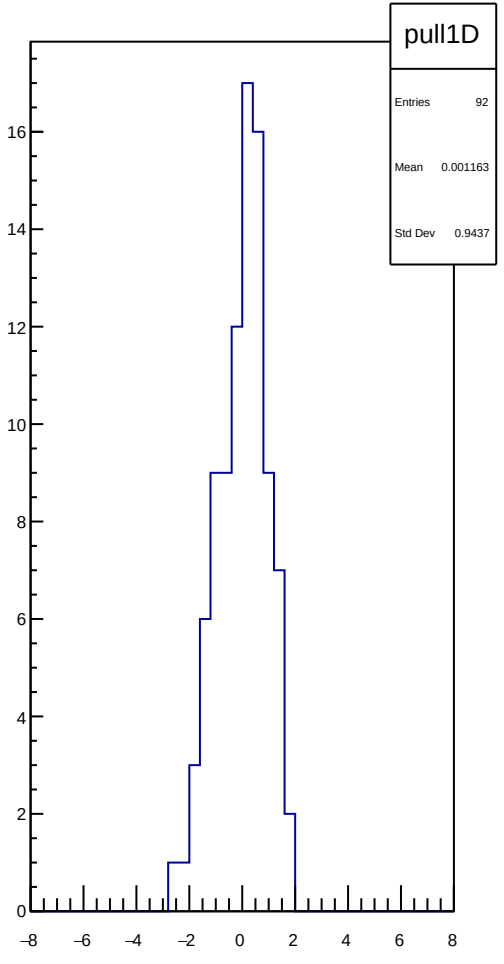

pull1D
Entries 92
Mean 0.001163
Std Dev 0.9437

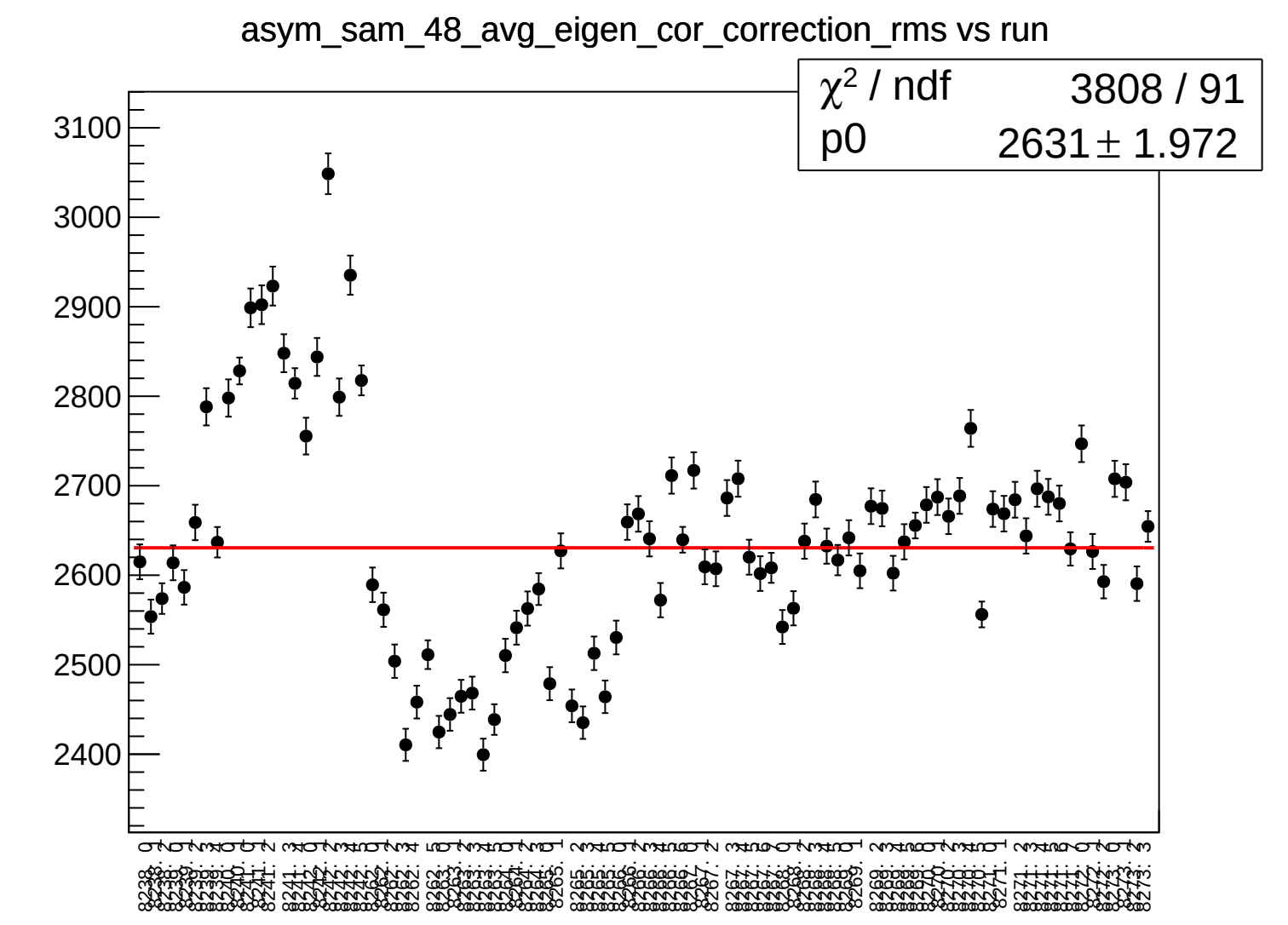

asym_sam_48_avg_cor_correction_rms vs run
$\chi^2$ / ndf 3808 / 91
p0 2631 ± 1.972
3100
3000
2900
2800
2700
2600
2500
2400

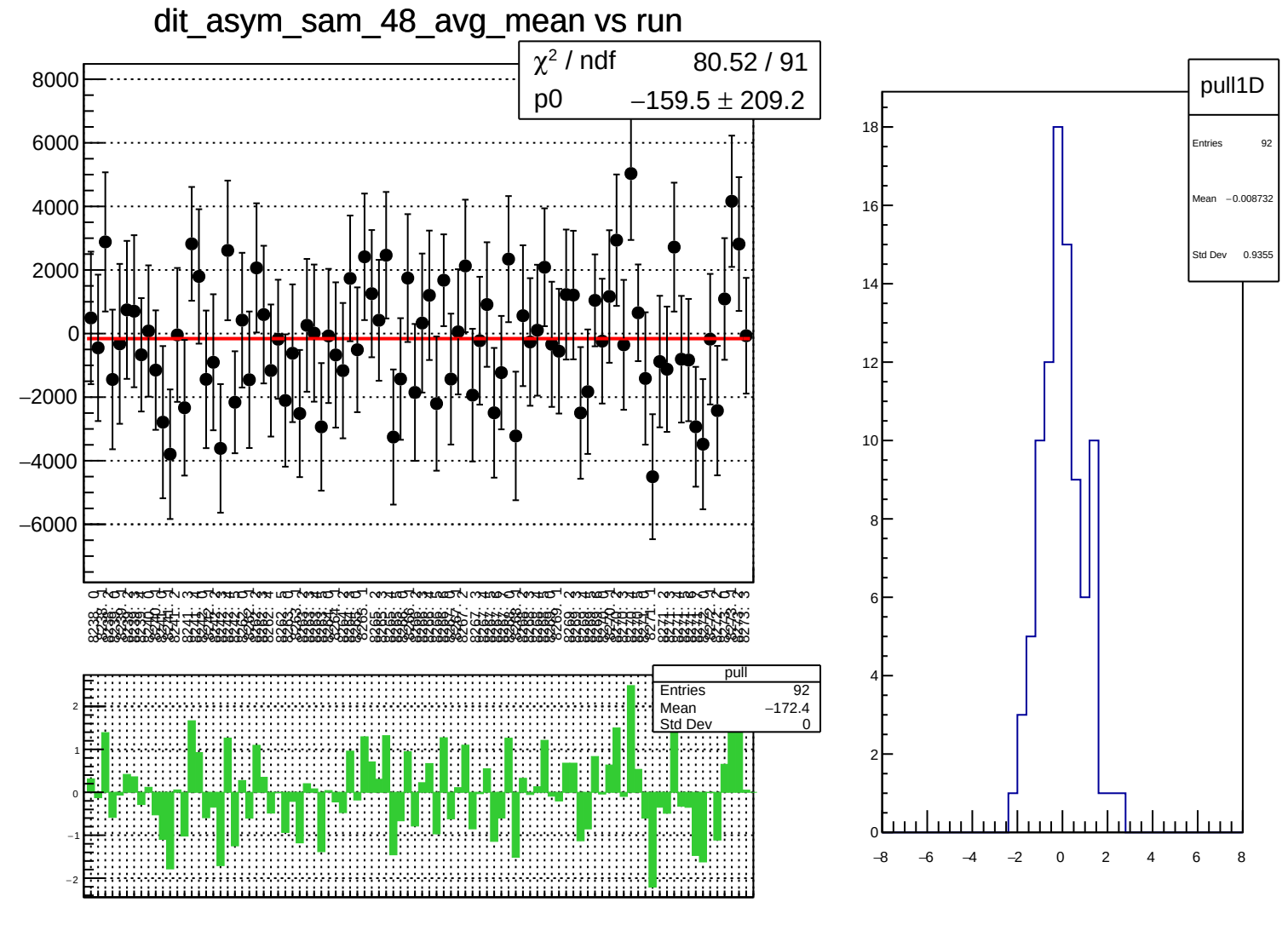

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 77.55 / 91
p0 59.16 ± 185.1
pull
Entries 92
Mean −285.1
Std Dev 0
pull1D
Entries 92
Mean −0.006493
Std Dev 0.9181

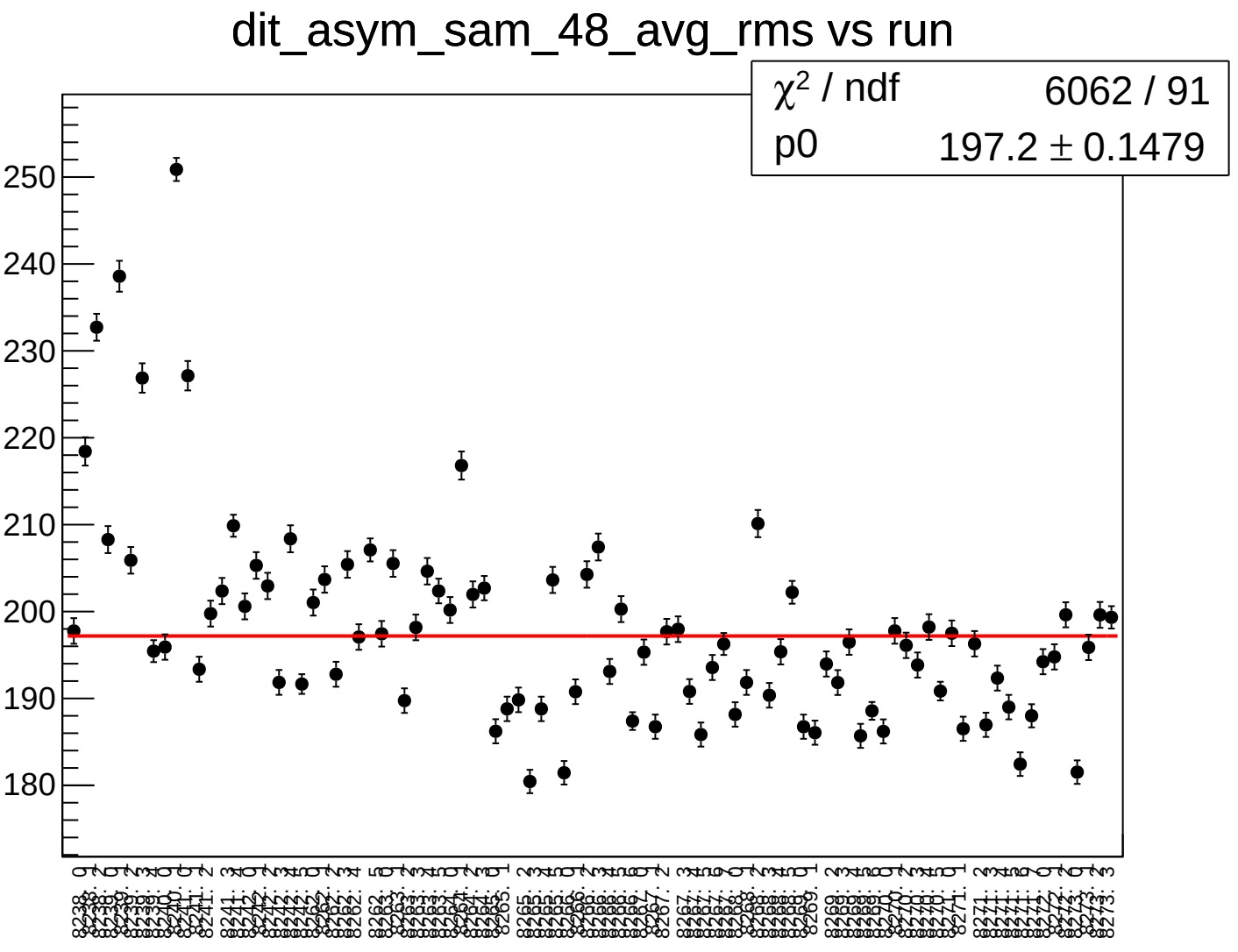

eigen_cor_asym_sam_48_avg_rms vs run
$\chi^2$ / ndf 8961 / 91
p0 174.3 ± 0.1309
230
220
210
200
190
180
170
160
150

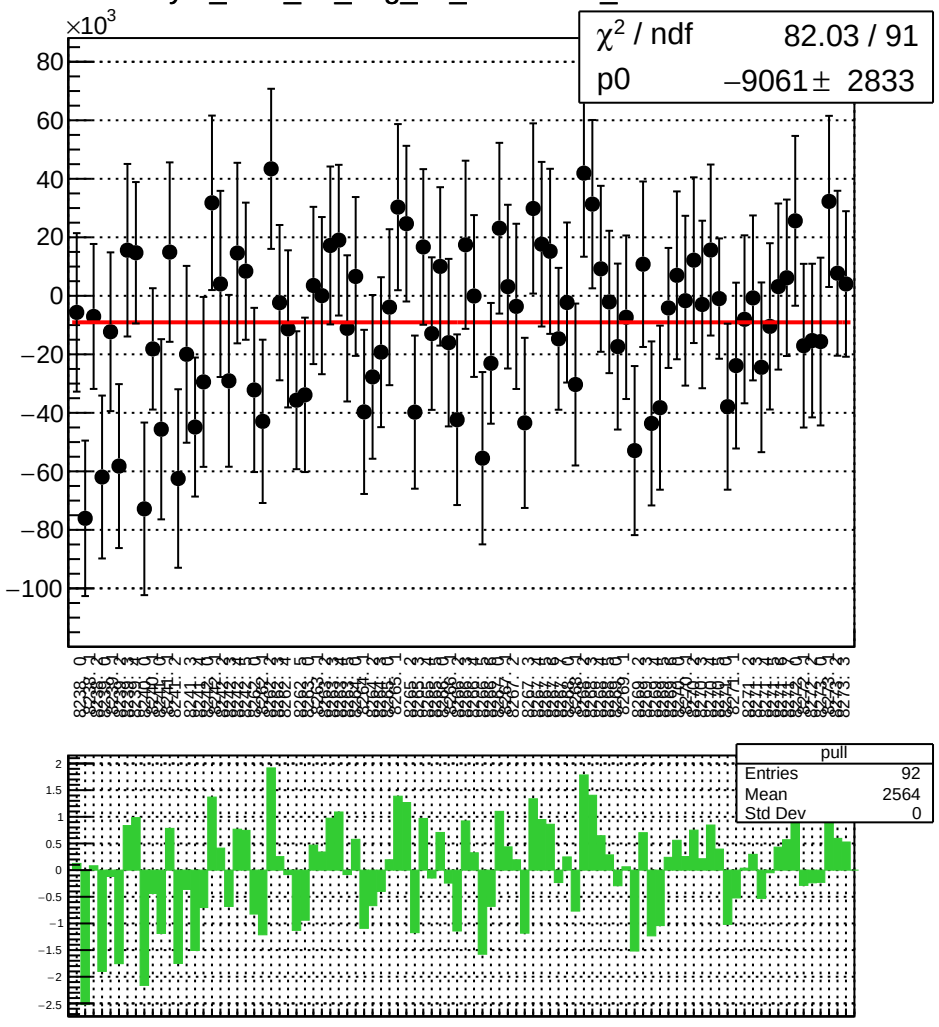

asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 81.93 / 91
p0 −8760 ± 2789
pull
Entries 92
Mean 5355
Std Dev 0

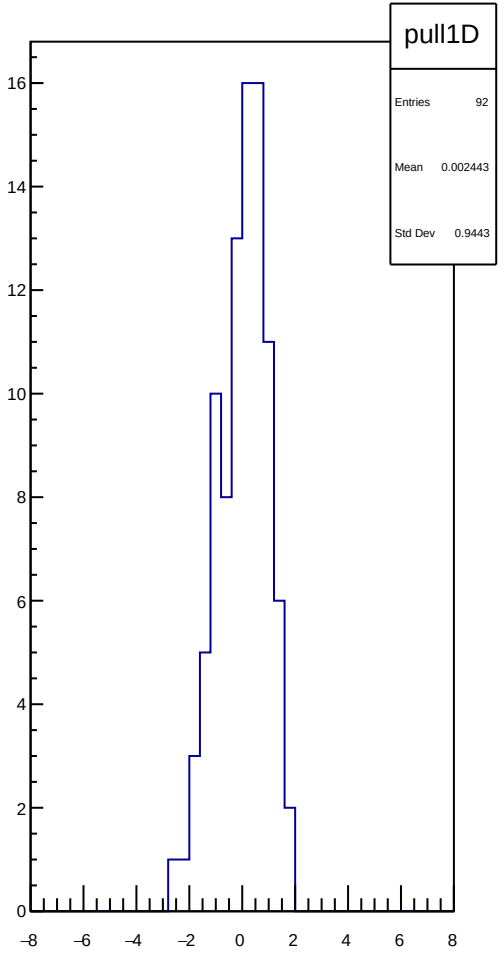

pull1D
Entries 92
Mean 0.001163
Std Dev 0.9437

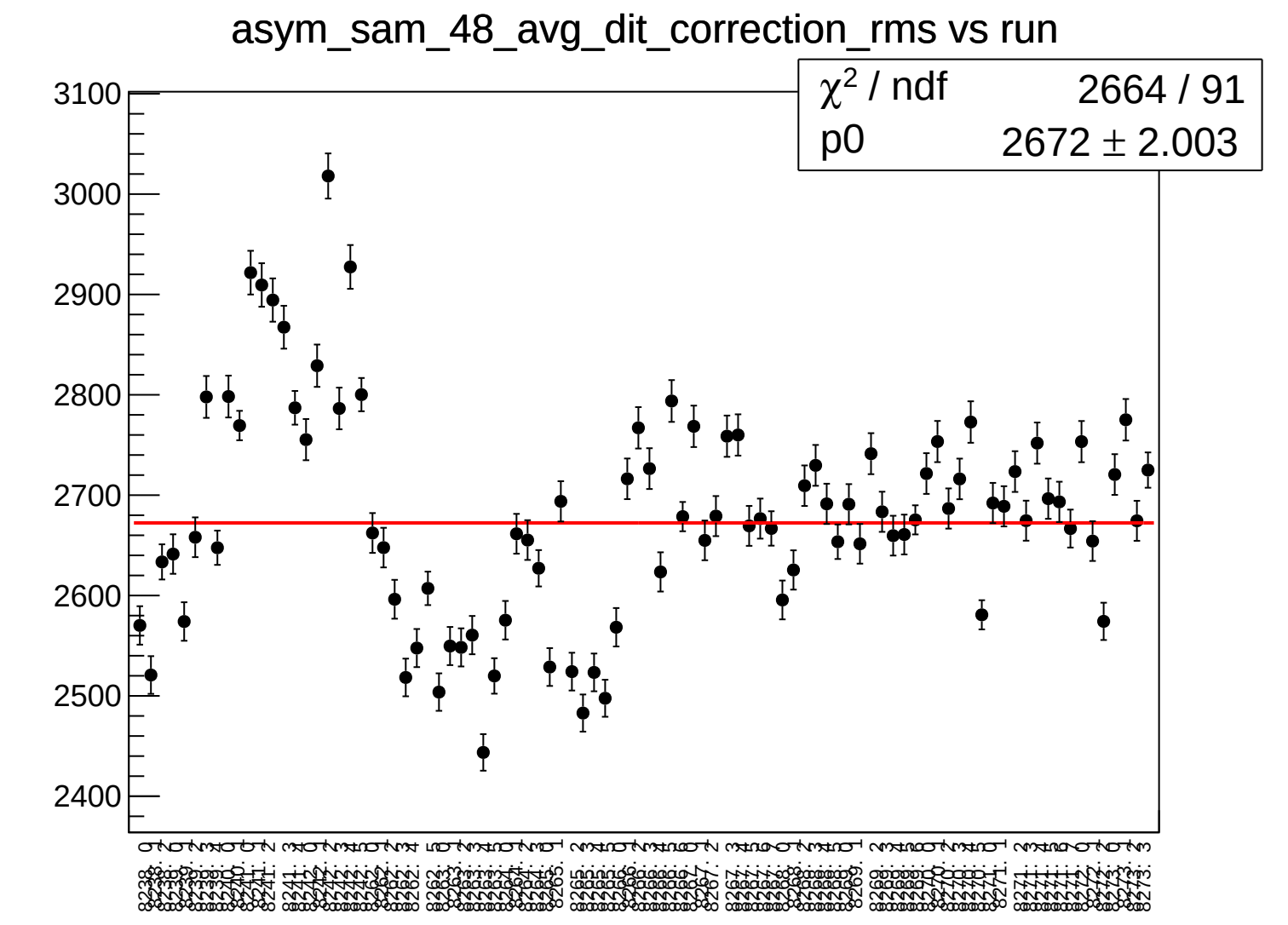

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 3808 / 91
p0 2631 ± 1.972
3100
3000
2900
2800
2700
2600
2500
2400

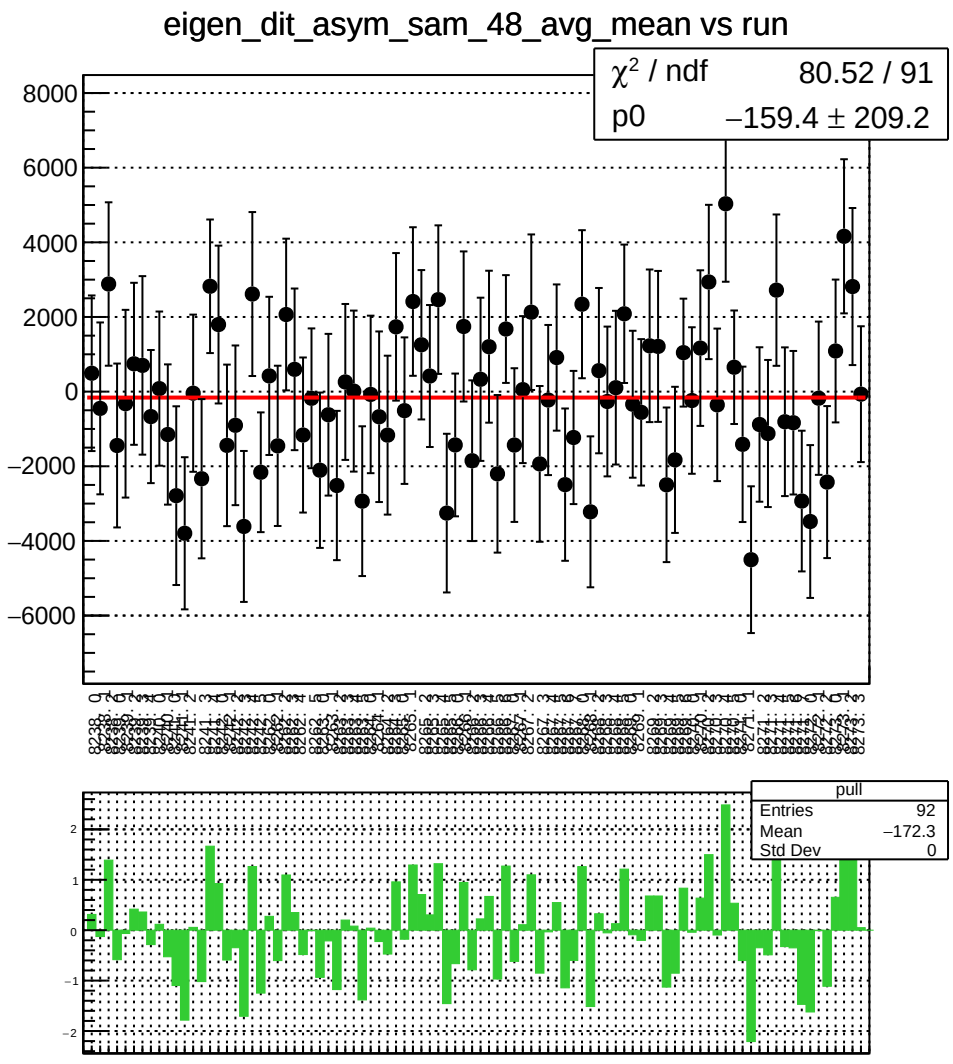

dit_asym_sam_48_avg_mean vs run
χ² / ndf 80.52 / 91
p0 −159.5 ± 209.2
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −172.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.008732
Std Dev 0.9355
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

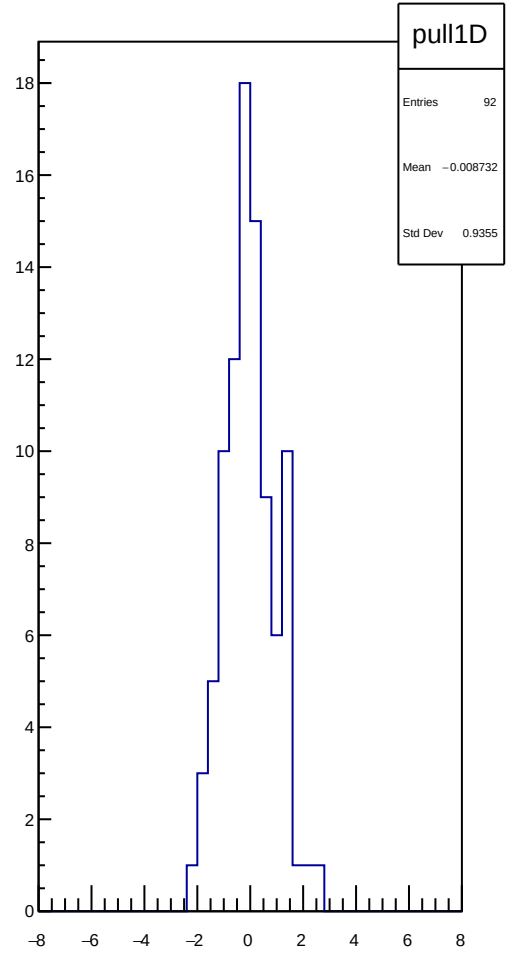

dit_asym_sam_48_avg_rms vs run
χ² / ndf 6062 / 91
p0 197.2 ± 0.1479
250
240
230
220
210
200
190
180

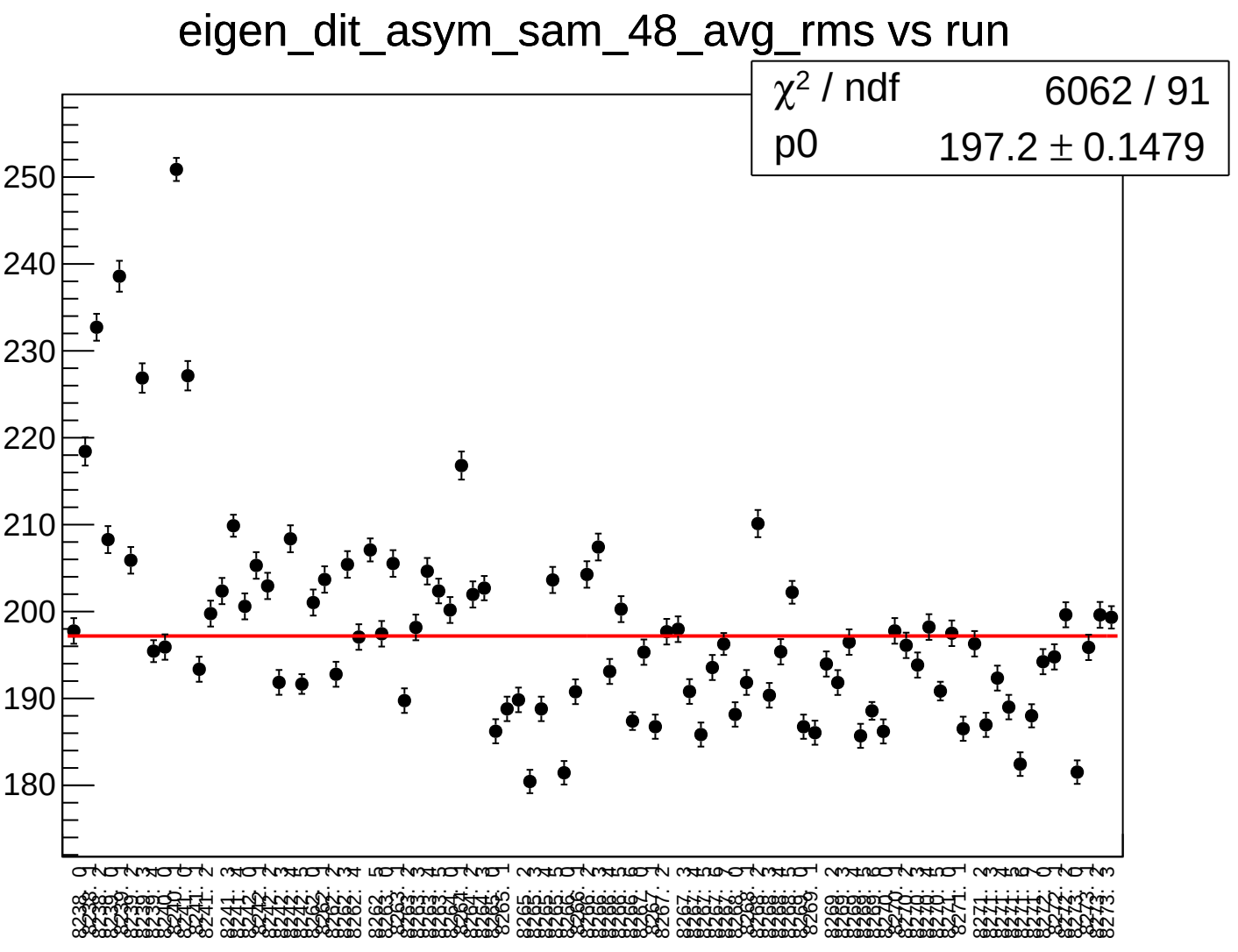

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 82.03 / 91
p0 −9061 ± 2833
pull
Entries 92
Mean 2564
Std Dev 0

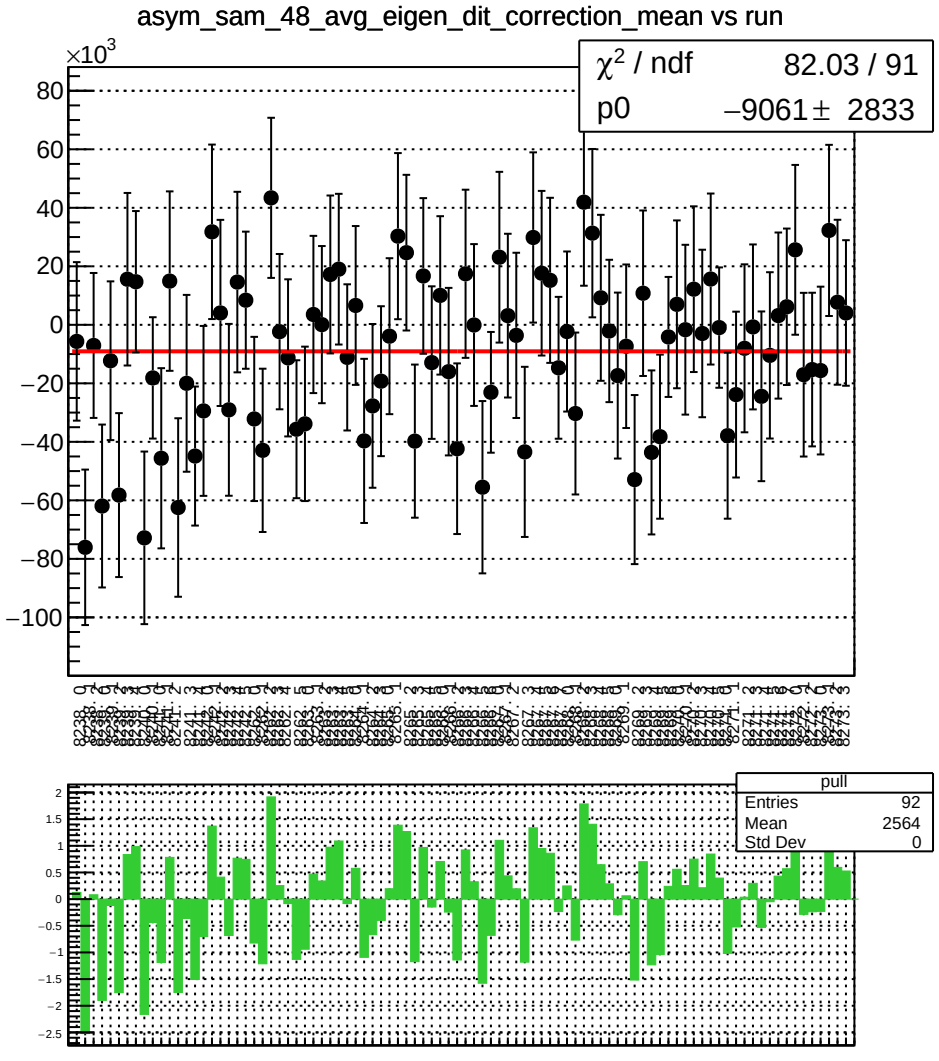

pull1D
Entries 92
Mean 0.002443
Std Dev 0.9443

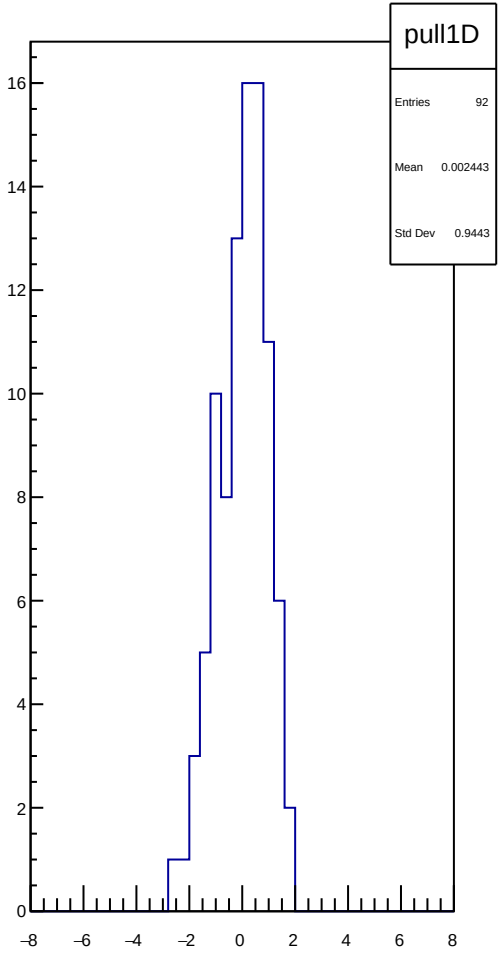

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 2664 / 91
p0 2672 ± 2.003
3100
3000
2900
2800
2700
2600
2500
2400

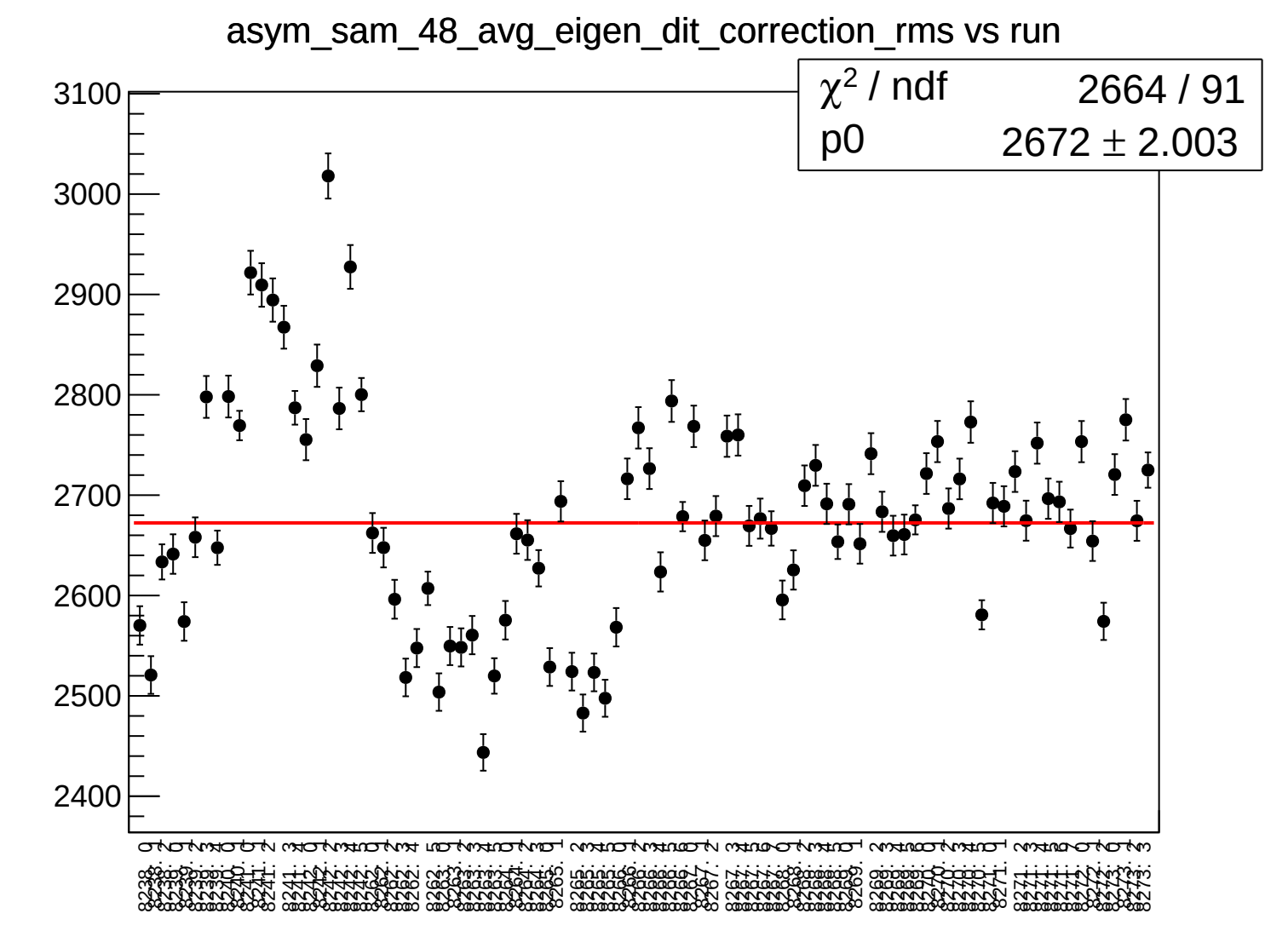

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 80.52 / 91
p0 −159.4 ± 209.2
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −172.3
Std Dev 0
2
1
0
−1
−2

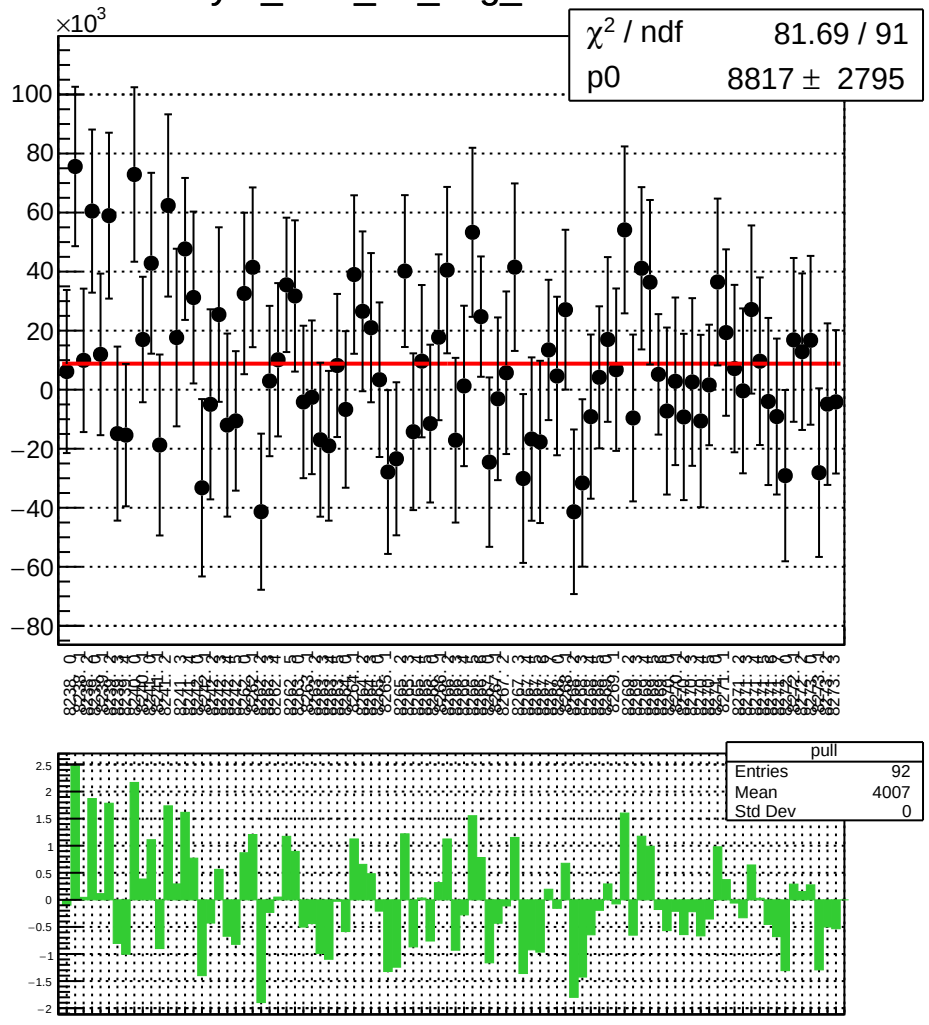

pull1D
Entries 92
Mean −0.008732
Std Dev 0.9355
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

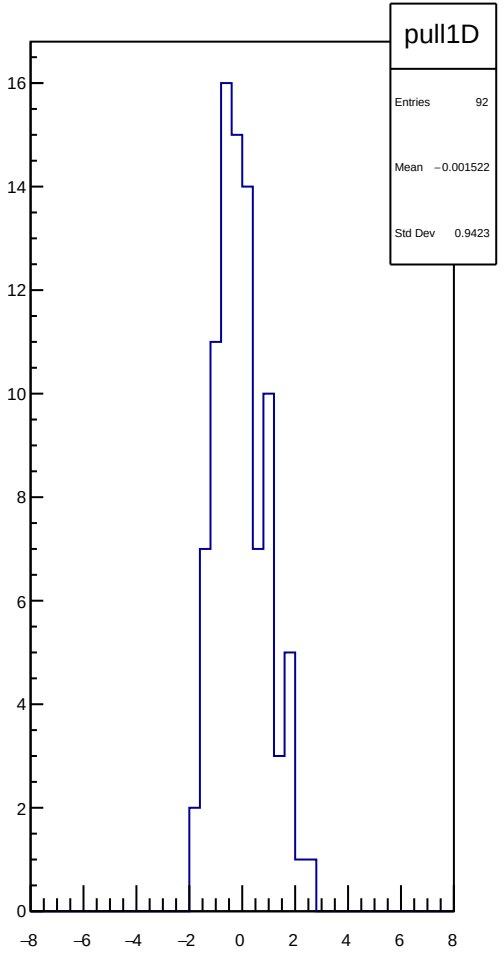

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 6062 / 91
p0 197.2 ± 0.1479
250
240
230
220
210
200
190
180

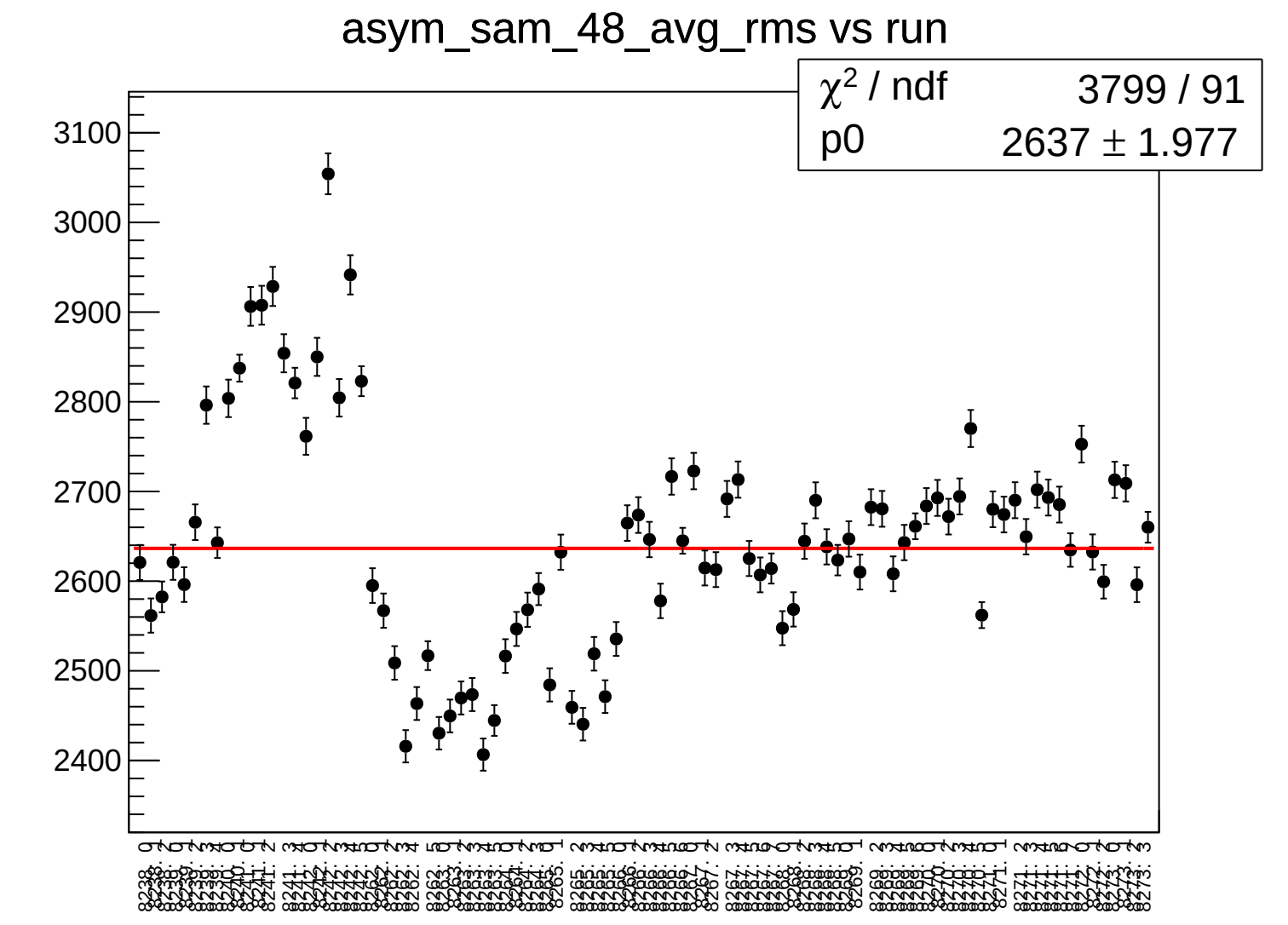

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.03 / 91
p0 −9061 ± 2833
pull
Entries 92
Mean 2564
Std Dev 0

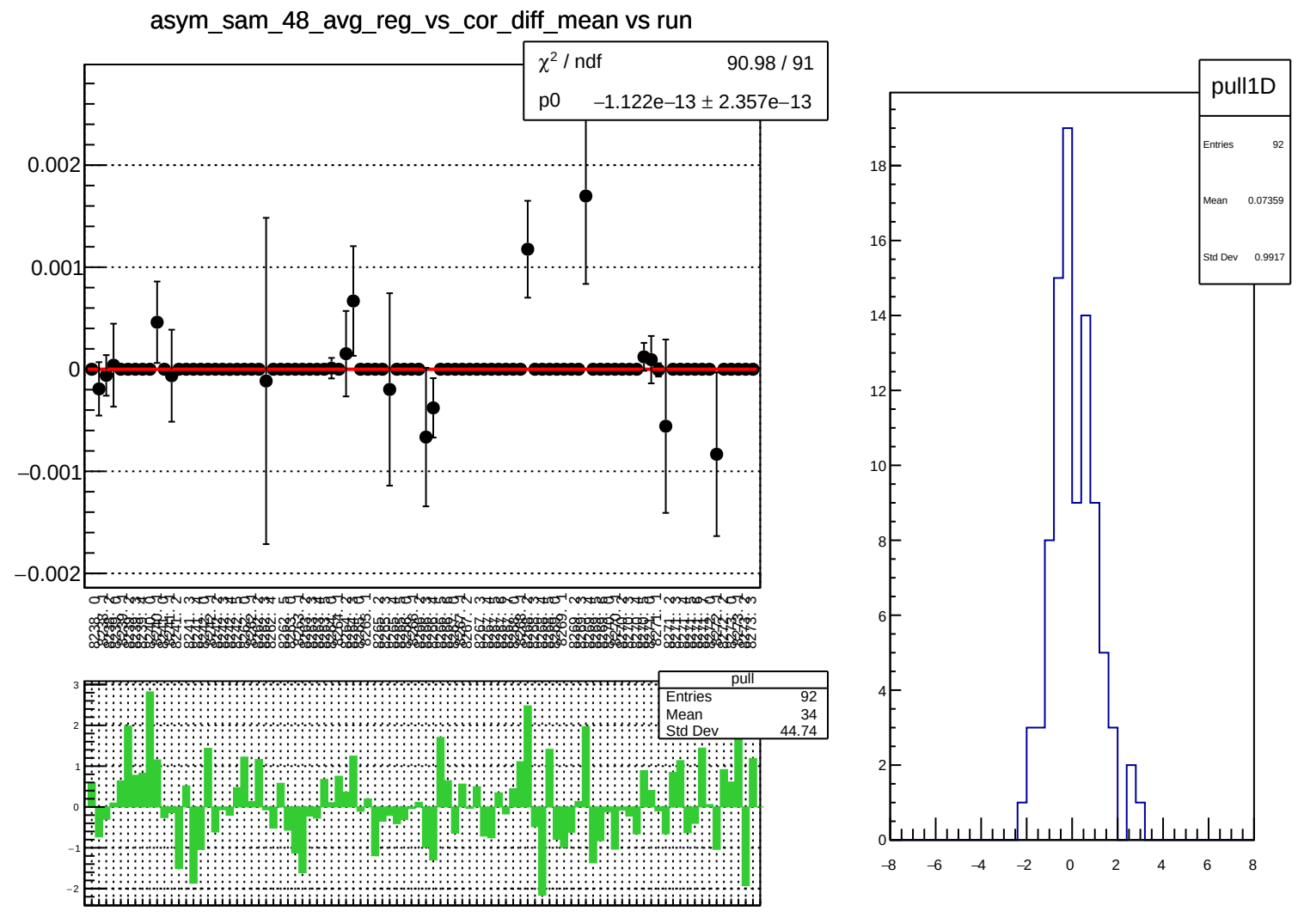

pull1D
Entries 92
Mean 0.002443
Std Dev 0.9443

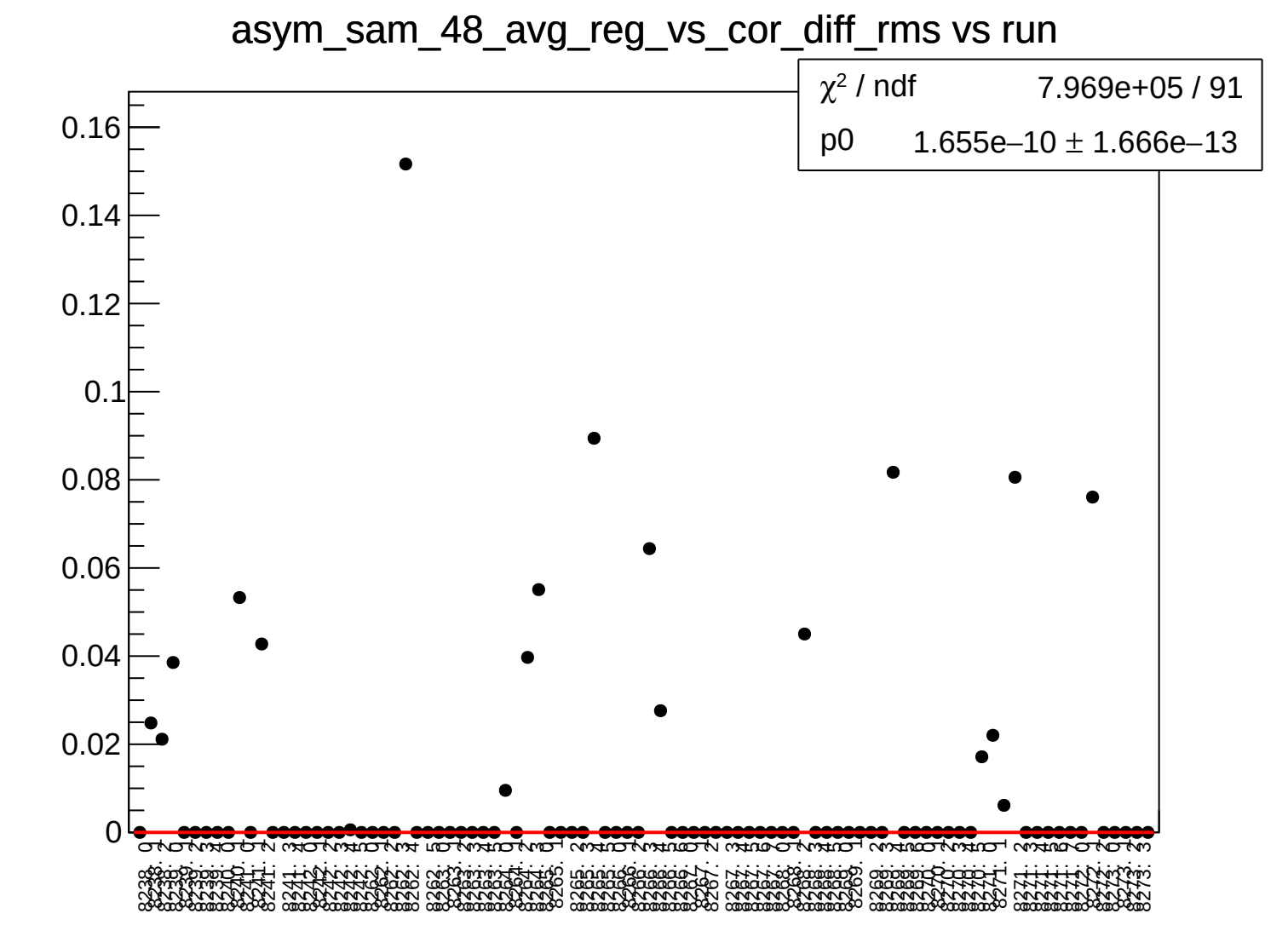

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 2664 / 91
p0 2672 ± 2.003
3100
3000
2900
2800
2700
2600
2500
2400

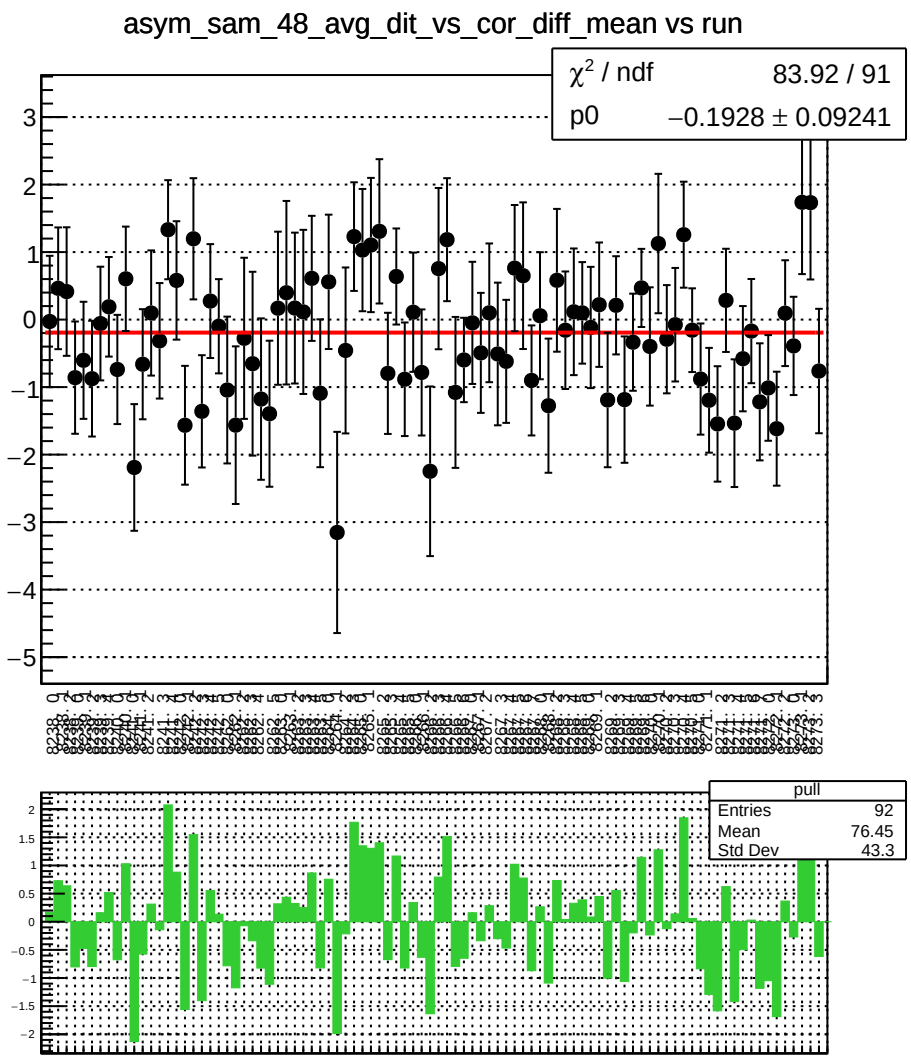

asym_sam_48_avg_mean vs run
×10^3
χ^2 / ndf 81.69 / 91
p0 8817 ± 2795
pull
Entries 92
Mean 4007
Std Dev 0

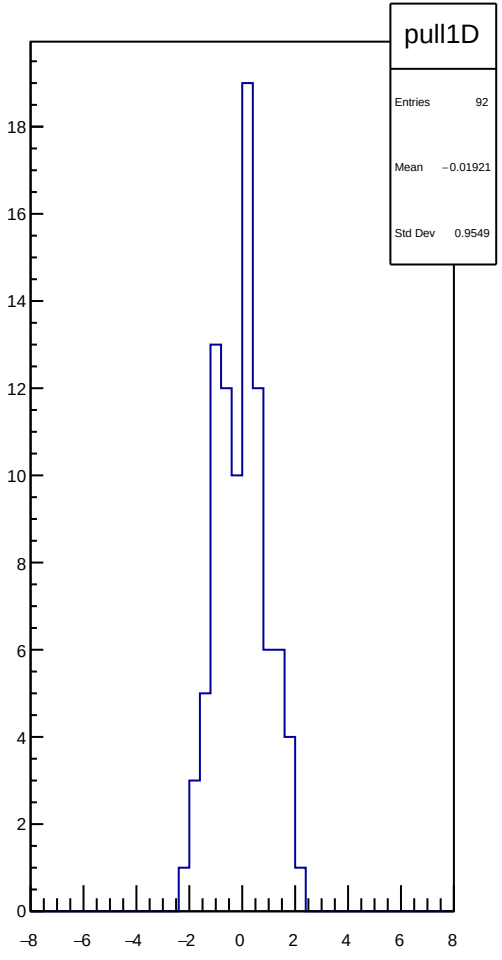

pull1D
Entries 92
Mean −0.001522
Std Dev 0.9423

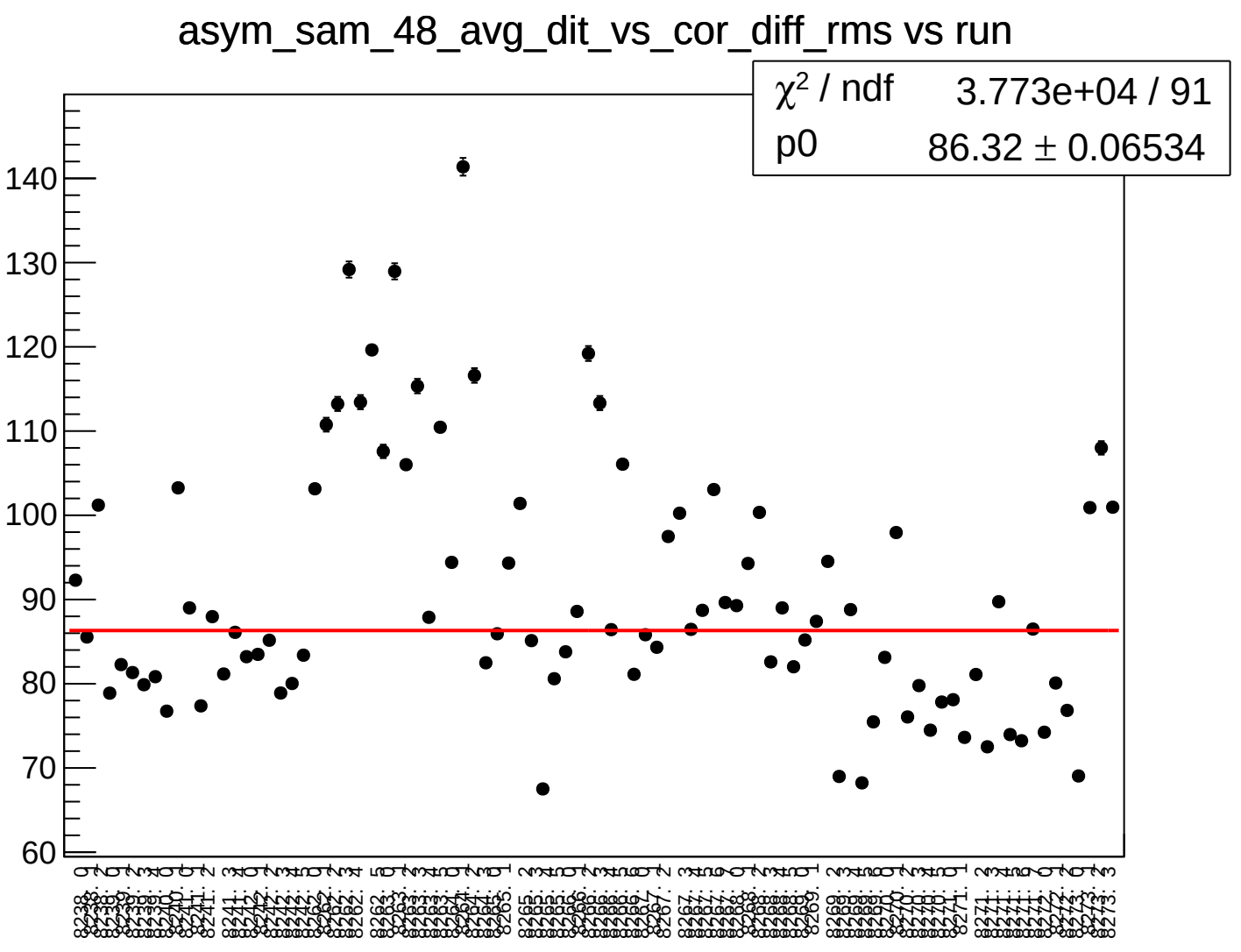

asym_sam_48_avg_rms vs run
$\chi^2$ / ndf 3799 / 91
p0 2637 ± 1.977
3100
3000
2900
2800
2700
2600
2500
2400

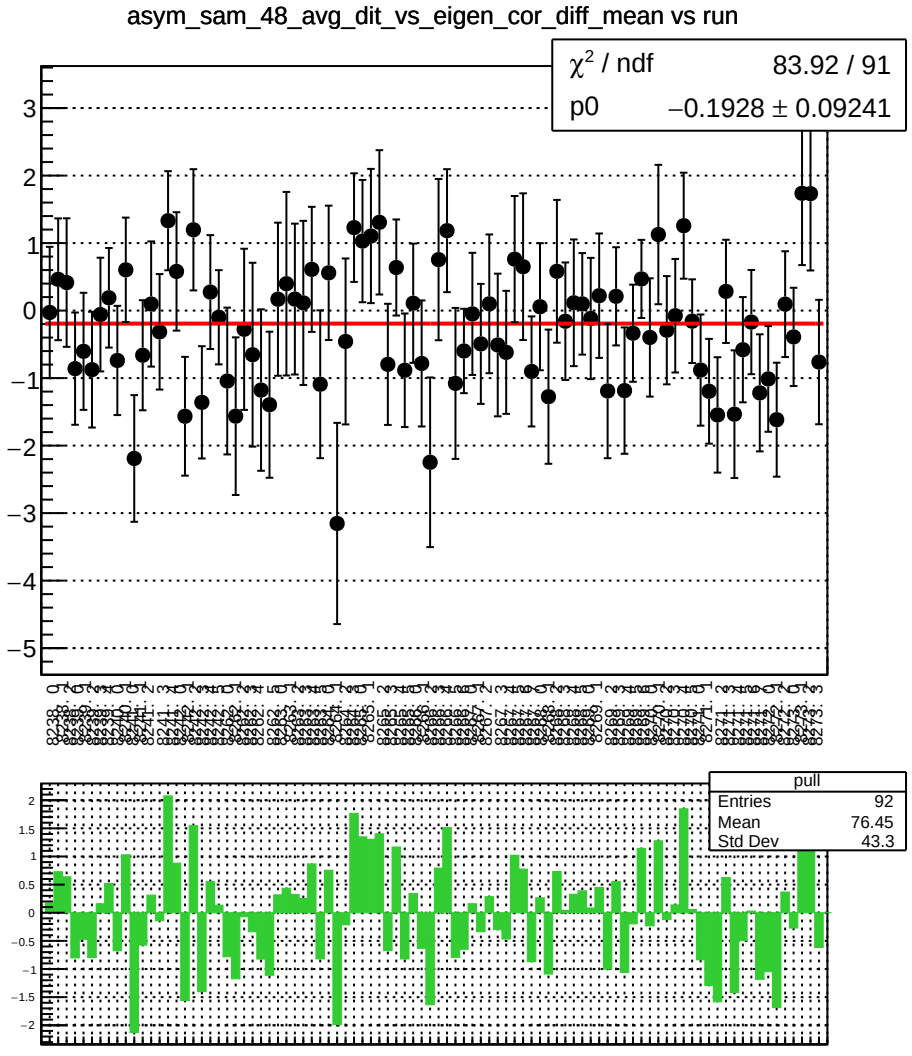

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.98 / 91
p0 −1.122e−13 ± 2.357e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 92
Mean 34
Std Dev 44.74
pull1D
Entries 92
Mean 0.07359
Std Dev 0.9917

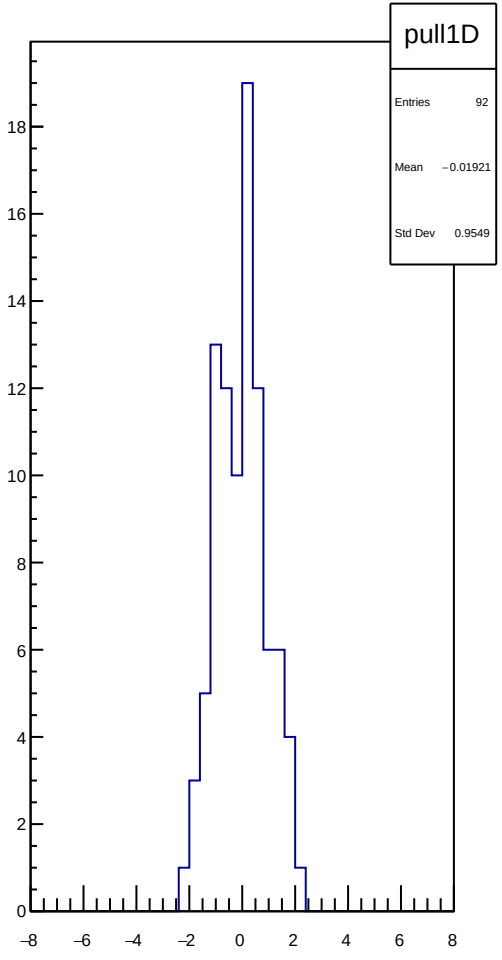

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.969e+05 / 91
p0 1.655e−10 ± 1.666e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

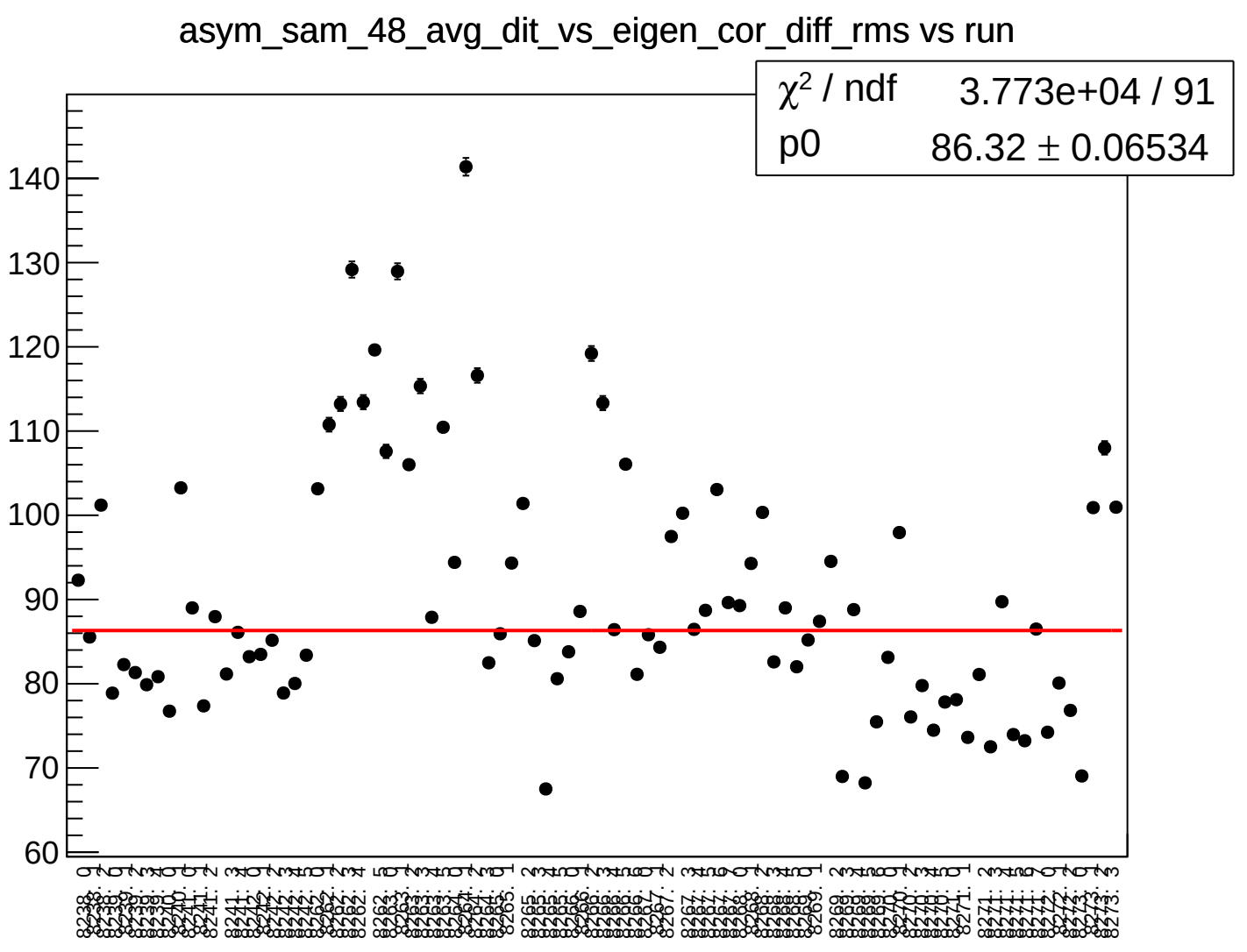

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.92 / 91
p0 −0.1928 ± 0.09241
pull
Entries 92
Mean 76.45
Std Dev 43.3

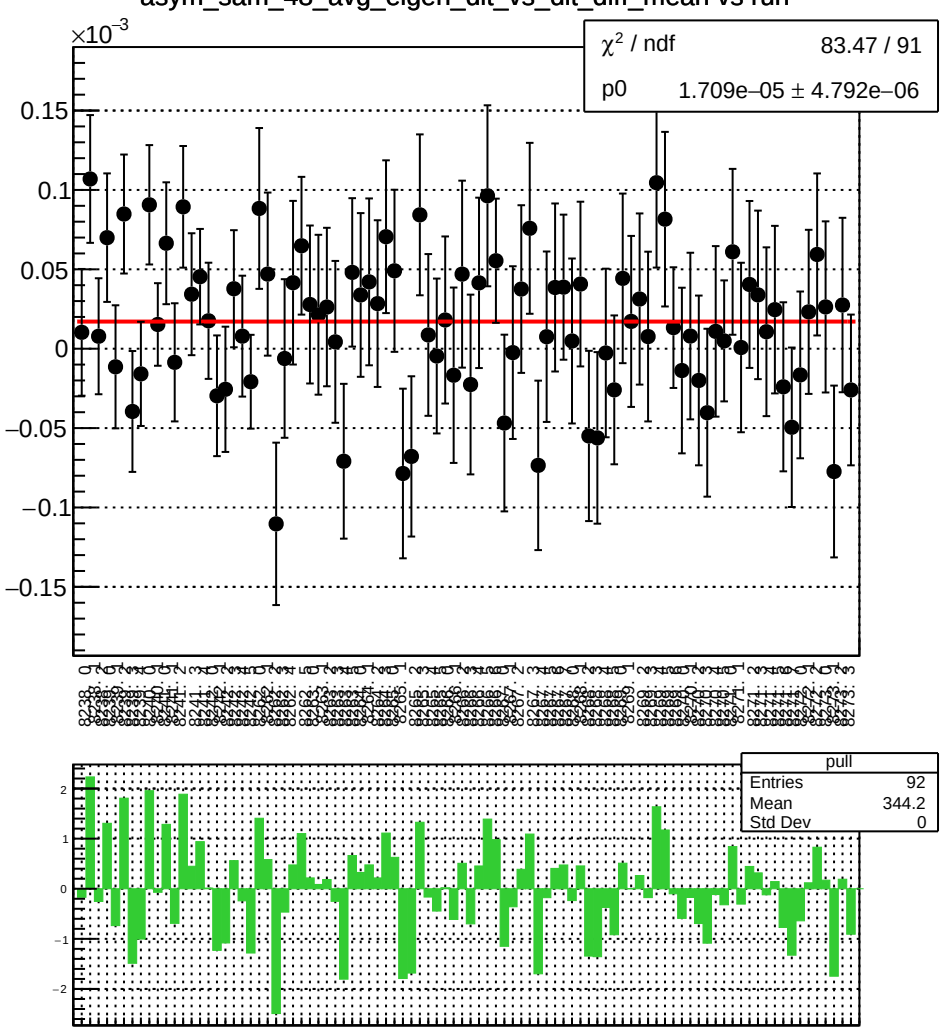

pull1D
Entries 92
Mean −0.01921
Std Dev 0.9549

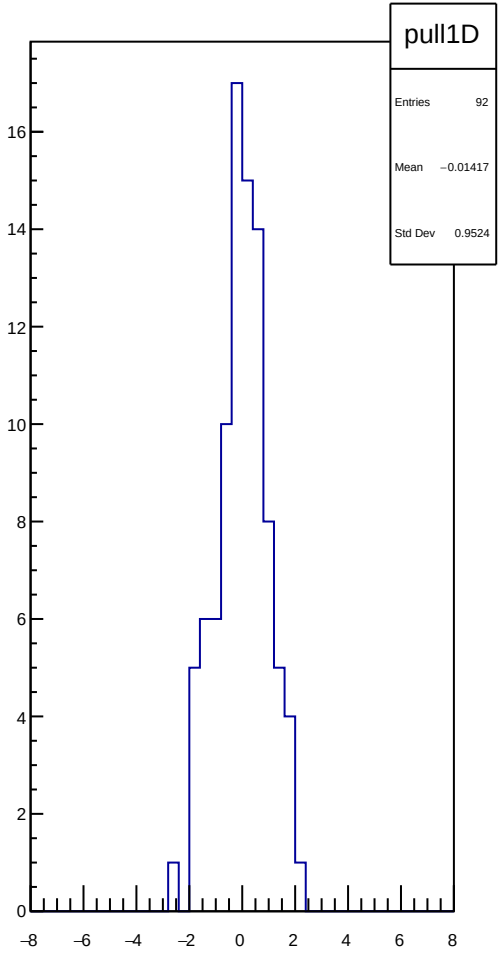

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.773e+04 / 91
p0 86.32 ± 0.06534
140
130
120
110
100
90
80
70
60

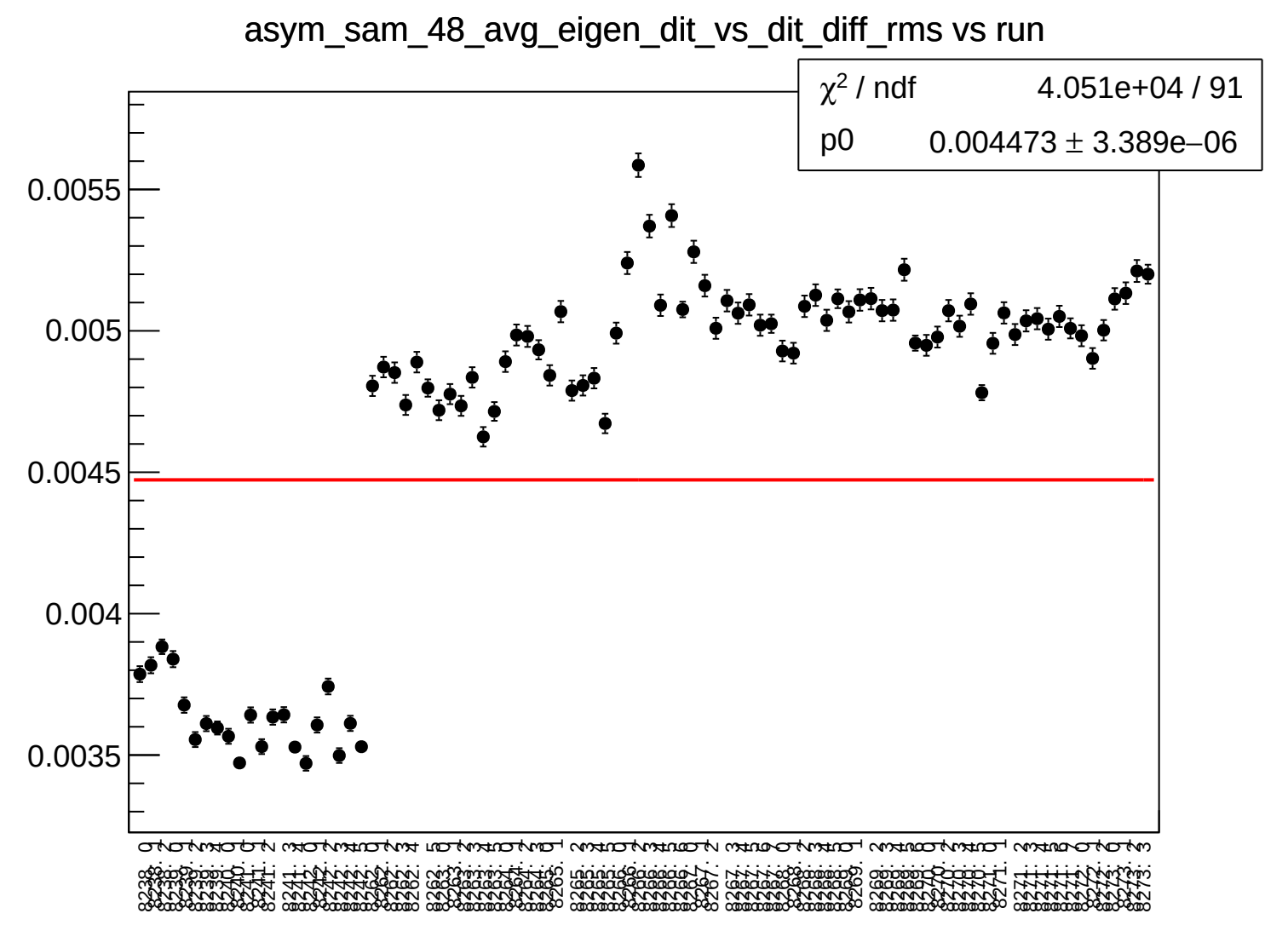

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.92 / 91
p0 −0.1928 ± 0.09241
pull
Entries 92
Mean 76.45
Std Dev 43.3

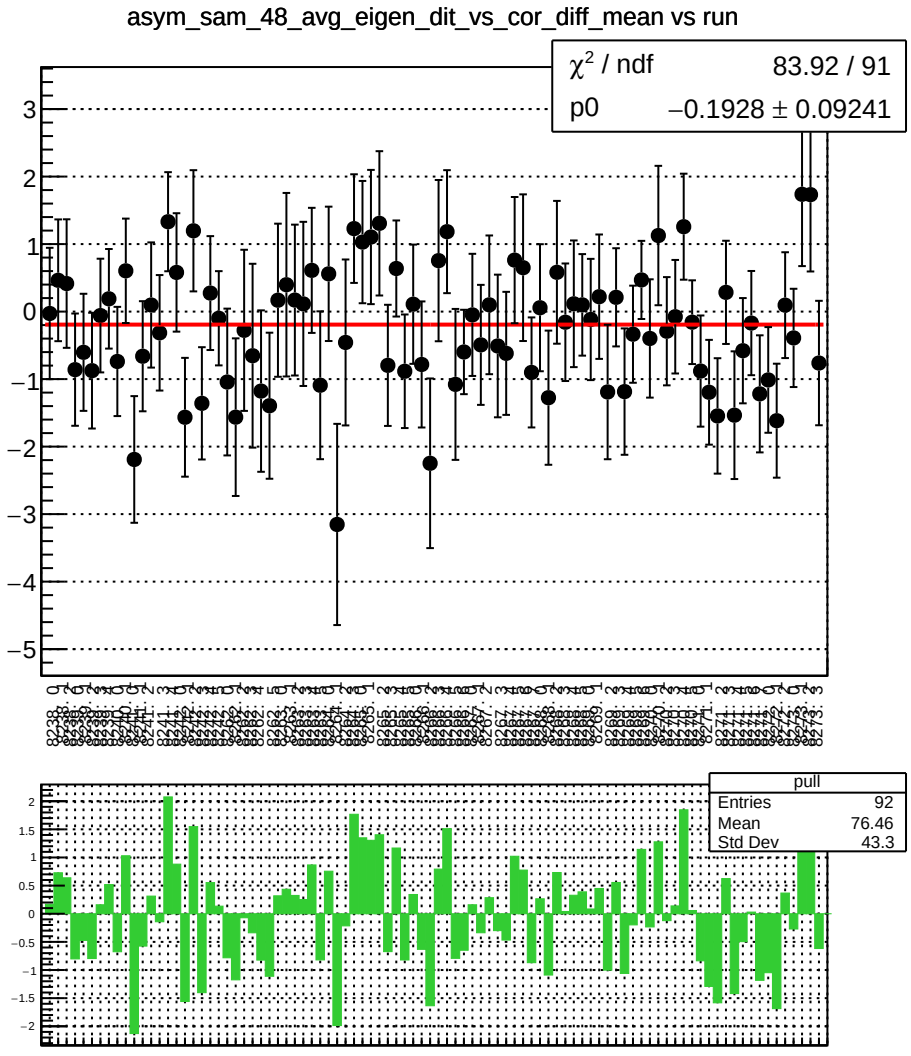

pull1D
Entries 92
Mean −0.01921
Std Dev 0.9549

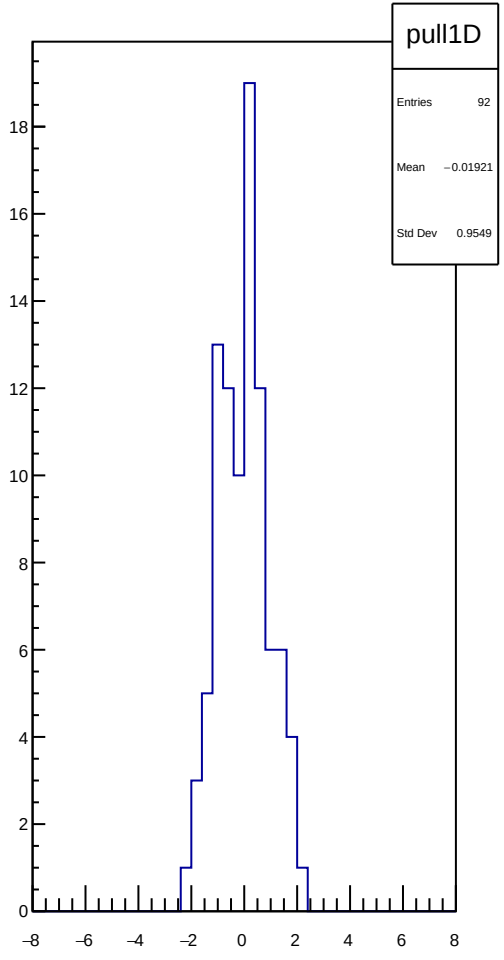

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.773e+04 / 91
p0 86.32 ± 0.06534
140
130
120
110
100
90
80
70
60

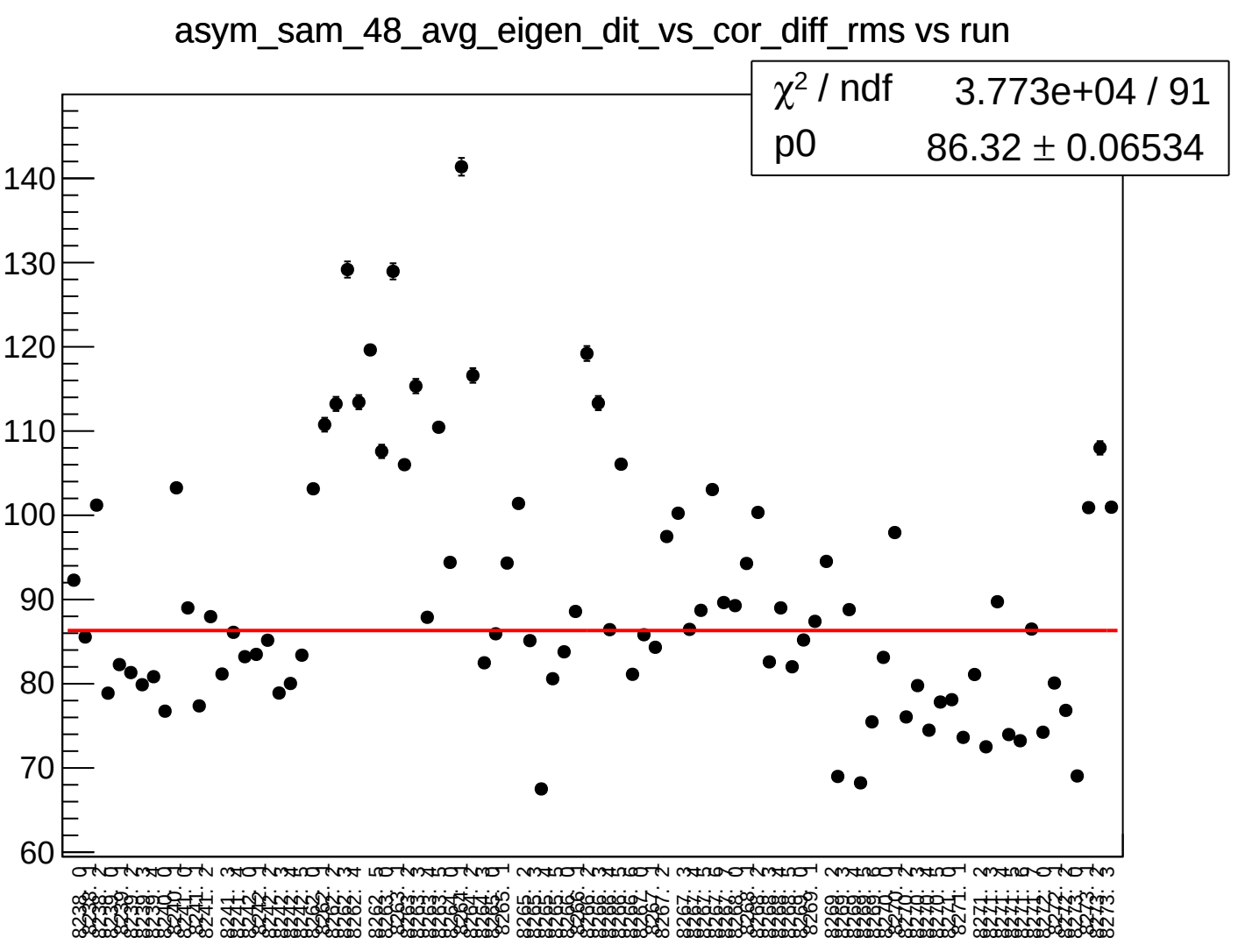

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.47 / 91
p0 1.709e−05 ± 4.792e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean 344.2
Std Dev 0
2
1
0
−1
−2

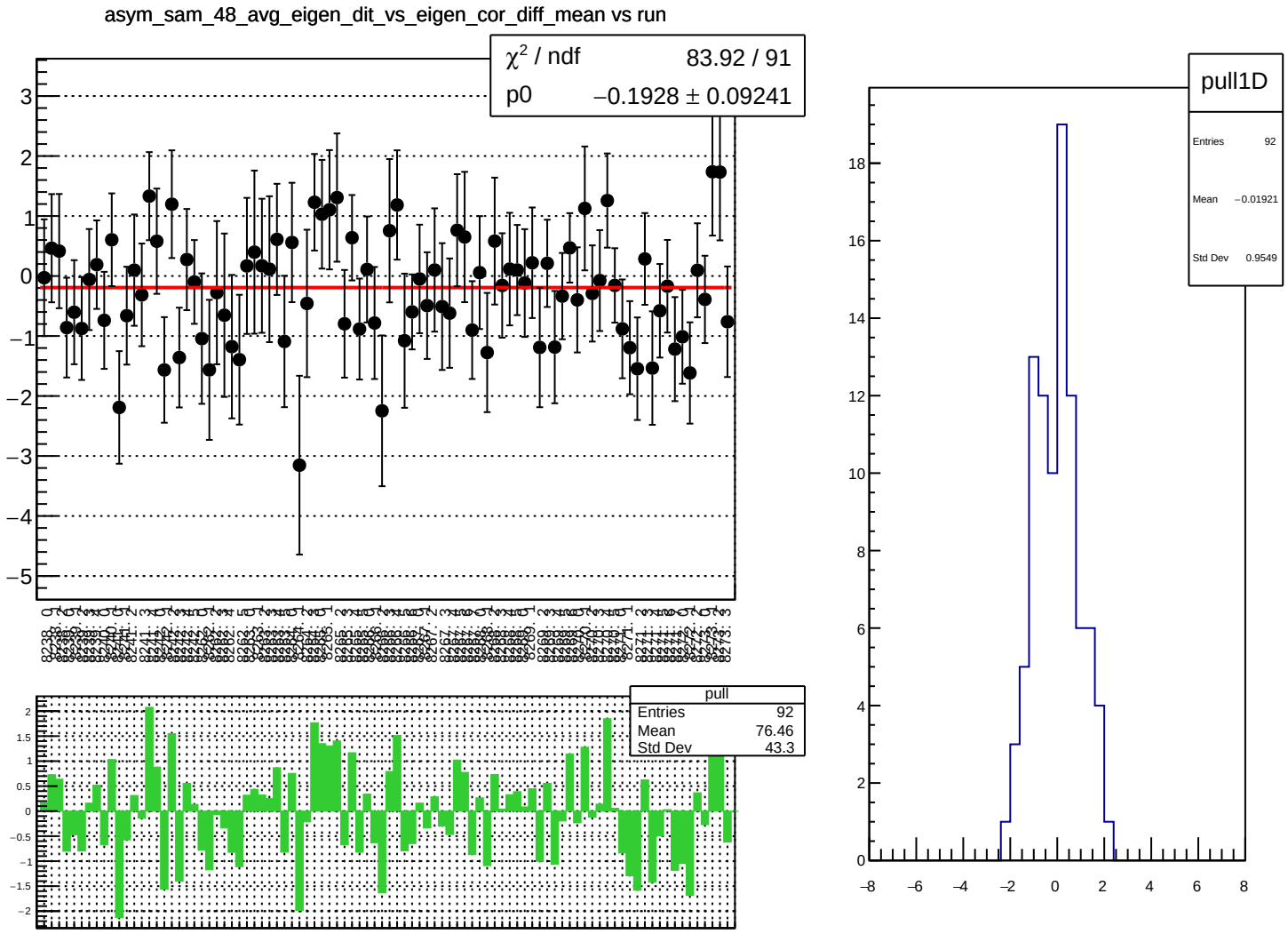

pull1D
Entries 92
Mean −0.01417
Std Dev 0.9524
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

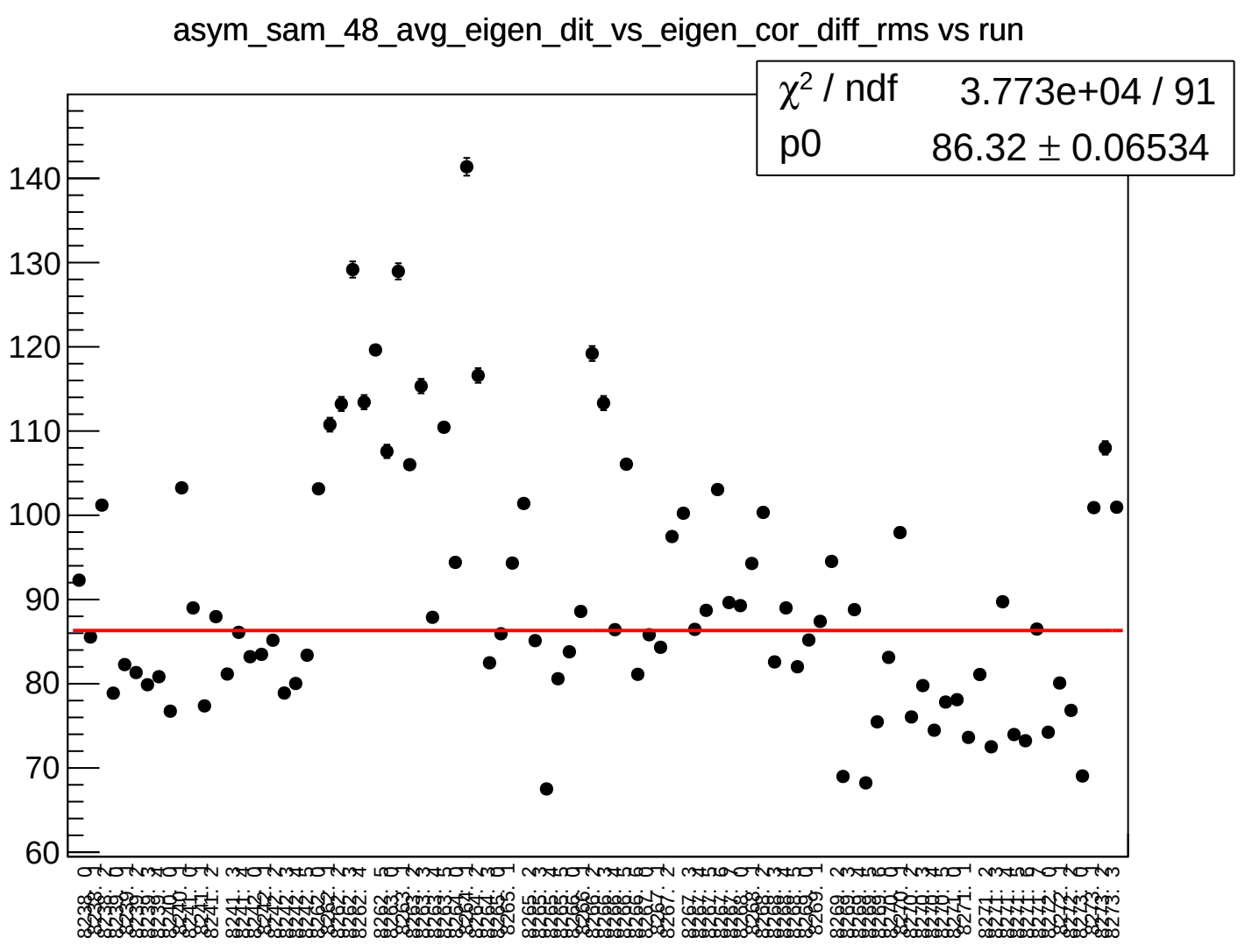

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.051e+04 / 91
p0 0.004473 ± 3.389e−06
0.0055
0.005
0.0045
0.004
0.0035

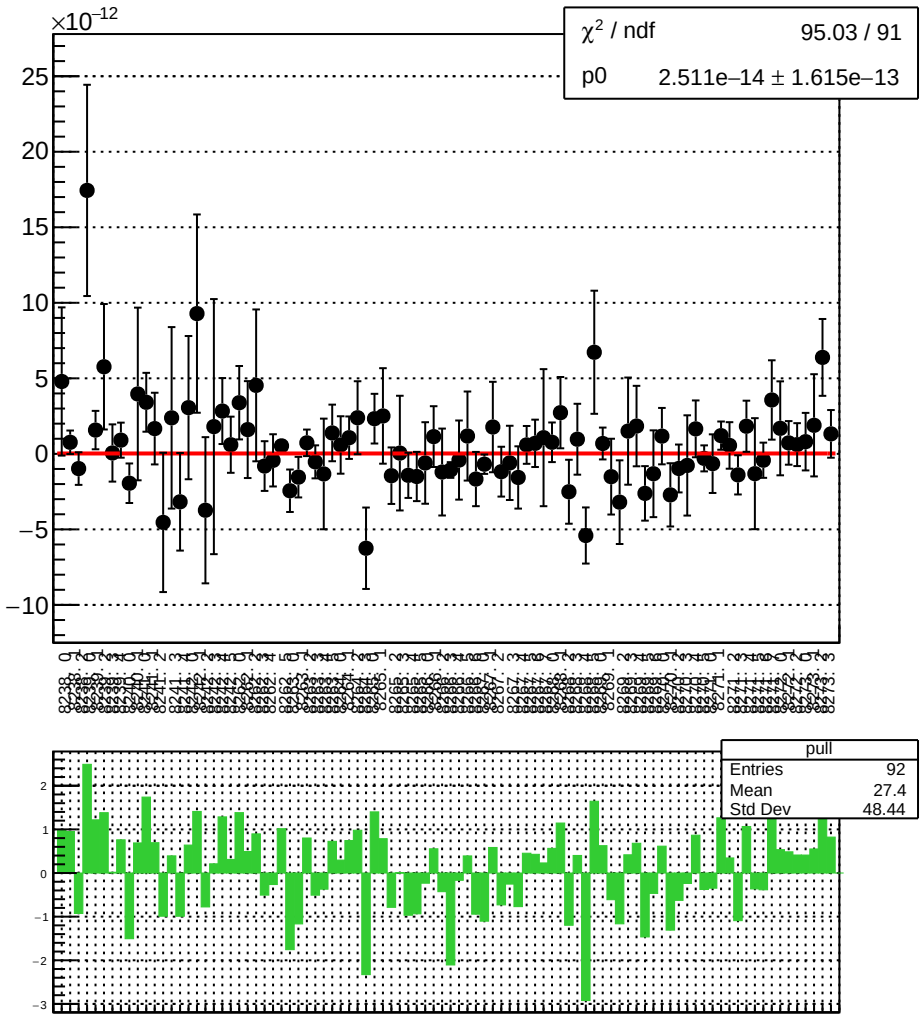

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.92 / 91
p0 −0.1928 ± 0.09241
pull
Entries 92
Mean 76.46
Std Dev 43.3

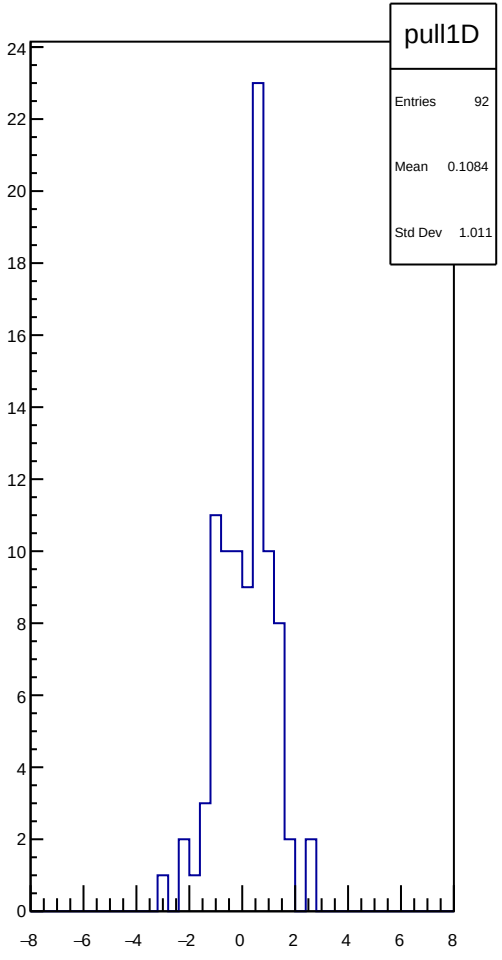

pull1D
Entries 92
Mean −0.01921
Std Dev 0.9549

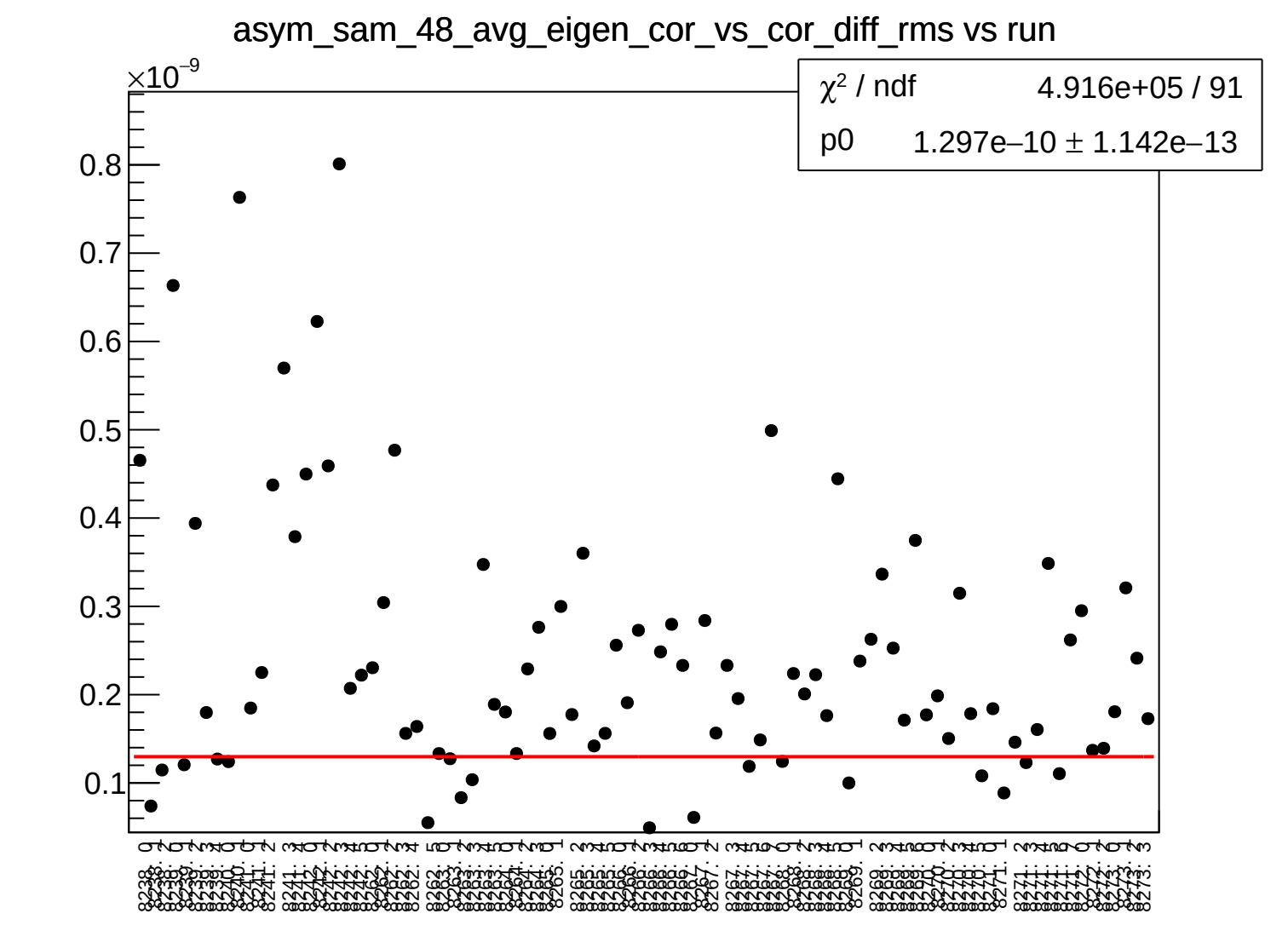

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.773e+04 / 91
p0 86.32 ± 0.06534
140
130
120
110
100
90
80
70
60

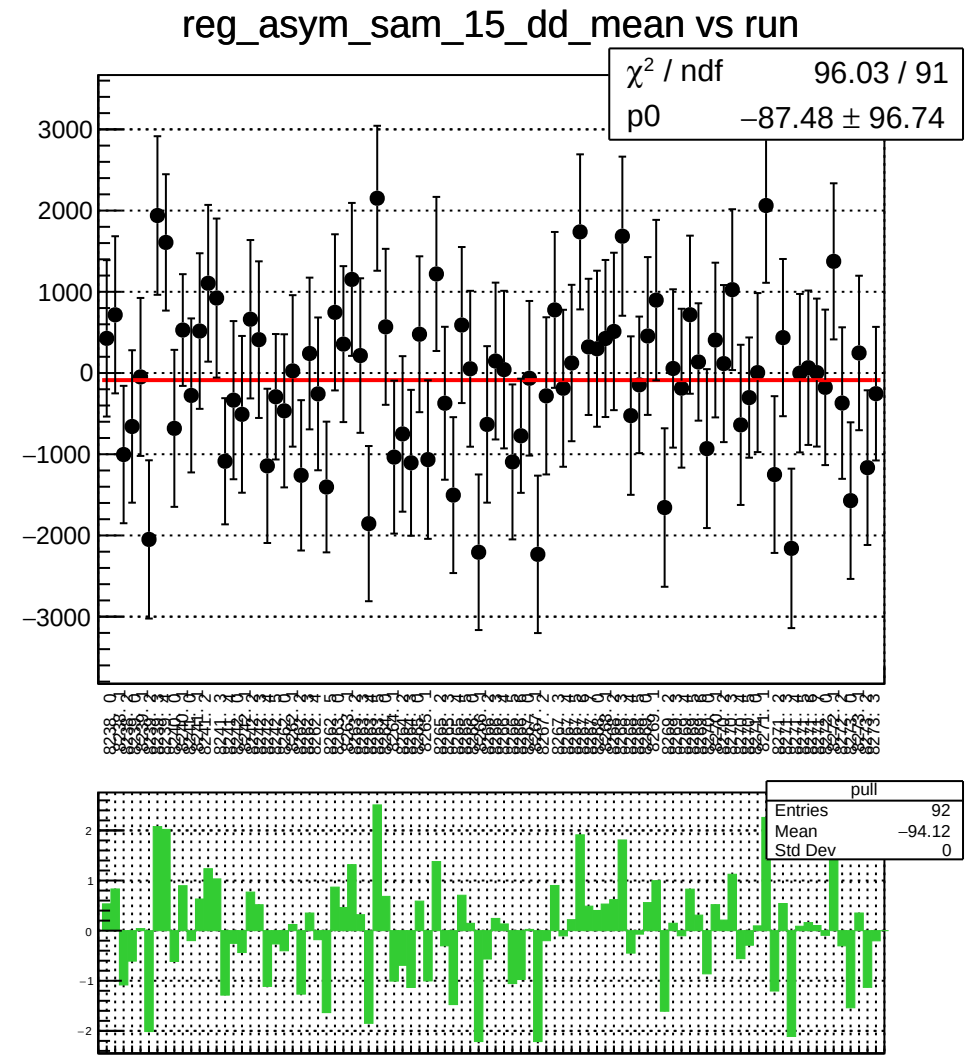

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.92 / 91
p0 −0.1928 ± 0.09241
pull
Entries 92
Mean 76.46
Std Dev 43.3
pull1D
Entries 92
Mean −0.01921
Std Dev 0.9549

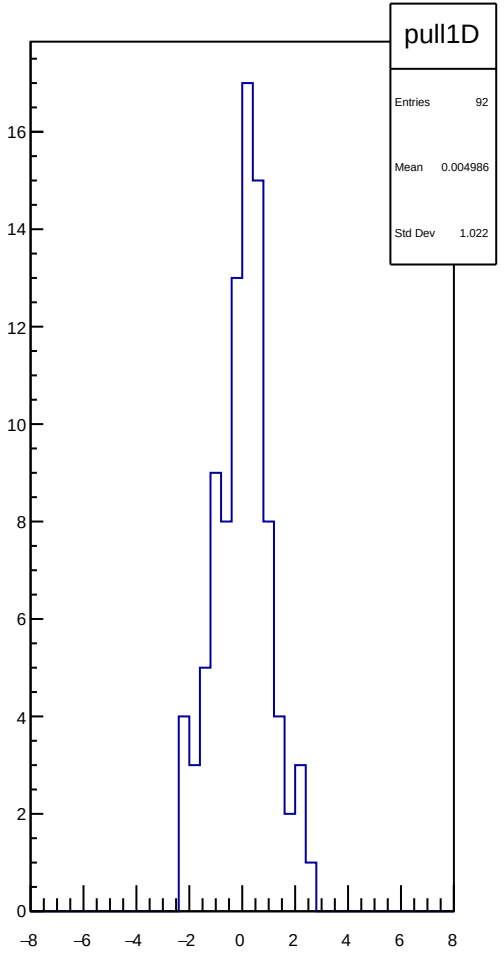

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.773e+04 / 91
p0 86.32 ± 0.06534
140
130
120
110
100
90
80
70
60

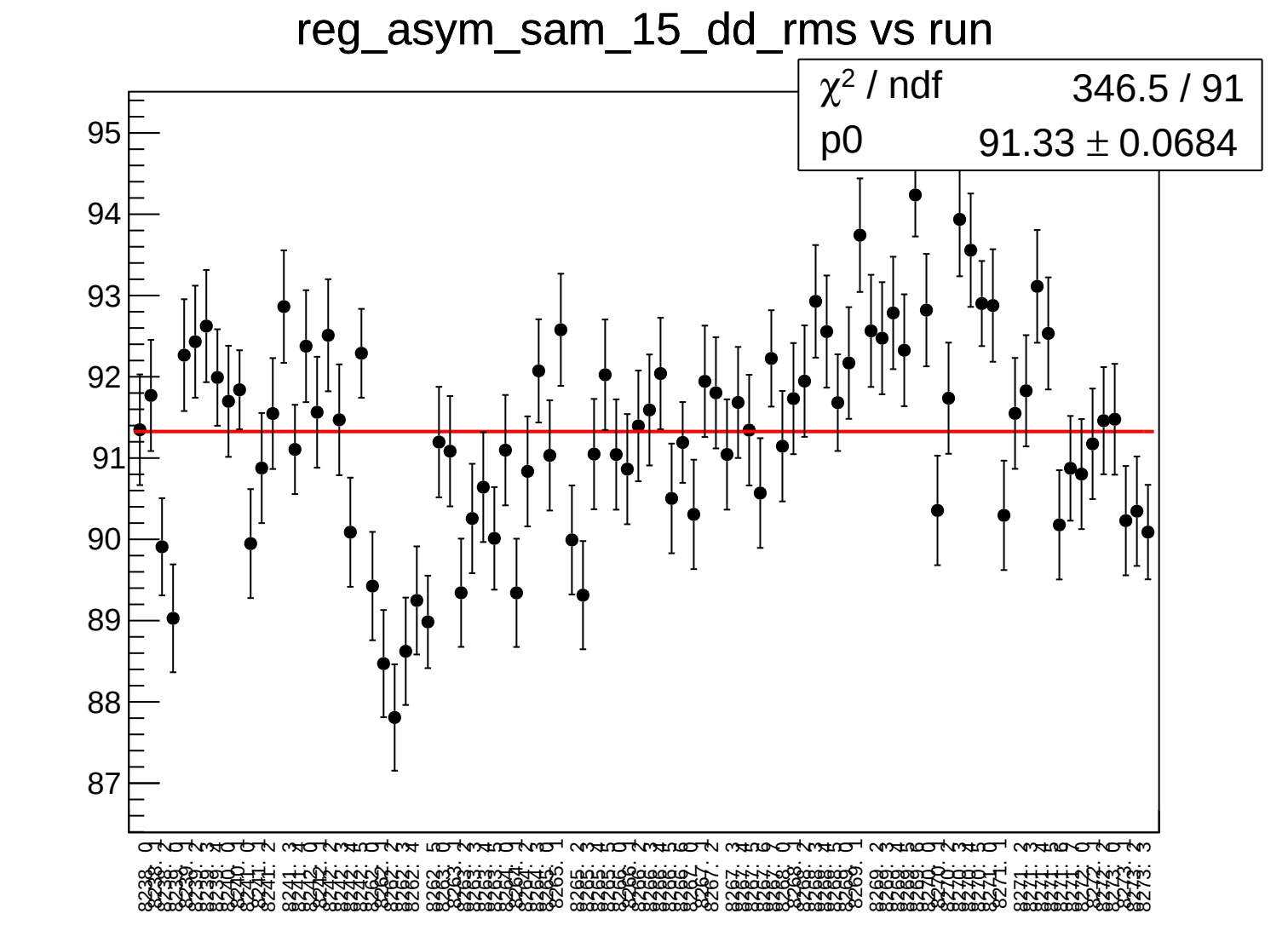

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.03 / 91
p0 2.511e−14 ± 1.615e−13
pull
Entries 92
Mean 27.4
Std Dev 48.44

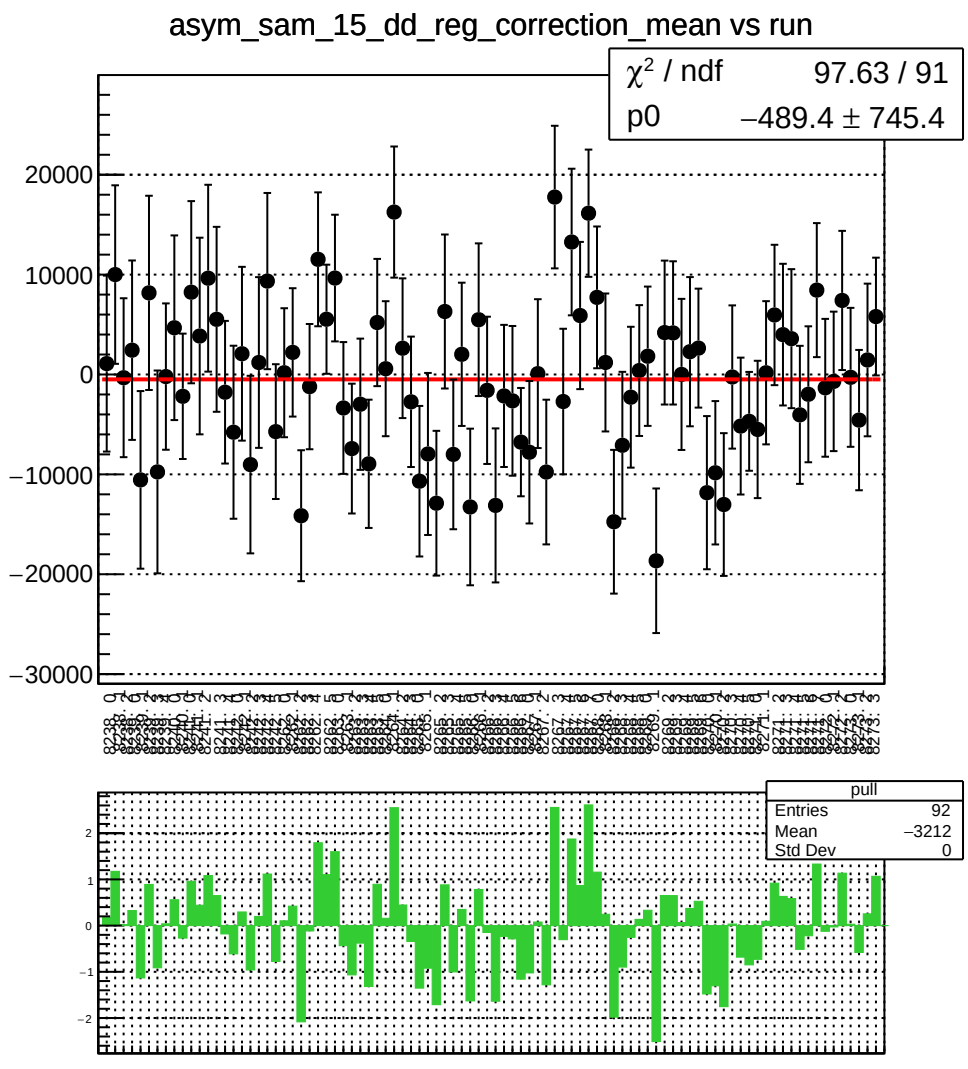

pull1D
Entries 92
Mean 0.1084
Std Dev 1.011

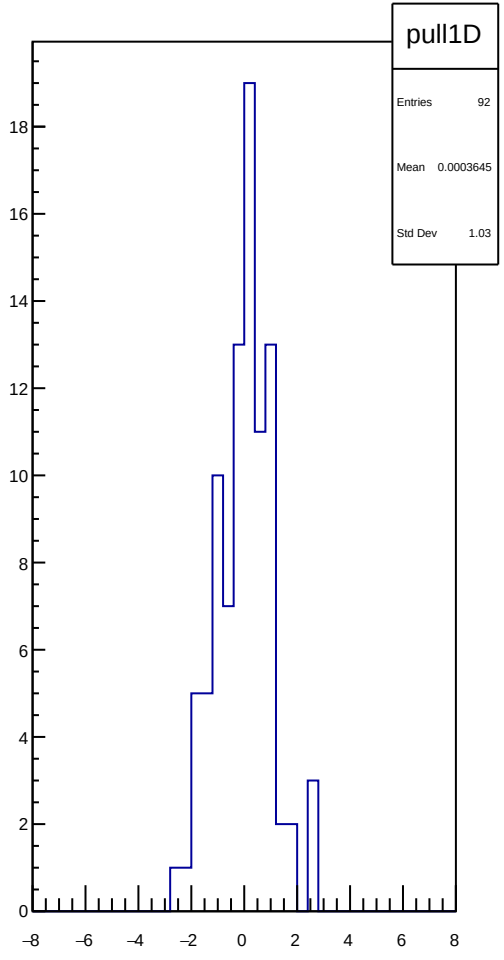

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.916e+05 / 91
p0 1.297e−10 ± 1.142e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

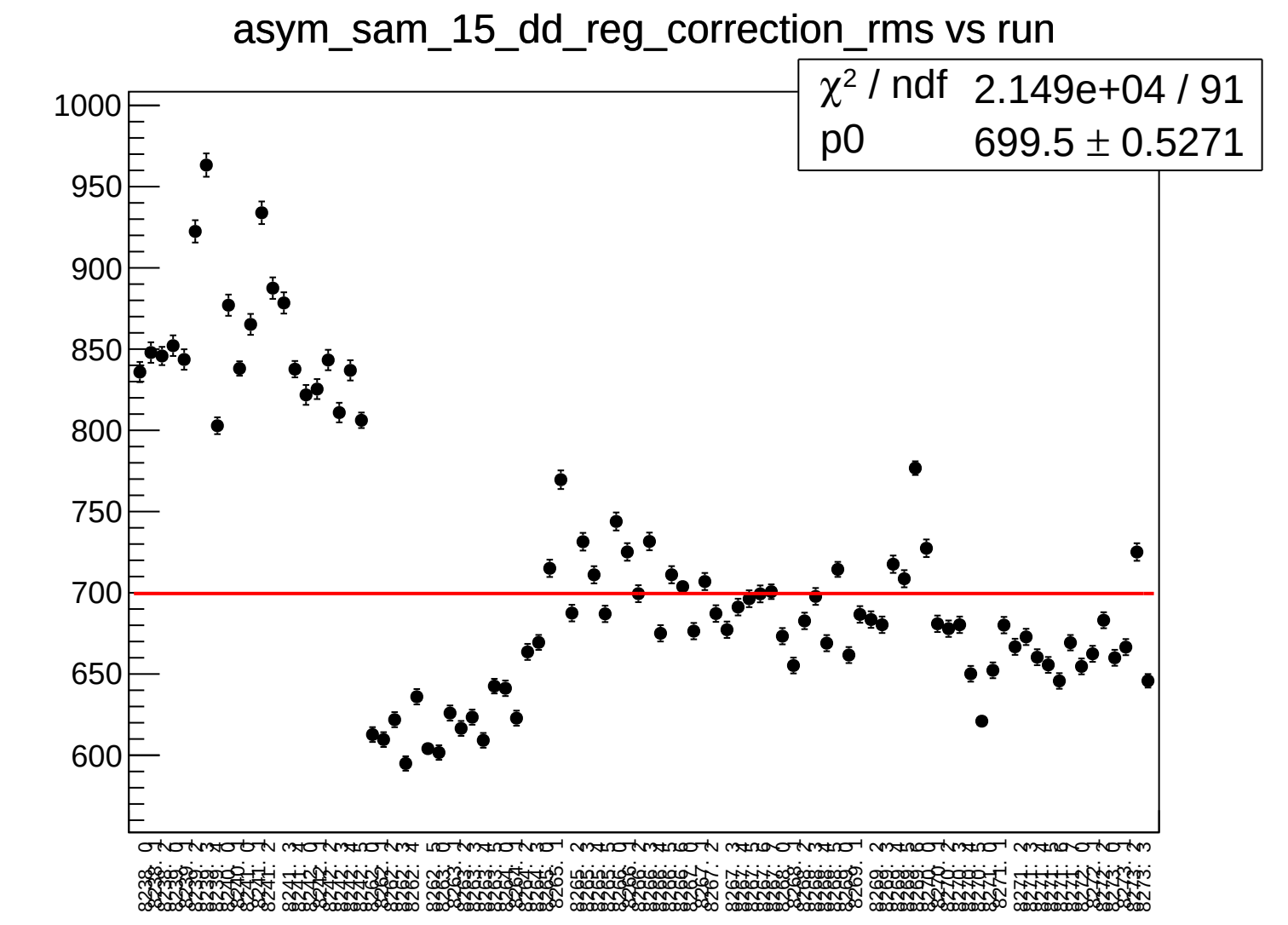

reg_asym_sam_15_dd_mean vs run
χ² / ndf 96.03 / 91
p0 −87.48 ± 96.74
pull
Entries 92
Mean −94.12
Std Dev 0

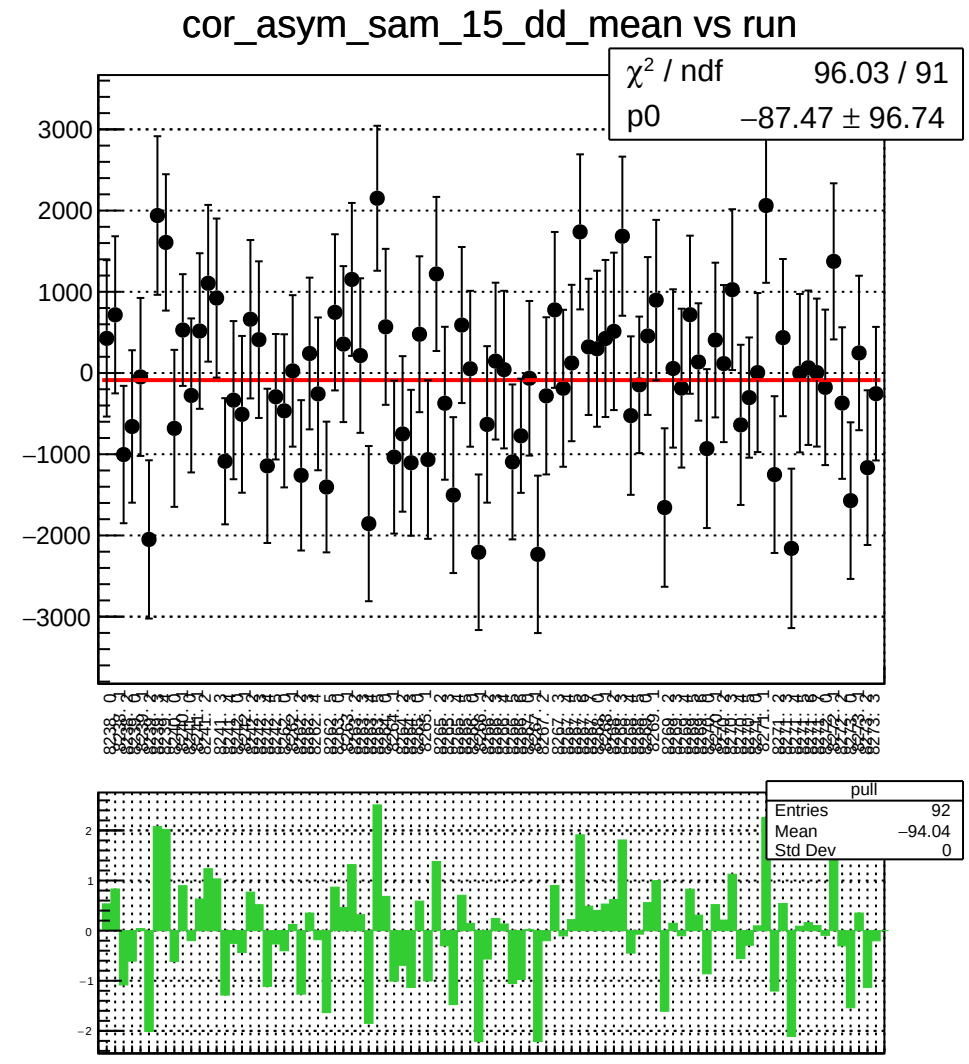

pull1D
Entries 92
Mean 0.004986
Std Dev 1.022

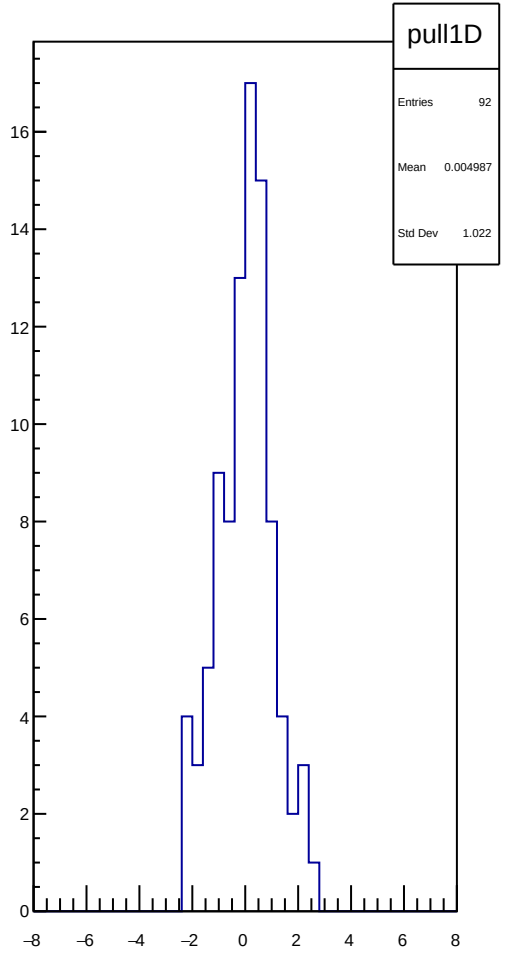

reg_asym_sam_15_dd_rms vs run
$\chi^2$ / ndf 346.5 / 91
p0 91.33 ± 0.0684
95
94
93
92
91
90
89
88
87

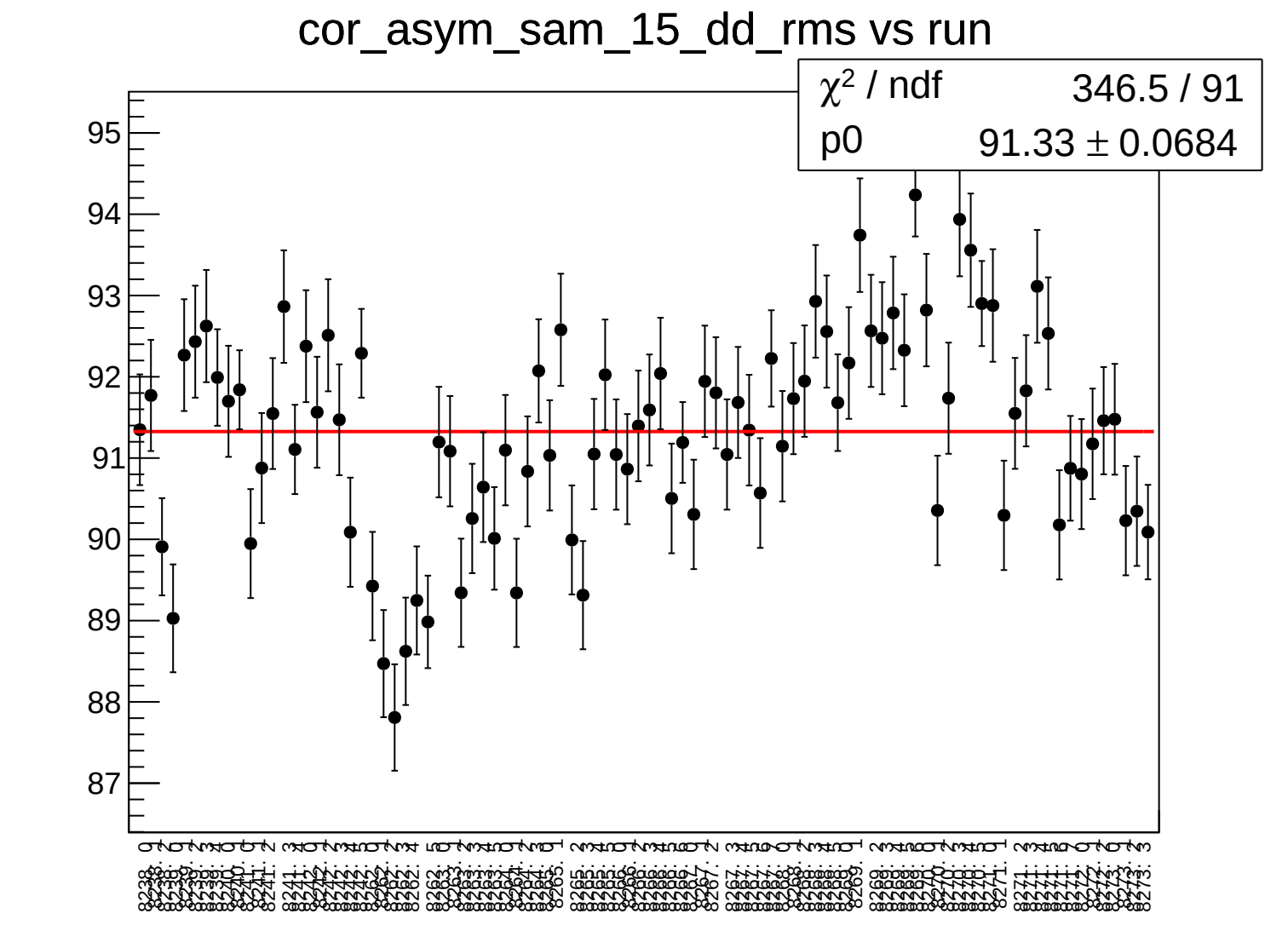

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 97.63 / 91
p0 −489.4 ± 745.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −3212
Std Dev 0
2
1
0
−1
−2

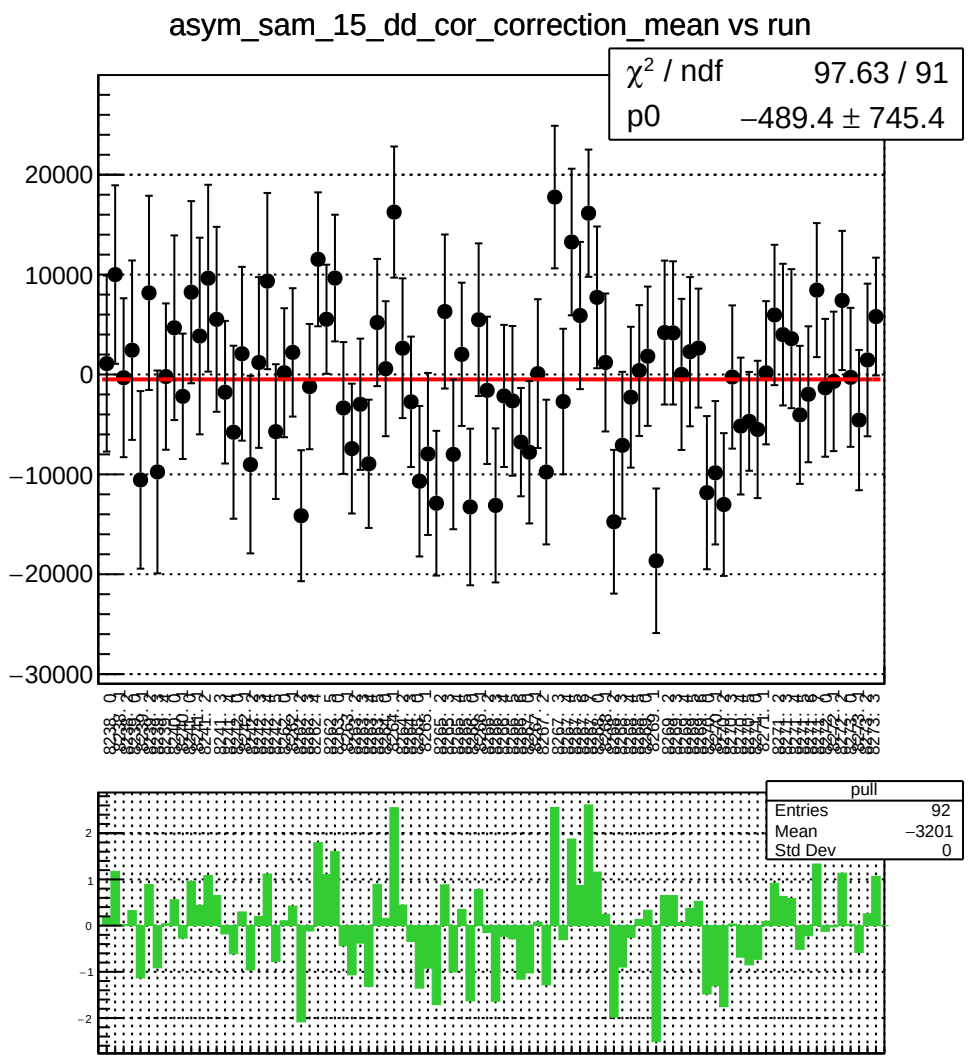

pull1D
Entries 92
Mean 0.0003645
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

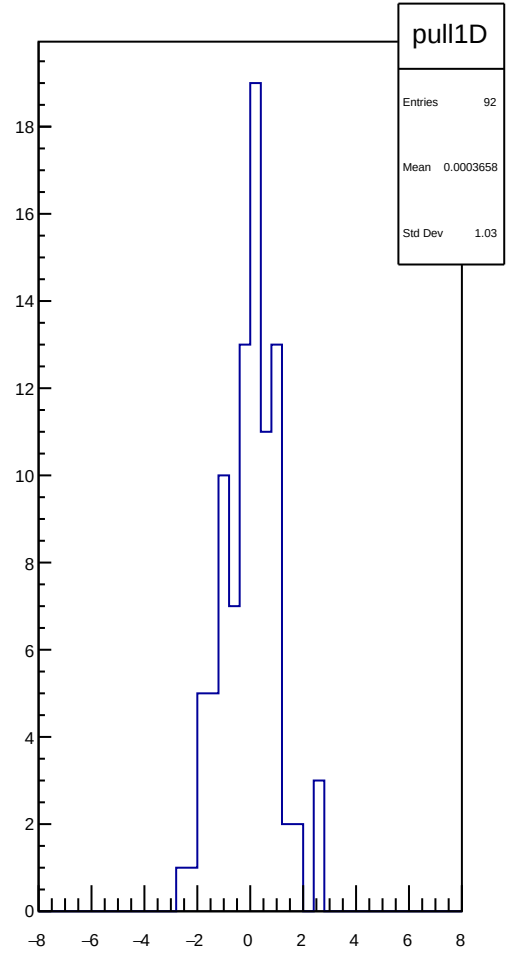

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 2.149e+04 / 91
p0 699.5 ± 0.5271
1000
950
900
850
800
750
700
650
600

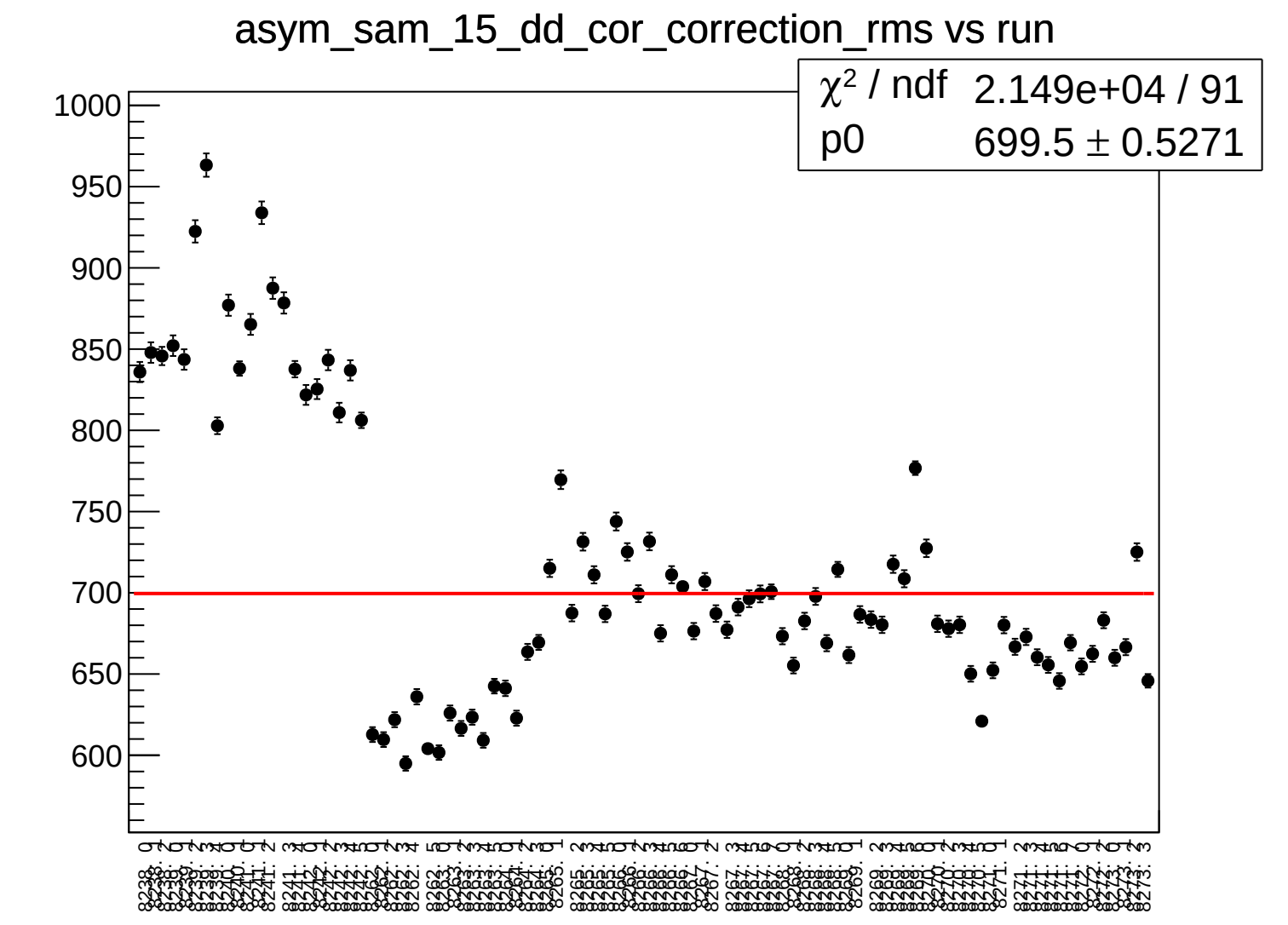

cor_asym_sam_15_dd_mean vs run
χ² / ndf 96.03 / 91
p0 −87.47 ± 96.74
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −94.04
Std Dev 0
2
1
0
−1
−2

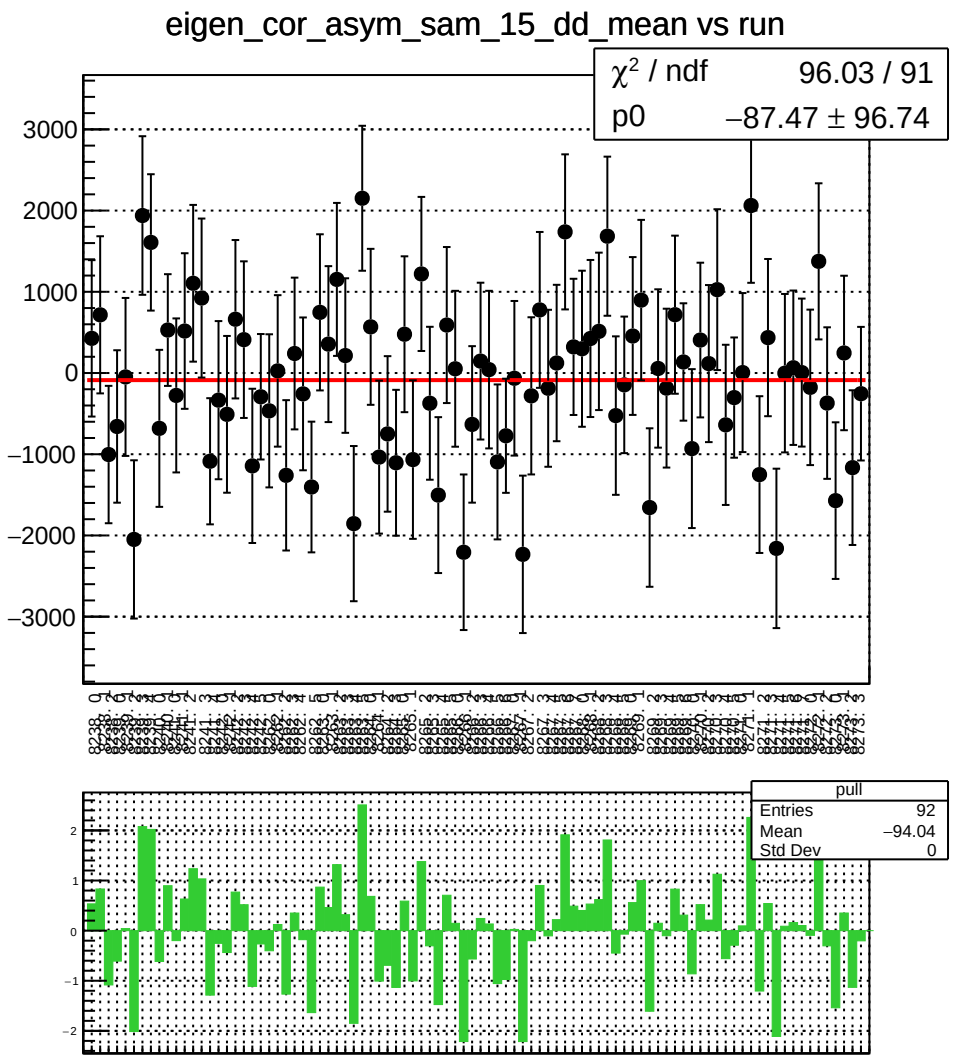

pull1D
Entries 92
Mean 0.004987
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

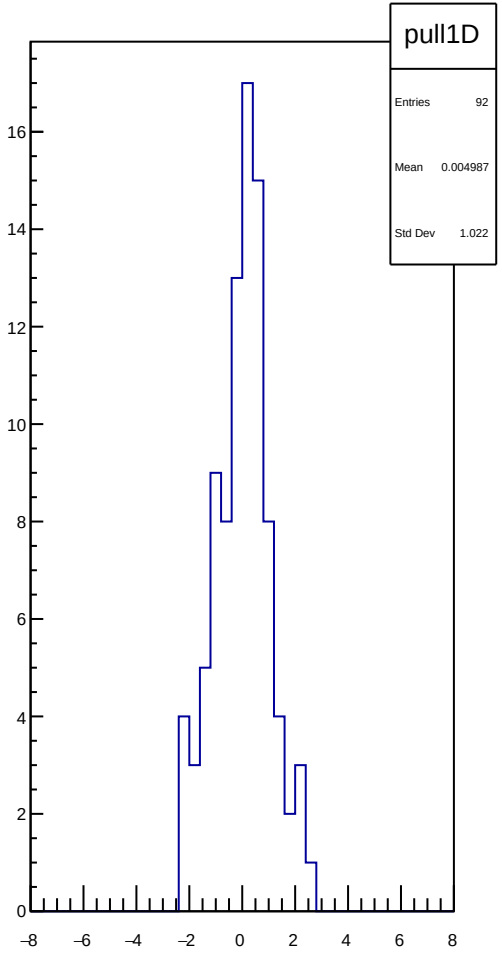

cor_asym_sam_15_dd_rms vs run
$\chi^2$ / ndf 346.5 / 91
p0 91.33 ± 0.0684
95
94
93
92
91
90
89
88
87

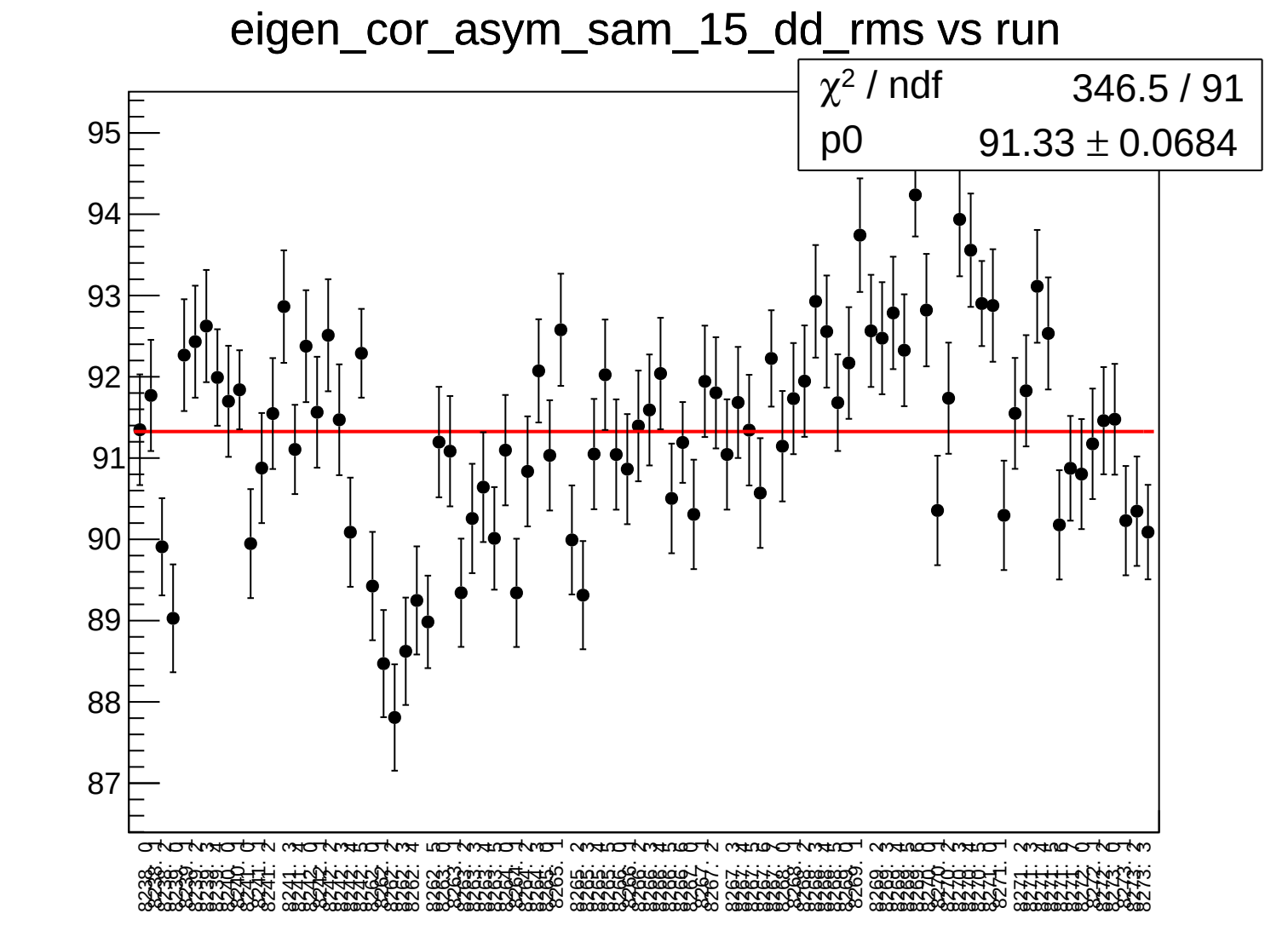

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 97.63 / 91
p0 −489.4 ± 745.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −3201
Std Dev 0
2
1
0
−1
−2

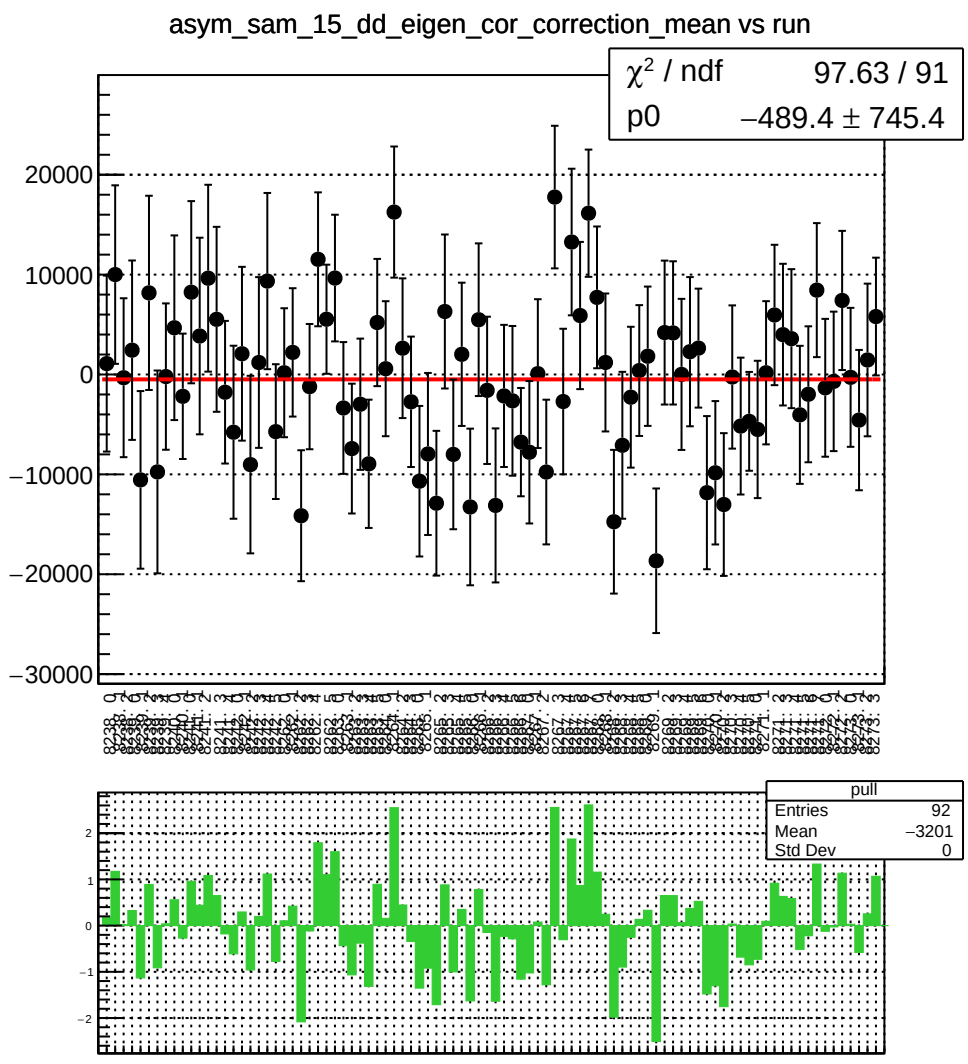

pull1D
Entries 92
Mean 0.0003658
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

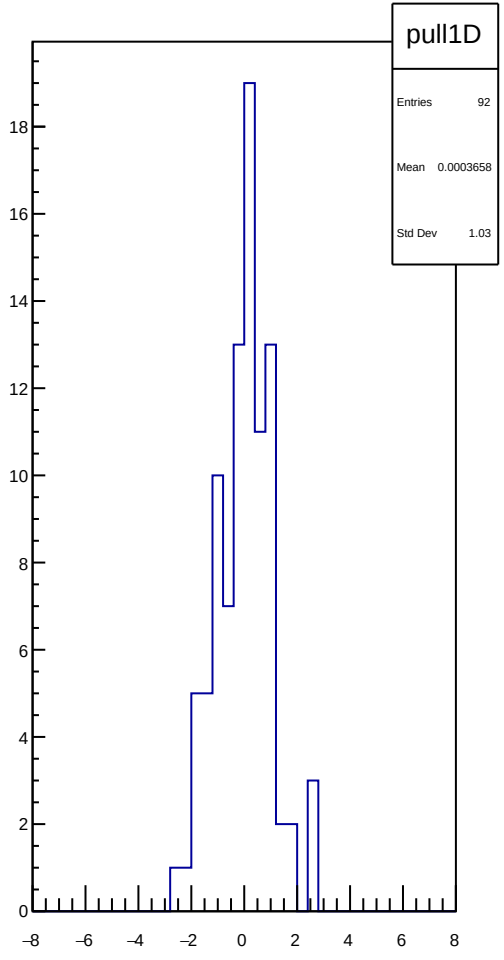

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 2.149e+04 / 91
p0 699.5 ± 0.5271
1000
950
900
850
800
750
700
650
600

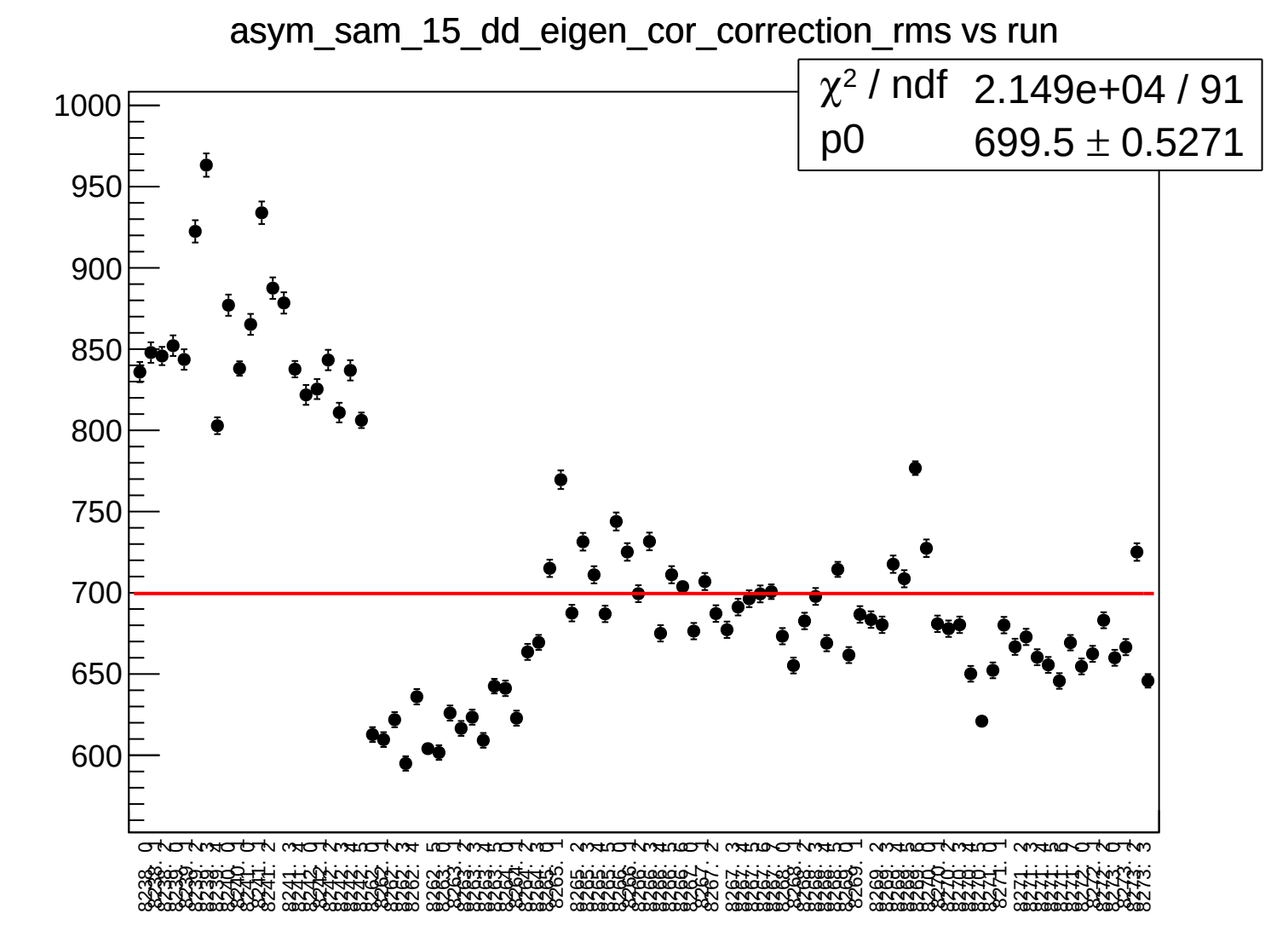

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 96.03 / 91
p0 −87.47 ± 96.74
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −94.04
Std Dev 0
2
1
0
−1
−2

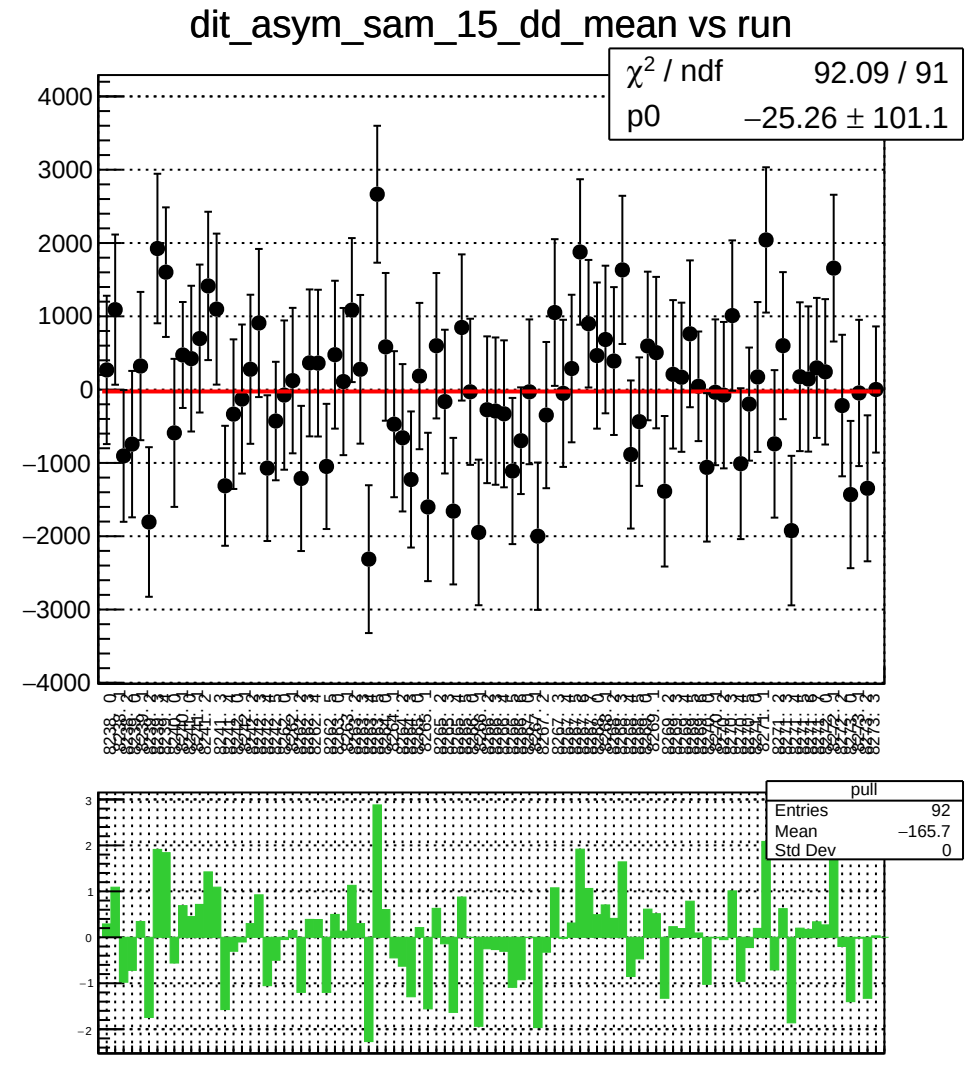

pull1D
Entries 92
Mean 0.004987
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

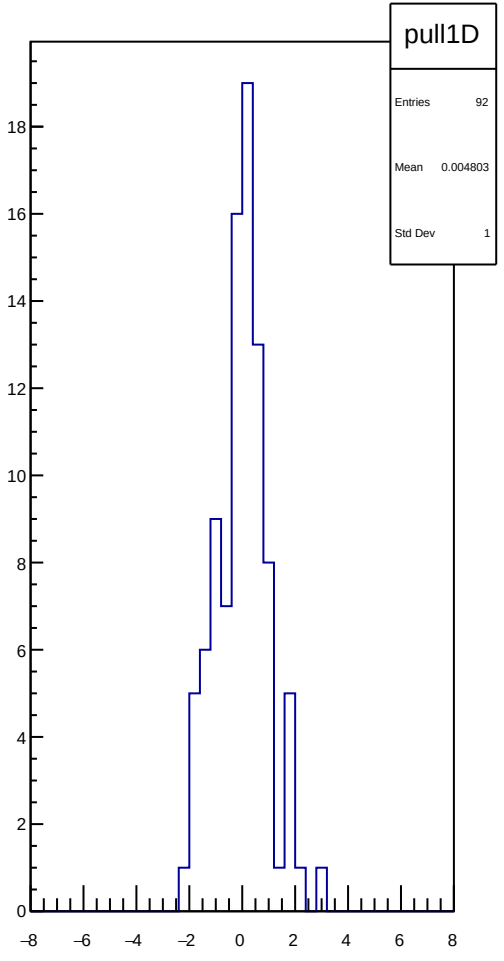

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 346.5 / 91
p0 91.33 ± 0.0684
95
94
93
92
91
90
89
88
87

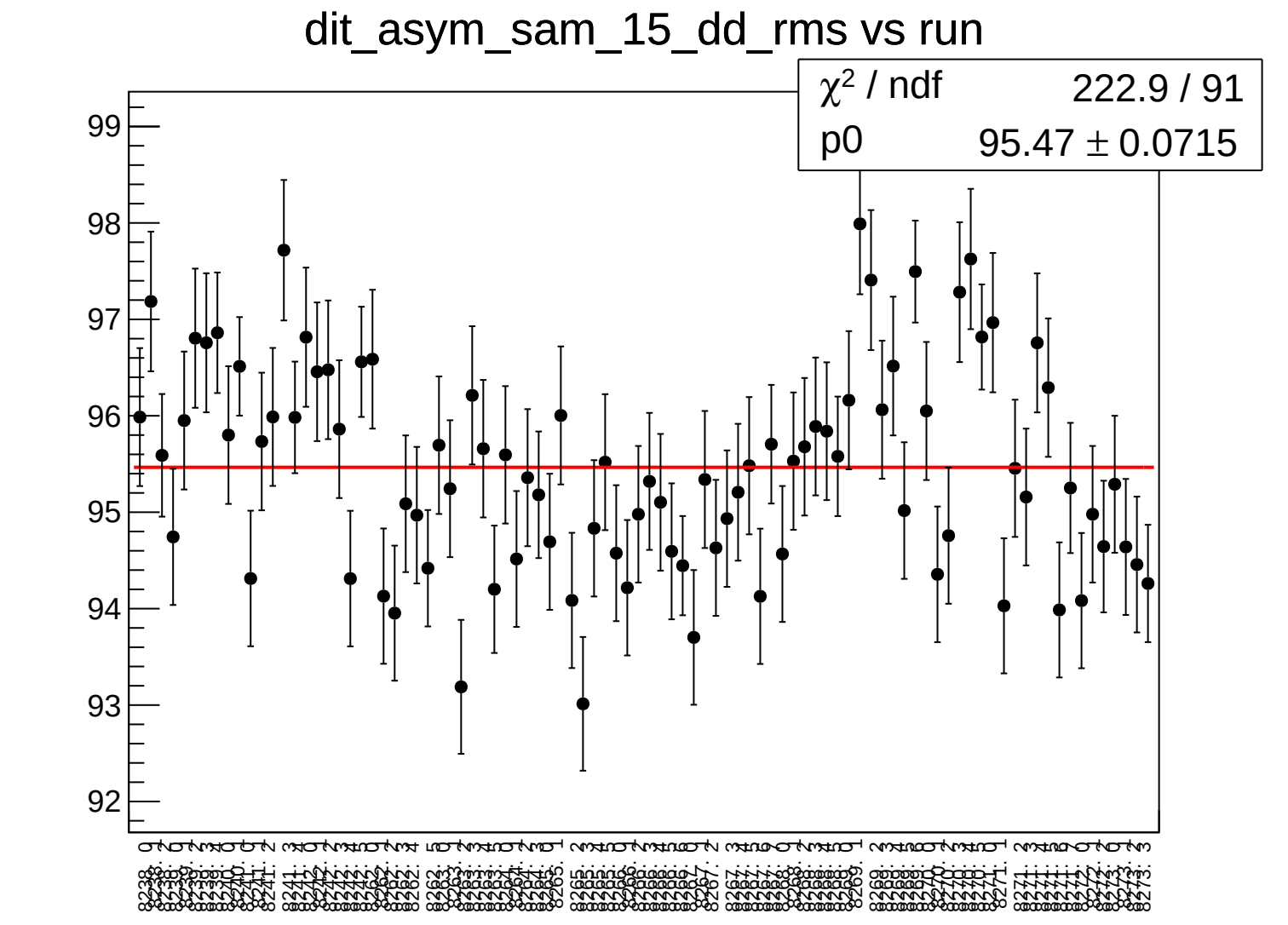

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.63 / 91
p0 −489.4 ± 745.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −3201
Std Dev 0
2
1
0
−1
−2

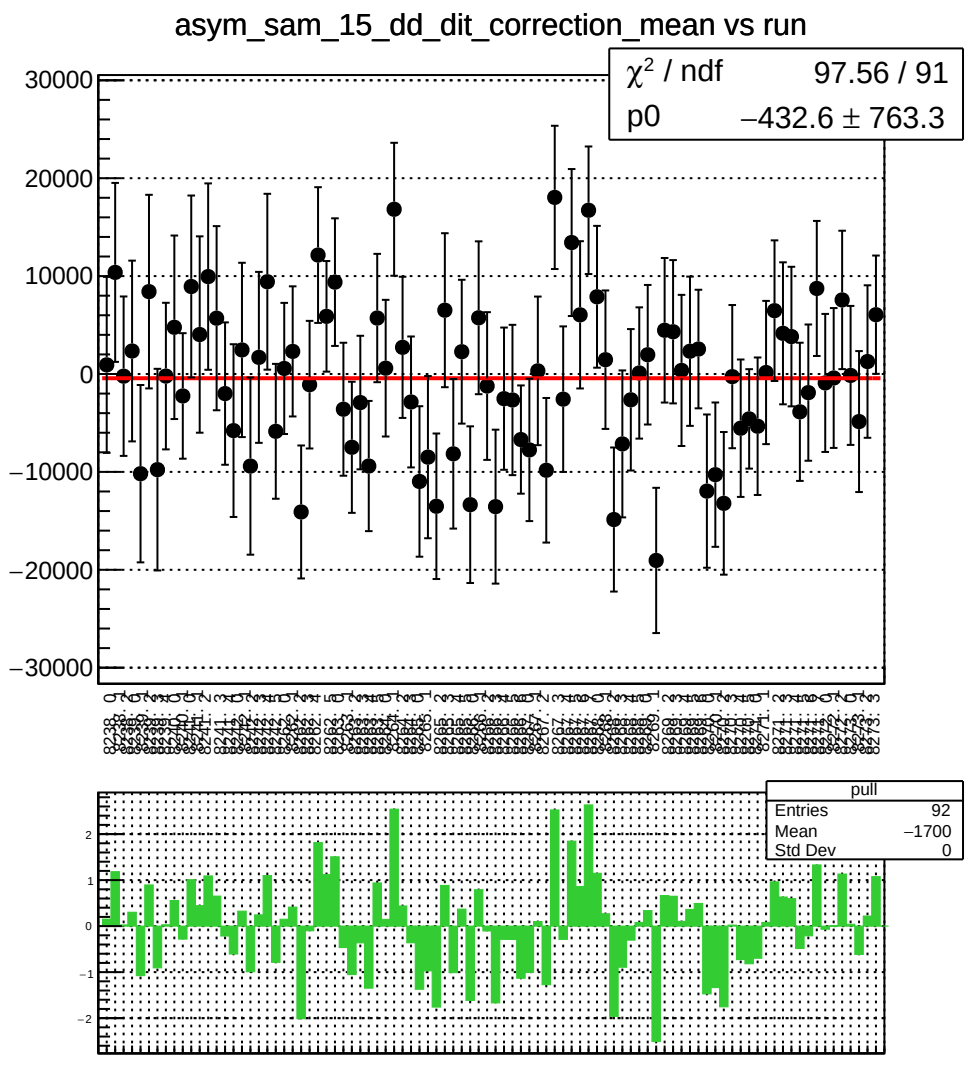

pull1D
Entries 92
Mean 0.0003658
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

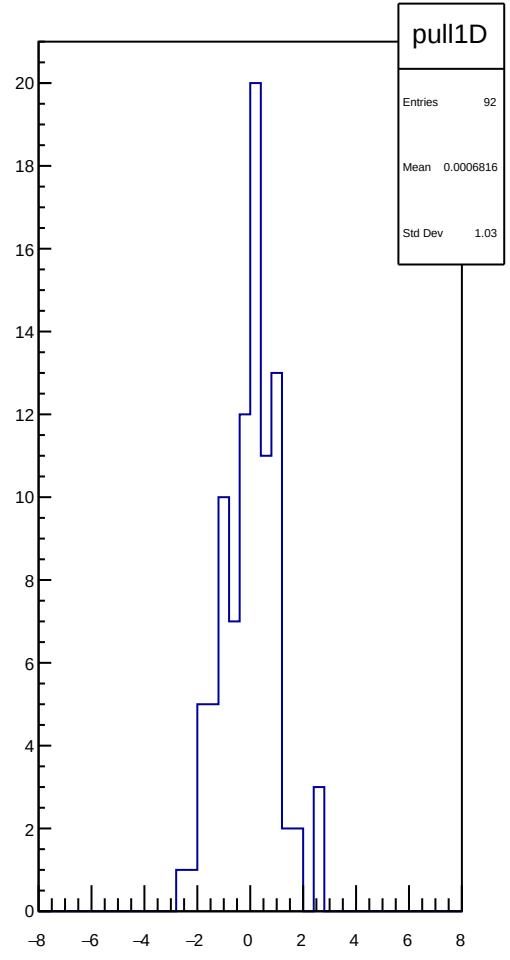

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.149e+04 / 91
p0 699.5 ± 0.5271
1000
950
900
850
800
750
700
650
600

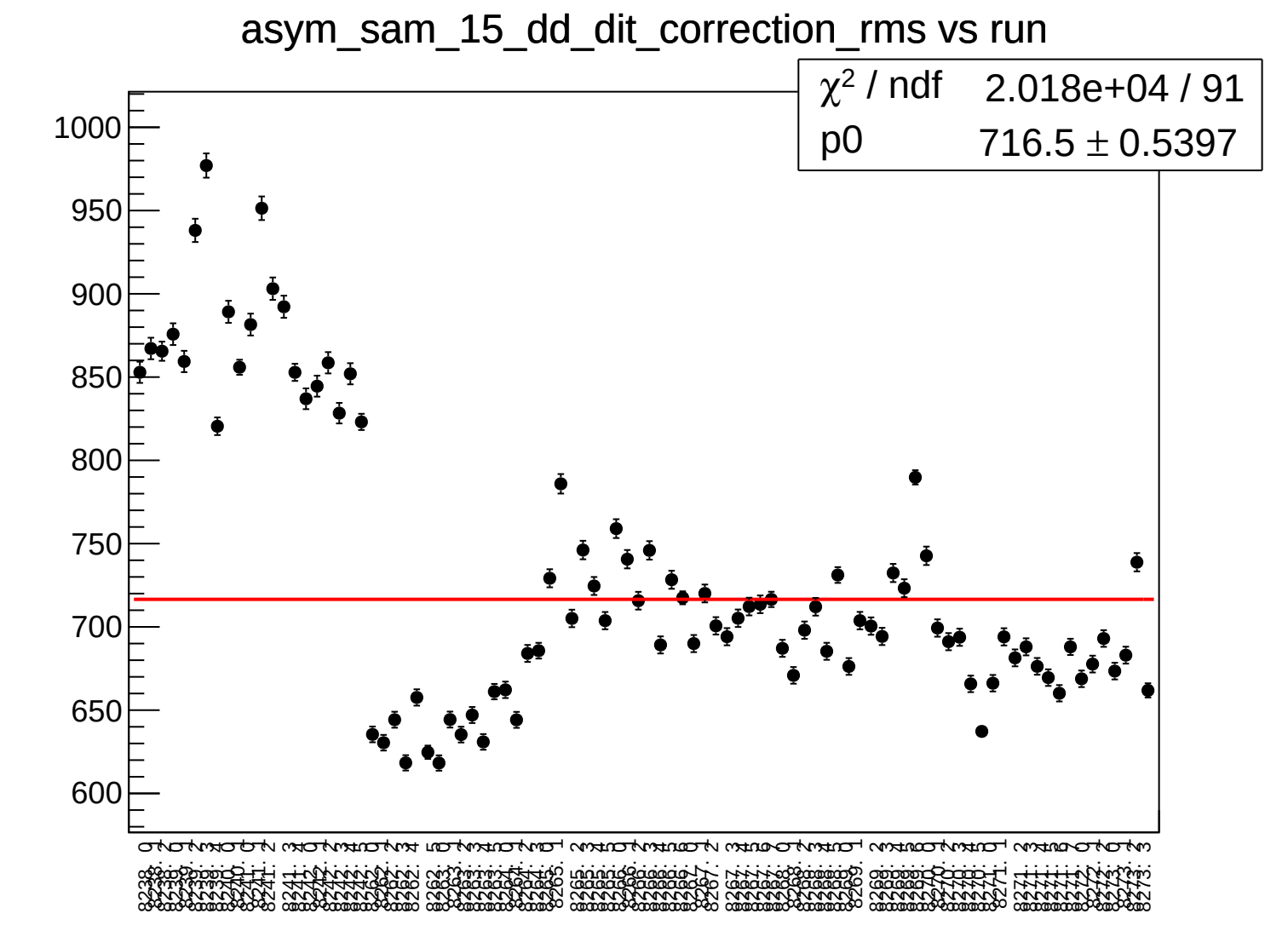

dit_asym_sam_15_dd_mean vs run
χ² / ndf 92.09 / 91
p0 −25.26 ± 101.1
pull
Entries 92
Mean −165.7
Std Dev 0

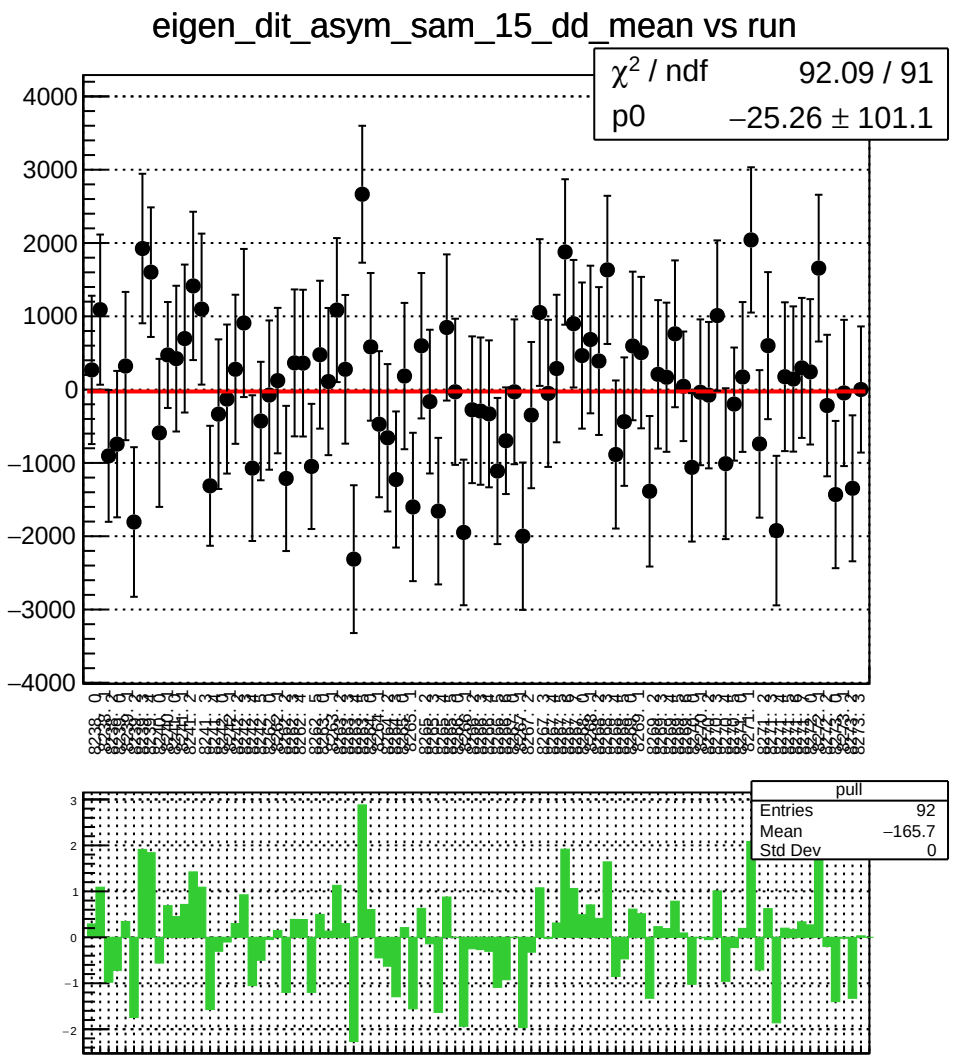

pull1D
Entries 92
Mean 0.004803
Std Dev 1

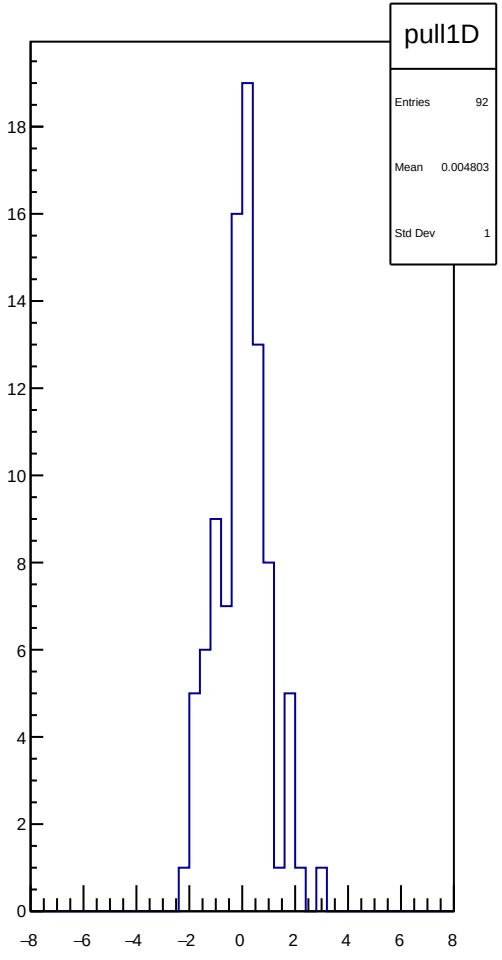

dit_asym_sam_15_dd_rms vs run
χ² / ndf 222.9 / 91
p0 95.47 ± 0.0715
99
98
97
96
95
94
93
92

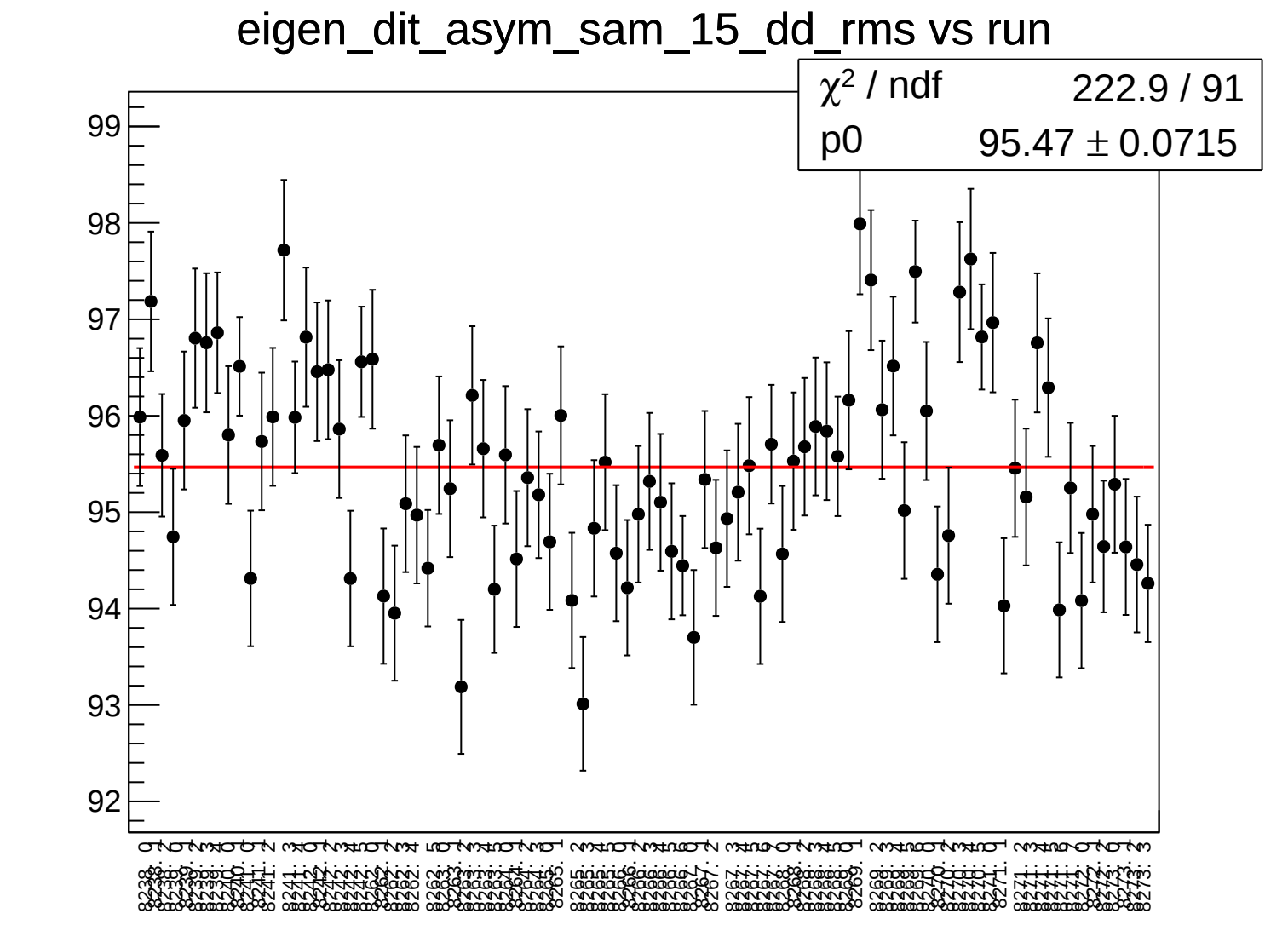

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 97.56 / 91
p0 −432.6 ± 763.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1700
Std Dev 0
2
1
0
−1
−2

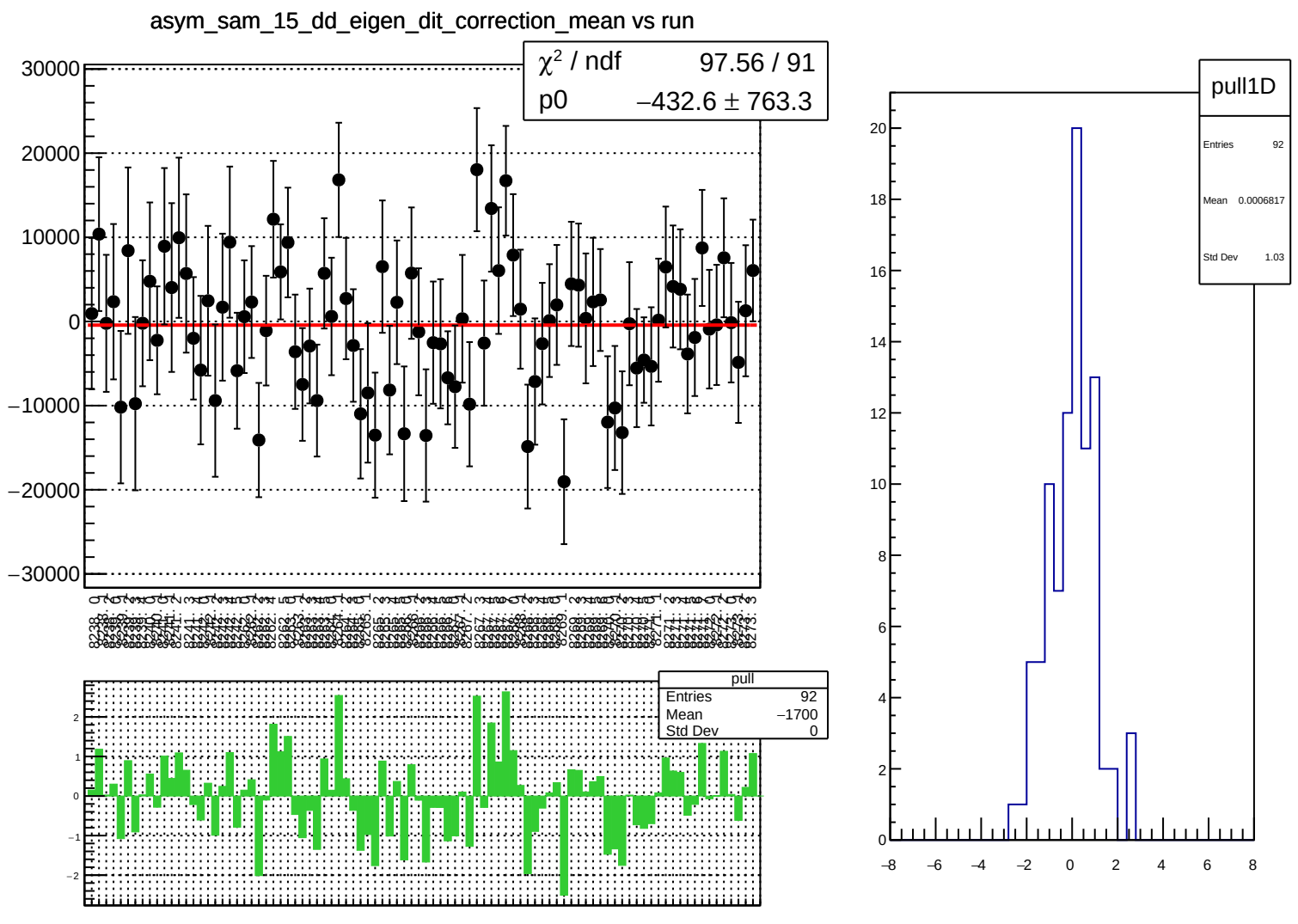

pull1D
Entries 92
Mean 0.0006816
Std Dev 1.03
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

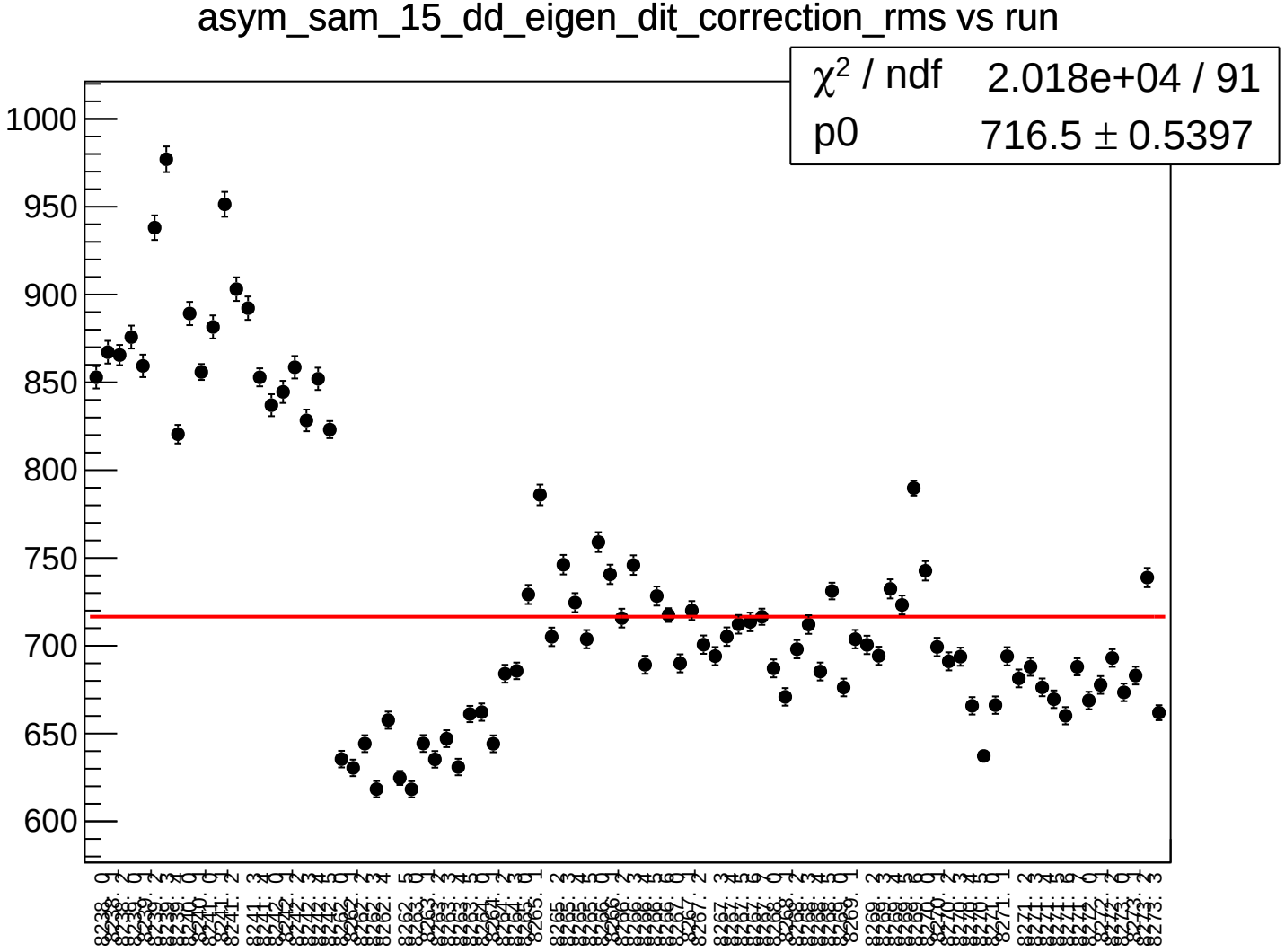

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 2.018e+04 / 91
p0 716.5 ± 0.5397
1000
950
900
850
800
750
700
650
600

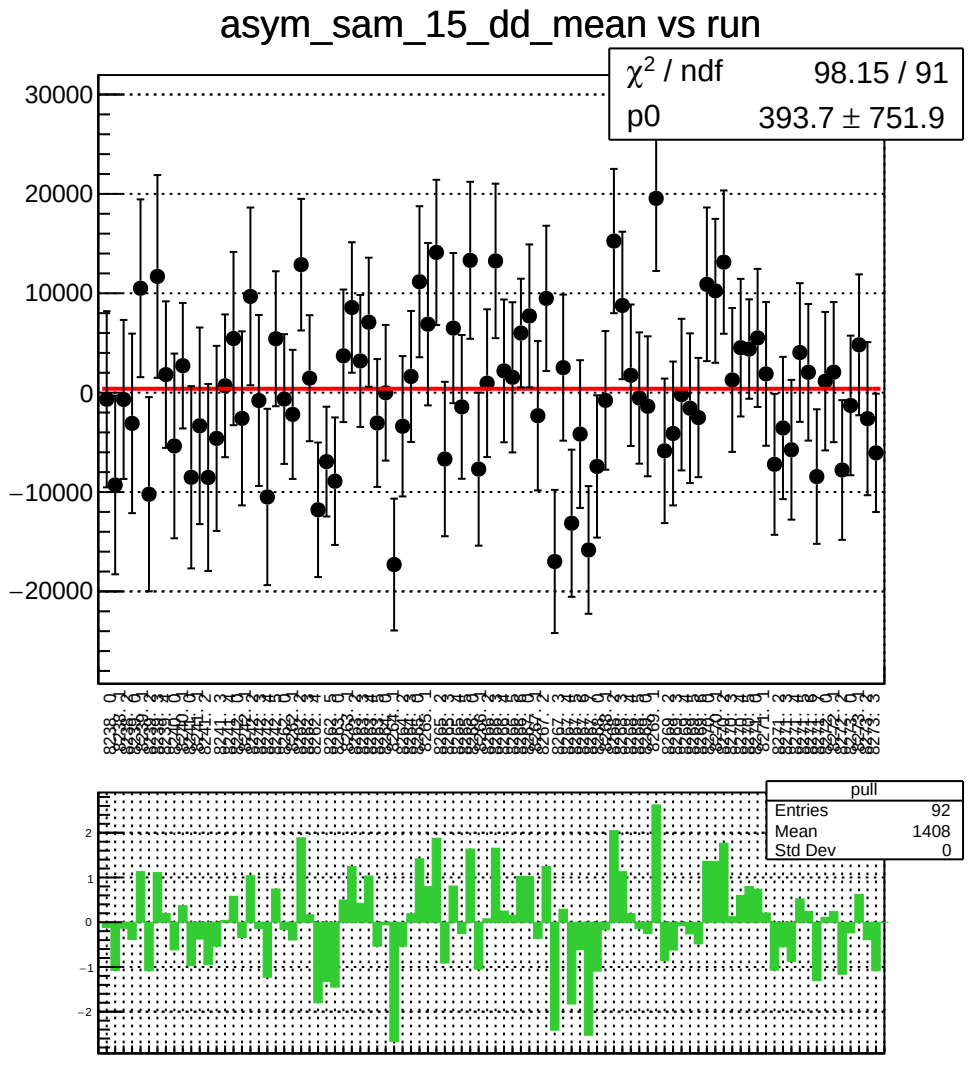

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 92.09 / 91
p0 −25.26 ± 101.1
pull
Entries 92
Mean −165.7
Std Dev 0

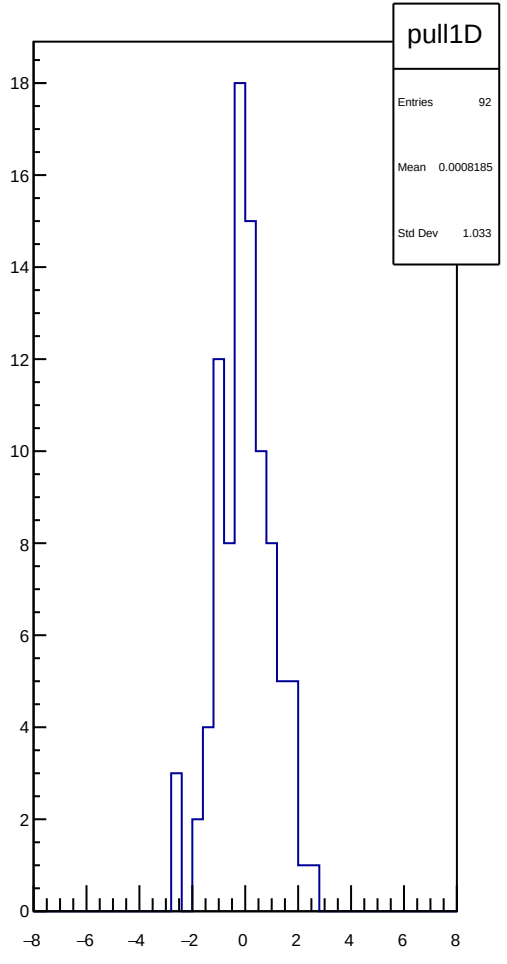

pull1D
Entries 92
Mean 0.004803
Std Dev 1

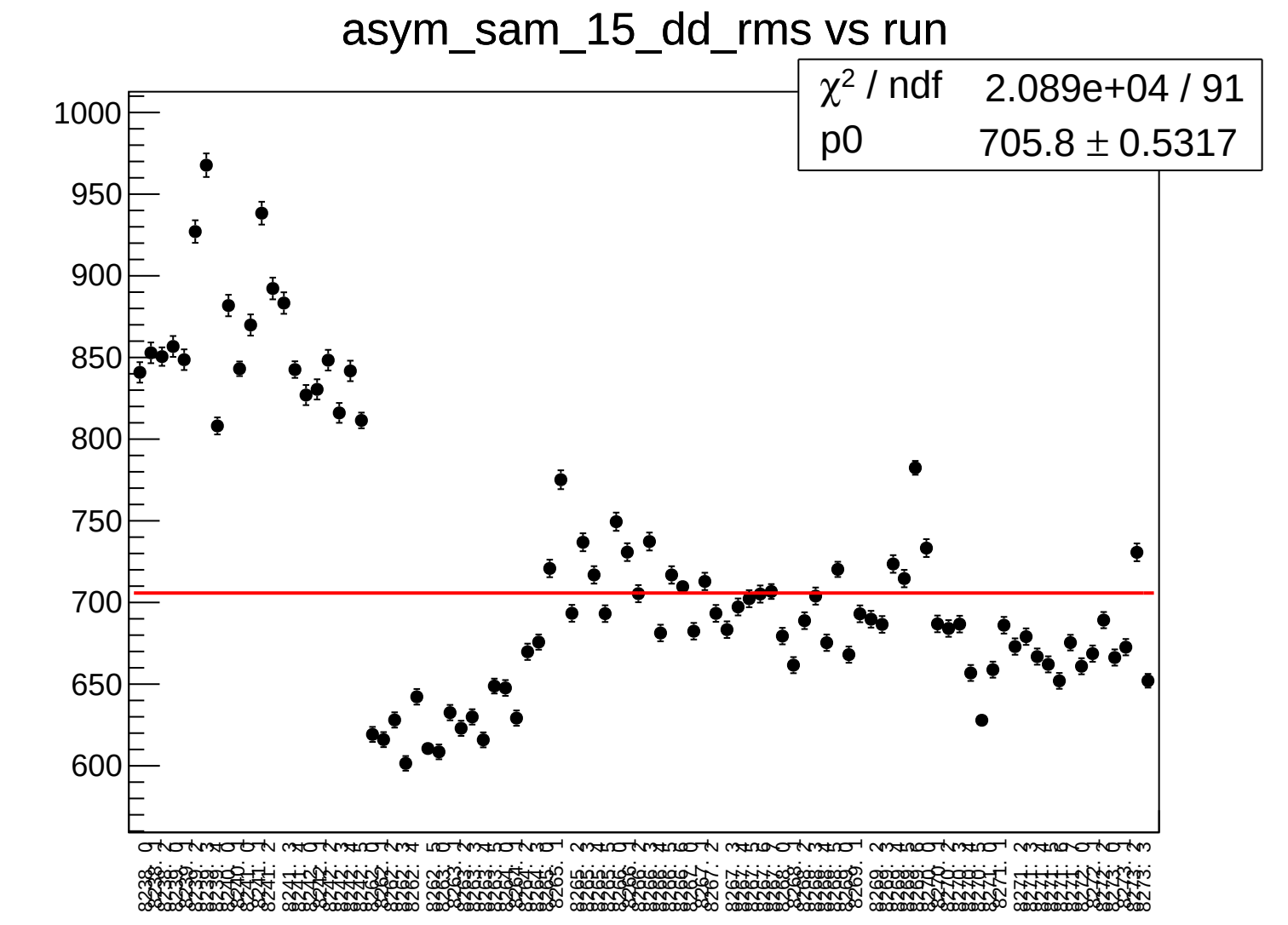

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 222.9 / 91
p0 95.47 ± 0.0715
99
98
97
96
95
94
93
92

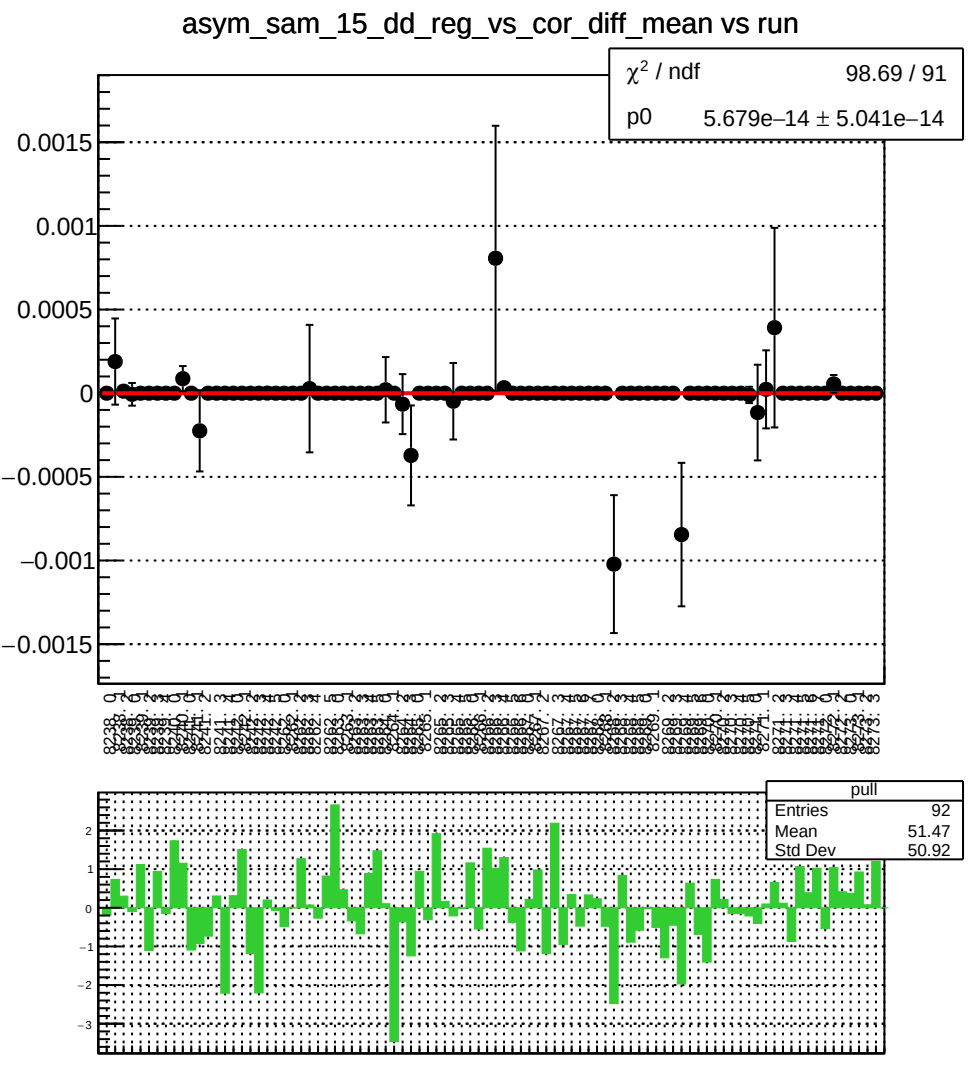

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 97.56 / 91
p0 −432.6 ± 763.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1700
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0006817
Std Dev 1.03
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

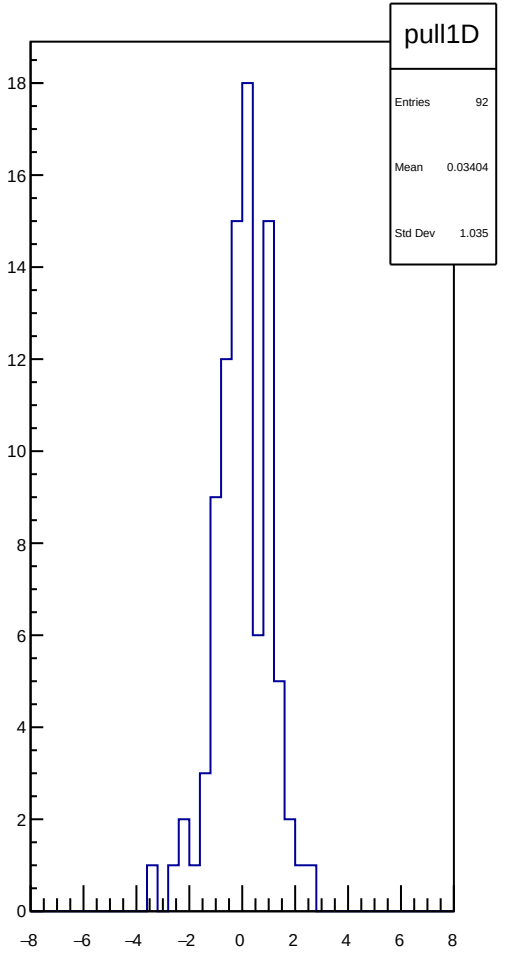

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.018e+04 / 91
p0 716.5 ± 0.5397
1000
950
900
850
800
750
700
650
600

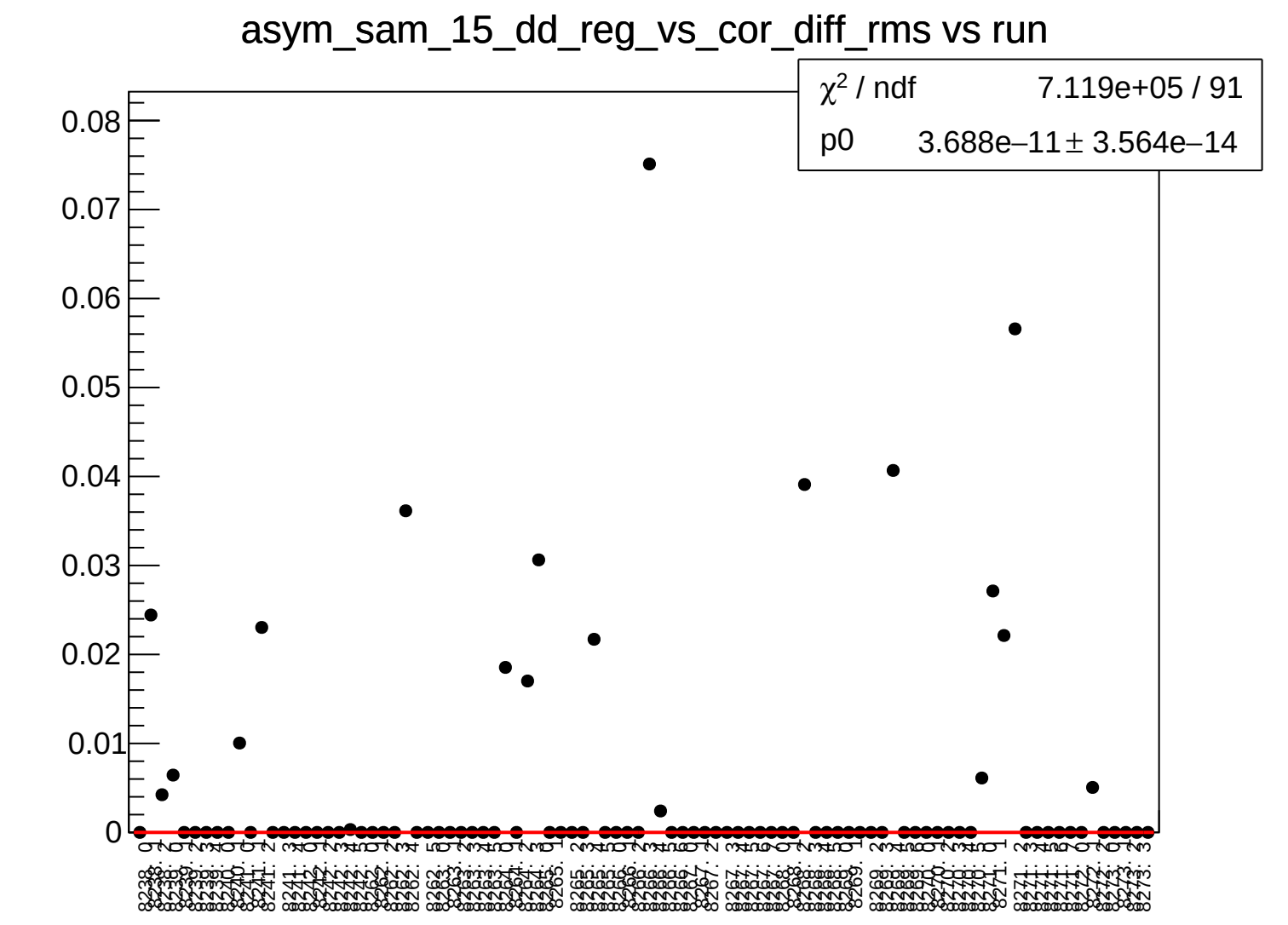

asym_sam_15_dd_mean vs run
χ² / ndf 98.15 / 91
p0 393.7 ± 751.9
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 1408
Std Dev 0
2
1
0
−1
−2

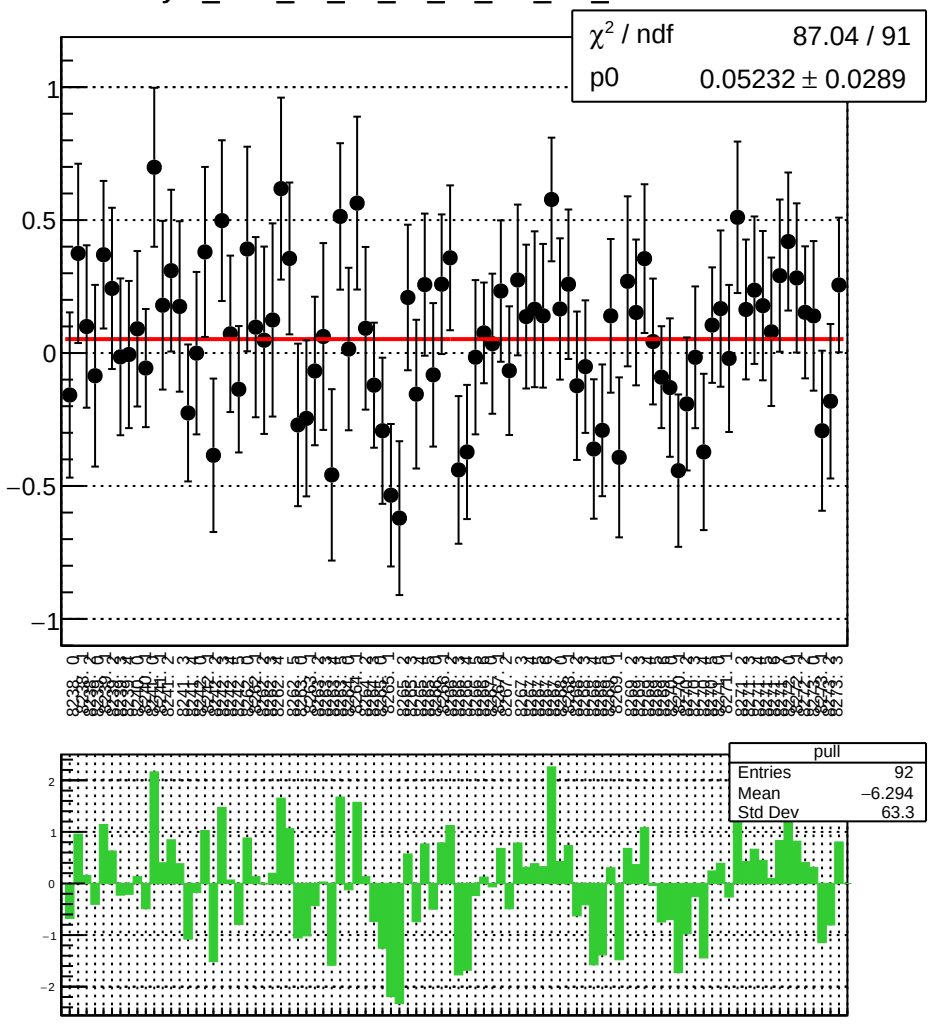

pull1D
Entries 92
Mean 0.0008185
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

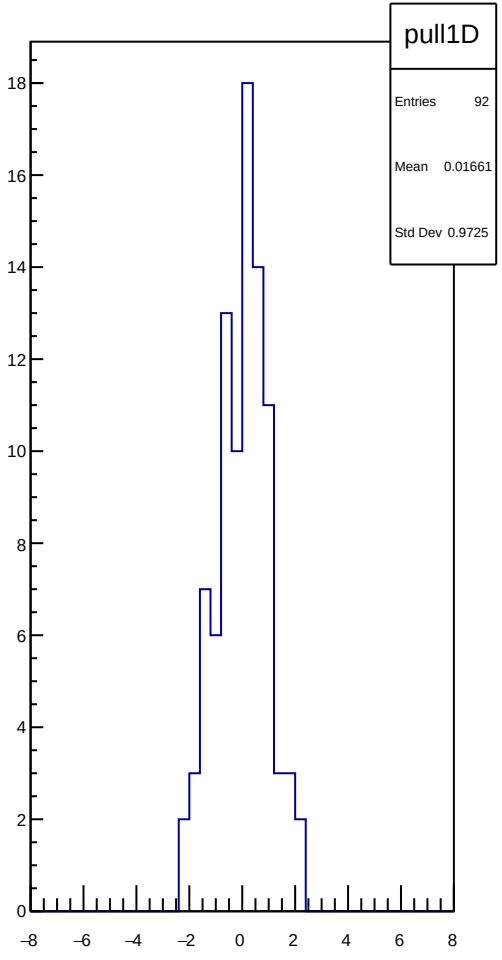

asym_sam_15_dd_rms vs run
χ² / ndf 2.089e+04 / 91
p0 705.8 ± 0.5317
1000
950
900
850
800
750
700
650
600

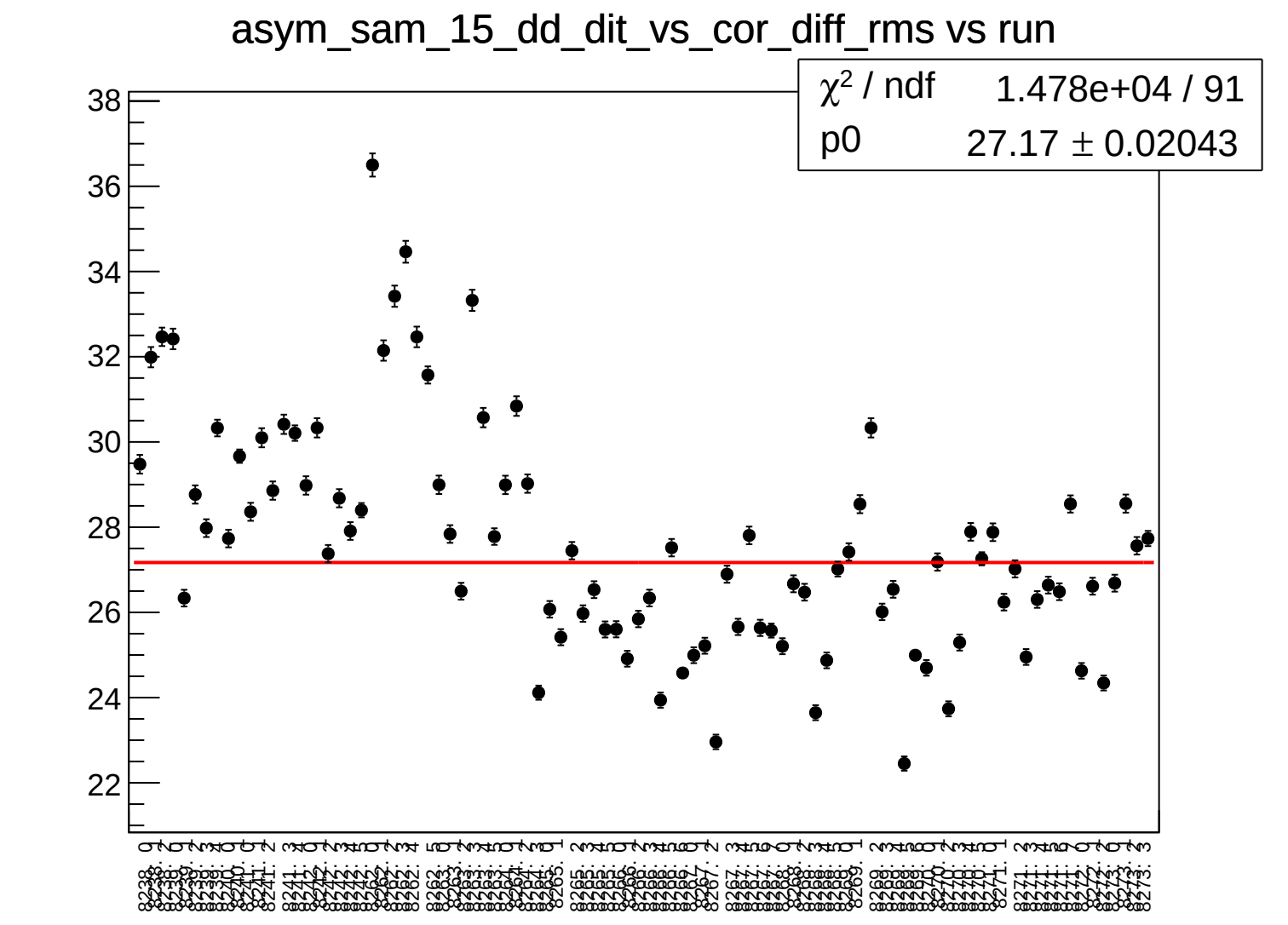

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.69 / 91
p0 5.679e−14 ± 5.041e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 92
Mean 51.47
Std Dev 50.92
2
1
0
−1
−2
−3

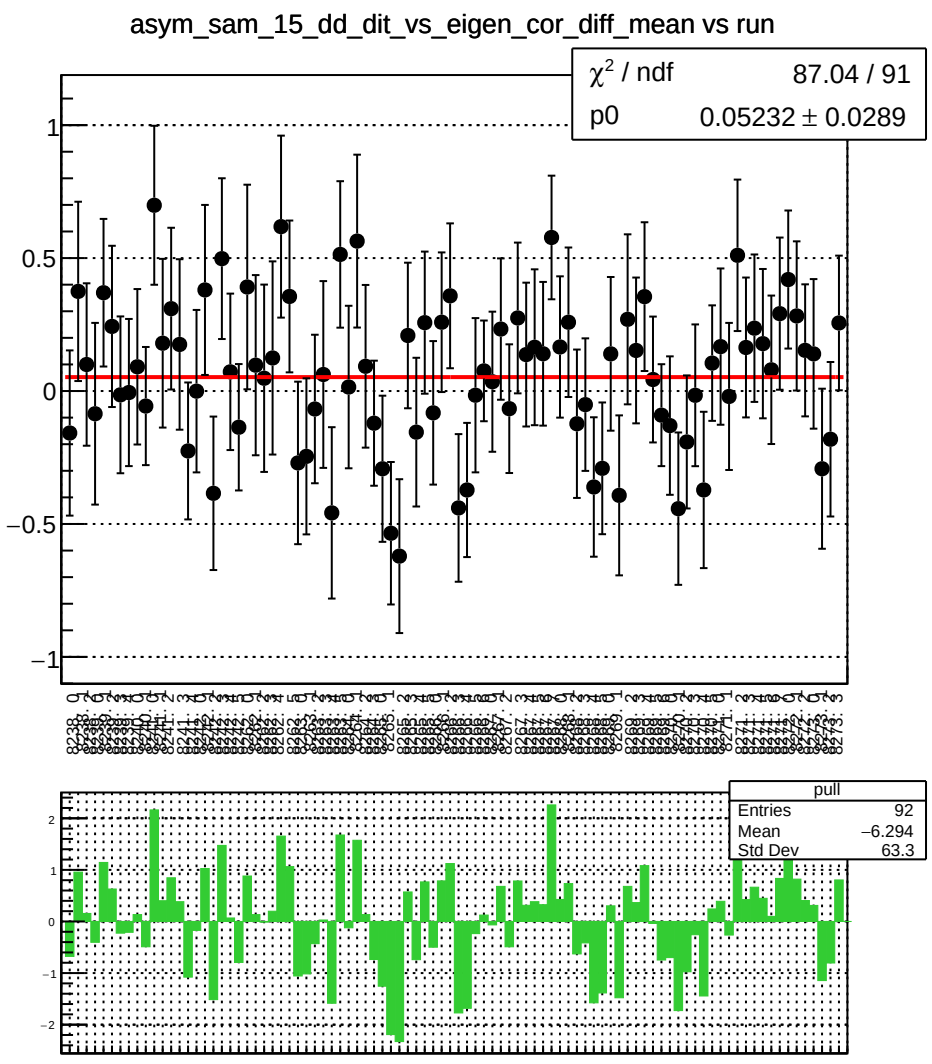

pull1D
Entries 92
Mean 0.03404
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

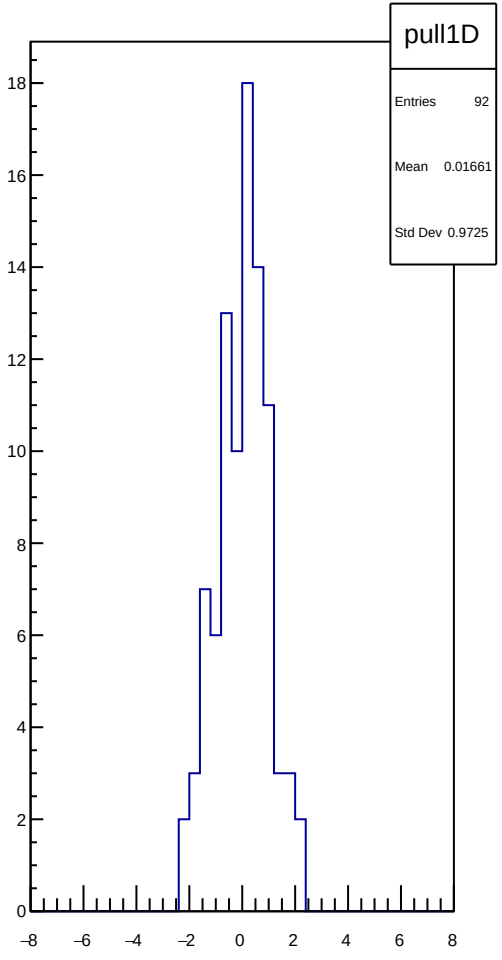

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.119e+05 / 91
p0 3.688e−11 ± 3.564e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

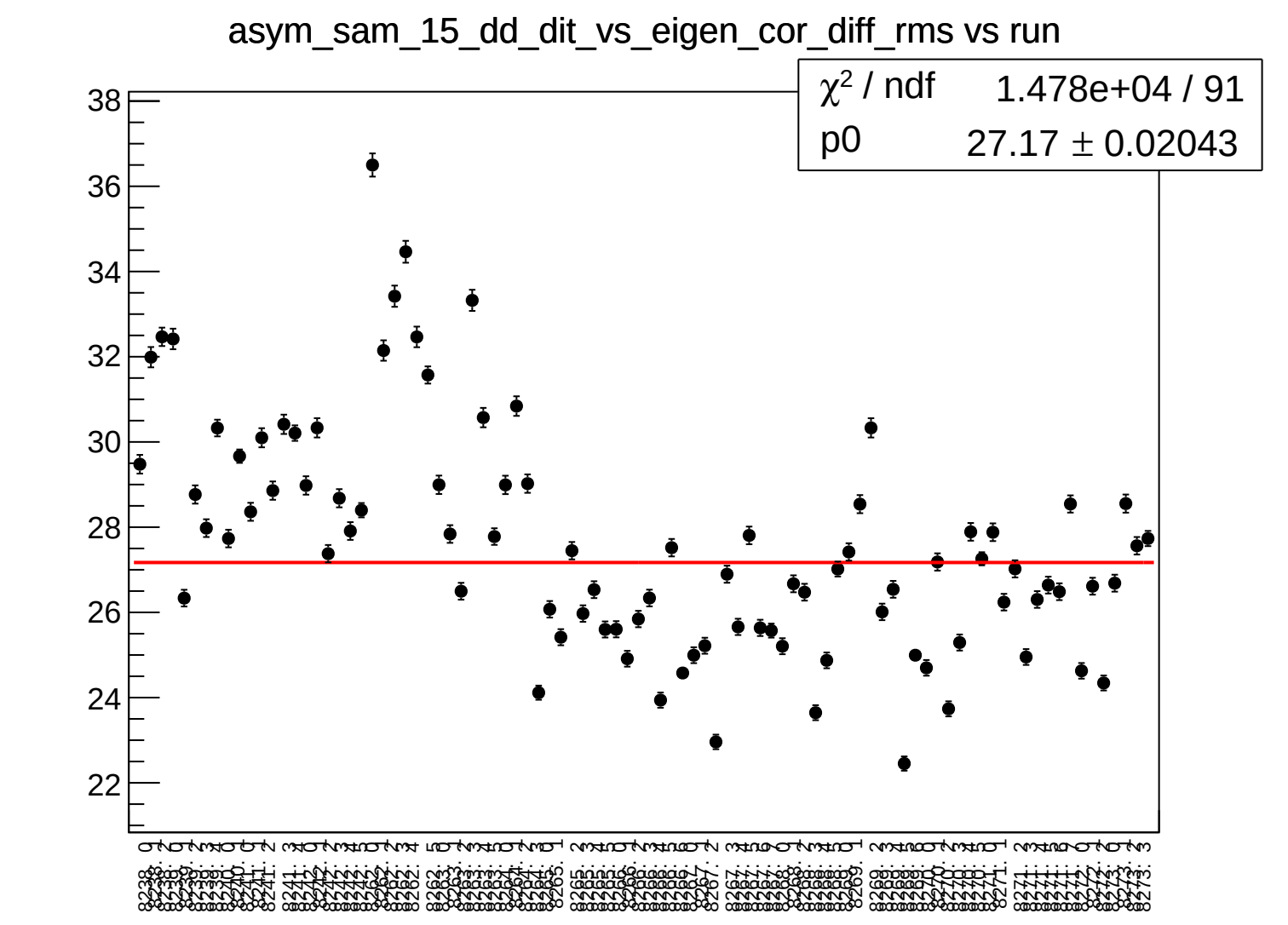

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.04 / 91
p0 0.05232 ± 0.0289
pull
Entries 92
Mean −6.294
Std Dev 63.3

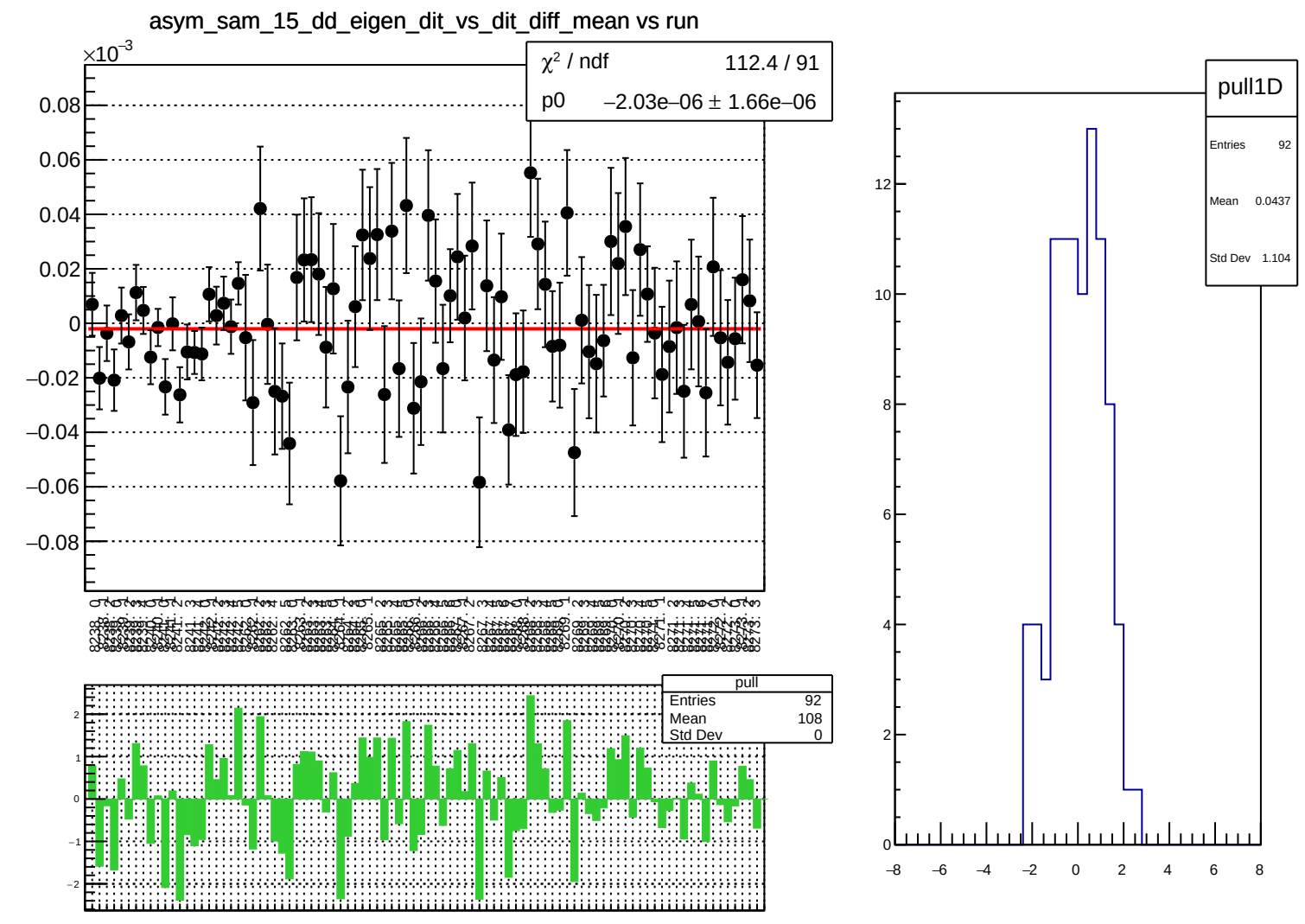

pull1D
Entries 92
Mean 0.01661
Std Dev 0.9725

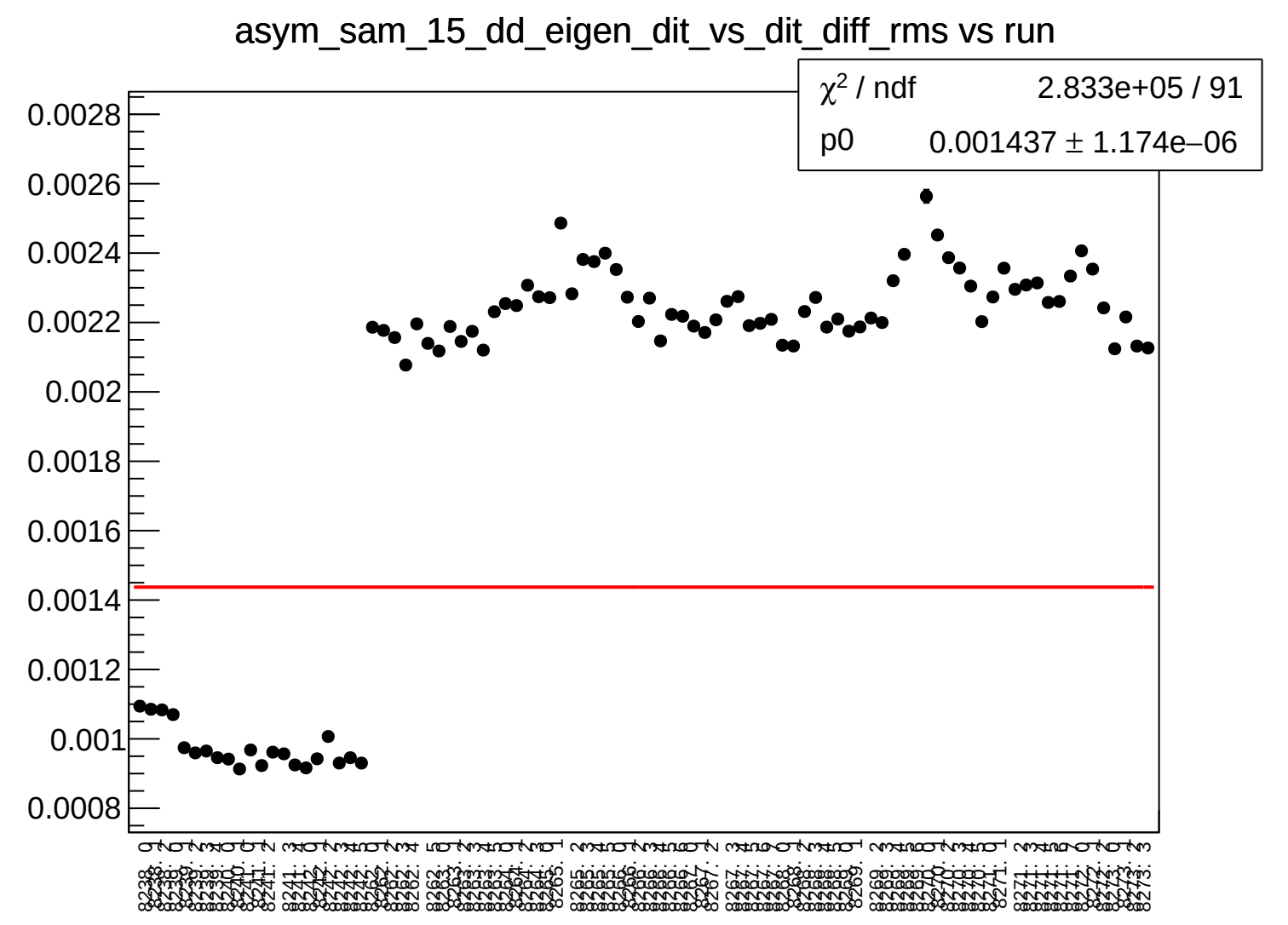

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.478e+04 / 91
p0 27.17 ± 0.02043
38
36
34
32
30
28
26
24
22

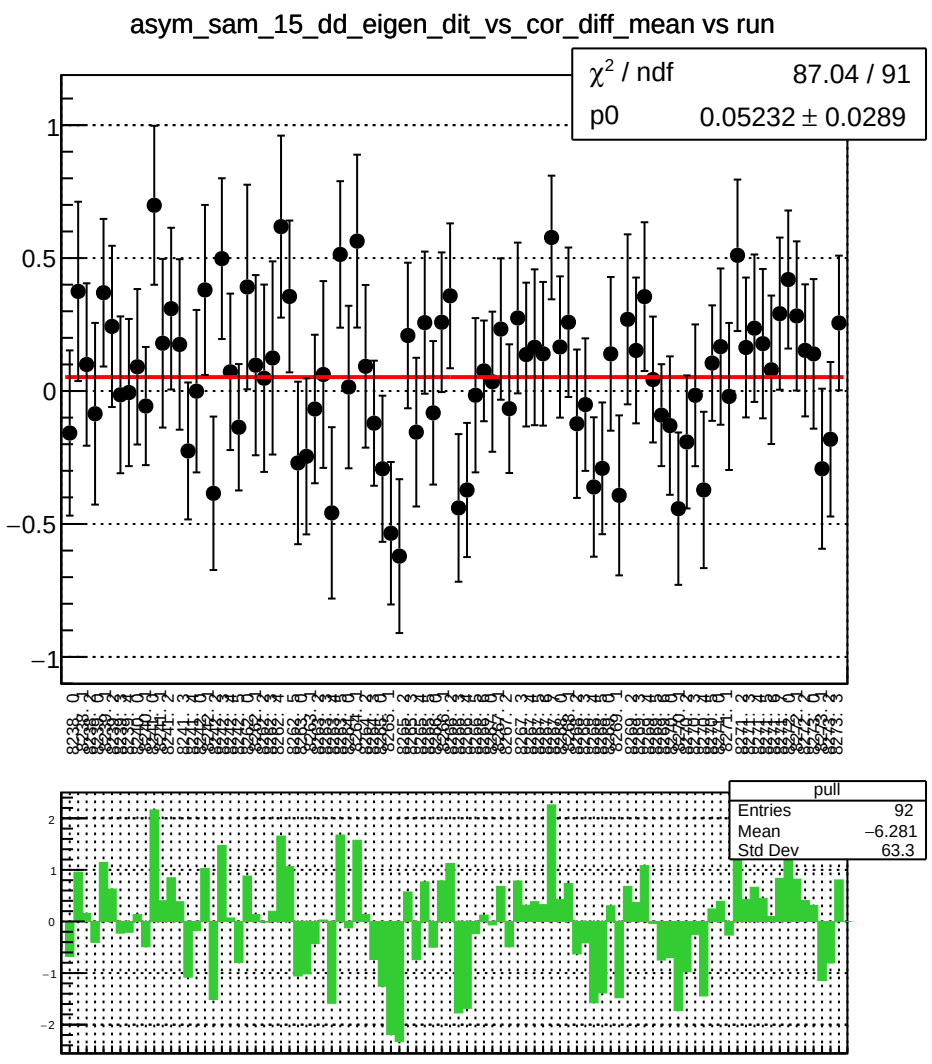

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.04 / 91
p0 0.05232 ± 0.0289
pull
Entries 92
Mean −6.294
Std Dev 63.3

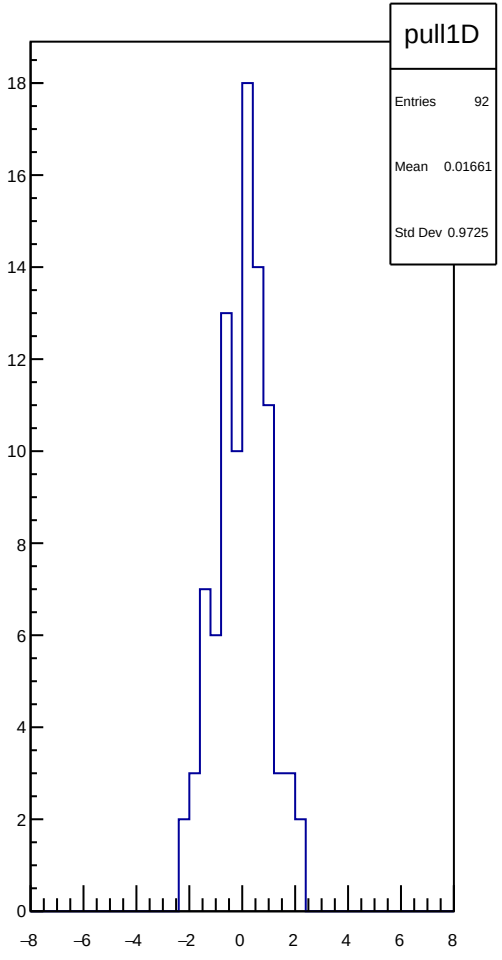

pull1D
Entries 92
Mean 0.01661
Std Dev 0.9725

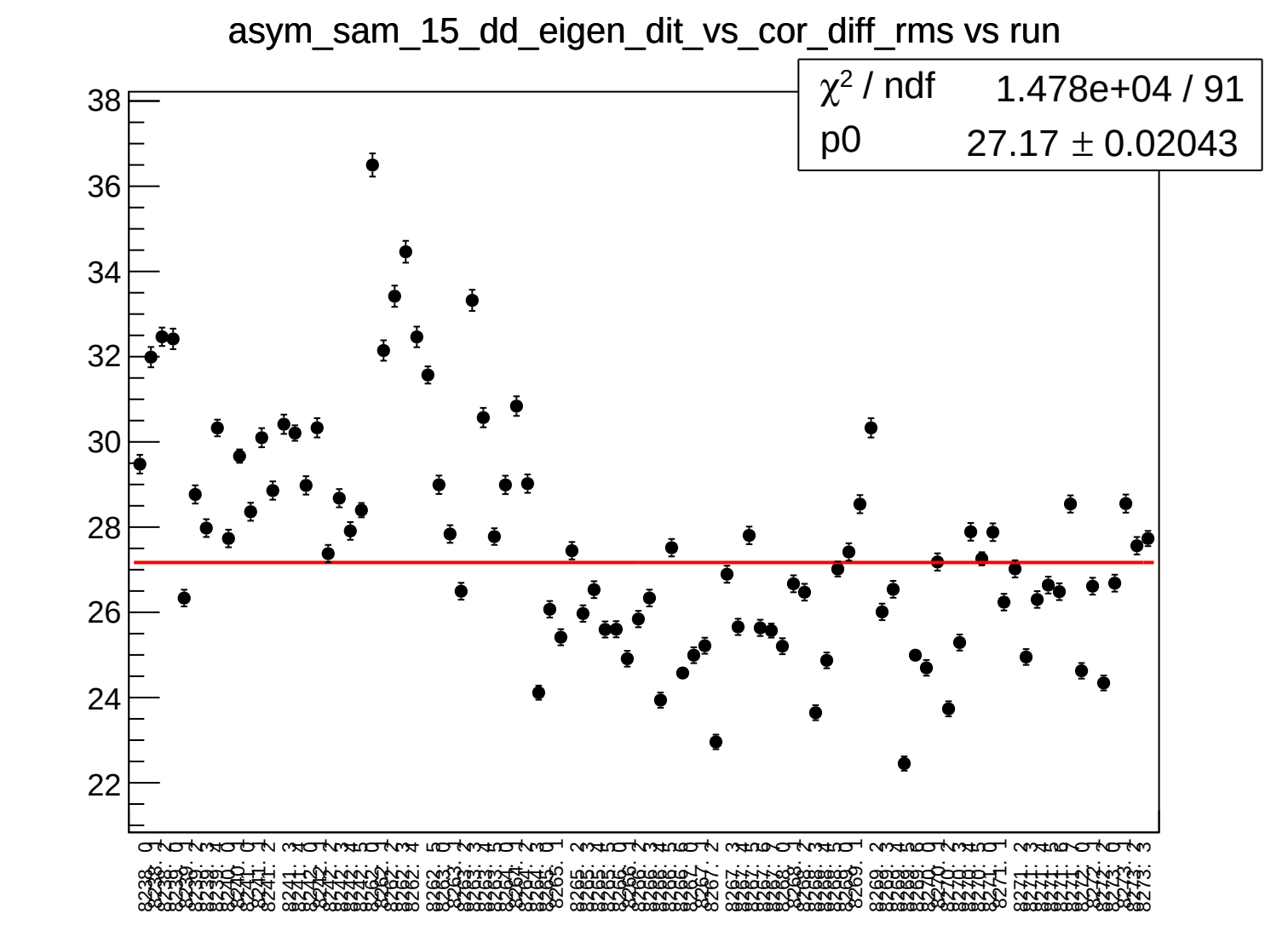

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.478e+04 / 91
p0 27.17 ± 0.02043
38
36
34
32
30
28
26
24
22

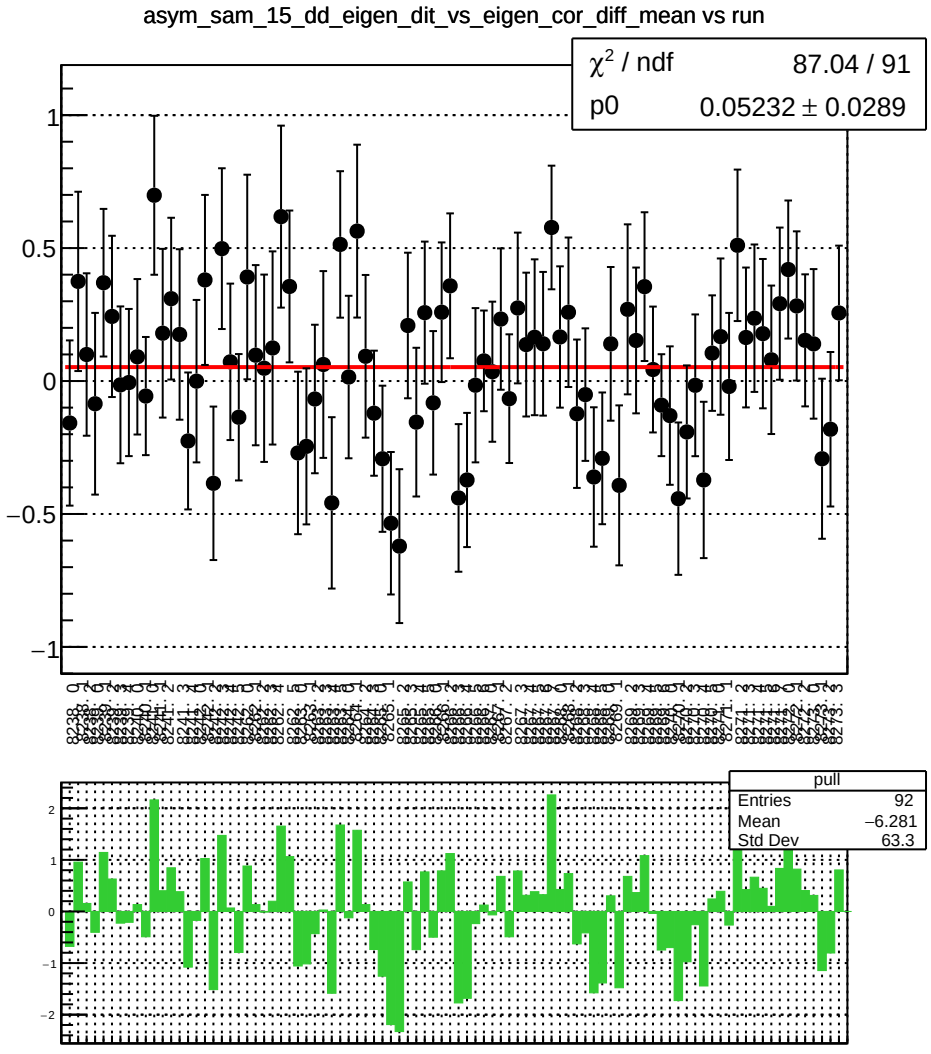

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 112.4 / 91
p0 −2.03e−06 ± 1.66e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 92
Mean 108
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0437
Std Dev 1.104
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

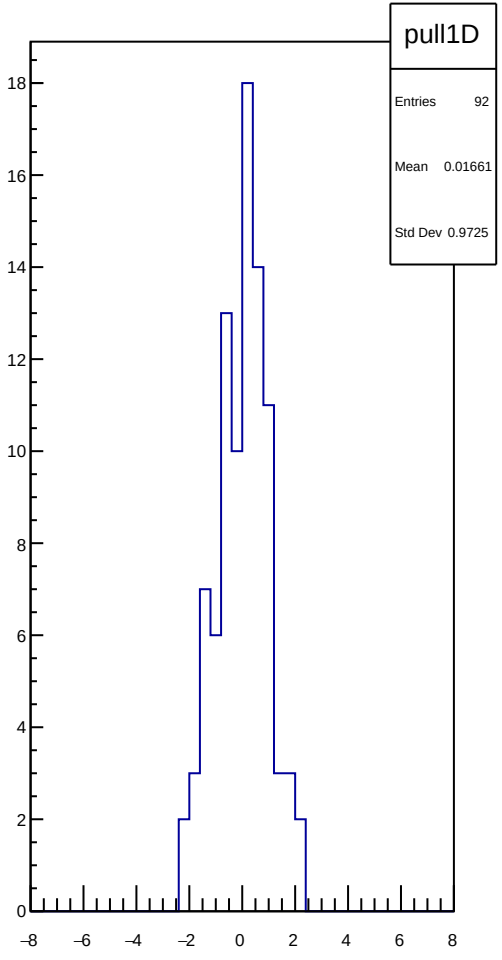

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.833e+05 / 91
p0 0.001437 ± 1.174e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

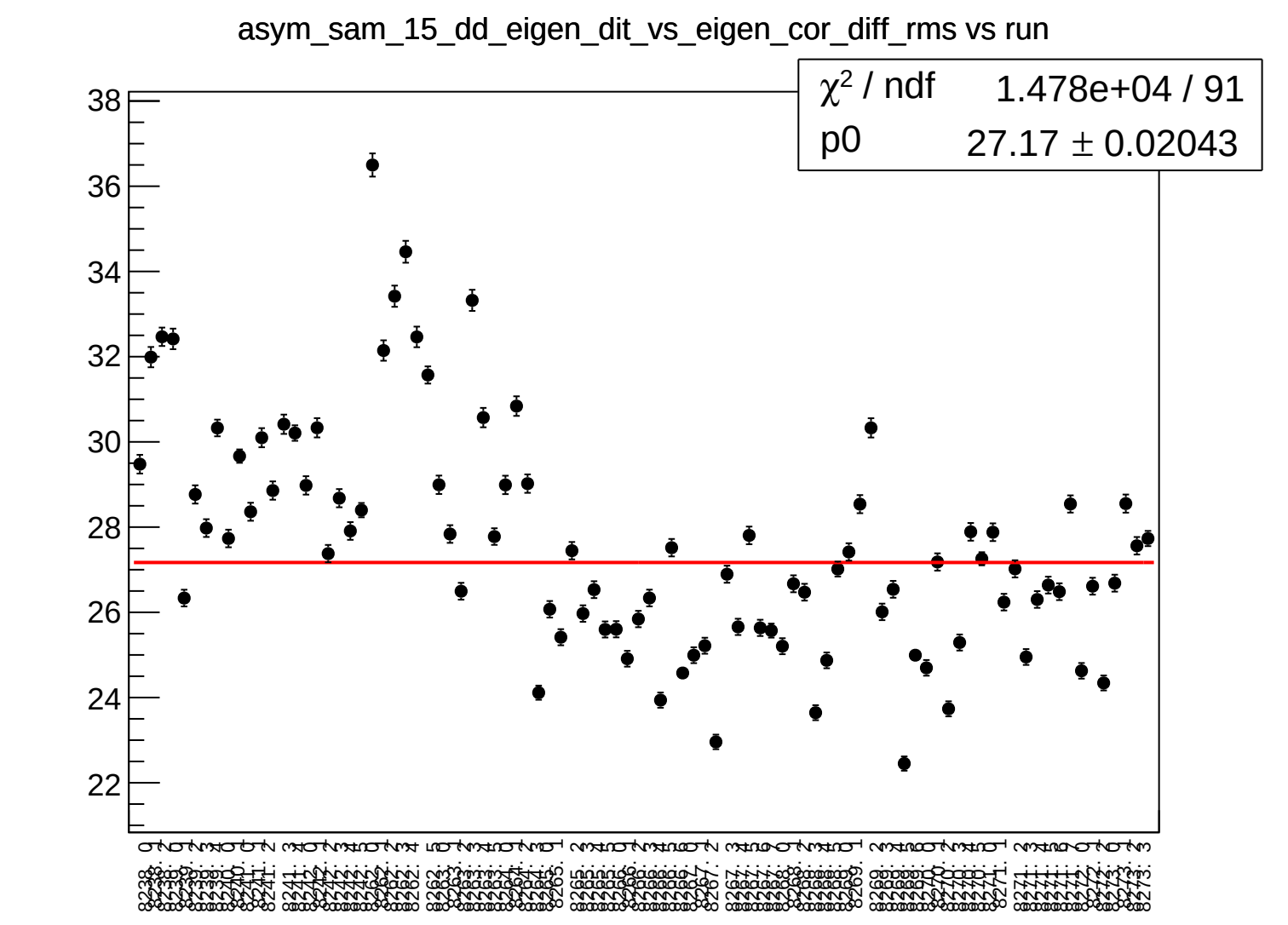

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.04 / 91
p0 0.05232 ± 0.0289
pull
Entries 92
Mean −6.281
Std Dev 63.3

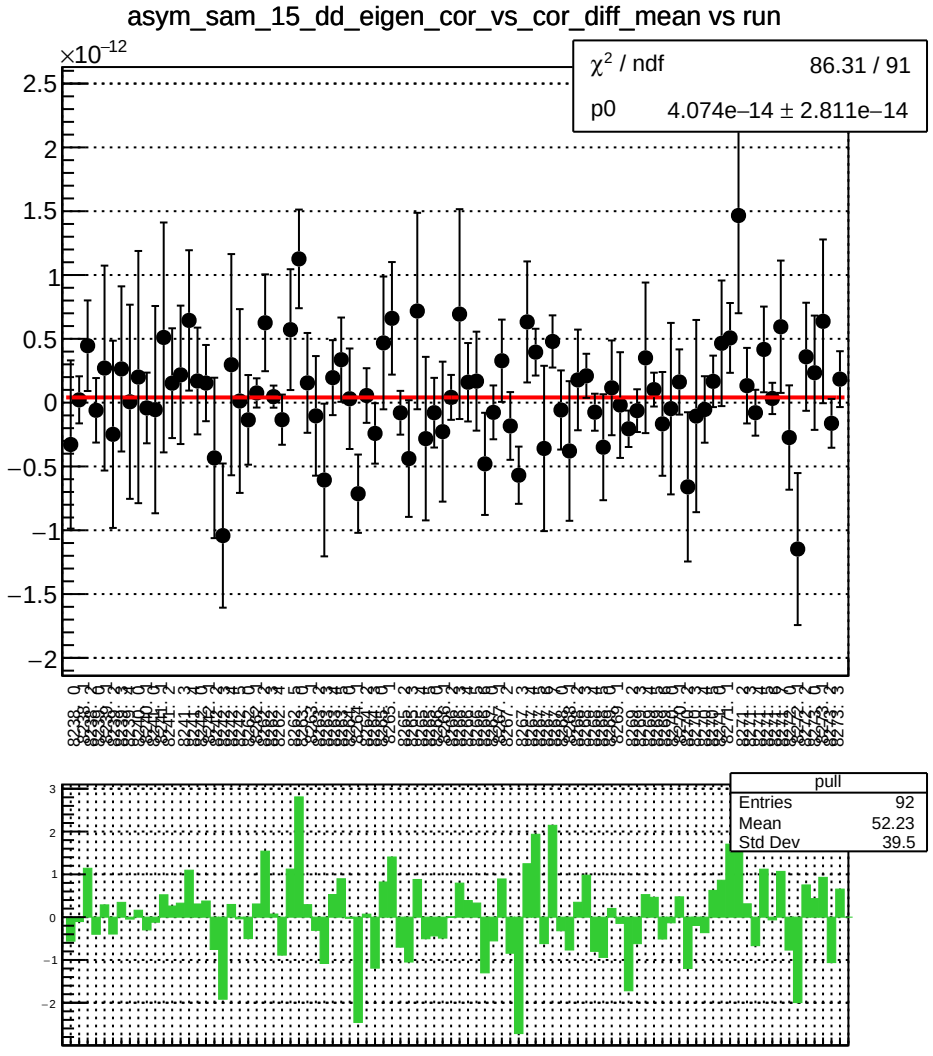

pull1D
Entries 92
Mean 0.01661
Std Dev 0.9725

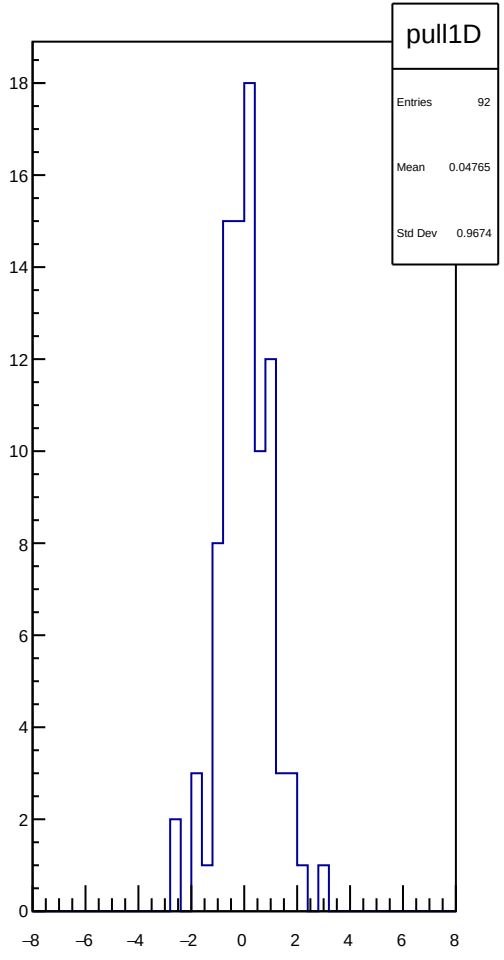

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.478e+04 / 91
p0 27.17 ± 0.02043
38
36
34
32
30
28
26
24
22

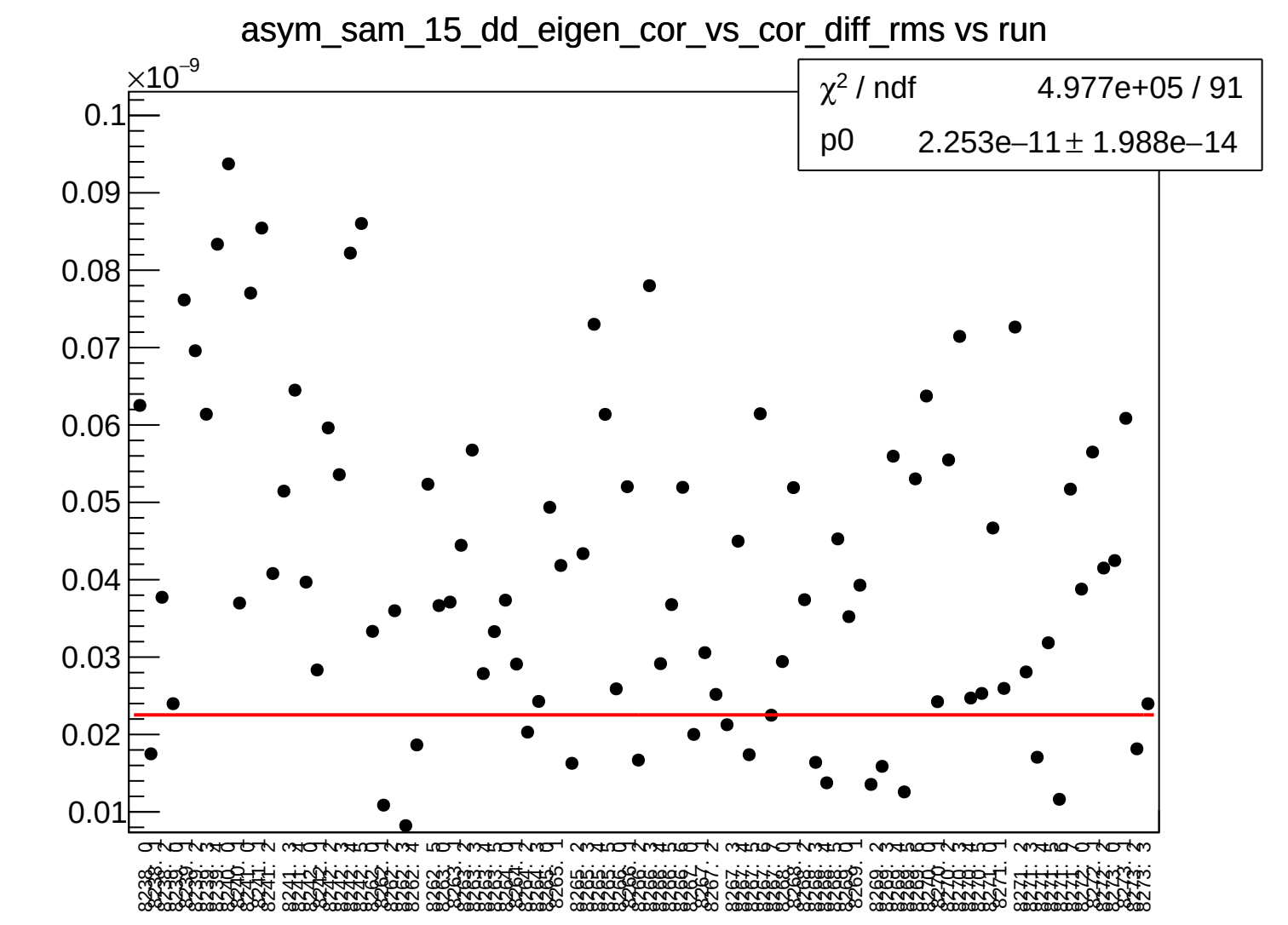

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.04 / 91
p0 0.05232 ± 0.0289
pull
Entries 92
Mean −6.281
Std Dev 63.3

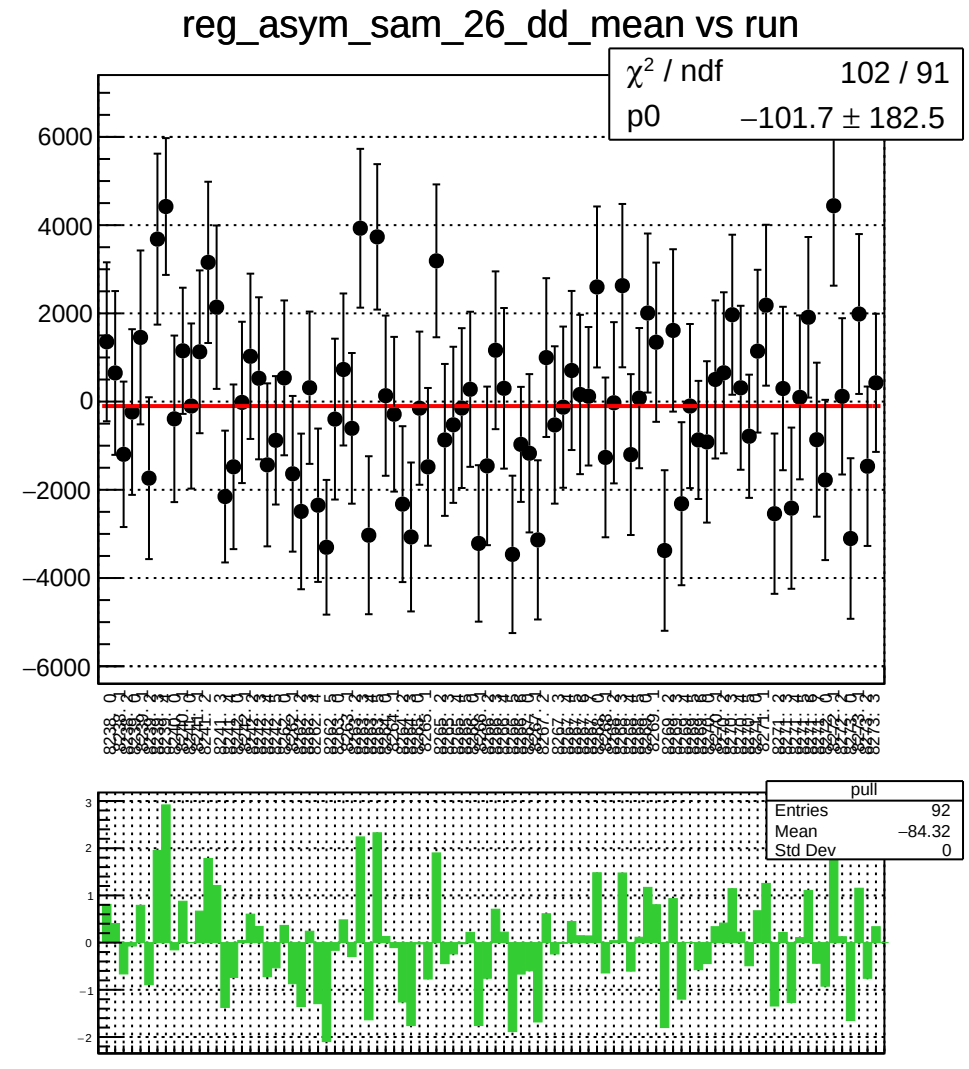

pull1D
Entries 92
Mean 0.01661
Std Dev 0.9725

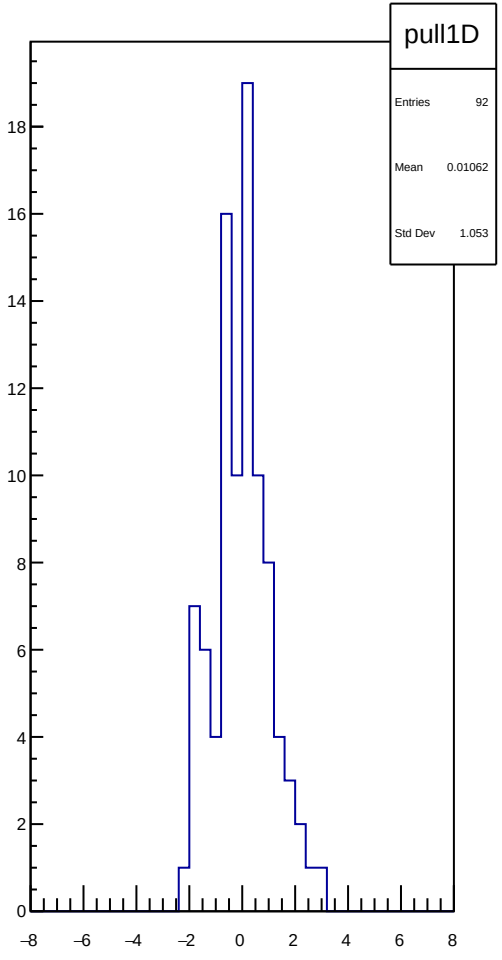

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.478e+04 / 91
p0 27.17 ± 0.02043
38
36
34
32
30
28
26
24
22

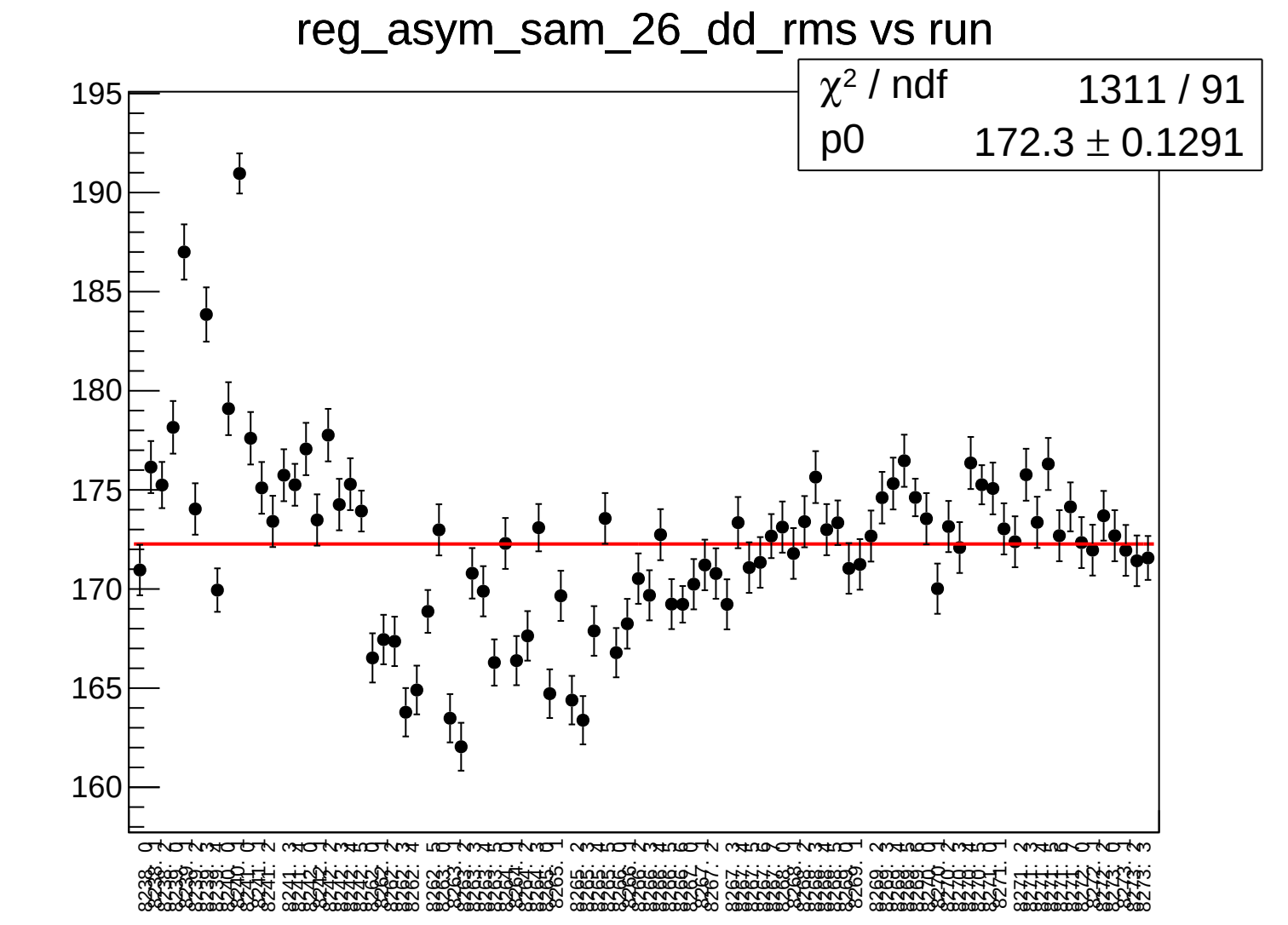

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.31 / 91
p0 4.074e−14 ± 2.811e−14
pull
Entries 92
Mean 52.23
Std Dev 39.5

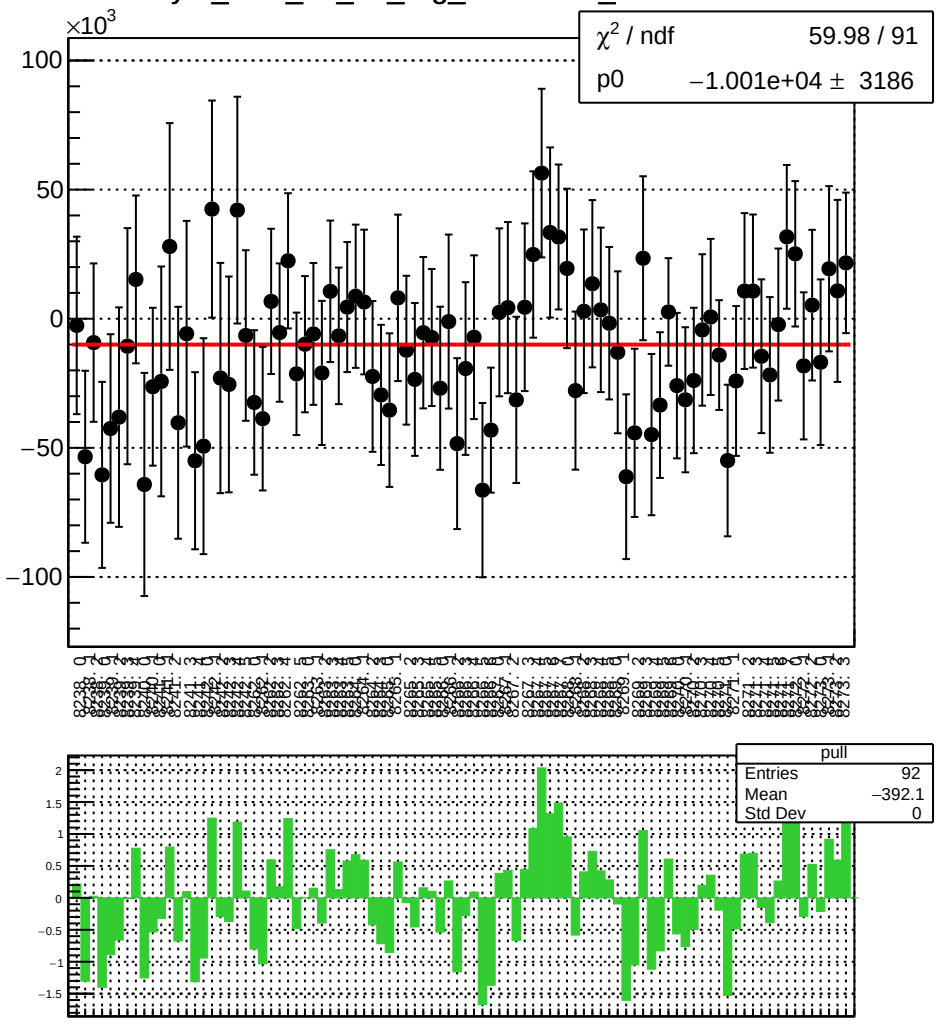

pull1D
Entries 92
Mean 0.04765
Std Dev 0.9674

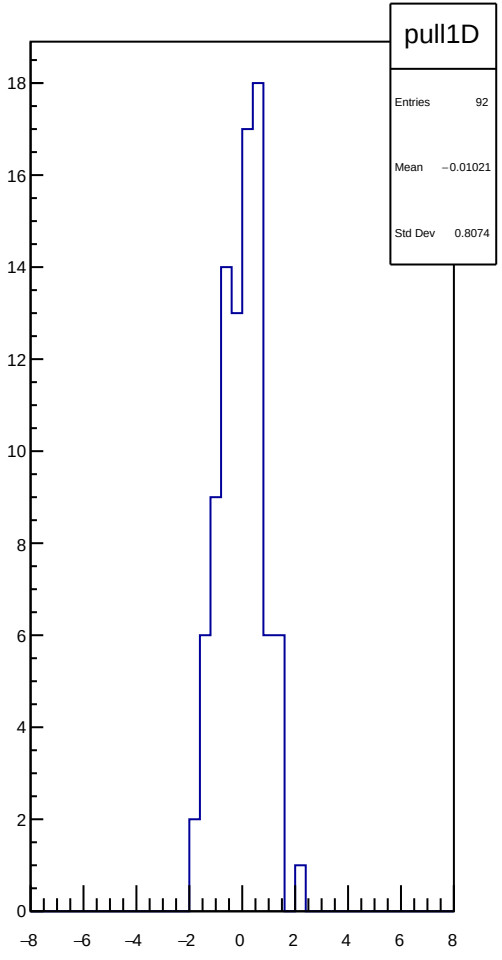

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.977e+05 / 91
p0 2.253e−11 ± 1.988e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

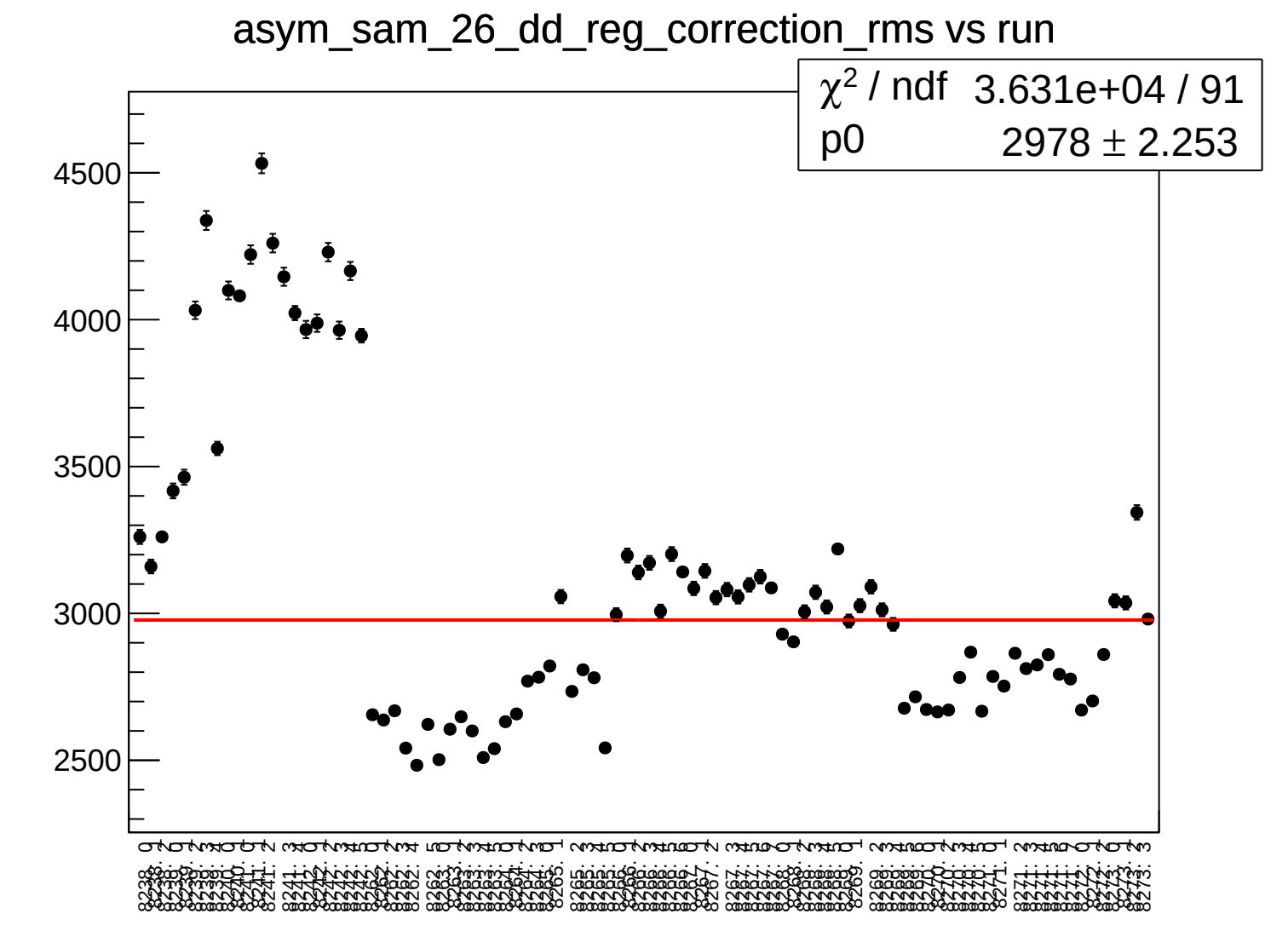

reg_asym_sam_26_dd_mean vs run
χ² / ndf 102 / 91
p0 −101.7 ± 182.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −84.32
Std Dev 0
3
2
1
0
−1
−2

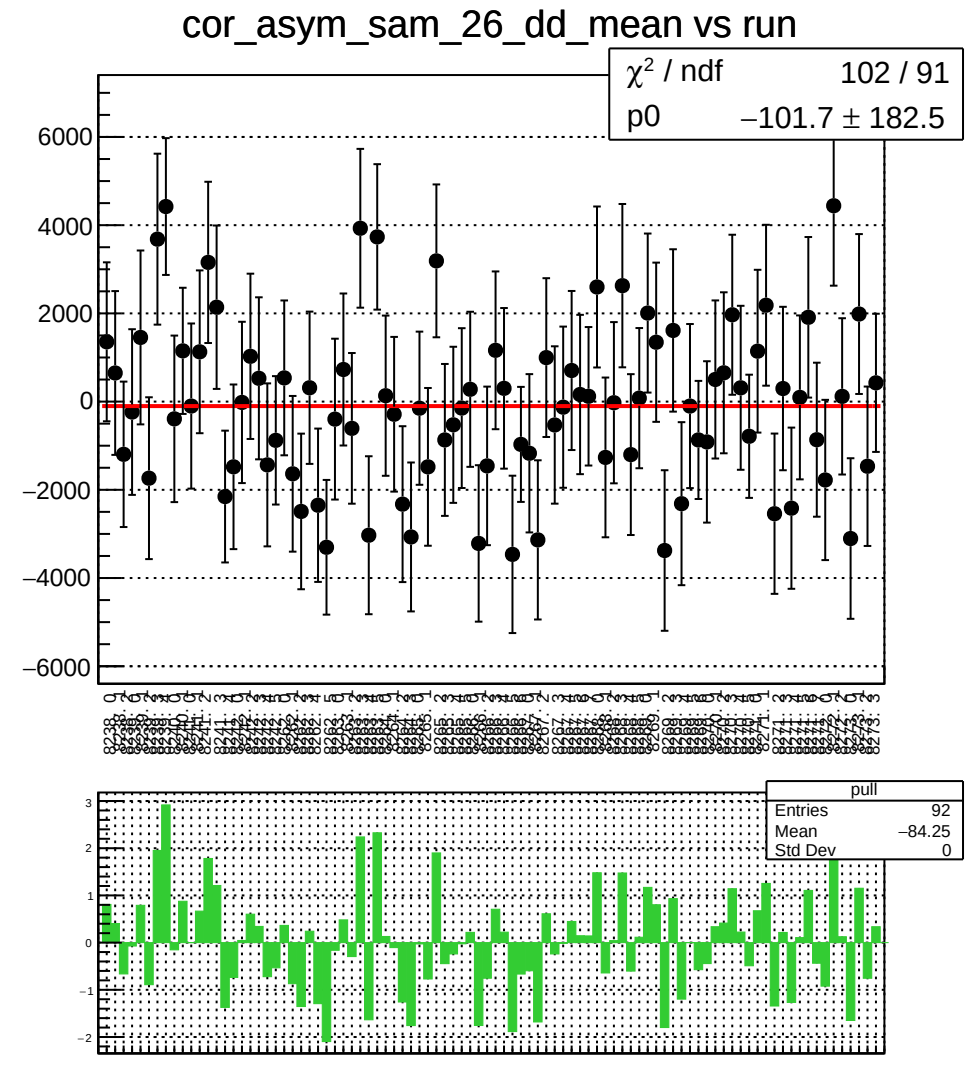

pull1D
Entries 92
Mean 0.01062
Std Dev 1.053
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

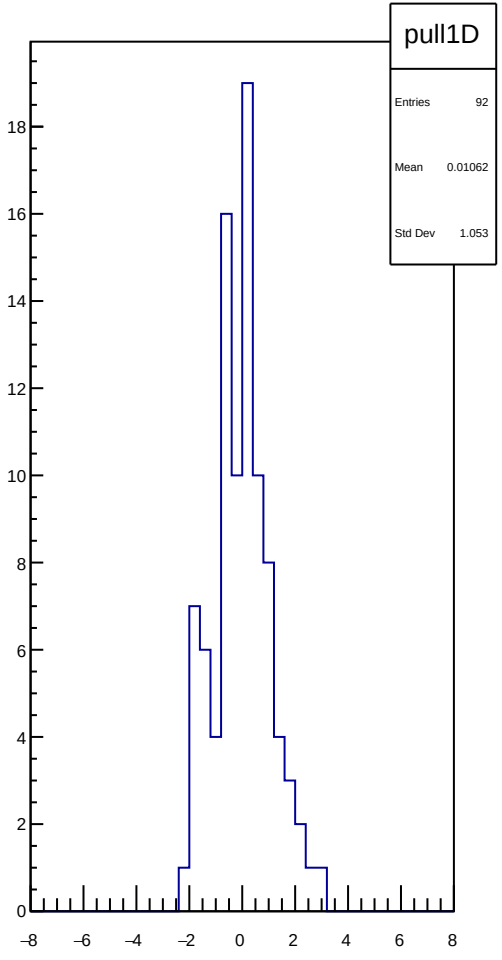

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1311 / 91
p0 172.3 ± 0.1291
195
190
185
180
175
170
165
160

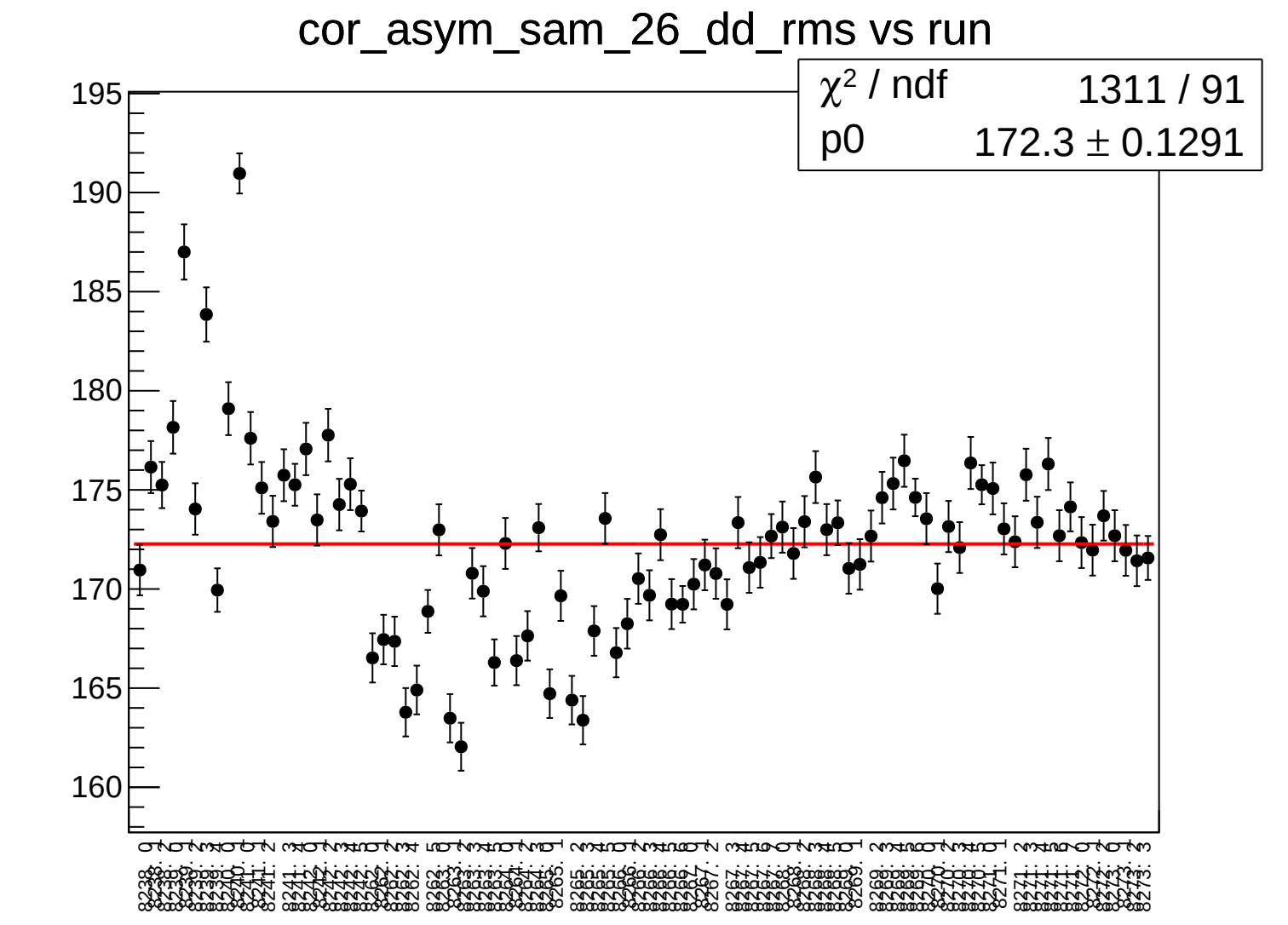

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 59.98 / 91
p0 −1.001e+04 ± 3186
pull
Entries 92
Mean −392.1
Std Dev 0

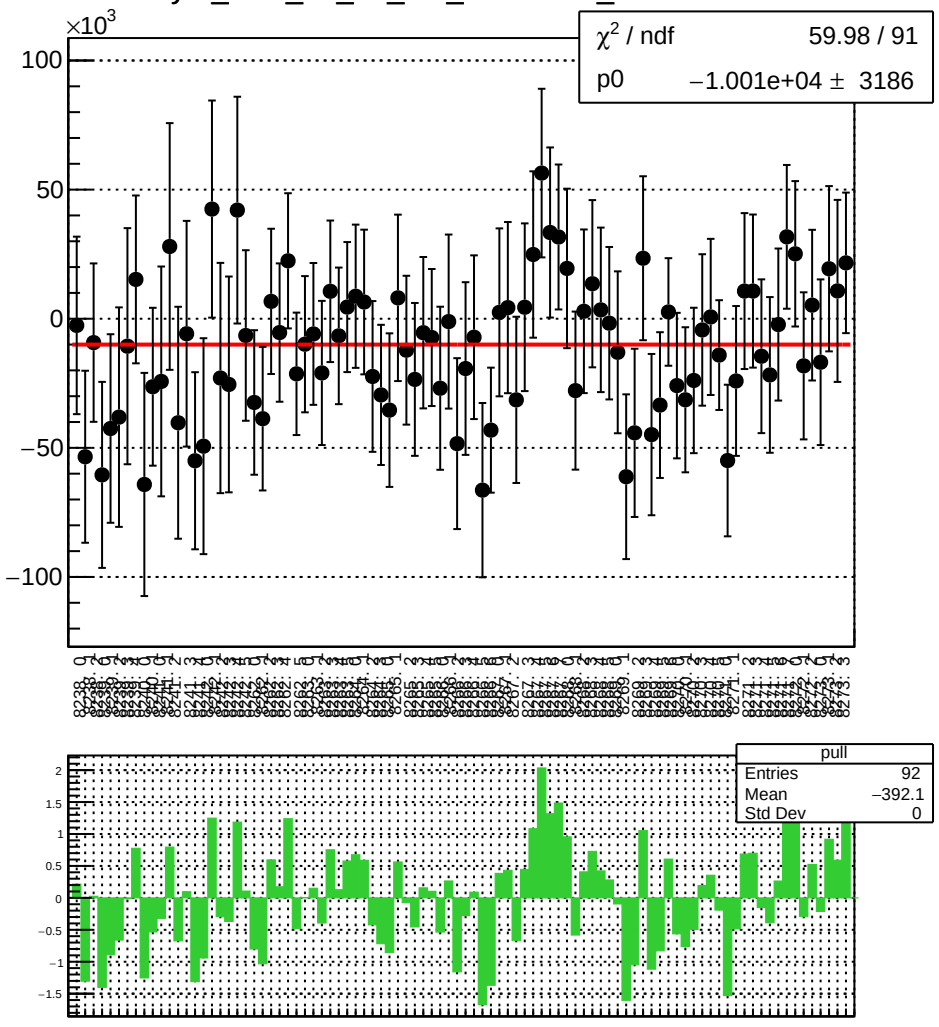

pull1D
Entries 92
Mean −0.01021
Std Dev 0.8074

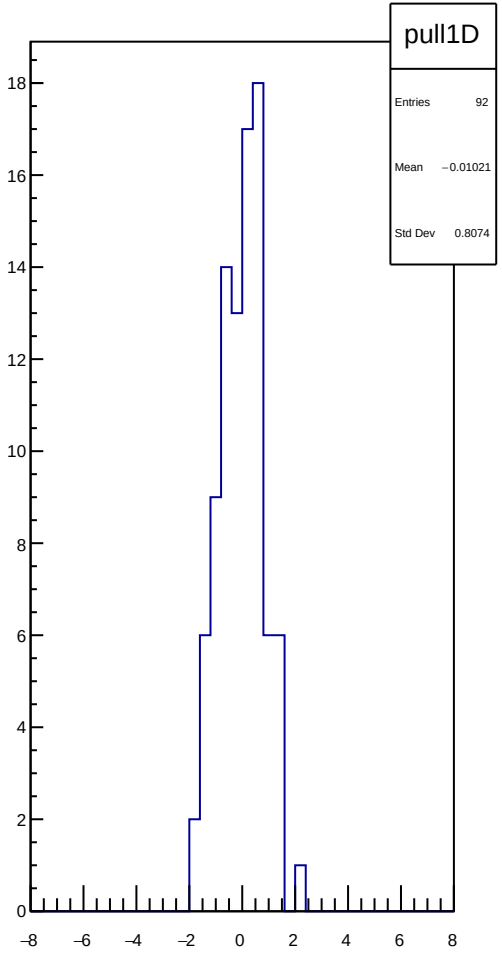

asym_sam_26_dd_reg_correction_rms vs run
$\chi^2$ / ndf 3.631e+04 / 91
p0 2978 ± 2.253
4500
4000
3500
3000
2500

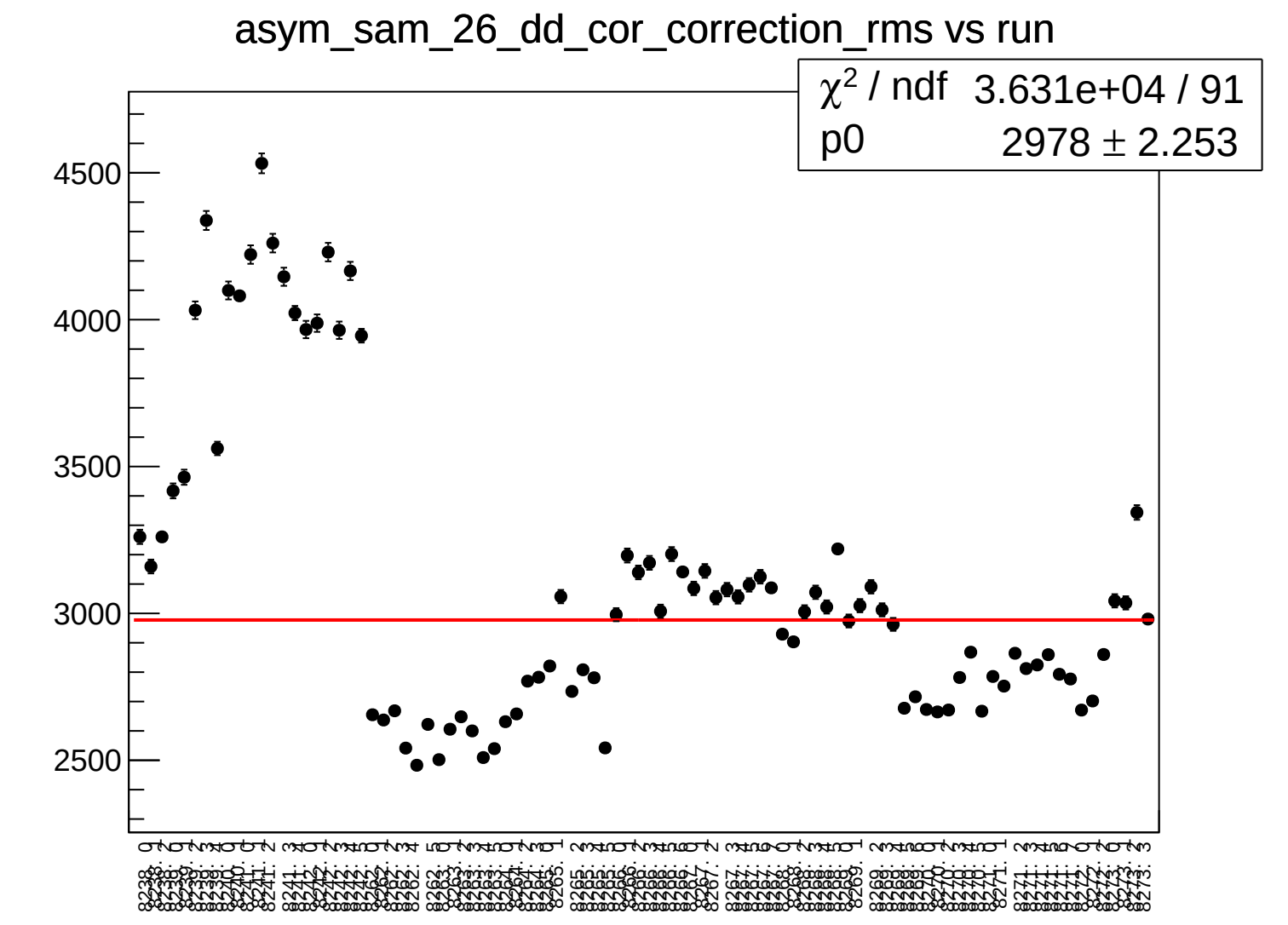

cor_asym_sam_26_dd_mean vs run
χ² / ndf 102 / 91
p0 −101.7 ± 182.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −84.25
Std Dev 0
3
2
1
0
−1
−2

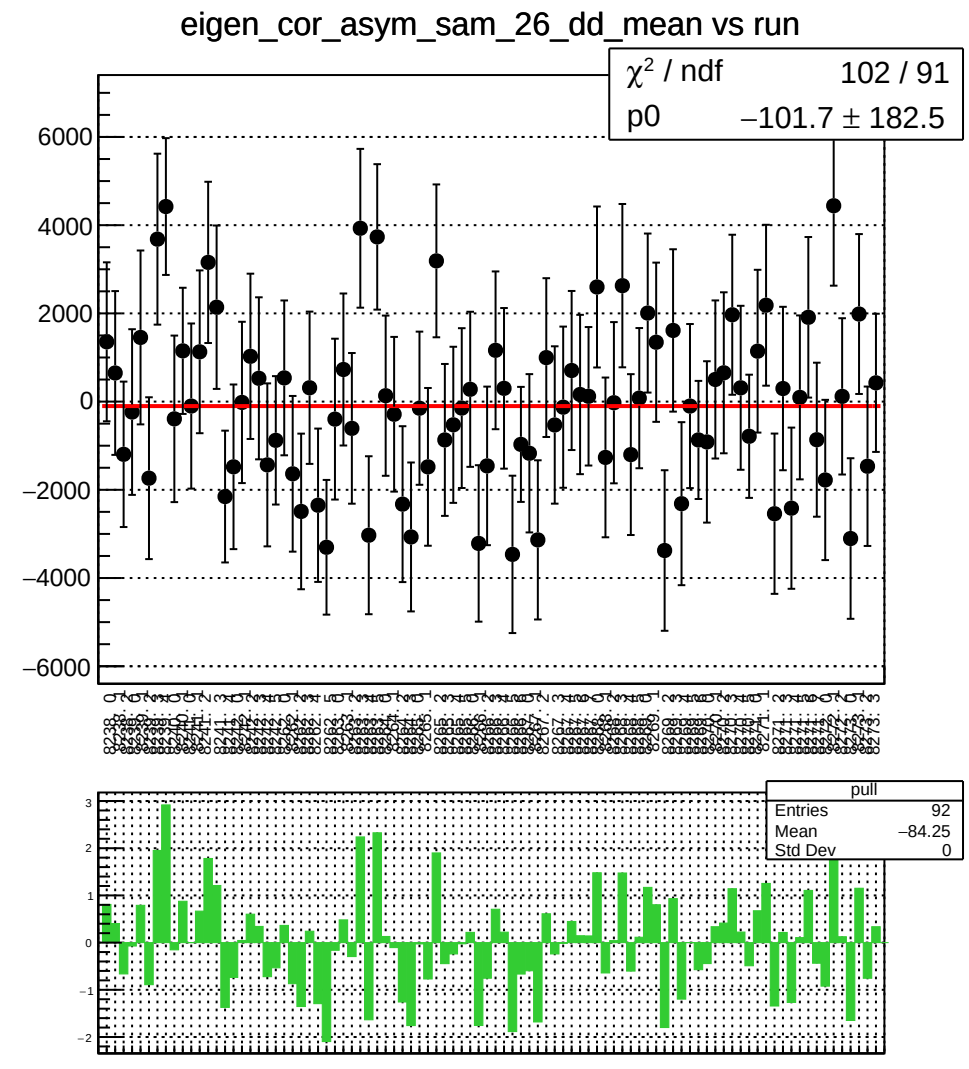

pull1D
Entries 92
Mean 0.01062
Std Dev 1.053
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

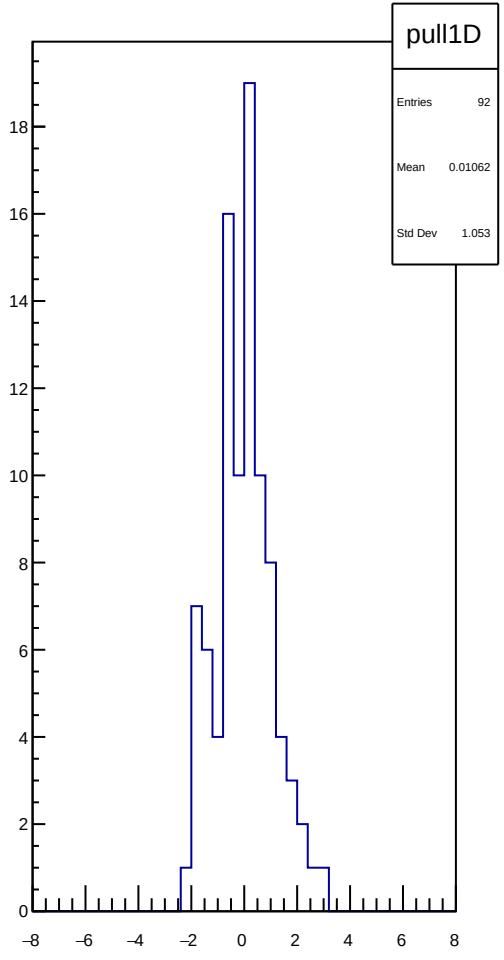

cor_asym_sam_26_dd_rms vs run
χ² / ndf 1311 / 91
p0 172.3 ± 0.1291
195
190
185
180
175
170
165
160

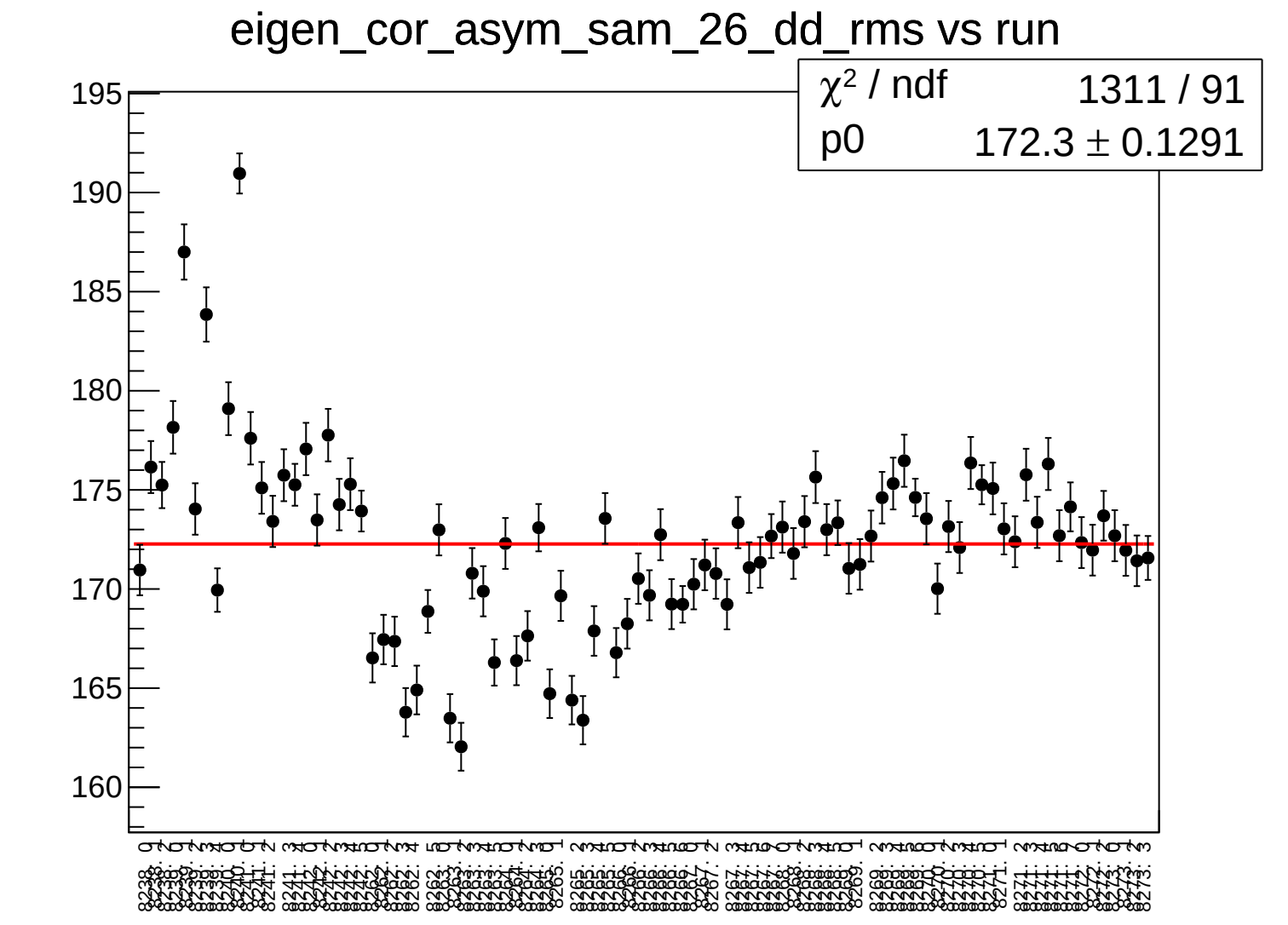

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 59.98 / 91
p0 −1.001e+04 ± 3186
pull
Entries 92
Mean −392.1
Std Dev 0

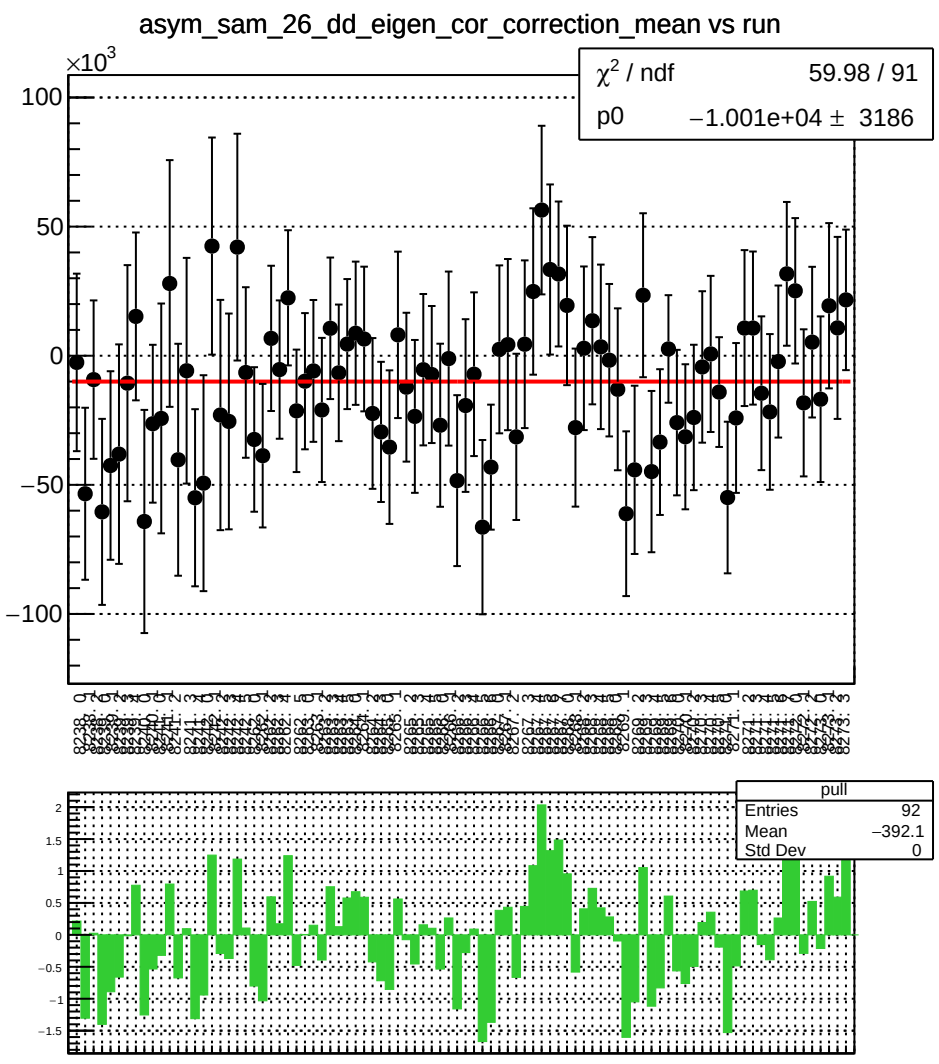

pull1D
Entries 92
Mean −0.01021
Std Dev 0.8074

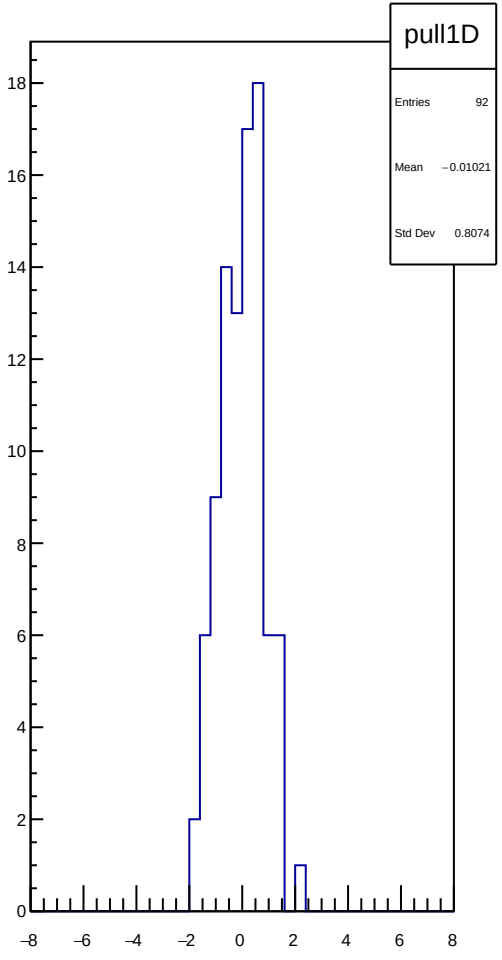

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 3.631e+04 / 91
p0 2978 ± 2.253
4500
4000
3500
3000
2500

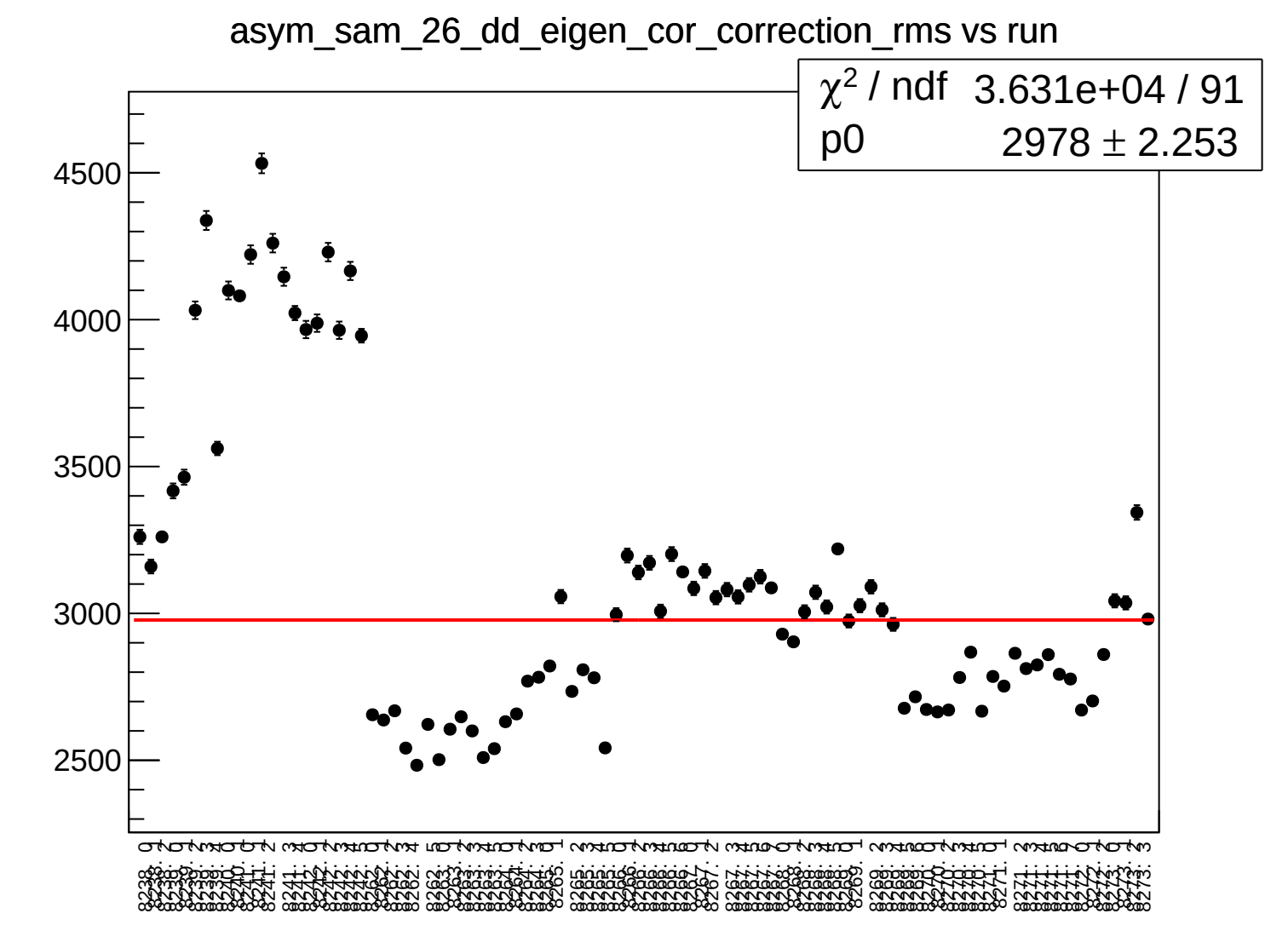

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 102 / 91
p0 −101.7 ± 182.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −84.25
Std Dev 0
3
2
1
0
−1
−2

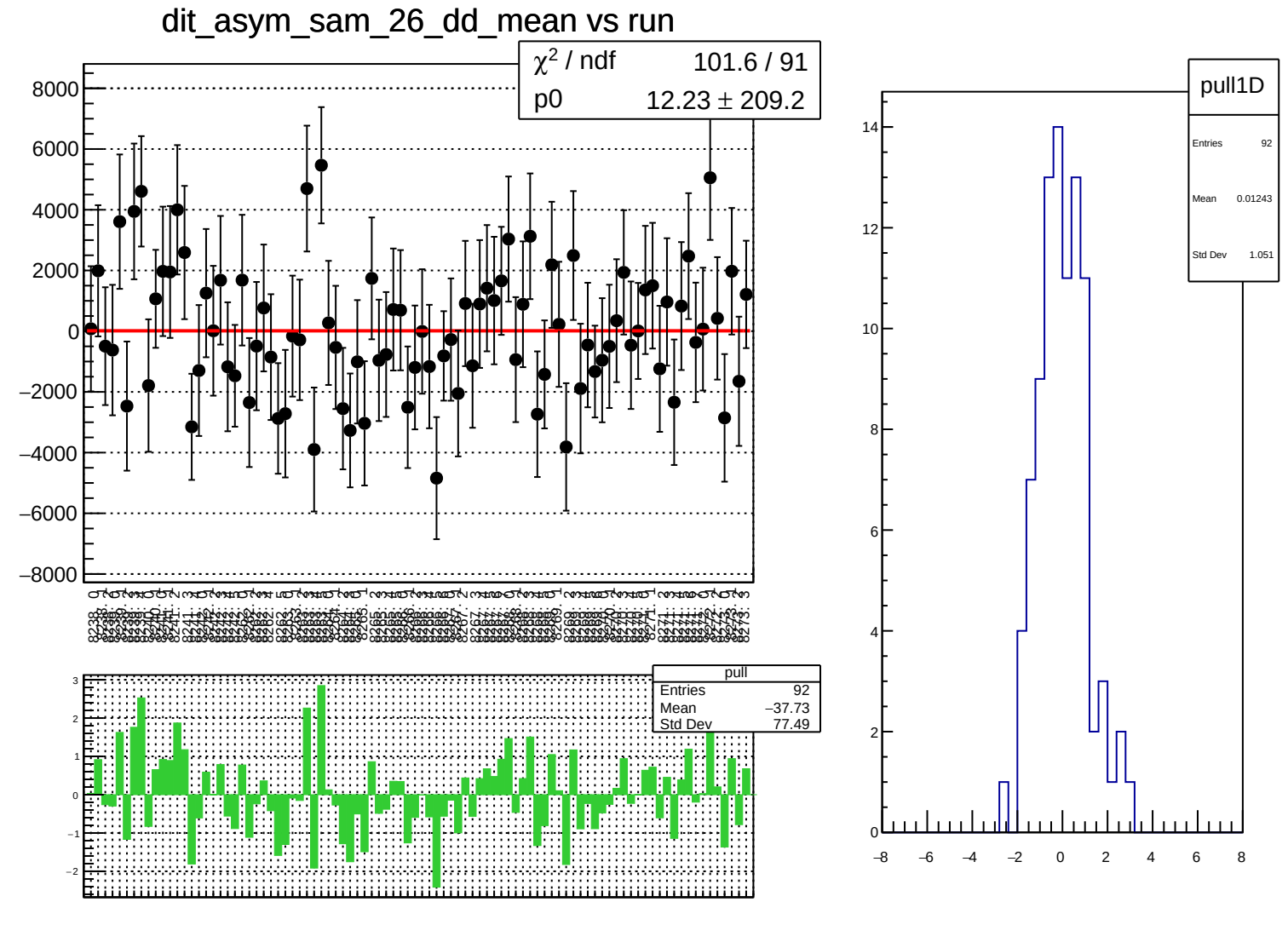

pull1D
Entries 92
Mean 0.01062
Std Dev 1.053
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

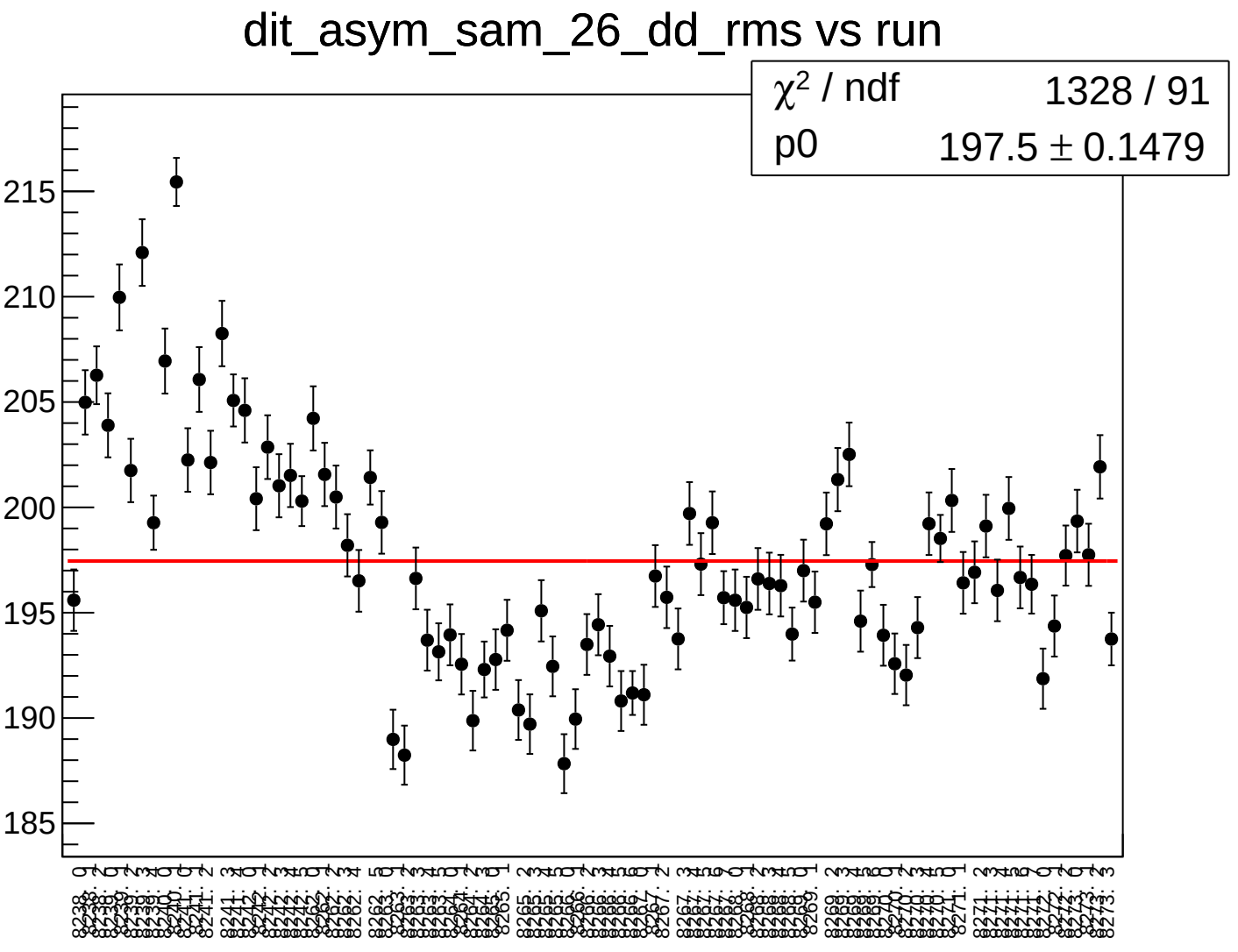

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 1311 / 91
p0 172.3 ± 0.1291
195
190
185
180
175
170
165
160

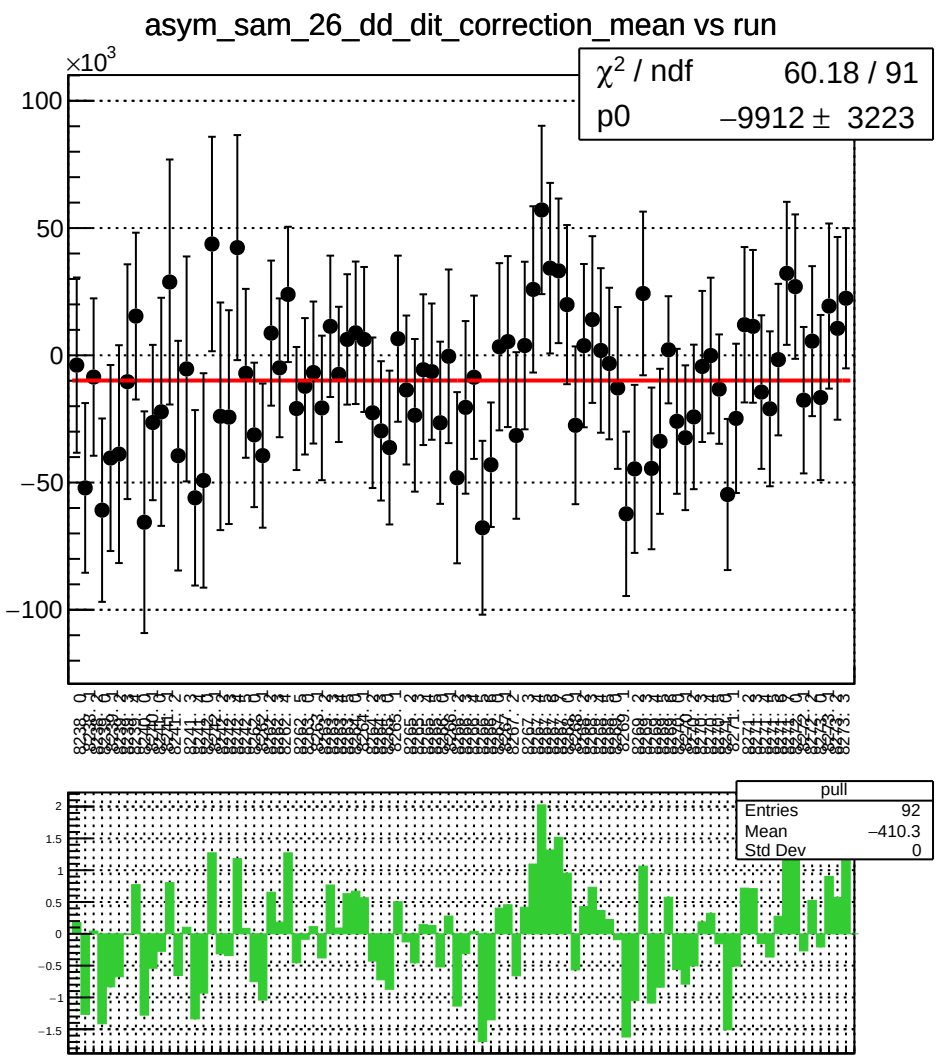

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 59.98 / 91
p0 −1.001e+04 ± 3186
pull
Entries 92
Mean −392.1
Std Dev 0

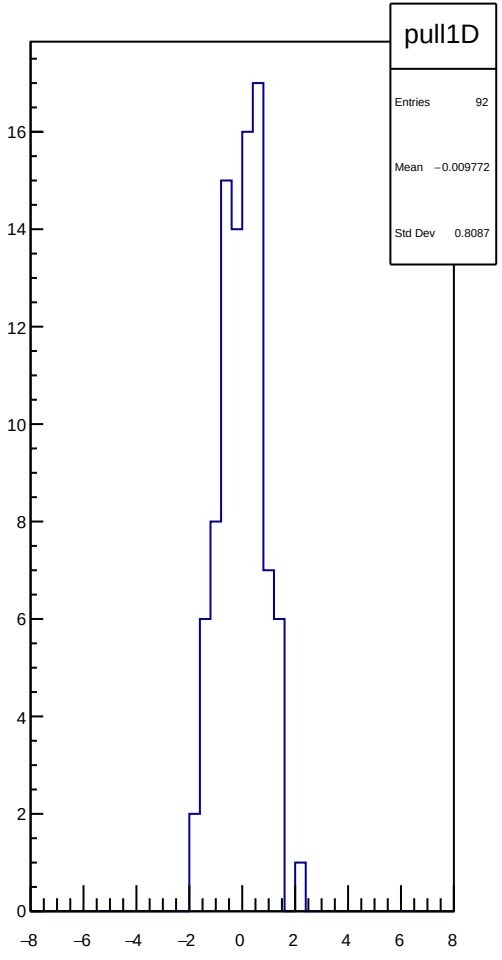

pull1D
Entries 92
Mean −0.01021
Std Dev 0.8074

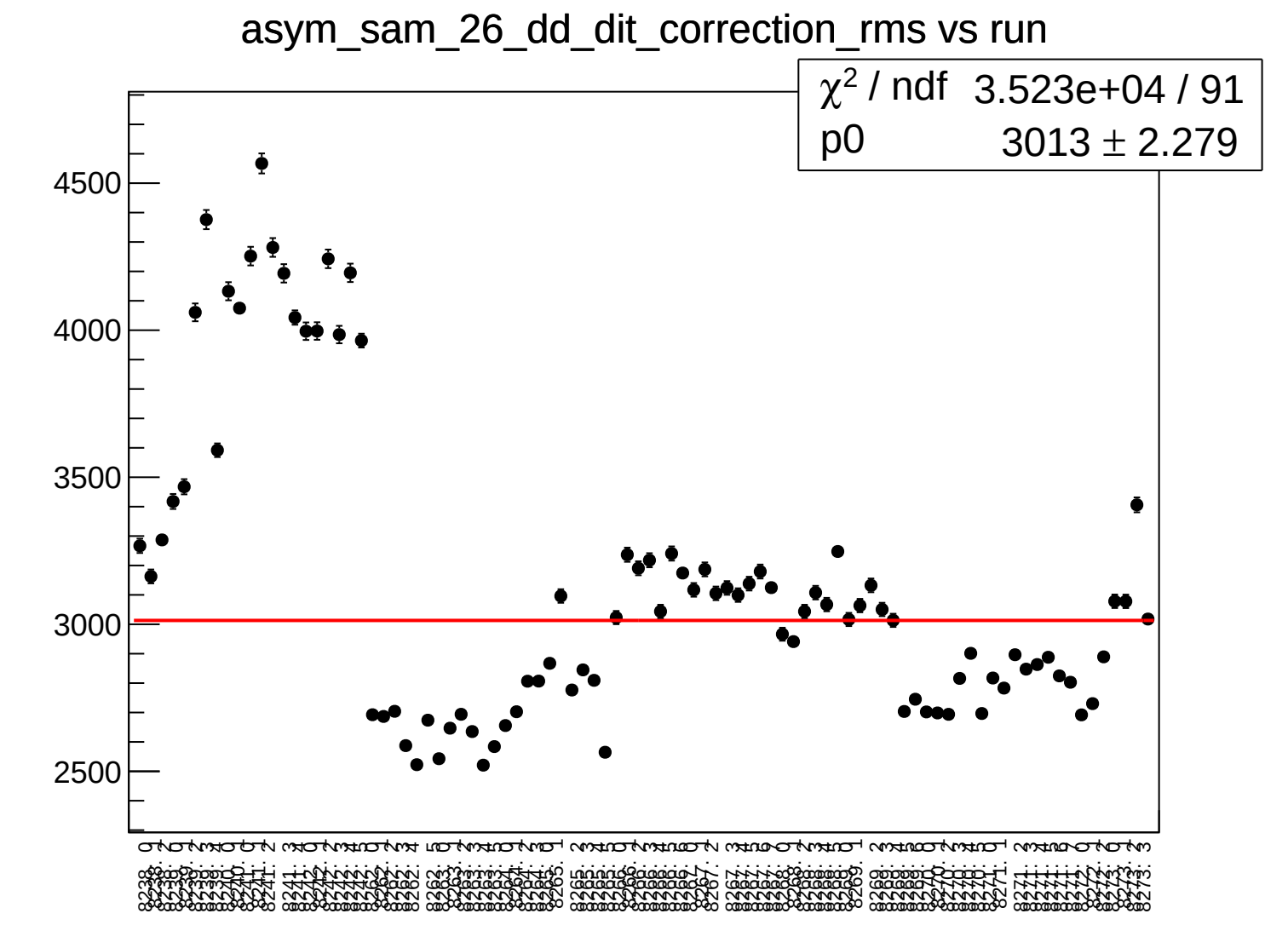

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.631e+04 / 91
p0 2978 ± 2.253
4500
4000
3500
3000
2500

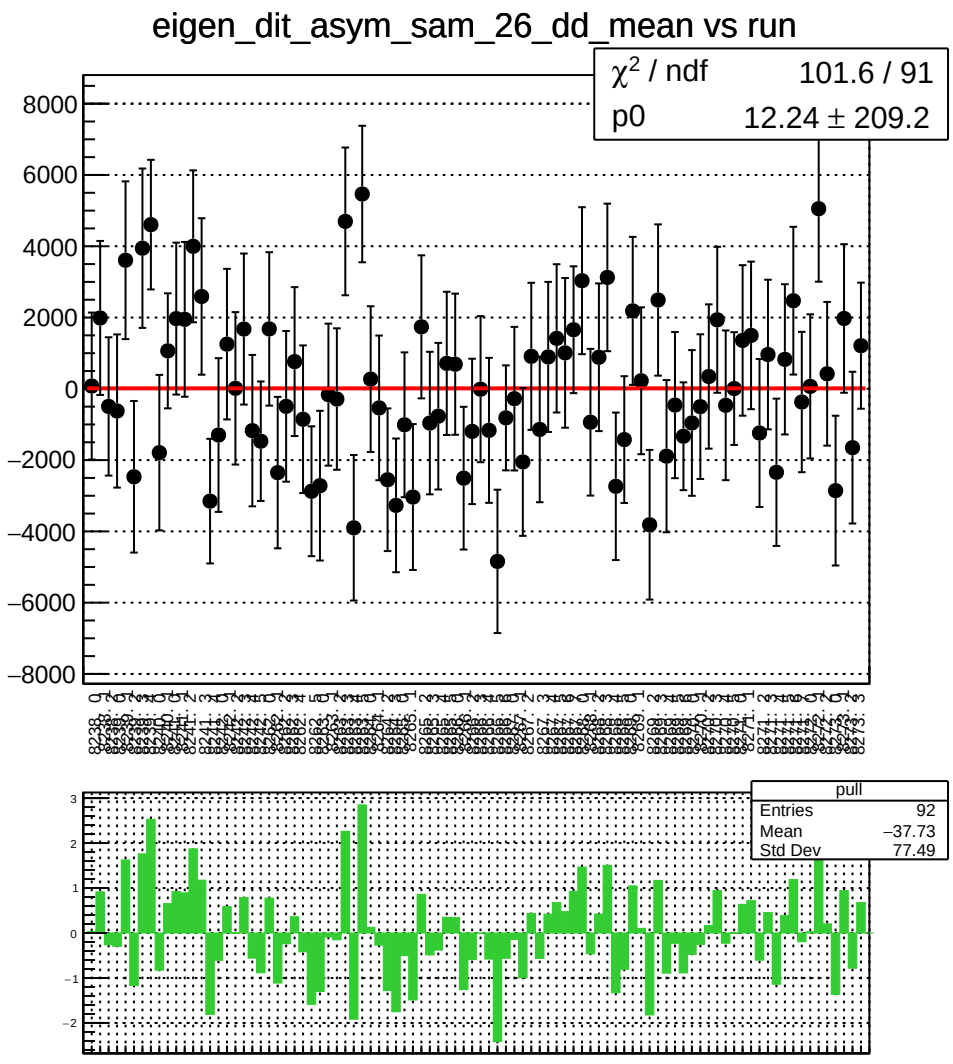

dit_asym_sam_26_dd_mean vs run
χ² / ndf 101.6 / 91
p0 12.23 ± 209.2
pull
Entries 92
Mean −37.73
Std Dev 77.49
pull1D
Entries 92
Mean 0.01243
Std Dev 1.051

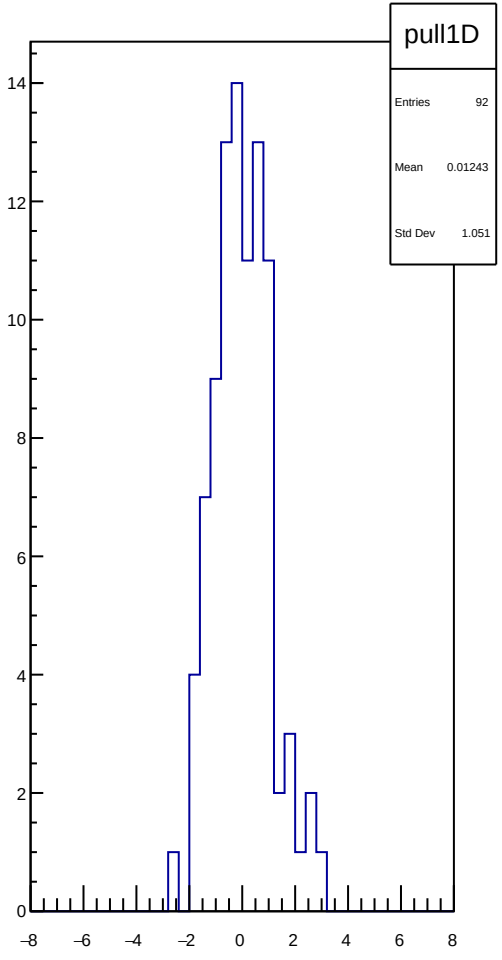

dit_asym_sam_26_dd_rms vs run
χ² / ndf 1328 / 91
p0 197.5 ± 0.1479
215
210
205
200
195
190
185

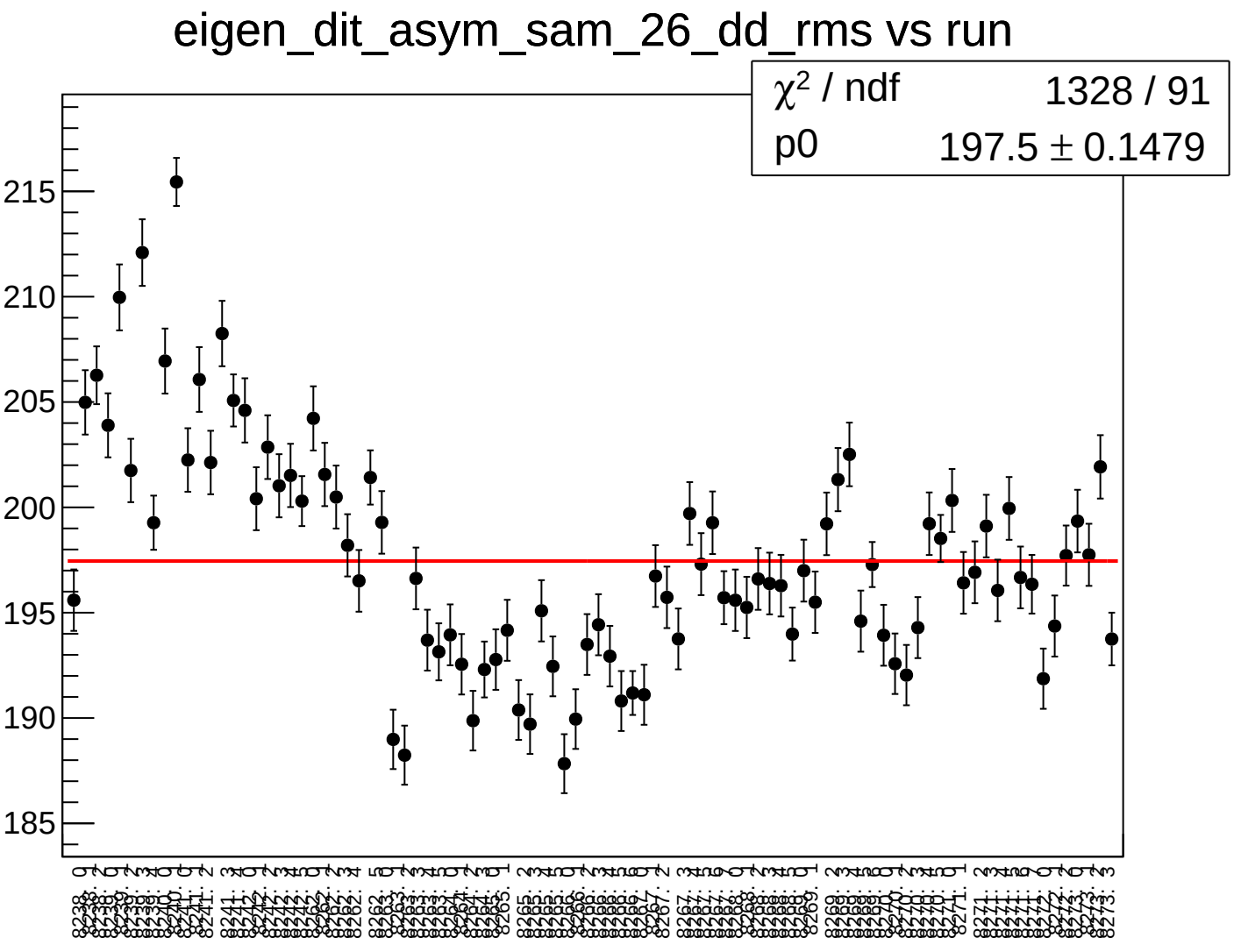

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 60.18 / 91
p0 −9912 ± 3223
100
50
0
−50
−100
pull
Entries 92
Mean −410.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

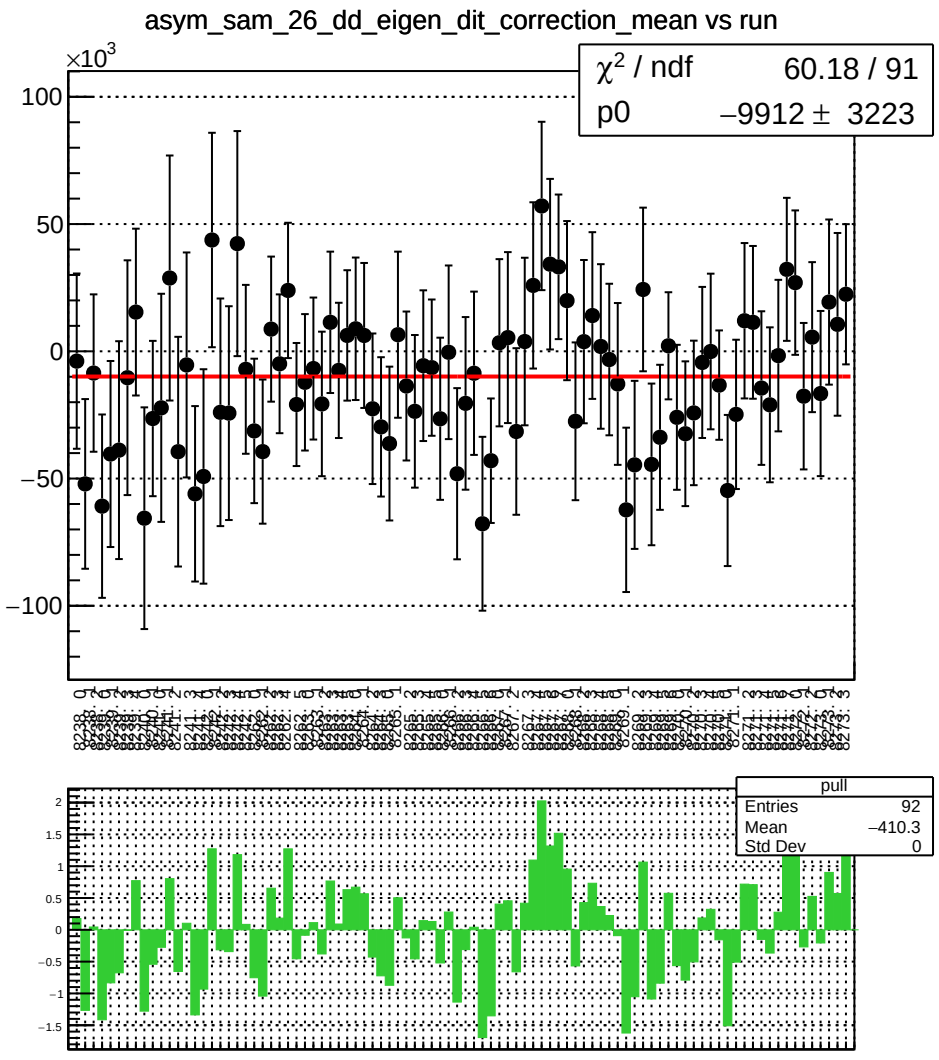

pull1D
Entries 92
Mean −0.009772
Std Dev 0.8087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

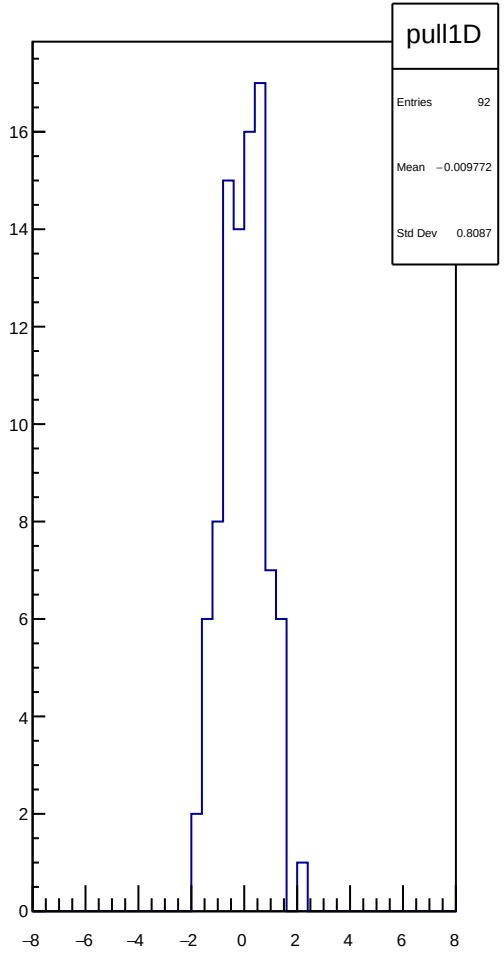

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 3.523e+04 / 91
p0 3013 ± 2.279
4500
4000
3500
3000
2500

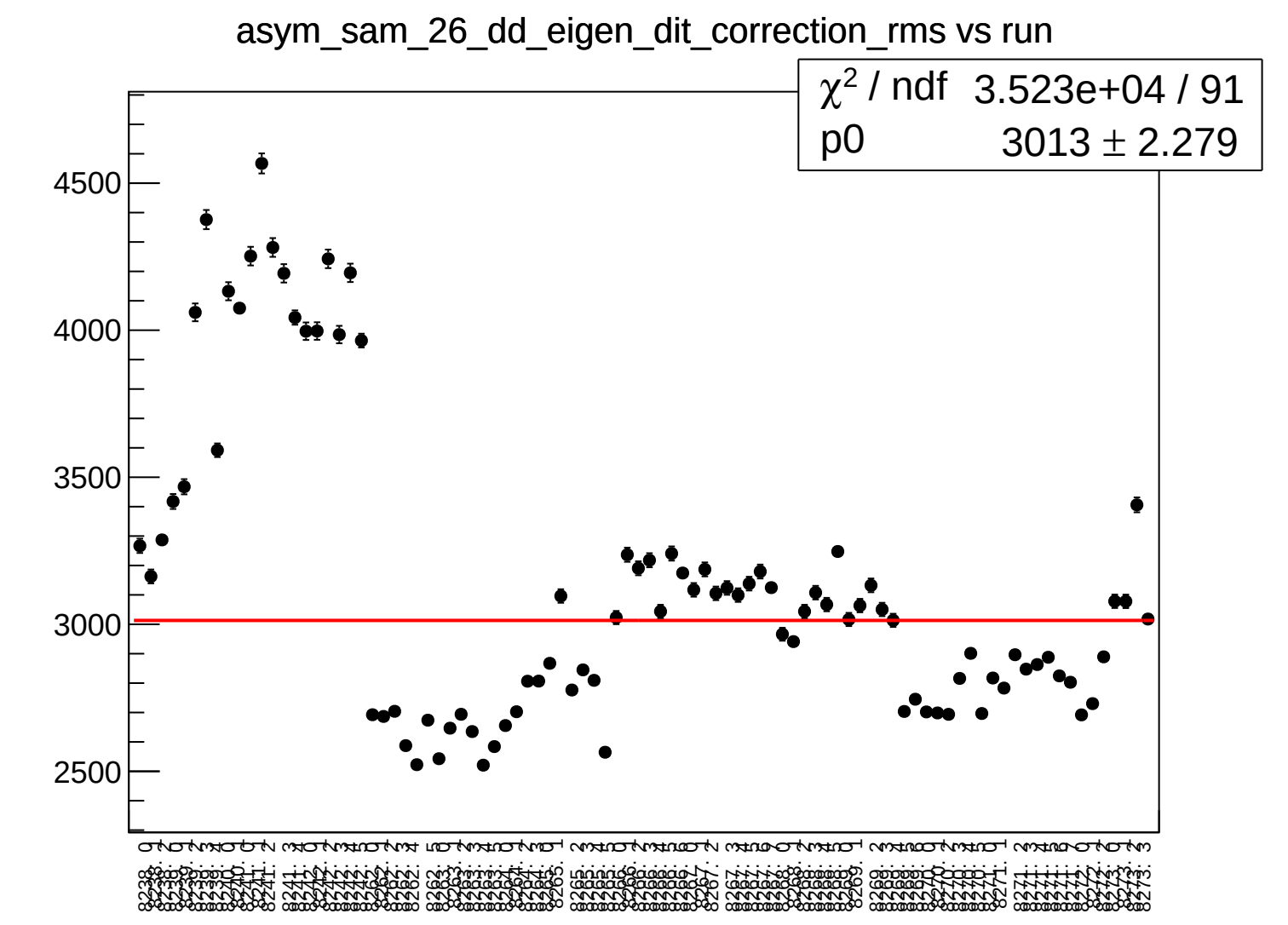

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 101.6 / 91
p0 12.24 ± 209.2
pull
Entries 92
Mean −37.73
Std Dev 77.49

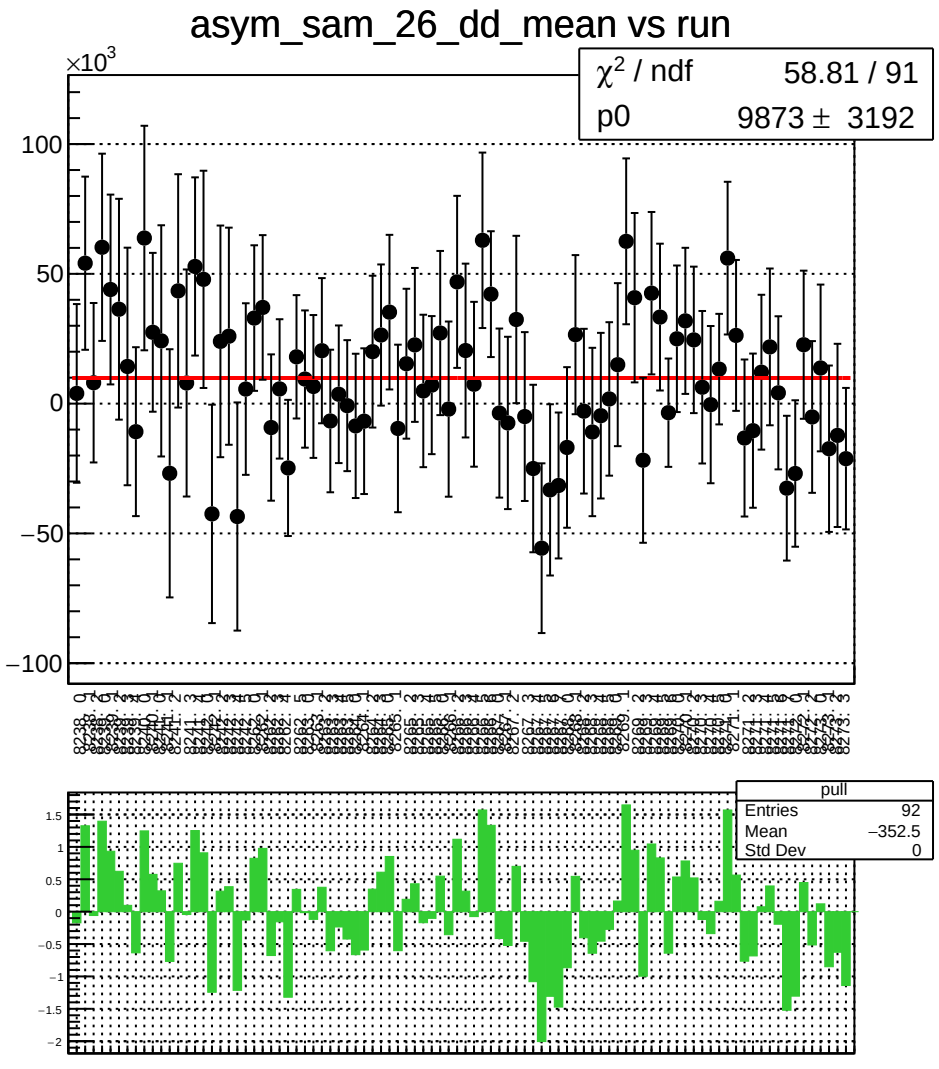

pull1D
Entries 92
Mean 0.01243
Std Dev 1.051

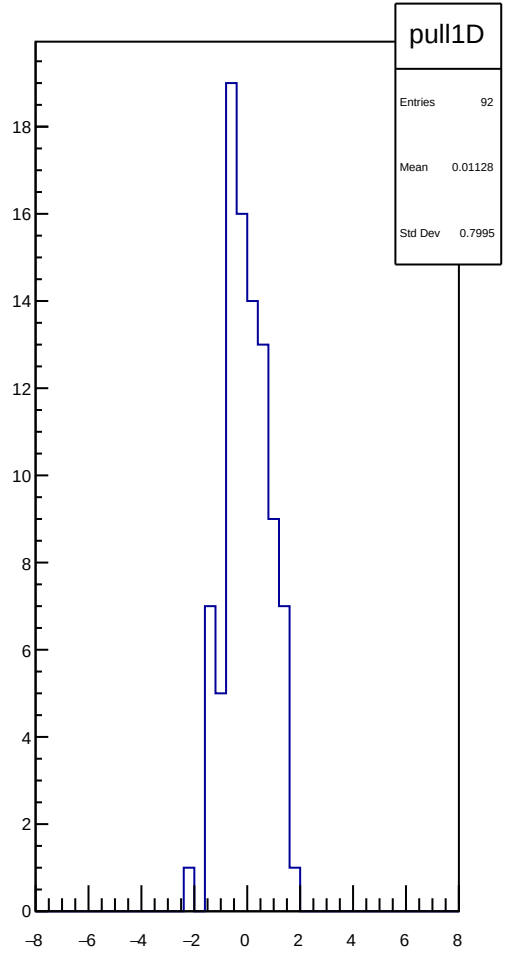

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 1328 / 91
p0 197.5 ± 0.1479
215
210
205
200
195
190
185

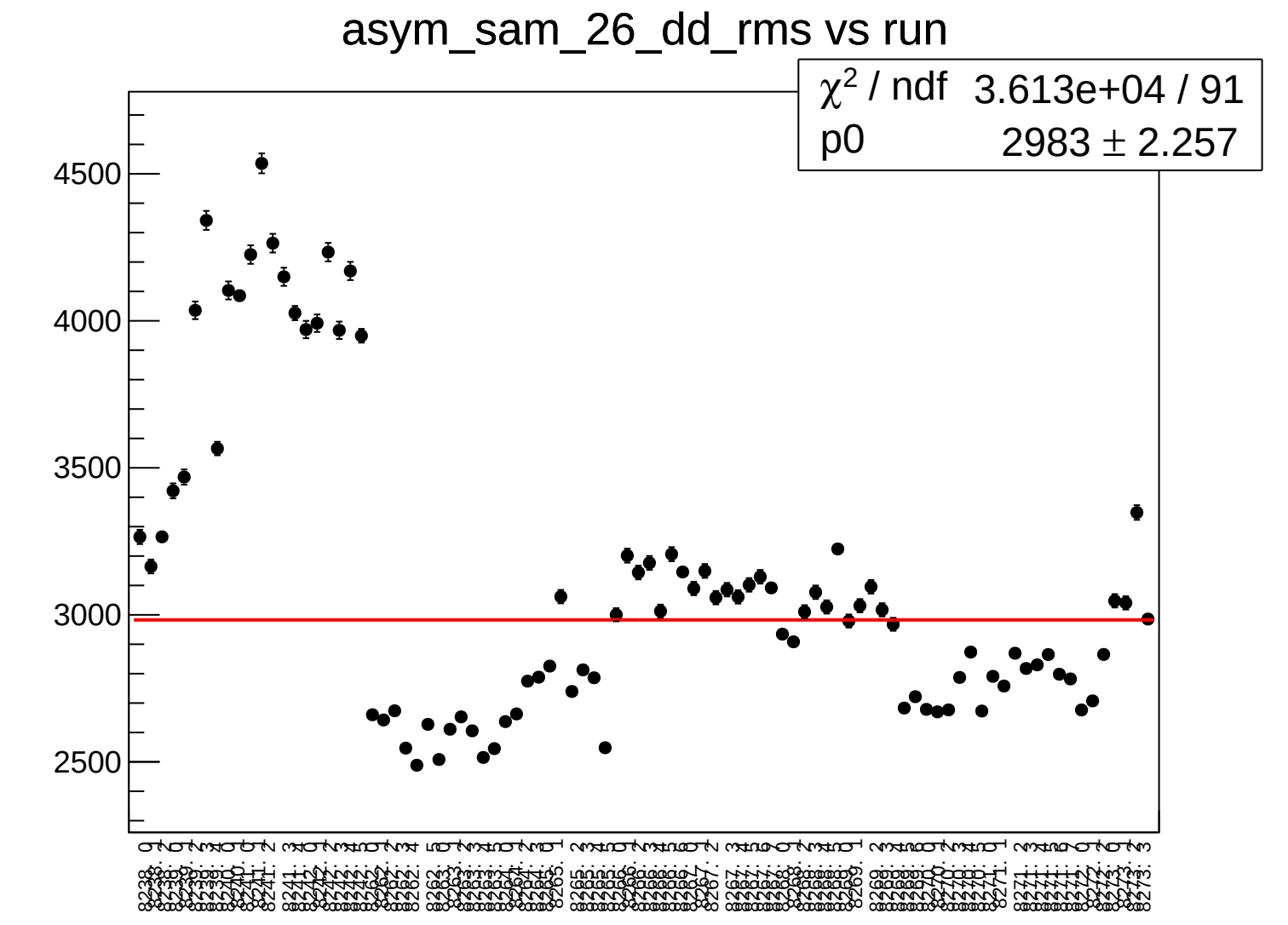

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 60.18 / 91
p0 −9912 ± 3223
100
50
0
−50
−100
pull
Entries 92
Mean −410.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

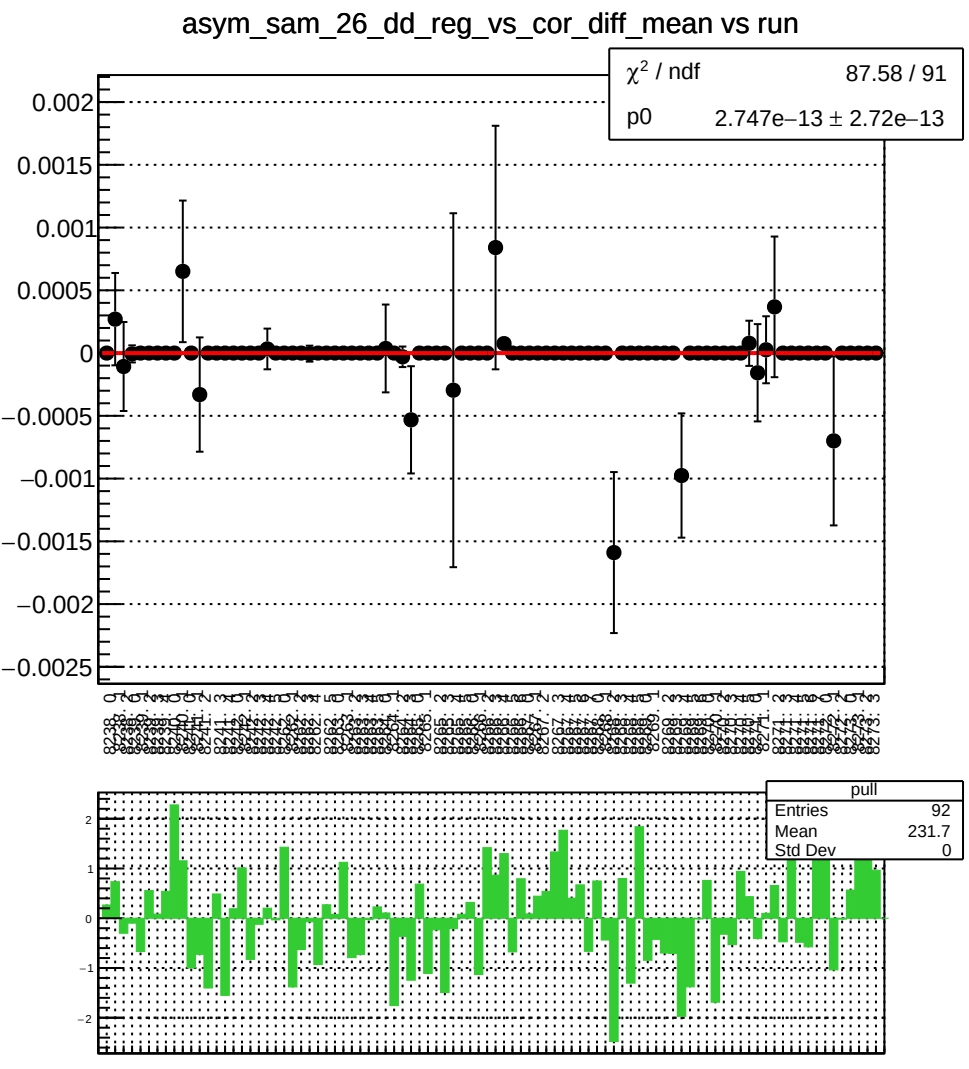

pull1D
Entries 92
Mean −0.009772
Std Dev 0.8087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

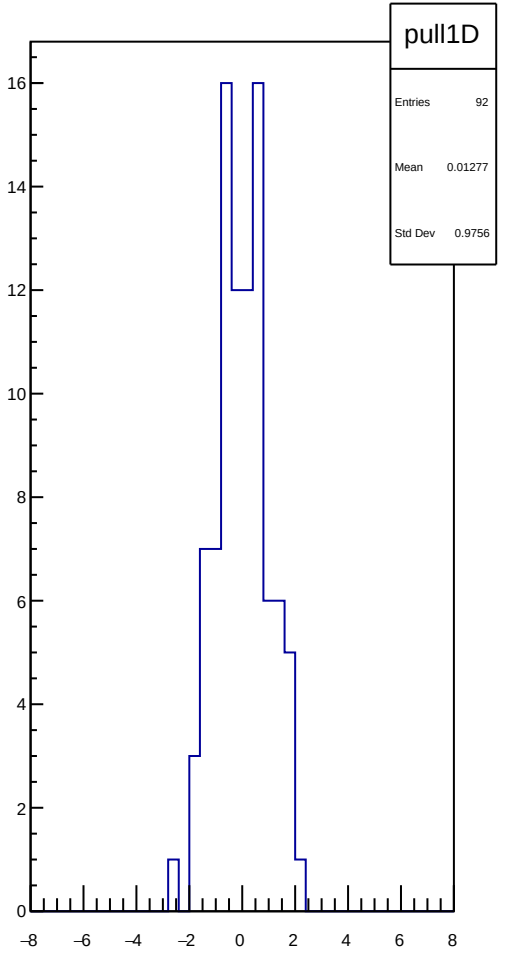

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.523e+04 / 91
p0 3013 ± 2.279
4500
4000
3500
3000
2500

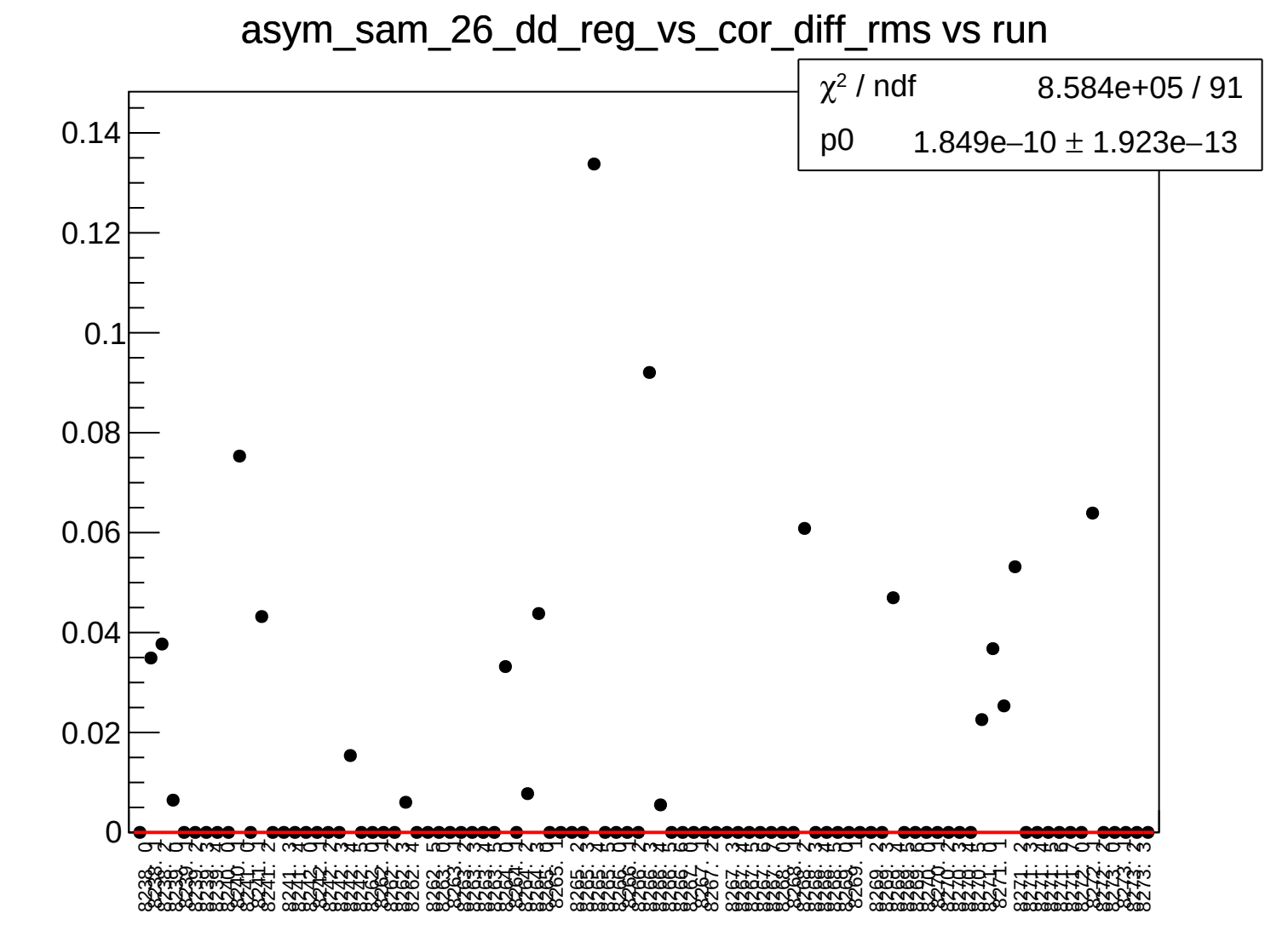

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 58.81 / 91
p0 9873 ± 3192
100
50
0
−50
−100
pull
Entries 92
Mean −352.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

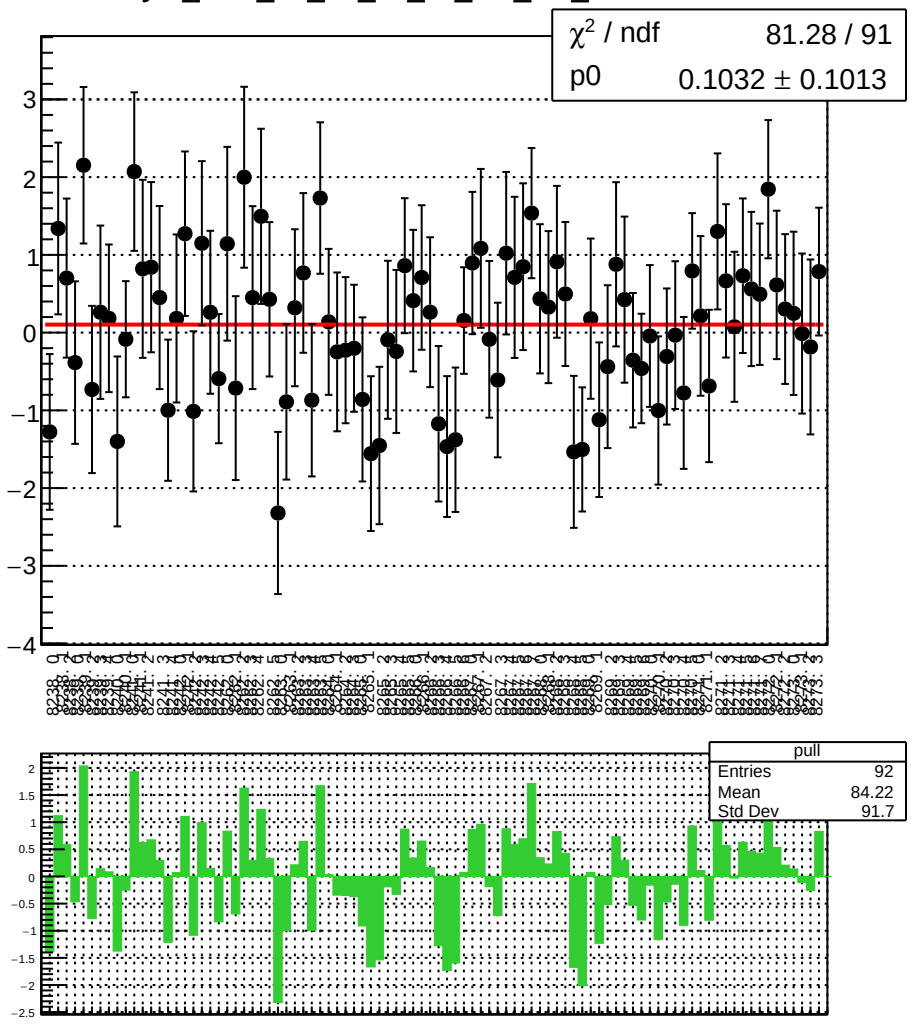

pull1D
Entries 92
Mean 0.01128
Std Dev 0.7995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

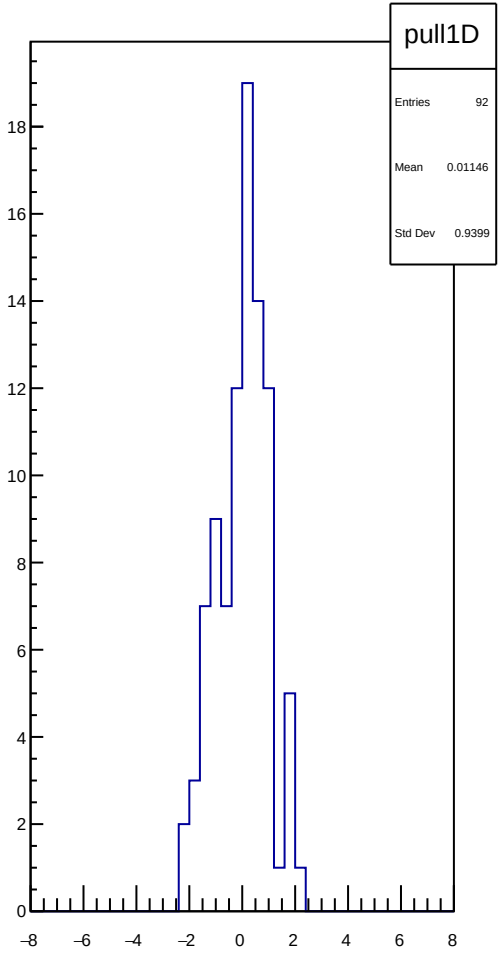

asym_sam_26_dd_rms vs run
χ² / ndf 3.613e+04 / 91
p0 2983 ± 2.257
4500
4000
3500
3000
2500

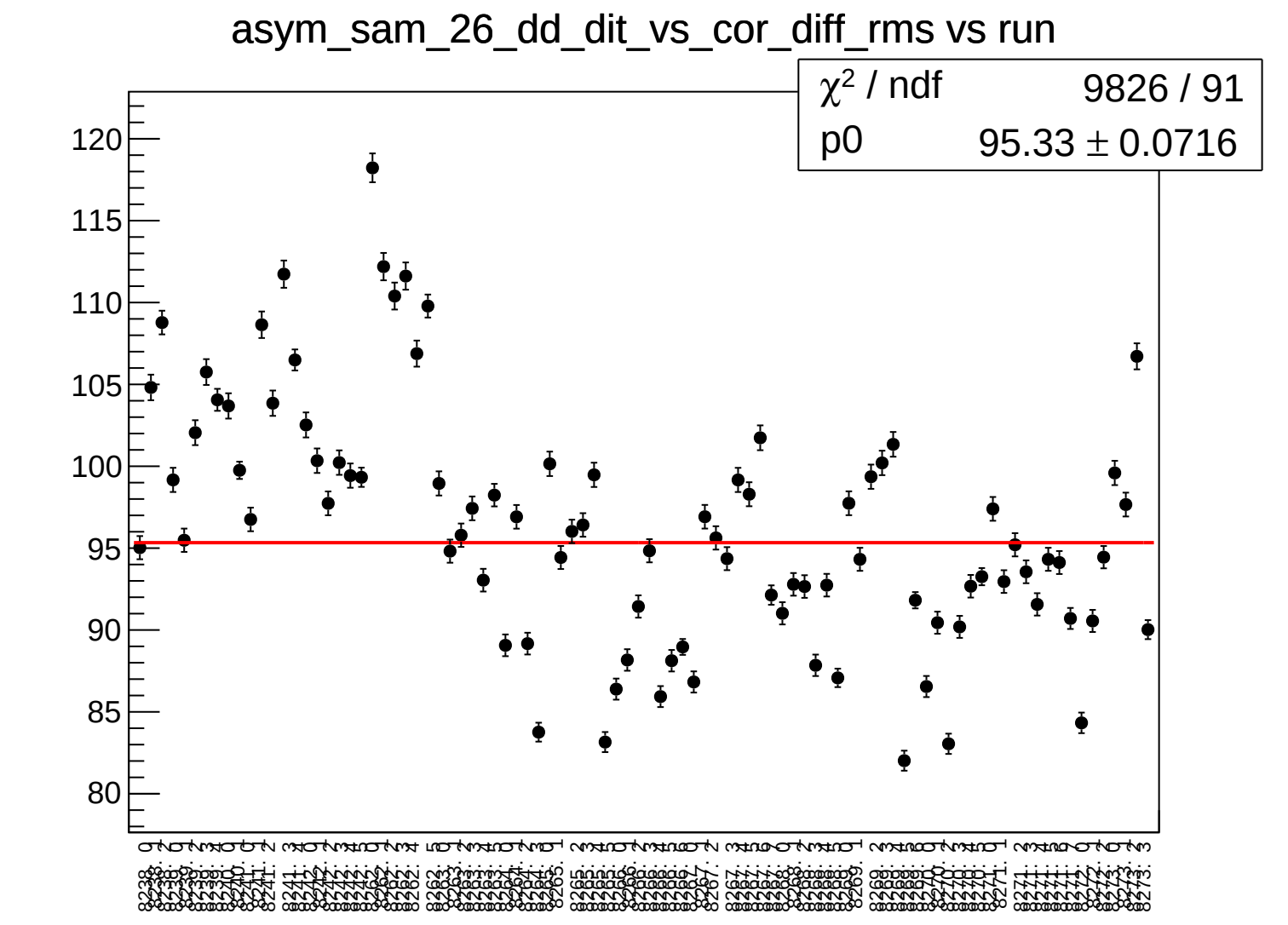

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.58 / 91
p0 2.747e−13 ± 2.72e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 92
Mean 231.7
Std Dev 0
2
1
0
−1
−2

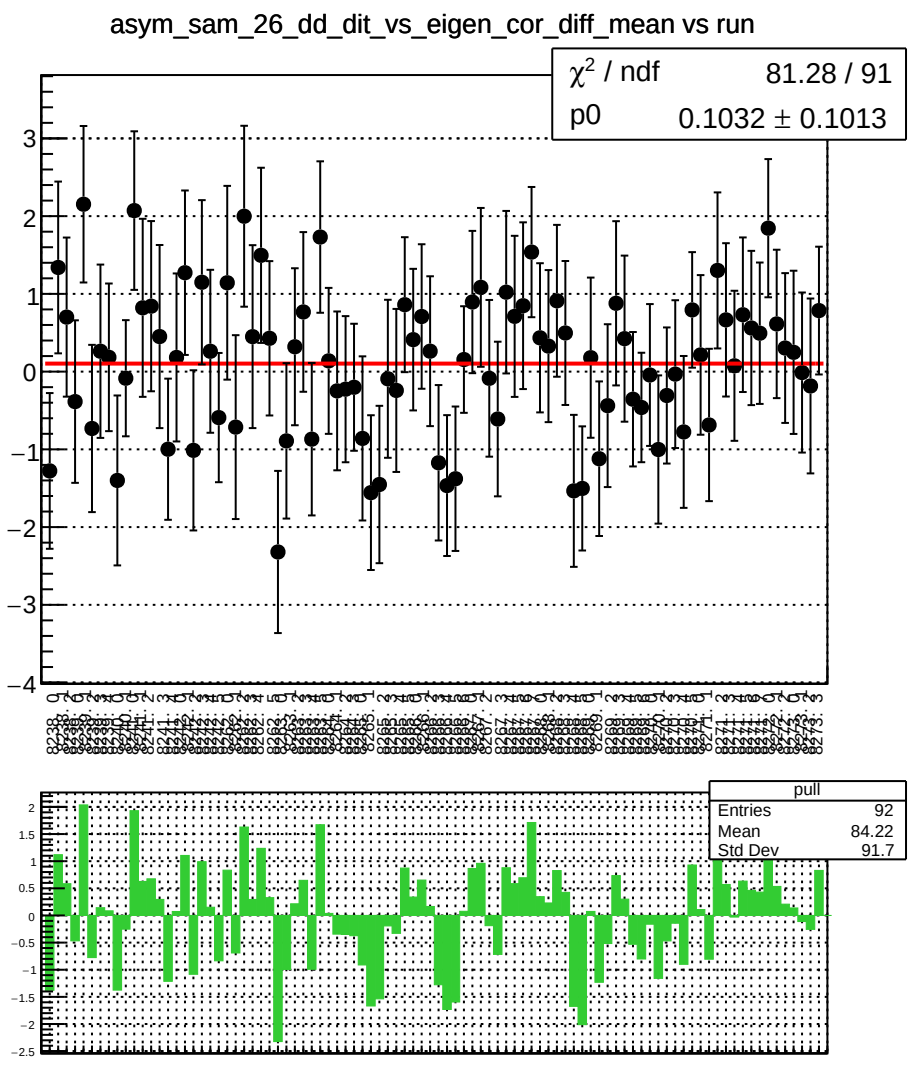

pull1D
Entries 92
Mean 0.01277
Std Dev 0.9756
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

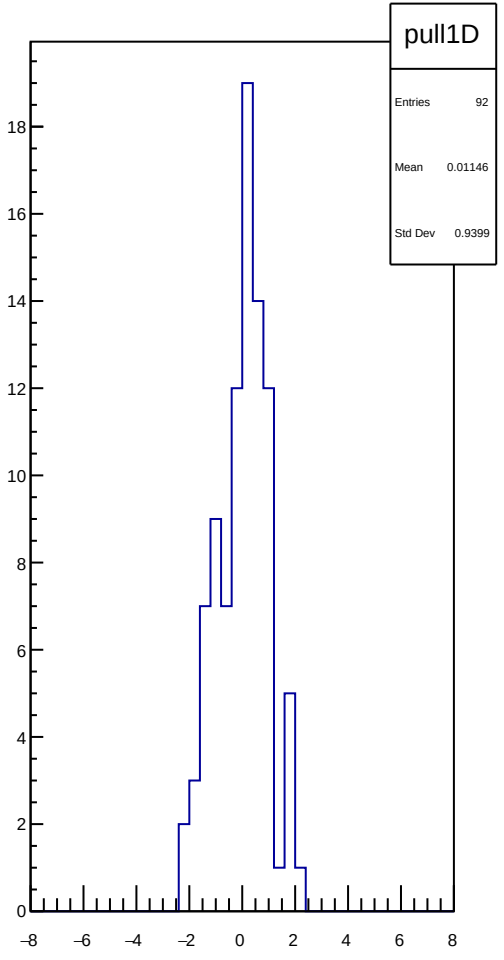

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.584e+05 / 91
p0 1.849e−10 ± 1.923e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

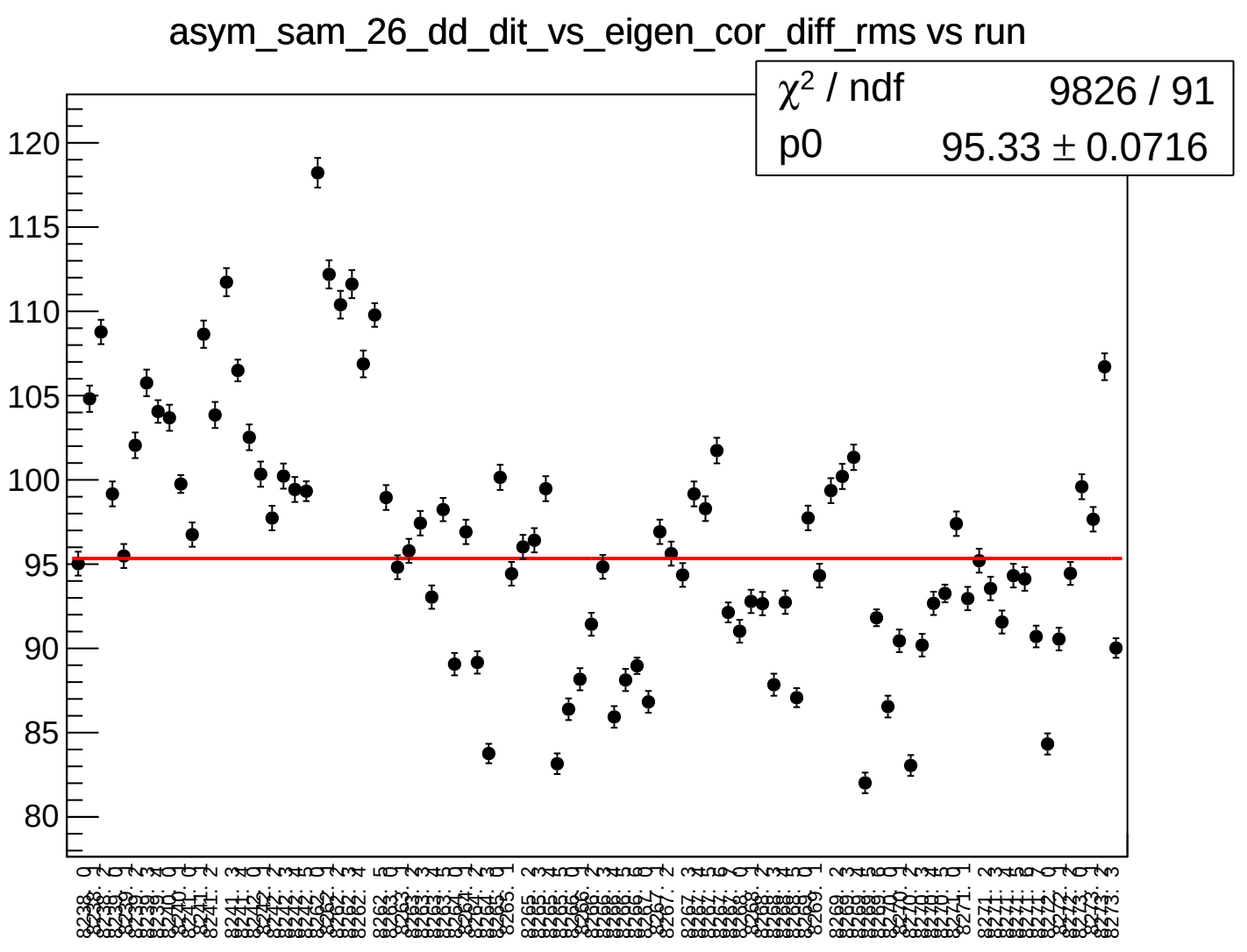

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.28 / 91
p0 0.1032 ± 0.1013
pull
Entries 92
Mean 84.22
Std Dev 91.7

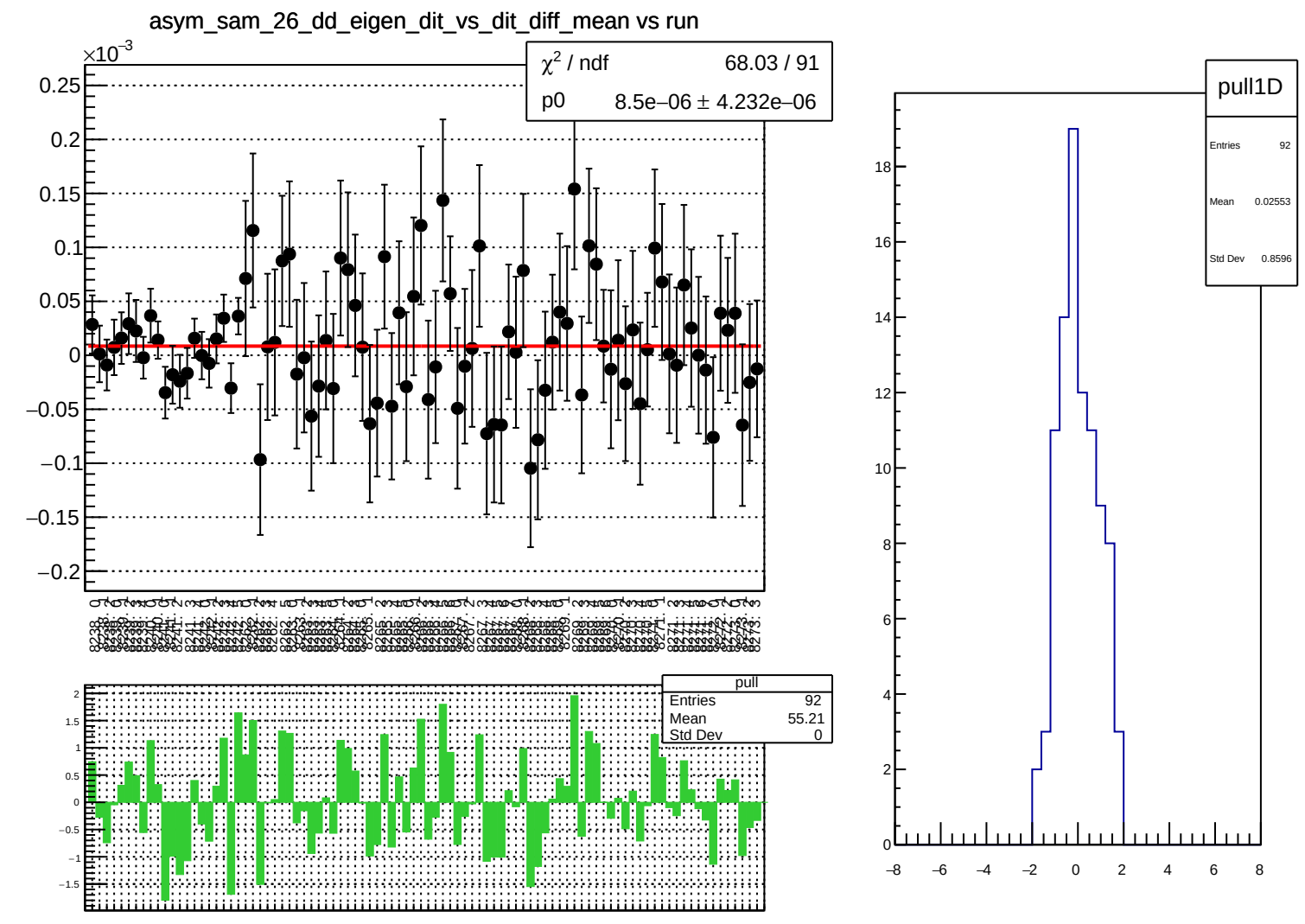

pull1D
Entries 92
Mean 0.01146
Std Dev 0.9399

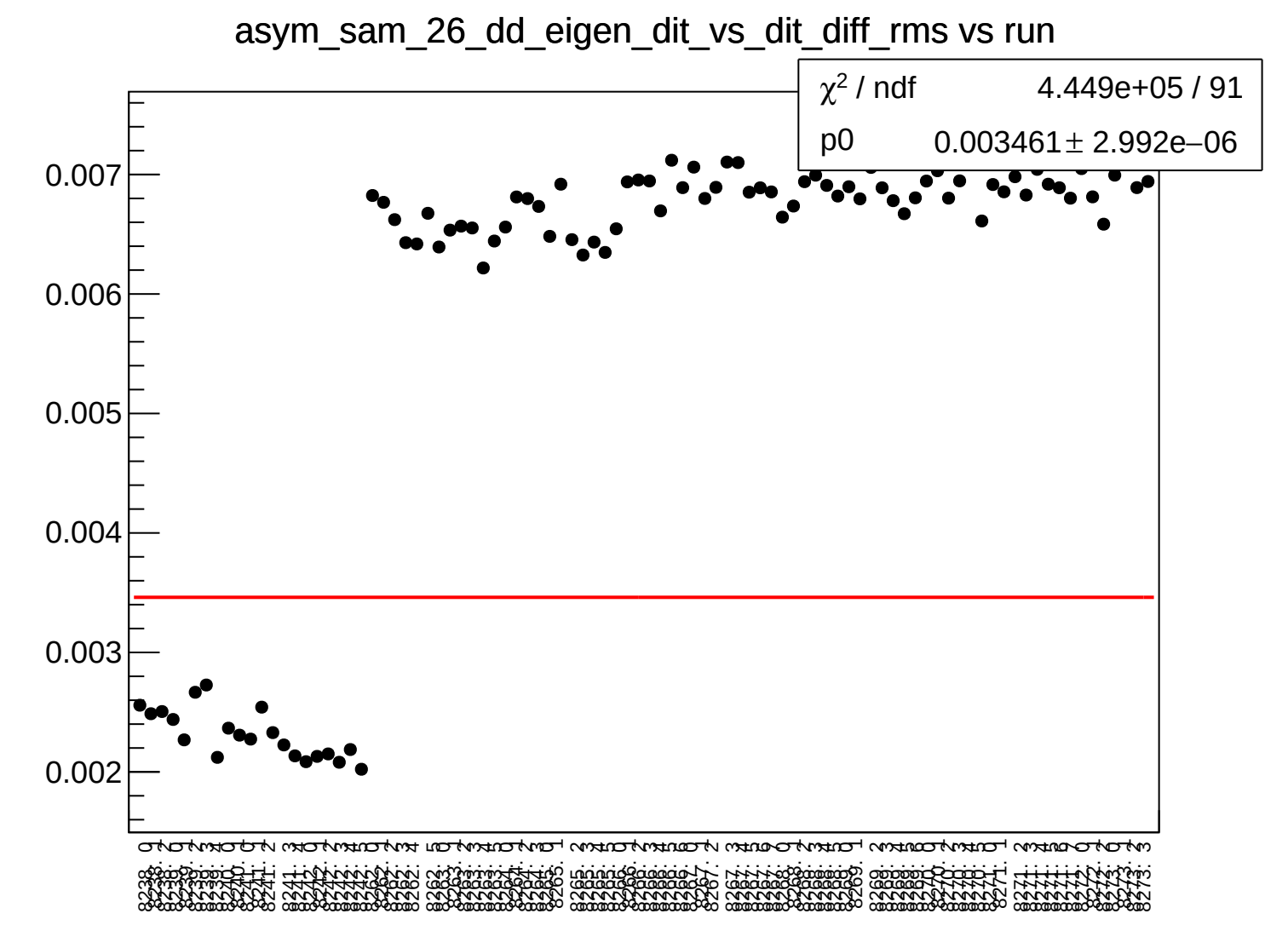

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9826 / 91
p0 95.33 ± 0.0716
120
115
110
105
100
95
90
85
80

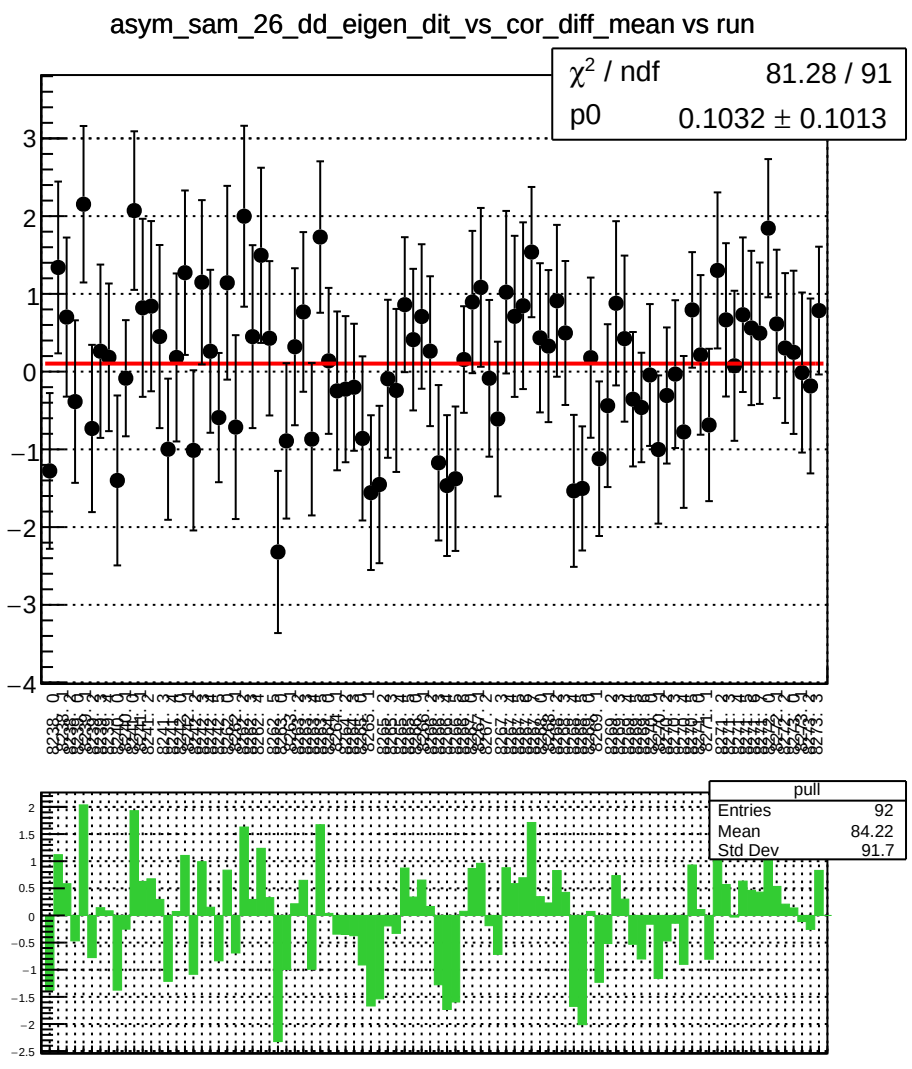

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.28 / 91
p0 0.1032 ± 0.1013
pull
Entries 92
Mean 84.22
Std Dev 91.7

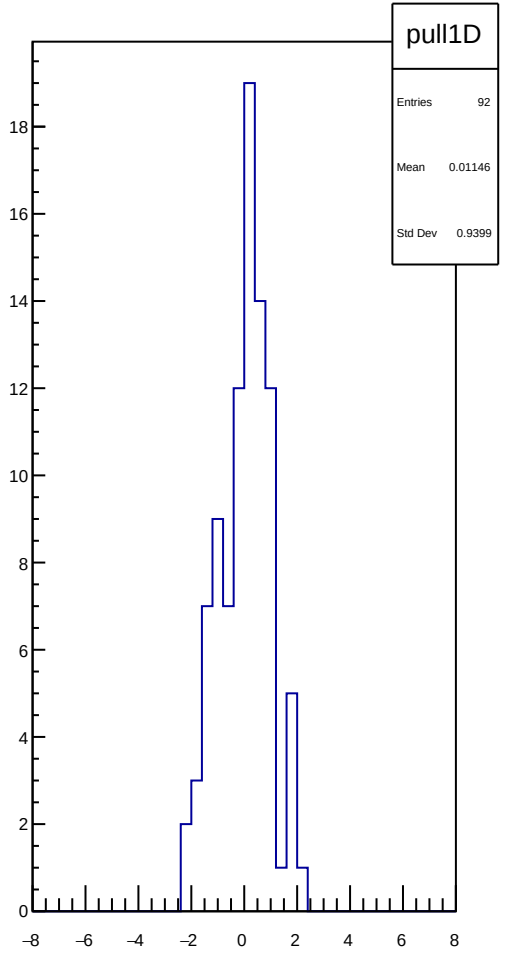

pull1D
Entries 92
Mean 0.01146
Std Dev 0.9399

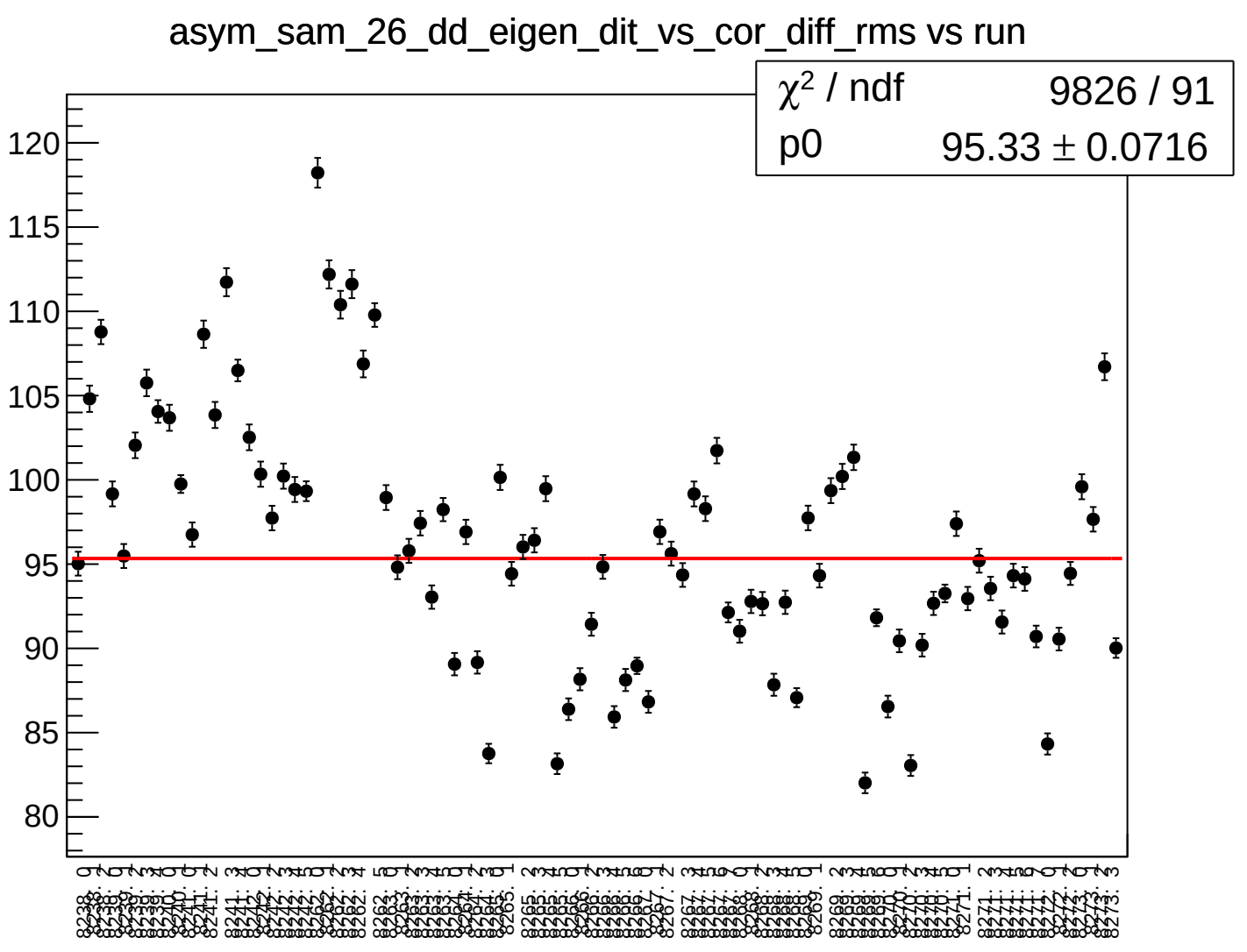

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9826 / 91
p0 95.33 ± 0.0716
120
115
110
105
100
95
90
85
80

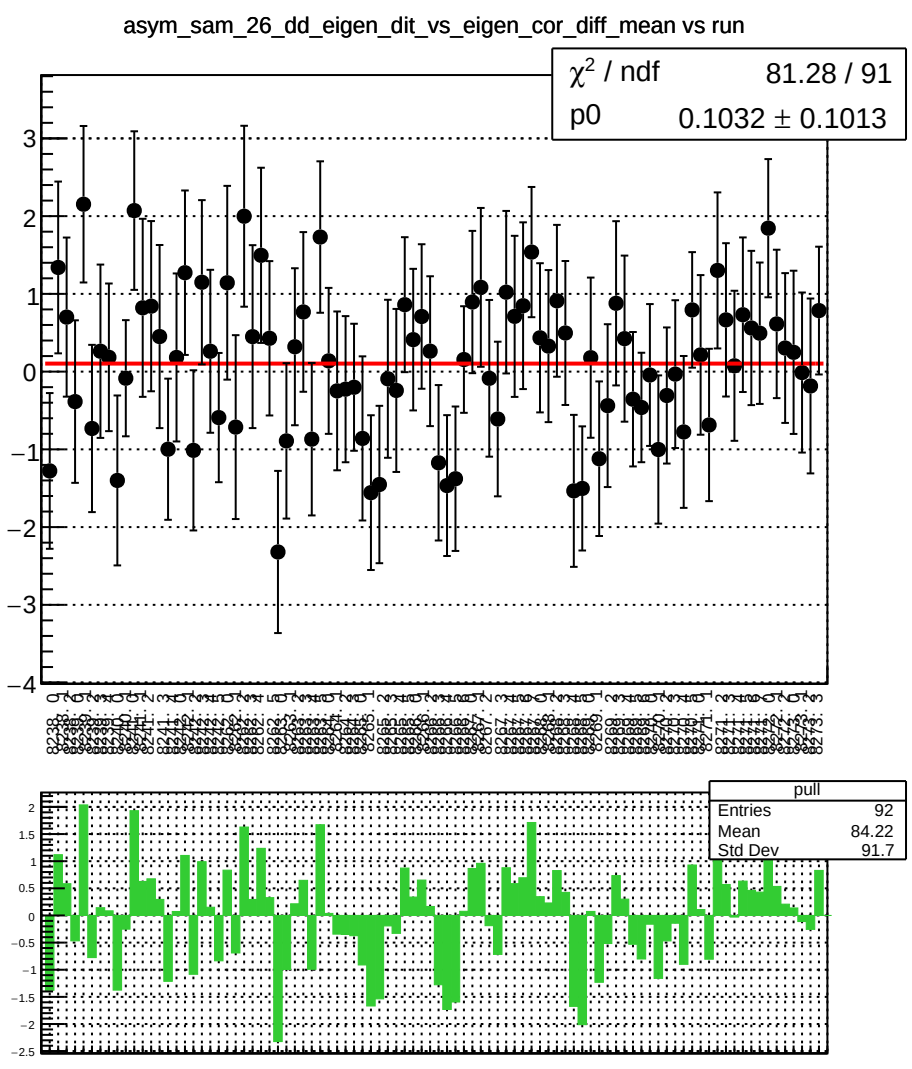

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.03 / 91
p0 8.5e−06 ± 4.232e−06
pull
Entries 92
Mean 55.21
Std Dev 0
pull1D
Entries 92
Mean 0.02553
Std Dev 0.8596

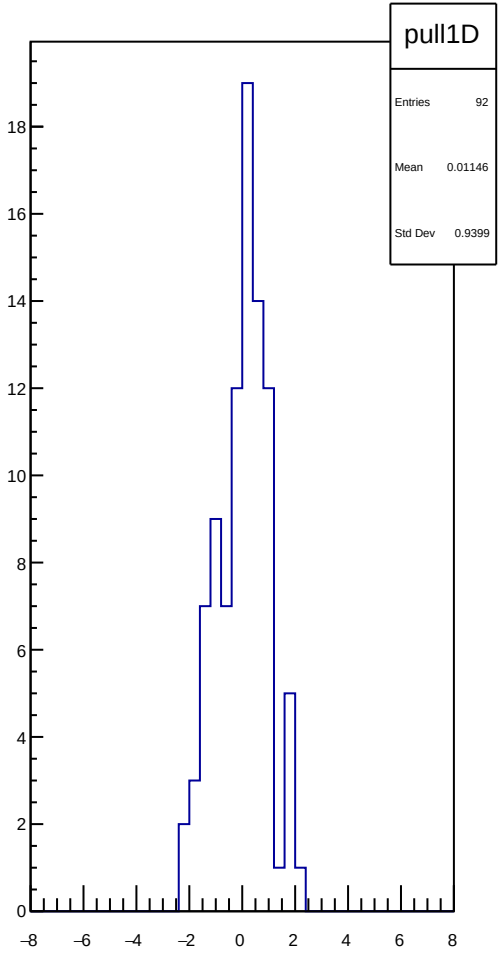

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.449e+05 / 91
p0 0.003461 ± 2.992e−06
0.007
0.006
0.005
0.004
0.003
0.002

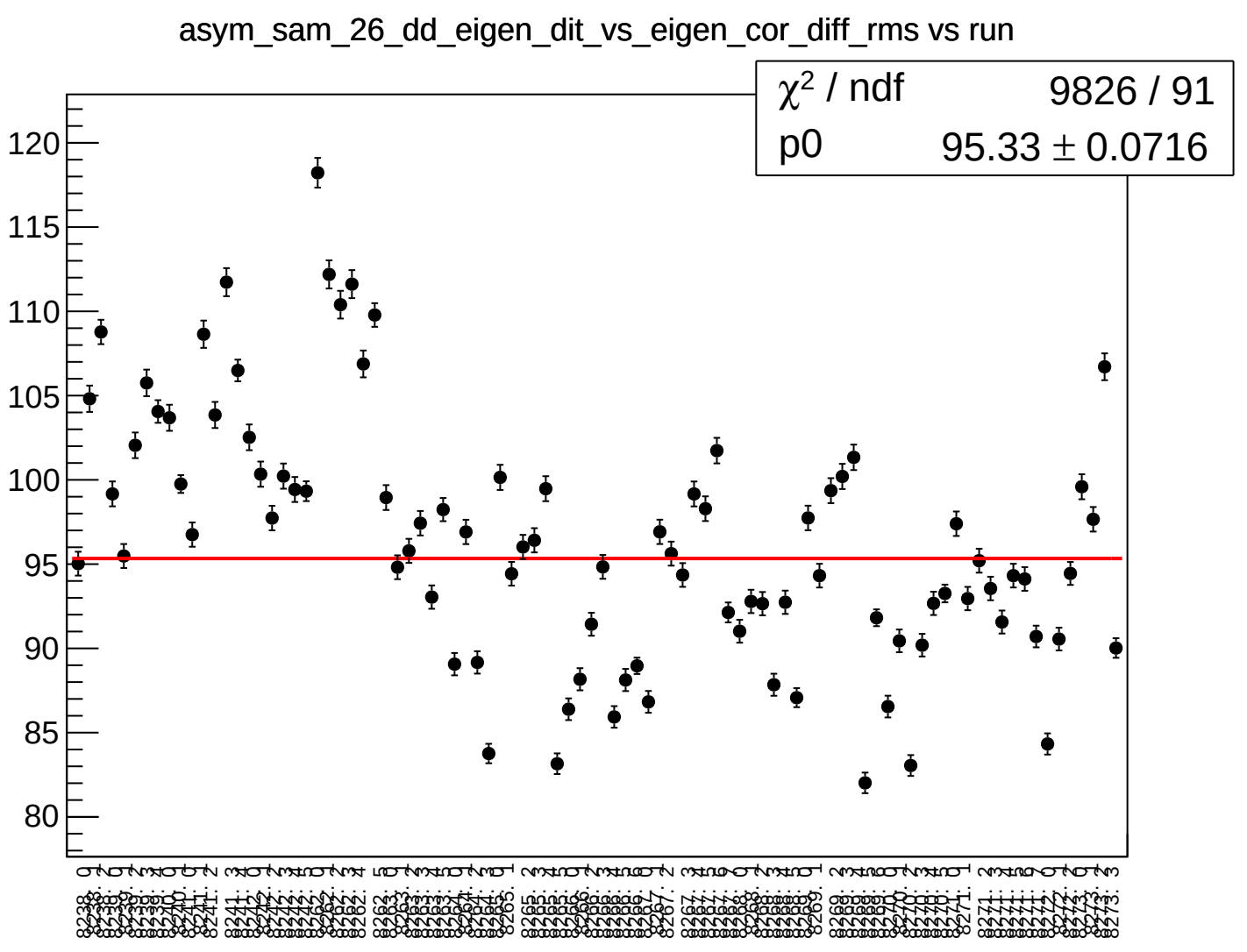

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.28 / 91
p0 0.1032 ± 0.1013
pull
Entries 92
Mean 84.22
Std Dev 91.7

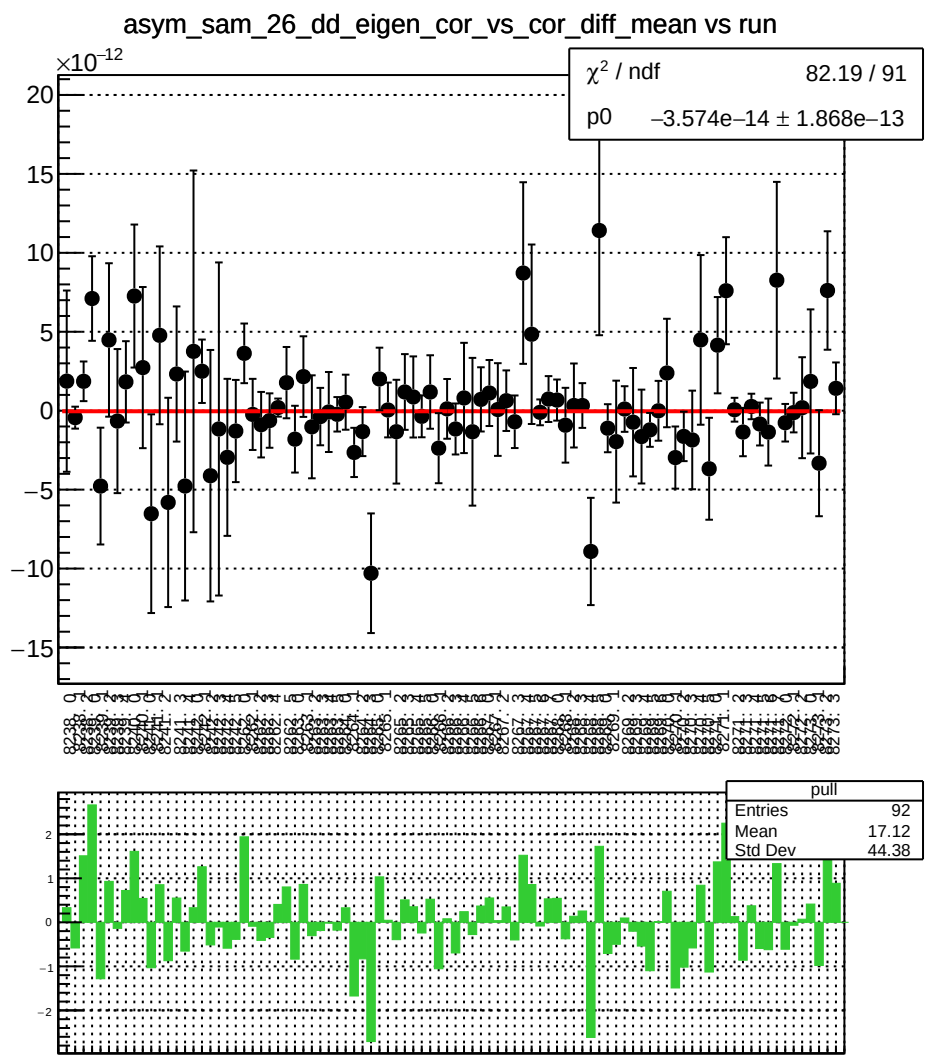

pull1D
Entries 92
Mean 0.01146
Std Dev 0.9399

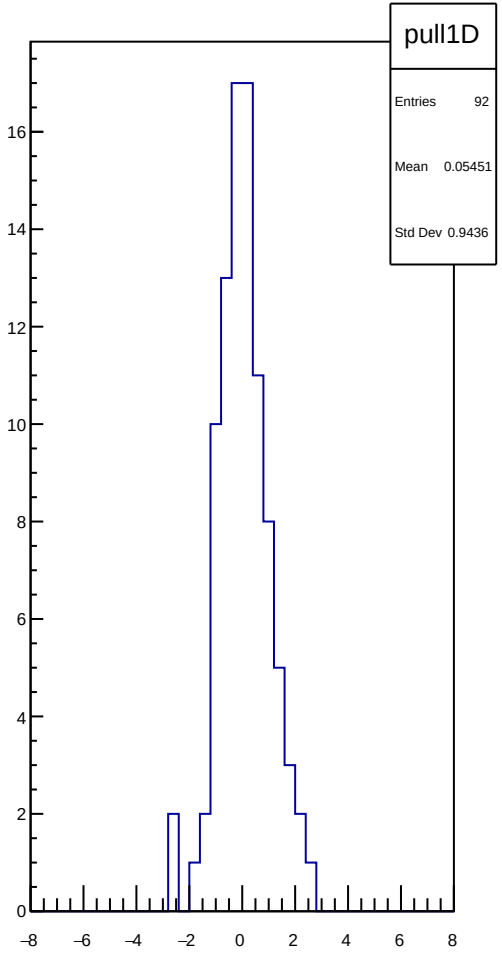

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9826 / 91
p0 95.33 ± 0.0716
120
115
110
105
100
95
90
85
80

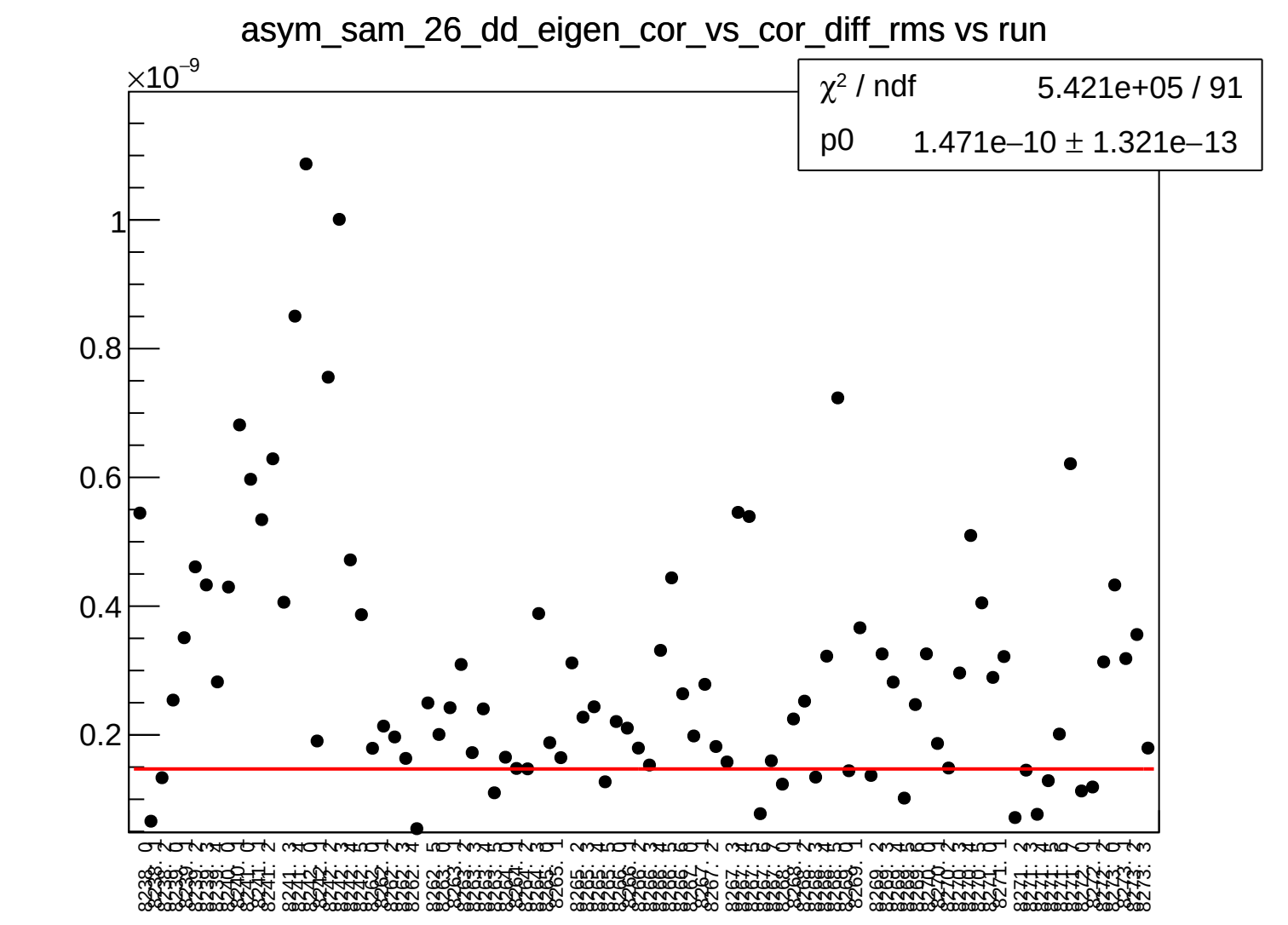

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.28 / 91
p0 0.1032 ± 0.1013
pull
Entries 92
Mean 84.22
Std Dev 91.7

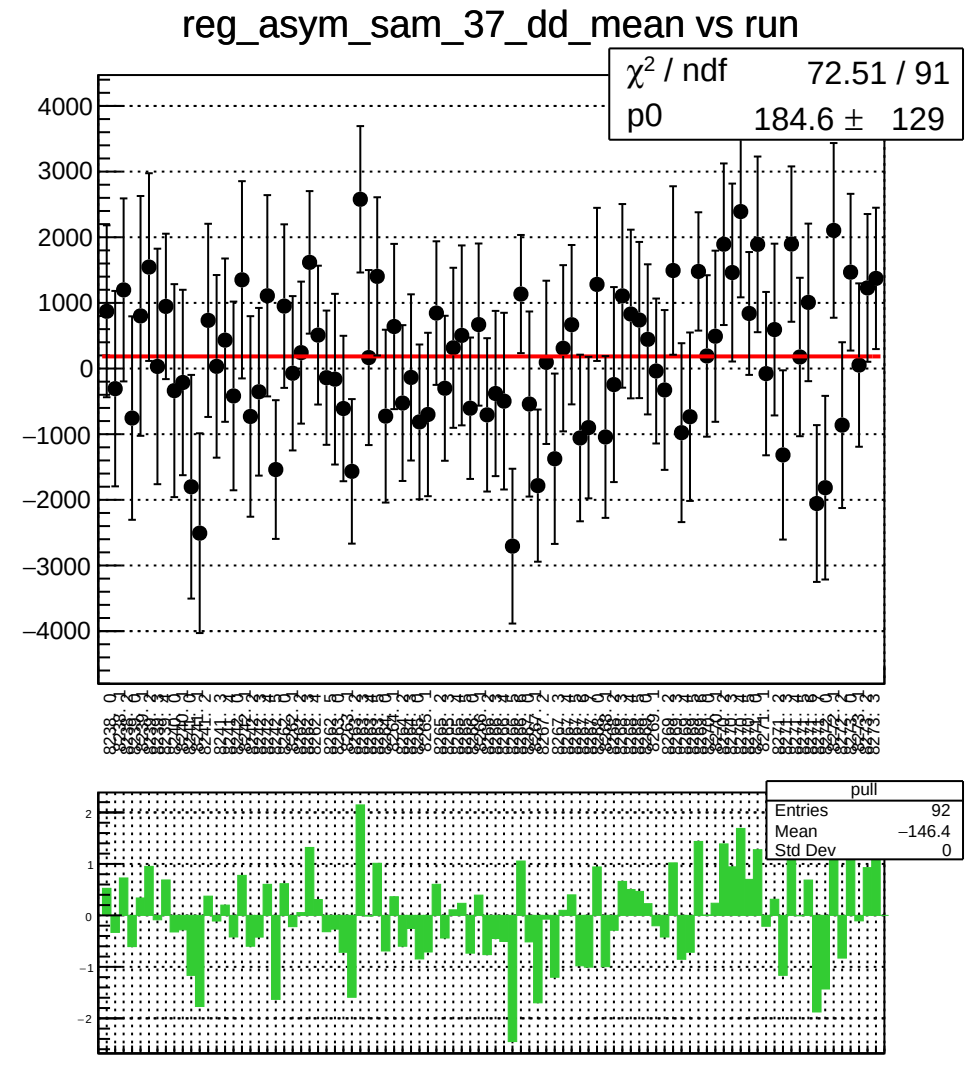

pull1D
Entries 92
Mean 0.01146
Std Dev 0.9399

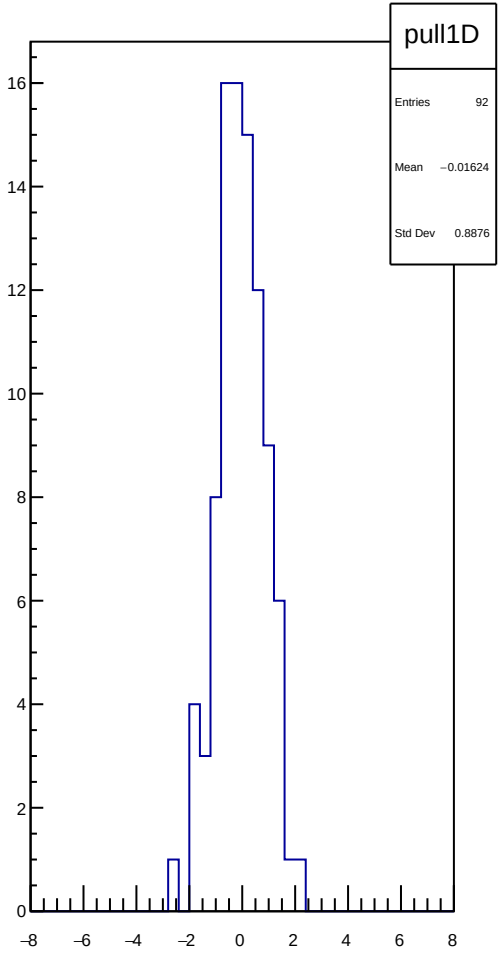

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9826 / 91
p0 95.33 ± 0.0716
120
115
110
105
100
95
90
85
80

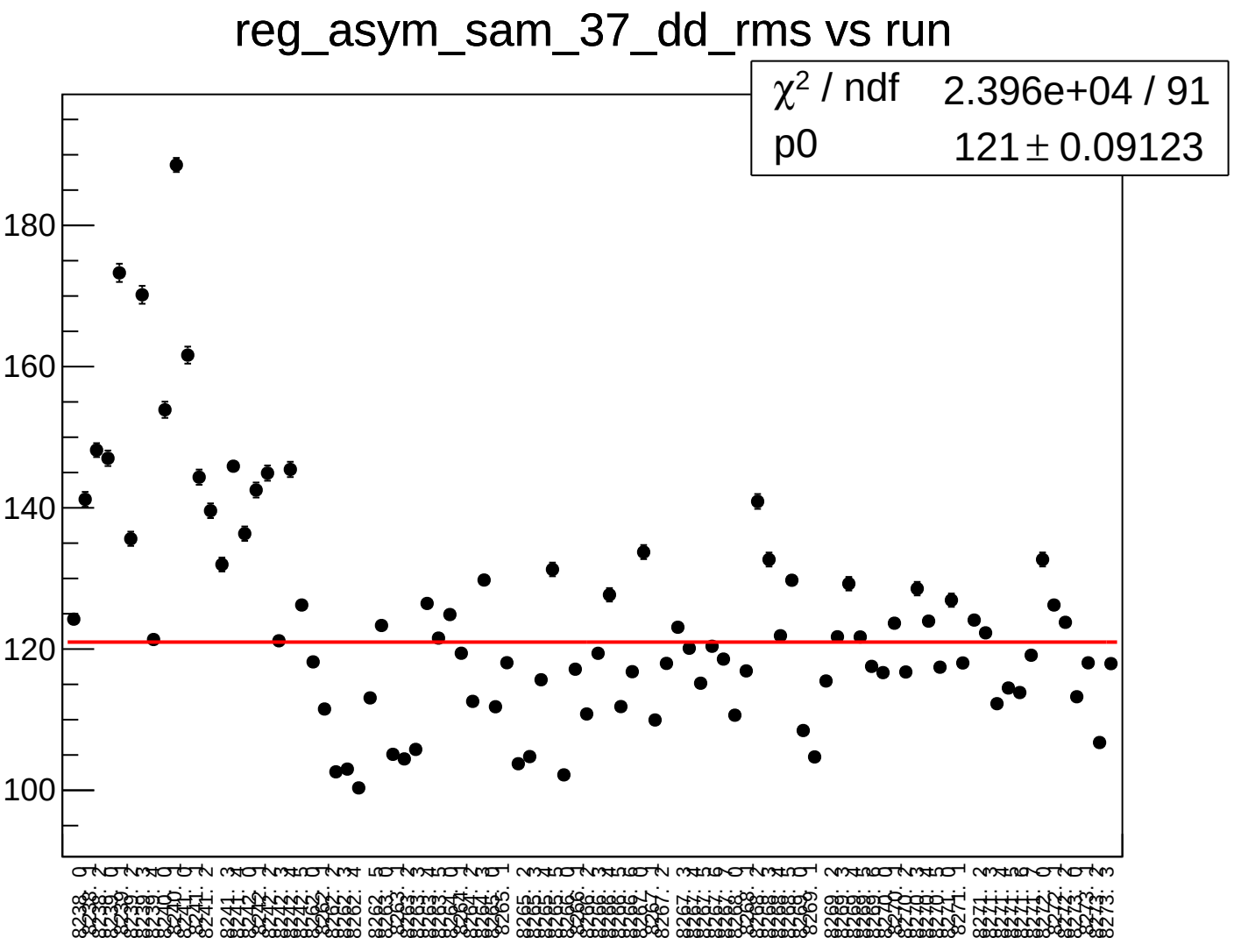

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.19 / 91
p0 −3.574e−14 ± 1.868e−13
pull
Entries 92
Mean 17.12
Std Dev 44.38

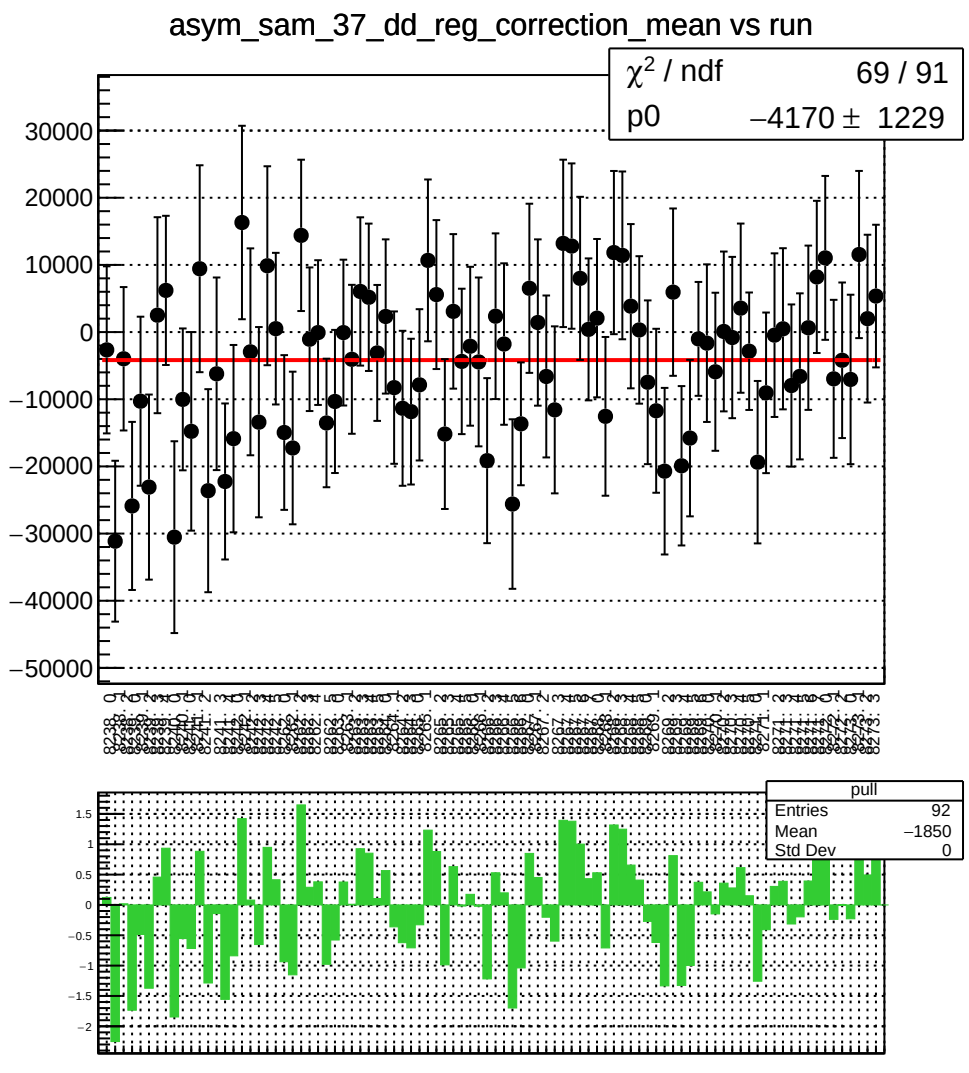

pull1D
Entries 92
Mean 0.05451
Std Dev 0.9436

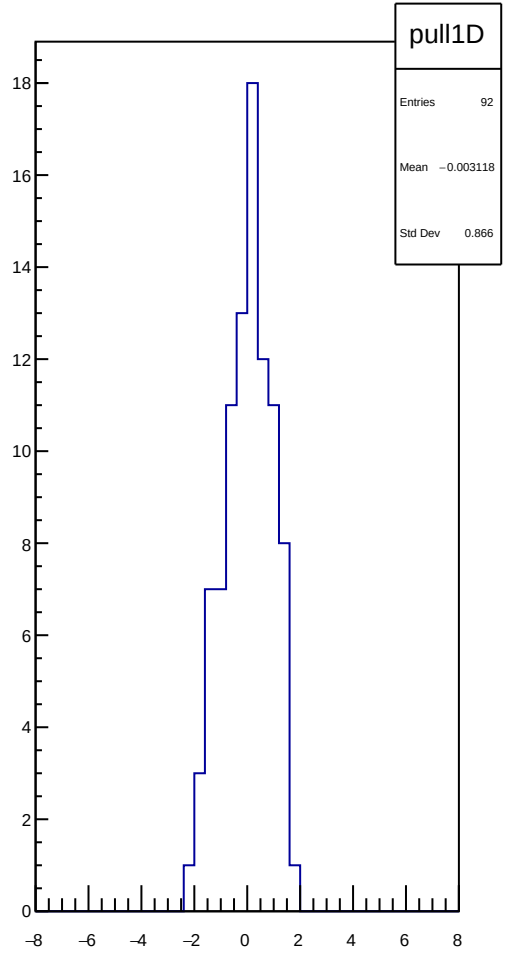

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.421e+05 / 91
p0 1.471e−10 ± 1.321e−13
1
0.8
0.6
0.4
0.2

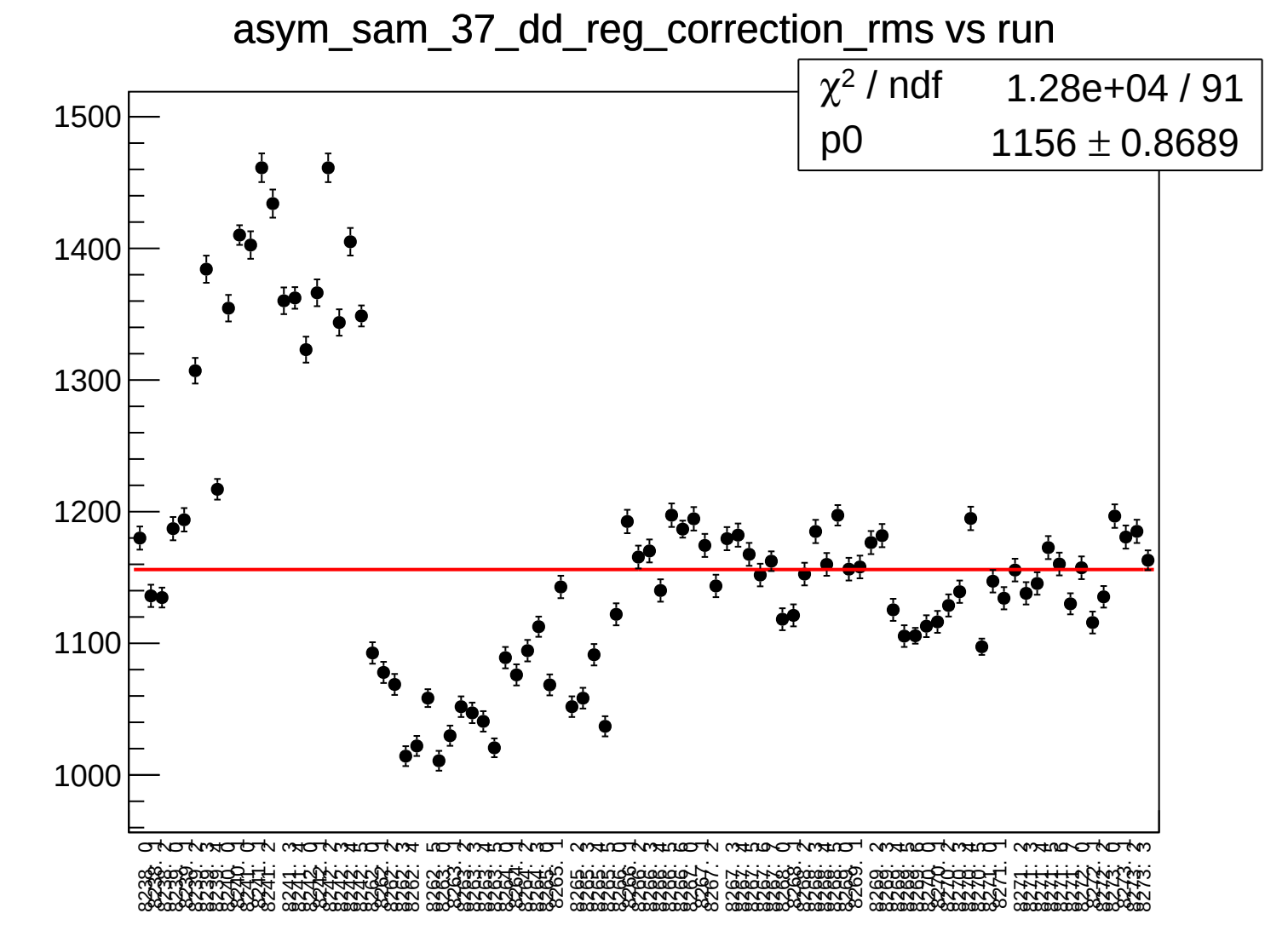

reg_asym_sam_37_dd_mean vs run
χ² / ndf 72.51 / 91
p0 184.6 ± 129
pull
Entries 92
Mean −146.4
Std Dev 0

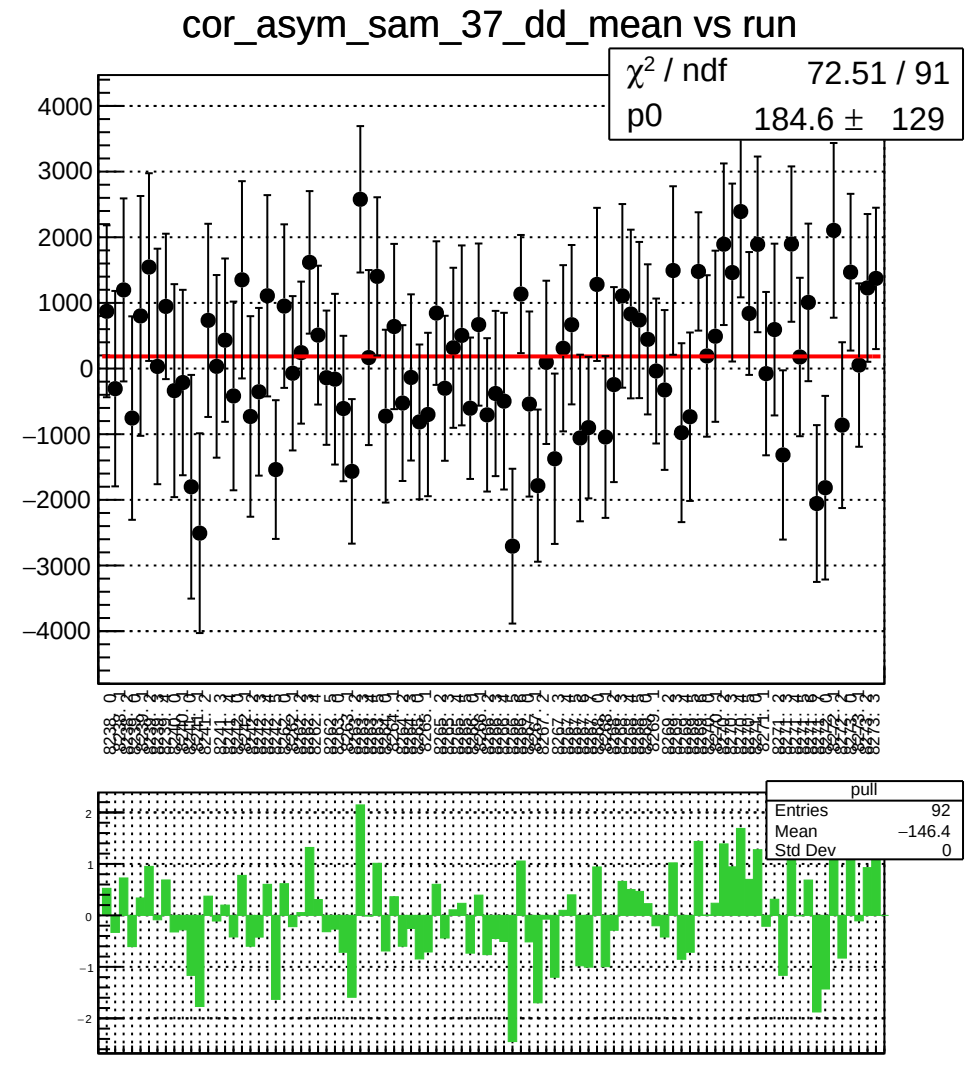

pull1D
Entries 92
Mean −0.01624
Std Dev 0.8876

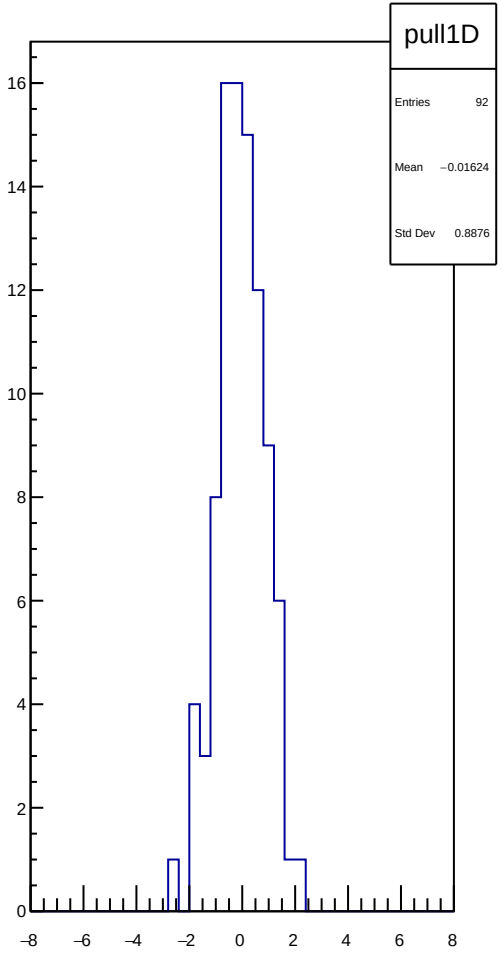

reg_asym_sam_37_dd_rms vs run
χ² / ndf 2.396e+04 / 91
p0 121 ± 0.09123
180
160
140
120
100

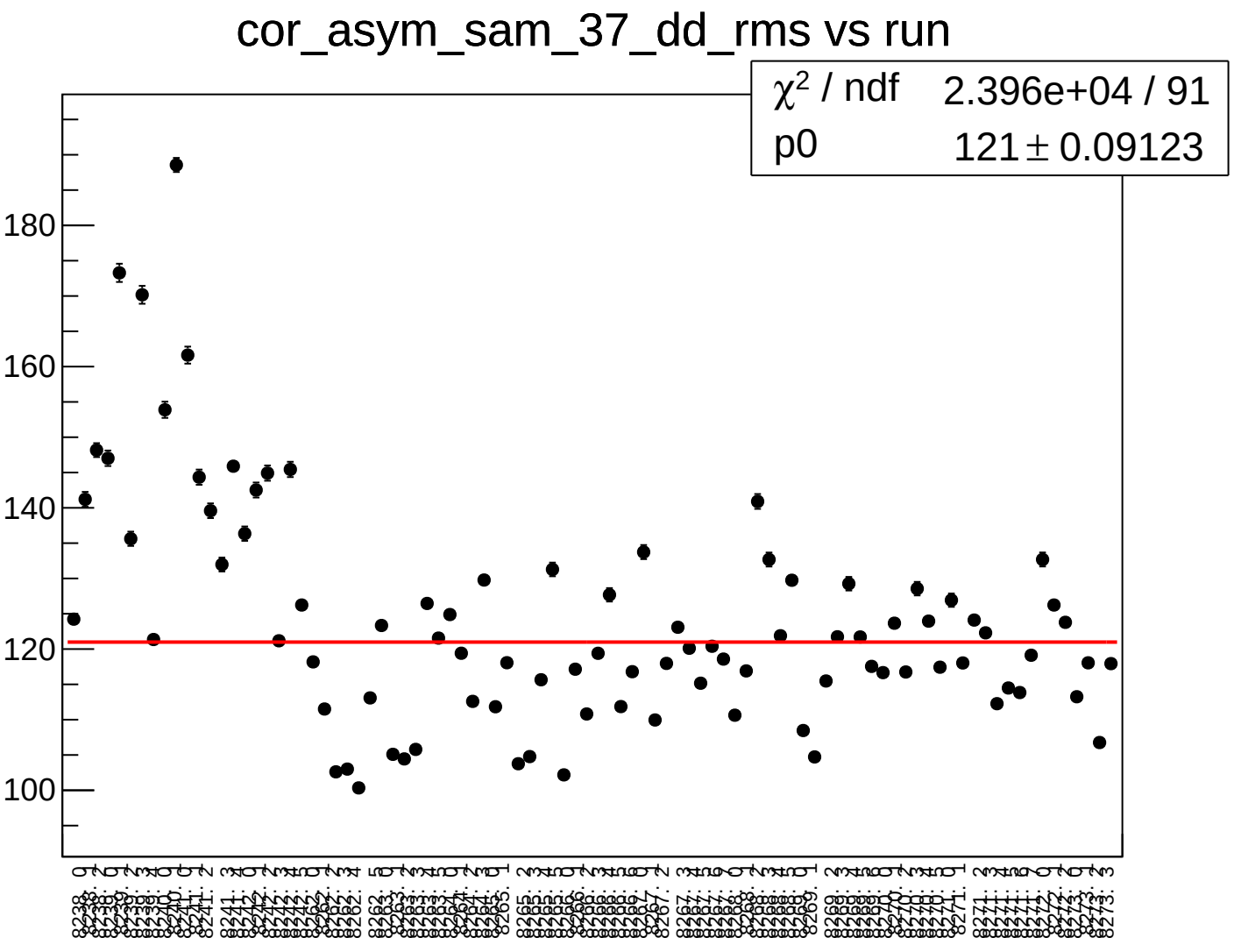

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 69 / 91
p0 −4170 ± 1229
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 92
Mean −1850
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

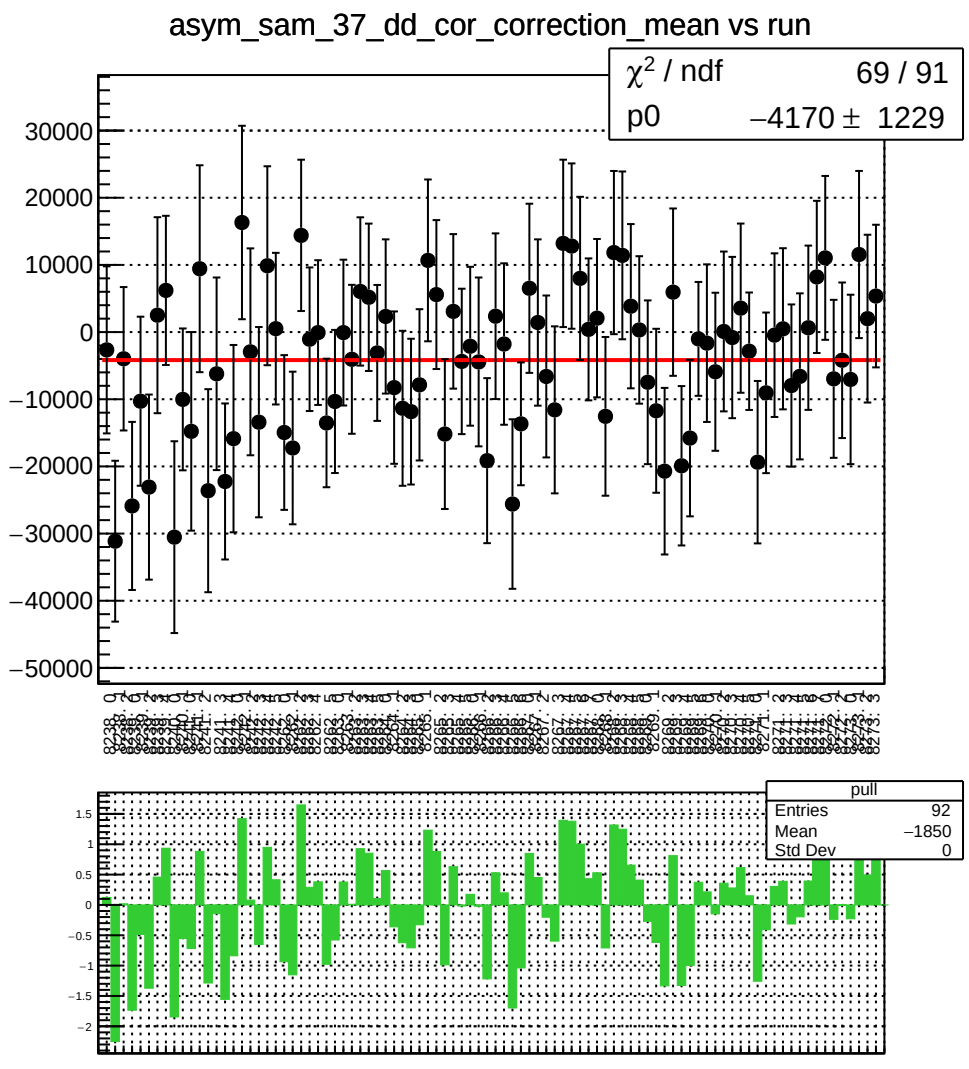

pull1D
Entries 92
Mean −0.003118
Std Dev 0.866
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

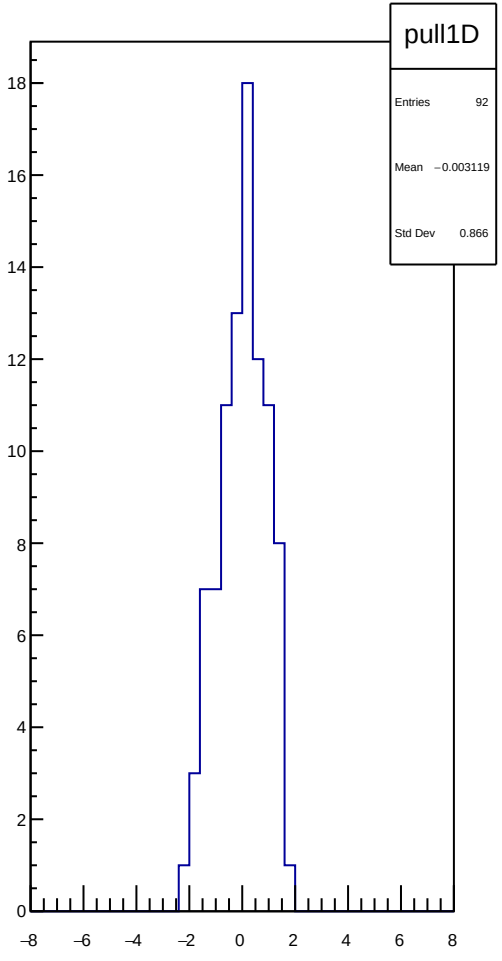

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 1.28e+04 / 91
p0 1156 ± 0.8689
1500
1400
1300
1200
1100
1000

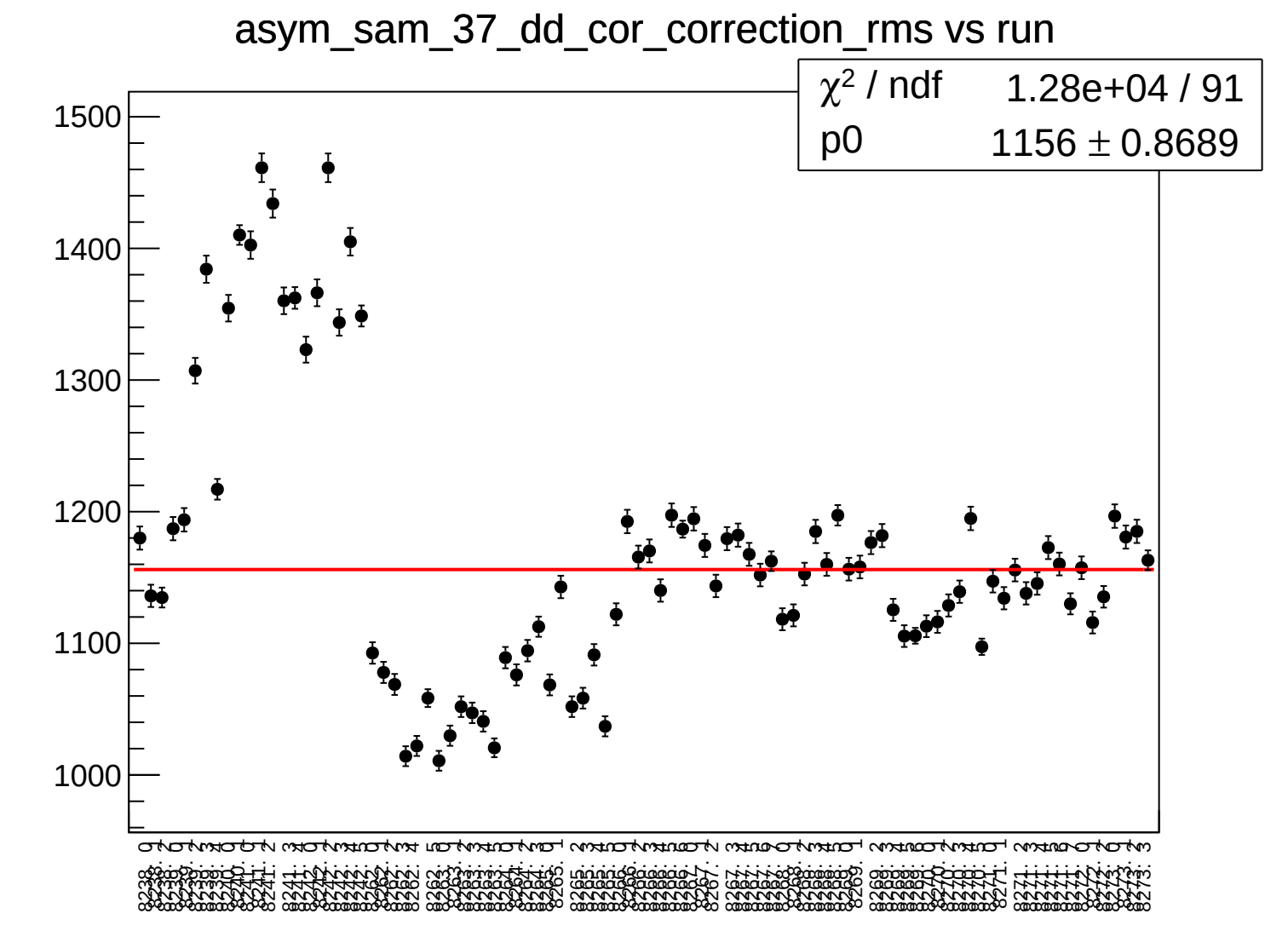

cor_asym_sam_37_dd_mean vs run
χ² / ndf 72.51 / 91
p0 184.6 ± 129
pull
Entries 92
Mean −146.4
Std Dev 0

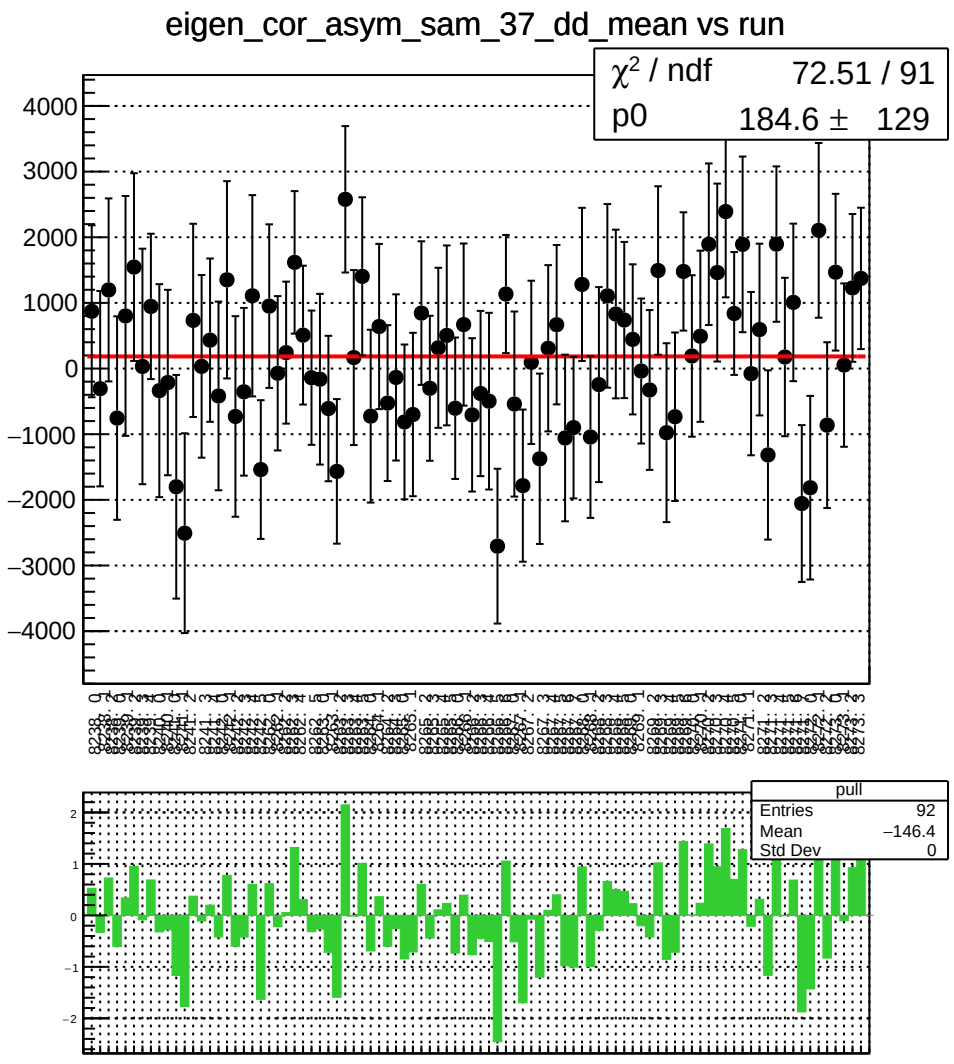

pull1D
Entries 92
Mean −0.01624
Std Dev 0.8876

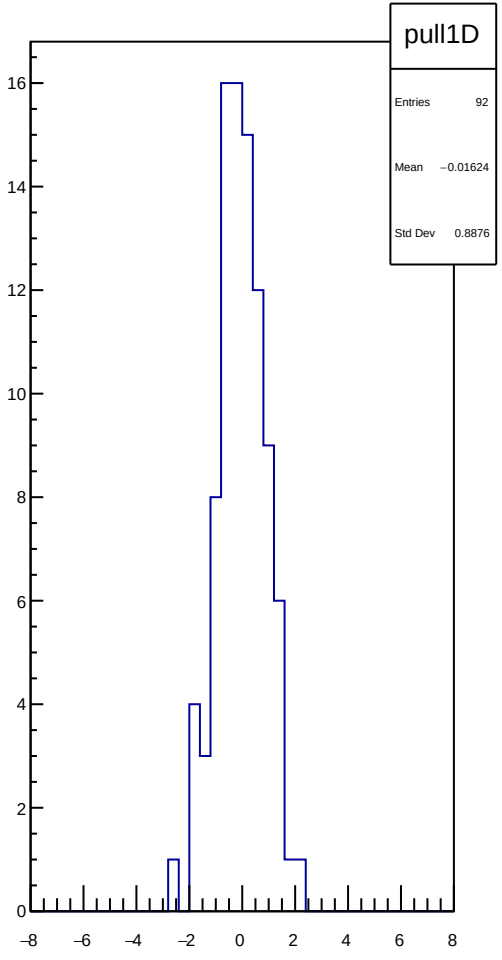

cor_asym_sam_37_dd_rms vs run
χ² / ndf 2.396e+04 / 91
p0 121 ± 0.09123
180
160
140
120
100

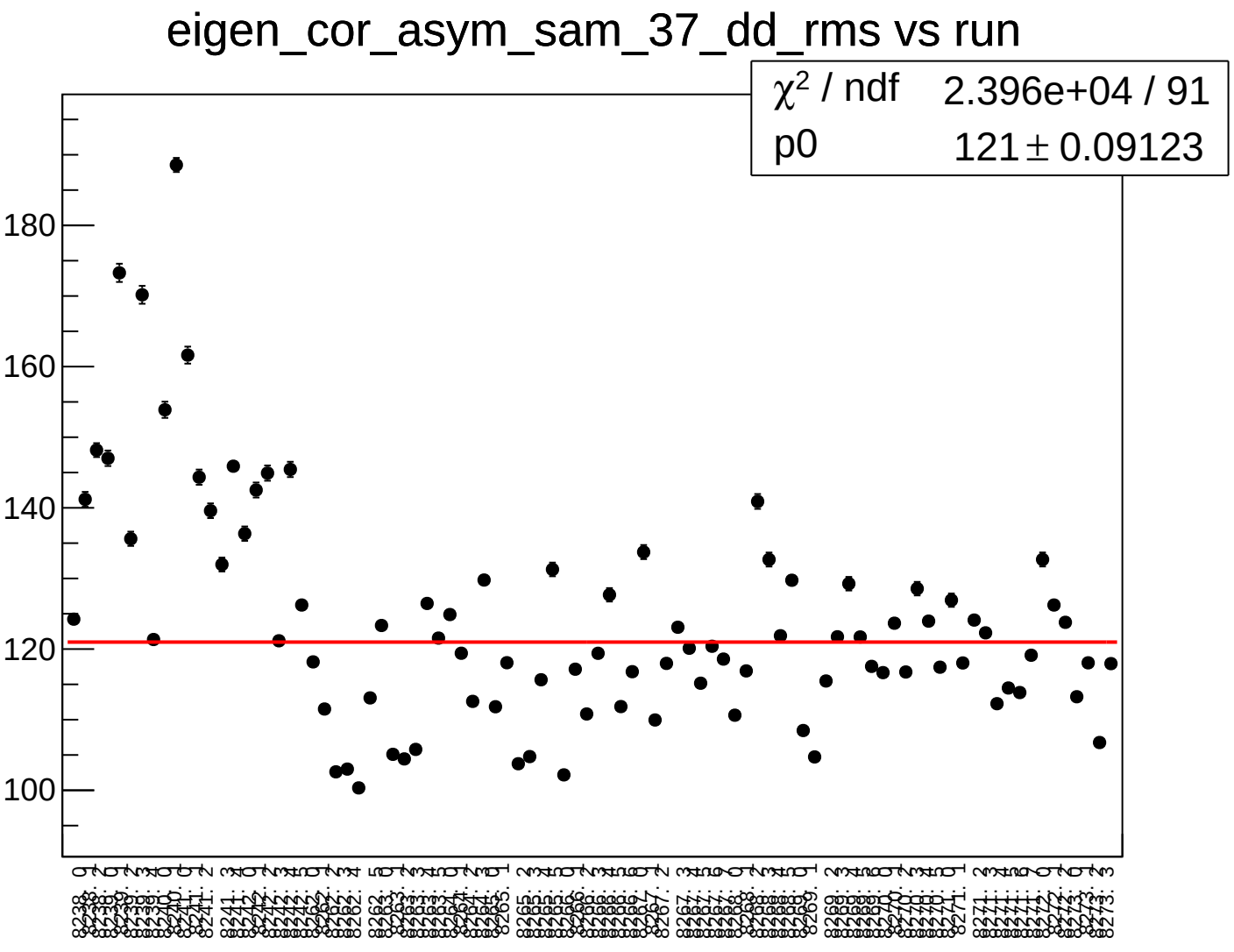

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 69 / 91
p0 −4170 ± 1229
pull
Entries 92
Mean −1850
Std Dev 0

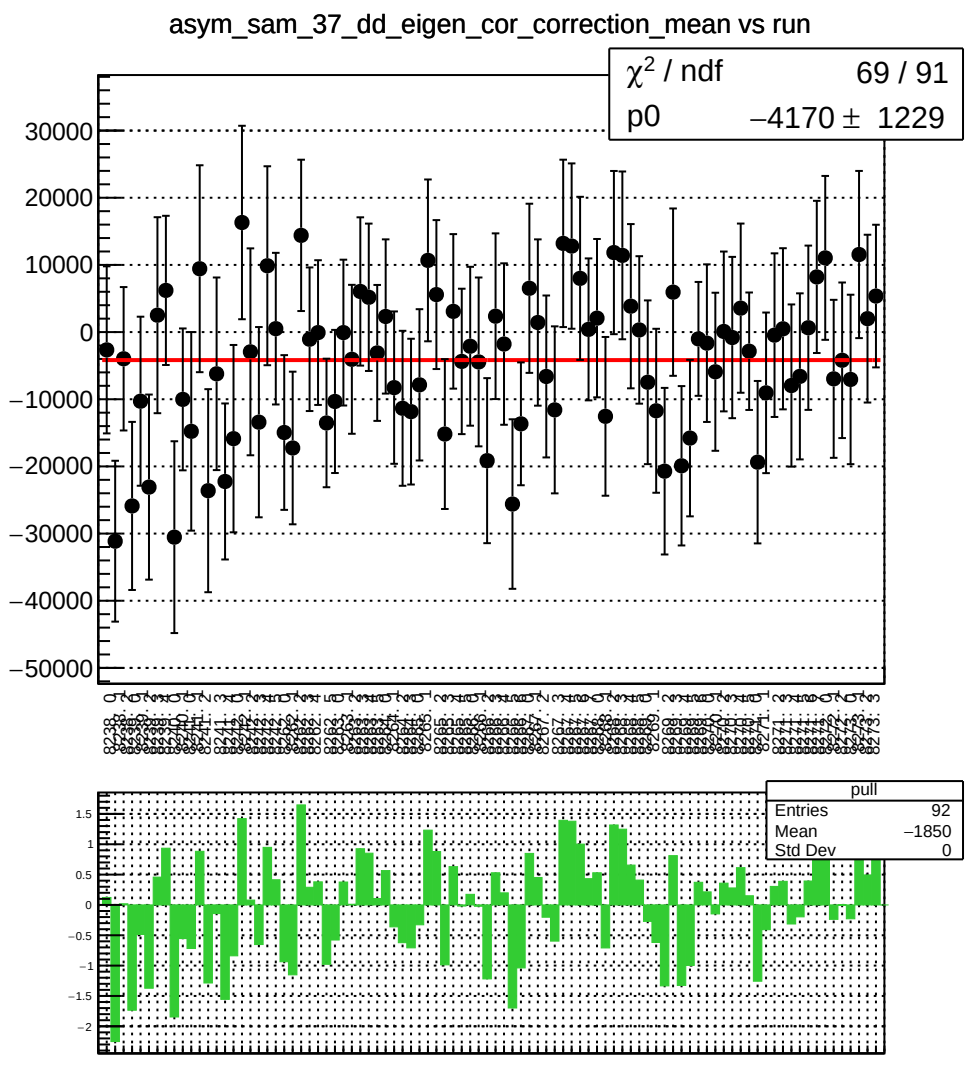

pull1D
Entries 92
Mean −0.003119
Std Dev 0.866

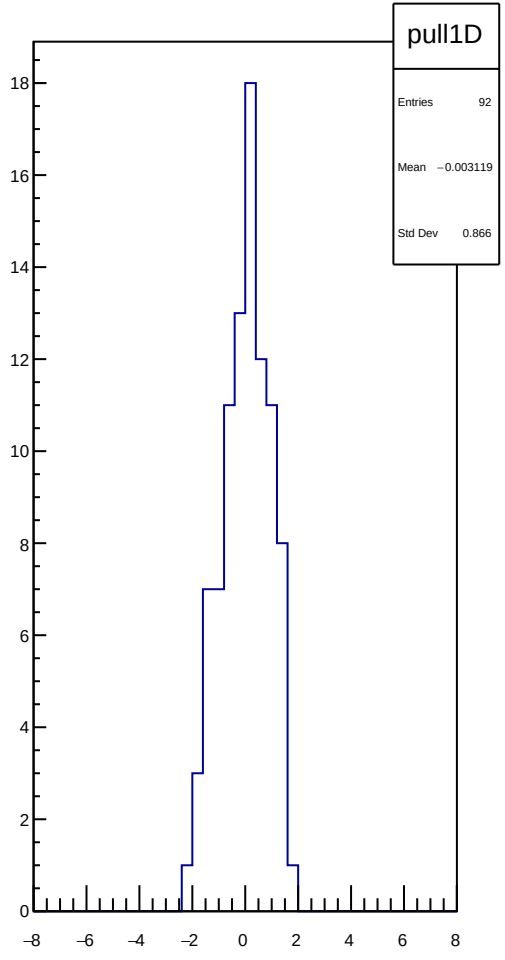

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 1.28e+04 / 91
p0 1156 ± 0.8689
1500
1400
1300
1200
1100
1000

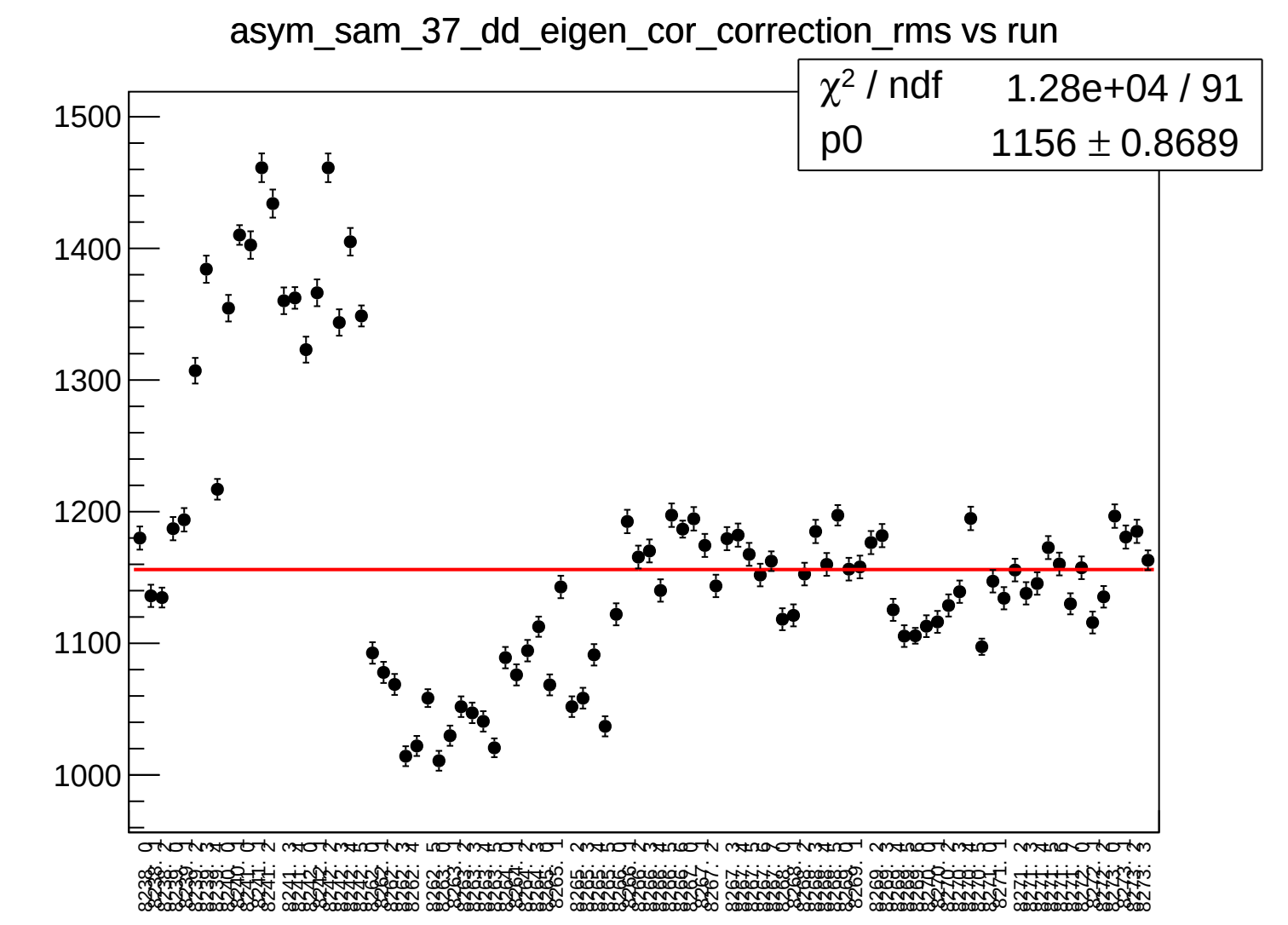

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 72.51 / 91
p0 184.6 ± 129
pull
Entries 92
Mean −146.4
Std Dev 0

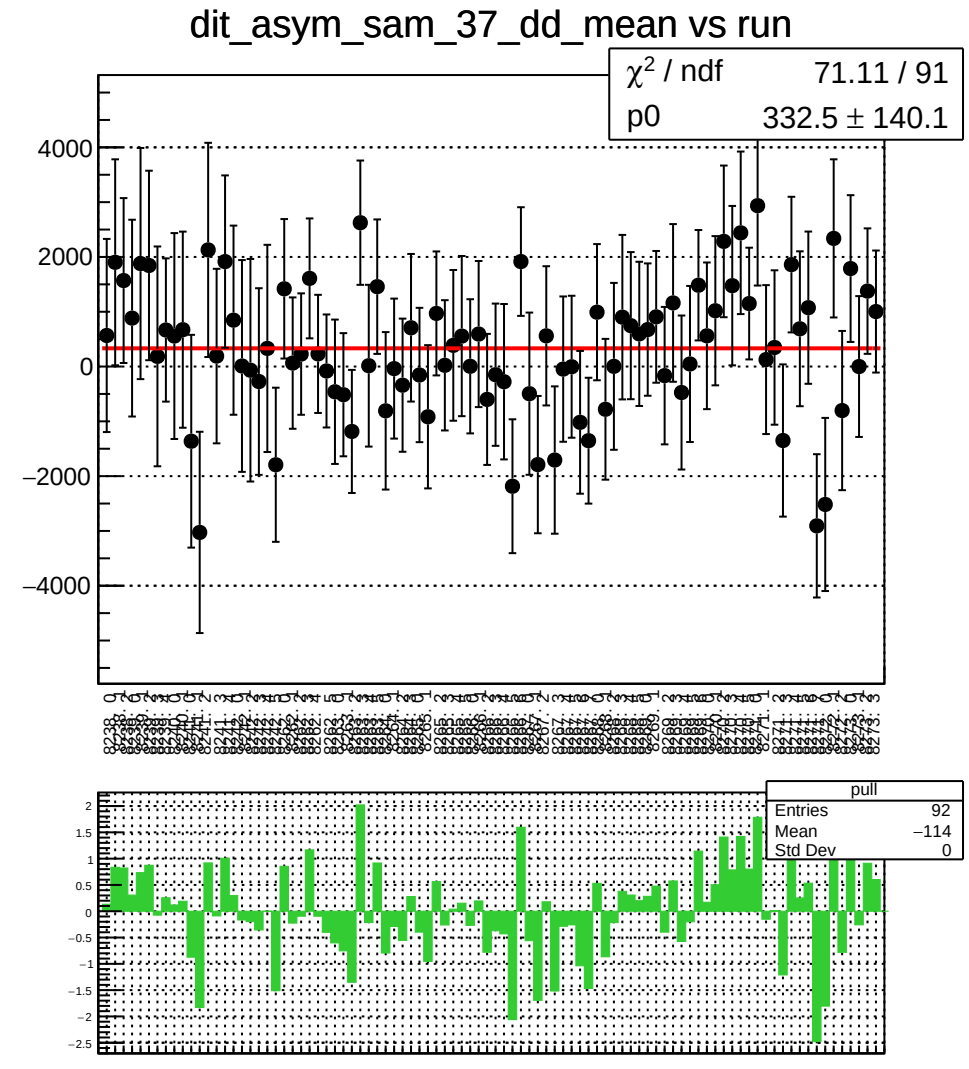

pull1D
Entries 92
Mean −0.01624
Std Dev 0.8876

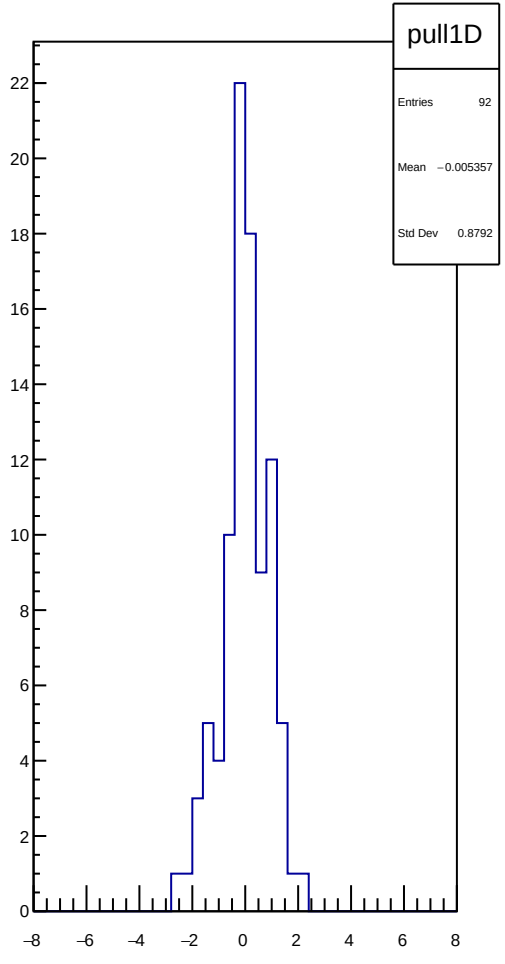

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 2.396e+04 / 91
p0 121 ± 0.09123
180
160
140
120
100

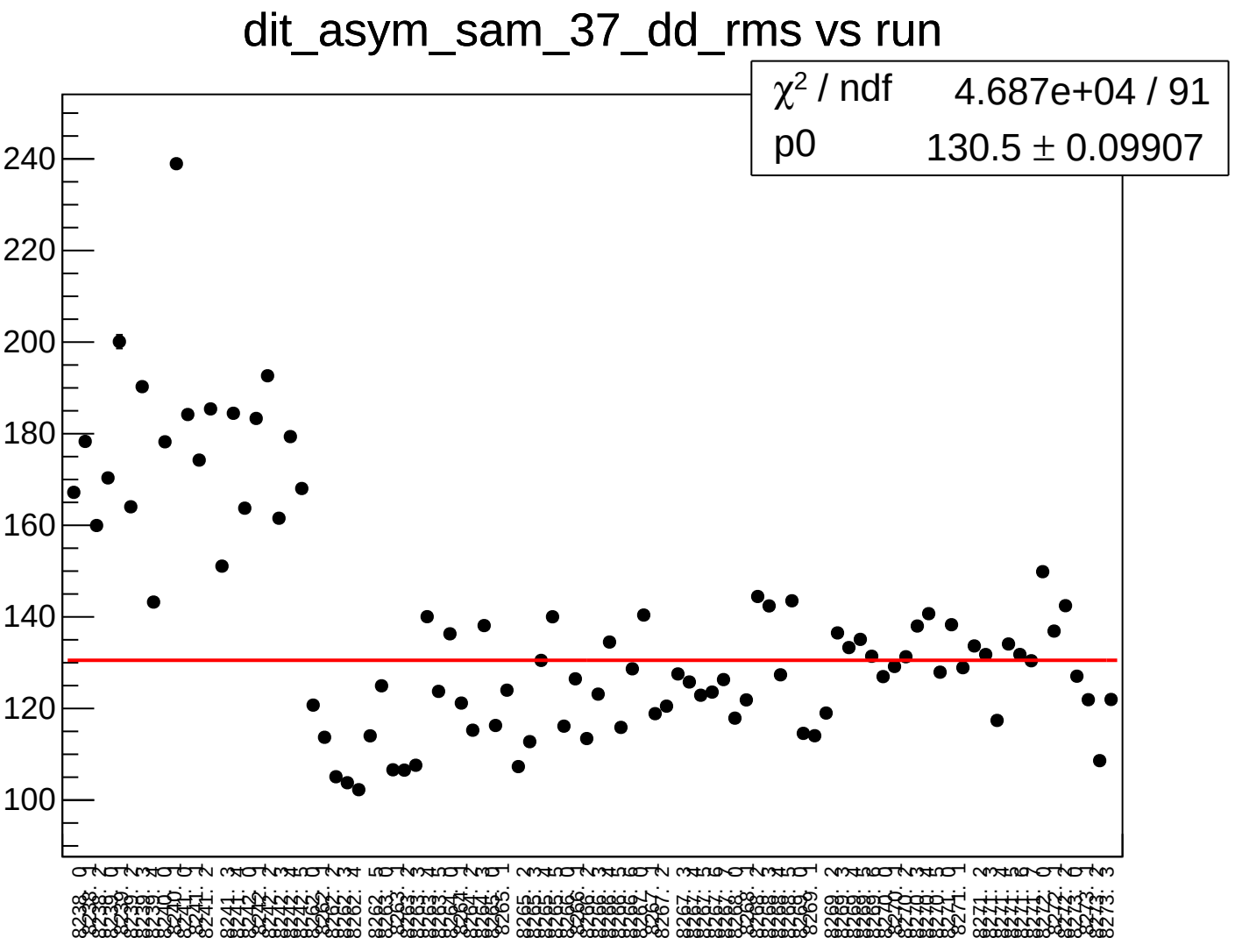

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 69 / 91
p0 −4170 ± 1229
pull
Entries 92
Mean −1850
Std Dev 0

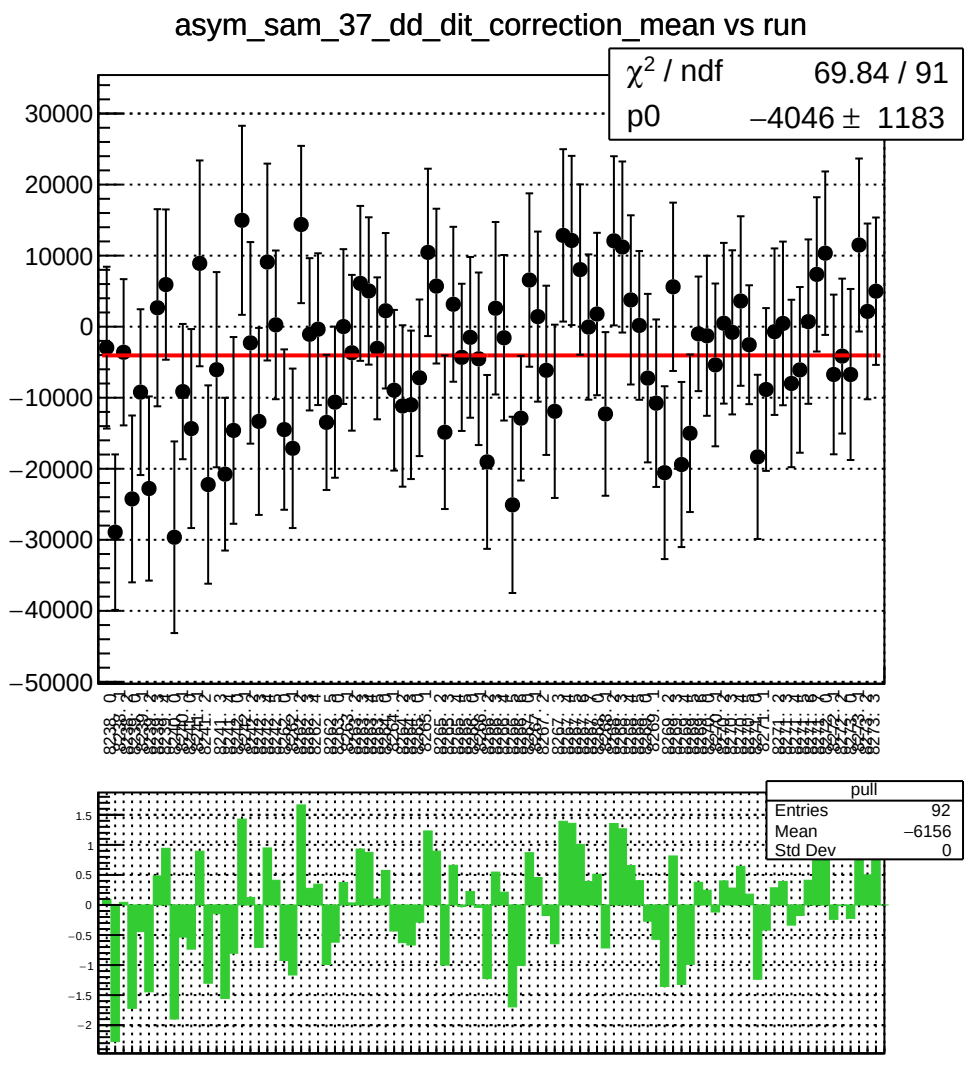

pull1D
Entries 92
Mean −0.003119
Std Dev 0.866

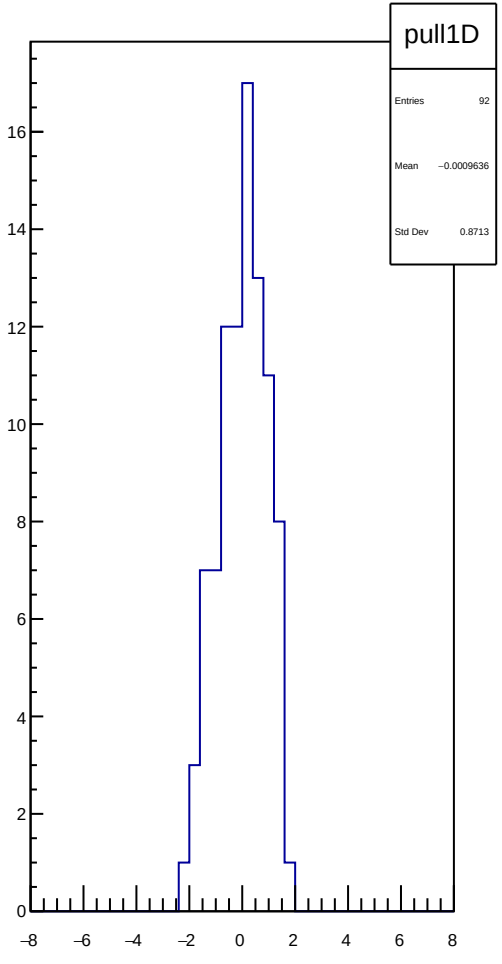

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.28e+04 / 91
p0 1156 ± 0.8689
1500
1400
1300
1200
1100
1000

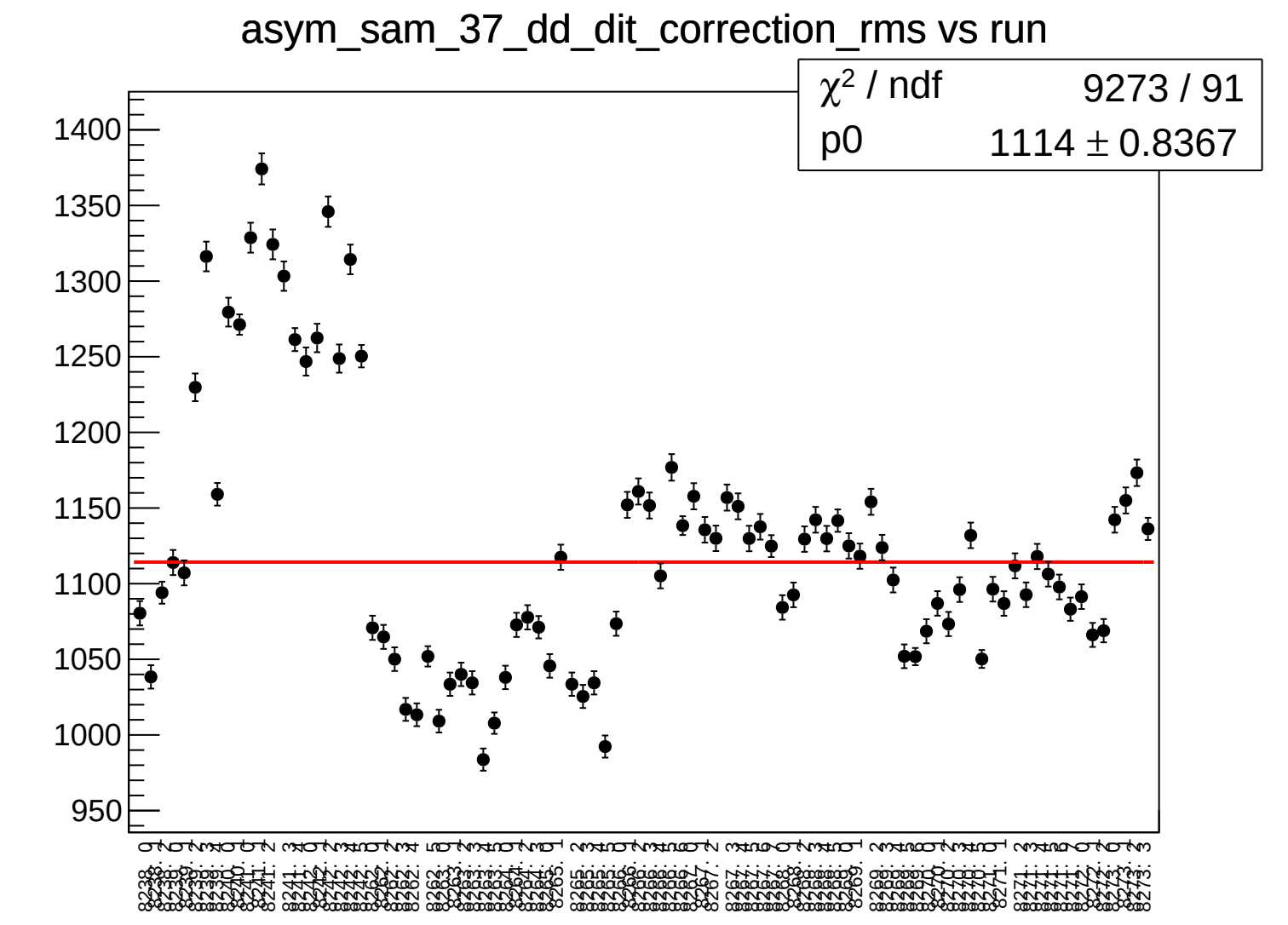

dit_asym_sam_37_dd_mean vs run
χ² / ndf 71.11 / 91
p0 332.5 ± 140.1
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −114
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

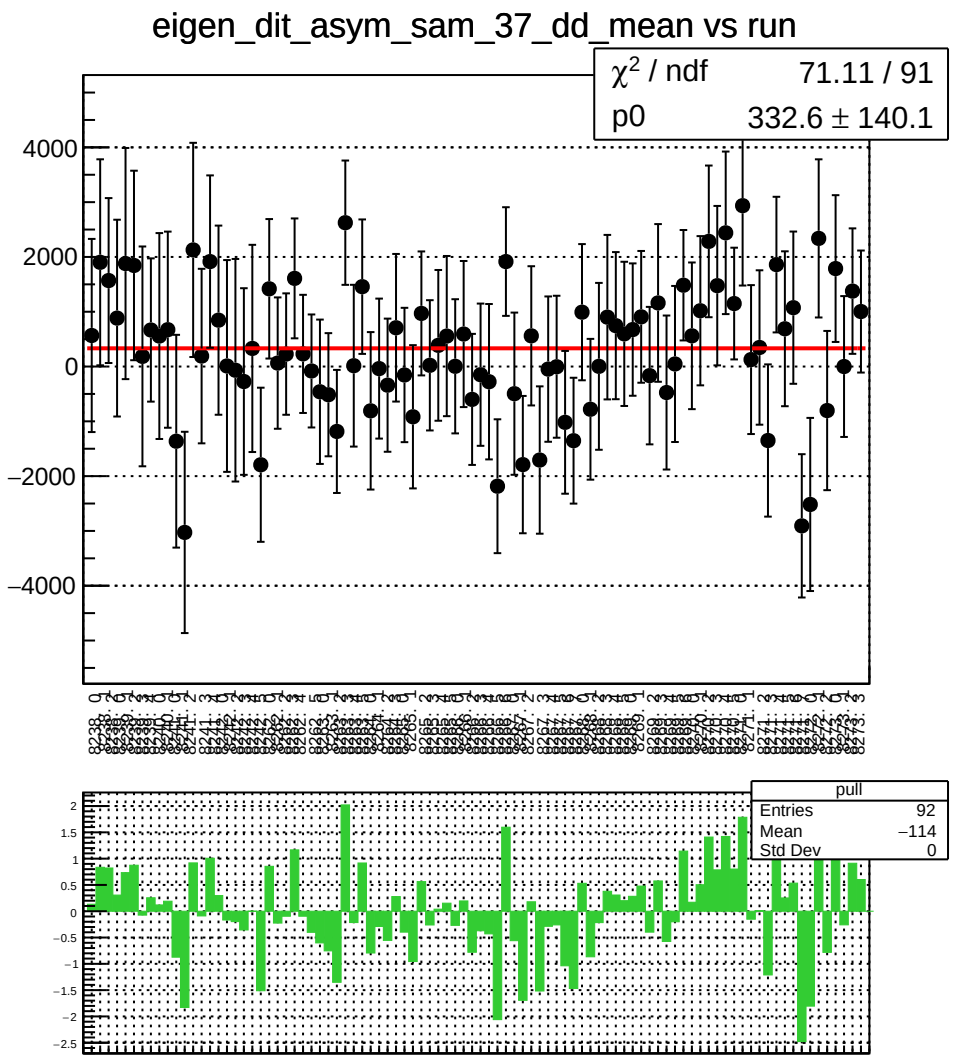

pull1D
Entries 92
Mean −0.005357
Std Dev 0.8792
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

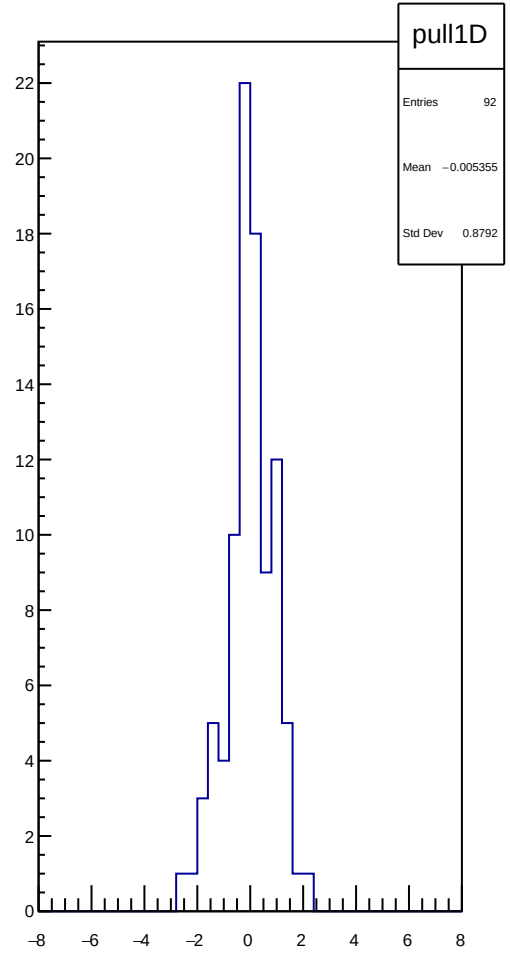

dit_asym_sam_37_dd_rms vs run
$\chi^2$ / ndf 4.687e+04 / 91
p0 130.5 ± 0.09907
240
220
200
180
160
140
120
100

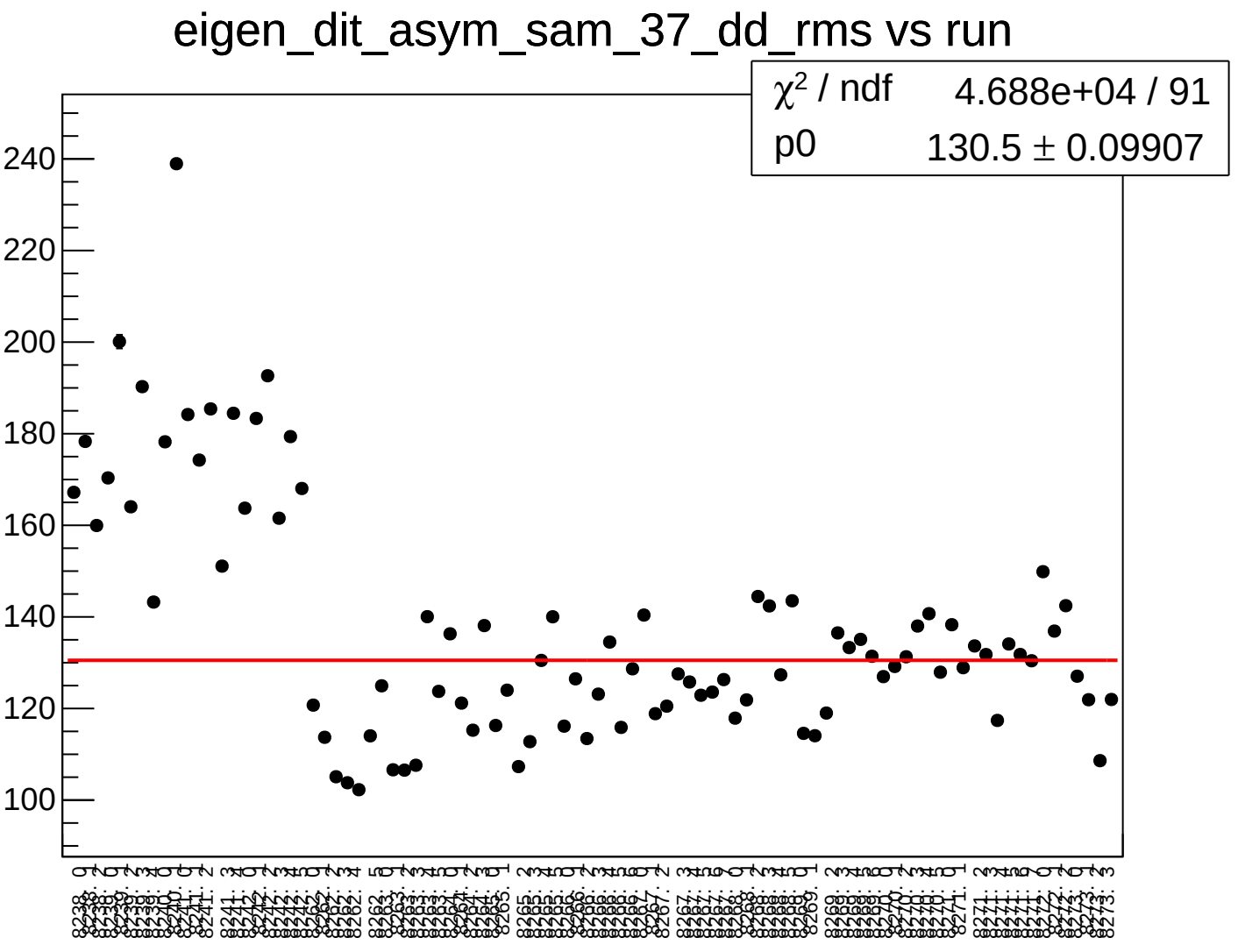

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 69.84 / 91
p0 −4046 ± 1183
pull
Entries 92
Mean −6156
Std Dev 0

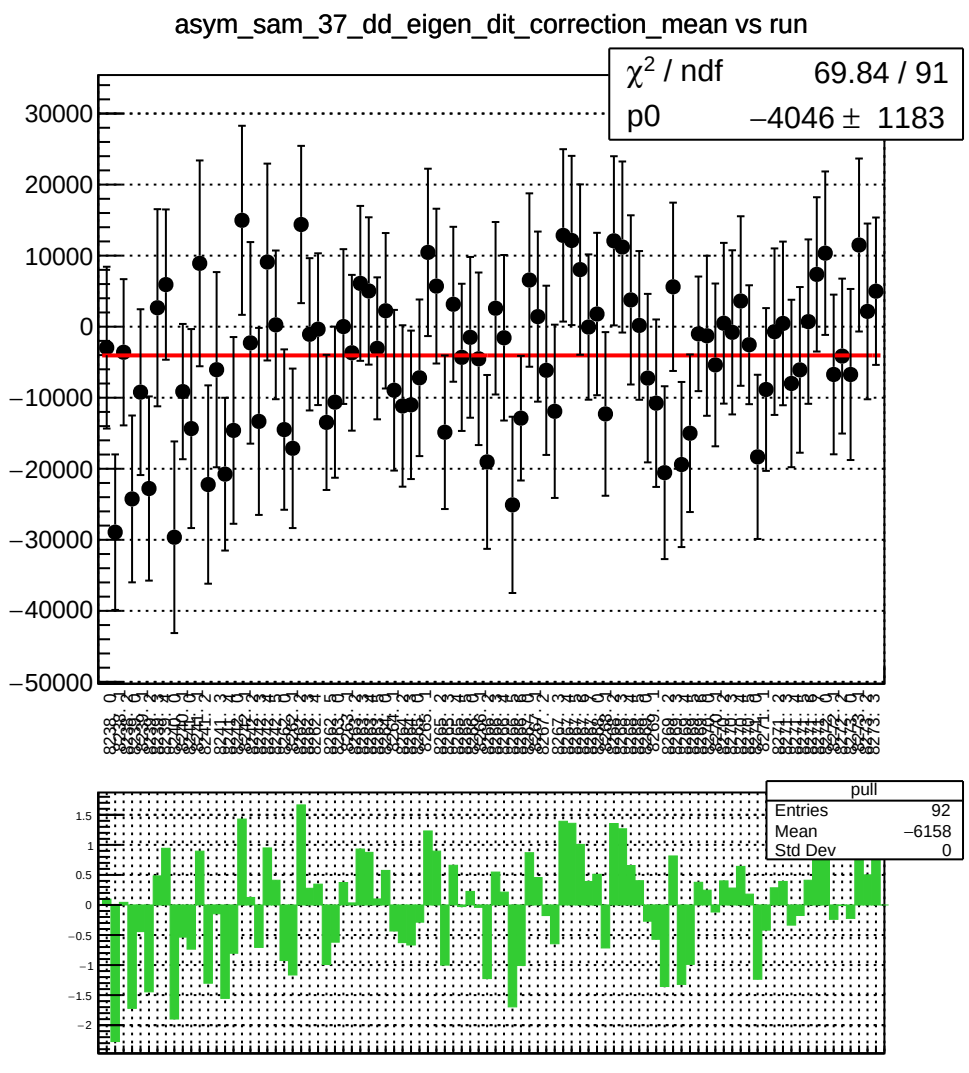

pull1D
Entries 92
Mean −0.0009636
Std Dev 0.8713

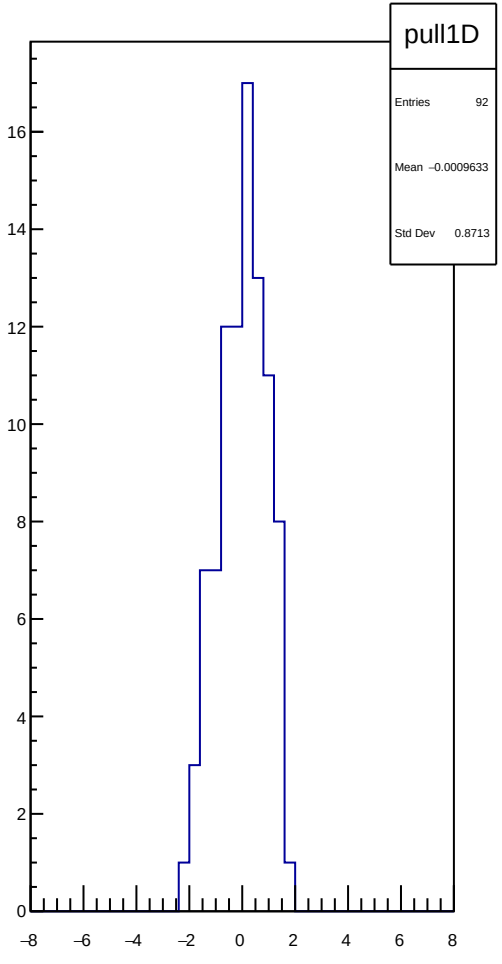

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 9273 / 91
p0 1114 ± 0.8367
1400
1350
1300
1250
1200
1150
1100
1050
1000
950

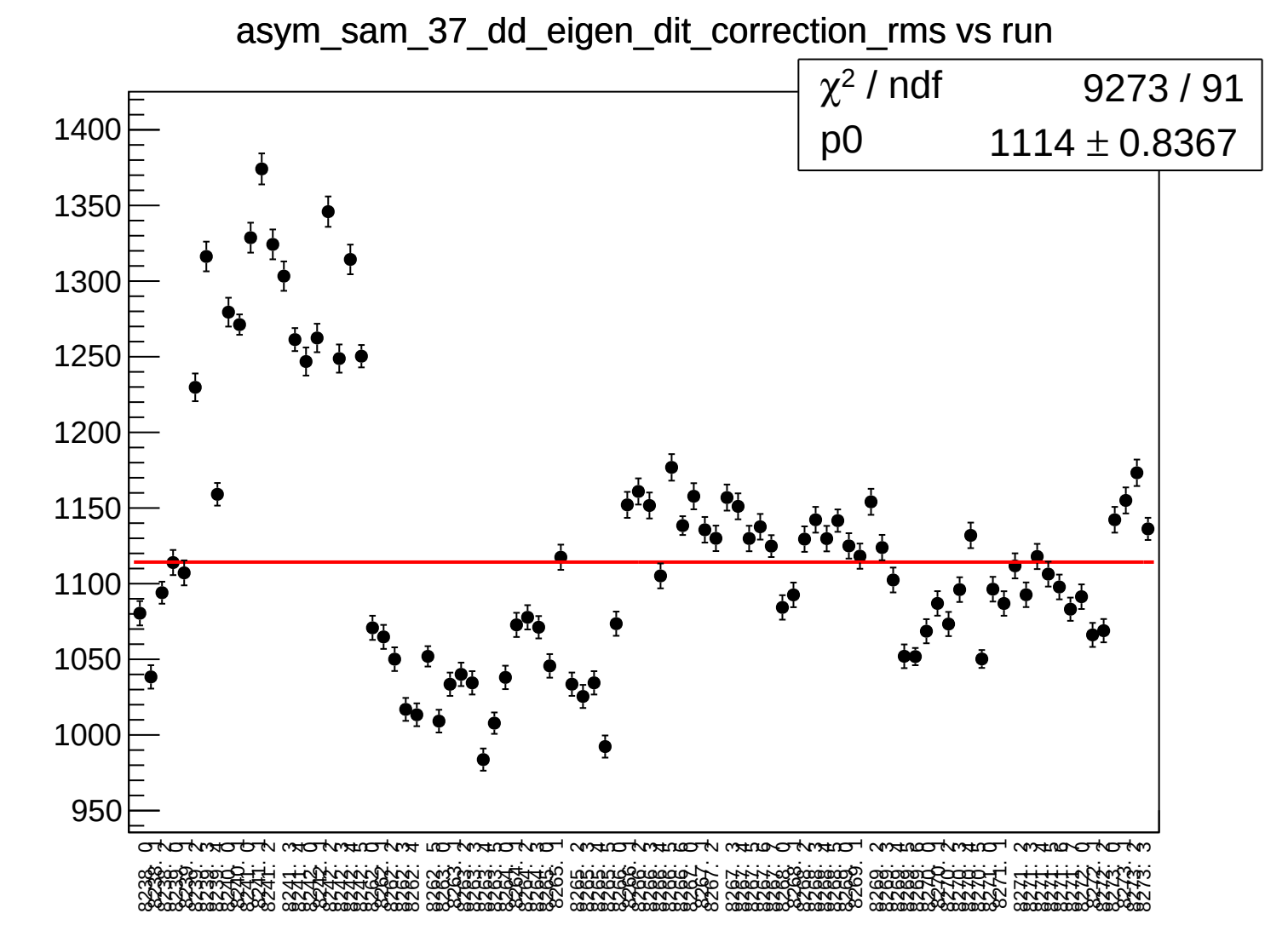

eigen_dit_asym_sam_37_dd_mean vs run
$\chi^2$ / ndf 71.11 / 91
p0 332.6 ± 140.1
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −114
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

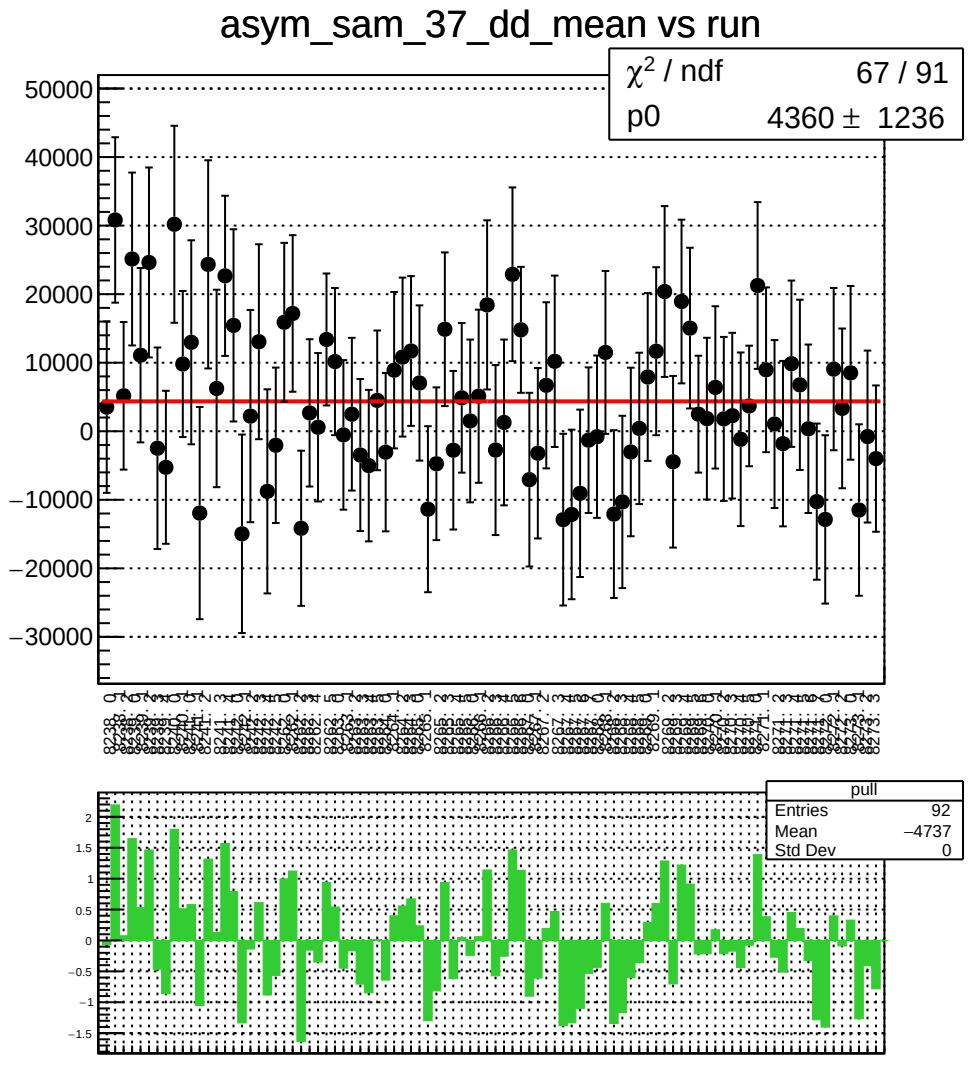

pull1D
Entries 92
Mean −0.005355
Std Dev 0.8792
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

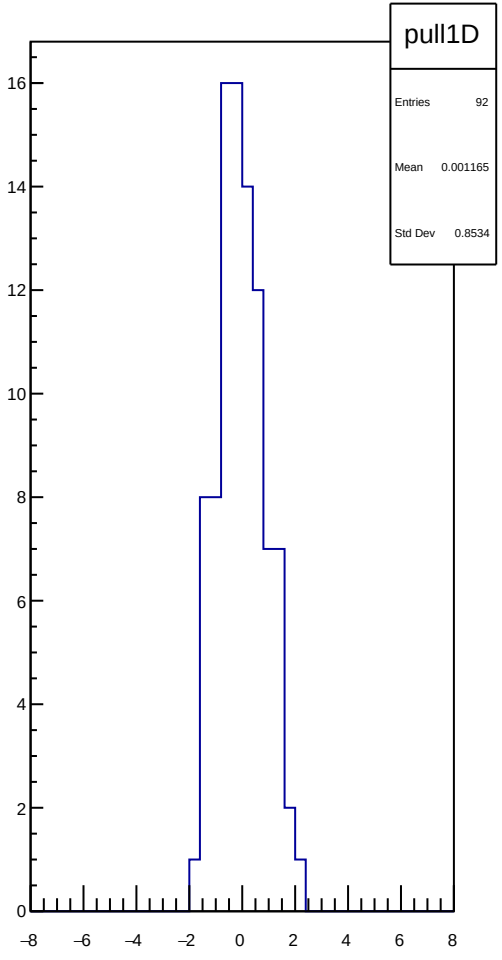

eigen_dit_asym_sam_37_dd_rms vs run
$\chi^2$ / ndf 4.688e+04 / 91
p0 130.5 ± 0.09907
240
220
200
180
160
140
120
100

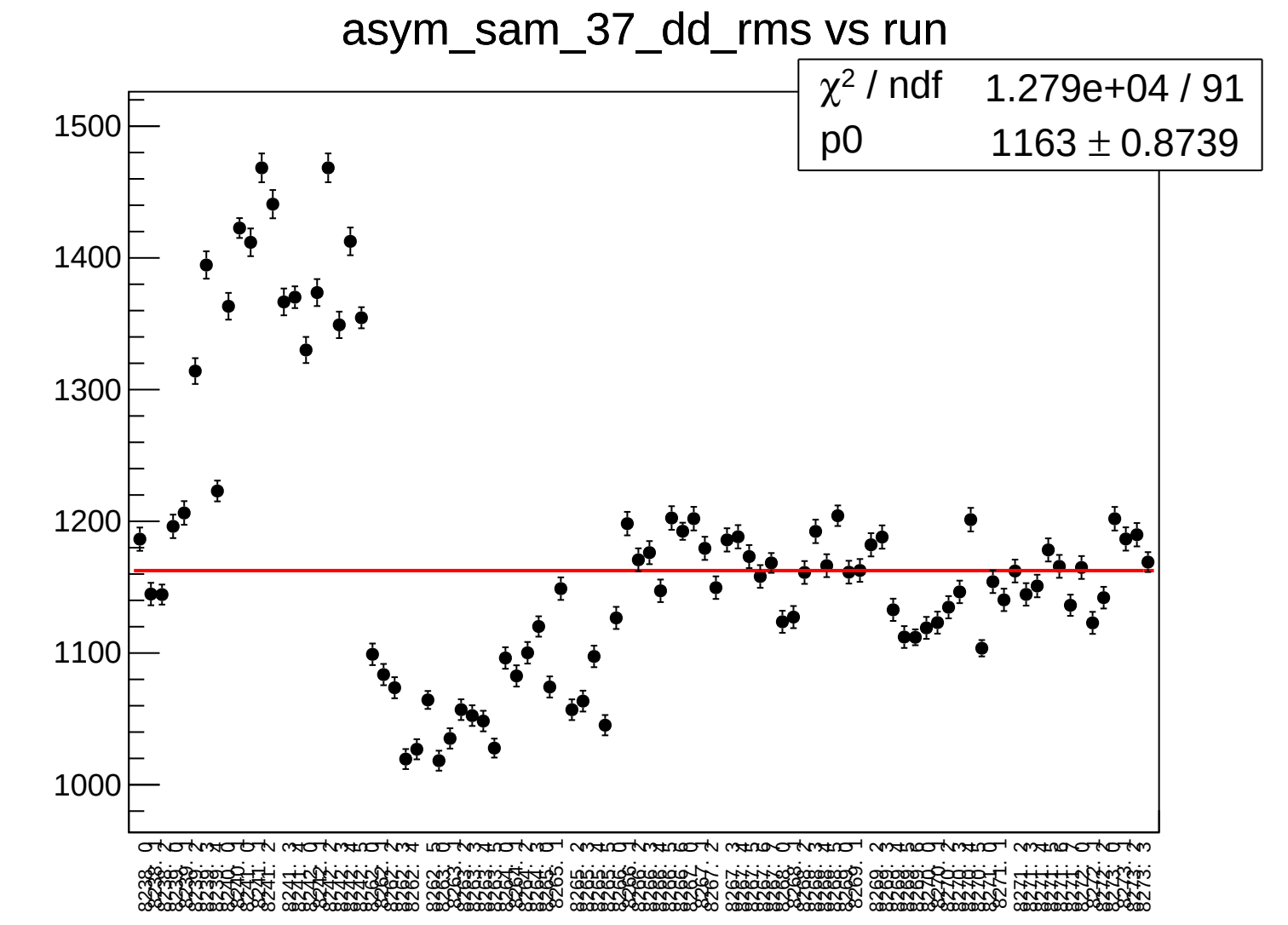

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.84 / 91
p0 −4046 ± 1183
pull
Entries 92
Mean −6158
Std Dev 0

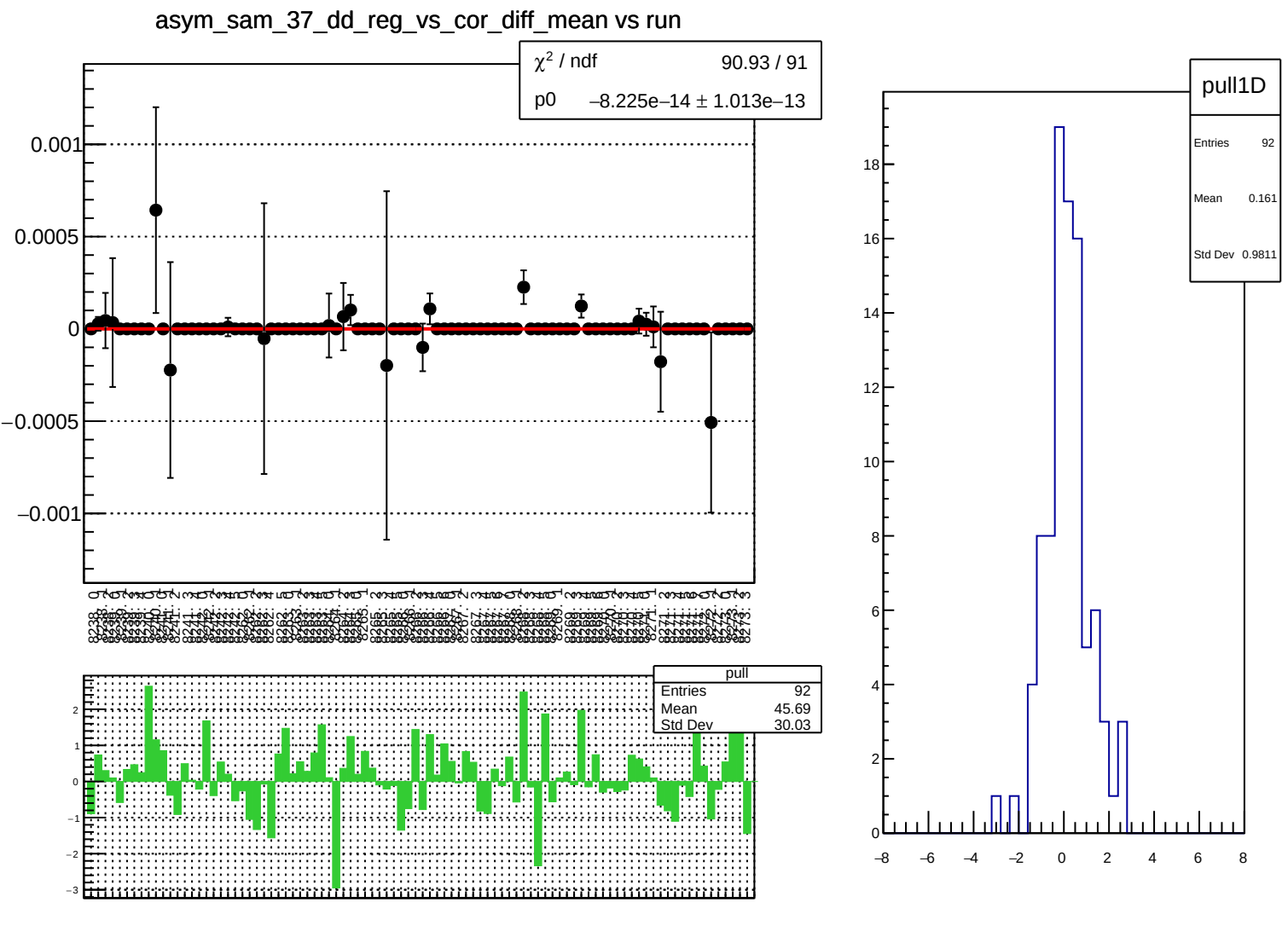

pull1D
Entries 92
Mean −0.0009633
Std Dev 0.8713

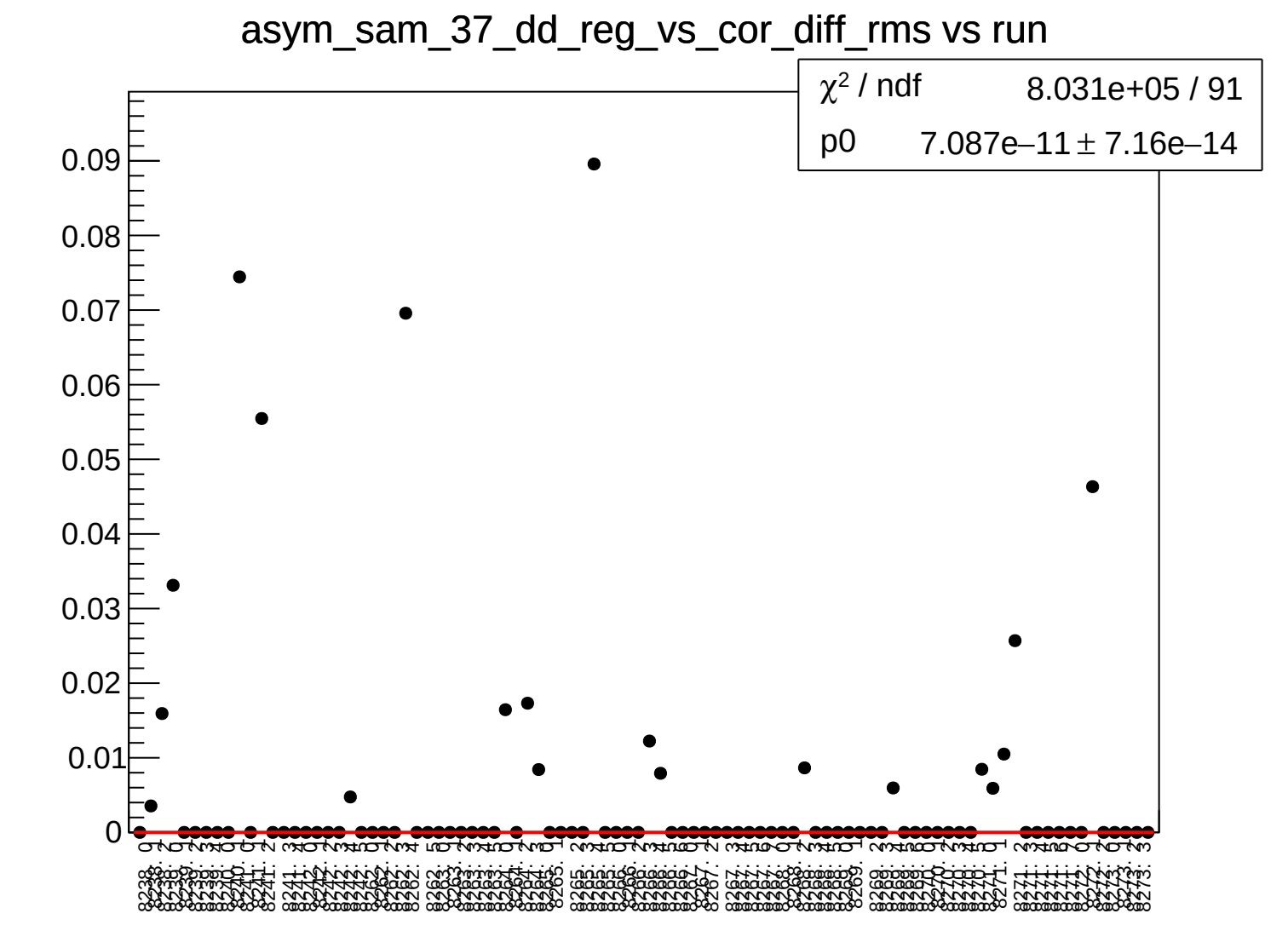

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 9273 / 91
p0 1114 ± 0.8367
1400
1350
1300
1250
1200
1150
1100
1050
1000
950

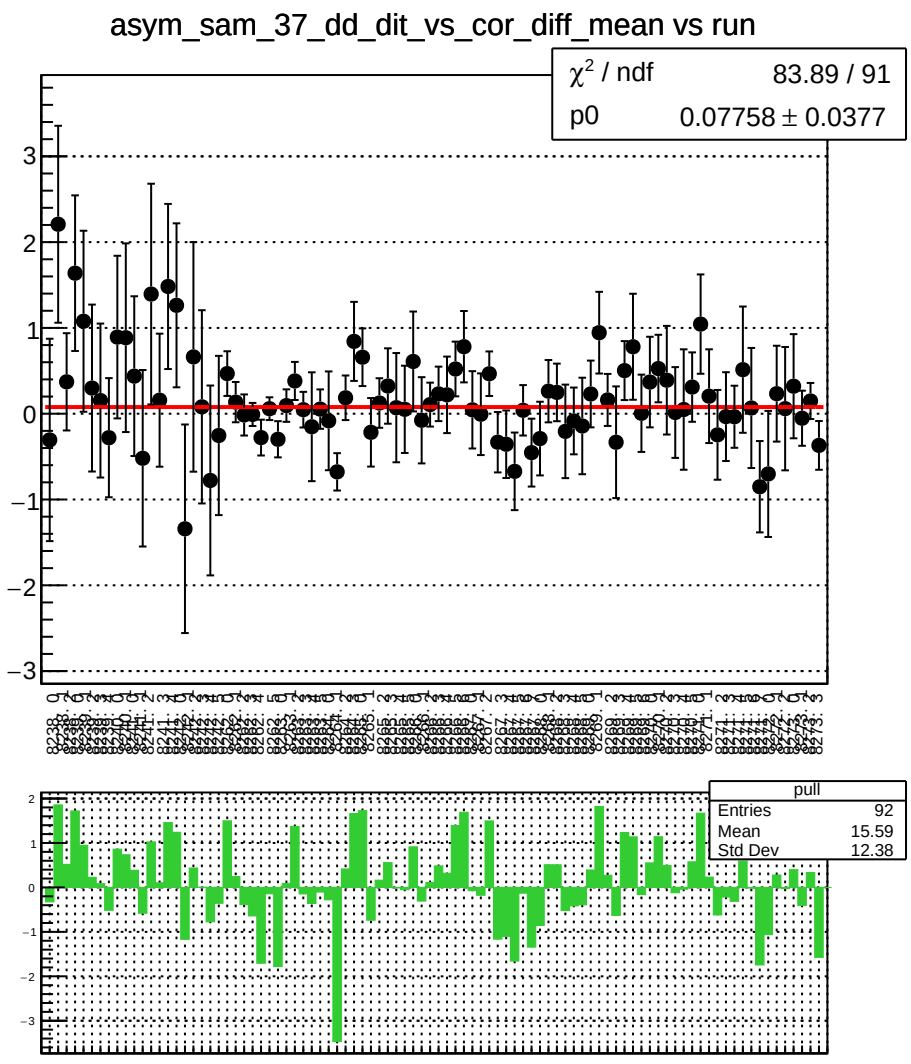

asym_sam_37_dd_mean vs run
χ² / ndf 67 / 91
p0 4360 ± 1236
pull
Entries 92
Mean −4737
Std Dev 0

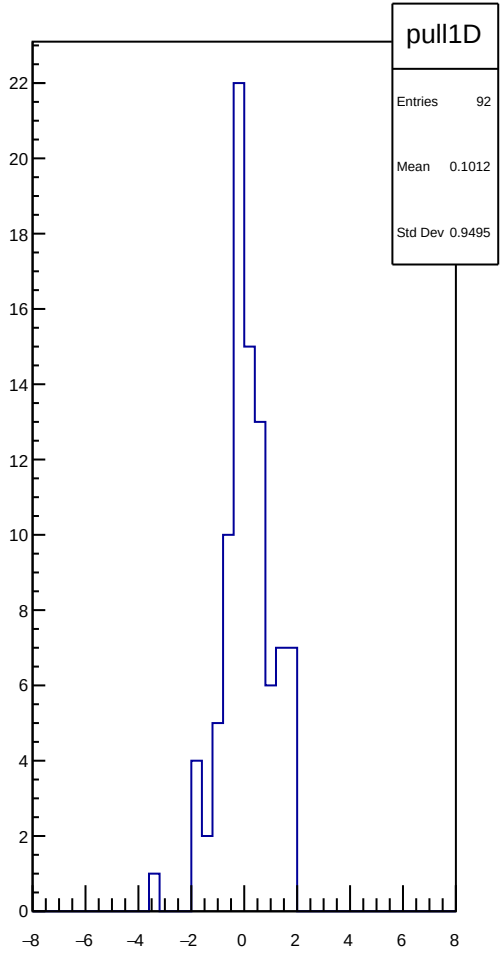

pull1D
Entries 92
Mean 0.001165
Std Dev 0.8534

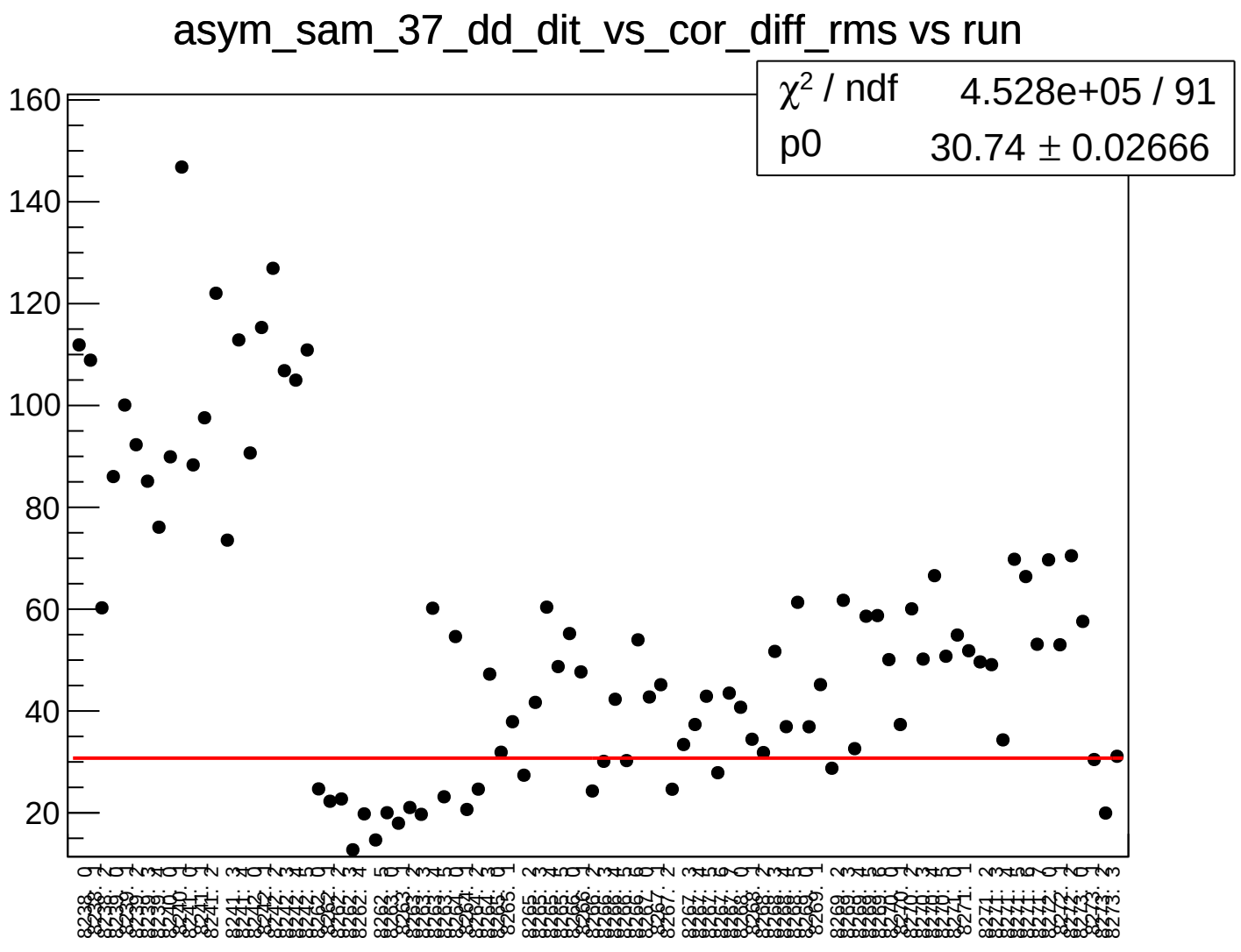

asym_sam_37_dd_rms vs run
χ² / ndf 1.279e+04 / 91
p0 1163 ± 0.8739
1500
1400
1300
1200
1100
1000

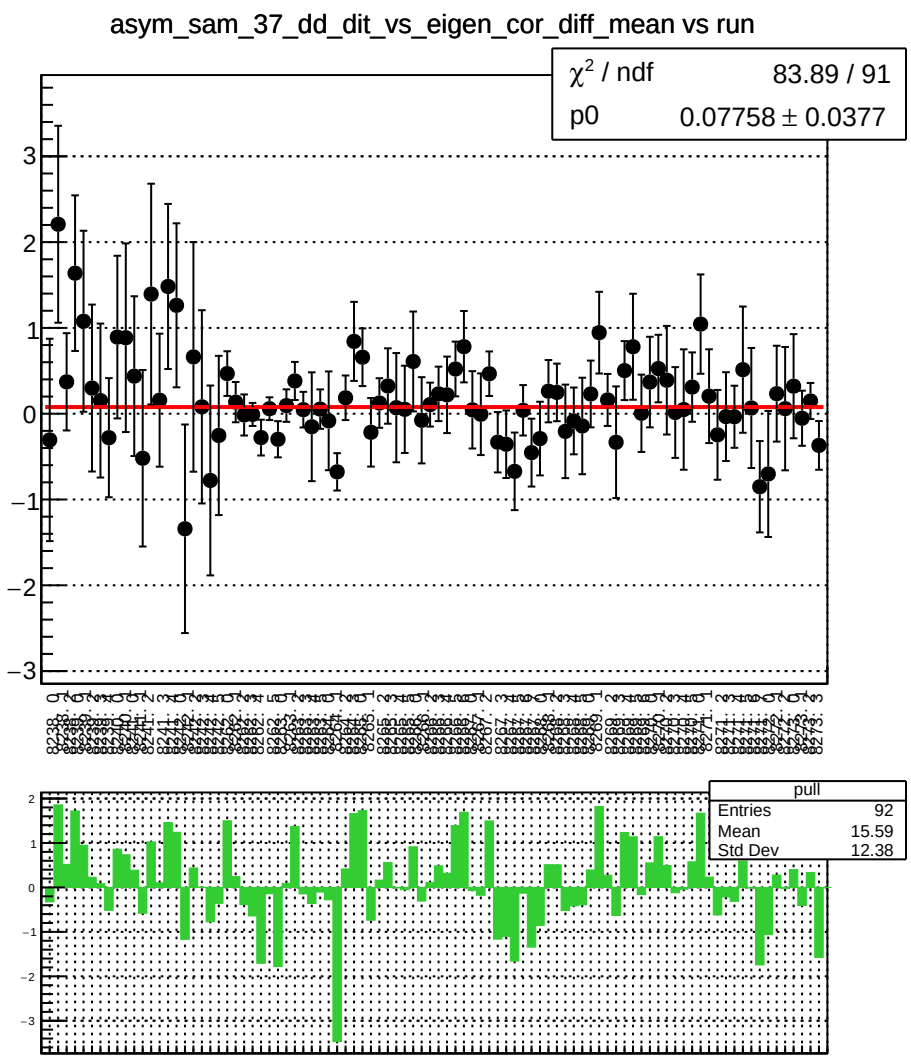

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.93 / 91
p0 −8.225e−14 ± 1.013e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 45.69
Std Dev 30.03
pull1D
Entries 92
Mean 0.161
Std Dev 0.9811

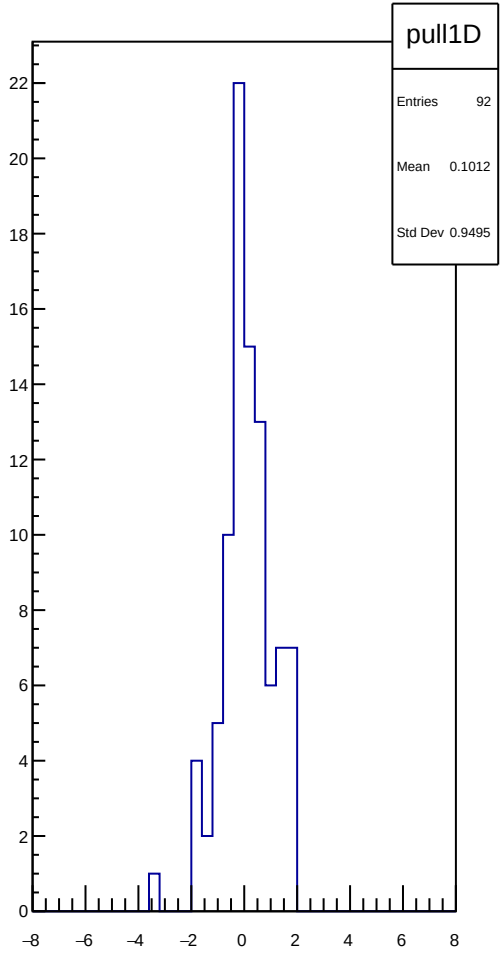

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.031e+05 / 91
p0 7.087e−11 ± 7.16e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

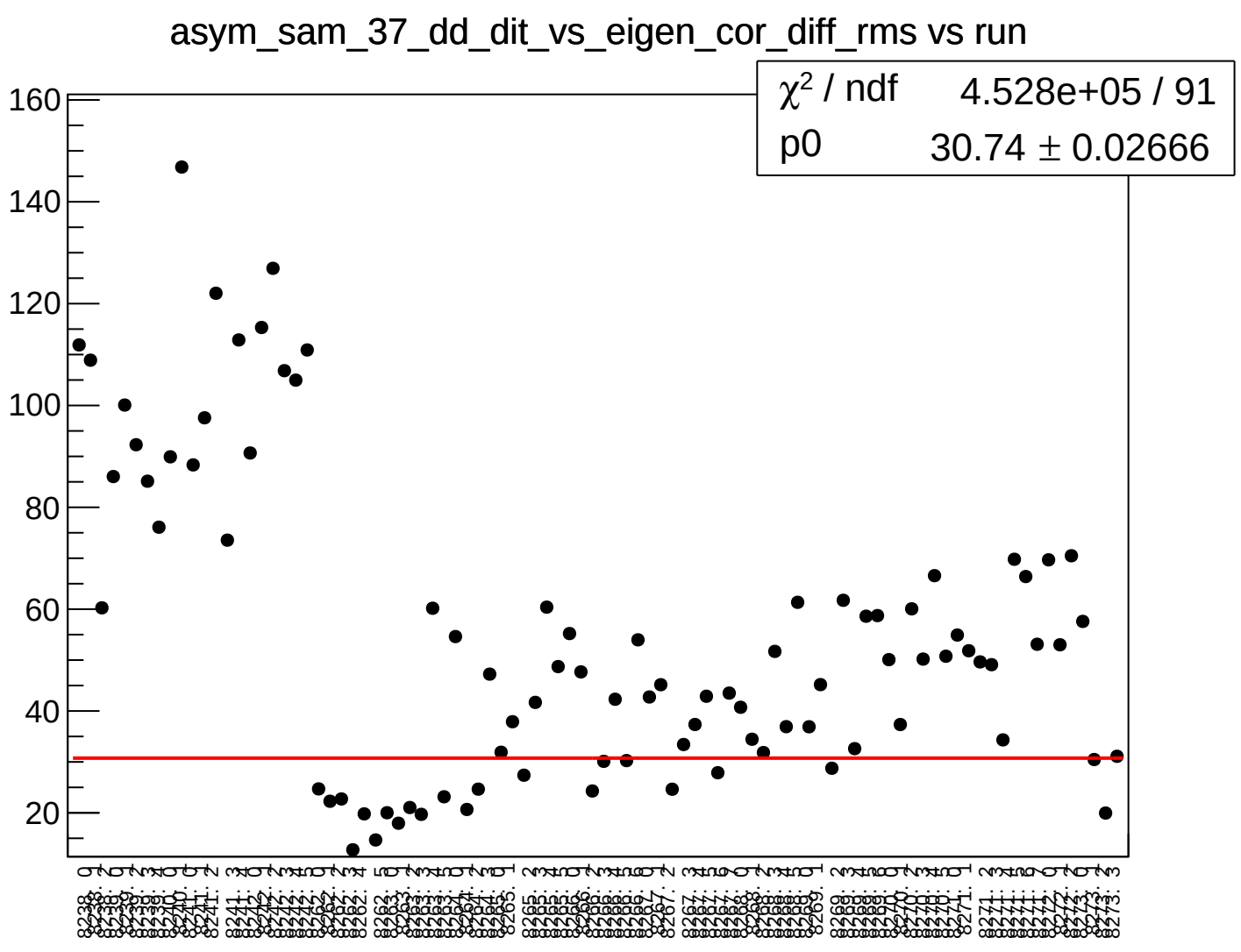

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
$\chi^2$ / ndf 83.89 / 91
p0 0.07758 ± 0.0377
pull
Entries 92
Mean 15.59
Std Dev 12.38

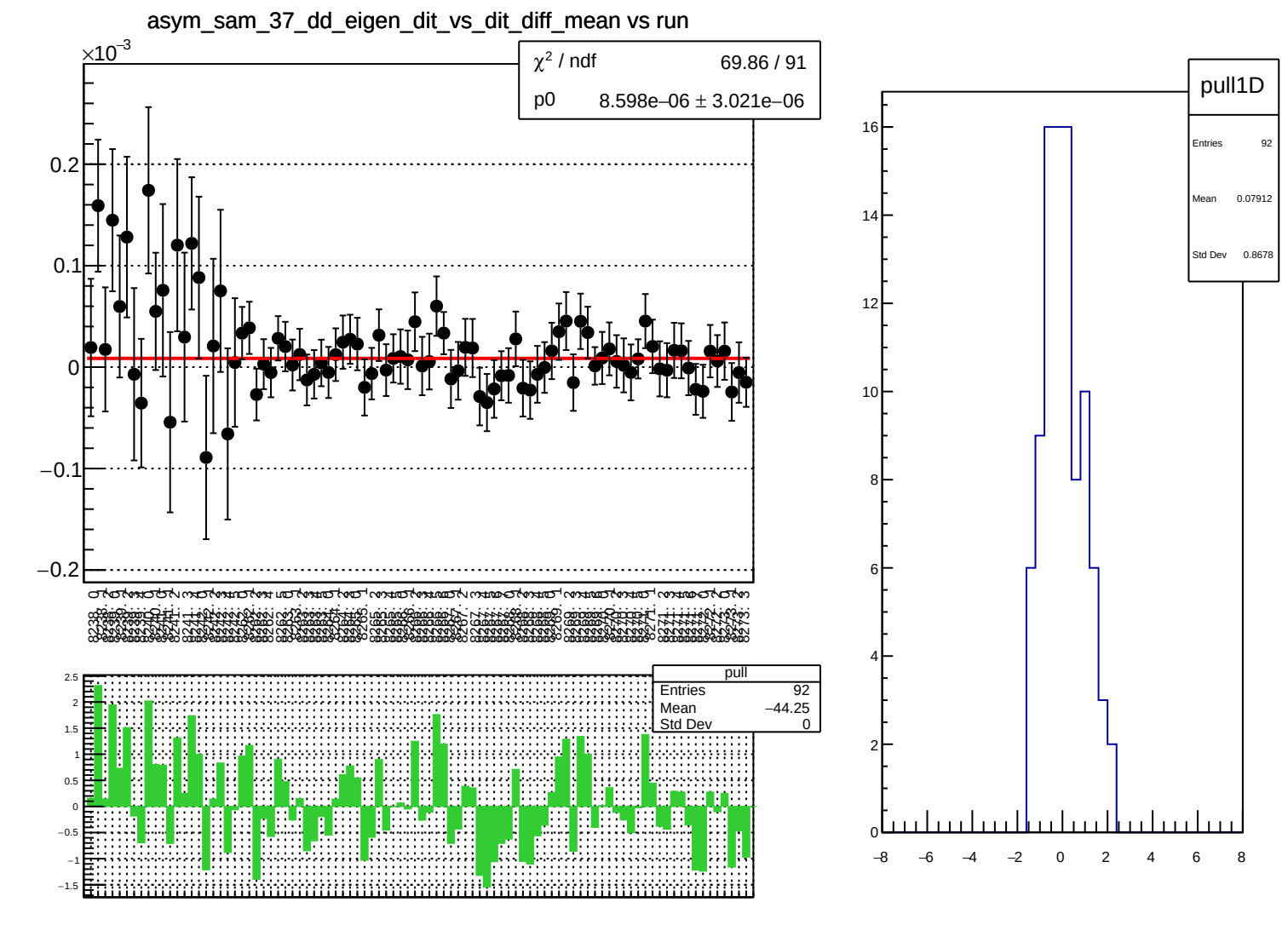

pull1D
Entries 92
Mean 0.1012
Std Dev 0.9495

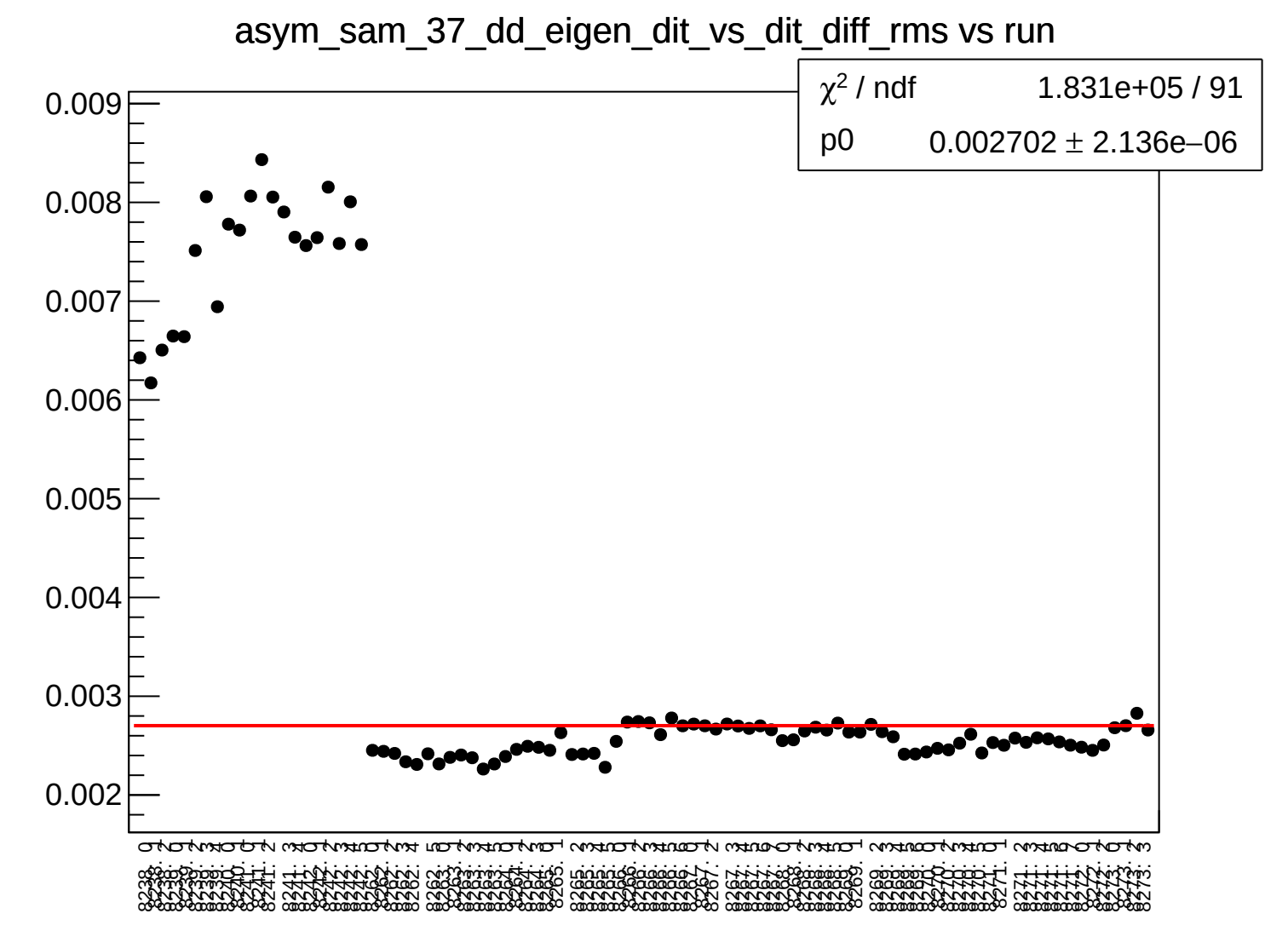

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.528e+05 / 91
p0 30.74 ± 0.02666
160
140
120
100
80
60
40
20

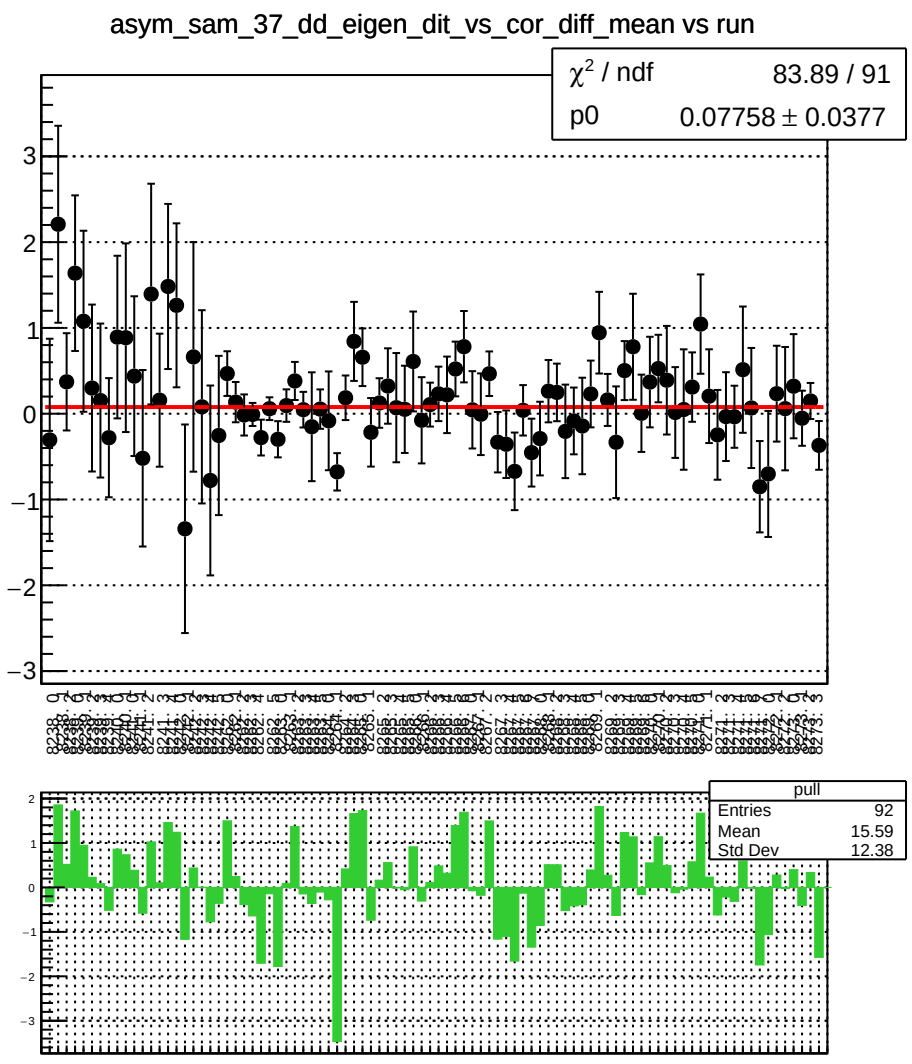

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.89 / 91
p0 0.07758 ± 0.0377
pull
Entries 92
Mean 15.59
Std Dev 12.38

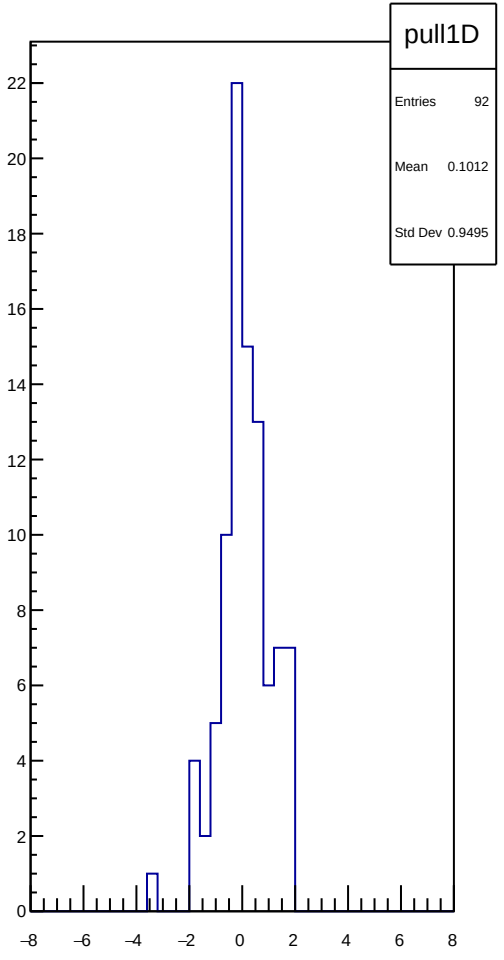

pull1D
Entries 92
Mean 0.1012
Std Dev 0.9495

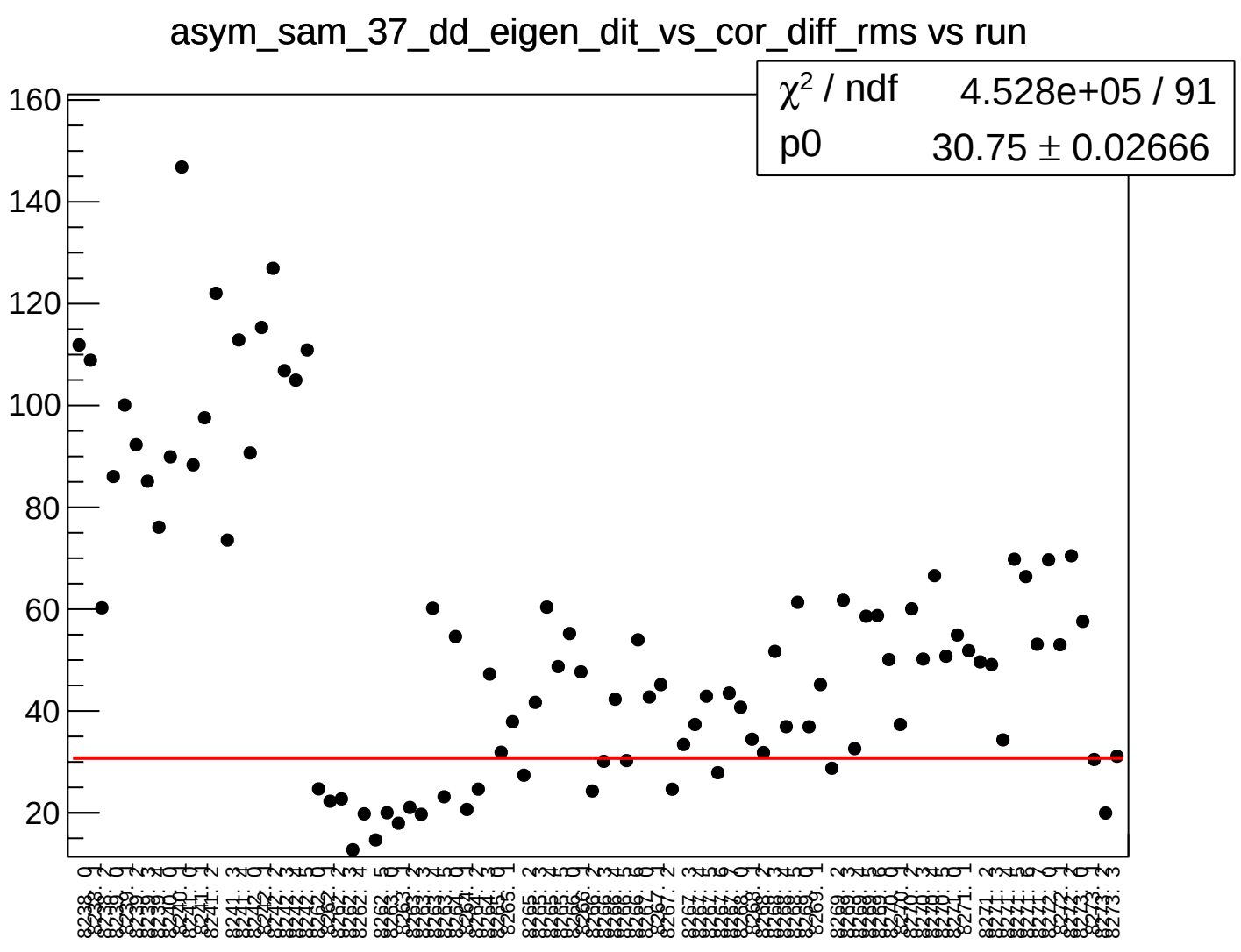

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.528e+05 / 91
p0 30.74 ± 0.02666
160
140
120
100
80
60
40
20

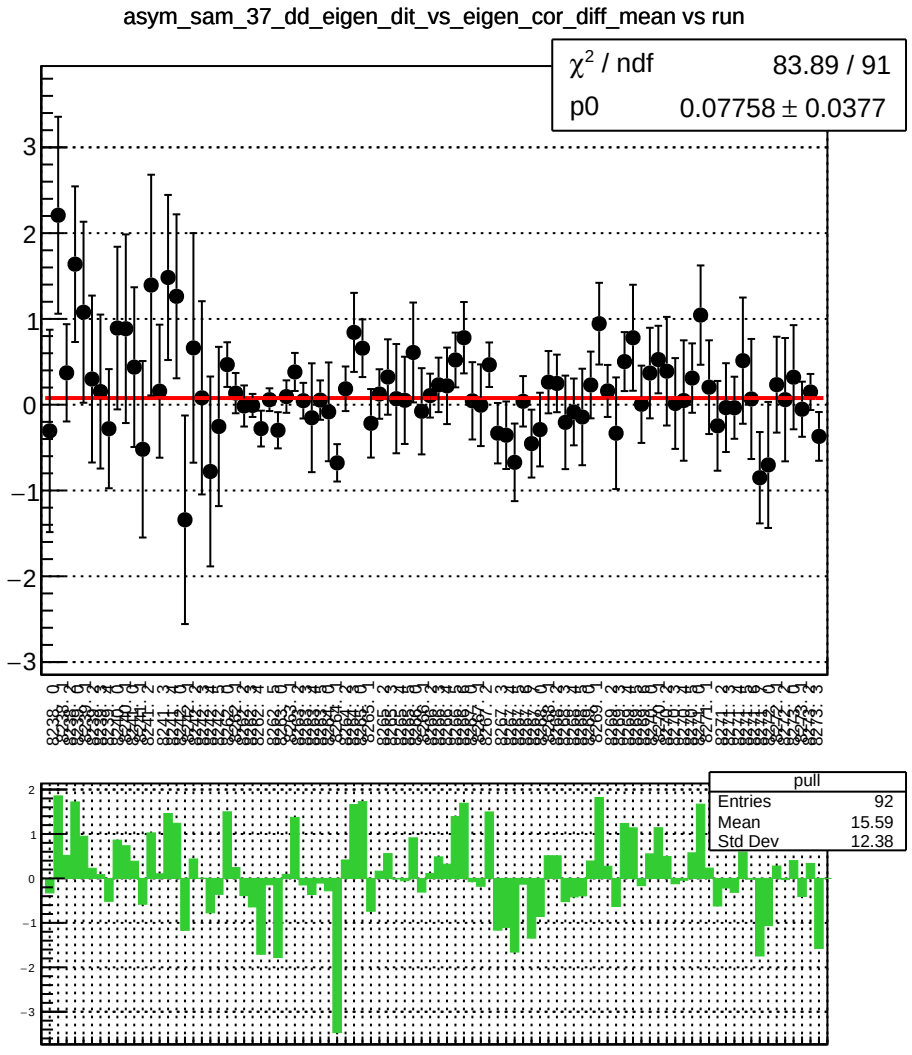

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.86 / 91
p0 8.598e−06 ± 3.021e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 92
Mean −44.25
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean 0.07912
Std Dev 0.8678
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

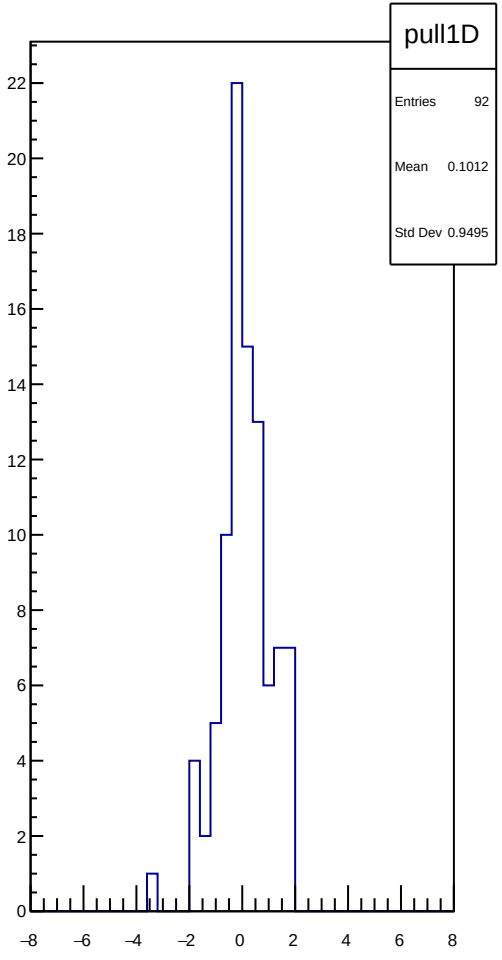

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.831e+05 / 91
p0 0.002702 ± 2.136e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

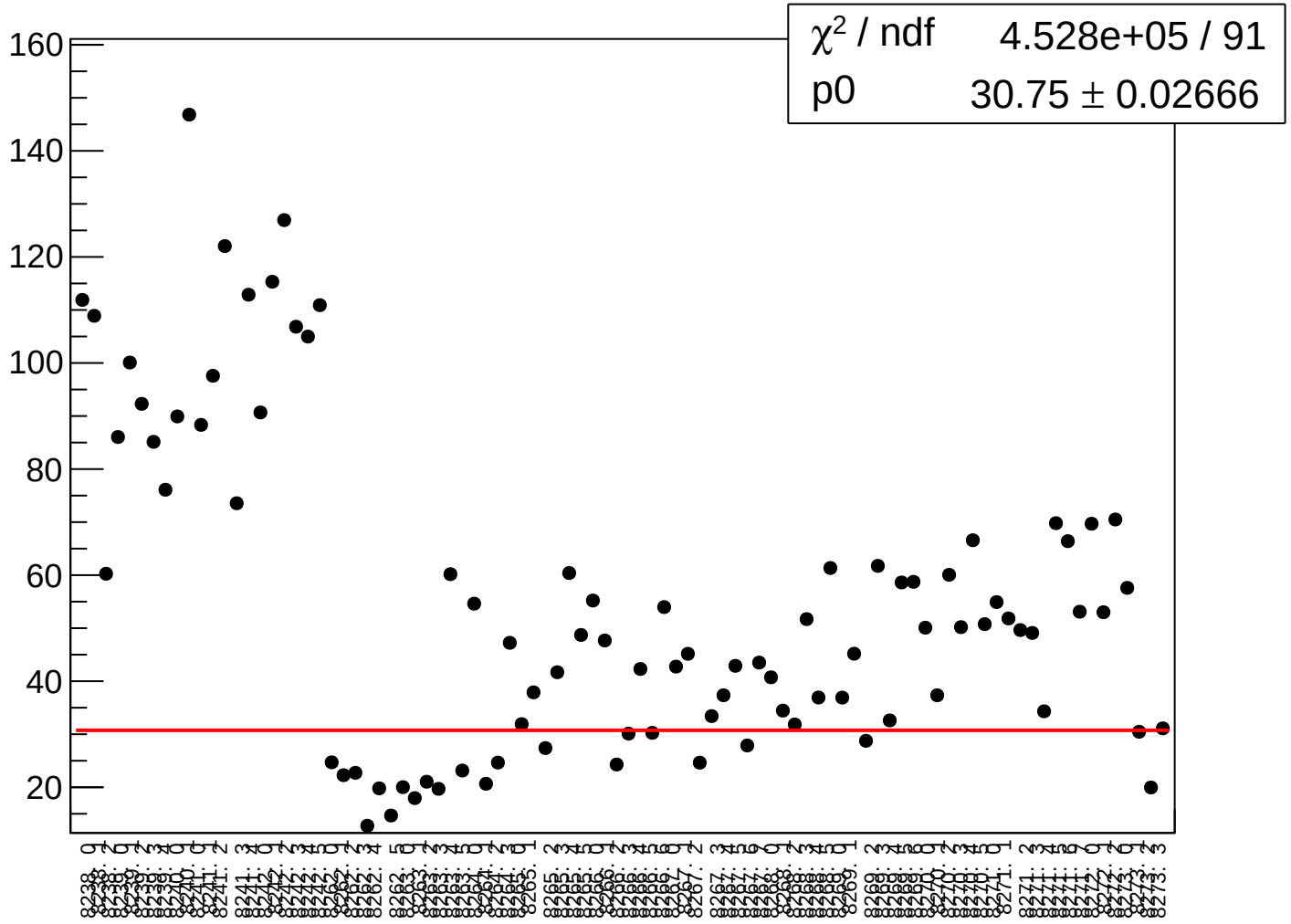

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.89 / 91
p0 0.07758 ± 0.0377
pull
Entries 92
Mean 15.59
Std Dev 12.38

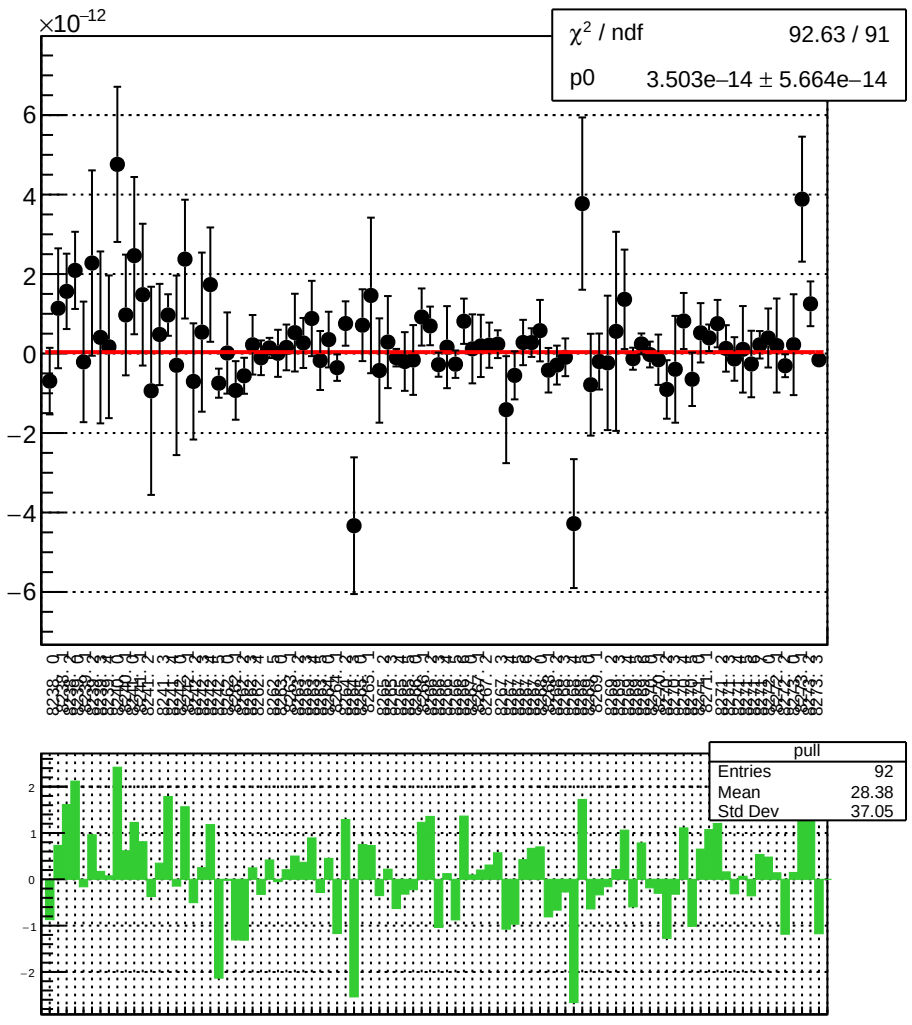

pull1D
Entries 92
Mean 0.1012
Std Dev 0.9495

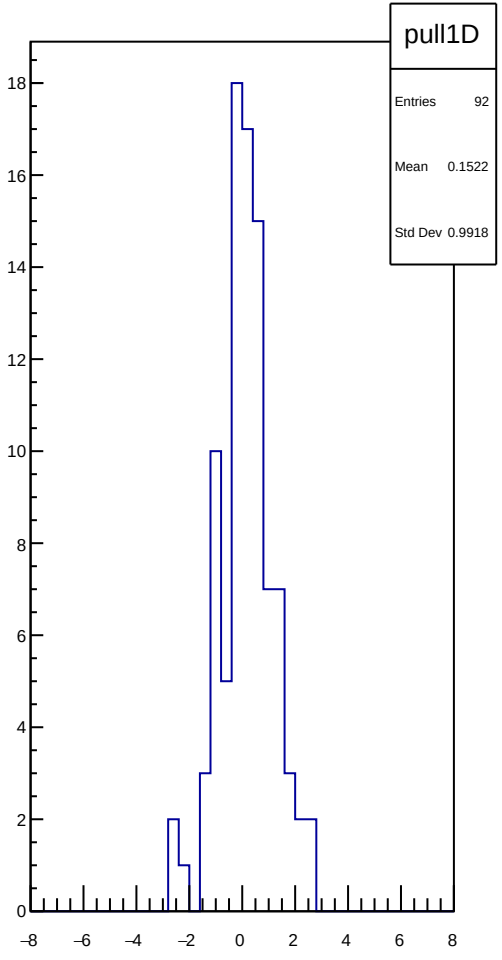

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.528e+05 / 91
p0 30.75 ± 0.02666
160
140
120
100
80
60
40
20

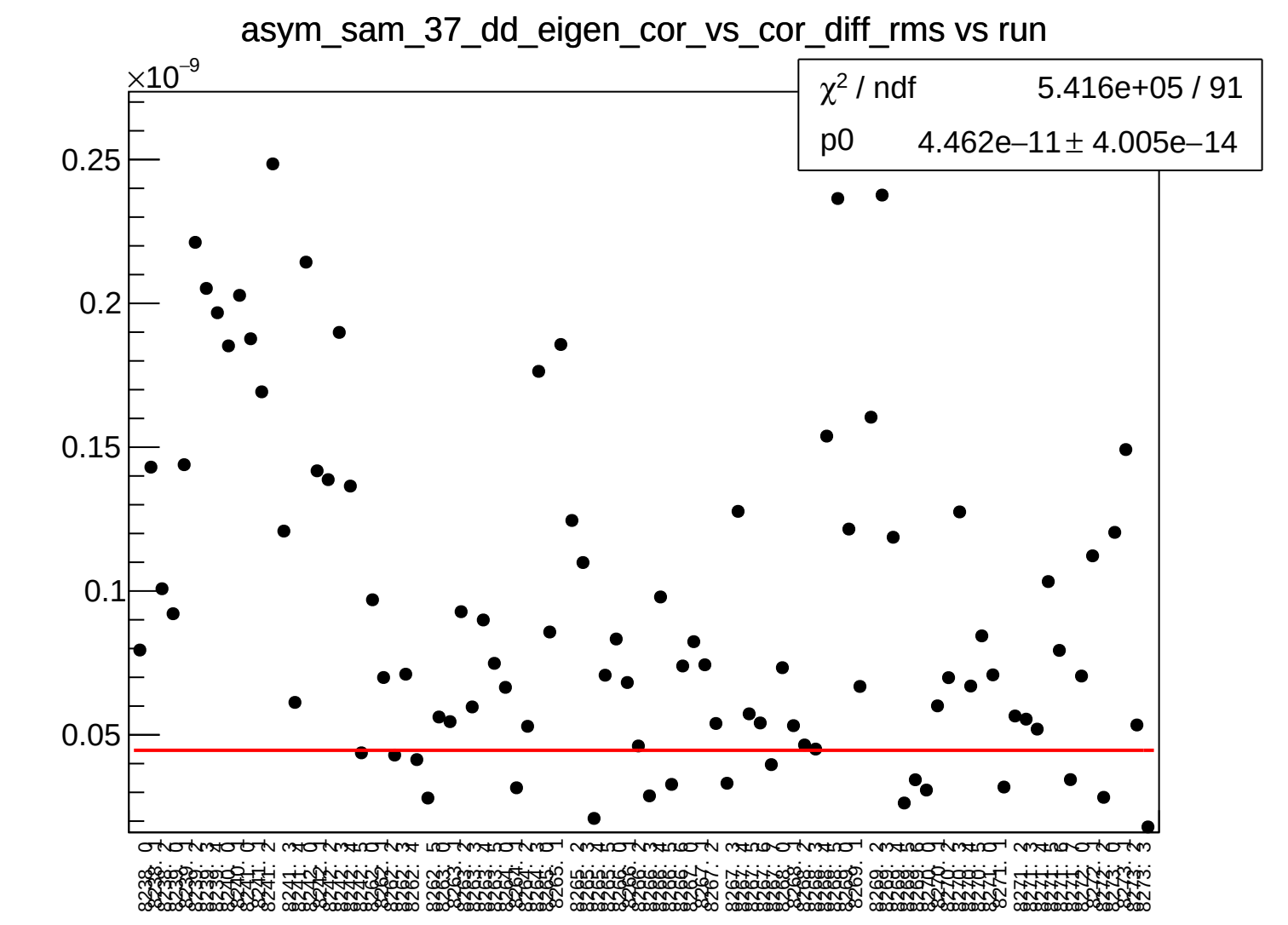

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.89 / 91
p0 0.07758 ± 0.0377
pull
Entries 92
Mean 15.59
Std Dev 12.38

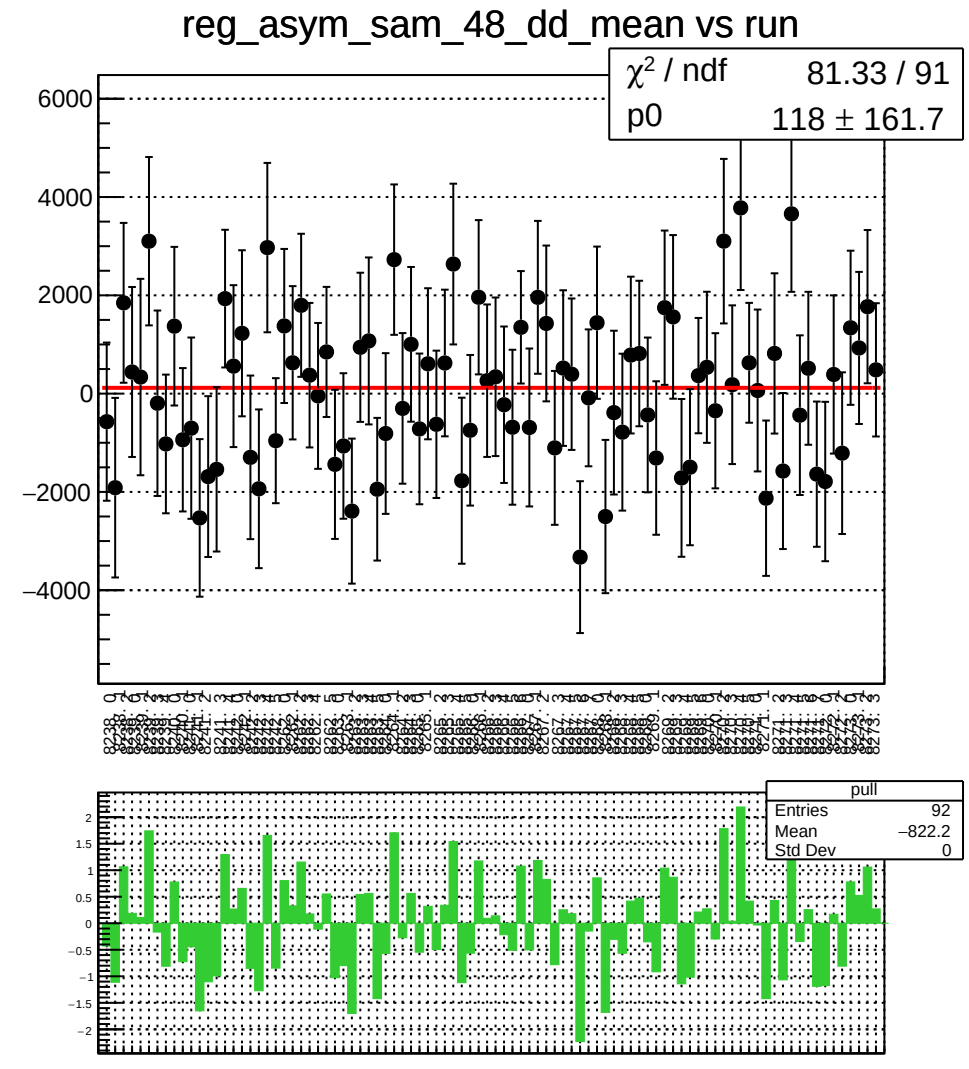

pull1D
Entries 92
Mean 0.1012
Std Dev 0.9495

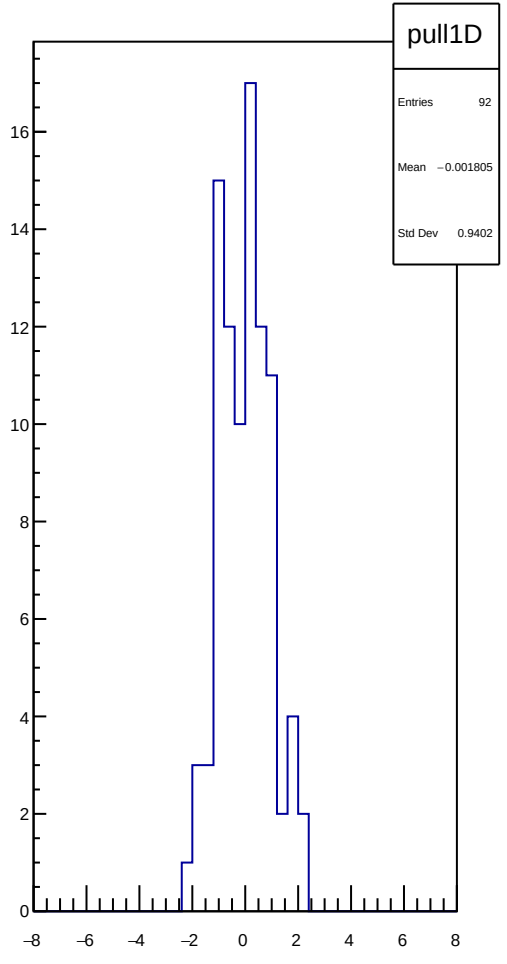

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.528e+05 / 91
p0 30.75 ± 0.02666
160
140
120
100
80
60
40
20

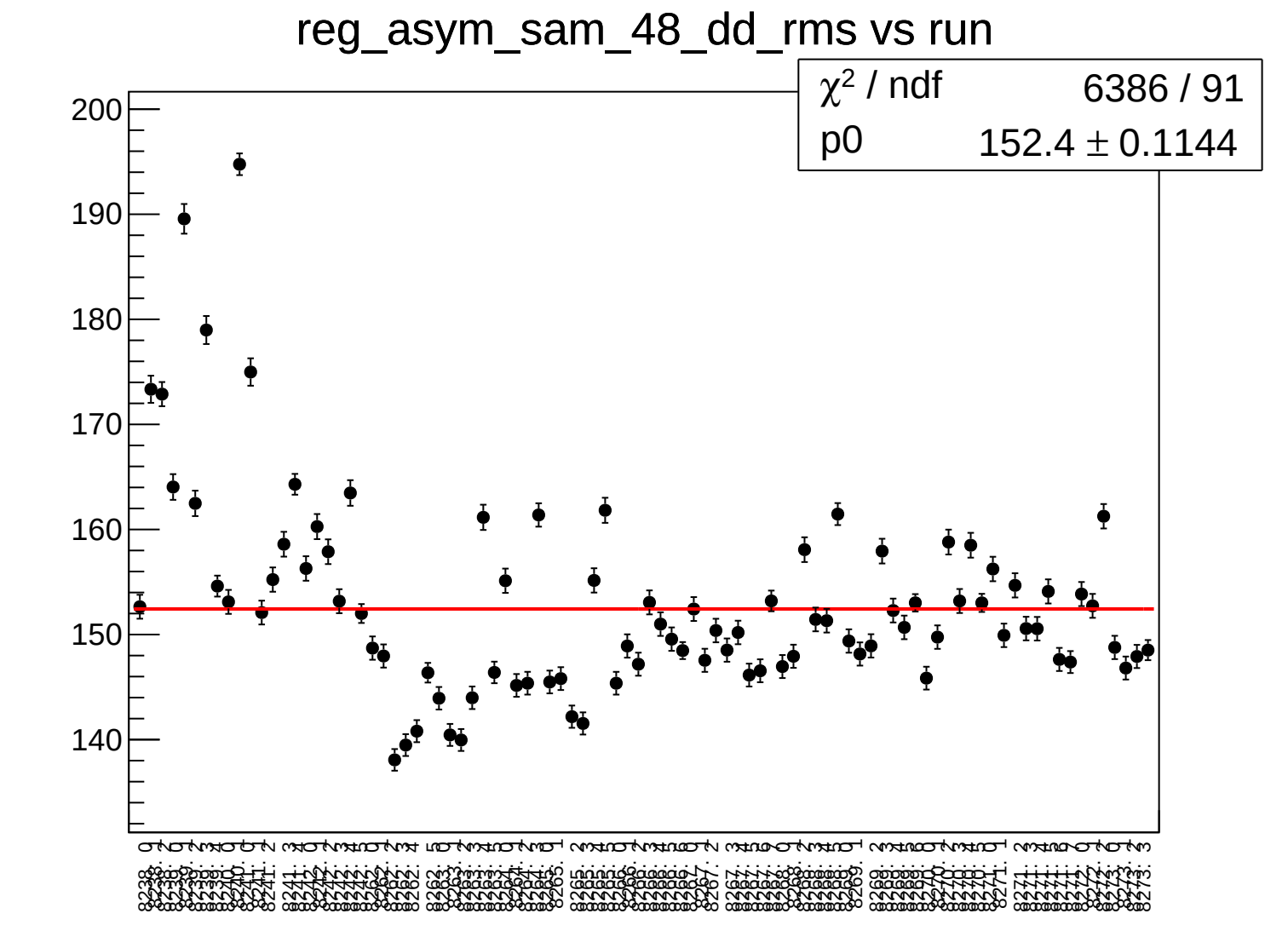

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.63 / 91
p0 3.503e−14 ± 5.664e−14
pull
Entries 92
Mean 28.38
Std Dev 37.05

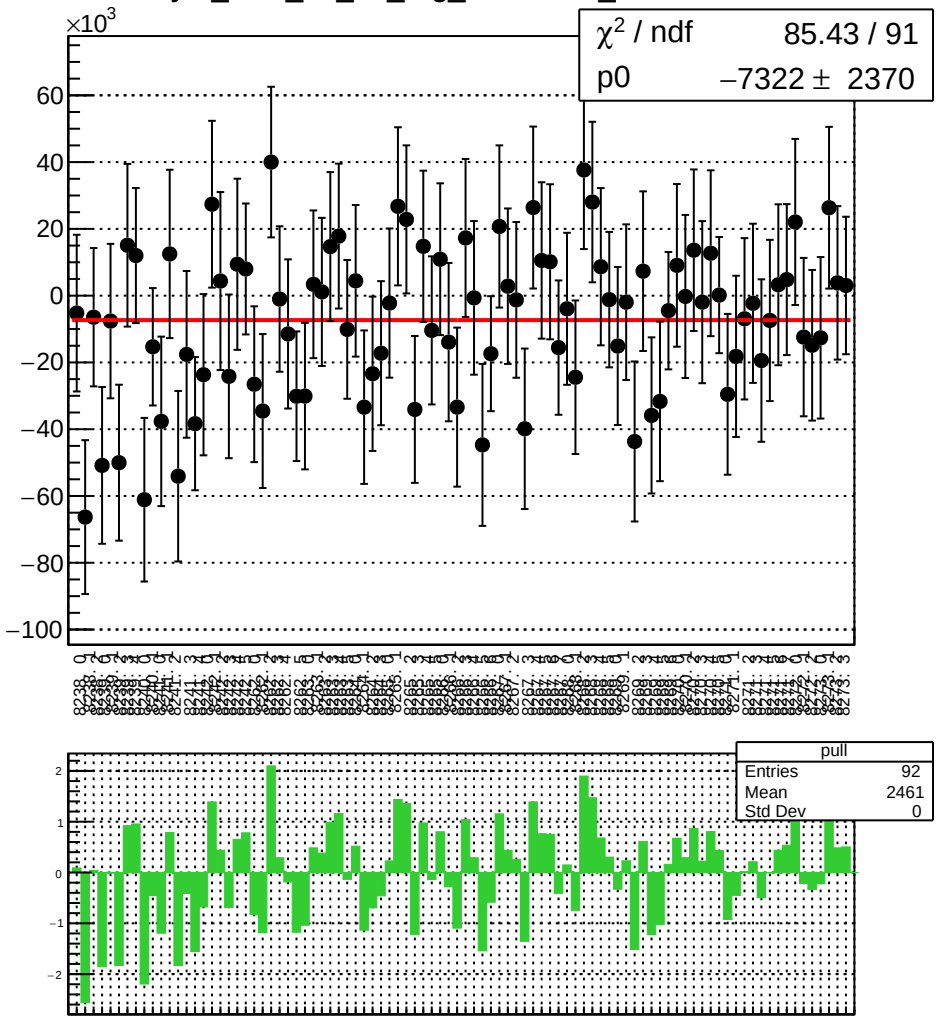

pull1D
Entries 92
Mean 0.1522
Std Dev 0.9918

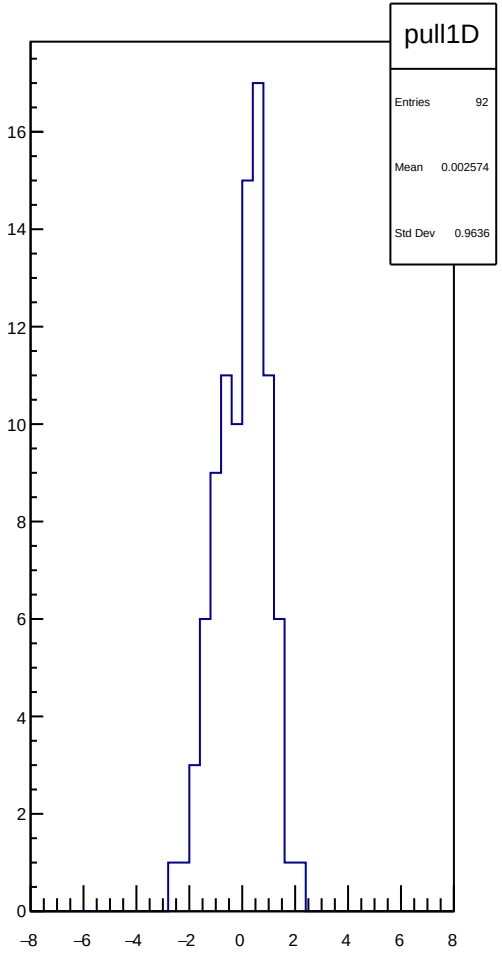

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.416e+05 / 91
p0 4.462e−11 ± 4.005e−14
0.25
0.2
0.15
0.1
0.05

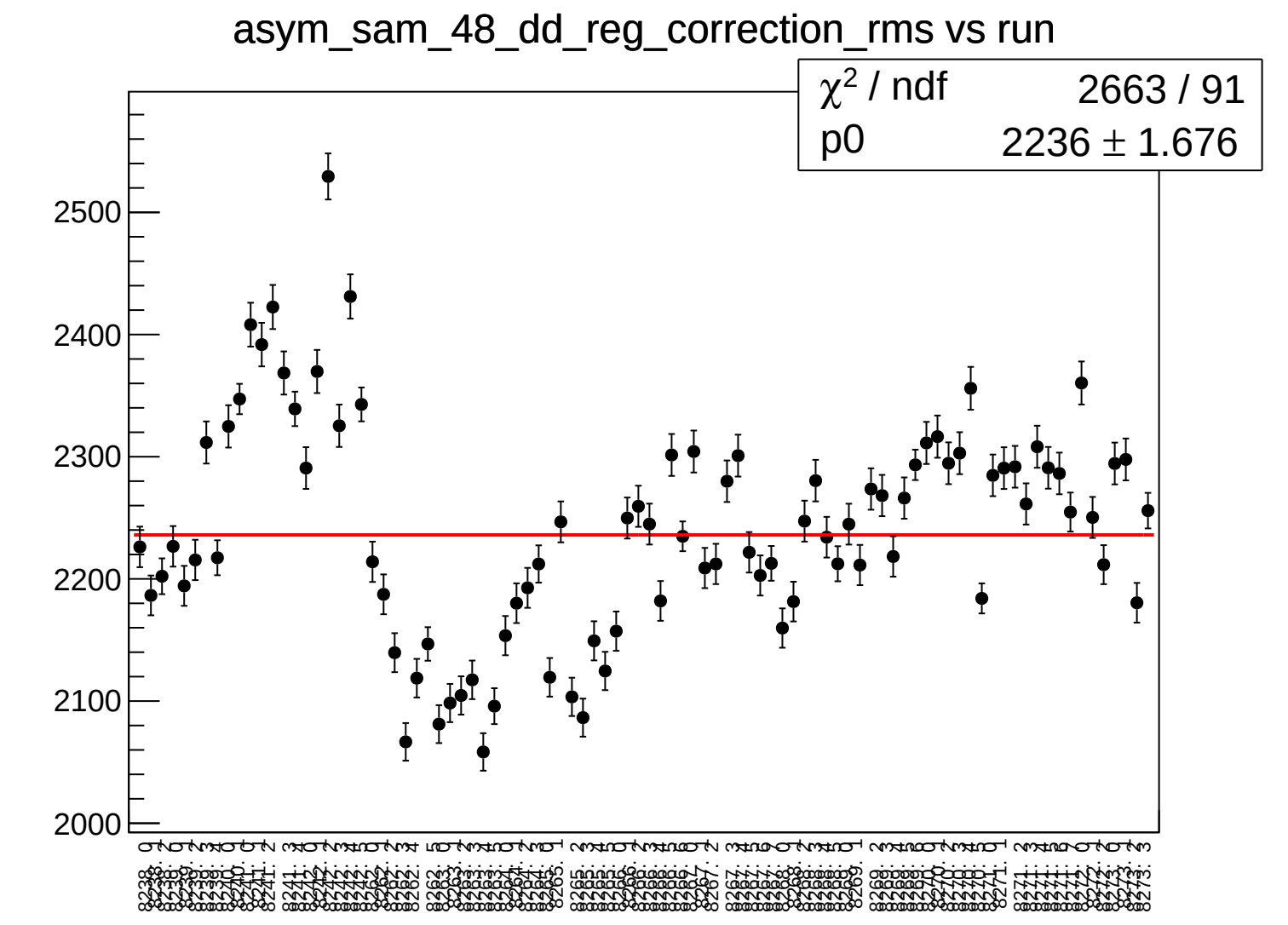

reg_asym_sam_48_dd_mean vs run
χ² / ndf 81.33 / 91
p0 118 ± 161.7
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −822.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

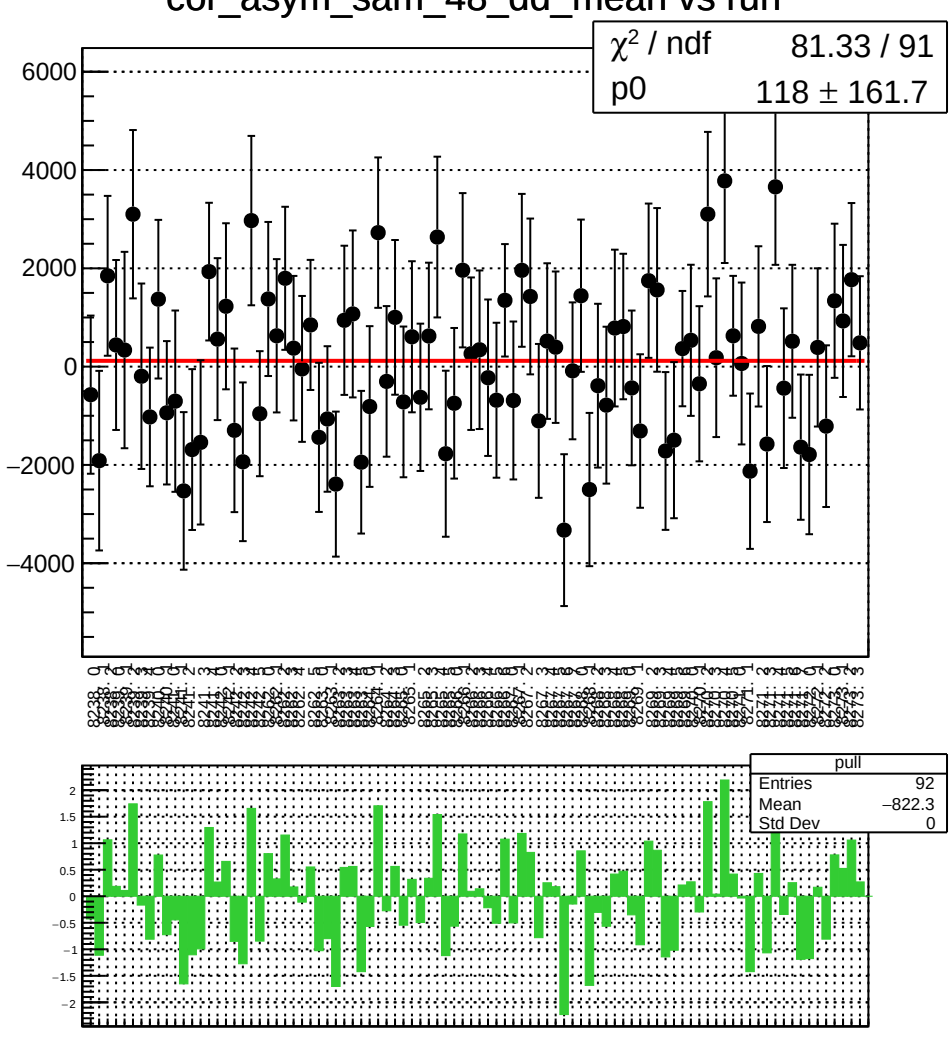

pull1D
Entries 92
Mean −0.001805
Std Dev 0.9402
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

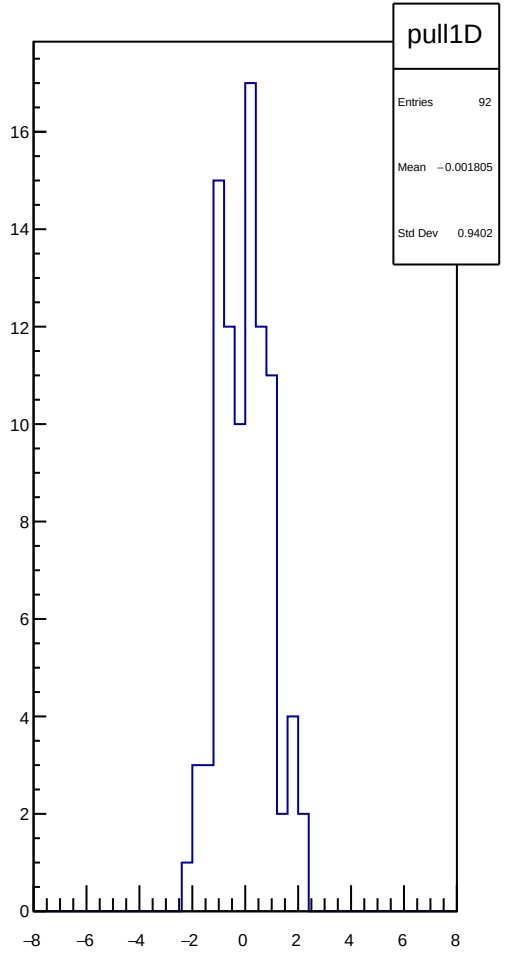

reg_asym_sam_48_dd_rms vs run
χ² / ndf 6386 / 91
p0 152.4 ± 0.1144
200
190
180
170
160
150
140

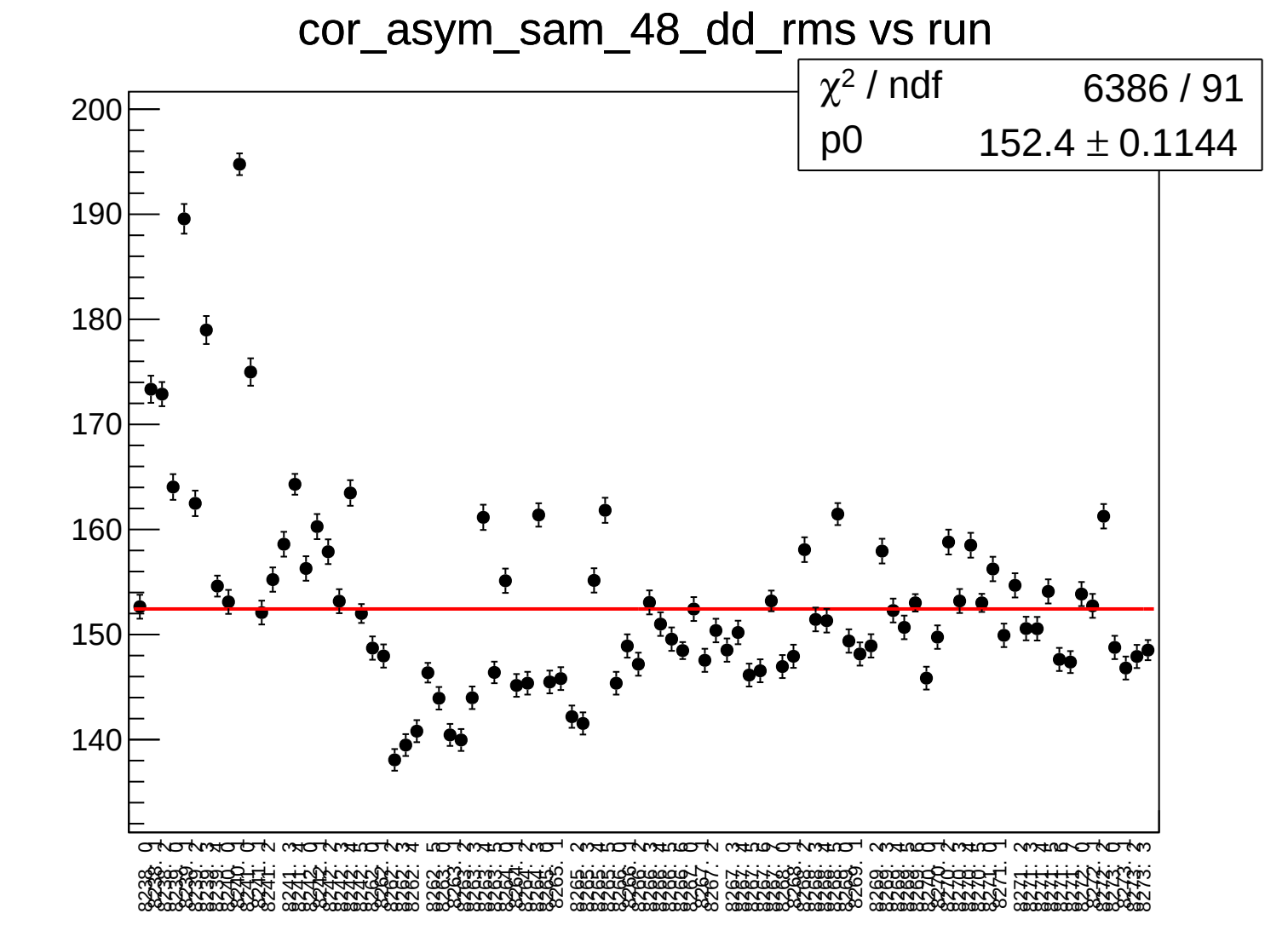

asym_sam_48_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 85.43 / 91
p0 −7322 ± 2370
pull
Entries 92
Mean 2461
Std Dev 0

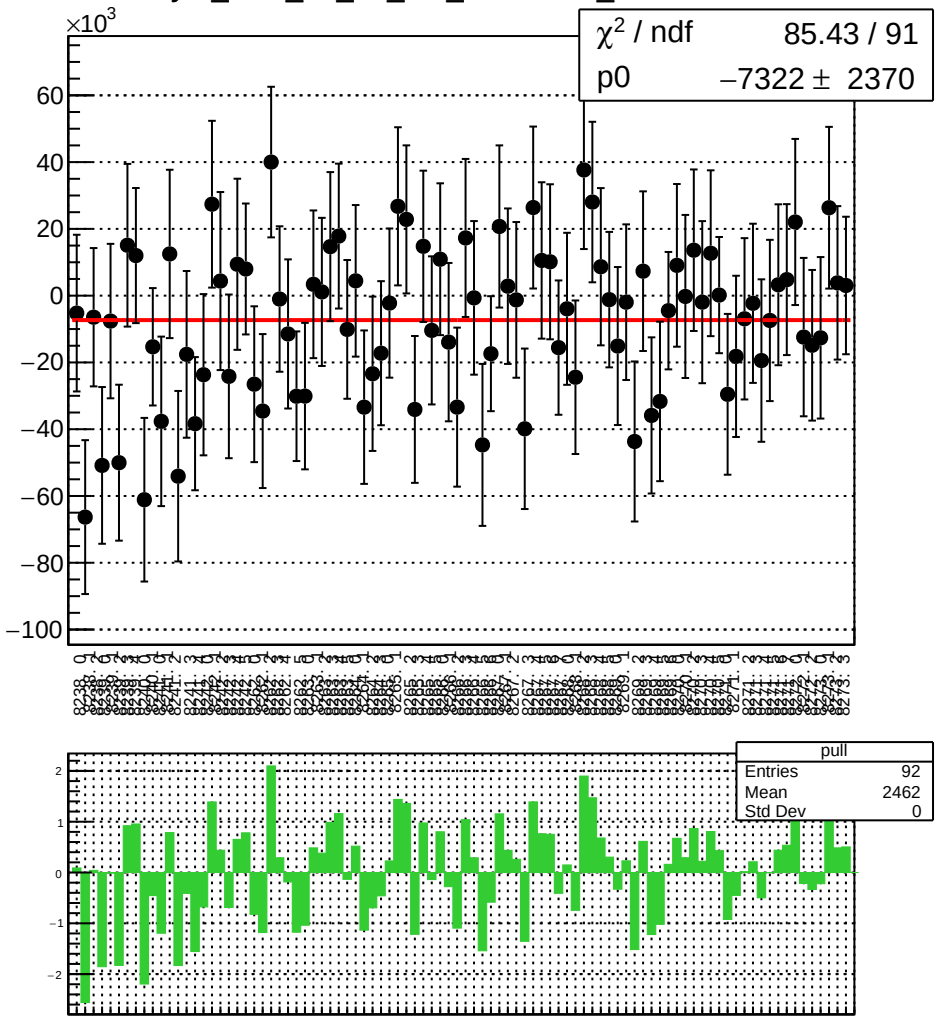

pull1D
Entries 92
Mean 0.002574
Std Dev 0.9636

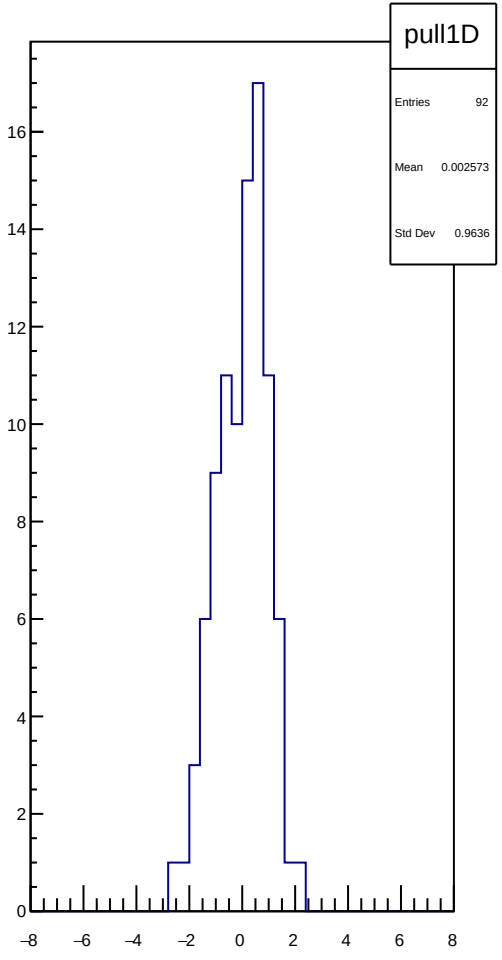

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 2663 / 91
p0 2236 ± 1.676
2500
2400
2300
2200
2100
2000

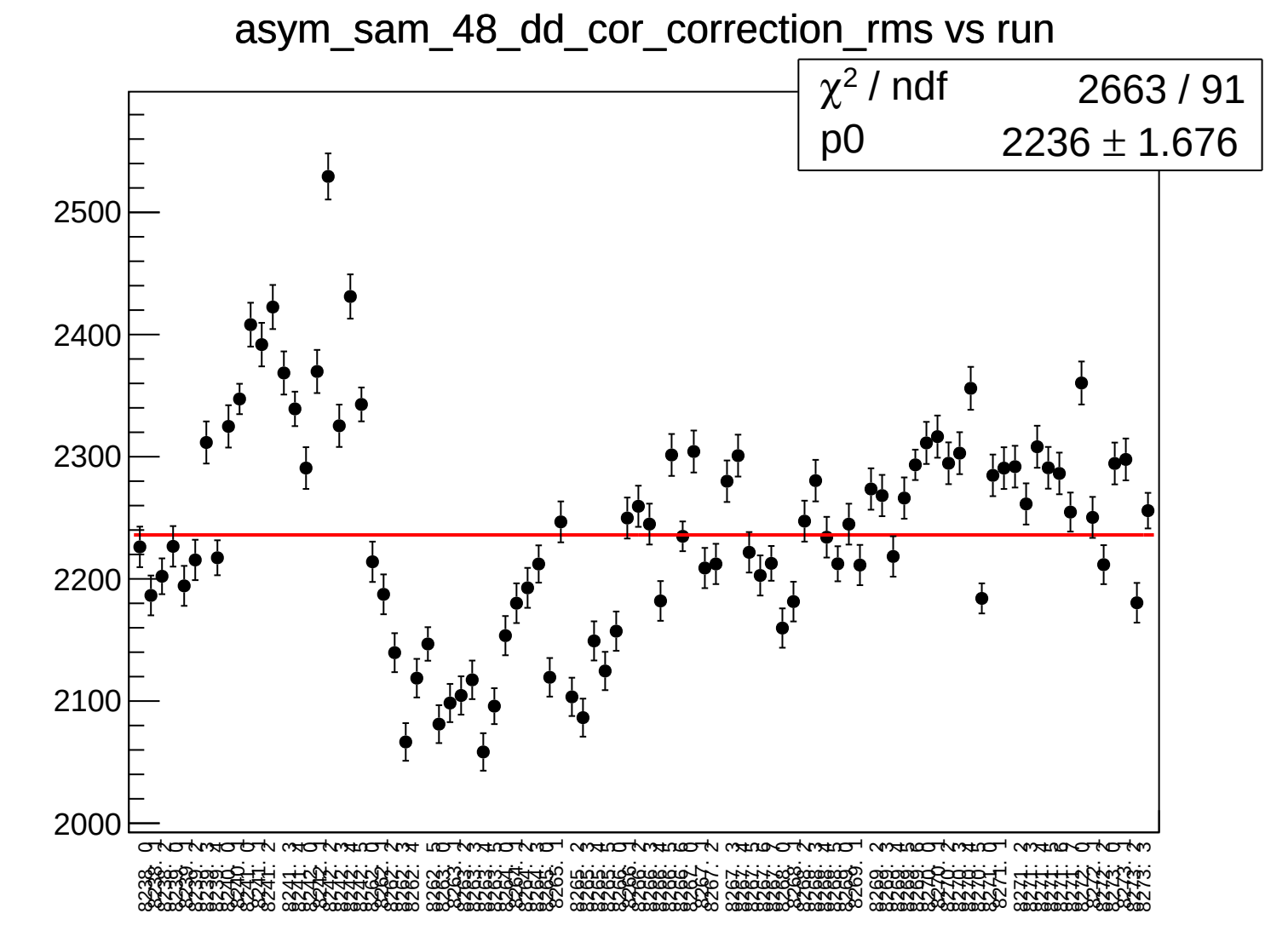

cor_asym_sam_48_dd_mean vs run
χ² / ndf 81.33 / 91
p0 118 ± 161.7
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −822.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

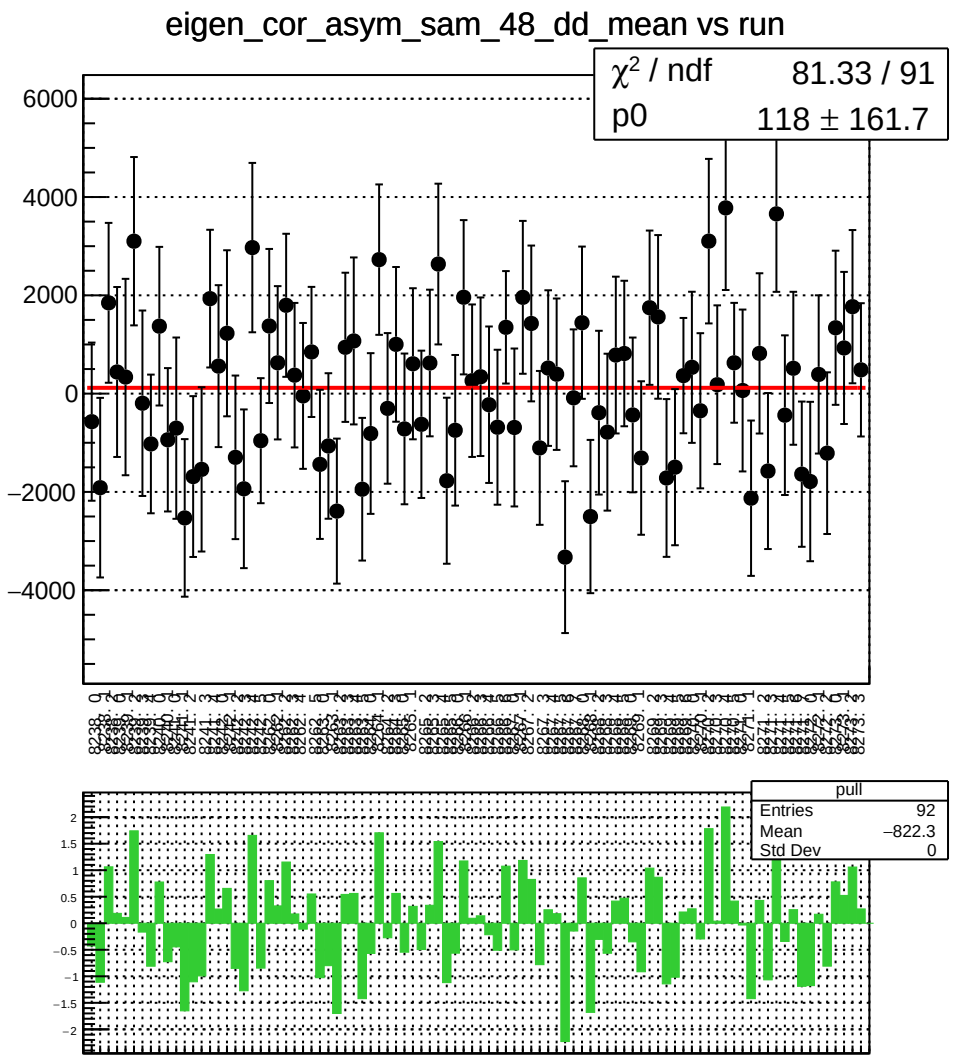

pull1D
Entries 92
Mean −0.001805
Std Dev 0.9402
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

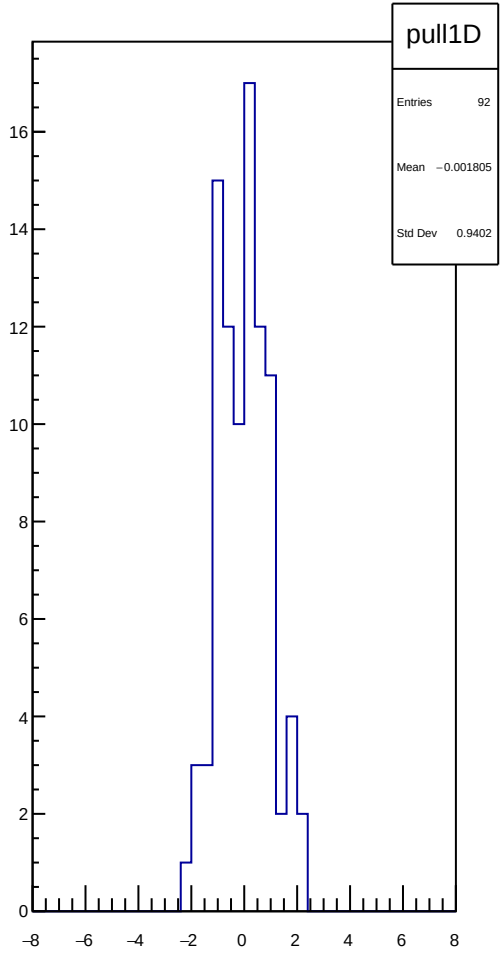

cor_asym_sam_48_dd_rms vs run
$\chi^2$ / ndf 6386 / 91
p0 152.4 ± 0.1144
200
190
180
170
160
150
140

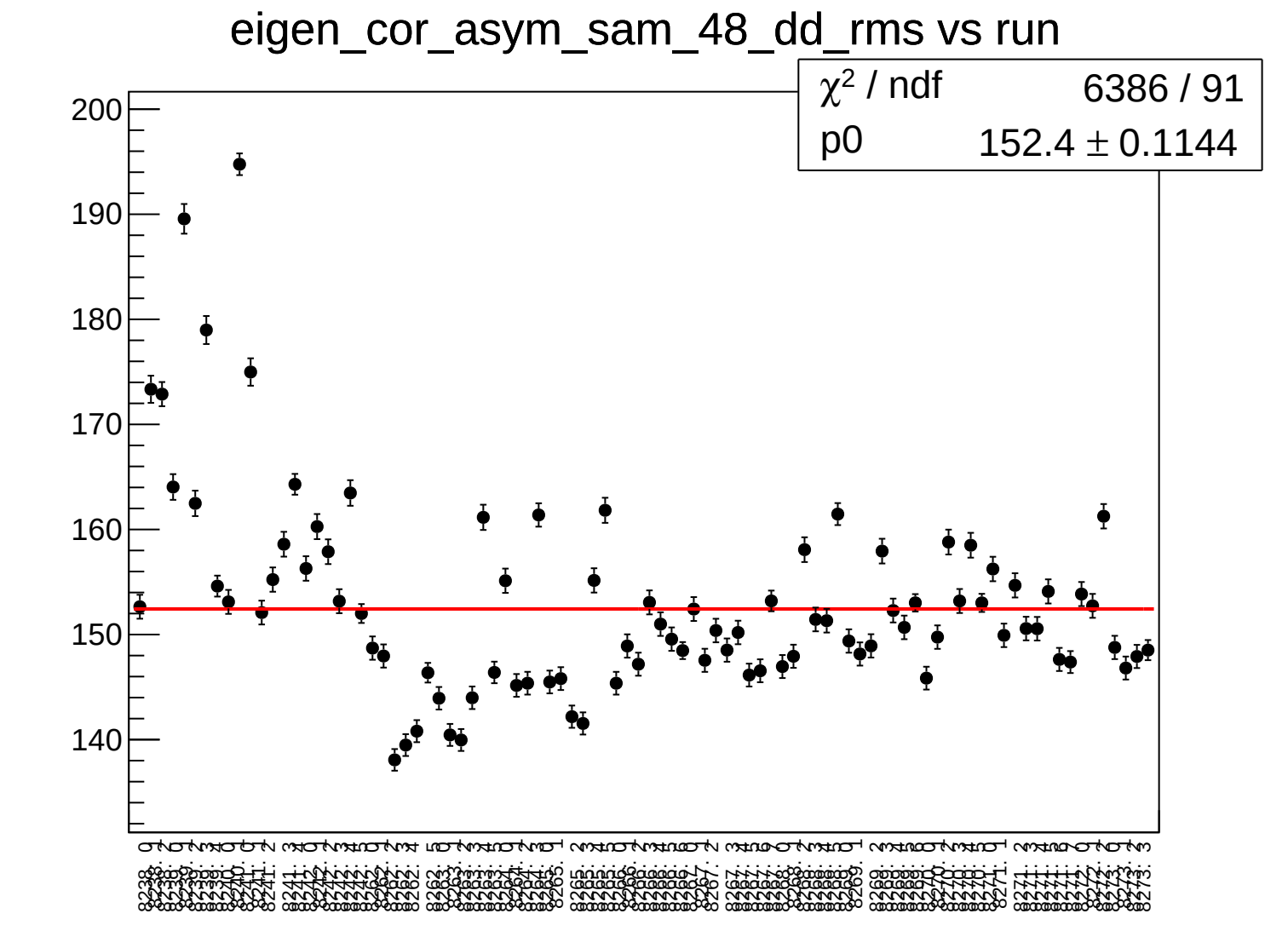

asym_sam_48_dd_cor_correction_mean vs run
×10^3
χ² / ndf 85.43 / 91
p0 −7322 ± 2370
pull
Entries 92
Mean 2462
Std Dev 0

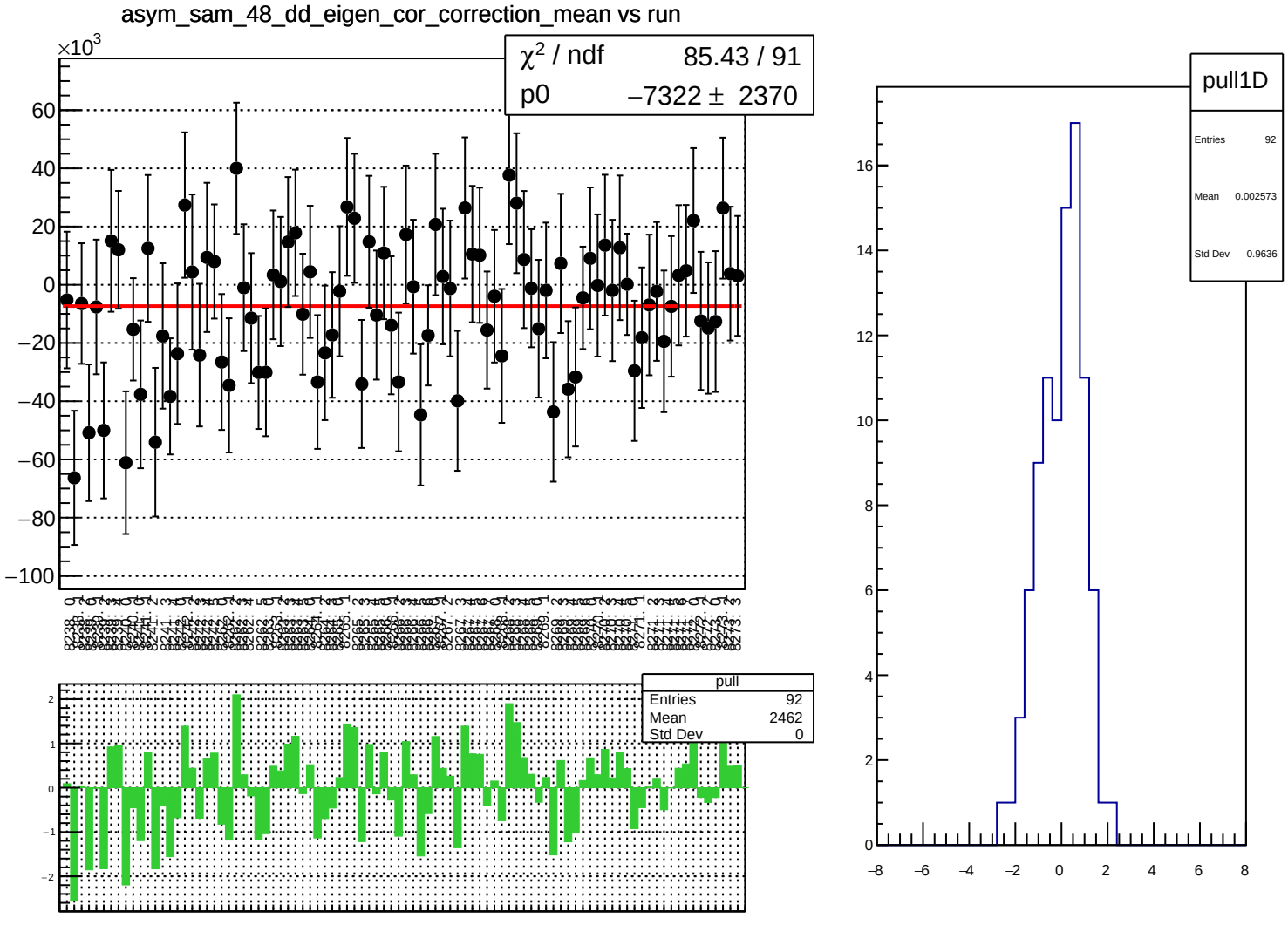

pull1D
Entries 92
Mean 0.002573
Std Dev 0.9636

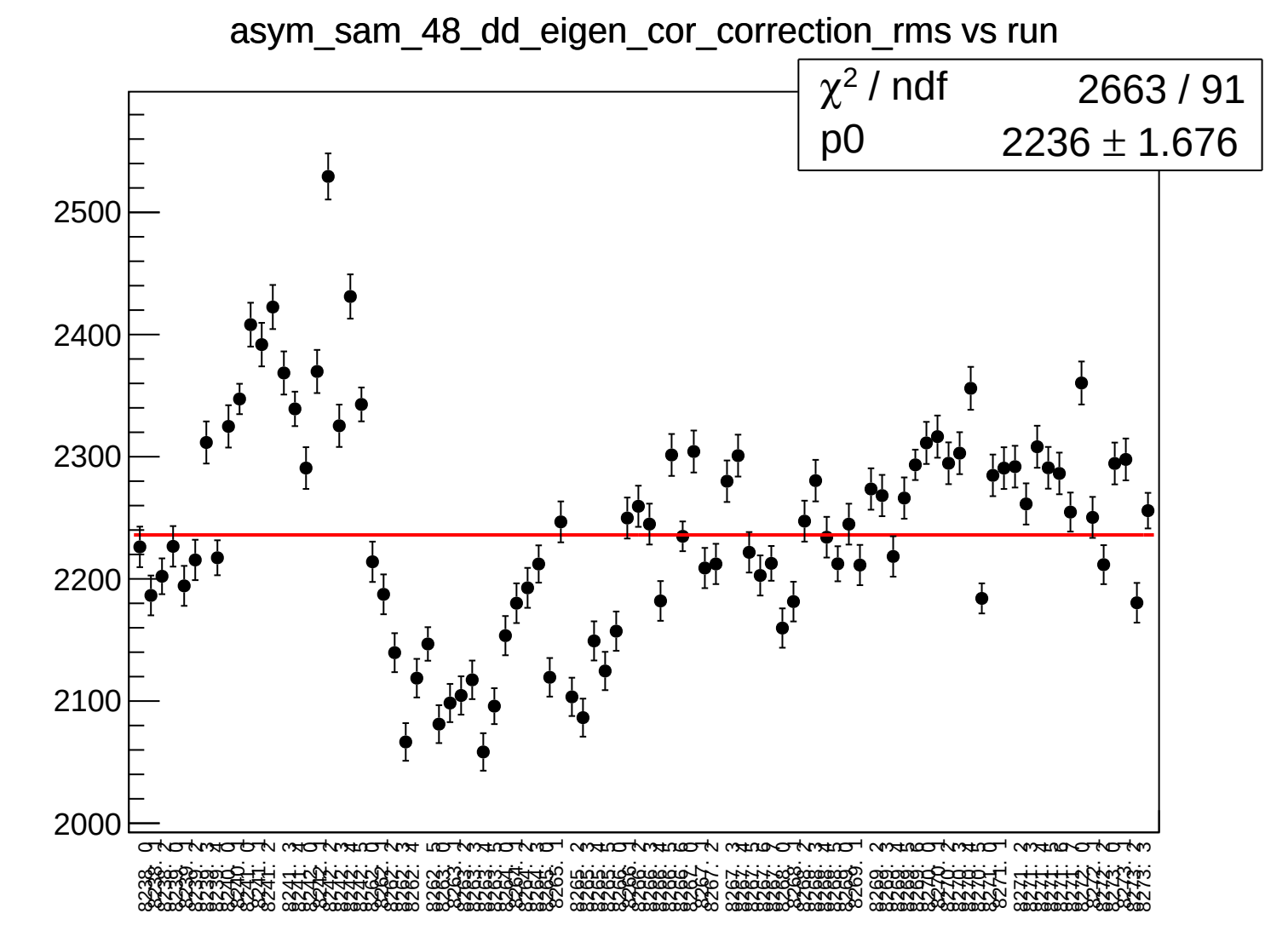

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 2663 / 91
p0 2236 ± 1.676
2500
2400
2300
2200
2100
2000

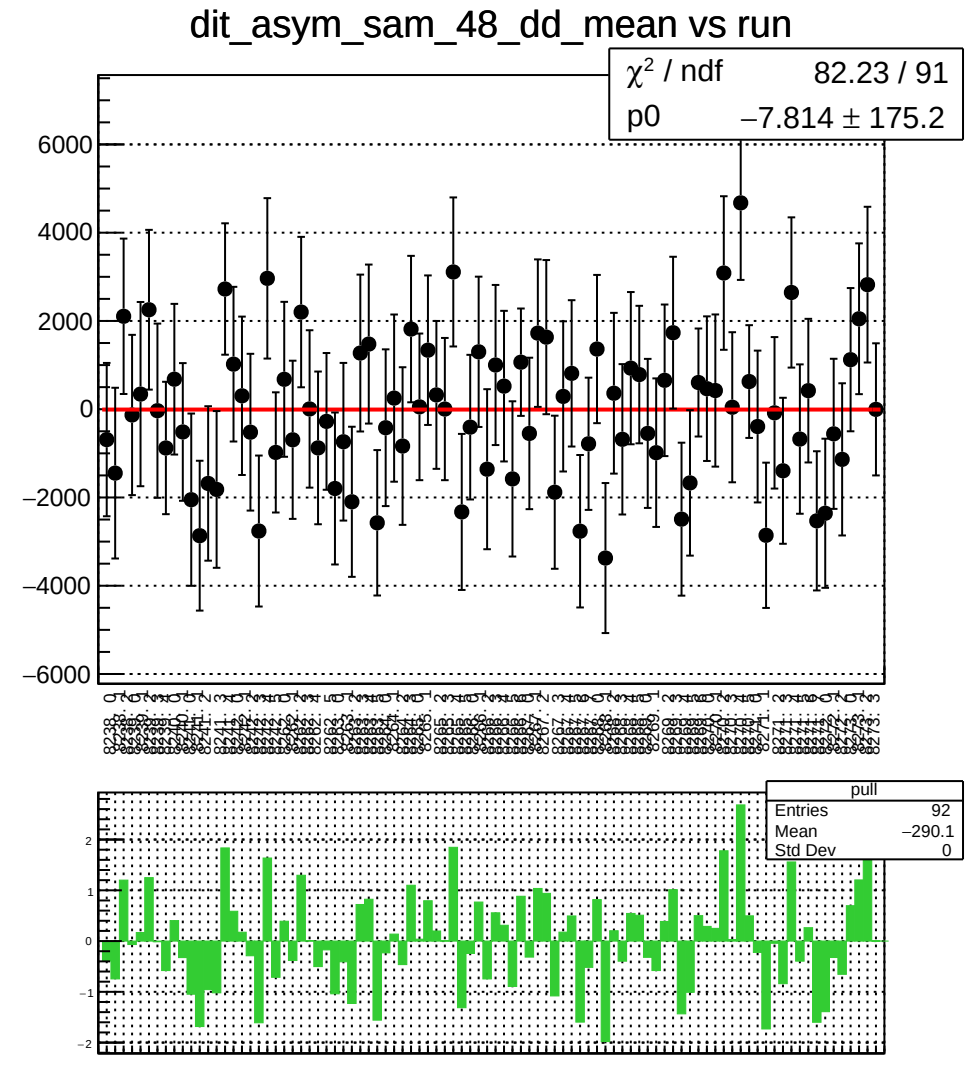

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 81.33 / 91
p0 118 ± 161.7
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −822.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

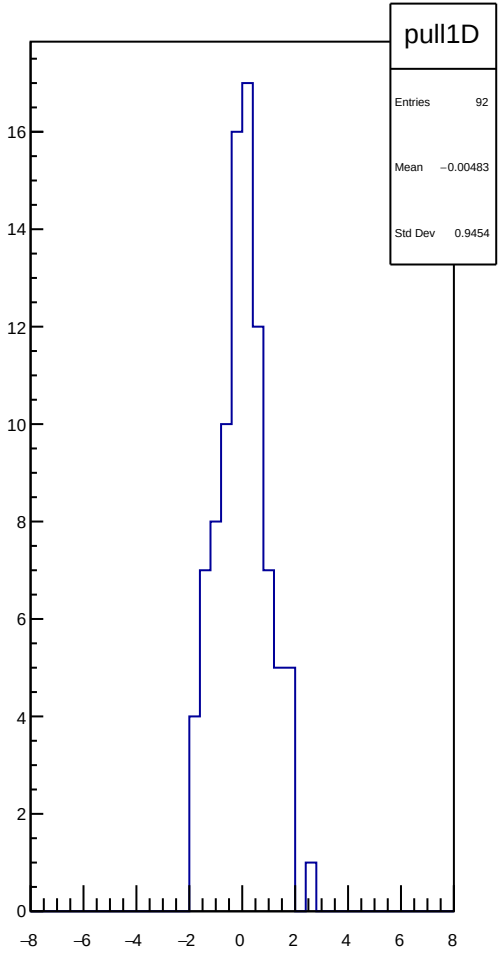

pull1D
Entries 92
Mean −0.001805
Std Dev 0.9402
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

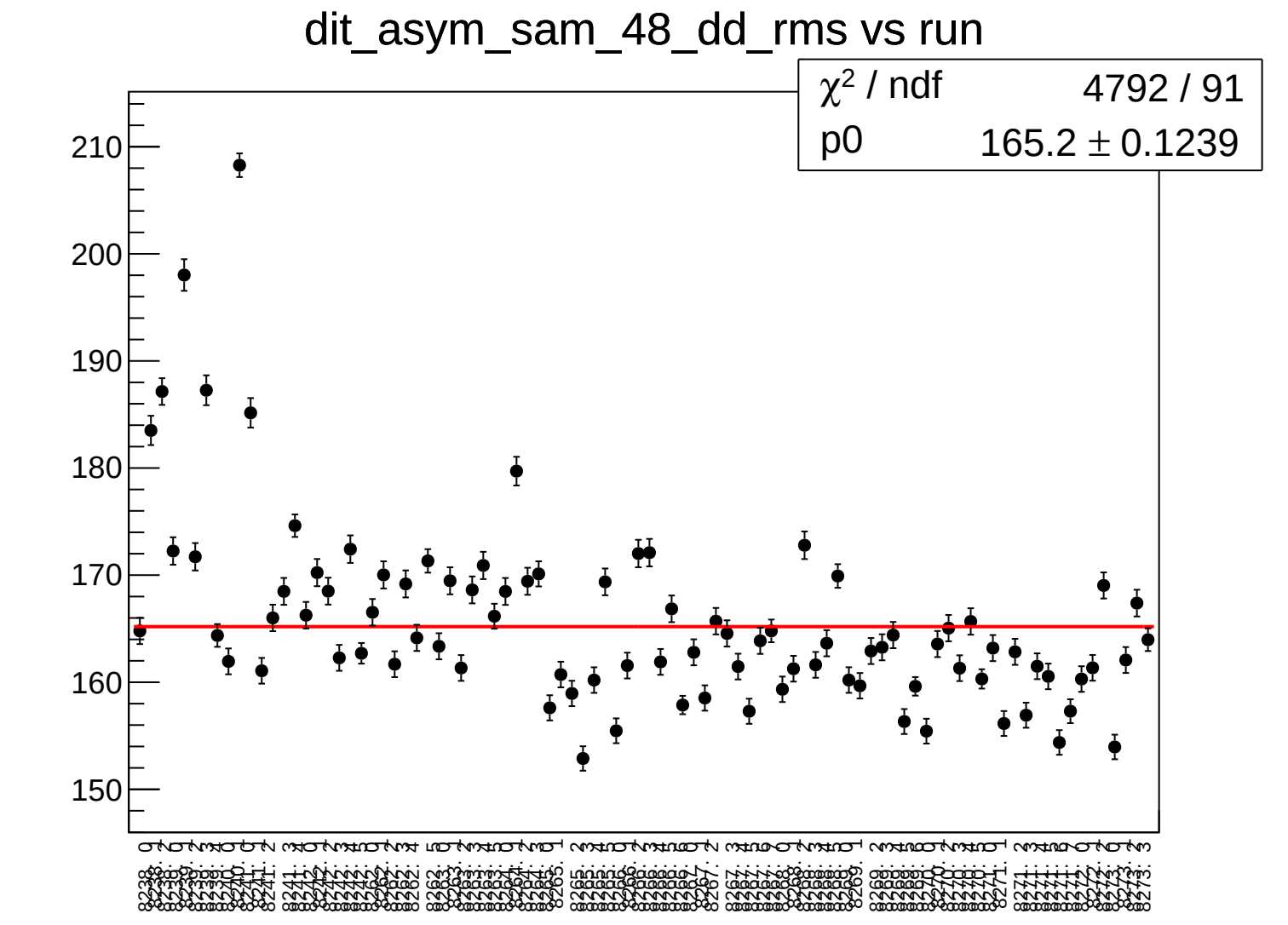

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 6386 / 91
p0 152.4 ± 0.1144
200
190
180
170
160
150
140

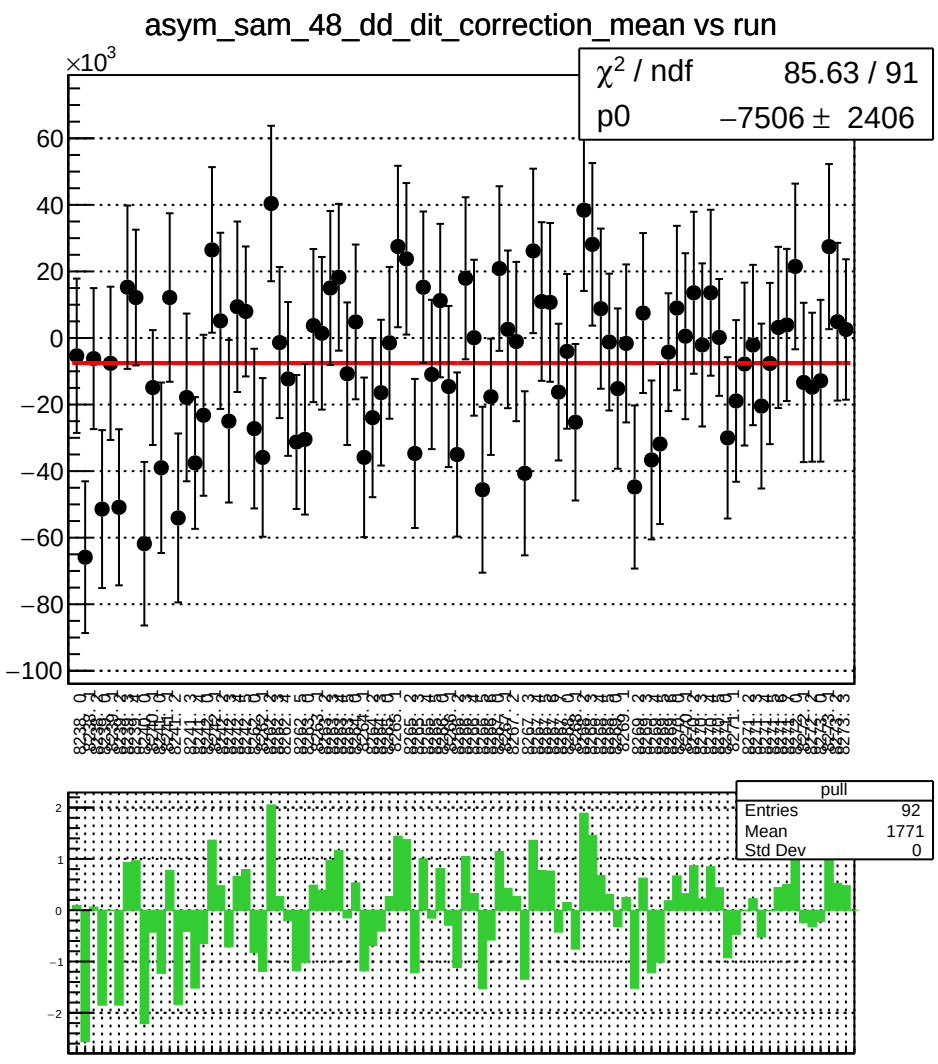

asym_sam_48_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.43 / 91
p0 −7322 ± 2370
pull
Entries 92
Mean 2462
Std Dev 0
pull1D
Entries 92
Mean 0.002573
Std Dev 0.9636

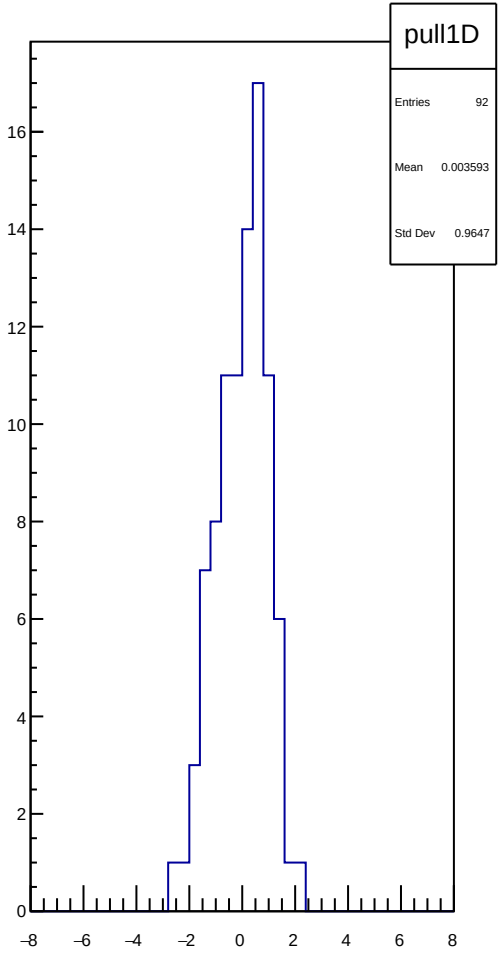

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2663 / 91
p0 2236 ± 1.676
2500
2400
2300
2200
2100
2000

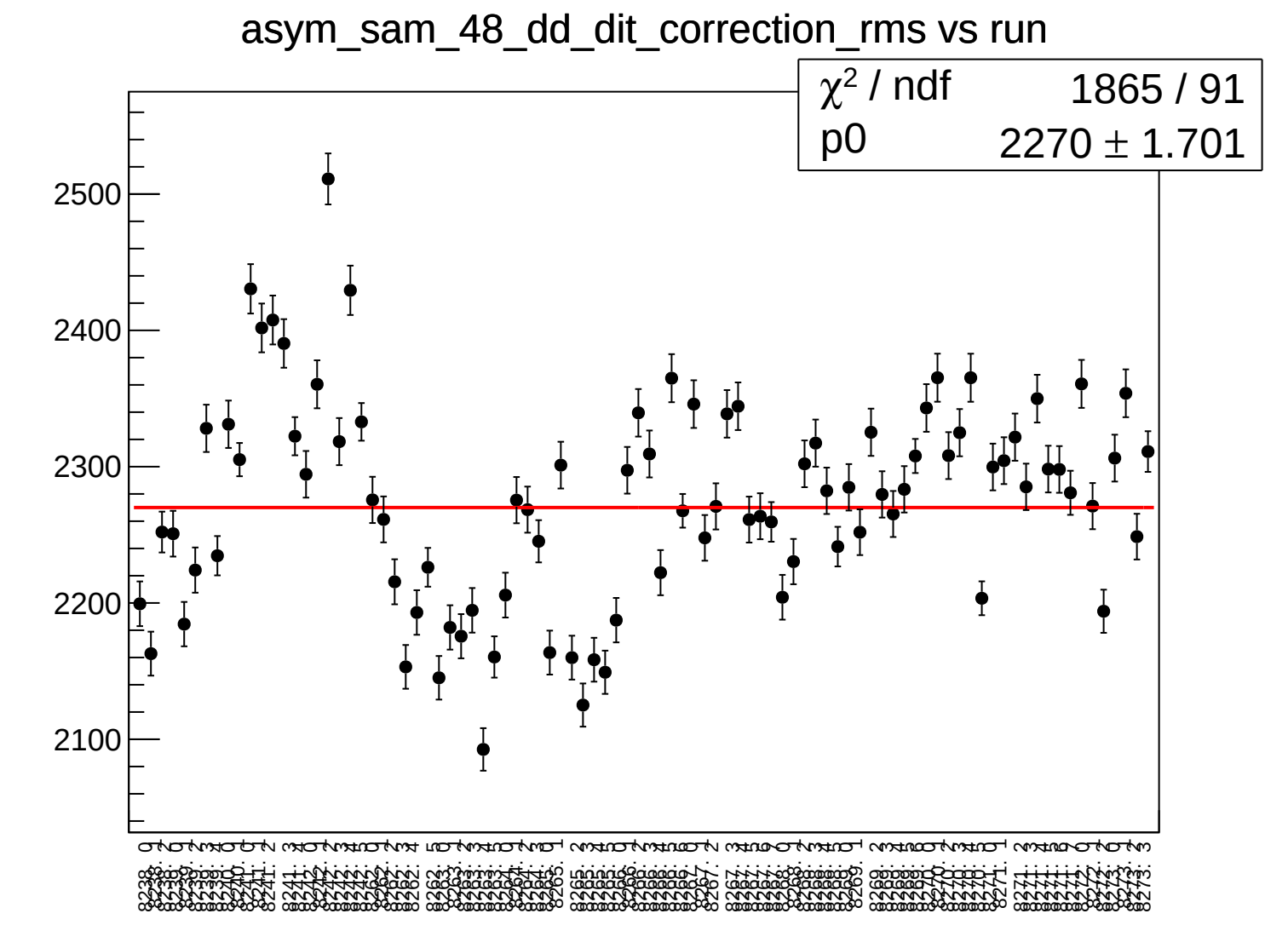

dit_asym_sam_48_dd_mean vs run
χ² / ndf 82.23 / 91
p0 −7.814 ± 175.2
pull
Entries 92
Mean −290.1
Std Dev 0

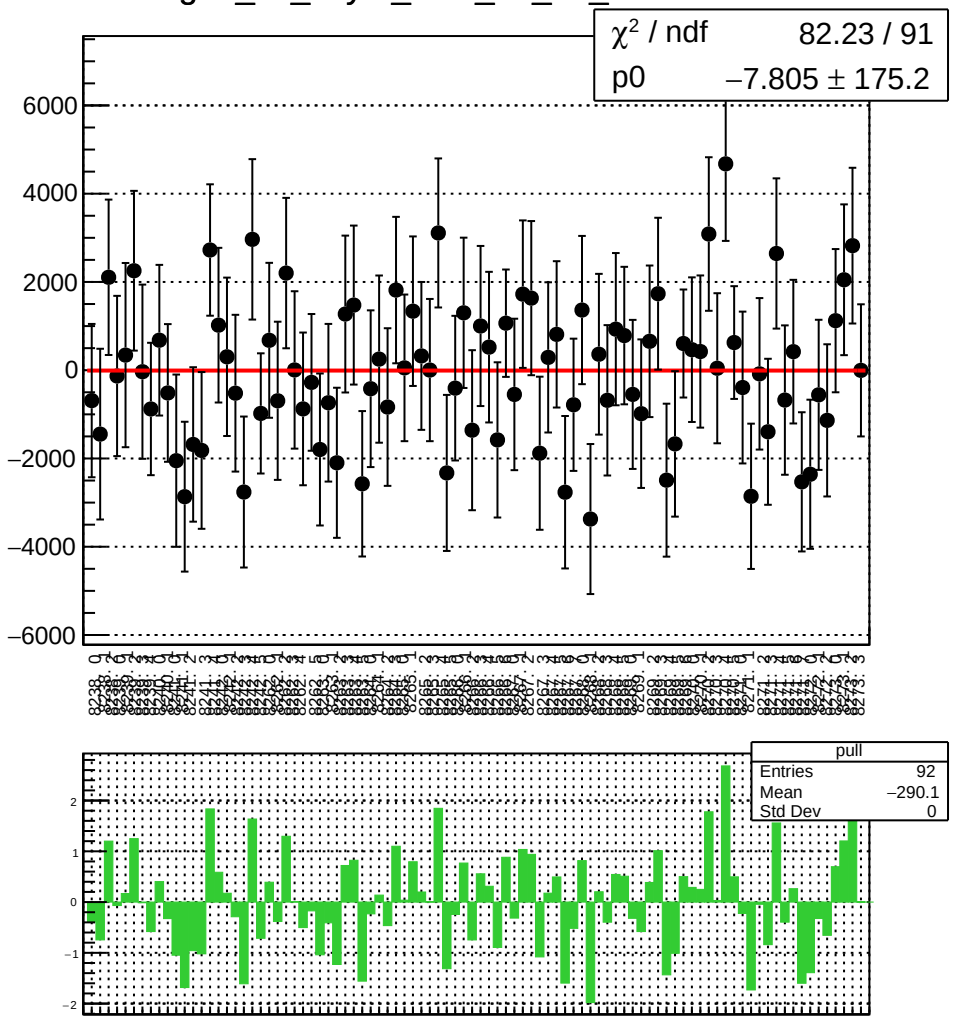

pull1D
Entries 92
Mean −0.00483
Std Dev 0.9454

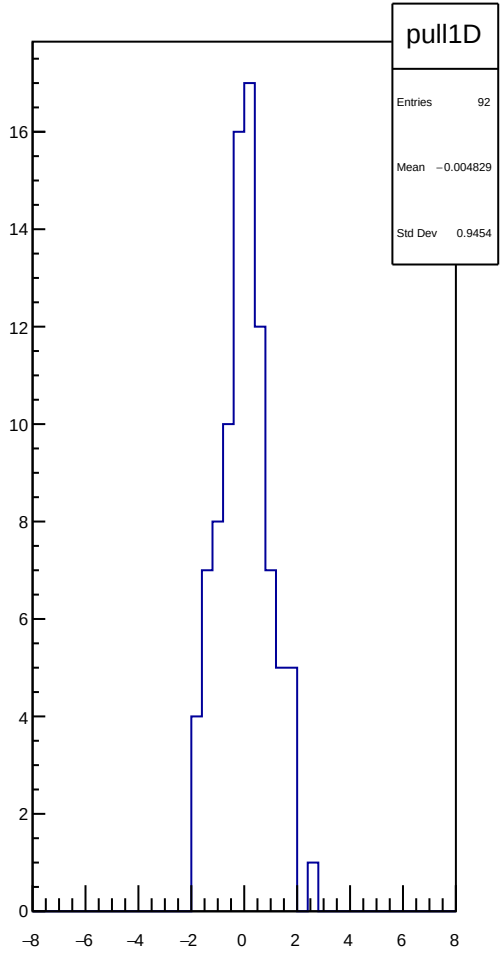

dit_asym_sam_48_dd_rms vs run
χ² / ndf 4792 / 91
p0 165.2 ± 0.1239
210
200
190
180
170
160
150

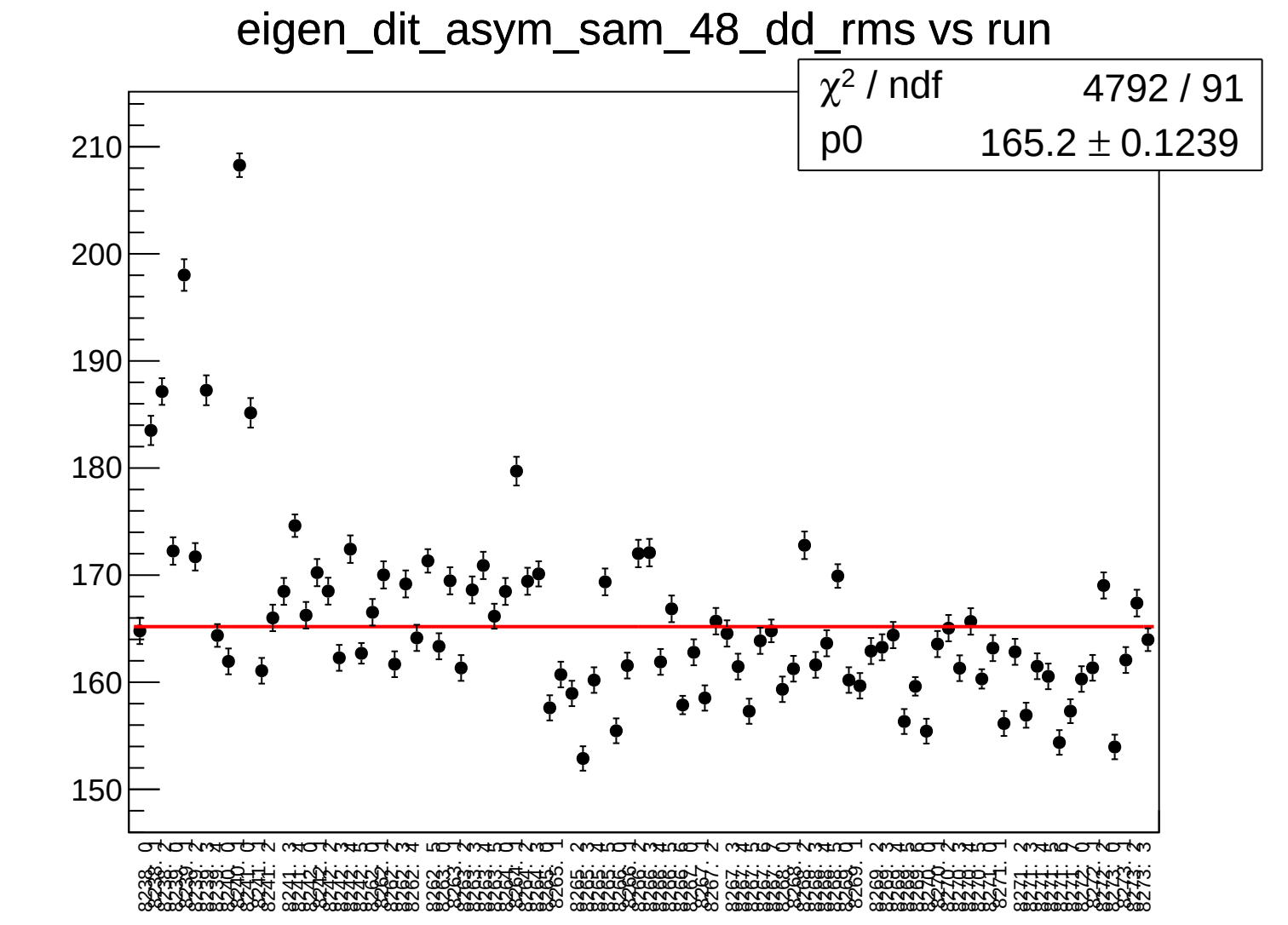

asym_sam_48_dd_dit_correction_mean vs run
×10^3
χ² / ndf 85.63 / 91
p0 −7506 ± 2406
pull
Entries 92
Mean 1771
Std Dev 0

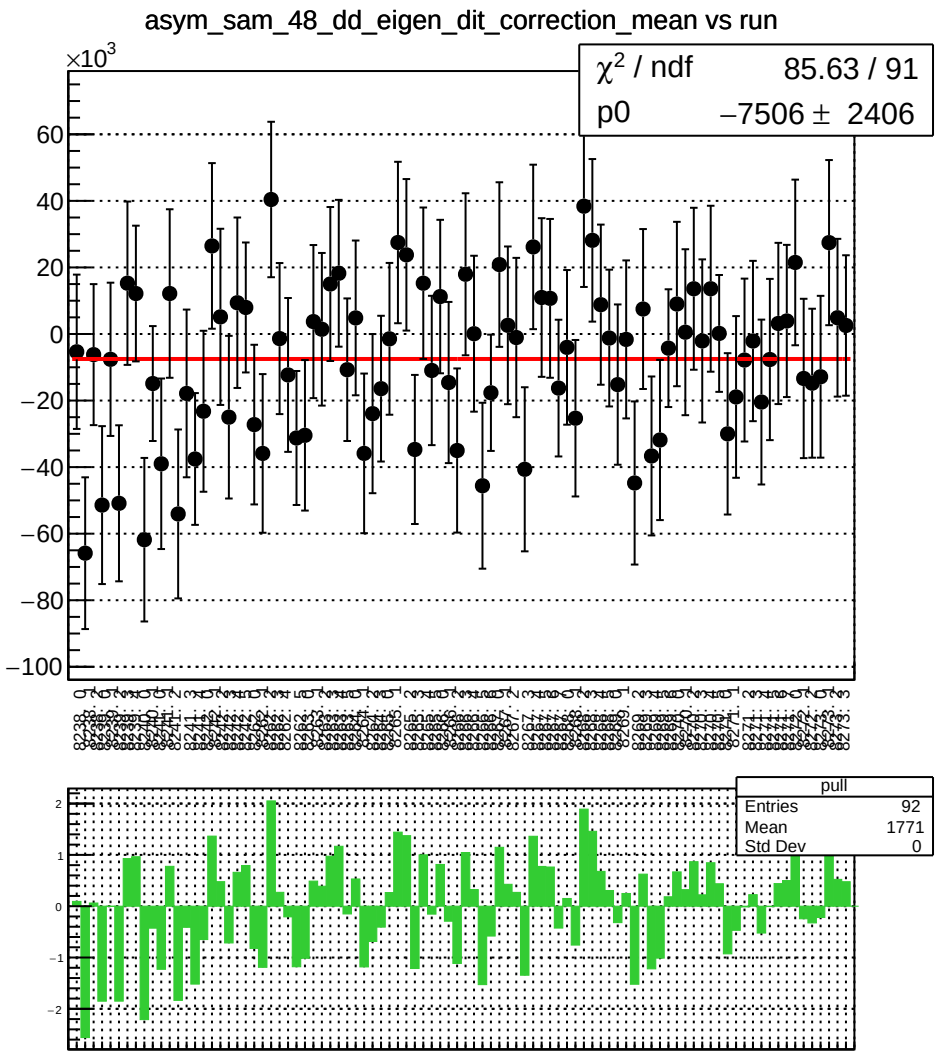

pull1D
Entries 92
Mean 0.003593
Std Dev 0.9647

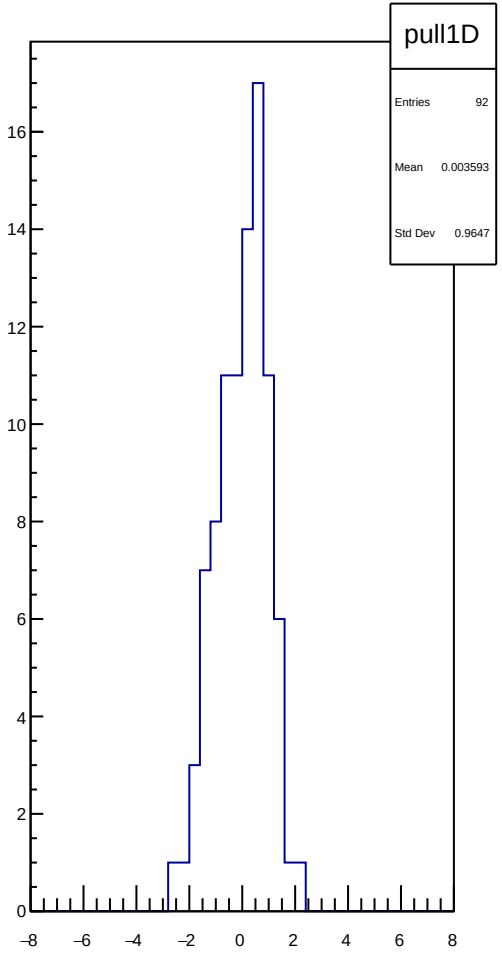

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 1865 / 91
p0 2270 ± 1.701
2500
2400
2300
2200
2100

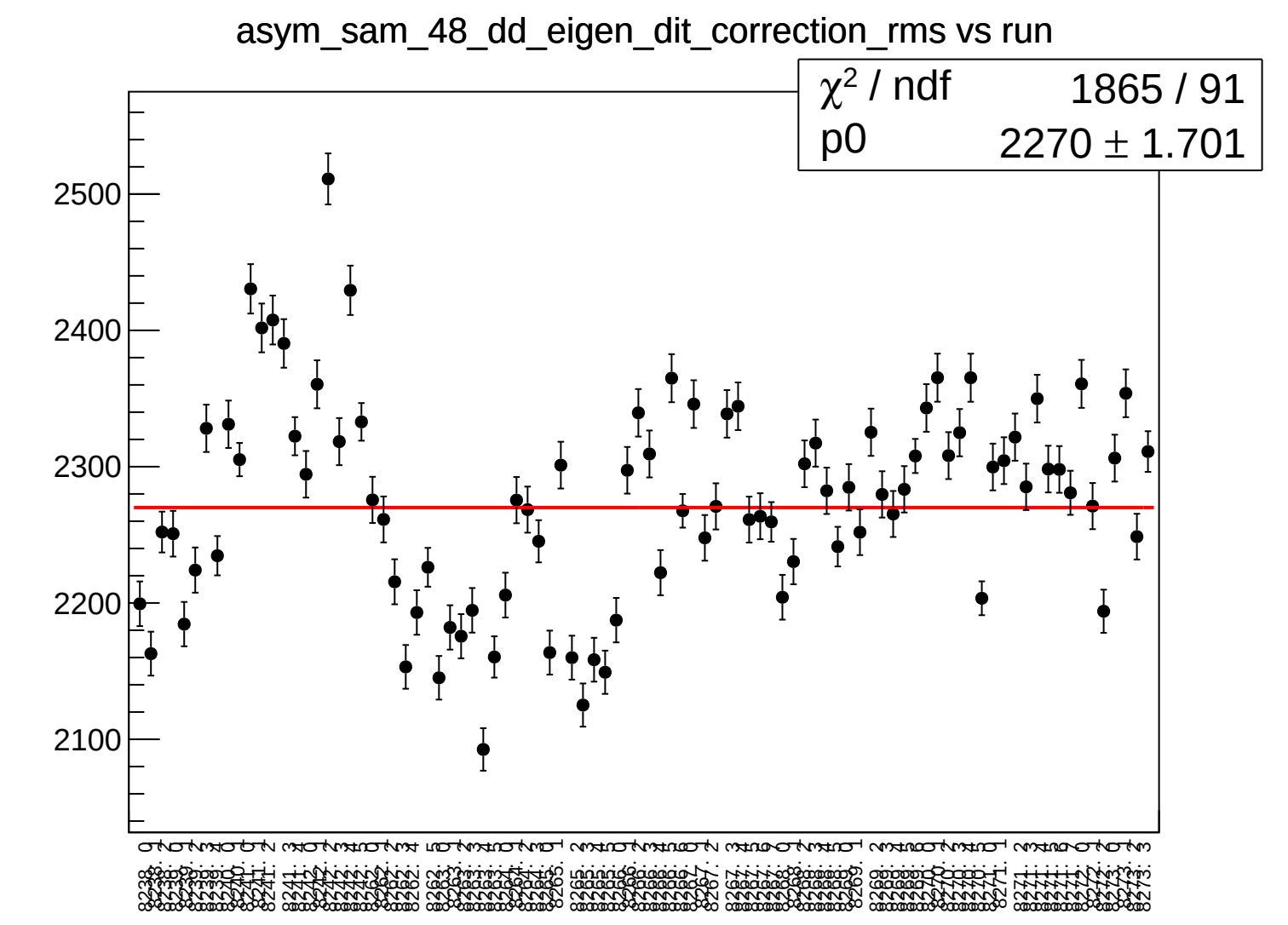

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 82.23 / 91
p0 −7.805 ± 175.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −290.1
Std Dev 0
2
1
0
−1
−2

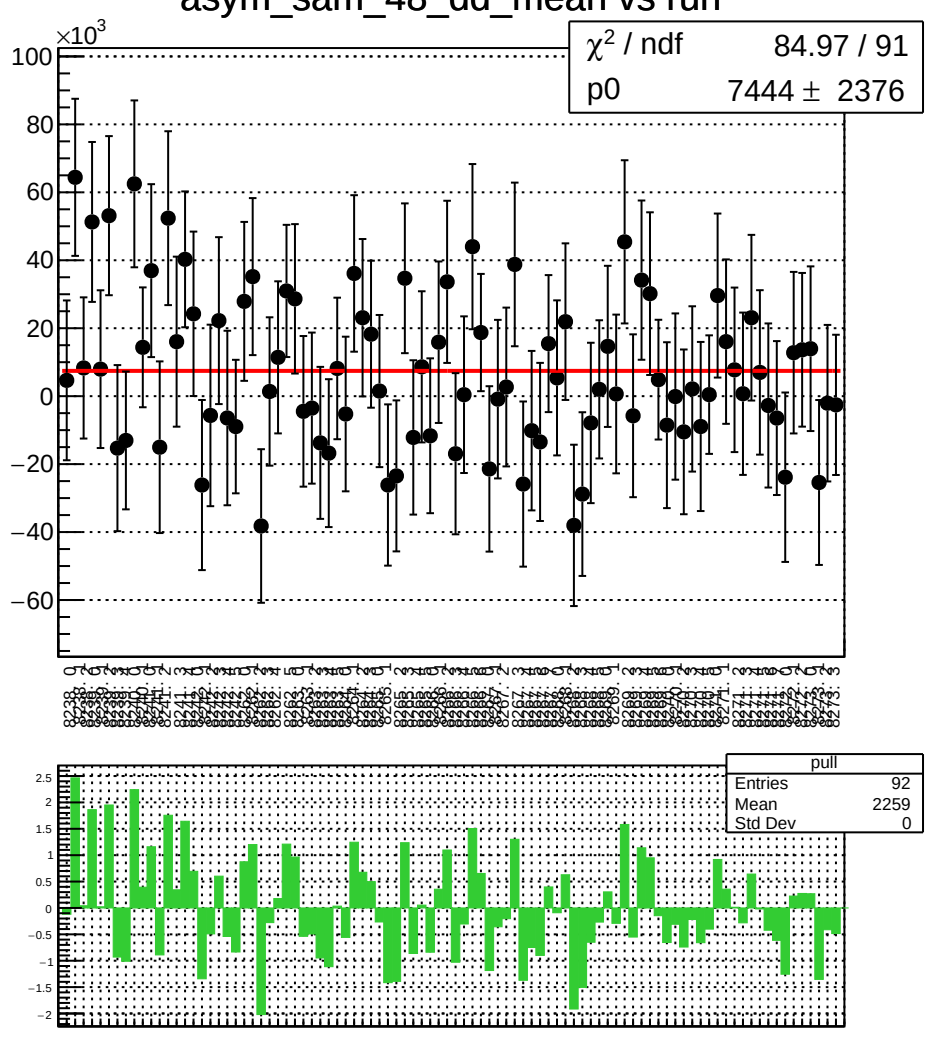

pull1D
Entries 92
Mean −0.004829
Std Dev 0.9454
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

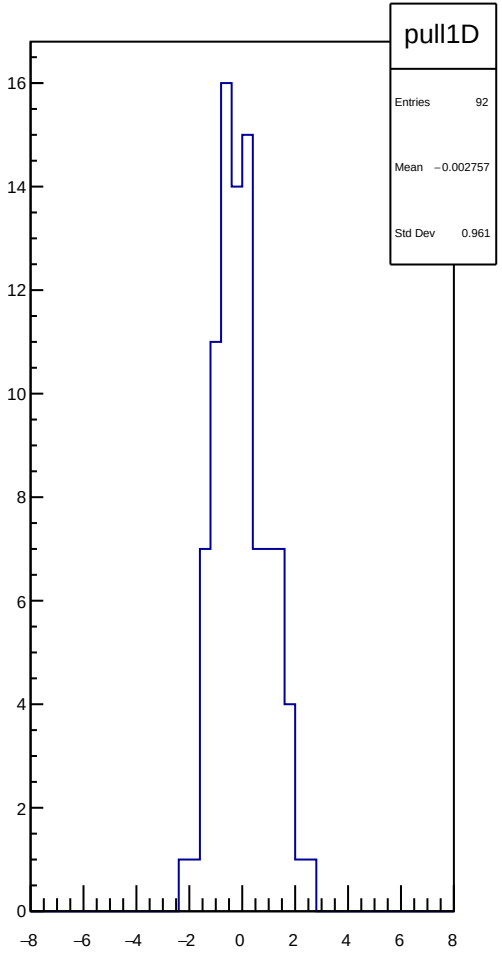

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 4792 / 91
p0 165.2 ± 0.1239
210
200
190
180
170
160
150

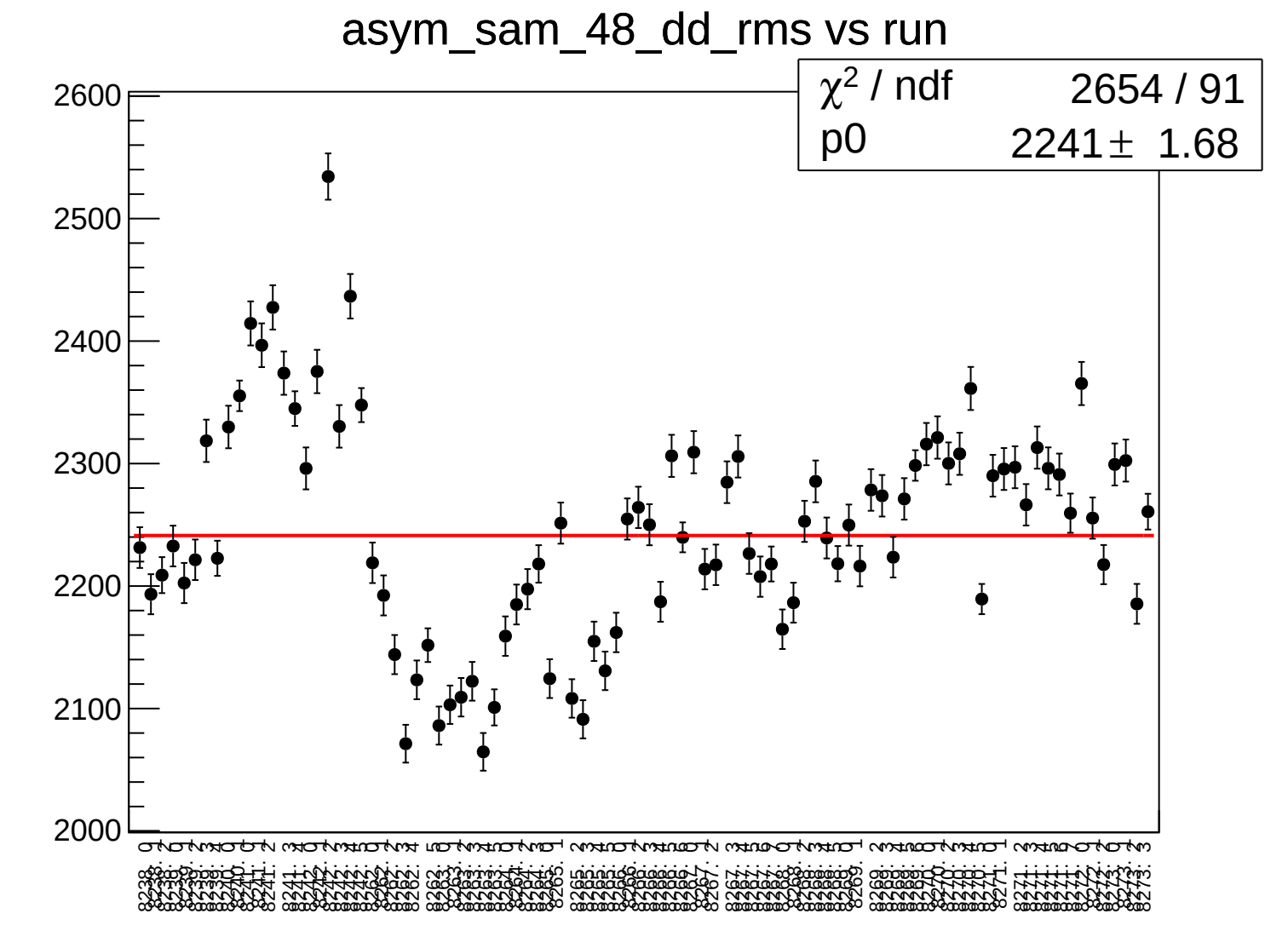

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.63 / 91
p0 −7506 ± 2406
×10³
pull
Entries 92
Mean 1771
Std Dev 0

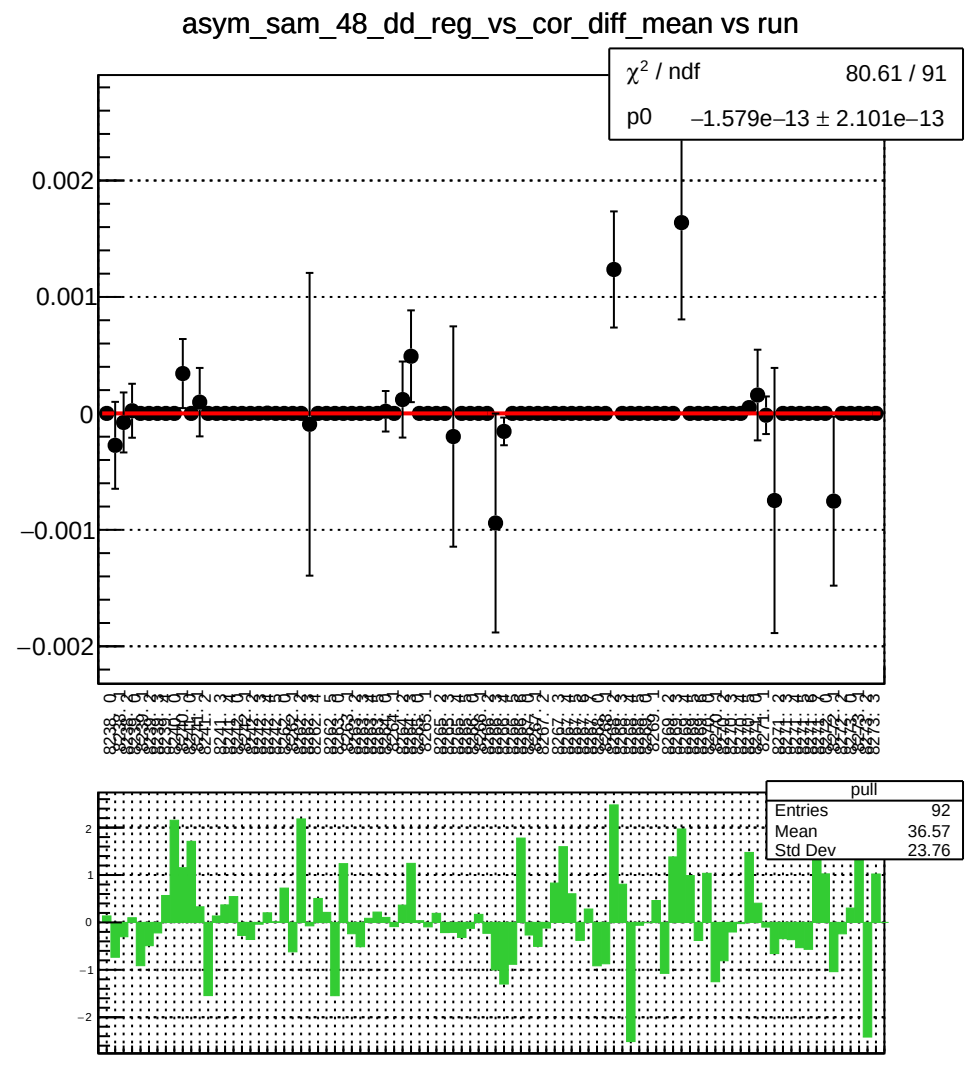

pull1D
Entries 92
Mean 0.003593
Std Dev 0.9647

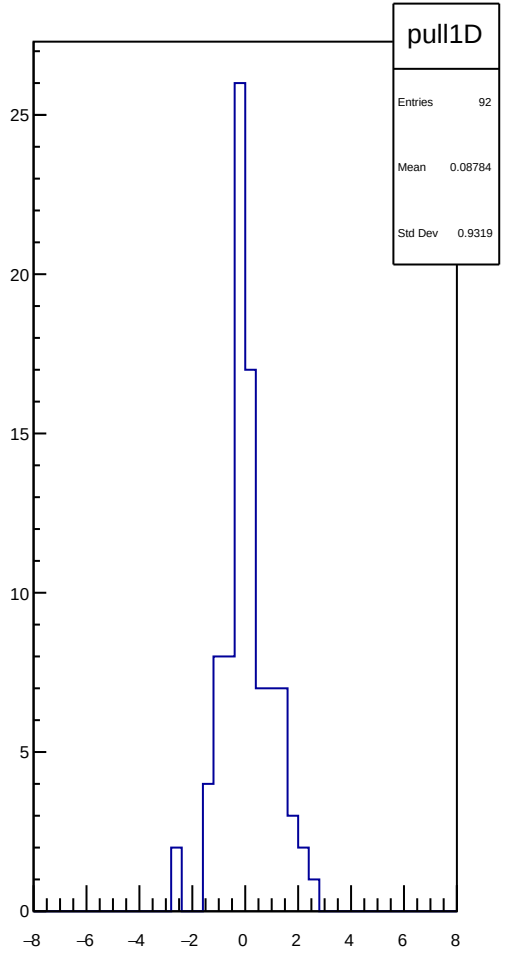

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1865 / 91
p0 2270 ± 1.701
2500
2400
2300
2200
2100

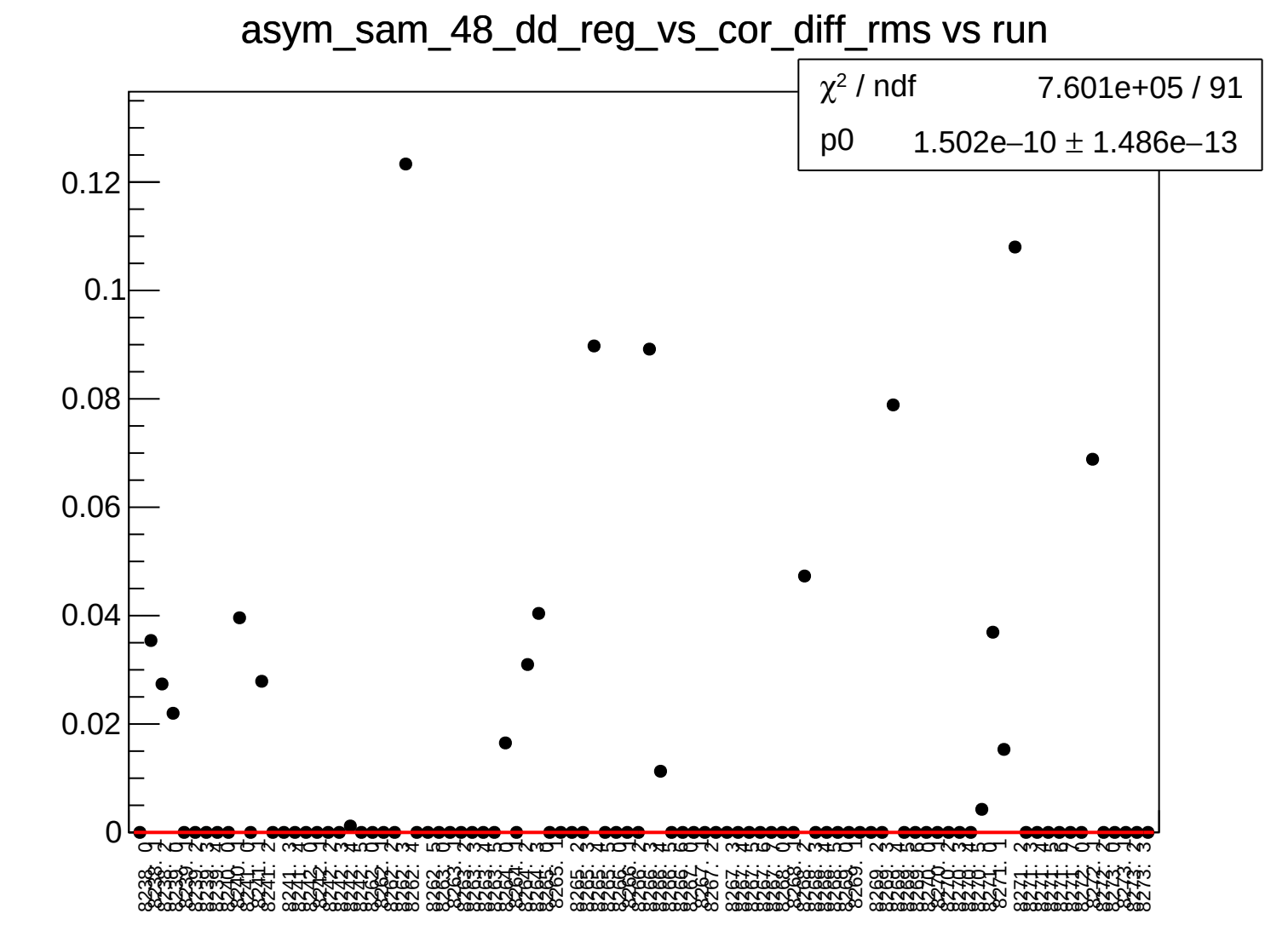

asym_sam_48_dd_mean vs run
×10^3
χ^2 / ndf 84.97 / 91
p0 7444 ± 2376
pull
Entries 92
Mean 2259
Std Dev 0

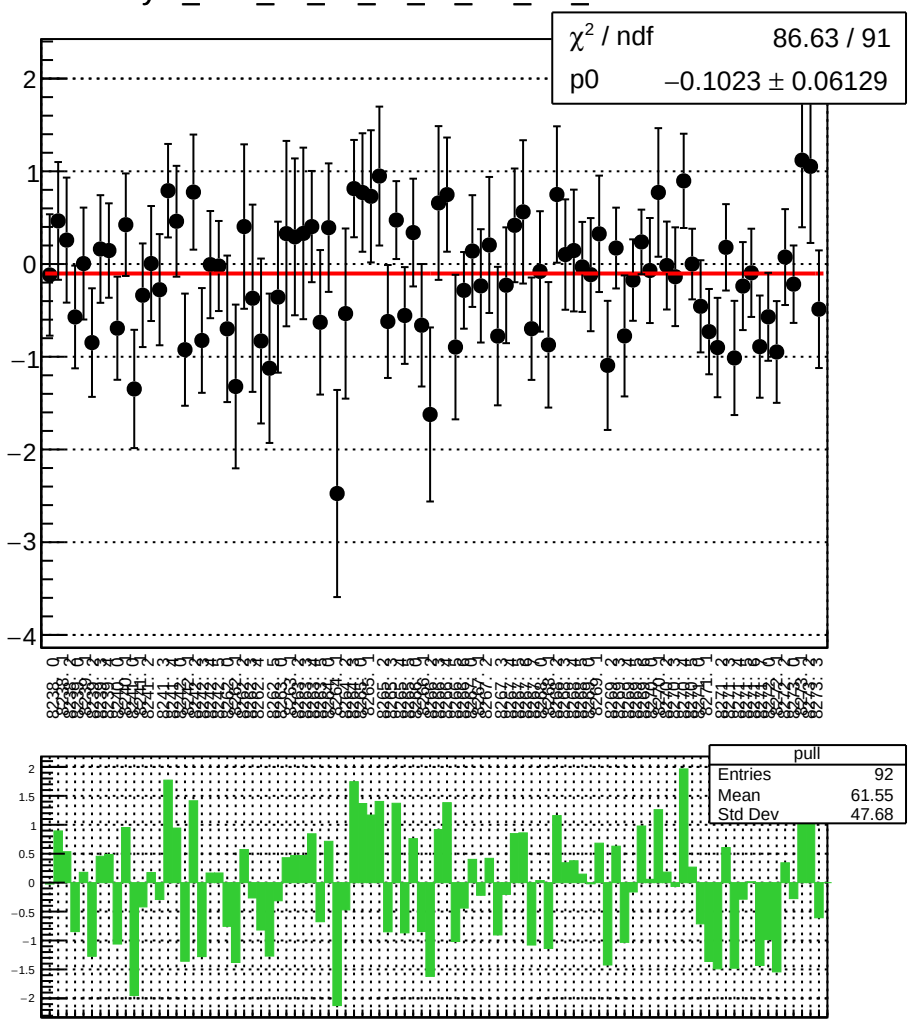

pull1D
Entries 92
Mean −0.002757
Std Dev 0.961

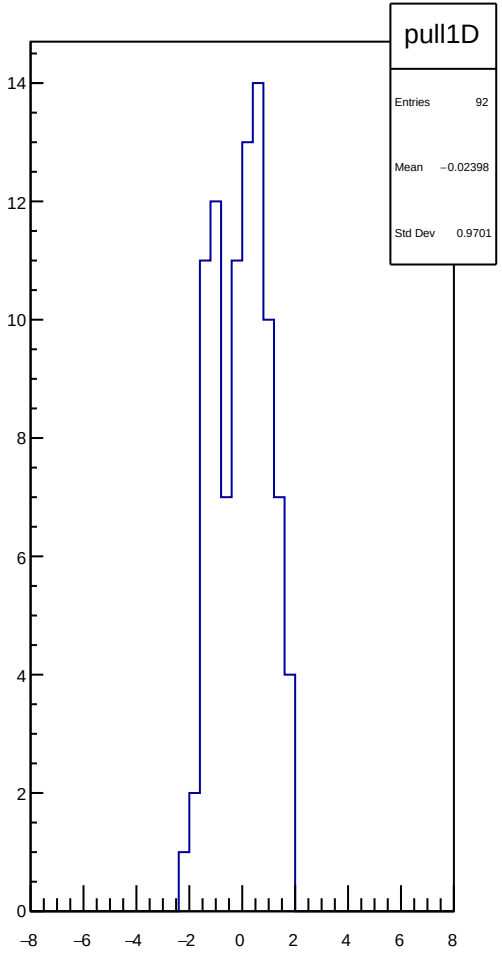

asym_sam_48_dd_rms vs run
χ² / ndf 2654 / 91
p0 2241 ± 1.68
2600
2500
2400
2300
2200
2100
2000

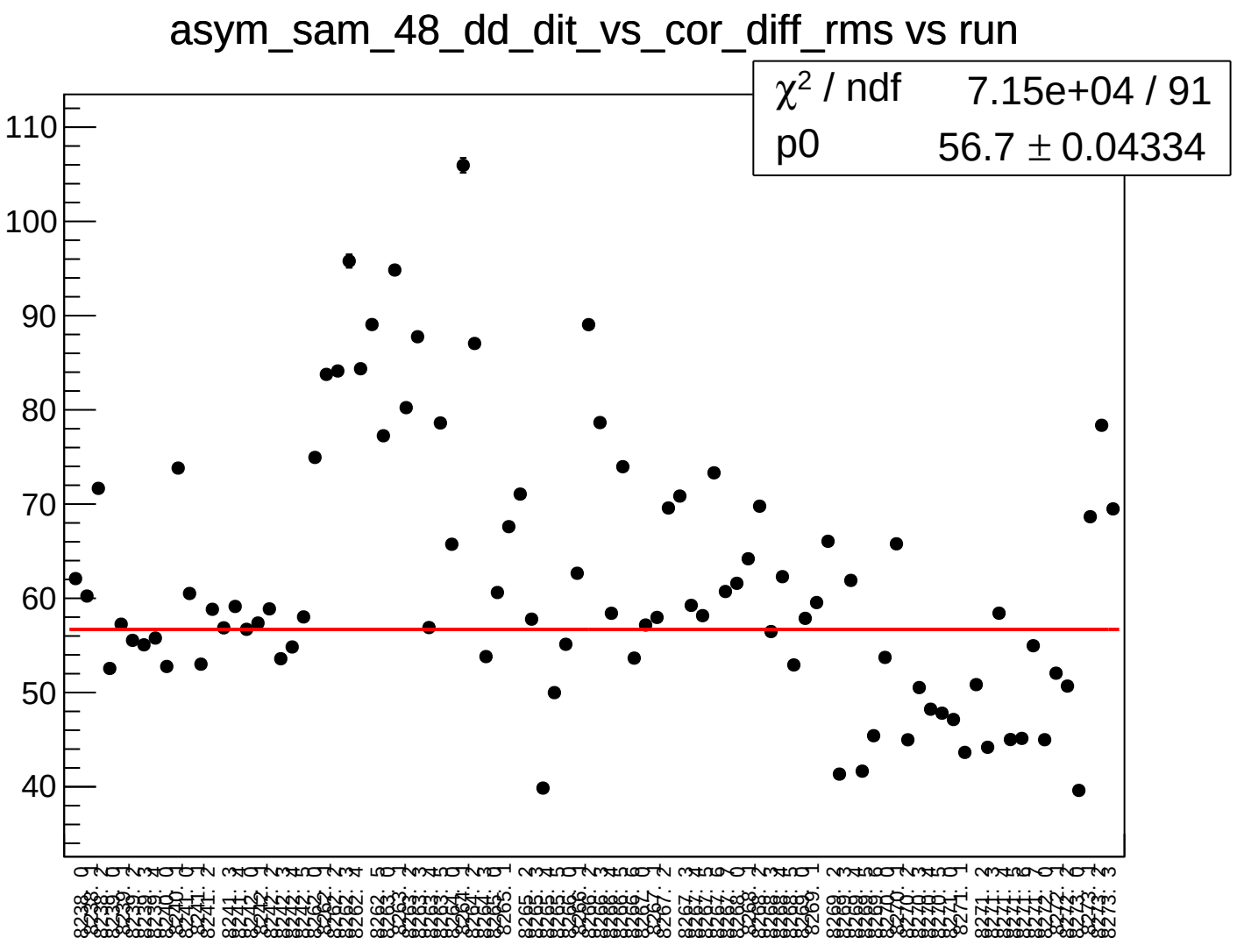

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.61 / 91
p0 −1.579e−13 ± 2.101e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 92
Mean 36.57
Std Dev 23.76
2
1
0
−1
−2

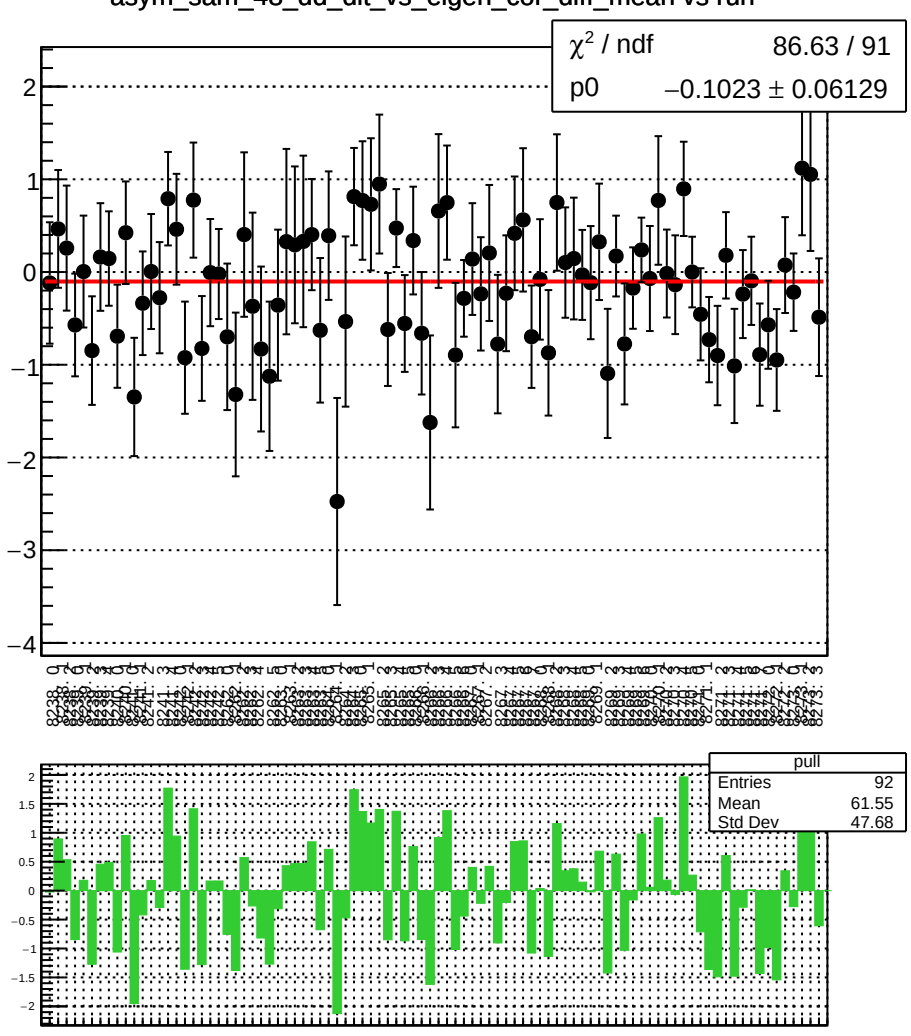

pull1D
Entries 92
Mean 0.08784
Std Dev 0.9319
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

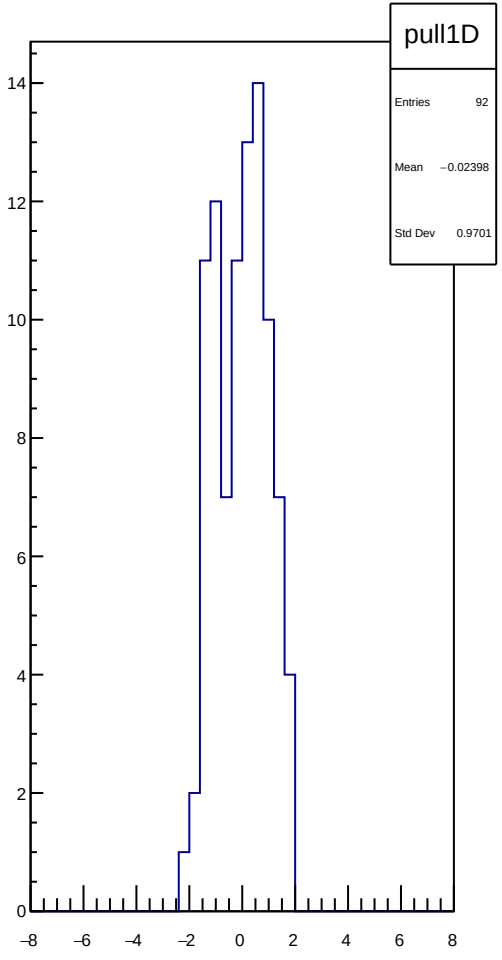

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.601e+05 / 91
p0 1.502e−10 ± 1.486e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

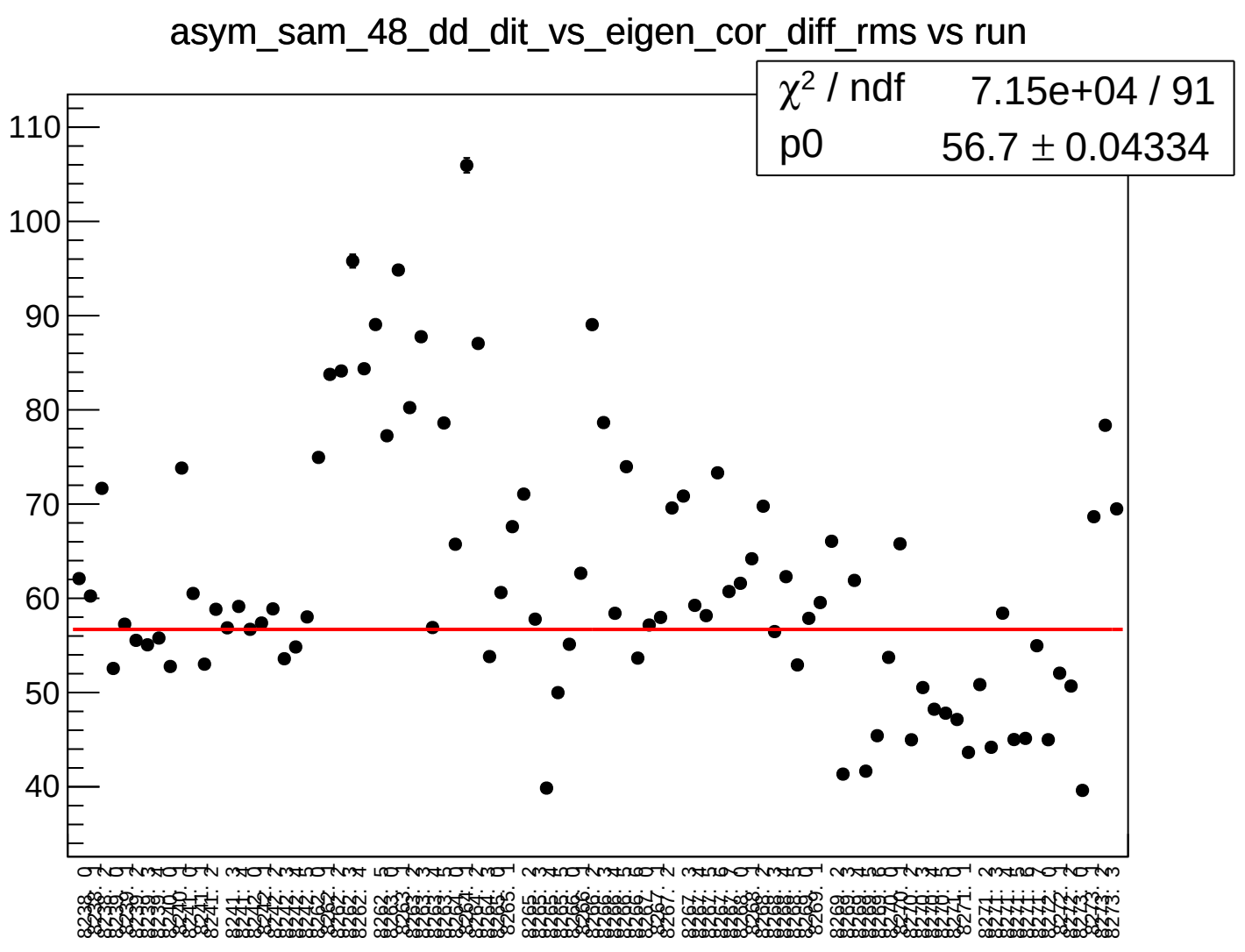

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.63 / 91
p0 −0.1023 ± 0.06129
pull
Entries 92
Mean 61.55
Std Dev 47.68

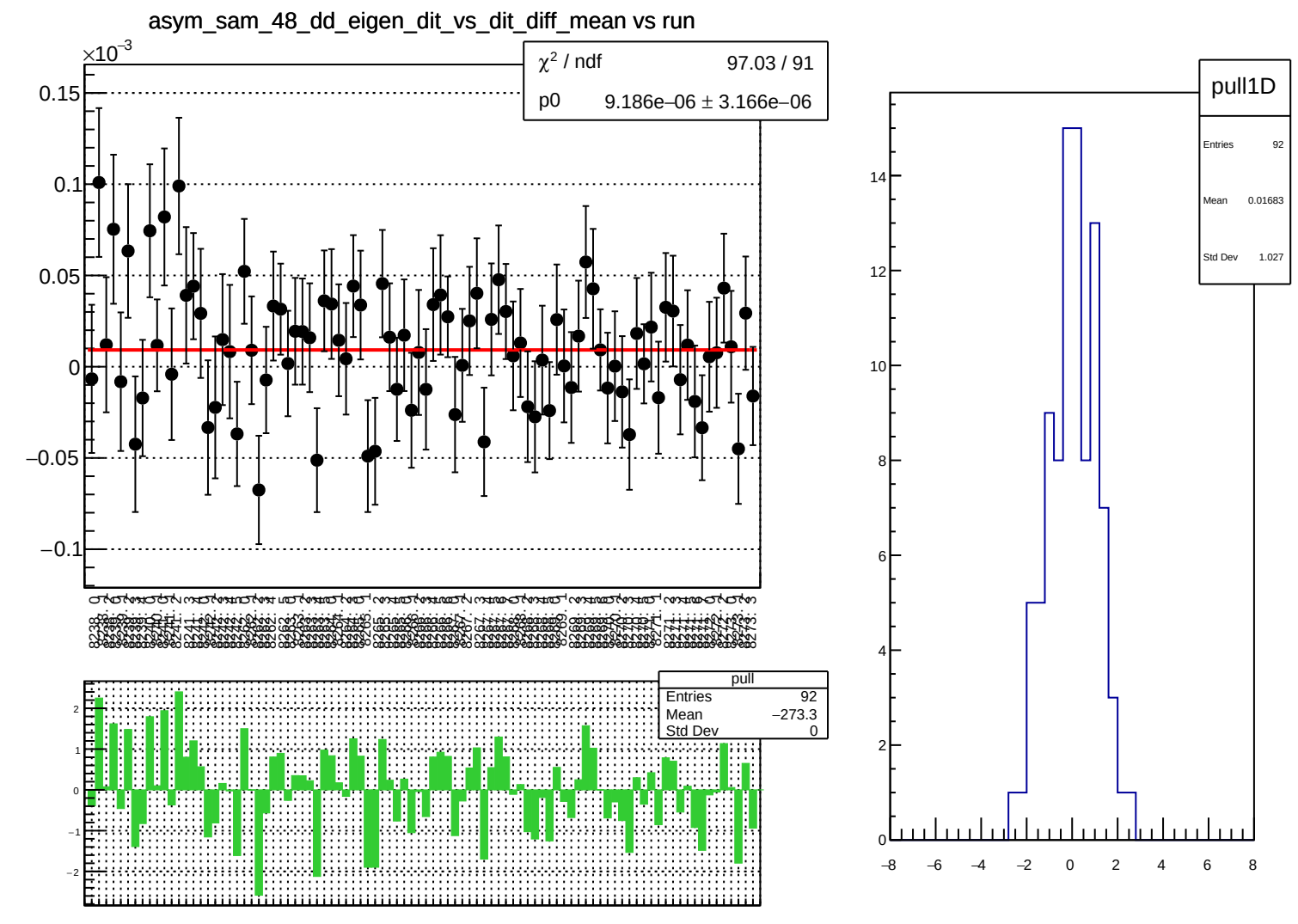

pull1D
Entries 92
Mean −0.02398
Std Dev 0.9701

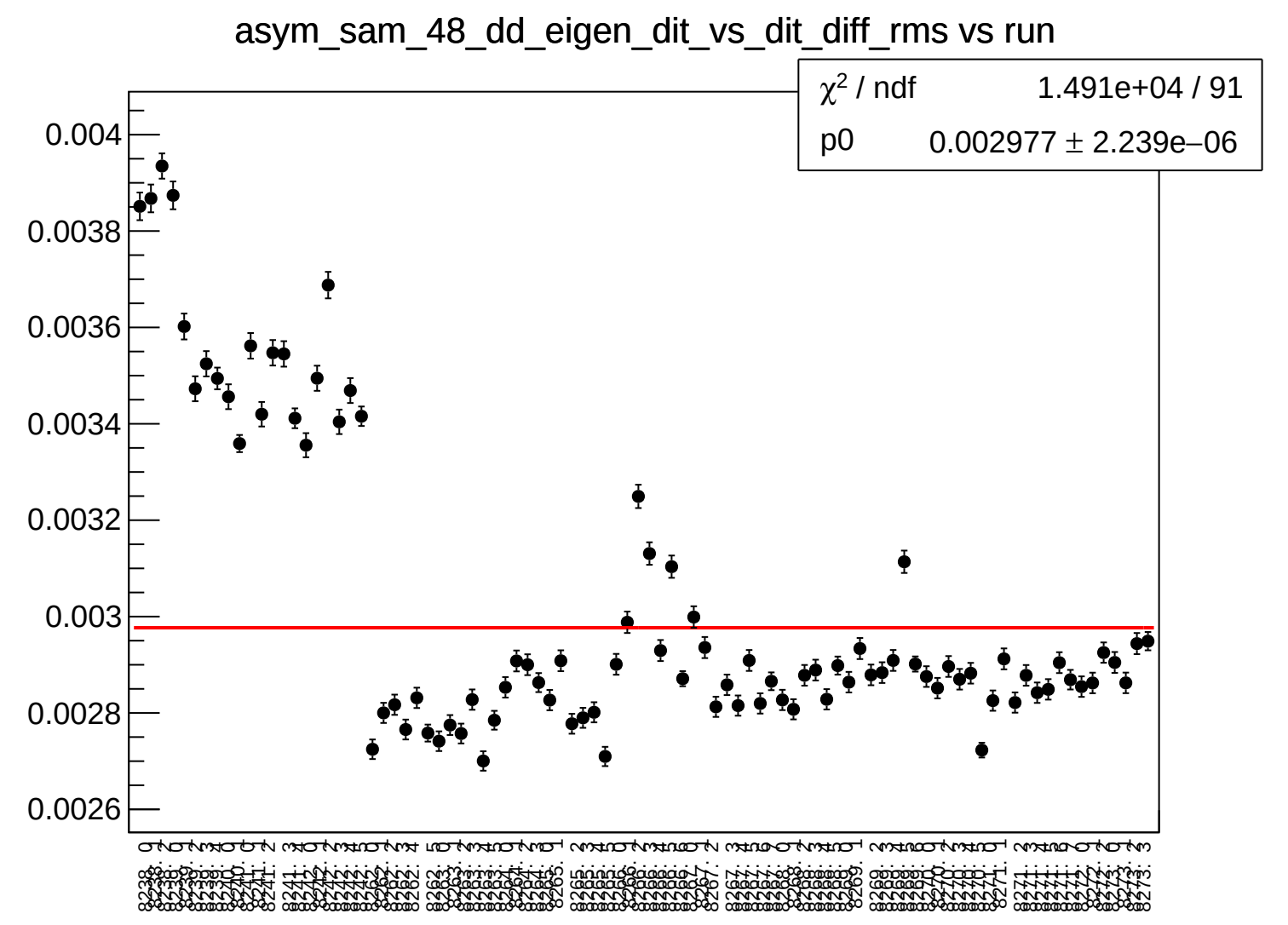

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.15e+04 / 91
p0 56.7 ± 0.04334
110
100
90
80
70
60
50
40

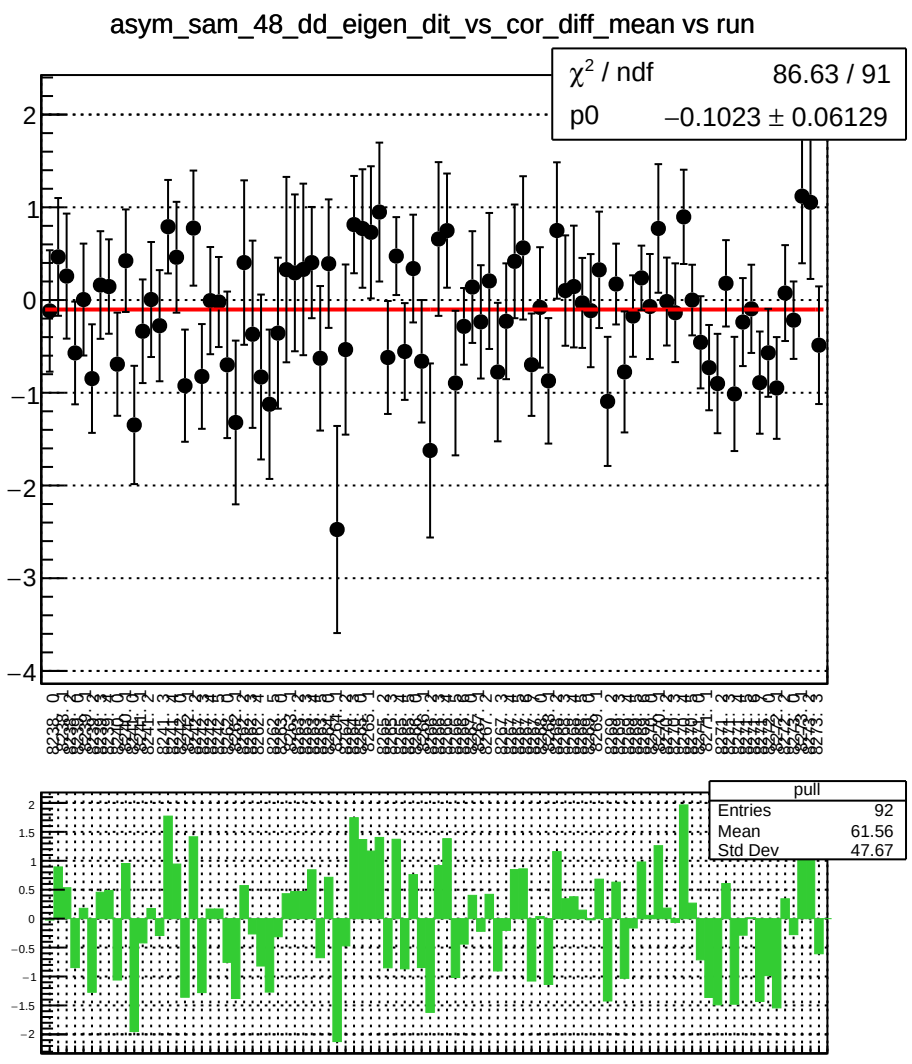

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.63 / 91
p0 −0.1023 ± 0.06129
pull
Entries 92
Mean 61.55
Std Dev 47.68

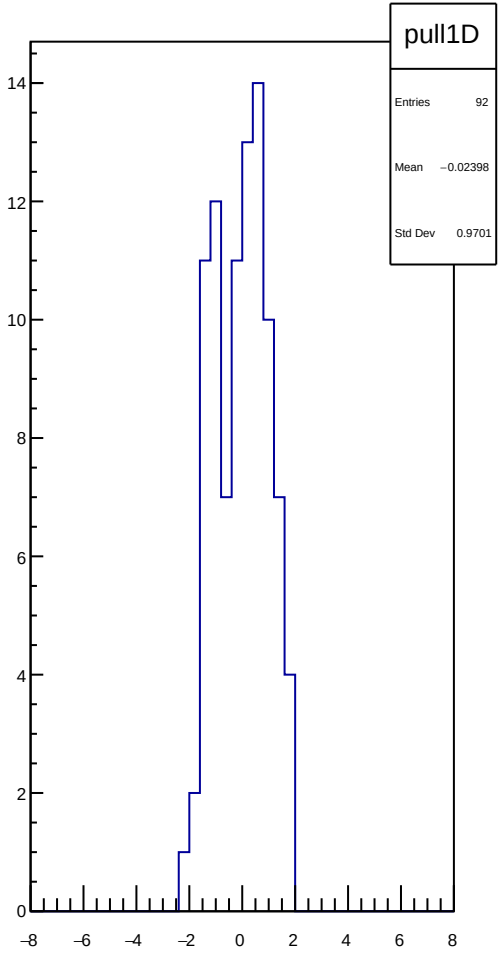

pull1D
Entries 92
Mean −0.02398
Std Dev 0.9701

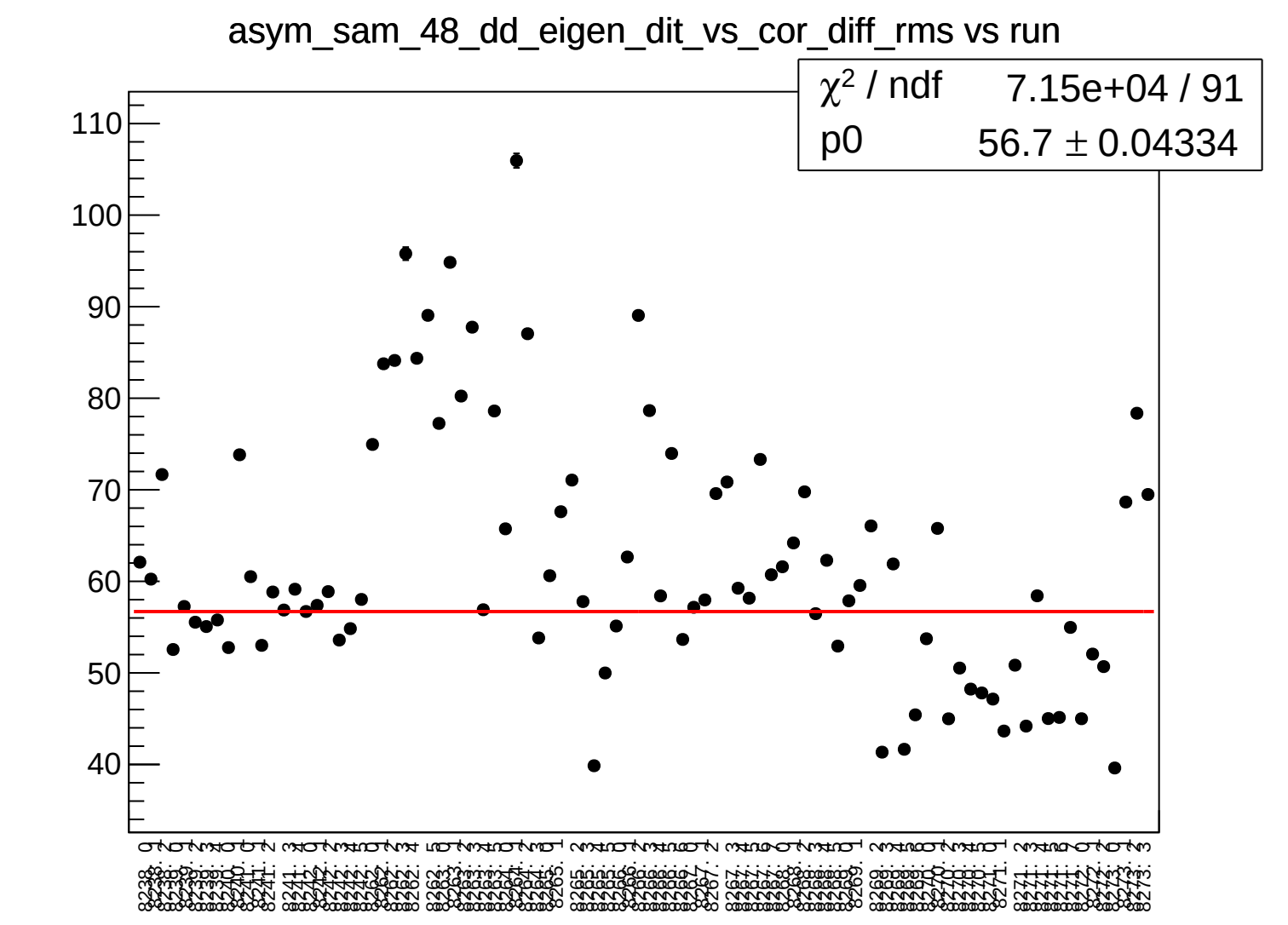

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.15e+04 / 91
p0 56.7 ± 0.04334
110
100
90
80
70
60
50
40

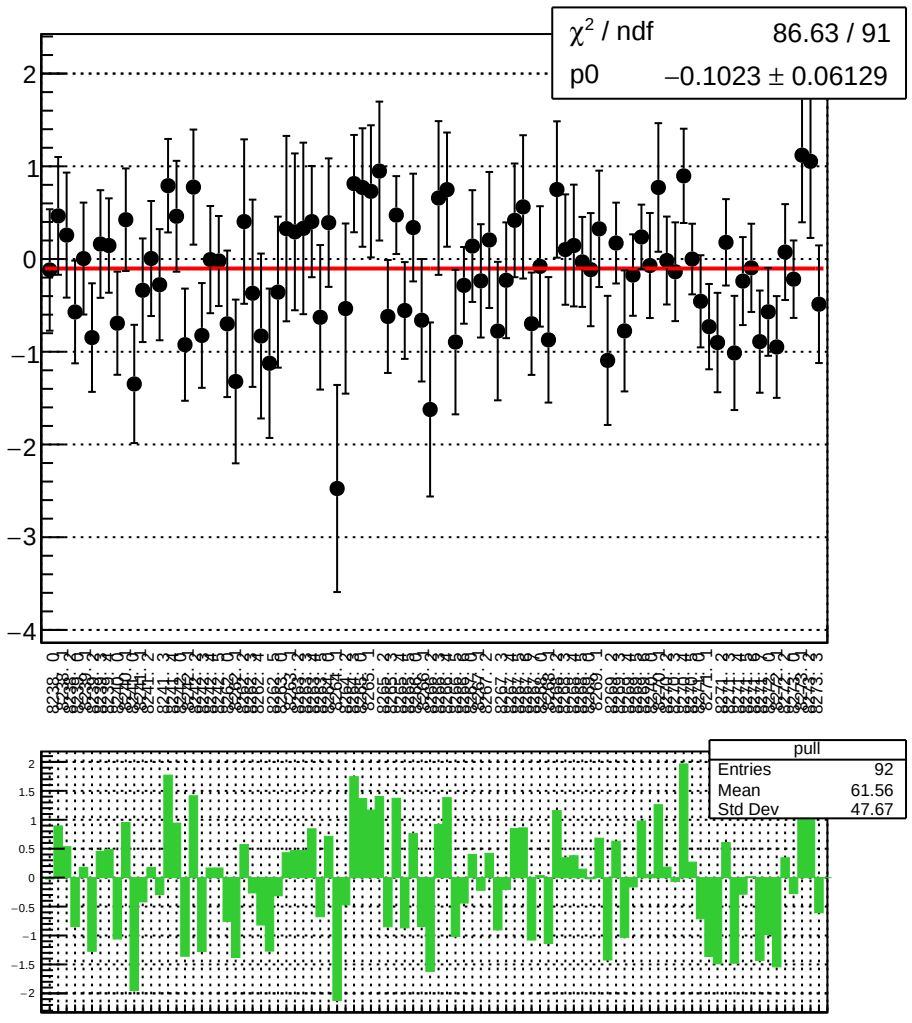

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.03 / 91
p0 9.186e−06 ± 3.166e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean −273.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.01683
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

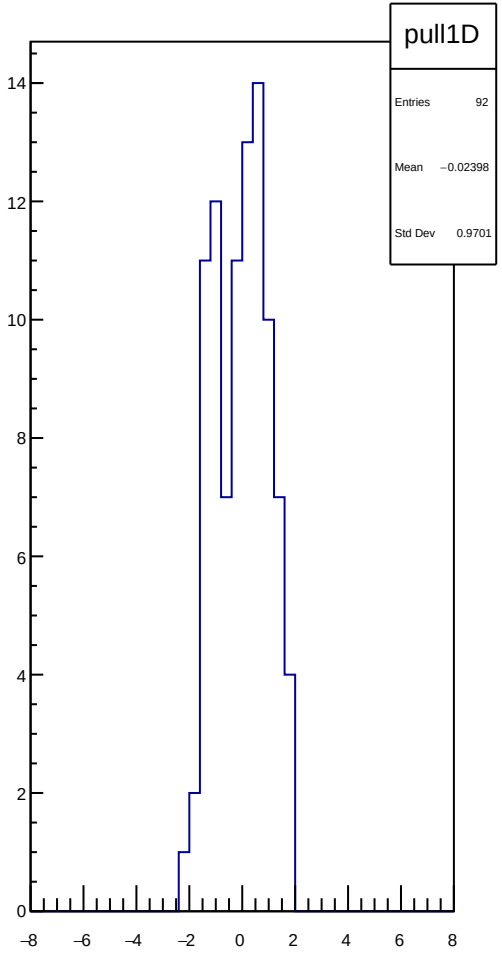

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.491e+04 / 91
p0 0.002977 ± 2.239e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

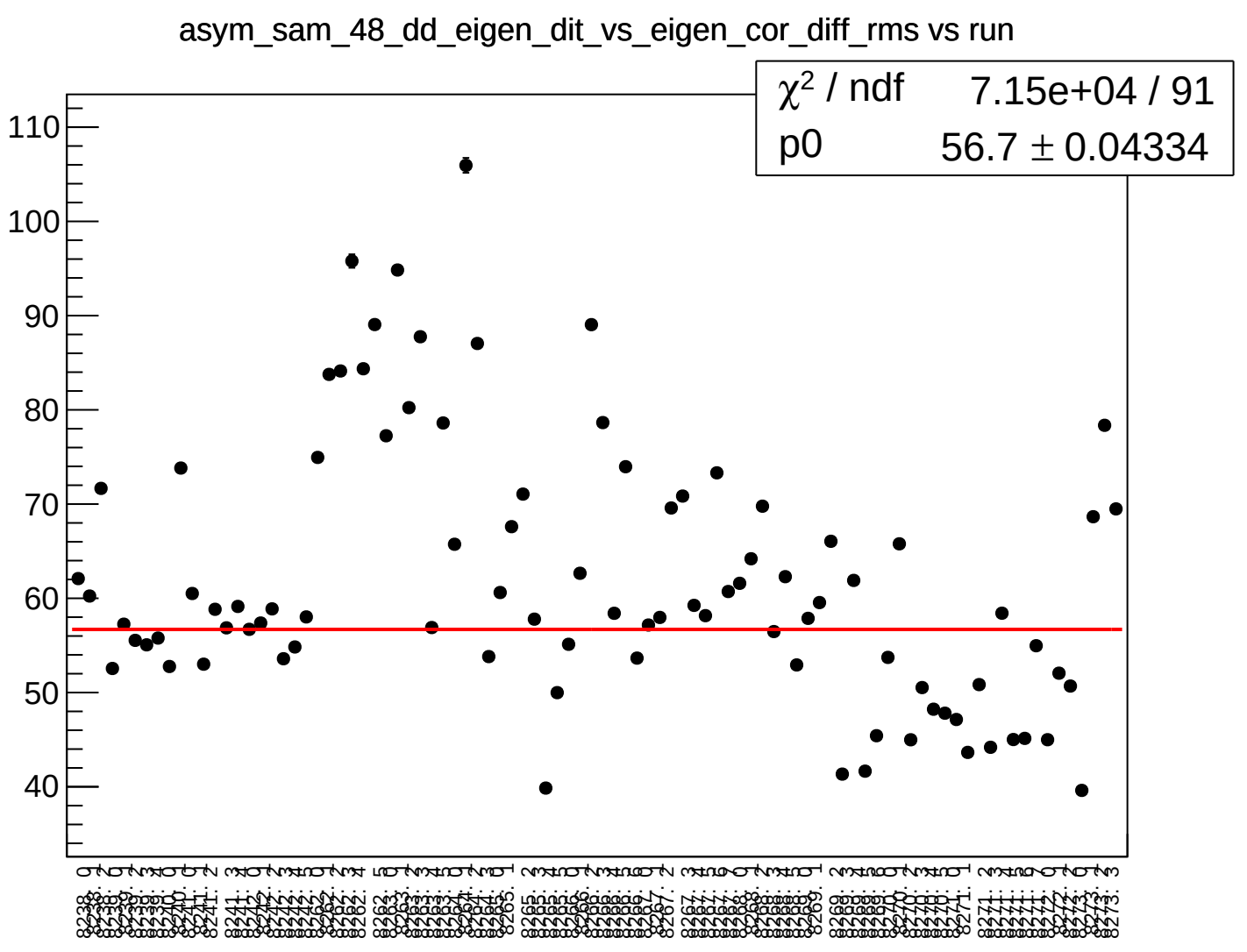

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.63 / 91
p0 −0.1023 ± 0.06129
pull
Entries 92
Mean 61.56
Std Dev 47.67

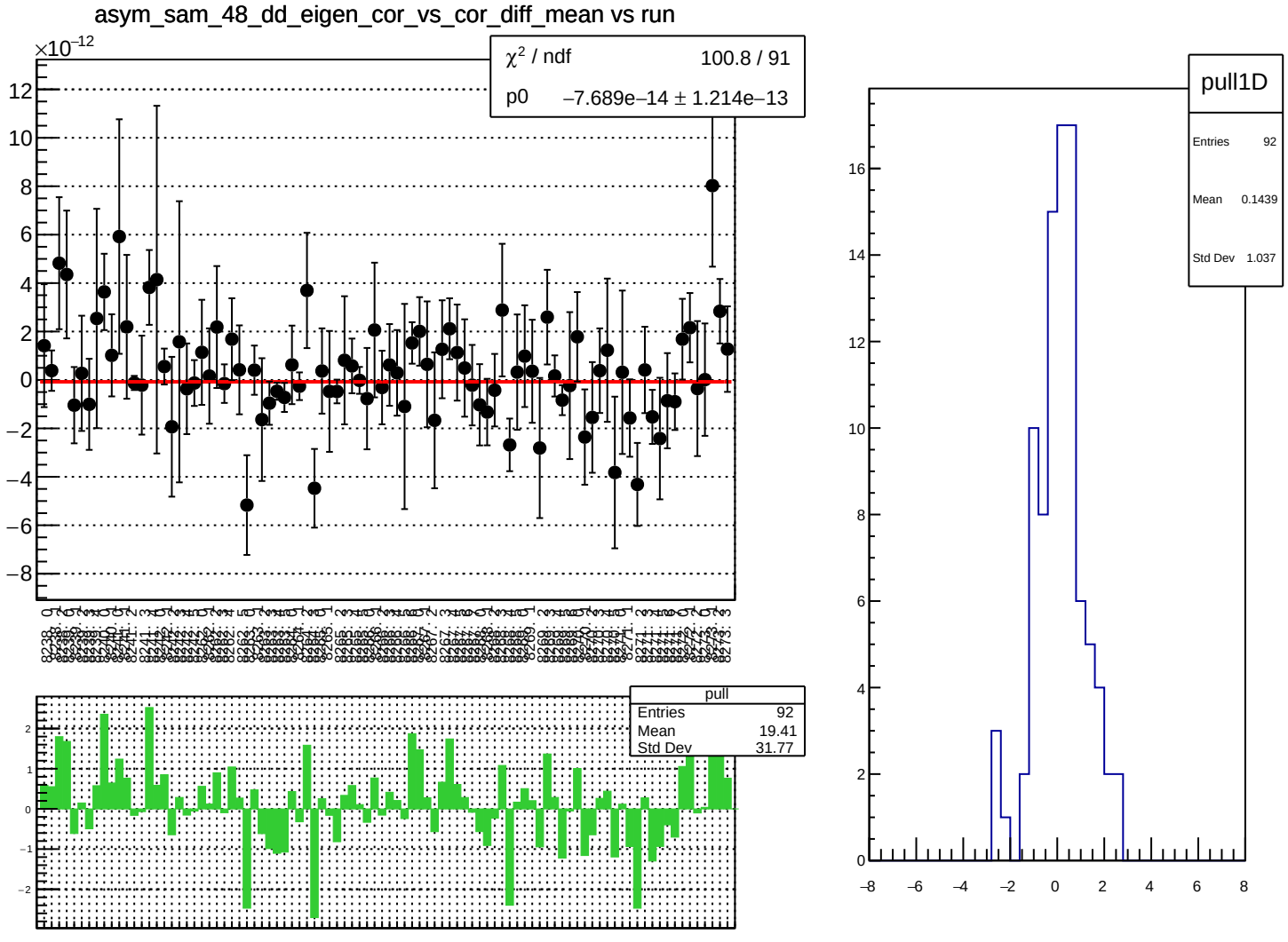

pull1D
Entries 92
Mean −0.02398
Std Dev 0.9701

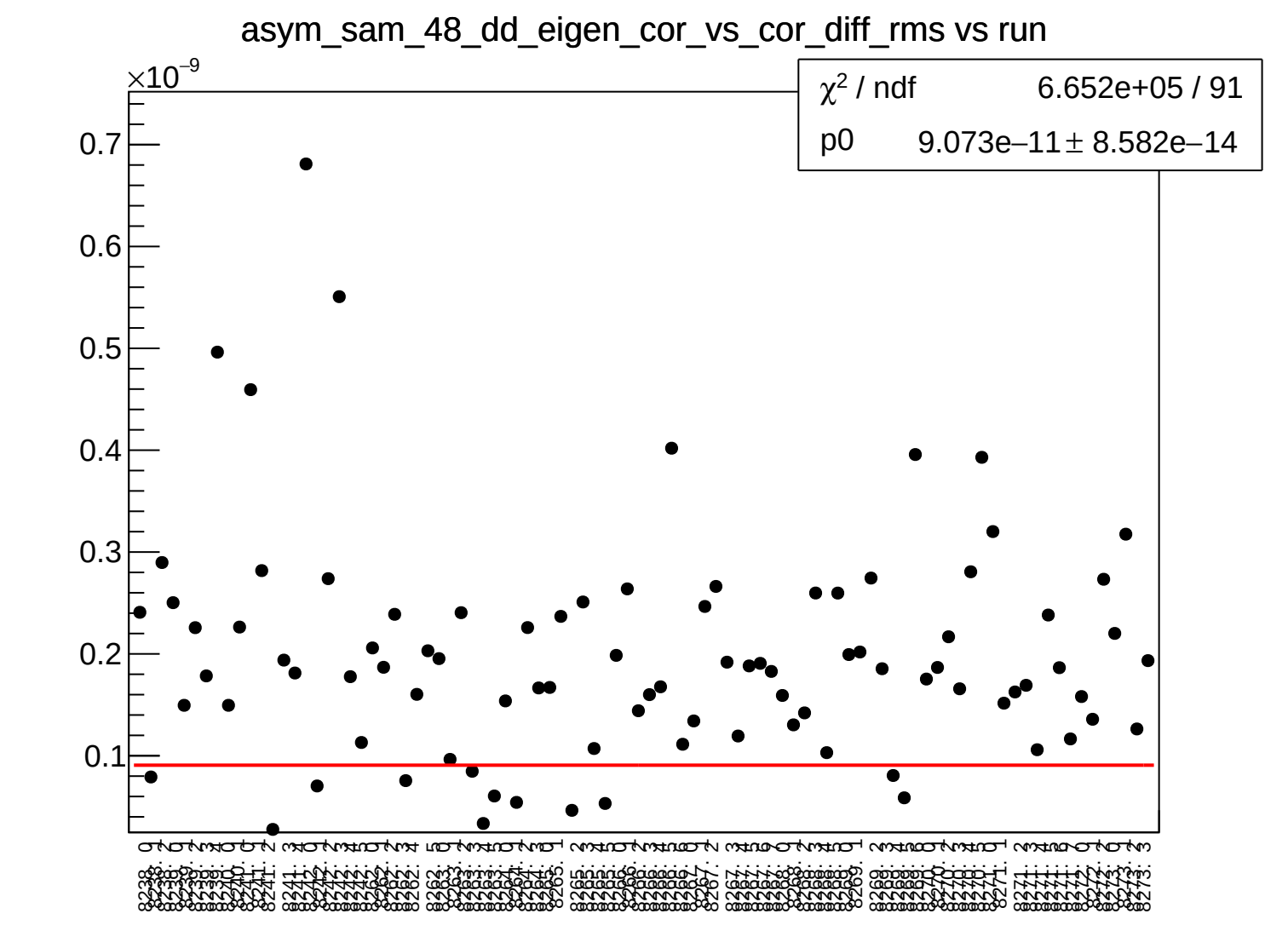

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.15e+04 / 91
p0 56.7 ± 0.04334
110
100
90
80
70
60
50
40

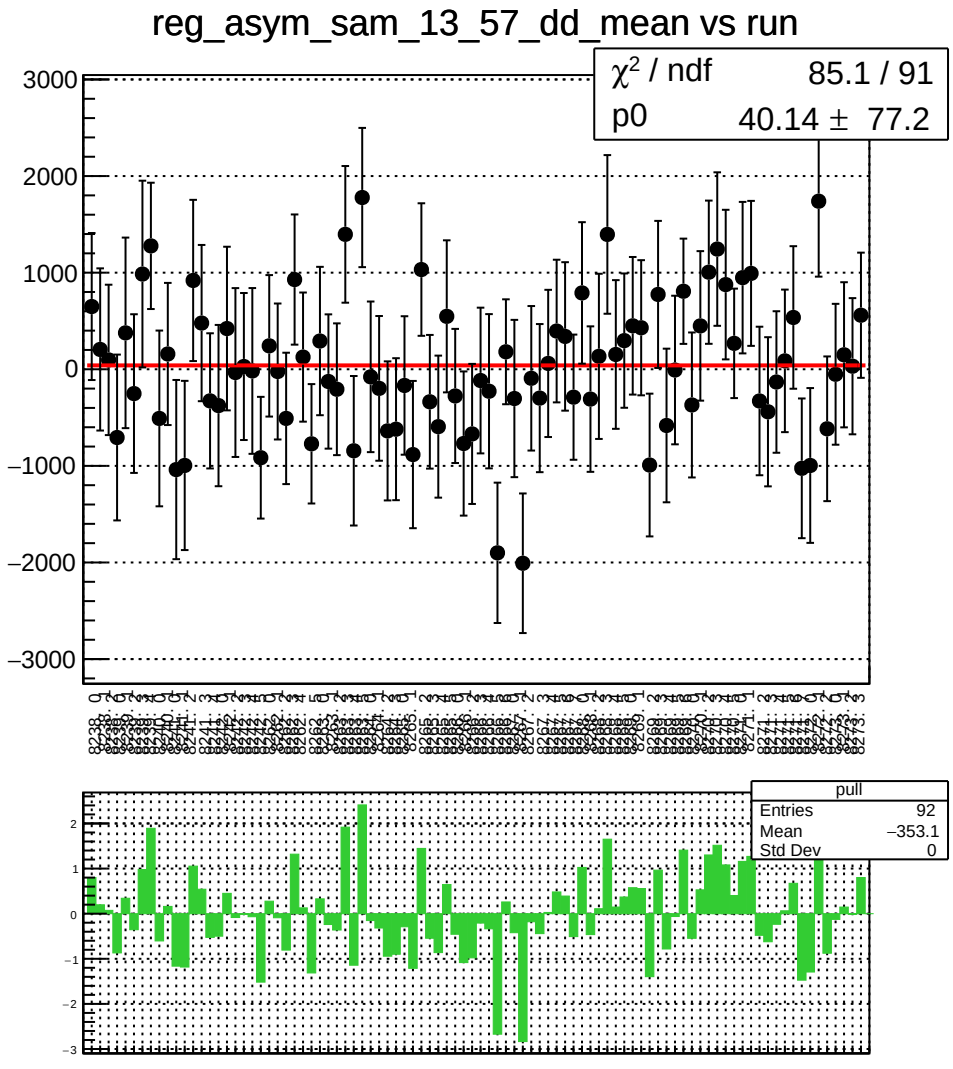

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.63 / 91
p0 −0.1023 ± 0.06129
pull
Entries 92
Mean 61.56
Std Dev 47.67

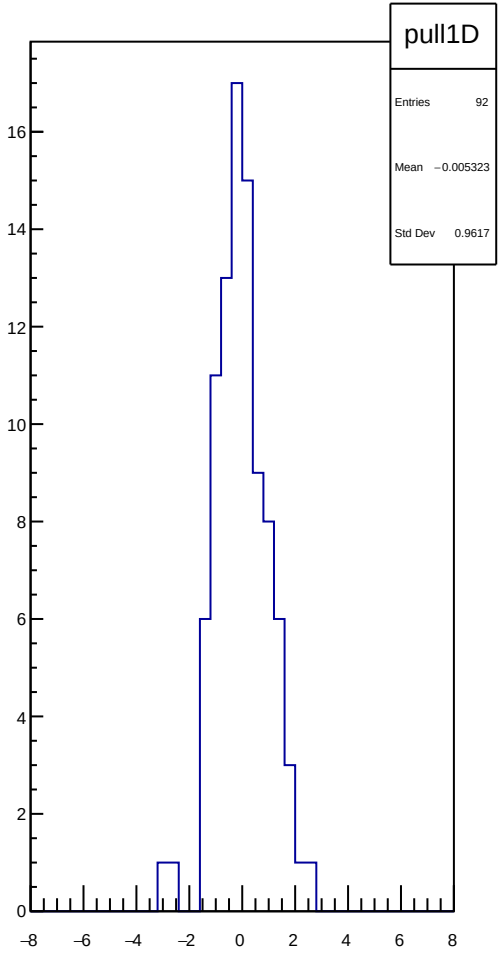

pull1D
Entries 92
Mean −0.02398
Std Dev 0.9701

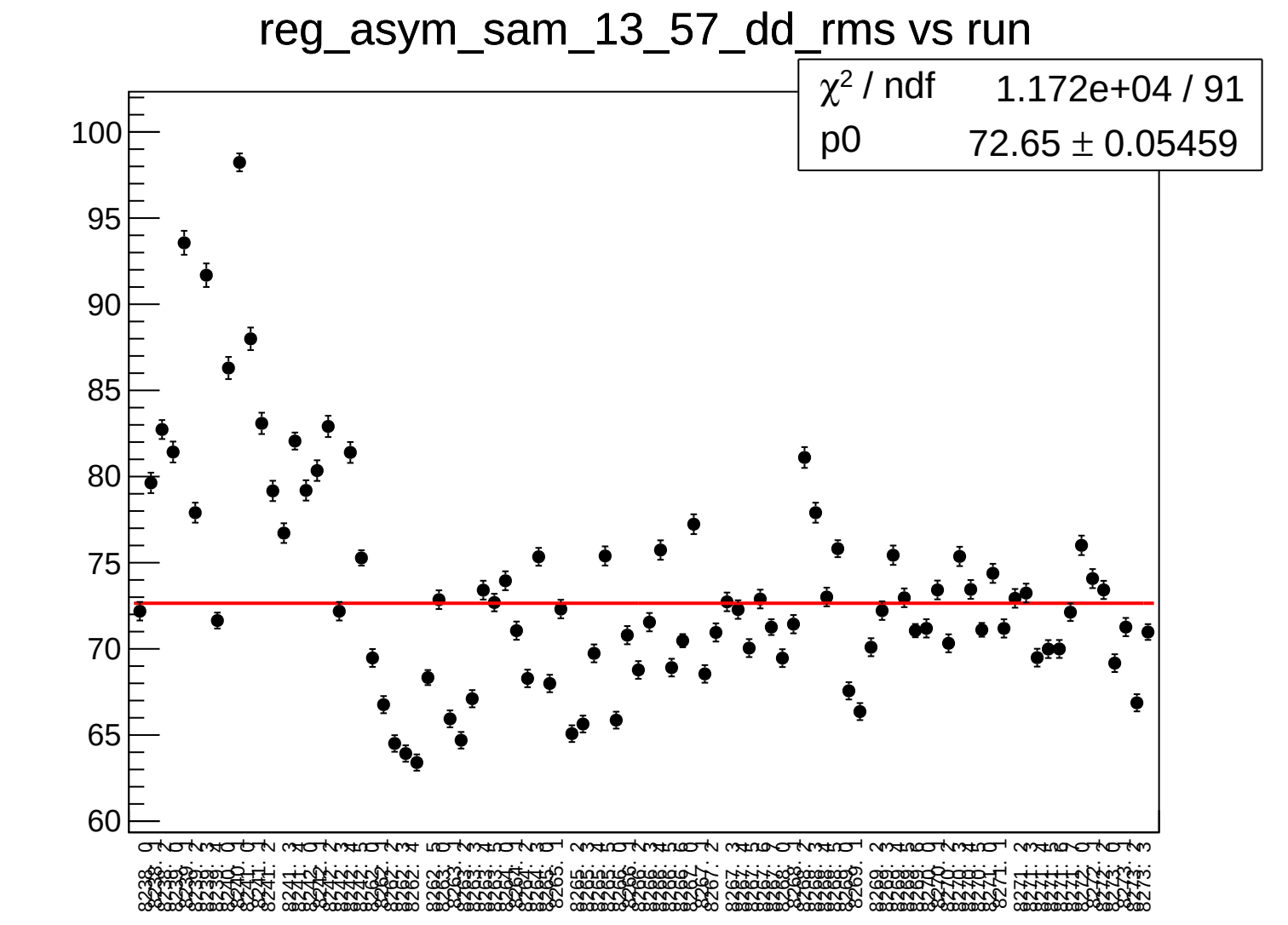

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.15e+04 / 91
p0 56.7 ± 0.04334
110
100
90
80
70
60
50
40

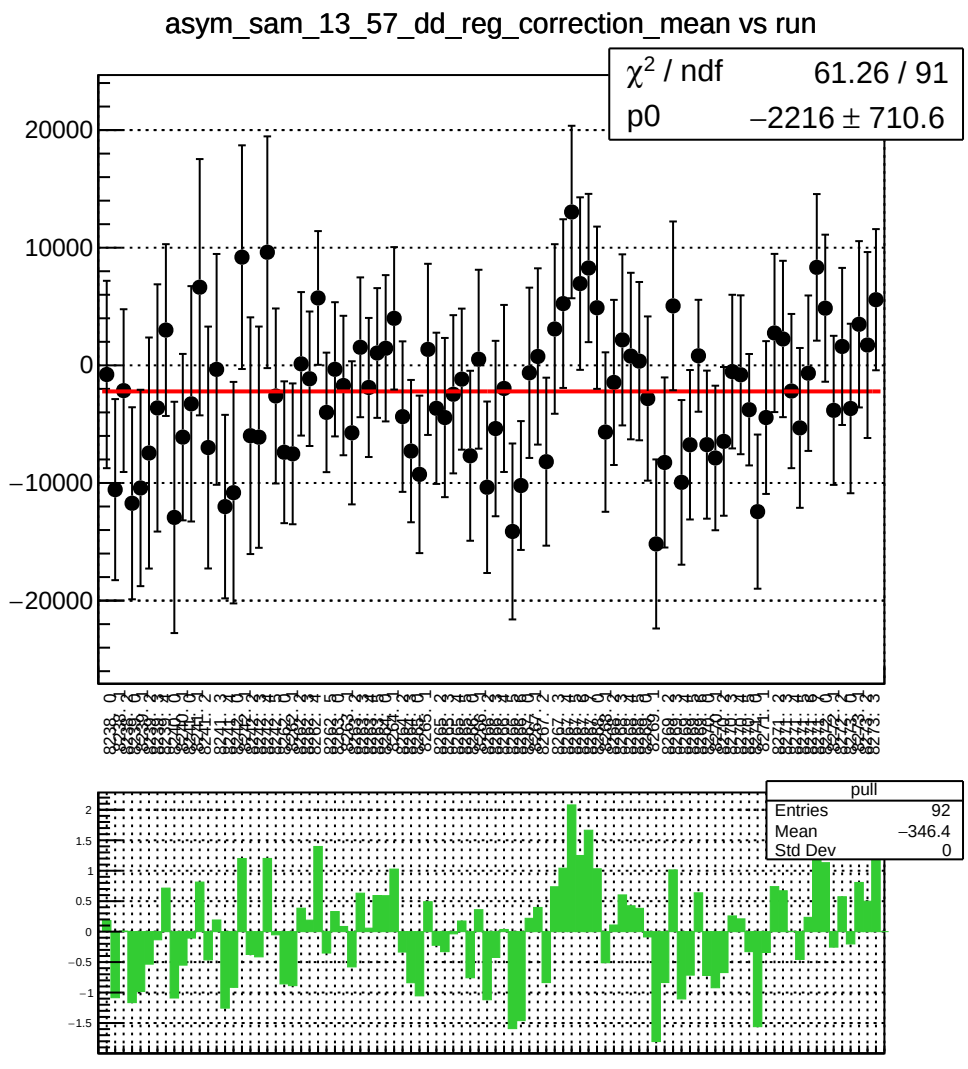

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.8 / 91
p0 −7.689e−14 ± 1.214e−13
pull
Entries 92
Mean 19.41
Std Dev 31.77
pull1D
Entries 92
Mean 0.1439
Std Dev 1.037

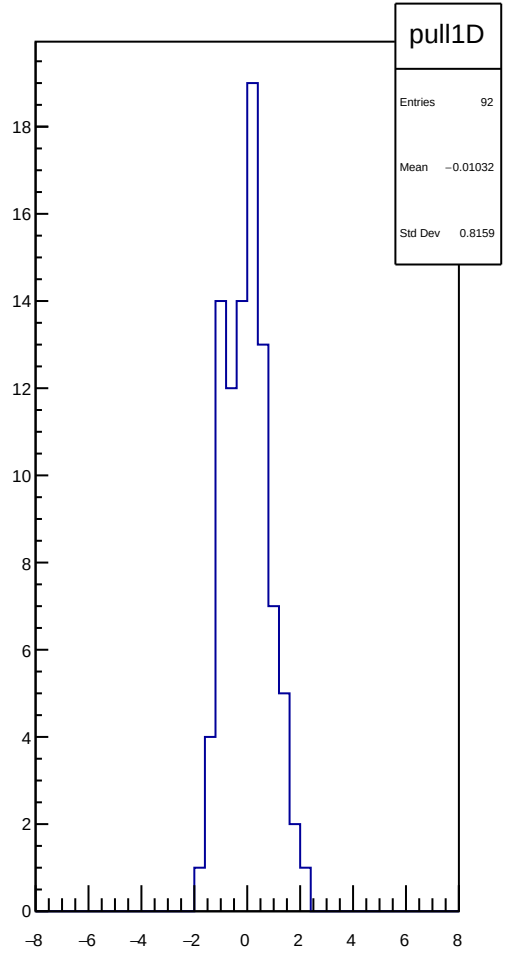

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.652e+05 / 91
p0 9.073e−11 ± 8.582e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

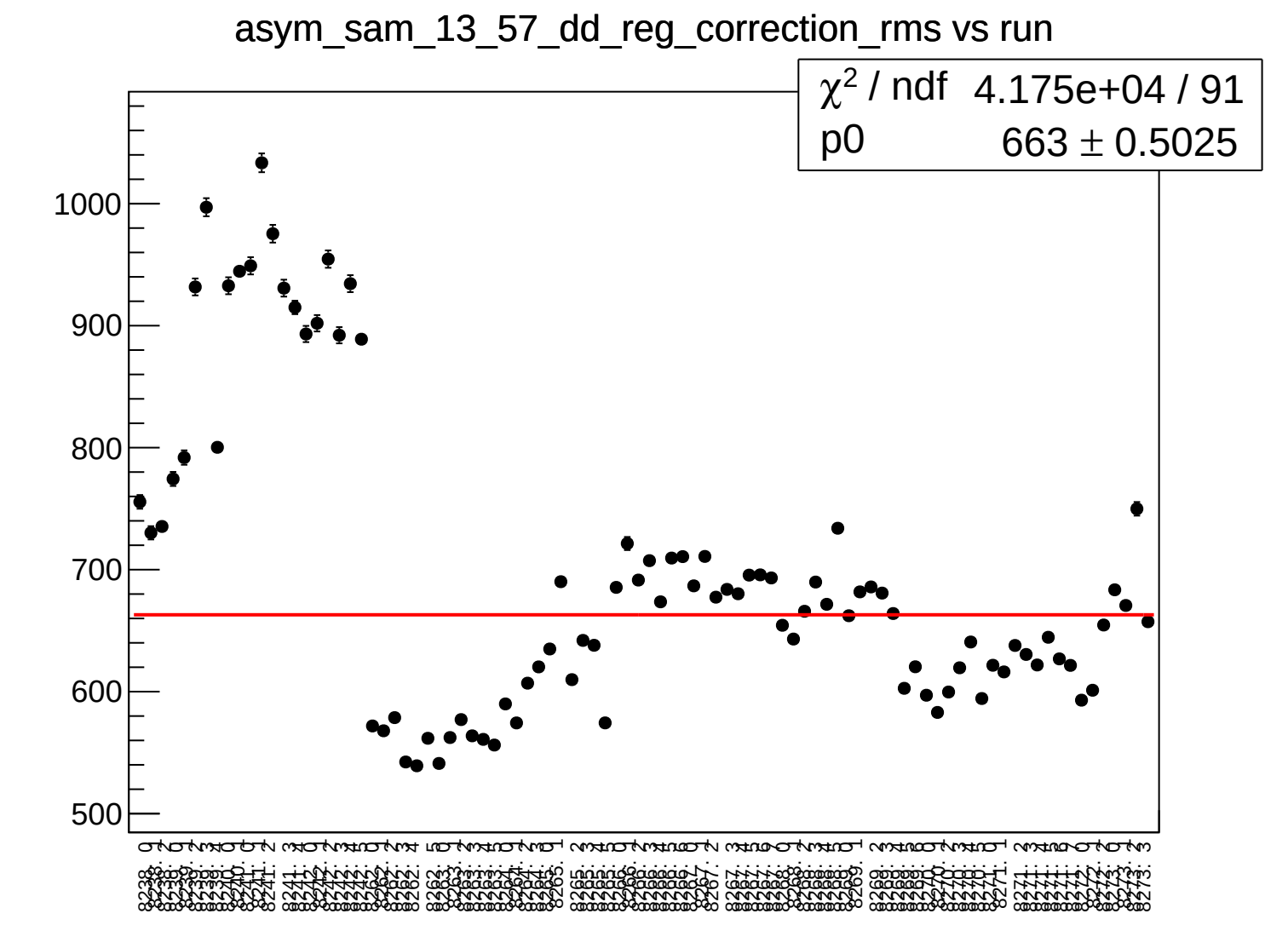

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 85.1 / 91
p0 40.14 ± 77.2
pull
Entries 92
Mean −353.1
Std Dev 0

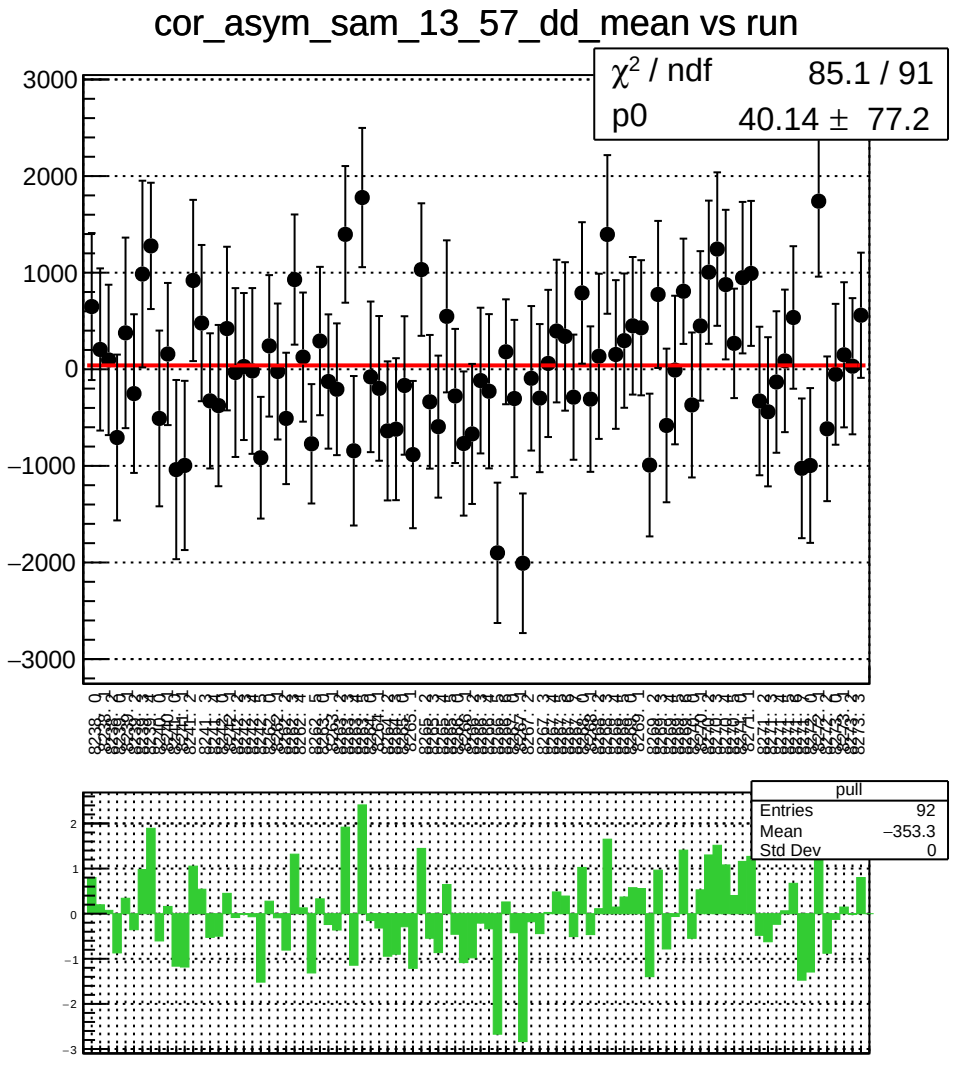

pull1D
Entries 92
Mean −0.005323
Std Dev 0.9617

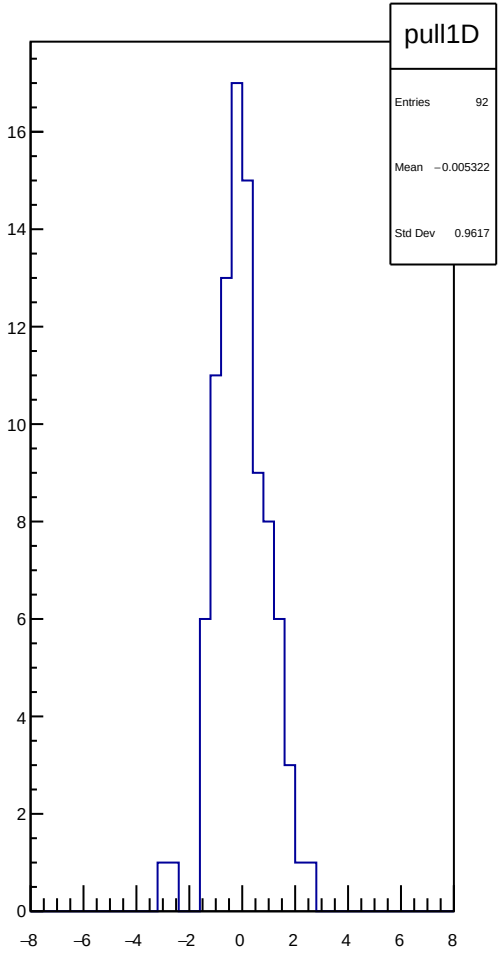

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.172e+04 / 91
p0 72.65 ± 0.05459
100
95
90
85
80
75
70
65
60

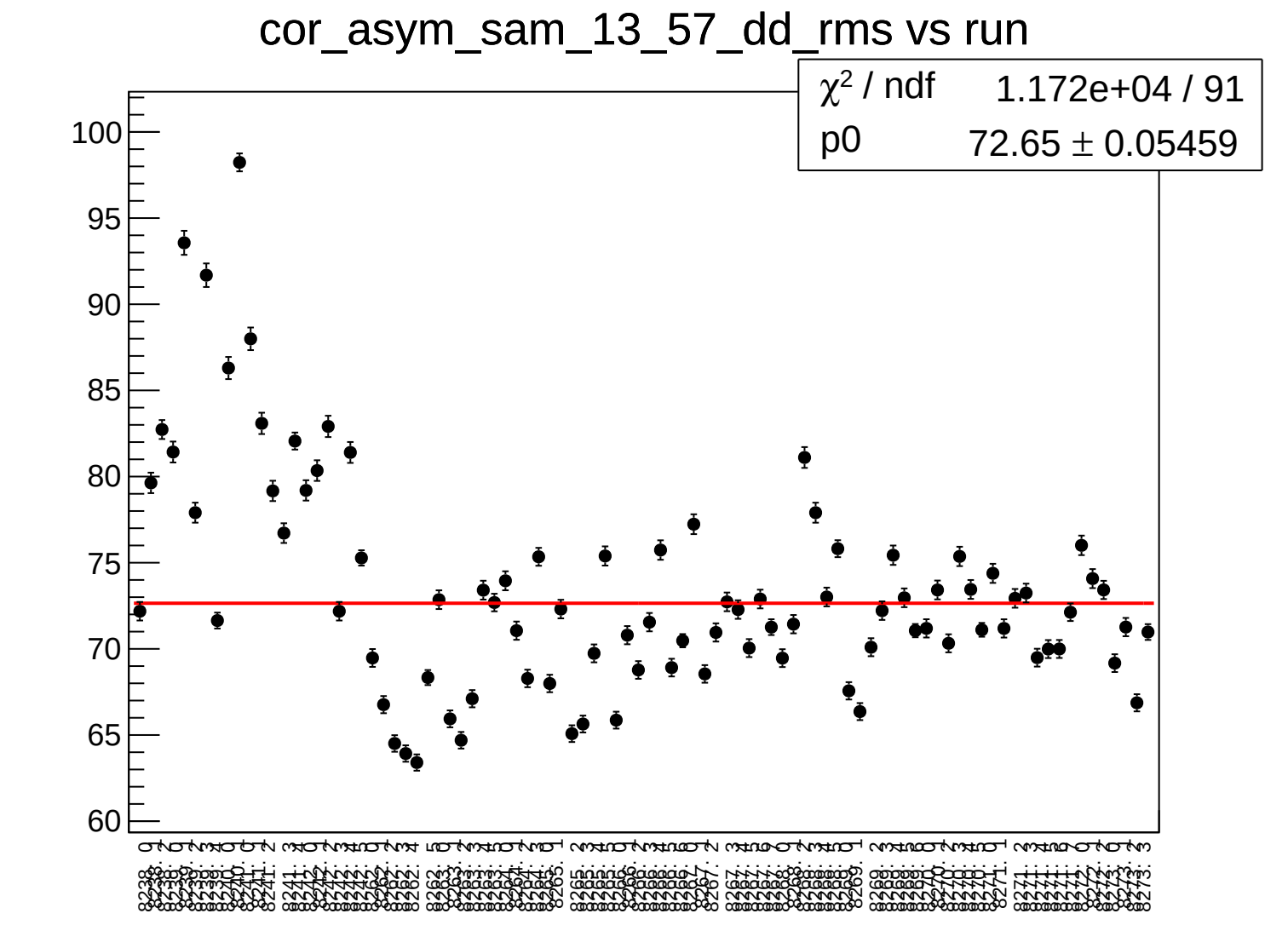

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 61.26 / 91
p0 −2216 ± 710.6
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −346.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

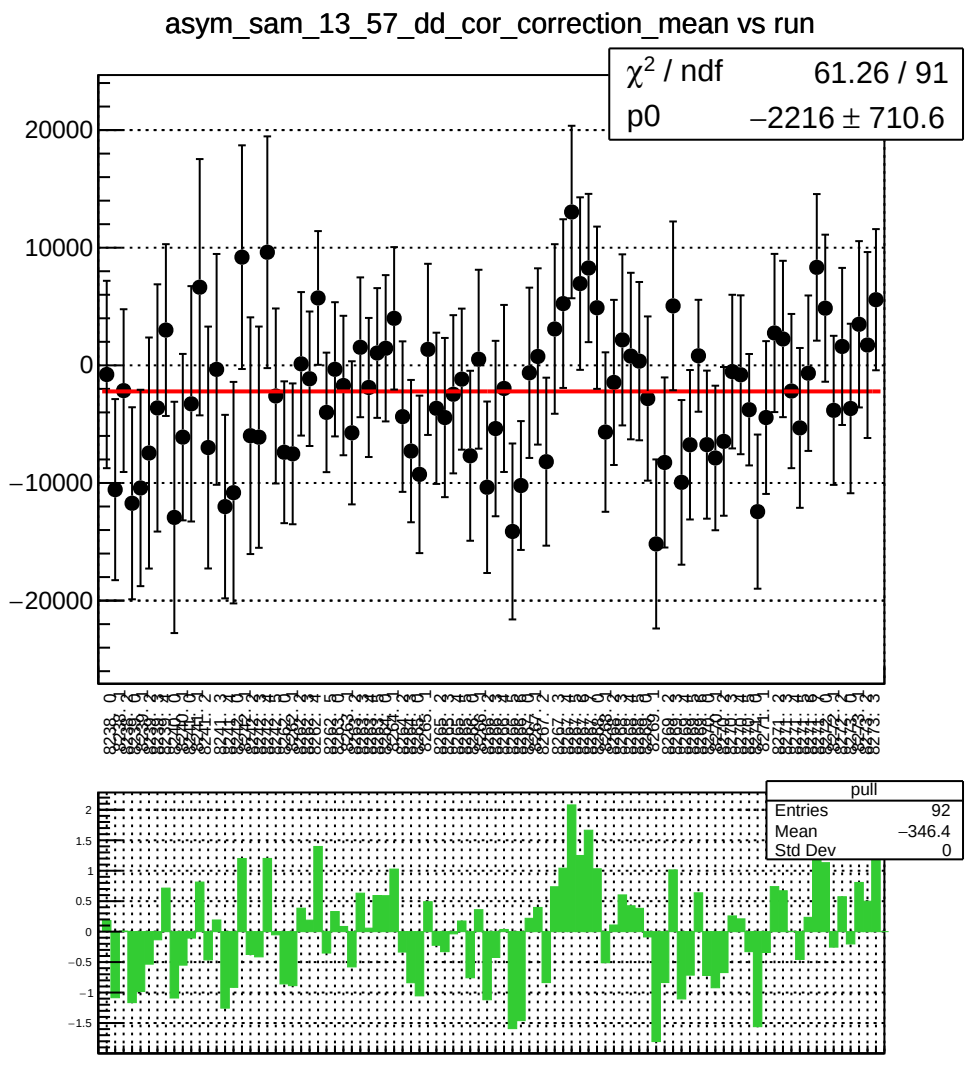

pull1D
Entries 92
Mean −0.01032
Std Dev 0.8159
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

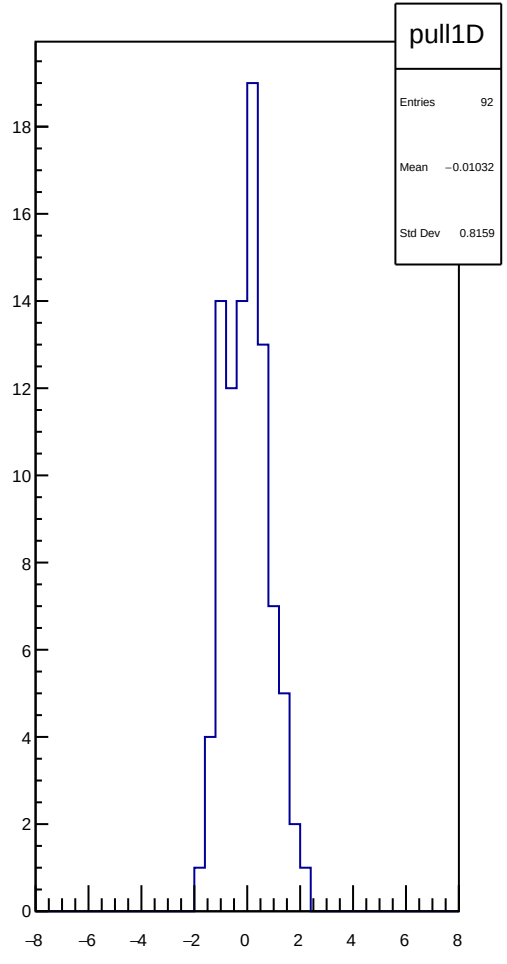

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 4.175e+04 / 91
p0 663 ± 0.5025
1000
900
800
700
600
500

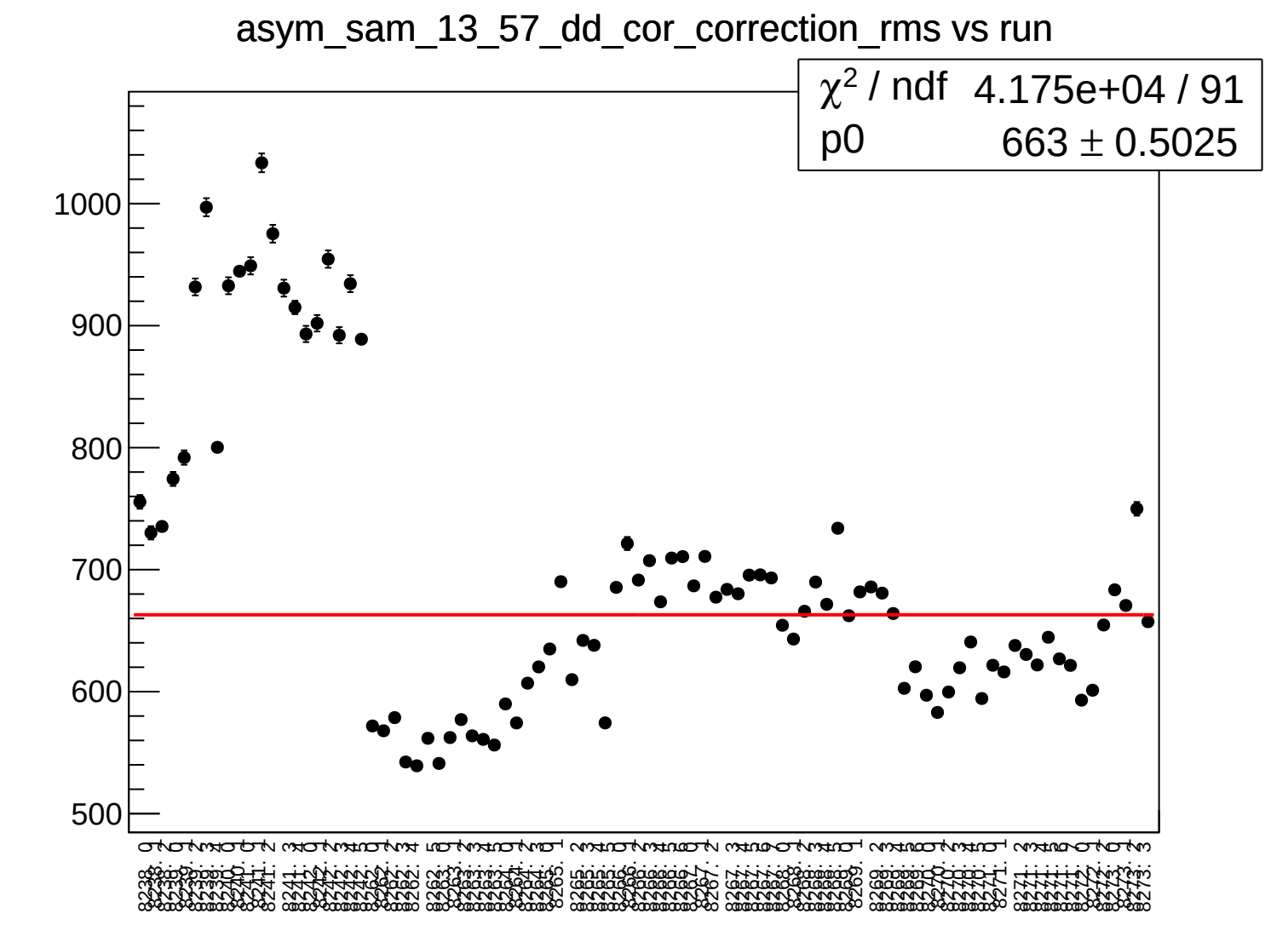

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 85.1 / 91
p0 40.14 ± 77.2
pull
Entries 92
Mean −353.3
Std Dev 0

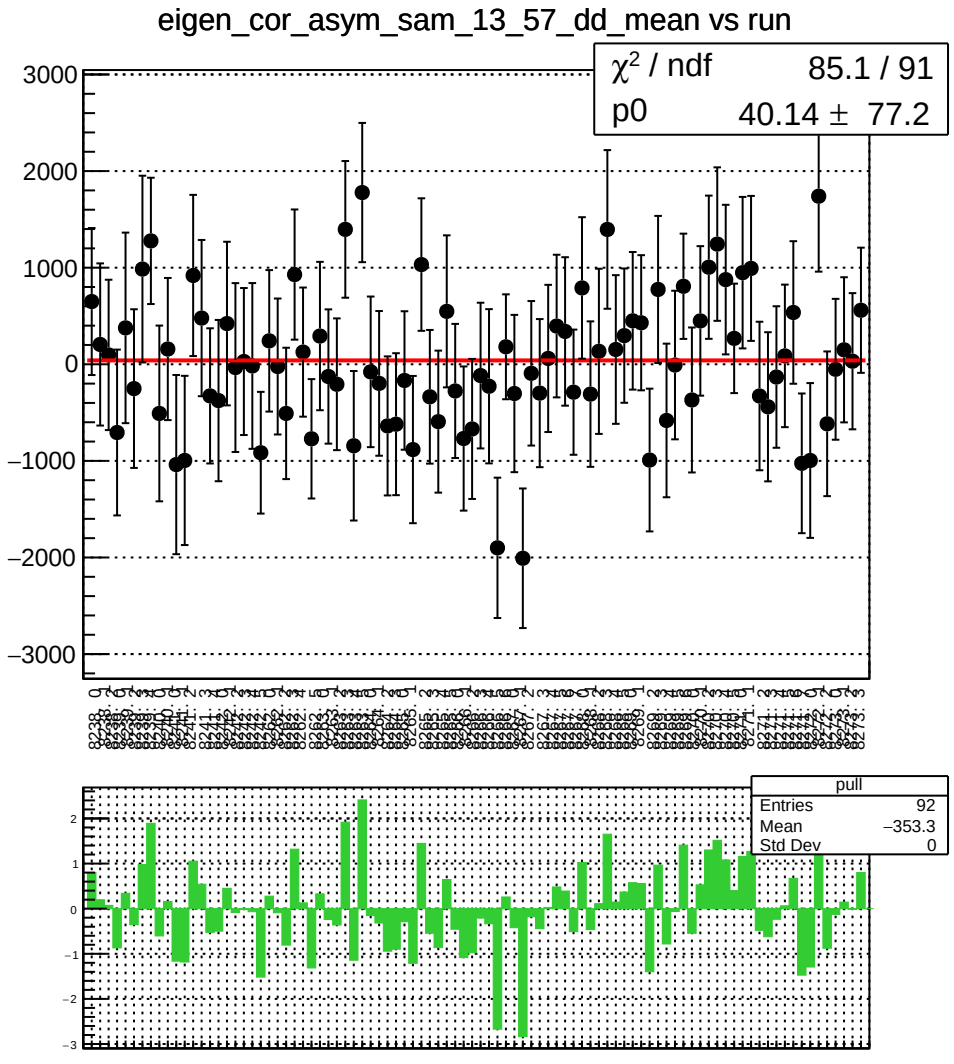

pull1D
Entries 92
Mean −0.005322
Std Dev 0.9617

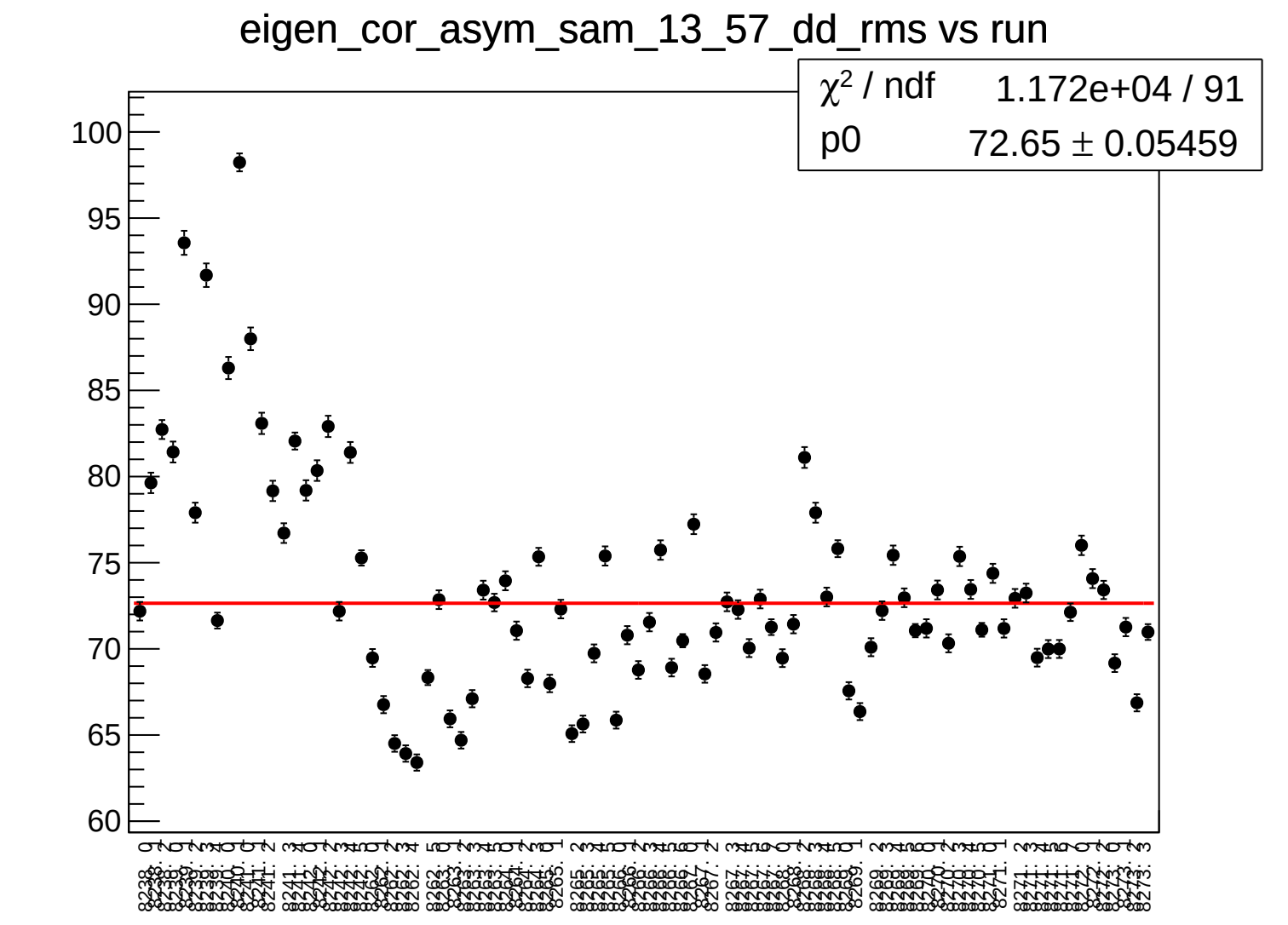

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.172e+04 / 91
p0 72.65 ± 0.05459
100
95
90
85
80
75
70
65
60

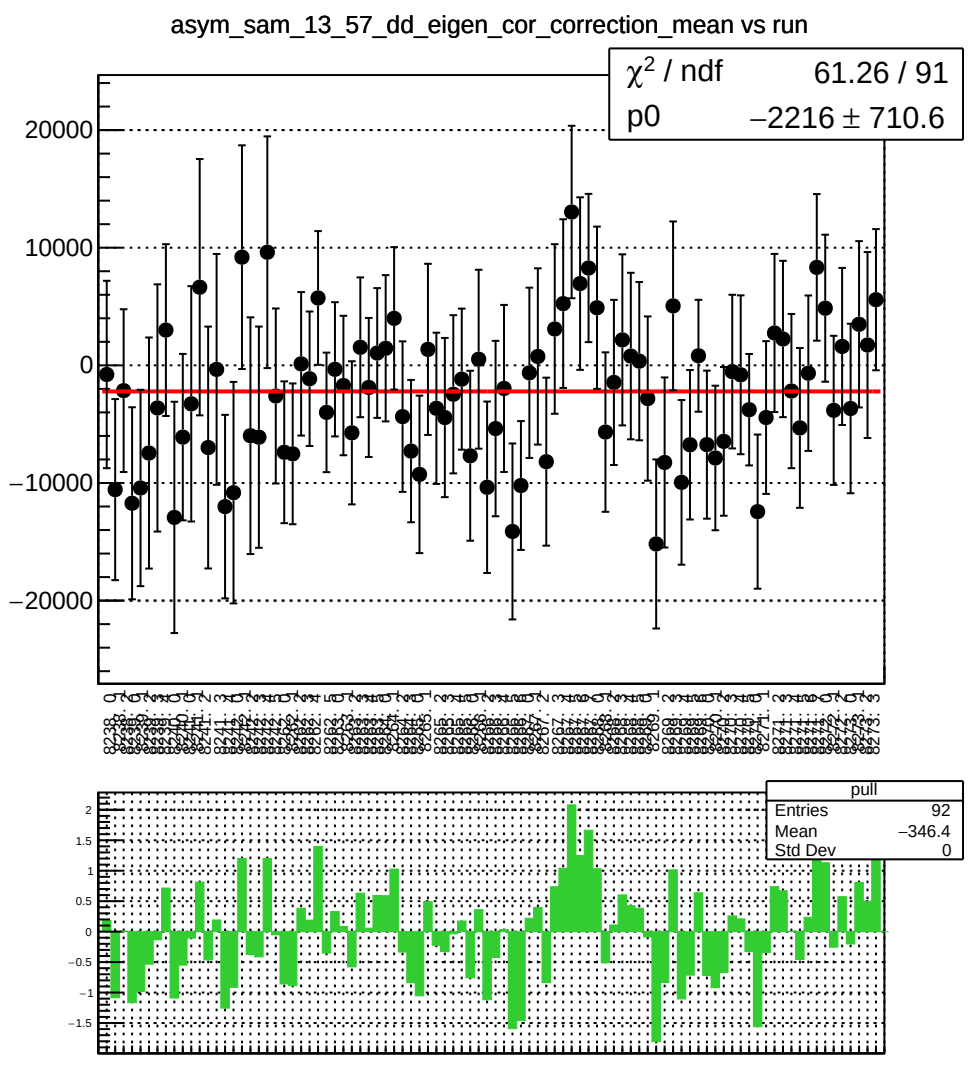

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 61.26 / 91
p0 −2216 ± 710.6
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −346.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

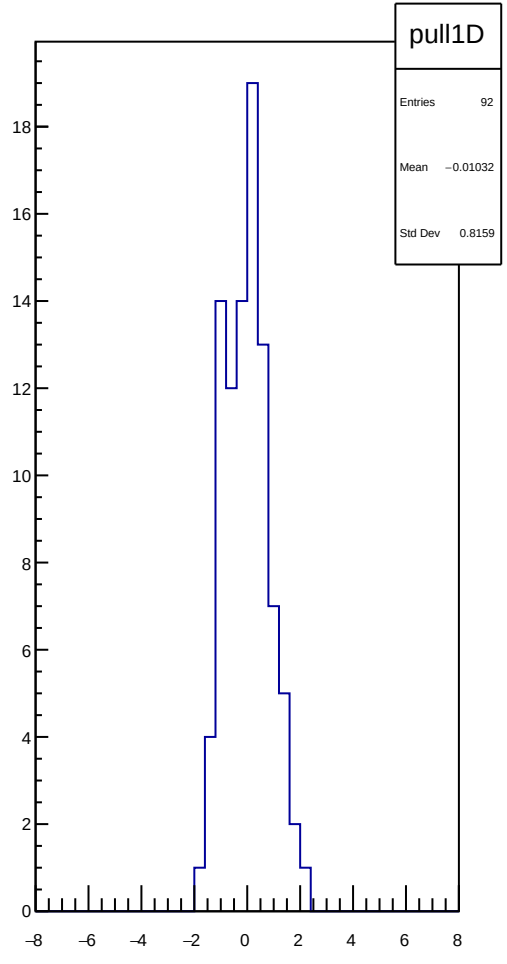

pull1D
Entries 92
Mean −0.01032
Std Dev 0.8159
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

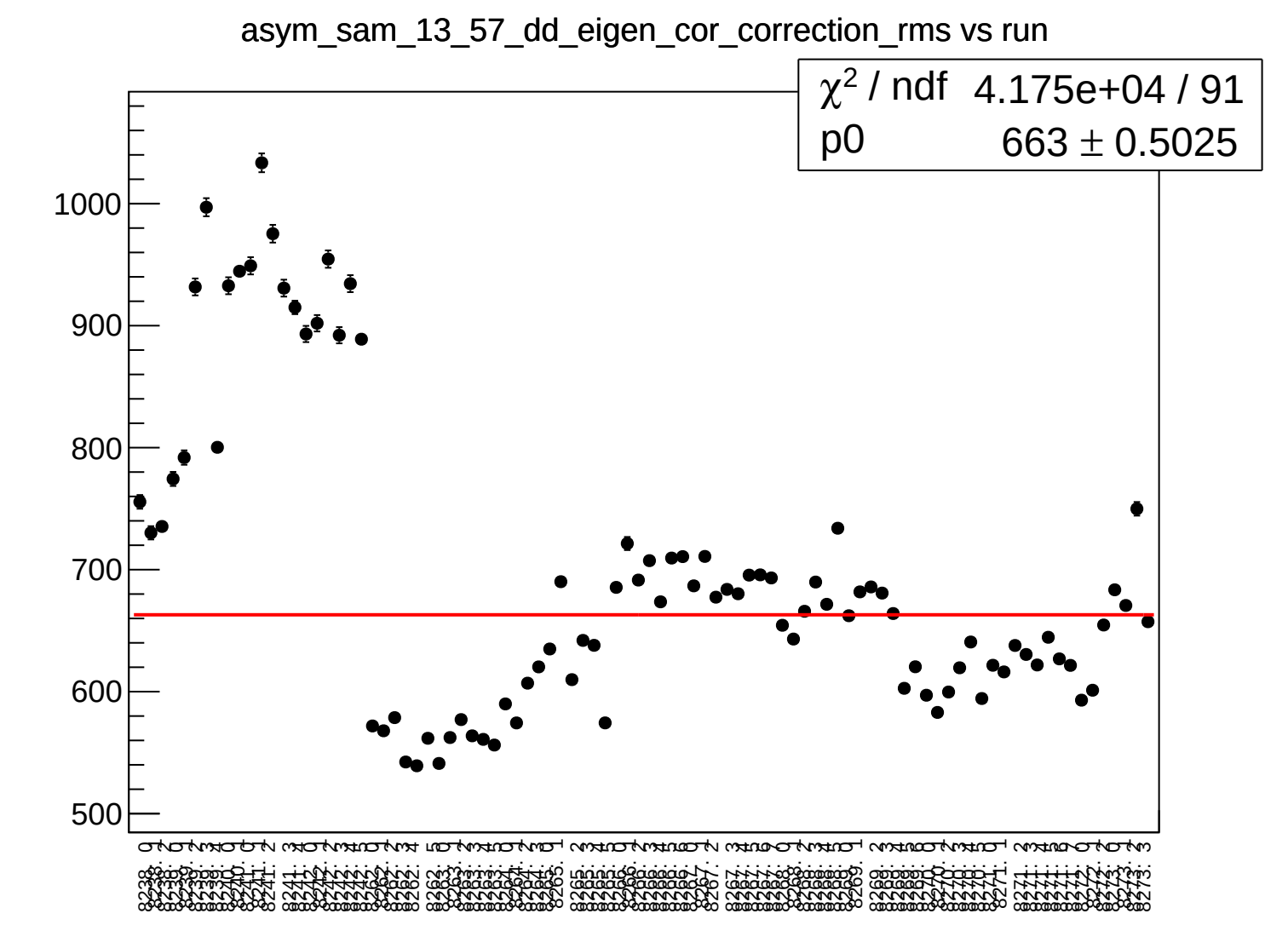

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 4.175e+04 / 91
p0 663 ± 0.5025
1000
900
800
700
600
500

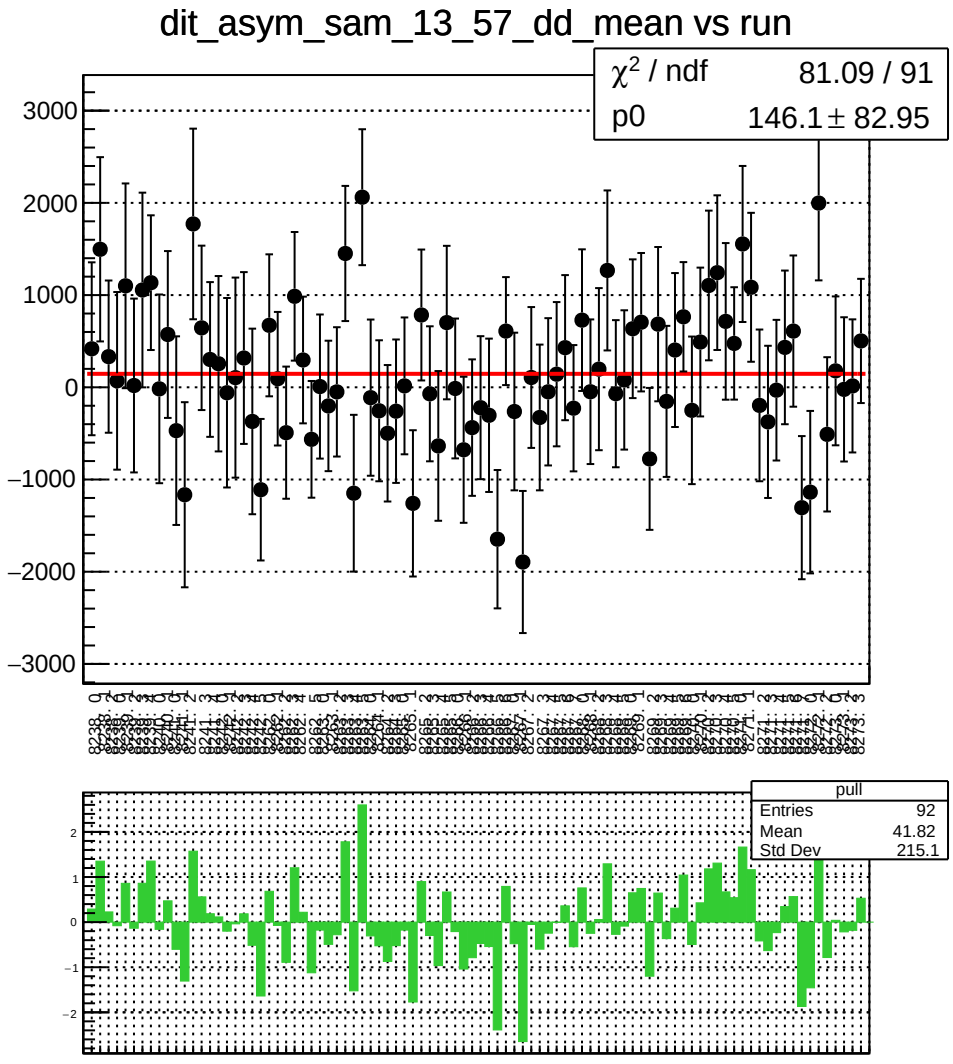

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 85.1 / 91
p0 40.14 ± 77.2
pull
Entries 92
Mean −353.3
Std Dev 0
pull1D
Entries 92
Mean −0.005322
Std Dev 0.9617

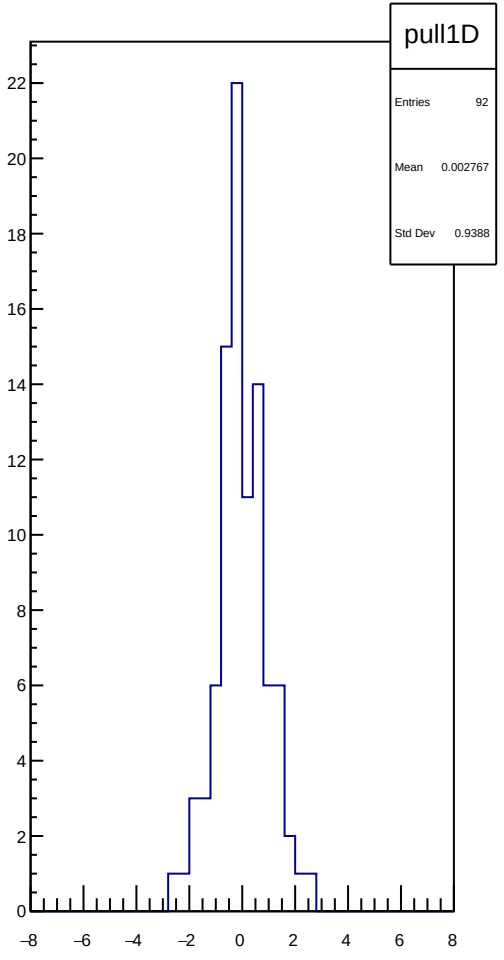

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.172e+04 / 91
p0 72.65 ± 0.05459
100
95
90
85
80
75
70
65
60

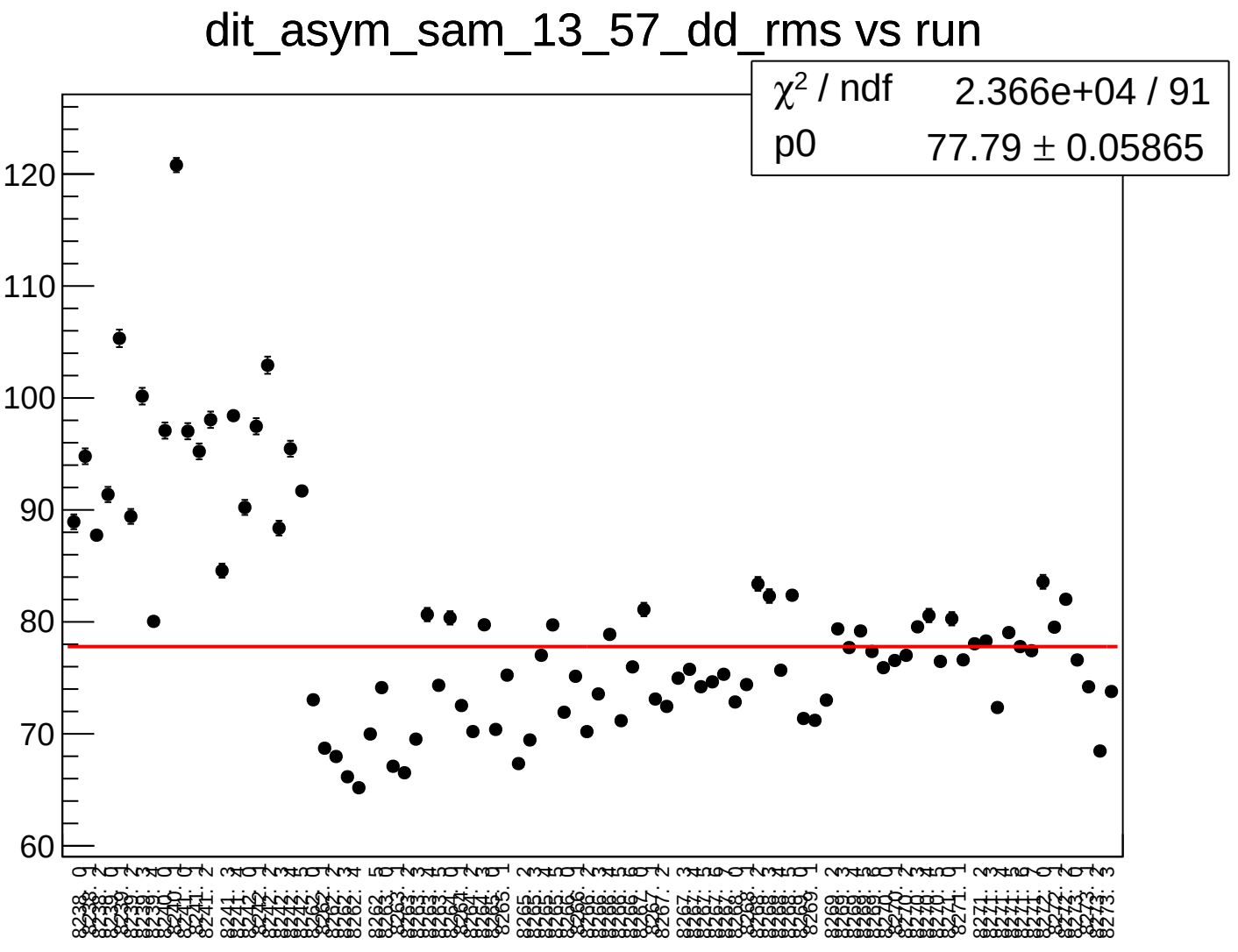

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 61.26 / 91
p0 −2216 ± 710.6
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −346.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

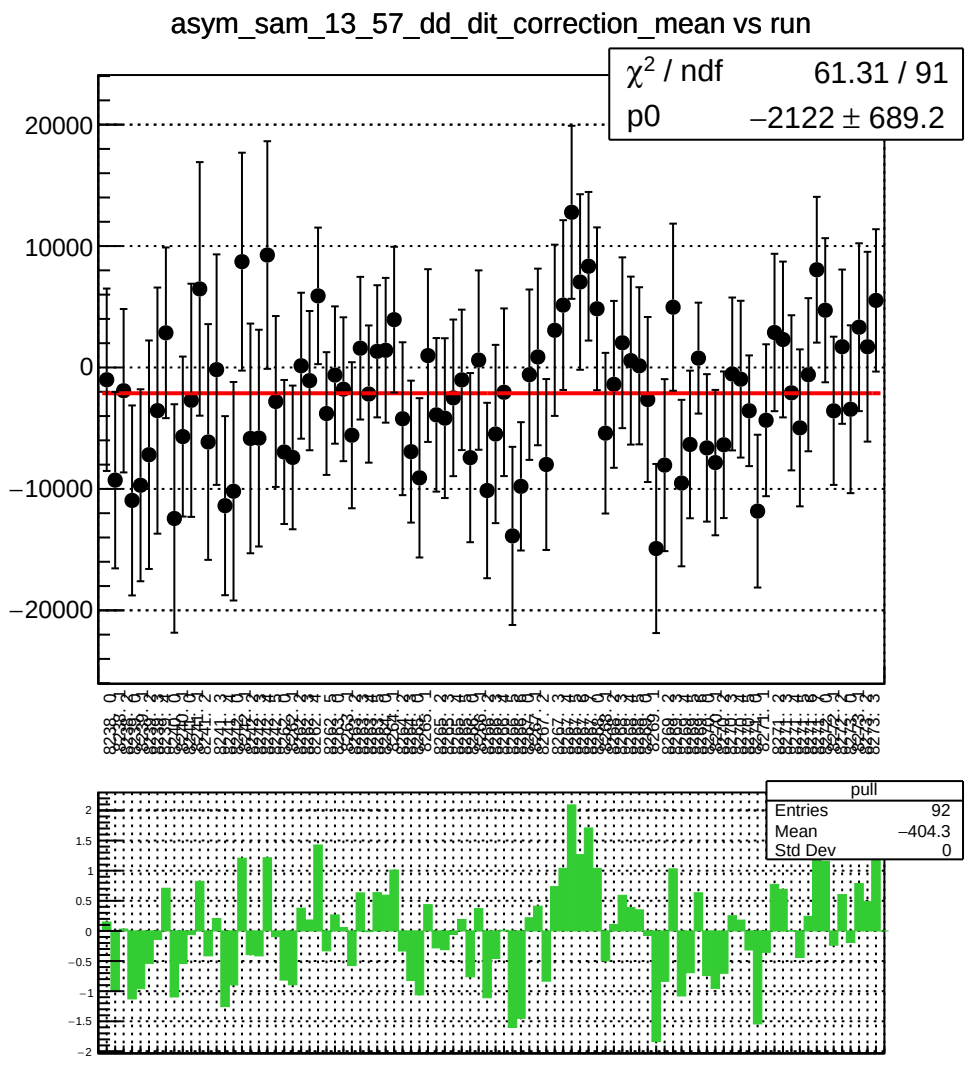

pull1D
Entries 92
Mean −0.01032
Std Dev 0.8159
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

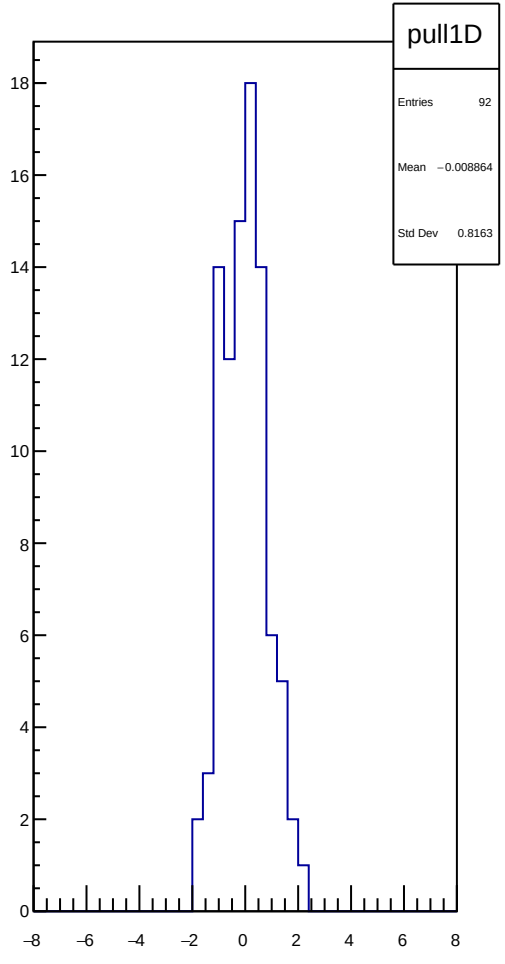

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.175e+04 / 91
p0 663 ± 0.5025
1000
900
800
700
600
500

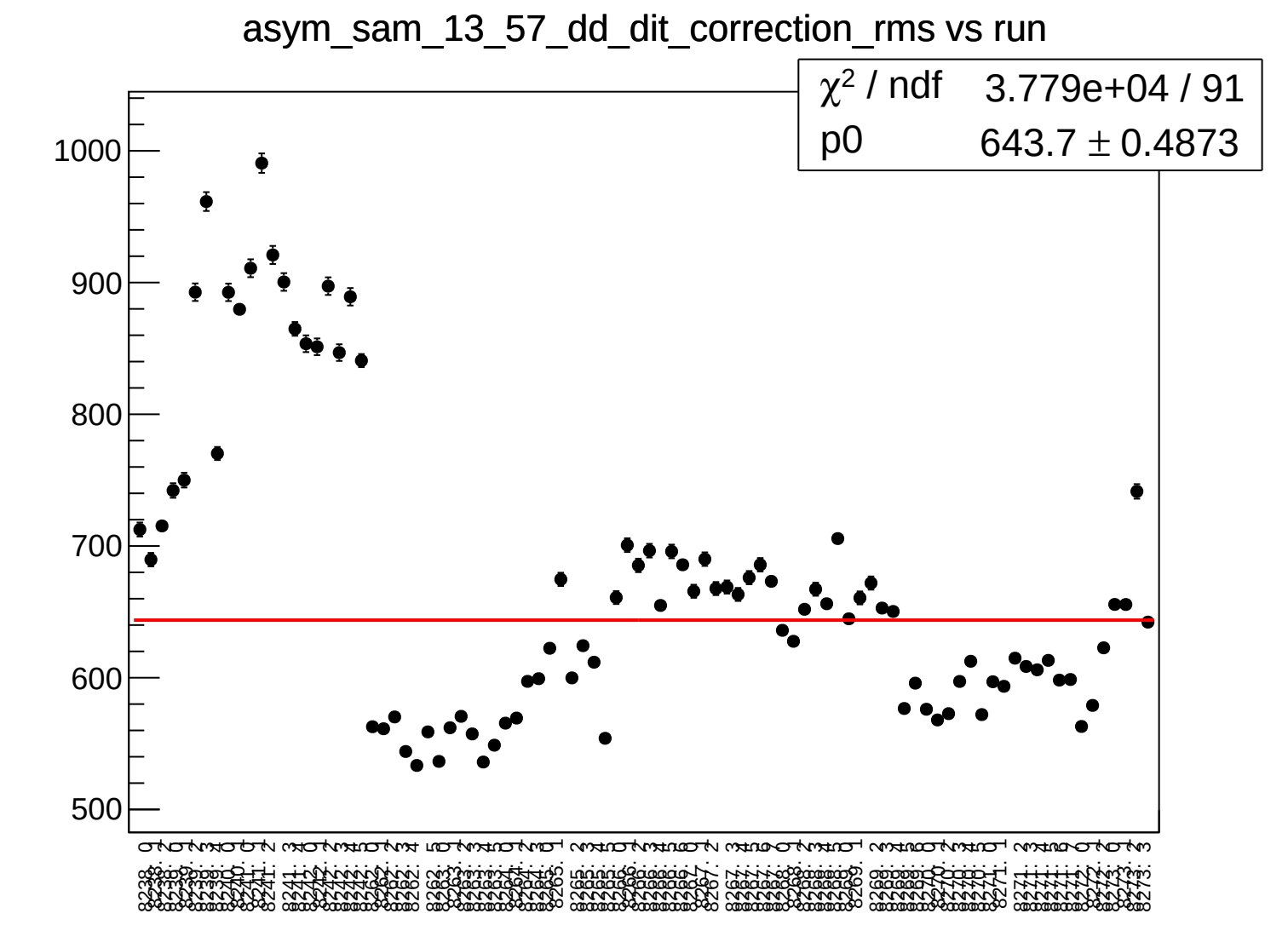

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 81.09 / 91
p0 146.1 ± 82.95
pull
Entries 92
Mean 41.82
Std Dev 215.1

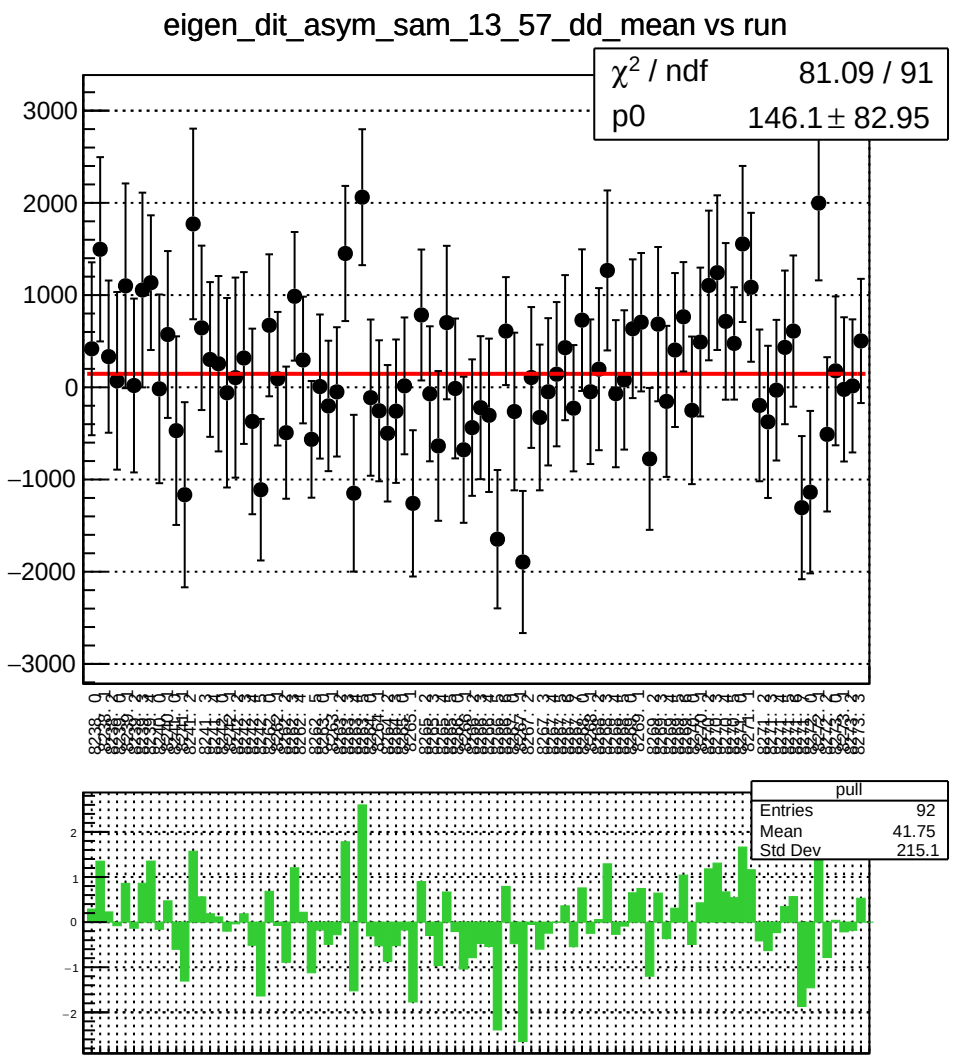

pull1D
Entries 92
Mean 0.002767
Std Dev 0.9388

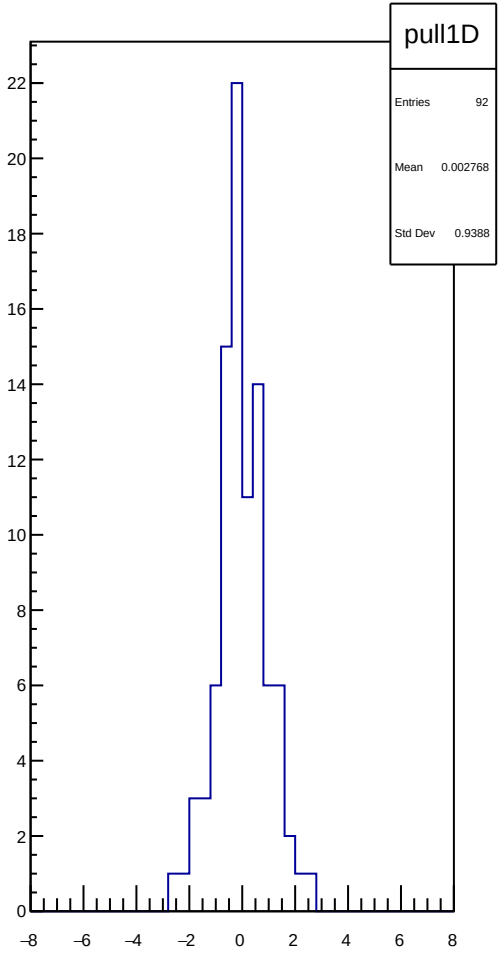

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2.366e+04 / 91
p0 77.79 ± 0.05865
120
110
100
90
80
70
60

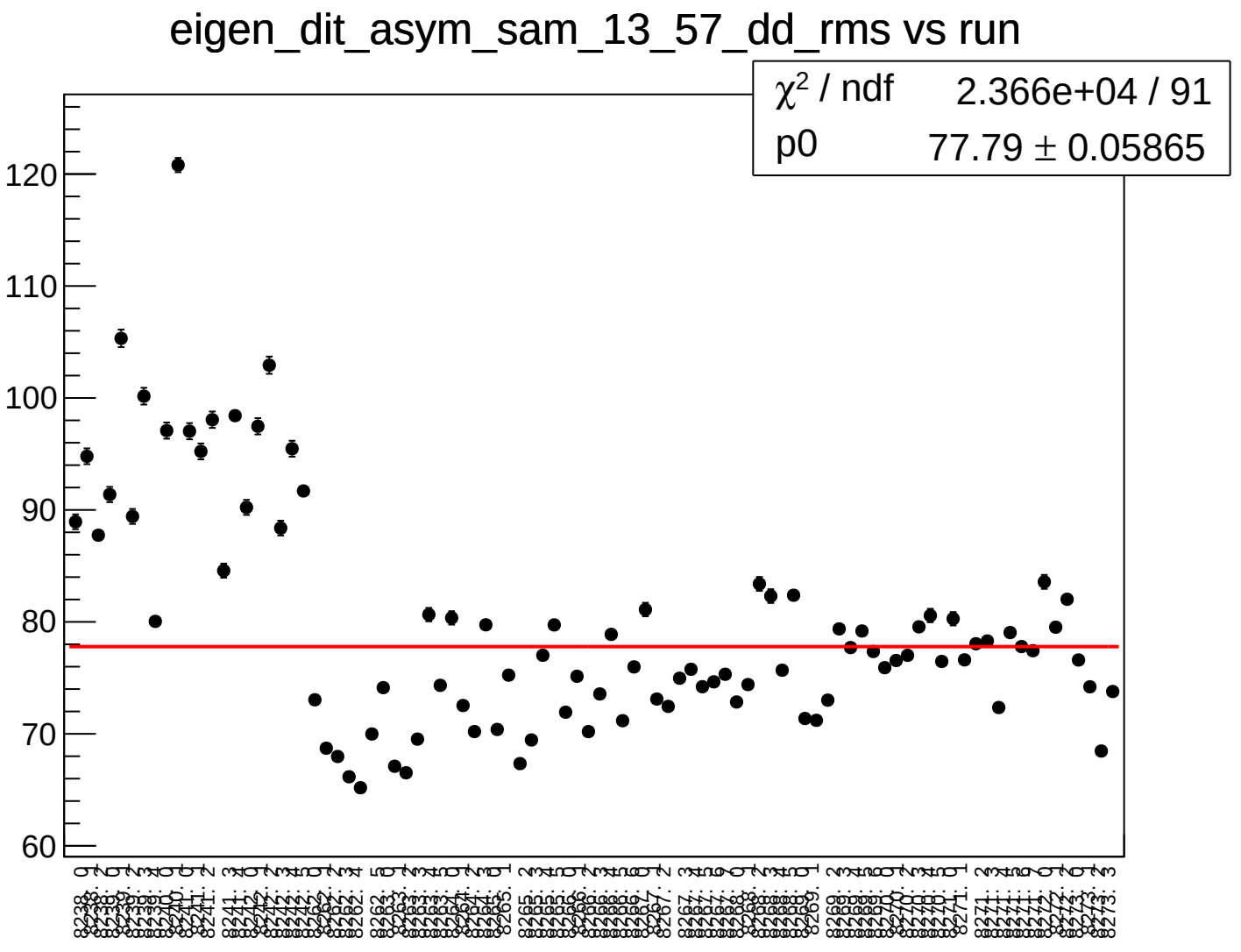

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 61.31 / 91
p0 −2122 ± 689.2
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −404.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

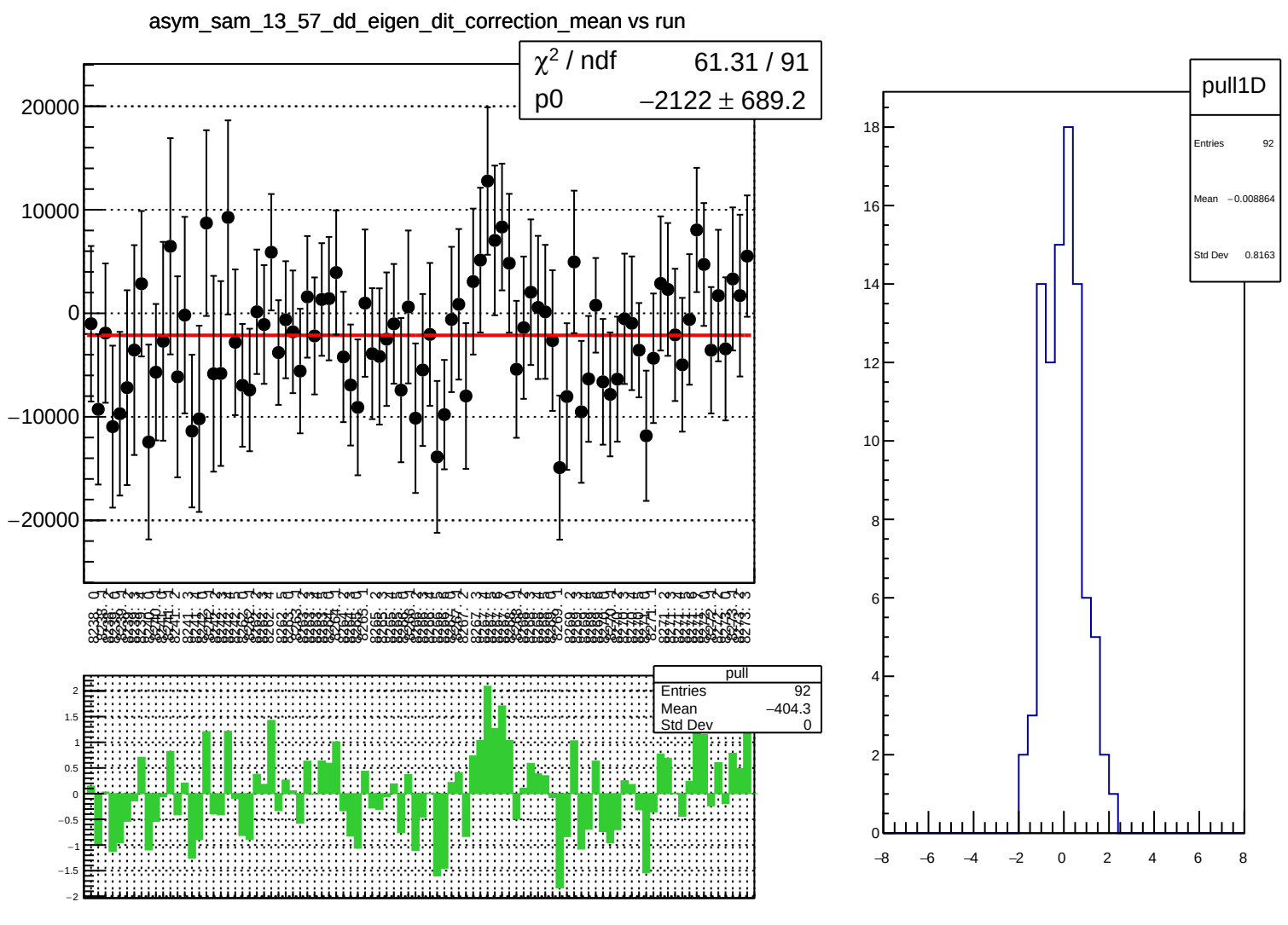

pull1D
Entries 92
Mean −0.008864
Std Dev 0.8163
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

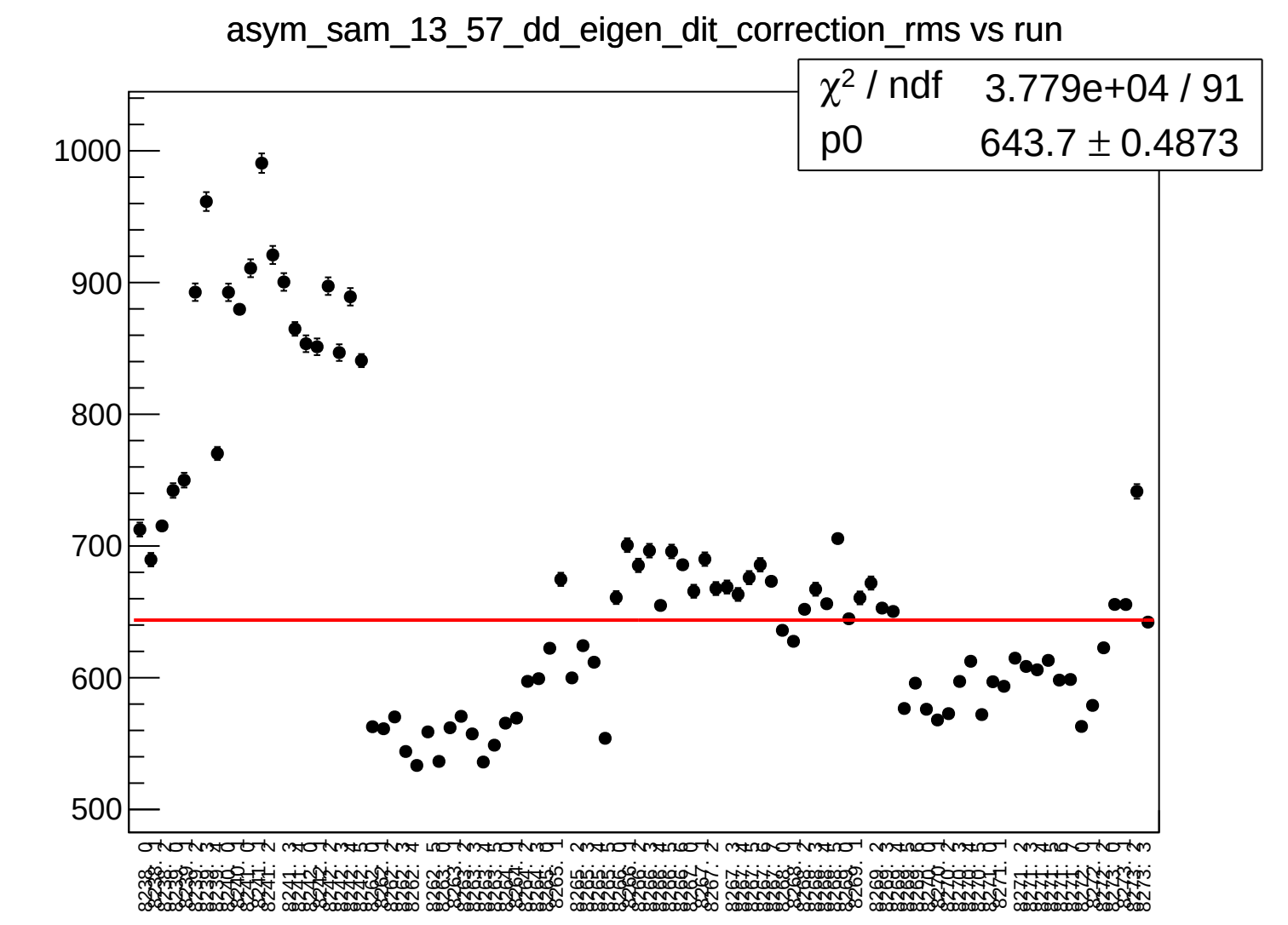

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 3.779e+04 / 91
p0 643.7 ± 0.4873
1000
900
800
700
600
500

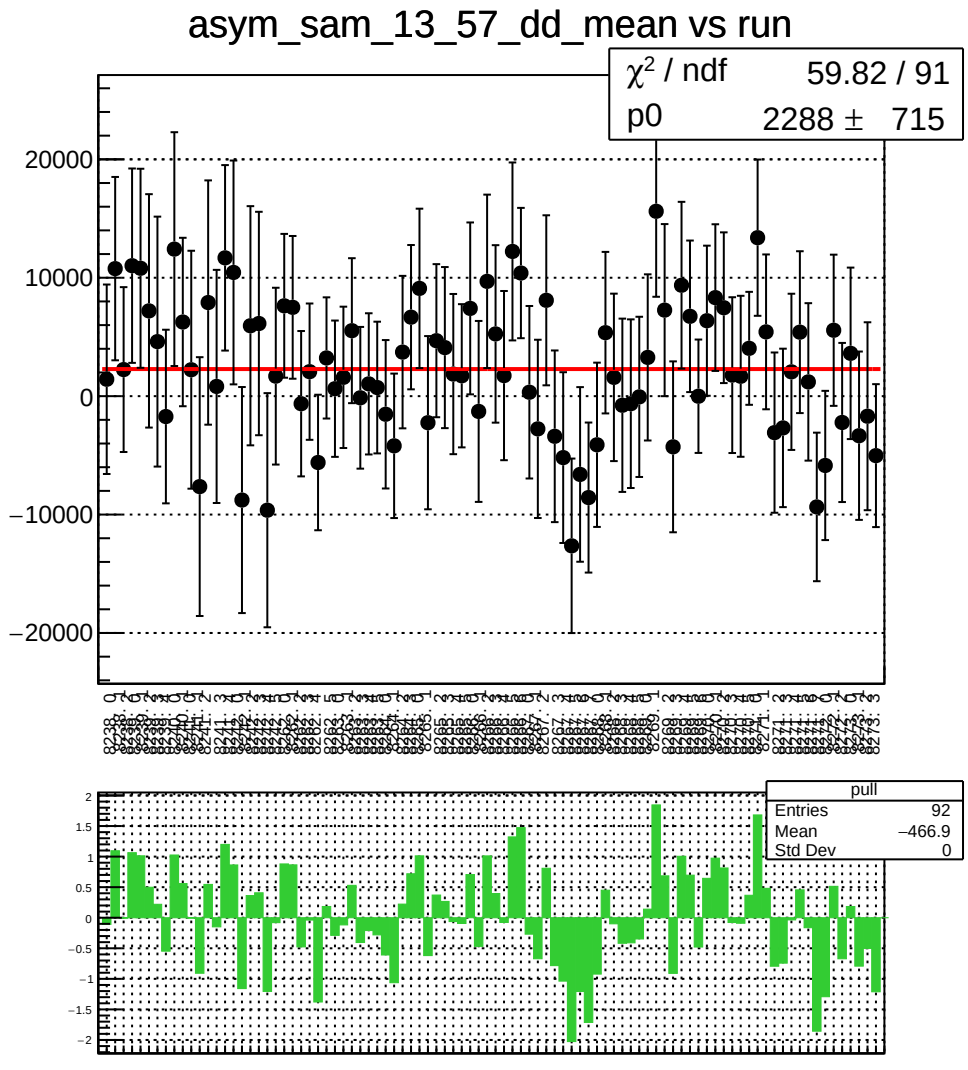

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 81.09 / 91
p0 146.1 ± 82.95
pull
Entries 92
Mean 41.75
Std Dev 215.1

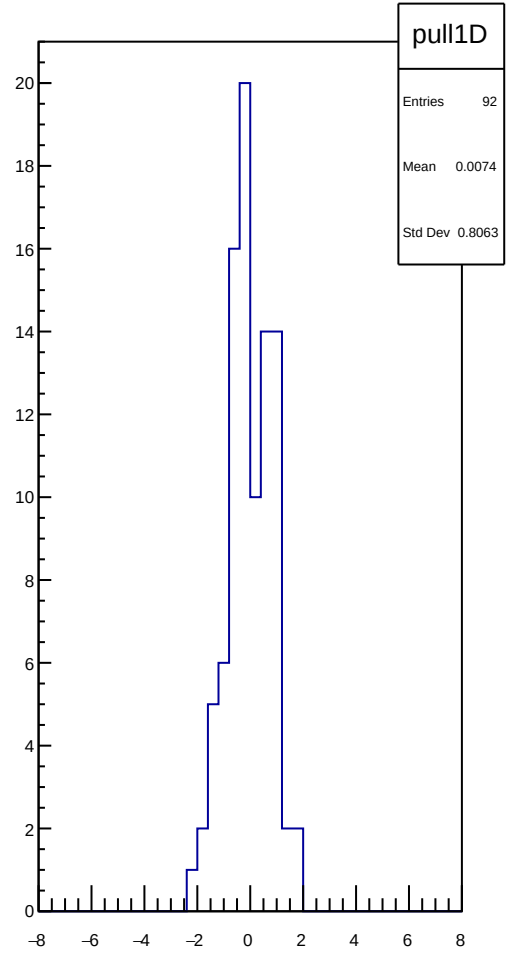

pull1D
Entries 92
Mean 0.002768
Std Dev 0.9388

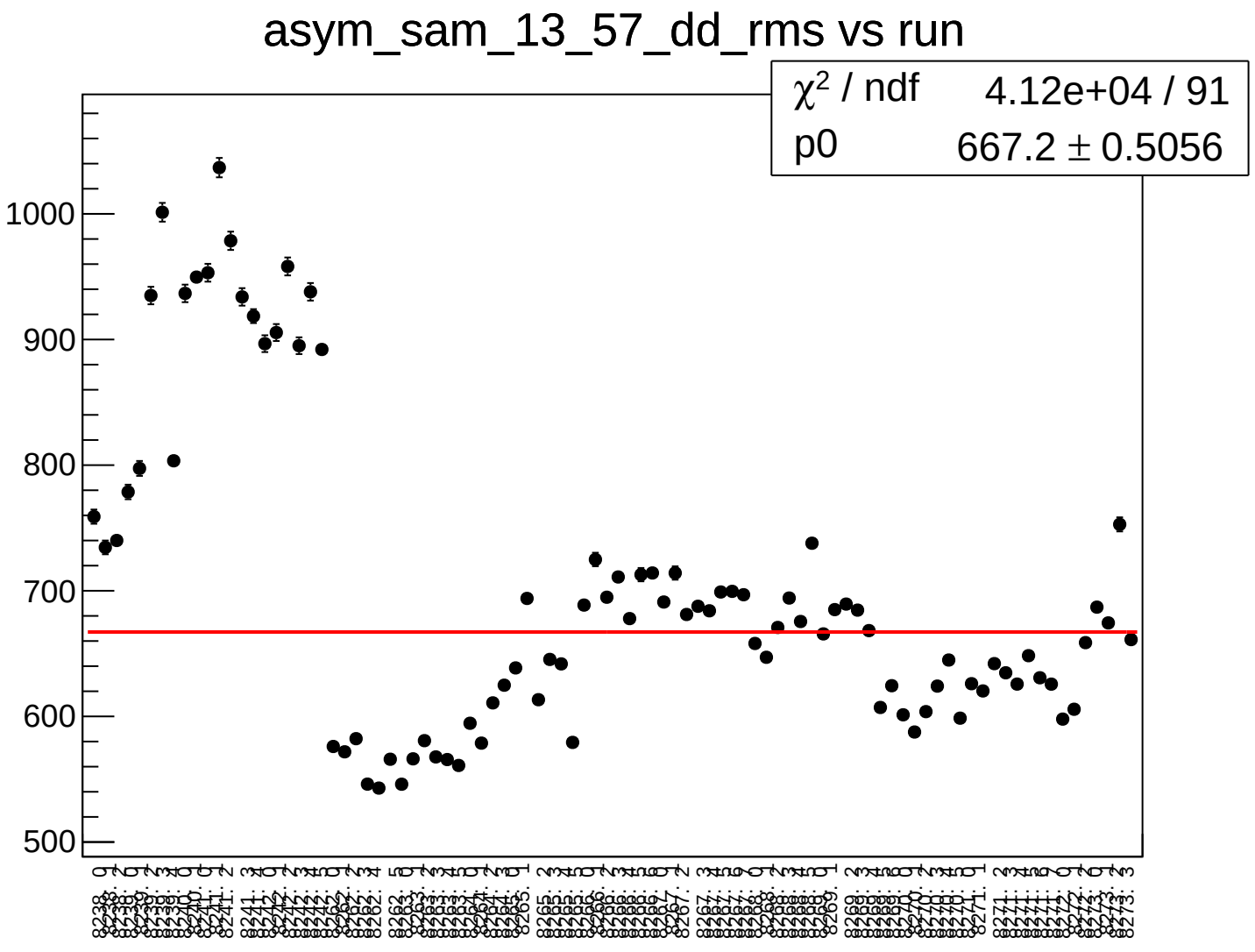

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2.366e+04 / 91
p0 77.79 ± 0.05865
120
110
100
90
80
70
60

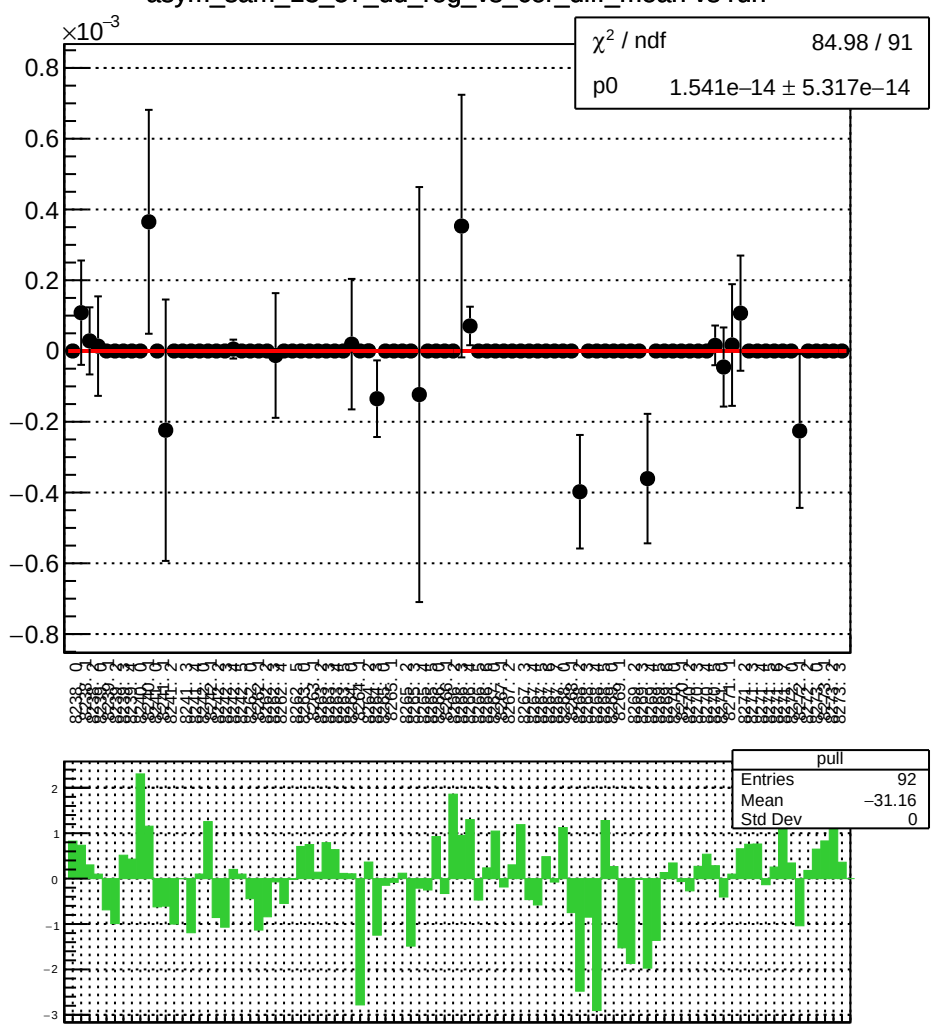

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 61.31 / 91
p0 −2122 ± 689.2
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −404.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.008864
Std Dev 0.8163
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

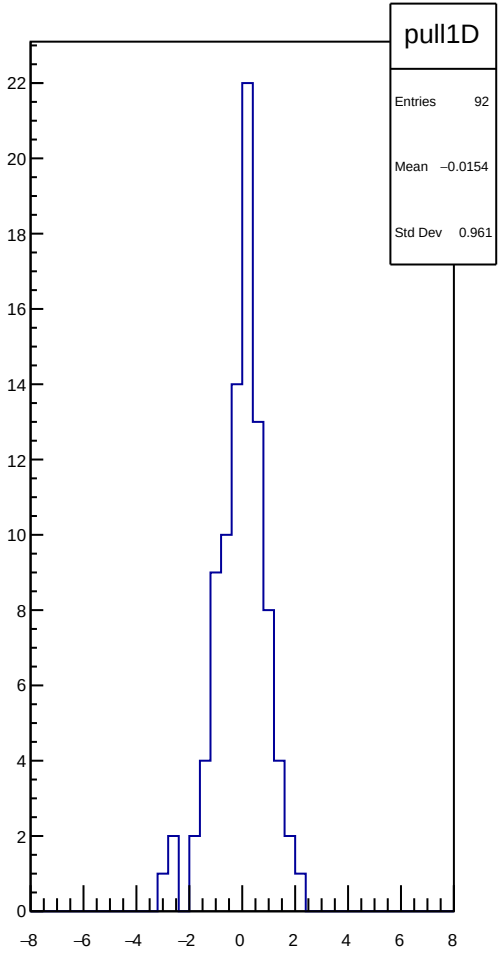

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.779e+04 / 91
p0 643.7 ± 0.4873
1000
900
800
700
600
500

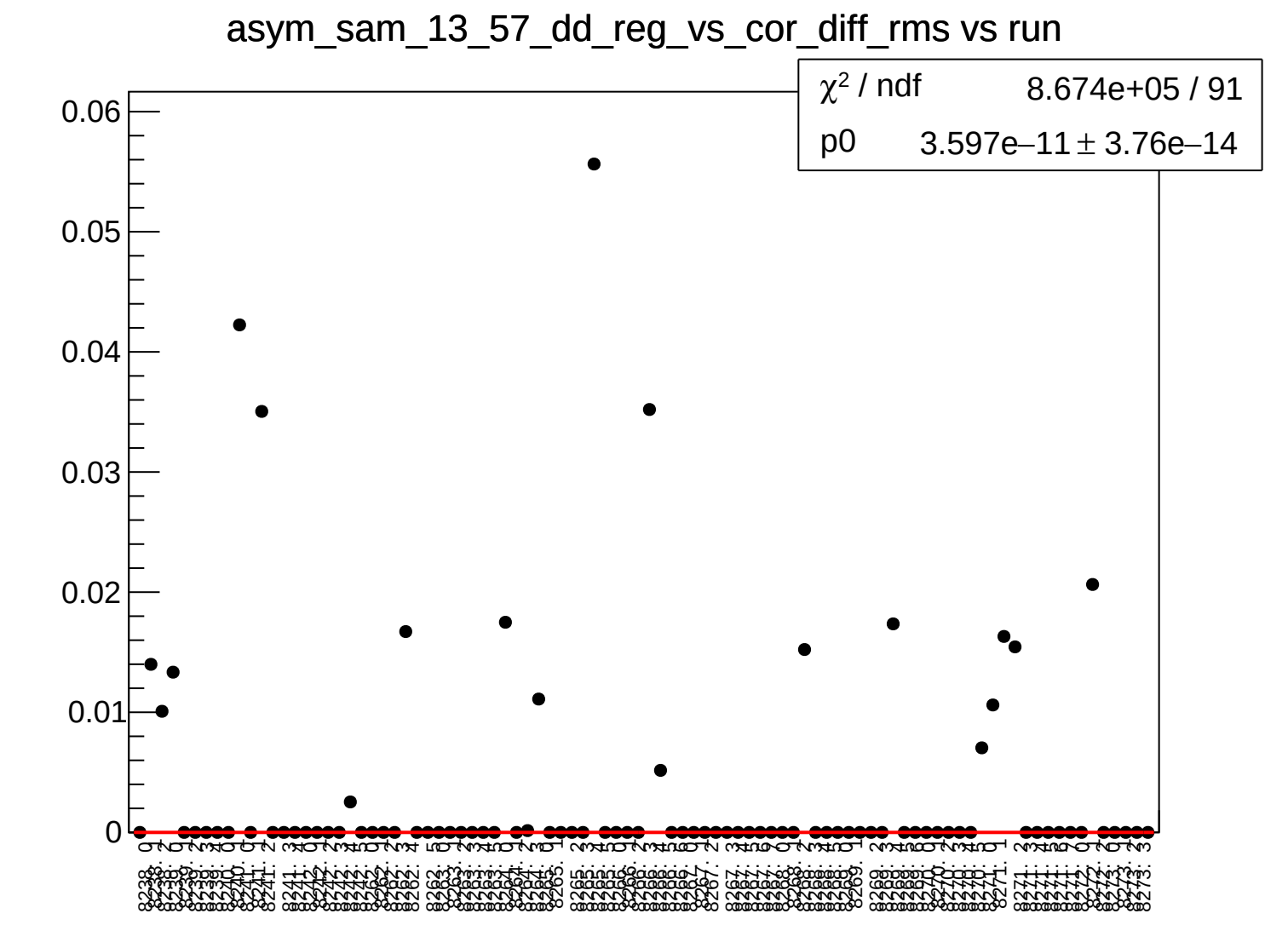

asym_sam_13_57_dd_mean vs run
χ² / ndf 59.82 / 91
p0 2288 ± 715
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −466.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

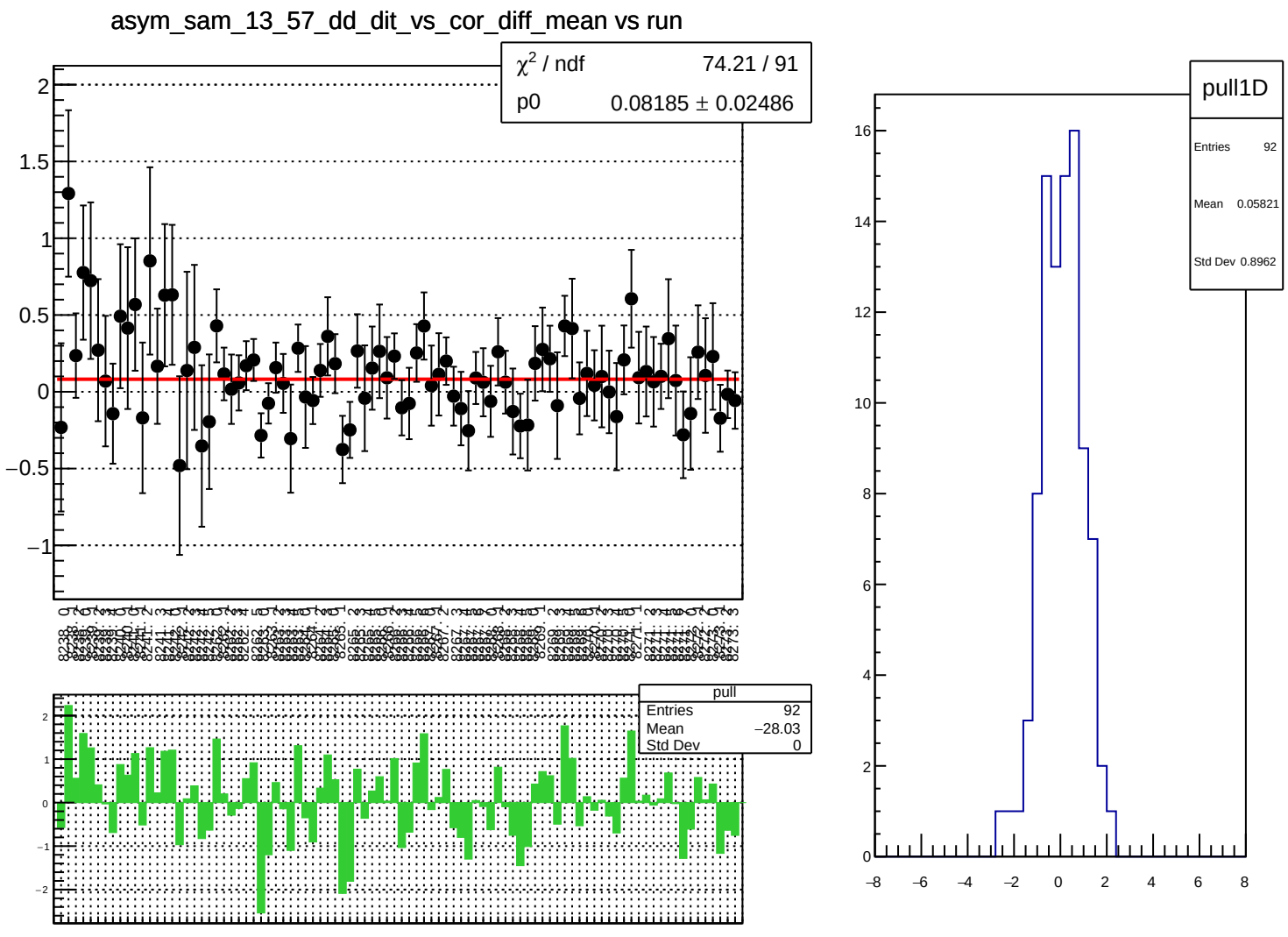

pull1D
Entries 92
Mean 0.0074
Std Dev 0.8063
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

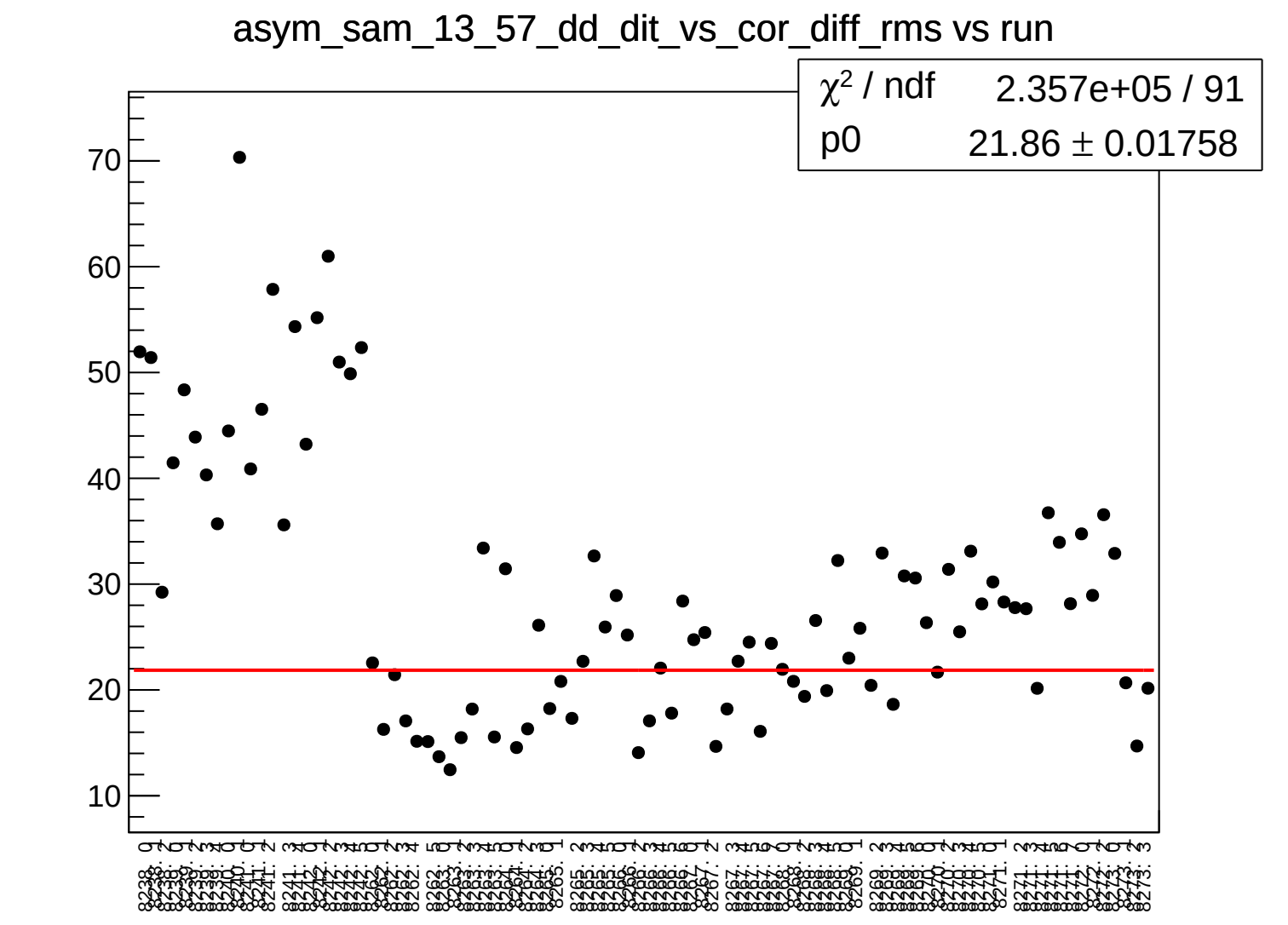

asym_sam_13_57_dd_rms vs run
χ² / ndf 4.12e+04 / 91
p0 667.2 ± 0.5056
1000
900
800
700
600
500

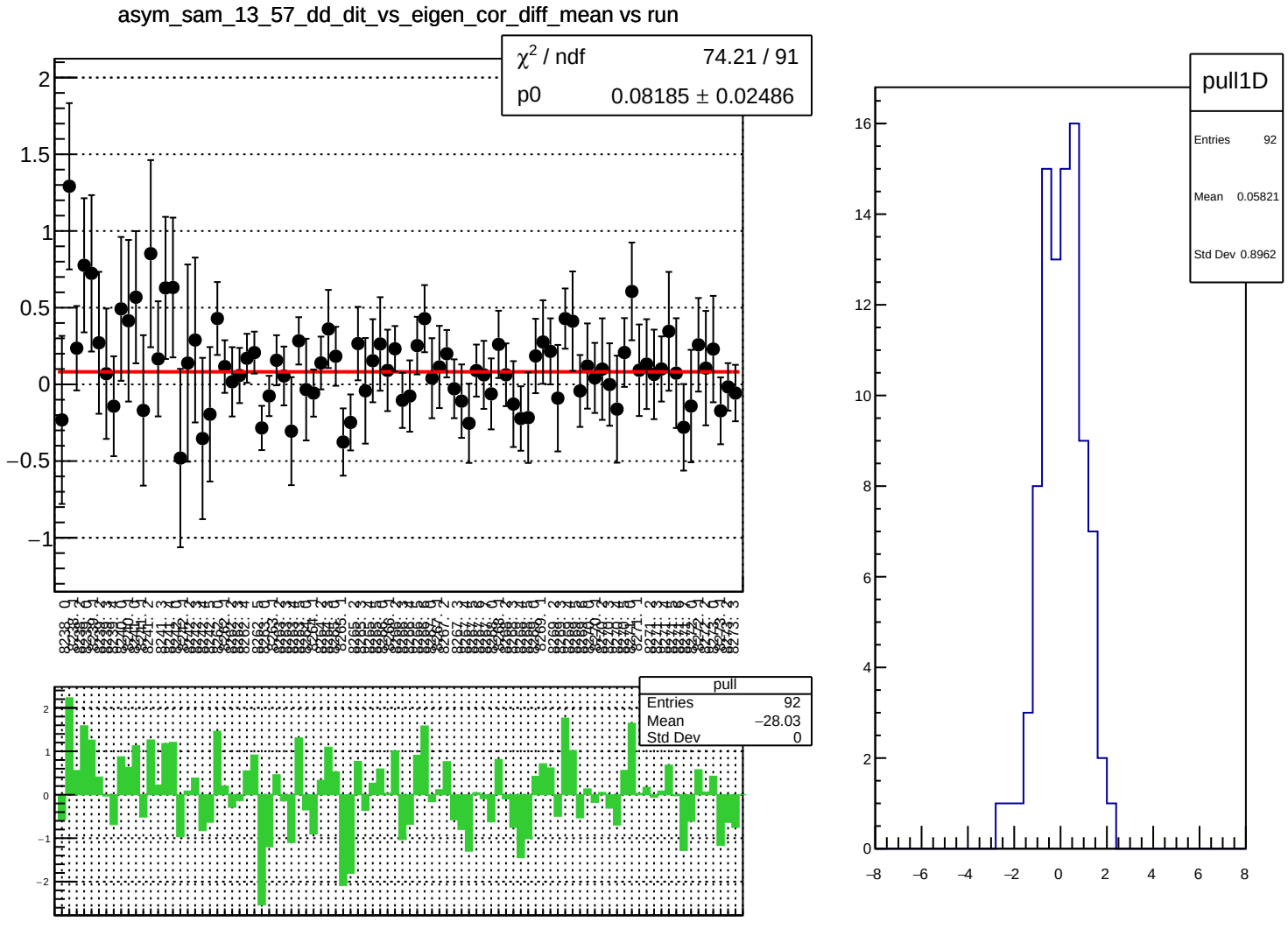

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 84.98 / 91
p0 1.541e−14 ± 5.317e−14
pull
Entries 92
Mean −31.16
Std Dev 0

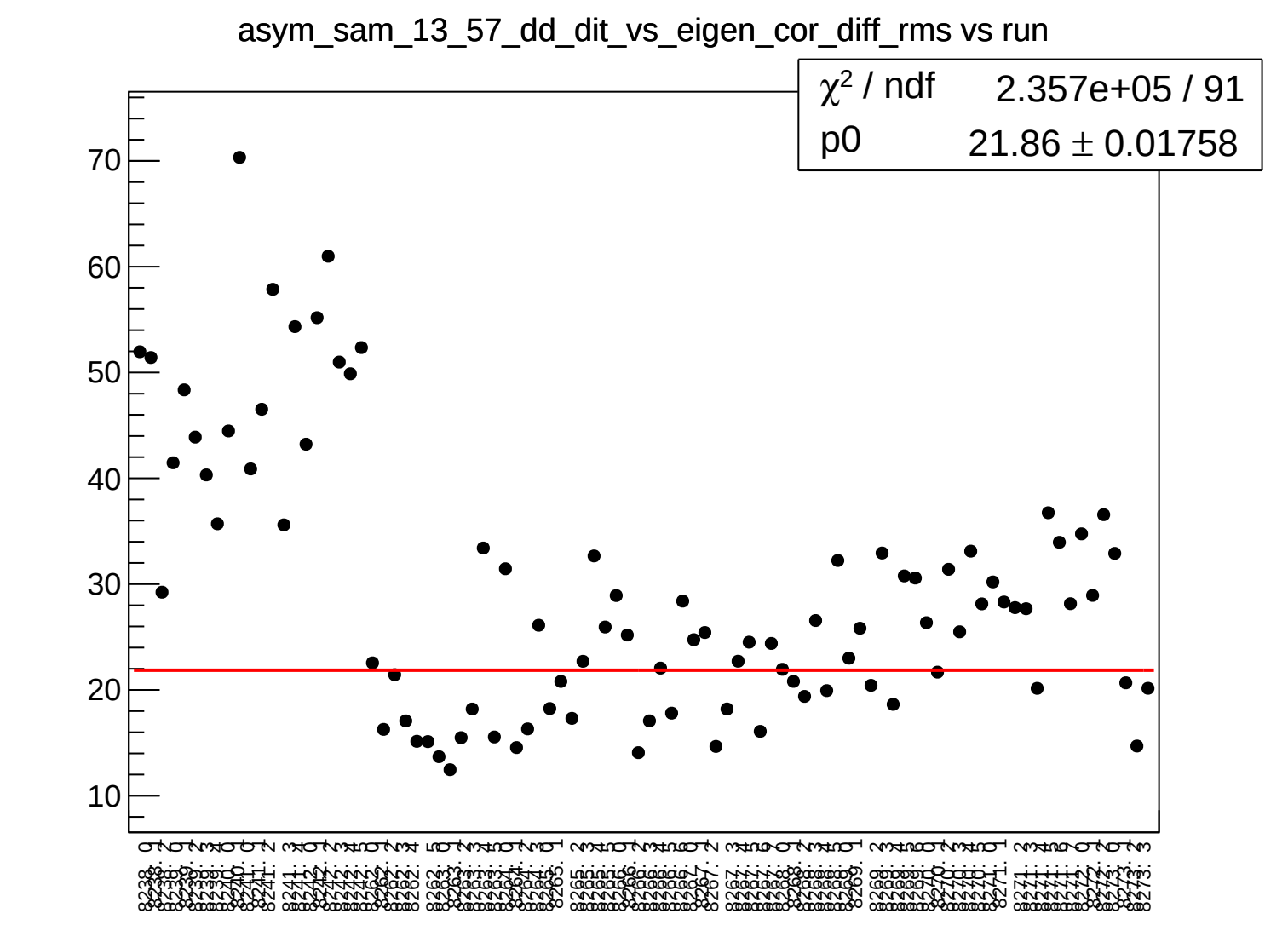

pull1D
Entries 92
Mean −0.0154
Std Dev 0.961

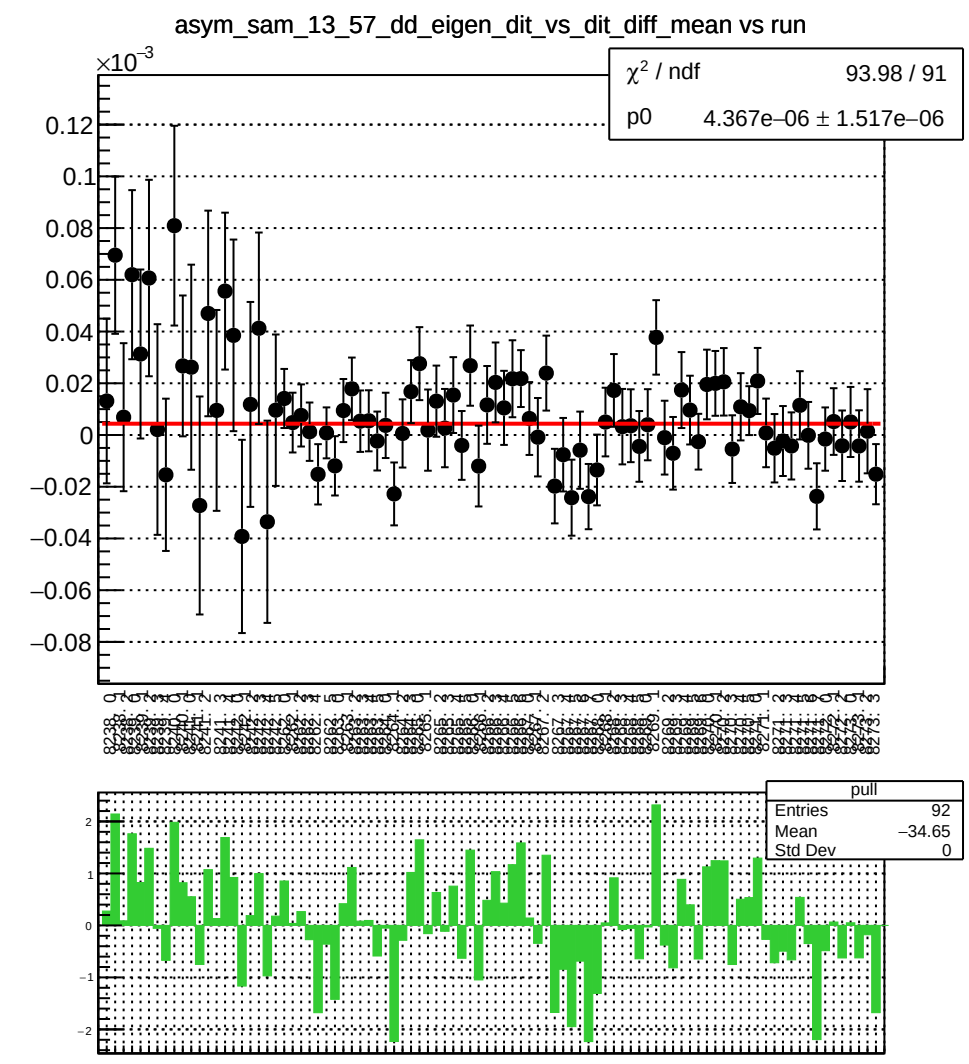

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.674e+05 / 91
p0 3.597e−11 ± 3.76e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

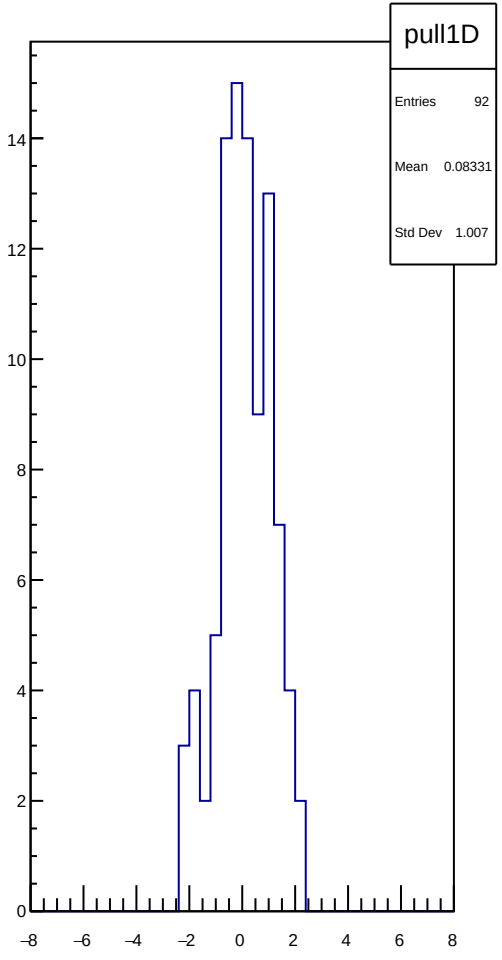

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.21 / 91
p0 0.08185 ± 0.02486
pull
Entries 92
Mean −28.03
Std Dev 0
pull1D
Entries 92
Mean 0.05821
Std Dev 0.8962

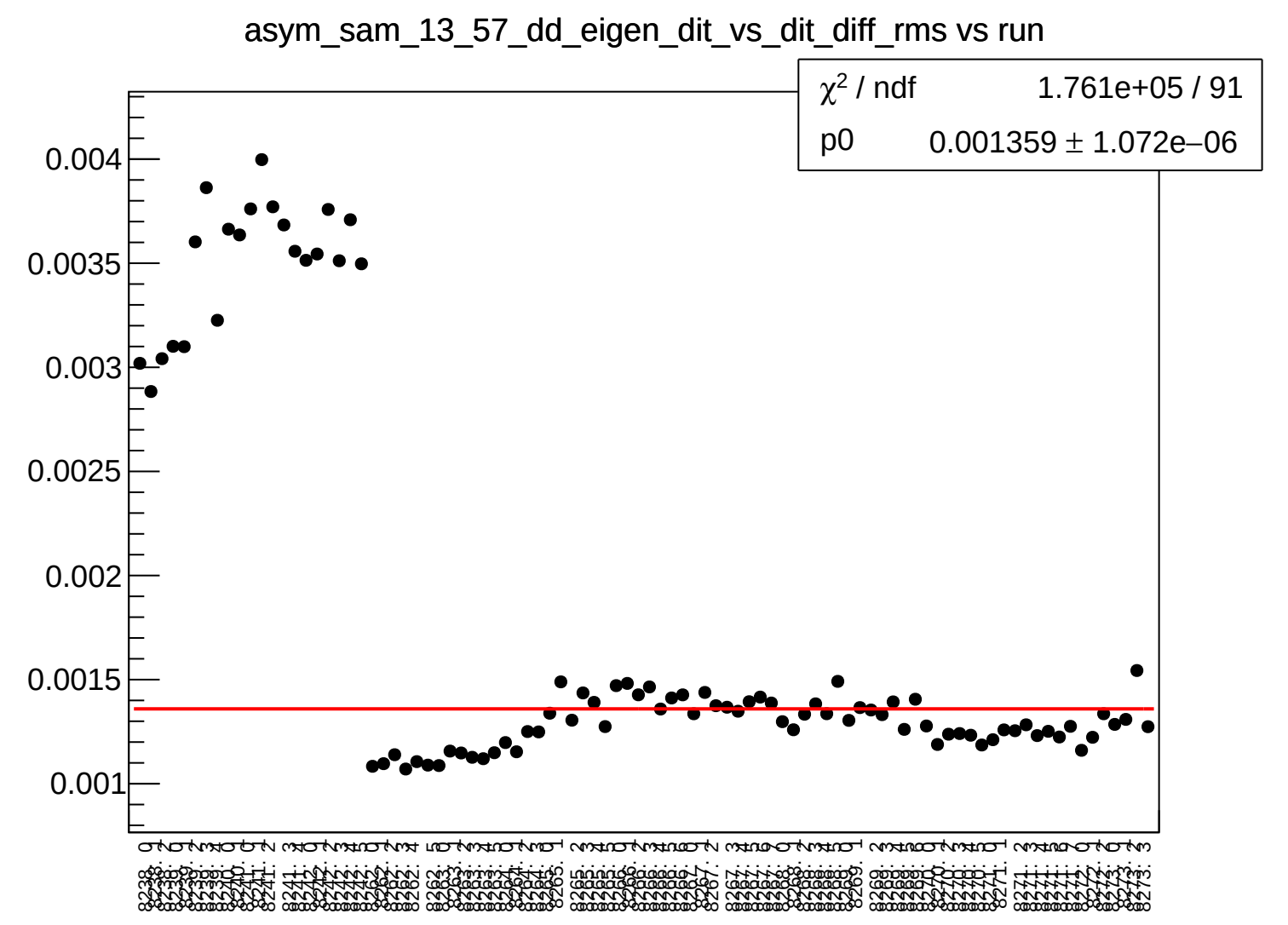

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.357e+05 / 91
p0 21.86 ± 0.01758
70
60
50
40
30
20
10

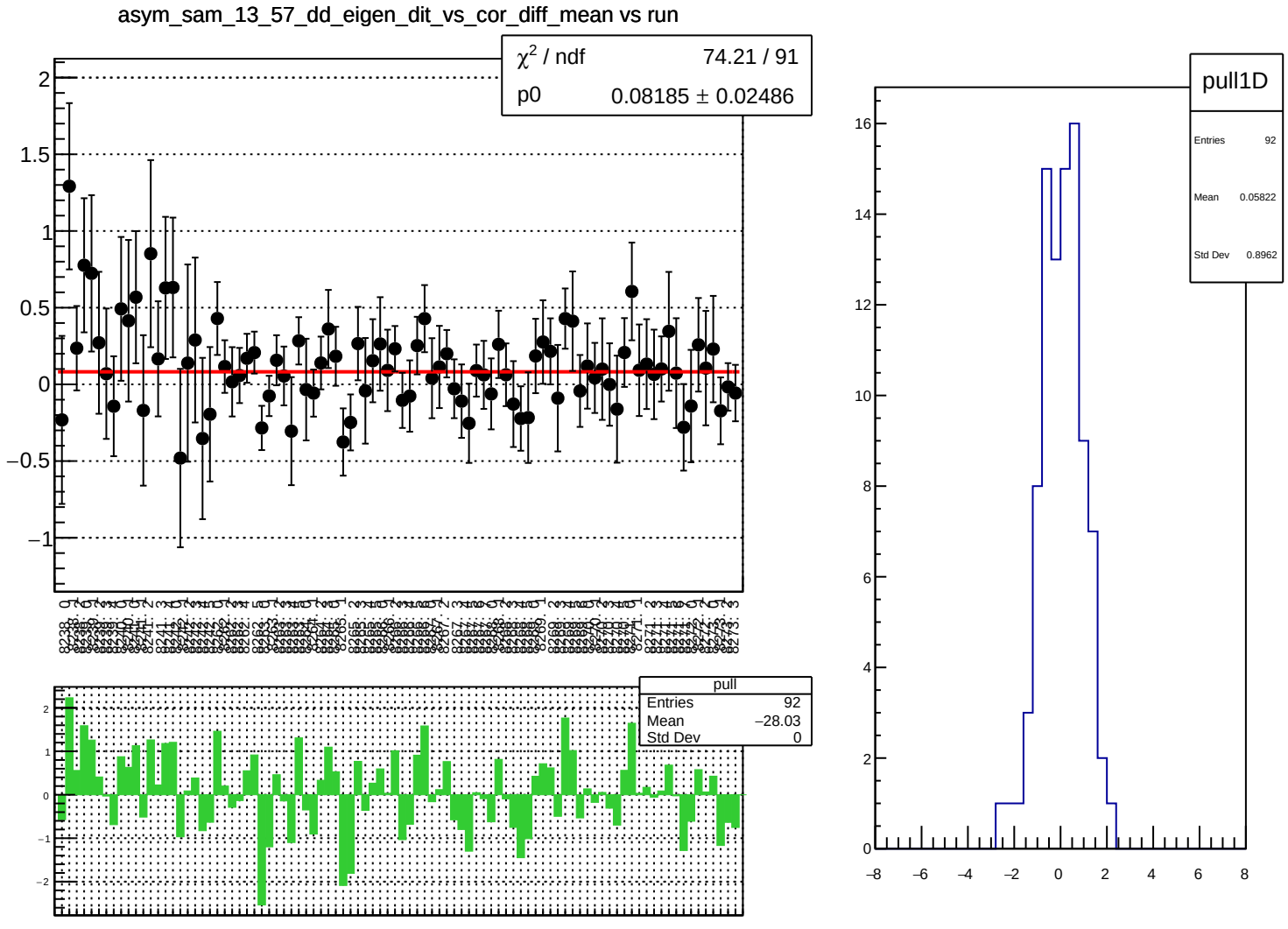

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.21 / 91
p0 0.08185 ± 0.02486
pull
Entries 92
Mean −28.03
Std Dev 0
pull1D
Entries 92
Mean 0.05821
Std Dev 0.8962

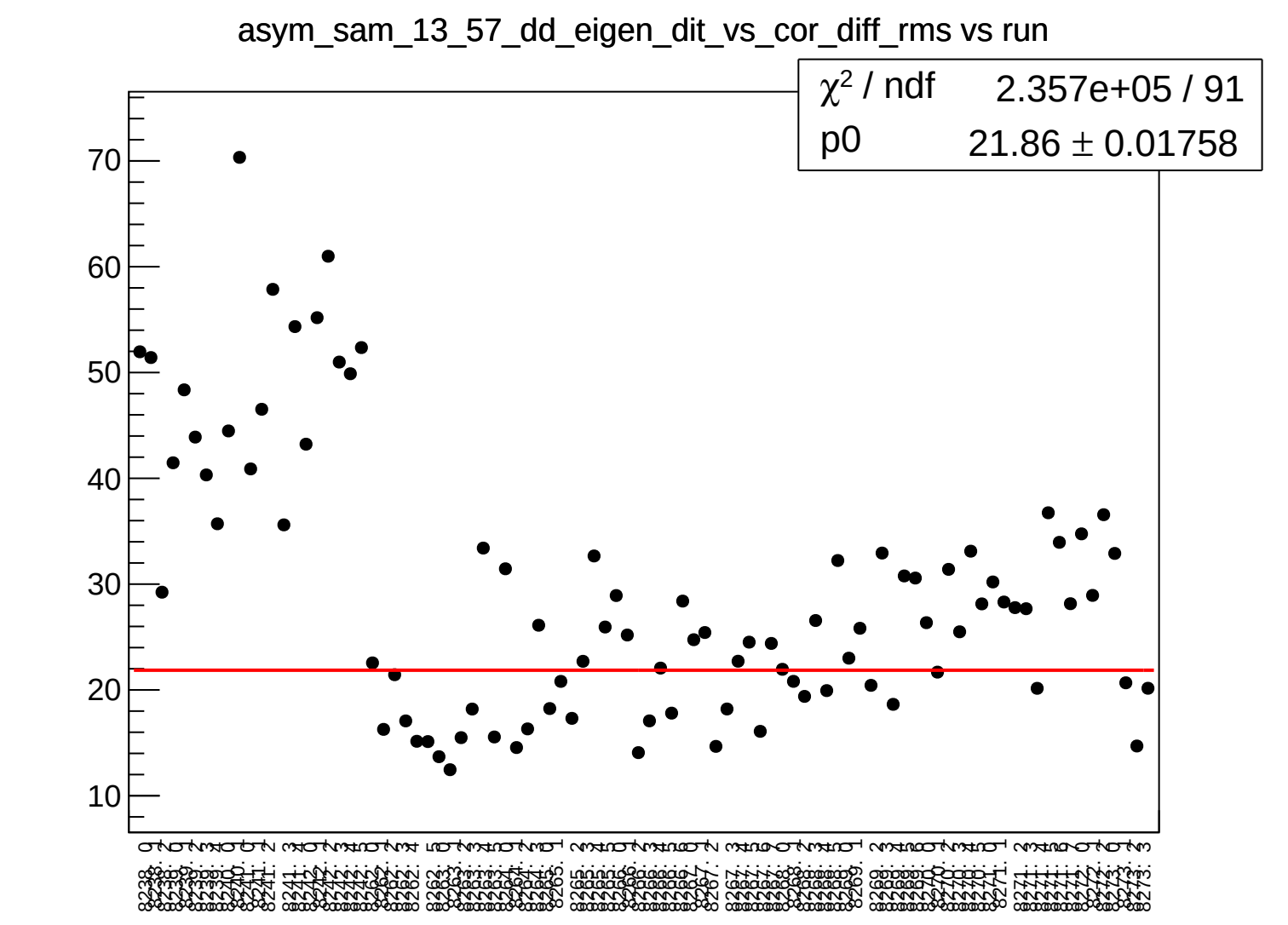

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 2.357e+05 / 91
p0 21.86 ± 0.01758
70
60
50
40
30
20
10


asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.98 / 91
p0 4.367e−06 ± 1.517e−06
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 92
Mean −34.65
Std Dev 0
2
1
0
−1
−2

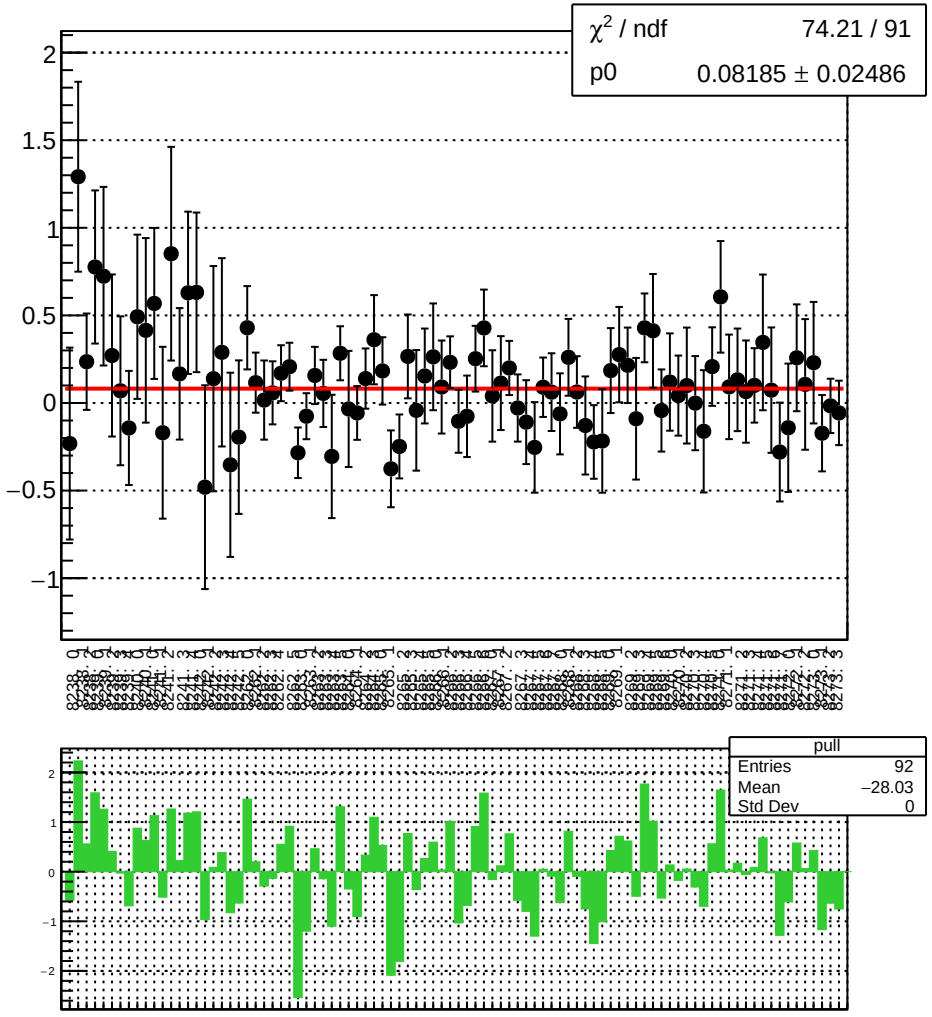

pull1D
Entries 92
Mean 0.08331
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

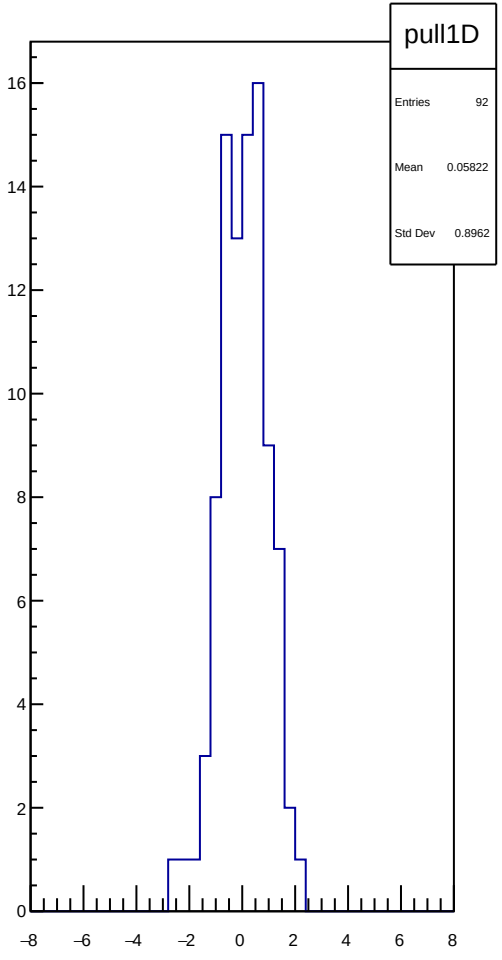

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.761e+05 / 91
p0 0.001359 ± 1.072e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

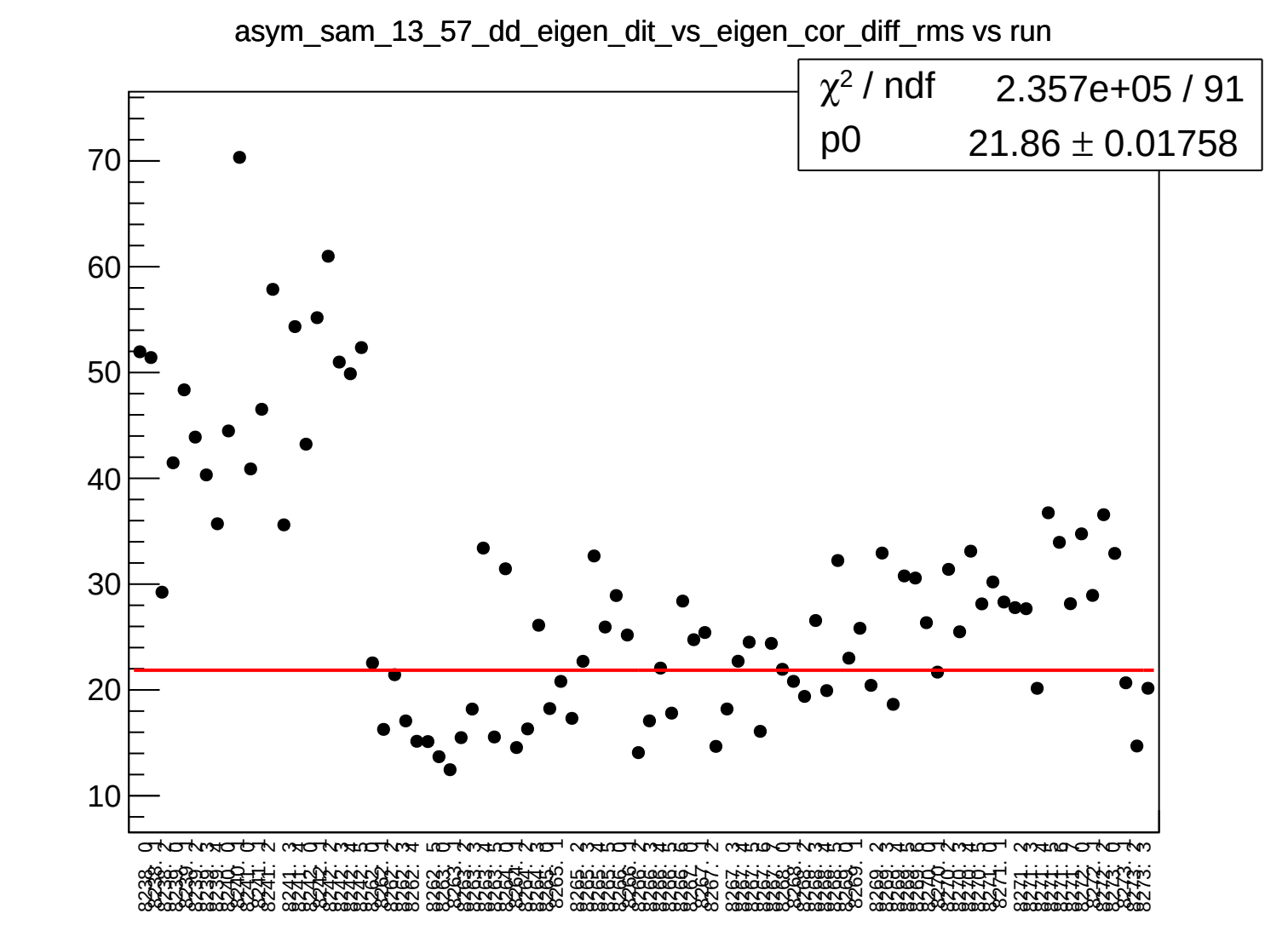

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.21 / 91
p0 0.08185 ± 0.02486
pull
Entries 92
Mean −28.03
Std Dev 0
pull1D
Entries 92
Mean 0.05822
Std Dev 0.8962

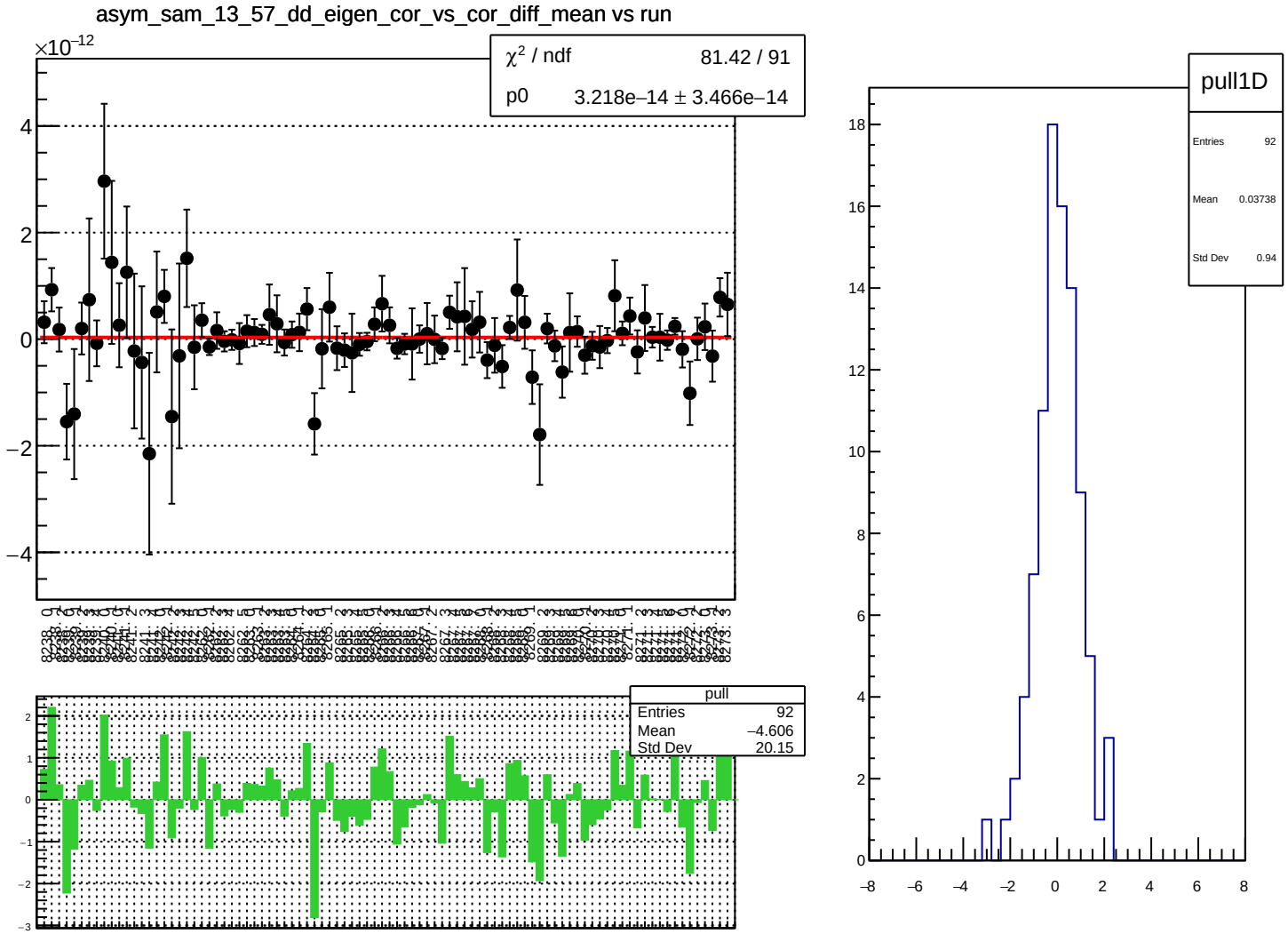

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 2.357e+05 / 91
p0 21.86 ± 0.01758
70
60
50
40
30
20
10

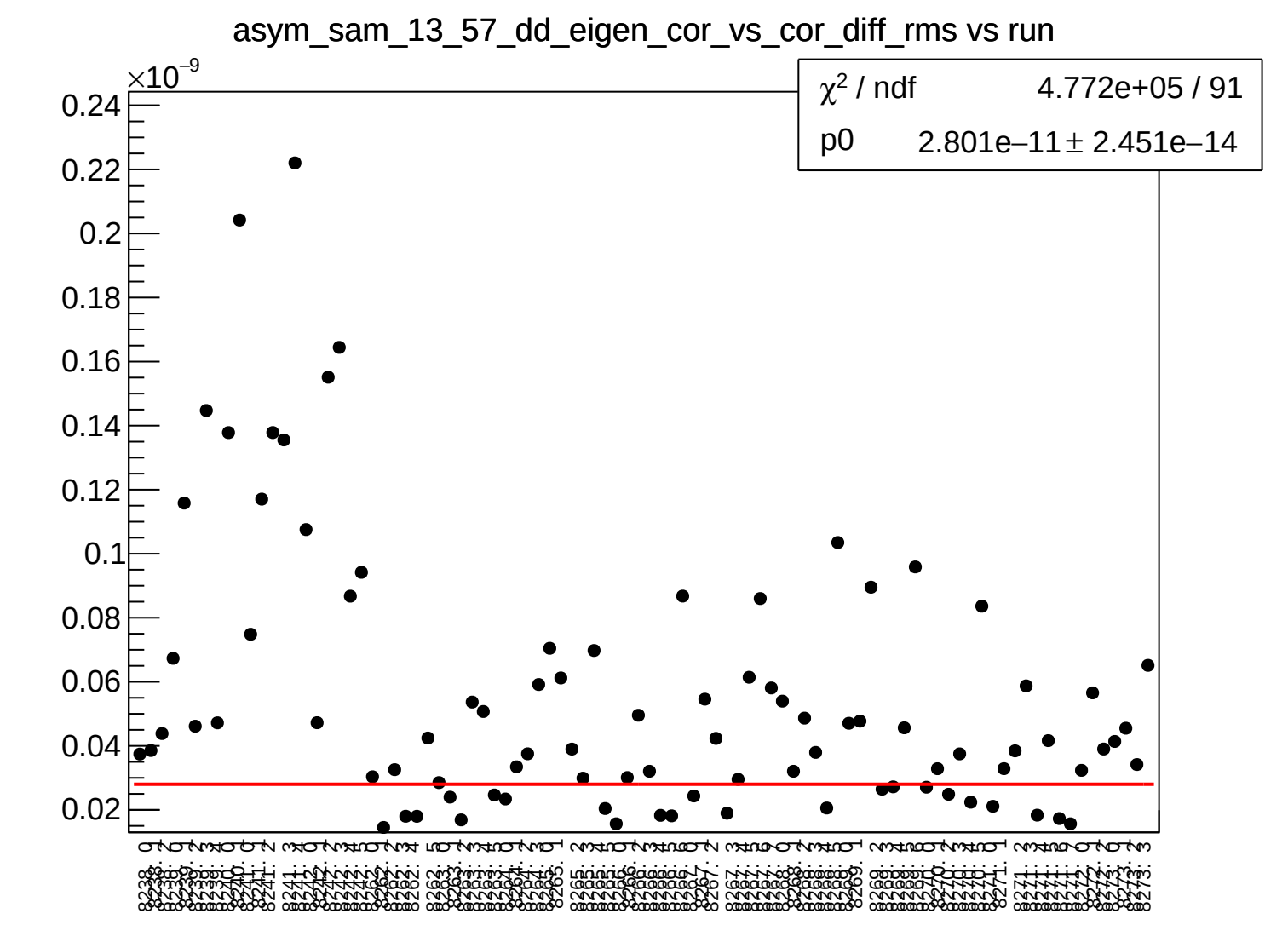
asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

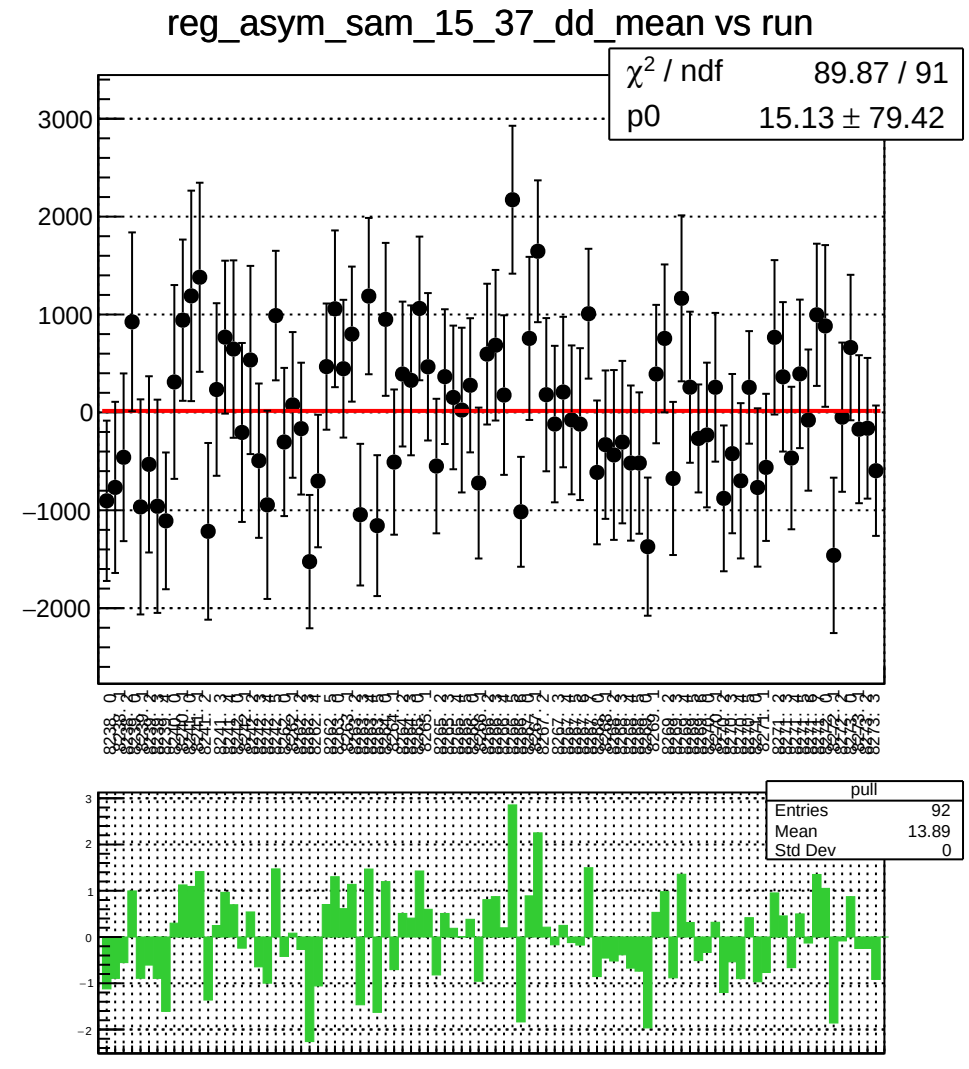


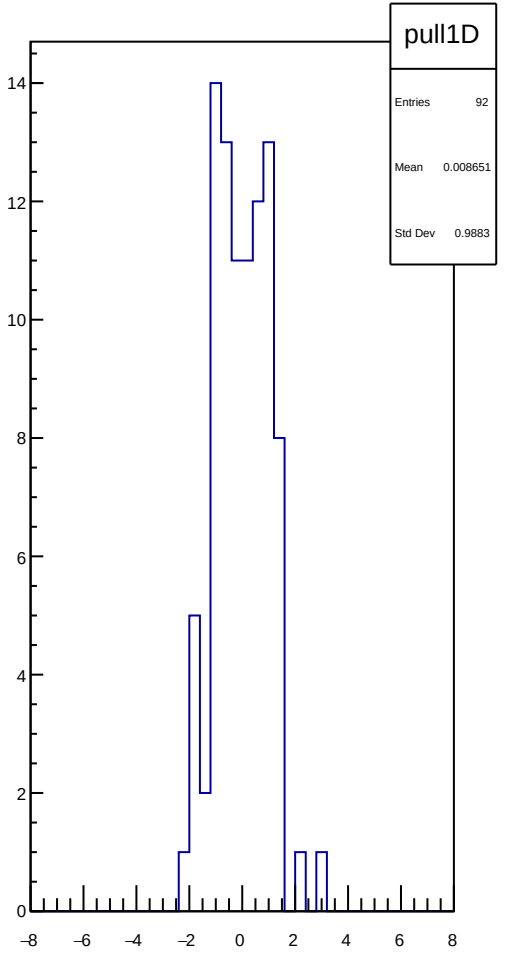



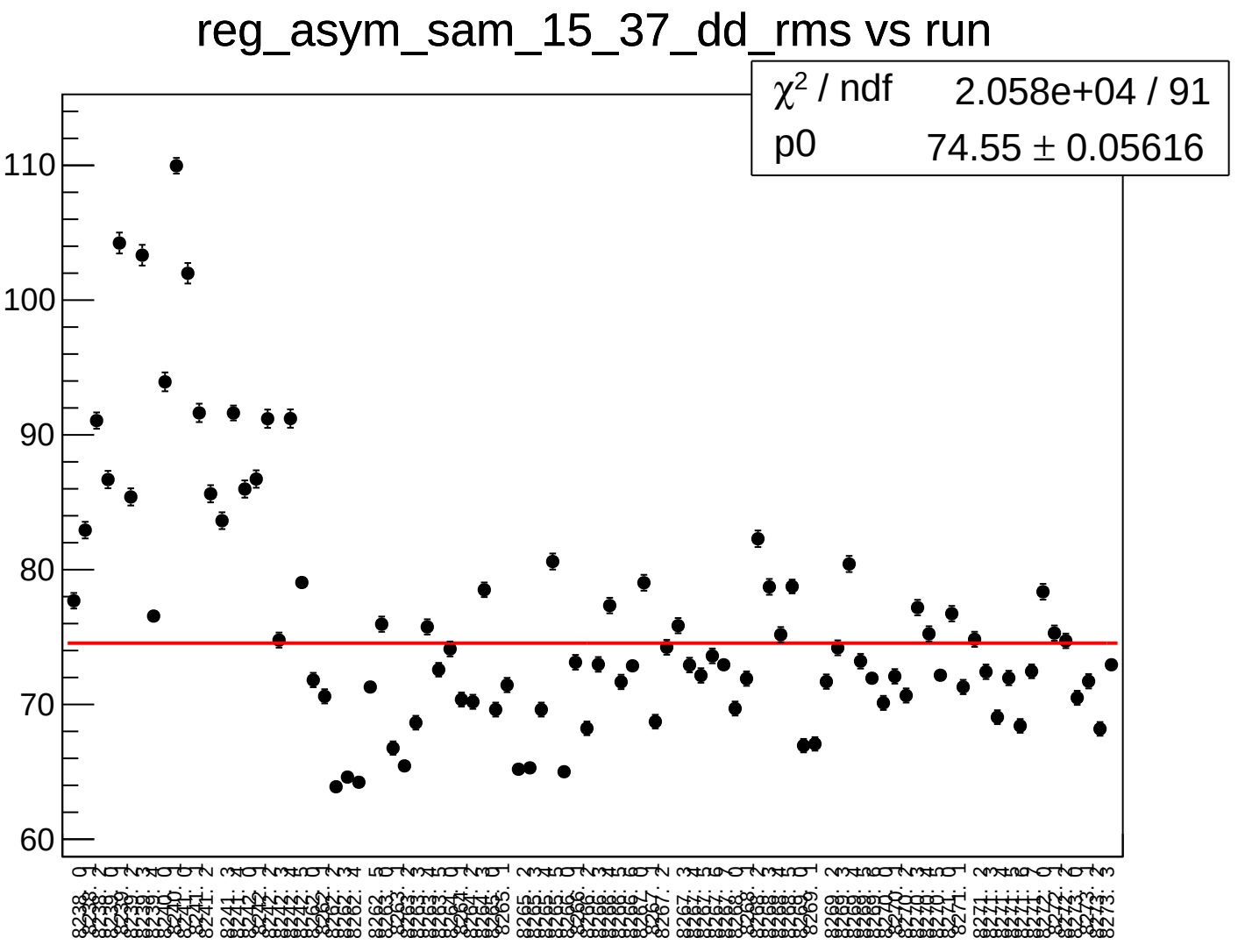

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.357e+05 / 91
p0 21.86 ± 0.01758
70
60
50
40
30
20
10

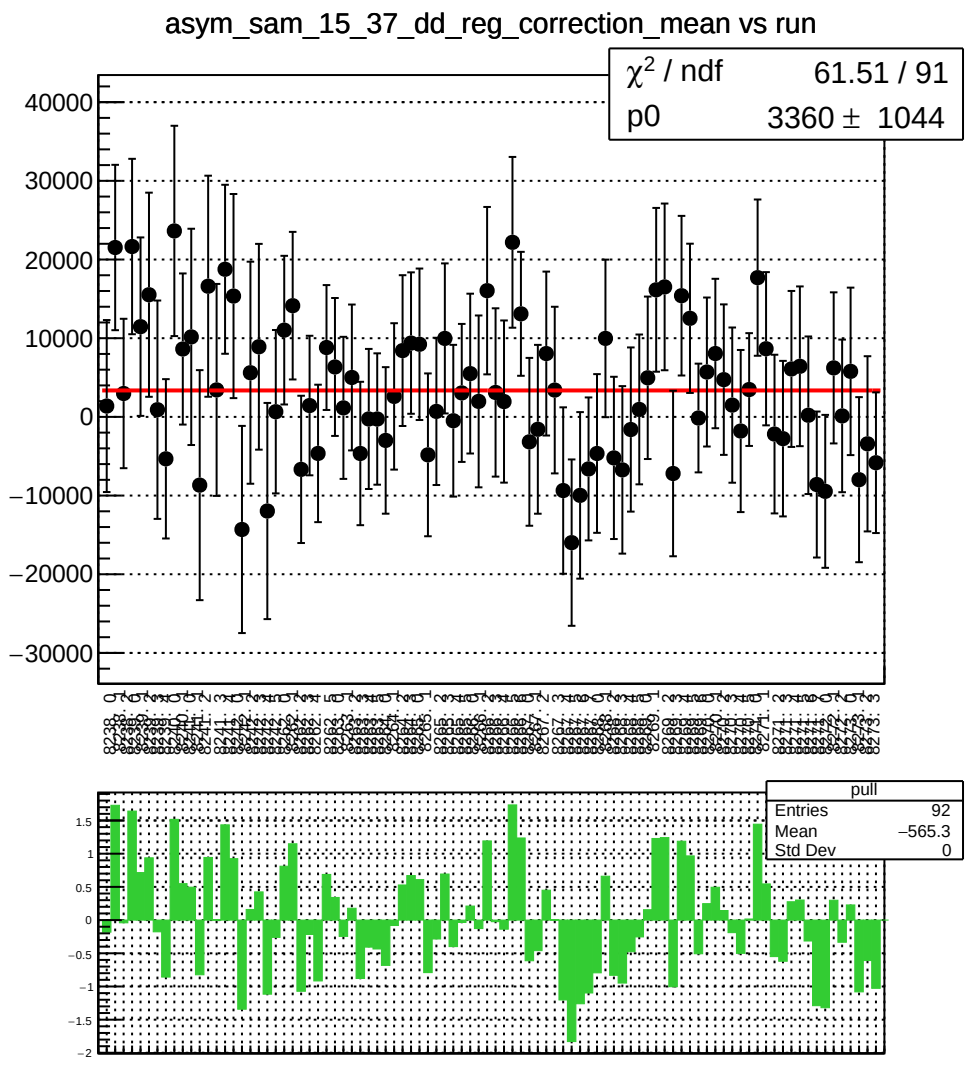

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.42 / 91
p0 3.218e−14 ± 3.466e−14
pull
Entries 92
Mean −4.606
Std Dev 20.15
pull1D
Entries 92
Mean 0.03738
Std Dev 0.94

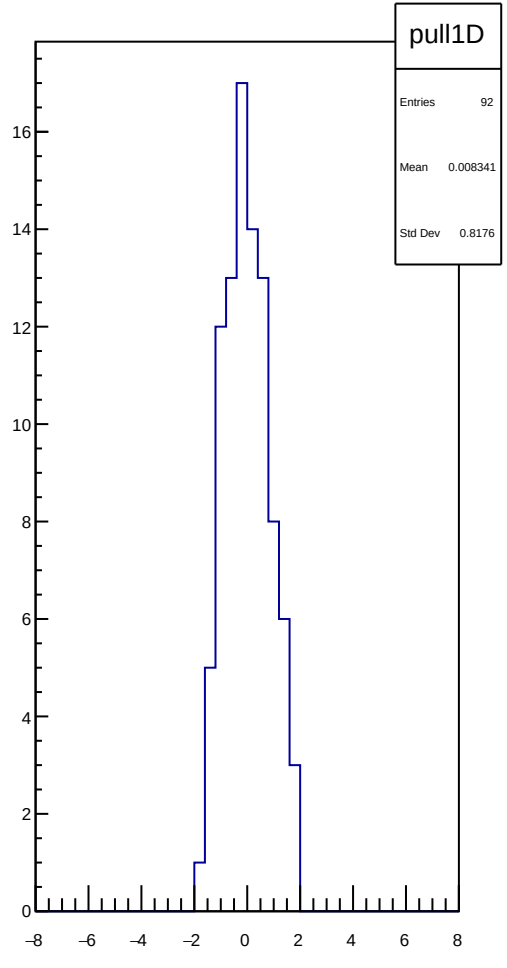

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.772e+05 / 91
p0 2.801e−11 ± 2.451e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

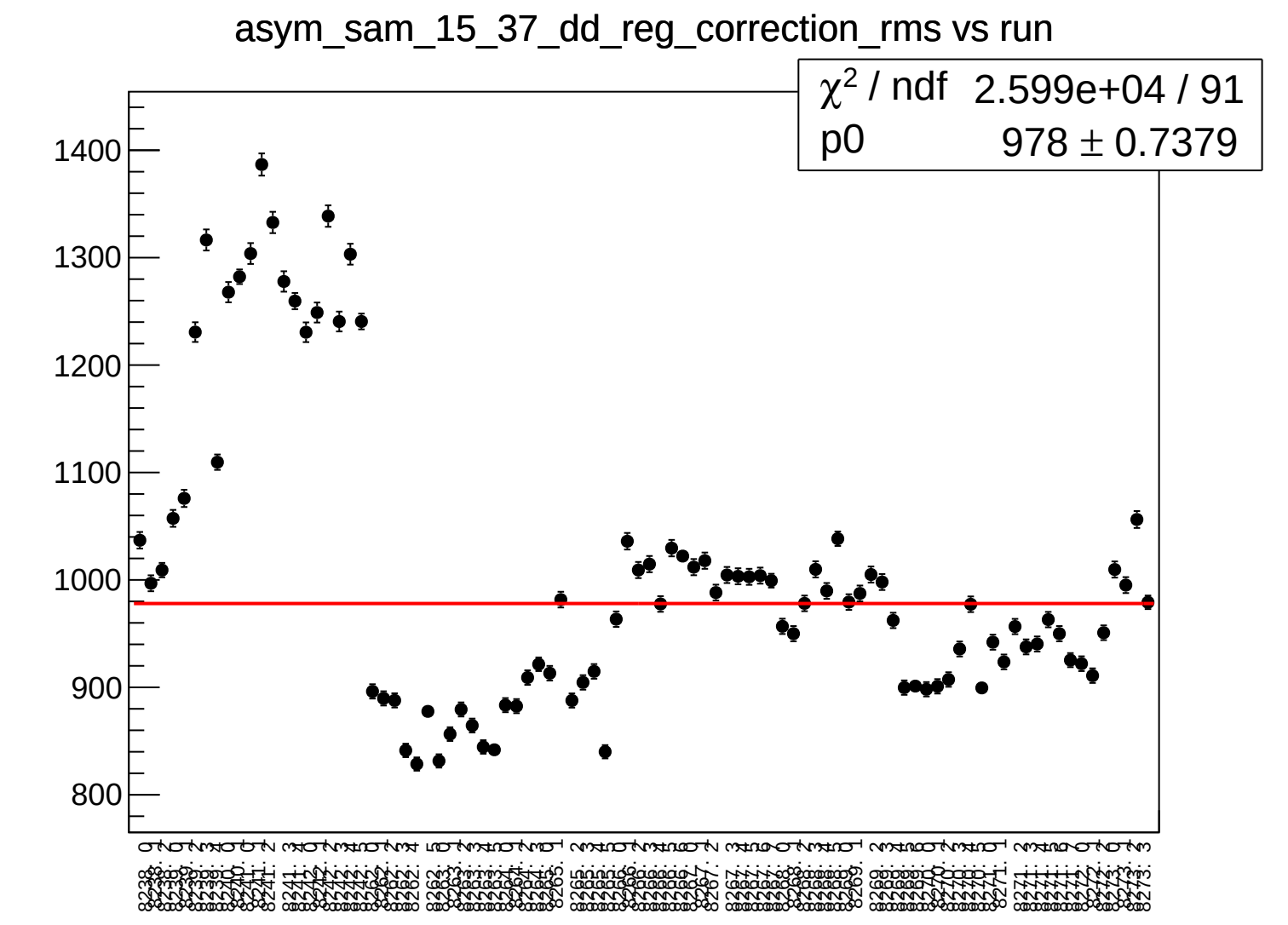

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 89.87 / 91
p0 15.13 ± 79.42
3000
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 13.89
Std Dev 0
3
2
1
0
−1
−2

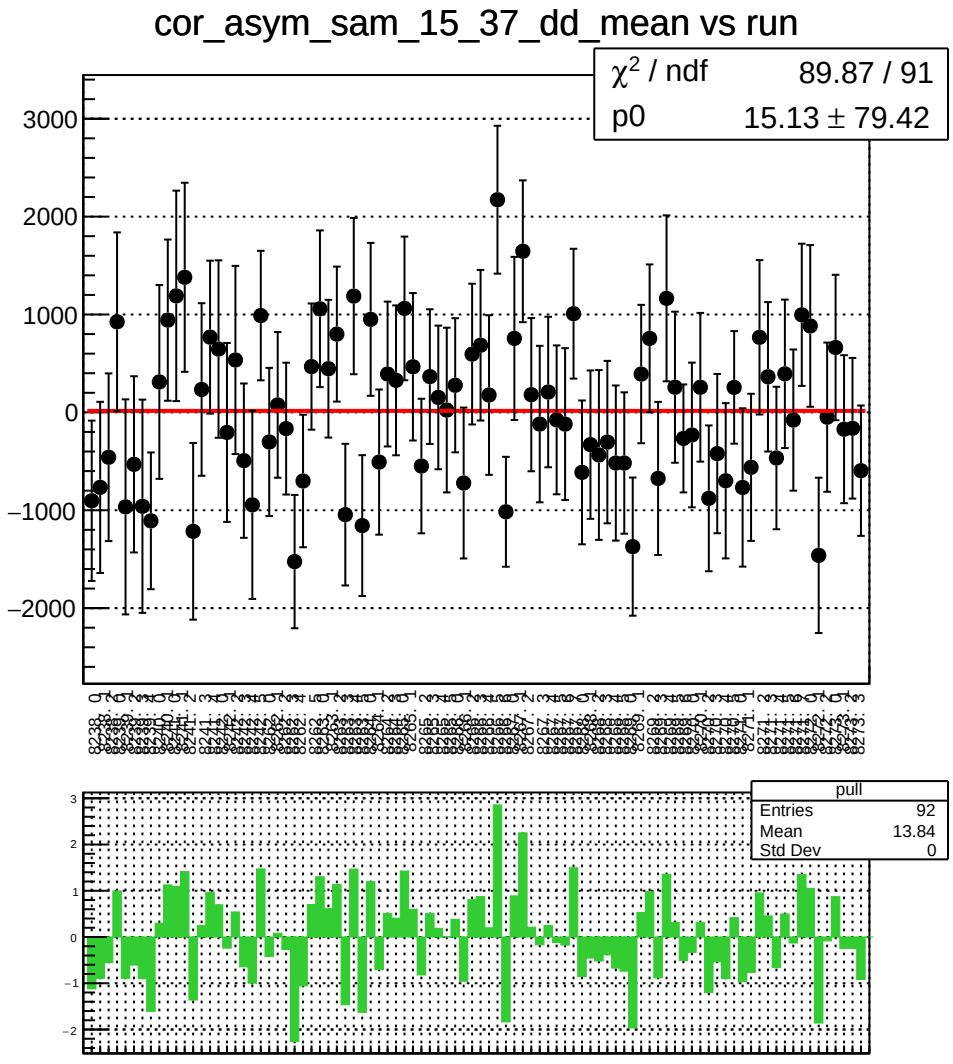

pull1D
Entries 92
Mean 0.008651
Std Dev 0.9883
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

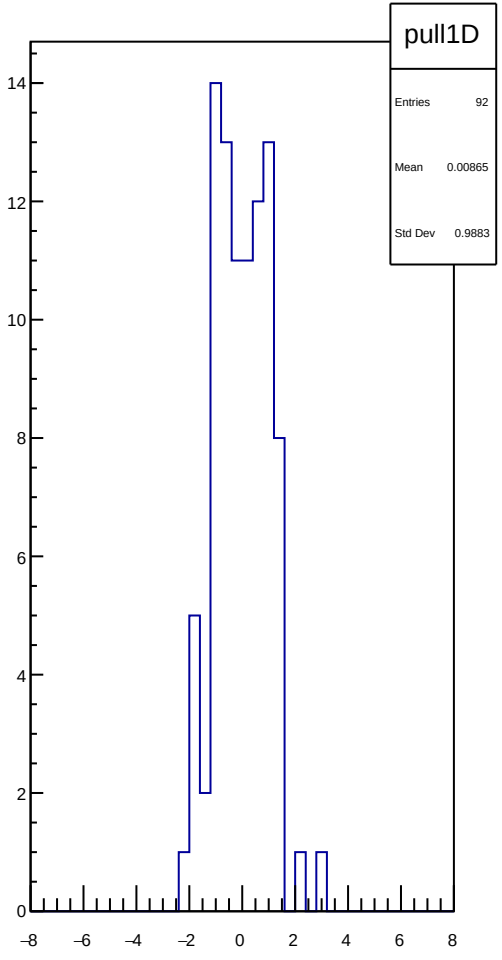

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.058e+04 / 91
p0 74.55 ± 0.05616
110
100
90
80
70
60

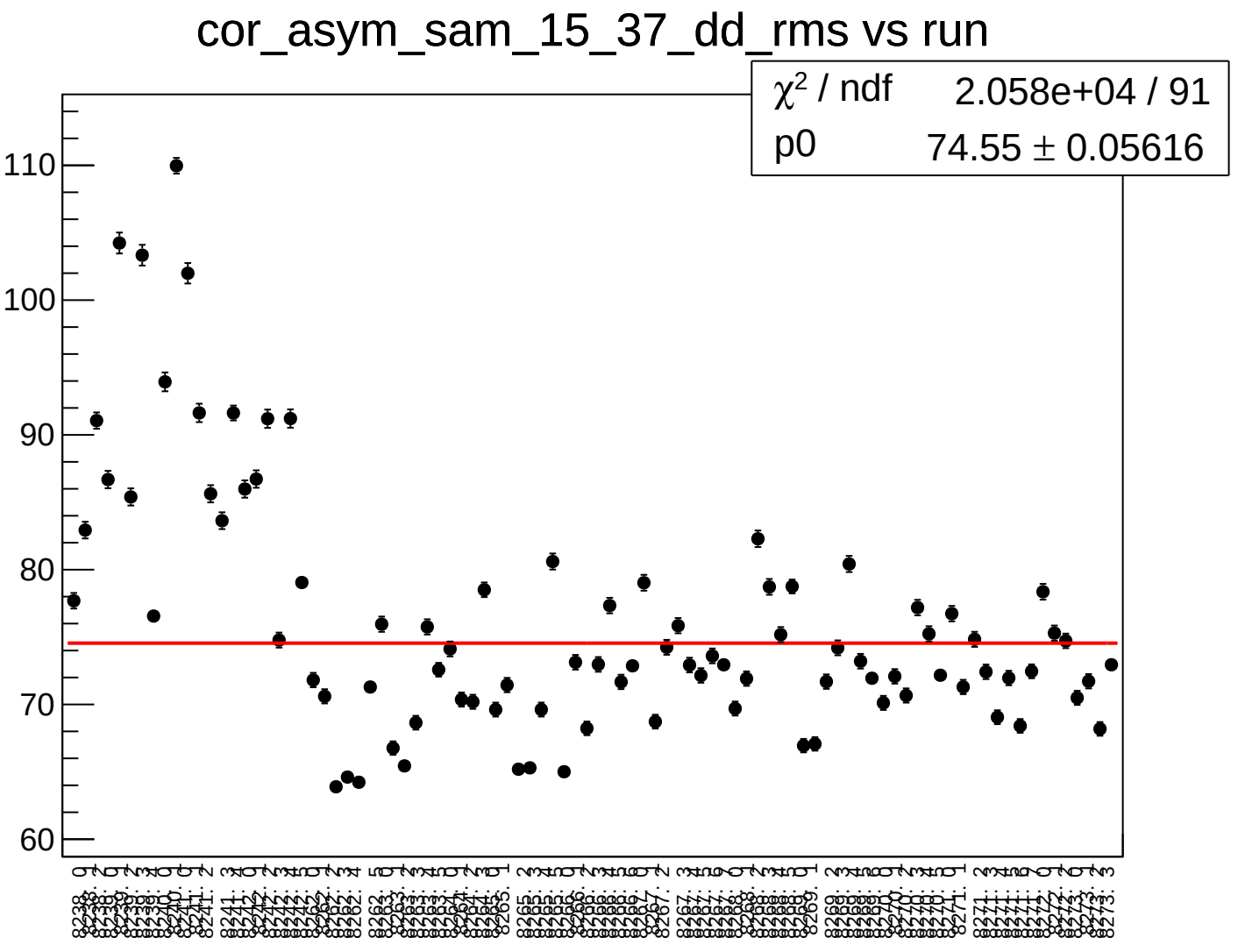

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 61.51 / 91
p0 3360 ± 1044
pull
Entries 92
Mean −565.3
Std Dev 0

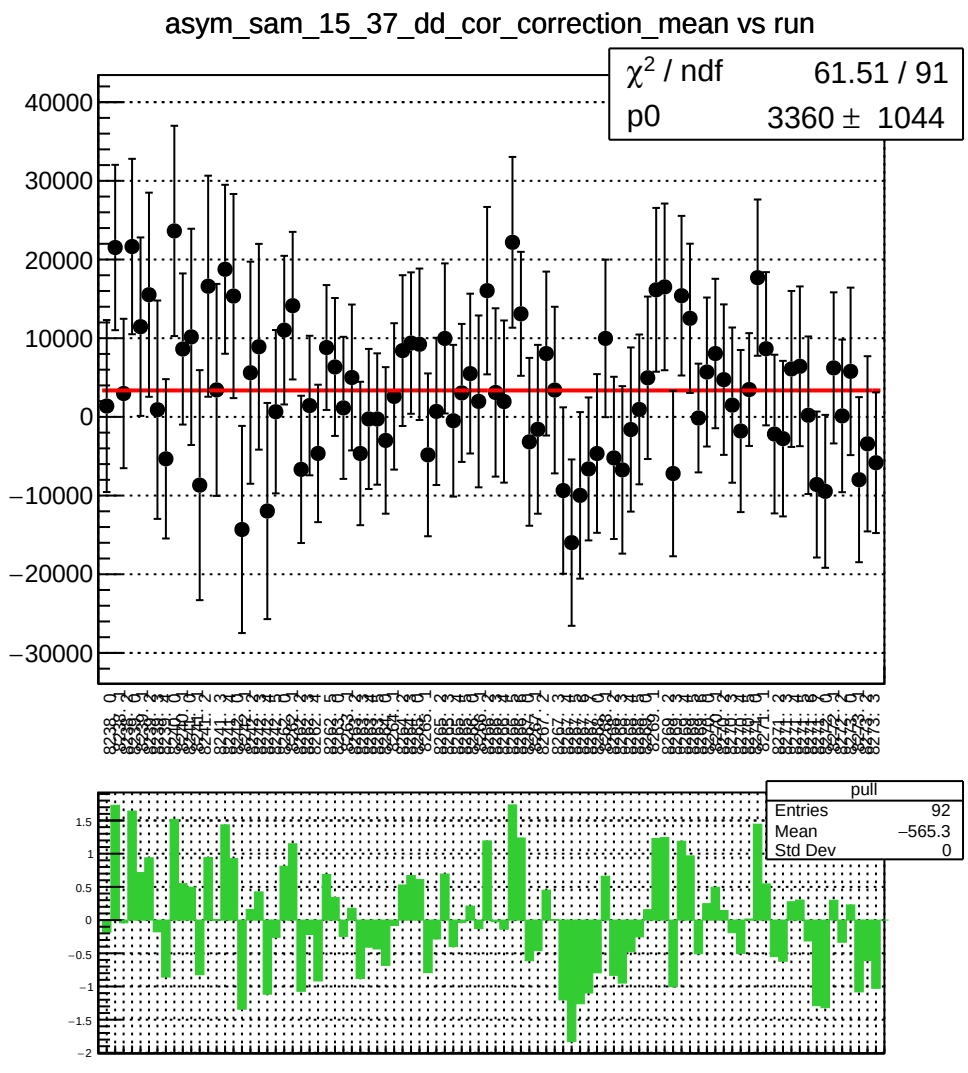

pull1D
Entries 92
Mean 0.008341
Std Dev 0.8176

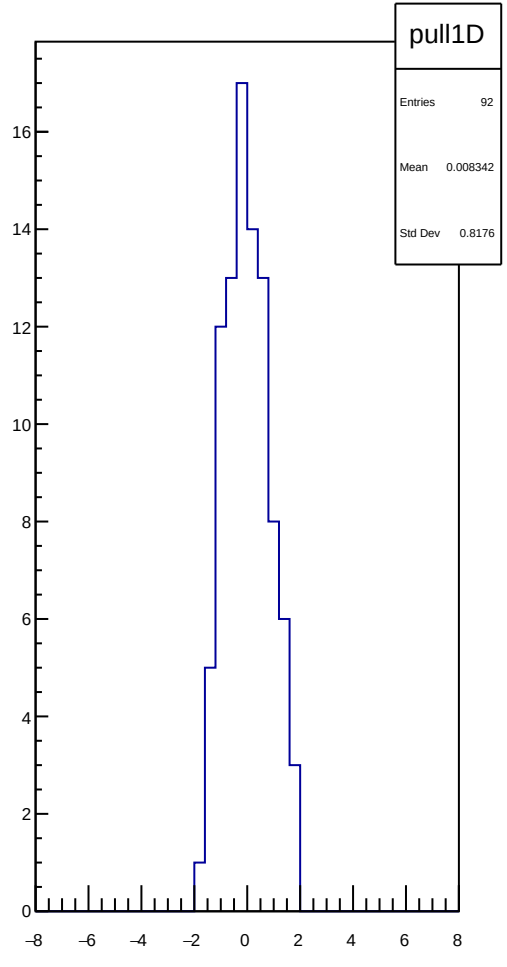

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 2.599e+04 / 91
p0 978 ± 0.7379
1400
1300
1200
1100
1000
900
800

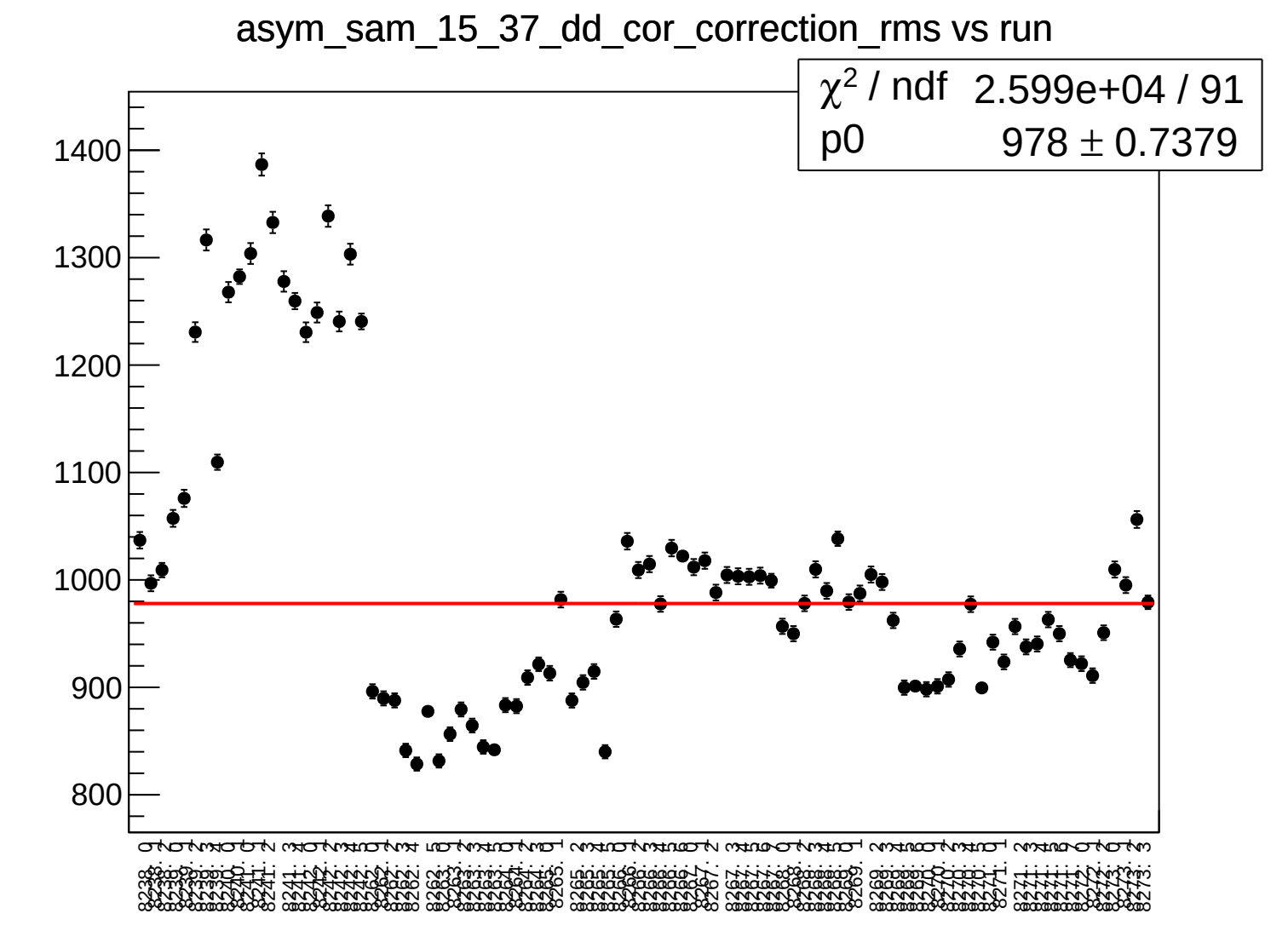

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 89.87 / 91
p0 15.13 ± 79.42
3000
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 13.84
Std Dev 0
3
2
1
0
−1
−2

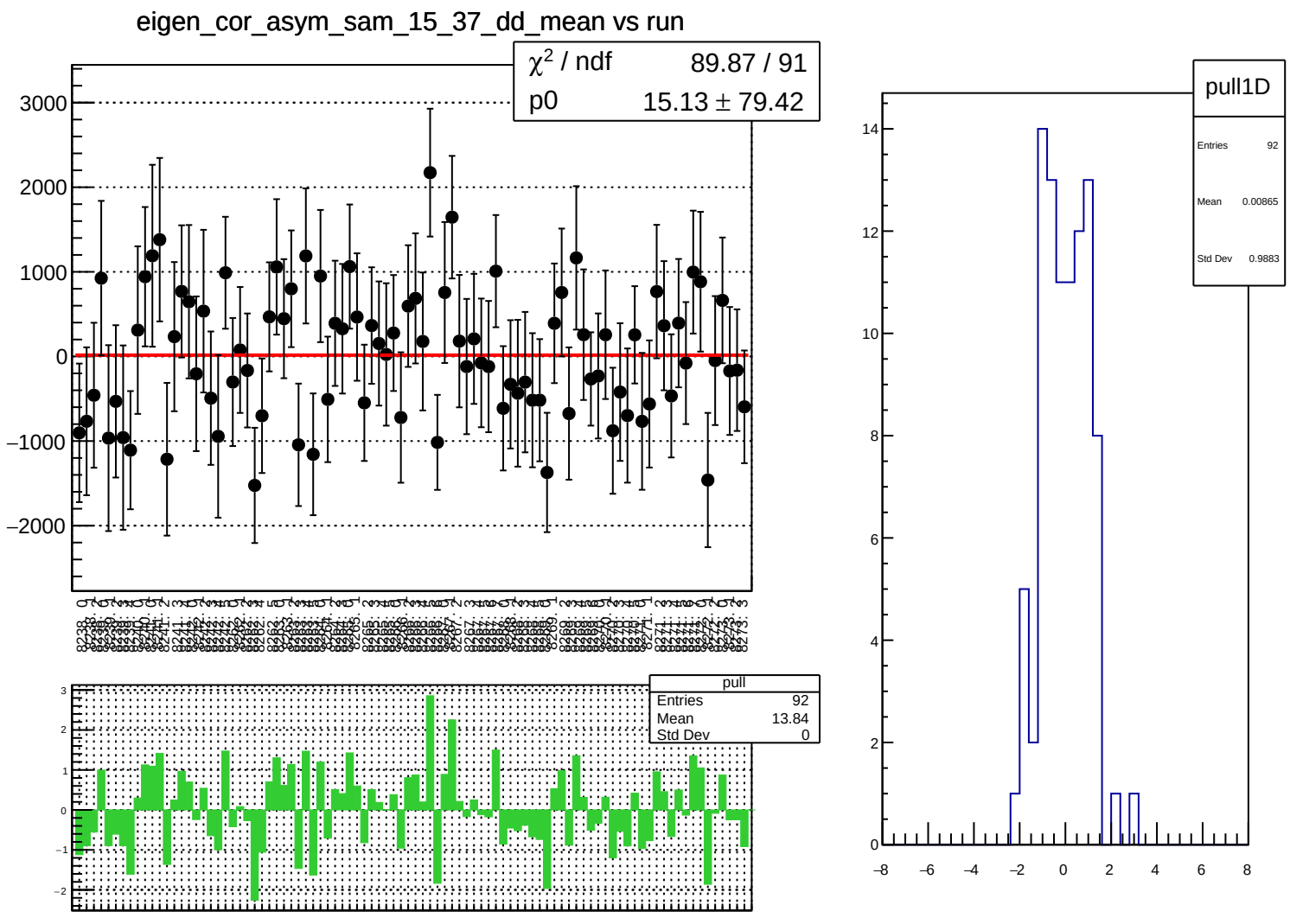

pull1D
Entries 92
Mean 0.00865
Std Dev 0.9883
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

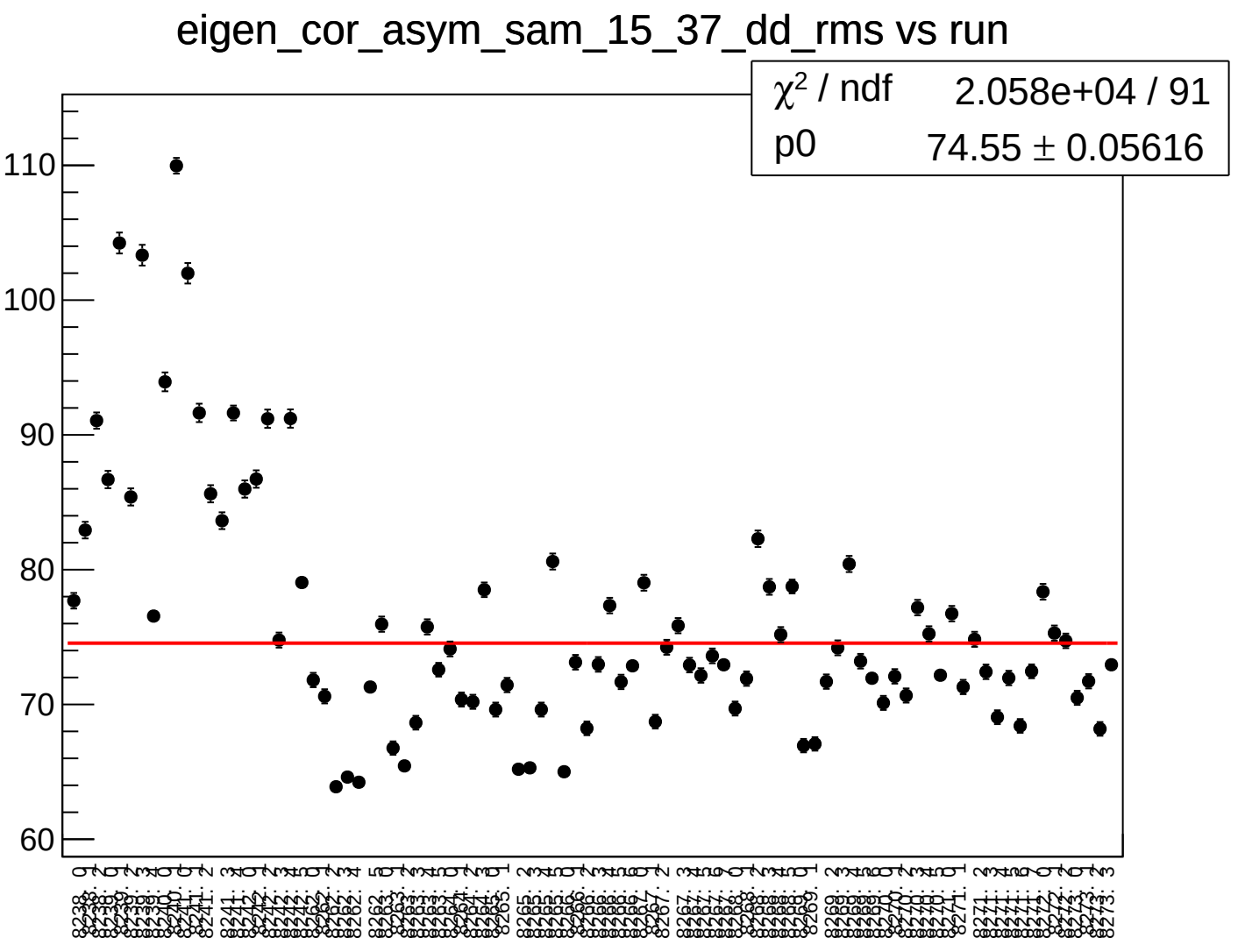

cor_asym_sam_15_37_dd_rms vs run
$\chi^2$ / ndf 2.058e+04 / 91
p0 74.55 ± 0.05616
110
100
90
80
70
60

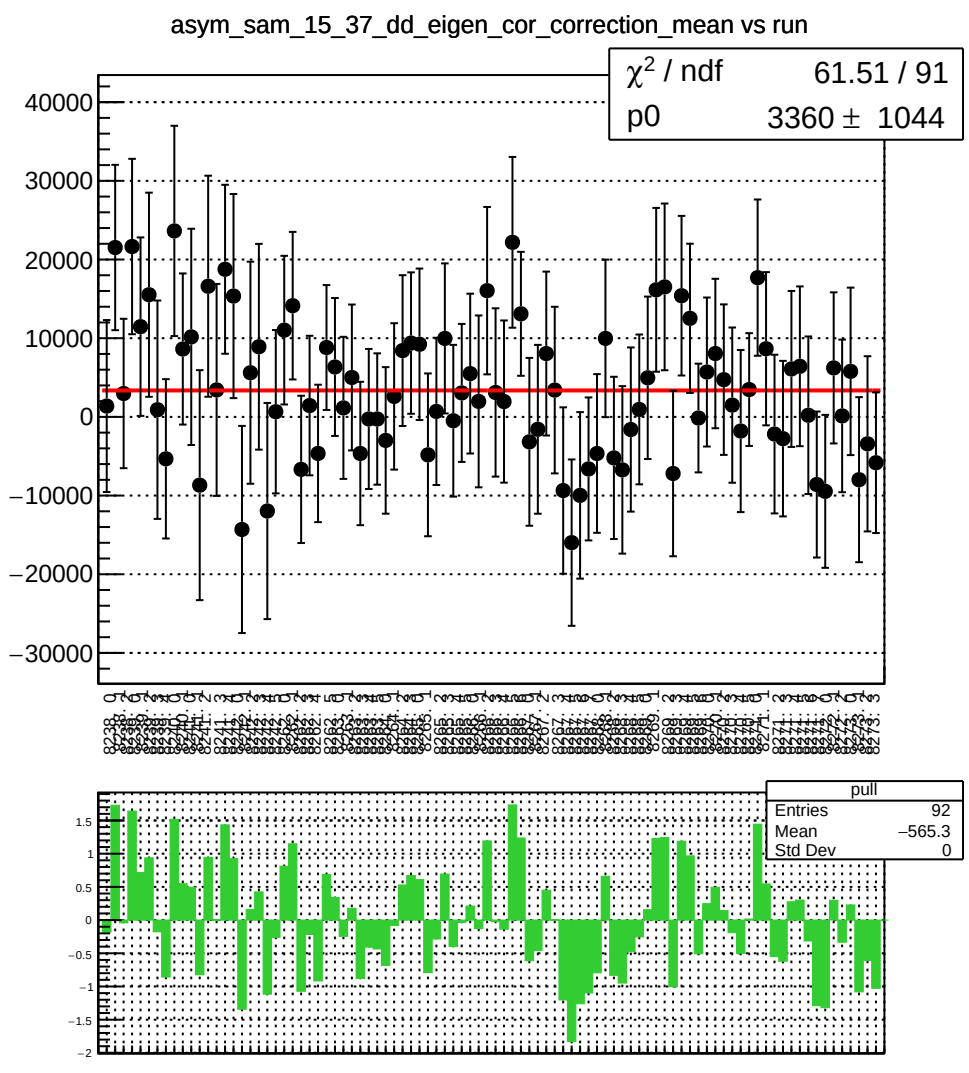

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 61.51 / 91
p0 3360 ± 1044
pull
Entries 92
Mean −565.3
Std Dev 0

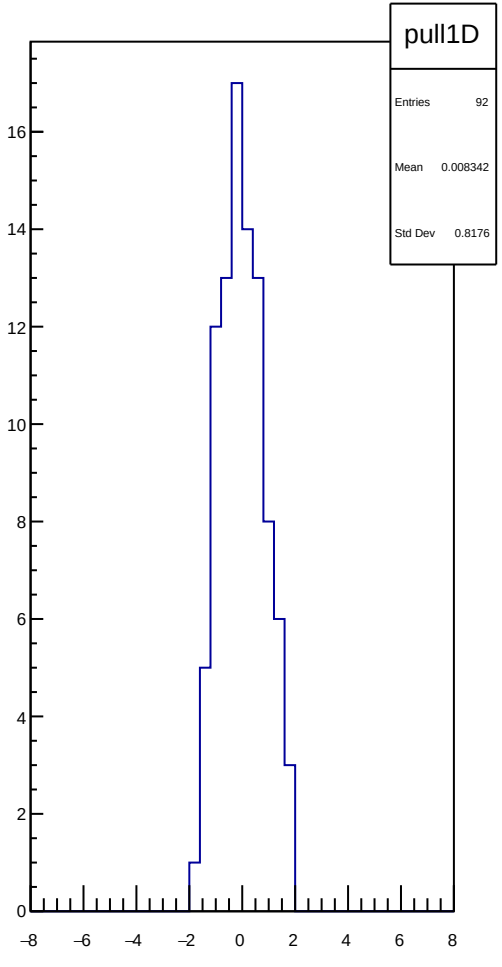

pull1D
Entries 92
Mean 0.008342
Std Dev 0.8176

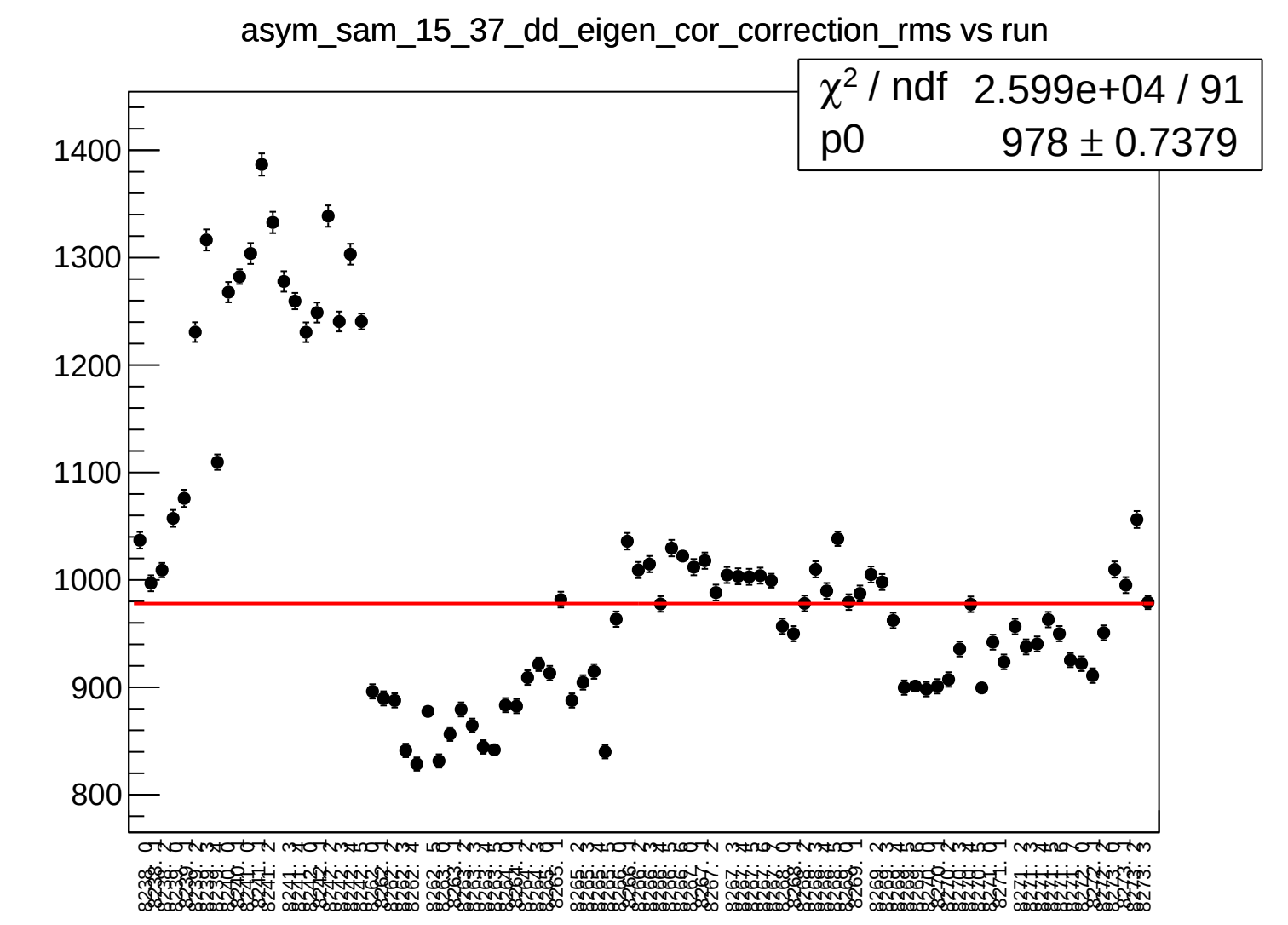

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 2.599e+04 / 91
p0 978 ± 0.7379
1400
1300
1200
1100
1000
900
800

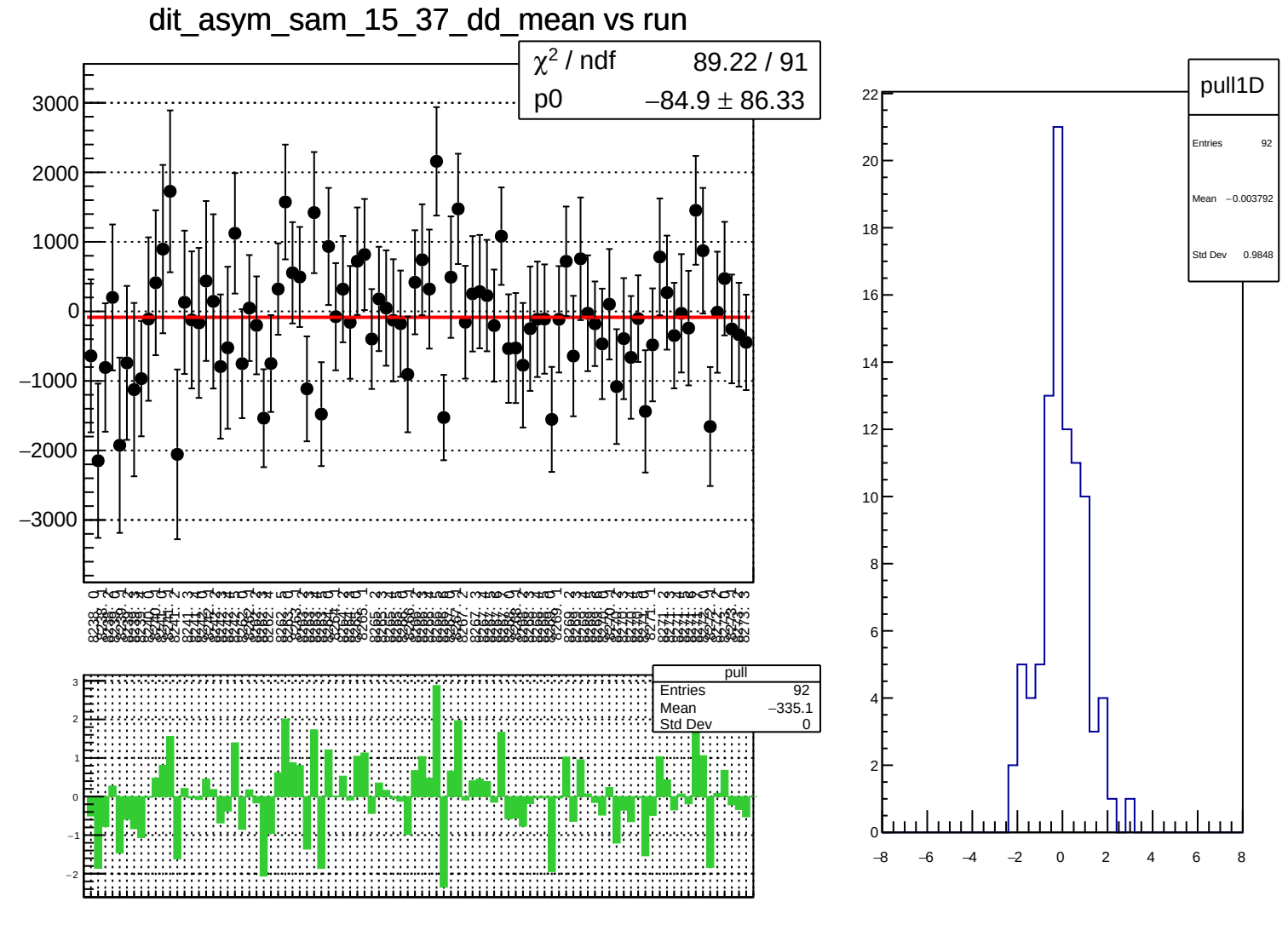

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 89.87 / 91
p0 15.13 ± 79.42
3000
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 13.84
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.00865
Std Dev 0.9883
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

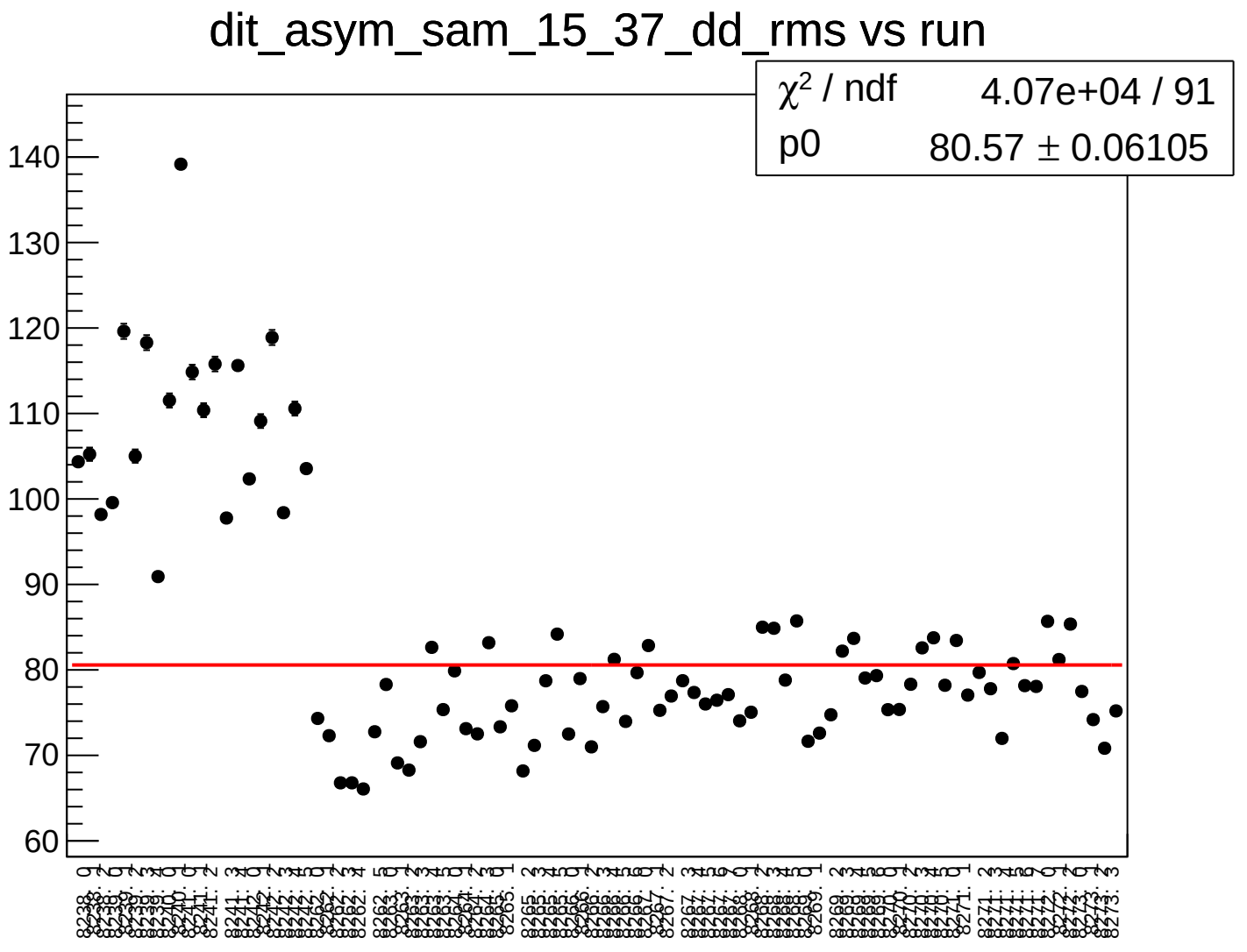

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.058e+04 / 91
p0 74.55 ± 0.05616
110
100
90
80
70
60

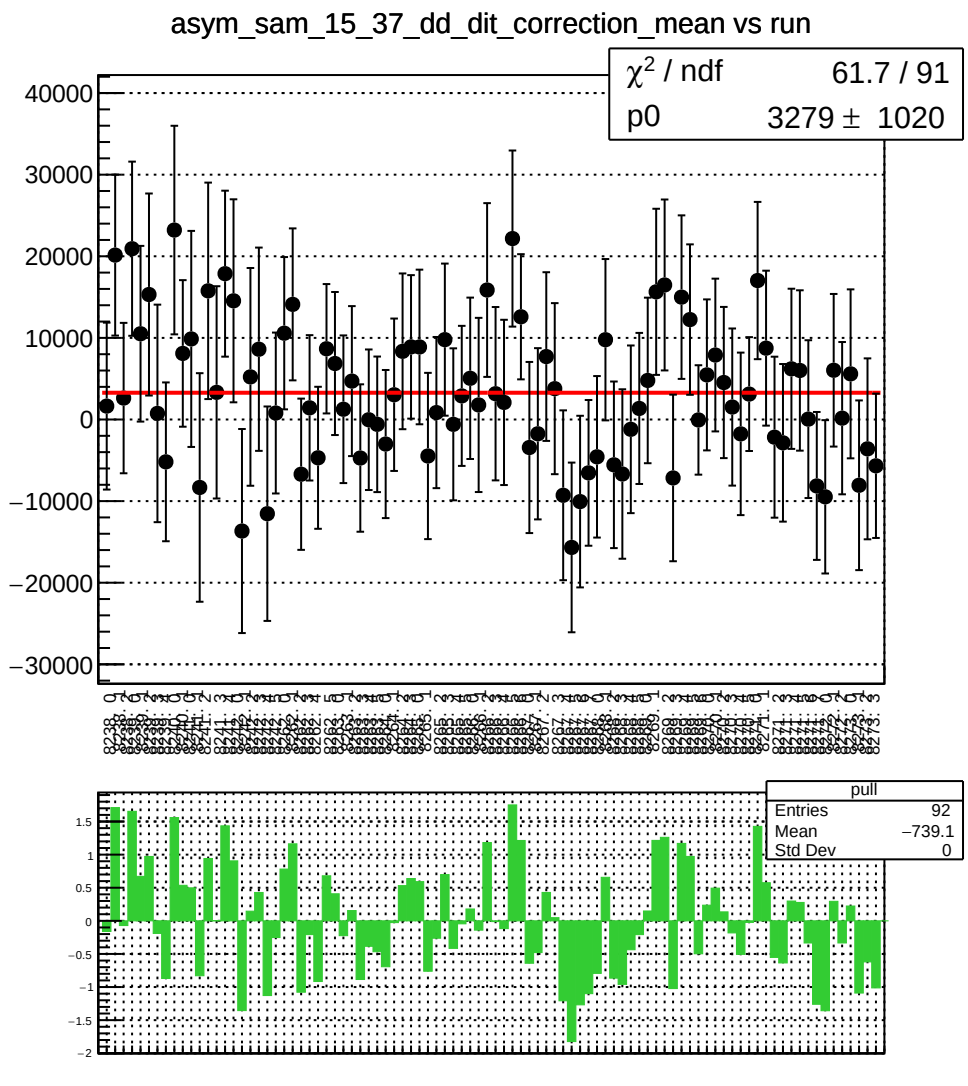

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 61.51 / 91
p0 3360 ± 1044
pull
Entries 92
Mean −565.3
Std Dev 0

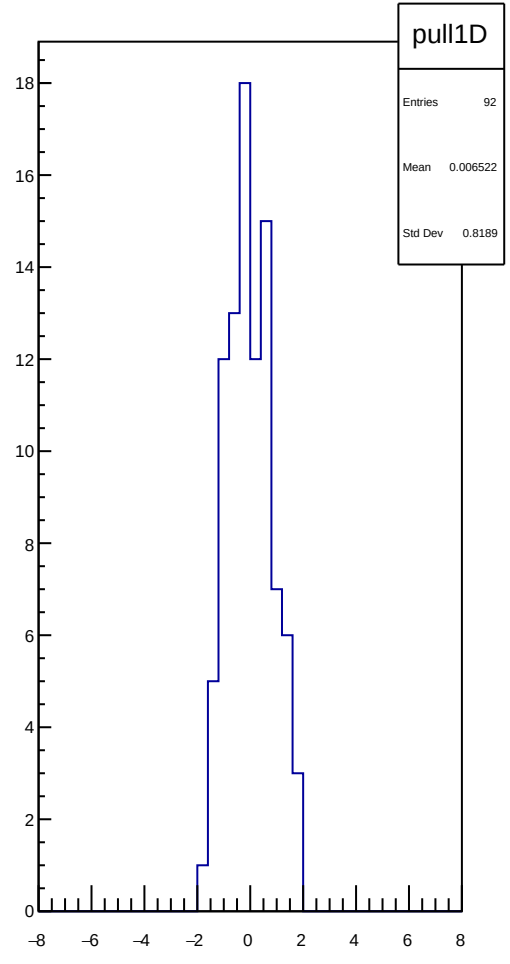

pull1D
Entries 92
Mean 0.008342
Std Dev 0.8176

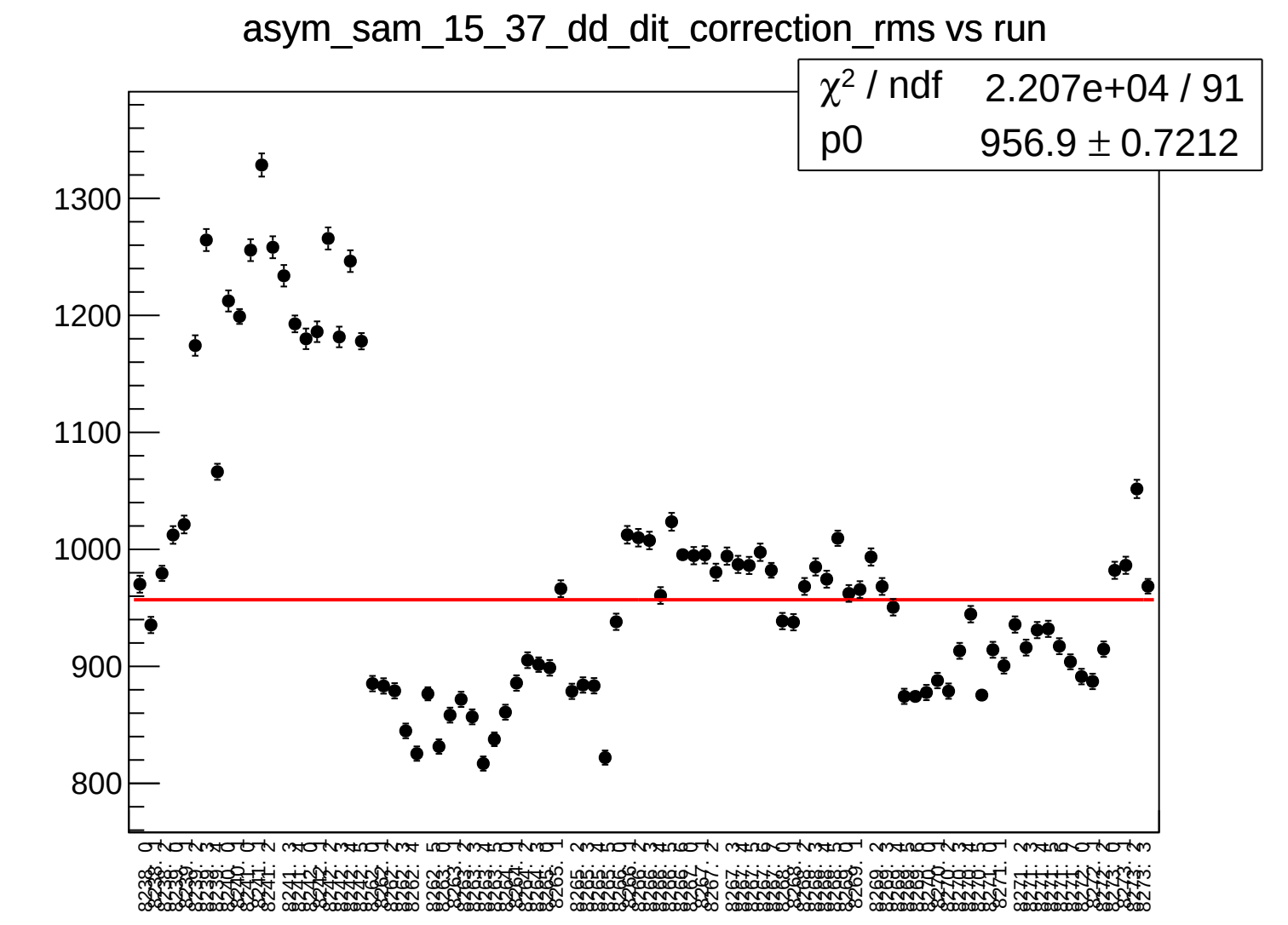

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.599e+04 / 91
p0 978 ± 0.7379
1400
1300
1200
1100
1000
900
800

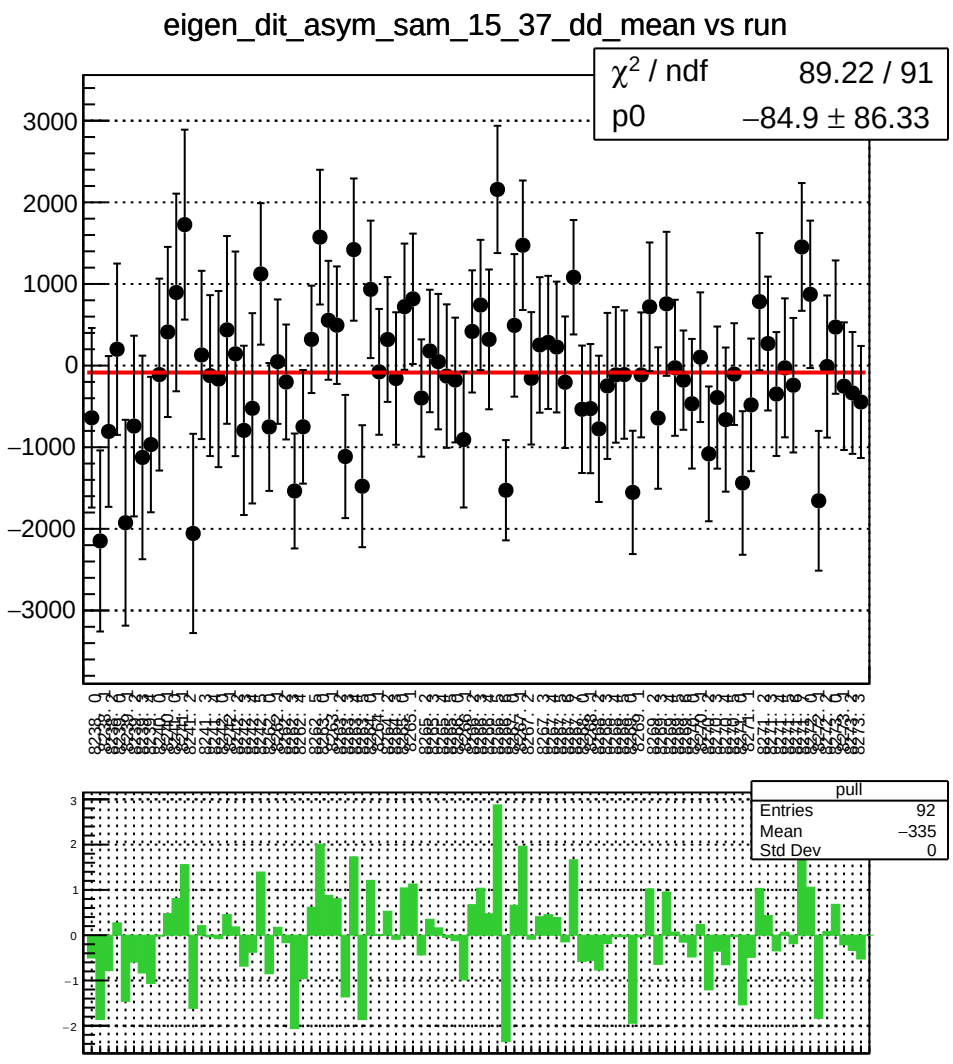

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 89.22 / 91
p0 −84.9 ± 86.33
pull
Entries 92
Mean −335.1
Std Dev 0
pull1D
Entries 92
Mean −0.003792
Std Dev 0.9848

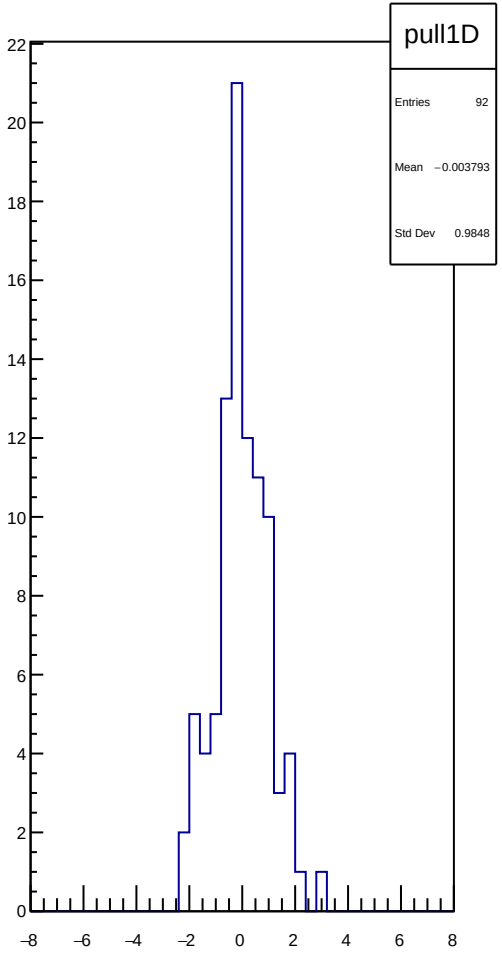

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 4.07e+04 / 91
p0 80.57 ± 0.06105
140
130
120
110
100
90
80
70
60

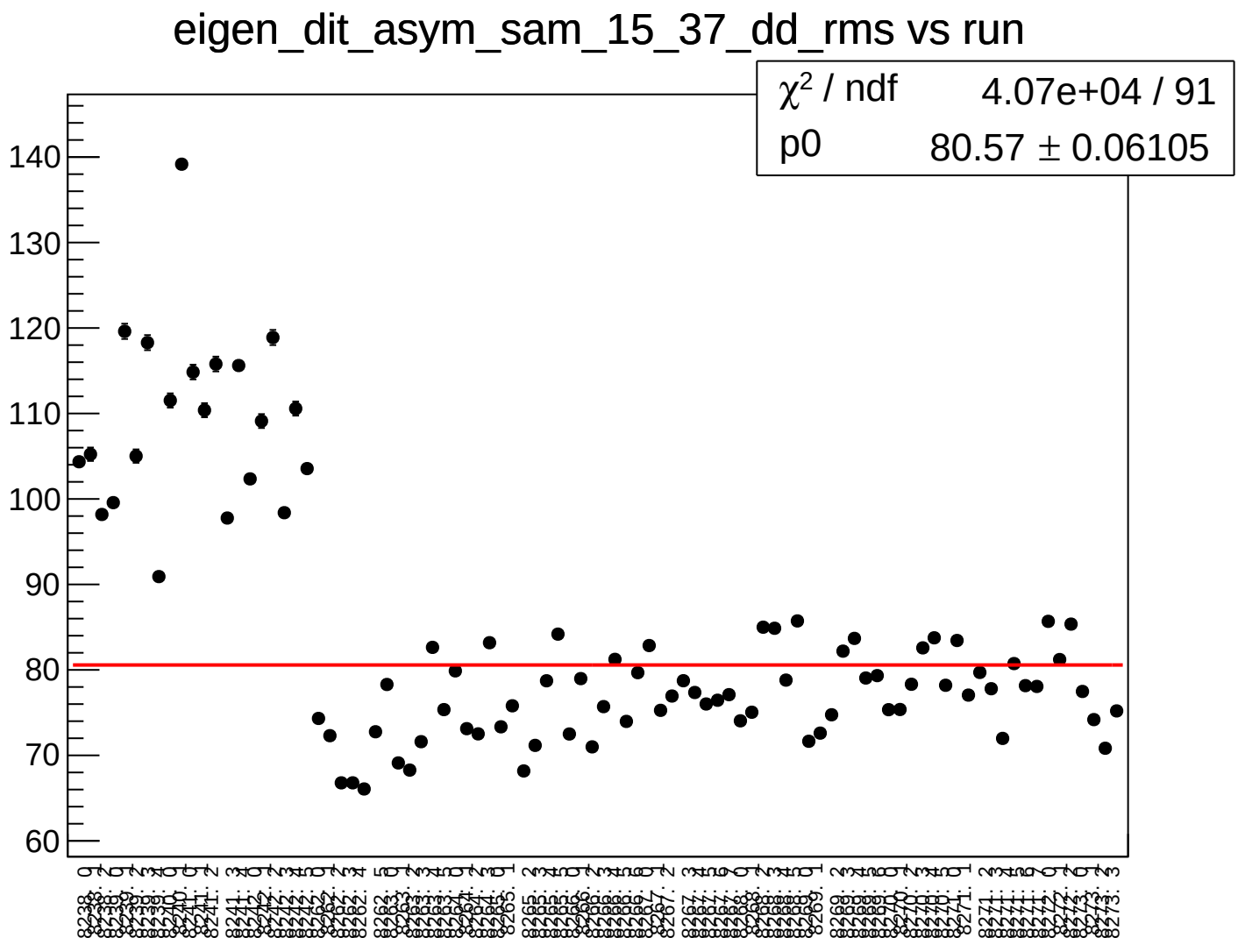

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 61.7 / 91
p0 3279 ± 1020
pull
Entries 92
Mean −739.1
Std Dev 0

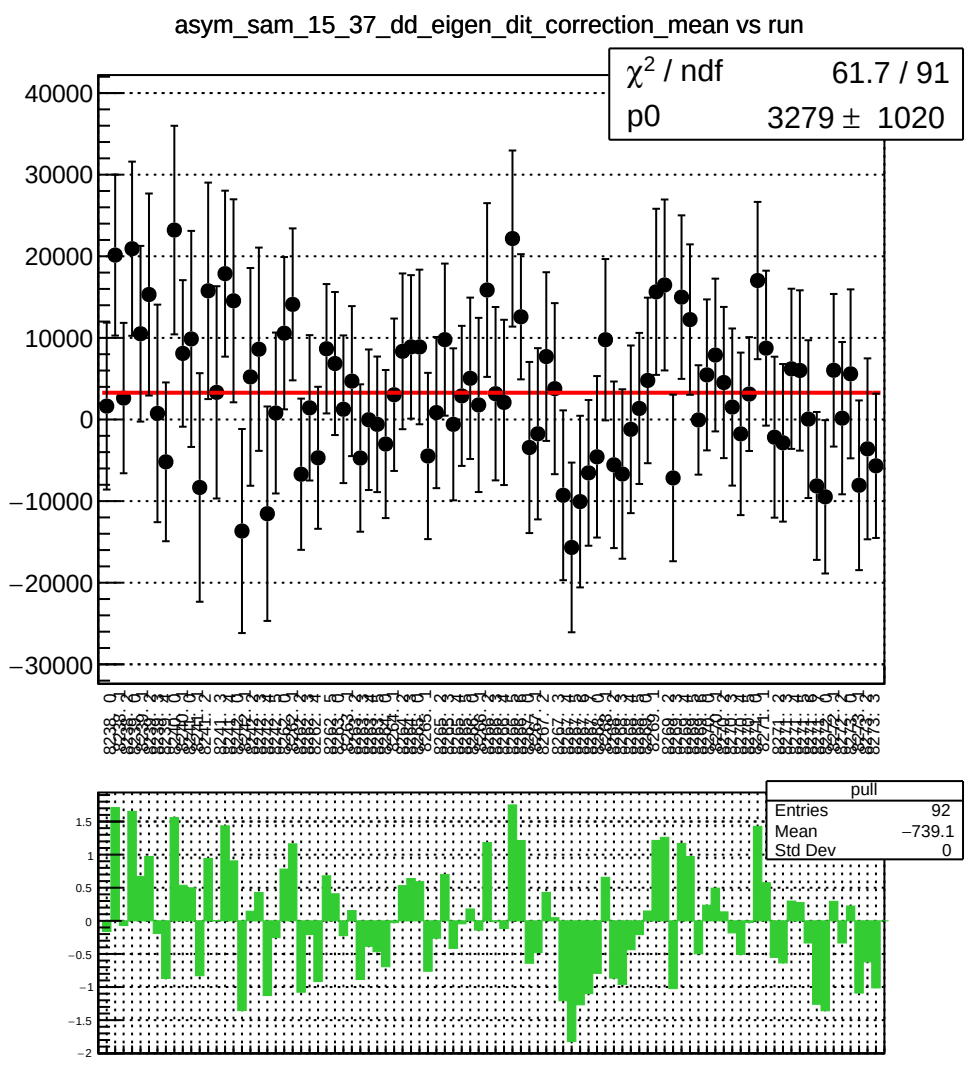

pull1D
Entries 92
Mean 0.006522
Std Dev 0.8189

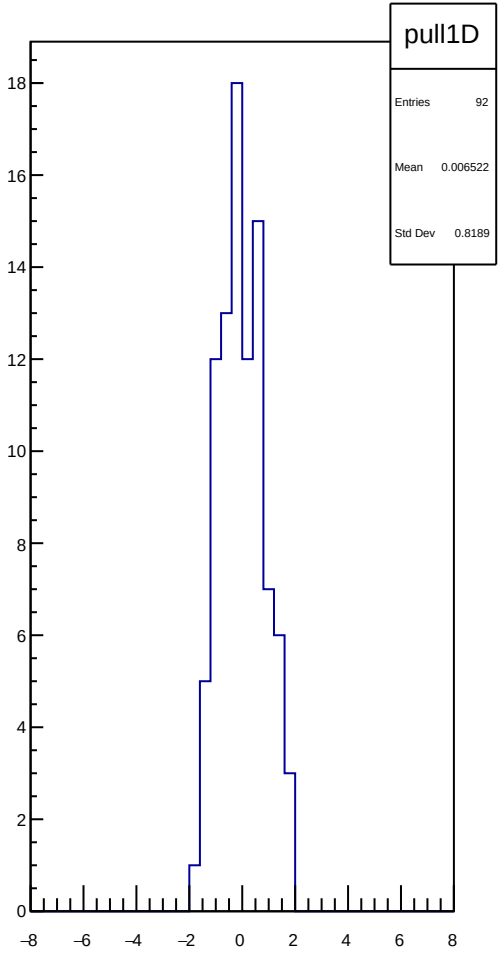

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 2.207e+04 / 91
p0 956.9 ± 0.7212
1300
1200
1100
1000
900
800

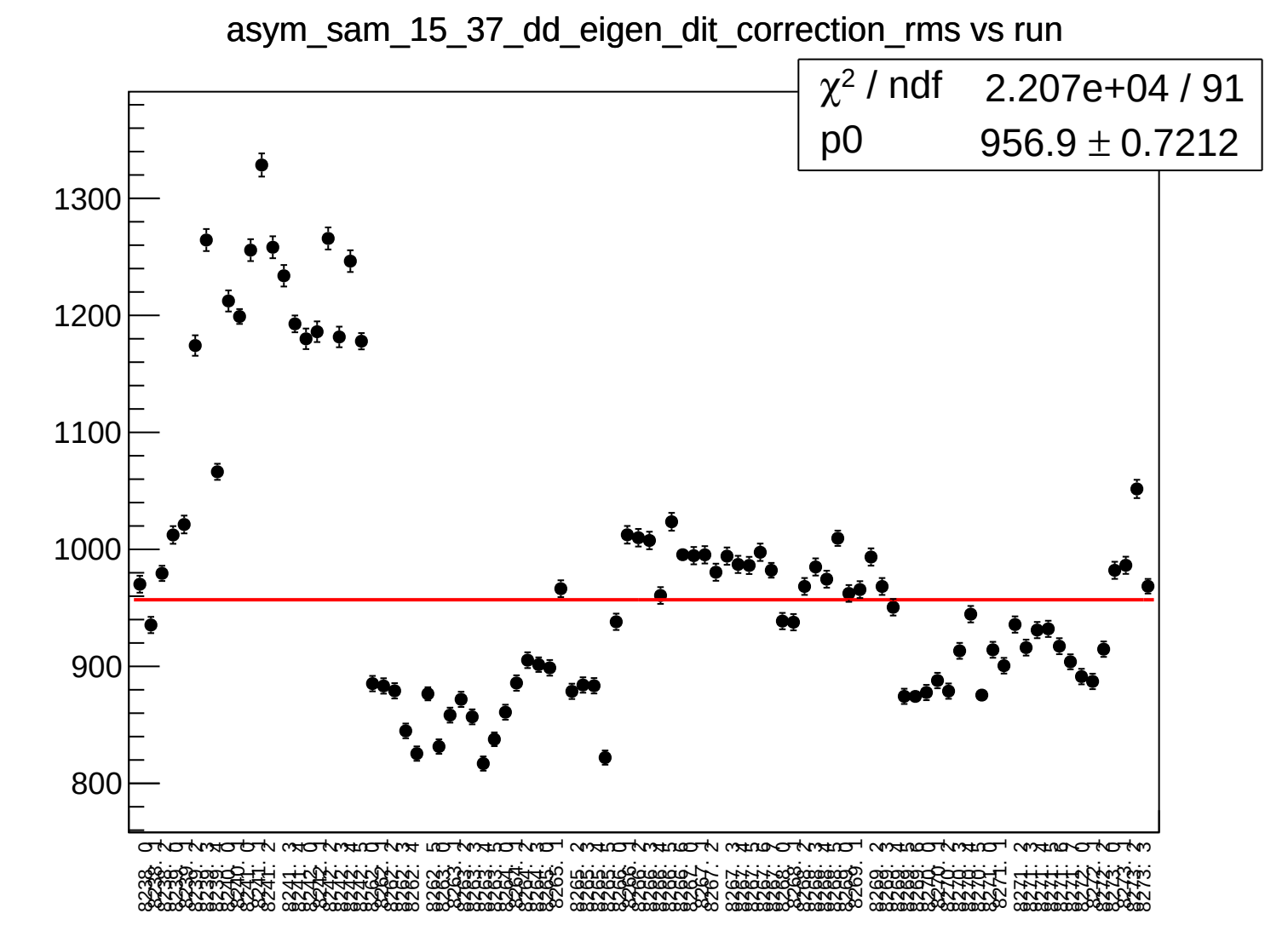

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 89.22 / 91
p0 −84.9 ± 86.33
pull
Entries 92
Mean −335
Std Dev 0

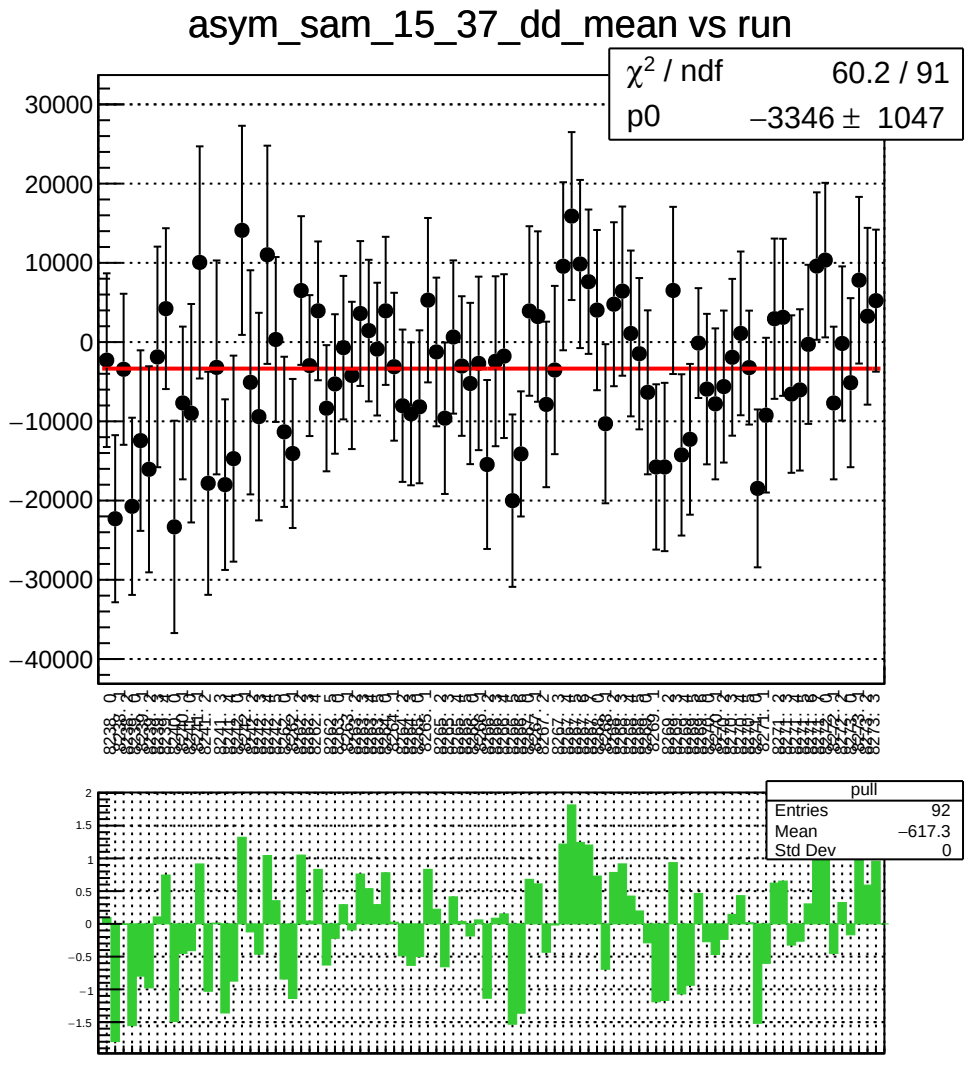

pull1D
Entries 92
Mean −0.003793
Std Dev 0.9848

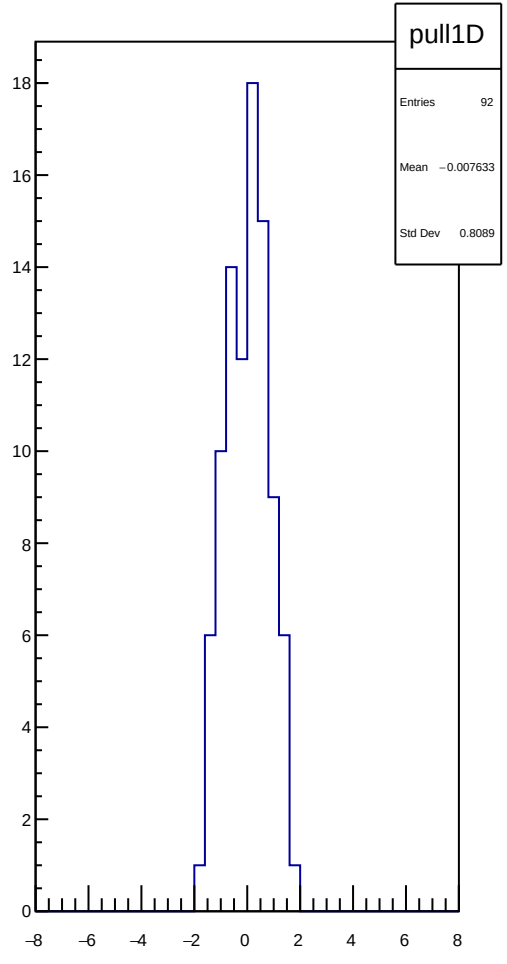

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 4.07e+04 / 91
p0 80.57 ± 0.06105
140
130
120
110
100
90
80
70
60

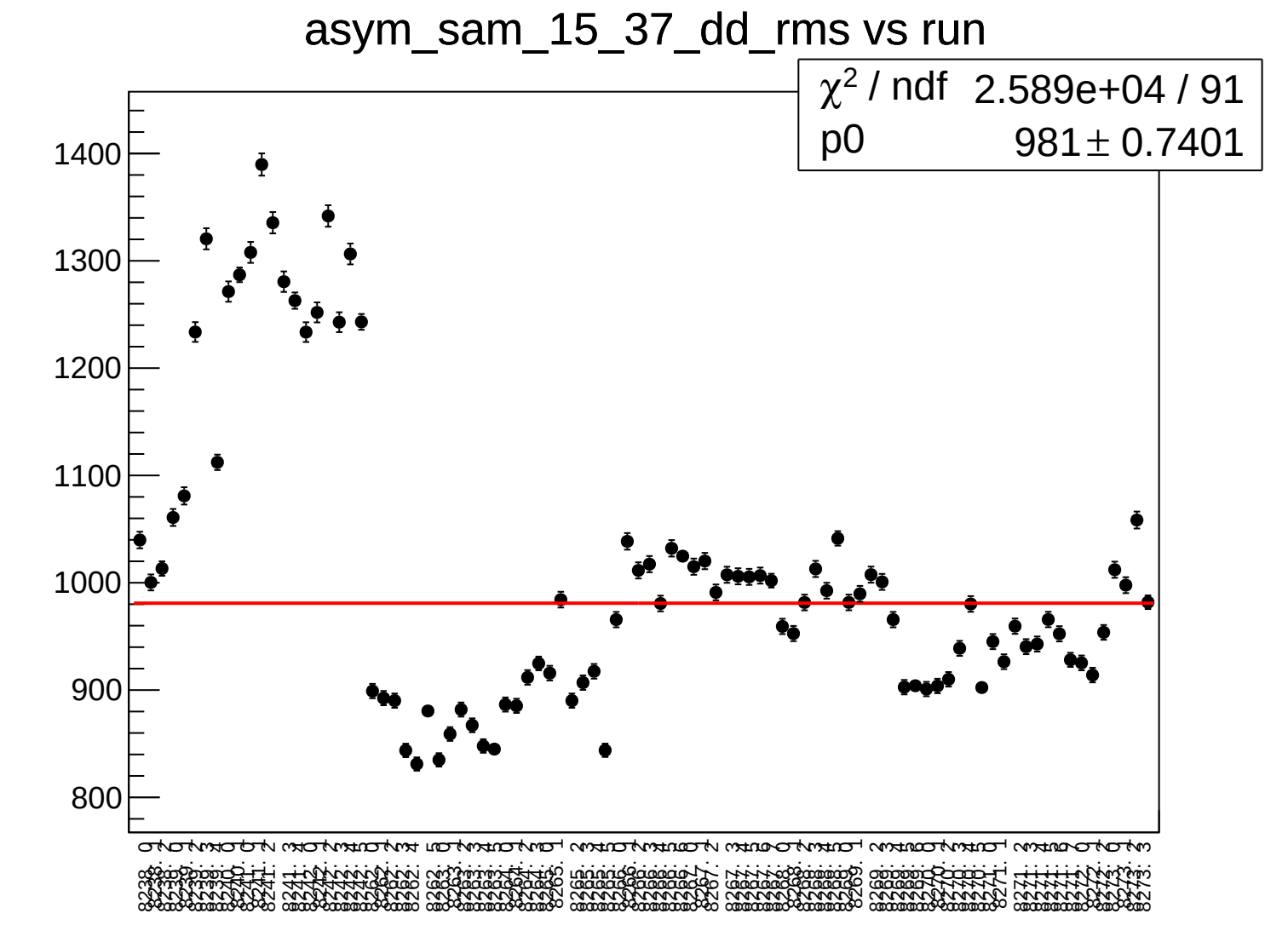

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 61.7 / 91
p0 3279 ± 1020
pull
Entries 92
Mean −739.1
Std Dev 0

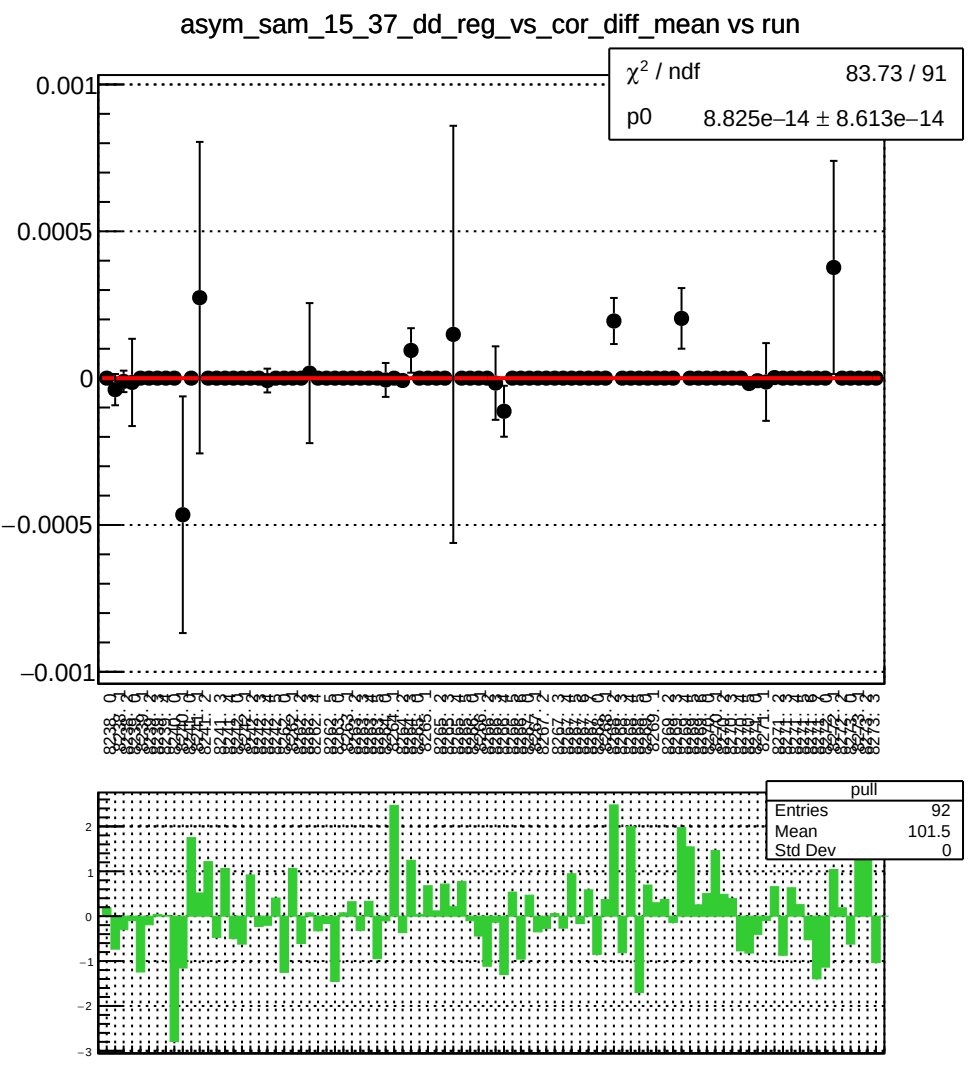

pull1D
Entries 92
Mean 0.006522
Std Dev 0.8189

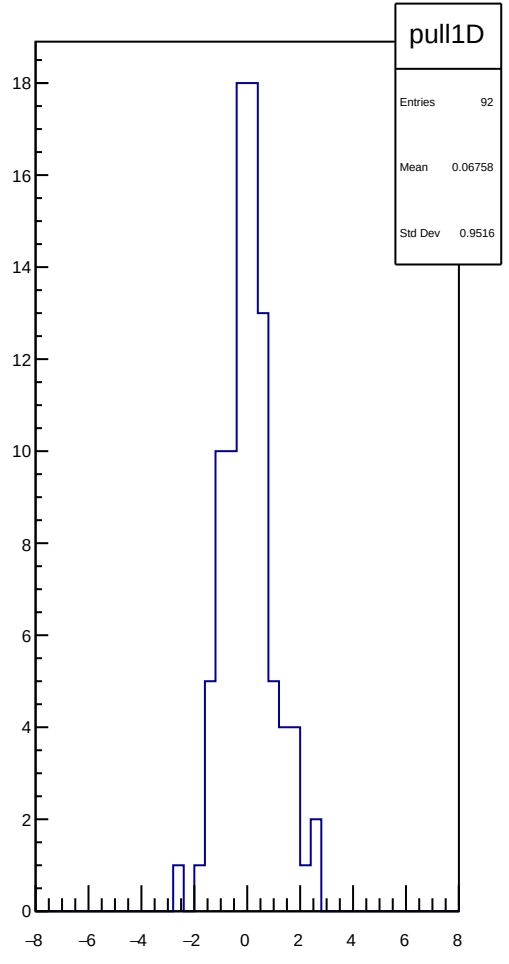

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.207e+04 / 91
p0 956.9 ± 0.7212
1300
1200
1100
1000
900
800

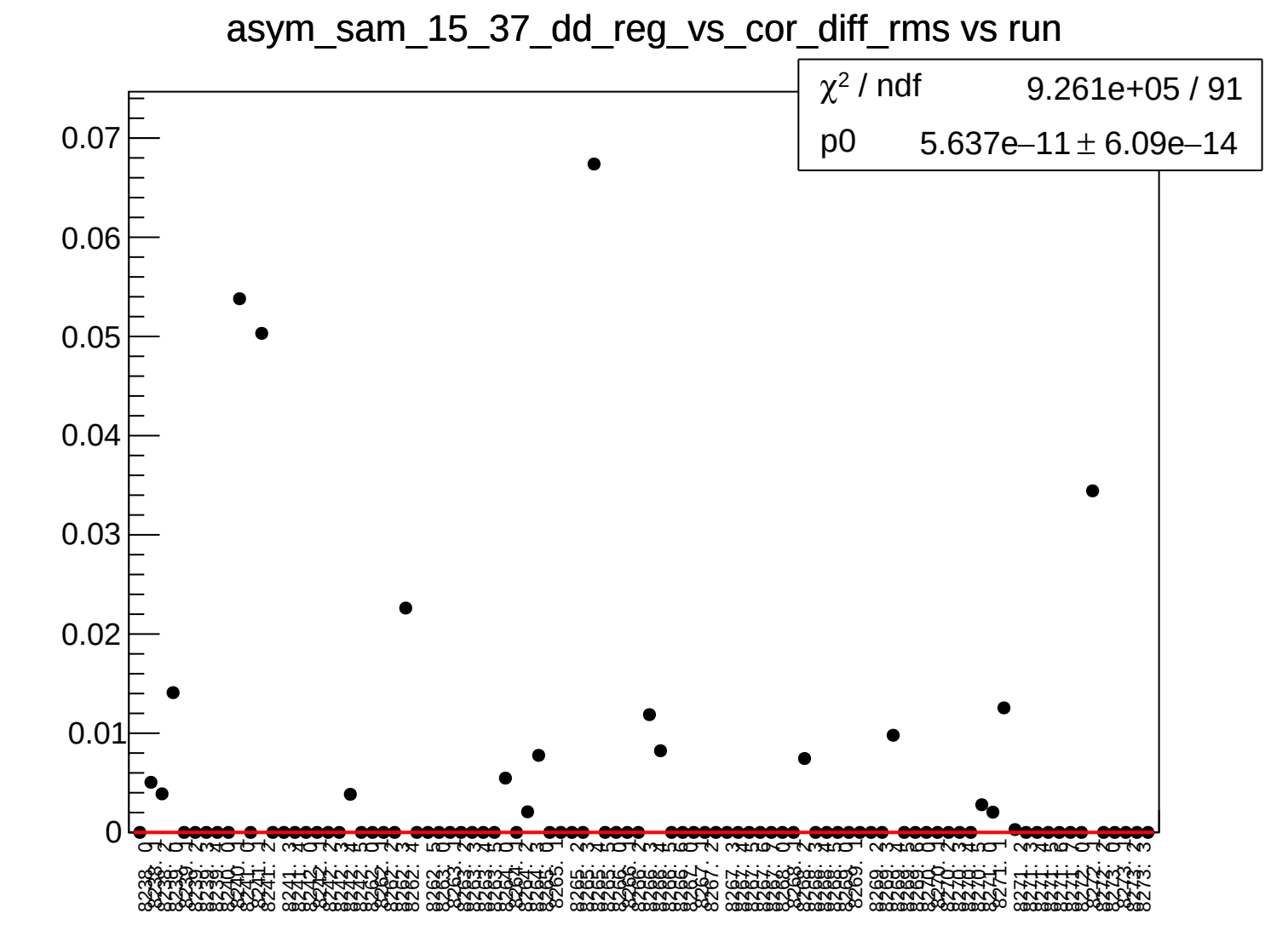

asym_sam_15_37_dd_mean vs run
χ² / ndf 60.2 / 91
p0 −3346 ± 1047
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −617.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

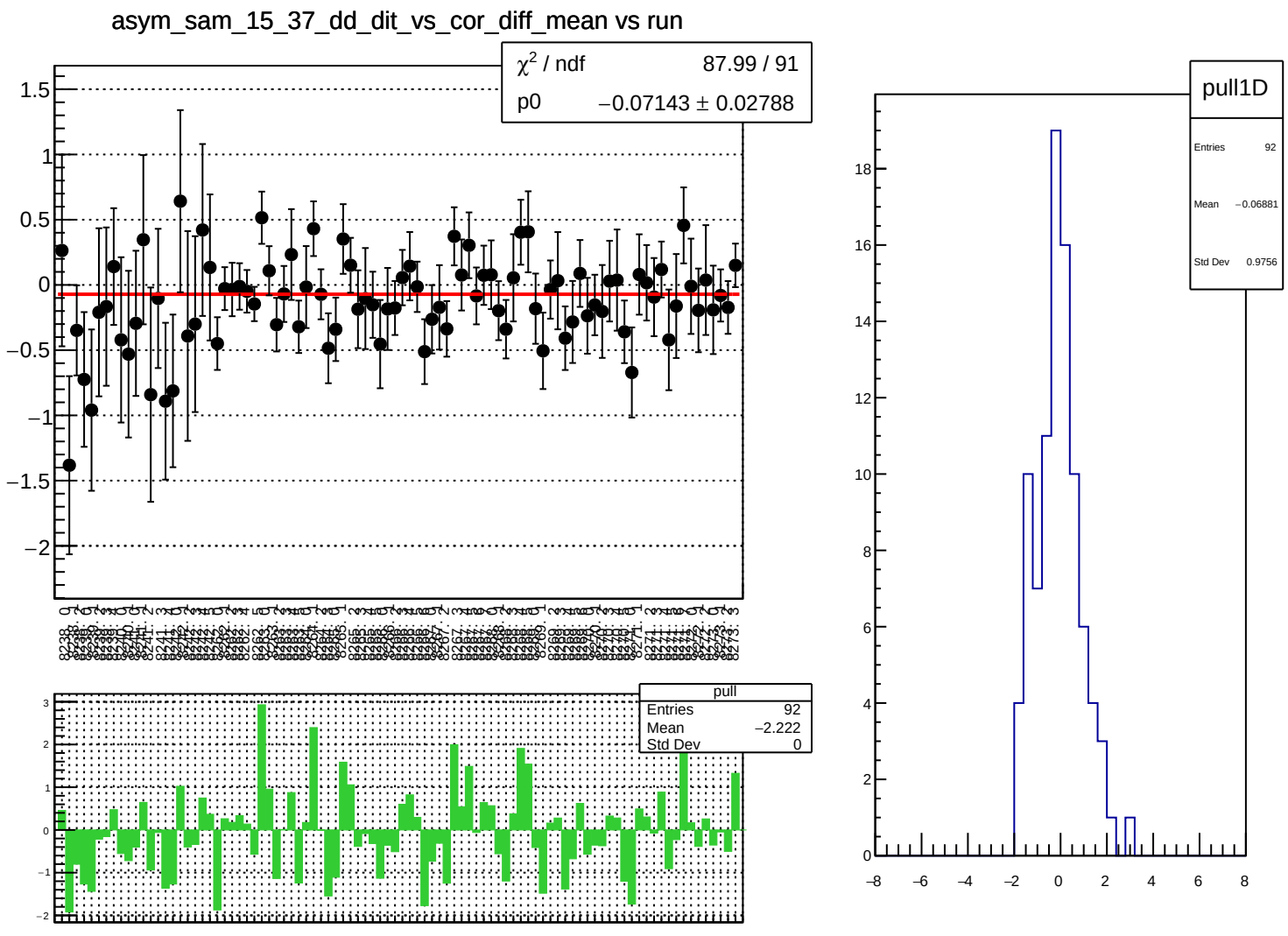

pull1D
Entries 92
Mean −0.007633
Std Dev 0.8089
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

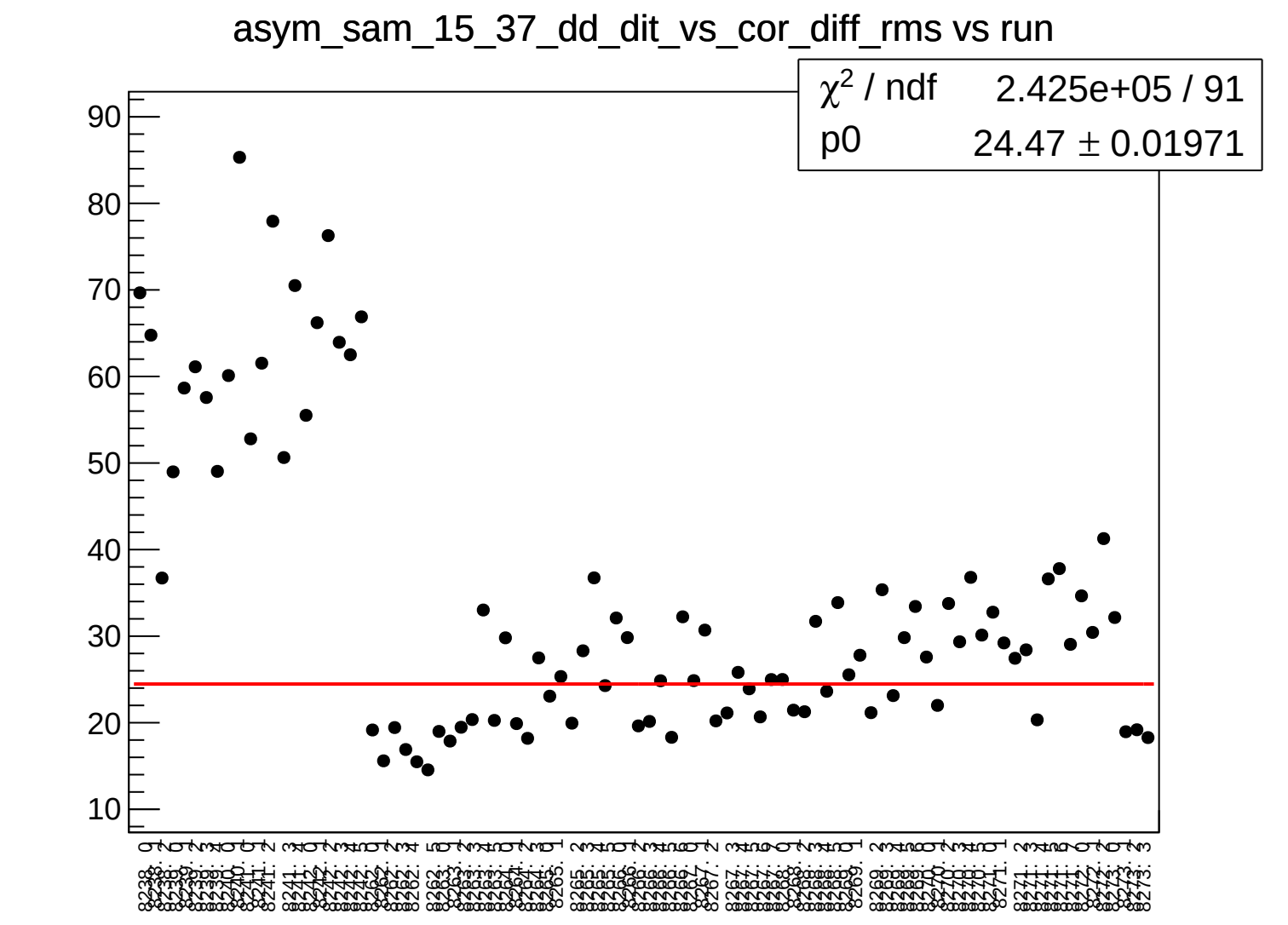

asym_sam_15_37_dd_rms vs run
χ² / ndf 2.589e+04 / 91
p0 981 ± 0.7401
1400
1300
1200
1100
1000
900
800

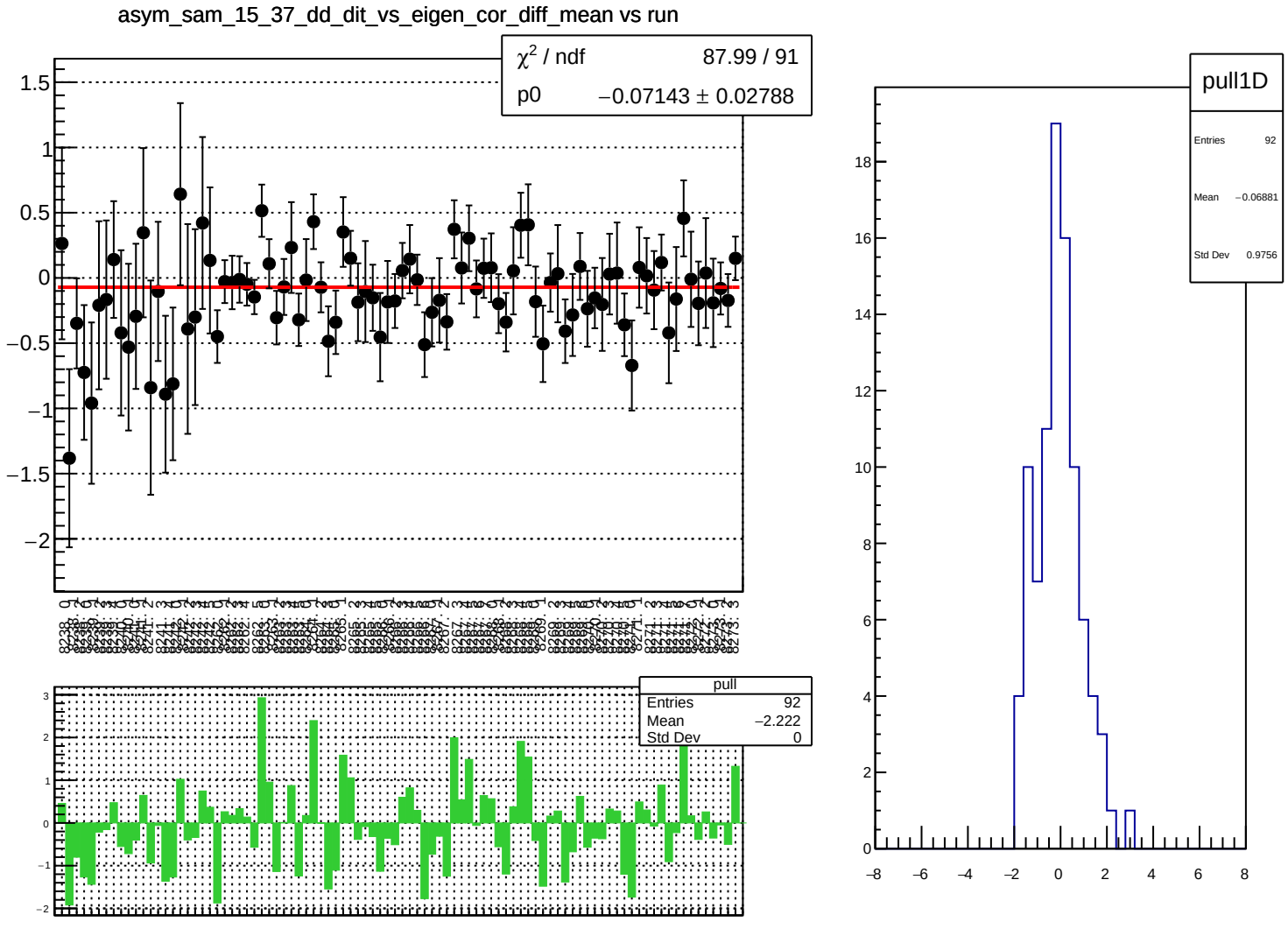

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.73 / 91
p0 8.825e−14 ± 8.613e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 101.5
Std Dev 0
2
1
0
−1
−2
−3

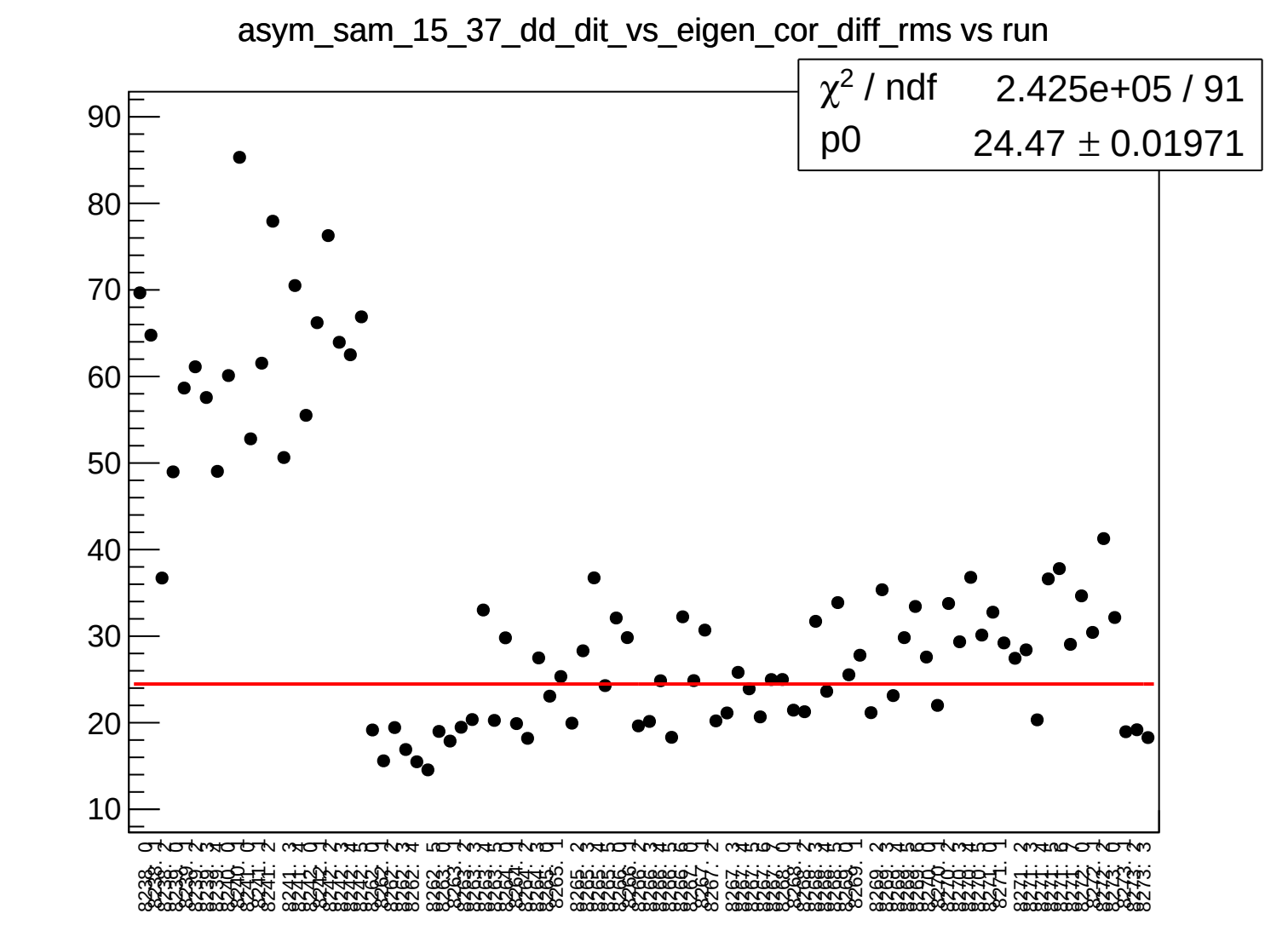

pull1D
Entries 92
Mean 0.06758
Std Dev 0.9516
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

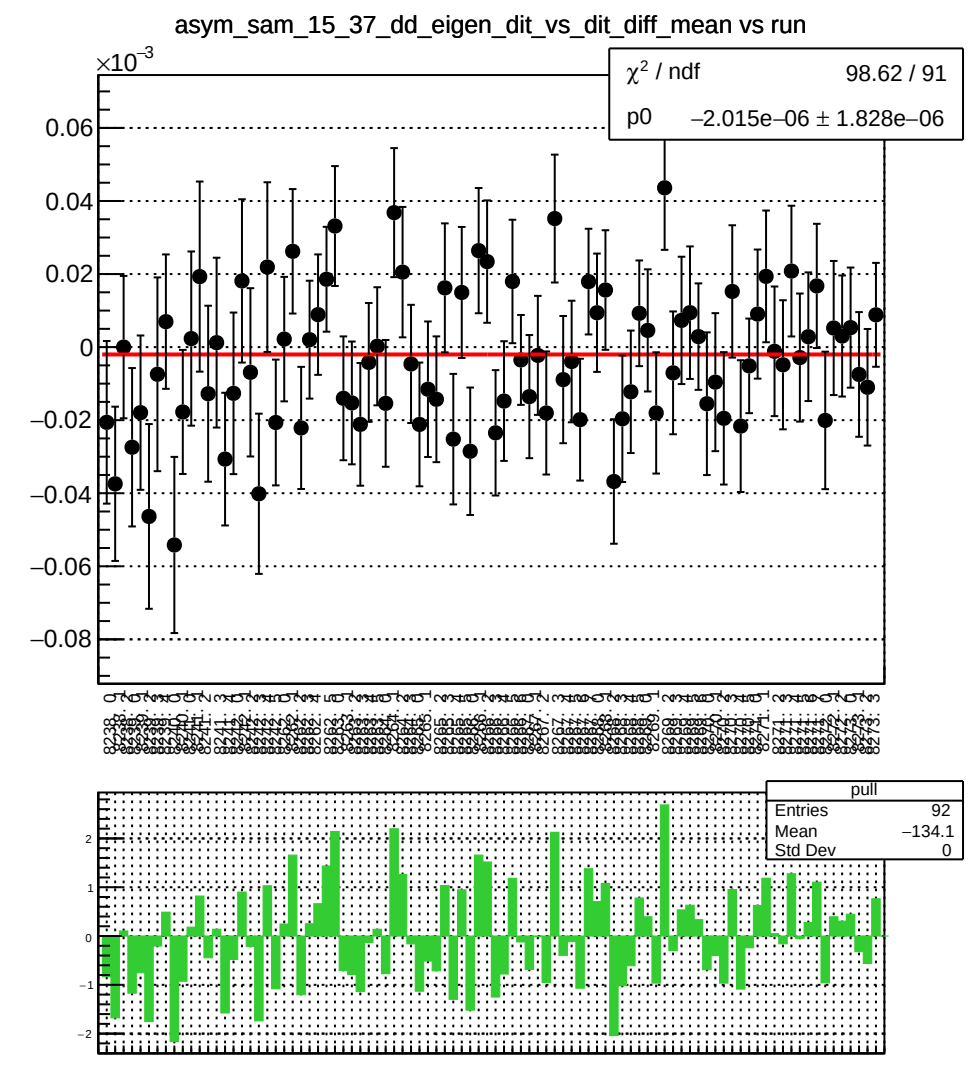

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.261e+05 / 91
p0 5.637e−11 ± 6.09e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

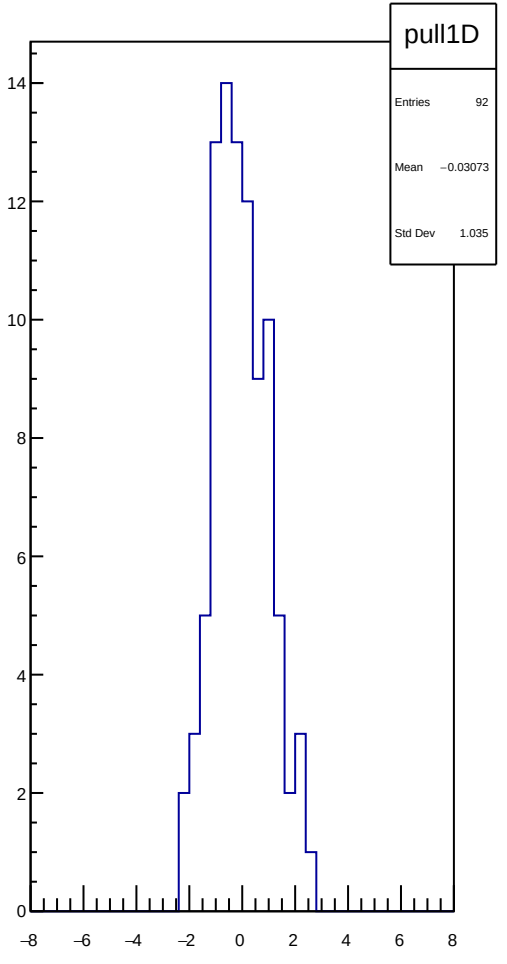

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.99 / 91
p0 −0.07143 ± 0.02788
pull
Entries 92
Mean −2.222
Std Dev 0
pull1D
Entries 92
Mean −0.06881
Std Dev 0.9756

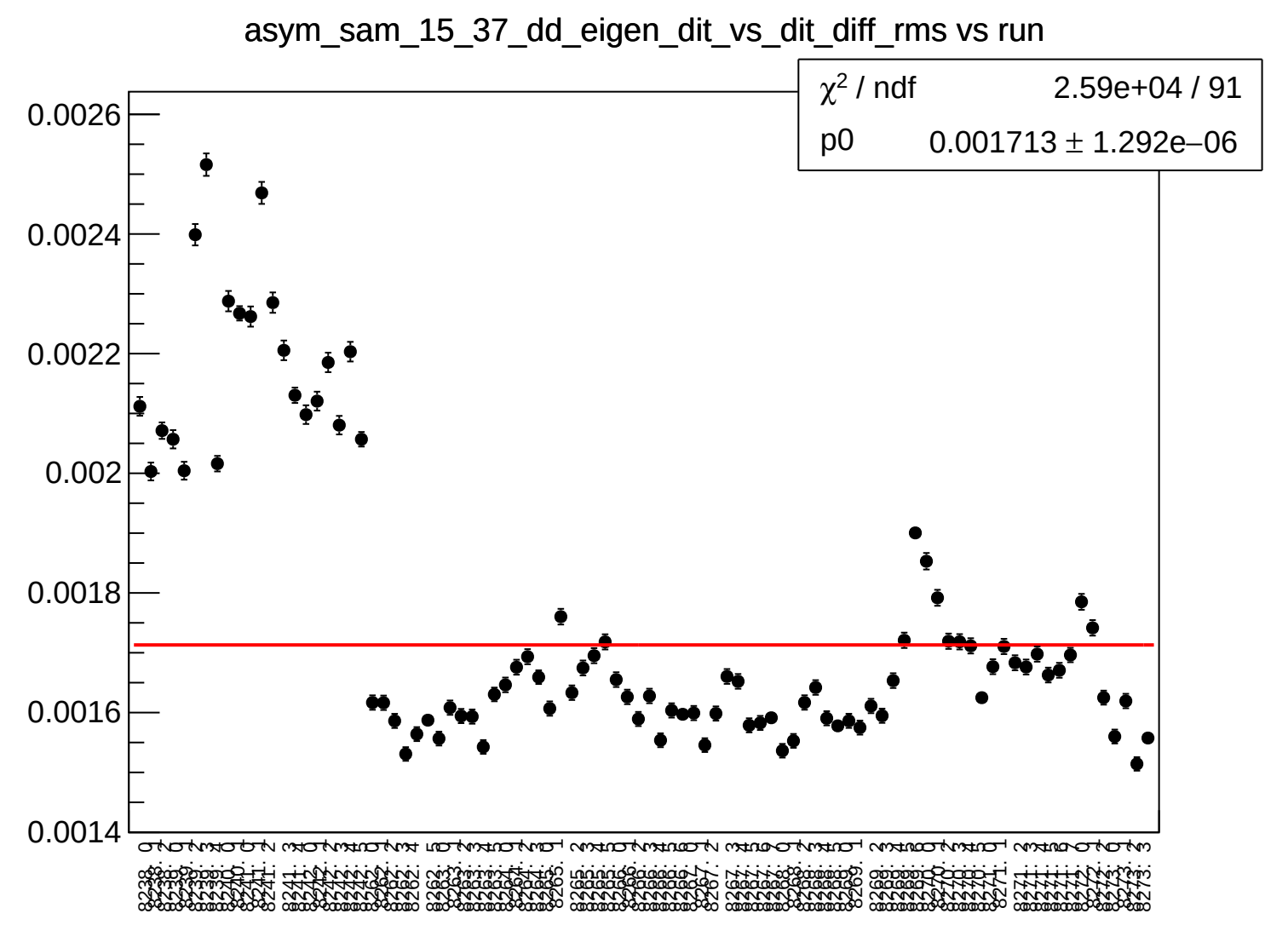

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 2.425e+05 / 91
p0 24.47 ± 0.01971
90
80
70
60
50
40
30
20
10

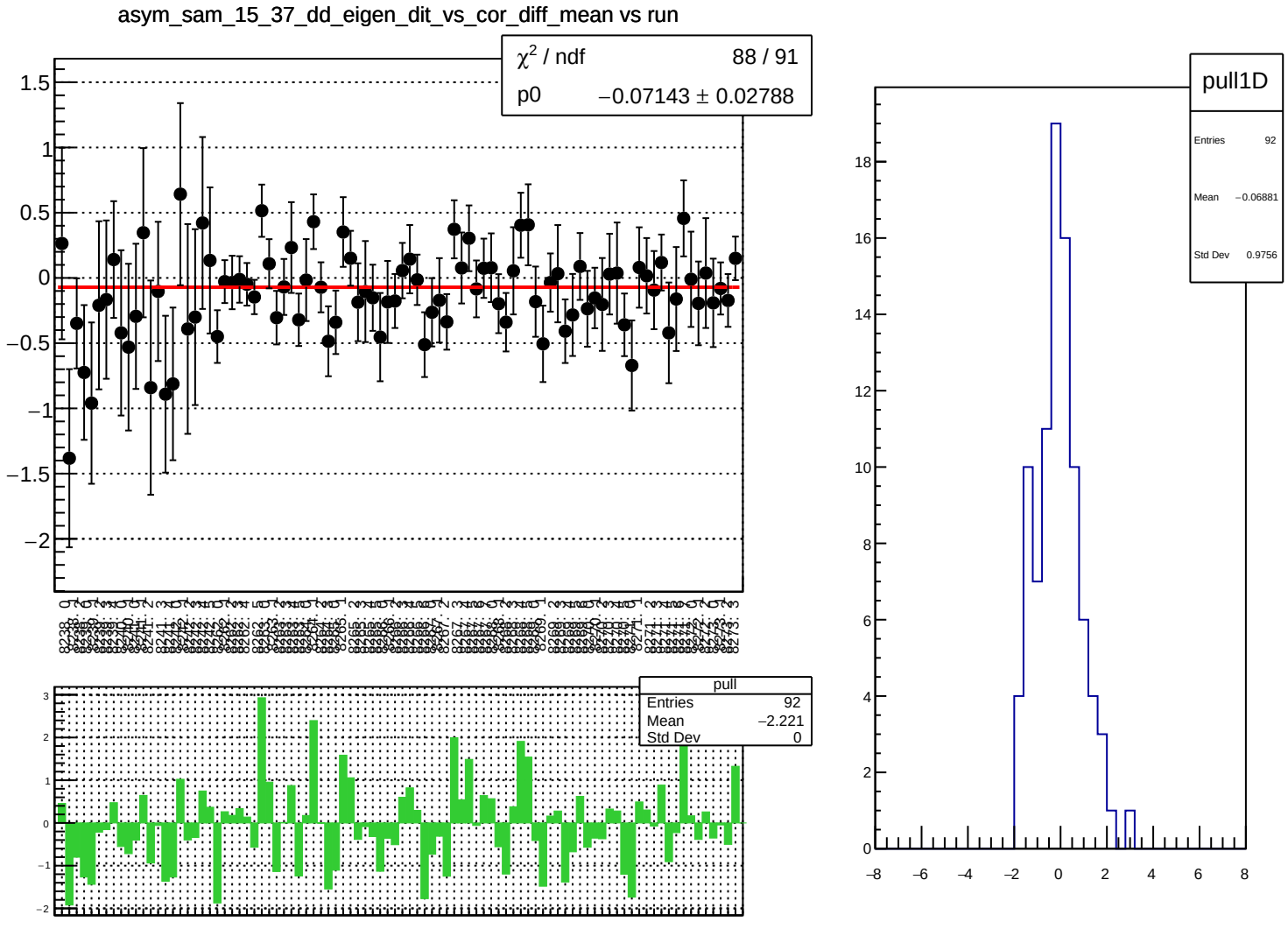

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.99 / 91
p0 −0.07143 ± 0.02788
pull
Entries 92
Mean −2.222
Std Dev 0
pull1D
Entries 92
Mean −0.06881
Std Dev 0.9756

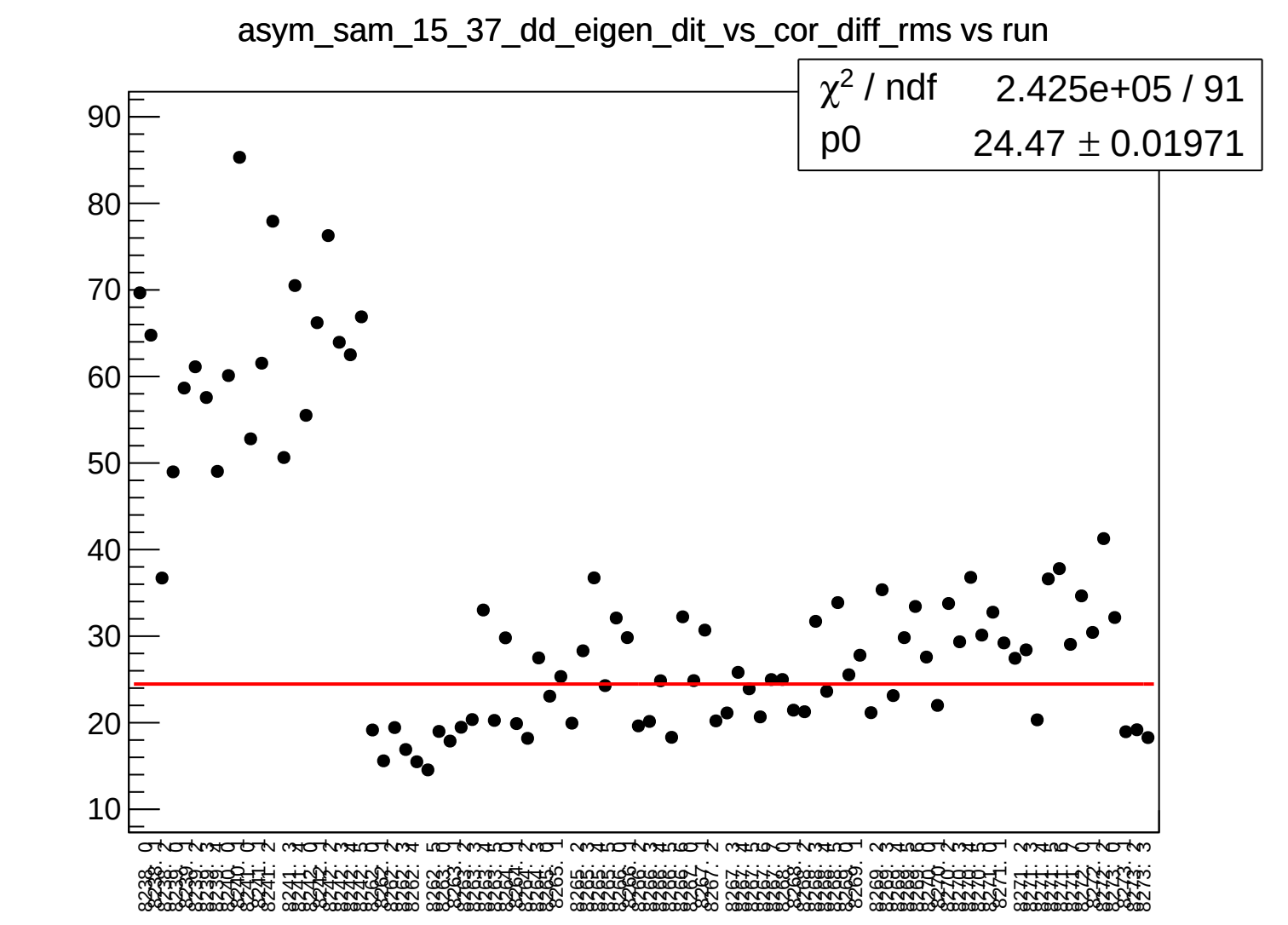

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.425e+05 / 91
p0 24.47 ± 0.01971
90
80
70
60
50
40
30
20
10

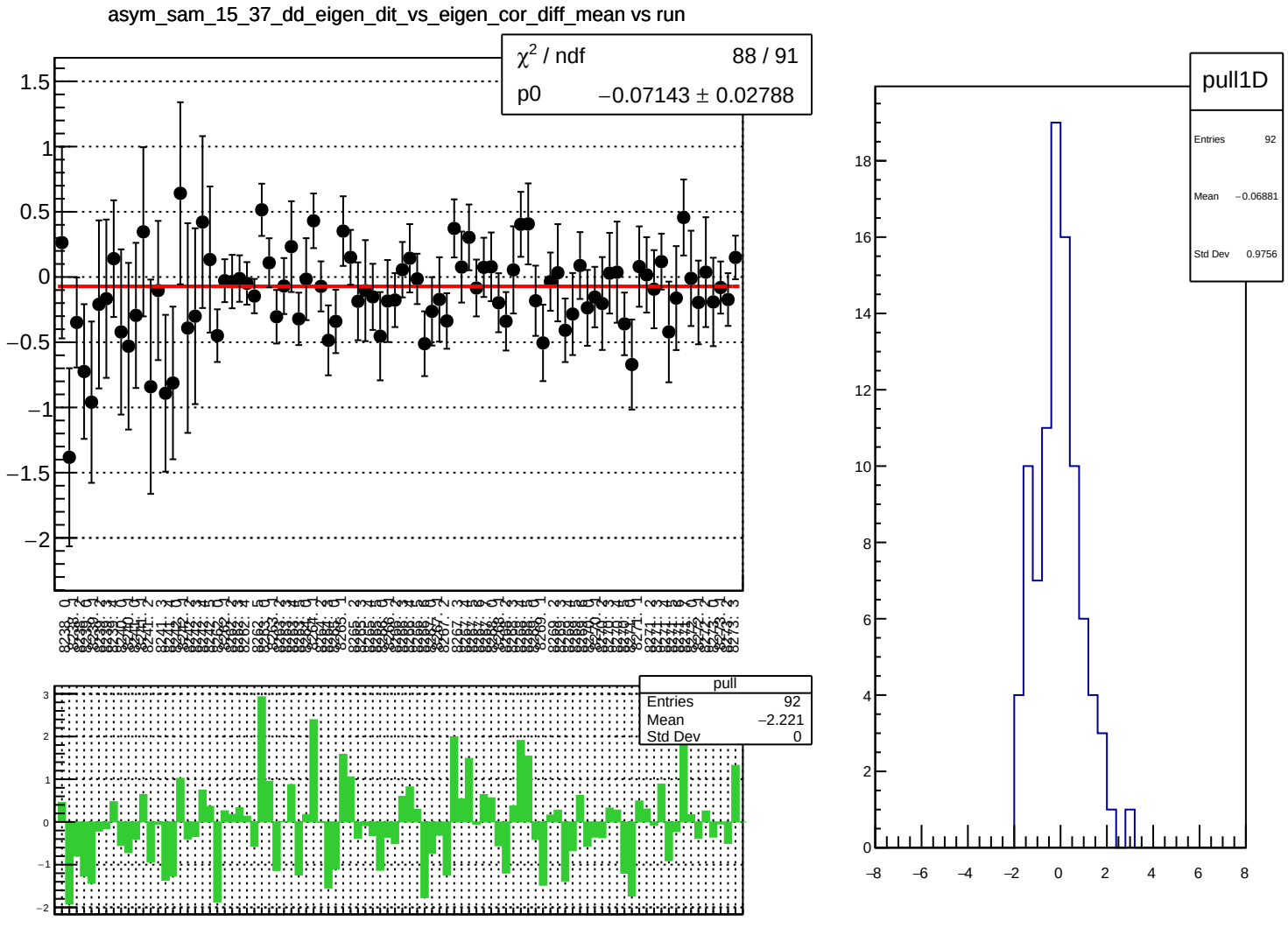

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 98.62 / 91
p0 −2.015e−06 ± 1.828e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 92
Mean −134.1
Std Dev 0
2
1
0
−1
−2

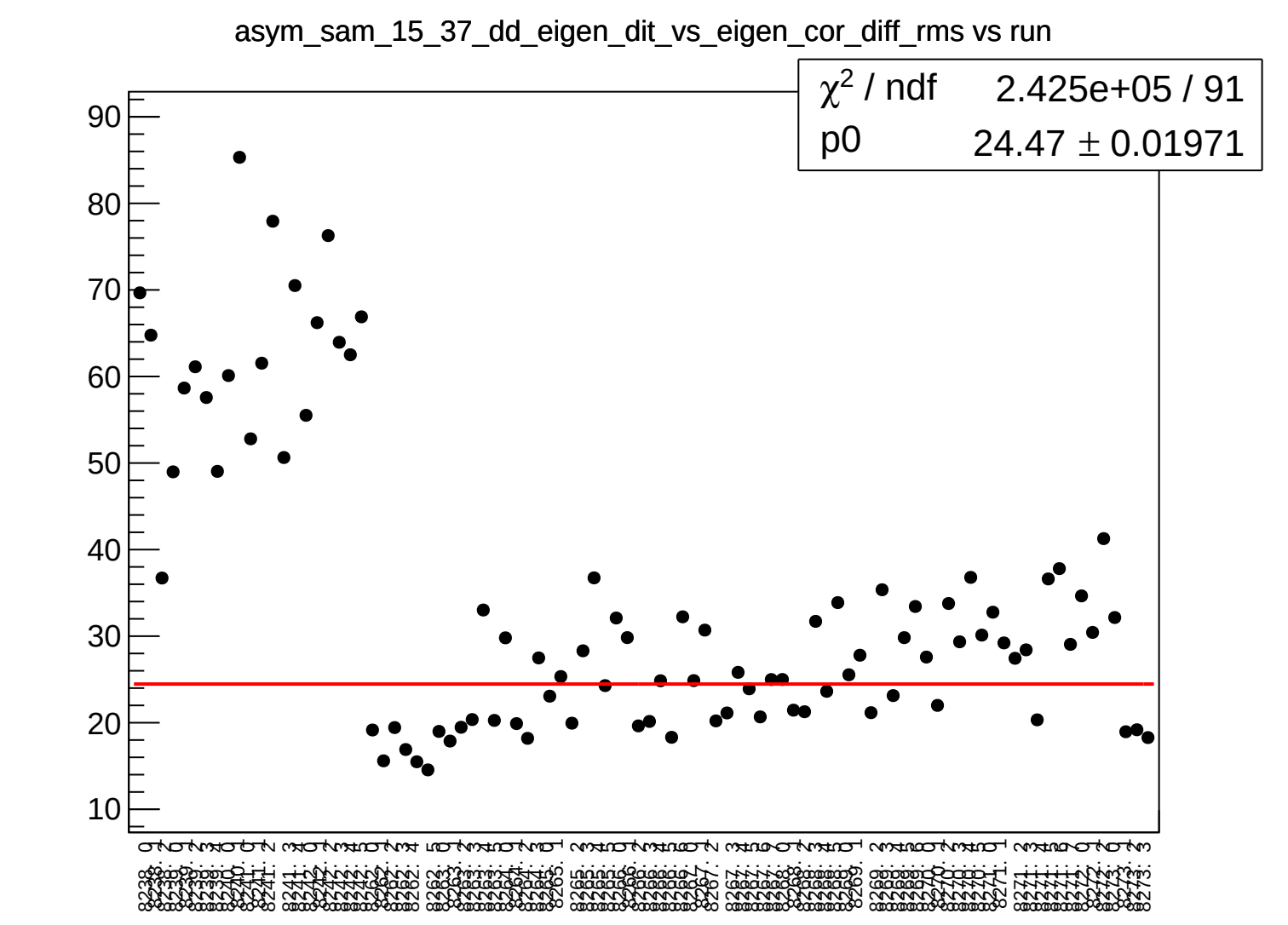

pull1D
Entries 92
Mean −0.03073
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

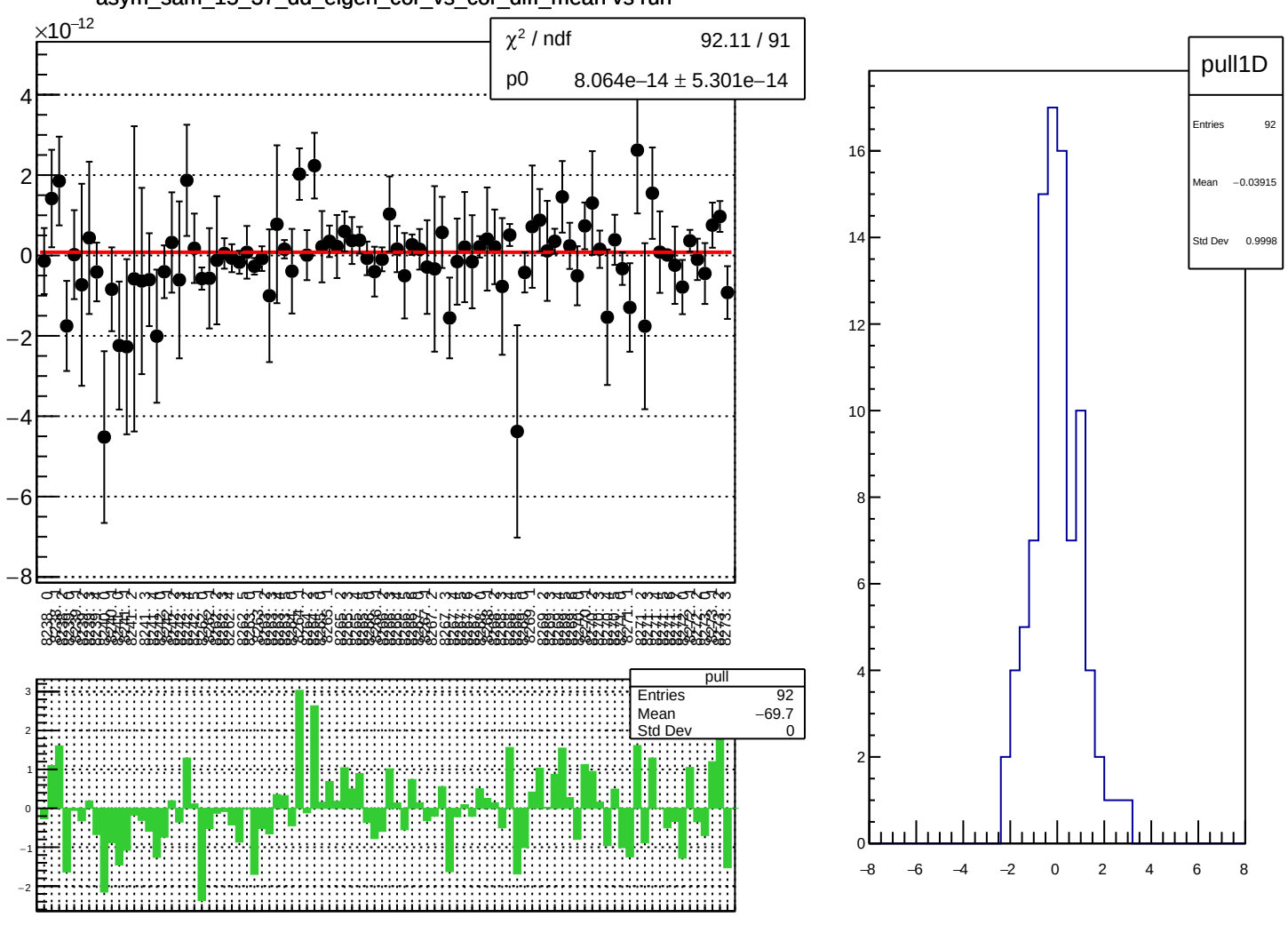

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.59e+04 / 91
p0 0.001713 ± 1.292e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

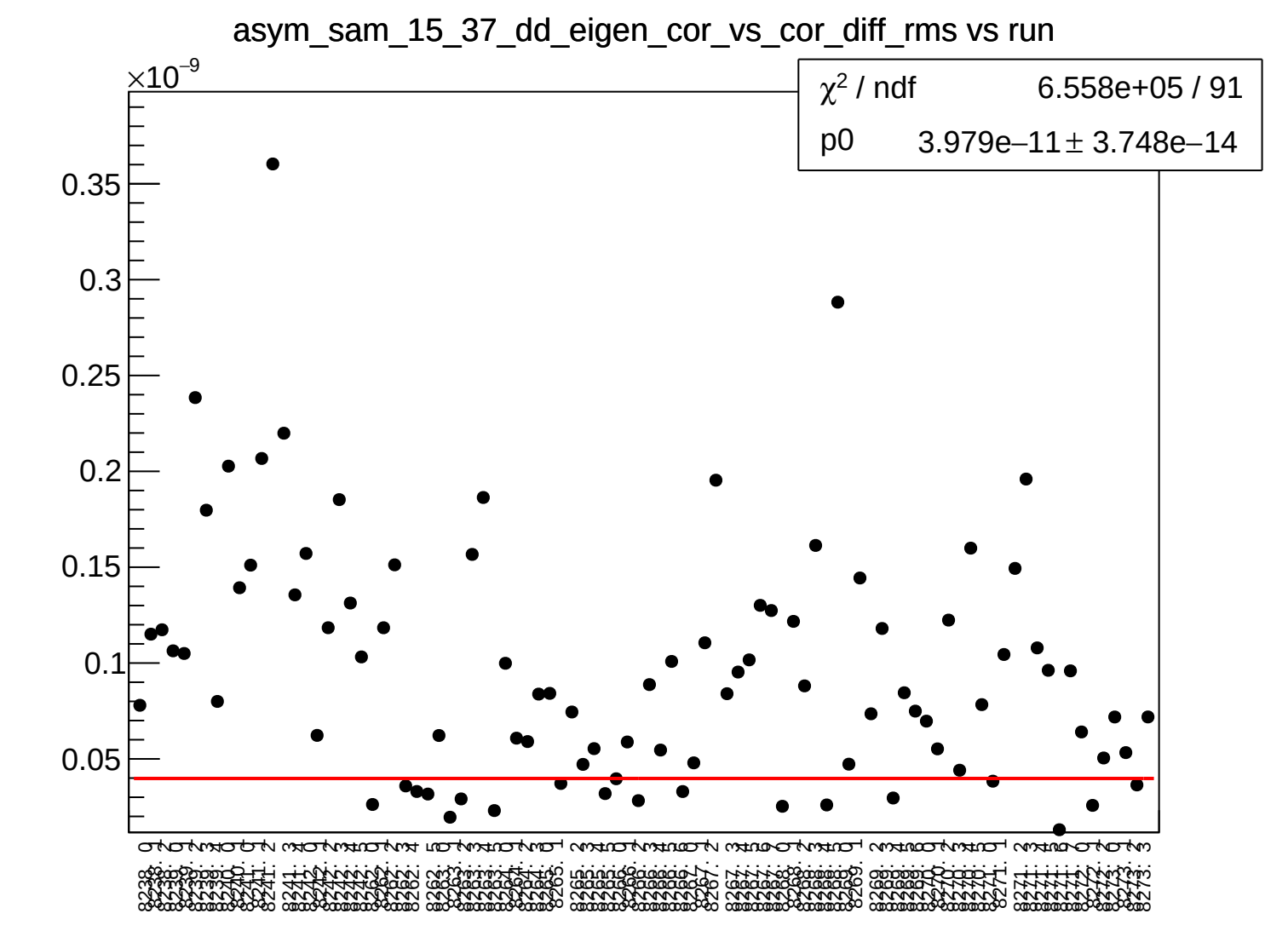

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88 / 91
p0 −0.07143 ± 0.02788
pull
Entries 92
Mean −2.221
Std Dev 0
pull1D
Entries 92
Mean −0.06881
Std Dev 0.9756

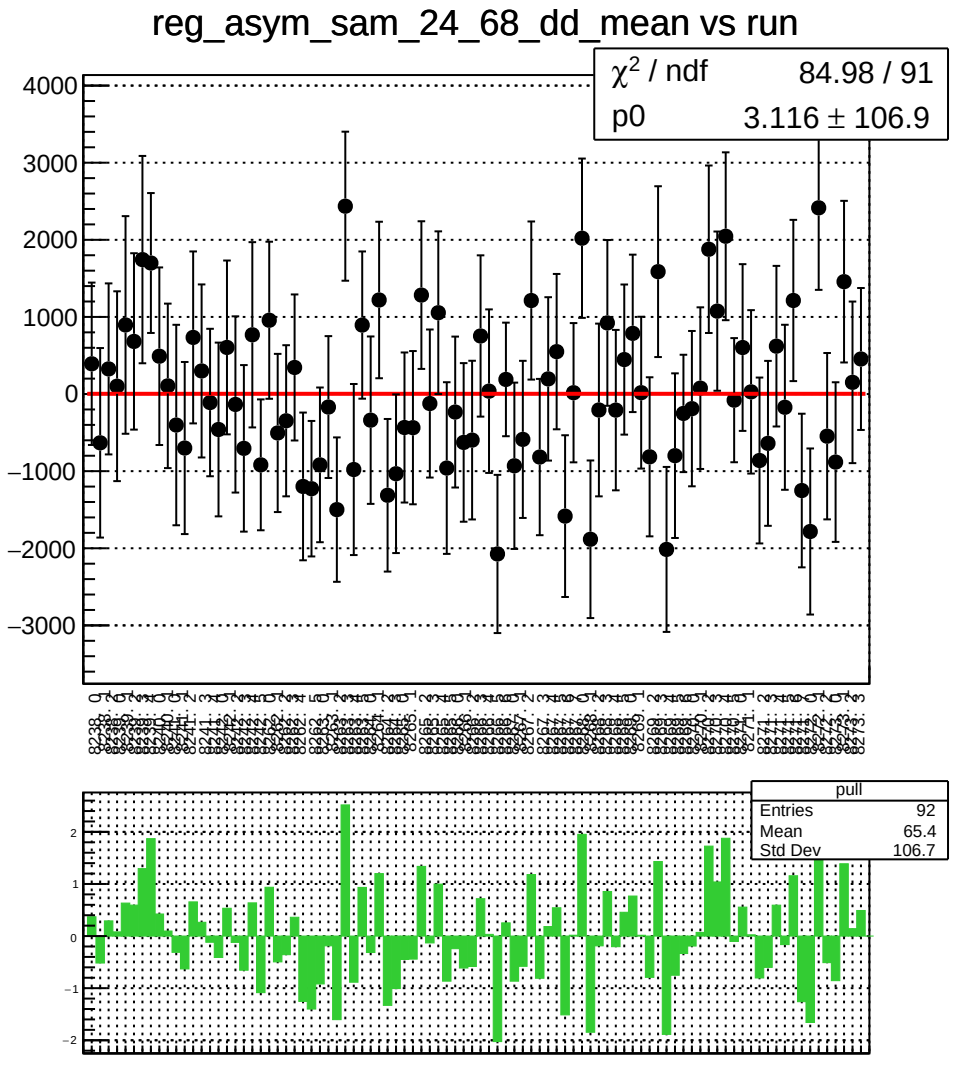

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 2.425e+05 / 91
p0 24.47 ± 0.01971
90
80
70
60
50
40
30
20
10

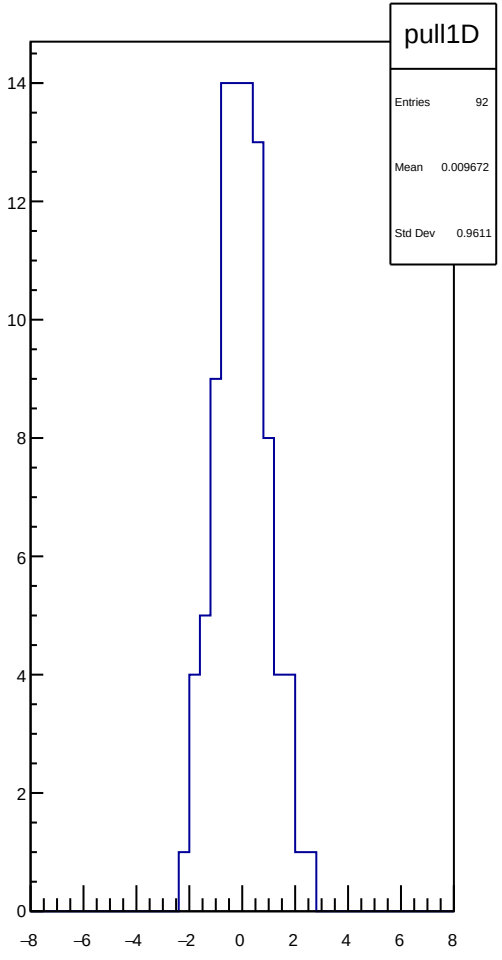

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88 / 91
p0 −0.07143 ± 0.02788
pull
Entries 92
Mean −2.221
Std Dev 0
pull1D
Entries 92
Mean −0.06881
Std Dev 0.9756

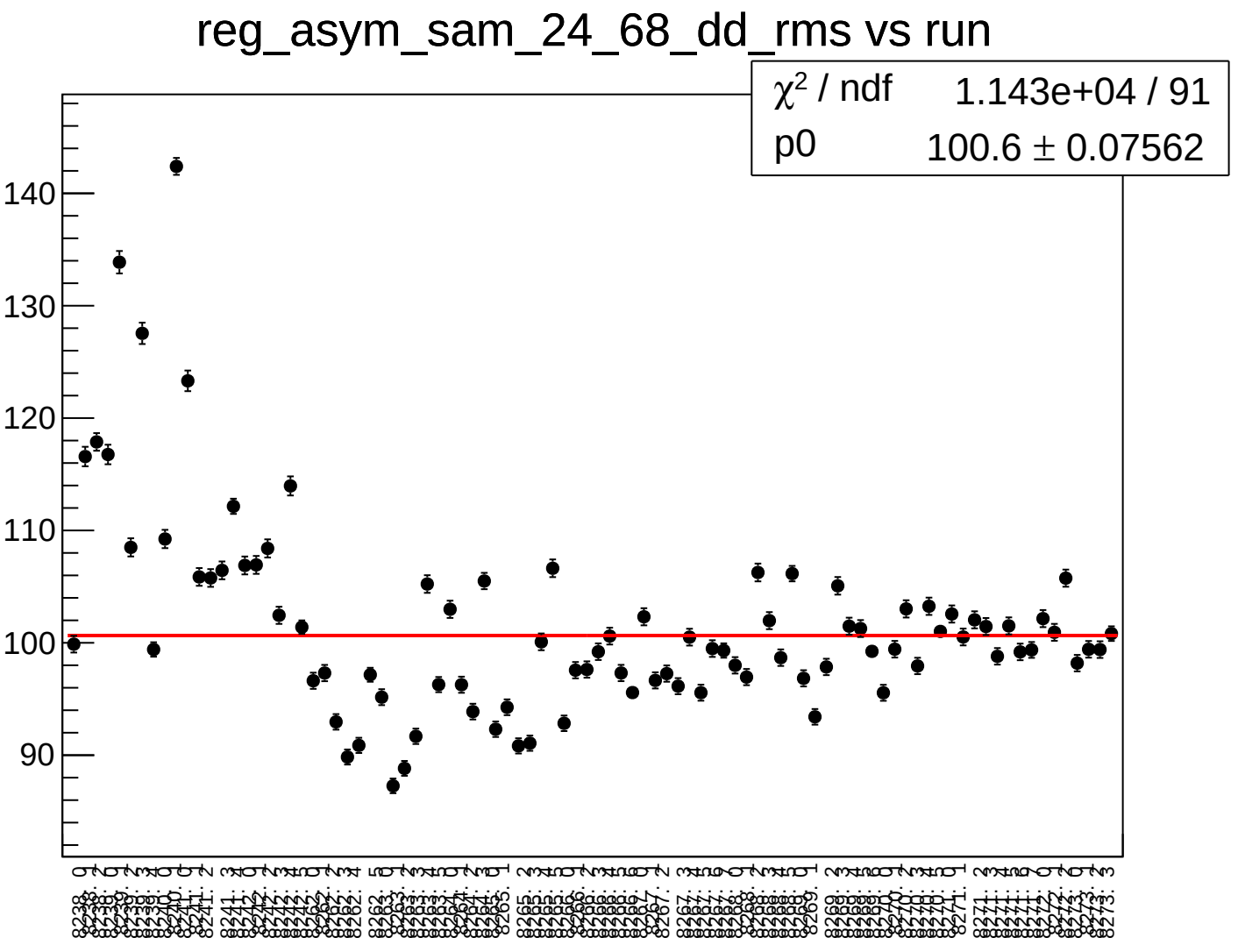

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.425e+05 / 91
p0 24.47 ± 0.01971
90
80
70
60
50
40
30
20
10

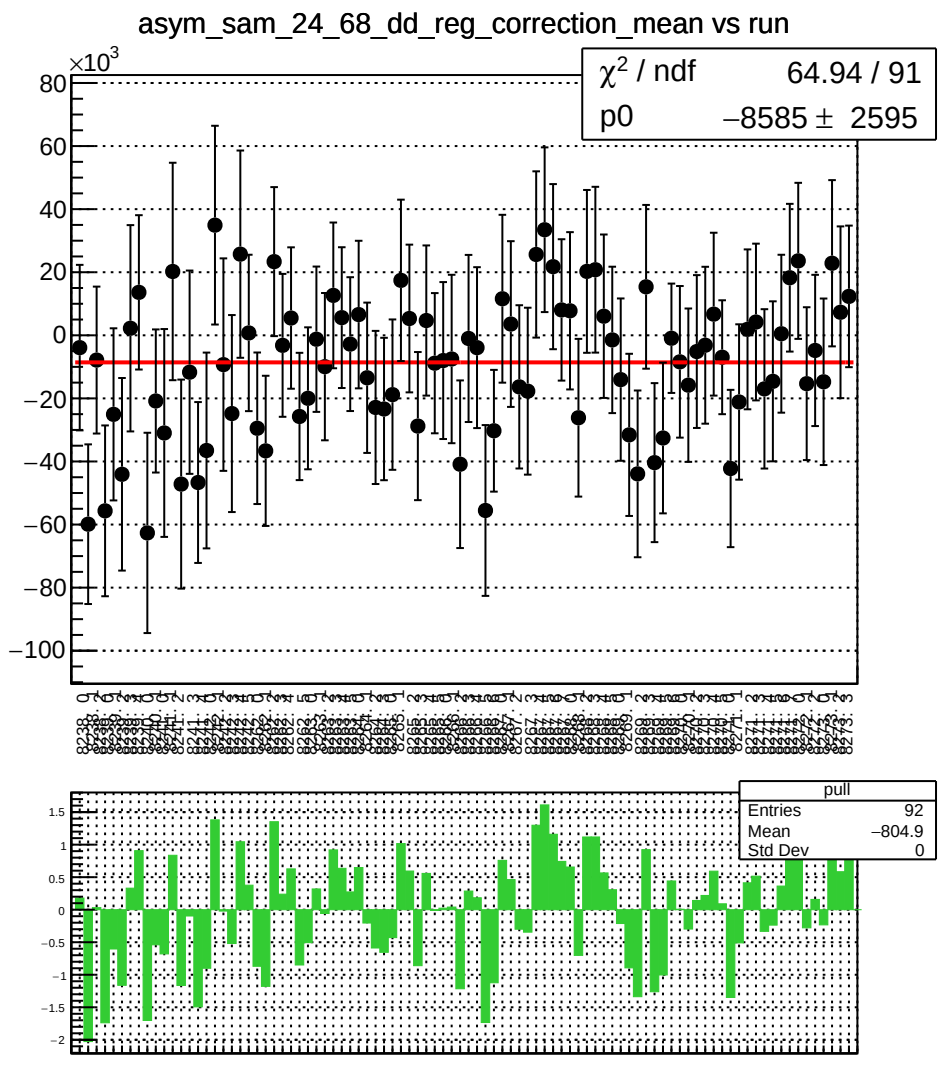

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.11 / 91
p0 8.064e−14 ± 5.301e−14
pull
Entries 92
Mean −69.7
Std Dev 0
pull1D
Entries 92
Mean −0.03915
Std Dev 0.9998

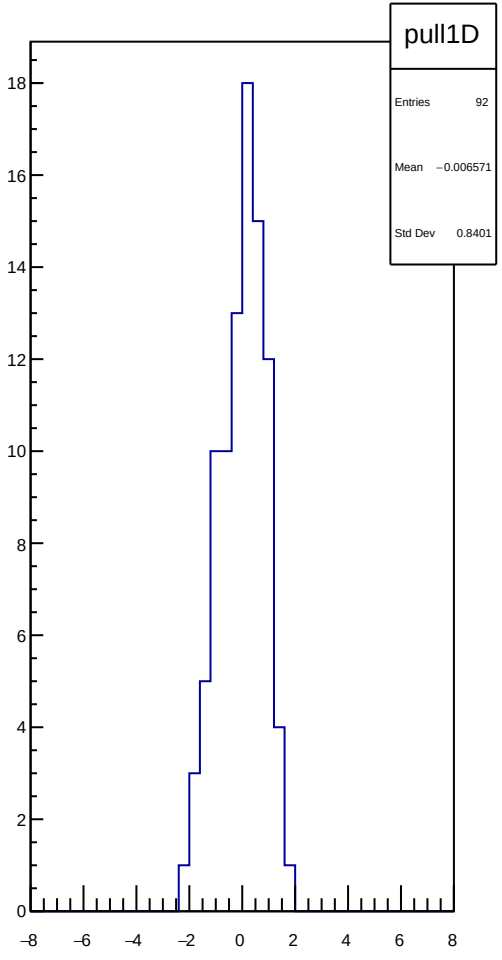

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.558e+05 / 91
p0 3.979e−11 ± 3.748e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

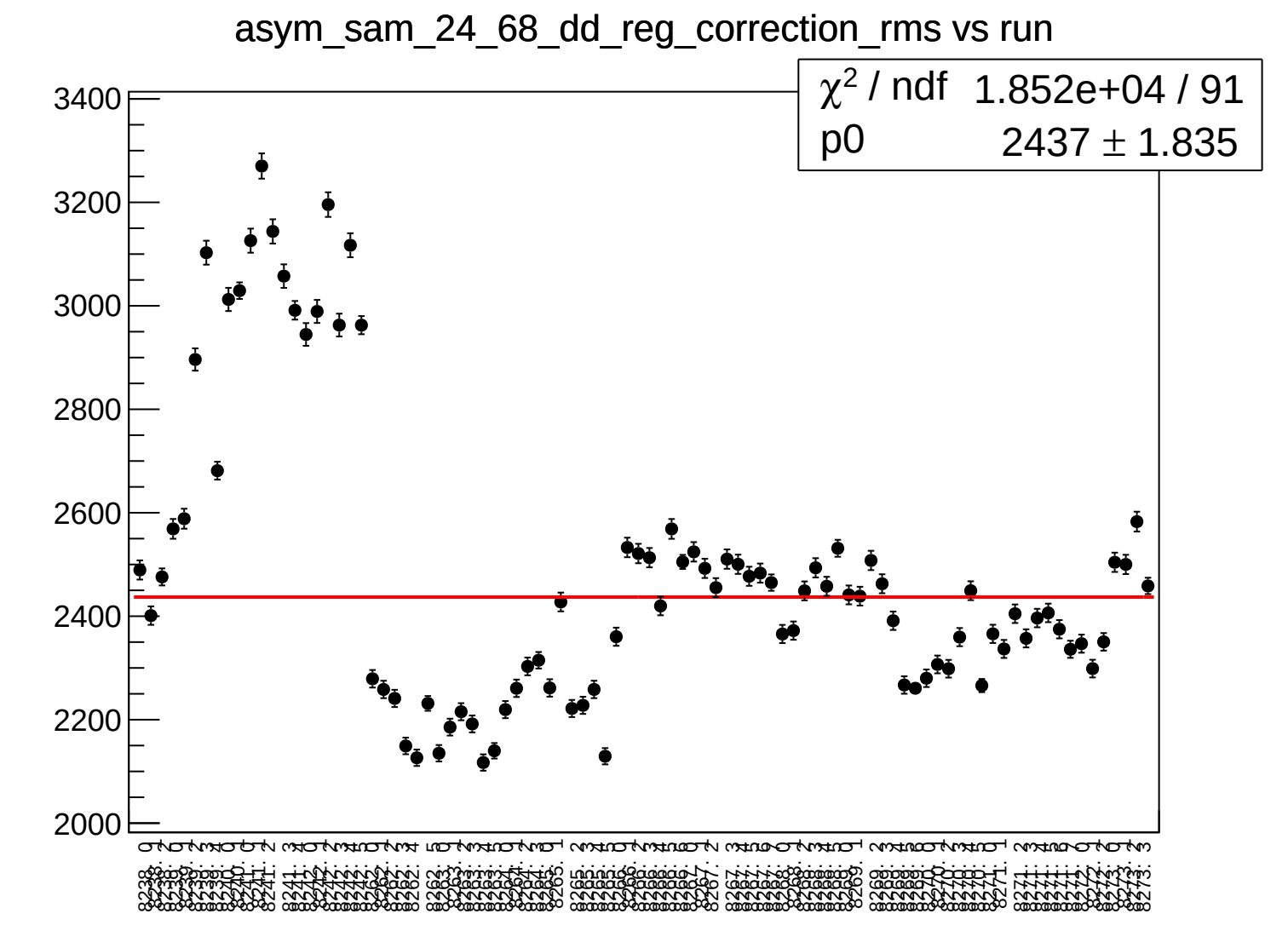

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 84.98 / 91
p0 3.116 ± 106.9
pull
Entries 92
Mean 65.4
Std Dev 106.7

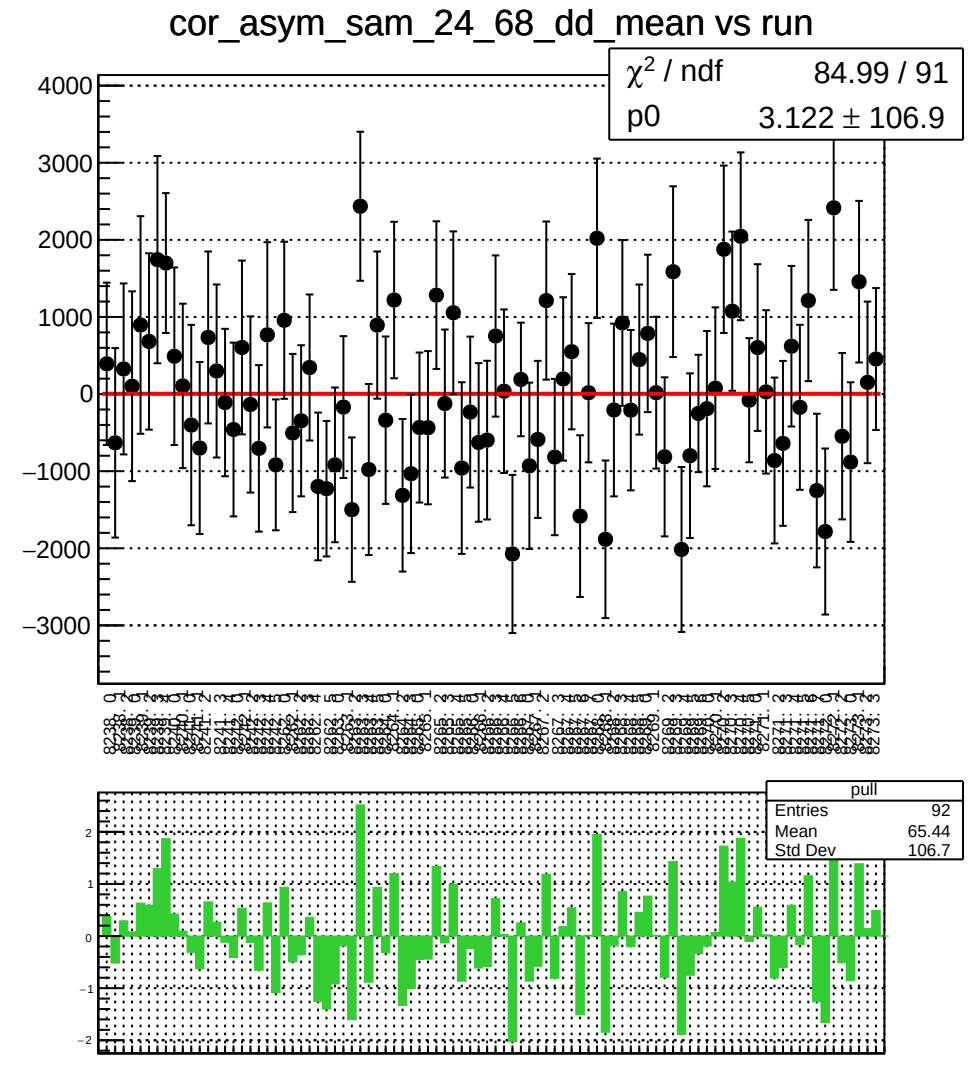

pull1D
Entries 92
Mean 0.009672
Std Dev 0.9611

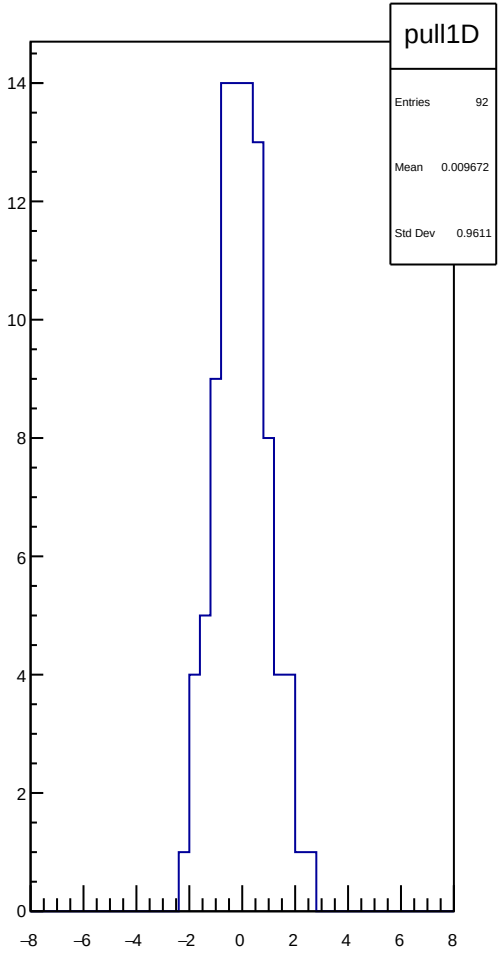

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.143e+04 / 91
p0 100.6 ± 0.07562
140
130
120
110
100
90

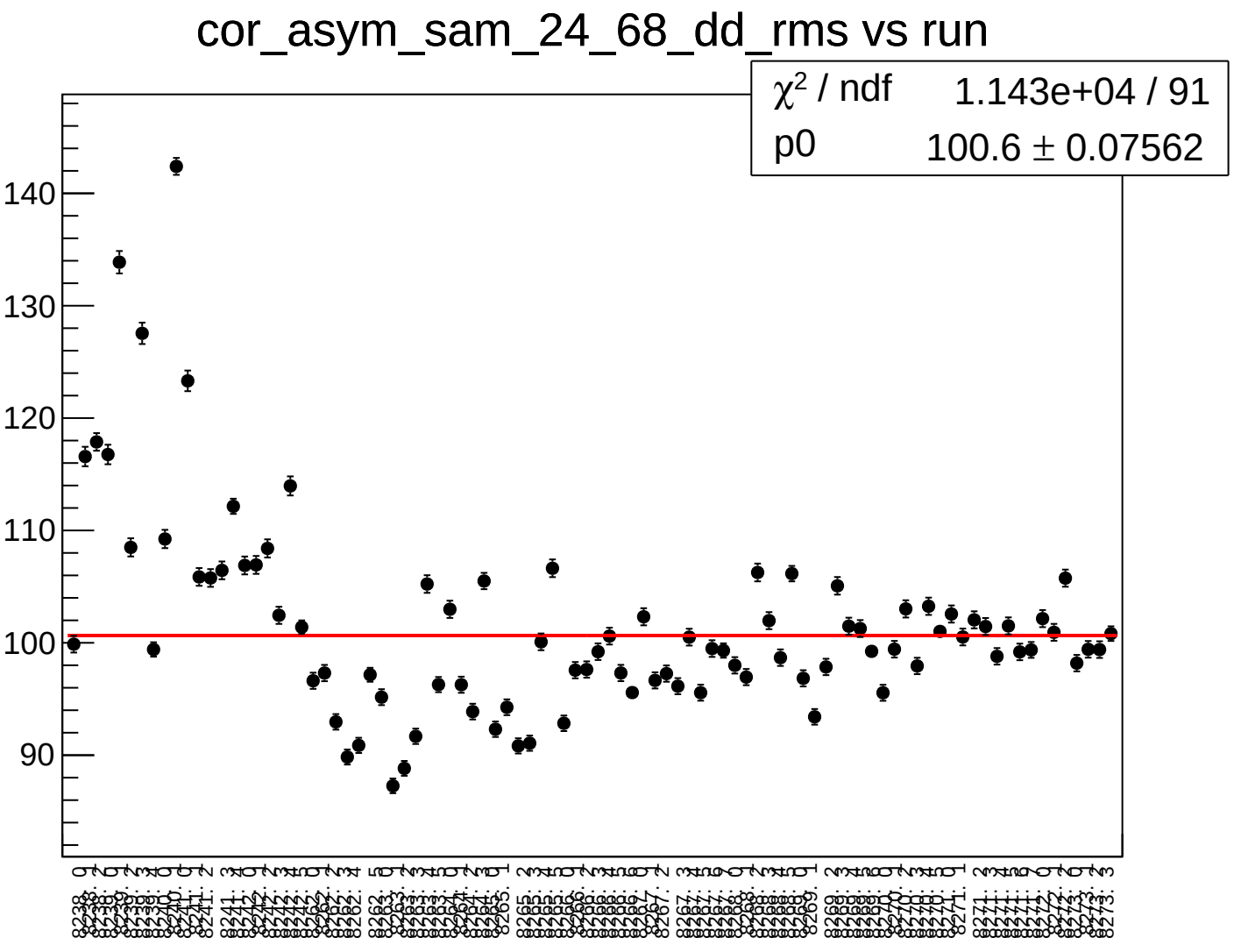

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 64.94 / 91
p0 −8585 ± 2595
×10³
pull
Entries 92
Mean −804.9
Std Dev 0

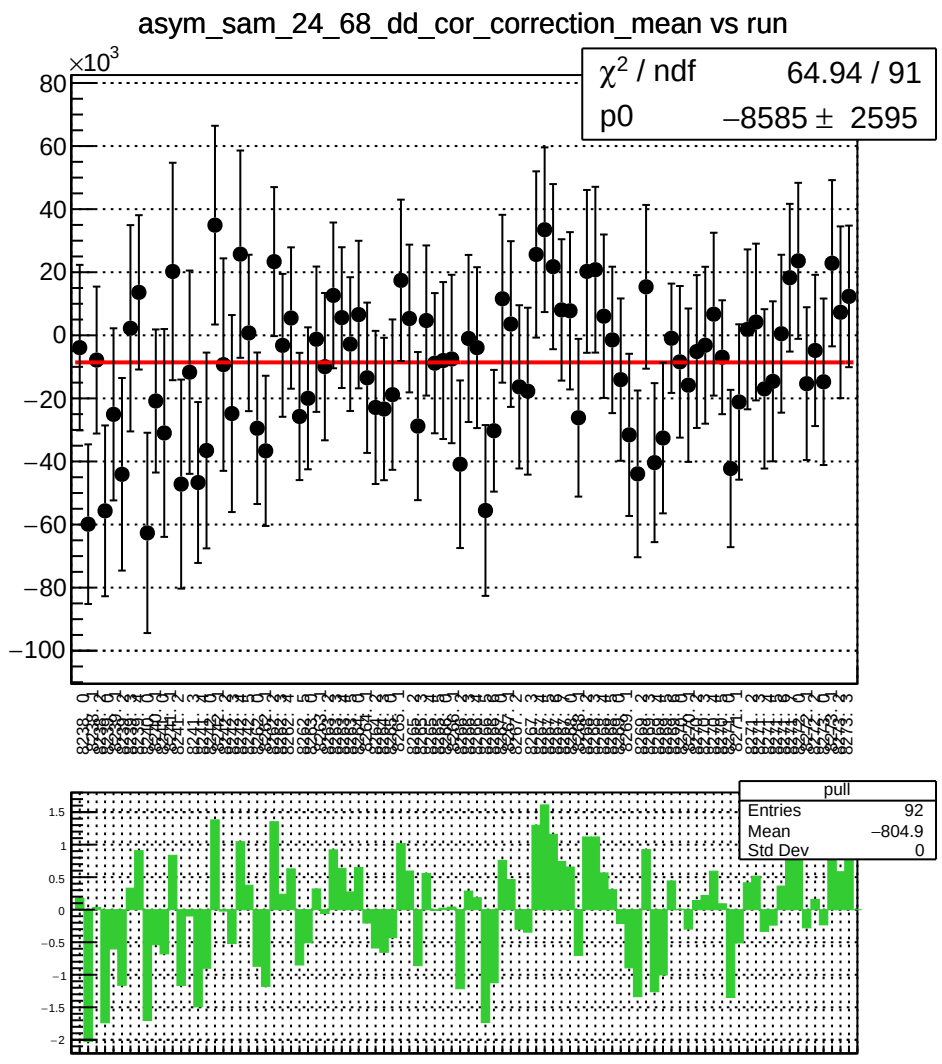

pull1D
Entries 92
Mean −0.006571
Std Dev 0.8401

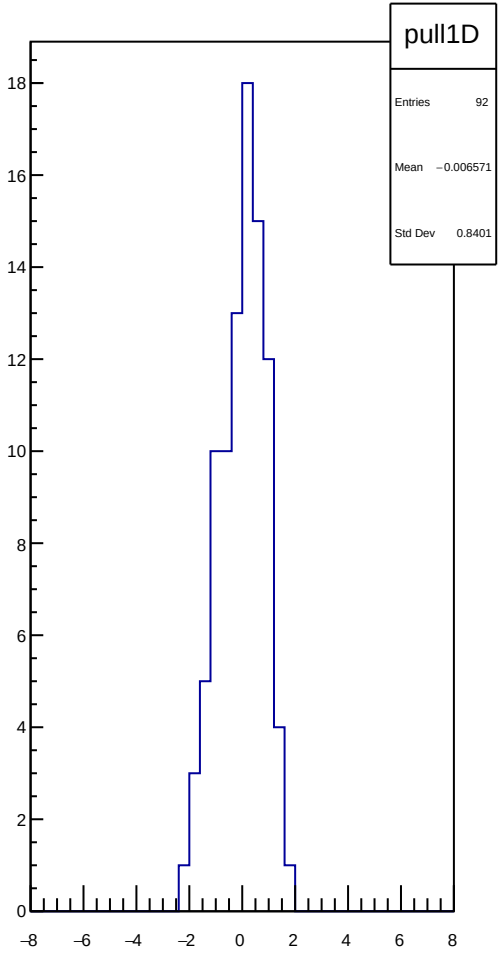

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 1.852e+04 / 91
p0 2437 ± 1.835
3400
3200
3000
2800
2600
2400
2200
2000

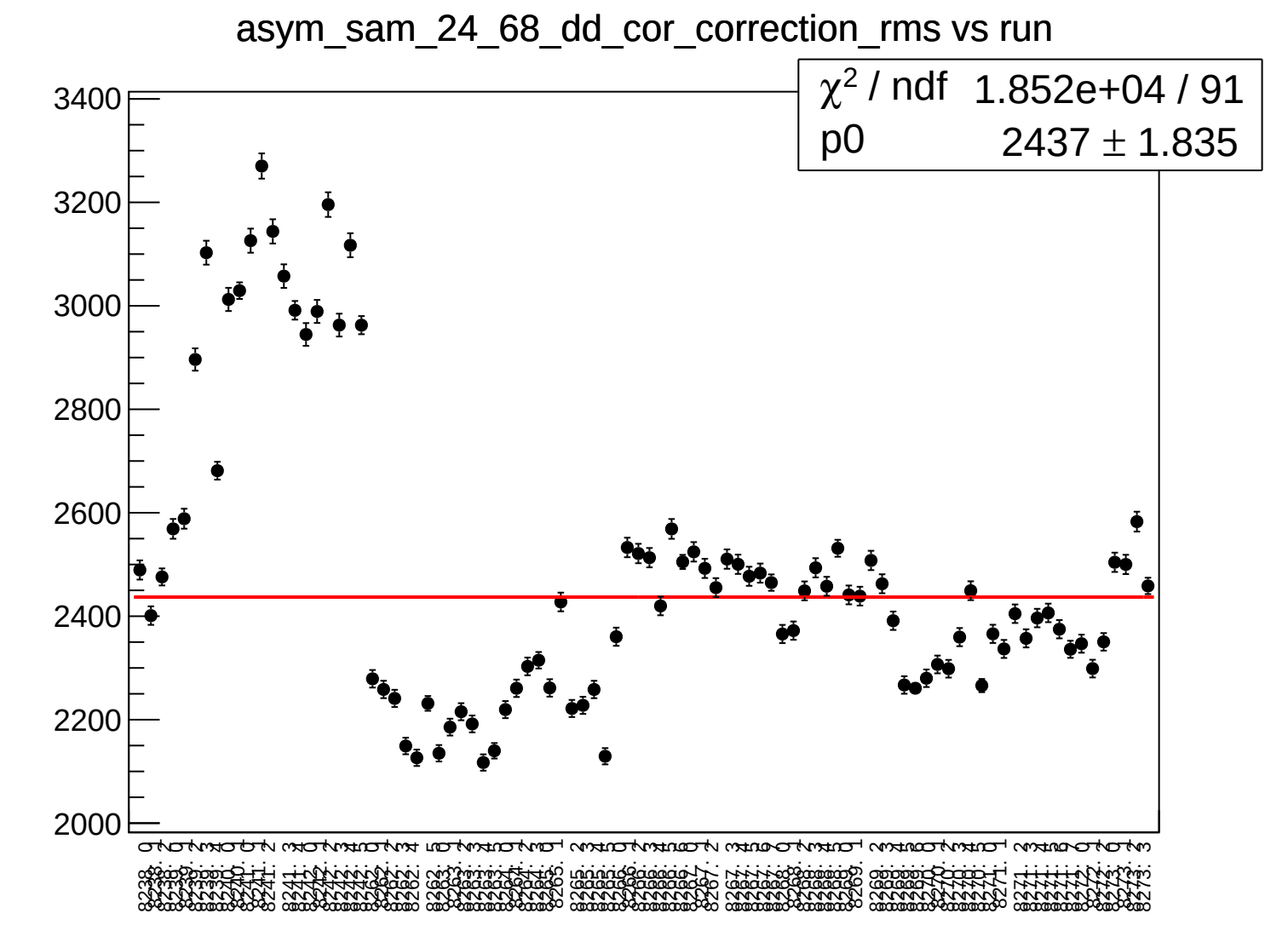

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 84.99 / 91
p0 3.122 ± 106.9
pull
Entries 92
Mean 65.44
Std Dev 106.7

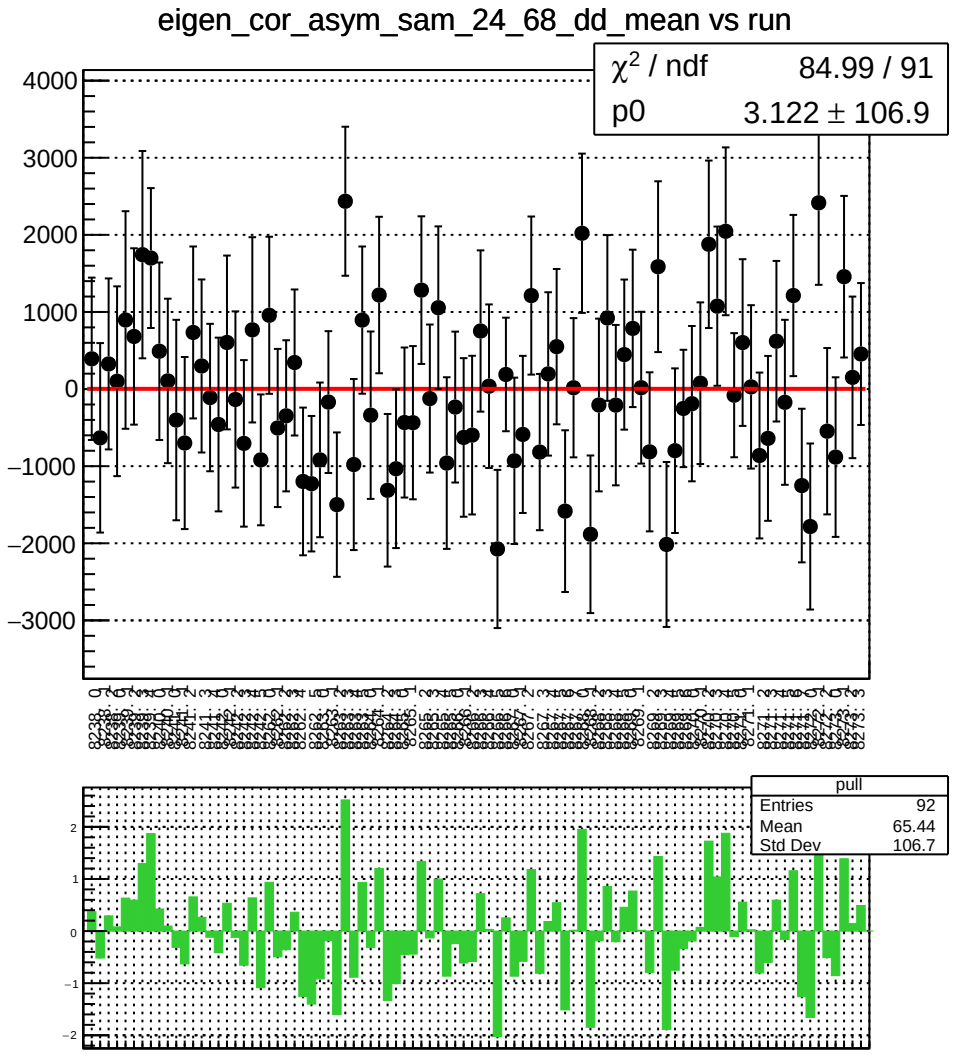

pull1D
Entries 92
Mean 0.009672
Std Dev 0.9611

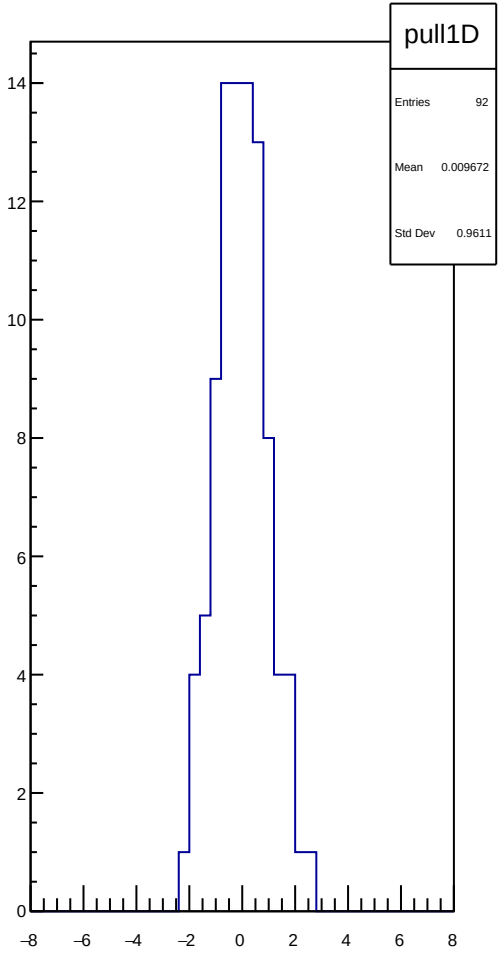

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.143e+04 / 91
p0 100.6 ± 0.07562
140
130
120
110
100
90

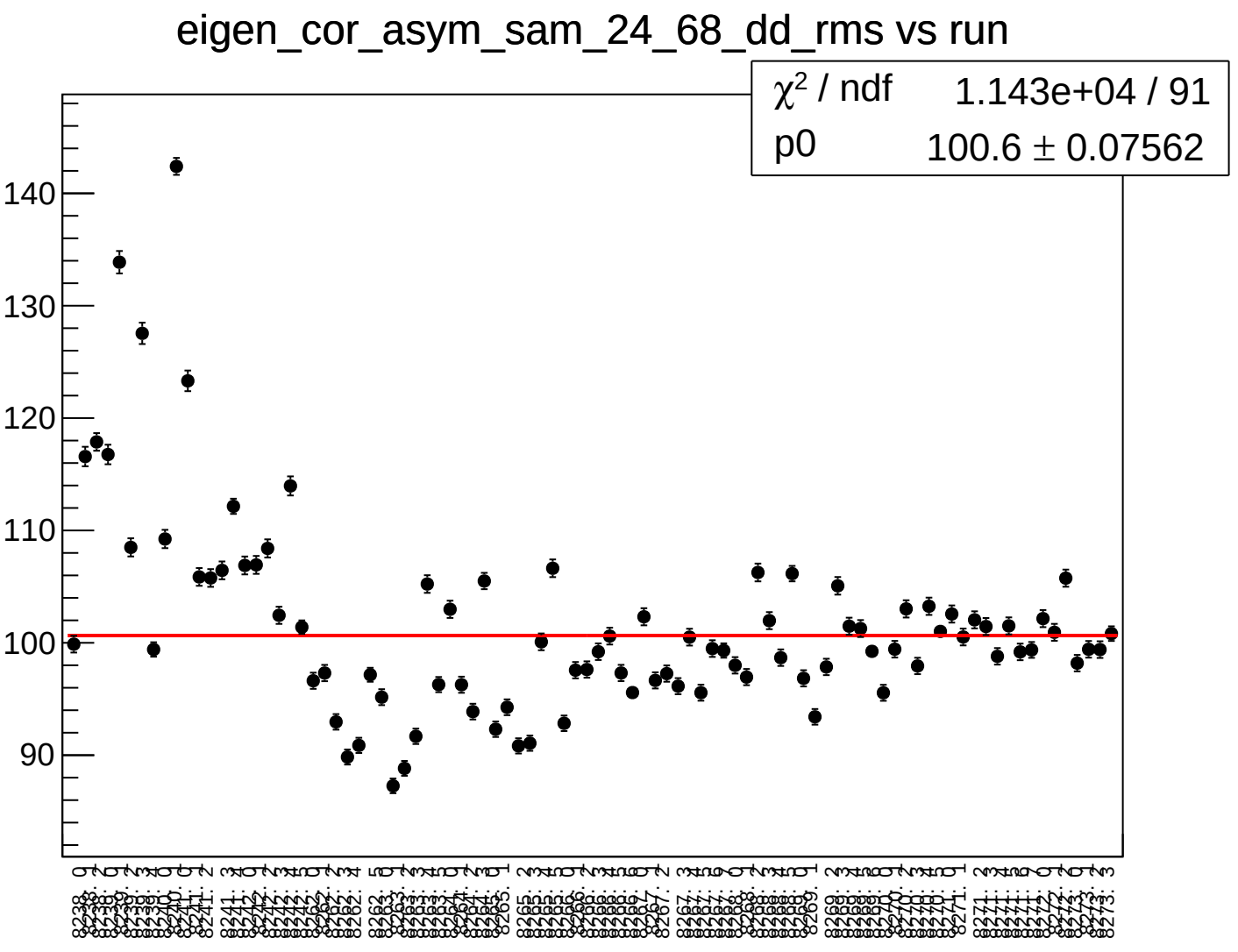

asym_sam_24_68_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 64.94 / 91
p0 −8585 ± 2595
pull
Entries 92
Mean −804.9
Std Dev 0

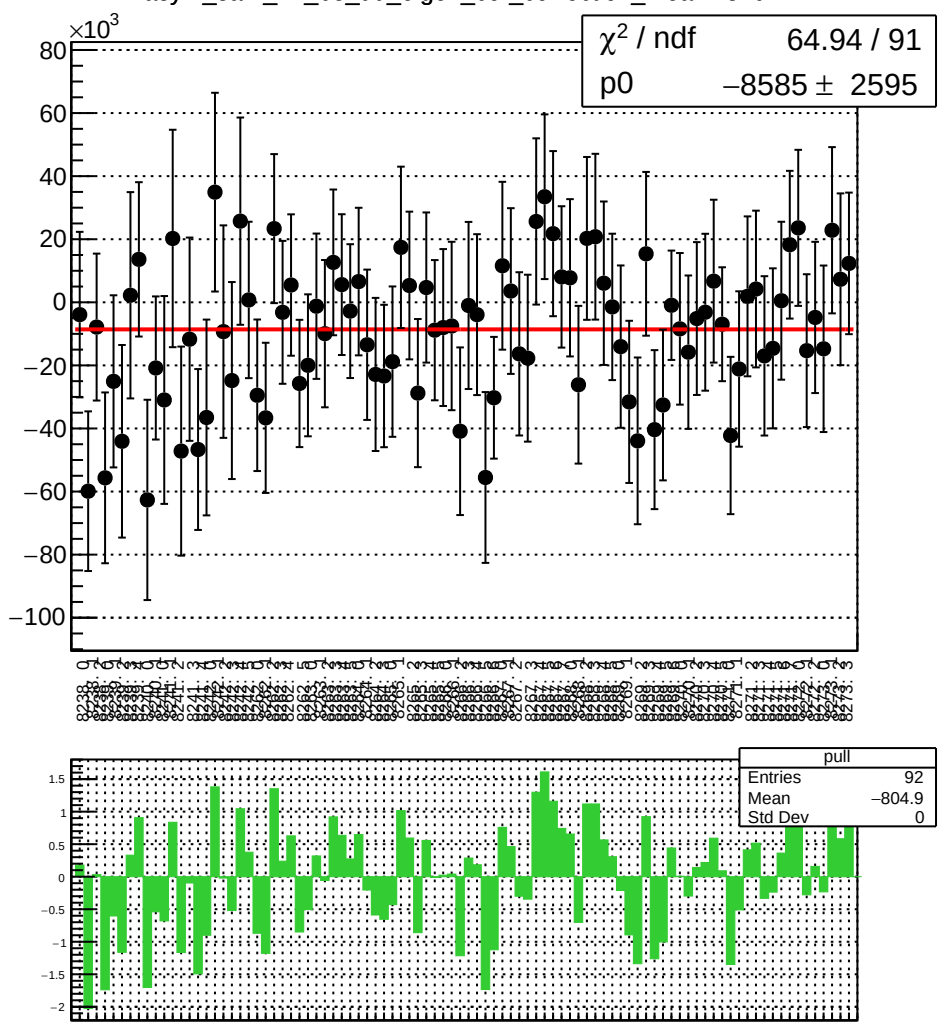

pull1D
Entries 92
Mean −0.006571
Std Dev 0.8401

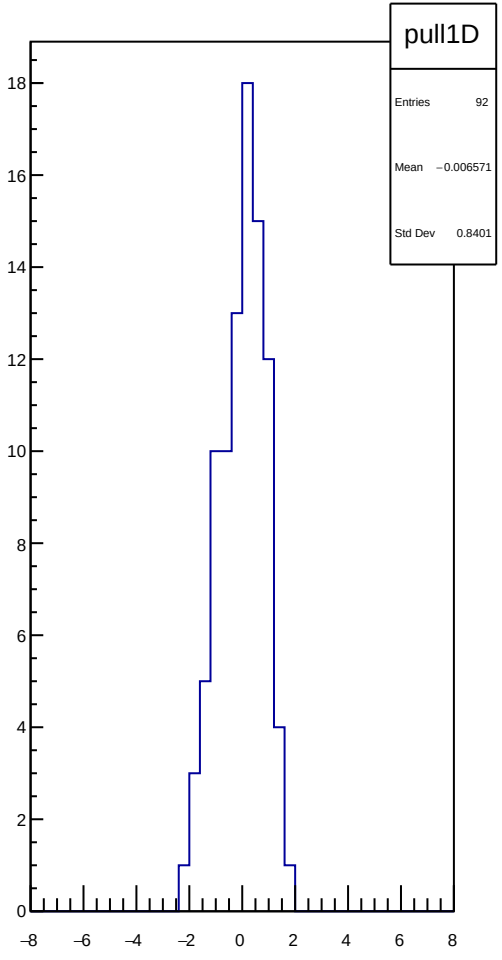

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 1.852e+04 / 91
p0 2437 ± 1.835
3400
3200
3000
2800
2600
2400
2200
2000

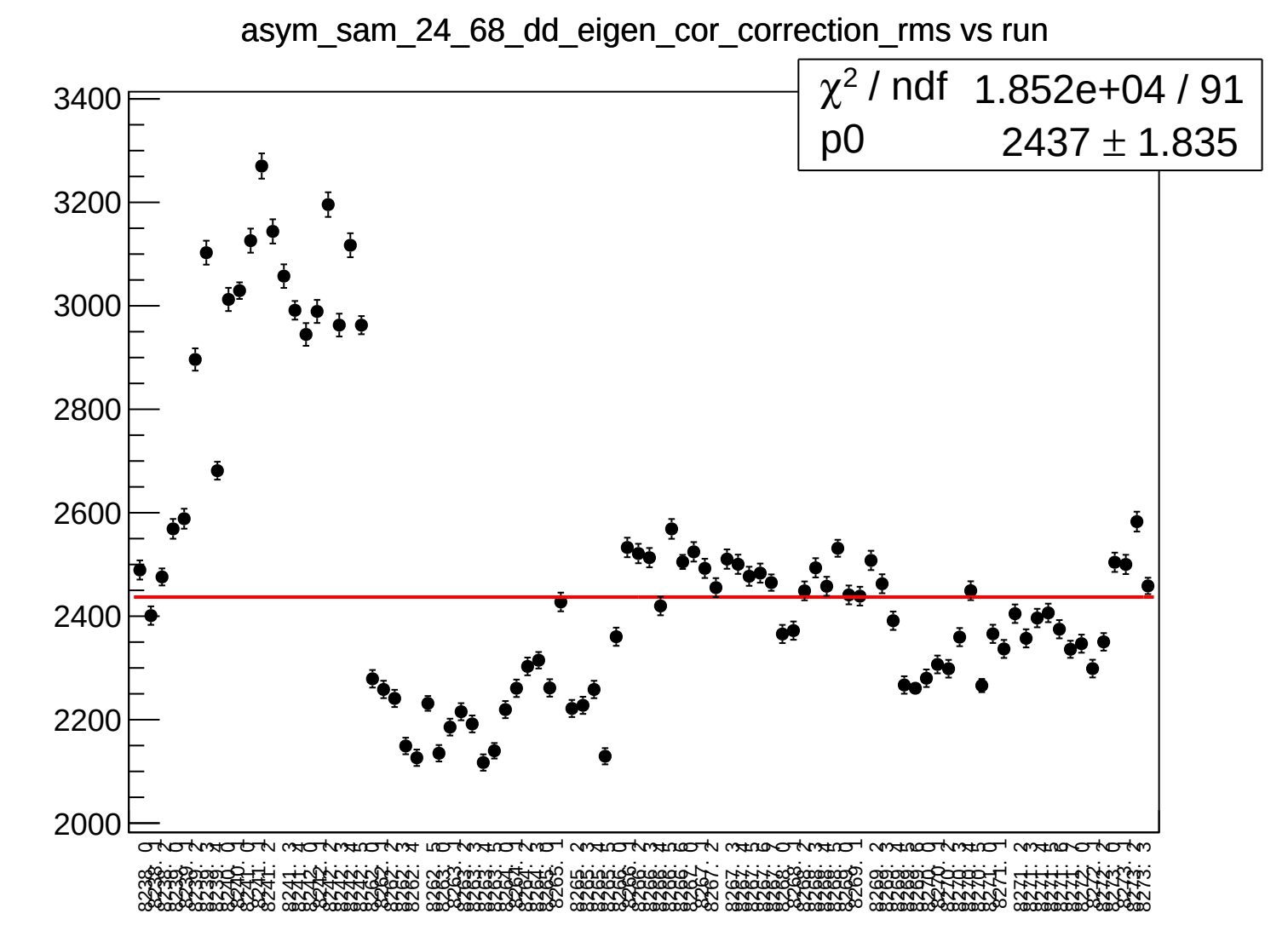

eigen_cor_asym_sam_24_68_dd_mean vs run
$\chi^2$ / ndf 84.99 / 91
p0 3.122 ± 106.9
pull
Entries 92
Mean 65.44
Std Dev 106.7

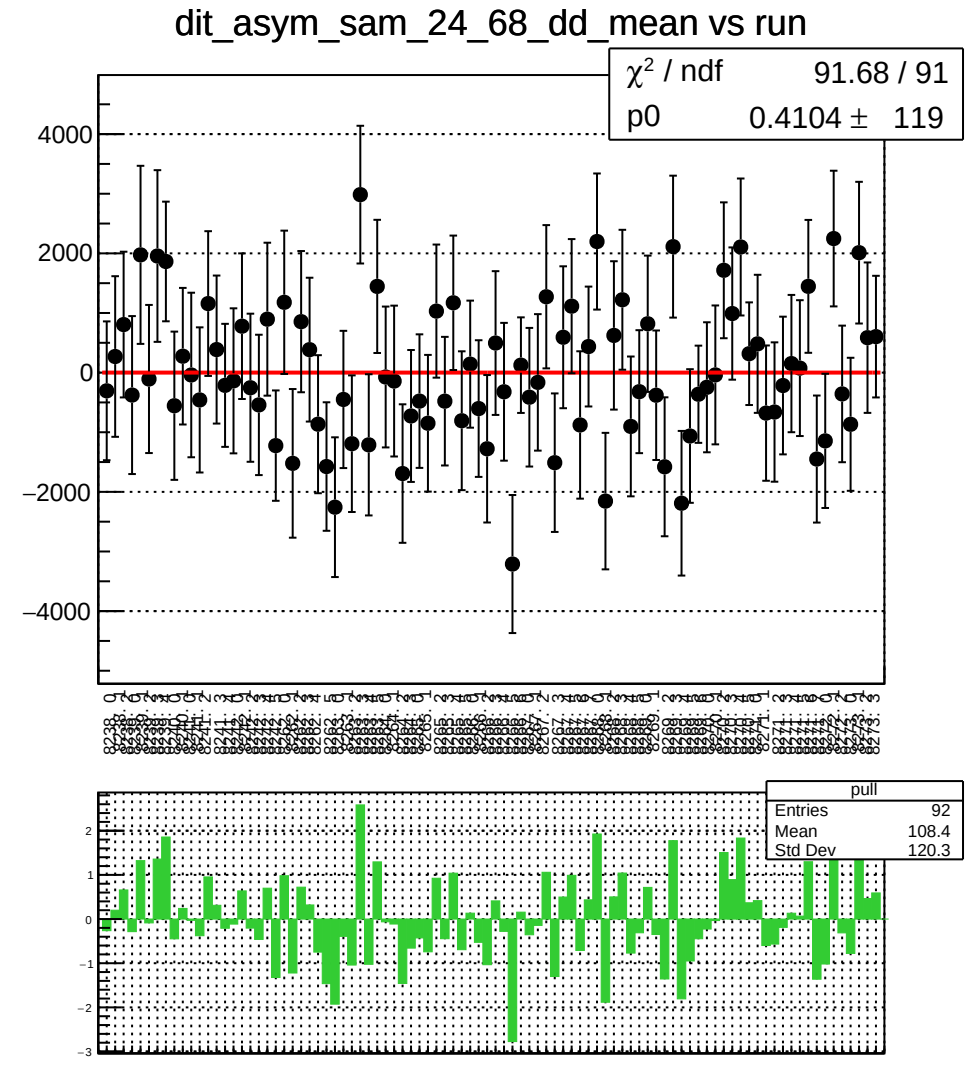

pull1D
Entries 92
Mean 0.009672
Std Dev 0.9611

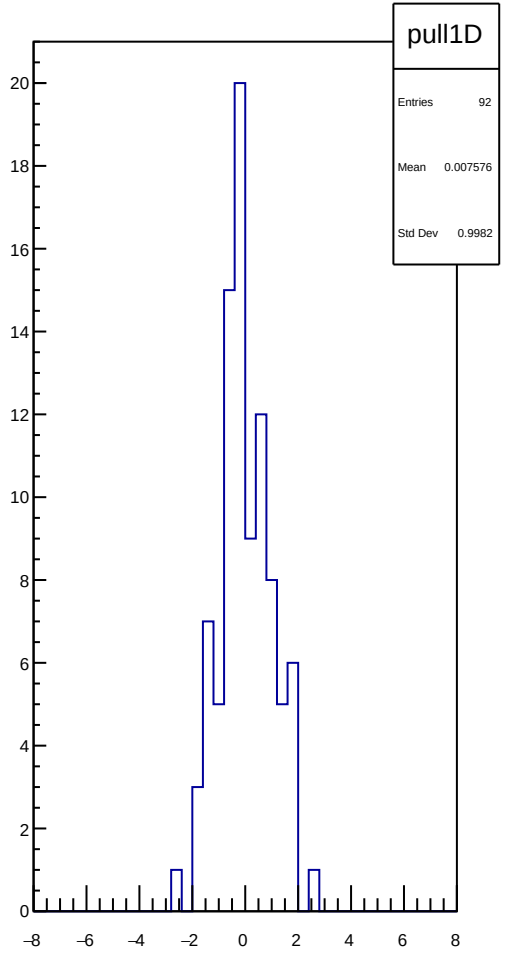

eigen_cor_asym_sam_24_68_dd_rms vs run
$\chi^2$ / ndf 1.143e+04 / 91
p0 100.6 ± 0.07562
140
130
120
110
100
90

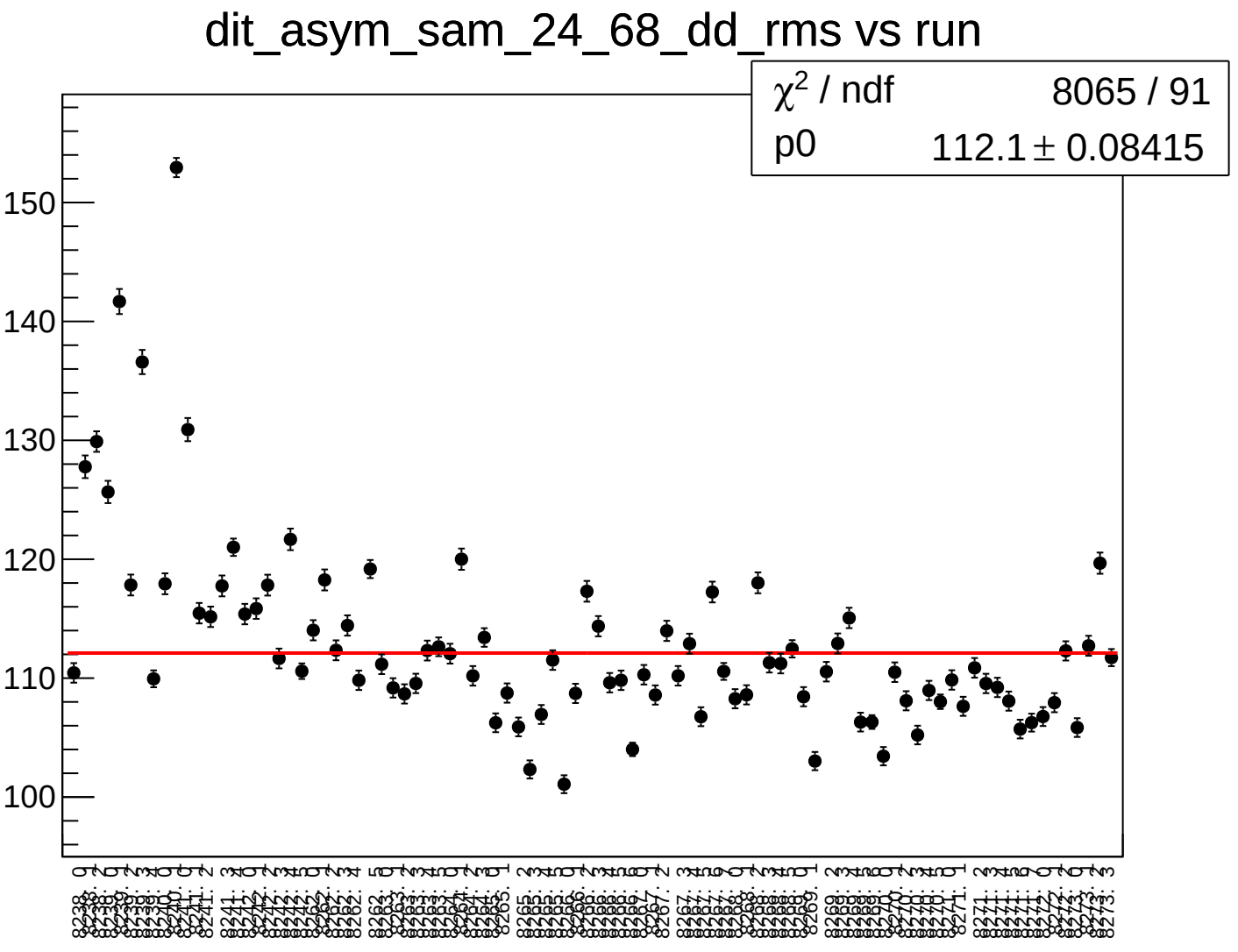

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 64.94 / 91
p0 −8585 ± 2595
pull
Entries 92
Mean −804.9
Std Dev 0

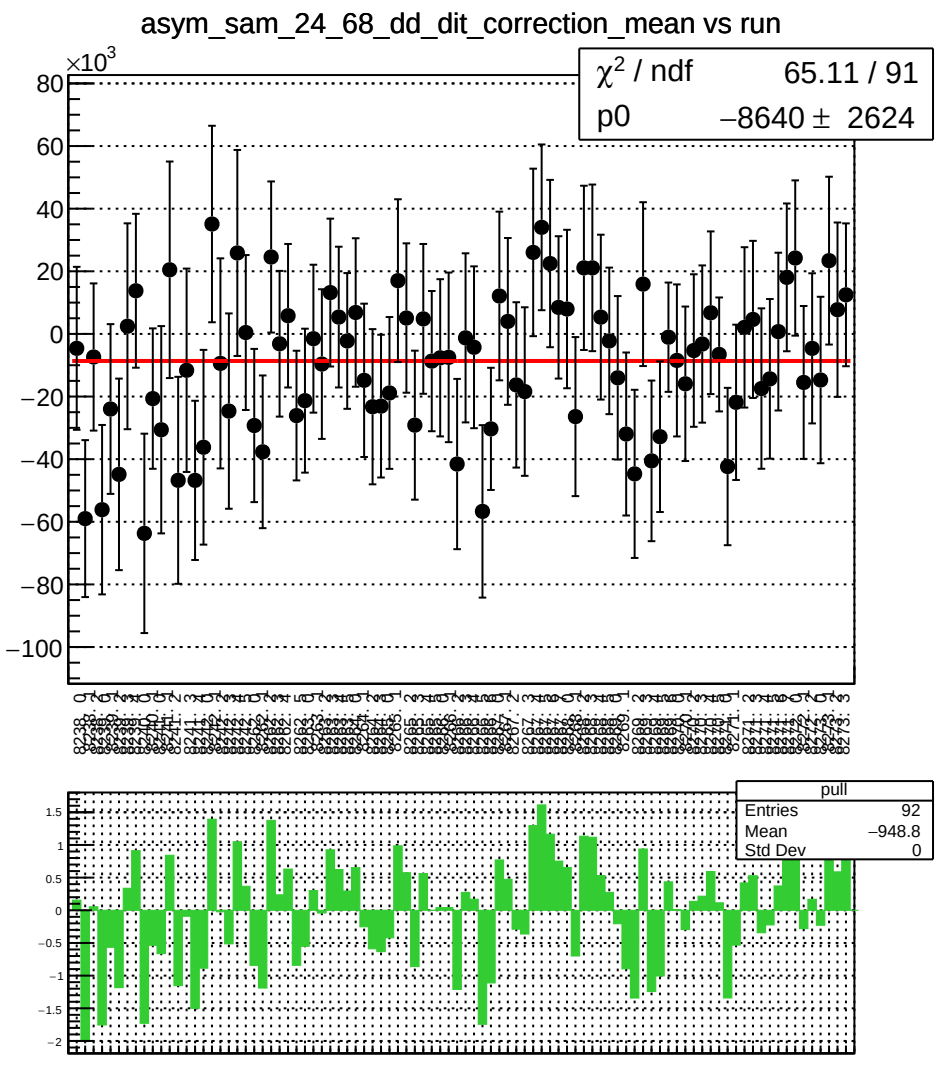

pull1D
Entries 92
Mean −0.006571
Std Dev 0.8401

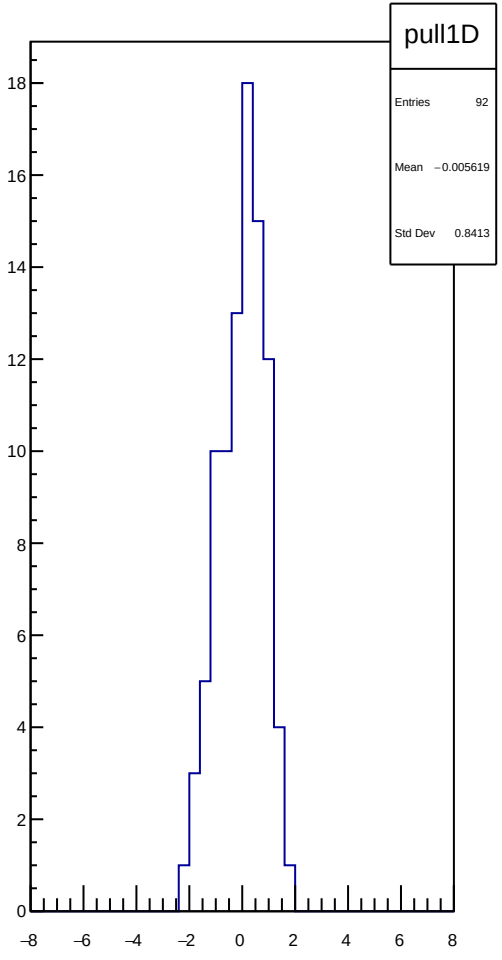

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.852e+04 / 91
p0 2437 ± 1.835
3400
3200
3000
2800
2600
2400
2200
2000

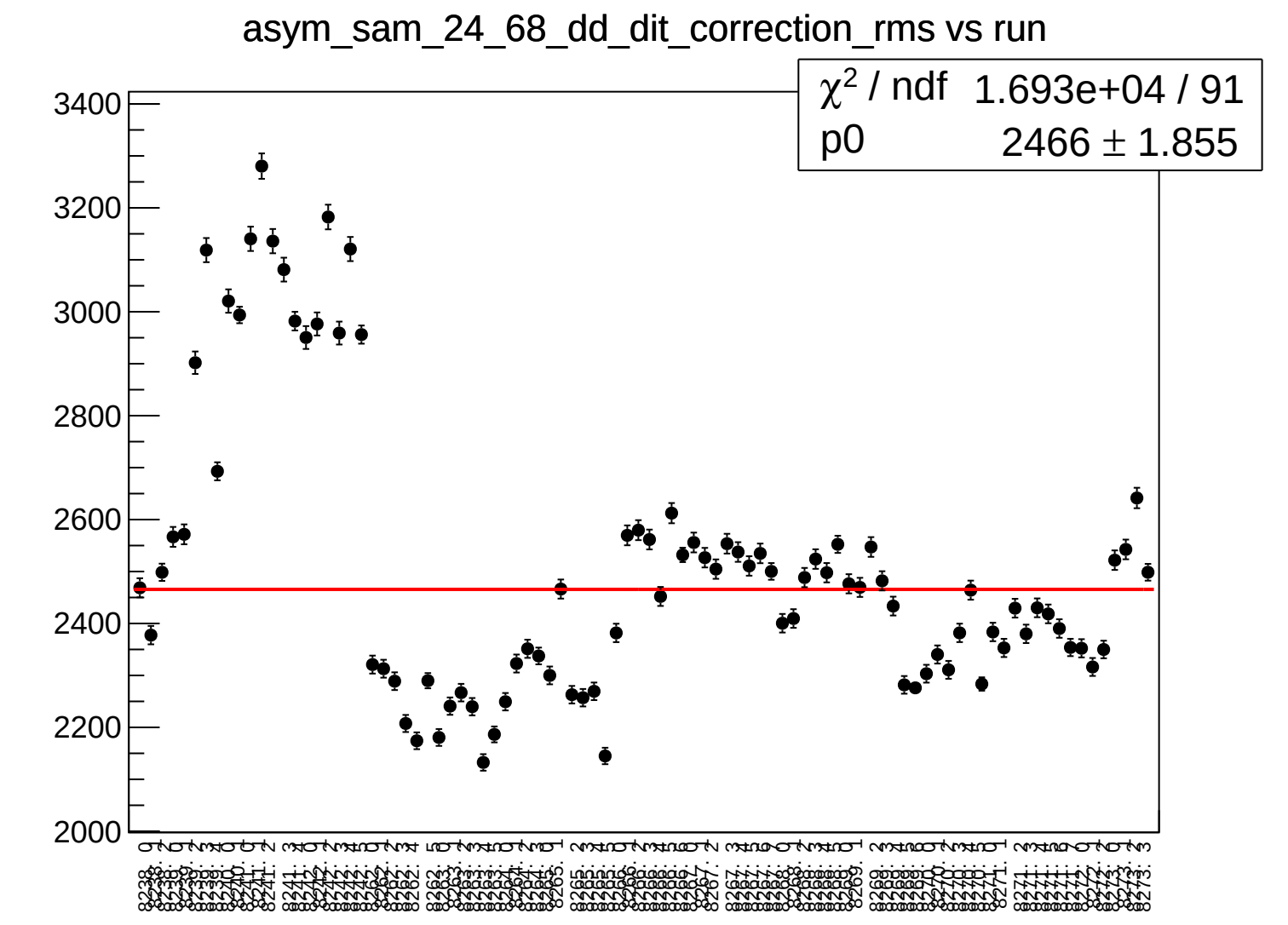

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 91.68 / 91
p0 0.4104 ± 119
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 108.4
Std Dev 120.3
2
1
0
−1
−2
−3

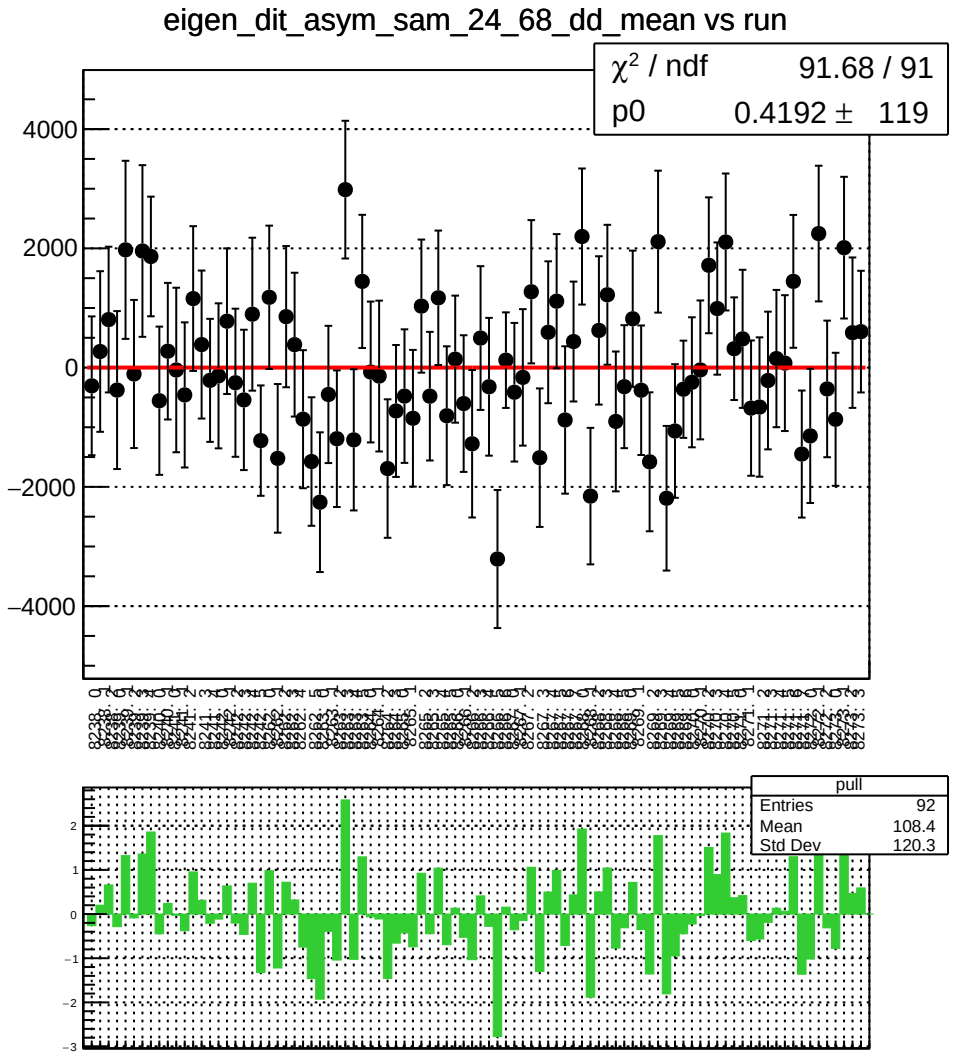

pull1D
Entries 92
Mean 0.007576
Std Dev 0.9982
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

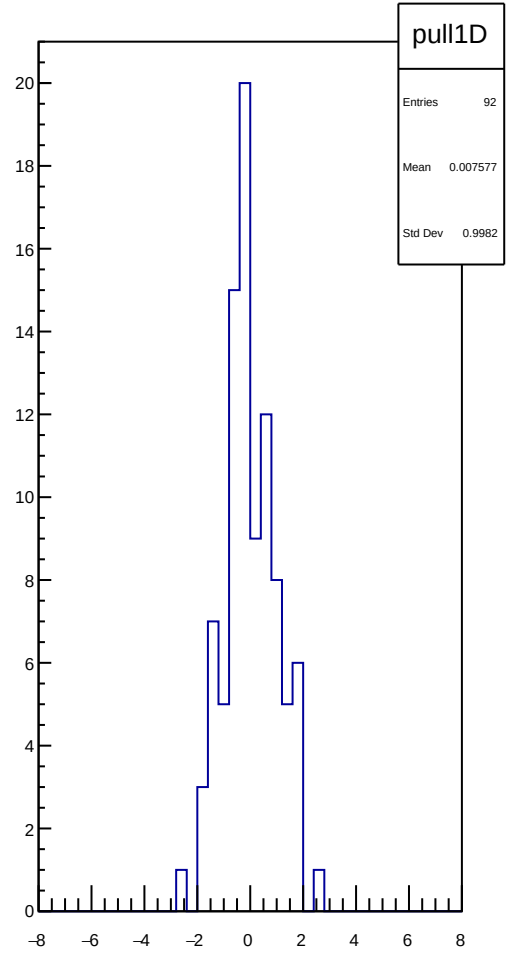

dit_asym_sam_24_68_dd_rms vs run
$\chi^2$ / ndf 8065 / 91
p0 112.1 ± 0.08415
150
140
130
120
110
100

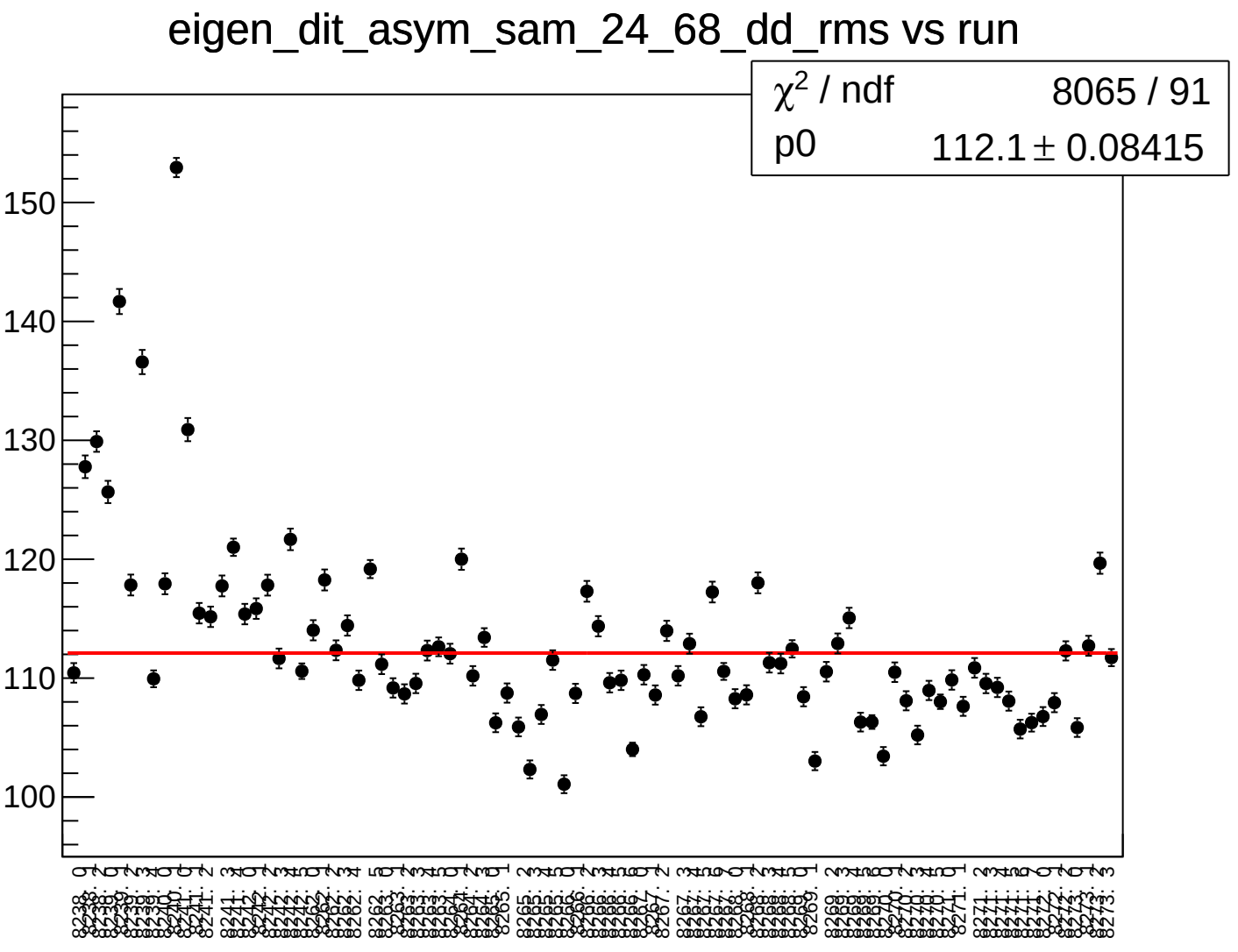

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ² / ndf 65.11 / 91
p0 −8640 ± 2624
pull
Entries 92
Mean −948.8
Std Dev 0

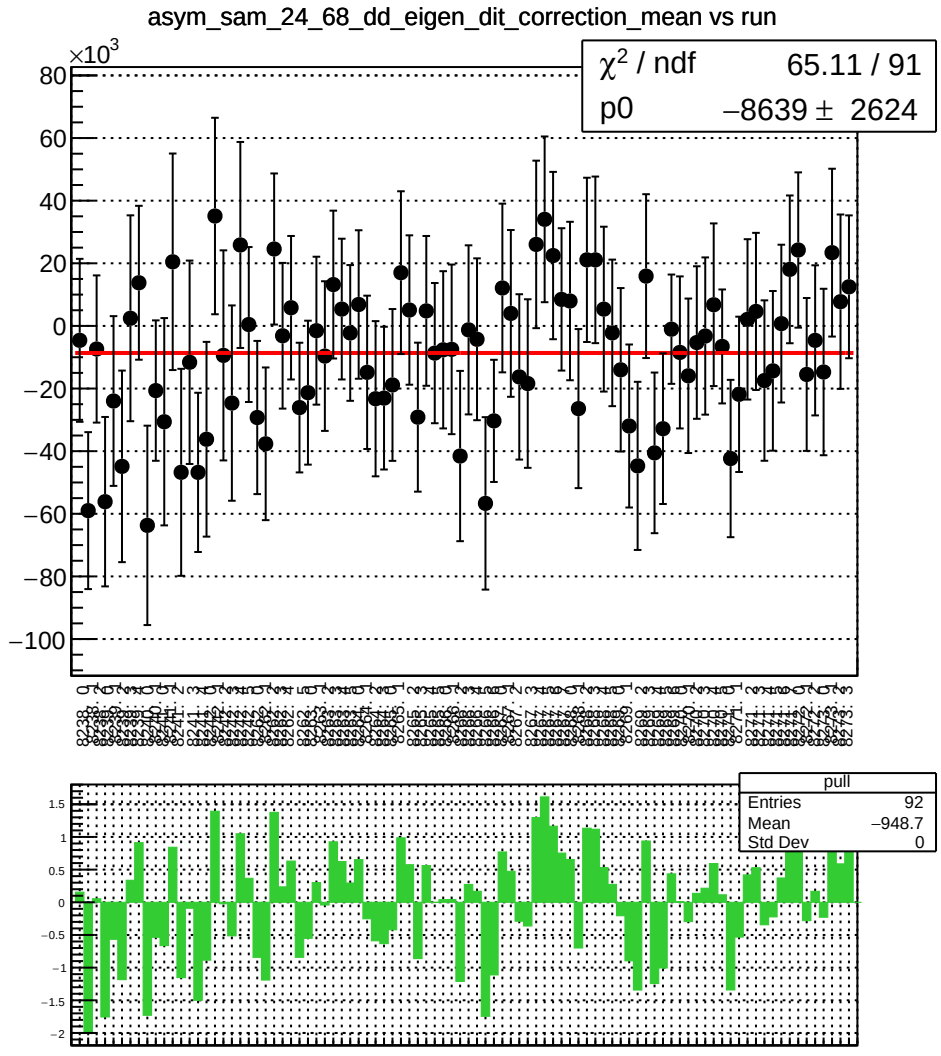

pull1D
Entries 92
Mean −0.005619
Std Dev 0.8413

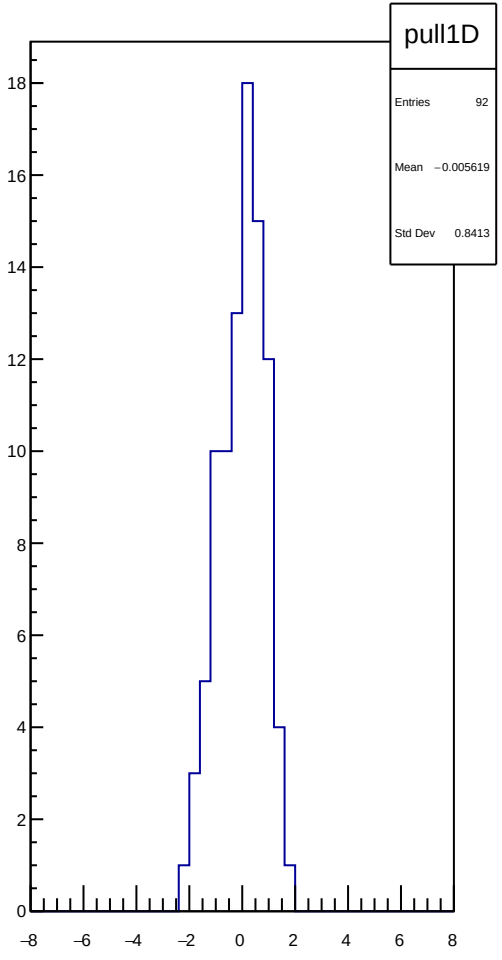

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 1.693e+04 / 91
p0 2466 ± 1.855
3400
3200
3000
2800
2600
2400
2200
2000

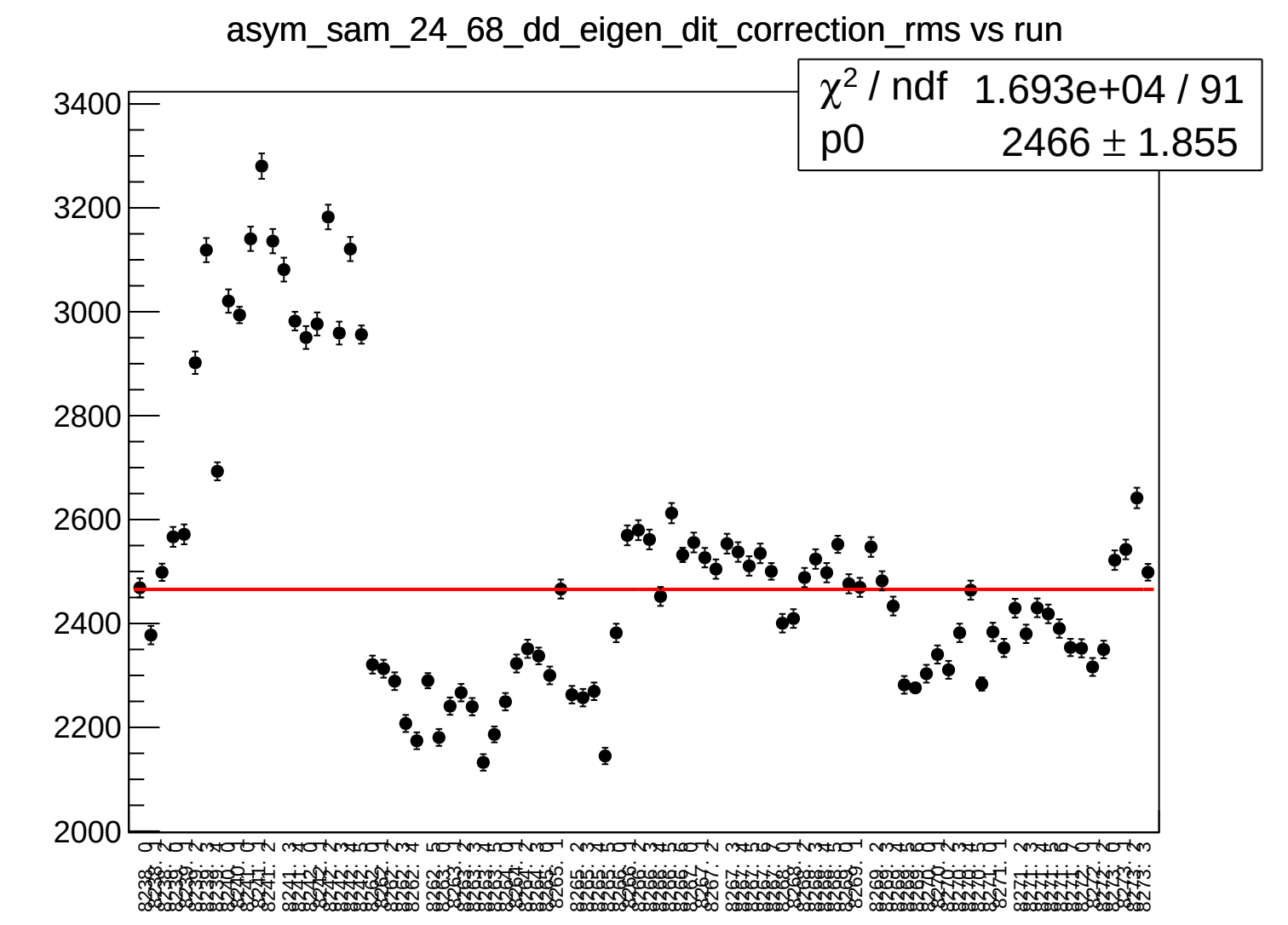

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 91.68 / 91
p0 0.4192 ± 119
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 108.4
Std Dev 120.3
2
1
0
−1
−2
−3

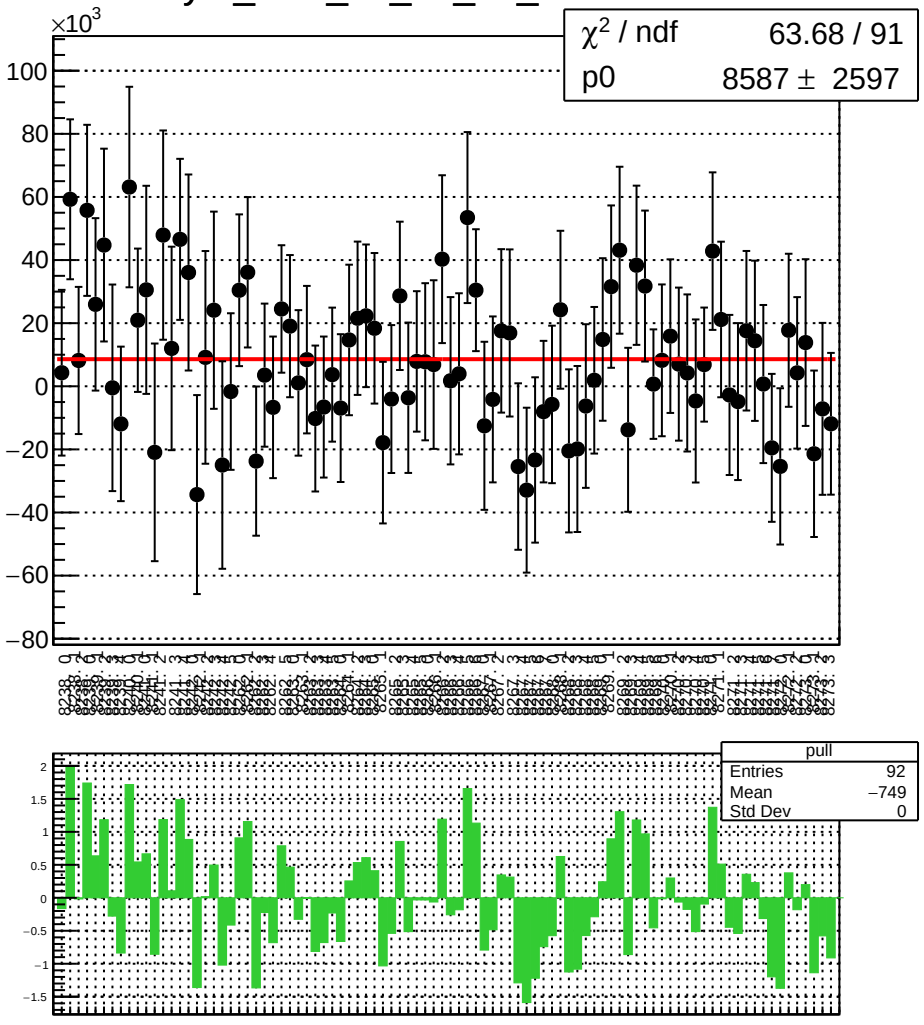

pull1D
Entries 92
Mean 0.007577
Std Dev 0.9982
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

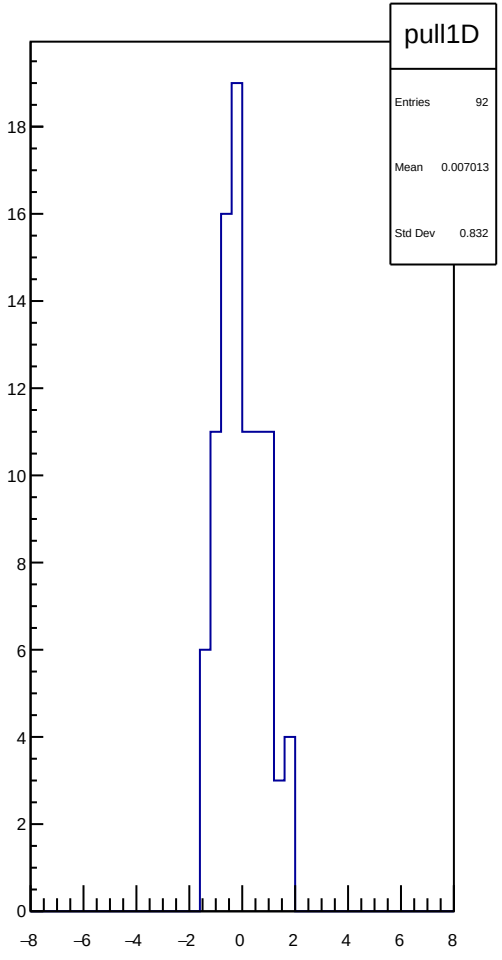

eigen_dit_asym_sam_24_68_dd_rms vs run
$\chi^2$ / ndf 8065 / 91
p0 112.1 ± 0.08415
150
140
130
120
110
100

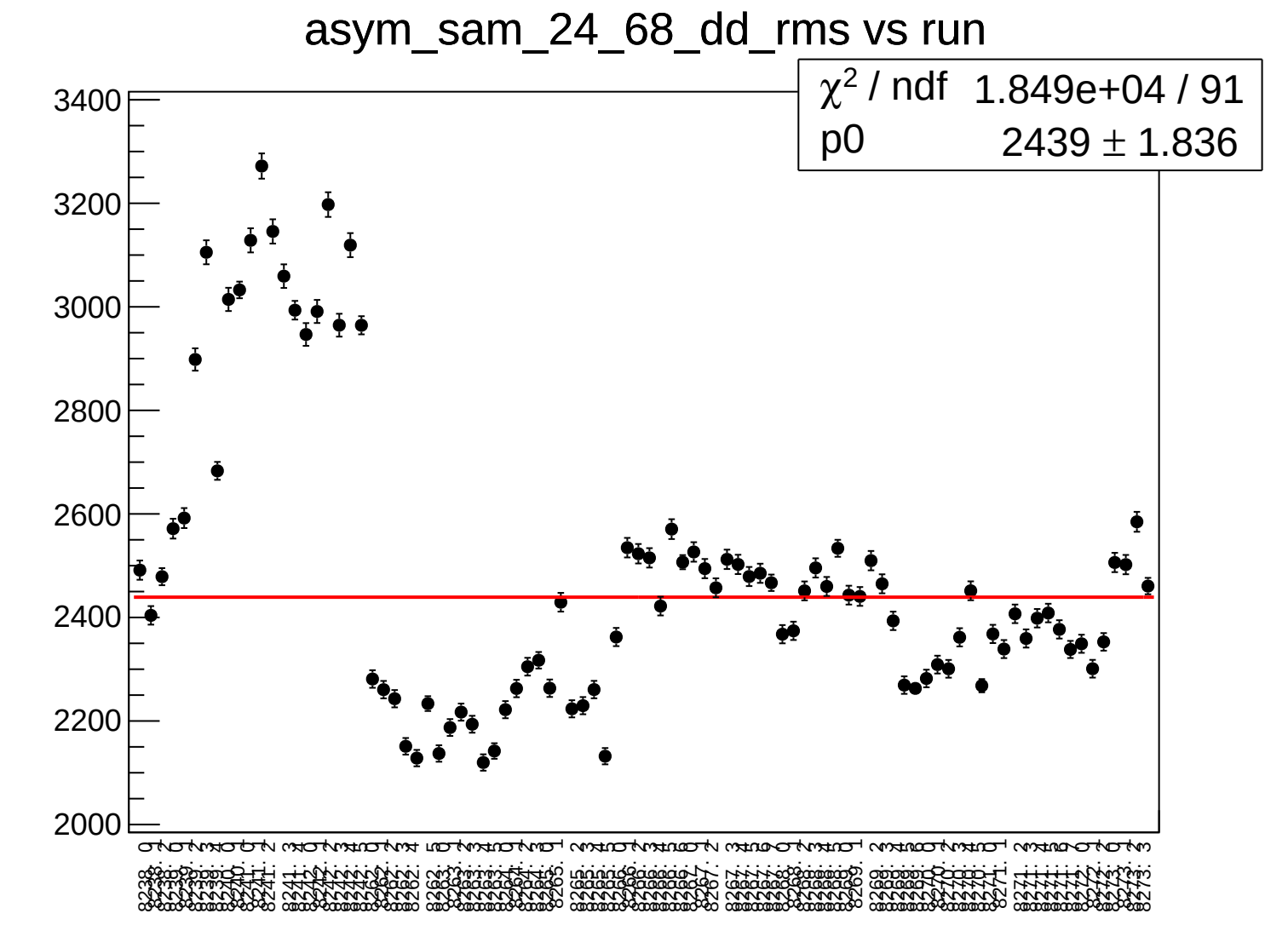

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.11 / 91
p0 −8639 ± 2624
×10³
pull
Entries 92
Mean −948.7
Std Dev 0

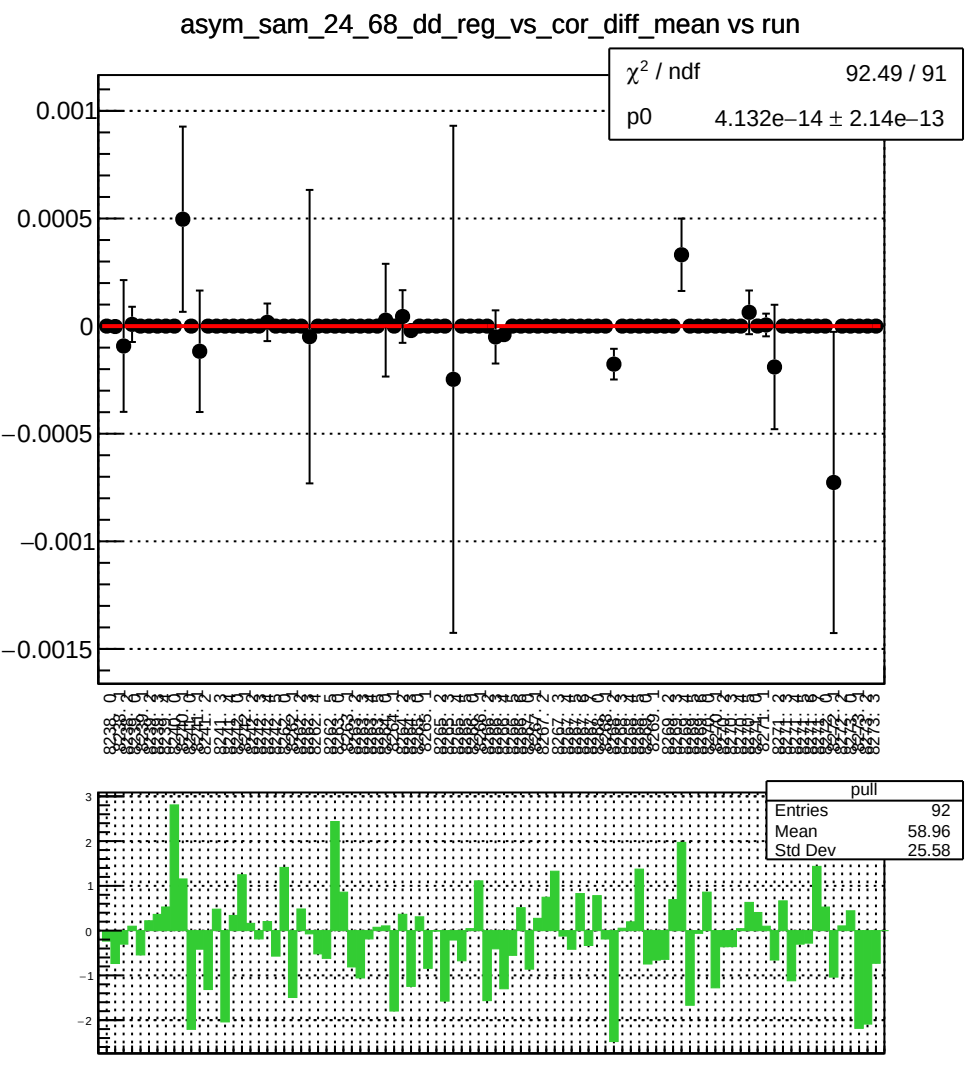

pull1D
Entries 92
Mean −0.005619
Std Dev 0.8413

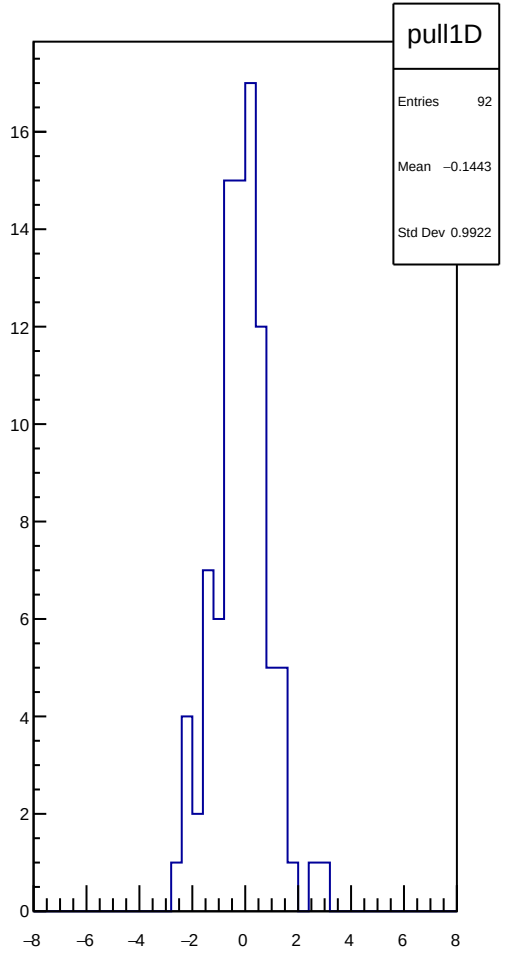

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.693e+04 / 91
p0 2466 ± 1.855
3400
3200
3000
2800
2600
2400
2200
2000

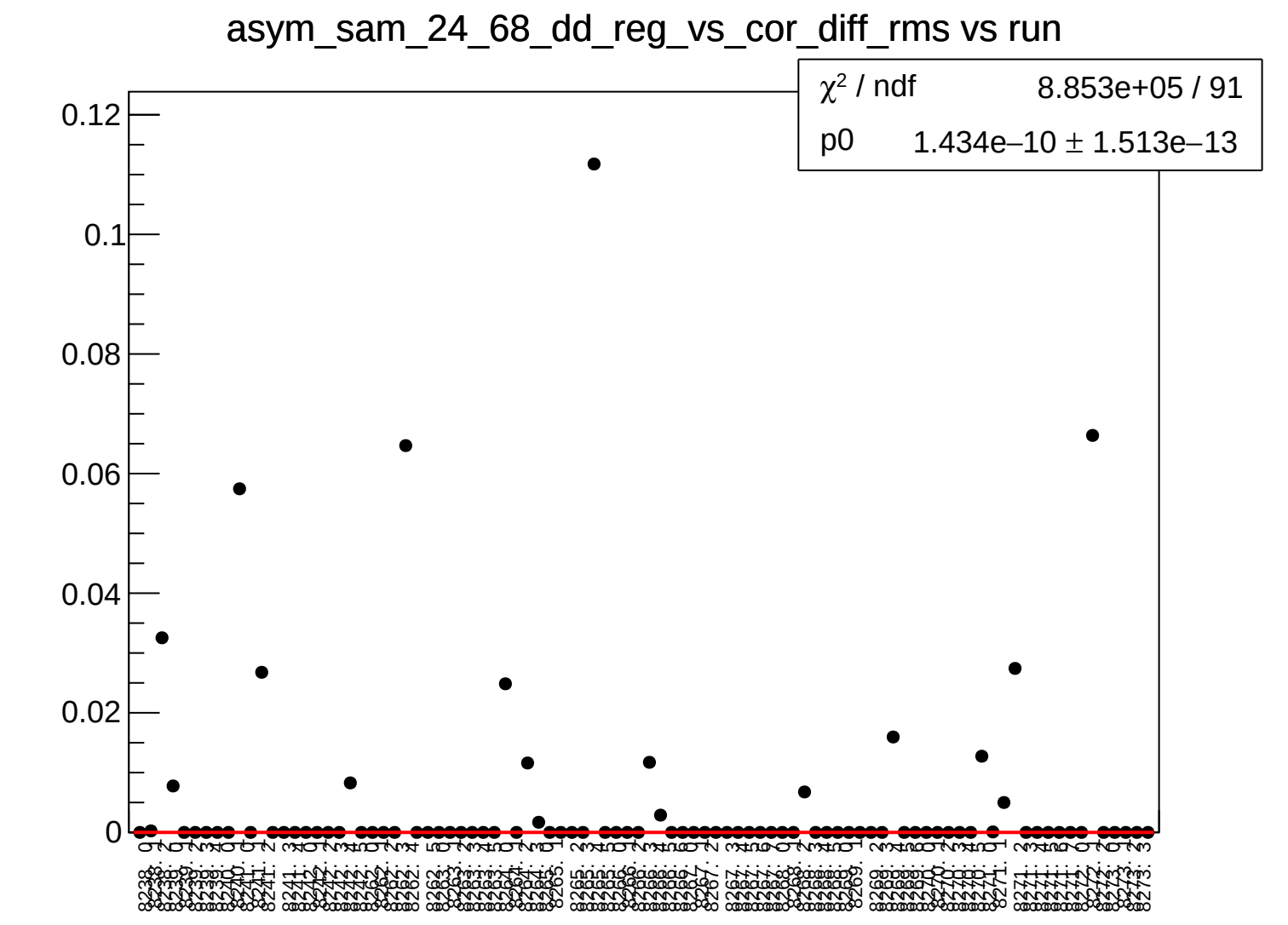

asym_sam_24_68_dd_mean vs run
χ² / ndf 63.68 / 91
p0 8587 ± 2597
pull
Entries 92
Mean −749
Std Dev 0

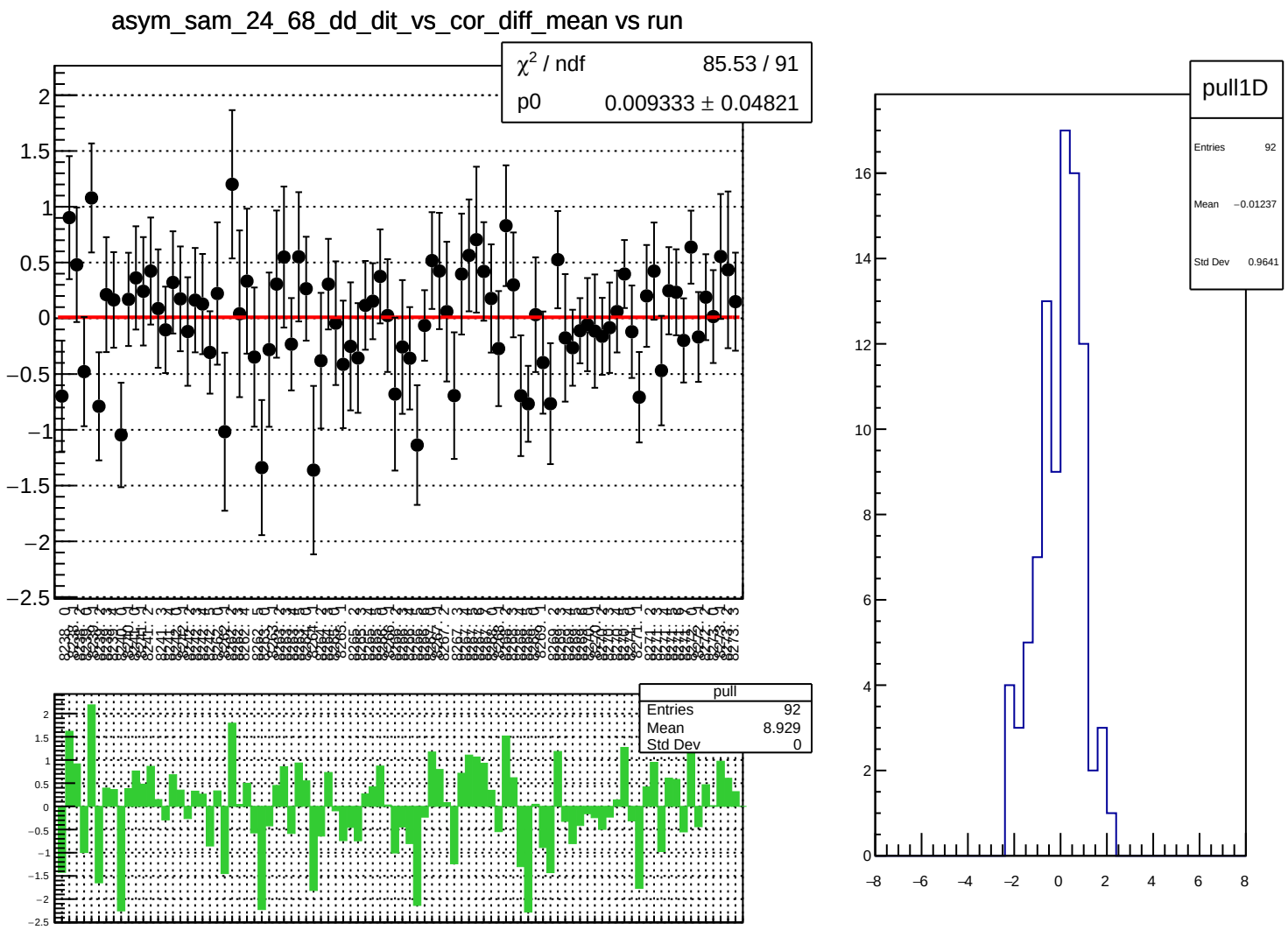

pull1D
Entries 92
Mean 0.007013
Std Dev 0.832

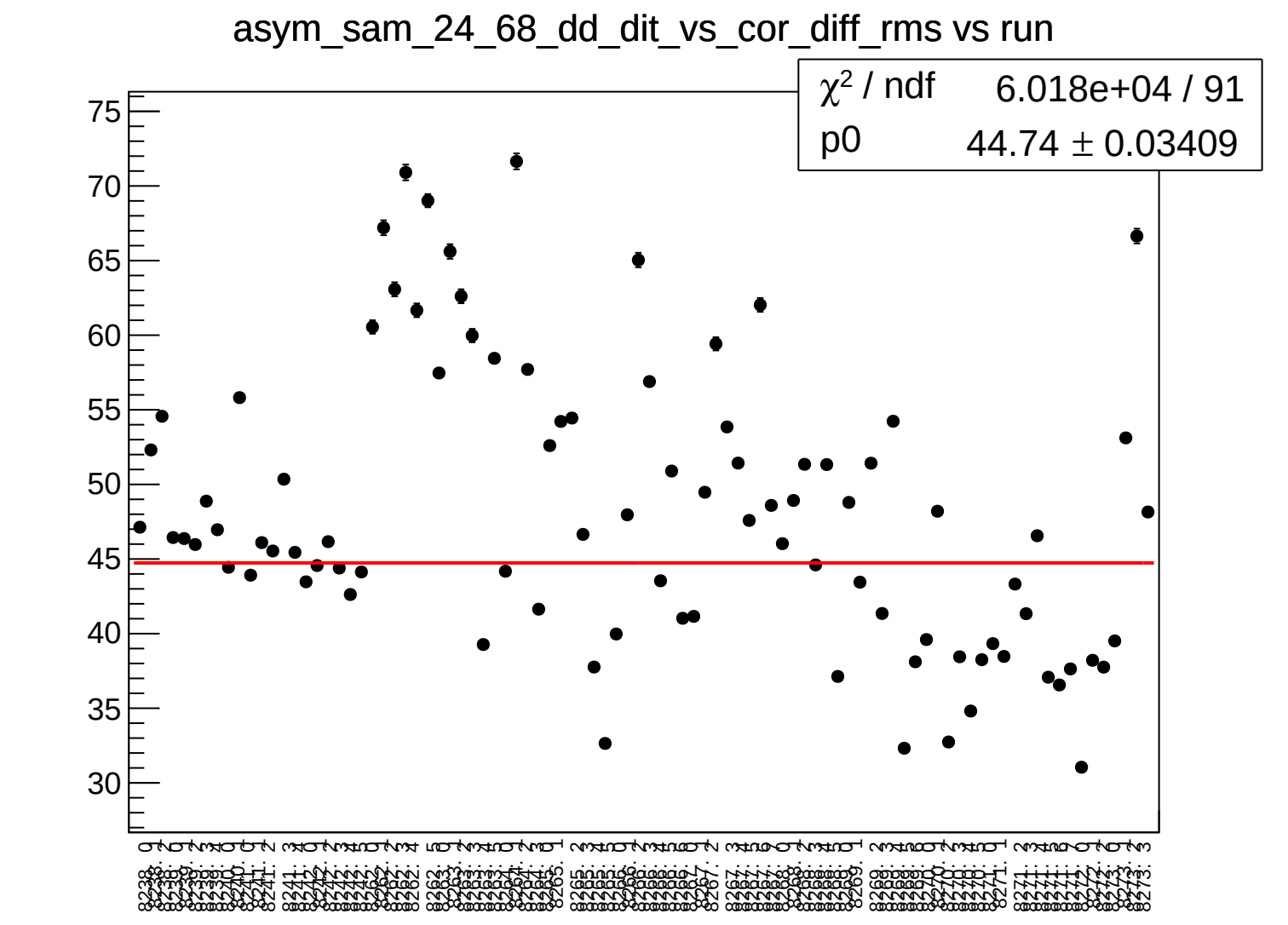

asym_sam_24_68_dd_rms vs run
χ² / ndf 1.849e+04 / 91
p0 2439 ± 1.836
3400
3200
3000
2800
2600
2400
2200
2000

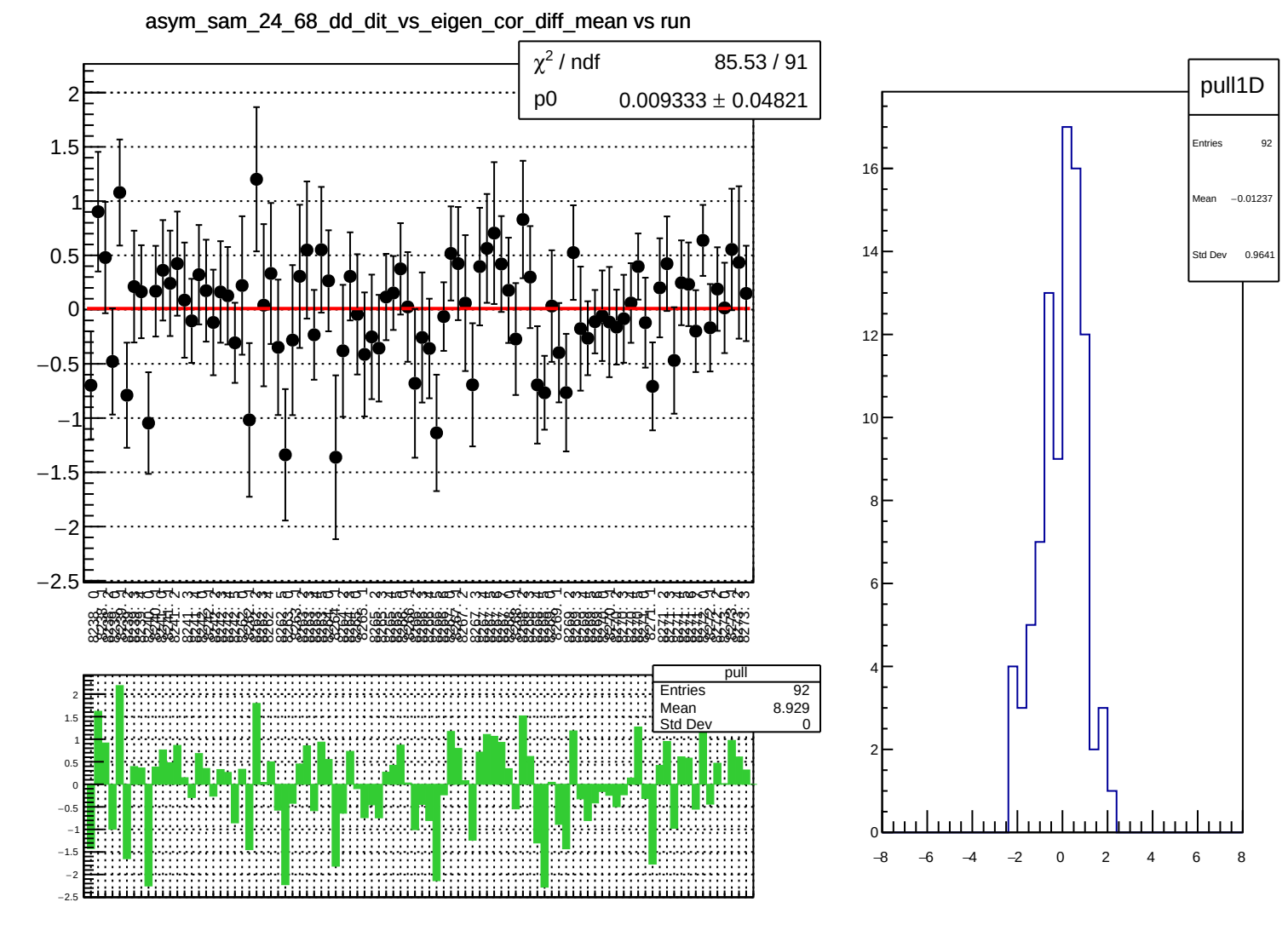

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.49 / 91
p0 4.132e−14 ± 2.14e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 92
Mean 58.96
Std Dev 25.58
3
2
1
0
−1
−2

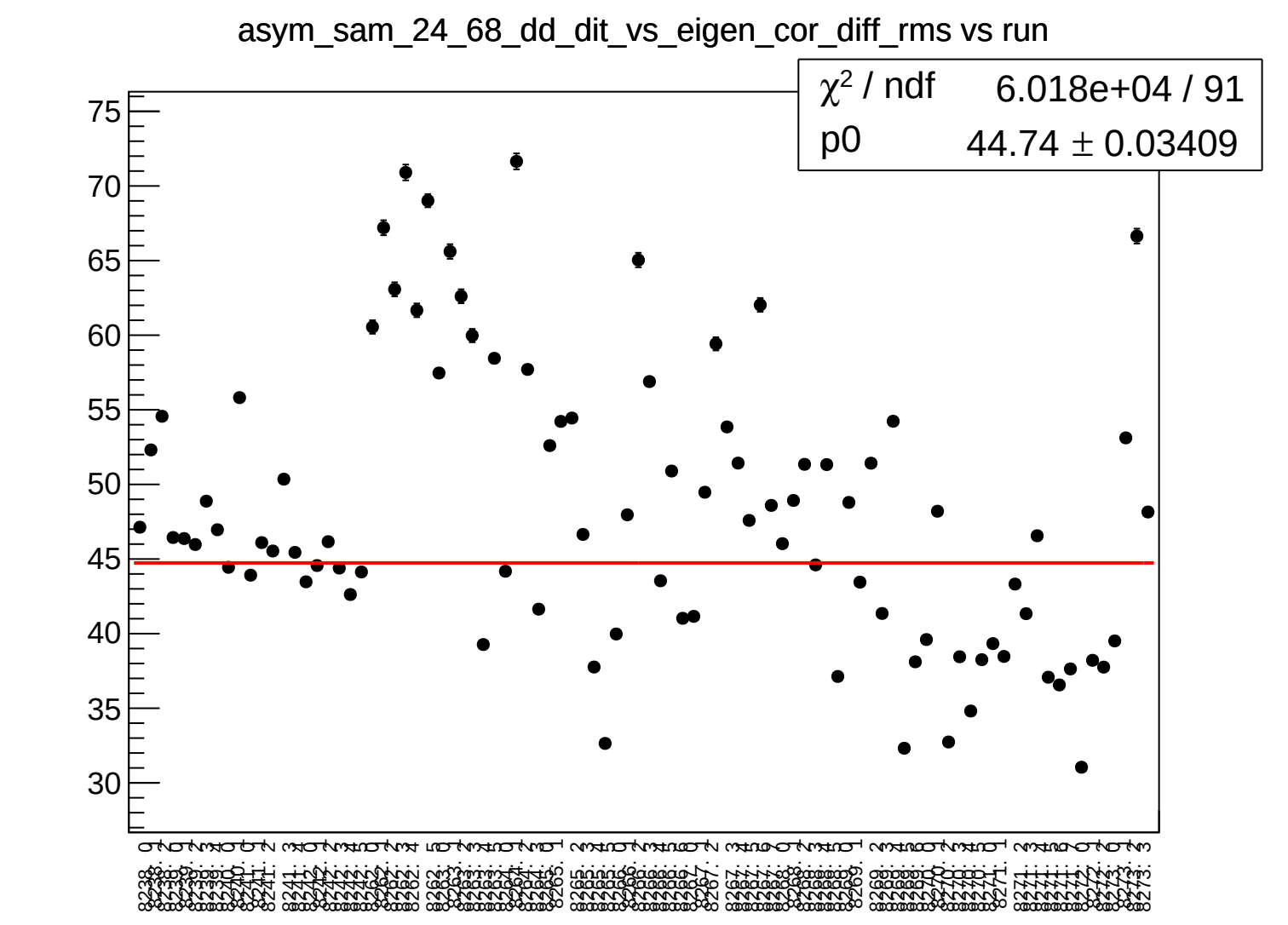

pull1D
Entries 92
Mean −0.1443
Std Dev 0.9922
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

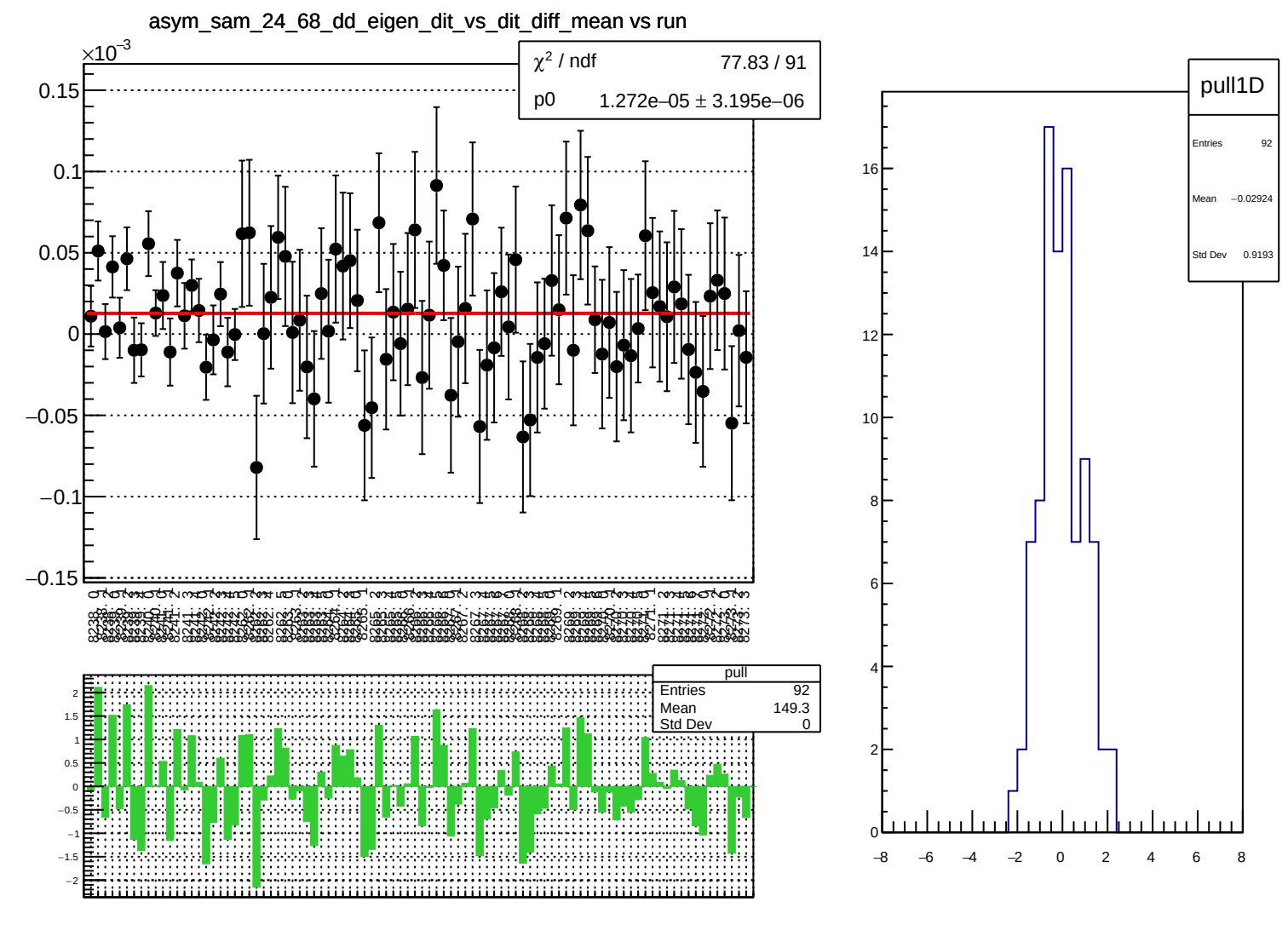

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.853e+05 / 91
p0 1.434e−10 ± 1.513e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

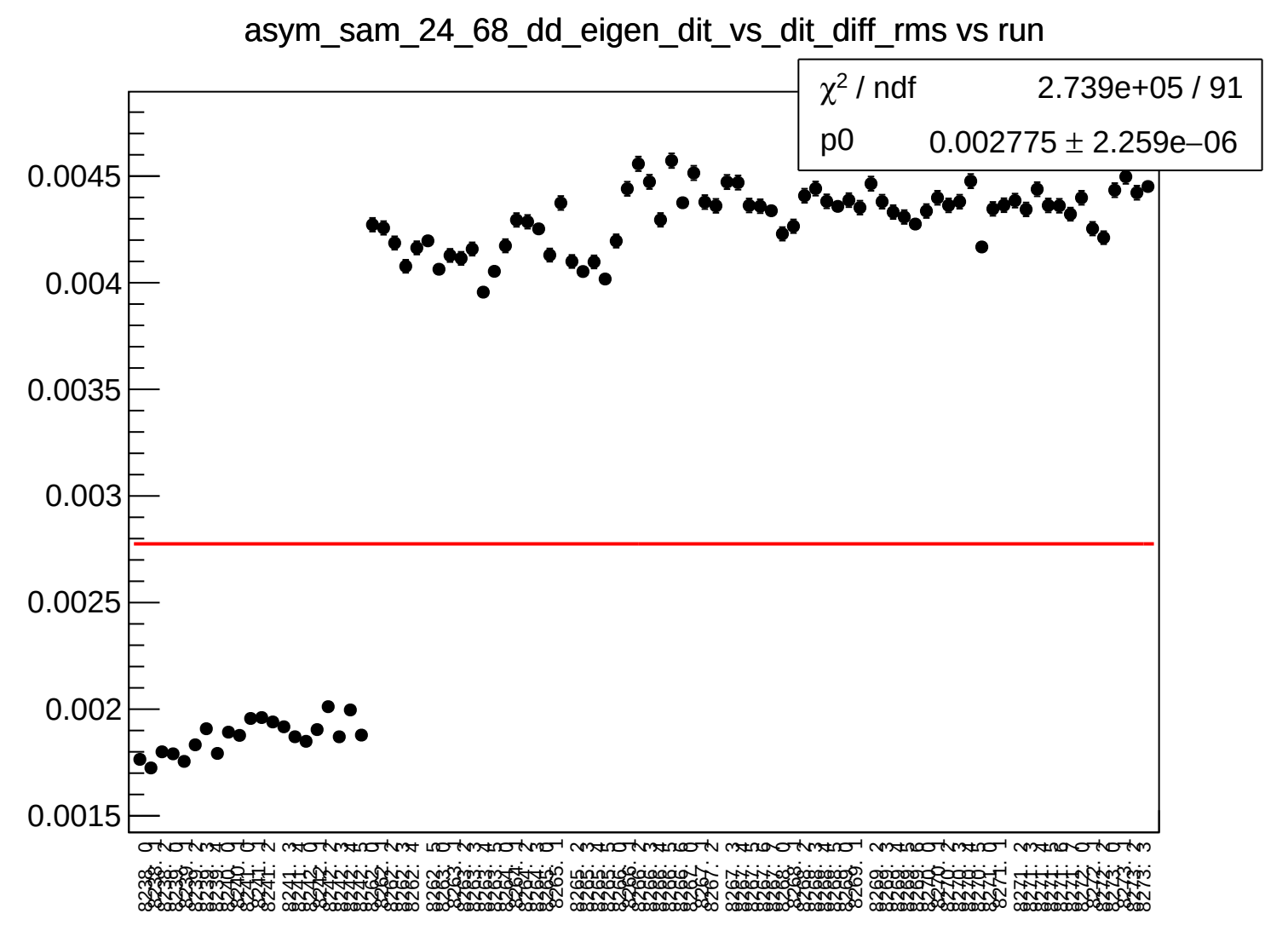

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.53 / 91
p0 0.009333 ± 0.04821
pull
Entries 92
Mean 8.929
Std Dev 0
pull1D
Entries 92
Mean −0.01237
Std Dev 0.9641

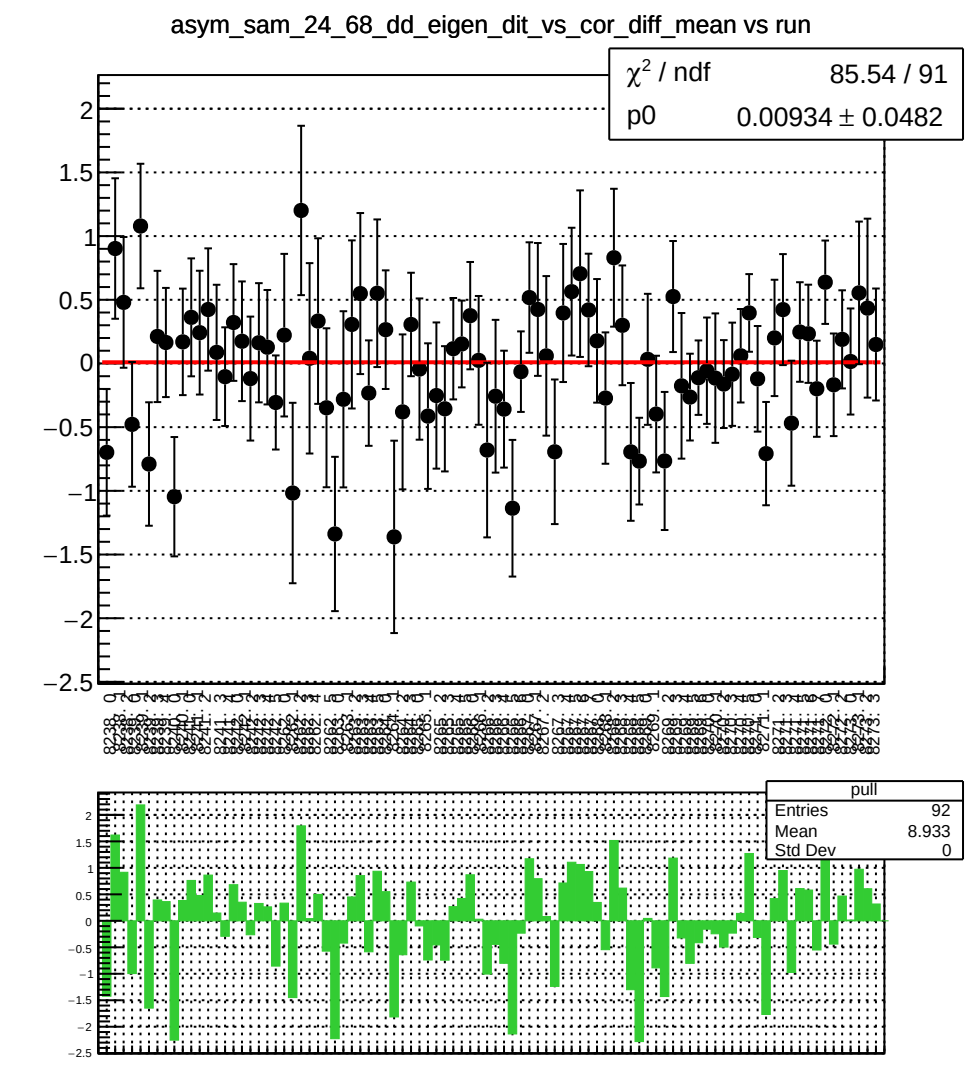

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.018e+04 / 91
p0 44.74 ± 0.03409
75
70
65
60
55
50
45
40
35
30

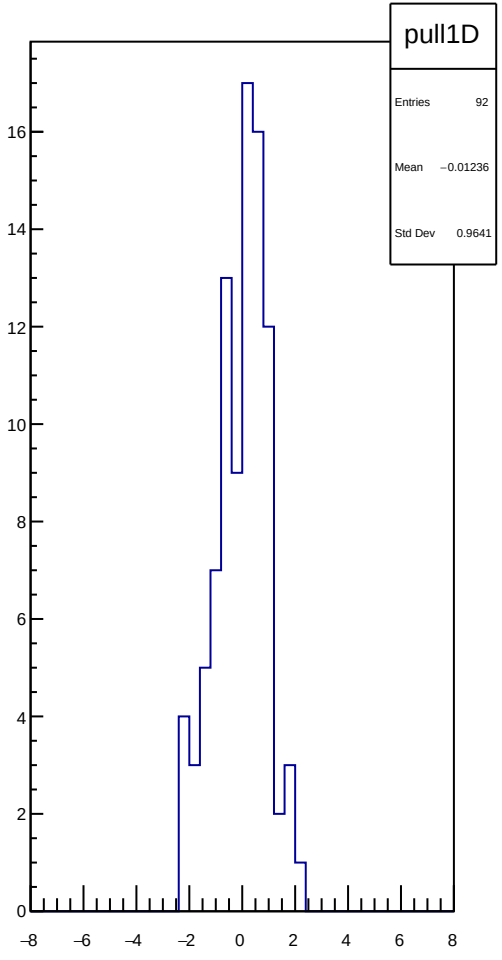

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.53 / 91
p0 0.009333 ± 0.04821
pull
Entries 92
Mean 8.929
Std Dev 0
pull1D
Entries 92
Mean −0.01237
Std Dev 0.9641

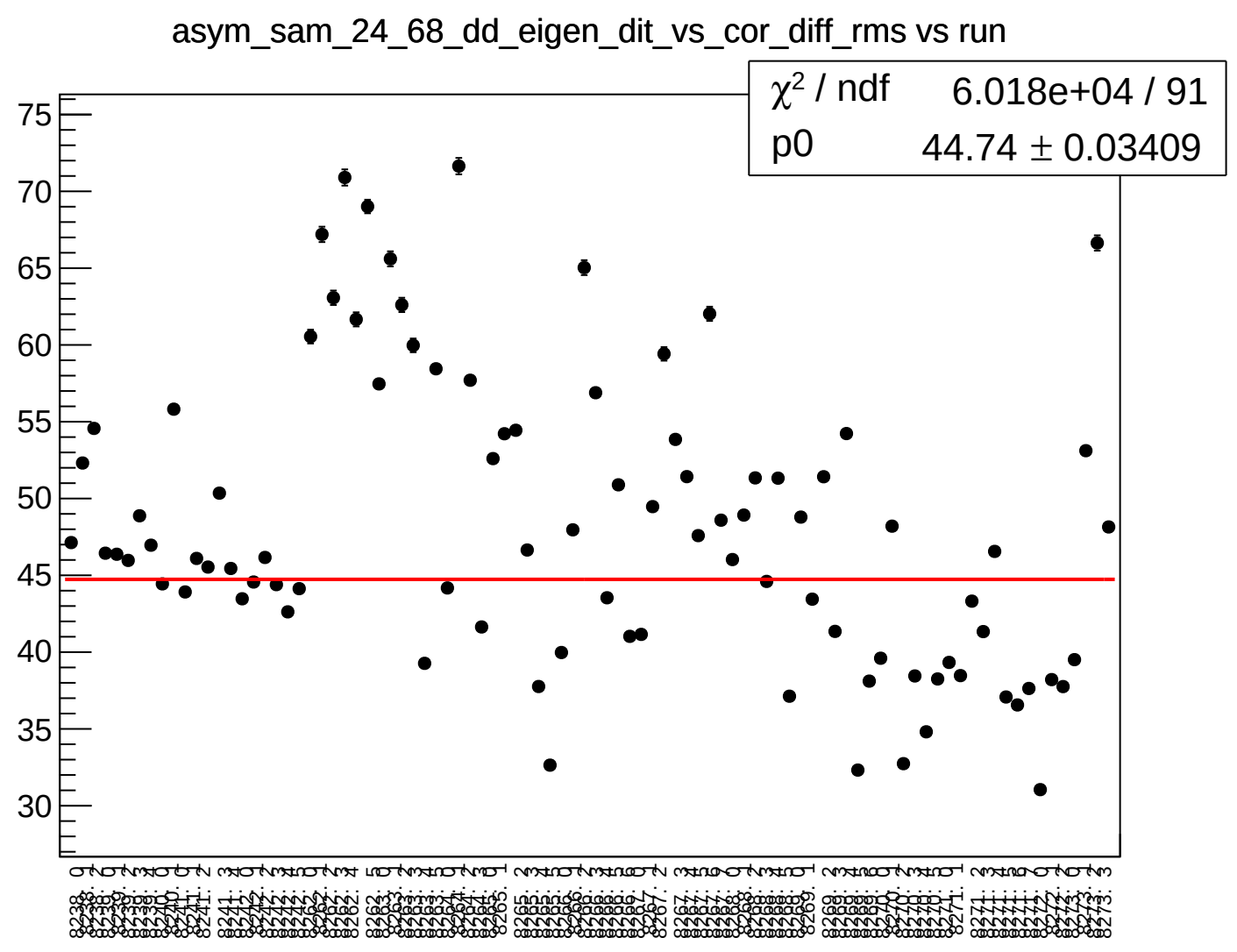

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.018e+04 / 91
p0 44.74 ± 0.03409
75
70
65
60
55
50
45
40
35
30

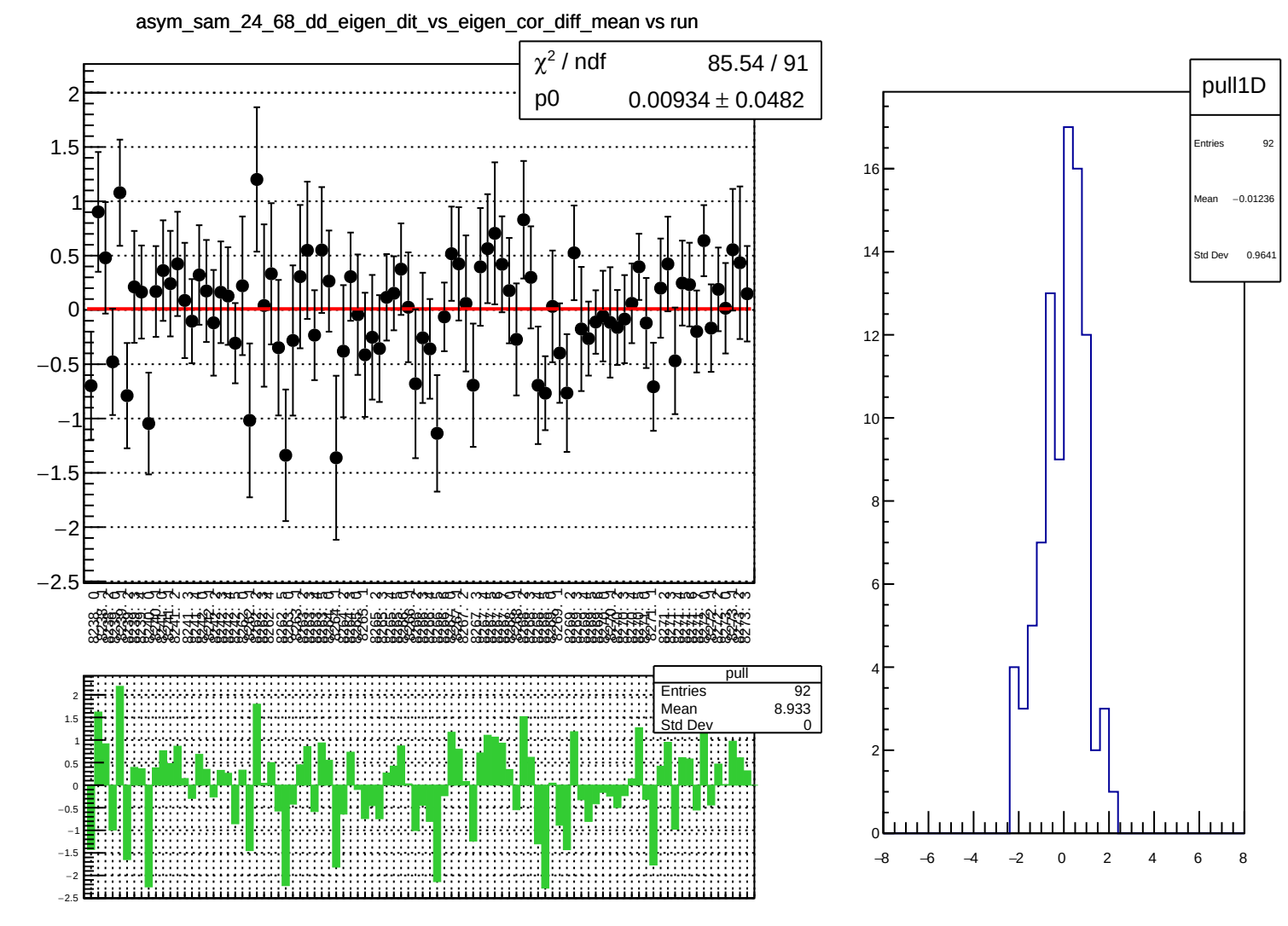

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 77.83 / 91
p0 1.272e−05 ± 3.195e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean 149.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.02924
Std Dev 0.9193
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

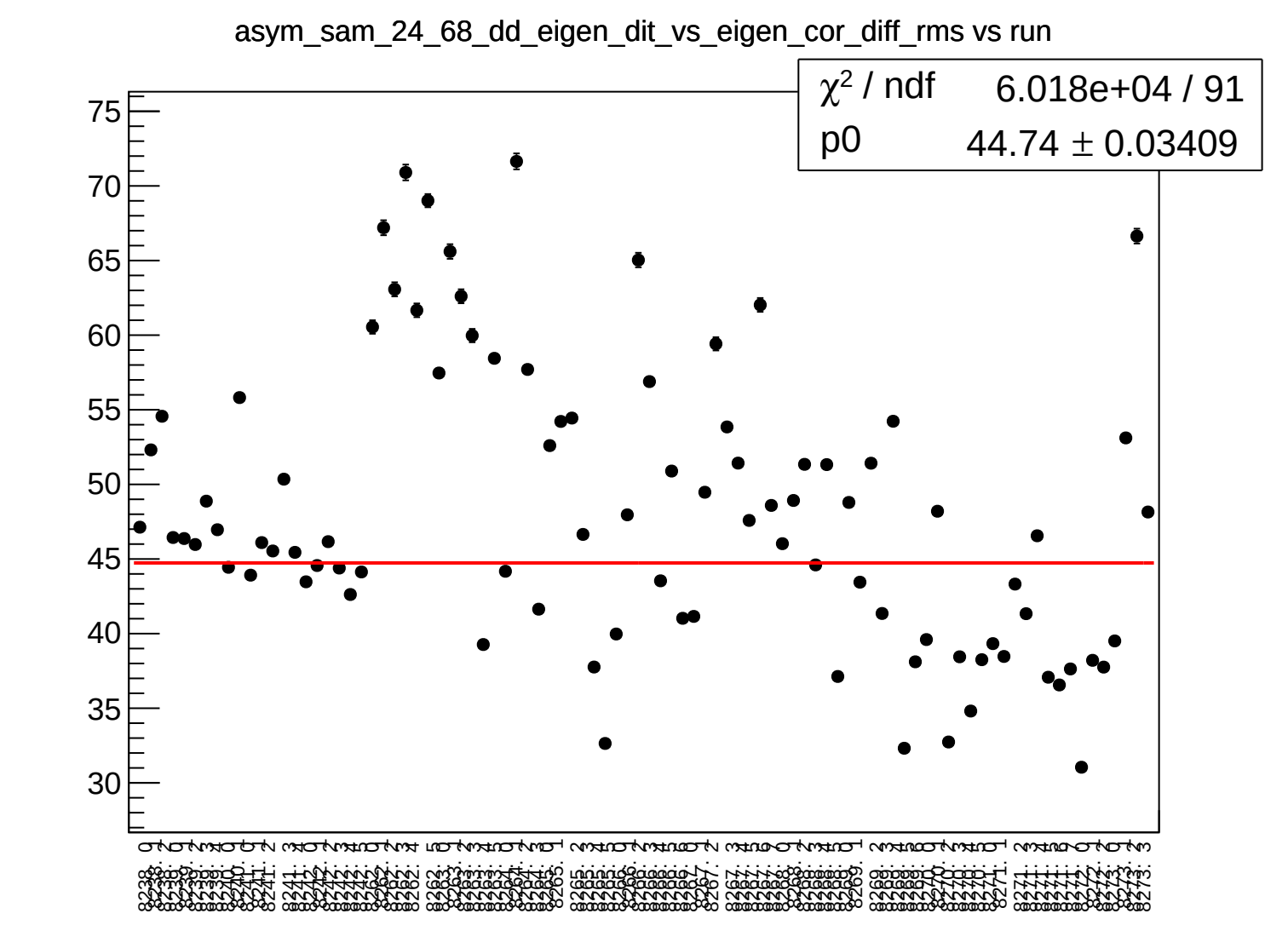

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.739e+05 / 91
p0 0.002775 ± 2.259e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

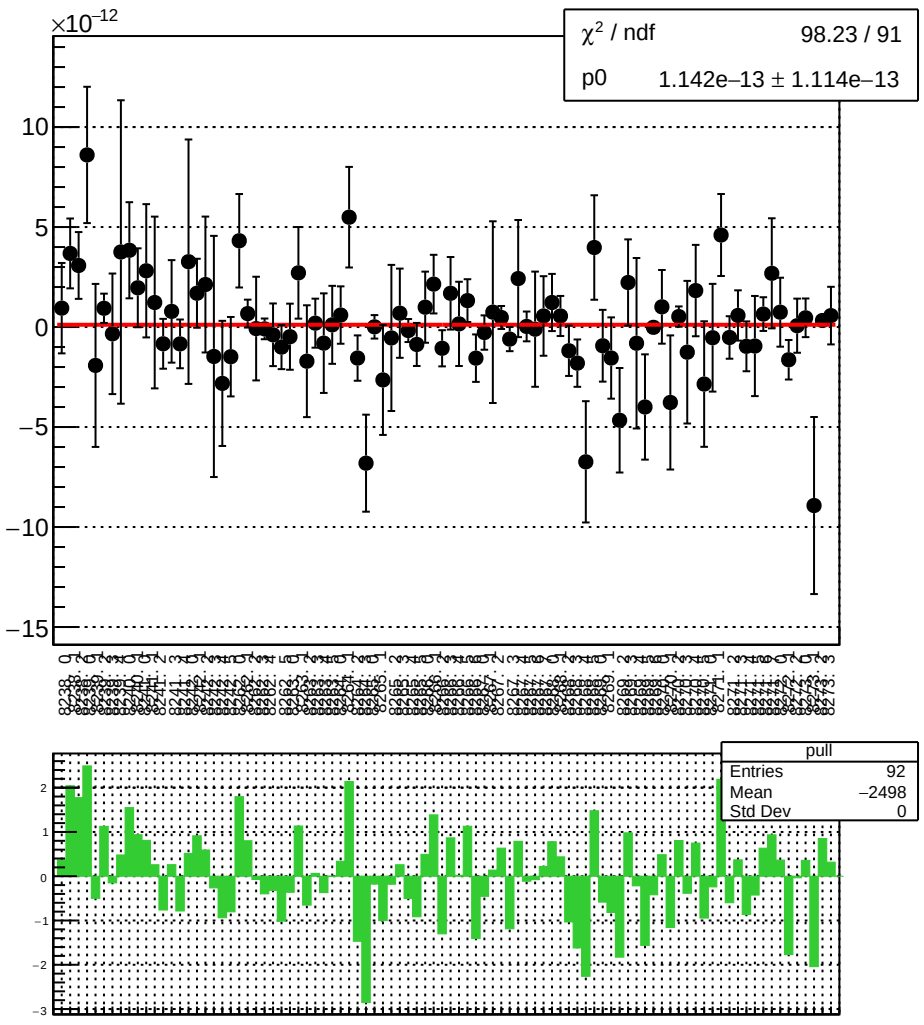

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.54 / 91
p0 0.00934 ± 0.0482
pull
Entries 92
Mean 8.933
Std Dev 0

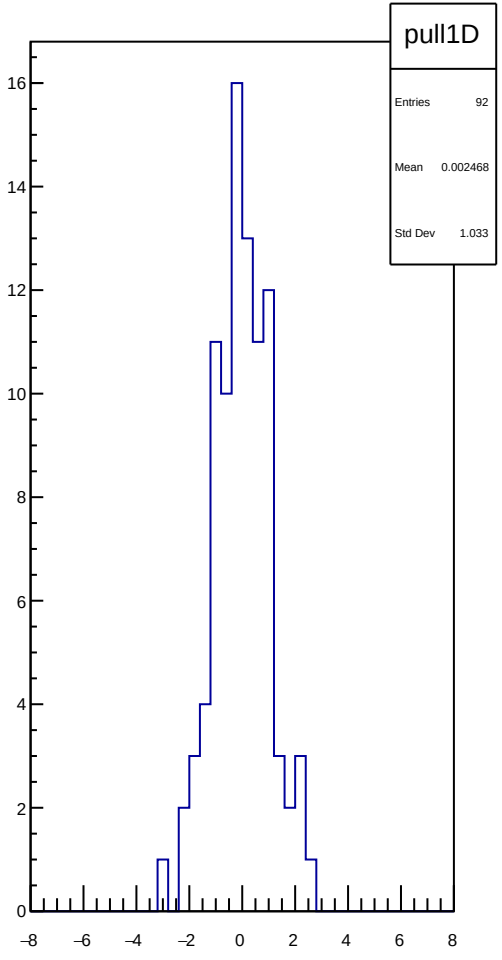

pull1D
Entries 92
Mean −0.01236
Std Dev 0.9641

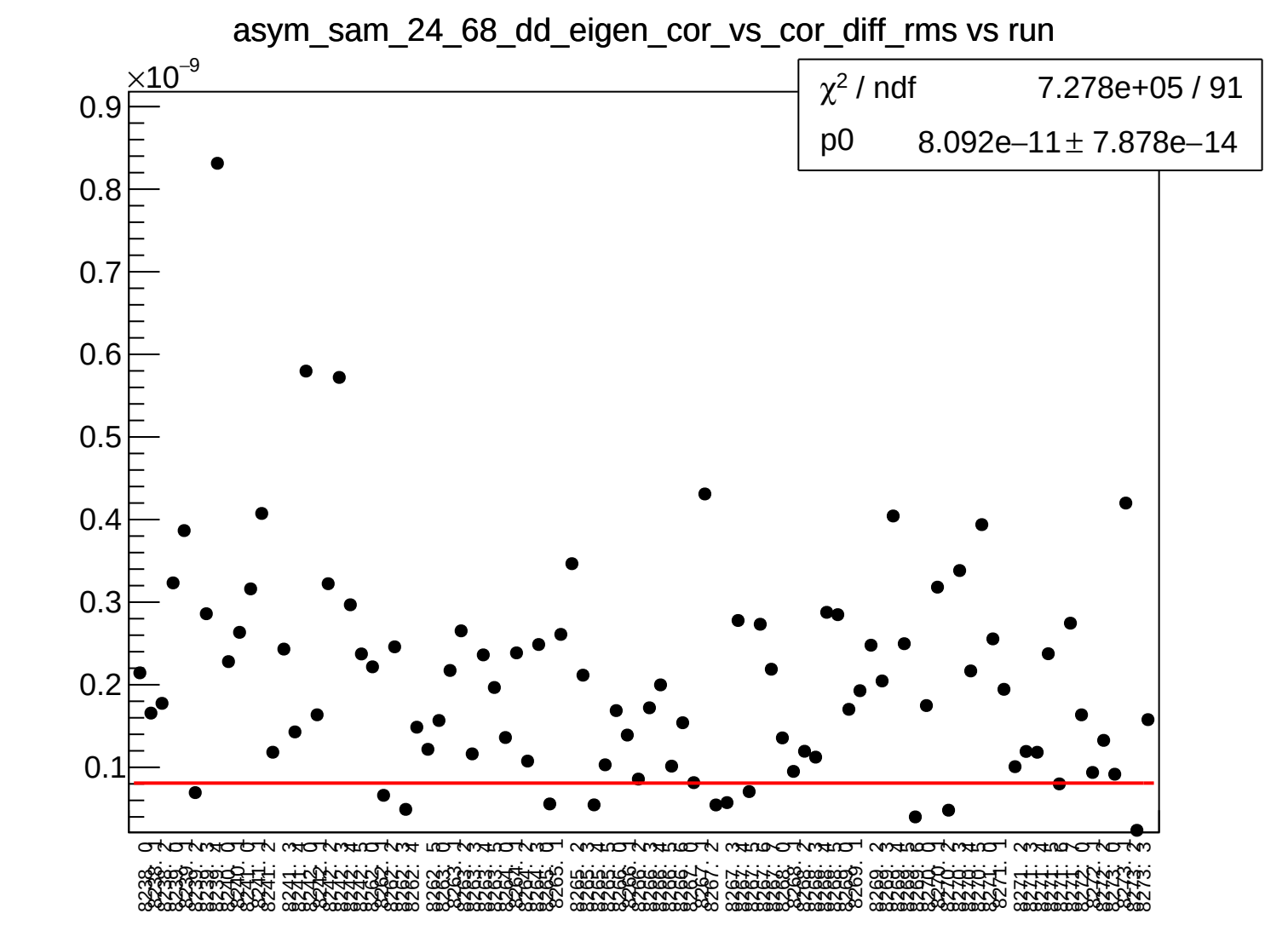

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.018e+04 / 91
p0 44.74 ± 0.03409
75
70
65
60
55
50
45
40
35
30

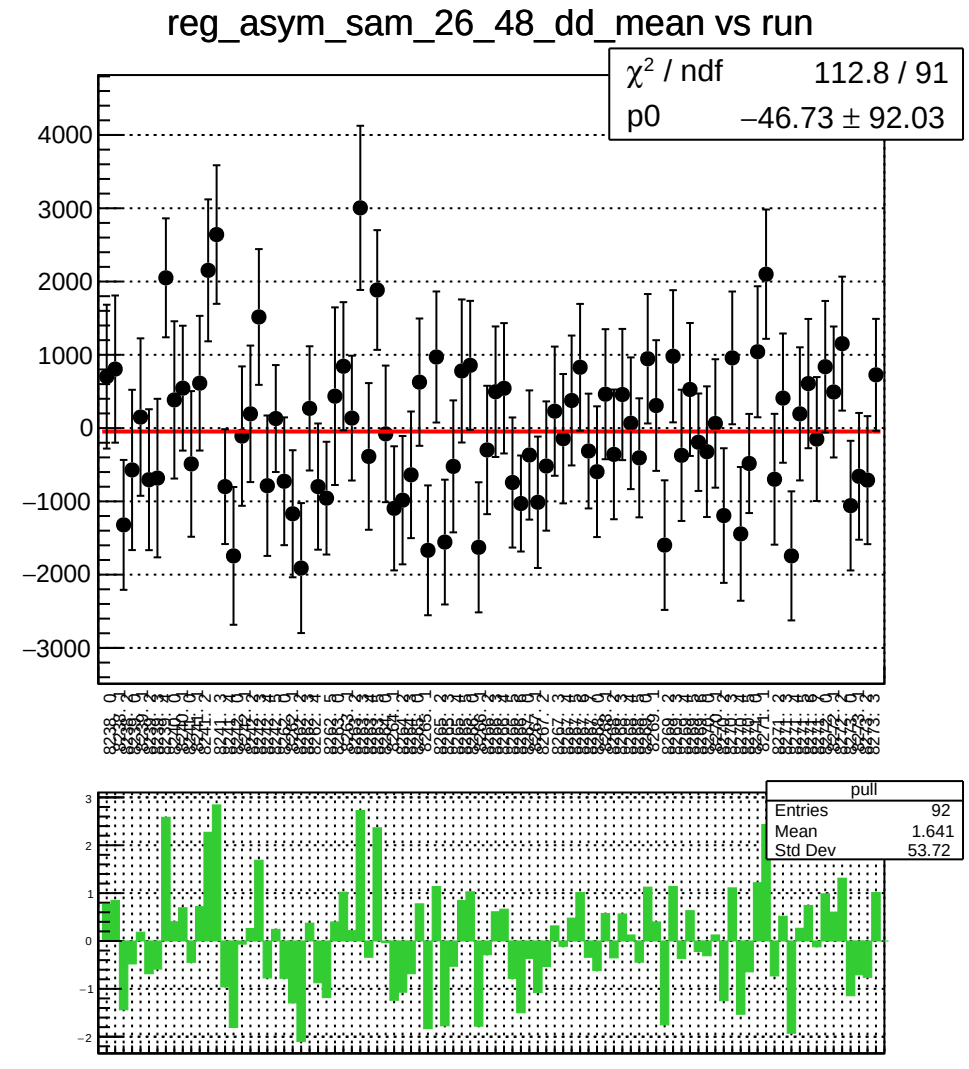

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.54 / 91
p0 0.00934 ± 0.0482
pull
Entries 92
Mean 8.933
Std Dev 0
pull1D
Entries 92
Mean −0.01236
Std Dev 0.9641

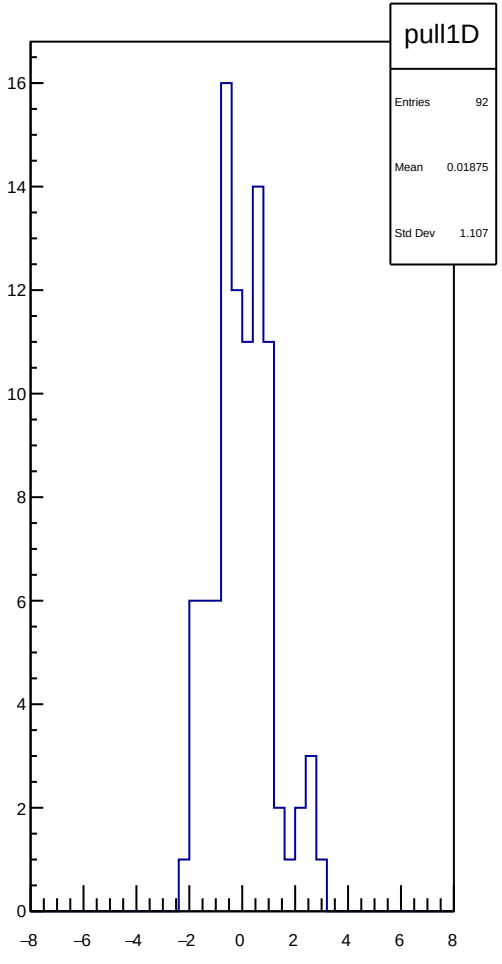

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.018e+04 / 91
p0 44.74 ± 0.03409
75
70
65
60
55
50
45
40
35
30

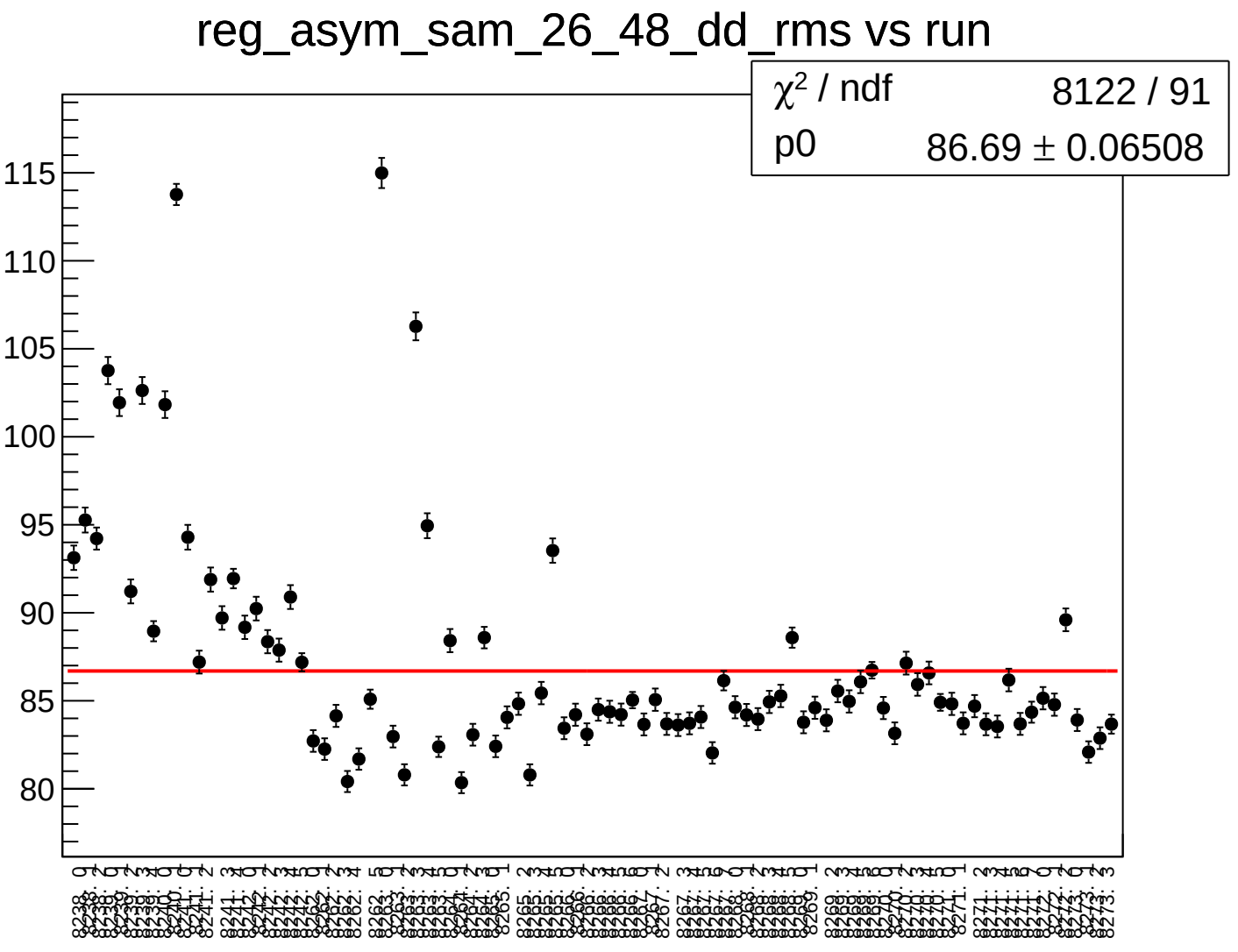

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.23 / 91
p0 1.142e−13 ± 1.114e−13
pull
Entries 92
Mean −2498
Std Dev 0

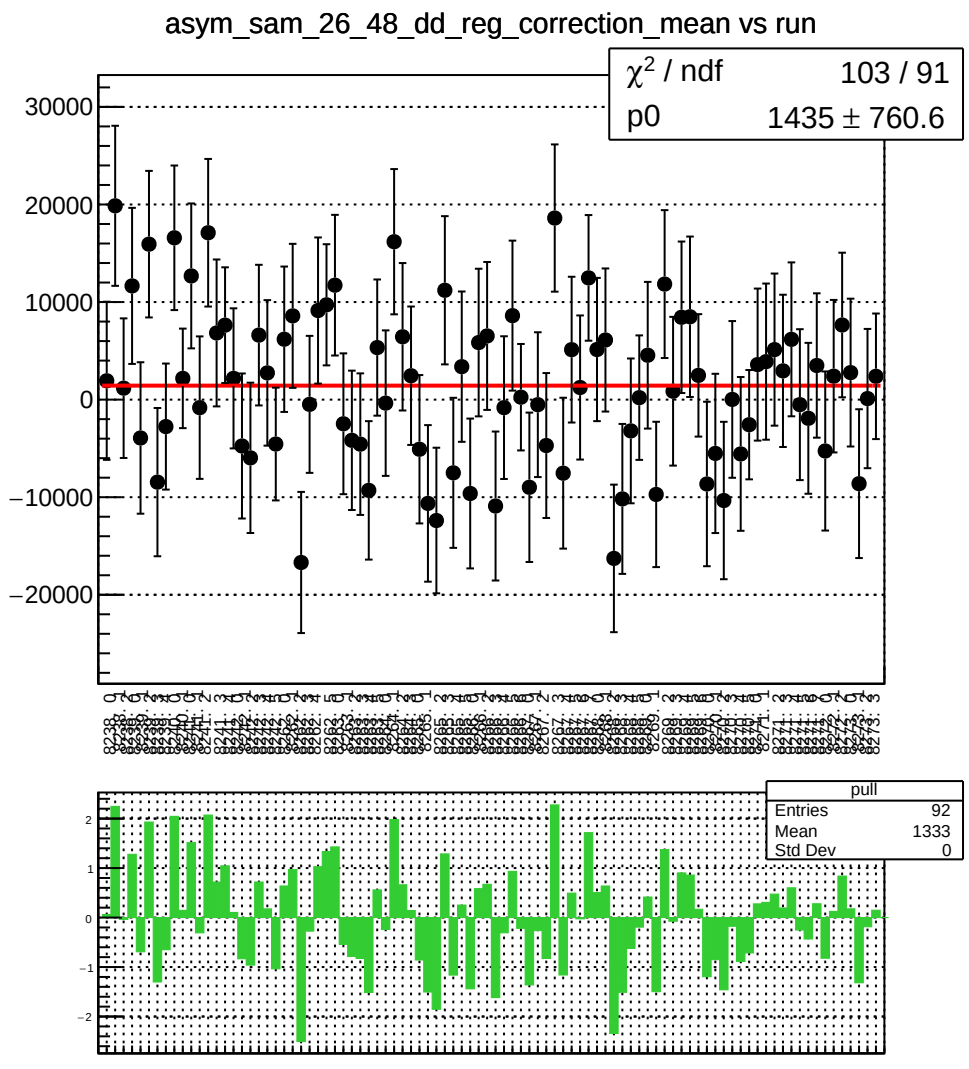

pull1D
Entries 92
Mean 0.002468
Std Dev 1.033

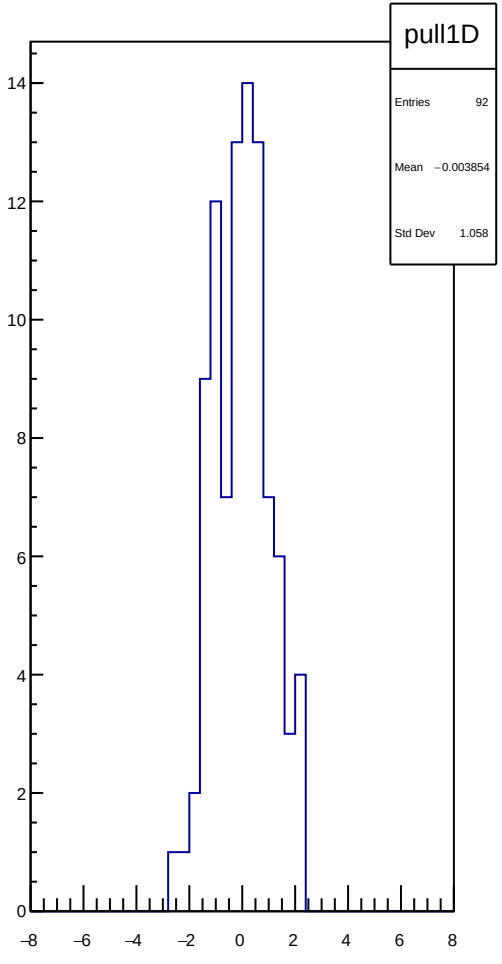

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.278e+05 / 91
p0 8.092e−11 ± 7.878e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

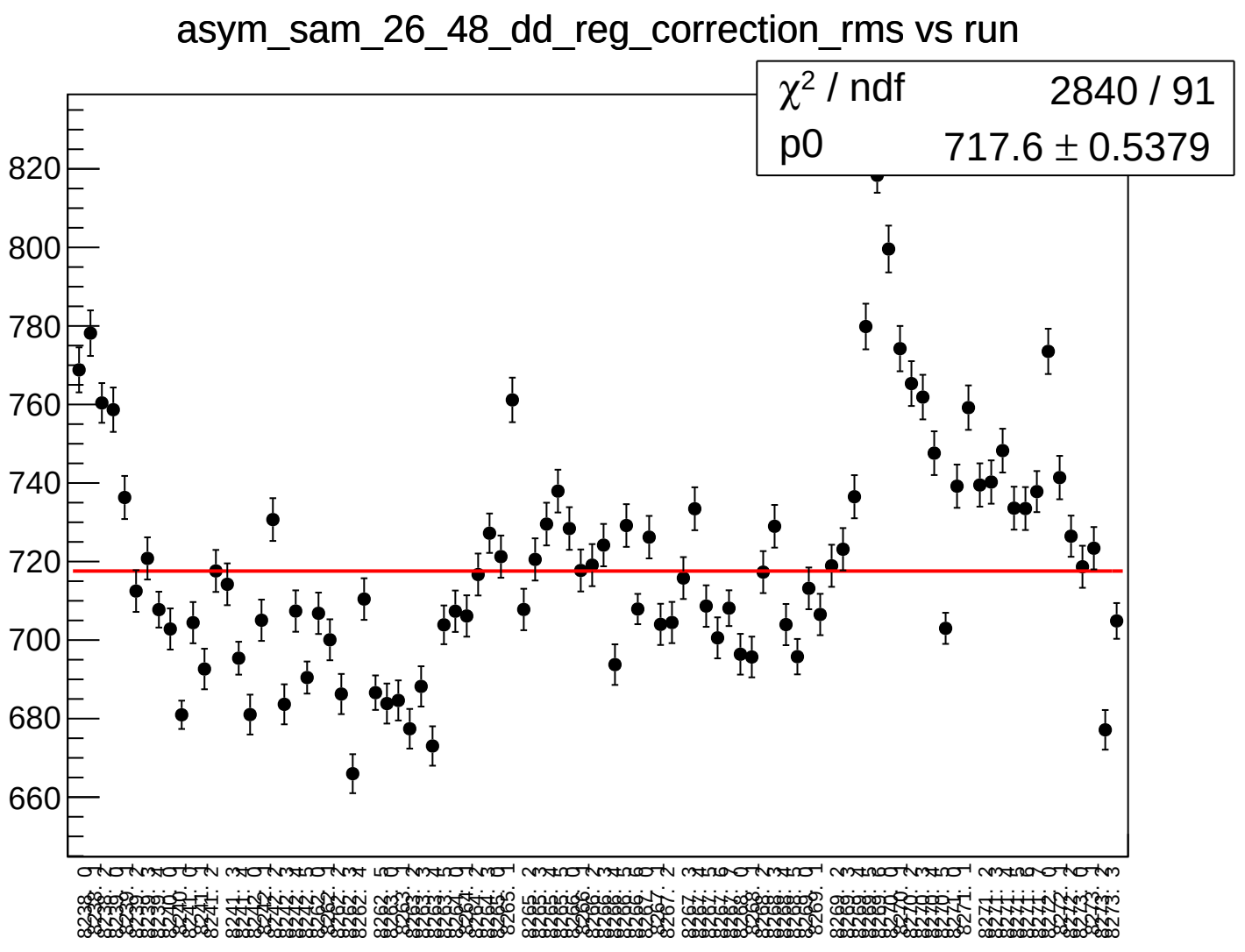

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 112.8 / 91
p0 −46.73 ± 92.03
pull
Entries 92
Mean 1.641
Std Dev 53.72

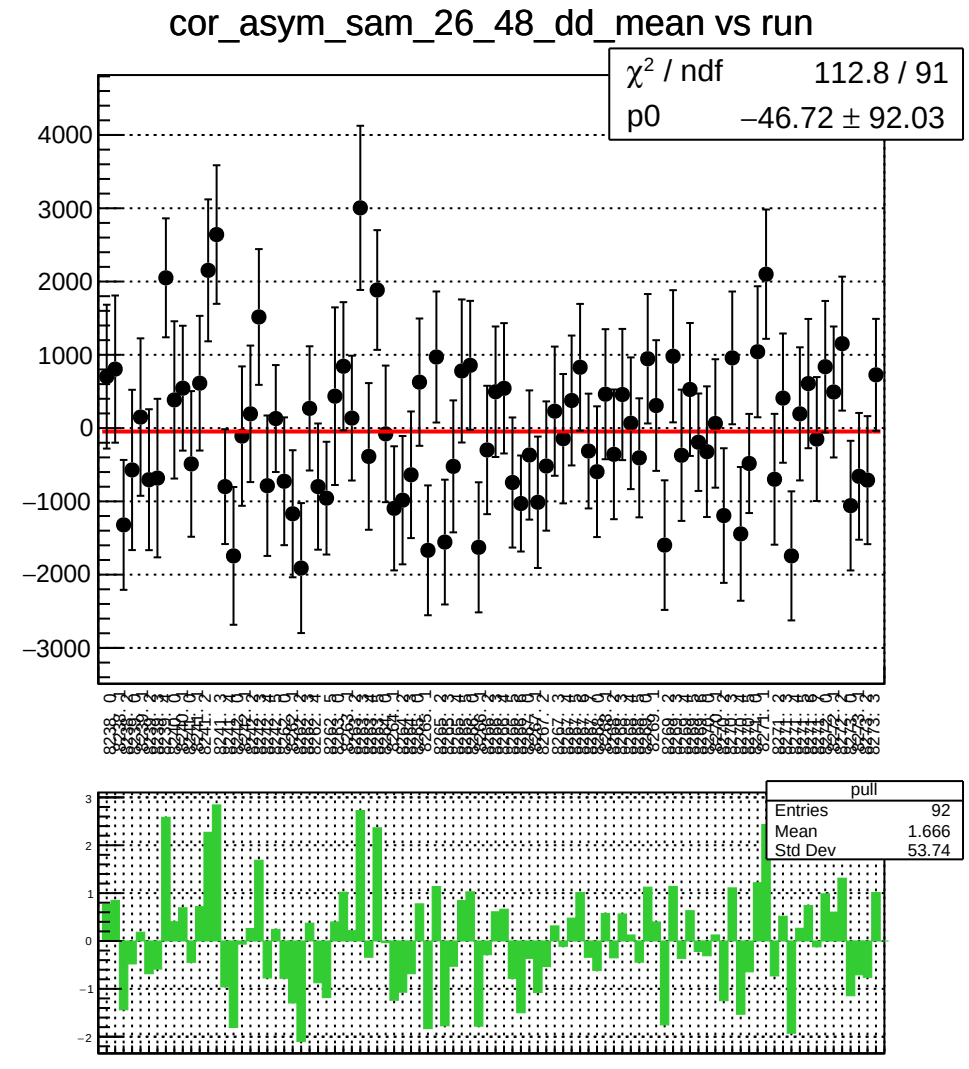

pull1D
Entries 92
Mean 0.01875
Std Dev 1.107

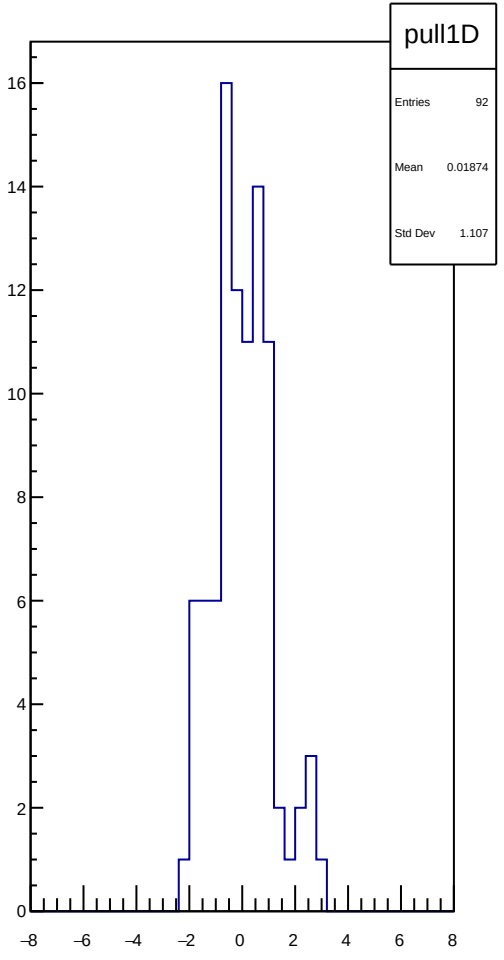

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 8122 / 91
p0 86.69 ± 0.06508
115
110
105
100
95
90
85
80

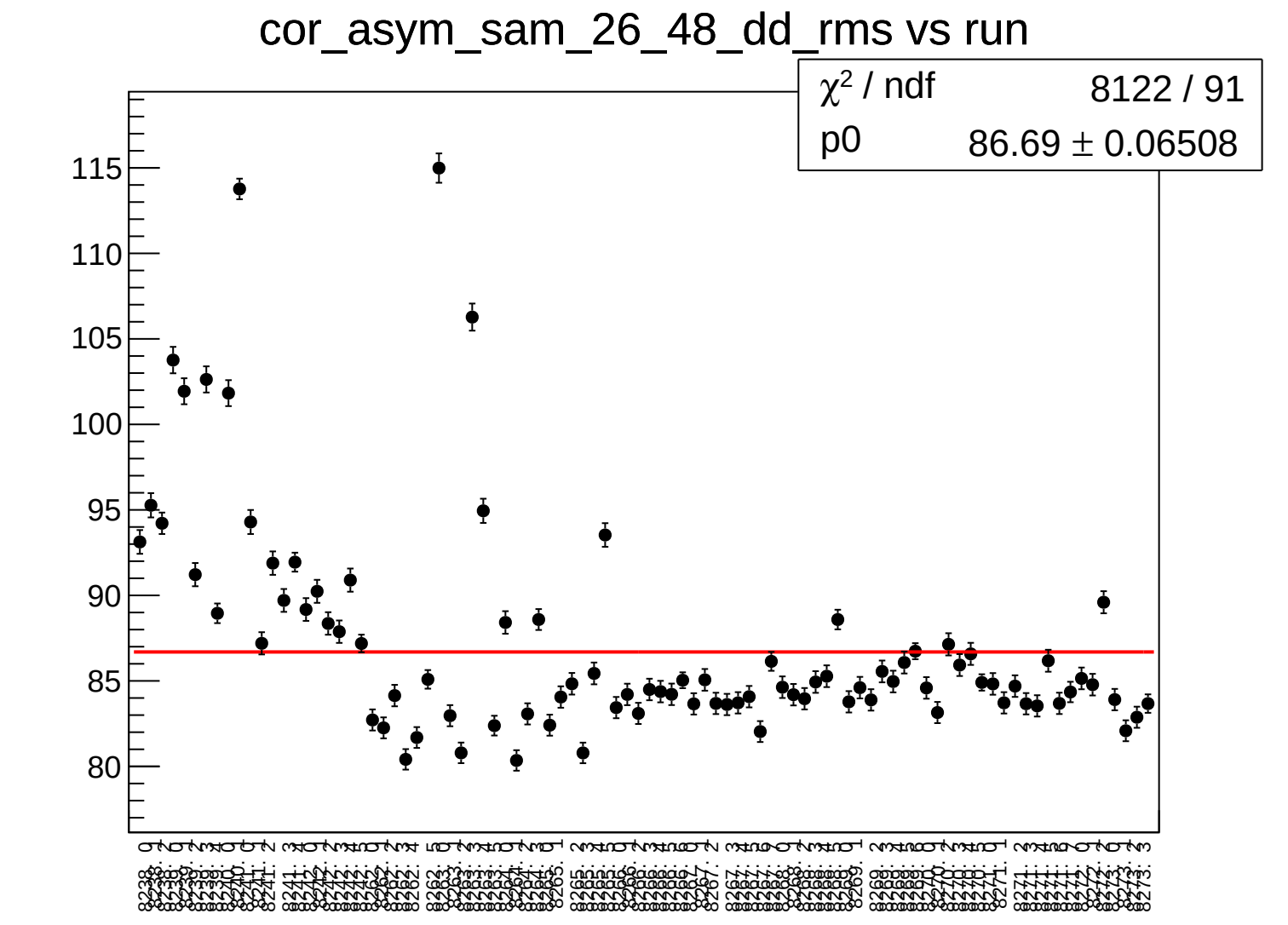

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 103 / 91
p0 1435 ± 760.6
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 1333
Std Dev 0
2
1
0
−1
−2

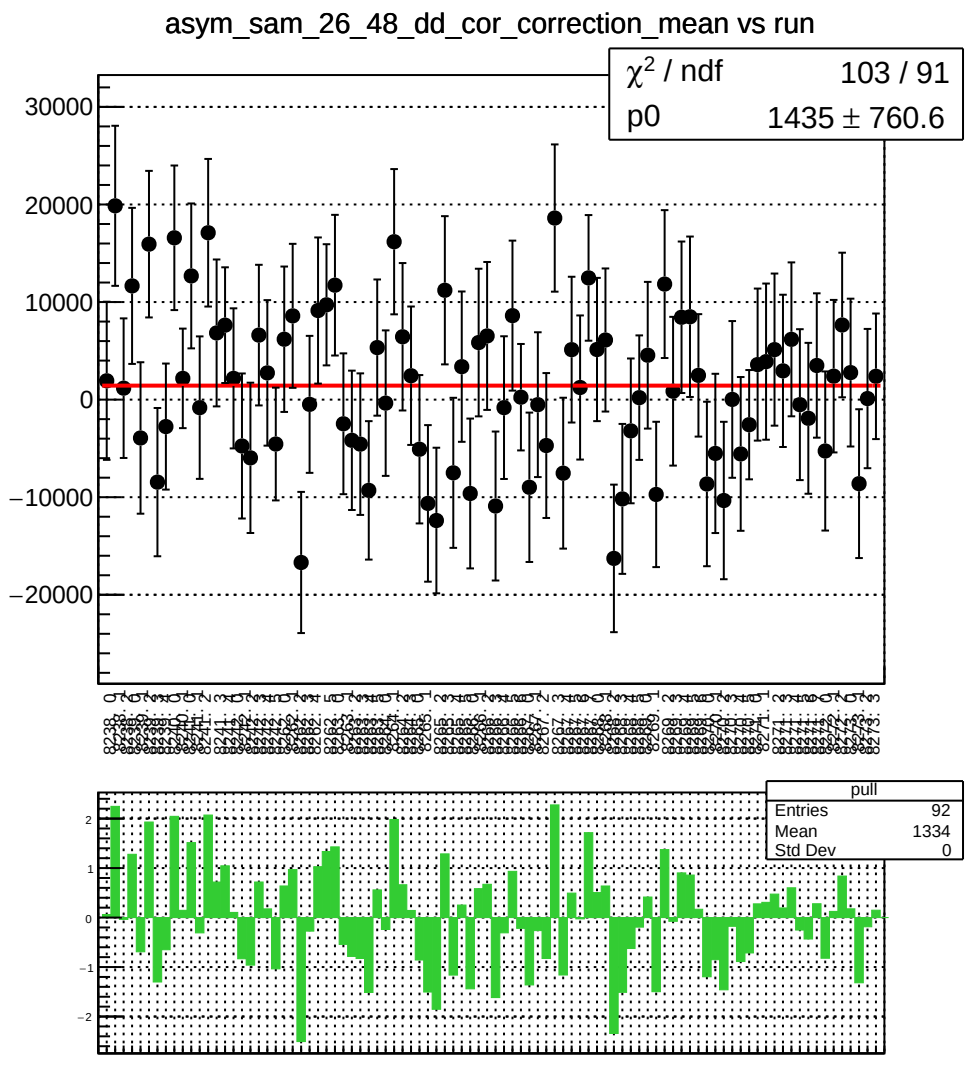

pull1D
Entries 92
Mean −0.003854
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

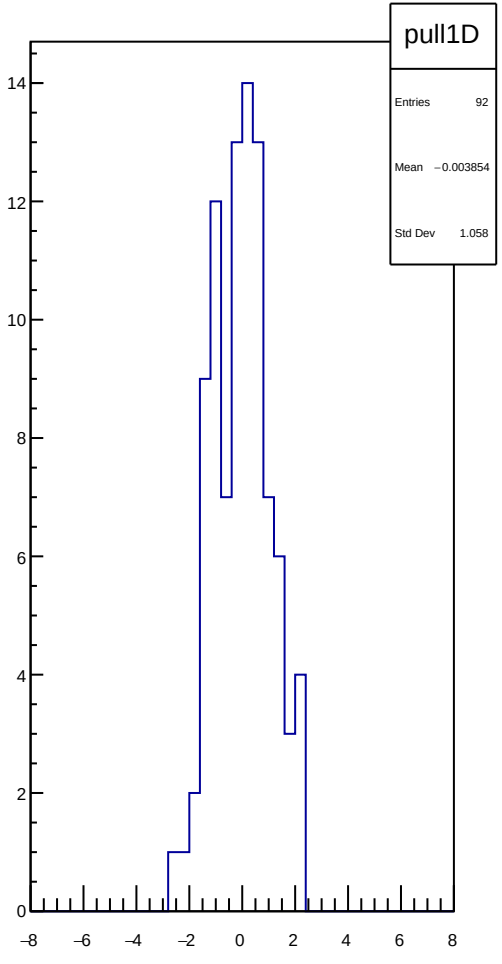

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 2840 / 91
p0 717.6 ± 0.5379
820
800
780
760
740
720
700
680
660

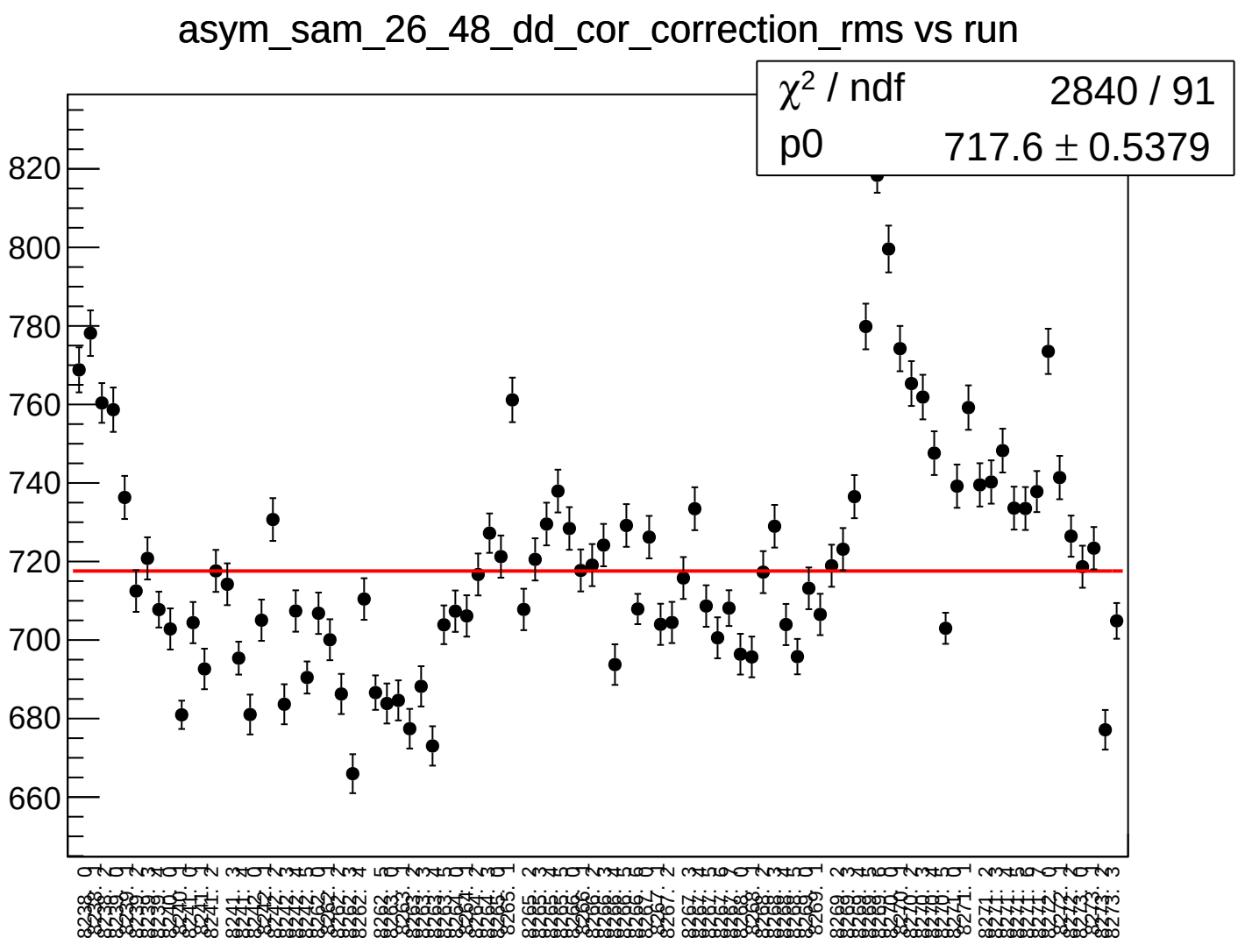

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 112.8 / 91
p0 −46.72 ± 92.03
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean 1.666
Std Dev 53.74
3
2
1
0
−1
−2

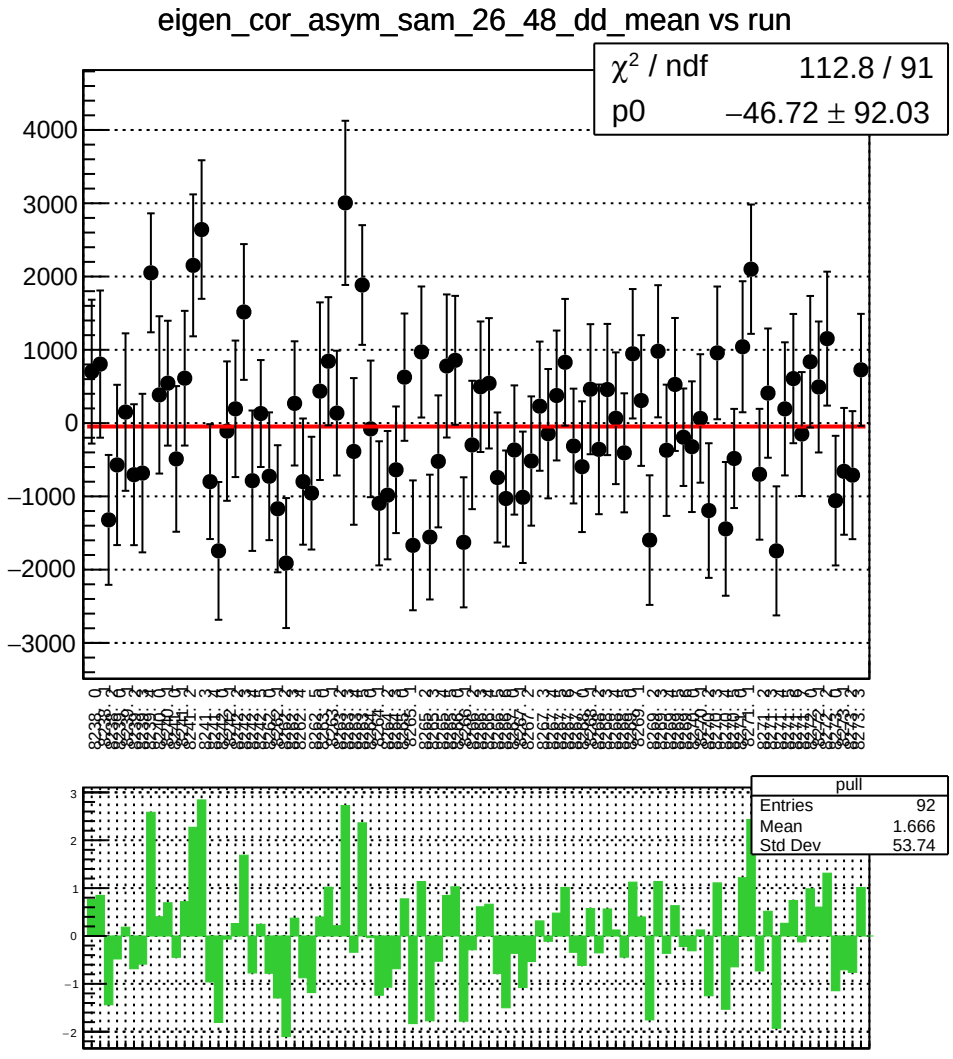

pull1D
Entries 92
Mean 0.01874
Std Dev 1.107
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

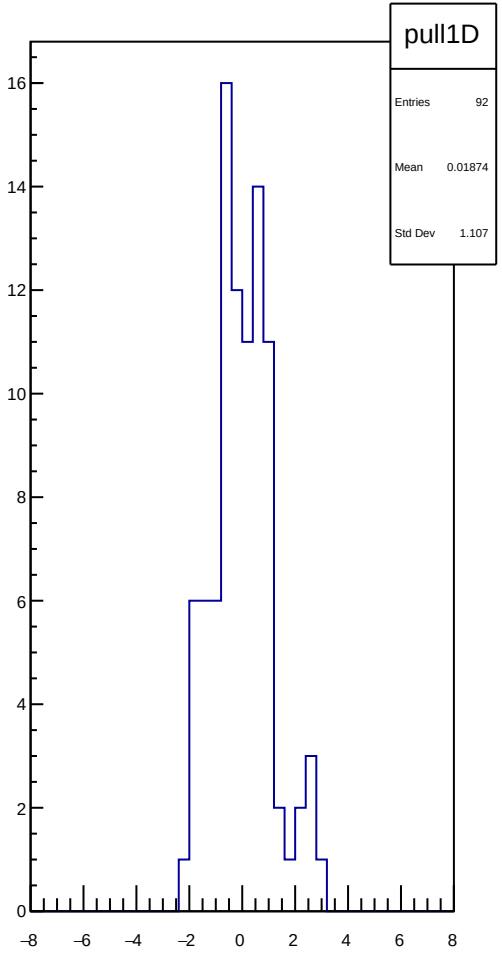

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 8122 / 91
p0 86.69 ± 0.06508
115
110
105
100
95
90
85
80

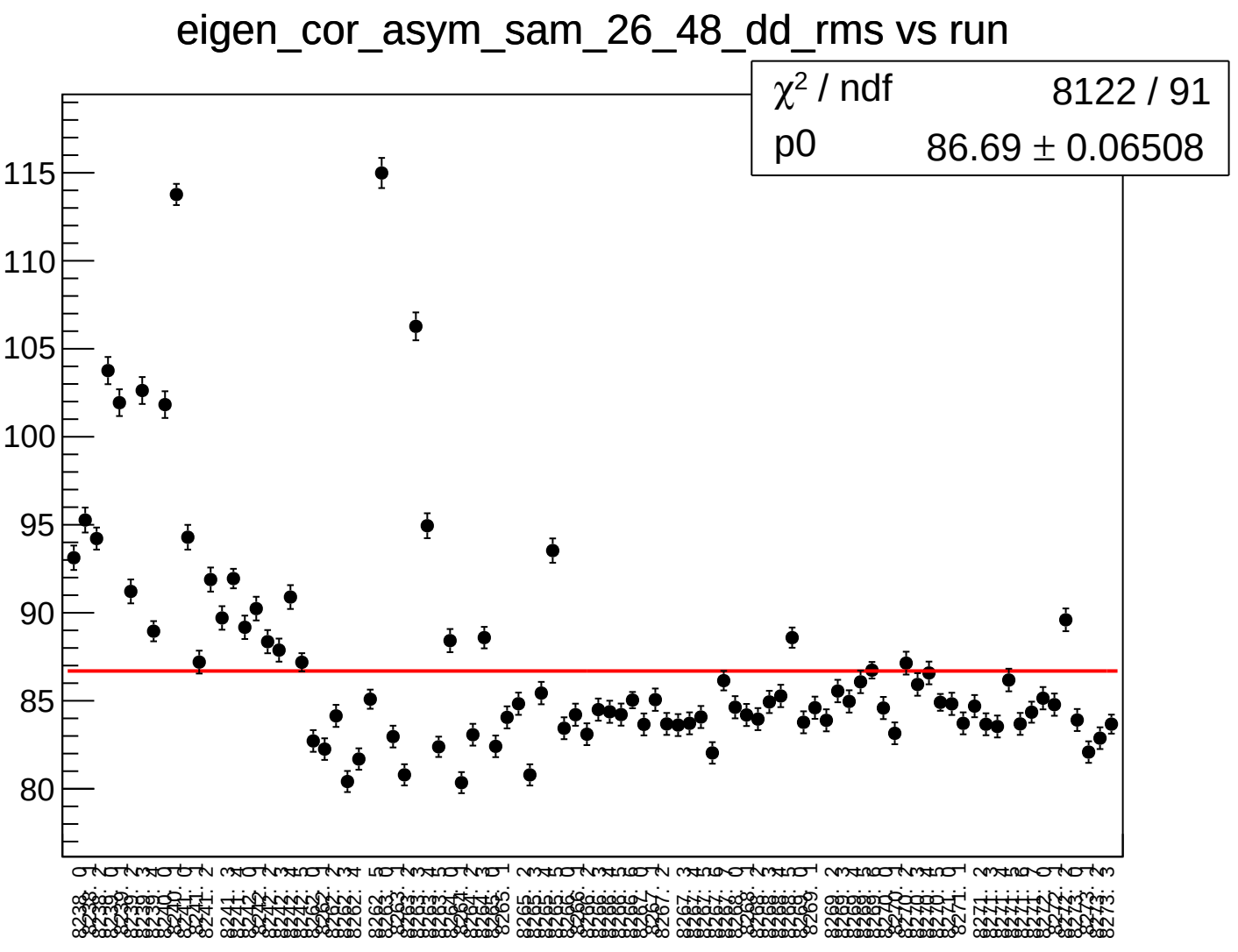

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 103 / 91
p0 1435 ± 760.6
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 1334
Std Dev 0
2
1
0
−1
−2

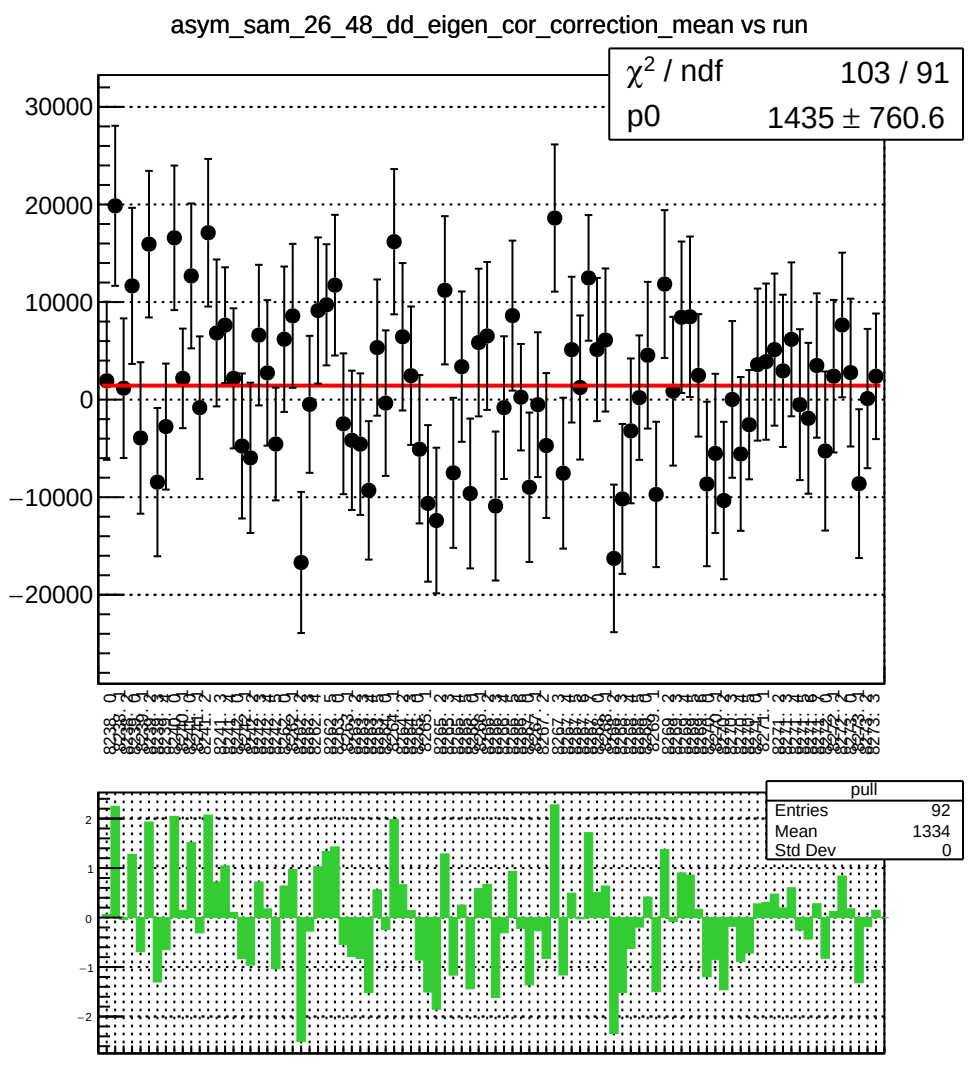

pull1D
Entries 92
Mean −0.003854
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

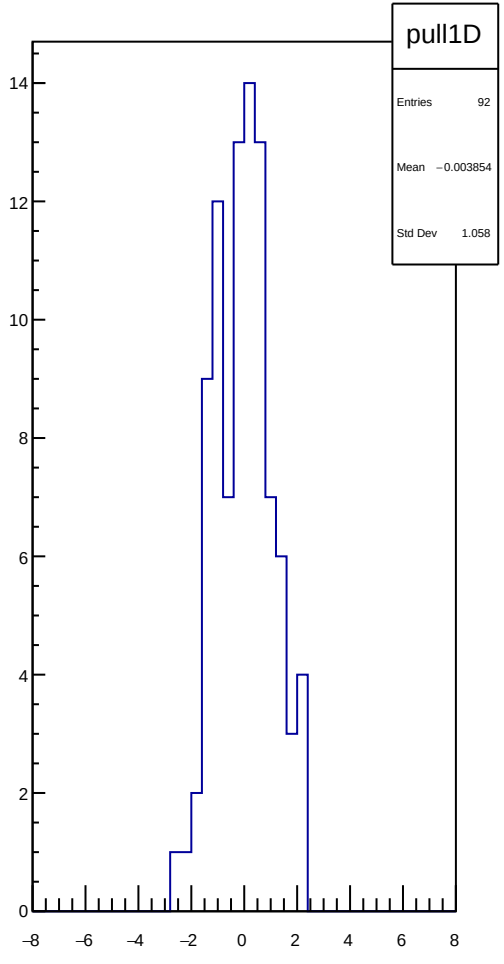

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 2840 / 91
p0 717.6 ± 0.5379
820
800
780
760
740
720
700
680
660

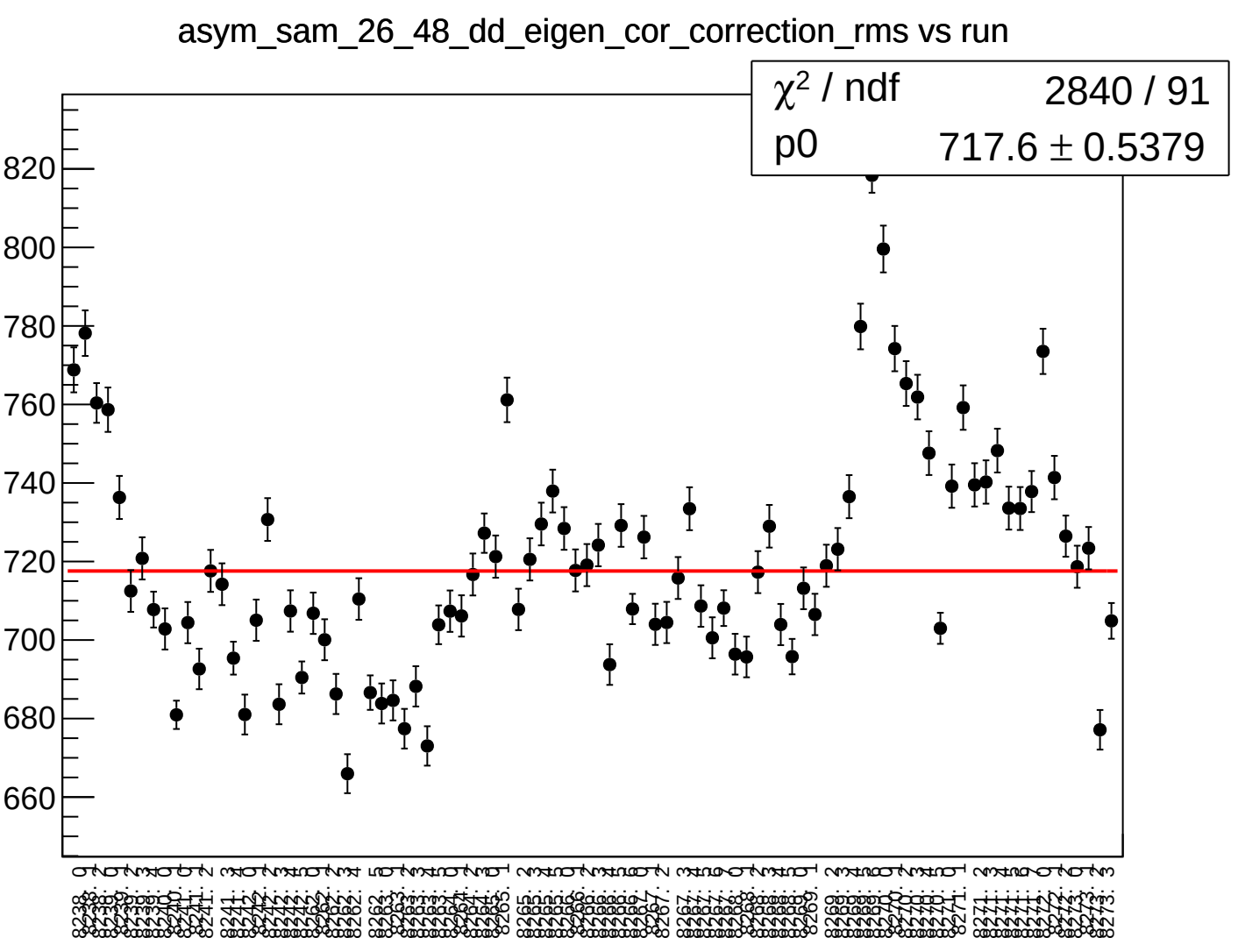

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 112.8 / 91
p0 −46.72 ± 92.03
pull
Entries 92
Mean 1.666
Std Dev 53.74

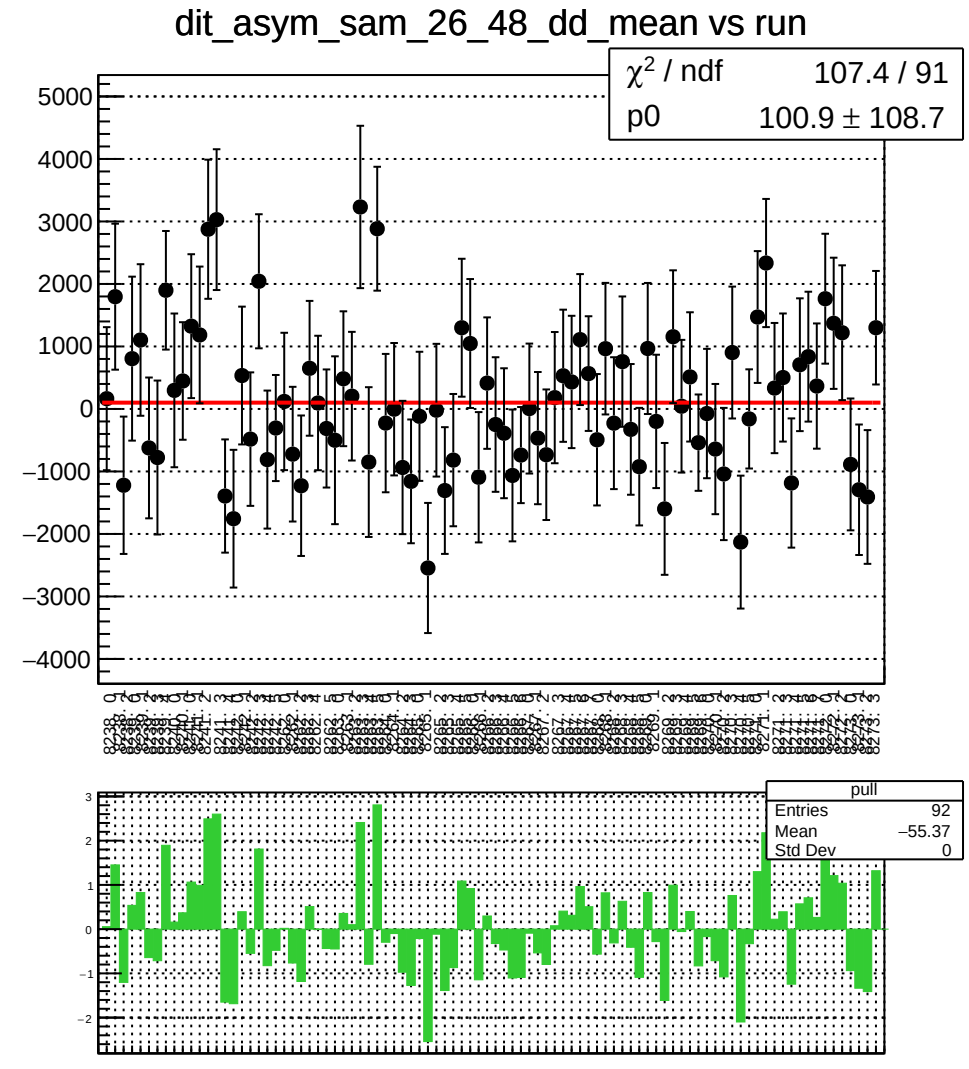

pull1D
Entries 92
Mean 0.01874
Std Dev 1.107

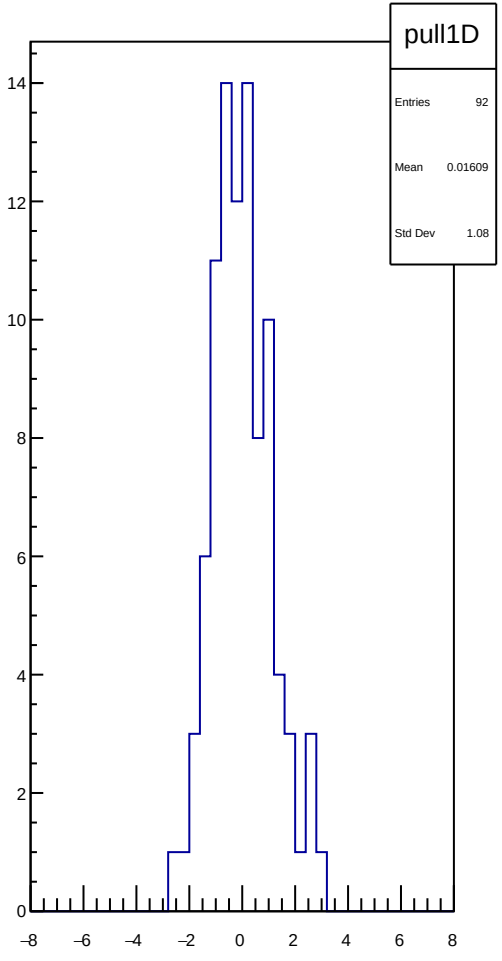

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 8122 / 91
p0 86.69 ± 0.06508
115
110
105
100
95
90
85
80

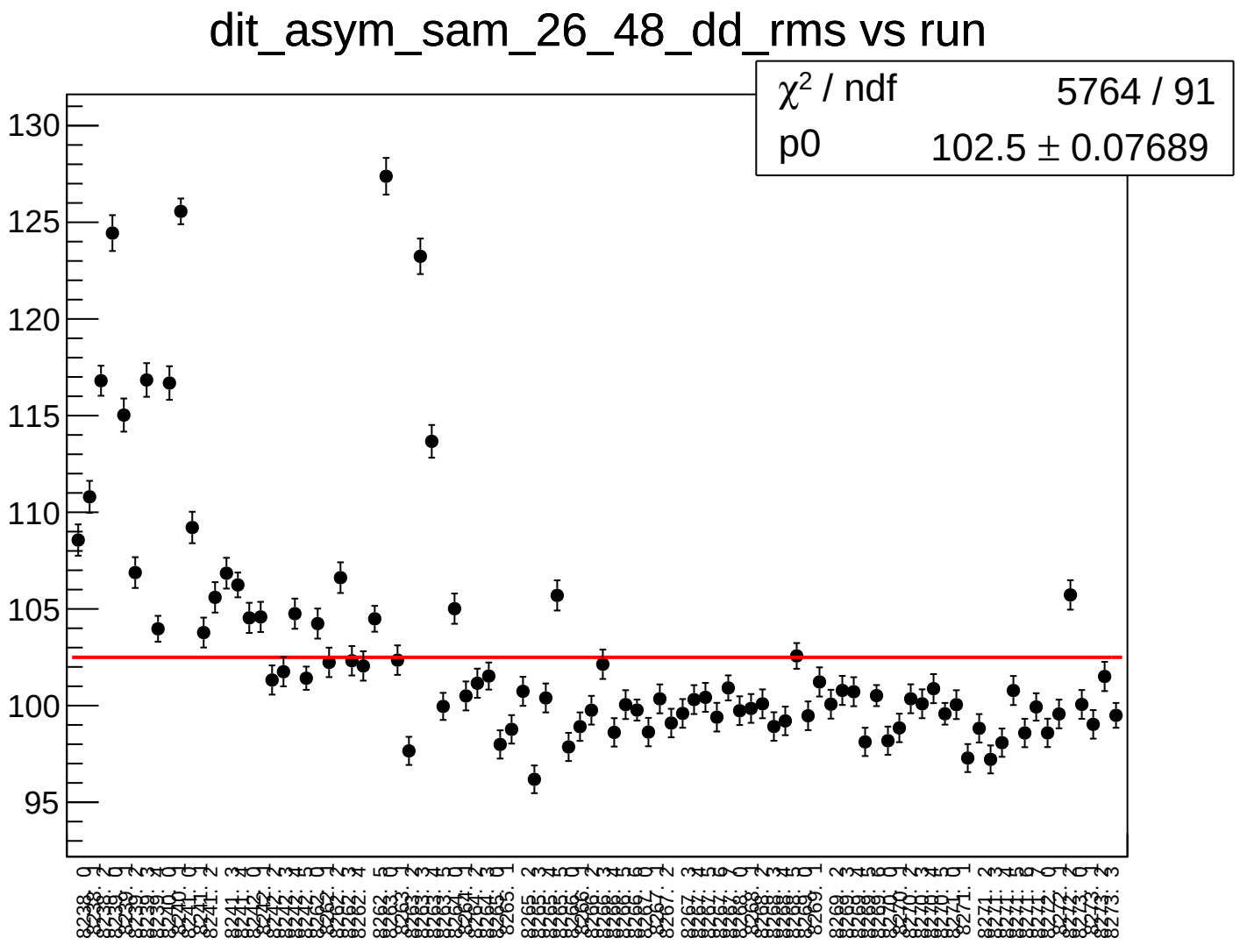

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 103 / 91
p0 1435 ± 760.6
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 1334
Std Dev 0
2
1
0
−1
−2

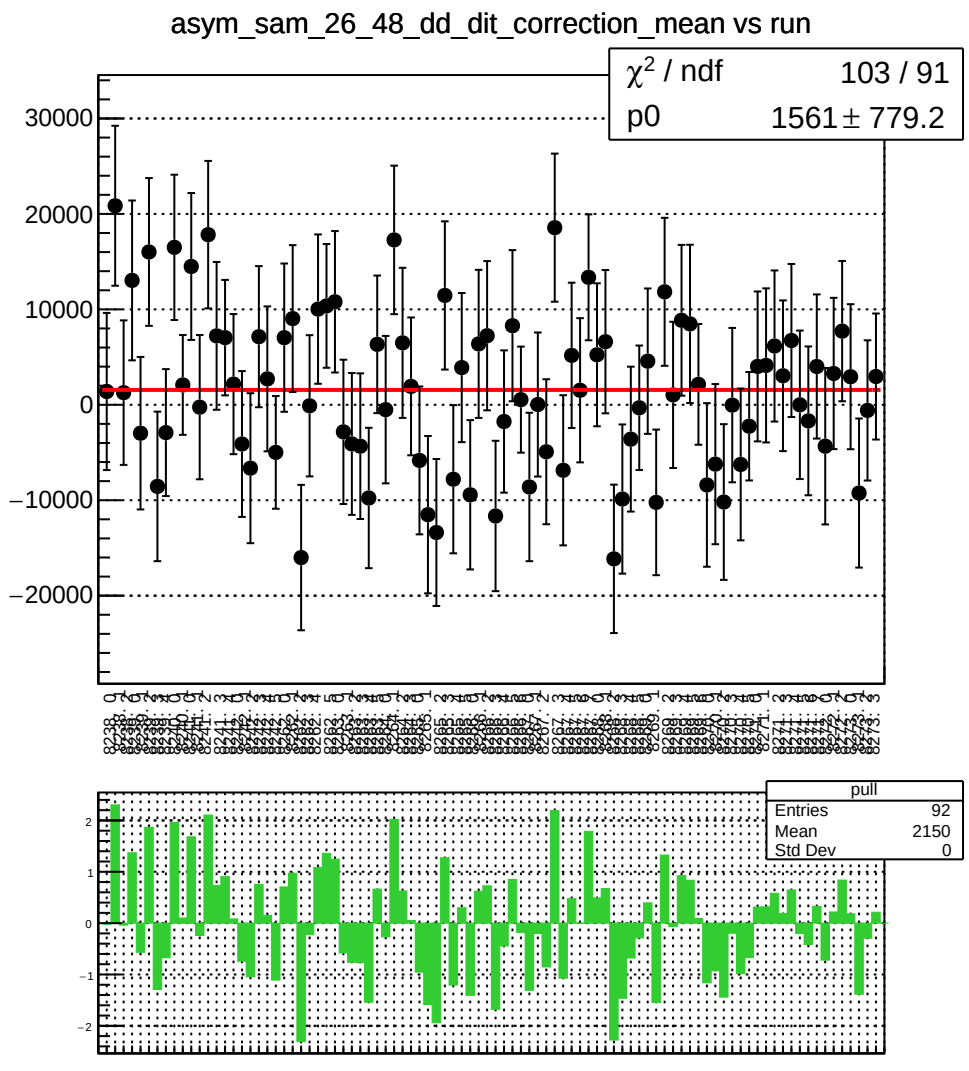

pull1D
Entries 92
Mean −0.003854
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

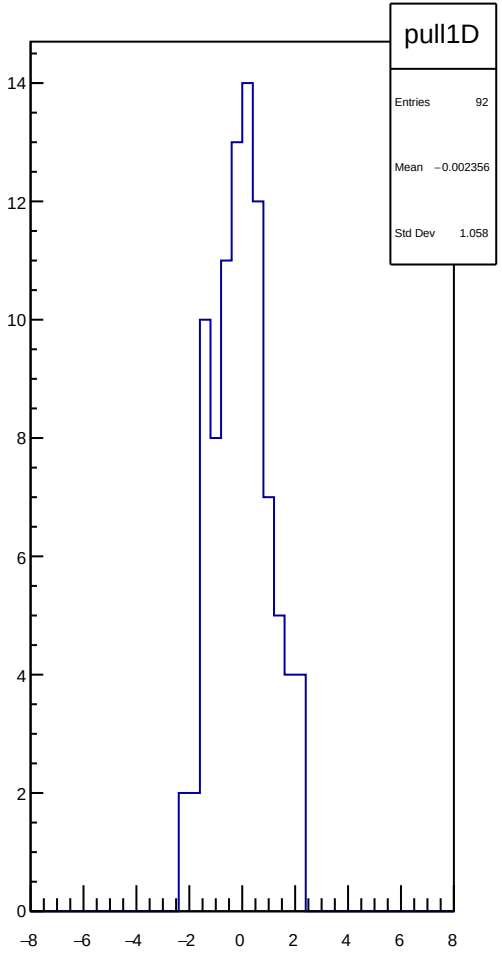

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2840 / 91
p0 717.6 ± 0.5379
820
800
780
760
740
720
700
680
660

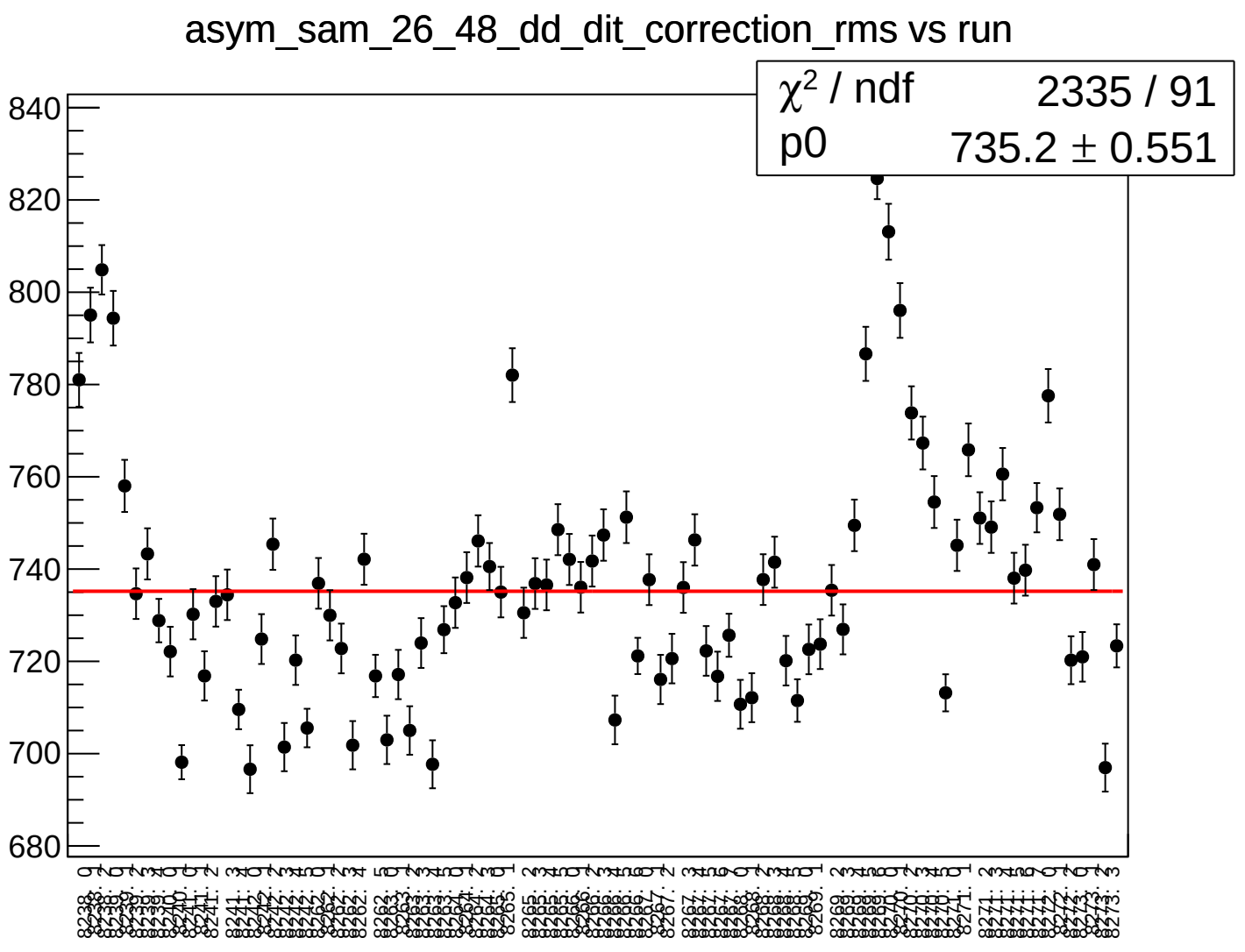

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 107.4 / 91
p0 100.9 ± 108.7
pull
Entries 92
Mean −55.37
Std Dev 0

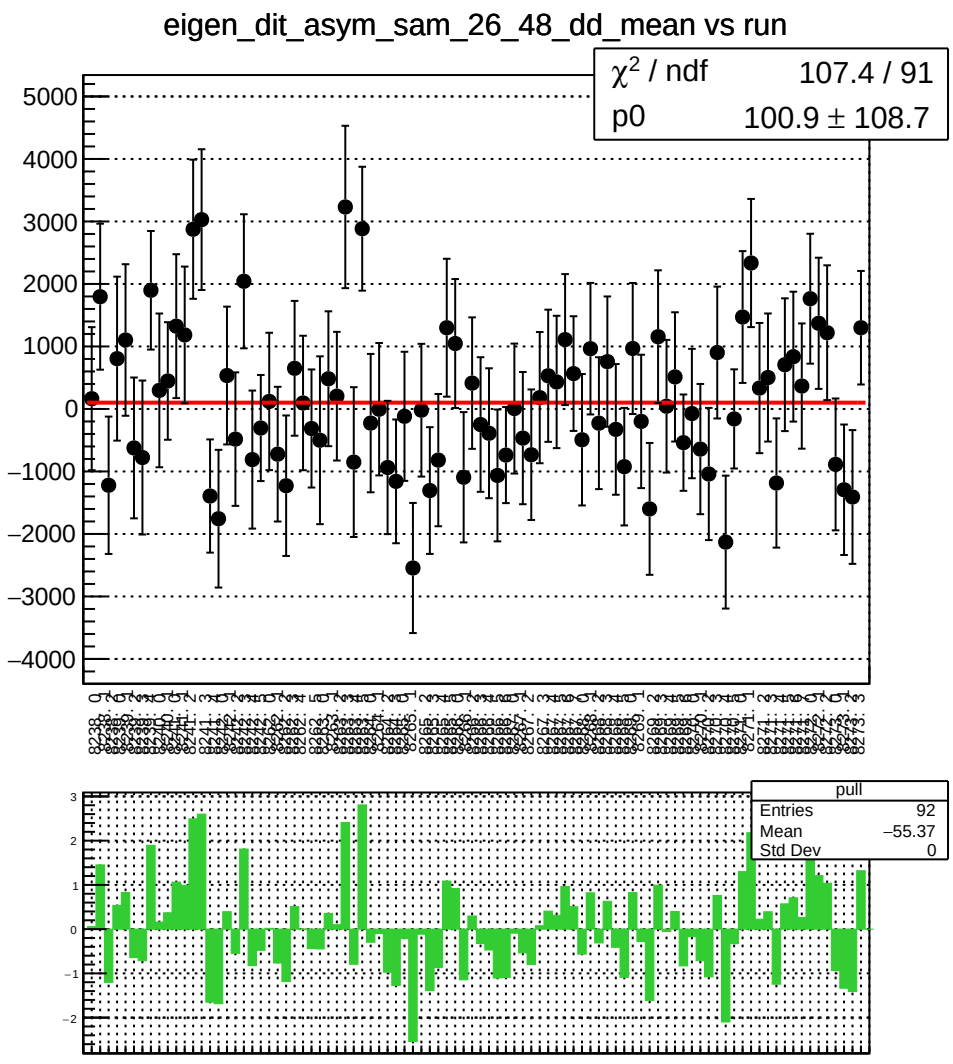

pull1D
Entries 92
Mean 0.01609
Std Dev 1.08

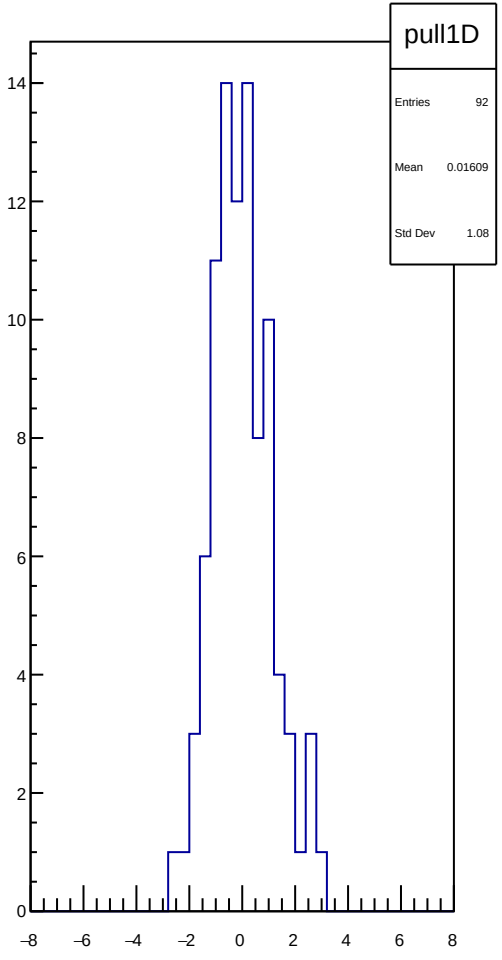

dit_asym_sam_26_48_dd_rms vs run
$\chi^2$ / ndf 5764 / 91
p0 102.5 ± 0.07689
130
125
120
115
110
105
100
95

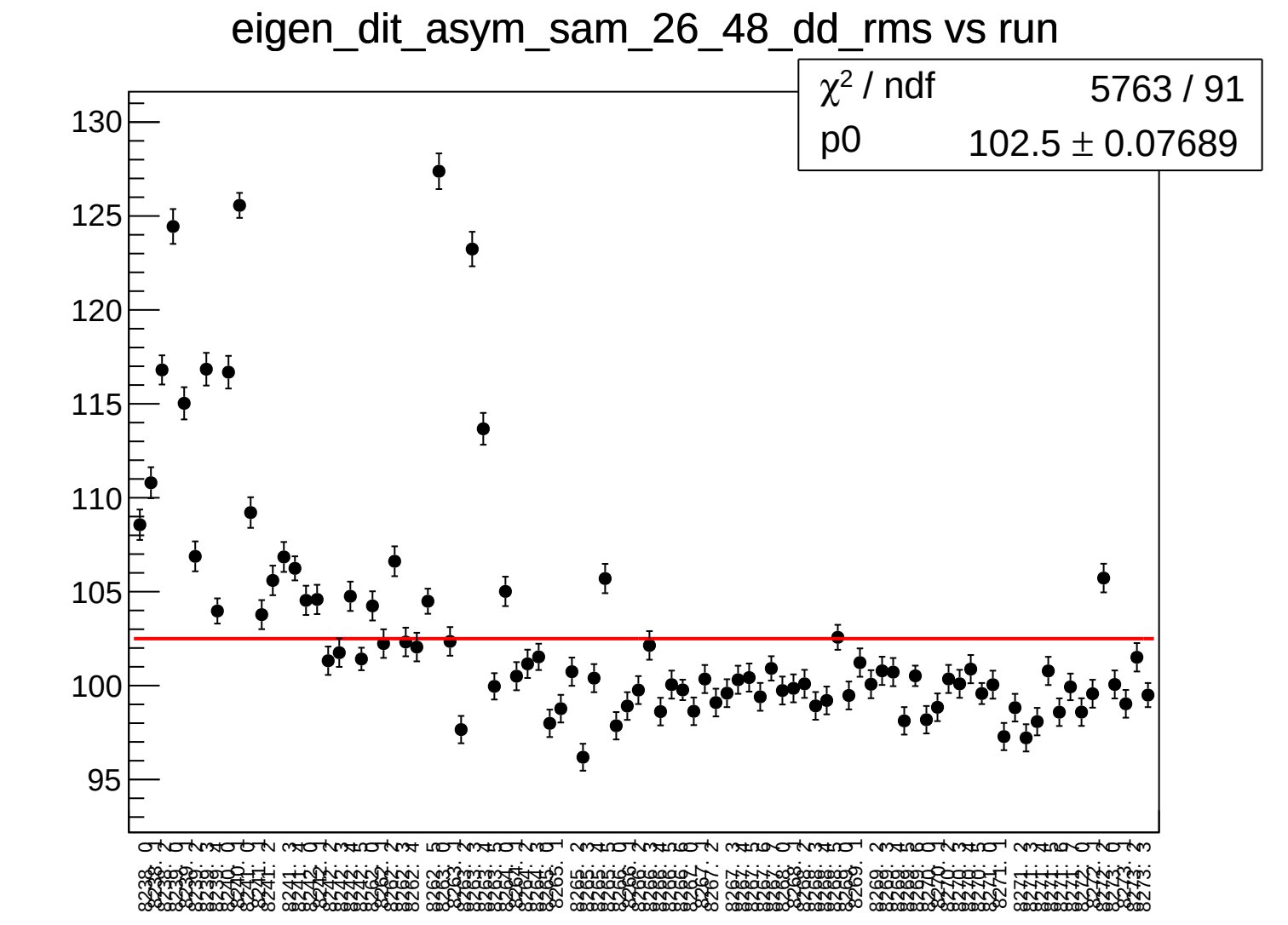

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 103 / 91
p0 1561 ± 779.2
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 2150
Std Dev 0
2
1
0
−1
−2

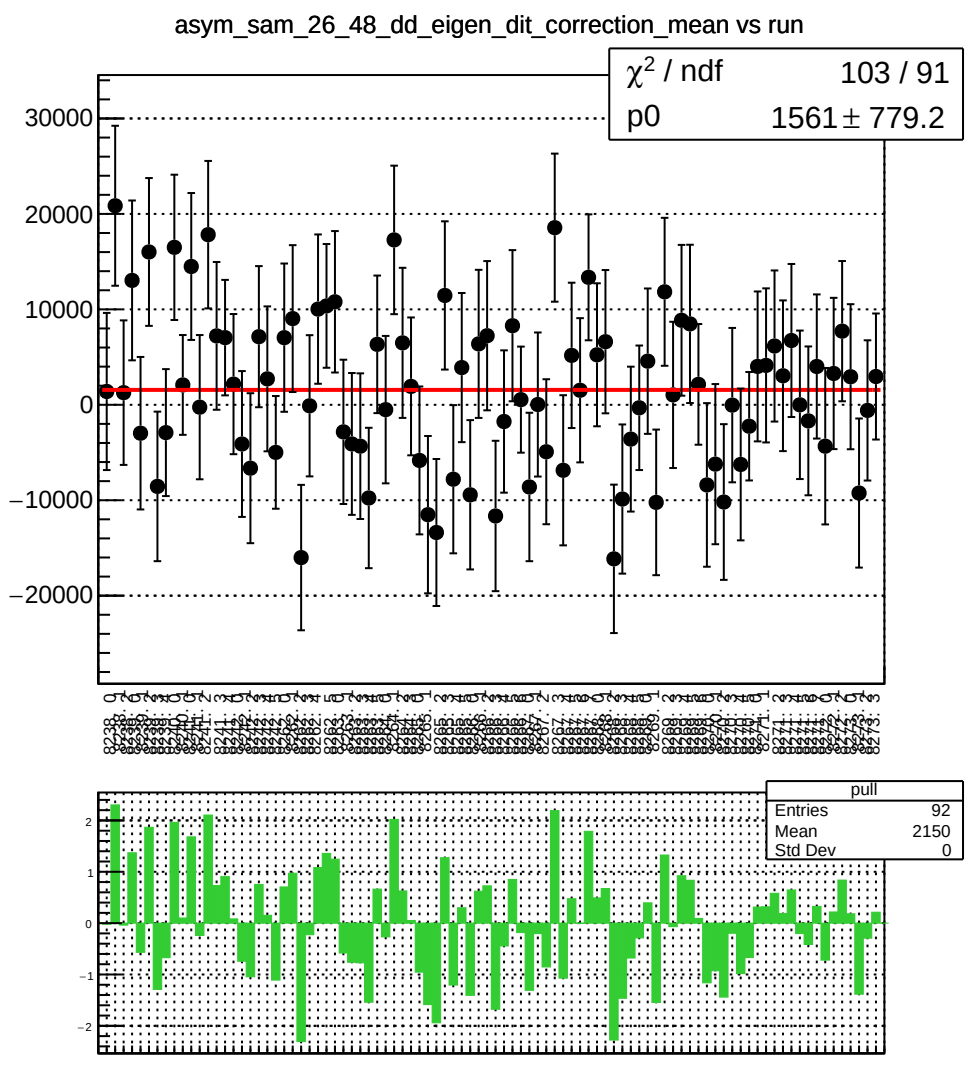

pull1D
Entries 92
Mean −0.002356
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

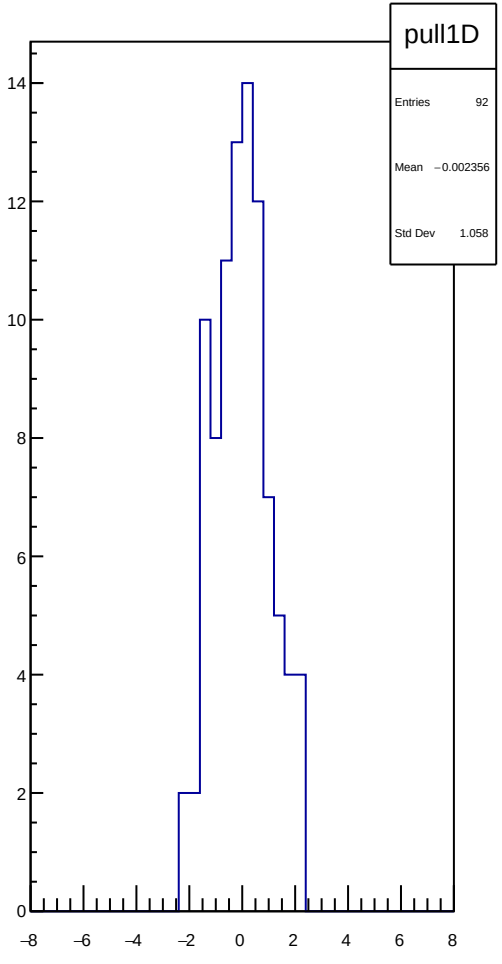

asym_sam_26_48_dd_dit_correction_rms vs run
$\chi^2$ / ndf 2335 / 91
p0 735.2 ± 0.551
840
820
800
780
760
740
720
700
680

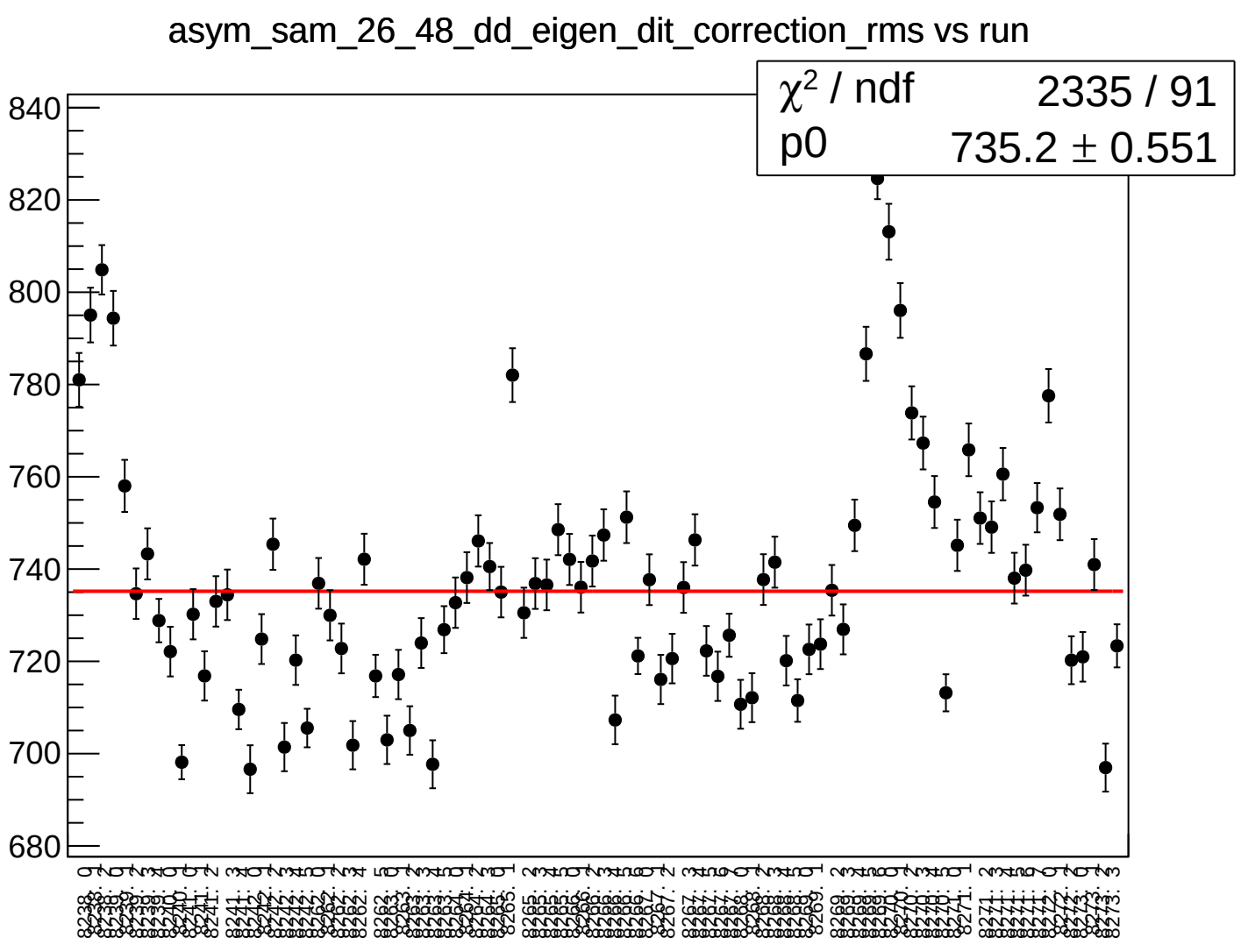

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 107.4 / 91
p0 100.9 ± 108.7
pull
Entries 92
Mean −55.37
Std Dev 0

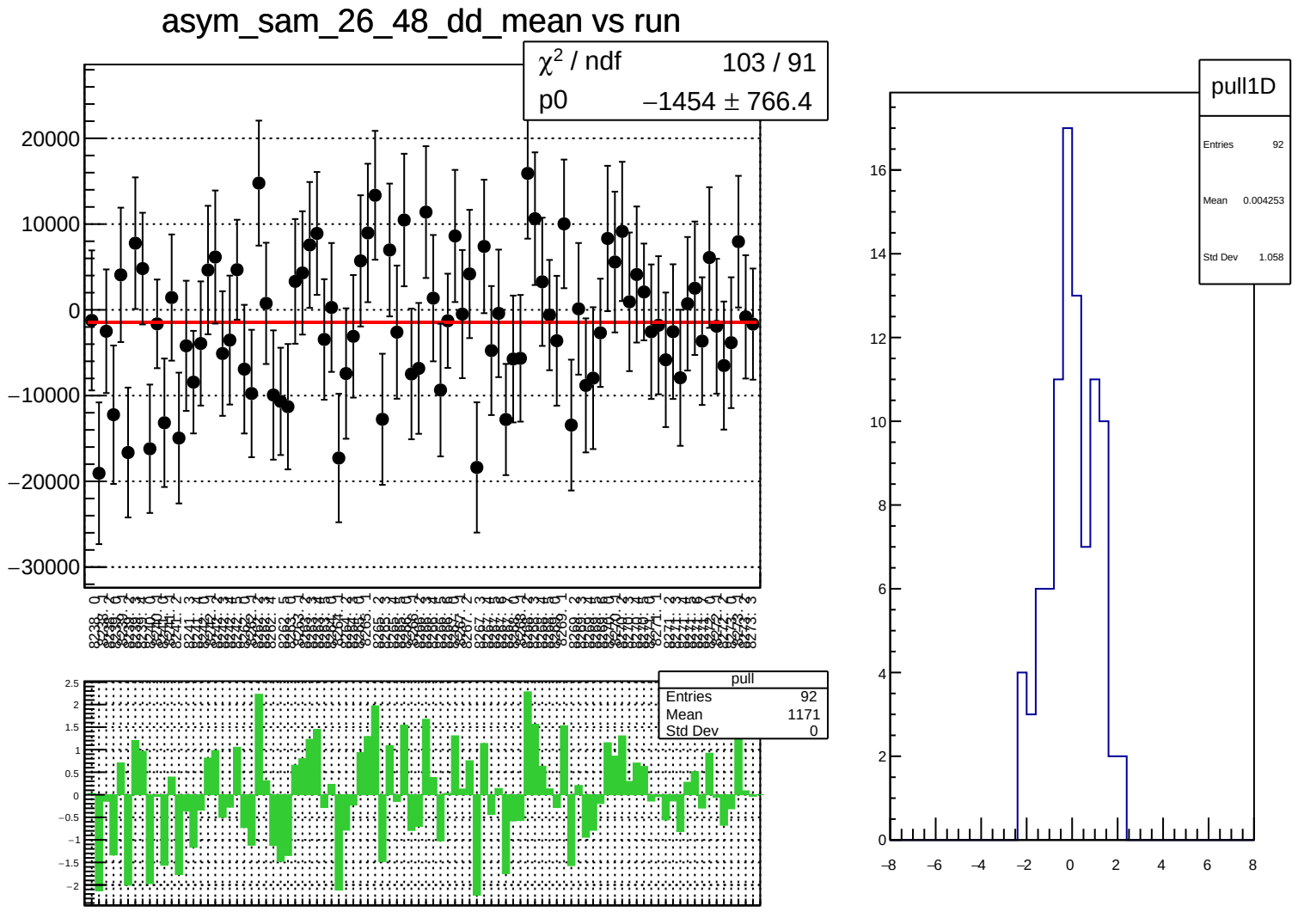

pull1D
Entries 92
Mean 0.01609
Std Dev 1.08

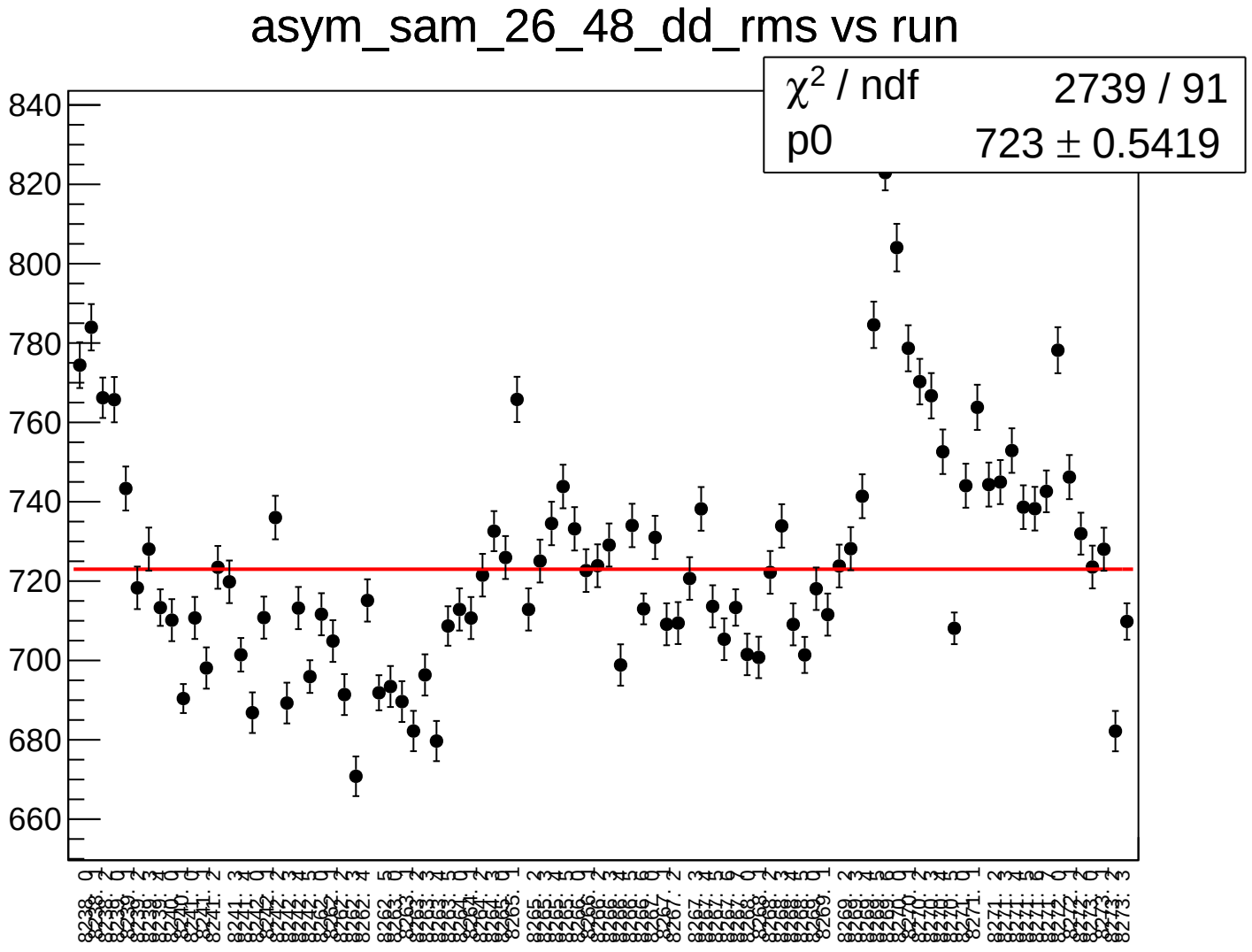

eigen_dit_asym_sam_26_48_dd_rms vs run
$\chi^2$ / ndf 5763 / 91
p0 102.5 ± 0.07689
130
125
120
115
110
105
100
95

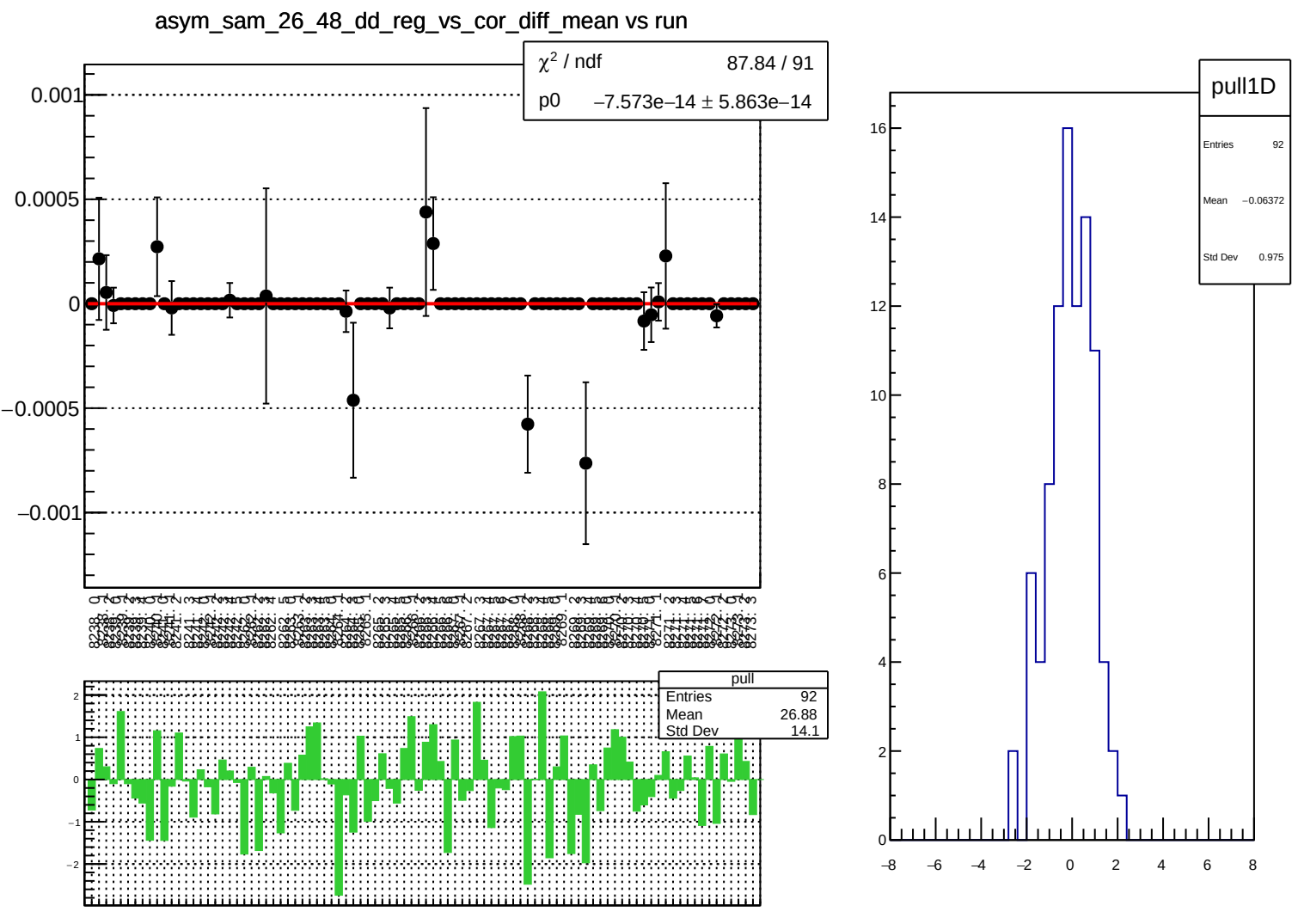

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 103 / 91
p0 1561 ± 779.2
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 2150
Std Dev 0
2
1
0
−1
−2

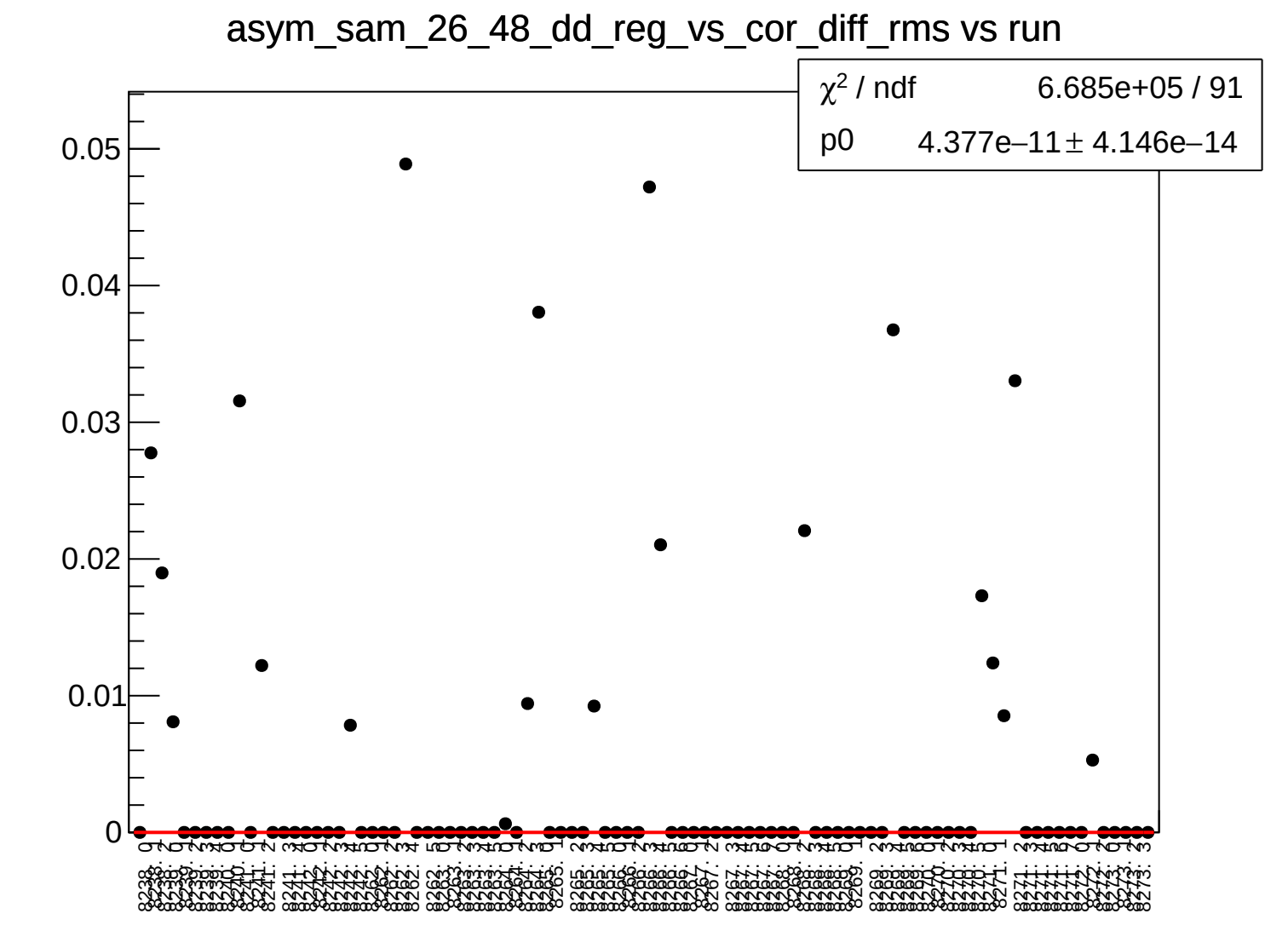

pull1D
Entries 92
Mean −0.002356
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

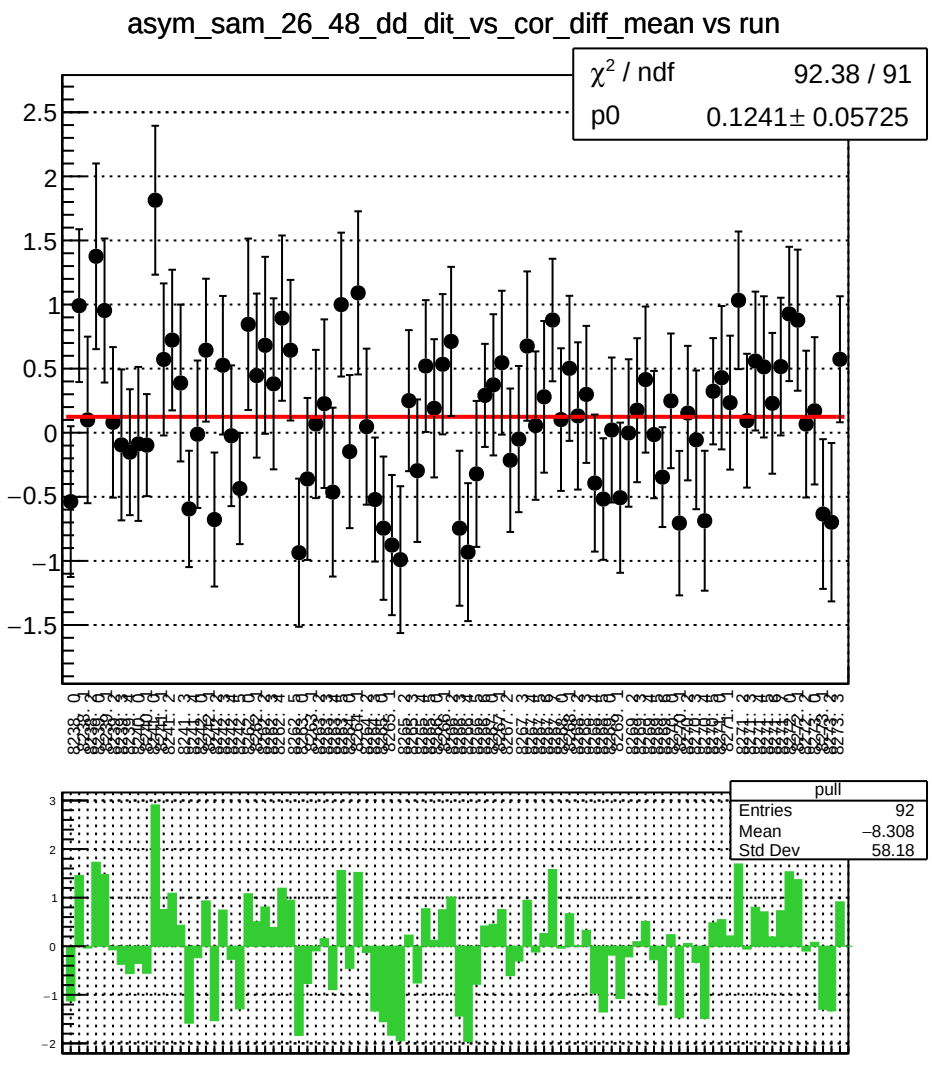

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2335 / 91
p0 735.2 ± 0.551
840
820
800
780
760
740
720
700
680

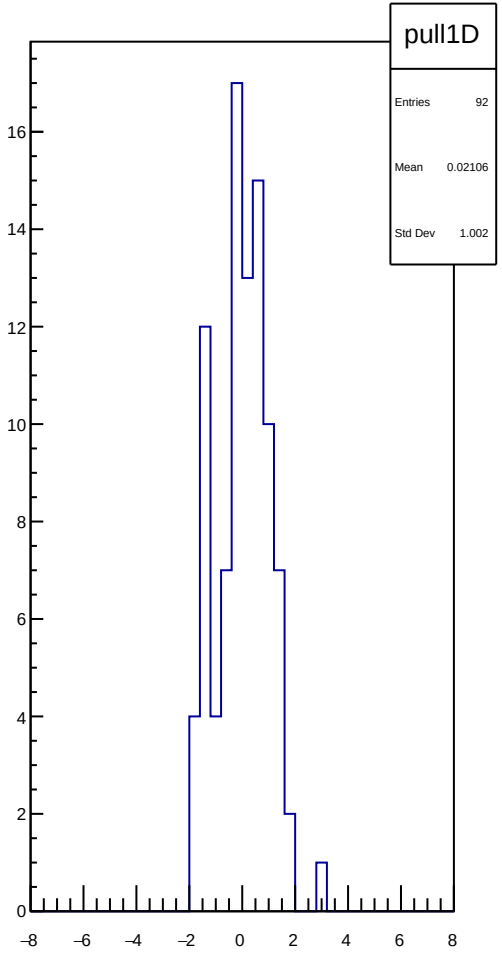

asym_sam_26_48_dd_mean vs run
χ² / ndf 103 / 91
p0 −1454 ± 766.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 1171
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.004253
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

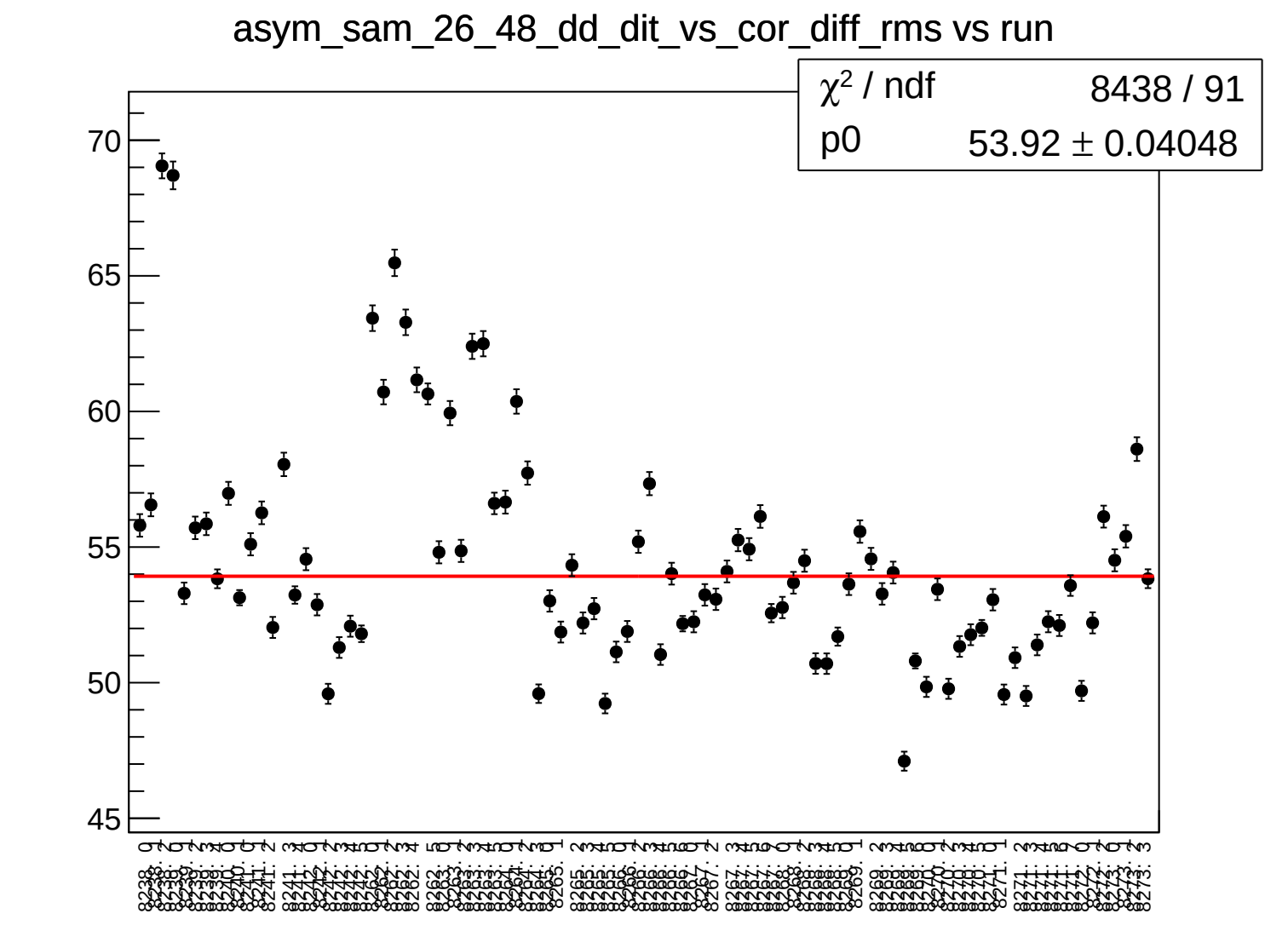

asym_sam_26_48_dd_rms vs run
$\chi^2$ / ndf 2739 / 91
p0 723 ± 0.5419
840
820
800
780
760
740
720
700
680
660

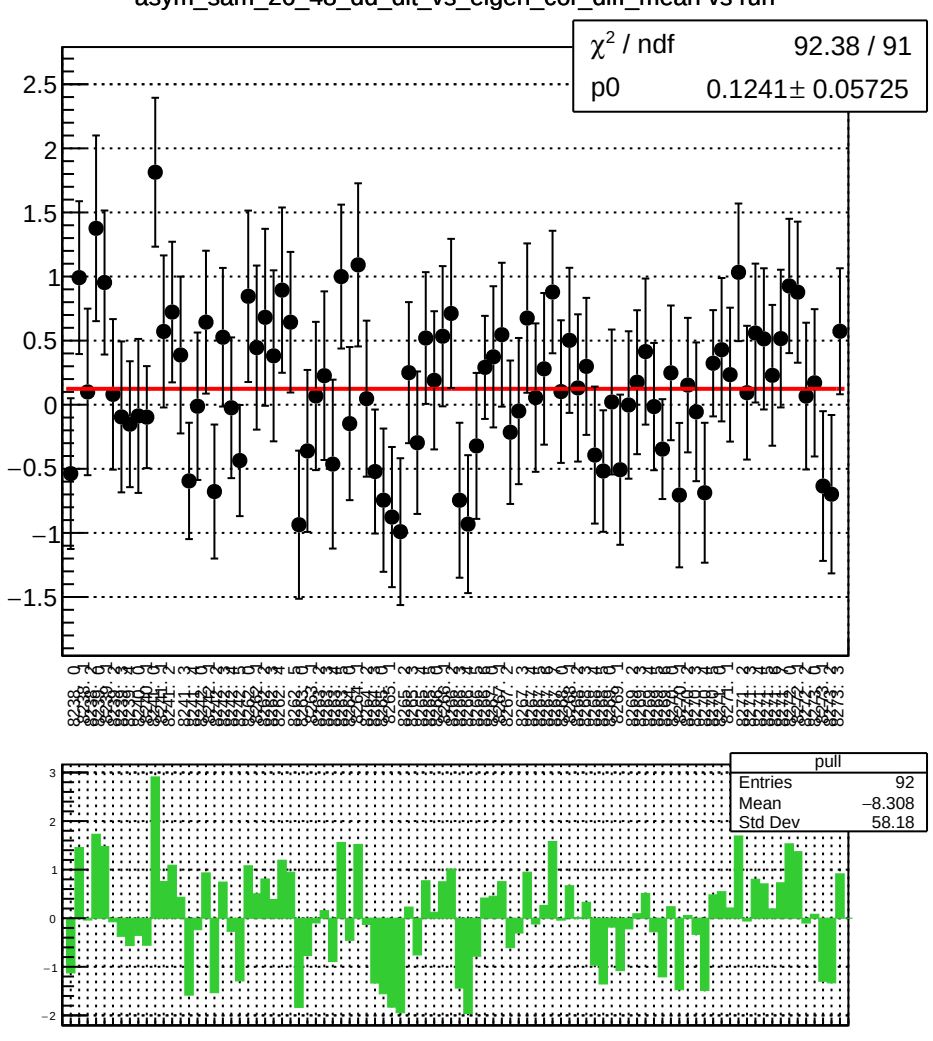

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.84 / 91
p0 −7.573e−14 ± 5.863e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 26.88
Std Dev 14.1
pull1D
Entries 92
Mean −0.06372
Std Dev 0.975

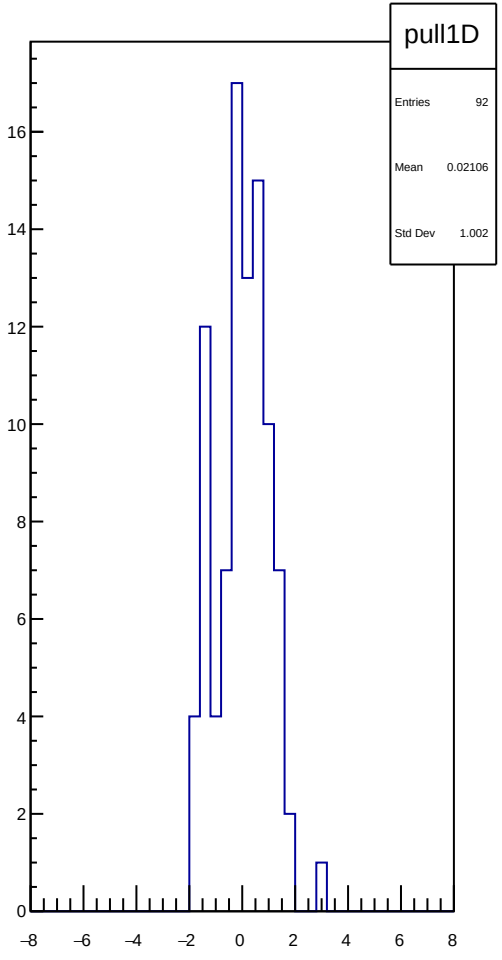

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.685e+05 / 91
p0 4.377e−11 ± 4.146e−14
0.05
0.04
0.03
0.02
0.01
0

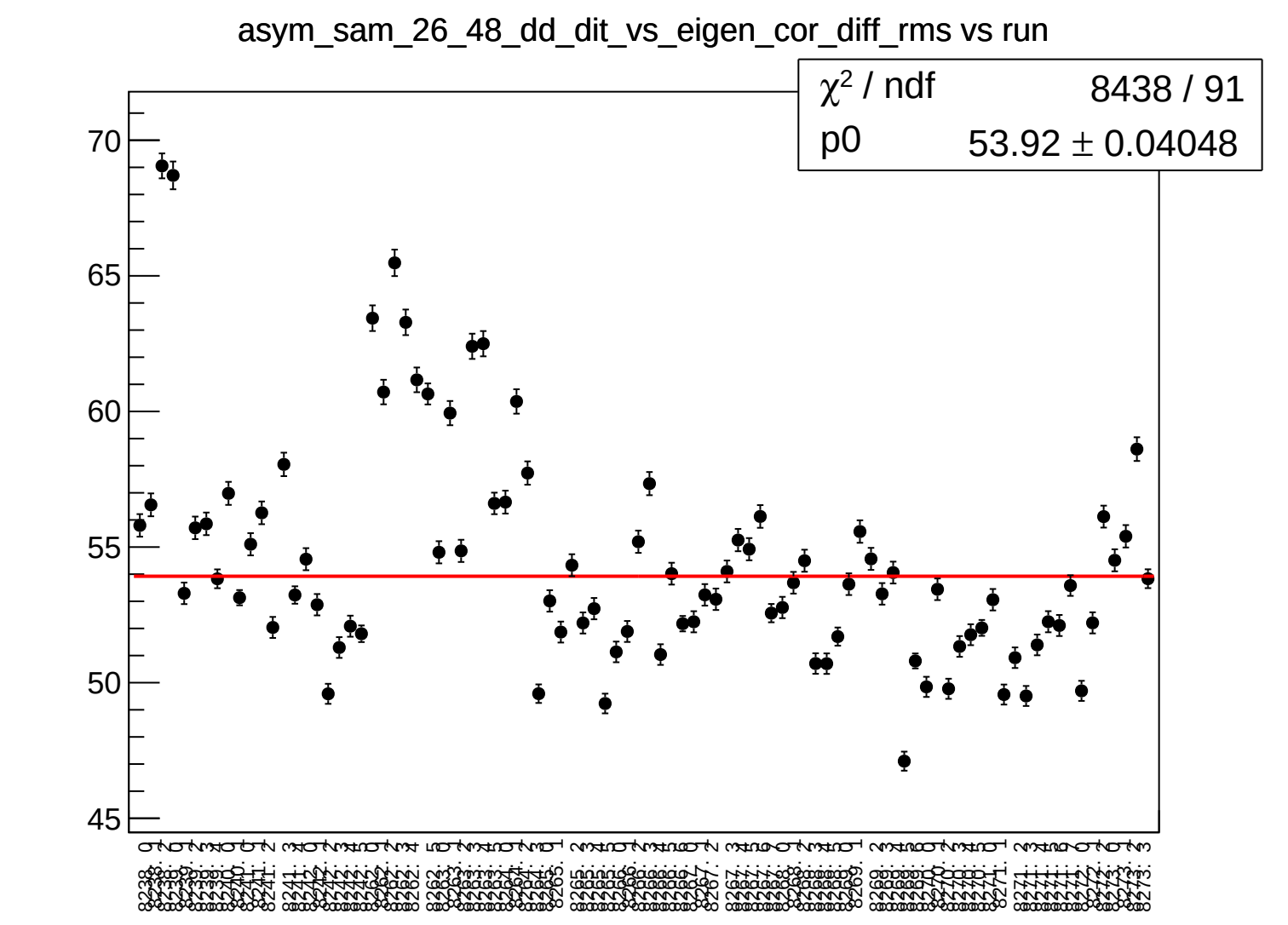

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.38 / 91
p0 0.1241± 0.05725
pull
Entries 92
Mean −8.308
Std Dev 58.18

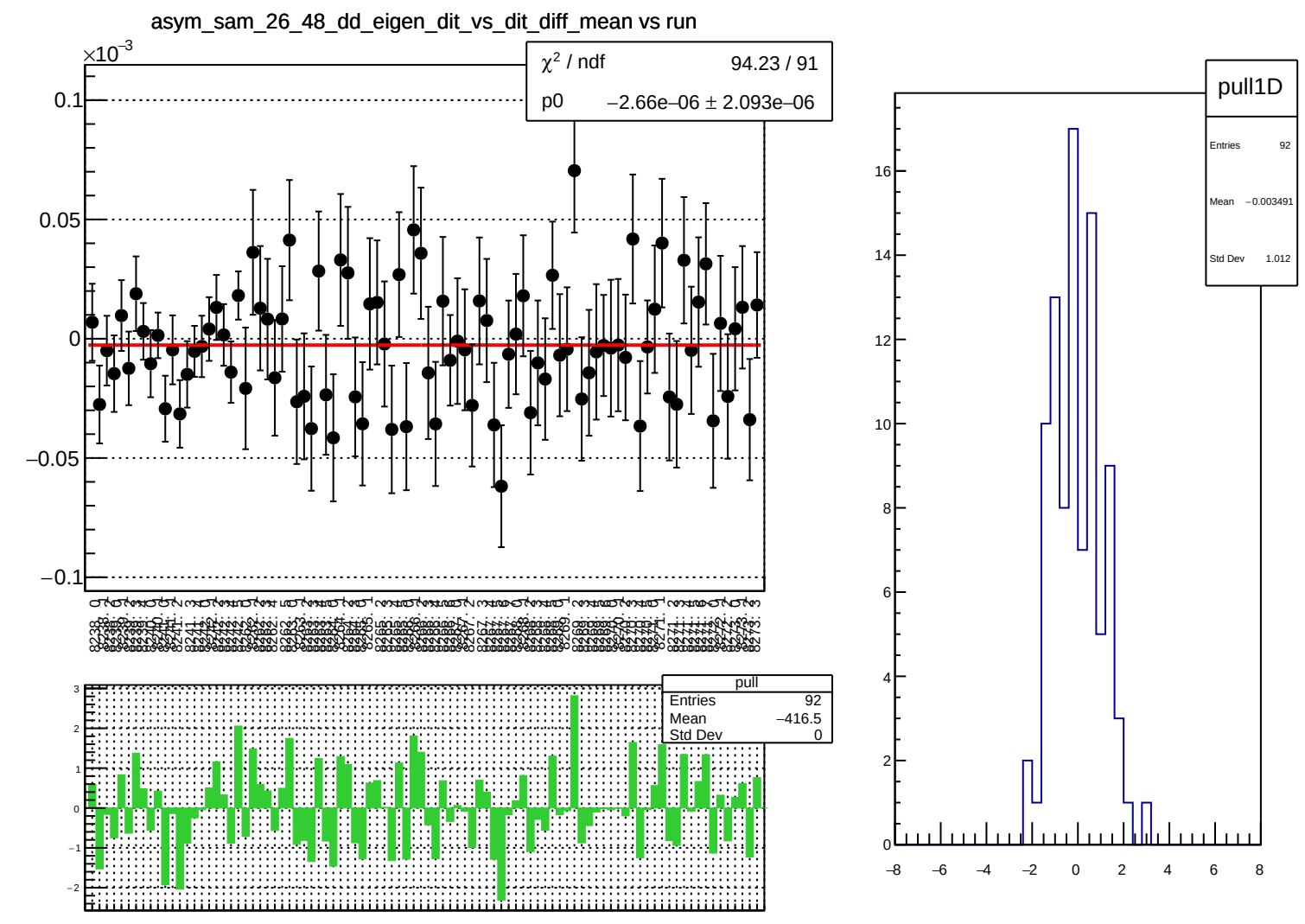

pull1D
Entries 92
Mean 0.02106
Std Dev 1.002

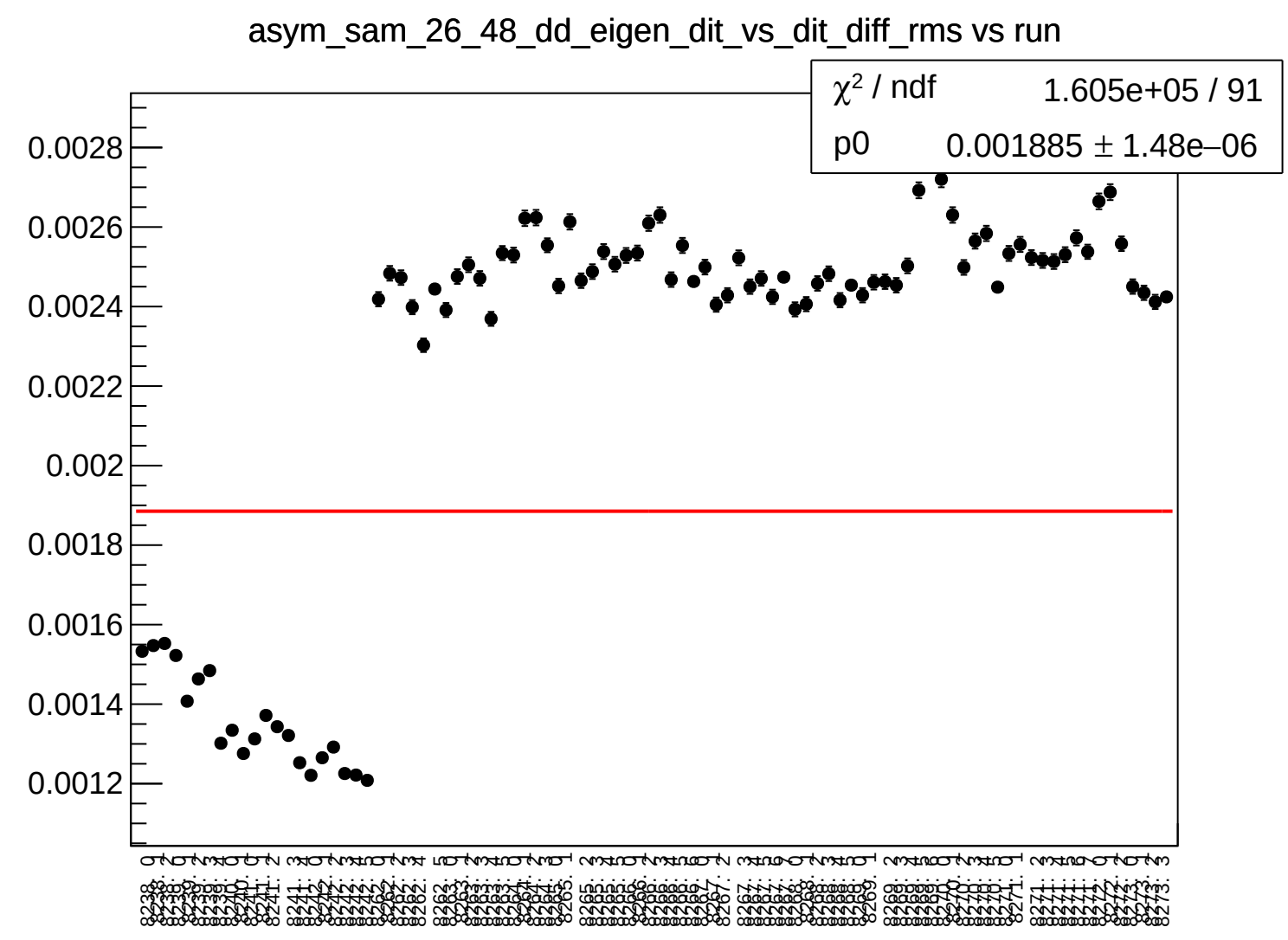

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8438 / 91
p0 53.92 ± 0.04048
70
65
60
55
50
45

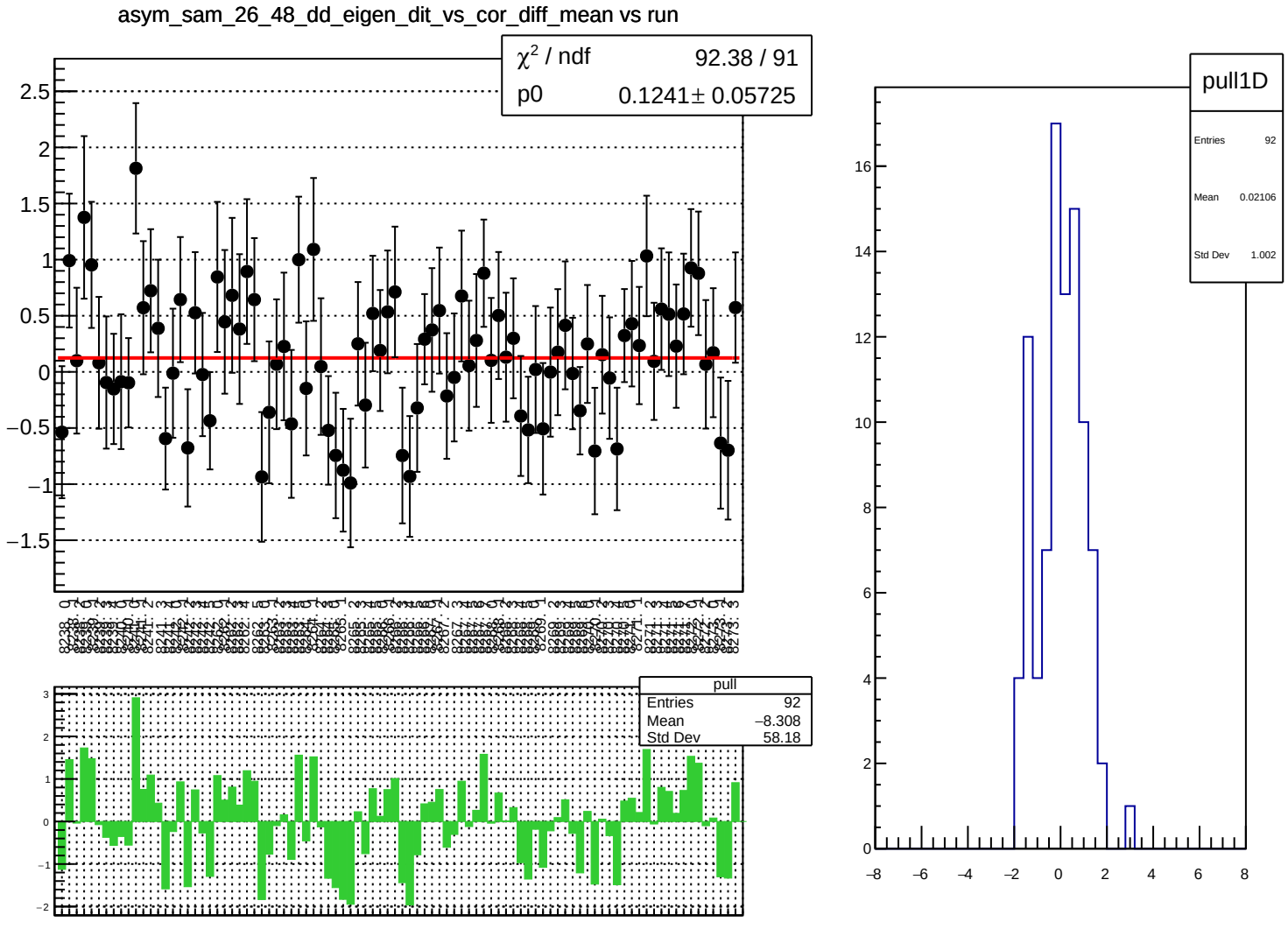

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.38 / 91
p0 0.1241± 0.05725
pull
Entries 92
Mean −8.308
Std Dev 58.18

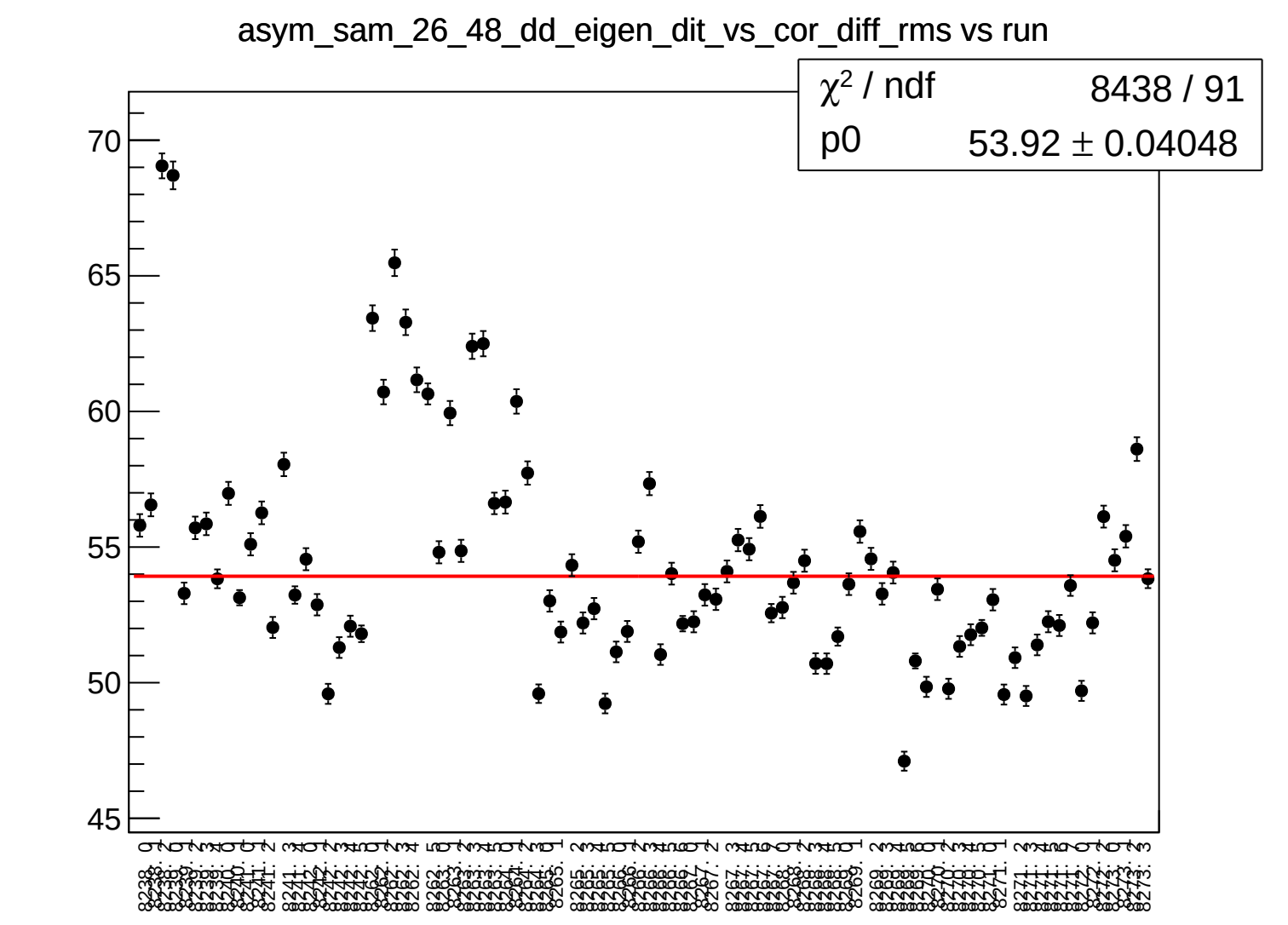

pull1D
Entries 92
Mean 0.02106
Std Dev 1.002

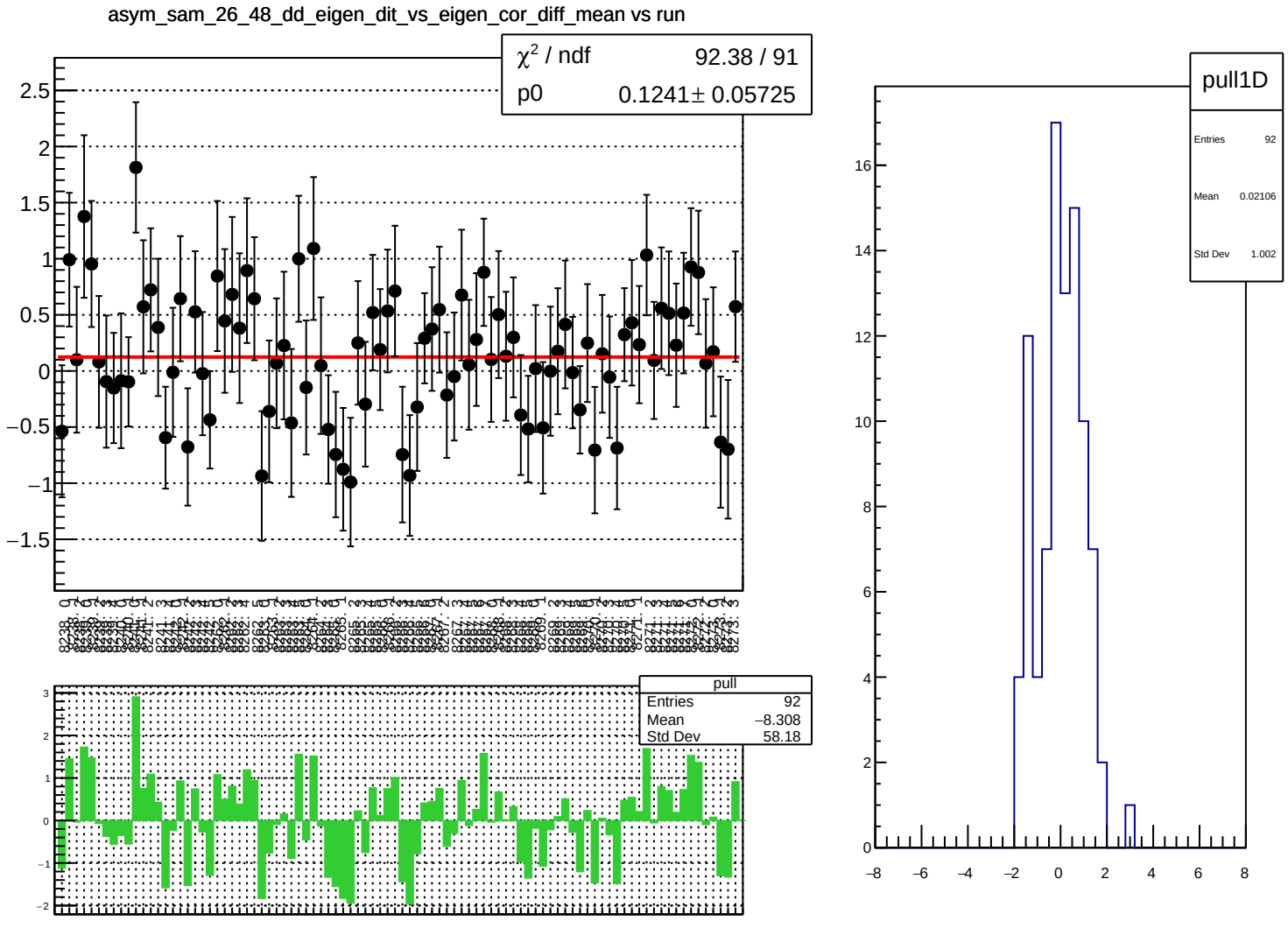

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 8438 / 91
p0 53.92 ± 0.04048
70
65
60
55
50
45

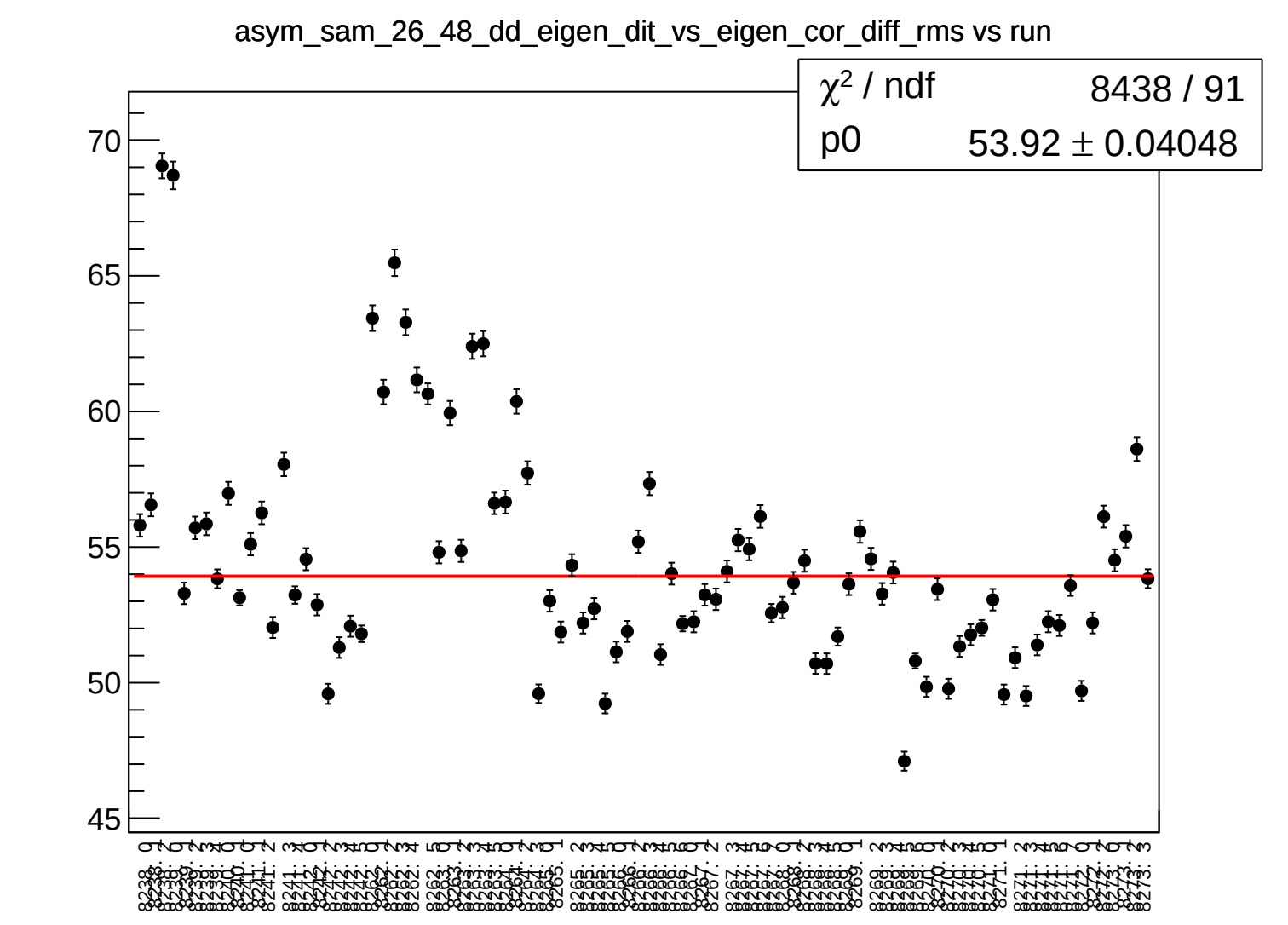

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 94.23 / 91
p0 −2.66e−06 ± 2.093e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean −416.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.003491
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

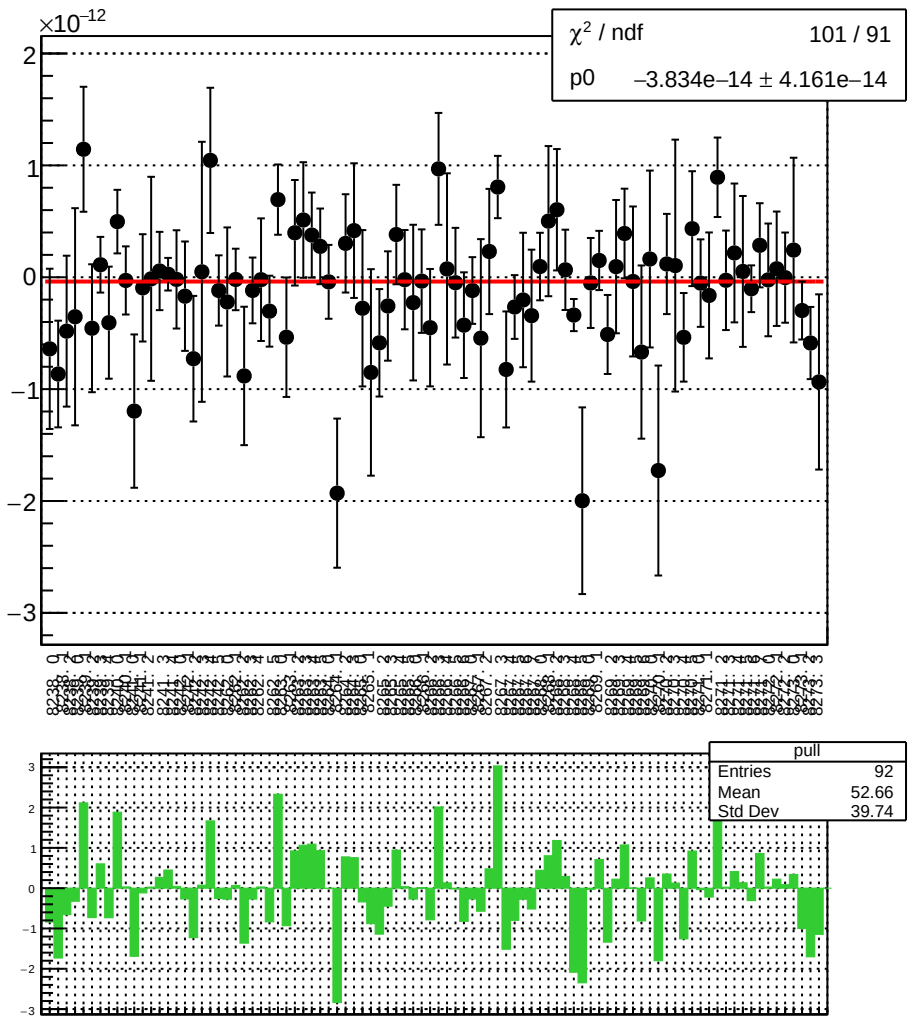

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.605e+05 / 91
p0 0.001885 ± 1.48e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

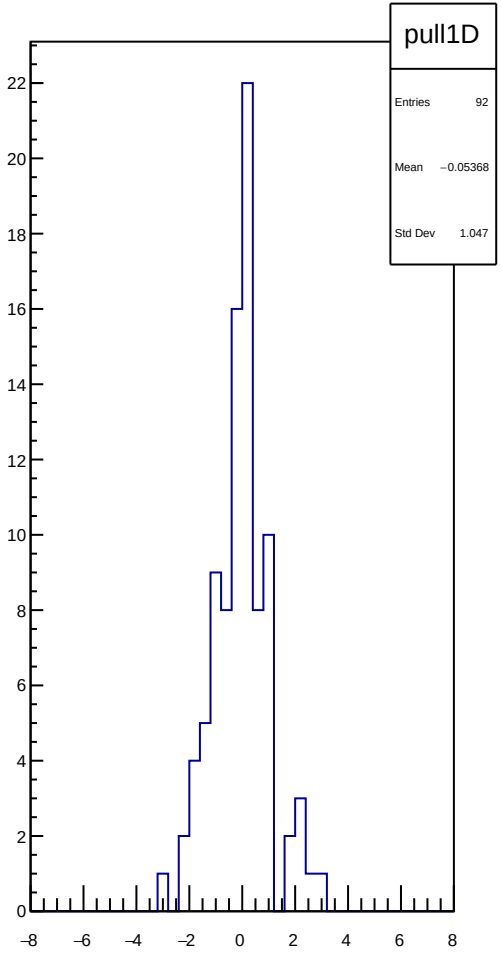

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.38 / 91
p0 0.1241± 0.05725
pull
Entries 92
Mean −8.308
Std Dev 58.18
pull1D
Entries 92
Mean 0.02106
Std Dev 1.002

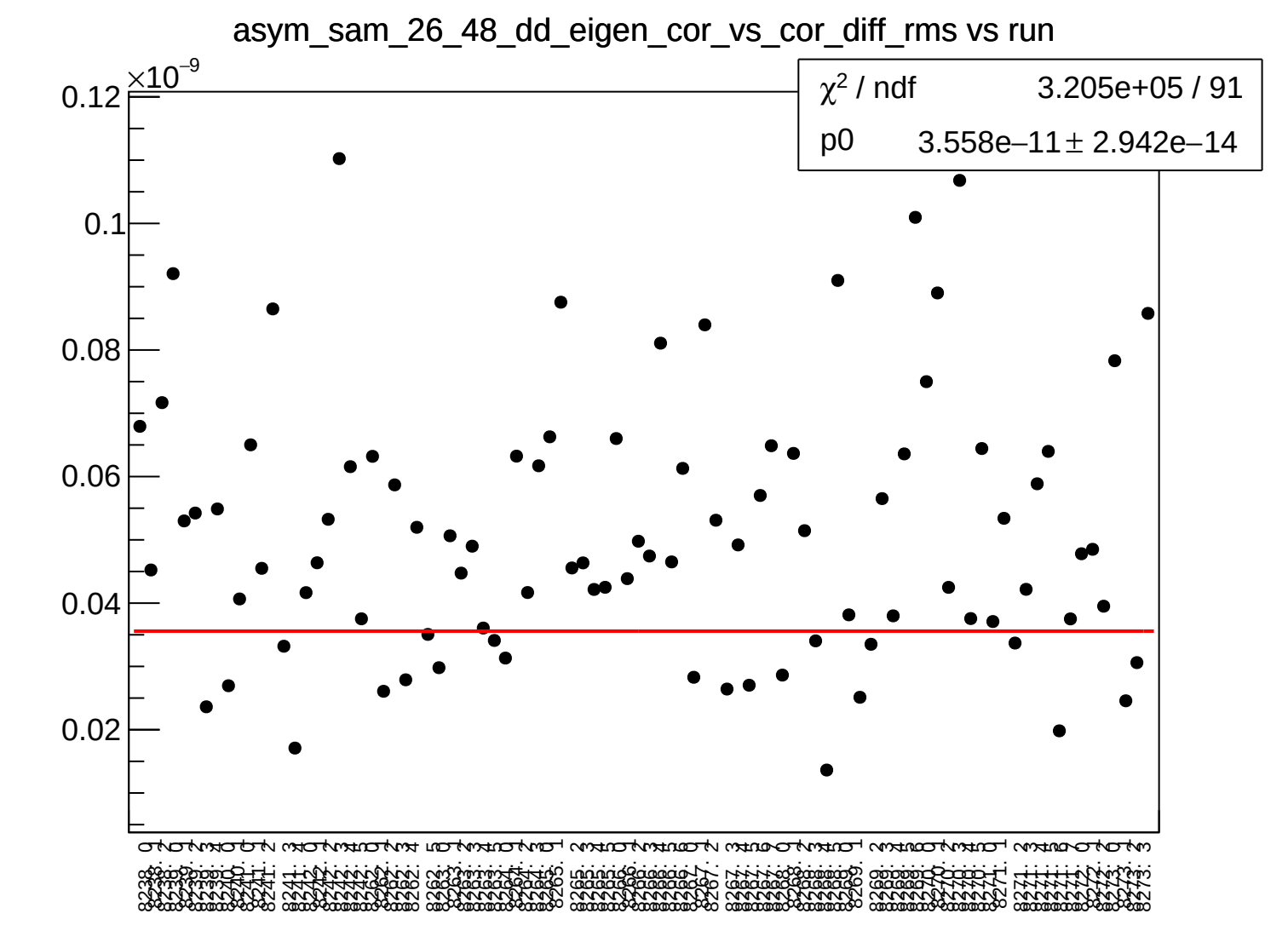

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 8438 / 91
p0 53.92 ± 0.04048
70
65
60
55
50
45

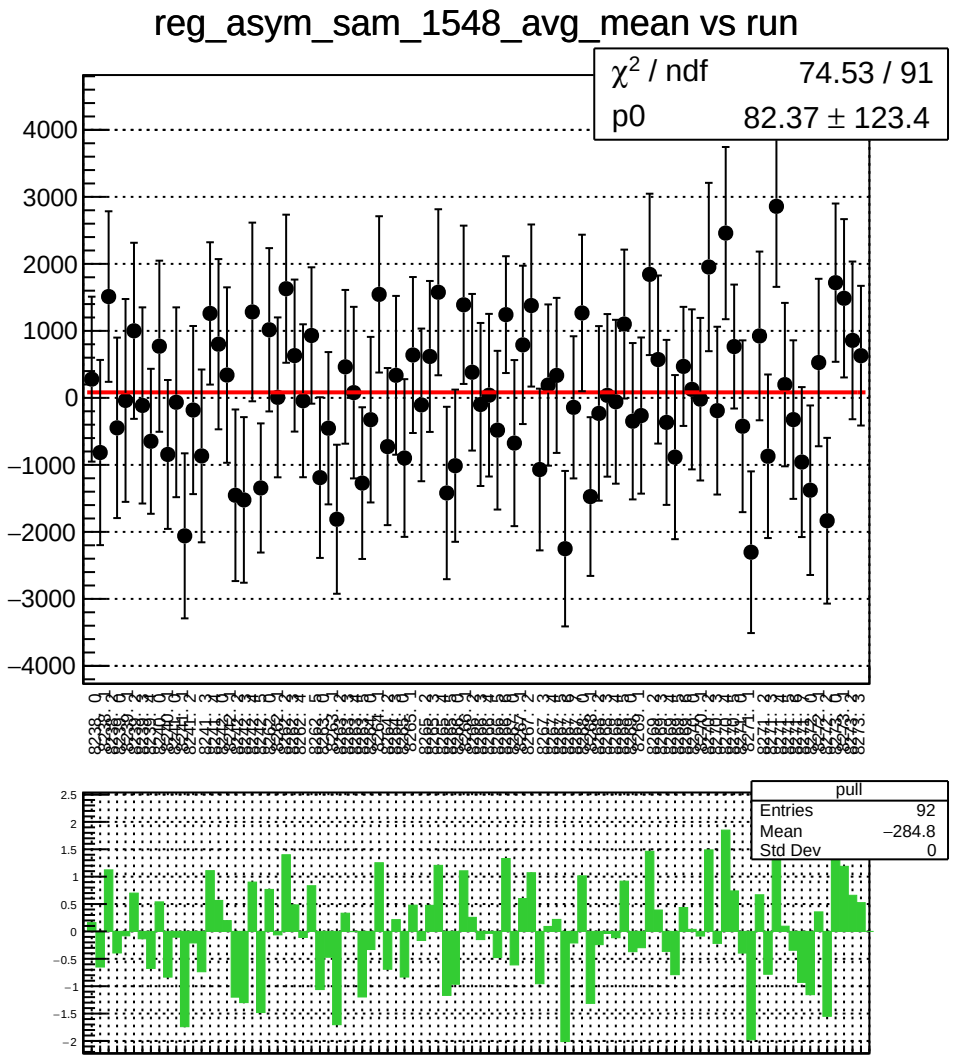

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.38 / 91
p0 0.1241± 0.05725
pull
Entries 92
Mean −8.308
Std Dev 58.18
pull1D
Entries 92
Mean 0.02106
Std Dev 1.002

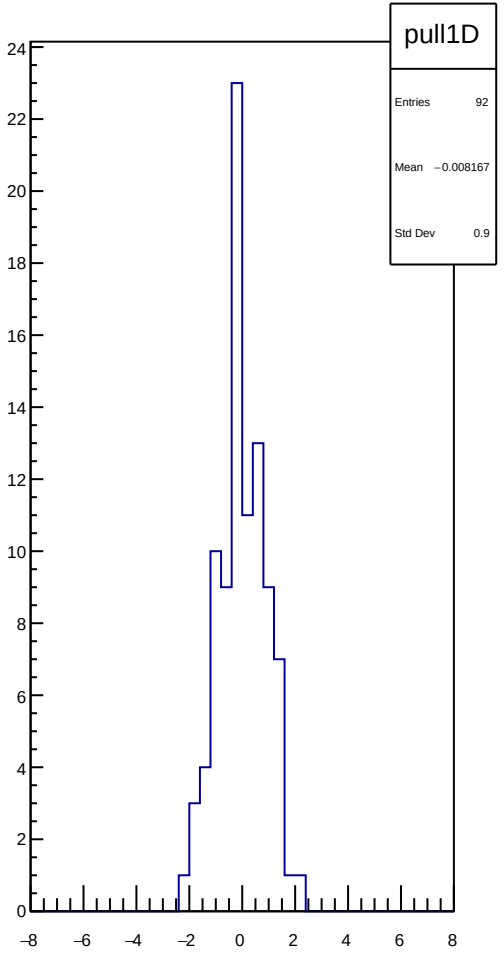

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8438 / 91
p0 53.92 ± 0.04048
70
65
60
55
50
45

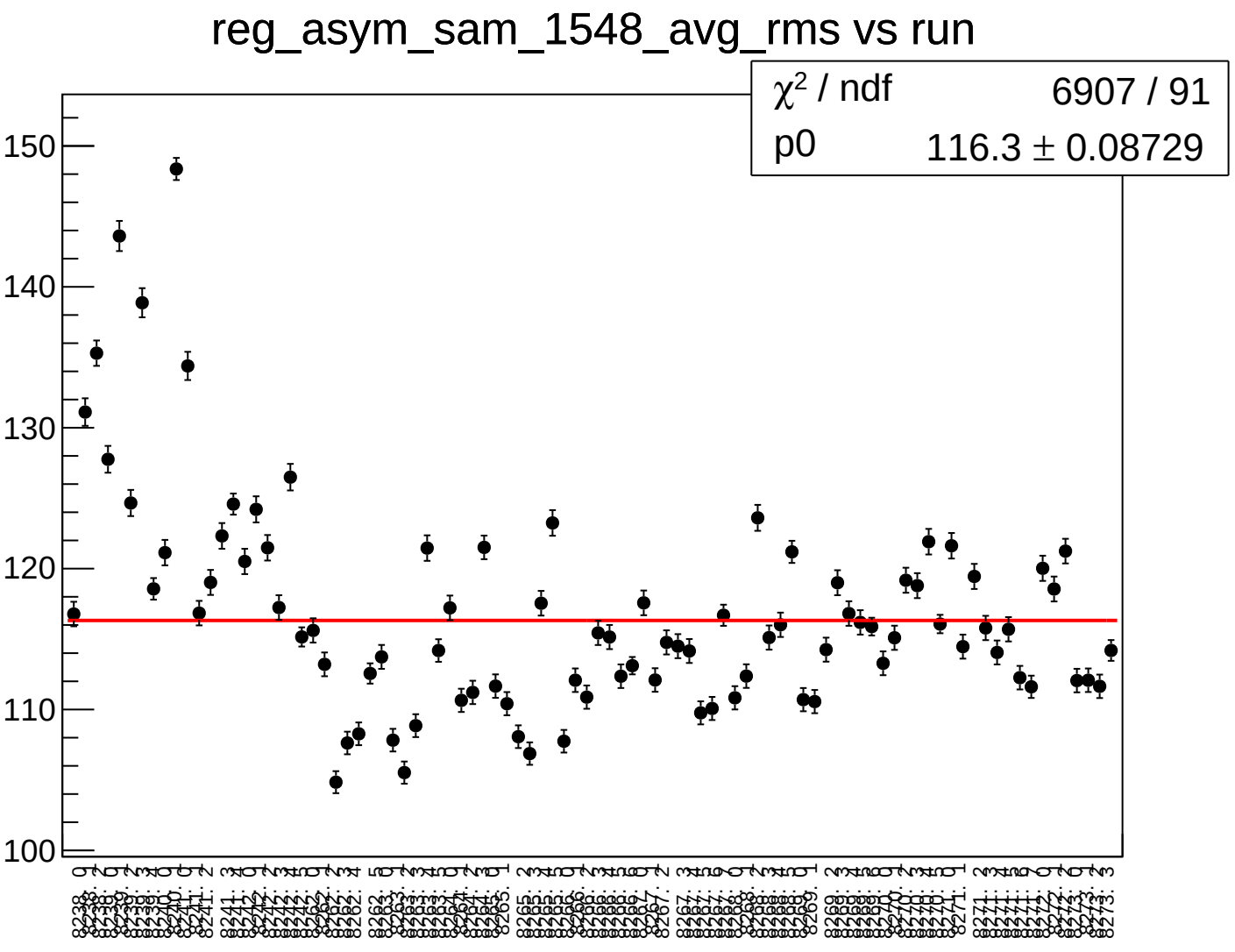

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 101 / 91
p0 −3.834e−14 ± 4.161e−14
pull
Entries 92
Mean 52.66
Std Dev 39.74

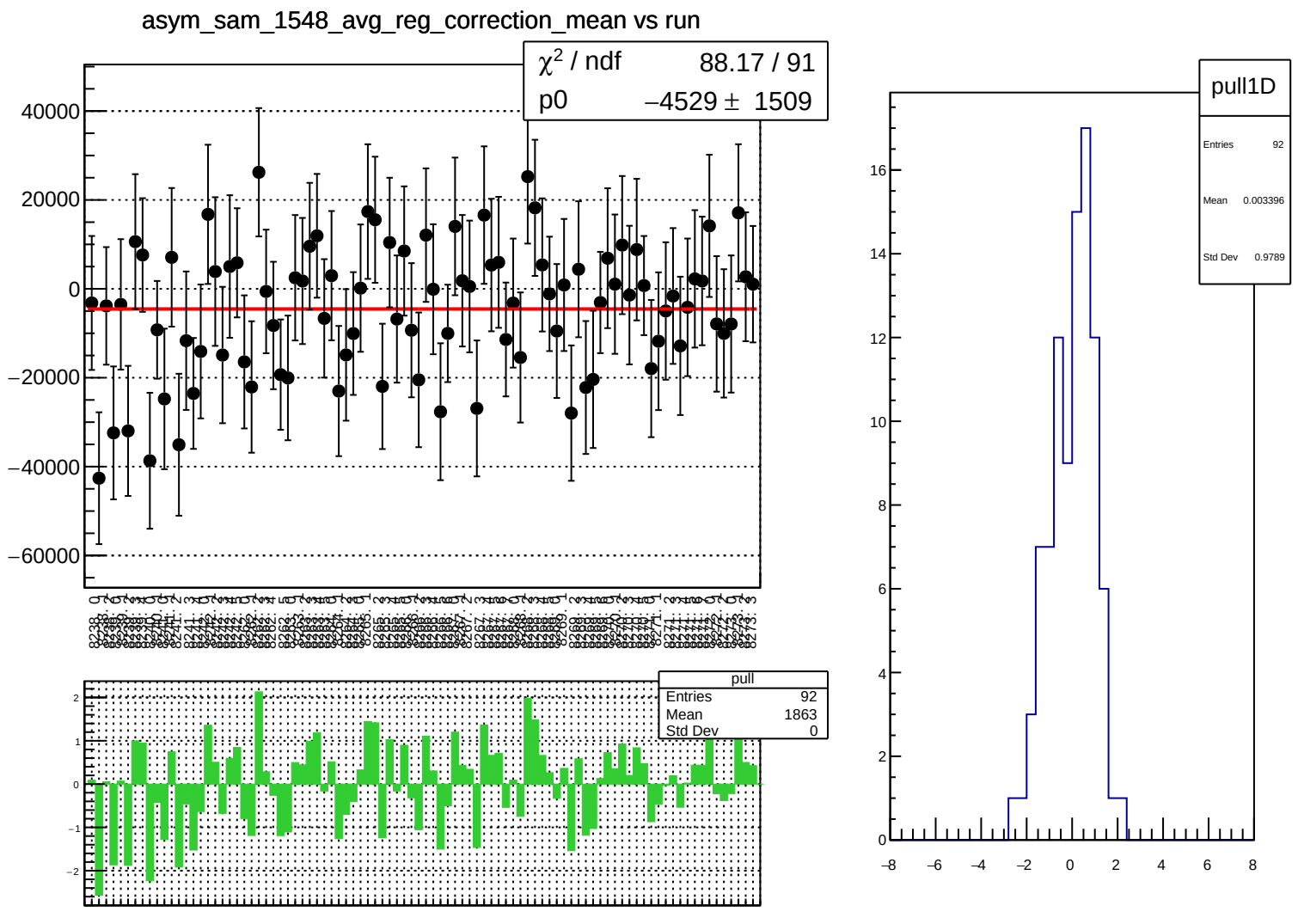

pull1D
Entries 92
Mean −0.05368
Std Dev 1.047

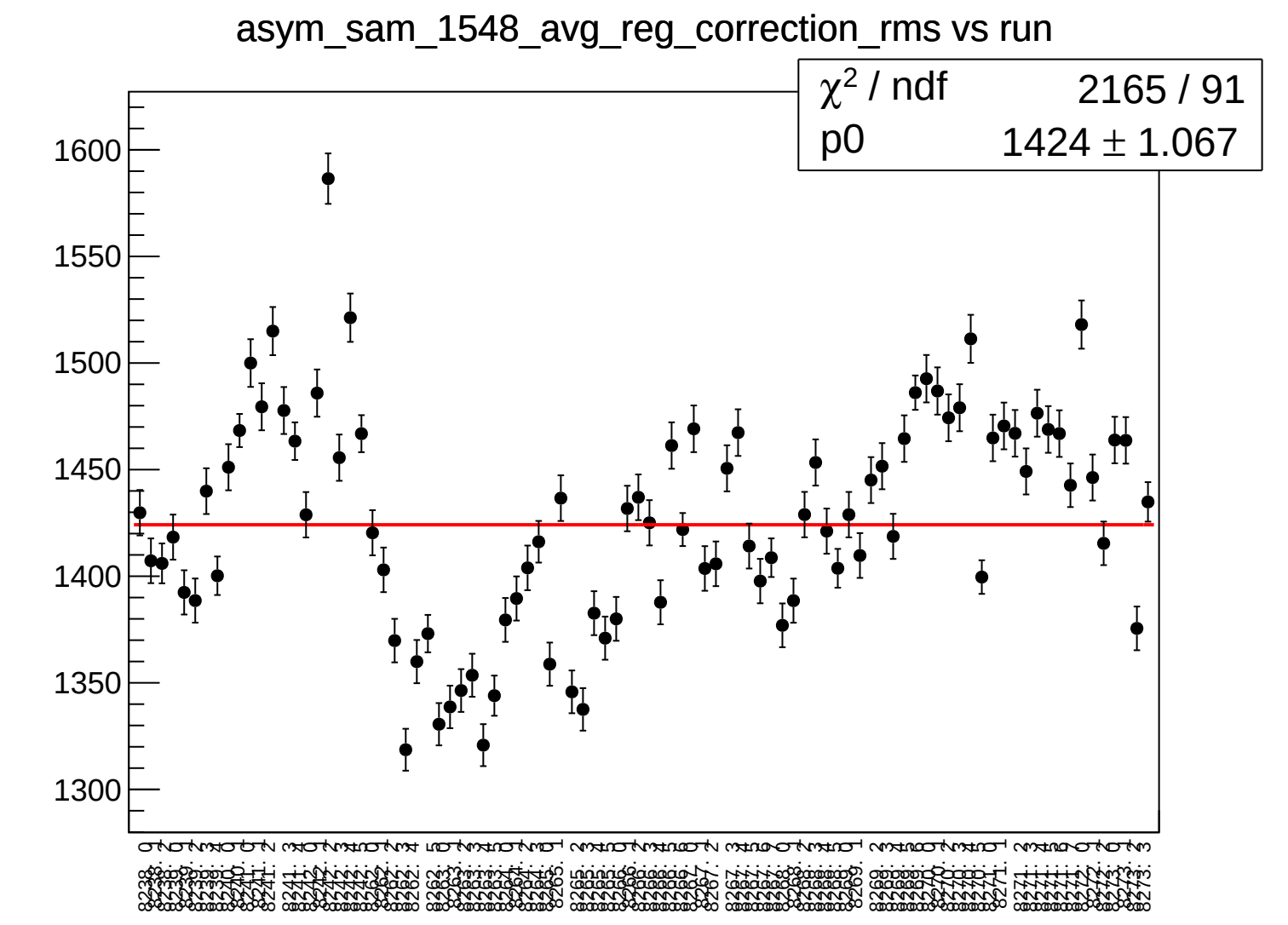

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 3.205e+05 / 91
p0 3.558e−11 ± 2.942e−14

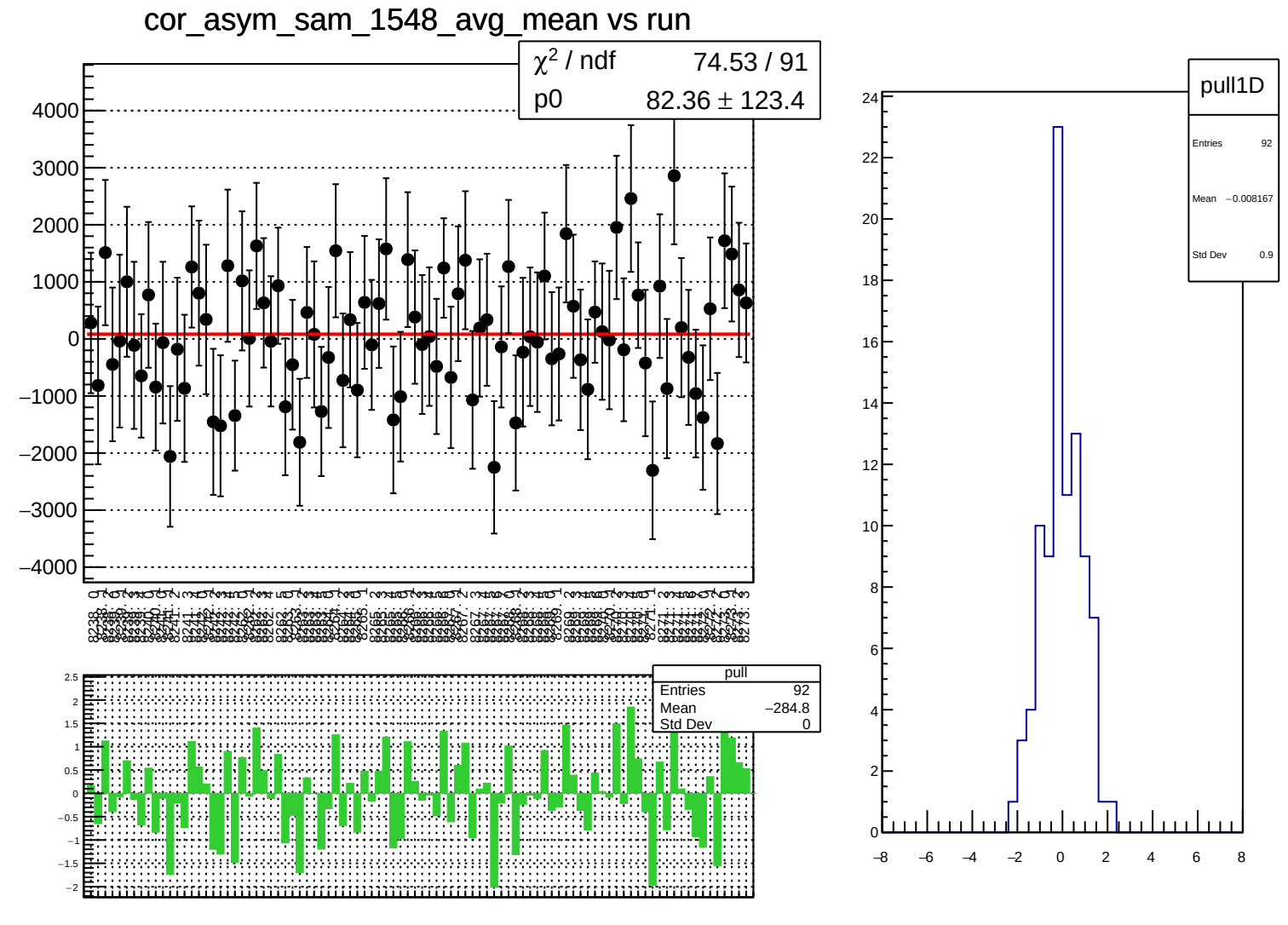

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 74.53 / 91
p0 82.37 ± 123.4
pull
Entries 92
Mean −284.8
Std Dev 0

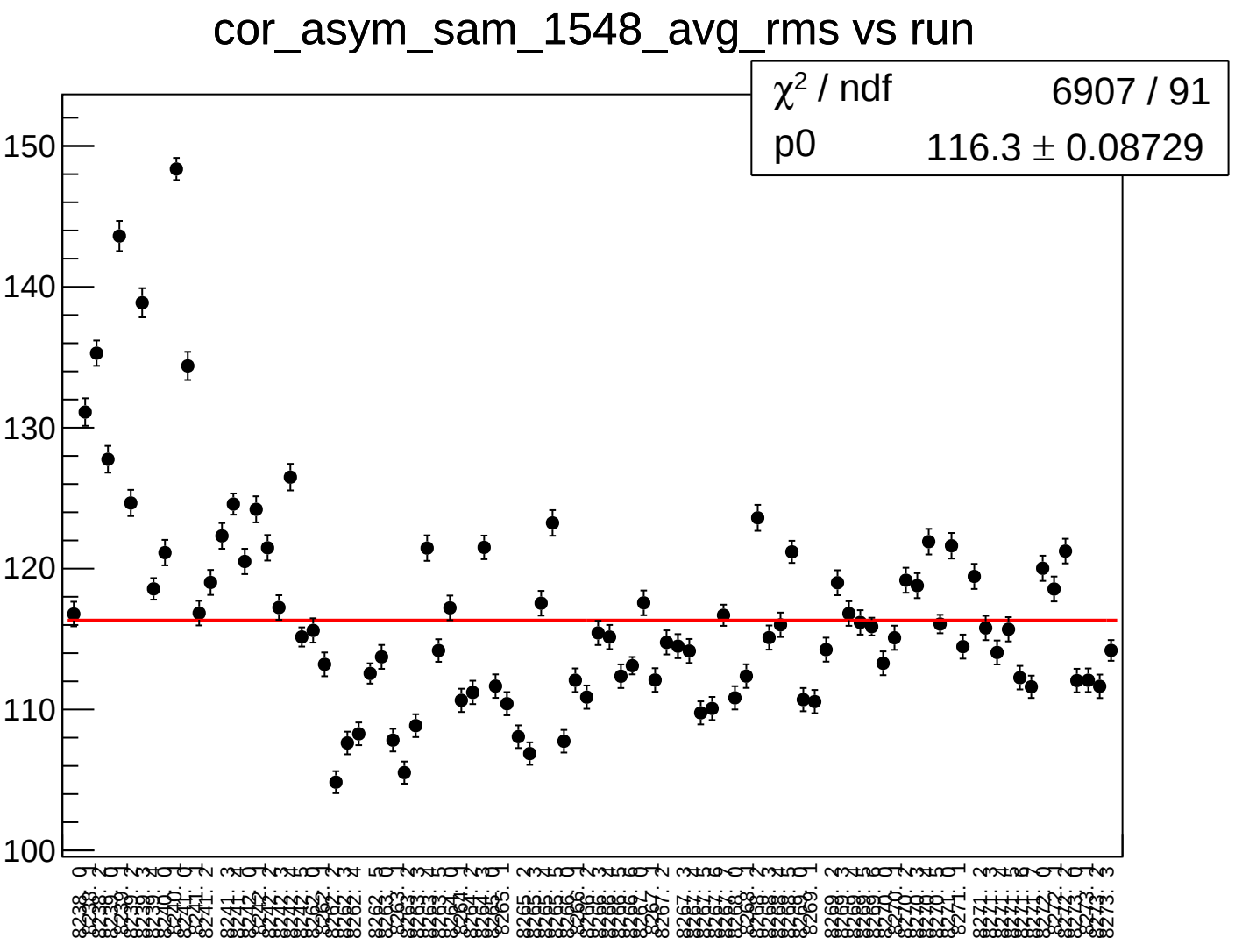

pull1D
Entries 92
Mean −0.008167
Std Dev 0.9

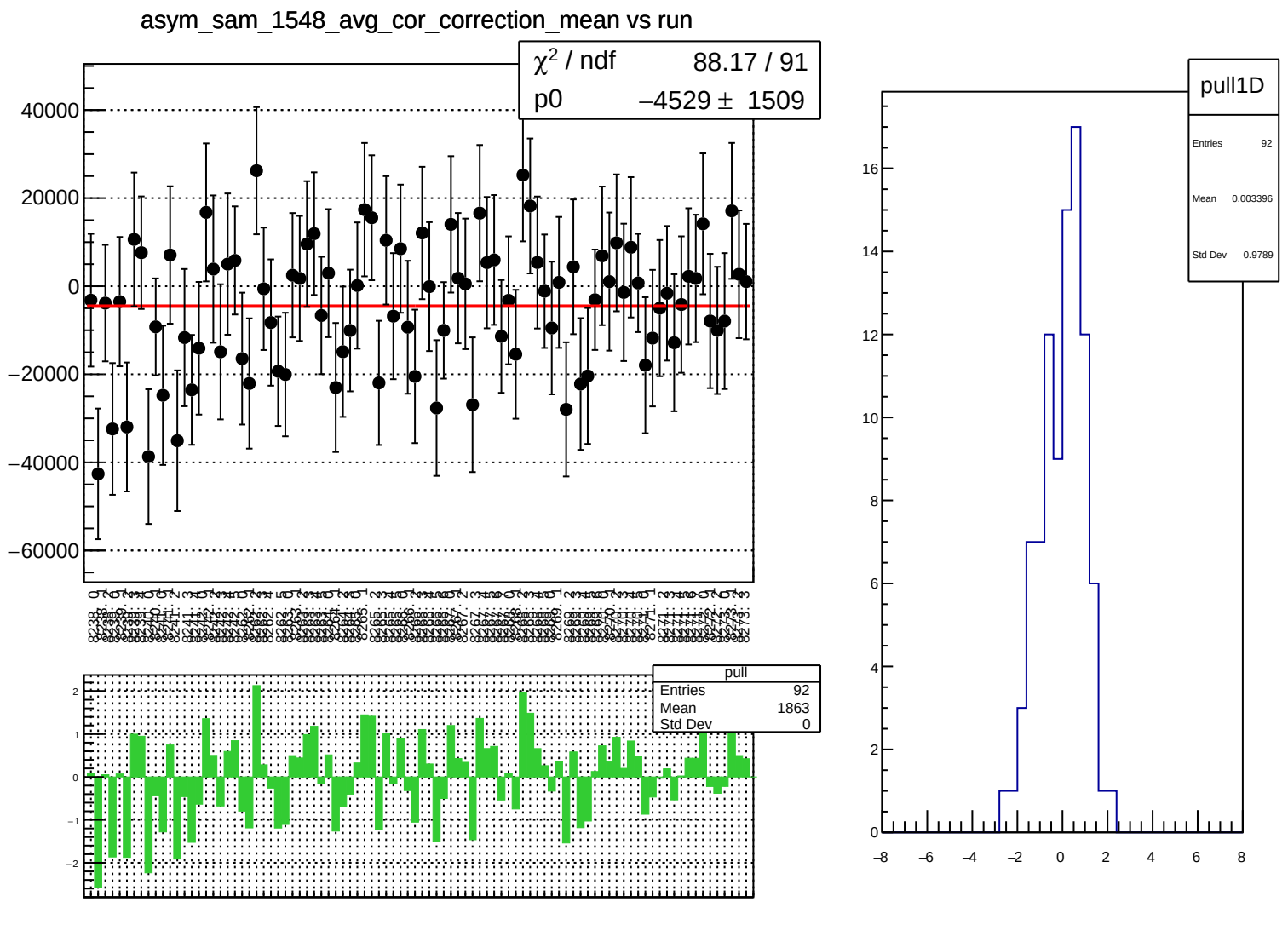

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 6907 / 91
p0 116.3 ± 0.08729
150
140
130
120
110
100

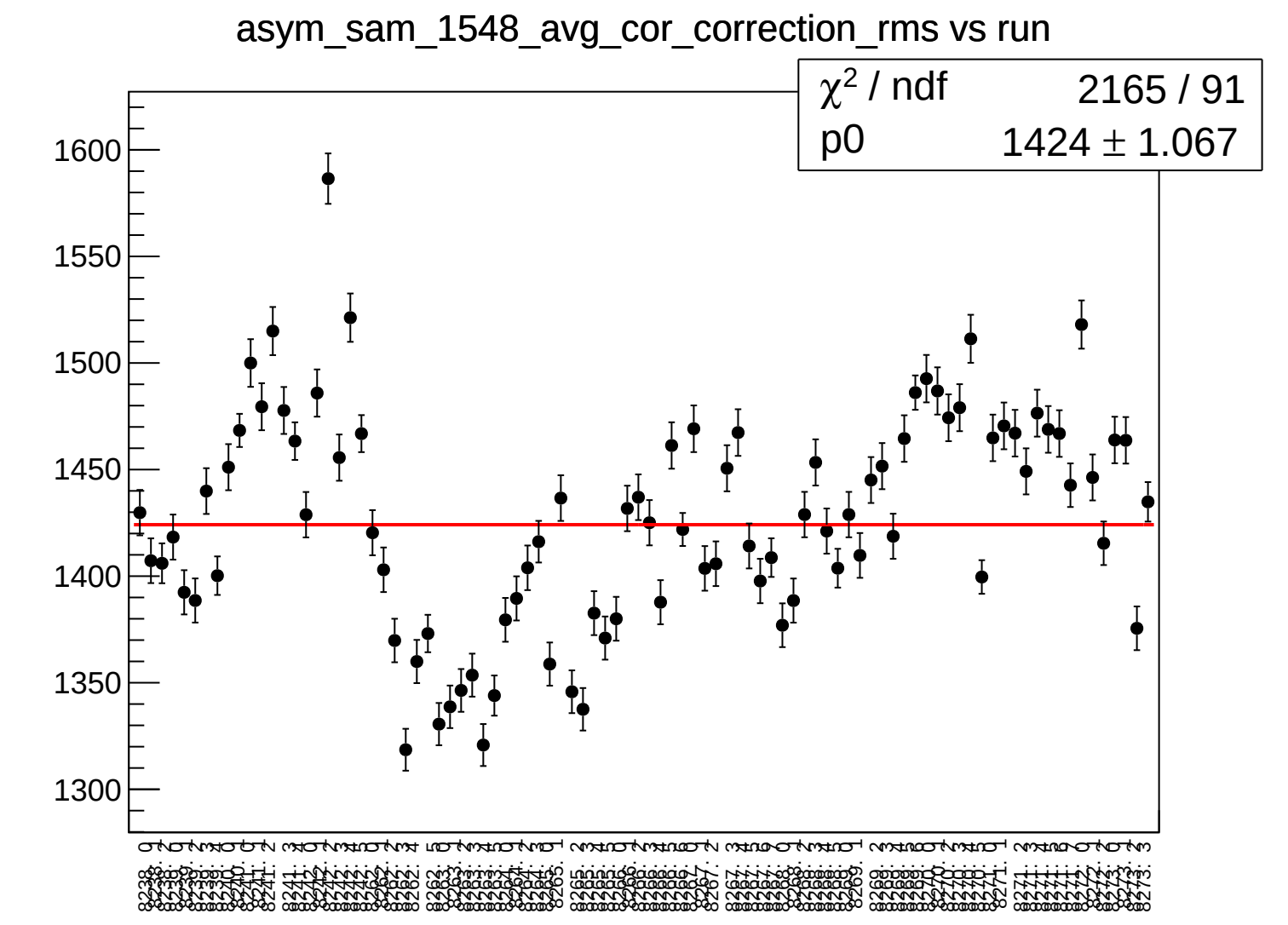

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 88.17 / 91
p0 −4529 ± 1509
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 1863
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.003396
Std Dev 0.9789
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

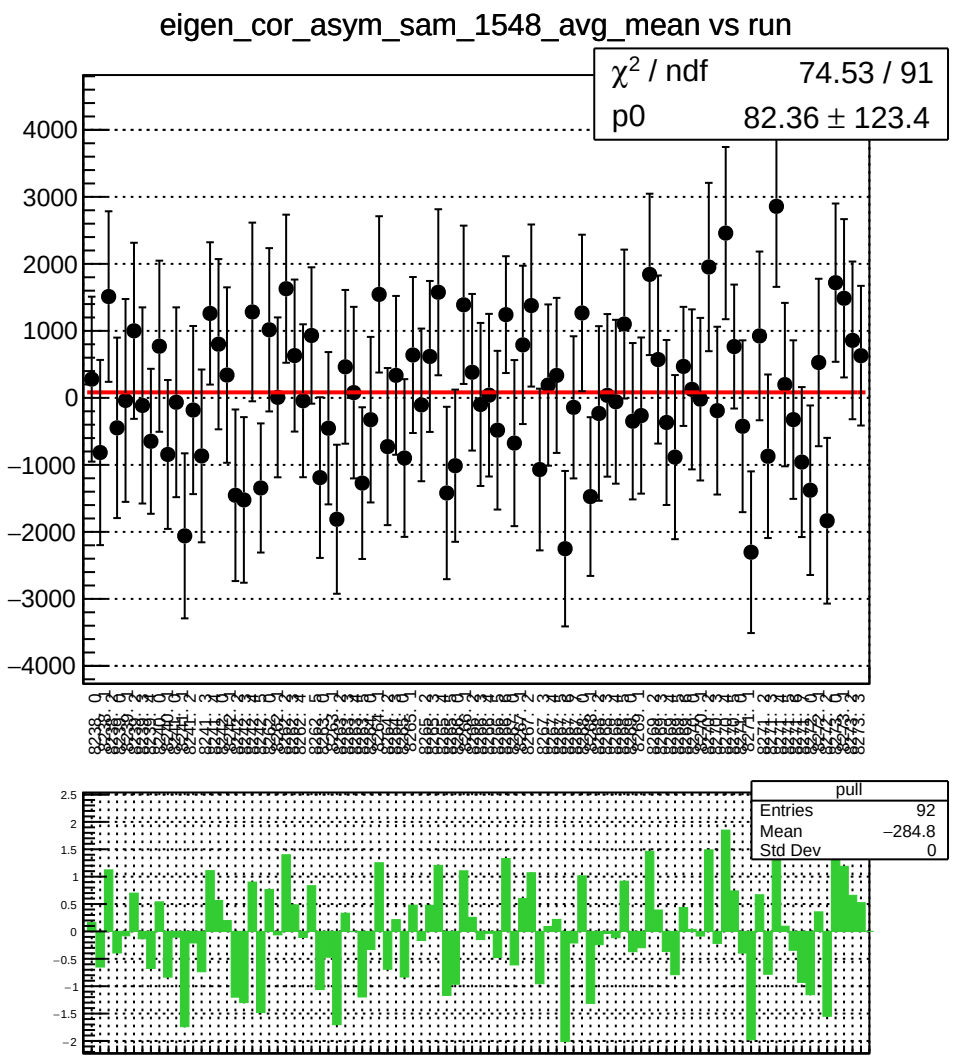

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 2165 / 91
p0 1424 ± 1.067
1600
1550
1500
1450
1400
1350
1300

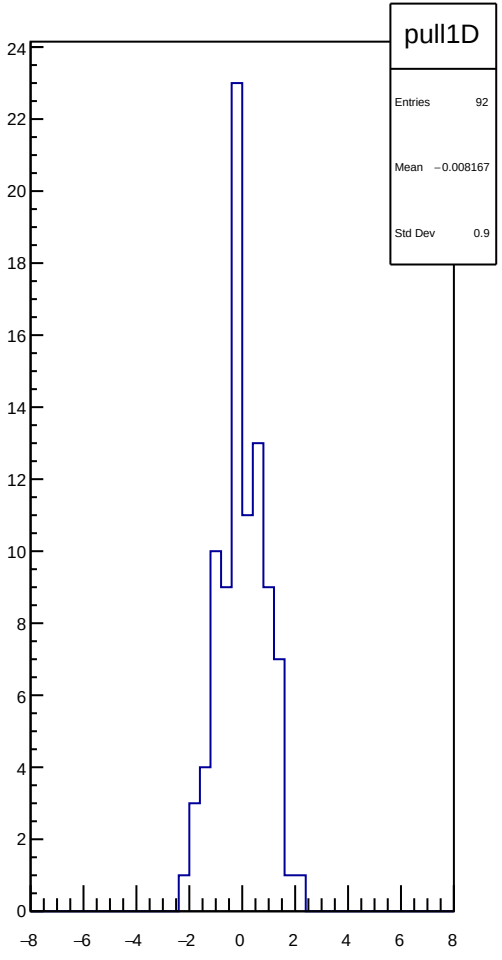

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 74.53 / 91
p0 82.36 ± 123.4
pull
Entries 92
Mean −284.8
Std Dev 0
pull1D
Entries 92
Mean −0.008167
Std Dev 0.9

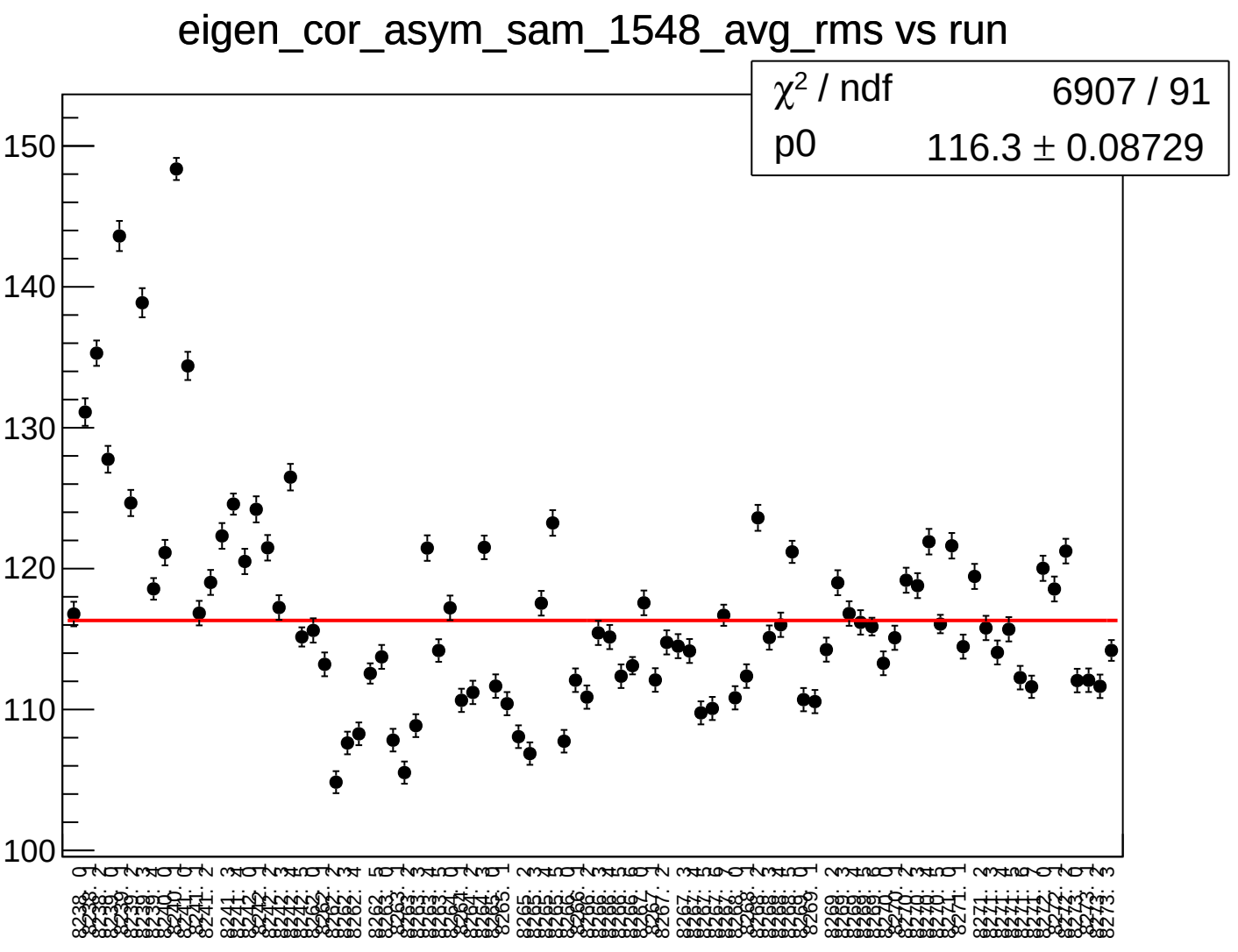

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 6907 / 91
p0 116.3 ± 0.08729
150
140
130
120
110
100

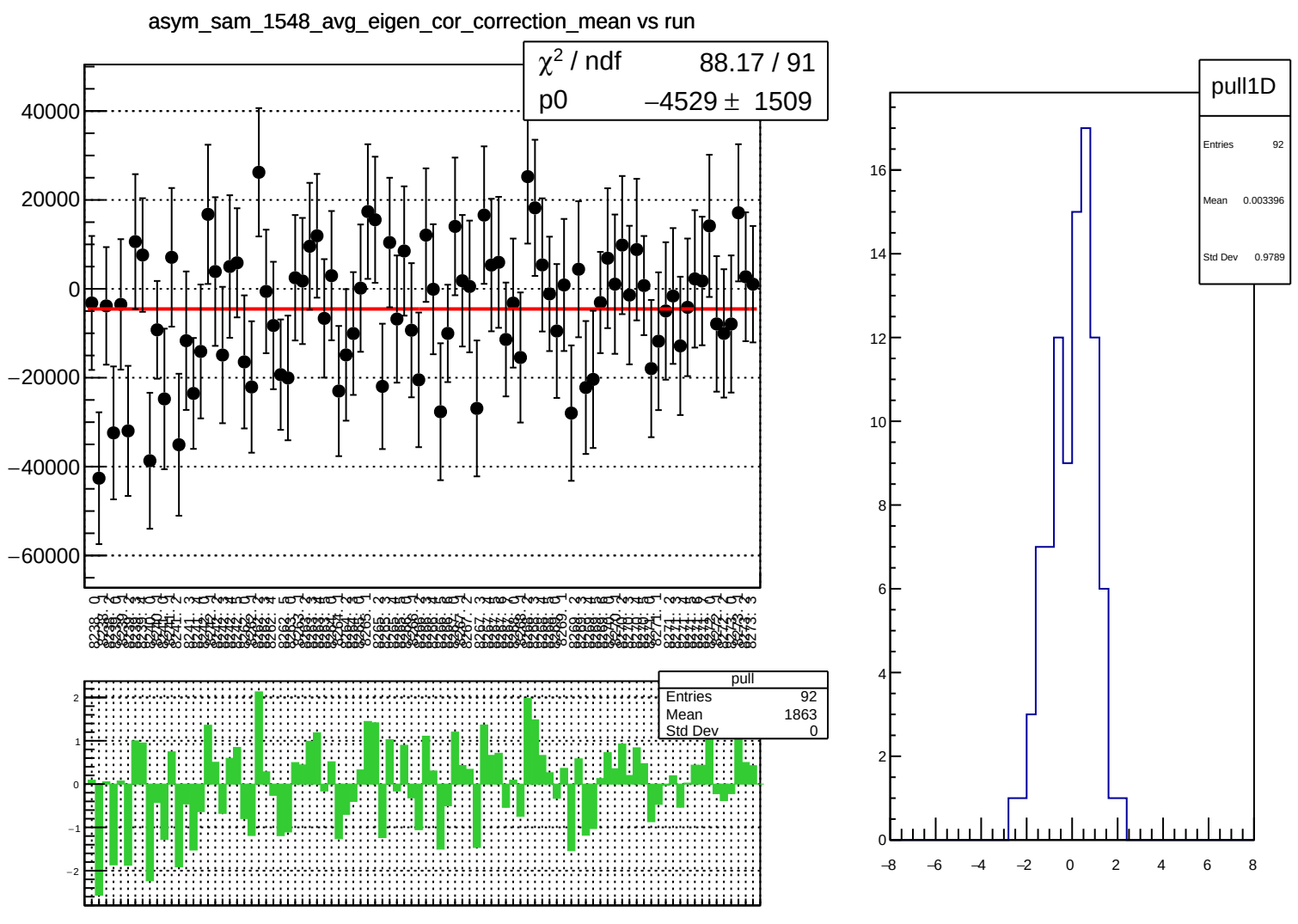

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 88.17 / 91
p0 −4529 ± 1509
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 1863
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.003396
Std Dev 0.9789
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

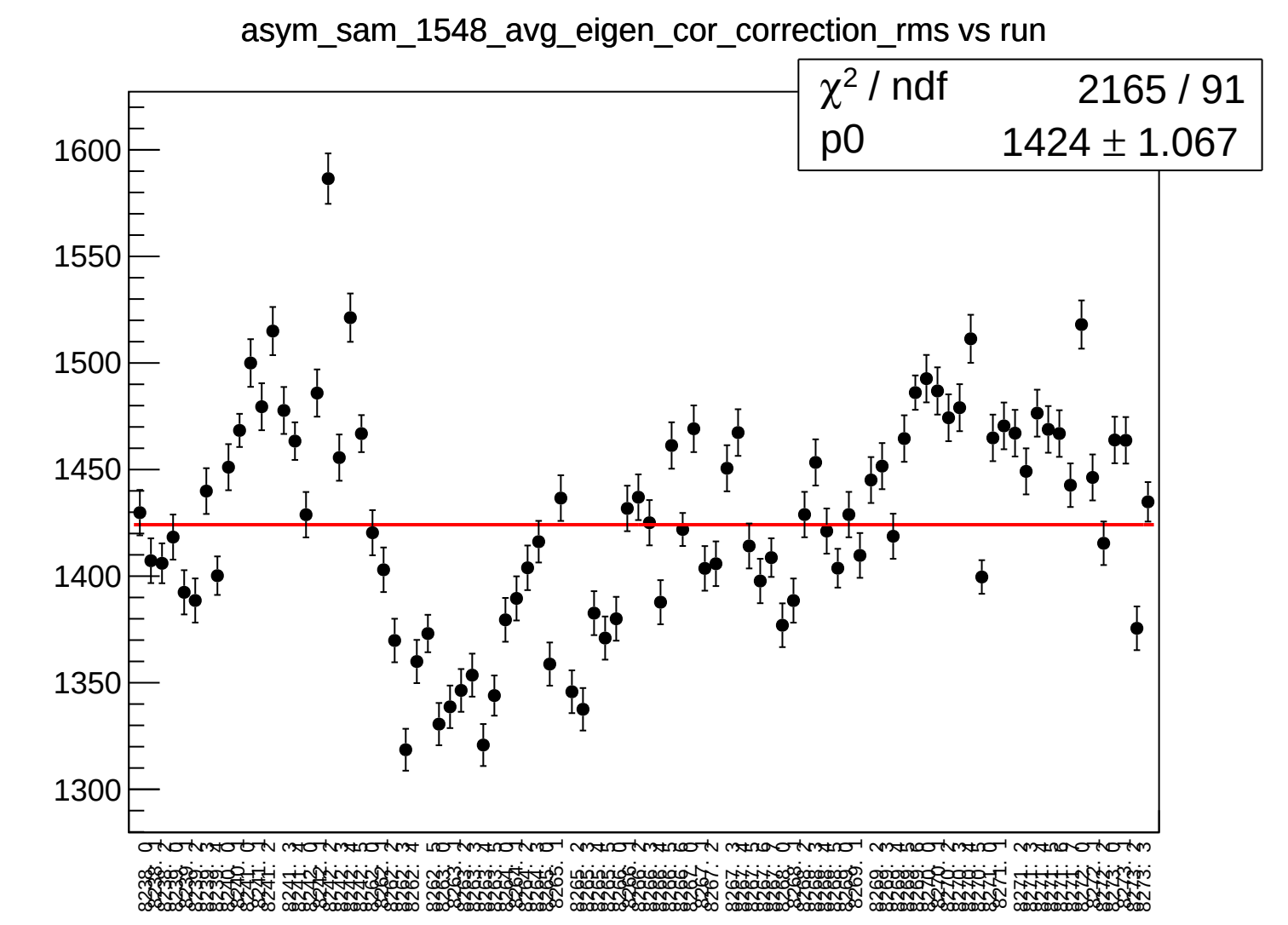

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 2165 / 91
p0 1424 ± 1.067
1600
1550
1500
1450
1400
1350
1300

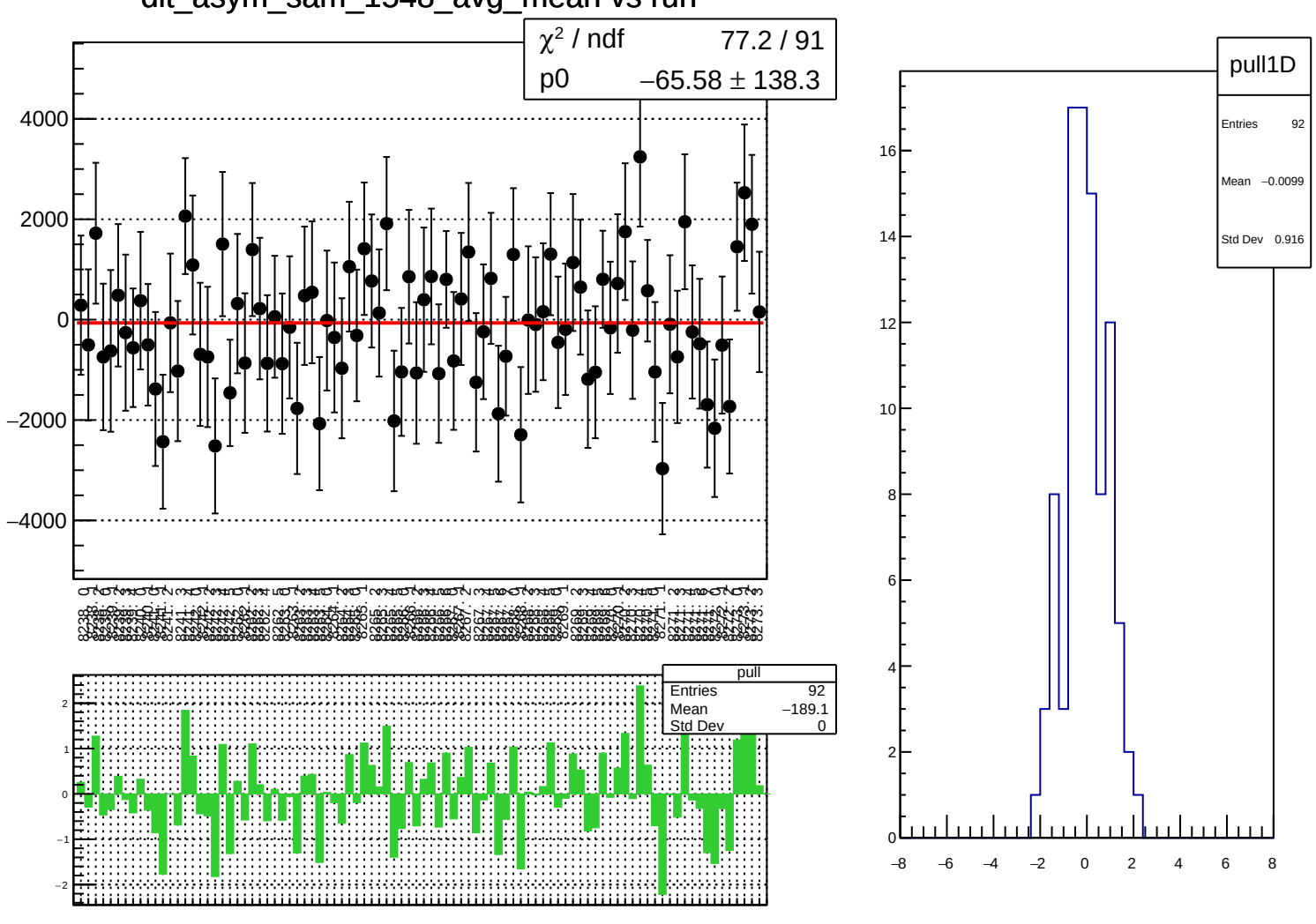

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 74.53 / 91
p0 82.36 ± 123.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 92
Mean −284.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

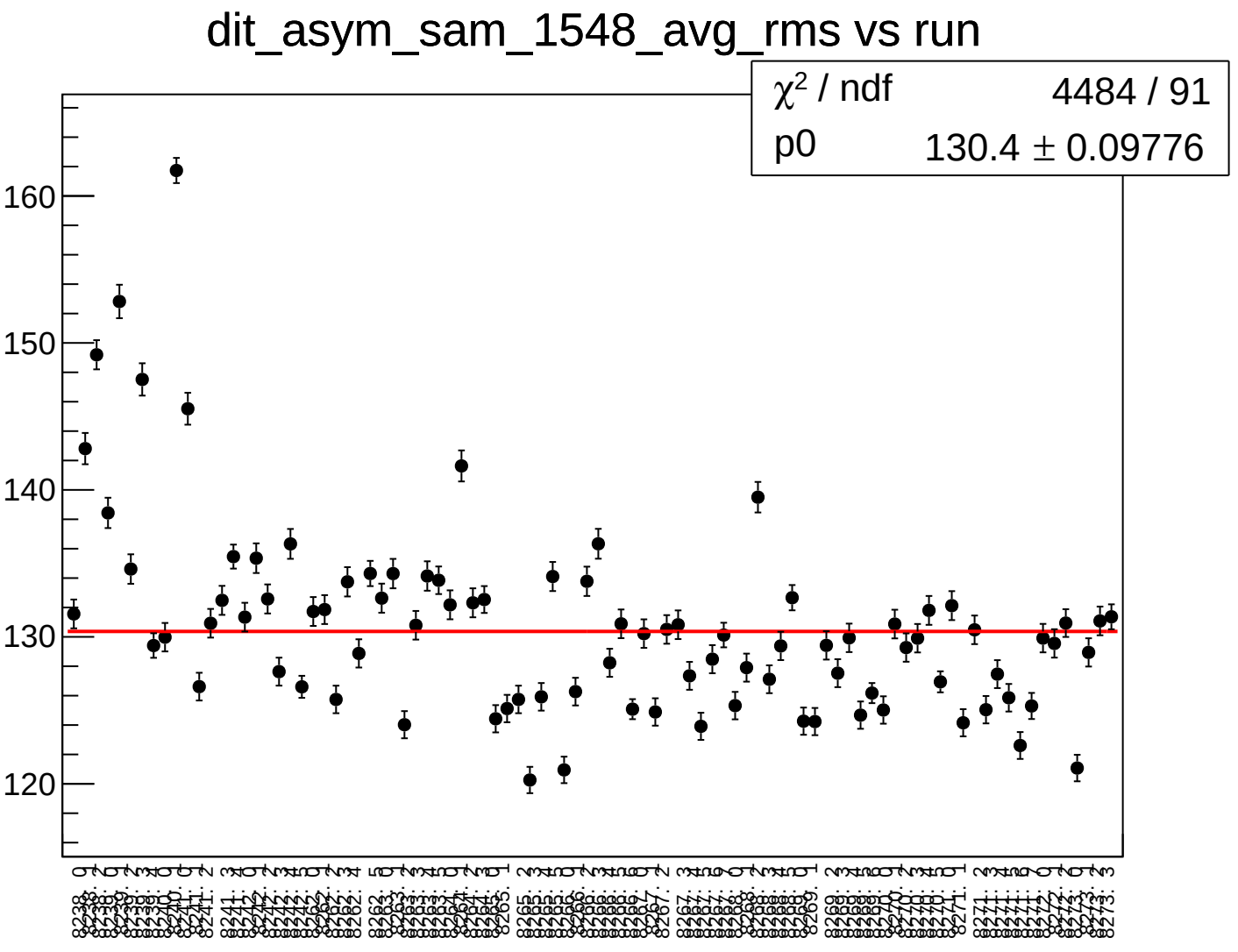

pull1D
Entries 92
Mean −0.008167
Std Dev 0.9
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

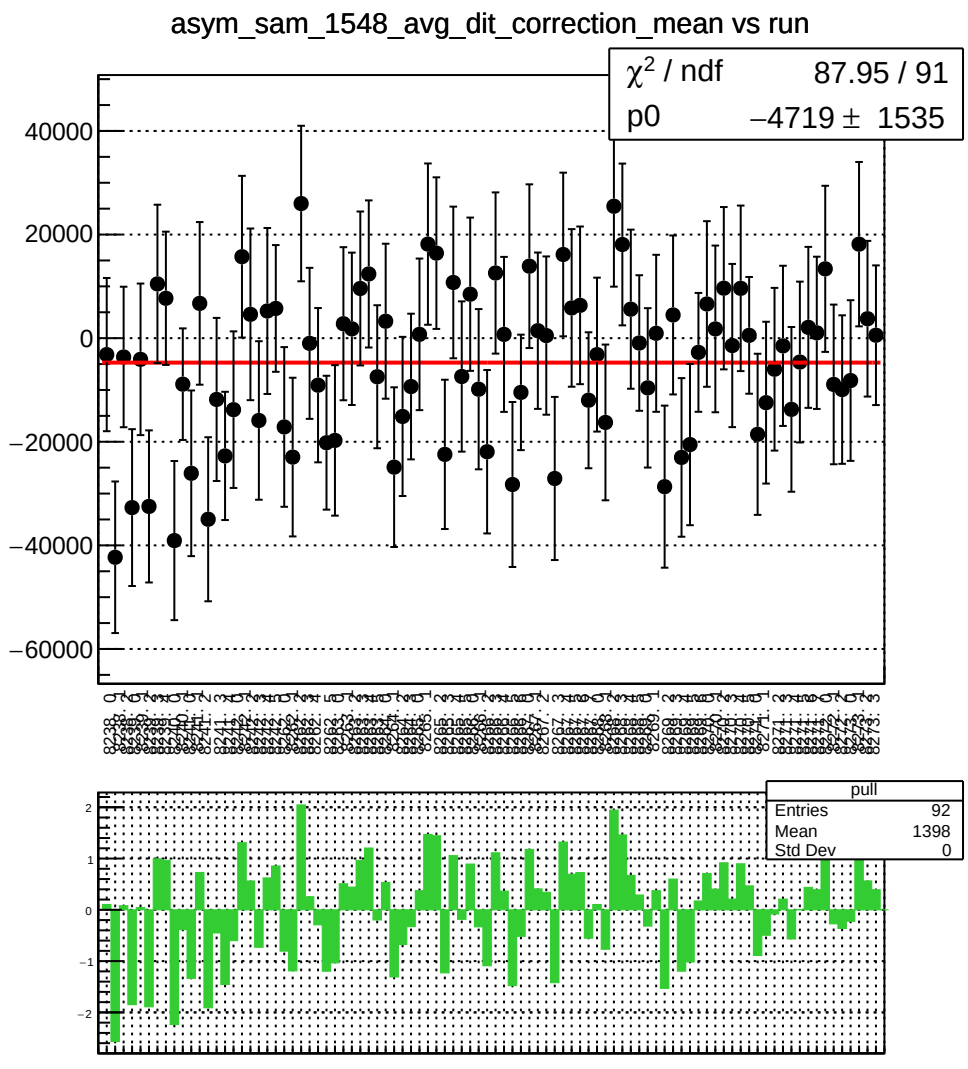

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 6907 / 91
p0 116.3 ± 0.08729
150
140
130
120
110
100

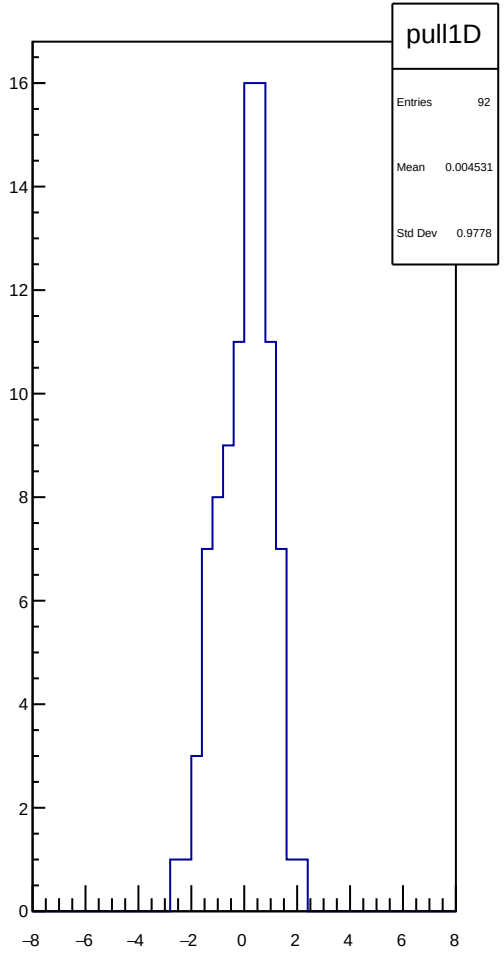

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.17 / 91
p0 −4529 ± 1509
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 1863
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.003396
Std Dev 0.9789
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

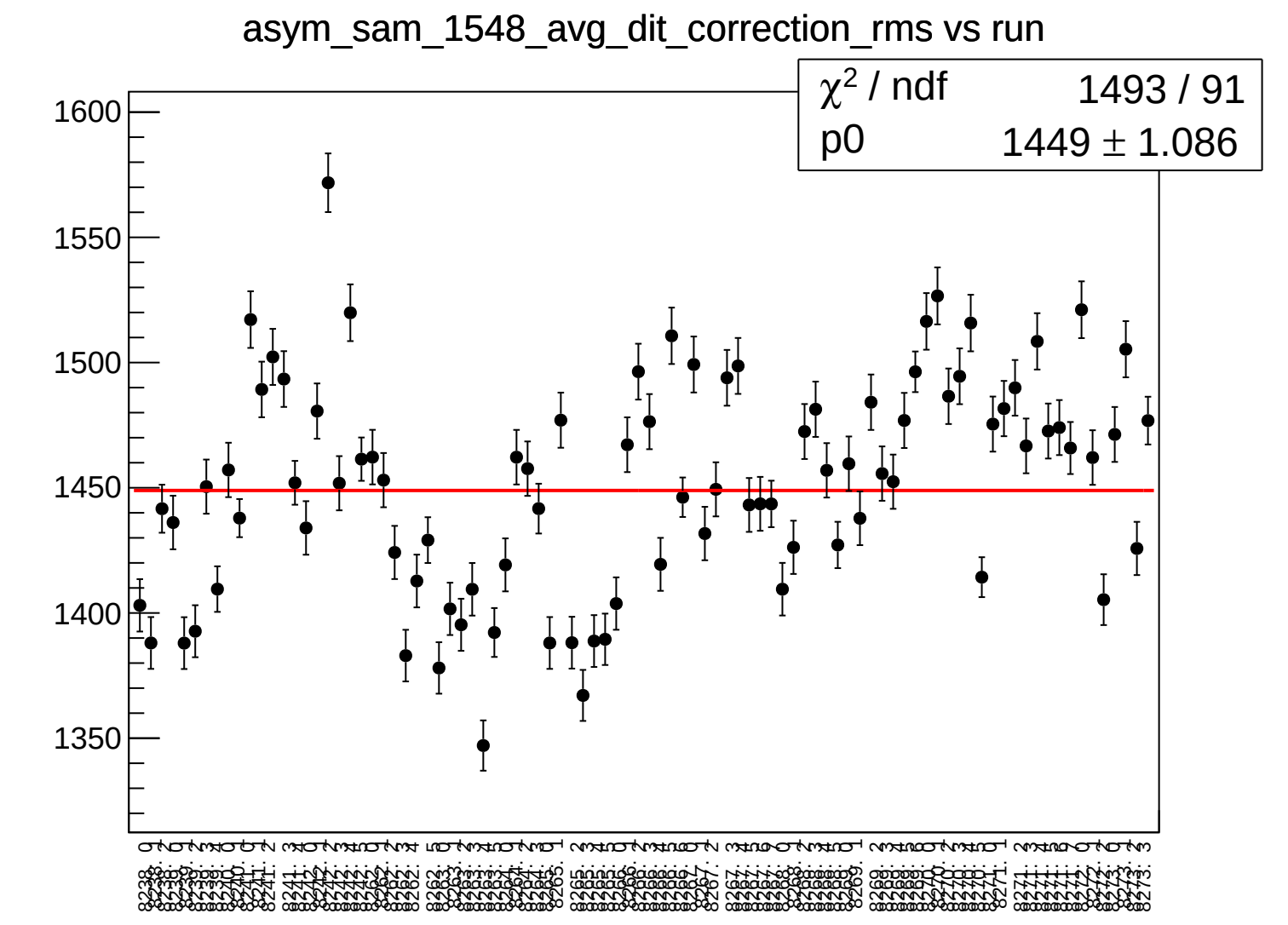

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 2165 / 91
p0 1424 ± 1.067
1600
1550
1500
1450
1400
1350
1300

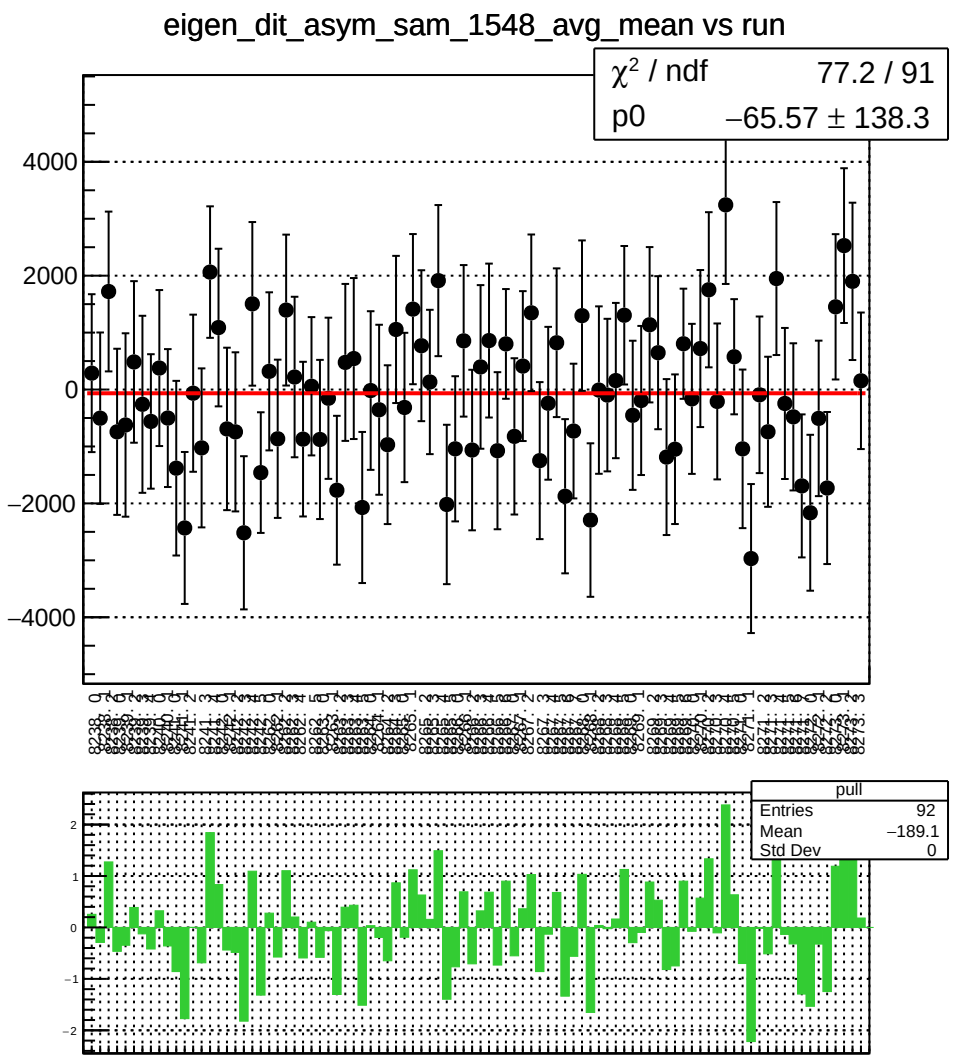

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 77.2 / 91
p0 −65.58 ± 138.3
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −189.1
Std Dev 0
pull1D
Entries 92
Mean −0.0099
Std Dev 0.916
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

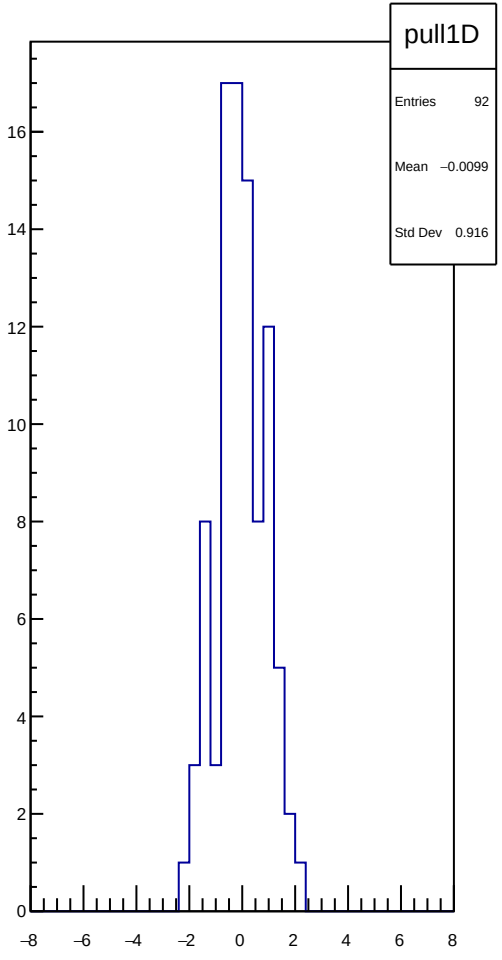

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 4484 / 91
p0 130.4 ± 0.09776
160
150
140
130
120

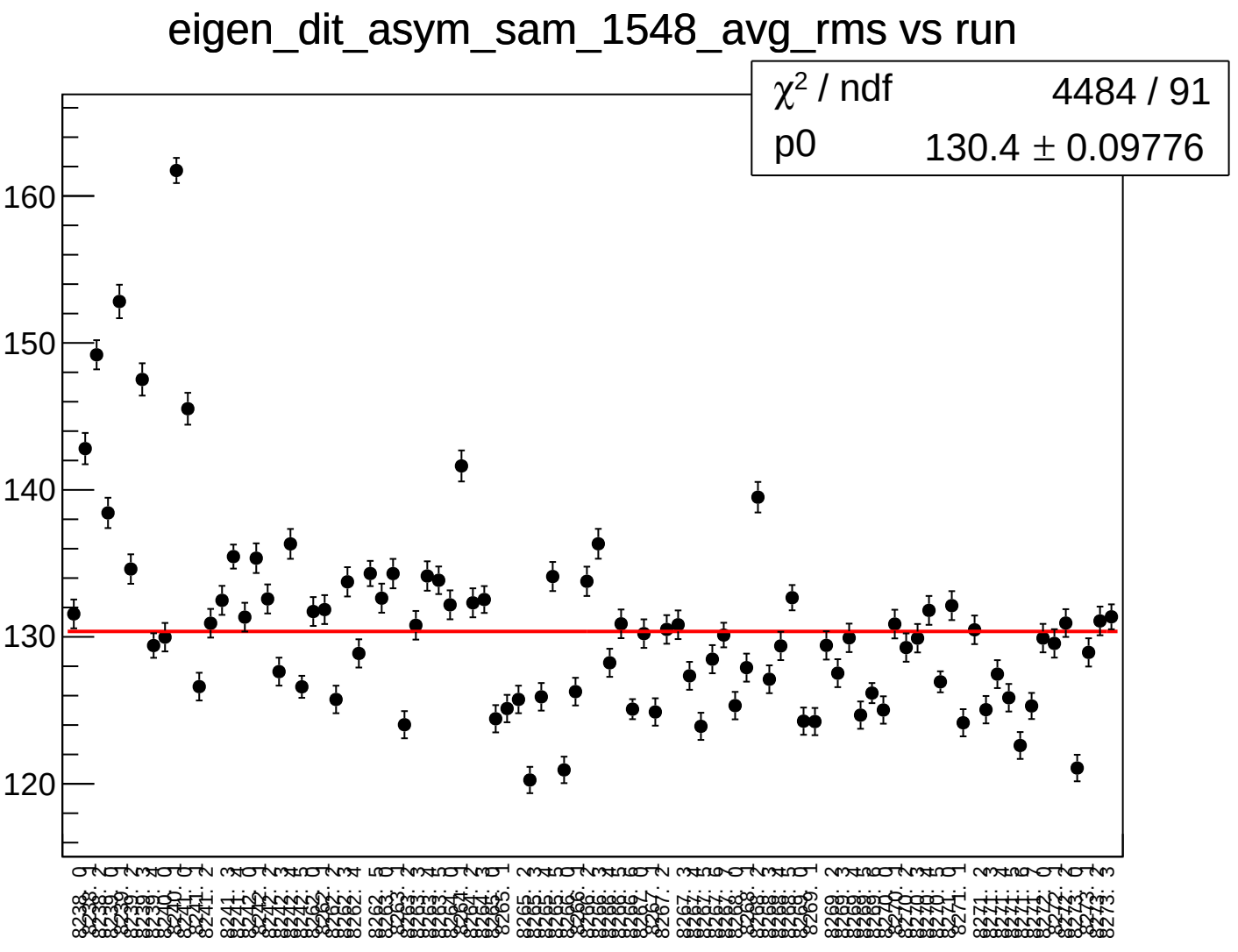

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 87.95 / 91
p0 −4719 ± 1535
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 1398
Std Dev 0
2
1
0
−1
−2

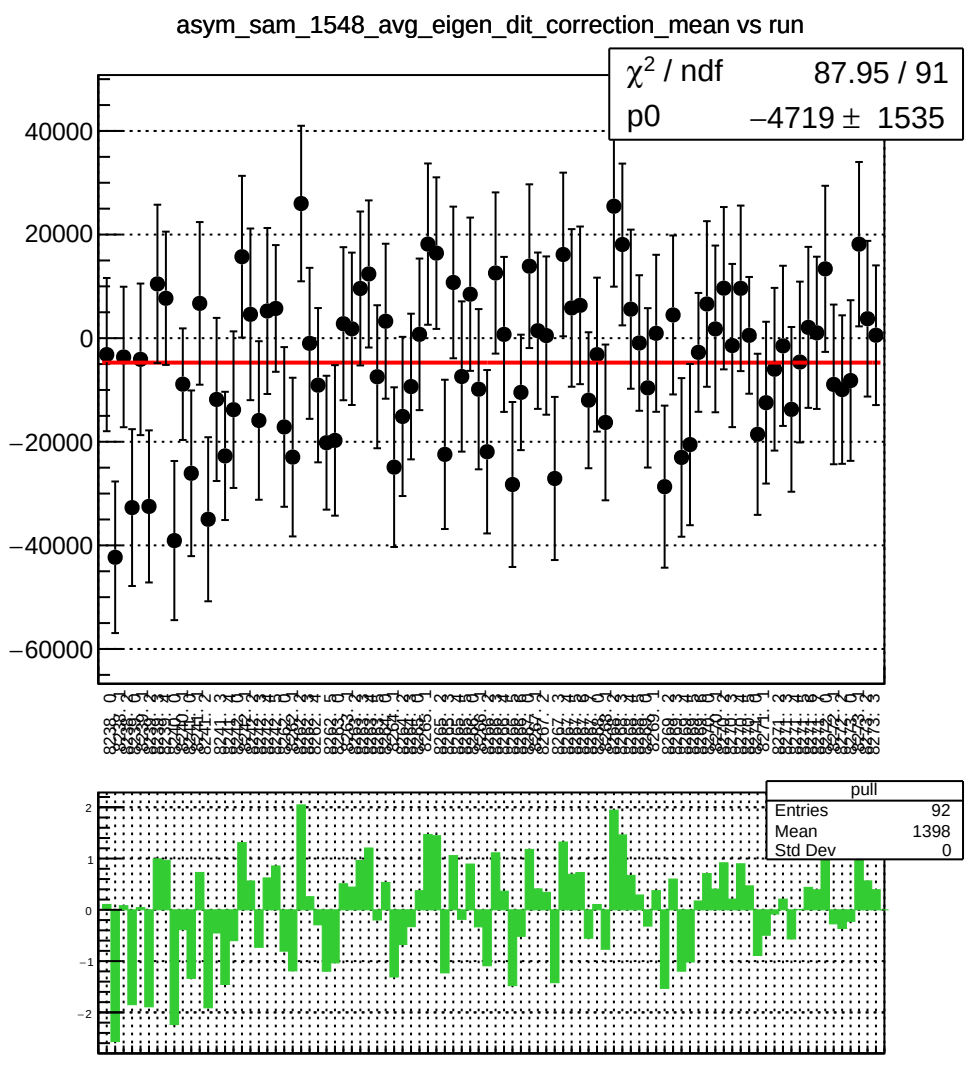

pull1D
Entries 92
Mean 0.004531
Std Dev 0.9778
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

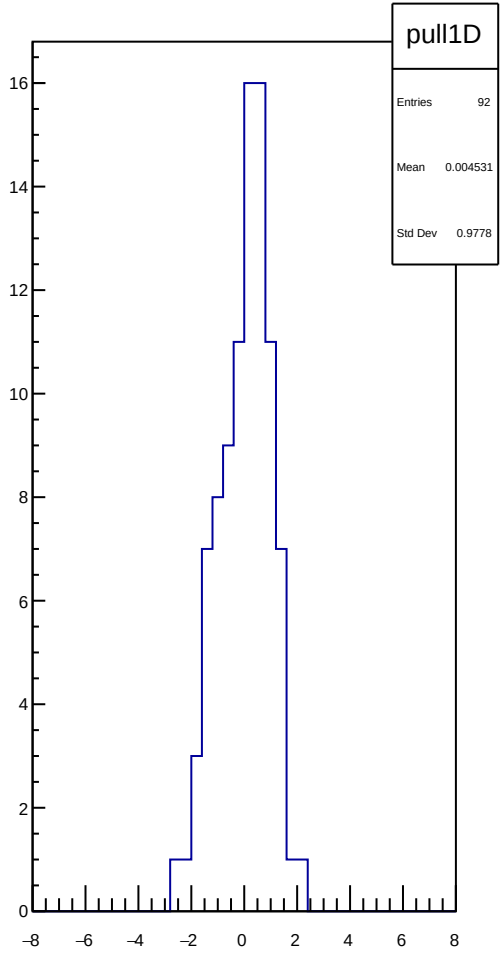

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 1493 / 91
p0 1449 ± 1.086
1600
1550
1500
1450
1400
1350

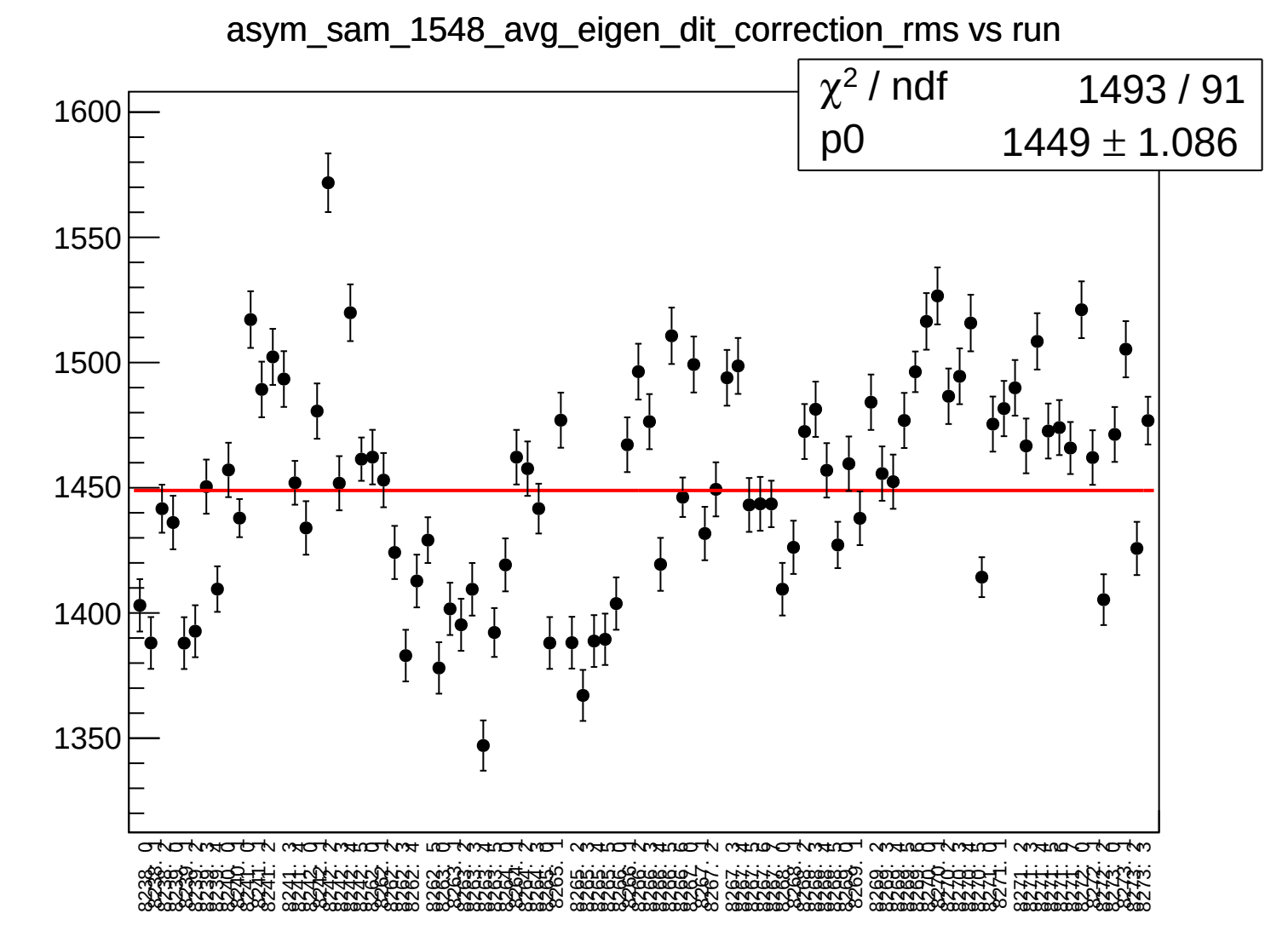

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 77.2 / 91
p0 −65.57 ± 138.3
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −189.1
Std Dev 0
2
1
0
−1
−2

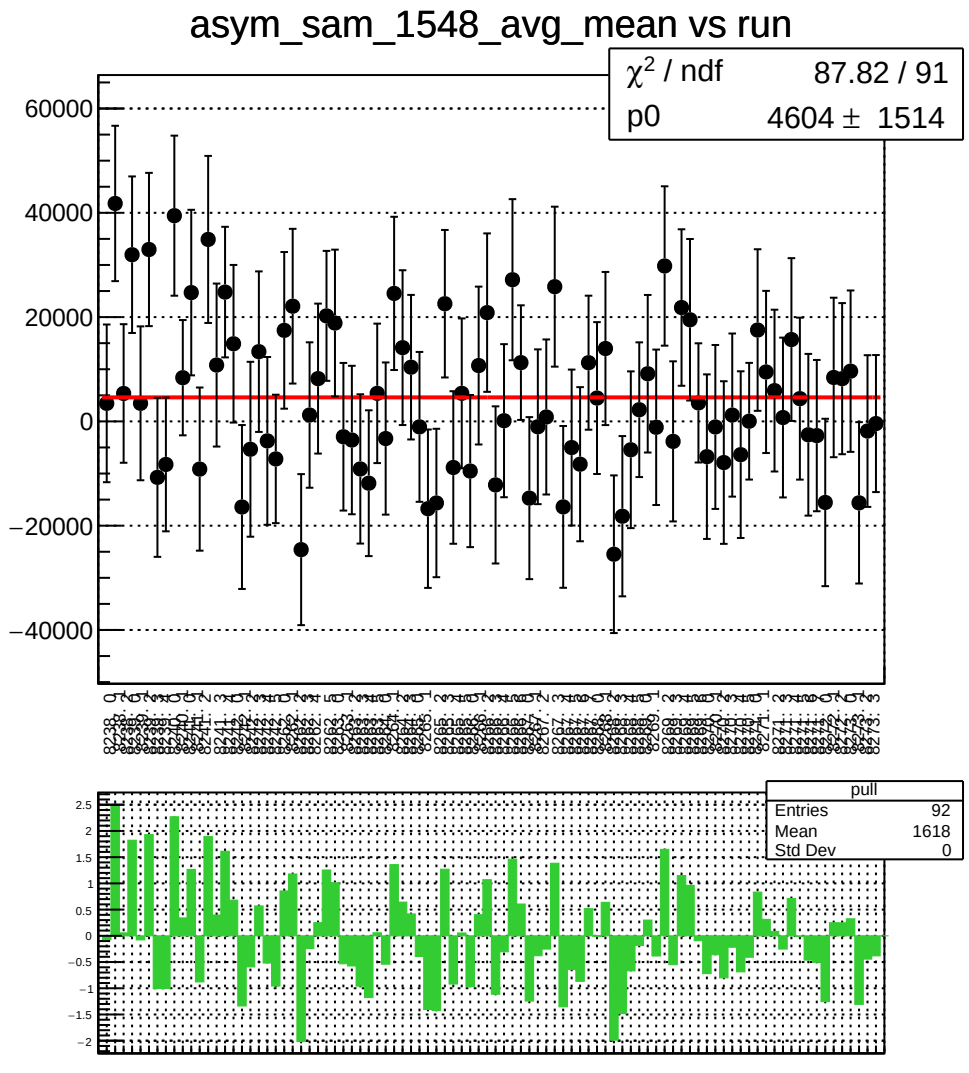

pull1D
Entries 92
Mean −0.0099
Std Dev 0.916
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

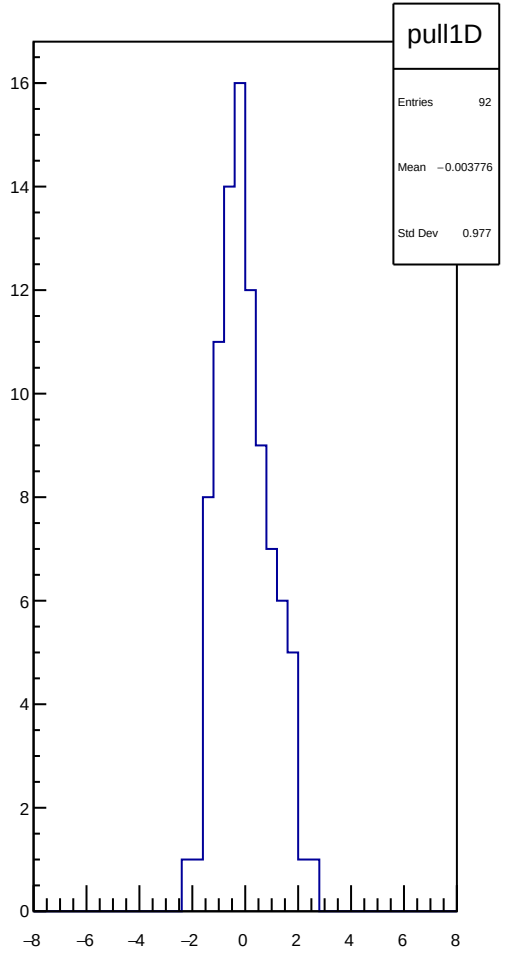

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 4484 / 91
p0 130.4 ± 0.09776
160
150
140
130
120

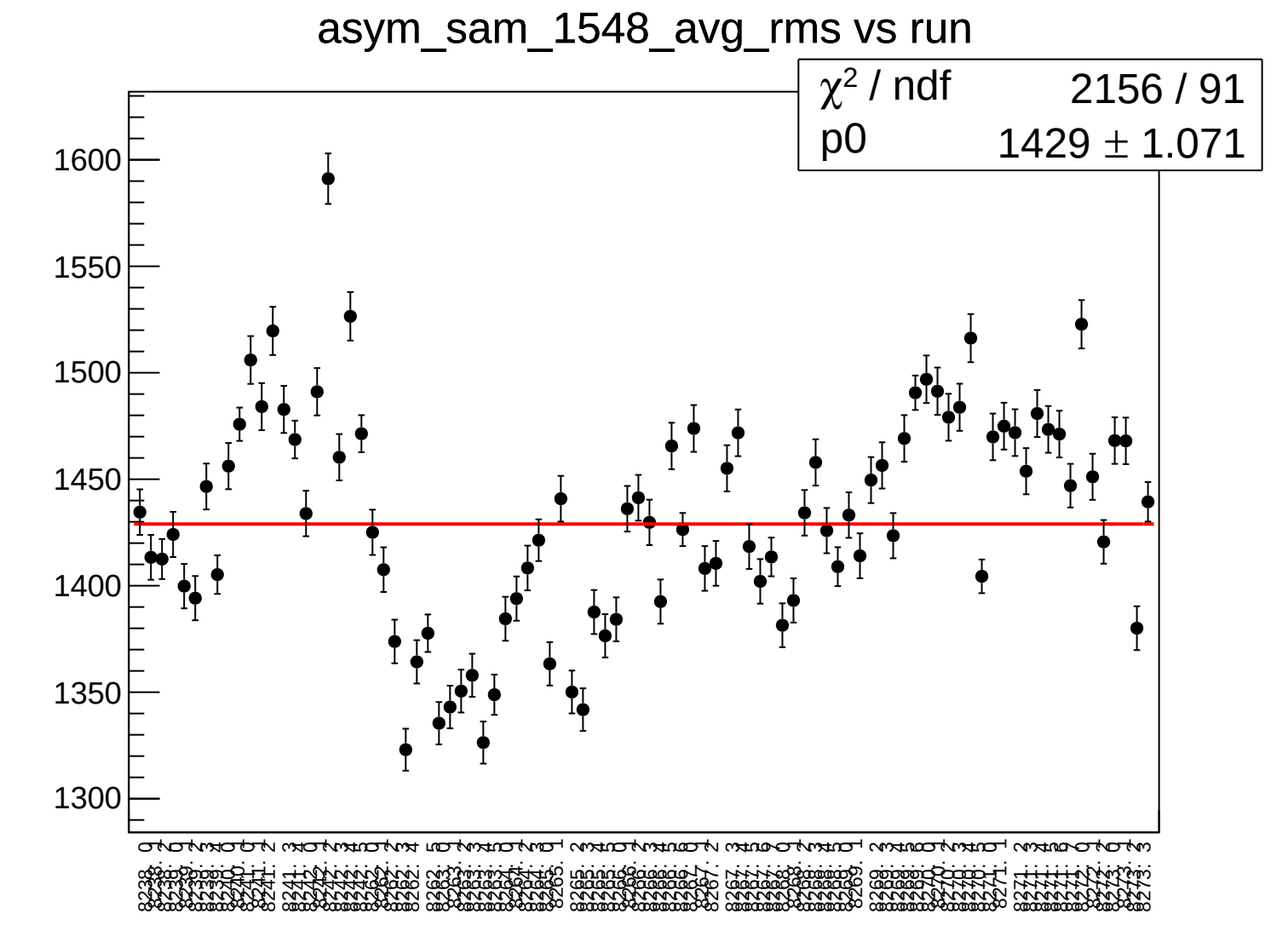

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.95 / 91
p0 −4719 ± 1535
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 1398
Std Dev 0
2
1
0
−1
−2

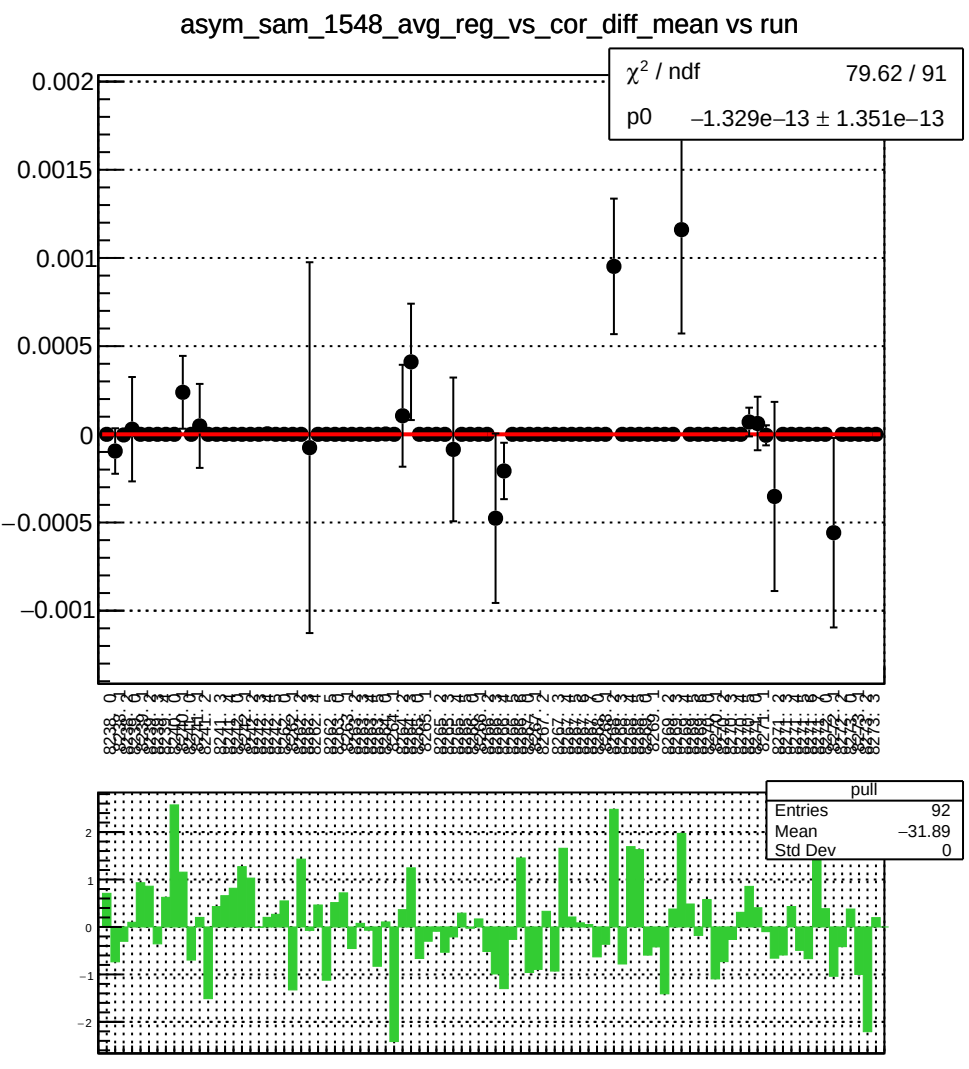

pull1D
Entries 92
Mean 0.004531
Std Dev 0.9778
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

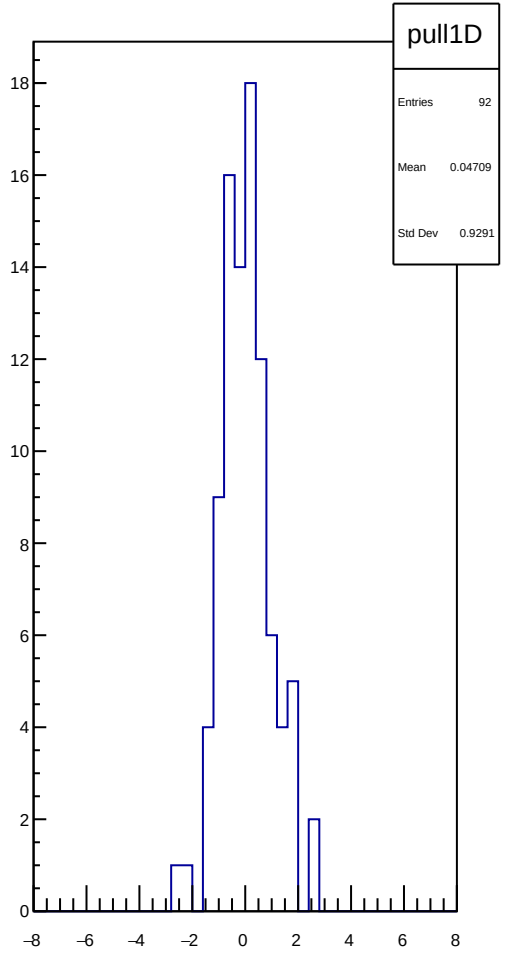

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 1493 / 91
p0 1449 ± 1.086
1600
1550
1500
1450
1400
1350

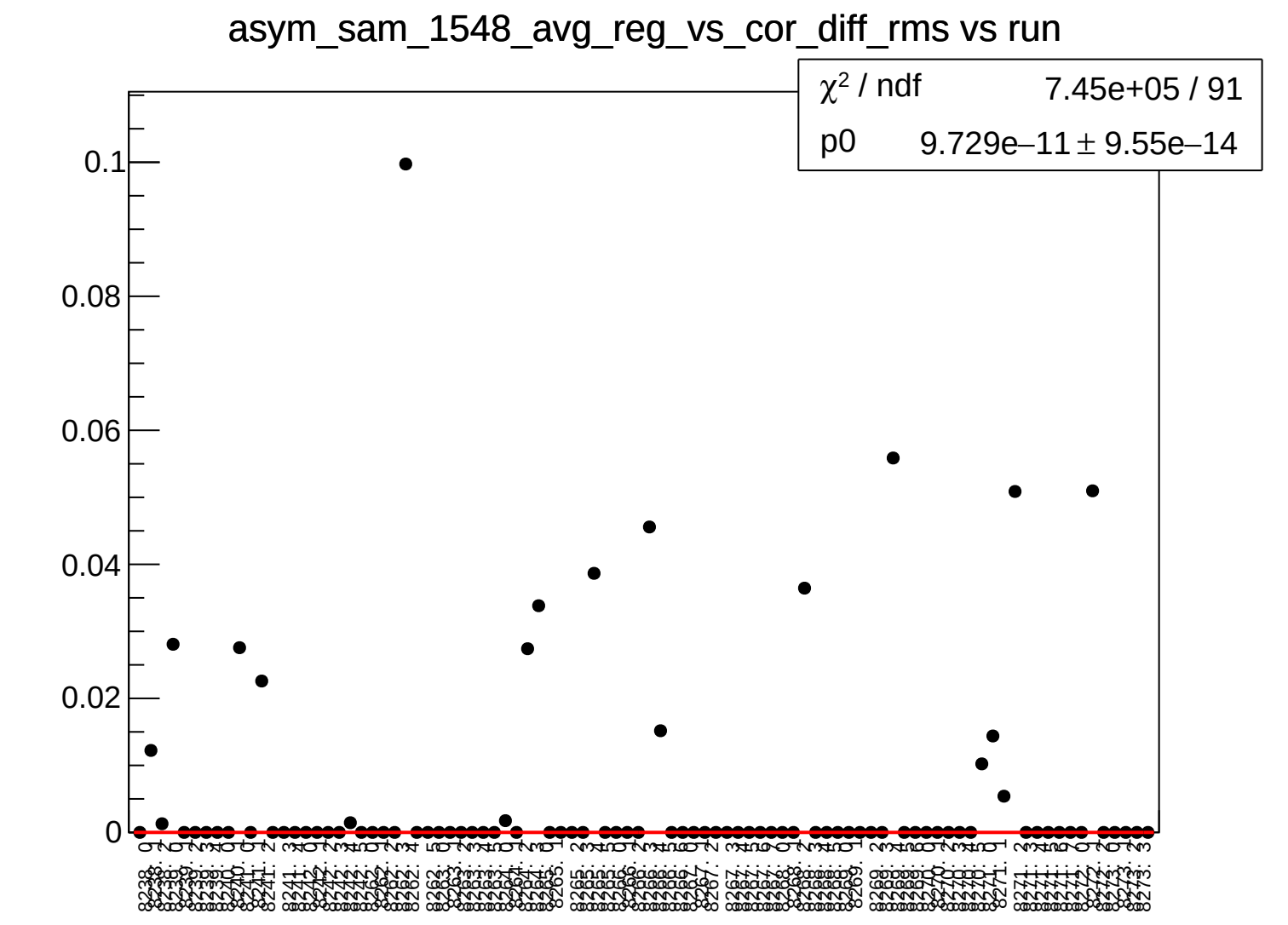

asym_sam_1548_avg_mean vs run
χ² / ndf 87.82 / 91
p0 4604 ± 1514
pull
Entries 92
Mean 1618
Std Dev 0

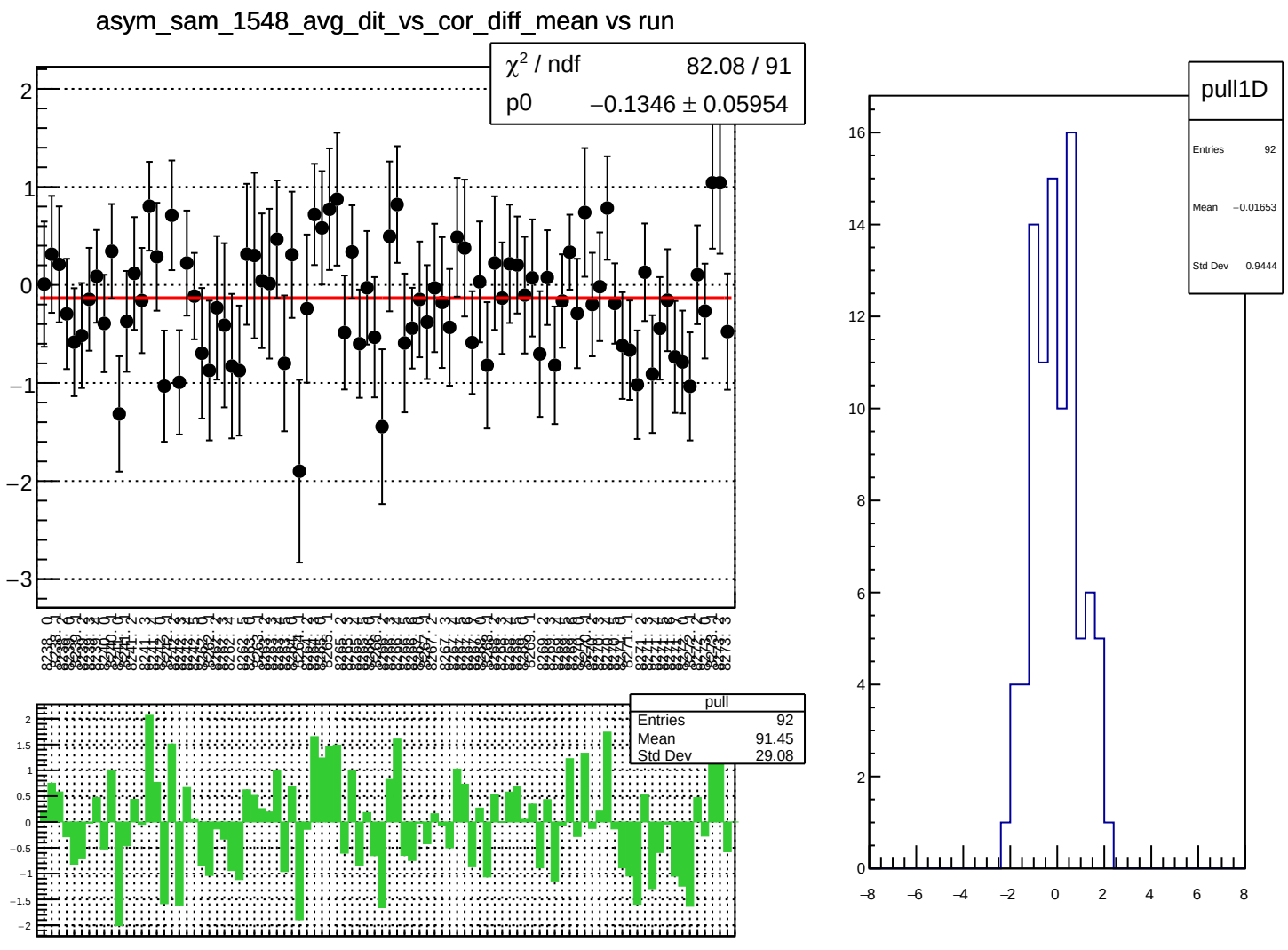

pull1D
Entries 92
Mean −0.003776
Std Dev 0.977

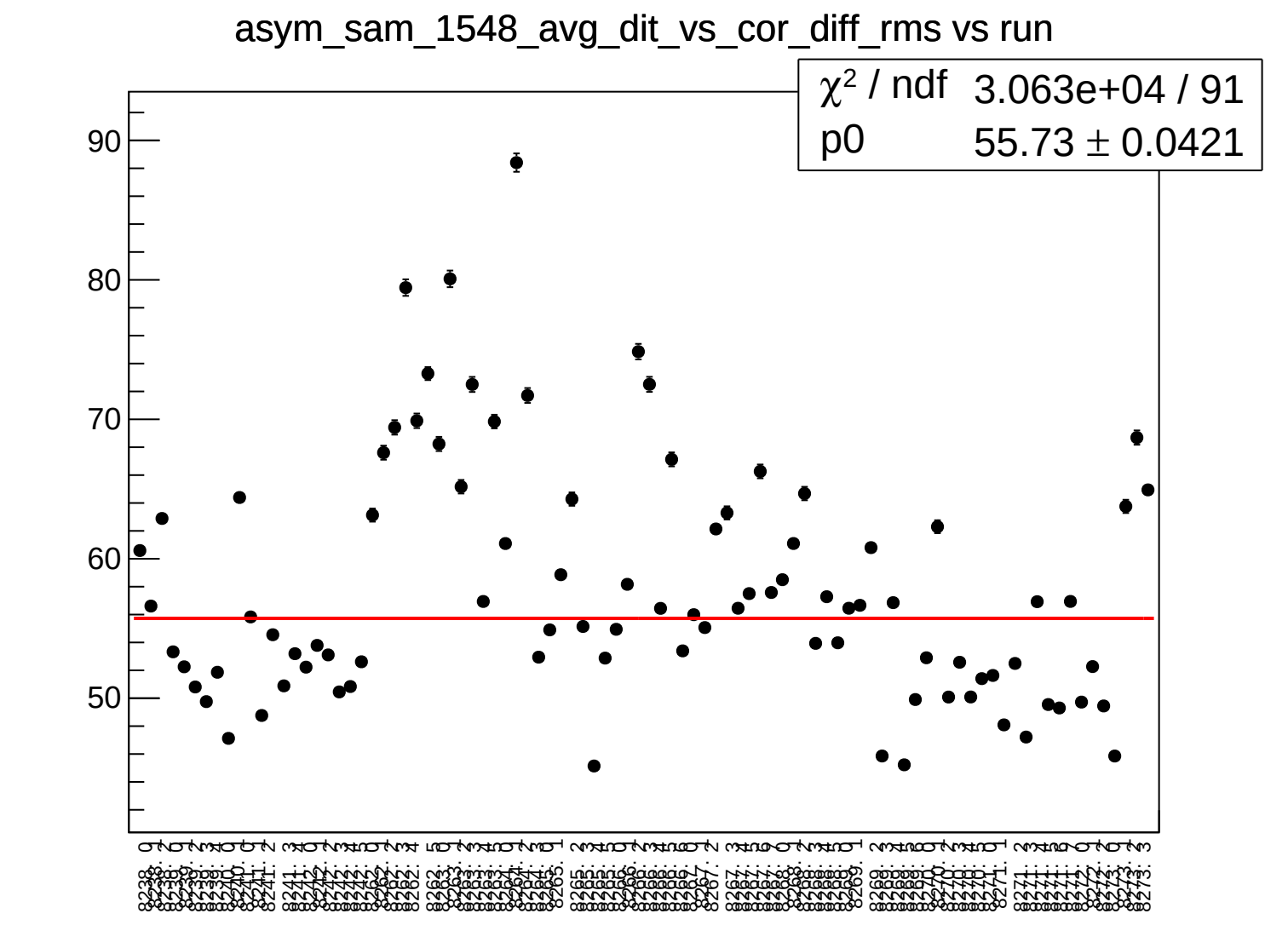

asym_sam_1548_avg_rms vs run
χ² / ndf 2156 / 91
p0 1429 ± 1.071
1600
1550
1500
1450
1400
1350
1300

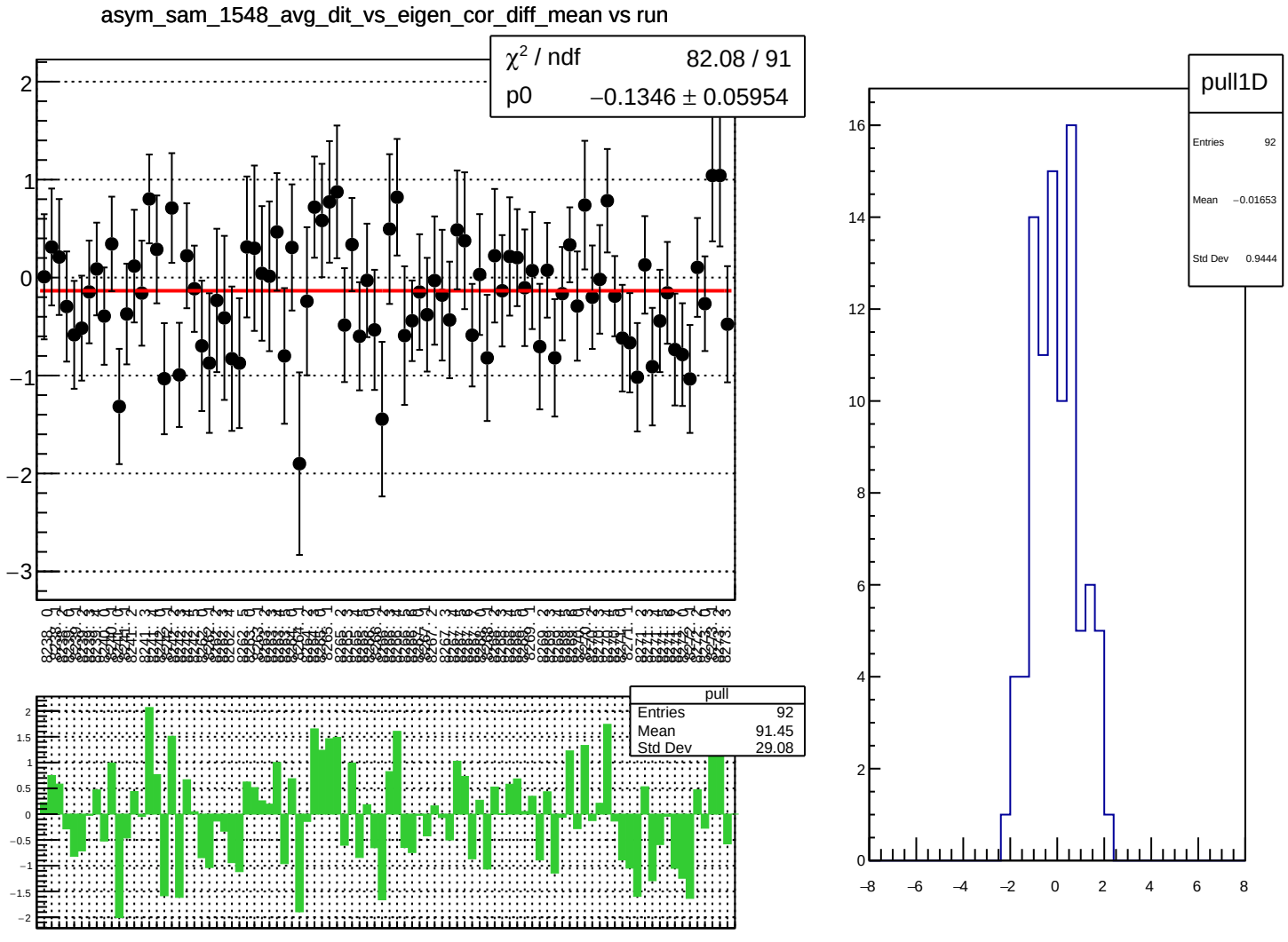

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.62 / 91
p0 −1.329e−13 ± 1.351e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean −31.89
Std Dev 0
2
1
0
−1
−2

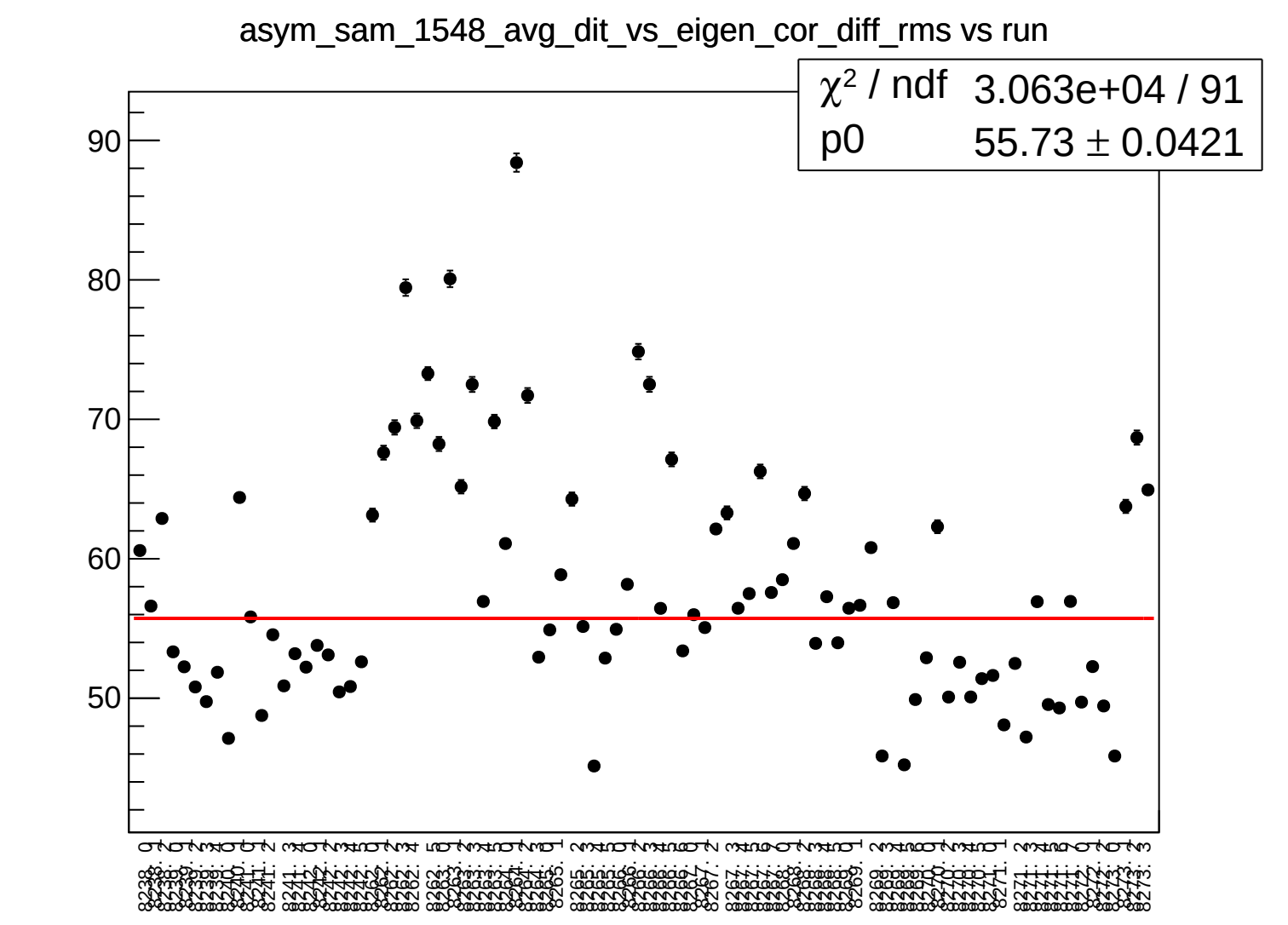

pull1D
Entries 92
Mean 0.04709
Std Dev 0.9291
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

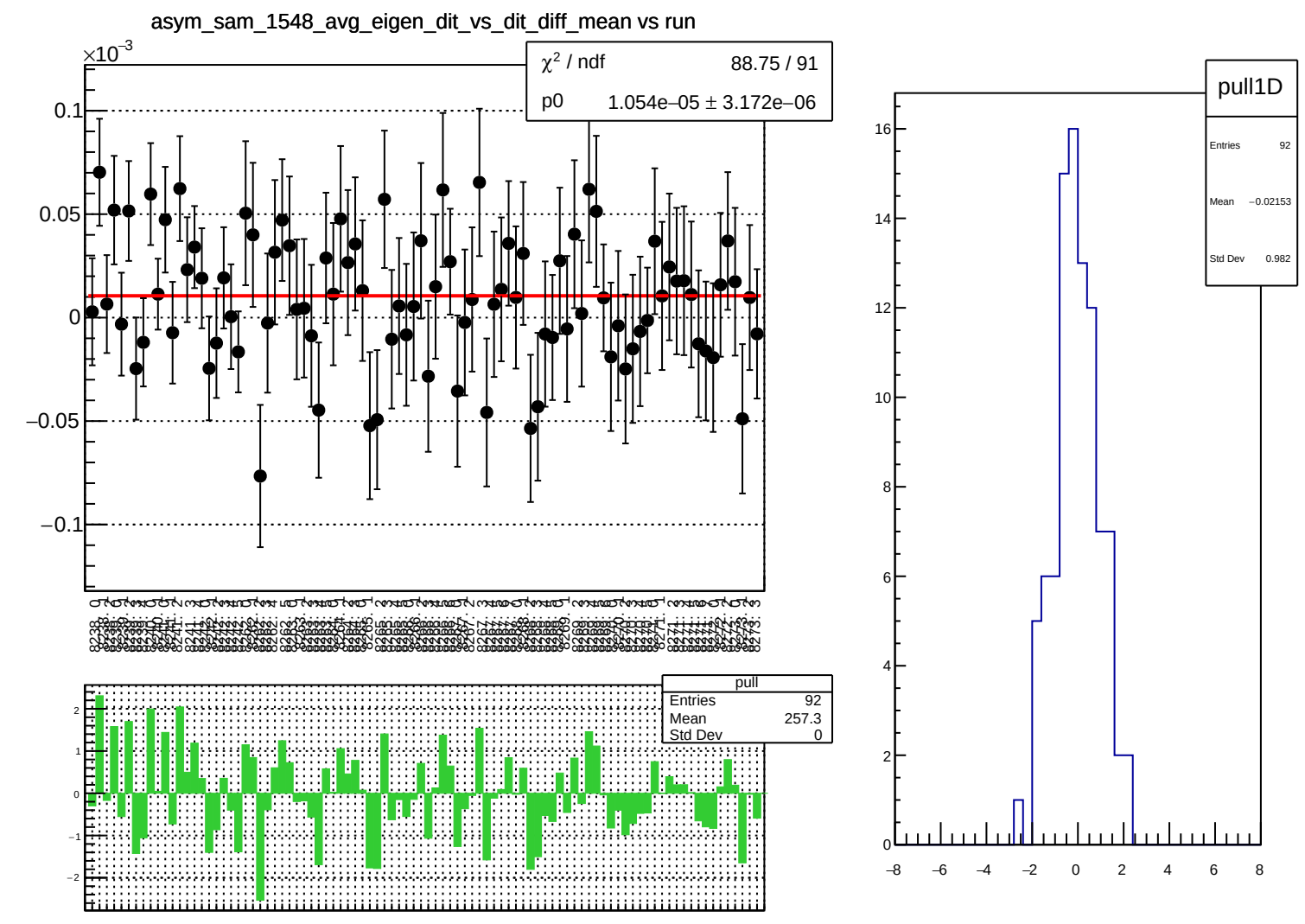

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.45e+05 / 91
p0 9.729e−11 ± 9.55e−14
0.1
0.08
0.06
0.04
0.02
0

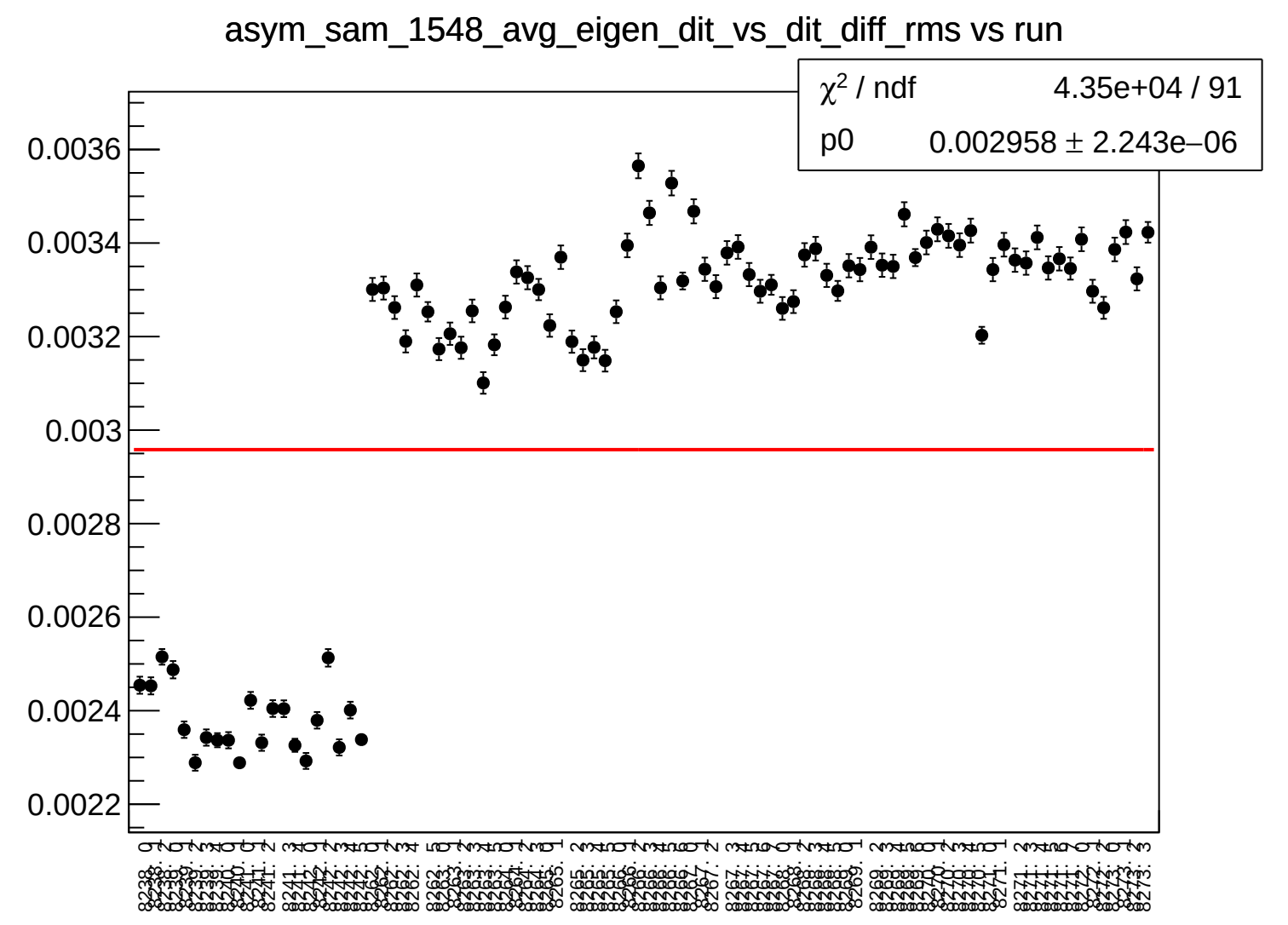

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.08 / 91
p0 −0.1346 ± 0.05954
pull
Entries 92
Mean 91.45
Std Dev 29.08
pull1D
Entries 92
Mean −0.01653
Std Dev 0.9444

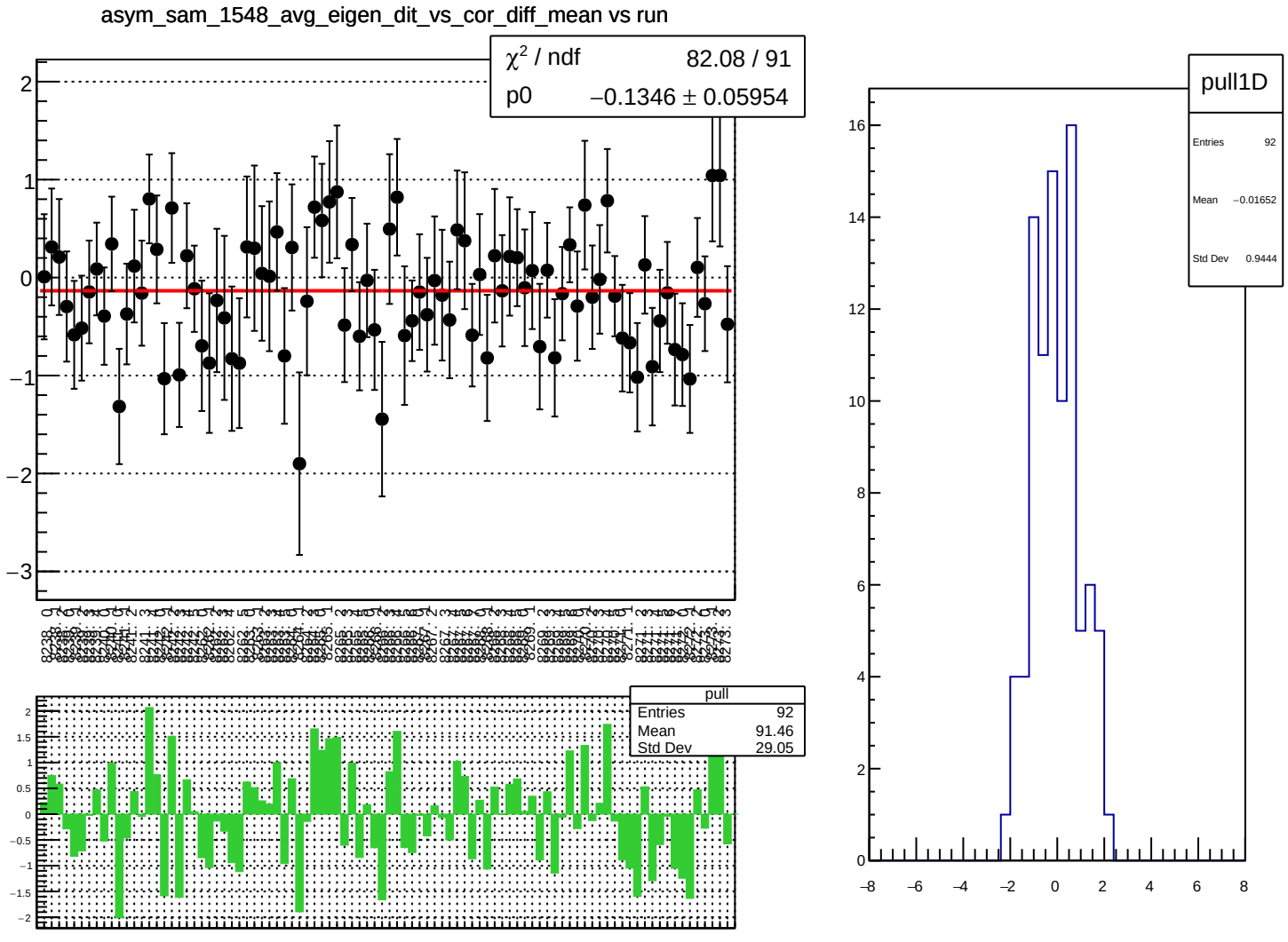

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.063e+04 / 91
p0 55.73 ± 0.0421
90
80
70
60
50

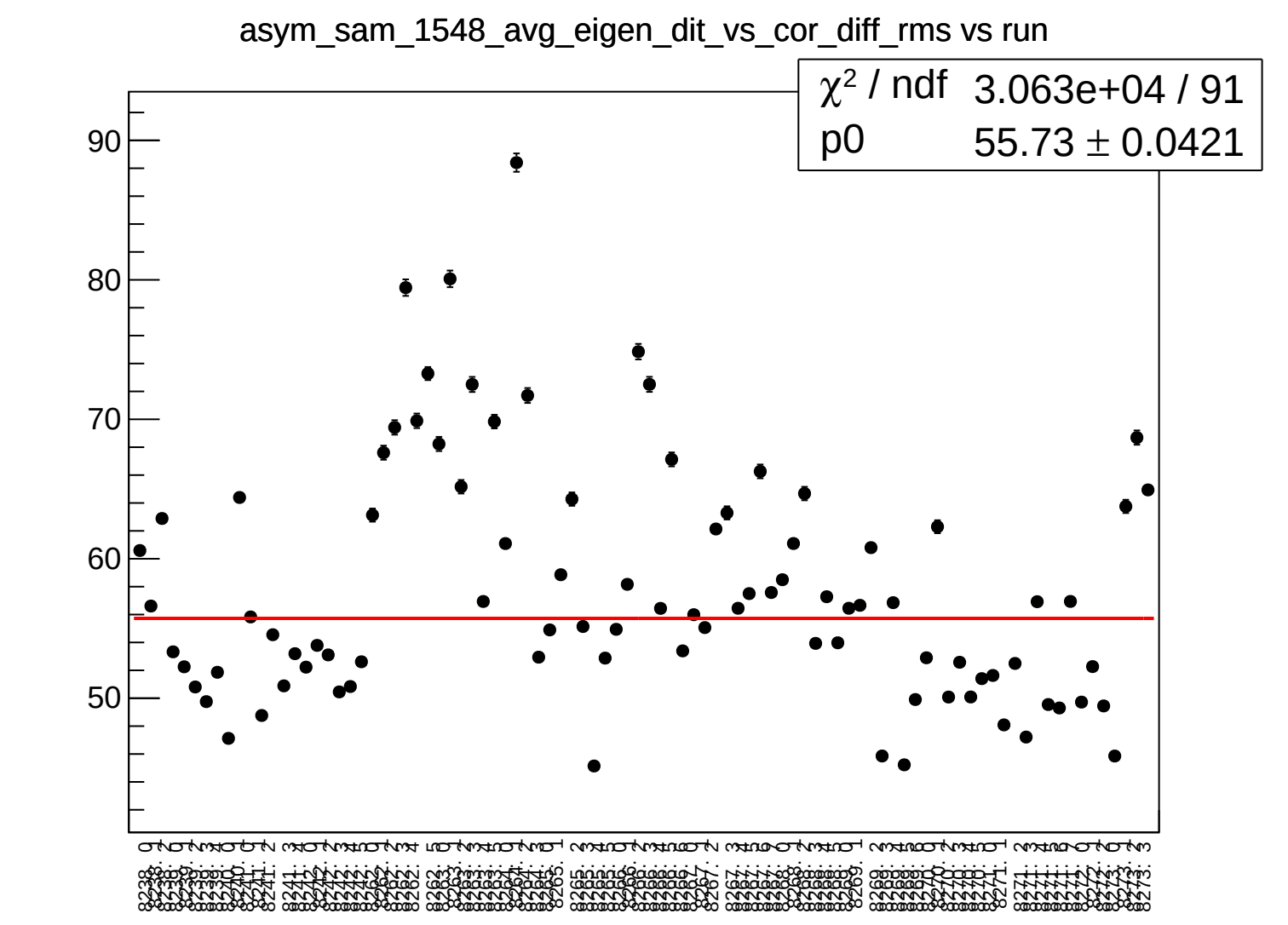

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.08 / 91
p0 −0.1346 ± 0.05954
pull
Entries 92
Mean 91.45
Std Dev 29.08
pull1D
Entries 92
Mean −0.01653
Std Dev 0.9444

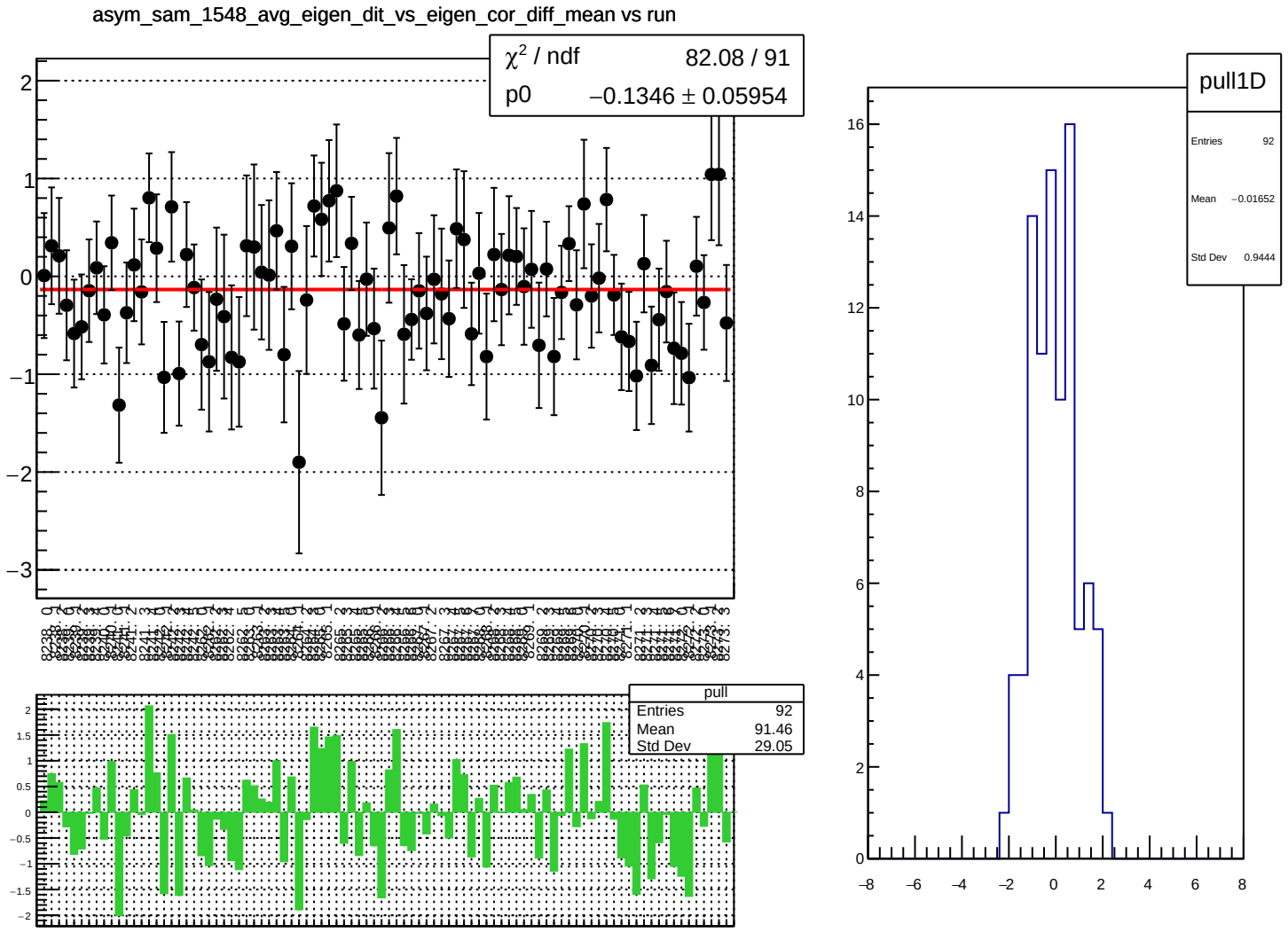

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.063e+04 / 91
p0 55.73 ± 0.0421
90
80
70
60
50

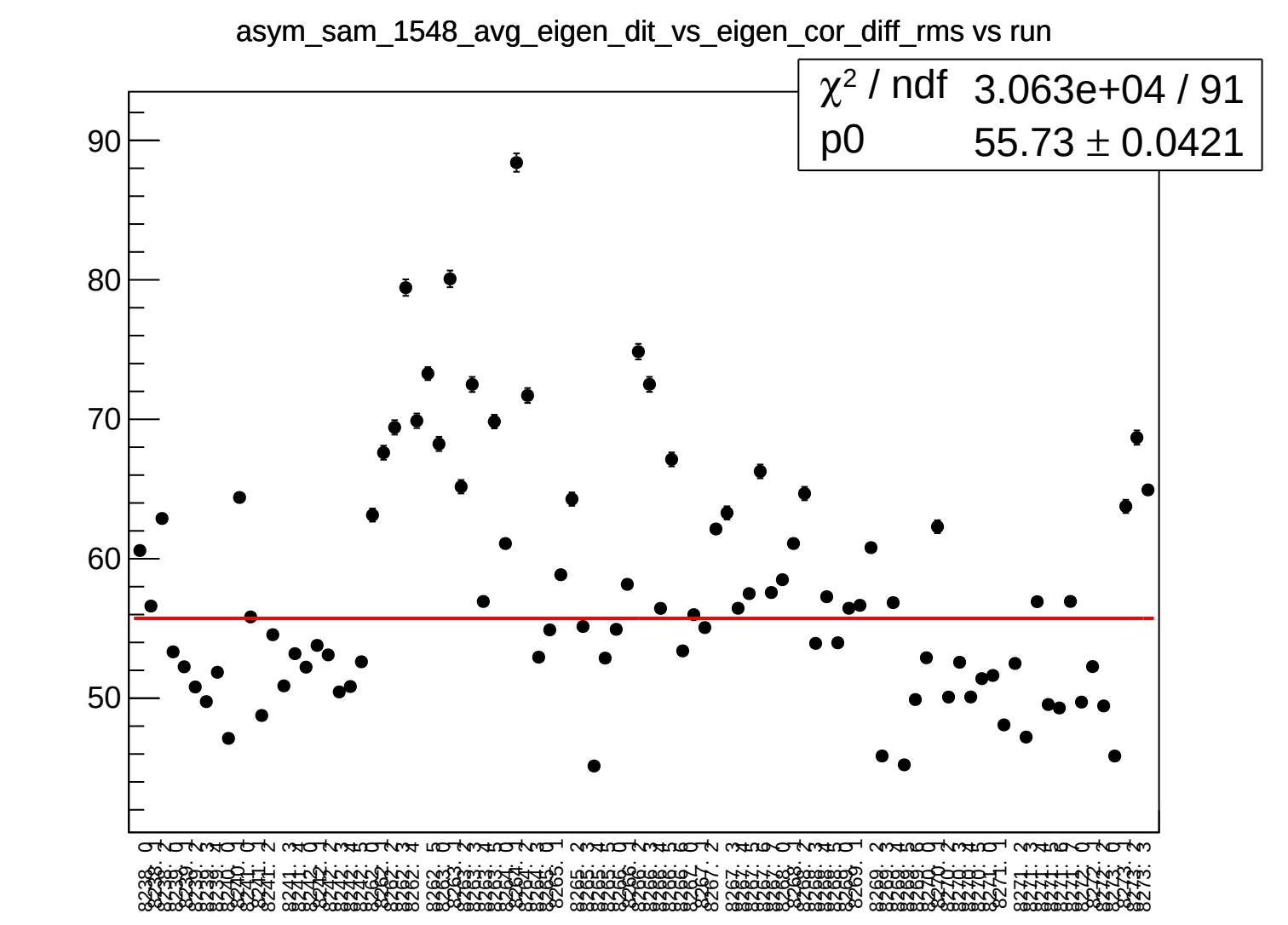

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.75 / 91
p0 1.054e−05 ± 3.172e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean 257.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.02153
Std Dev 0.982
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

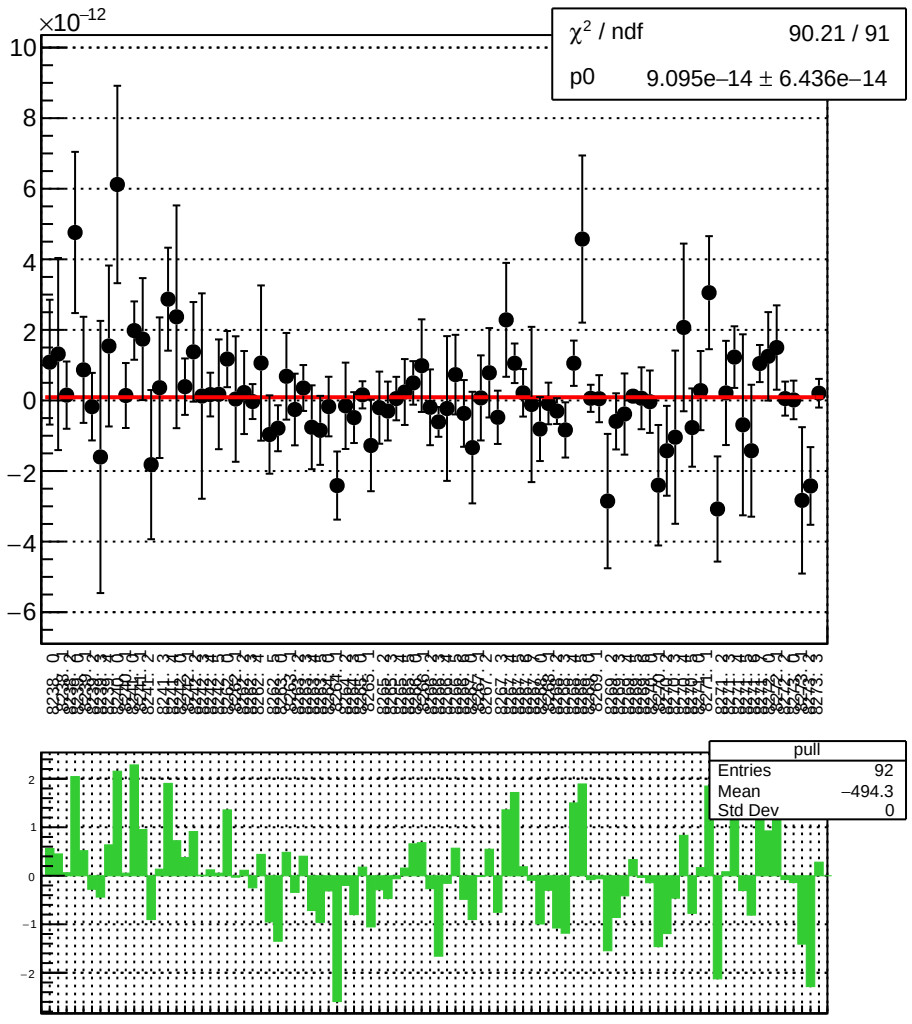

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.35e+04 / 91
p0 0.002958 ± 2.243e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

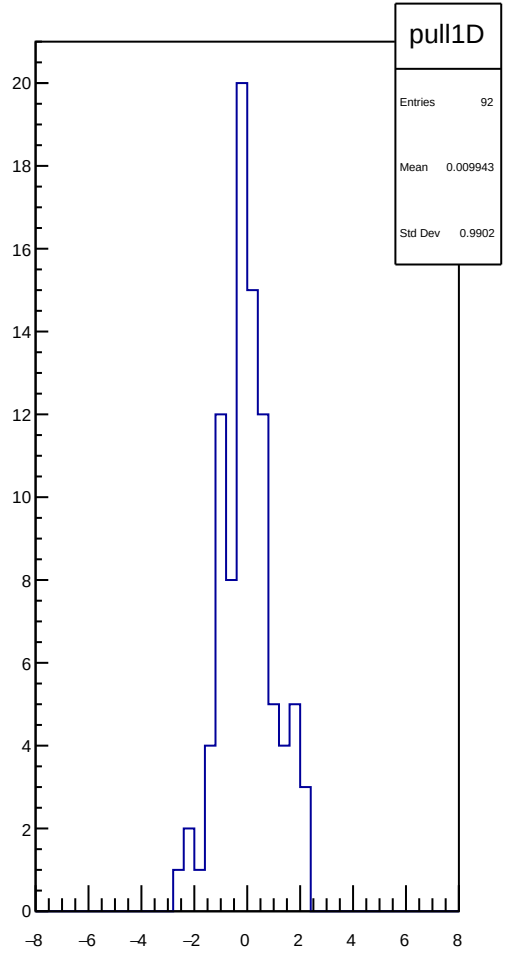

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.08 / 91
p0 −0.1346 ± 0.05954
pull
Entries 92
Mean 91.46
Std Dev 29.05
pull1D
Entries 92
Mean −0.01652
Std Dev 0.9444

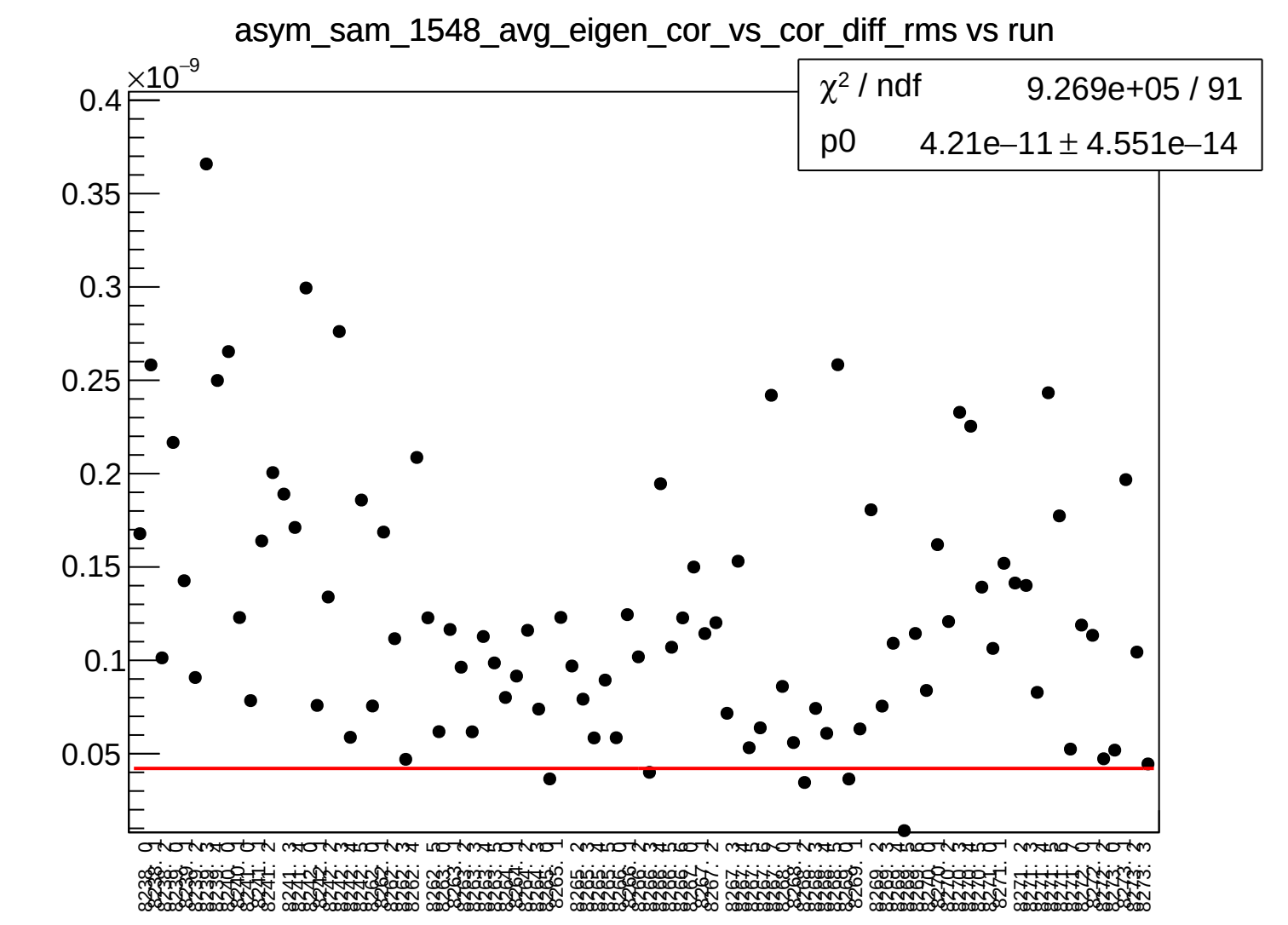

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.063e+04 / 91
p0 55.73 ± 0.0421
90
80
70
60
50

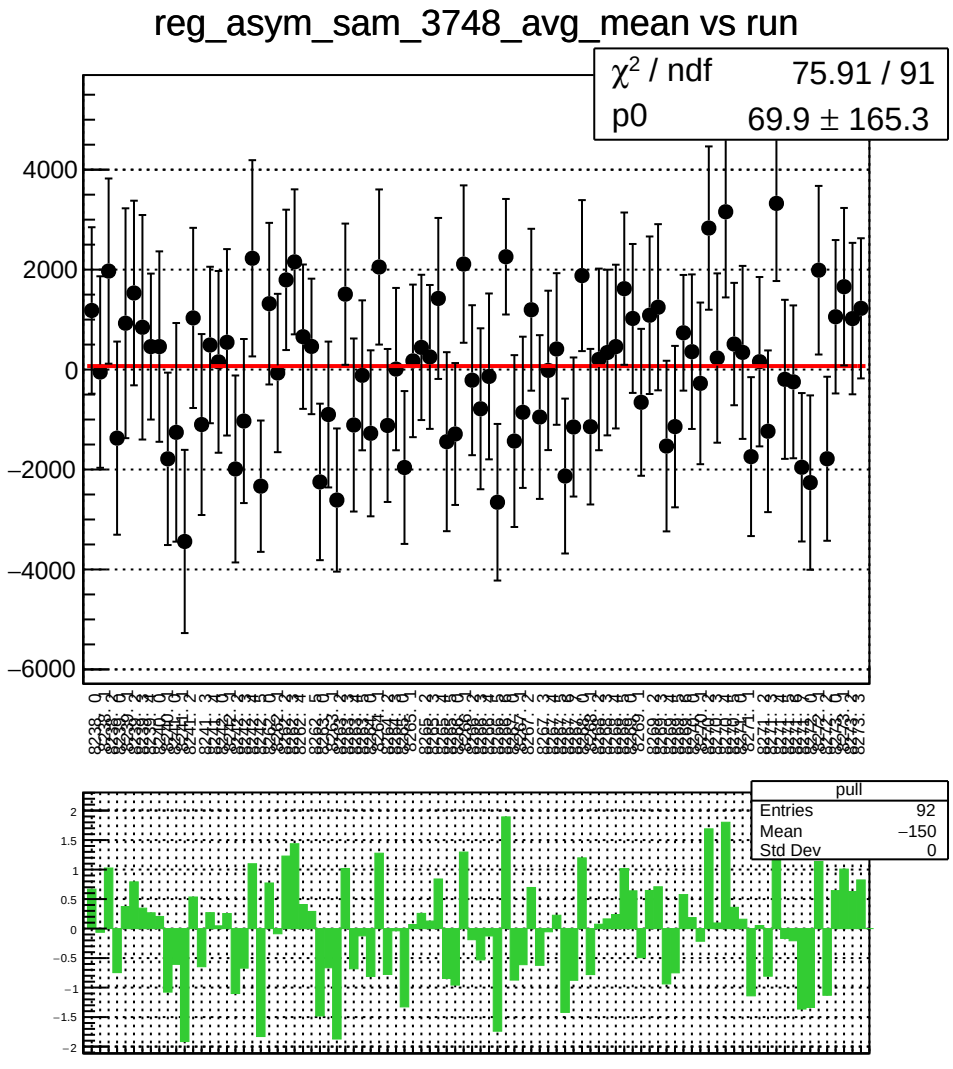

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.08 / 91
p0 −0.1346 ± 0.05954
pull
Entries 92
Mean 91.46
Std Dev 29.05
pull1D
Entries 92
Mean −0.01652
Std Dev 0.9444

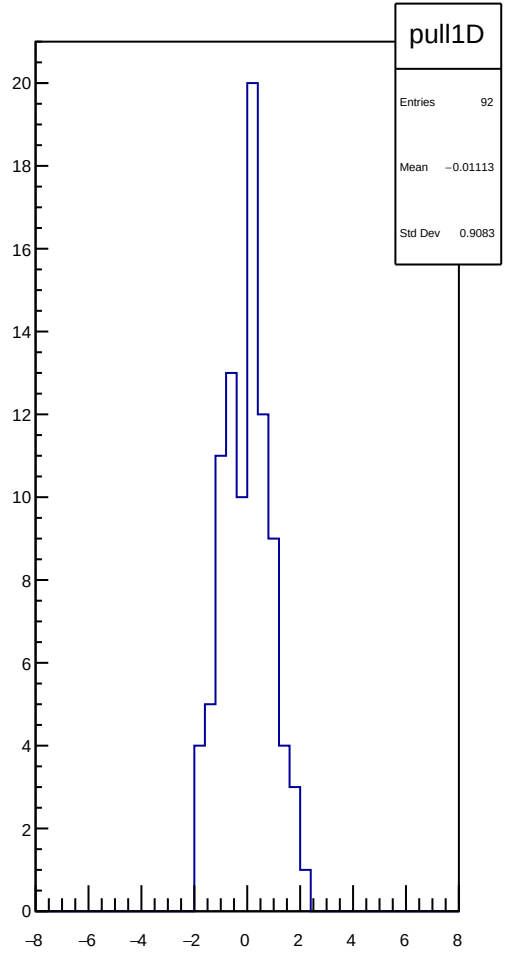

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.063e+04 / 91
p0 55.73 ± 0.0421
90
80
70
60
50

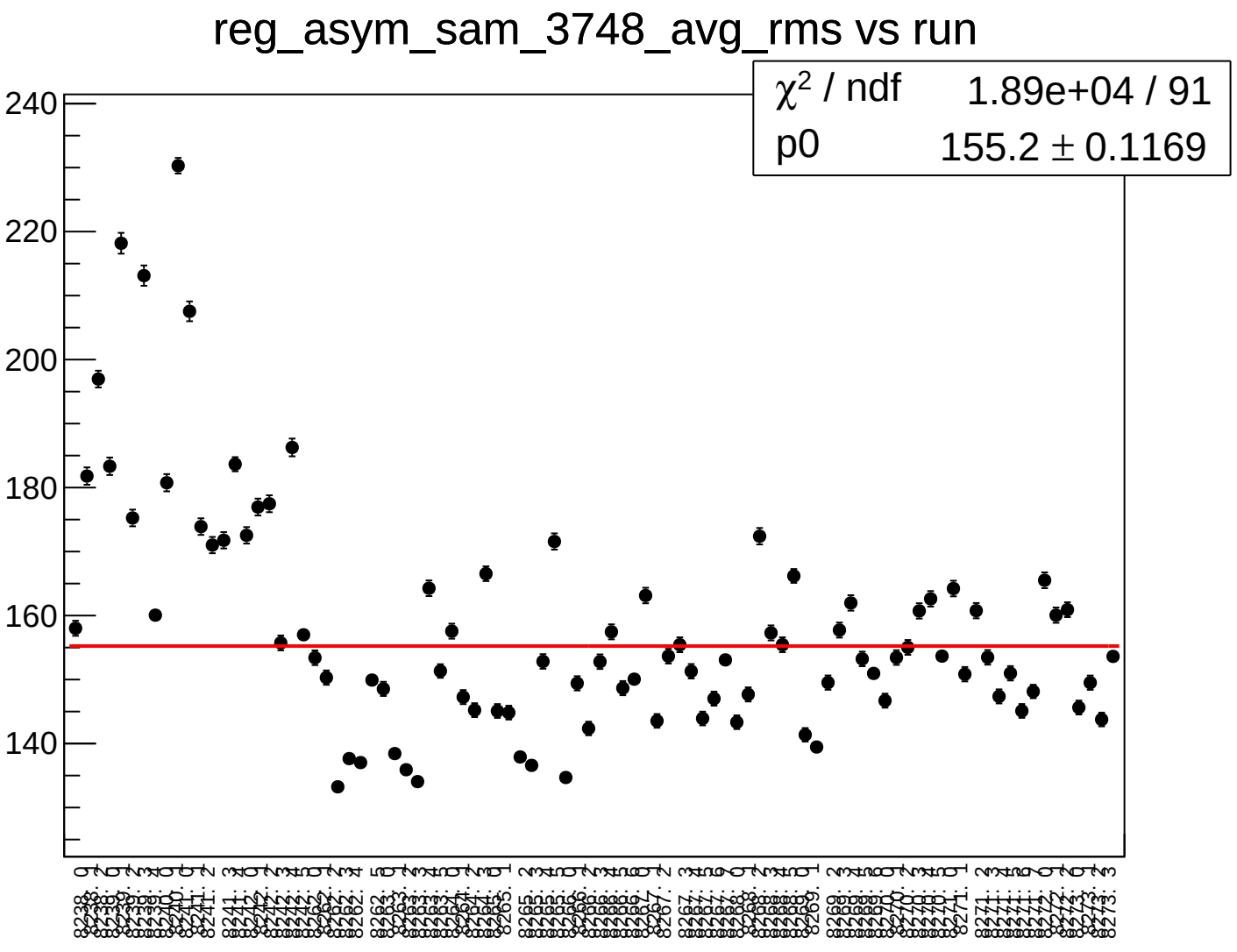

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.21 / 91
p0 9.095e−14 ± 6.436e−14
pull
Entries 92
Mean −494.3
Std Dev 0

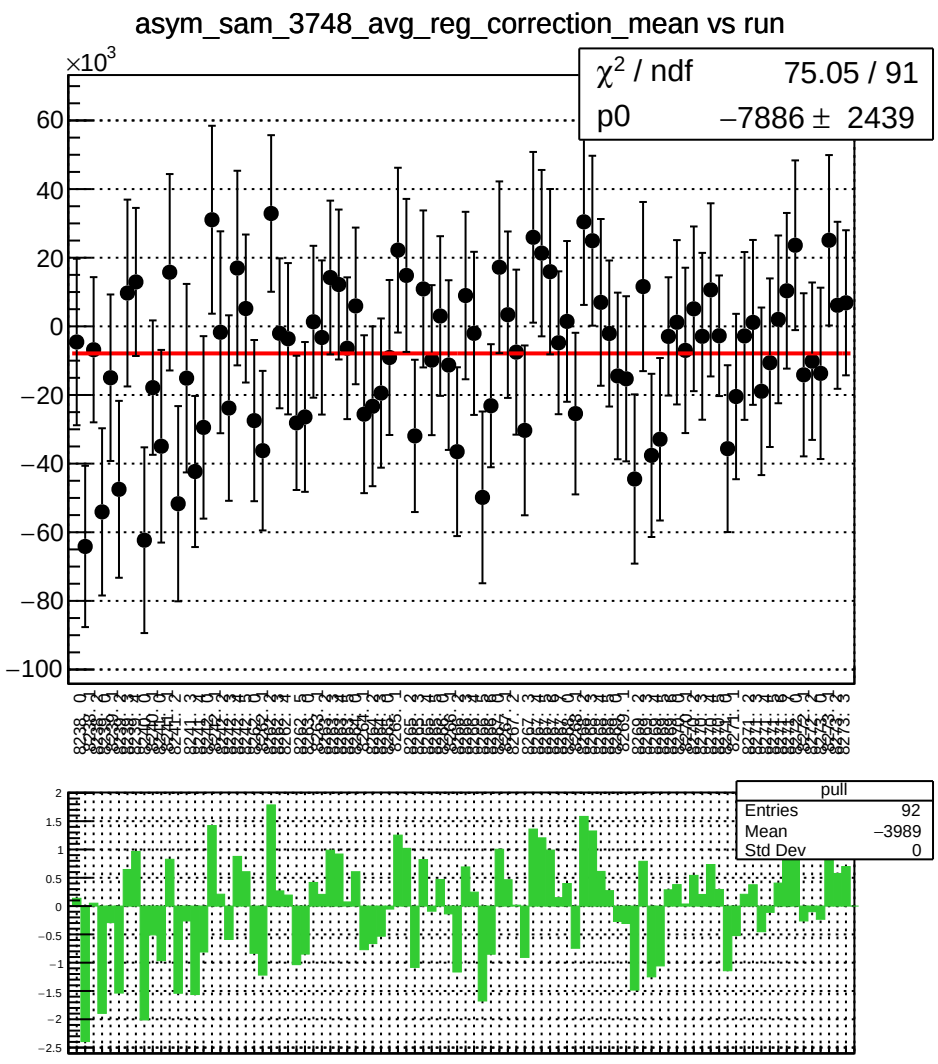

pull1D
Entries 92
Mean 0.009943
Std Dev 0.9902

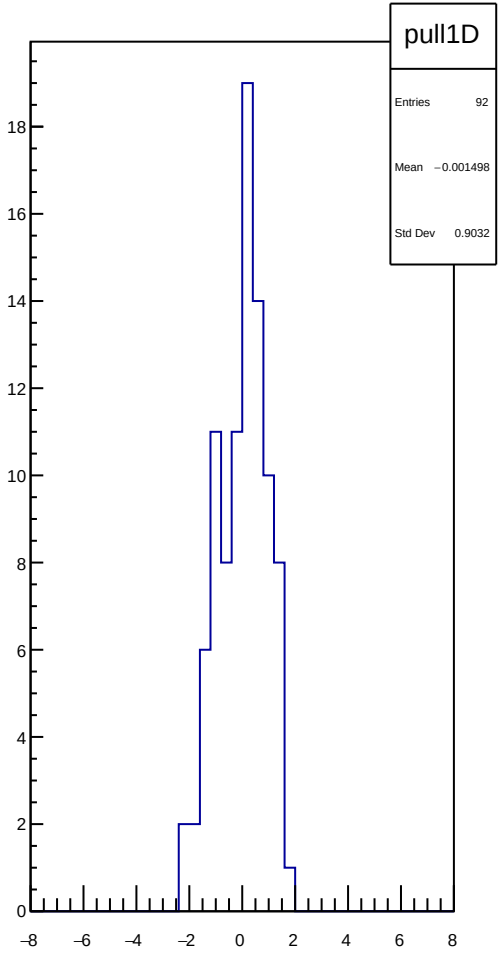

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.269e+05 / 91
p0 4.21e−11 ± 4.551e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

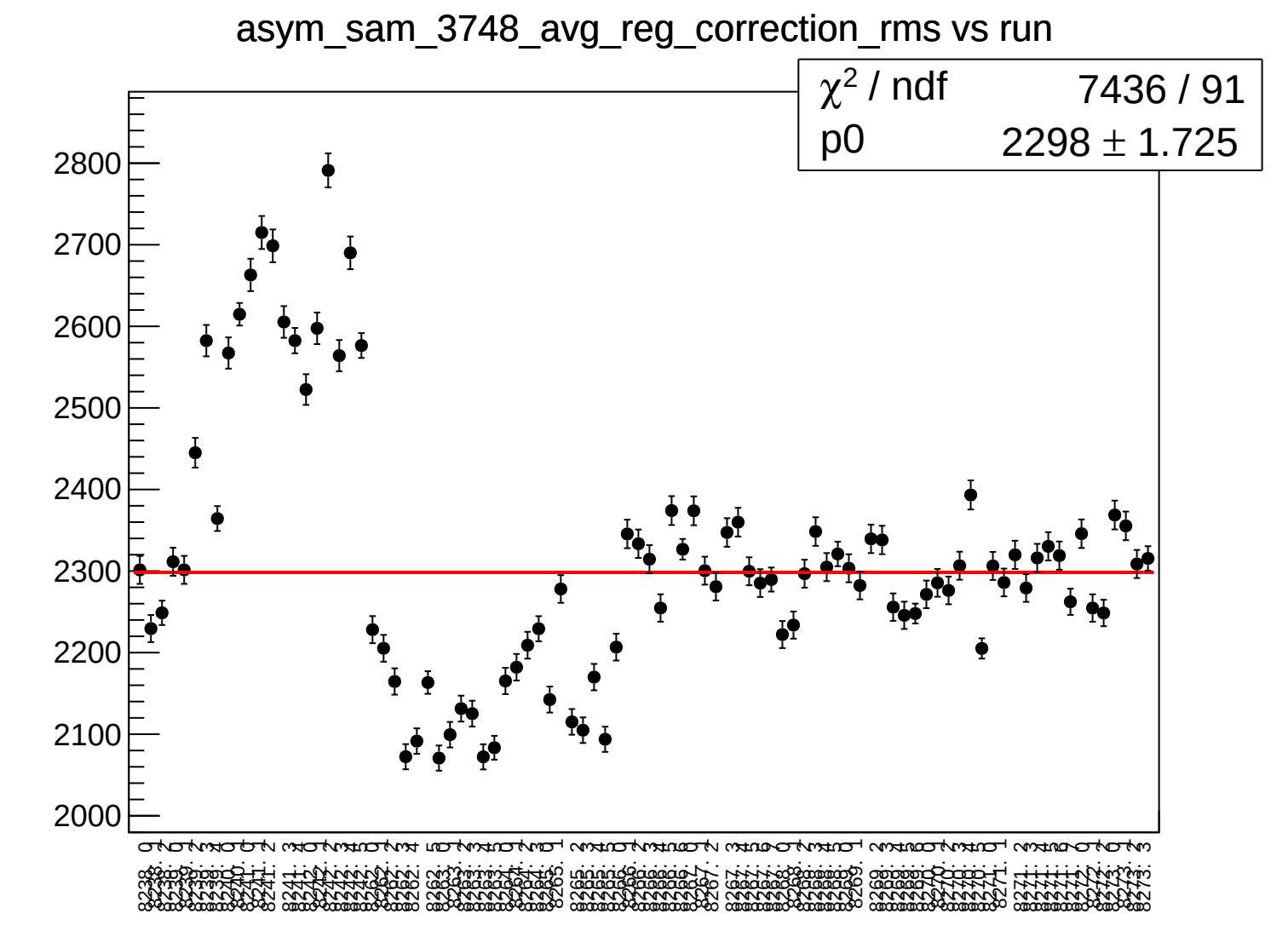

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 75.91 / 91
p0 69.9 ± 165.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −150
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

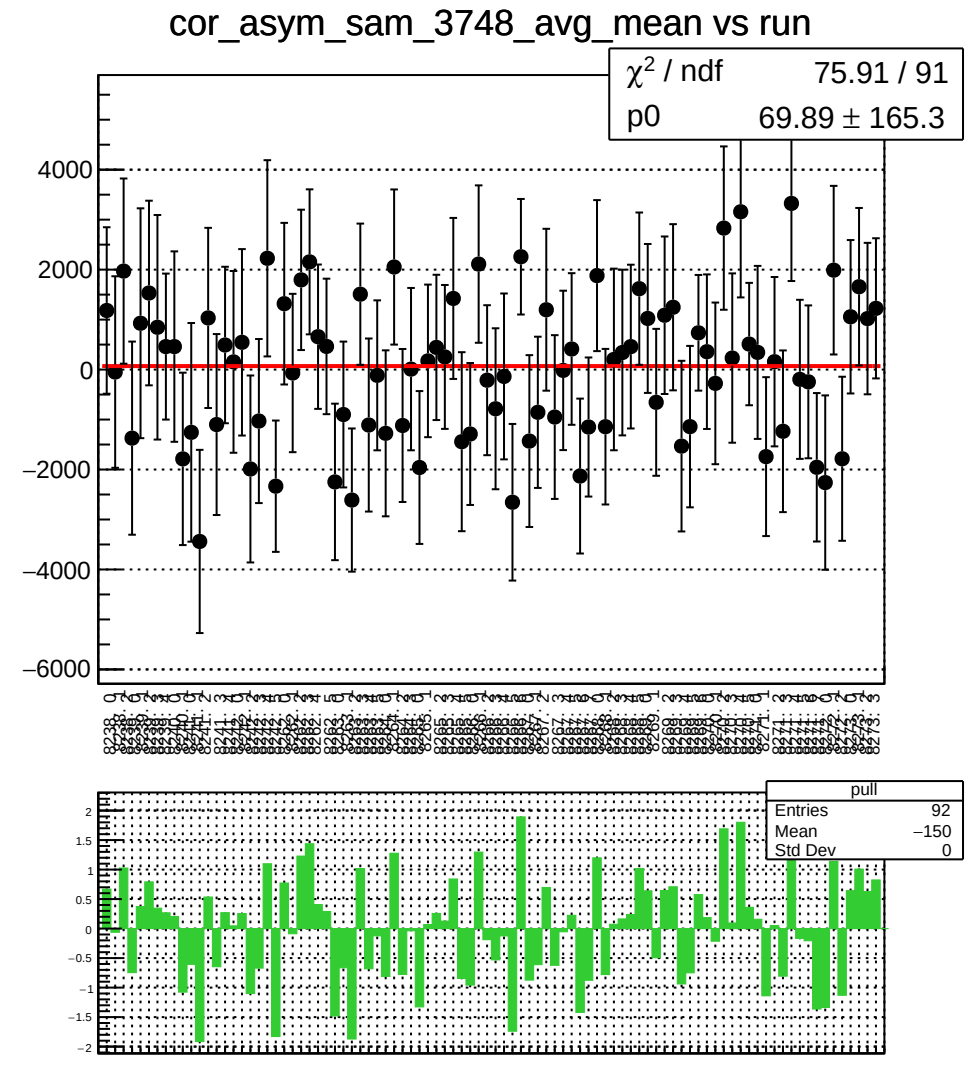

pull1D
Entries 92
Mean −0.01113
Std Dev 0.9083
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

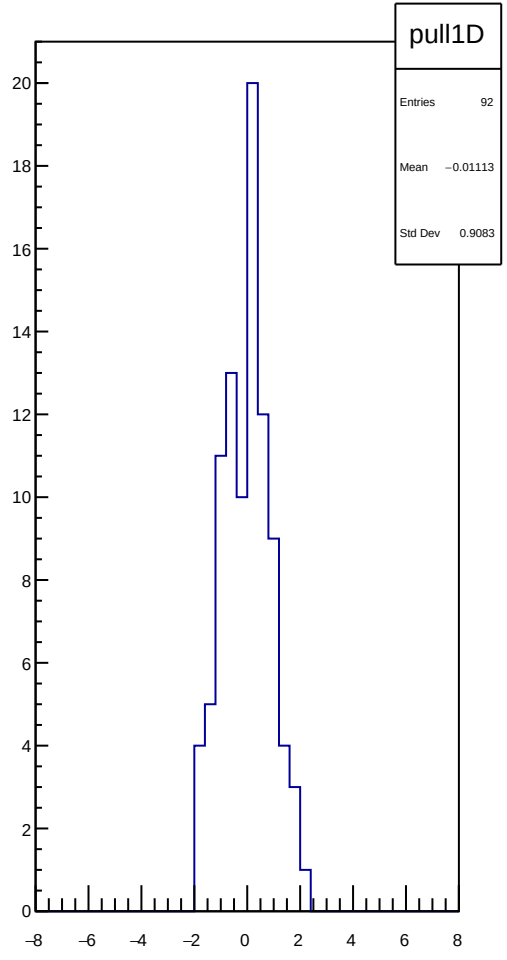

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 1.89e+04 / 91
p0 155.2 ± 0.1169
240
220
200
180
160
140

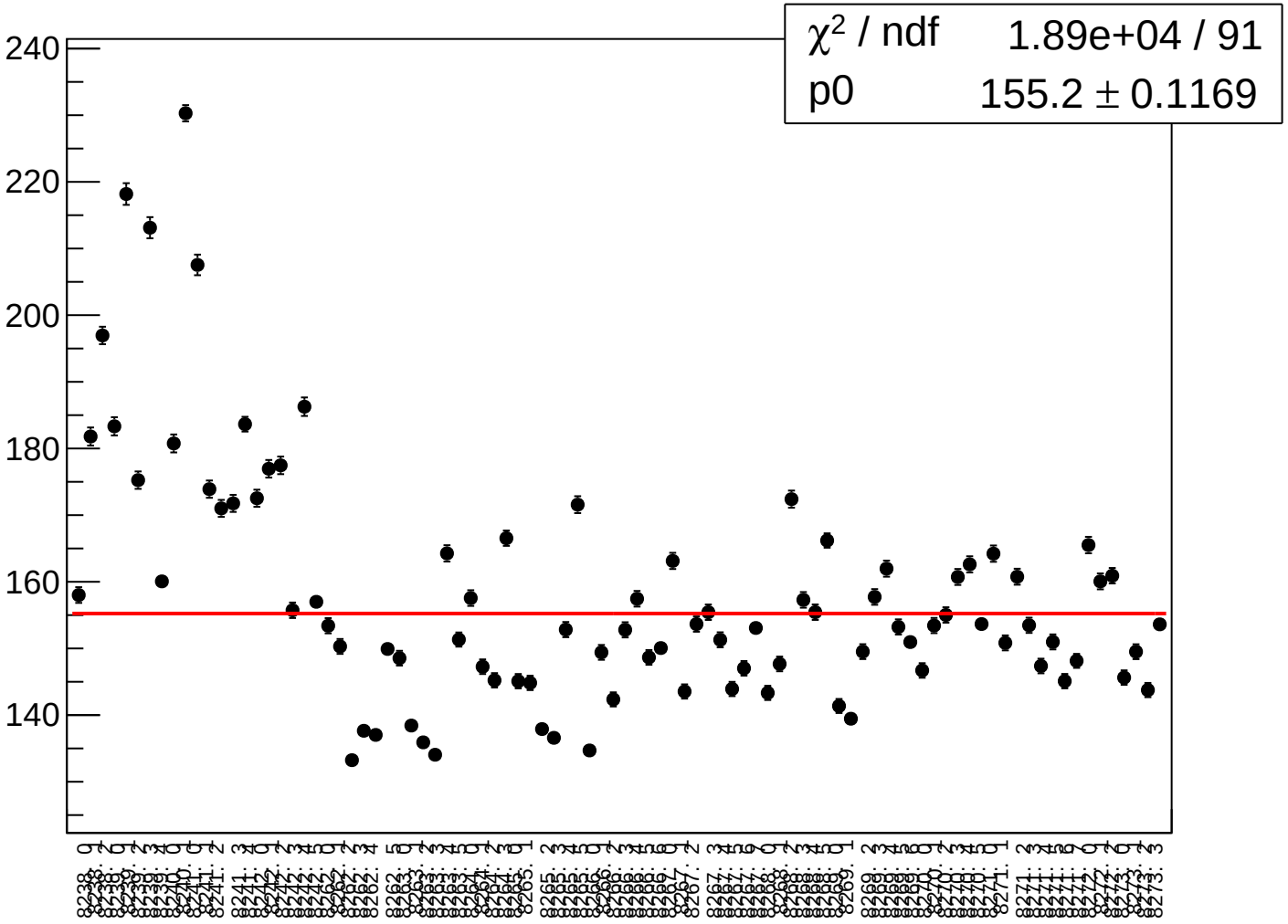

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 75.05 / 91
p0 −7886 ± 2439
×10³
pull
Entries 92
Mean −3989
Std Dev 0

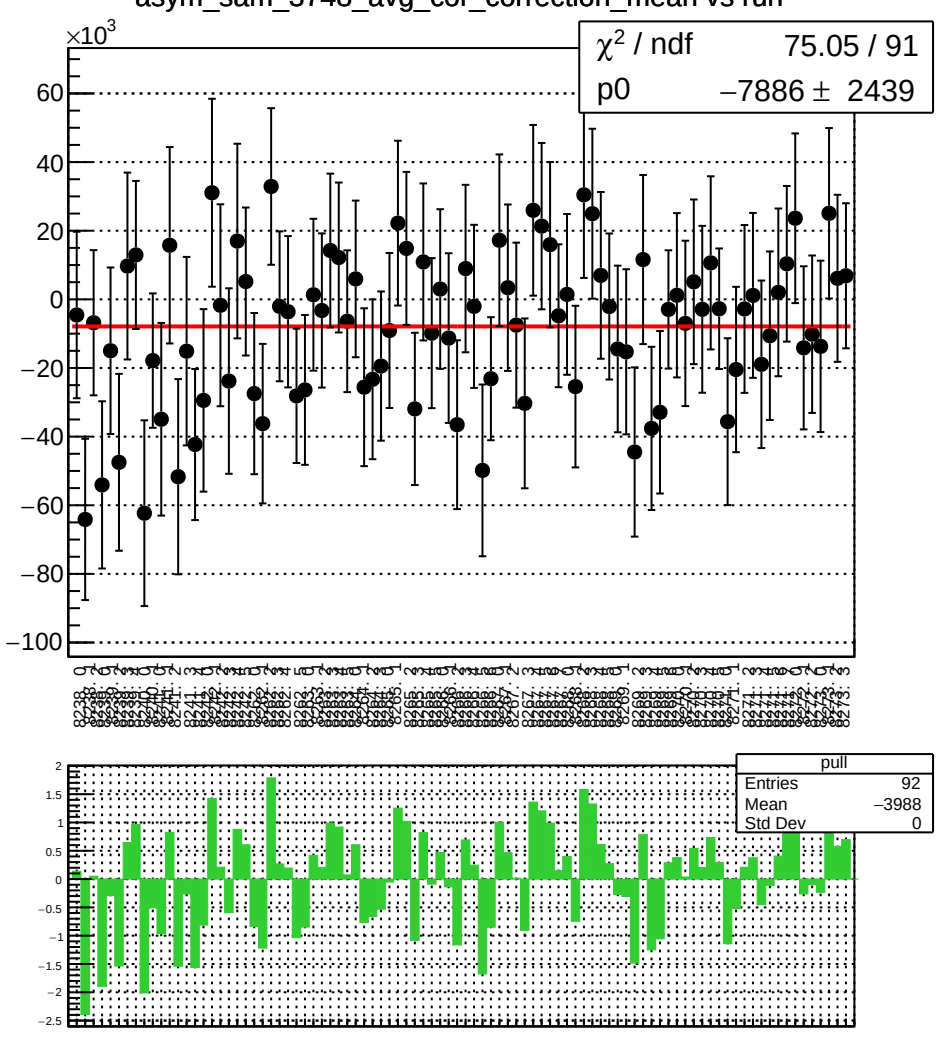

pull1D
Entries 92
Mean −0.001498
Std Dev 0.9032

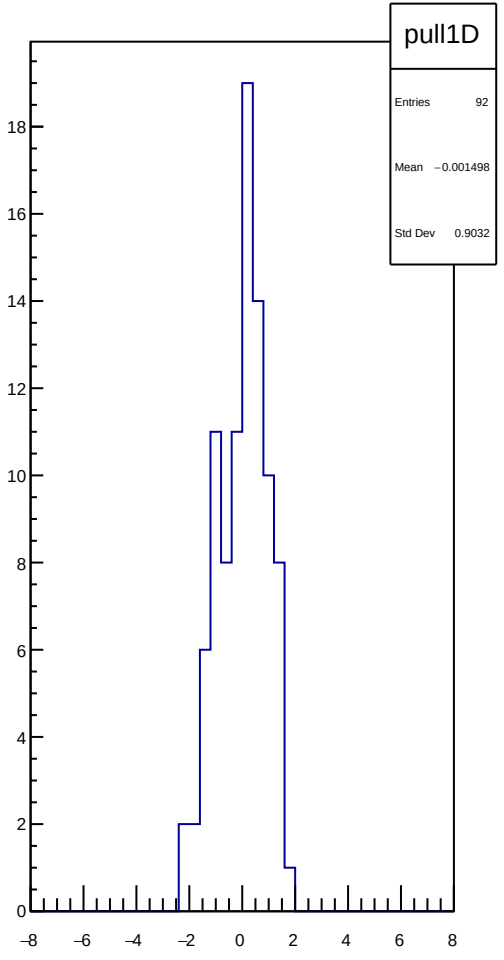

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 7436 / 91
p0 2298 ± 1.725
2800
2700
2600
2500
2400
2300
2200
2100
2000

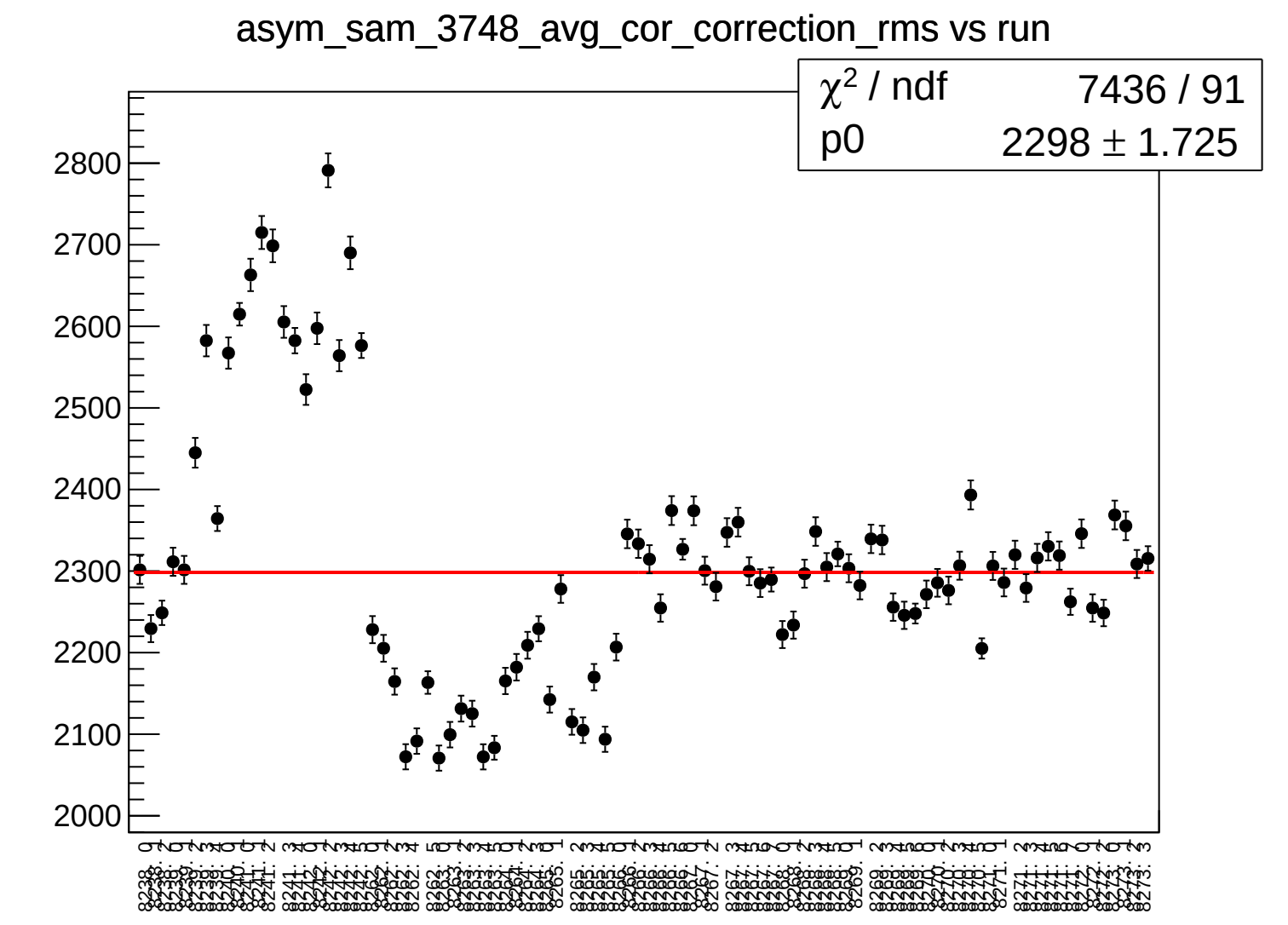

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 75.91 / 91
p0 69.89 ± 165.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −150
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

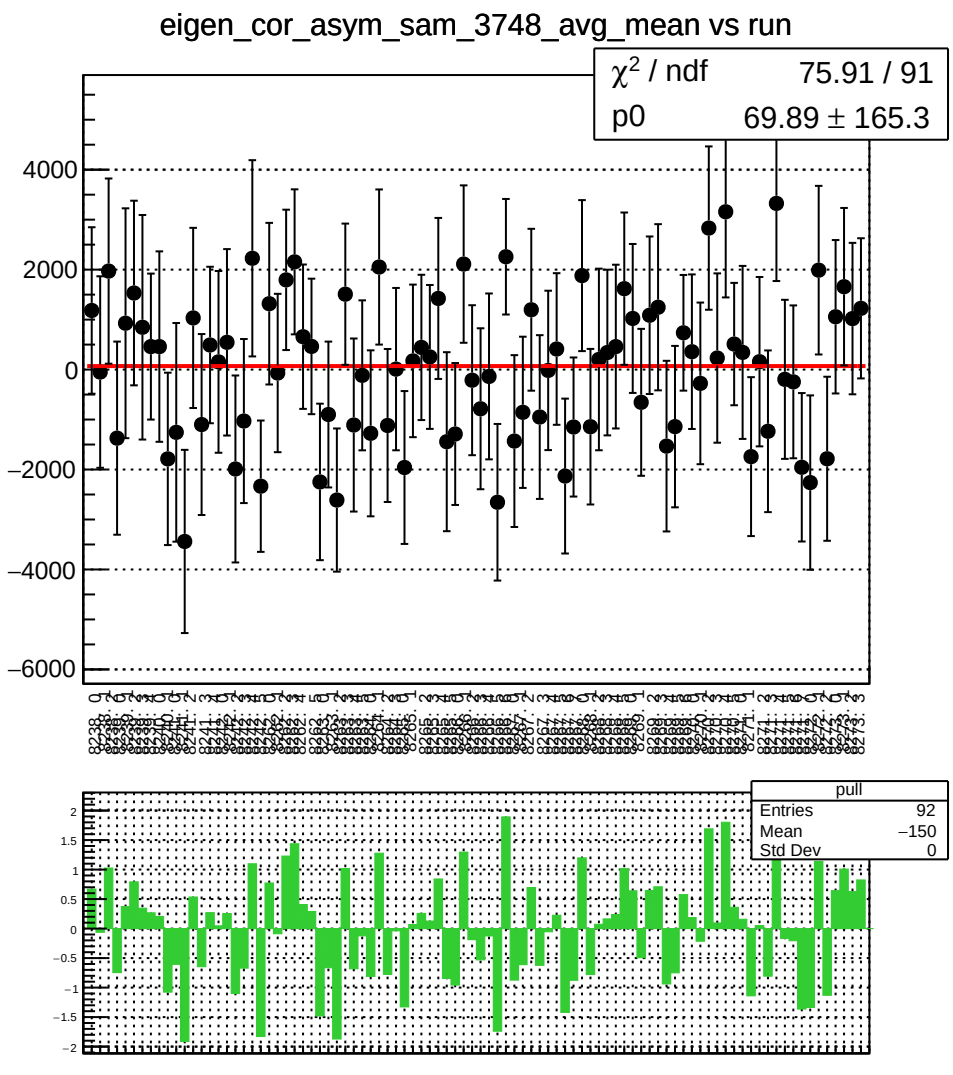

pull1D
Entries 92
Mean −0.01113
Std Dev 0.9083
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

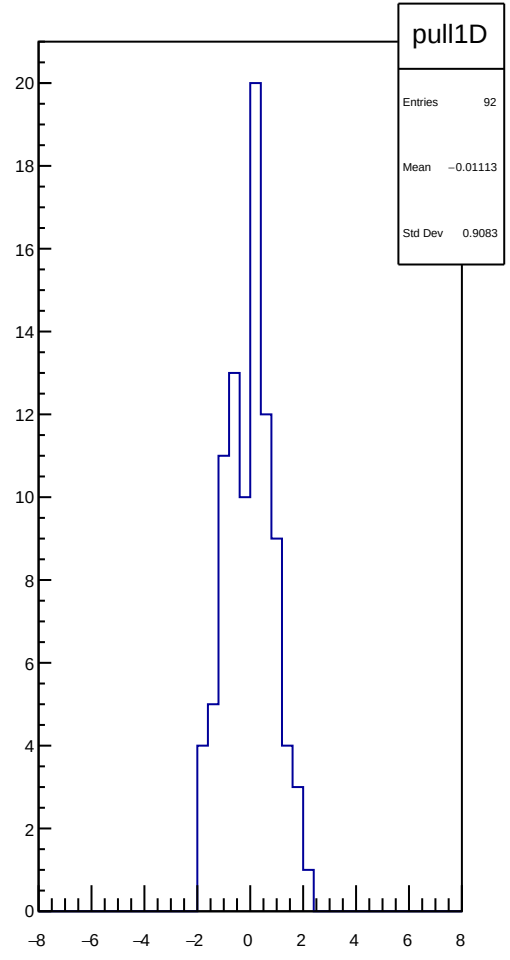

cor_asym_sam_3748_avg_rms vs run
$\chi^2$ / ndf 1.89e+04 / 91
p0 155.2 ± 0.1169
240
220
200
180
160
140

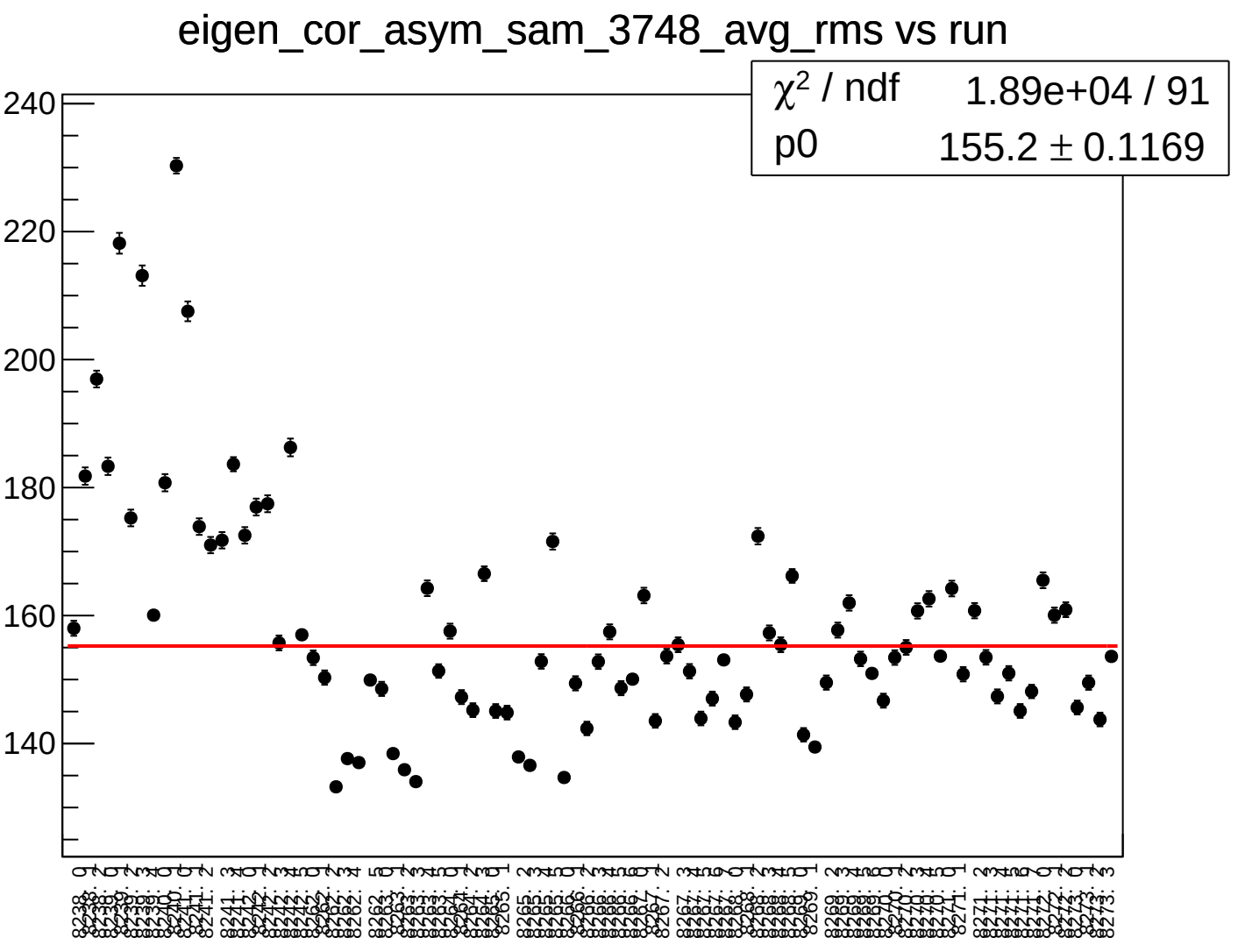

asym_sam_3748_avg_cor_correction_mean vs run
×10^3
χ² / ndf 75.05 / 91
p0 −7886 ± 2439
pull
Entries 92
Mean −3988
Std Dev 0

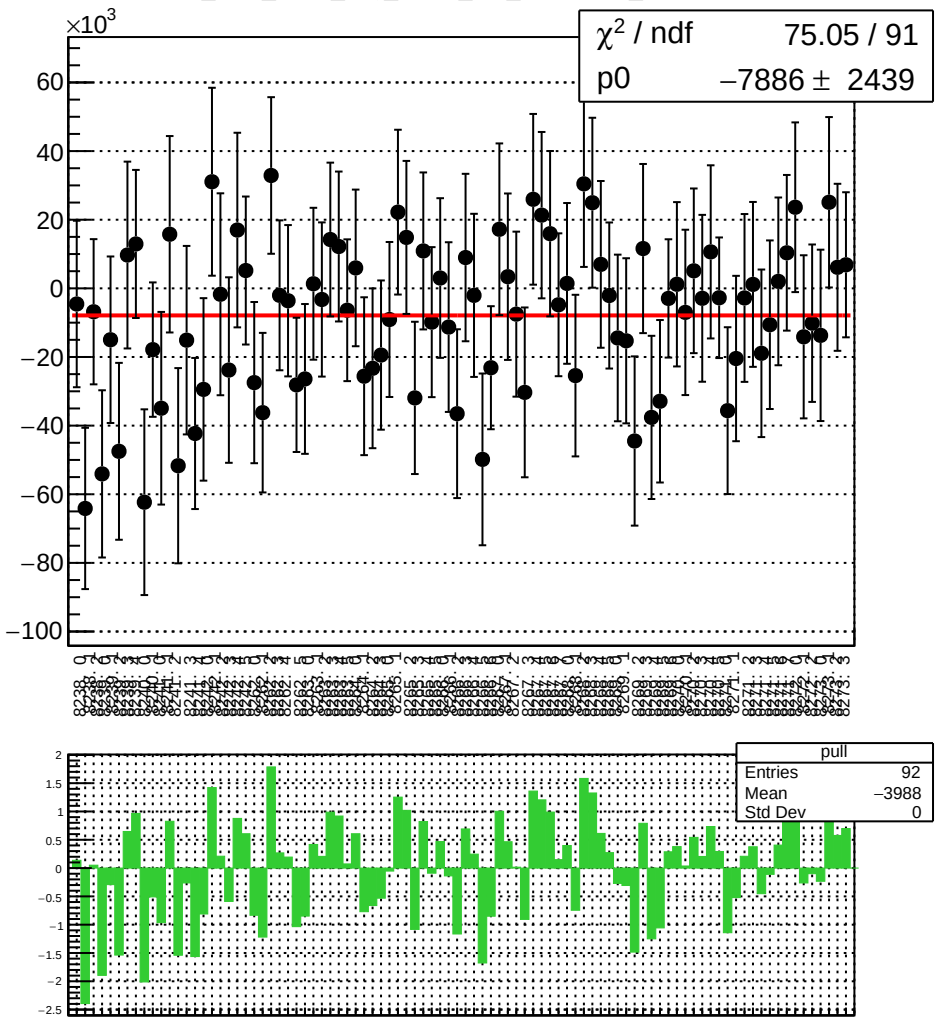

pull1D
Entries 92
Mean −0.001498
Std Dev 0.9032

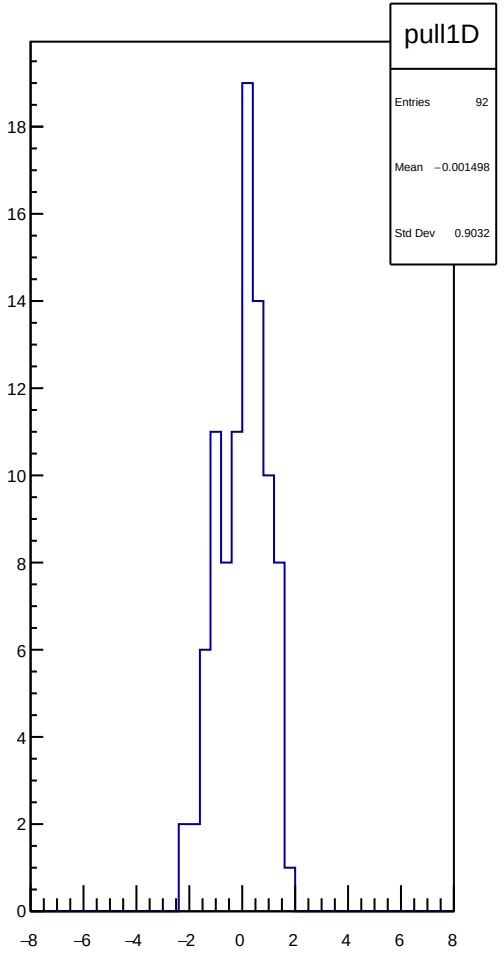

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 7436 / 91
p0 2298 ± 1.725
2800
2700
2600
2500
2400
2300
2200
2100
2000

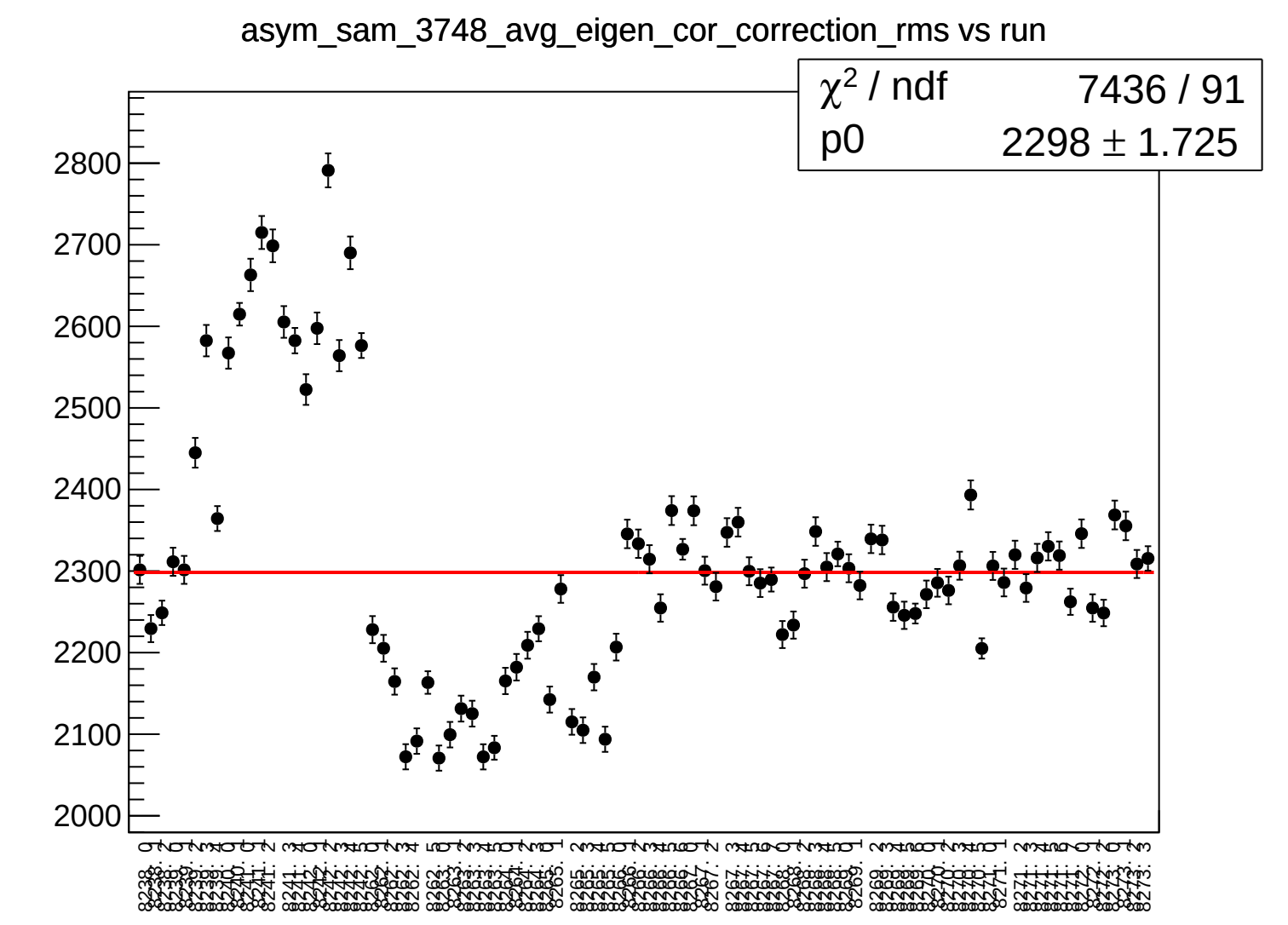

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 75.91 / 91
p0 69.89 ± 165.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −150
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

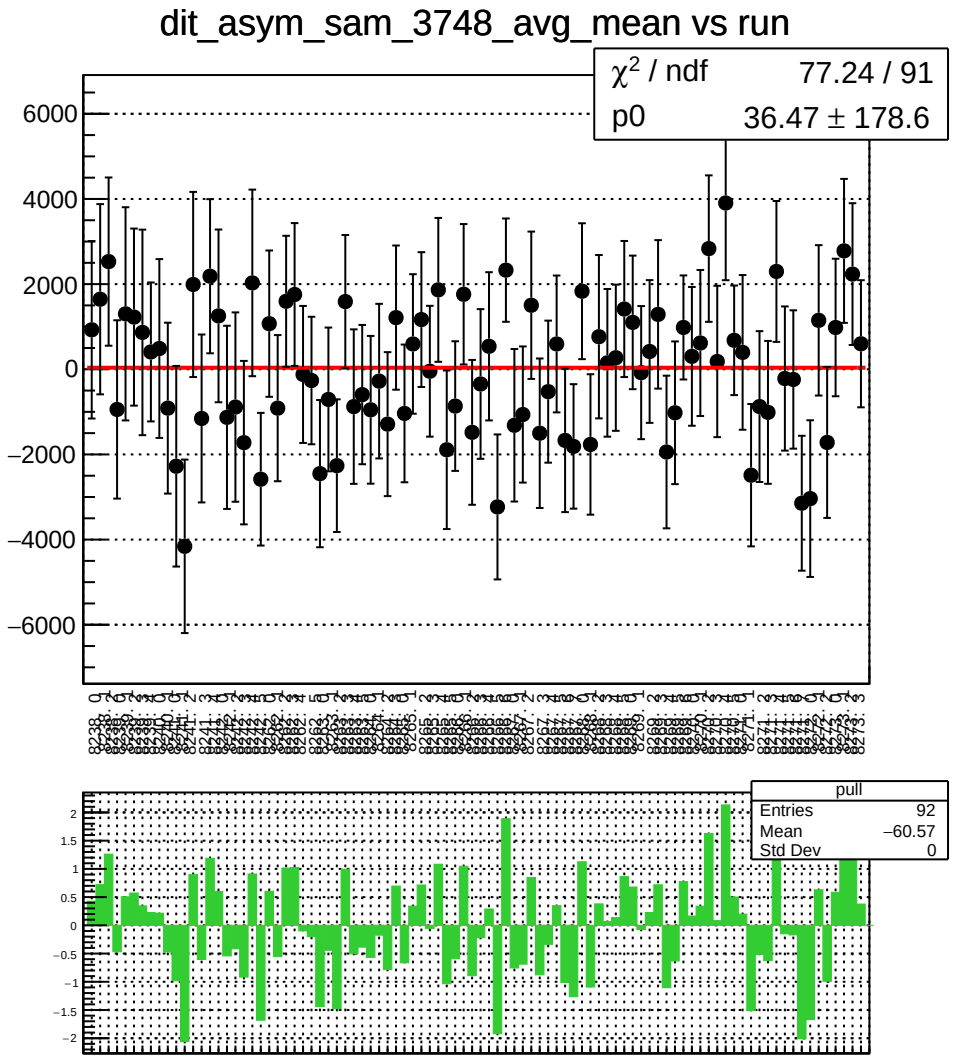

pull1D
Entries 92
Mean −0.01113
Std Dev 0.9083
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

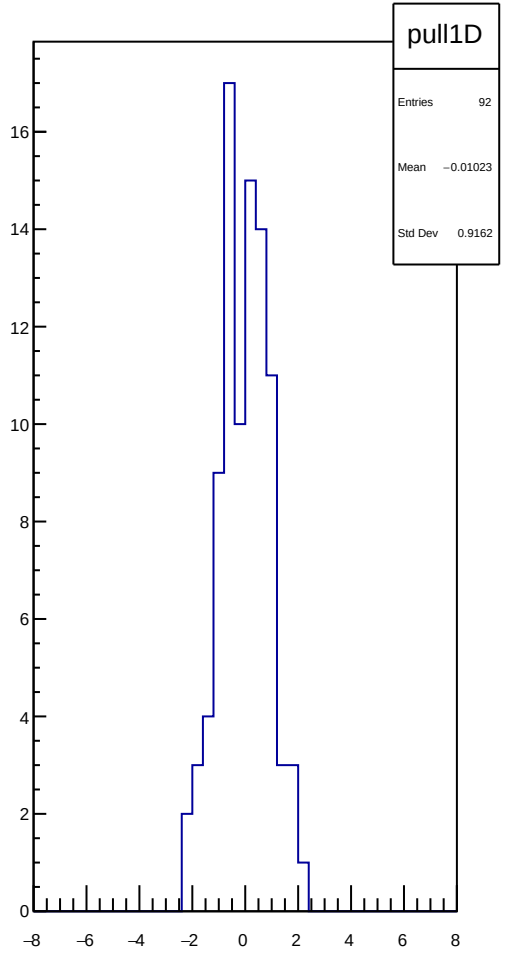

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.89e+04 / 91
p0 155.2 ± 0.1169
240
220
200
180
160
140

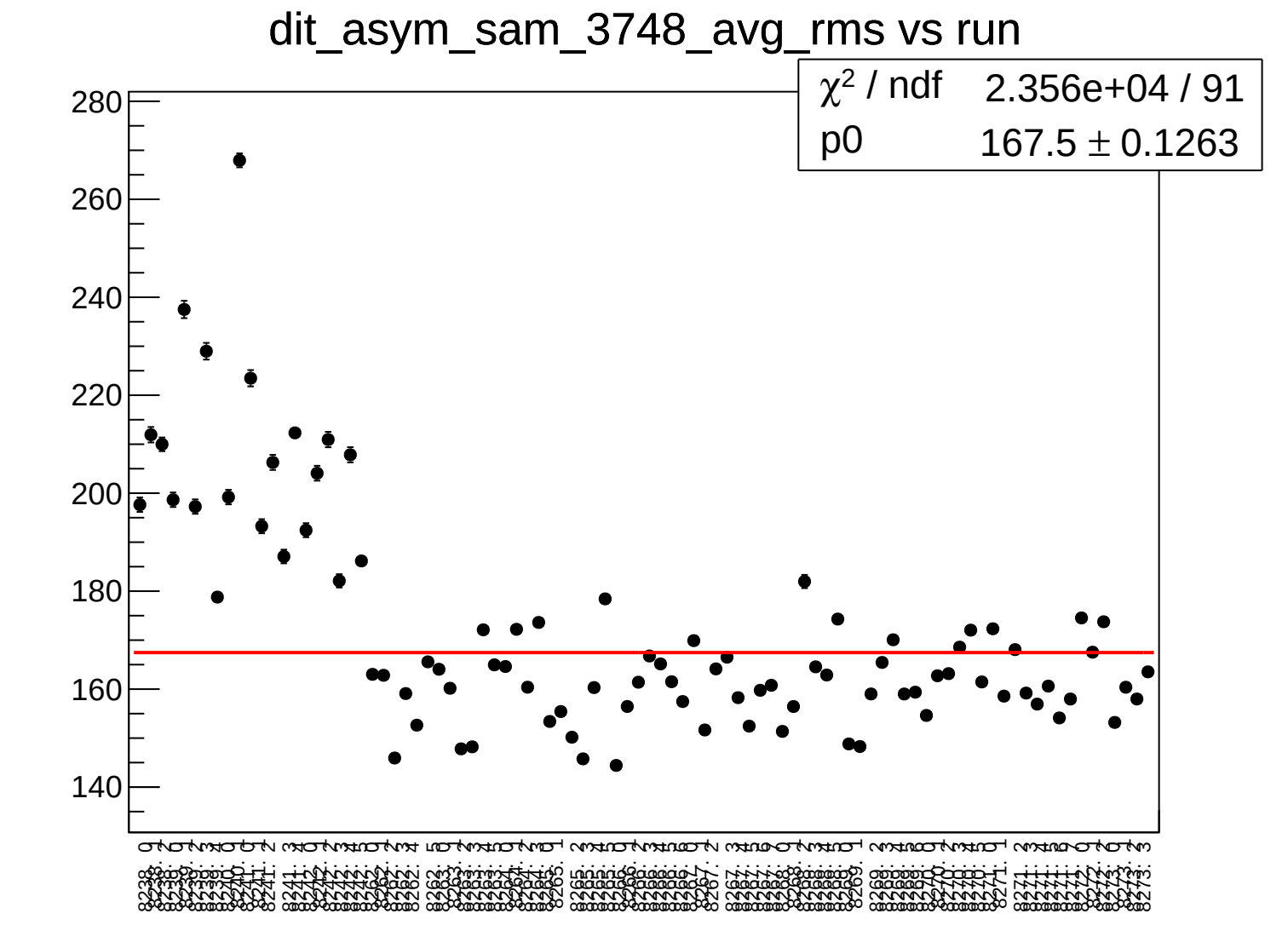

asym_sam_3748_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 75.05 / 91
p0 −7886 ± 2439
pull
Entries 92
Mean −3988
Std Dev 0

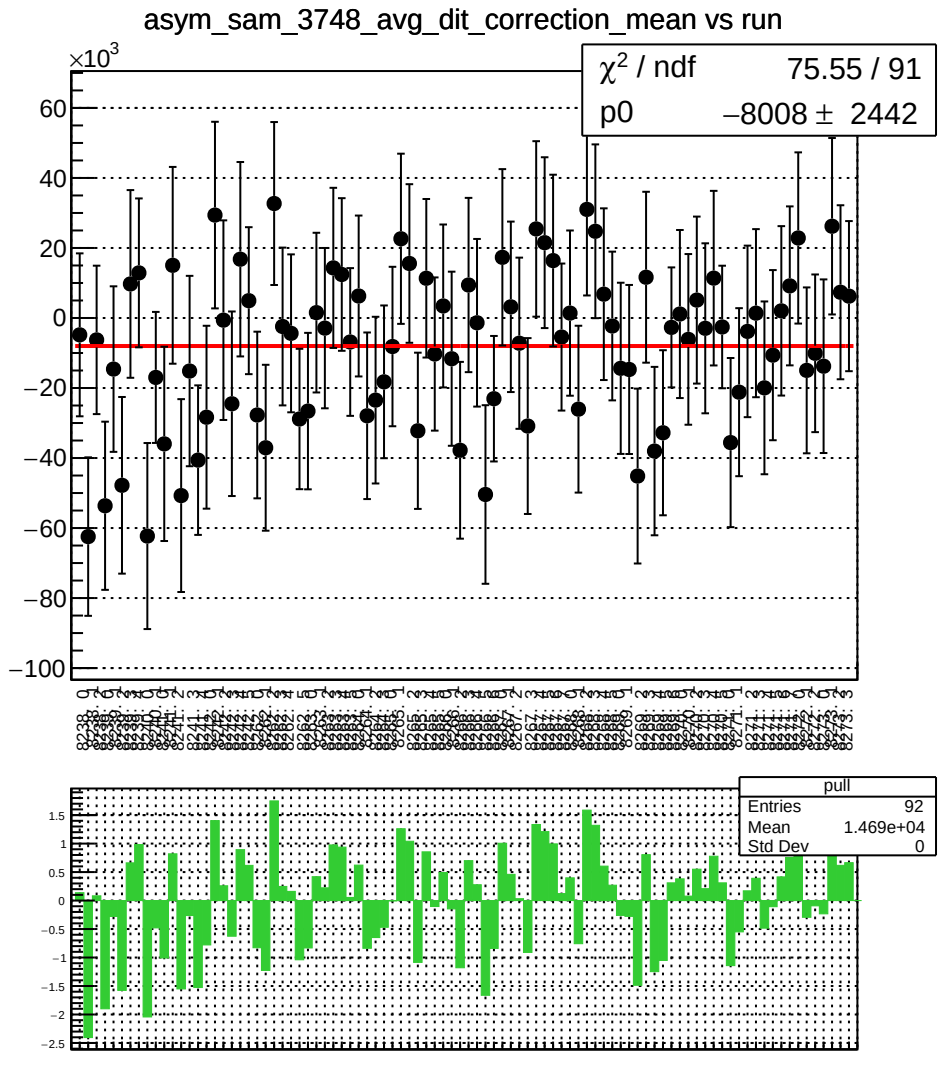

pull1D
Entries 92
Mean −0.001498
Std Dev 0.9032

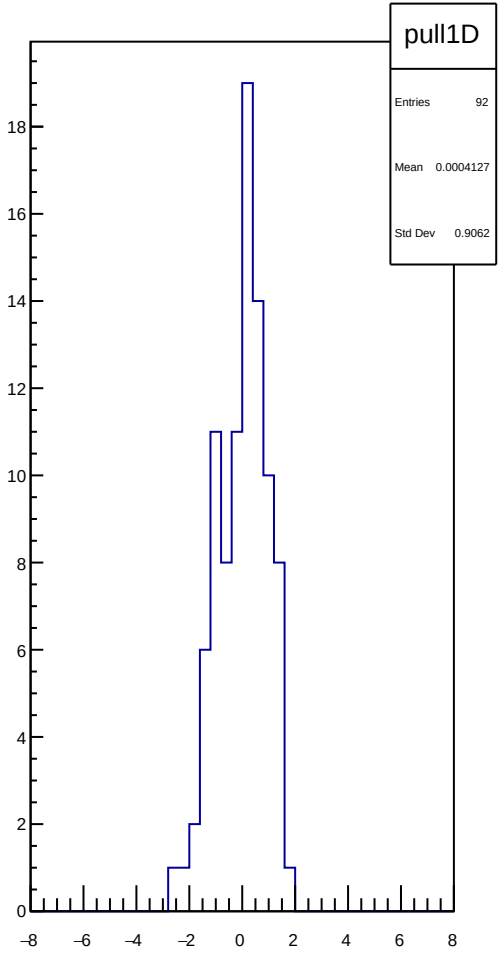

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 7436 / 91
p0 2298 ± 1.725
2800
2700
2600
2500
2400
2300
2200
2100
2000

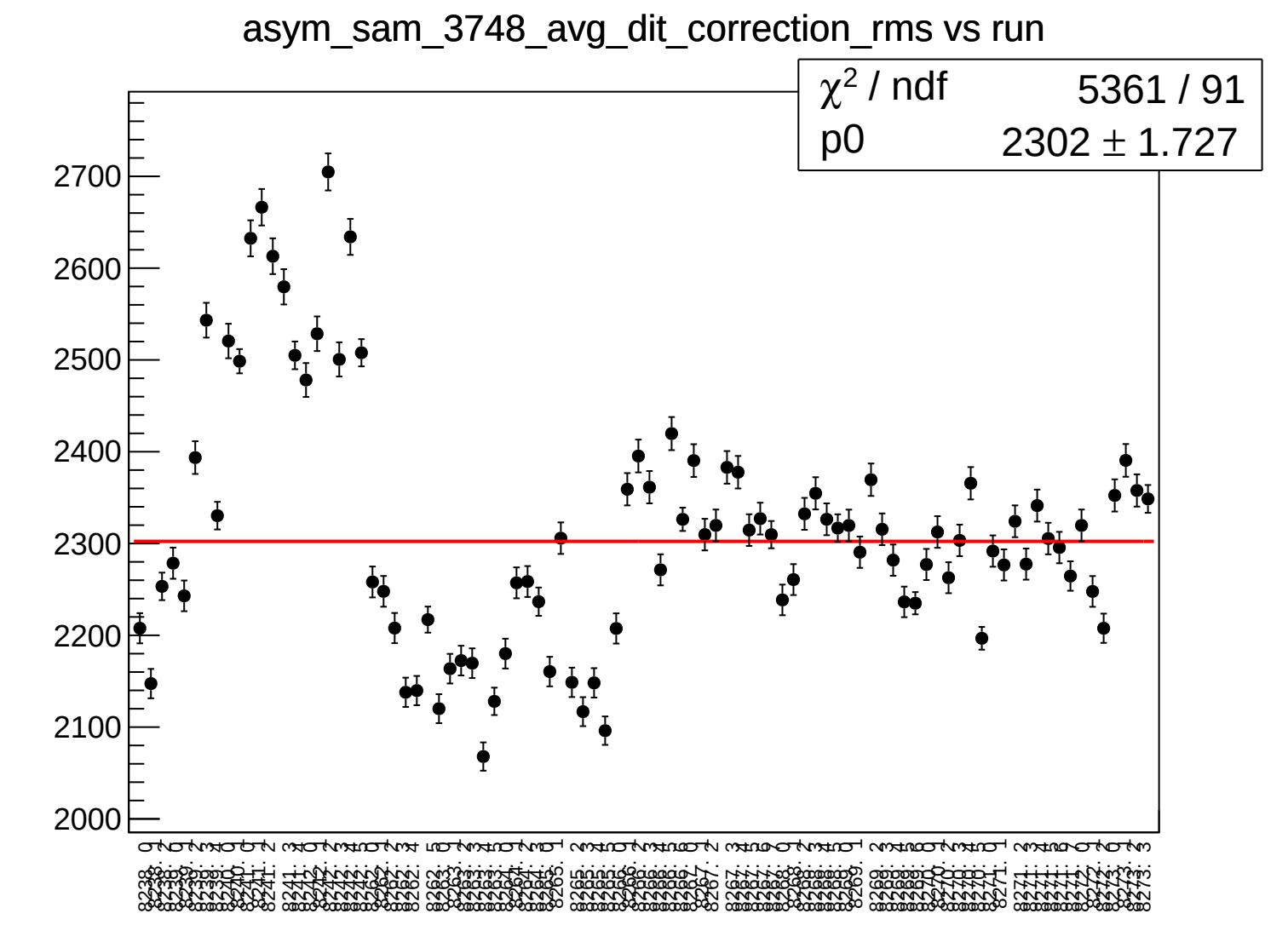

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 77.24 / 91
p0 36.47 ± 178.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −60.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

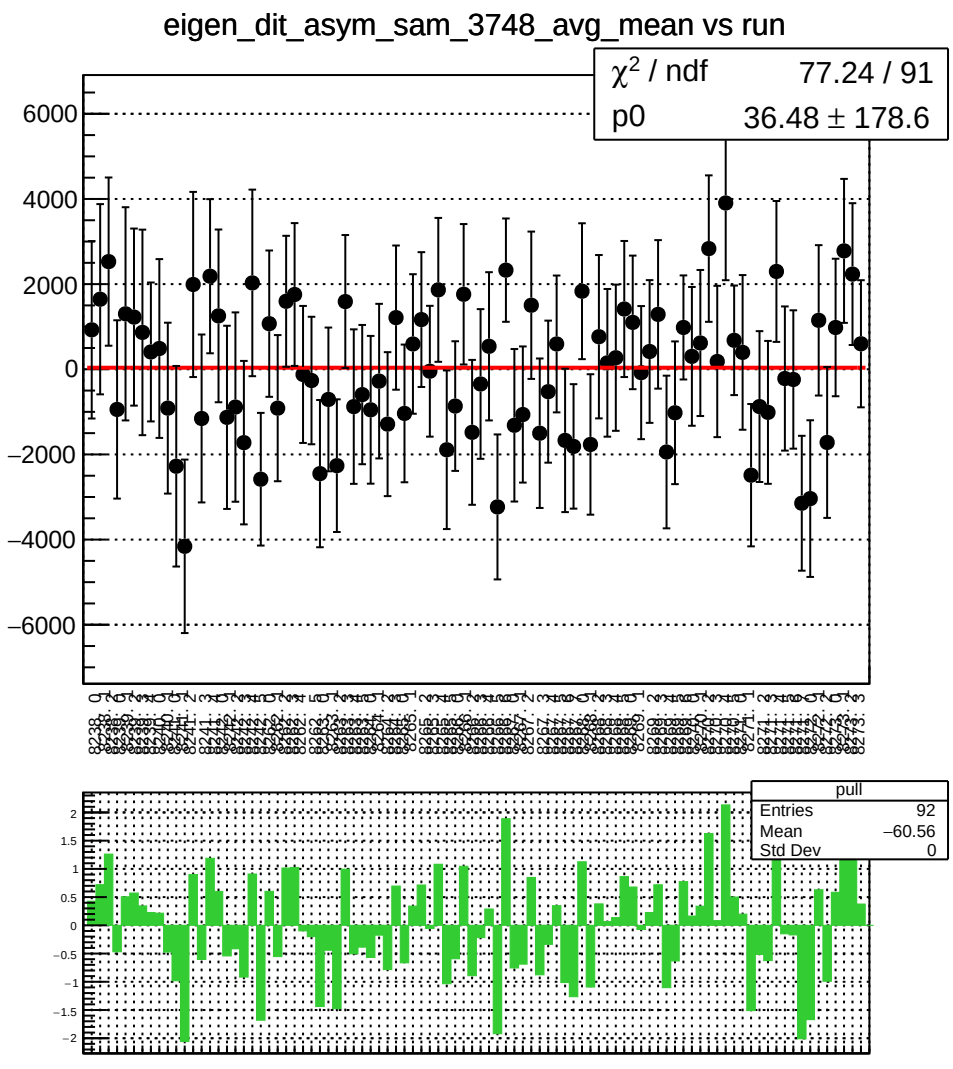

pull1D
Entries 92
Mean −0.01023
Std Dev 0.9162
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

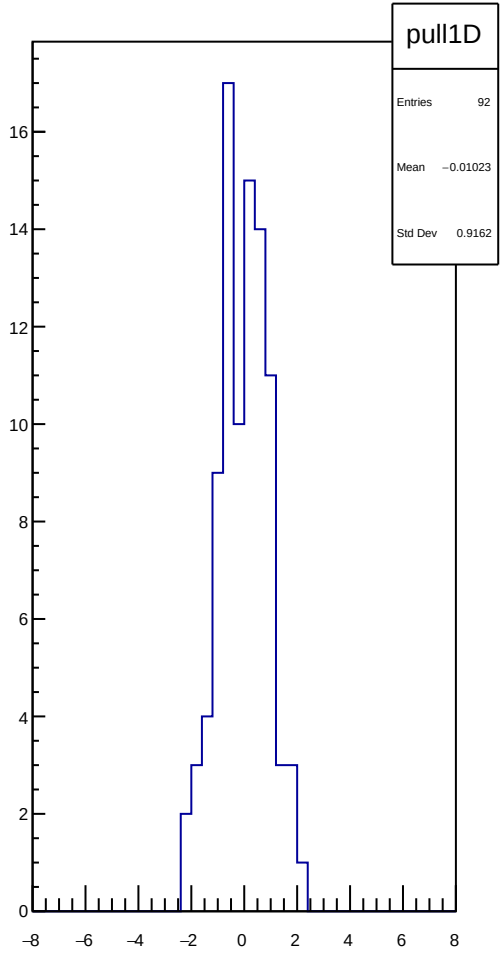

dit_asym_sam_3748_avg_rms vs run
$\chi^2$ / ndf 2.356e+04 / 91
p0 167.5 ± 0.1263
280
260
240
220
200
180
160
140

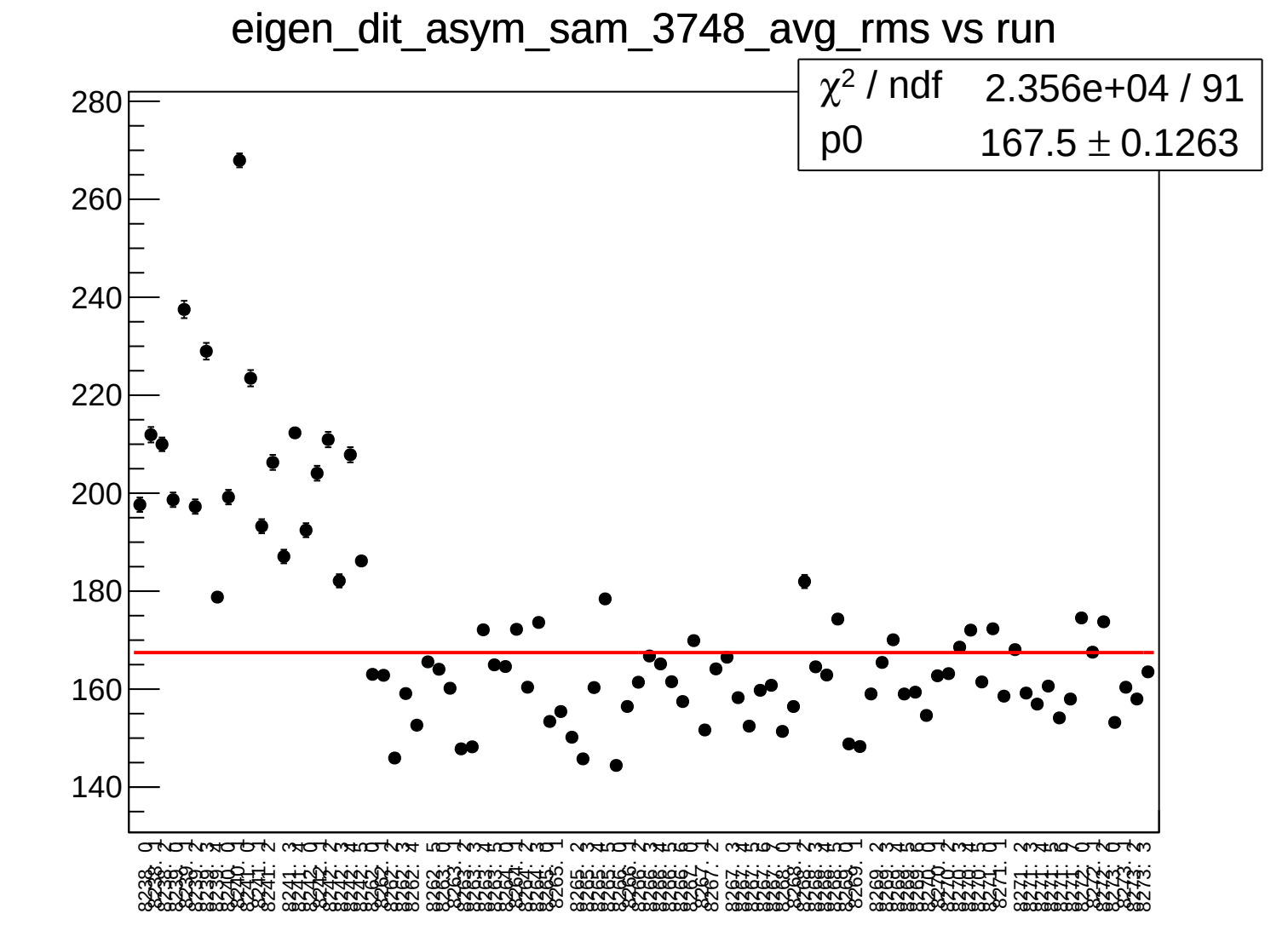

asym_sam_3748_avg_dit_correction_mean vs run
×10^3
χ² / ndf 75.55 / 91
p0 −8008 ± 2442
pull
Entries 92
Mean 1.469e+04
Std Dev 0

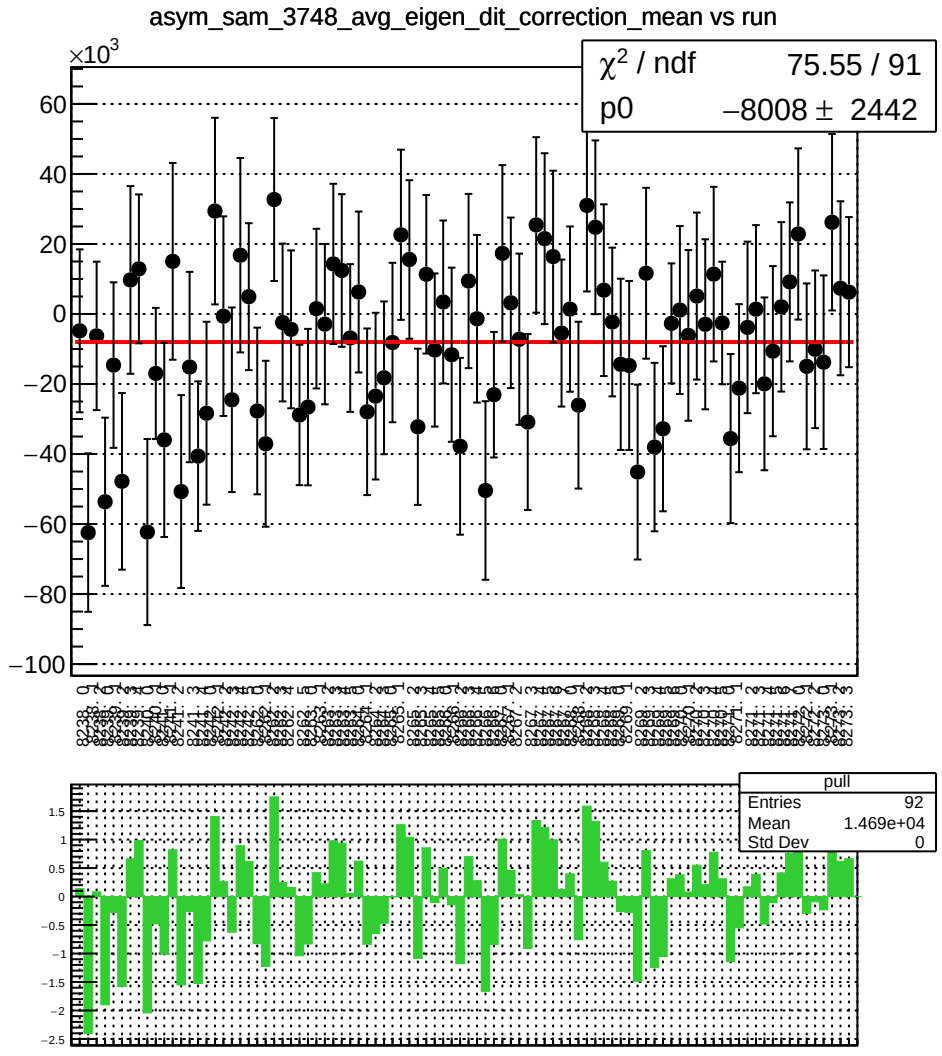

pull1D
Entries 92
Mean 0.0004127
Std Dev 0.9062

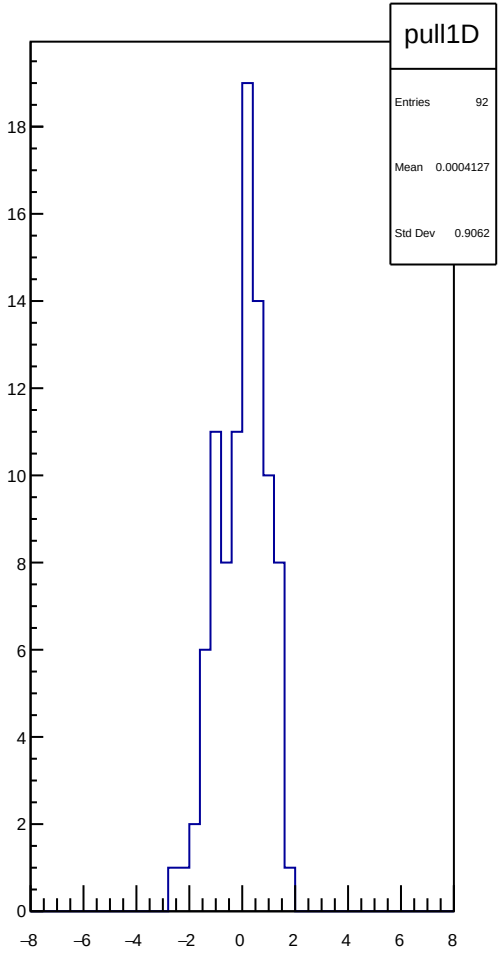

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 5361 / 91
p0 2302 ± 1.727
2700
2600
2500
2400
2300
2200
2100
2000

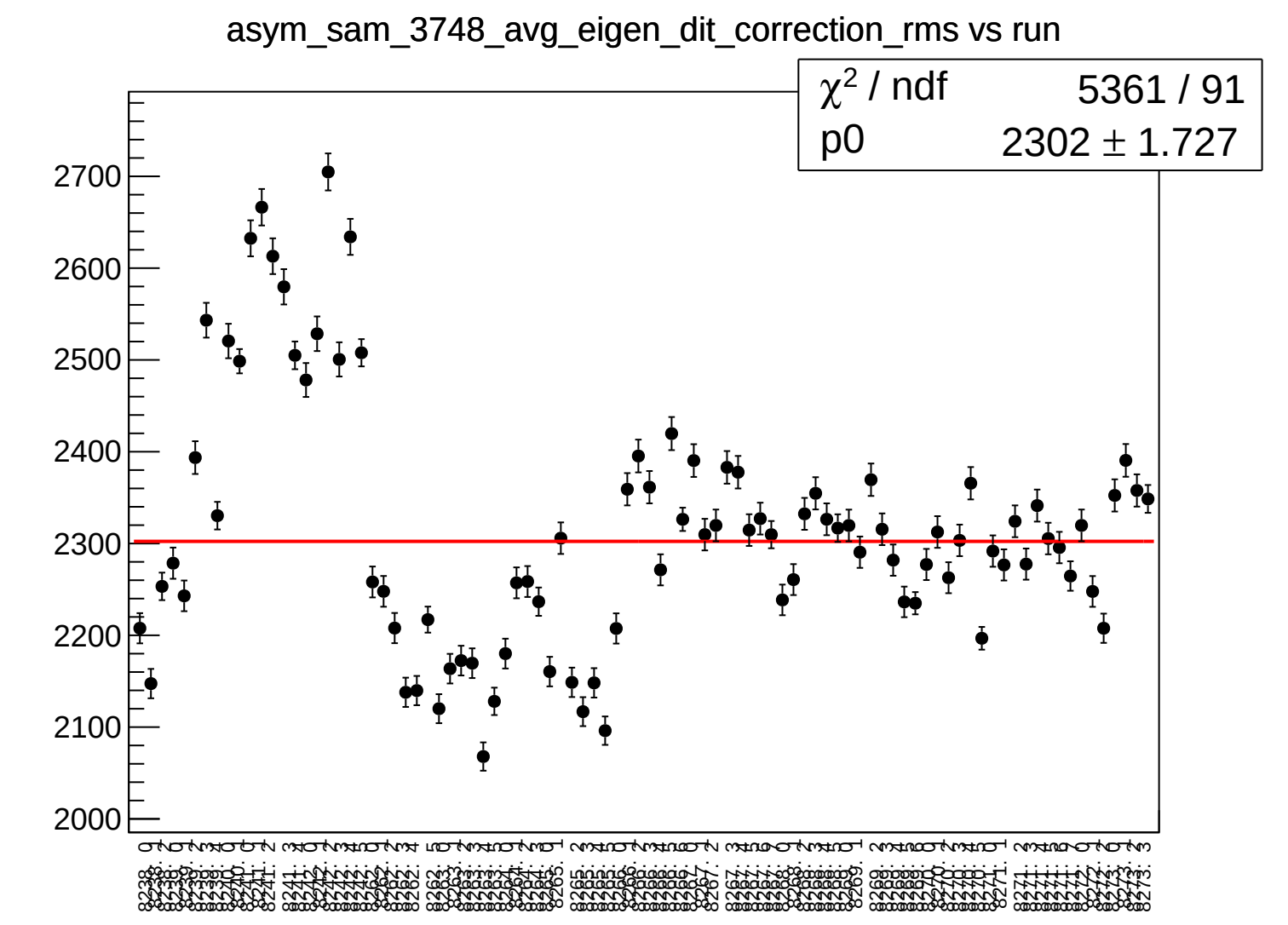

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 77.24 / 91
p0 36.48 ± 178.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −60.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

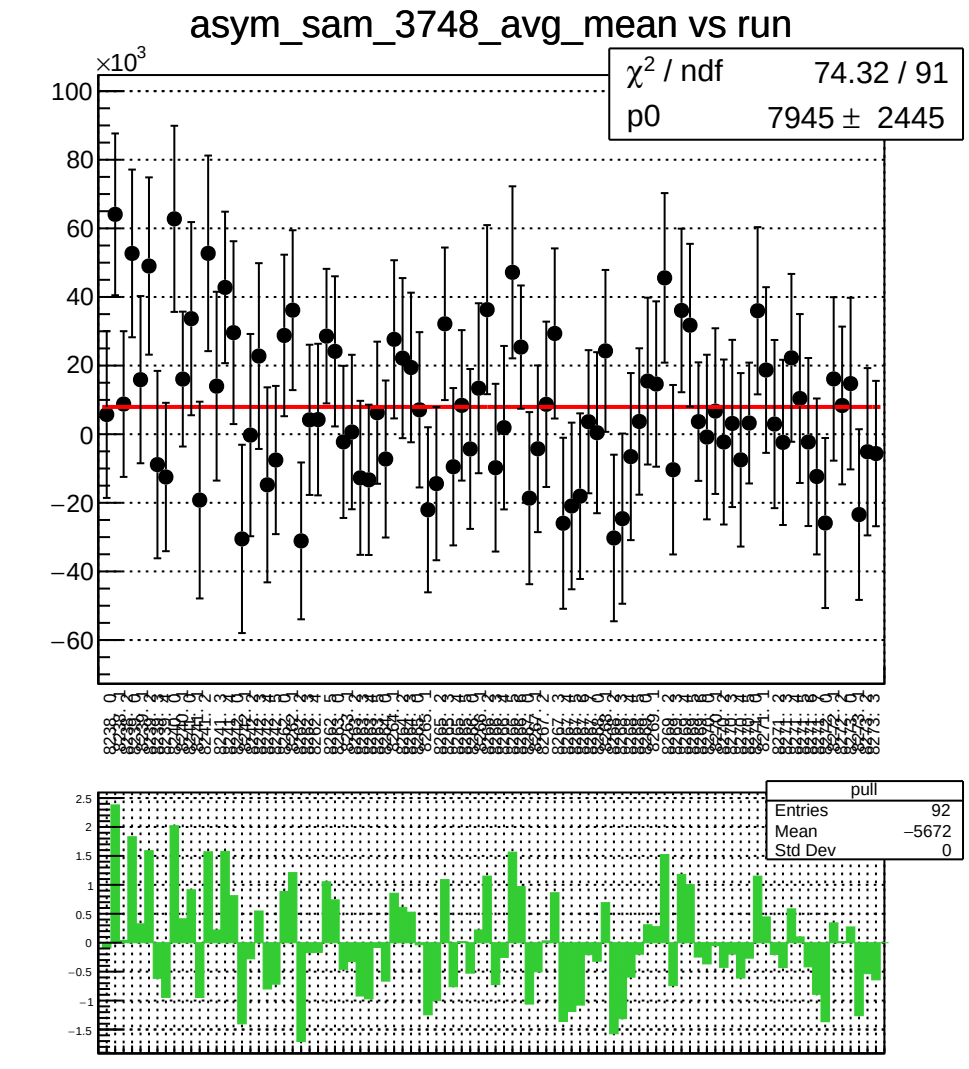

pull1D
Entries 92
Mean −0.01023
Std Dev 0.9162
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

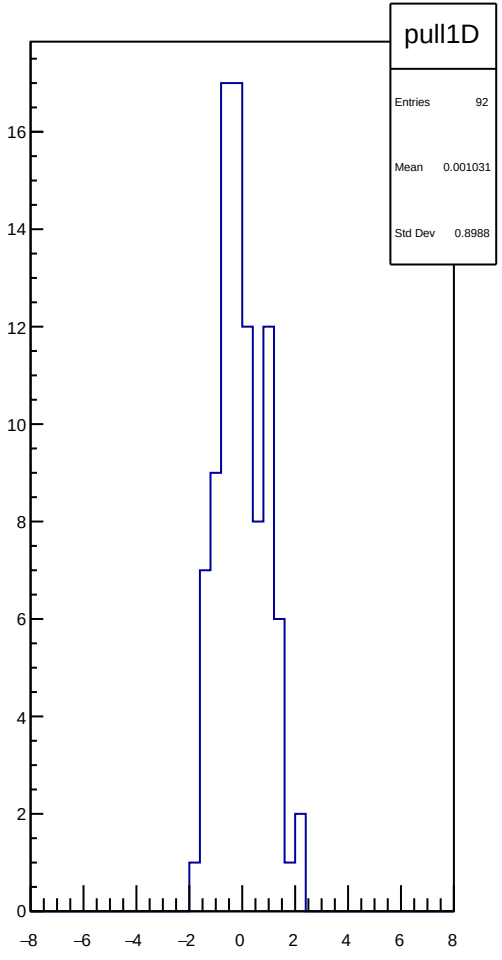

eigen_dit_asym_sam_3748_avg_rms vs run
$\chi^2$ / ndf 2.356e+04 / 91
p0 167.5 ± 0.1263
280
260
240
220
200
180
160
140

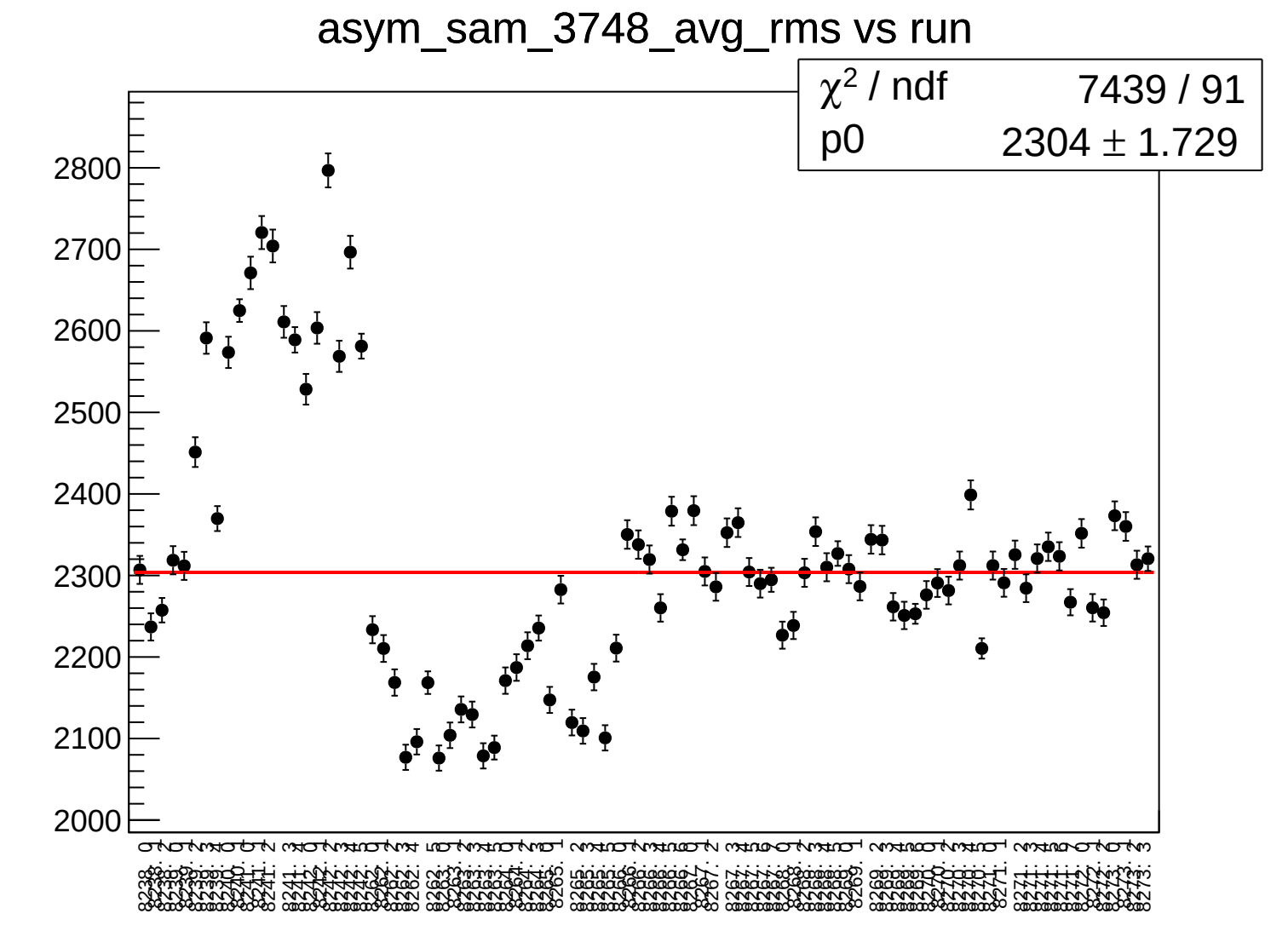

asym_sam_3748_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 75.55 / 91
p0 −8008 ± 2442
pull
Entries 92
Mean 1.469e+04
Std Dev 0

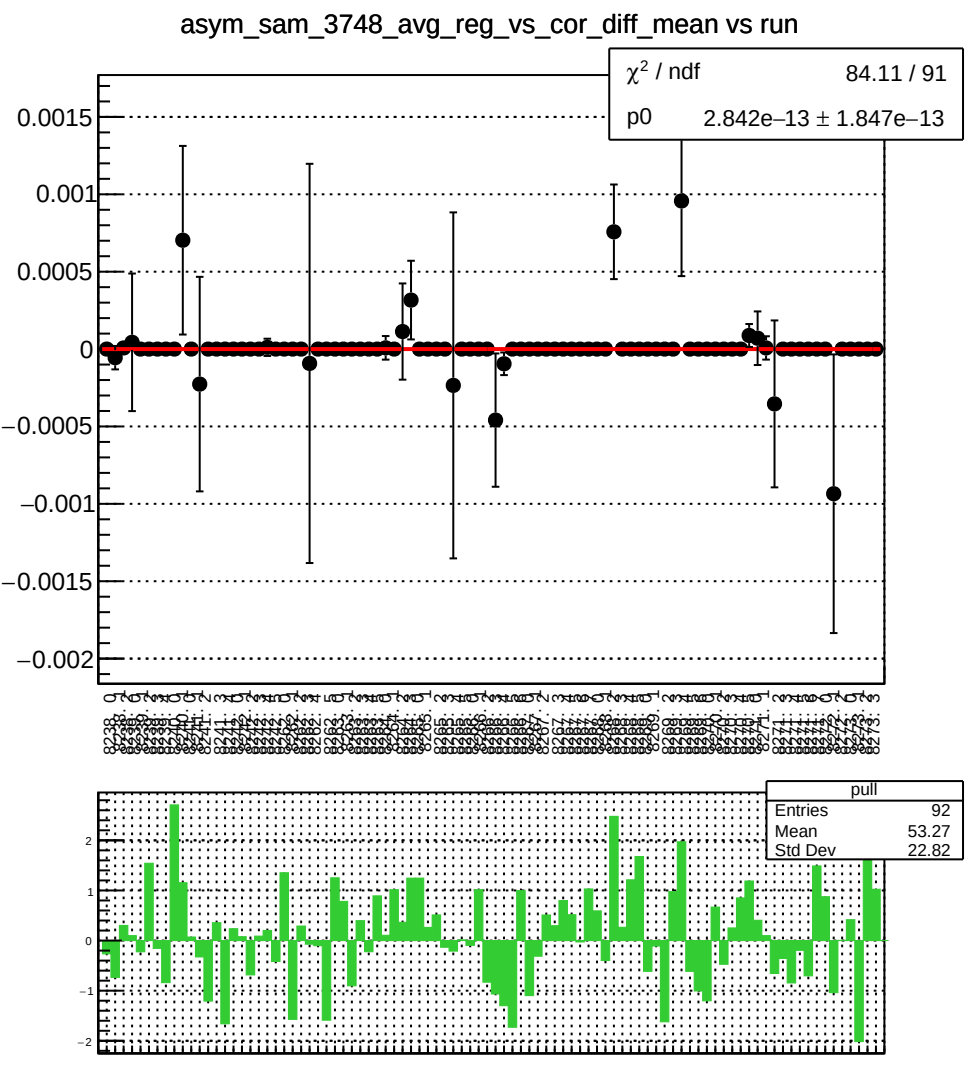

pull1D
Entries 92
Mean 0.0004127
Std Dev 0.9062

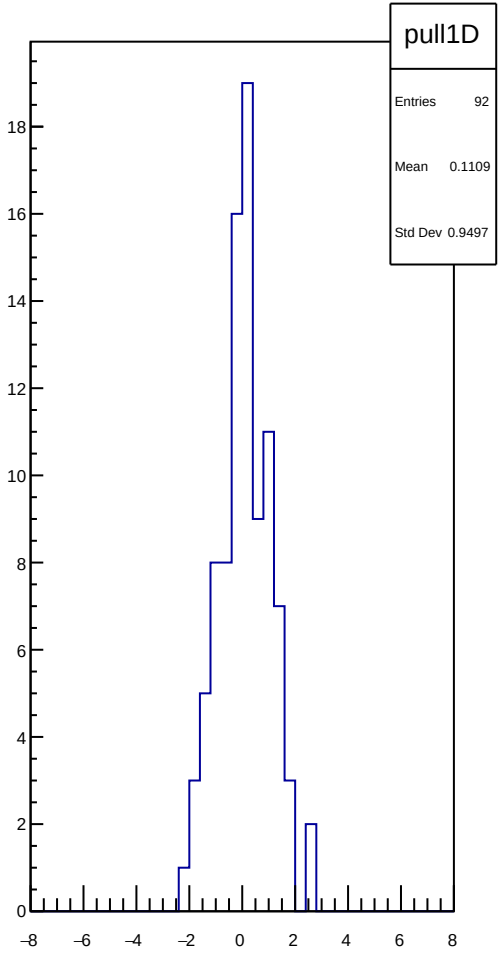

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 5361 / 91
p0 2302 ± 1.727
2700
2600
2500
2400
2300
2200
2100
2000

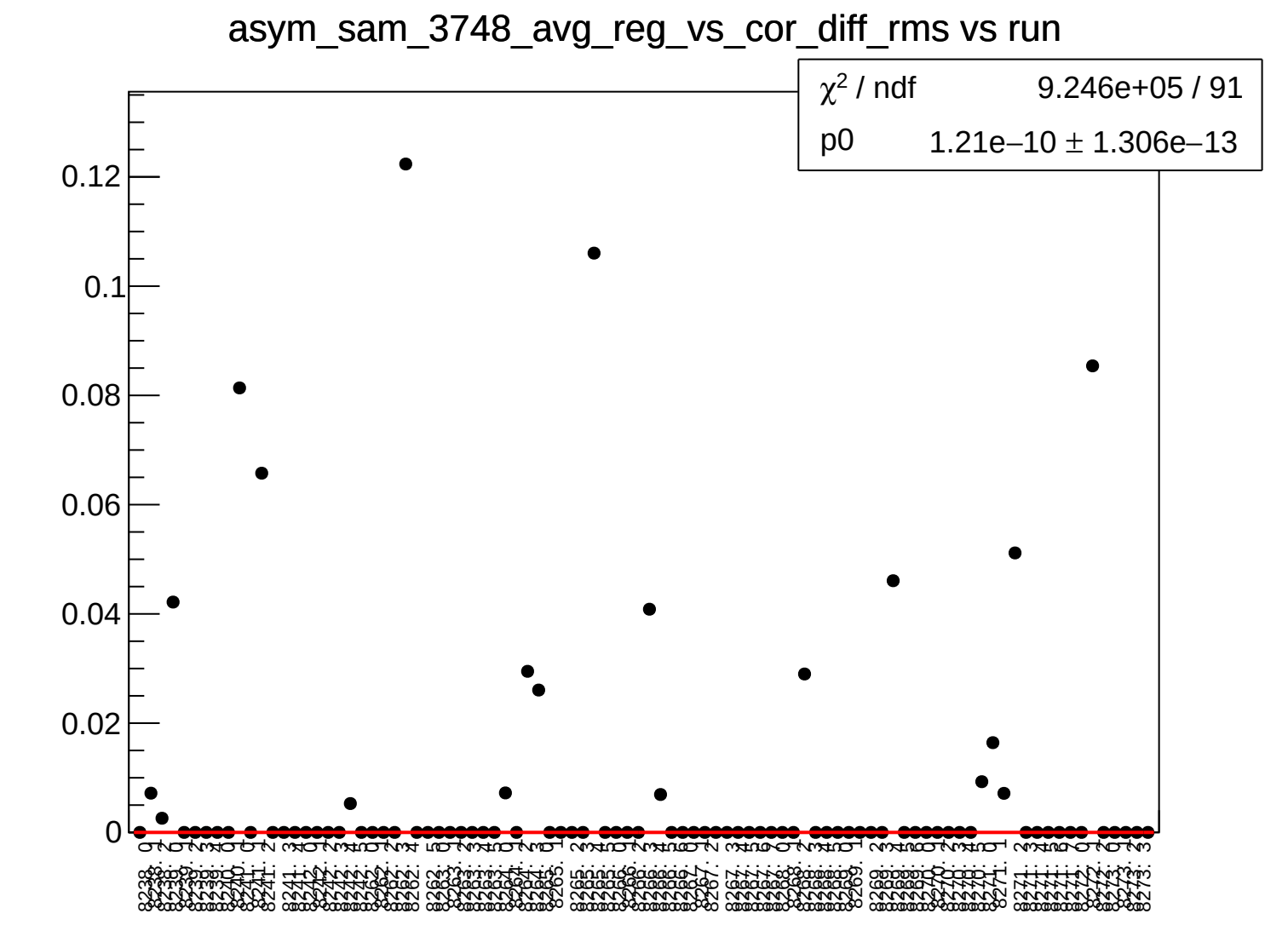

asym_sam_3748_avg_mean vs run
×10^3
χ^2 / ndf 74.32 / 91
p0 7945 ± 2445
pull
Entries 92
Mean −5672
Std Dev 0

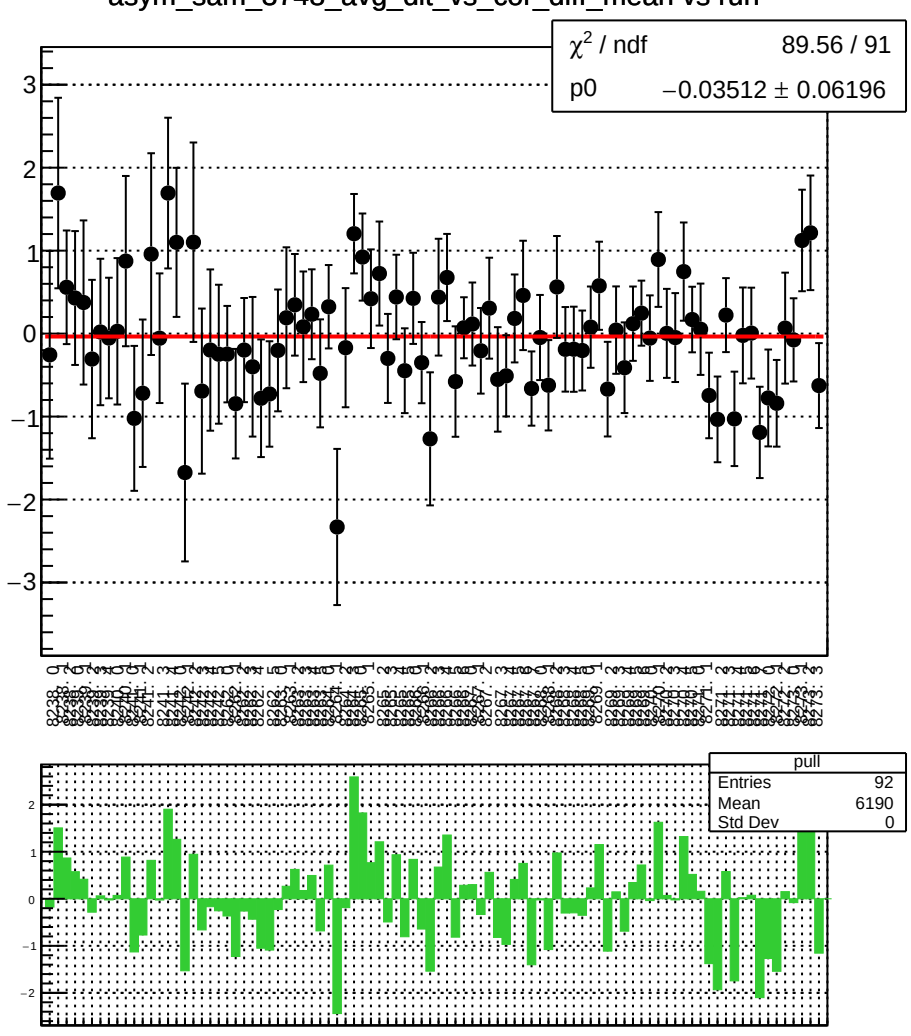

pull1D
Entries 92
Mean 0.001031
Std Dev 0.8988

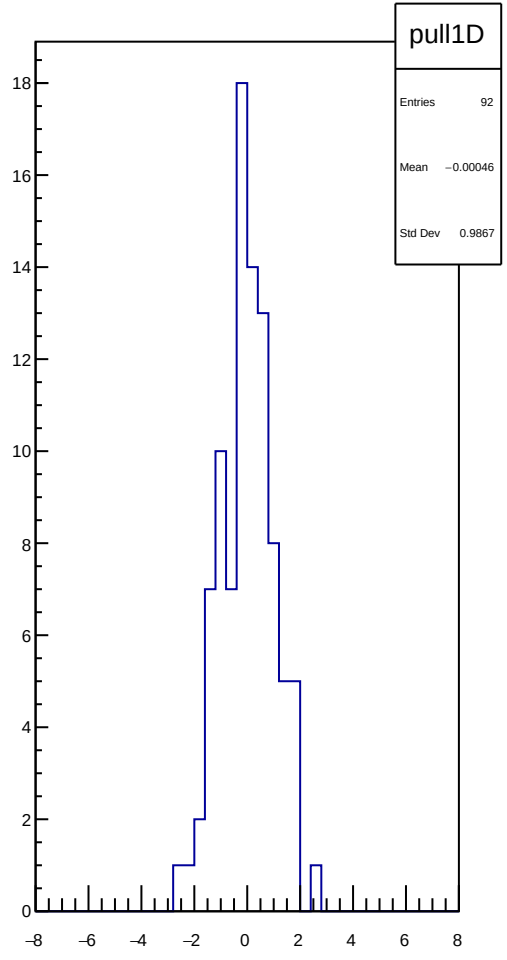

asym_sam_3748_avg_rms vs run
$\chi^2$ / ndf 7439 / 91
p0 2304 ± 1.729
2800
2700
2600
2500
2400
2300
2200
2100
2000

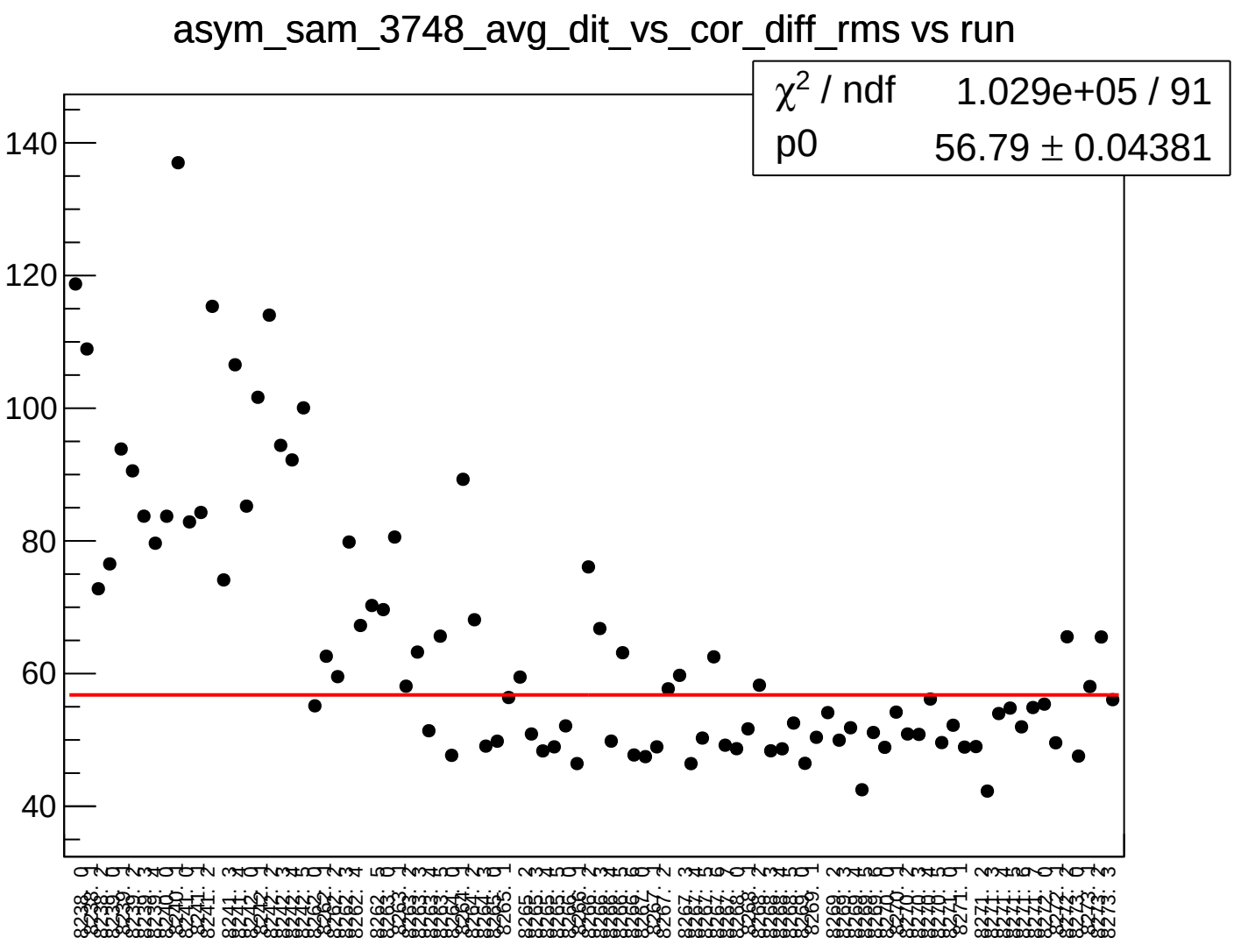

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.11 / 91
p0 2.842e−13 ± 1.847e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 92
Mean 53.27
Std Dev 22.82
2
1
0
−1
−2

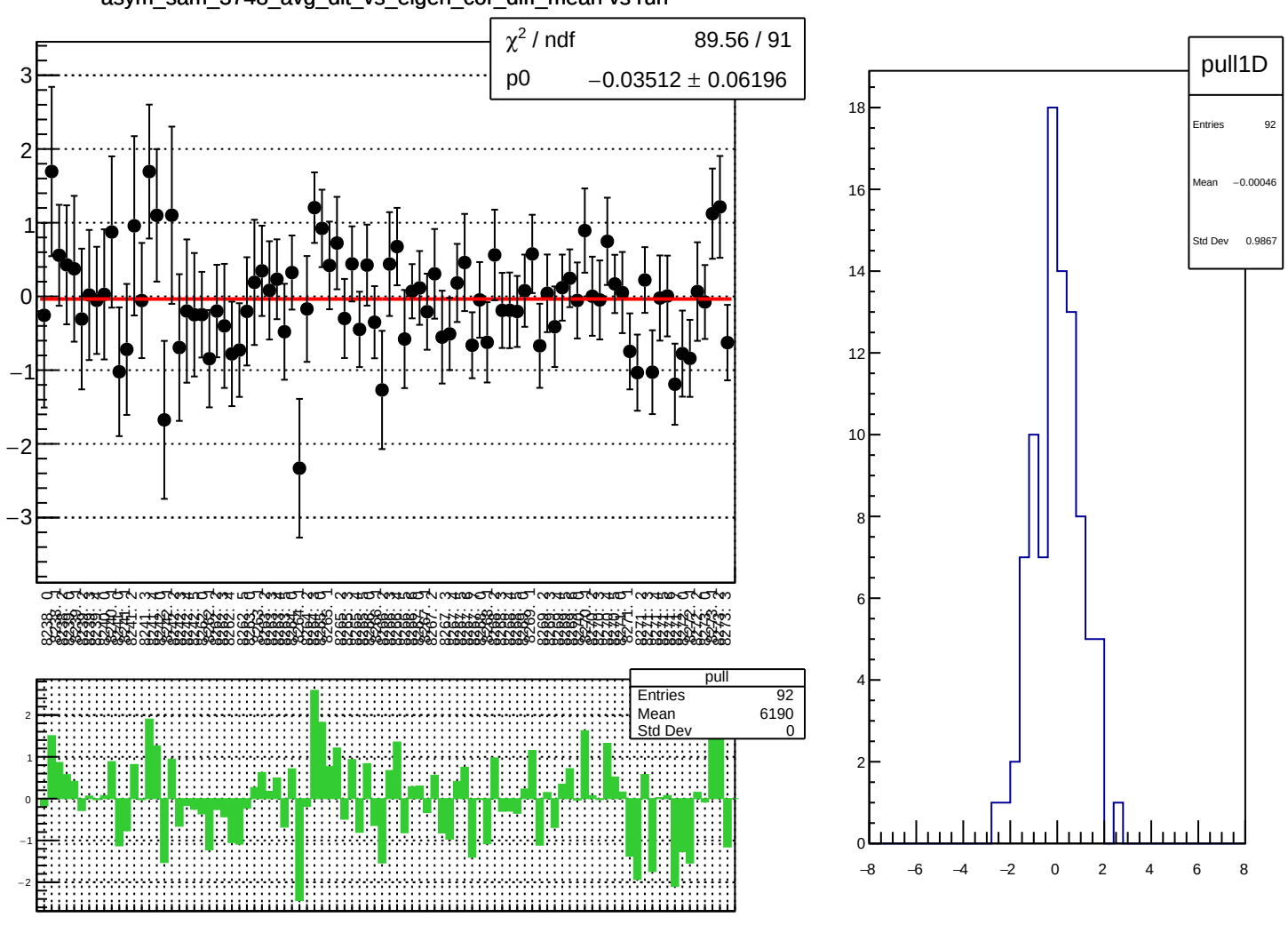

pull1D
Entries 92
Mean 0.1109
Std Dev 0.9497
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

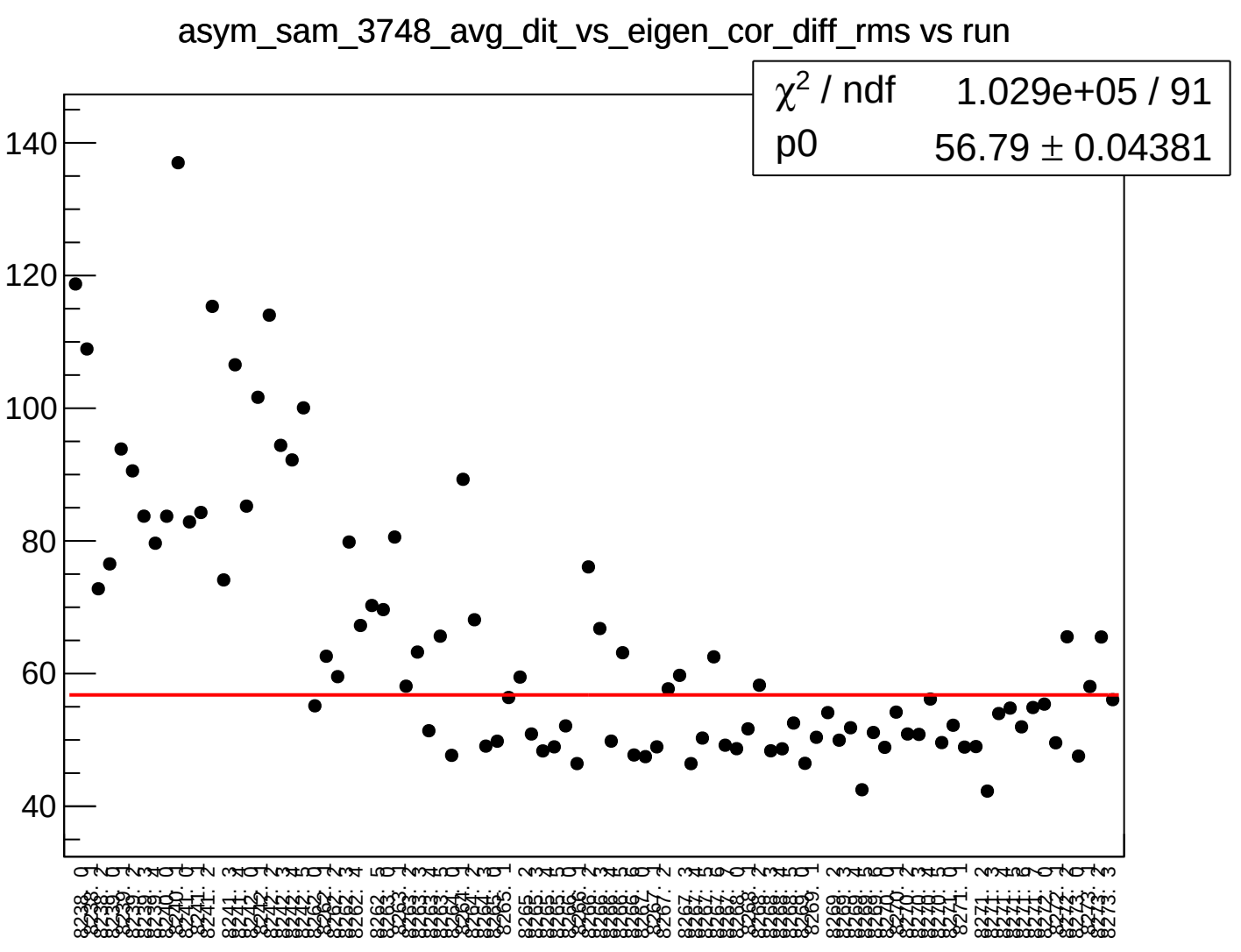

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.246e+05 / 91
p0 1.21e−10 ± 1.306e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

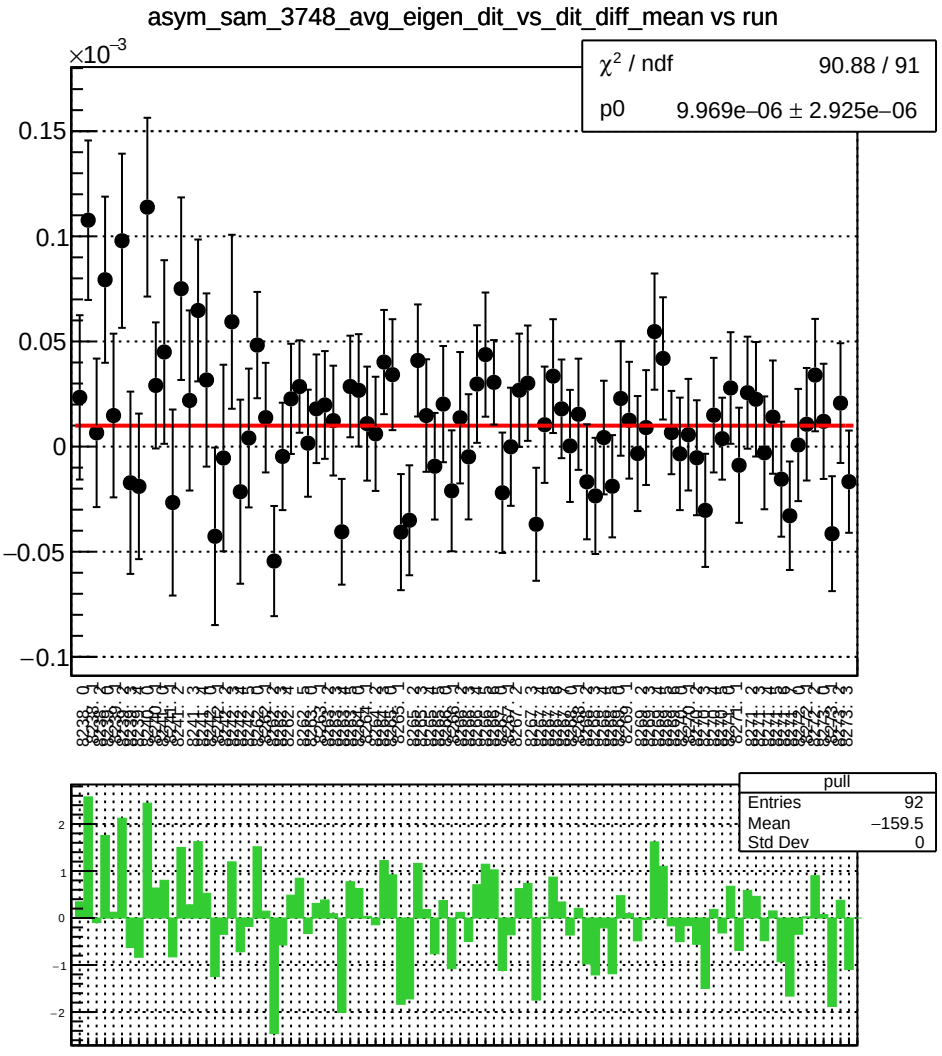

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.56 / 91
p0 −0.03512 ± 0.06196
pull
Entries 92
Mean 6190
Std Dev 0

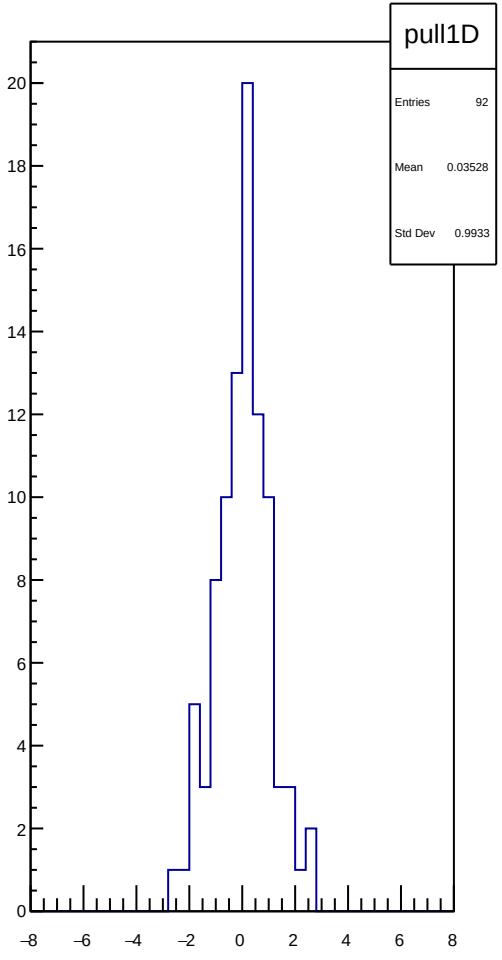

pull1D
Entries 92
Mean −0.00046
Std Dev 0.9867

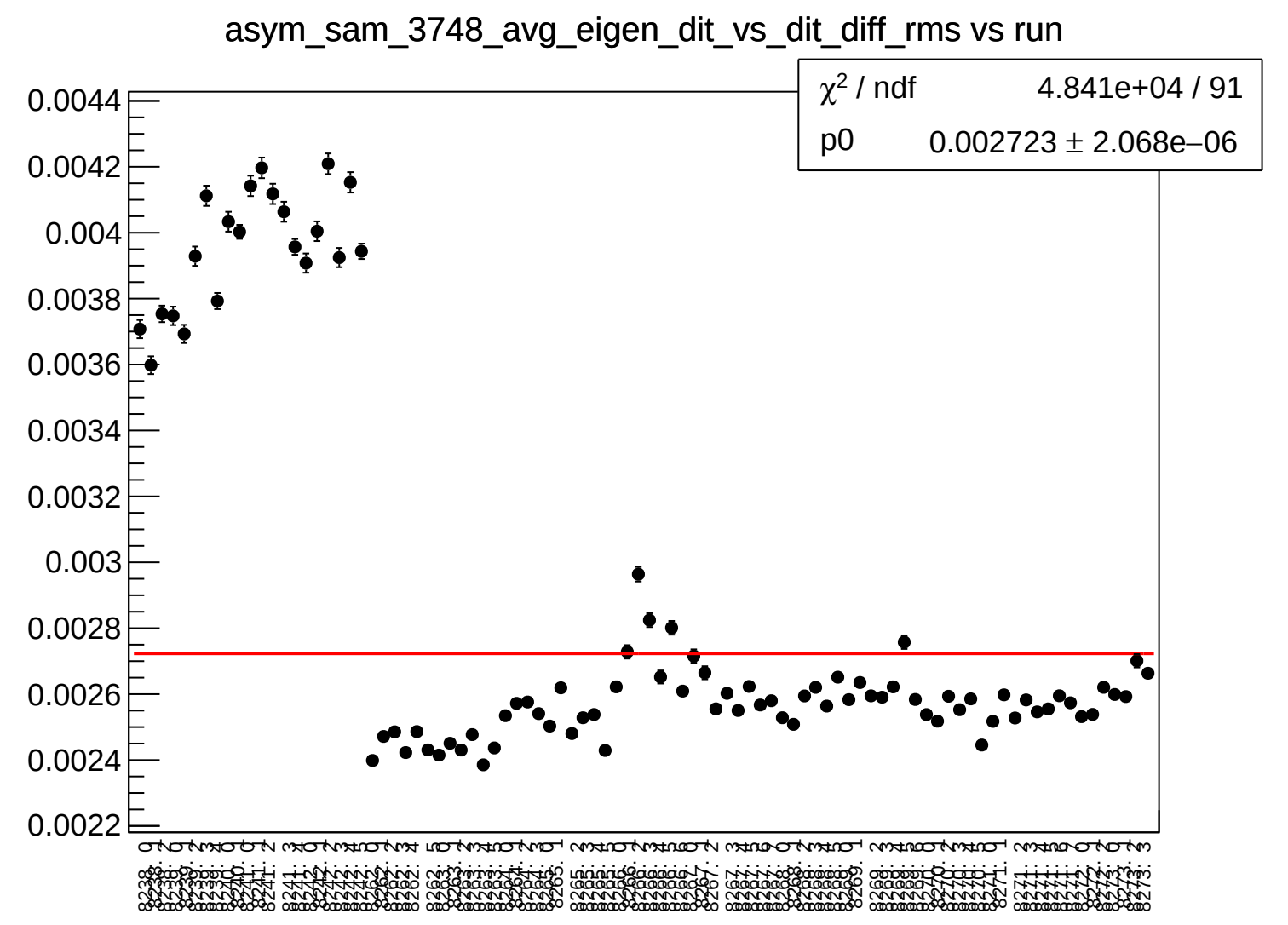

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.029e+05 / 91
p0 56.79 ± 0.04381
140
120
100
80
60
40

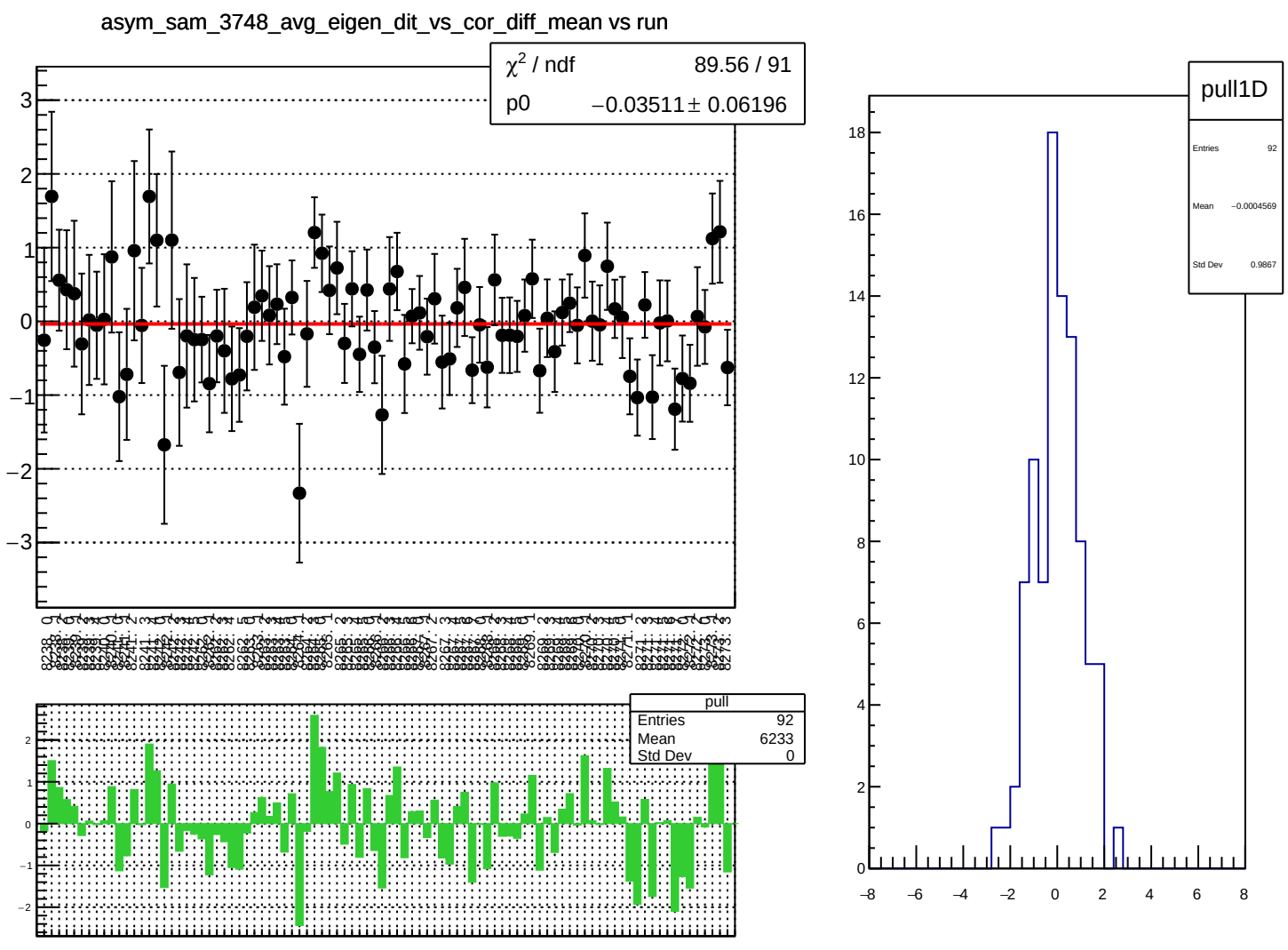

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.56 / 91
p0 −0.03512 ± 0.06196
pull
Entries 92
Mean 6190
Std Dev 0
pull1D
Entries 92
Mean −0.00046
Std Dev 0.9867

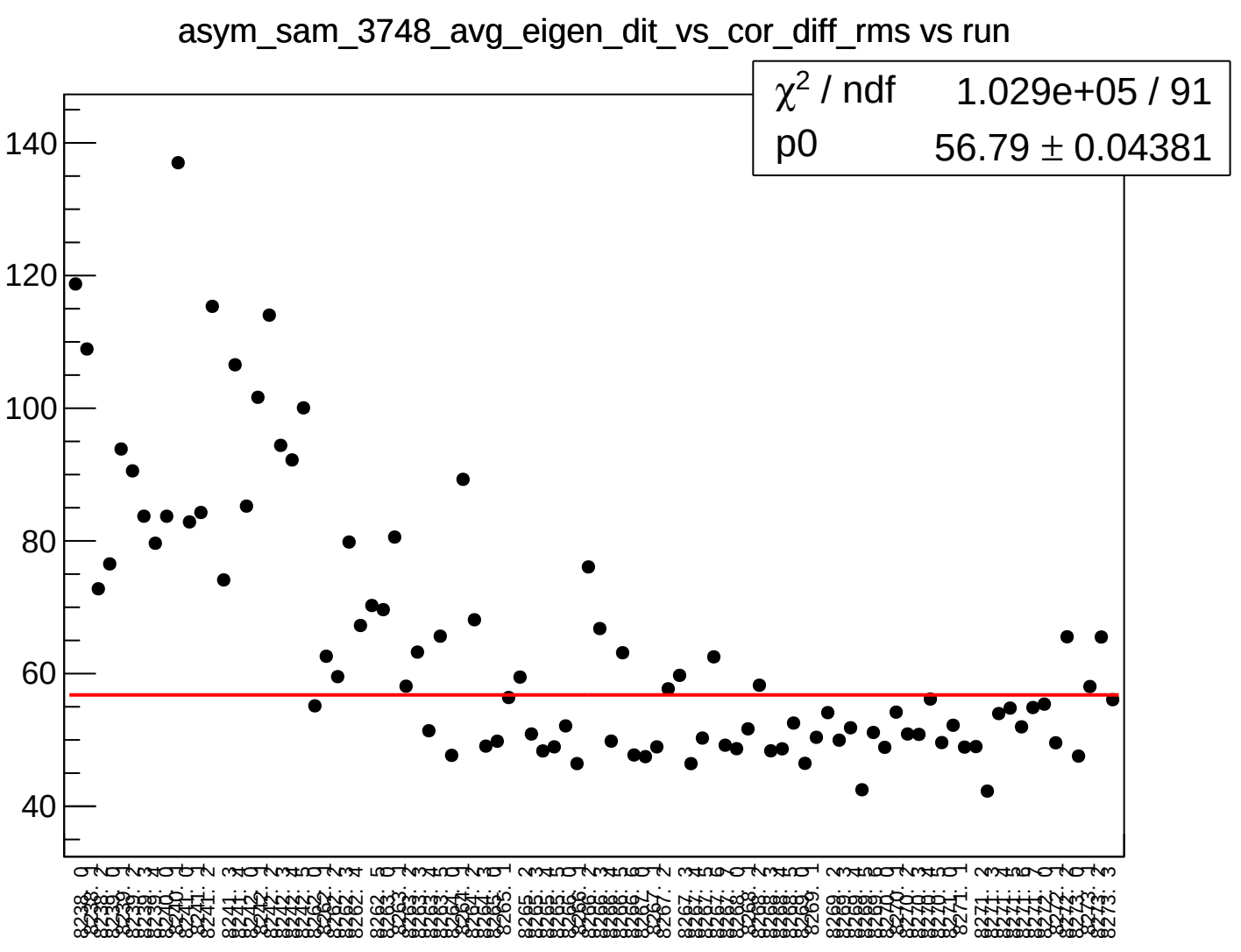

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 1.029e+05 / 91
p0 56.79 ± 0.04381
140
120
100
80
60
40

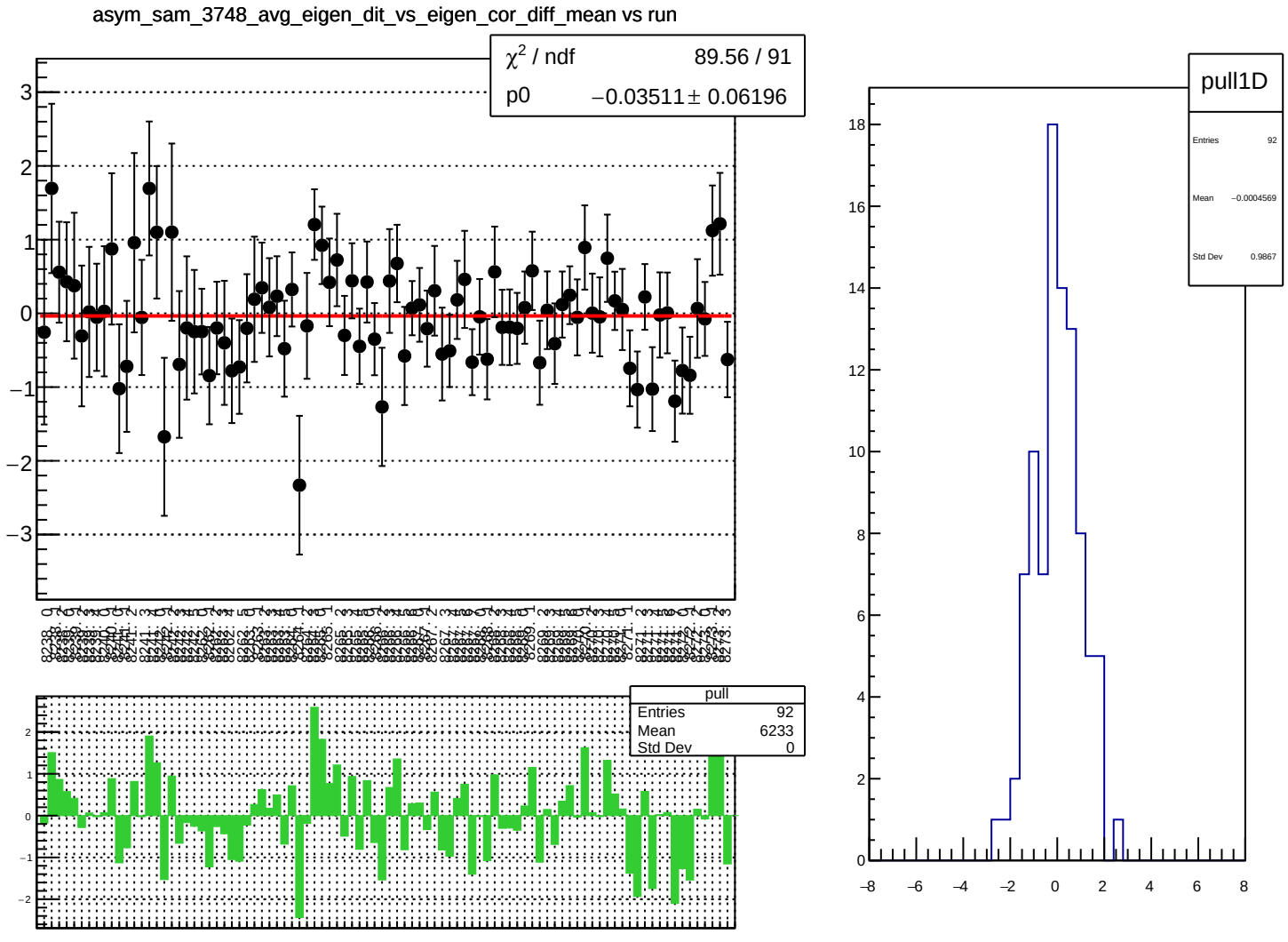

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.88 / 91
p0 9.969e−06 ± 2.925e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean −159.5
Std Dev 0
2
1
0
−1
−2

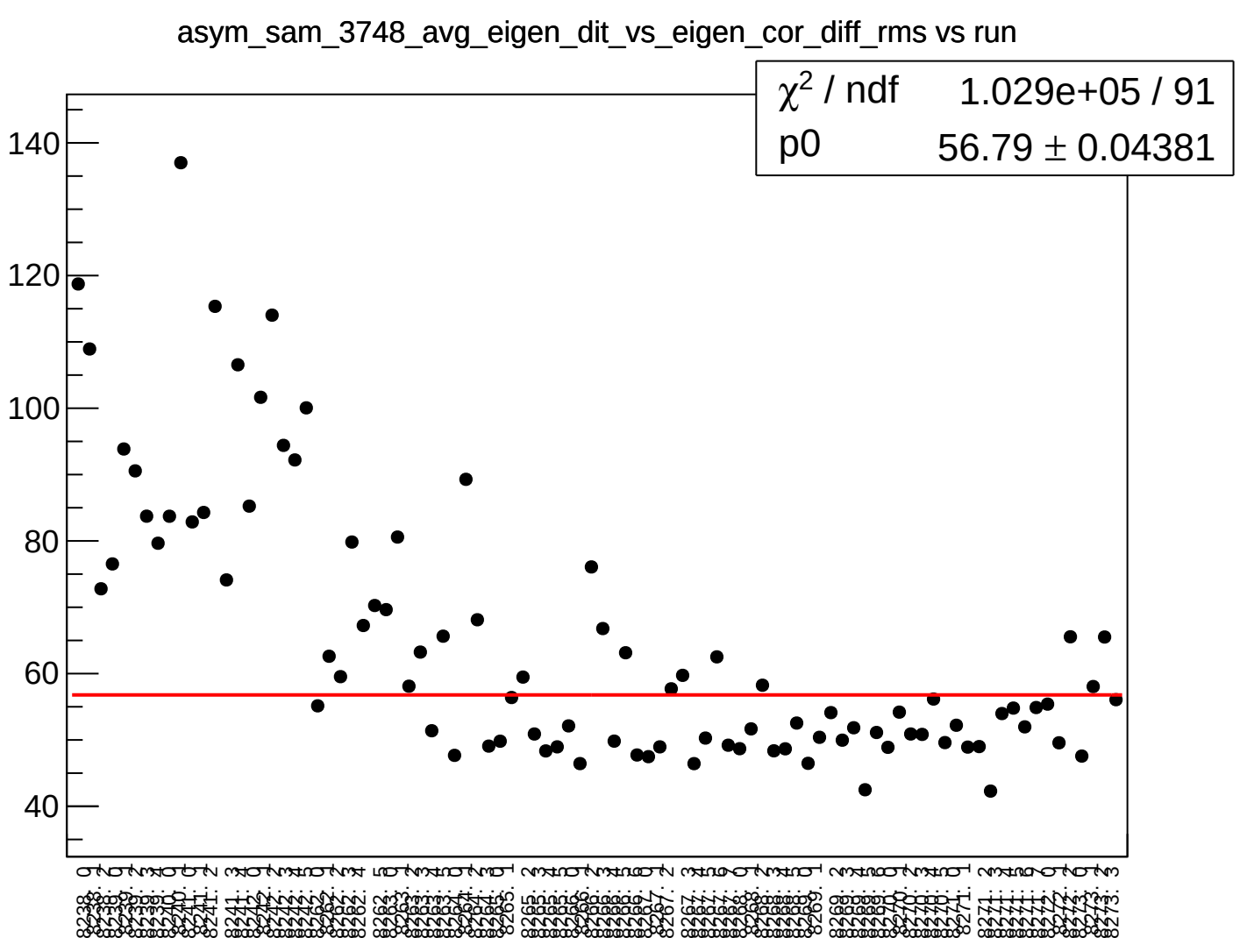

pull1D
Entries 92
Mean 0.03528
Std Dev 0.9933
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

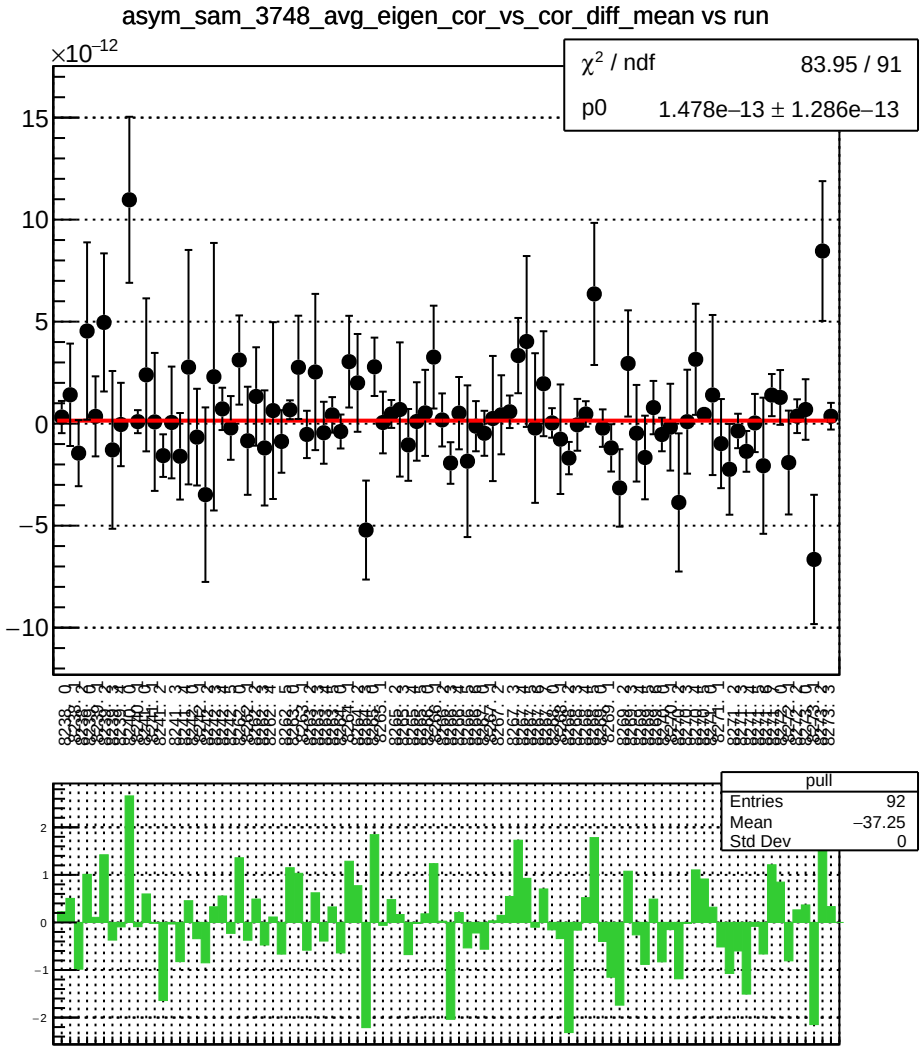

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.841e+04 / 91
p0 0.002723 ± 2.068e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

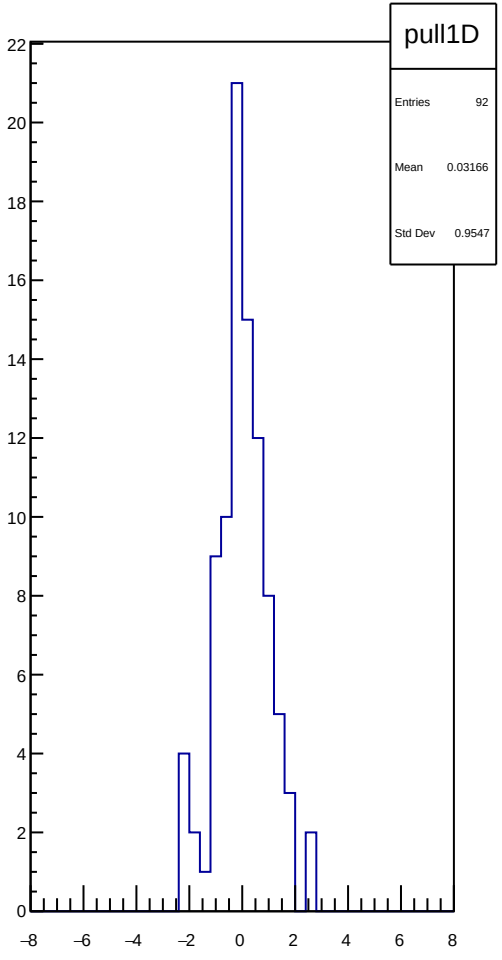

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.56 / 91
p0 −0.03511 ± 0.06196
pull
Entries 92
Mean 6233
Std Dev 0
pull1D
Entries 92
Mean −0.0004569
Std Dev 0.9867

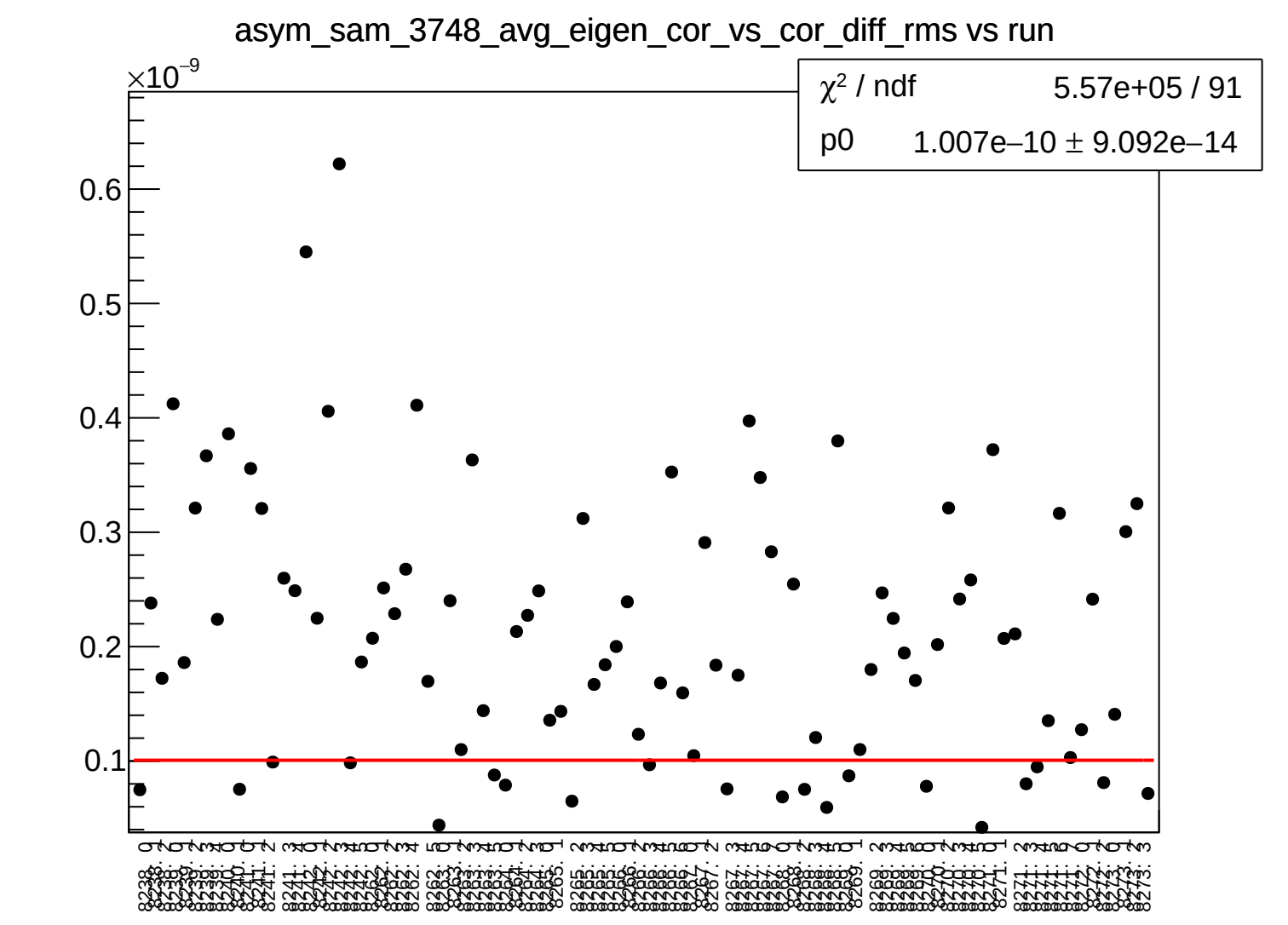

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.029e+05 / 91
p0 56.79 ± 0.04381
140
120
100
80
60
40

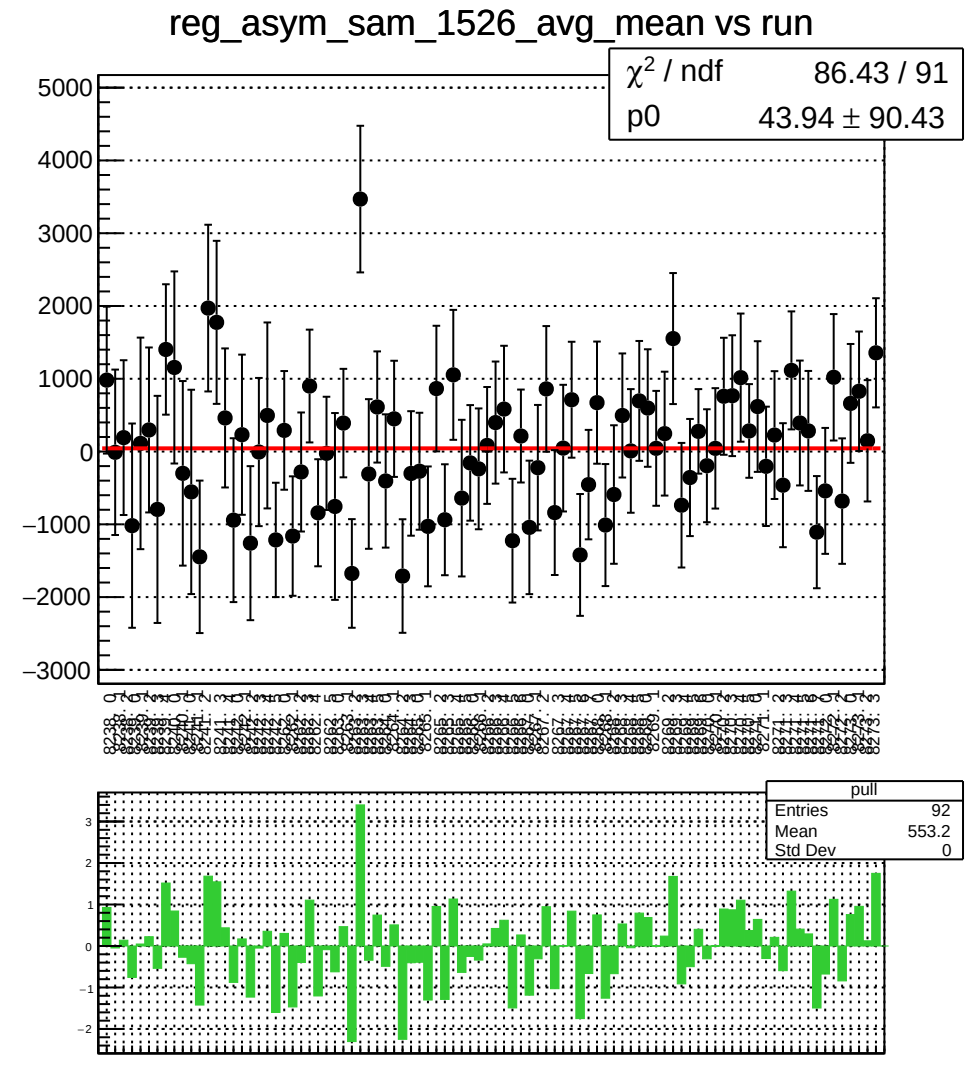

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.56 / 91
p0 −0.03511 ± 0.06196
pull
Entries 92
Mean 6233
Std Dev 0
pull1D
Entries 92
Mean −0.0004569
Std Dev 0.9867

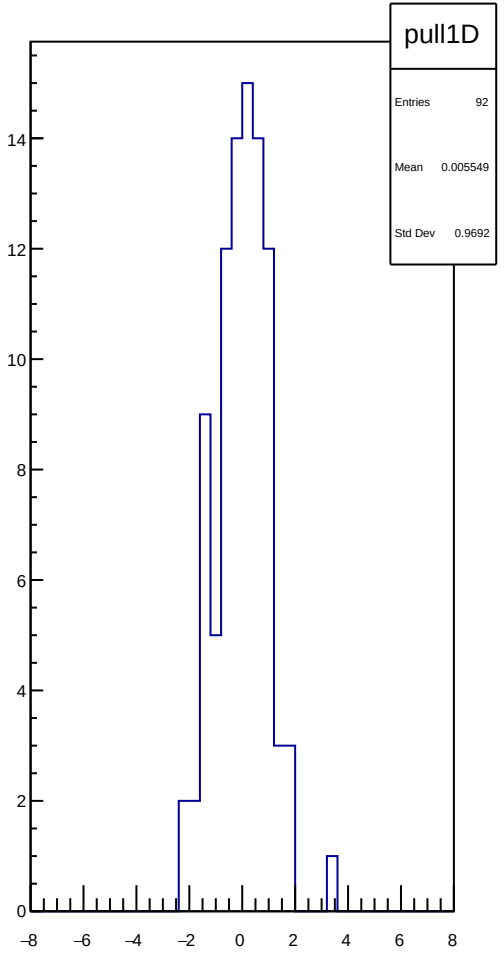

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 1.029e+05 / 91
p0 56.79 ± 0.04381
140
120
100
80
60
40

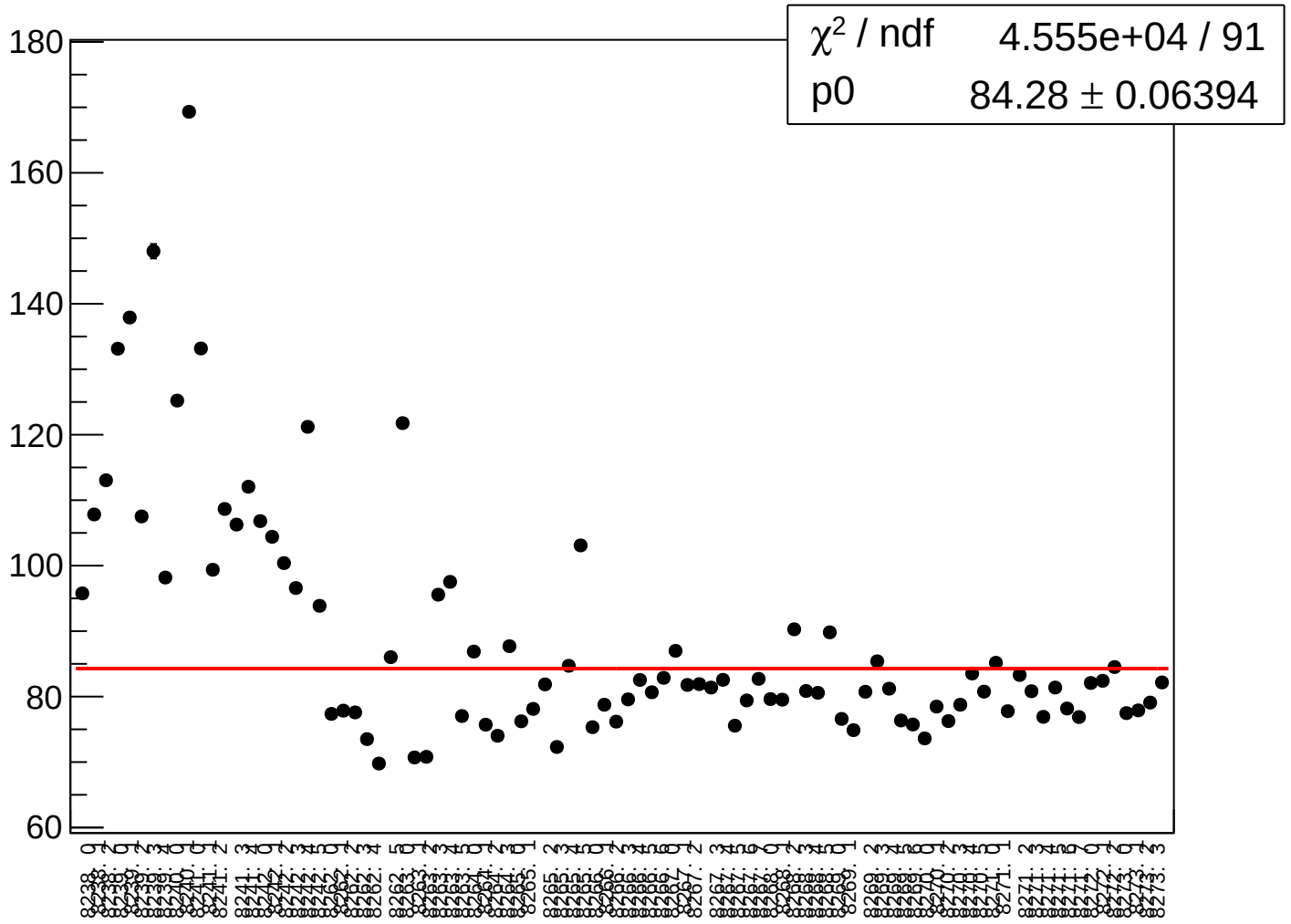

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.95 / 91
p0 1.478e−13 ± 1.286e−13
pull
Entries 92
Mean −37.25
Std Dev 0

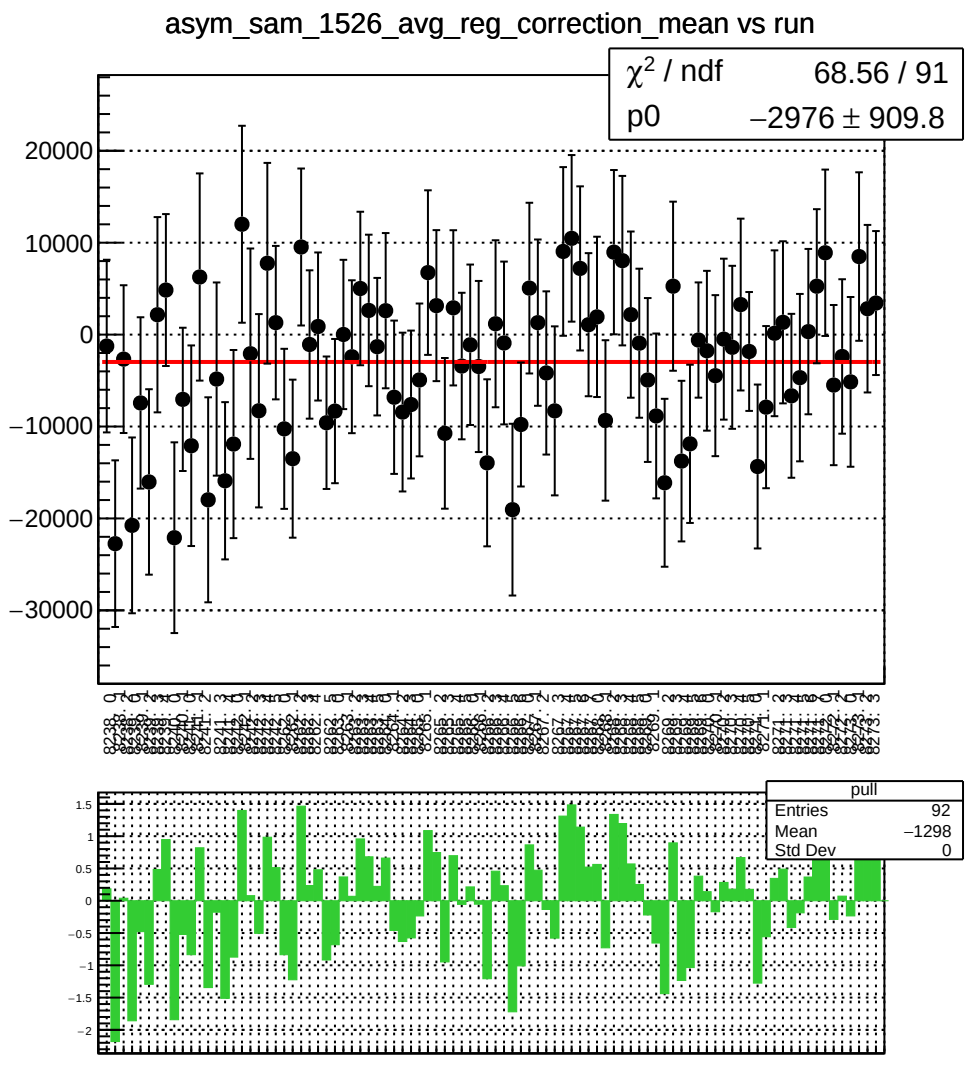

pull1D
Entries 92
Mean 0.03166
Std Dev 0.9547

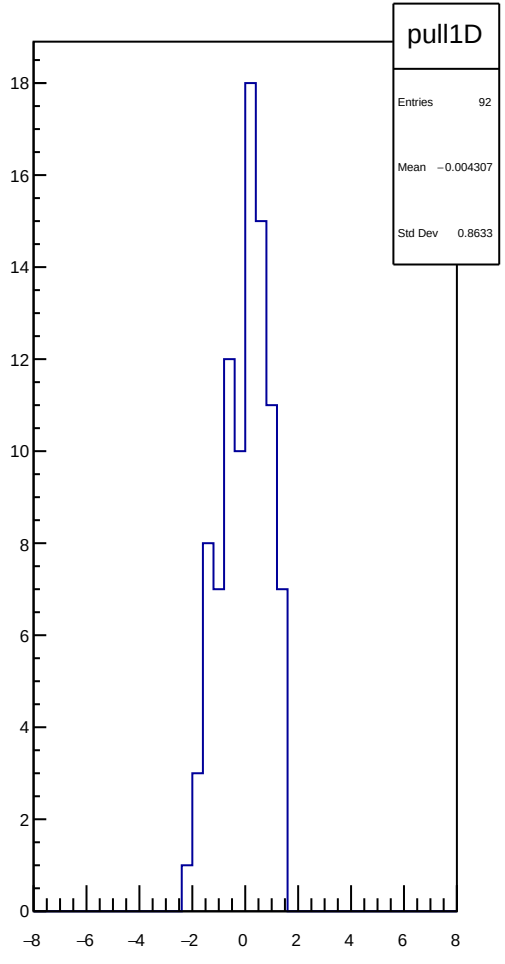

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.57e+05 / 91
p0 1.007e−10 ± 9.092e−14
0.6
0.5
0.4
0.3
0.2
0.1

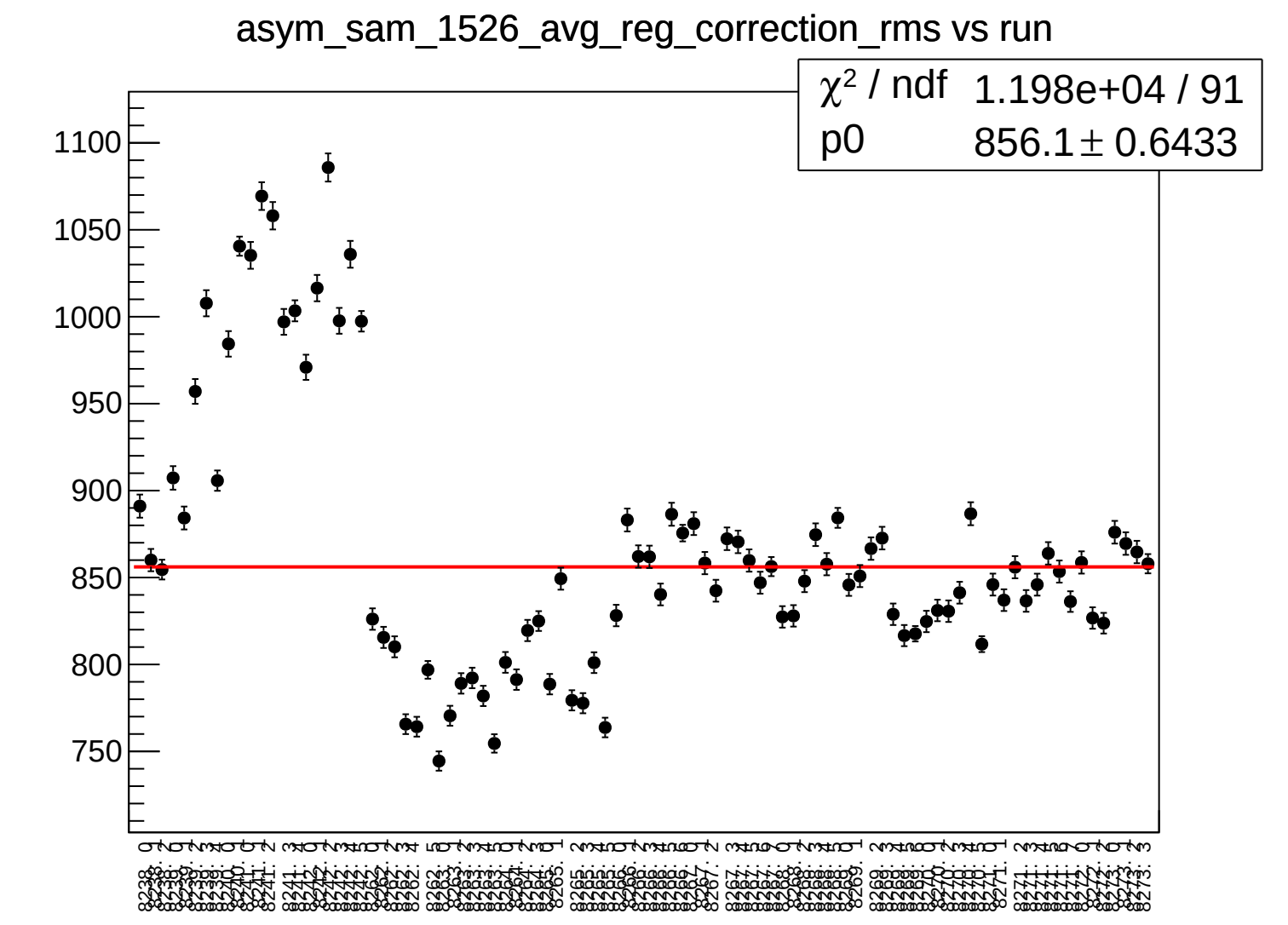

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 86.43 / 91
p0 43.94 ± 90.43
pull
Entries 92
Mean 553.2
Std Dev 0

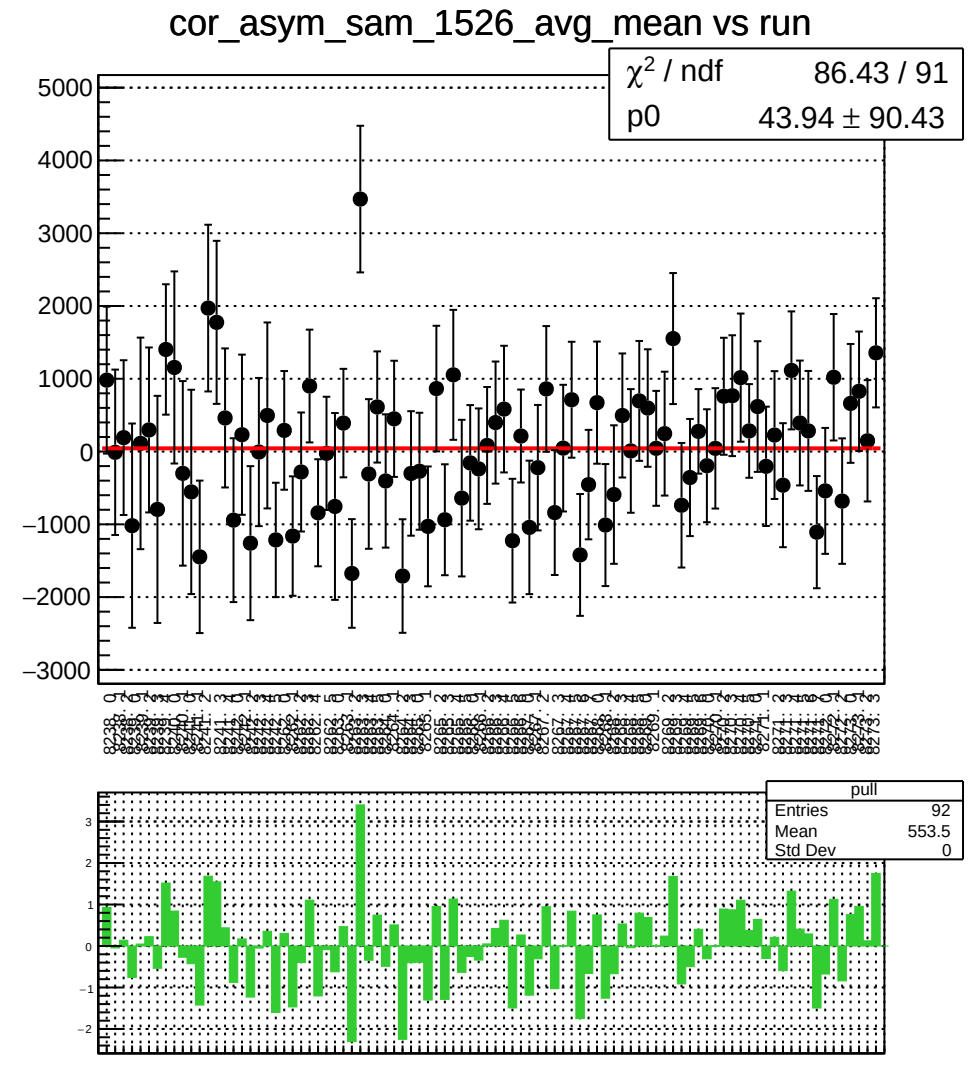

pull1D
Entries 92
Mean 0.005549
Std Dev 0.9692

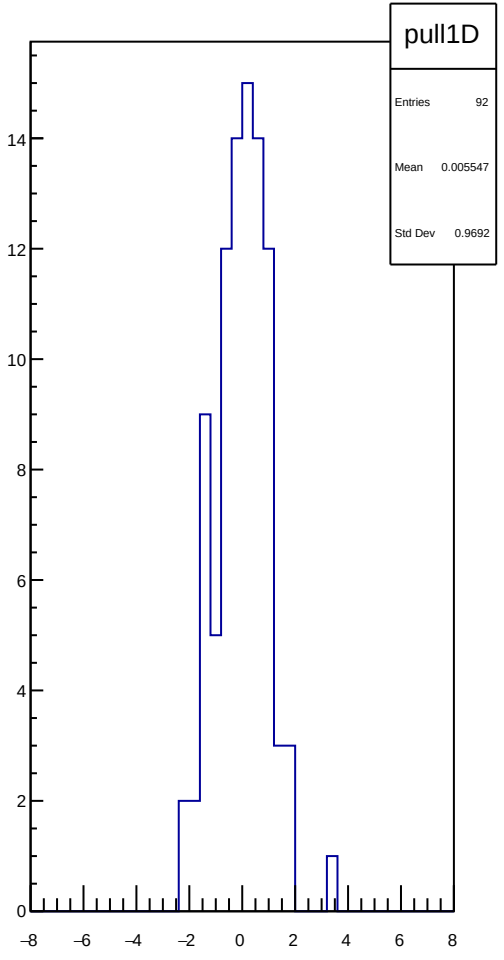

reg_asym_sam_1526_avg_rms vs run
$\chi^2$ / ndf 4.555e+04 / 91
p0 84.28 ± 0.06394
180
160
140
120
100
80
60

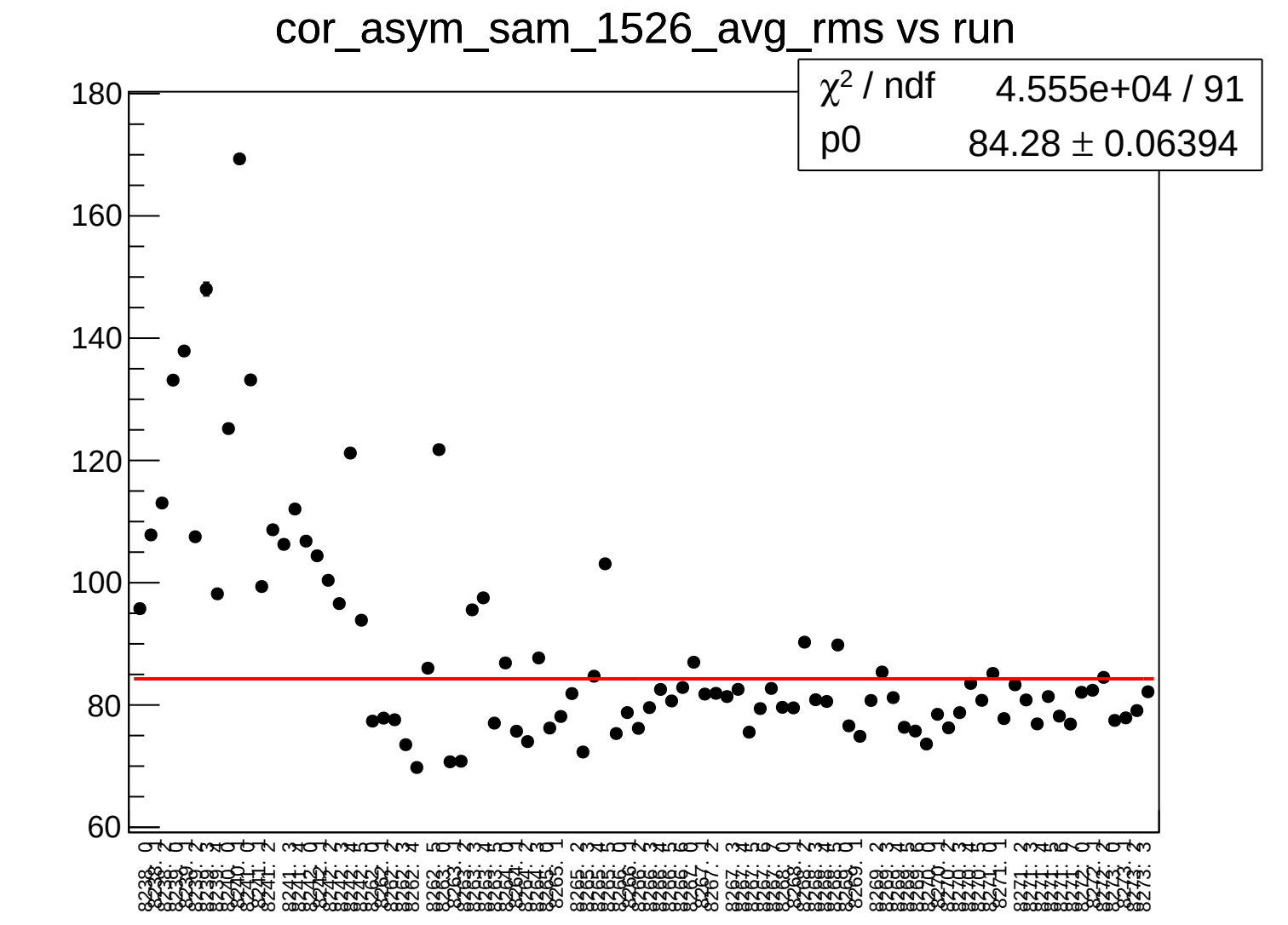

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 68.56 / 91
p0 −2976 ± 909.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1298
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

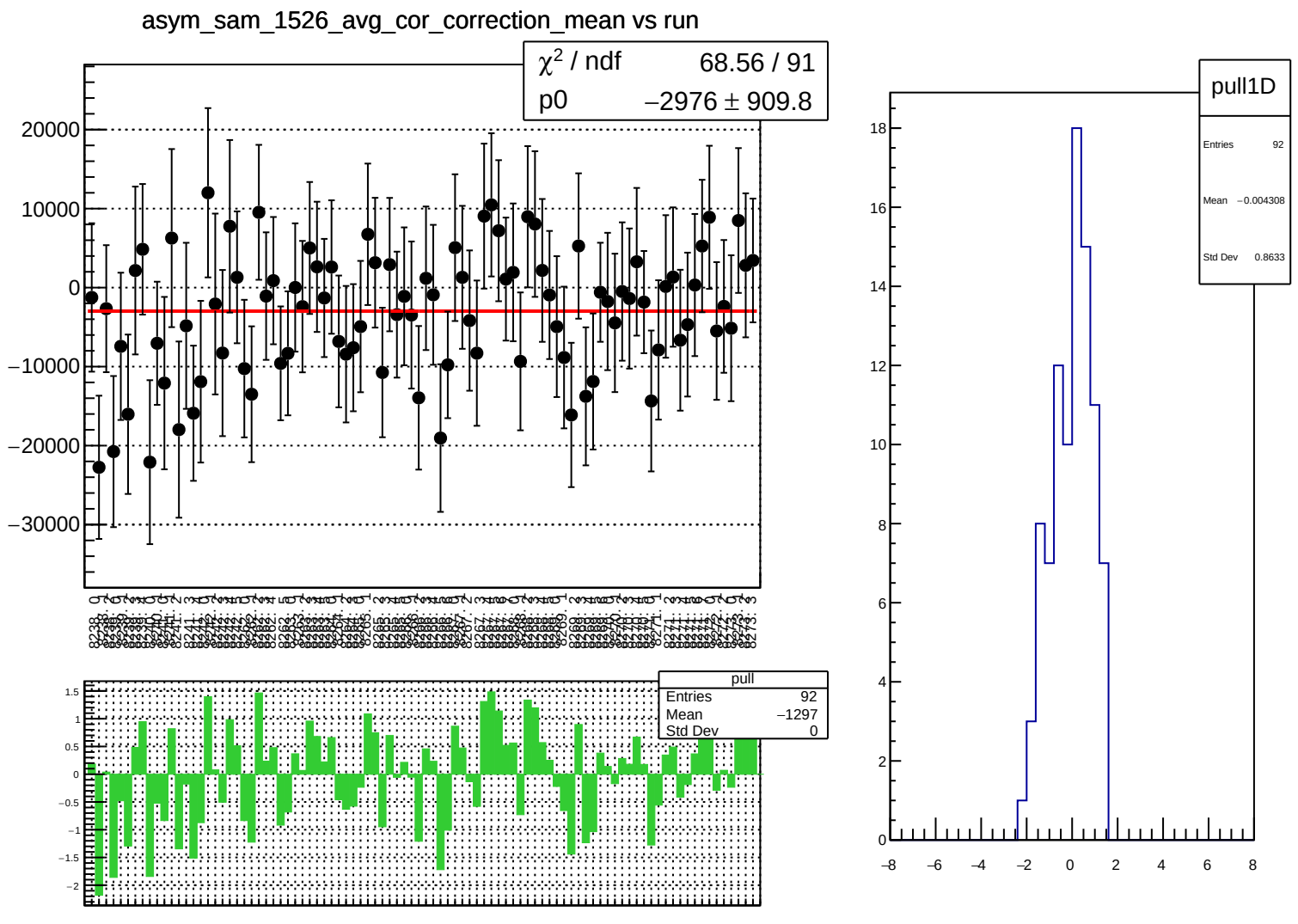

pull1D
Entries 92
Mean −0.004307
Std Dev 0.8633
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

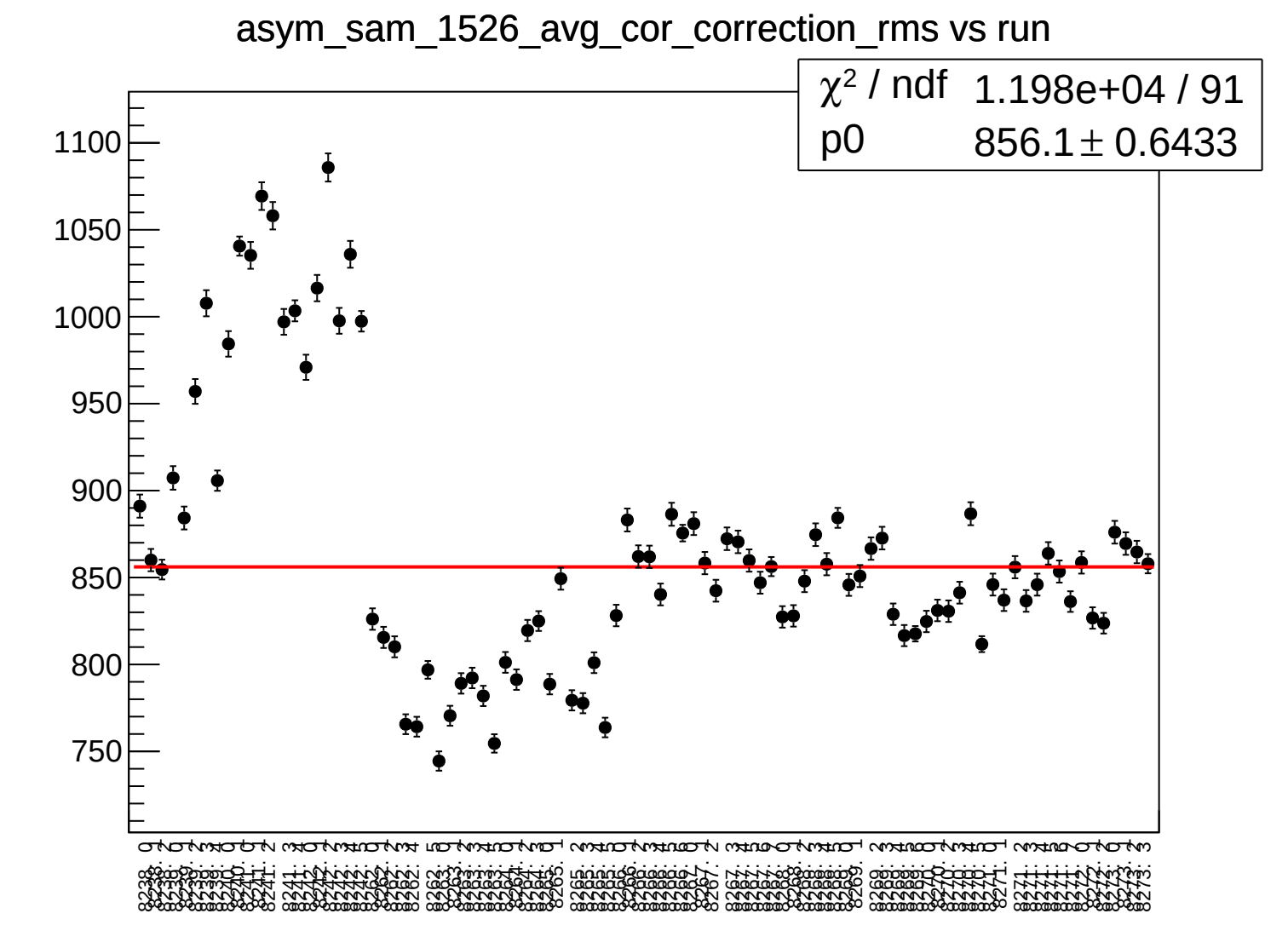

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 1.198e+04 / 91
p0 856.1 ± 0.6433
1100
1050
1000
950
900
850
800
750

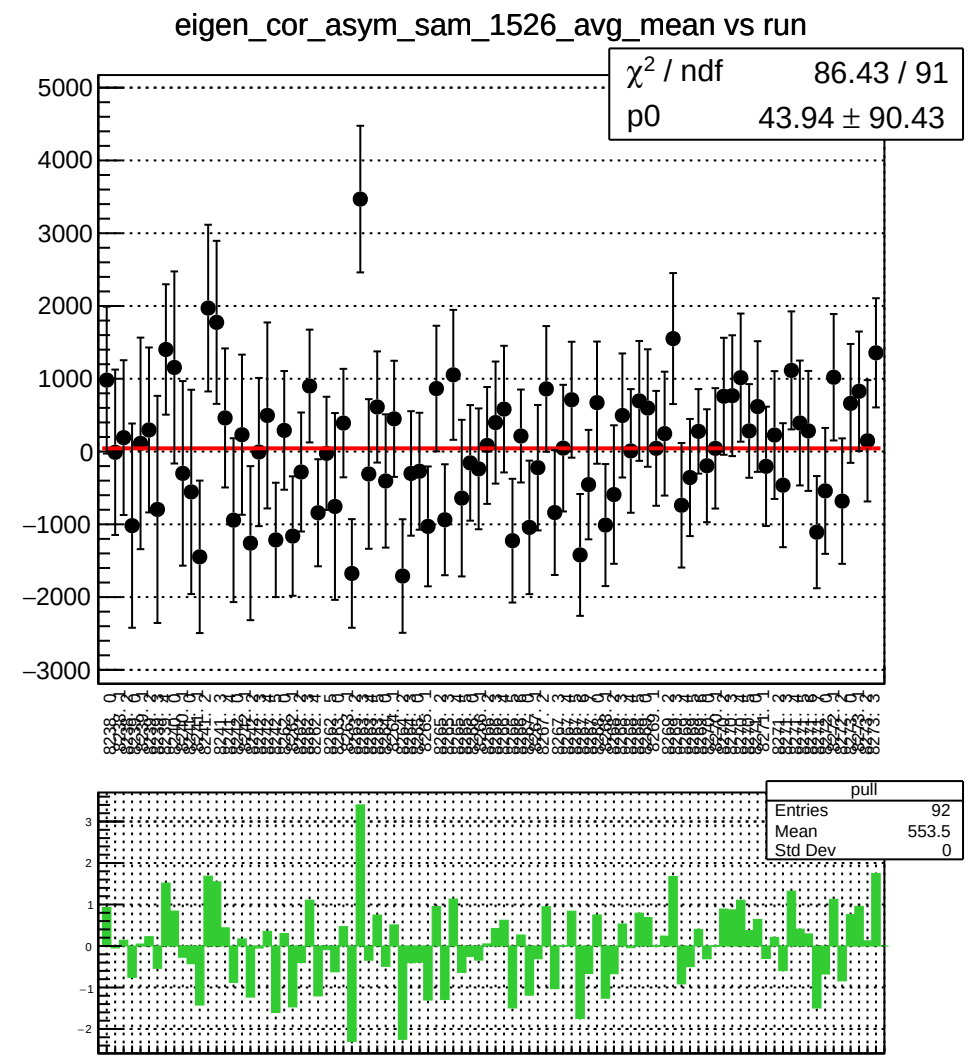

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 86.43 / 91
p0 43.94 ± 90.43
pull
Entries 92
Mean 553.5
Std Dev 0

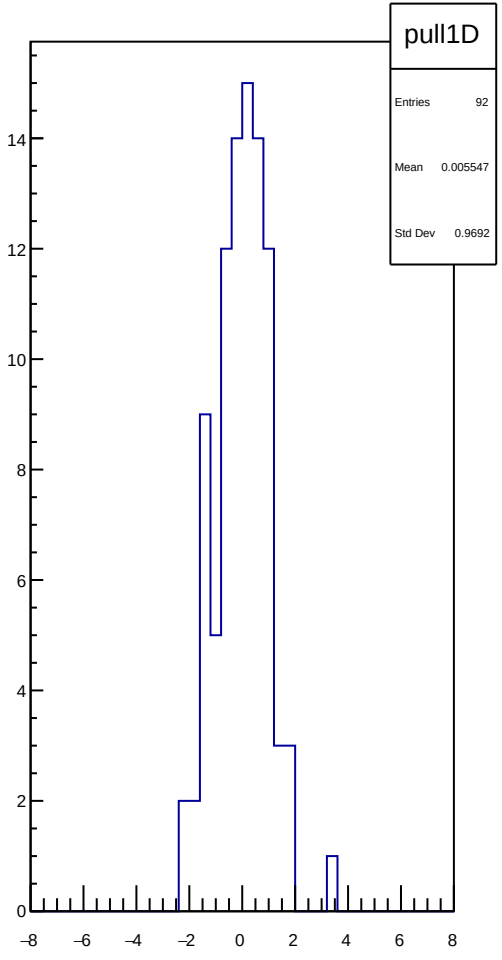

pull1D
Entries 92
Mean 0.005547
Std Dev 0.9692

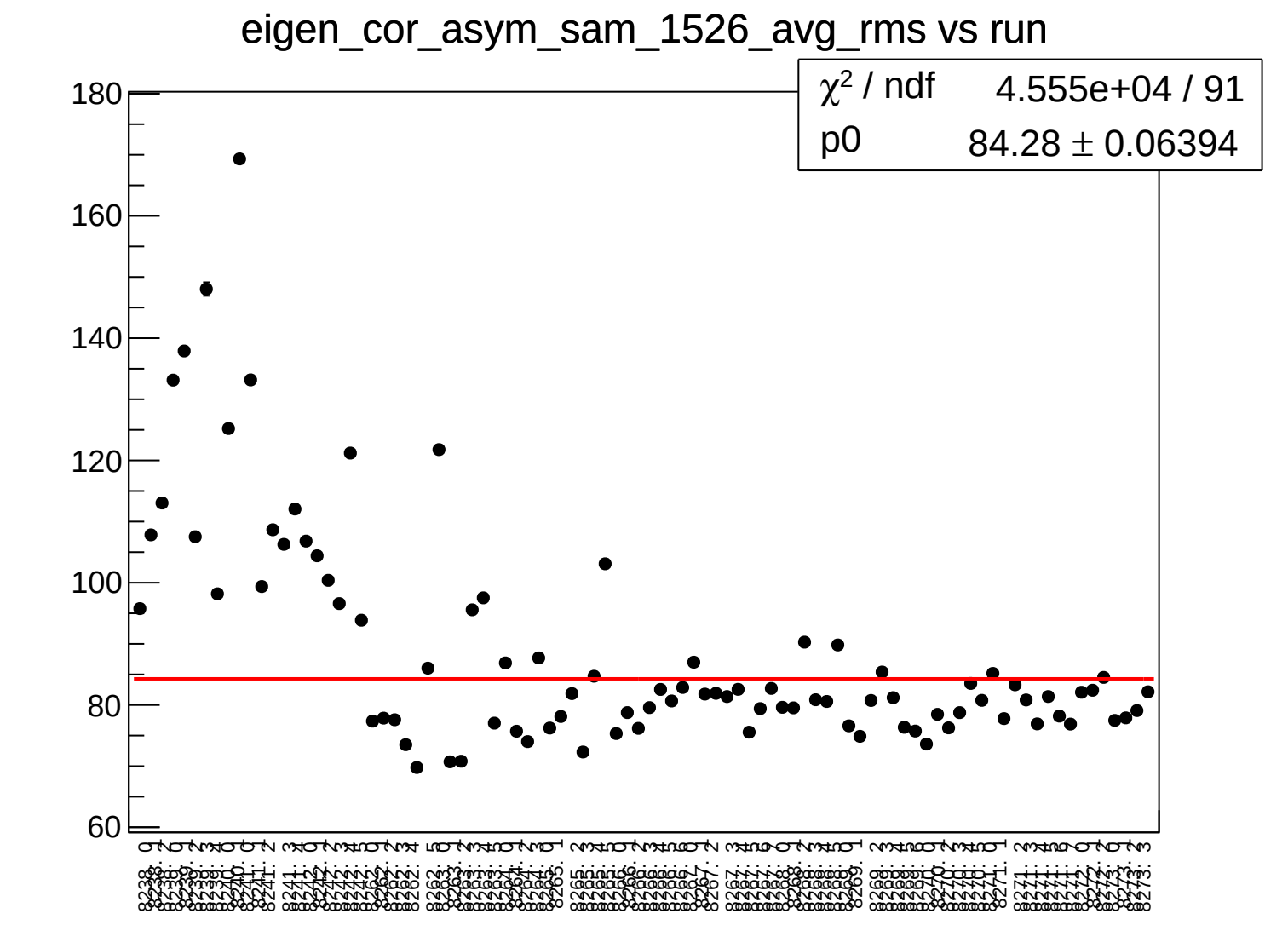

cor_asym_sam_1526_avg_rms vs run
$\chi^2$ / ndf 4.555e+04 / 91
p0 84.28 ± 0.06394
180
160
140
120
100
80
60

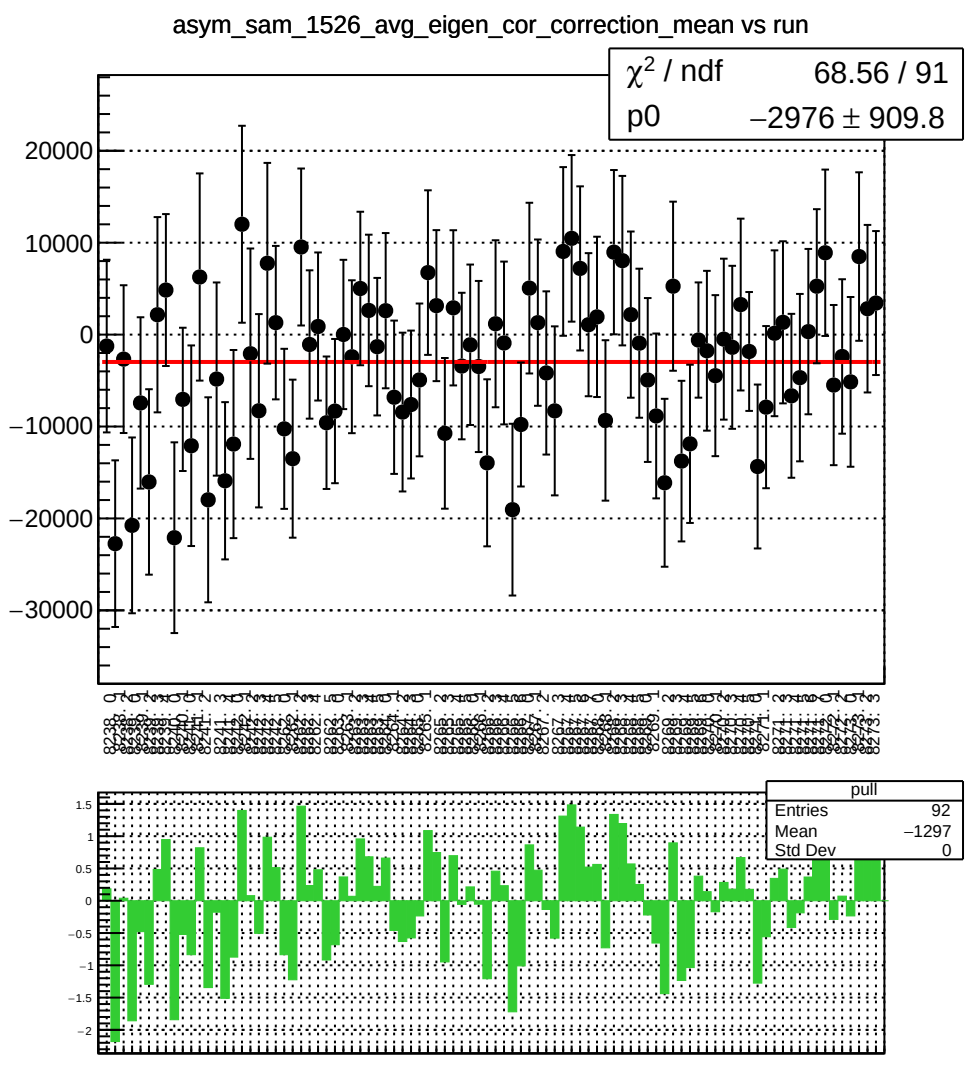

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 68.56 / 91
p0 −2976 ± 909.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1297
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.004308
Std Dev 0.8633
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

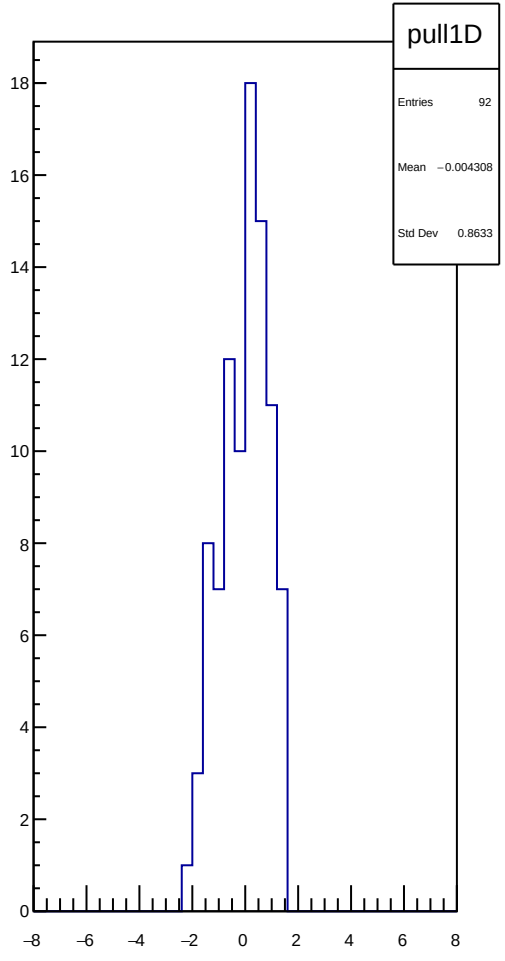

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 1.198e+04 / 91
p0 856.1 ± 0.6433
1100
1050
1000
950
900
850
800
750

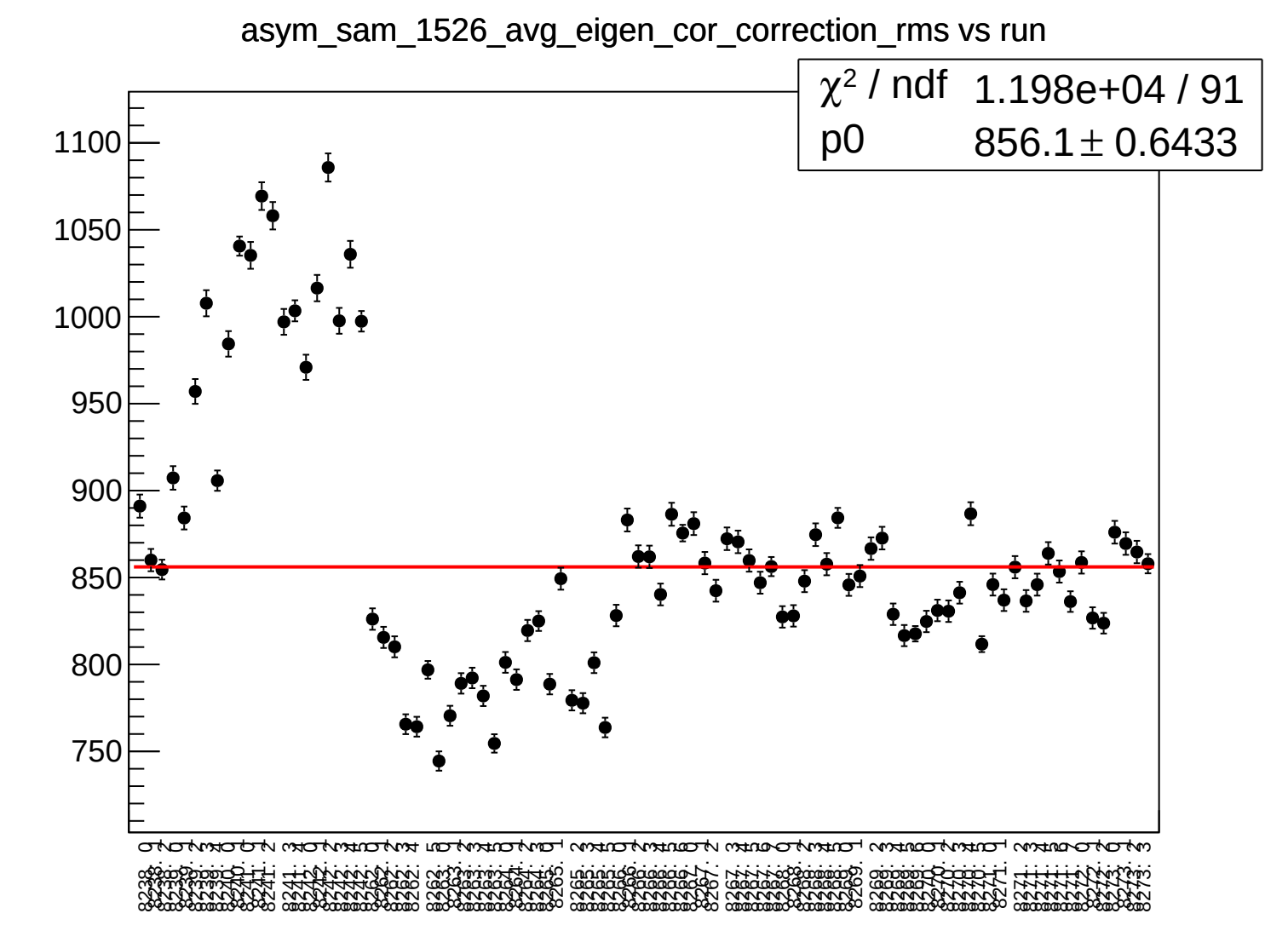

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 86.43 / 91
p0 43.94 ± 90.43
pull
Entries 92
Mean 553.5
Std Dev 0

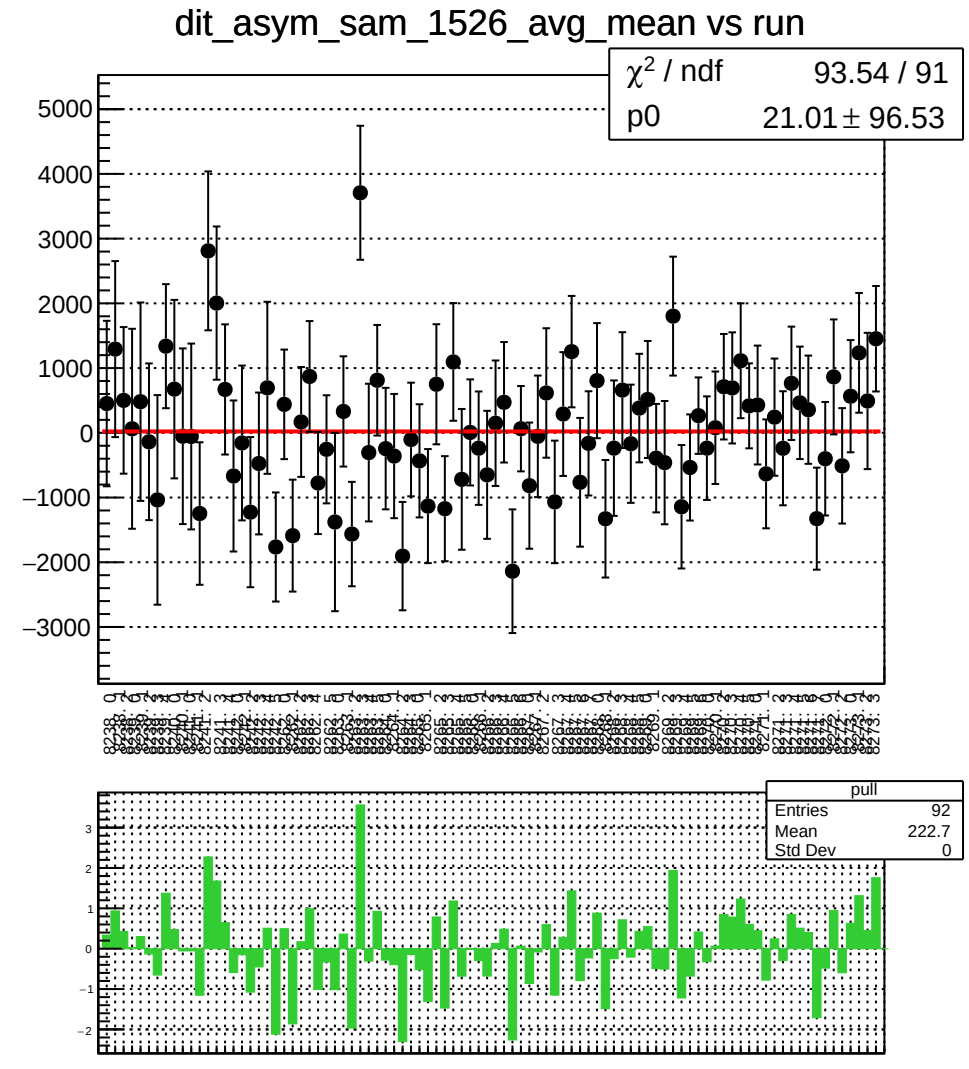

pull1D
Entries 92
Mean 0.005547
Std Dev 0.9692

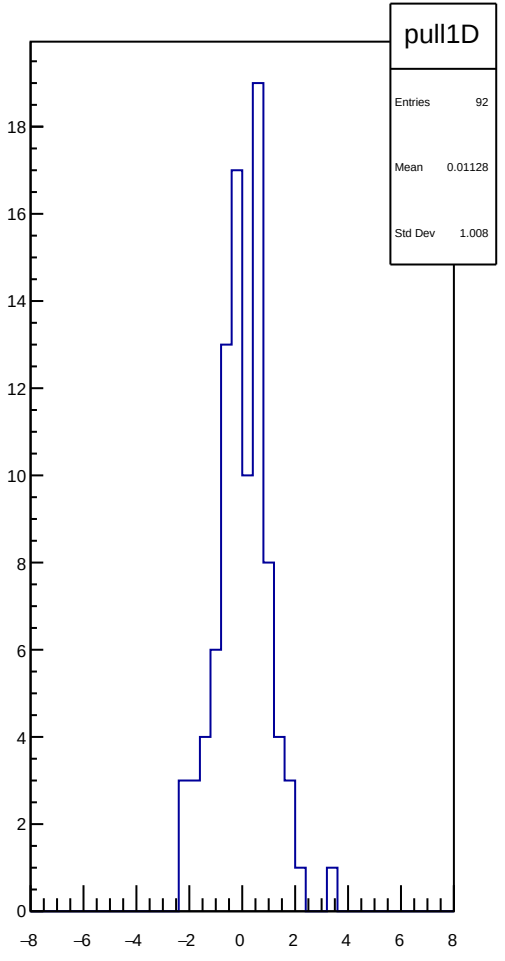

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 4.555e+04 / 91
p0 84.28 ± 0.06394
180
160
140
120
100
80
60

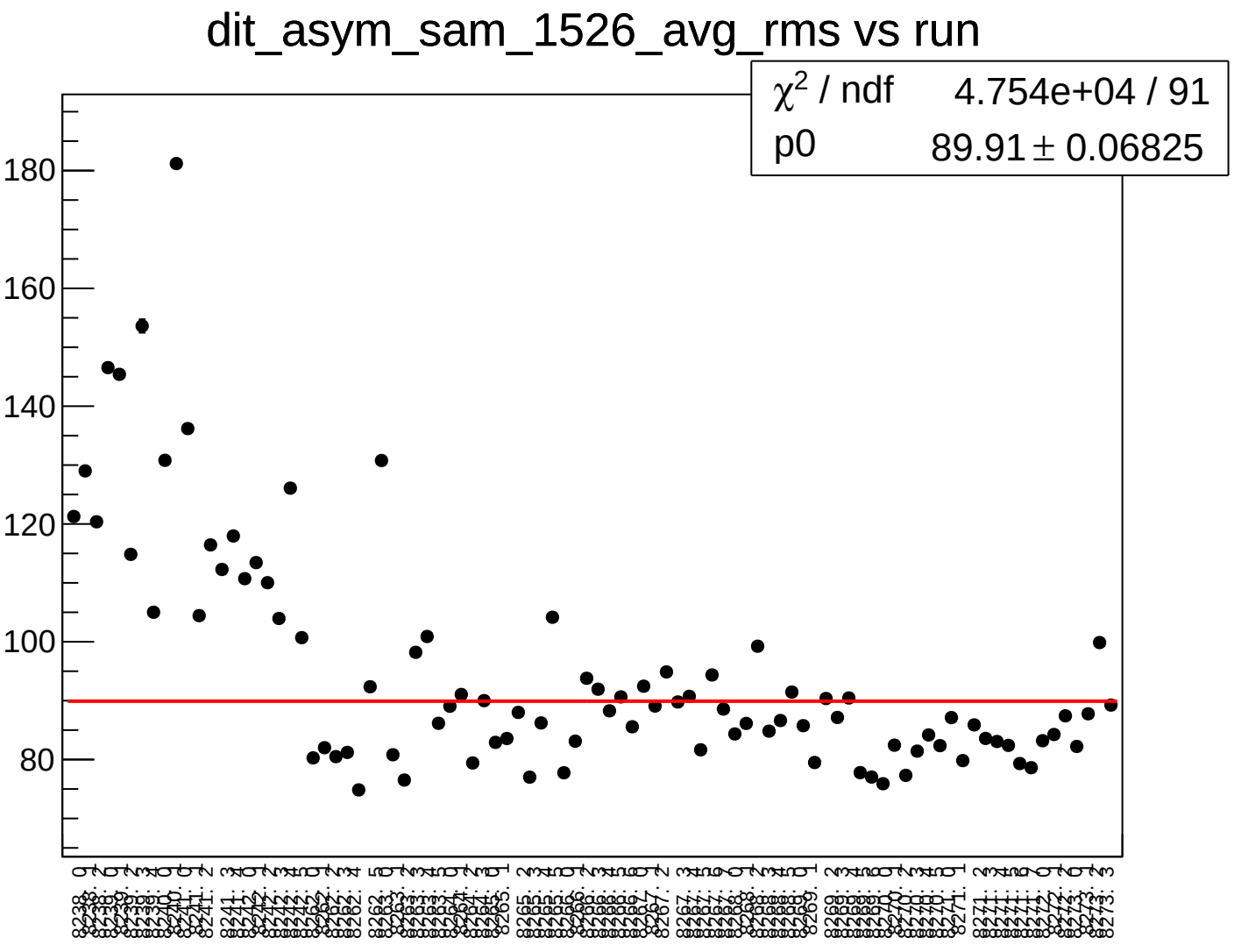

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 68.56 / 91
p0 −2976 ± 909.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1297
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

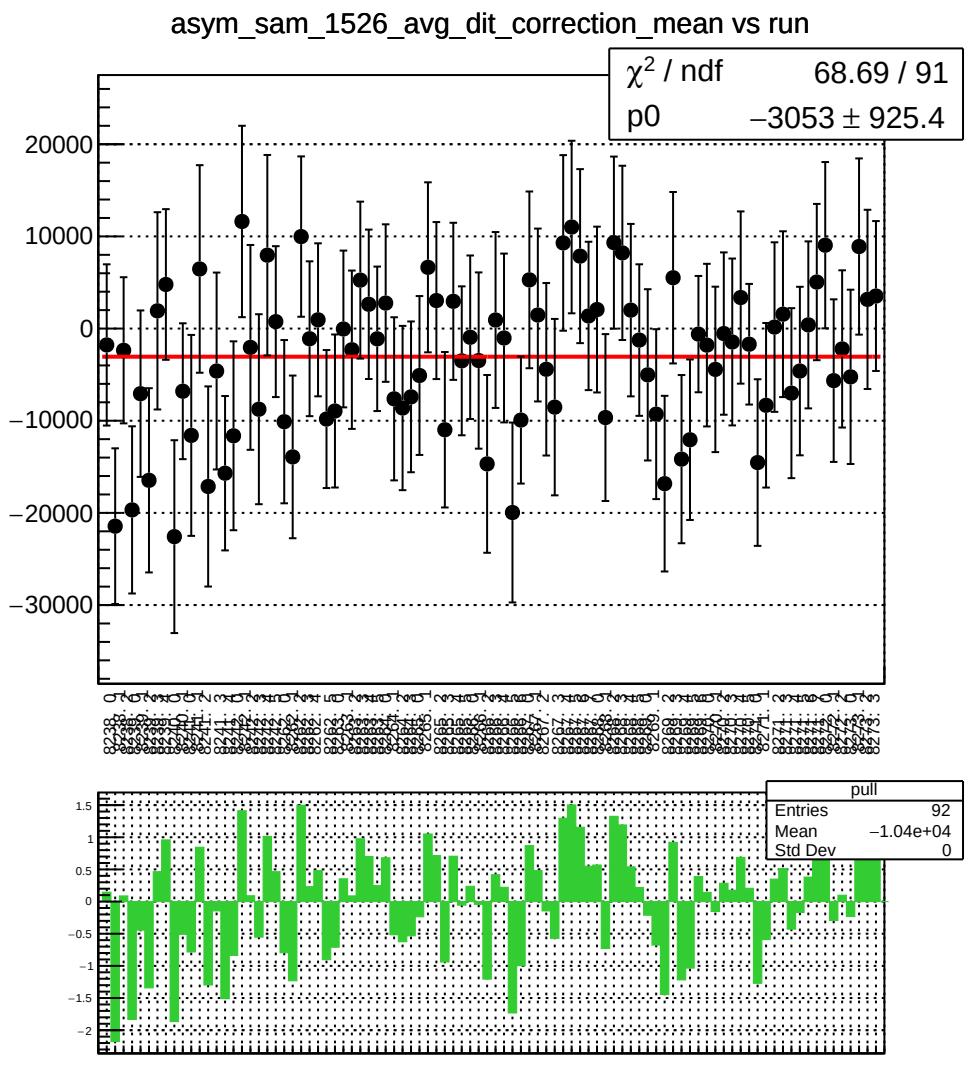

pull1D
Entries 92
Mean −0.004308
Std Dev 0.8633
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

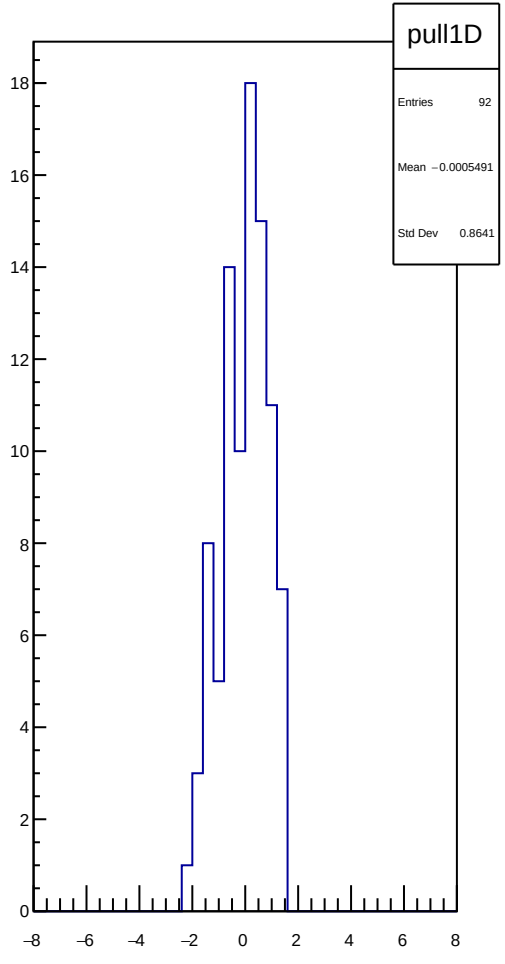

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.198e+04 / 91
p0 856.1 ± 0.6433
1100
1050
1000
950
900
850
800
750

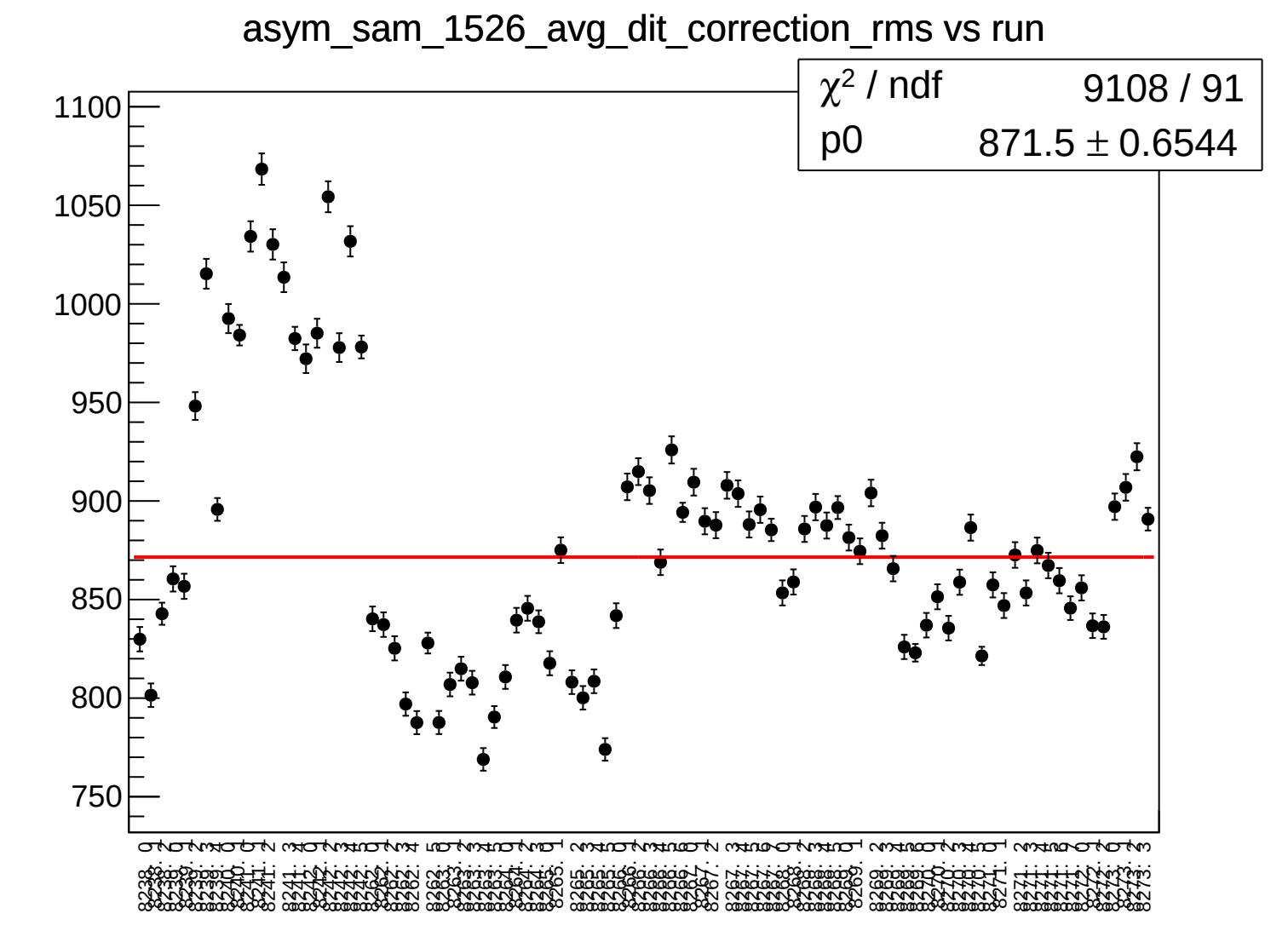

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 93.54 / 91
p0 21.01 ± 96.53
pull
Entries 92
Mean 222.7
Std Dev 0

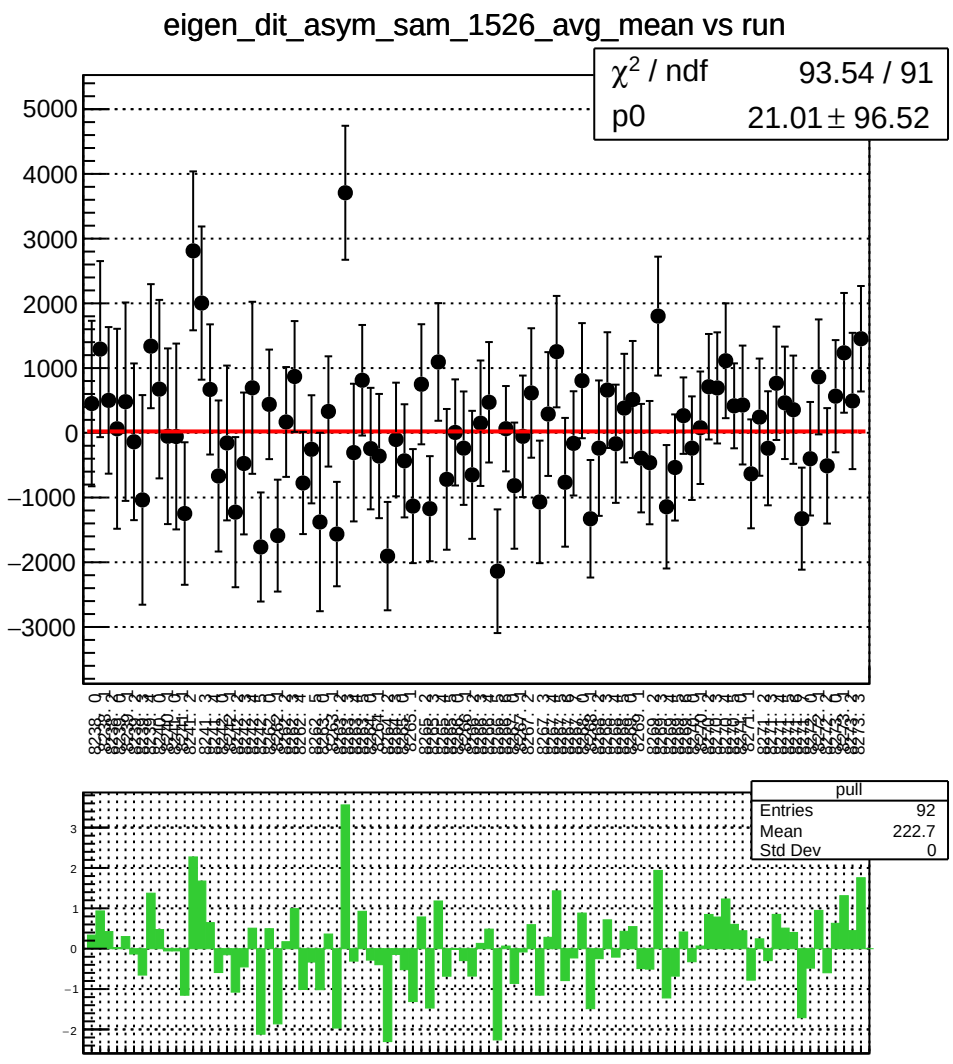

pull1D
Entries 92
Mean 0.01128
Std Dev 1.008

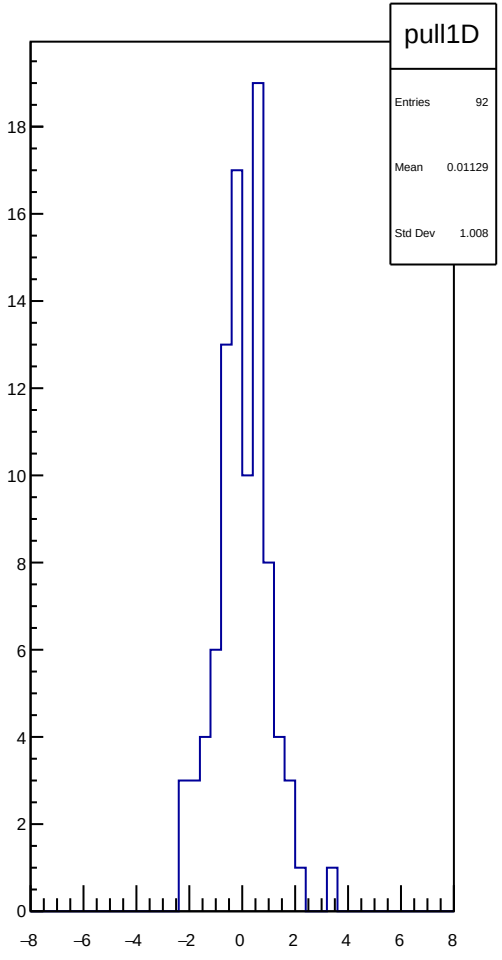

dit_asym_sam_1526_avg_rms vs run
$\chi^2$ / ndf 4.754e+04 / 91
p0 89.91 ± 0.06825
180
160
140
120
100
80

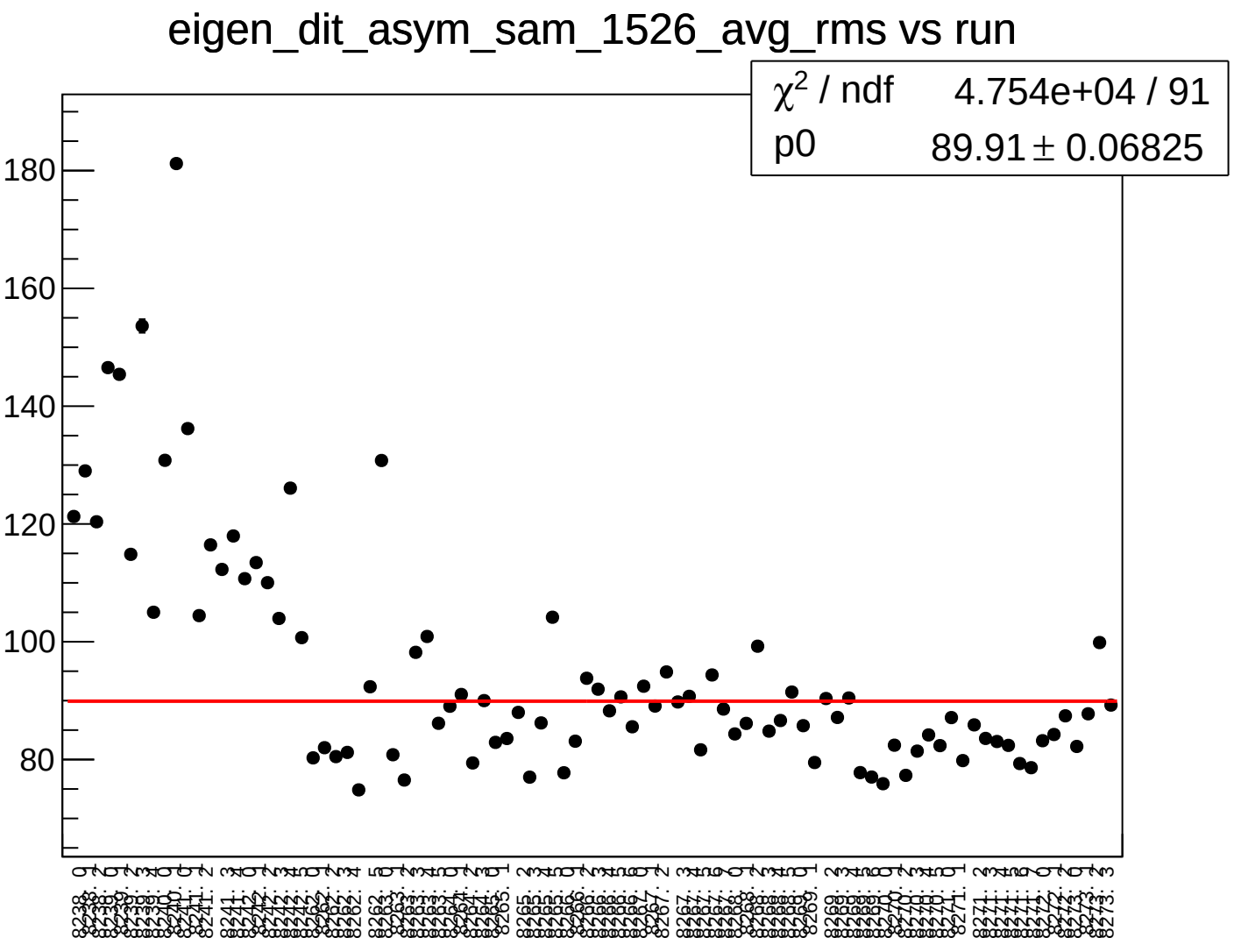

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 68.69 / 91
p0 −3053 ± 925.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1.04e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

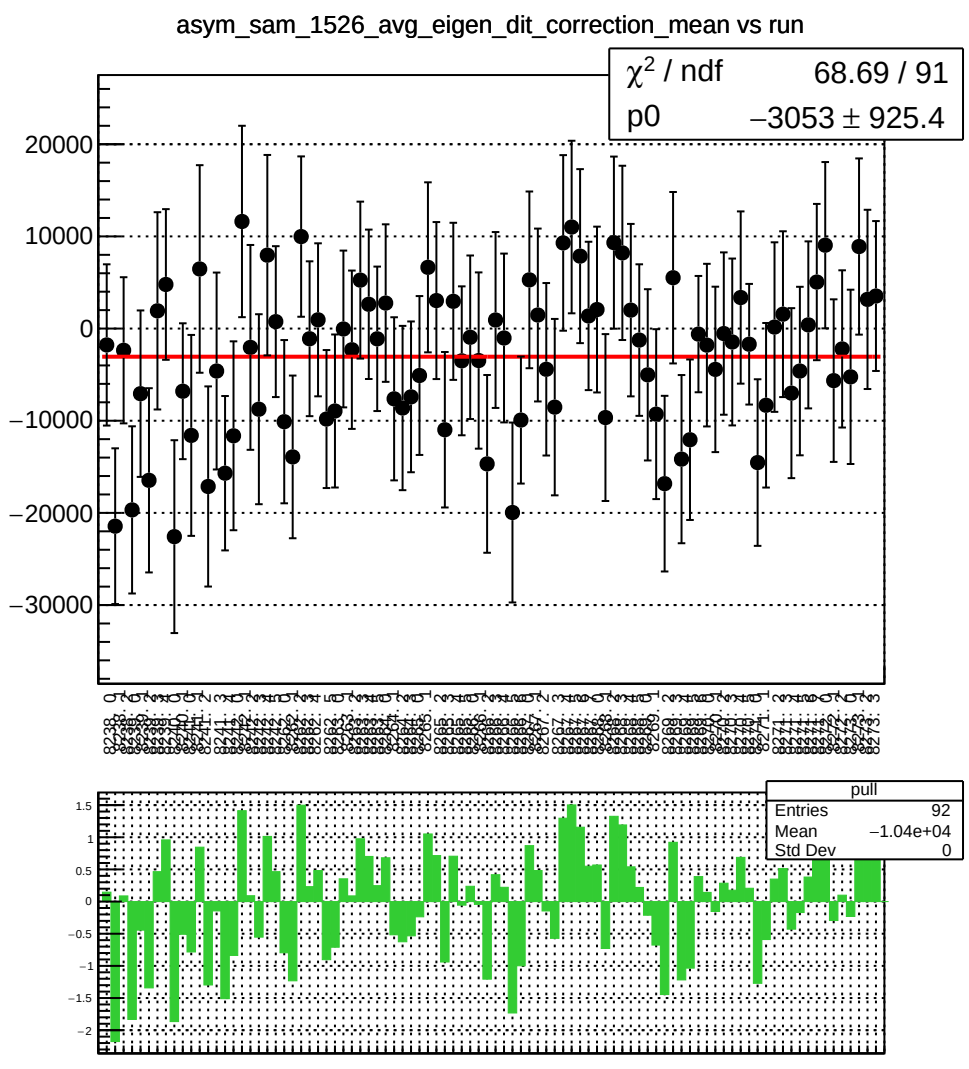

pull1D
Entries 92
Mean −0.0005491
Std Dev 0.8641
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

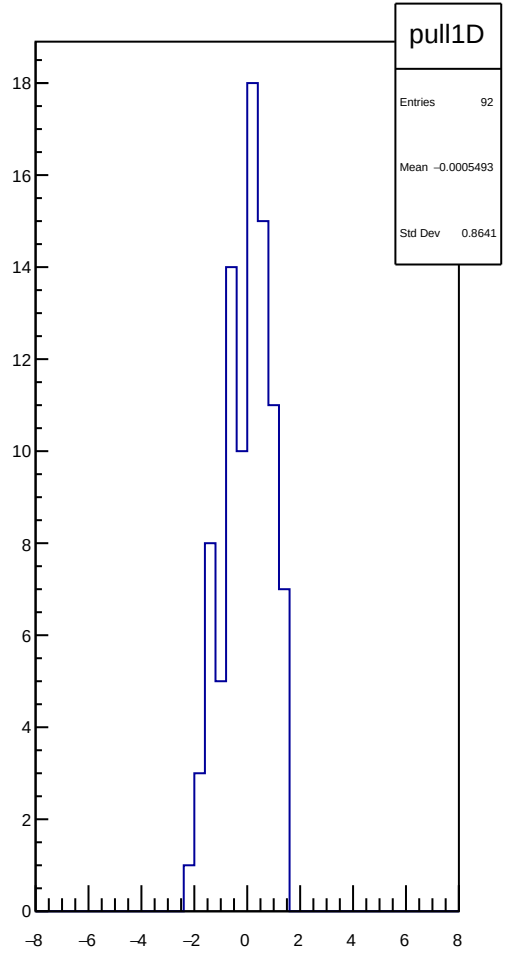

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 9108 / 91
p0 871.5 ± 0.6544
1100
1050
1000
950
900
850
800
750

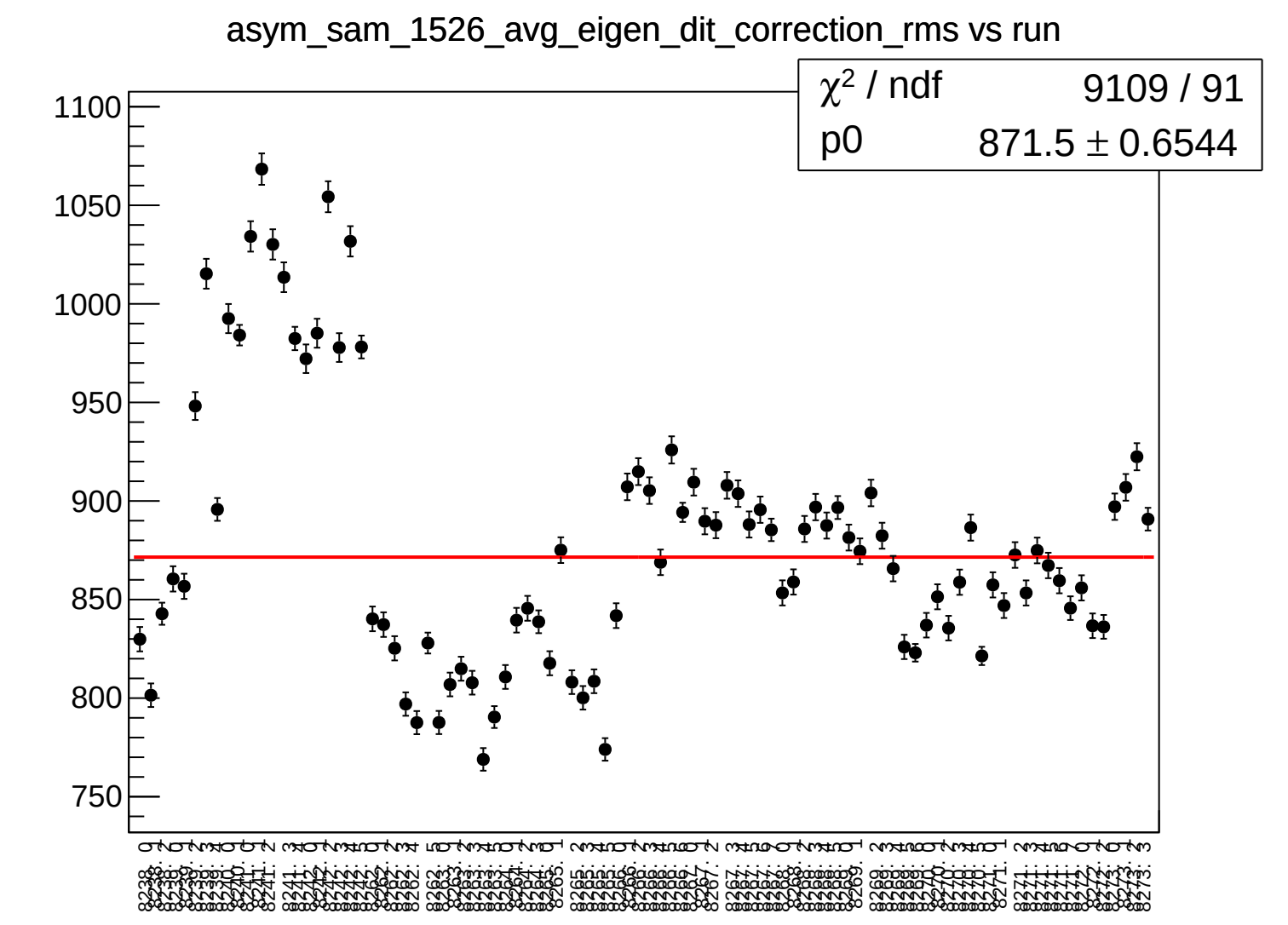

eigen_dit_asym_sam_1526_avg_mean vs run
$\chi^2$ / ndf 93.54 / 91
p0 21.01 ± 96.52
pull
Entries 92
Mean 222.7
Std Dev 0

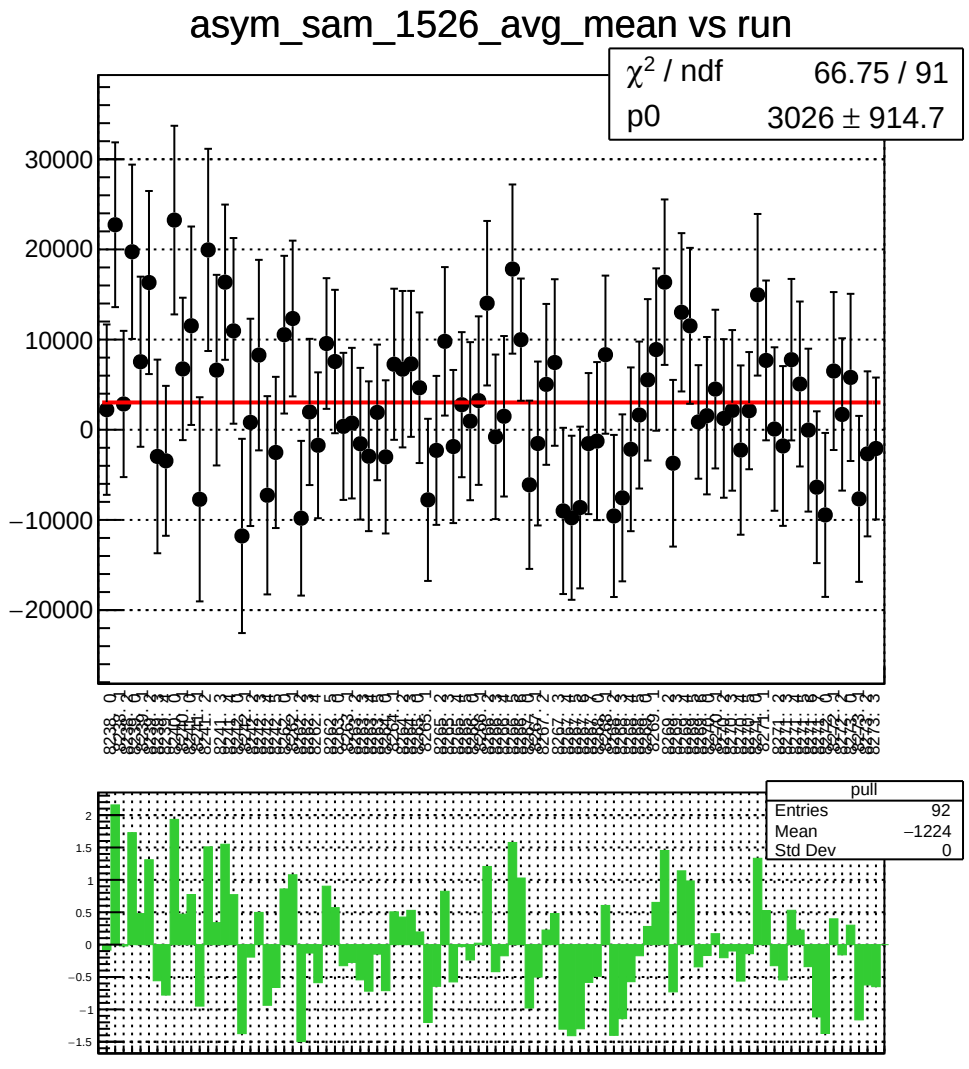

pull1D
Entries 92
Mean 0.01129
Std Dev 1.008

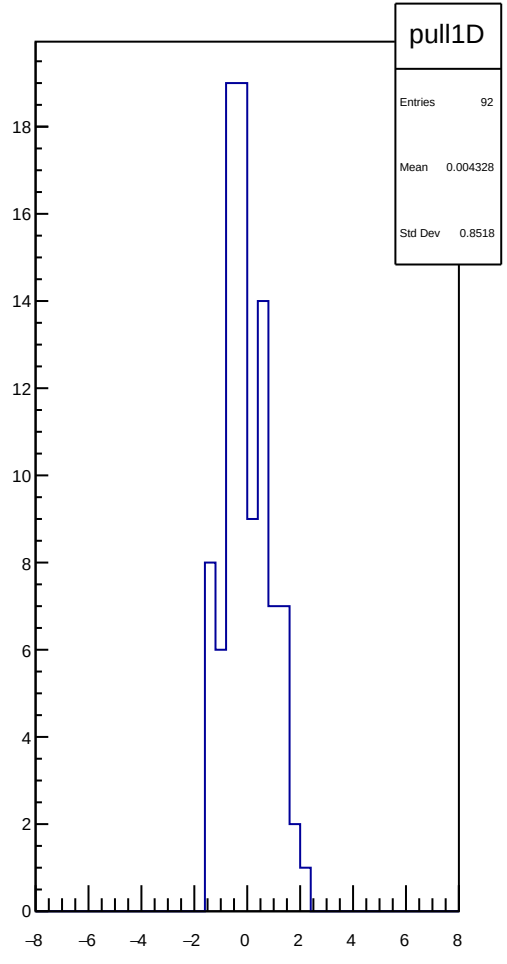

eigen_dit_asym_sam_1526_avg_rms vs run
$\chi^2$ / ndf 4.754e+04 / 91
p0 89.91 ± 0.06825
180
160
140
120
100
80

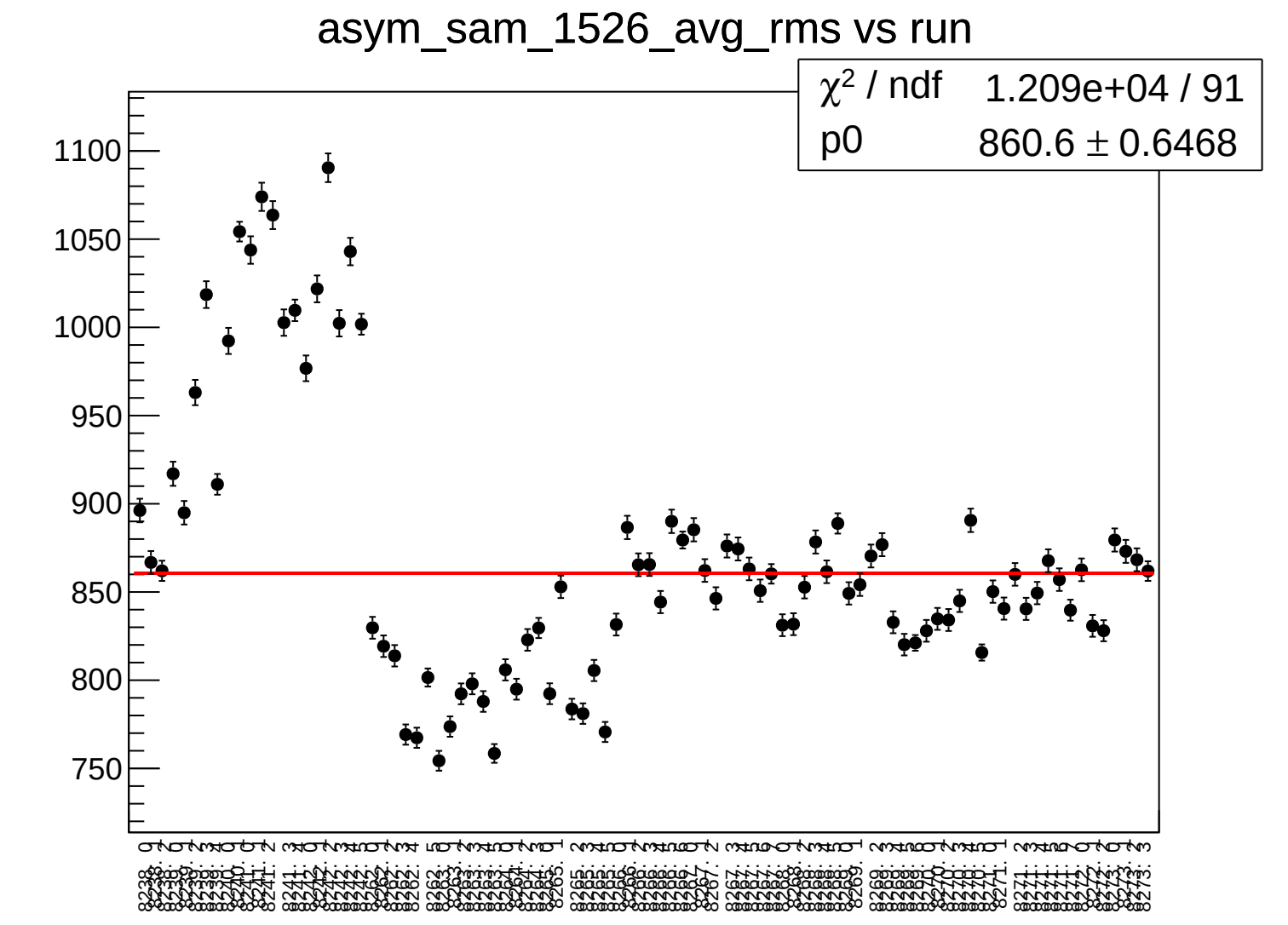

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 68.69 / 91
p0 −3053 ± 925.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1.04e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

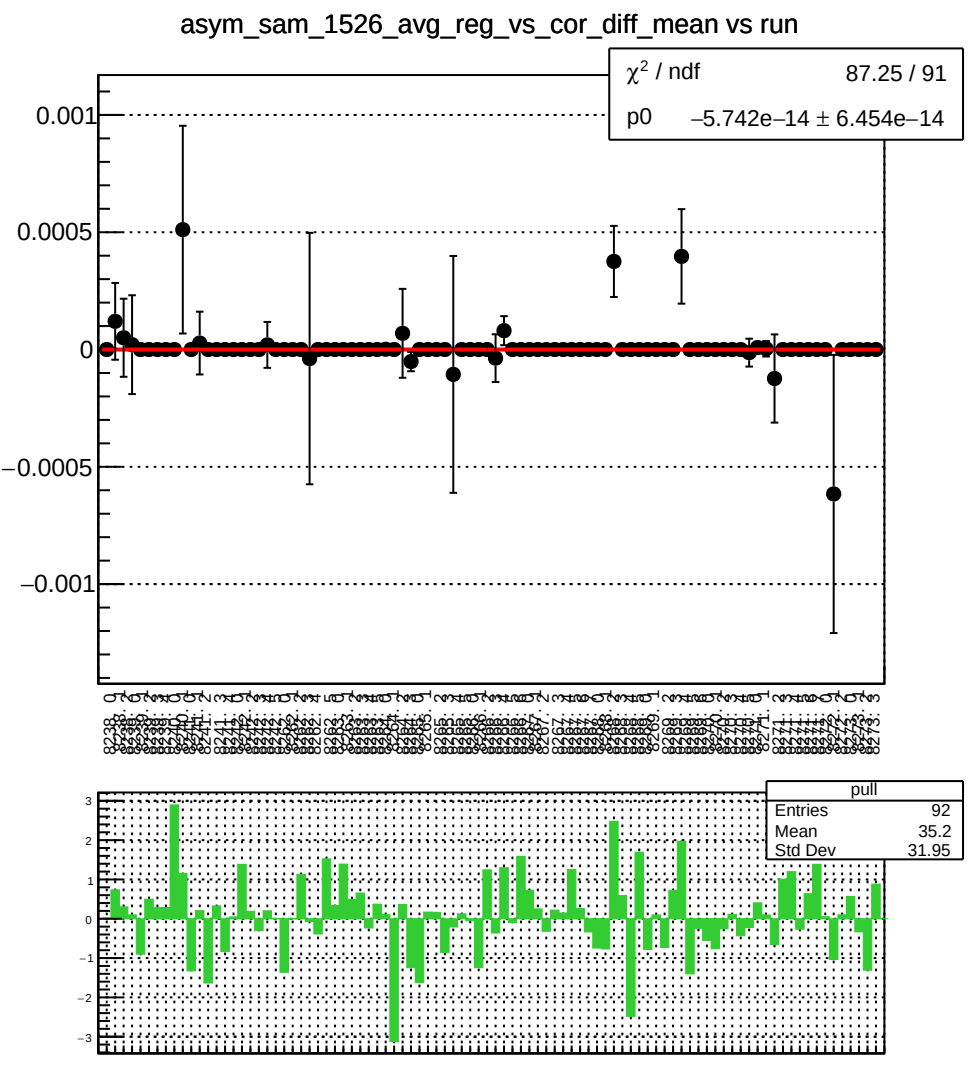

pull1D
Entries 92
Mean −0.0005493
Std Dev 0.8641
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

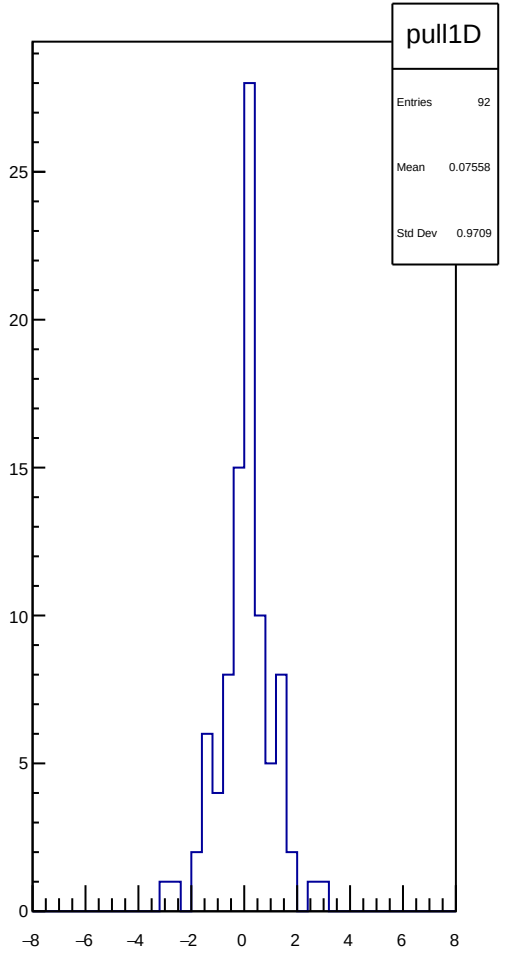

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 9109 / 91
p0 871.5 ± 0.6544
1100
1050
1000
950
900
850
800
750

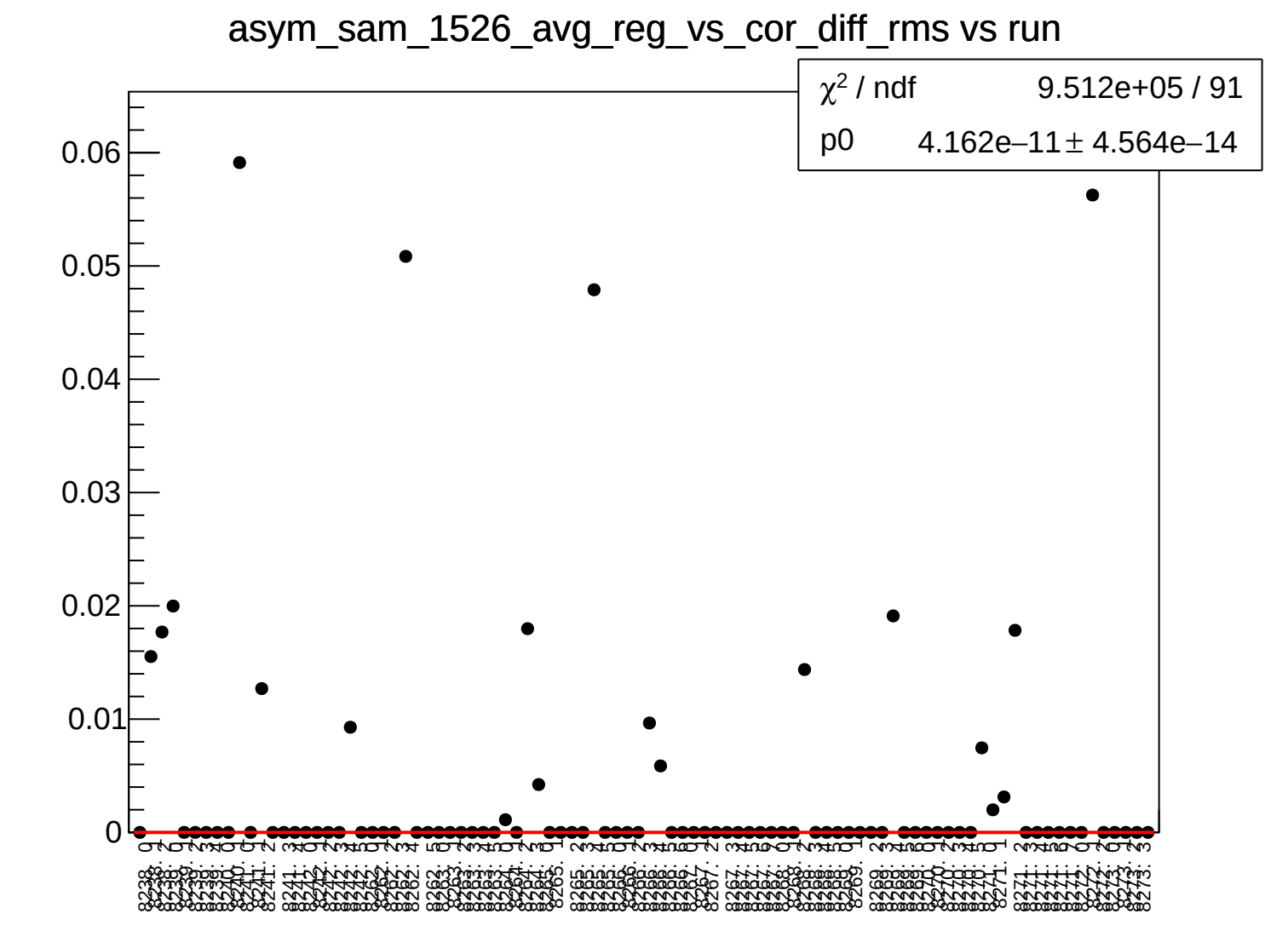

asym_sam_1526_avg_mean vs run
χ² / ndf 66.75 / 91
p0 3026 ± 914.7
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −1224
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

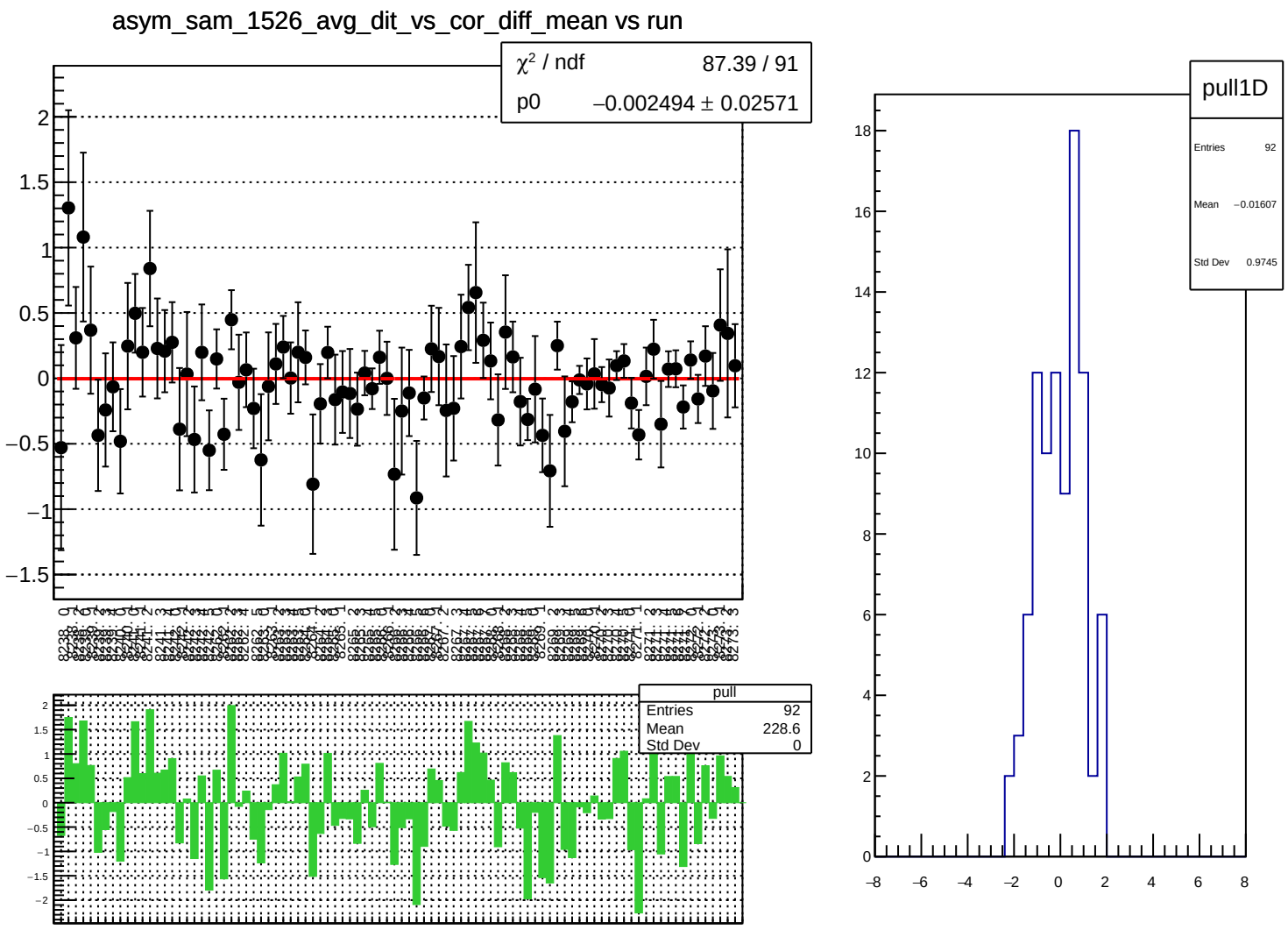

pull1D
Entries 92
Mean 0.004328
Std Dev 0.8518
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

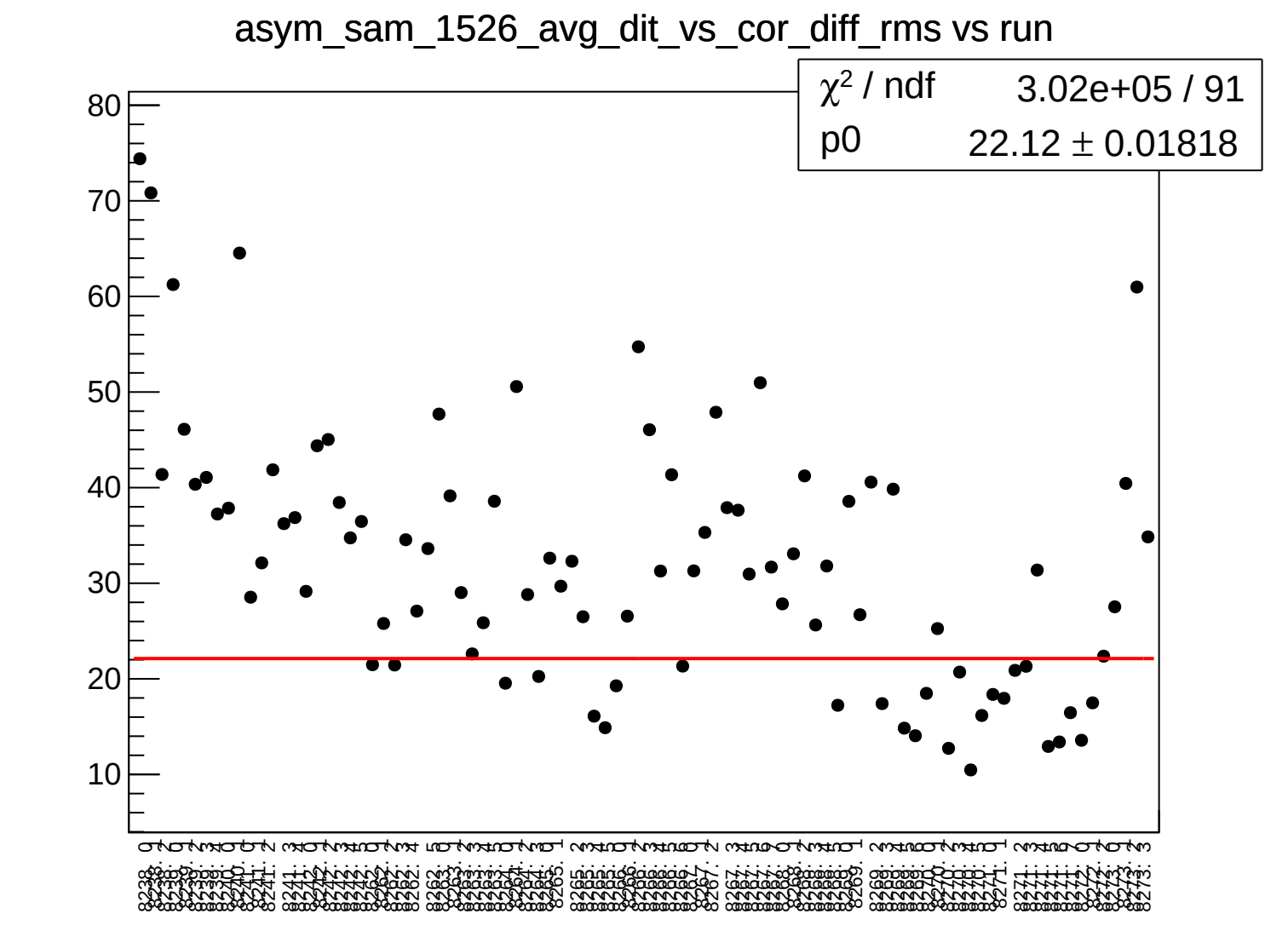

asym_sam_1526_avg_rms vs run
χ² / ndf 1.209e+04 / 91
p0 860.6 ± 0.6468
1100
1050
1000
950
900
850
800
750

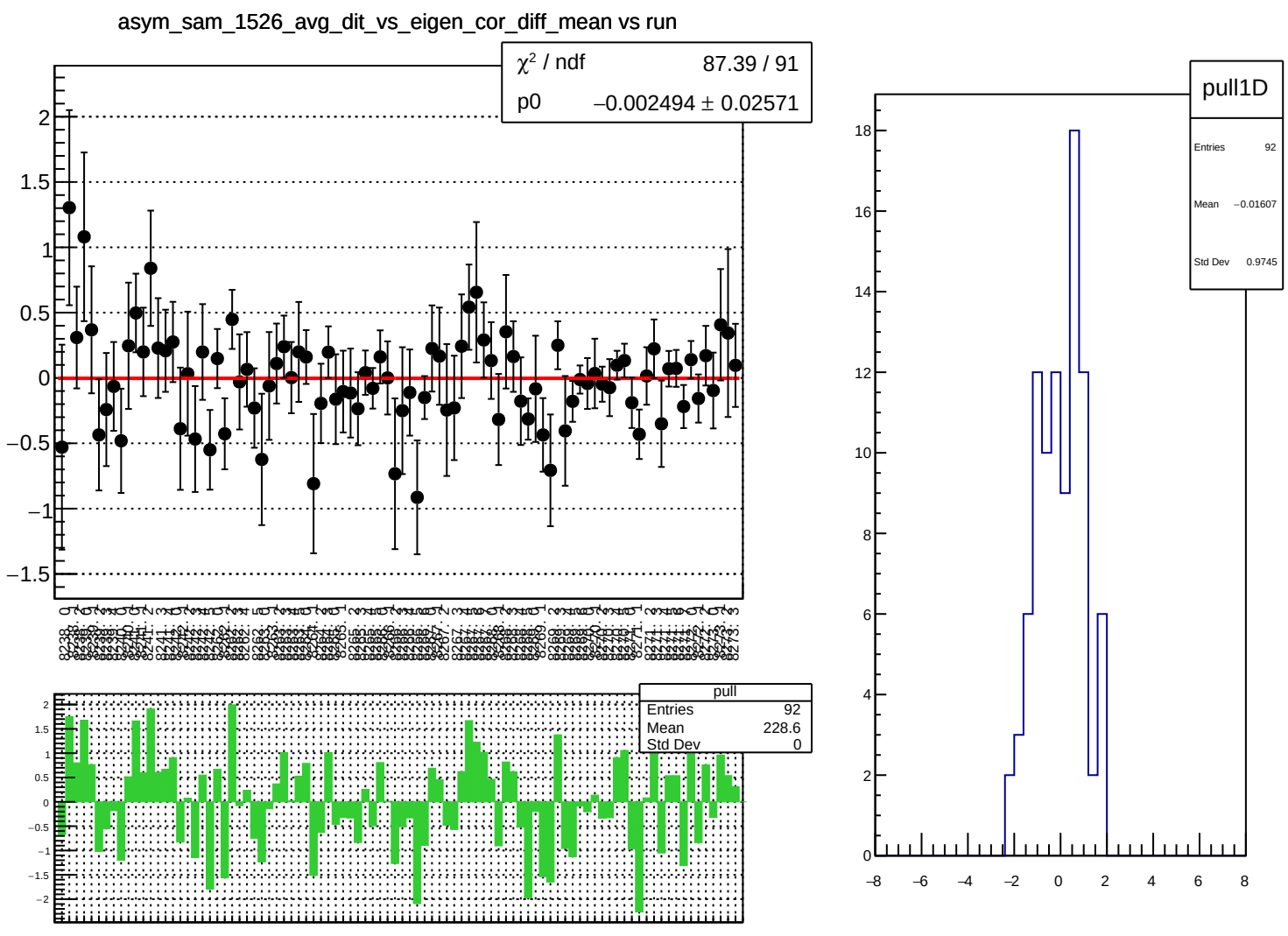

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.25 / 91
p0 −5.742e−14 ± 6.454e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 35.2
Std Dev 31.95
3
2
1
0
−1
−2
−3

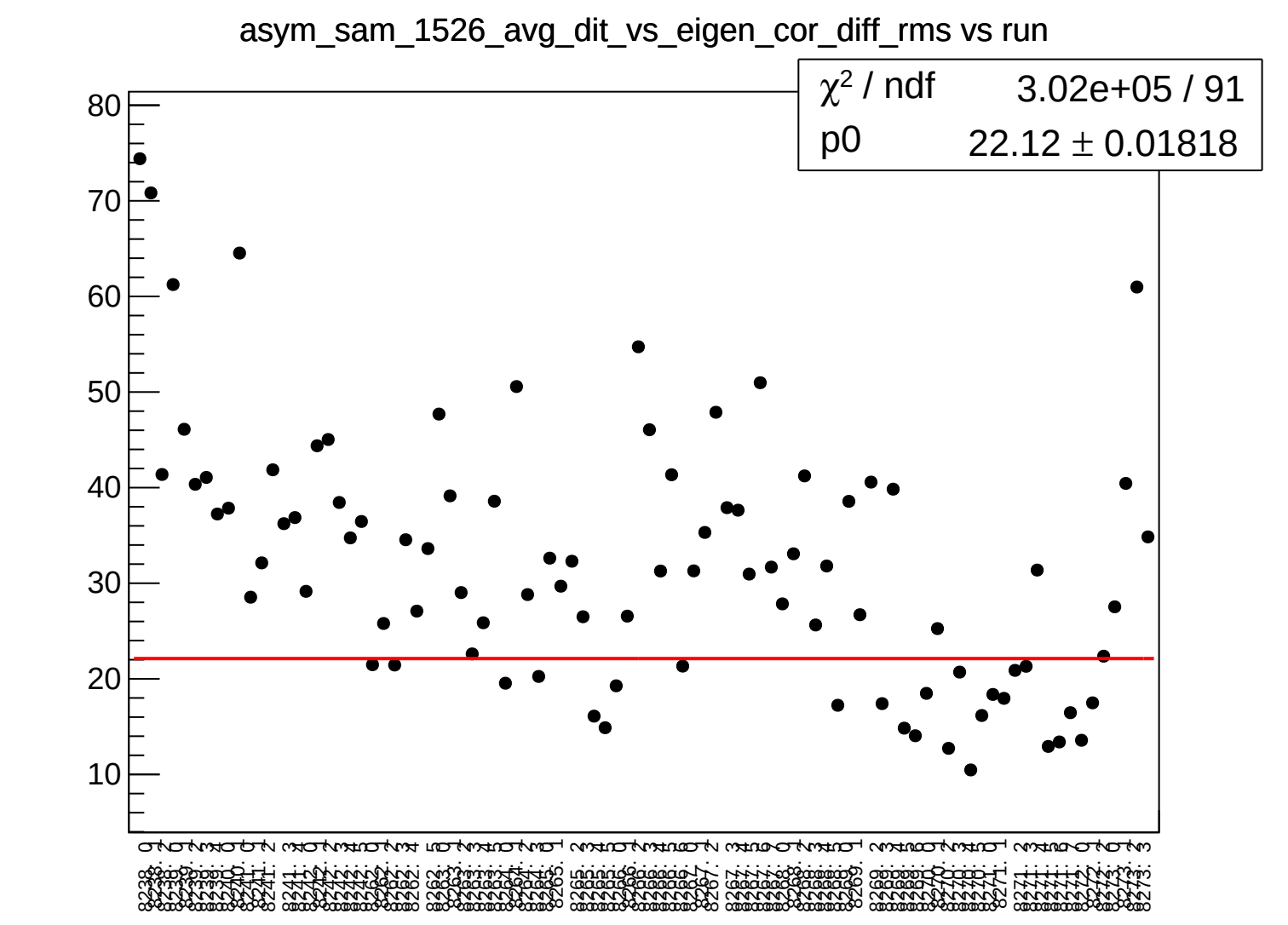

pull1D
Entries 92
Mean 0.07558
Std Dev 0.9709
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

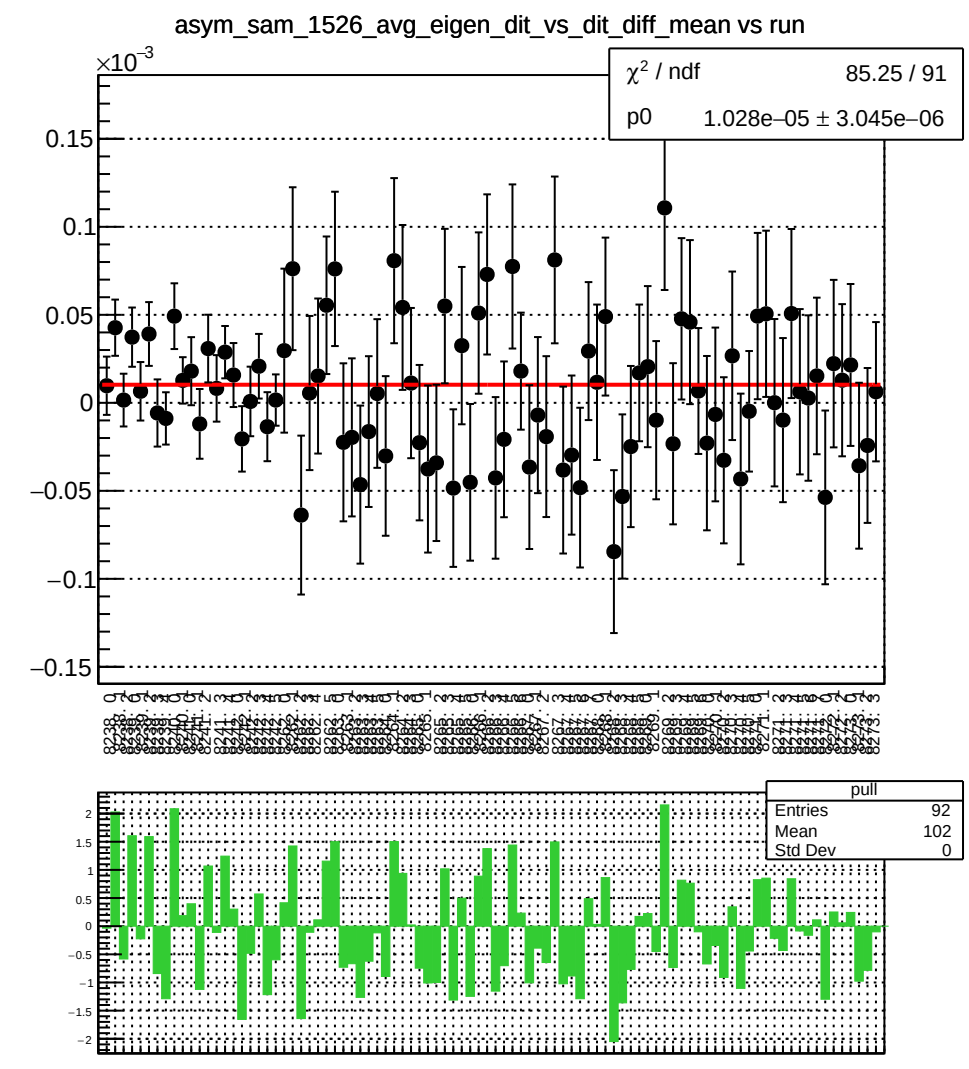

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.512e+05 / 91
p0 4.162e−11 ± 4.564e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

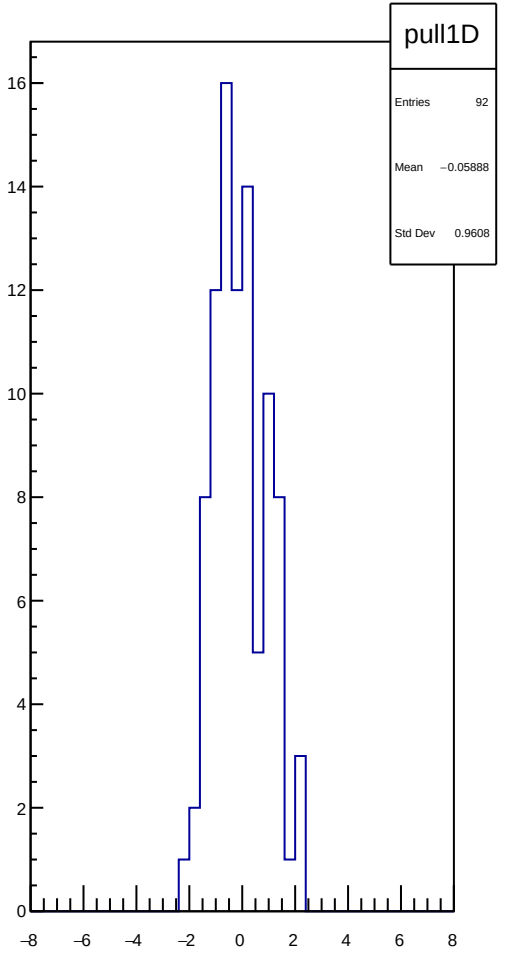

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.39 / 91
p0 −0.002494 ± 0.02571
pull
Entries 92
Mean 228.6
Std Dev 0
pull1D
Entries 92
Mean −0.01607
Std Dev 0.9745

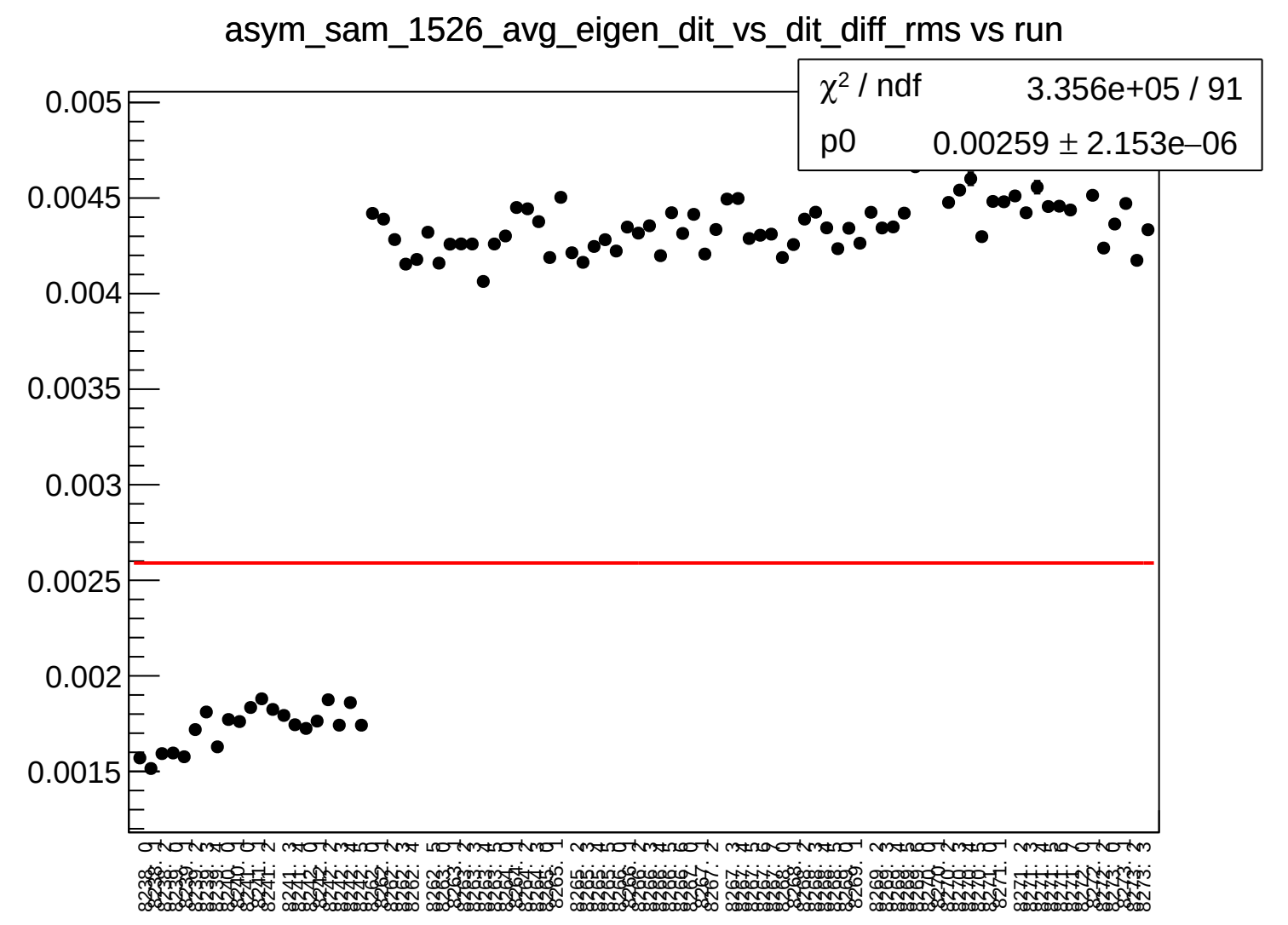

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.02e+05 / 91
p0 22.12 ± 0.01818
80
70
60
50
40
30
20
10

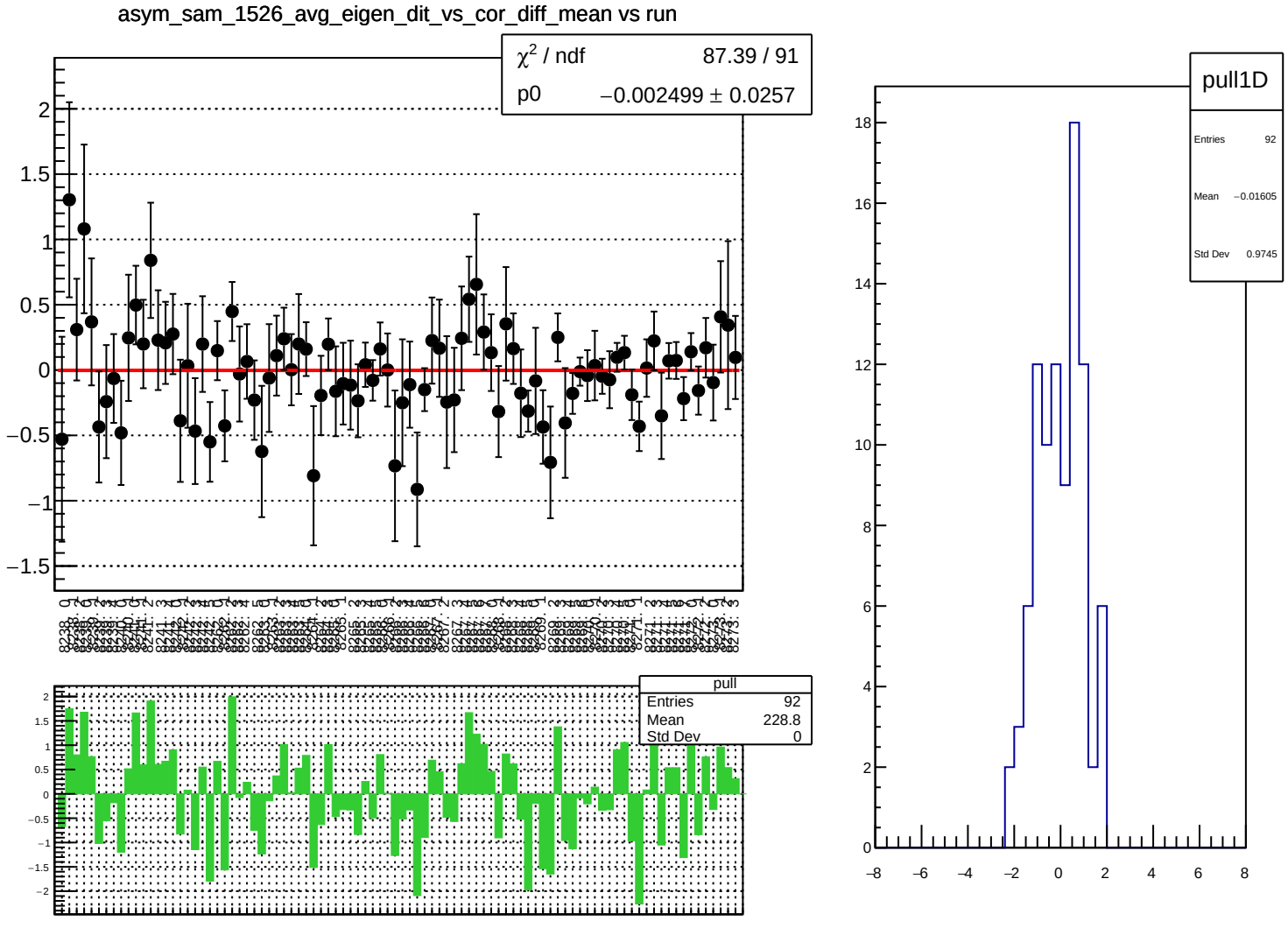

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.39 / 91
p0 −0.002494 ± 0.02571
pull
Entries 92
Mean 228.6
Std Dev 0
pull1D
Entries 92
Mean −0.01607
Std Dev 0.9745

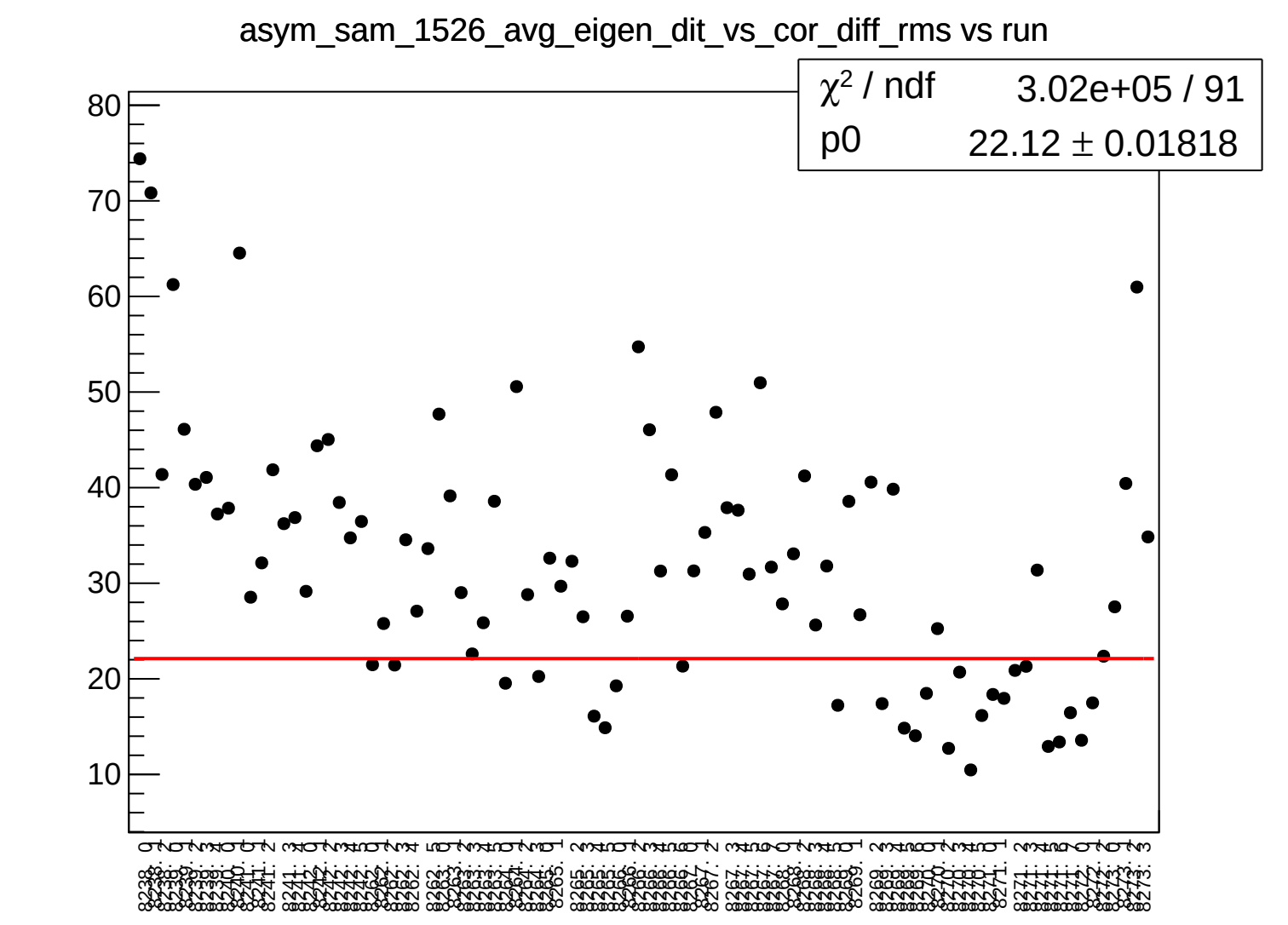

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.02e+05 / 91
p0 22.12 ± 0.01818
80
70
60
50
40
30
20
10

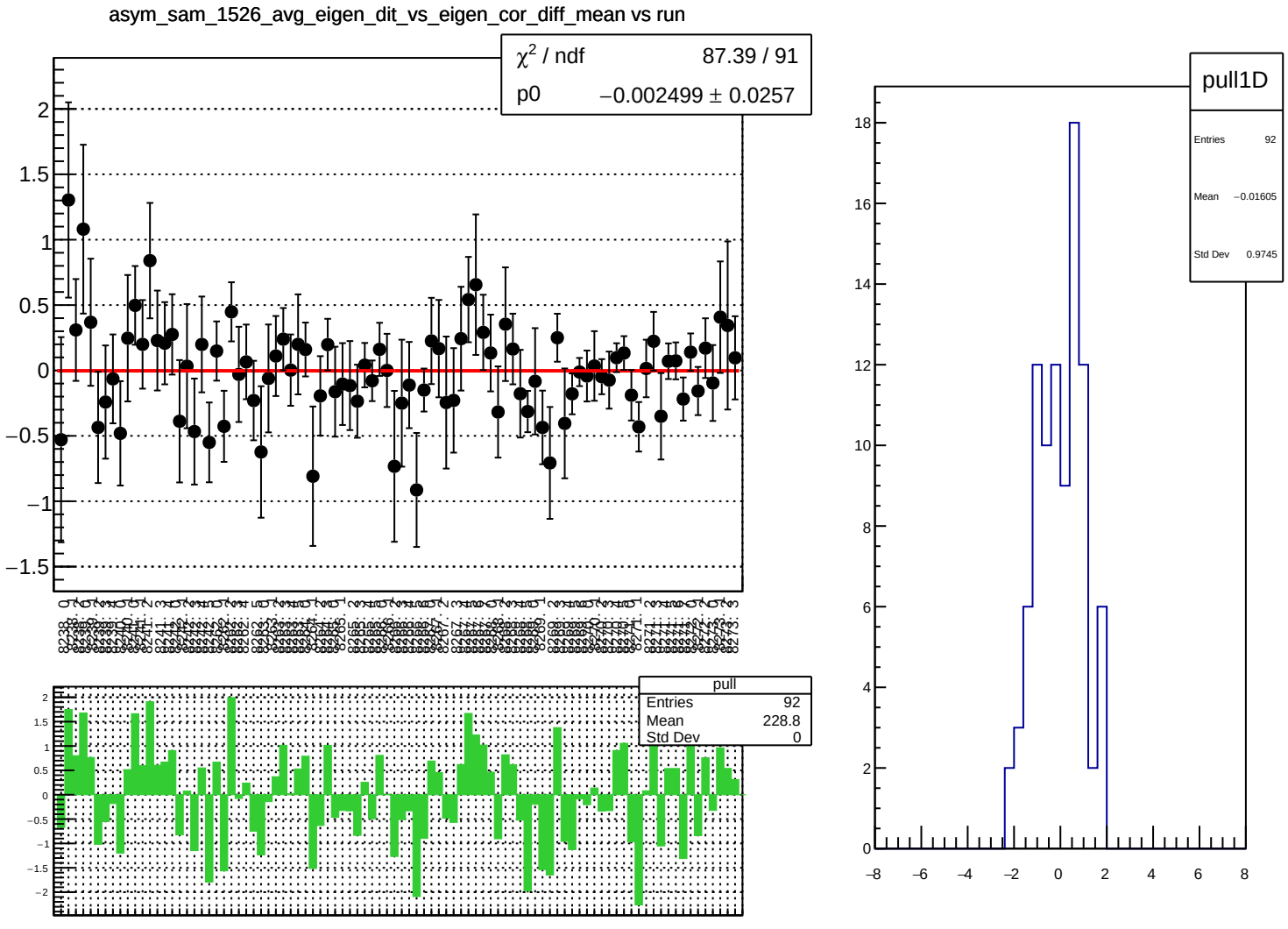

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.25 / 91
p0 1.028e−05 ± 3.045e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean 102
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

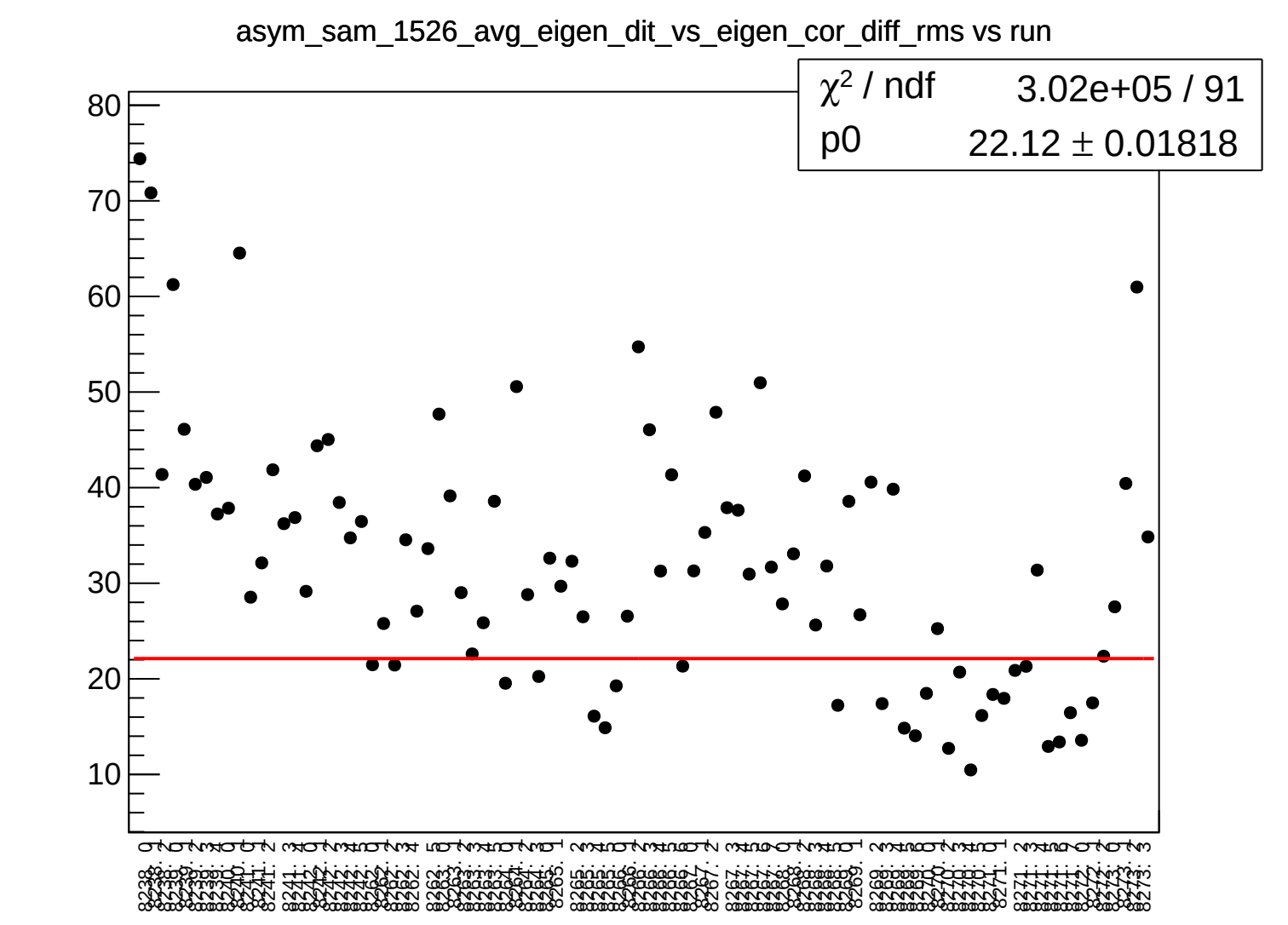

pull1D
Entries 92
Mean −0.05888
Std Dev 0.9608
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

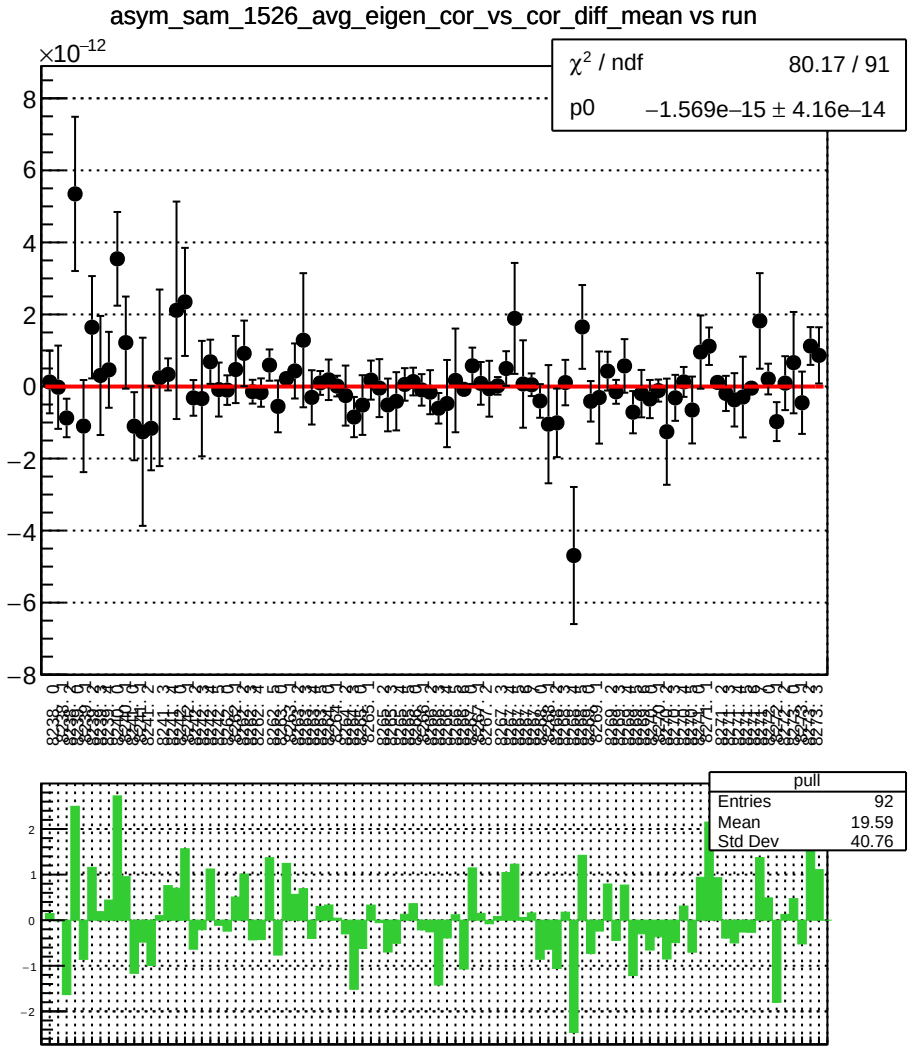

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.356e+05 / 91
p0 0.00259 ± 2.153e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

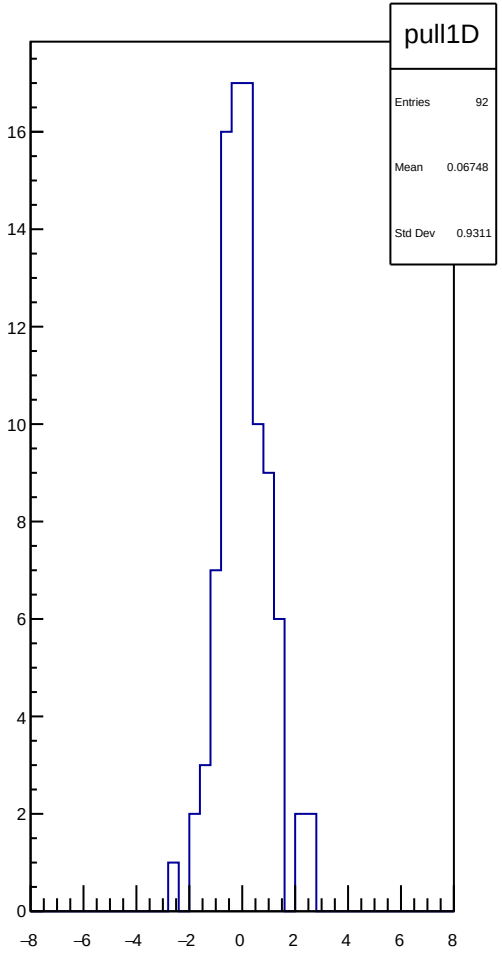

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.39 / 91
p0 −0.002499 ± 0.0257
pull
Entries 92
Mean 228.8
Std Dev 0
pull1D
Entries 92
Mean −0.01605
Std Dev 0.9745

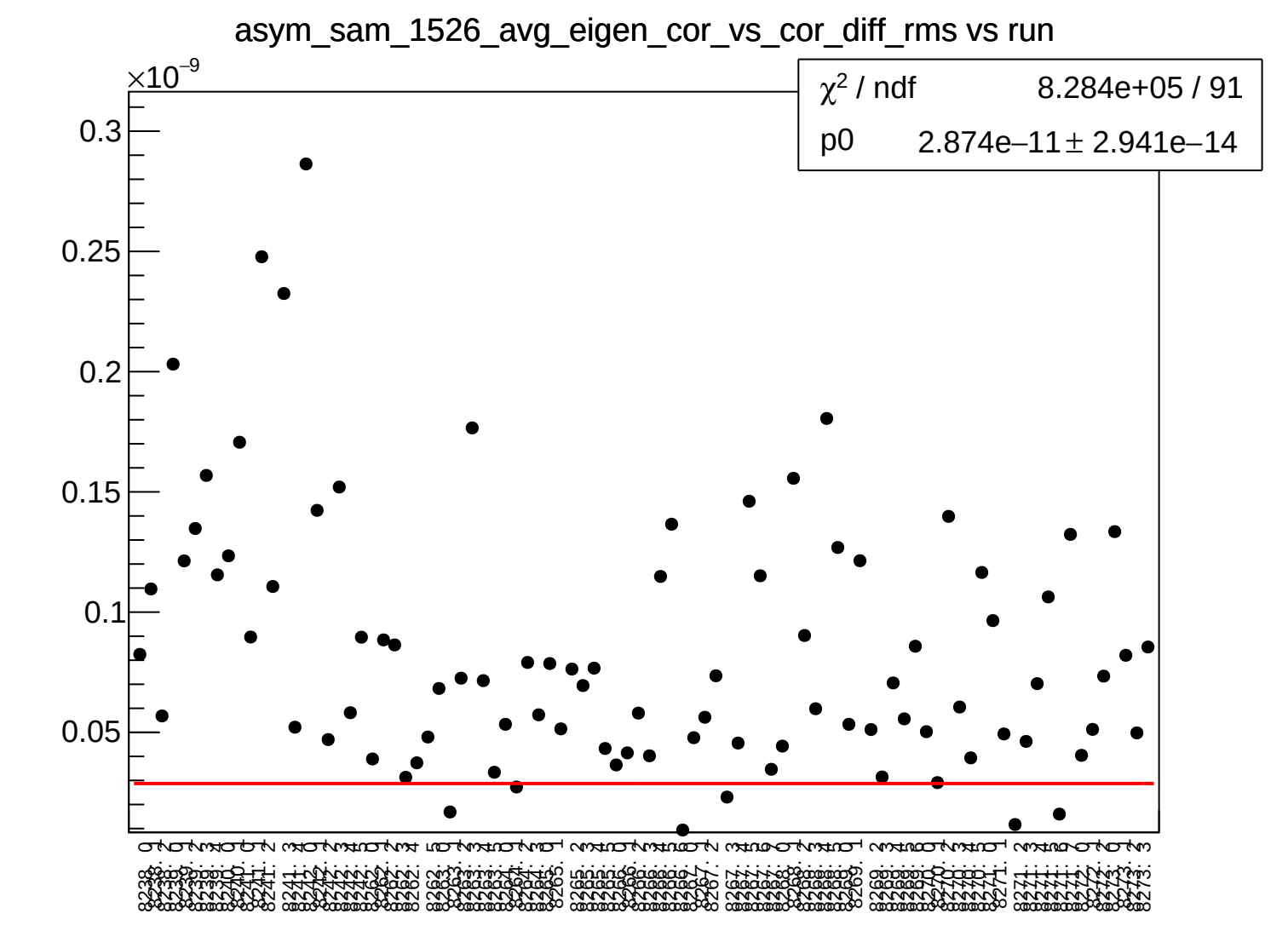

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.02e+05 / 91
p0 22.12 ± 0.01818
80
70
60
50
40
30
20
10

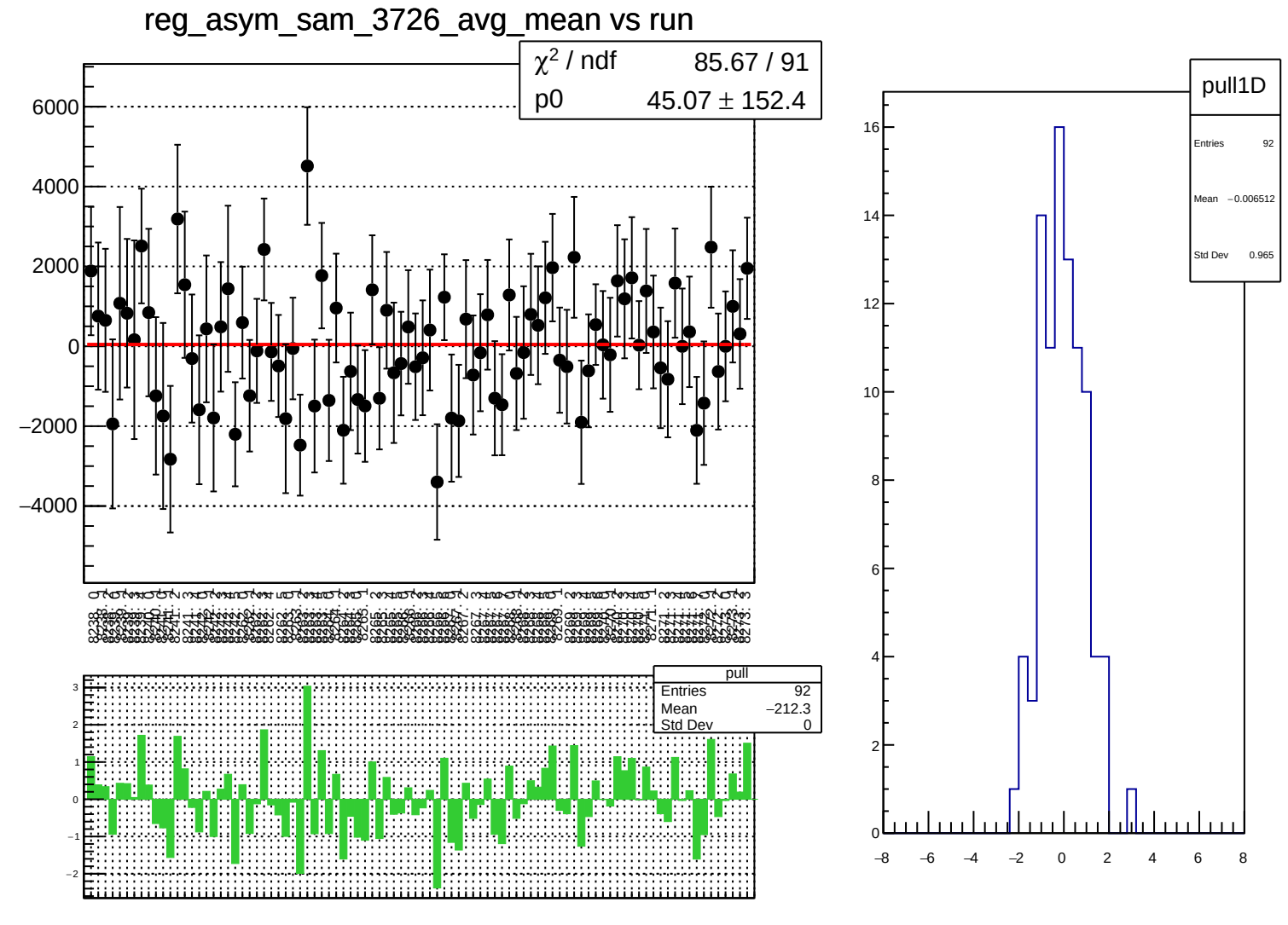

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.39 / 91
p0 −0.002499 ± 0.0257
pull
Entries 92
Mean 228.8
Std Dev 0
pull1D
Entries 92
Mean −0.01605
Std Dev 0.9745

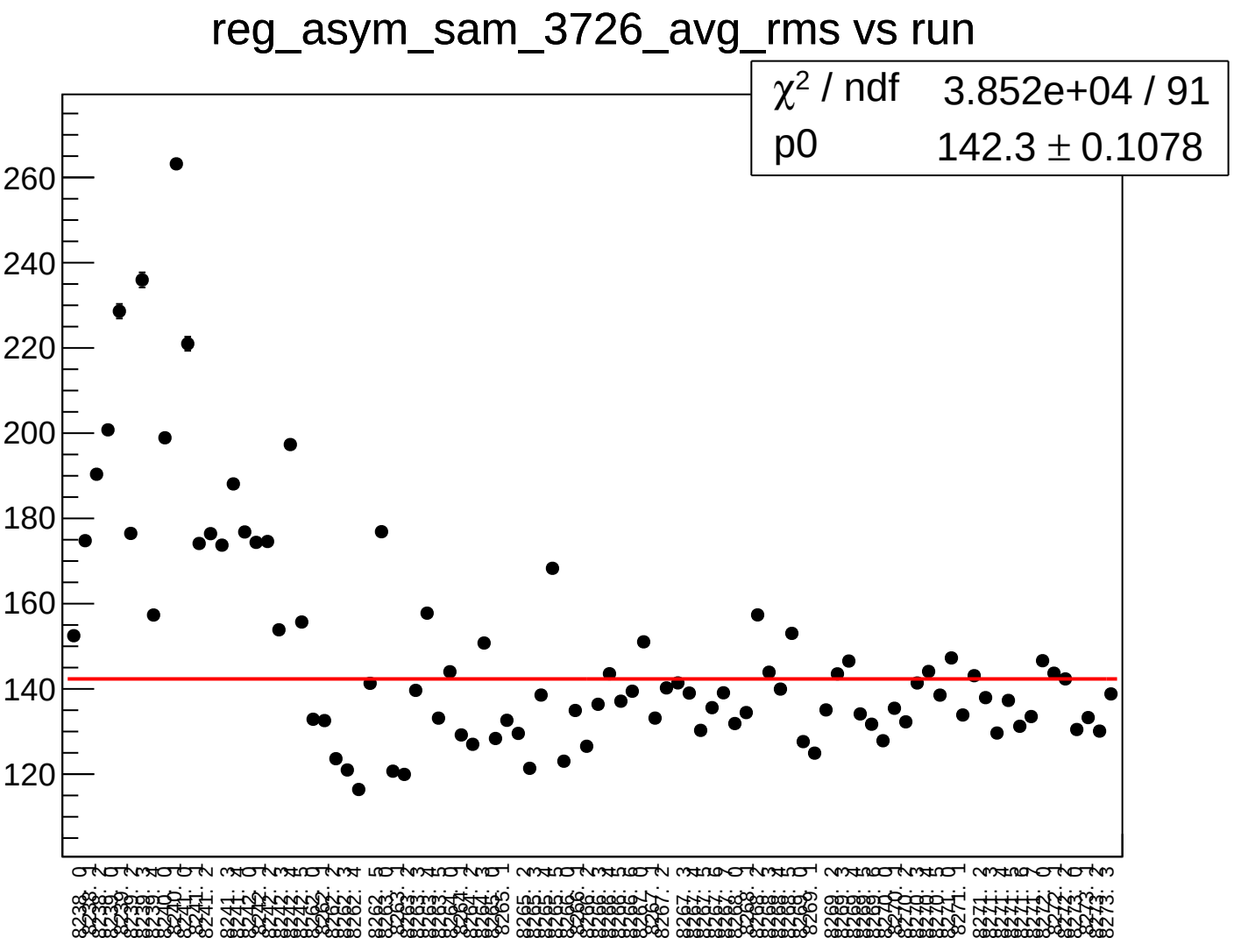

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.02e+05 / 91
p0 22.12 ± 0.01818
80
70
60
50
40
30
20
10

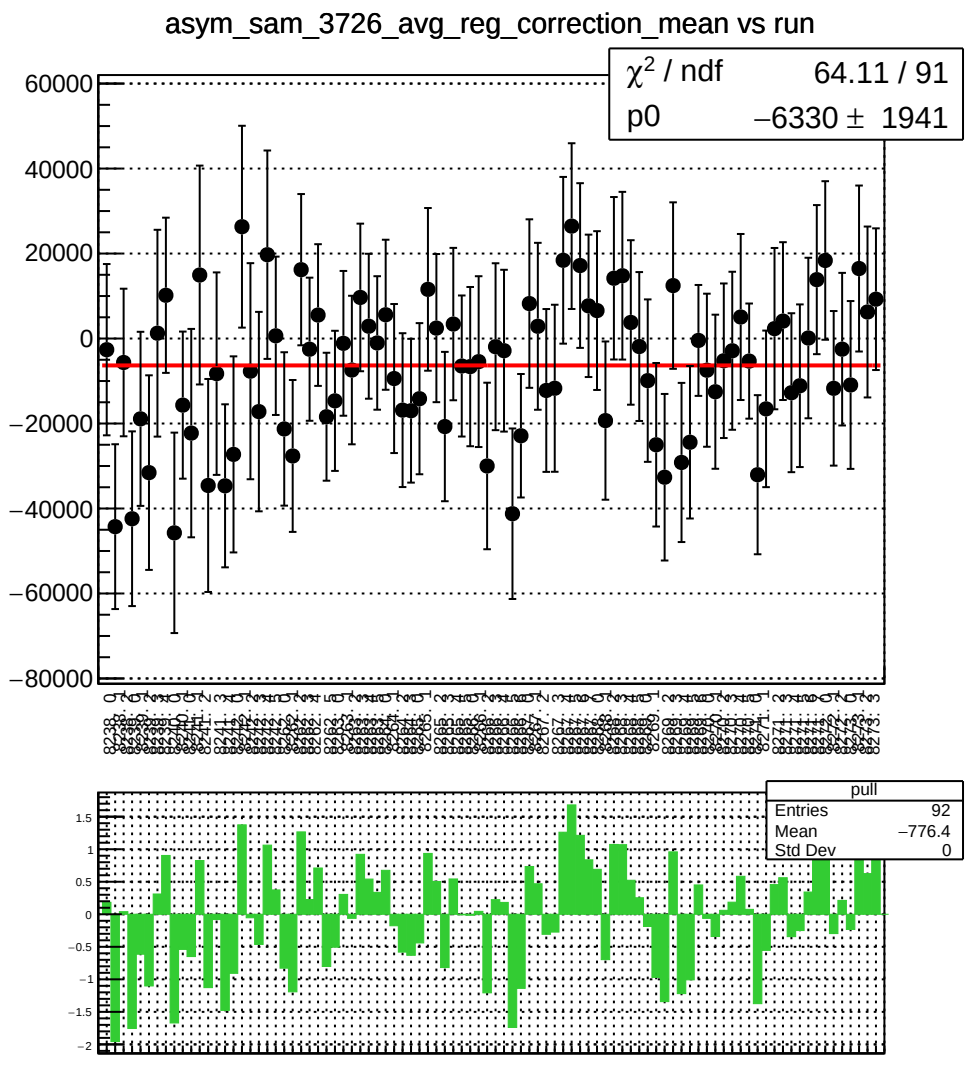

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.17 / 91
p0 −1.569e−15 ± 4.16e−14
pull
Entries 92
Mean 19.59
Std Dev 40.76

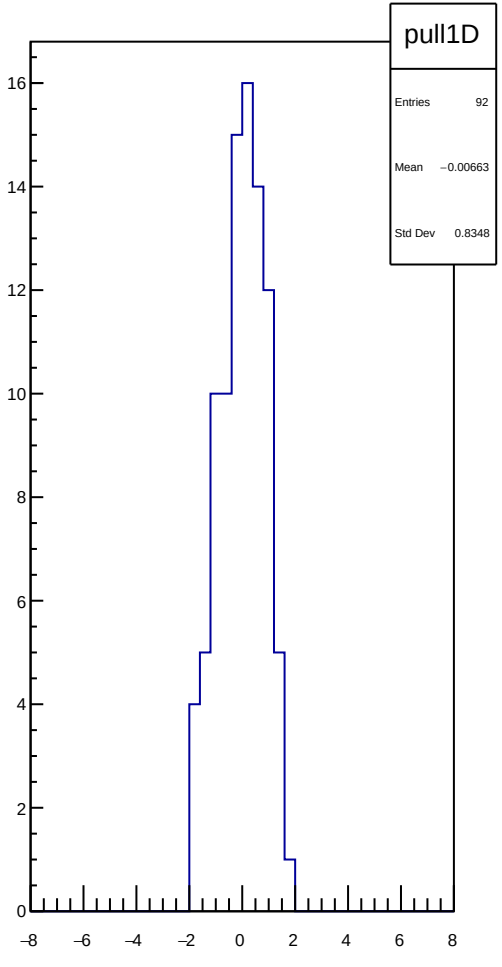

pull1D
Entries 92
Mean 0.06748
Std Dev 0.9311

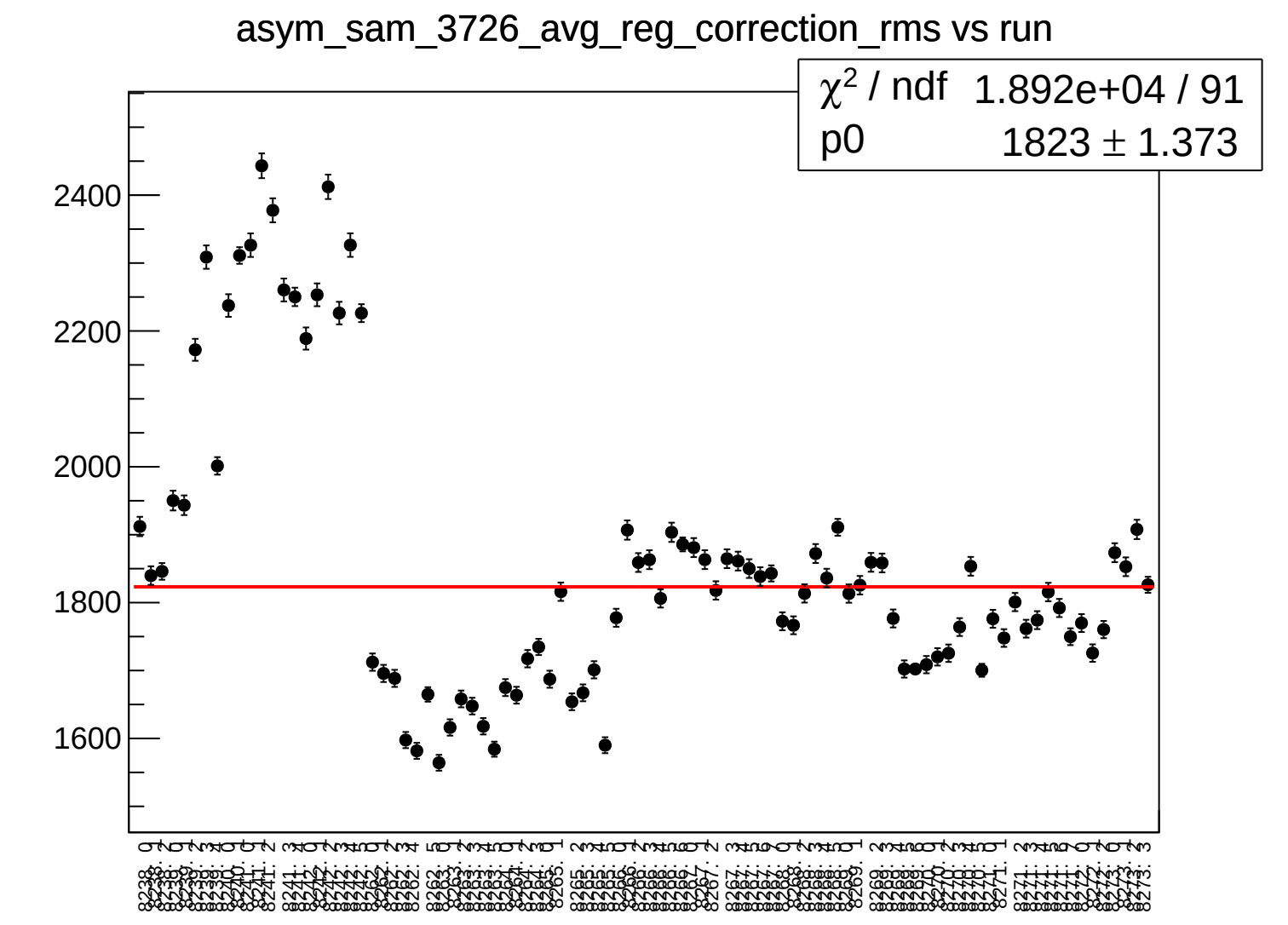

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.284e+05 / 91
p0 2.874e−11 ± 2.941e−14
0.3
0.25
0.2
0.15
0.1
0.05

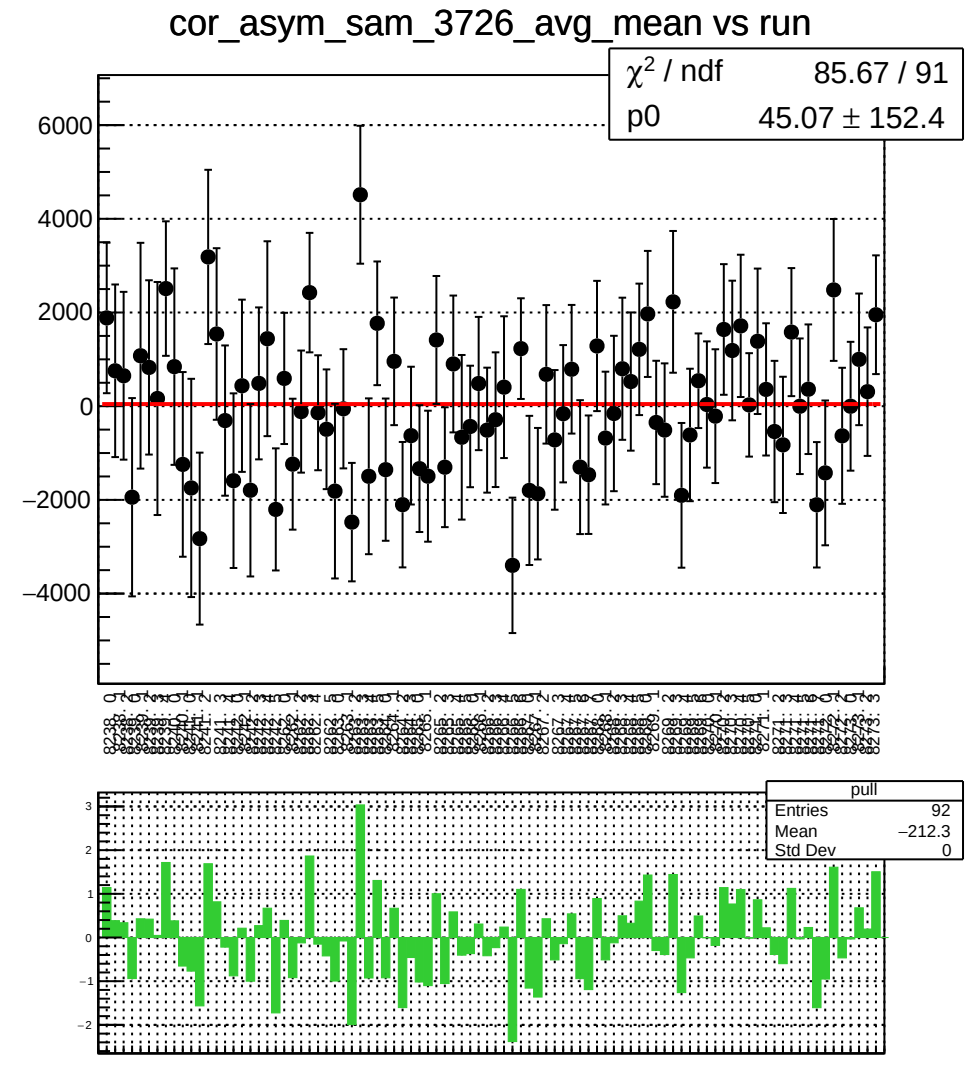

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 85.67 / 91
p0 45.07 ± 152.4
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −212.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.006512
Std Dev 0.965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

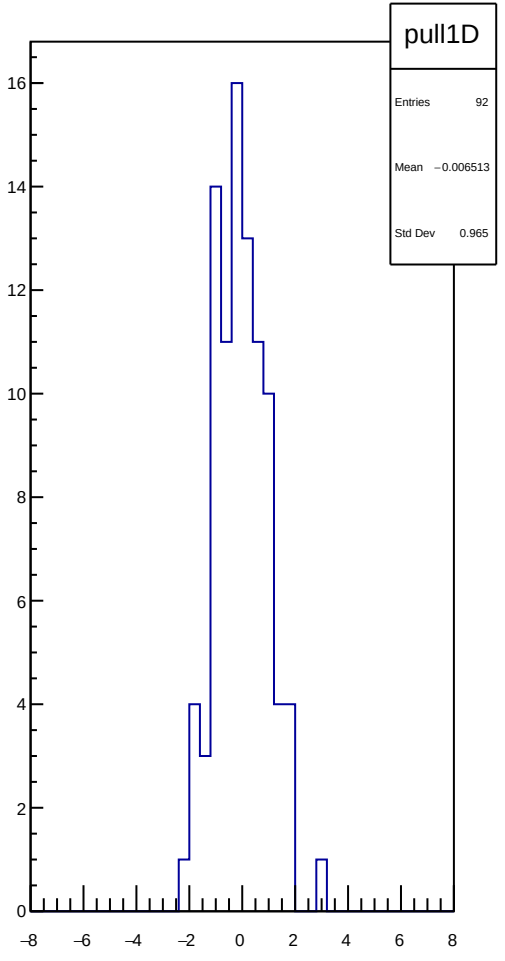

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 3.852e+04 / 91
p0 142.3 ± 0.1078
260
240
220
200
180
160
140
120

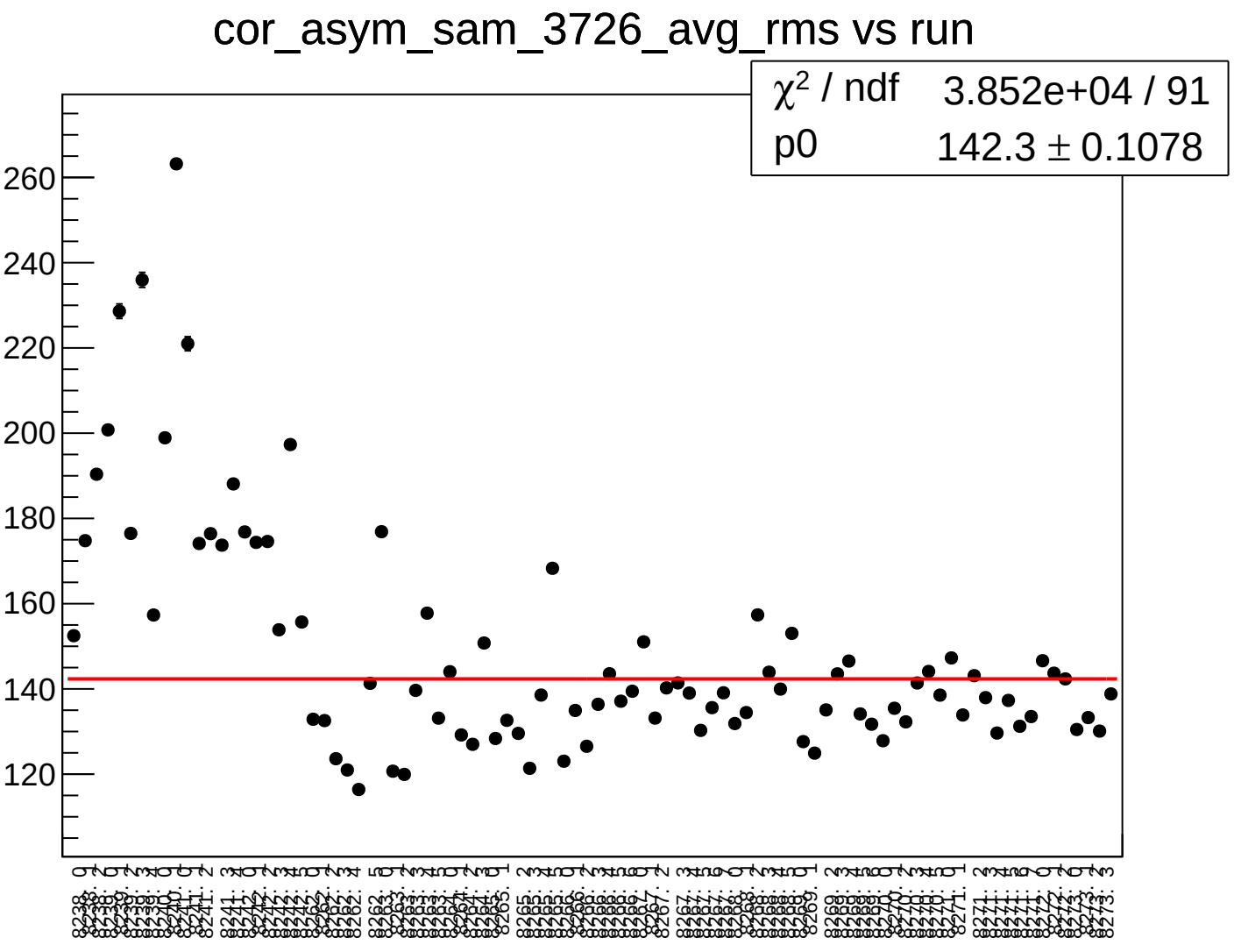

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 64.11 / 91
p0 −6330 ± 1941
pull
Entries 92
Mean −776.4
Std Dev 0

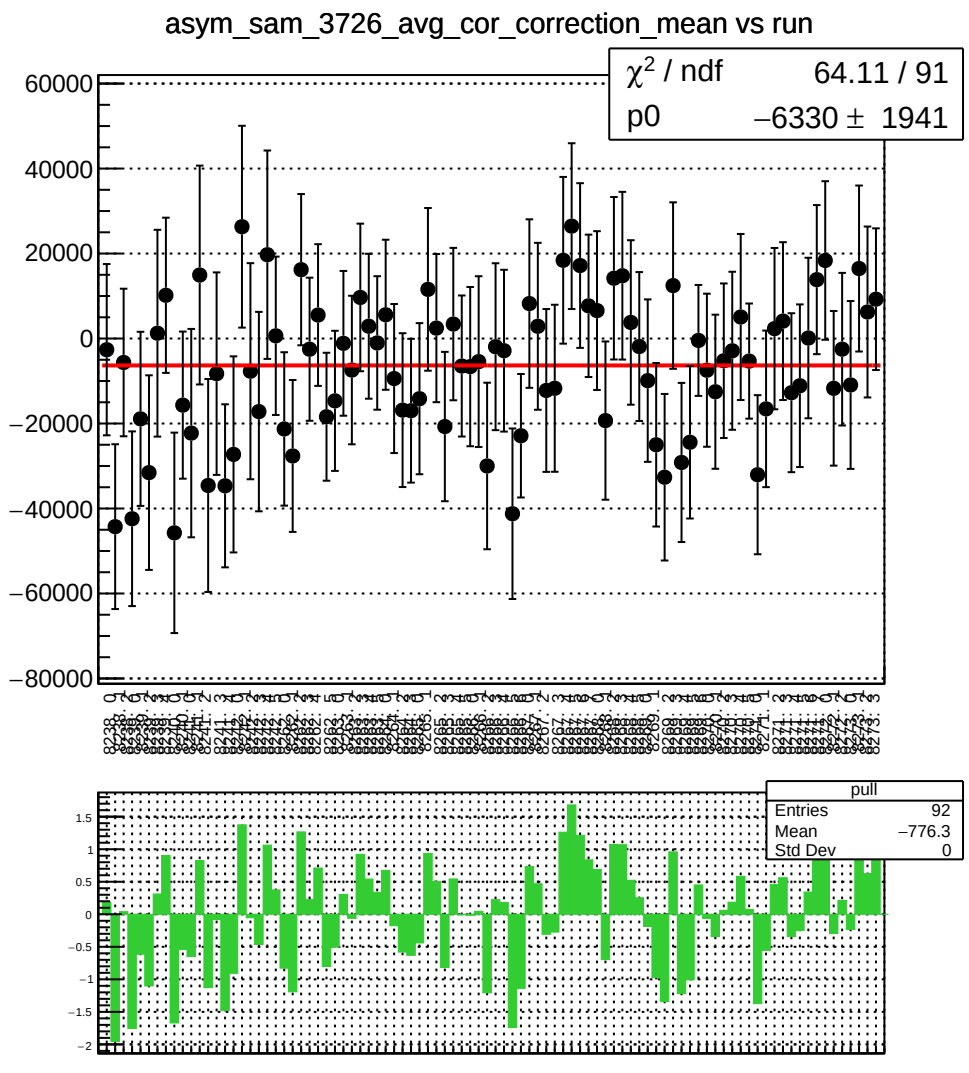

pull1D
Entries 92
Mean −0.00663
Std Dev 0.8348

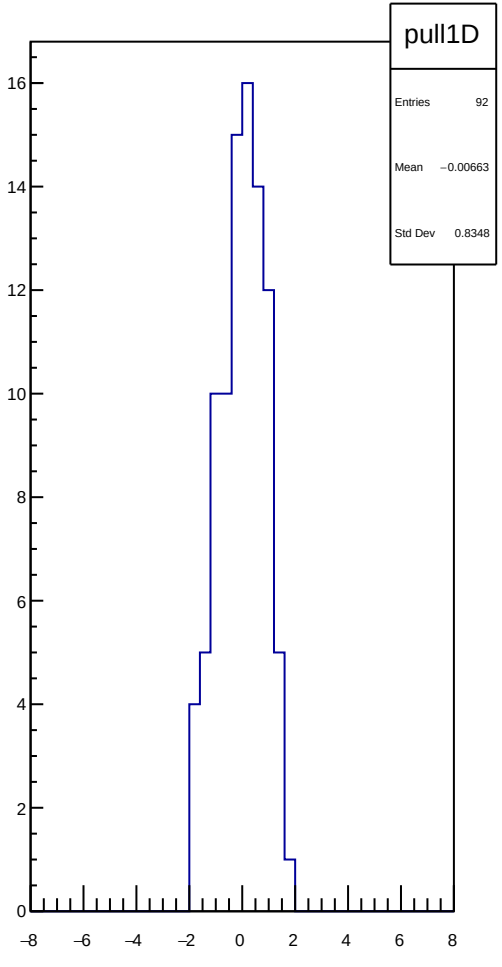

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 1.892e+04 / 91
p0 1823 ± 1.373
2400
2200
2000
1800
1600

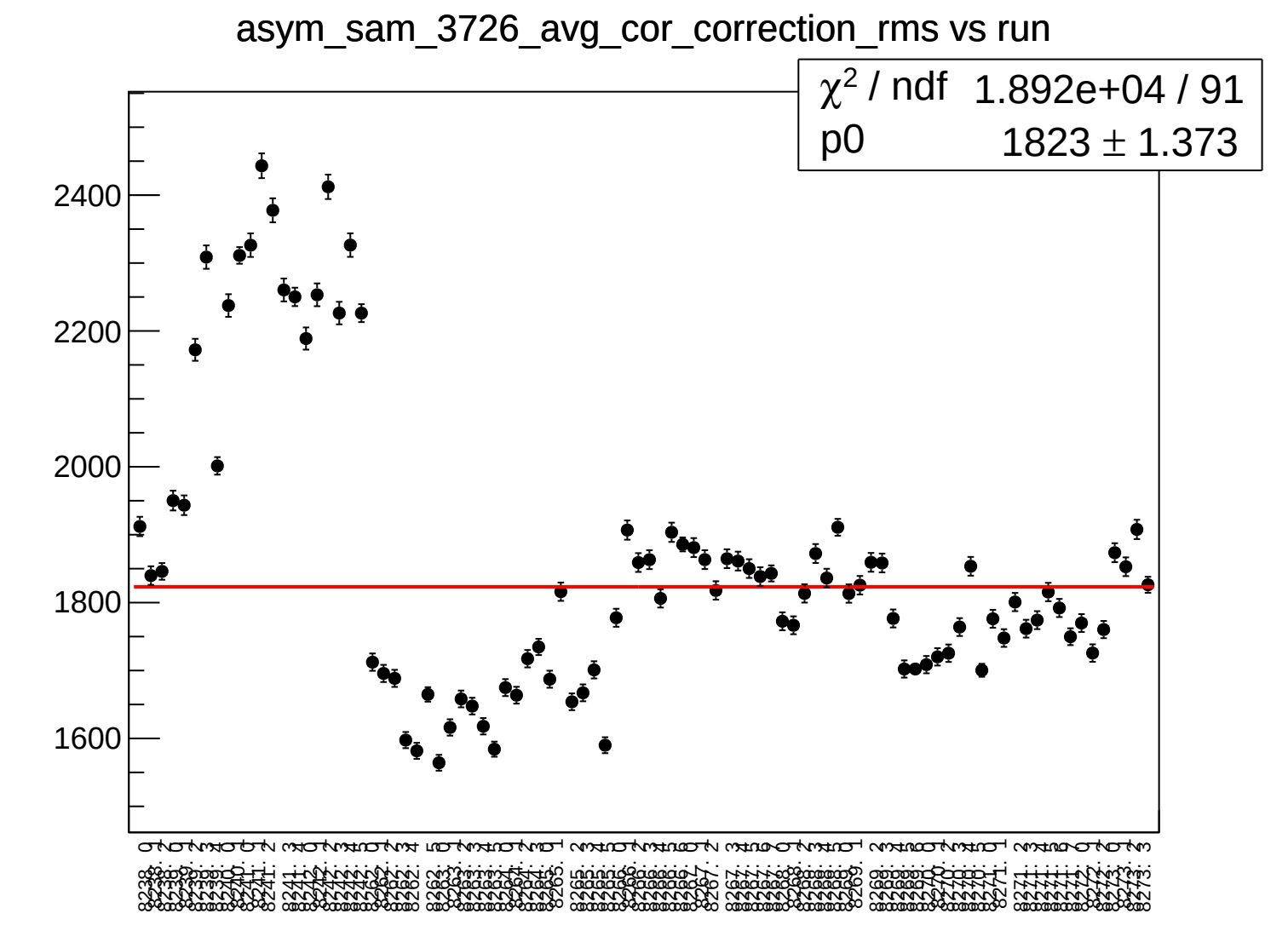

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 85.67 / 91
p0 45.07 ± 152.4
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −212.3
Std Dev 0
3
2
1
0
−1
−2

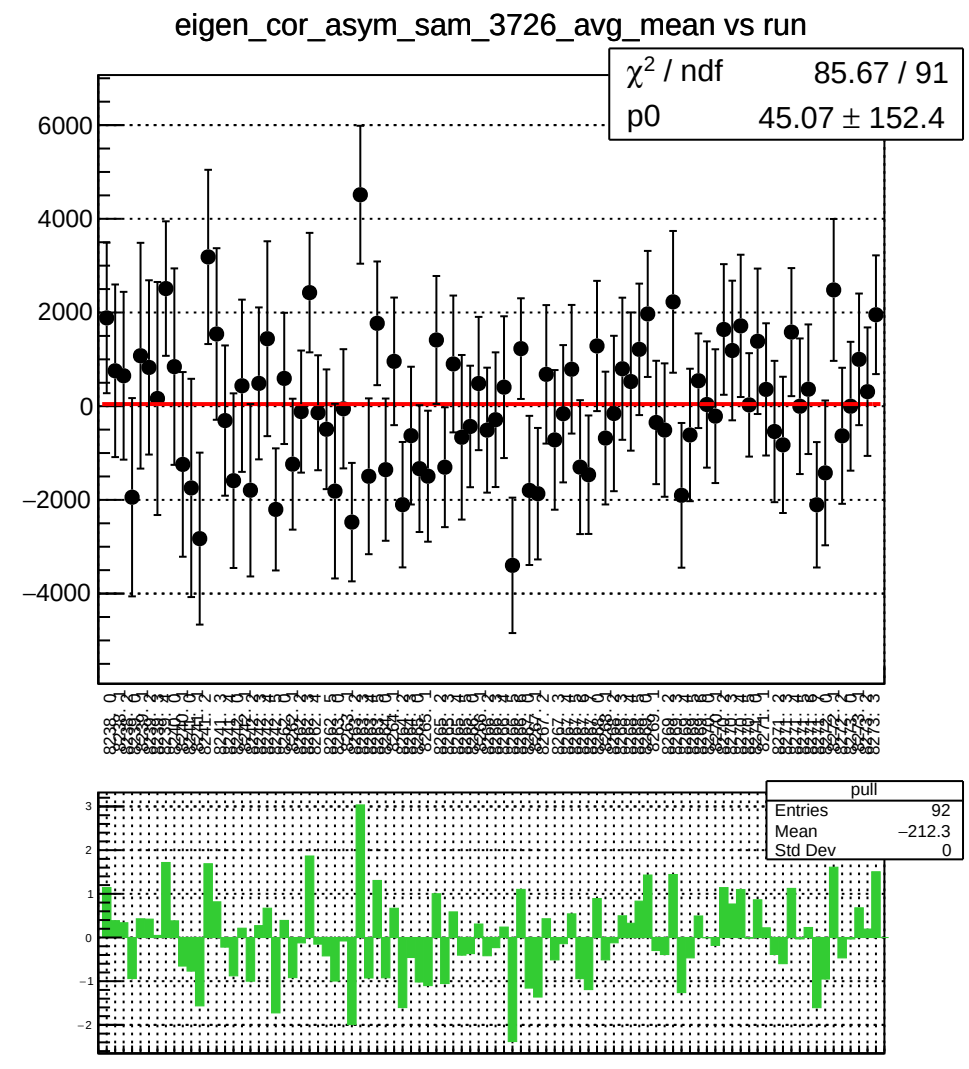

pull1D
Entries 92
Mean −0.006513
Std Dev 0.965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

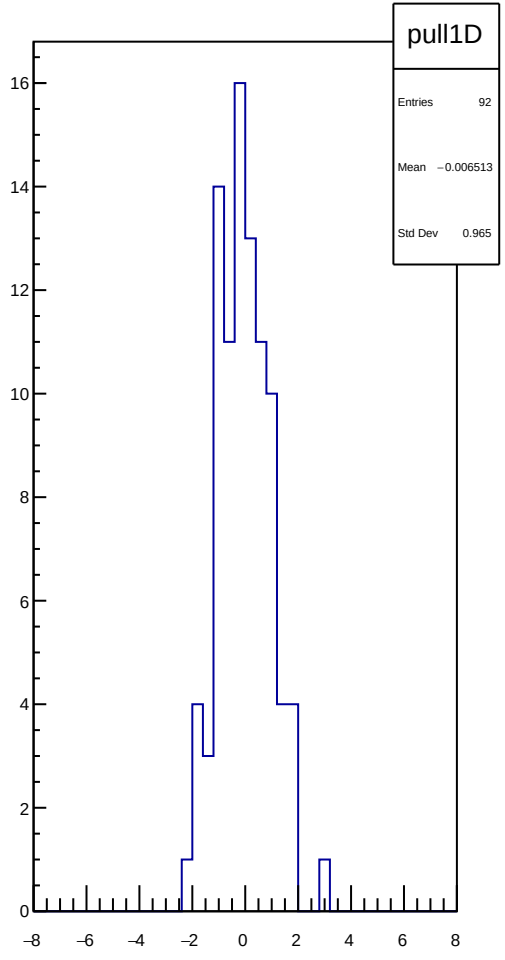

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 3.852e+04 / 91
p0 142.3 ± 0.1078
260
240
220
200
180
160
140
120

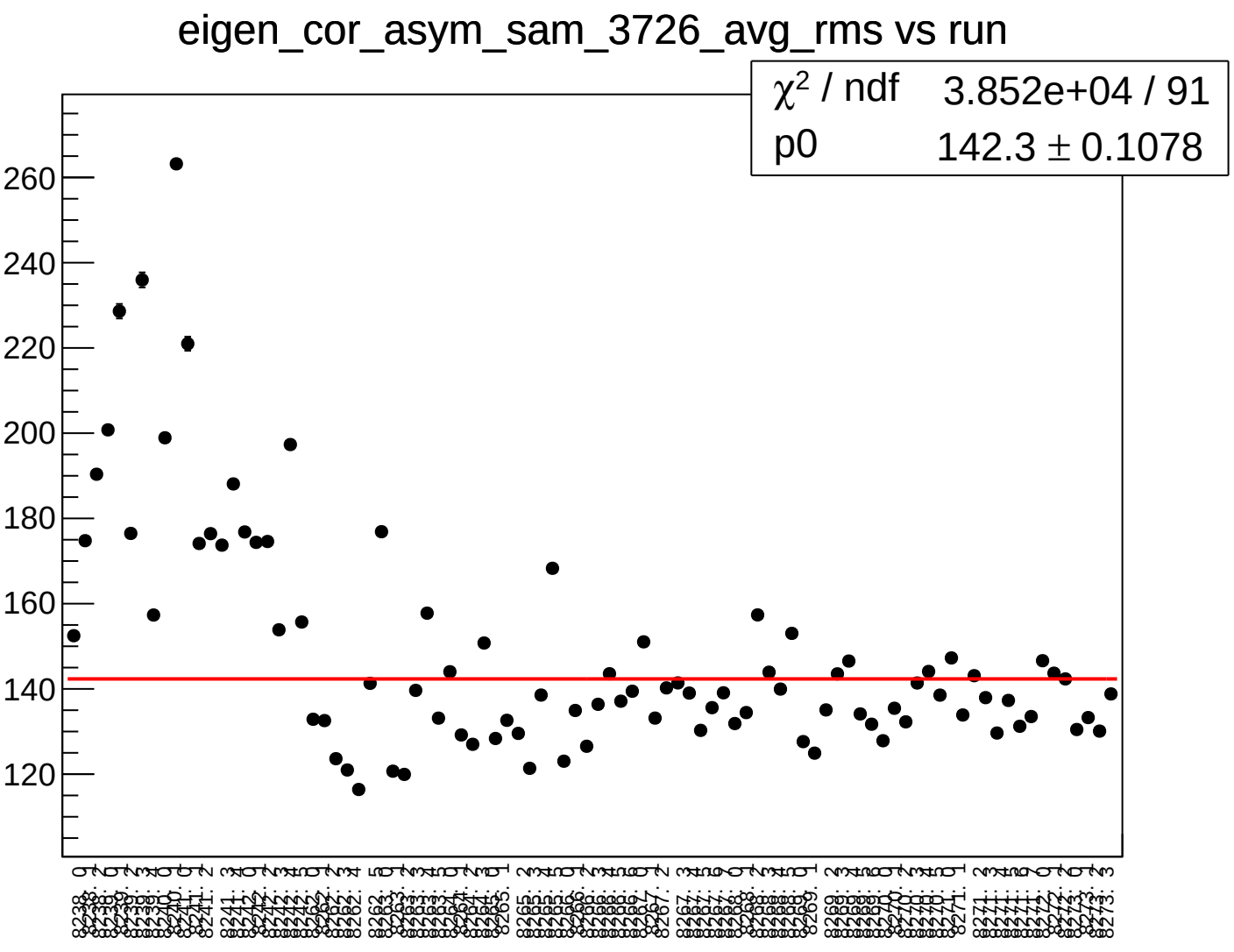

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 64.11 / 91
p0 −6330 ± 1941
pull
Entries 92
Mean −776.3
Std Dev 0

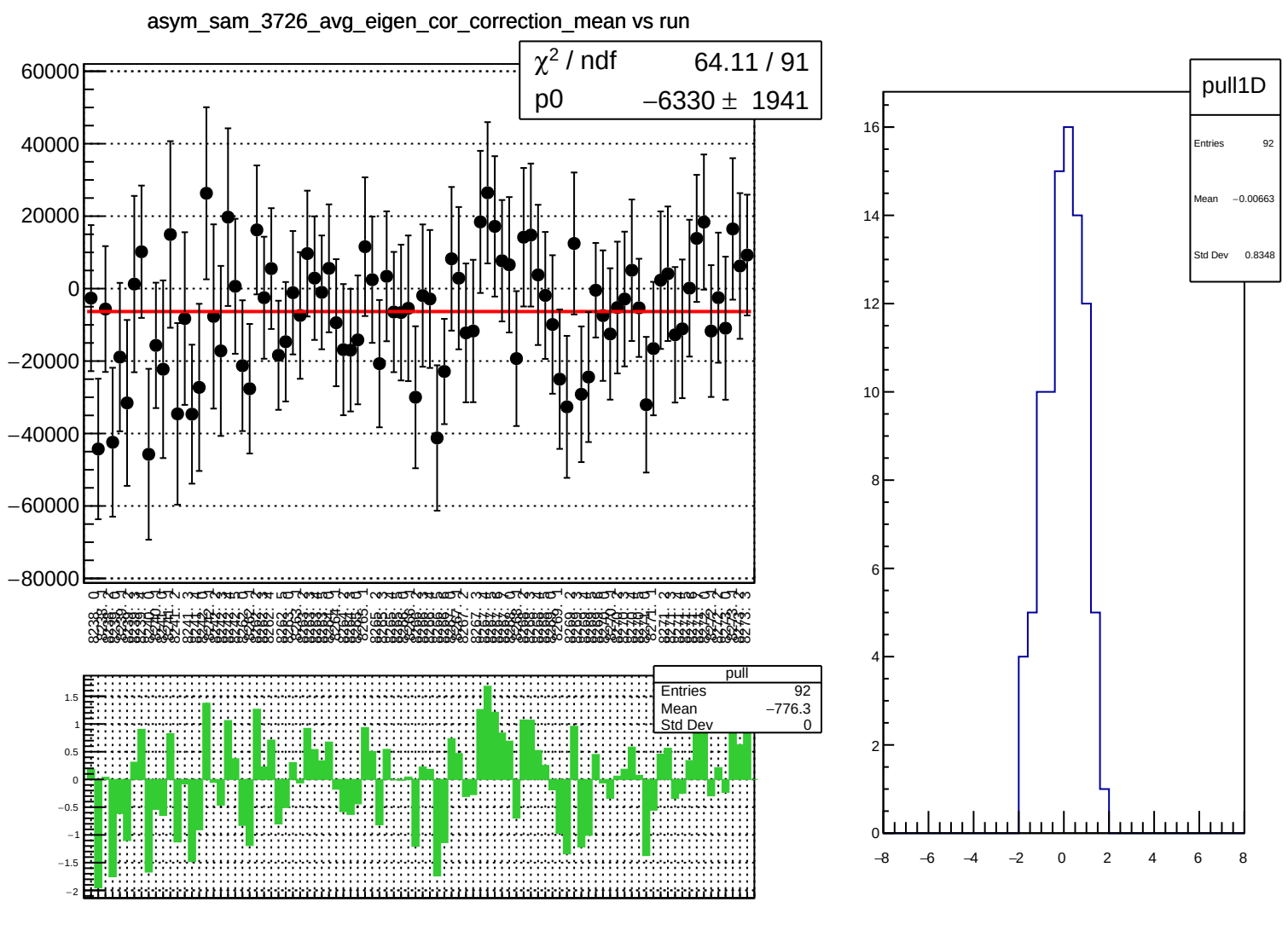

pull1D
Entries 92
Mean −0.00663
Std Dev 0.8348

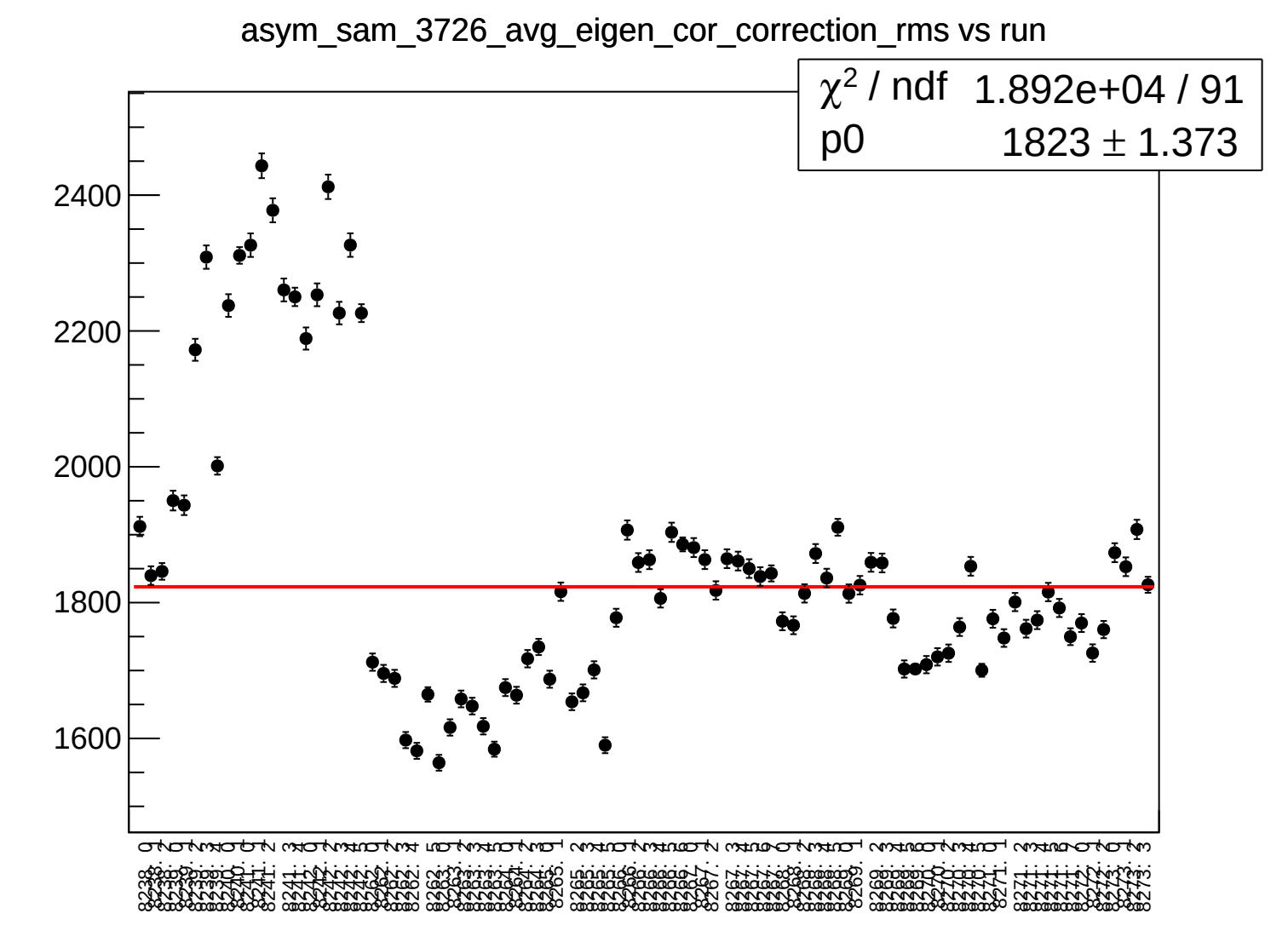

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 1.892e+04 / 91
p0 1823 ± 1.373
2400
2200
2000
1800
1600

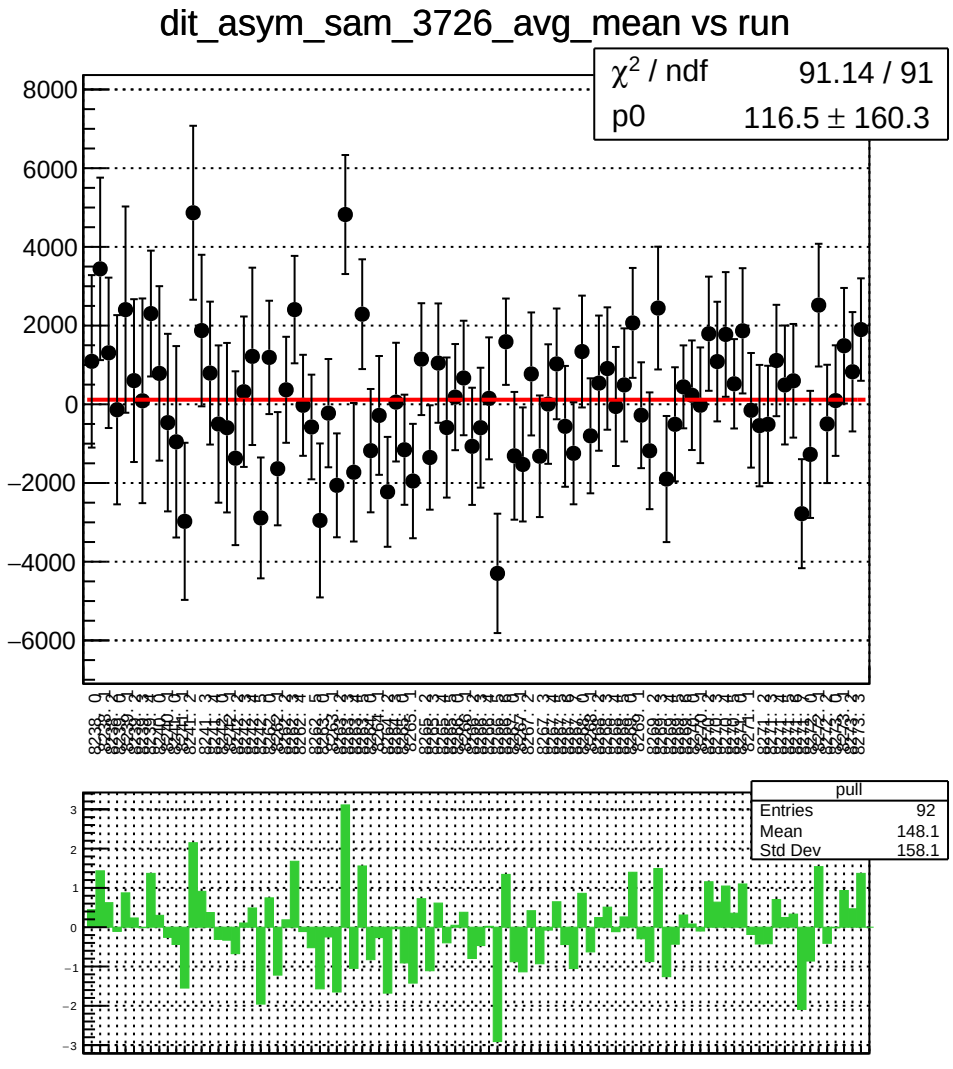

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 85.67 / 91
p0 45.07 ± 152.4
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −212.3
Std Dev 0
3
2
1
0
−1
−2

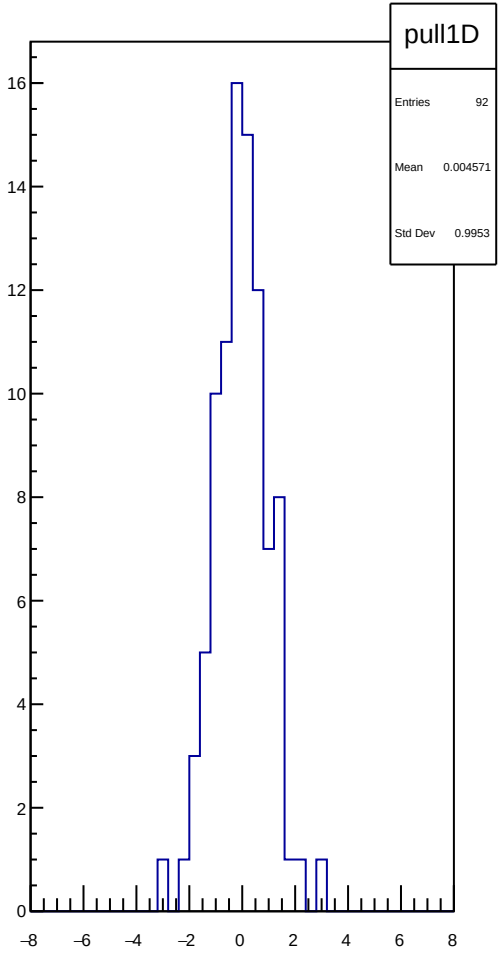

pull1D
Entries 92
Mean −0.006513
Std Dev 0.965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

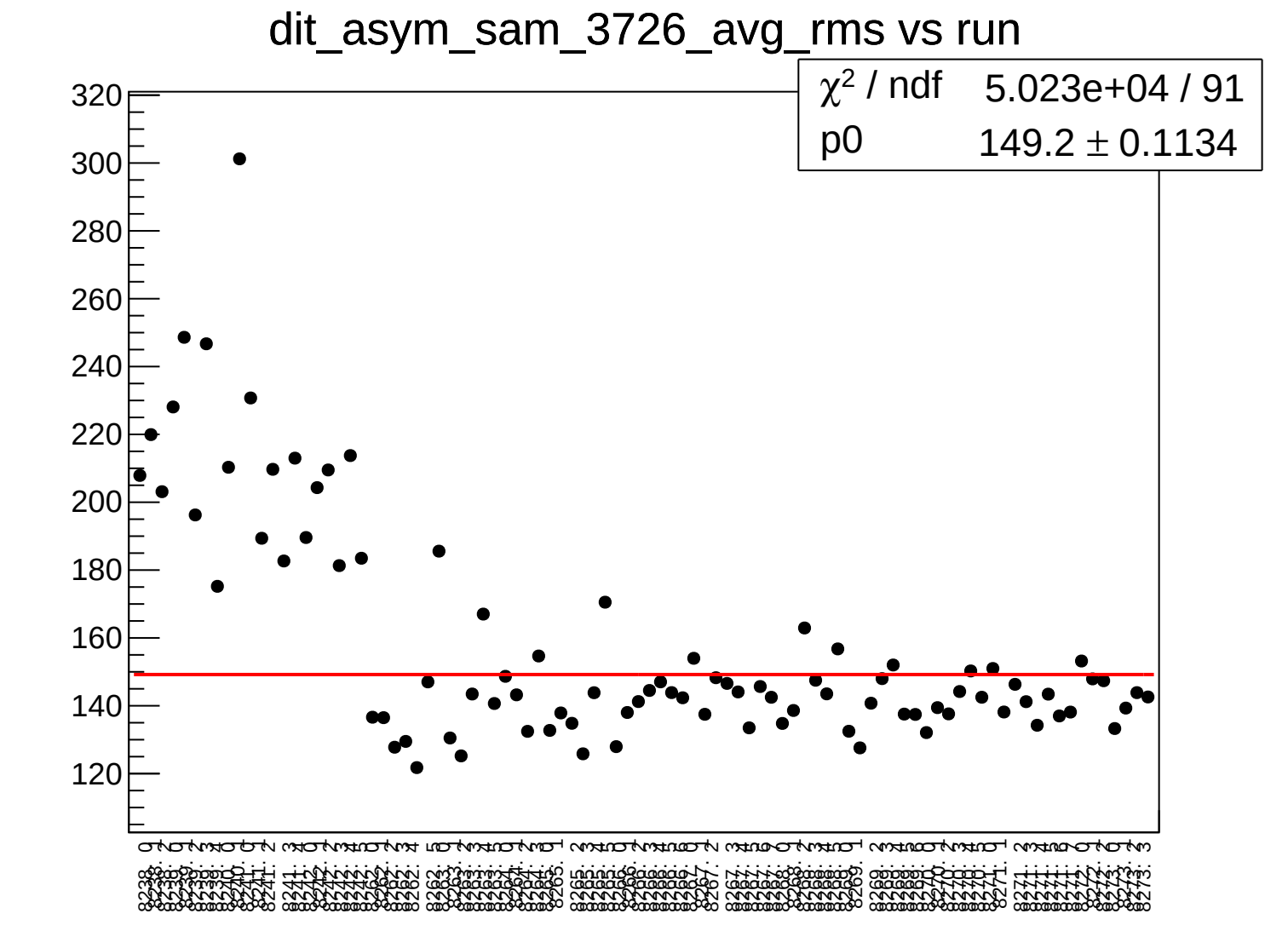

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 3.852e+04 / 91
p0 142.3 ± 0.1078
260
240
220
200
180
160
140
120

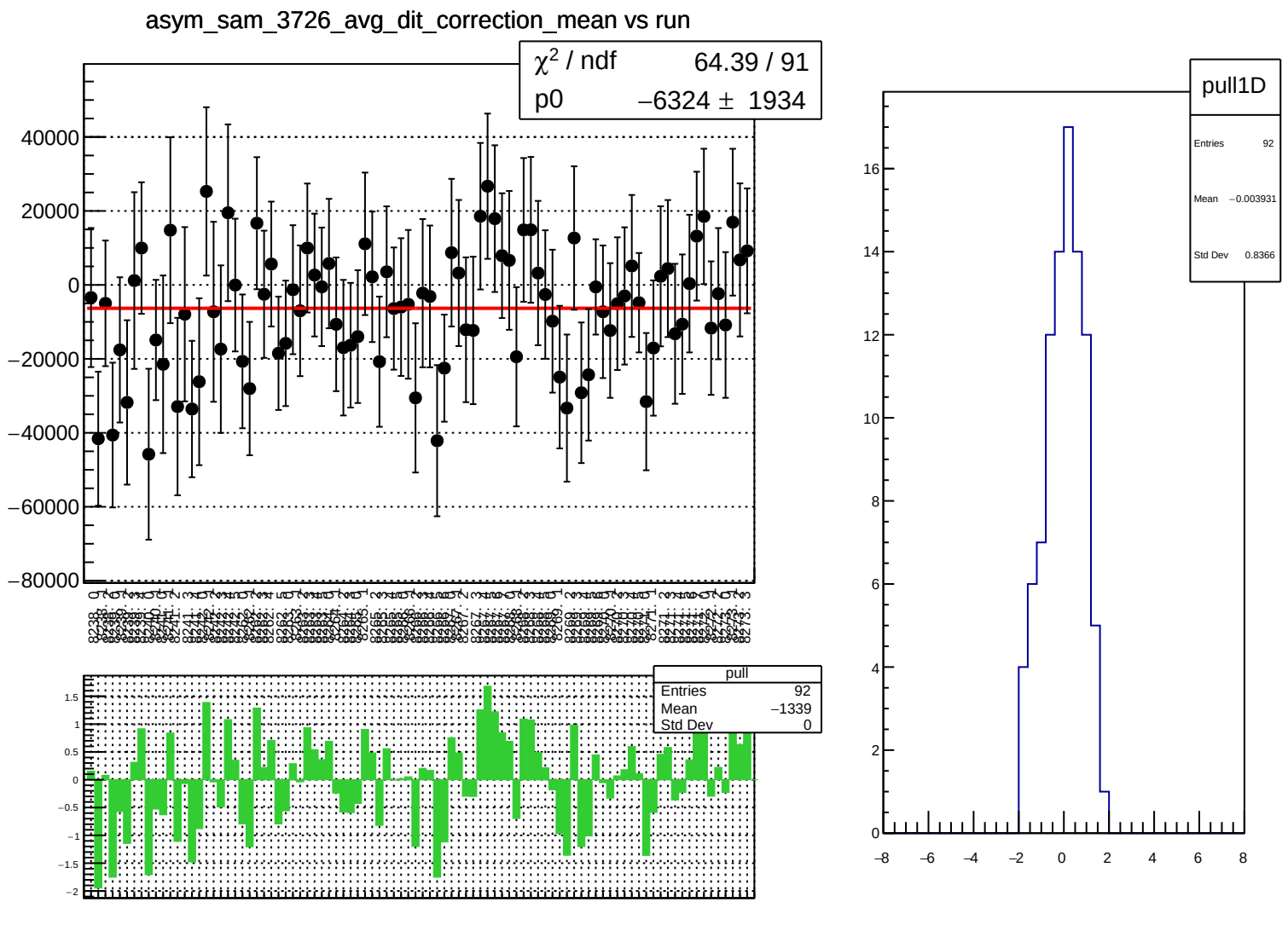

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 64.11 / 91
p0 −6330 ± 1941
pull
Entries 92
Mean −776.3
Std Dev 0
pull1D
Entries 92
Mean −0.00663
Std Dev 0.8348

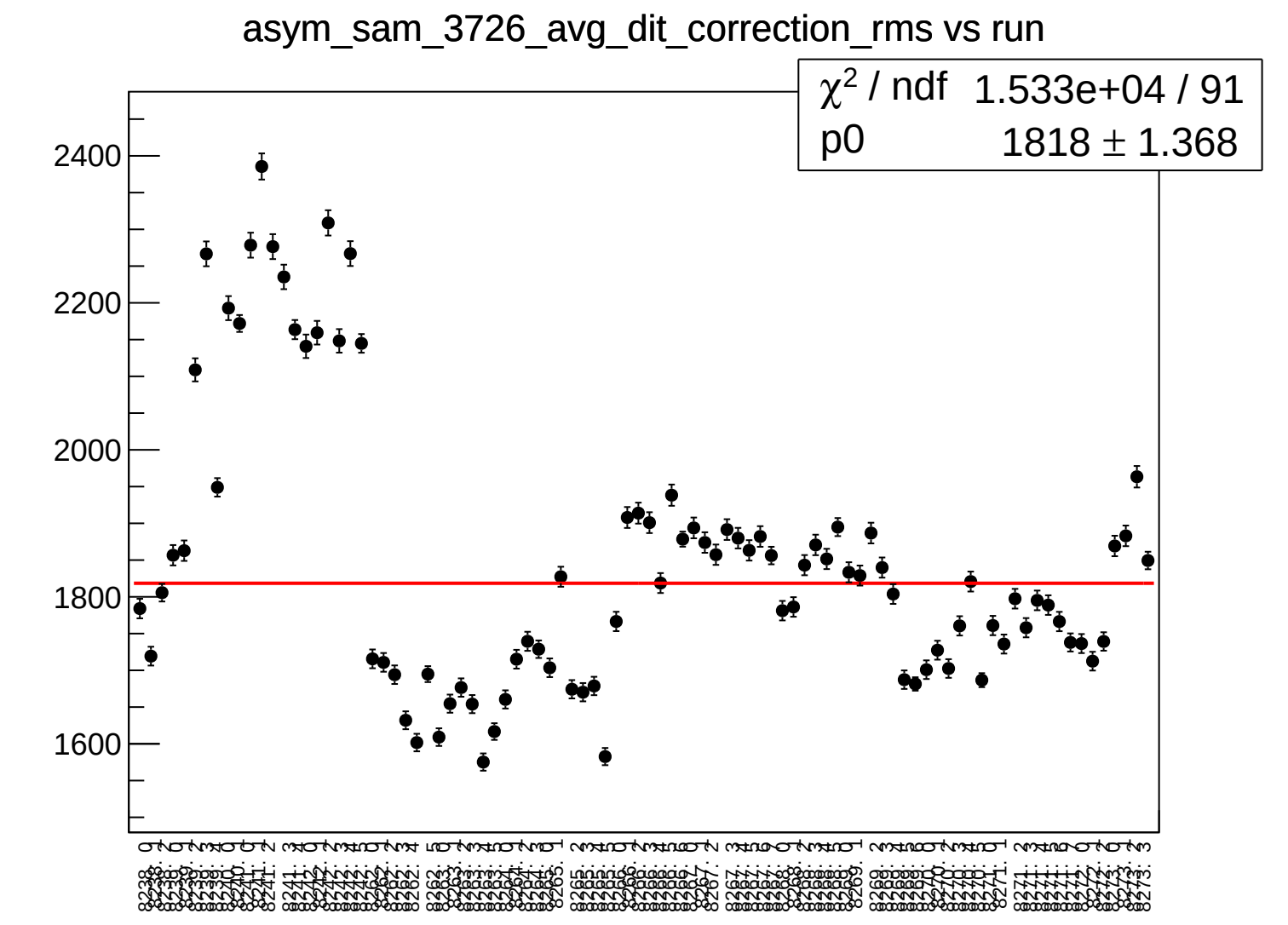

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.892e+04 / 91
p0 1823 ± 1.373
2400
2200
2000
1800
1600

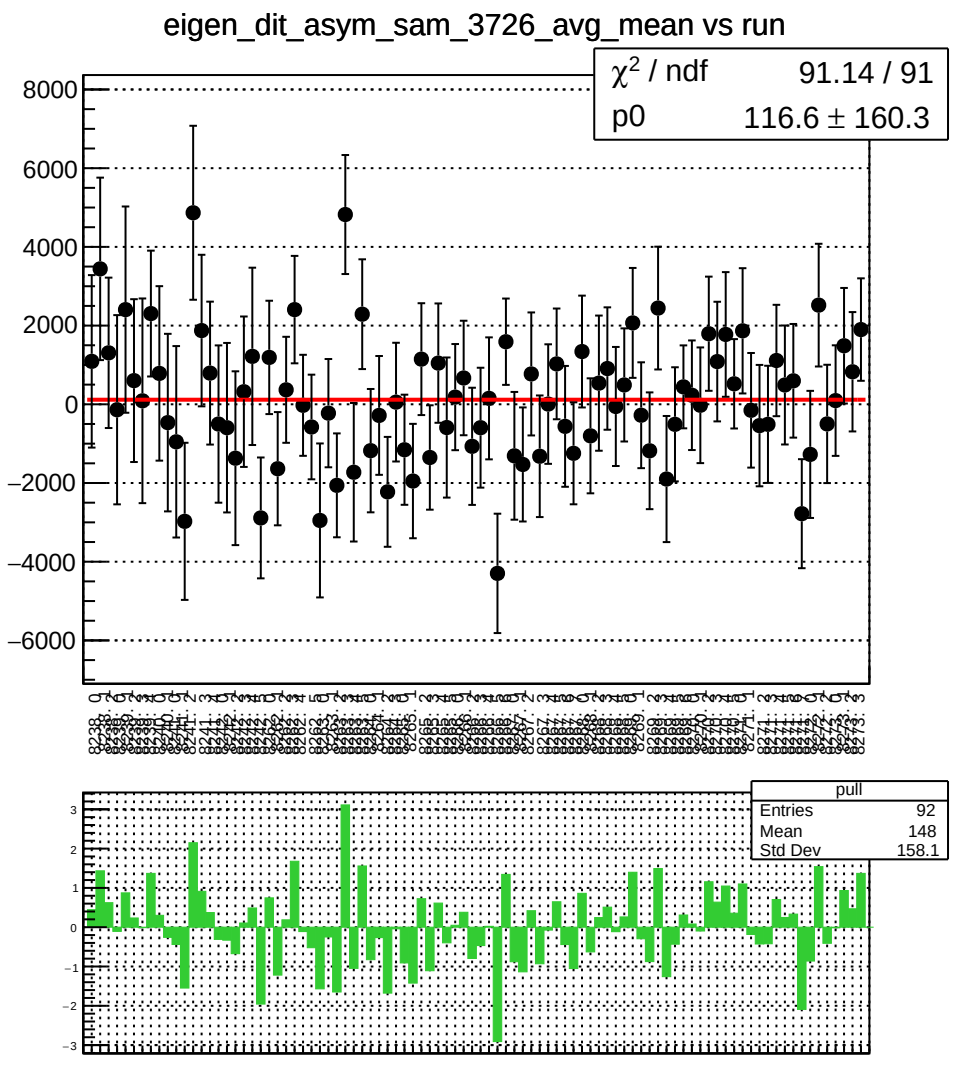

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 91.14 / 91
p0 116.5 ± 160.3
pull
Entries 92
Mean 148.1
Std Dev 158.1

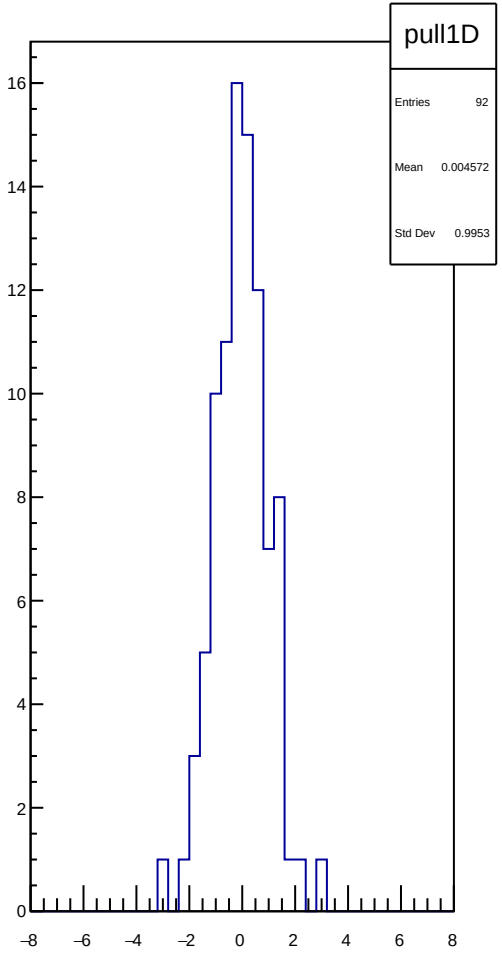

pull1D
Entries 92
Mean 0.004571
Std Dev 0.9953

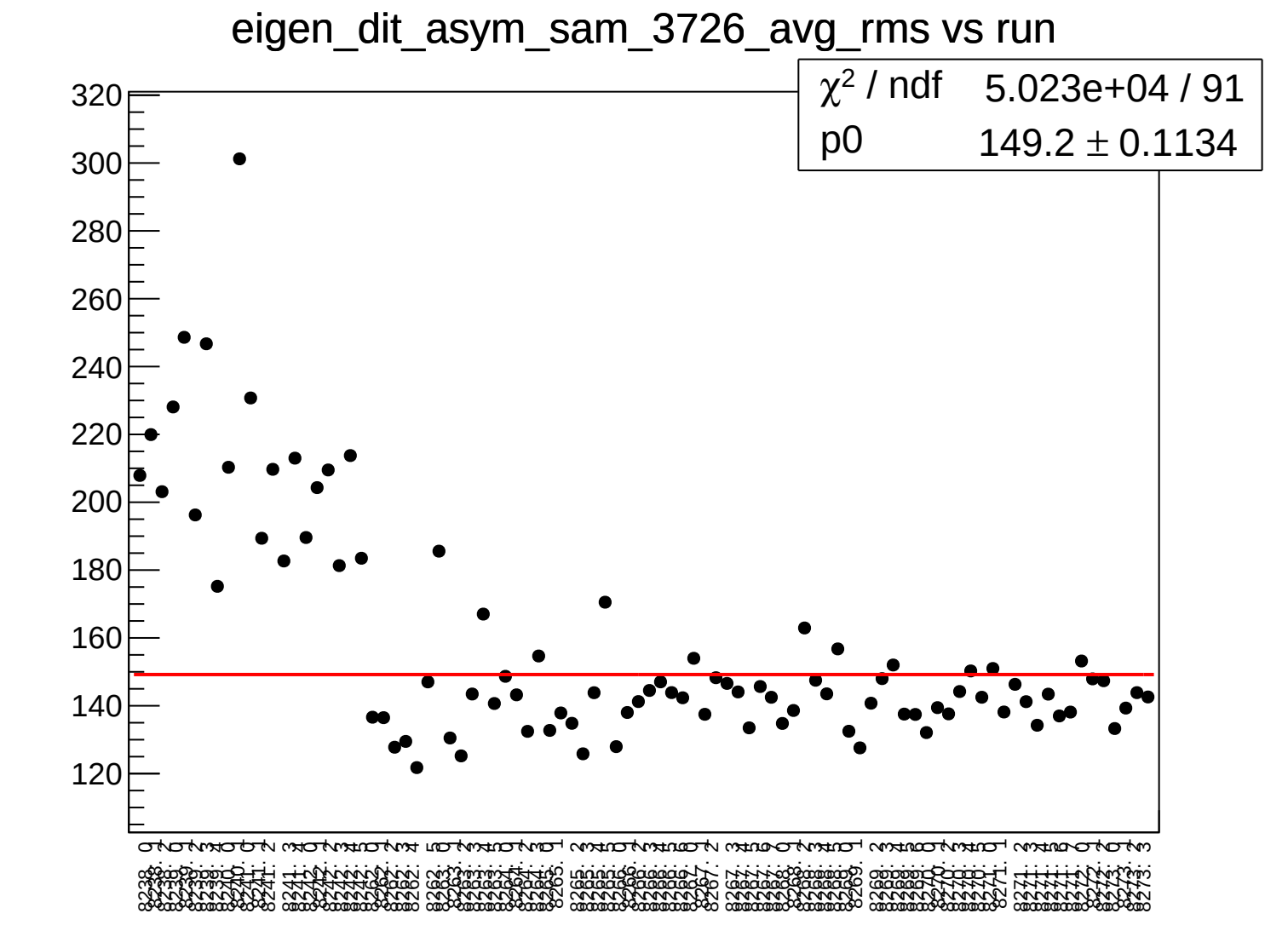

dit_asym_sam_3726_avg_rms vs run
$\chi^2$ / ndf 5.023e+04 / 91
p0 149.2 ± 0.1134
320
300
280
260
240
220
200
180
160
140
120

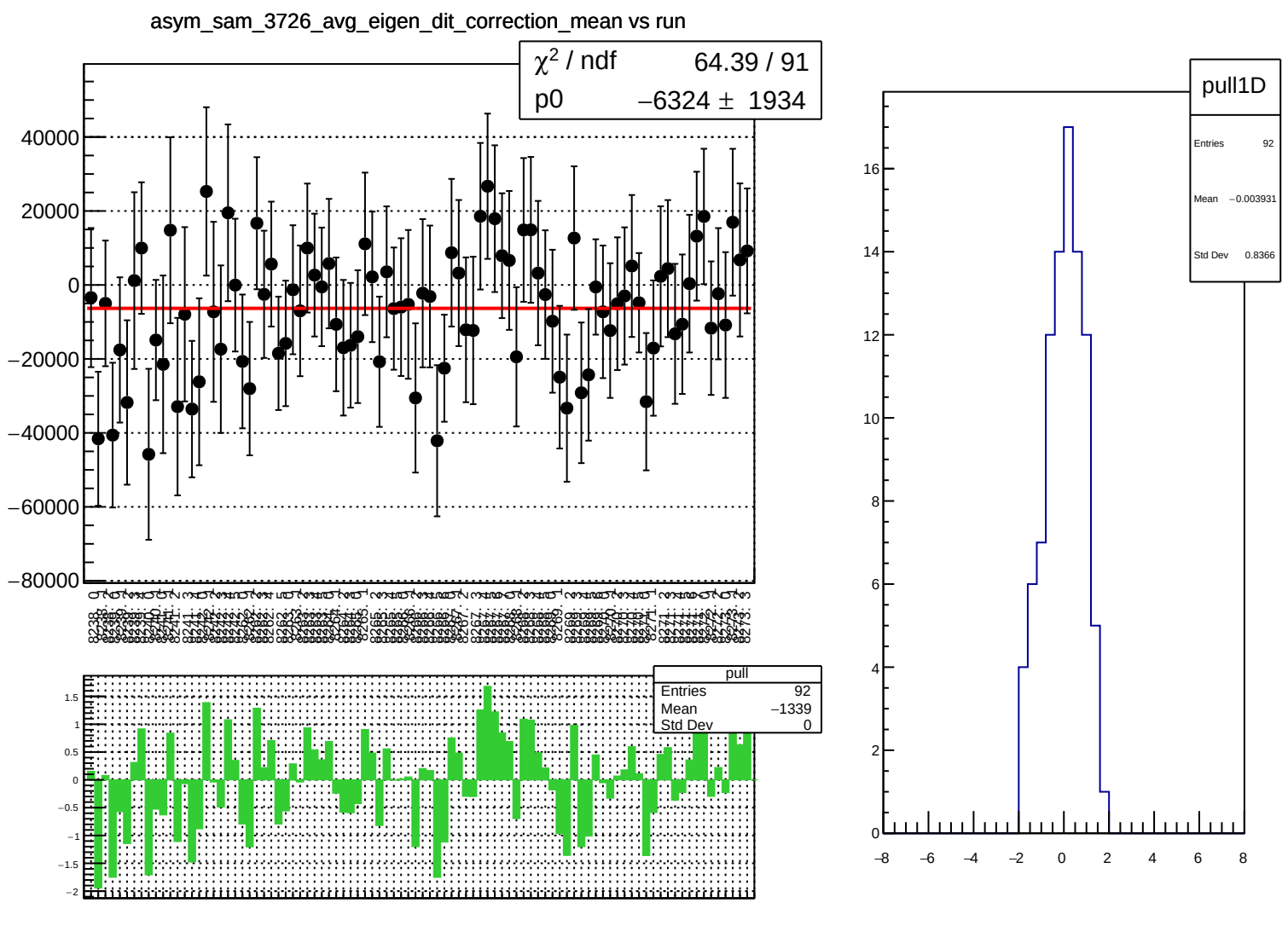

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 64.39 / 91
p0 −6324 ± 1934
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −1339
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.003931
Std Dev 0.8366
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

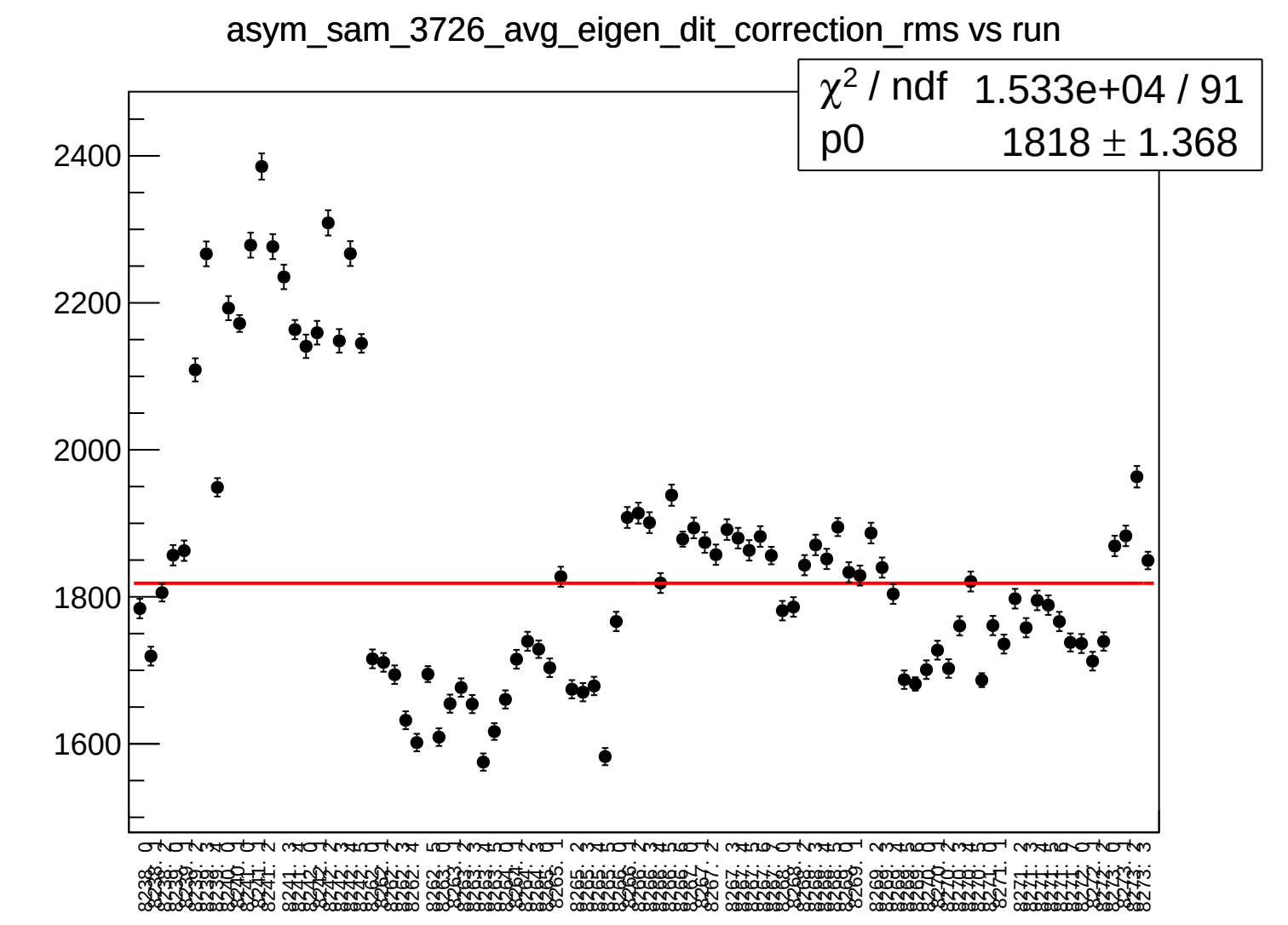

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 1.533e+04 / 91
p0 1818 ± 1.368
2400
2200
2000
1800
1600

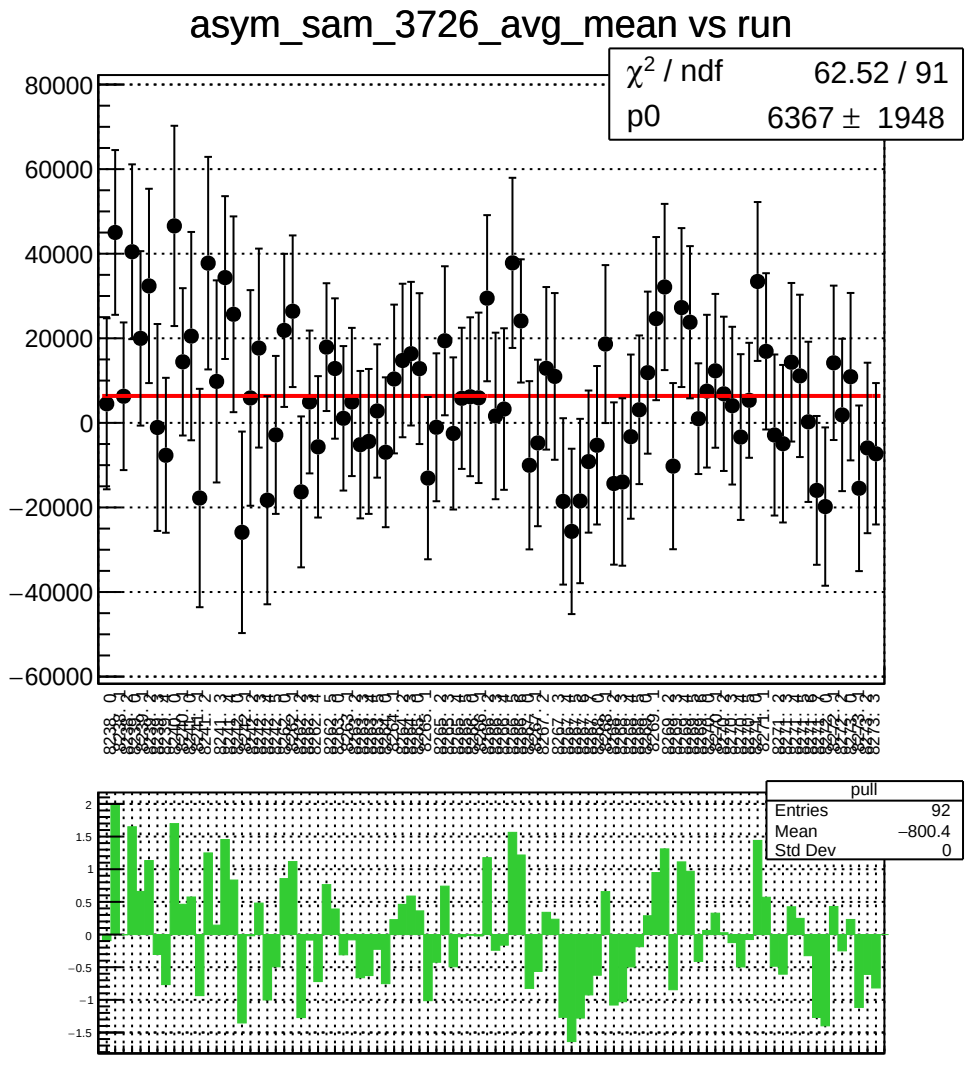

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 91.14 / 91
p0 116.6 ± 160.3
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean 148
Std Dev 158.1
3
2
1
0
−1
−2
−3

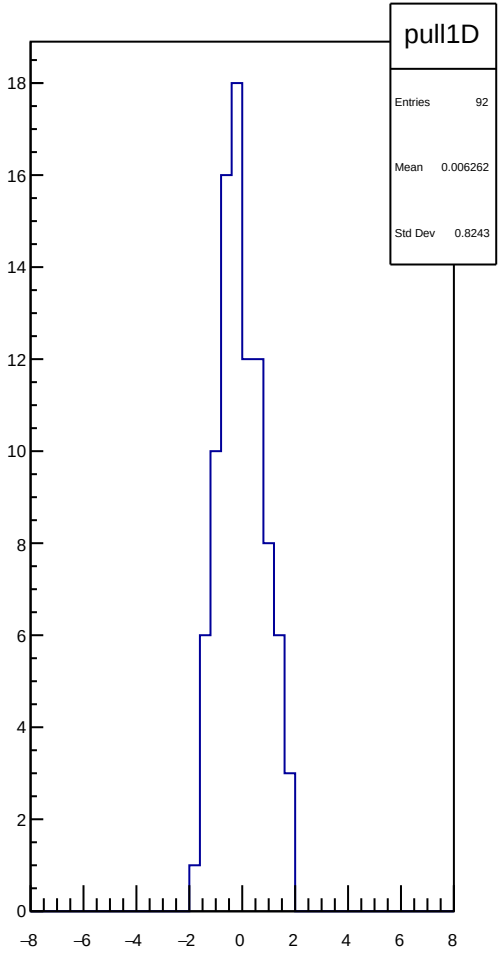

pull1D
Entries 92
Mean 0.004572
Std Dev 0.9953
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

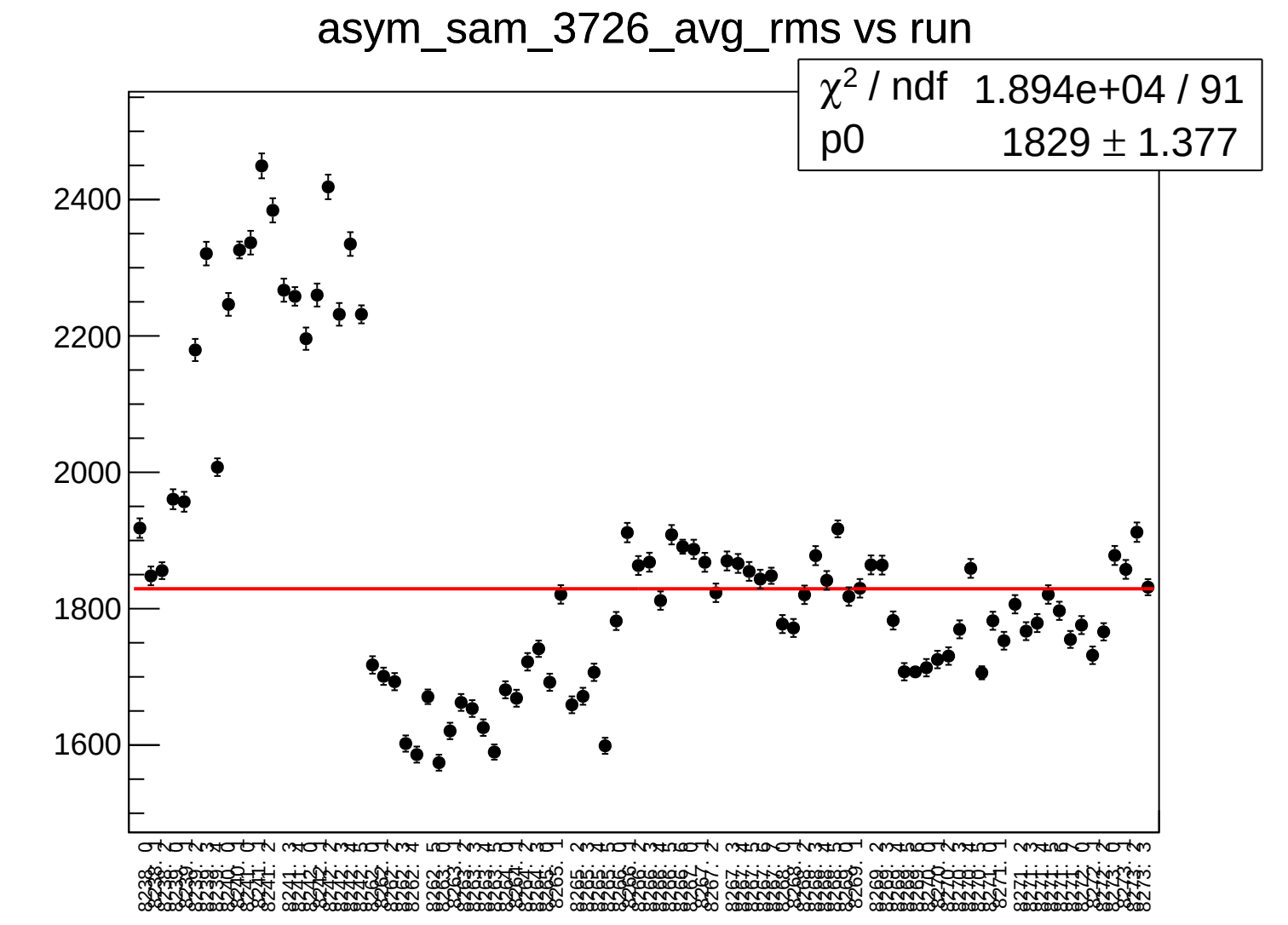

eigen_dit_asym_sam_3726_avg_rms vs run
$\chi^2$ / ndf 5.023e+04 / 91
p0 149.2 ± 0.1134
320
300
280
260
240
220
200
180
160
140
120

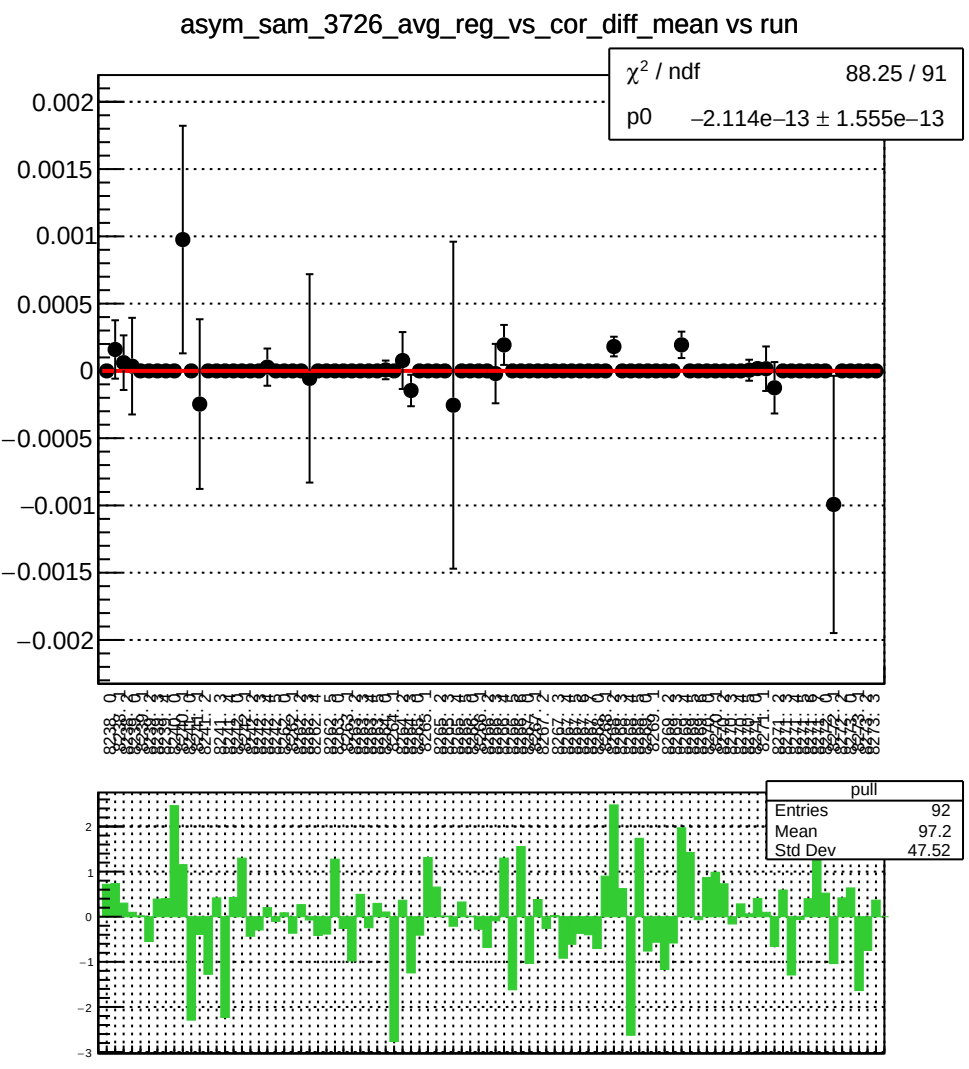

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 64.39 / 91
p0 −6324 ± 1934
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −1339
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.003931
Std Dev 0.8366
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

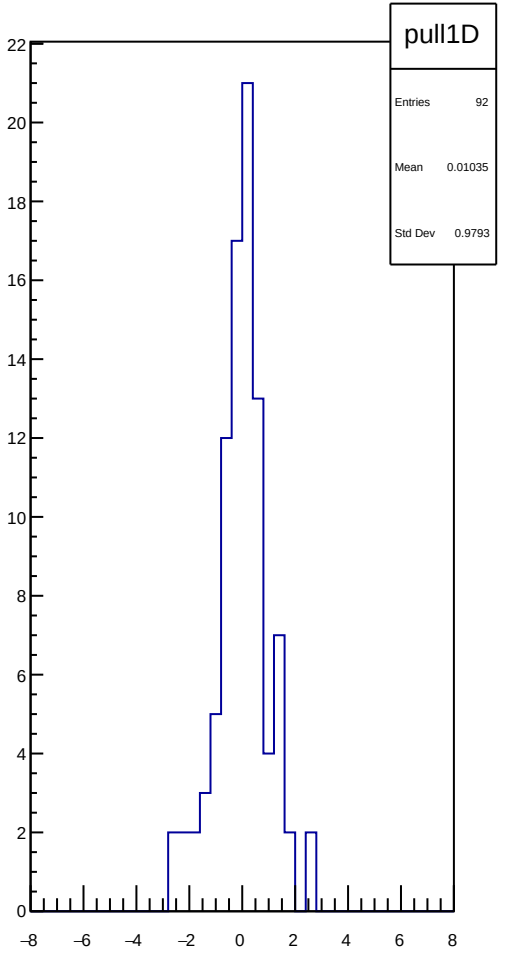

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.533e+04 / 91
p0 1818 ± 1.368
2400
2200
2000
1800
1600

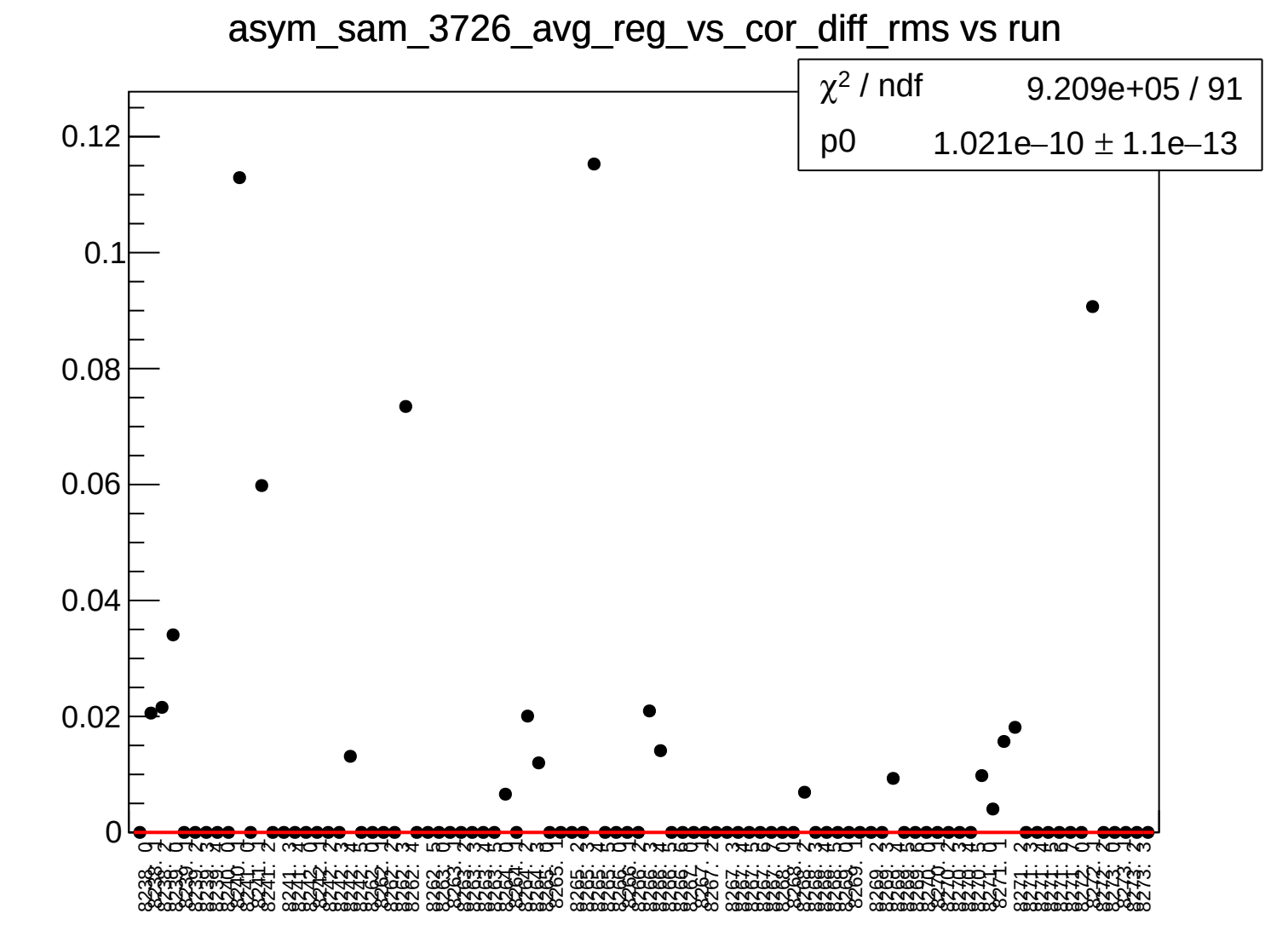

asym_sam_3726_avg_mean vs run
χ² / ndf 62.52 / 91
p0 6367 ± 1948
pull
Entries 92
Mean −800.4
Std Dev 0

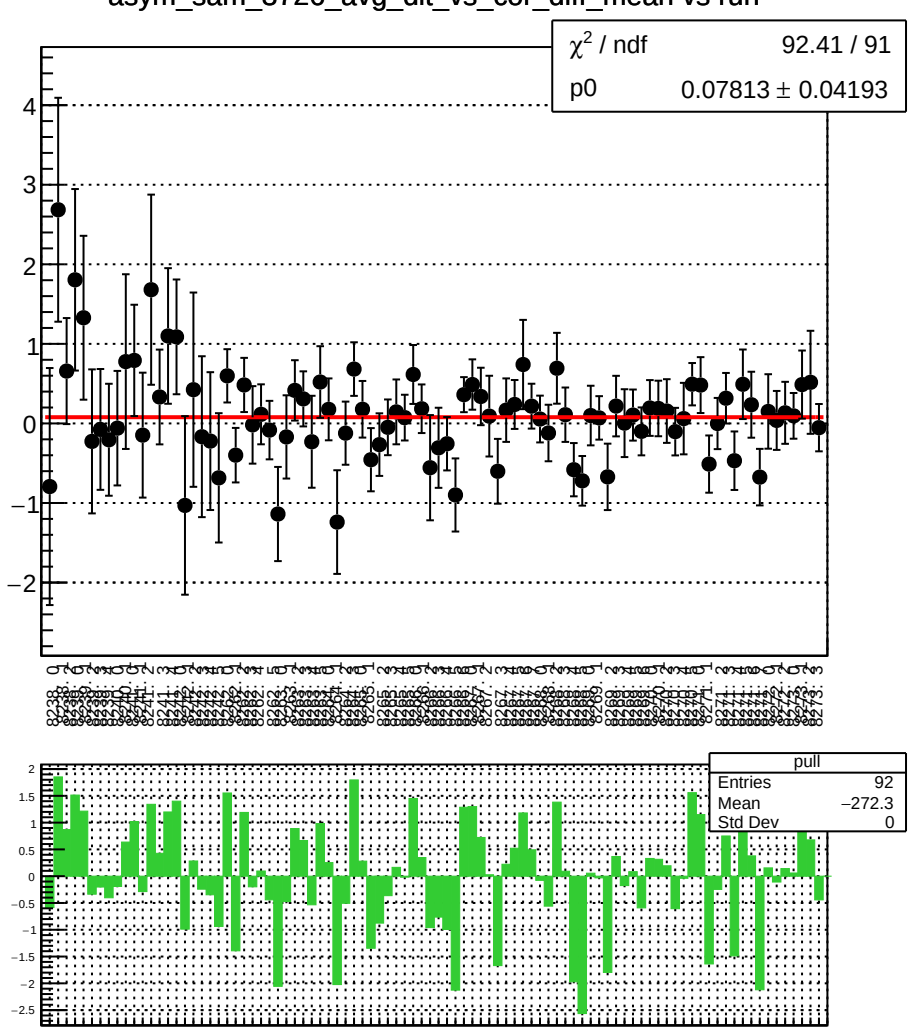

pull1D
Entries 92
Mean 0.006262
Std Dev 0.8243

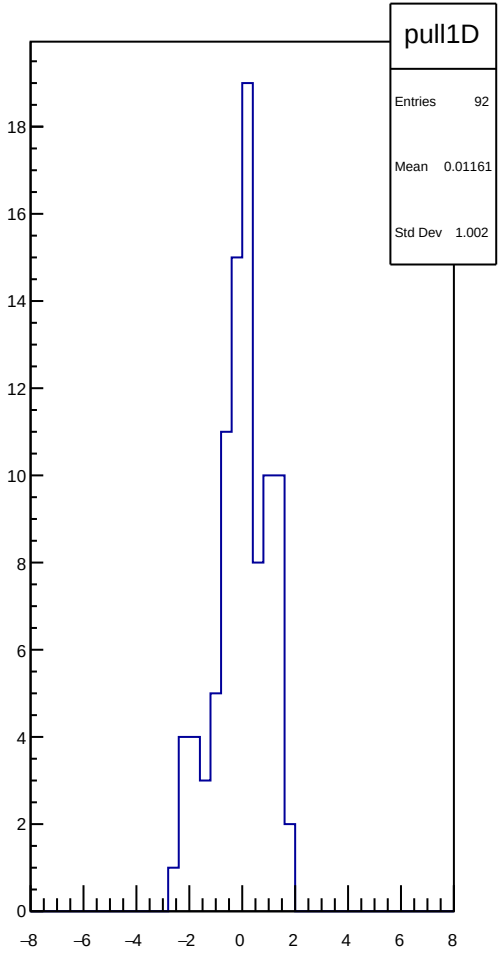

asym_sam_3726_avg_rms vs run
χ² / ndf 1.894e+04 / 91
p0 1829 ± 1.377
2400
2200
2000
1800
1600

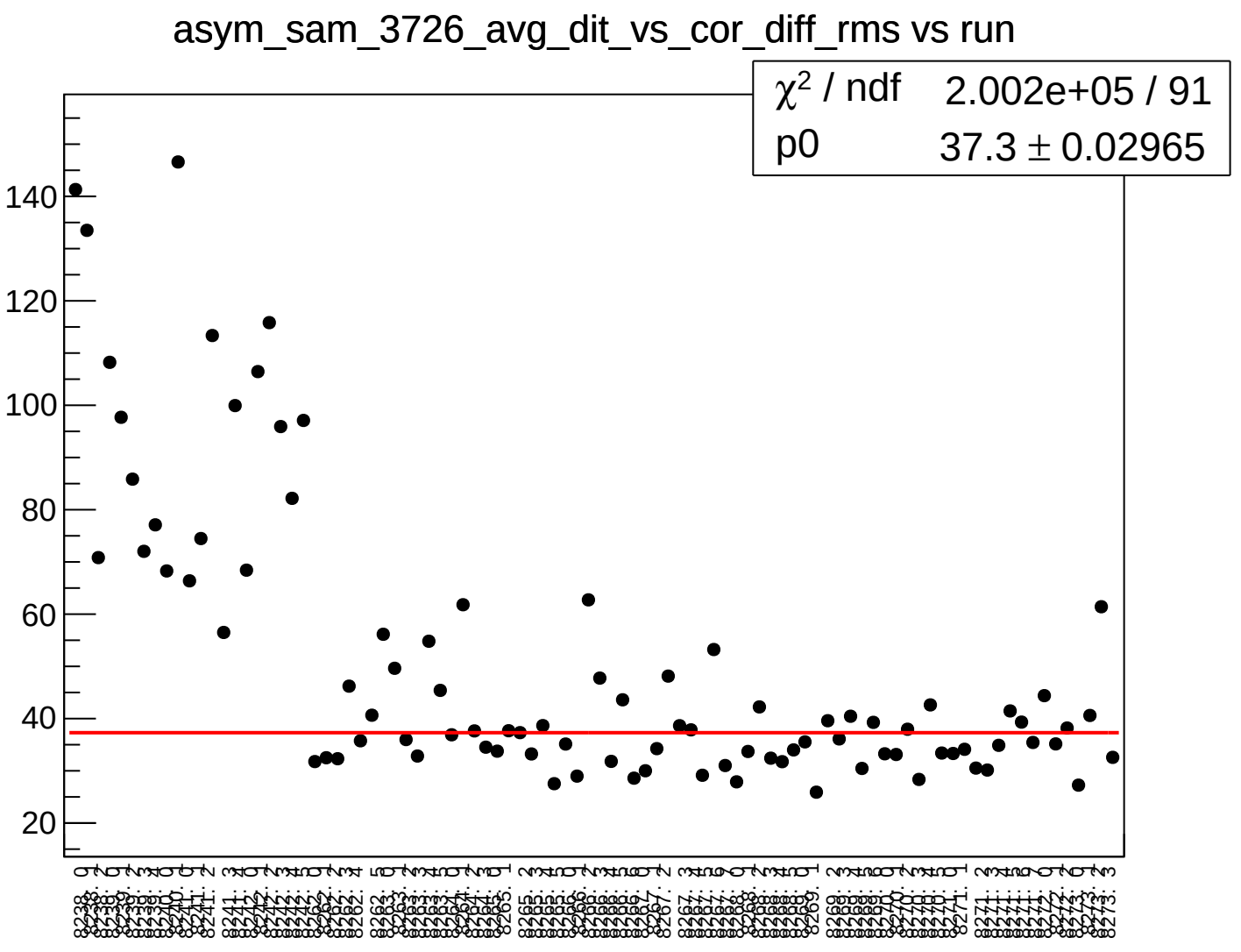

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.25 / 91
p0 −2.114e−13 ± 1.555e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 92
Mean 97.2
Std Dev 47.52
2
1
0
−1
−2
−3

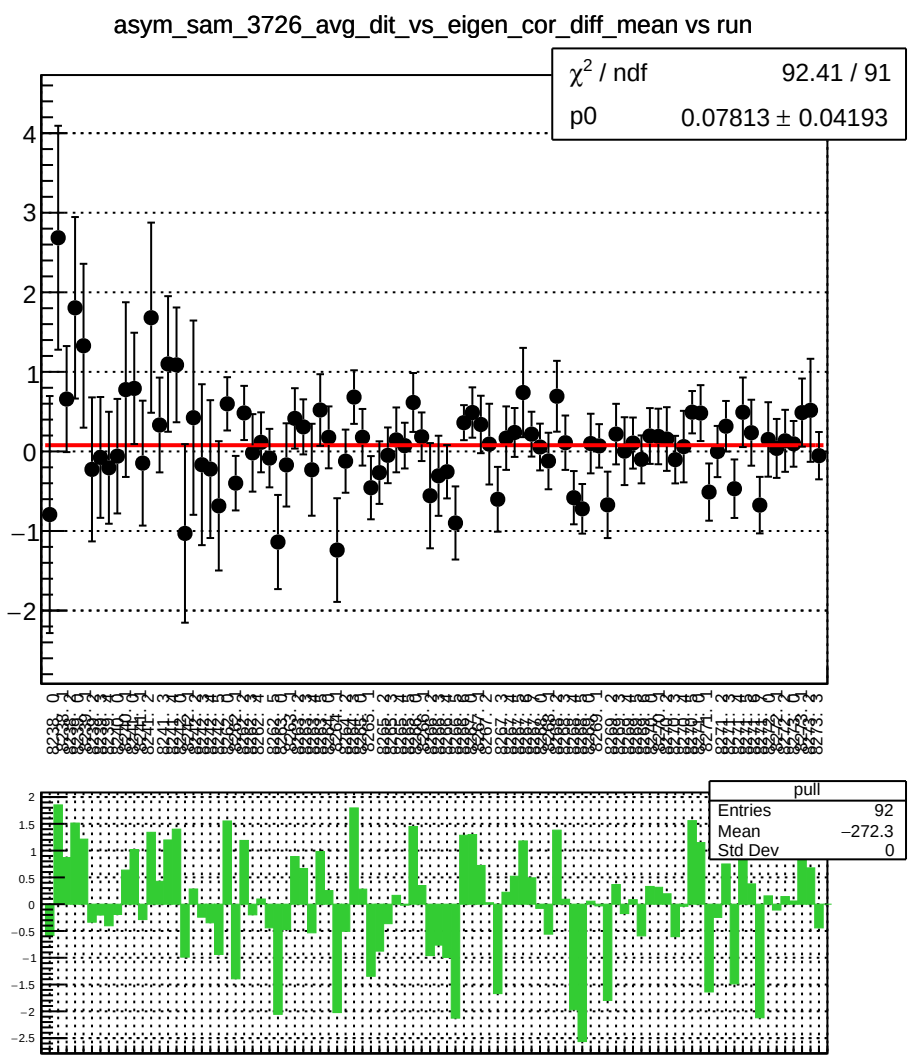

pull1D
Entries 92
Mean 0.01035
Std Dev 0.9793
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

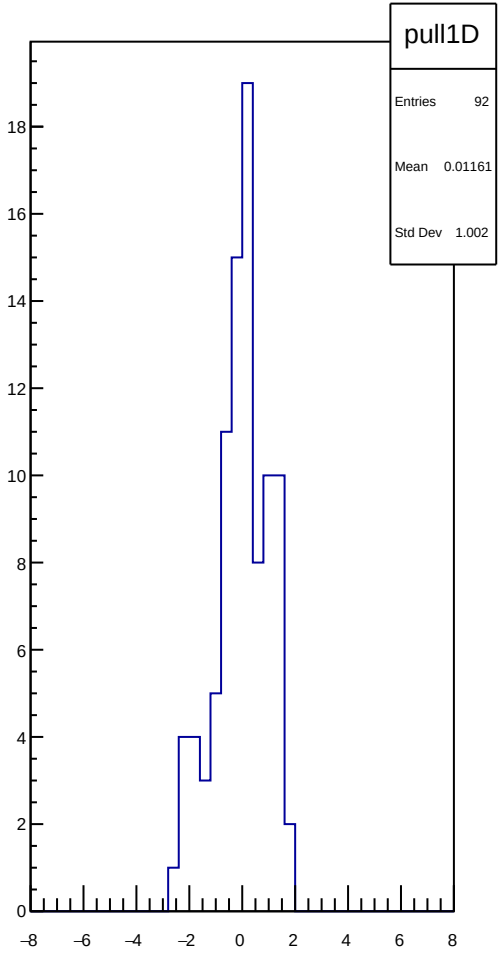

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.209e+05 / 91
p0 1.021e−10 ± 1.1e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

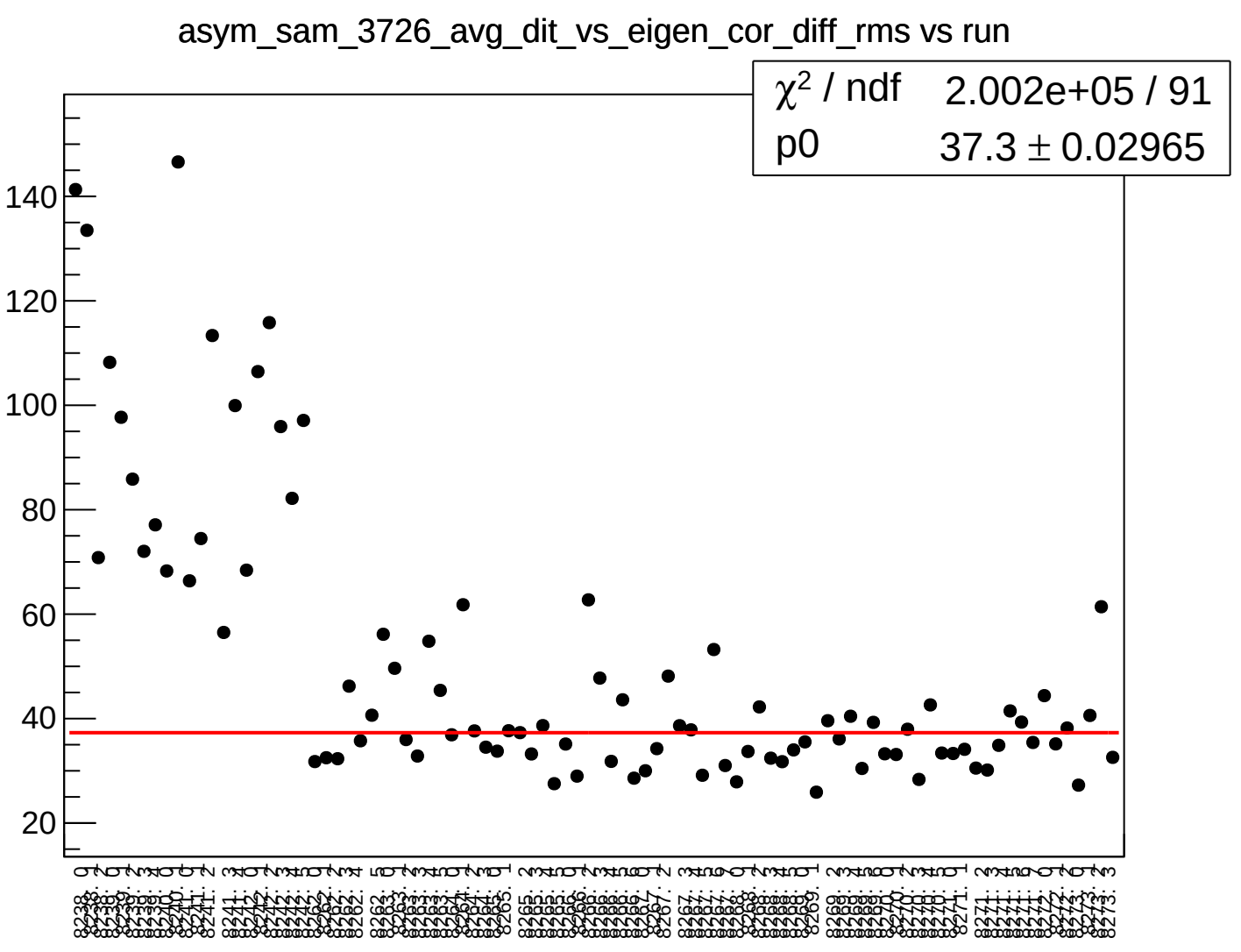

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.41 / 91
p0 0.07813 ± 0.04193
pull
Entries 92
Mean −272.3
Std Dev 0

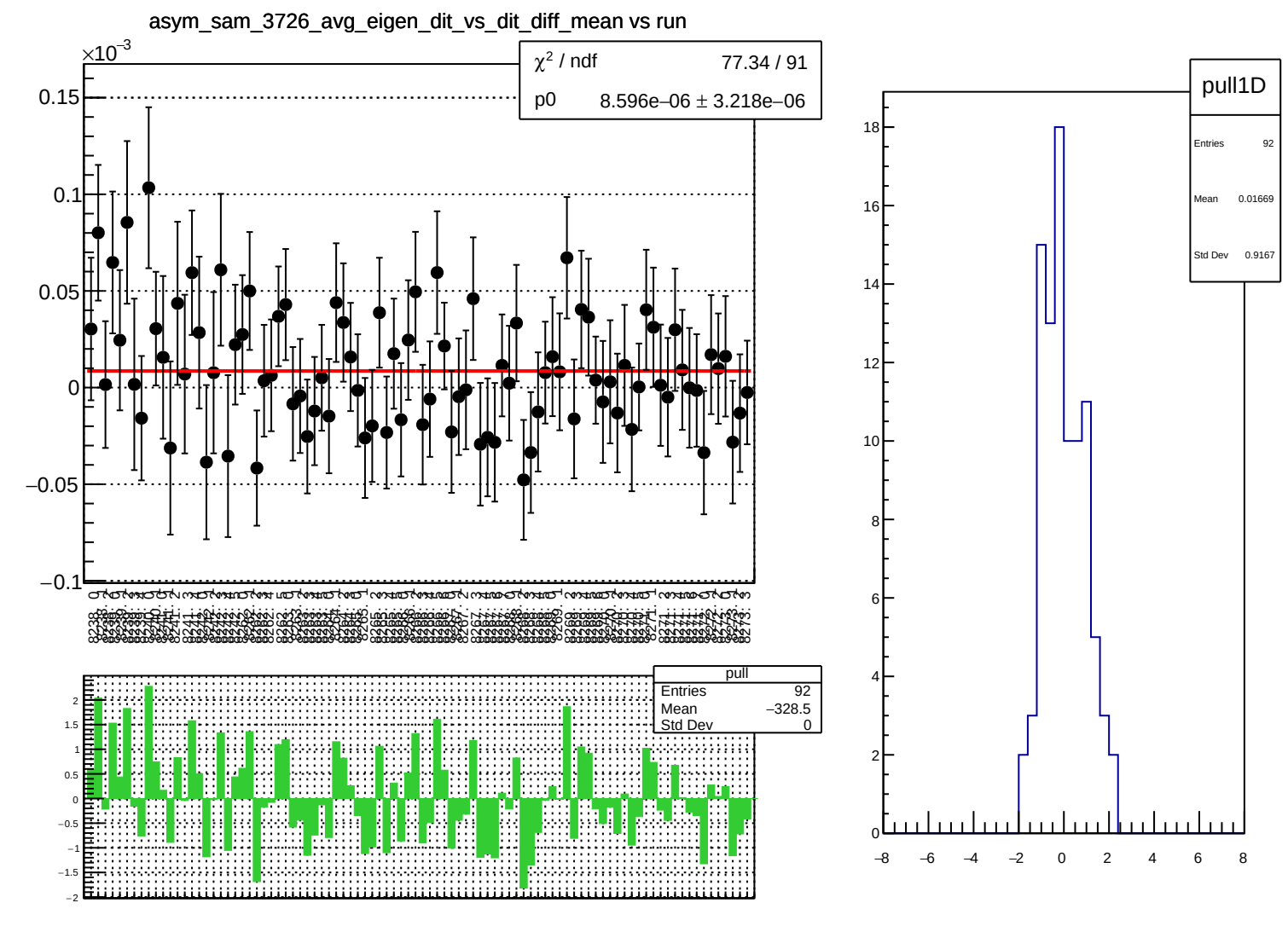

pull1D
Entries 92
Mean 0.01161
Std Dev 1.002

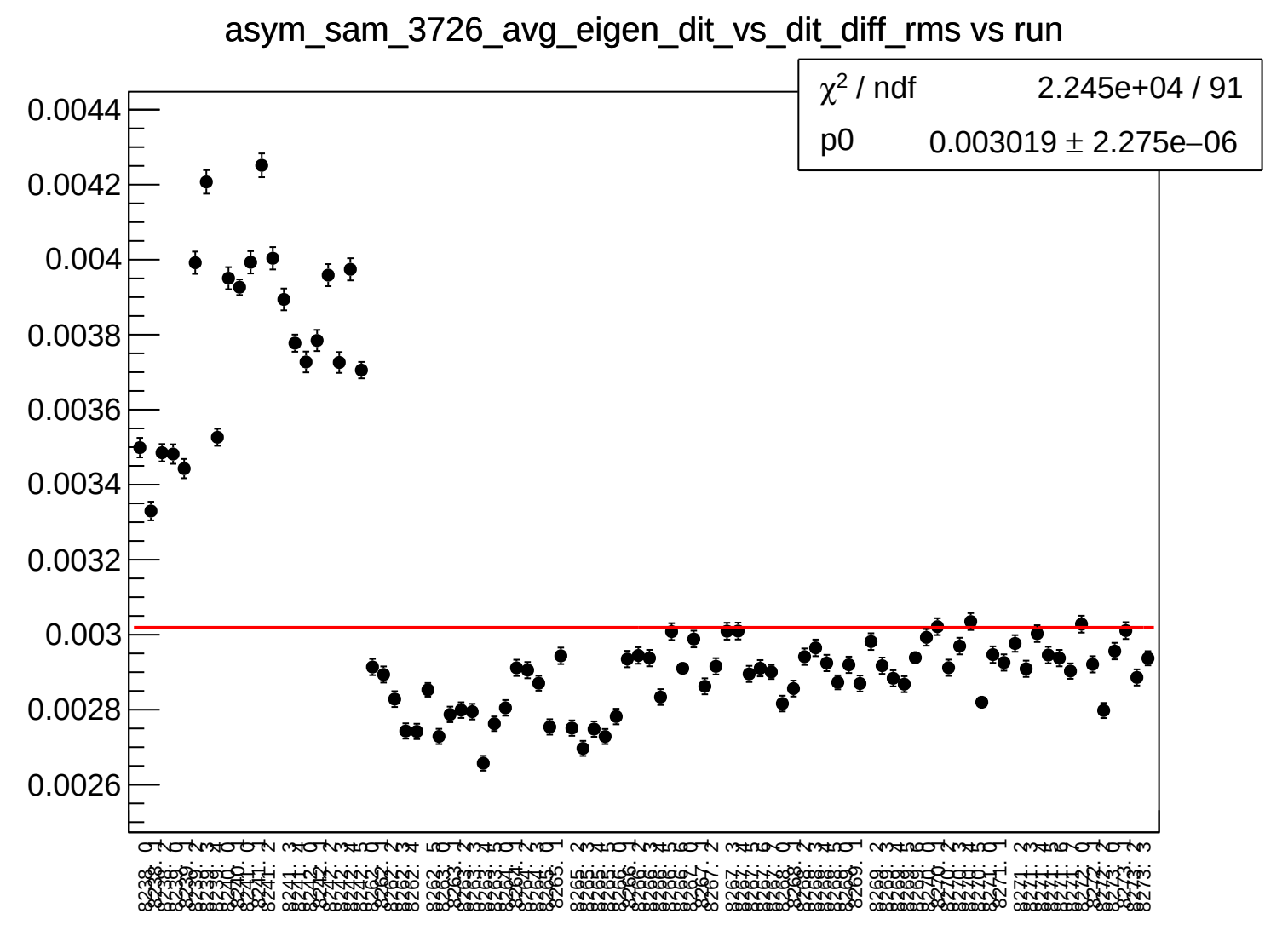

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.002e+05 / 91
p0 37.3 ± 0.02965
140
120
100
80
60
40
20

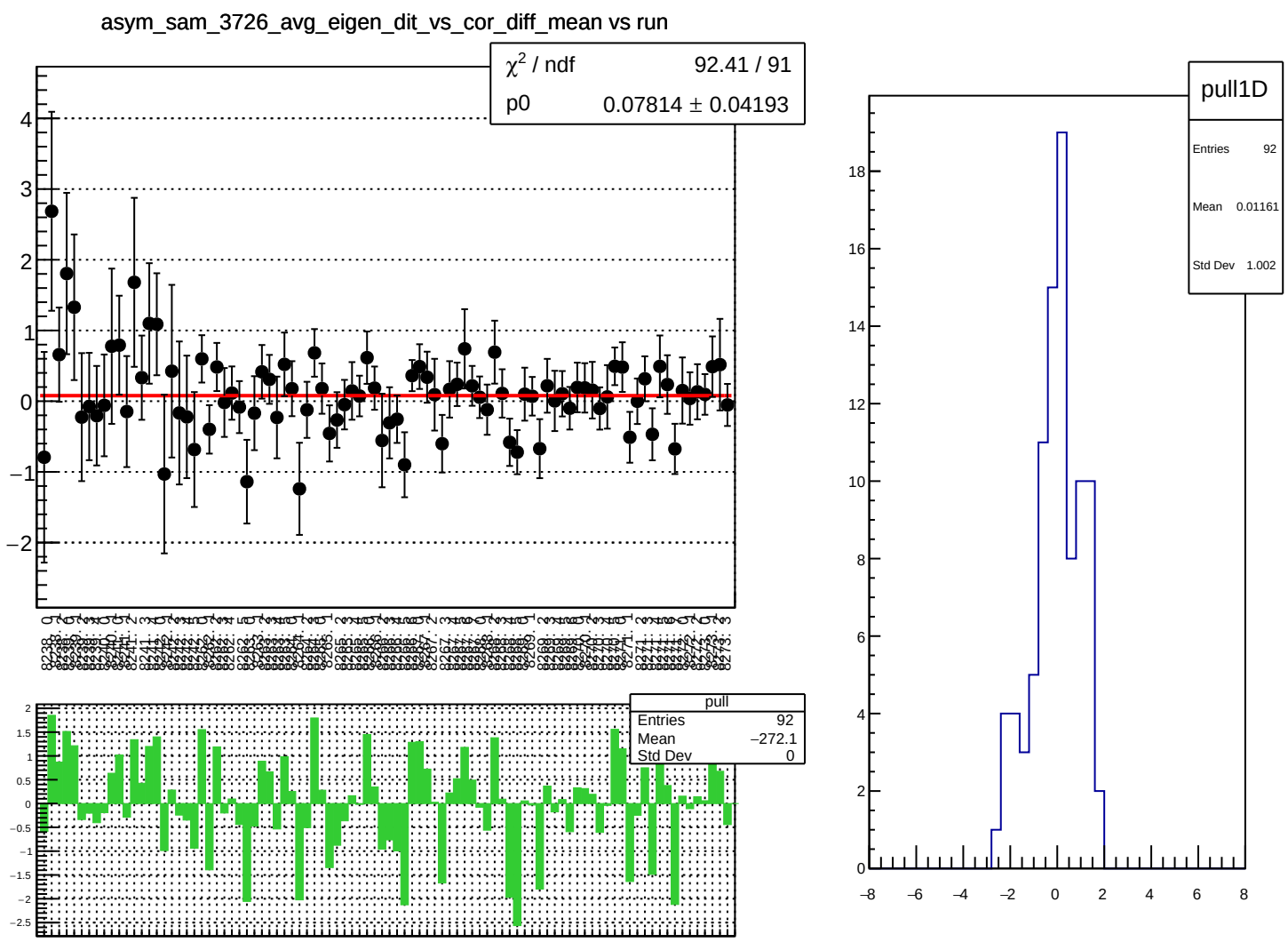

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.41 / 91
p0 0.07813 ± 0.04193
pull
Entries 92
Mean −272.3
Std Dev 0

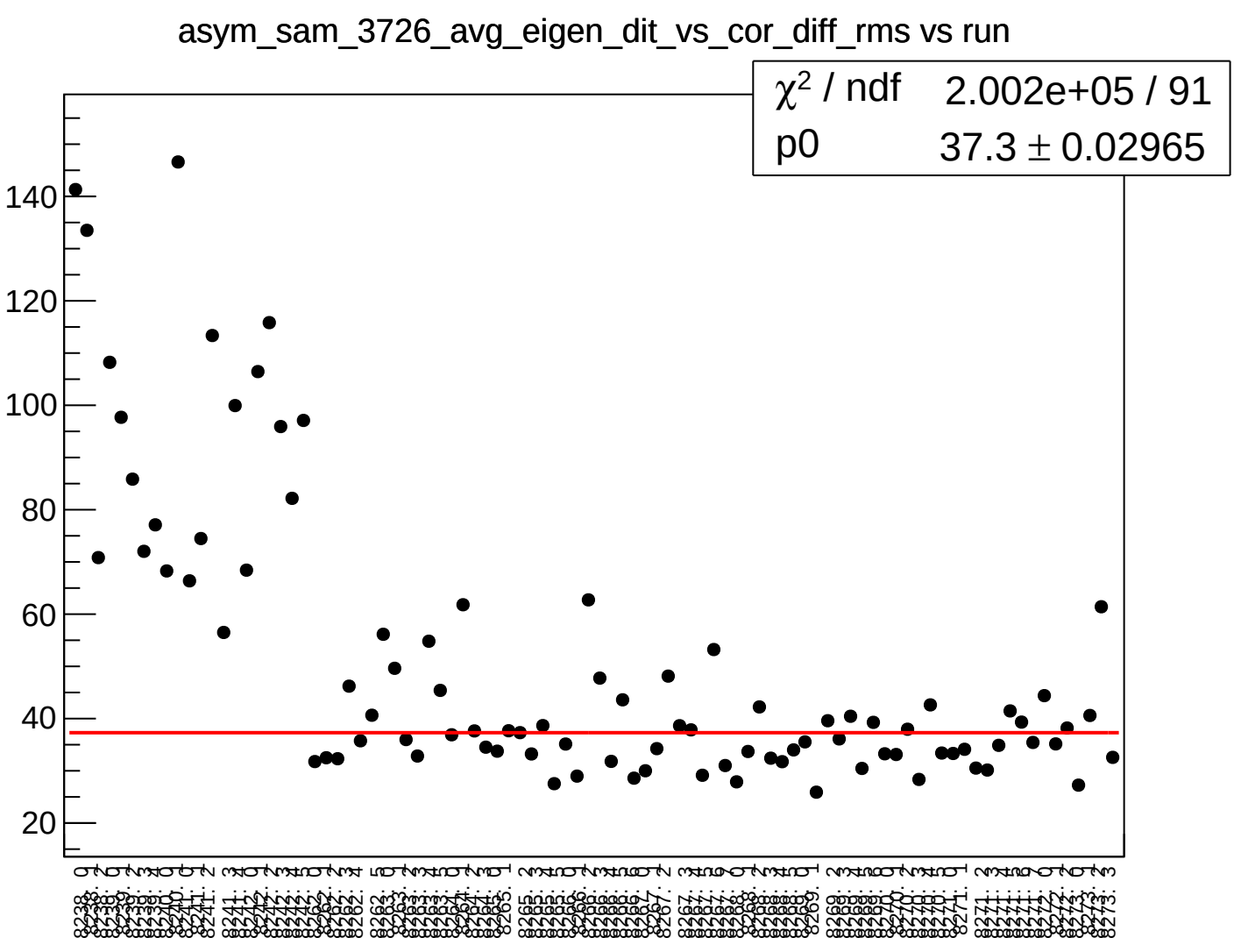

pull1D
Entries 92
Mean 0.01161
Std Dev 1.002

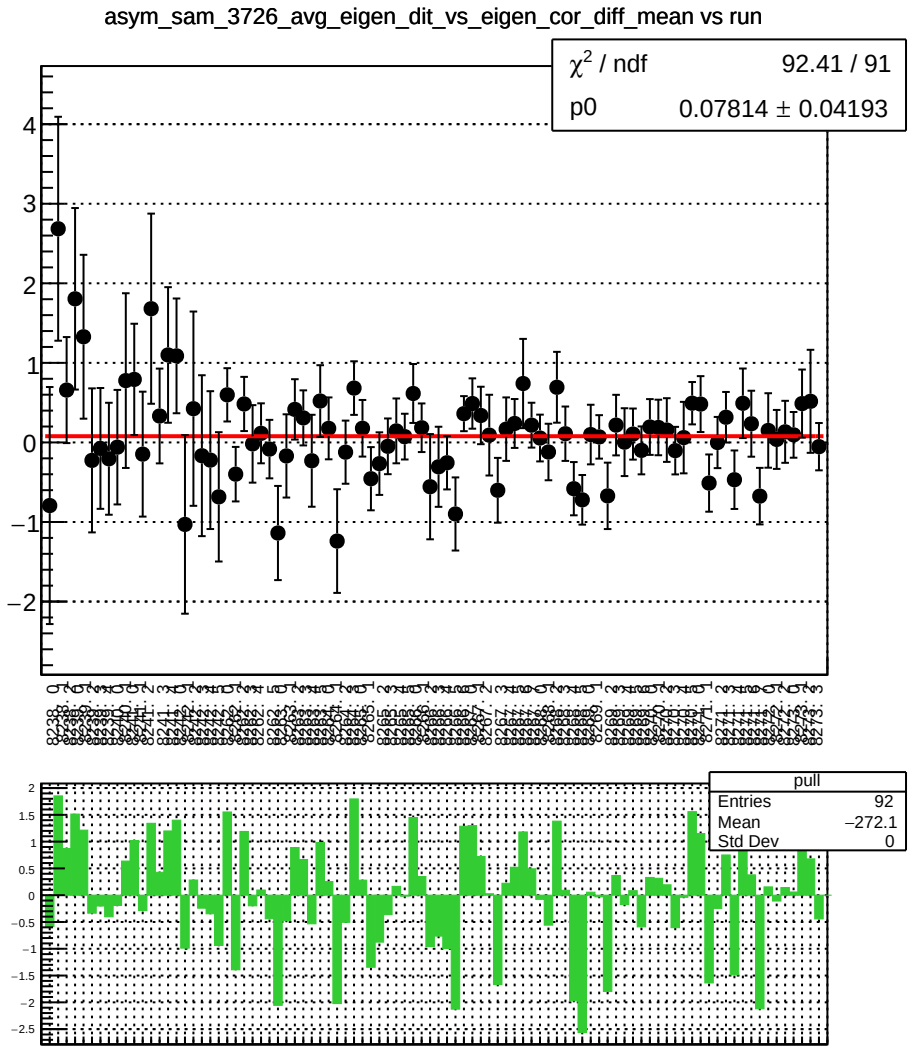

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.002e+05 / 91
p0 37.3 ± 0.02965
140
120
100
80
60
40
20

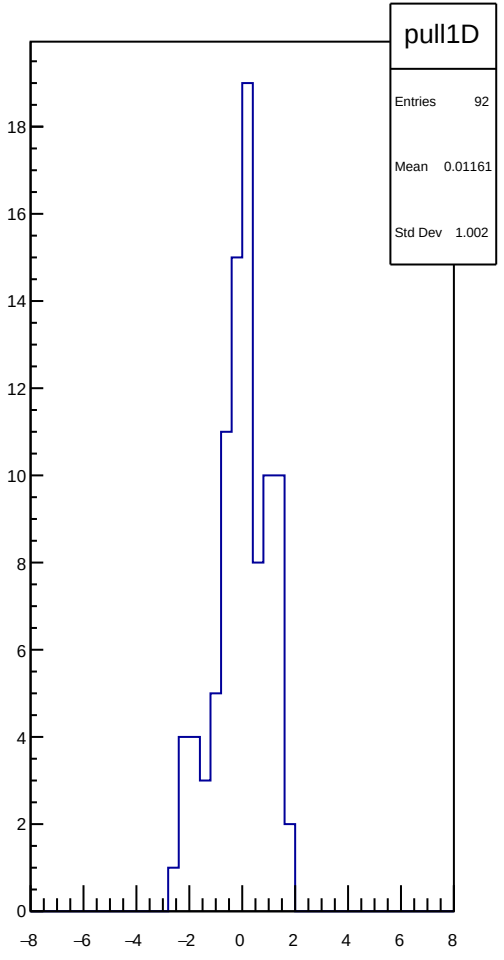

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 77.34 / 91
p0 8.596e−06 ± 3.218e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean −328.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.01669
Std Dev 0.9167
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

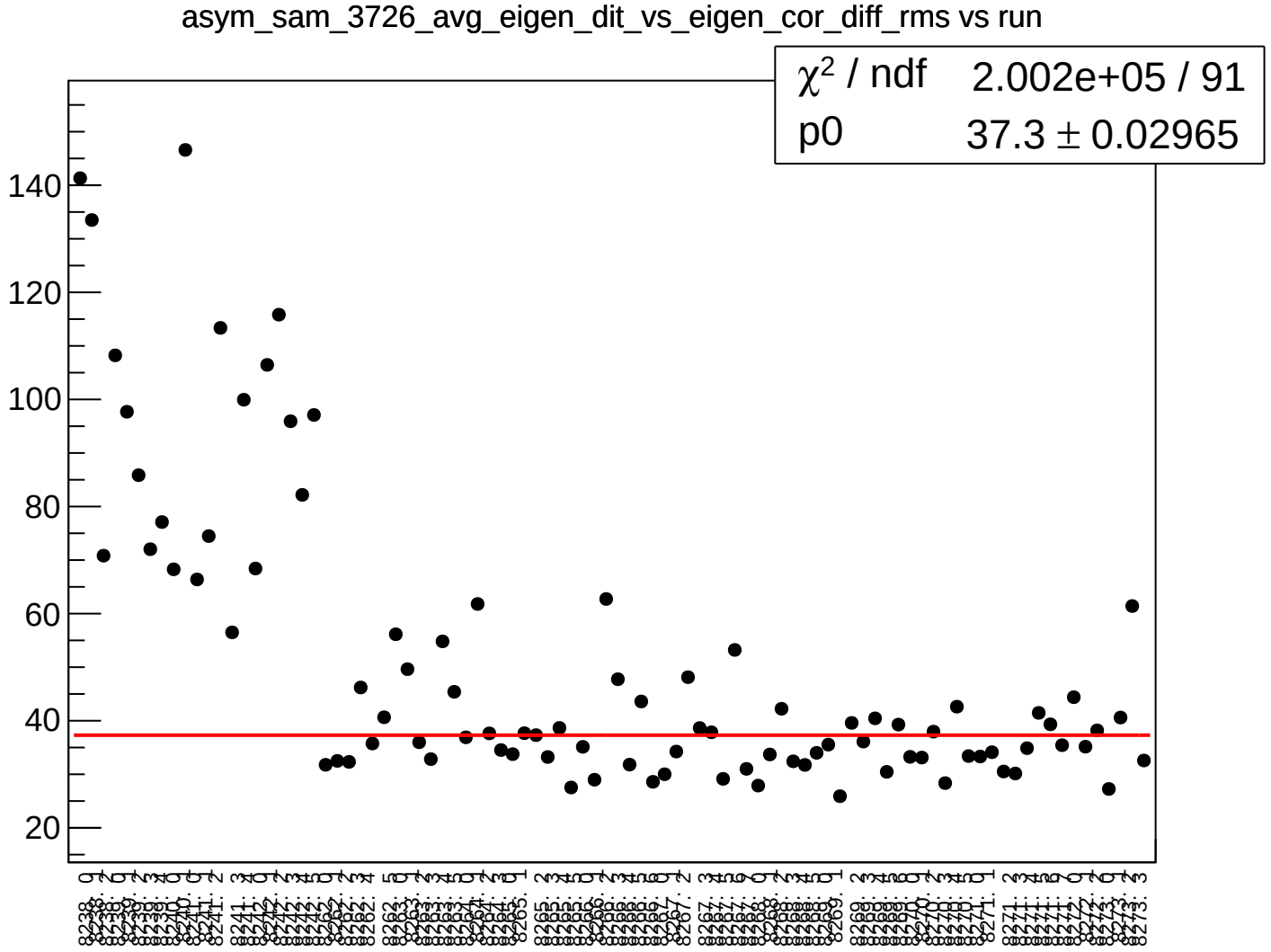

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.245e+04 / 91
p0 0.003019 ± 2.275e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

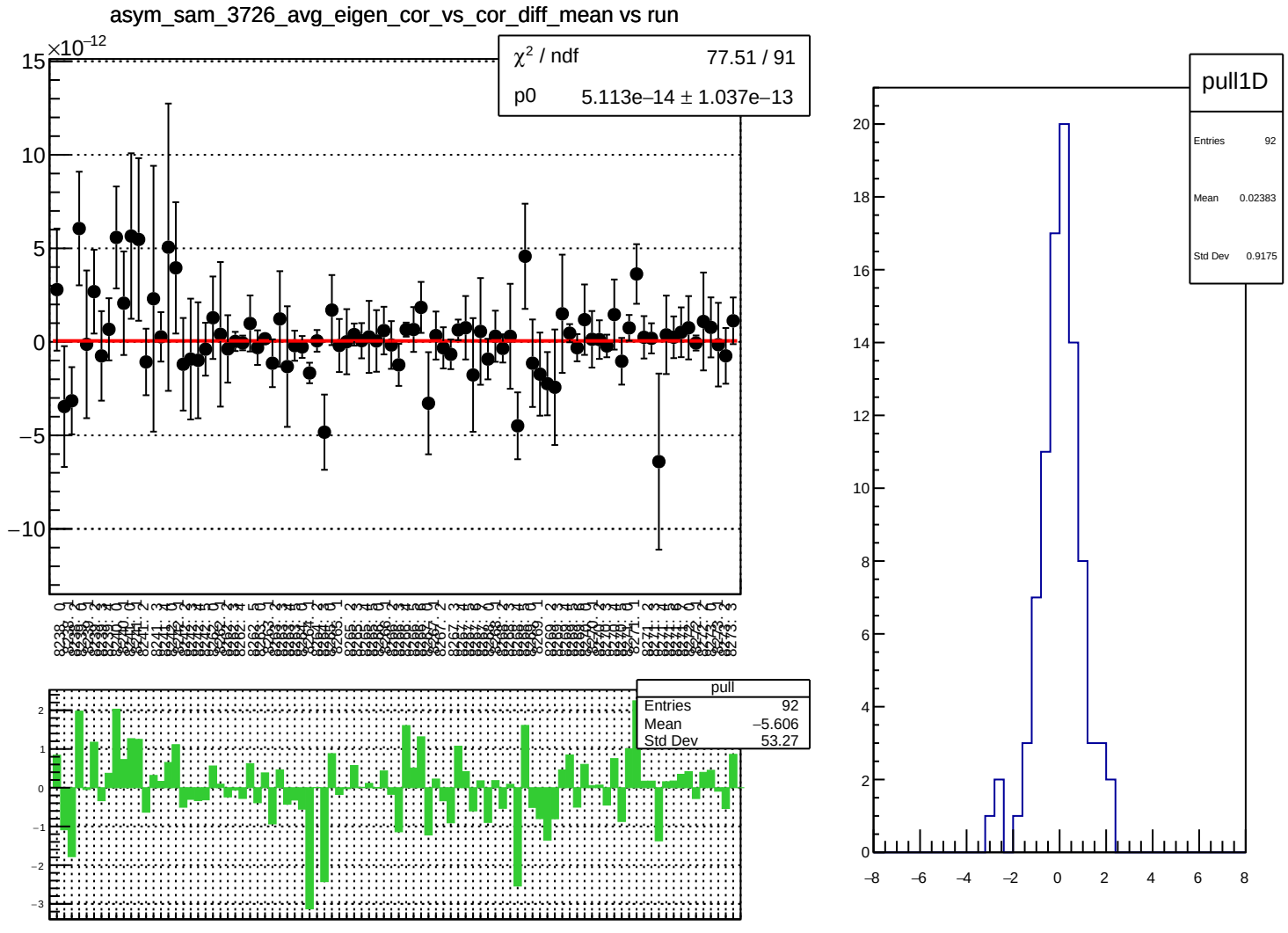

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.41 / 91
p0 0.07814 ± 0.04193
pull
Entries 92
Mean −272.1
Std Dev 0
pull1D
Entries 92
Mean 0.01161
Std Dev 1.002

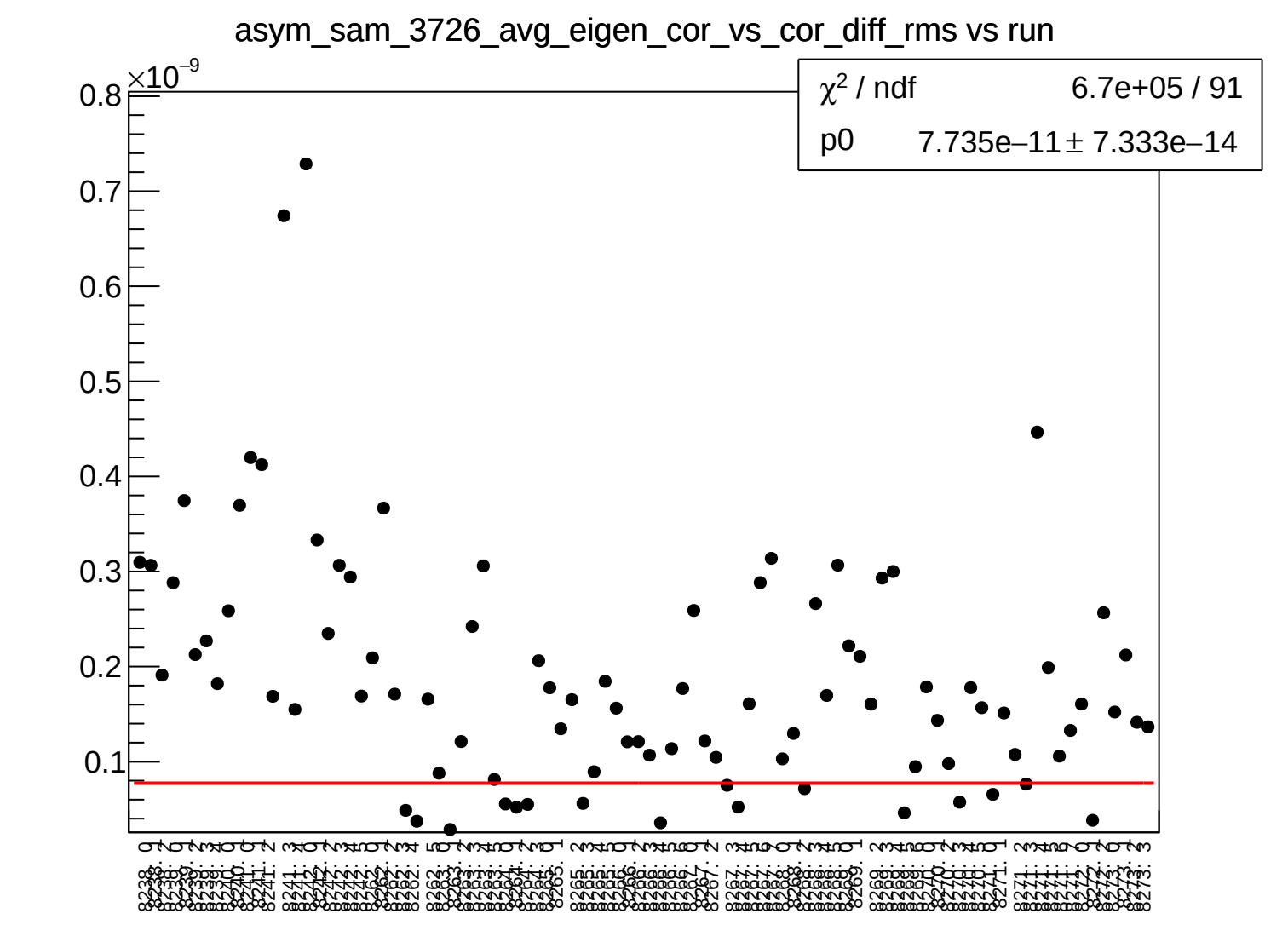

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 2.002e+05 / 91
p0 37.3 ± 0.02965
140
120
100
80
60
40
20

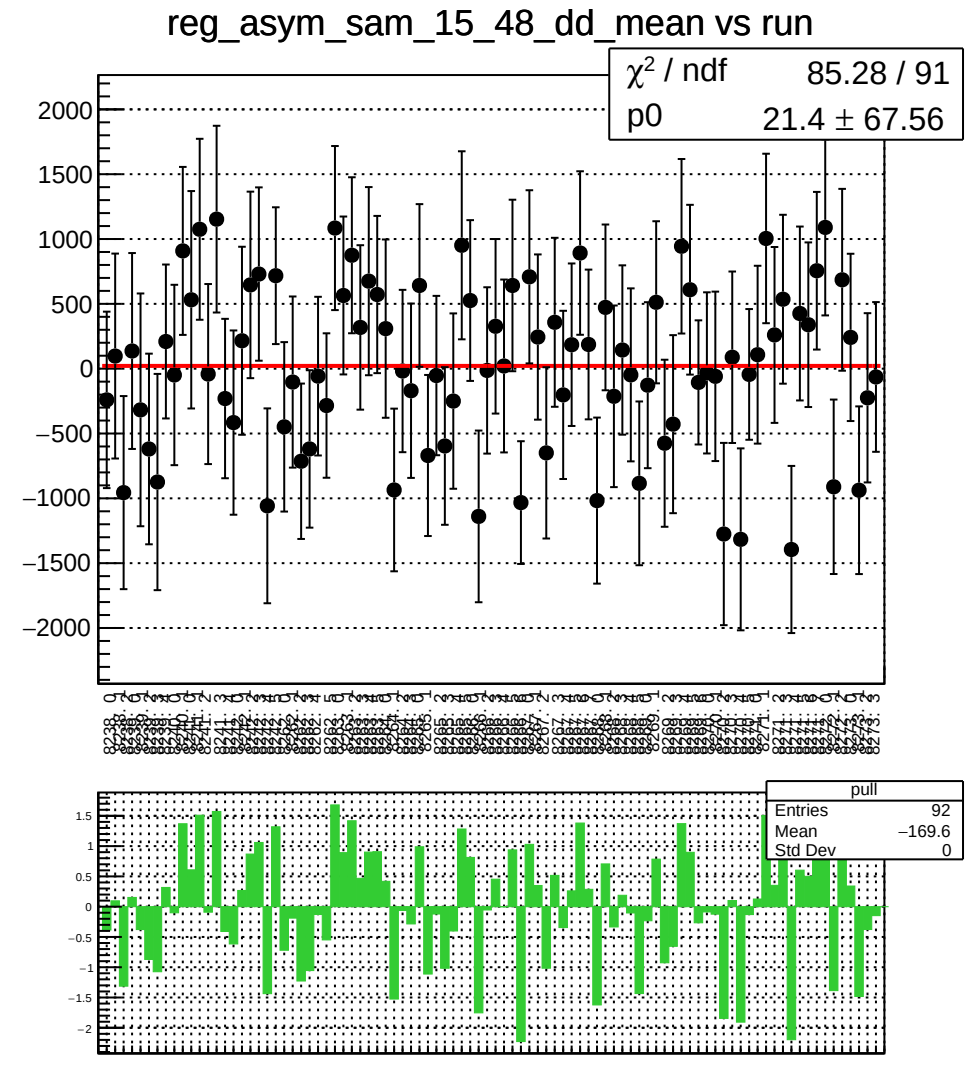

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.41 / 91
p0 0.07814 ± 0.04193
pull
Entries 92
Mean −272.1
Std Dev 0

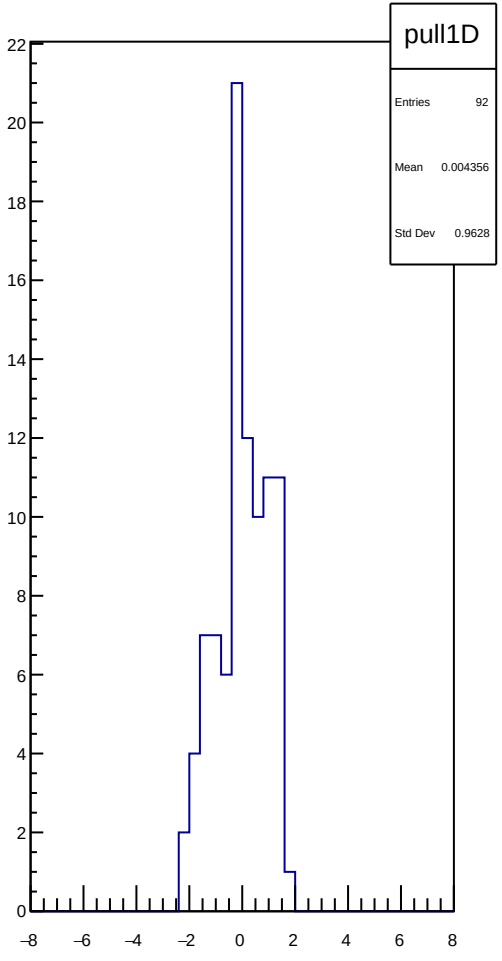

pull1D
Entries 92
Mean 0.01161
Std Dev 1.002

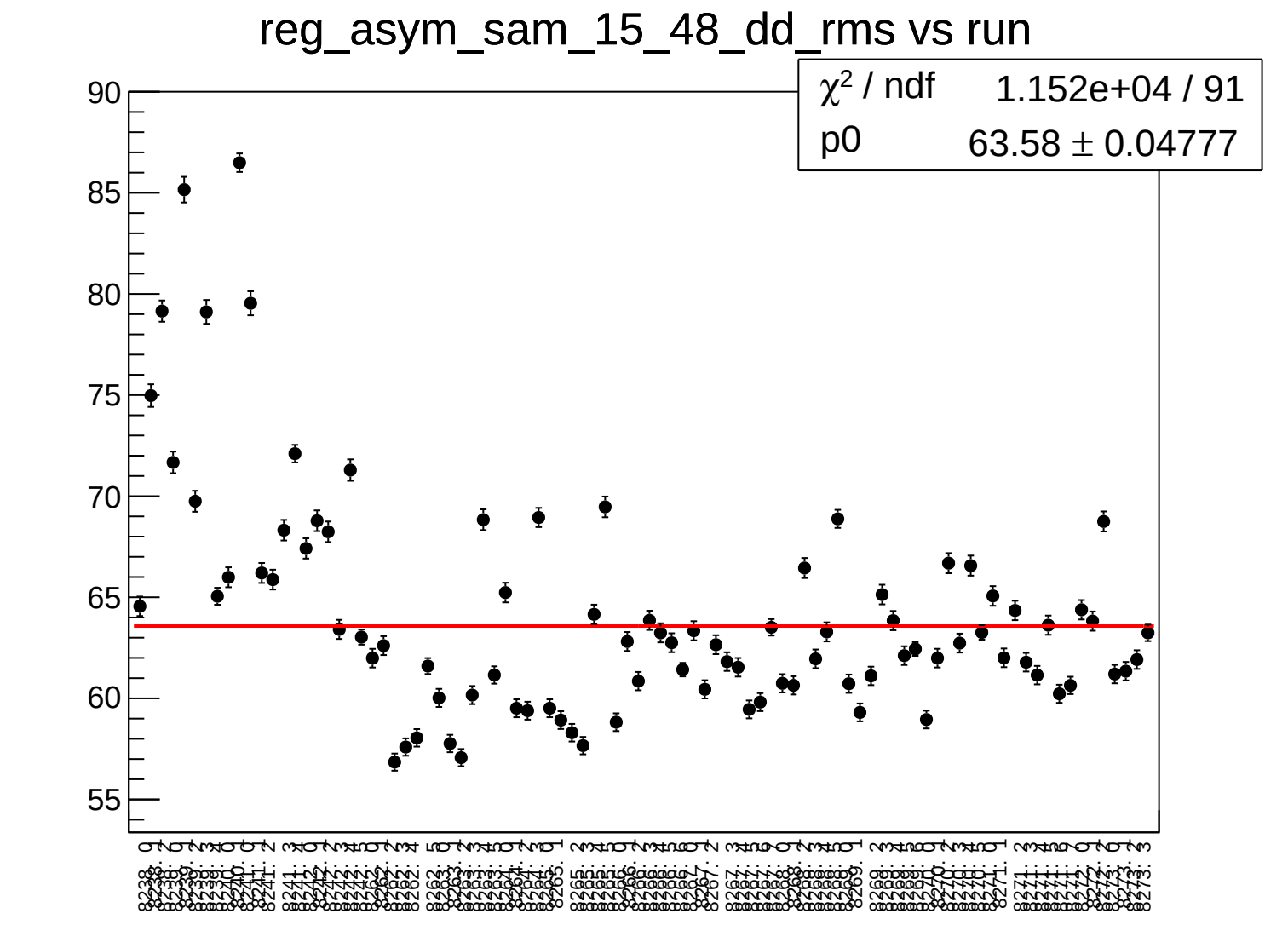

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.002e+05 / 91
p0 37.3 ± 0.02965
140
120
100
80
60
40
20

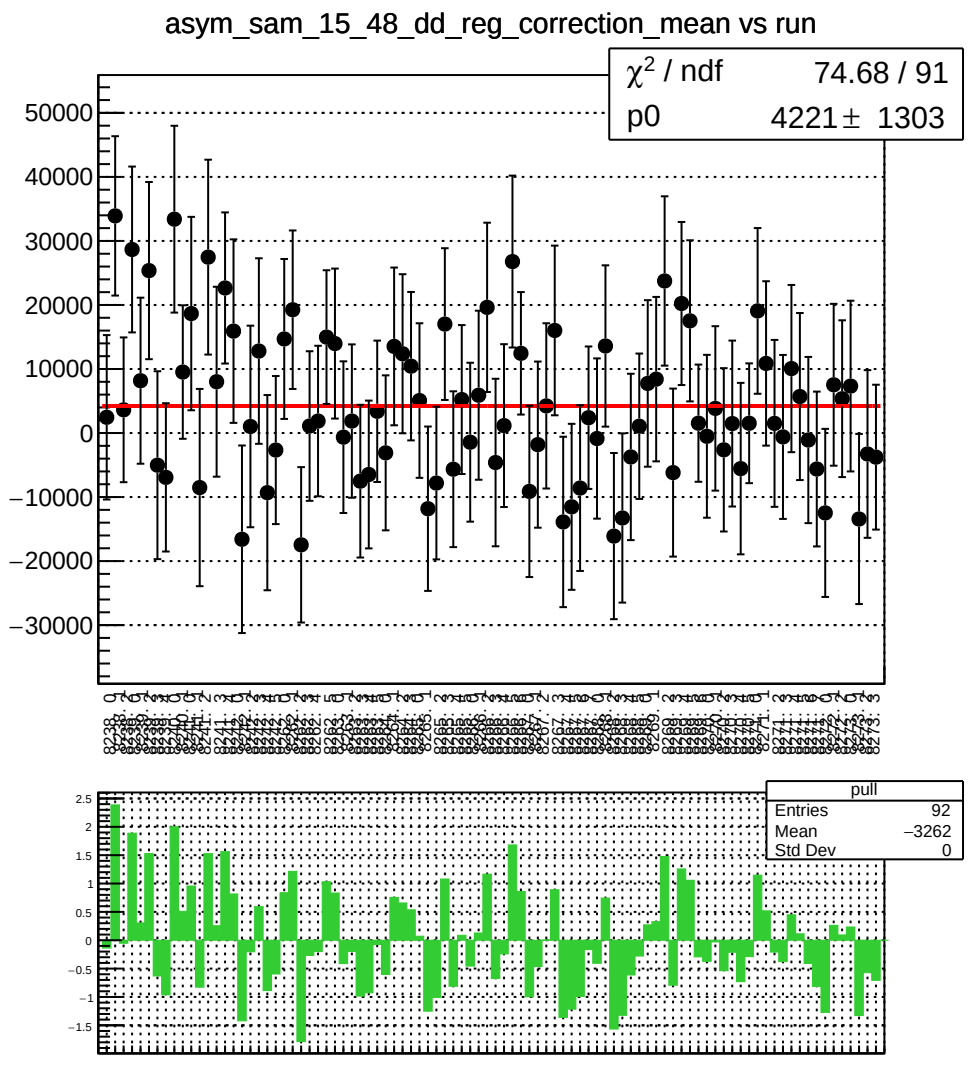

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.51 / 91
p0 5.113e−14 ± 1.037e−13
pull
Entries 92
Mean −5.606
Std Dev 53.27
pull1D
Entries 92
Mean 0.02383
Std Dev 0.9175

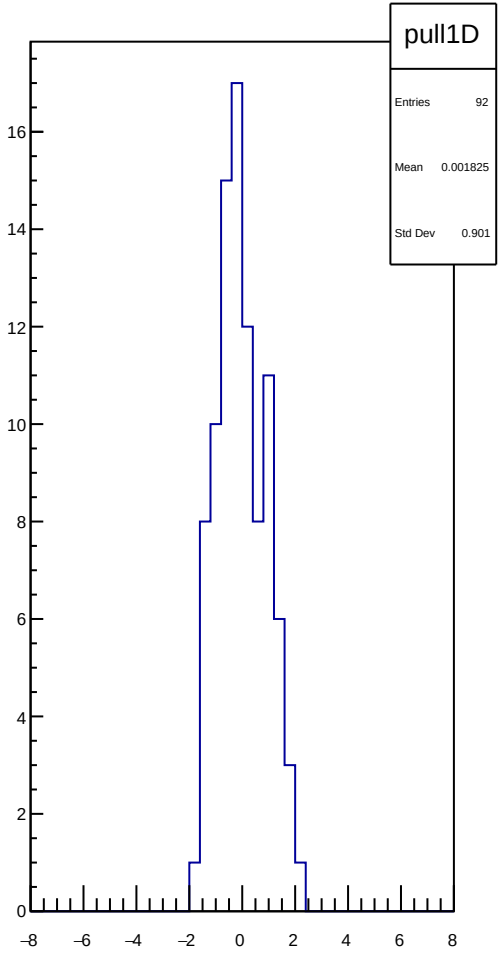

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 6.7e+05 / 91
p0 7.735e−11 ± 7.333e−14

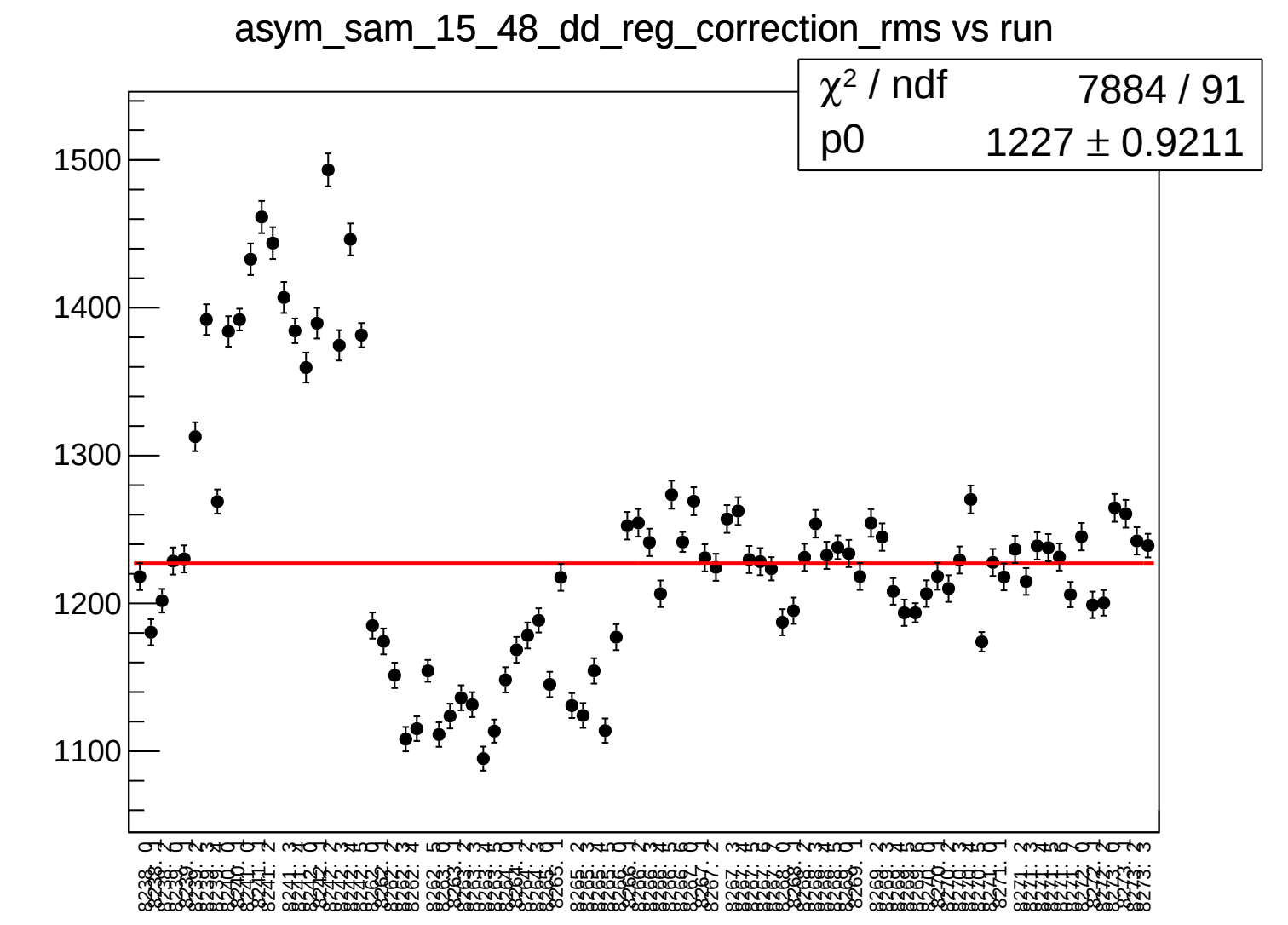

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 85.28 / 91
p0 21.4 ± 67.56
pull
Entries 92
Mean −169.6
Std Dev 0

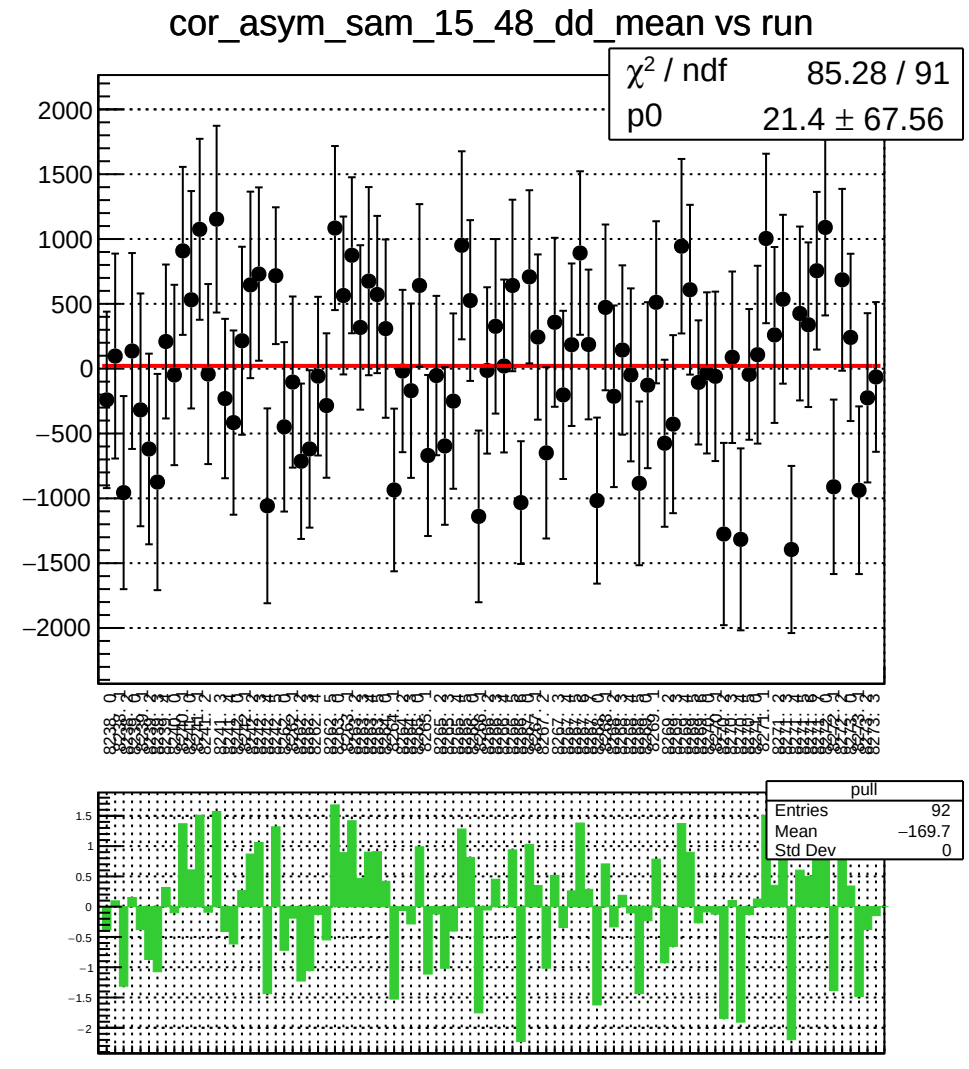

pull1D
Entries 92
Mean 0.004356
Std Dev 0.9628

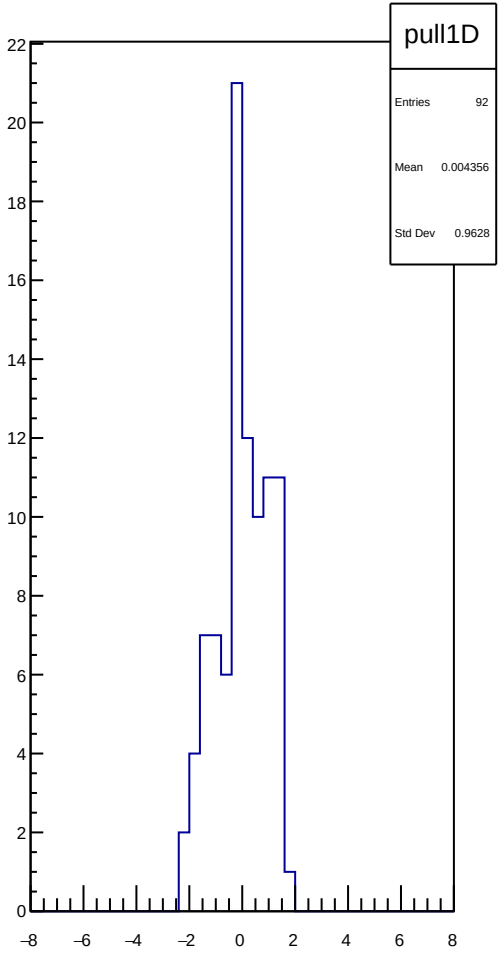

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.152e+04 / 91
p0 63.58 ± 0.04777
90
85
80
75
70
65
60
55

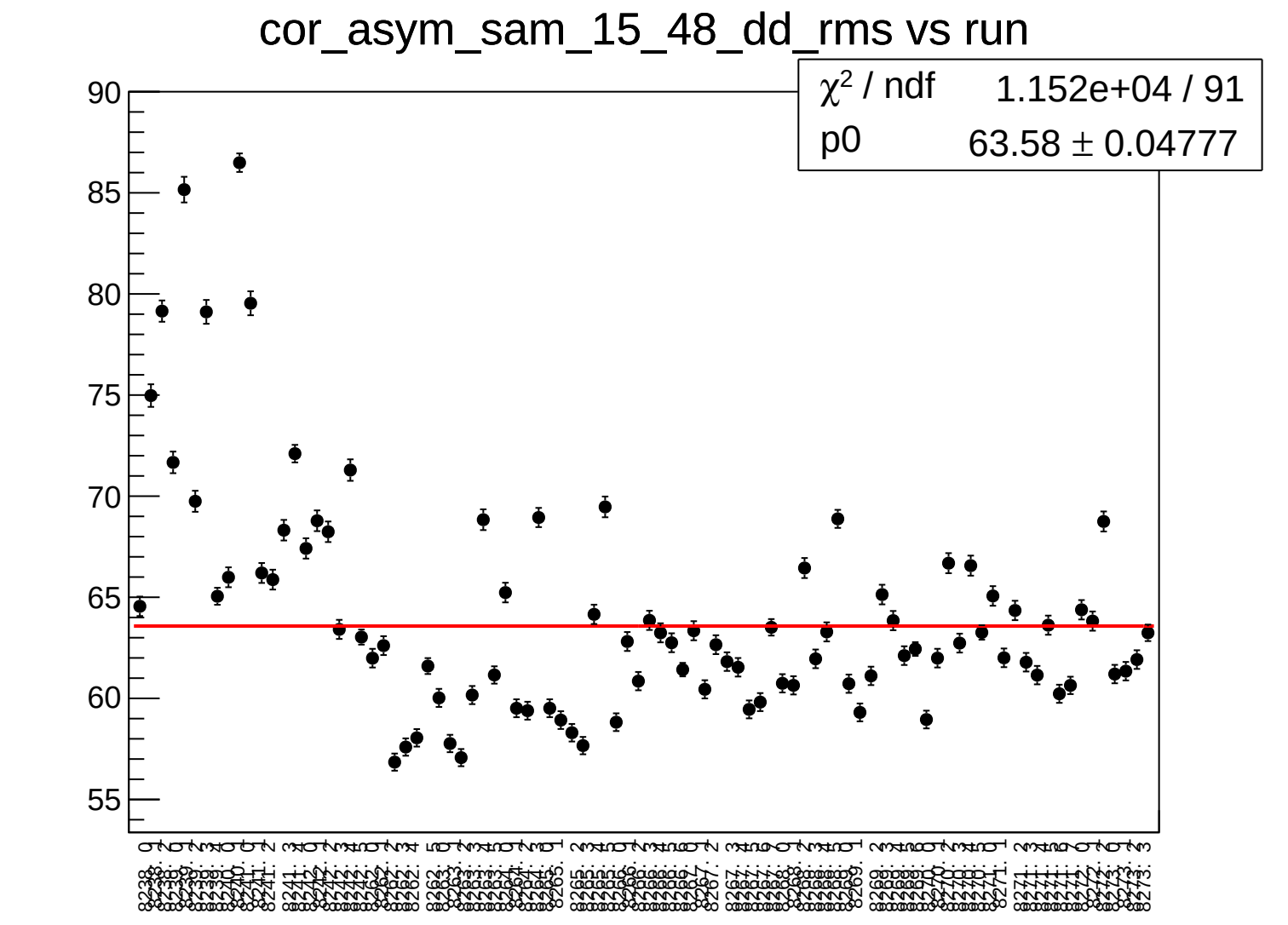

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 74.68 / 91
p0 4221 ± 1303
pull
Entries 92
Mean −3262
Std Dev 0

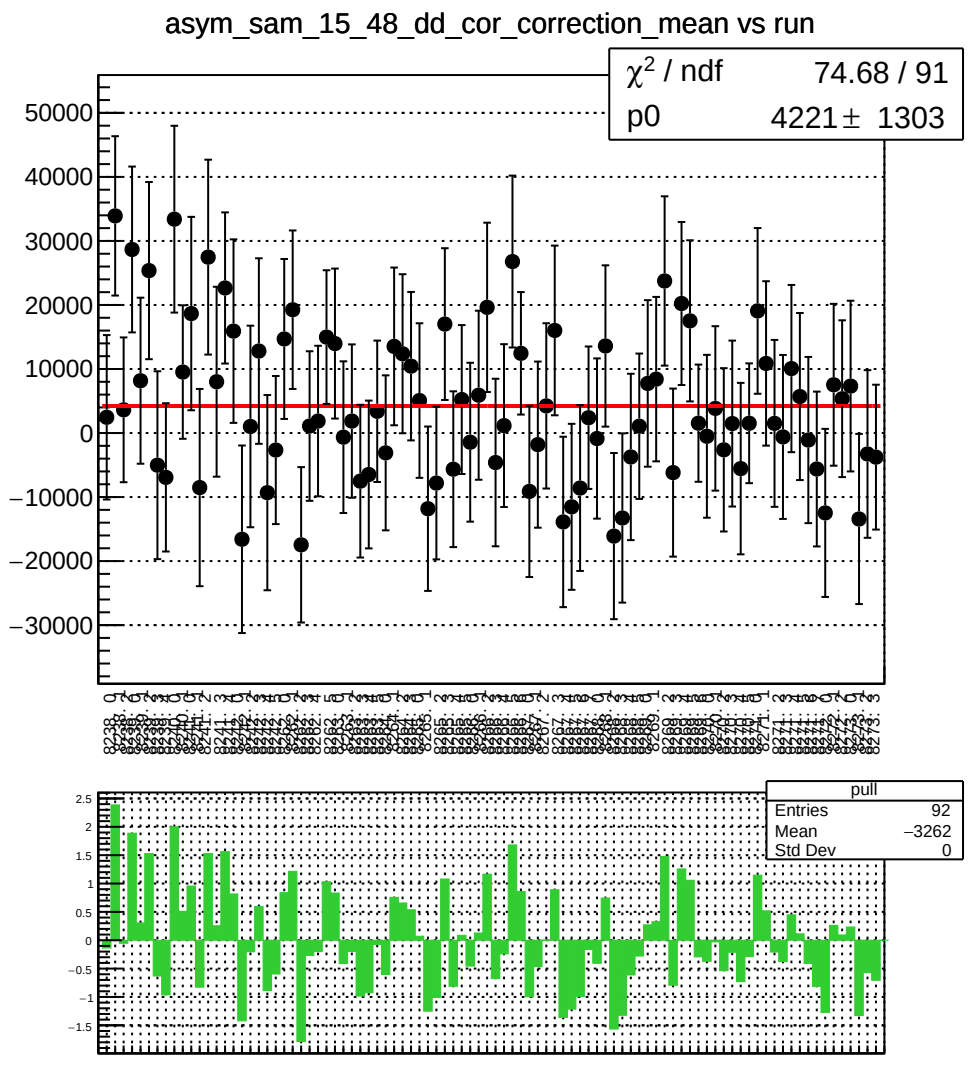

pull1D
Entries 92
Mean 0.001825
Std Dev 0.901

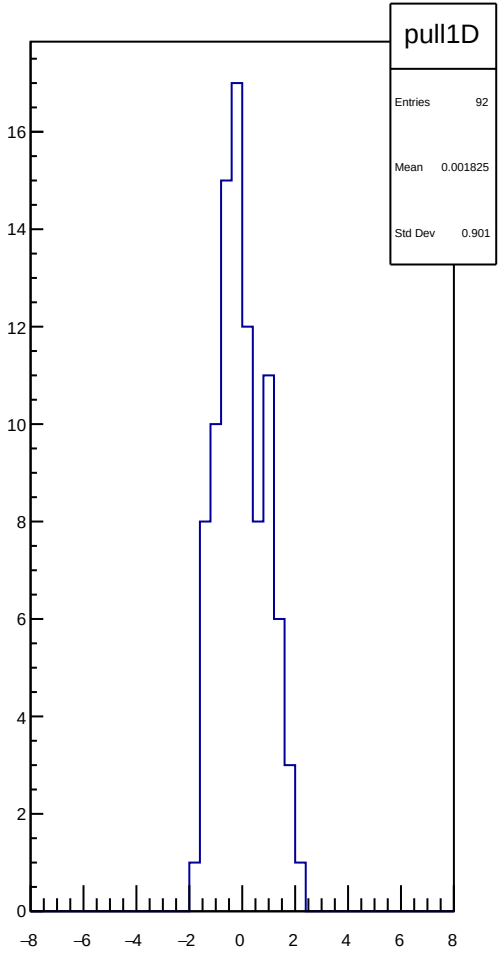

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 7884 / 91
p0 1227 ± 0.9211
1500
1400
1300
1200
1100

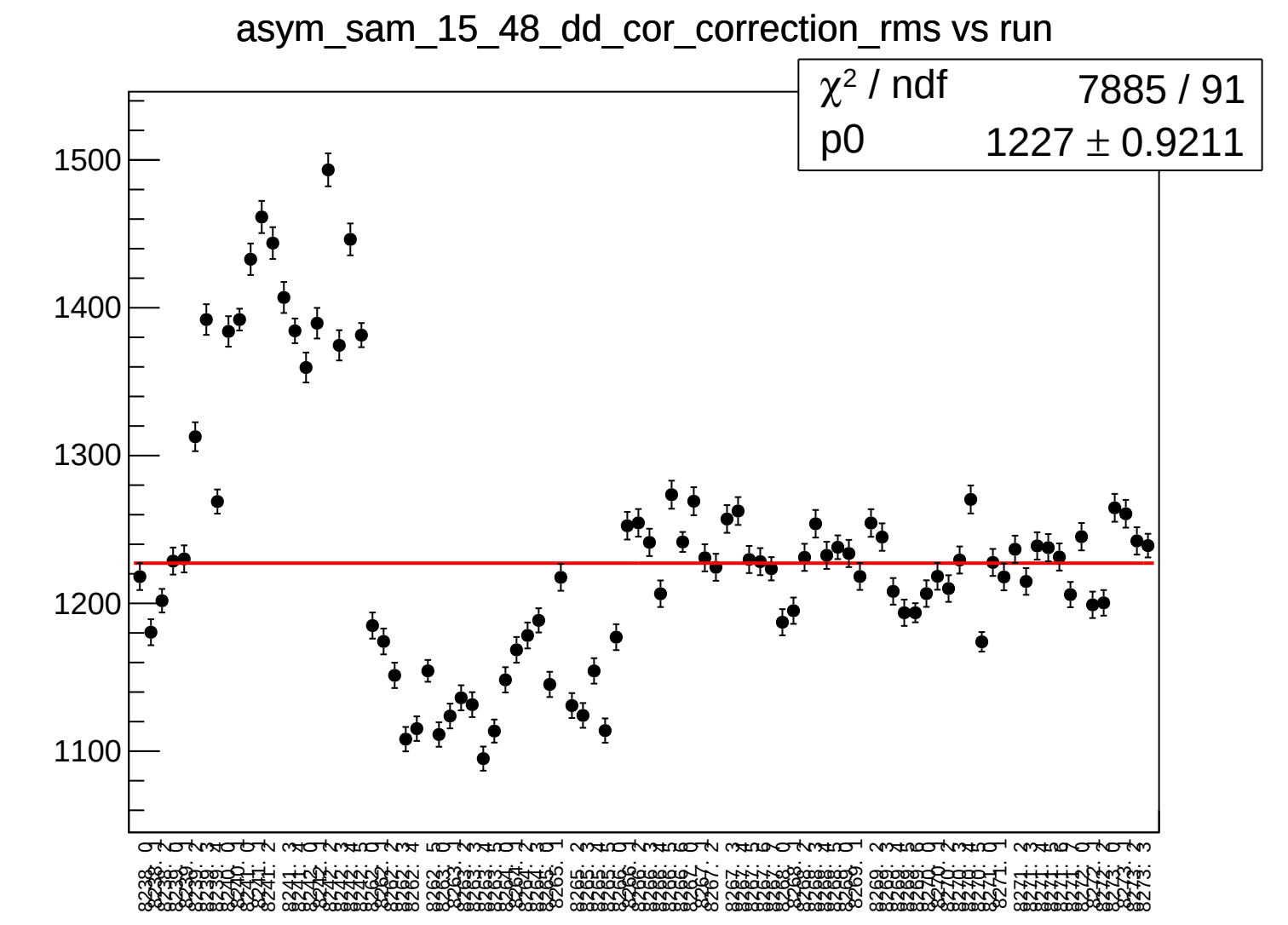

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 85.28 / 91
p0 21.4 ± 67.56
pull
Entries 92
Mean −169.7
Std Dev 0

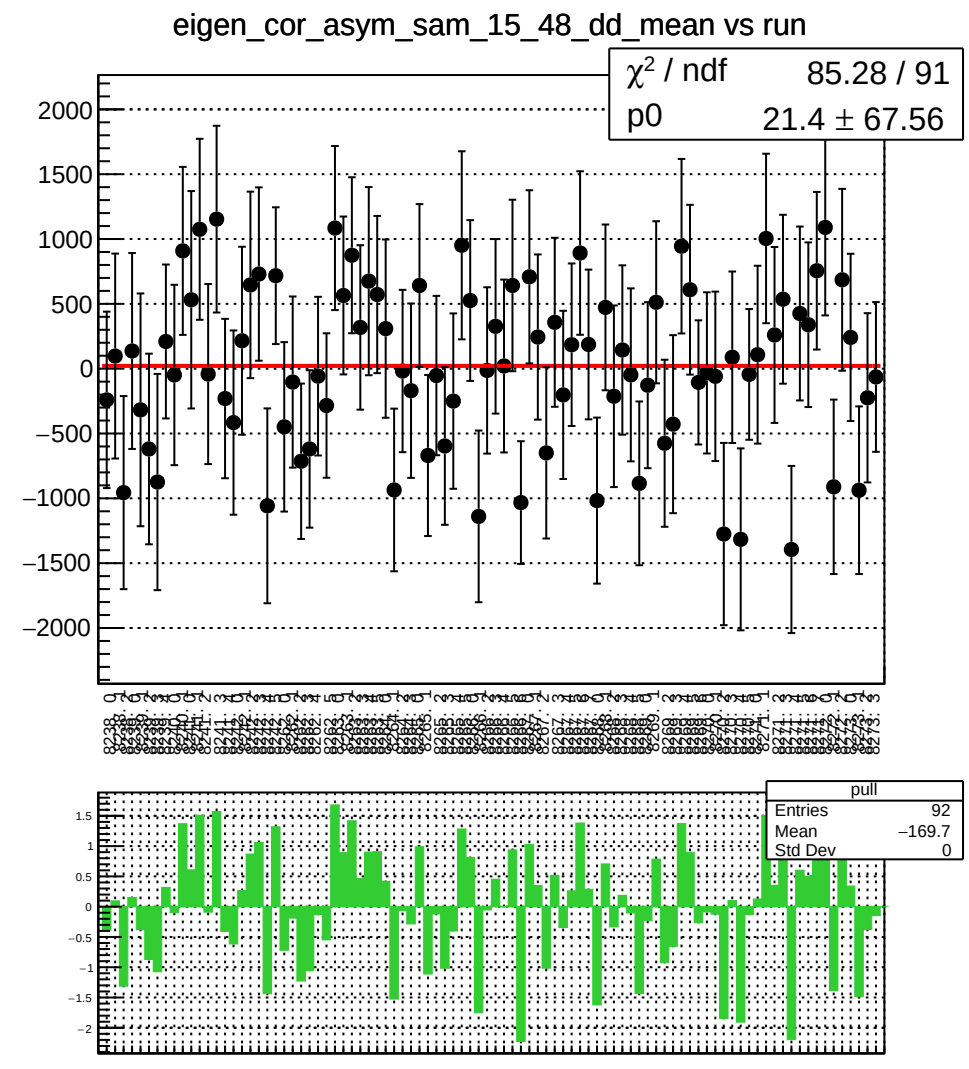

pull1D
Entries 92
Mean 0.004356
Std Dev 0.9628

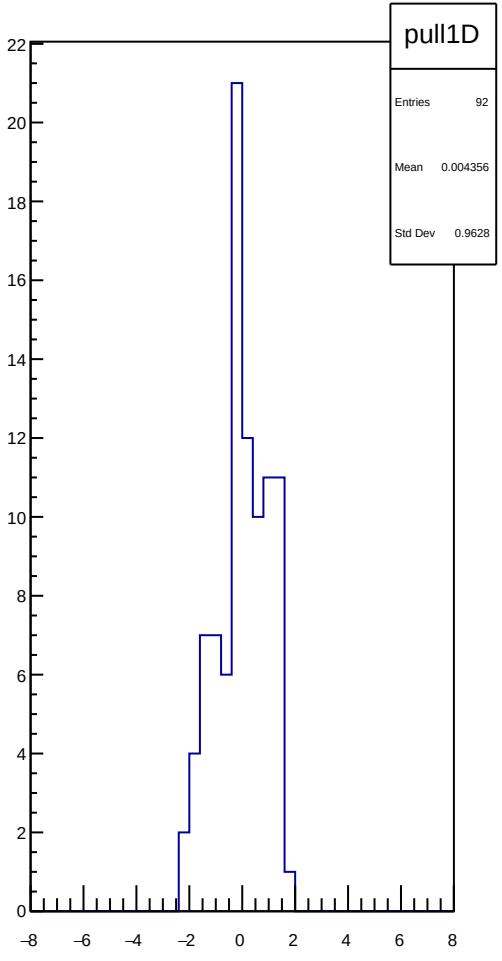

cor_asym_sam_15_48_dd_rms vs run
$\chi^2$ / ndf 1.152e+04 / 91
p0 63.58 ± 0.04777
90
85
80
75
70
65
60
55

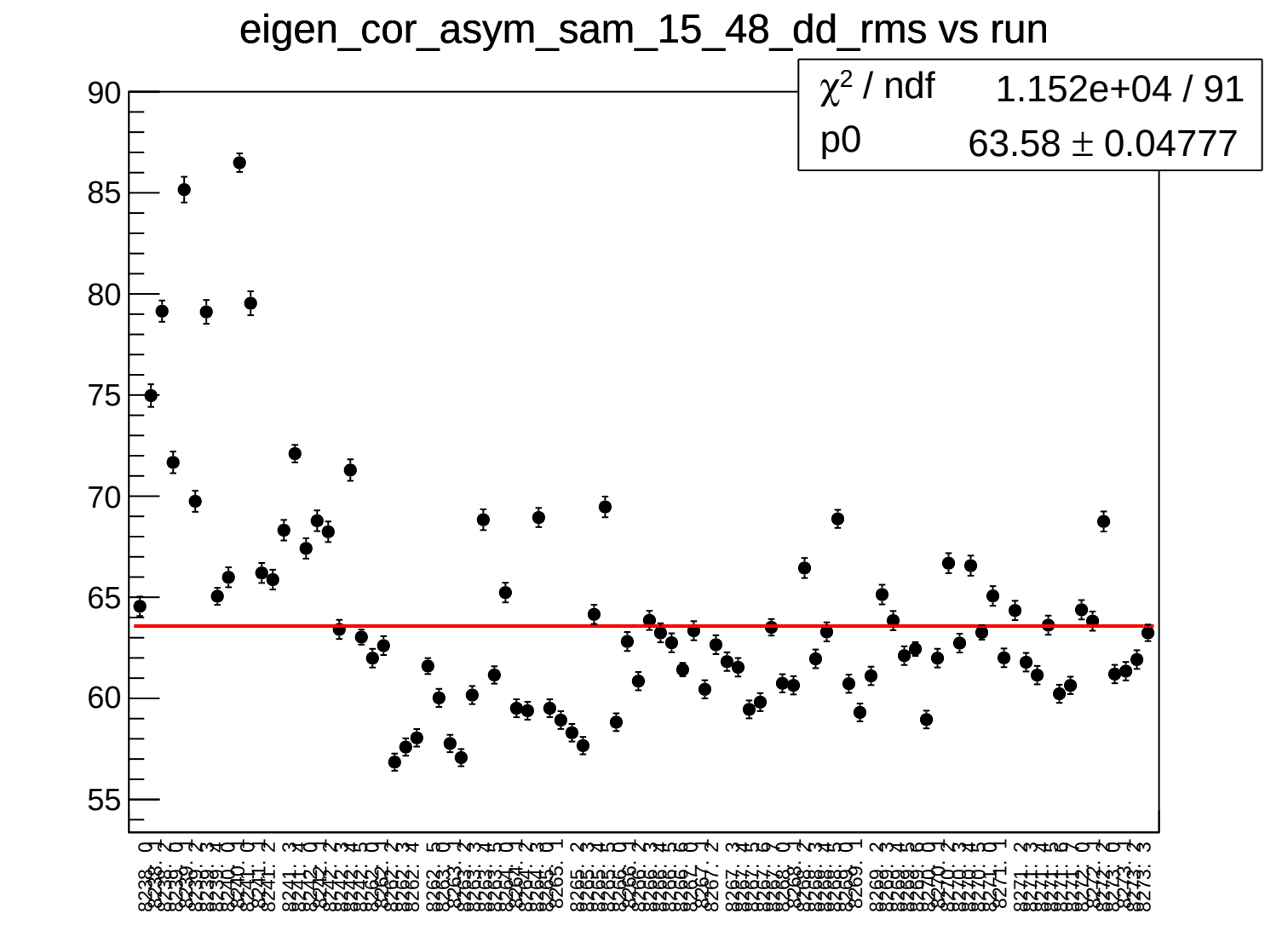

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 74.68 / 91
p0 4221 ± 1303
pull
Entries 92
Mean −3262
Std Dev 0

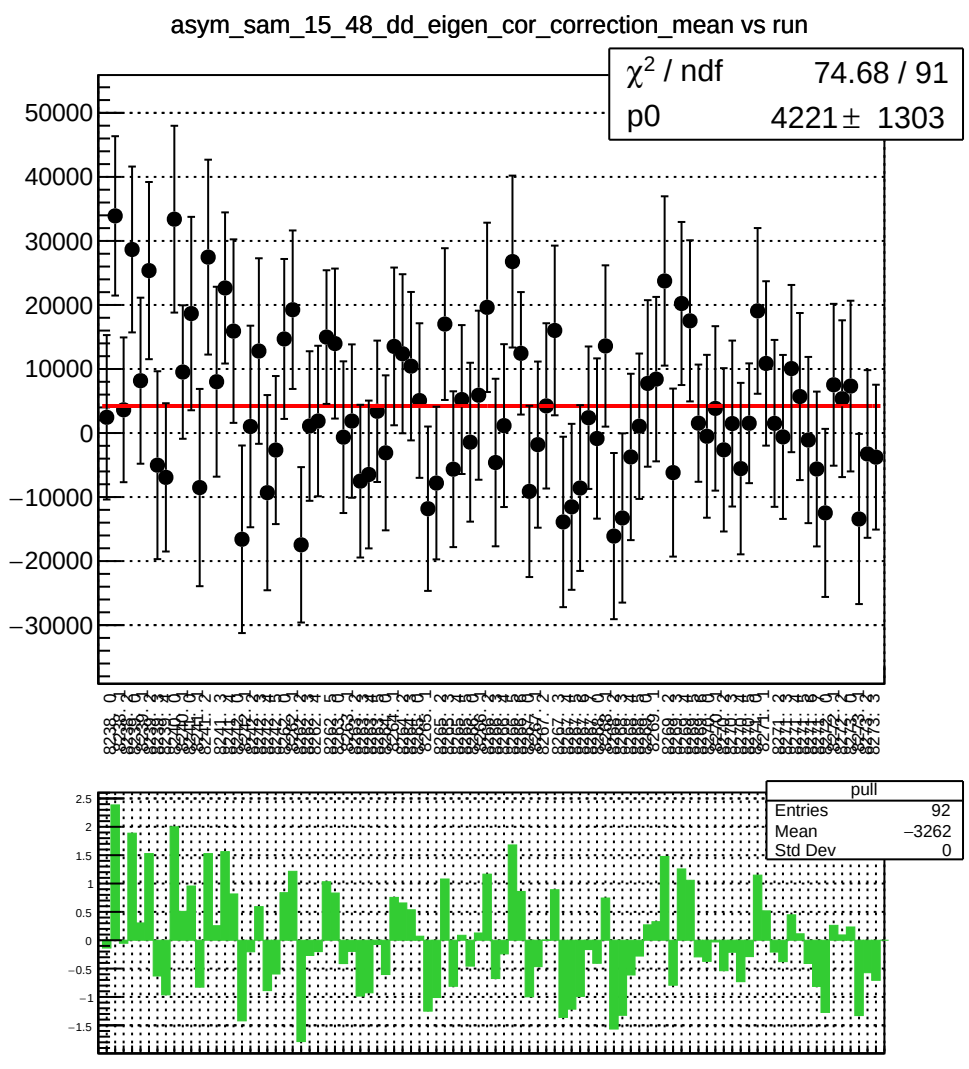

pull1D
Entries 92
Mean 0.001825
Std Dev 0.901

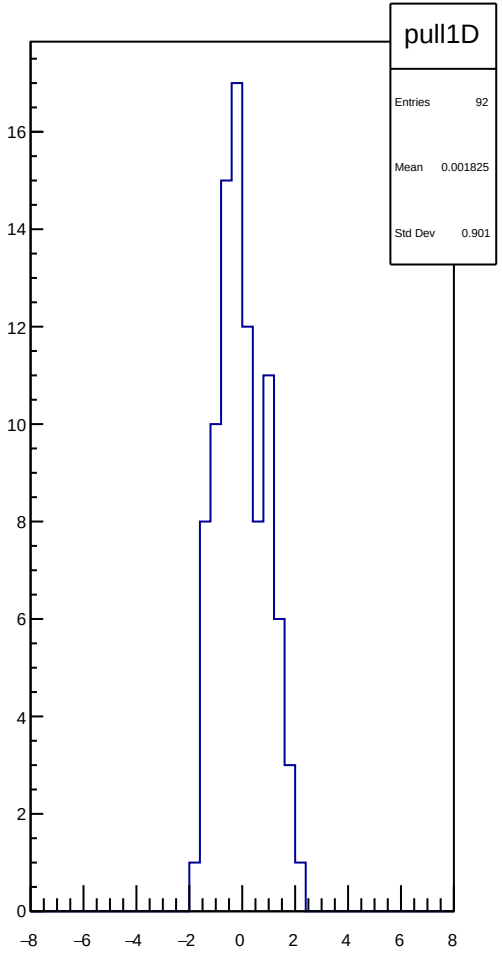

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 7885 / 91
p0 1227 ± 0.9211
1500
1400
1300
1200
1100

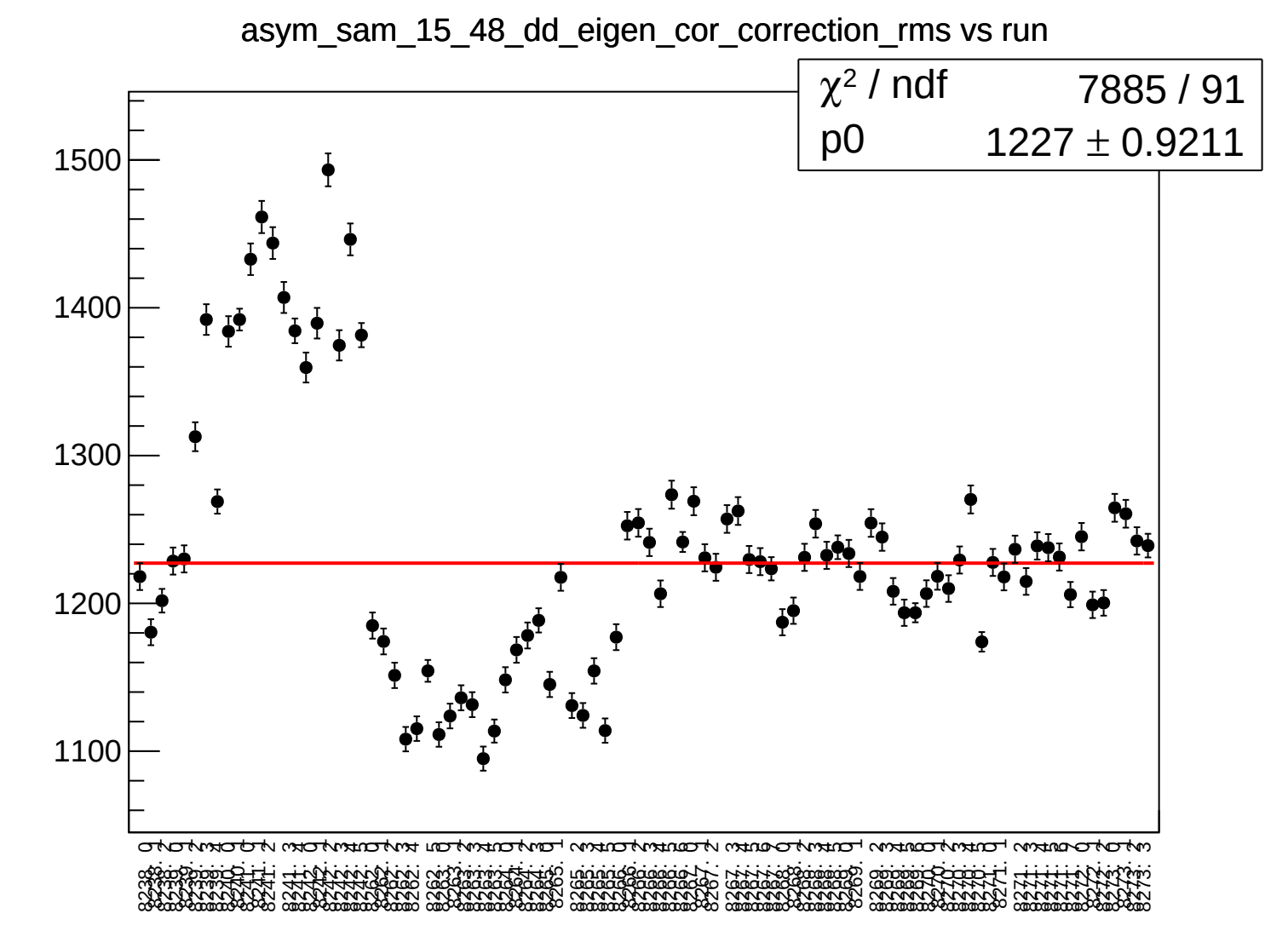

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 85.28 / 91
p0 21.4 ± 67.56
pull
Entries 92
Mean −169.7
Std Dev 0

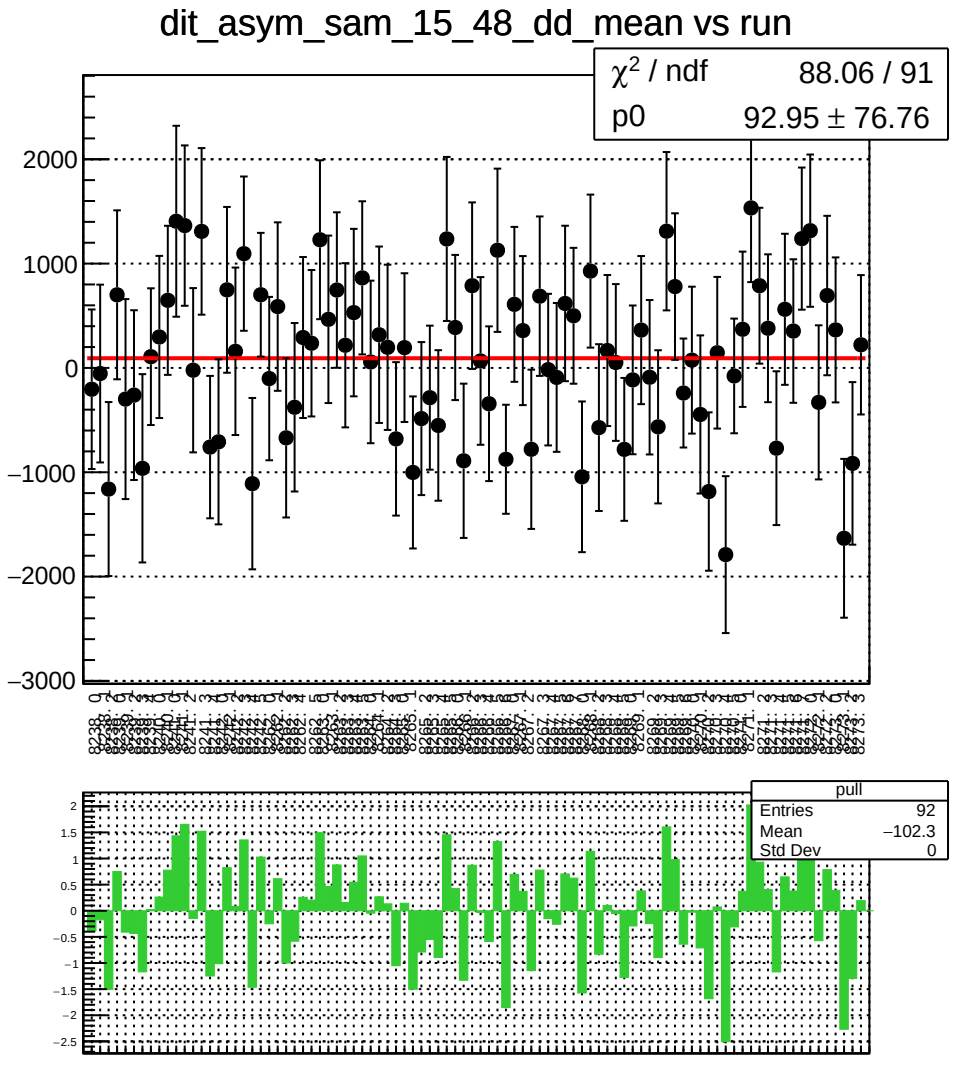

pull1D
Entries 92
Mean 0.004356
Std Dev 0.9628

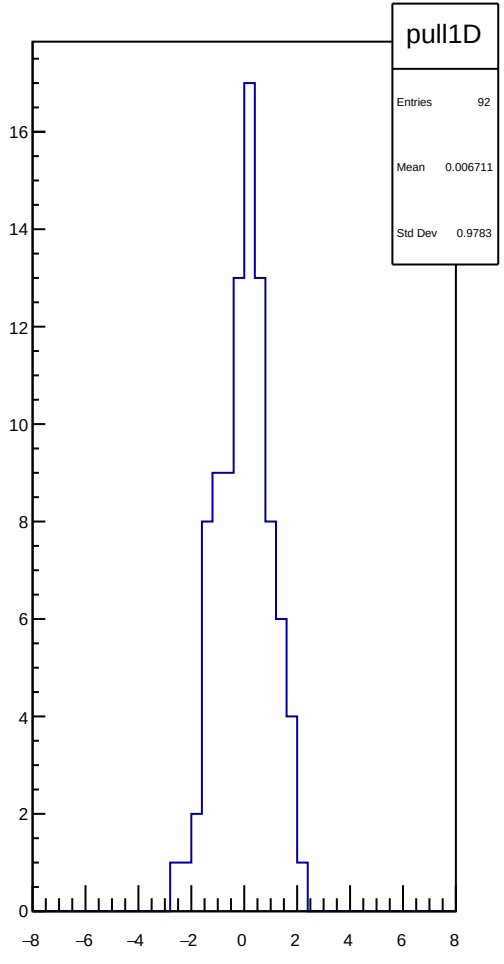

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.152e+04 / 91
p0 63.58 ± 0.04777
90
85
80
75
70
65
60
55

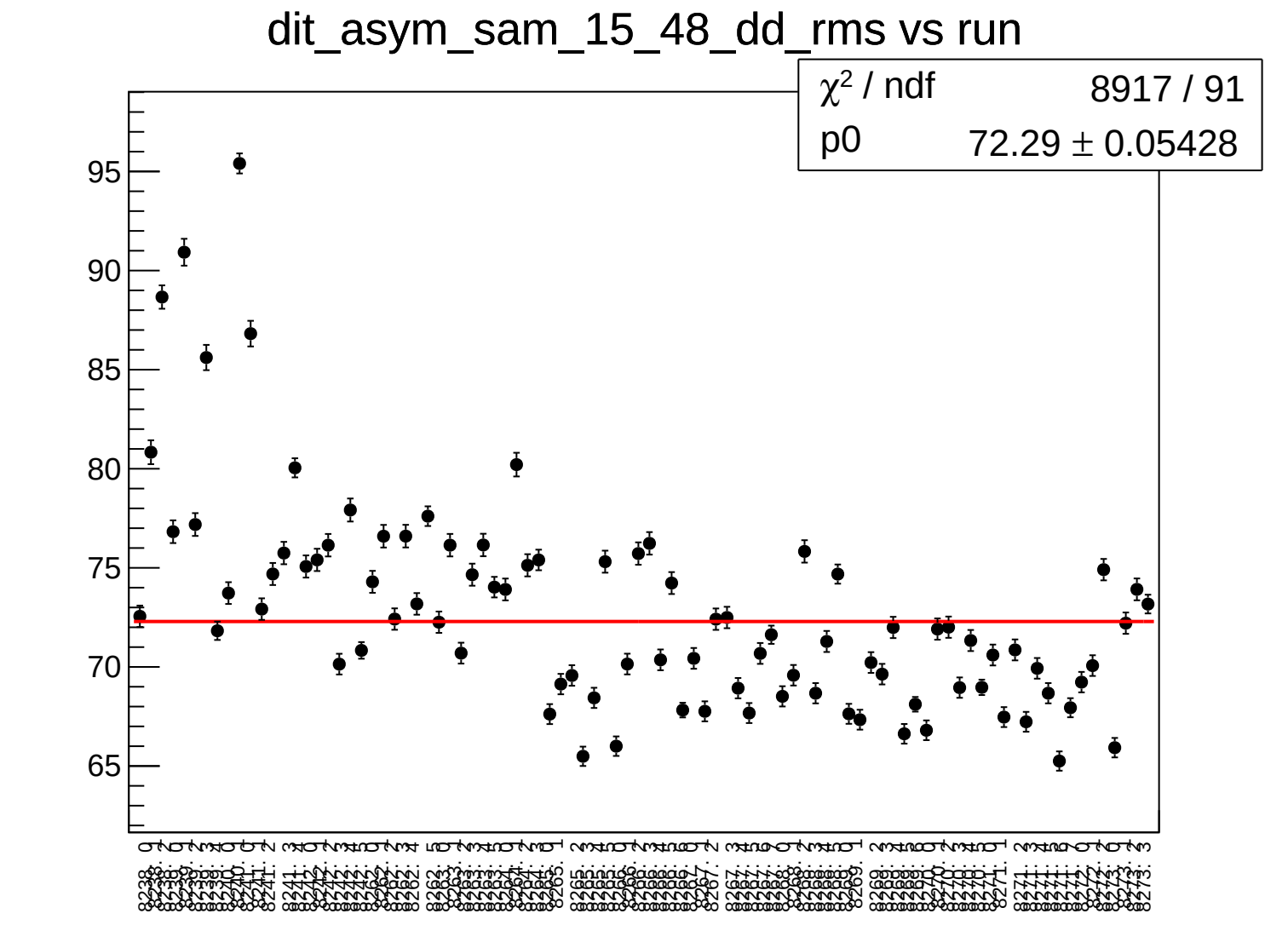

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.68 / 91
p0 4221 ± 1303
pull
Entries 92
Mean −3262
Std Dev 0

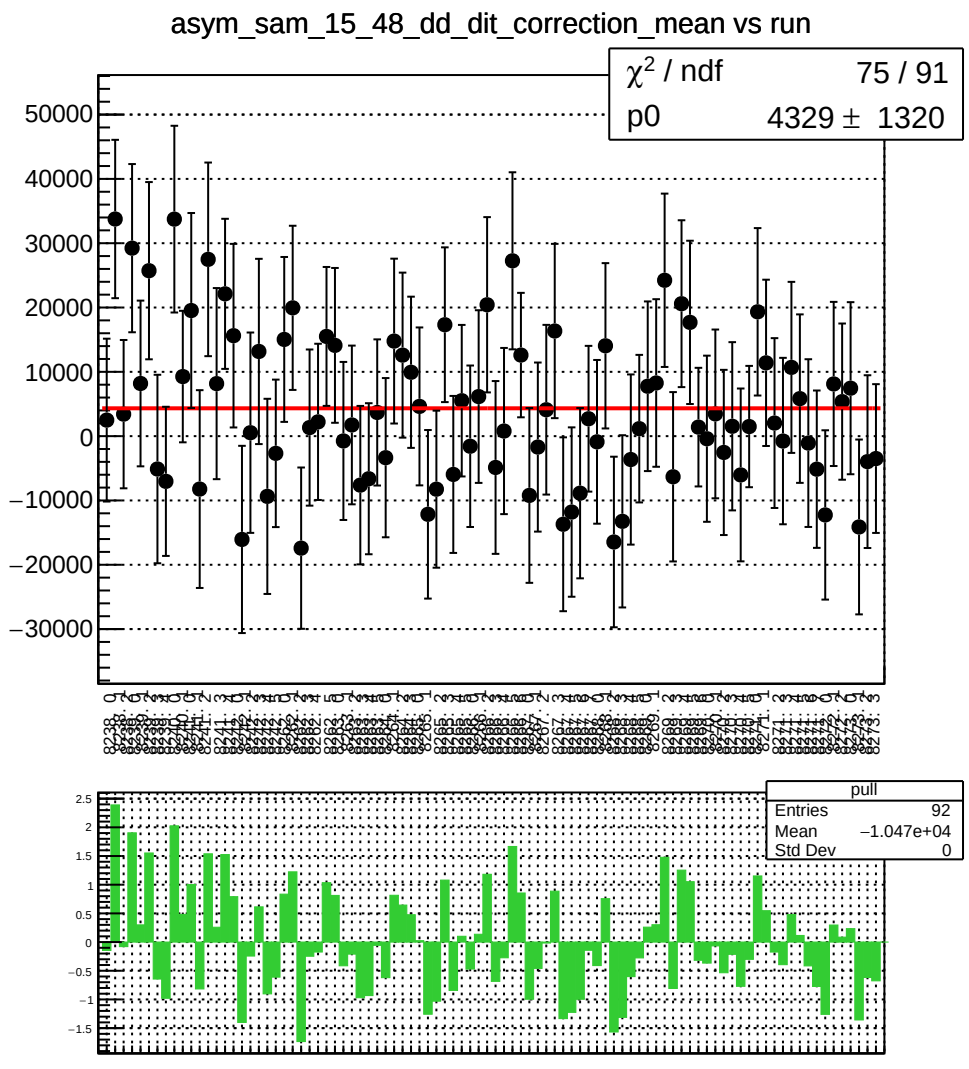

pull1D
Entries 92
Mean 0.001825
Std Dev 0.901

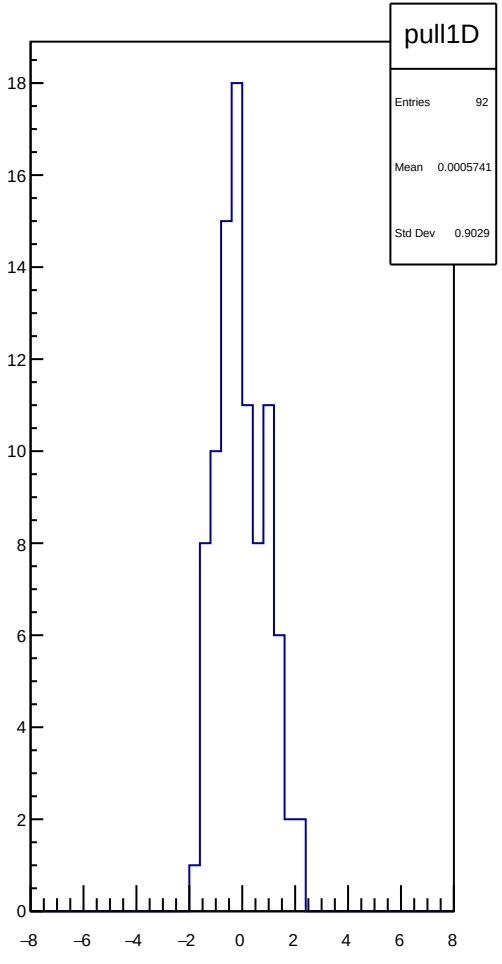

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 7885 / 91
p0 1227 ± 0.9211
1500
1400
1300
1200
1100

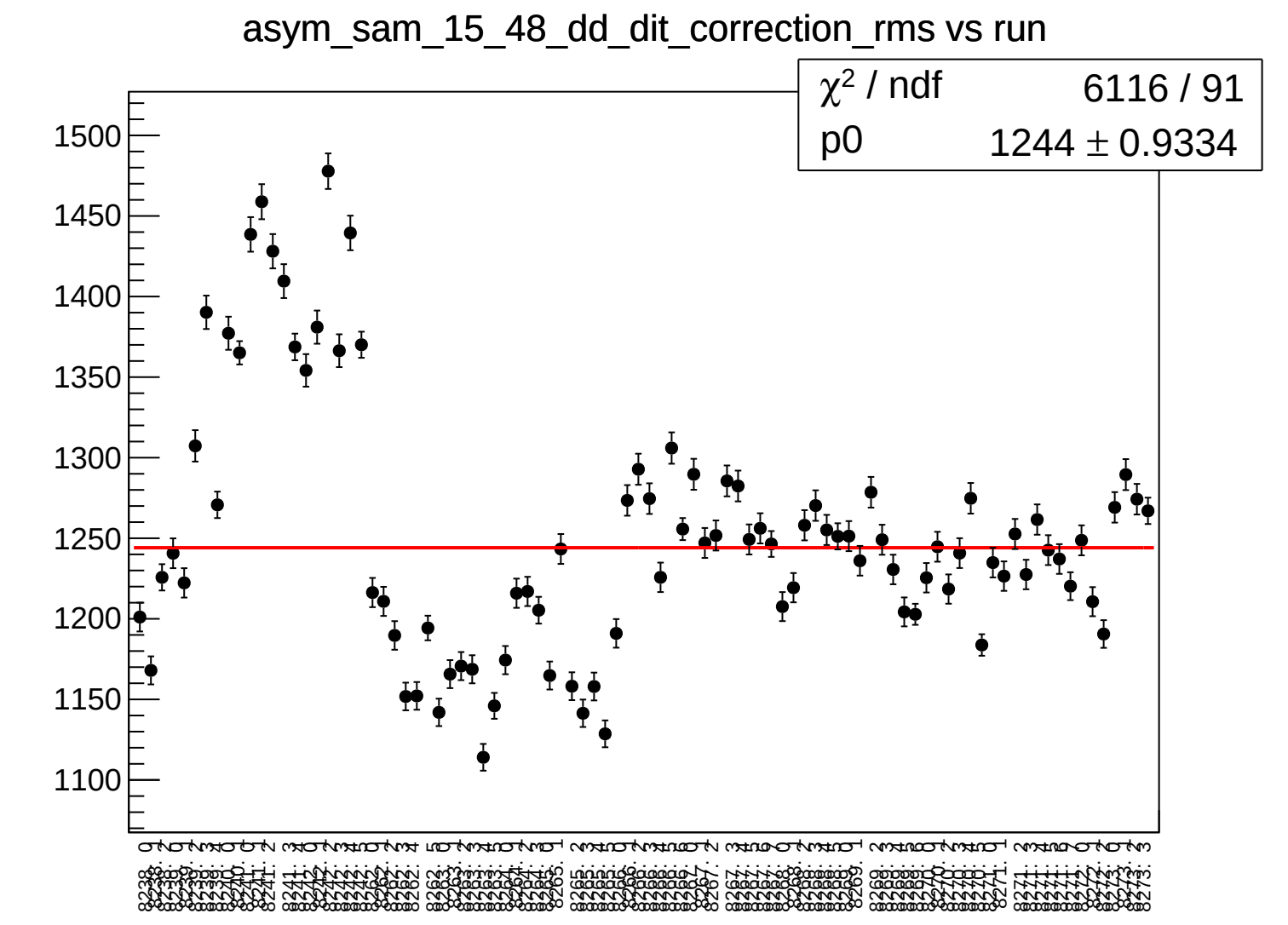

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 88.06 / 91
p0 92.95 ± 76.76
pull
Entries 92
Mean −102.3
Std Dev 0

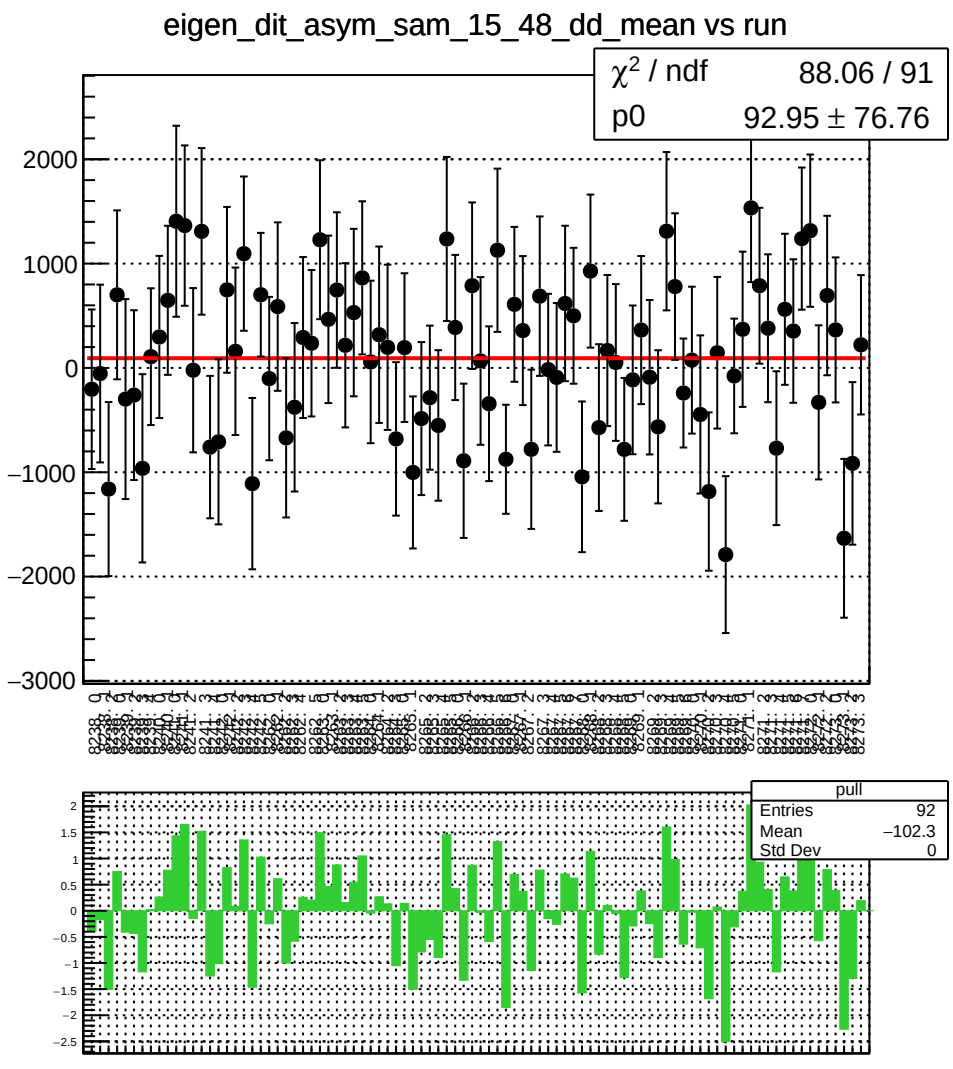

pull1D
Entries 92
Mean 0.006711
Std Dev 0.9783

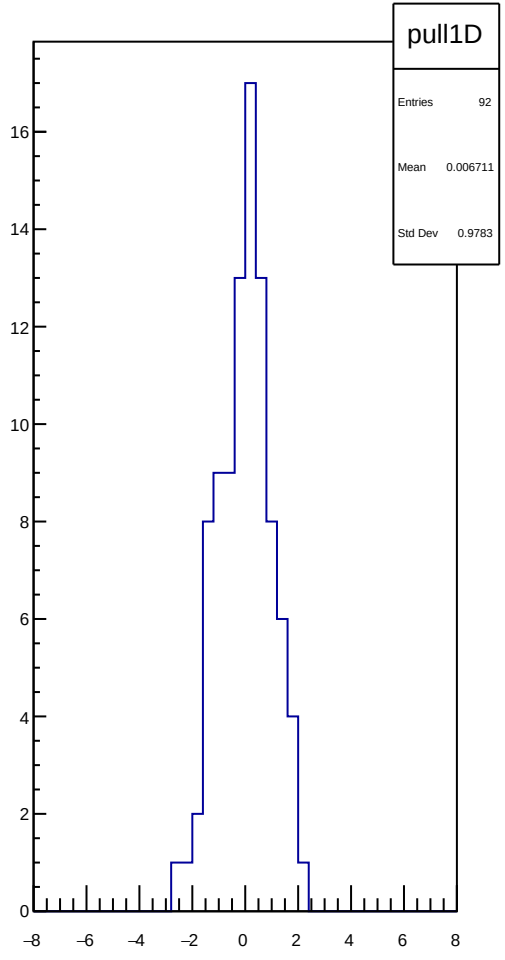

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 8917 / 91
p0 72.29 ± 0.05428
95
90
85
80
75
70
65

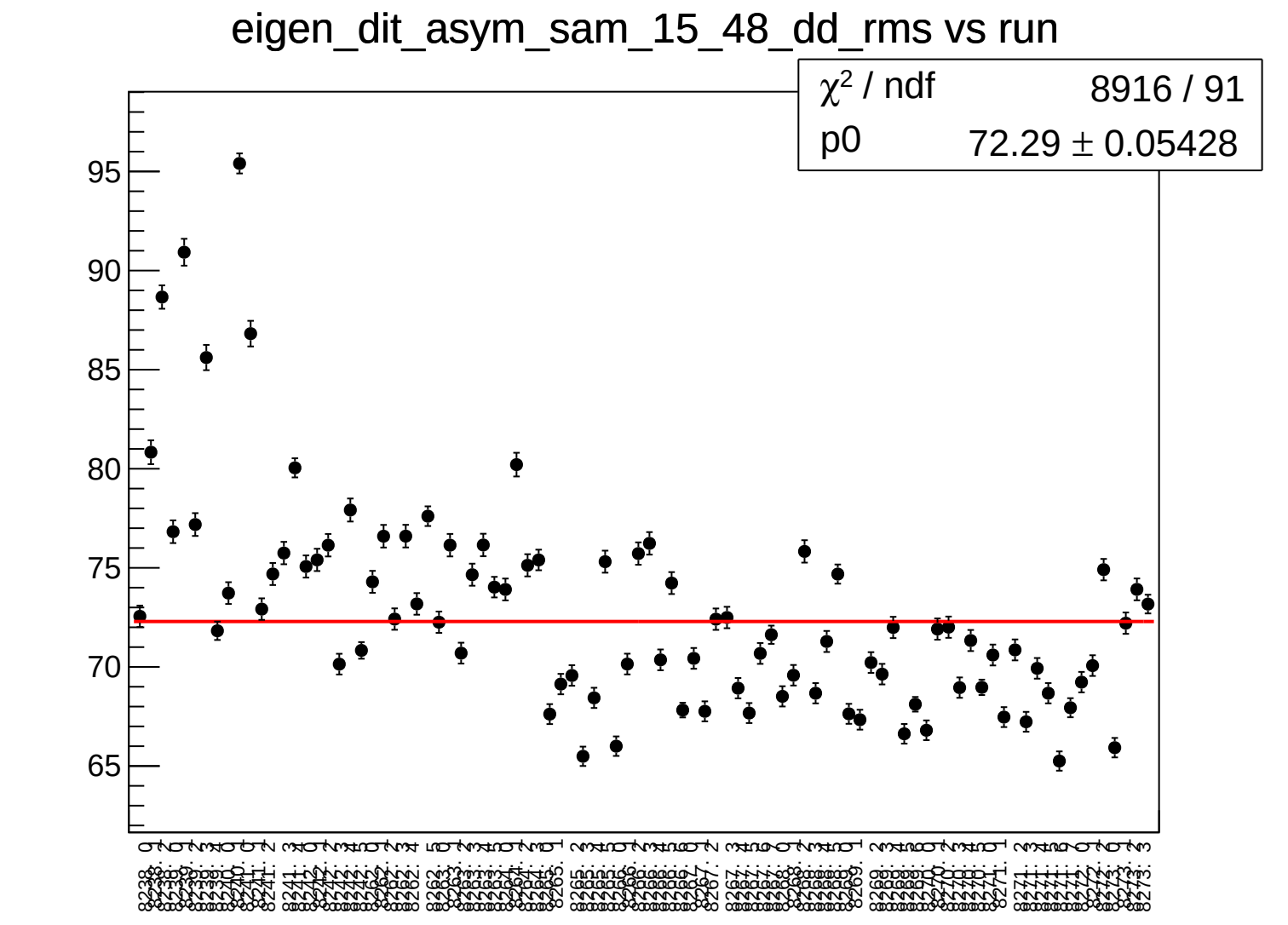

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 75 / 91
p0 4329 ± 1320
pull
Entries 92
Mean −1.047e+04
Std Dev 0

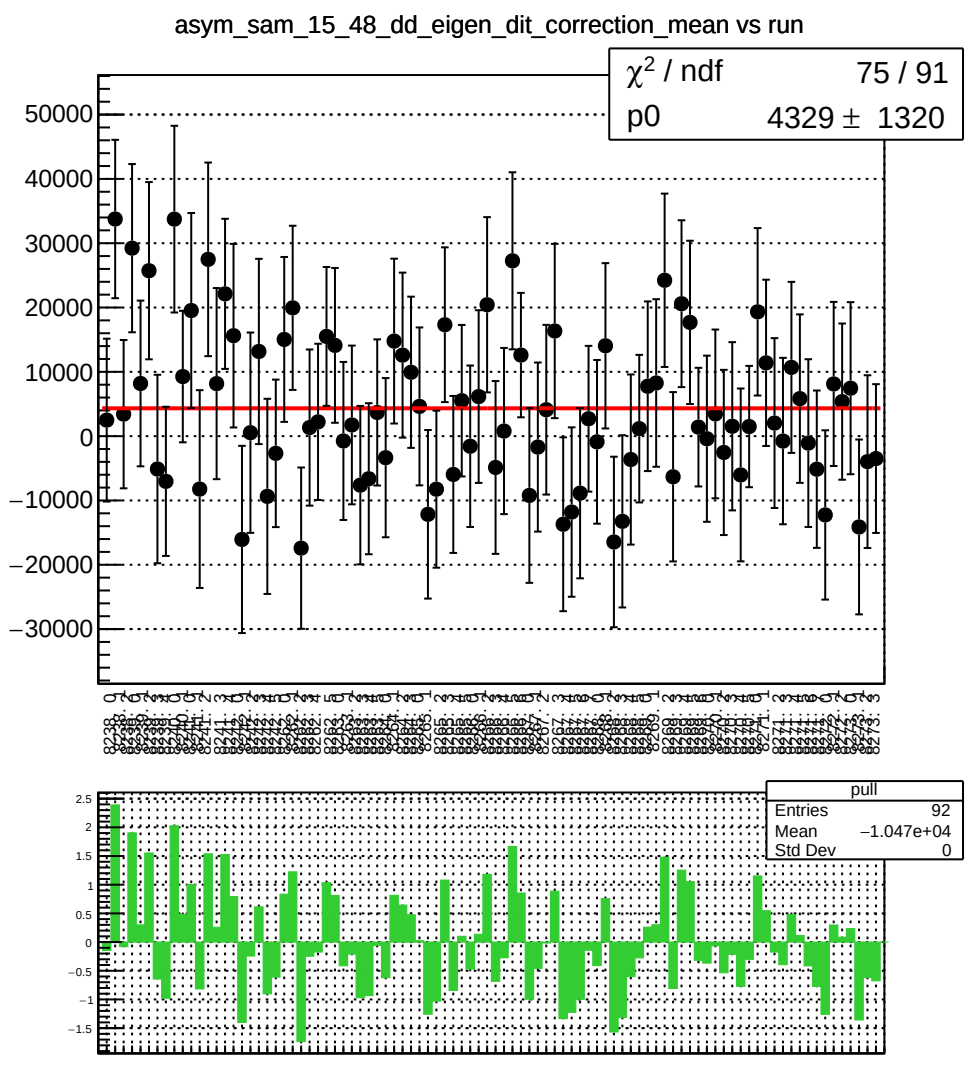

pull1D
Entries 92
Mean 0.0005741
Std Dev 0.9029

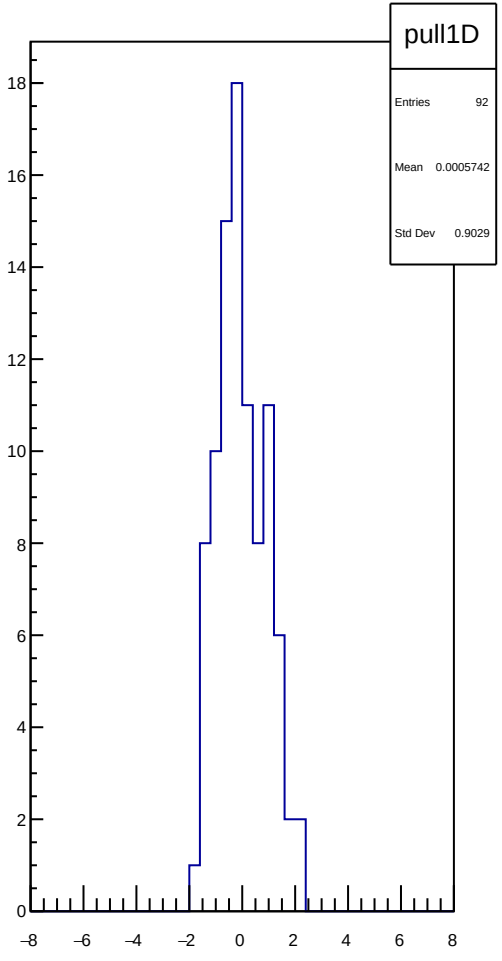

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 6116 / 91
p0 1244 ± 0.9334
1500
1450
1400
1350
1300
1250
1200
1150
1100

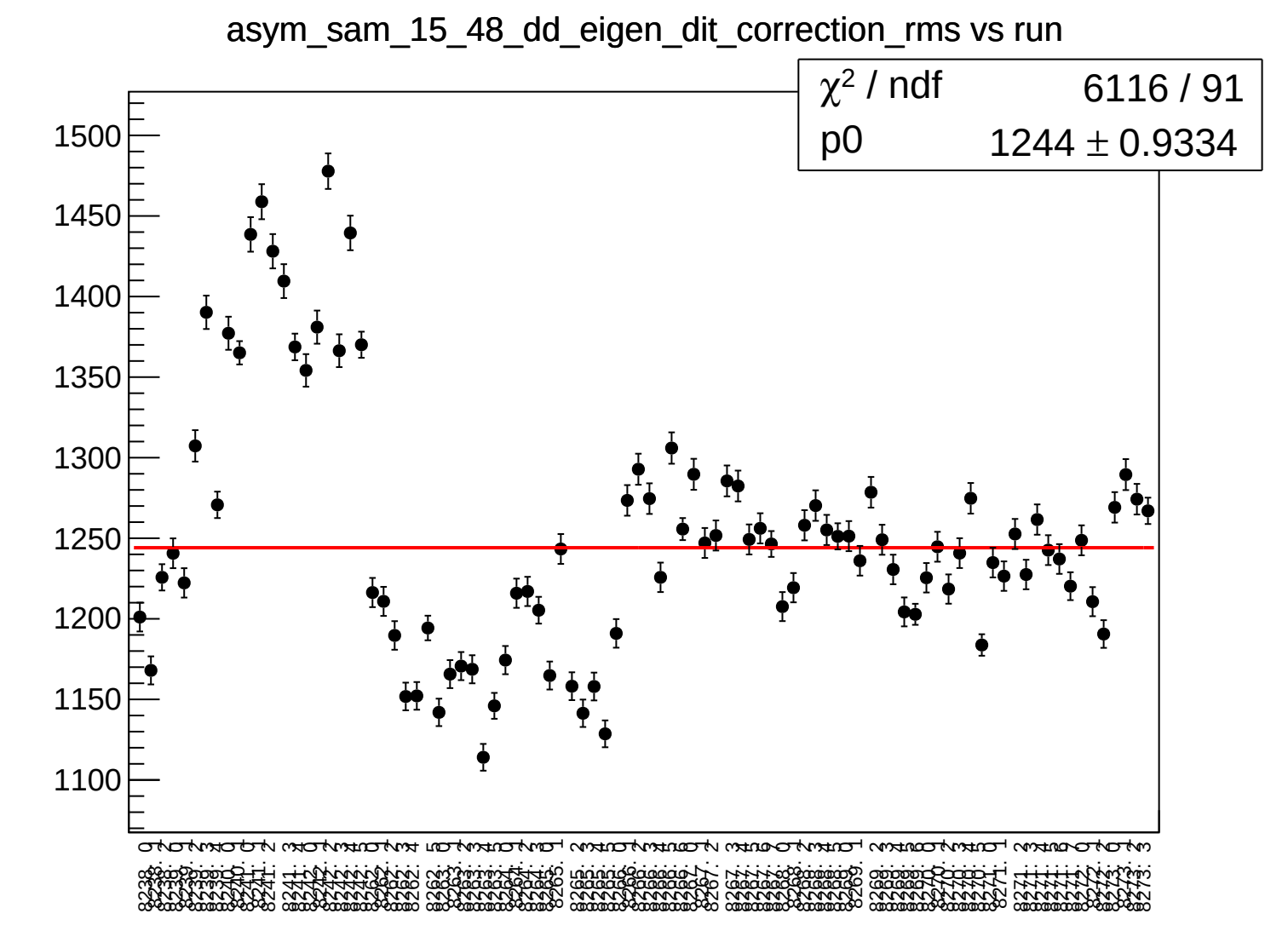

eigen_dit_asym_sam_15_48_dd_mean vs run
$\chi^2$ / ndf 88.06 / 91
p0 92.95 ± 76.76
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −102.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

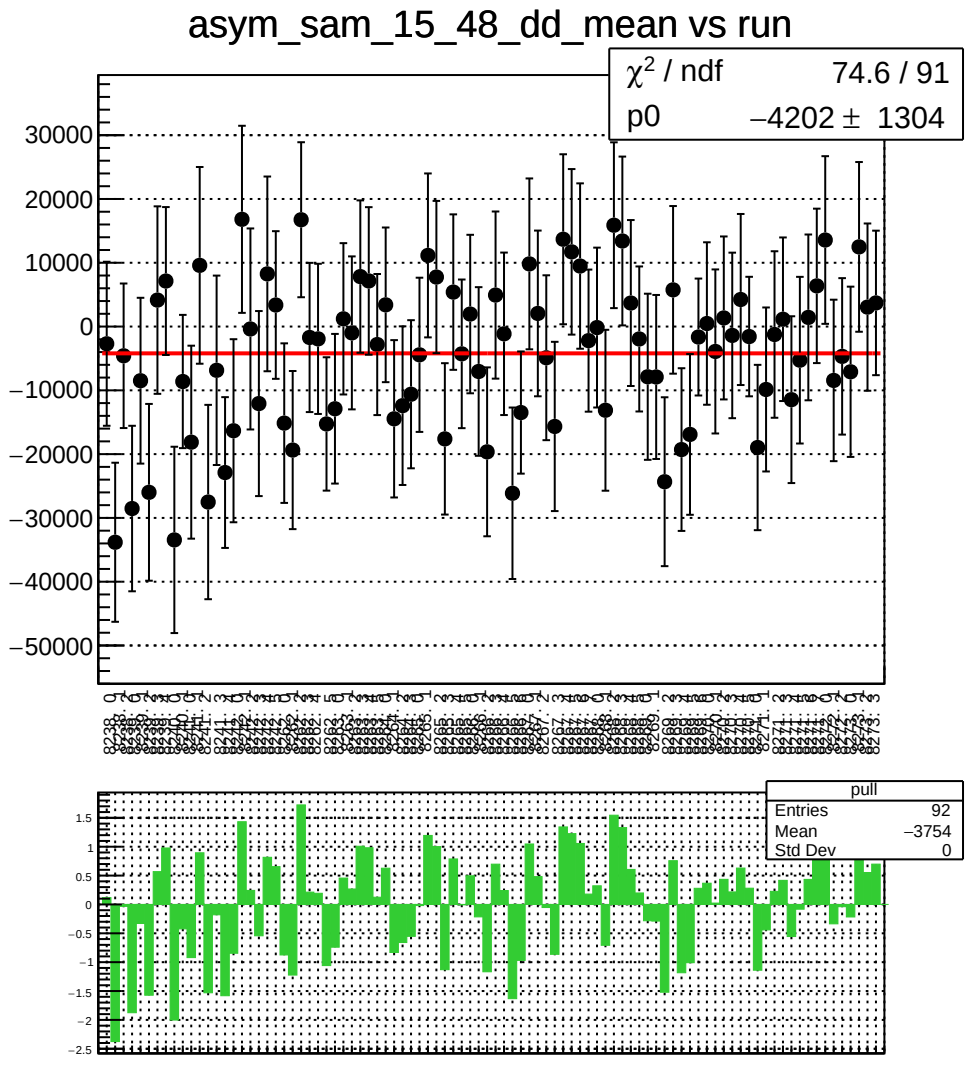

pull1D
Entries 92
Mean 0.006711
Std Dev 0.9783
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

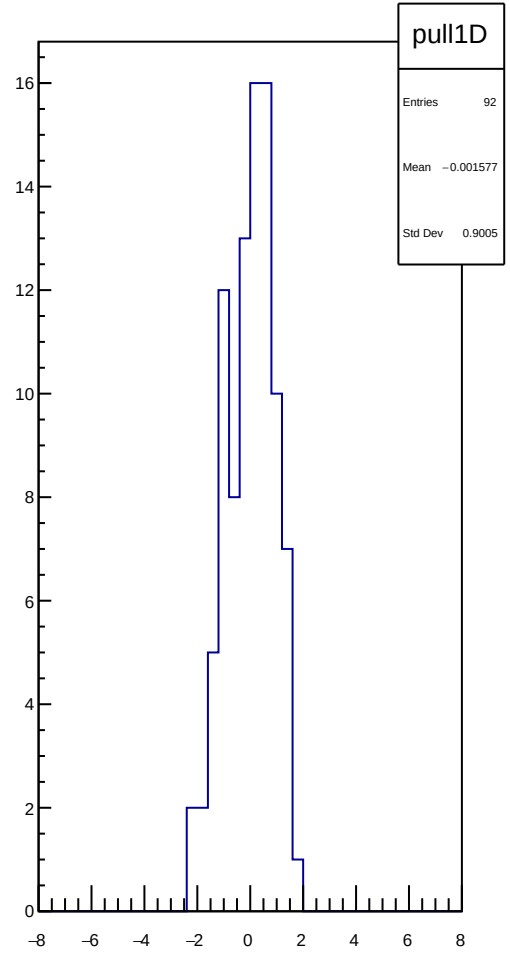

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 8916 / 91
p0 72.29 ± 0.05428
95
90
85
80
75
70
65

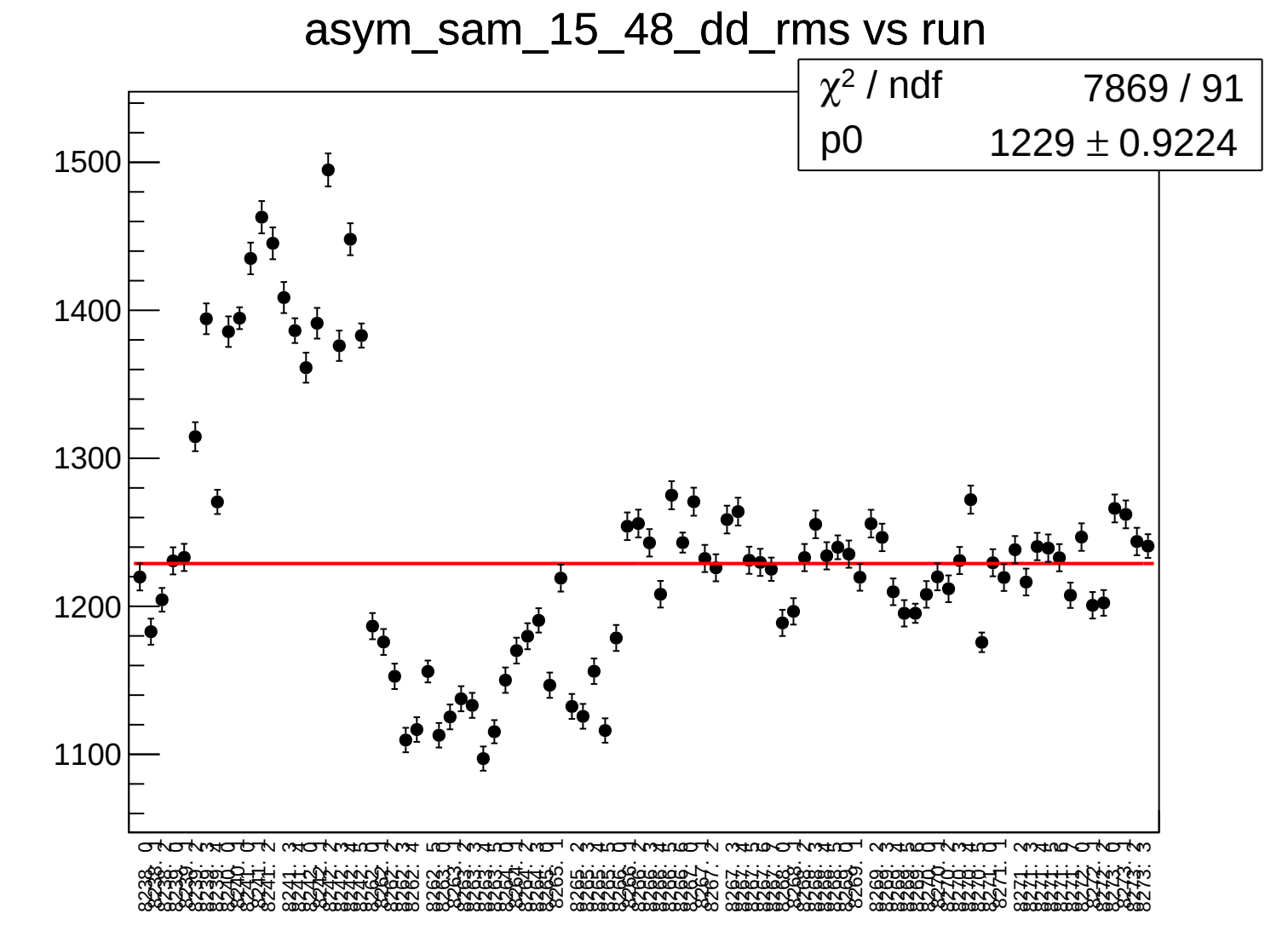

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 75 / 91
p0 4329 ± 1320
pull
Entries 92
Mean −1.047e+04
Std Dev 0

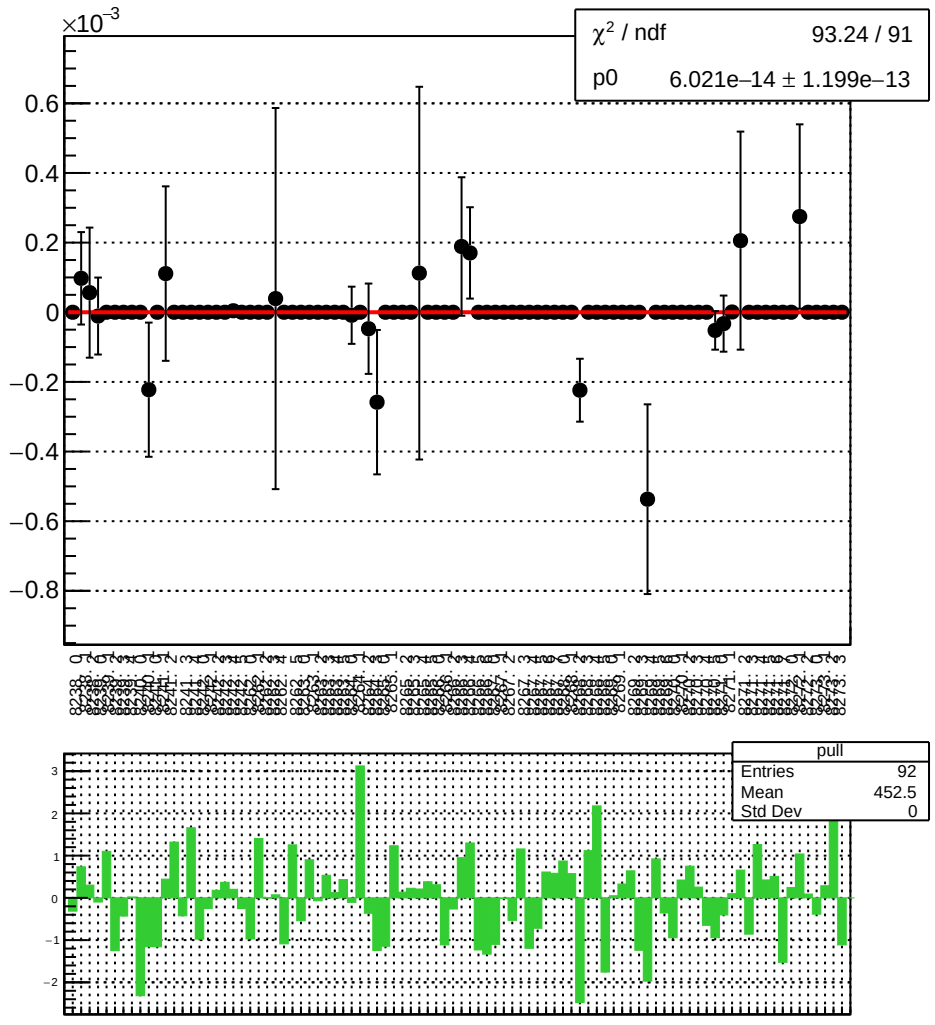

pull1D
Entries 92
Mean 0.0005742
Std Dev 0.9029

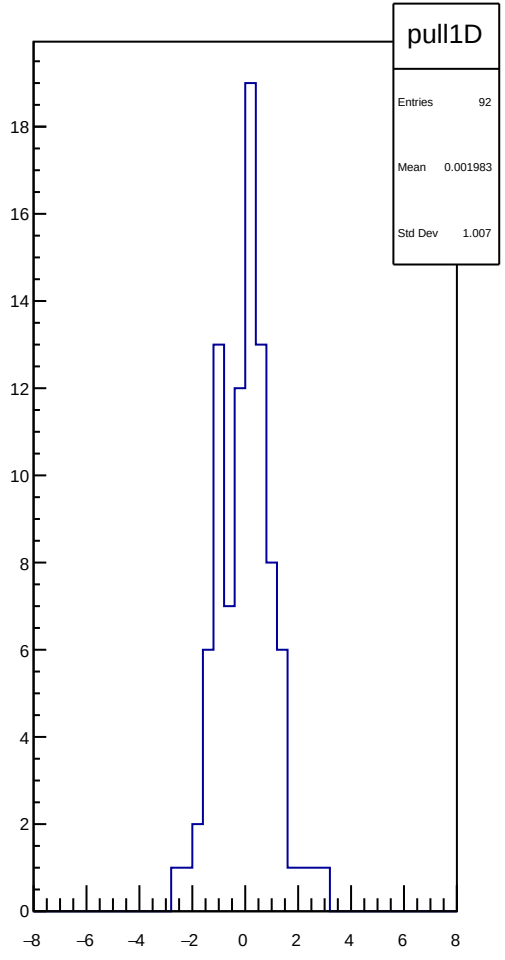

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 6116 / 91
p0 1244 ± 0.9334
1500
1450
1400
1350
1300
1250
1200
1150
1100

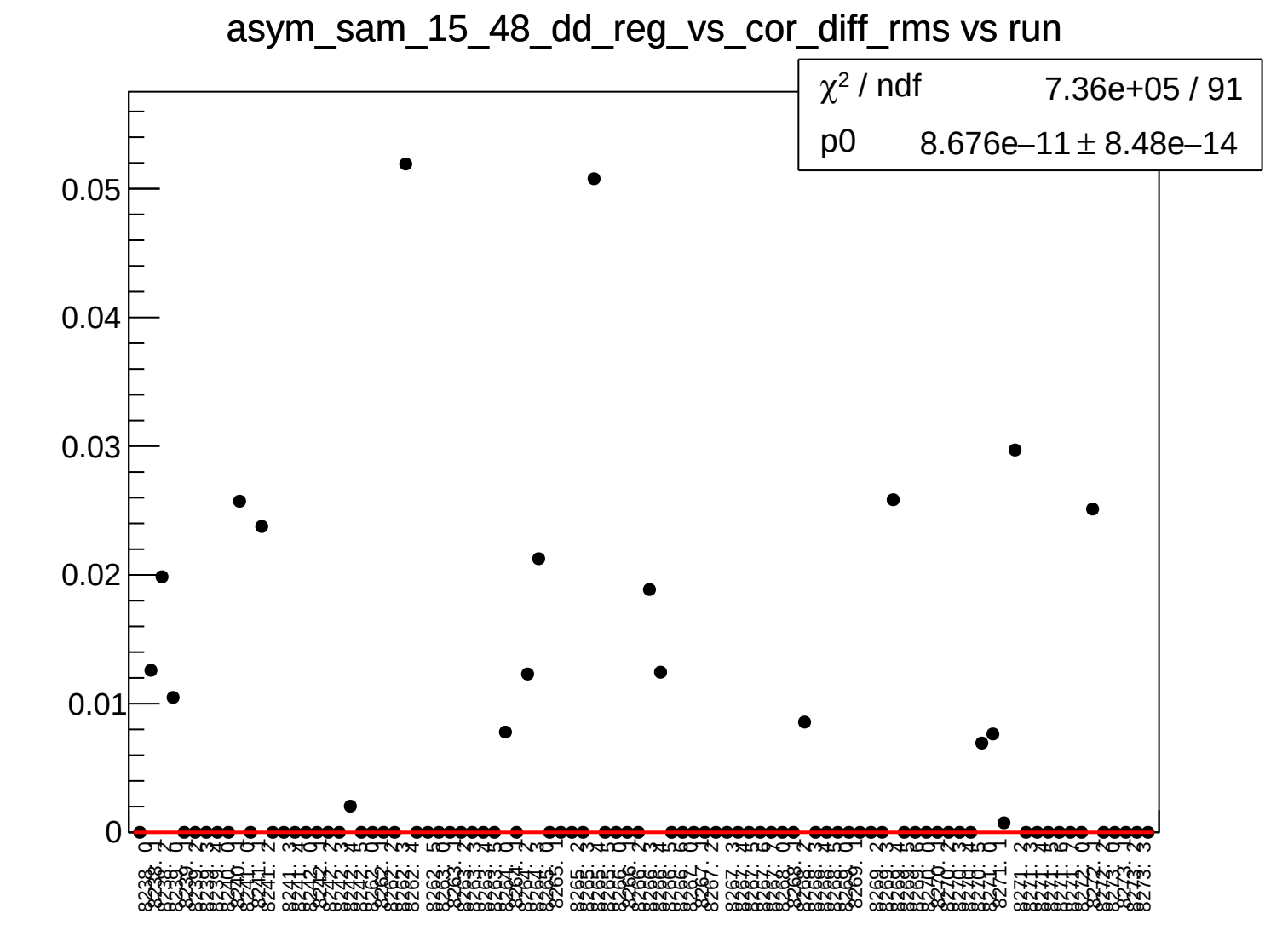

asym_sam_15_48_dd_mean vs run
χ² / ndf 74.6 / 91
p0 −4202 ± 1304
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 92
Mean −3754
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

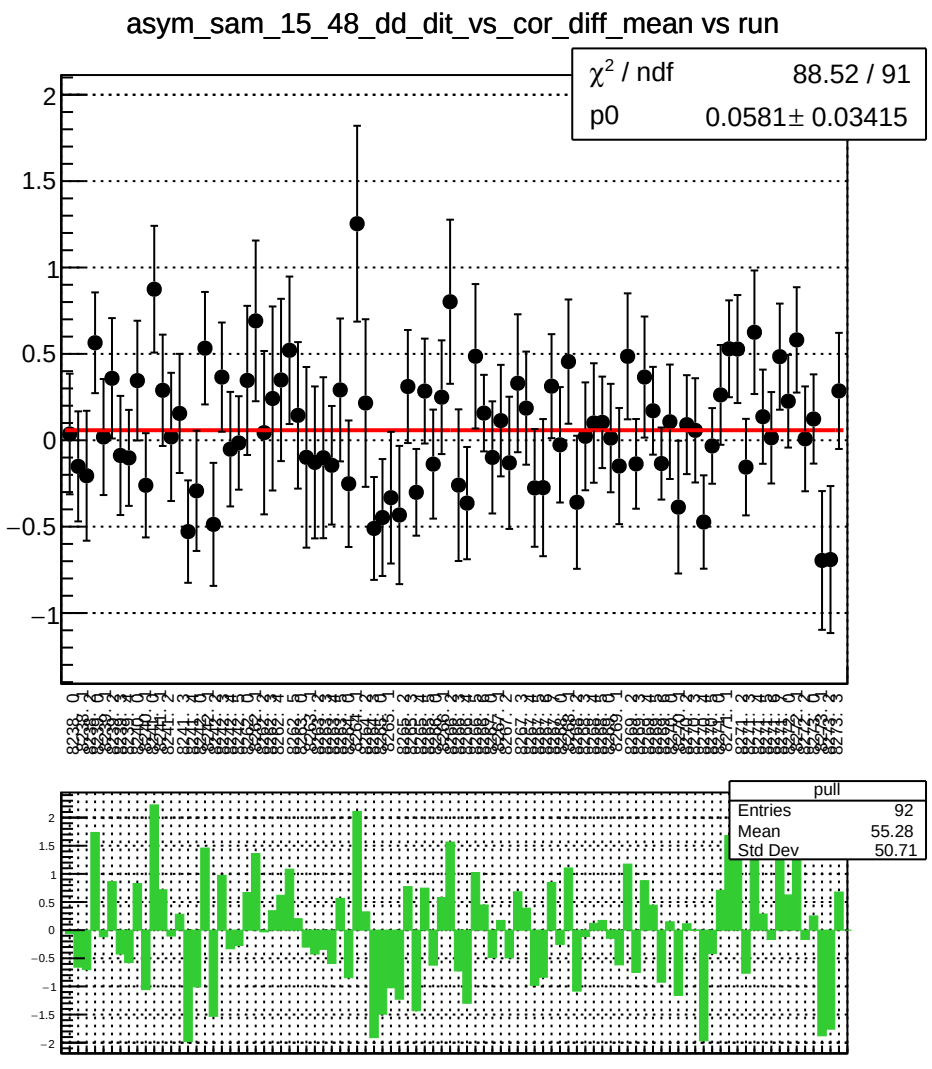

pull1D
Entries 92
Mean −0.001577
Std Dev 0.9005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

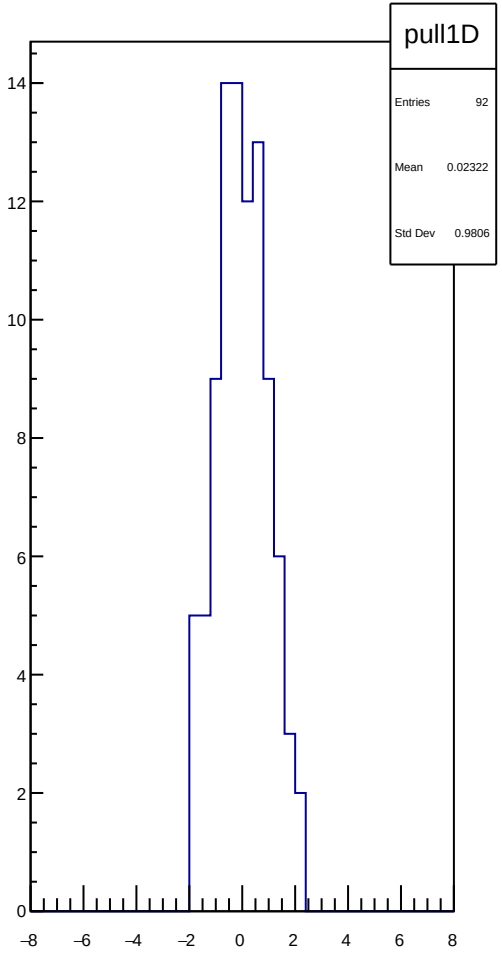

asym_sam_15_48_dd_rms vs run
χ² / ndf 7869 / 91
p0 1229 ± 0.9224
1500
1400
1300
1200
1100

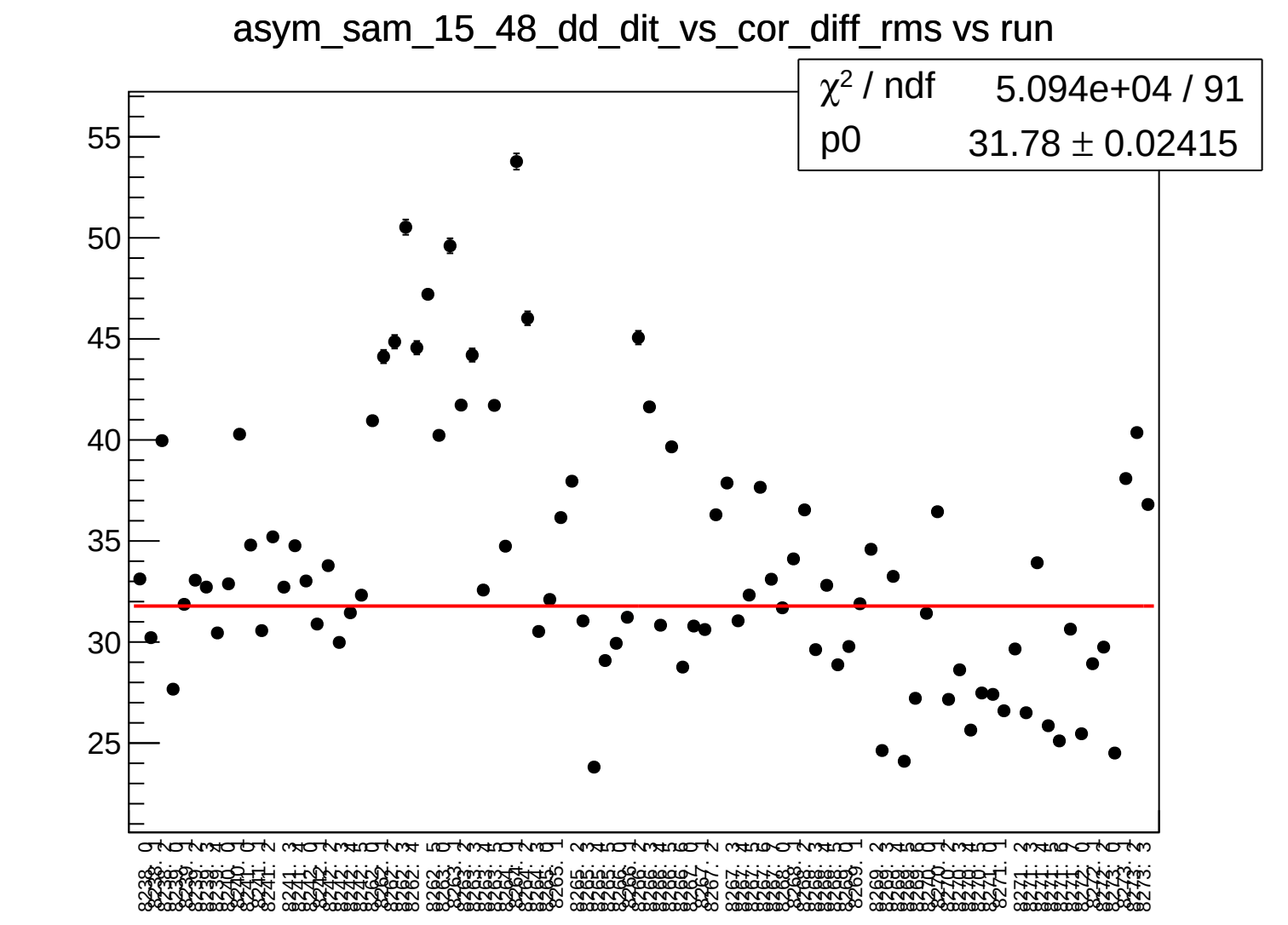

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 93.24 / 91
p0 6.021e−14 ± 1.199e−13
pull
Entries 92
Mean 452.5
Std Dev 0

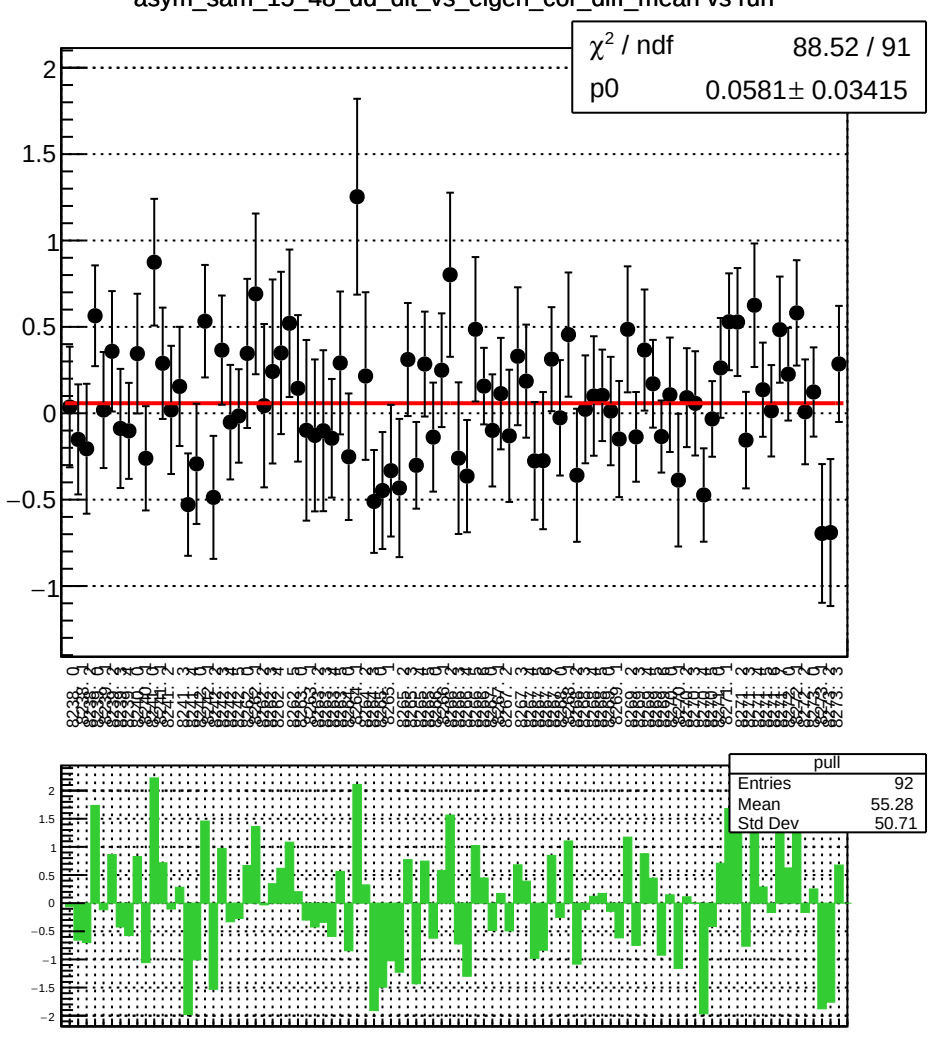

pull1D
Entries 92
Mean 0.001983
Std Dev 1.007

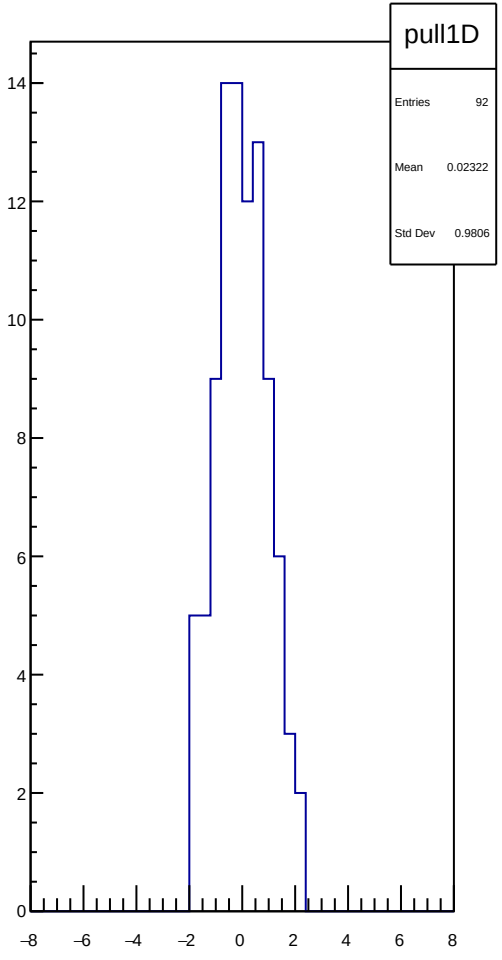

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.36e+05 / 91
p0 8.676e−11 ± 8.48e−14
0.05
0.04
0.03
0.02
0.01
0

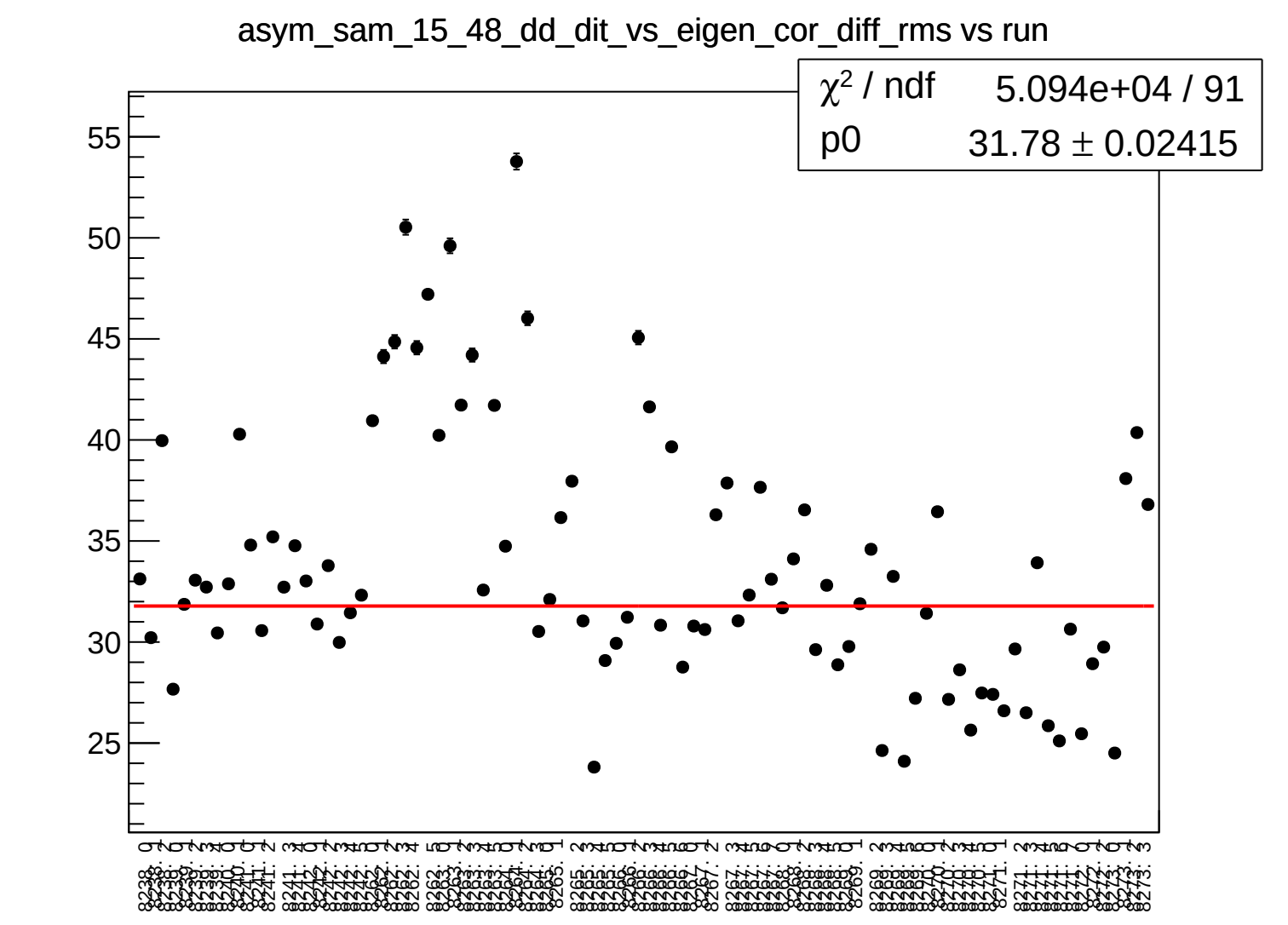

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.52 / 91
p0 0.0581± 0.03415
pull
Entries 92
Mean 55.28
Std Dev 50.71

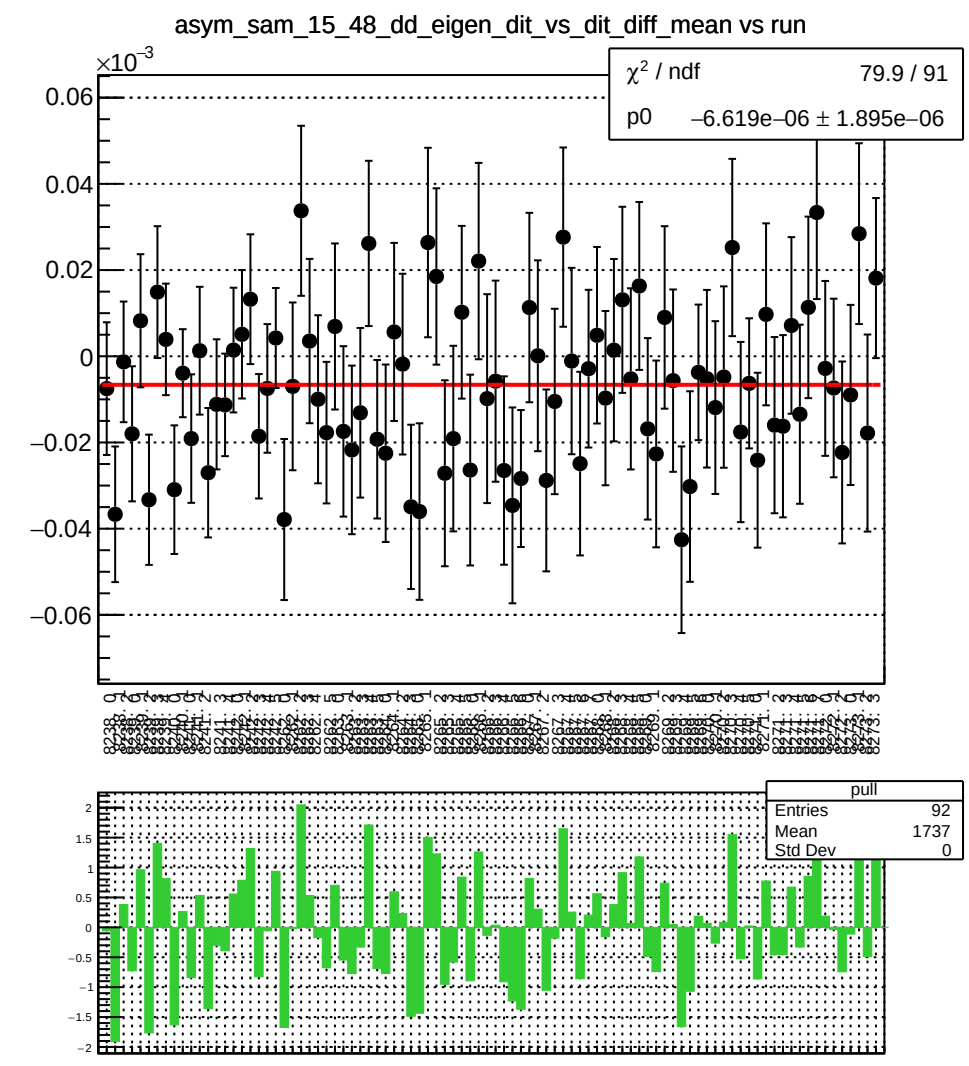

pull1D
Entries 92
Mean 0.02322
Std Dev 0.9806

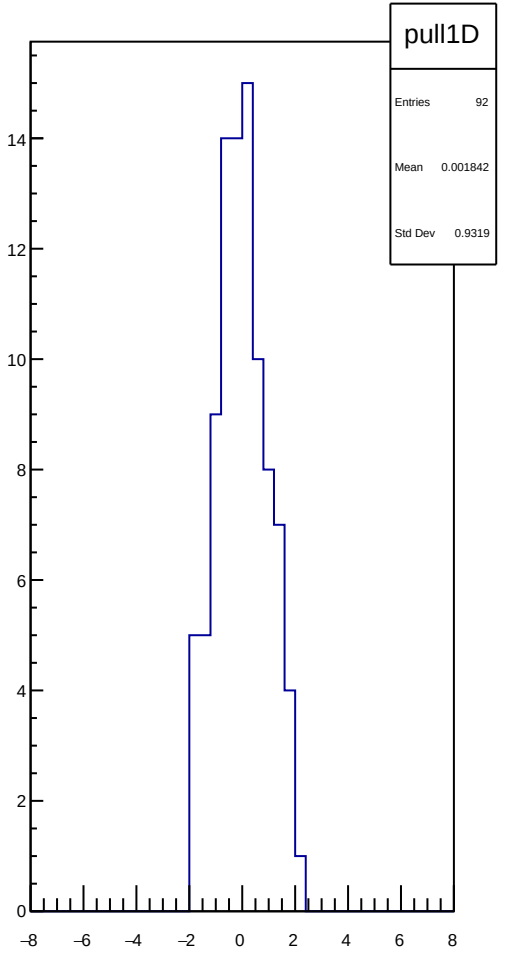

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.094e+04 / 91
p0 31.78 ± 0.02415
55
50
45
40
35
30
25

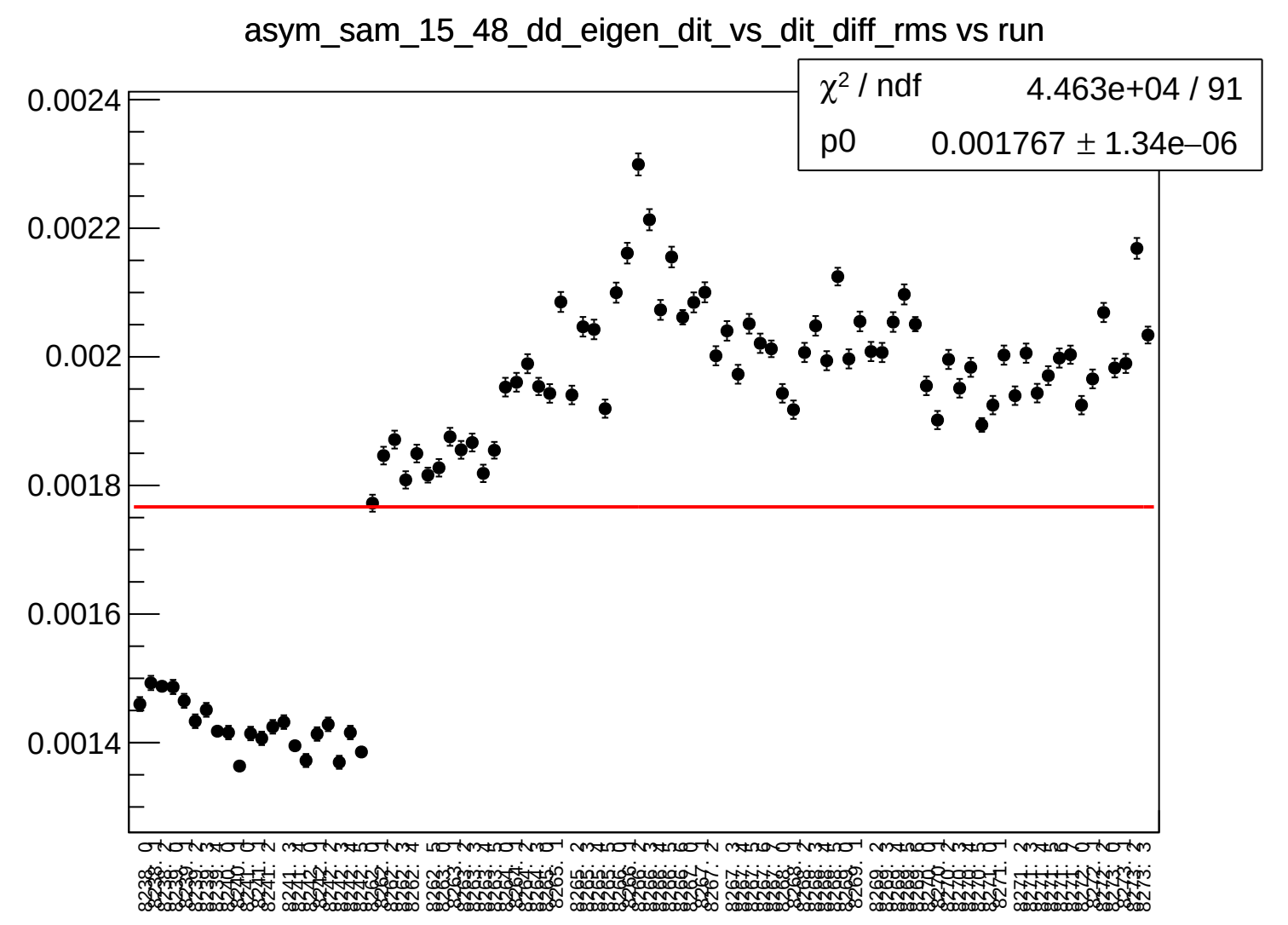

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.52 / 91
p0 0.0581± 0.03415
pull
Entries 92
Mean 55.28
Std Dev 50.71

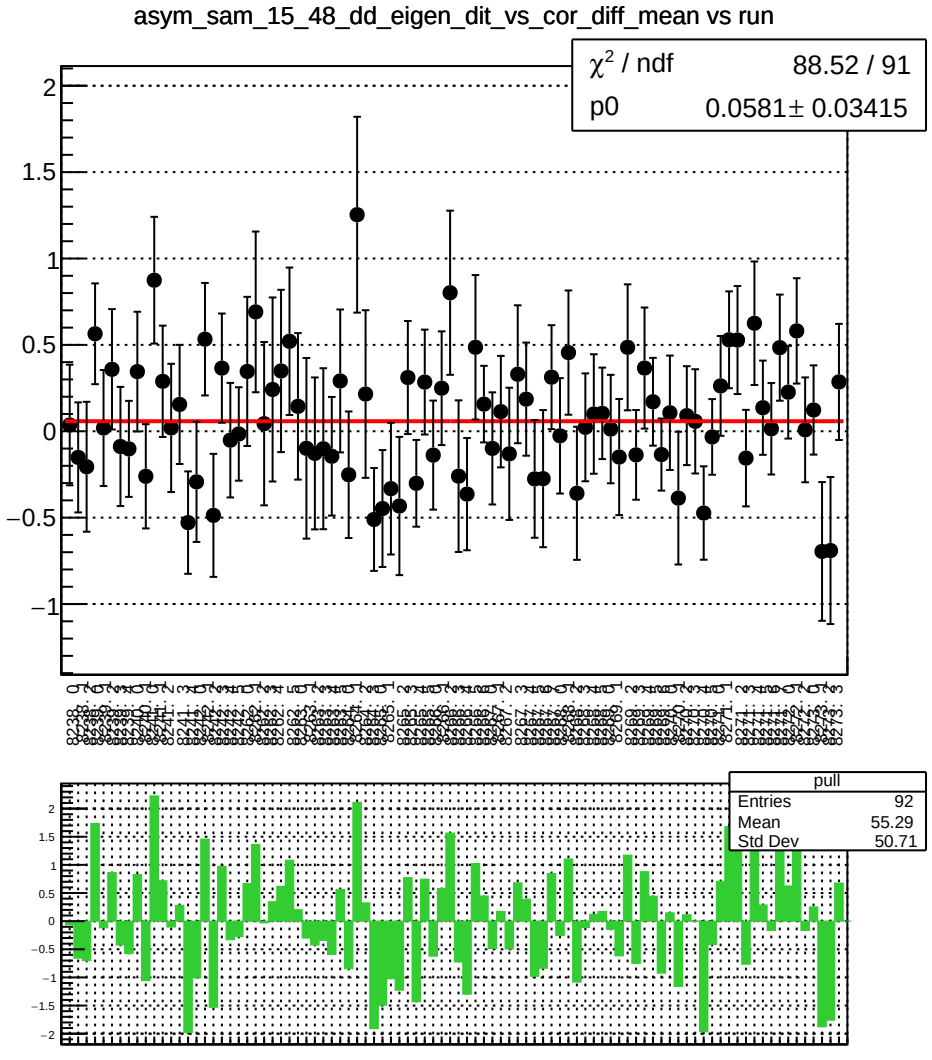

pull1D
Entries 92
Mean 0.02322
Std Dev 0.9806

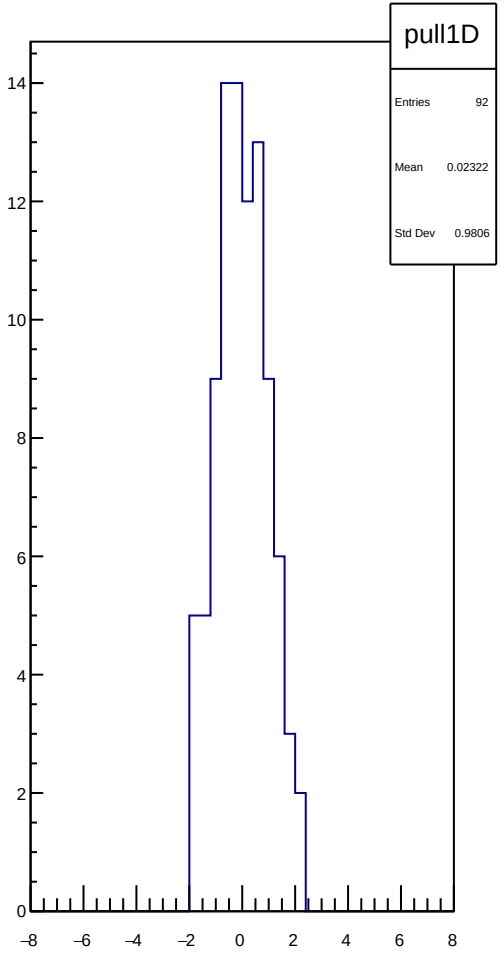

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.094e+04 / 91
p0 31.78 ± 0.02415
55
50
45
40
35
30
25

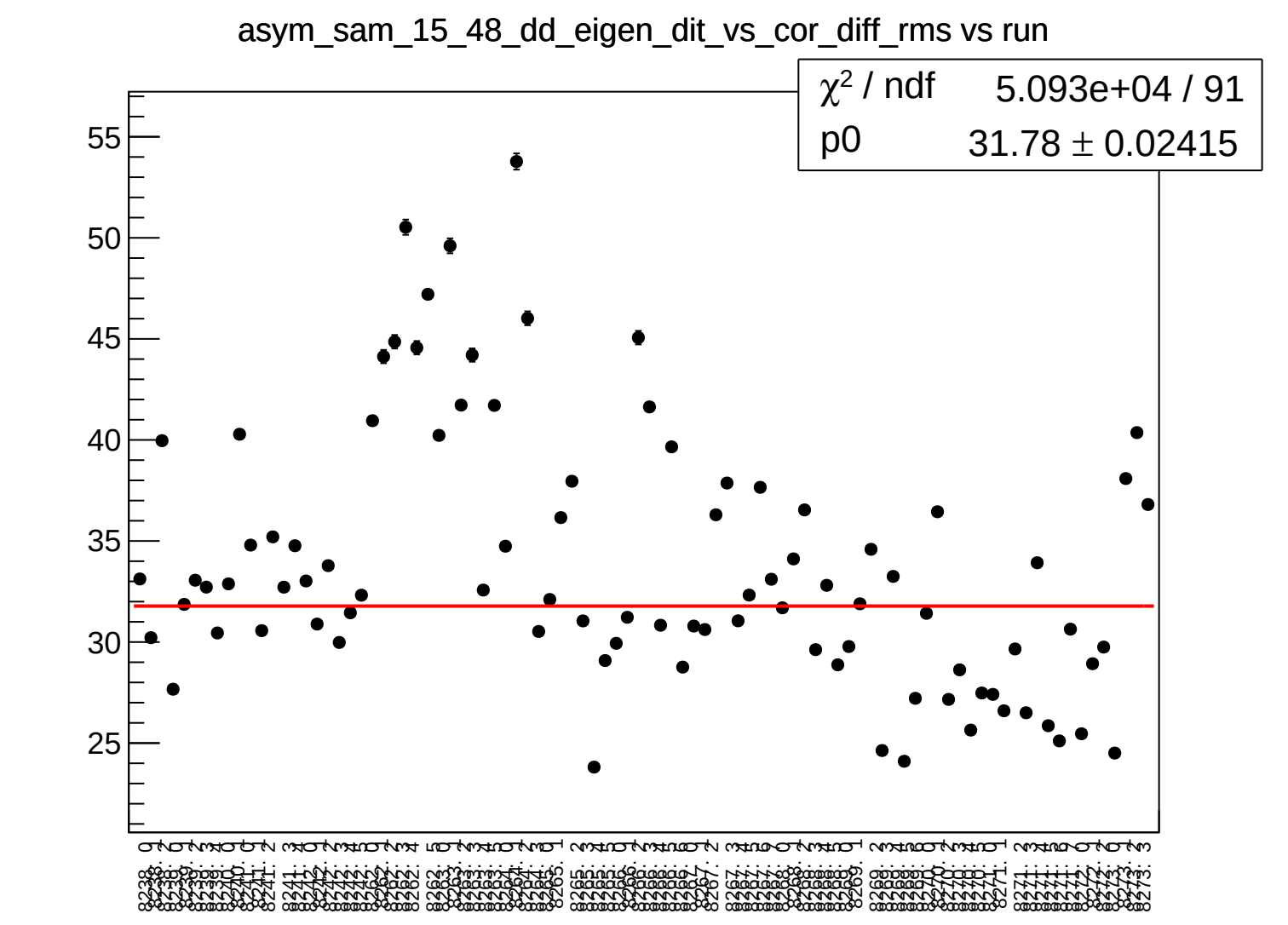

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 79.9 / 91
p0 −6.619e−06 ± 1.895e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 92
Mean 1737
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 92
Mean 0.001842
Std Dev 0.9319
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

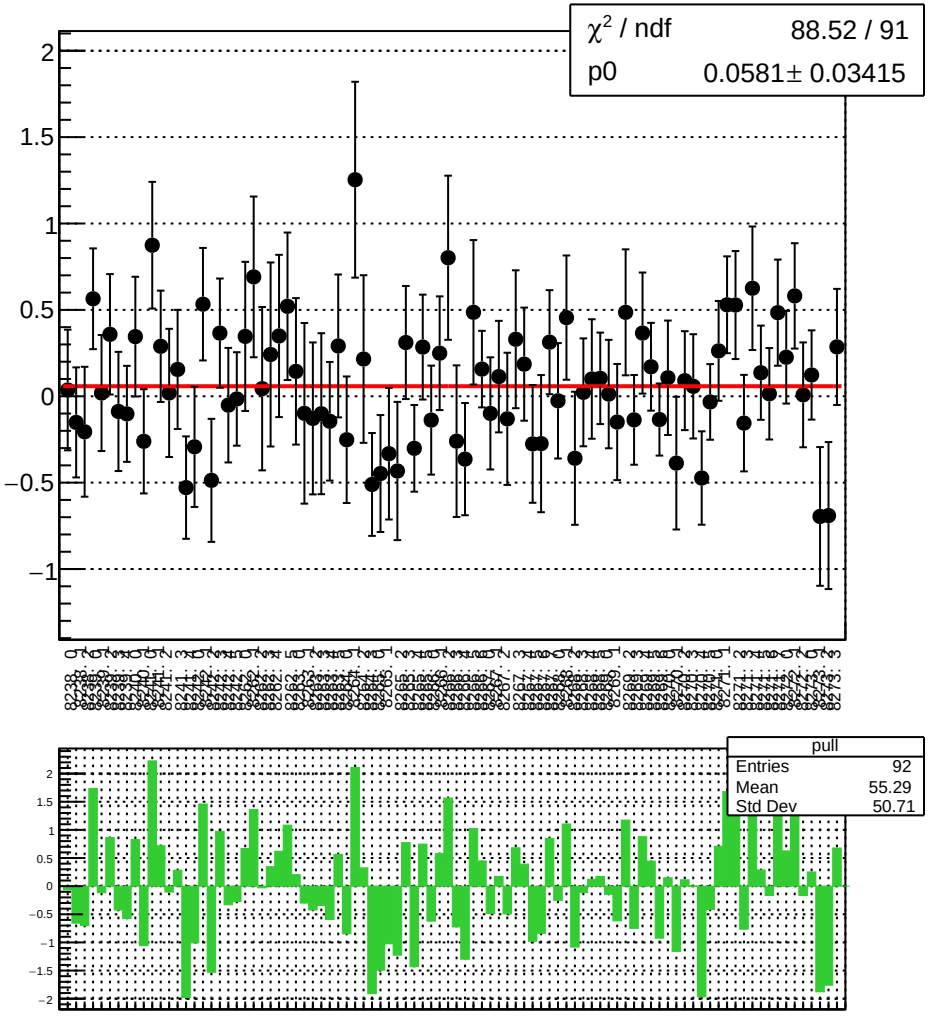

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.463e+04 / 91
p0 0.001767 ± 1.34e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

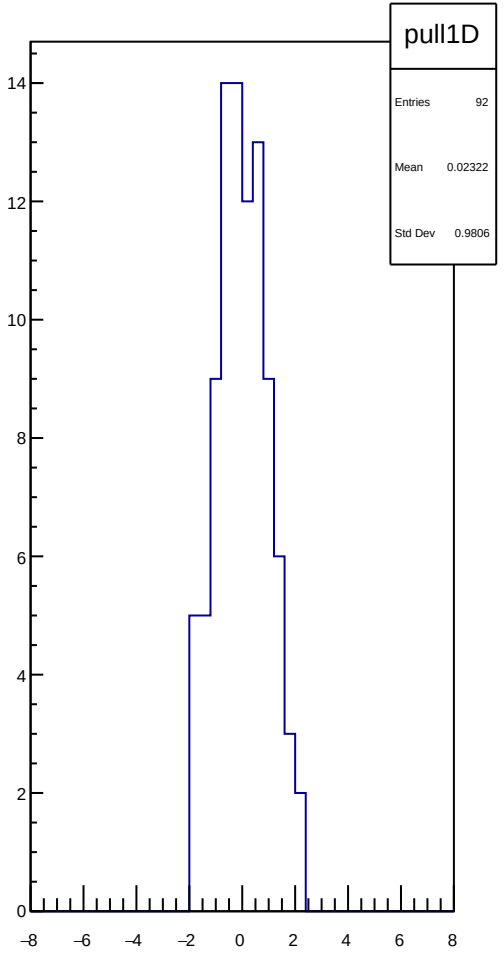

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.52 / 91
p0 0.0581± 0.03415
pull
Entries 92
Mean 55.29
Std Dev 50.71

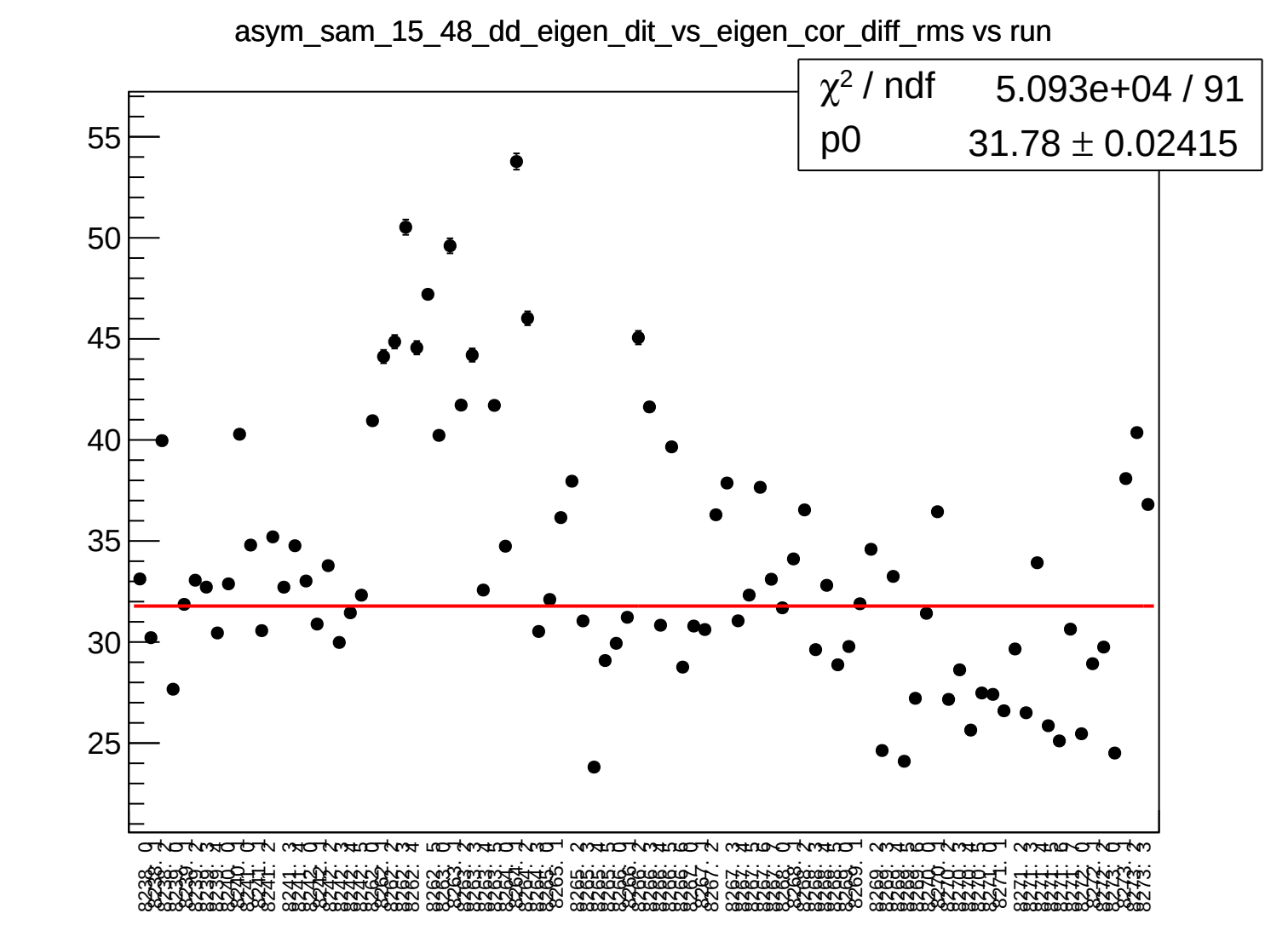

pull1D
Entries 92
Mean 0.02322
Std Dev 0.9806


asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.093e+04 / 91
p0 31.78 ± 0.02415
55
50
45
40
35
30
25

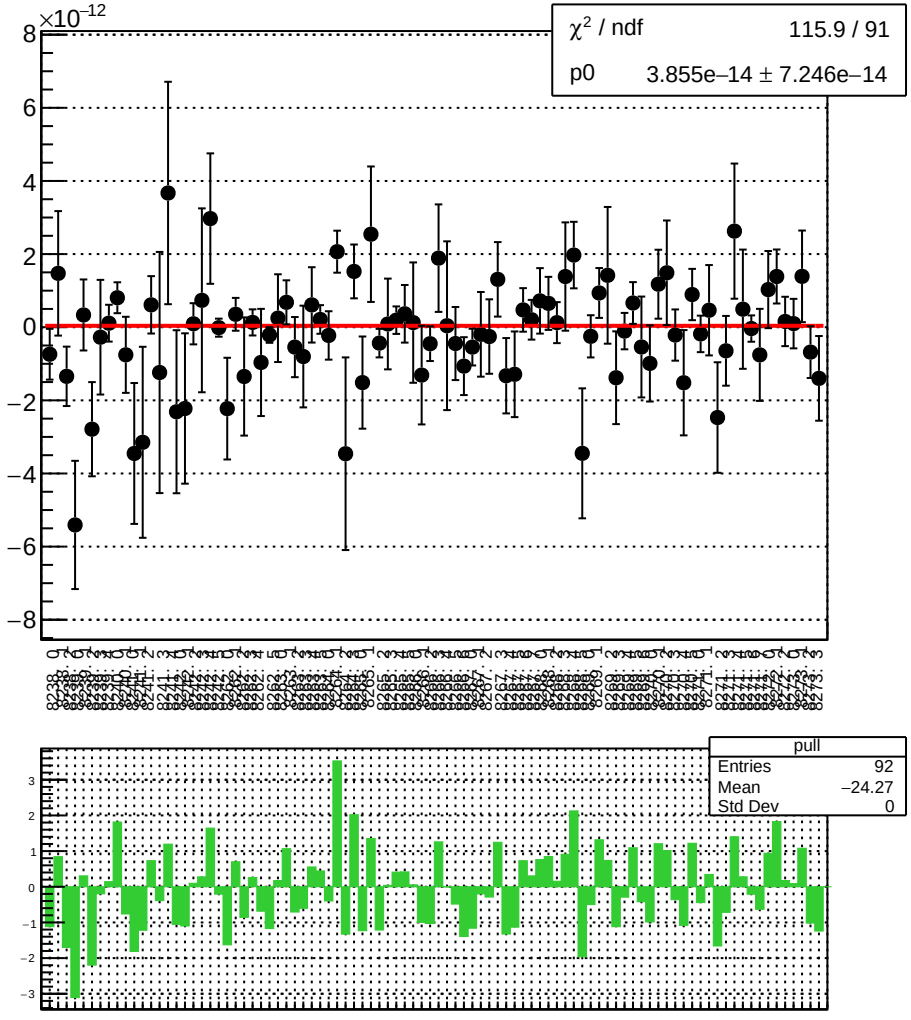
asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

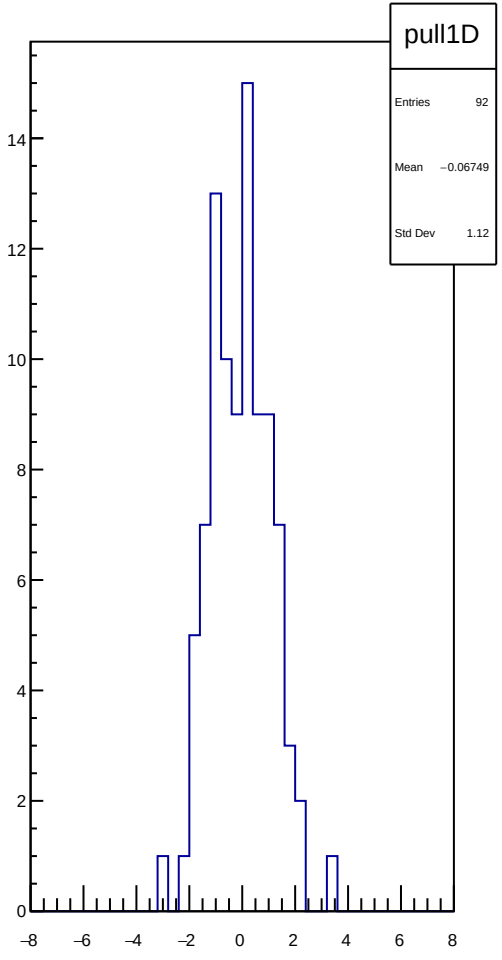


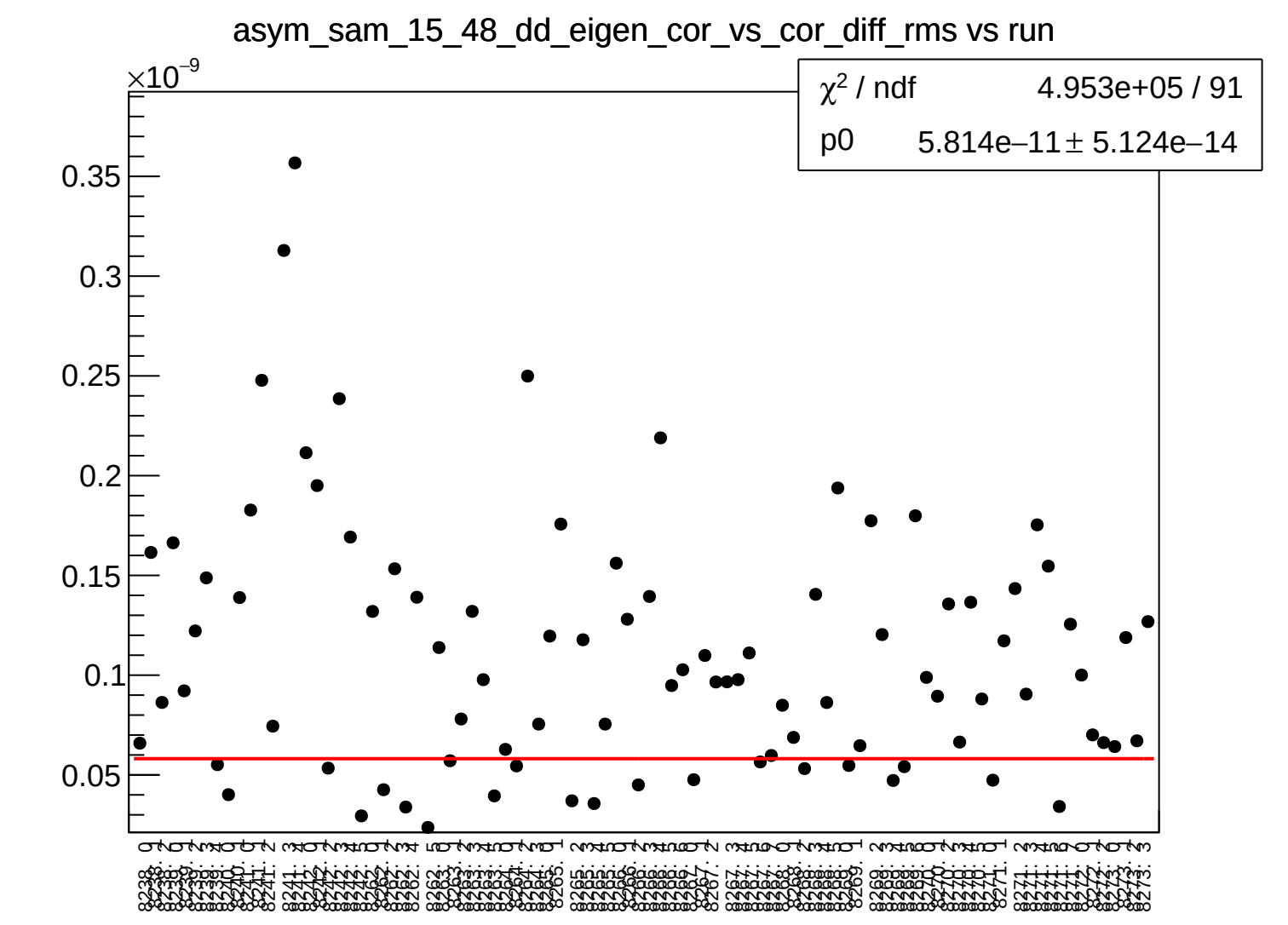



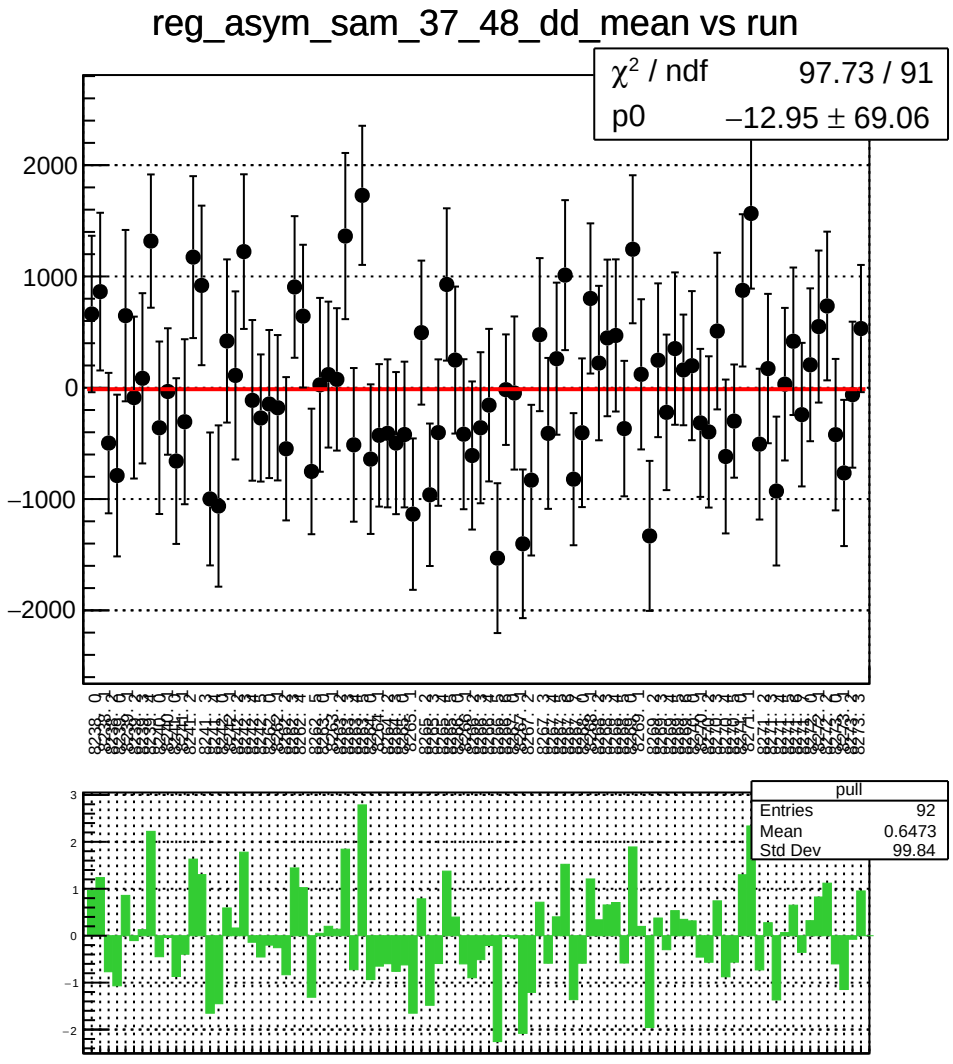

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.093e+04 / 91
p0 31.78 ± 0.02415
55
50
45
40
35
30
25

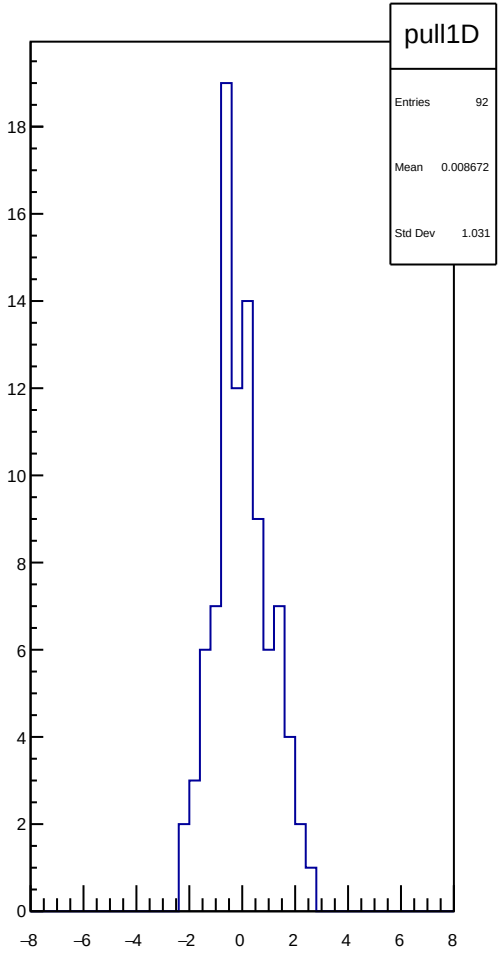
asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run

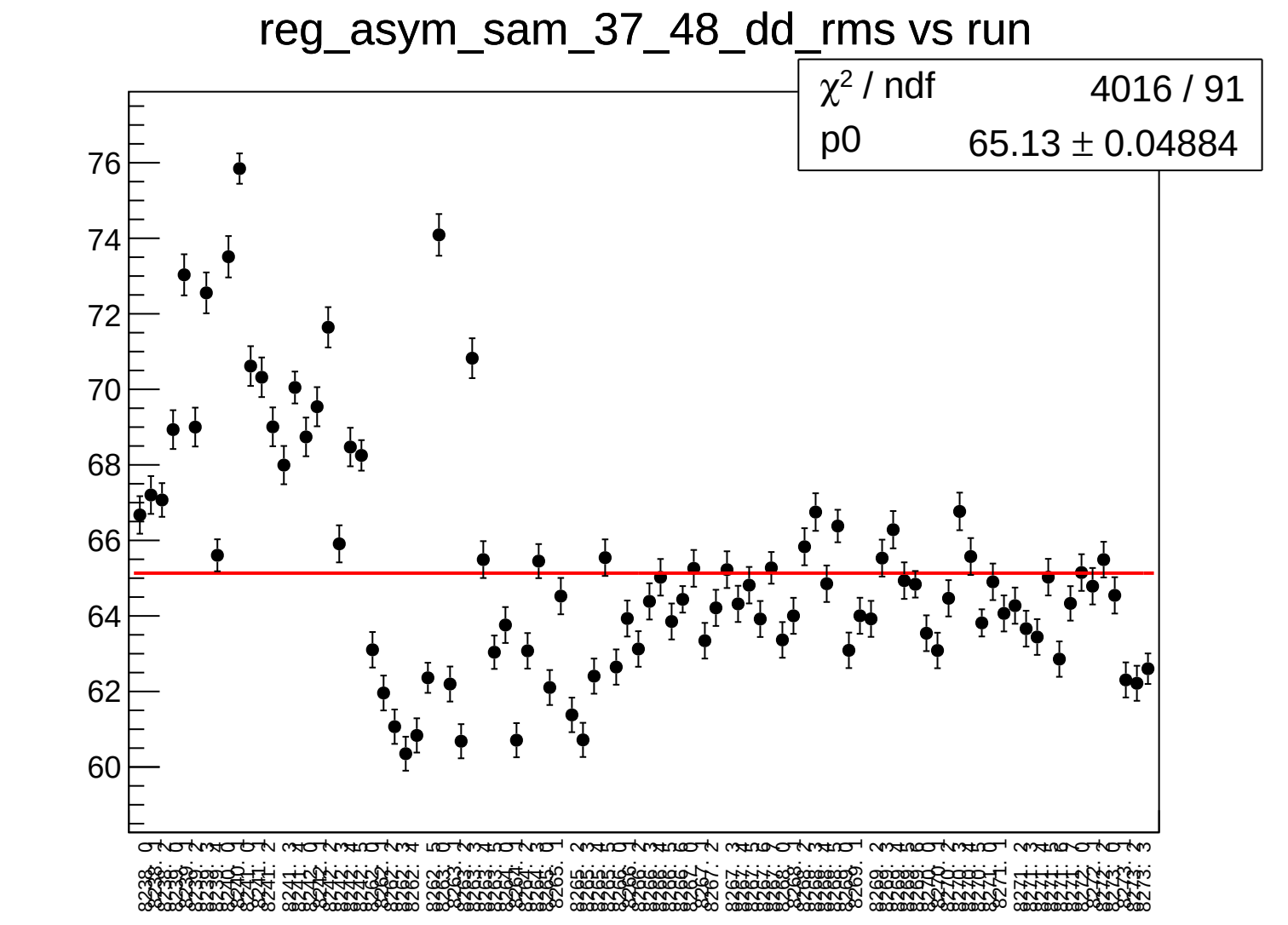


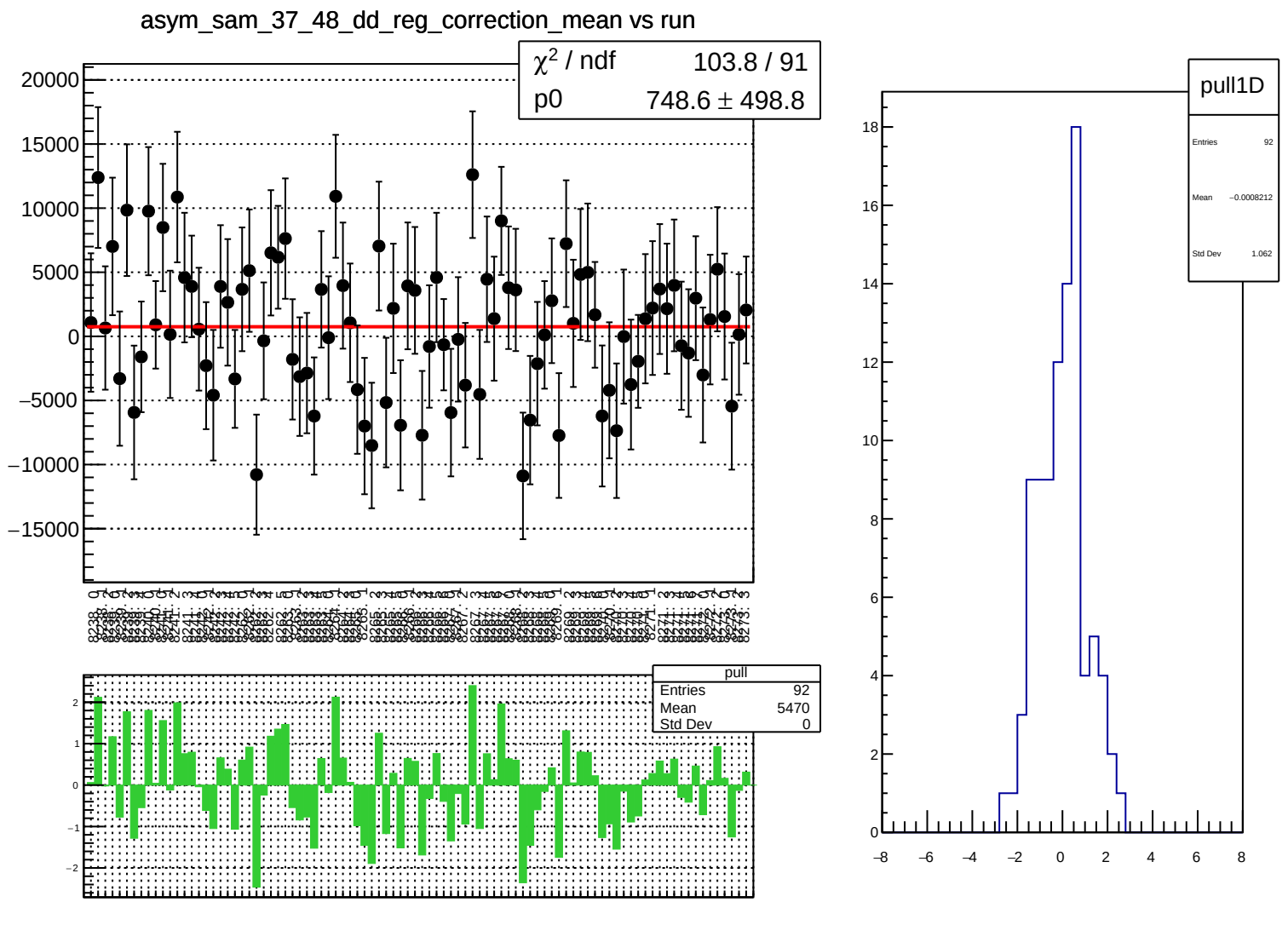



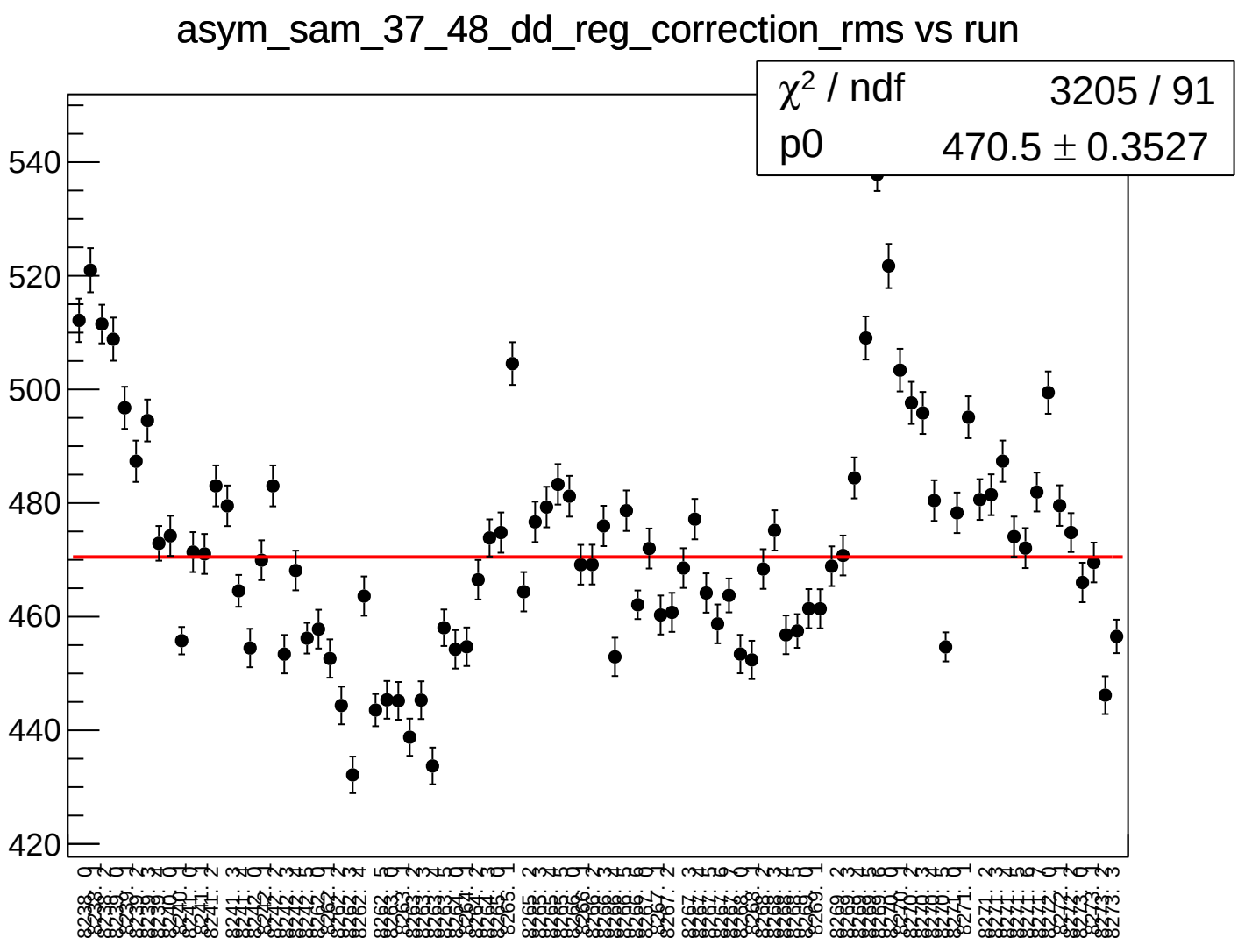

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.953e+05 / 91
p0 5.814e−11 ± 5.124e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

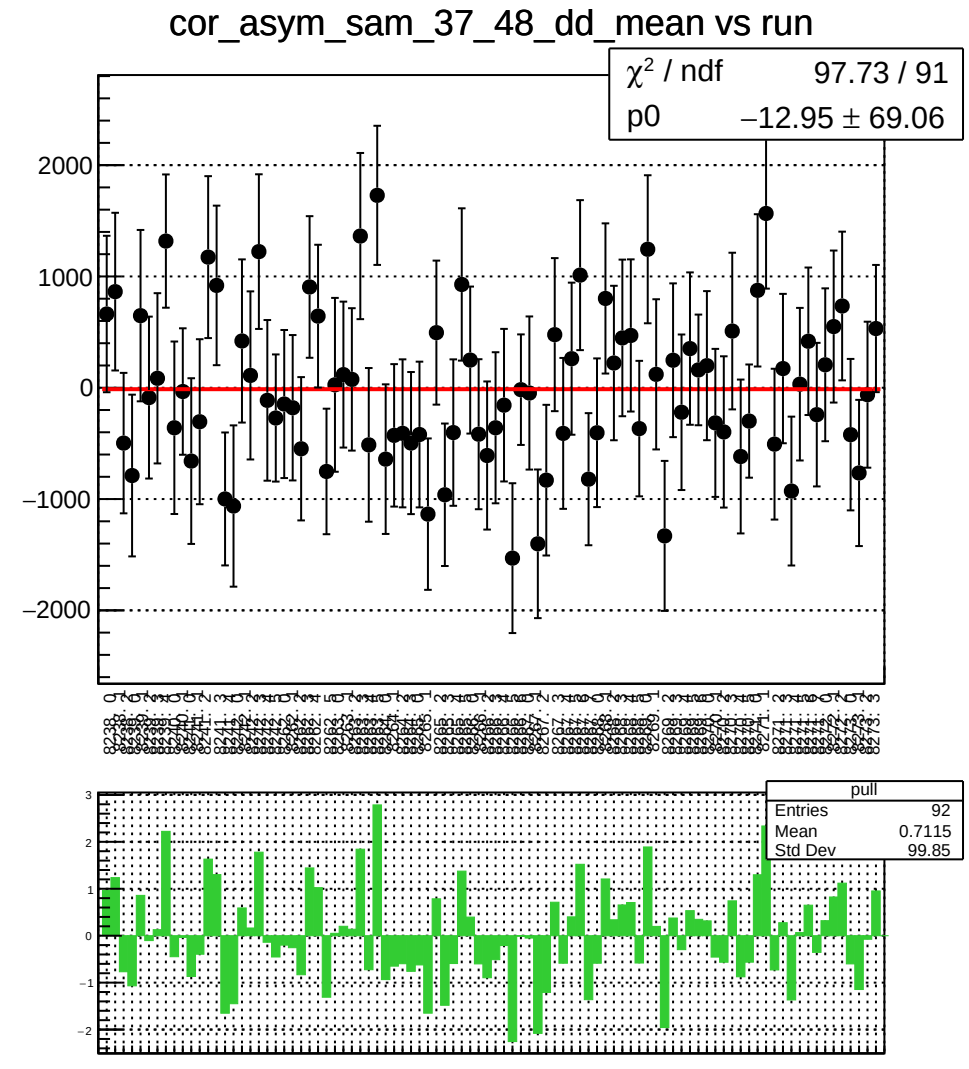

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 97.73 / 91
p0 −12.95 ± 69.06
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 0.6473
Std Dev 99.84
3
2
1
0
−1
−2

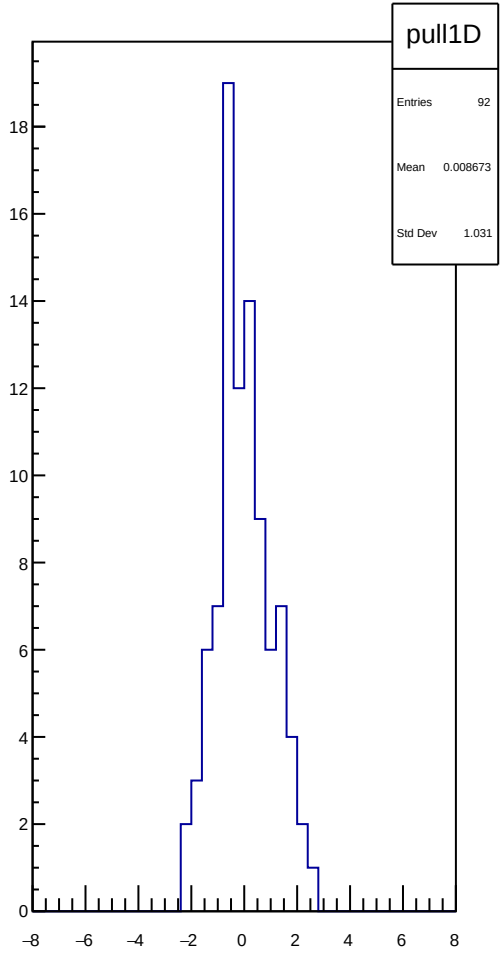

pull1D
Entries 92
Mean 0.008672
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

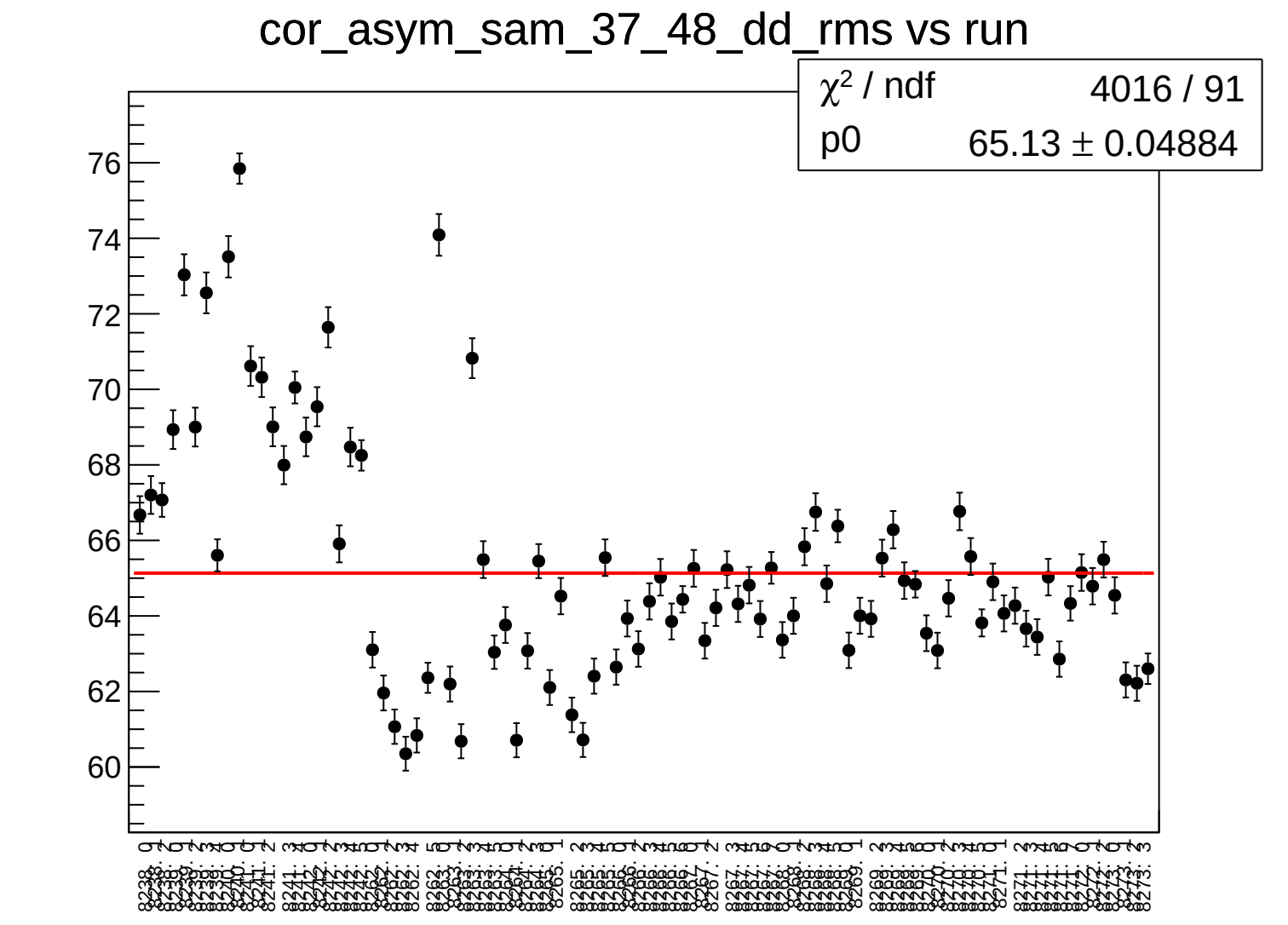

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 4016 / 91
p0 65.13 ± 0.04884
76
74
72
70
68
66
64
62
60

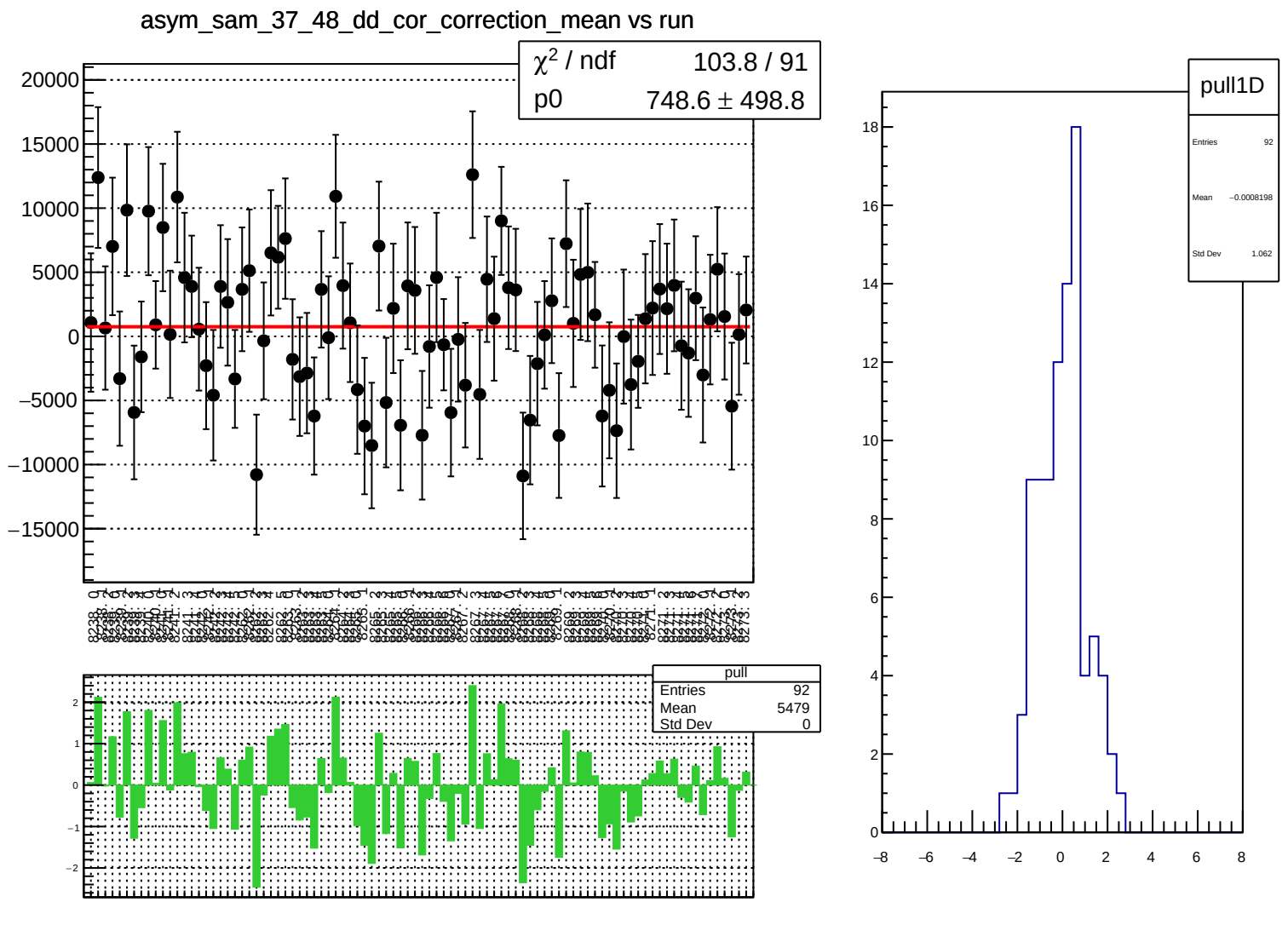

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 103.8 / 91
p0 748.6 ± 498.8
pull
Entries 92
Mean 5470
Std Dev 0
pull1D
Entries 92
Mean −0.0008212
Std Dev 1.062

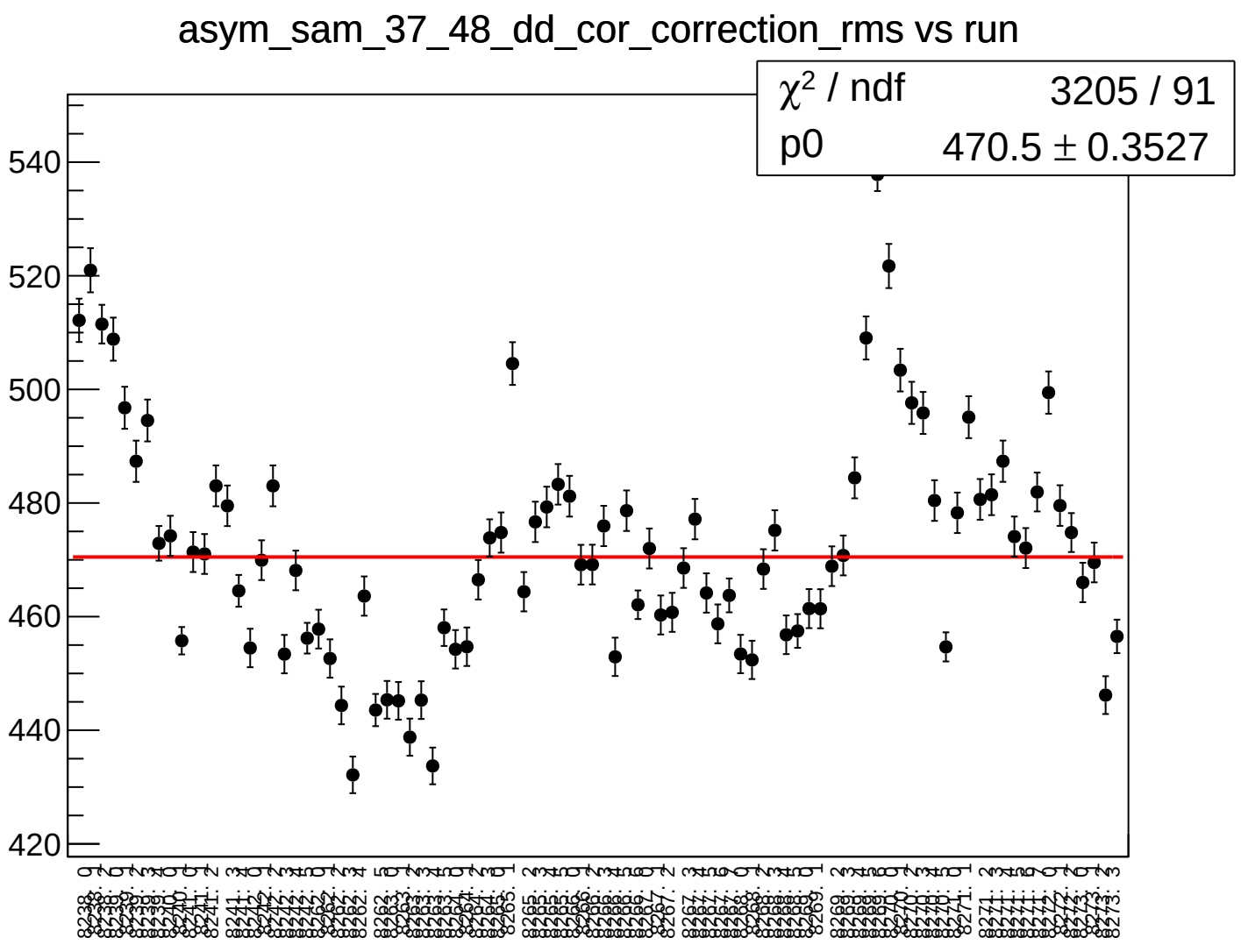

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 3205 / 91
p0 470.5 ± 0.3527
540
520
500
480
460
440
420

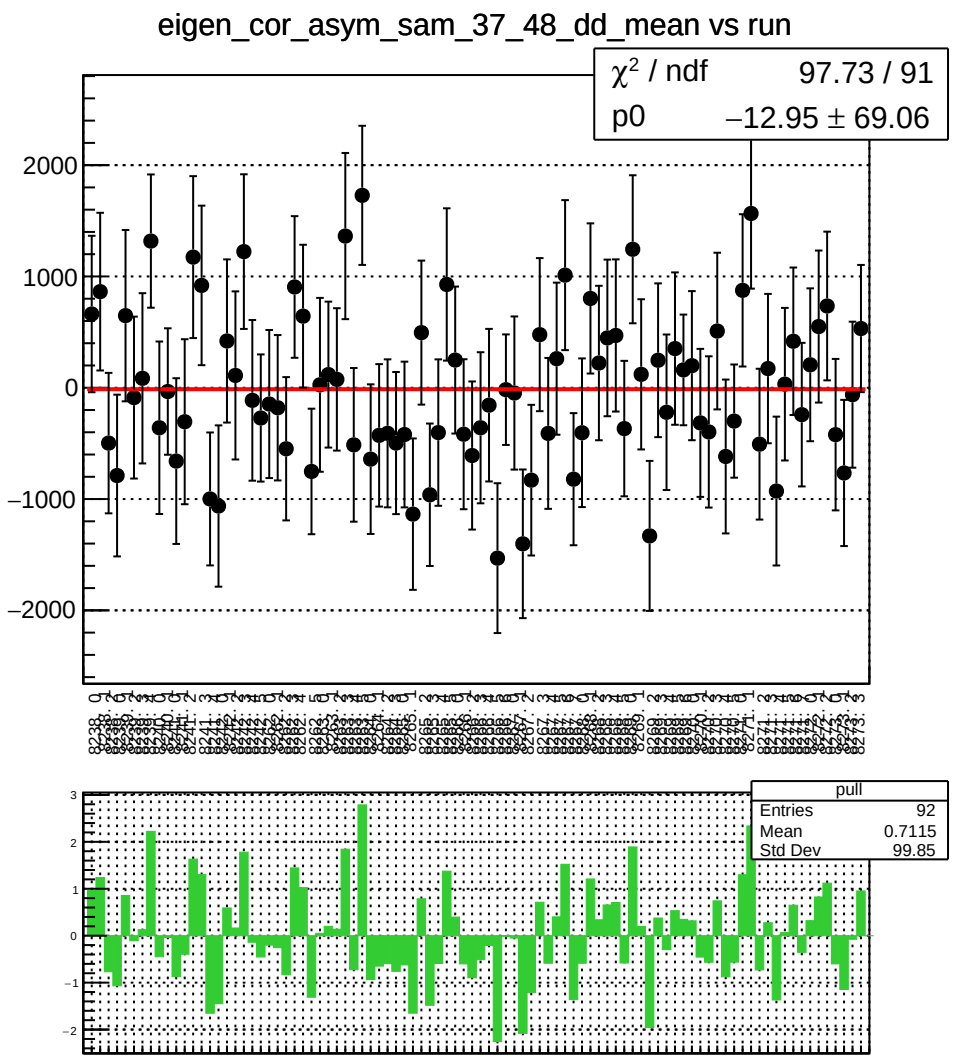

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 97.73 / 91
p0 −12.95 ± 69.06
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 0.7115
Std Dev 99.85
3
2
1
0
−1
−2

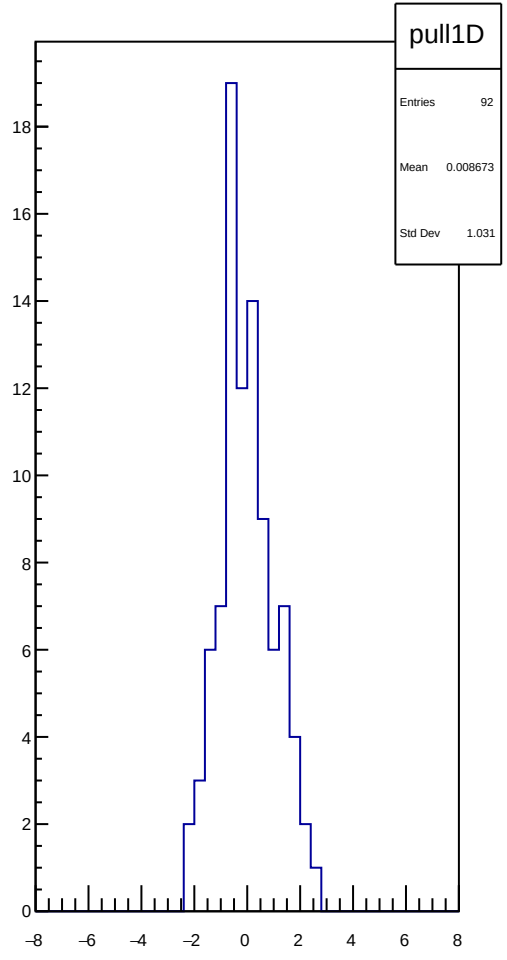

pull1D
Entries 92
Mean 0.008673
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

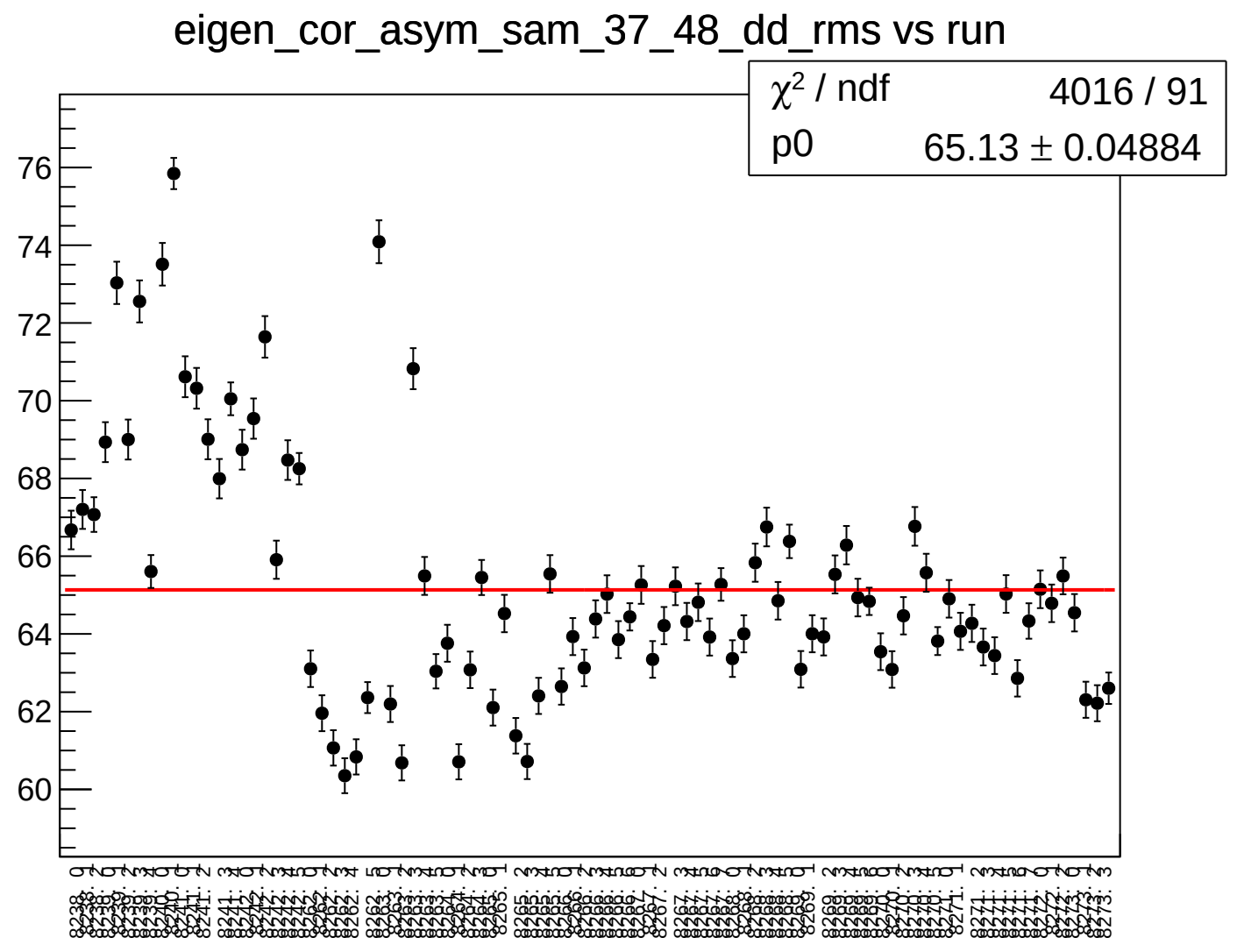

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 4016 / 91
p0 65.13 ± 0.04884
76
74
72
70
68
66
64
62
60

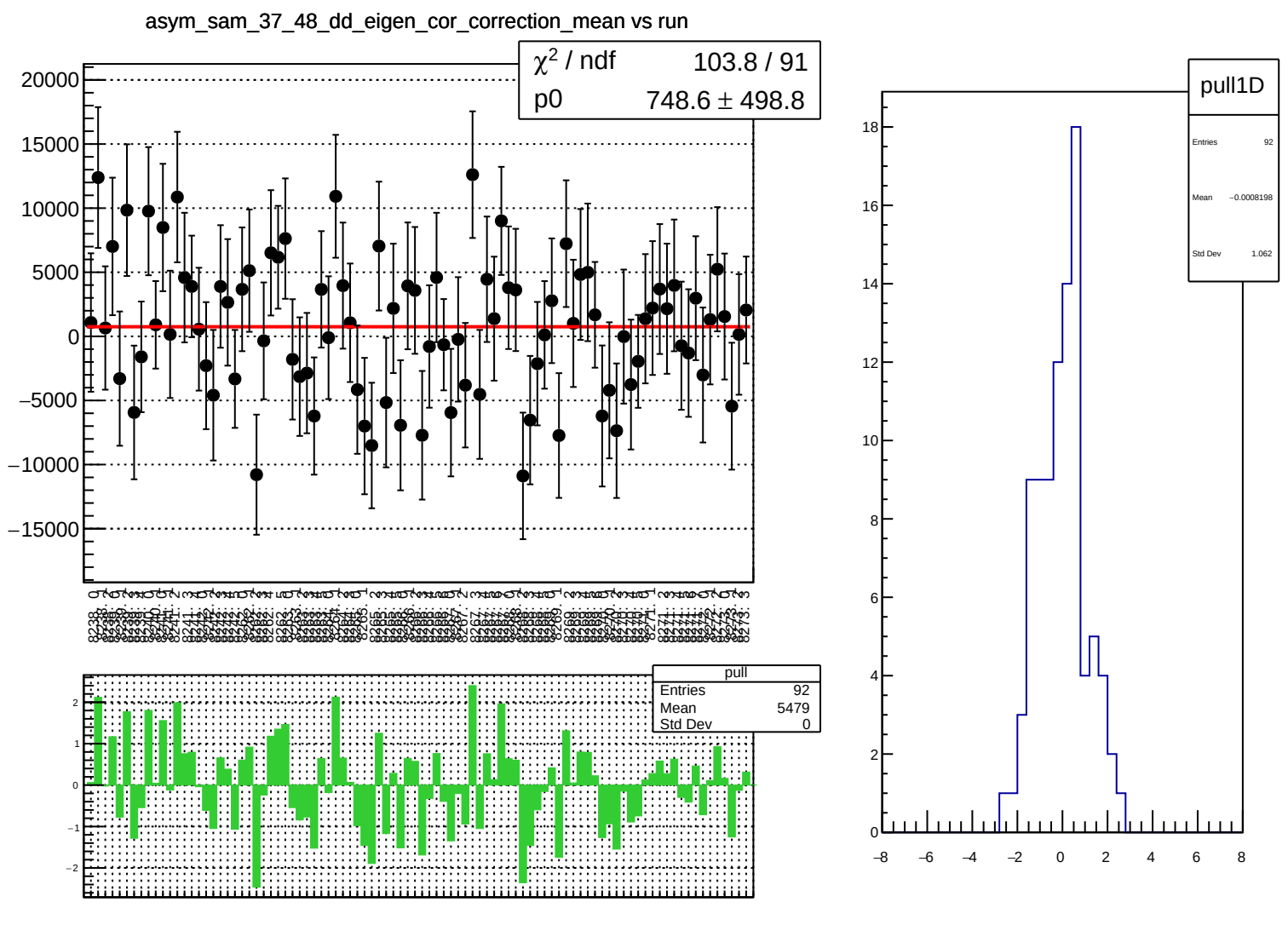

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 103.8 / 91
p0 748.6 ± 498.8
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 5479
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0008198
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

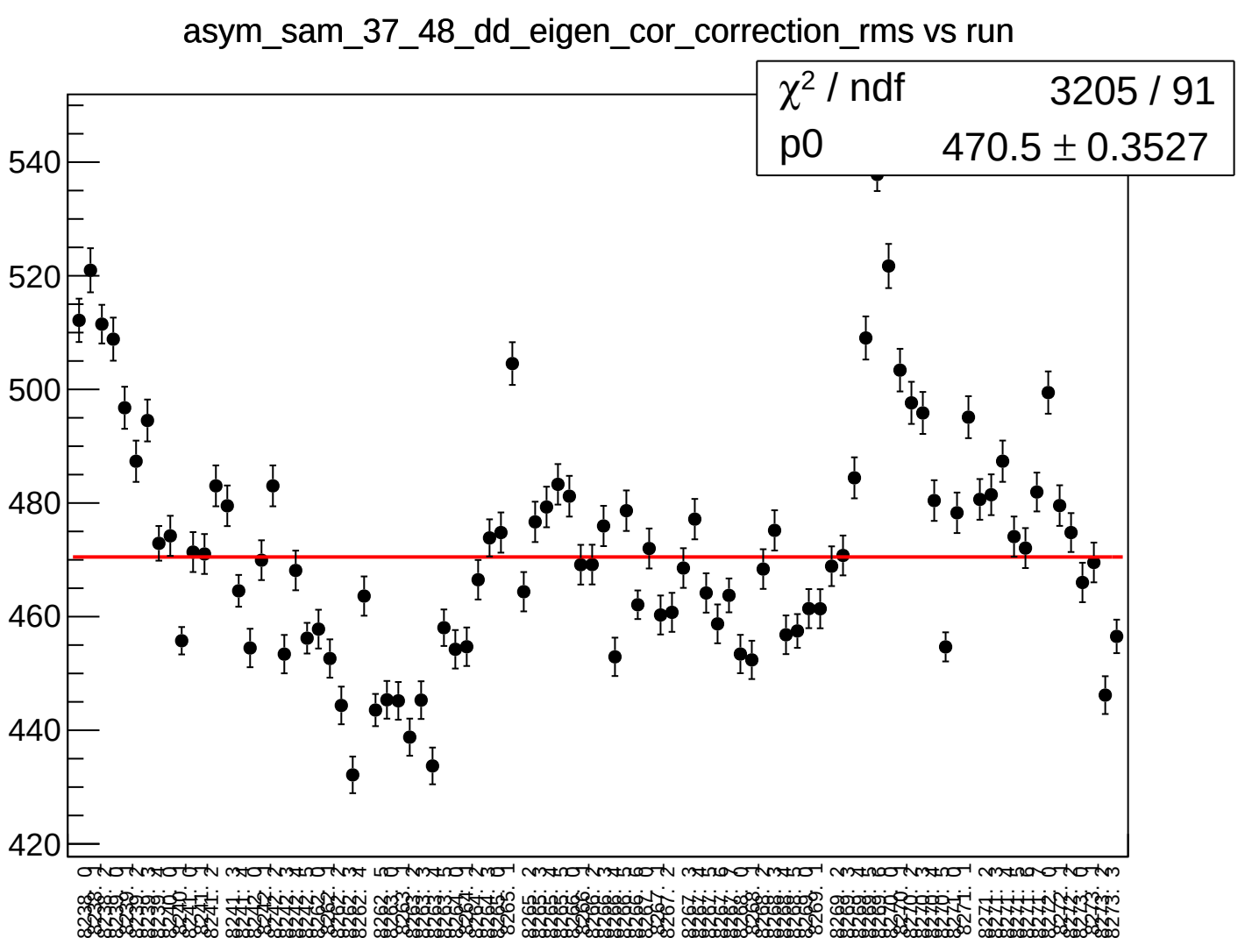

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 3205 / 91
p0 470.5 ± 0.3527
540
520
500
480
460
440
420

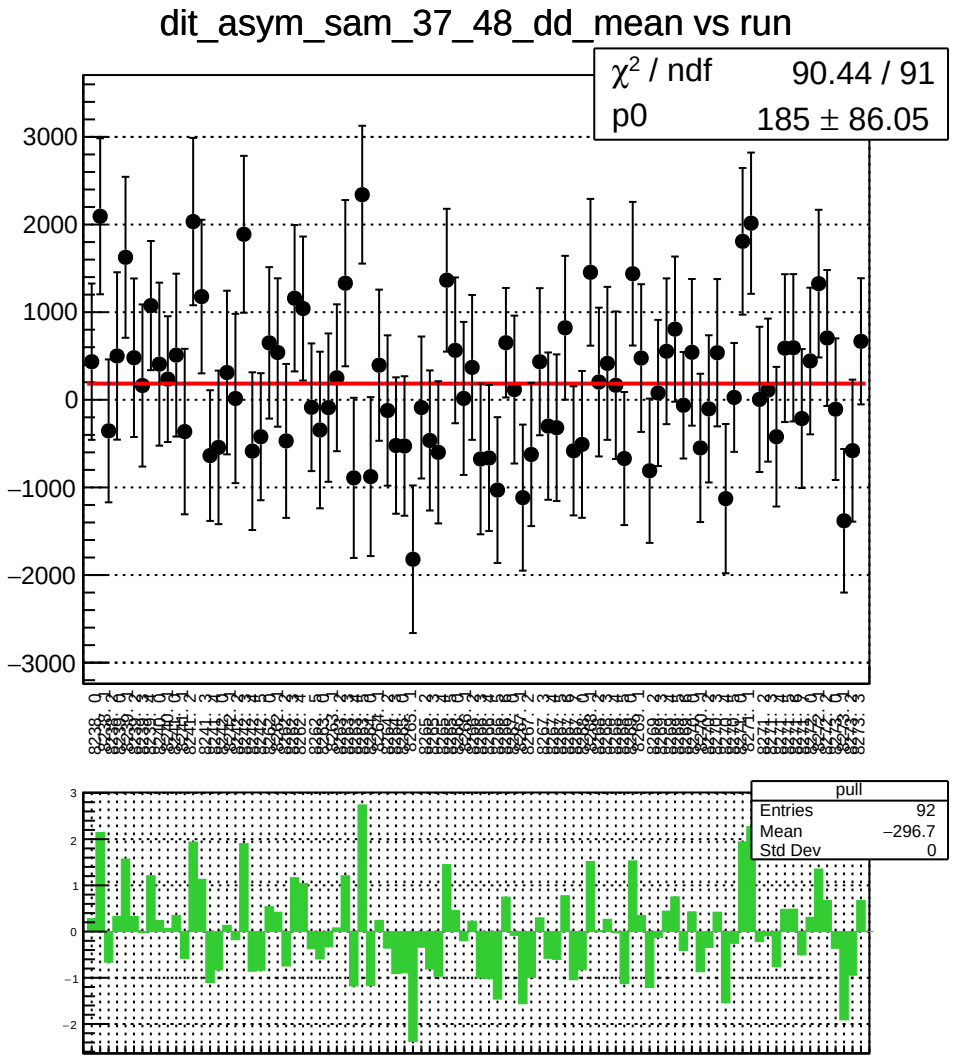

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 97.73 / 91
p0 −12.95 ± 69.06
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 0.7115
Std Dev 99.85
3
2
1
0
−1
−2

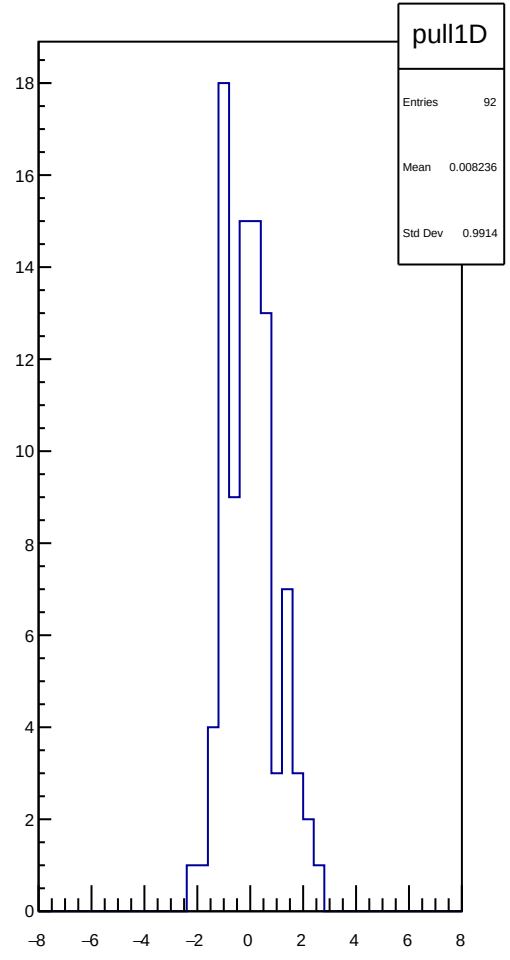

pull1D
Entries 92
Mean 0.008673
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

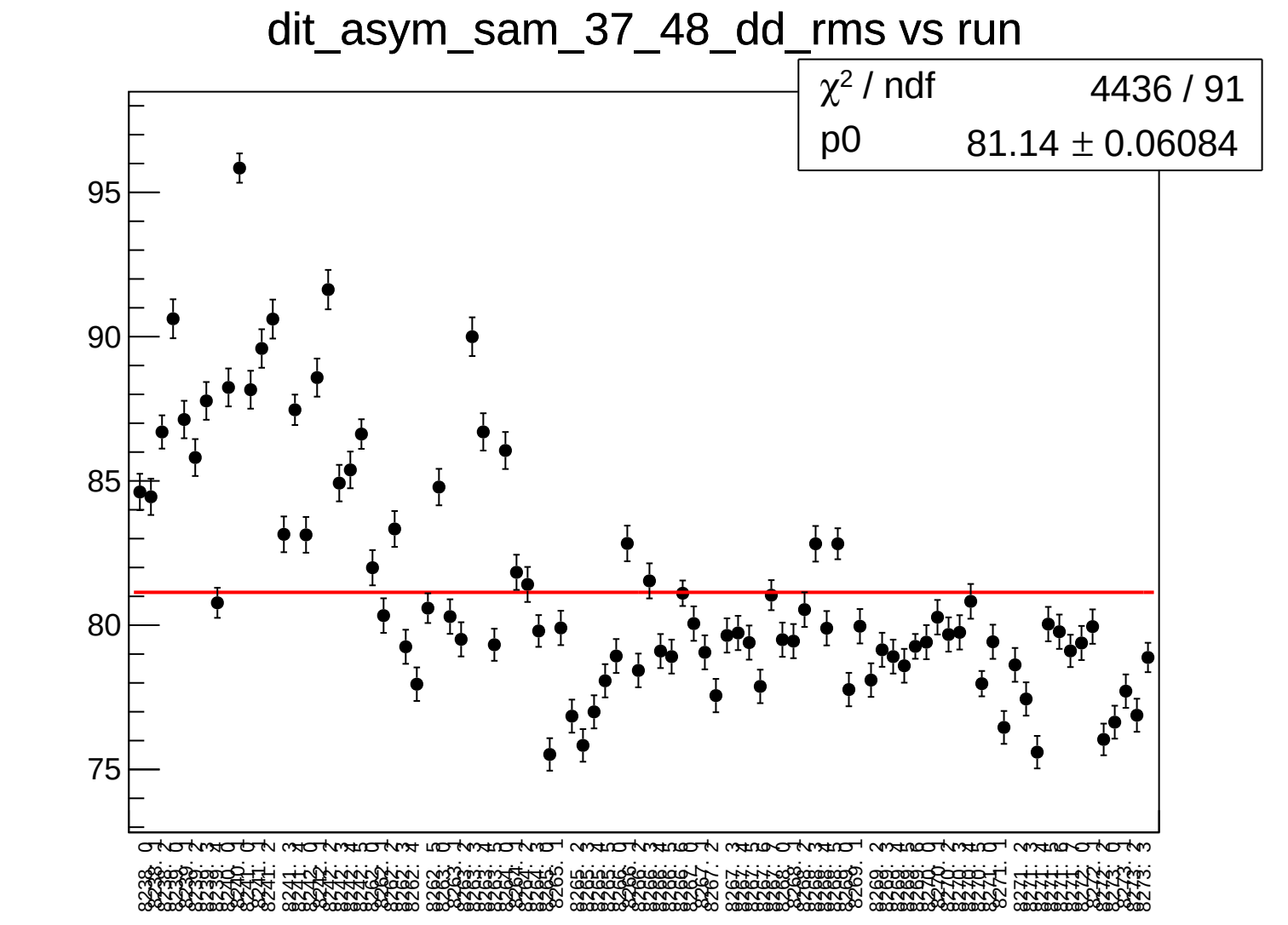

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 4016 / 91
p0 65.13 ± 0.04884
76
74
72
70
68
66
64
62
60

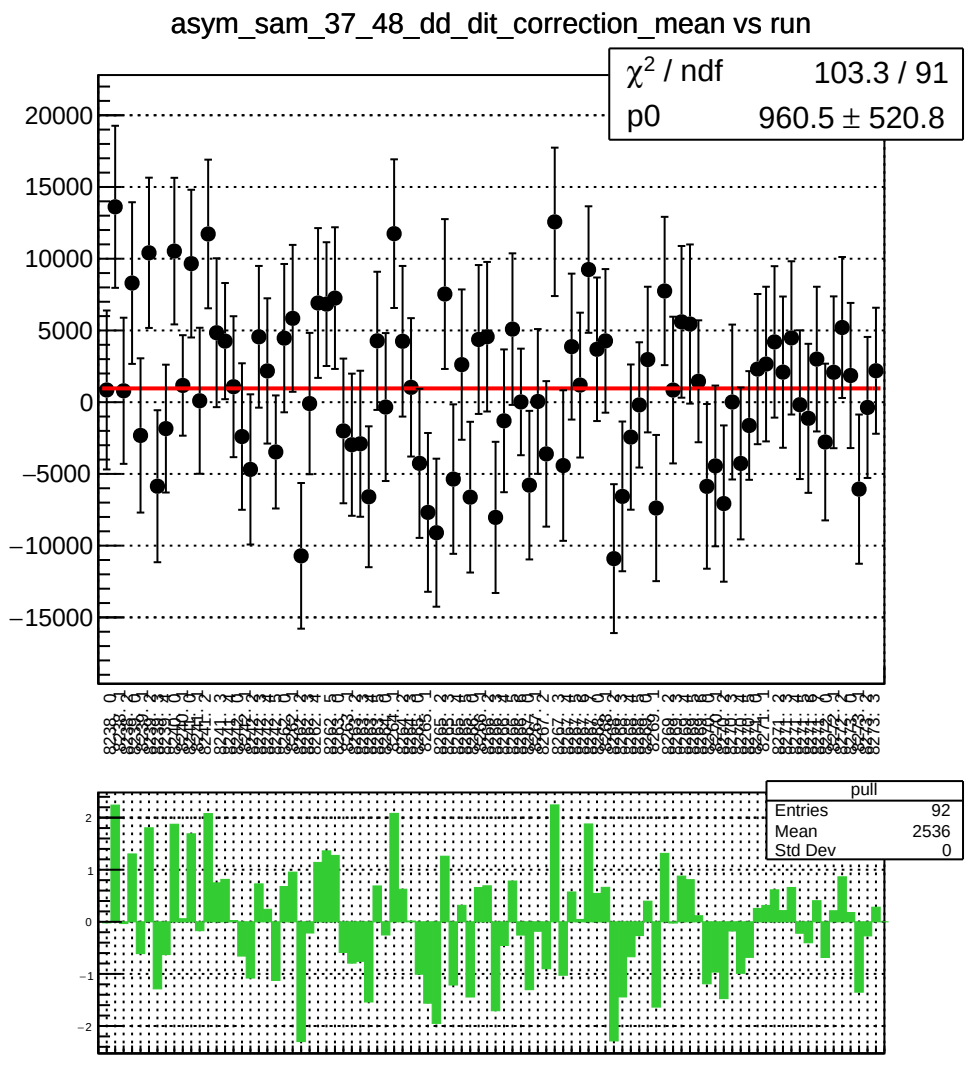

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 103.8 / 91
p0 748.6 ± 498.8
pull
Entries 92
Mean 5479
Std Dev 0
pull1D
Entries 92
Mean −0.0008198
Std Dev 1.062

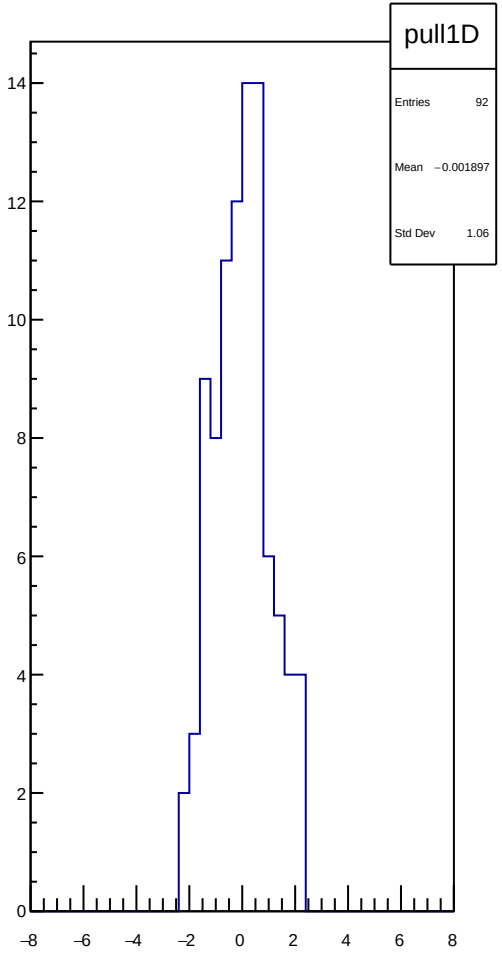

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3205 / 91
p0 470.5 ± 0.3527
540
520
500
480
460
440
420

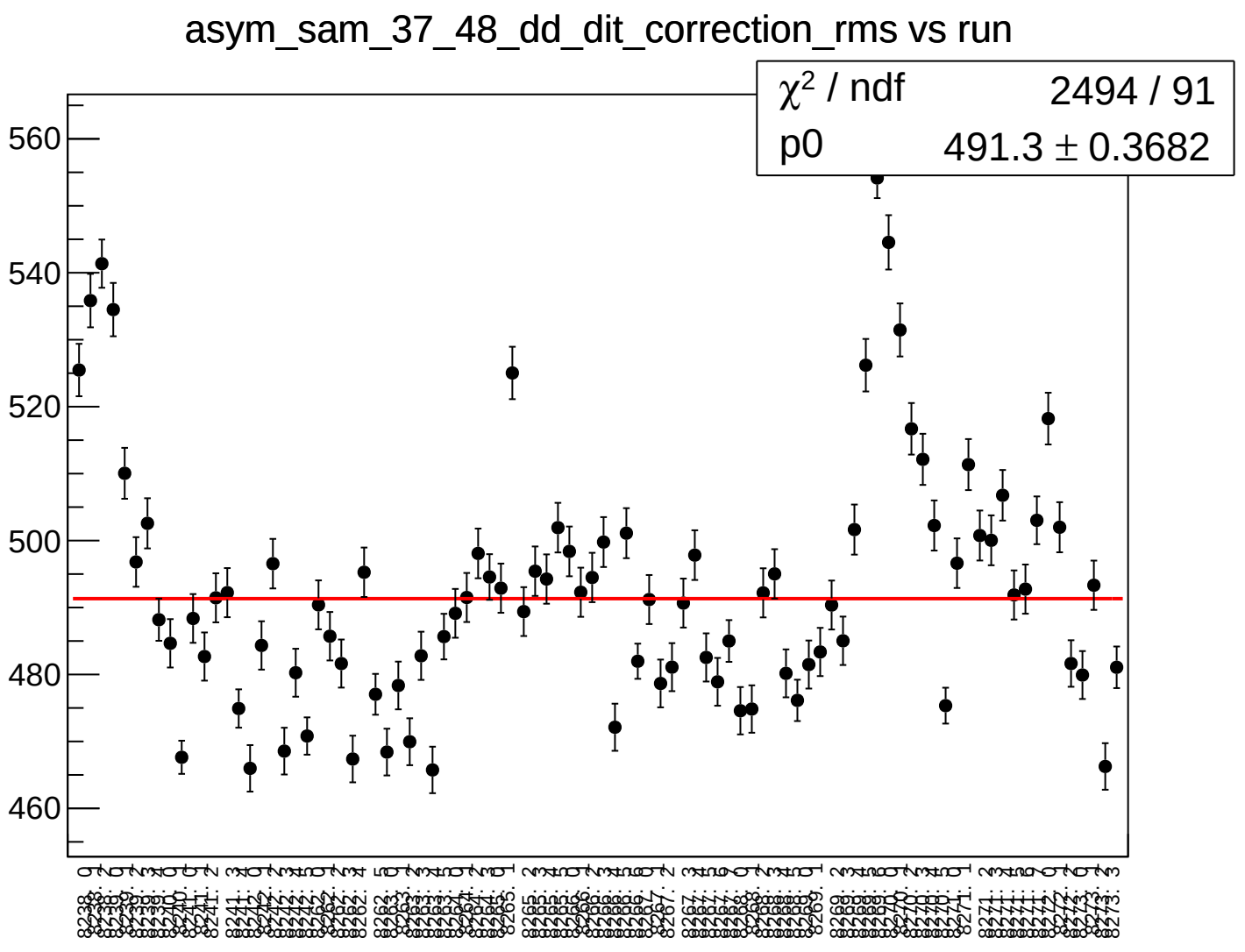

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 90.44 / 91
p0 185 ± 86.05
pull
Entries 92
Mean −296.7
Std Dev 0

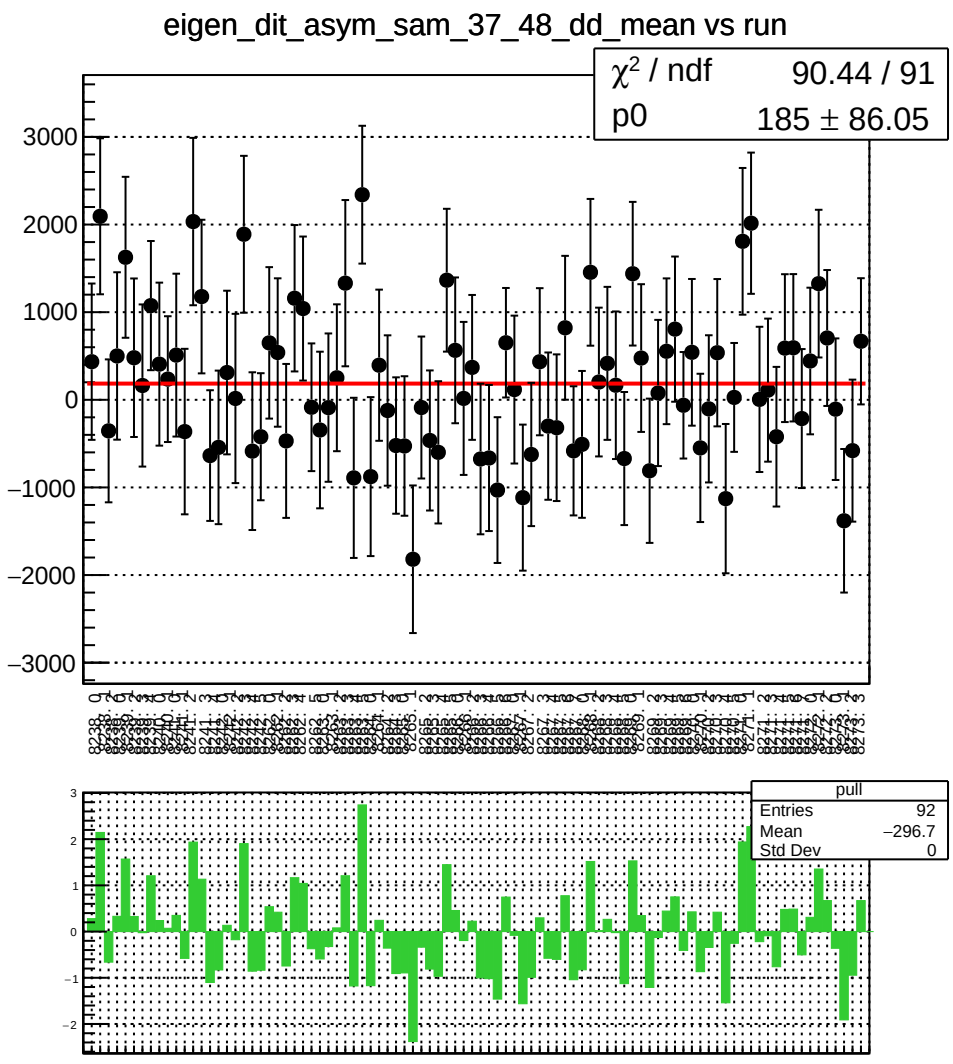

pull1D
Entries 92
Mean 0.008236
Std Dev 0.9914

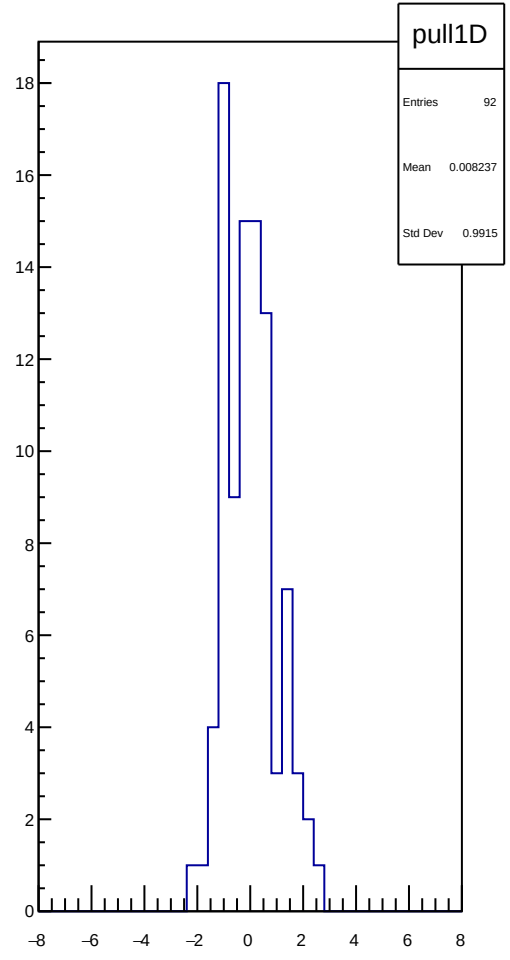

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 4436 / 91
p0 81.14 ± 0.06084
95
90
85
80
75

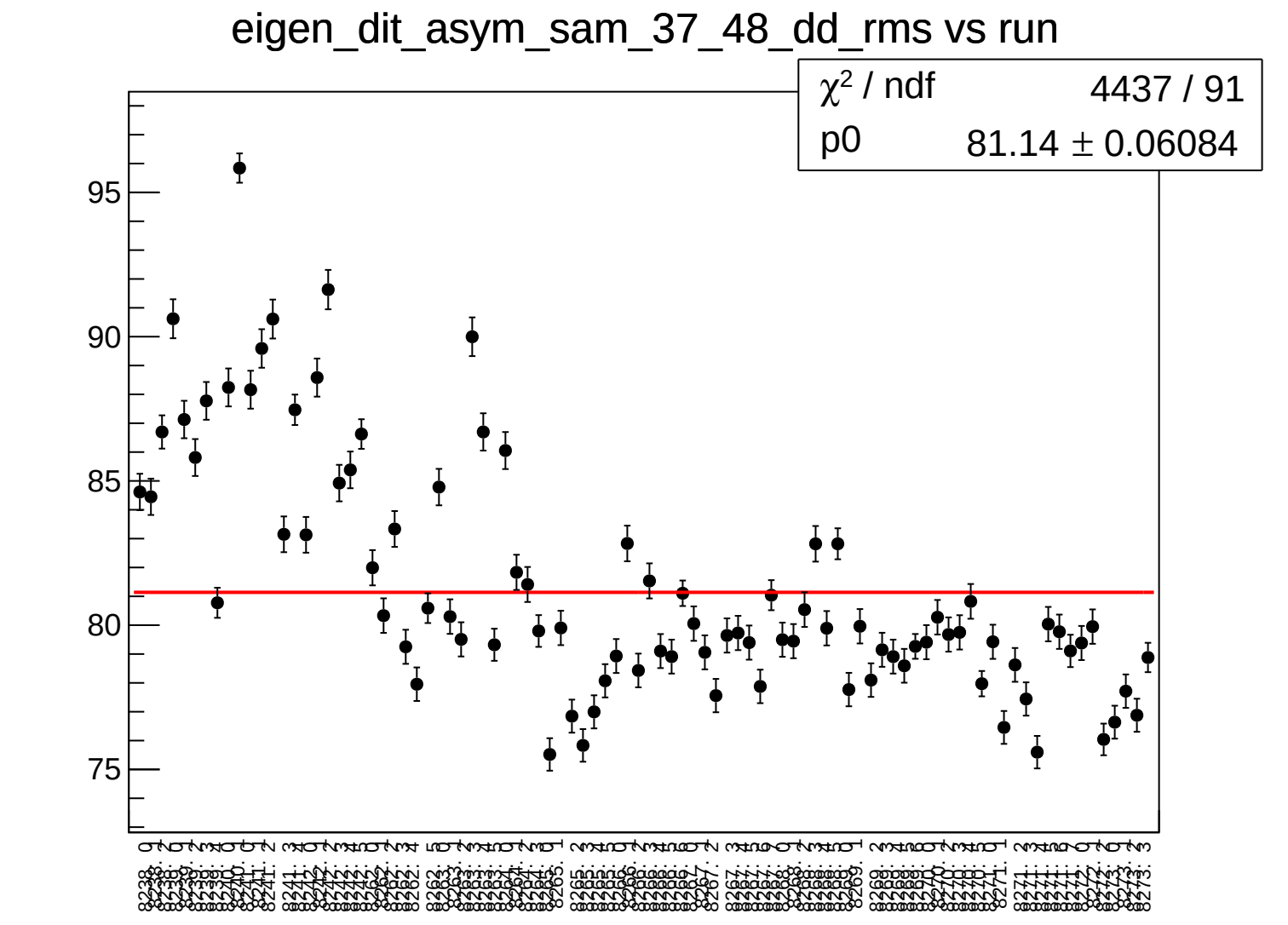

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 103.3 / 91
p0 960.5 ± 520.8
pull
Entries 92
Mean 2536
Std Dev 0

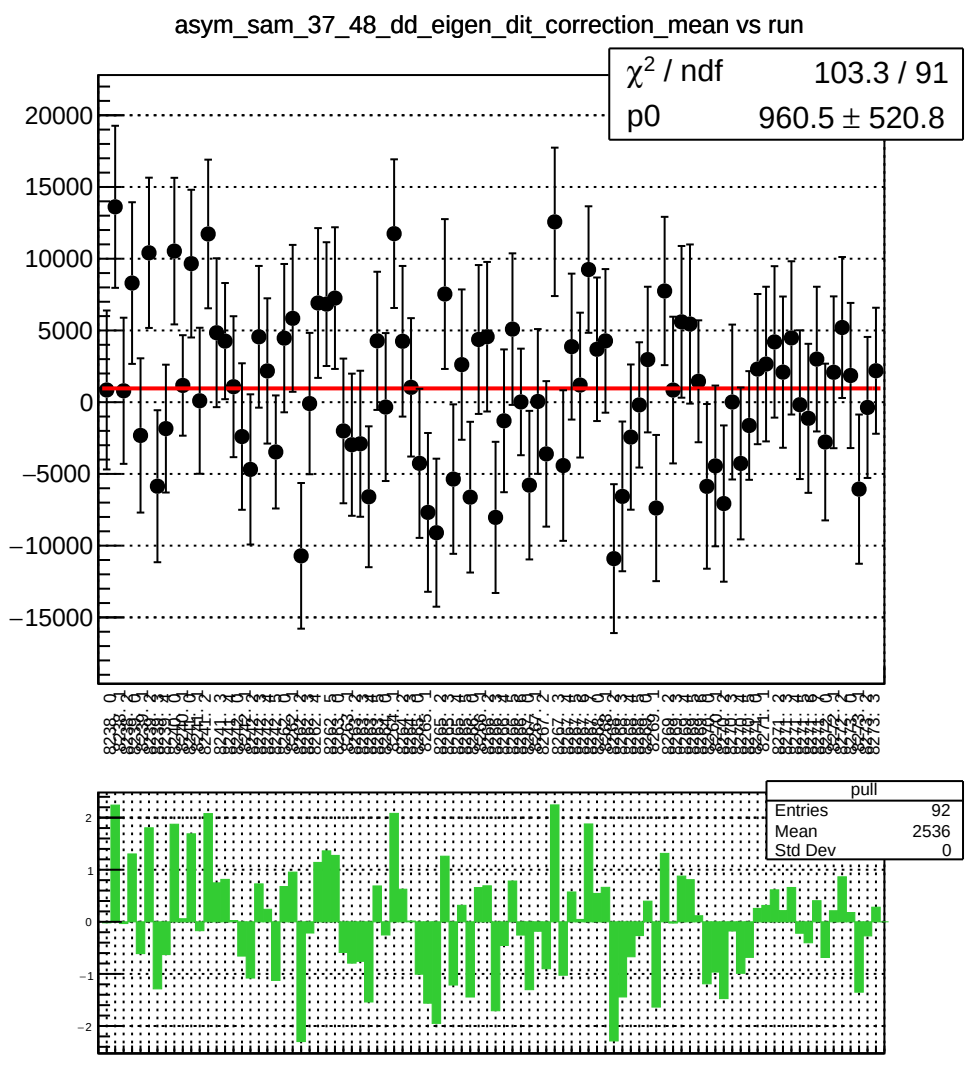

pull1D
Entries 92
Mean −0.001897
Std Dev 1.06

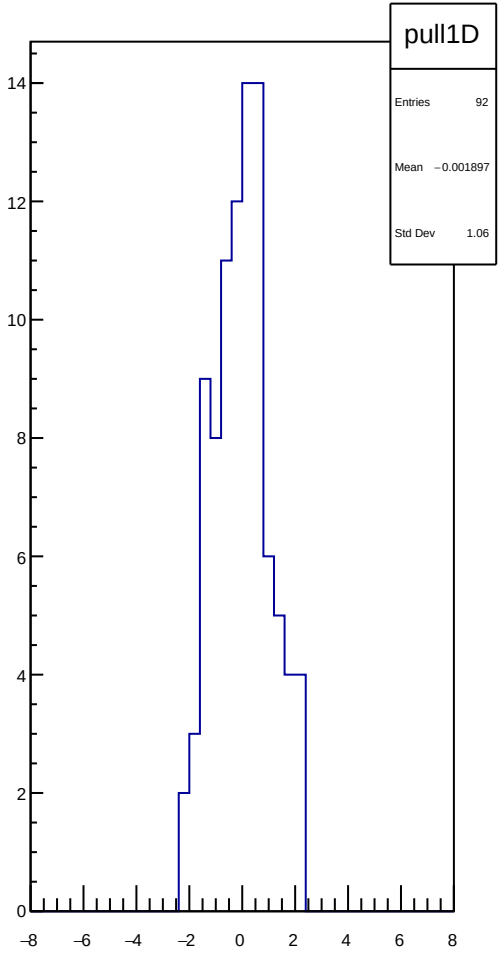

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 2494 / 91
p0 491.3 ± 0.3682
560
540
520
500
480
460

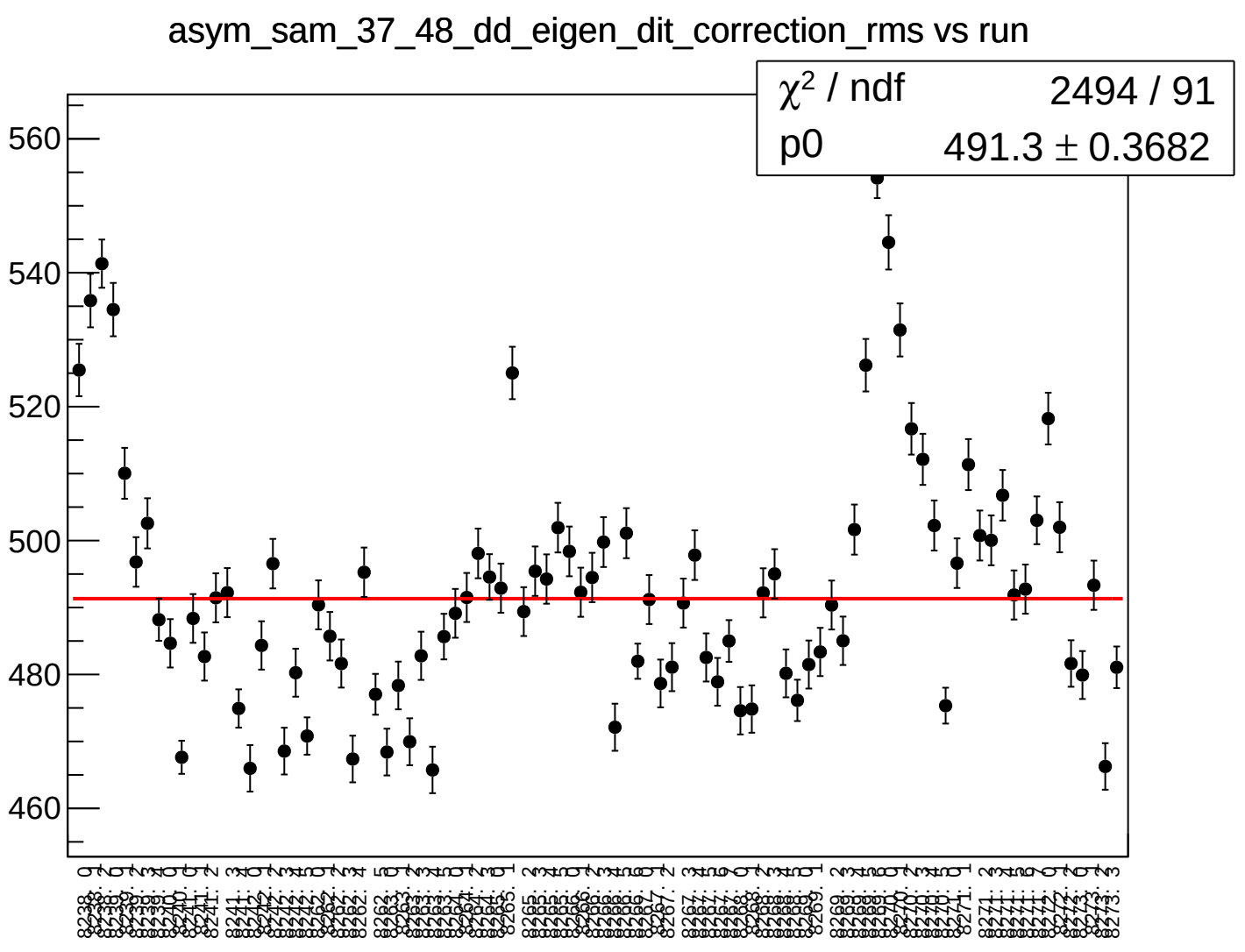

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 90.44 / 91
p0 185 ± 86.05
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −296.7
Std Dev 0
3
2
1
0
−1
−2

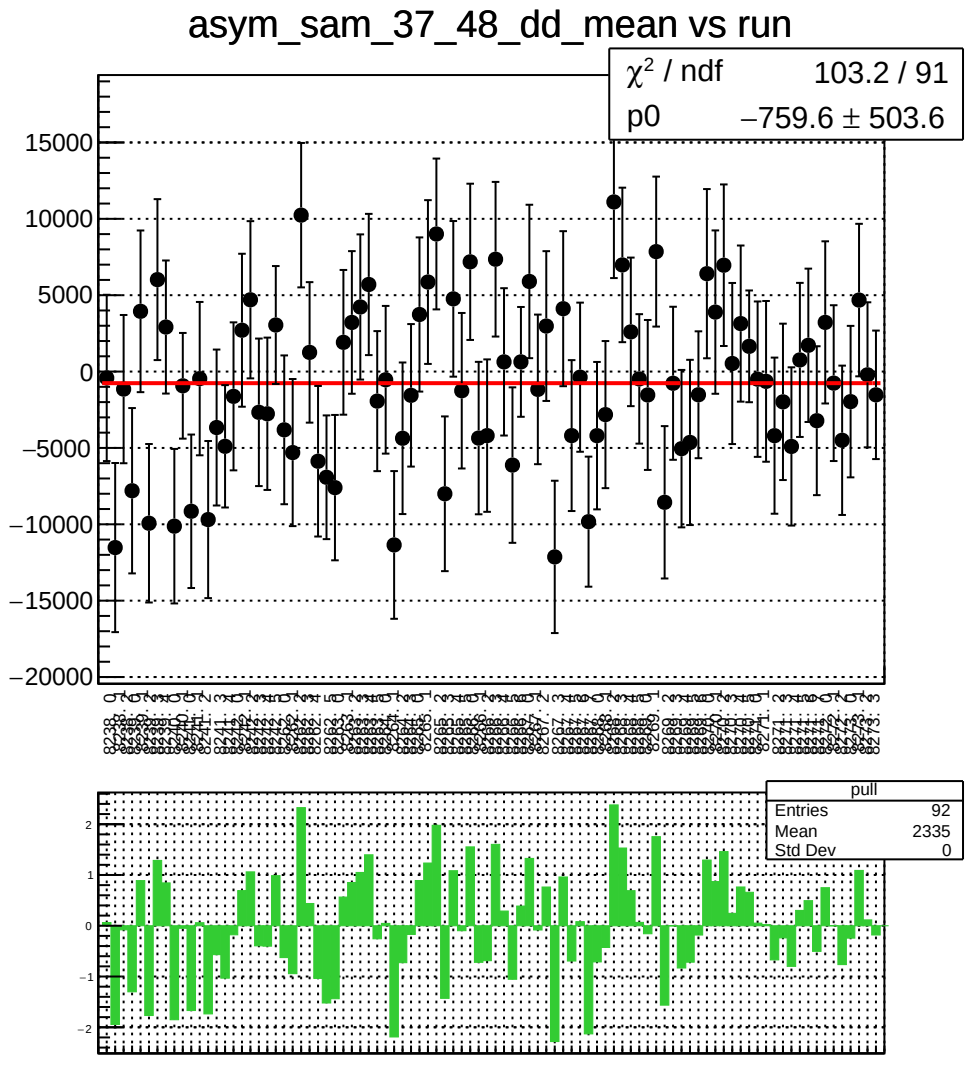

pull1D
Entries 92
Mean 0.008237
Std Dev 0.9915
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

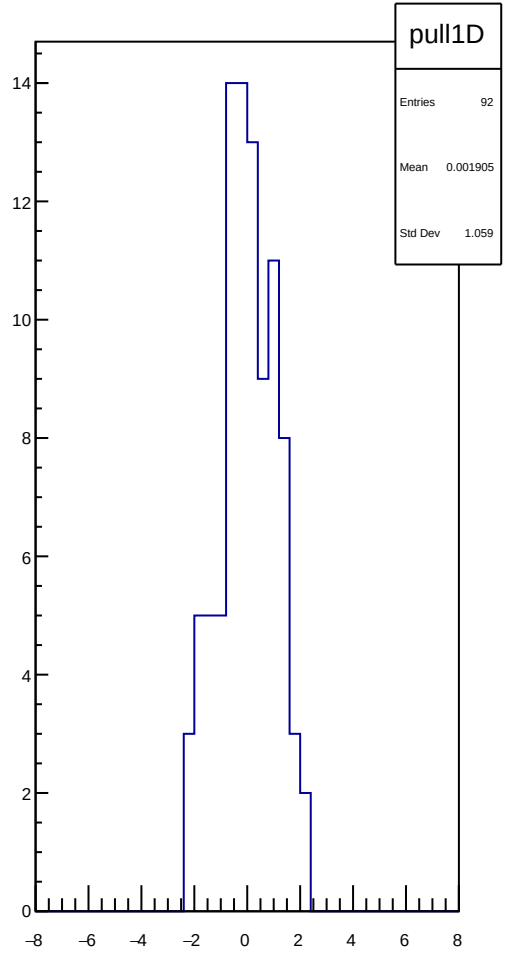

eigen_dit_asym_sam_37_48_dd_rms vs run
$\chi^2$ / ndf 4437 / 91
p0 81.14 ± 0.06084
95
90
85
80
75

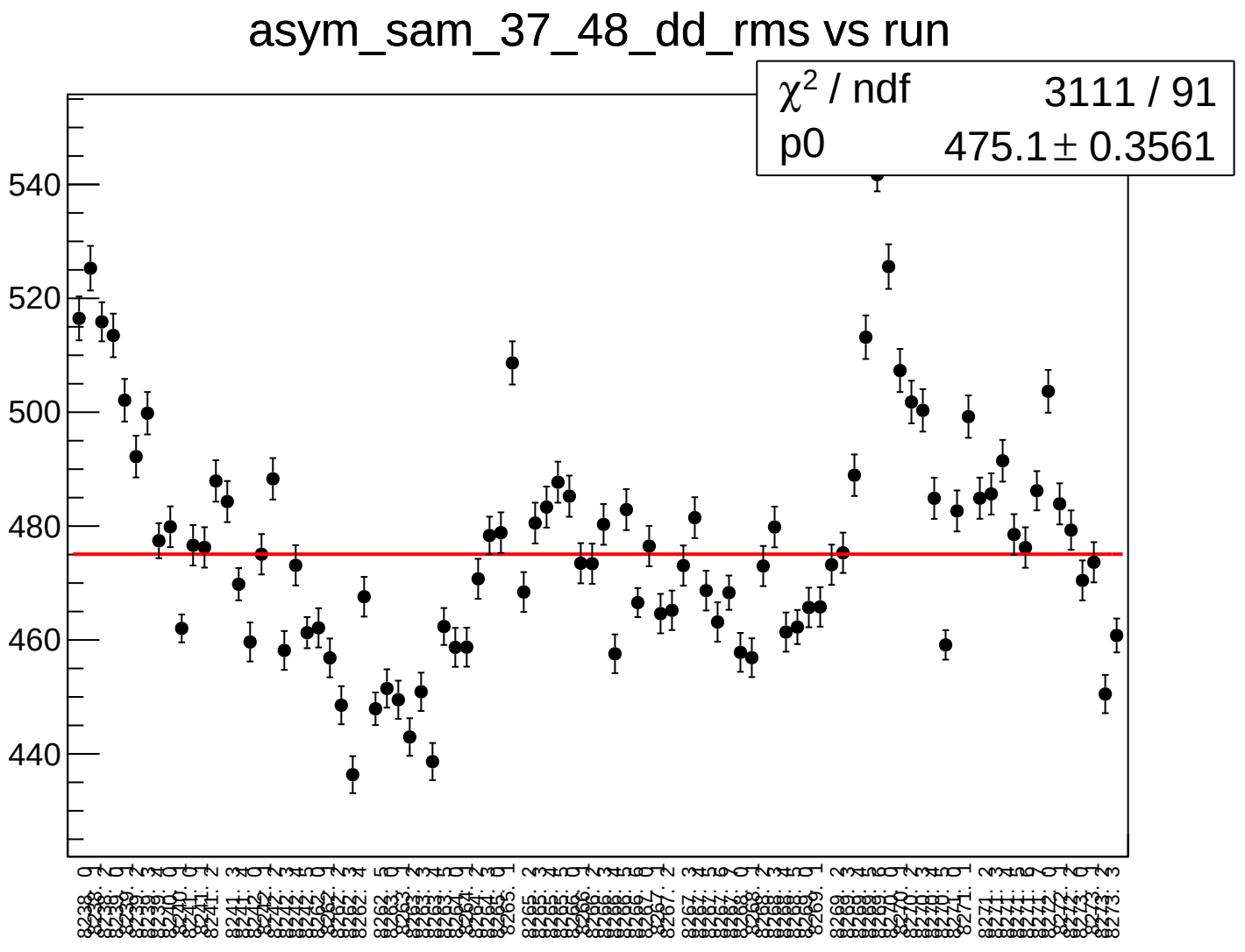

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 103.3 / 91
p0 960.5 ± 520.8
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 2536
Std Dev 0
2
1
0
−1
−2

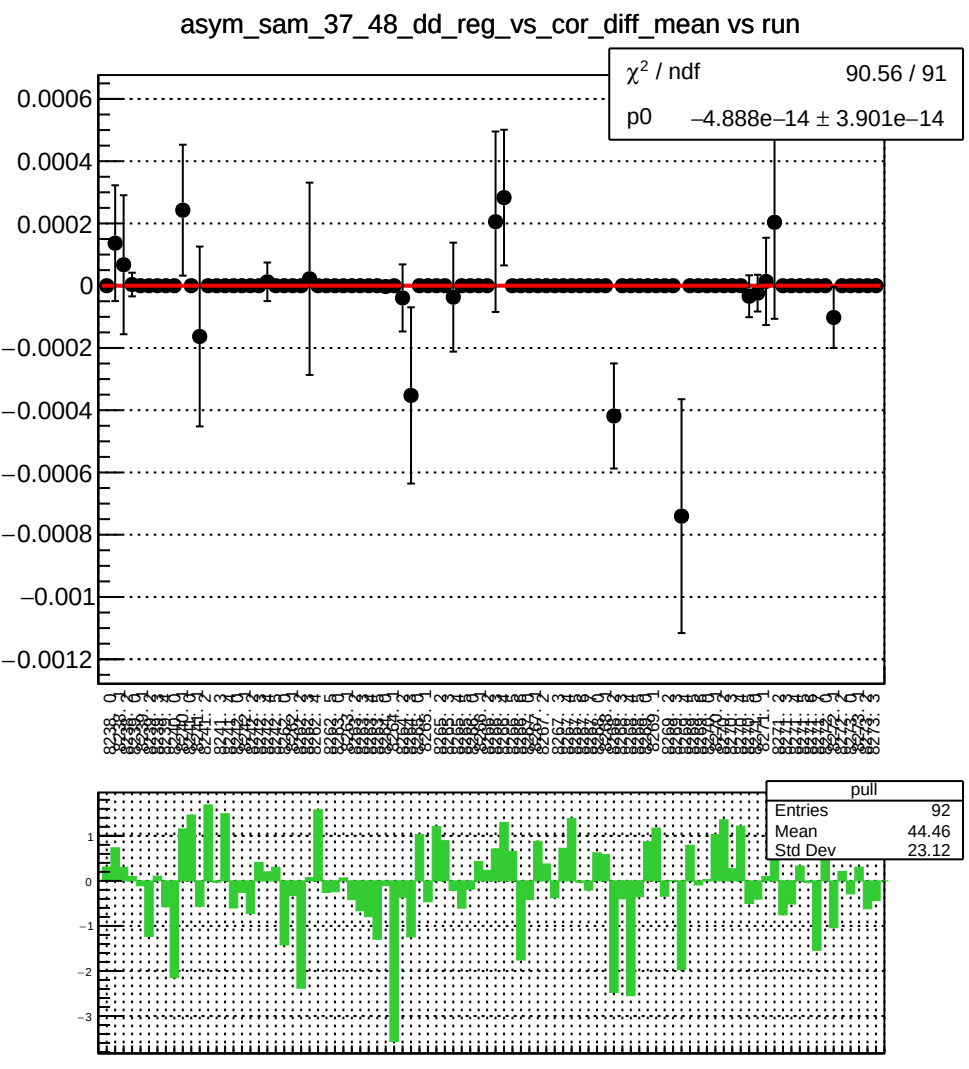

pull1D
Entries 92
Mean −0.001897
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

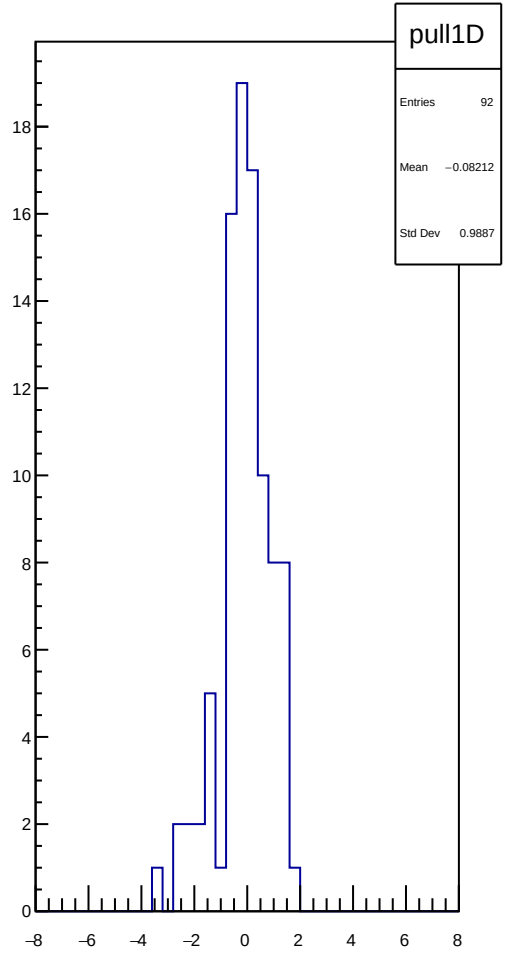

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2494 / 91
p0 491.3 ± 0.3682
560
540
520
500
480
460

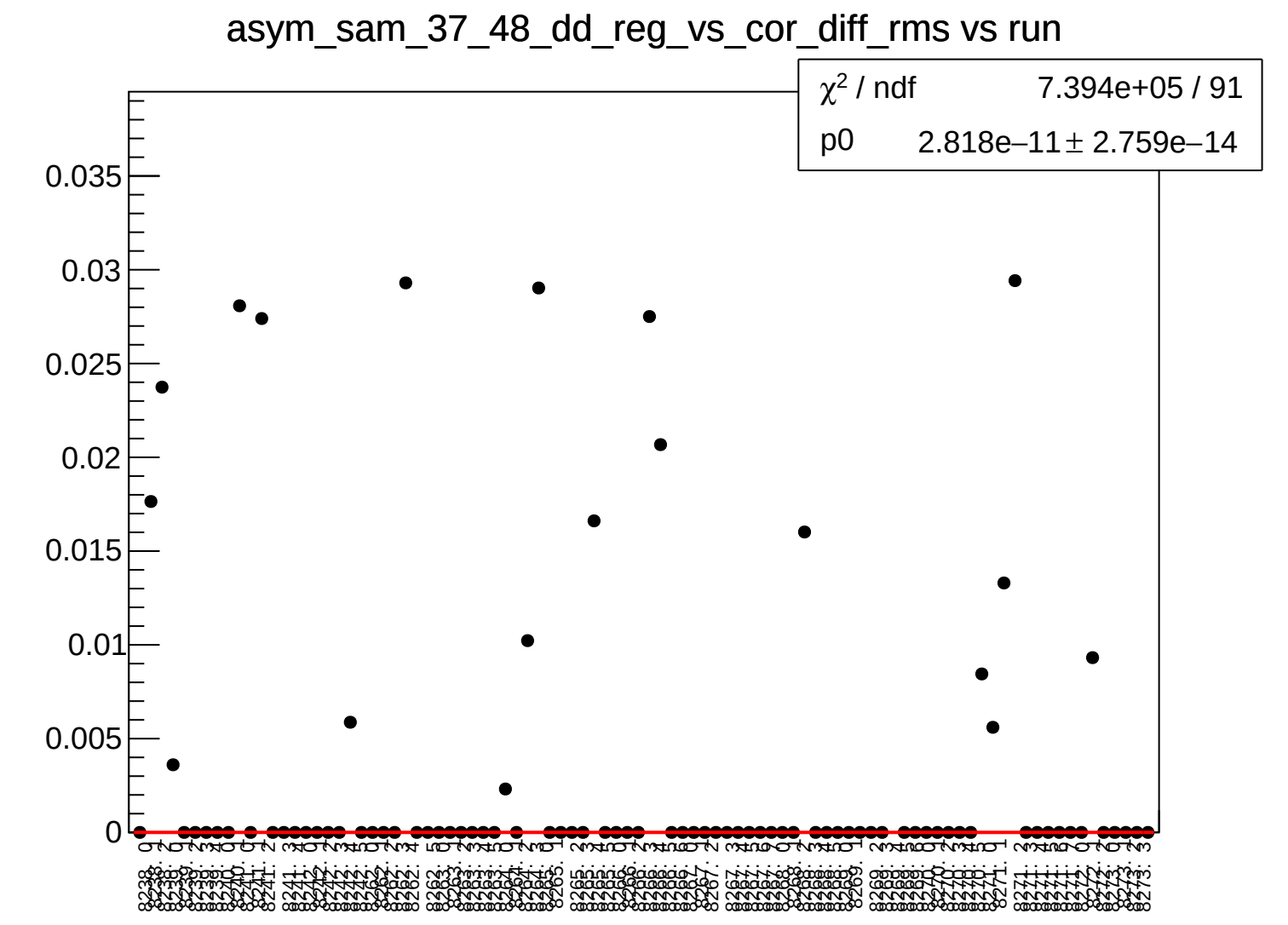

asym_sam_37_48_dd_mean vs run
χ² / ndf 103.2 / 91
p0 −759.6 ± 503.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean 2335
Std Dev 0
2
1
0
−1
−2

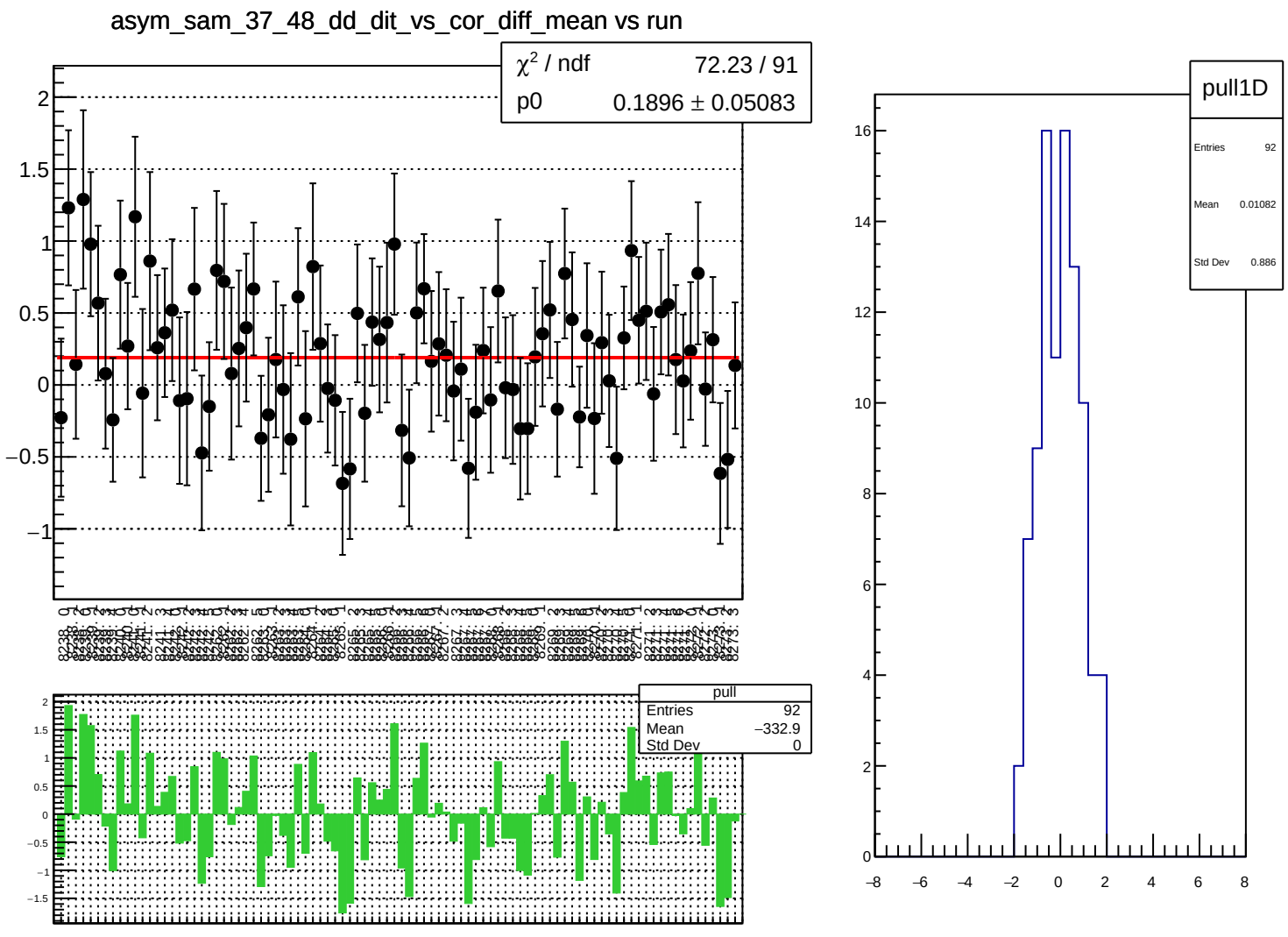

pull1D
Entries 92
Mean 0.001905
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

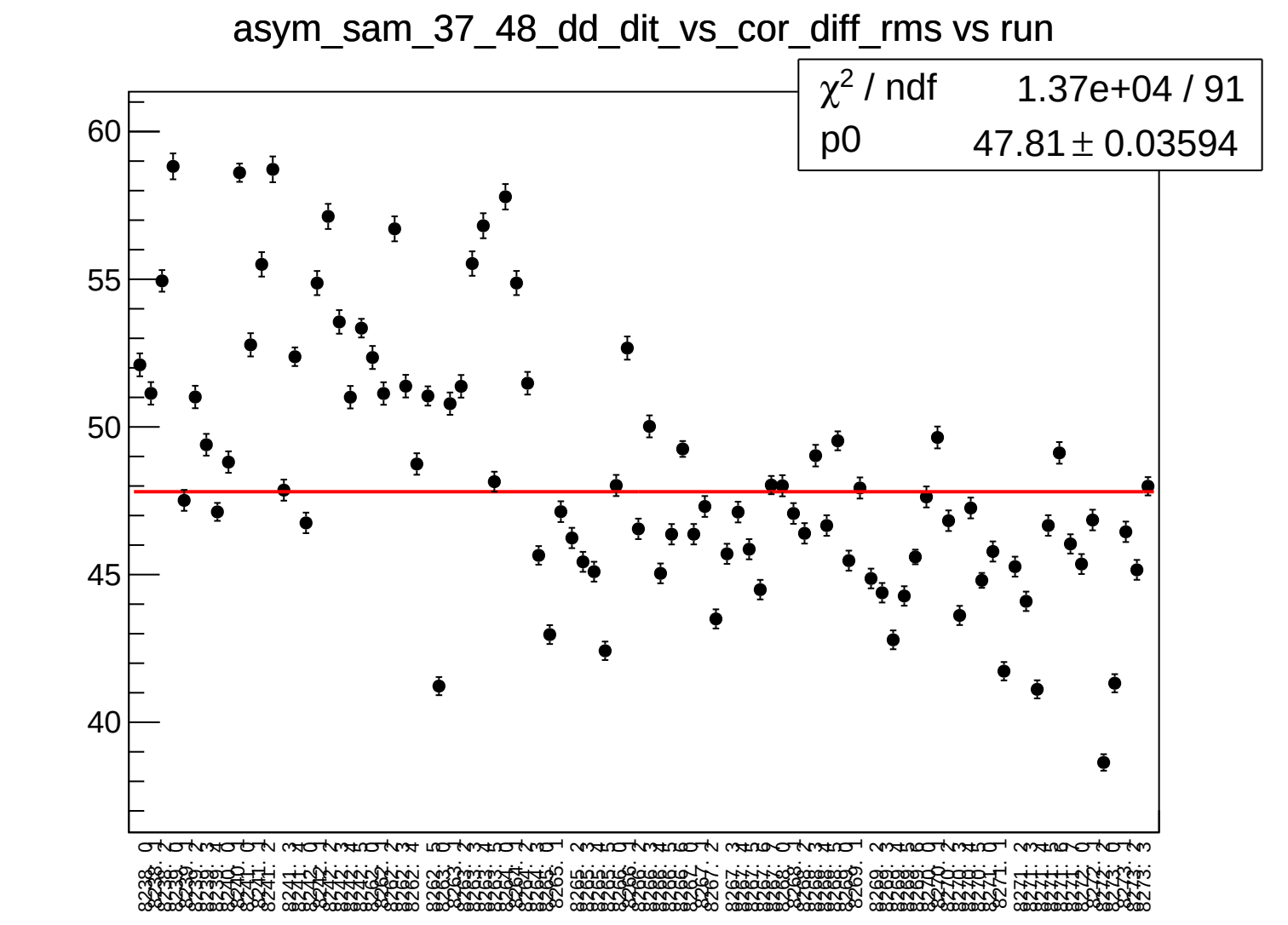

asym_sam_37_48_dd_rms vs run
$\chi^2$ / ndf 3111 / 91
p0 475.1 ± 0.3561
540
520
500
480
460
440

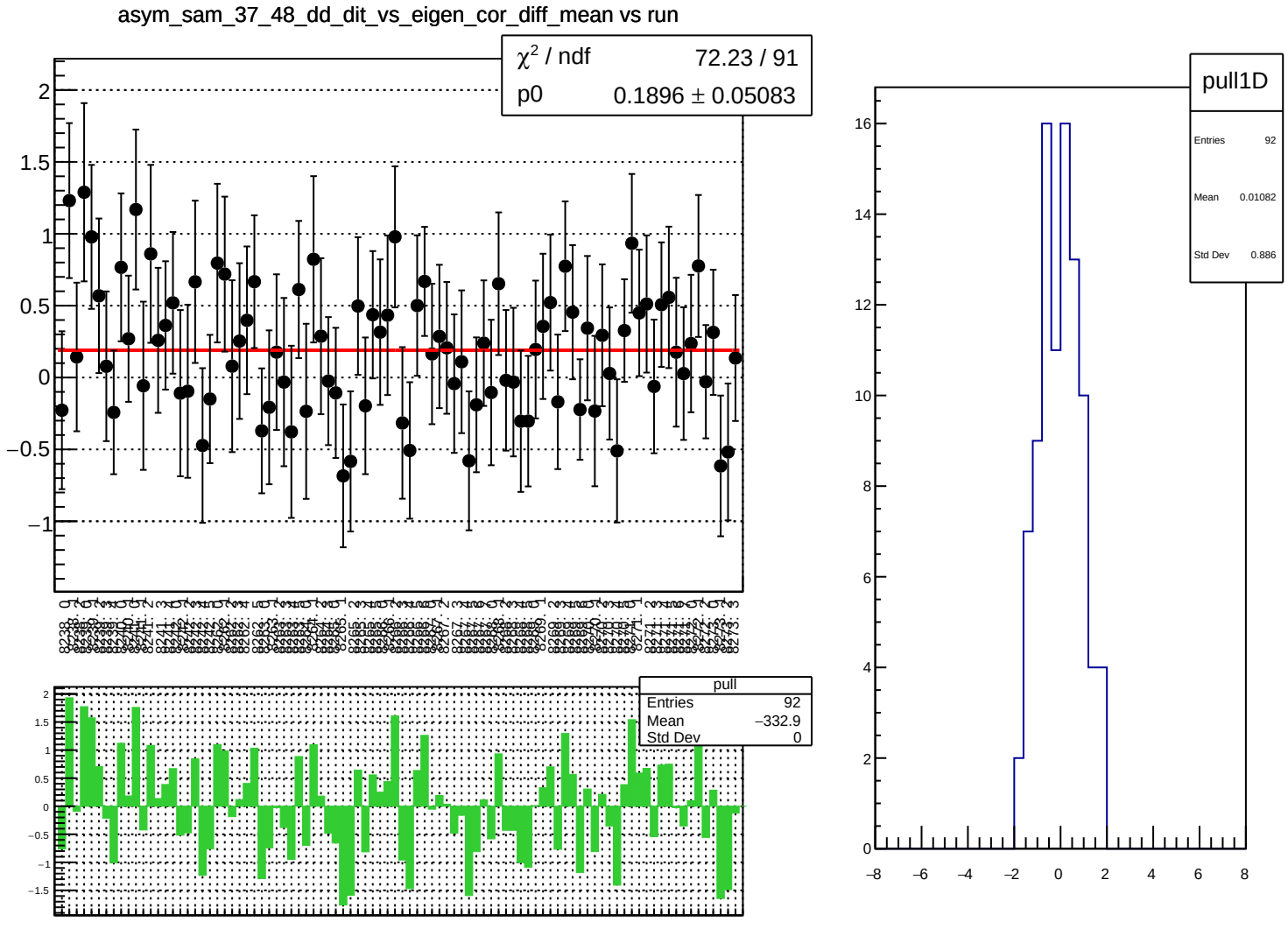

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.56 / 91
p0 −4.888e−14 ± 3.901e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 92
Mean 44.46
Std Dev 23.12
1
0
−1
−2
−3

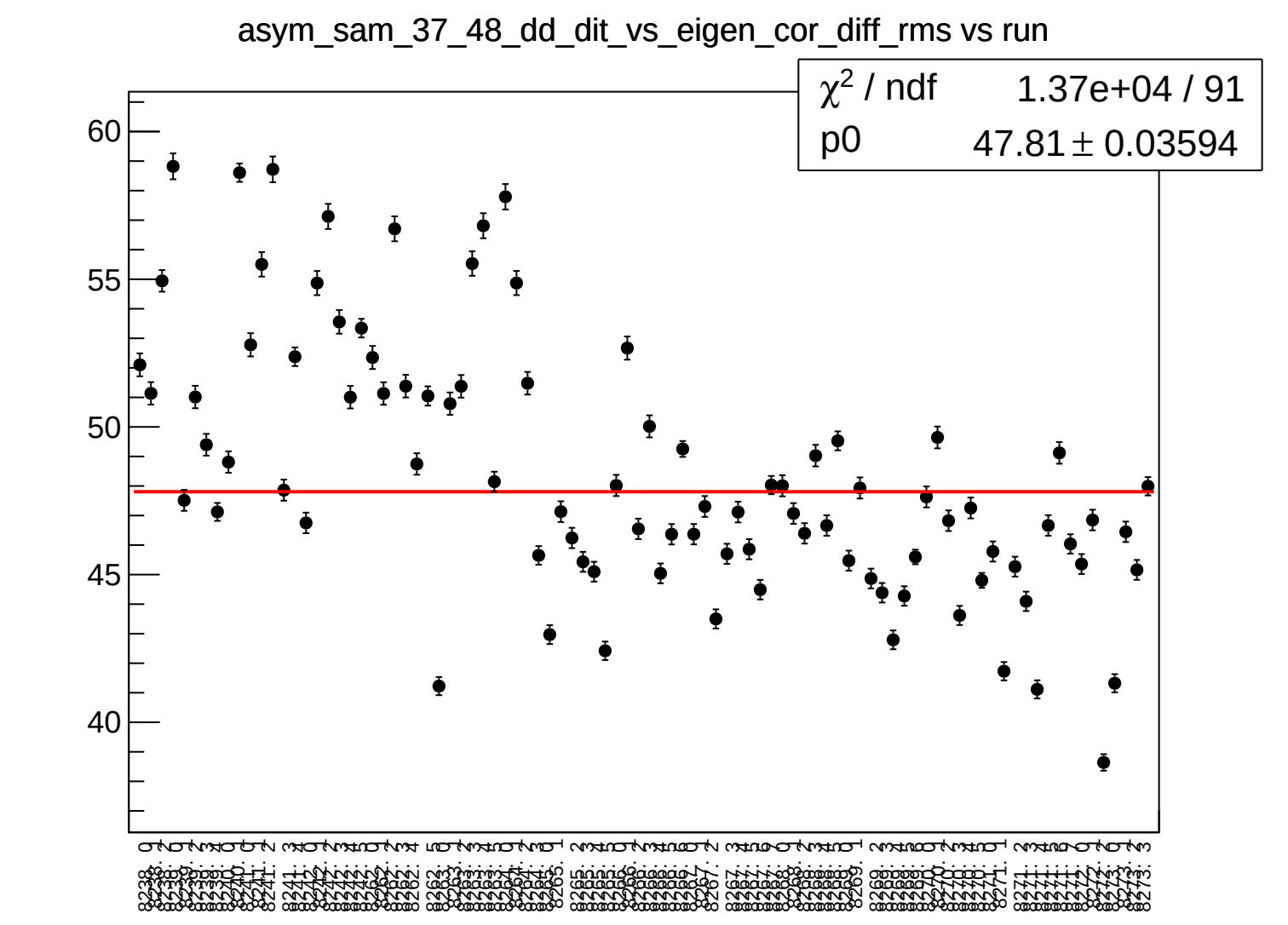

pull1D
Entries 92
Mean −0.08212
Std Dev 0.9887
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

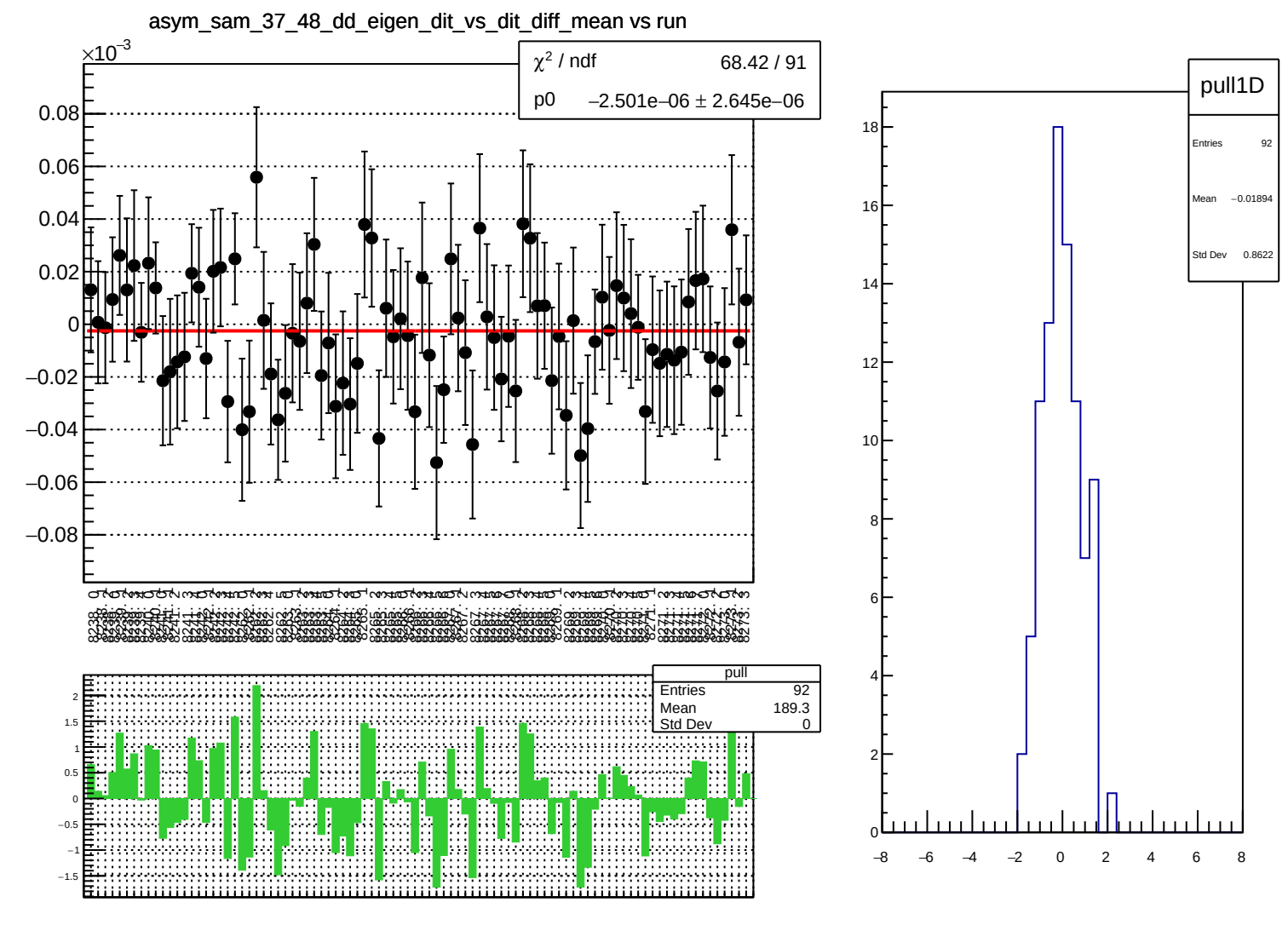

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.394e+05 / 91
p0 2.818e−11 ± 2.759e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

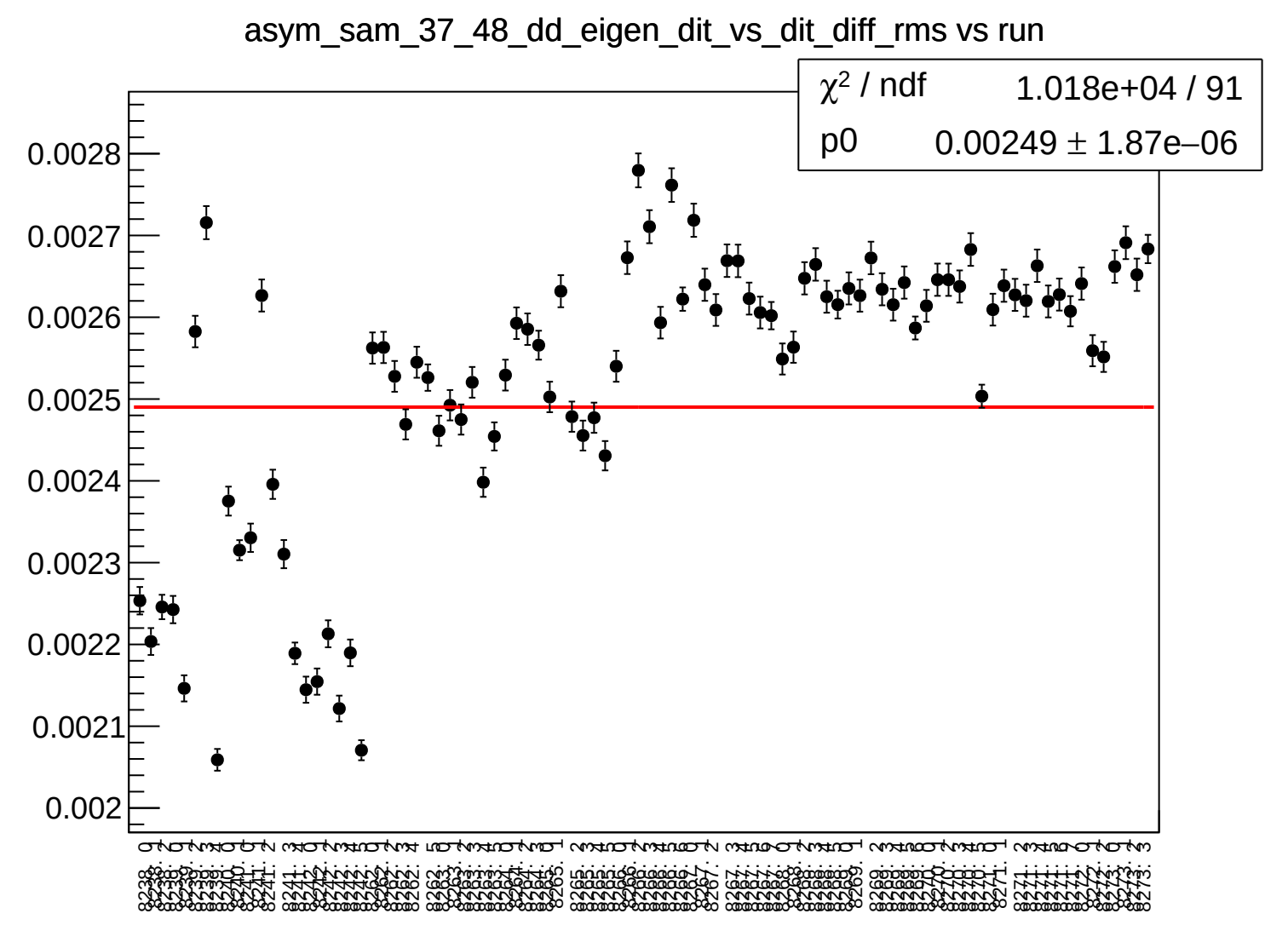

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.23 / 91
p0 0.1896 ± 0.05083
pull
Entries 92
Mean −332.9
Std Dev 0
pull1D
Entries 92
Mean 0.01082
Std Dev 0.886

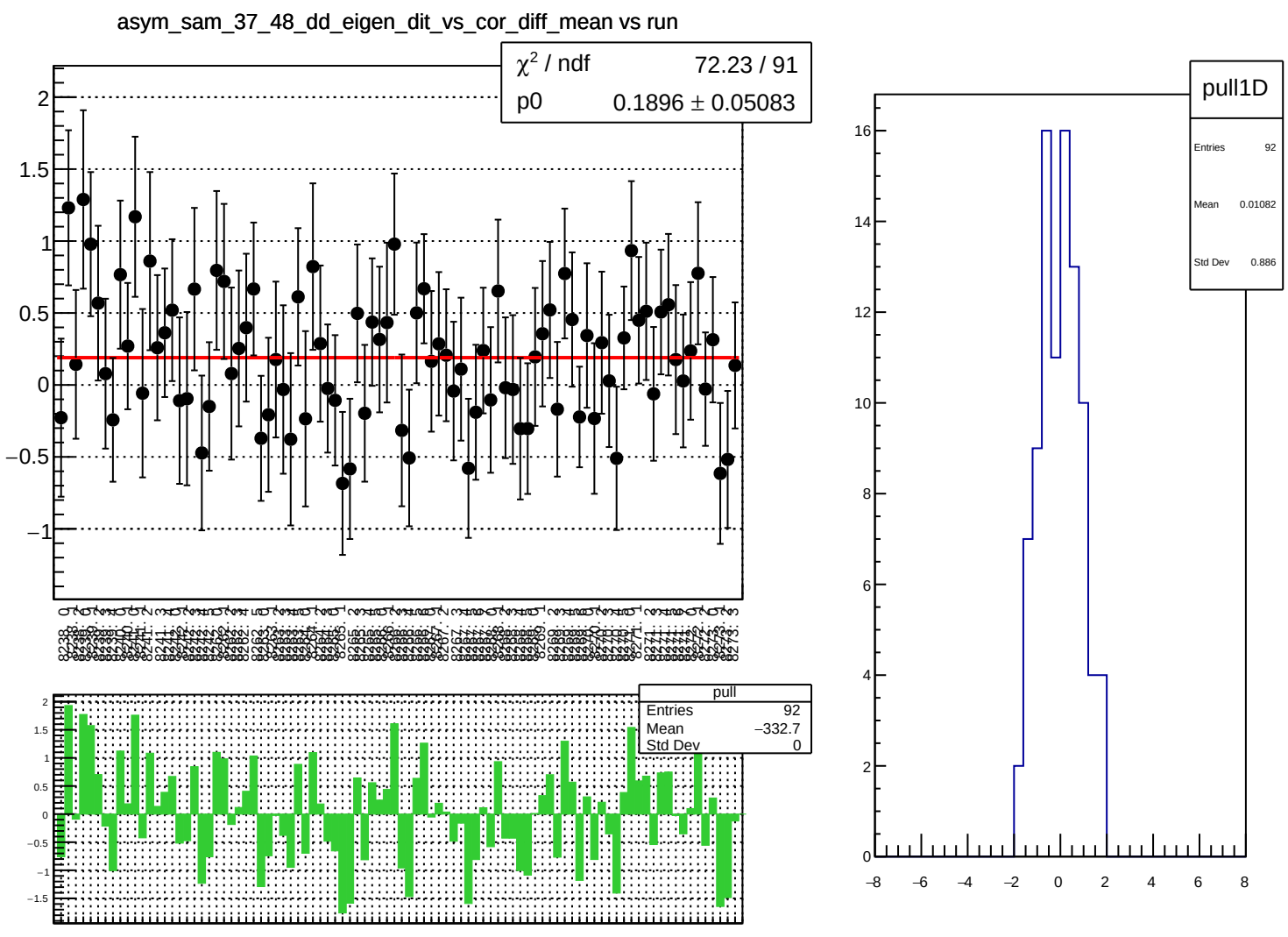

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.37e+04 / 91
p0 47.81 ± 0.03594
60
55
50
45
40

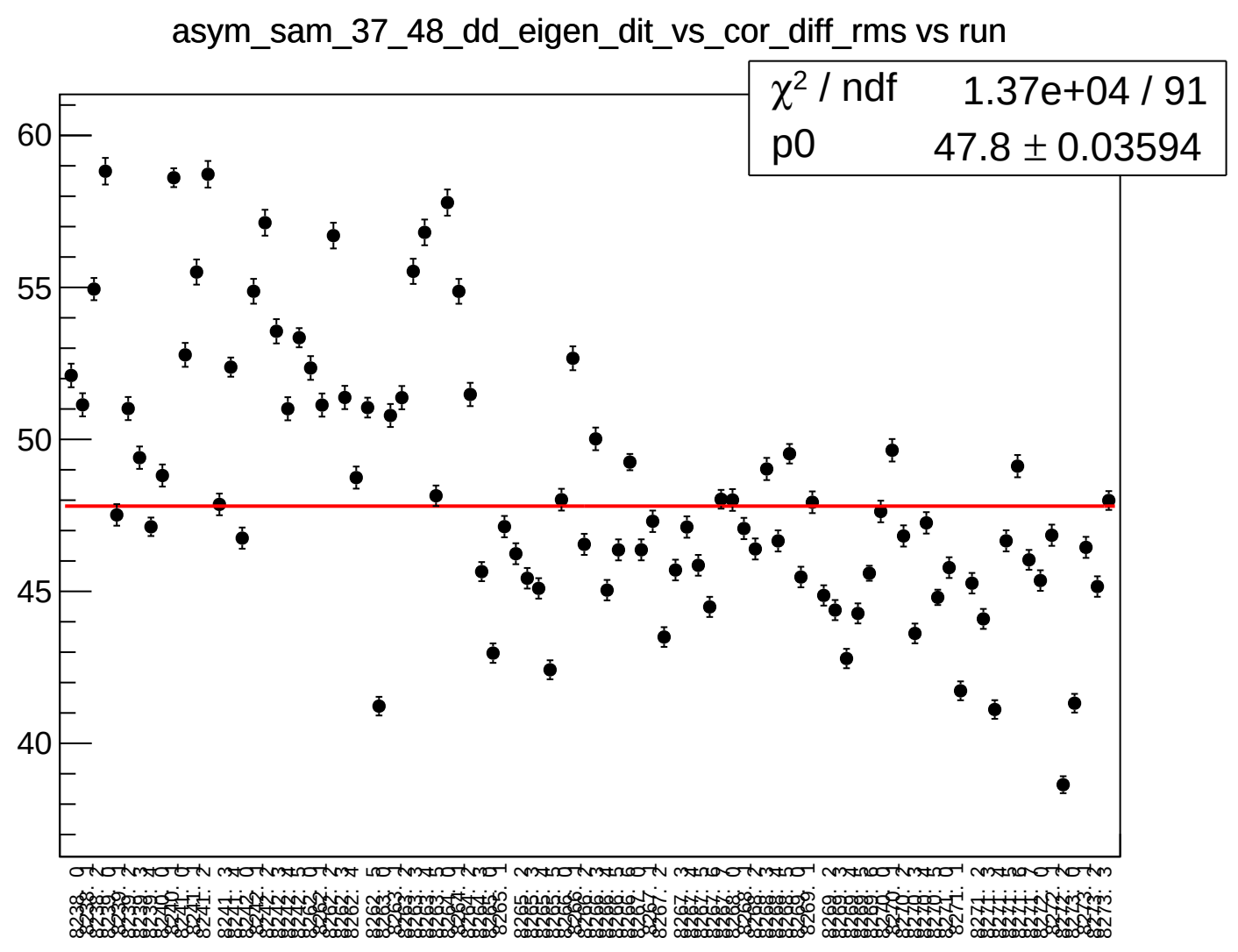

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.23 / 91
p0 0.1896 ± 0.05083
pull
Entries 92
Mean −332.9
Std Dev 0
pull1D
Entries 92
Mean 0.01082
Std Dev 0.886


asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.37e+04 / 91
p0 47.81 ± 0.03594
60
55
50
45
40

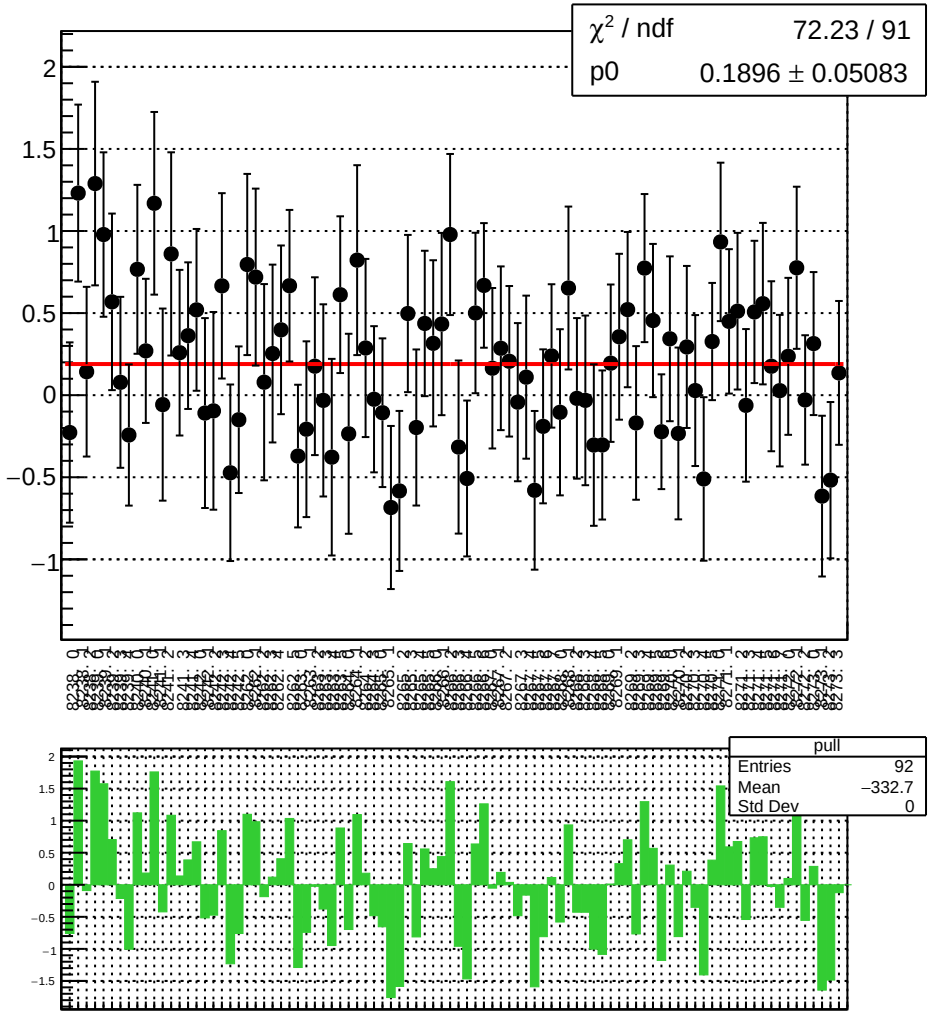

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 68.42 / 91
p0 −2.501e−06 ± 2.645e−06
pull
Entries 92
Mean 189.3
Std Dev 0
pull1D
Entries 92
Mean −0.01894
Std Dev 0.8622

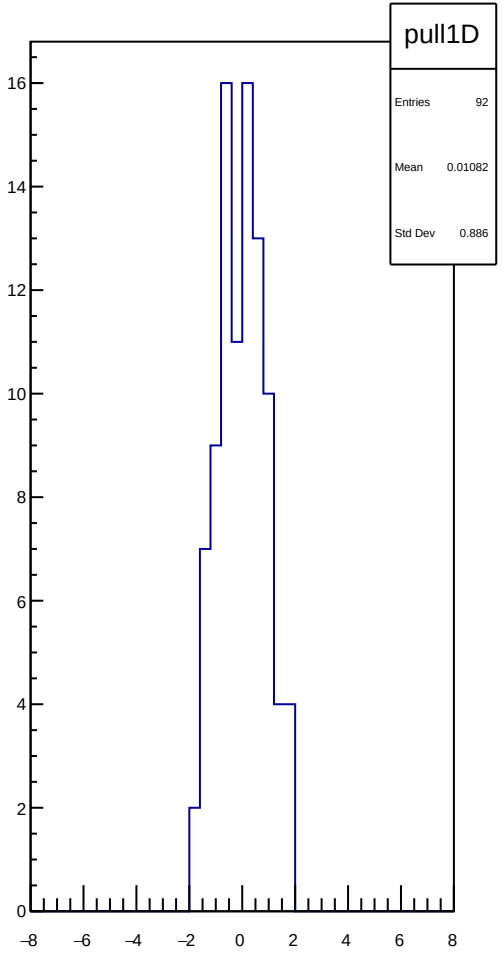

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.018e+04 / 91
p0 0.00249 ± 1.87e−06
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

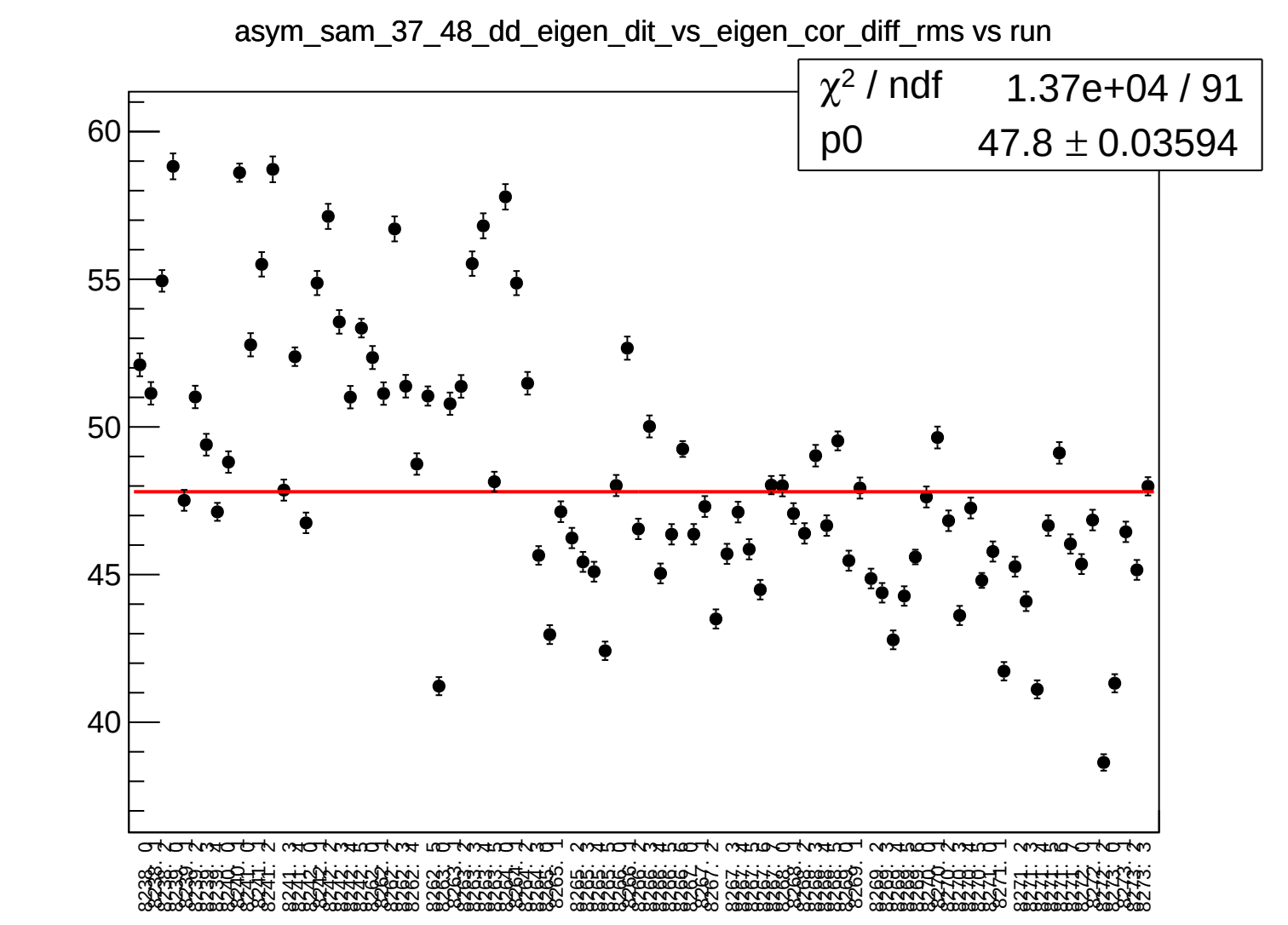

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.23 / 91
p0 0.1896 ± 0.05083
pull
Entries 92
Mean −332.7
Std Dev 0
pull1D
Entries 92
Mean 0.01082
Std Dev 0.886

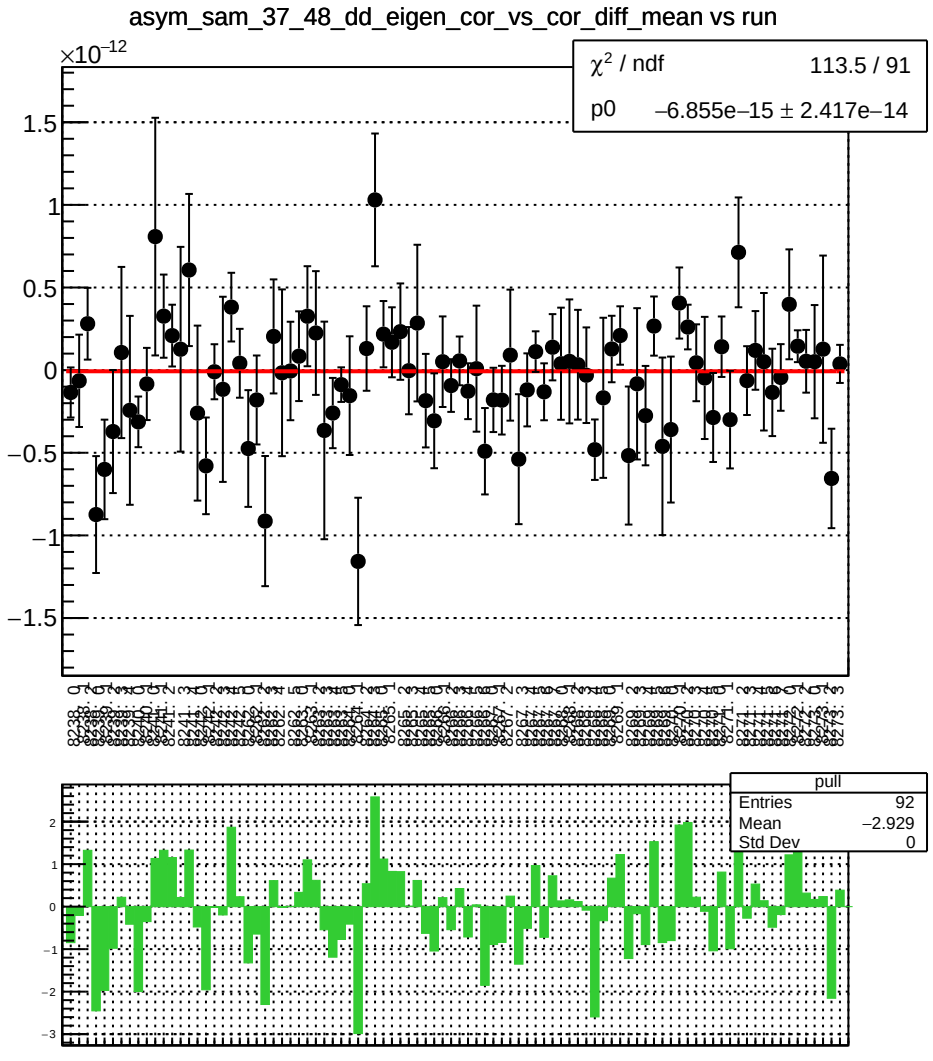

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.37e+04 / 91
p0 47.8 ± 0.03594
60
55
50
45
40

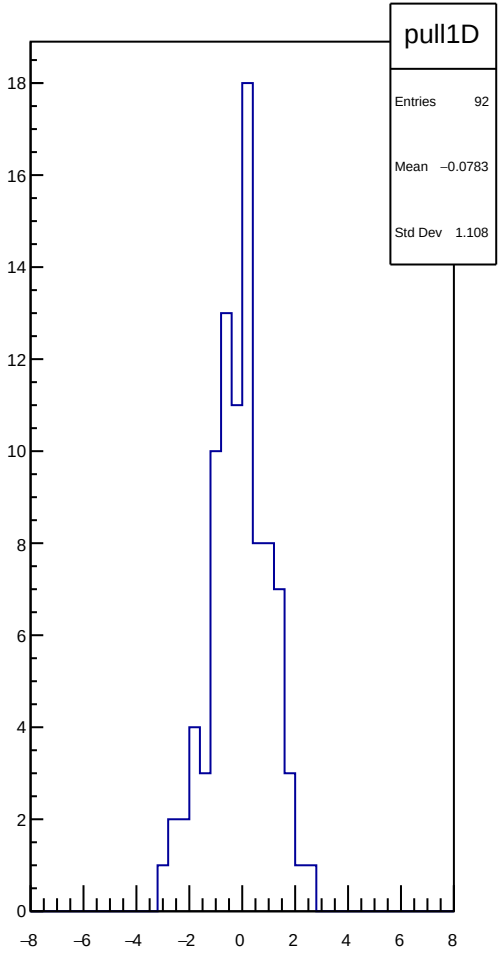
asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

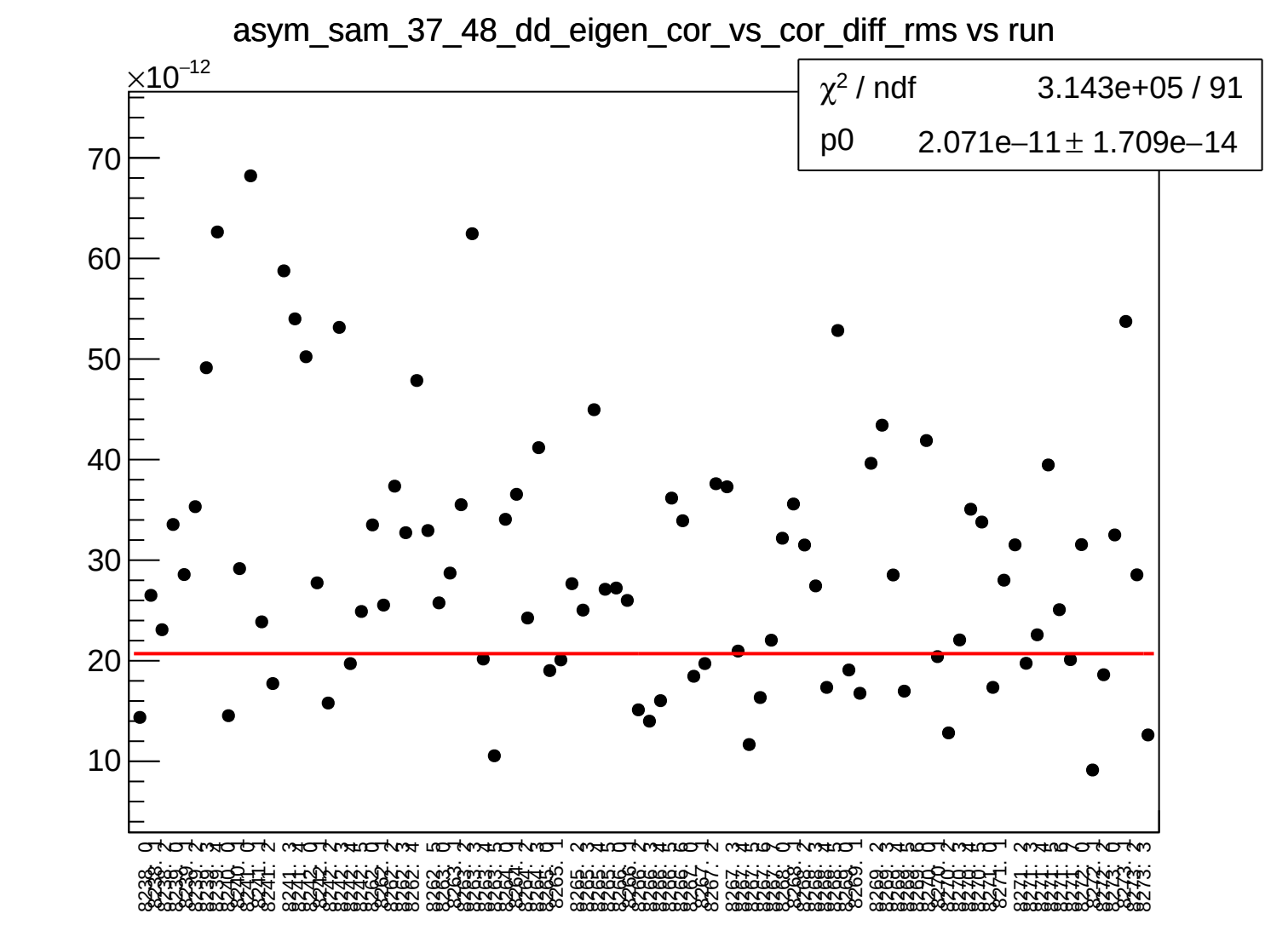


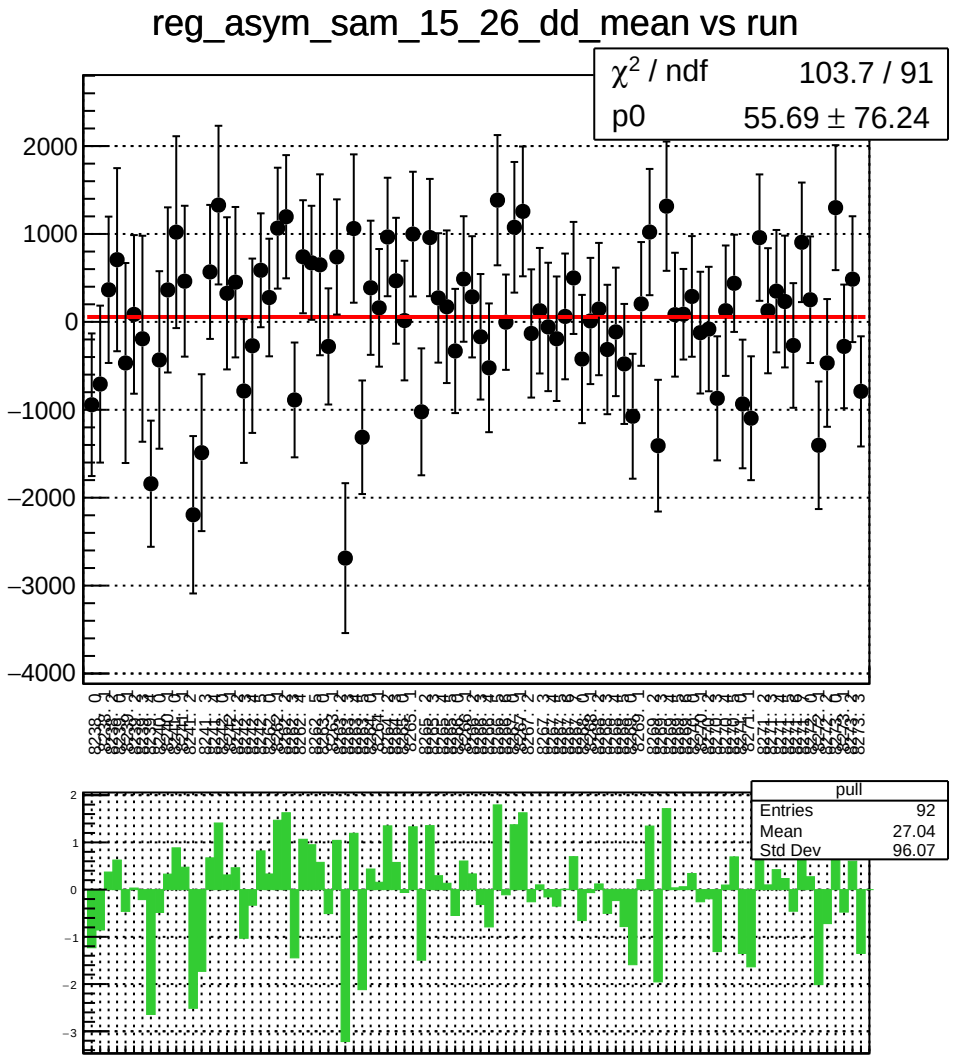



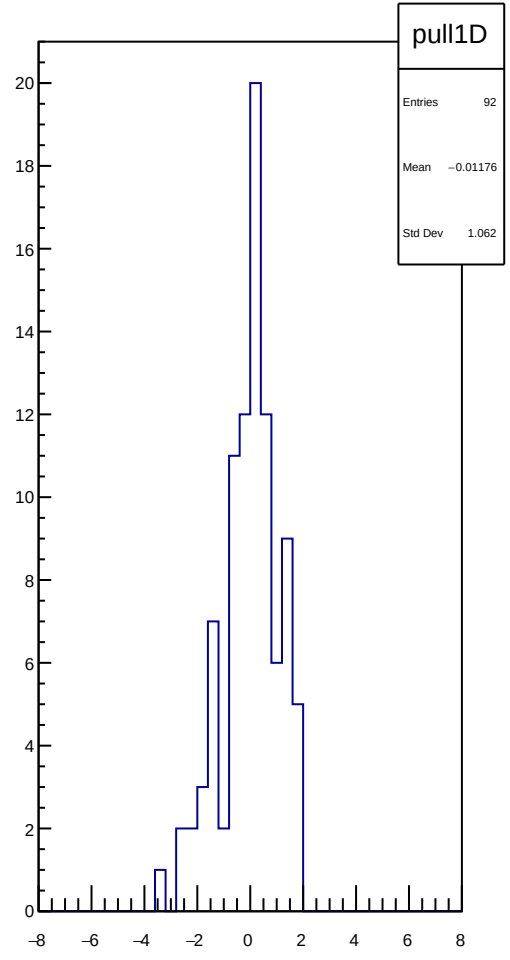

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.37e+04 / 91
p0 47.8 ± 0.03594
60
55
50
45
40

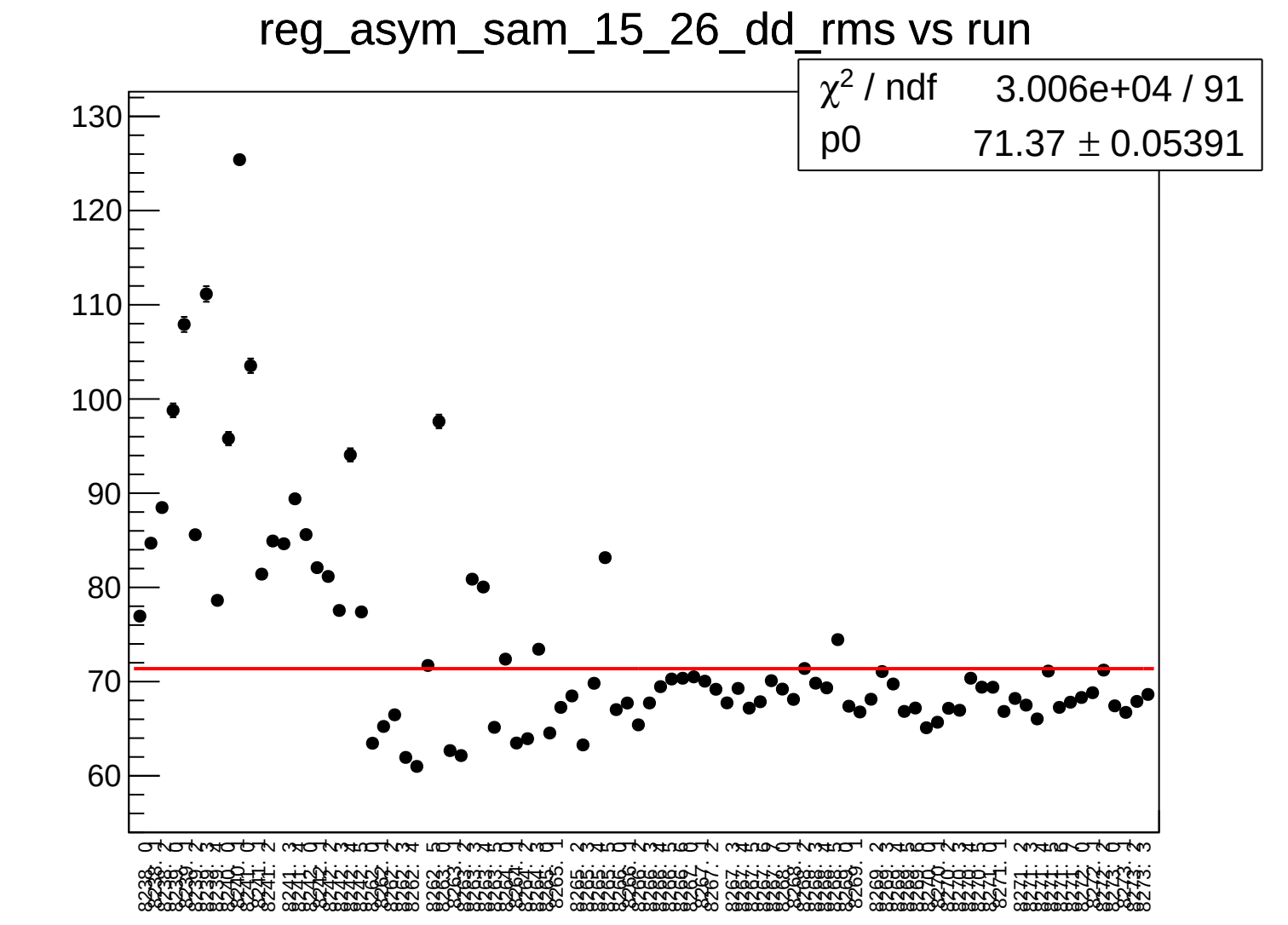

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113.5 / 91
p0 −6.855e−15 ± 2.417e−14
pull
Entries 92
Mean −2.929
Std Dev 0

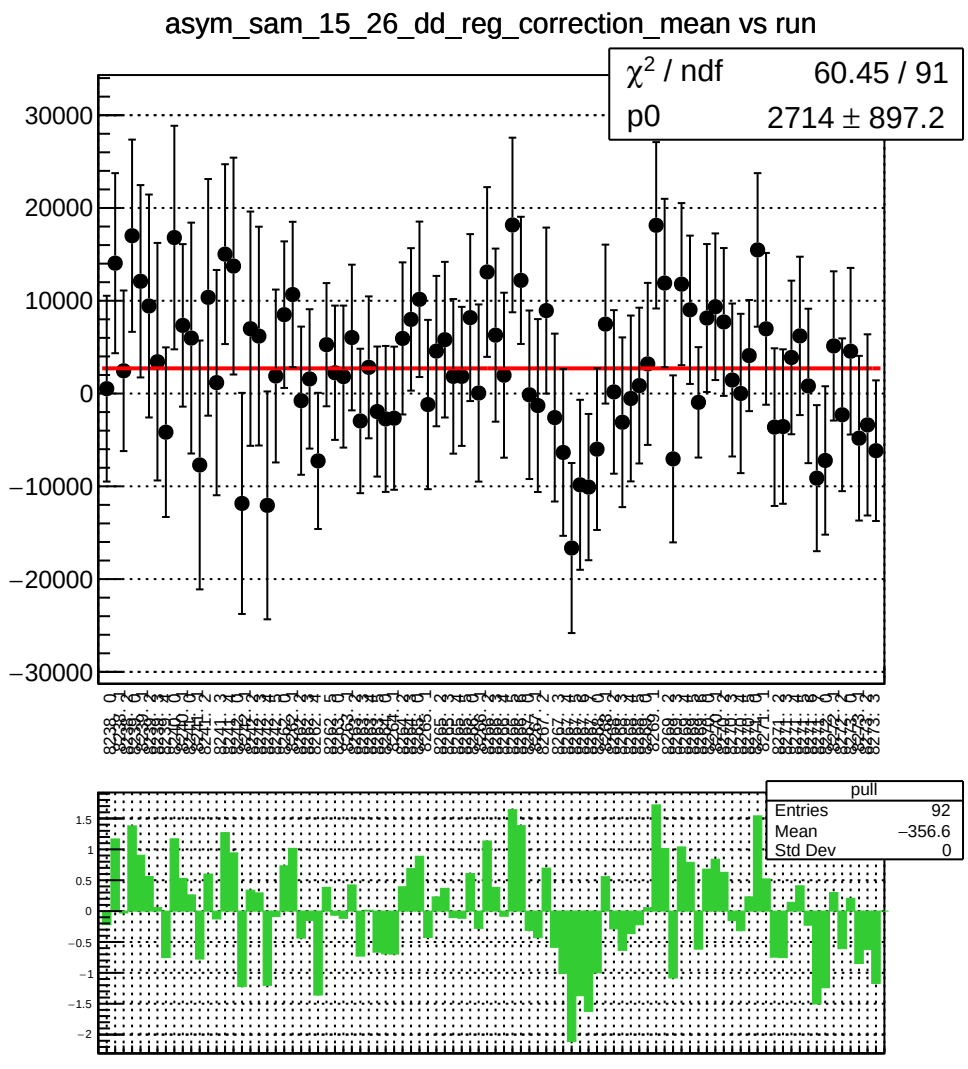

pull1D
Entries 92
Mean −0.0783
Std Dev 1.108

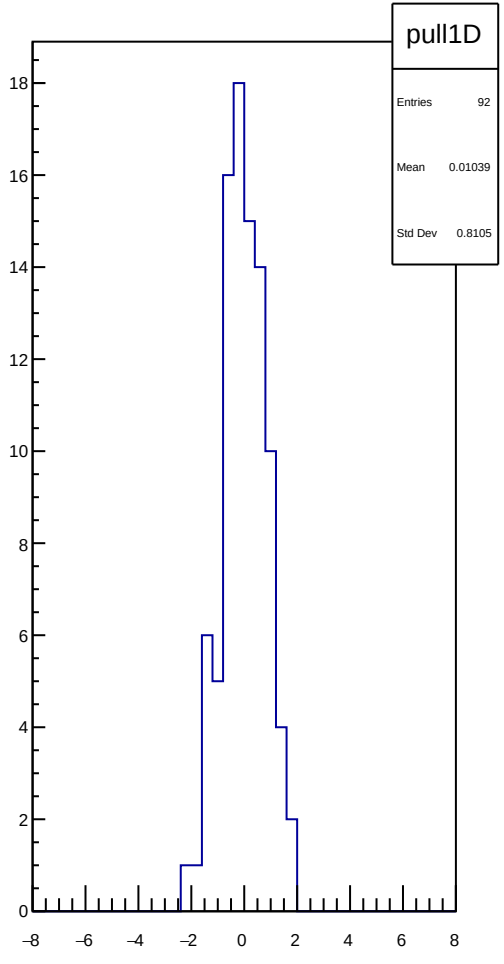

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.143e+05 / 91
p0 2.071e−11 ± 1.709e−14
70
60
50
40
30
20
10

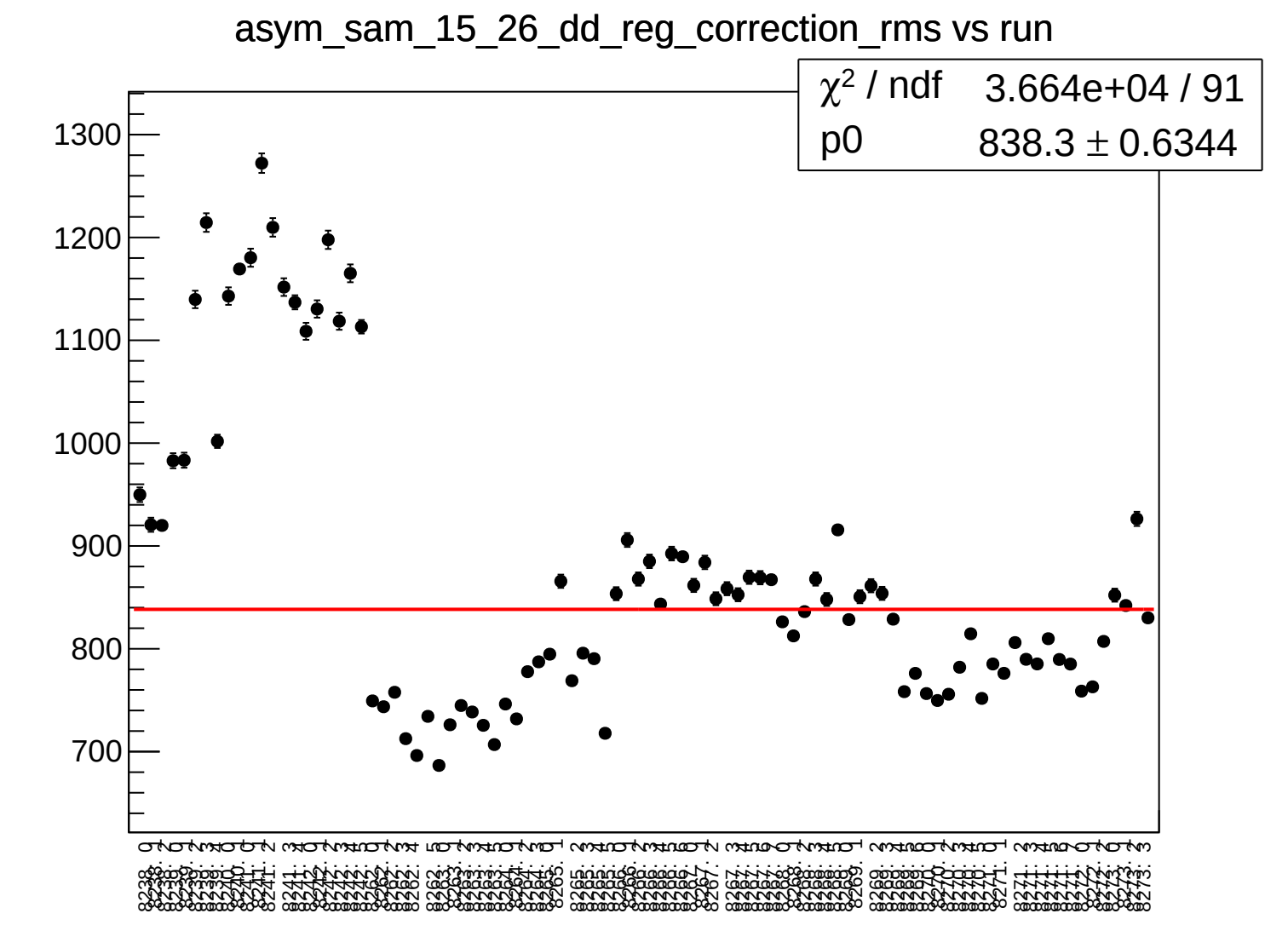

reg_asym_sam_15_26_dd_mean vs run
$\chi^2$ / ndf 103.7 / 91
p0 55.69 ± 76.24
pull
Entries 92
Mean 27.04
Std Dev 96.07

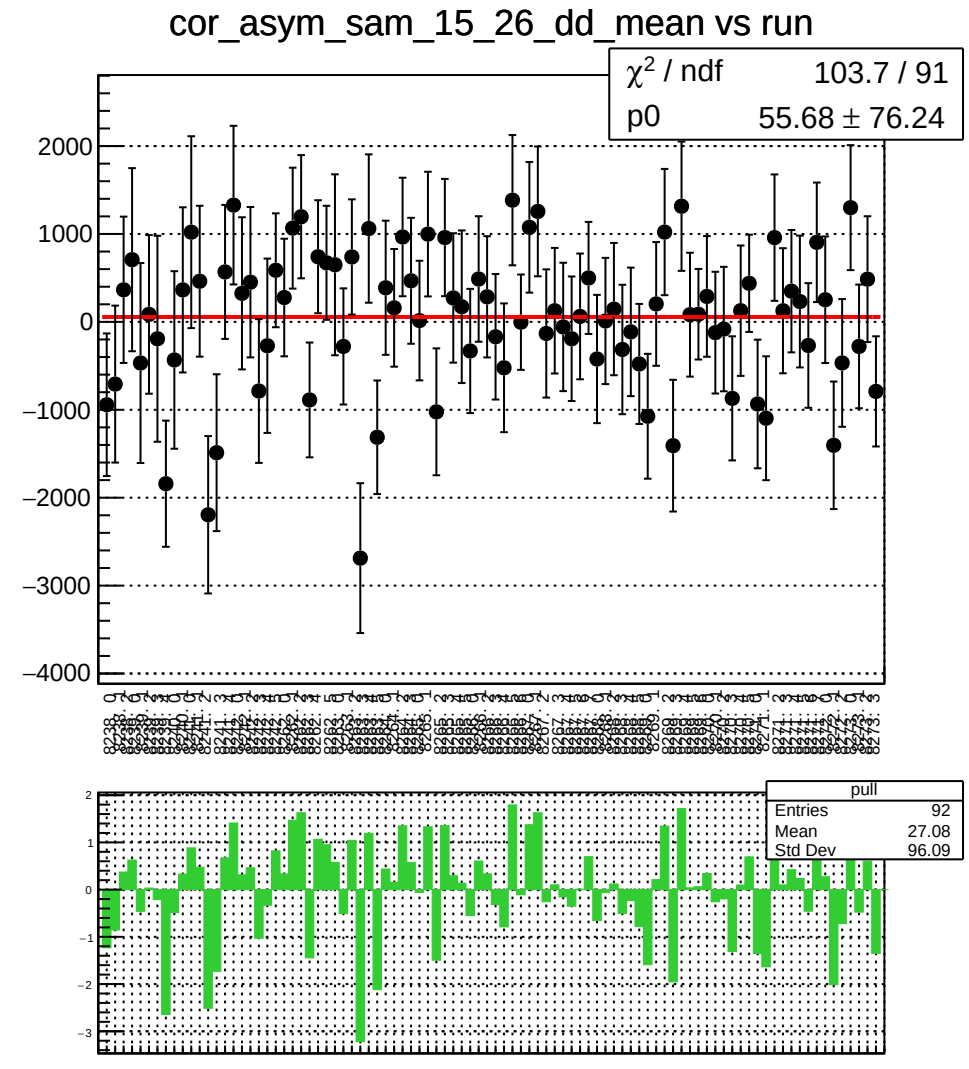

pull1D
Entries 92
Mean −0.01176
Std Dev 1.062

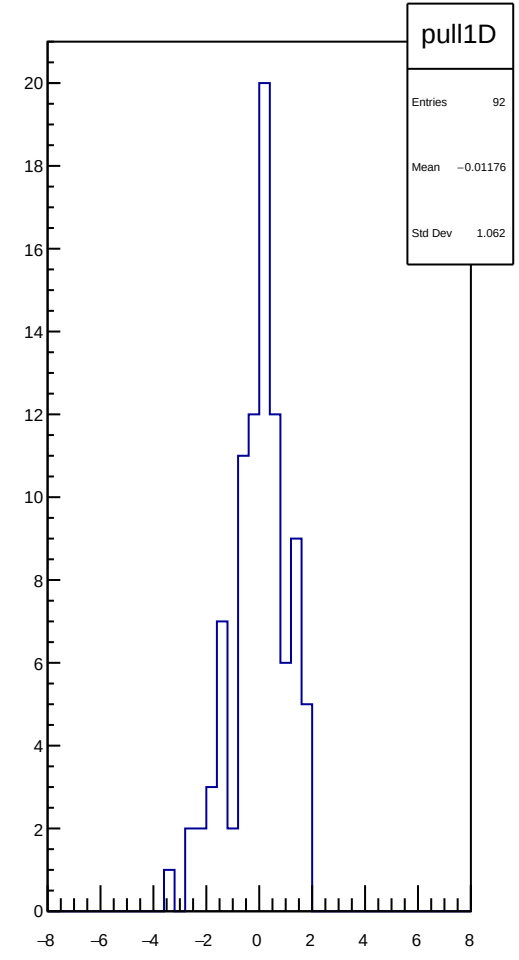

reg_asym_sam_15_26_dd_rms vs run
$\chi^2$ / ndf 3.006e+04 / 91
p0 71.37 ± 0.05391
130
120
110
100
90
80
70
60

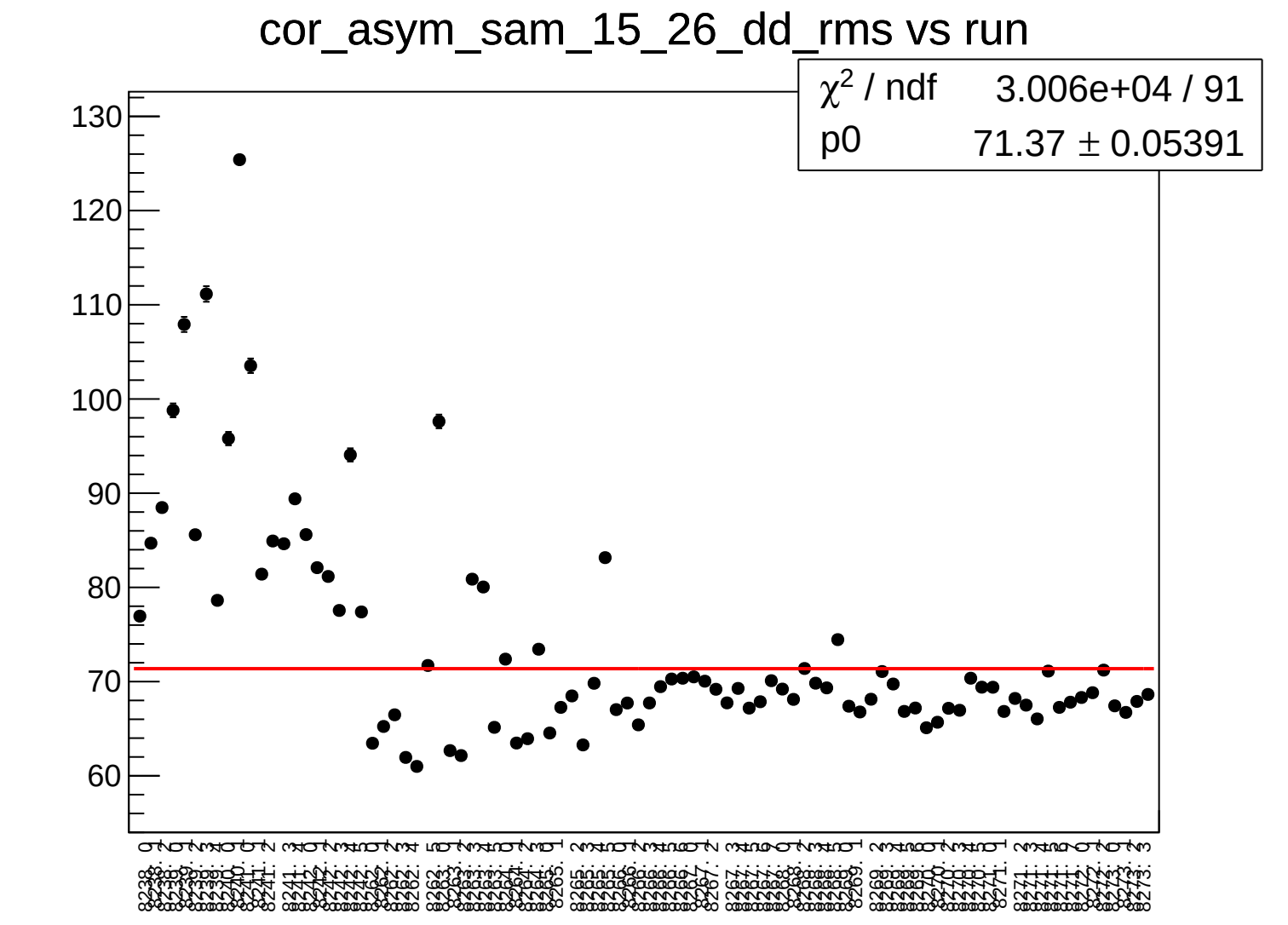

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 60.45 / 91
p0 2714 ± 897.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −356.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

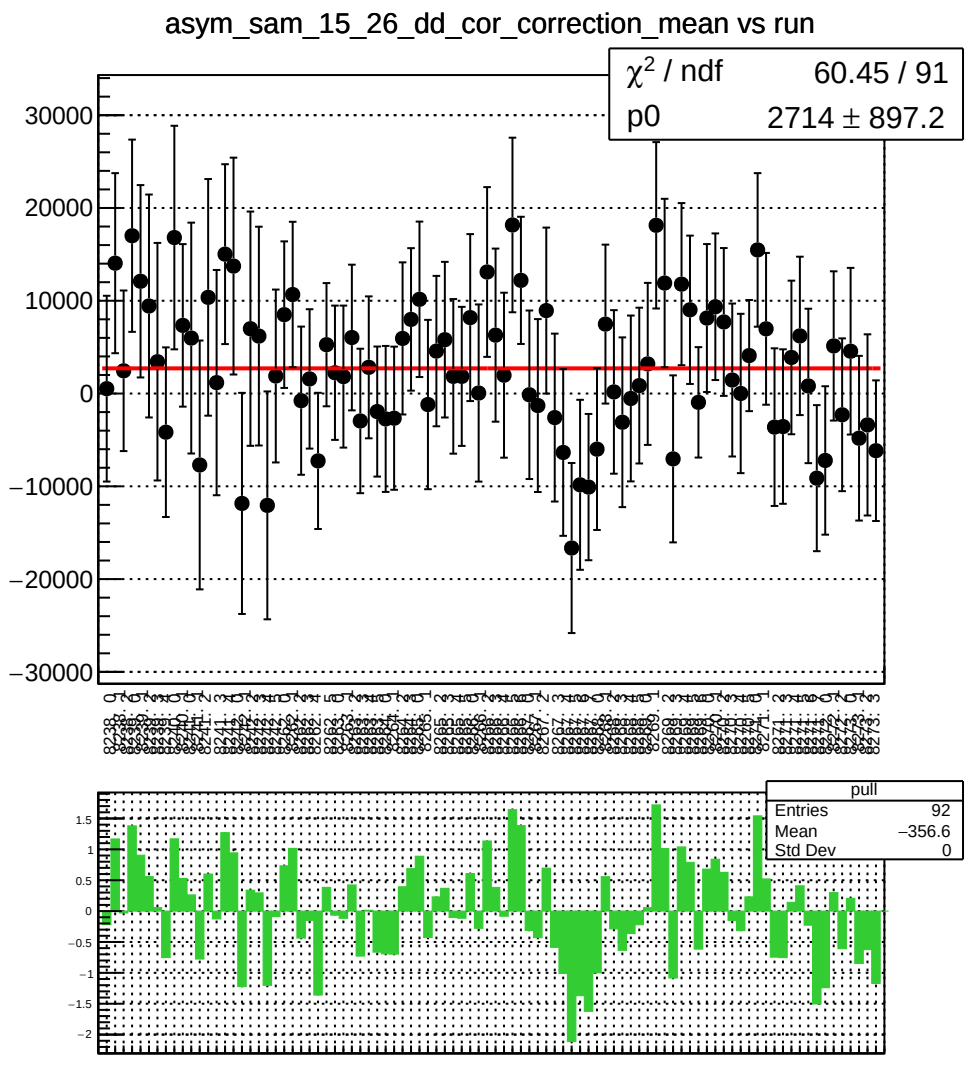

pull1D
Entries 92
Mean 0.01039
Std Dev 0.8105
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

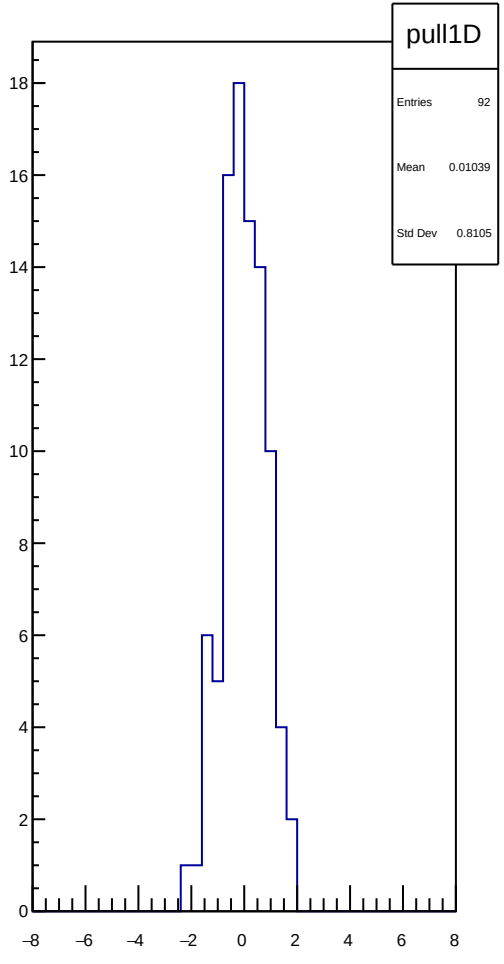

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 3.664e+04 / 91
p0 838.3 ± 0.6344
1300
1200
1100
1000
900
800
700

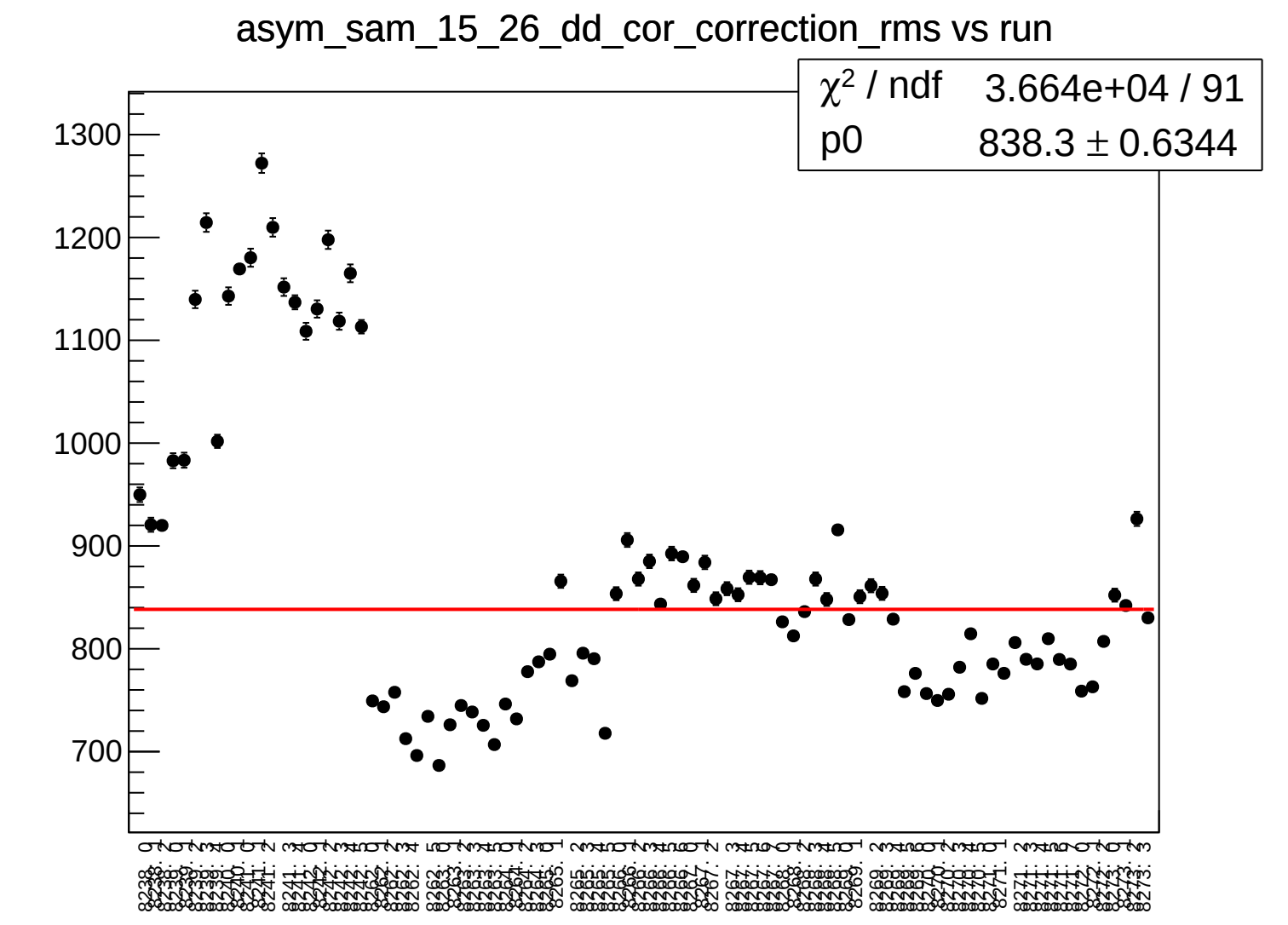

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 103.7 / 91
p0 55.68 ± 76.24
pull
Entries 92
Mean 27.08
Std Dev 96.09

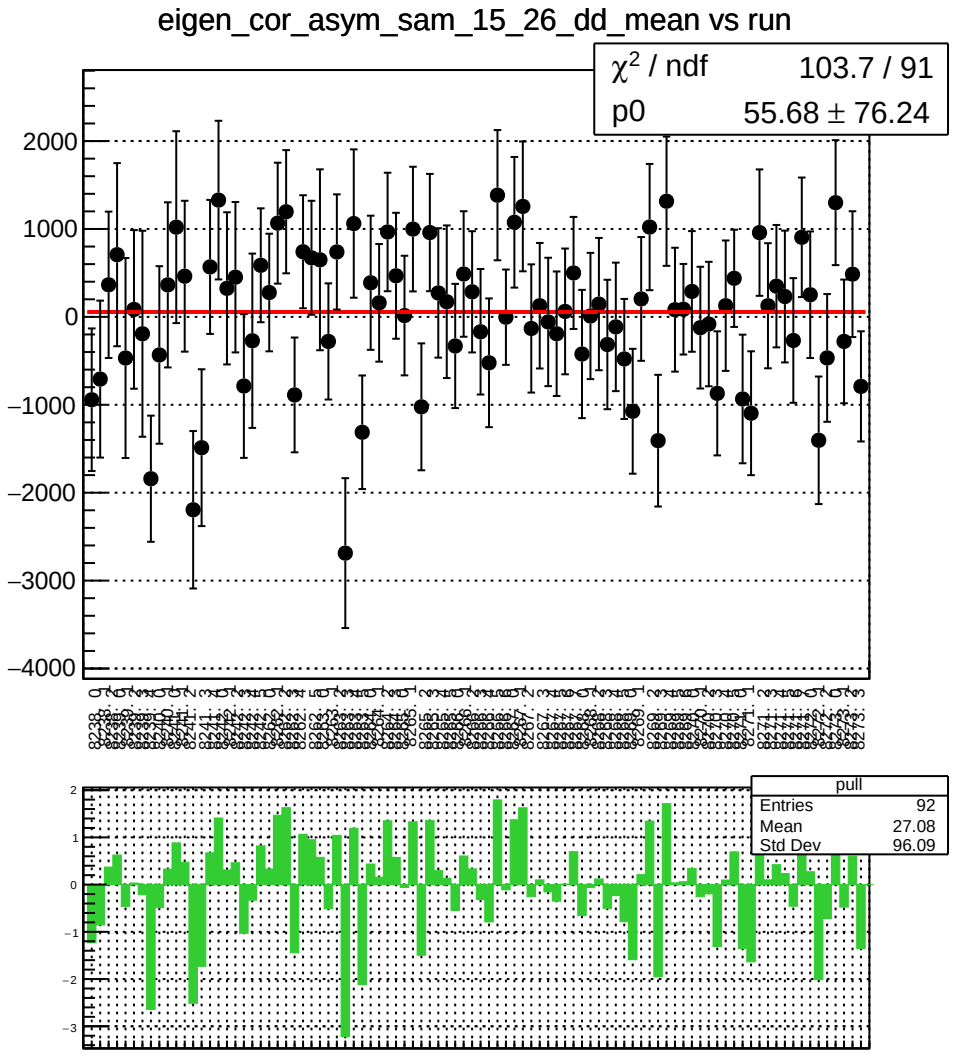

pull1D
Entries 92
Mean −0.01176
Std Dev 1.062

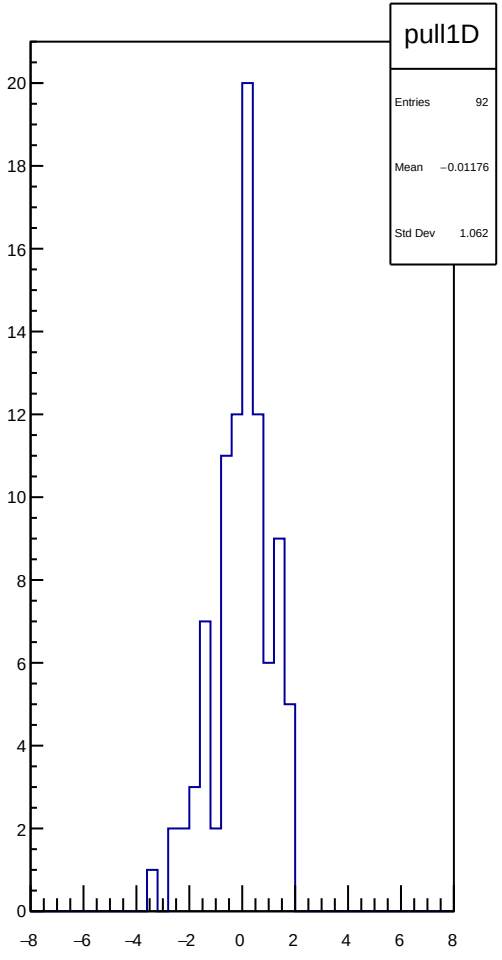

cor_asym_sam_15_26_dd_rms vs run
$\chi^2$ / ndf 3.006e+04 / 91
p0 71.37 ± 0.05391
130
120
110
100
90
80
70
60

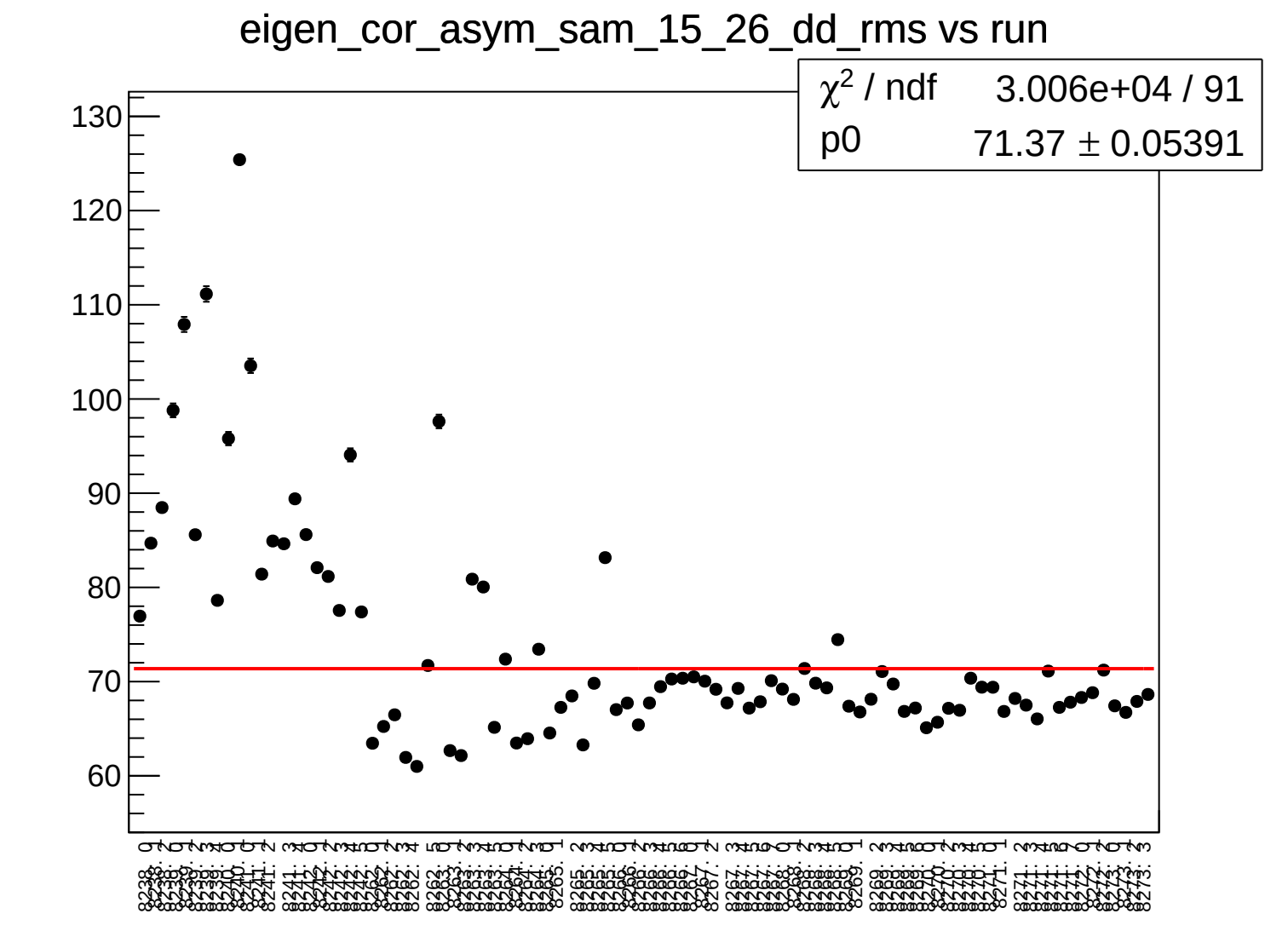

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 60.45 / 91
p0 2714 ± 897.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −356.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

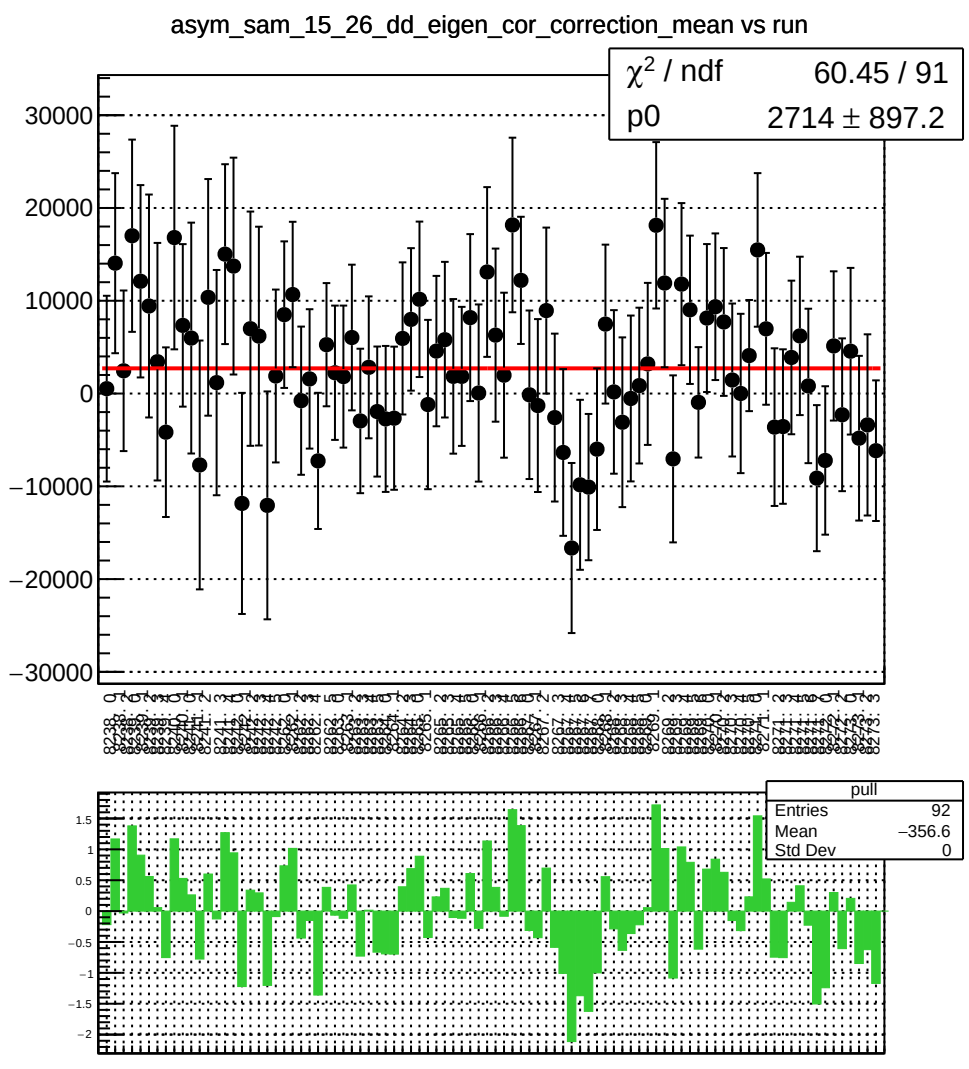

pull1D
Entries 92
Mean 0.01039
Std Dev 0.8105
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

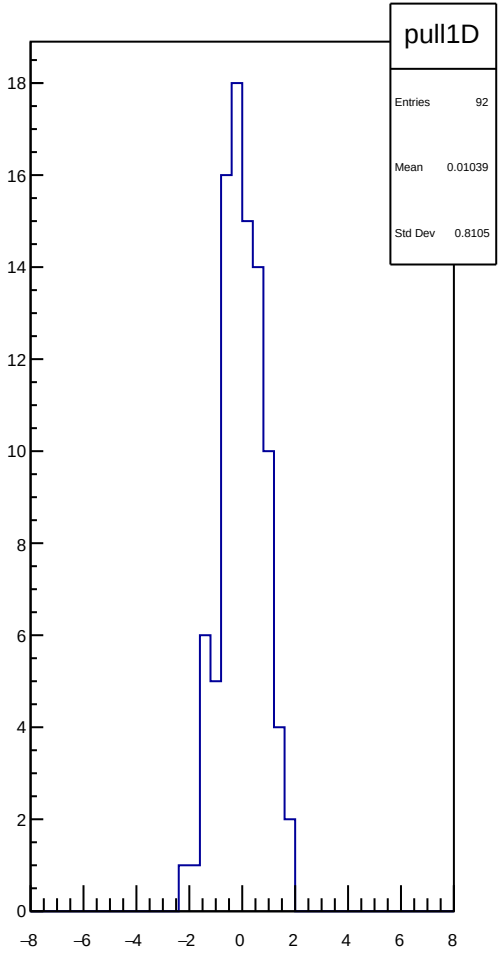

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 3.664e+04 / 91
p0 838.3 ± 0.6344
1300
1200
1100
1000
900
800
700

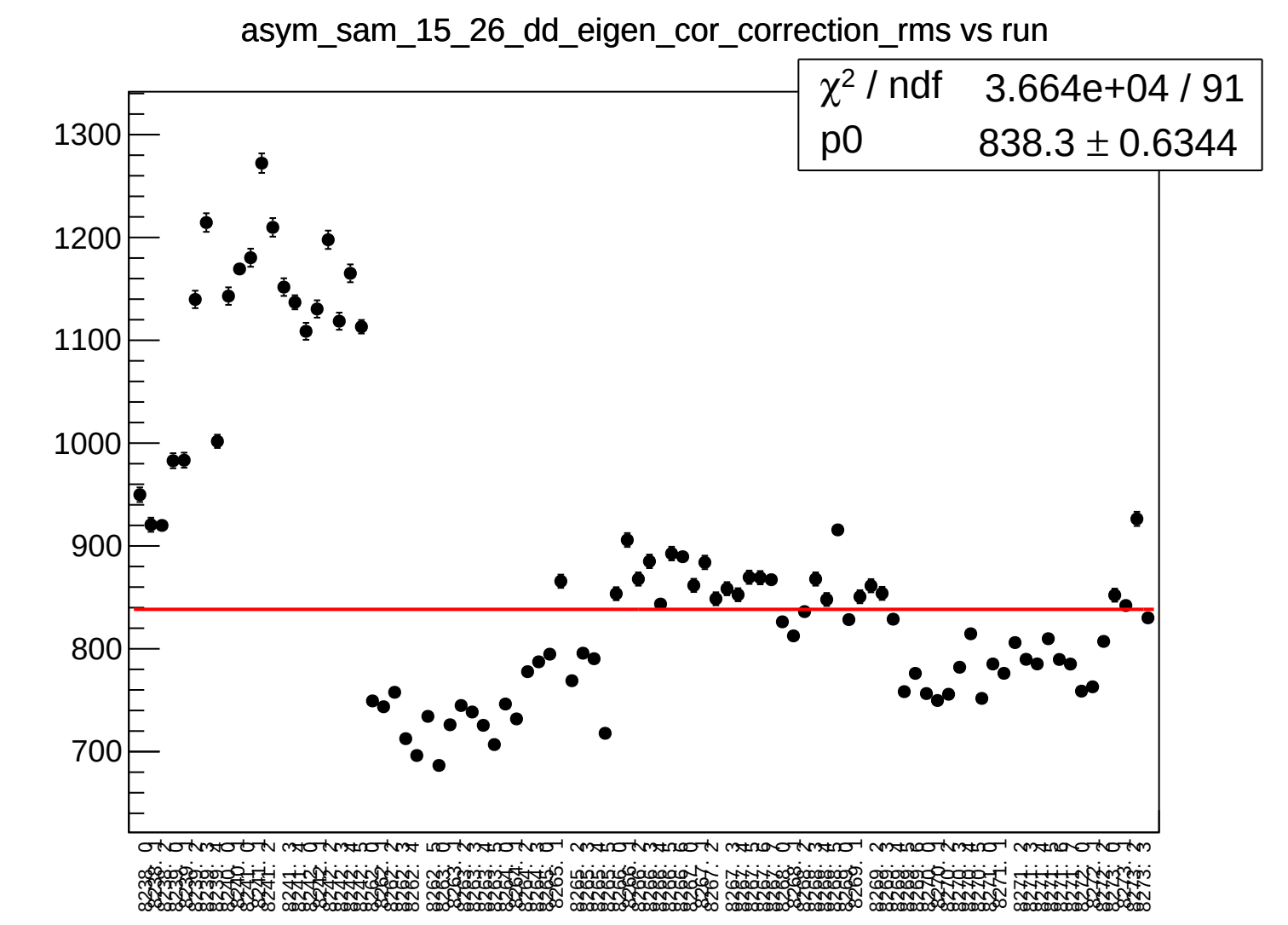

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 103.7 / 91
p0 55.68 ± 76.24
pull
Entries 92
Mean 27.08
Std Dev 96.09

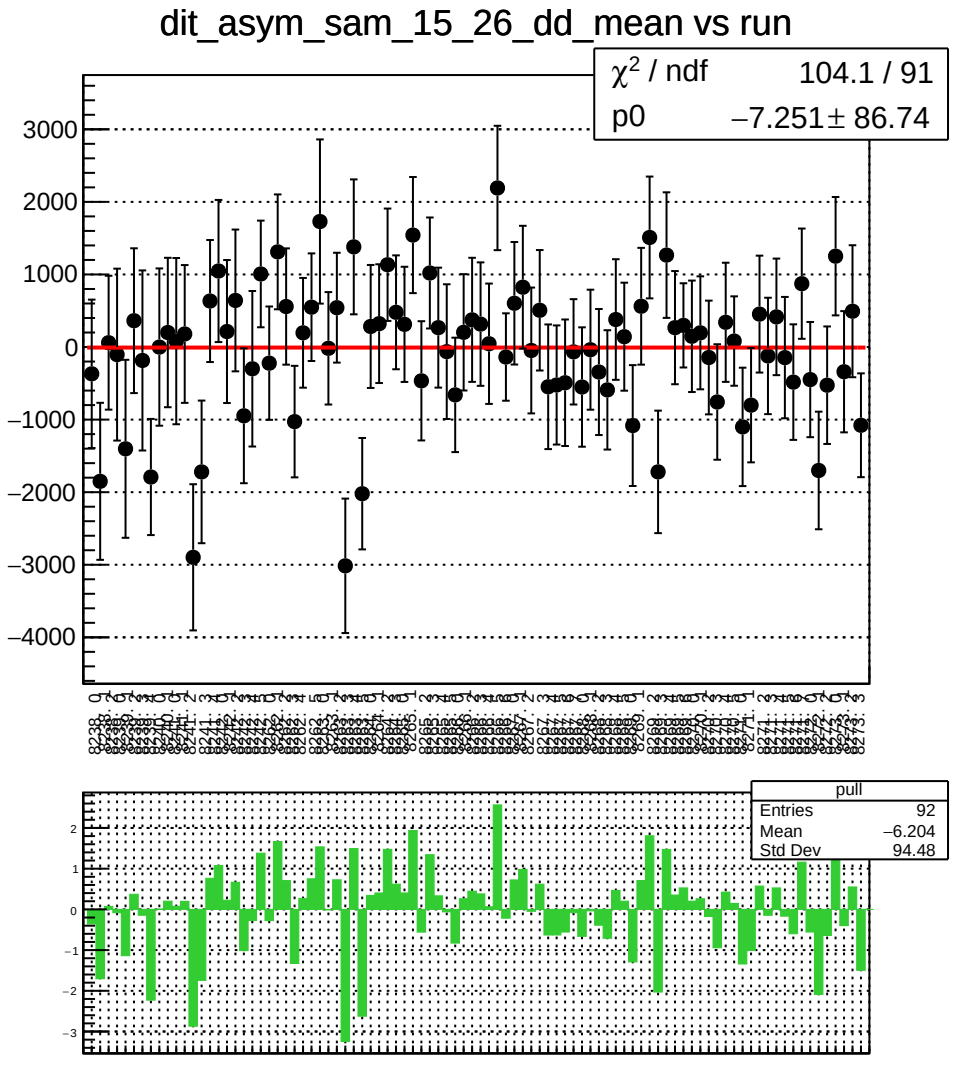

pull1D
Entries 92
Mean −0.01176
Std Dev 1.062

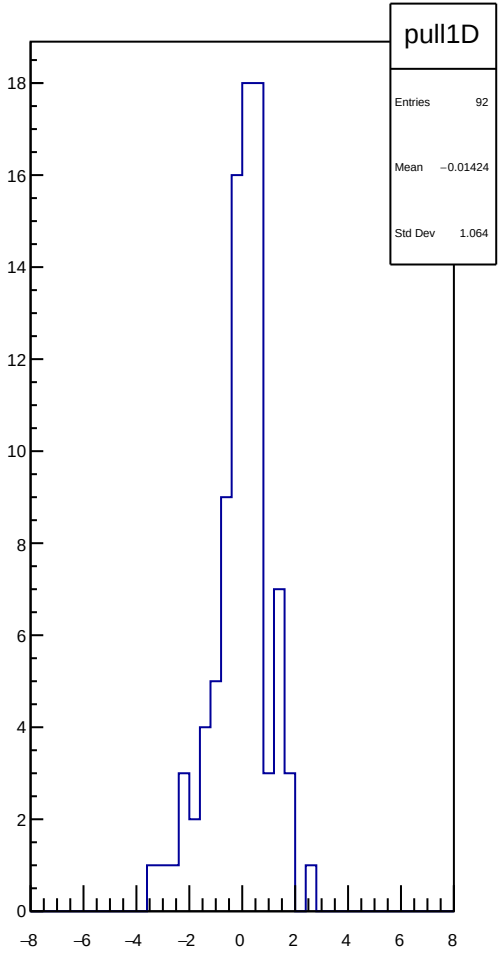

eigen_cor_asym_sam_15_26_dd_rms vs run
$\chi^2$ / ndf 3.006e+04 / 91
p0 71.37 ± 0.05391
130
120
110
100
90
80
70
60

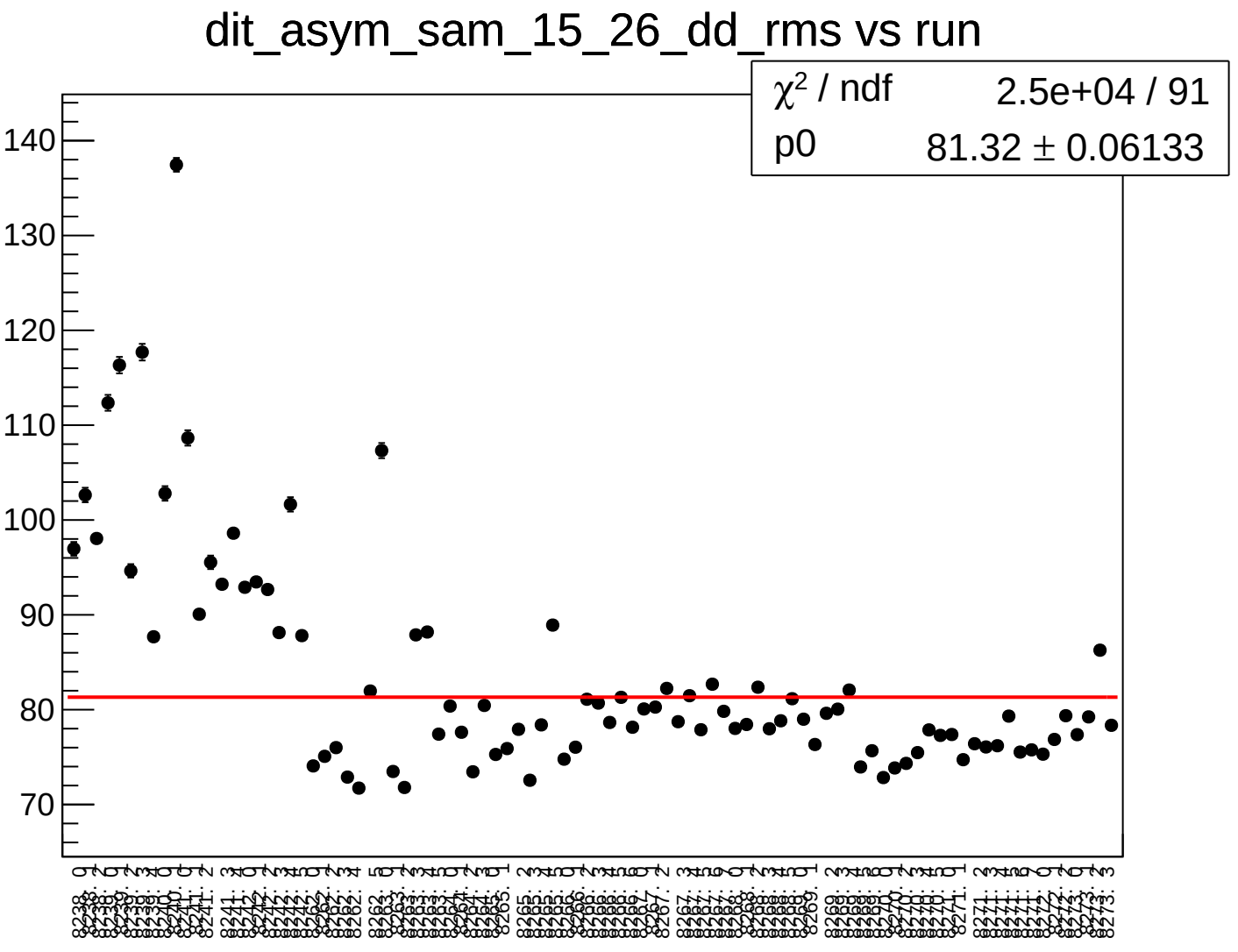

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 60.45 / 91
p0 2714 ± 897.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −356.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

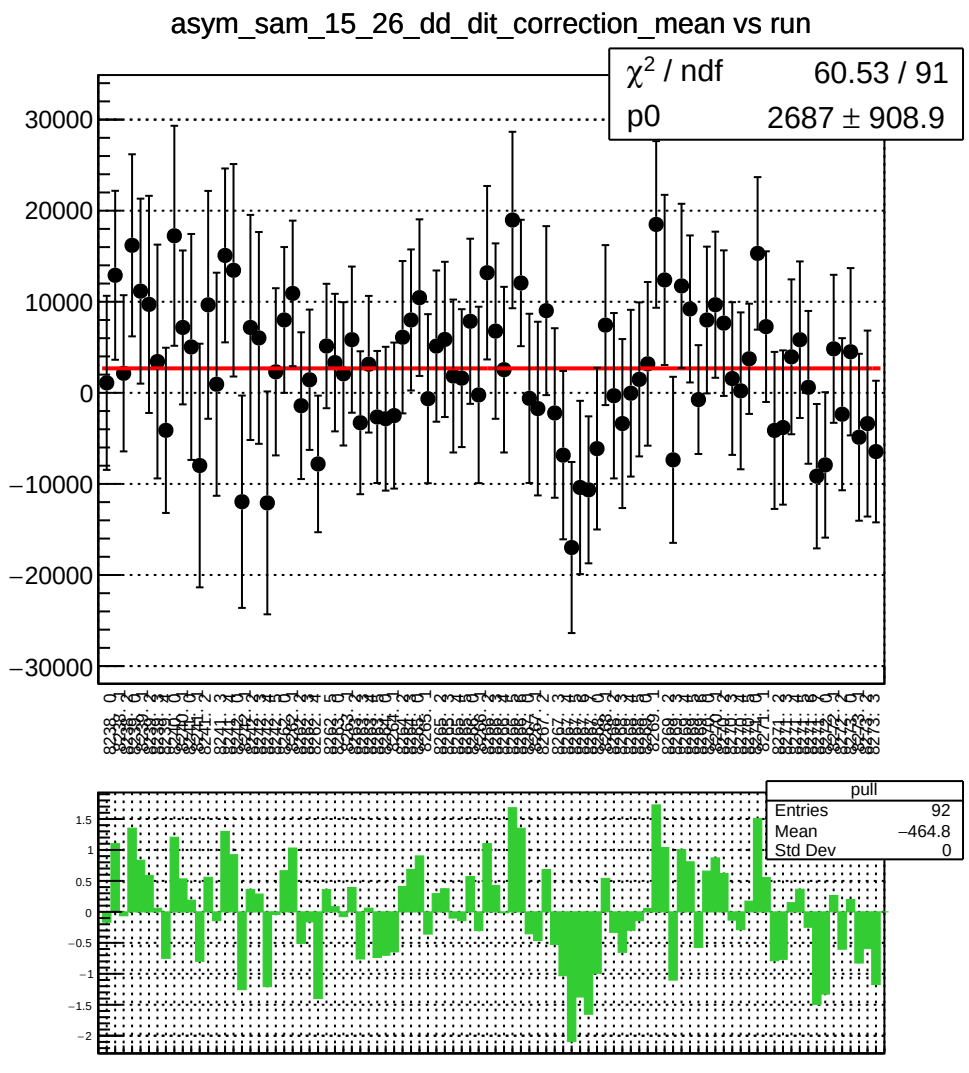

pull1D
Entries 92
Mean 0.01039
Std Dev 0.8105
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

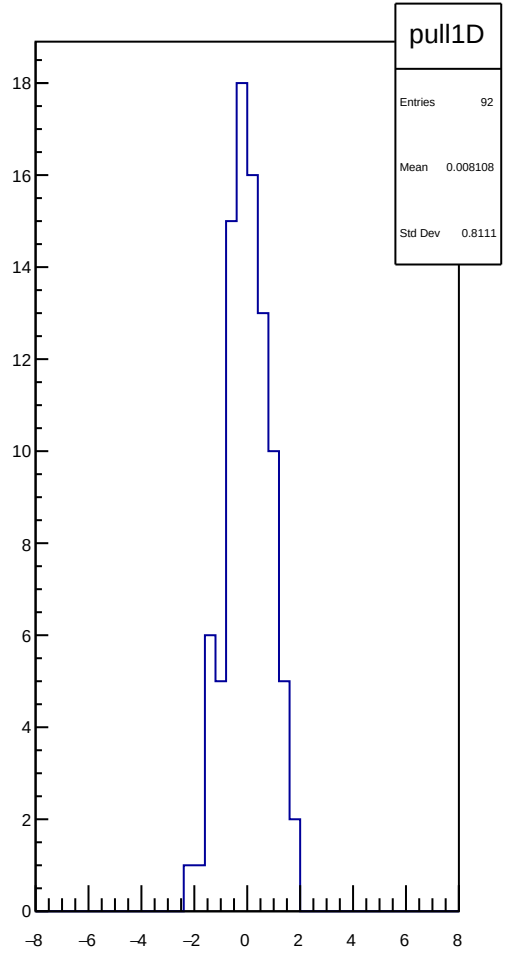

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.664e+04 / 91
p0 838.3 ± 0.6344
1300
1200
1100
1000
900
800
700

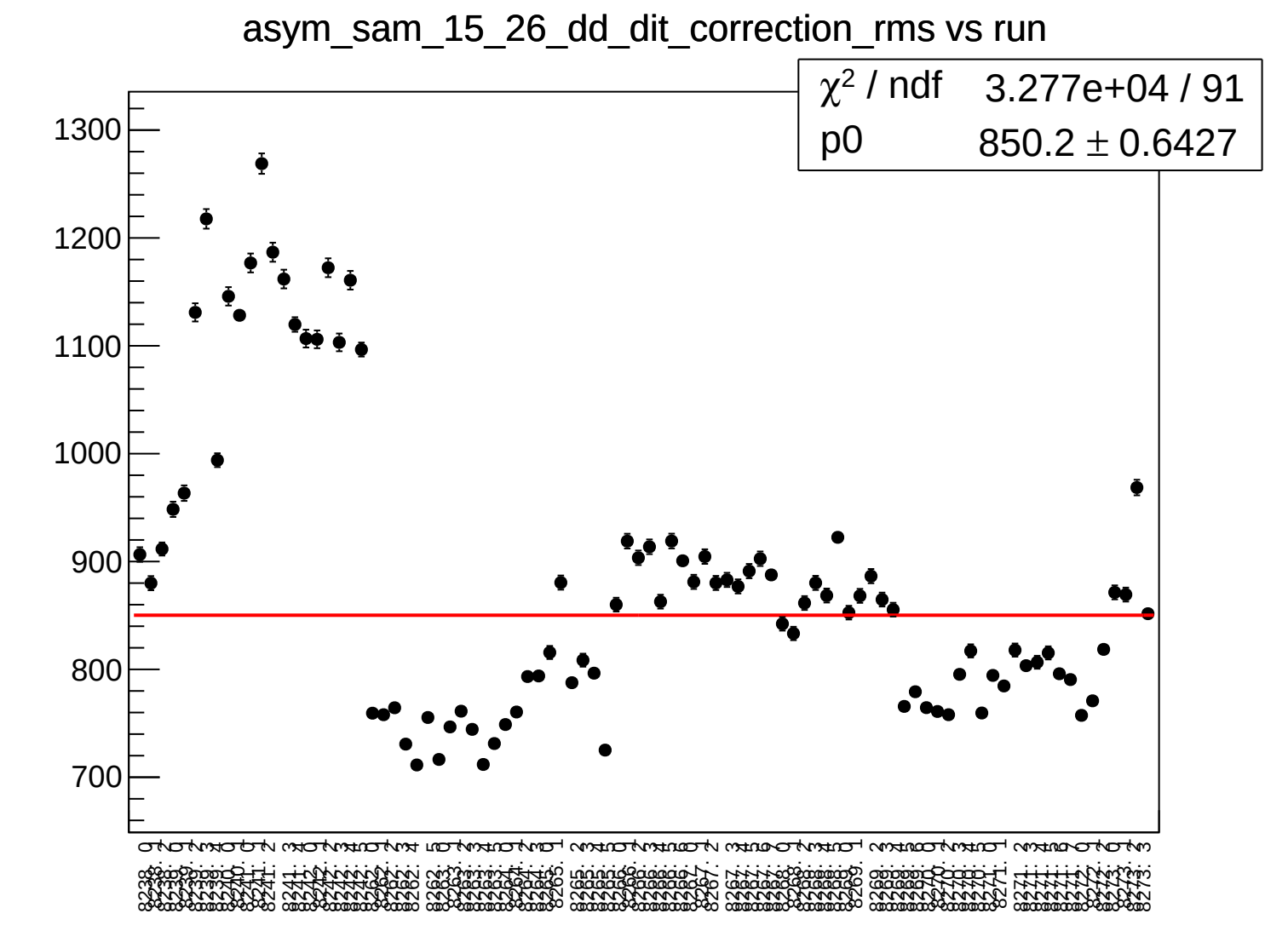

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 104.1 / 91
p0 −7.251 ± 86.74
pull
Entries 92
Mean −6.204
Std Dev 94.48

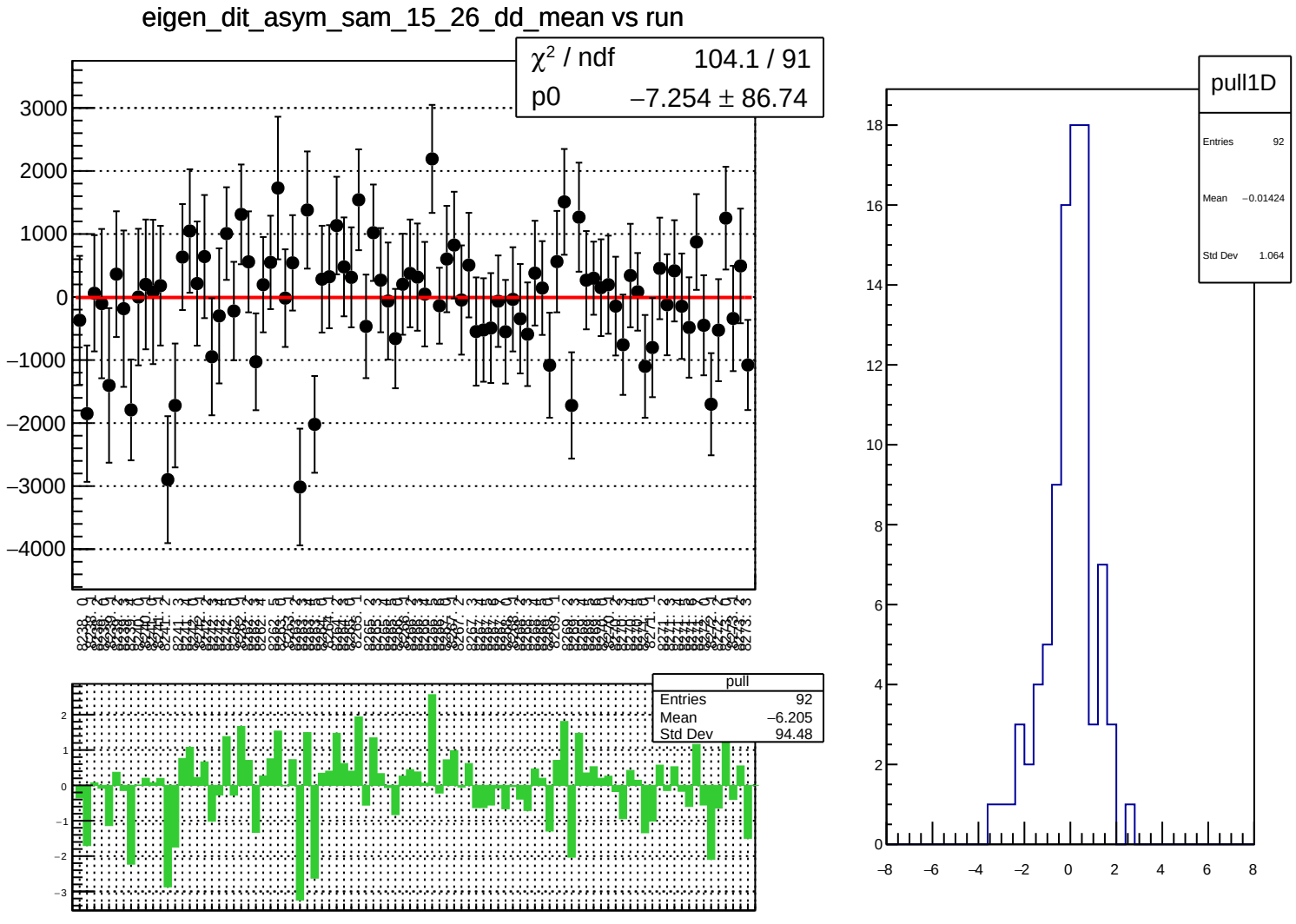

pull1D
Entries 92
Mean −0.01424
Std Dev 1.064

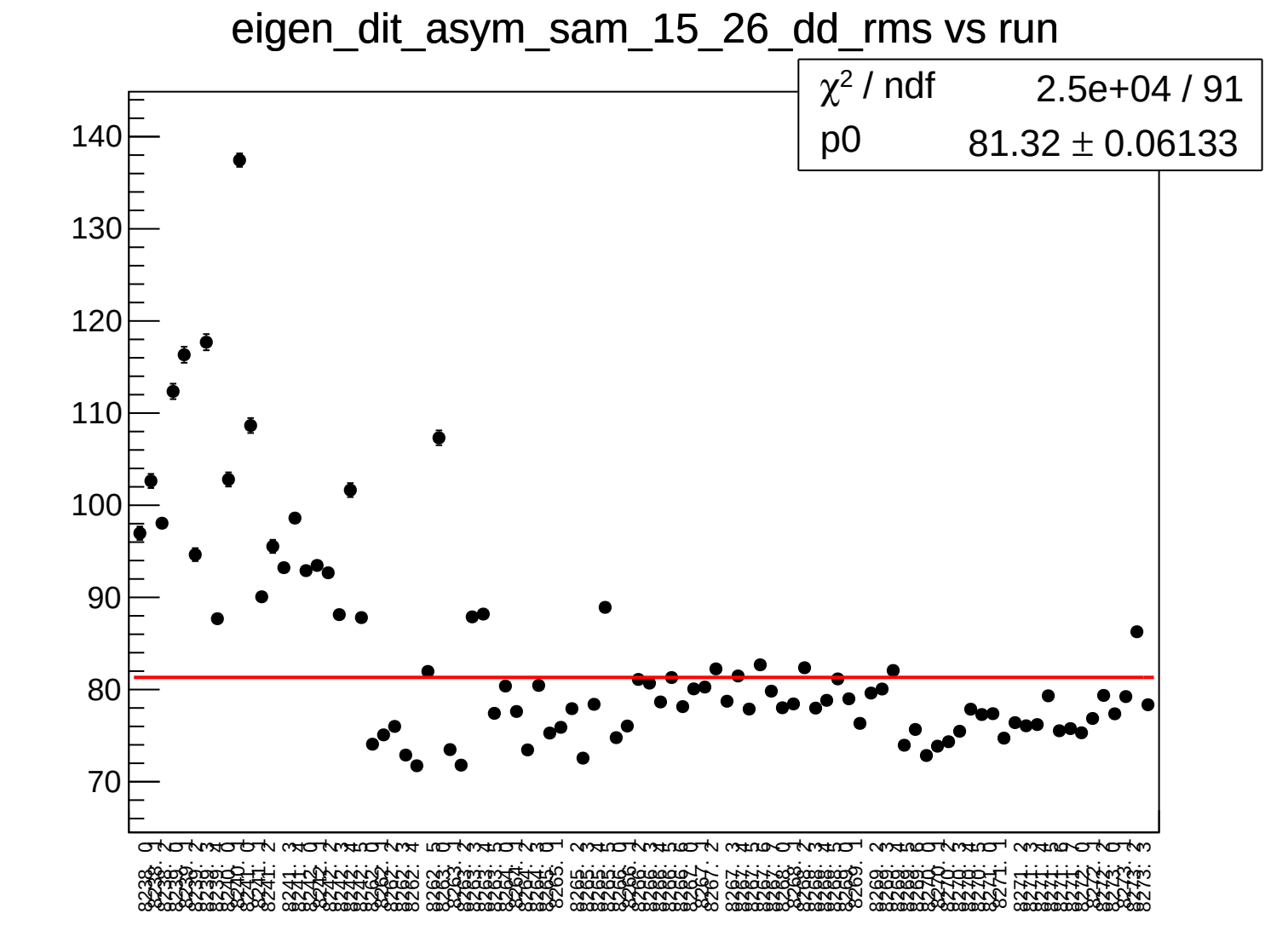

dit_asym_sam_15_26_dd_rms vs run
$\chi^2$ / ndf 2.5e+04 / 91
p0 81.32 ± 0.06133
140
130
120
110
100
90
80
70

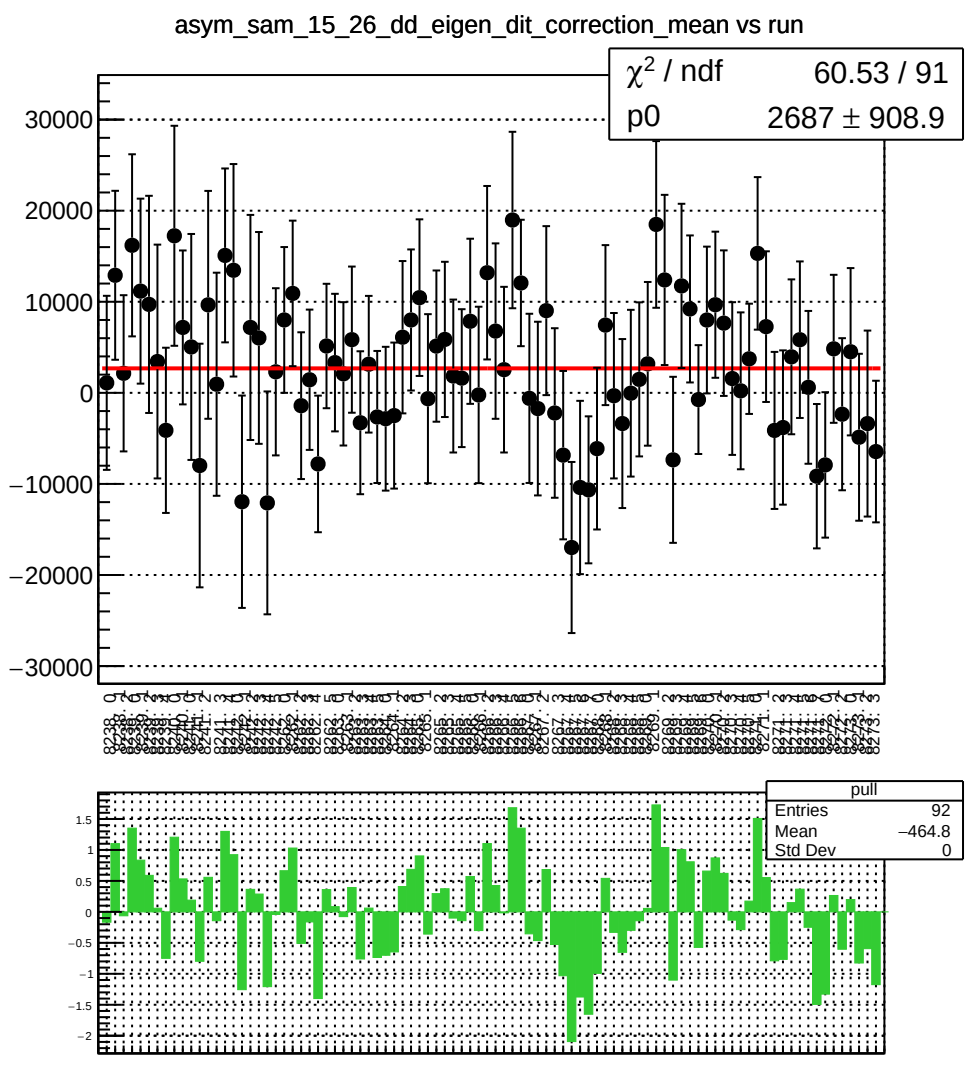

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 60.53 / 91
p0 2687 ± 908.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −464.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

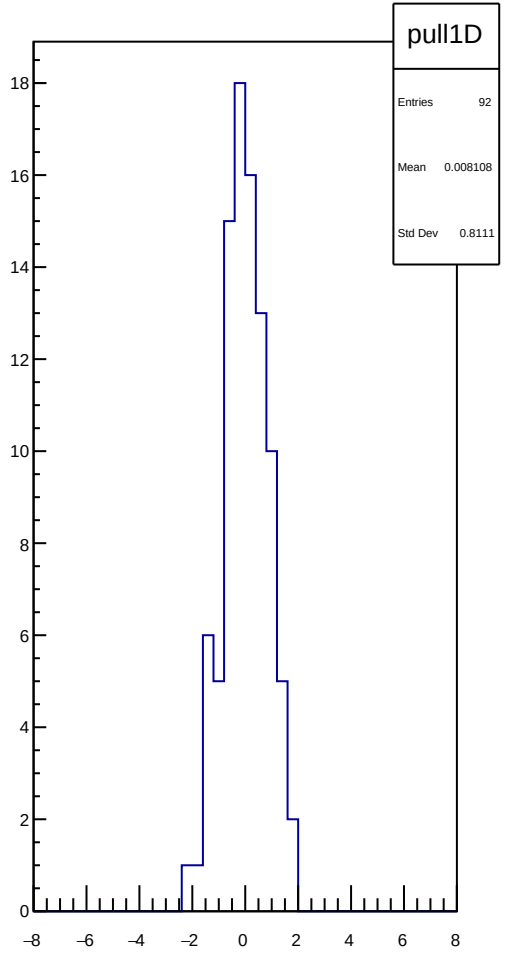

pull1D
Entries 92
Mean 0.008108
Std Dev 0.8111
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

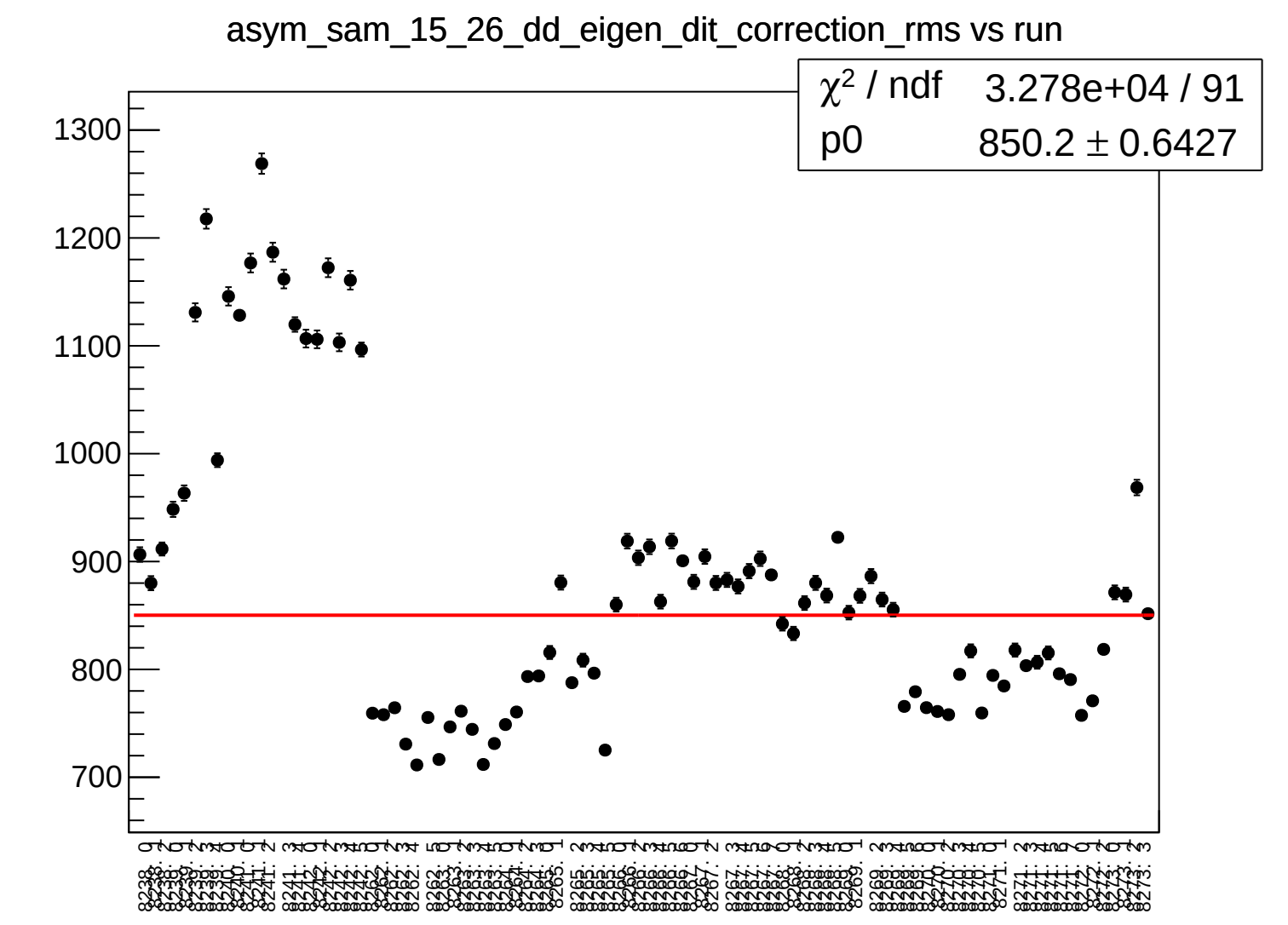

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 3.277e+04 / 91
p0 850.2 ± 0.6427
1300
1200
1100
1000
900
800
700

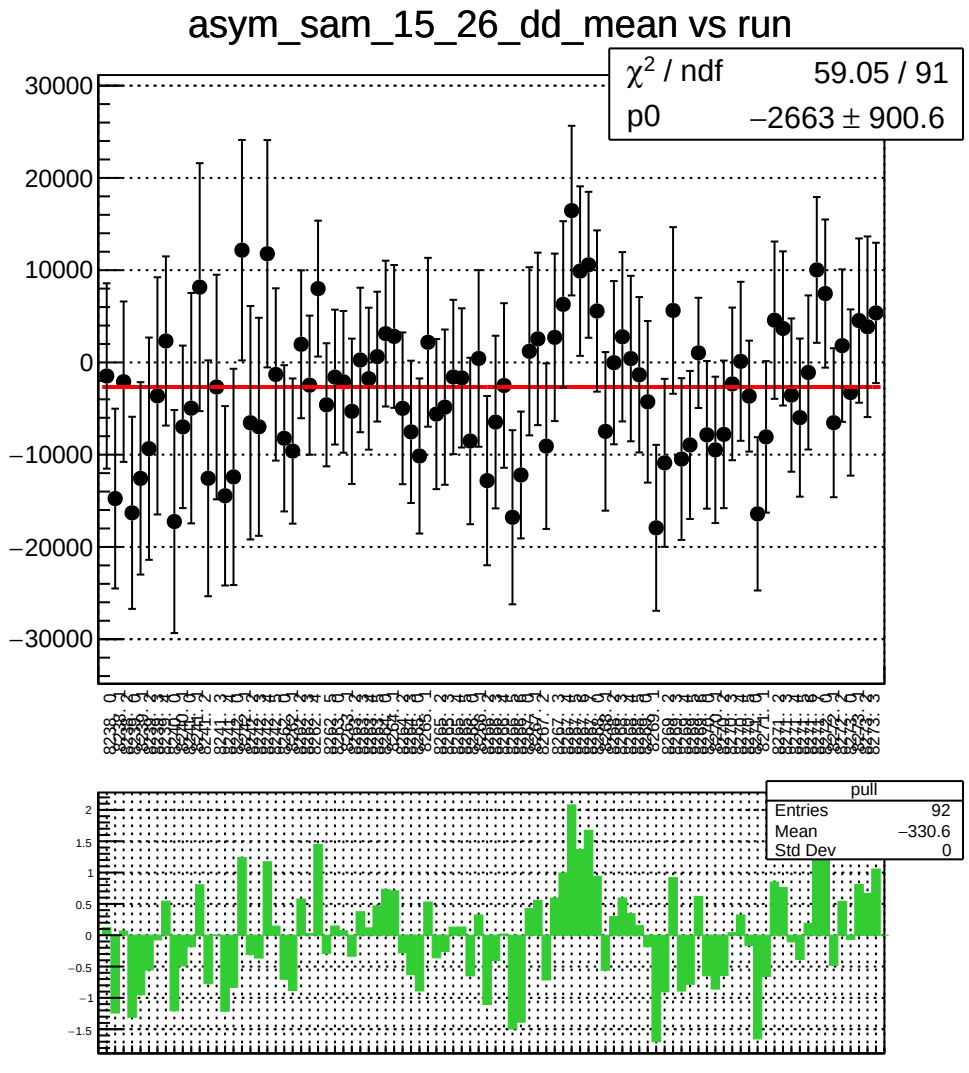

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 104.1 / 91
p0 −7.254 ± 86.74
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 92
Mean −6.205
Std Dev 94.48
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.01424
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

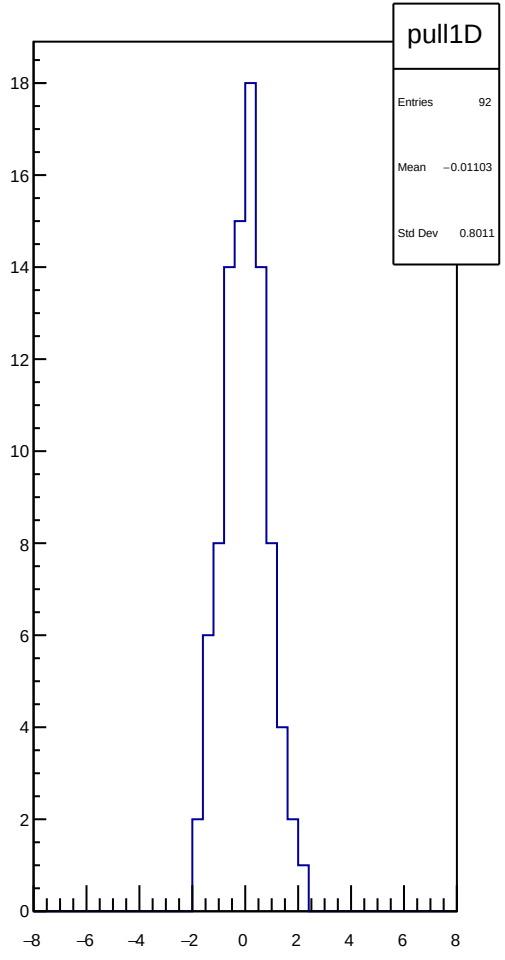

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.5e+04 / 91
p0 81.32 ± 0.06133
140
130
120
110
100
90
80
70

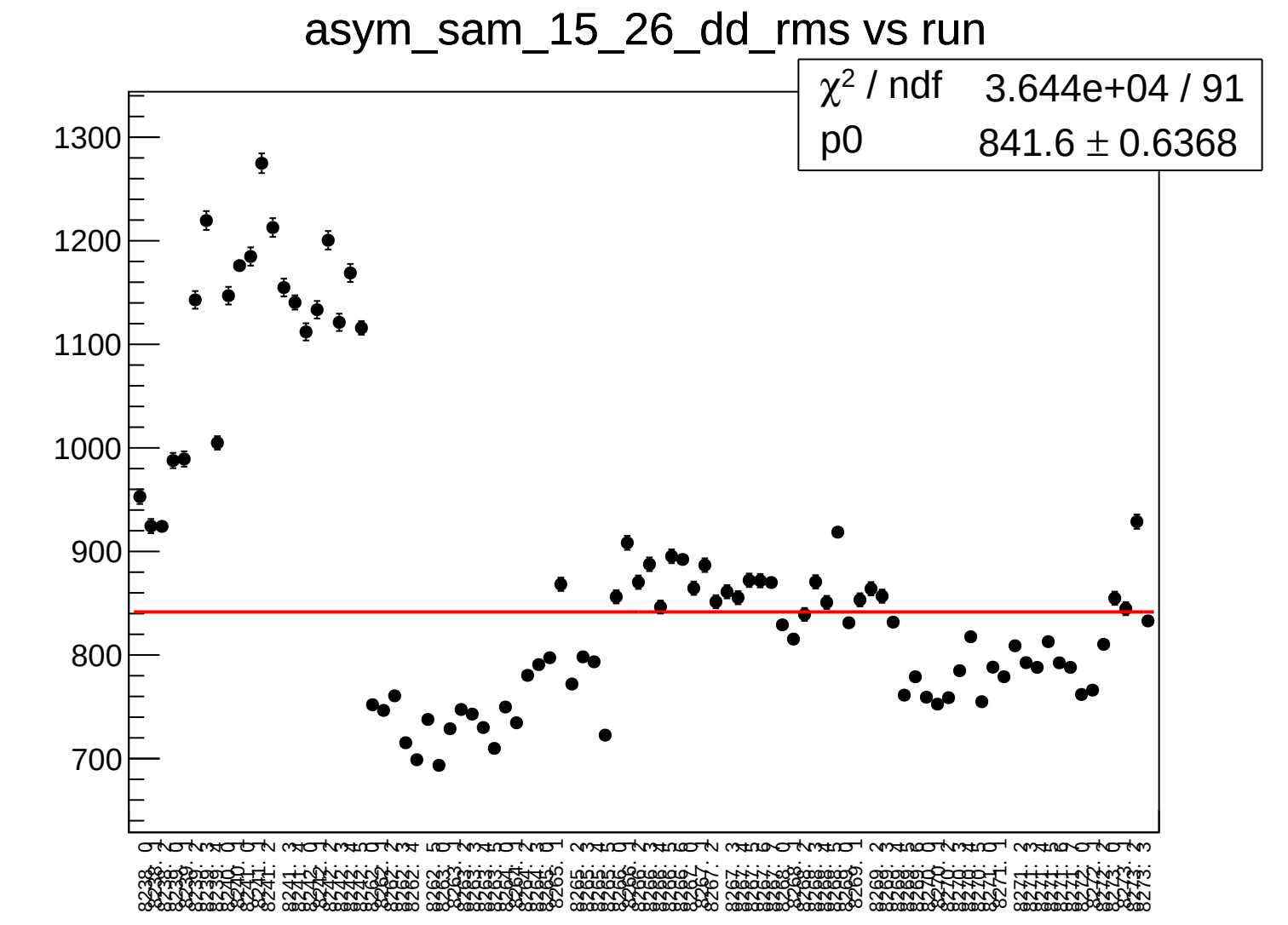

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 60.53 / 91
p0 2687 ± 908.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −464.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

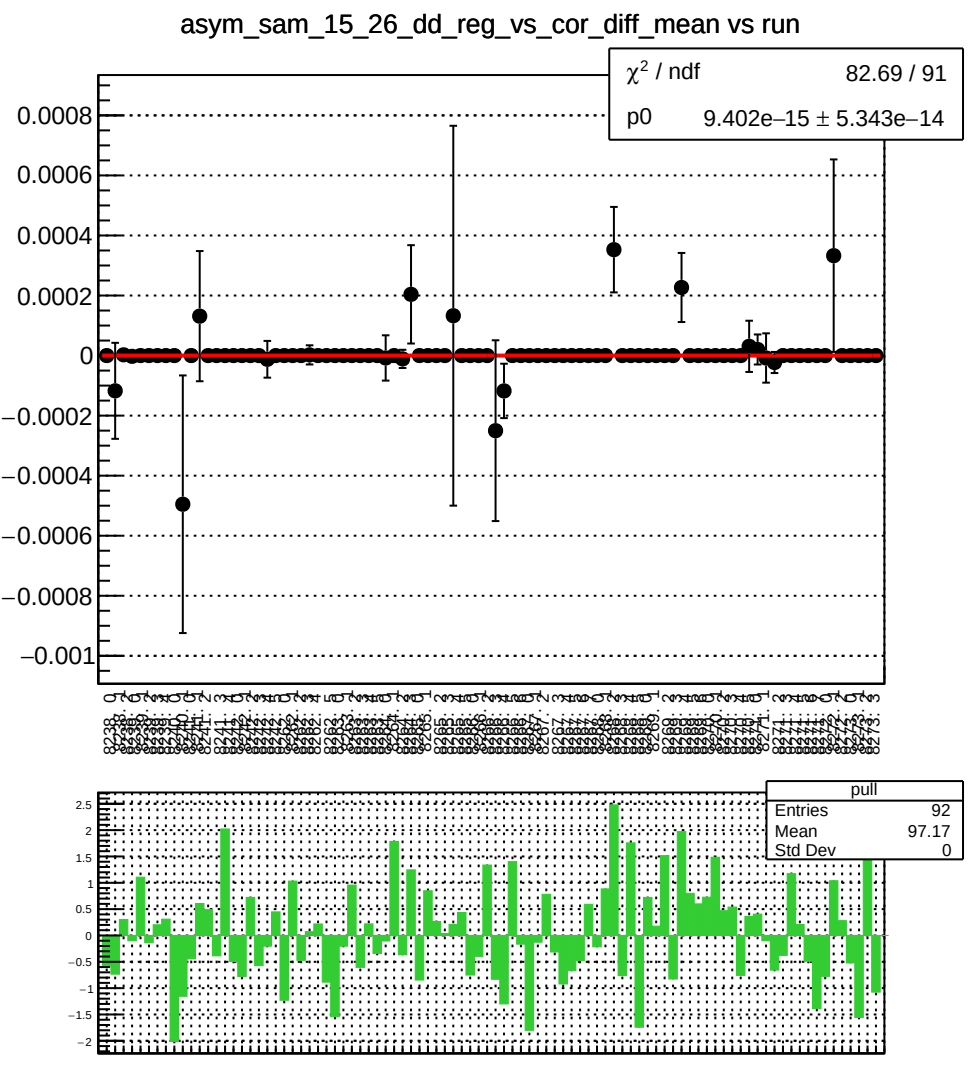

pull1D
Entries 92
Mean 0.008108
Std Dev 0.8111
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

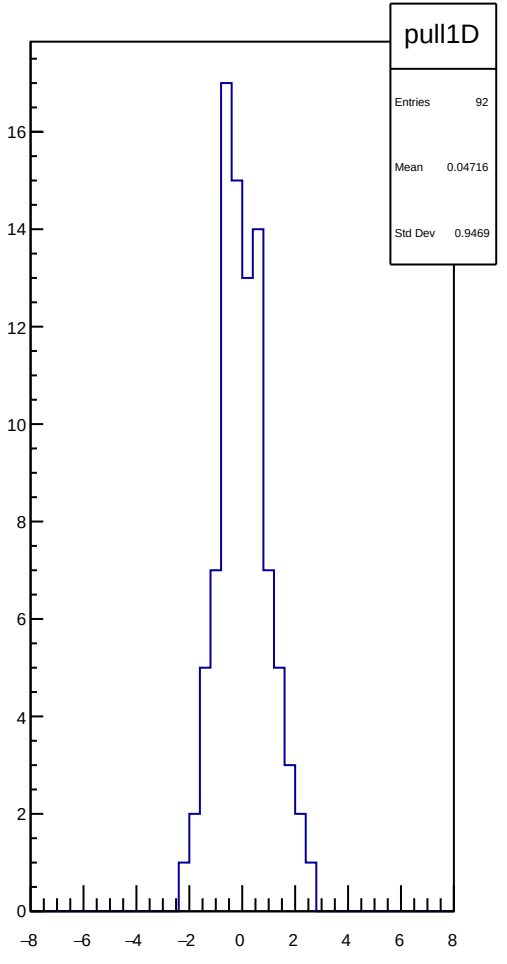

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.278e+04 / 91
p0 850.2 ± 0.6427
1300
1200
1100
1000
900
800
700

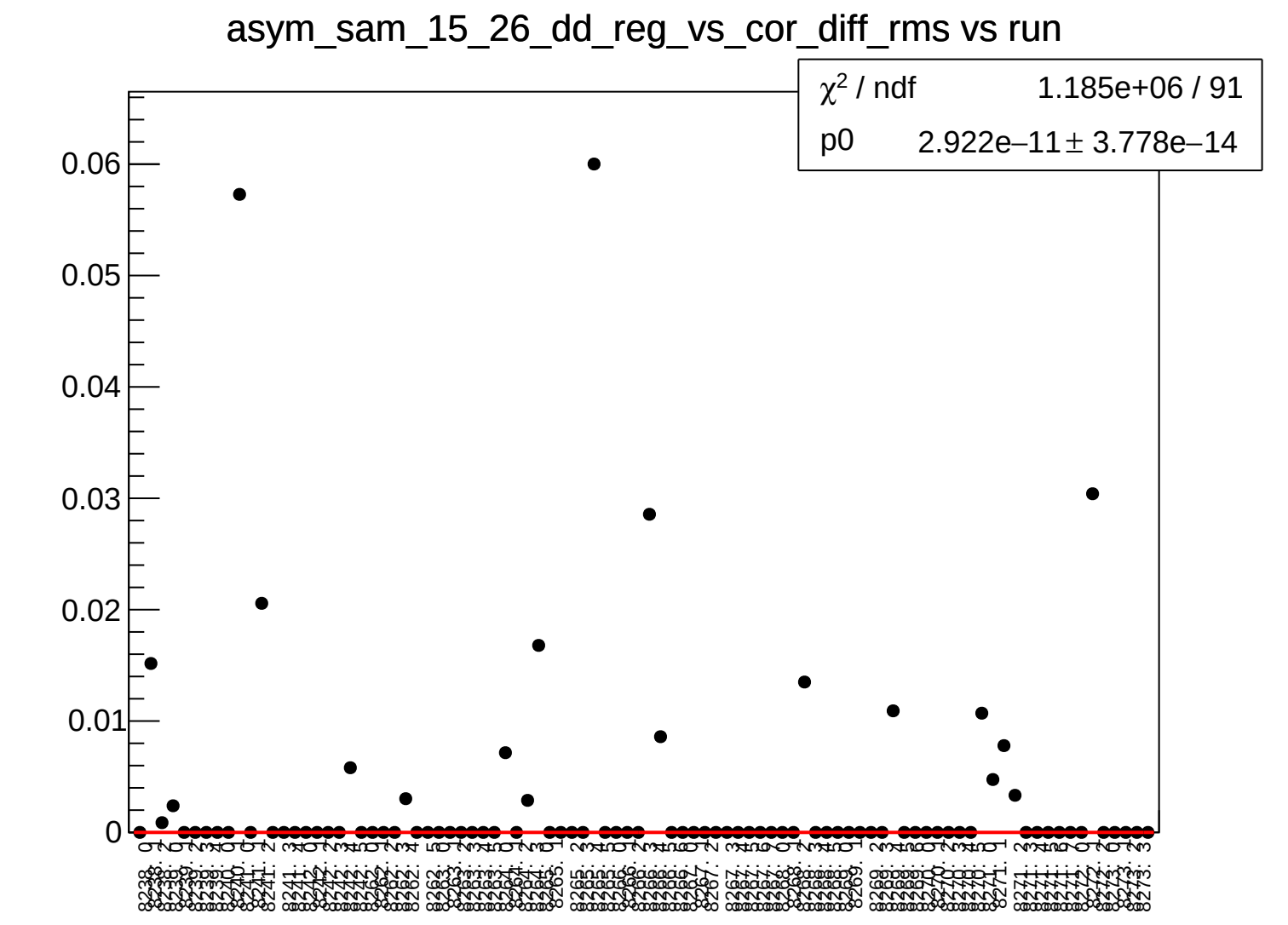

asym_sam_15_26_dd_mean vs run
χ² / ndf 59.05 / 91
p0 −2663 ± 900.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −330.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

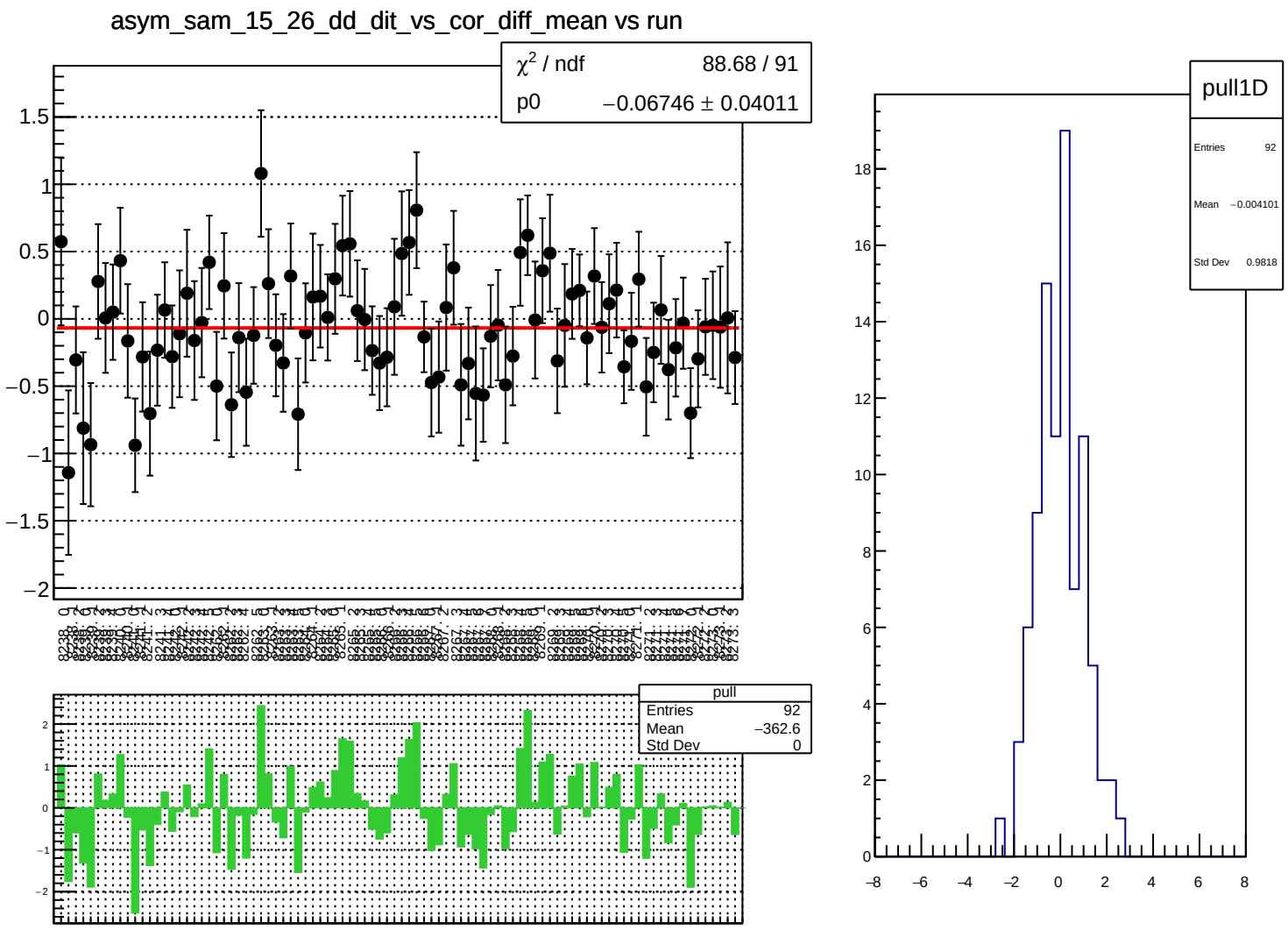

pull1D
Entries 92
Mean −0.01103
Std Dev 0.8011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

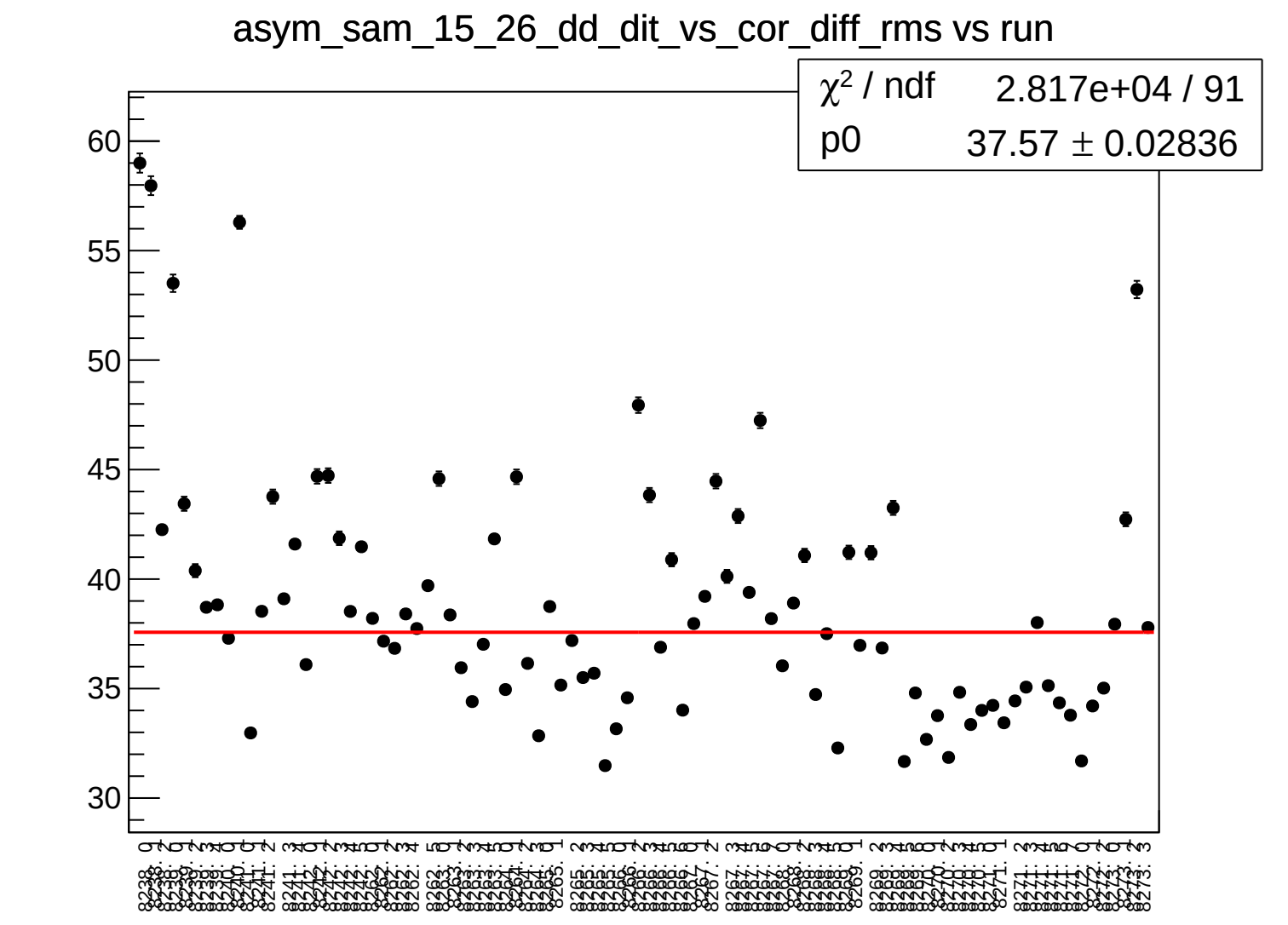

asym_sam_15_26_dd_rms vs run
χ² / ndf 3.644e+04 / 91
p0 841.6 ± 0.6368
1300
1200
1100
1000
900
800
700

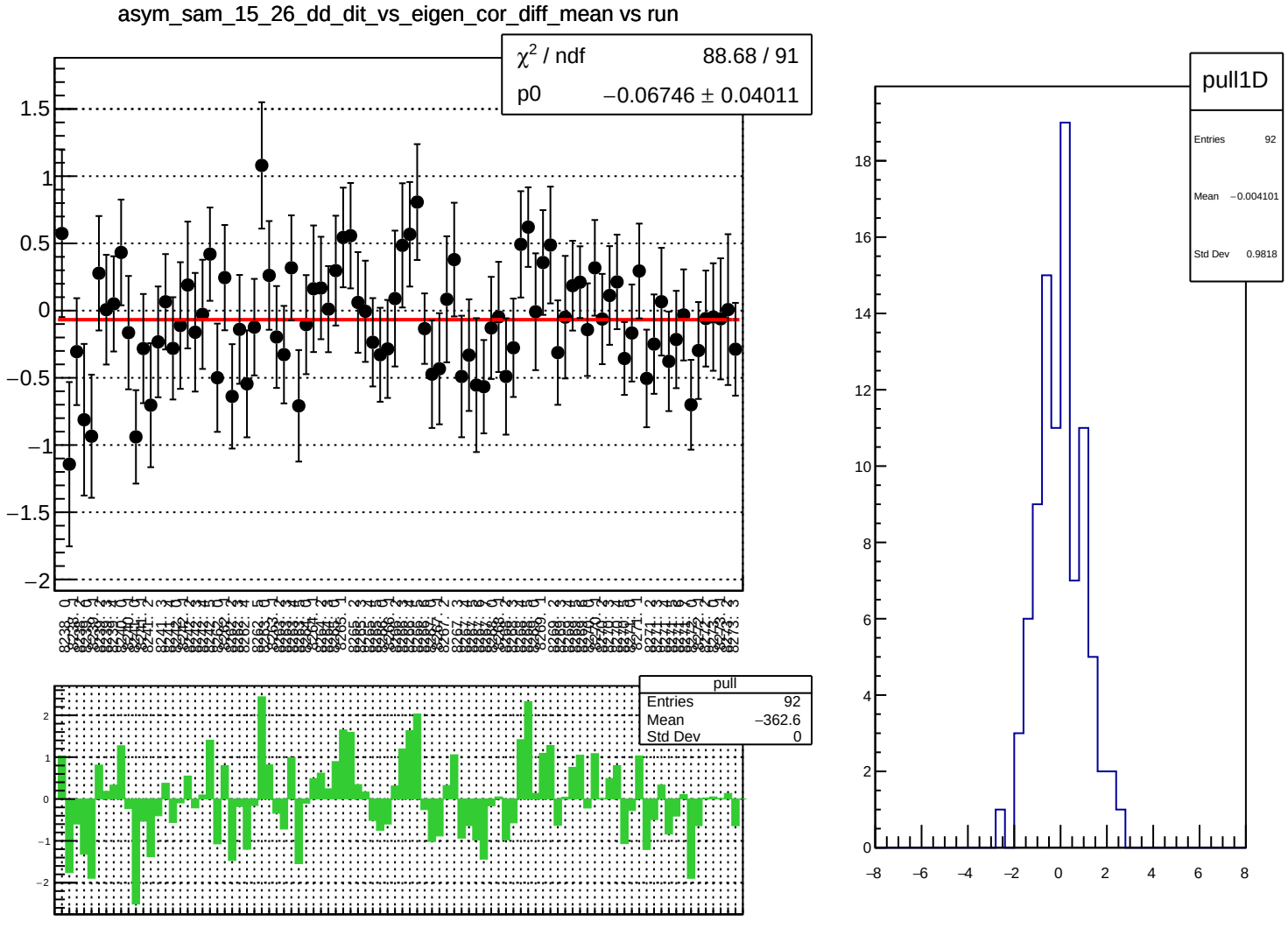

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.69 / 91
p0 9.402e−15 ± 5.343e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 92
Mean 97.17
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

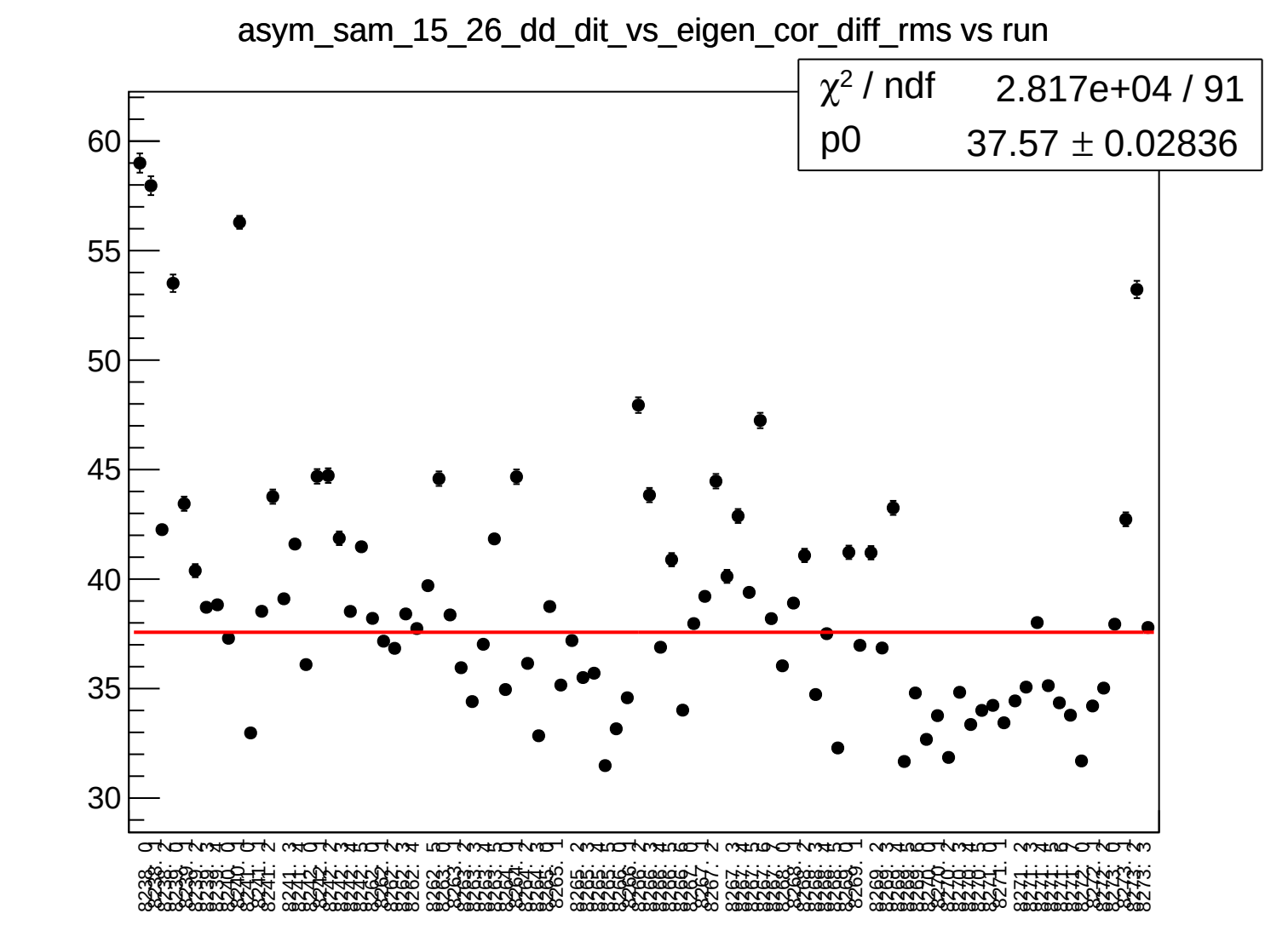

pull1D
Entries 92
Mean 0.04716
Std Dev 0.9469
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

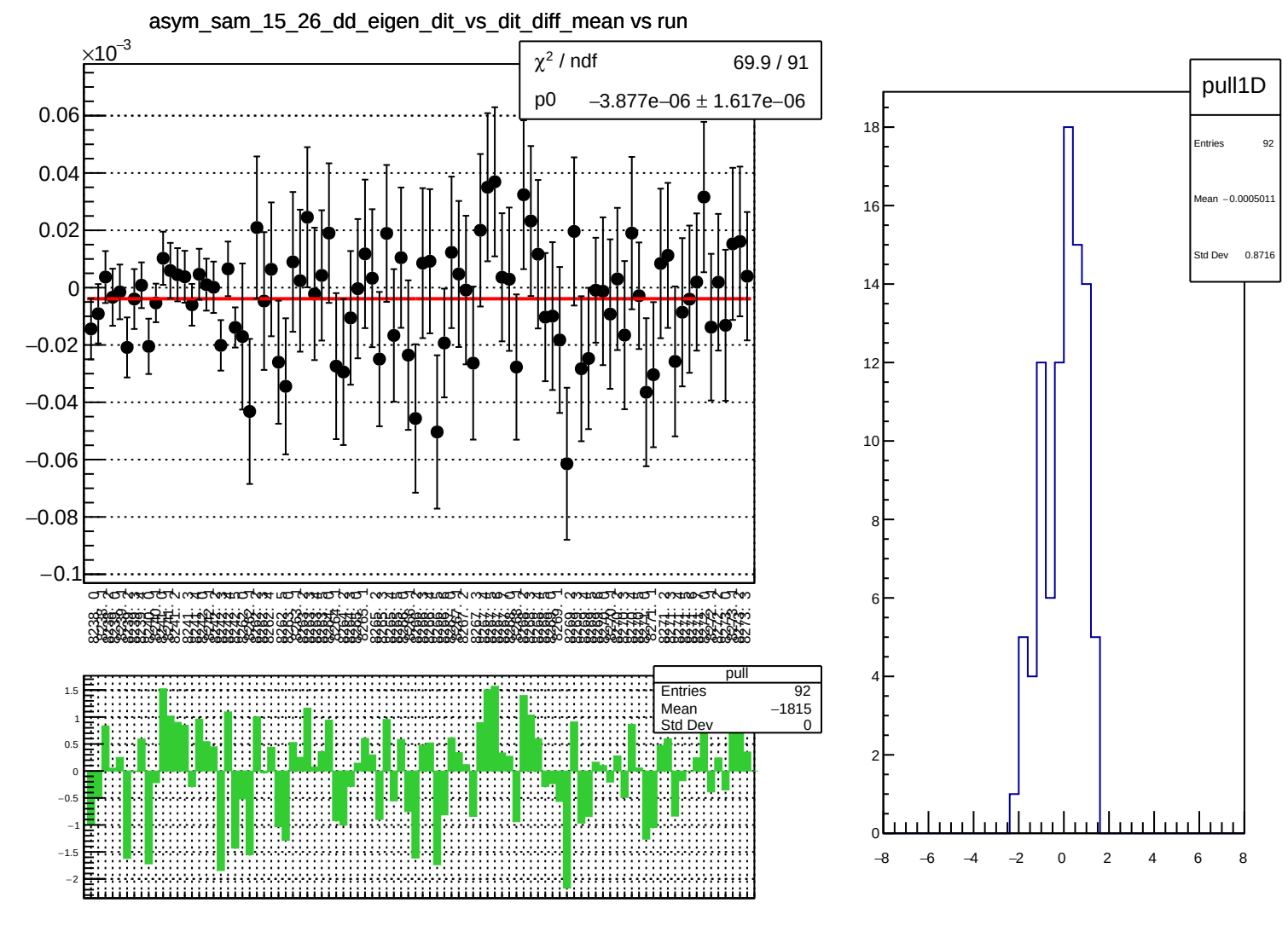

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.185e+06 / 91
p0 2.922e−11 ± 3.778e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

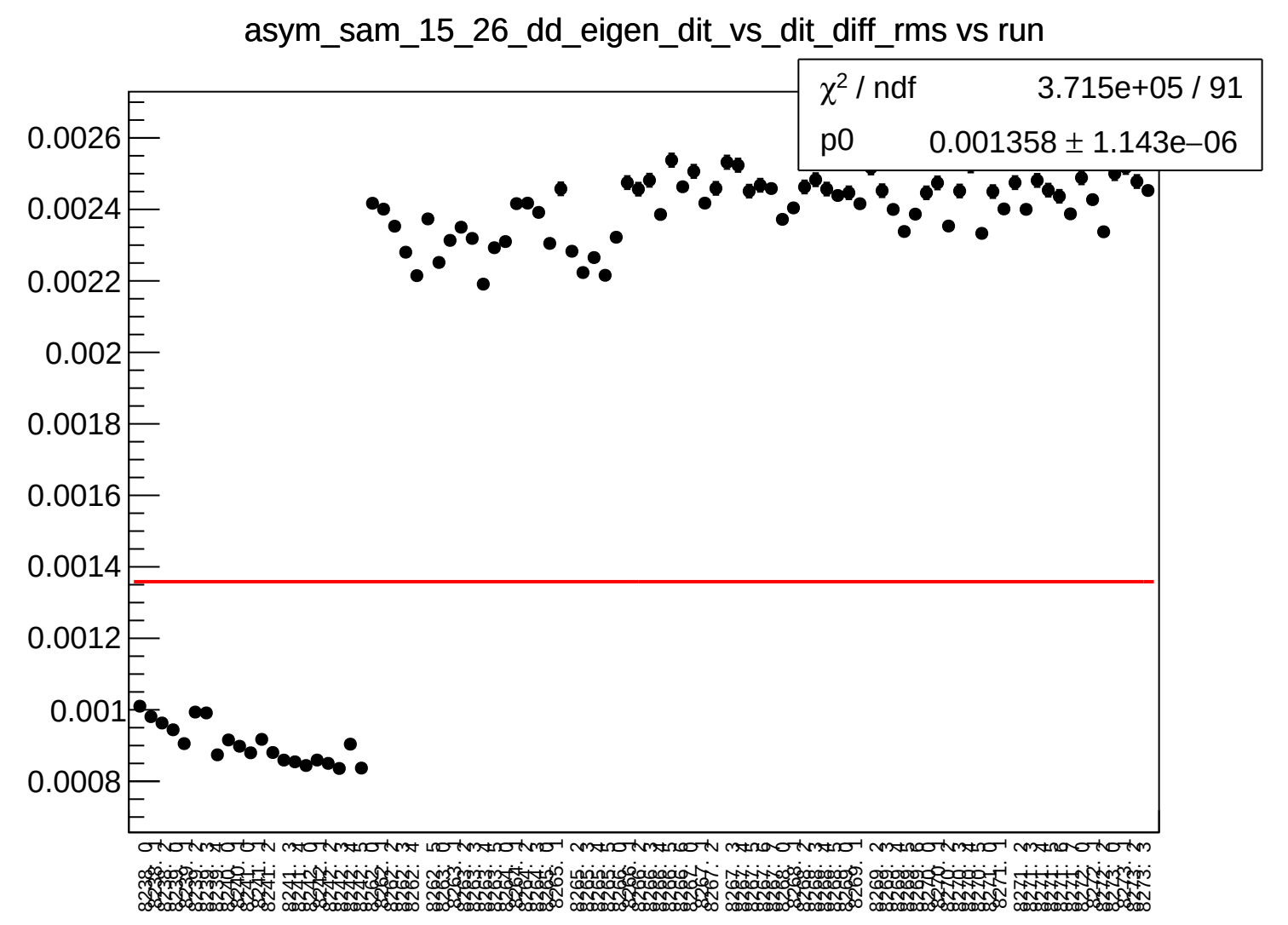

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.68 / 91
p0 −0.06746 ± 0.04011
pull
Entries 92
Mean −362.6
Std Dev 0
pull1D
Entries 92
Mean −0.004101
Std Dev 0.9818

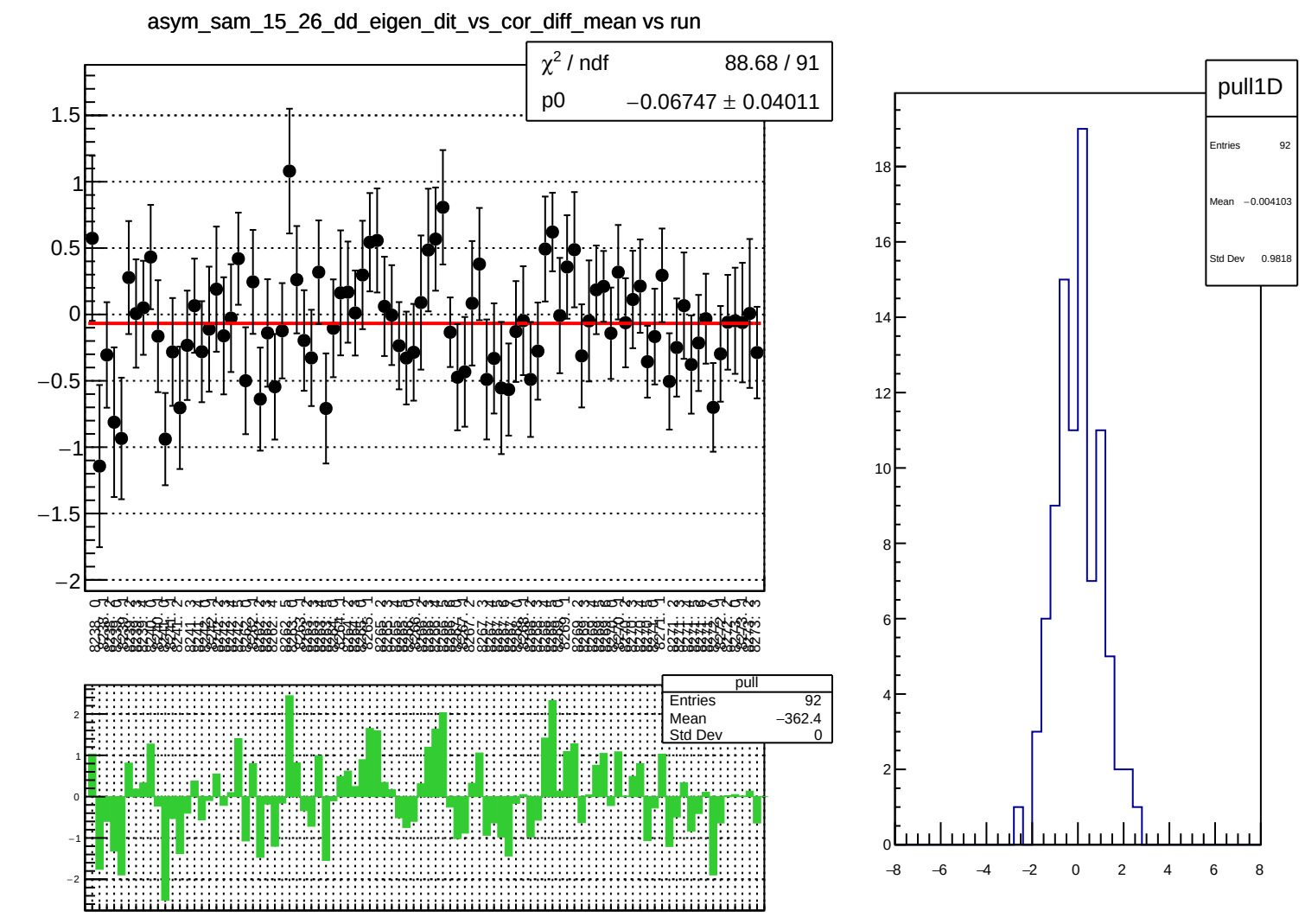

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.817e+04 / 91
p0 37.57 ± 0.02836
60
55
50
45
40
35
30

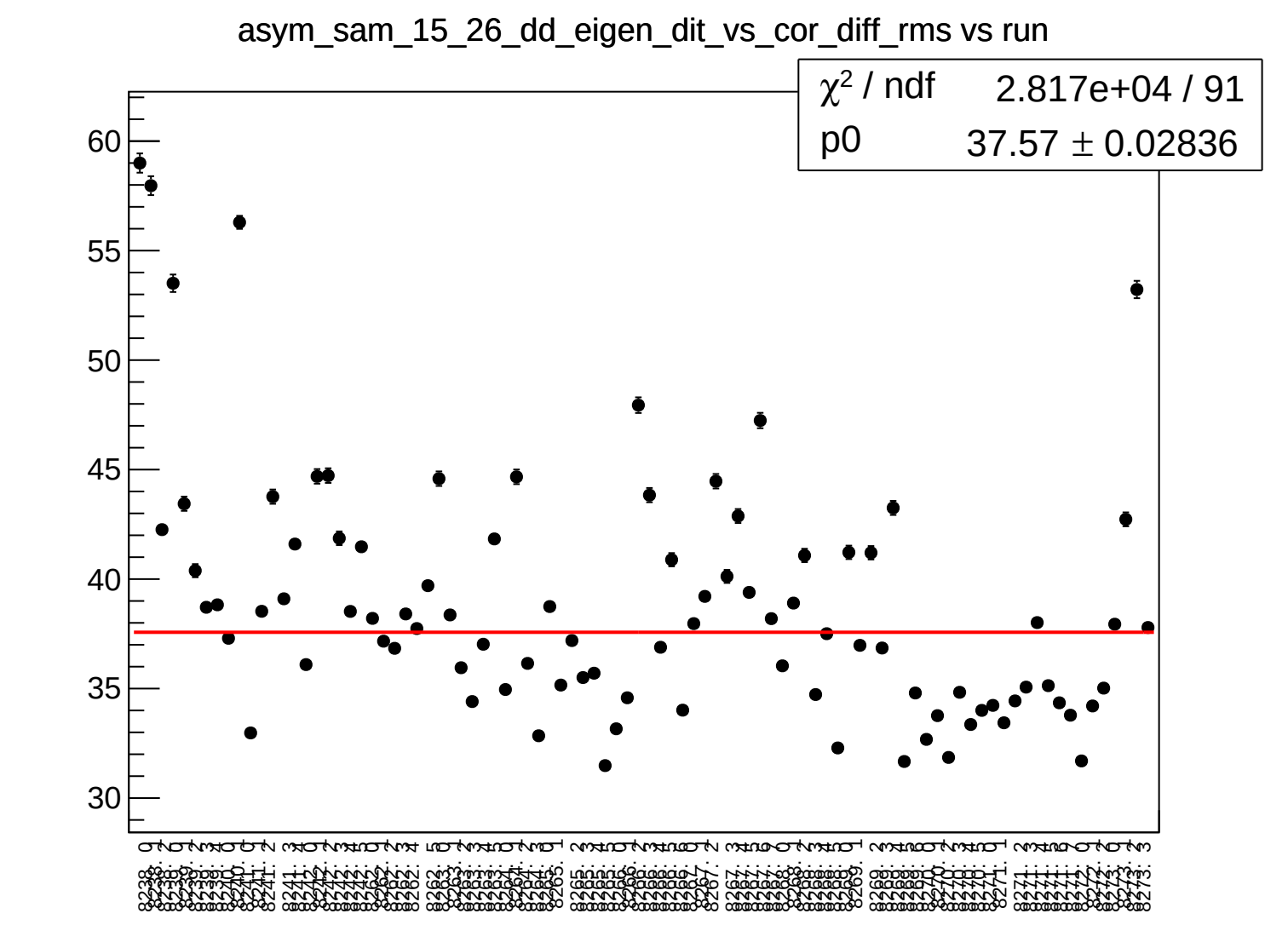

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.68 / 91
p0 −0.06746 ± 0.04011
pull
Entries 92
Mean −362.6
Std Dev 0
pull1D
Entries 92
Mean −0.004101
Std Dev 0.9818

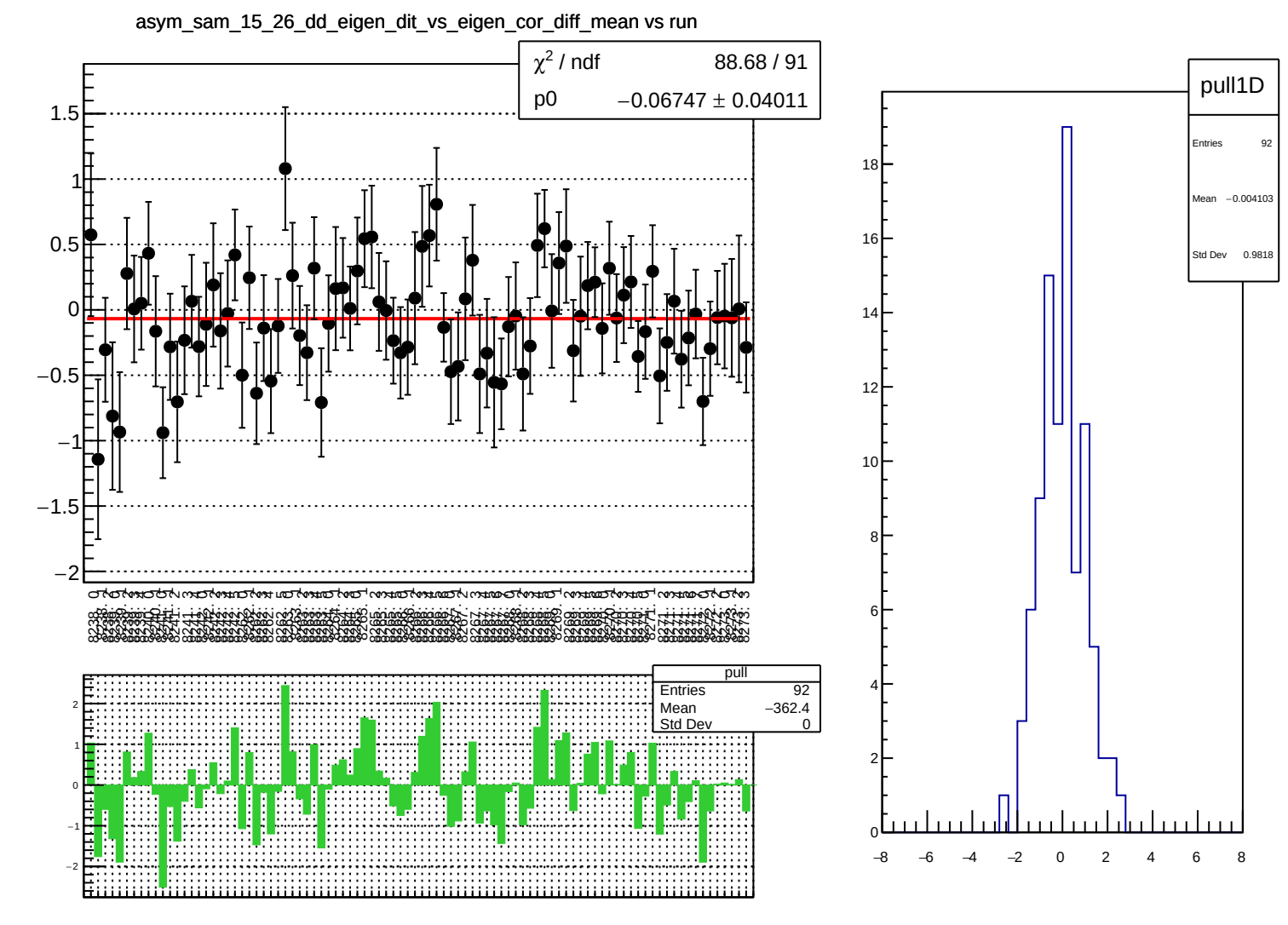

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.817e+04 / 91
p0 37.57 ± 0.02836
60
55
50
45
40
35
30

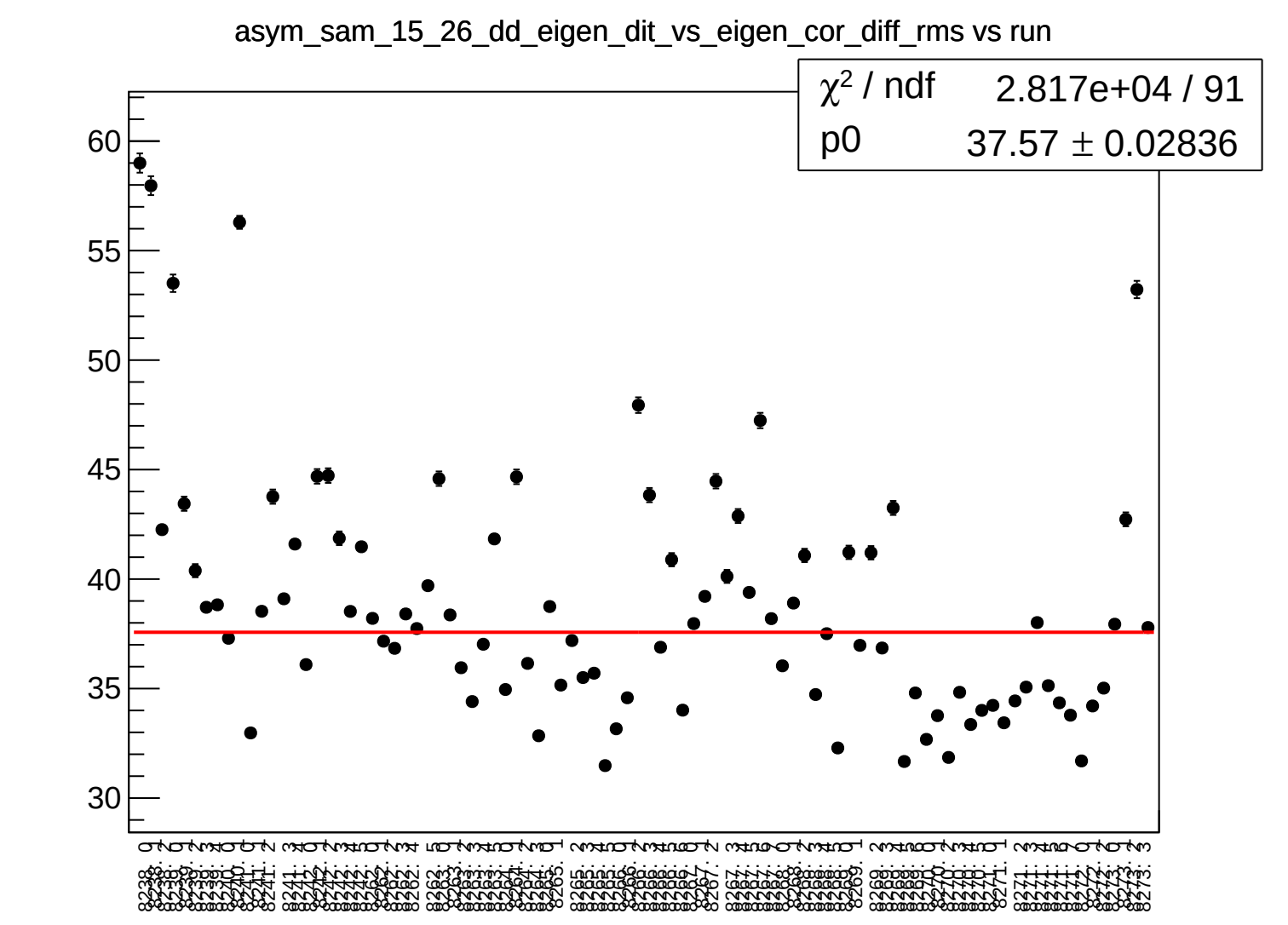

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.9 / 91
p0 −3.877e−06 ± 1.617e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 92
Mean −1815
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.0005011
Std Dev 0.8716
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

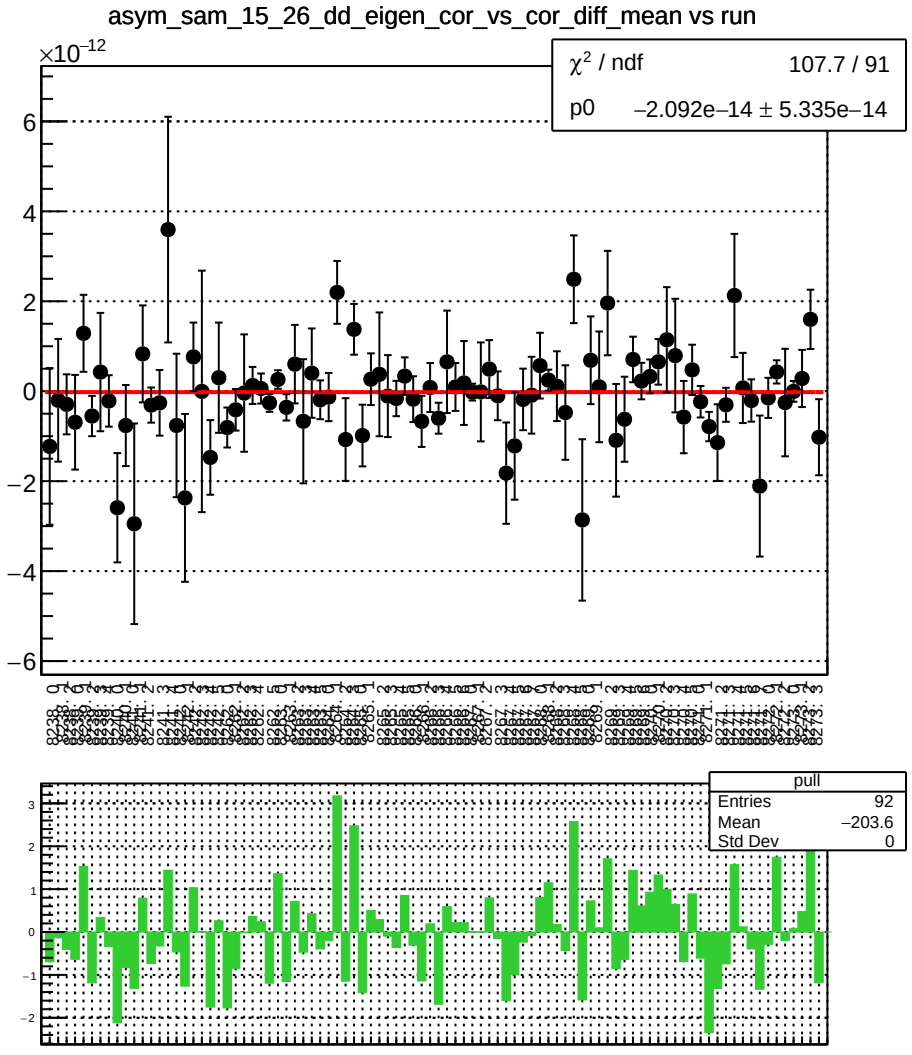

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.715e+05 / 91
p0 0.001358 ± 1.143e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

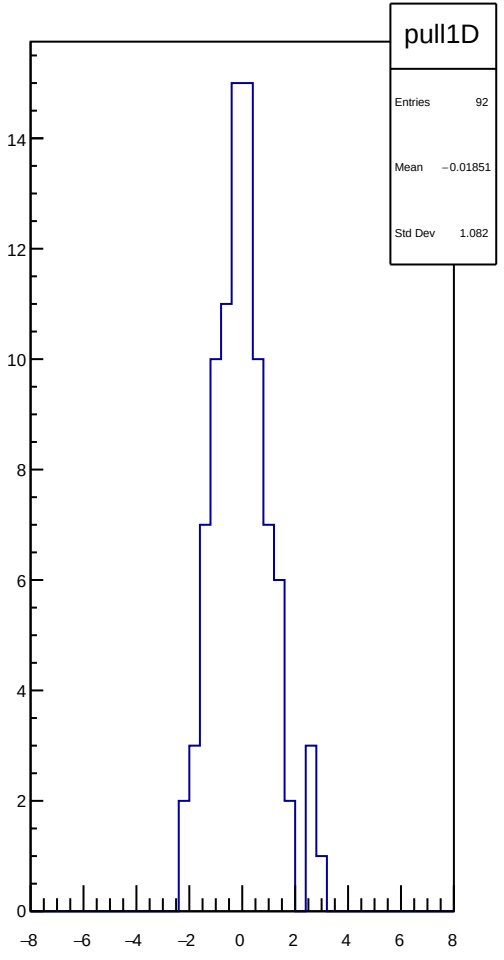

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.68 / 91
p0 −0.06747 ± 0.04011
pull
Entries 92
Mean −362.4
Std Dev 0
pull1D
Entries 92
Mean −0.004103
Std Dev 0.9818

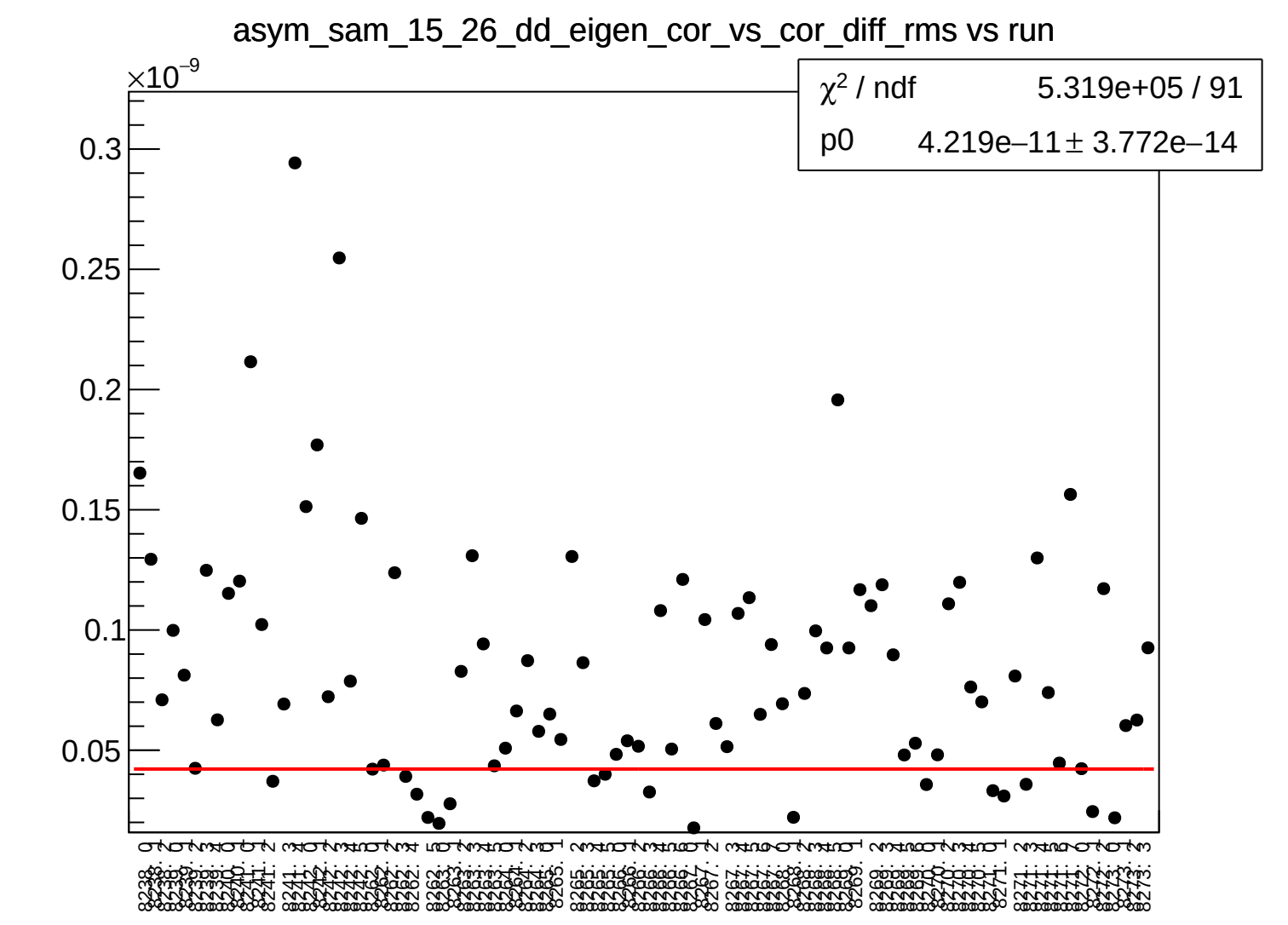

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.817e+04 / 91
p0 37.57 ± 0.02836
60
55
50
45
40
35
30

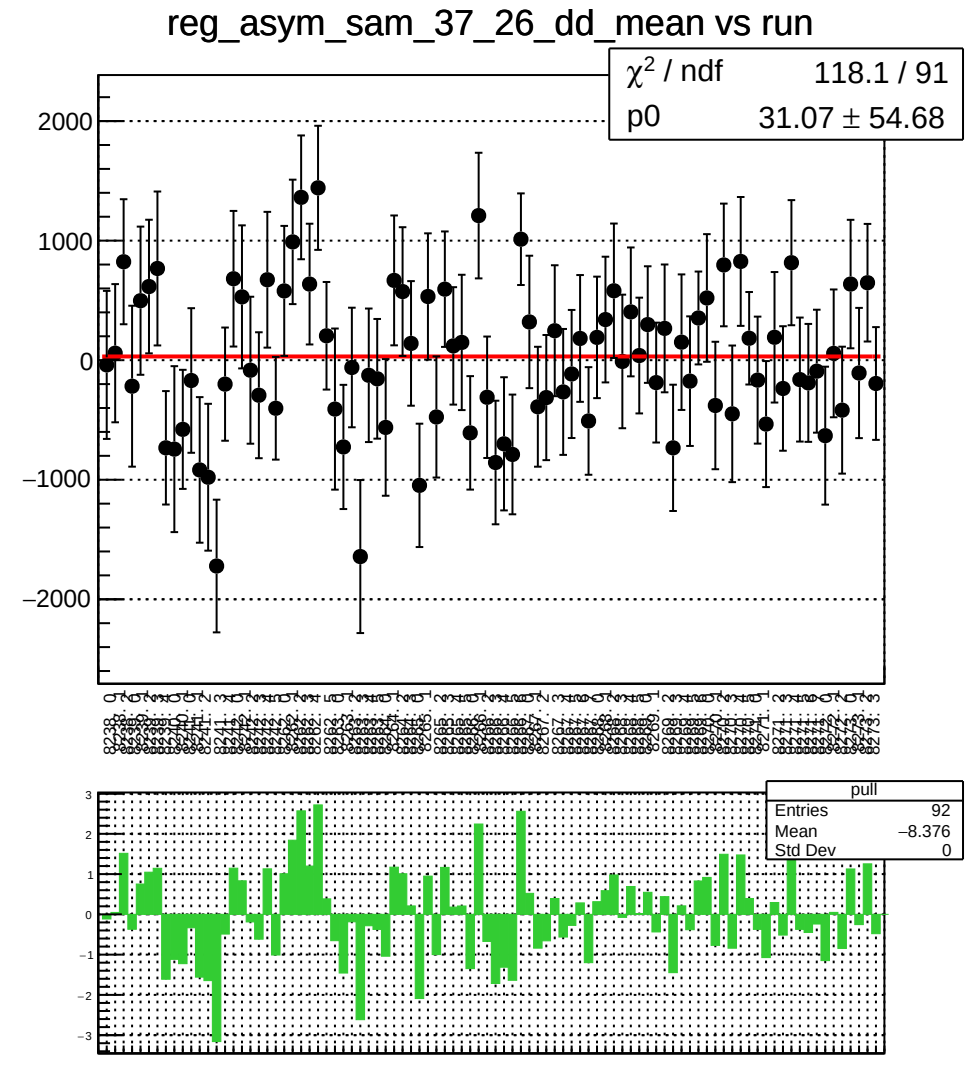

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.68 / 91
p0 −0.06747 ± 0.04011
pull
Entries 92
Mean −362.4
Std Dev 0
pull1D
Entries 92
Mean −0.004103
Std Dev 0.9818

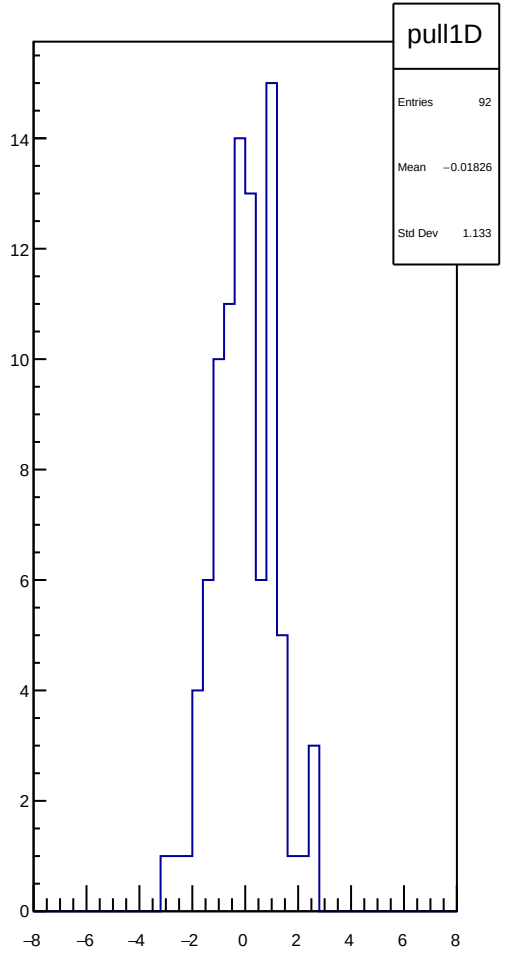

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.817e+04 / 91
p0 37.57 ± 0.02836
60
55
50
45
40
35
30

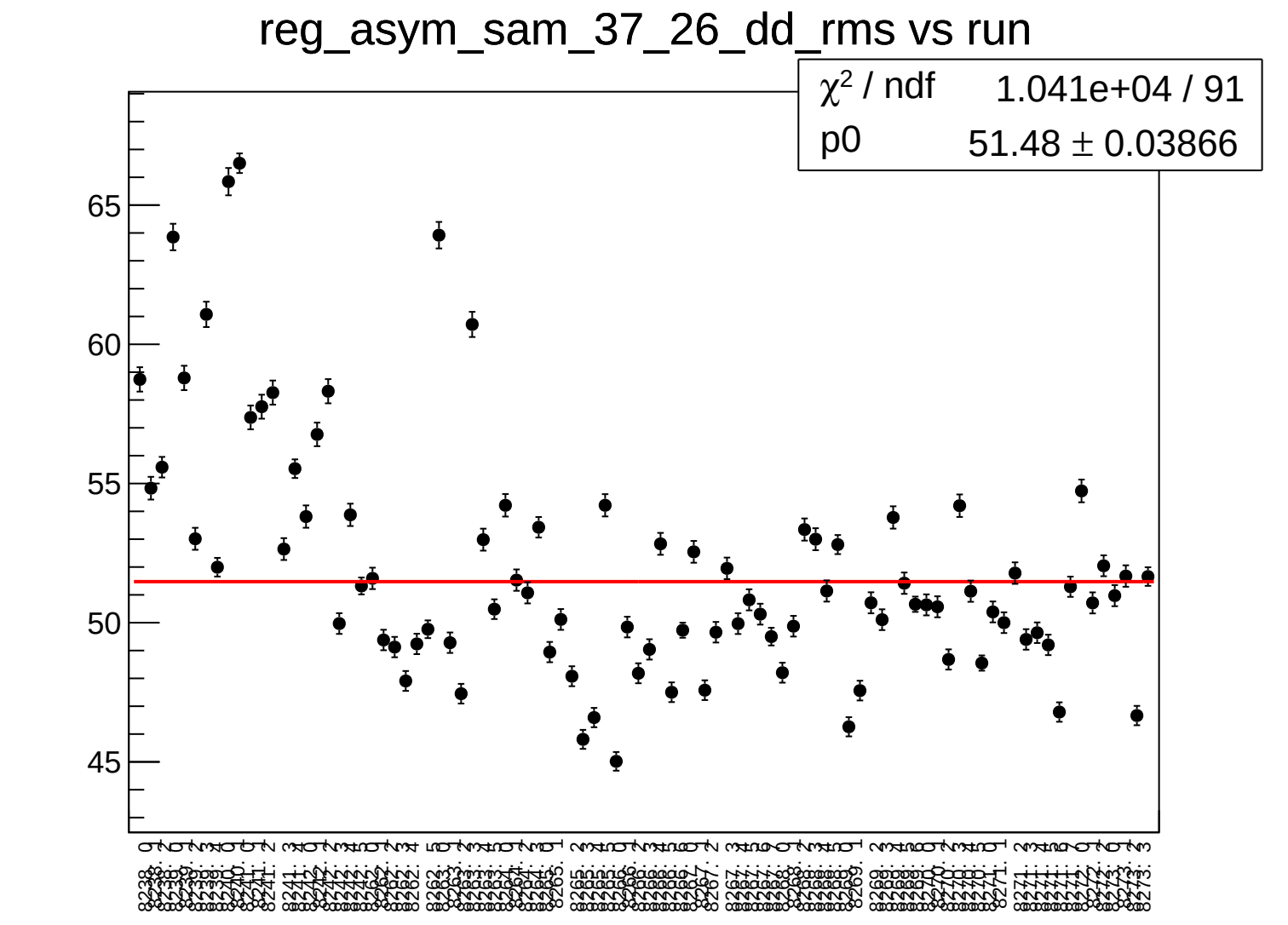

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.7 / 91
p0 −2.092e−14 ± 5.335e−14
pull
Entries 92
Mean −203.6
Std Dev 0

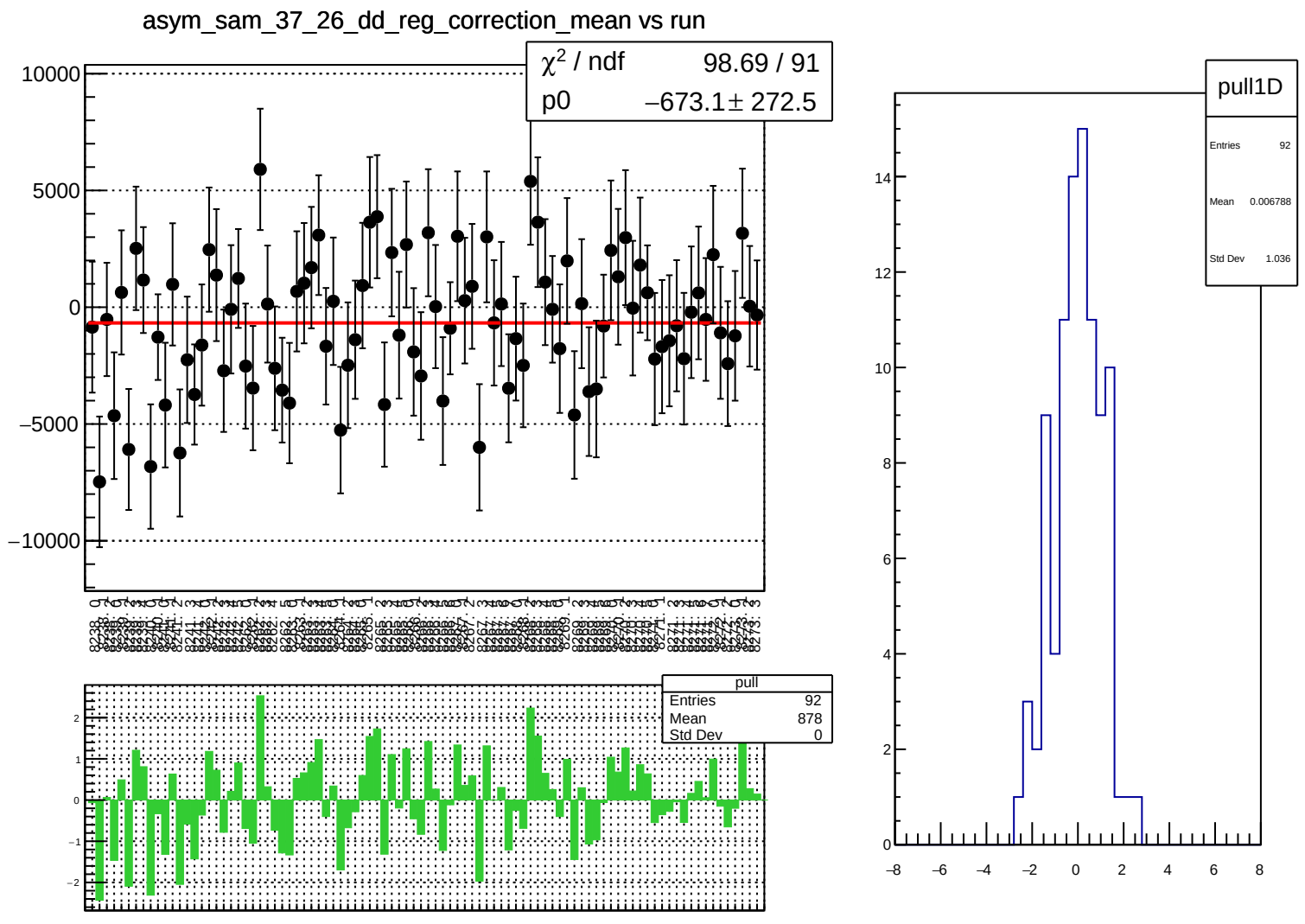

pull1D
Entries 92
Mean −0.01851
Std Dev 1.082

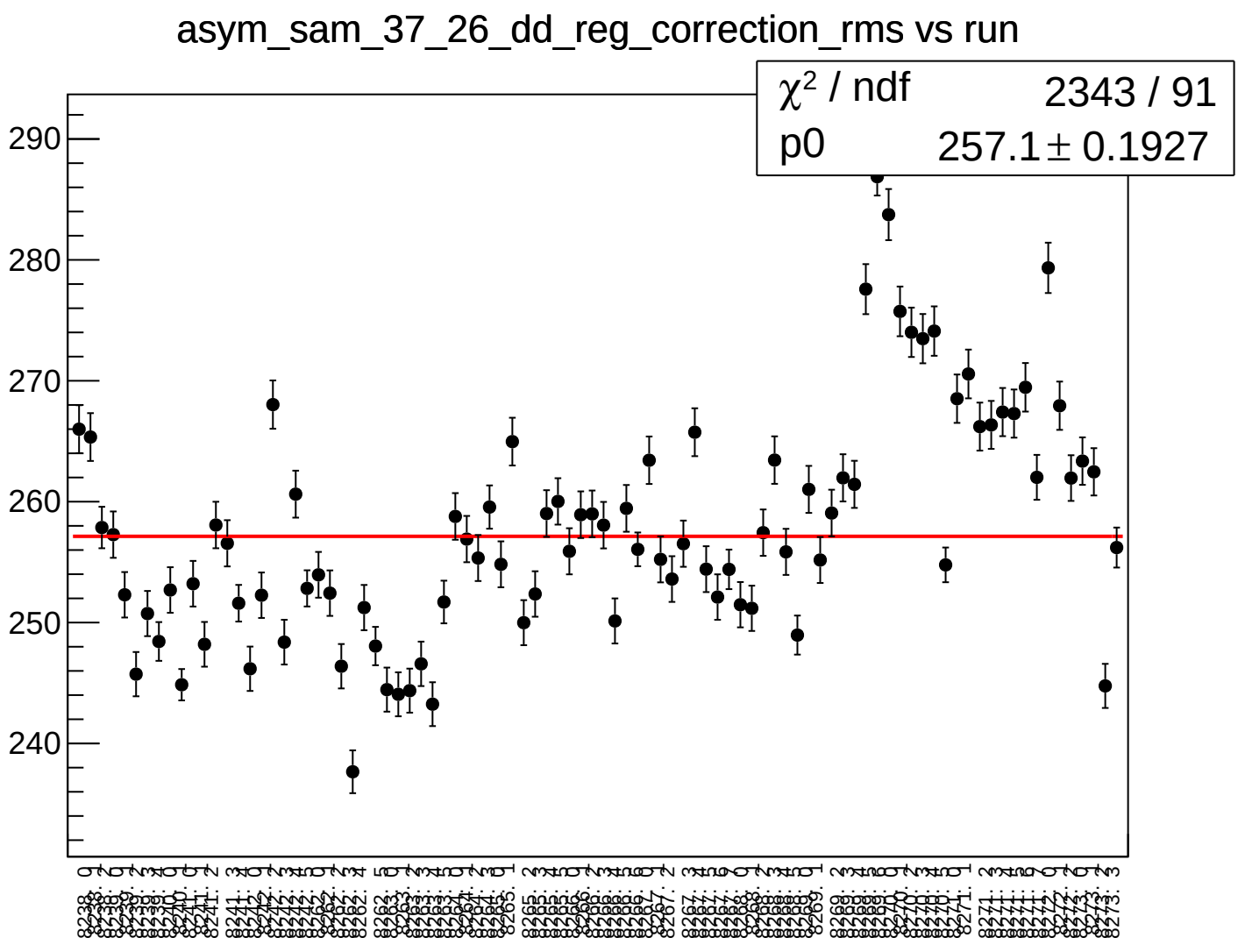

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.319e+05 / 91
p0 4.219e−11 ± 3.772e−14
0.3
0.25
0.2
0.15
0.1
0.05

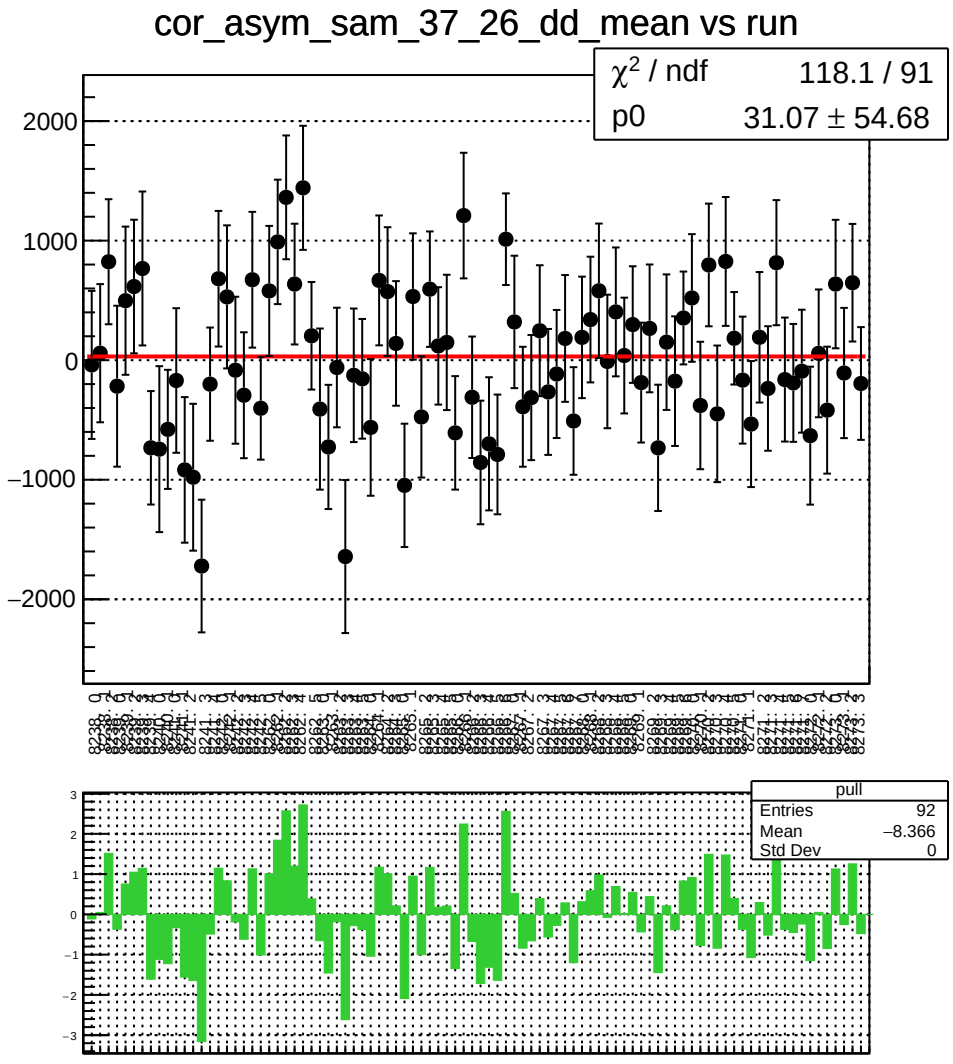

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 118.1 / 91
p0 31.07 ± 54.68
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −8.376
Std Dev 0
3
2
1
0
−1
−2
−3

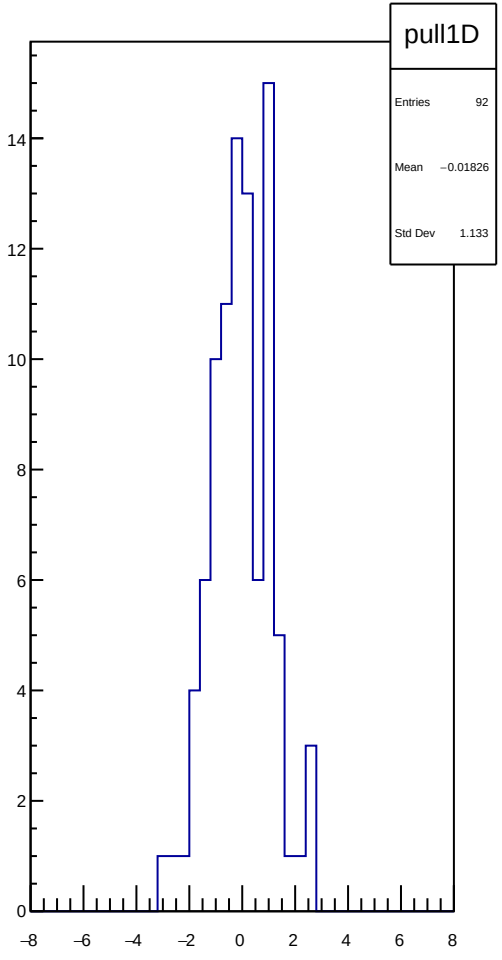

pull1D
Entries 92
Mean −0.01826
Std Dev 1.133
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

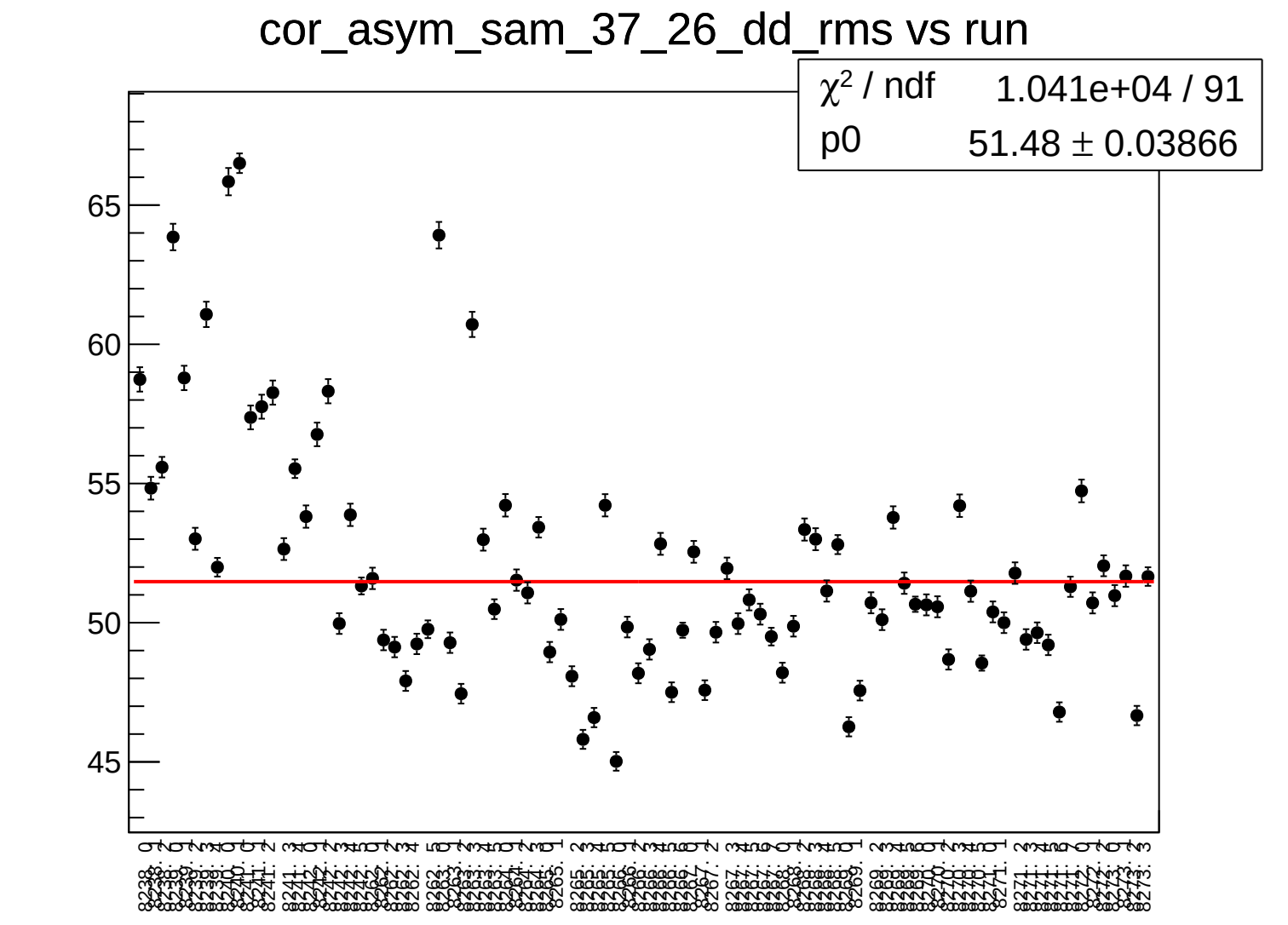

reg_asym_sam_37_26_dd_rms vs run
$\chi^2$ / ndf 1.041e+04 / 91
p0 51.48 ± 0.03866
65
60
55
50
45

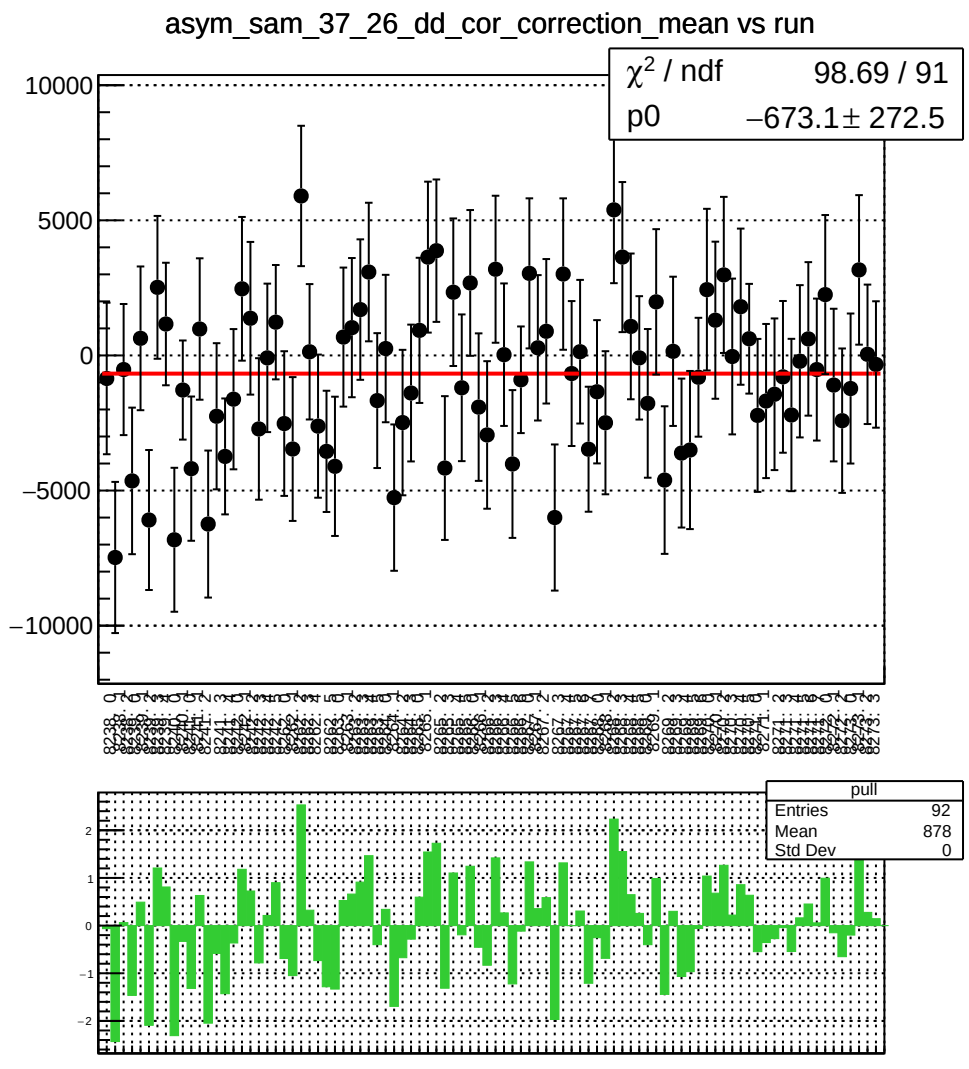

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 98.69 / 91
p0 −673.1± 272.5
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 878
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.006788
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

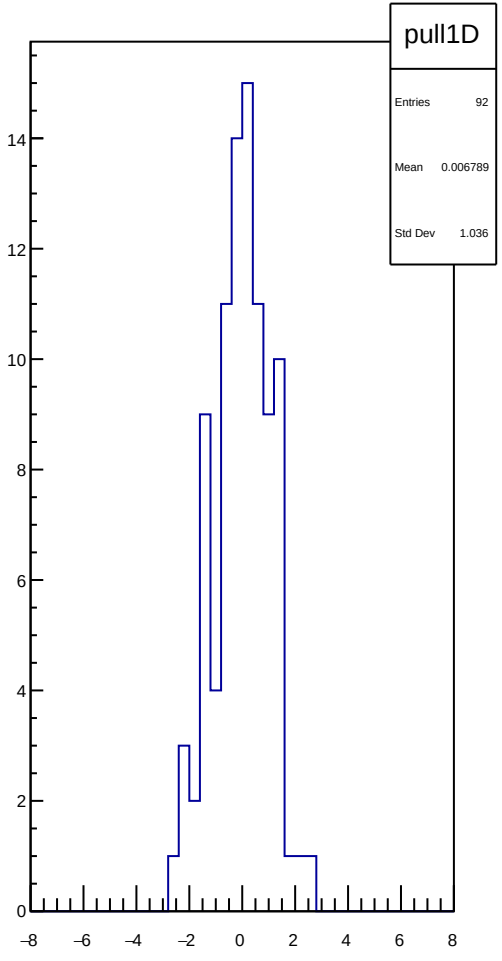

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 2343 / 91
p0 257.1 ± 0.1927
290
280
270
260
250
240

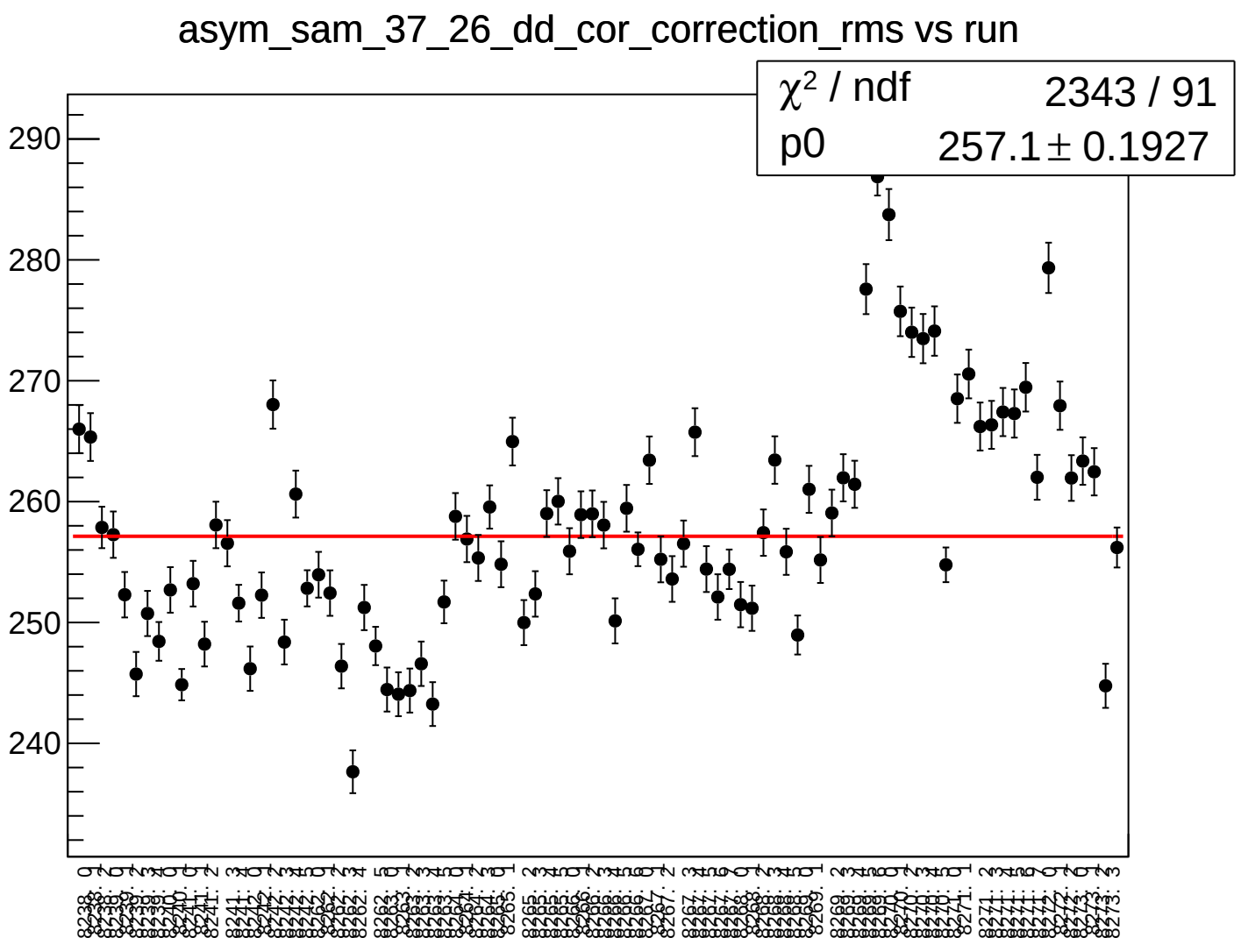

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 118.1 / 91
p0 31.07 ± 54.68
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −8.366
Std Dev 0
3
2
1
0
−1
−2
−3

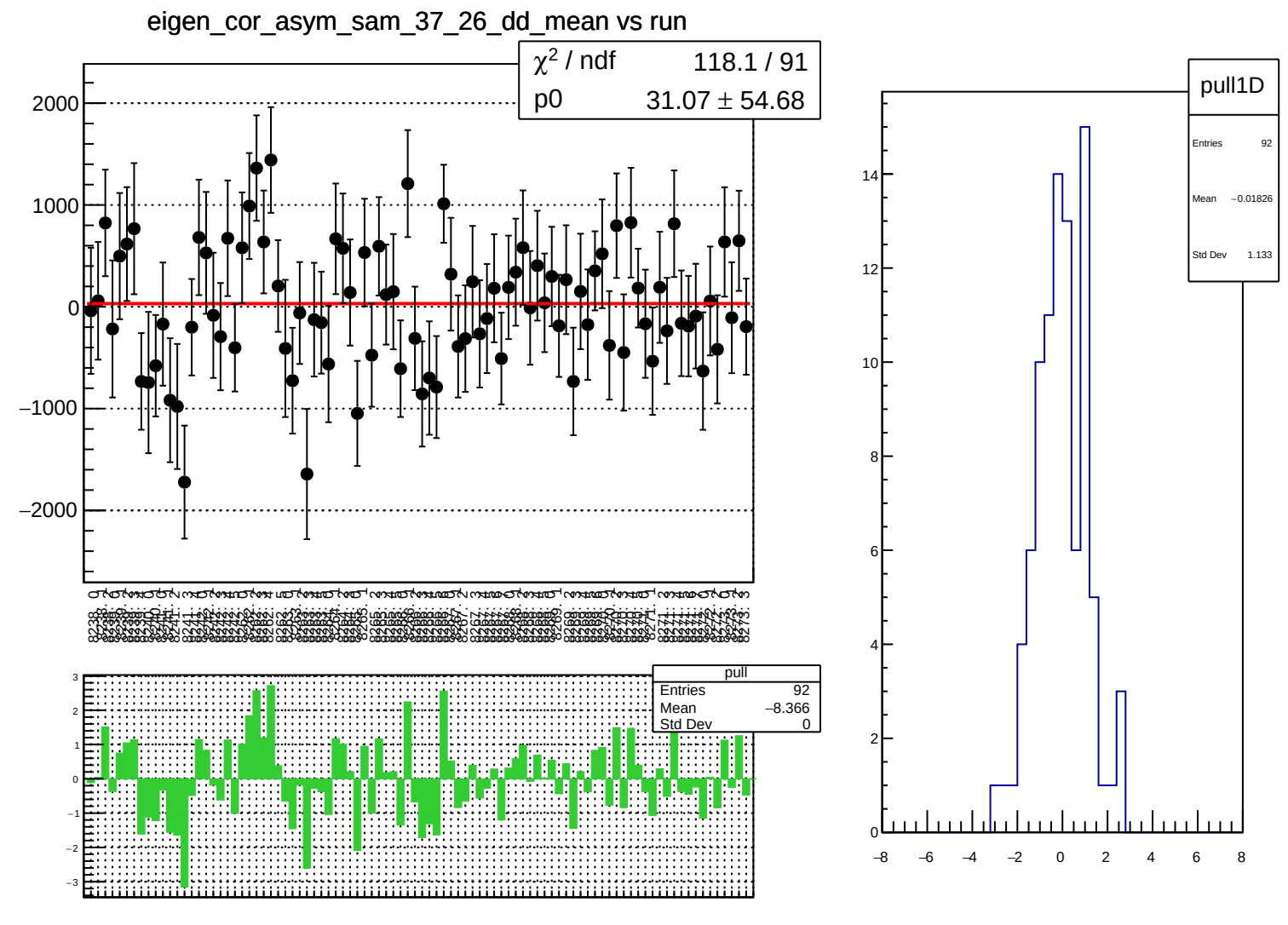

pull1D
Entries 92
Mean −0.01826
Std Dev 1.133
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

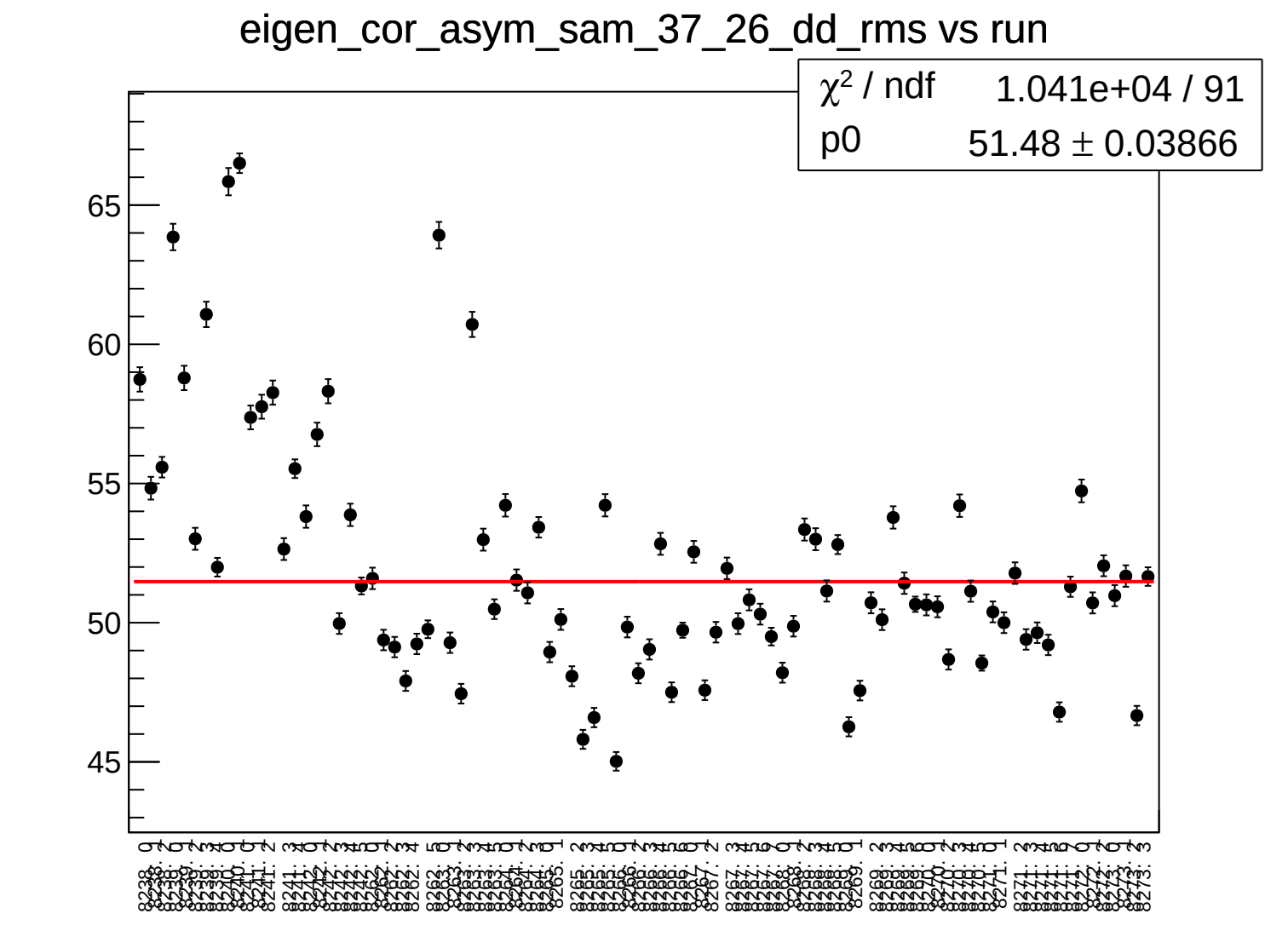

cor_asym_sam_37_26_dd_rms vs run
$\chi^2$ / ndf 1.041e+04 / 91
p0 51.48 ± 0.03866
65
60
55
50
45

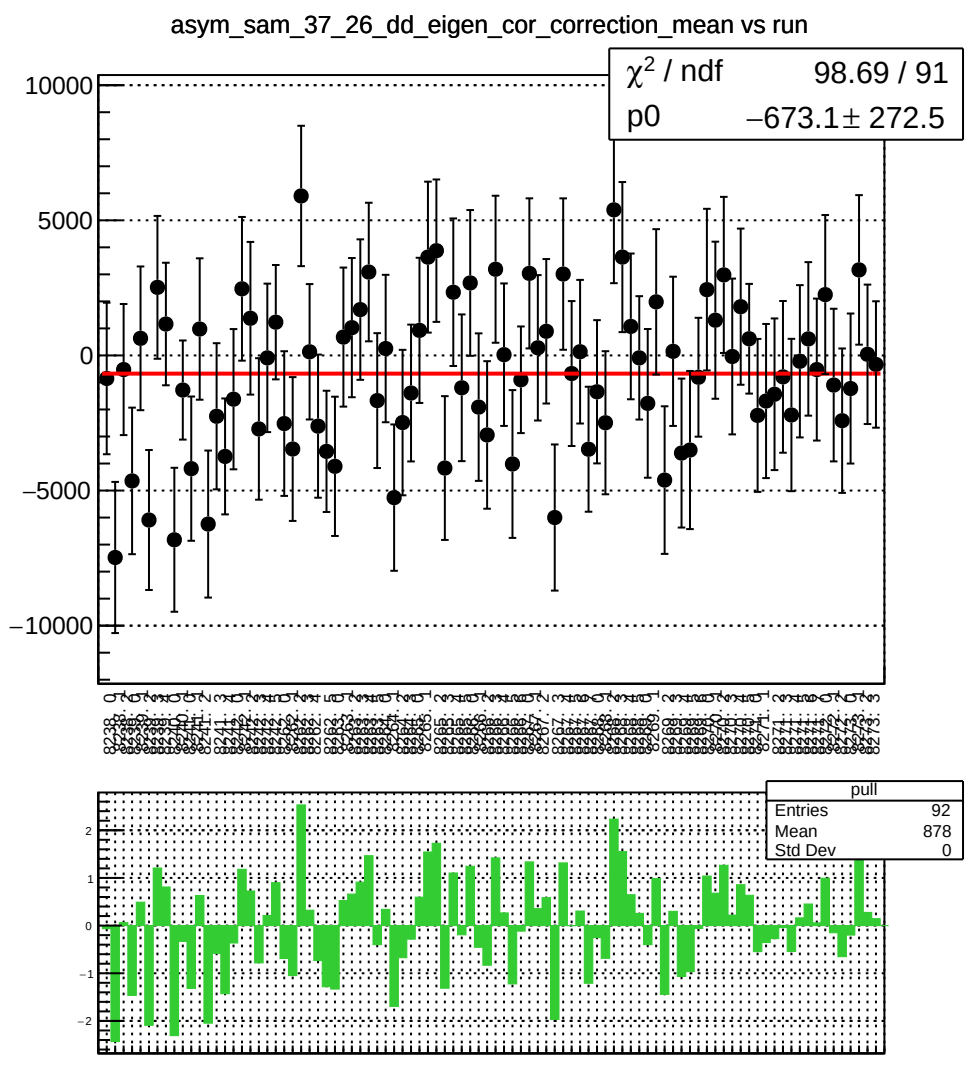

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 98.69 / 91
p0 −673.1± 272.5
pull
Entries 92
Mean 878
Std Dev 0

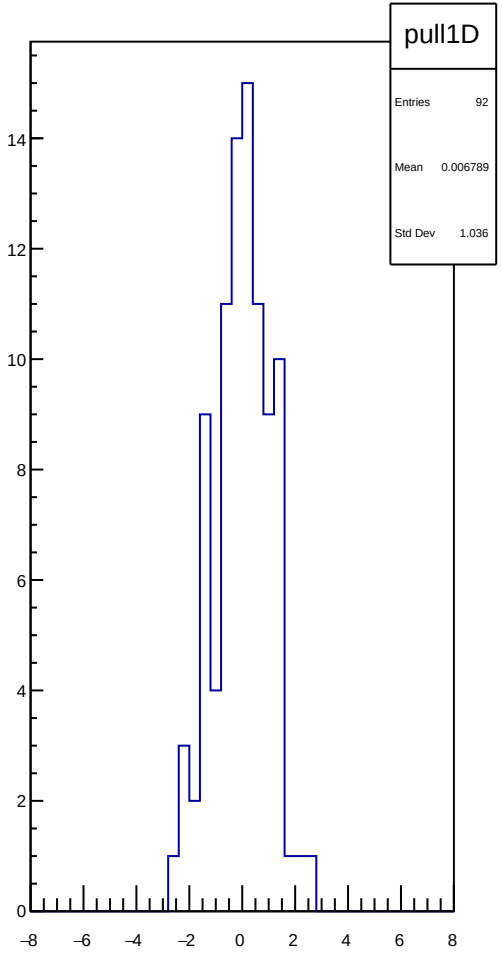

pull1D
Entries 92
Mean 0.006789
Std Dev 1.036

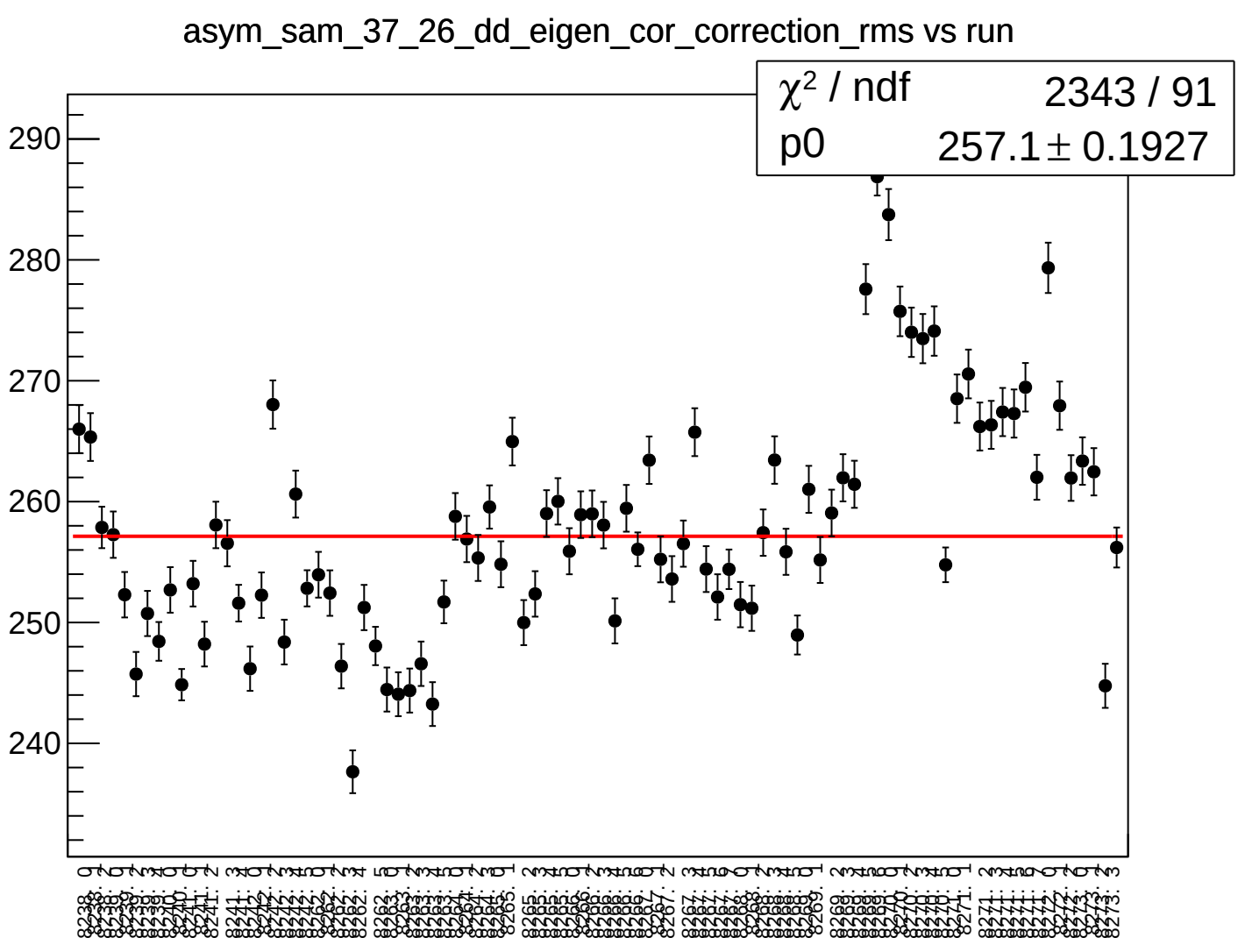

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 2343 / 91
p0 257.1 ± 0.1927
290
280
270
260
250
240

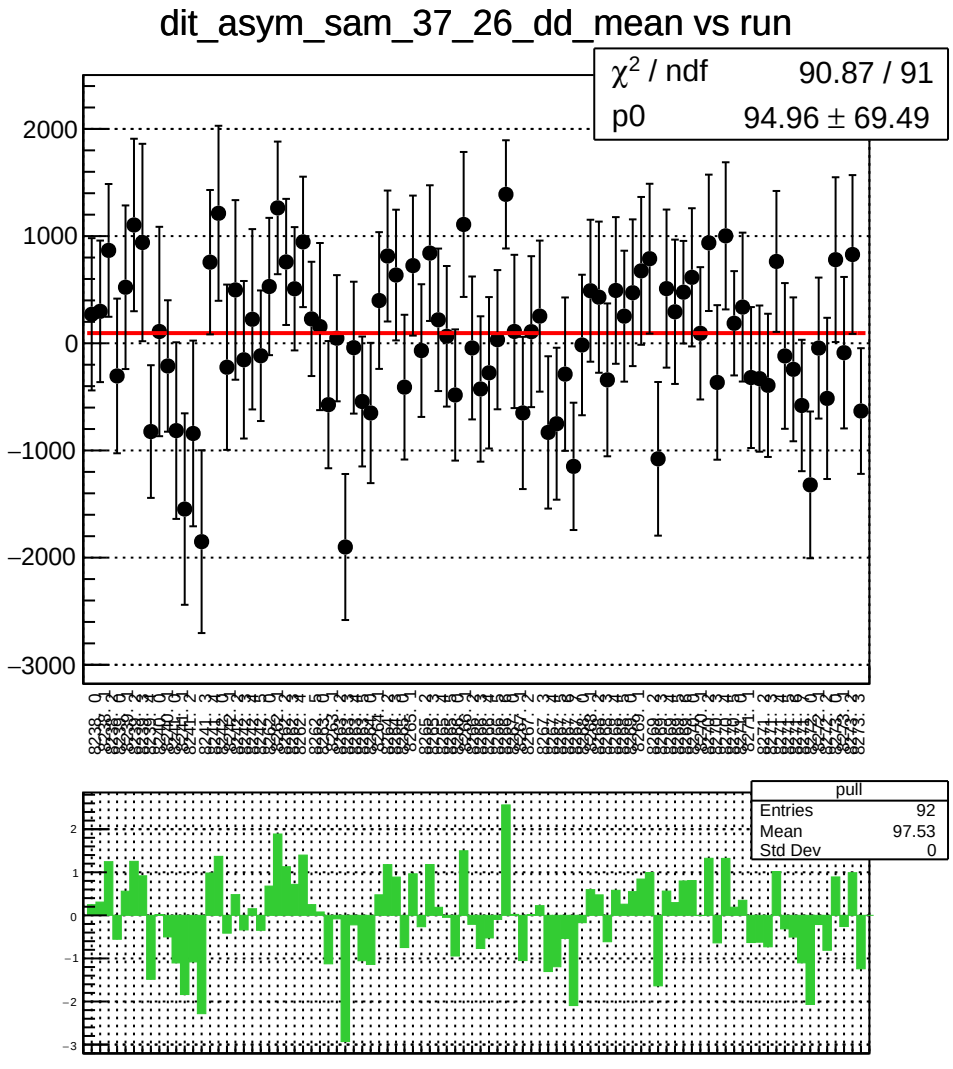

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 118.1 / 91
p0 31.07 ± 54.68
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −8.366
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.01826
Std Dev 1.133
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

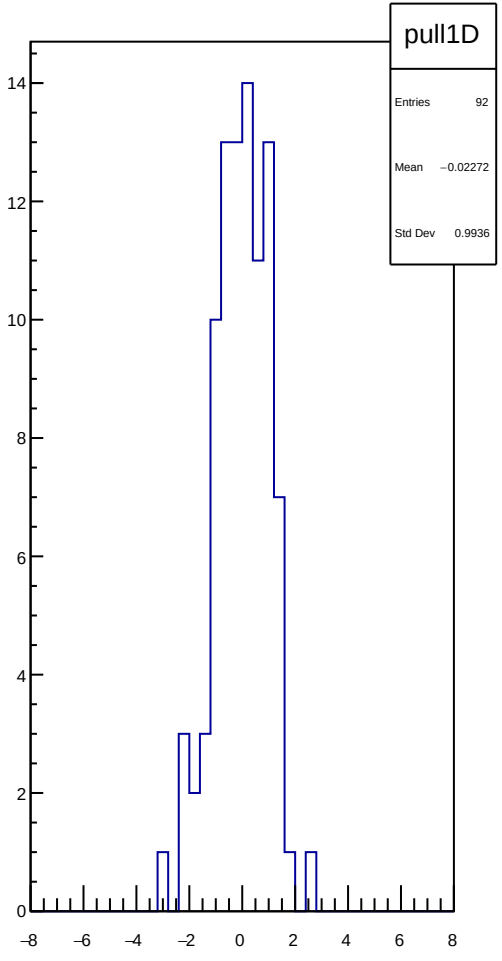

eigen_cor_asym_sam_37_26_dd_rms vs run
$\chi^2$ / ndf 1.041e+04 / 91
p0 51.48 ± 0.03866
65
60
55
50
45

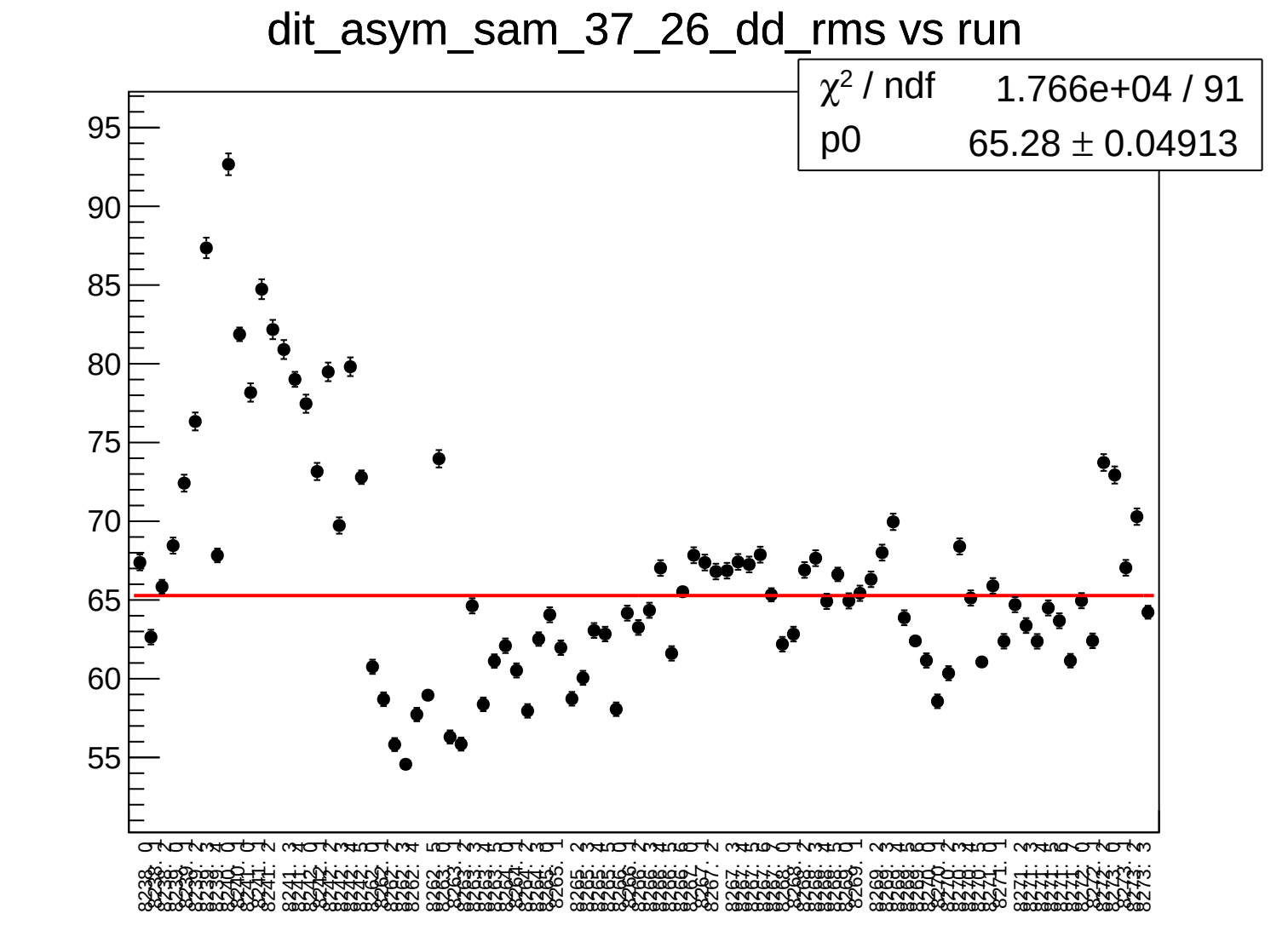

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.69 / 91
p0 −673.1± 272.5
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 878
Std Dev 0
2
1
0
−1
−2

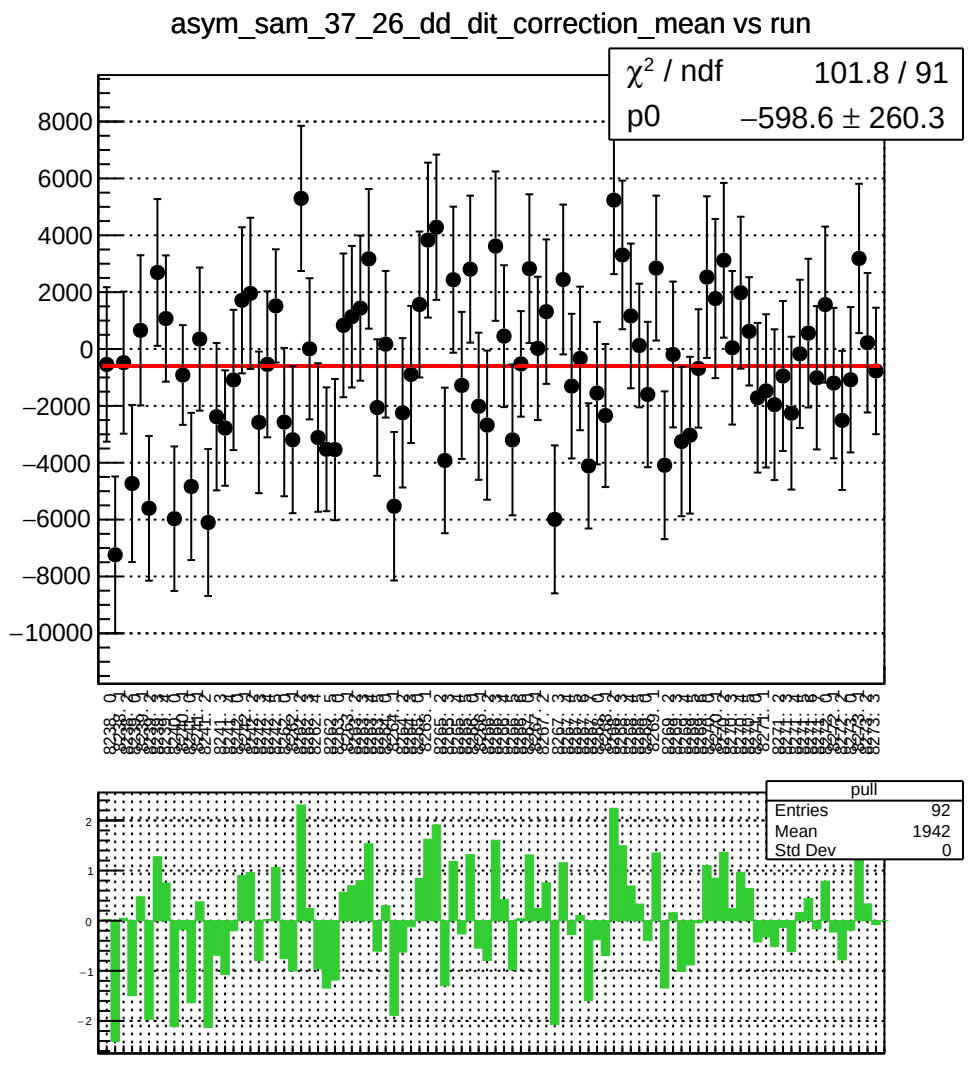

pull1D
Entries 92
Mean 0.006789
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

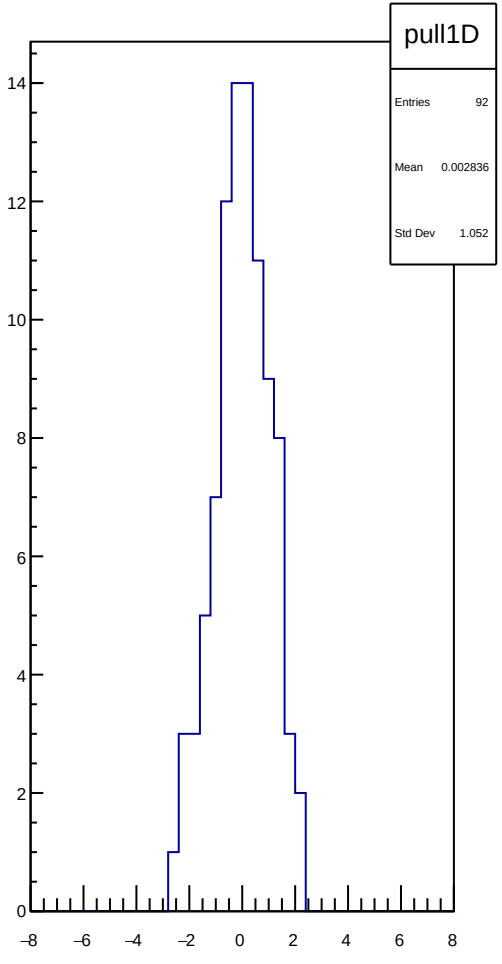

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2343 / 91
p0 257.1 ± 0.1927
290
280
270
260
250
240

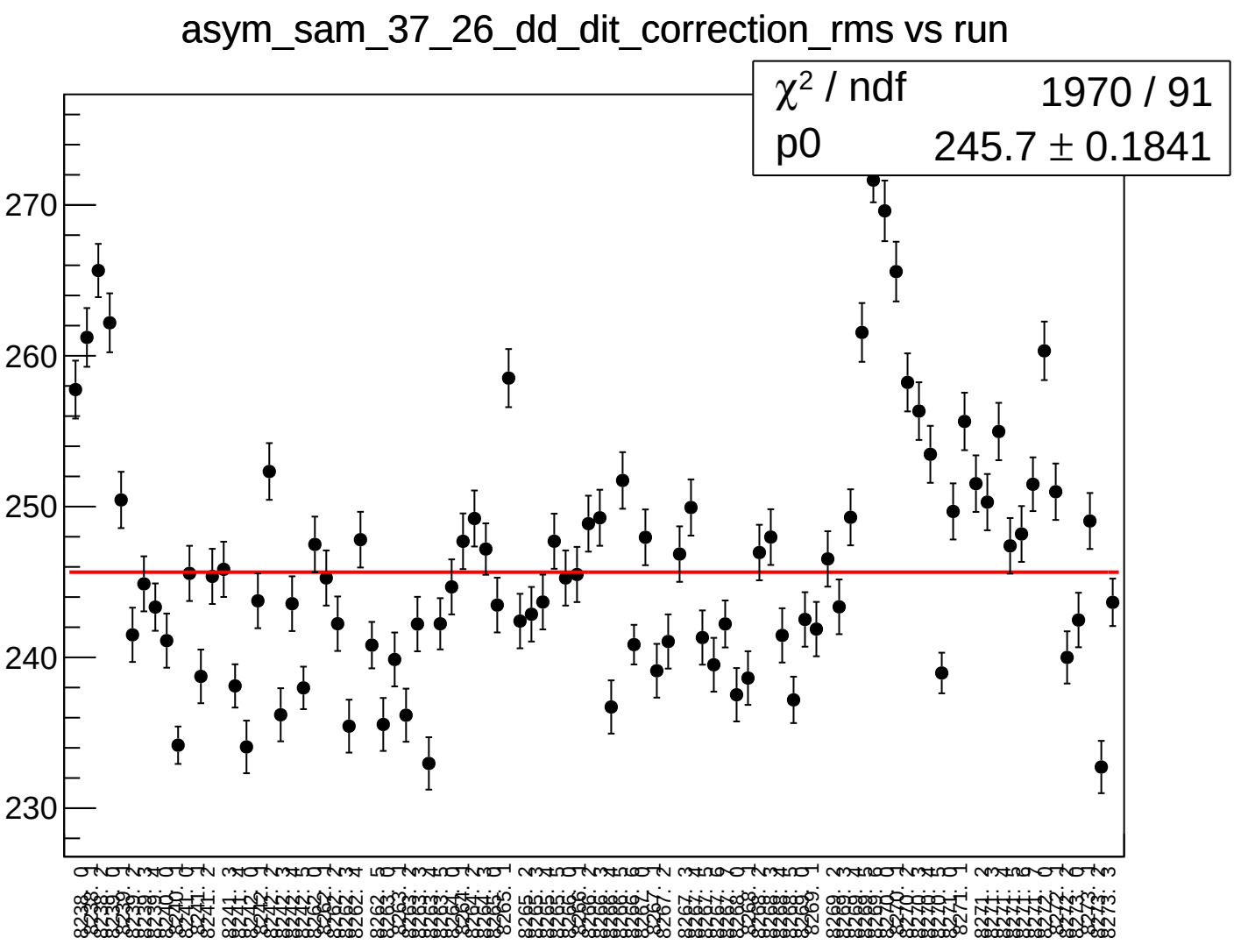

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 90.87 / 91
p0 94.96 ± 69.49
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean 97.53
Std Dev 0
2
1
0
−1
−2
−3

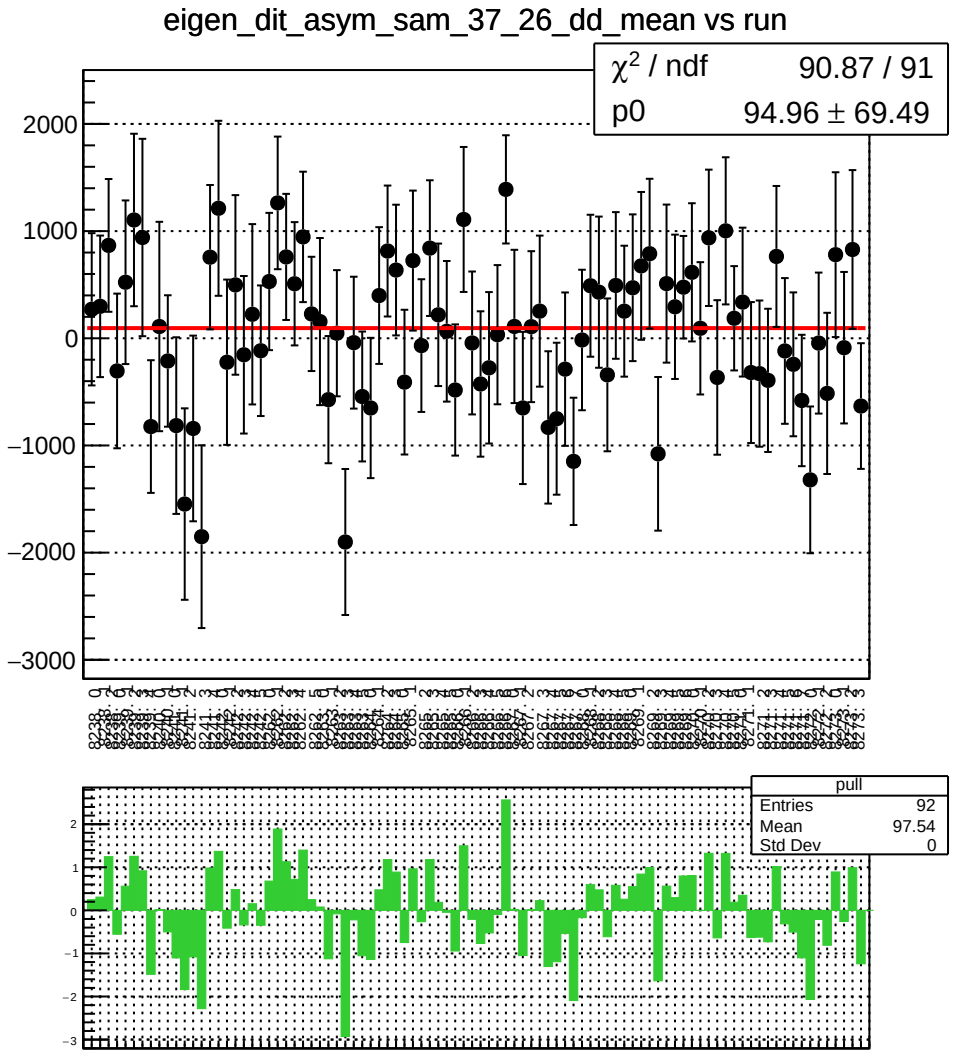

pull1D
Entries 92
Mean −0.02272
Std Dev 0.9936
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

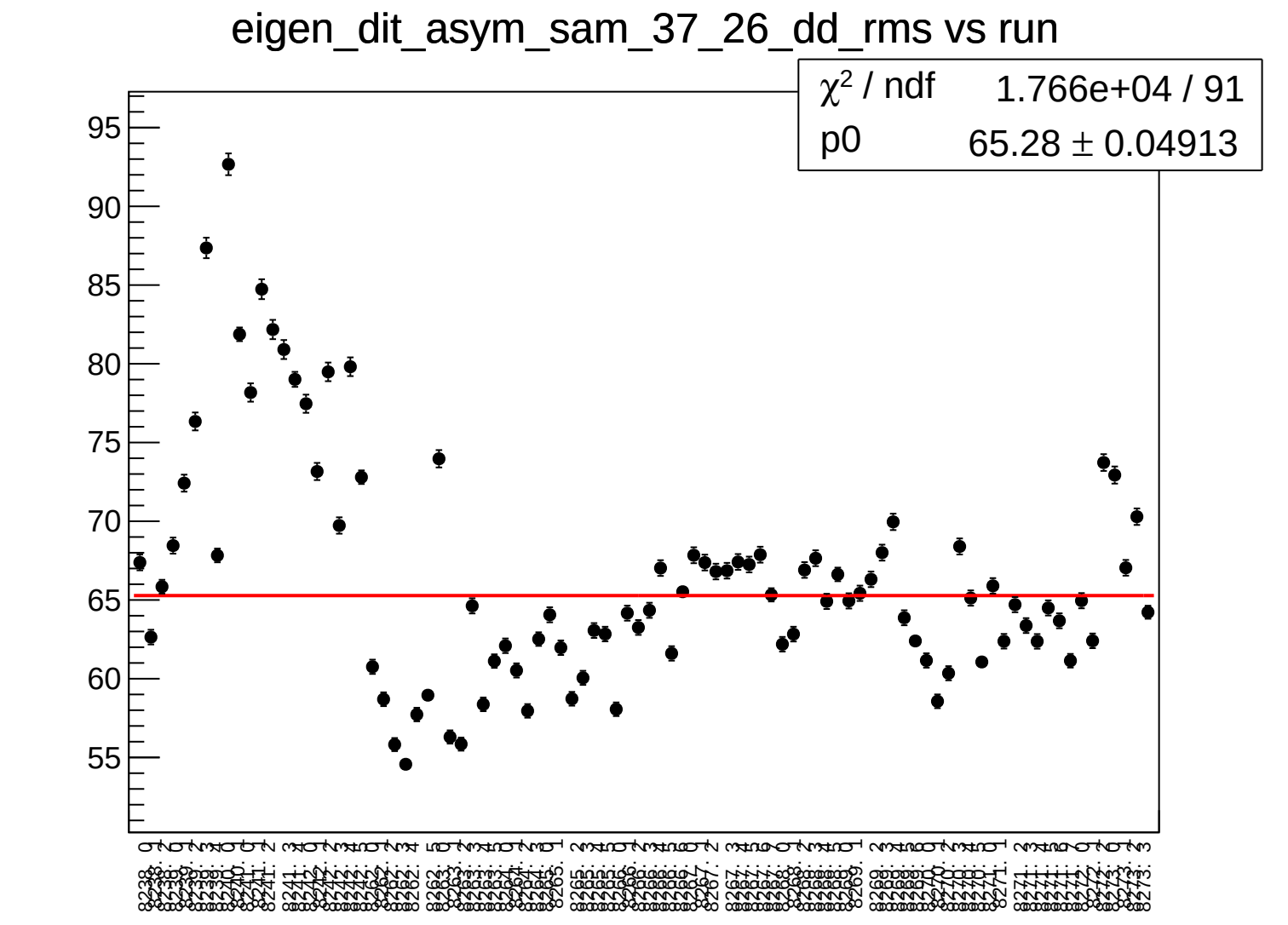

dit_asym_sam_37_26_dd_rms vs run
$\chi^2$ / ndf 1.766e+04 / 91
p0 65.28 ± 0.04913
95
90
85
80
75
70
65
60
55

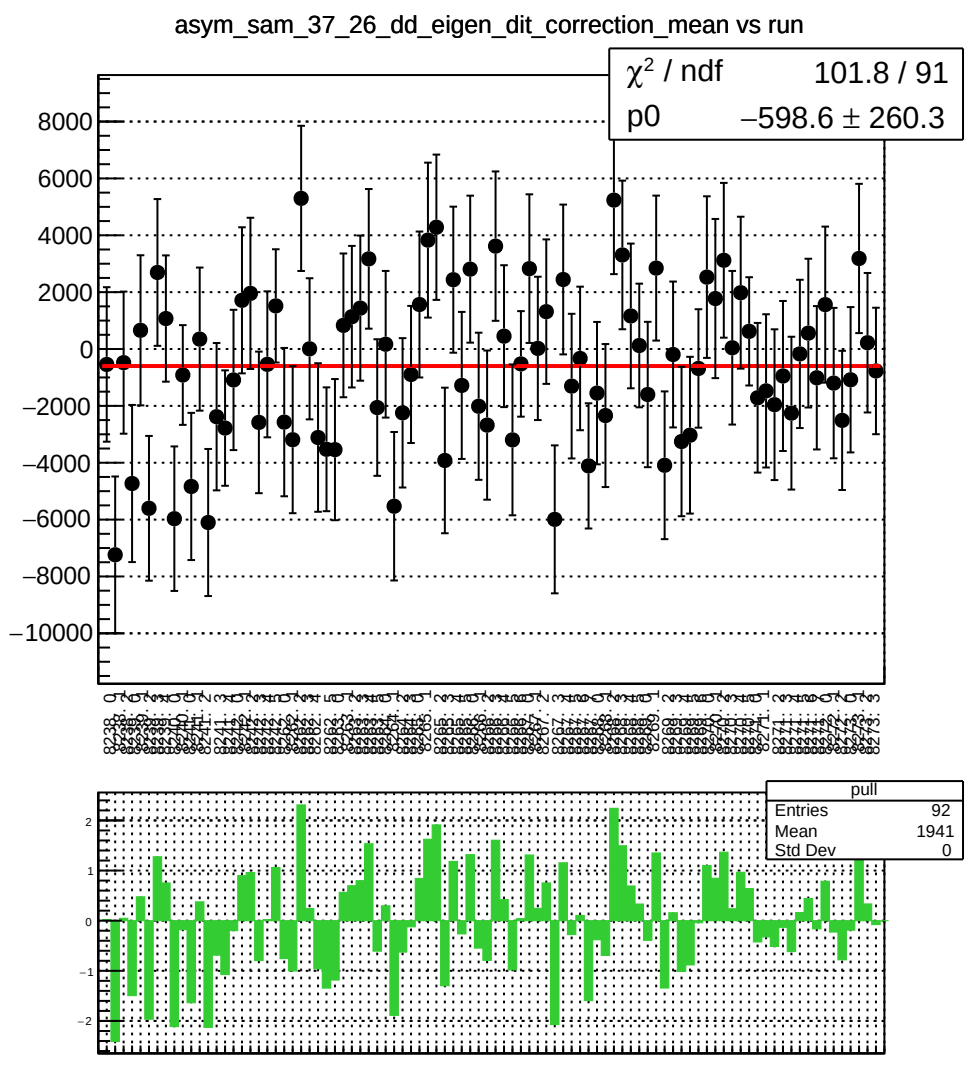

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 101.8 / 91
p0 −598.6 ± 260.3
pull
Entries 92
Mean 1942
Std Dev 0

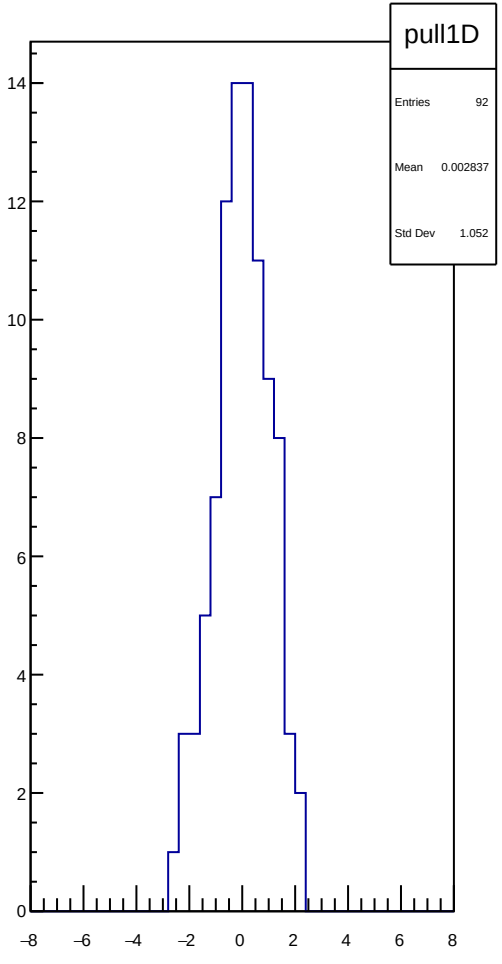

pull1D
Entries 92
Mean 0.002836
Std Dev 1.052

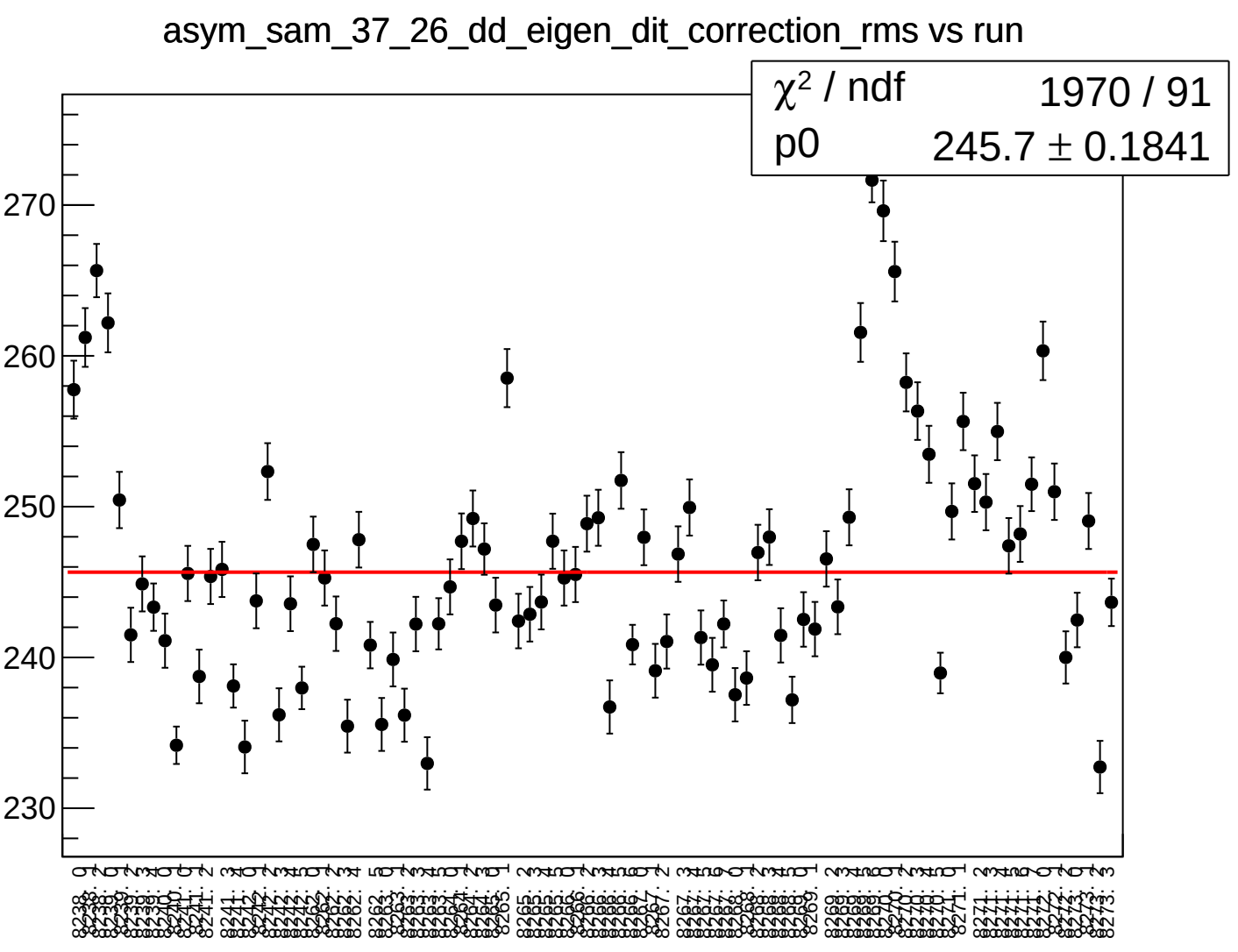

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 1970 / 91
p0 245.7 ± 0.1841
270
260
250
240
230

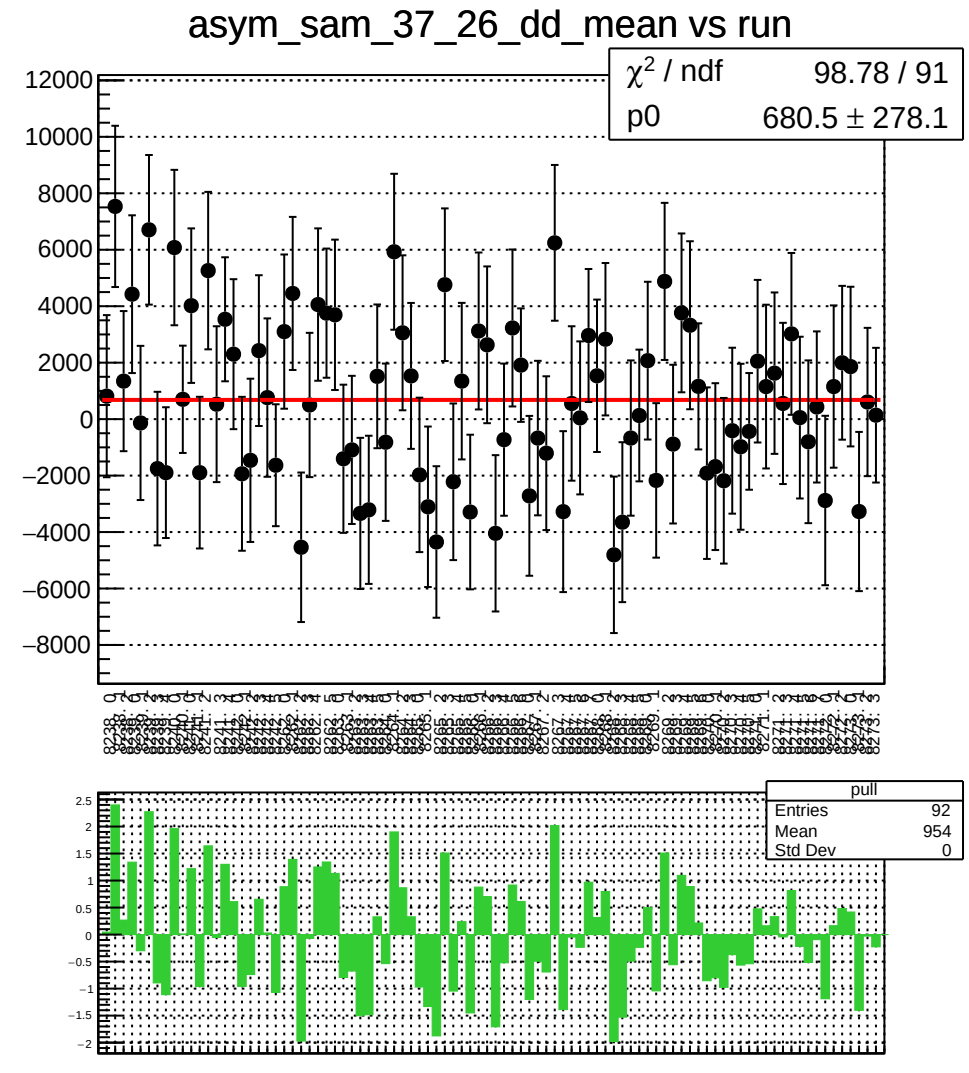

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 90.87 / 91
p0 94.96 ± 69.49
pull
Entries 92
Mean 97.54
Std Dev 0
pull1D
Entries 92
Mean −0.02272
Std Dev 0.9936

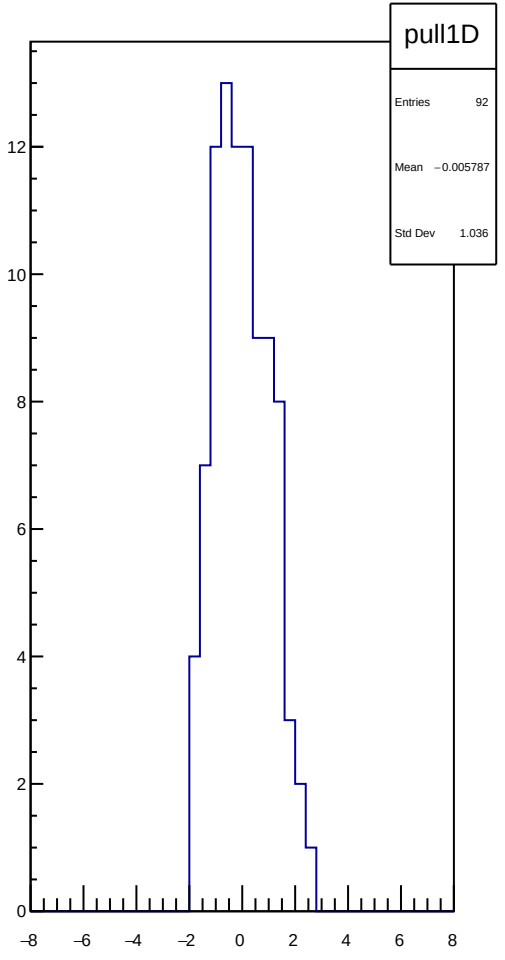

eigen_dit_asym_sam_37_26_dd_rms vs run
$\chi^2$ / ndf 1.766e+04 / 91
p0 65.28 ± 0.04913
95
90
85
80
75
70
65
60
55

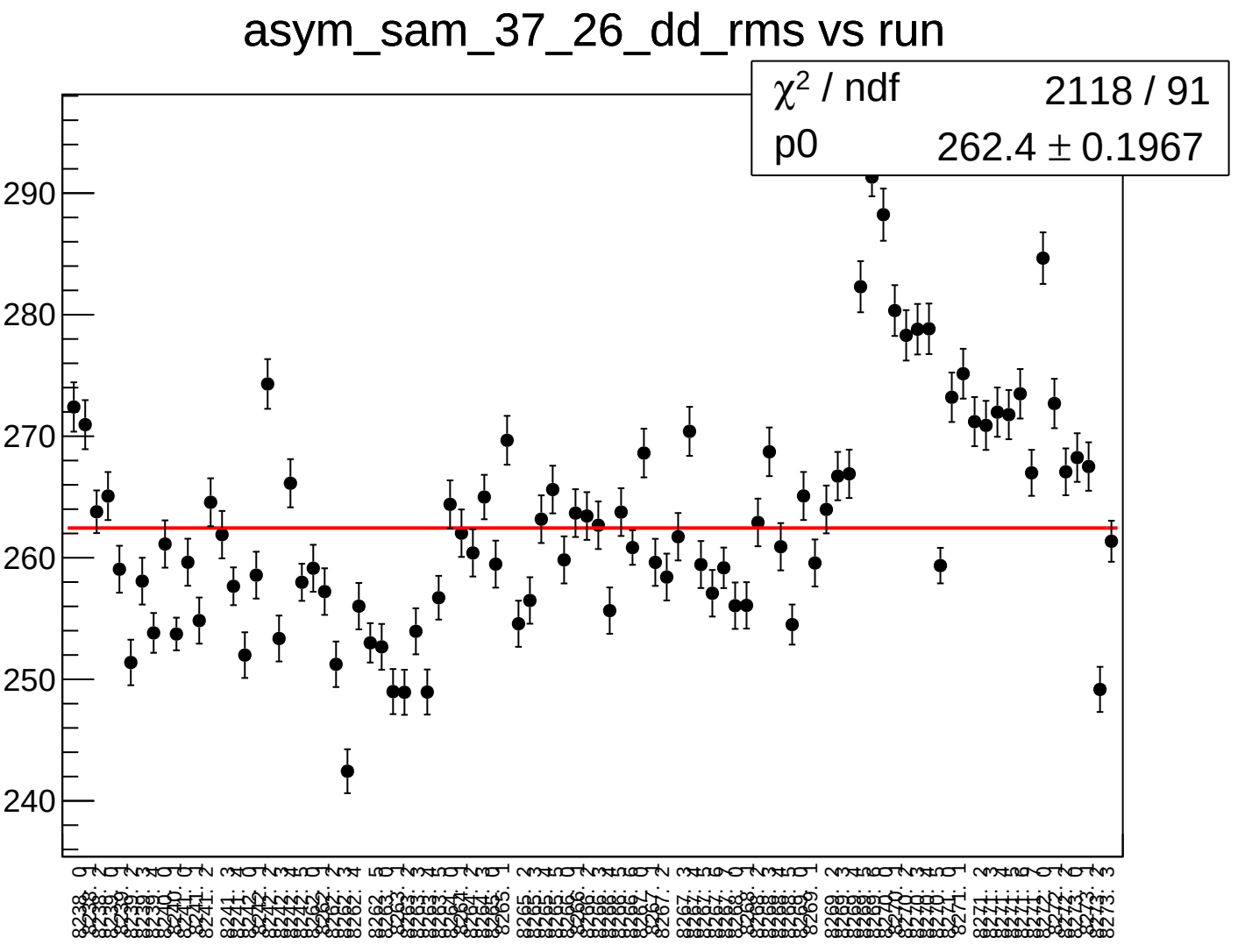

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 101.8 / 91
p0 −598.6 ± 260.3
pull
Entries 92
Mean 1941
Std Dev 0

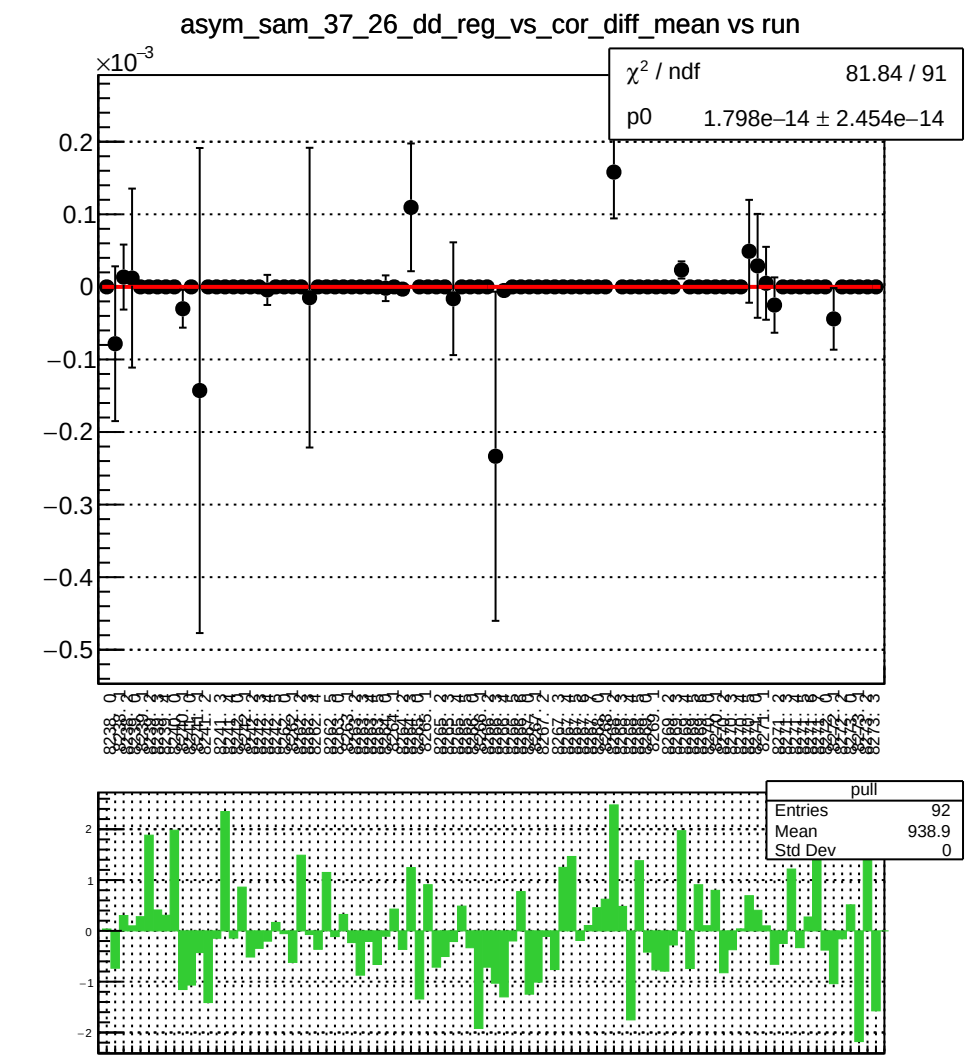

pull1D
Entries 92
Mean 0.002837
Std Dev 1.052

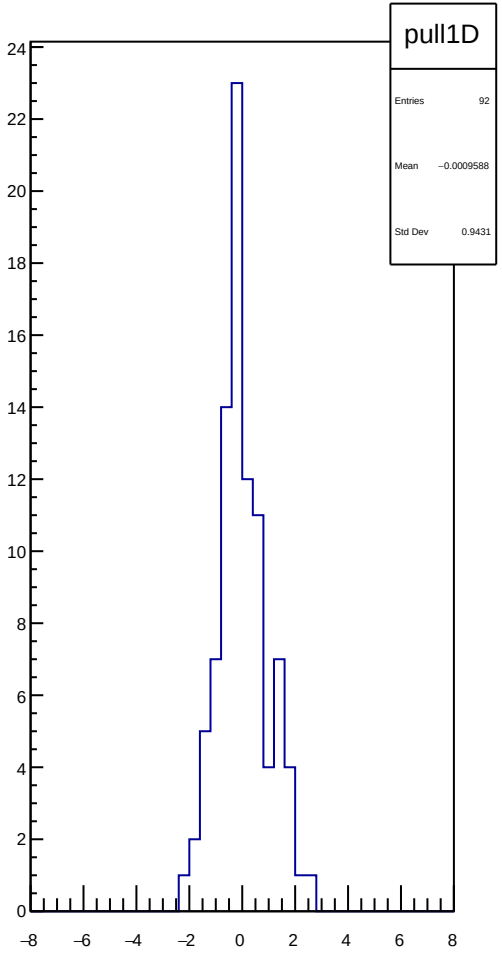

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1970 / 91
p0 245.7 ± 0.1841
270
260
250
240
230

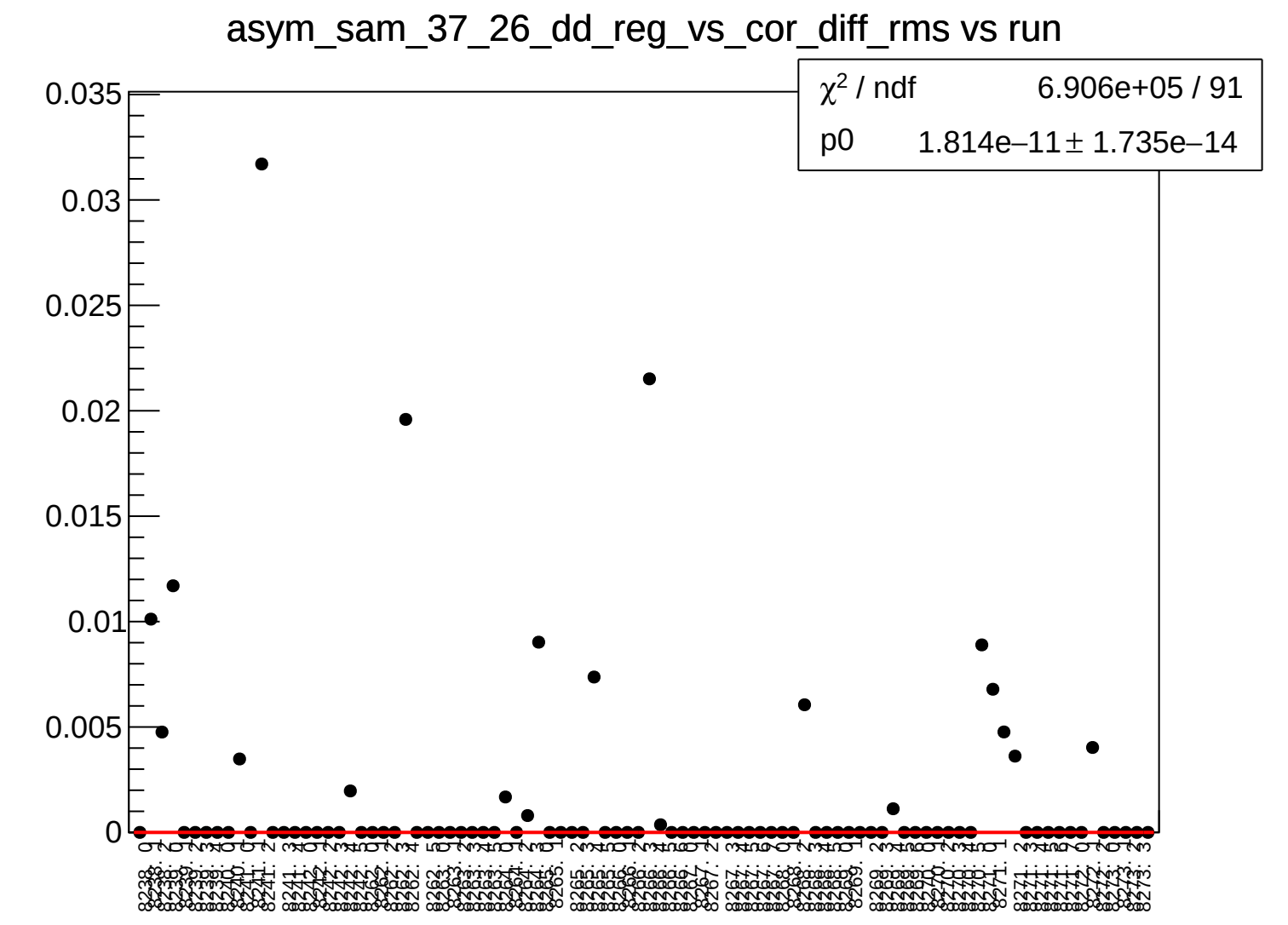

asym_sam_37_26_dd_mean vs run
χ² / ndf 98.78 / 91
p0 680.5 ± 278.1
pull
Entries 92
Mean 954
Std Dev 0

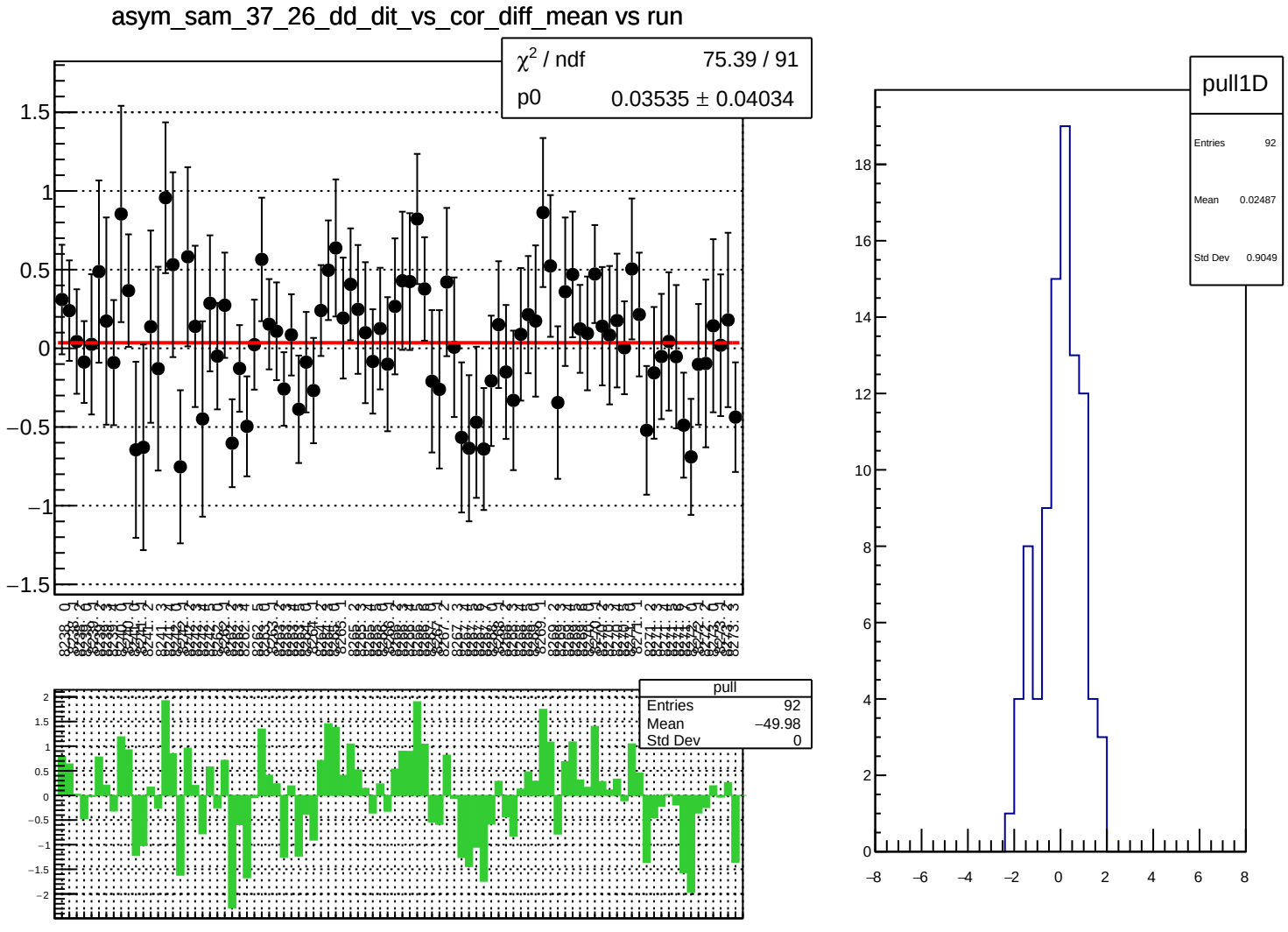

pull1D
Entries 92
Mean −0.005787
Std Dev 1.036

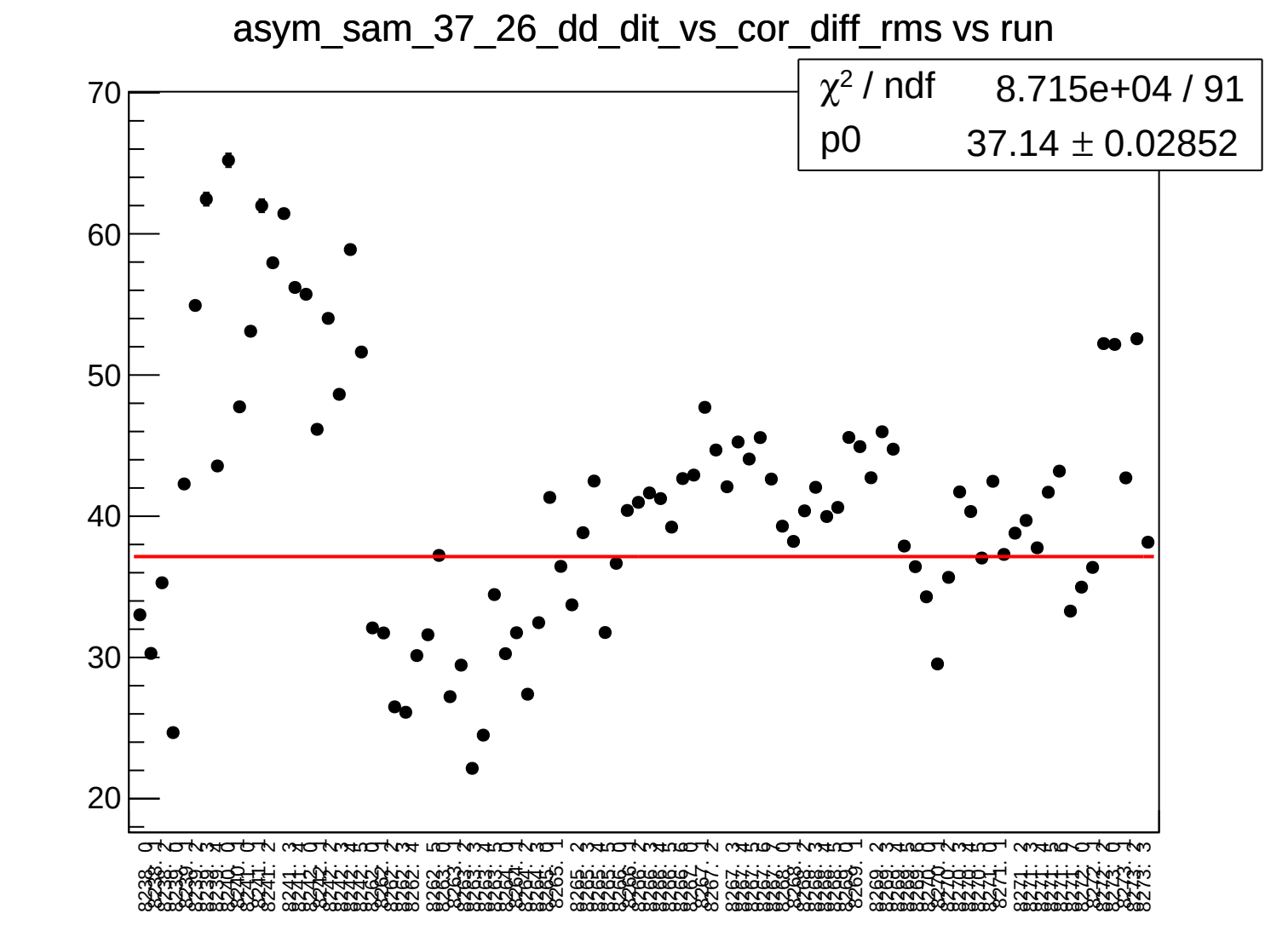

asym_sam_37_26_dd_rms vs run
χ² / ndf 2118 / 91
p0 262.4 ± 0.1967
290
280
270
260
250
240

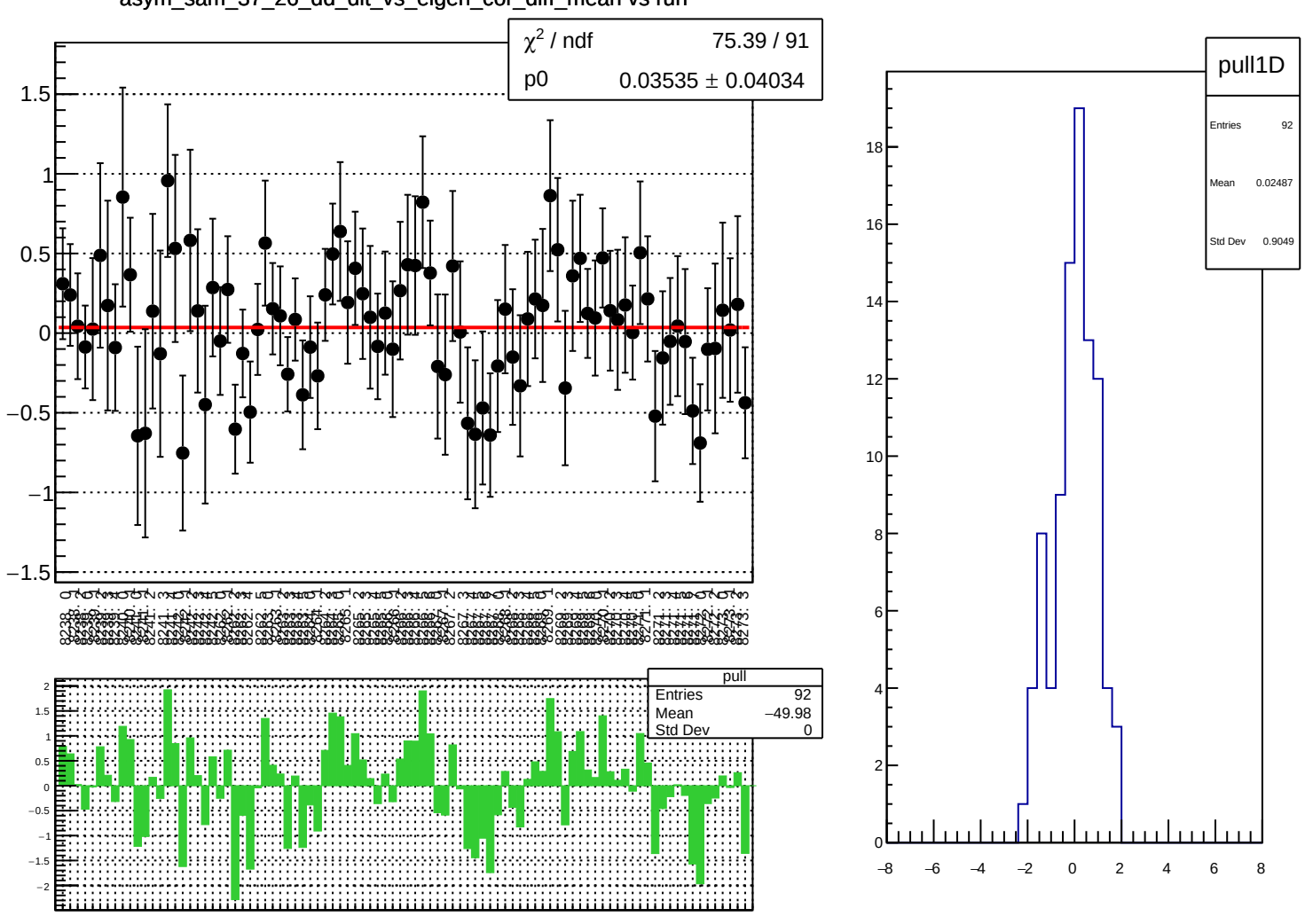

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 81.84 / 91
p0 1.798e−14 ± 2.454e−14
pull
Entries 92
Mean 938.9
Std Dev 0

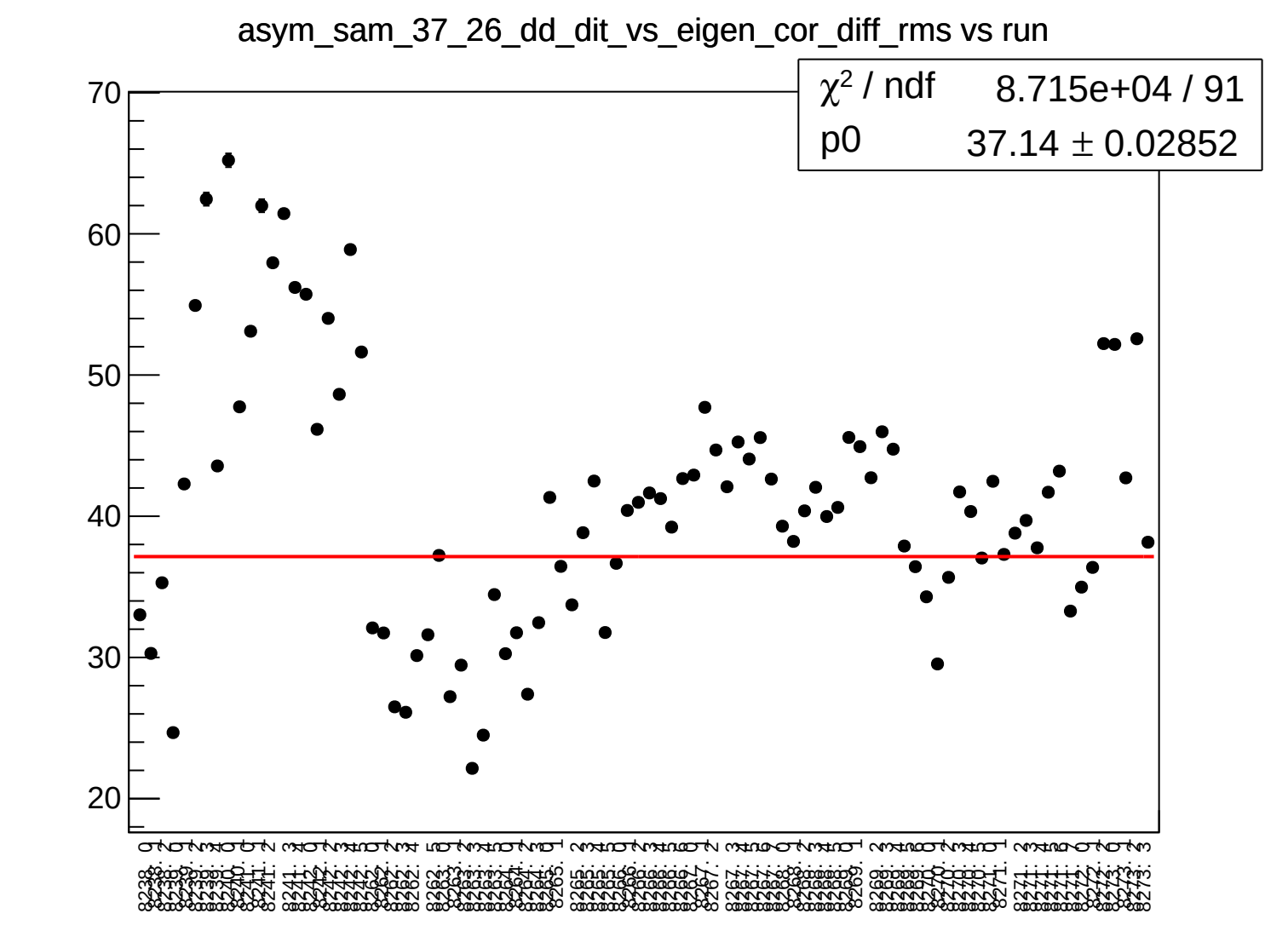

pull1D
Entries 92
Mean −0.0009588
Std Dev 0.9431

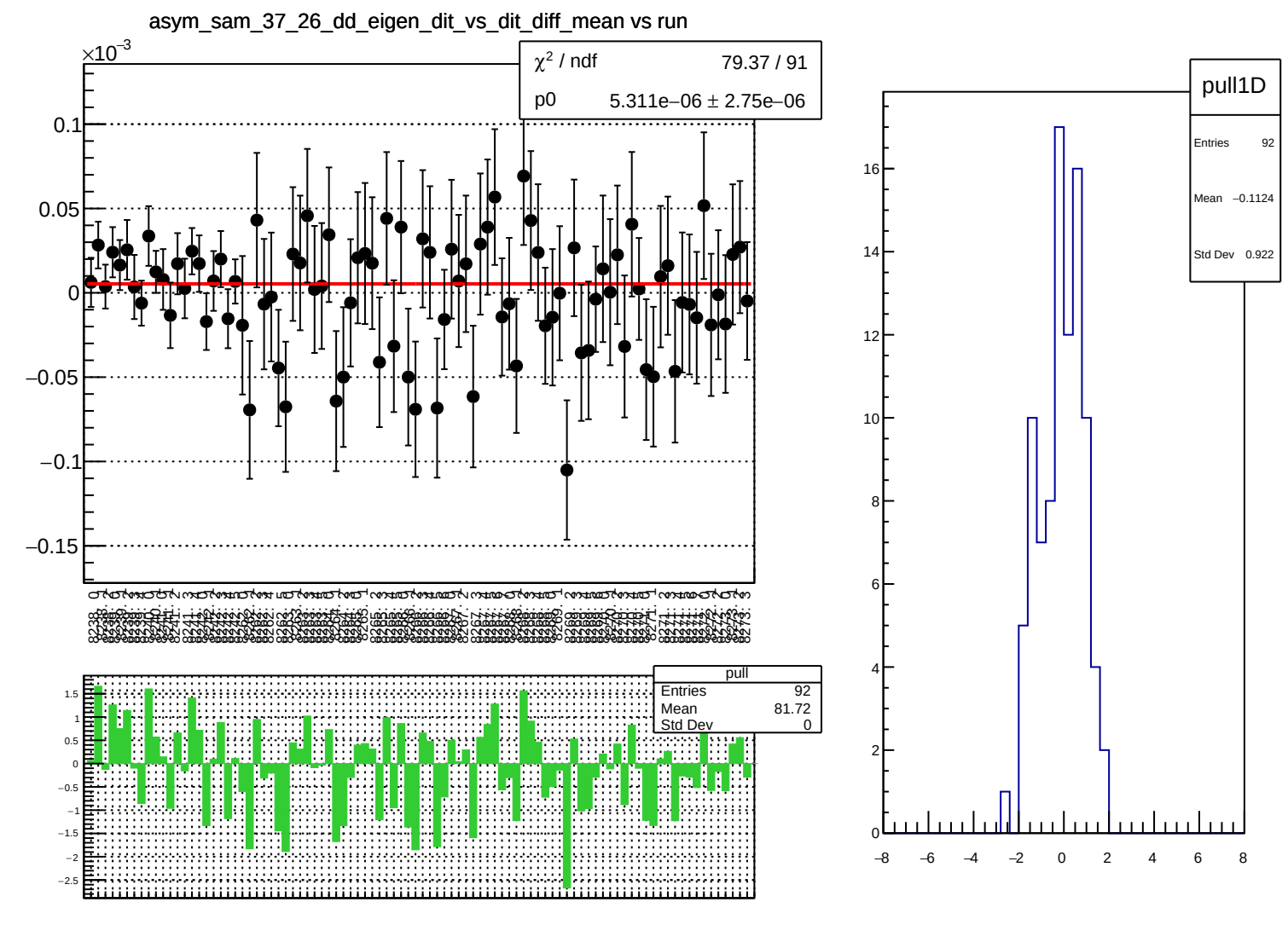

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.906e+05 / 91
p0 1.814e−11 ± 1.735e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

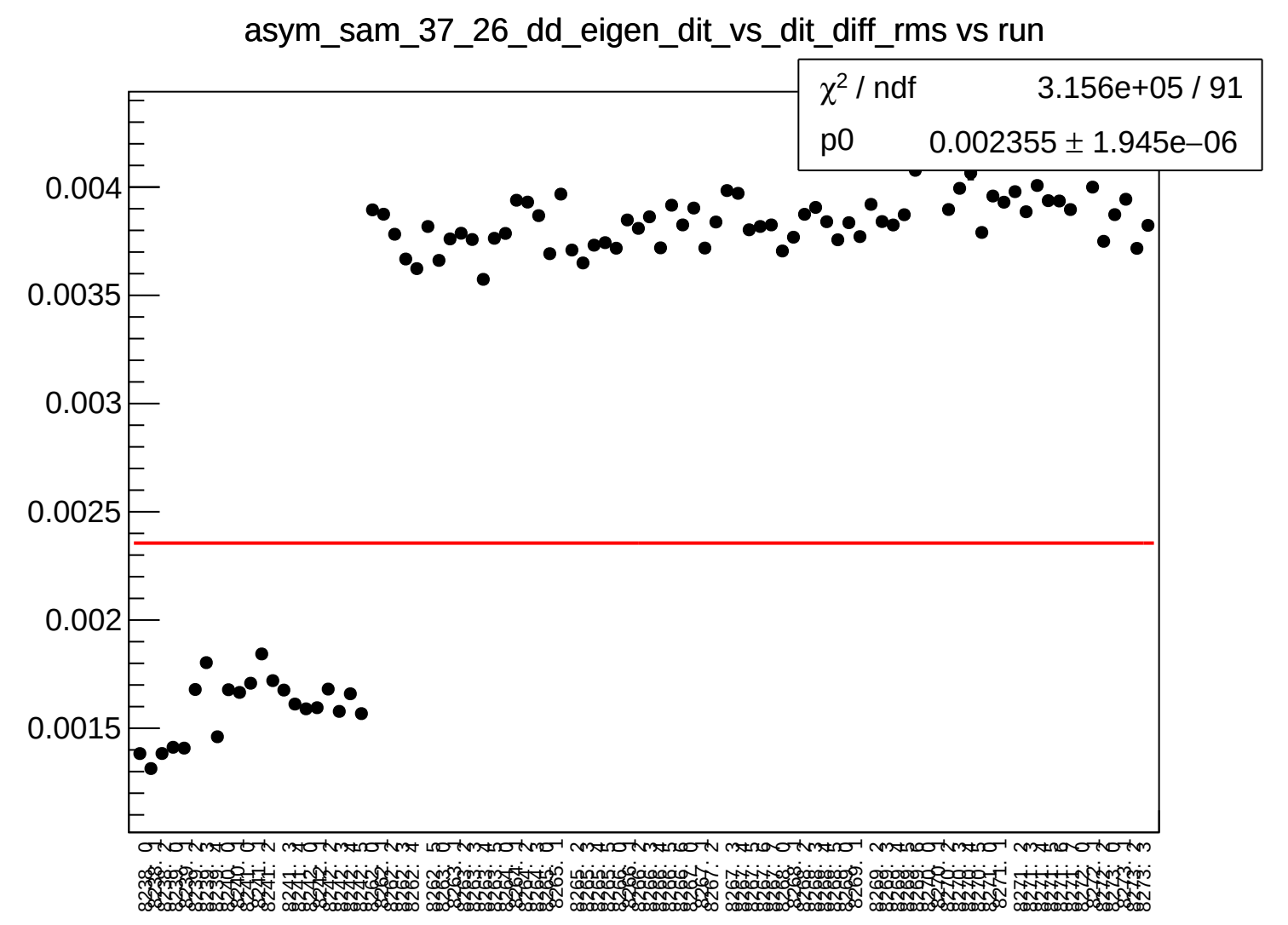

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.39 / 91
p0 0.03535 ± 0.04034
pull
Entries 92
Mean −49.98
Std Dev 0
pull1D
Entries 92
Mean 0.02487
Std Dev 0.9049

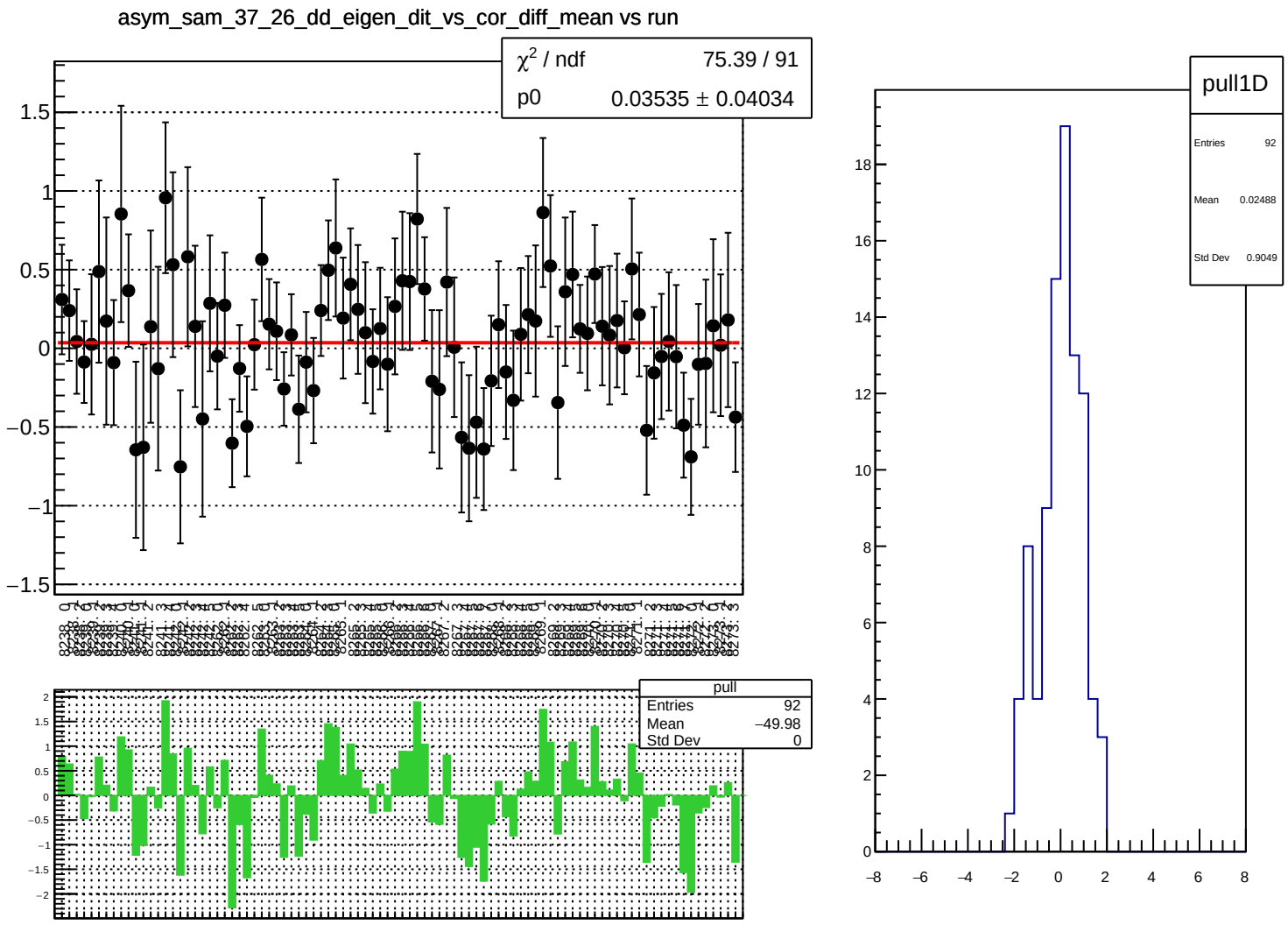

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.715e+04 / 91
p0 37.14 ± 0.02852
70
60
50
40
30
20

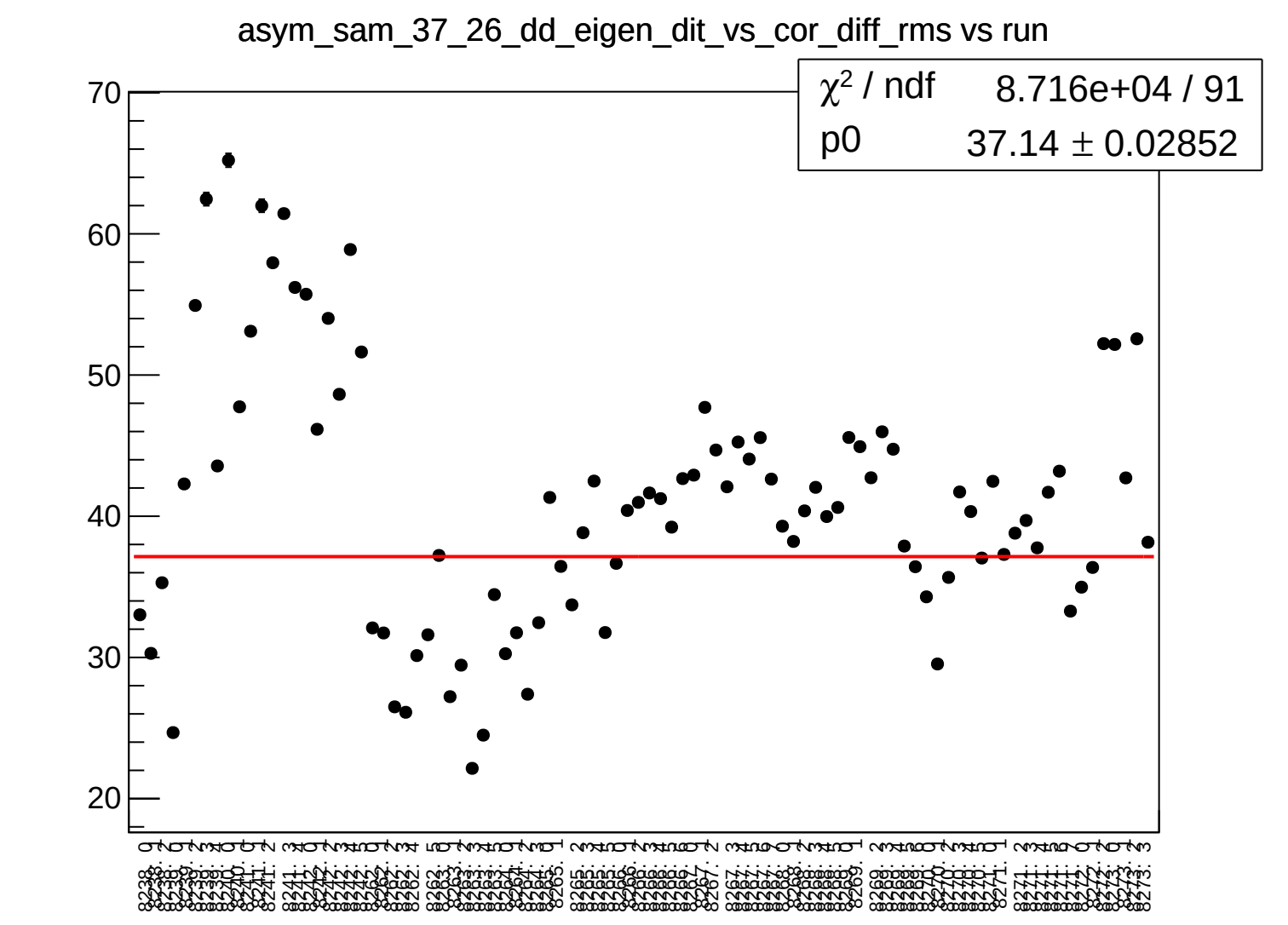

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.39 / 91
p0 0.03535 ± 0.04034
pull
Entries 92
Mean −49.98
Std Dev 0
pull1D
Entries 92
Mean 0.02487
Std Dev 0.9049

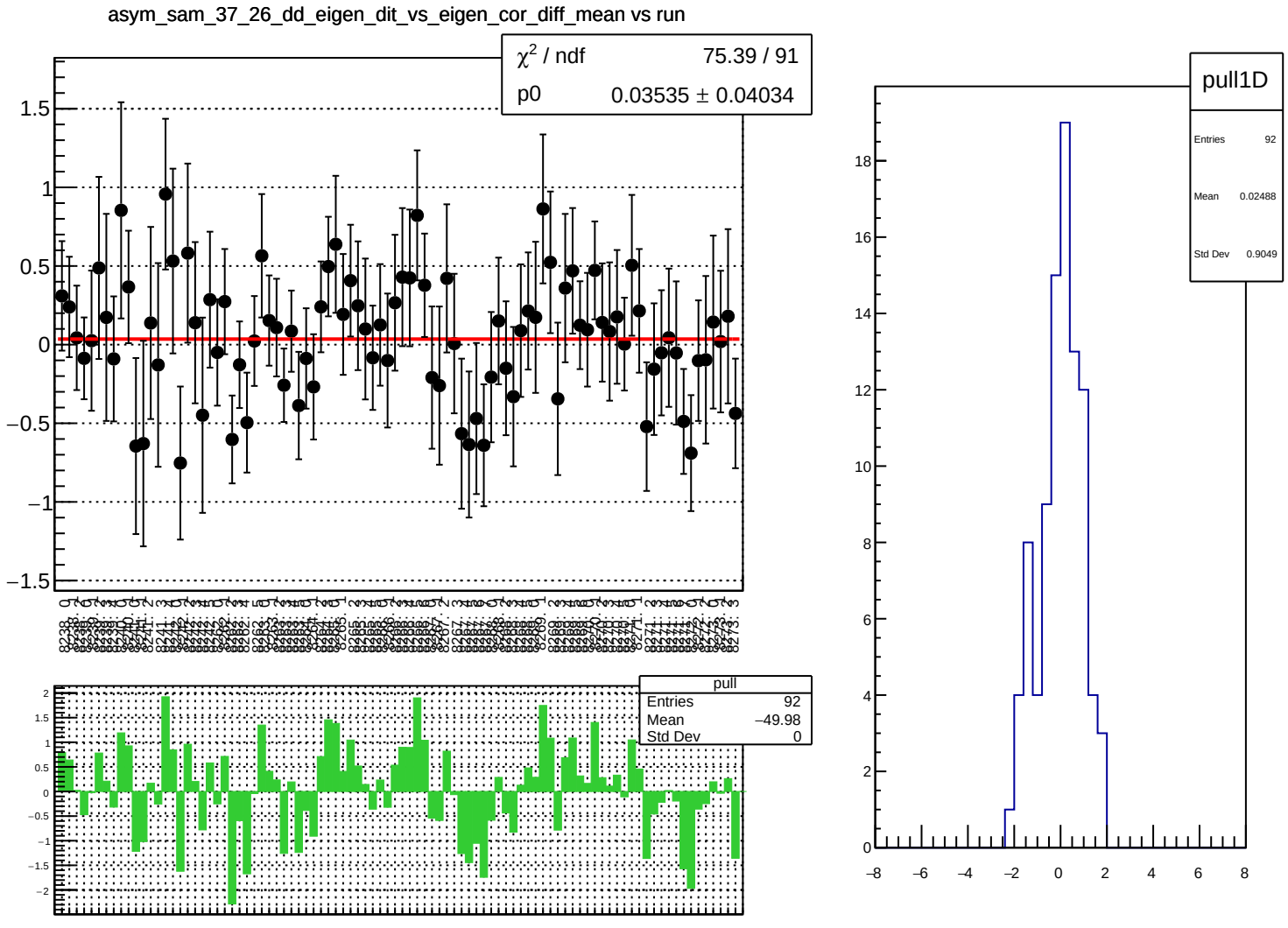

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.715e+04 / 91
p0 37.14 ± 0.02852
70
60
50
40
30
20

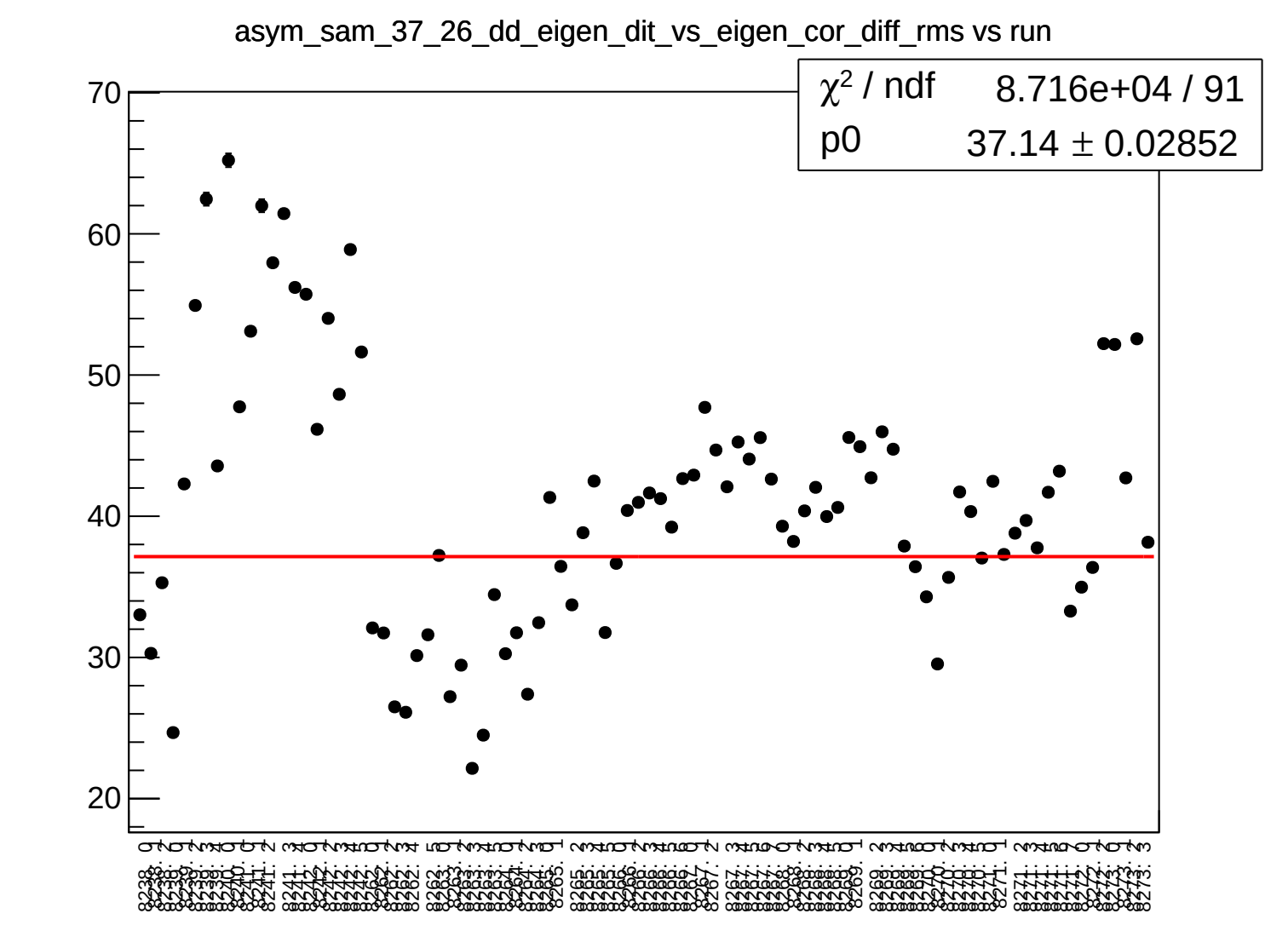

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 79.37 / 91
p0 5.311e−06 ± 2.75e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean 81.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 92
Mean −0.1124
Std Dev 0.922
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

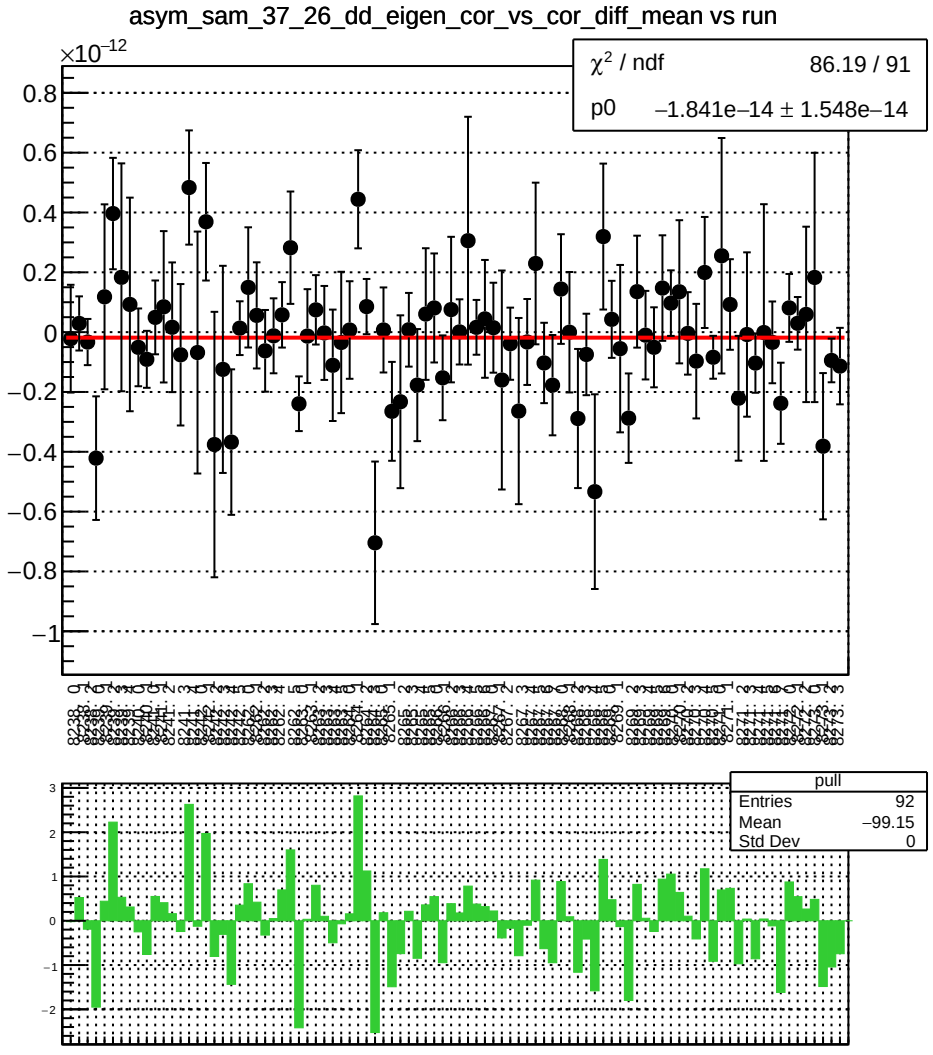

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.156e+05 / 91
p0 0.002355 ± 1.945e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

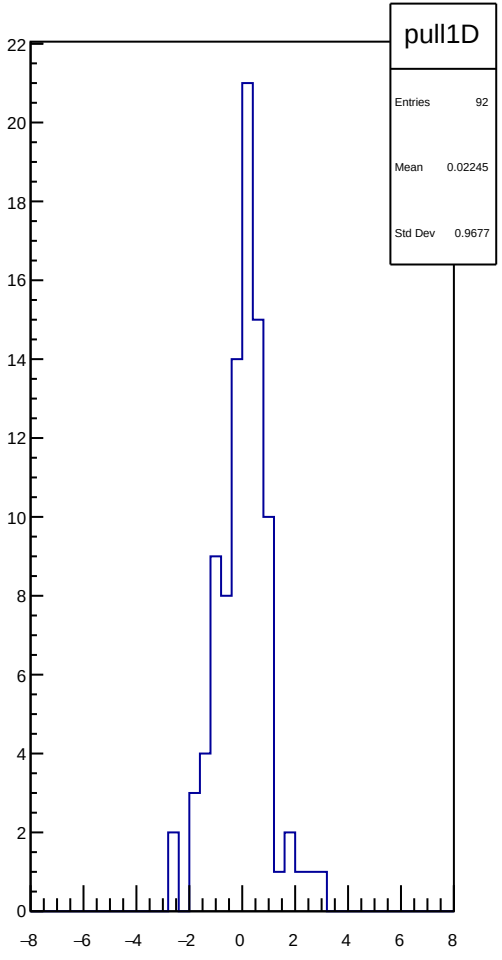

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.39 / 91
p0 0.03535 ± 0.04034
pull
Entries 92
Mean −49.98
Std Dev 0
pull1D
Entries 92
Mean 0.02488
Std Dev 0.9049

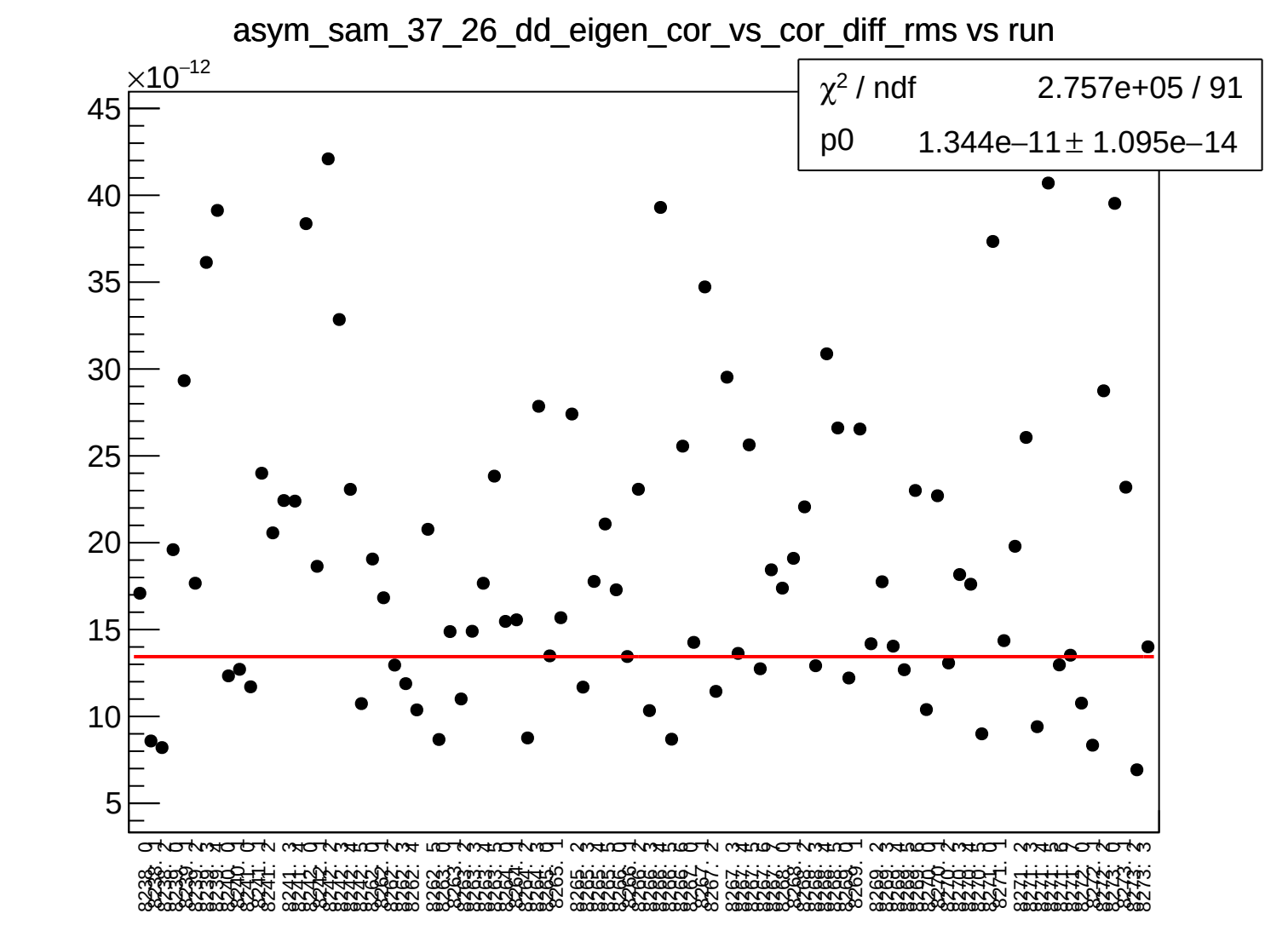

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.716e+04 / 91
p0 37.14 ± 0.02852
70
60
50
40
30
20

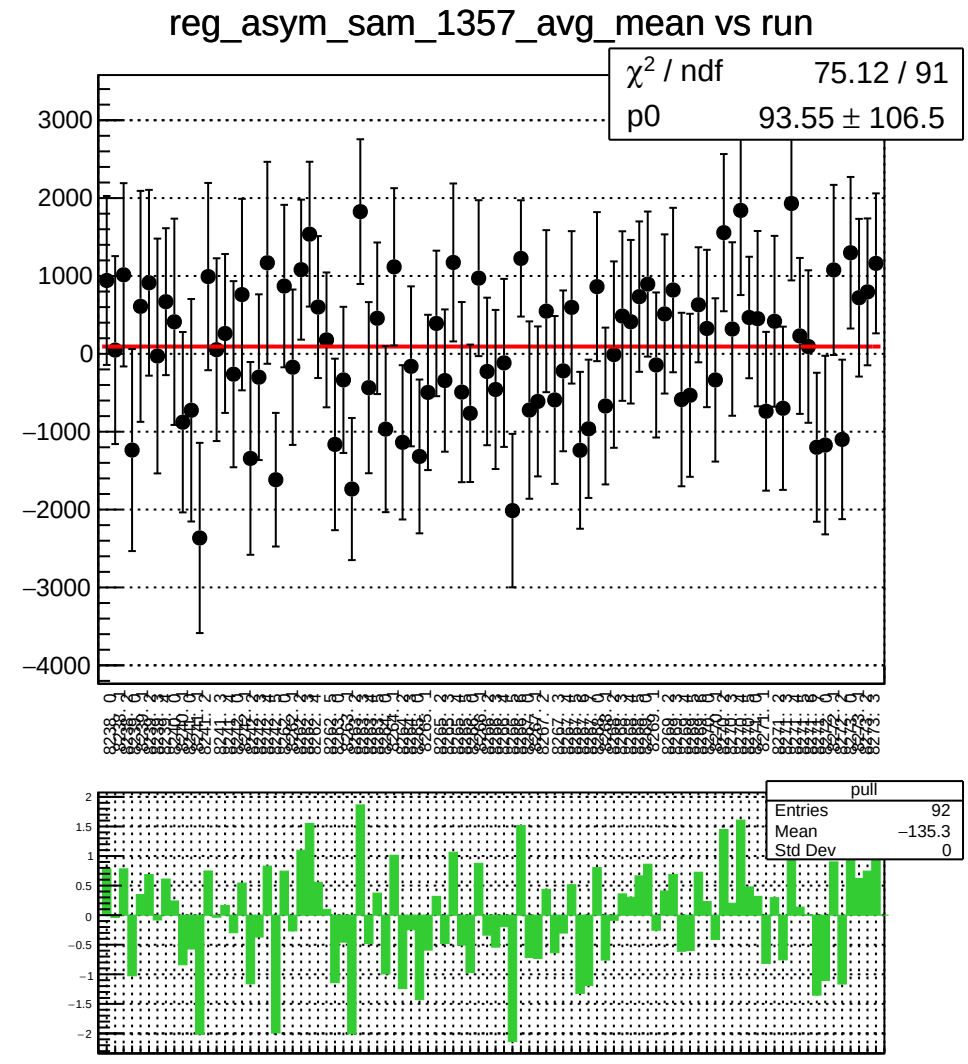

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.39 / 91
p0 0.03535 ± 0.04034
pull
Entries 92
Mean −49.98
Std Dev 0
pull1D
Entries 92
Mean 0.02488
Std Dev 0.9049

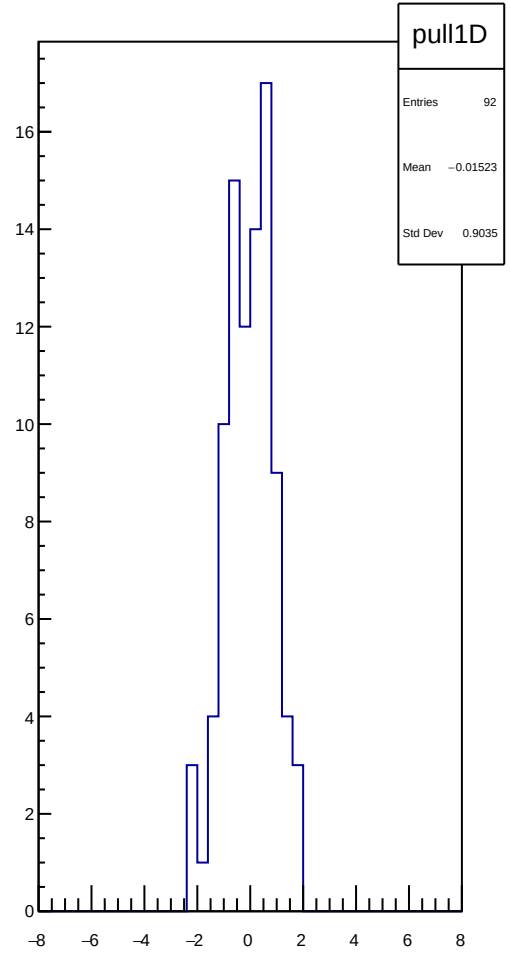

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.716e+04 / 91
p0 37.14 ± 0.02852
70
60
50
40
30
20

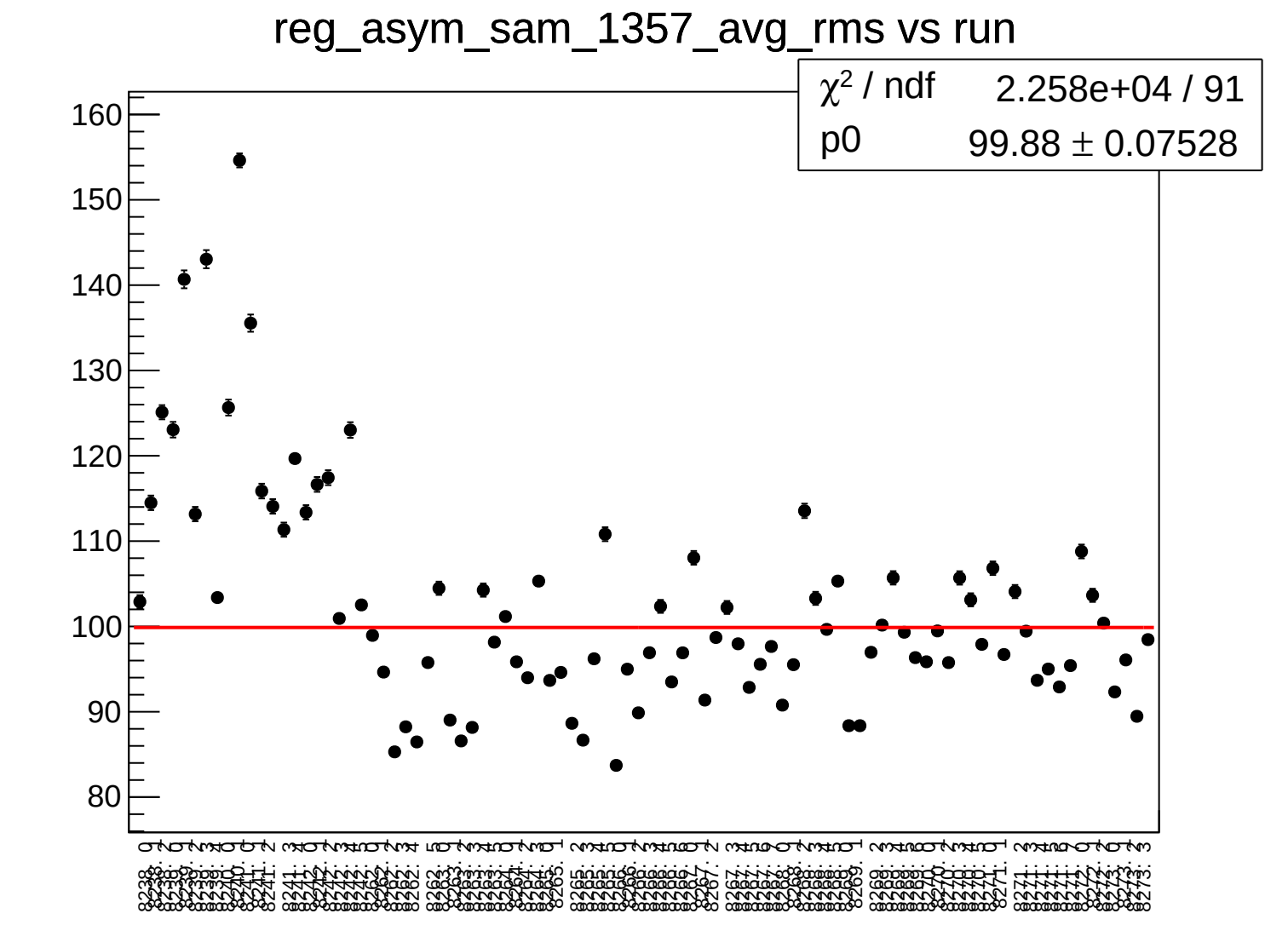

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 86.19 / 91
p0 −1.841e−14 ± 1.548e−14
pull
Entries 92
Mean −99.15
Std Dev 0

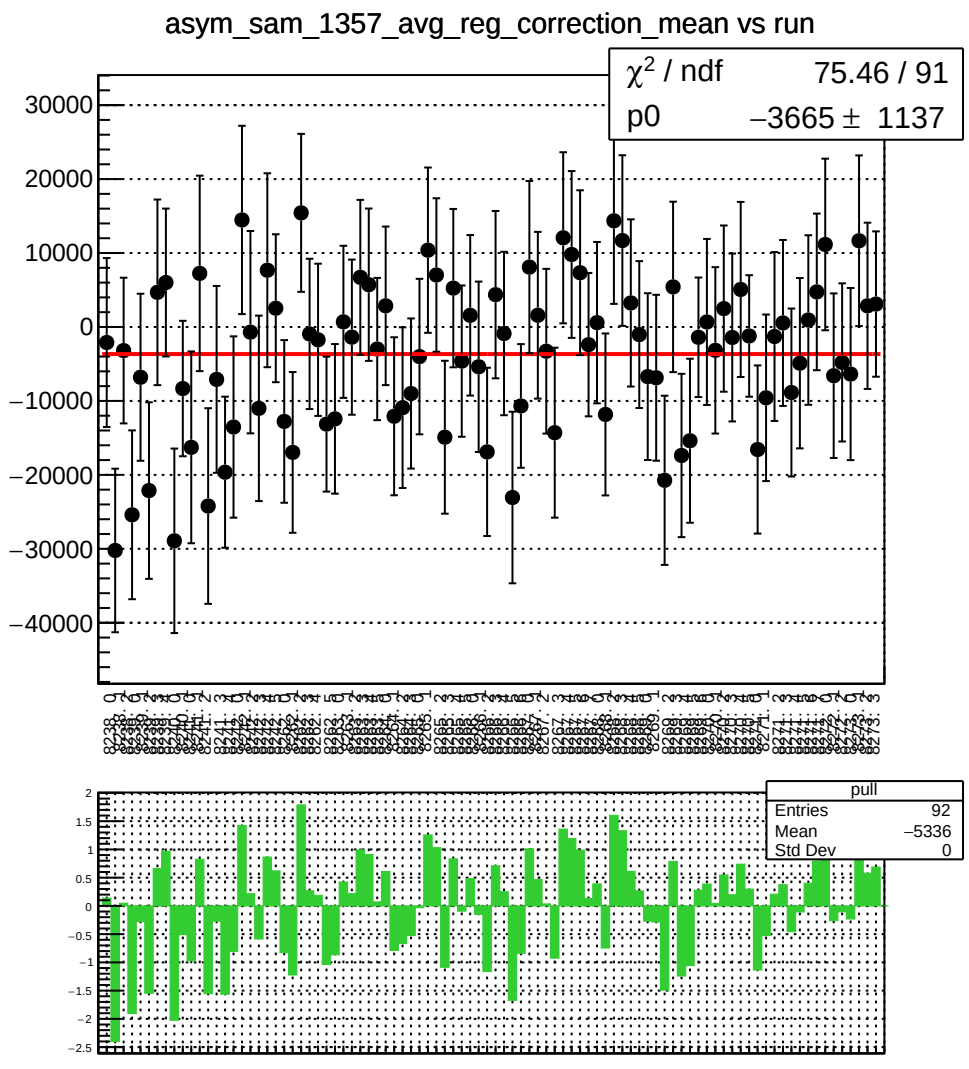

pull1D
Entries 92
Mean 0.02245
Std Dev 0.9677

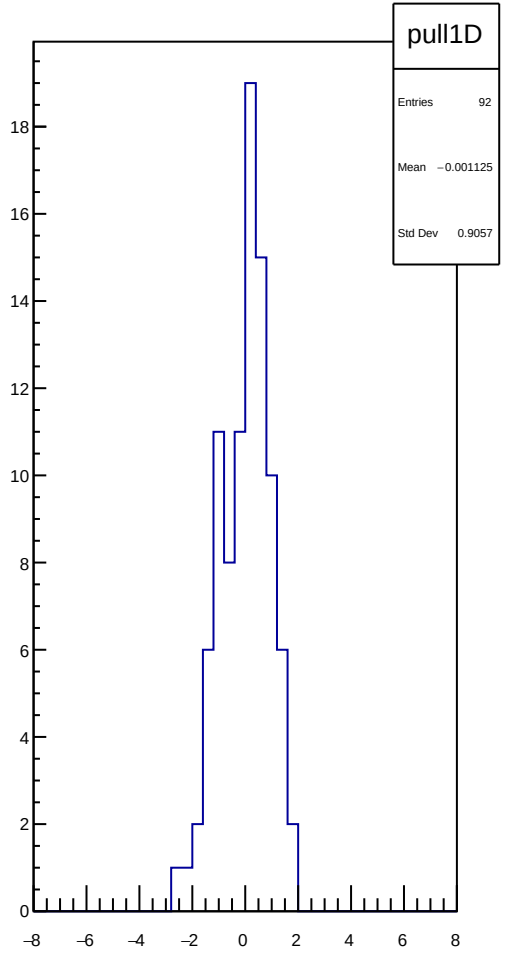

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.757e+05 / 91
p0 1.344e−11 ± 1.095e−14
45
40
35
30
25
20
15
10
5

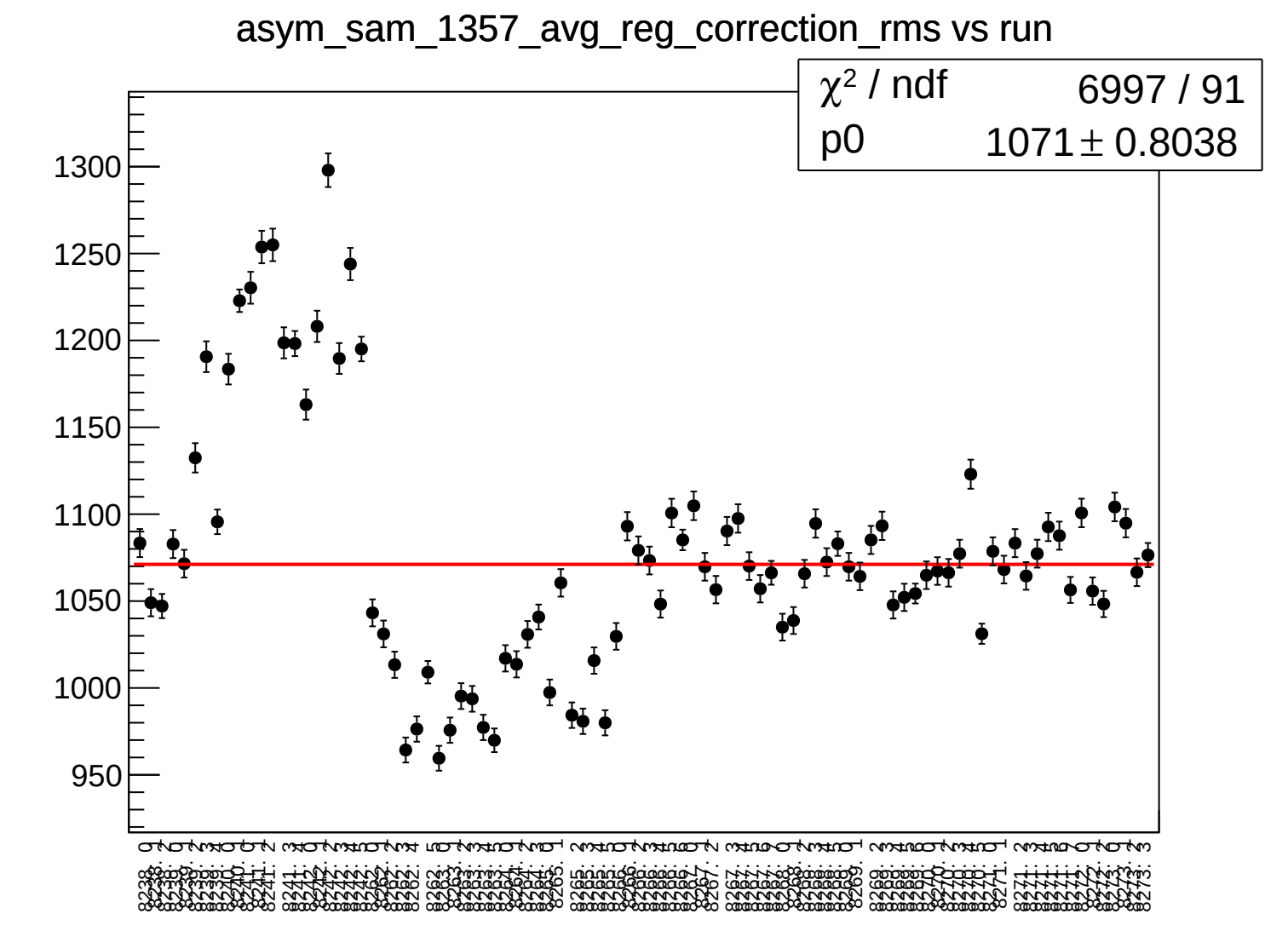

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 75.12 / 91
p0 93.55 ± 106.5
pull
Entries 92
Mean −135.3
Std Dev 0

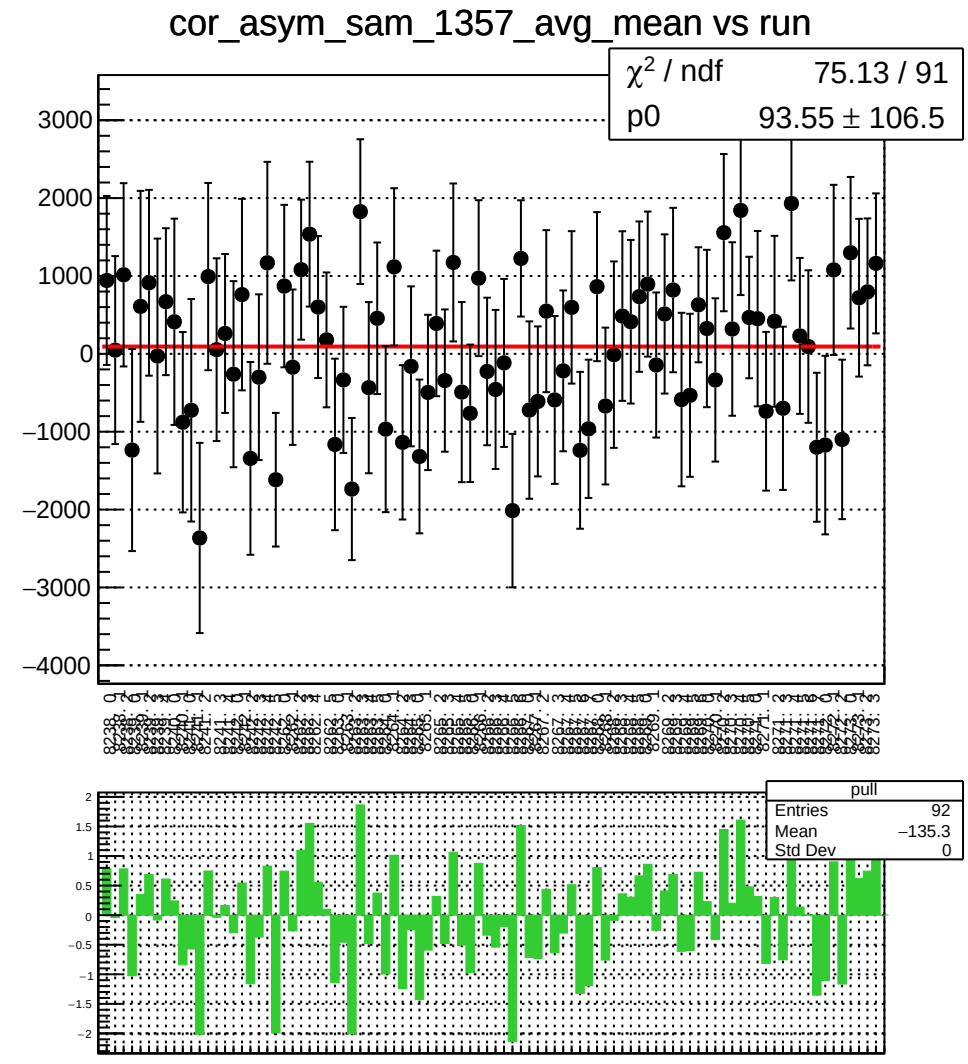

pull1D
Entries 92
Mean −0.01523
Std Dev 0.9035

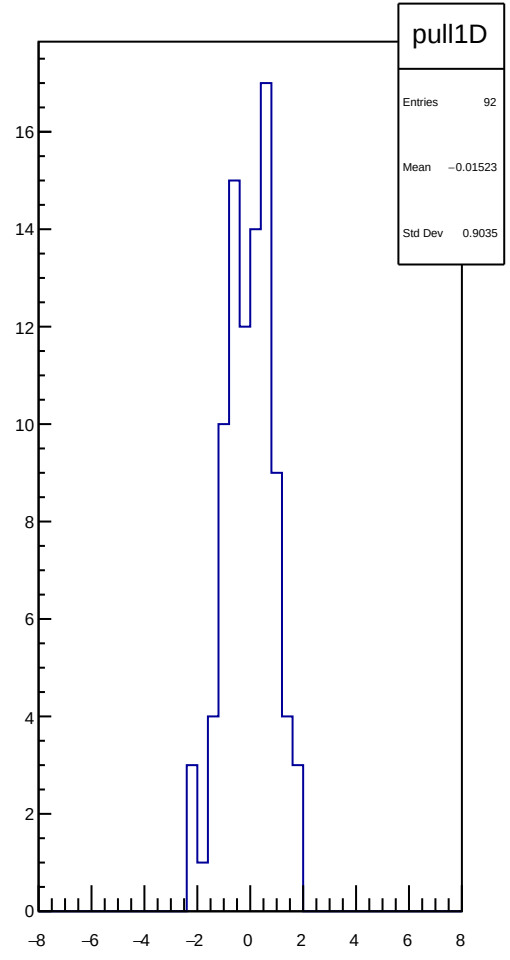

reg_asym_sam_1357_avg_rms vs run
$\chi^2$ / ndf 2.258e+04 / 91
p0 99.88 ± 0.07528
160
150
140
130
120
110
100
90
80

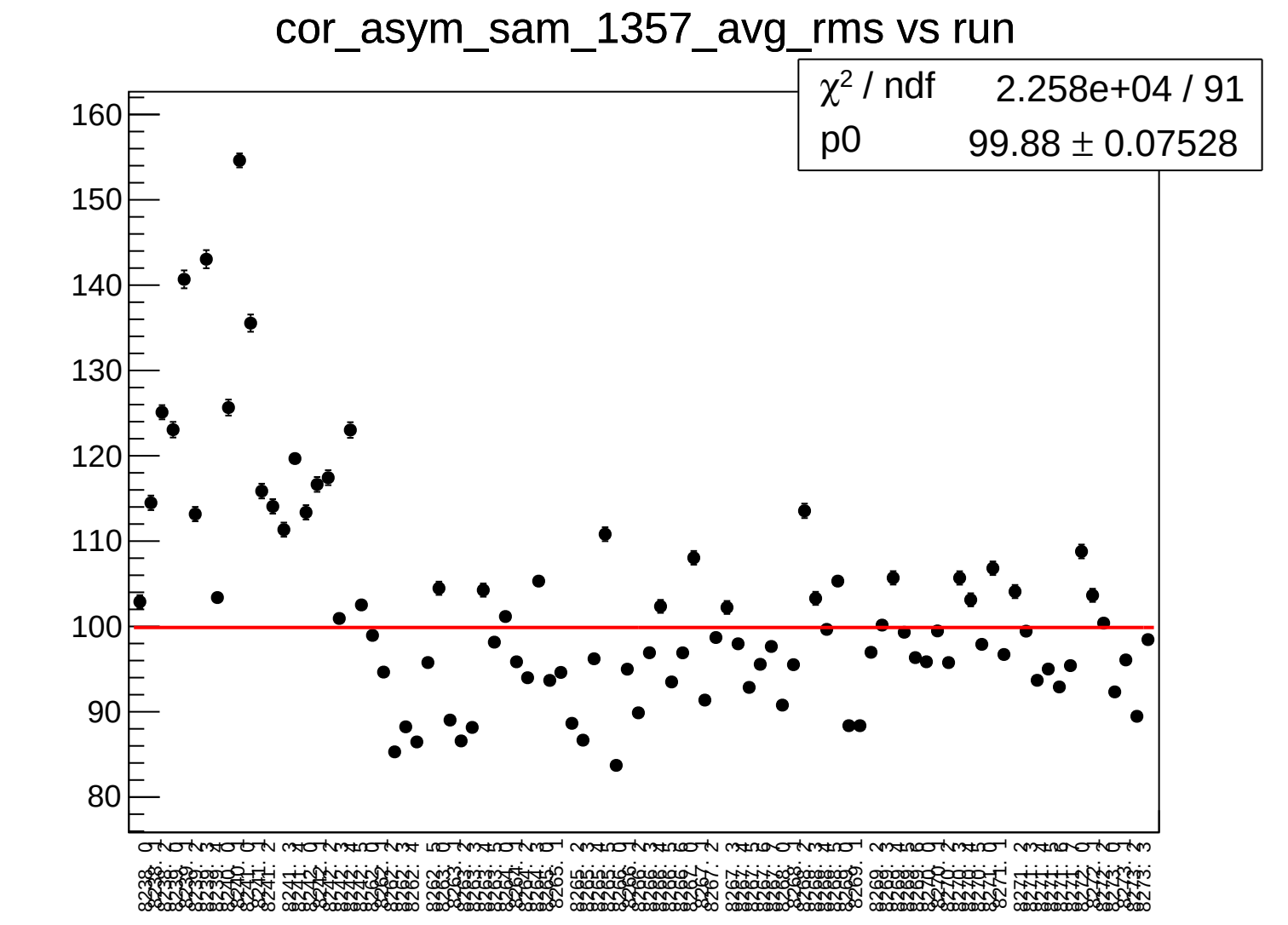

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 75.46 / 91
p0 −3665 ± 1137
pull
Entries 92
Mean −5336
Std Dev 0

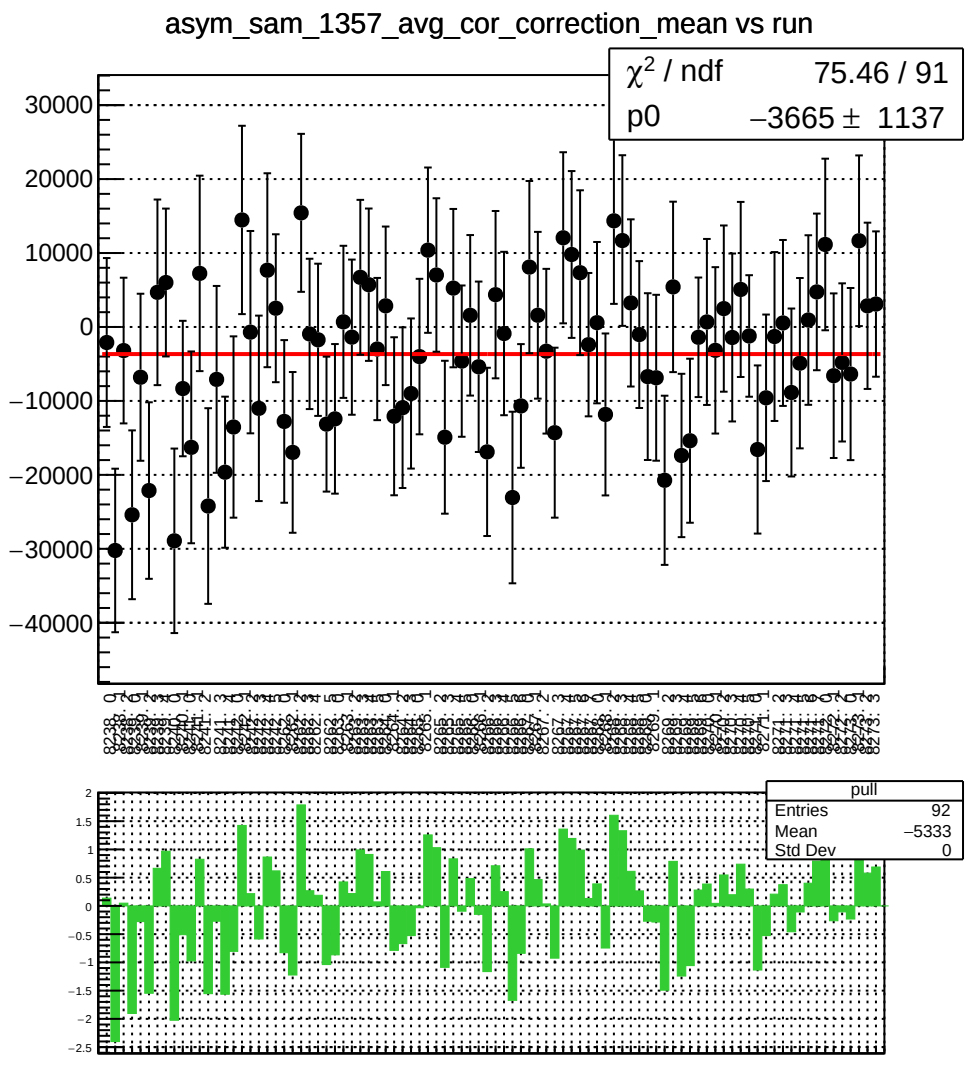

pull1D
Entries 92
Mean −0.001125
Std Dev 0.9057

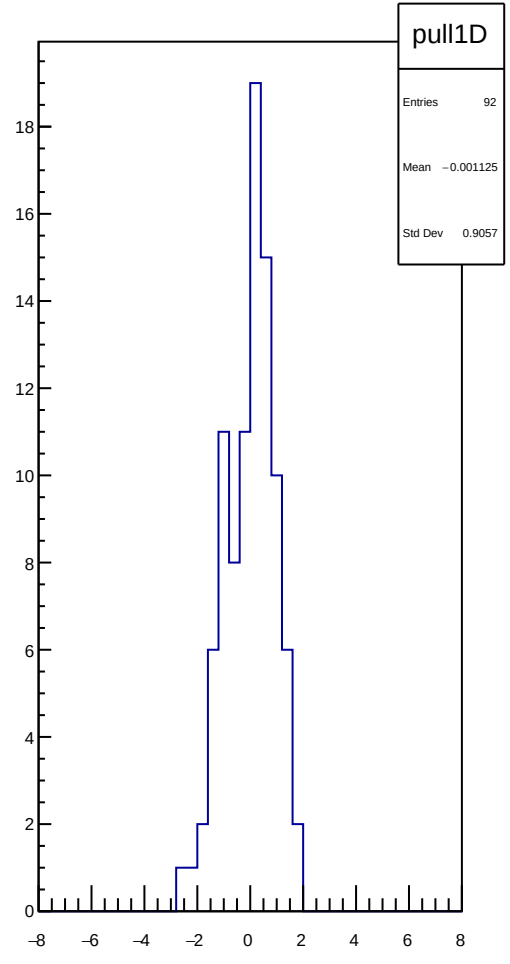

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 6997 / 91
p0 1071 ± 0.8038
1300
1250
1200
1150
1100
1050
1000
950

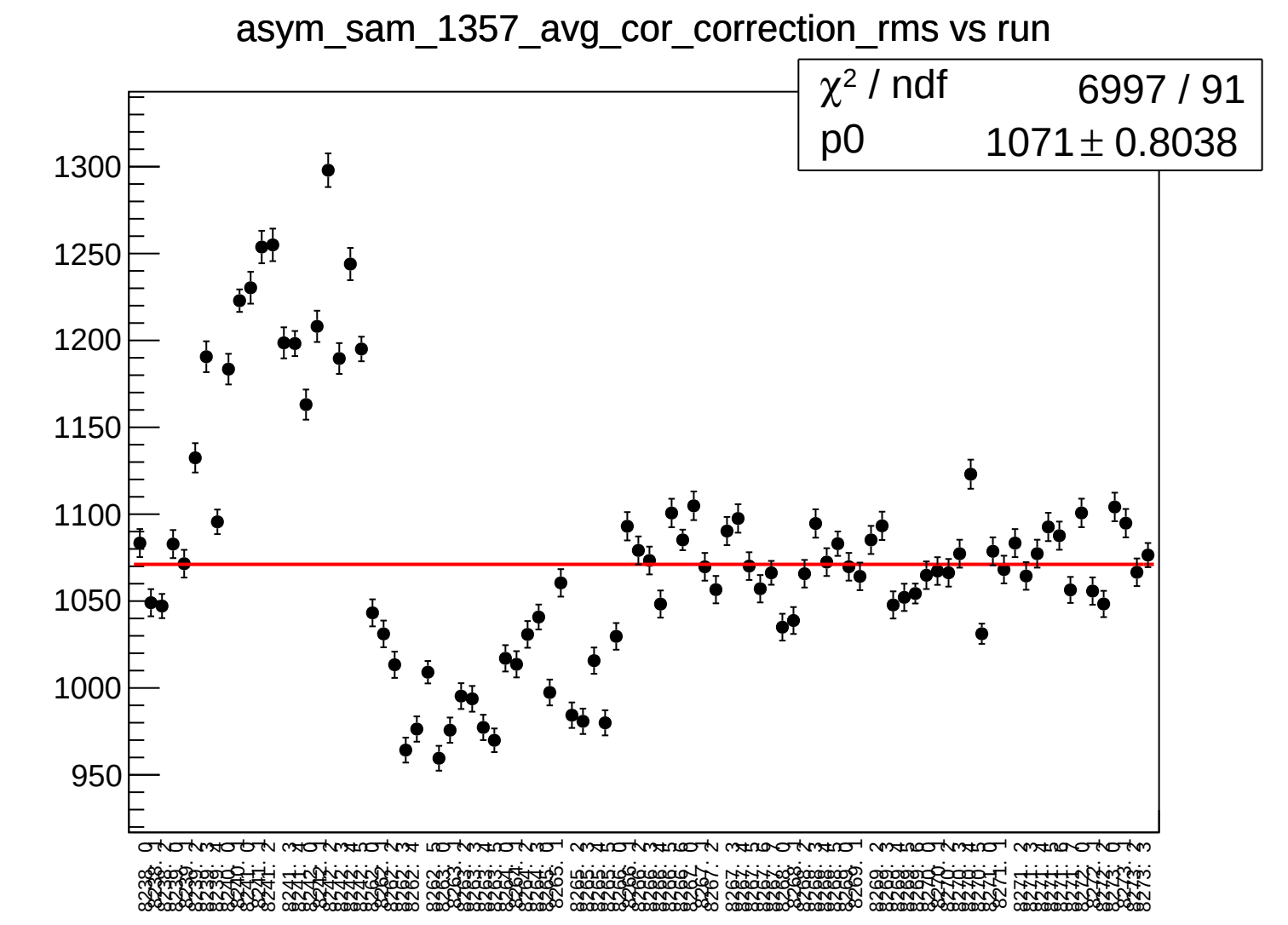

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 75.13 / 91
p0 93.55 ± 106.5
pull
Entries 92
Mean −135.3
Std Dev 0

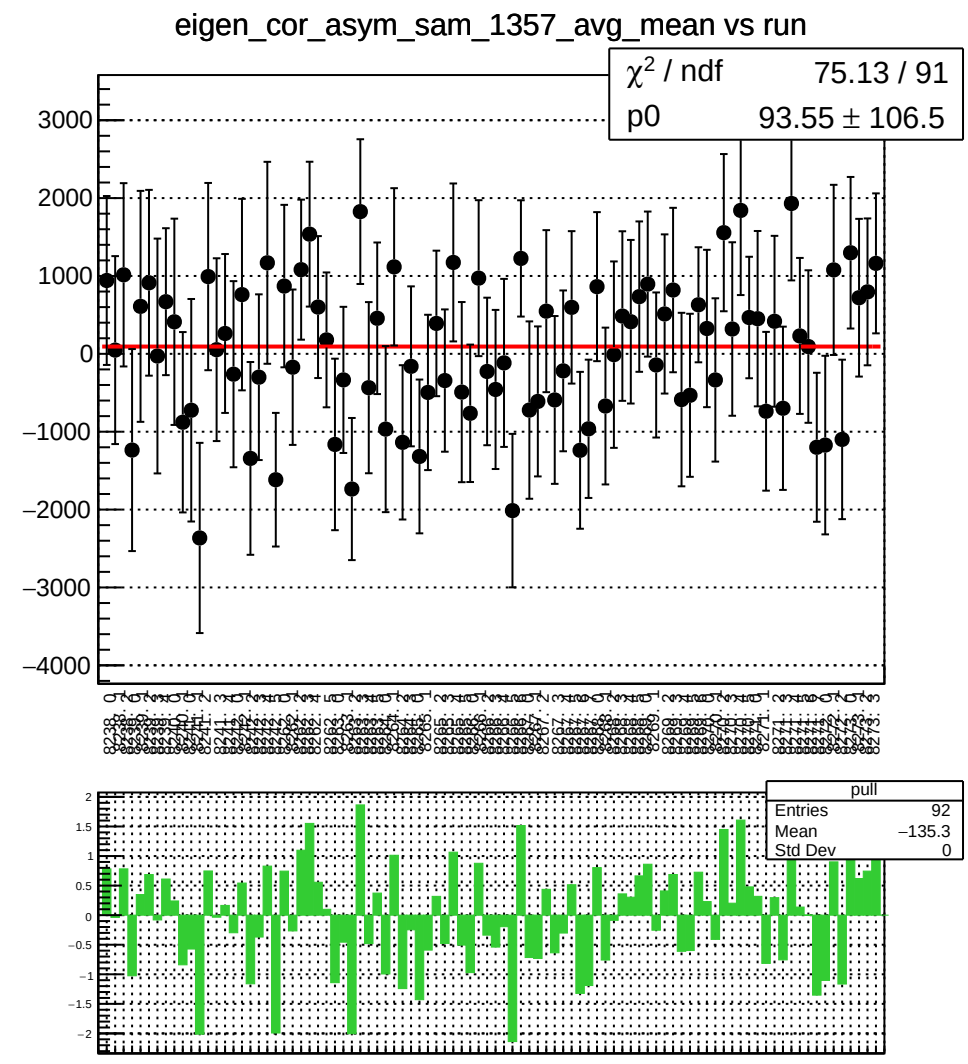

pull1D
Entries 92
Mean −0.01523
Std Dev 0.9035

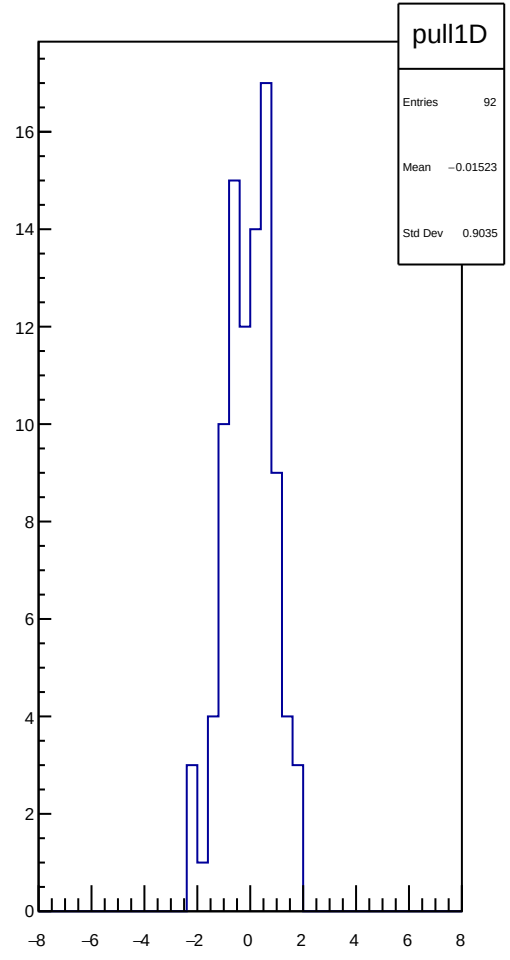

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 2.258e+04 / 91
p0 99.88 ± 0.07528
160
150
140
130
120
110
100
90
80

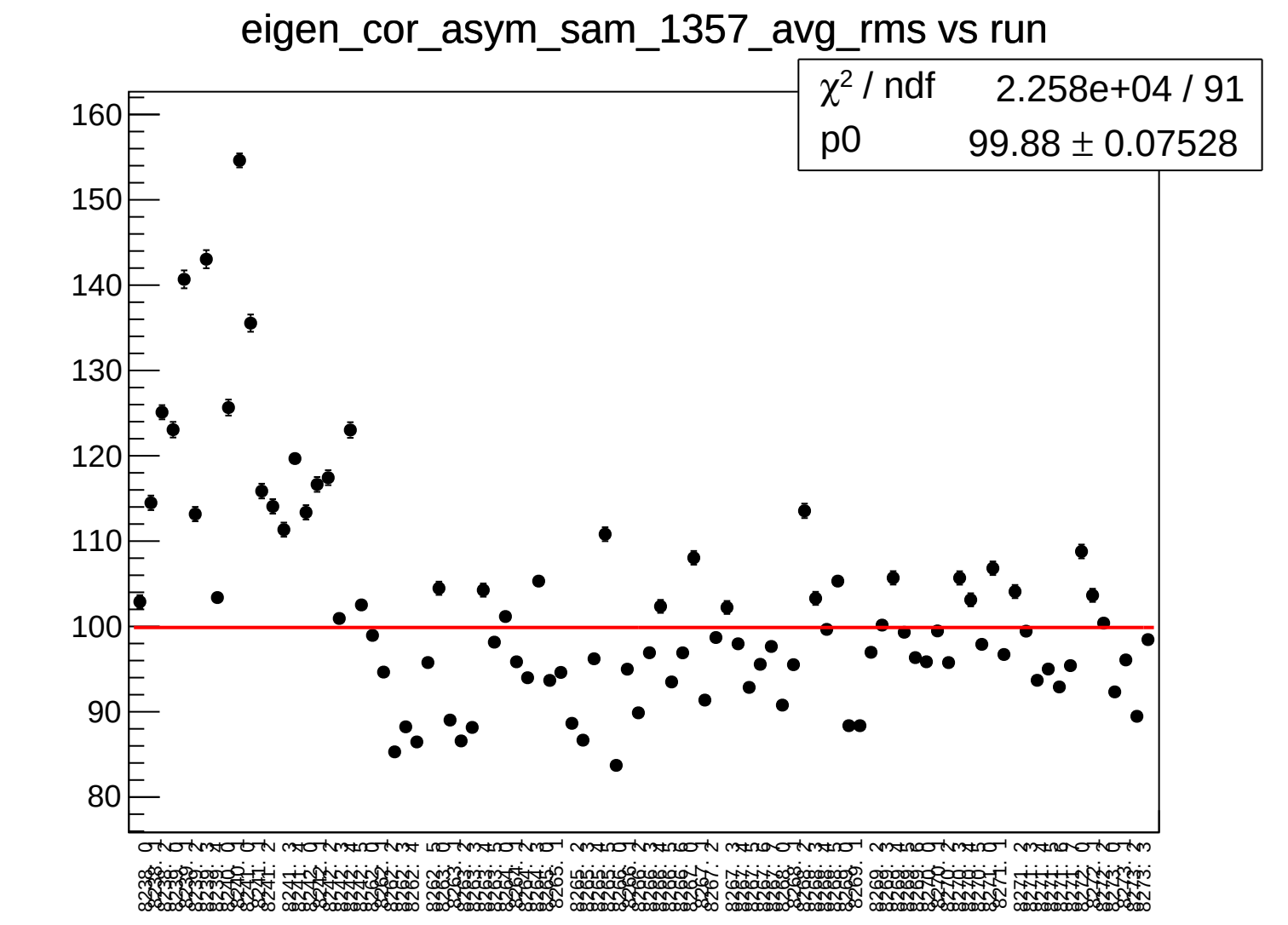

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 75.46 / 91
p0 −3665 ± 1137
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −5333
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

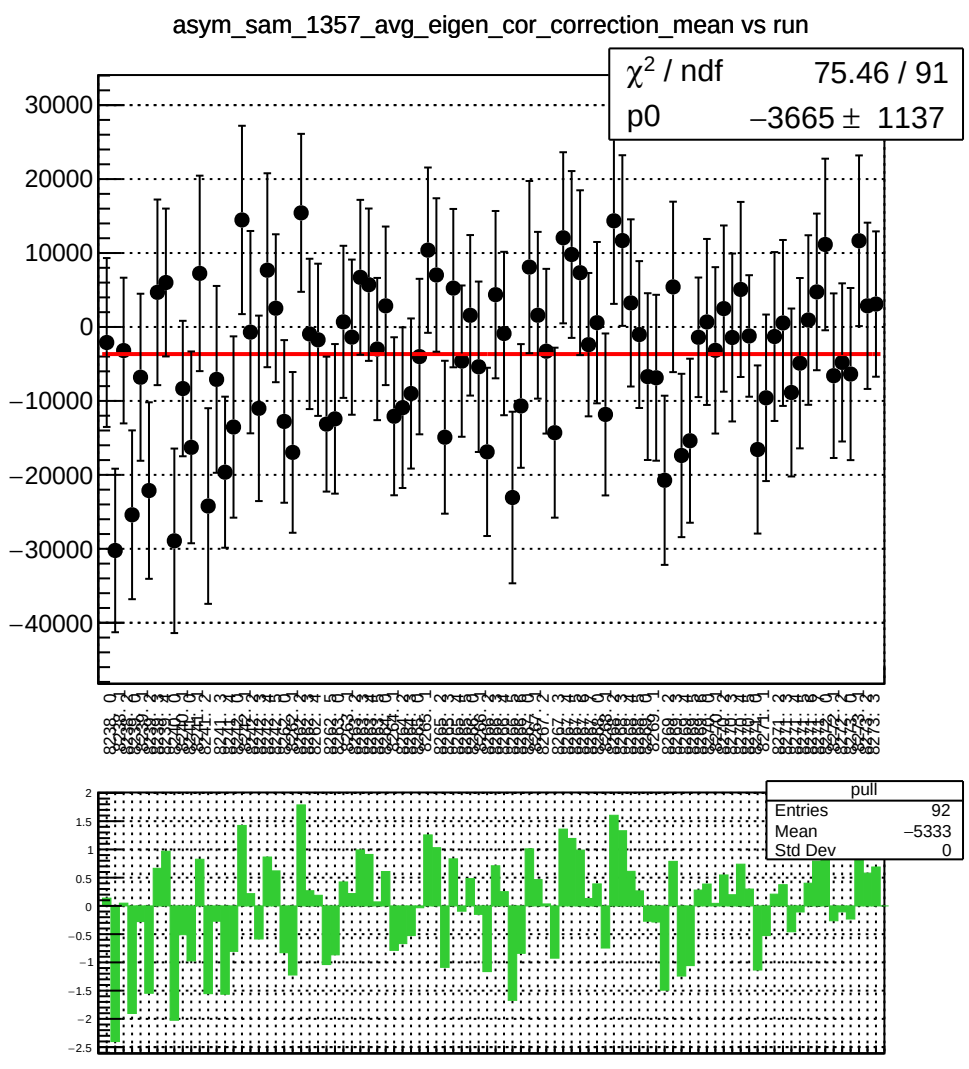

pull1D
Entries 92
Mean −0.001125
Std Dev 0.9057
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

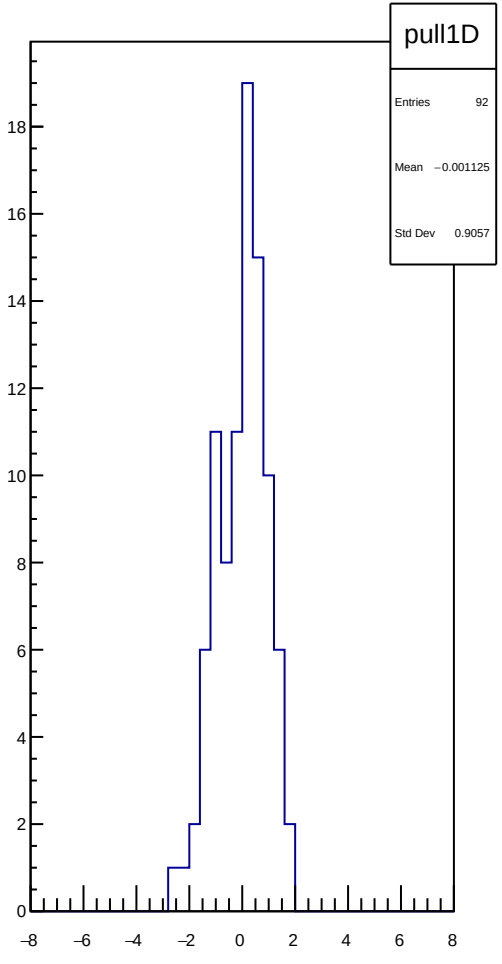

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 6997 / 91
p0 1071 ± 0.8038
1300
1250
1200
1150
1100
1050
1000
950

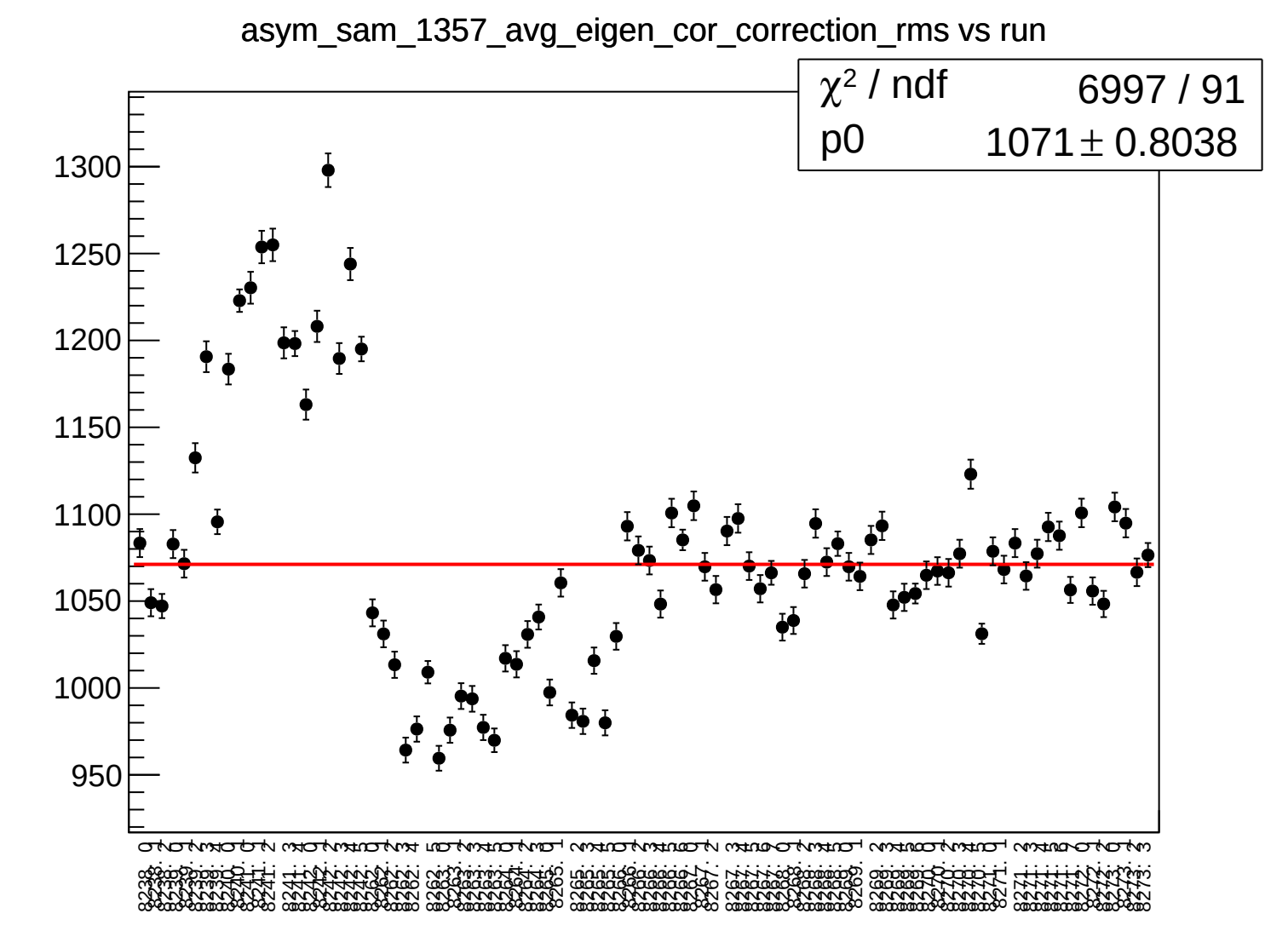

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 75.13 / 91
p0 93.55 ± 106.5
pull
Entries 92
Mean −135.3
Std Dev 0

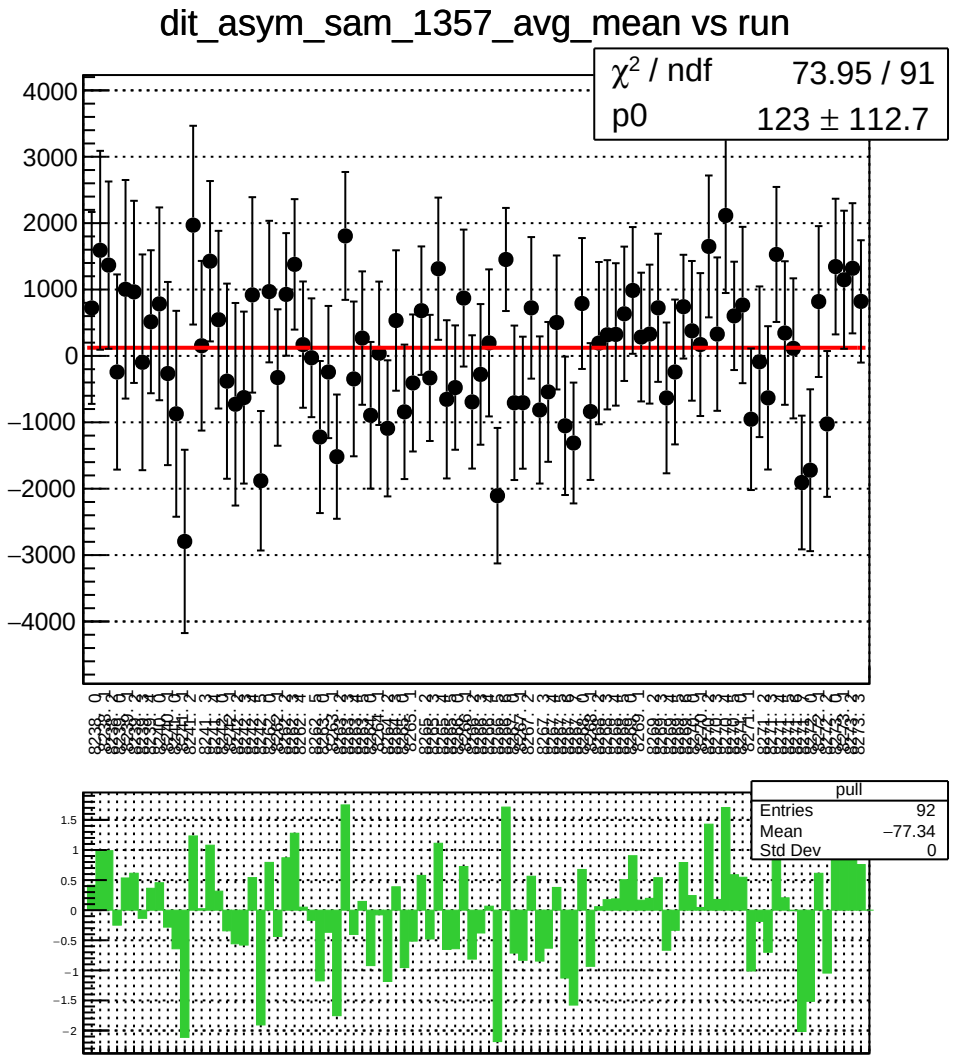

pull1D
Entries 92
Mean −0.01523
Std Dev 0.9035

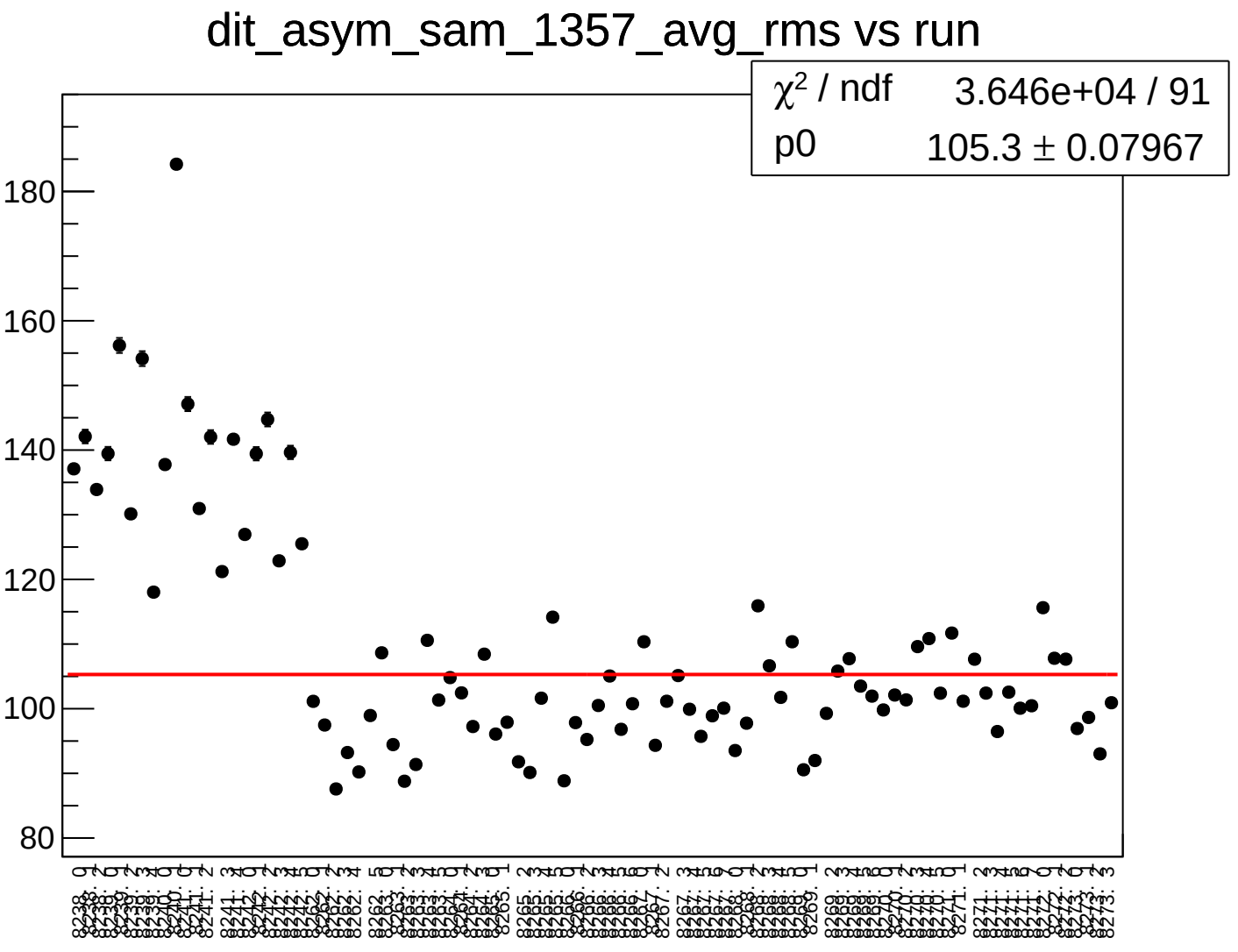

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 2.258e+04 / 91
p0 99.88 ± 0.07528
160
150
140
130
120
110
100
90
80

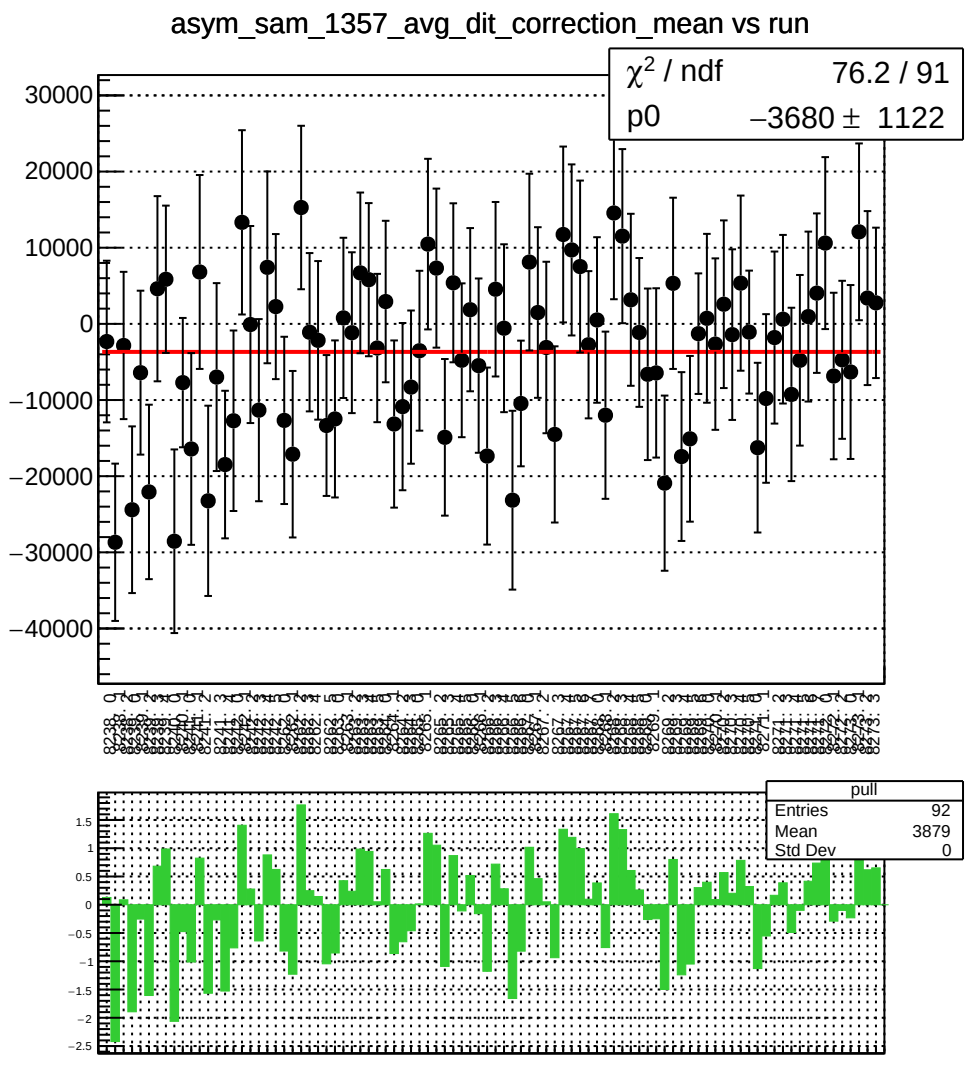

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 75.46 / 91
p0 −3665 ± 1137
pull
Entries 92
Mean −5333
Std Dev 0

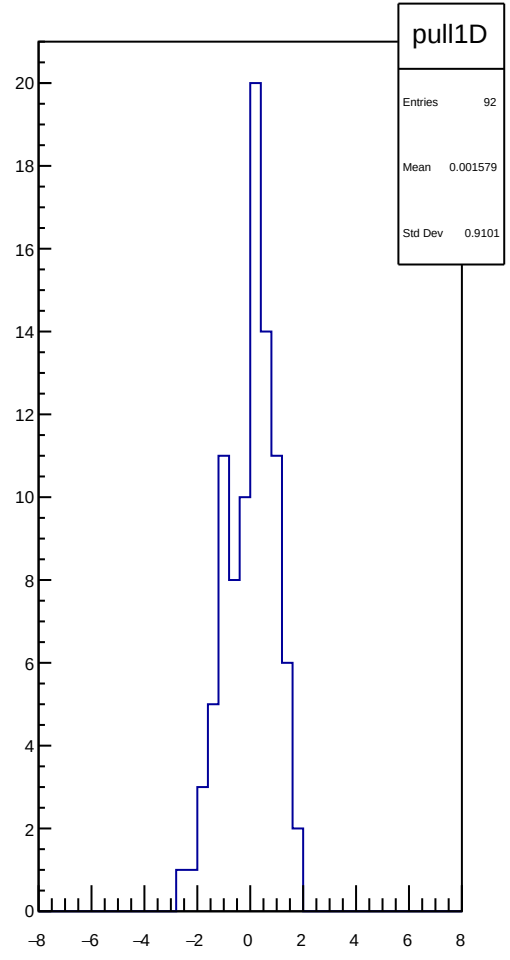

pull1D
Entries 92
Mean −0.001125
Std Dev 0.9057

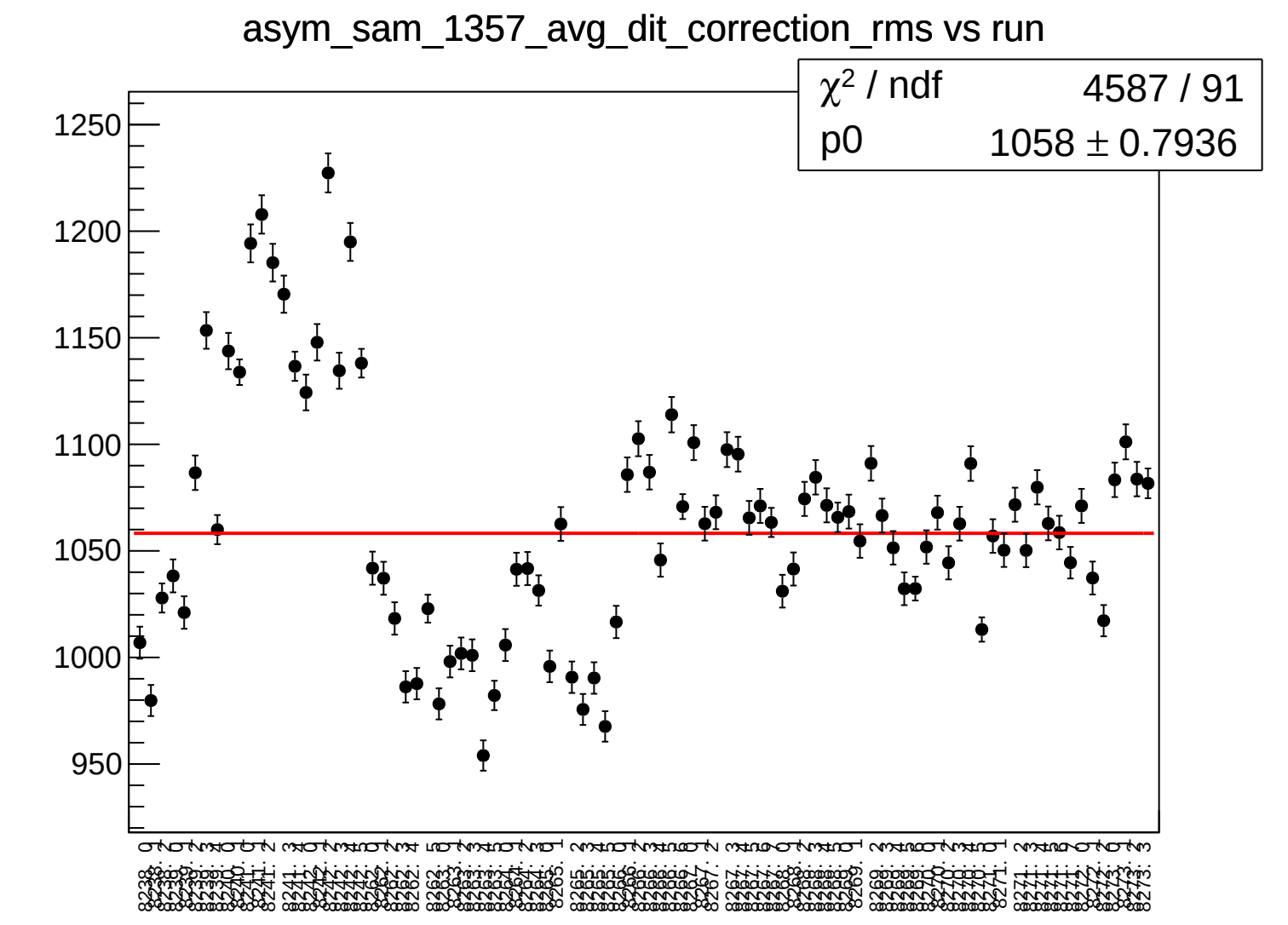

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 6997 / 91
p0 1071 ± 0.8038
1300
1250
1200
1150
1100
1050
1000
950

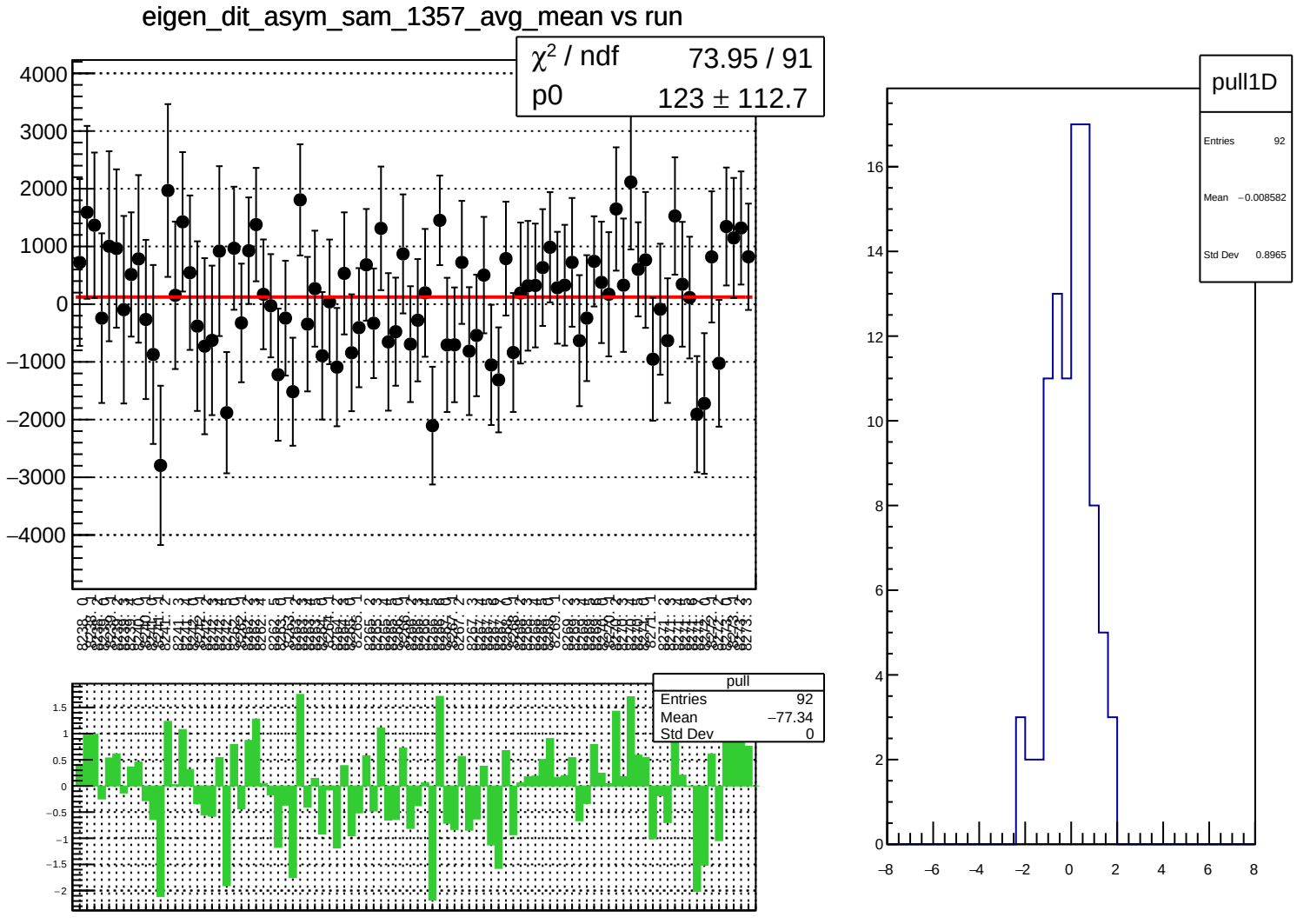

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 73.95 / 91
p0 123 ± 112.7
pull
Entries 92
Mean −77.34
Std Dev 0
pull1D
Entries 92
Mean −0.008583
Std Dev 0.8965

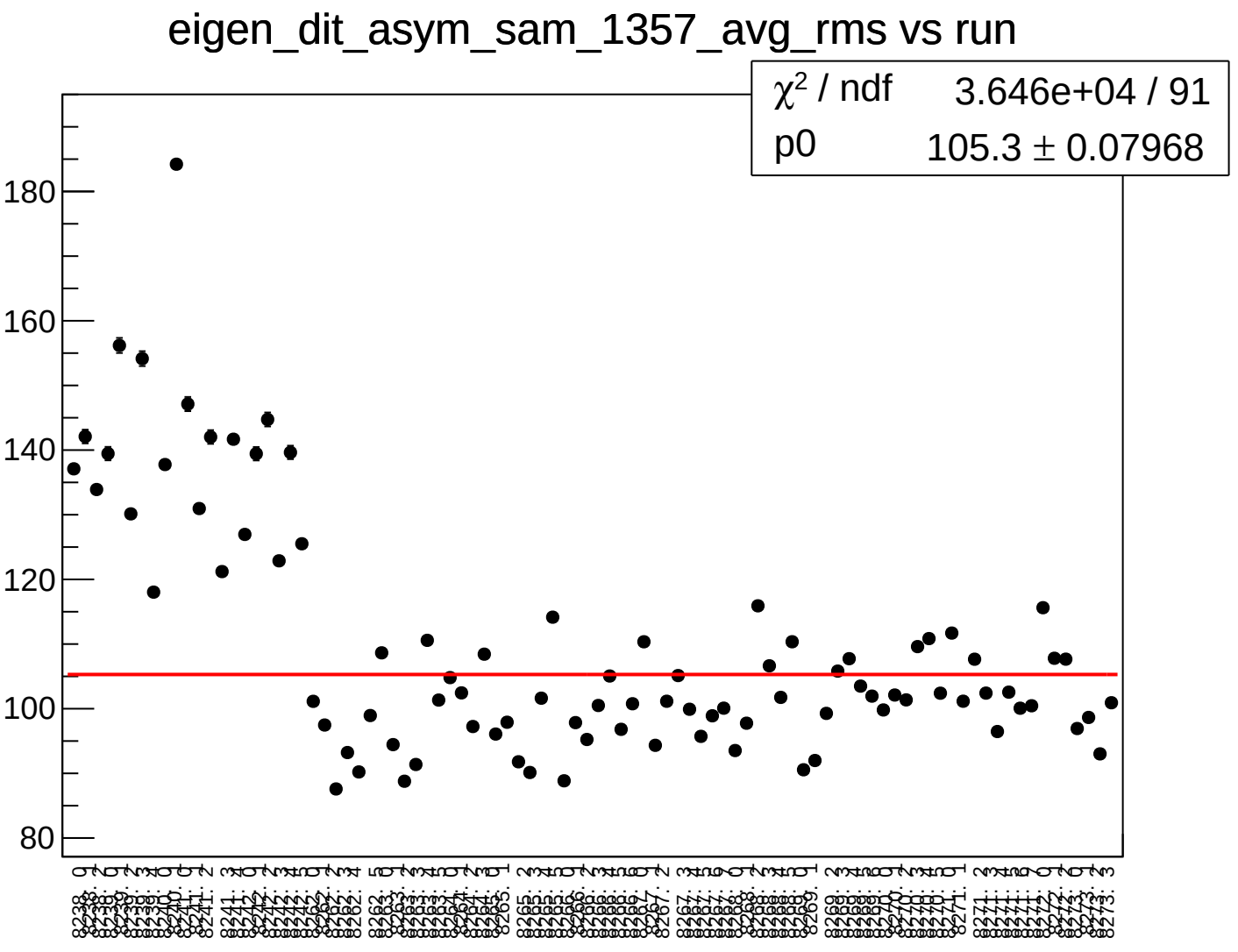

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 3.646e+04 / 91
p0 105.3 ± 0.07967
180
160
140
120
100
80

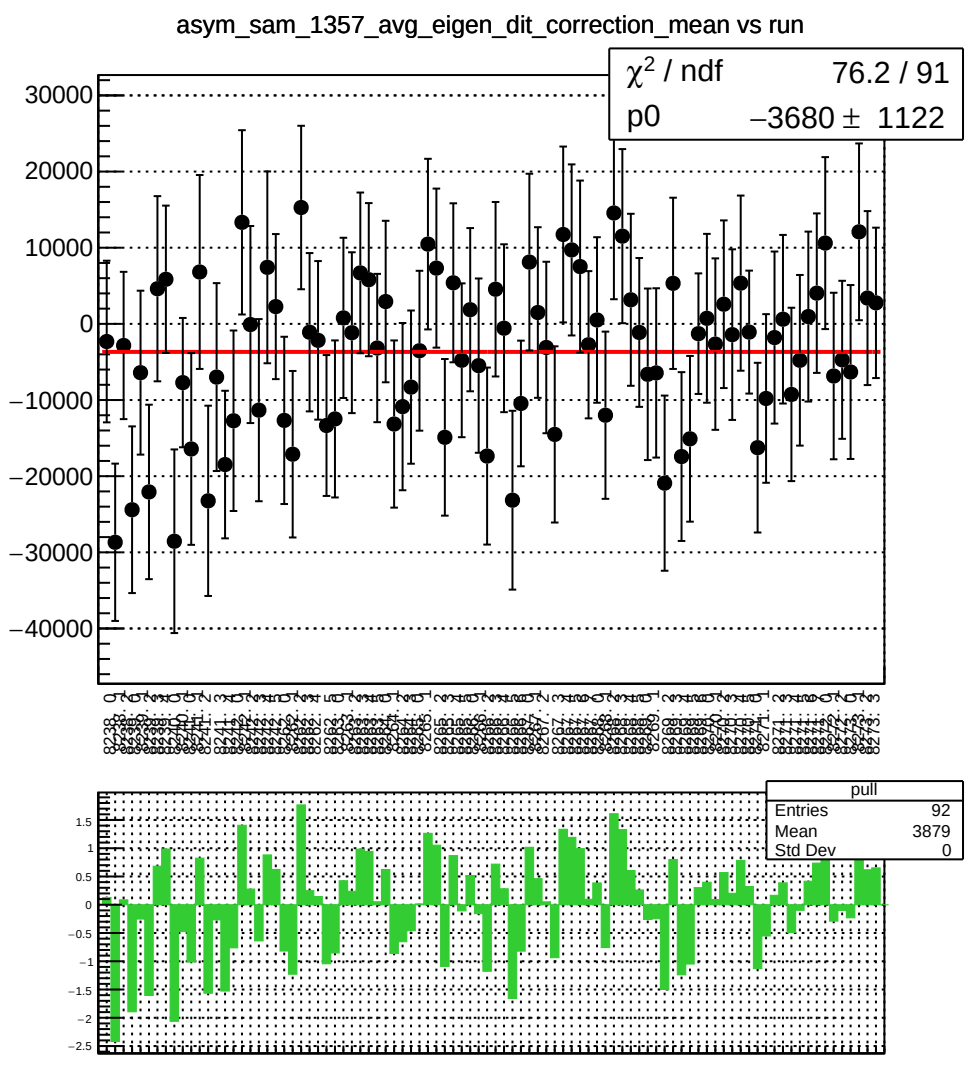

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 76.2 / 91
p0 −3680 ± 1122
pull
Entries 92
Mean 3879
Std Dev 0

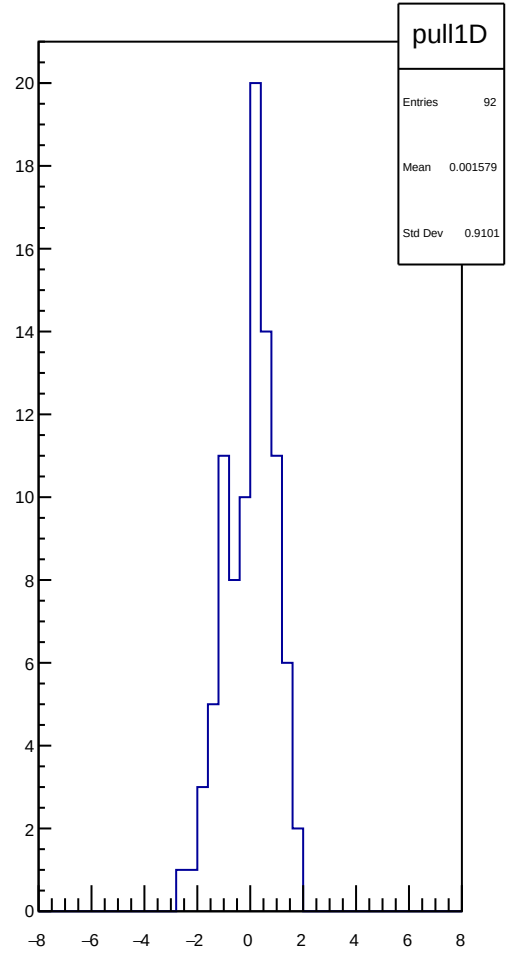

pull1D
Entries 92
Mean 0.001579
Std Dev 0.9101

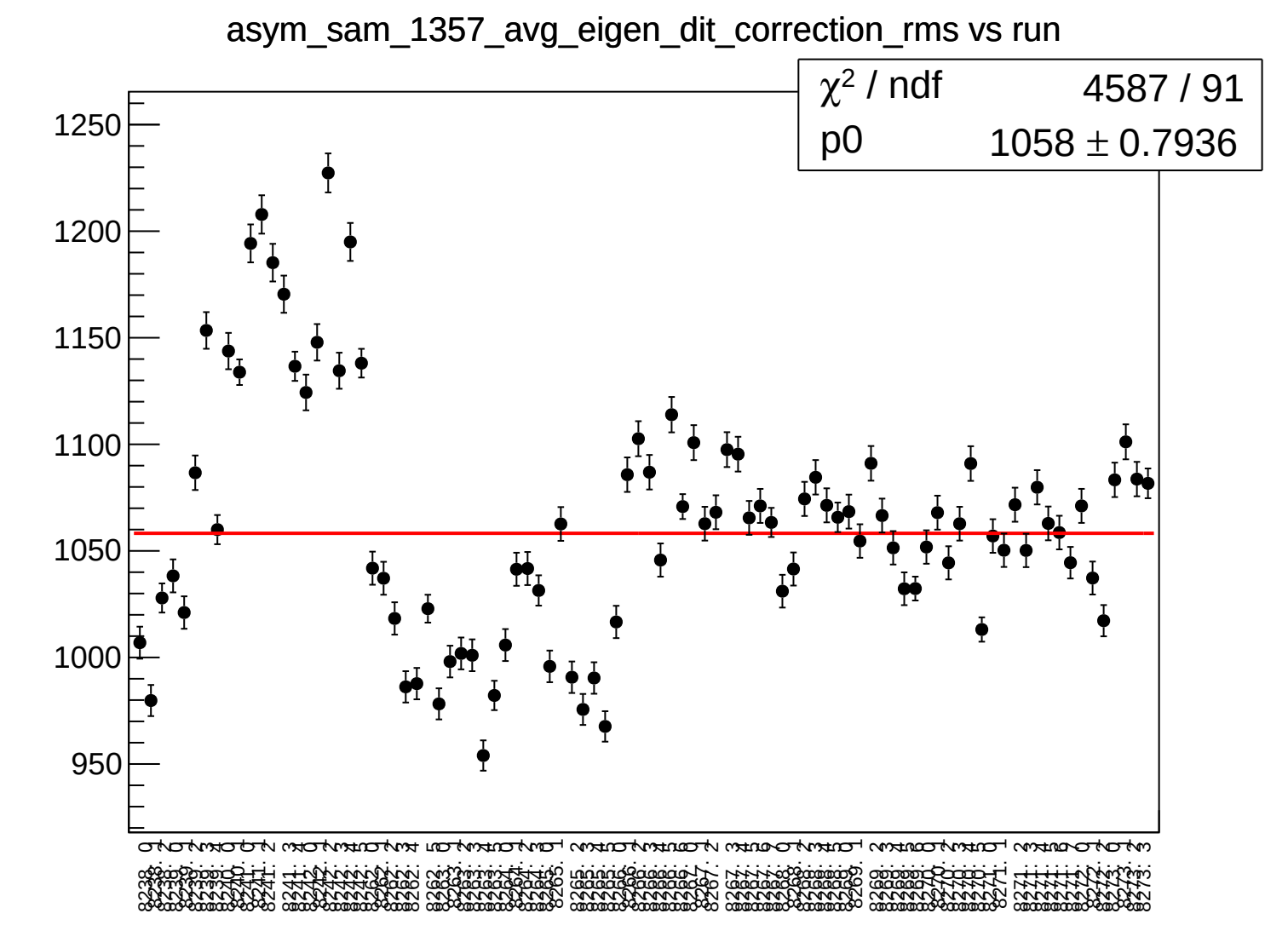

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 4587 / 91
p0 1058 ± 0.7936
1250
1200
1150
1100
1050
1000
950

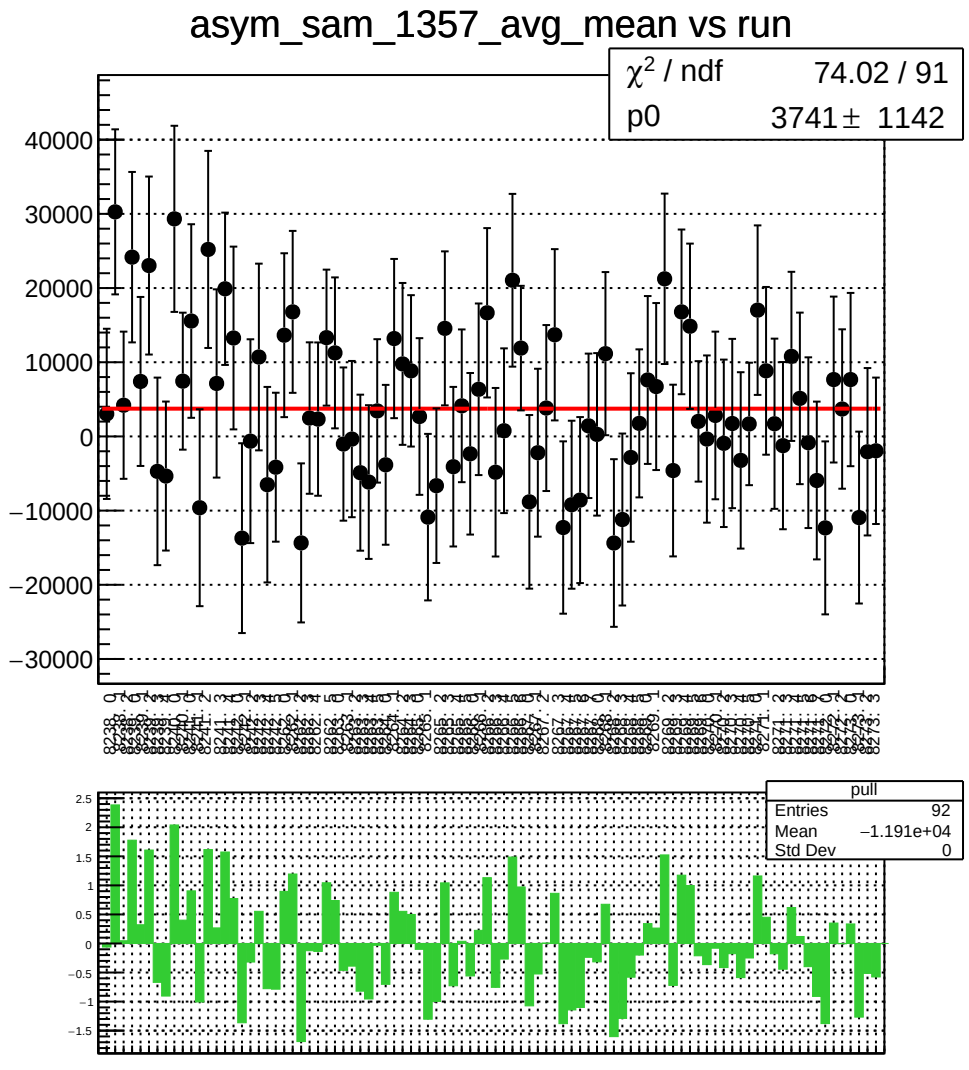

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 73.95 / 91
p0 123 ± 112.7
pull
Entries 92
Mean −77.34
Std Dev 0
pull1D
Entries 92
Mean −0.008582
Std Dev 0.8965

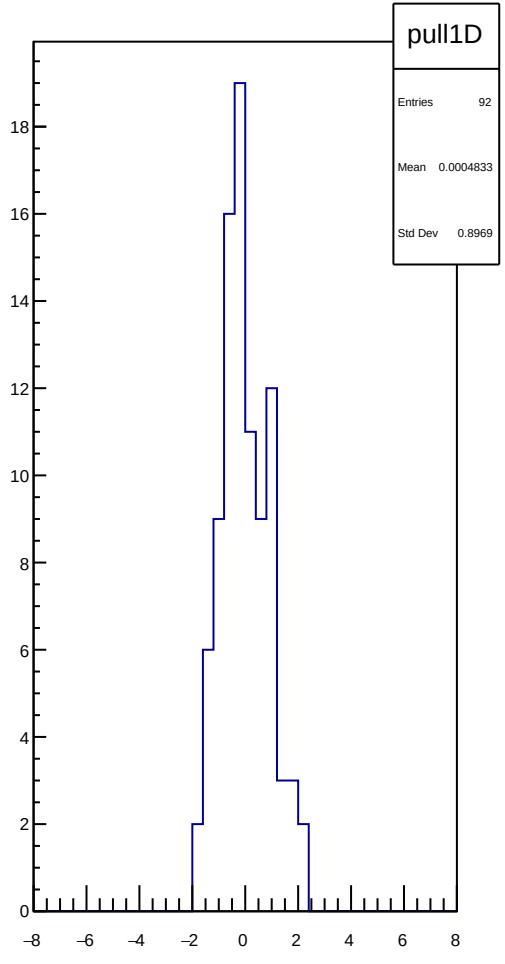

eigen_dit_asym_sam_1357_avg_rms vs run
$\chi^2$ / ndf 3.646e+04 / 91
p0 105.3 ± 0.07968
180
160
140
120
100
80

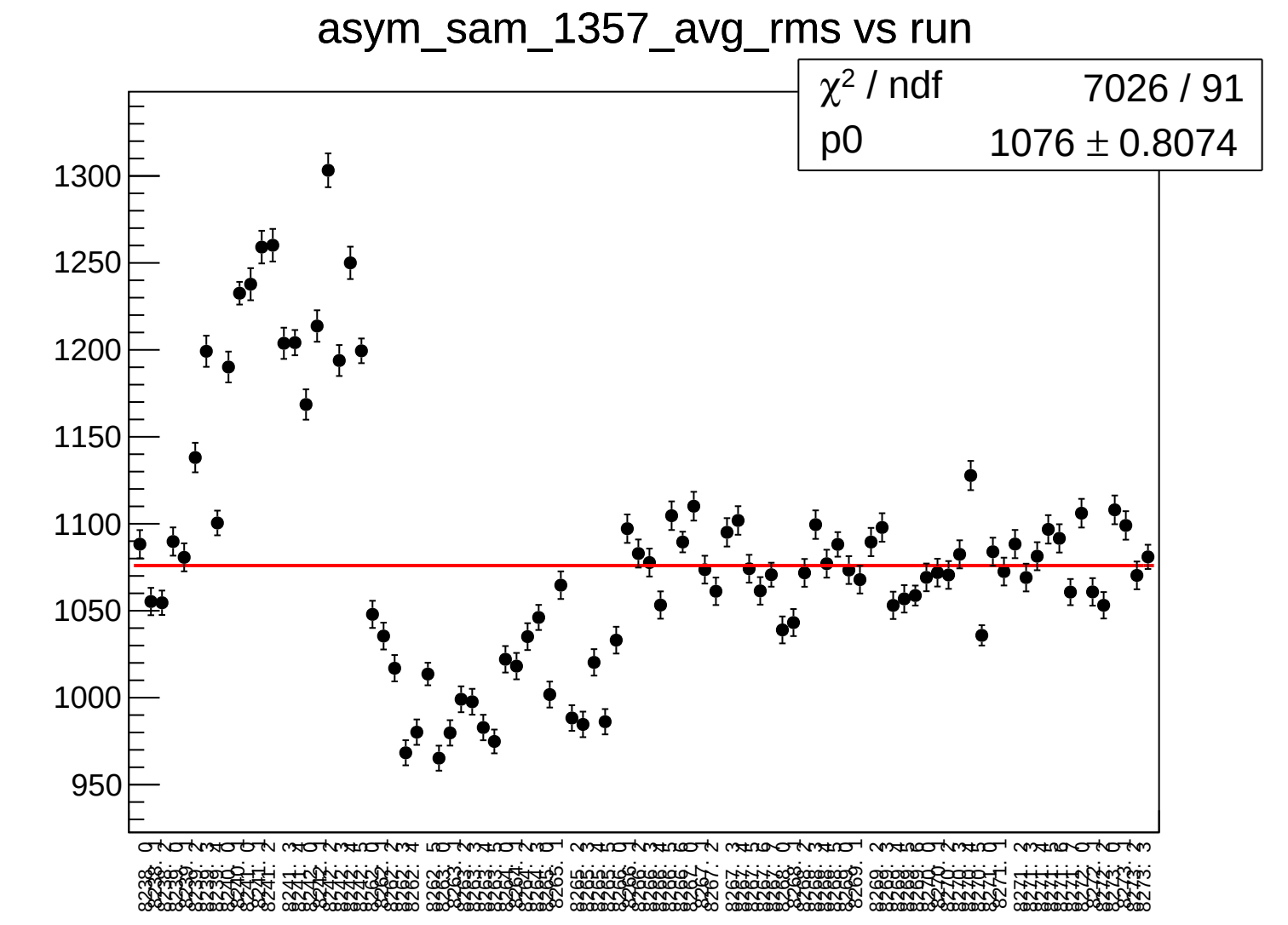

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 76.2 / 91
p0 −3680 ± 1122
pull
Entries 92
Mean 3879
Std Dev 0

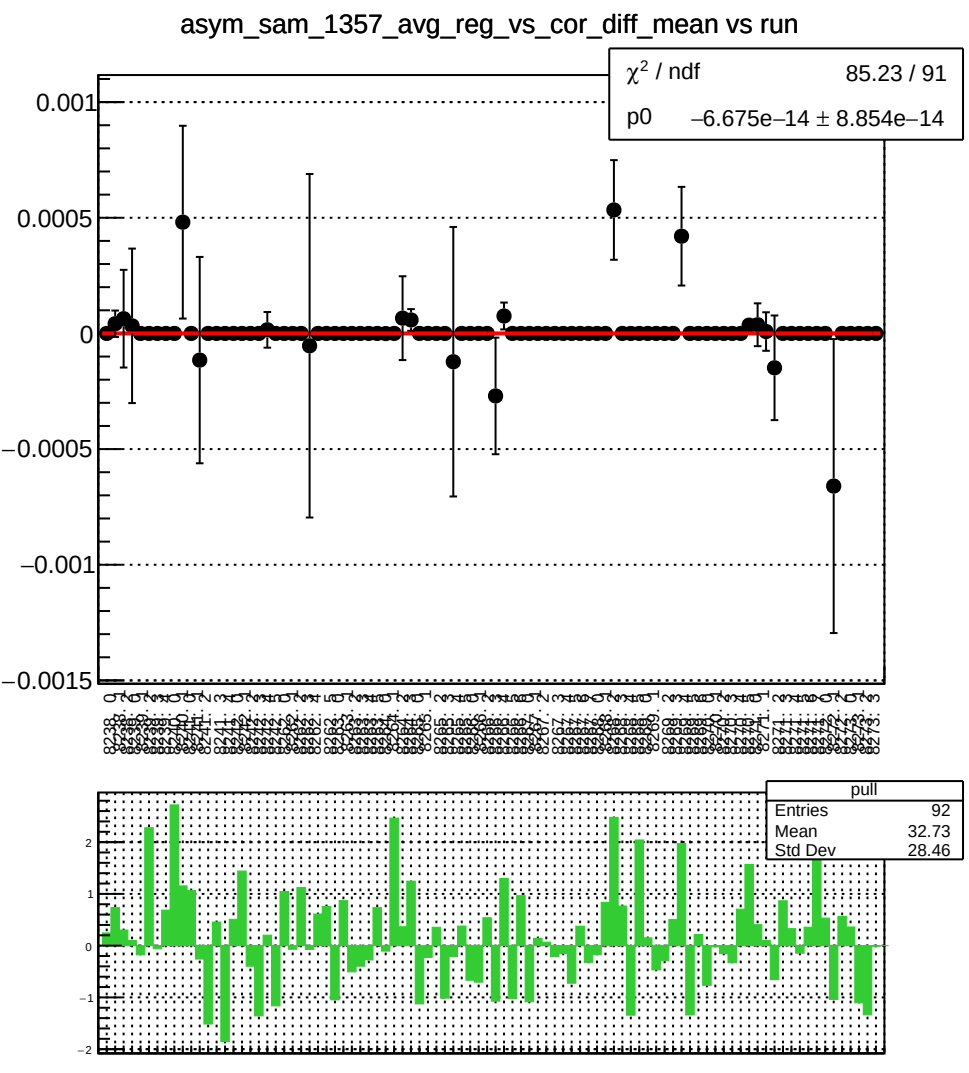

pull1D
Entries 92
Mean 0.001579
Std Dev 0.9101

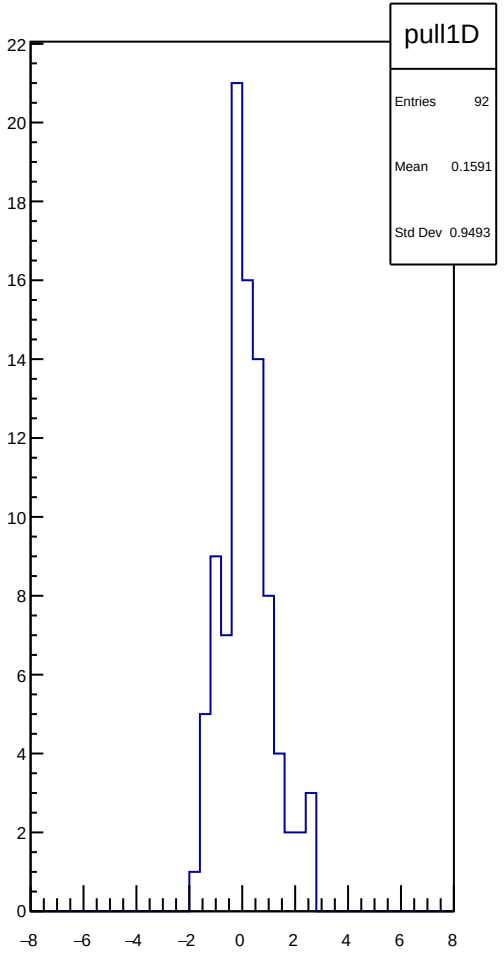

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 4587 / 91
p0 1058 ± 0.7936
1250
1200
1150
1100
1050
1000
950

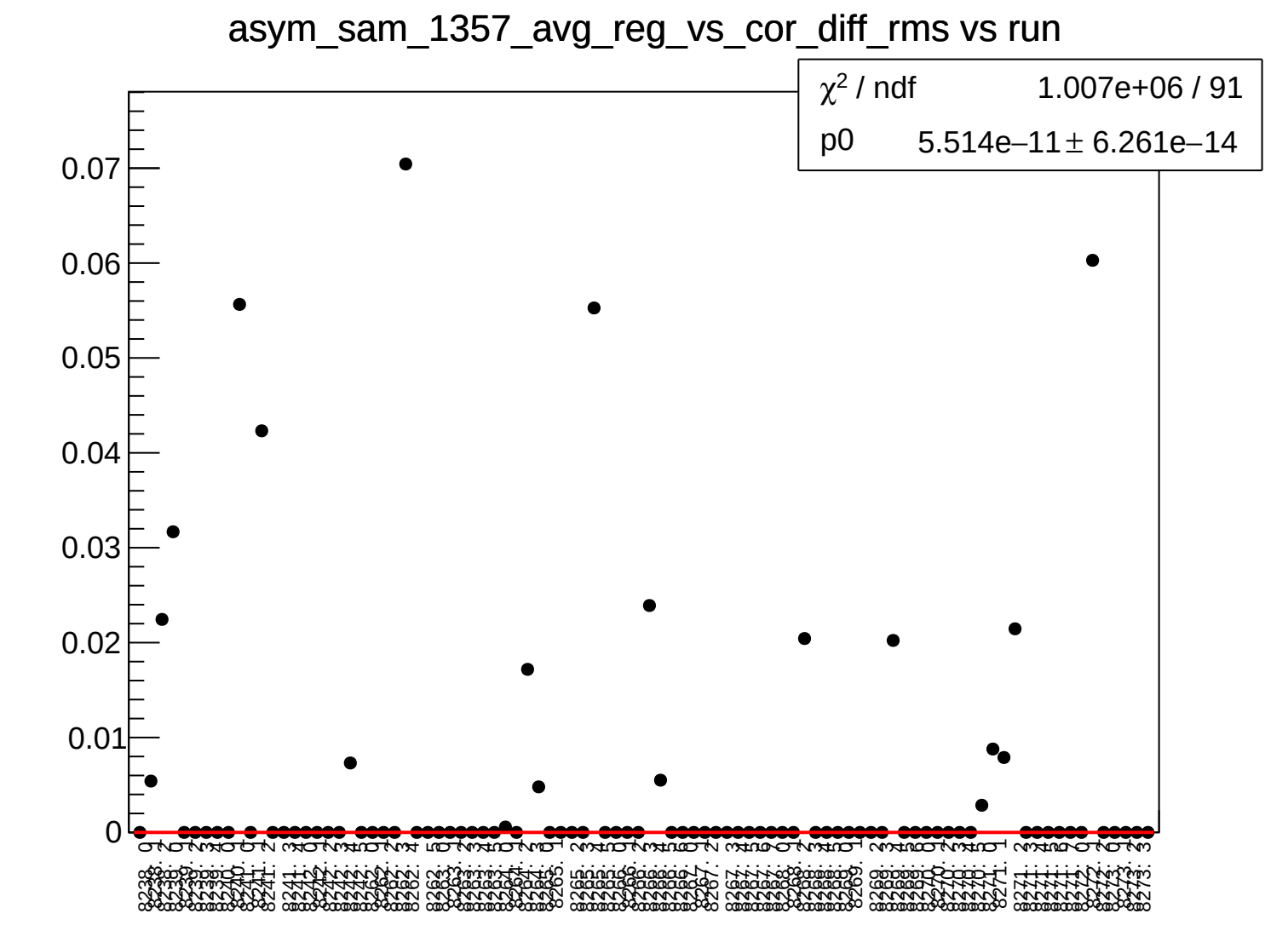

asym_sam_1357_avg_mean vs run
χ² / ndf 74.02 / 91
p0 3741 ± 1142
pull
Entries 92
Mean −1.191e+04
Std Dev 0

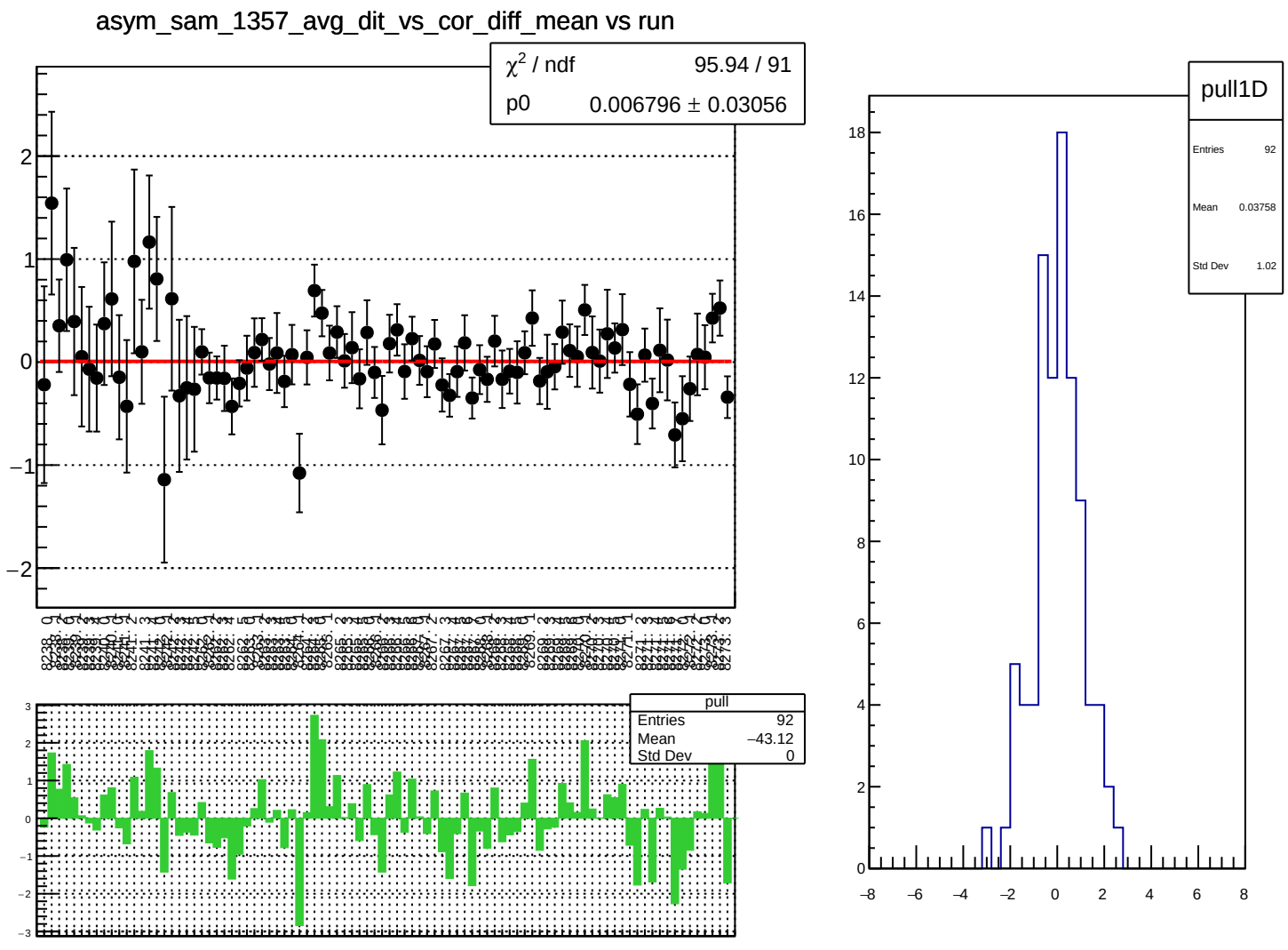

pull1D
Entries 92
Mean 0.0004833
Std Dev 0.8969

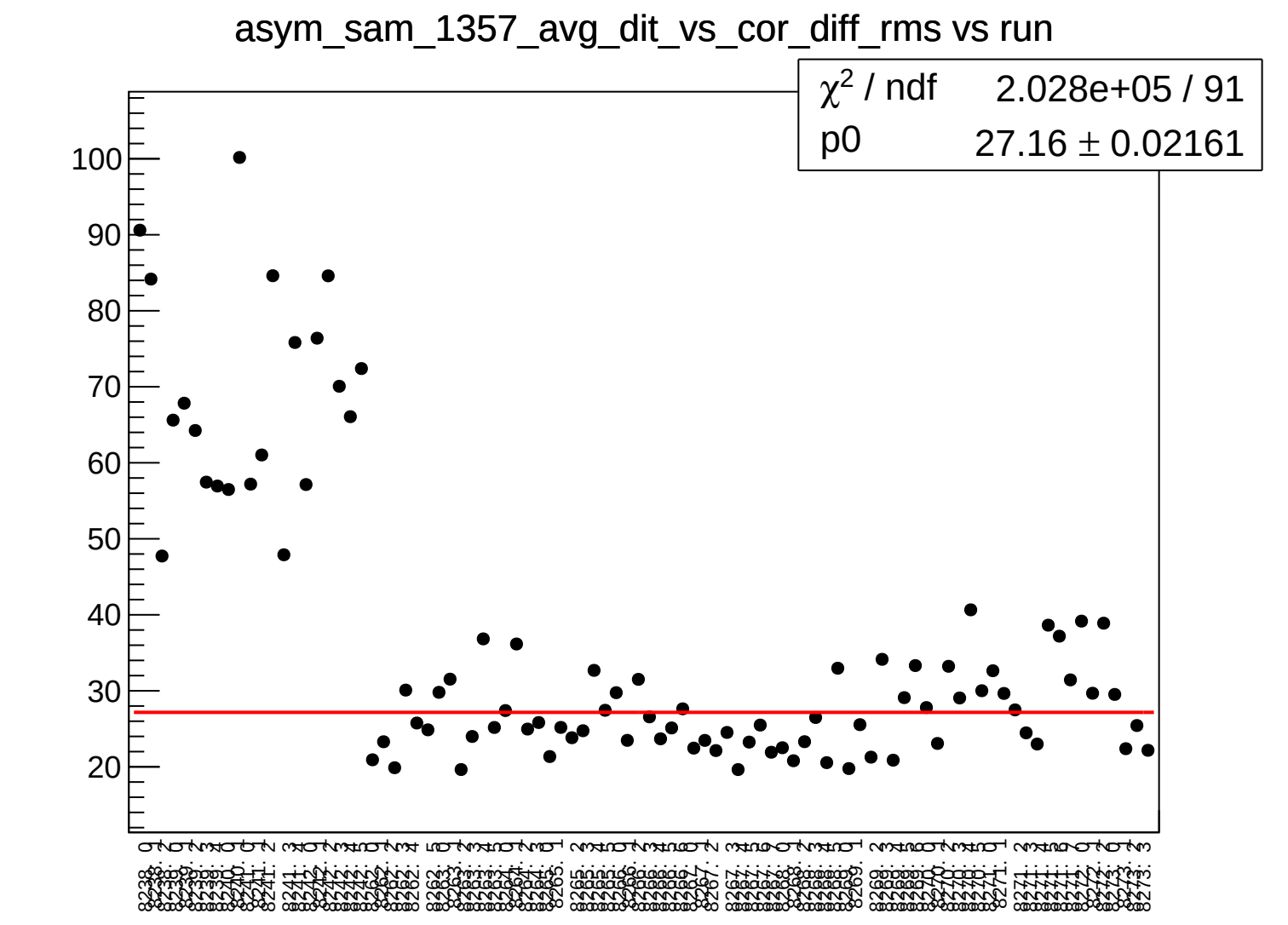

asym_sam_1357_avg_rms vs run
χ² / ndf 7026 / 91
p0 1076 ± 0.8074
1300
1250
1200
1150
1100
1050
1000
950

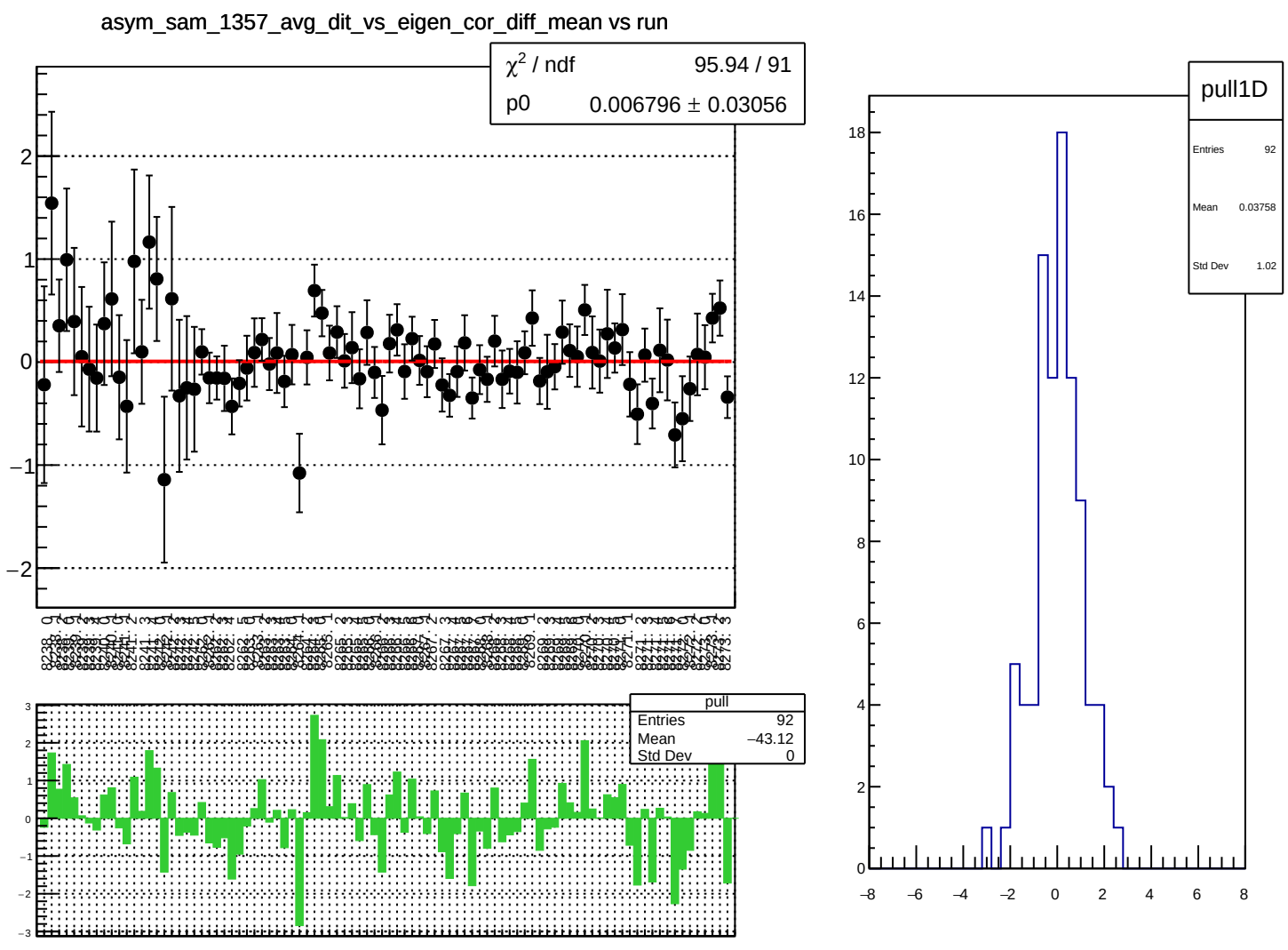

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.23 / 91
p0 −6.675e−14 ± 8.854e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 92
Mean 32.73
Std Dev 28.46
2
1
0
−1
−2

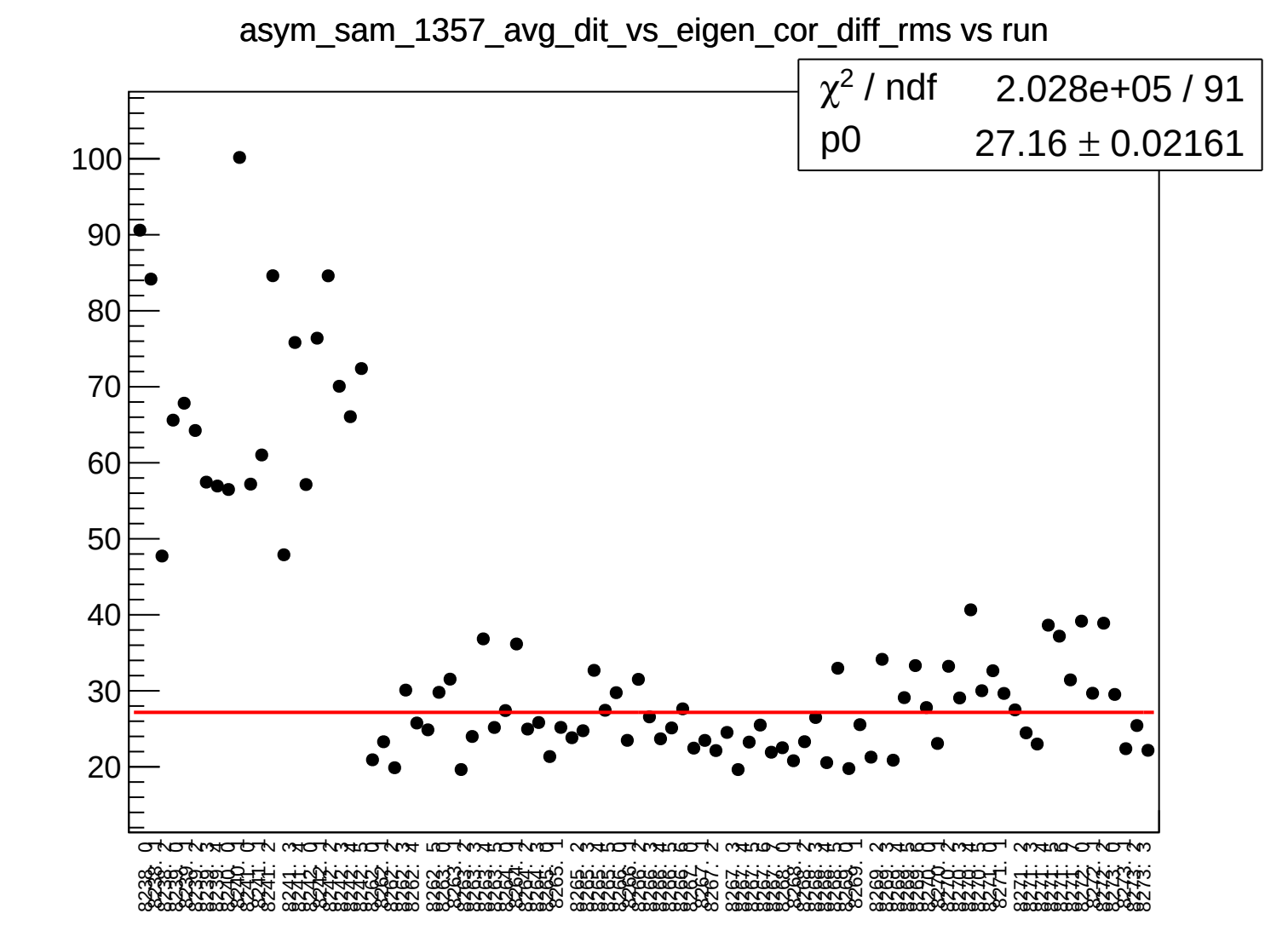

pull1D
Entries 92
Mean 0.1591
Std Dev 0.9493
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

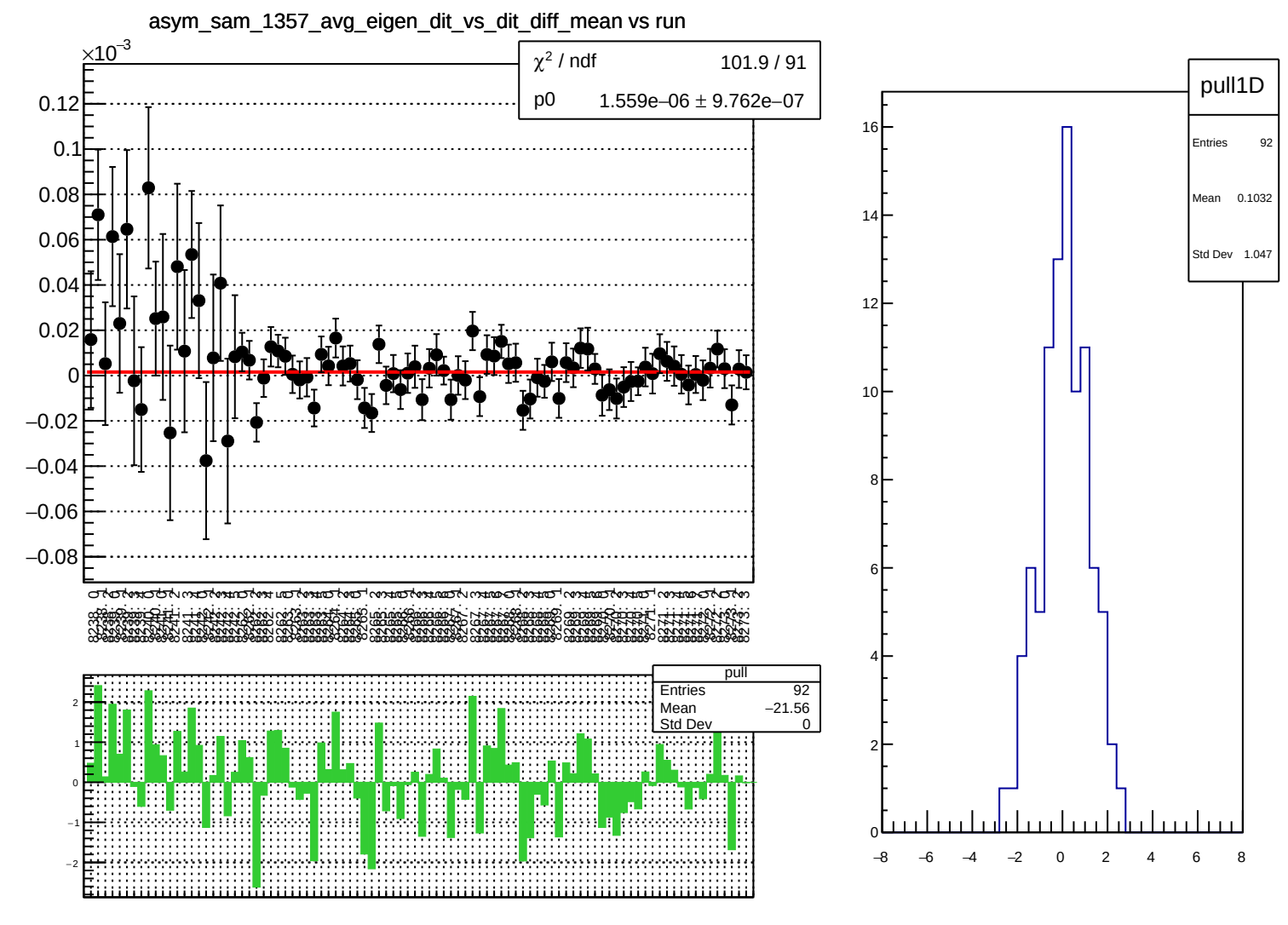

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.007e+06 / 91
p0 5.514e−11 ± 6.261e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

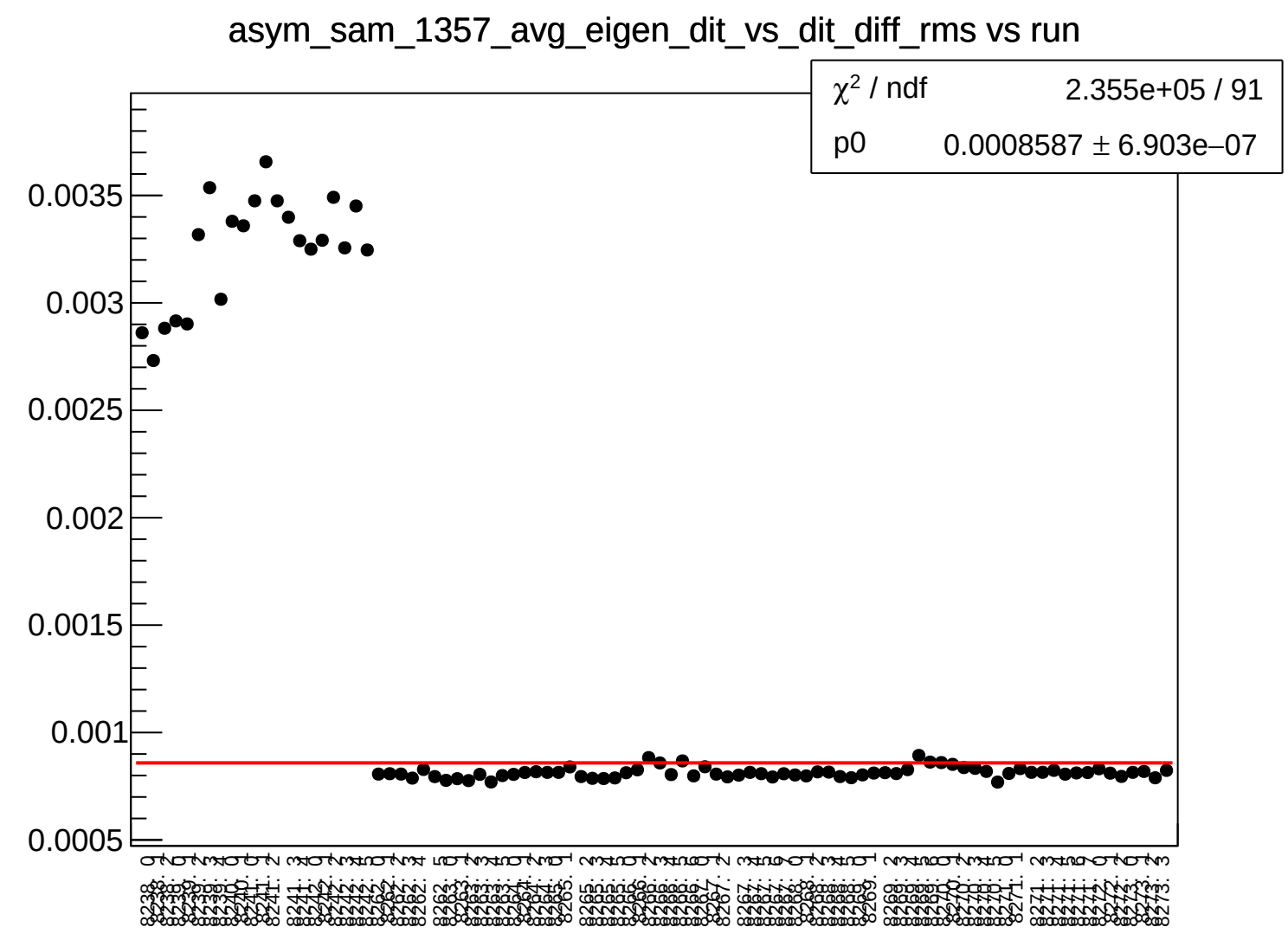

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.94 / 91
p0 0.006796 ± 0.03056
pull
Entries 92
Mean −43.12
Std Dev 0
pull1D
Entries 92
Mean 0.03758
Std Dev 1.02

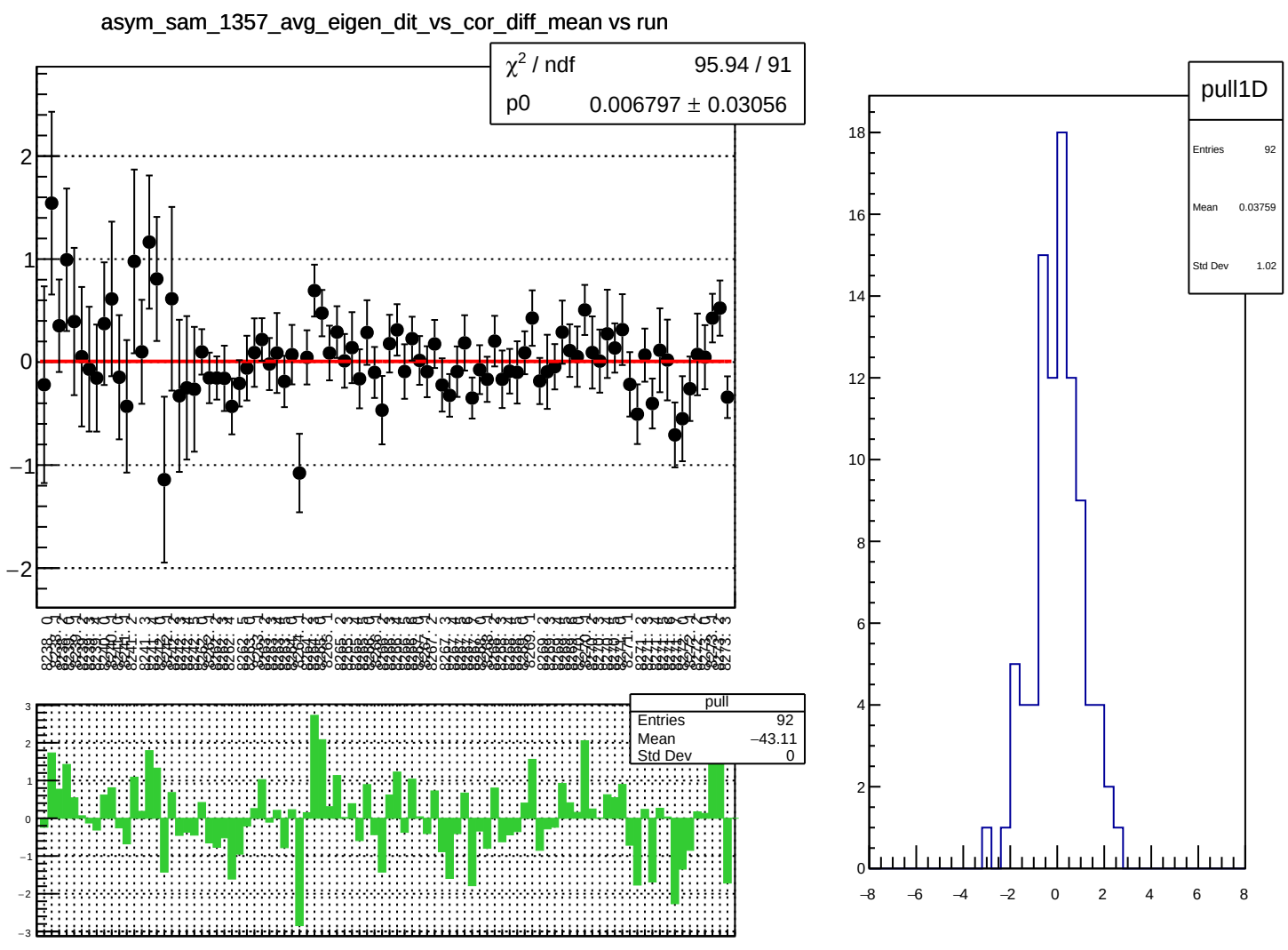

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.028e+05 / 91
p0 27.16 ± 0.02161
100
90
80
70
60
50
40
30
20

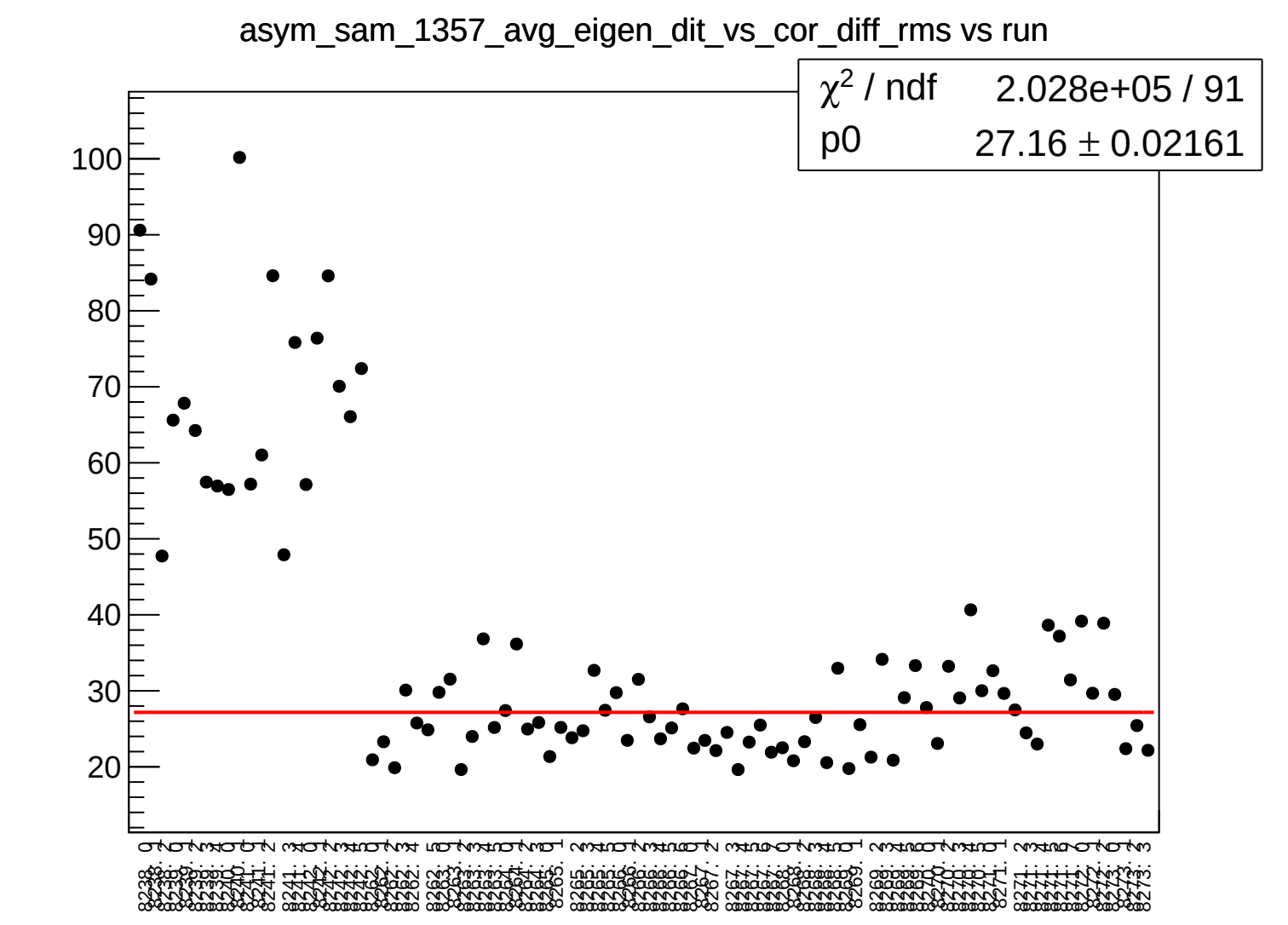

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.94 / 91
p0 0.006796 ± 0.03056
pull
Entries 92
Mean −43.12
Std Dev 0
pull1D
Entries 92
Mean 0.03758
Std Dev 1.02

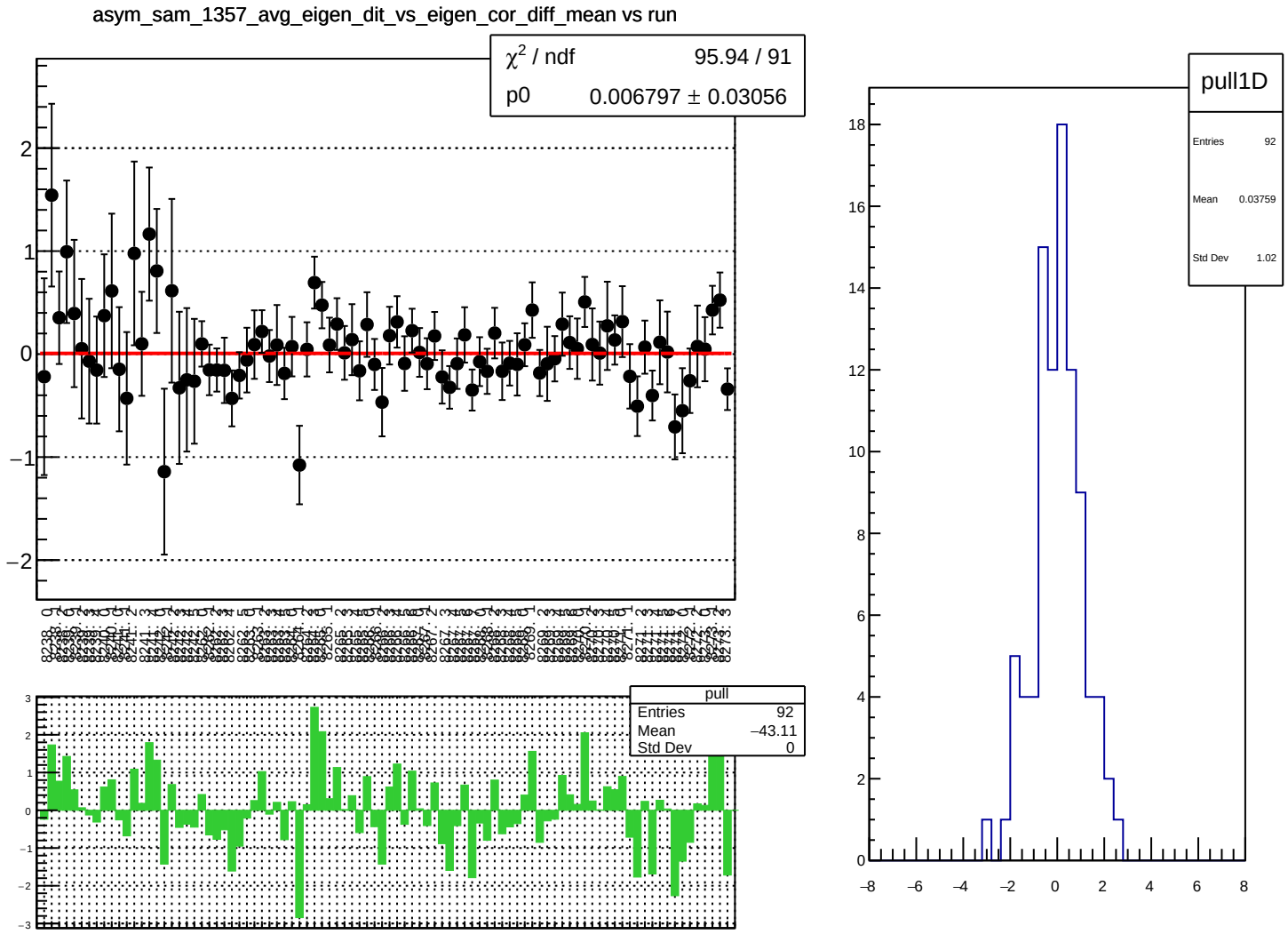

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.028e+05 / 91
p0 27.16 ± 0.02161
100
90
80
70
60
50
40
30
20

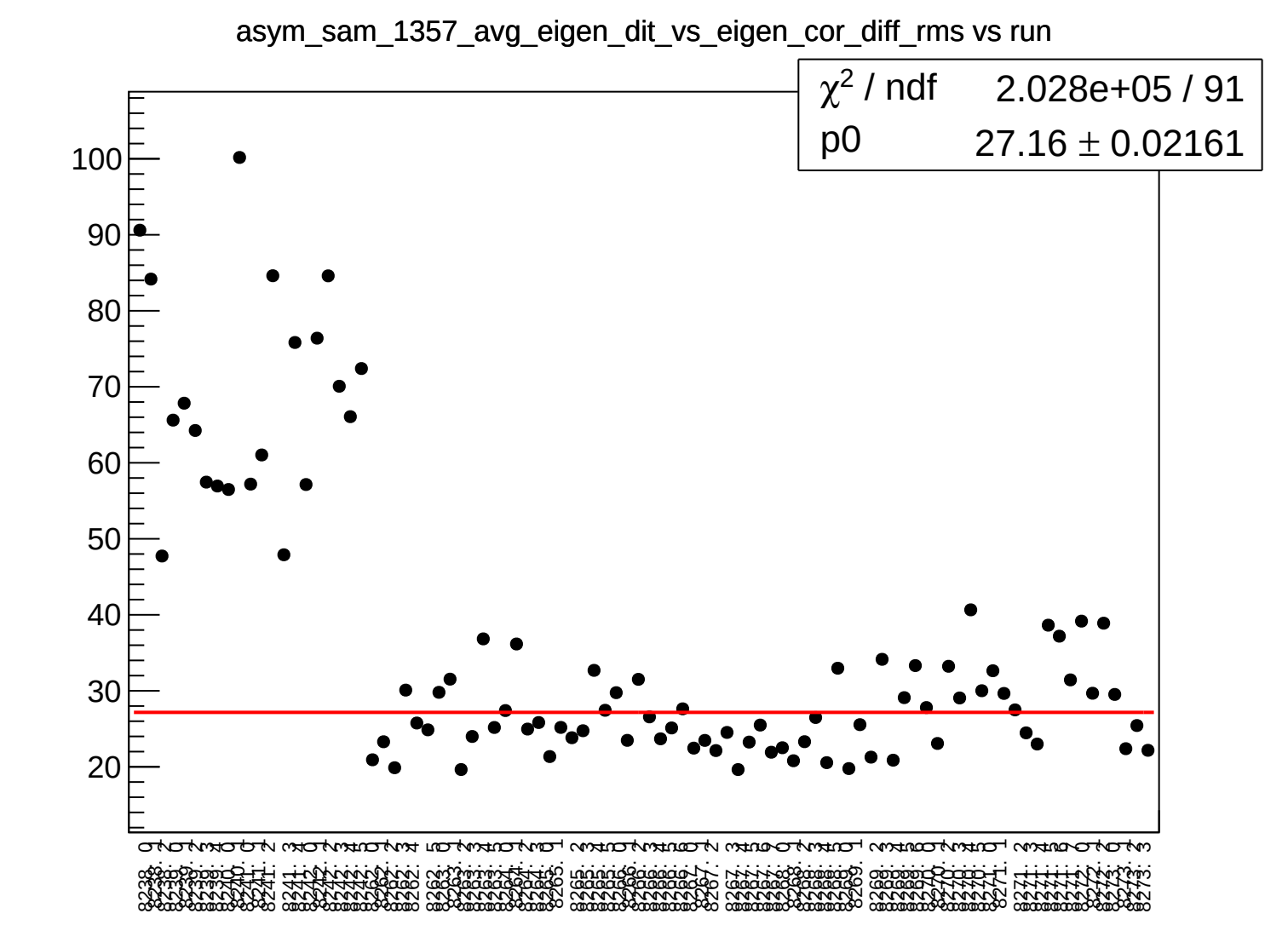

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.9 / 91
p0 1.559e−06 ± 9.762e−07
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 92
Mean −21.56
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.1032
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

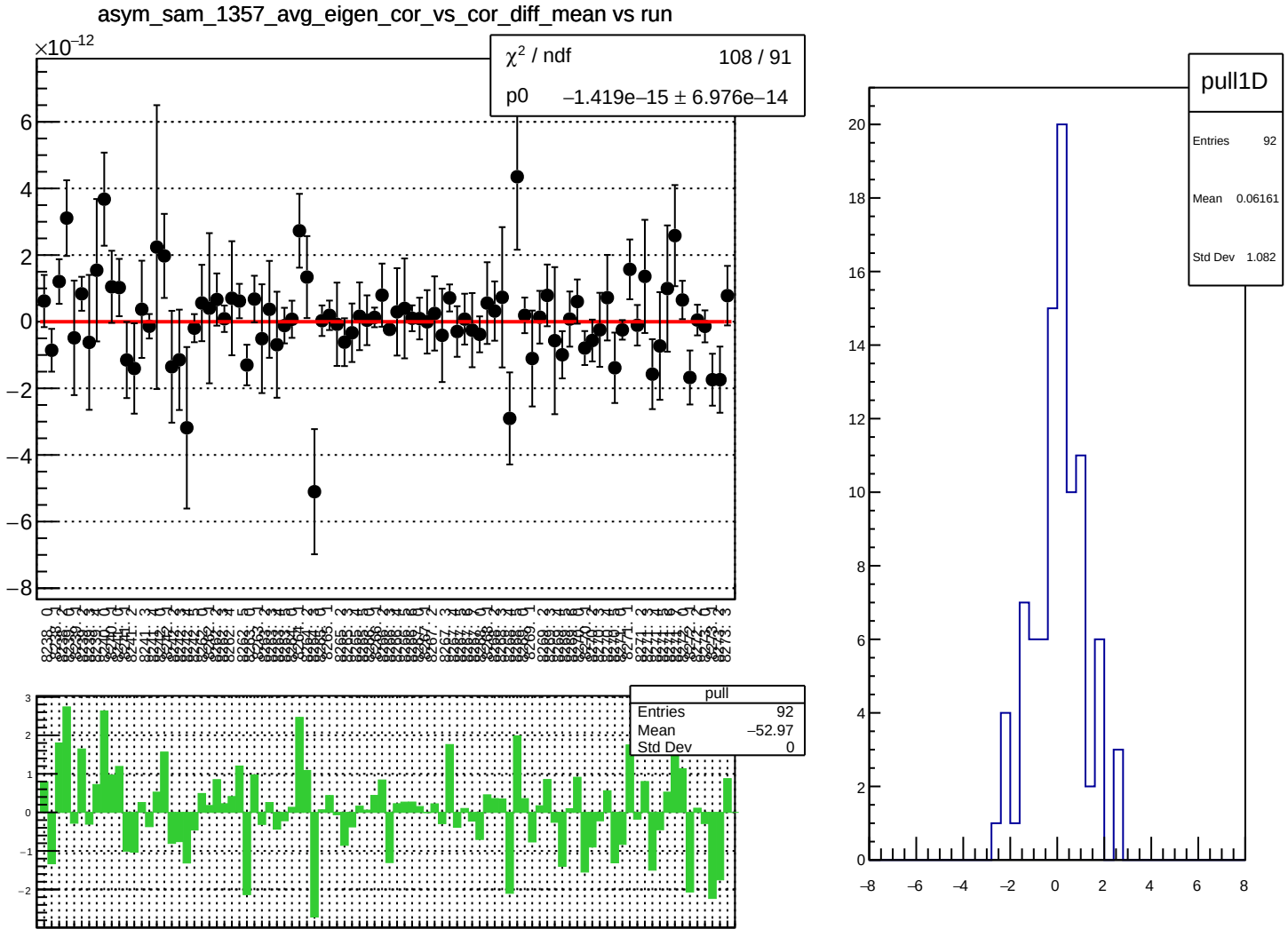

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.355e+05 / 91
p0 0.0008587 ± 6.903e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

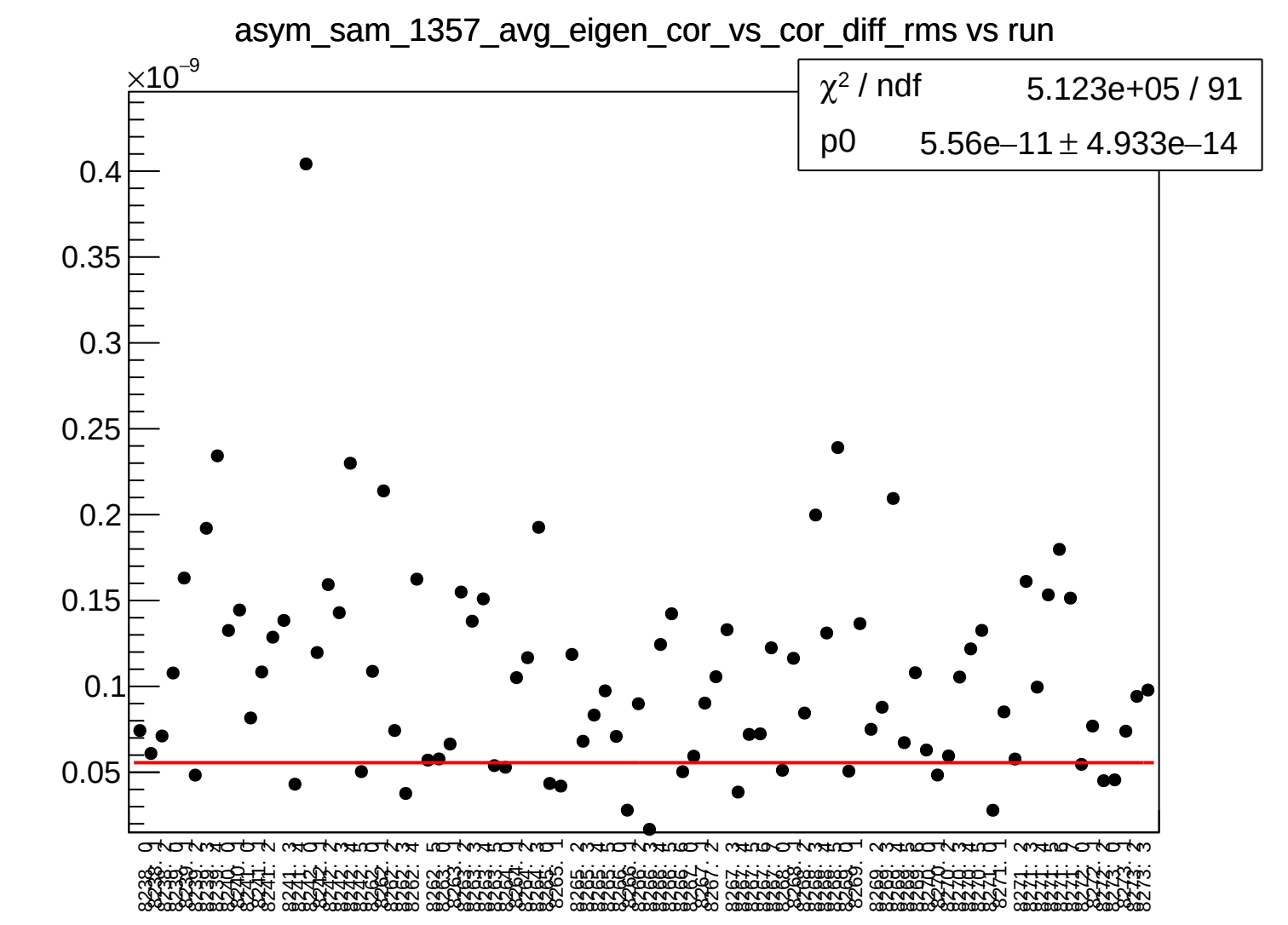

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.94 / 91
p0 0.006797 ± 0.03056
pull
Entries 92
Mean −43.11
Std Dev 0
pull1D
Entries 92
Mean 0.03759
Std Dev 1.02

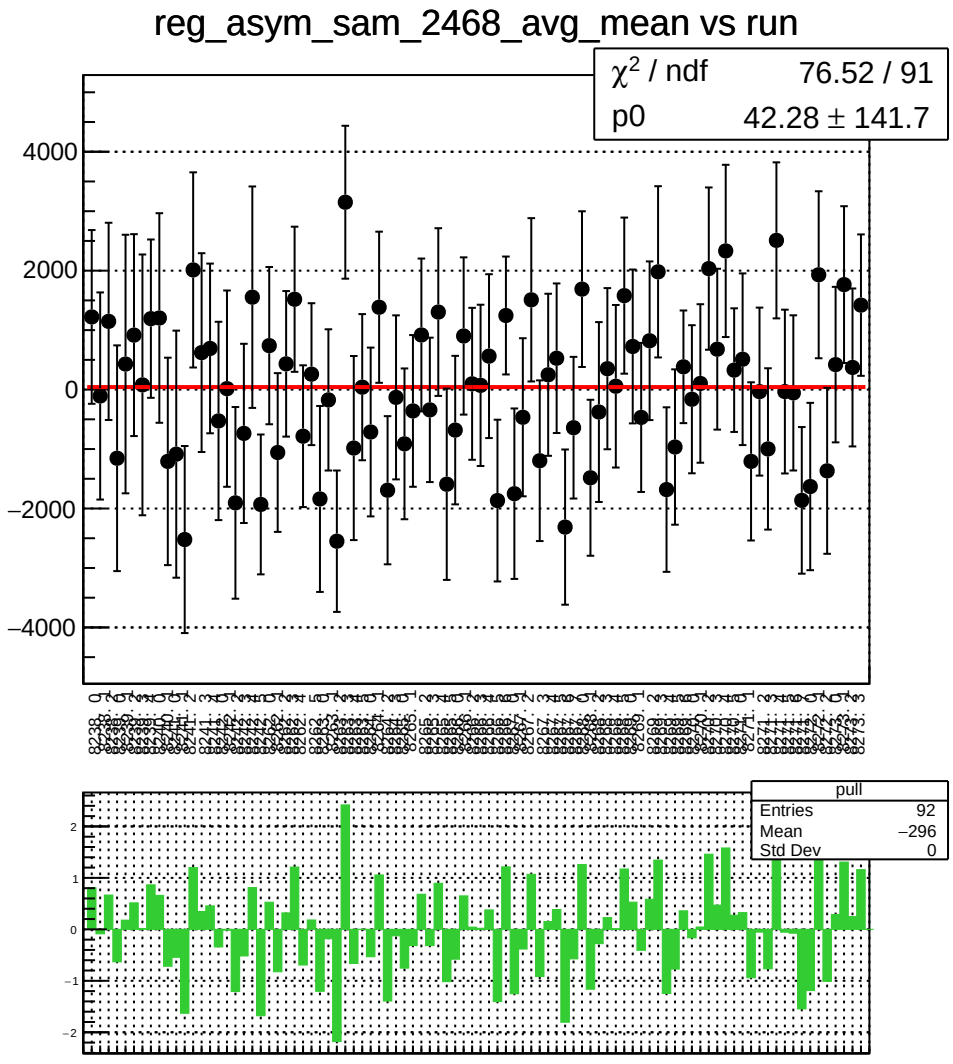

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 2.028e+05 / 91
p0 27.16 ± 0.02161
100
90
80
70
60
50
40
30
20

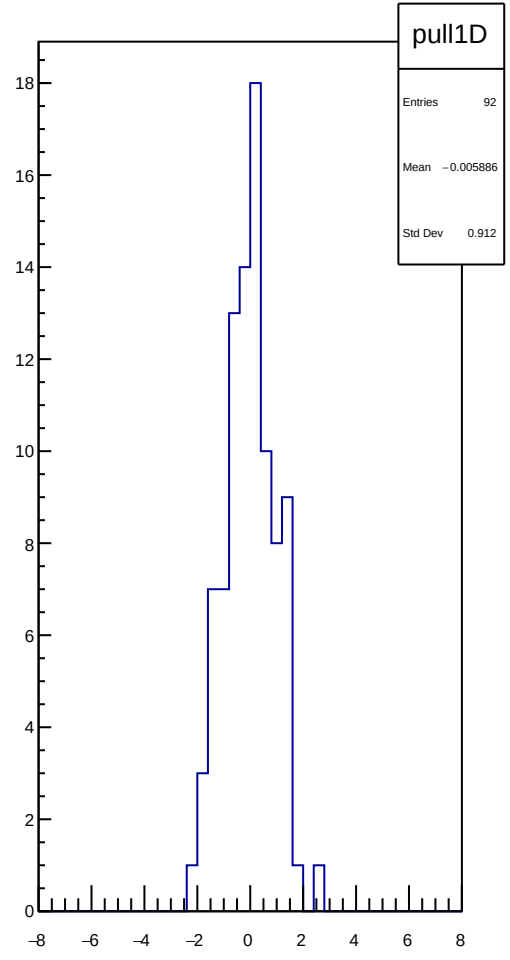

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.94 / 91
p0 0.006797 ± 0.03056
pull
Entries 92
Mean −43.11
Std Dev 0
pull1D
Entries 92
Mean 0.03759
Std Dev 1.02

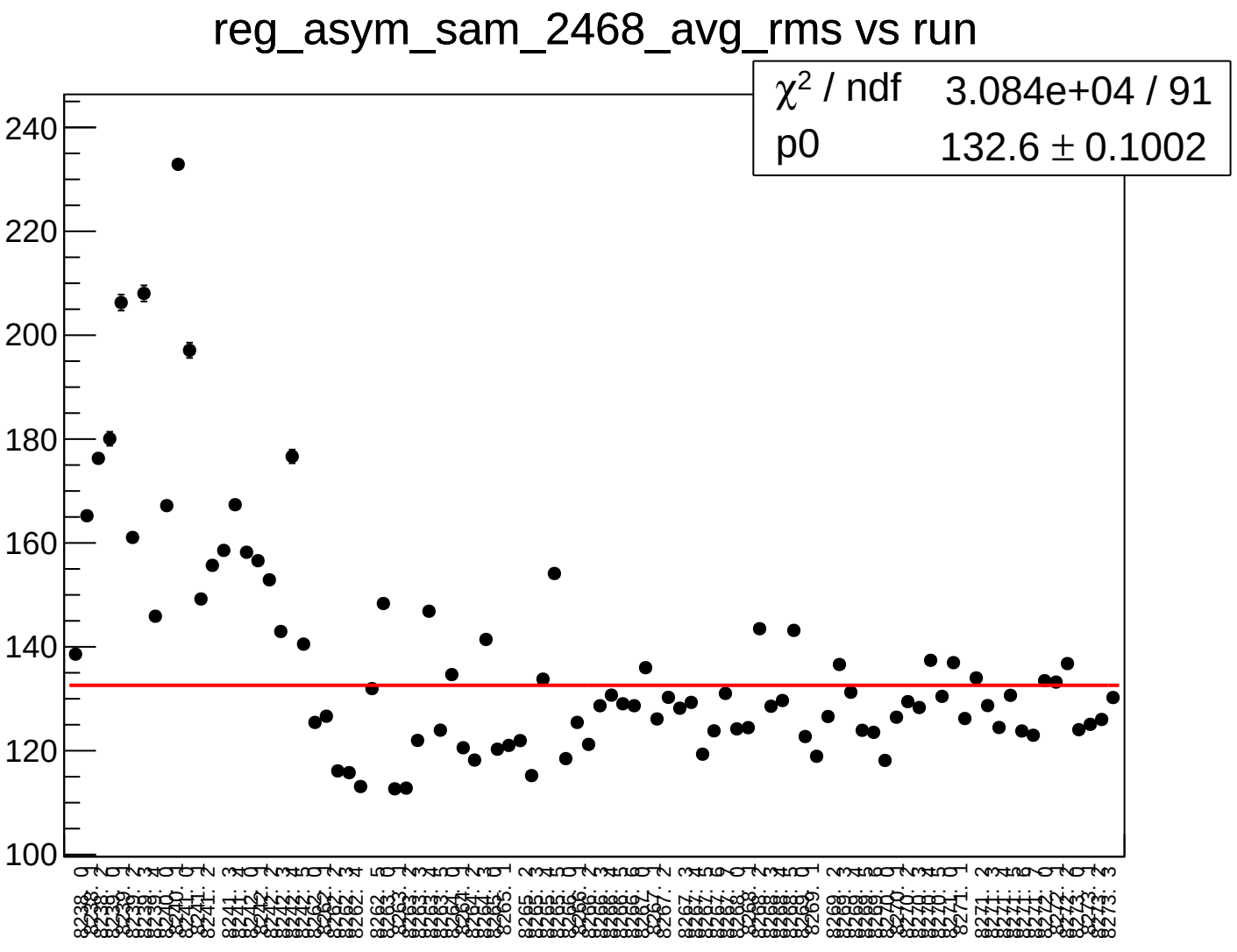

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.028e+05 / 91
p0 27.16 ± 0.02161
100
90
80
70
60
50
40
30
20

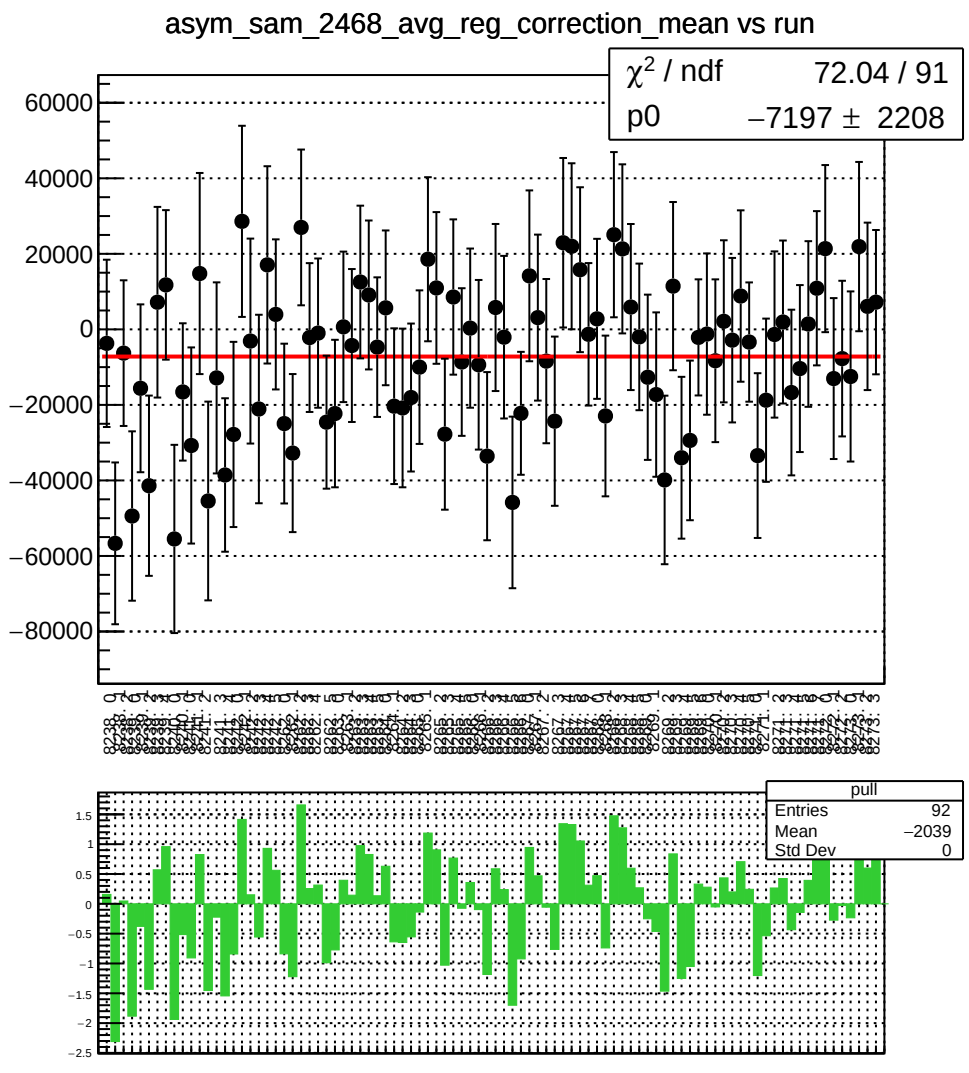

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108 / 91
p0 −1.419e−15 ± 6.976e−14
pull
Entries 92
Mean −52.97
Std Dev 0
pull1D
Entries 92
Mean 0.06161
Std Dev 1.082

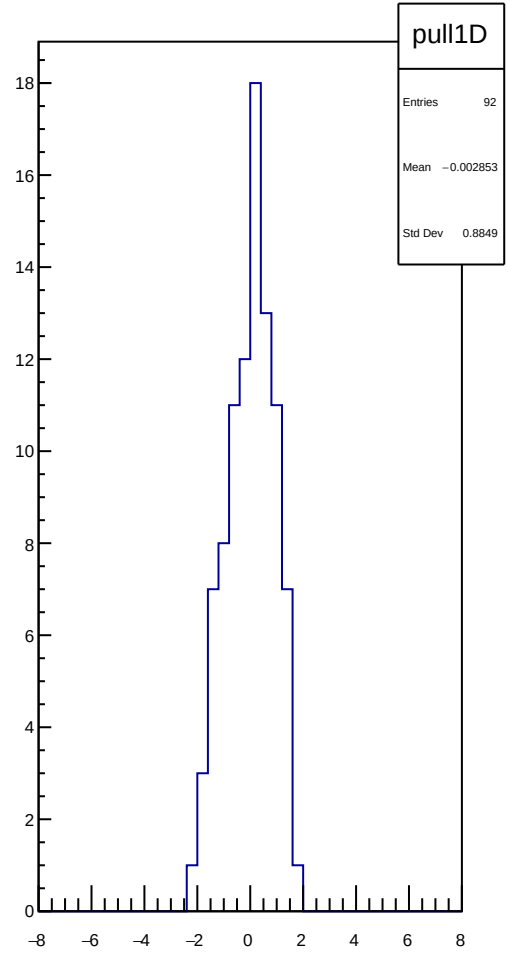

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.123e+05 / 91
p0 5.56e−11 ± 4.933e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

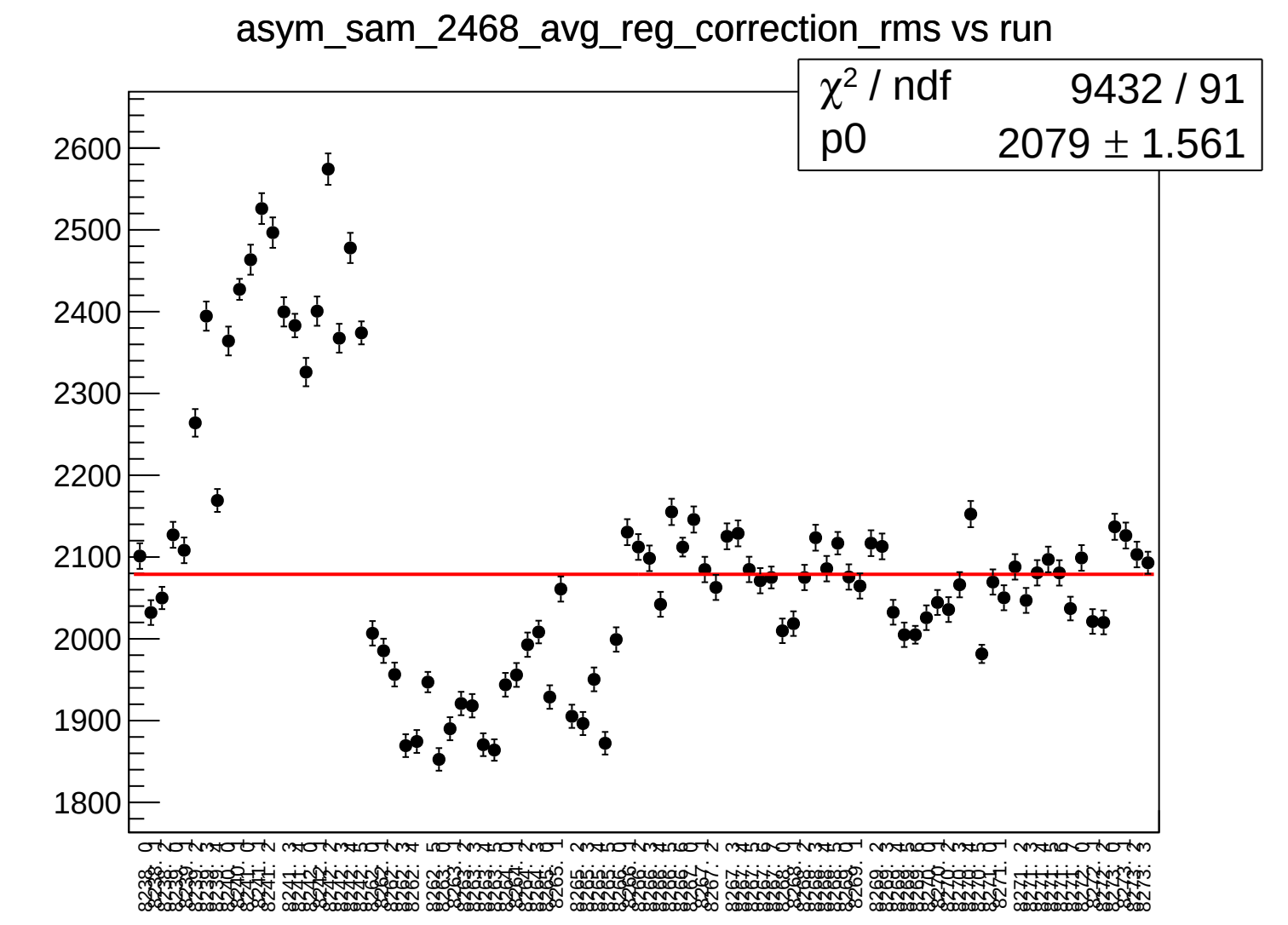

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 76.52 / 91
p0 42.28 ± 141.7
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −296
Std Dev 0
2
1
0
−1
−2

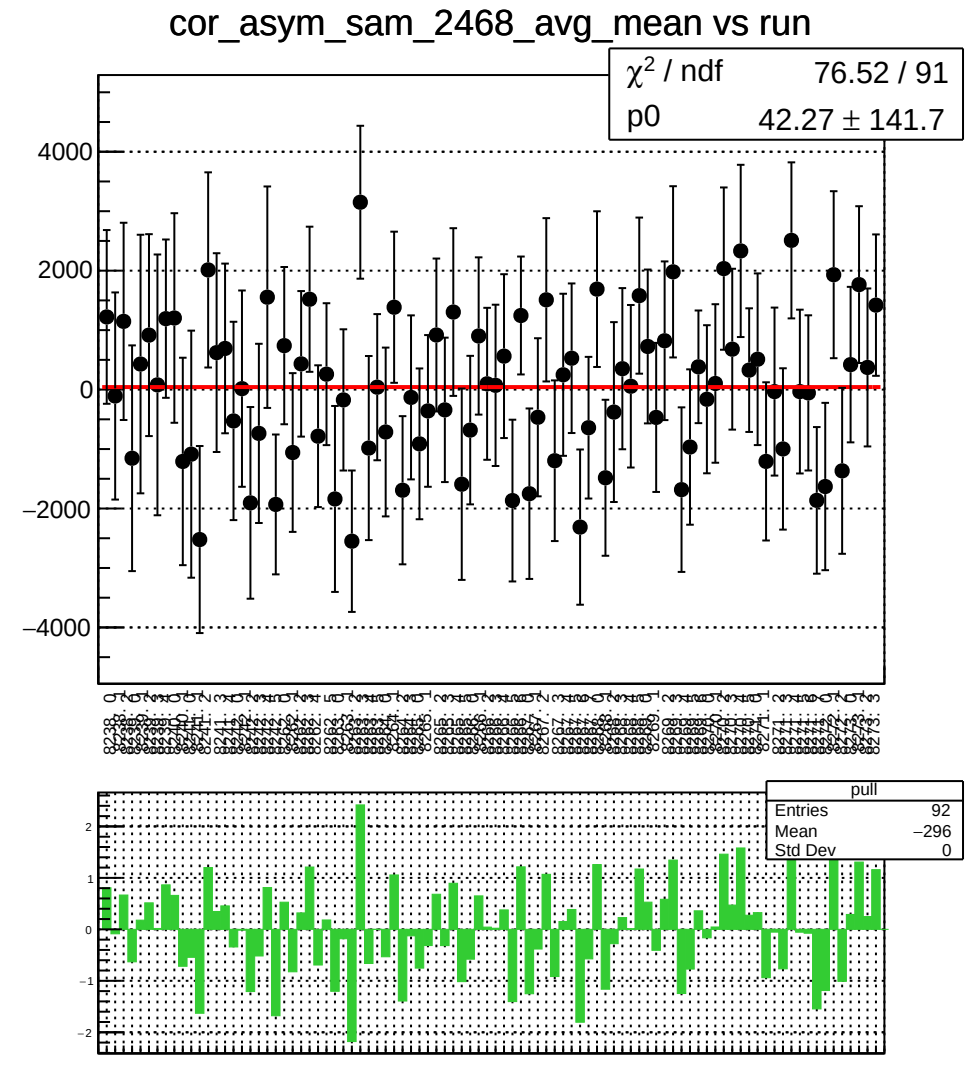

pull1D
Entries 92
Mean −0.005886
Std Dev 0.912
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

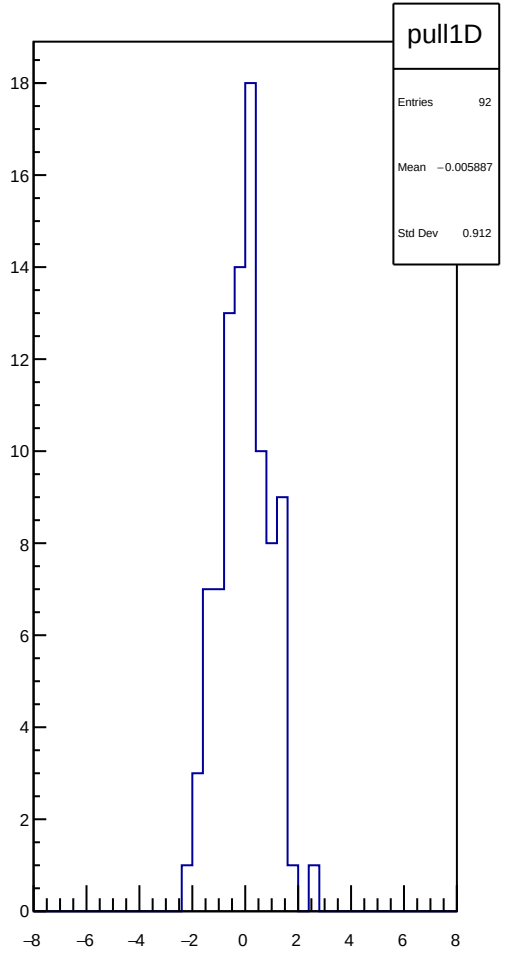

reg_asym_sam_2468_avg_rms vs run
$\chi^2$ / ndf 3.084e+04 / 91
p0 132.6 ± 0.1002
240
220
200
180
160
140
120
100

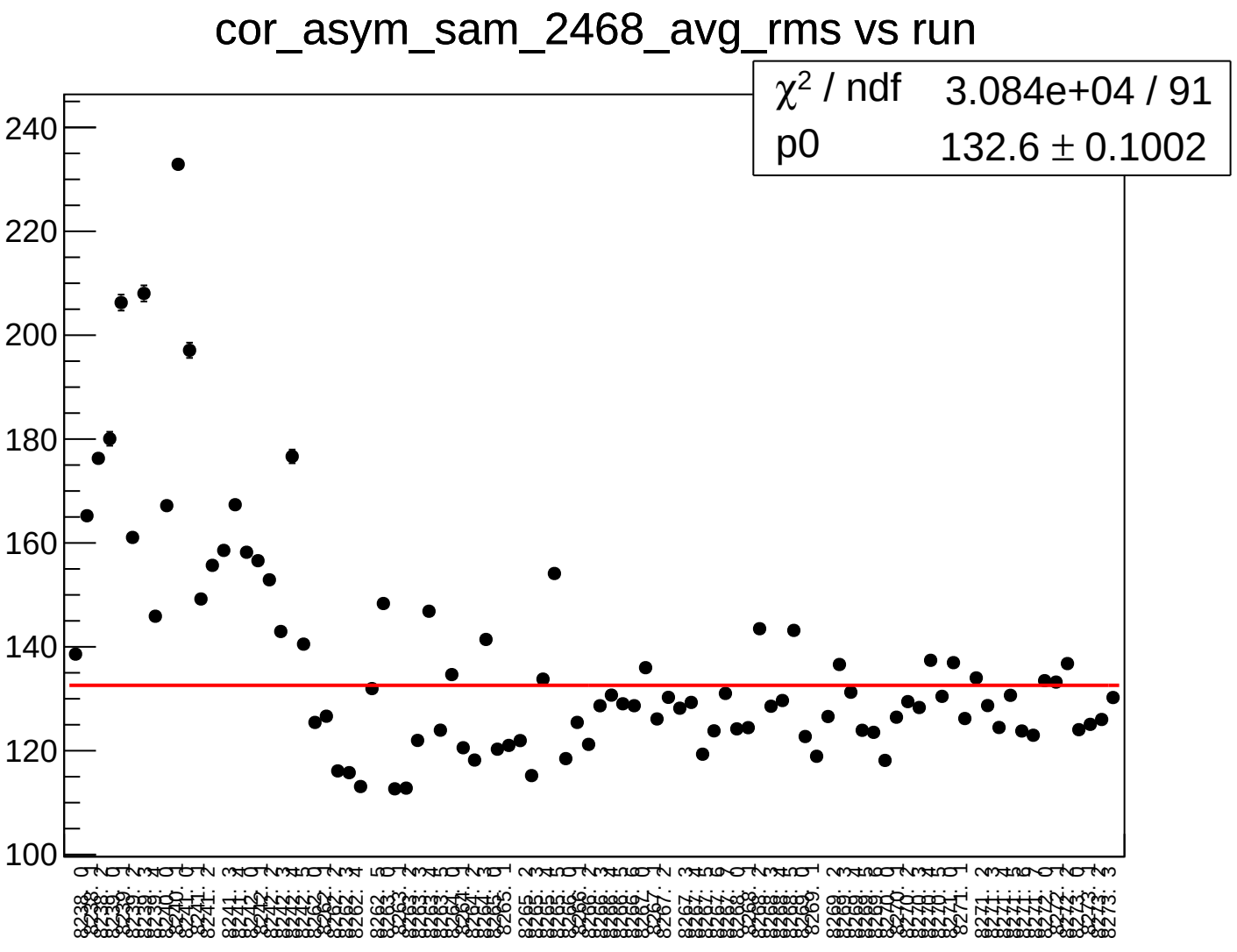

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 72.04 / 91
p0 −7197 ± 2208
pull
Entries 92
Mean −2039
Std Dev 0

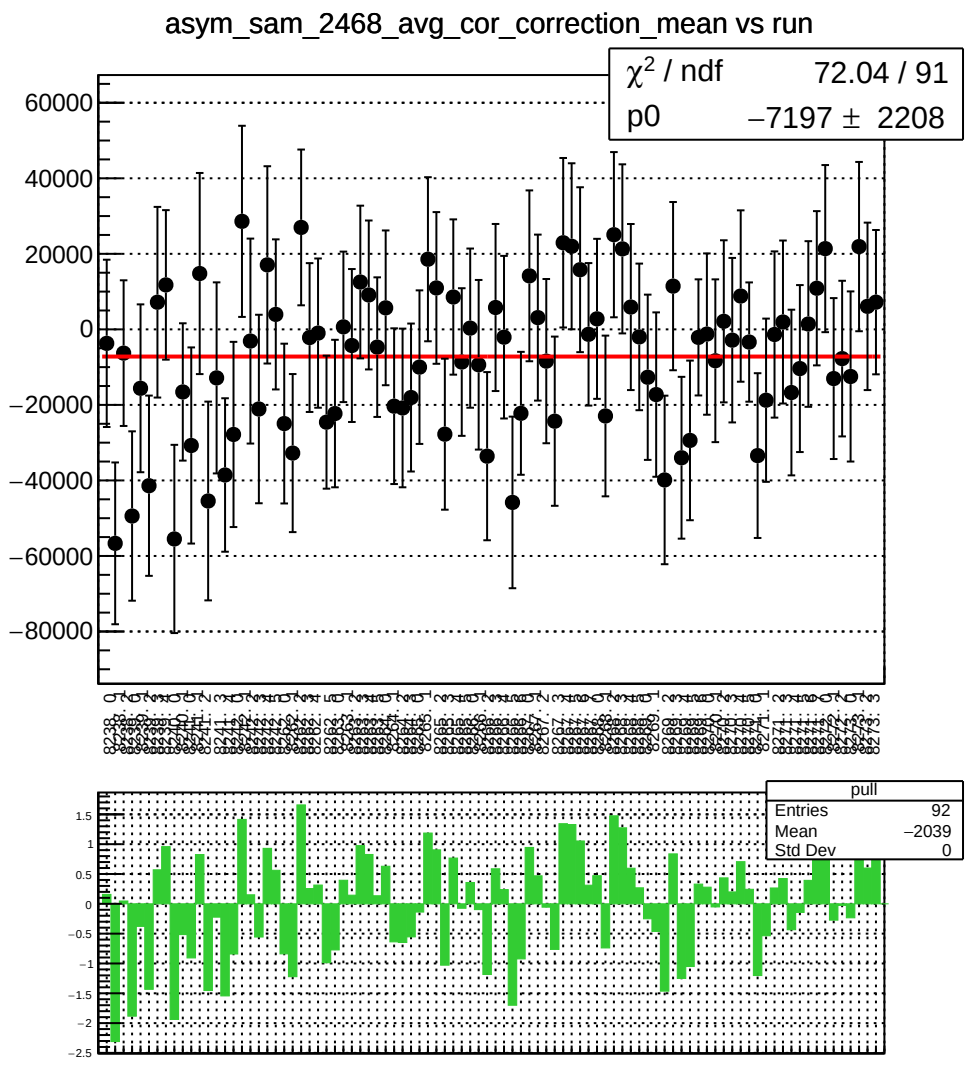

pull1D
Entries 92
Mean −0.002853
Std Dev 0.8849

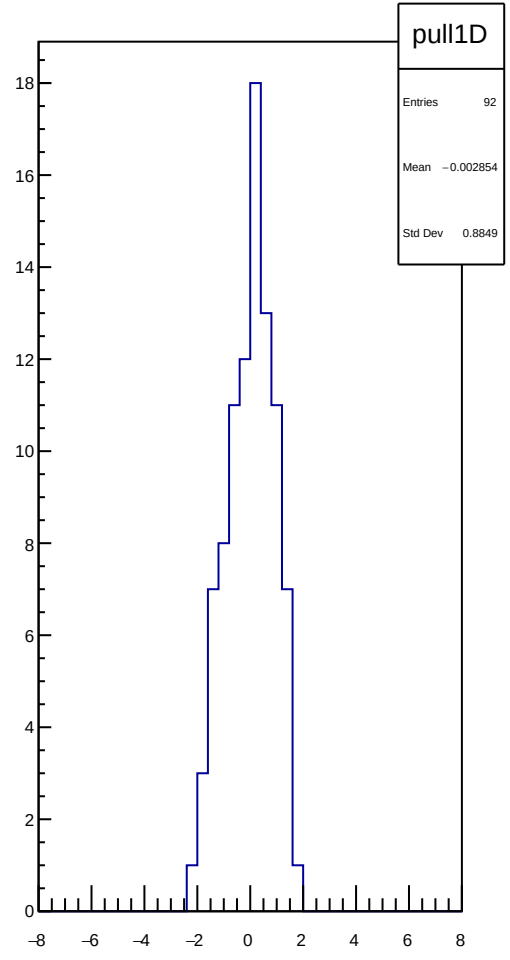

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 9432 / 91
p0 2079 ± 1.561
2600
2500
2400
2300
2200
2100
2000
1900
1800

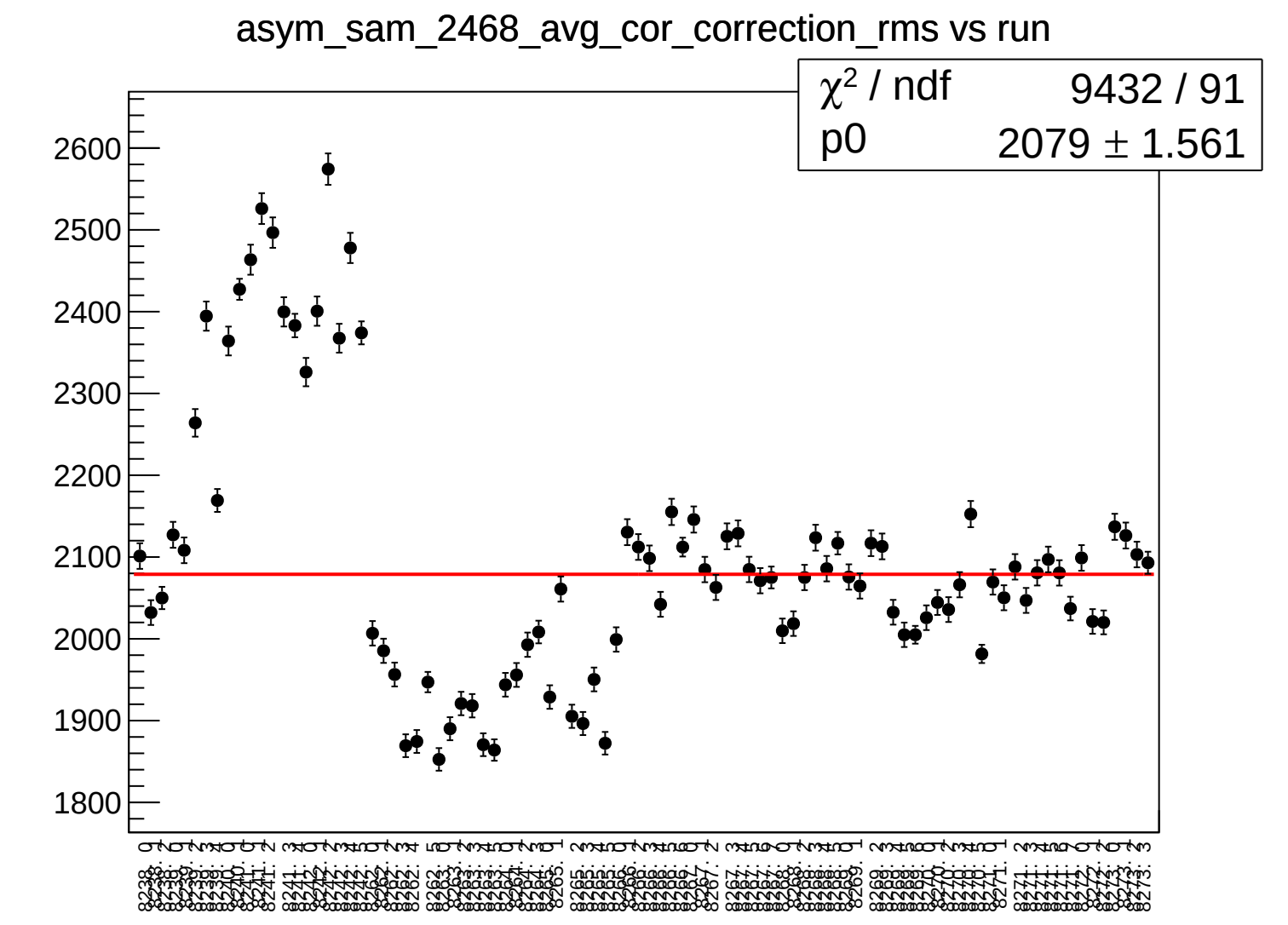

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 76.52 / 91
p0 42.27 ± 141.7
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −296
Std Dev 0
2
1
0
−1
−2

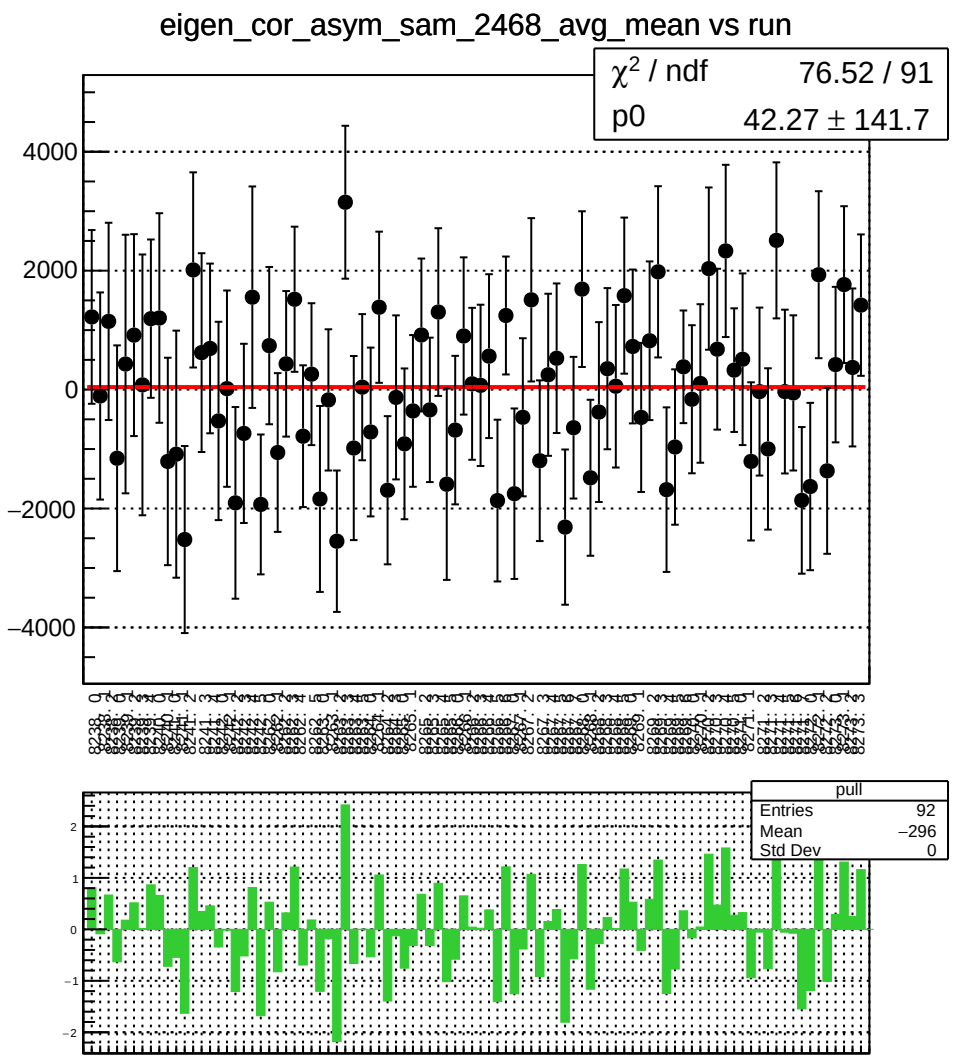

pull1D
Entries 92
Mean −0.005887
Std Dev 0.912
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

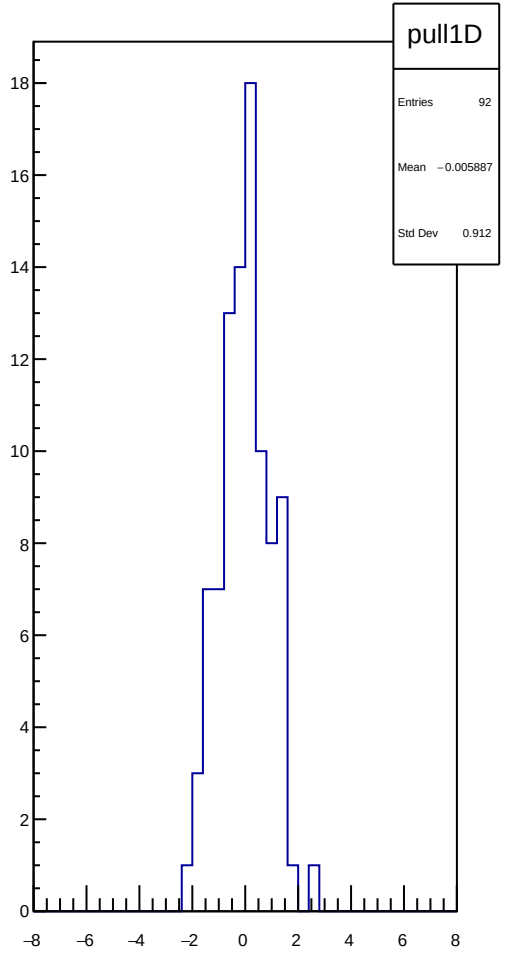

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 3.084e+04 / 91
p0 132.6 ± 0.1002
240
220
200
180
160
140
120
100

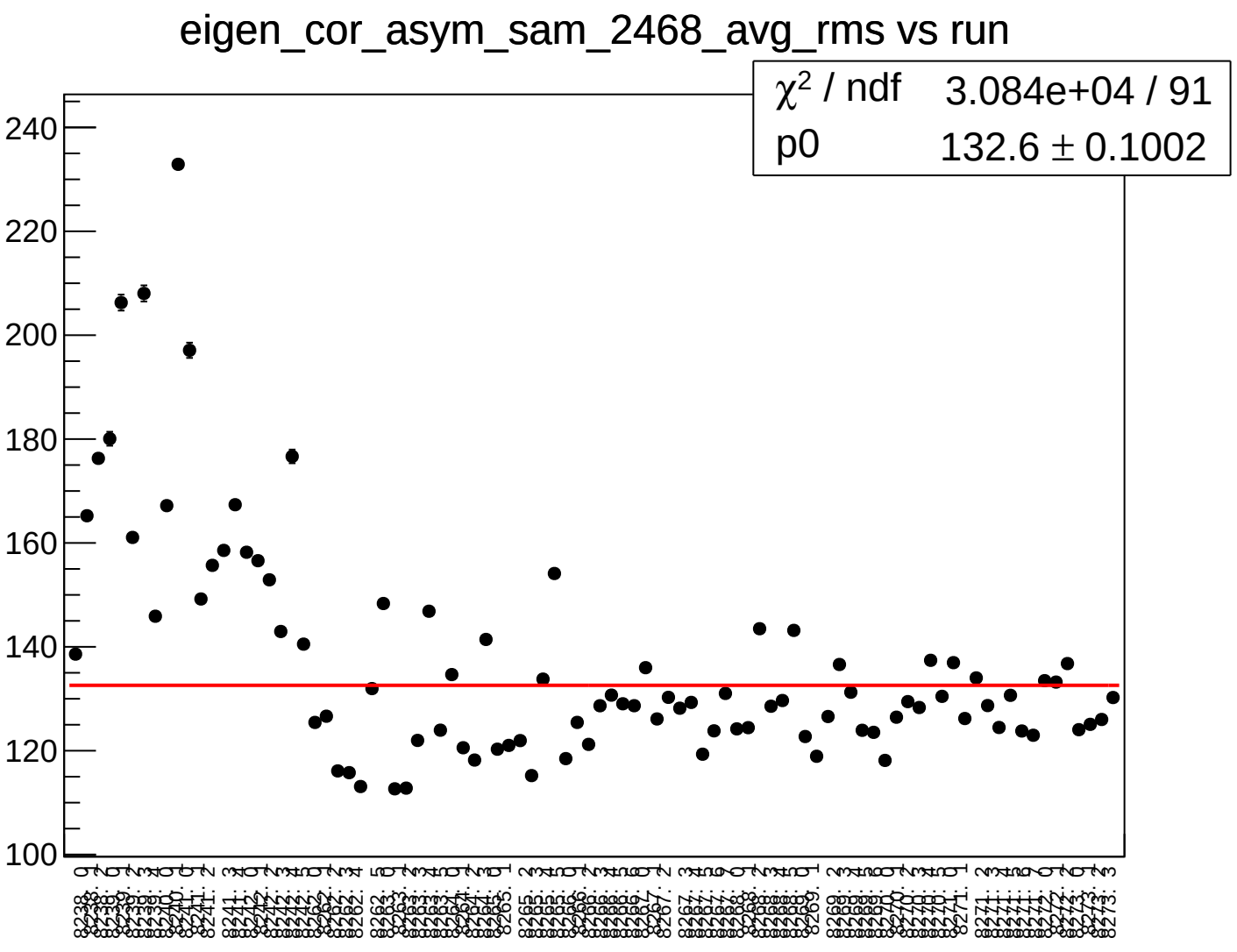

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 72.04 / 91
p0 −7197 ± 2208
pull
Entries 92
Mean −2039
Std Dev 0

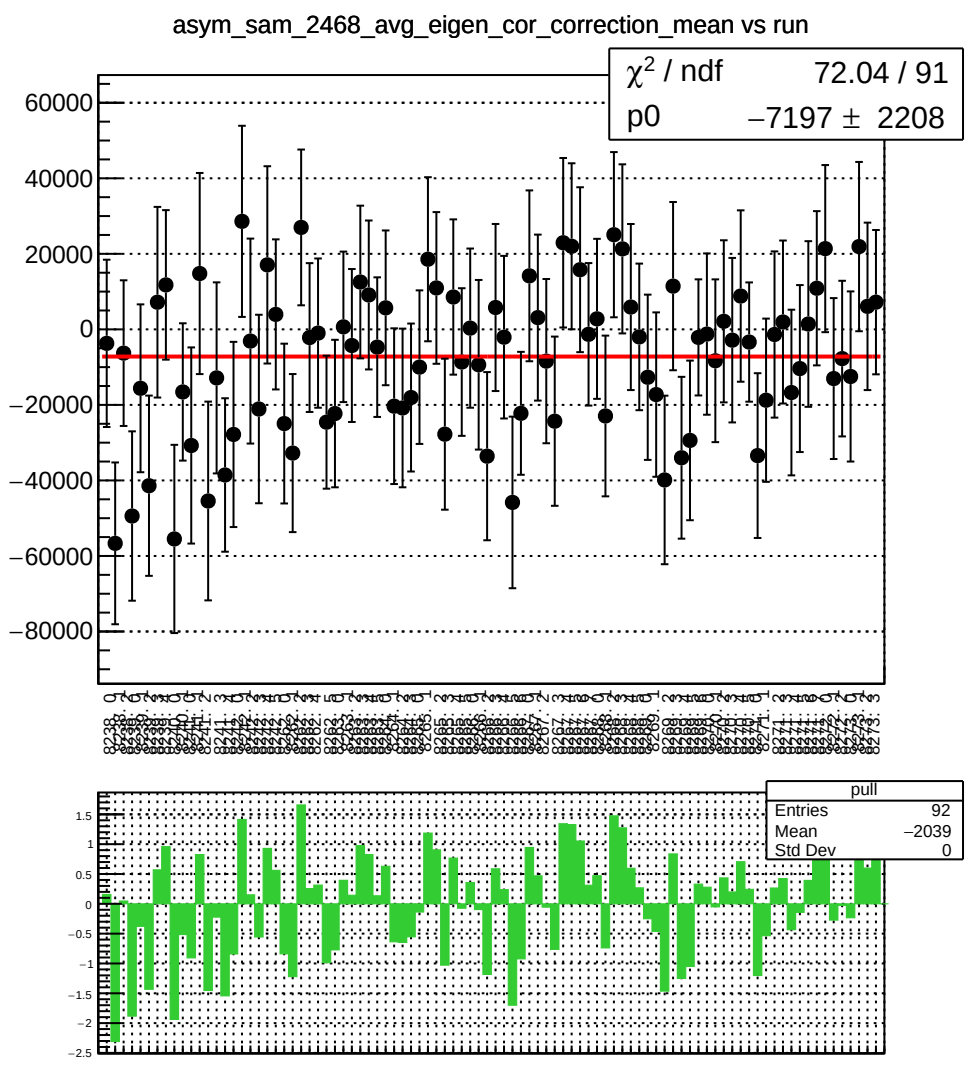

pull1D
Entries 92
Mean −0.002854
Std Dev 0.8849

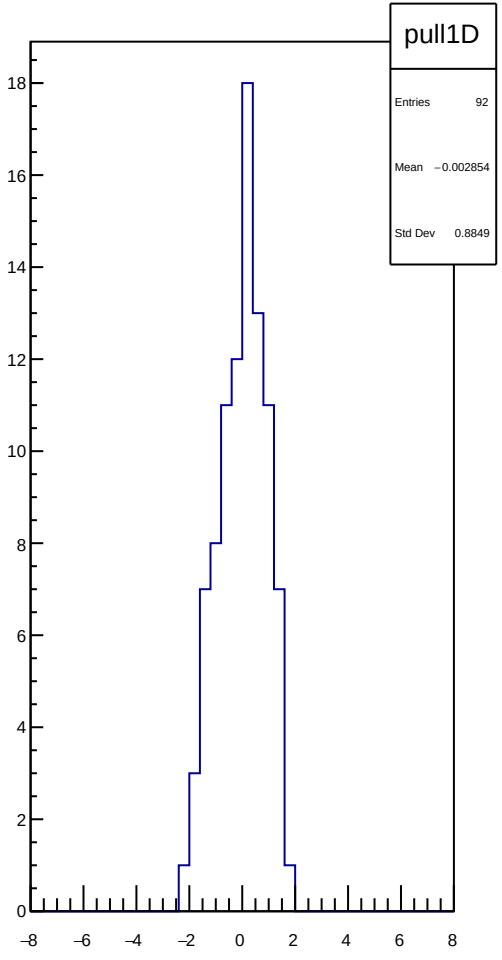

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 9432 / 91
p0 2079 ± 1.561
2600
2500
2400
2300
2200
2100
2000
1900
1800

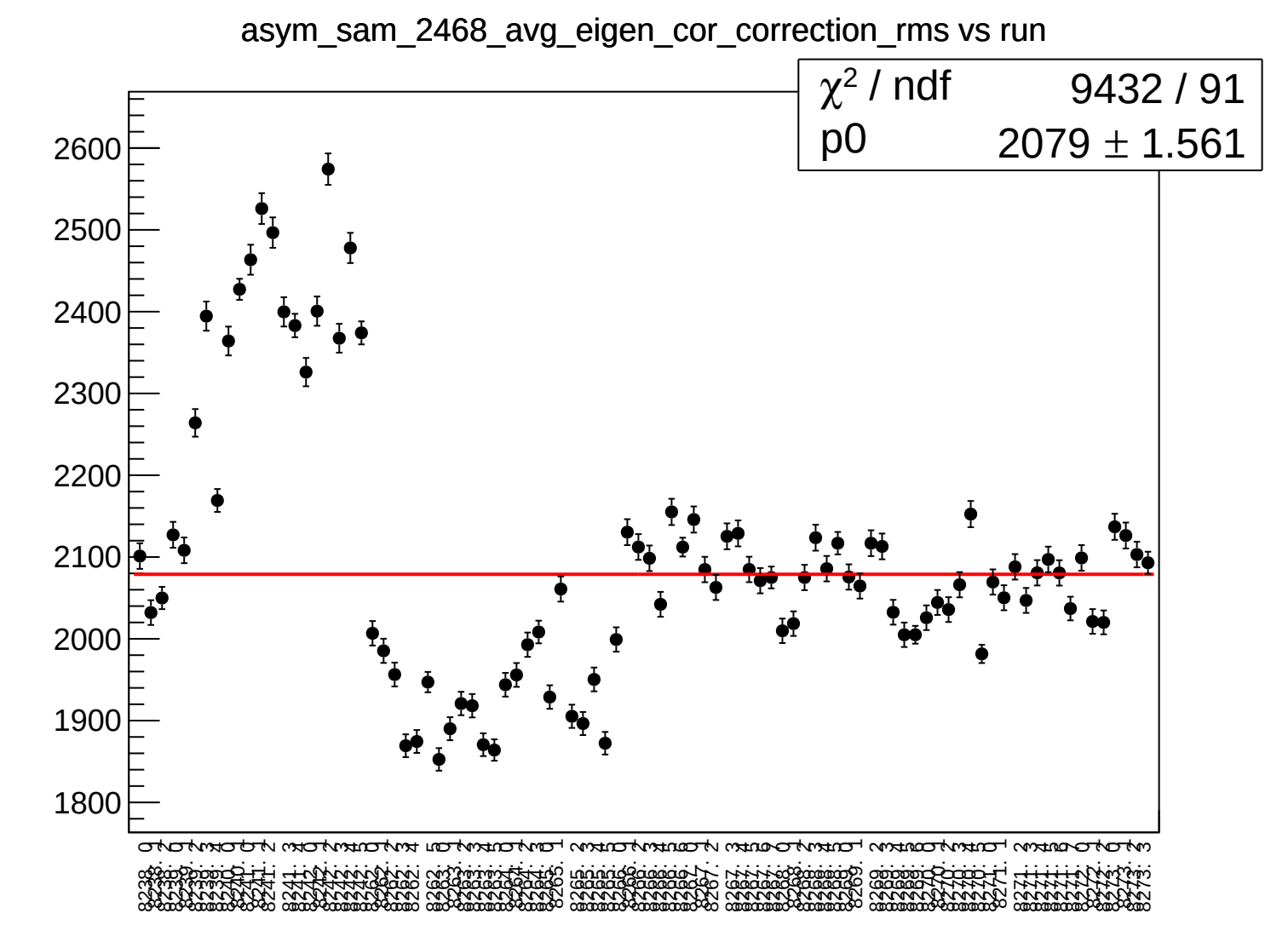

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 76.52 / 91
p0 42.27 ± 141.7
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −296
Std Dev 0
2
1
0
−1
−2

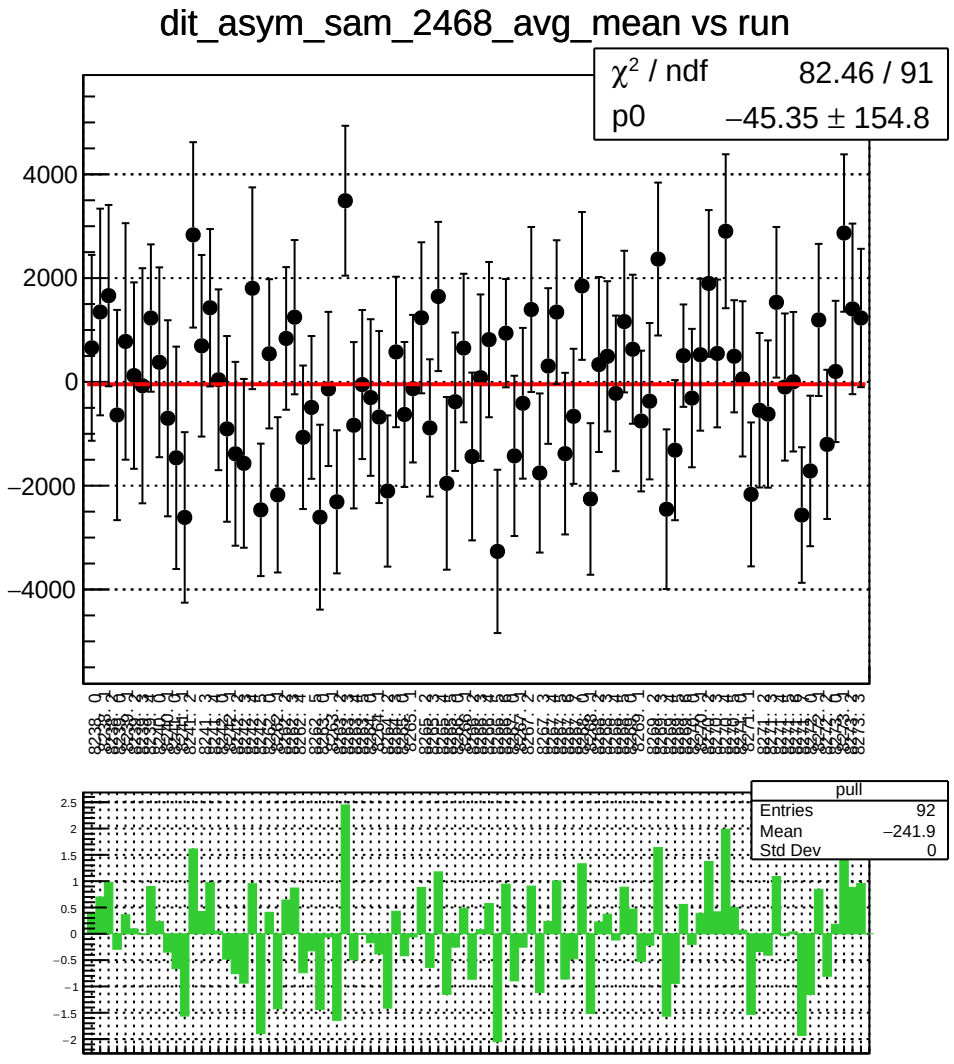

pull1D
Entries 92
Mean −0.005887
Std Dev 0.912
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

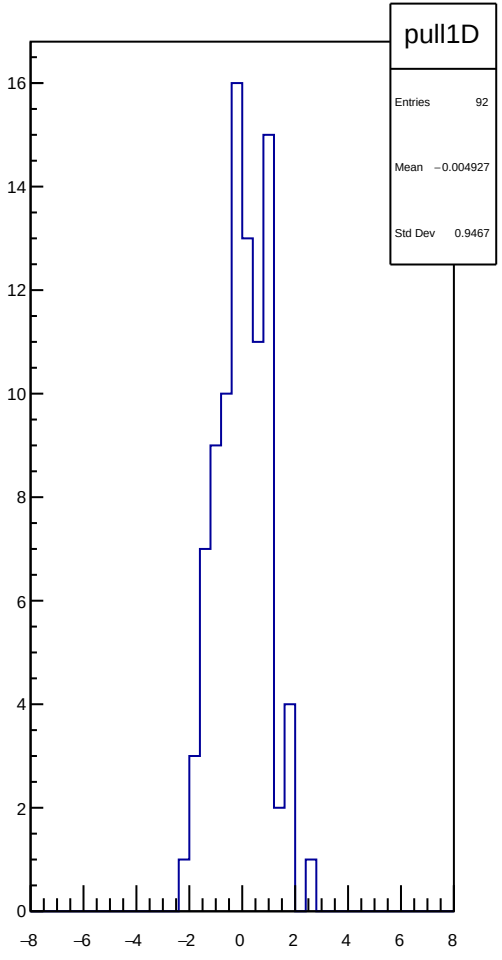

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 3.084e+04 / 91
p0 132.6 ± 0.1002
240
220
200
180
160
140
120
100

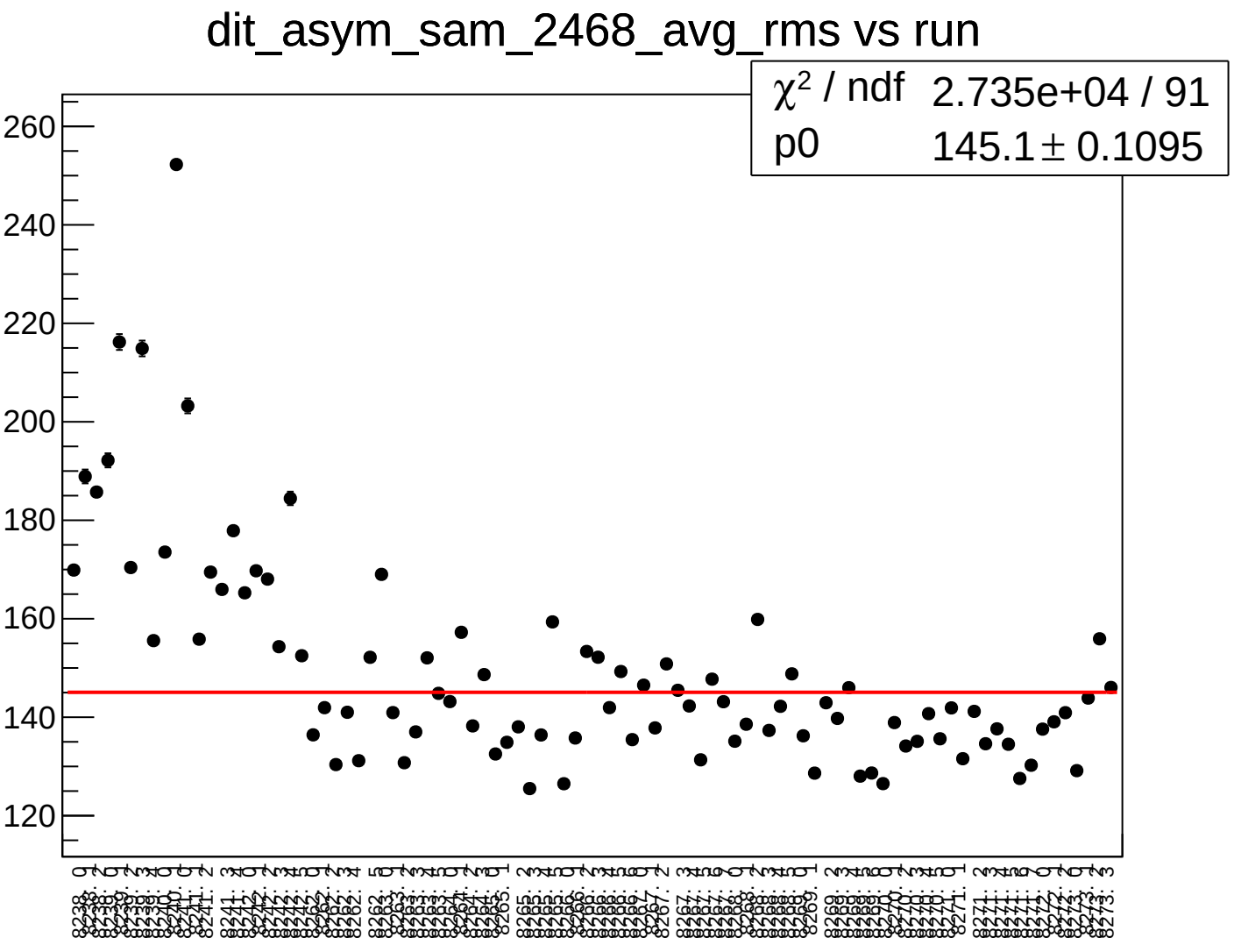

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.04 / 91
p0 −7197 ± 2208
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −2039
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

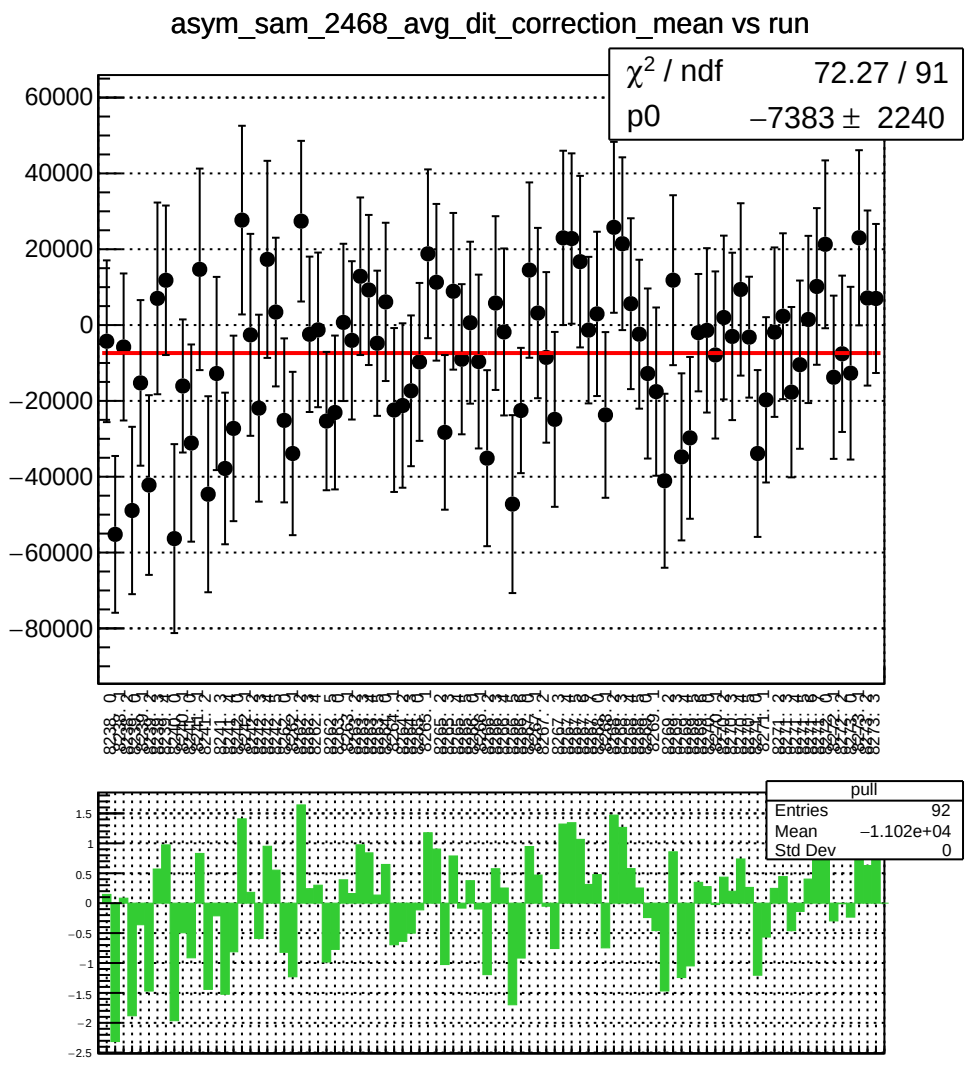

pull1D
Entries 92
Mean −0.002854
Std Dev 0.8849
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

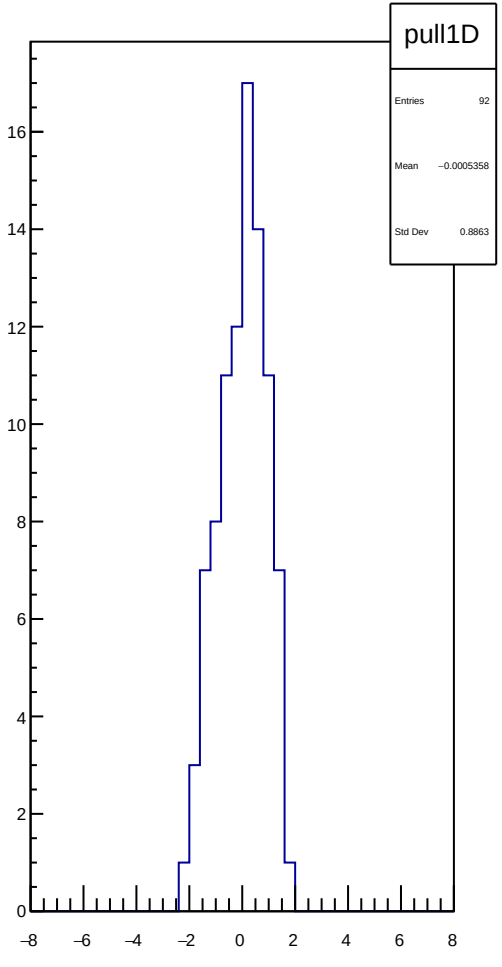

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 9432 / 91
p0 2079 ± 1.561
2600
2500
2400
2300
2200
2100
2000
1900
1800

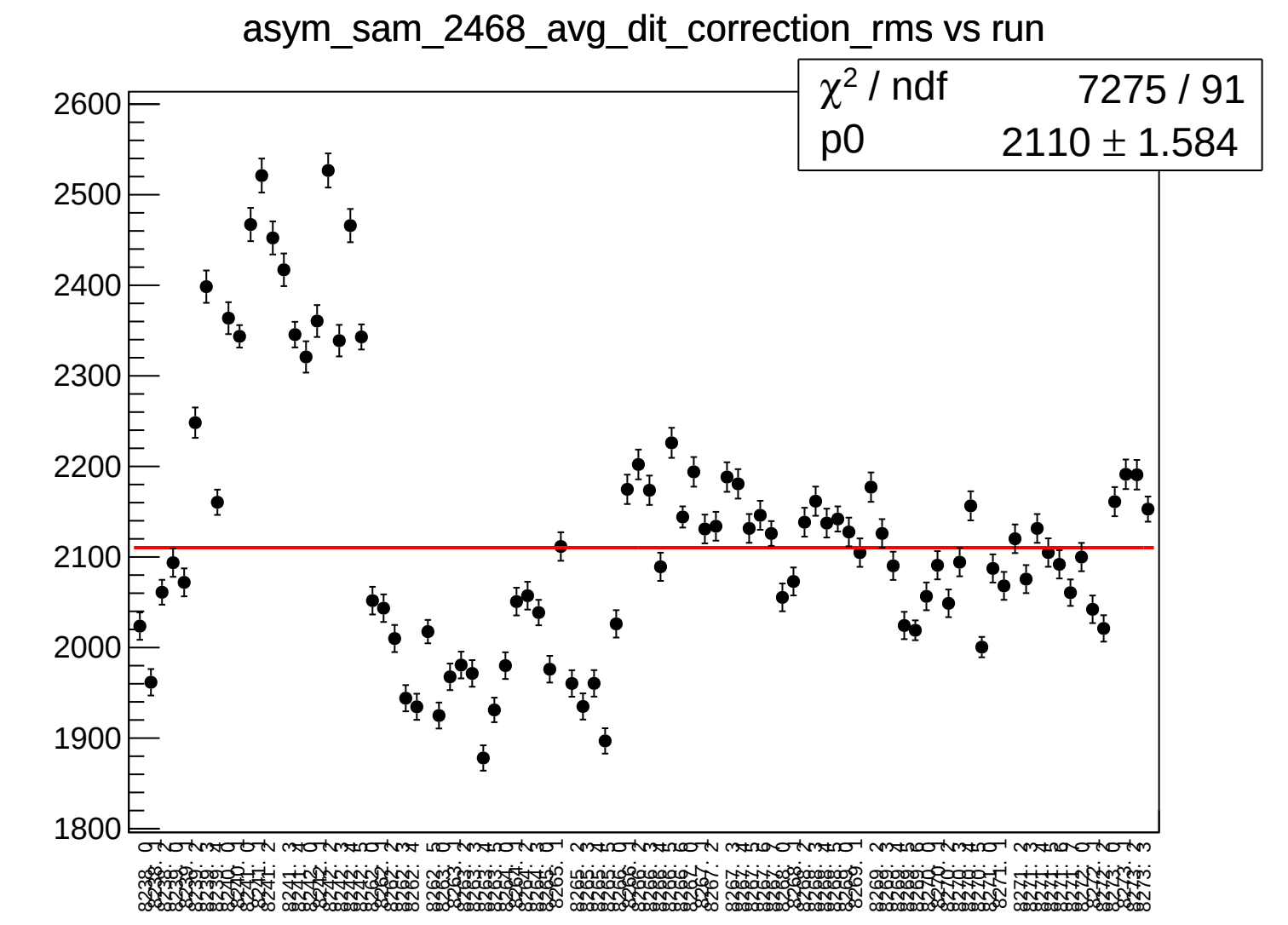

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 82.46 / 91
p0 −45.35 ± 154.8
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −241.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

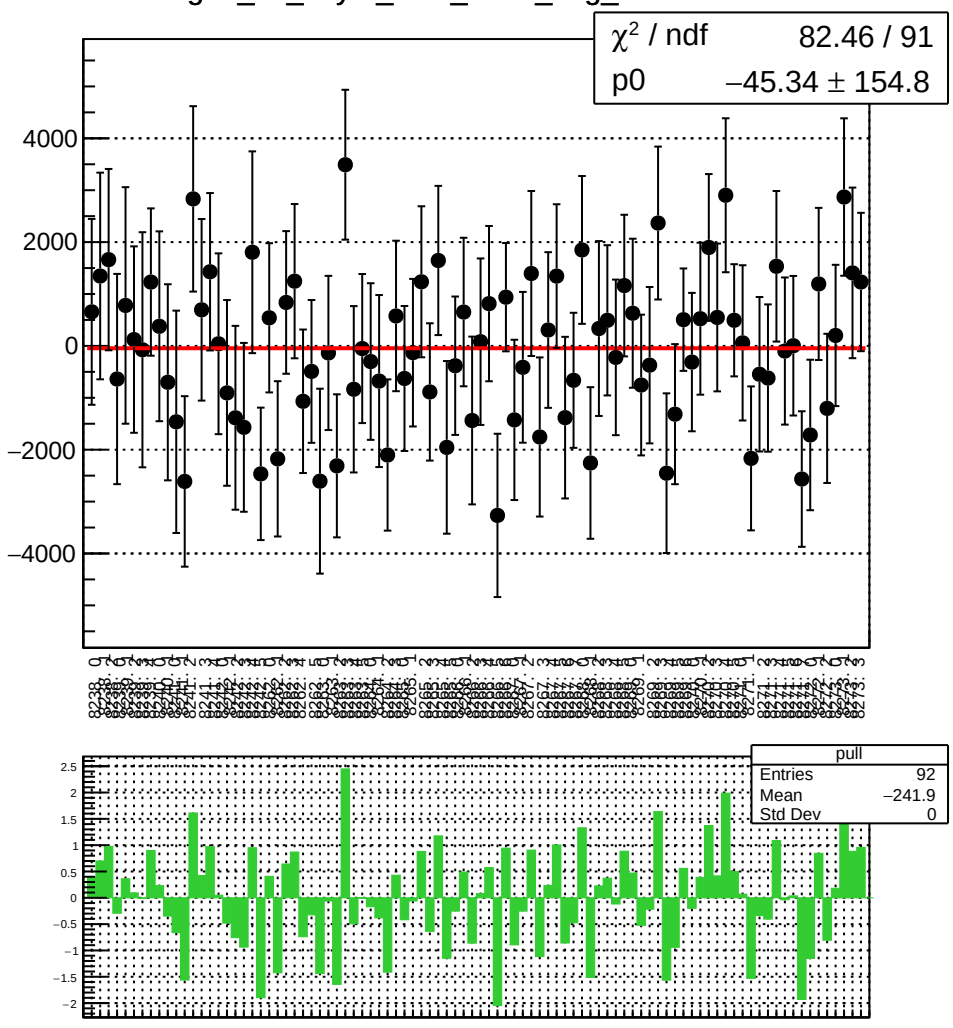

pull1D
Entries 92
Mean −0.004927
Std Dev 0.9467
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

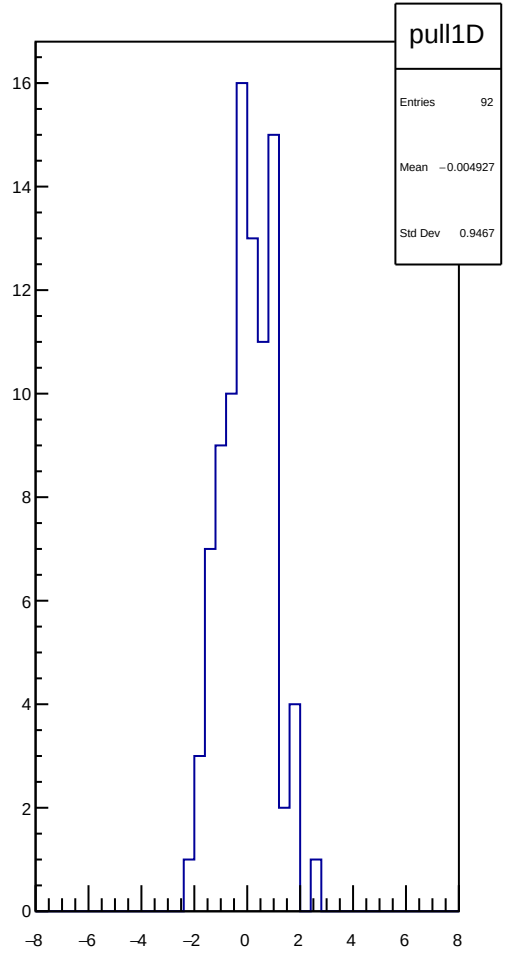

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 2.735e+04 / 91
p0 145.1 ± 0.1095
260
240
220
200
180
160
140
120

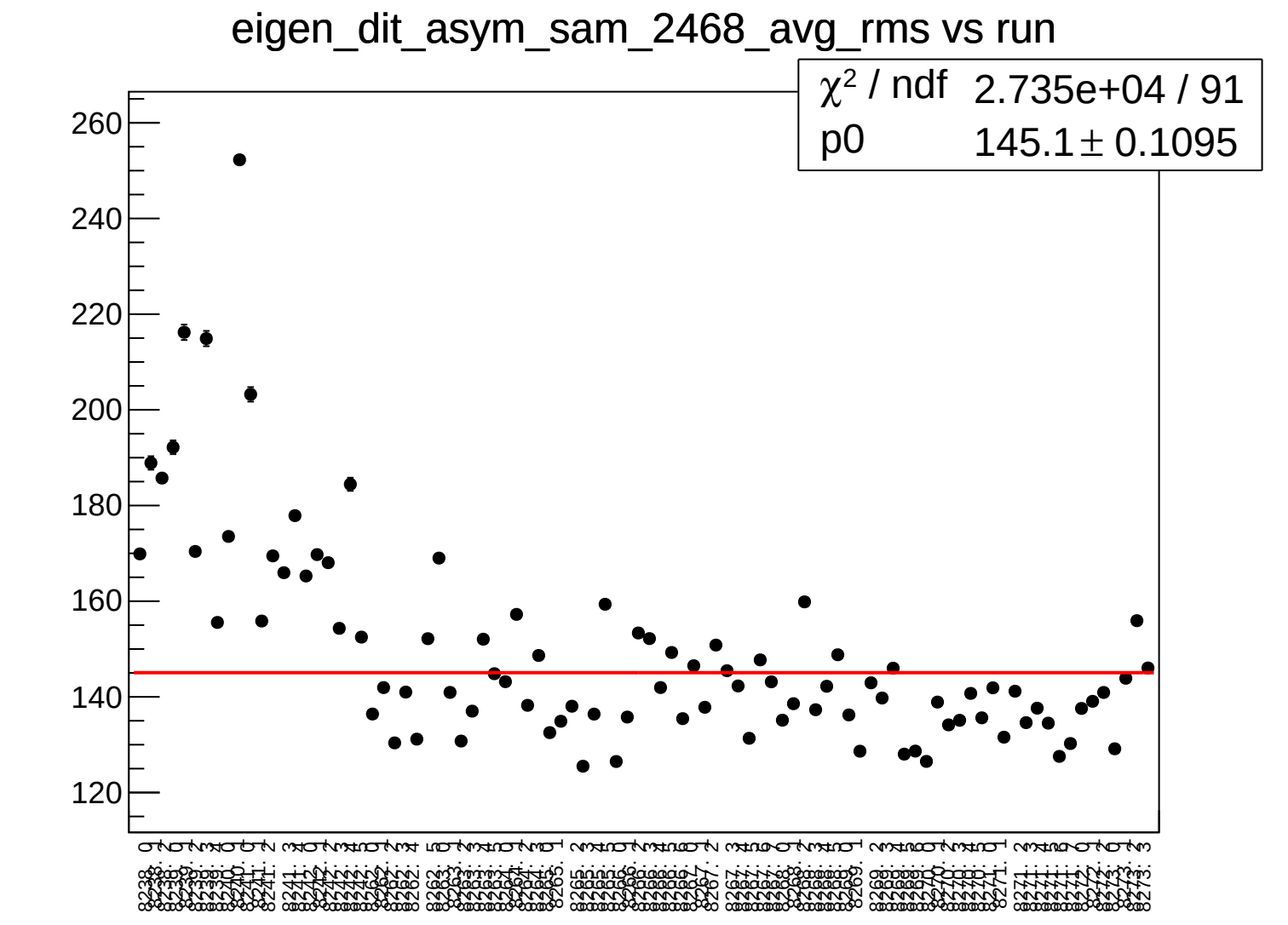

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 72.27 / 91
p0 −7383 ± 2240
pull
Entries 92
Mean −1.102e+04
Std Dev 0

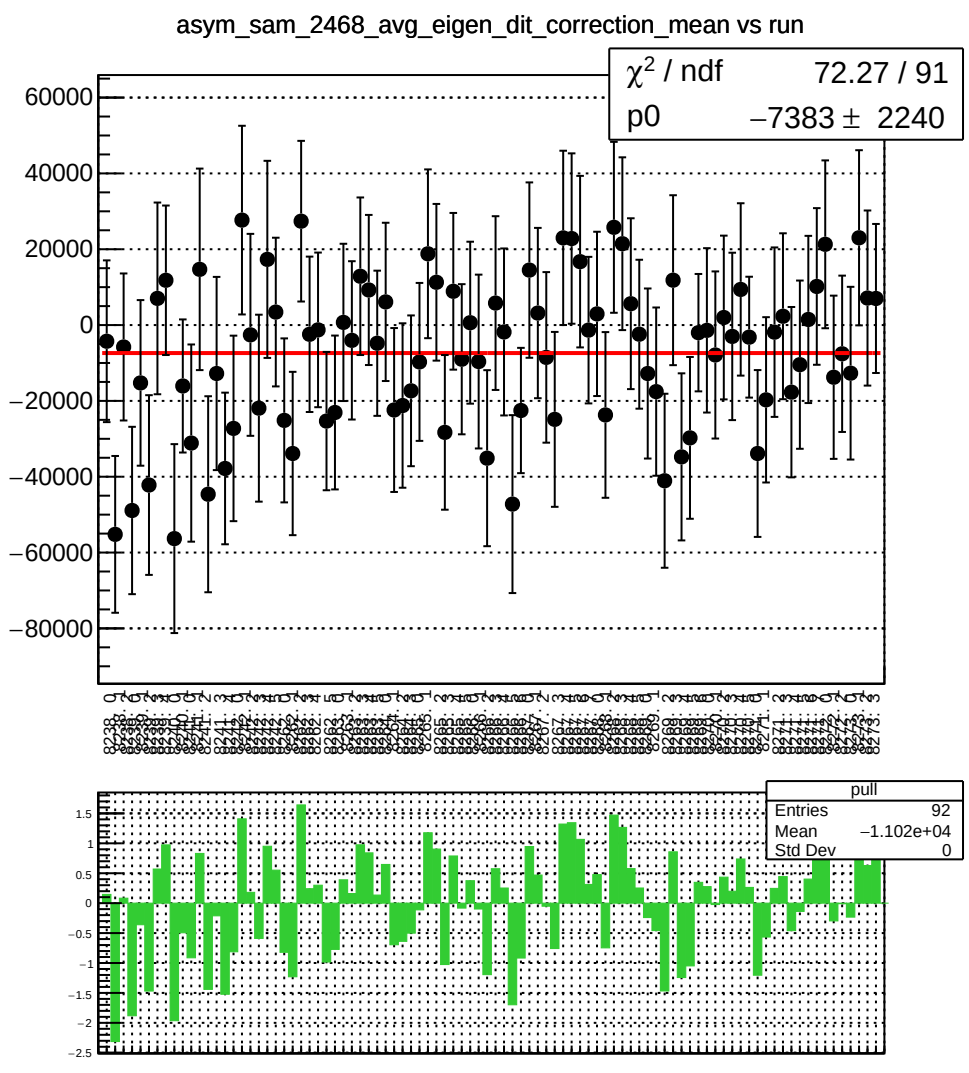

pull1D
Entries 92
Mean −0.0005358
Std Dev 0.8863

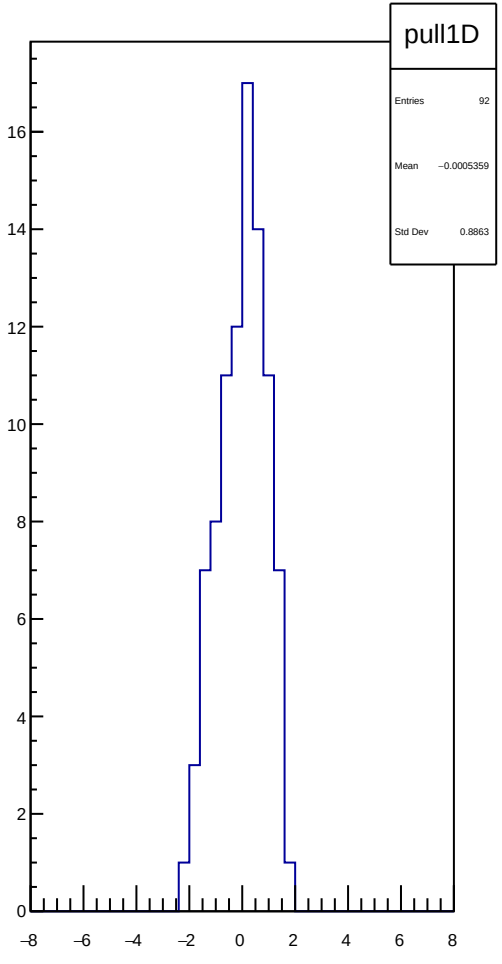

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 7275 / 91
p0 2110 ± 1.584
2600
2500
2400
2300
2200
2100
2000
1900
1800

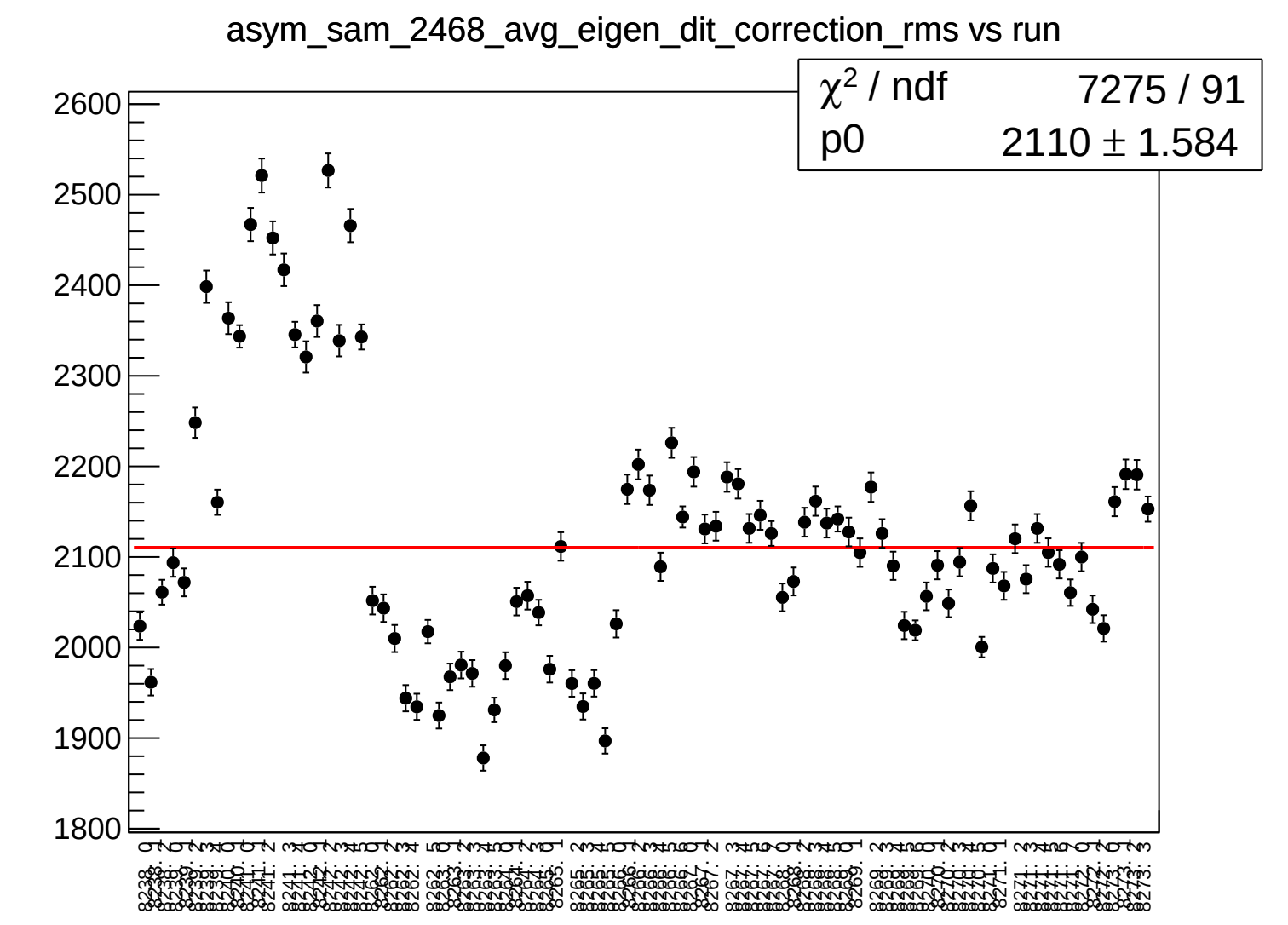

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 82.46 / 91
p0 −45.34 ± 154.8
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −241.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

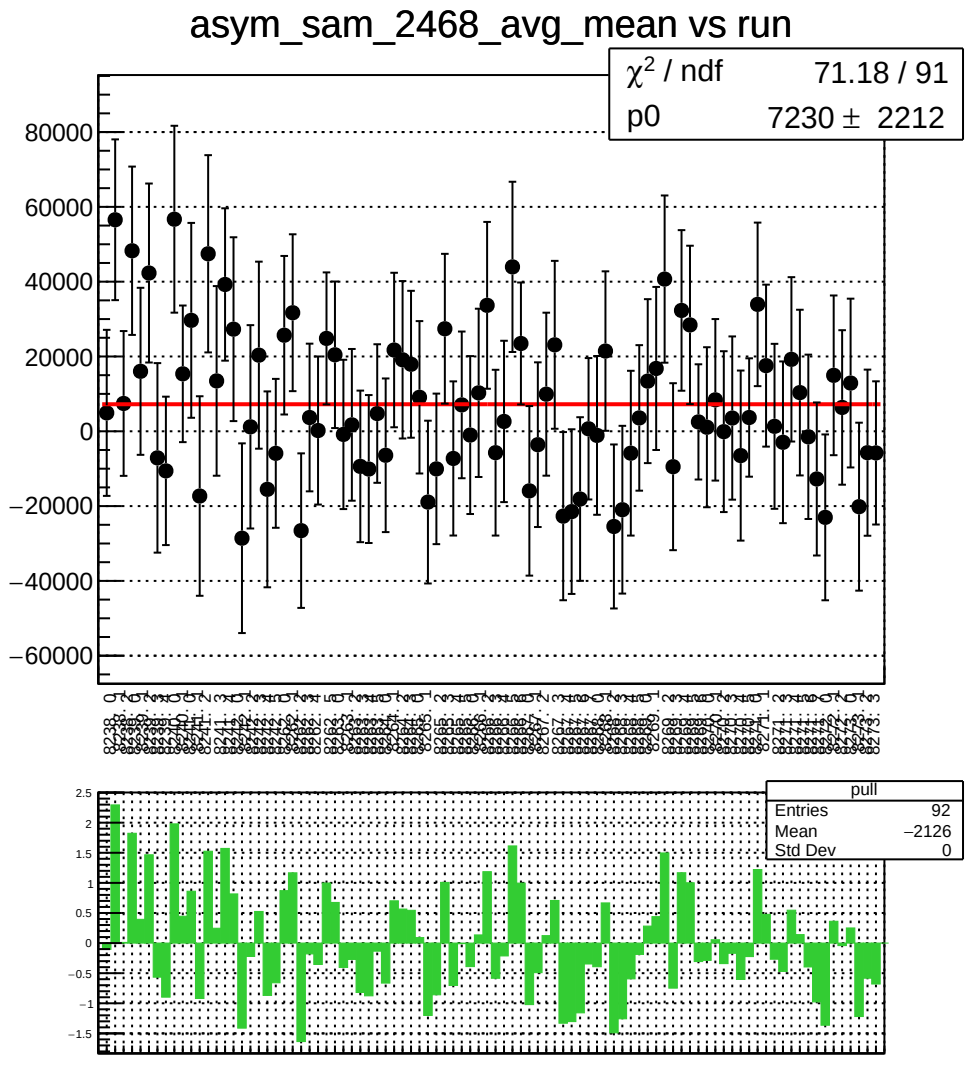

pull1D
Entries 92
Mean −0.004927
Std Dev 0.9467
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

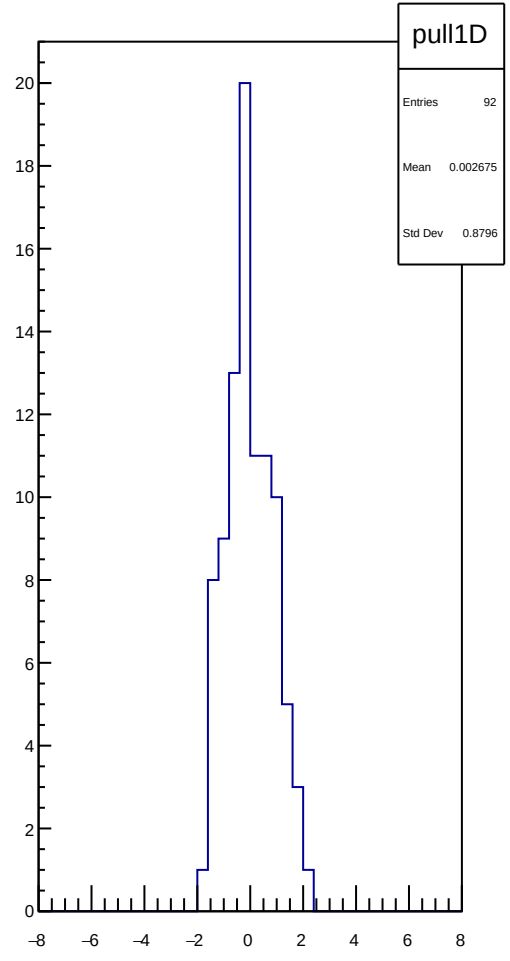

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 2.735e+04 / 91
p0 145.1 ± 0.1095
260
240
220
200
180
160
140
120

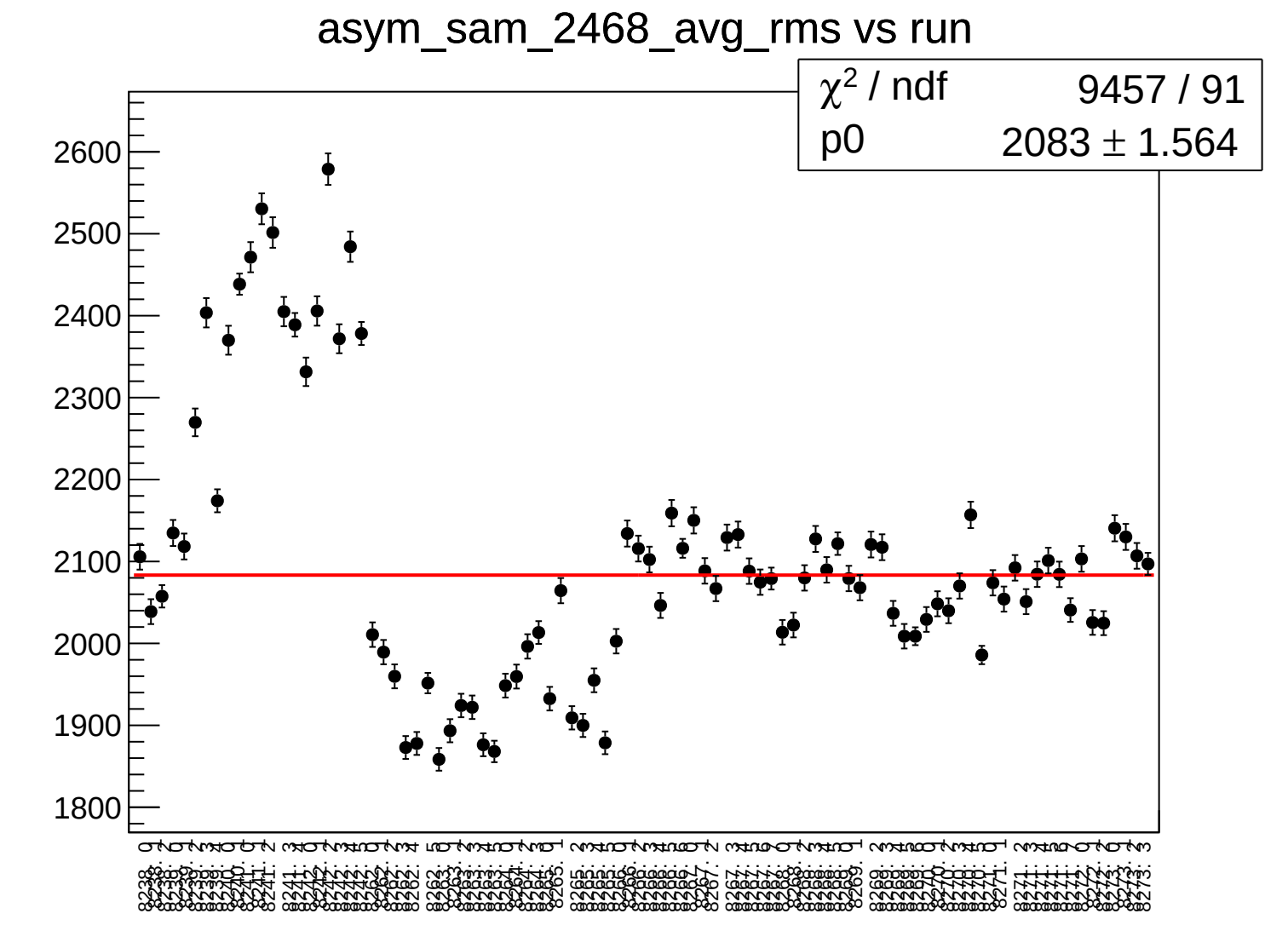

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.27 / 91
p0 −7383 ± 2240
pull
Entries 92
Mean −1.102e+04
Std Dev 0

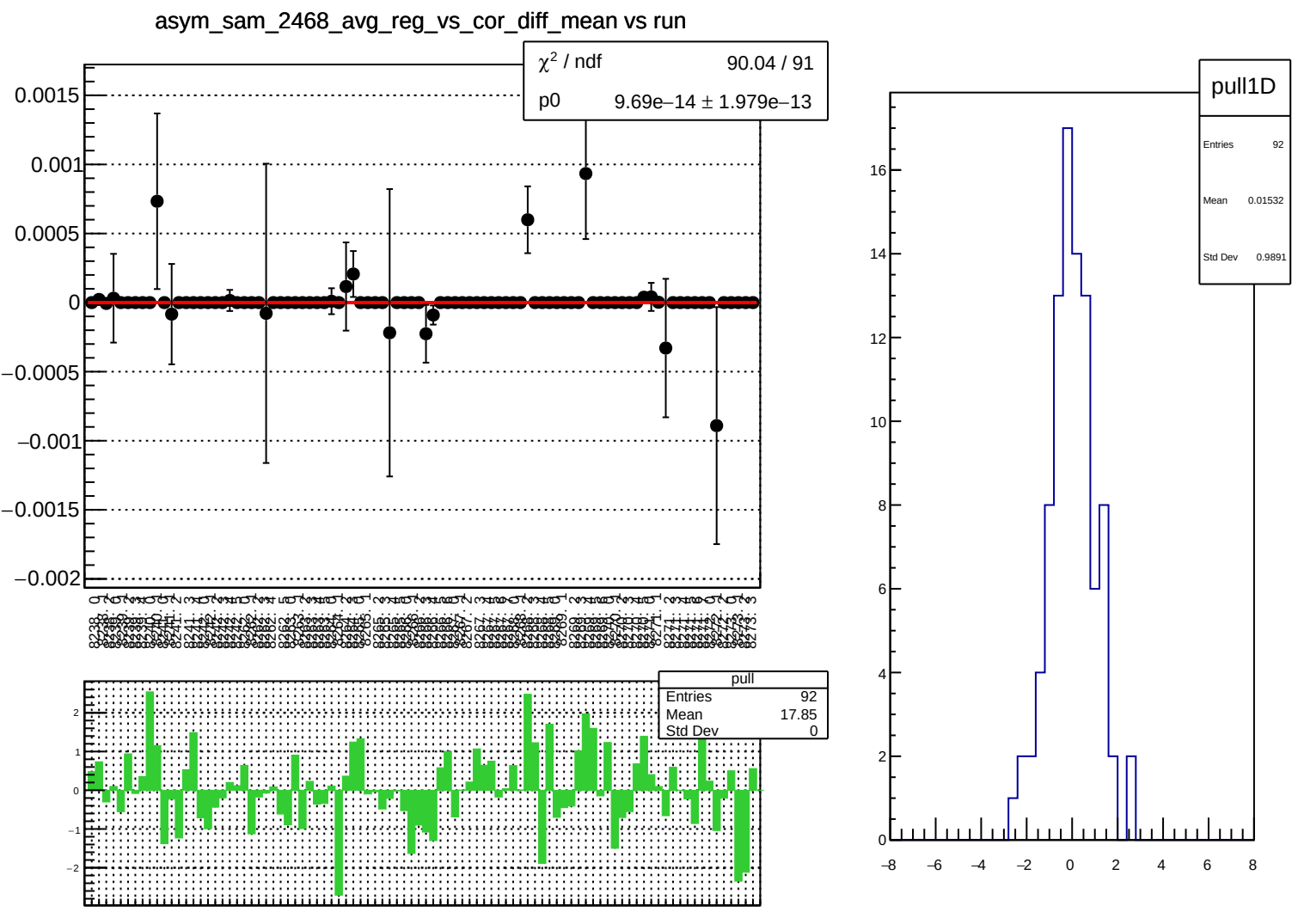

pull1D
Entries 92
Mean −0.0005359
Std Dev 0.8863

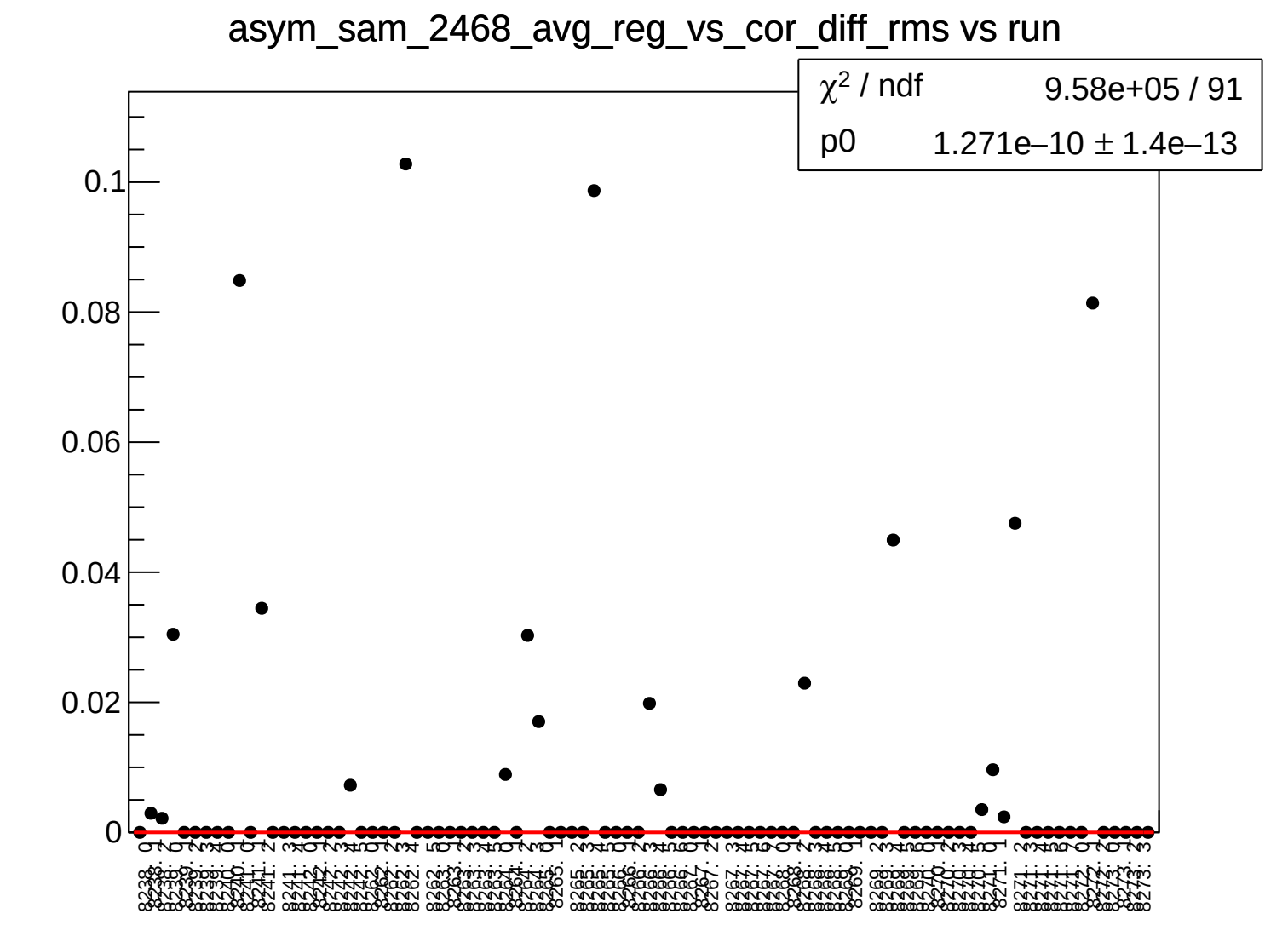

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 7275 / 91
p0 2110 ± 1.584
2600
2500
2400
2300
2200
2100
2000
1900
1800

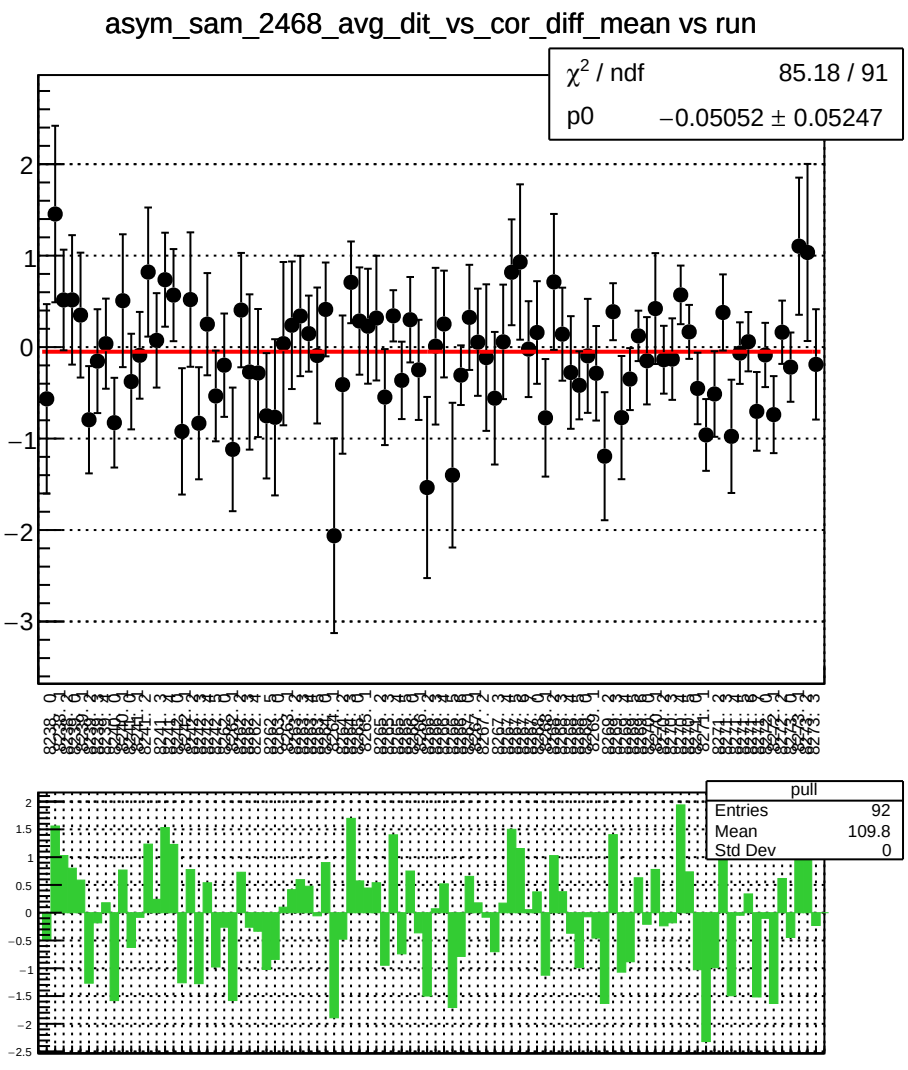

asym_sam_2468_avg_mean vs run
χ² / ndf 71.18 / 91
p0 7230 ± 2212
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −2126
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

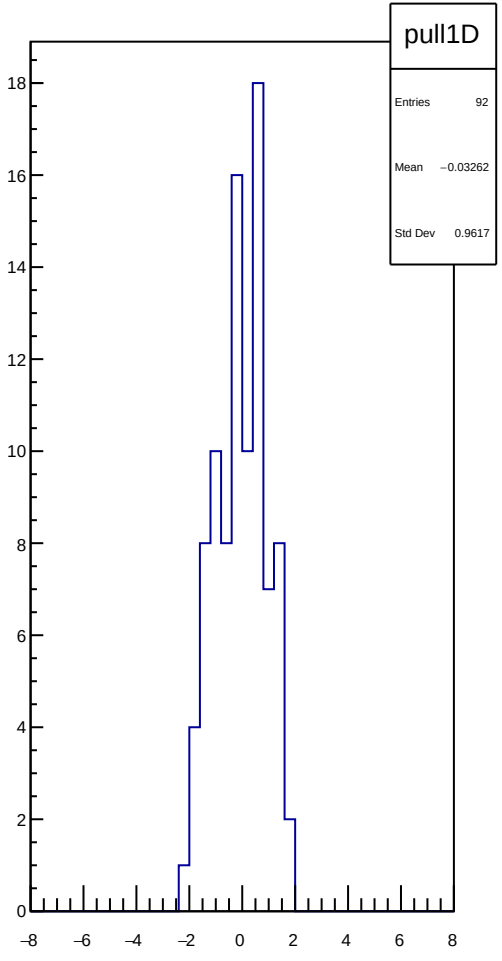

pull1D
Entries 92
Mean 0.002675
Std Dev 0.8796
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

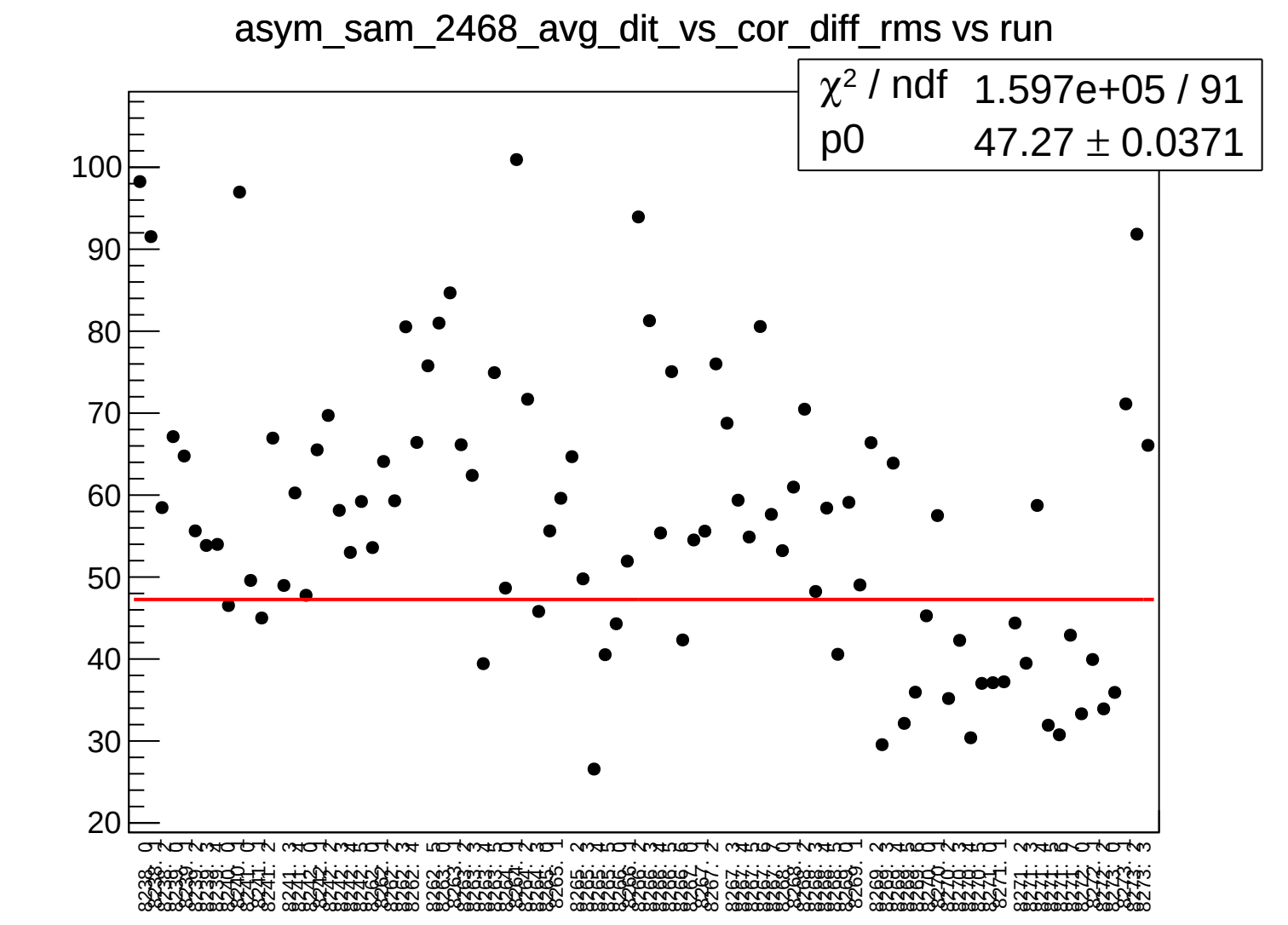

asym_sam_2468_avg_rms vs run
$\chi^2$ / ndf 9457 / 91
p0 2083 ± 1.564
2600
2500
2400
2300
2200
2100
2000
1900
1800

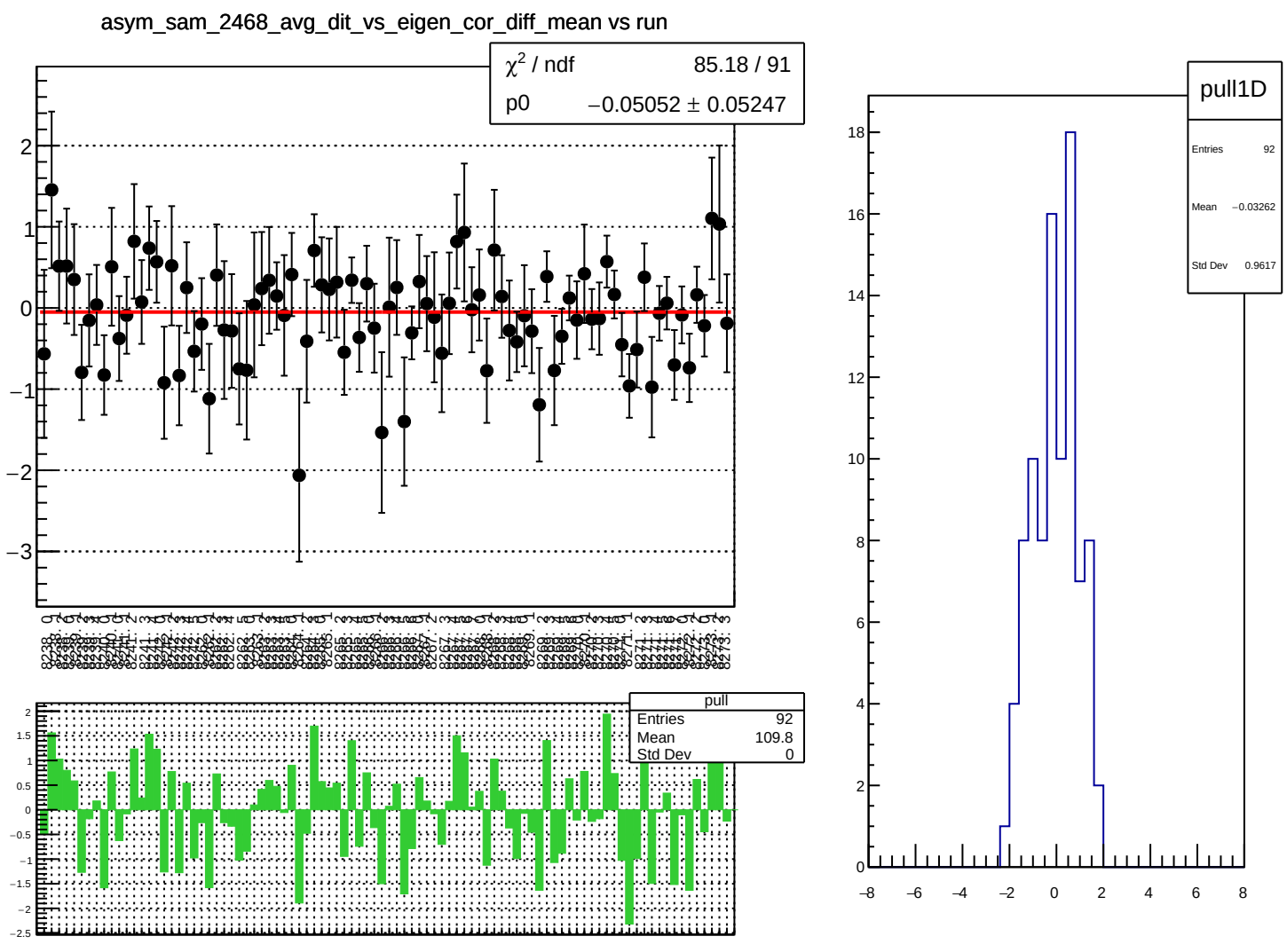

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.04 / 91
p0 9.69e−14 ± 1.979e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 92
Mean 17.85
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.01532
Std Dev 0.9891
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

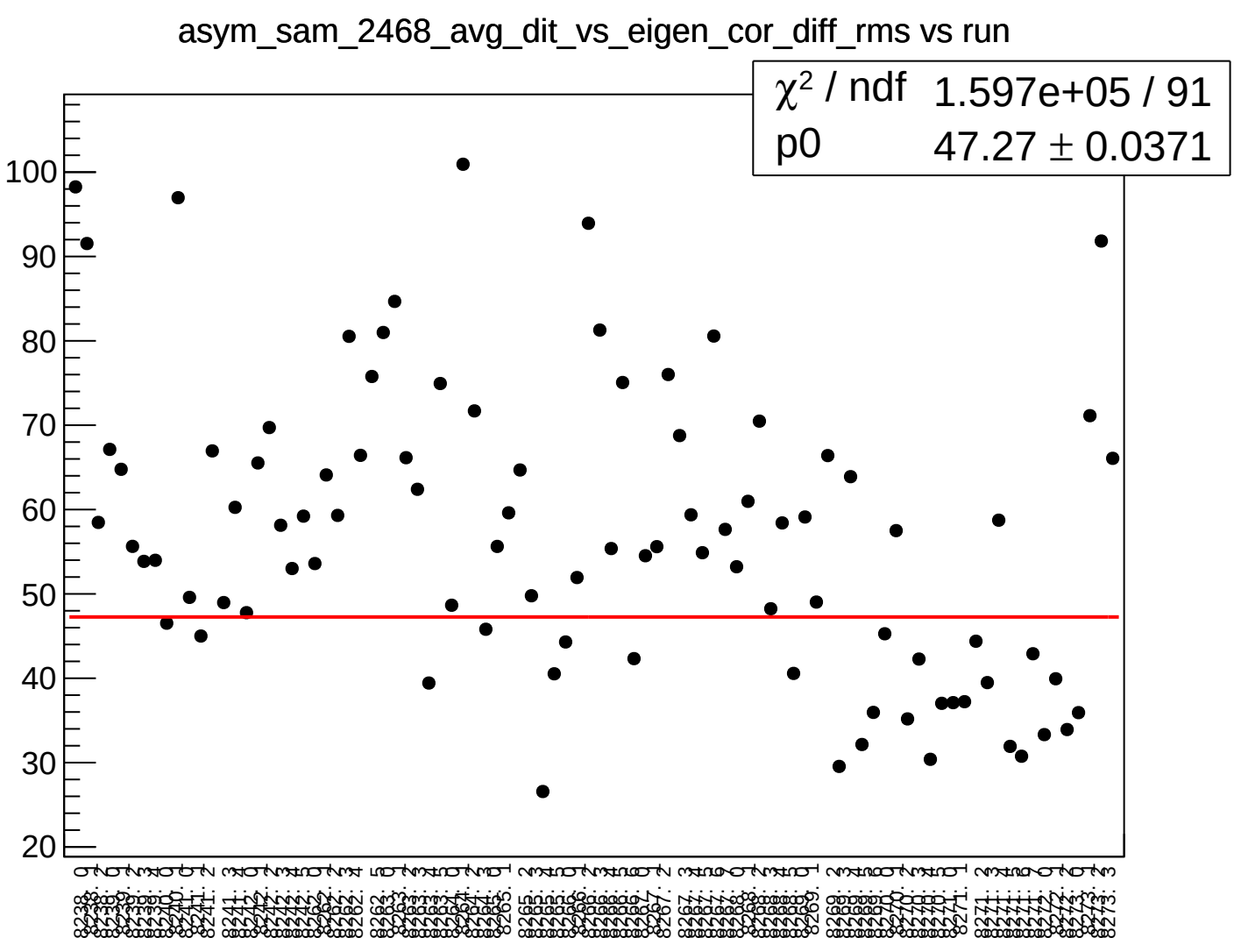

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.58e+05 / 91
p0 1.271e−10 ± 1.4e−13
0.1
0.08
0.06
0.04
0.02
0

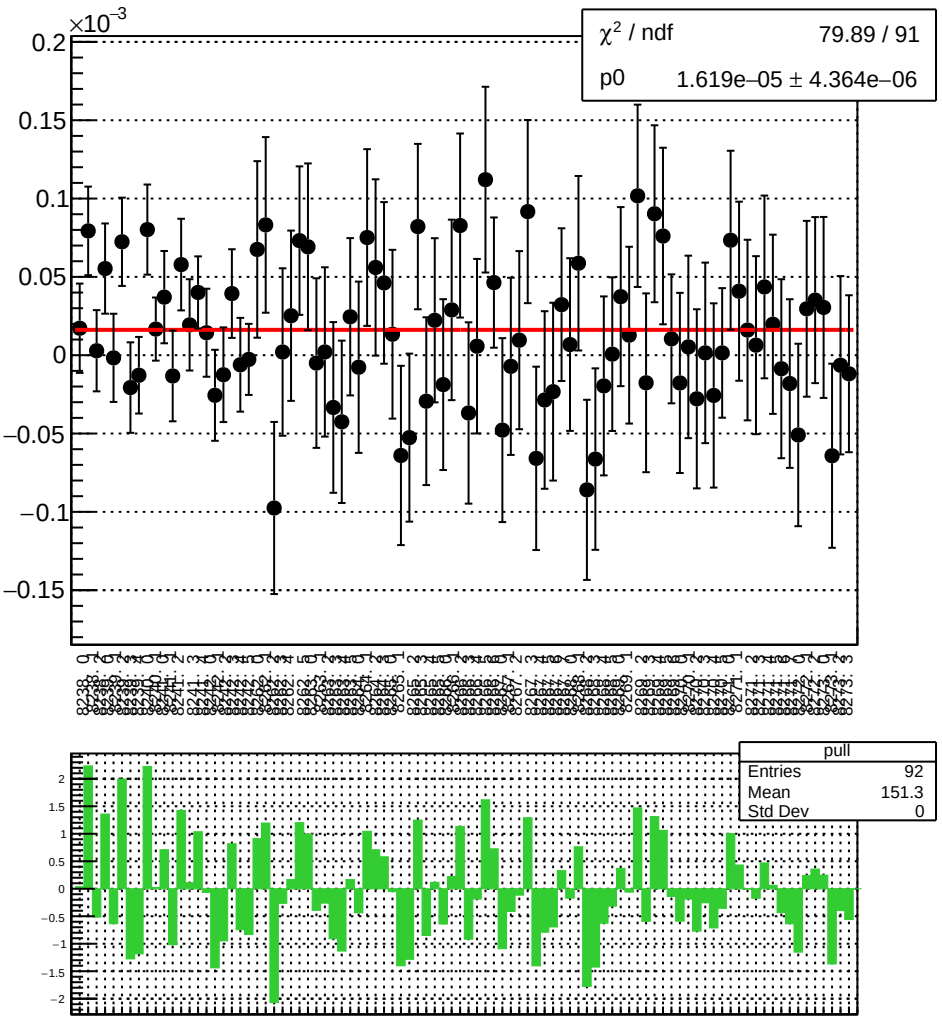

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.18 / 91
p0 −0.05052 ± 0.05247
pull
Entries 92
Mean 109.8
Std Dev 0

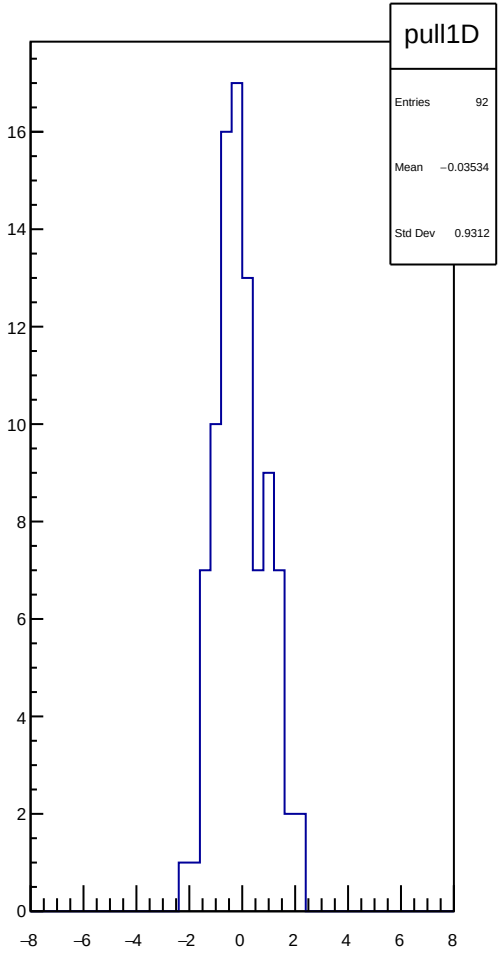

pull1D
Entries 92
Mean −0.03262
Std Dev 0.9617

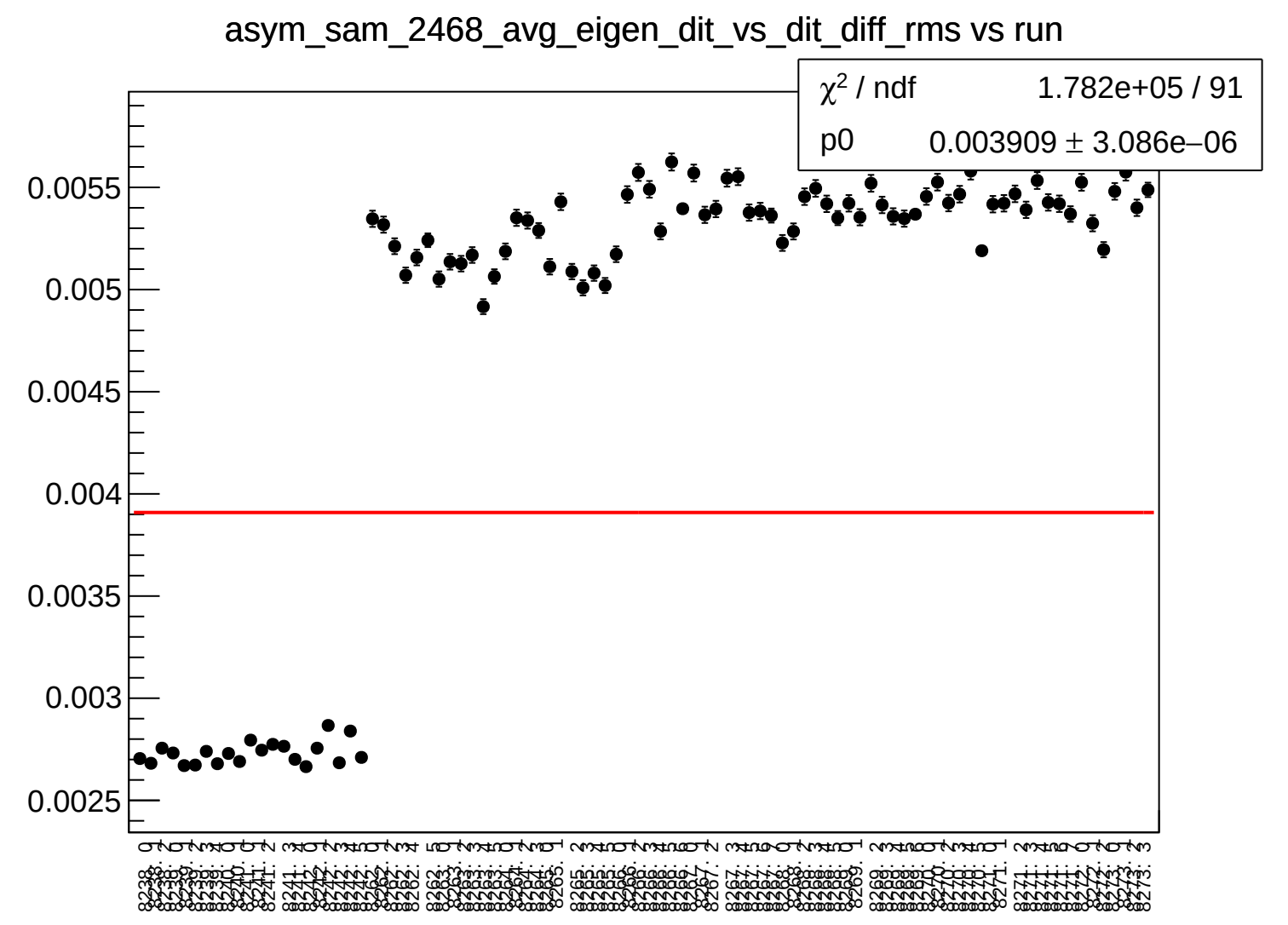

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.597e+05 / 91
p0 47.27 ± 0.0371
100
90
80
70
60
50
40
30
20

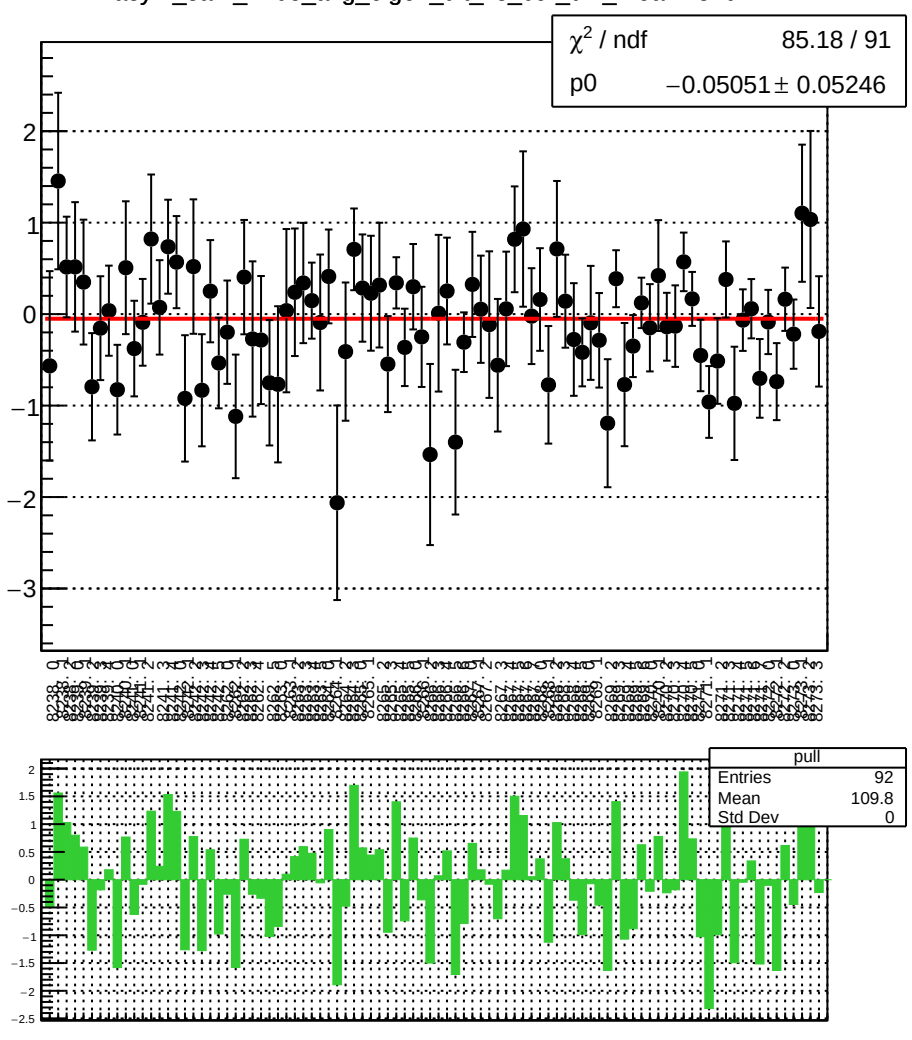

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.18 / 91
p0 −0.05052 ± 0.05247
pull
Entries 92
Mean 109.8
Std Dev 0
pull1D
Entries 92
Mean −0.03262
Std Dev 0.9617

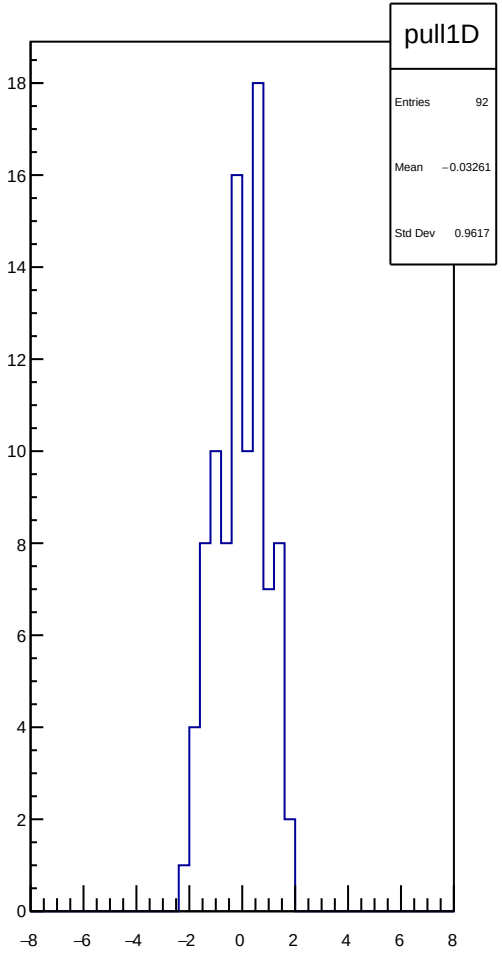

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.597e+05 / 91
p0 47.27 ± 0.0371
100
90
80
70
60
50
40
30
20

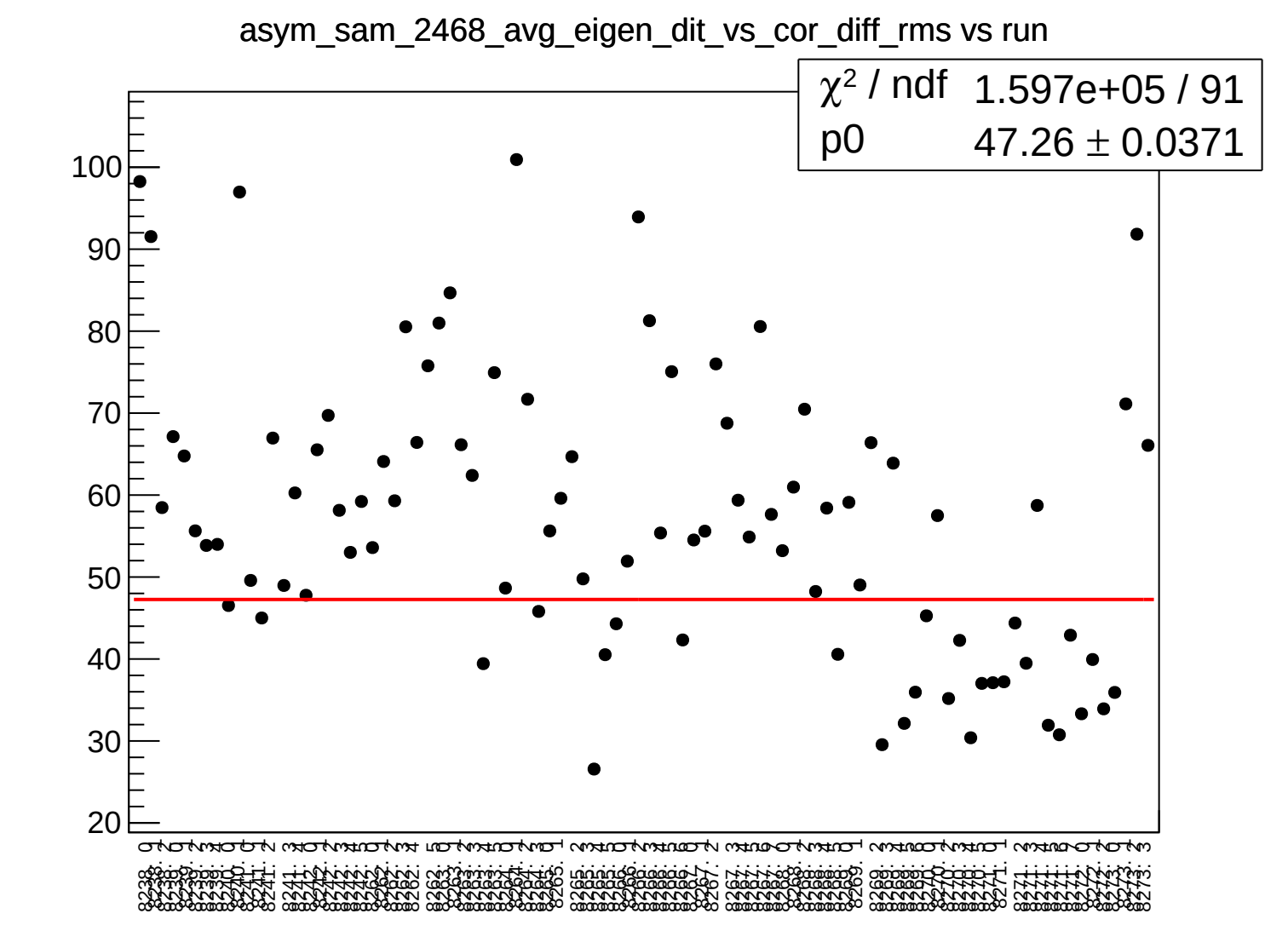

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.89 / 91
p0 1.619e−05 ± 4.364e−06
pull
Entries 92
Mean 151.3
Std Dev 0

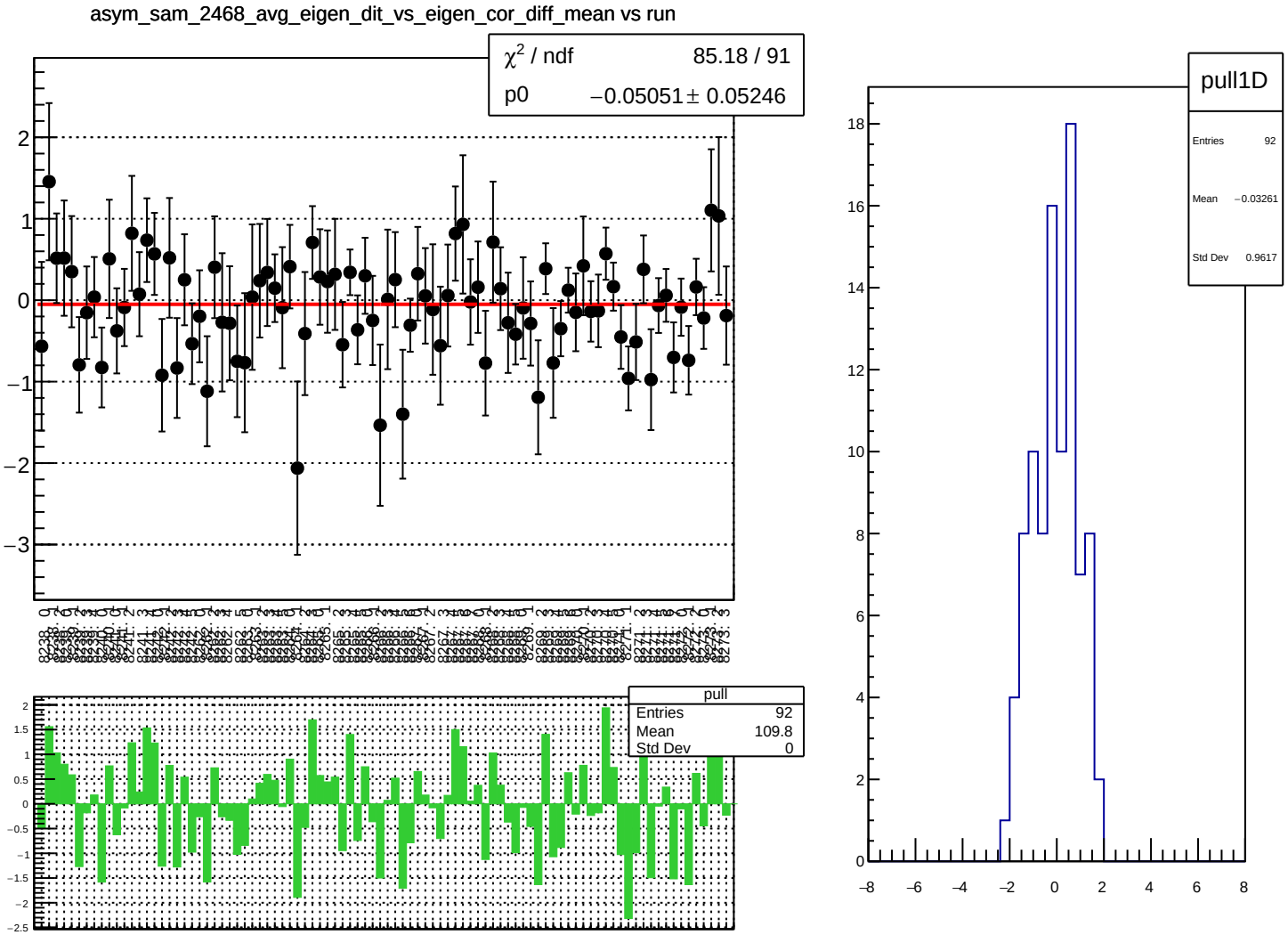

pull1D
Entries 92
Mean −0.03534
Std Dev 0.9312

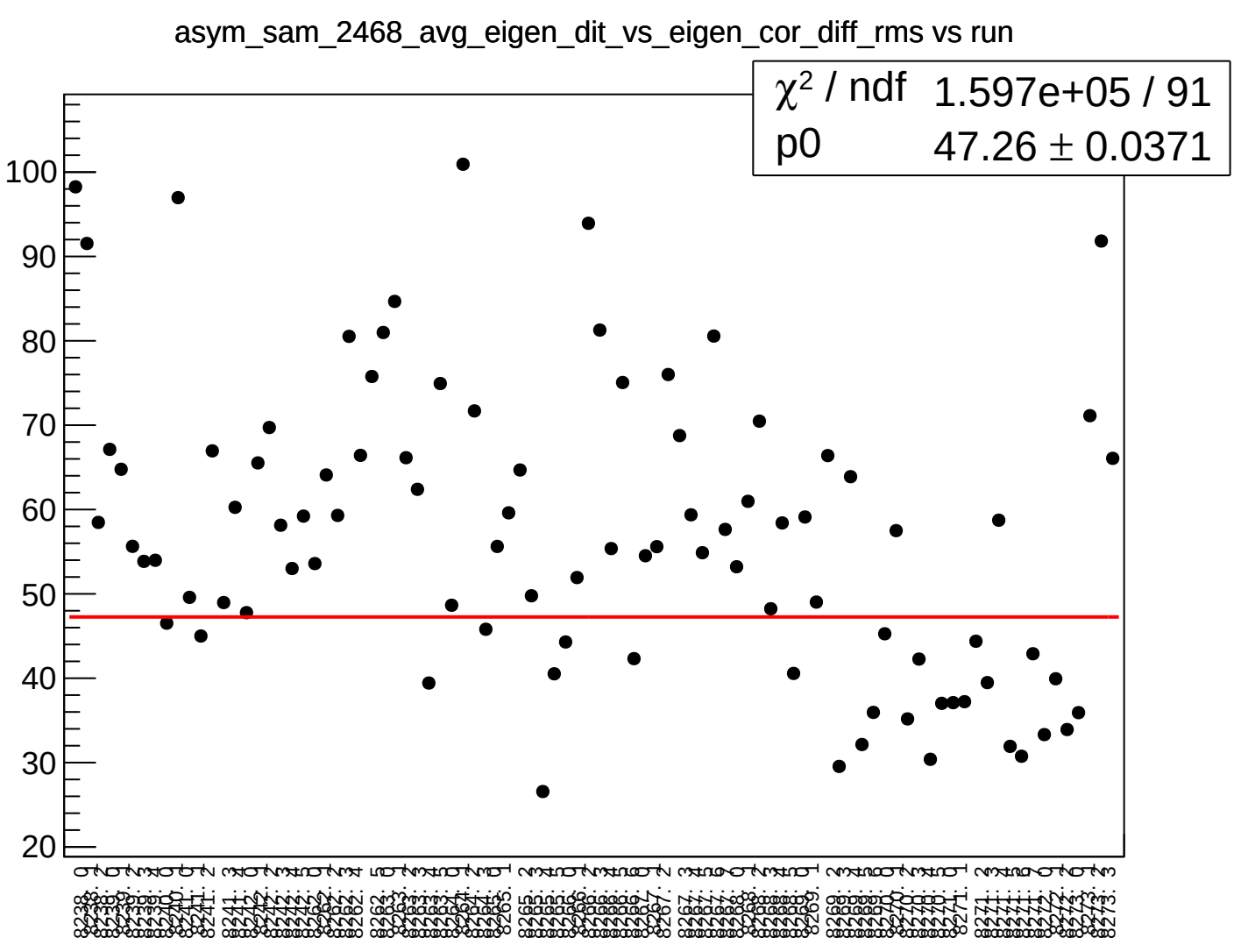

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.782e+05 / 91
p0 0.003909 ± 3.086e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

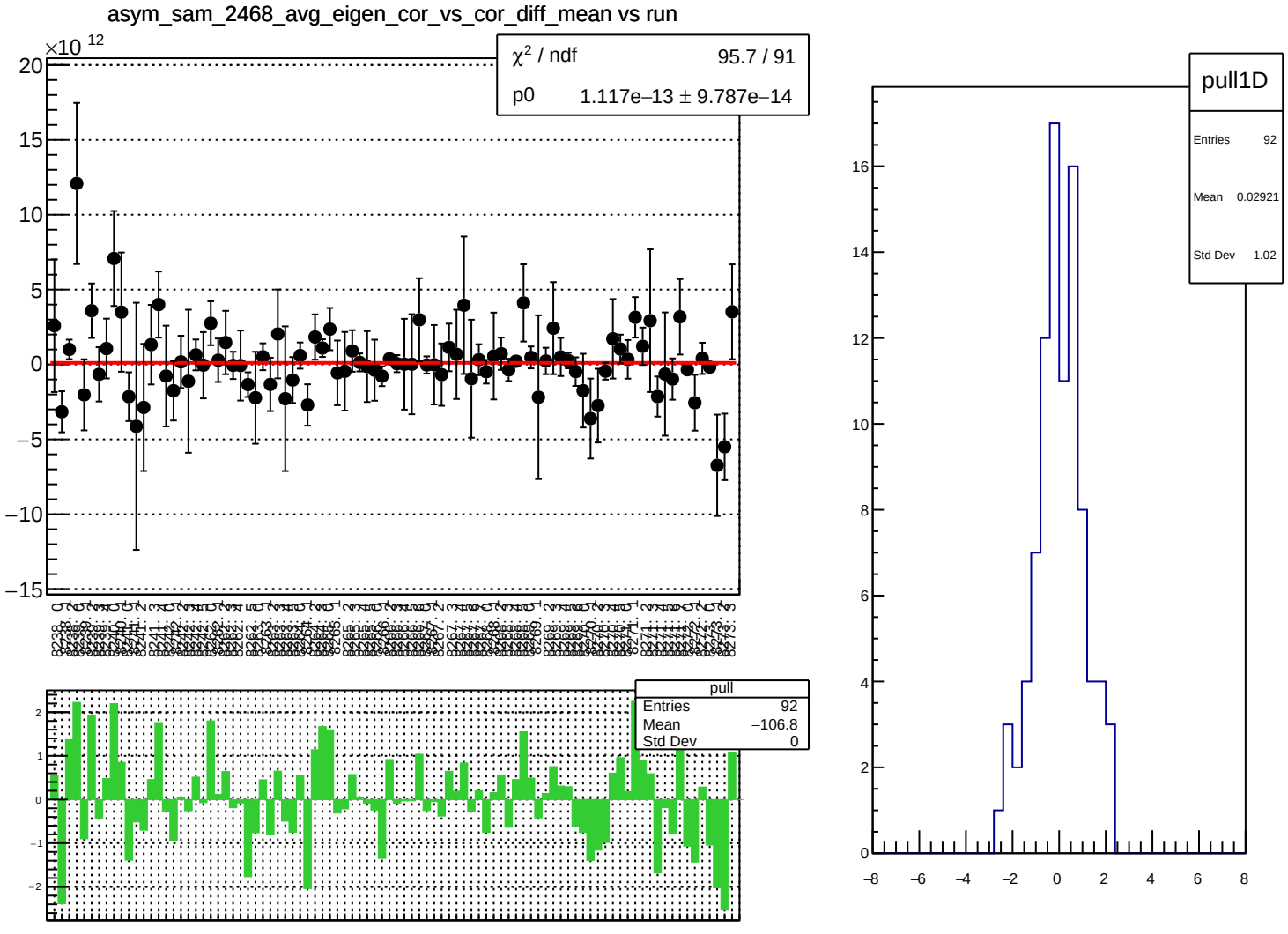

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.18 / 91
p0 −0.05051 ± 0.05246
pull
Entries 92
Mean 109.8
Std Dev 0

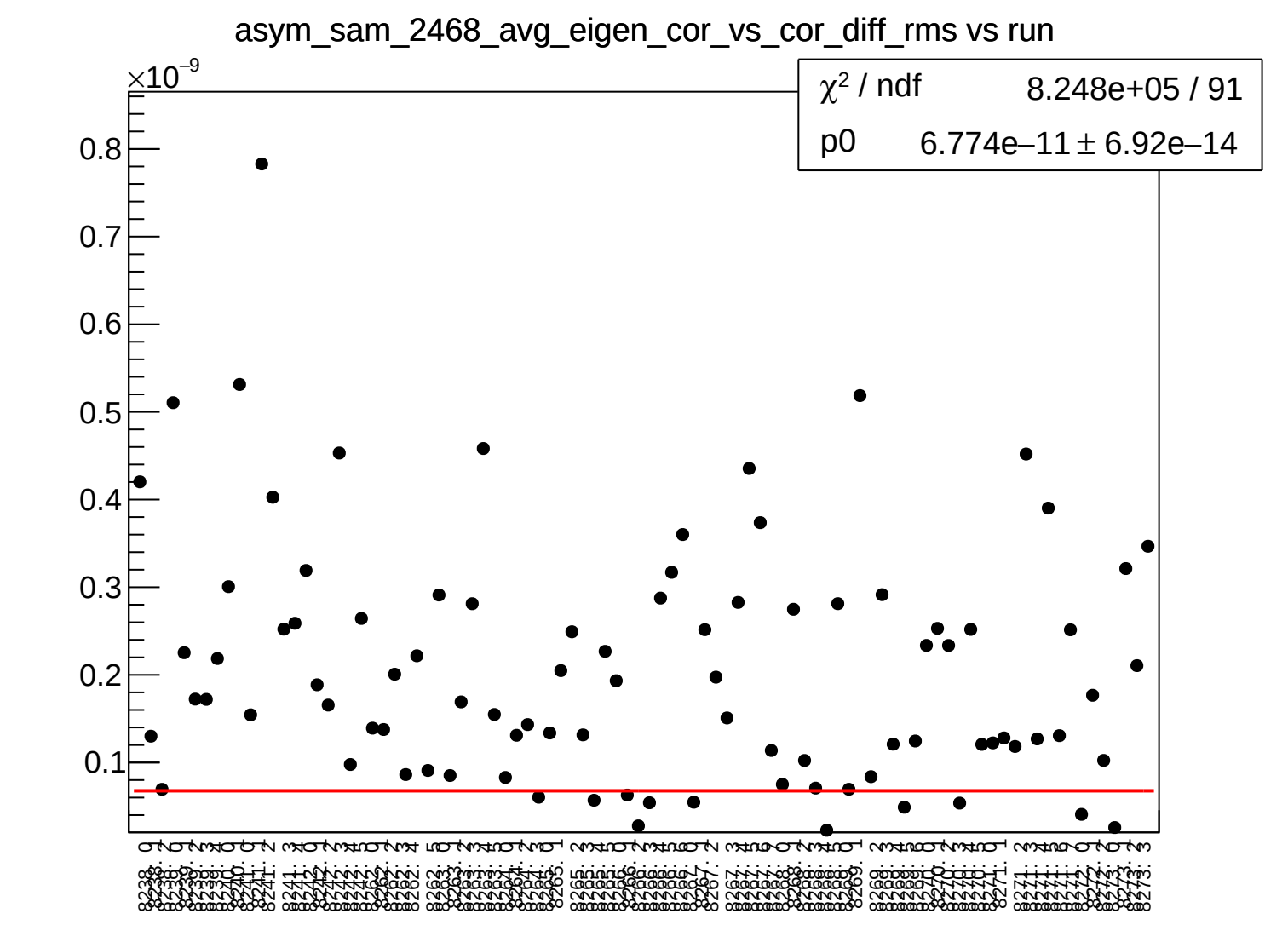

pull1D
Entries 92
Mean −0.03261
Std Dev 0.9617

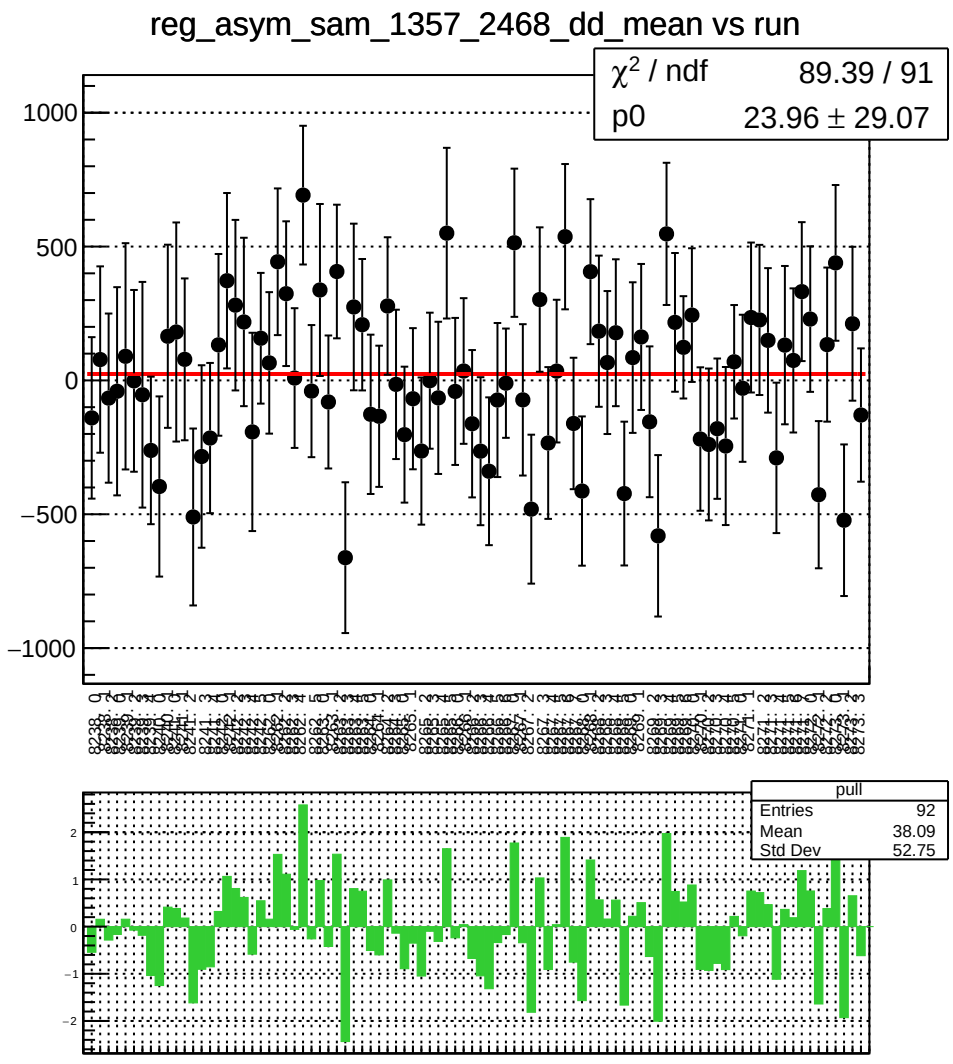

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.597e+05 / 91
p0 47.26 ± 0.0371
100
90
80
70
60
50
40
30
20

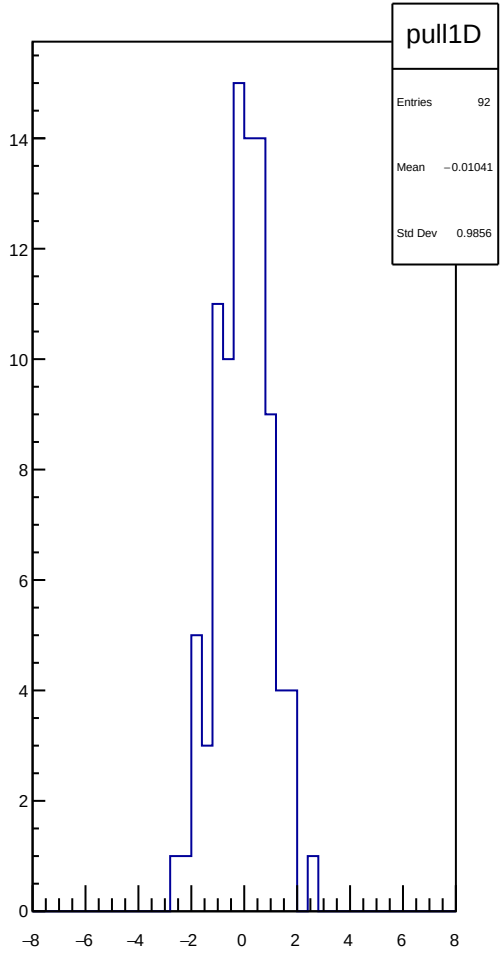

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.18 / 91
p0 −0.05051 ± 0.05246
pull
Entries 92
Mean 109.8
Std Dev 0
pull1D
Entries 92
Mean −0.03261
Std Dev 0.9617

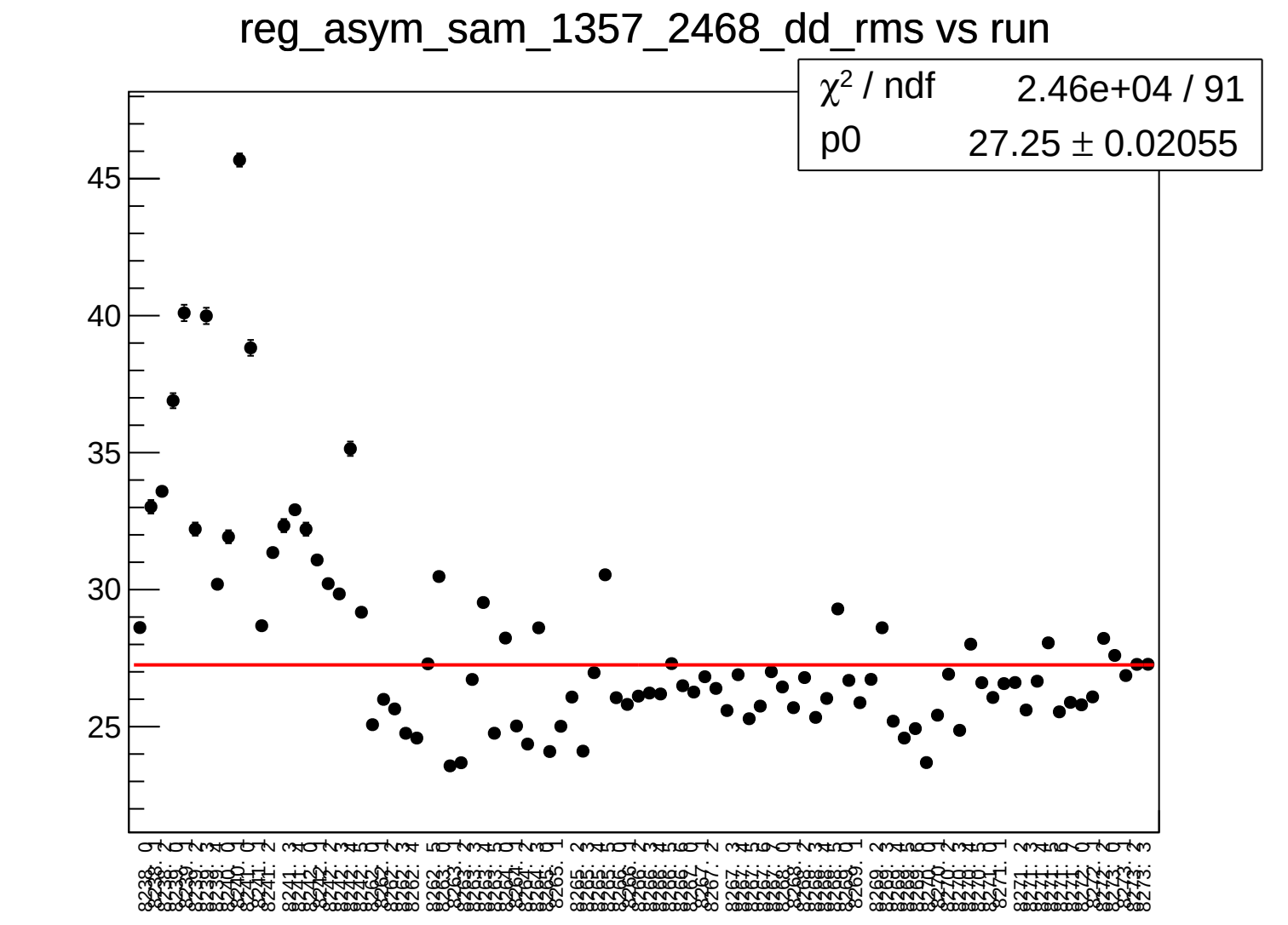

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.597e+05 / 91
p0 47.26 ± 0.0371
100
90
80
70
60
50
40
30
20

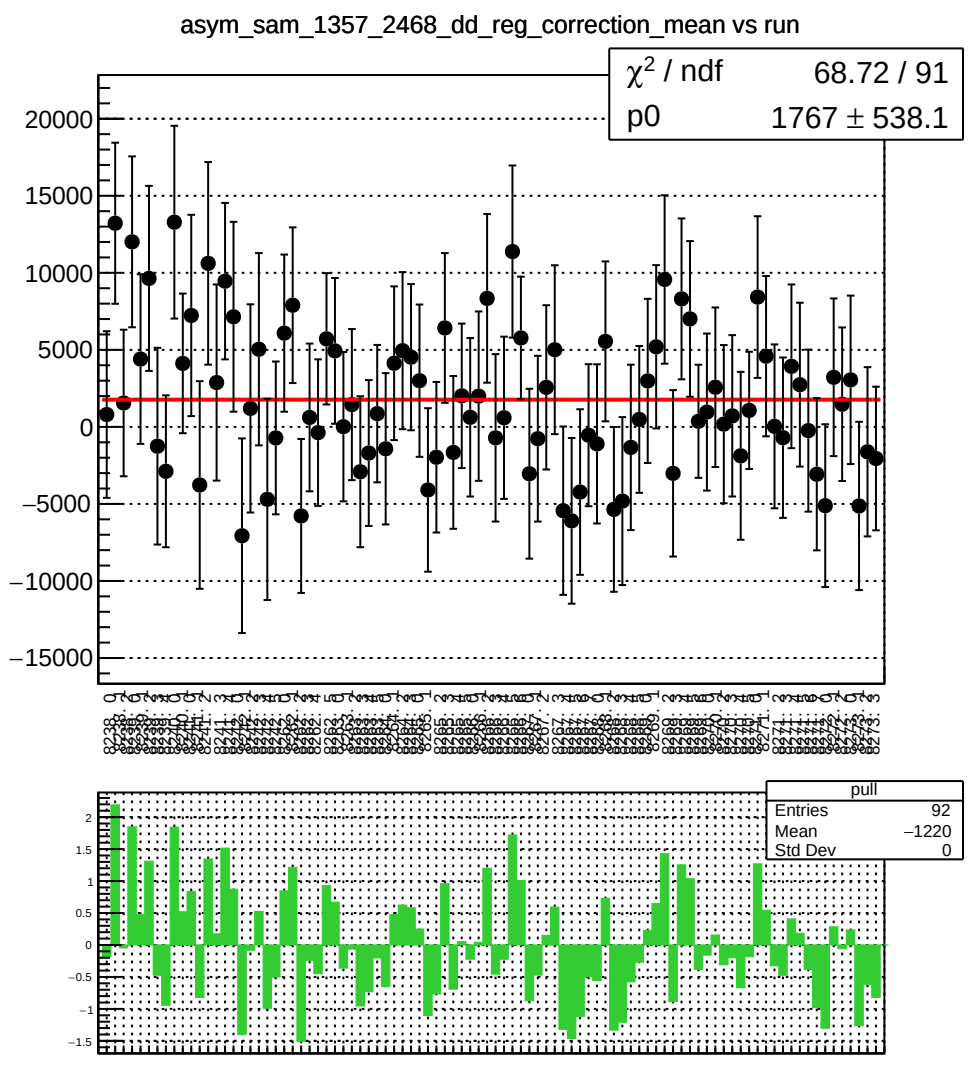

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.7 / 91
p0 1.117e−13 ± 9.787e−14
pull
Entries 92
Mean −106.8
Std Dev 0
pull1D
Entries 92
Mean 0.02921
Std Dev 1.02

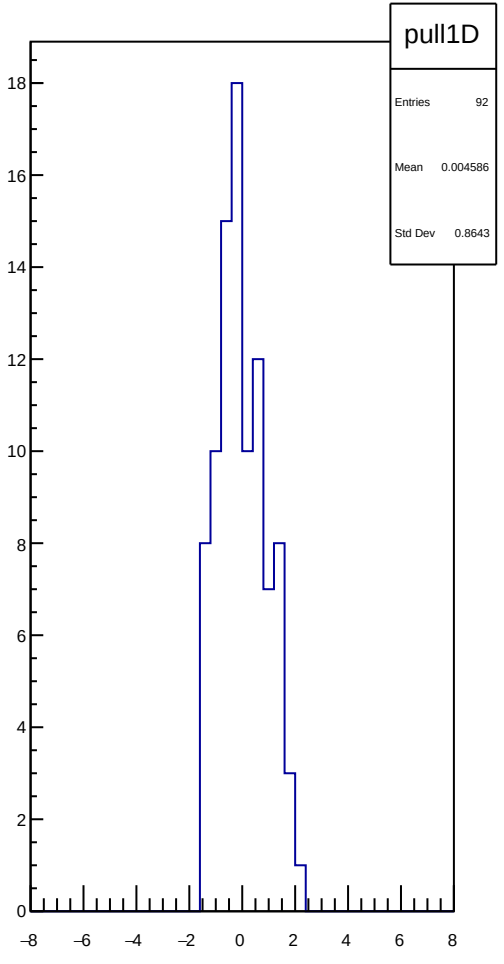

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.248e+05 / 91
p0 6.774e−11 ± 6.92e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

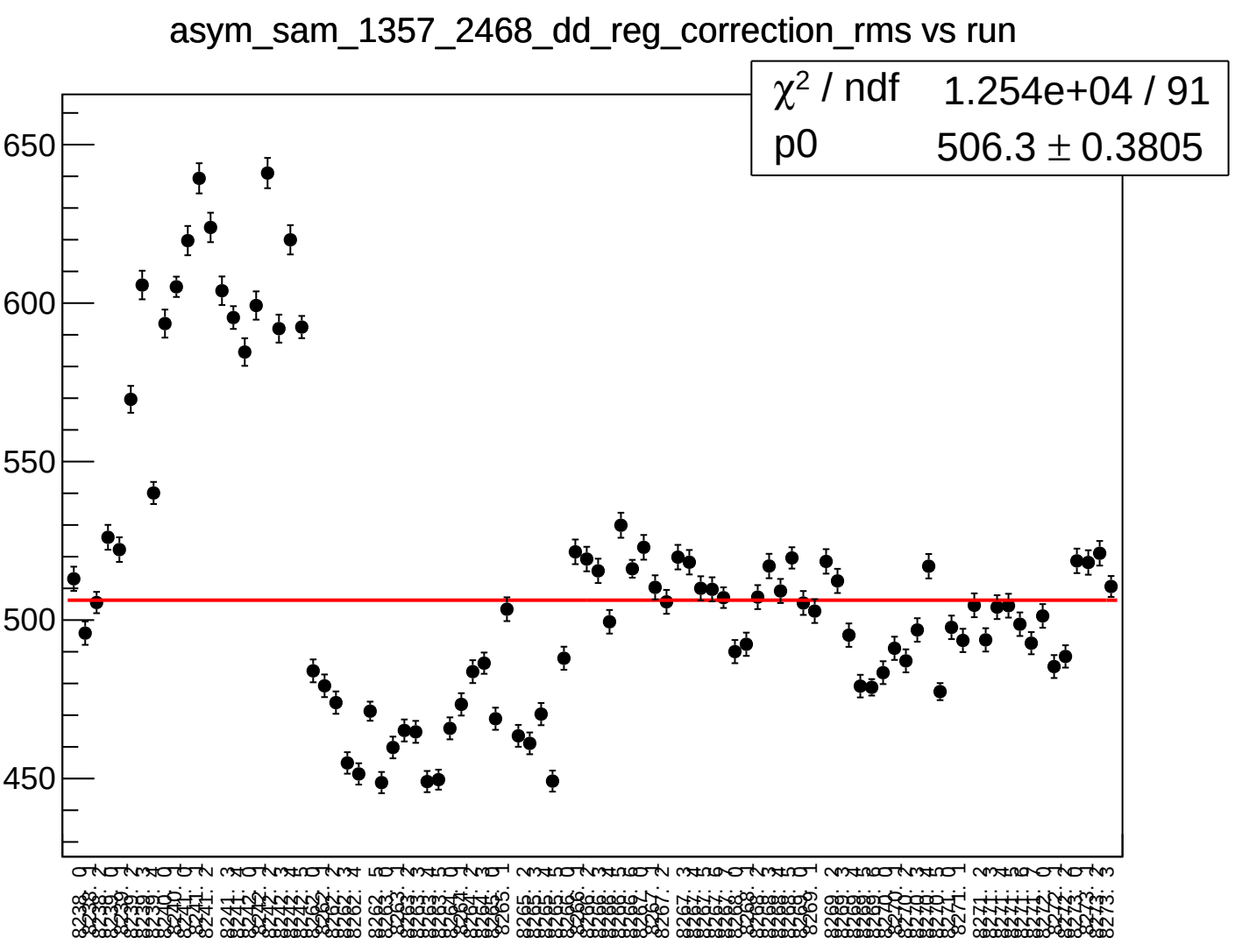

reg_asym_sam_1357_2468_dd_mean vs run
$\chi^2$ / ndf 89.39 / 91
p0 23.96 ± 29.07
1000
500
0
−500
−1000
pull
Entries 92
Mean 38.09
Std Dev 52.75
2
1
0
−1
−2

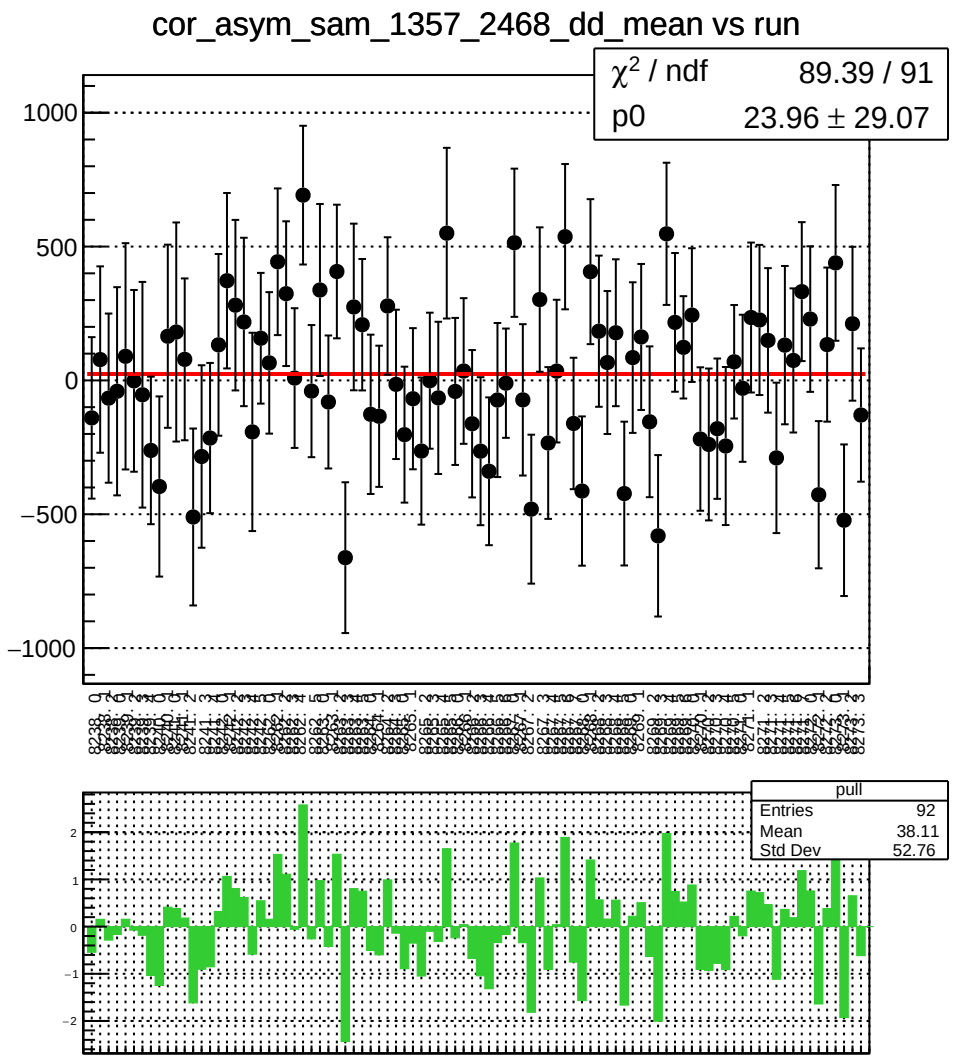

pull1D
Entries 92
Mean −0.01041
Std Dev 0.9856
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

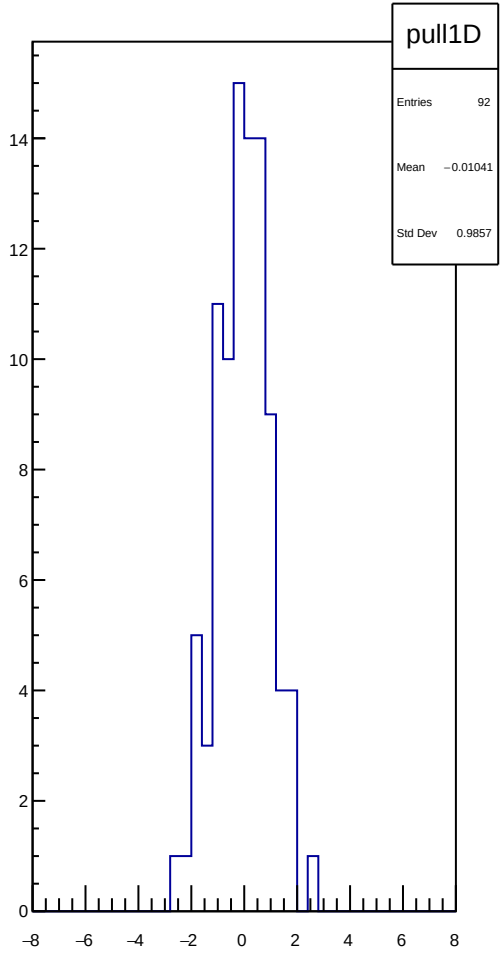

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.46e+04 / 91
p0 27.25 ± 0.02055
45
40
35
30
25

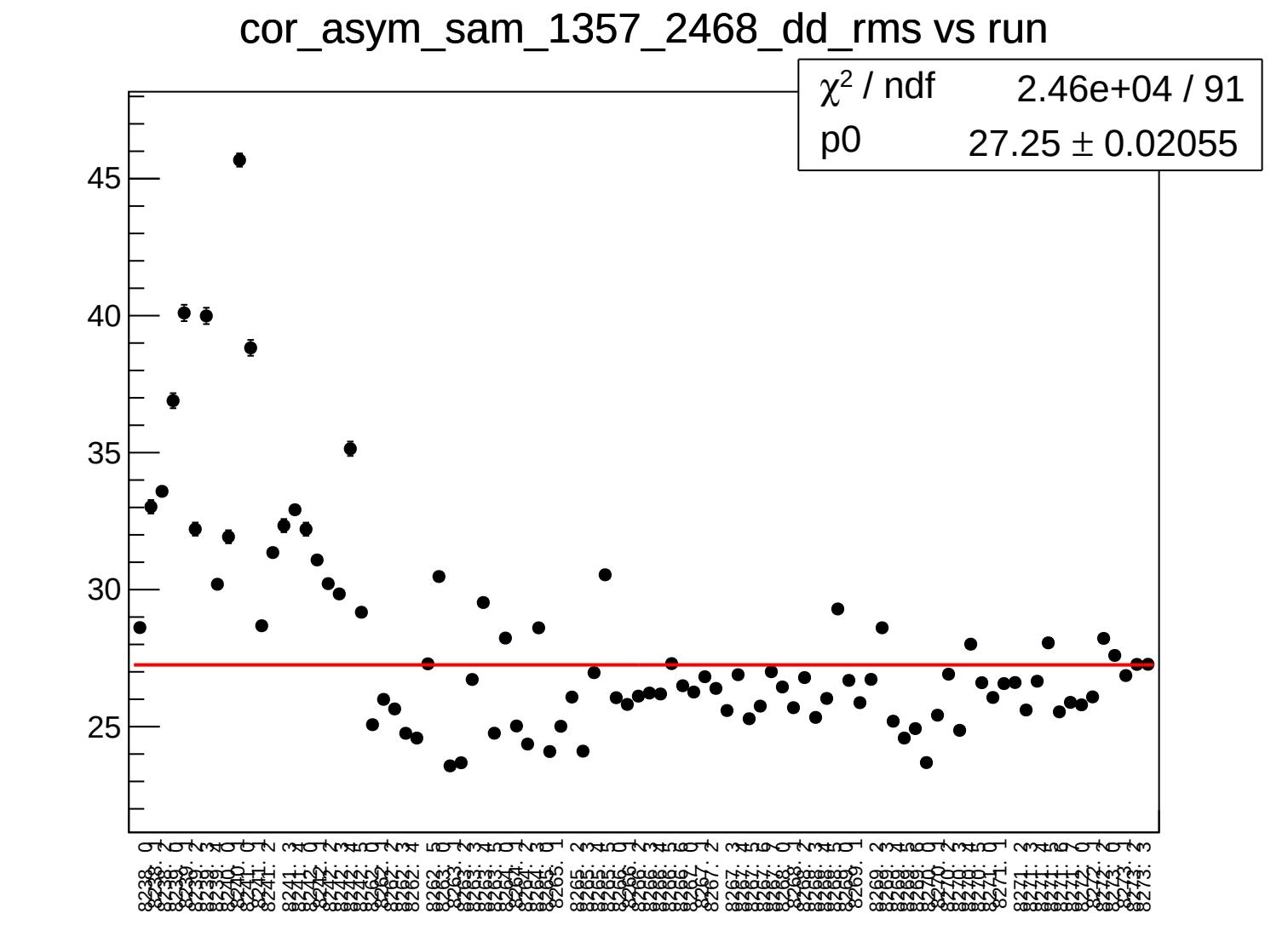

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 68.72 / 91
p0 1767 ± 538.1
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −1220
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

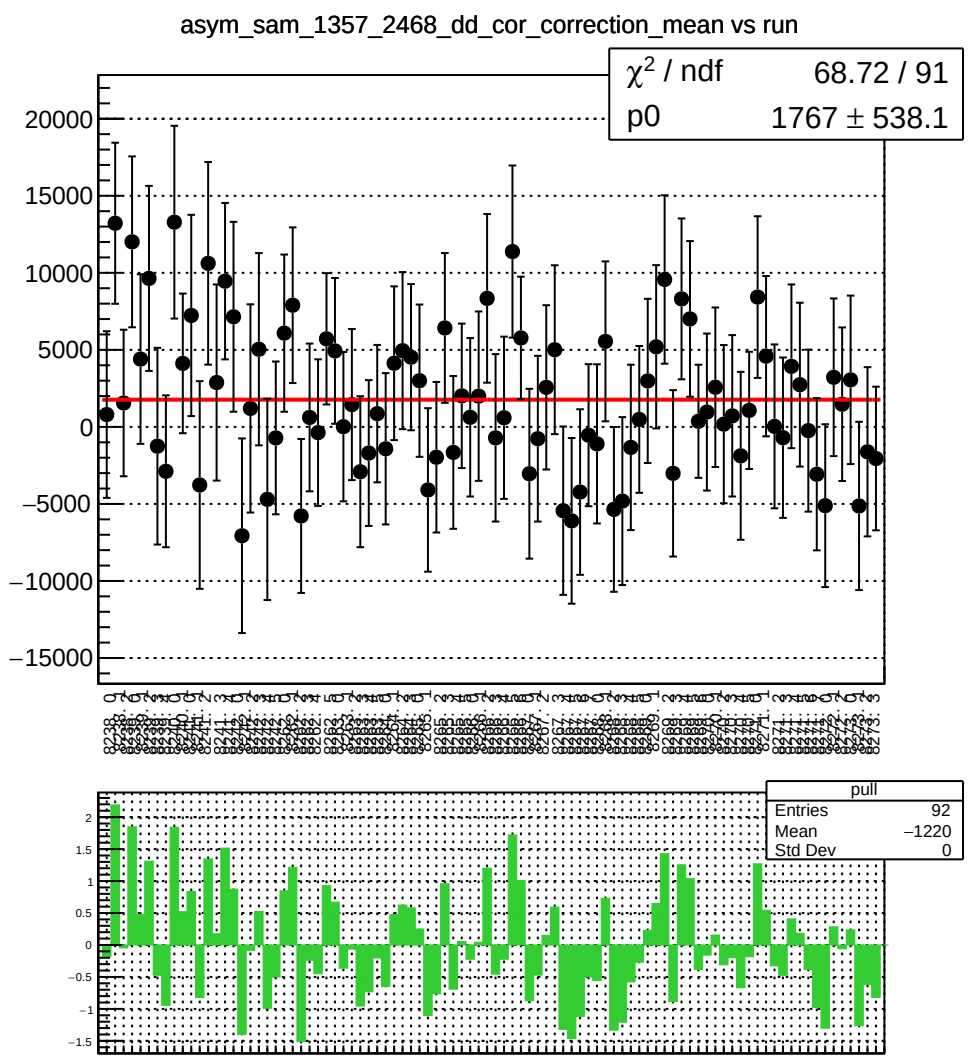

pull1D
Entries 92
Mean 0.004586
Std Dev 0.8643
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

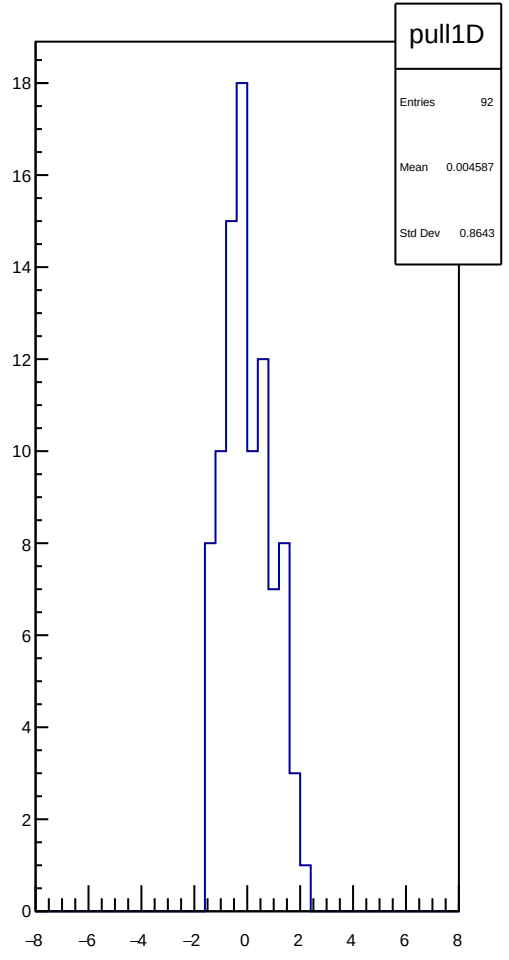

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 1.254e+04 / 91
p0 506.3 ± 0.3805
650
600
550
500
450

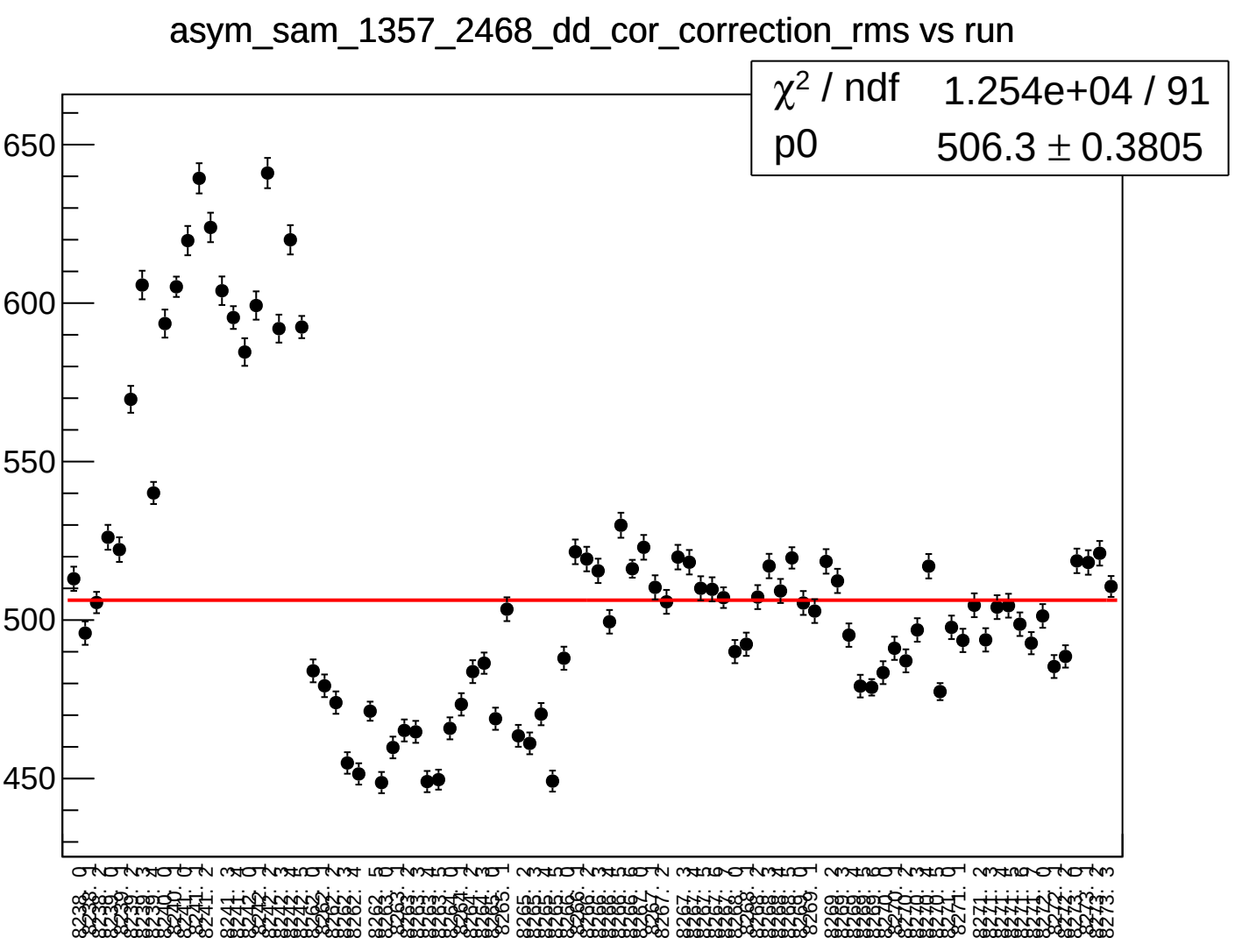

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 89.39 / 91
p0 23.96 ± 29.07
1000
500
0
−500
−1000
pull
Entries 92
Mean 38.11
Std Dev 52.76
2
1
0
−1
−2

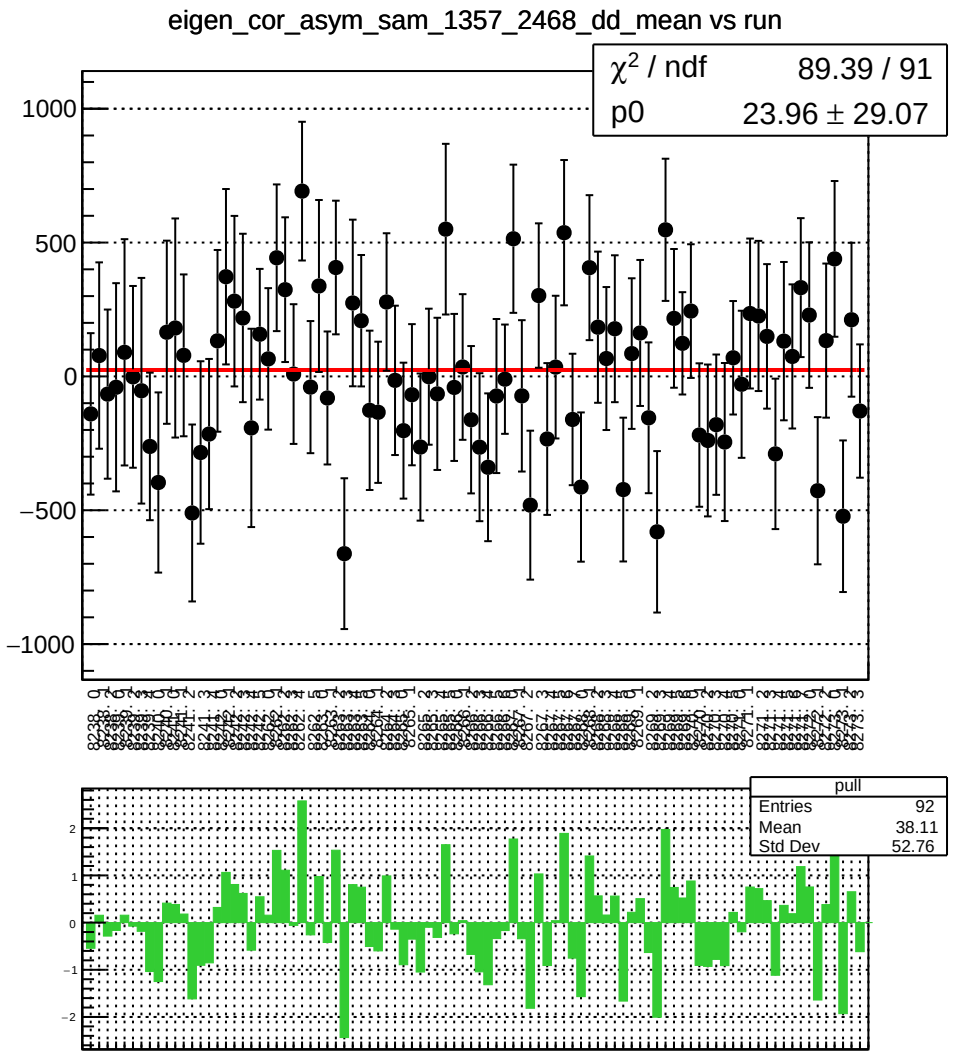

pull1D
Entries 92
Mean −0.01041
Std Dev 0.9857
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

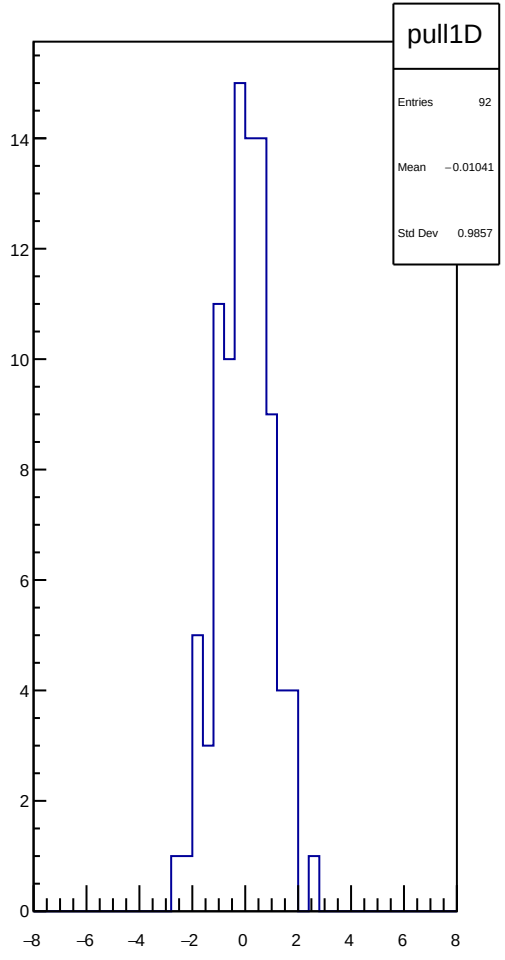

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.46e+04 / 91
p0 27.25 ± 0.02055
45
40
35
30
25

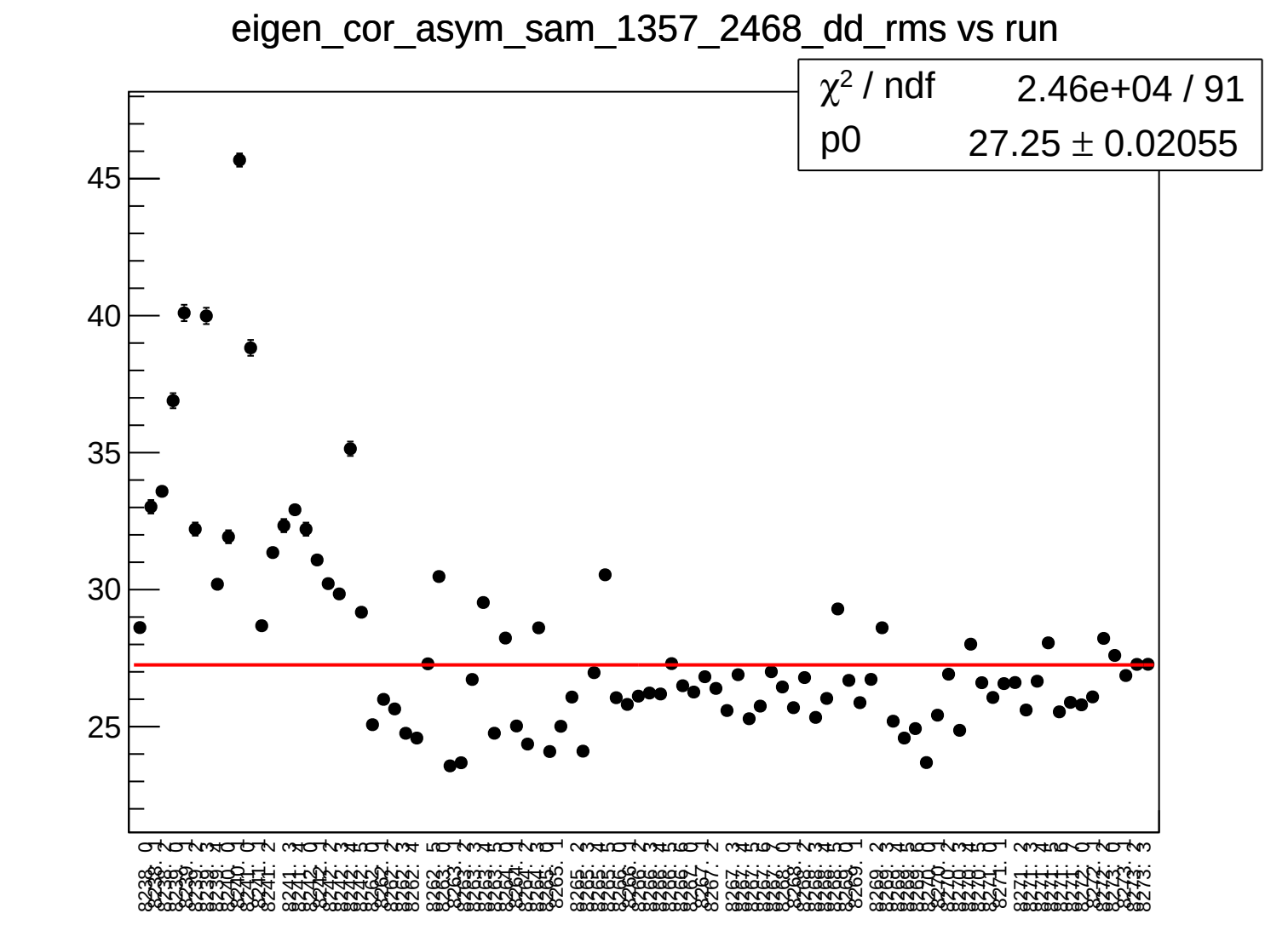

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 68.72 / 91
p0 1767 ± 538.1
pull
Entries 92
Mean −1220
Std Dev 0

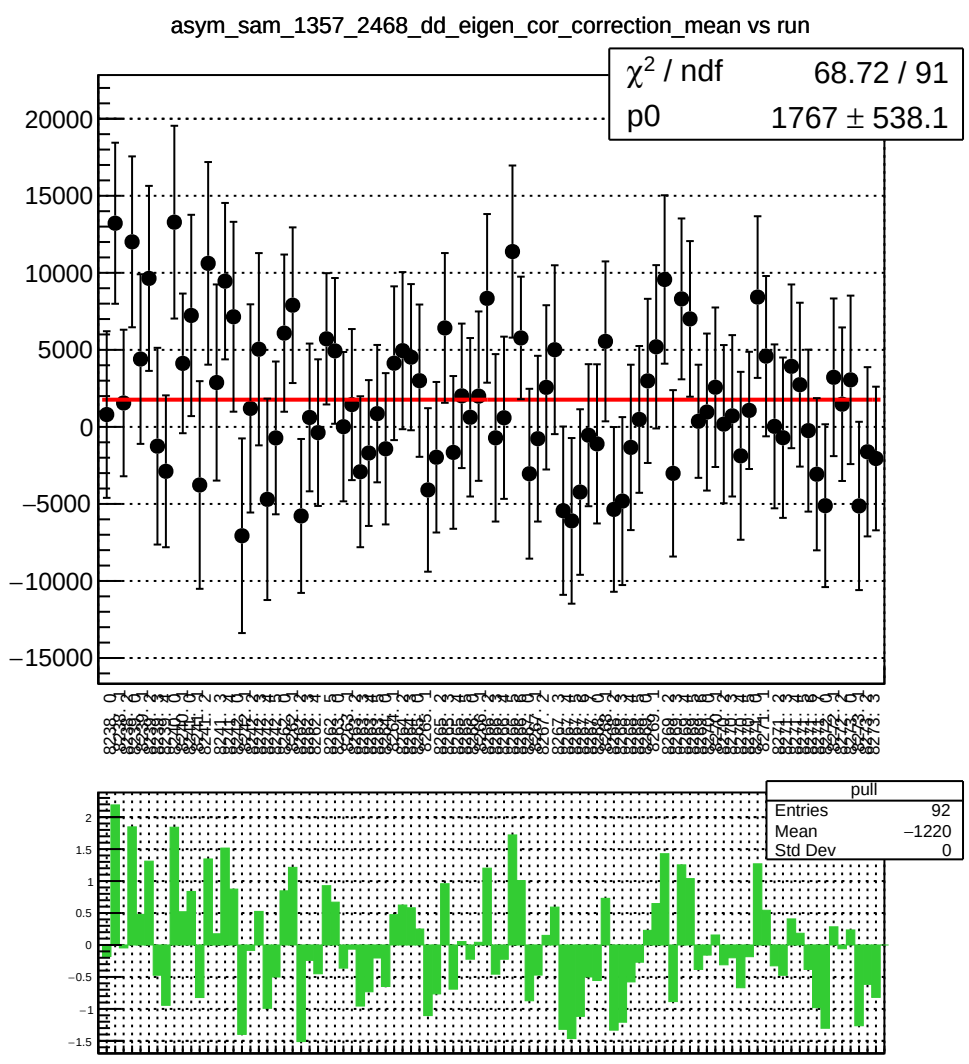

pull1D
Entries 92
Mean 0.004587
Std Dev 0.8643

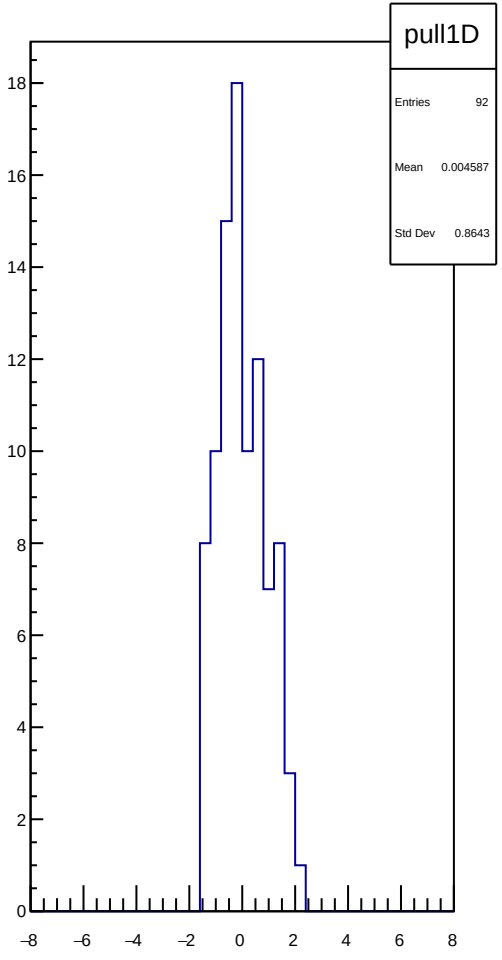

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 1.254e+04 / 91
p0 506.3 ± 0.3805
650
600
550
500
450

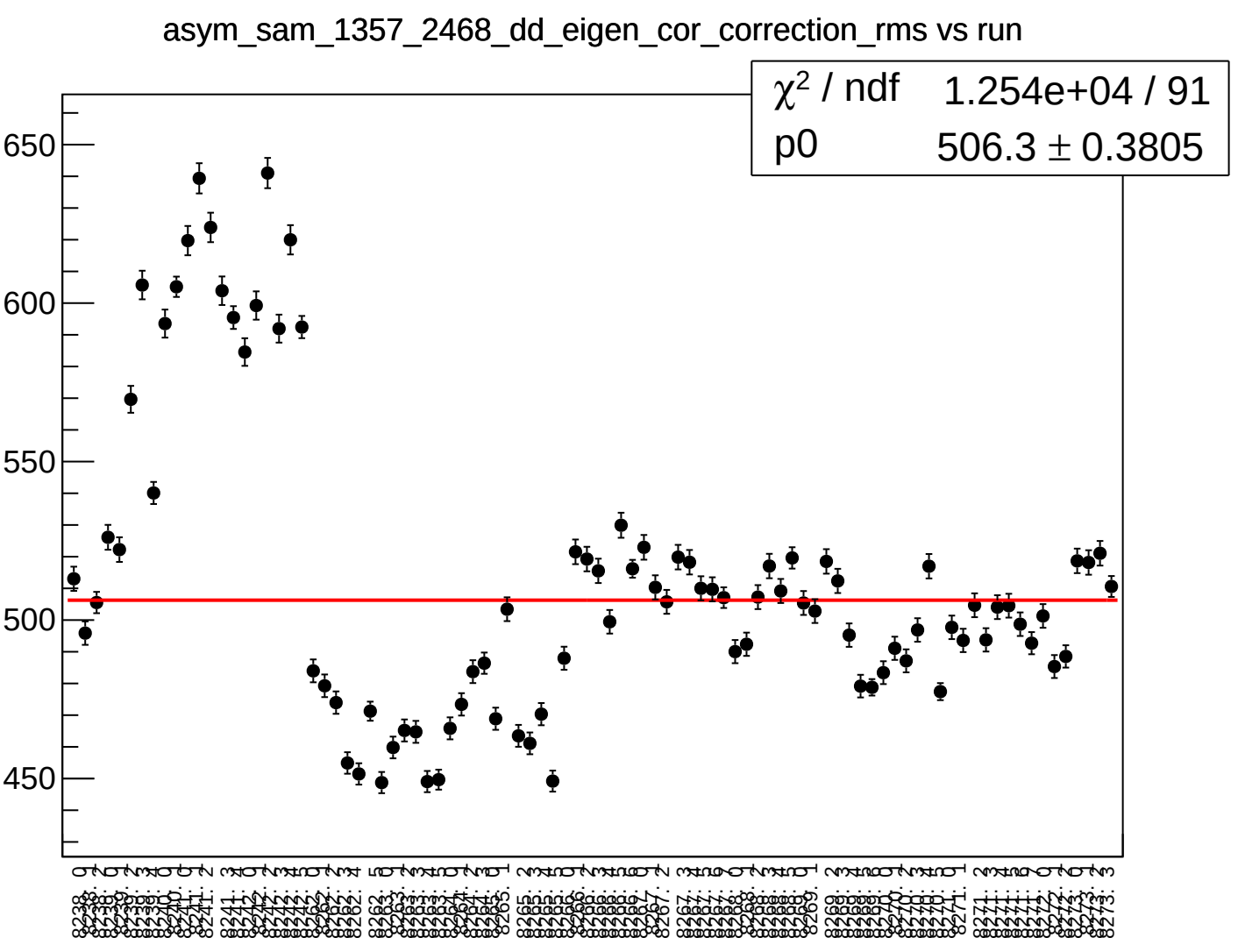

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 89.39 / 91
p0 23.96 ± 29.07
1000
500
0
−500
−1000
pull
Entries 92
Mean 38.11
Std Dev 52.76
2
1
0
−1
−2

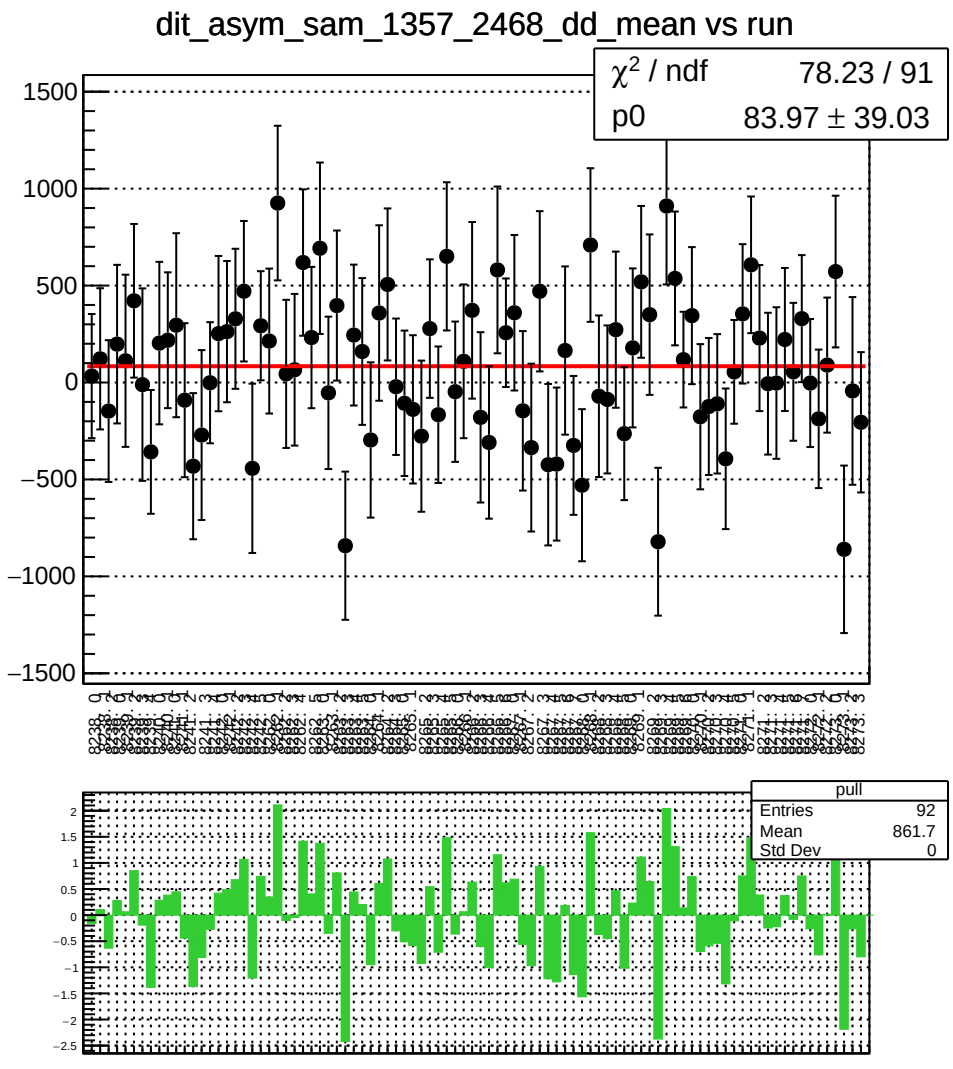

pull1D
Entries 92
Mean −0.01041
Std Dev 0.9857
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

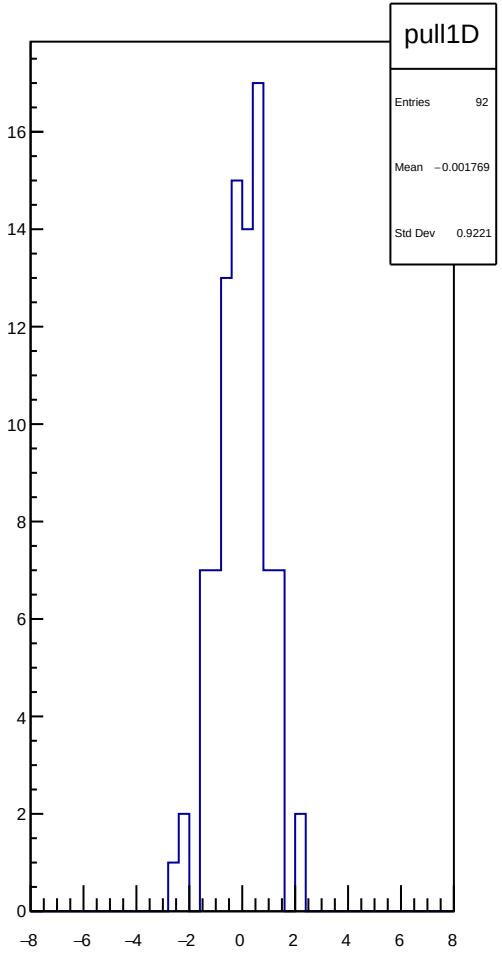

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.46e+04 / 91
p0 27.25 ± 0.02055
45
40
35
30
25

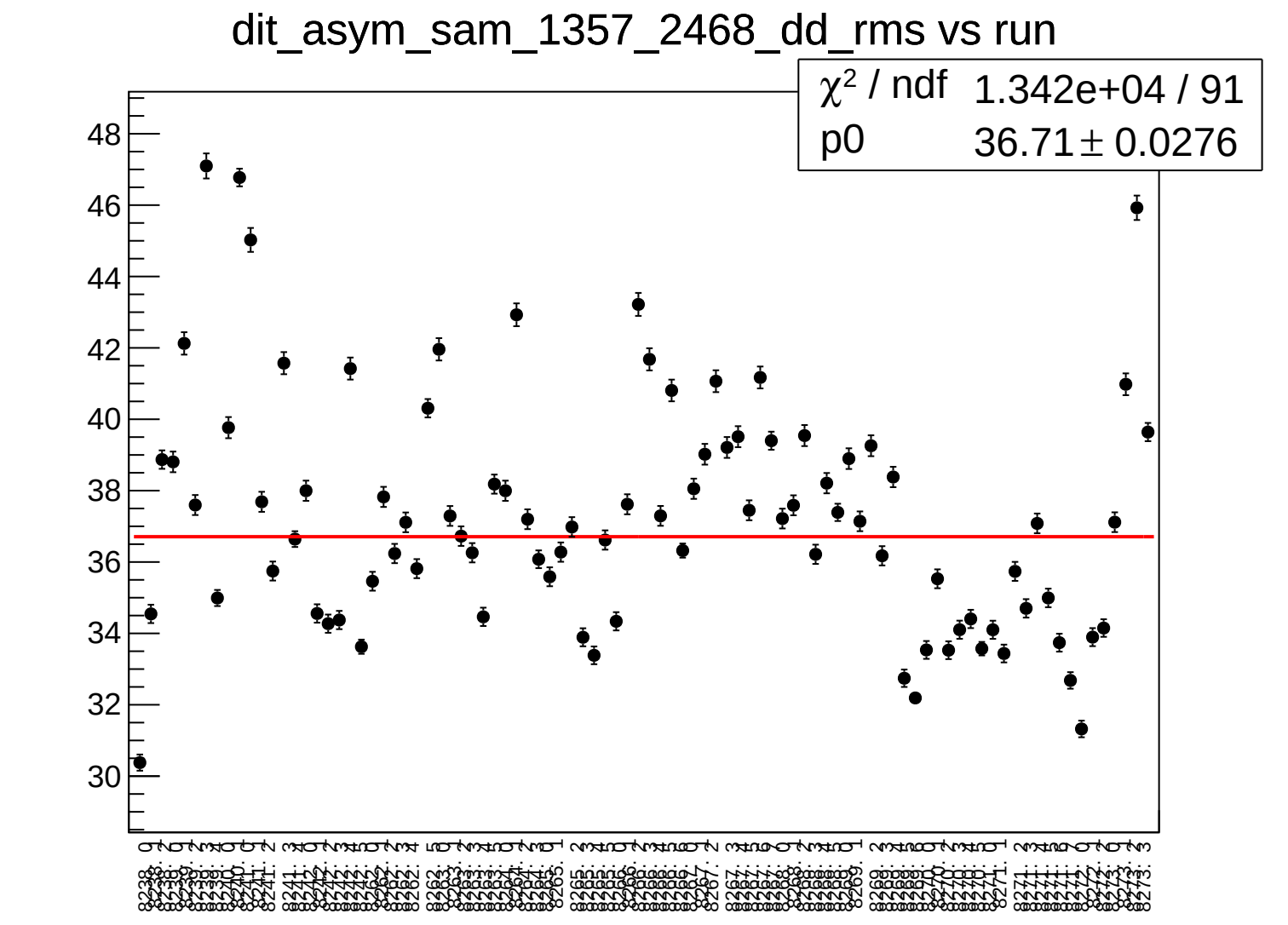

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 68.72 / 91
p0 1767 ± 538.1
pull
Entries 92
Mean −1220
Std Dev 0

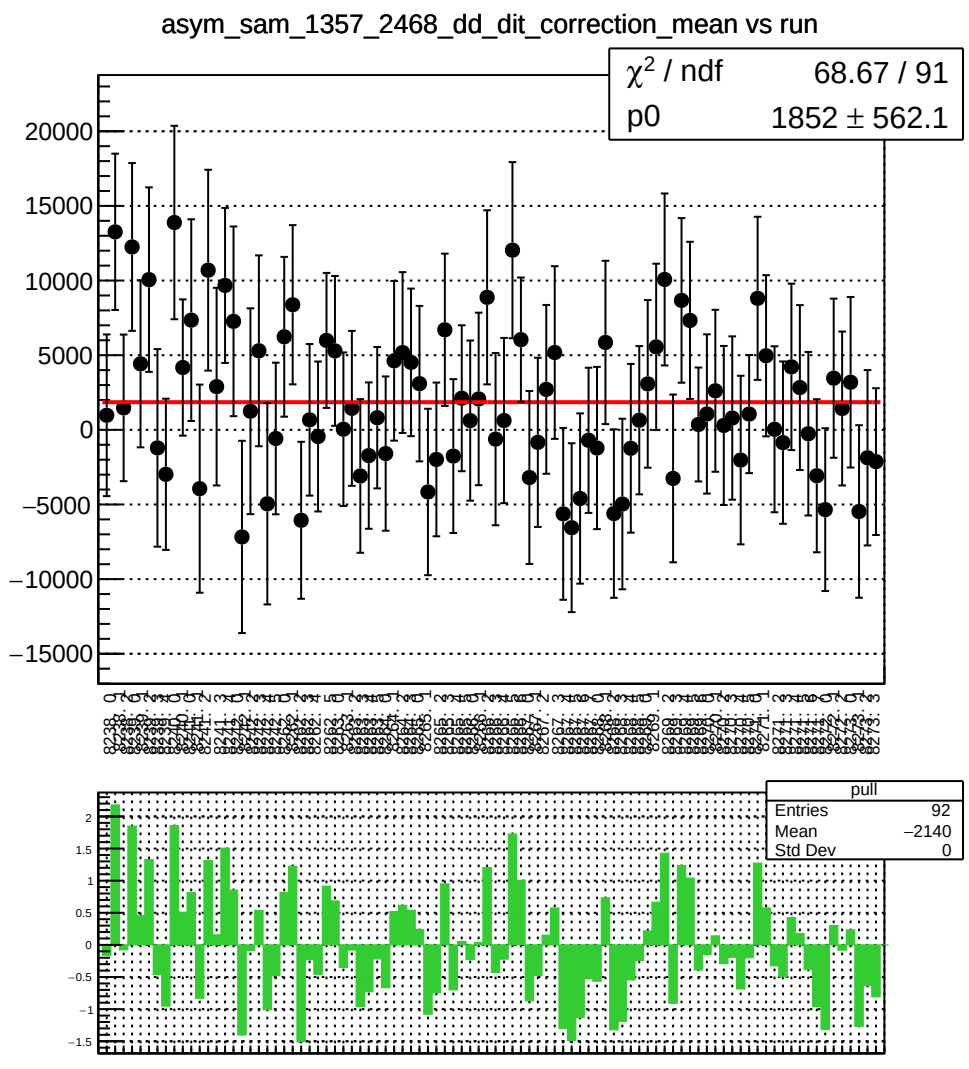

pull1D
Entries 92
Mean 0.004587
Std Dev 0.8643

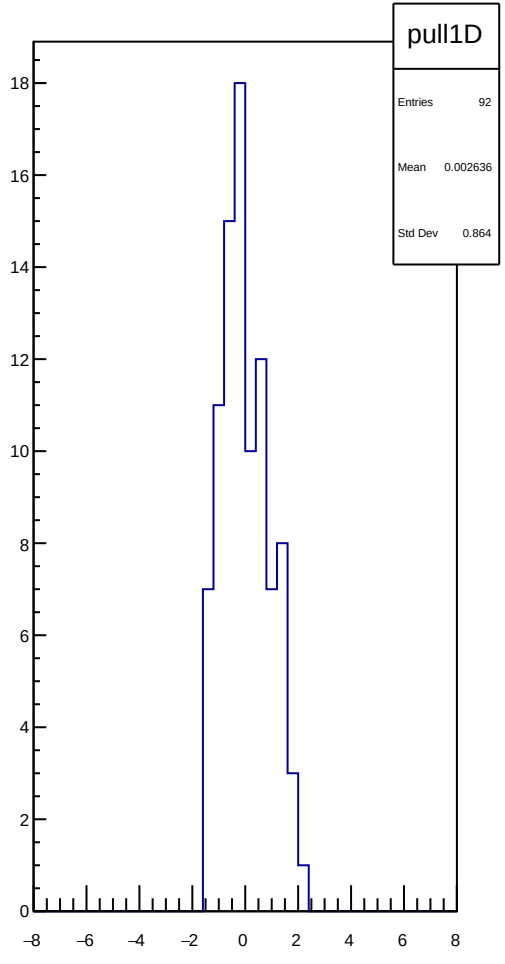

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.254e+04 / 91
p0 506.3 ± 0.3805
650
600
550
500
450

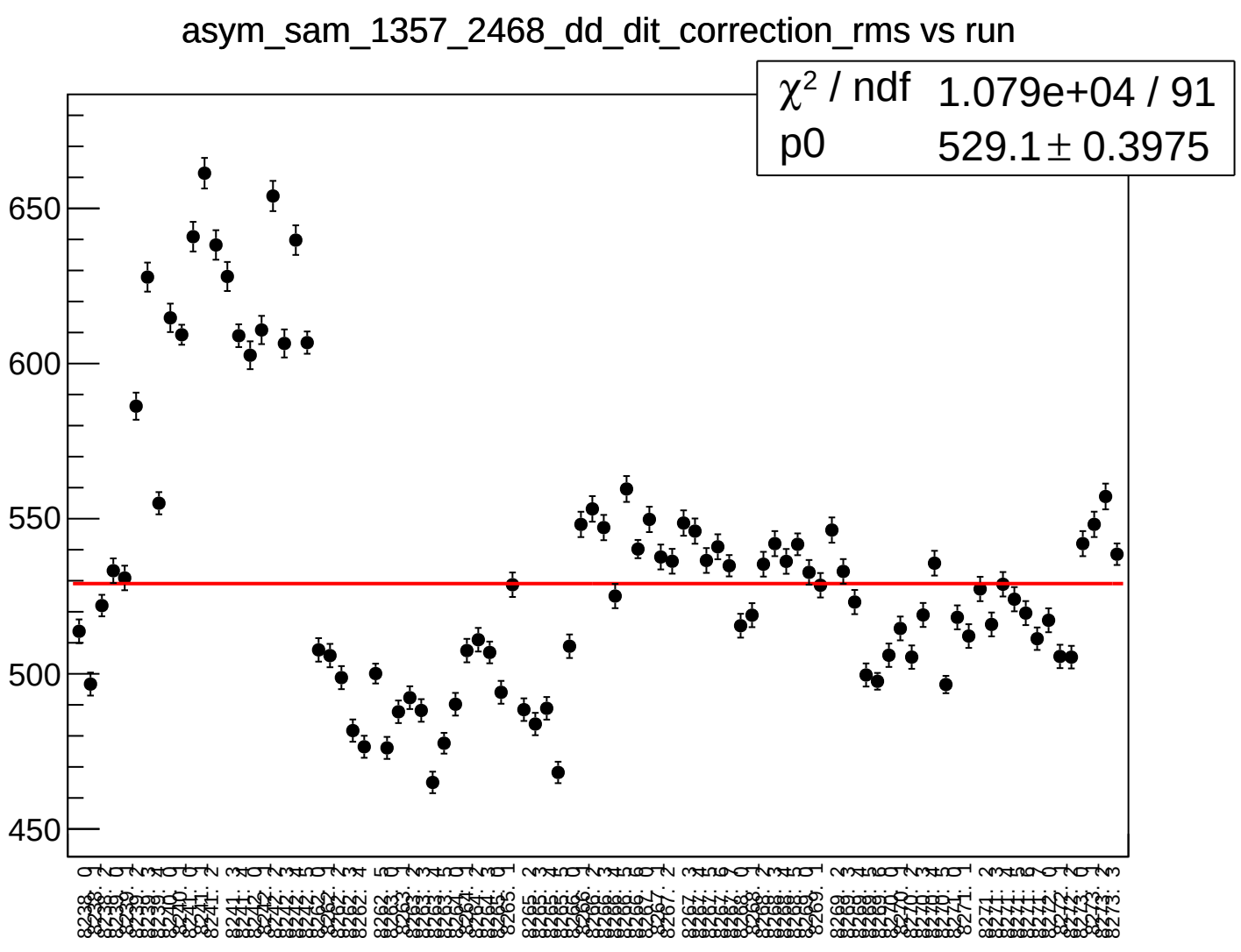

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 78.23 / 91
p0 83.97 ± 39.03
pull
Entries 92
Mean 861.7
Std Dev 0

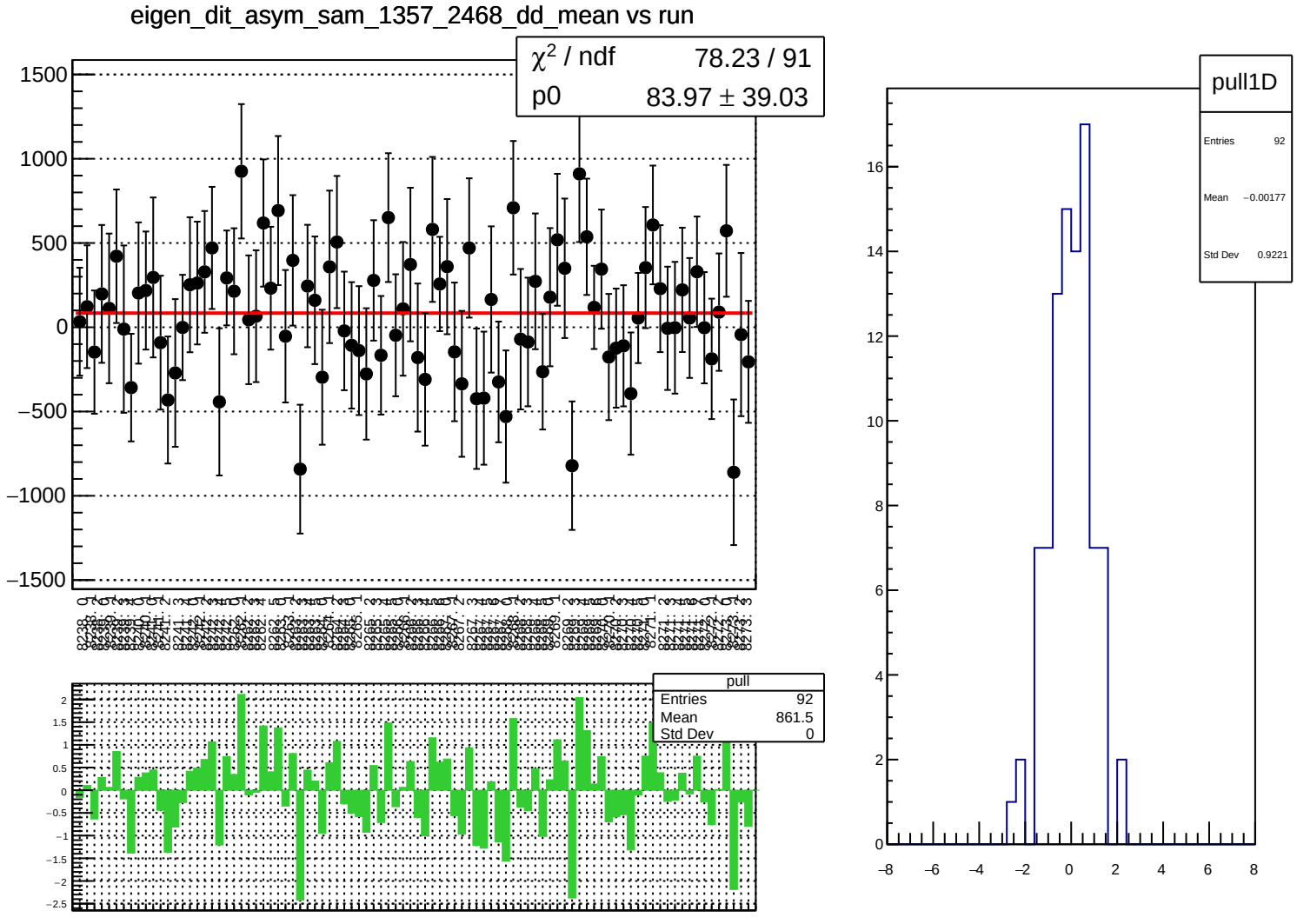

pull1D
Entries 92
Mean −0.001769
Std Dev 0.9221

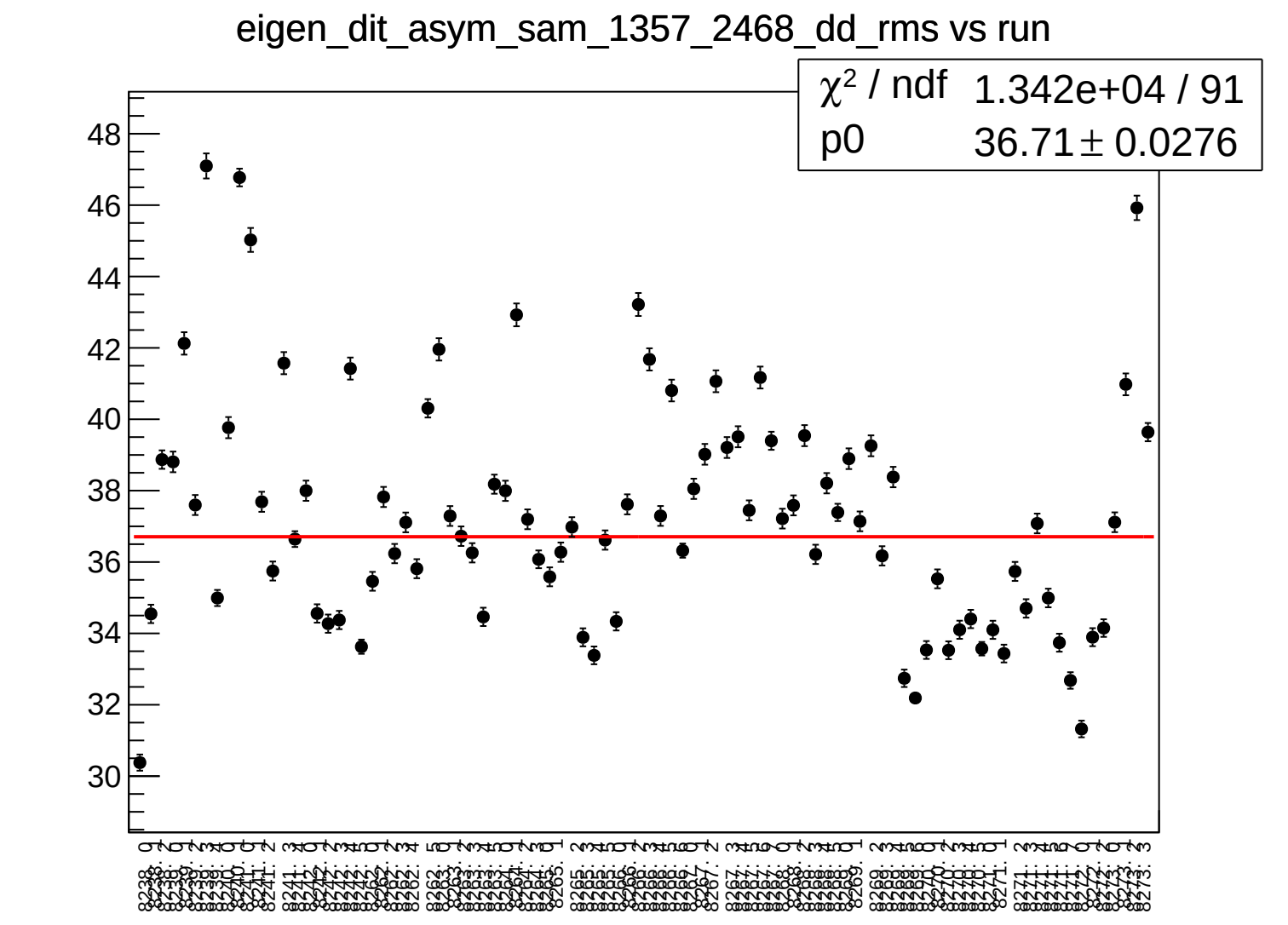

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.342e+04 / 91
p0 36.71 ± 0.0276
48
46
44
42
40
38
36
34
32
30

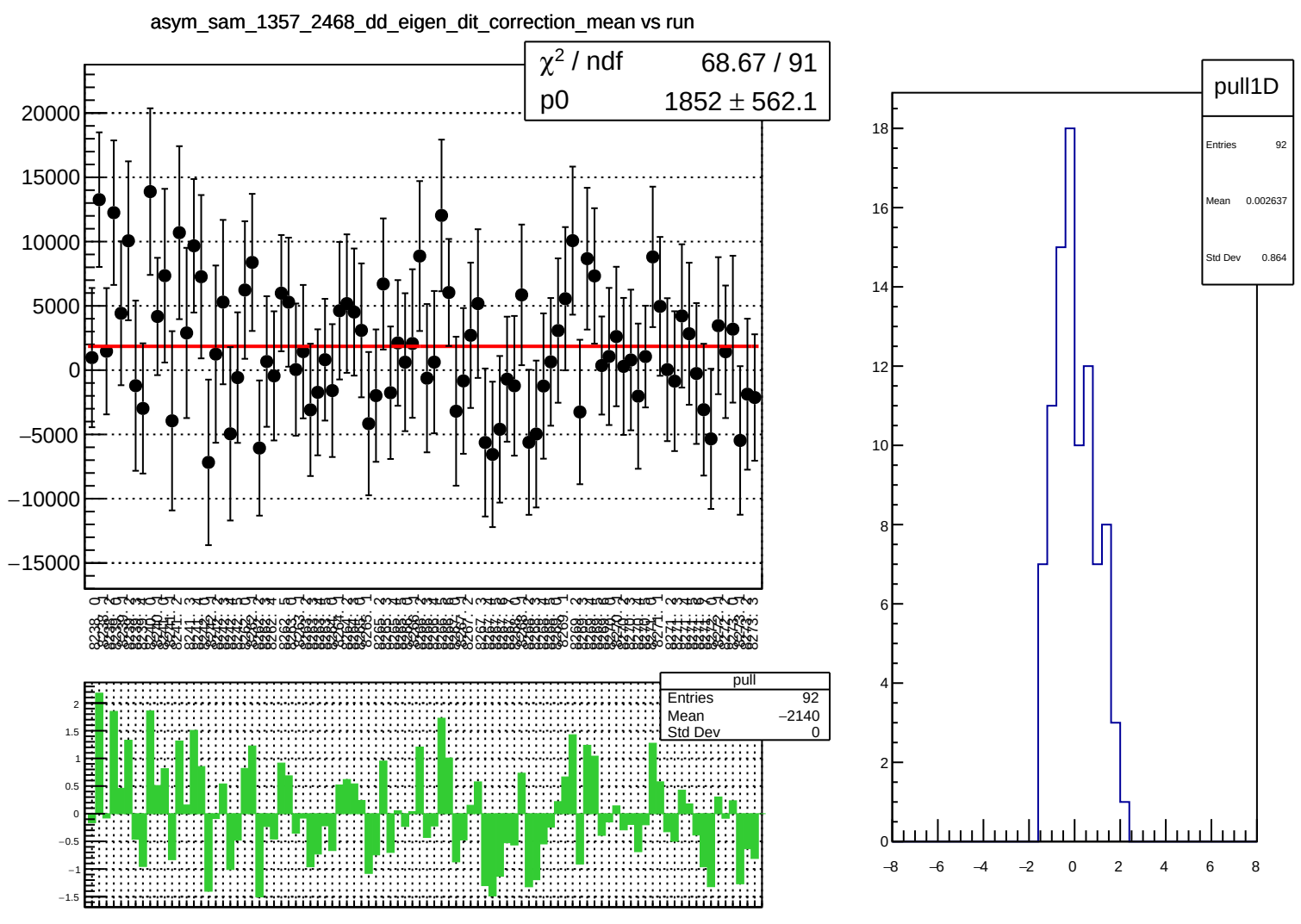

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 68.67 / 91
p0 1852 ± 562.1
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −2140
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

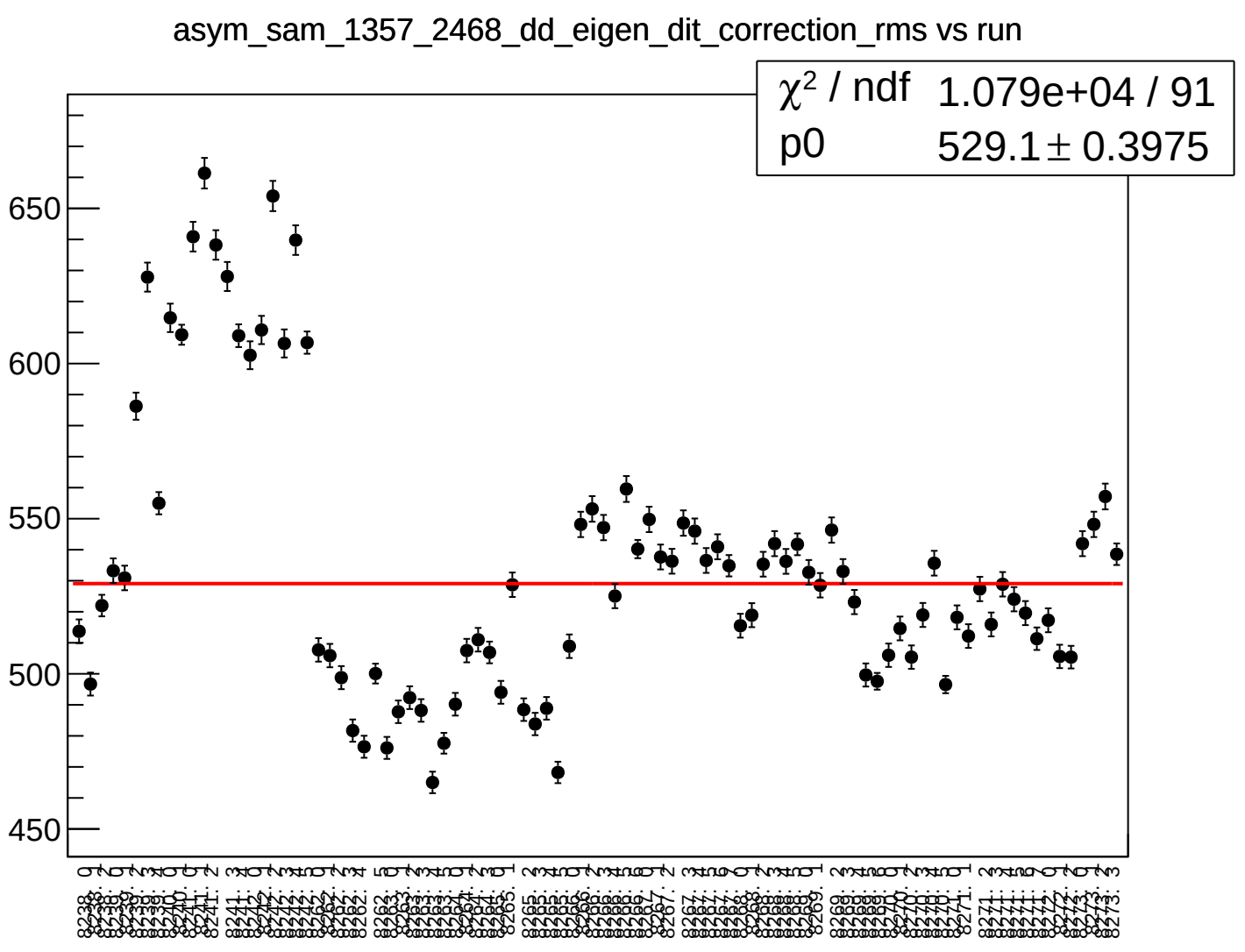

pull1D
Entries 92
Mean 0.002636
Std Dev 0.864
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

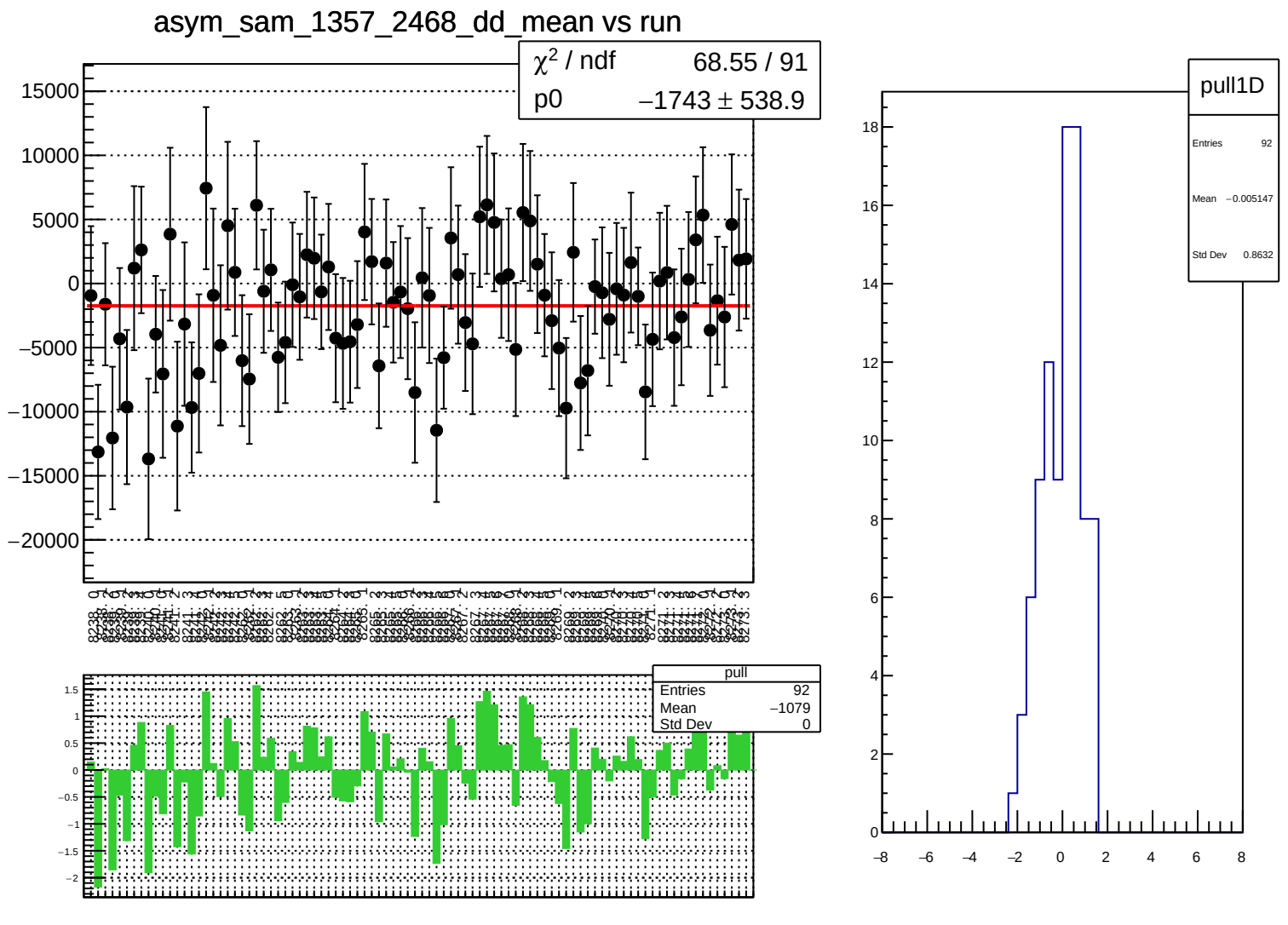

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 1.079e+04 / 91
p0 529.1 ± 0.3975
650
600
550
500
450

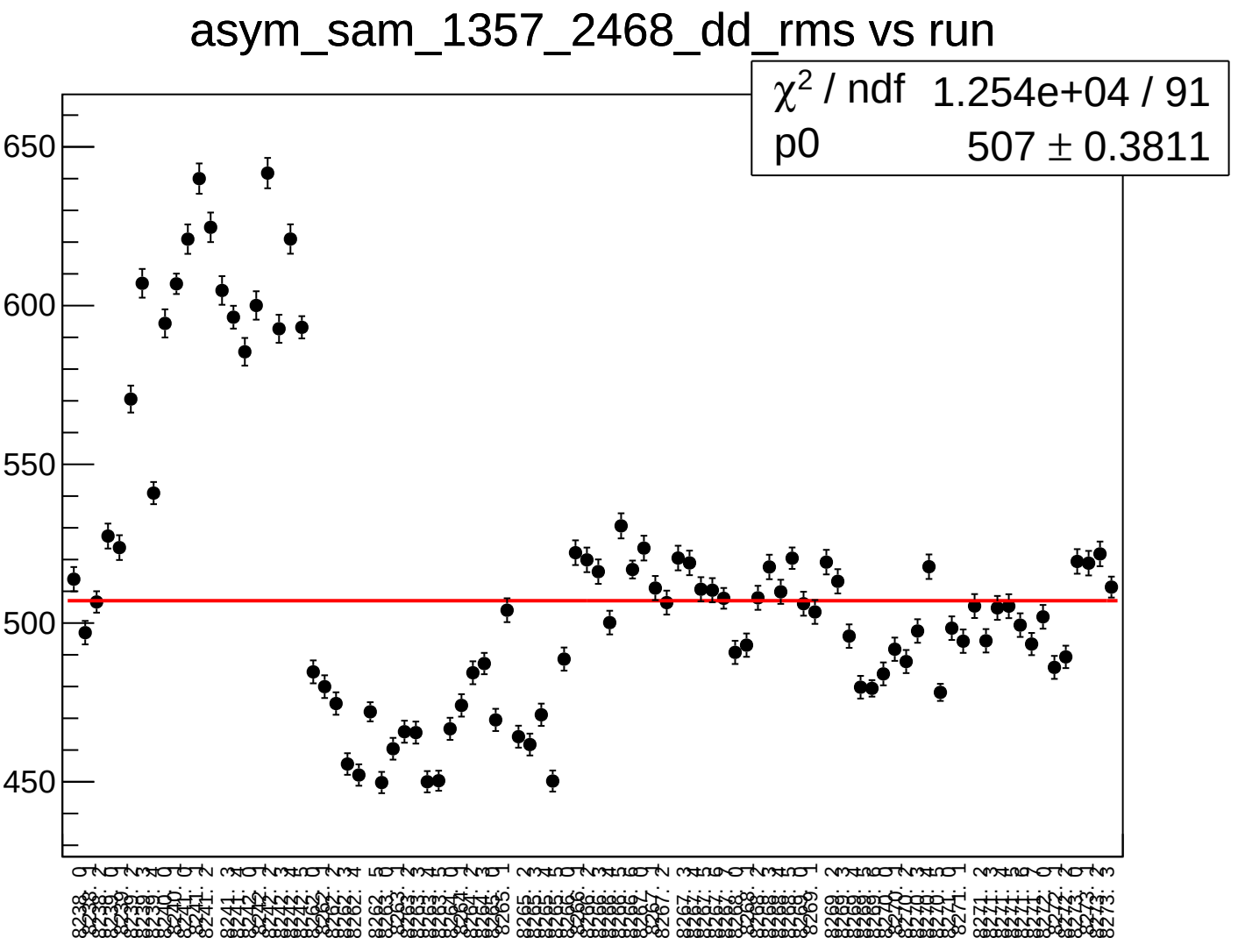

eigen_dit_asym_sam_1357_2468_dd_mean vs run
$\chi^2$ / ndf 78.23 / 91
p0 83.97 ± 39.03
pull
Entries 92
Mean 861.5
Std Dev 0
pull1D
Entries 92
Mean −0.00177
Std Dev 0.9221

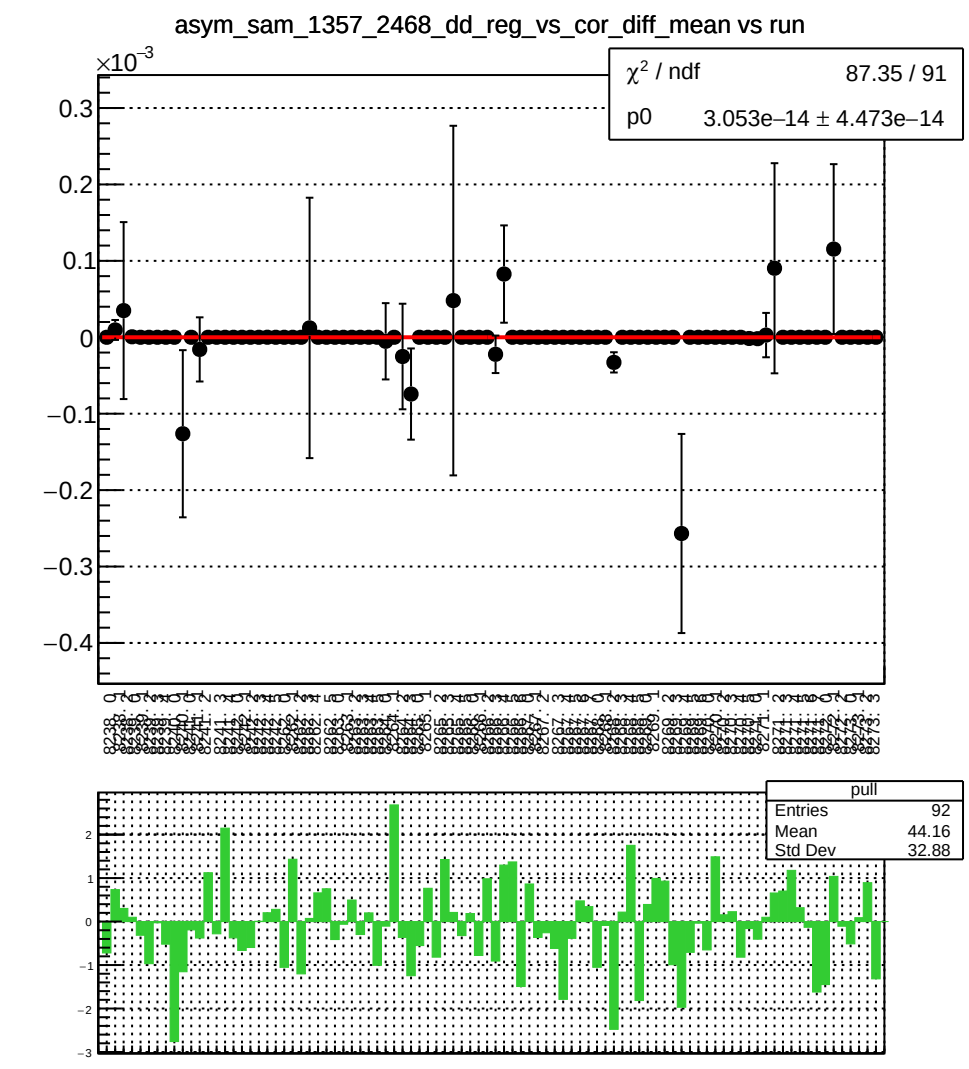

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.342e+04 / 91
p0 36.71 ± 0.0276
48
46
44
42
40
38
36
34
32
30

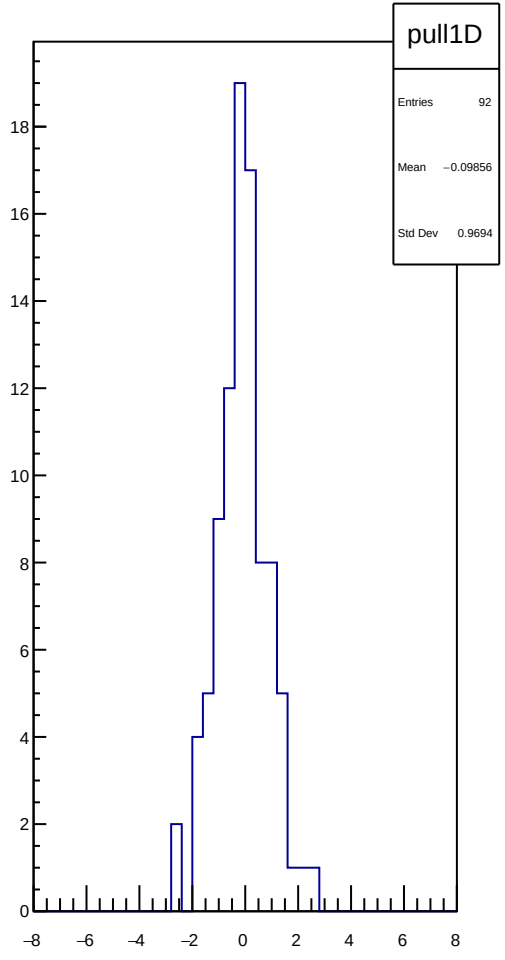

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
$\chi^2$ / ndf 68.67 / 91
p0 1852 ± 562.1
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −2140
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean 0.002637
Std Dev 0.864
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

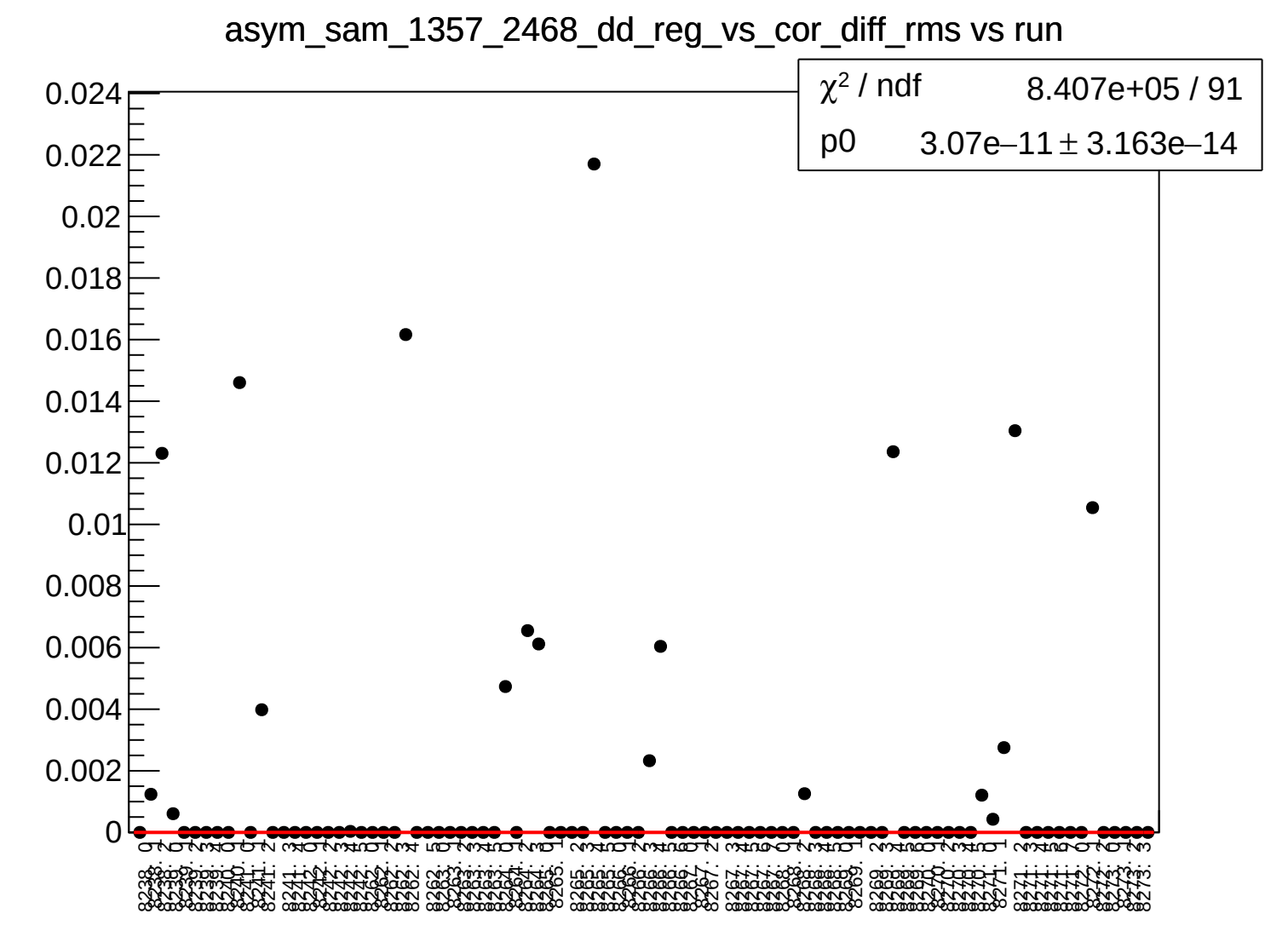

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.079e+04 / 91
p0 529.1 ± 0.3975
650
600
550
500
450

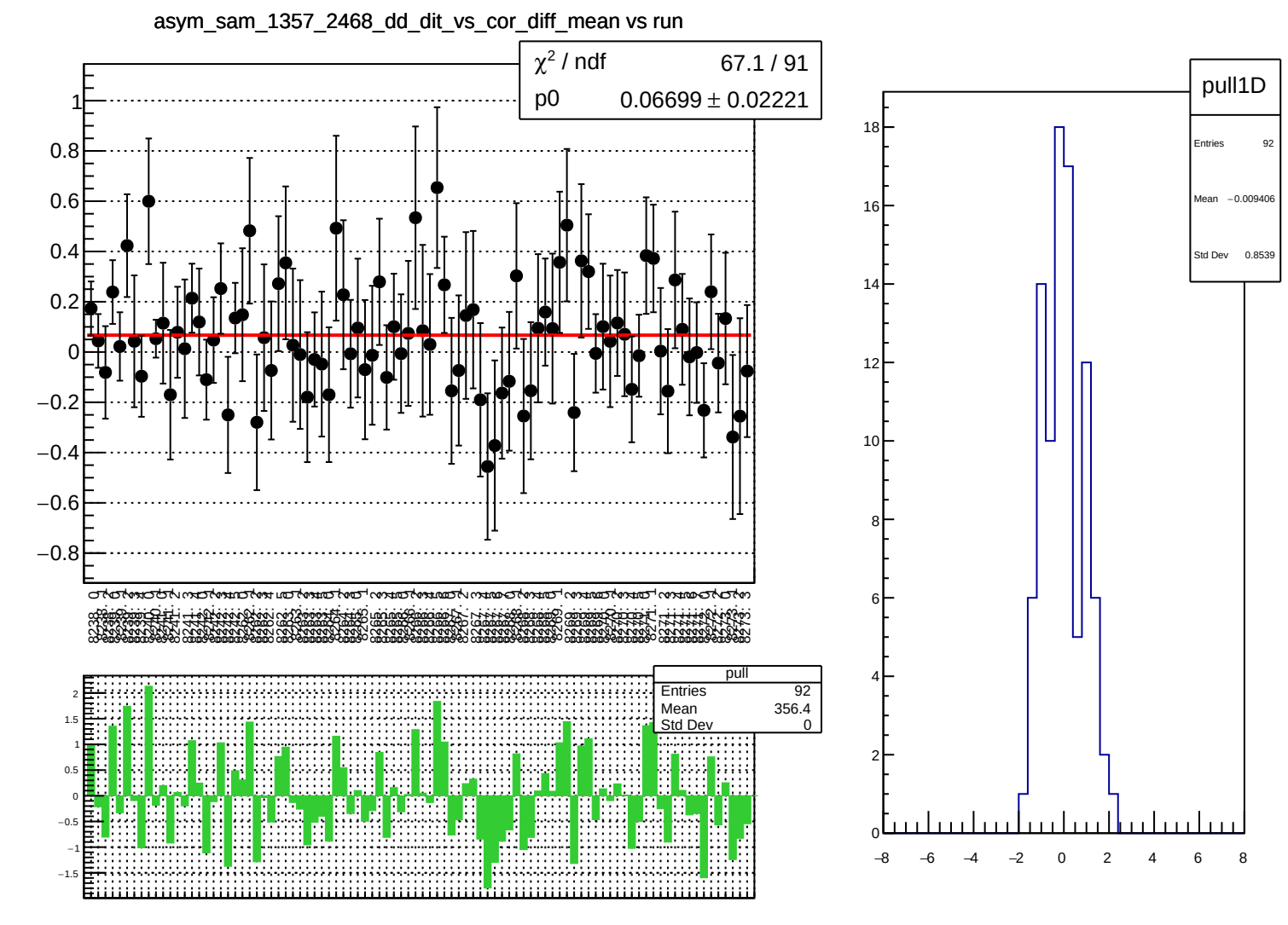

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 68.55 / 91
p0 −1743 ± 538.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean −1079
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.005147
Std Dev 0.8632
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

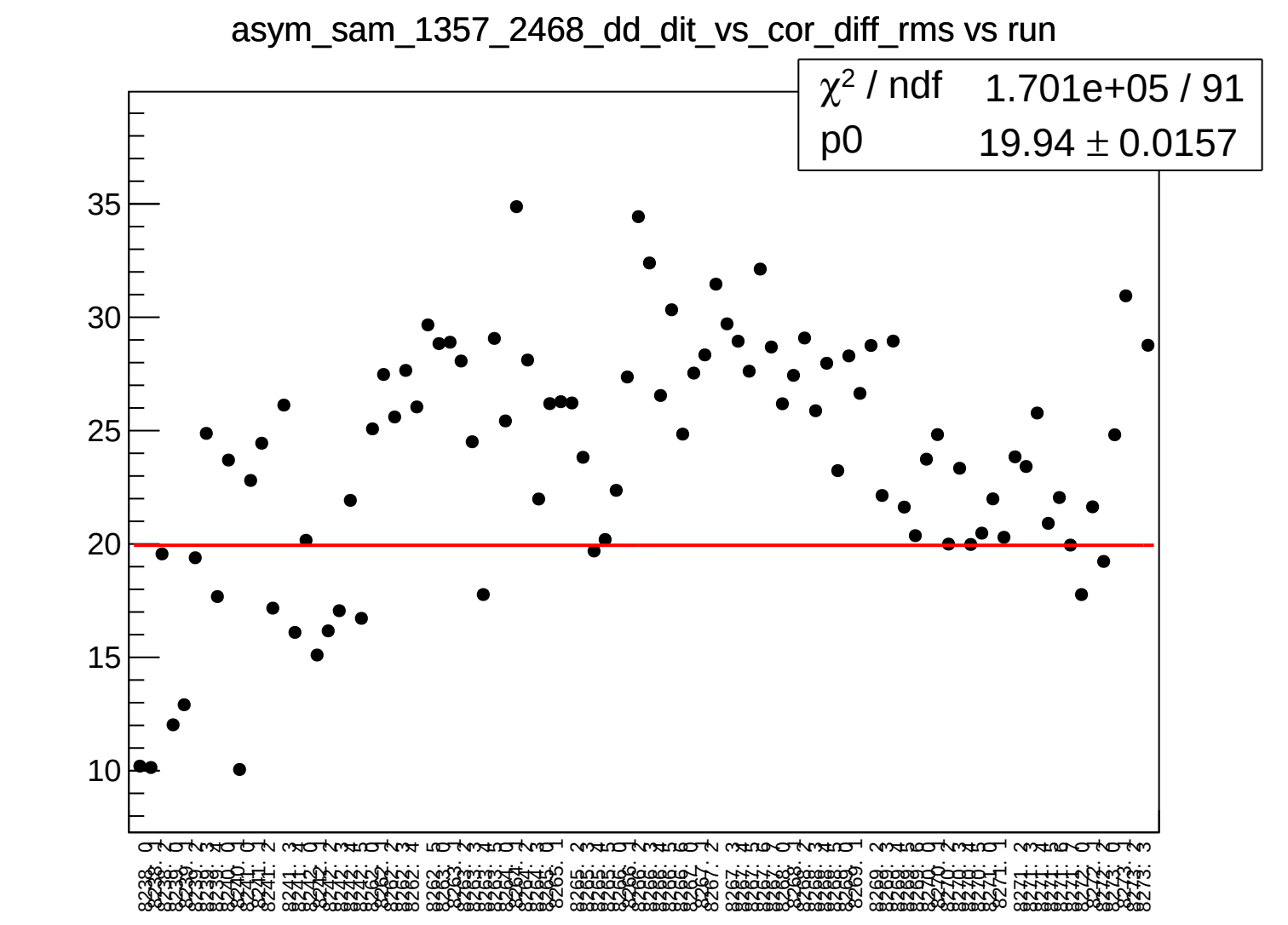

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.254e+04 / 91
p0 507 ± 0.3811
650
600
550
500
450

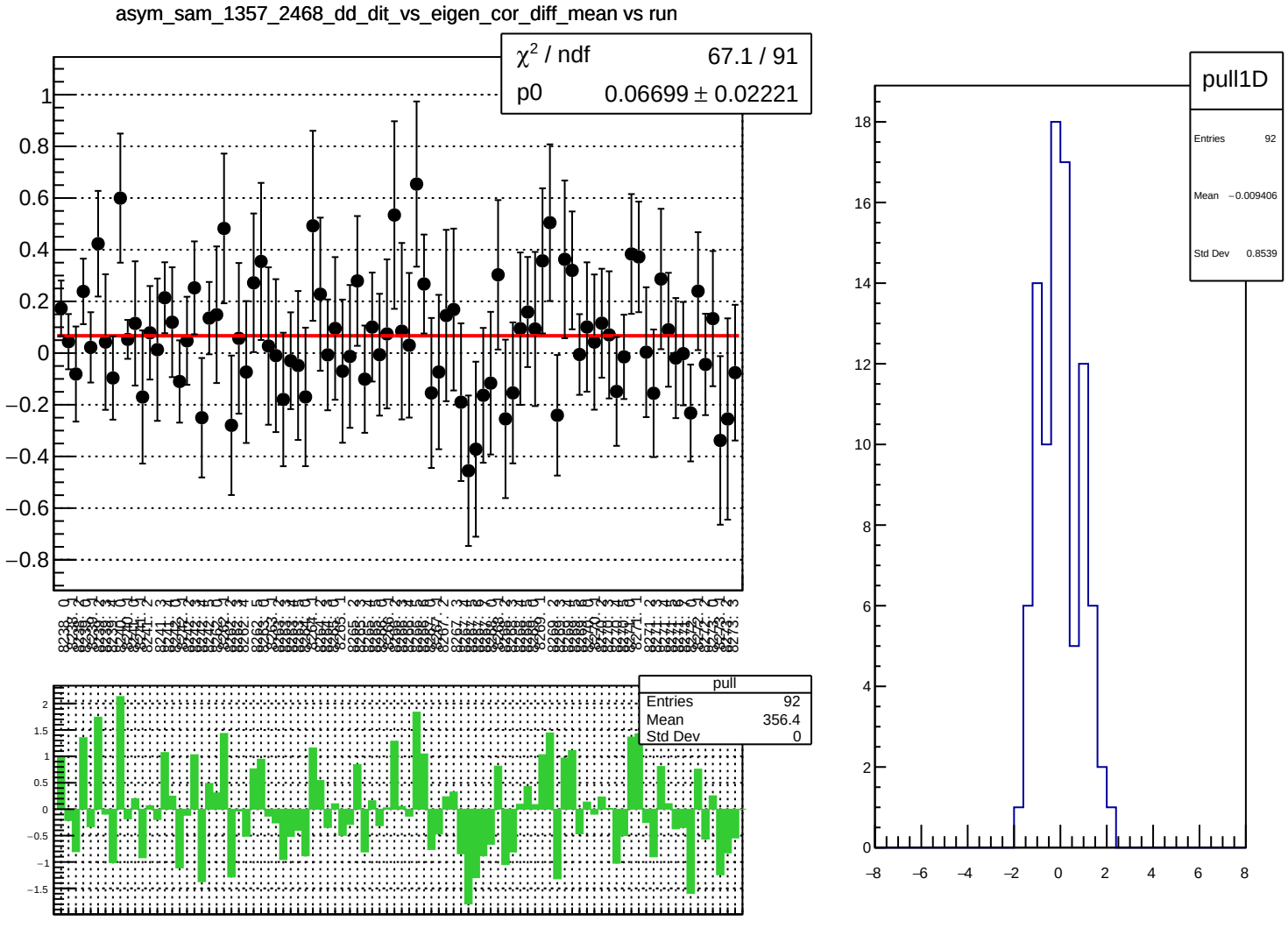

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 87.35 / 91
p0 3.053e−14 ± 4.473e−14
pull
Entries 92
Mean 44.16
Std Dev 32.88

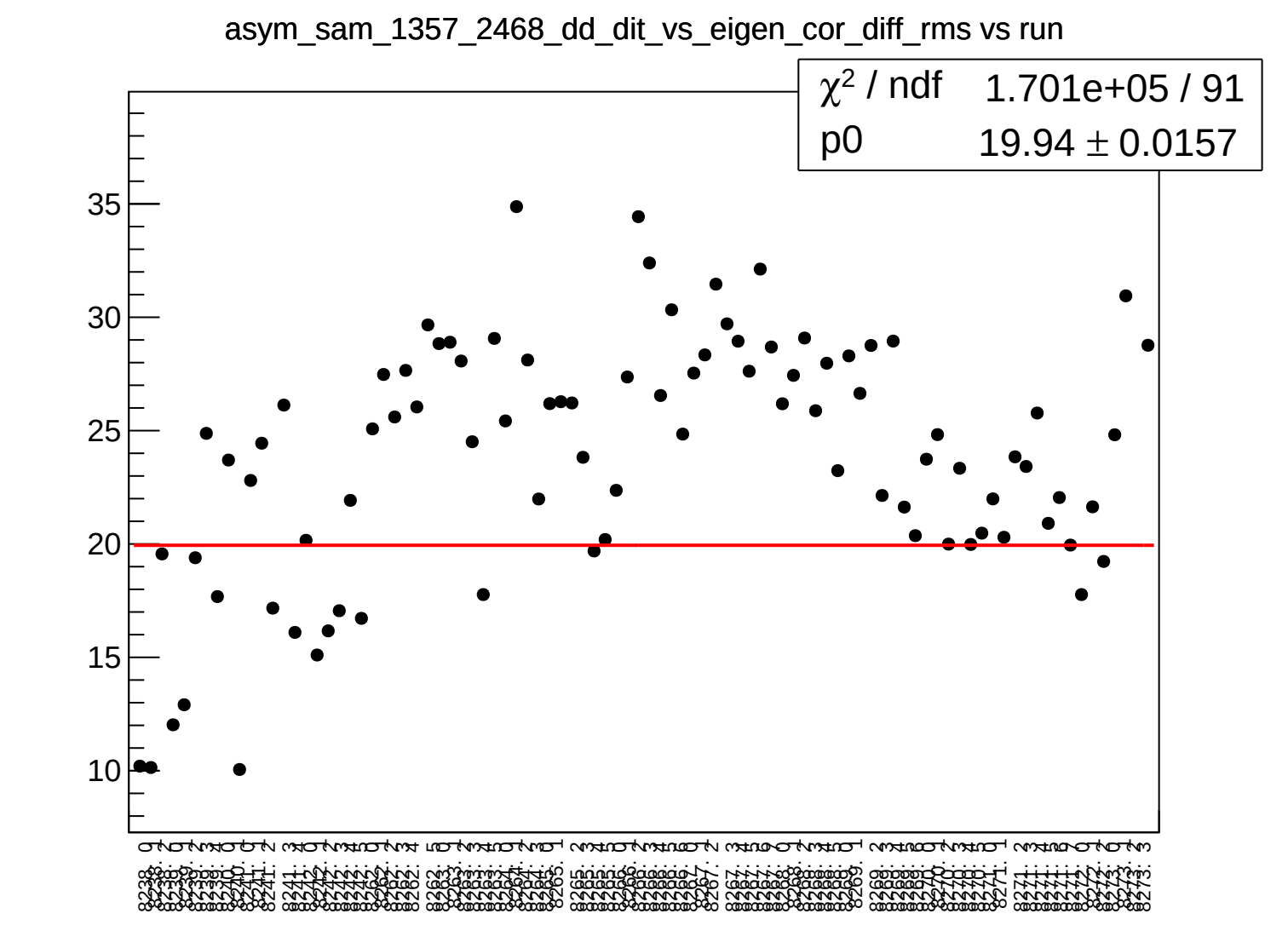

pull1D
Entries 92
Mean −0.09856
Std Dev 0.9694

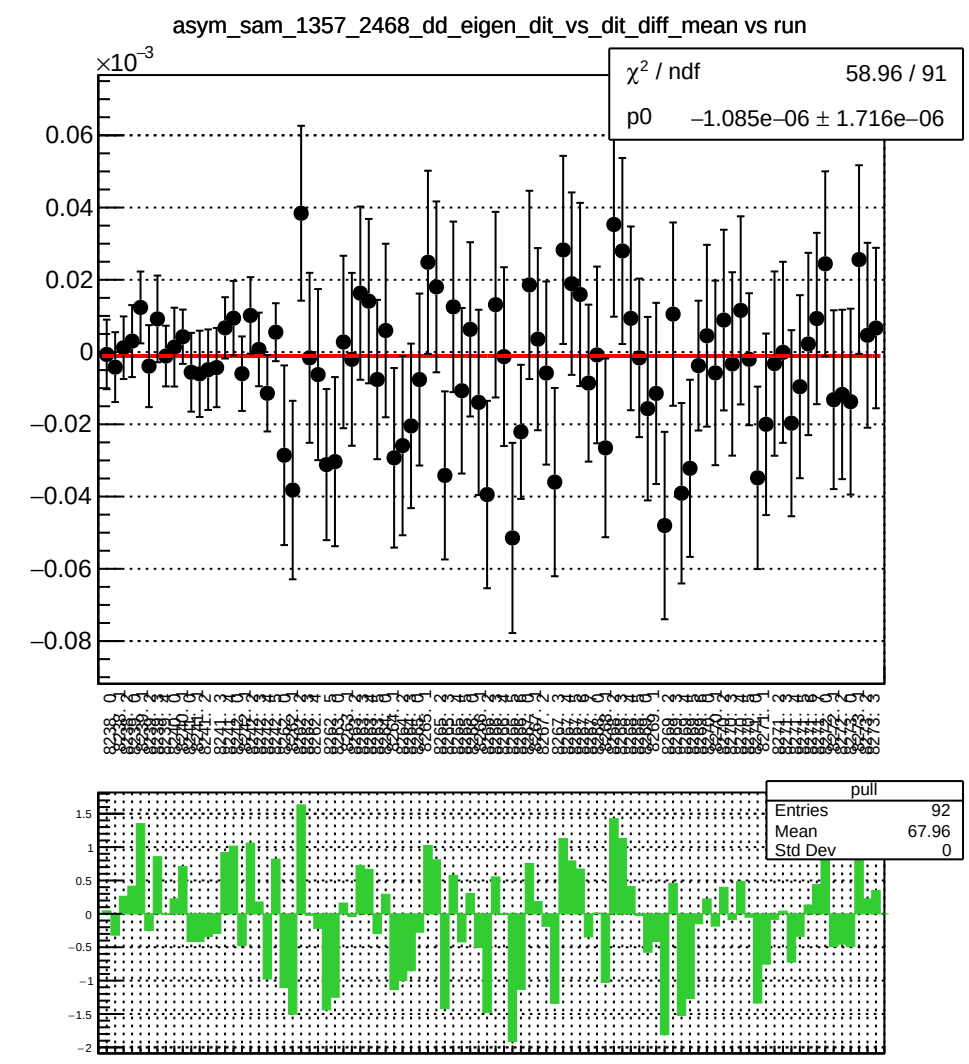

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.407e+05 / 91
p0 3.07e−11 ± 3.163e−14
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

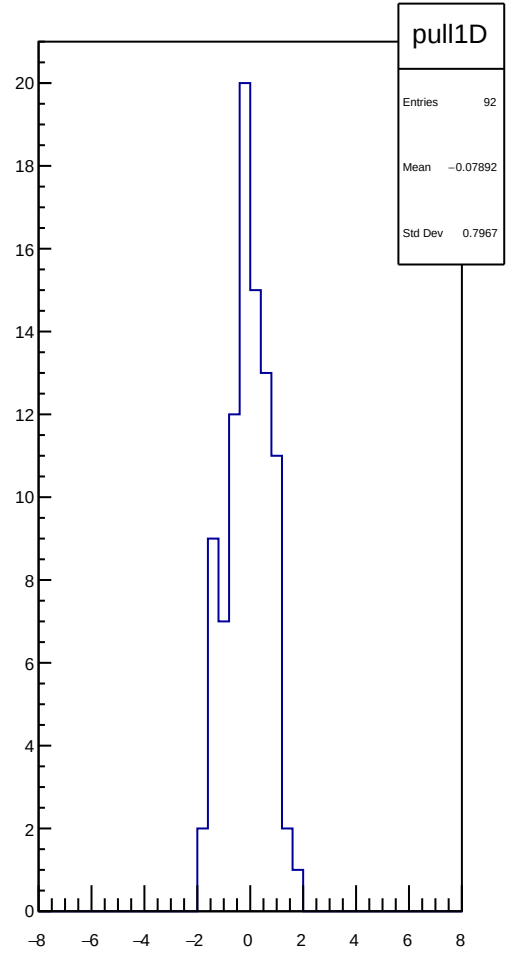

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 67.1 / 91
p0 0.06699 ± 0.02221
pull
Entries 92
Mean 356.4
Std Dev 0
pull1D
Entries 92
Mean −0.009406
Std Dev 0.8539

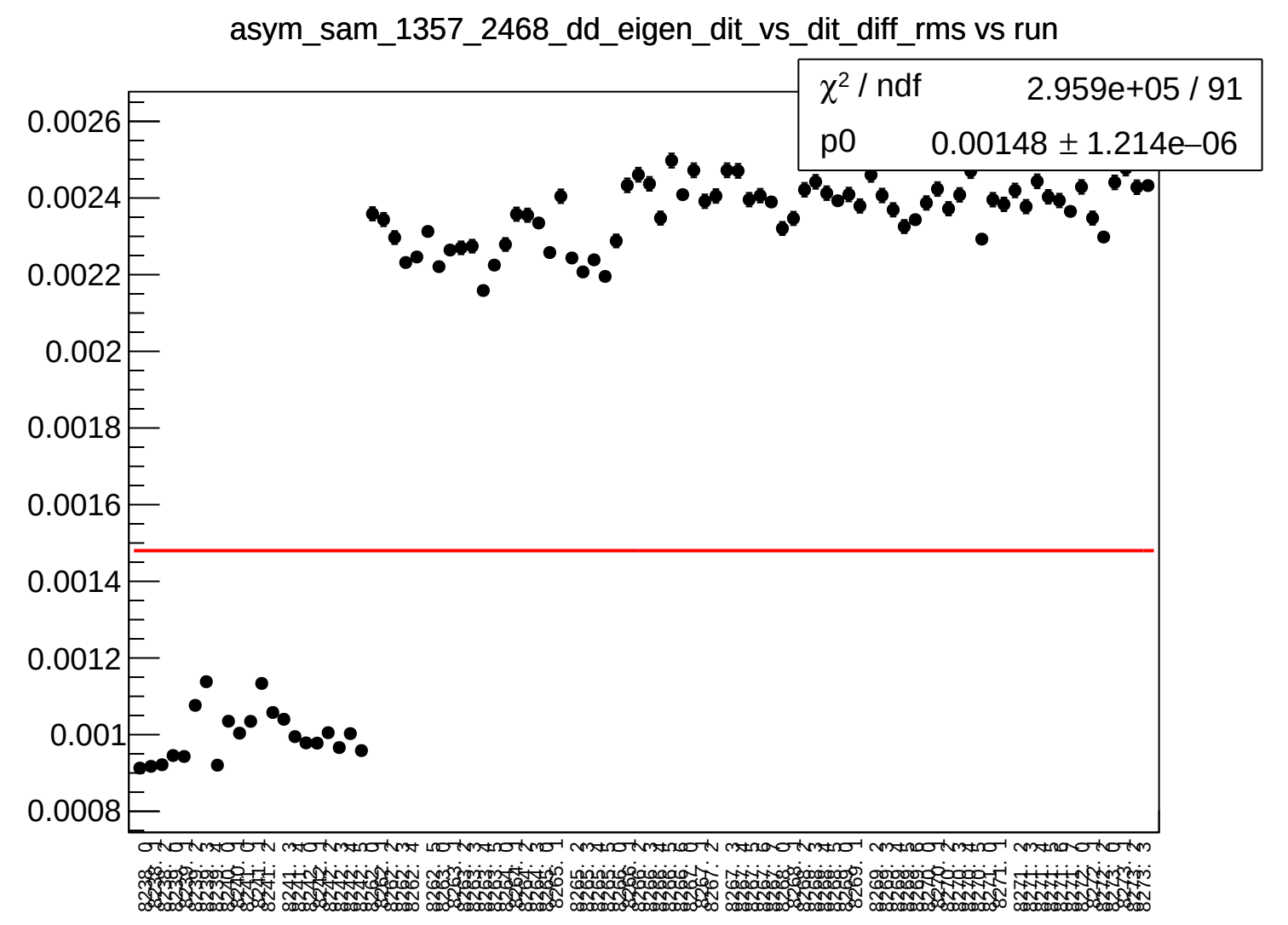

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.701e+05 / 91
p0 19.94 ± 0.0157
35
30
25
20
15
10

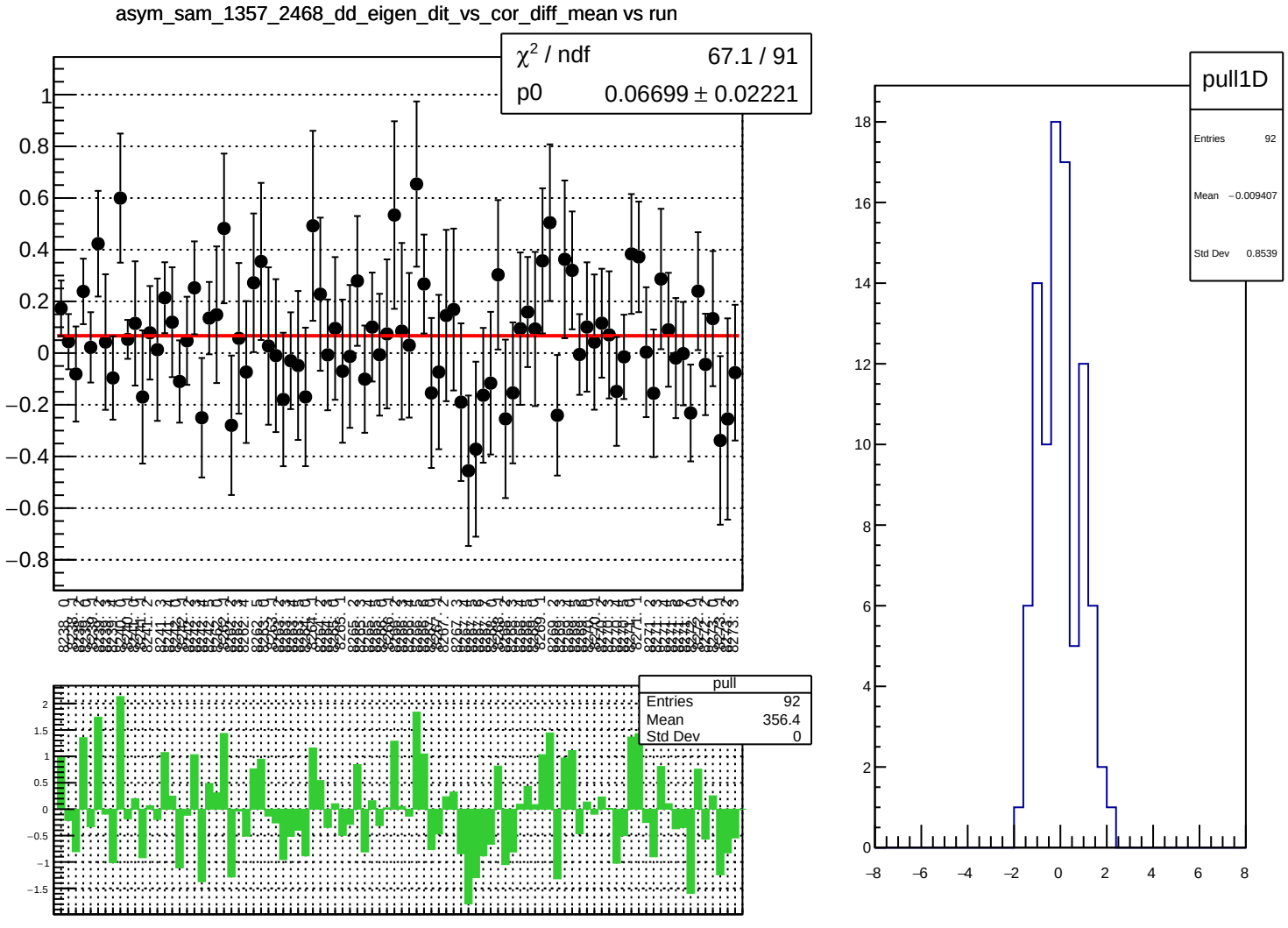

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.1 / 91
p0 0.06699 ± 0.02221
pull
Entries 92
Mean 356.4
Std Dev 0
pull1D
Entries 92
Mean −0.009406
Std Dev 0.8539

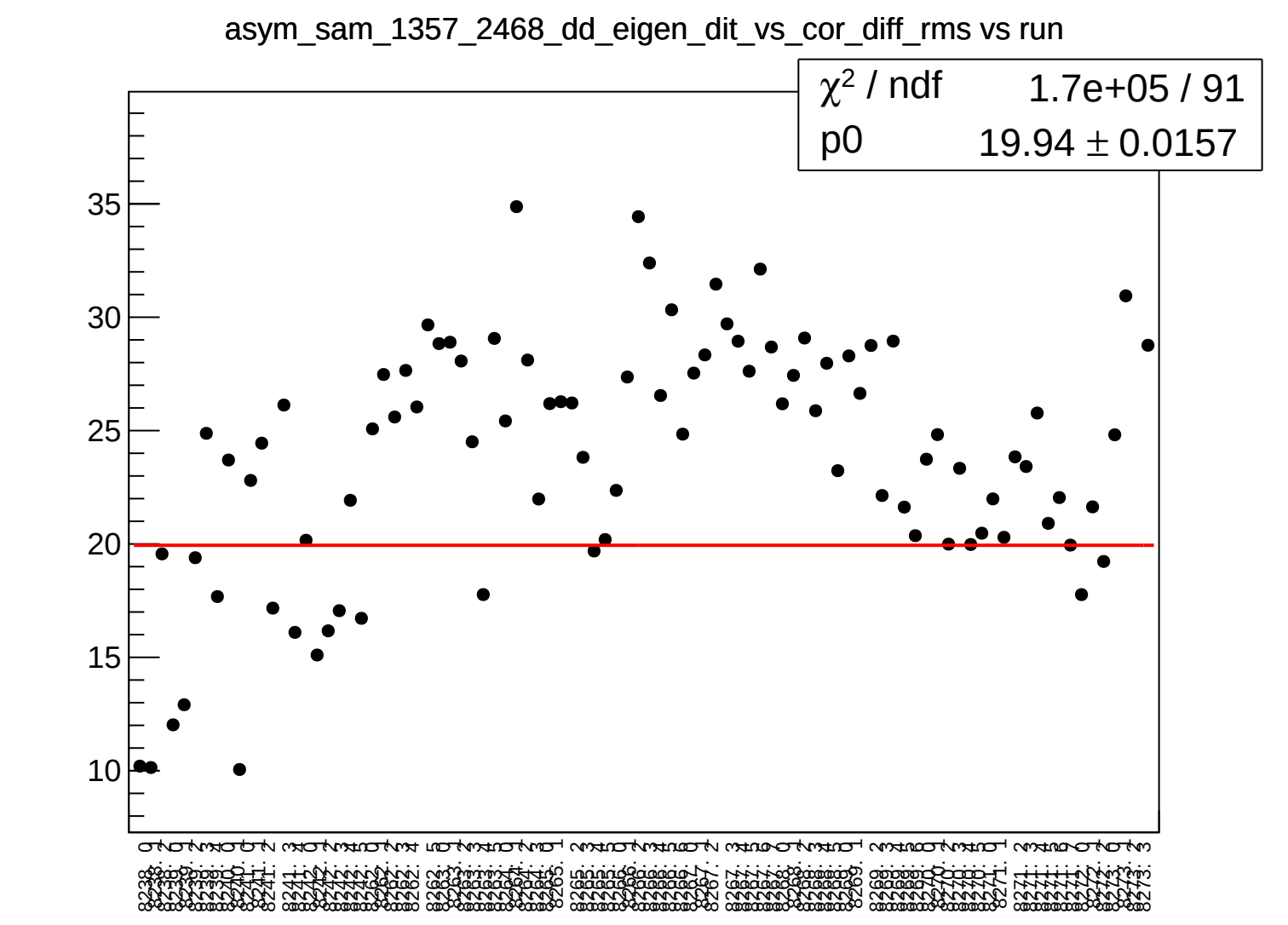

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.701e+05 / 91
p0 19.94 ± 0.0157
35
30
25
20
15
10

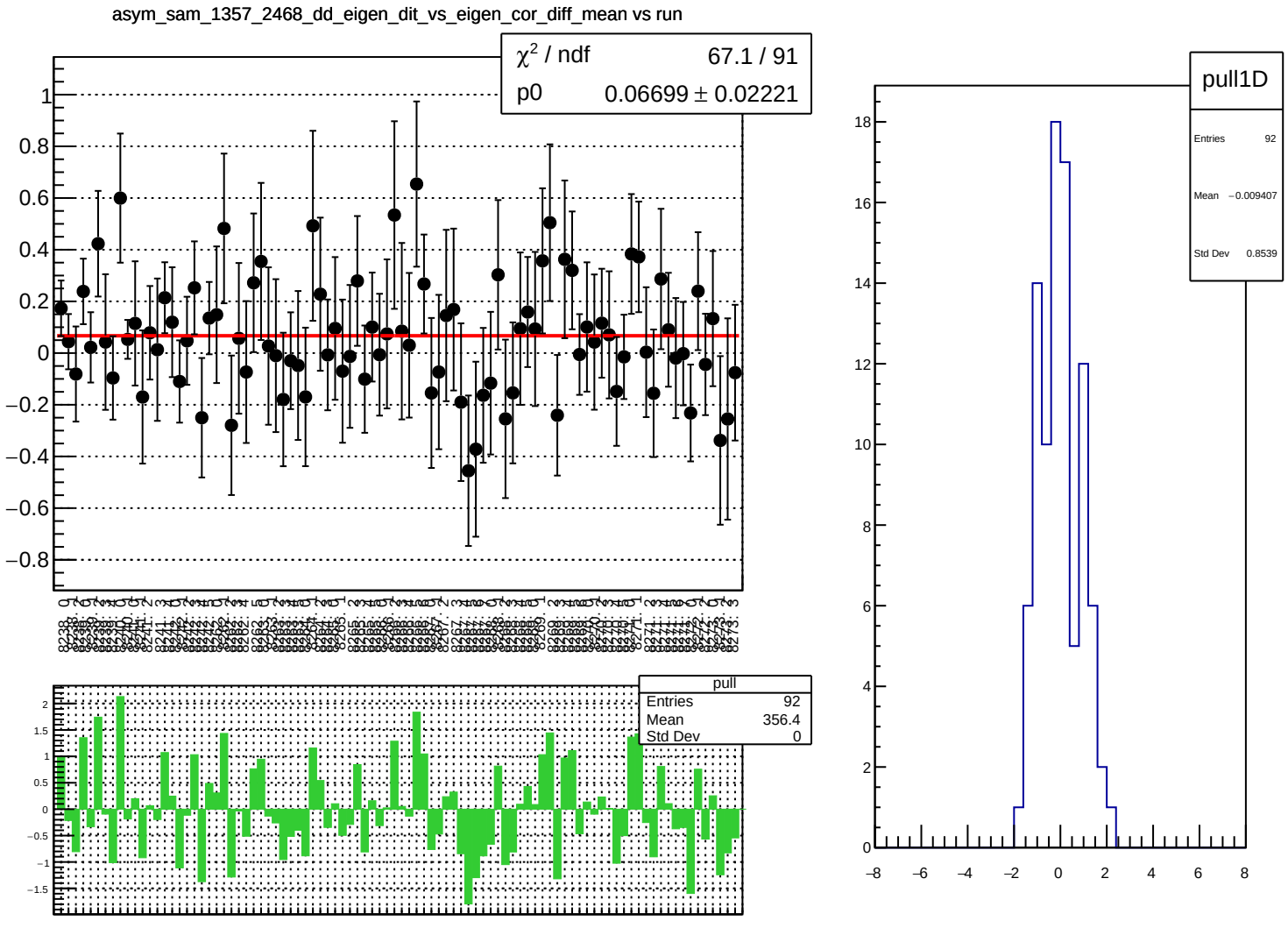

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 58.96 / 91
p0 −1.085e−06 ± 1.716e−06
pull
Entries 92
Mean 67.96
Std Dev 0

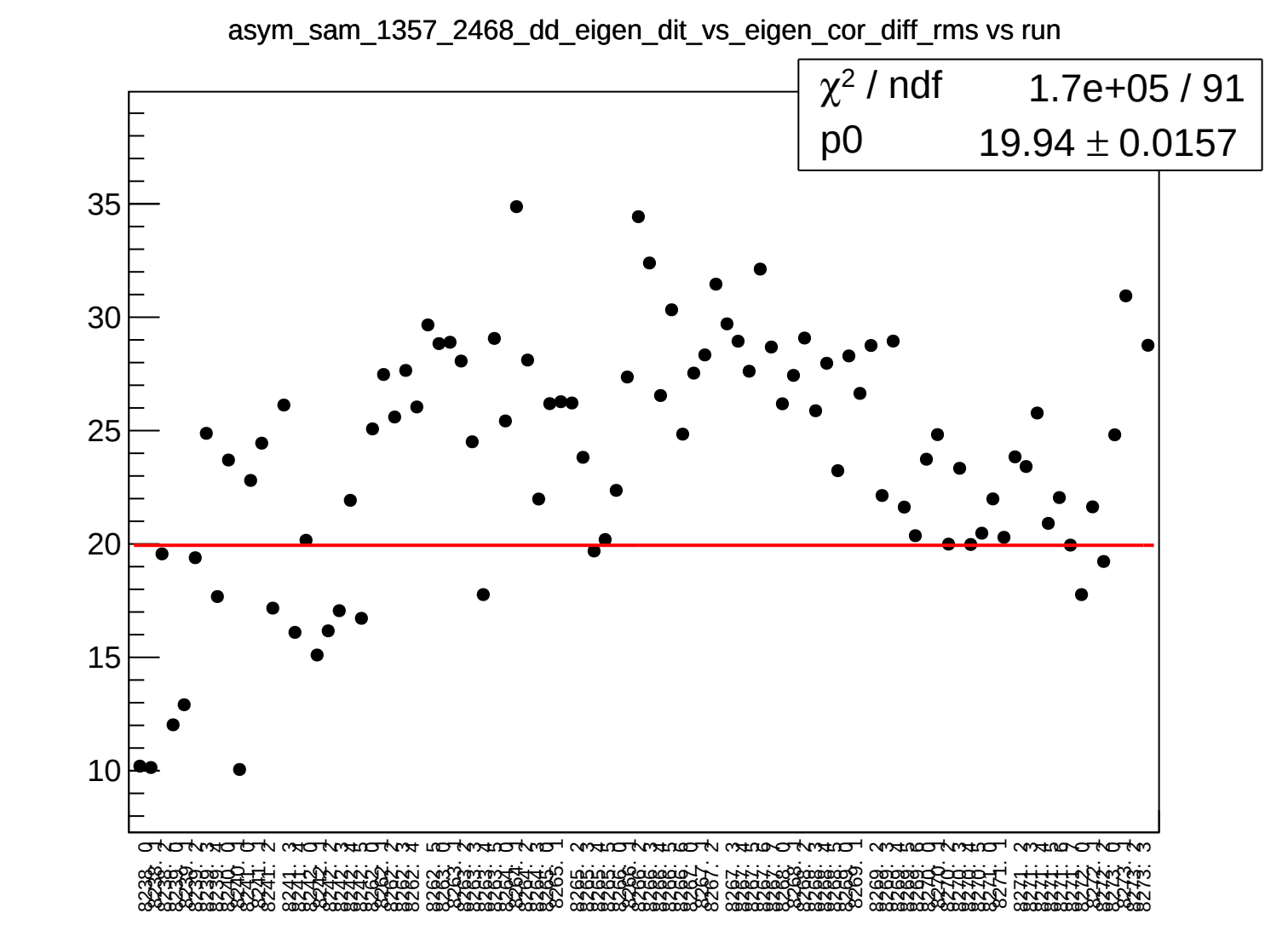

pull1D
Entries 92
Mean −0.07892
Std Dev 0.7967

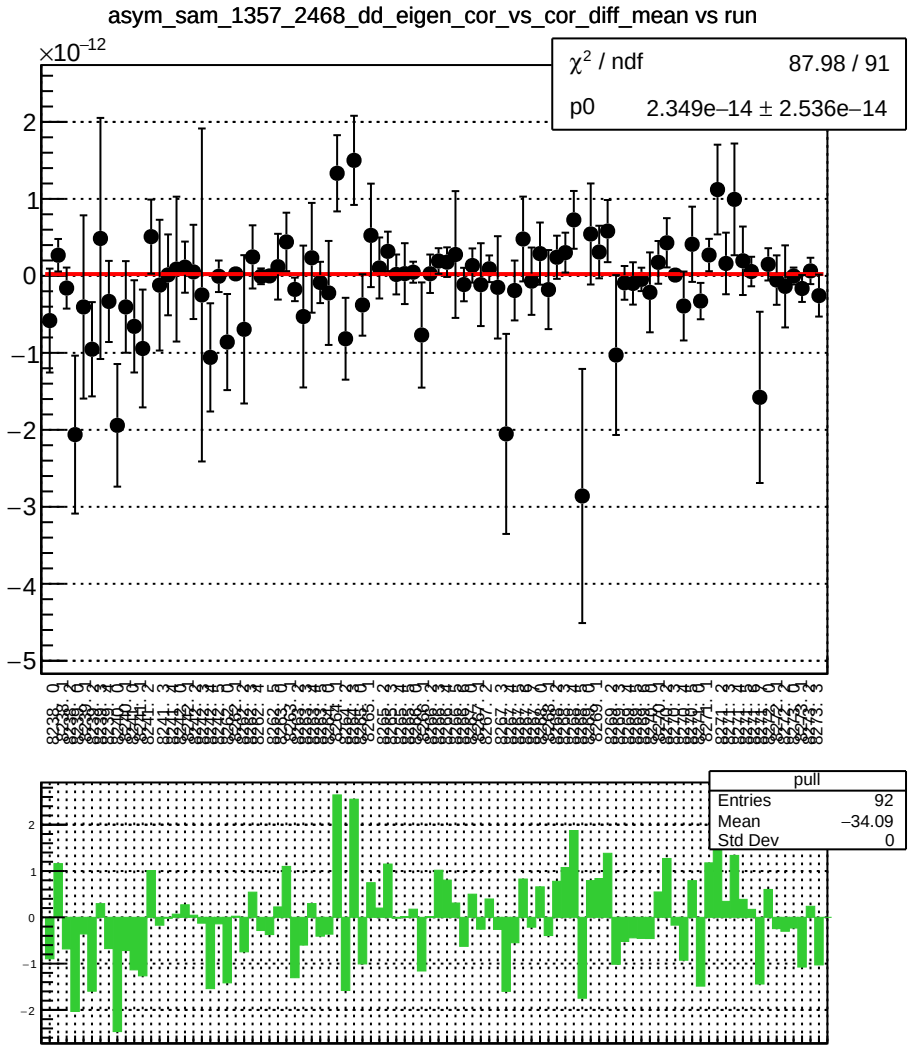

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.959e+05 / 91
p0 0.00148 ± 1.214e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

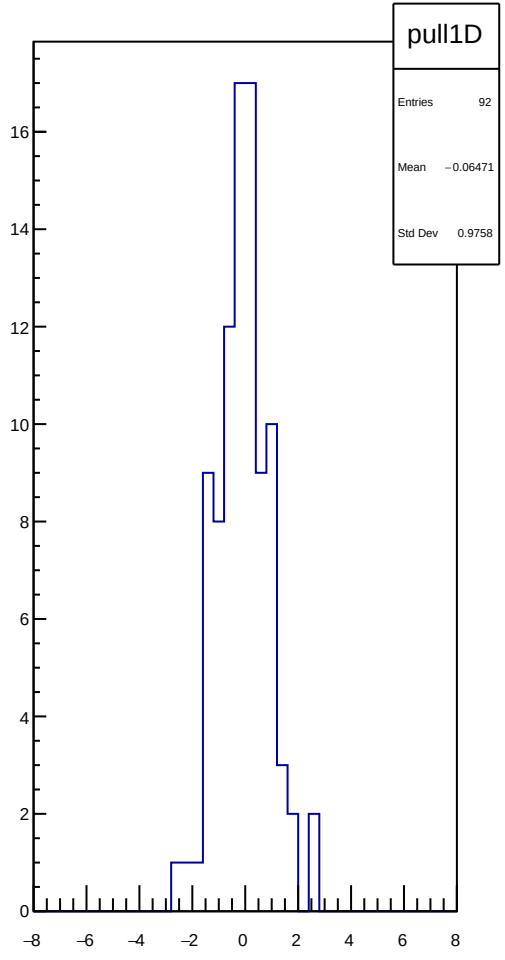

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.1 / 91
p0 0.06699 ± 0.02221
pull
Entries 92
Mean 356.4
Std Dev 0
pull1D
Entries 92
Mean −0.009407
Std Dev 0.8539

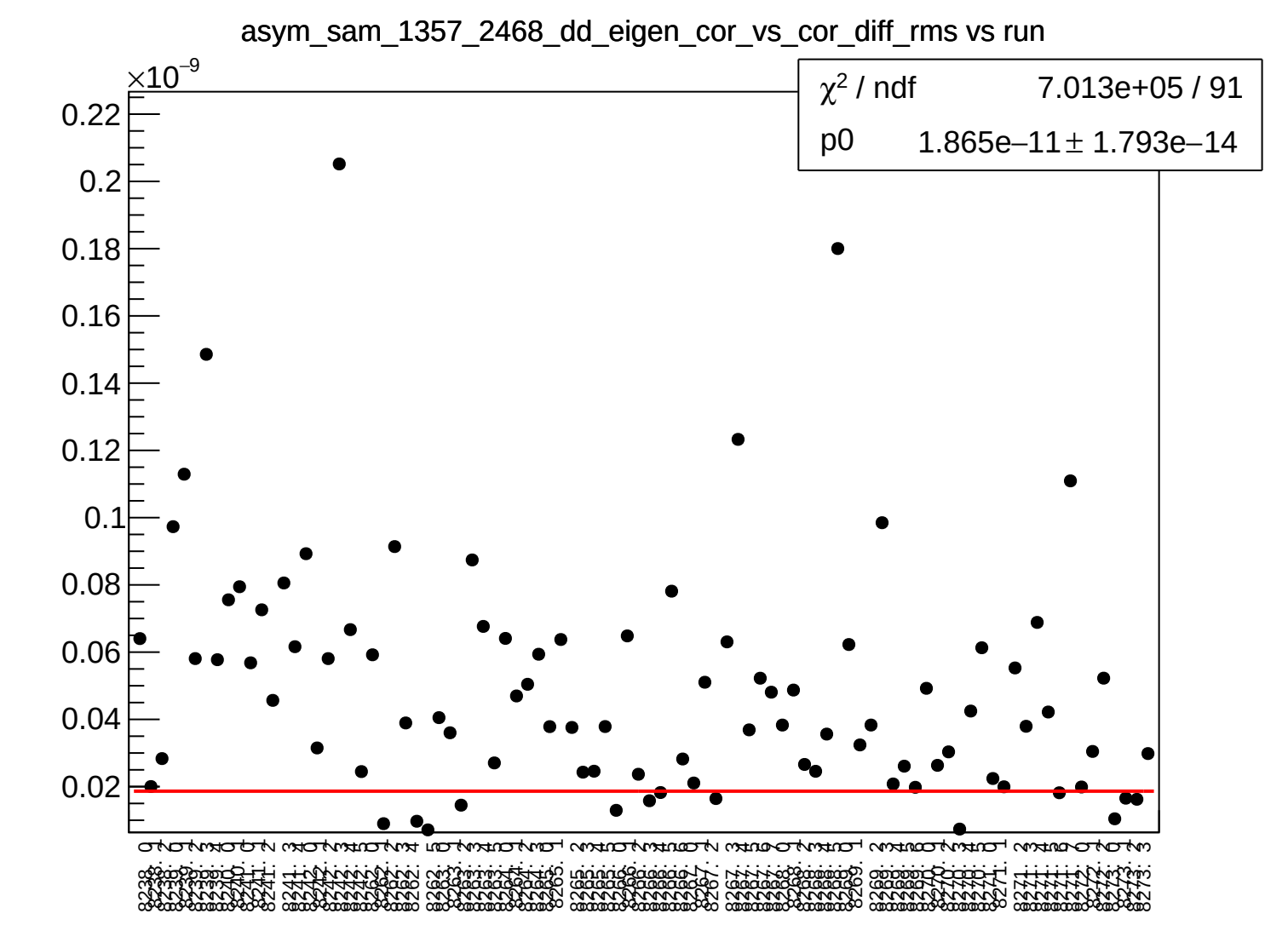

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.7e+05 / 91
p0 19.94 ± 0.0157
35
30
25
20
15
10

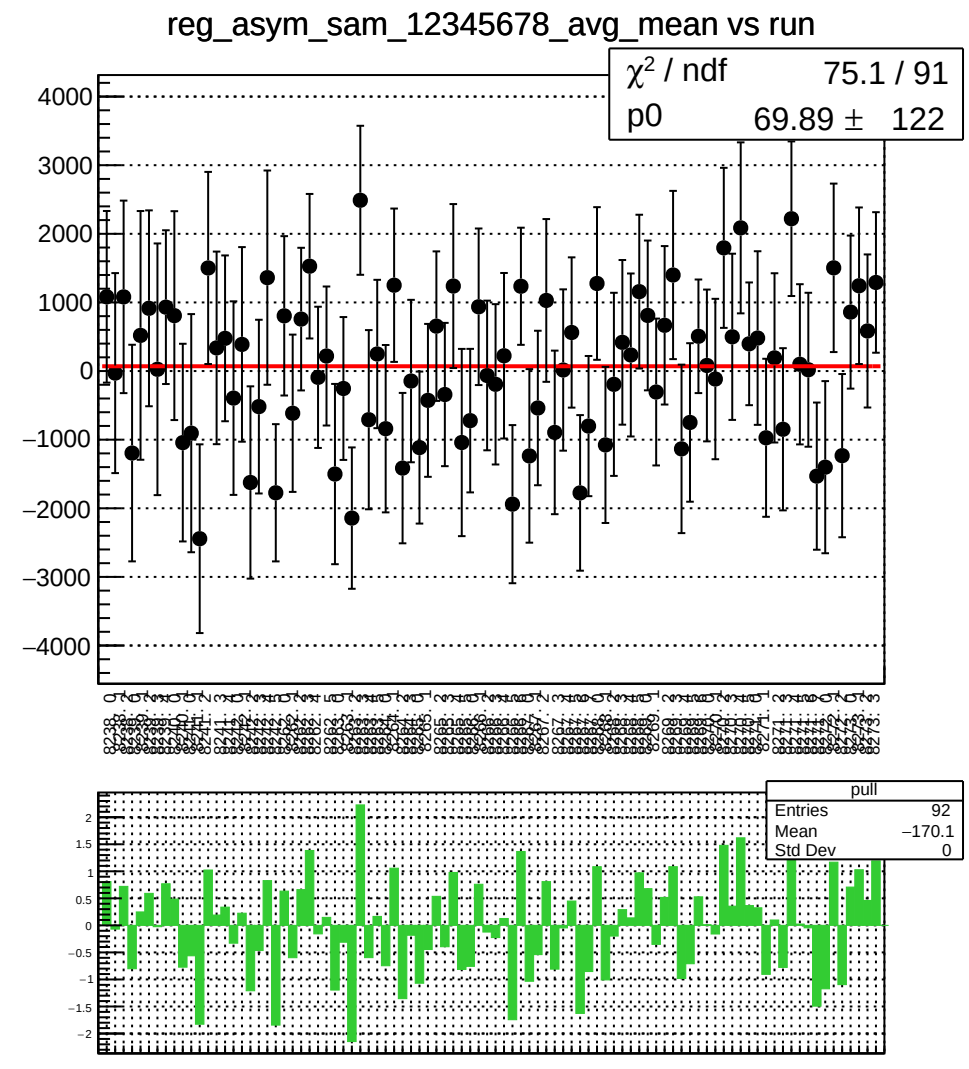

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.1 / 91
p0 0.06699 ± 0.02221
pull
Entries 92
Mean 356.4
Std Dev 0
pull1D
Entries 92
Mean −0.009407
Std Dev 0.8539

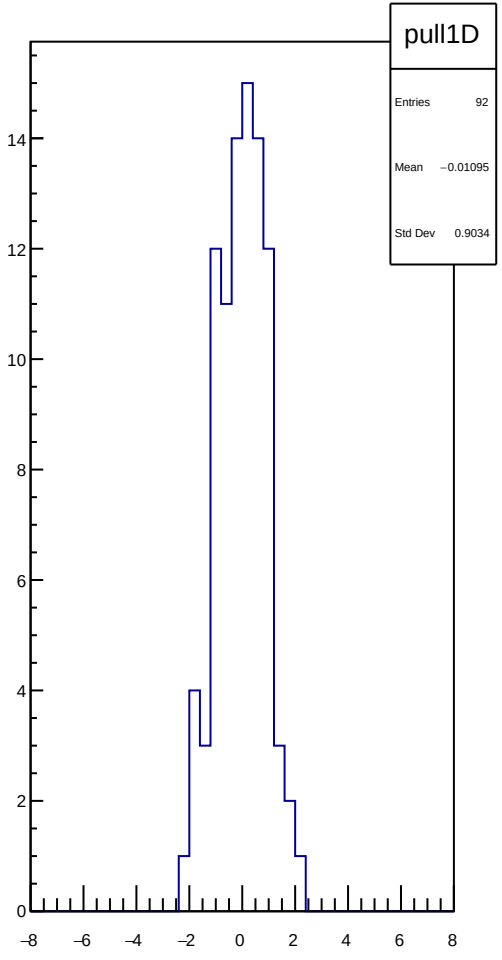

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.7e+05 / 91
p0 19.94 ± 0.0157
35
30
25
20
15
10

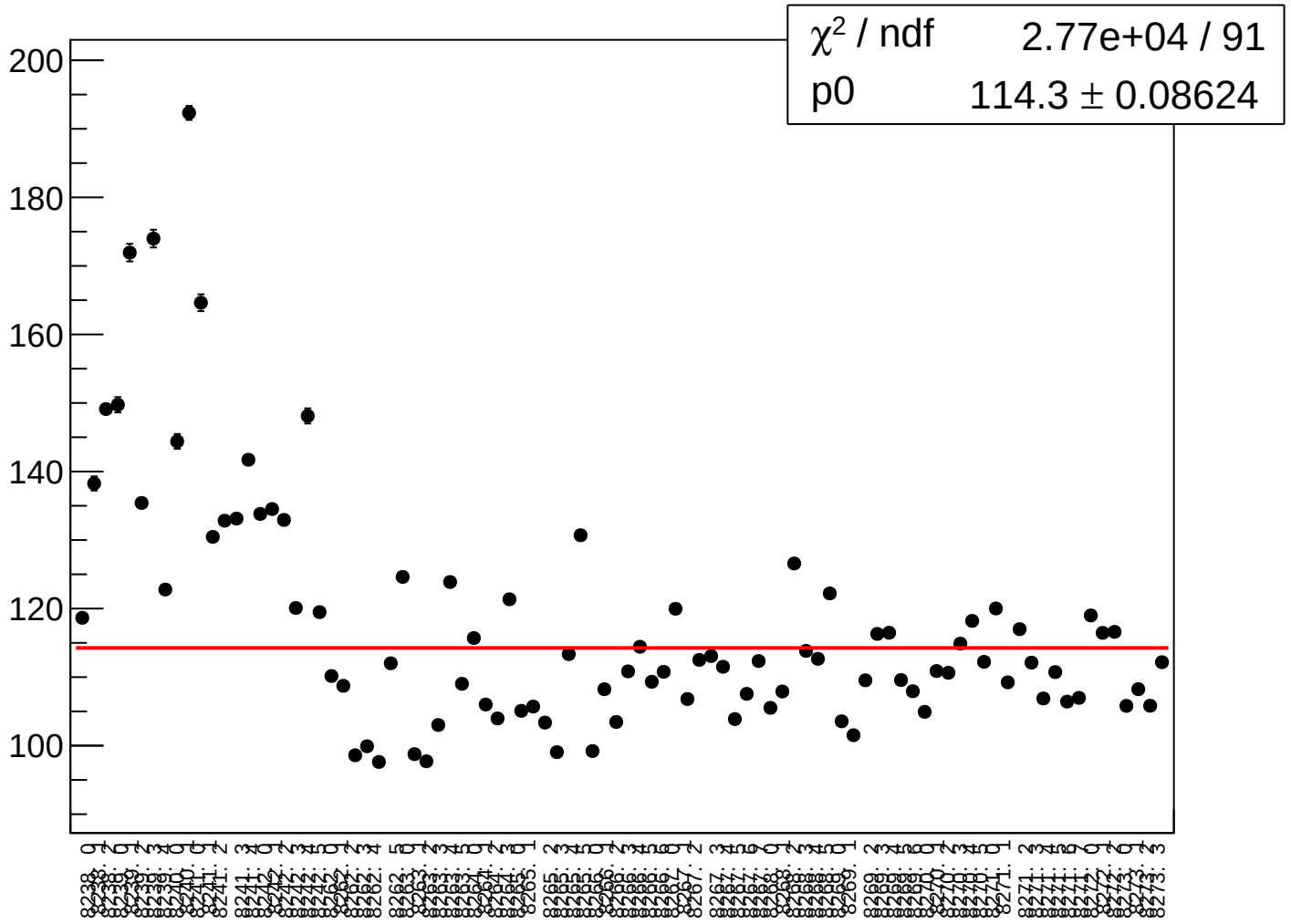

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.98 / 91
p0 2.349e−14 ± 2.536e−14
pull
Entries 92
Mean −34.09
Std Dev 0

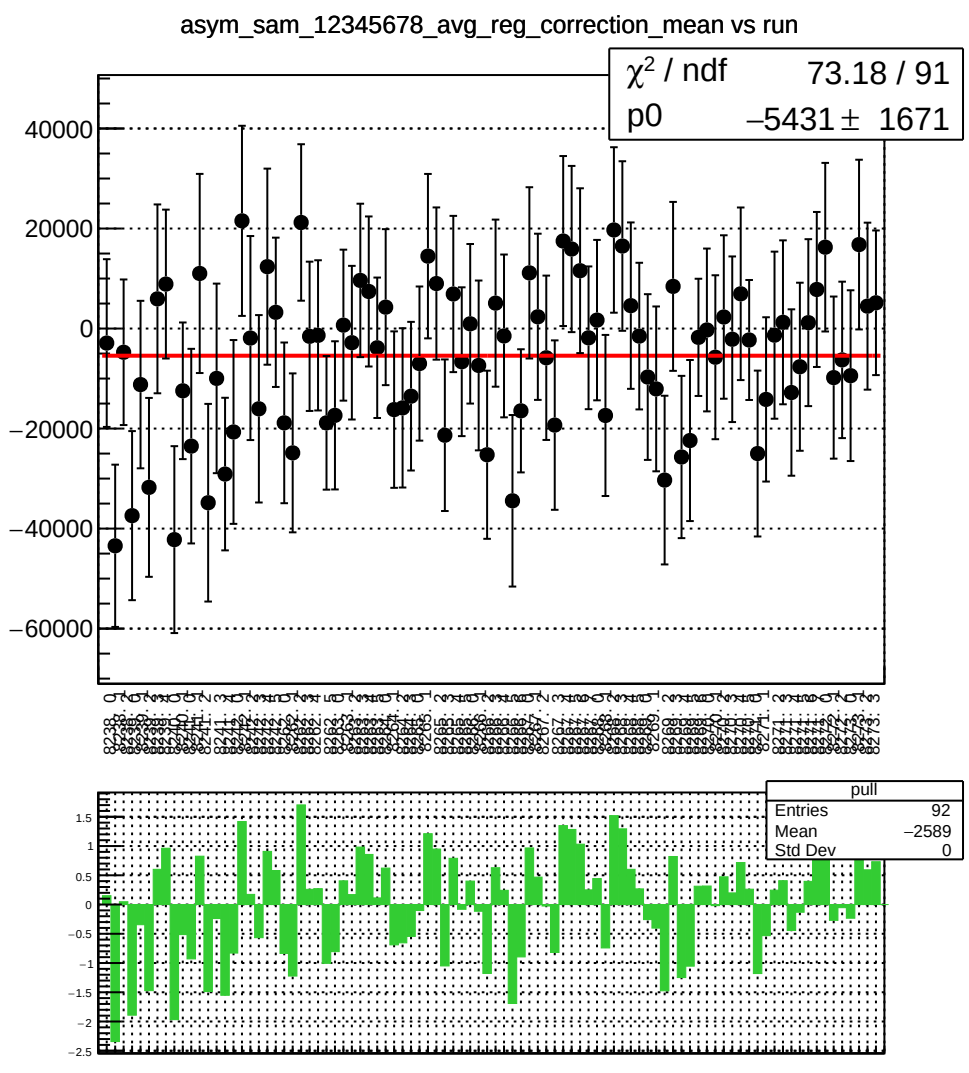

pull1D
Entries 92
Mean −0.06471
Std Dev 0.9758

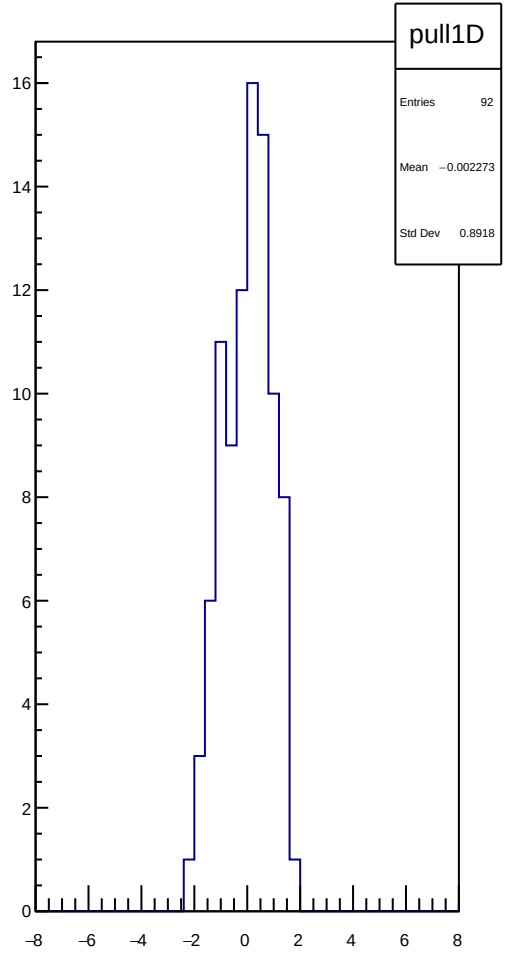

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.013e+05 / 91
p0 1.865e−11 ± 1.793e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

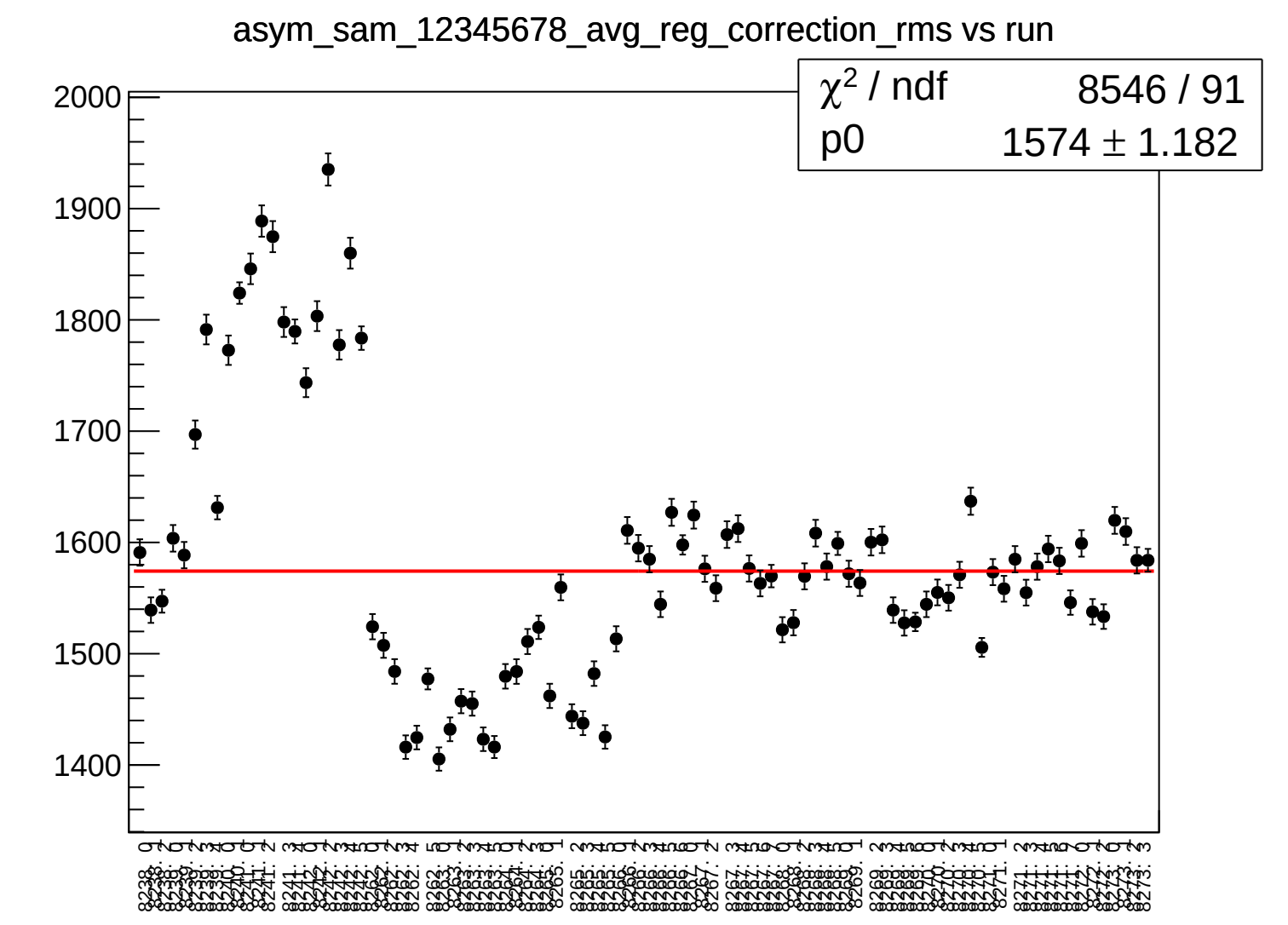

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 75.1 / 91
p0 69.89 ± 122
pull
Entries 92
Mean −170.1
Std Dev 0

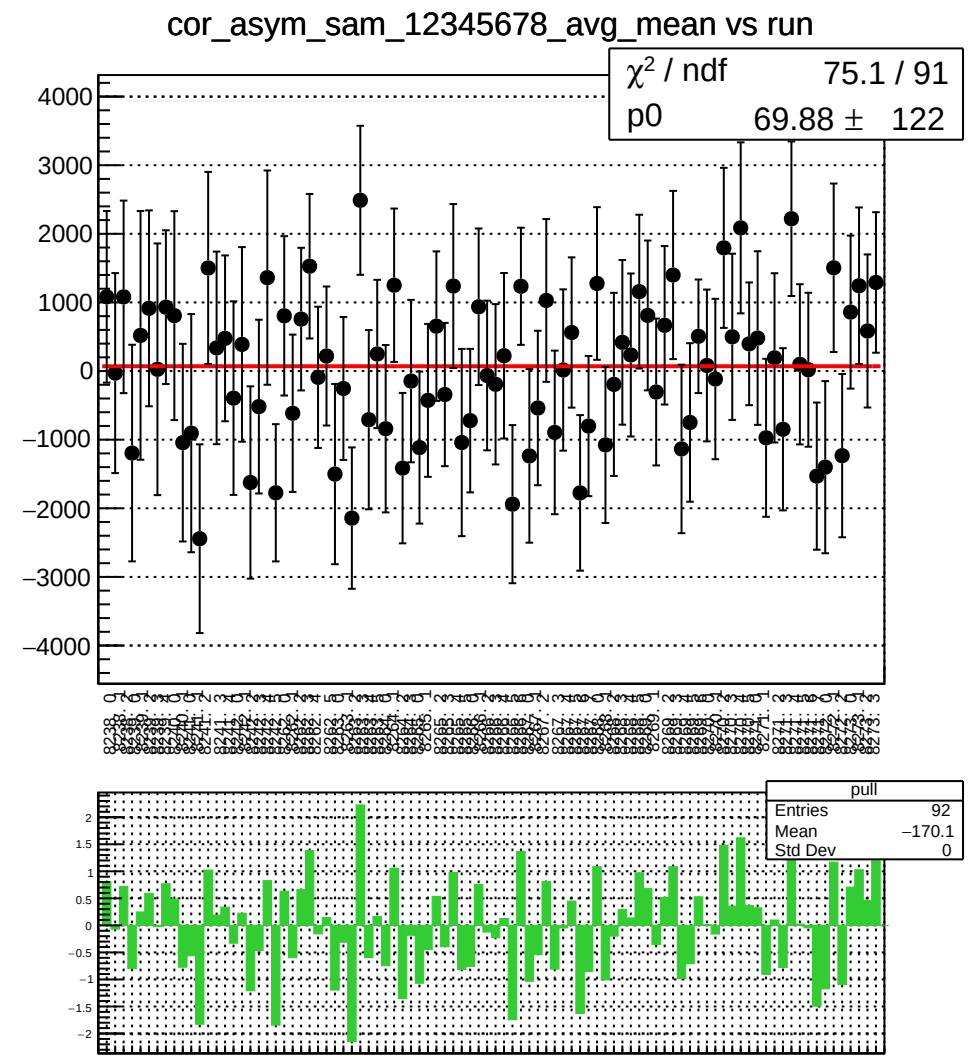

pull1D
Entries 92
Mean −0.01095
Std Dev 0.9034

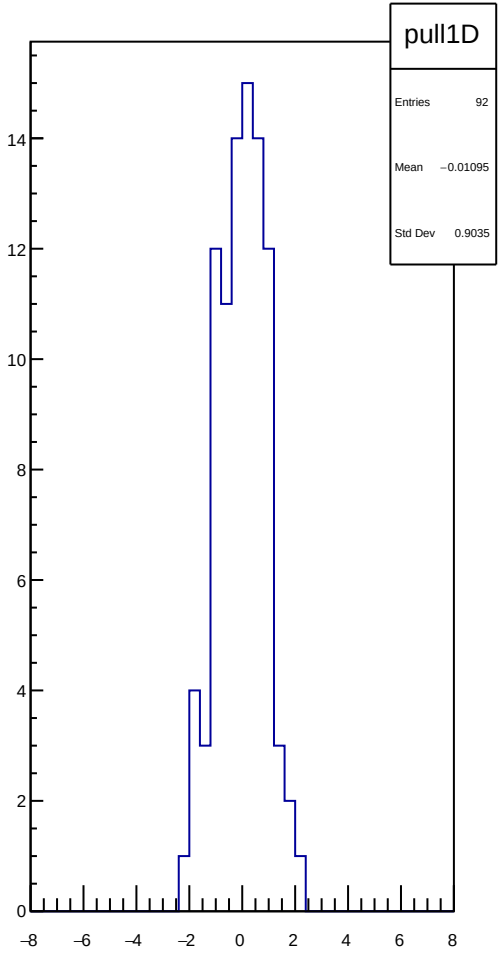

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.77e+04 / 91
p0 114.3 ± 0.08624
200
180
160
140
120
100

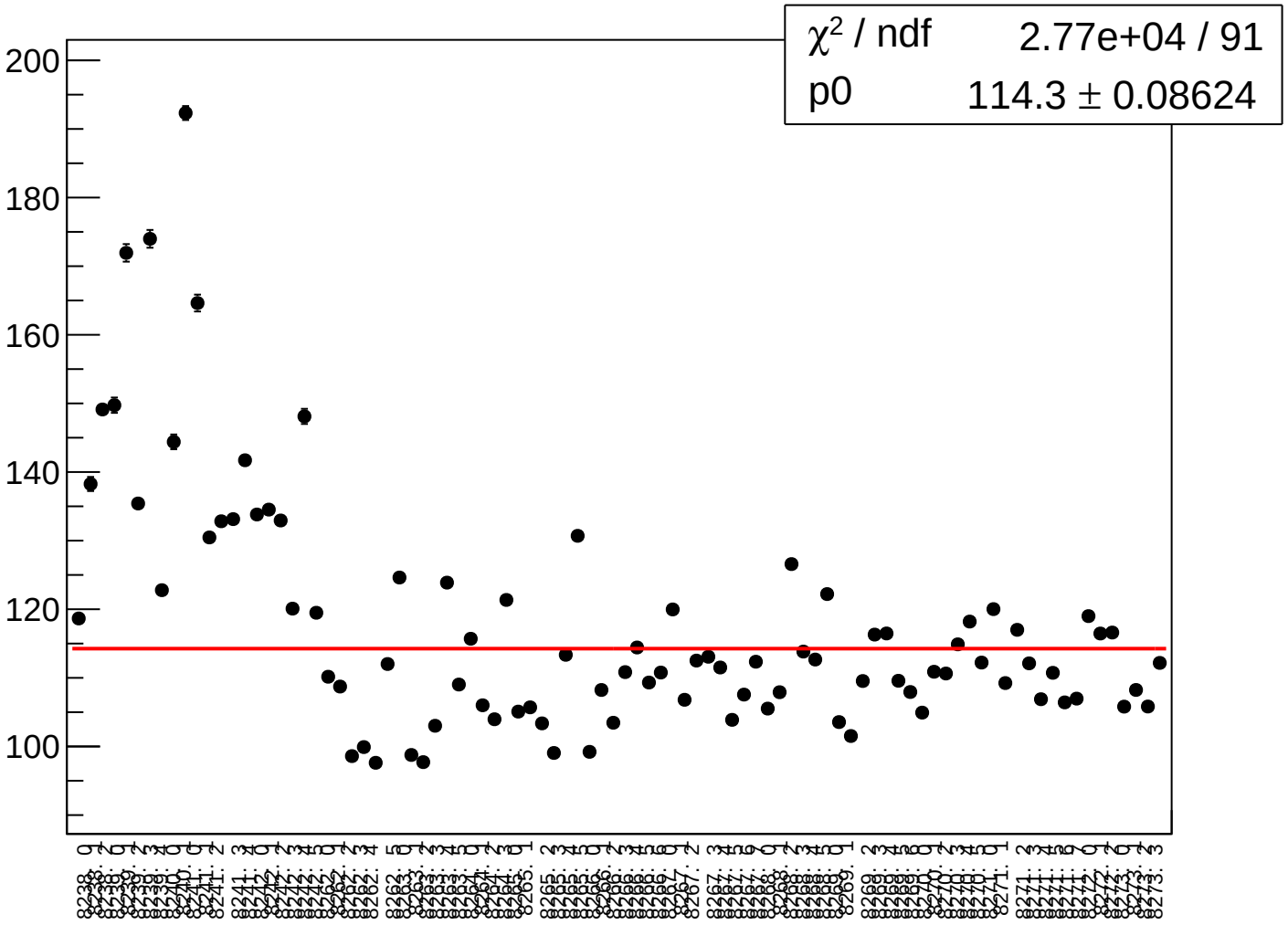

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 73.18 / 91
p0 −5431 ± 1671
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −2589
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

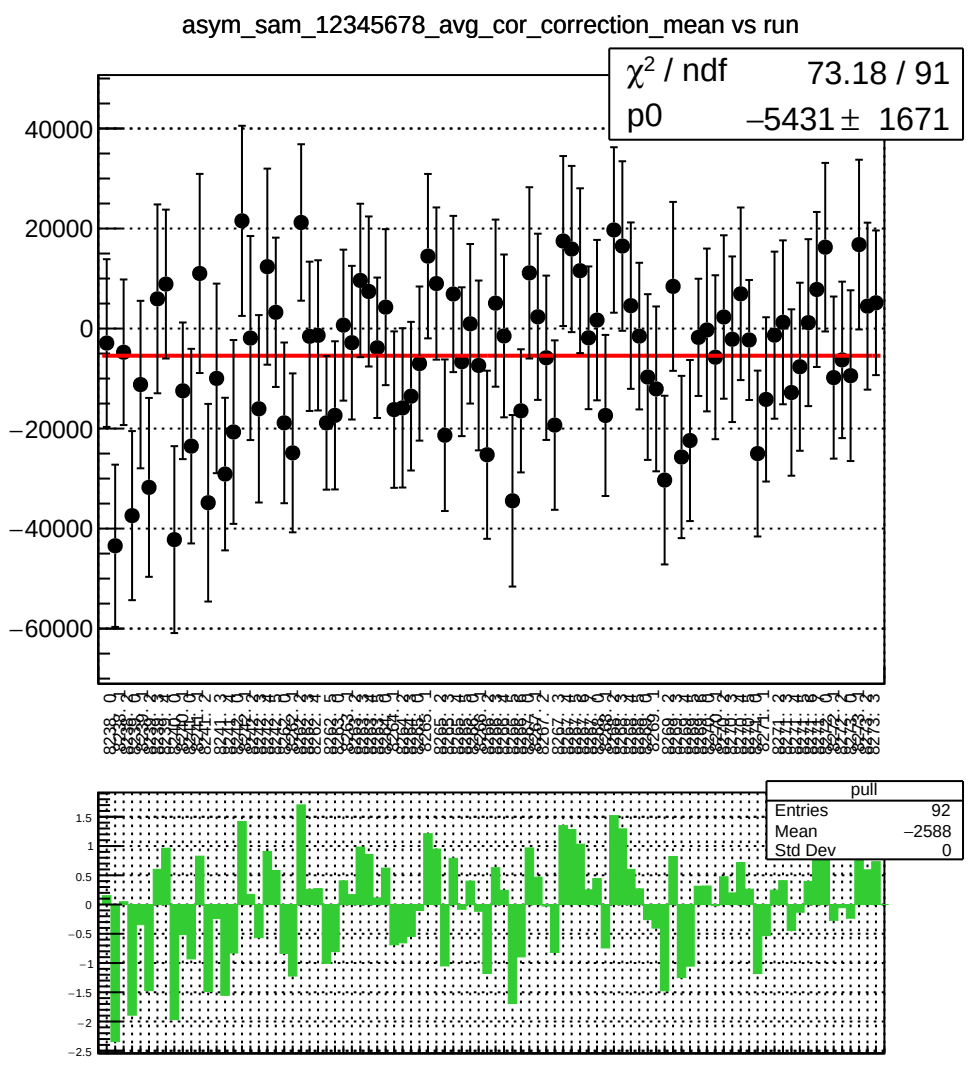

pull1D
Entries 92
Mean −0.002273
Std Dev 0.8918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

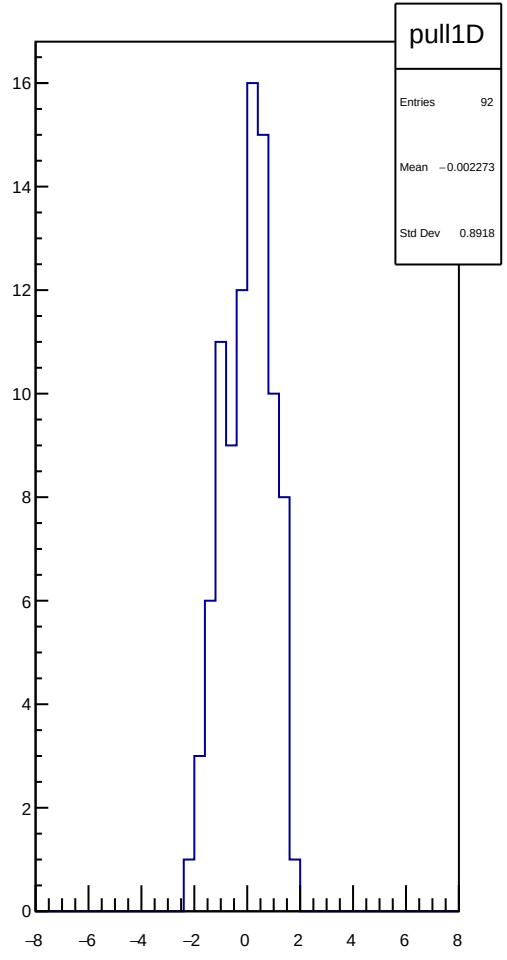

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 8546 / 91
p0 1574 ± 1.182
2000
1900
1800
1700
1600
1500
1400

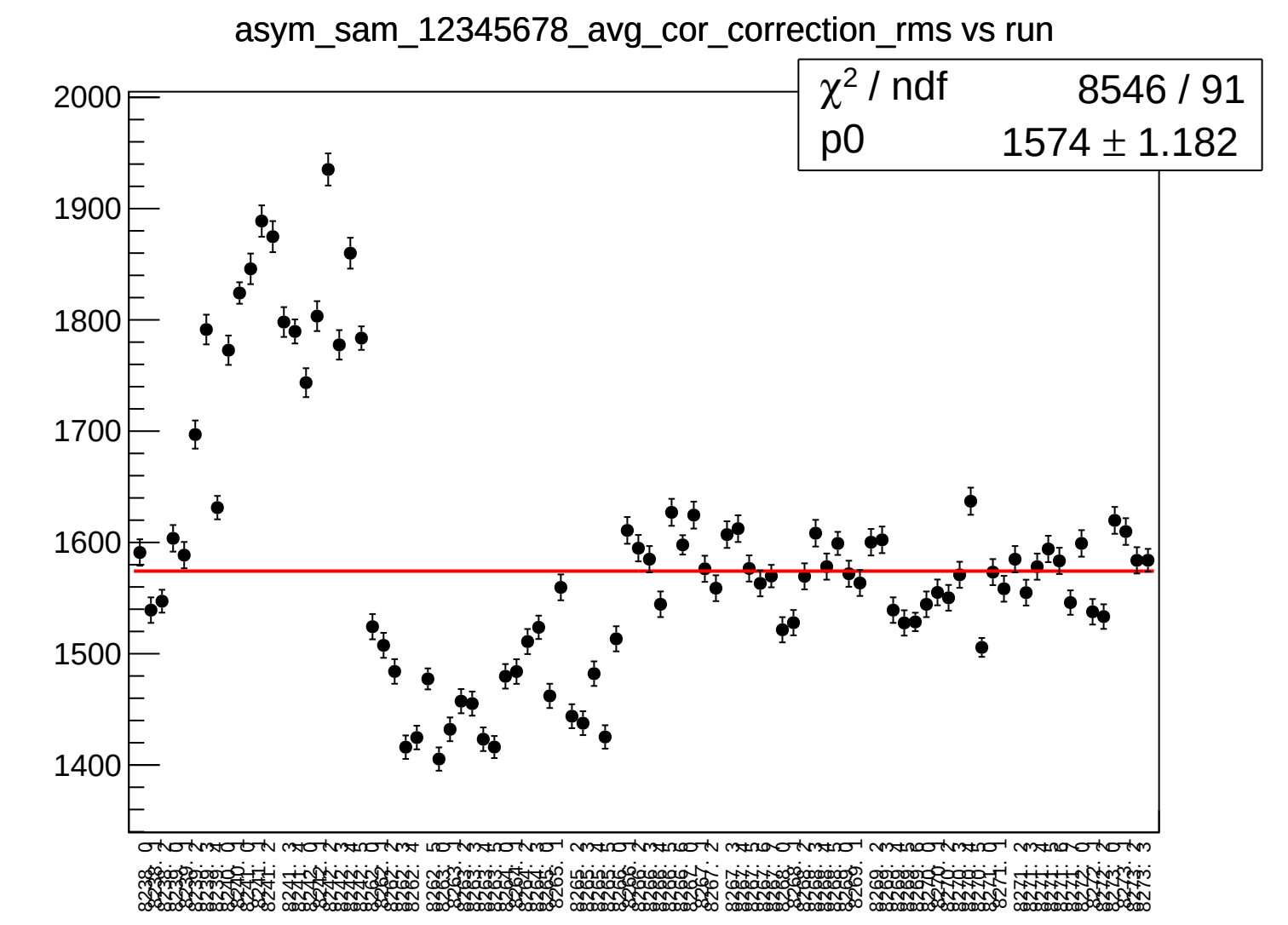

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 75.1 / 91
p0 69.88 ± 122
pull
Entries 92
Mean −170.1
Std Dev 0

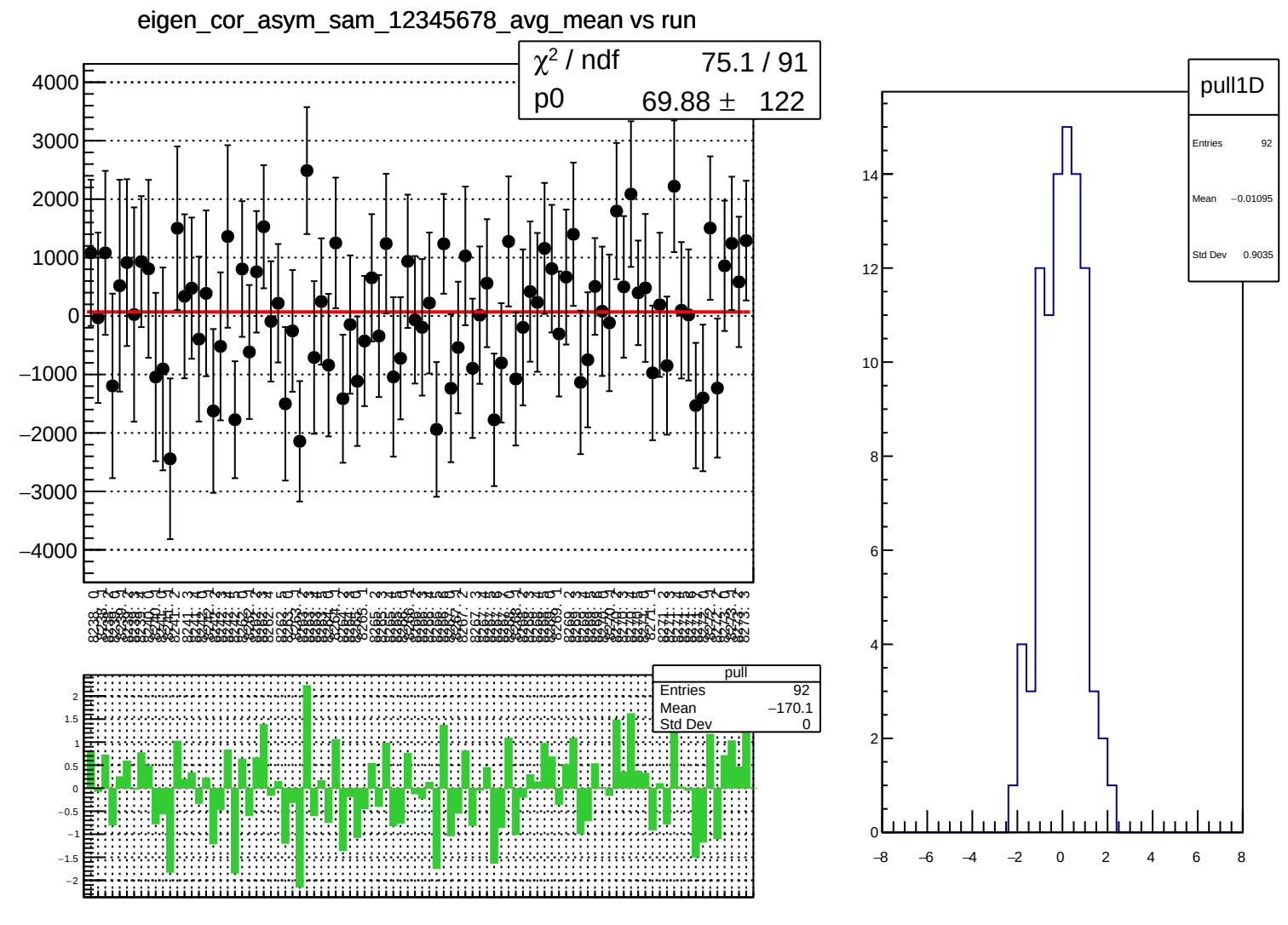

pull1D
Entries 92
Mean −0.01095
Std Dev 0.9035

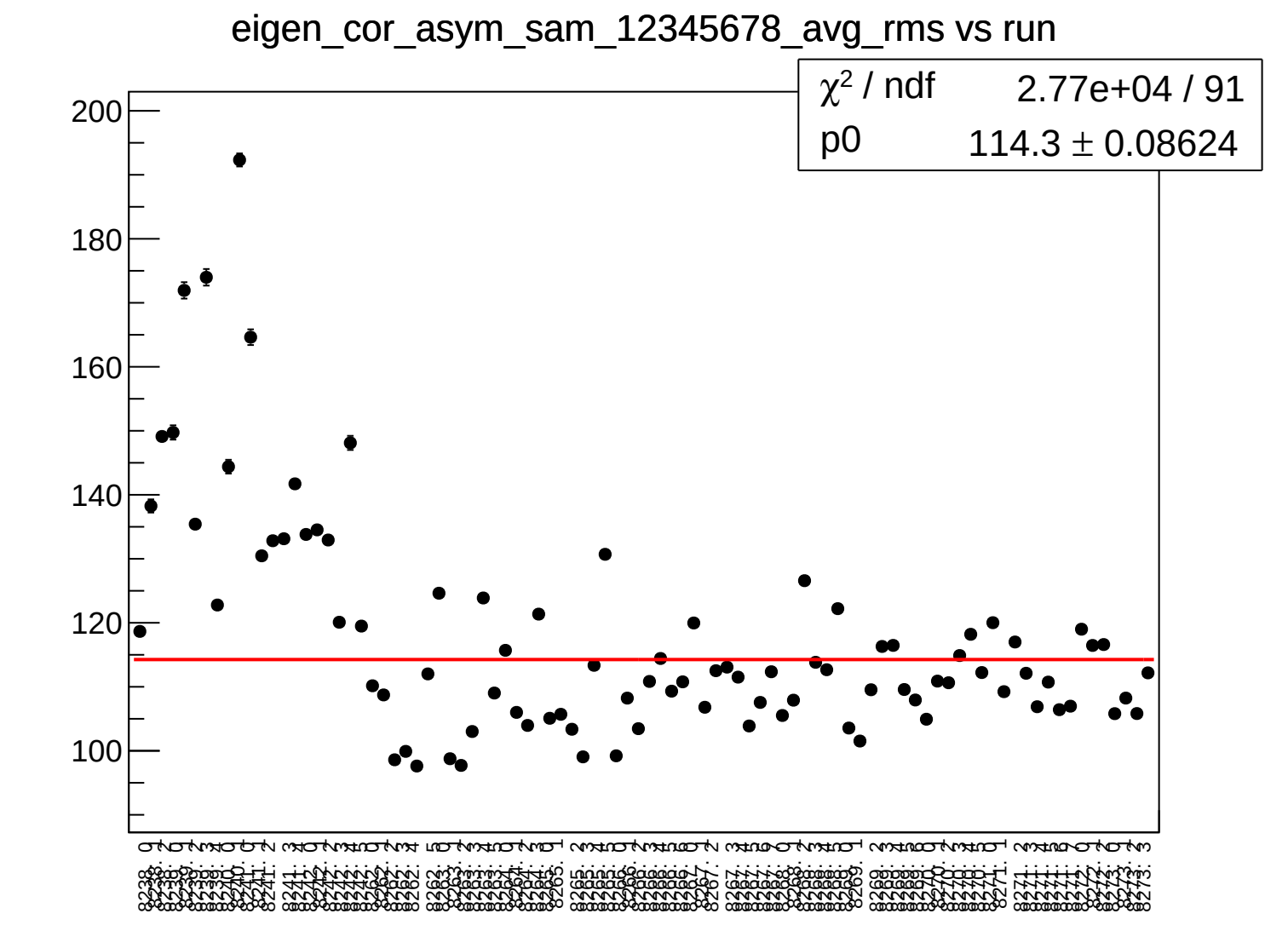

cor_asym_sam_12345678_avg_rms vs run
$\chi^2$ / ndf 2.77e+04 / 91
p0 114.3 ± 0.08624
200
180
160
140
120
100

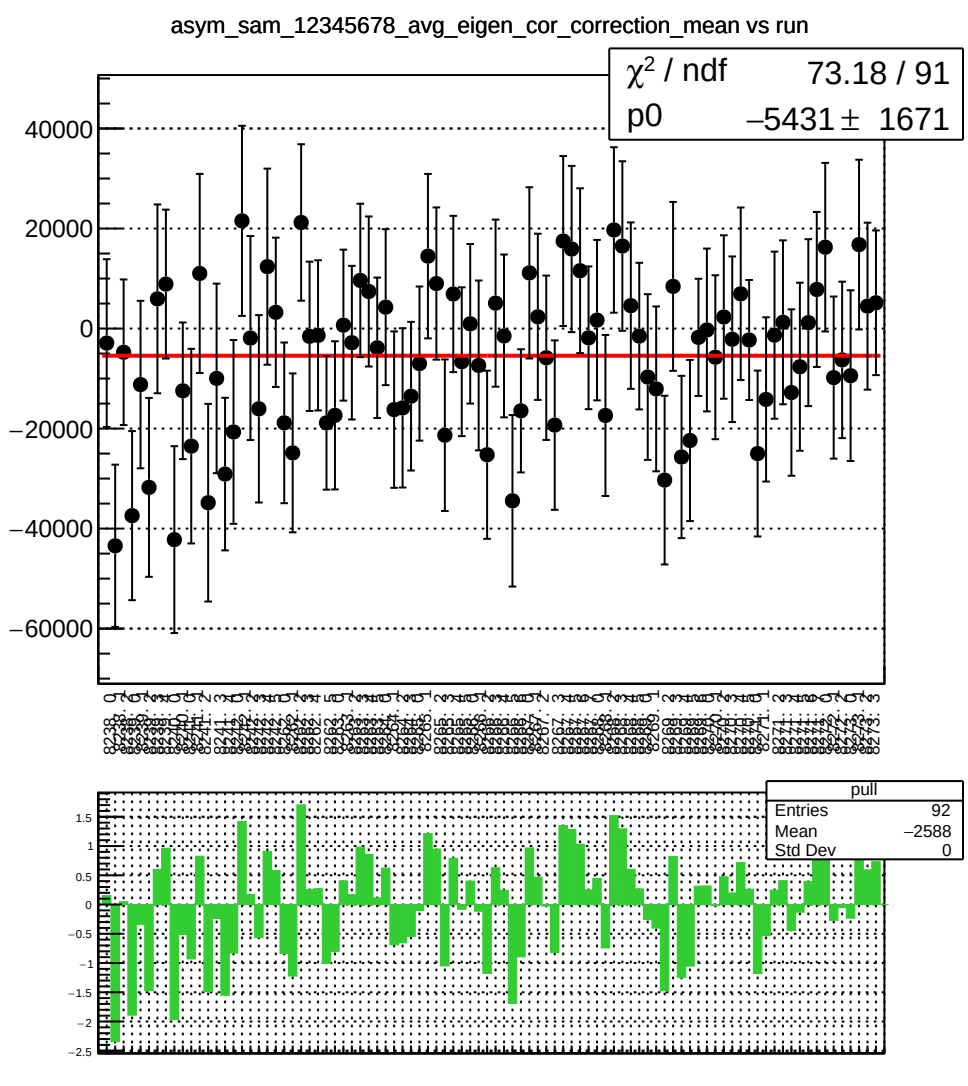

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 73.18 / 91
p0 −5431 ± 1671
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −2588
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

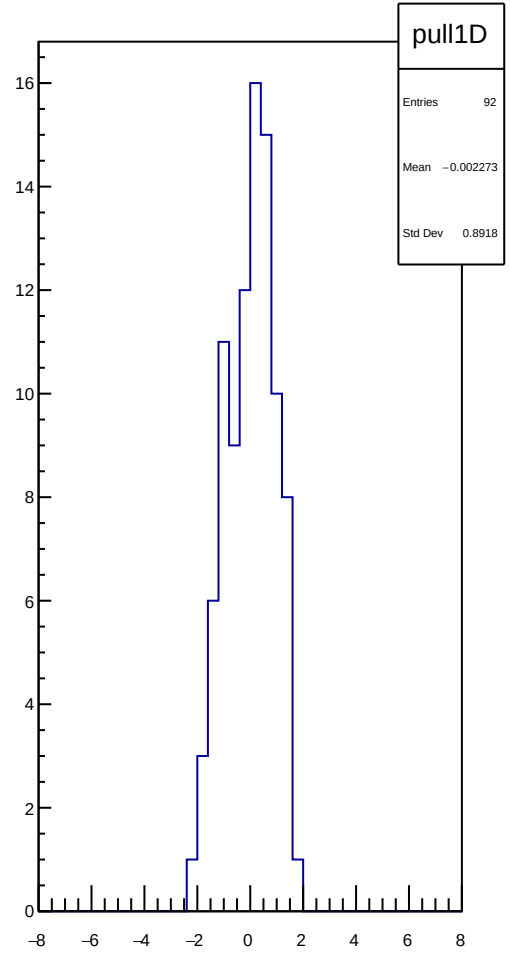

pull1D
Entries 92
Mean −0.002273
Std Dev 0.8918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

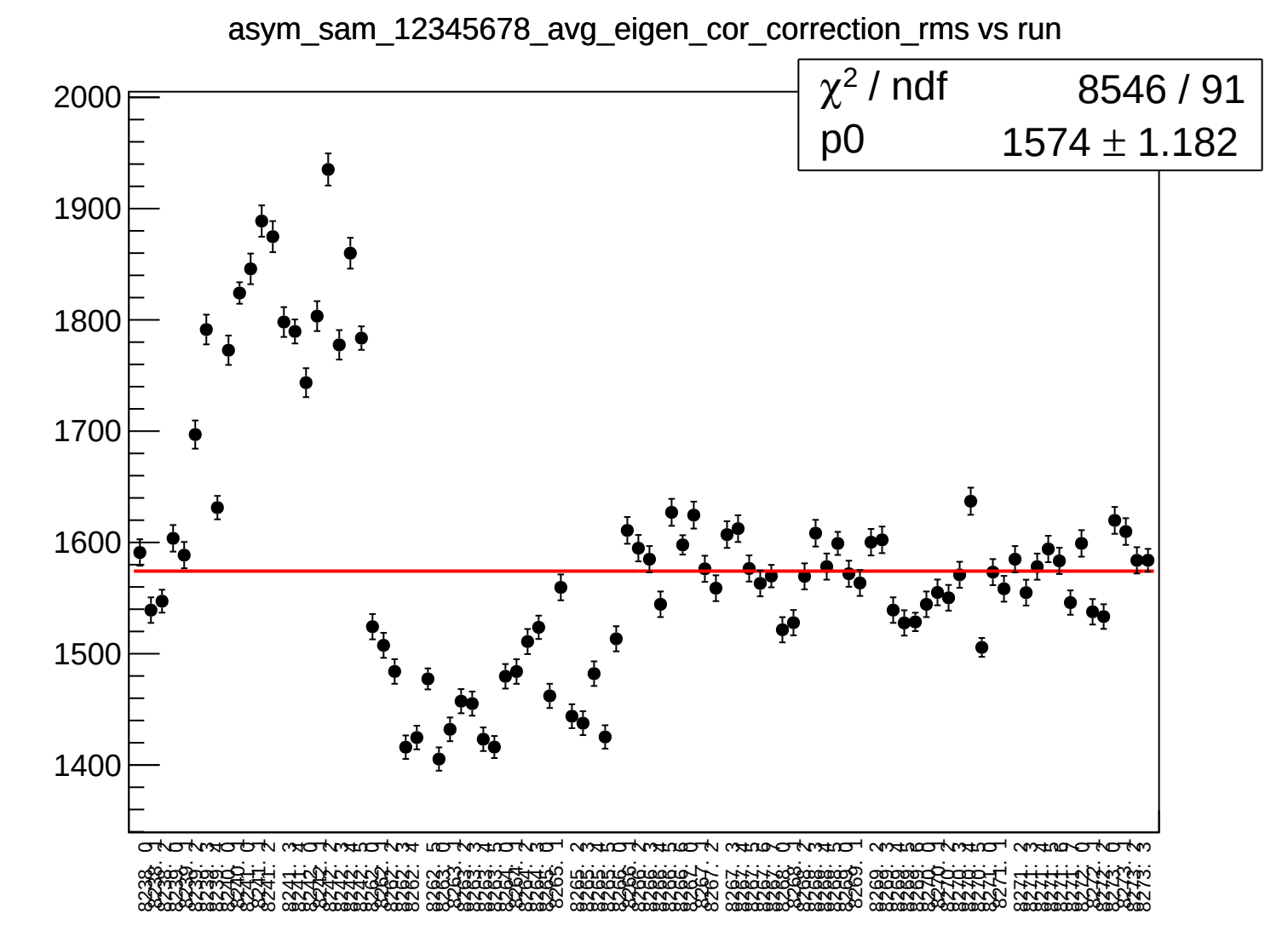

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 8546 / 91
p0 1574 ± 1.182
2000
1900
1800
1700
1600
1500
1400

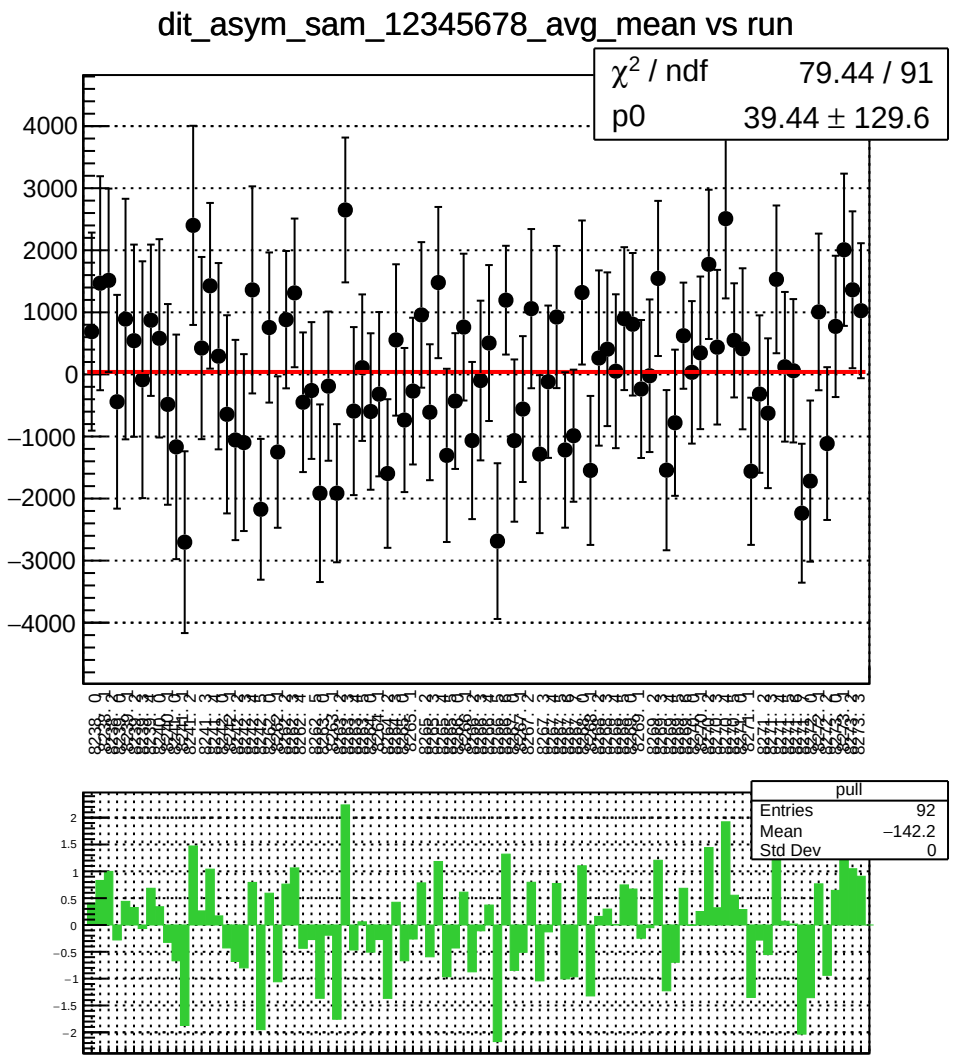

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 75.1 / 91
p0 69.88 ± 122
pull
Entries 92
Mean −170.1
Std Dev 0
pull1D
Entries 92
Mean −0.01095
Std Dev 0.9035

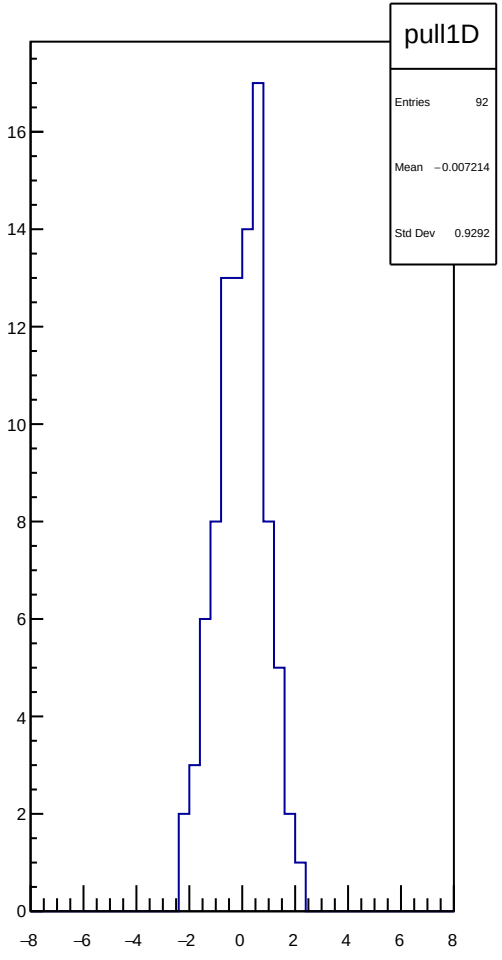

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.77e+04 / 91
p0 114.3 ± 0.08624
200
180
160
140
120
100

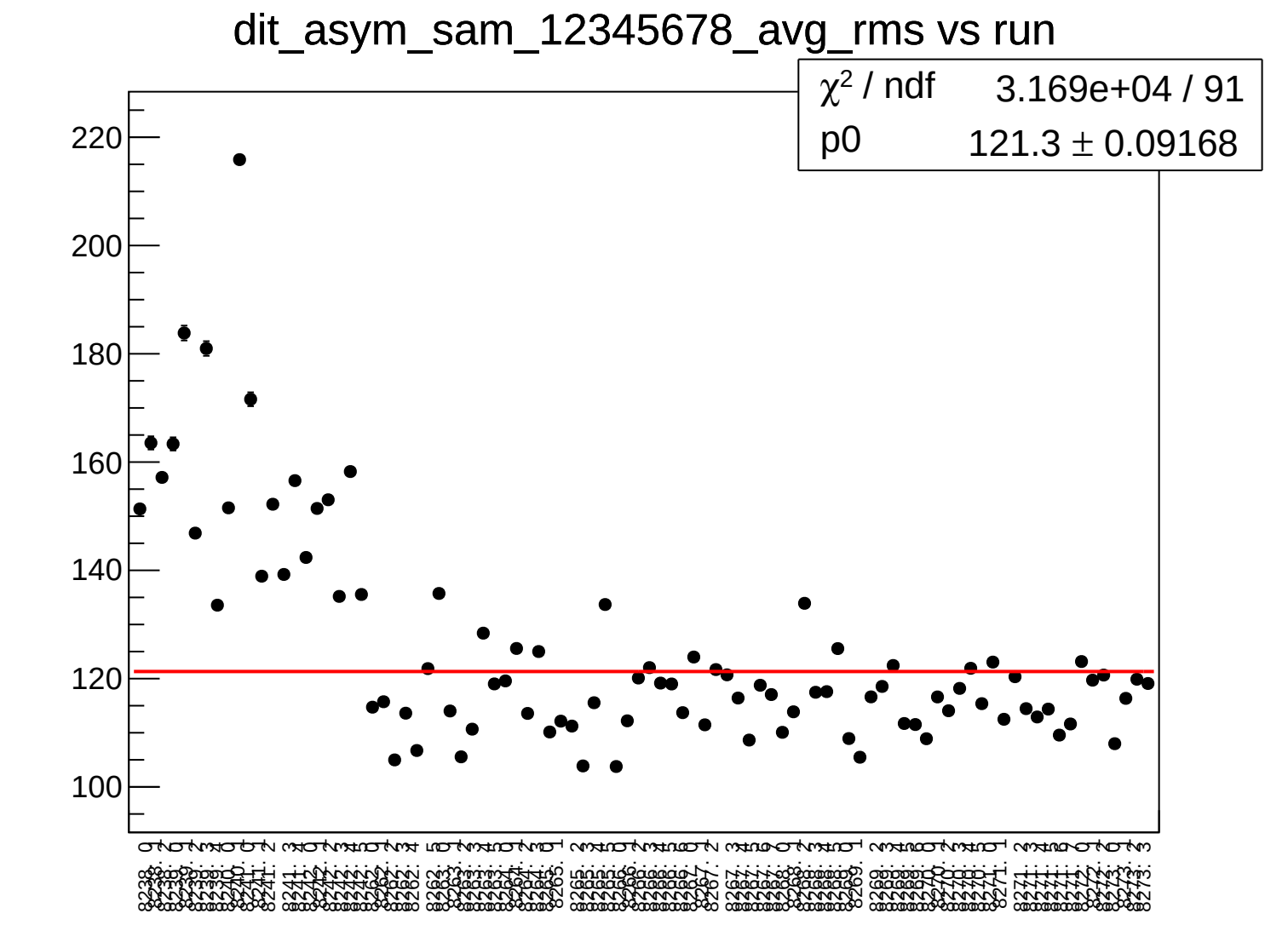

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 73.18 / 91
p0 −5431 ± 1671
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −2588
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

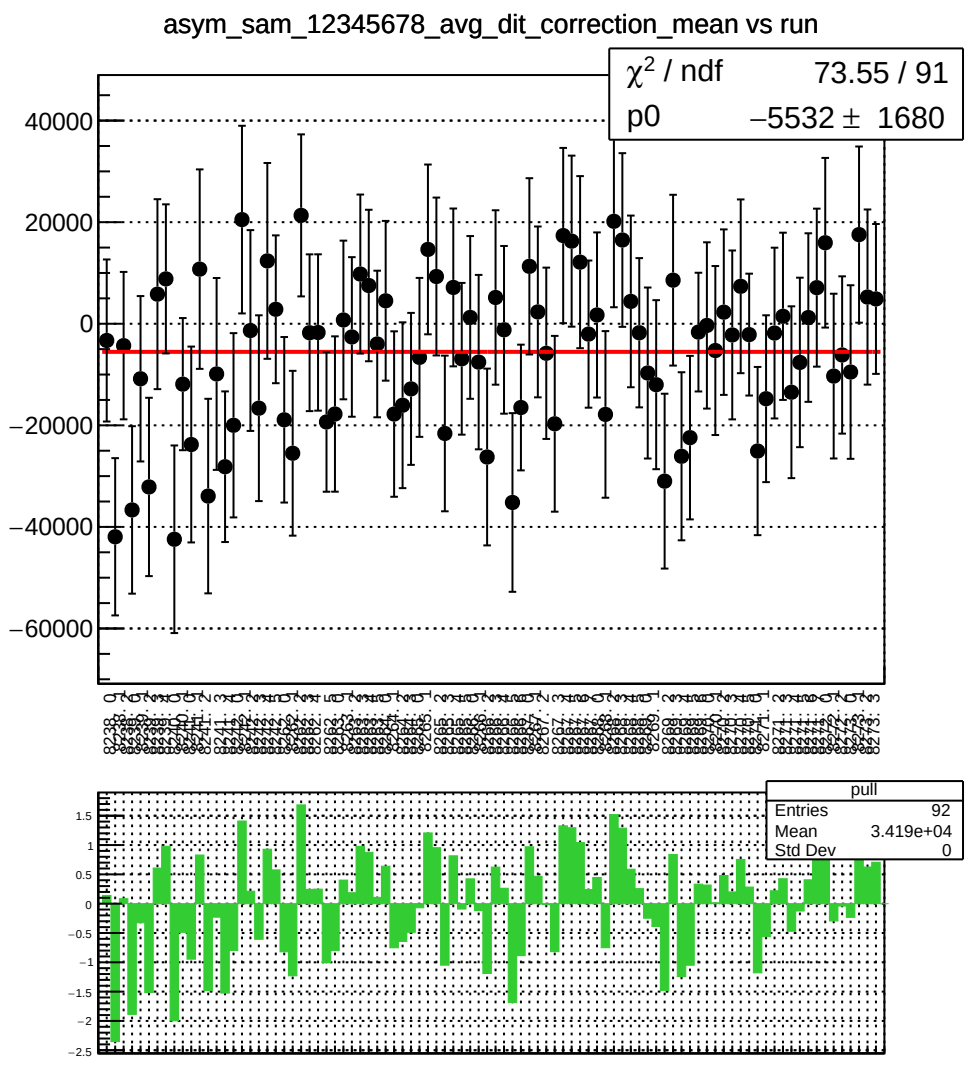

pull1D
Entries 92
Mean −0.002273
Std Dev 0.8918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

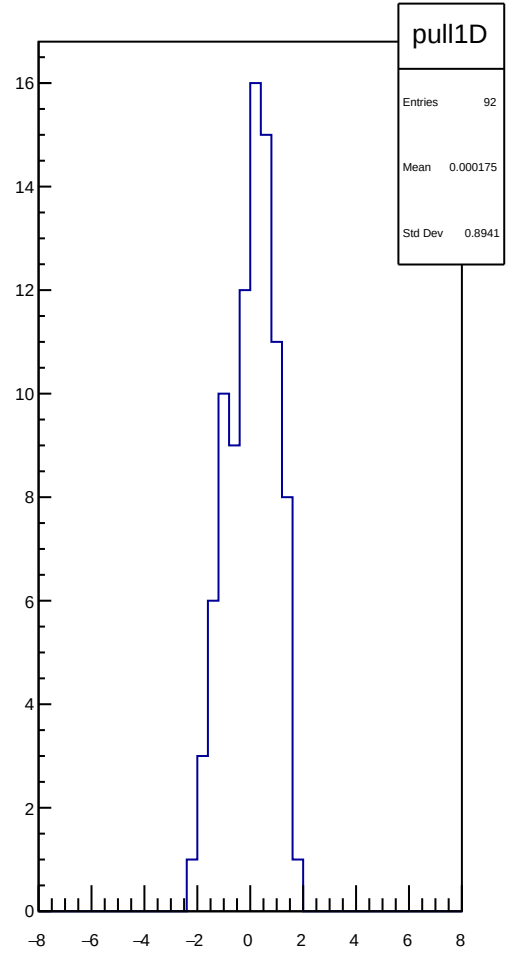

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 8546 / 91
p0 1574 ± 1.182
2000
1900
1800
1700
1600
1500
1400

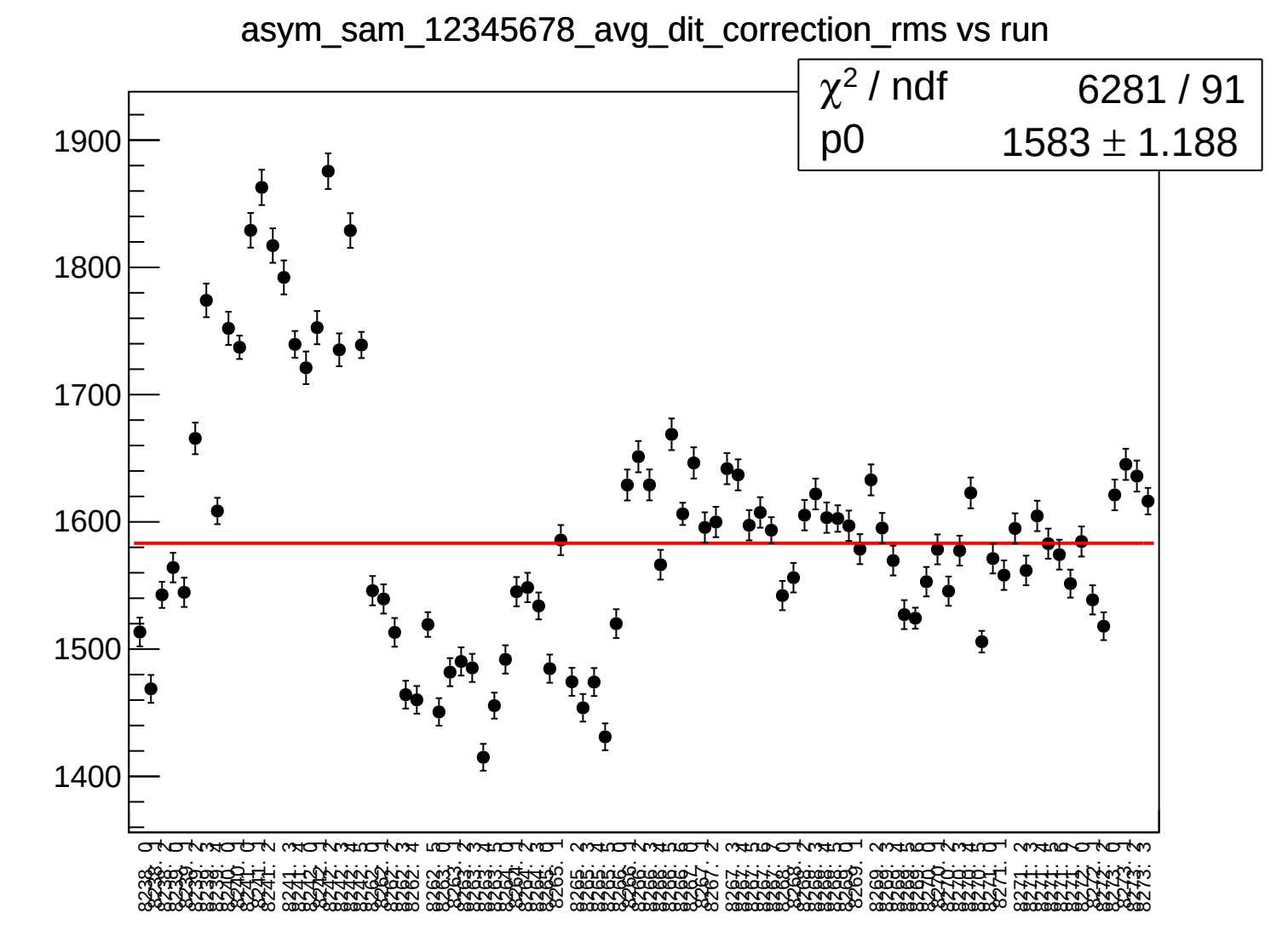

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 79.44 / 91
p0 39.44 ± 129.6
pull
Entries 92
Mean −142.2
Std Dev 0

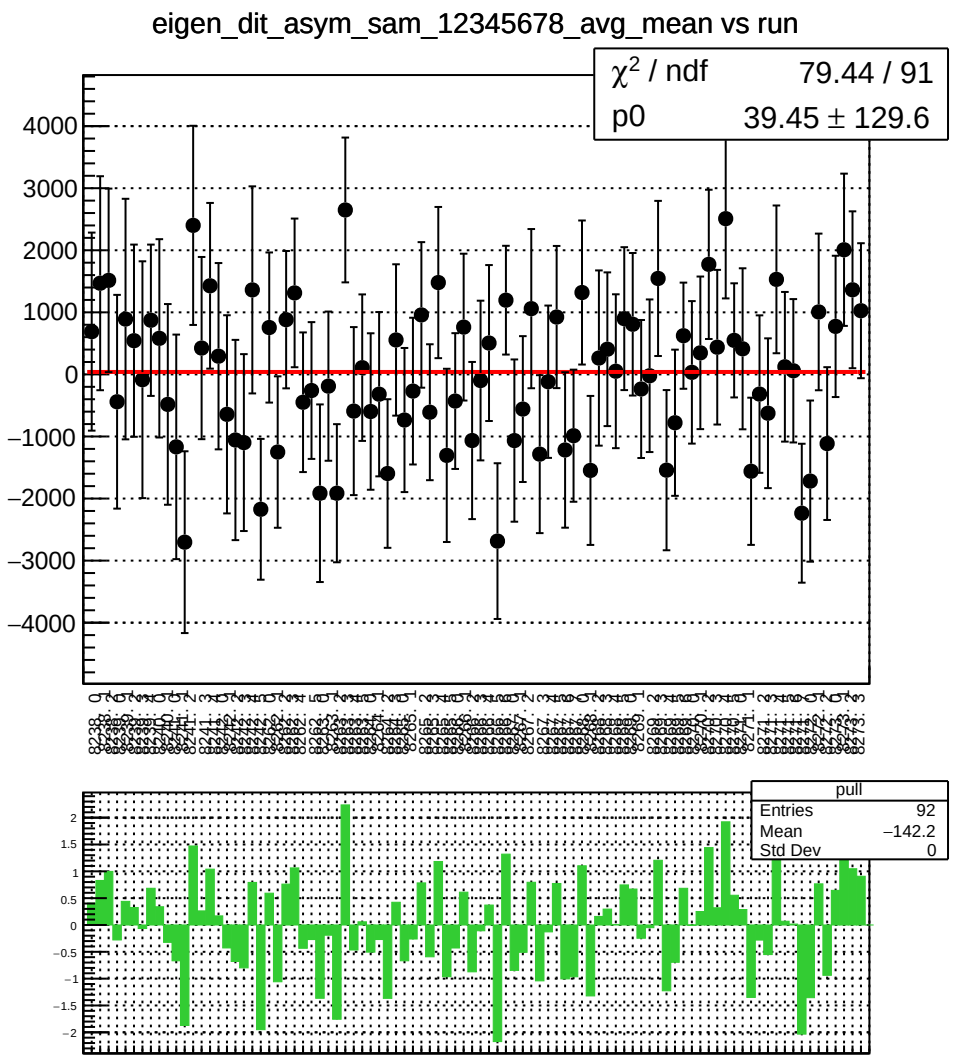

pull1D
Entries 92
Mean −0.007214
Std Dev 0.9292

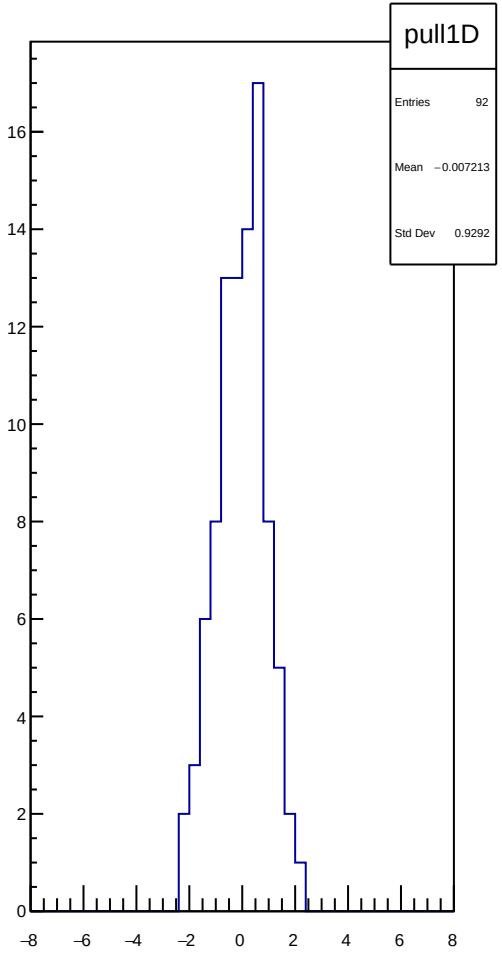

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.169e+04 / 91
p0 121.3 ± 0.09168
220
200
180
160
140
120
100

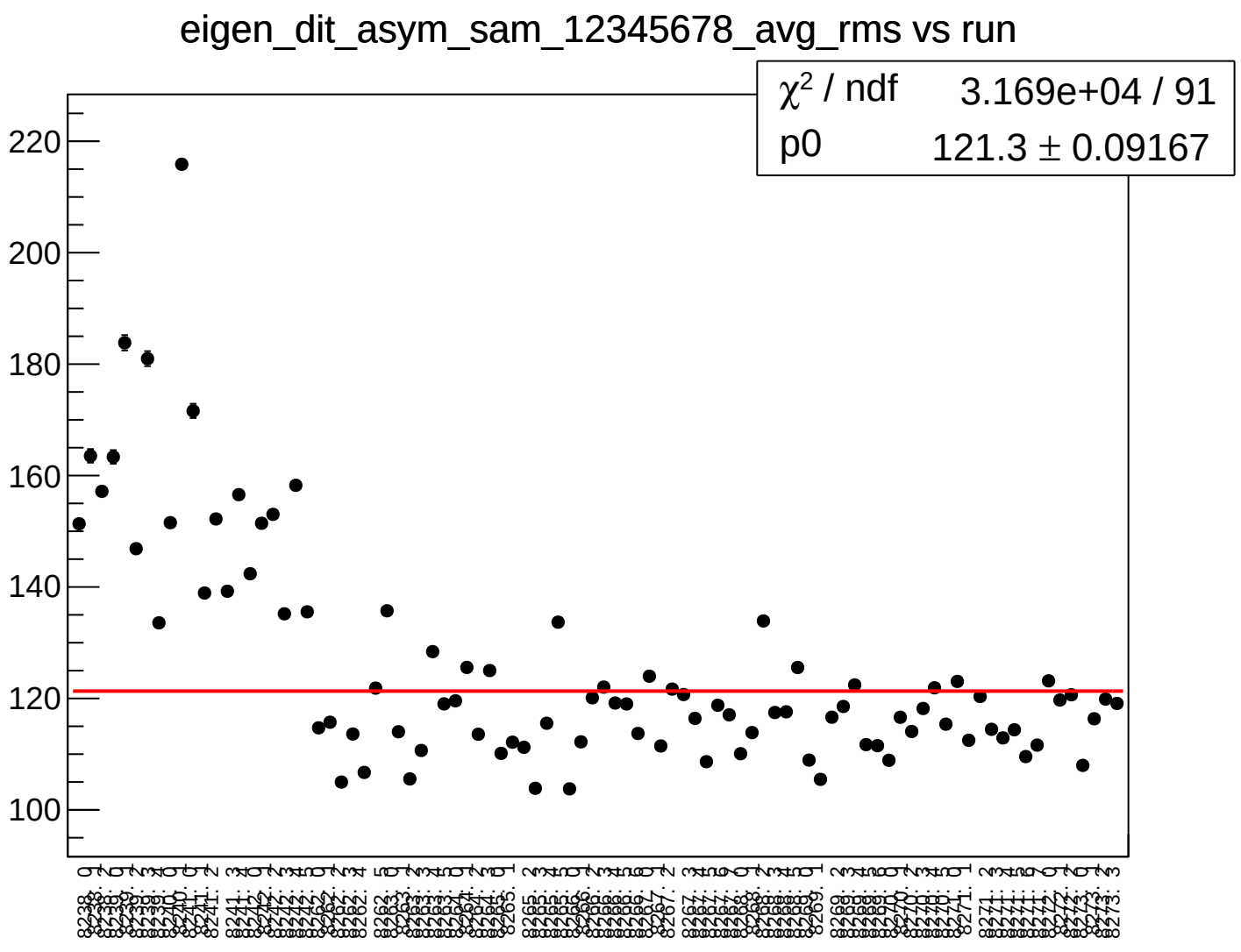

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 73.55 / 91
p0 −5532 ± 1680
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 3.419e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

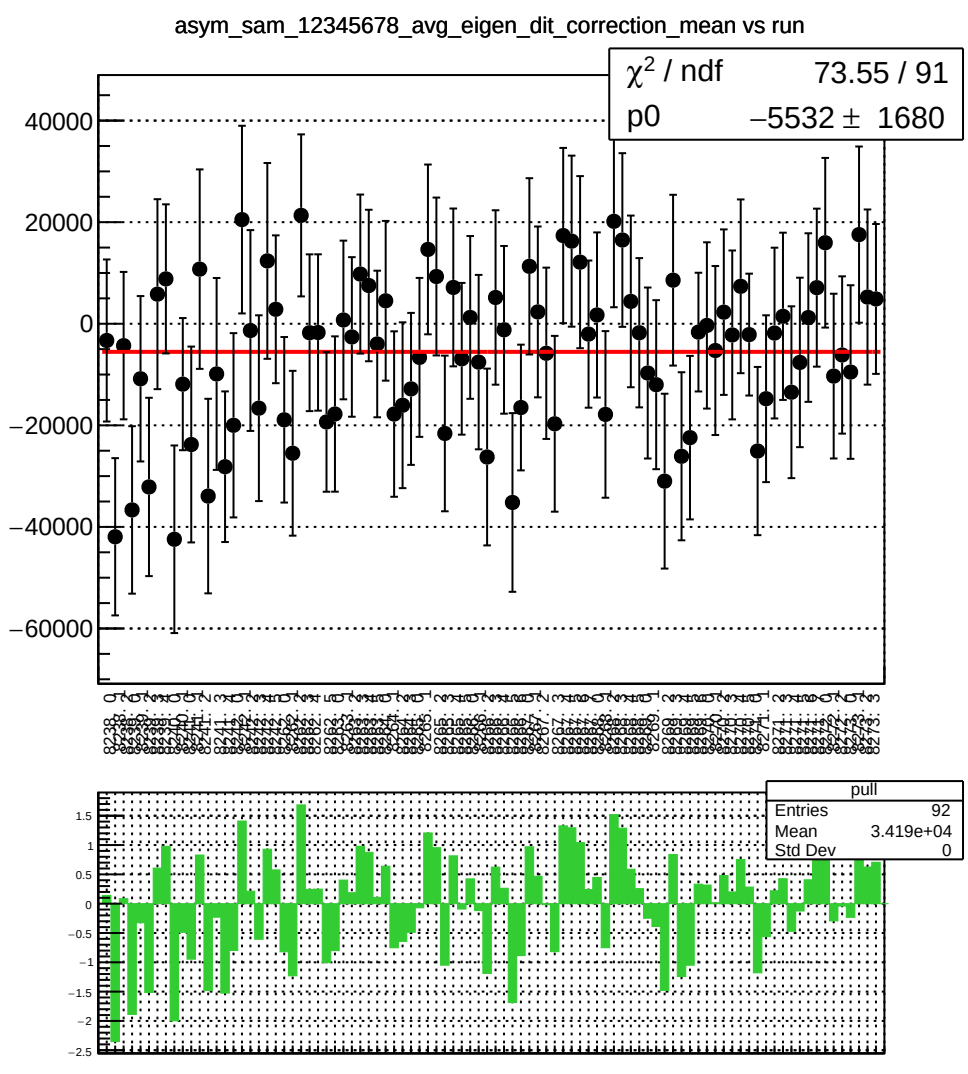

pull1D
Entries 92
Mean 0.000175
Std Dev 0.8941
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

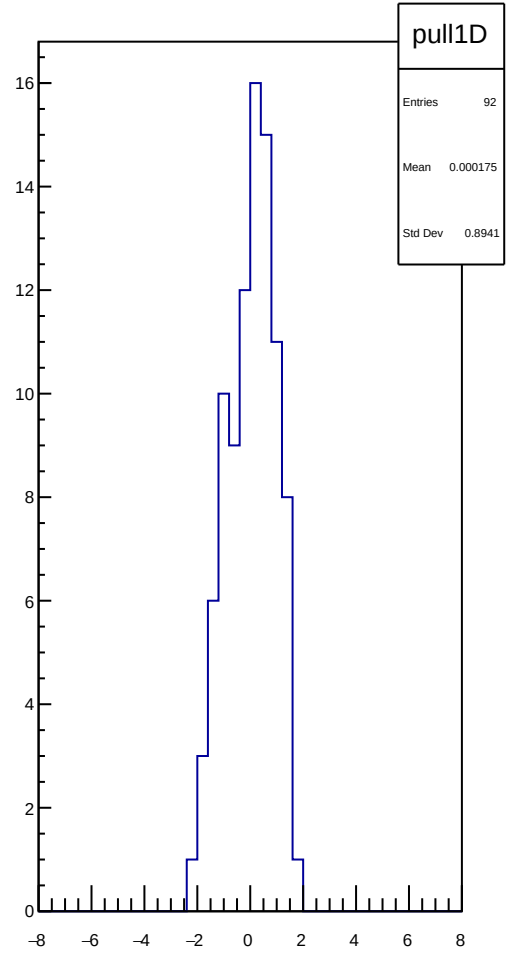

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 6281 / 91
p0 1583 ± 1.188
1900
1800
1700
1600
1500
1400

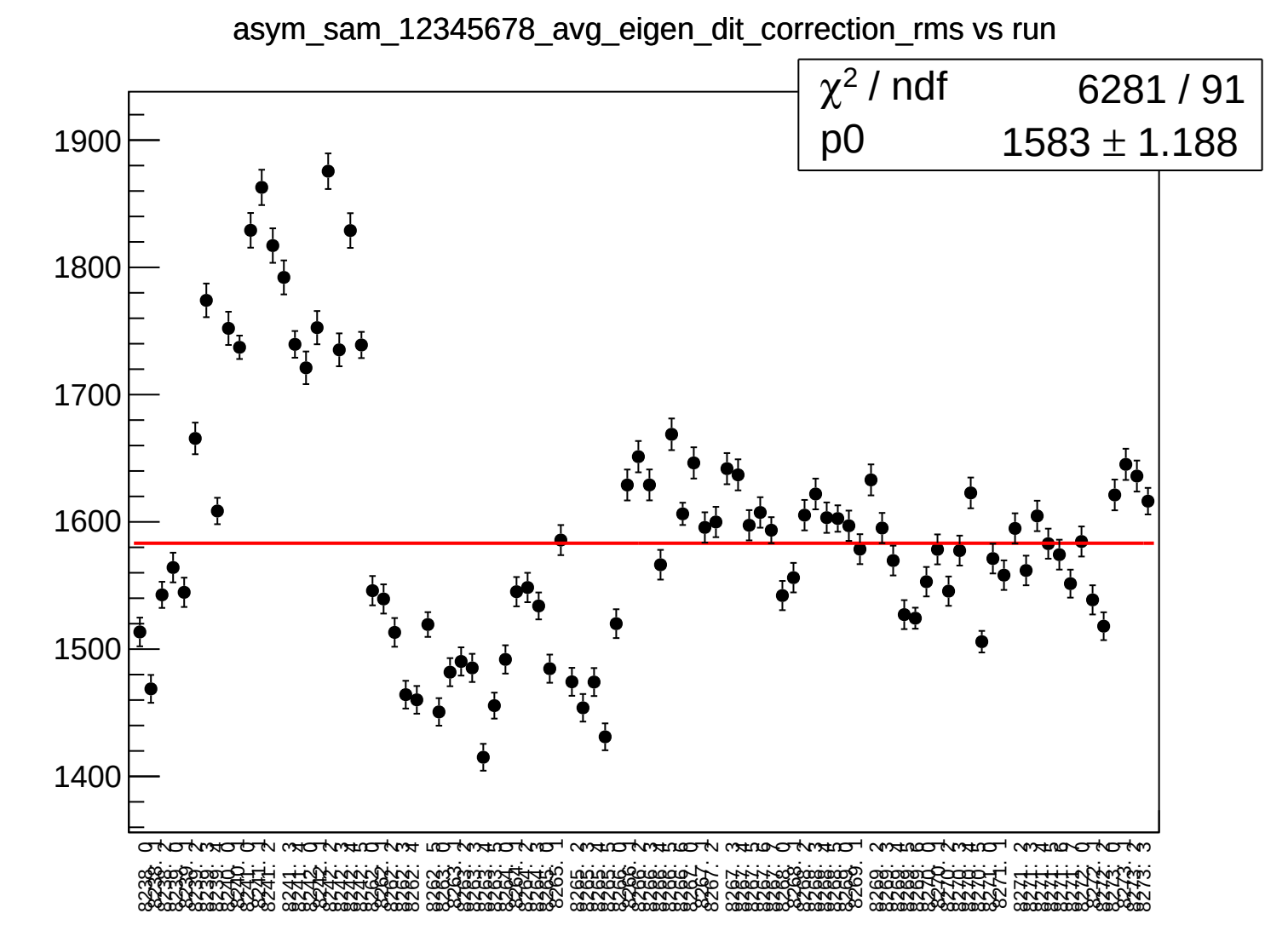

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 79.44 / 91
p0 39.45 ± 129.6
pull
Entries 92
Mean −142.2
Std Dev 0

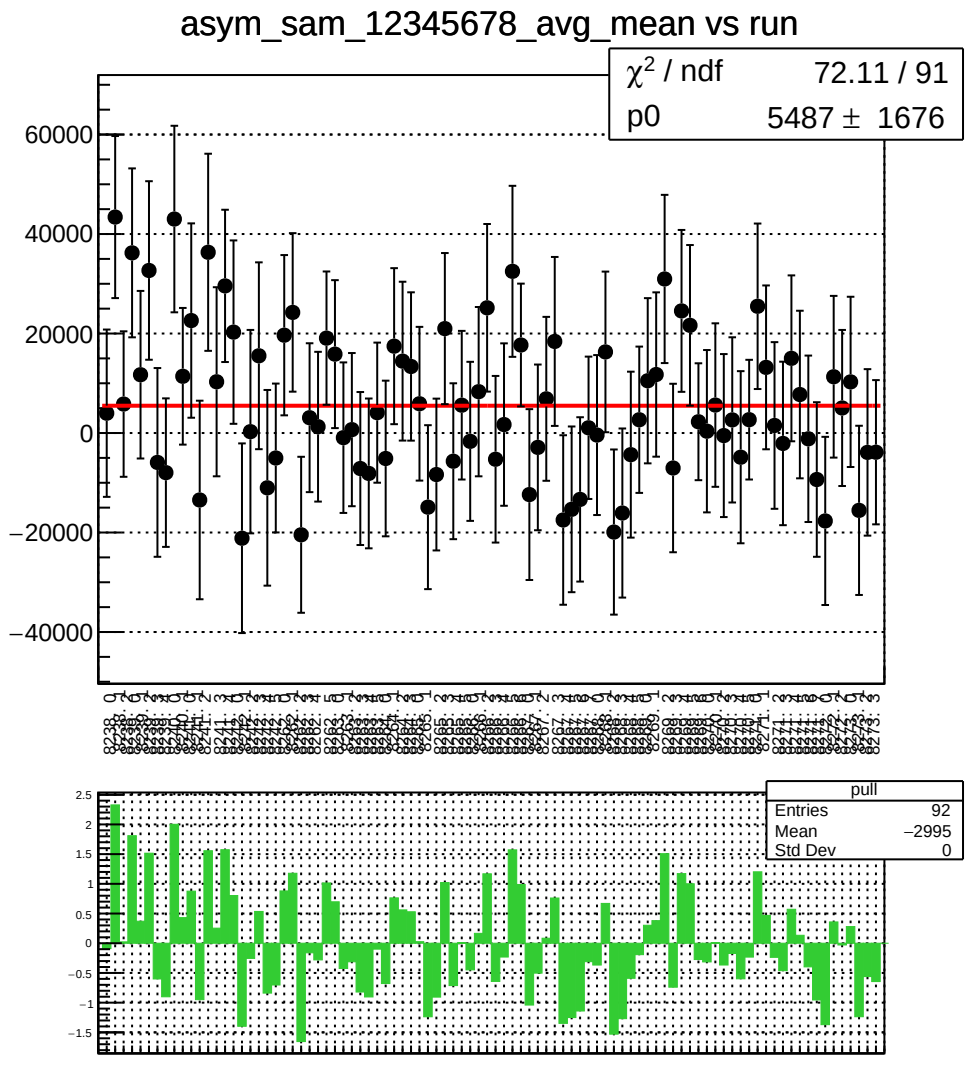

pull1D
Entries 92
Mean −0.007213
Std Dev 0.9292

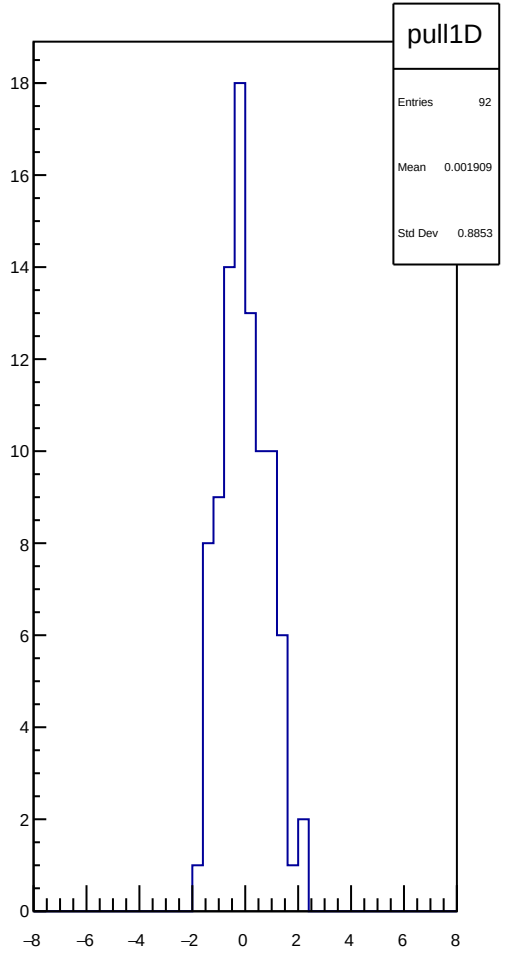

eigen_dit_asym_sam_12345678_avg_rms vs run
$\chi^2$ / ndf 3.169e+04 / 91
p0 121.3 ± 0.09167
220
200
180
160
140
120
100

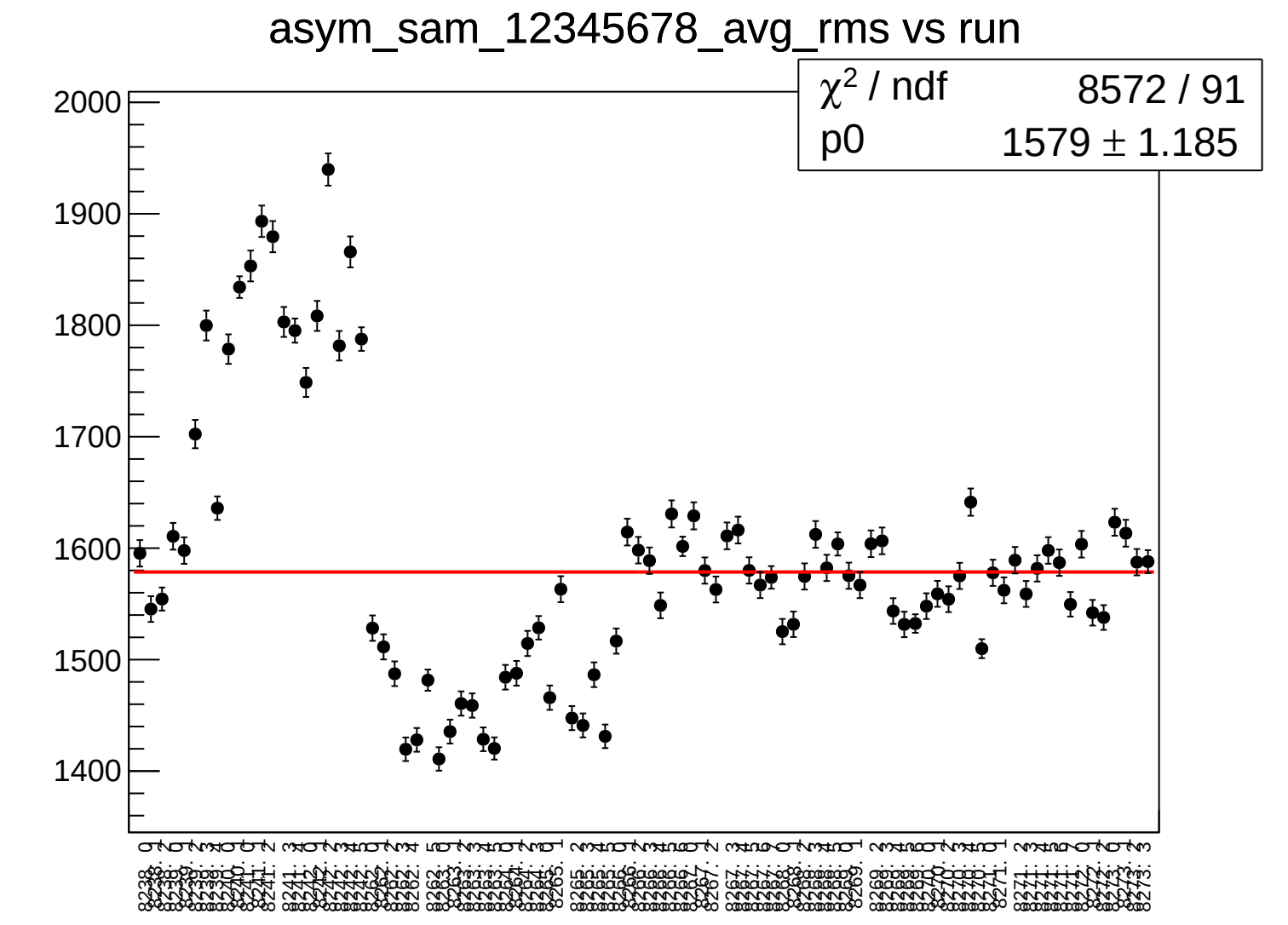

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 73.55 / 91
p0 −5532 ± 1680
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 3.419e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

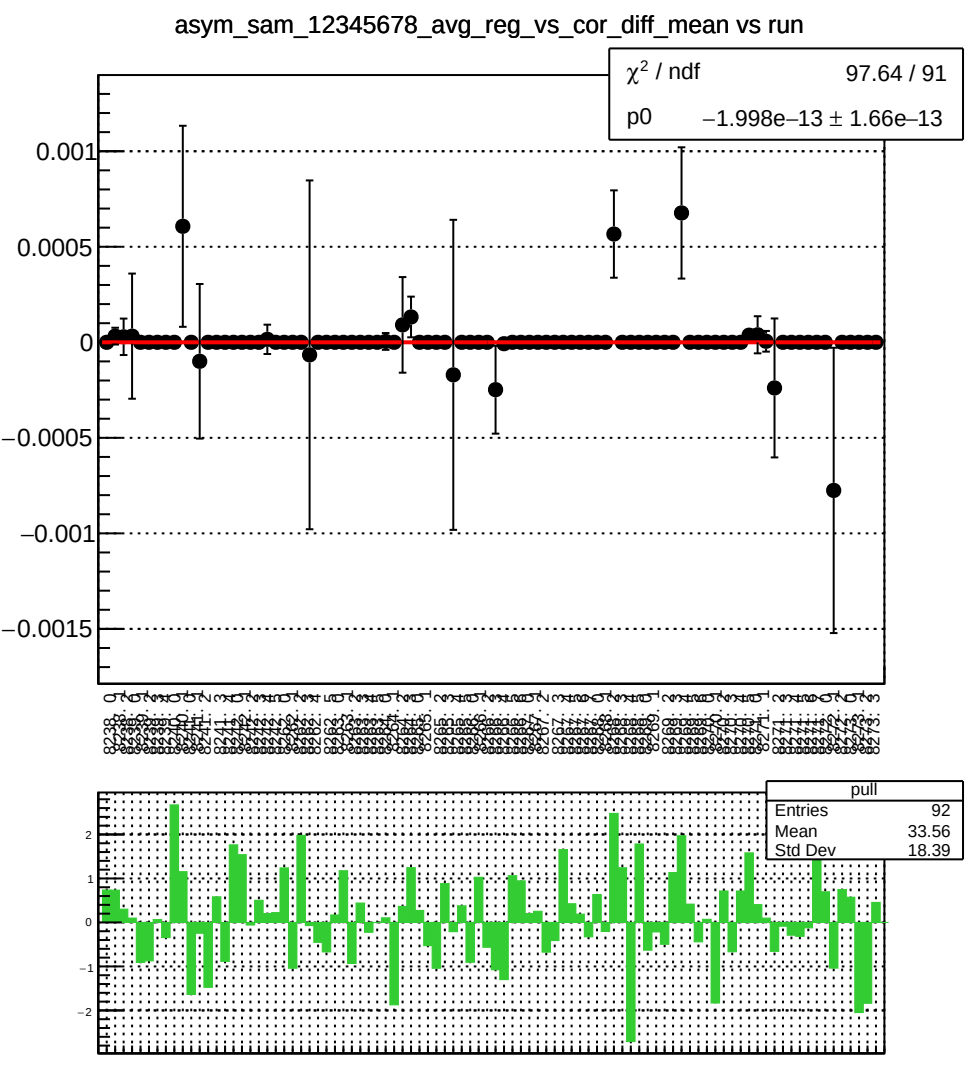

pull1D
Entries 92
Mean 0.000175
Std Dev 0.8941
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

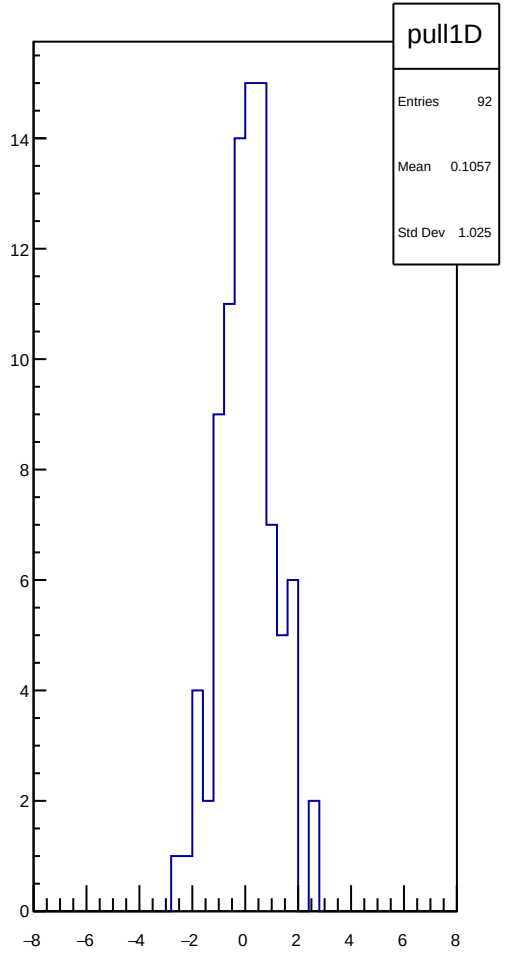

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 6281 / 91
p0 1583 ± 1.188
1900
1800
1700
1600
1500
1400

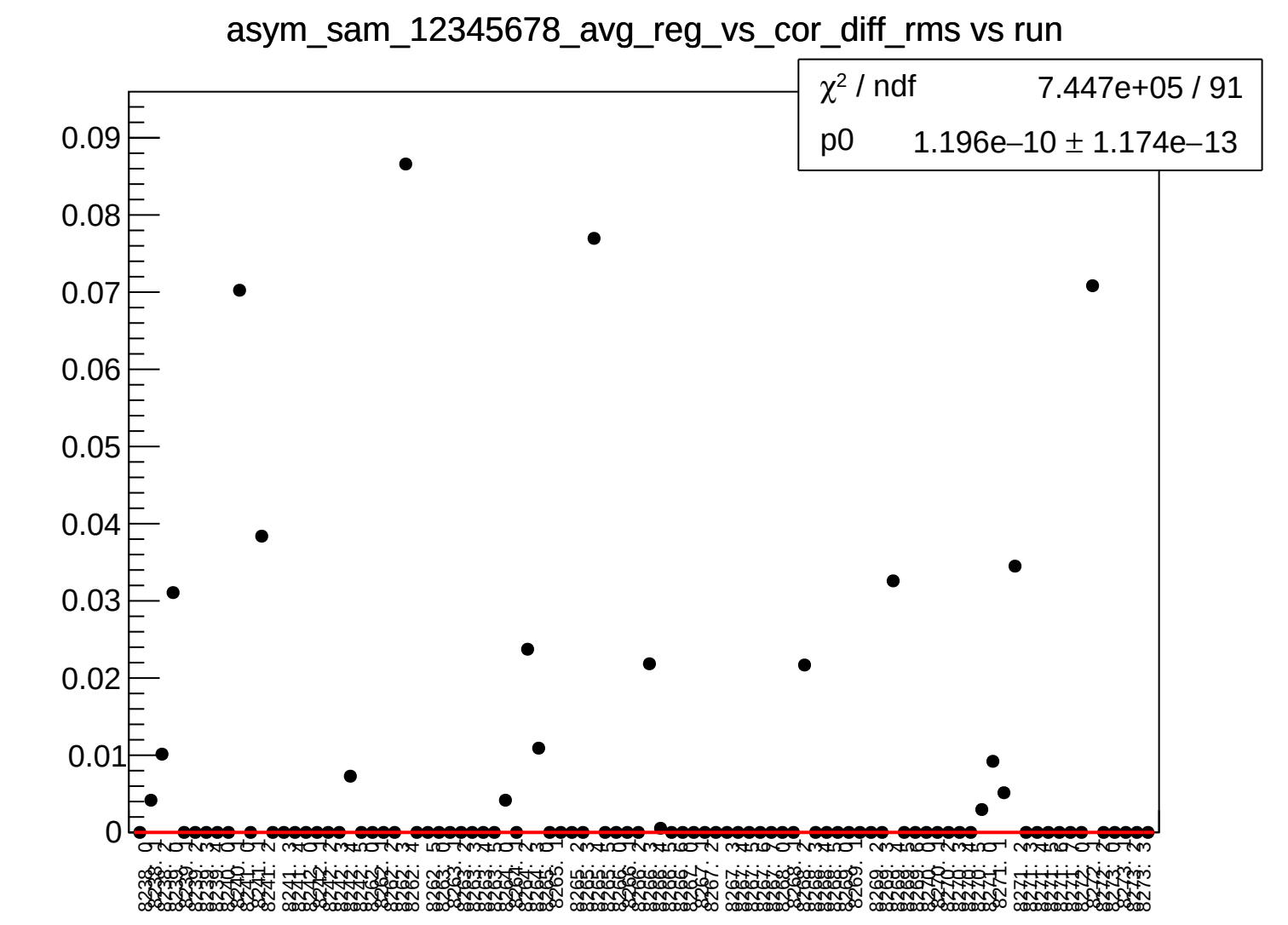

asym_sam_12345678_avg_mean vs run
χ² / ndf 72.11 / 91
p0 5487 ± 1676
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −2995
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

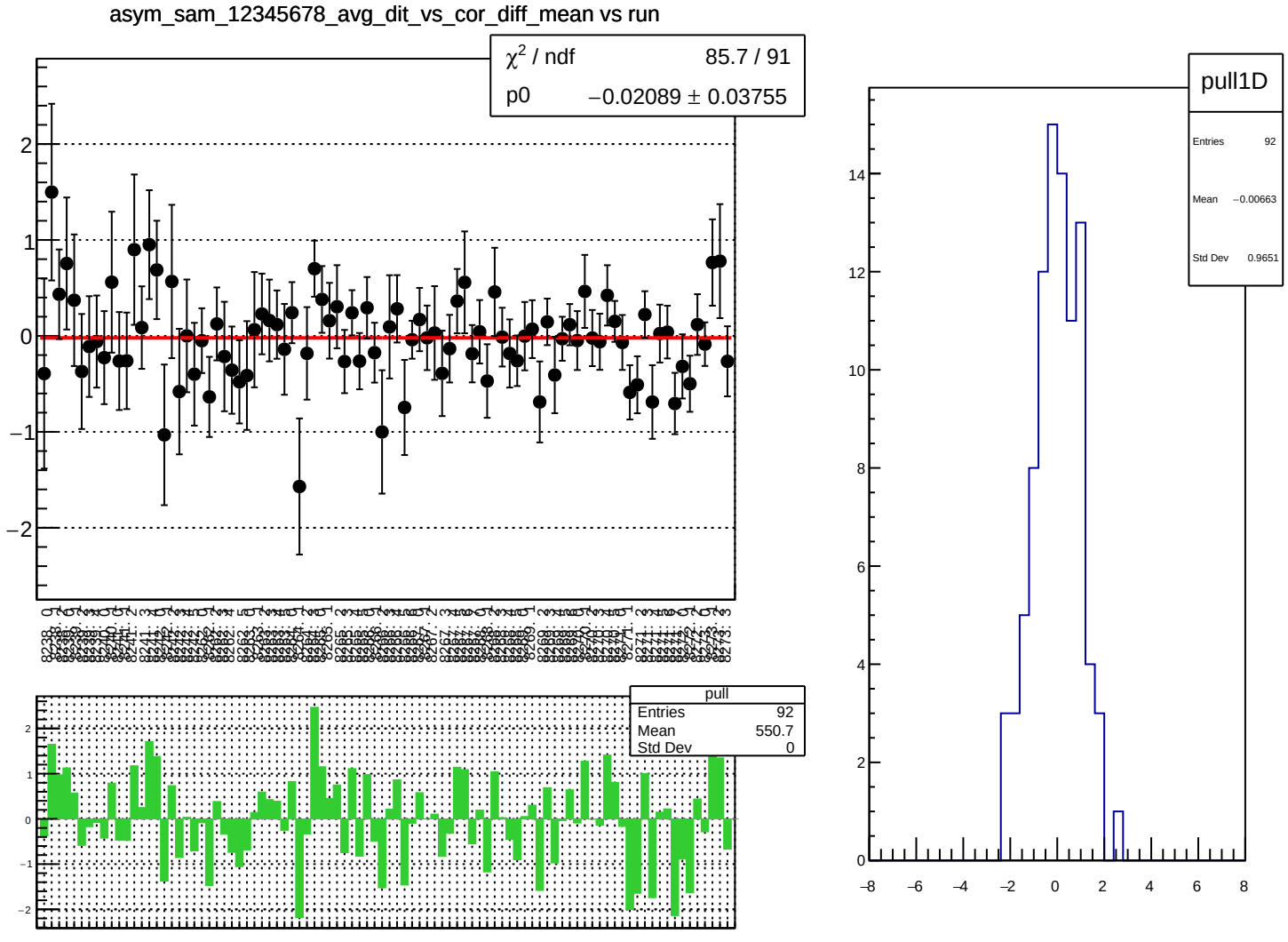

pull1D
Entries 92
Mean 0.001909
Std Dev 0.8853
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

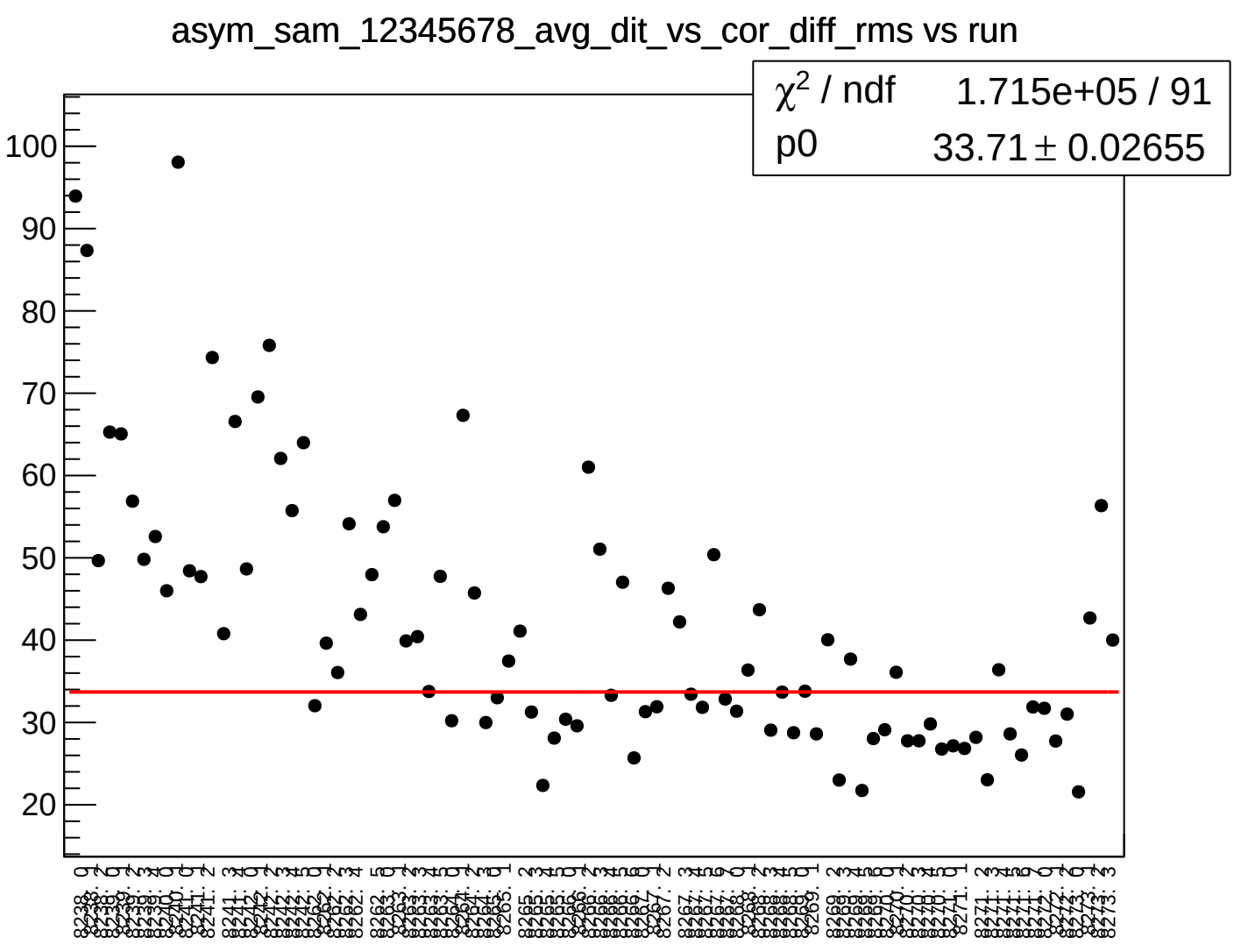

asym_sam_12345678_avg_rms vs run
χ² / ndf 8572 / 91
p0 1579 ± 1.185
2000
1900
1800
1700
1600
1500
1400

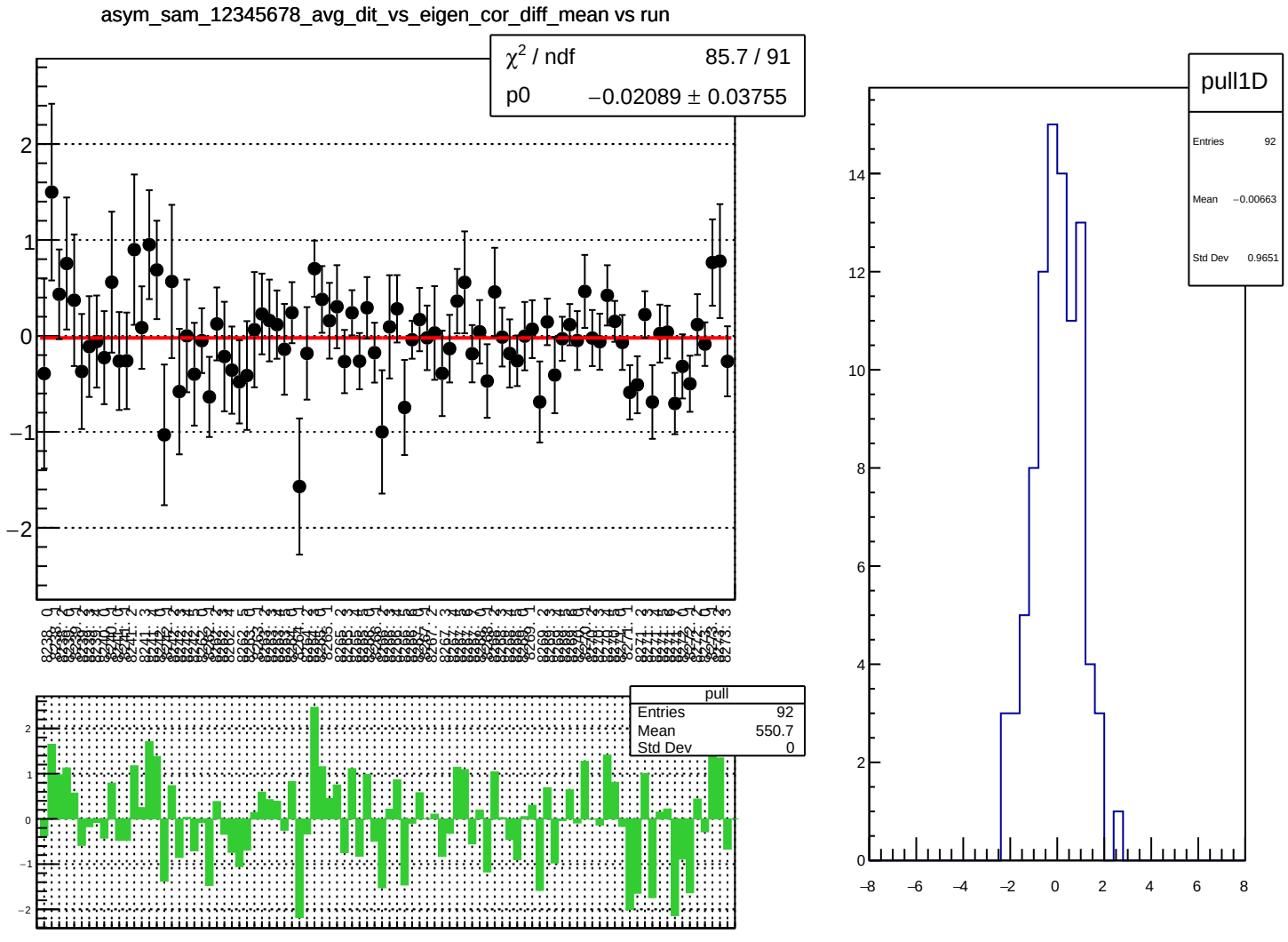

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.64 / 91
p0 −1.998e−13 ± 1.66e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 92
Mean 33.56
Std Dev 18.39
2
1
0
−1
−2

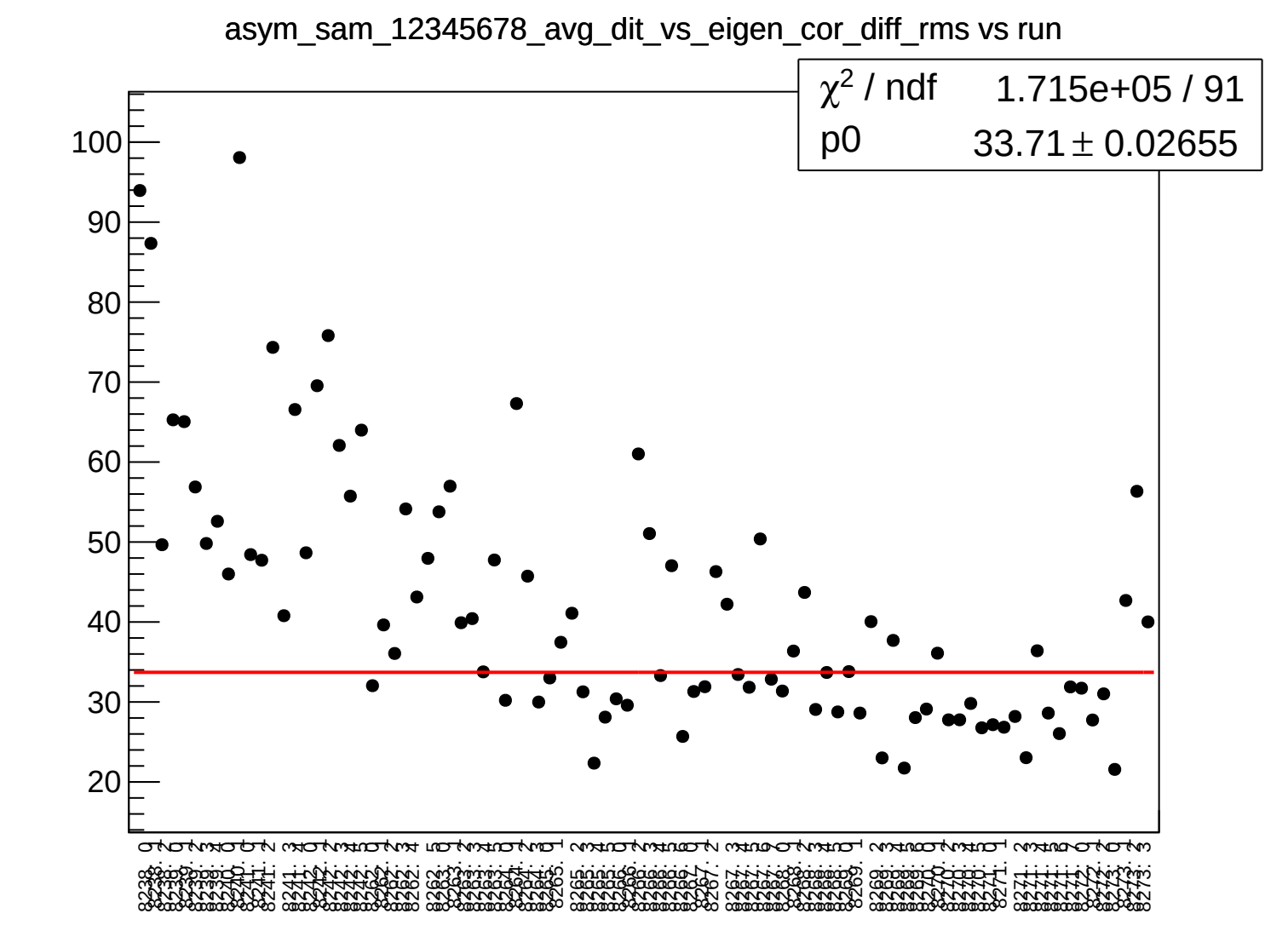

pull1D
Entries 92
Mean 0.1057
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

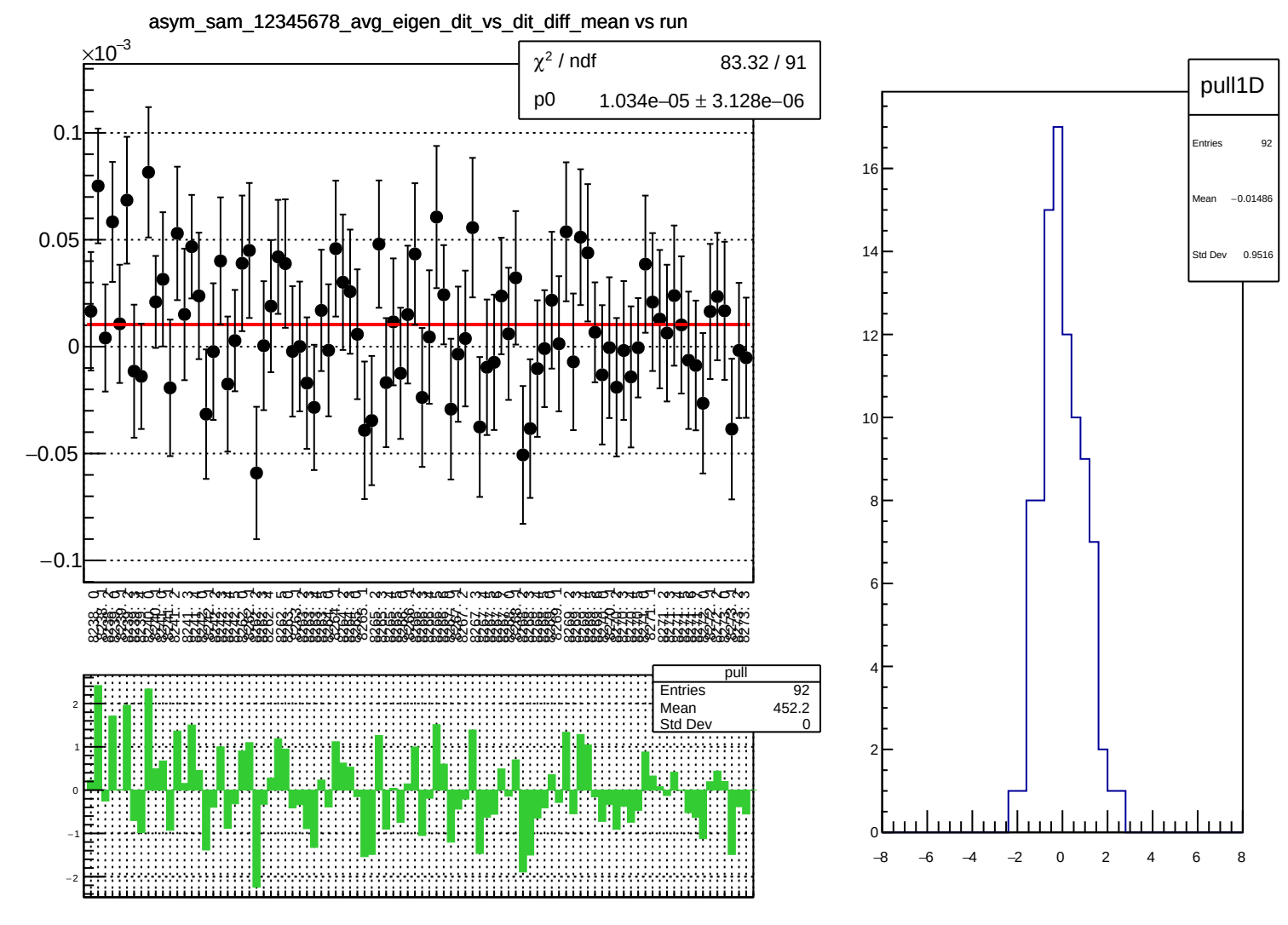

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.447e+05 / 91
p0 1.196e−10 ± 1.174e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

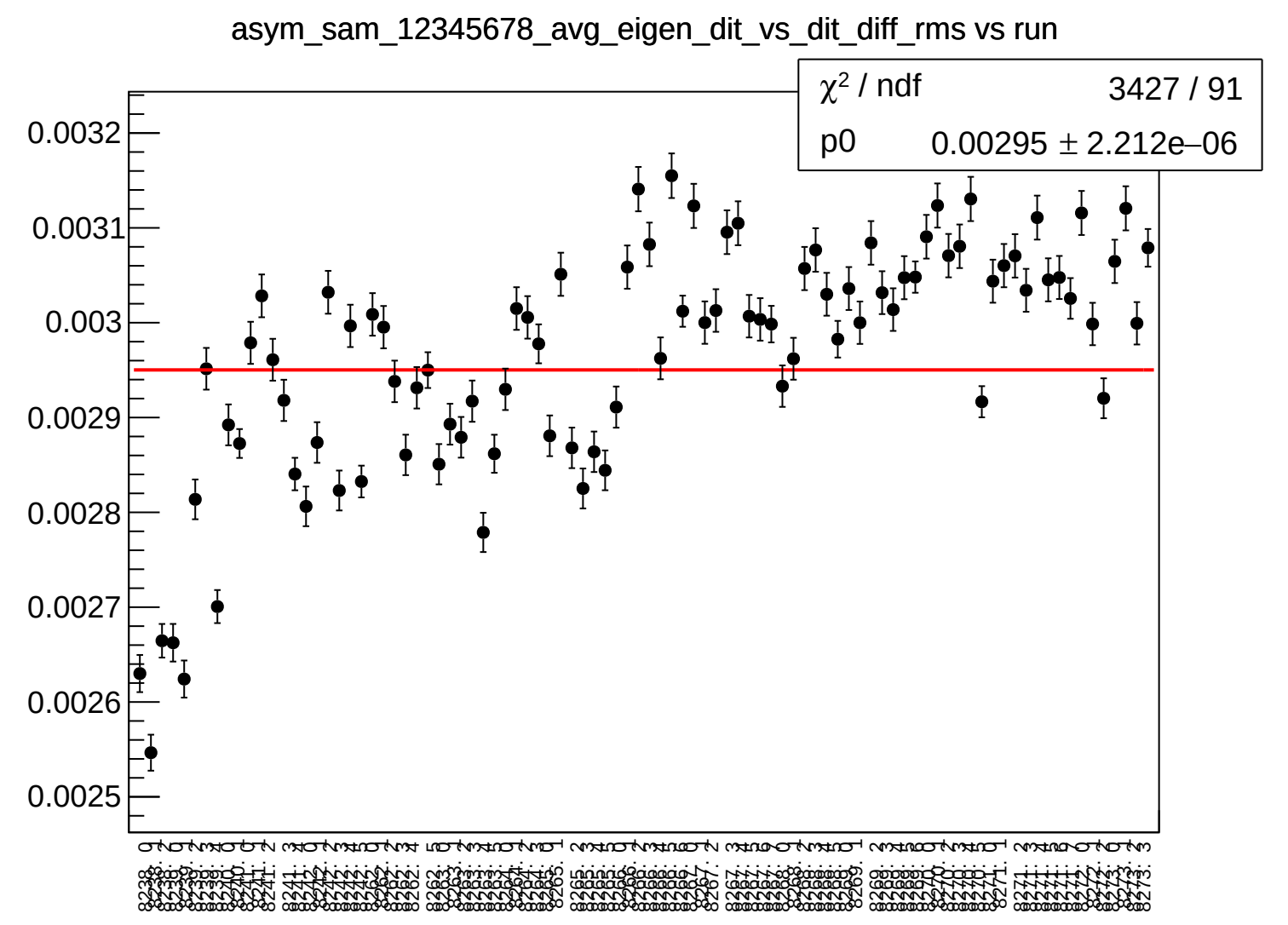

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.7 / 91
p0 −0.02089 ± 0.03755
pull
Entries 92
Mean 550.7
Std Dev 0
pull1D
Entries 92
Mean −0.00663
Std Dev 0.9651

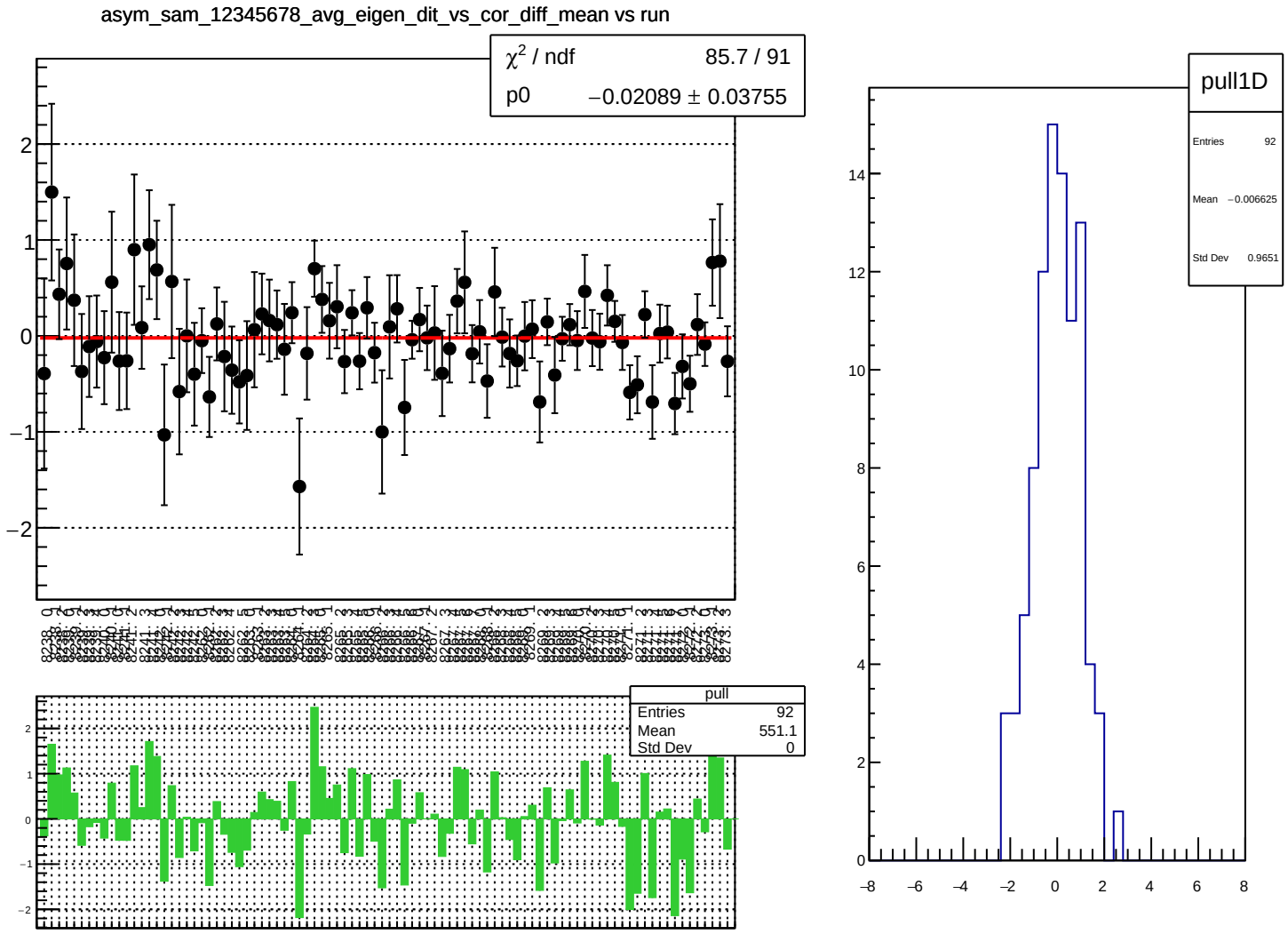

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.715e+05 / 91
p0 33.71 ± 0.02655
100
90
80
70
60
50
40
30
20

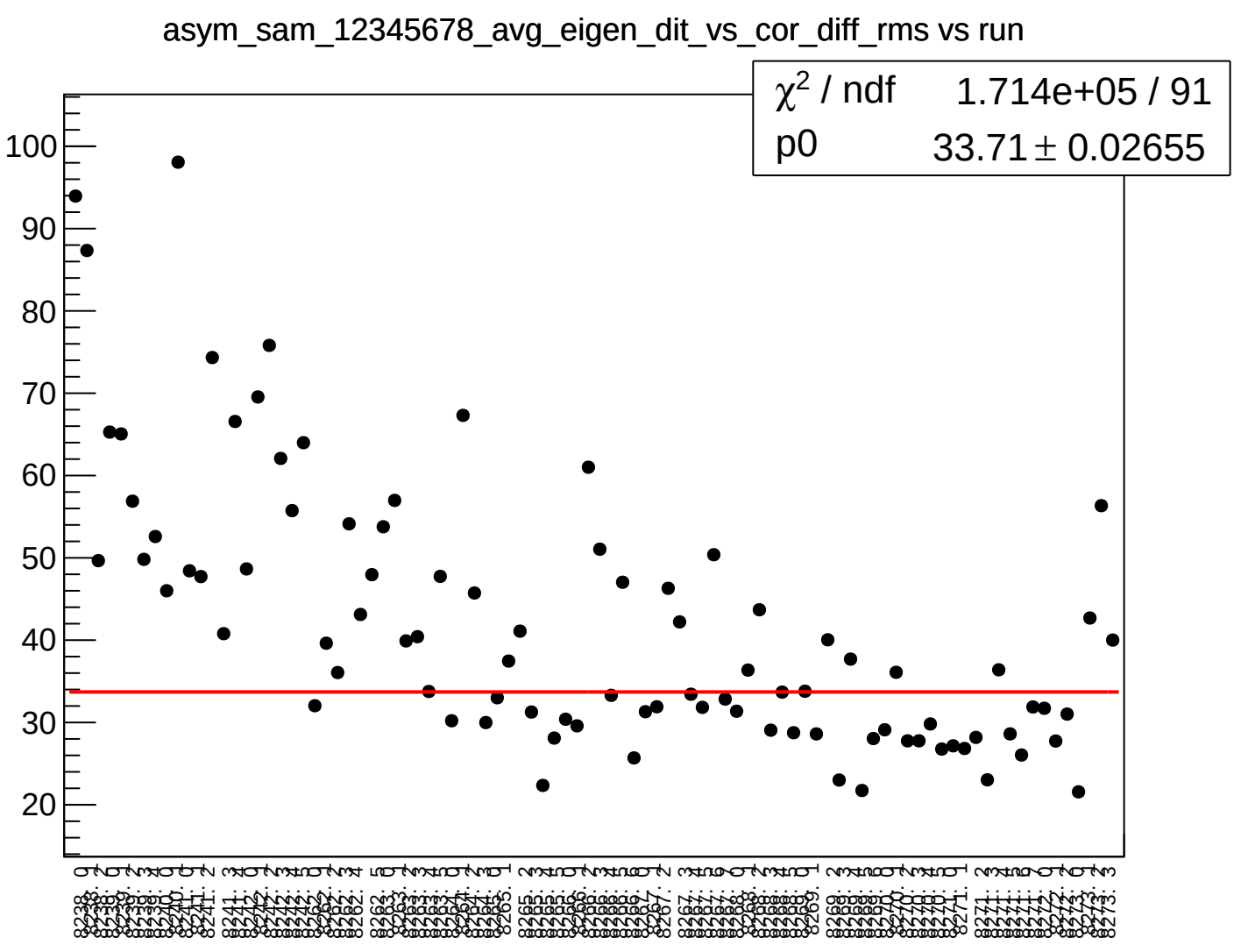

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.7 / 91
p0 −0.02089 ± 0.03755
pull
Entries 92
Mean 550.7
Std Dev 0
pull1D
Entries 92
Mean −0.00663
Std Dev 0.9651

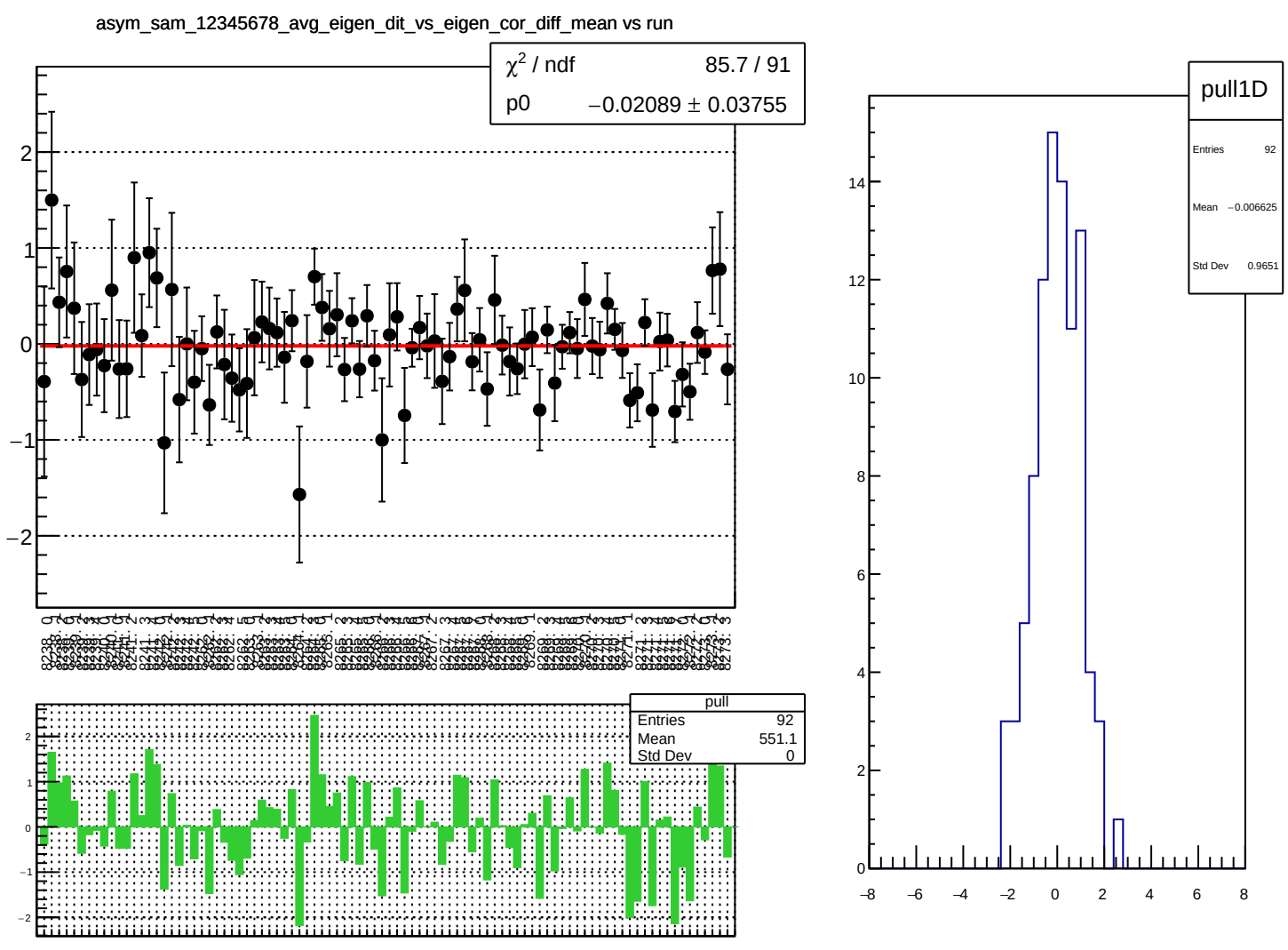

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.715e+05 / 91
p0 33.71 ± 0.02655
100
90
80
70
60
50
40
30
20

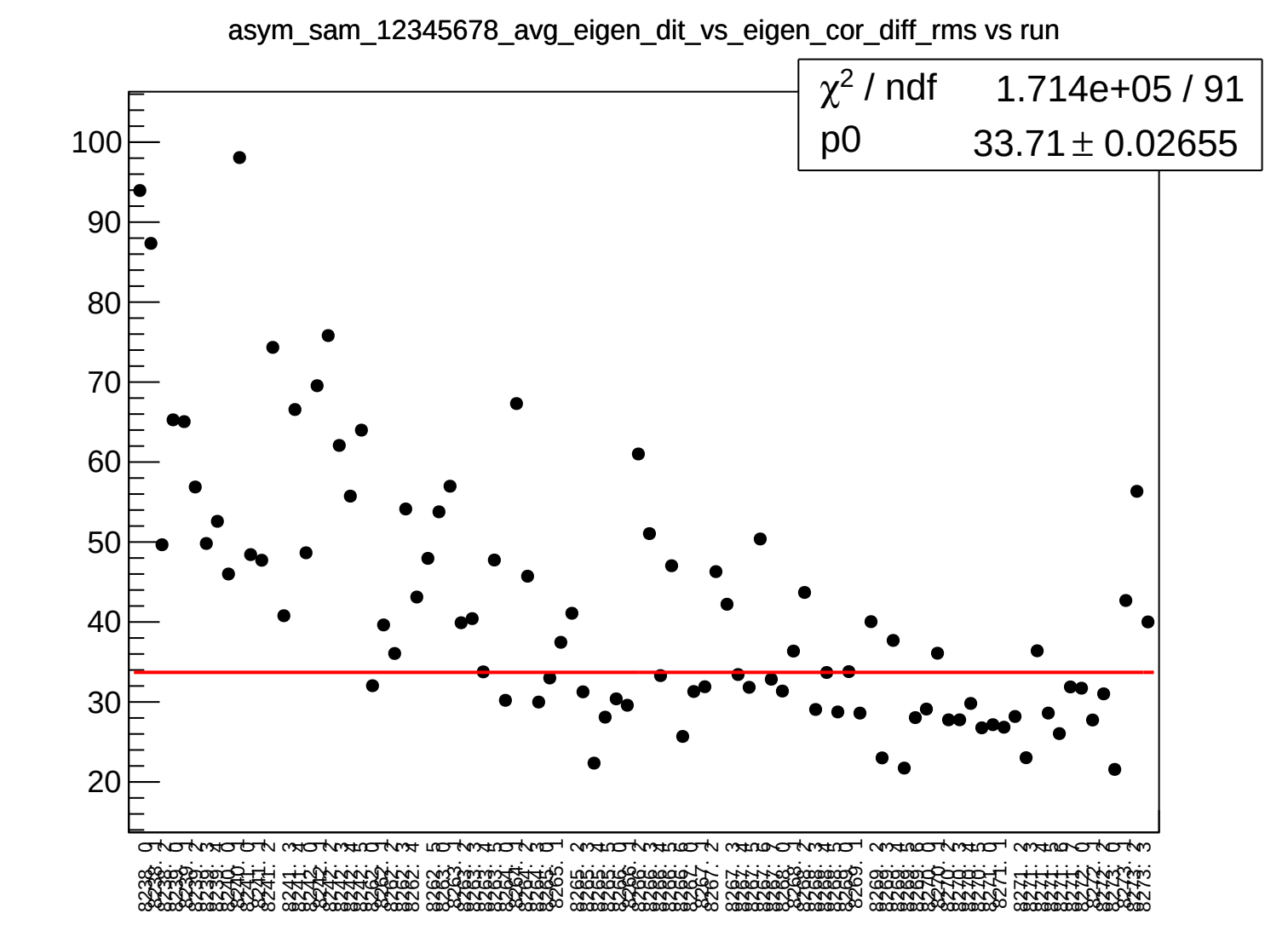

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.32 / 91
p0 1.034e−05 ± 3.128e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean 452.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01486
Std Dev 0.9516
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

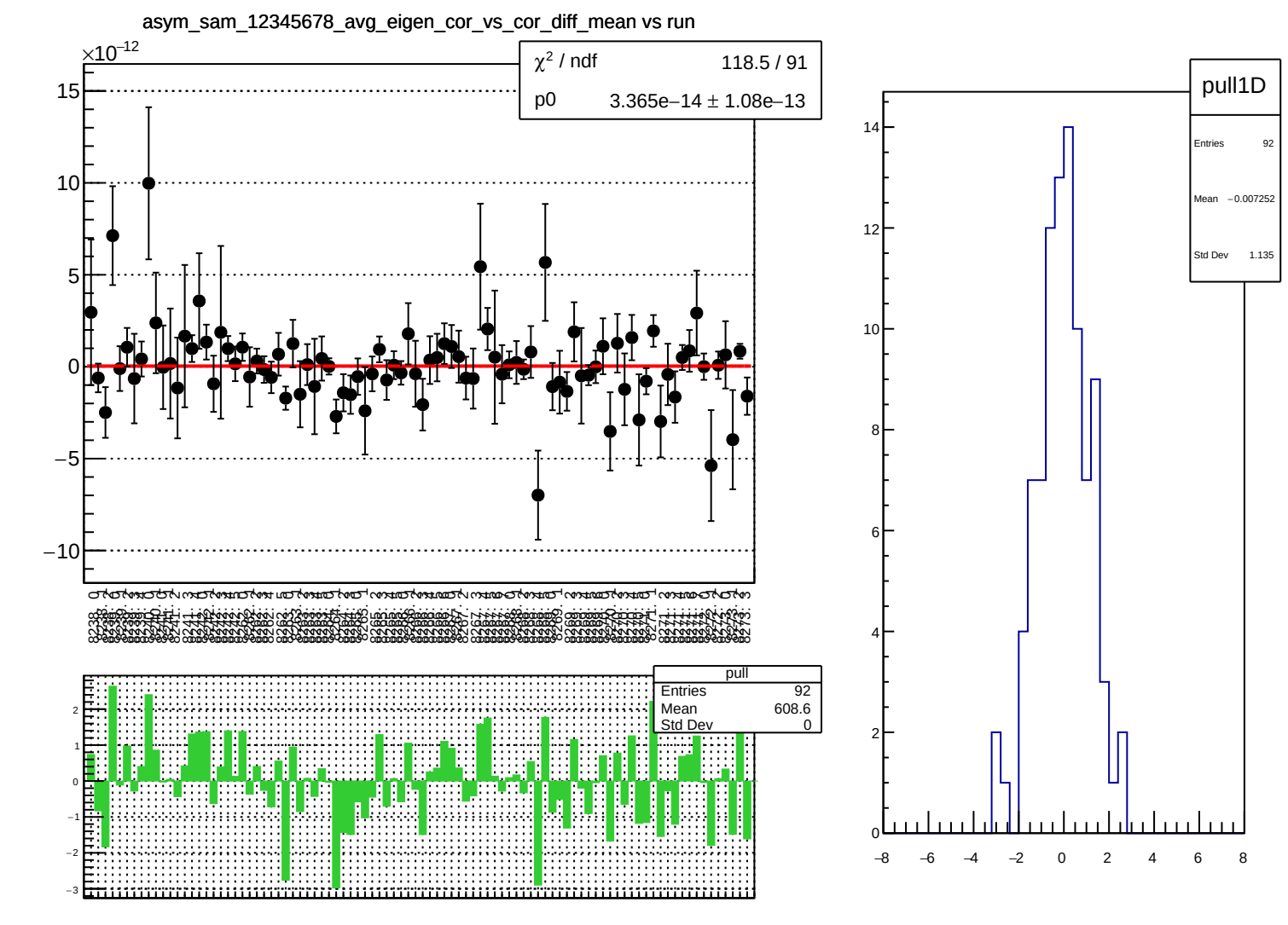

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3427 / 91
p0 0.00295 ± 2.212e−06
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025

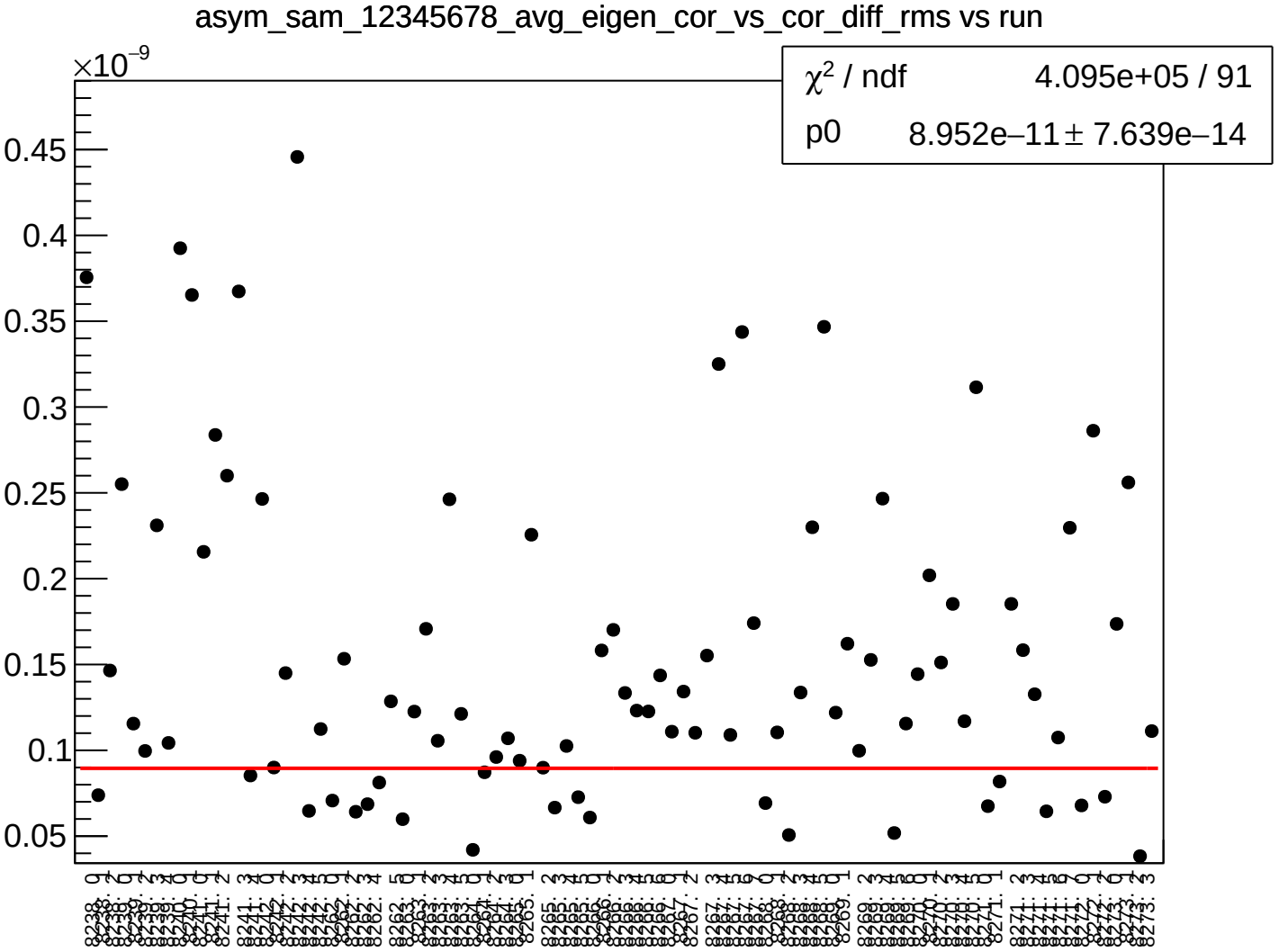

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.7 / 91
p0 −0.02089 ± 0.03755
pull
Entries 92
Mean 551.1
Std Dev 0
pull1D
Entries 92
Mean −0.006625
Std Dev 0.9651

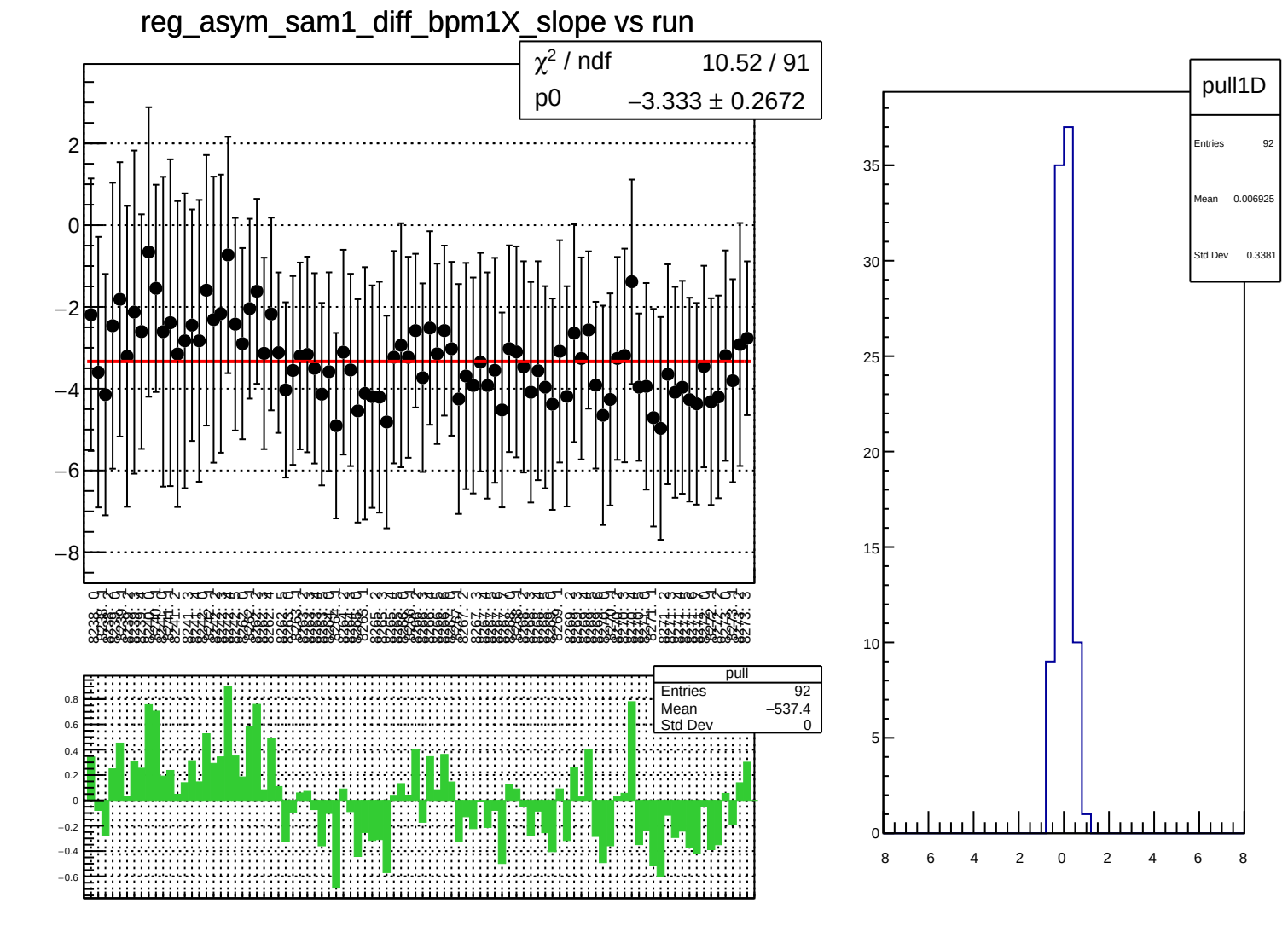

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.714e+05 / 91
p0 33.71 ± 0.02655
100
90
80
70
60
50
40
30
20

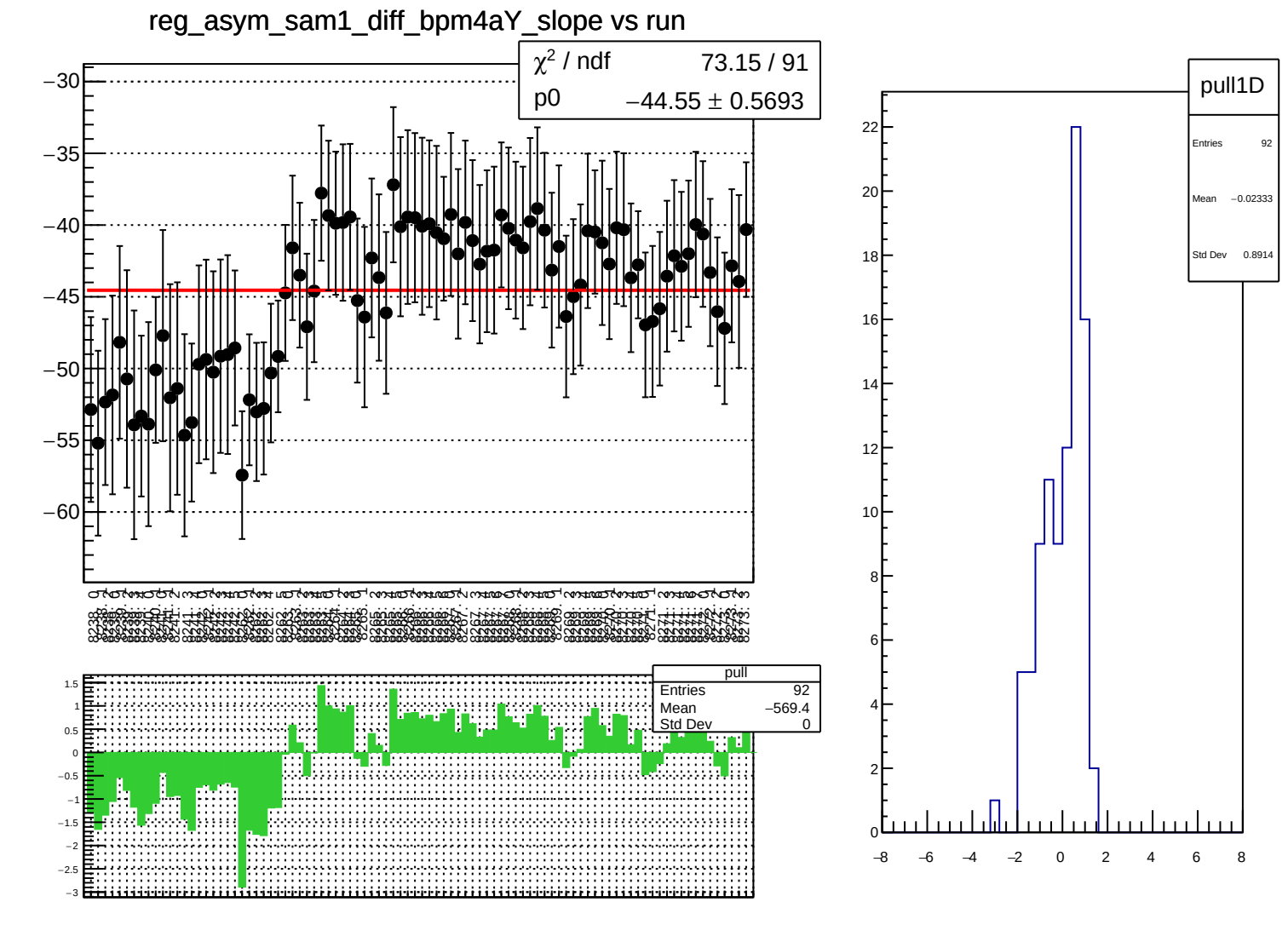

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.7 / 91
p0 −0.02089 ± 0.03755
pull
Entries 92
Mean 551.1
Std Dev 0
pull1D
Entries 92
Mean −0.006625
Std Dev 0.9651

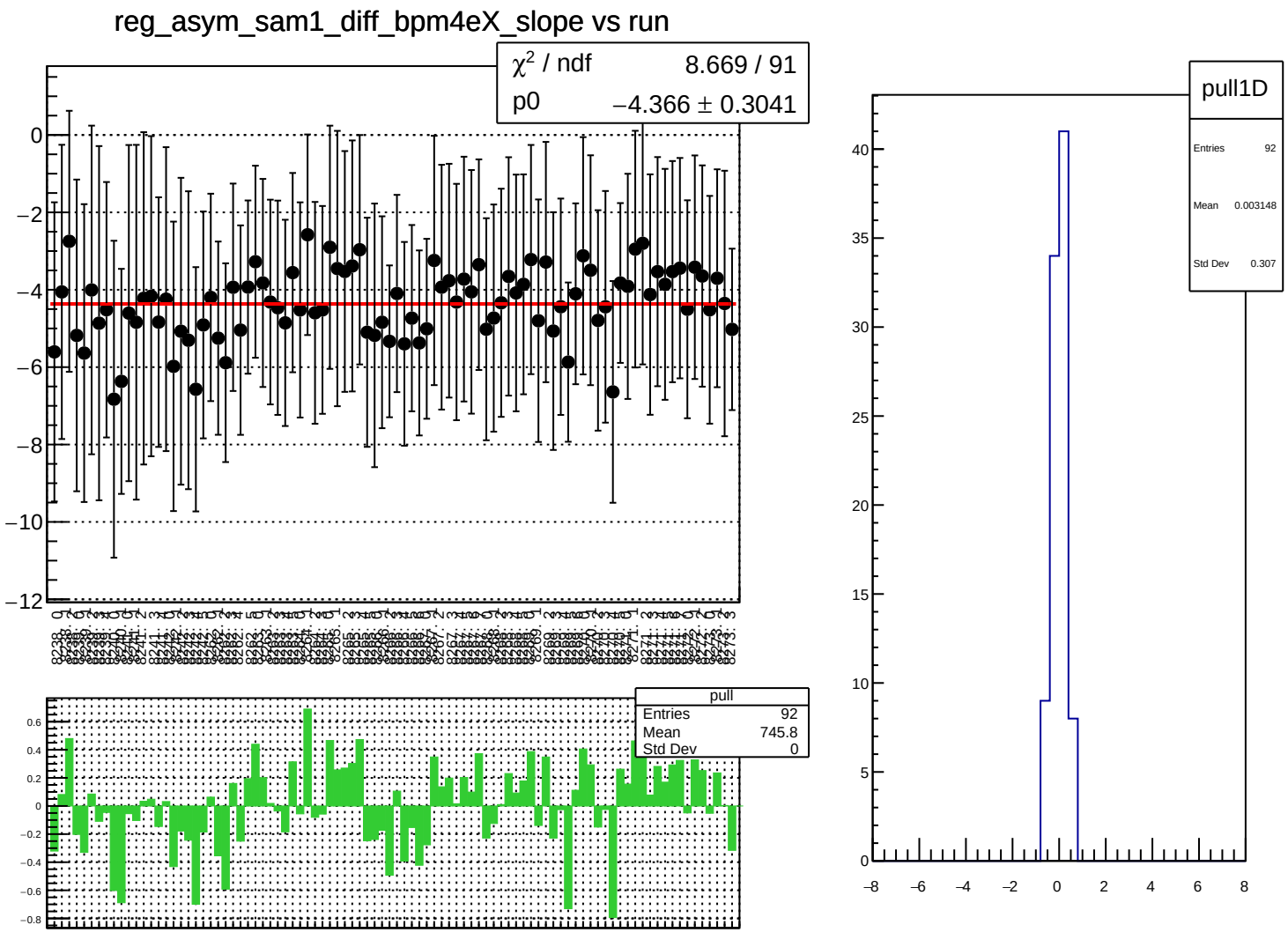

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 1.714e+05 / 91
p0 33.71 ± 0.02655
100
90
80
70
60
50
40
30
20

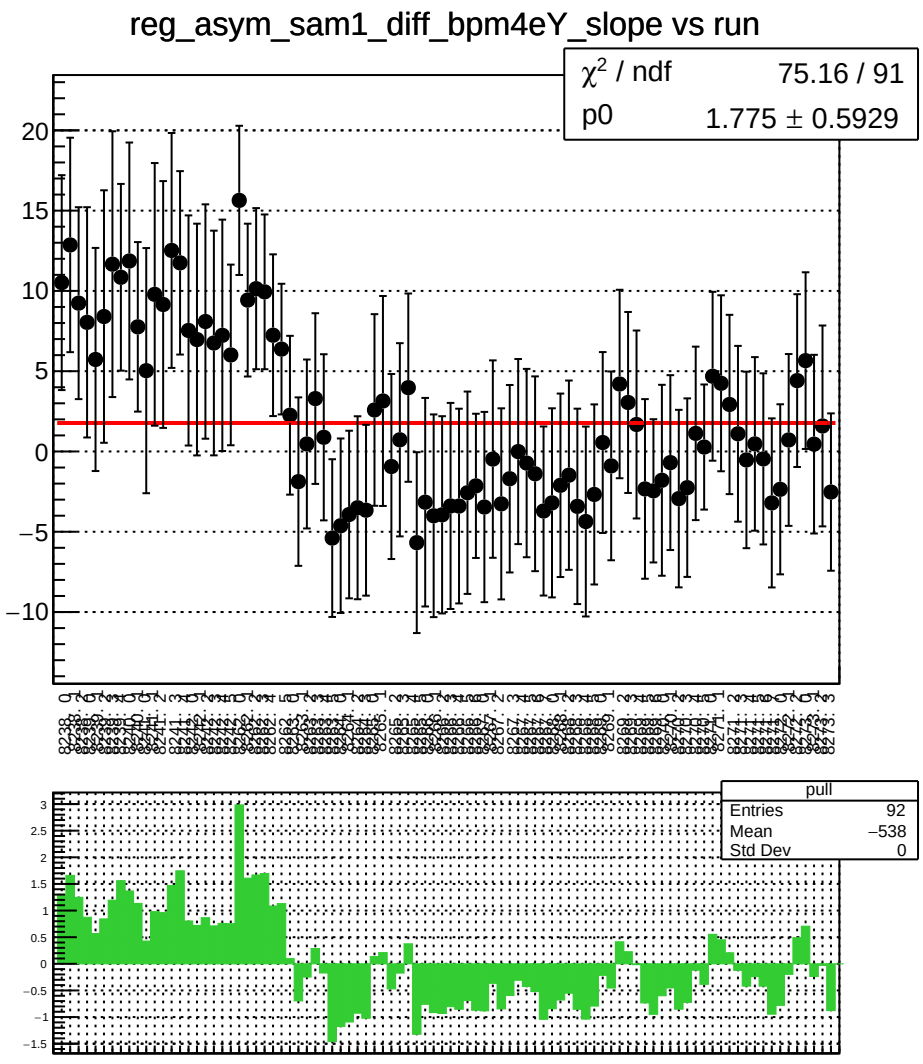

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 118.5 / 91
p0 3.365e−14 ± 1.08e−13
pull
Entries 92
Mean 608.6
Std Dev 0
pull1D
Entries 92
Mean −0.007252
Std Dev 1.135

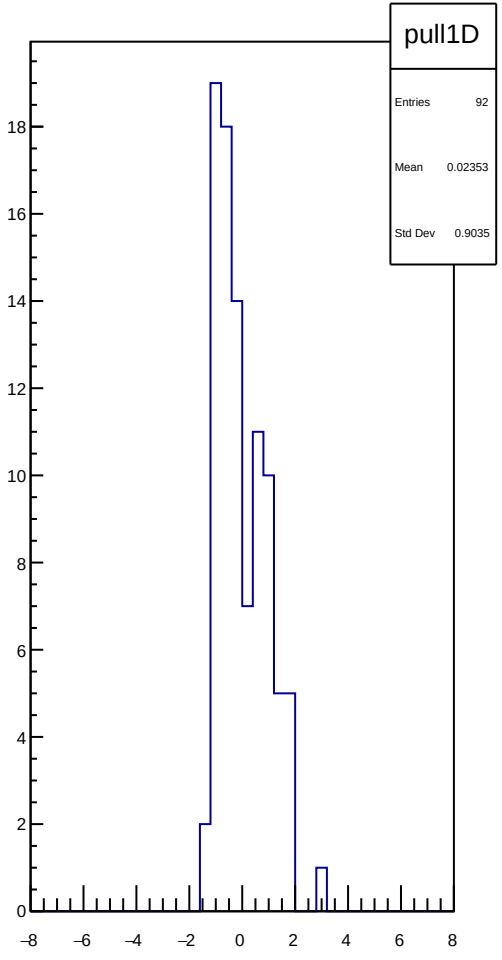

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.095e+05 / 91
p0 8.952e−11 ± 7.639e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

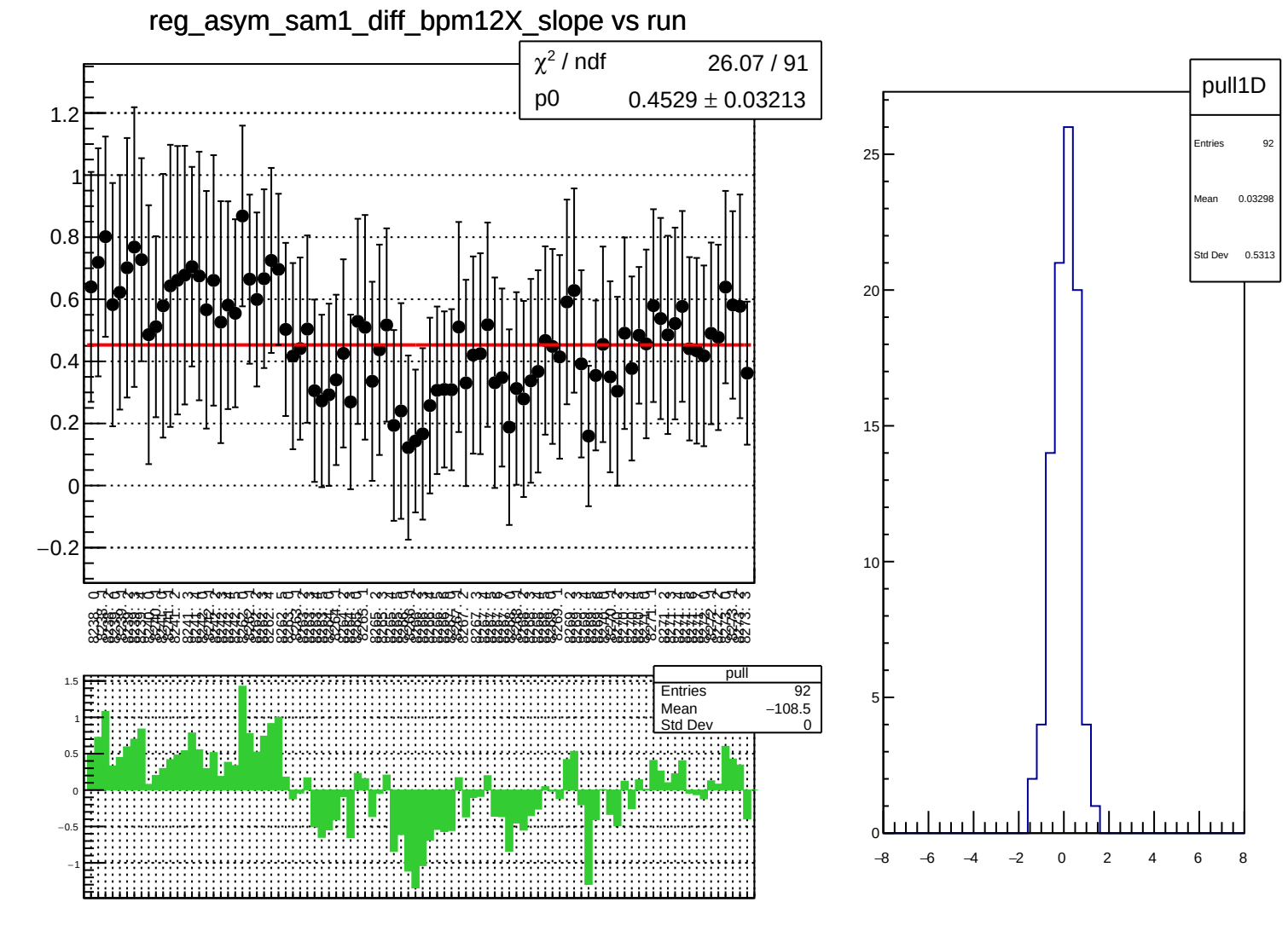

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 10.52 / 91
p0 −3.333 ± 0.2672
pull
Entries 92
Mean −537.4
Std Dev 0
pull1D
Entries 92
Mean 0.006925
Std Dev 0.3381

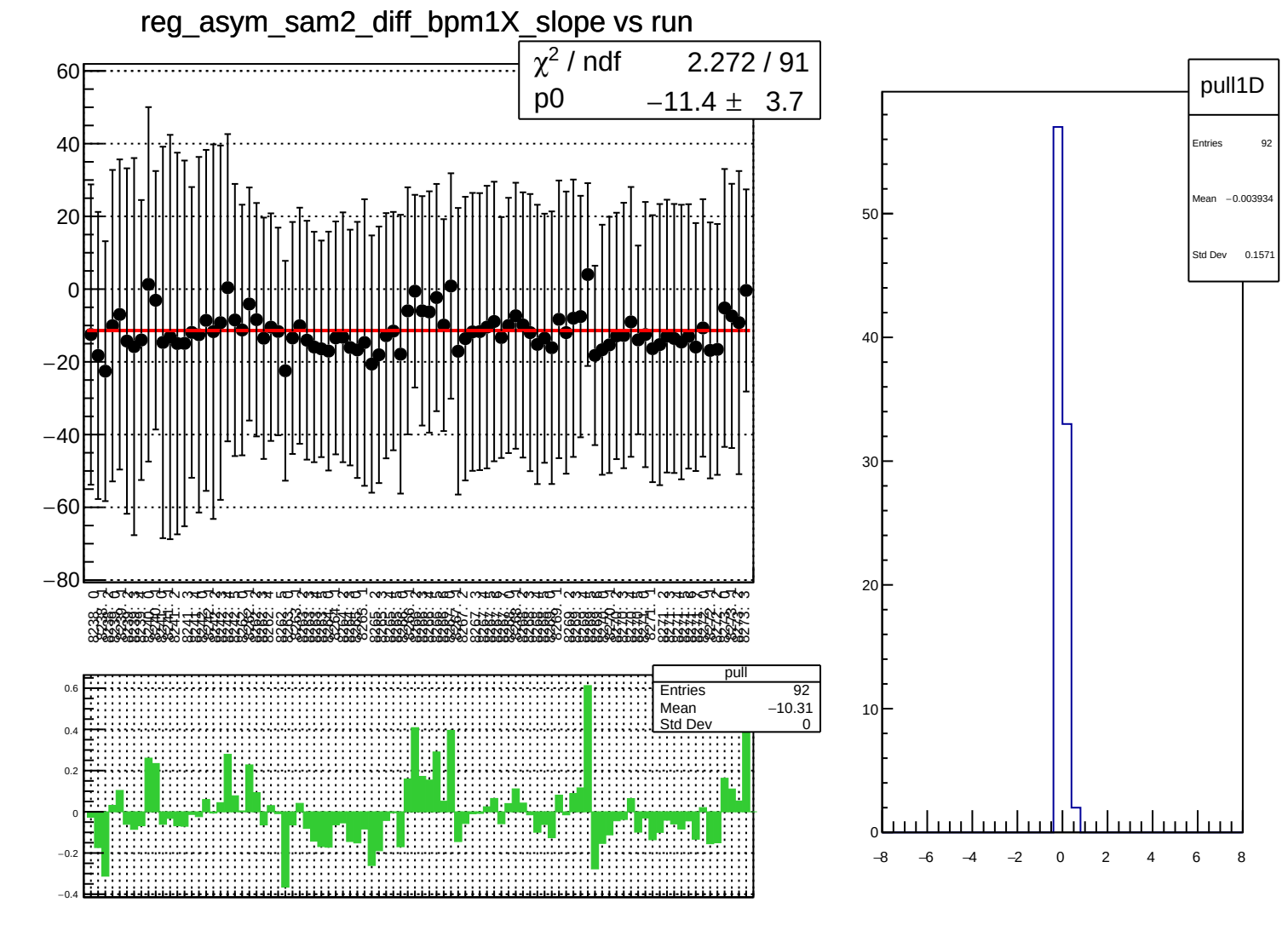

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 73.15 / 91
p0 −44.55 ± 0.5693
pull
Entries 92
Mean −569.4
Std Dev 0
pull1D
Entries 92
Mean −0.02333
Std Dev 0.8914

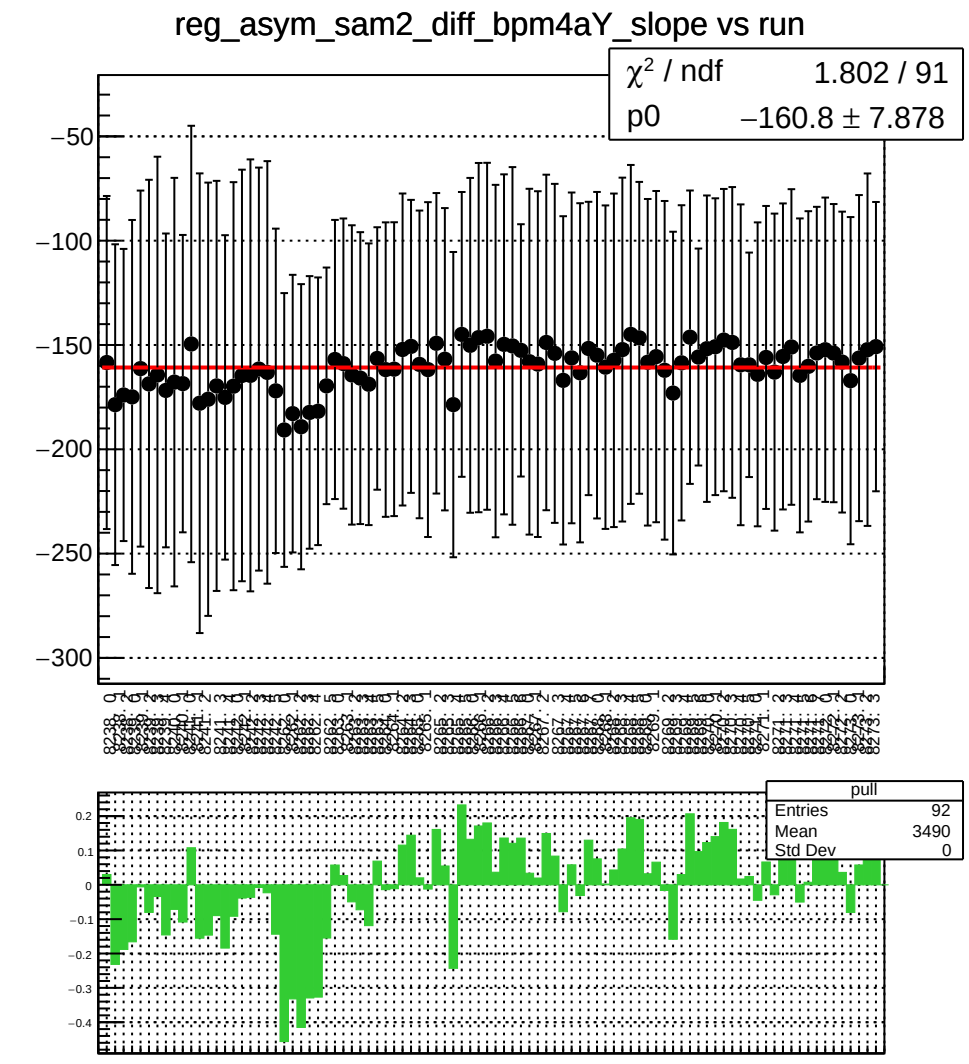

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 8.669 / 91
p0 −4.366 ± 0.3041
pull
Entries 92
Mean 745.8
Std Dev 0
pull1D
Entries 92
Mean 0.003148
Std Dev 0.307

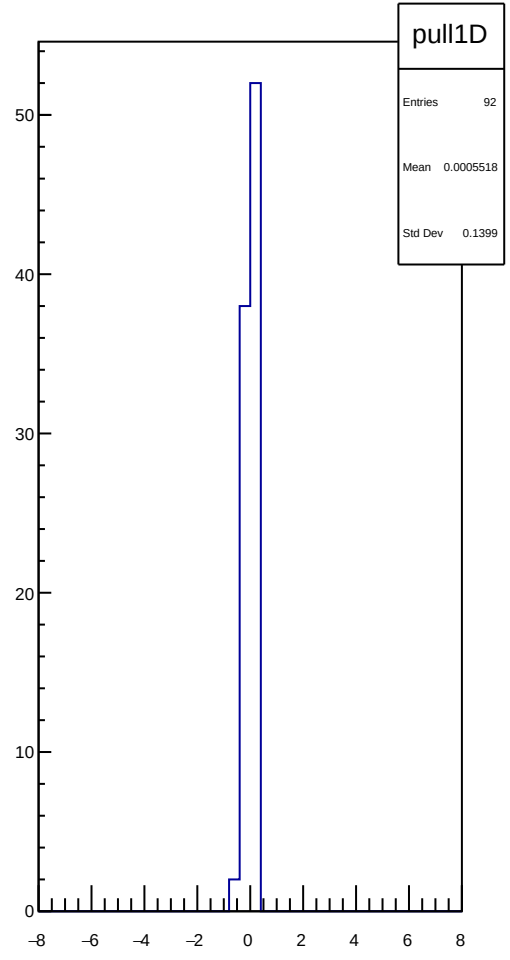

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 75.16 / 91
p0 1.775 ± 0.5929
pull
Entries 92
Mean −538
Std Dev 0

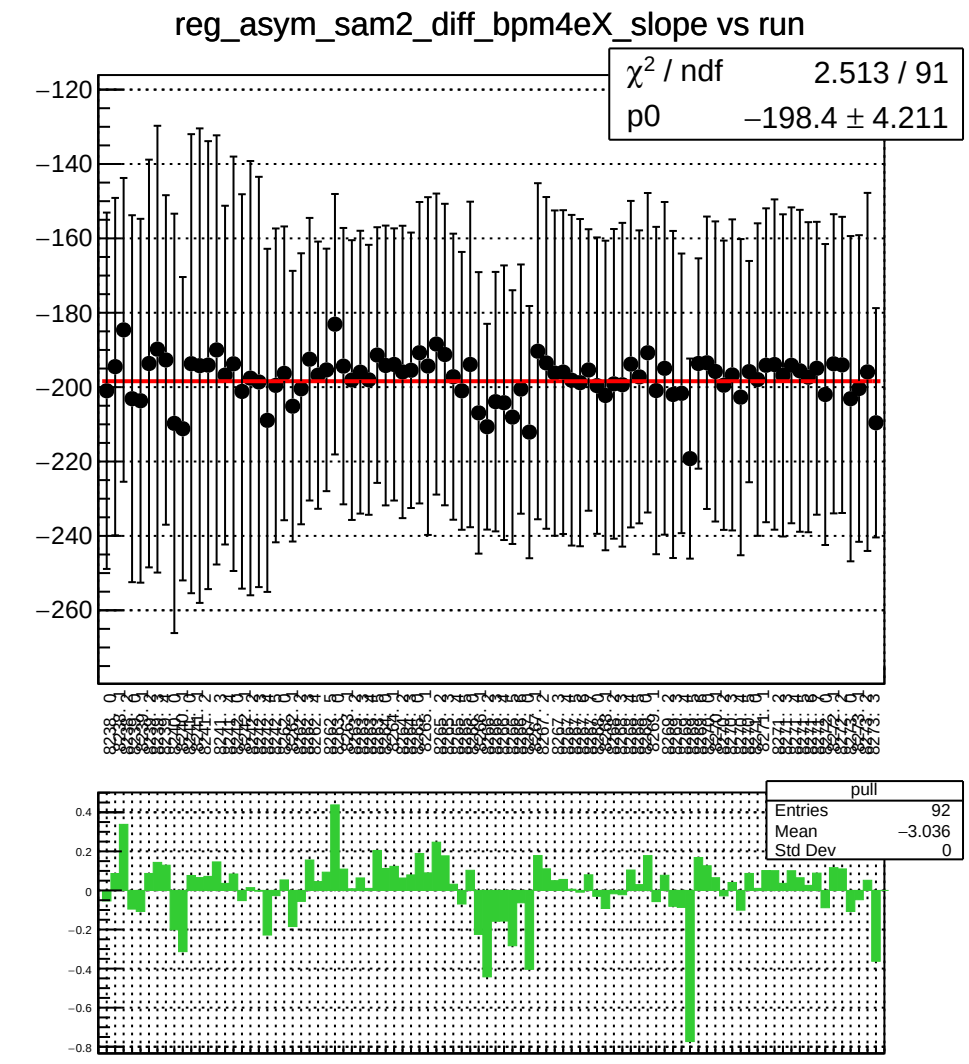

pull1D
Entries 92
Mean 0.02353
Std Dev 0.9035

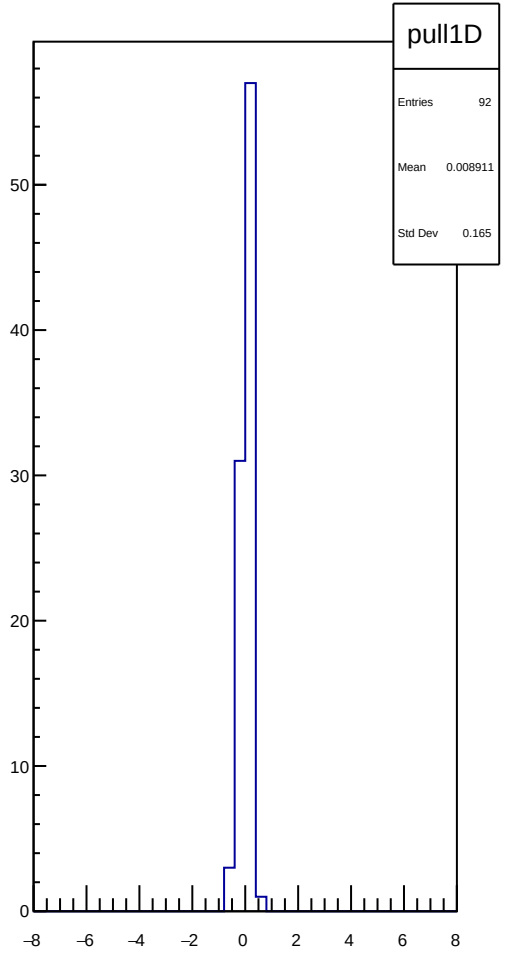

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 26.07 / 91
p0 0.4529 ± 0.03213
pull
Entries 92
Mean −108.5
Std Dev 0
pull1D
Entries 92
Mean 0.03298
Std Dev 0.5313

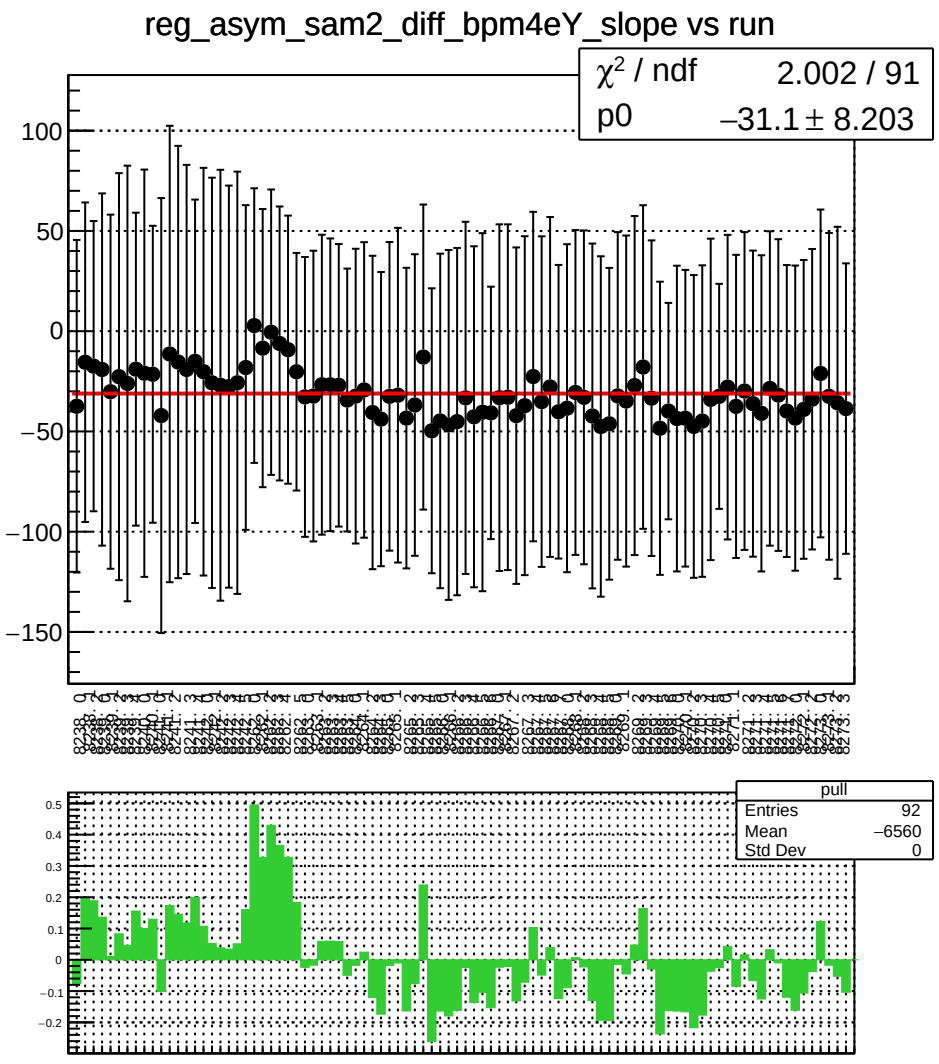

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 2.272 / 91
p0 −11.4 ± 3.7
pull
Entries 92
Mean −10.31
Std Dev 0
pull1D
Entries 92
Mean −0.003934
Std Dev 0.1571

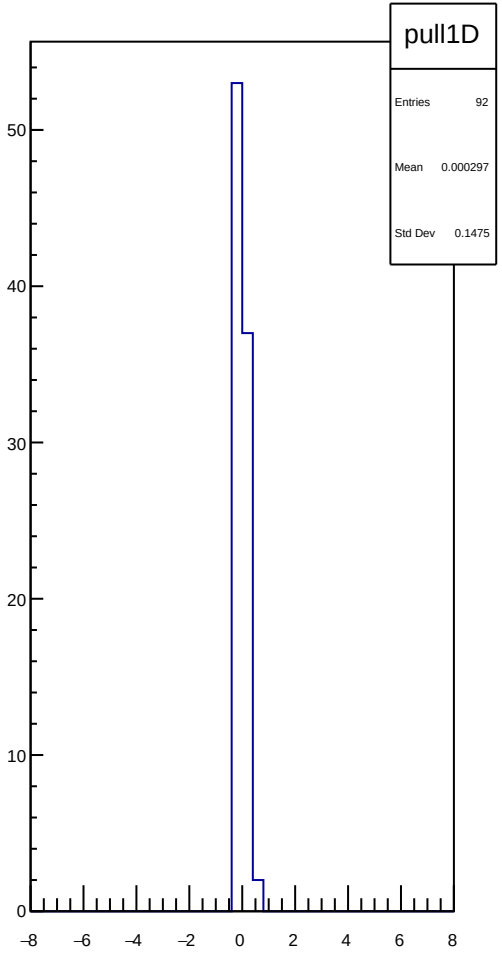

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 1.802 / 91
p0 −160.8 ± 7.878
pull
Entries 92
Mean 3490
Std Dev 0

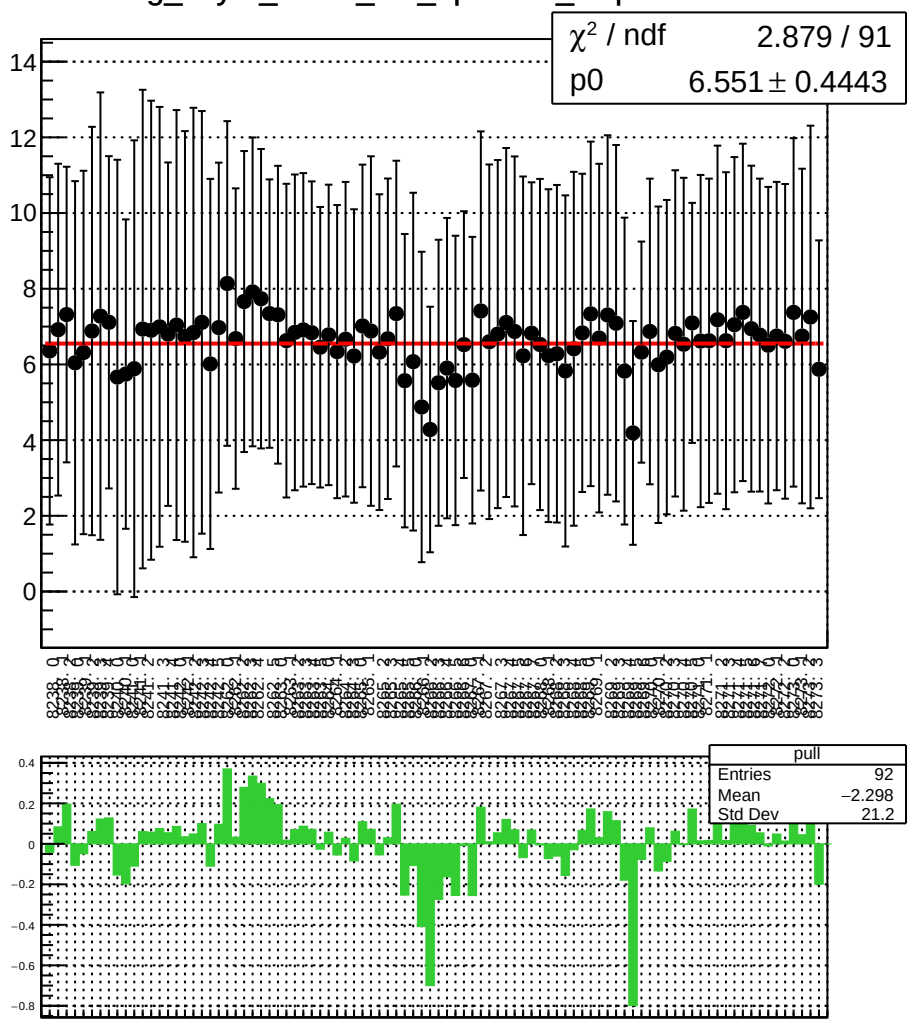

pull1D
Entries 92
Mean 0.0005518
Std Dev 0.1399

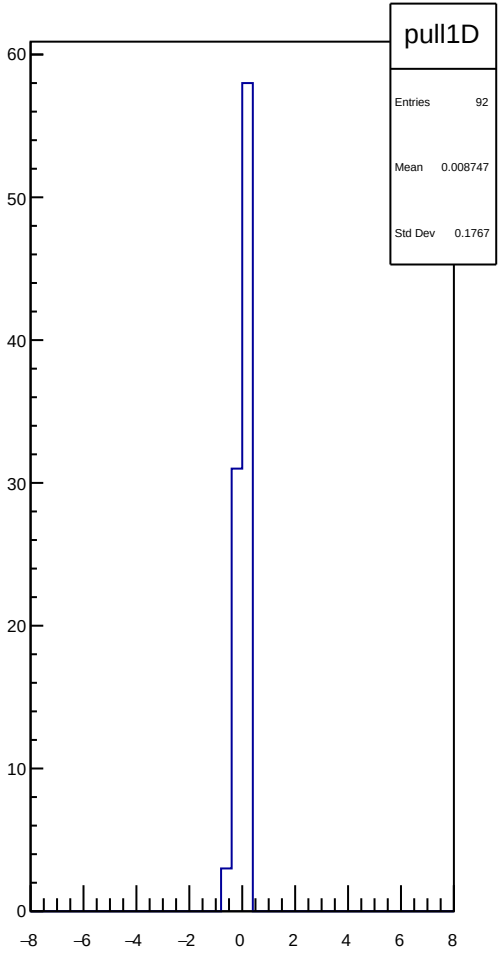

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 2.513 / 91
p0 −198.4 ± 4.211
pull
Entries 92
Mean −3.036
Std Dev 0

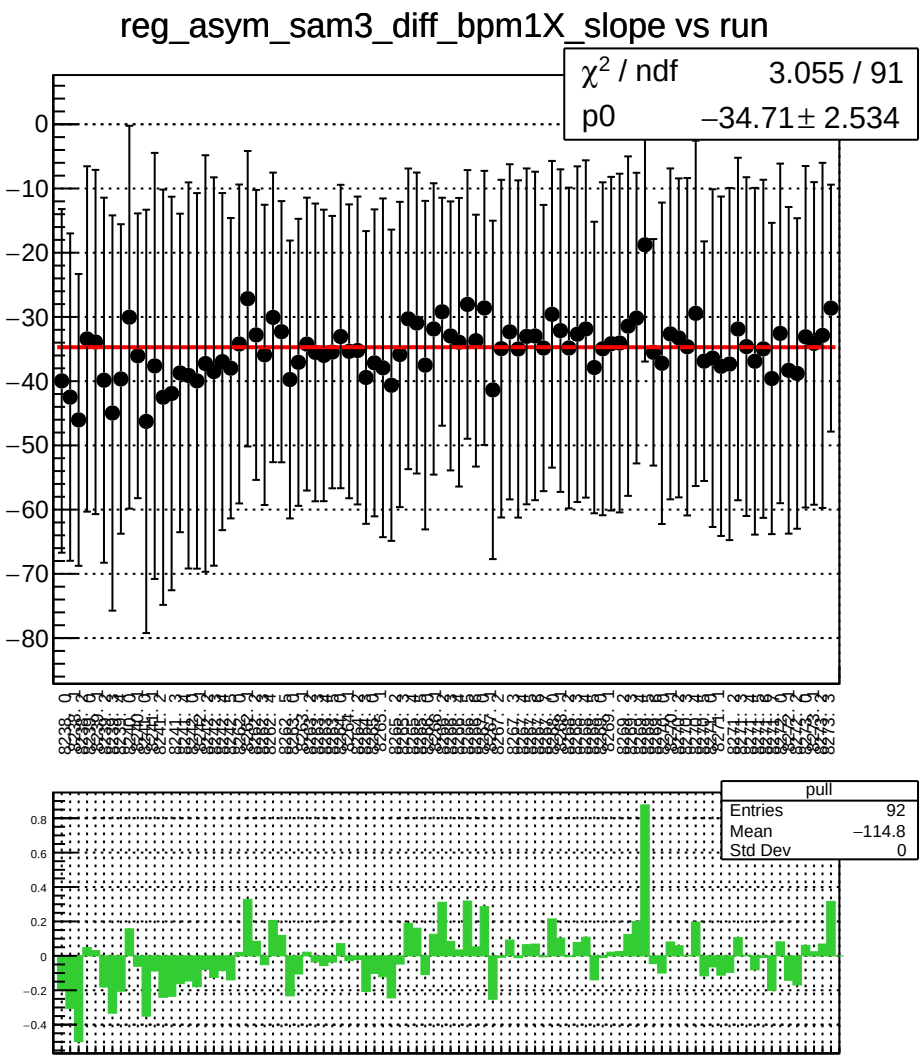

pull1D
Entries 92
Mean 0.008911
Std Dev 0.165

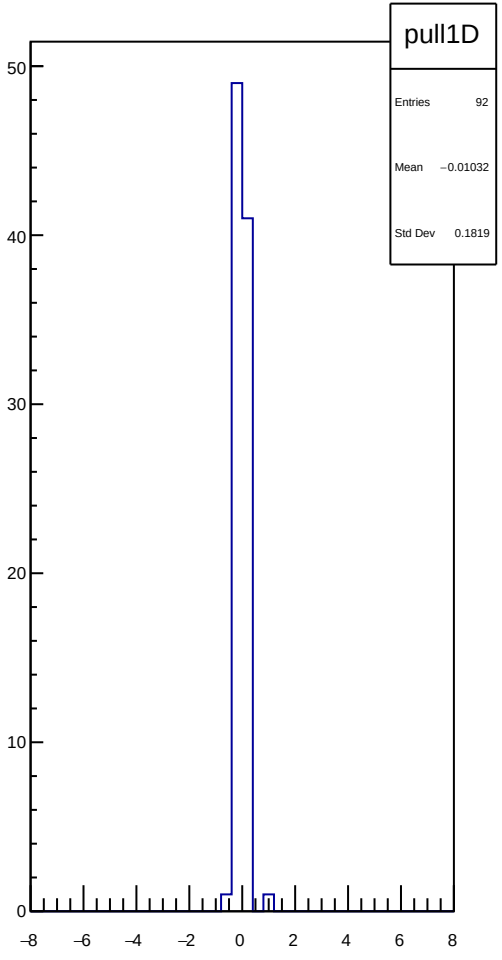

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 2.002 / 91
p0 −31.1 ± 8.203
pull
Entries 92
Mean −6560
Std Dev 0

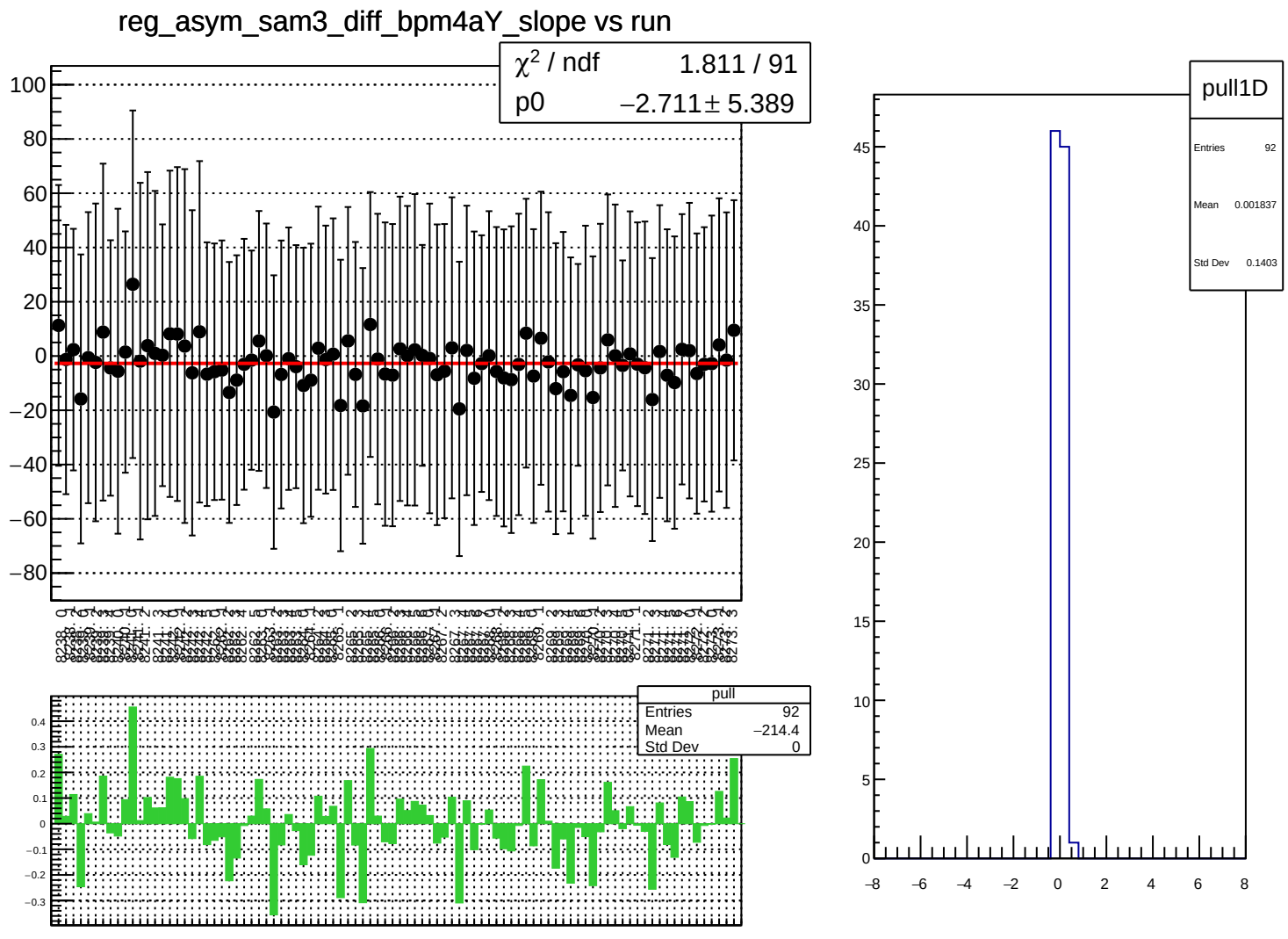

pull1D
Entries 92
Mean 0.000297
Std Dev 0.1475

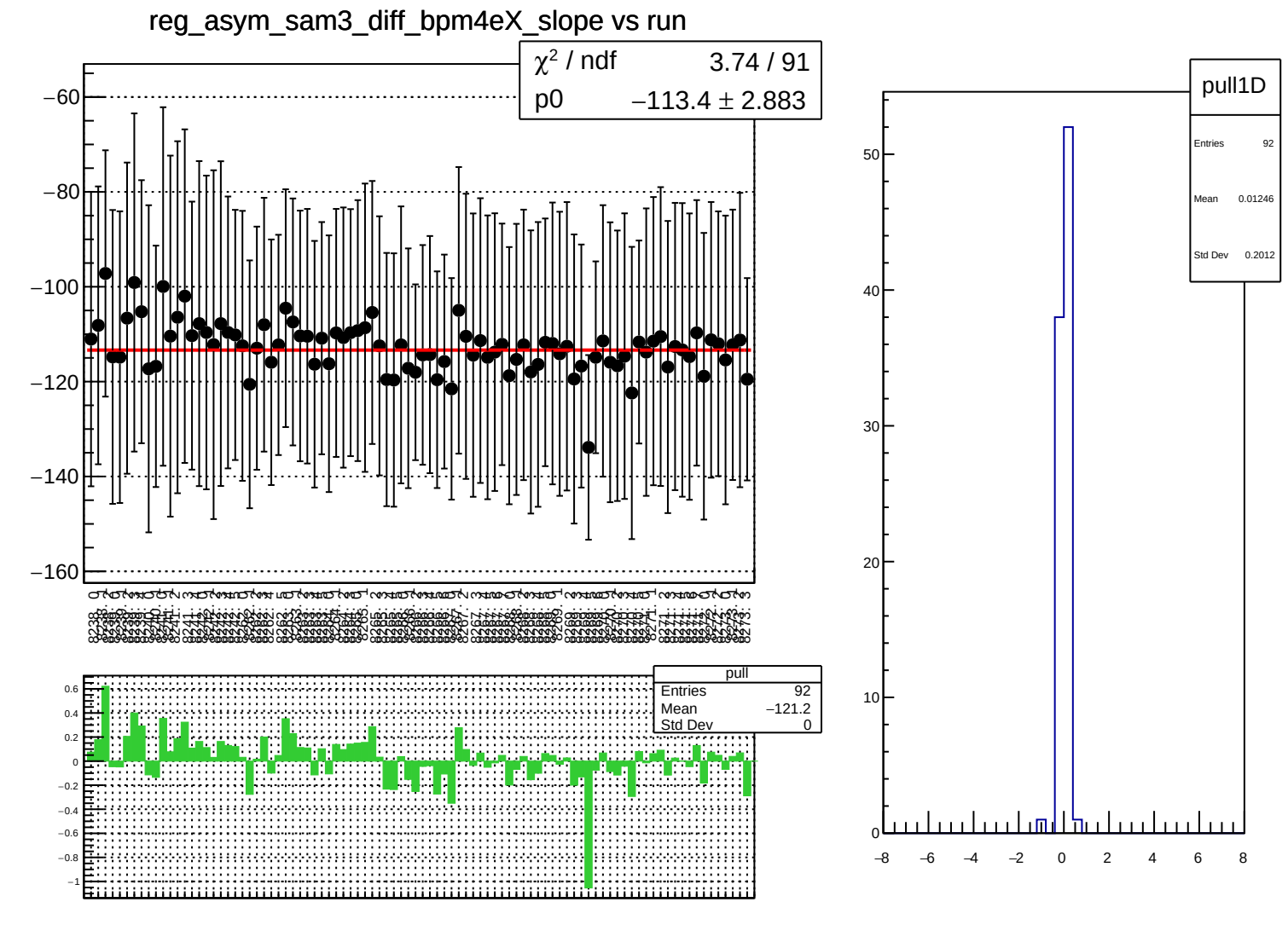

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 2.879 / 91
p0 6.551 ± 0.4443
pull
Entries 92
Mean −2.298
Std Dev 21.2

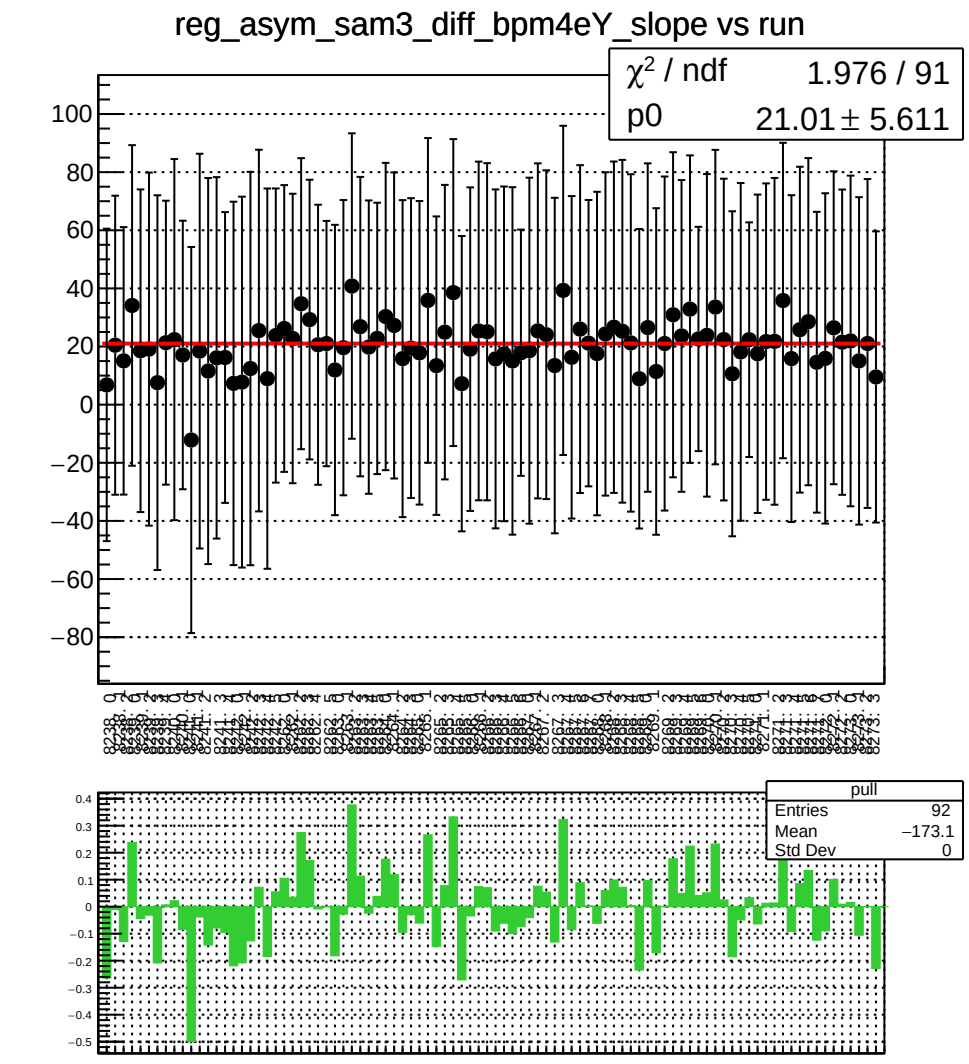

pull1D
Entries 92
Mean 0.008747
Std Dev 0.1767

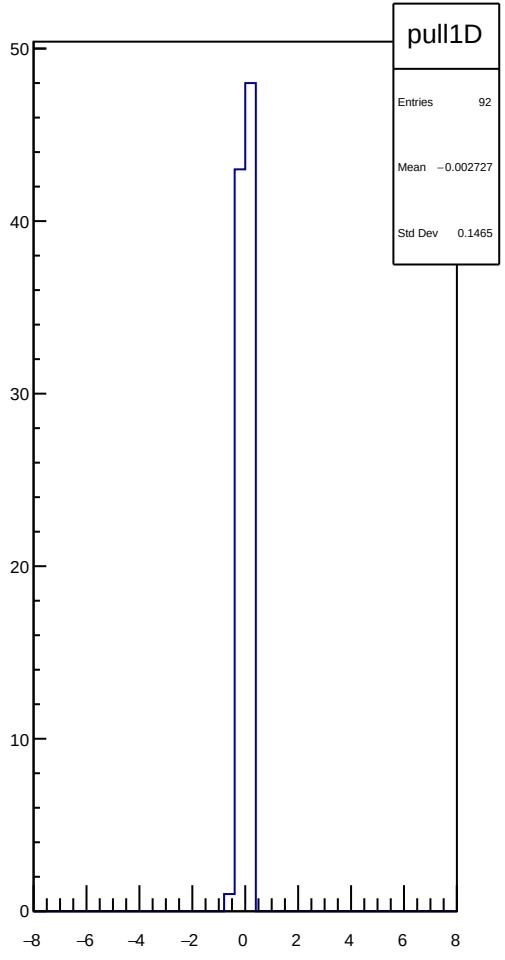

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 3.055 / 91
p0 −34.71 ± 2.534
pull
Entries 92
Mean −114.8
Std Dev 0

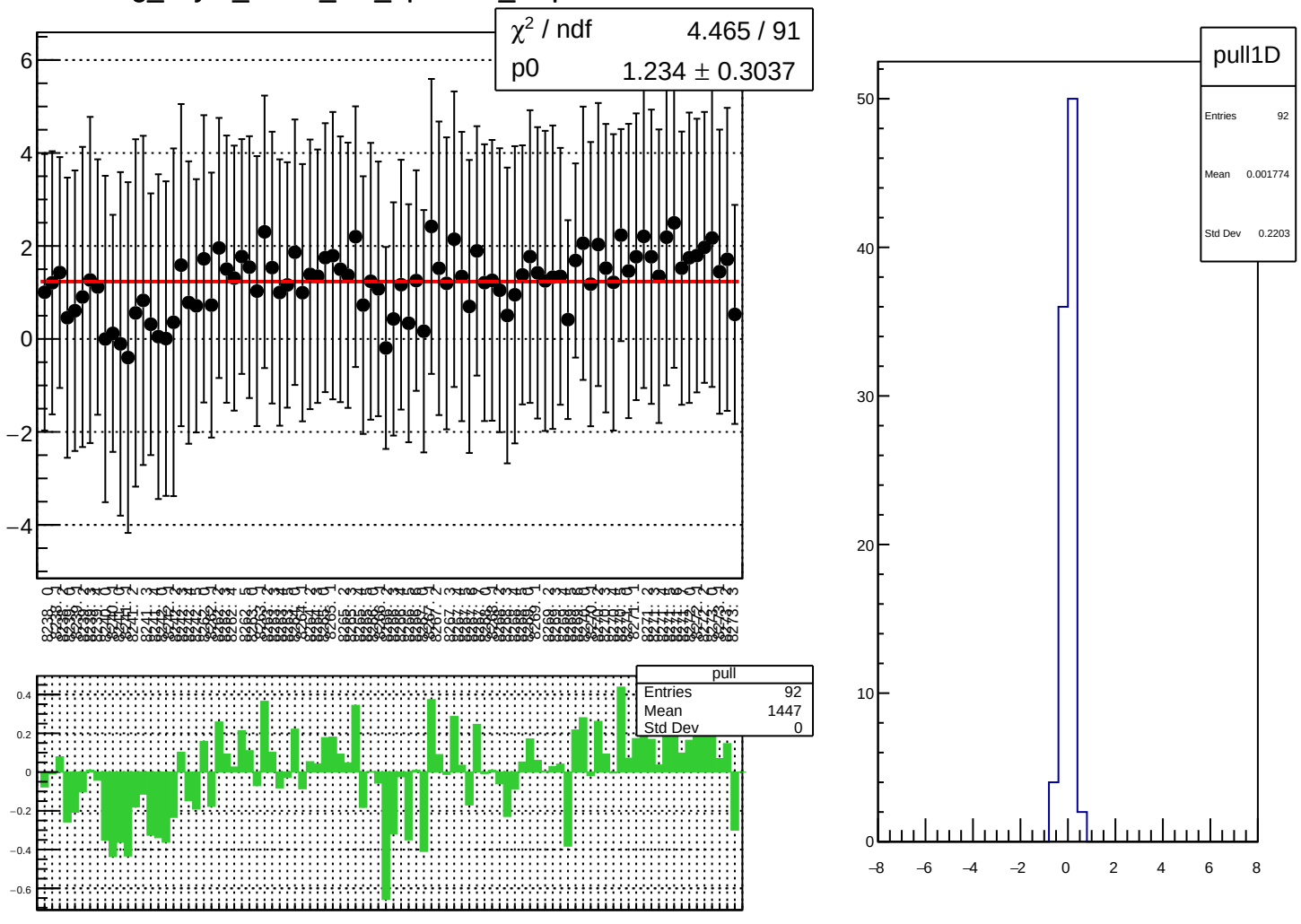

pull1D
Entries 92
Mean −0.01032
Std Dev 0.1819

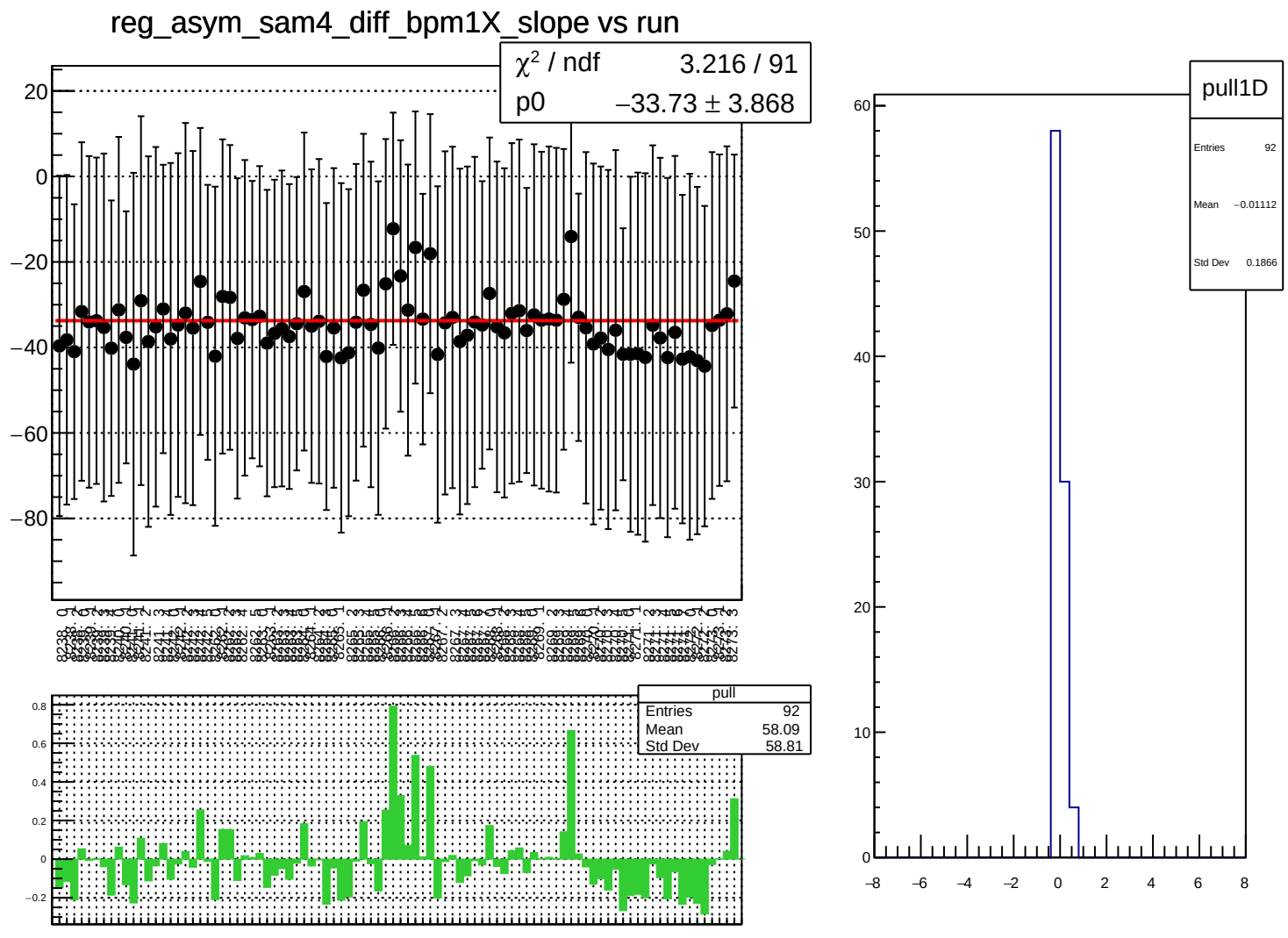

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.811 / 91
p0 −2.711 ± 5.389
pull
Entries 92
Mean −214.4
Std Dev 0
pull1D
Entries 92
Mean 0.001837
Std Dev 0.1403

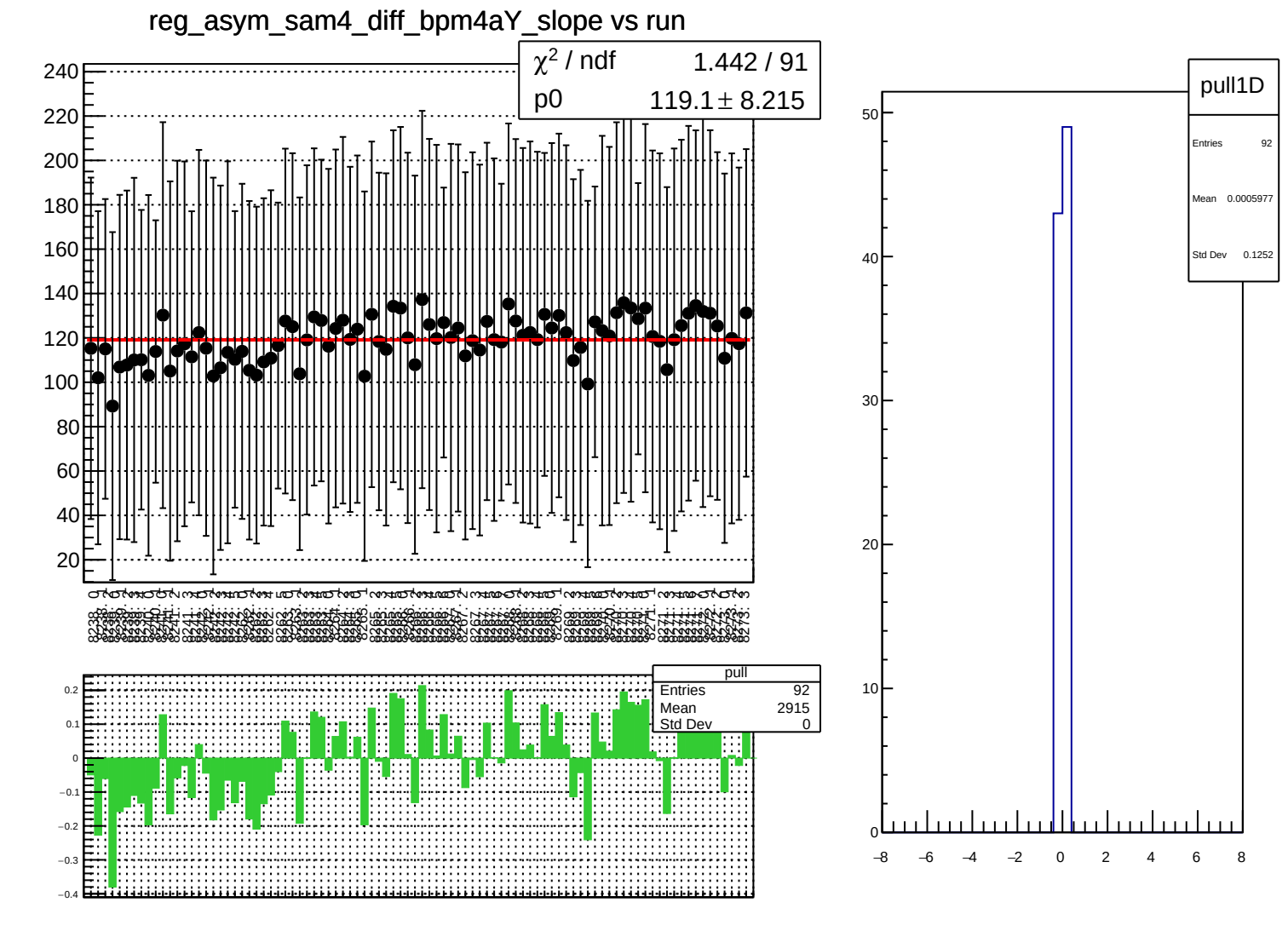

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 3.74 / 91
p0 −113.4 ± 2.883
pull
Entries 92
Mean −121.2
Std Dev 0
pull1D
Entries 92
Mean 0.01246
Std Dev 0.2012

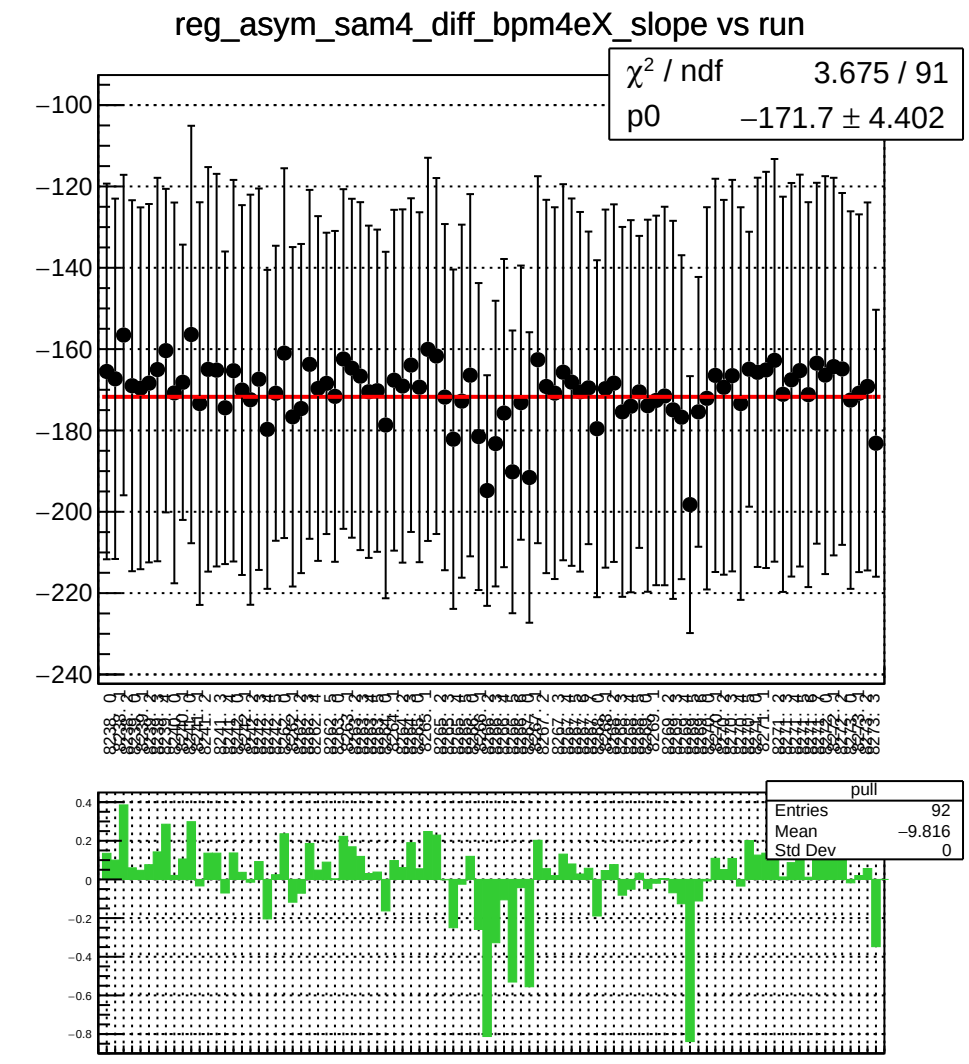

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 1.976 / 91
p0 21.01 ± 5.611
pull
Entries 92
Mean −173.1
Std Dev 0

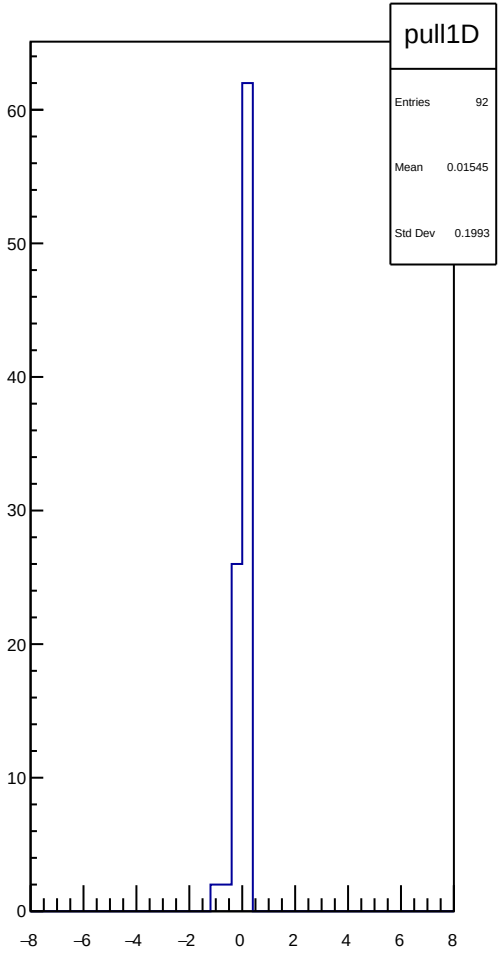

pull1D
Entries 92
Mean −0.002727
Std Dev 0.1465

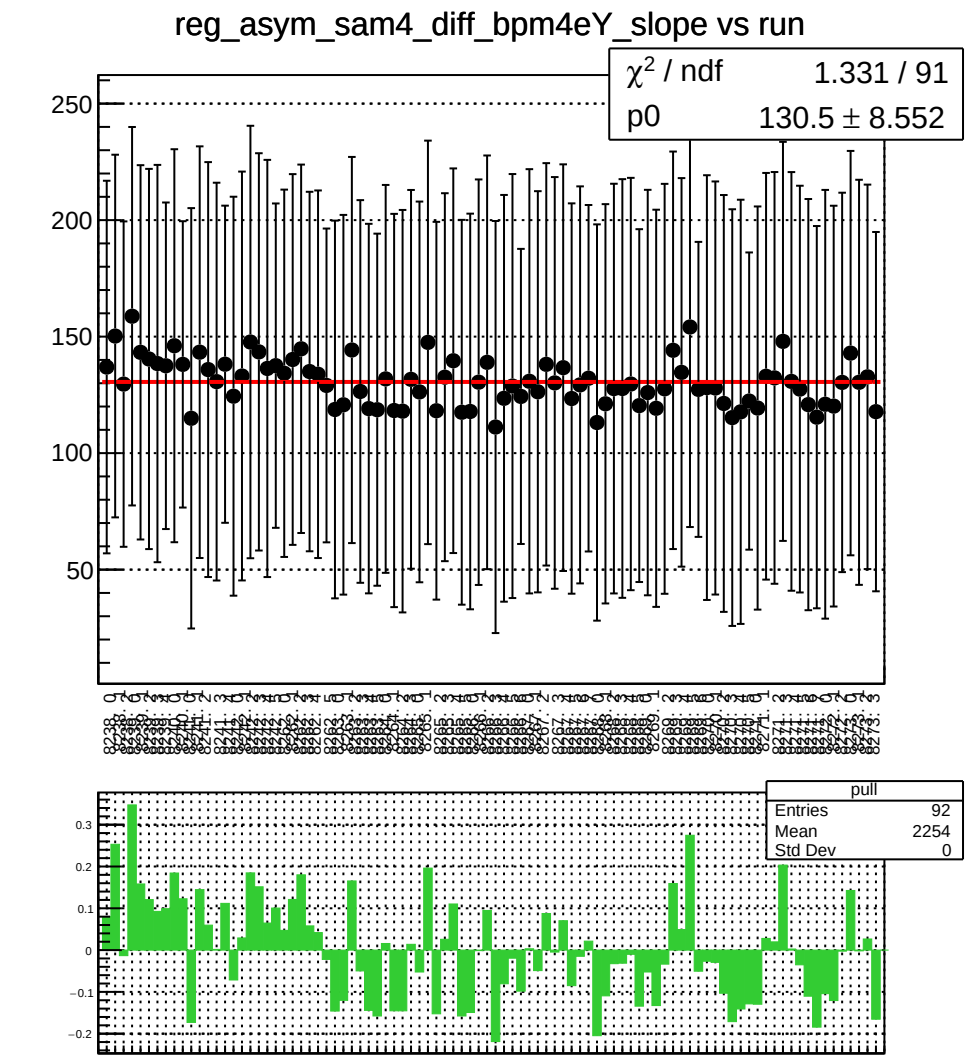

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 4.465 / 91
p0 1.234 ± 0.3037
pull
Entries 92
Mean 1447
Std Dev 0
pull1D
Entries 92
Mean 0.001774
Std Dev 0.2203

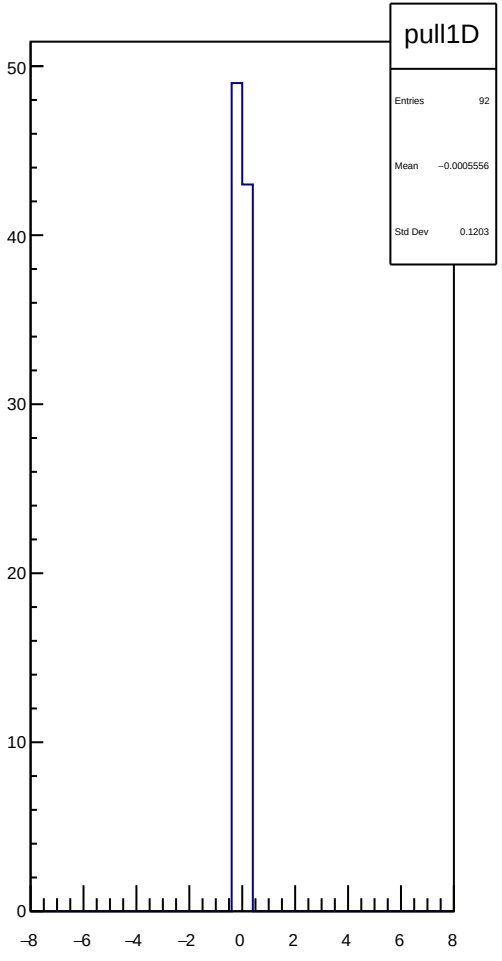

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 3.216 / 91
p0 −33.73 ± 3.868
pull
Entries 92
Mean 58.09
Std Dev 58.81
pull1D
Entries 92
Mean −0.01112
Std Dev 0.1866

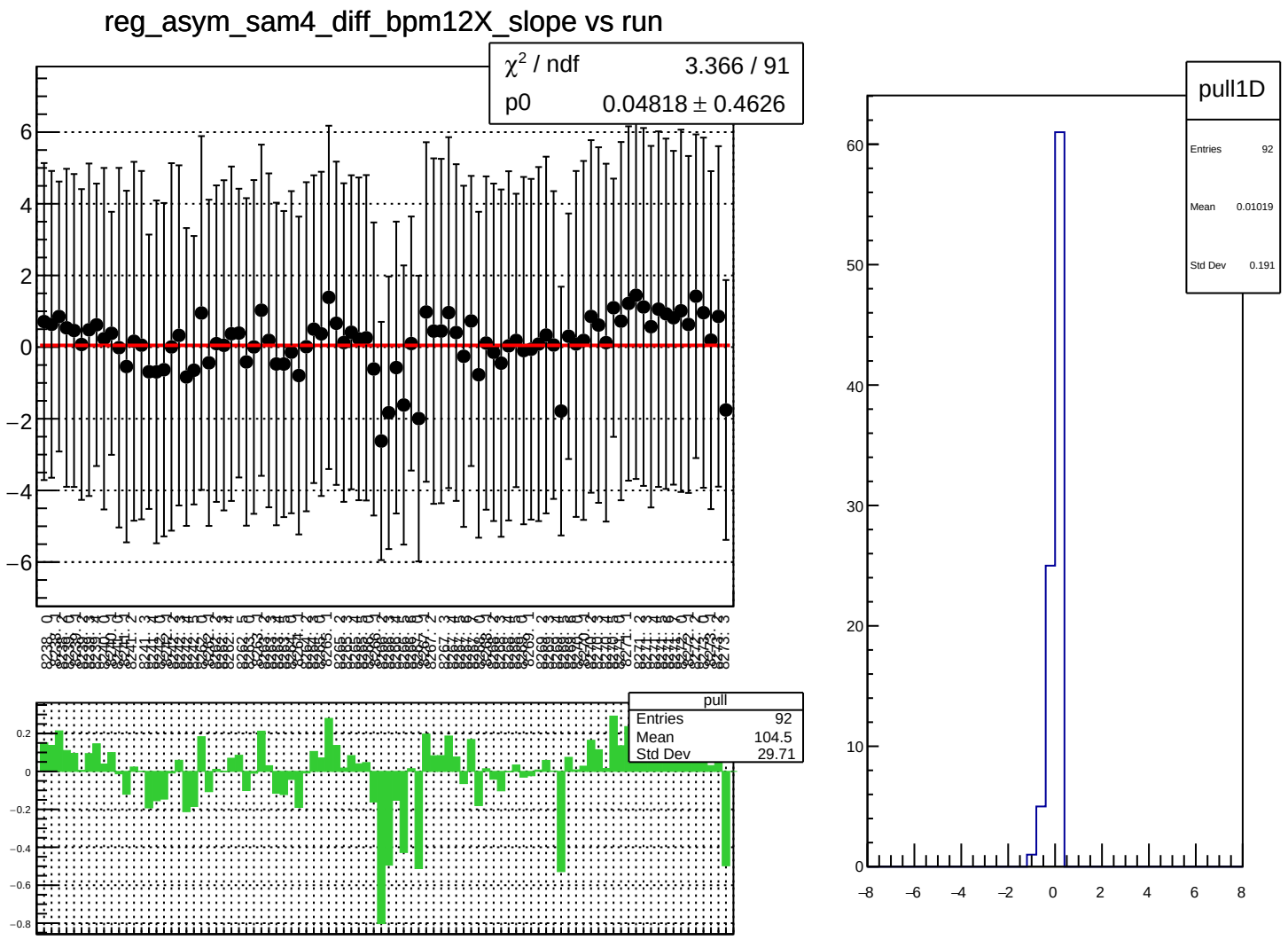

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 1.442 / 91
p0 119.1 ± 8.215
pull
Entries 92
Mean 2915
Std Dev 0
pull1D
Entries 92
Mean 0.0005977
Std Dev 0.1252

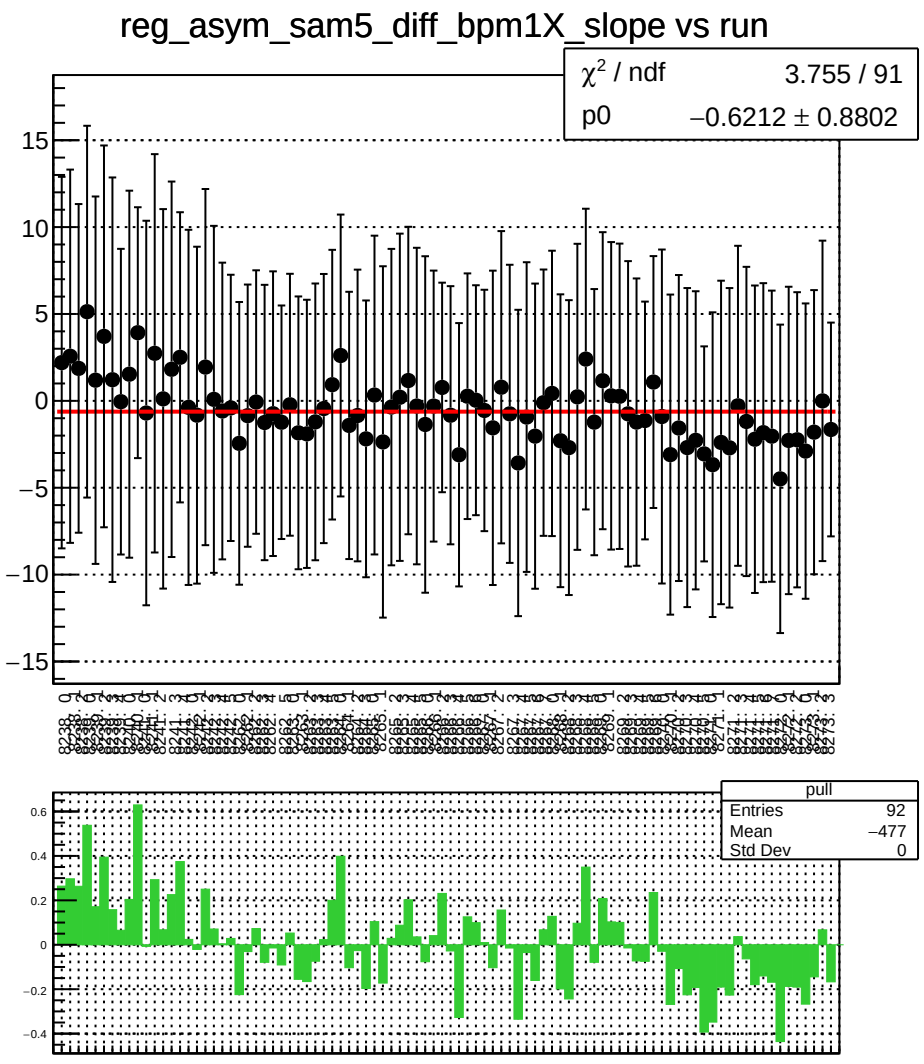

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 3.675 / 91
p0 −171.7 ± 4.402
pull
Entries 92
Mean −9.816
Std Dev 0

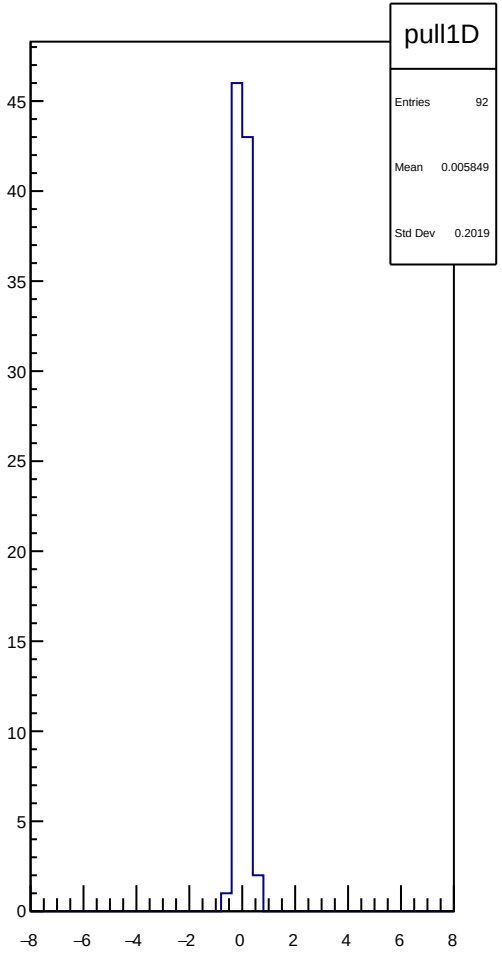

pull1D
Entries 92
Mean 0.01545
Std Dev 0.1993

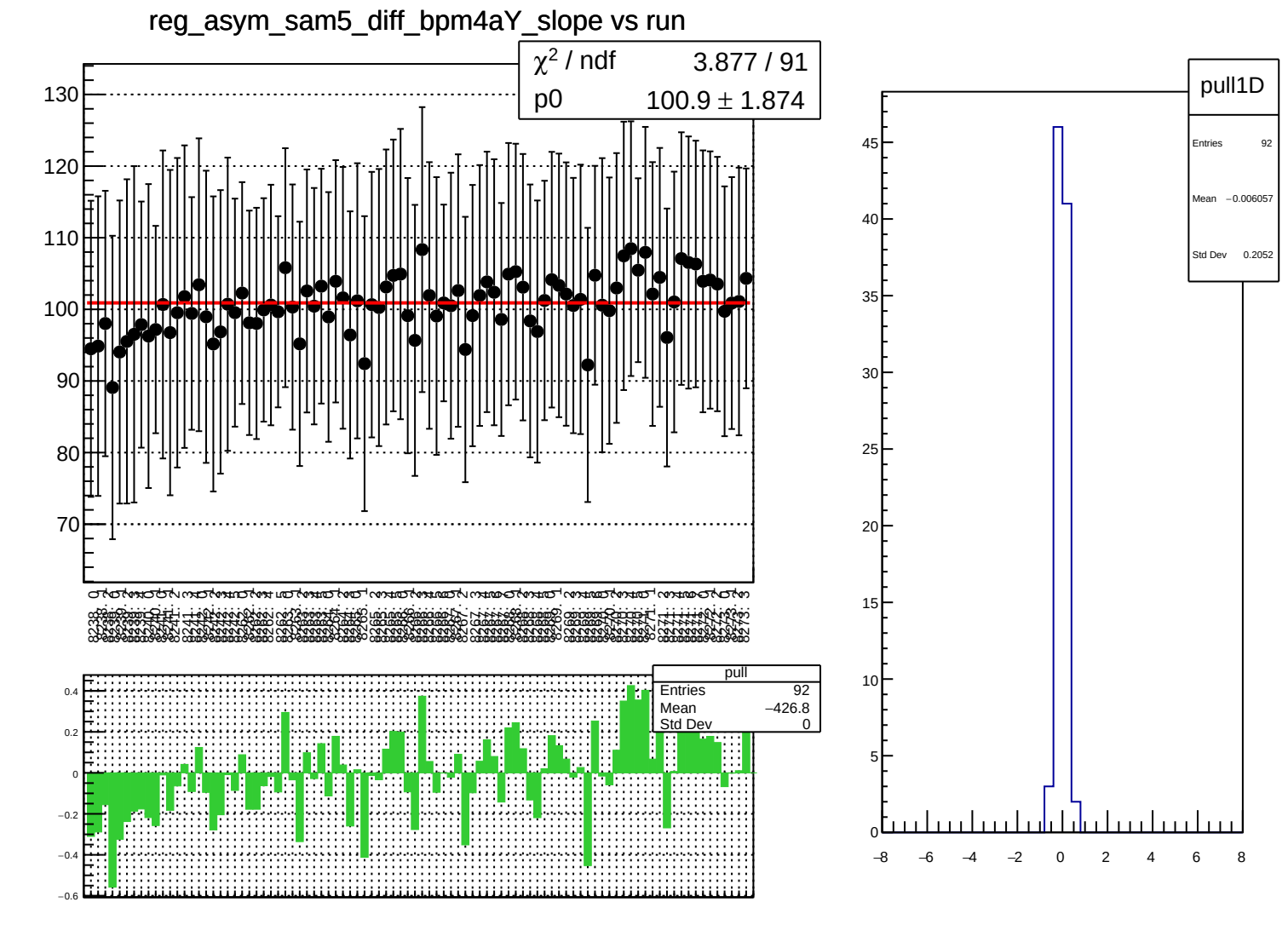

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 1.331 / 91
p0 130.5 ± 8.552
250
200
150
100
50
pull
Entries 92
Mean 2254
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2

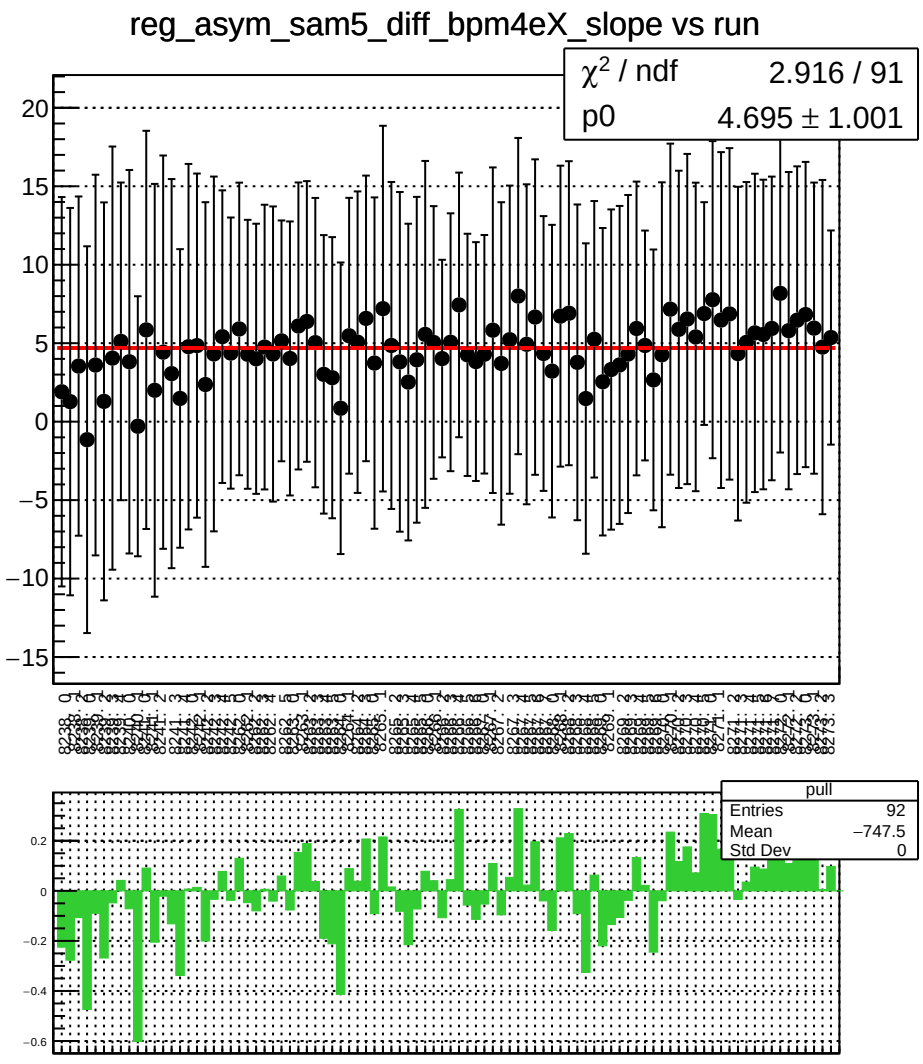

pull1D
Entries 92
Mean −0.0005556
Std Dev 0.1203
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

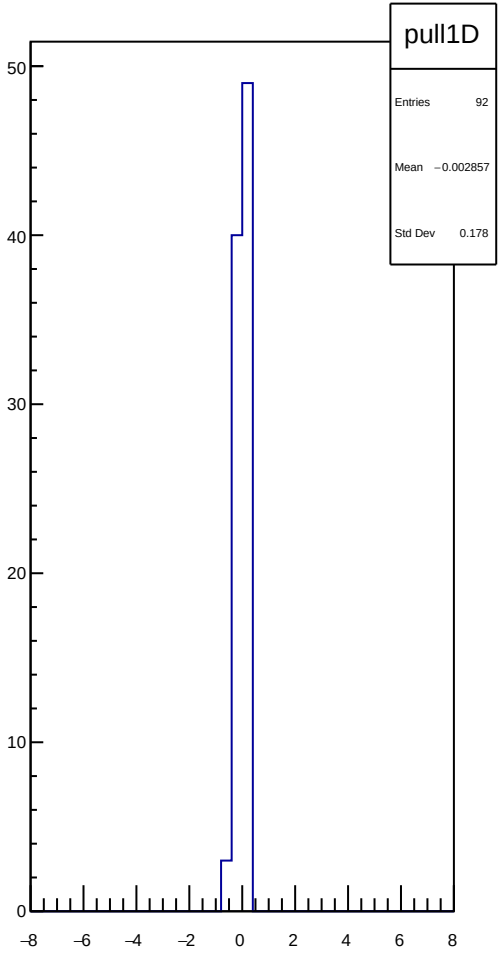

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 3.366 / 91
p0 0.04818 ± 0.4626
pull
Entries 92
Mean 104.5
Std Dev 29.71
pull1D
Entries 92
Mean 0.01019
Std Dev 0.191

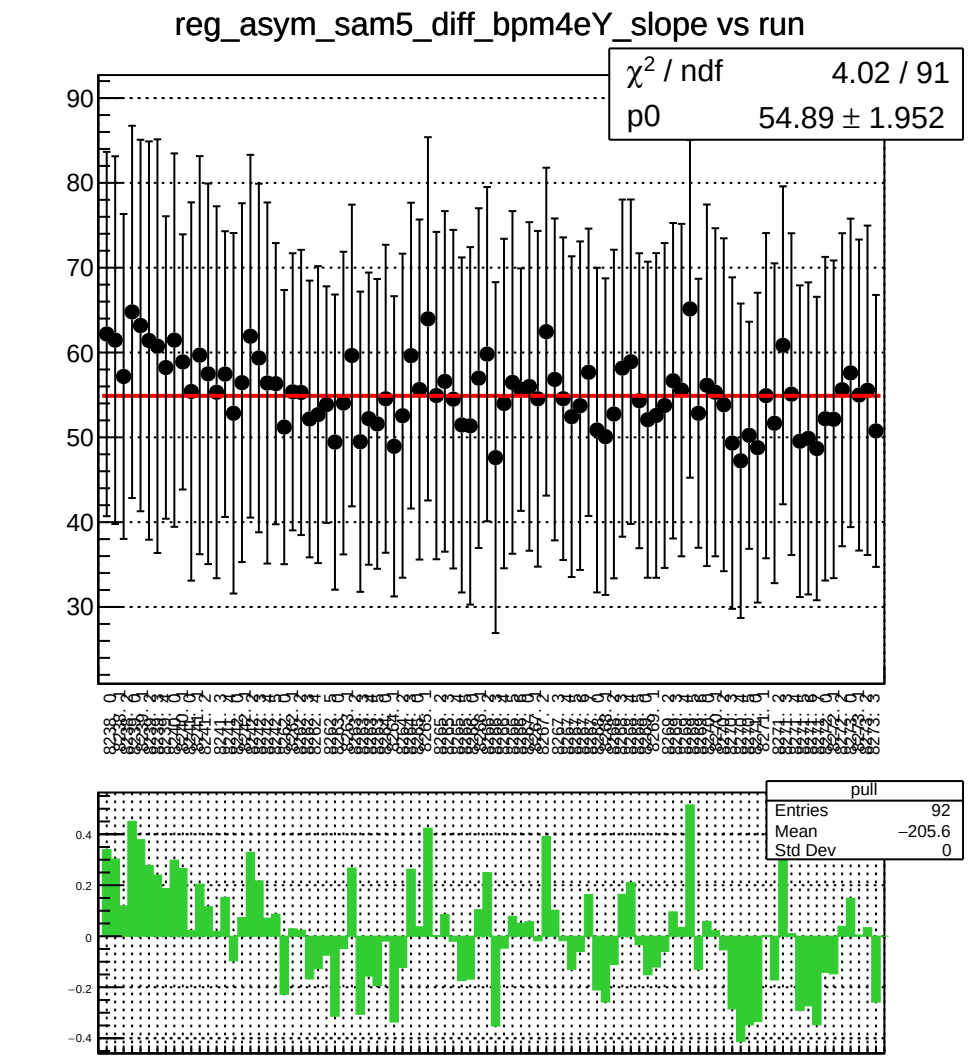

reg_asym_sam5_diff_bpm1X_slope vs run
$\chi^2$ / ndf 3.755 / 91
p0 −0.6212 ± 0.8802
pull
Entries 92
Mean −477
Std Dev 0

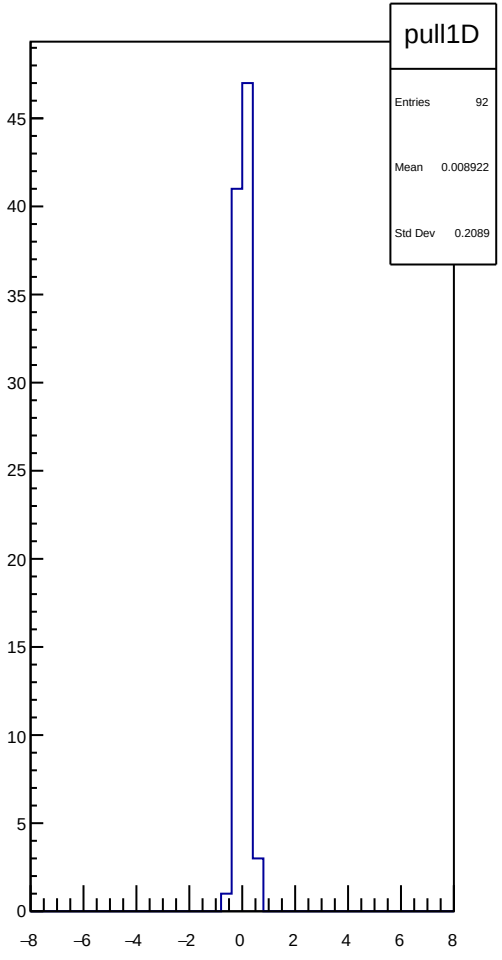

pull1D
Entries 92
Mean 0.005849
Std Dev 0.2019

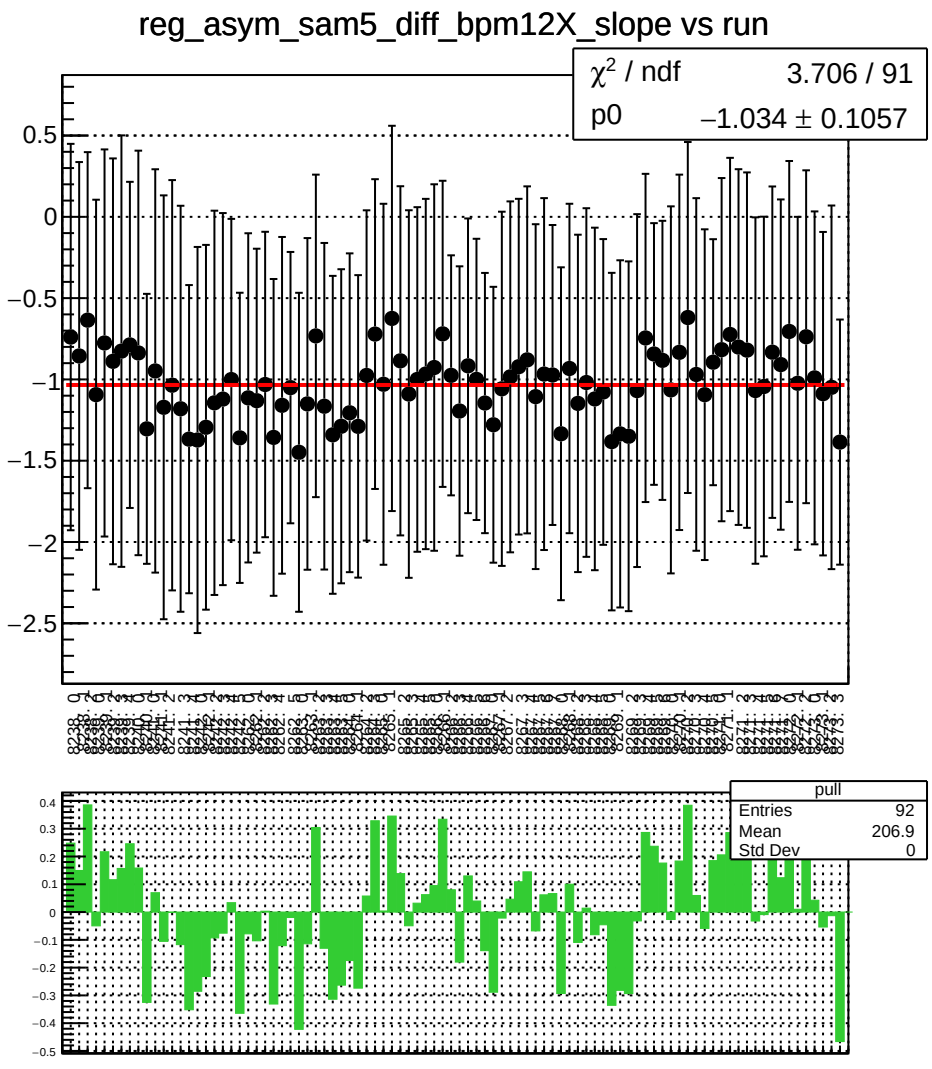

reg_asym_sam5_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 3.877 / 91
p0 100.9 ± 1.874
pull
Entries 92
Mean −426.8
Std Dev 0
pull1D
Entries 92
Mean −0.006057
Std Dev 0.2052

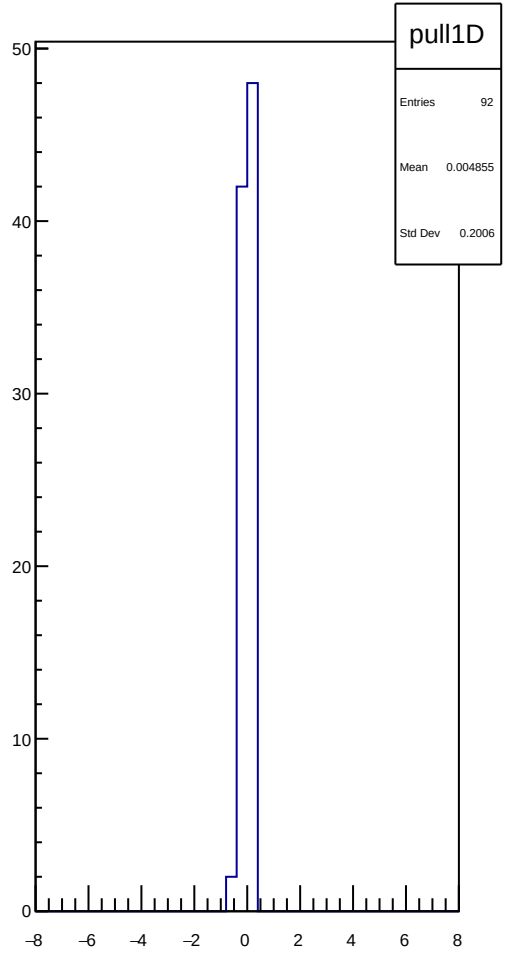

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 2.916 / 91
p0 4.695 ± 1.001
pull
Entries 92
Mean −747.5
Std Dev 0

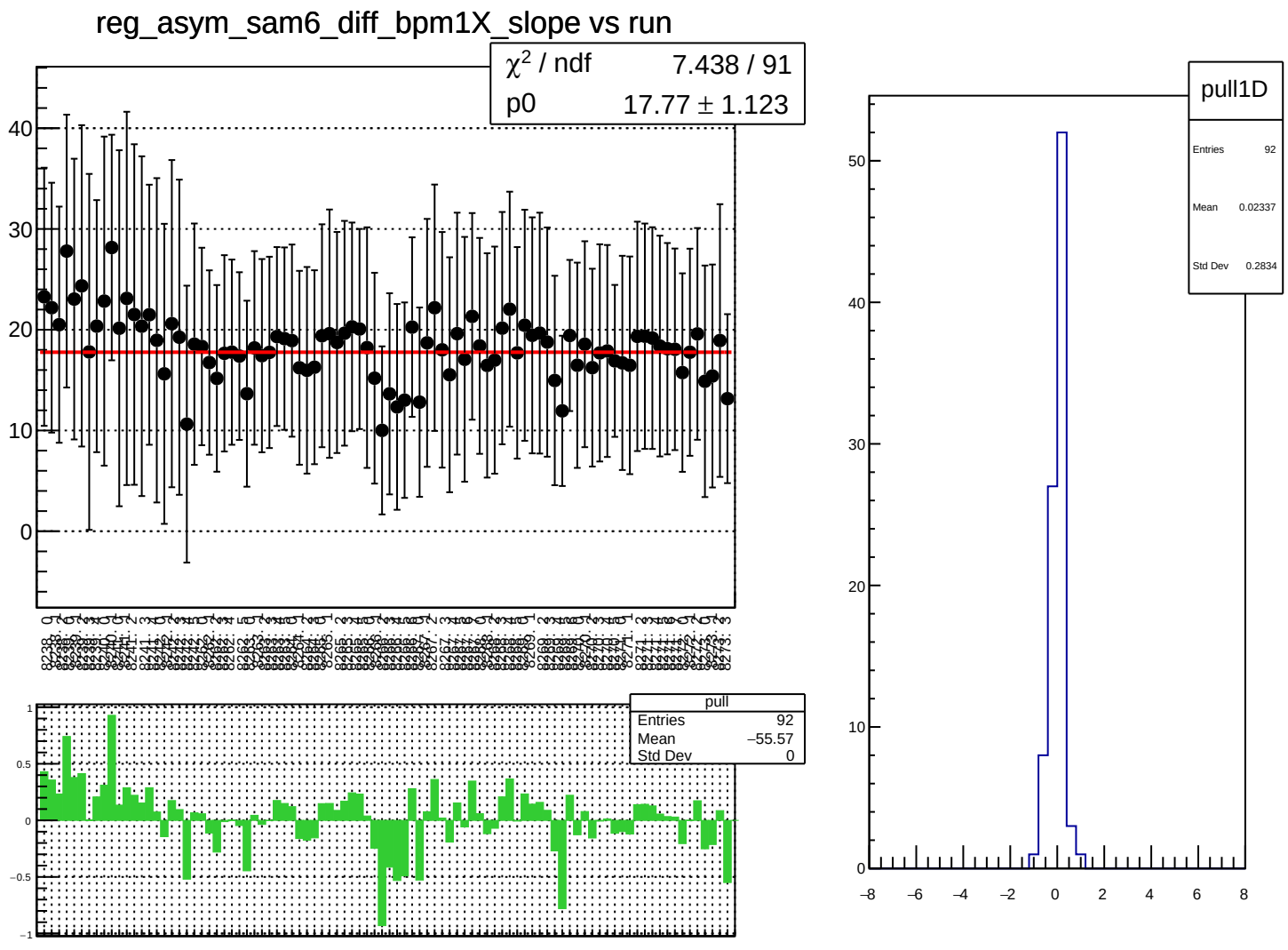

pull1D
Entries 92
Mean −0.002857
Std Dev 0.178

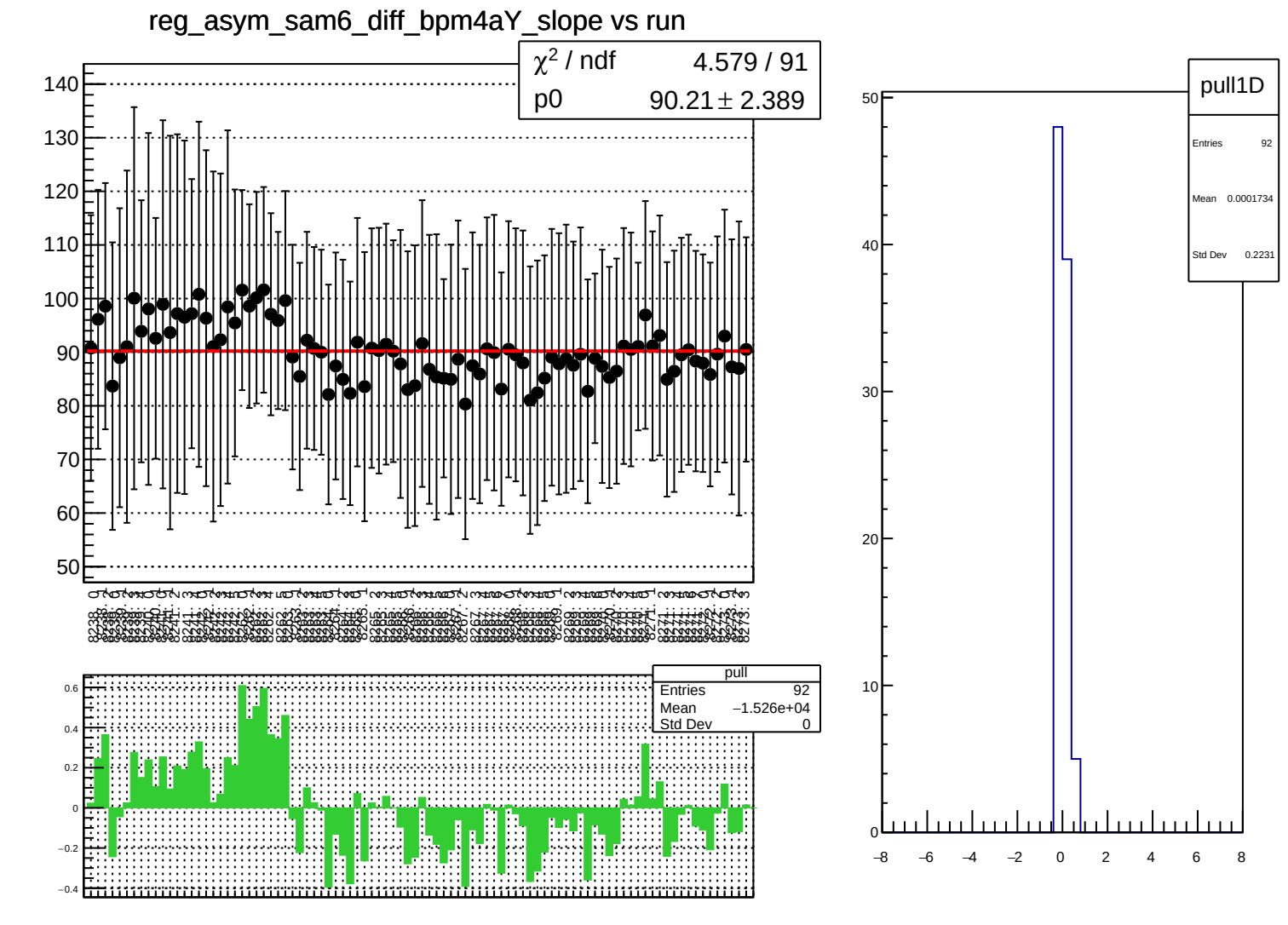

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 4.02 / 91
p0 54.89 ± 1.952
pull
Entries 92
Mean −205.6
Std Dev 0

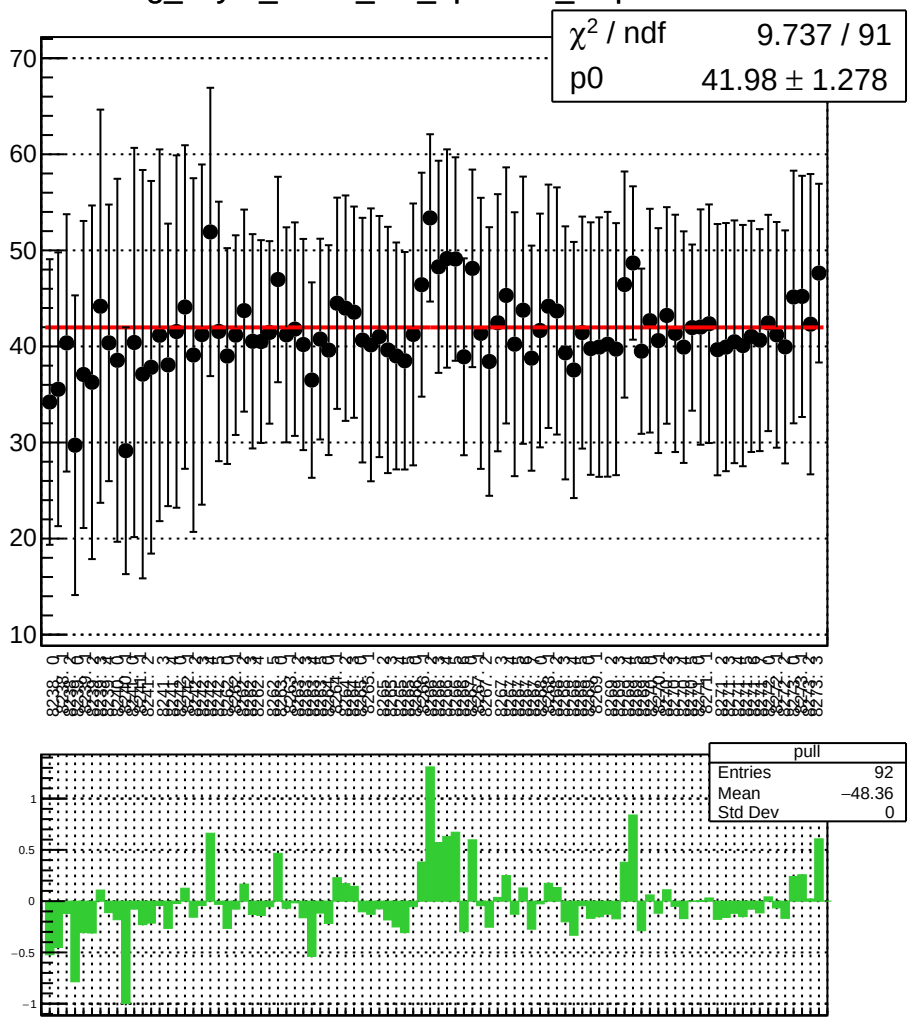

pull1D
Entries 92
Mean 0.008922
Std Dev 0.2089

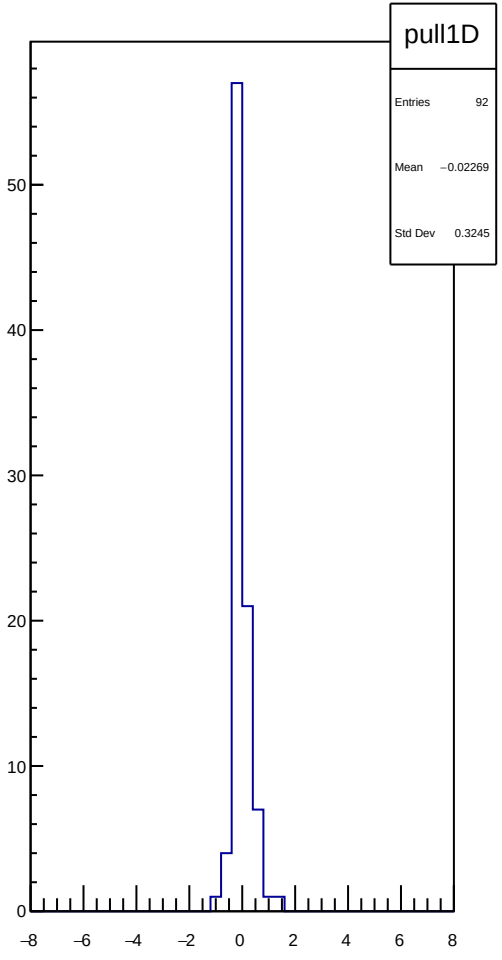

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 3.706 / 91
p0 −1.034 ± 0.1057
pull
Entries 92
Mean 206.9
Std Dev 0

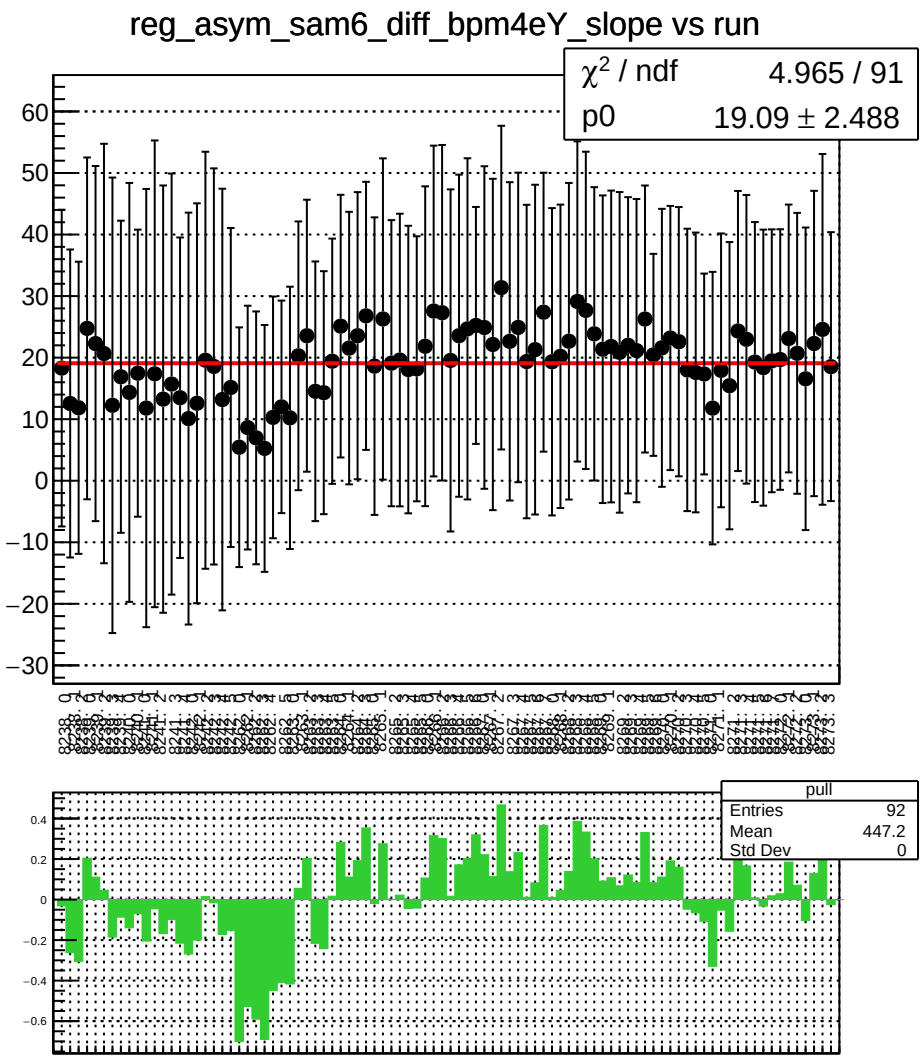

pull1D
Entries 92
Mean 0.004855
Std Dev 0.2006

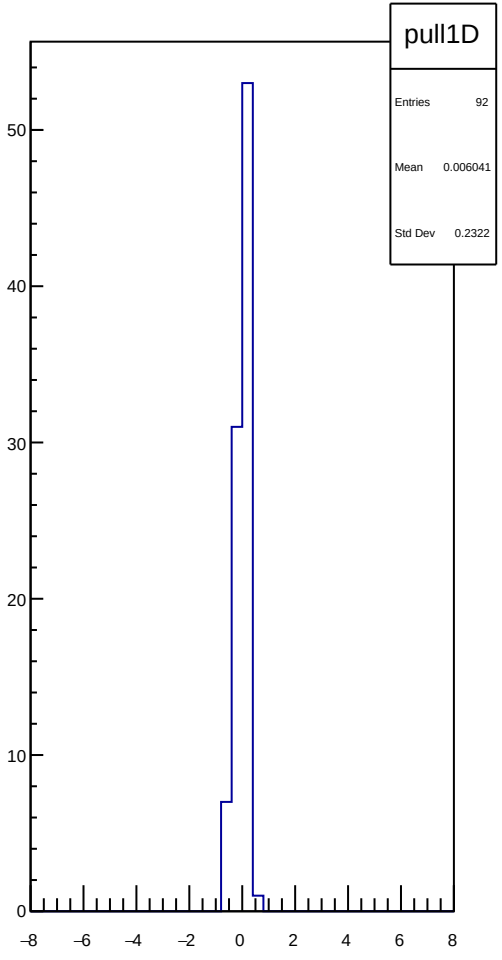

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 7.438 / 91
p0 17.77 ± 1.123
pull
Entries 92
Mean −55.57
Std Dev 0
pull1D
Entries 92
Mean 0.02337
Std Dev 0.2834

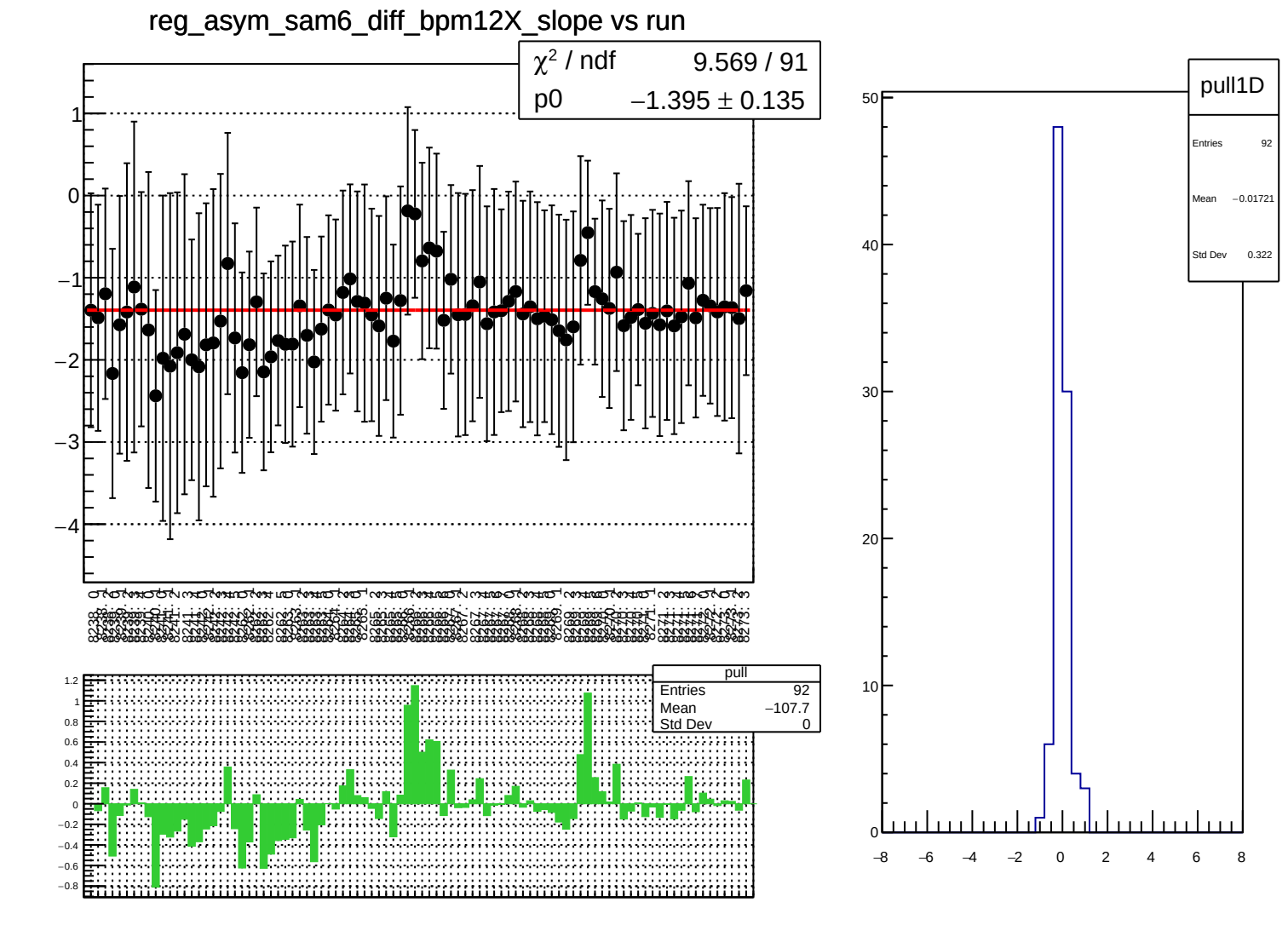

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 4.579 / 91
p0 90.21 ± 2.389
pull
Entries 92
Mean −1.526e+04
Std Dev 0
pull1D
Entries 92
Mean 0.0001734
Std Dev 0.2231

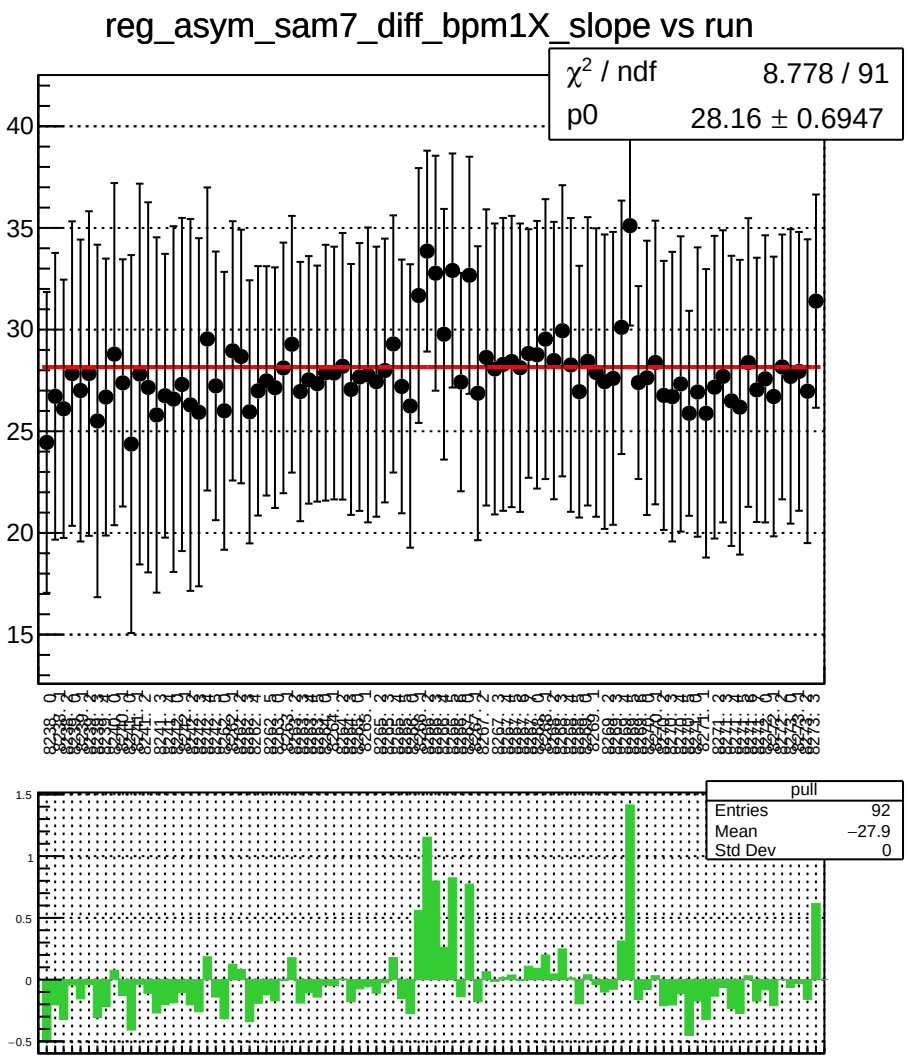

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 9.737 / 91
p0 41.98 ± 1.278
pull
Entries 92
Mean −48.36
Std Dev 0

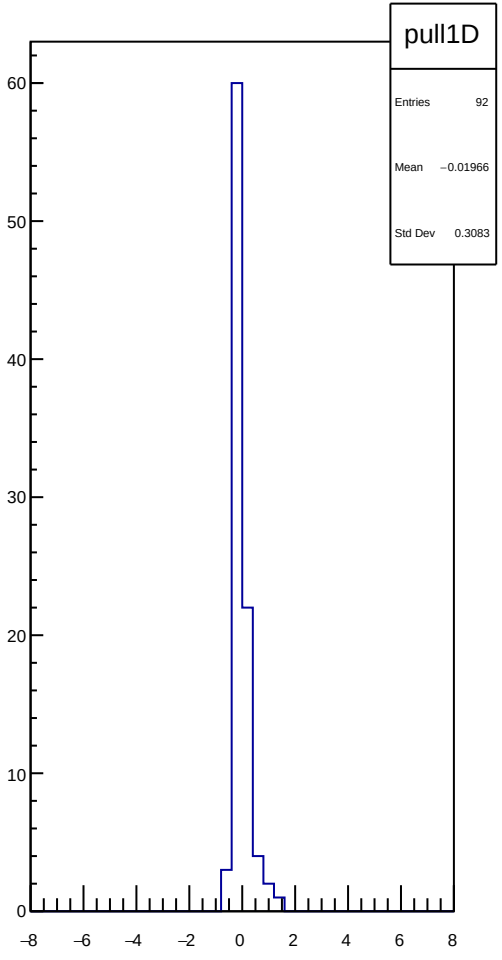

pull1D
Entries 92
Mean −0.02269
Std Dev 0.3245

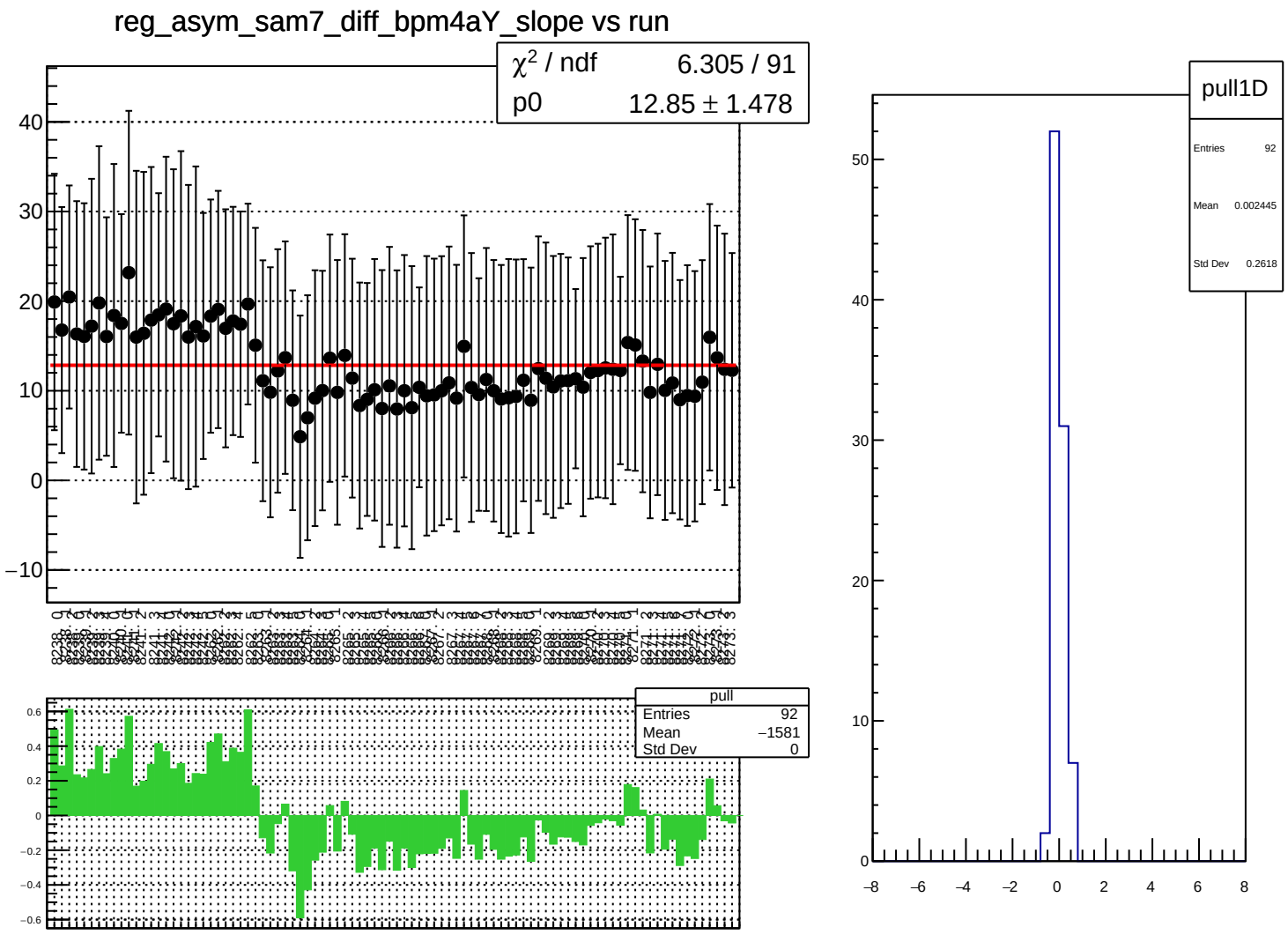

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 4.965 / 91
p0 19.09 ± 2.488
pull
Entries 92
Mean 447.2
Std Dev 0

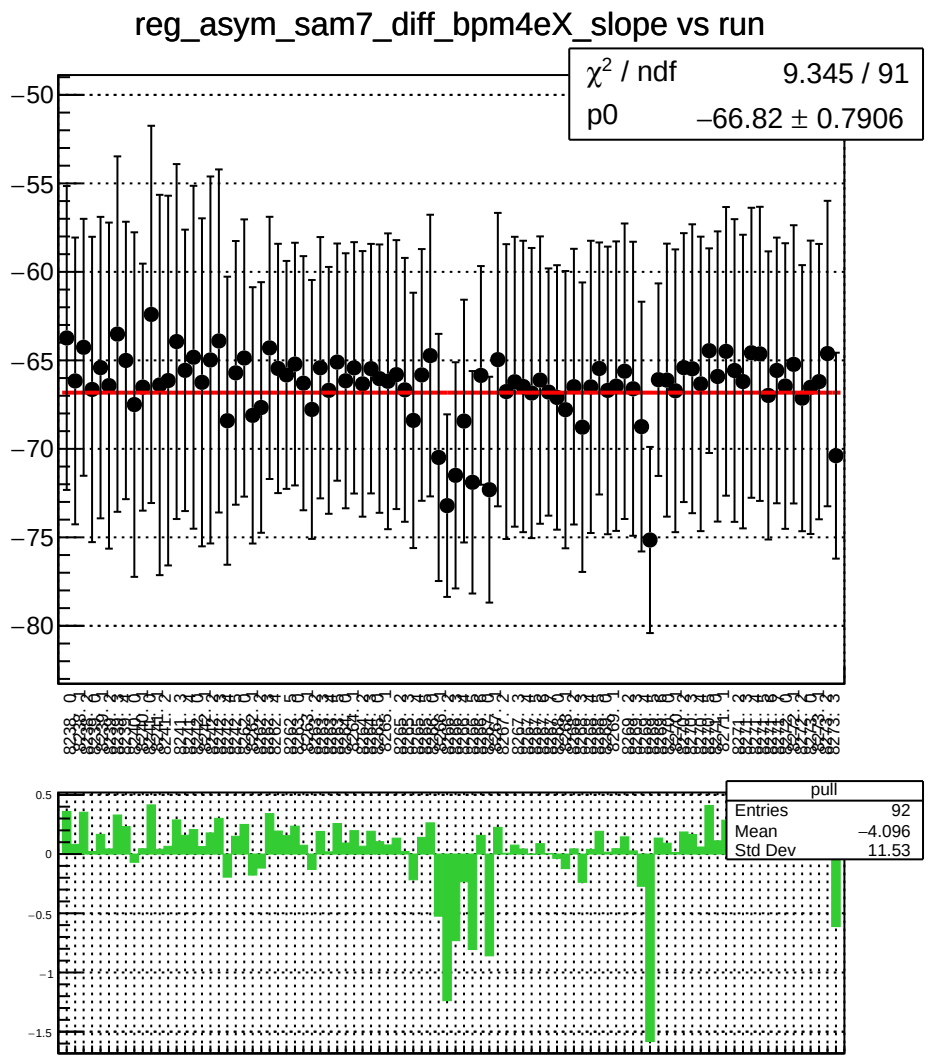

pull1D
Entries 92
Mean 0.006041
Std Dev 0.2322

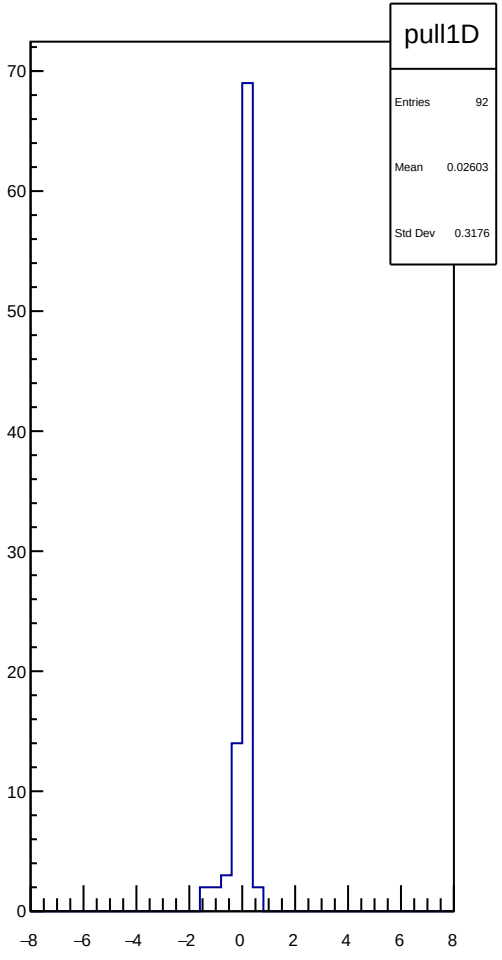

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 9.569 / 91
p0 −1.395 ± 0.135
pull
Entries 92
Mean −107.7
Std Dev 0
pull1D
Entries 92
Mean −0.01721
Std Dev 0.322

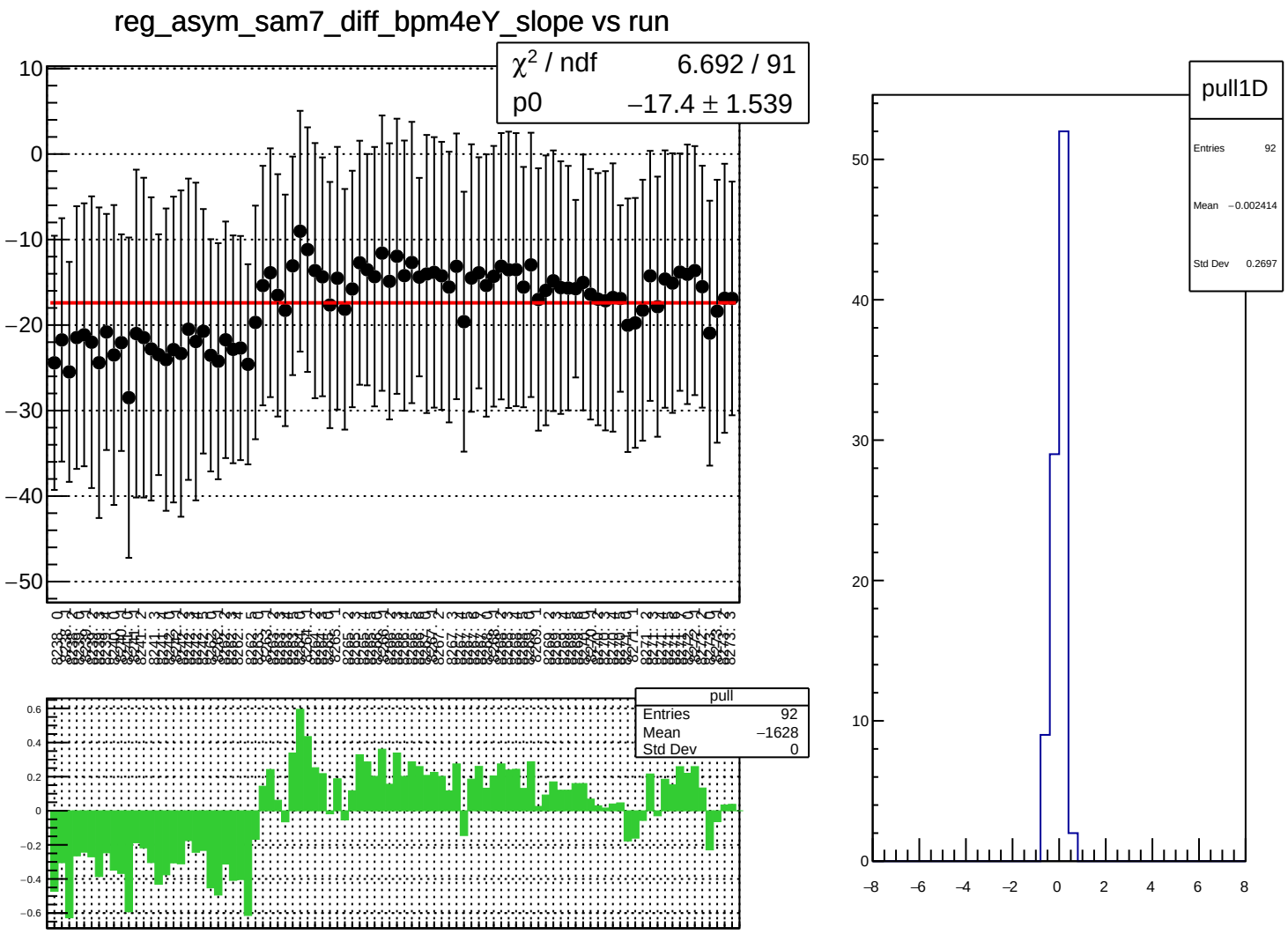

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 8.778 / 91
p0 28.16 ± 0.6947
pull
Entries 92
Mean −27.9
Std Dev 0

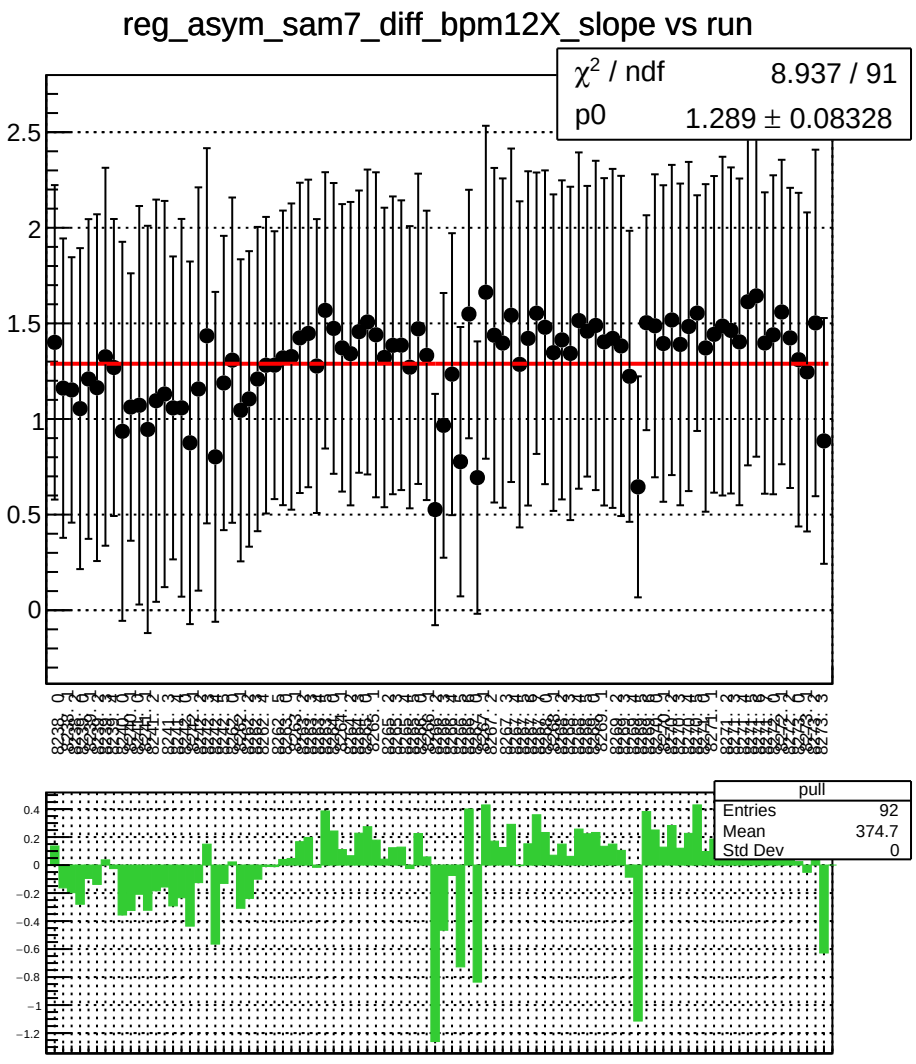

pull1D
Entries 92
Mean −0.01966
Std Dev 0.3083

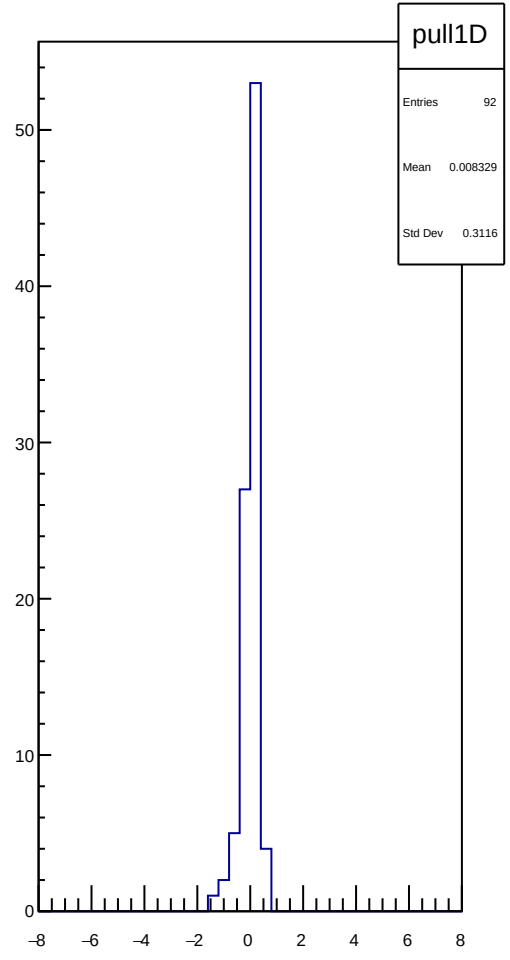

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 6.305 / 91
p0 12.85 ± 1.478
pull
Entries 92
Mean −1581
Std Dev 0
pull1D
Entries 92
Mean 0.002445
Std Dev 0.2618

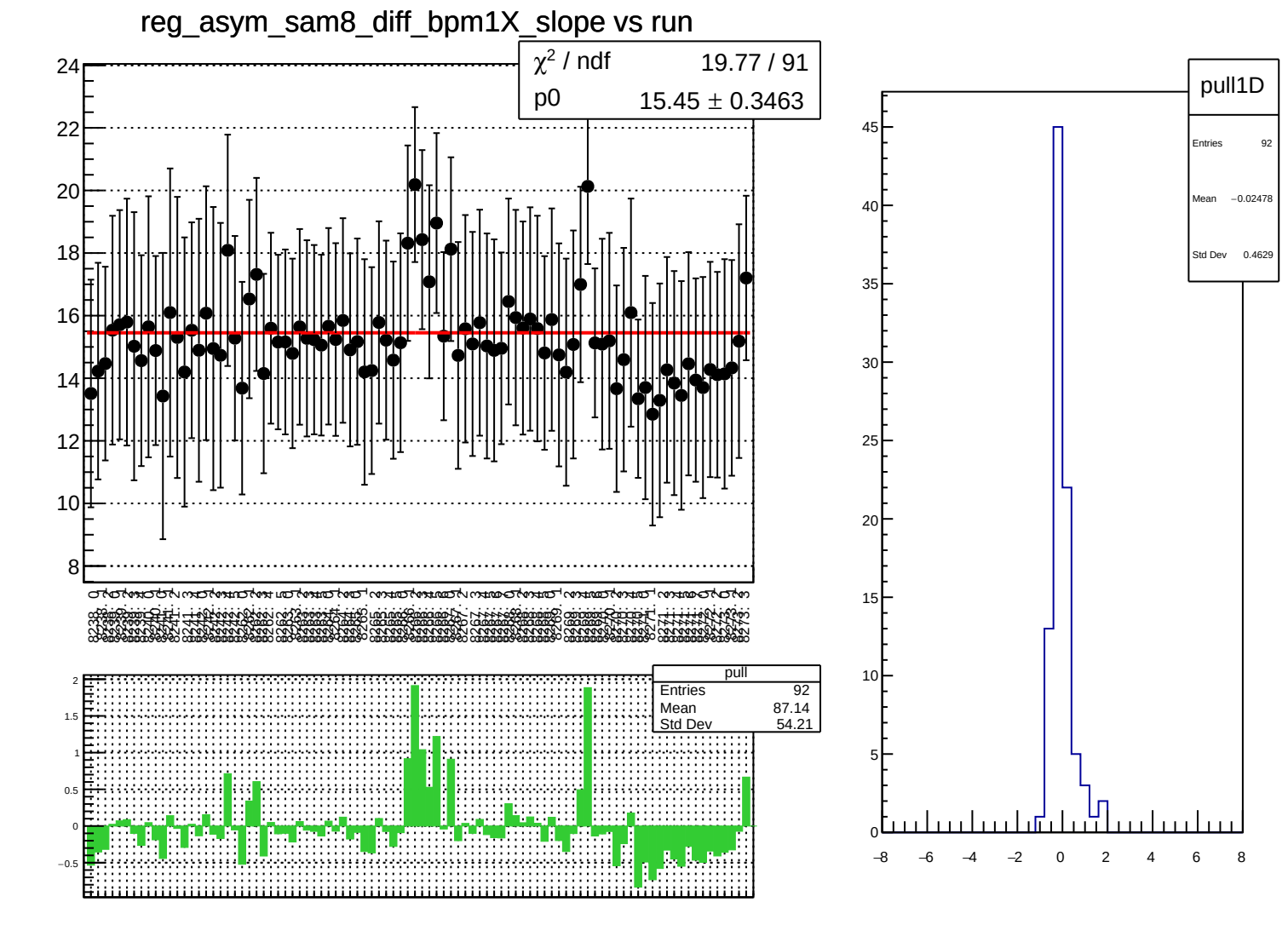

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 9.345 / 91
p0 −66.82 ± 0.7906
pull
Entries 92
Mean −4.096
Std Dev 11.53

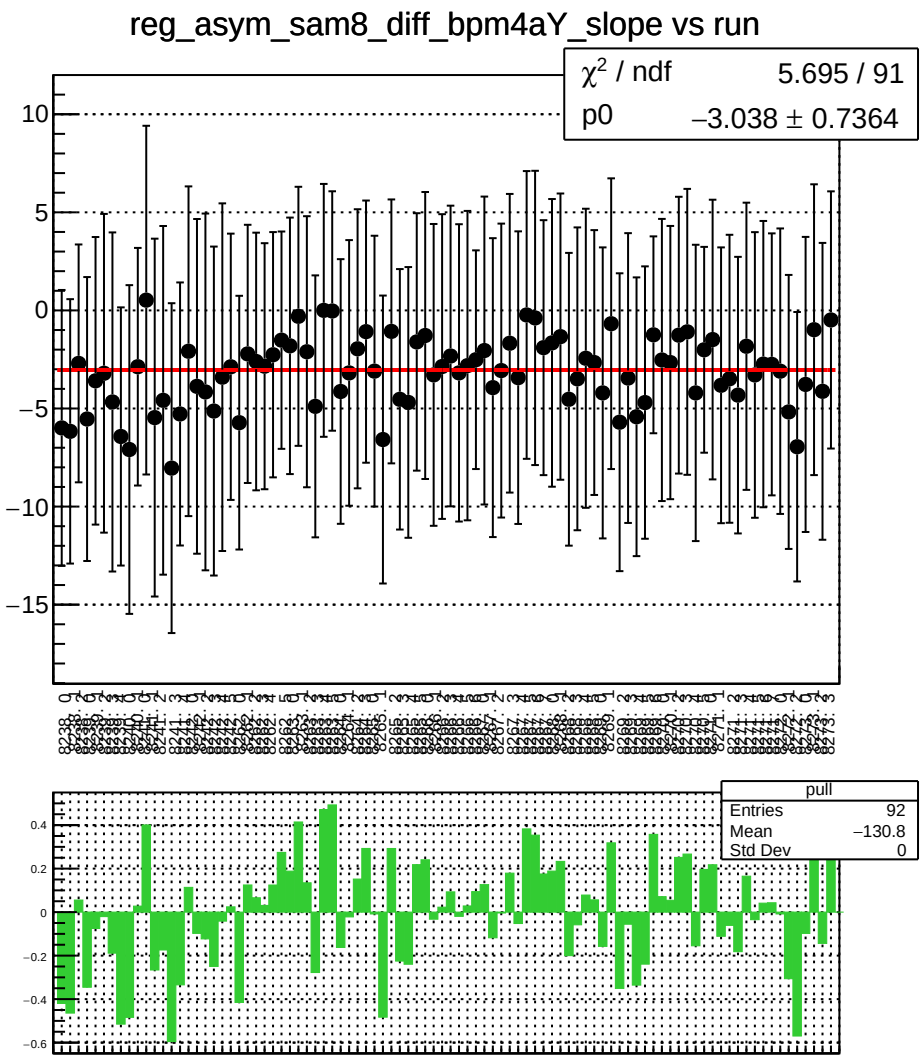

pull1D
Entries 92
Mean 0.02603
Std Dev 0.3176

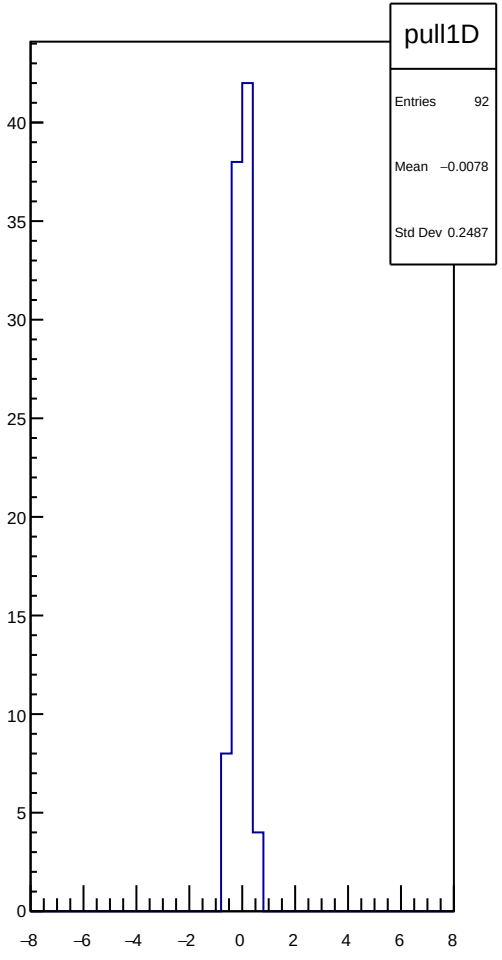

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 6.692 / 91
p0 −17.4 ± 1.539
pull
Entries 92
Mean −1628
Std Dev 0
pull1D
Entries 92
Mean −0.002414
Std Dev 0.2697

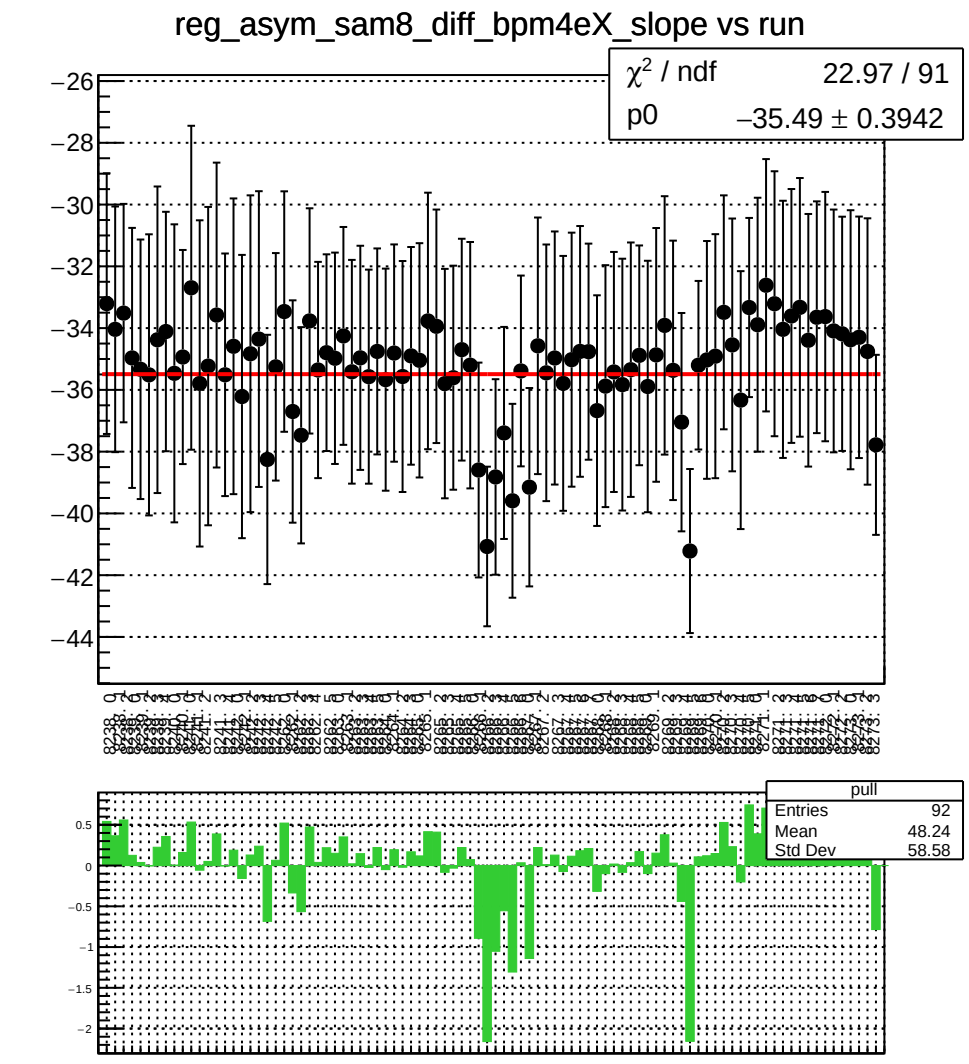

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 8.937 / 91
p0 1.289 ± 0.08328
pull
Entries 92
Mean 374.7
Std Dev 0

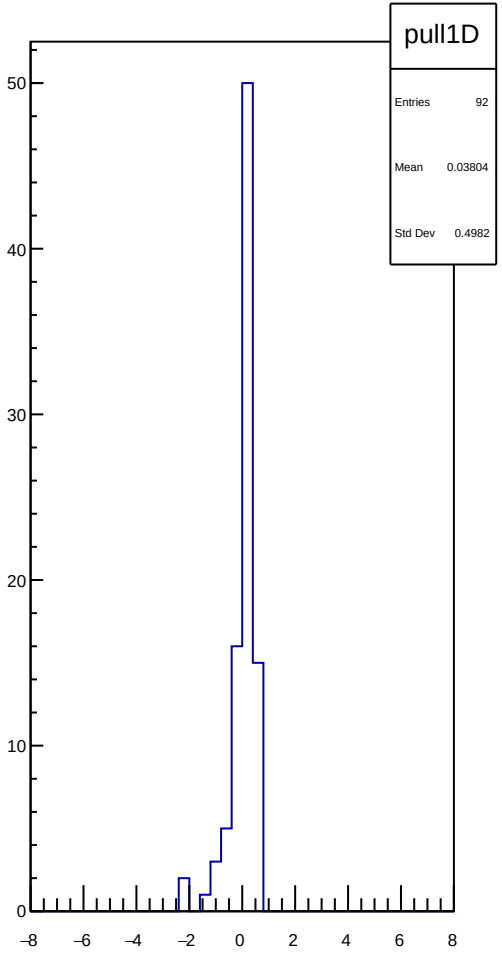

pull1D
Entries 92
Mean 0.008329
Std Dev 0.3116

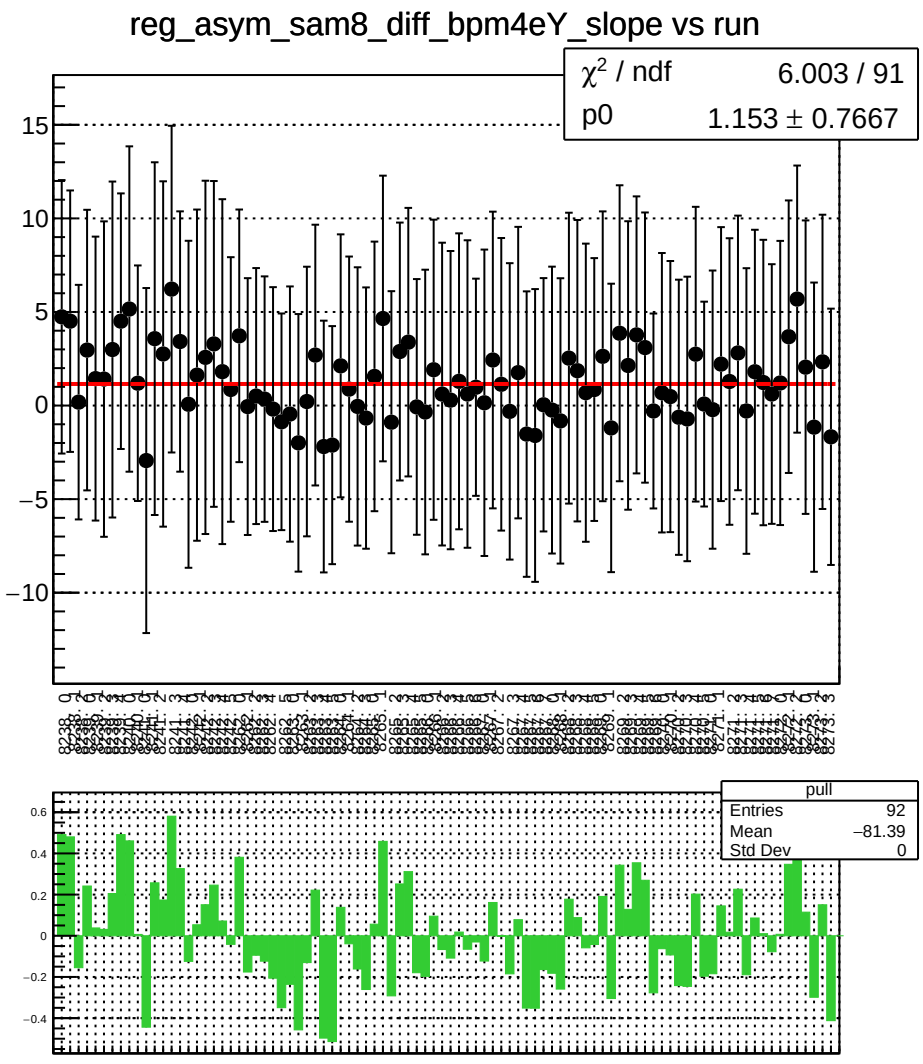

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 19.77 / 91
p0 15.45 ± 0.3463
pull
Entries 92
Mean 87.14
Std Dev 54.21
pull1D
Entries 92
Mean −0.02478
Std Dev 0.4629

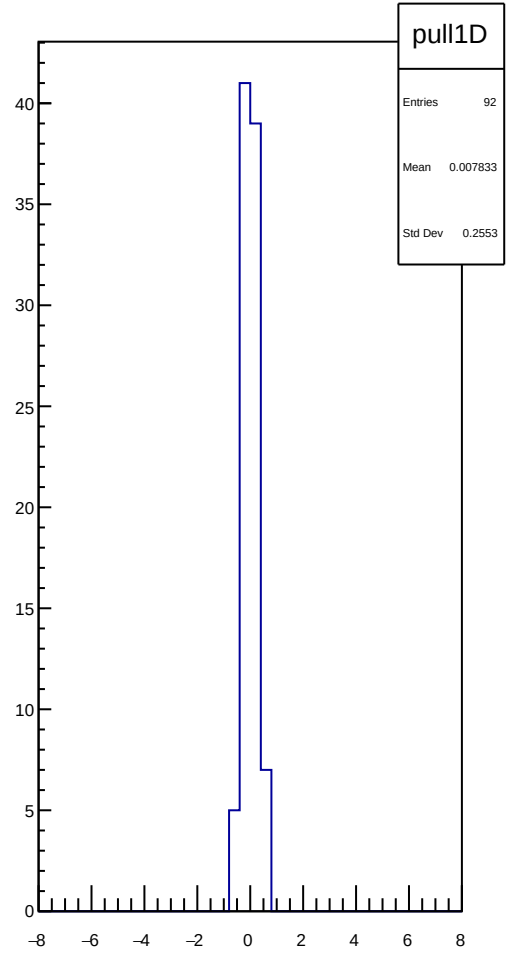

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 5.695 / 91
p0 −3.038 ± 0.7364
pull
Entries 92
Mean −130.8
Std Dev 0

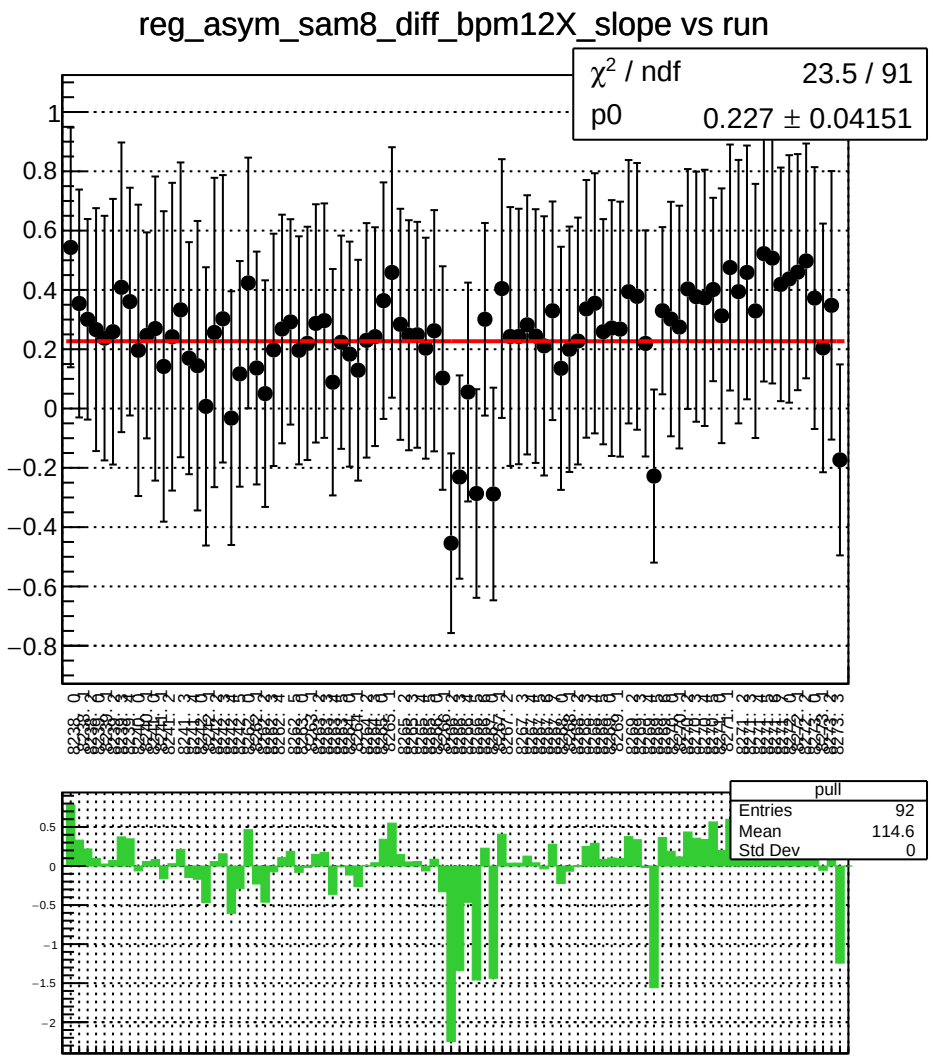

pull1D
Entries 92
Mean −0.0078
Std Dev 0.2487

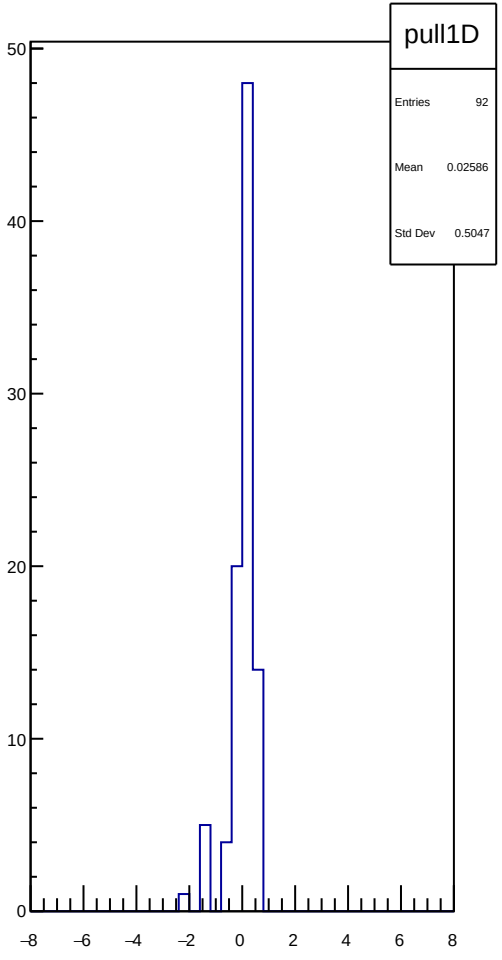

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 22.97 / 91
p0 −35.49 ± 0.3942
pull
Entries 92
Mean 48.24
Std Dev 58.58

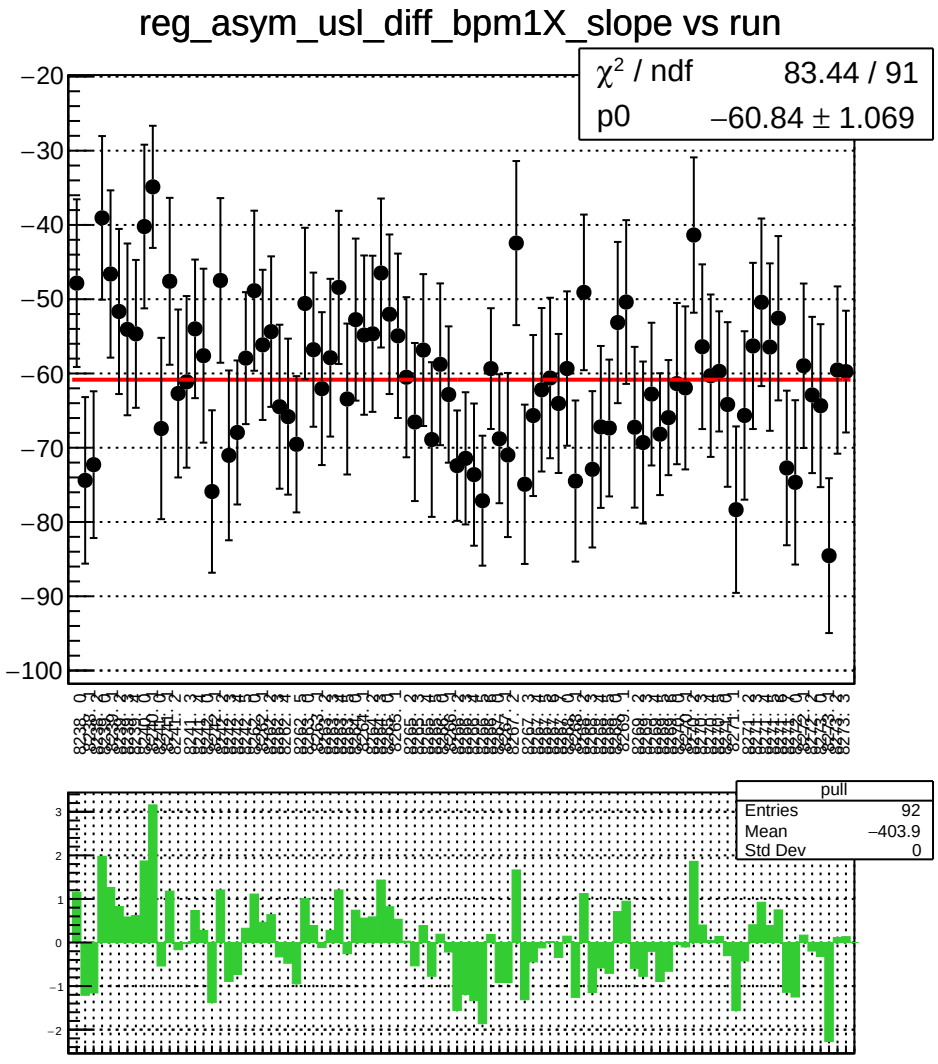

pull1D
Entries 92
Mean 0.03804
Std Dev 0.4982

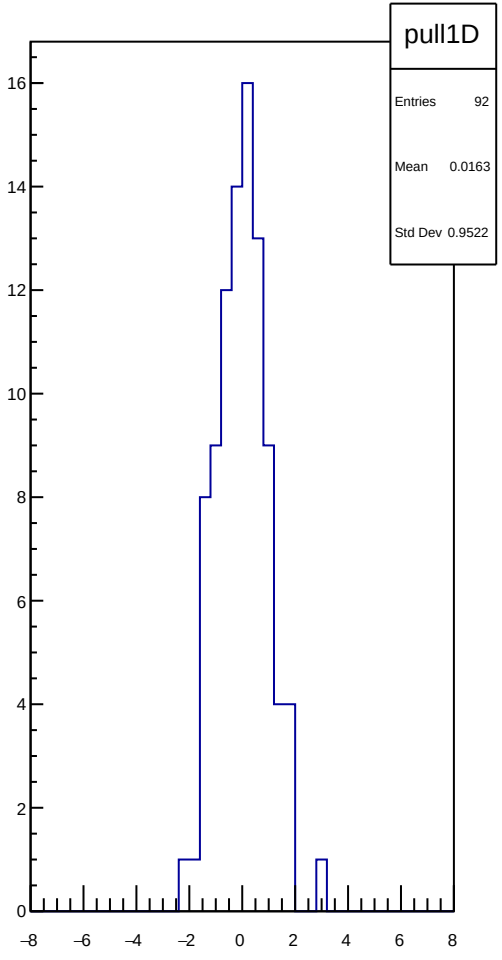

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 6.003 / 91
p0 1.153 ± 0.7667
pull
Entries 92
Mean −81.39
Std Dev 0

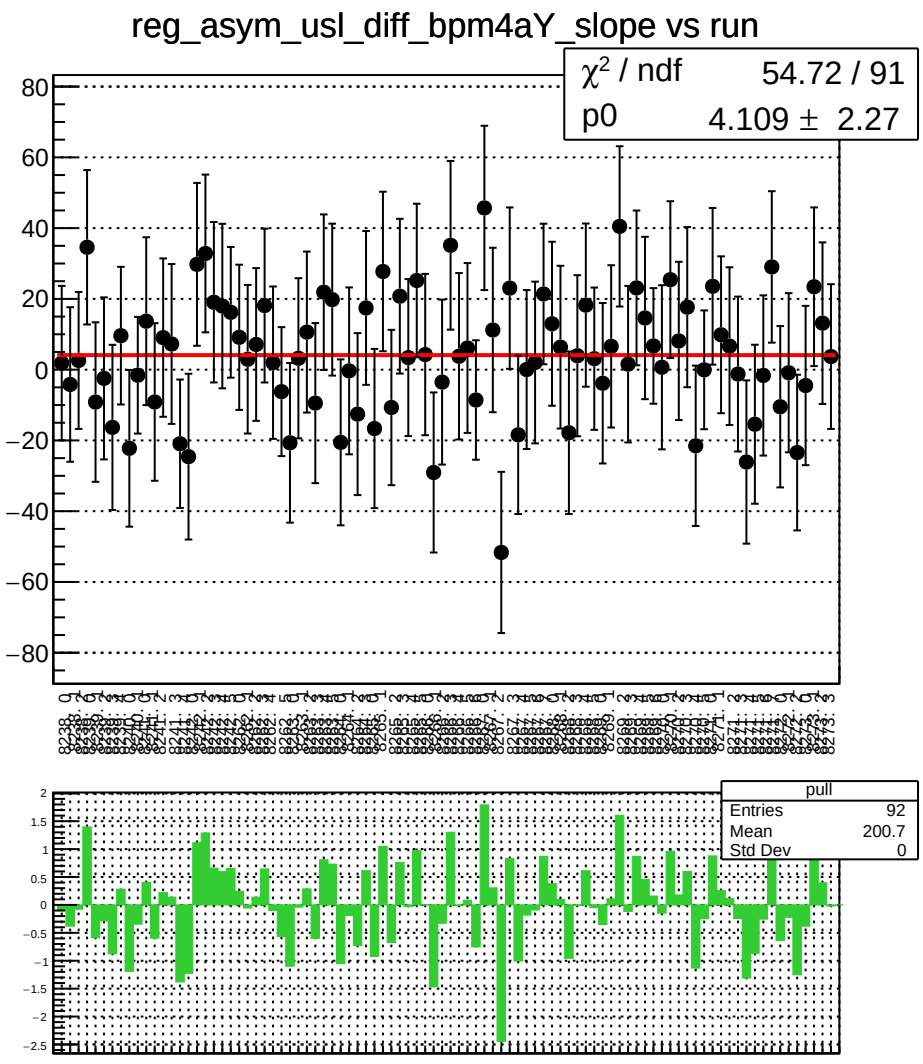

pull1D
Entries 92
Mean 0.007833
Std Dev 0.2553

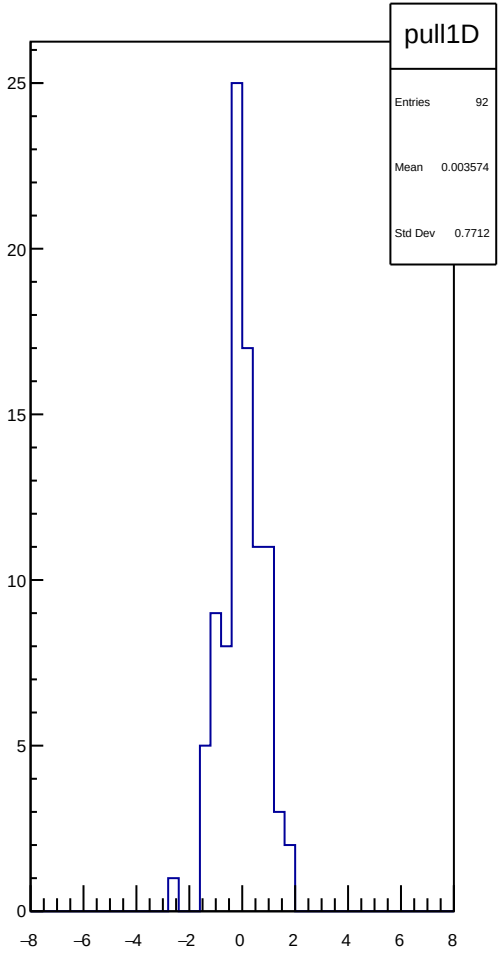

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 23.5 / 91
p0 0.227 ± 0.04151
pull
Entries 92
Mean 114.6
Std Dev 0

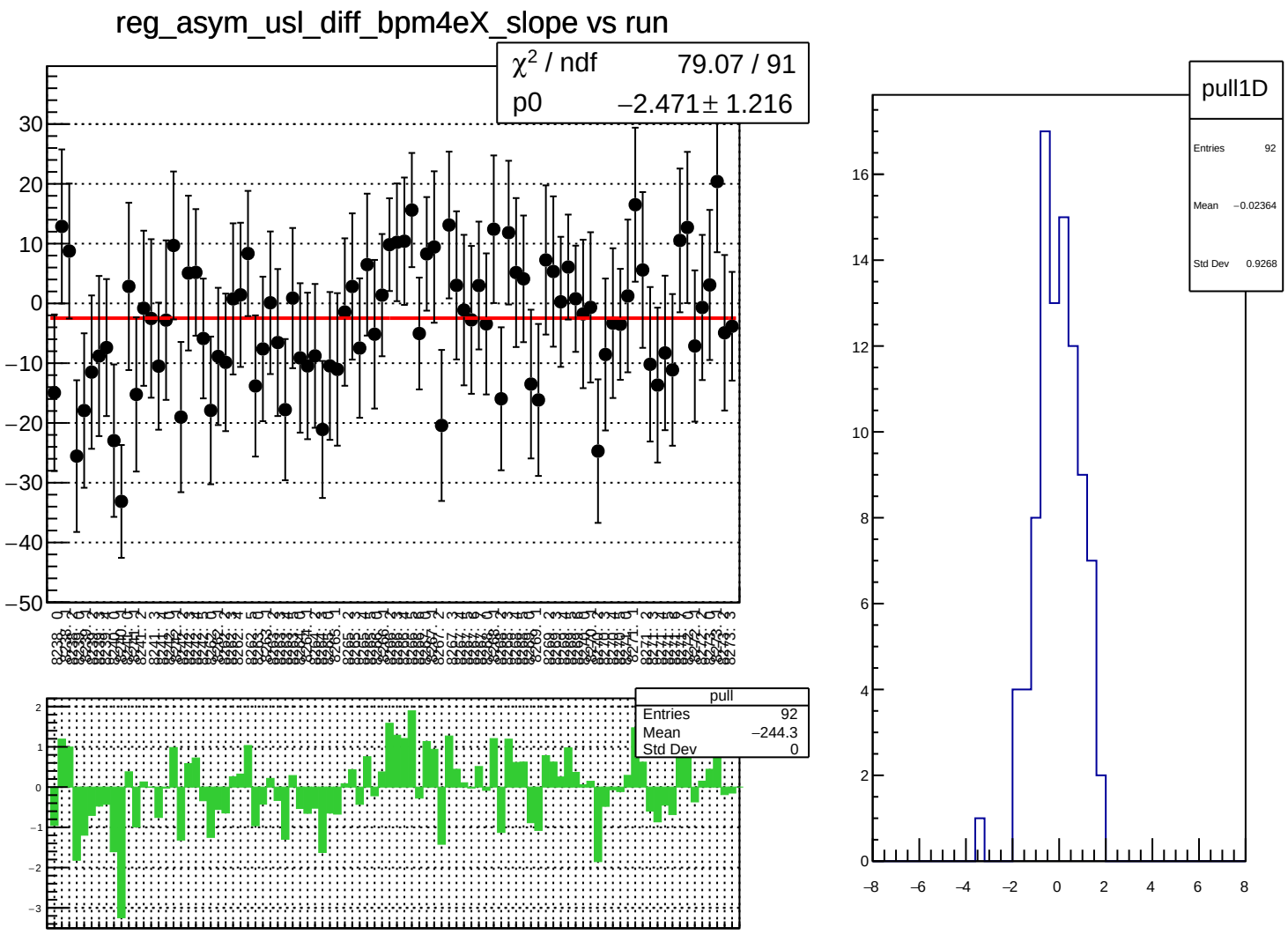

pull1D
Entries 92
Mean 0.02586
Std Dev 0.5047

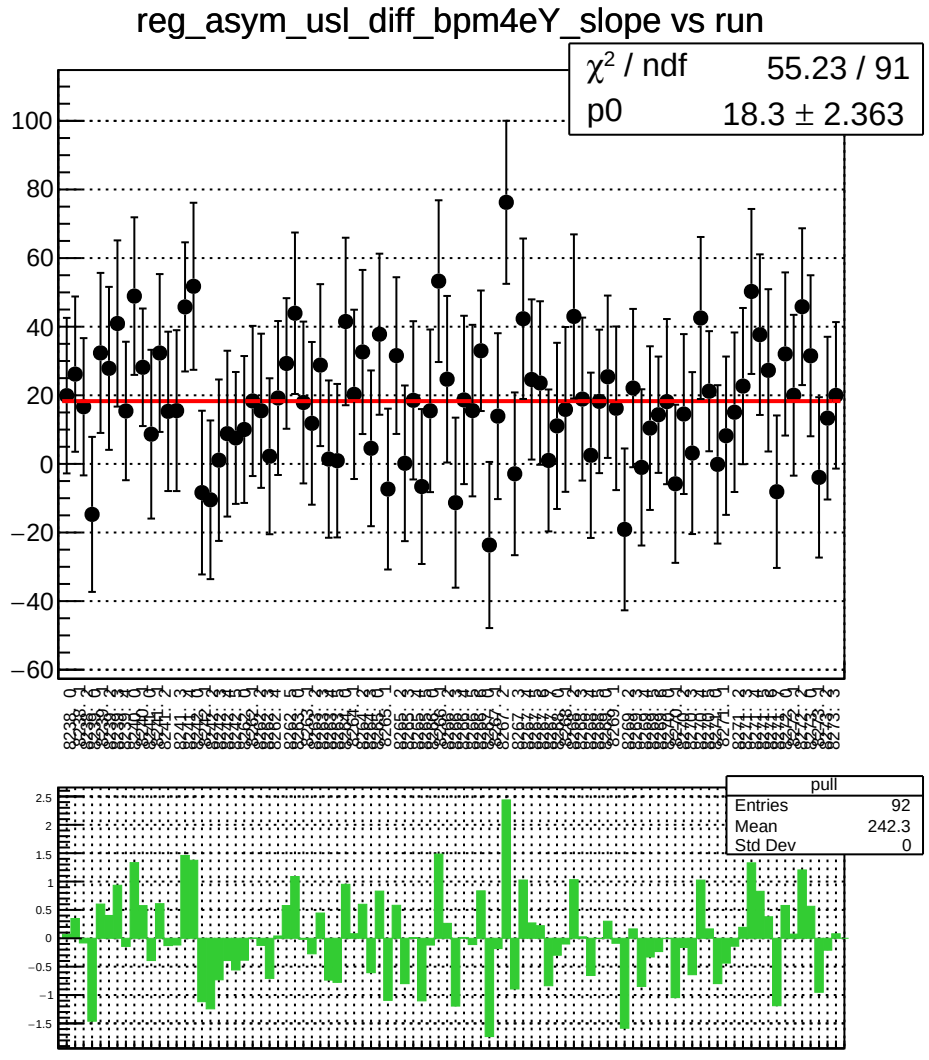

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 83.44 / 91
p0 −60.84 ± 1.069
pull
Entries 92
Mean −403.9
Std Dev 0

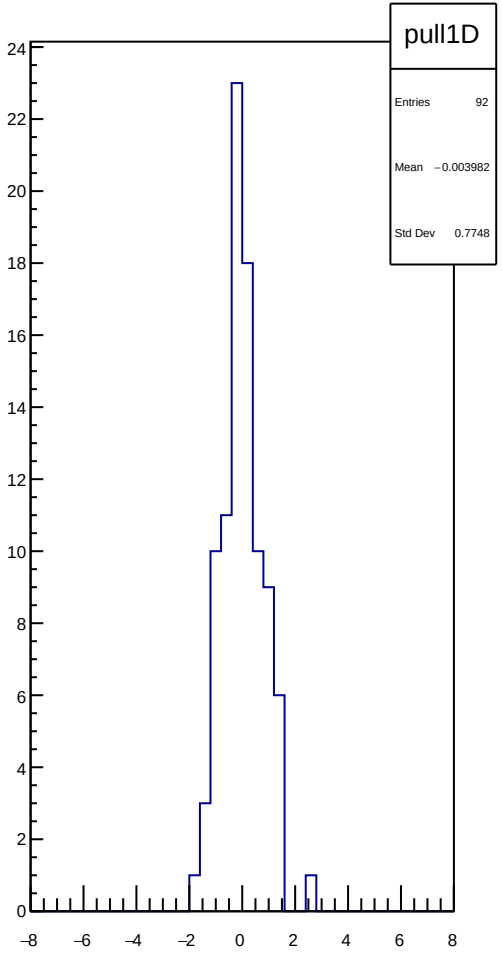

pull1D
Entries 92
Mean 0.0163
Std Dev 0.9522

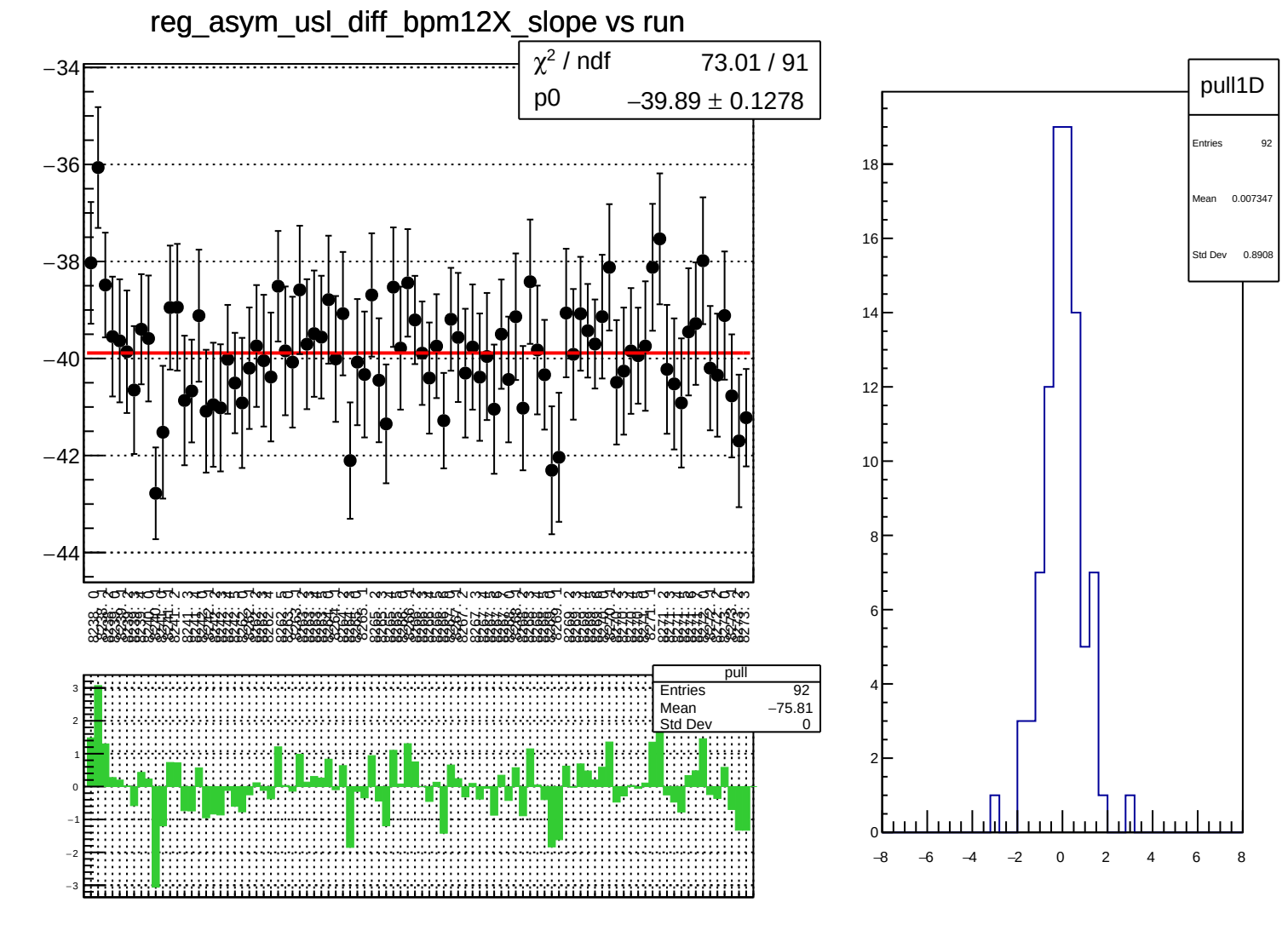

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 54.72 / 91
p0 4.109 ± 2.27
pull
Entries 92
Mean 200.7
Std Dev 0

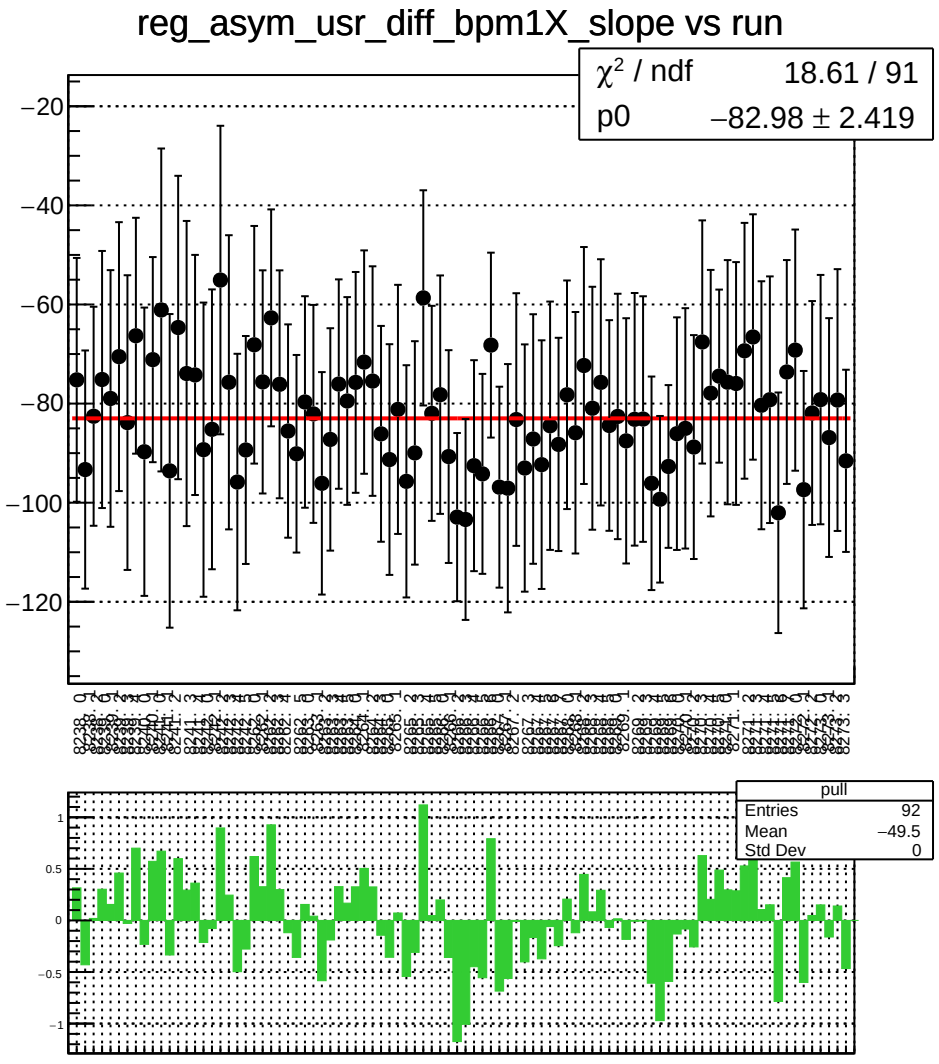

pull1D
Entries 92
Mean 0.003574
Std Dev 0.7712

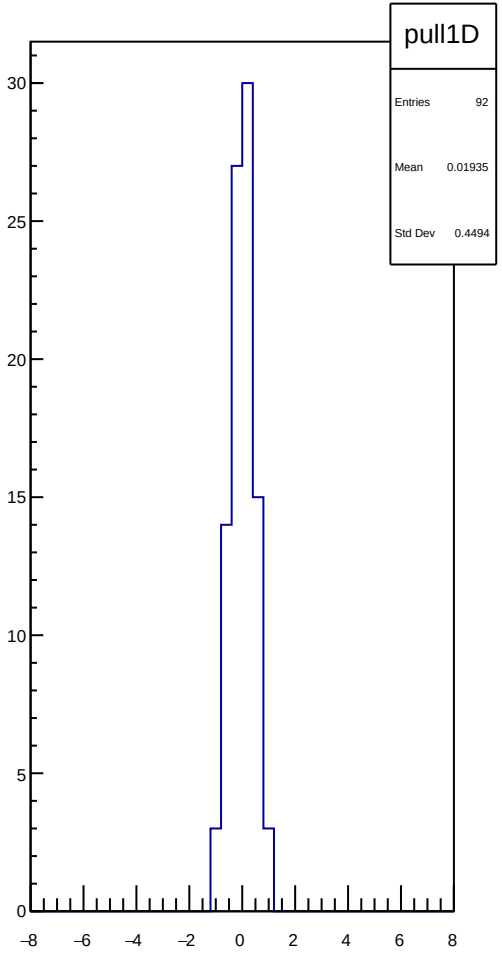

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 79.07 / 91
p0 −2.471± 1.216
pull
Entries 92
Mean −244.3
Std Dev 0
pull1D
Entries 92
Mean −0.02364
Std Dev 0.9268

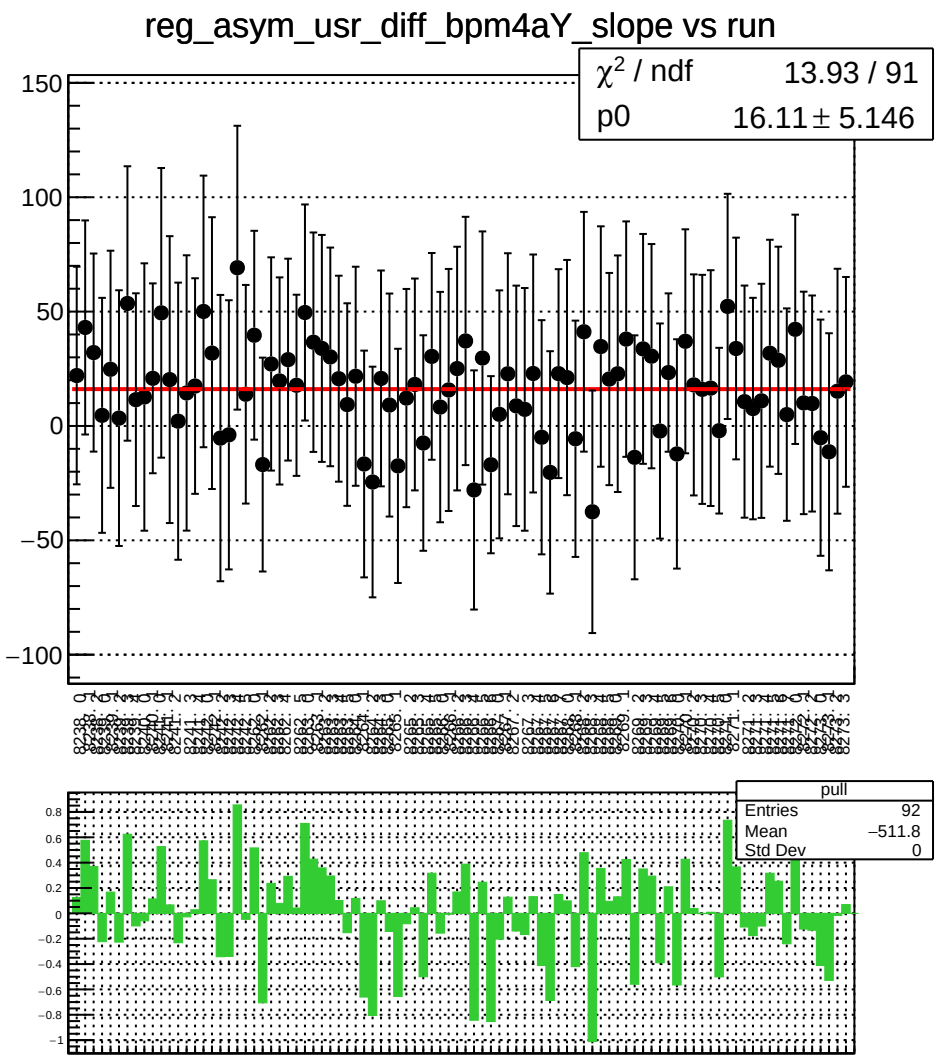

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 55.23 / 91
p0 18.3 ± 2.363
pull
Entries 92
Mean 242.3
Std Dev 0

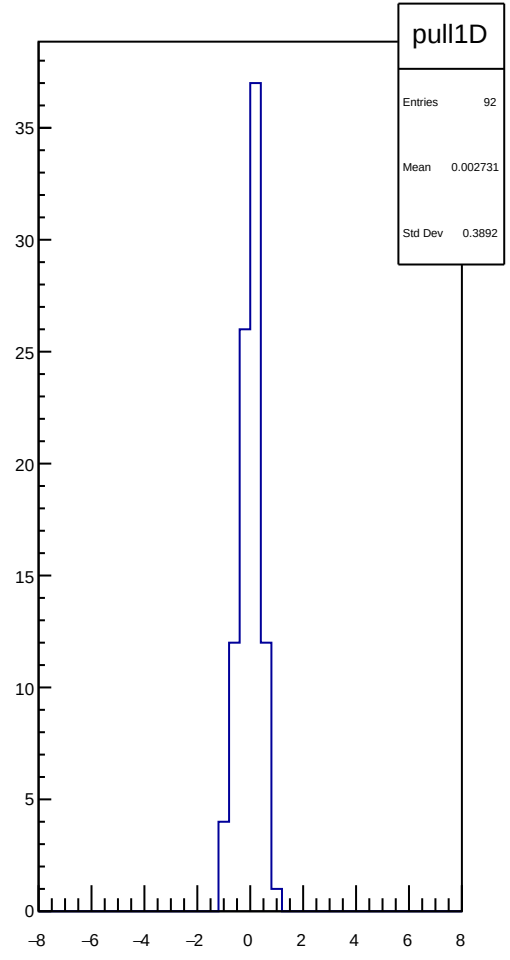

pull1D
Entries 92
Mean −0.003982
Std Dev 0.7748

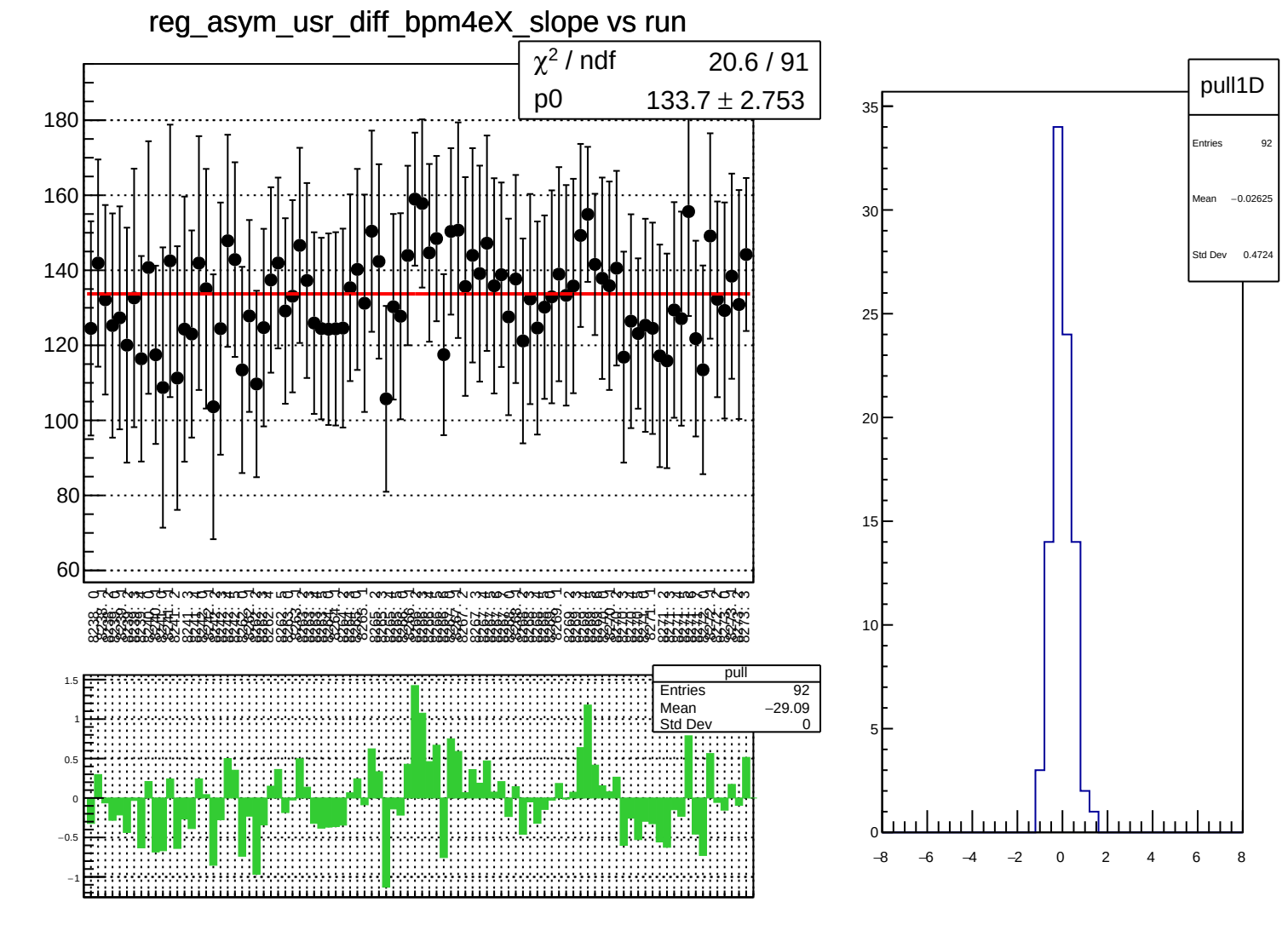

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 73.01 / 91
p0 −39.89 ± 0.1278
pull
Entries 92
Mean −75.81
Std Dev 0
pull1D
Entries 92
Mean 0.007347
Std Dev 0.8908

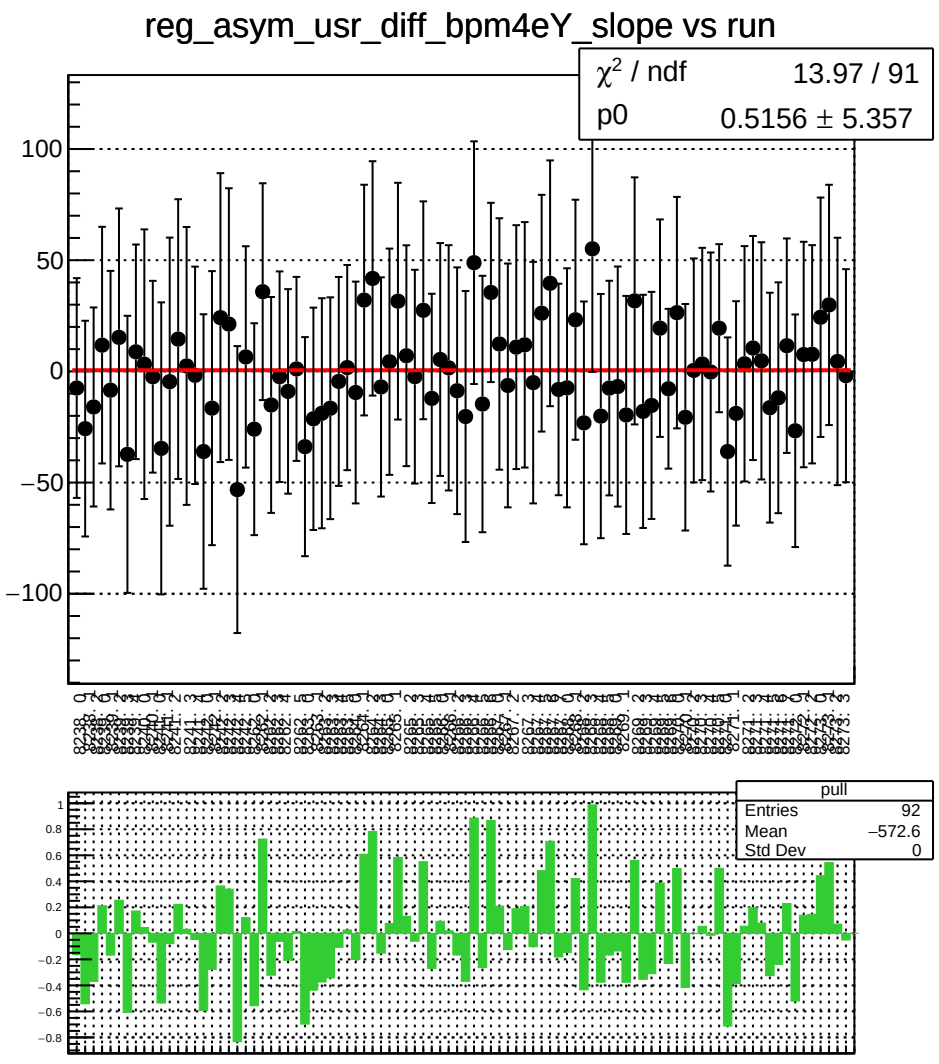

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 18.61 / 91
p0 −82.98 ± 2.419
−20
−40
−60
−80
−100
−120
pull
Entries 92
Mean −49.5
Std Dev 0
1
0.5
0
−0.5
−1

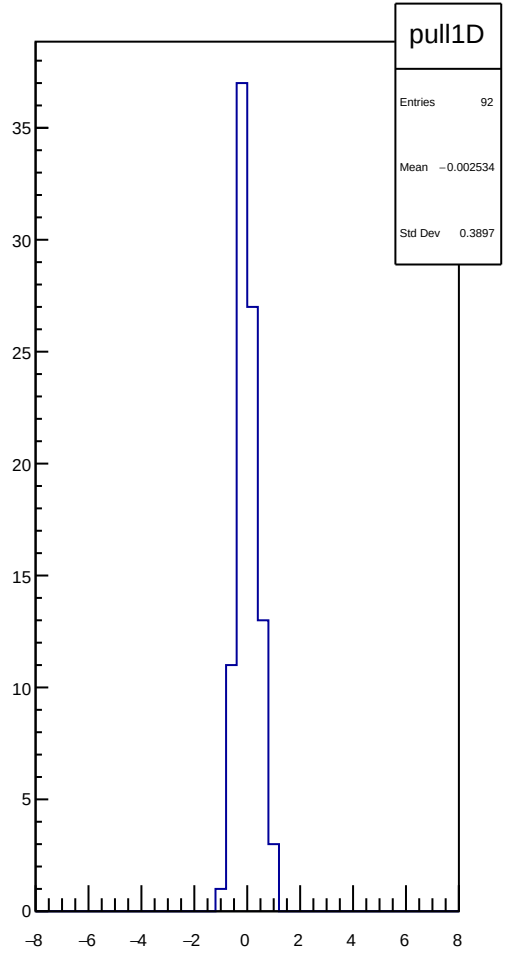

pull1D
Entries 92
Mean 0.01935
Std Dev 0.4494
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

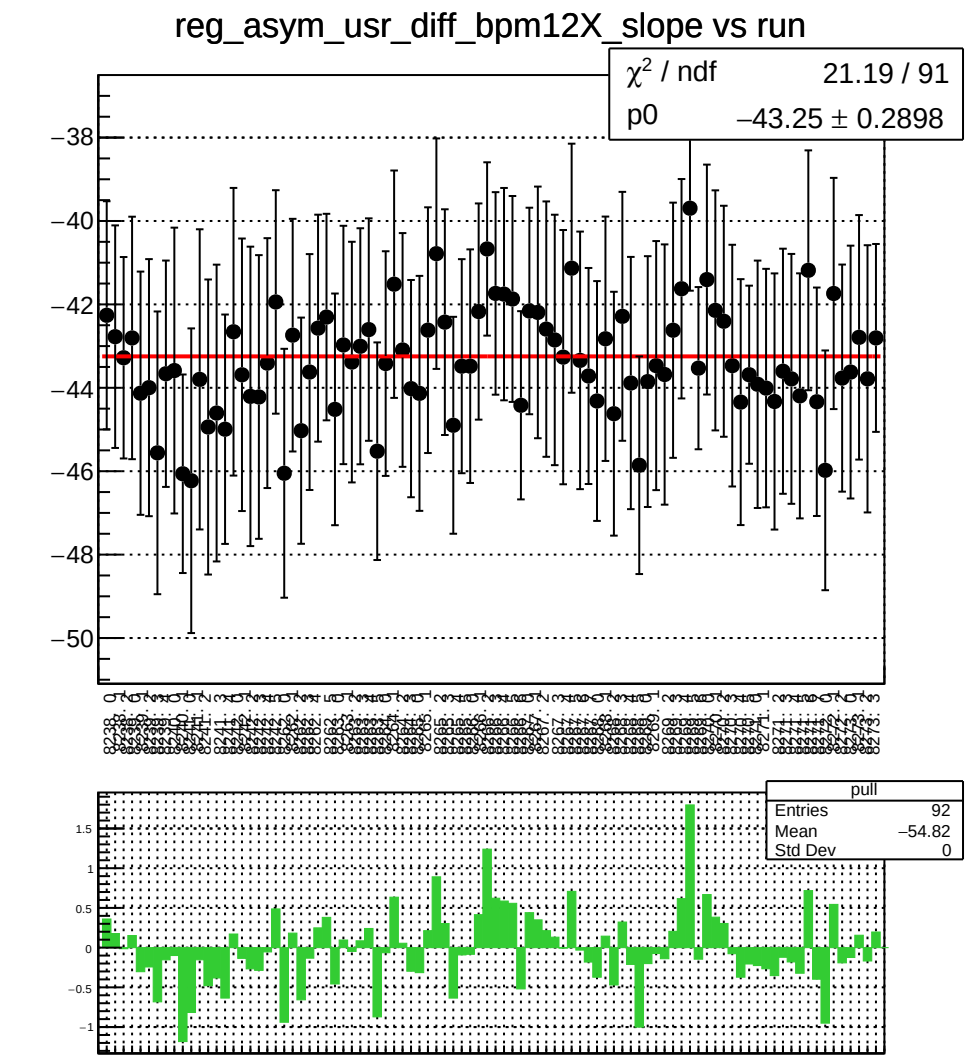

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 13.93 / 91
p0 16.11 ± 5.146
150
100
50
0
−50
−100
pull
Entries 92
Mean −511.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

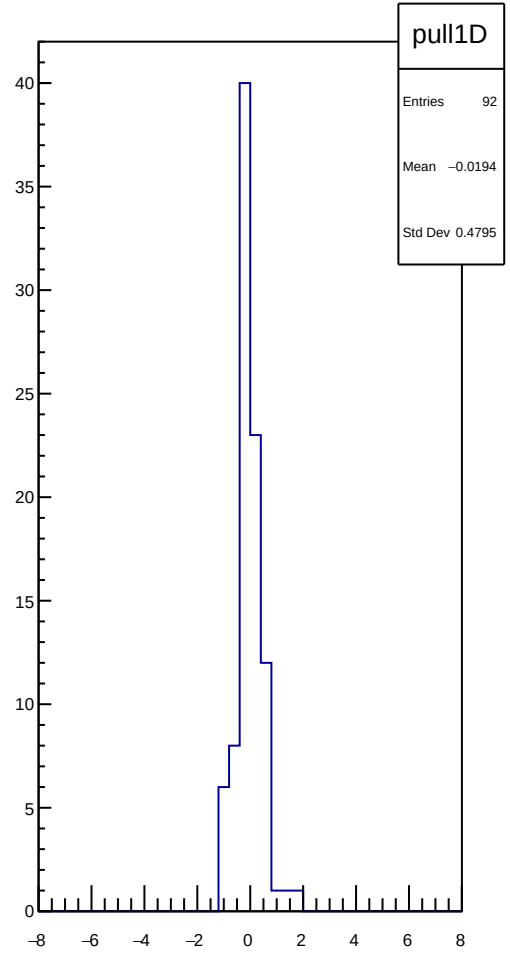

pull1D
Entries 92
Mean 0.002731
Std Dev 0.3892
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

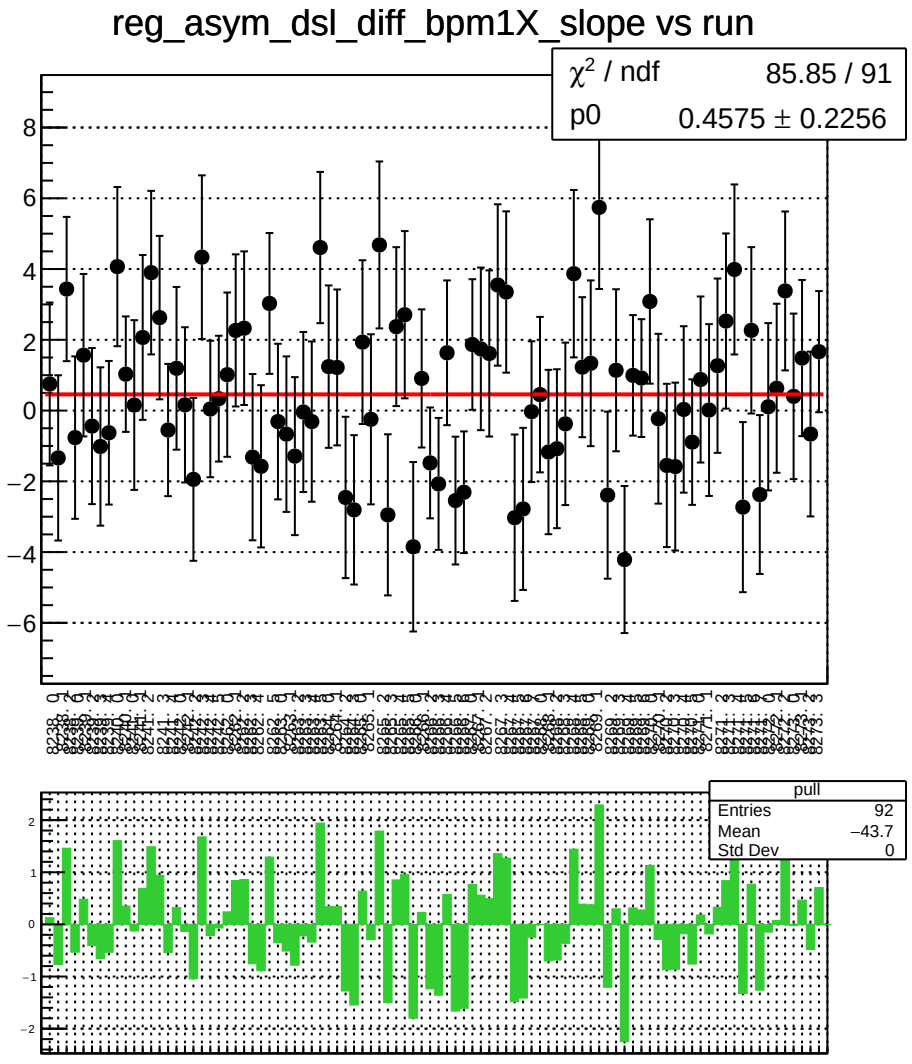

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 20.6 / 91
p0 133.7 ± 2.753
pull
Entries 92
Mean −29.09
Std Dev 0
pull1D
Entries 92
Mean −0.02625
Std Dev 0.4724

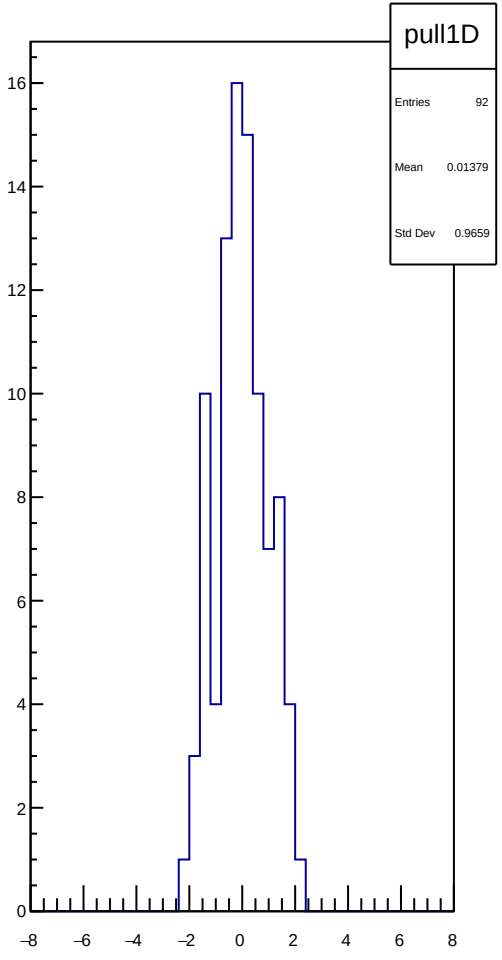

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 13.97 / 91
p0 0.5156 ± 5.357
100
50
0
−50
−100
pull
Entries 92
Mean −572.6
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

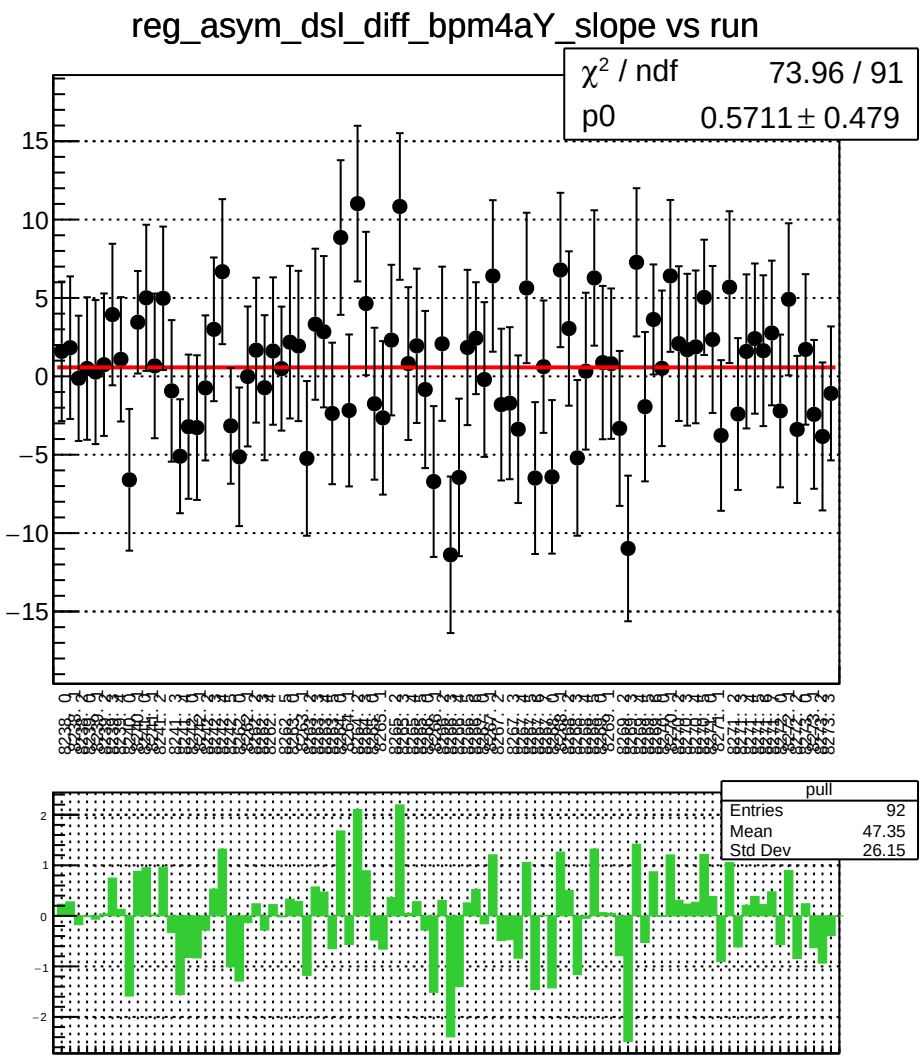

pull1D
Entries 92
Mean −0.002534
Std Dev 0.3897
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

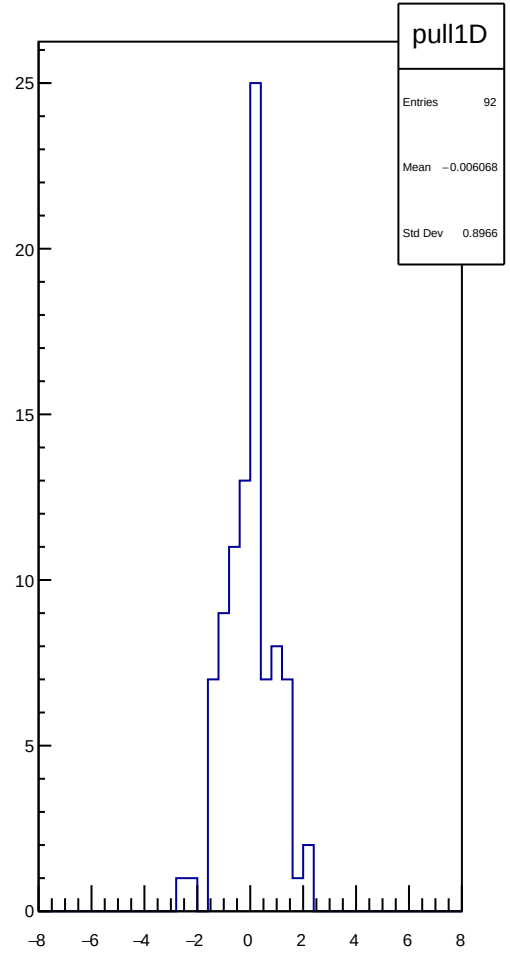

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 21.19 / 91
p0 −43.25 ± 0.2898
pull
Entries 92
Mean −54.82
Std Dev 0

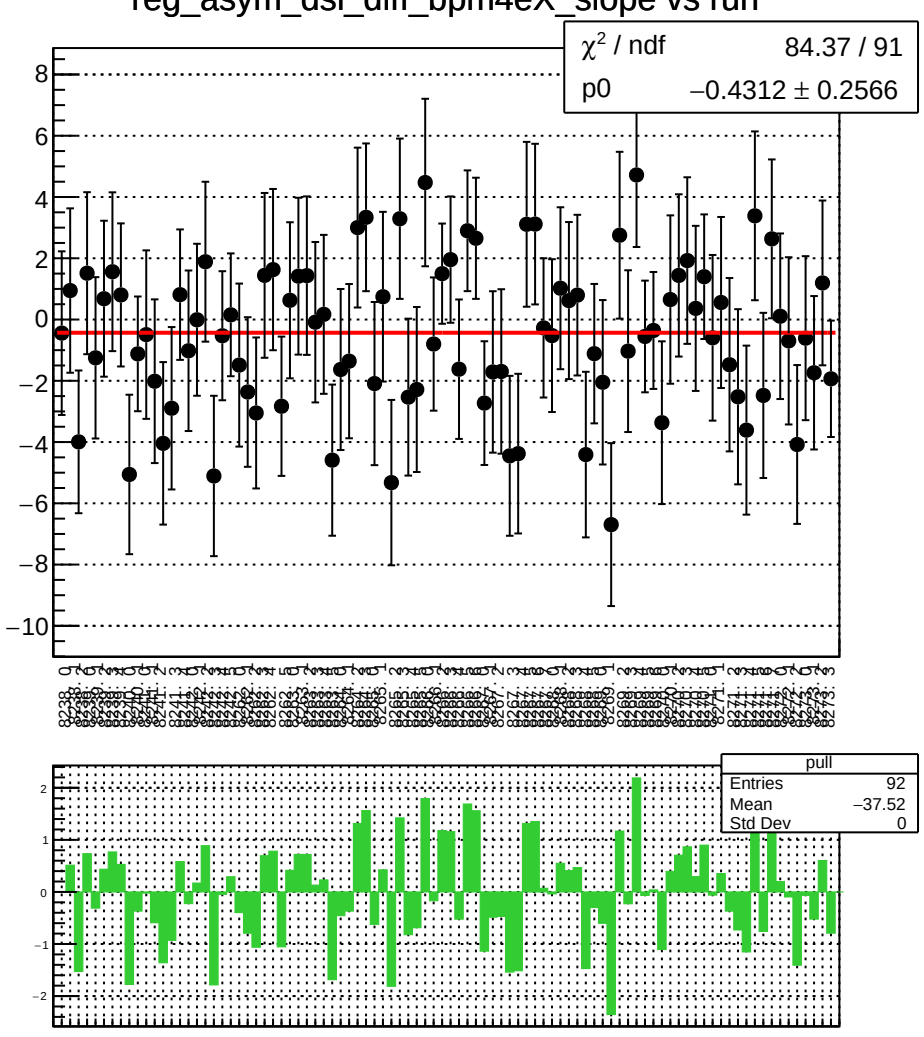

pull1D
Entries 92
Mean −0.0194
Std Dev 0.4795

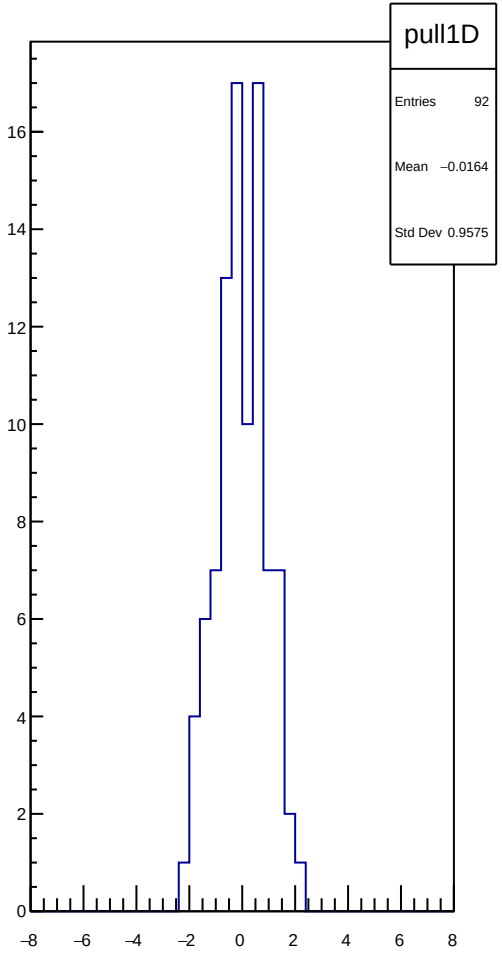

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 85.85 / 91
p0 0.4575 ± 0.2256
pull
Entries 92
Mean −43.7
Std Dev 0

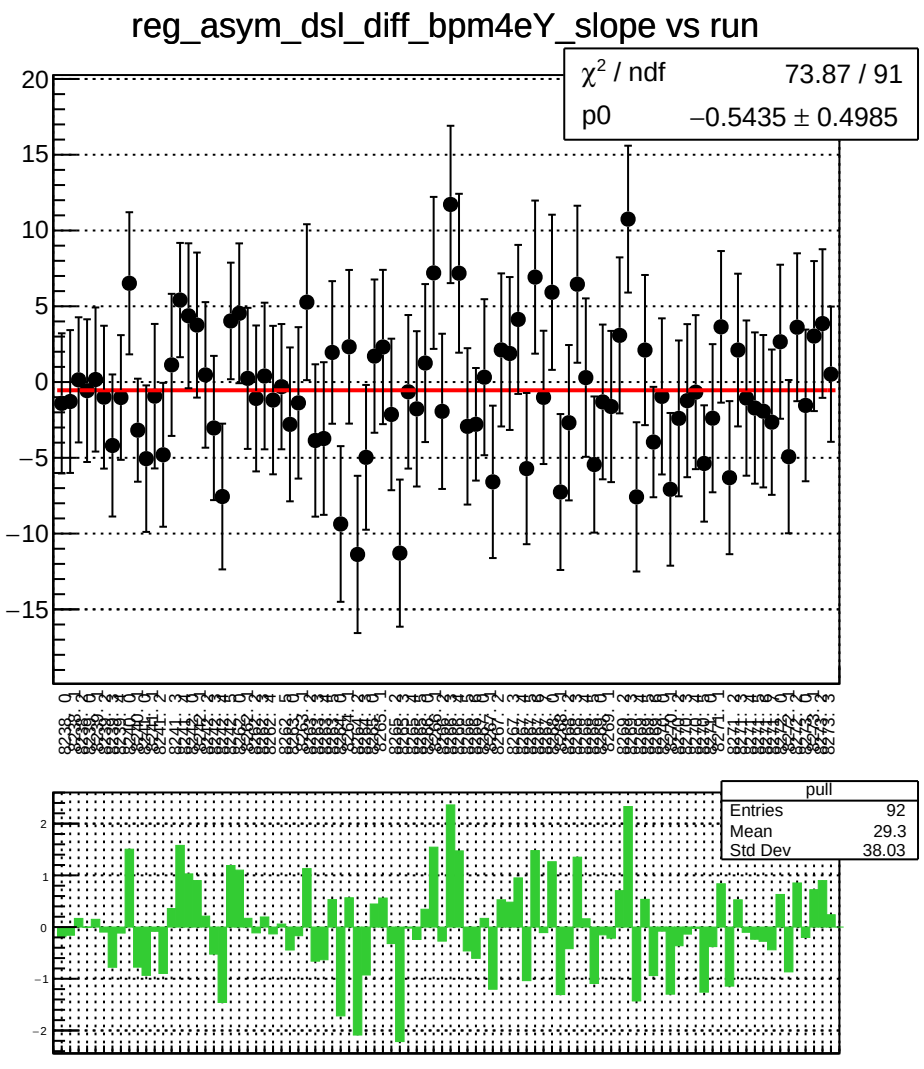

pull1D
Entries 92
Mean 0.01379
Std Dev 0.9659

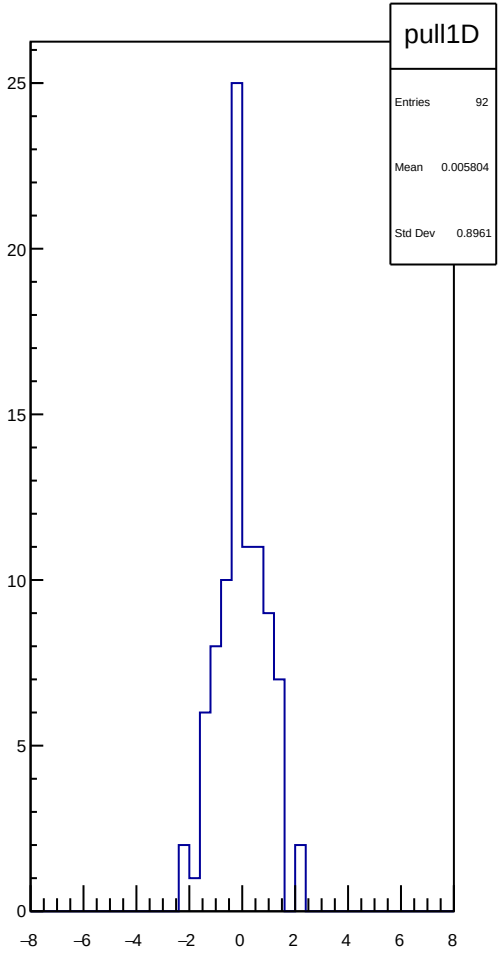

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 73.96 / 91
p0 0.5711 ± 0.479
pull
Entries 92
Mean 47.35
Std Dev 26.15

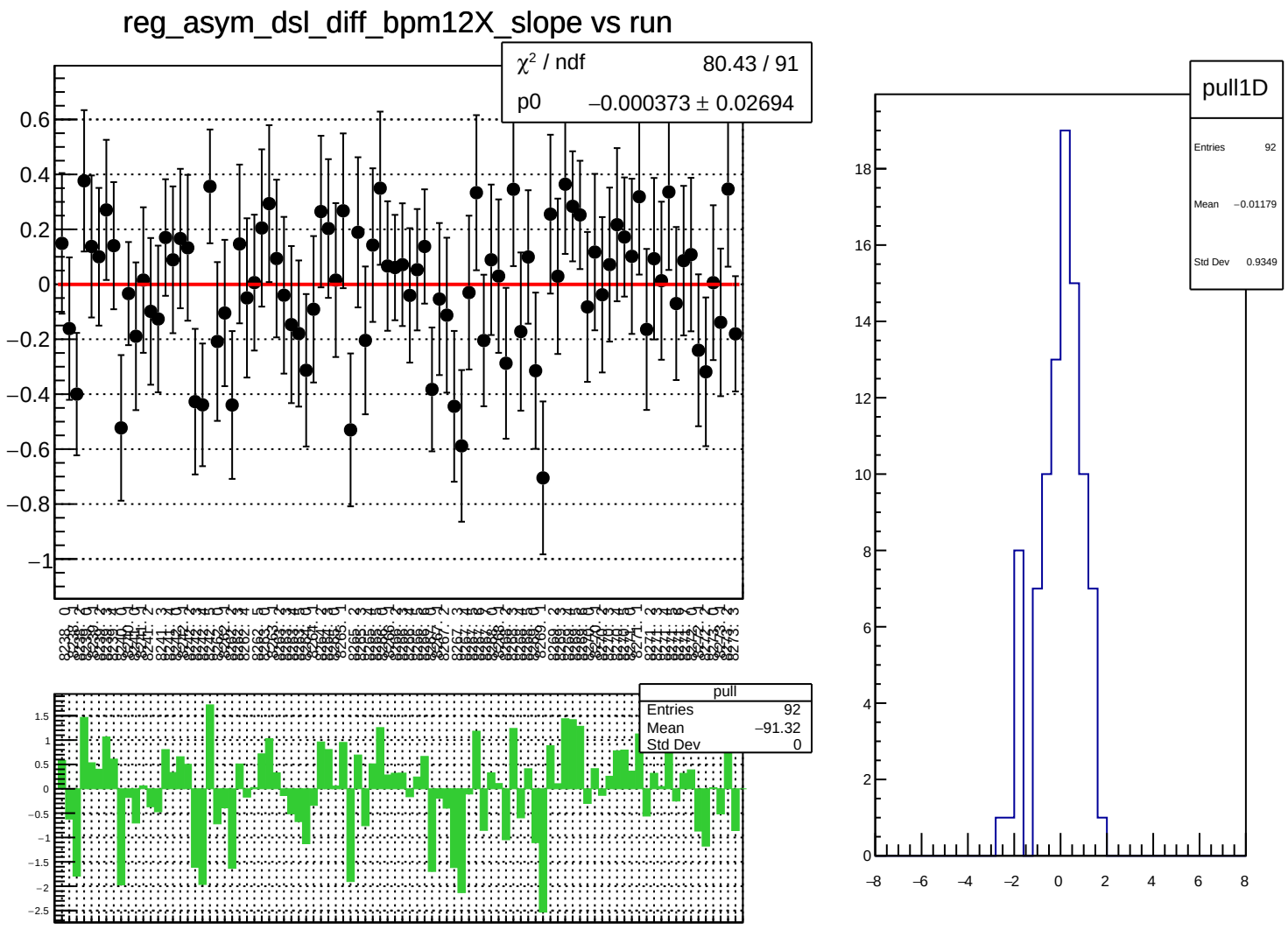

pull1D
Entries 92
Mean −0.006068
Std Dev 0.8966

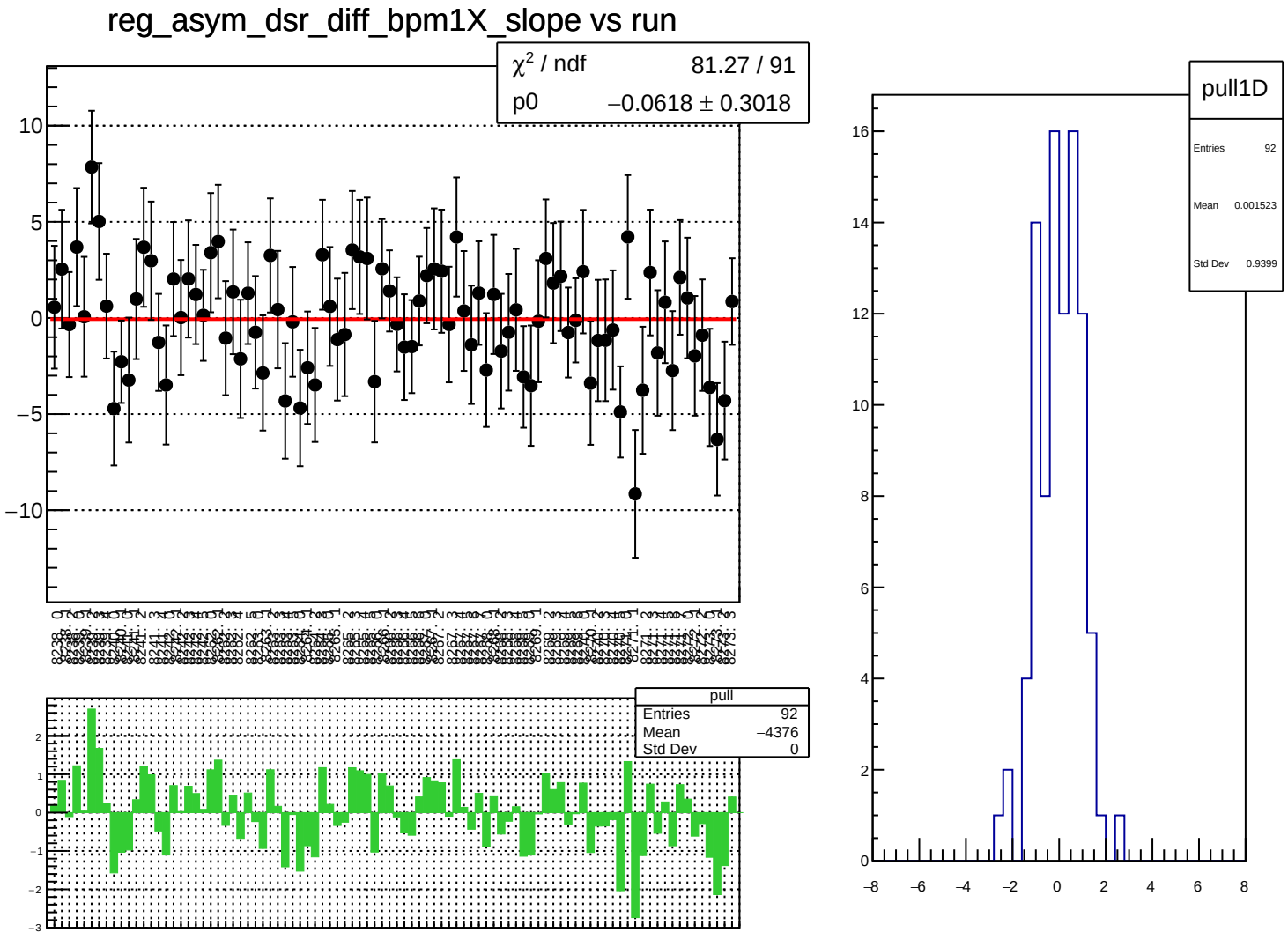

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 84.37 / 91
p0 −0.4312 ± 0.2566
pull
Entries 92
Mean −37.52
Std Dev 0

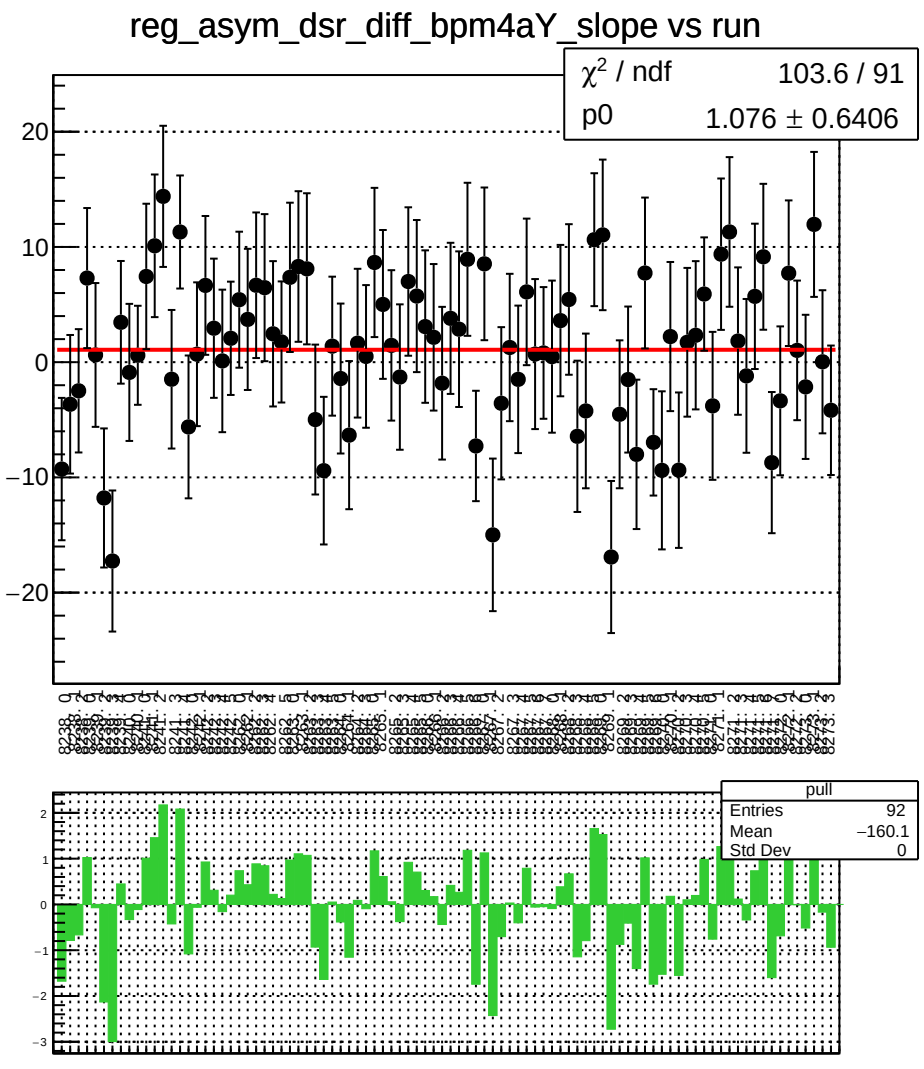

pull1D
Entries 92
Mean −0.0164
Std Dev 0.9575

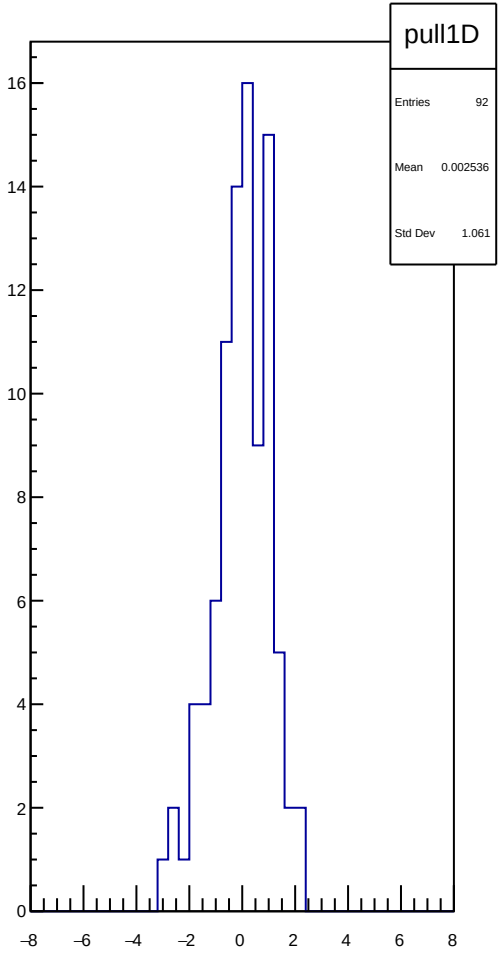

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 73.87 / 91
p0 −0.5435 ± 0.4985
pull
Entries 92
Mean 29.3
Std Dev 38.03

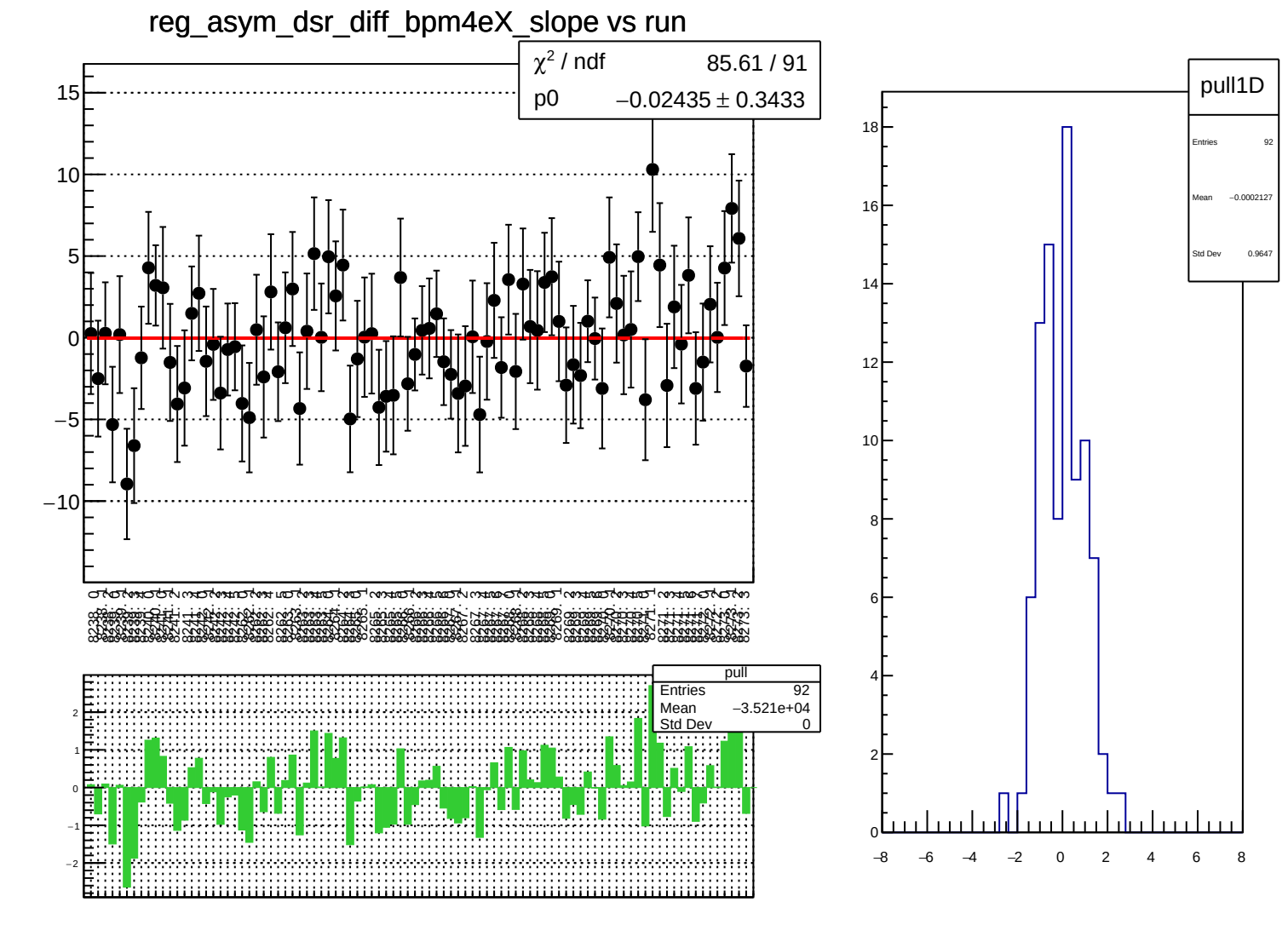

pull1D
Entries 92
Mean 0.005804
Std Dev 0.8961

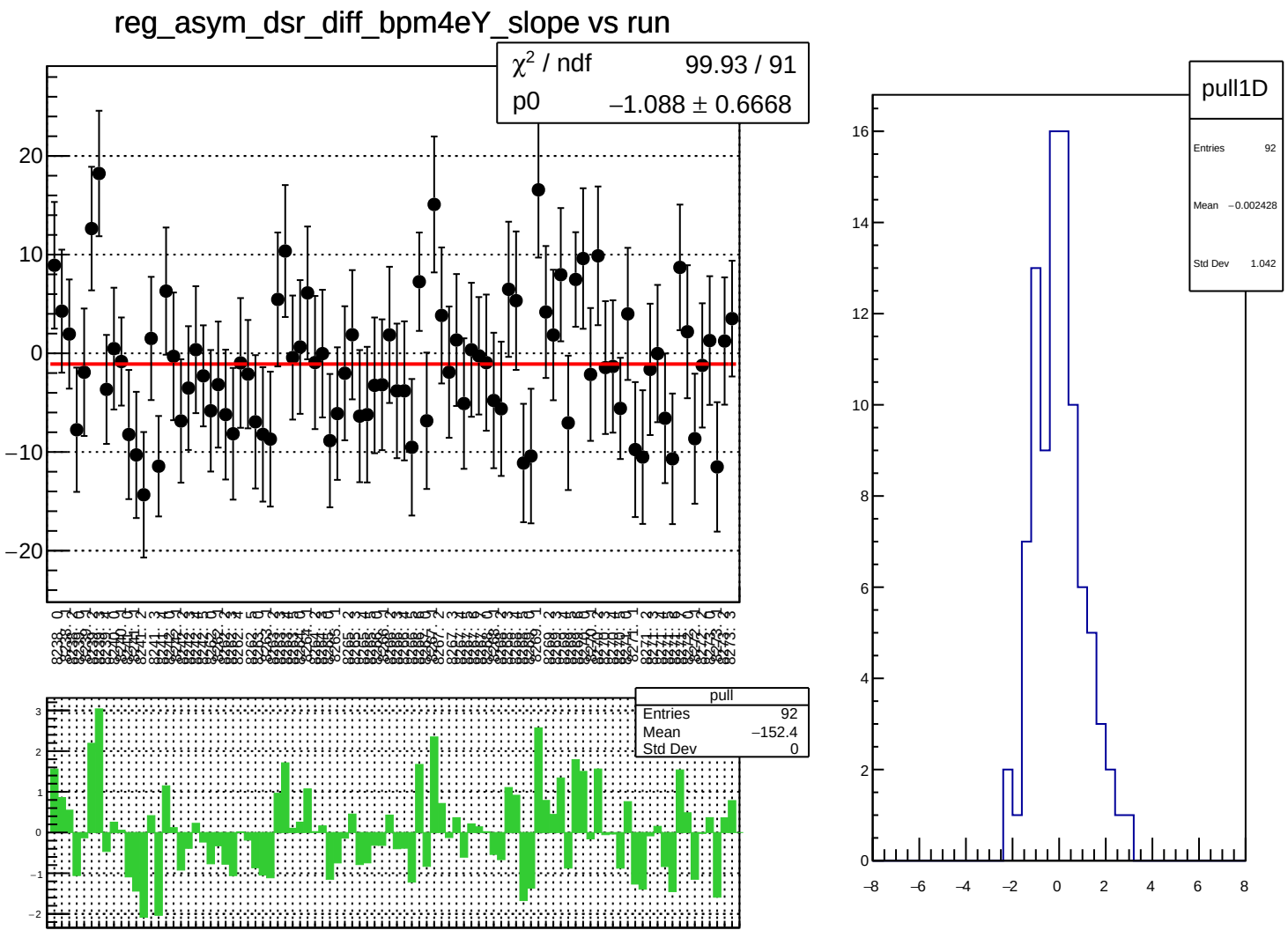

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 80.43 / 91
p0 −0.000373 ± 0.02694
pull
Entries 92
Mean −91.32
Std Dev 0
pull1D
Entries 92
Mean −0.01179
Std Dev 0.9349

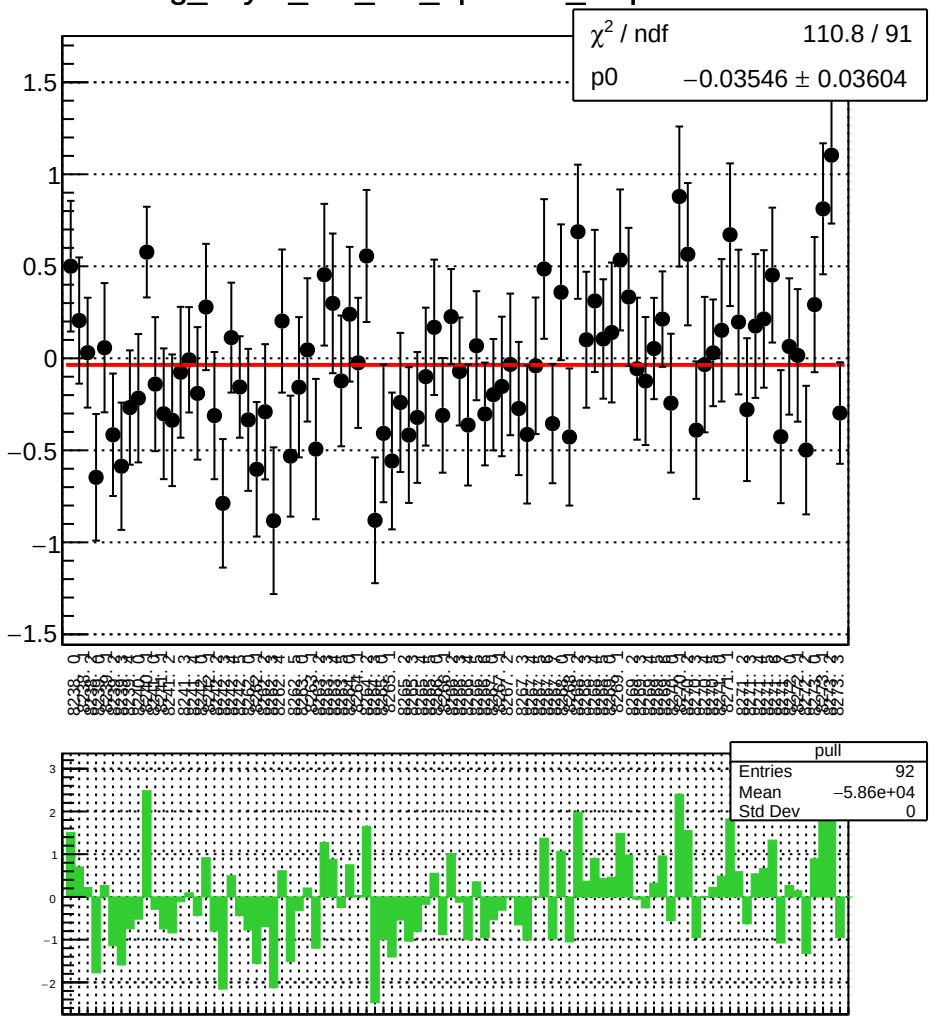

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 81.27 / 91
p0 −0.0618 ± 0.3018
pull
Entries 92
Mean −4376
Std Dev 0
pull1D
Entries 92
Mean 0.001523
Std Dev 0.9399

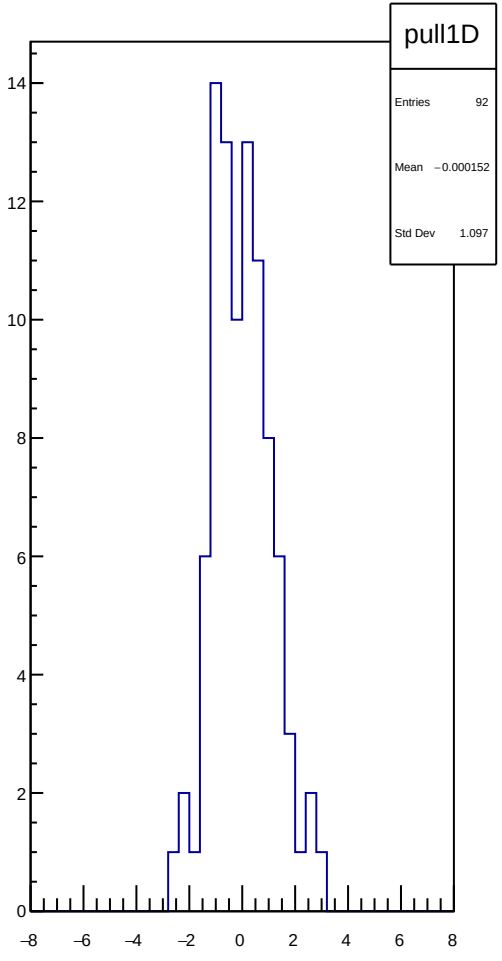

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 103.6 / 91
p0 1.076 ± 0.6406
pull
Entries 92
Mean −160.1
Std Dev 0

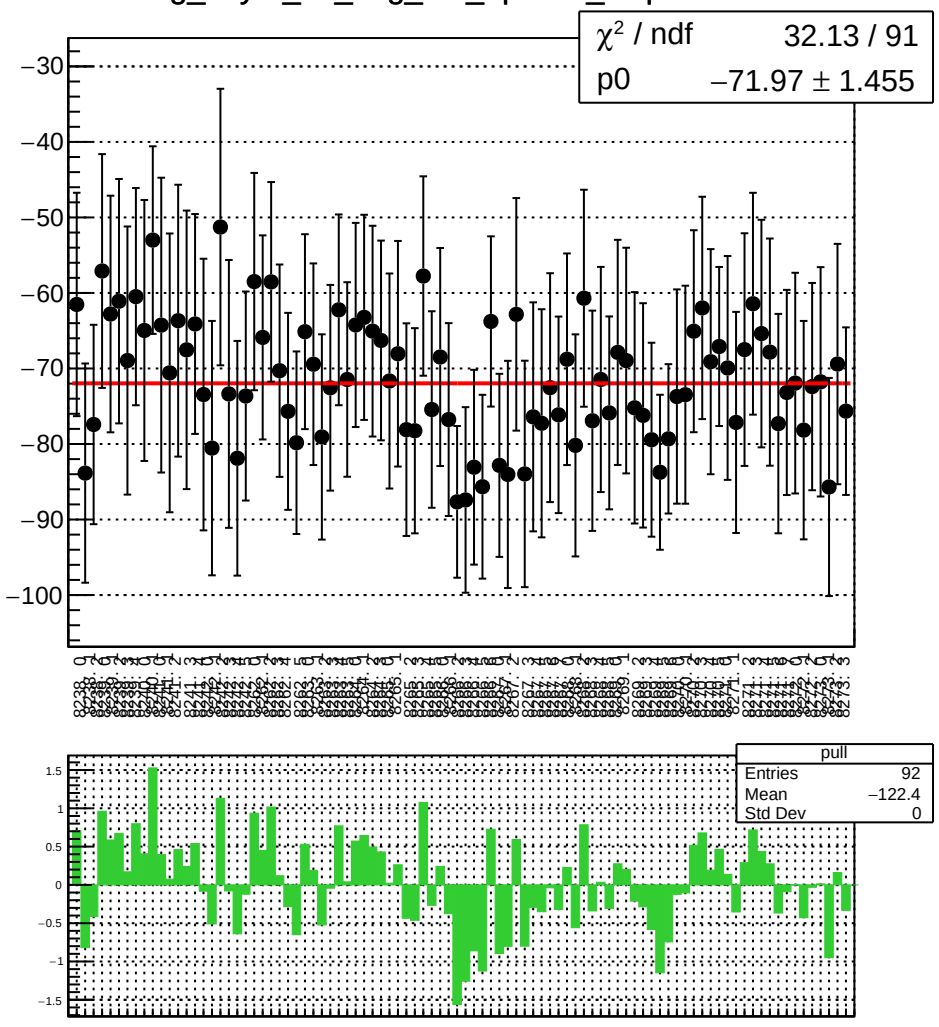

pull1D
Entries 92
Mean 0.002536
Std Dev 1.061

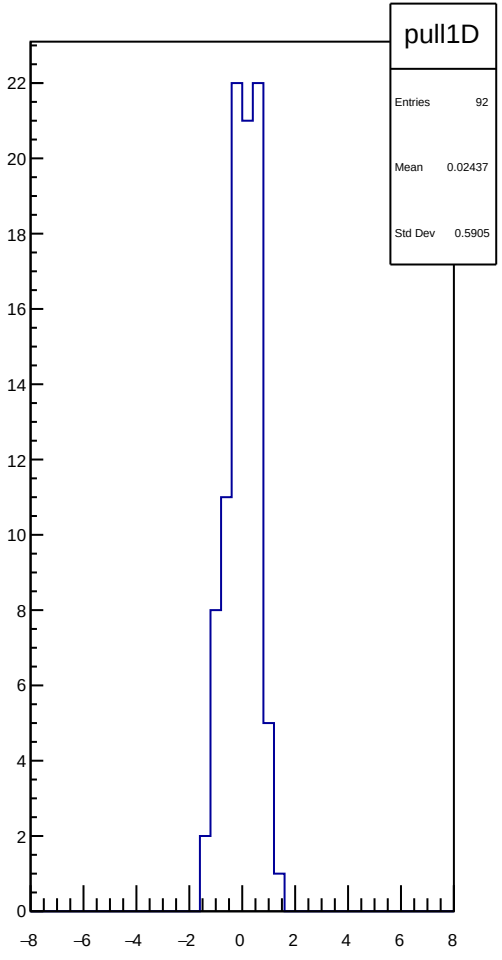

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 85.61 / 91
p0 −0.02435 ± 0.3433
pull
Entries 92
Mean −3.521e+04
Std Dev 0
pull1D
Entries 92
Mean −0.0002127
Std Dev 0.9647

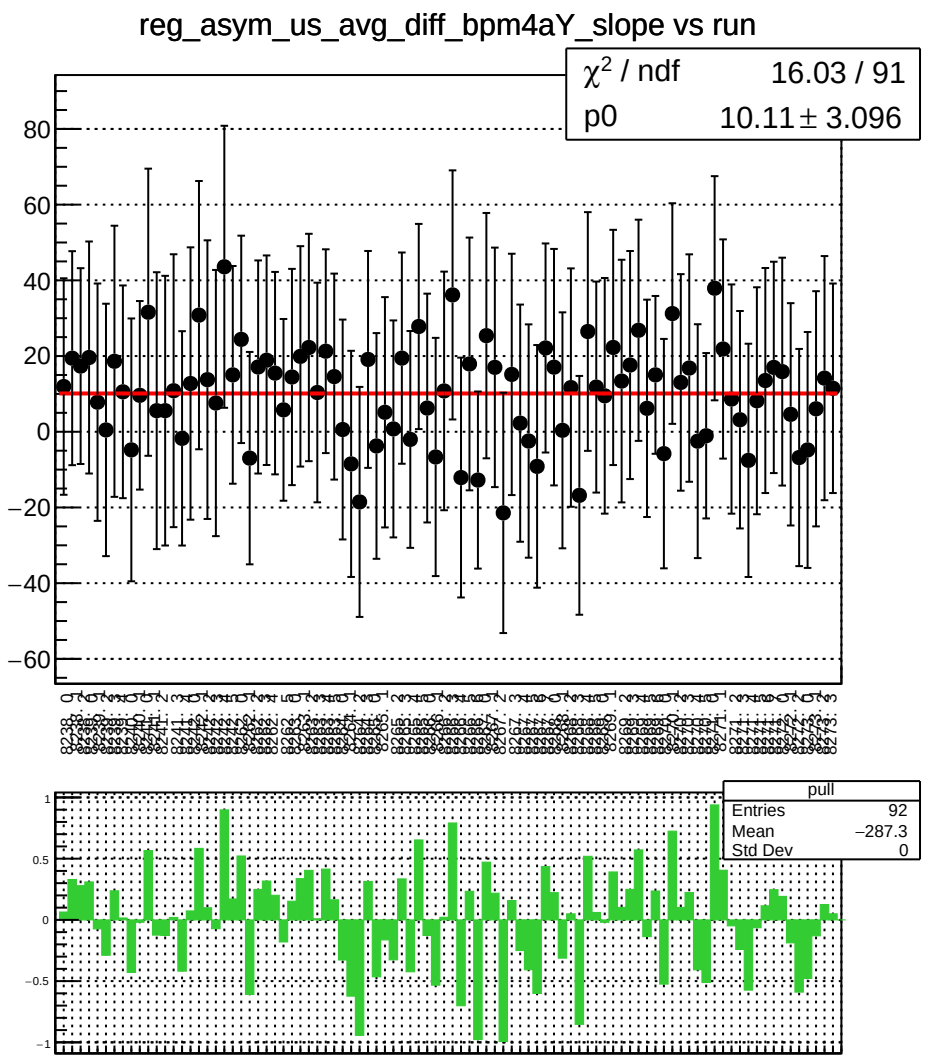

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 99.93 / 91
p0 −1.088 ± 0.6668
pull
Entries 92
Mean −152.4
Std Dev 0
pull1D
Entries 92
Mean −0.002428
Std Dev 1.042

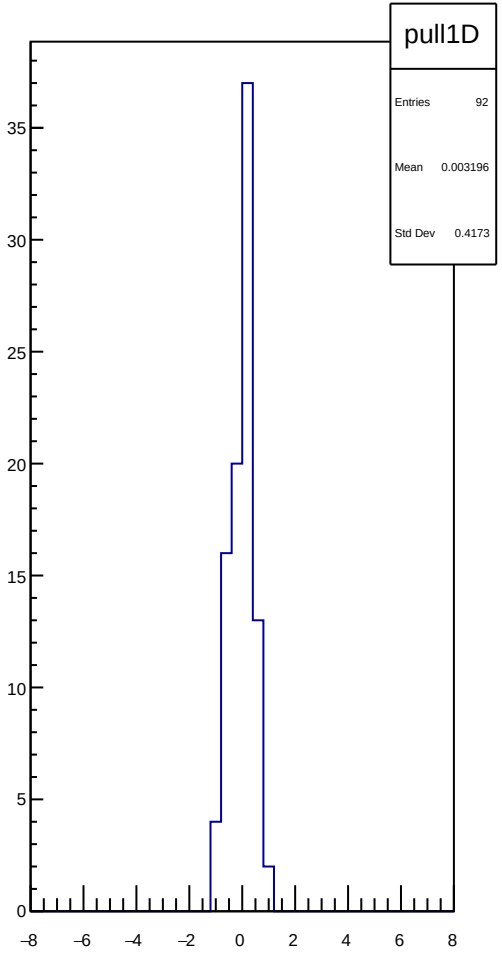

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 110.8 / 91
p0 −0.03546 ± 0.03604
pull
Entries 92
Mean −5.86e+04
Std Dev 0

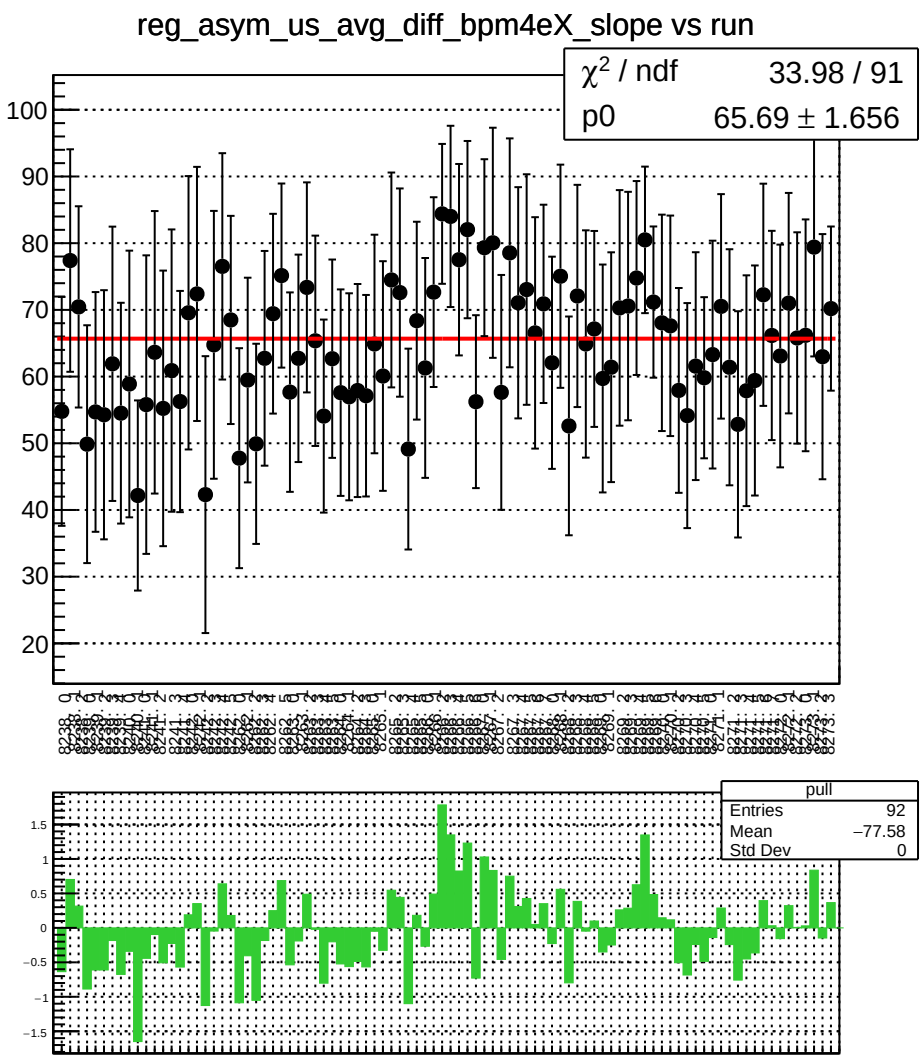

pull1D
Entries 92
Mean −0.000152
Std Dev 1.097

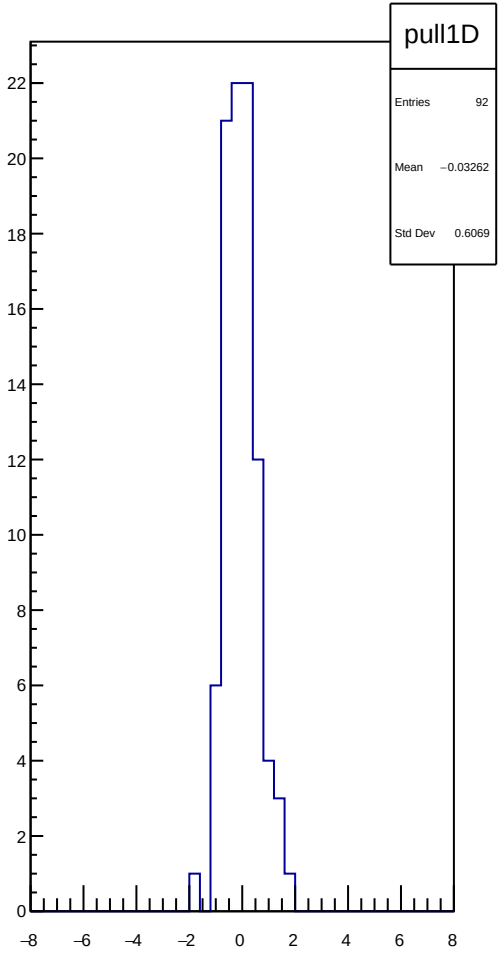

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 32.13 / 91
p0 −71.97 ± 1.455
pull
Entries 92
Mean −122.4
Std Dev 0

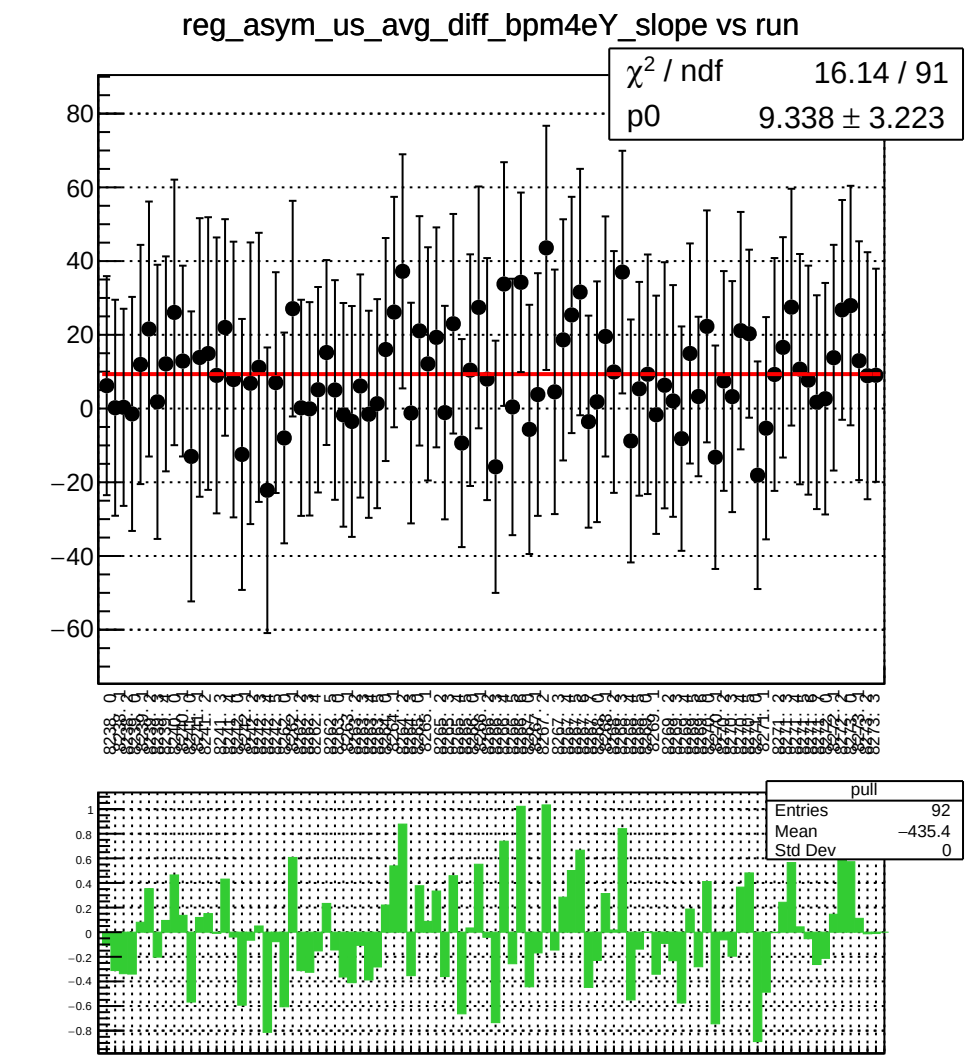

pull1D
Entries 92
Mean 0.02437
Std Dev 0.5905

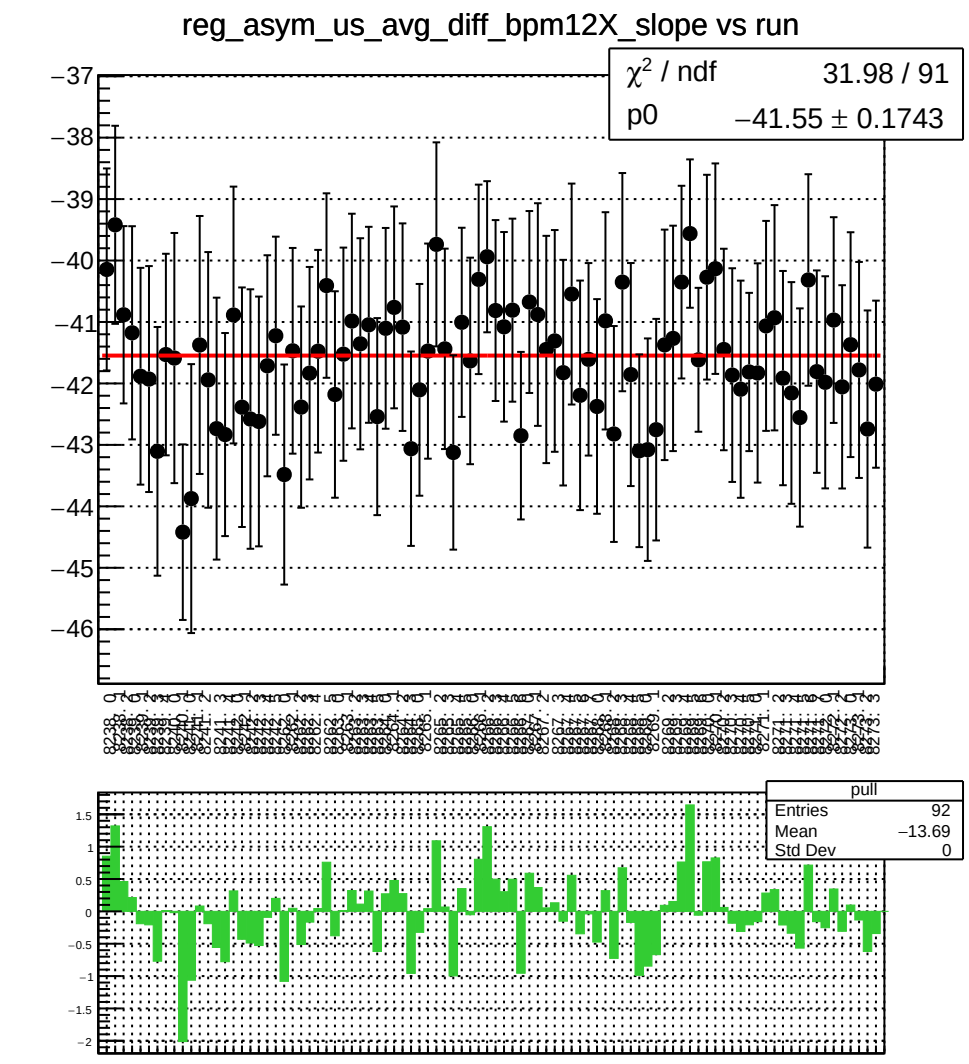

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.03 / 91
p0 10.11 ± 3.096
pull
Entries 92
Mean −287.3
Std Dev 0

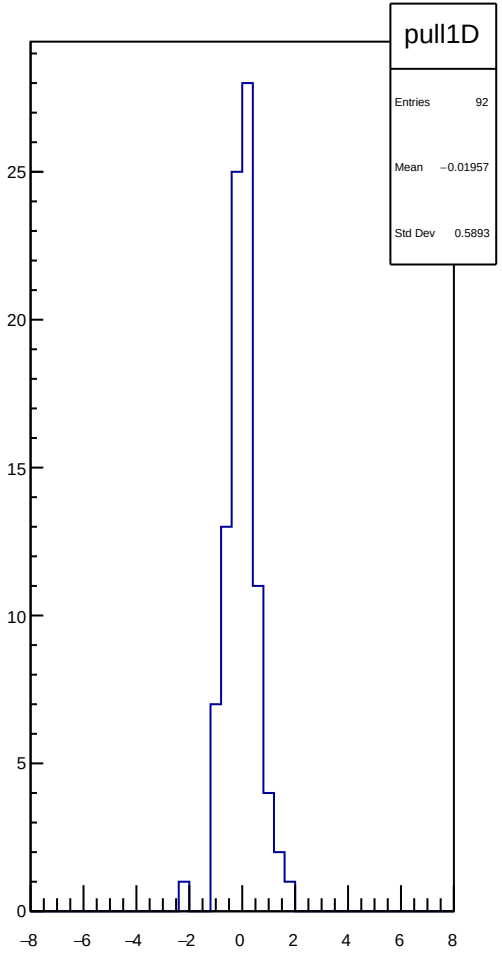

pull1D
Entries 92
Mean 0.003196
Std Dev 0.4173

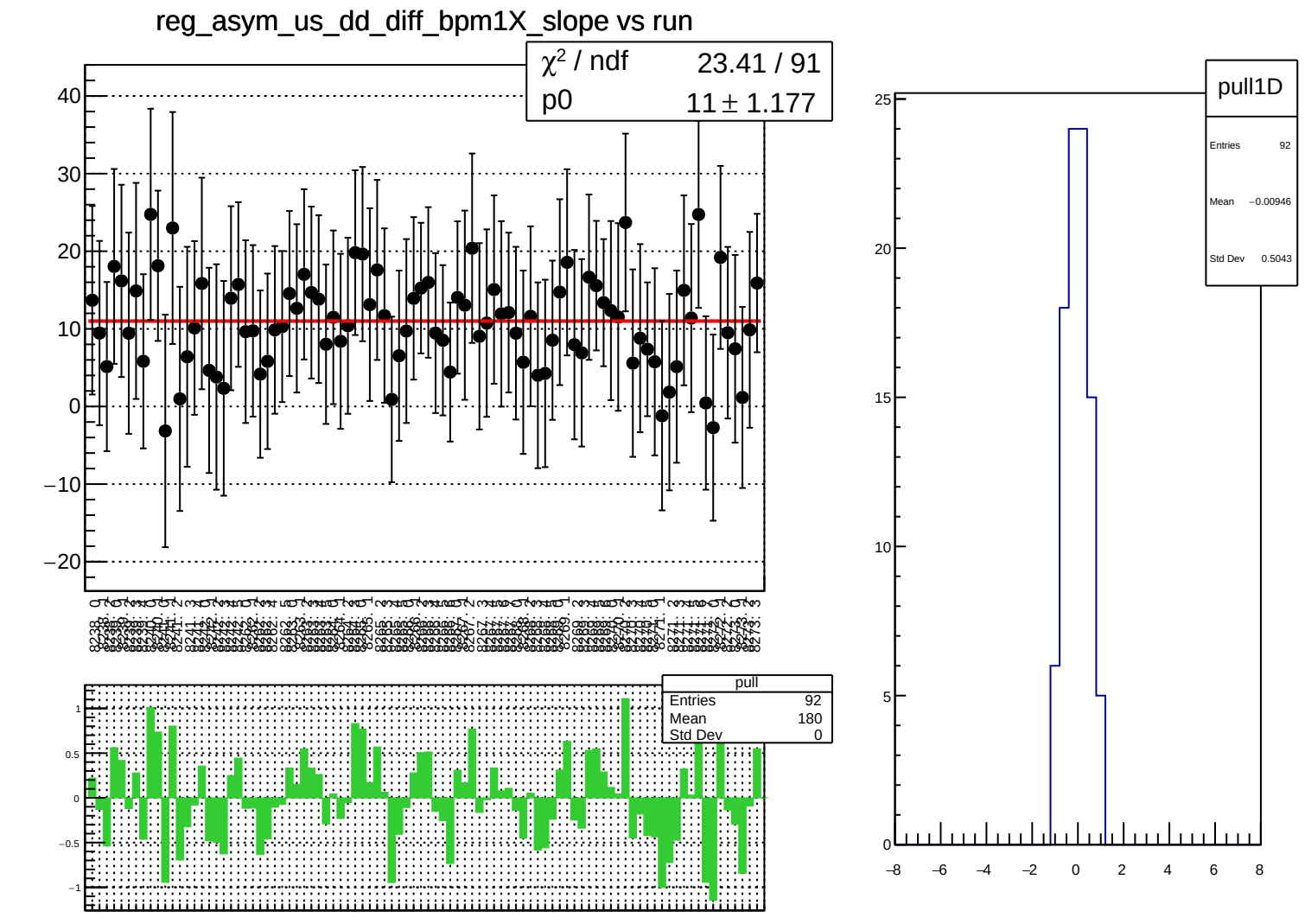

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.98 / 91
p0 65.69 ± 1.656
pull
Entries 92
Mean −77.58
Std Dev 0

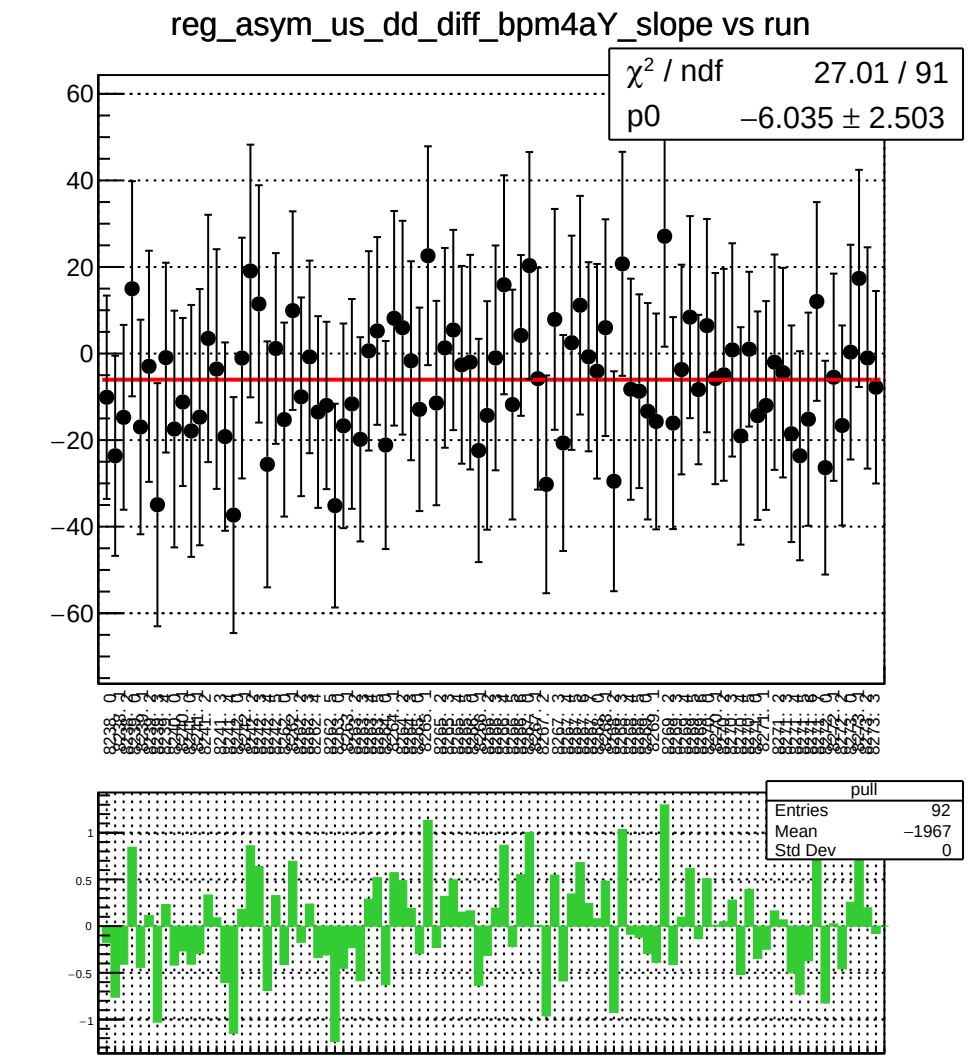

pull1D
Entries 92
Mean −0.03262
Std Dev 0.6069

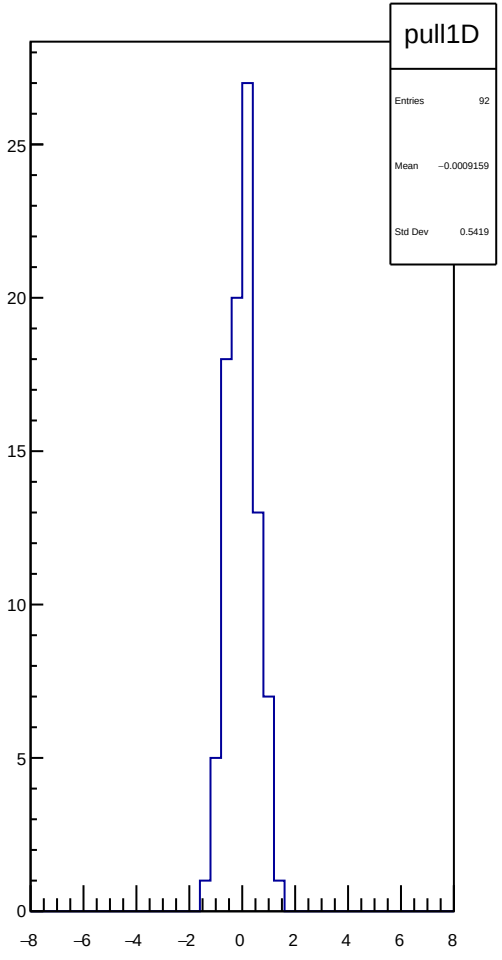

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.14 / 91
p0 9.338 ± 3.223
pull
Entries 92
Mean −435.4
Std Dev 0
pull1D
Entries 92
Mean −0.002156
Std Dev 0.4188

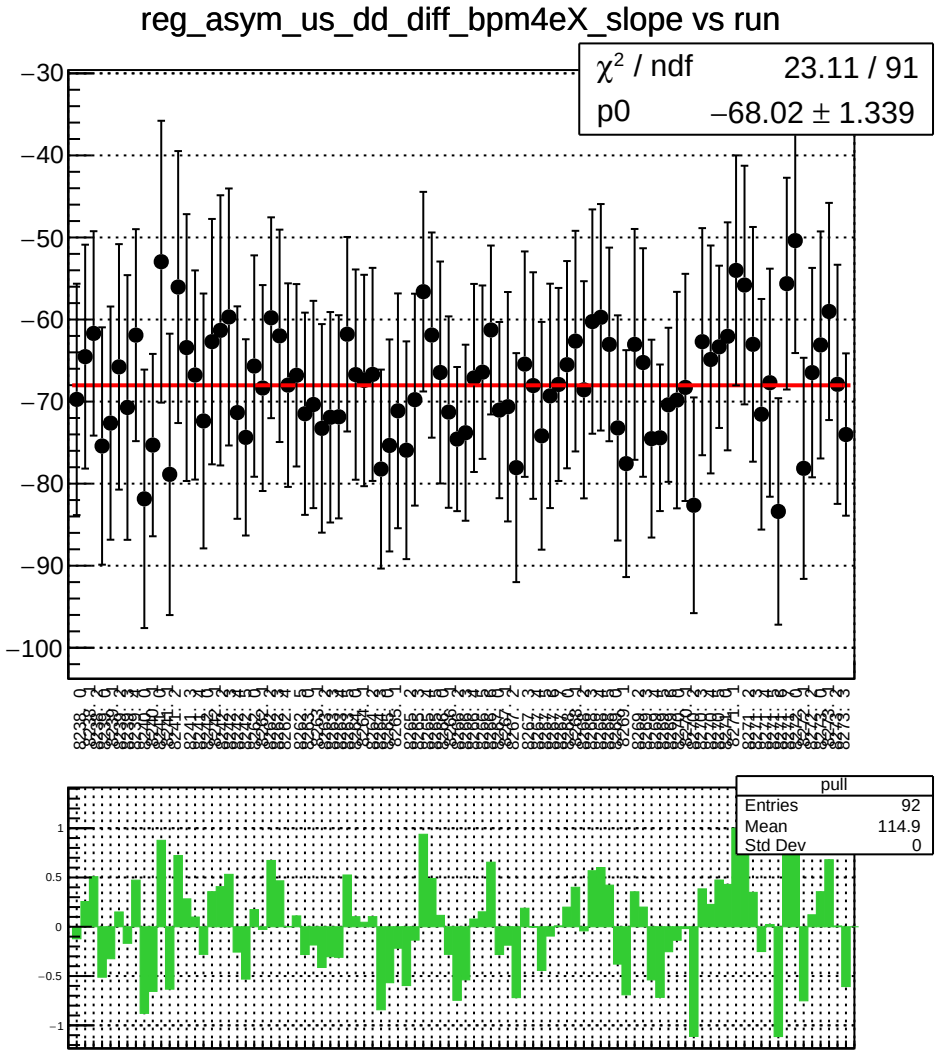

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 31.98 / 91
p0 −41.55 ± 0.1743
pull
Entries 92
Mean −13.69
Std Dev 0

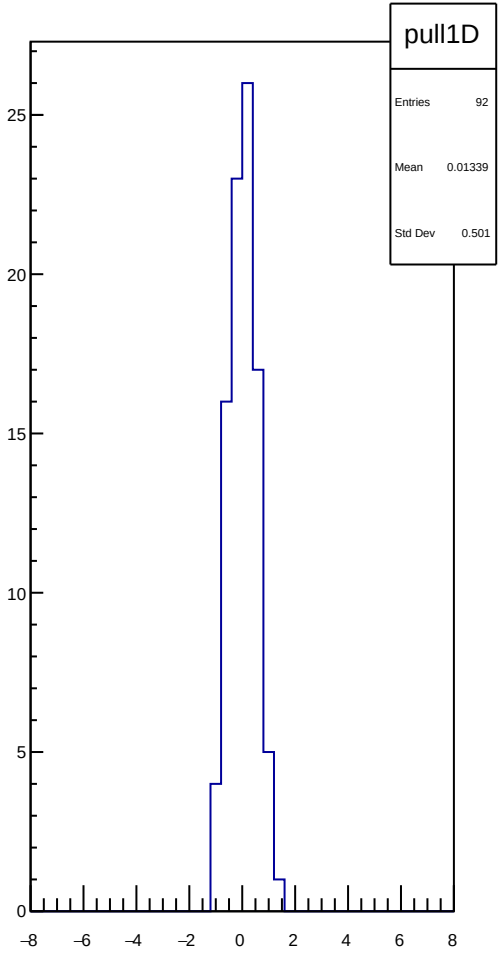

pull1D
Entries 92
Mean −0.01957
Std Dev 0.5893

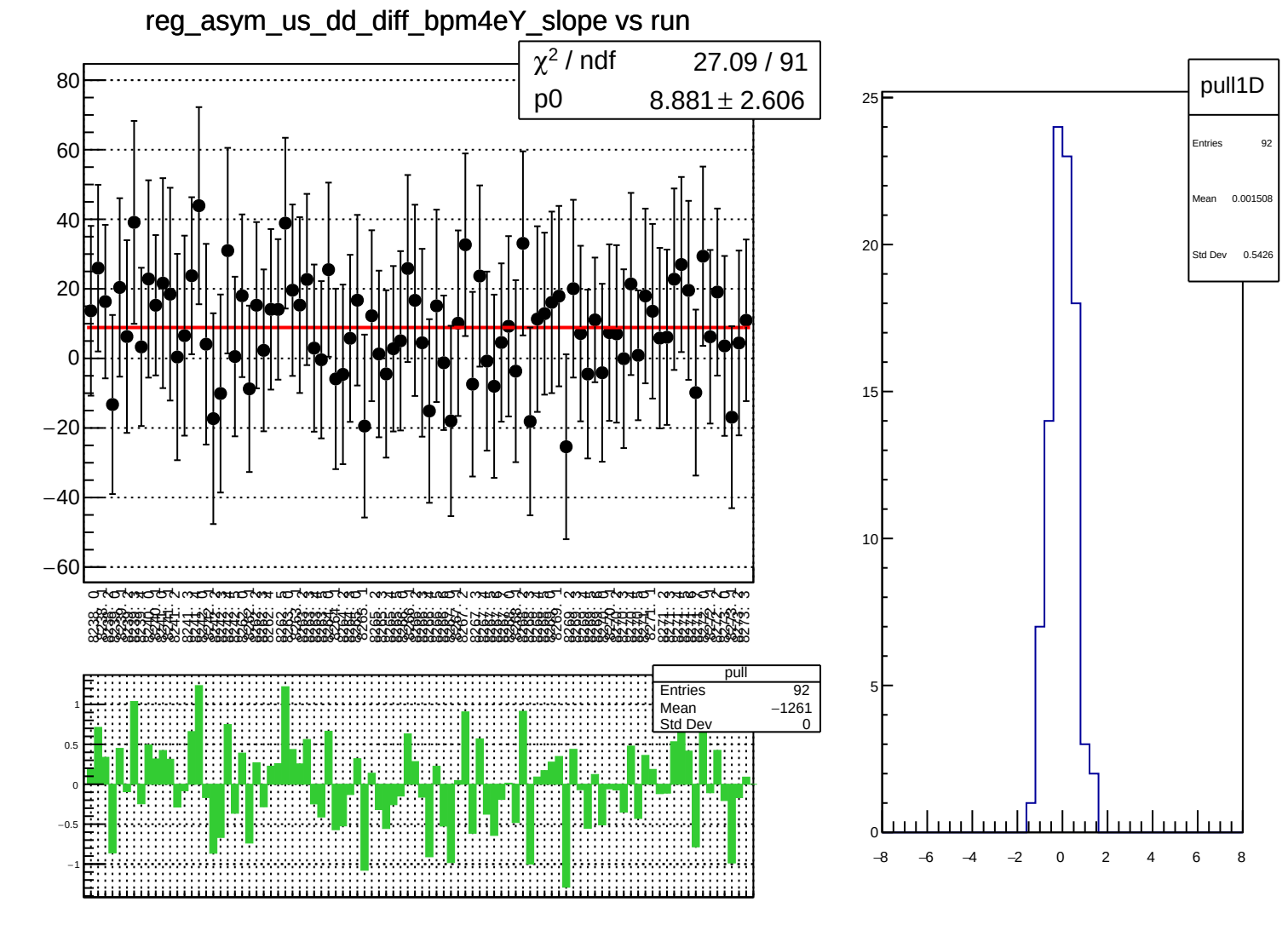

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 23.41 / 91
p0 11 ± 1.177
pull
Entries 92
Mean 180
Std Dev 0
pull1D
Entries 92
Mean −0.00946
Std Dev 0.5043

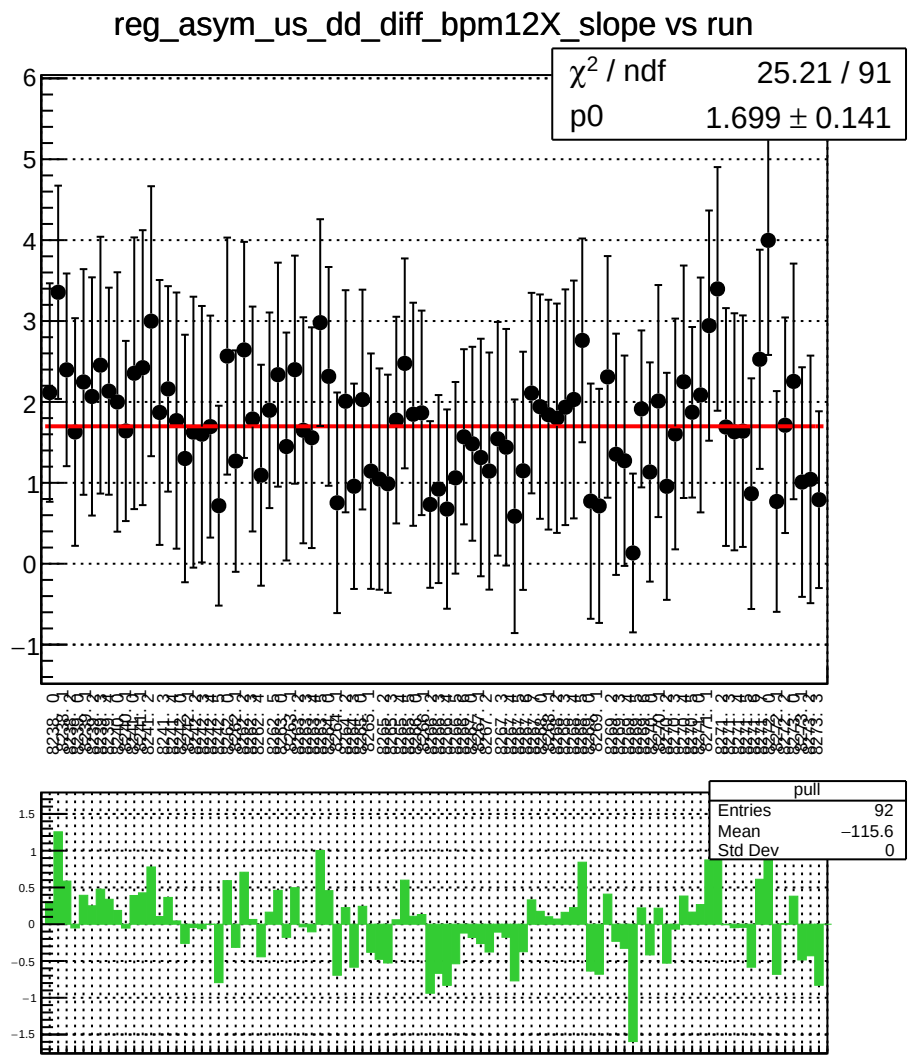

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.01 / 91
p0 −6.035 ± 2.503
pull
Entries 92
Mean −1967
Std Dev 0

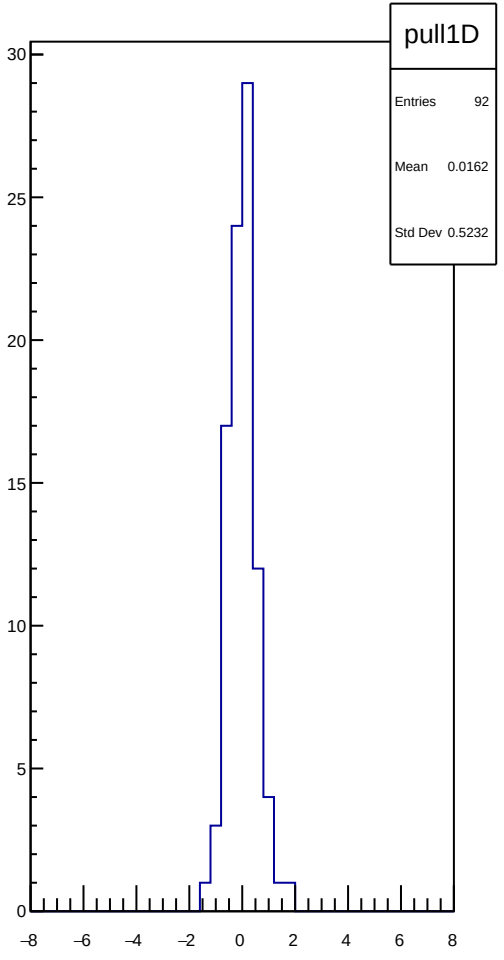

pull1D
Entries 92
Mean −0.0009159
Std Dev 0.5419

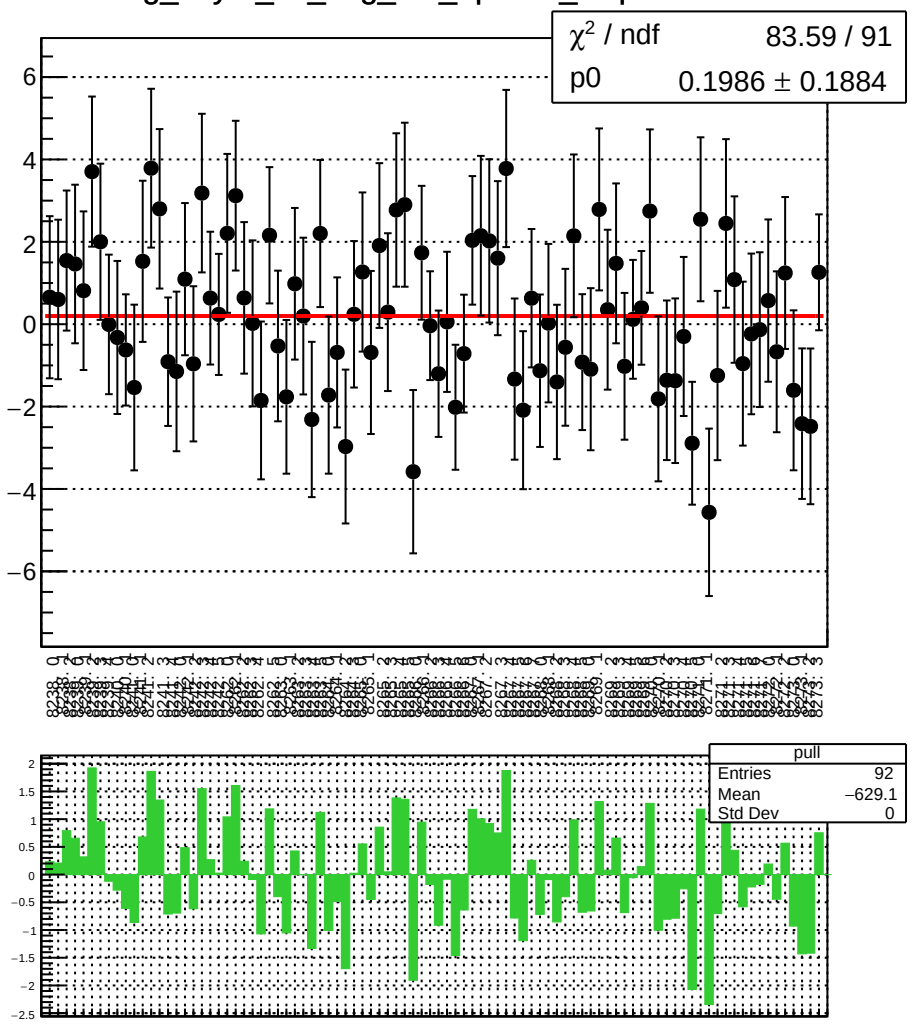

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.11 / 91
p0 −68.02 ± 1.339
pull
Entries 92
Mean 114.9
Std Dev 0

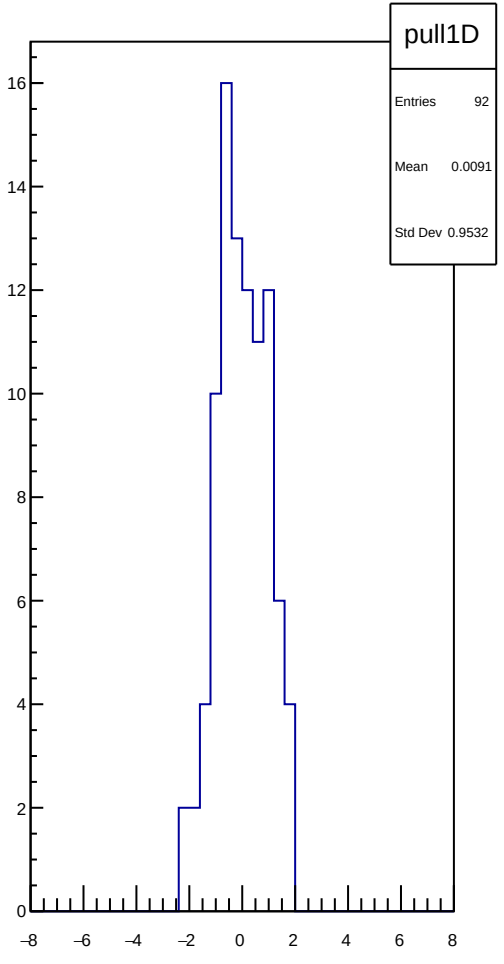

pull1D
Entries 92
Mean 0.01339
Std Dev 0.501

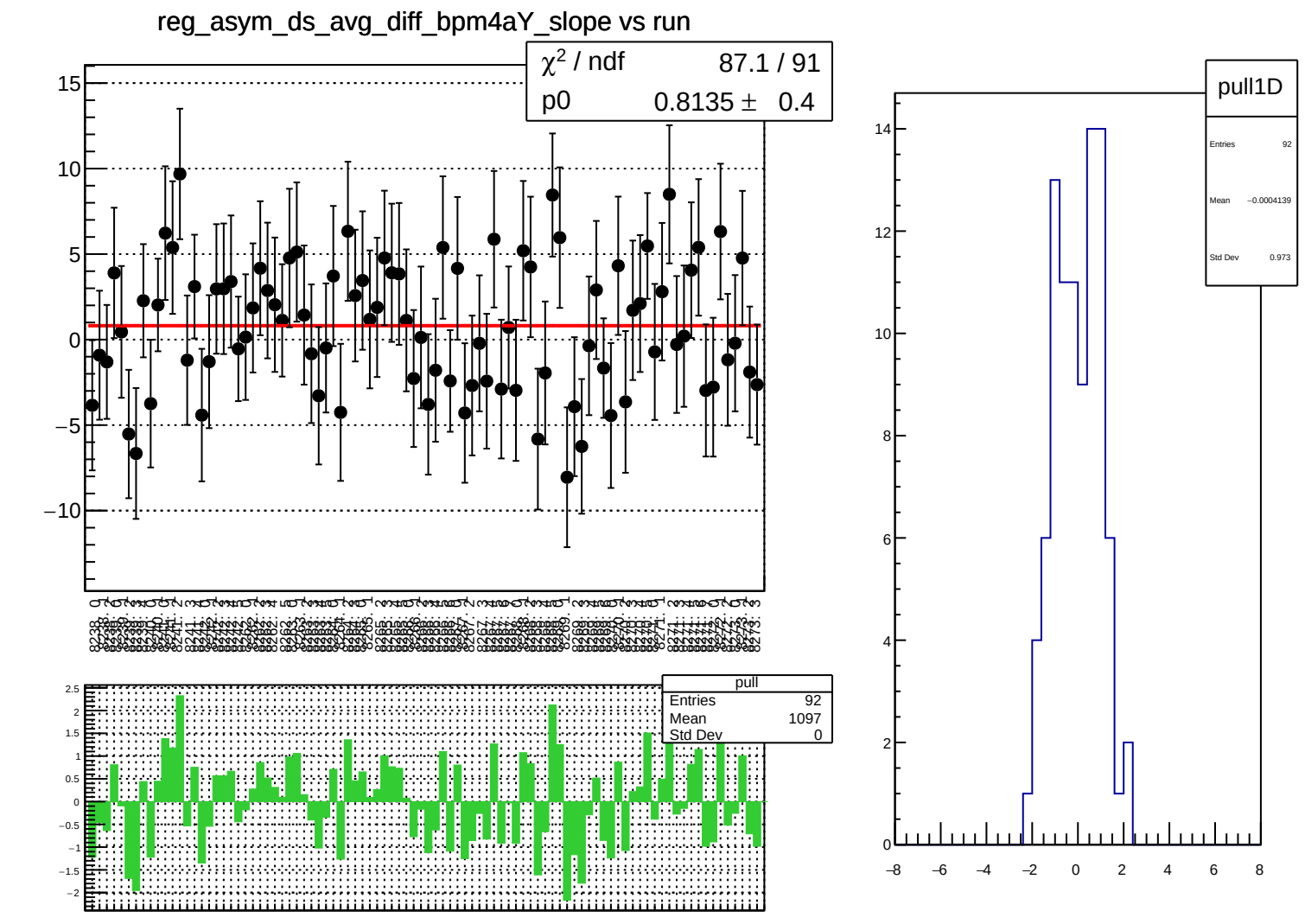

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.09 / 91
p0 8.881 ± 2.606
pull
Entries 92
Mean −1261
Std Dev 0
pull1D
Entries 92
Mean 0.001508
Std Dev 0.5426

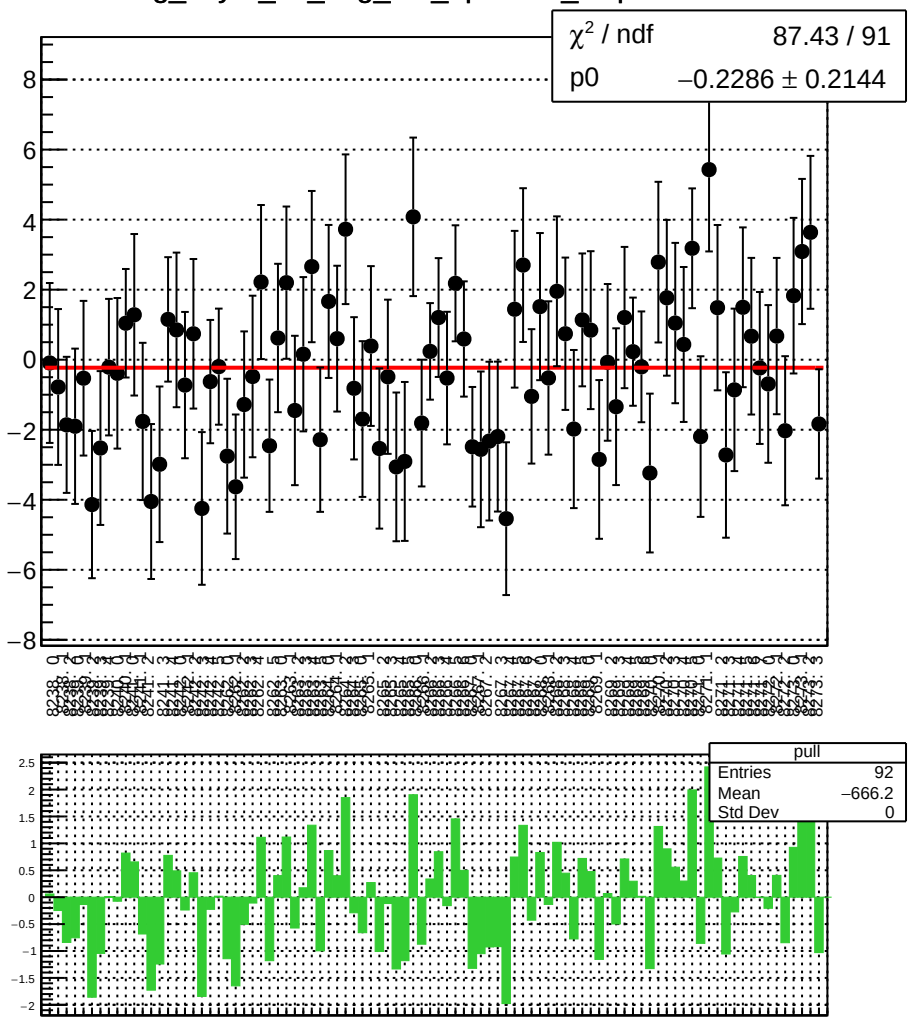

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 25.21 / 91
p0 1.699 ± 0.141
pull
Entries 92
Mean −115.6
Std Dev 0

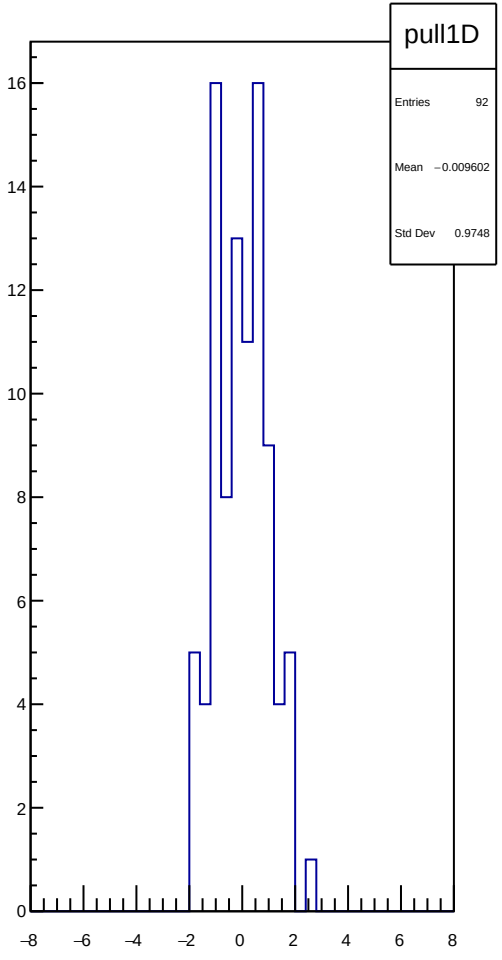

pull1D
Entries 92
Mean 0.0162
Std Dev 0.5232

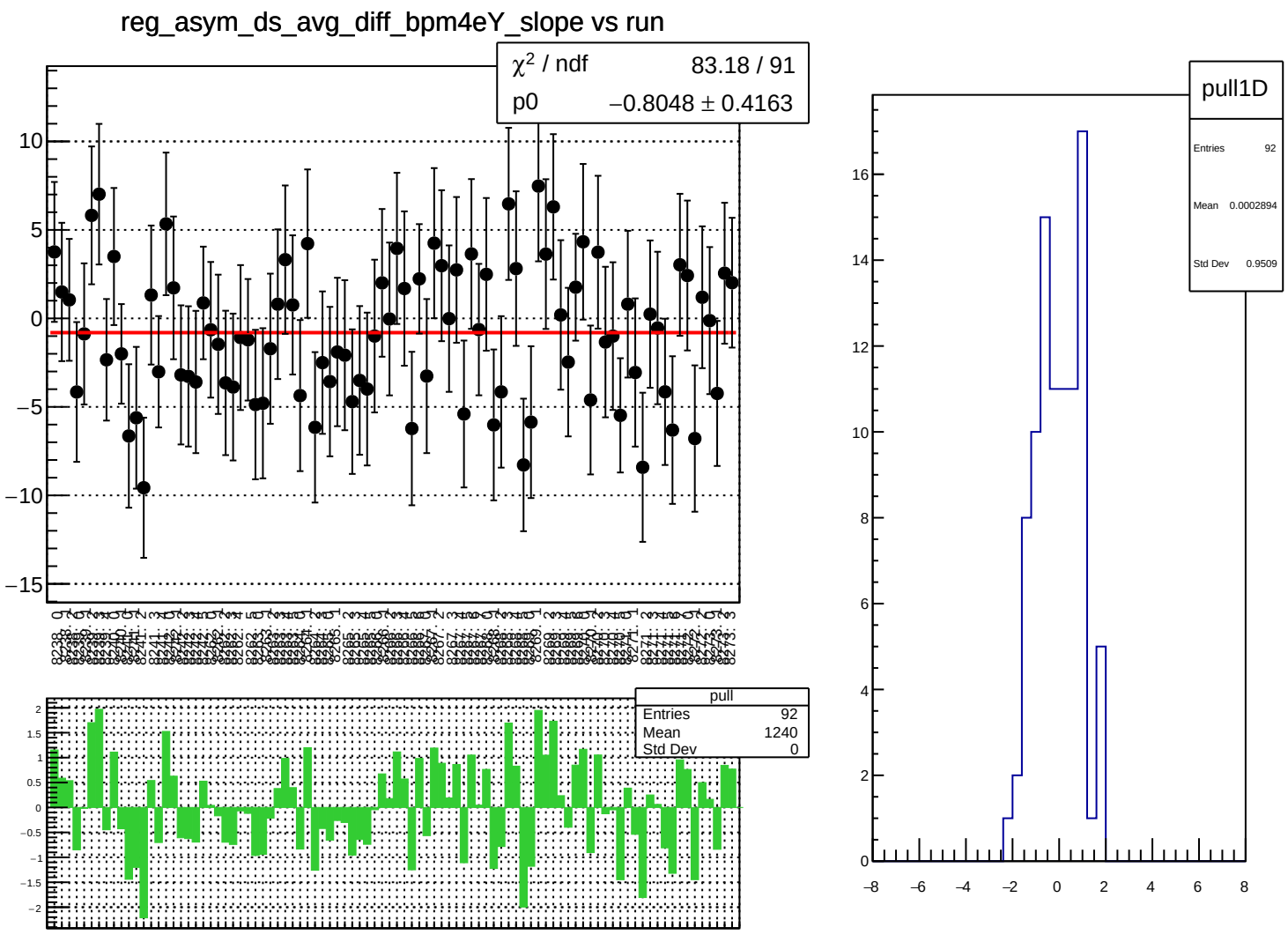

reg_asym_ds_avg_diff_bpm1X_slope vs run
$\chi^2$ / ndf 83.59 / 91
p0 0.1986 ± 0.1884
pull
Entries 92
Mean −629.1
Std Dev 0

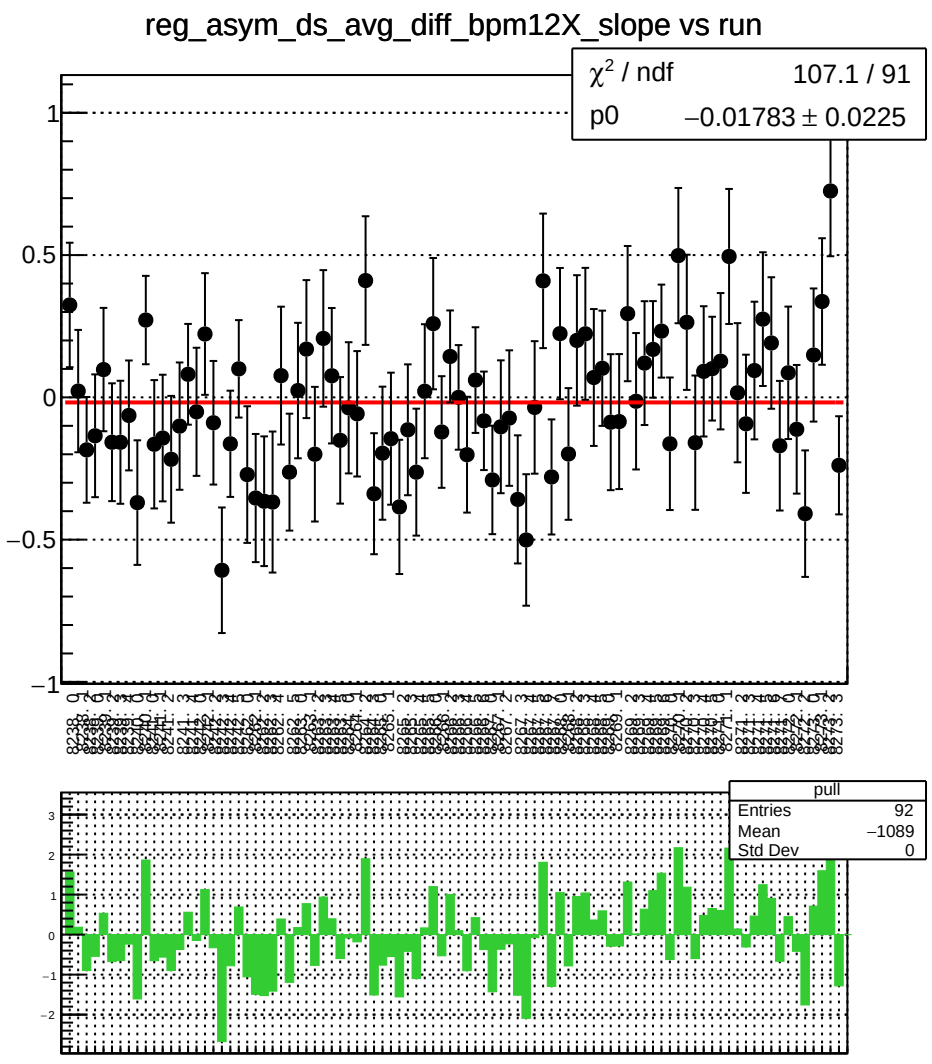

pull1D
Entries 92
Mean 0.0091
Std Dev 0.9532

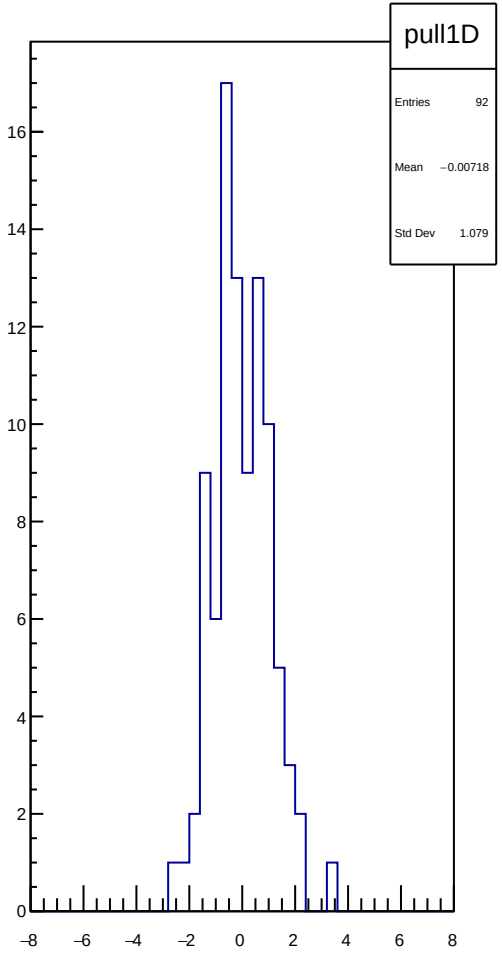

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 87.1 / 91
p0 0.8135 ± 0.4
pull
Entries 92
Mean 1097
Std Dev 0
pull1D
Entries 92
Mean −0.0004139
Std Dev 0.973

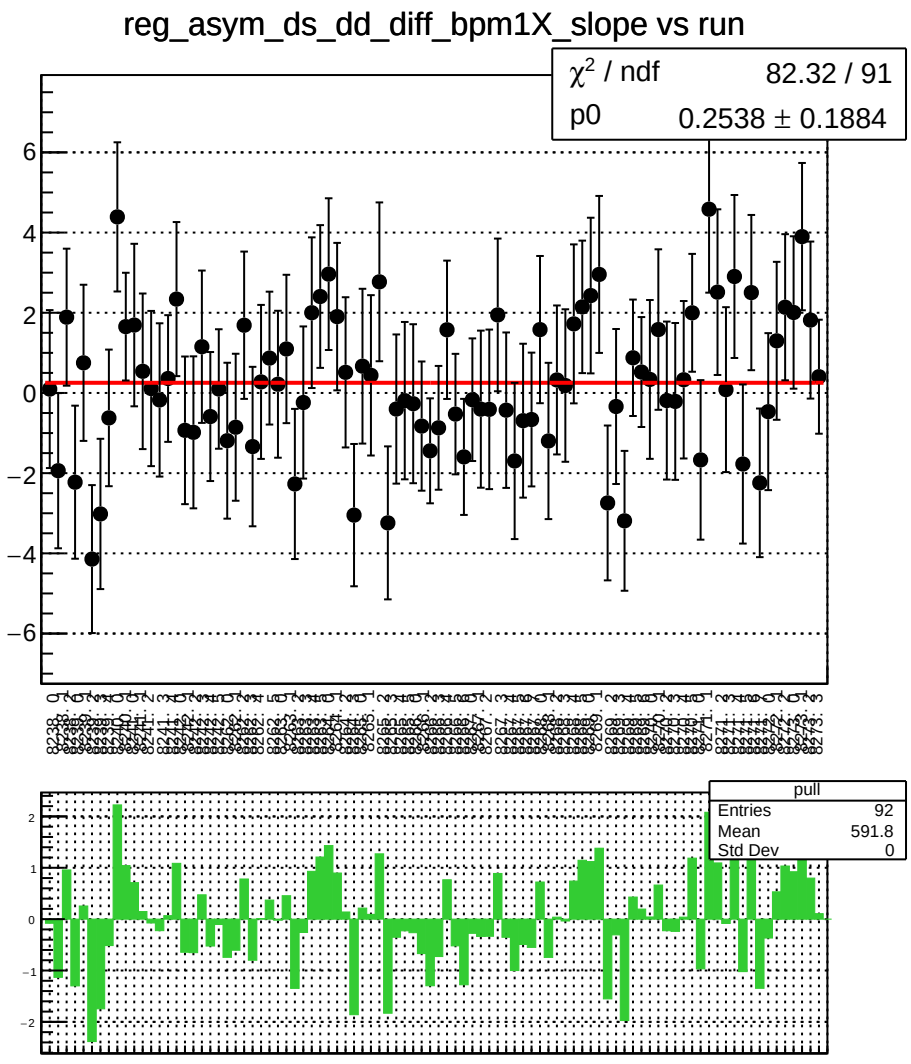

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 87.43 / 91
p0 −0.2286 ± 0.2144
pull
Entries 92
Mean −666.2
Std Dev 0

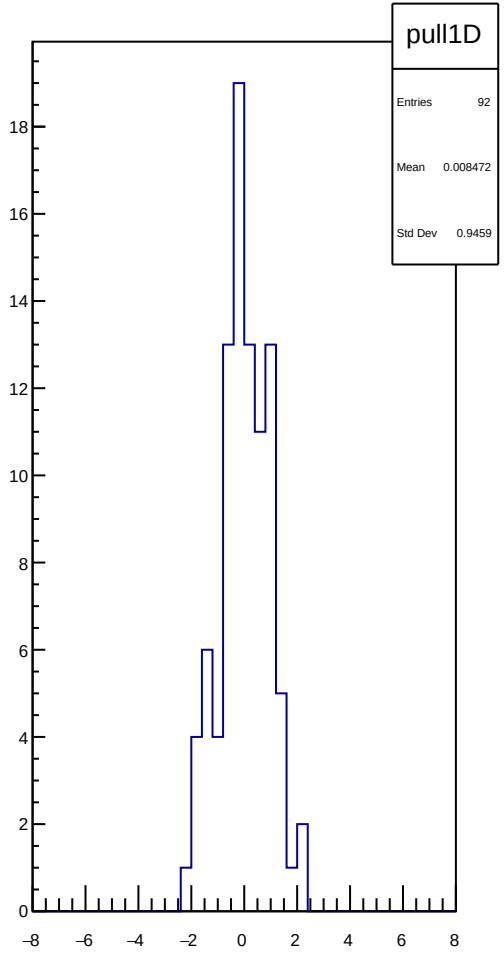

pull1D
Entries 92
Mean −0.009602
Std Dev 0.9748

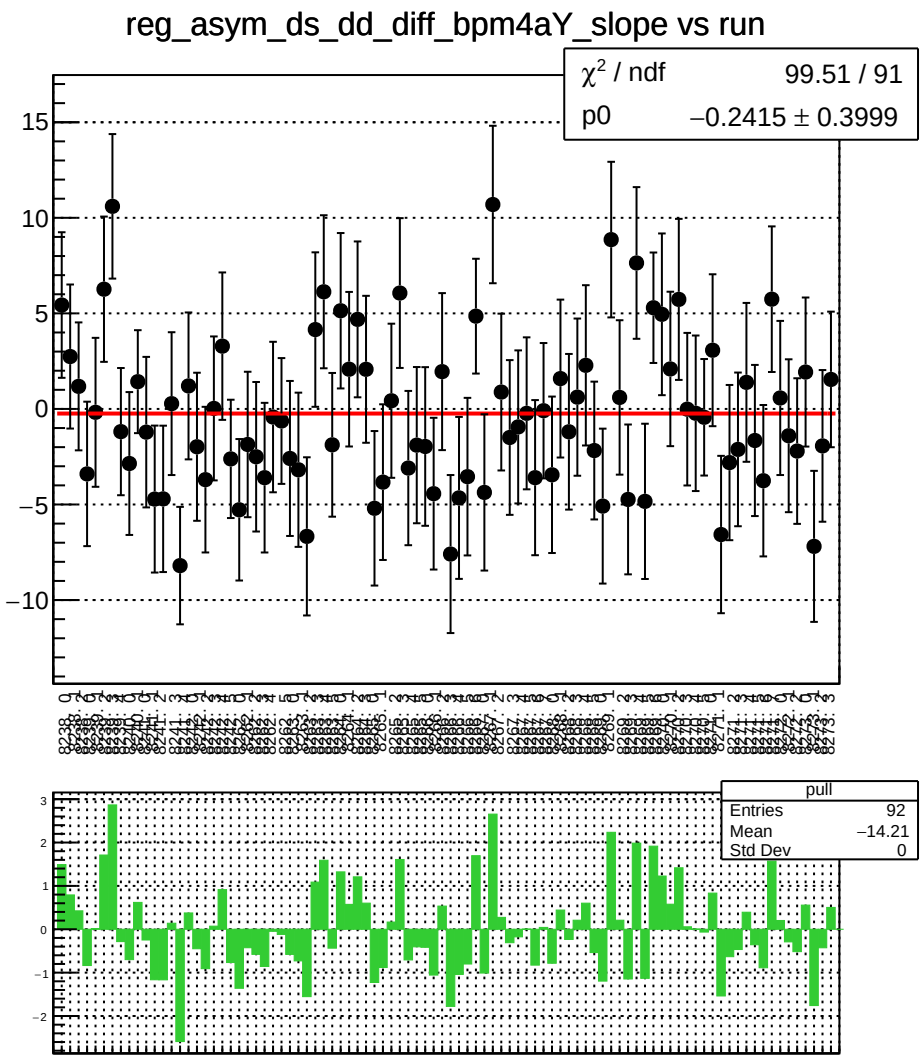

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 83.18 / 91
p0 −0.8048 ± 0.4163
pull
Entries 92
Mean 1240
Std Dev 0
pull1D
Entries 92
Mean 0.0002894
Std Dev 0.9509

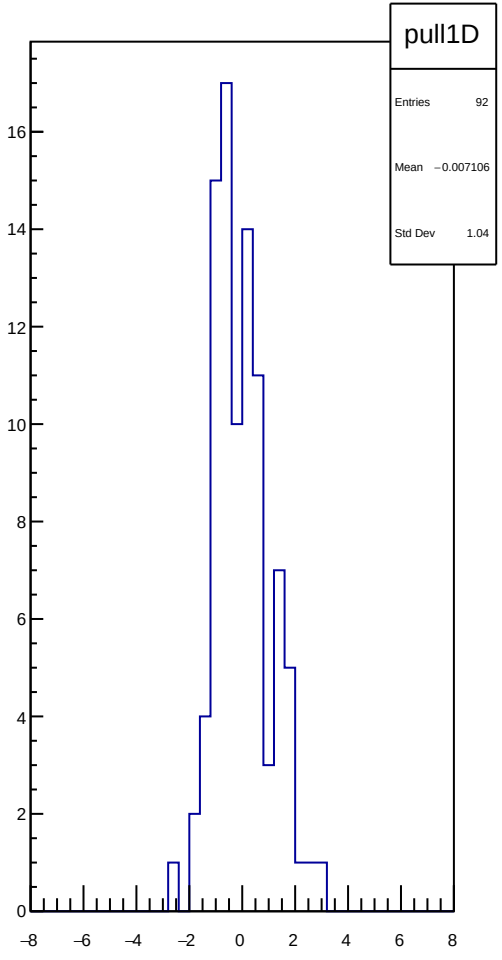

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 107.1 / 91
p0 −0.01783 ± 0.0225
pull
Entries 92
Mean −1089
Std Dev 0

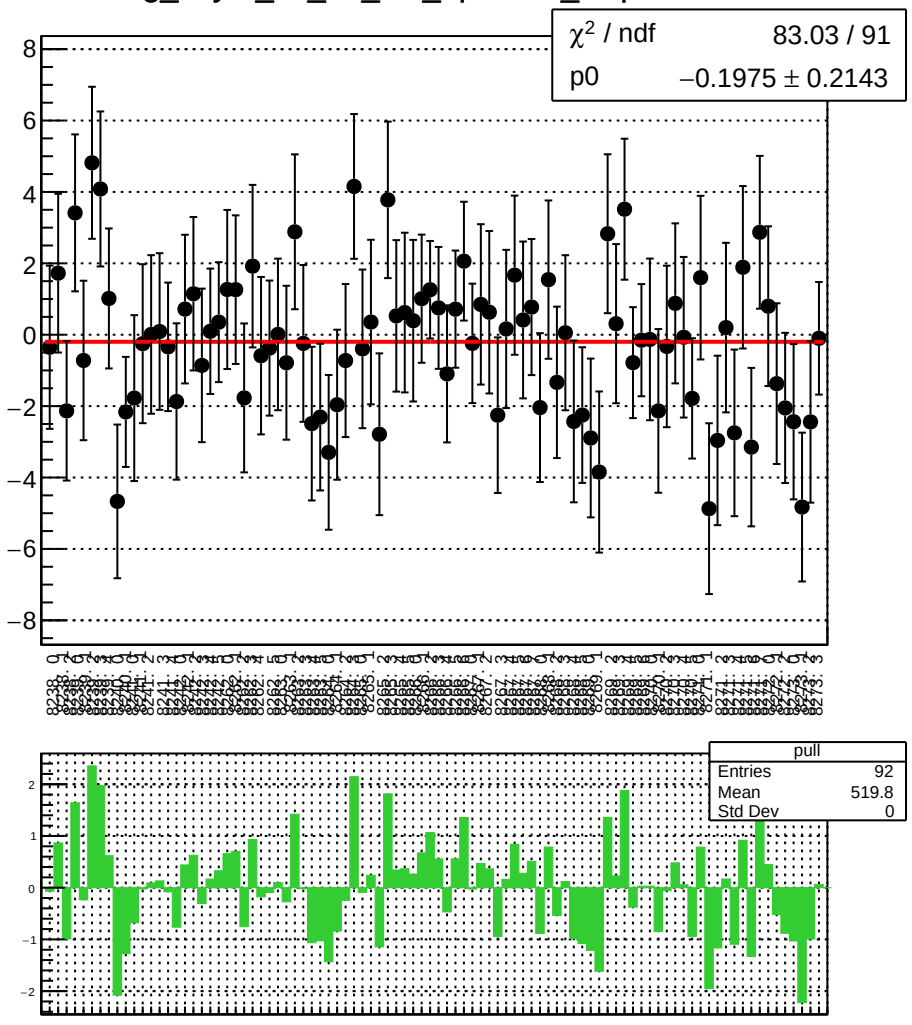

pull1D
Entries 92
Mean −0.00718
Std Dev 1.079

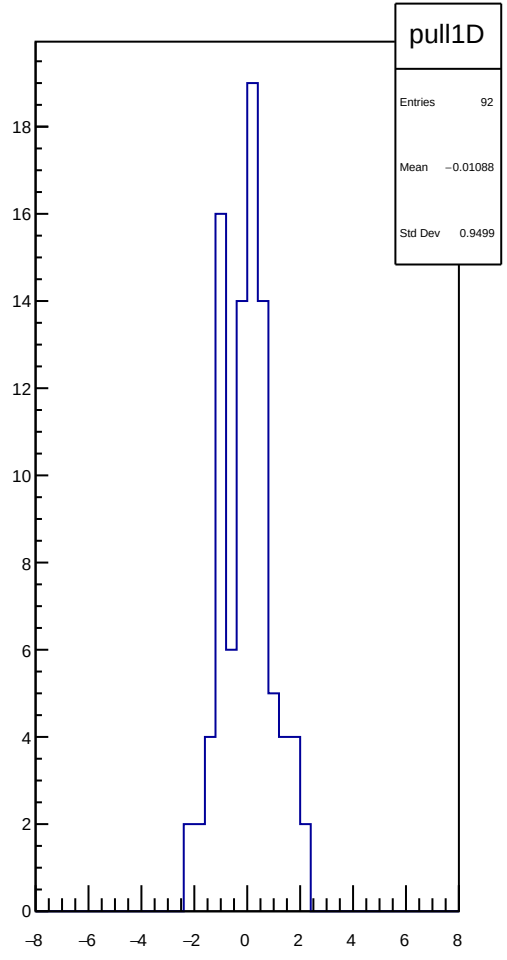

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 82.32 / 91
p0 0.2538 ± 0.1884
pull
Entries 92
Mean 591.8
Std Dev 0

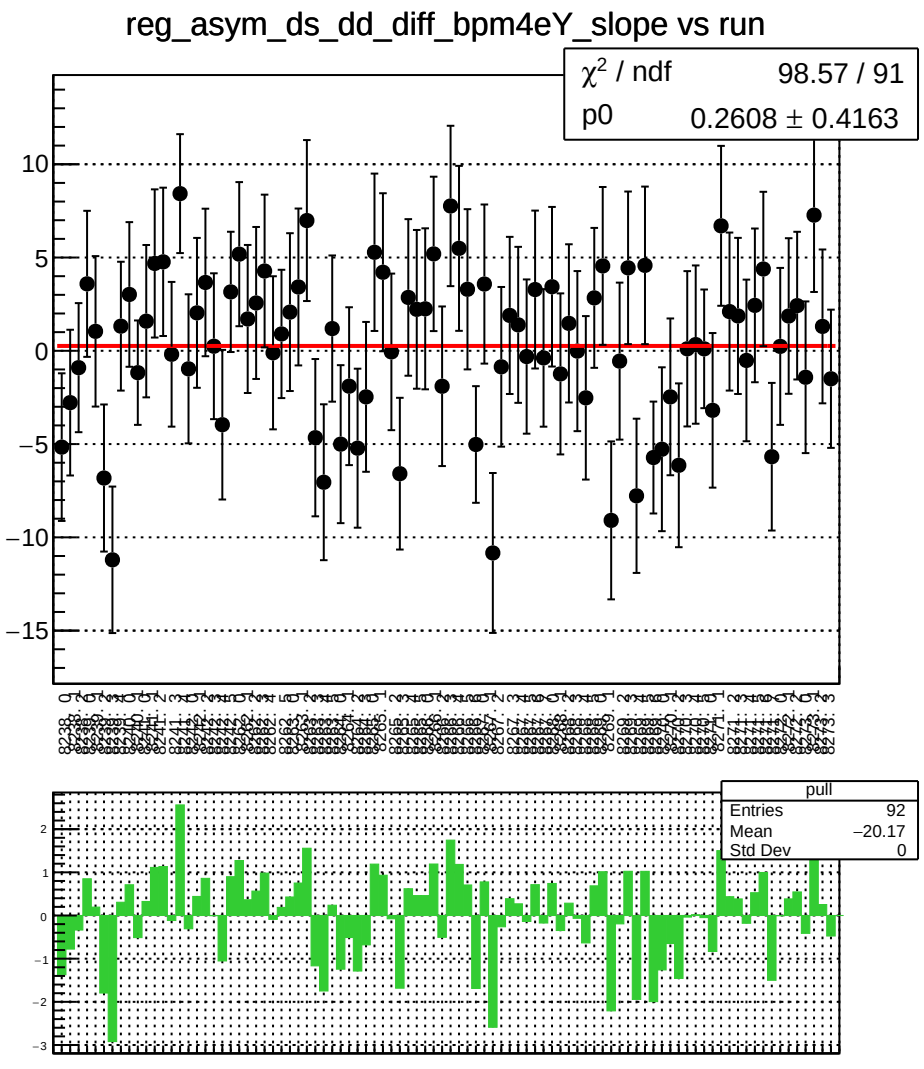

pull1D
Entries 92
Mean 0.008472
Std Dev 0.9459

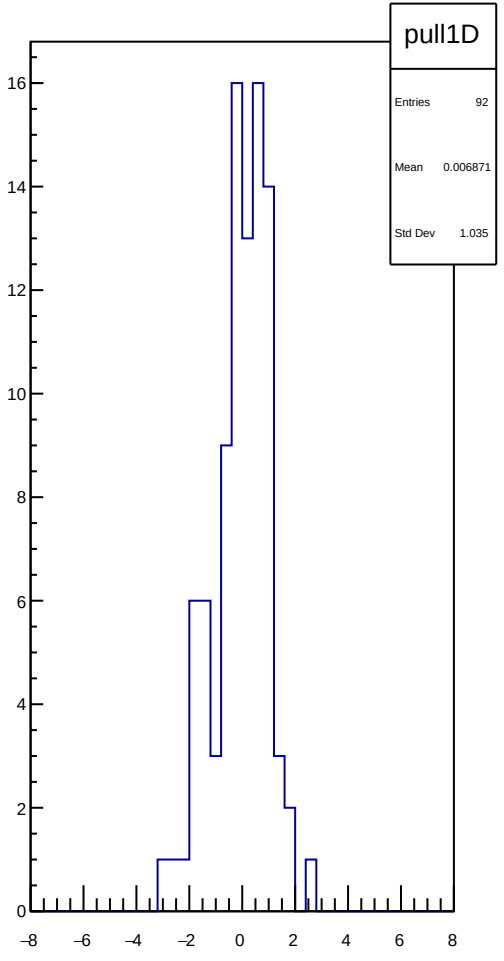

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 99.51 / 91
p0 −0.2415 ± 0.3999
pull
Entries 92
Mean −14.21
Std Dev 0

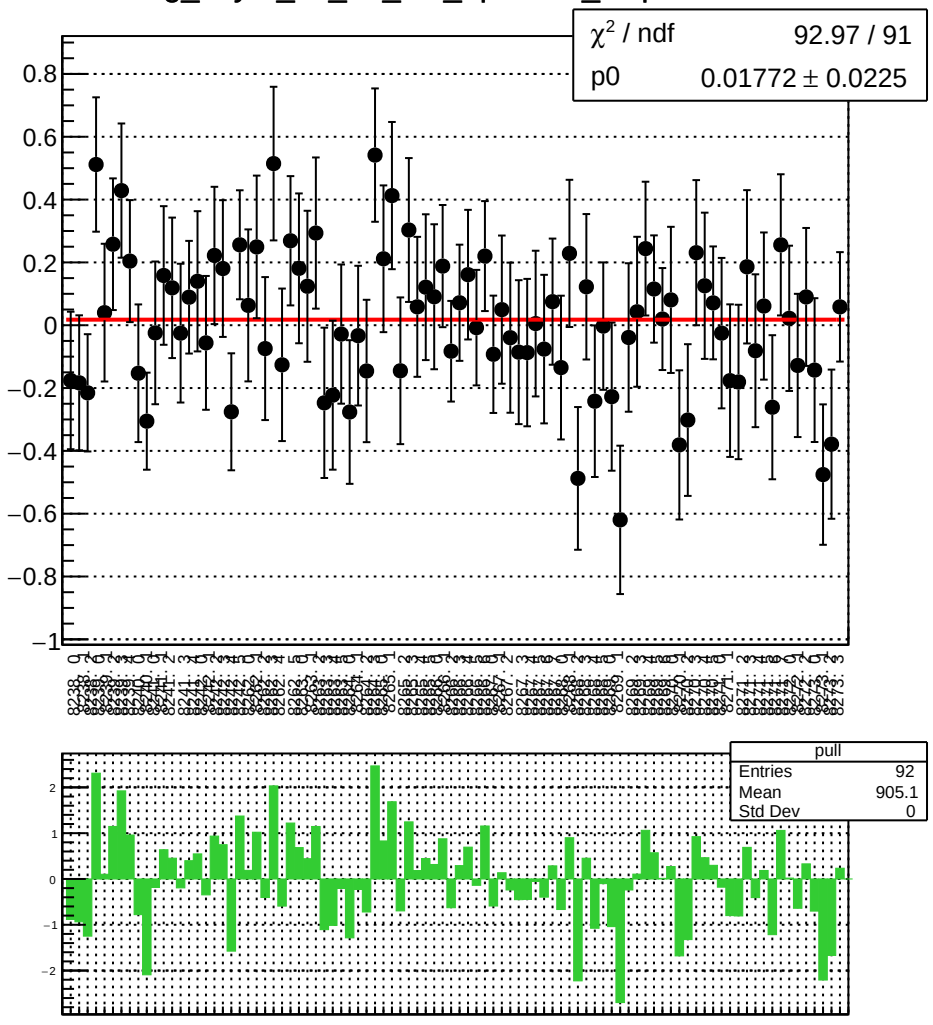

pull1D
Entries 92
Mean −0.007106
Std Dev 1.04

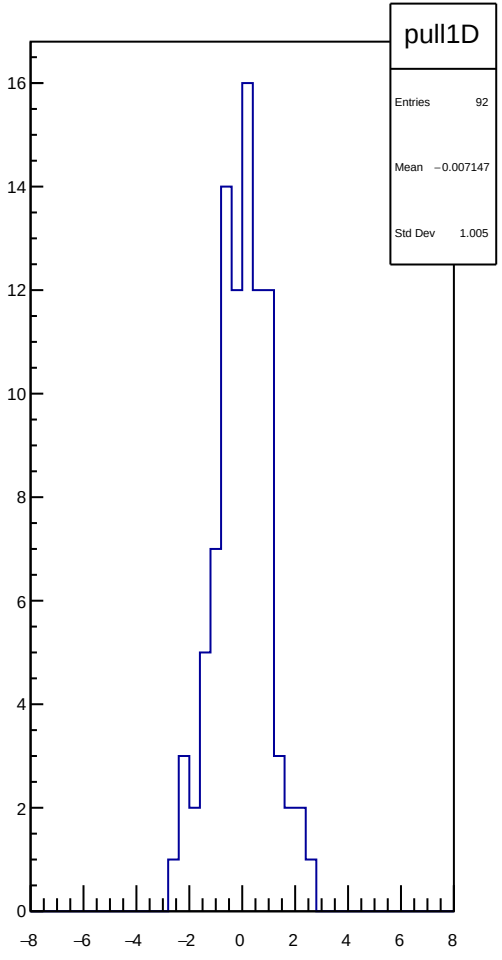

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 83.03 / 91
p0 −0.1975 ± 0.2143
pull
Entries 92
Mean 519.8
Std Dev 0

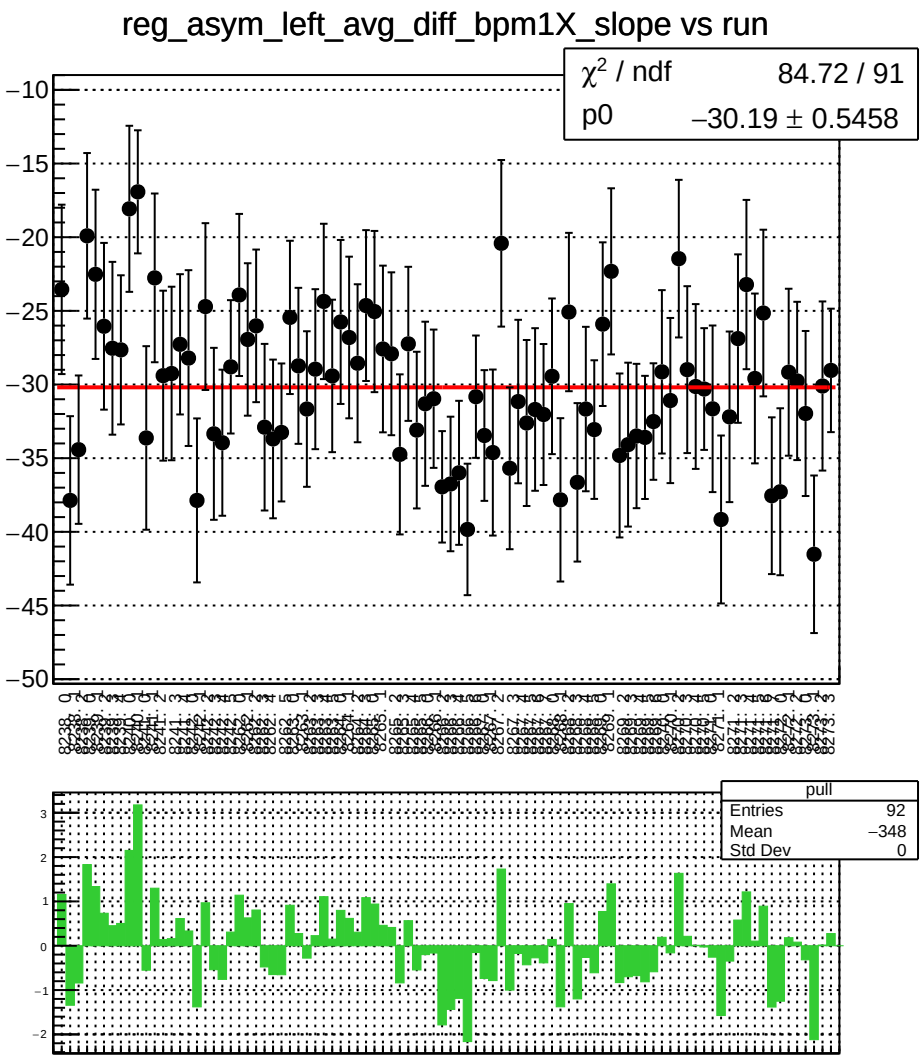

pull1D
Entries 92
Mean −0.01088
Std Dev 0.9499

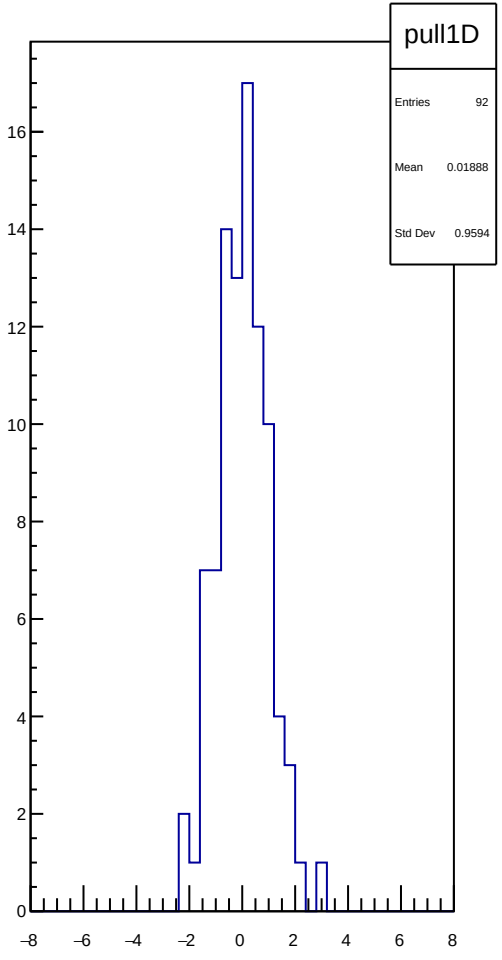

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 98.57 / 91
p0 0.2608 ± 0.4163
pull
Entries 92
Mean −20.17
Std Dev 0

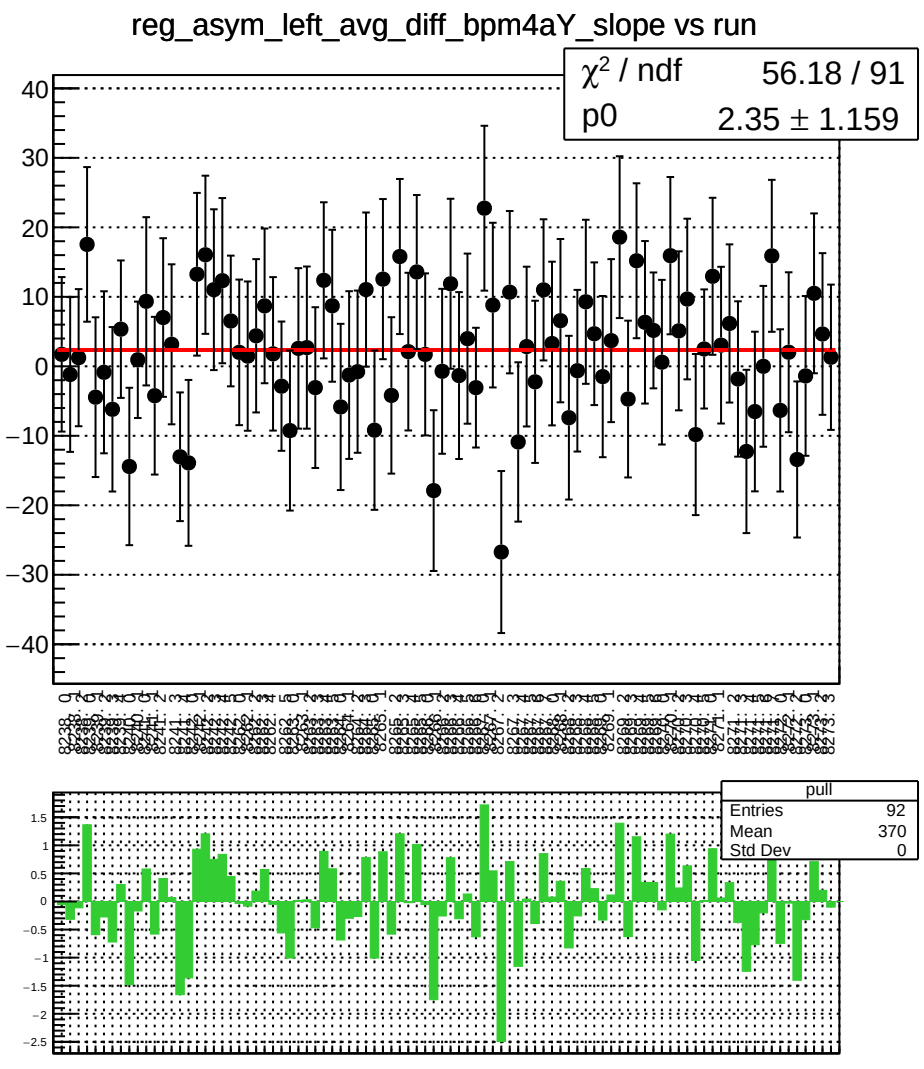

pull1D
Entries 92
Mean 0.006871
Std Dev 1.035

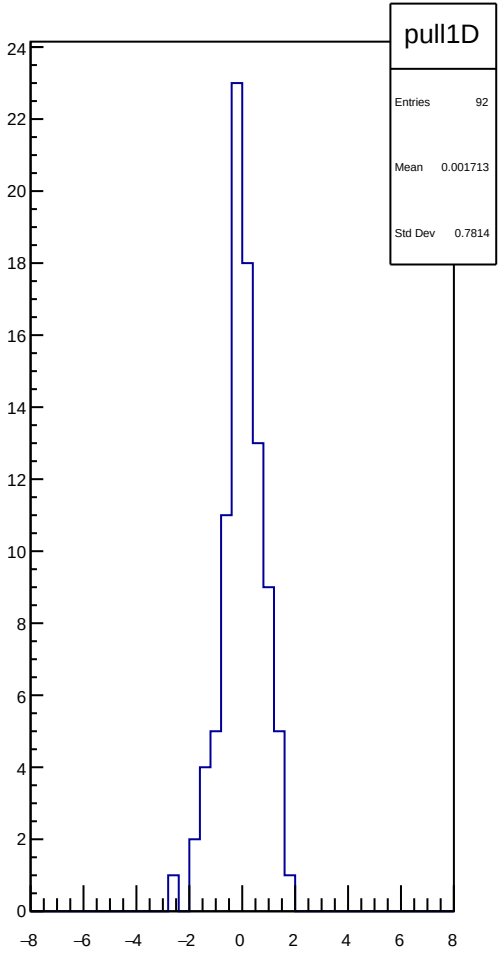

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 92.97 / 91
p0 0.01772 ± 0.0225
pull
Entries 92
Mean 905.1
Std Dev 0

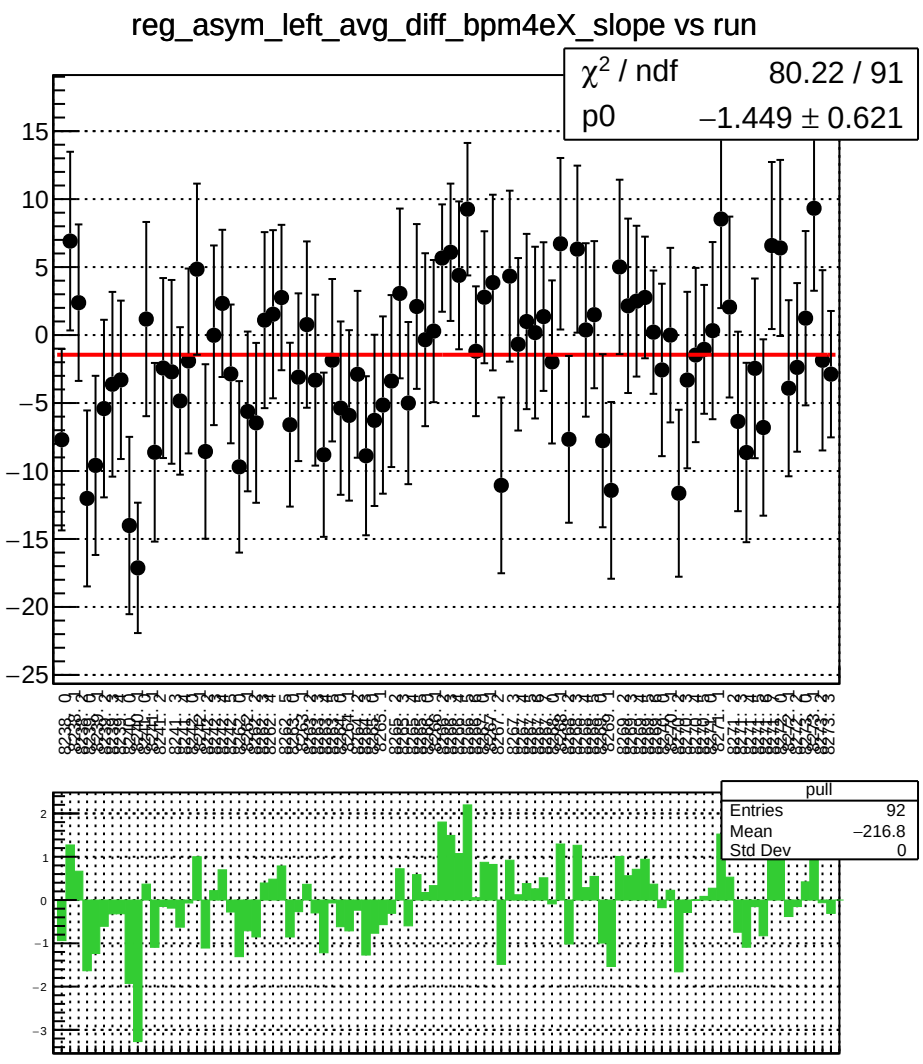

pull1D
Entries 92
Mean −0.007147
Std Dev 1.005

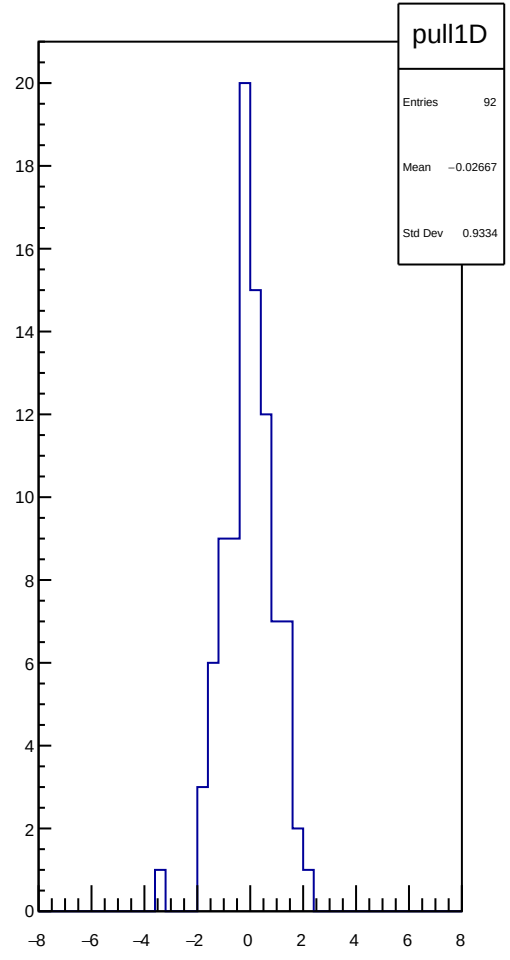

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 84.72 / 91
p0 −30.19 ± 0.5458
pull
Entries 92
Mean −348
Std Dev 0

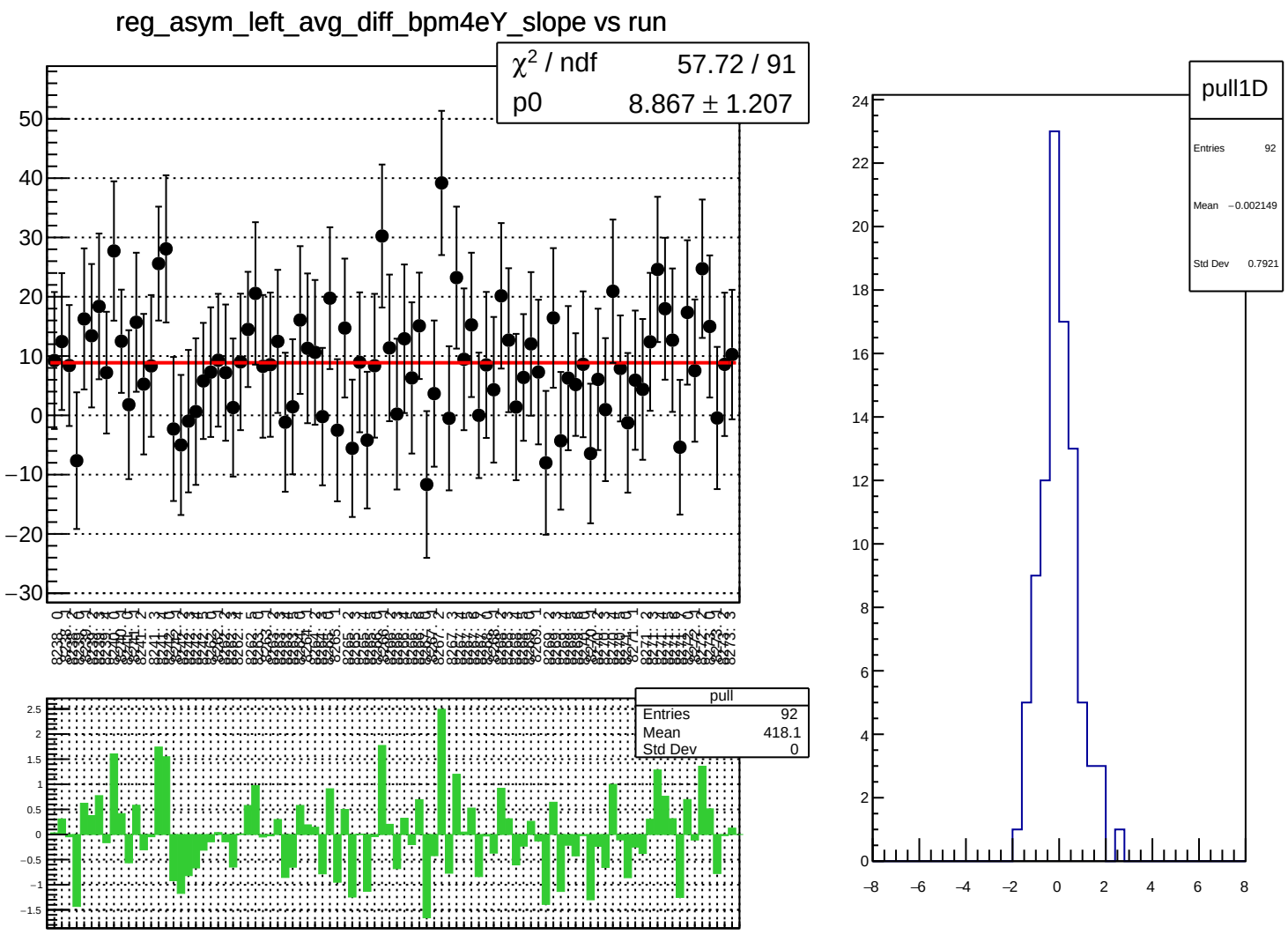

pull1D
Entries 92
Mean 0.01888
Std Dev 0.9594

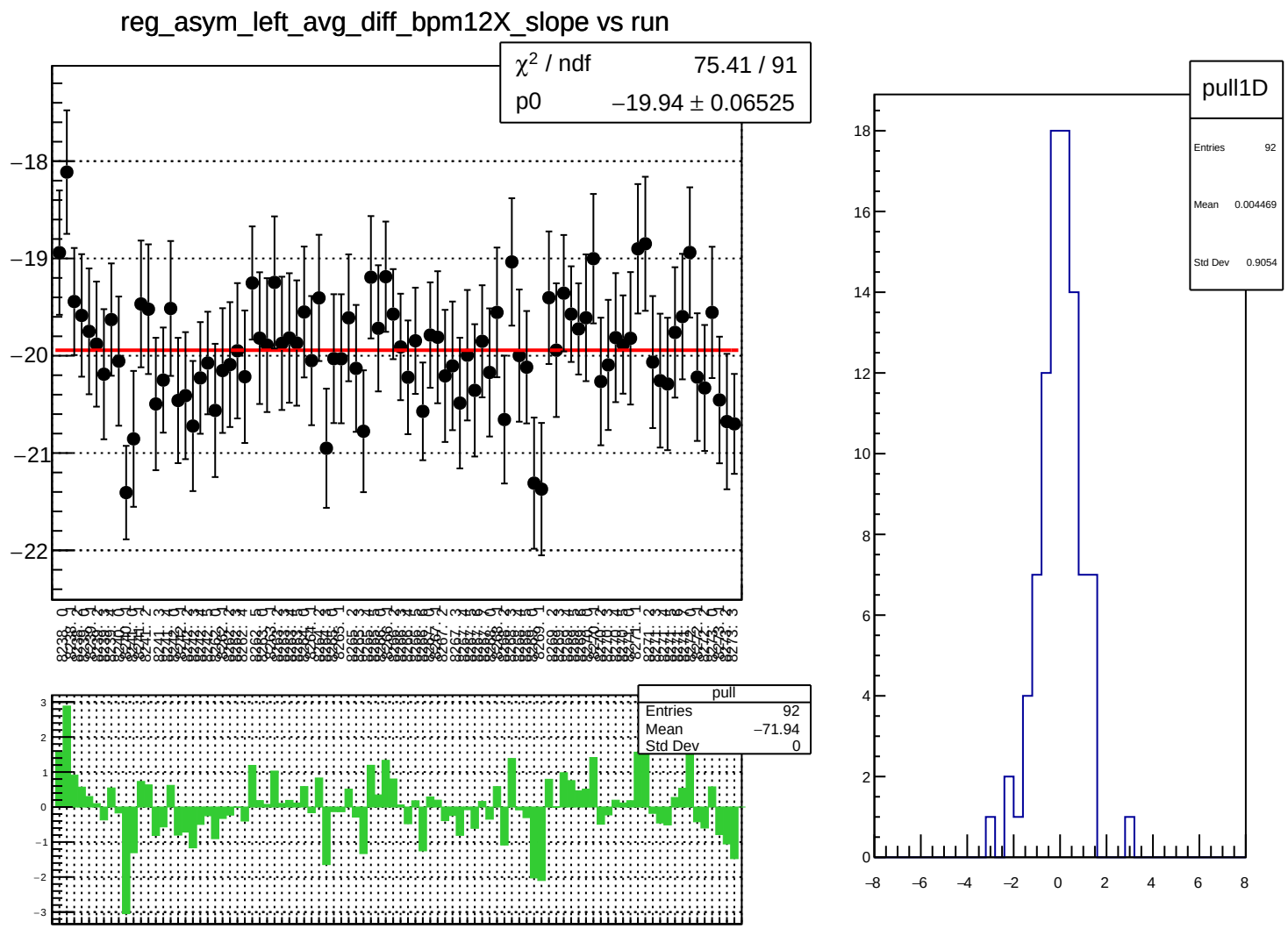

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 56.18 / 91
p0 2.35 ± 1.159
pull
Entries 92
Mean 370
Std Dev 0

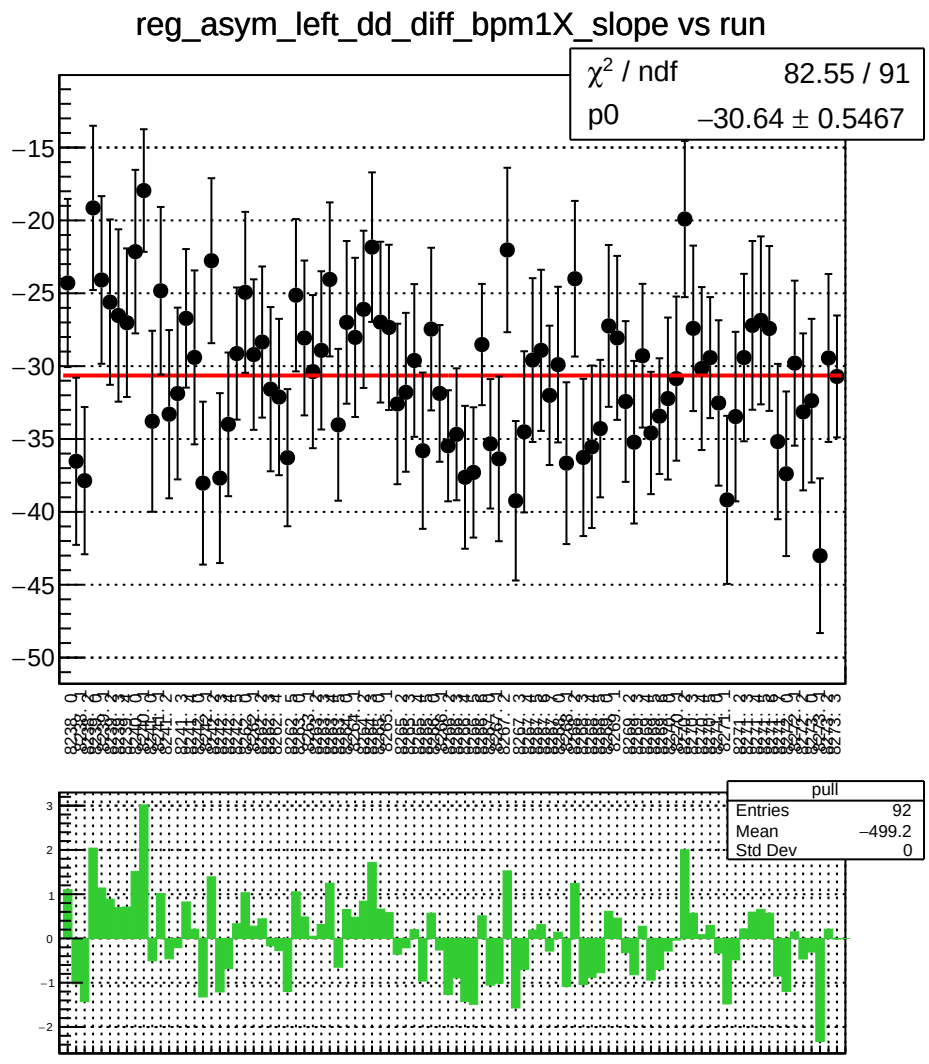

pull1D
Entries 92
Mean 0.001713
Std Dev 0.7814

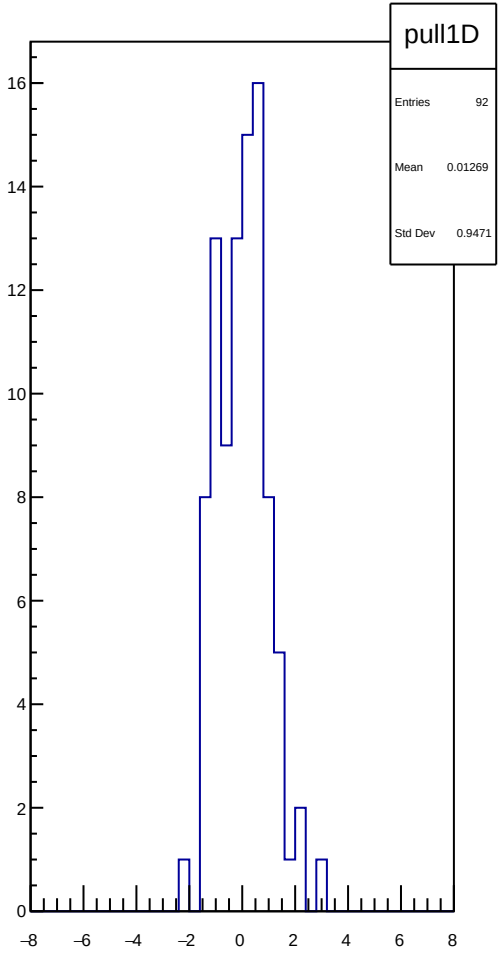

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 80.22 / 91
p0 −1.449 ± 0.621
pull
Entries 92
Mean −216.8
Std Dev 0

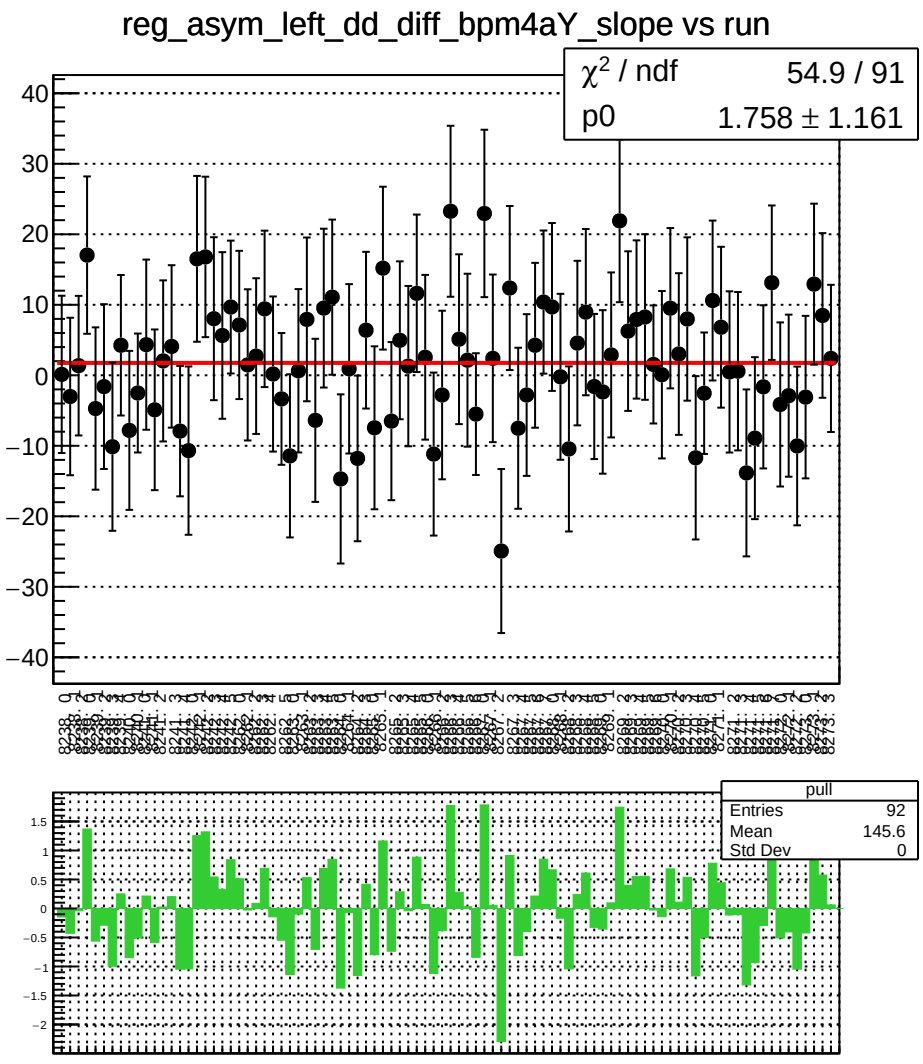

pull1D
Entries 92
Mean −0.02667
Std Dev 0.9334

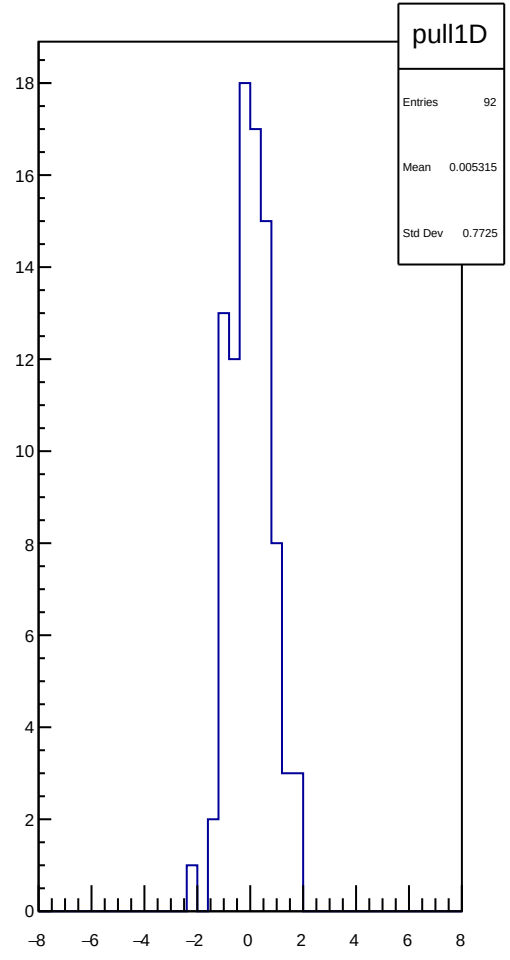

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 57.72 / 91
p0 8.867 ± 1.207
pull
Entries 92
Mean 418.1
Std Dev 0
pull1D
Entries 92
Mean −0.002149
Std Dev 0.7921

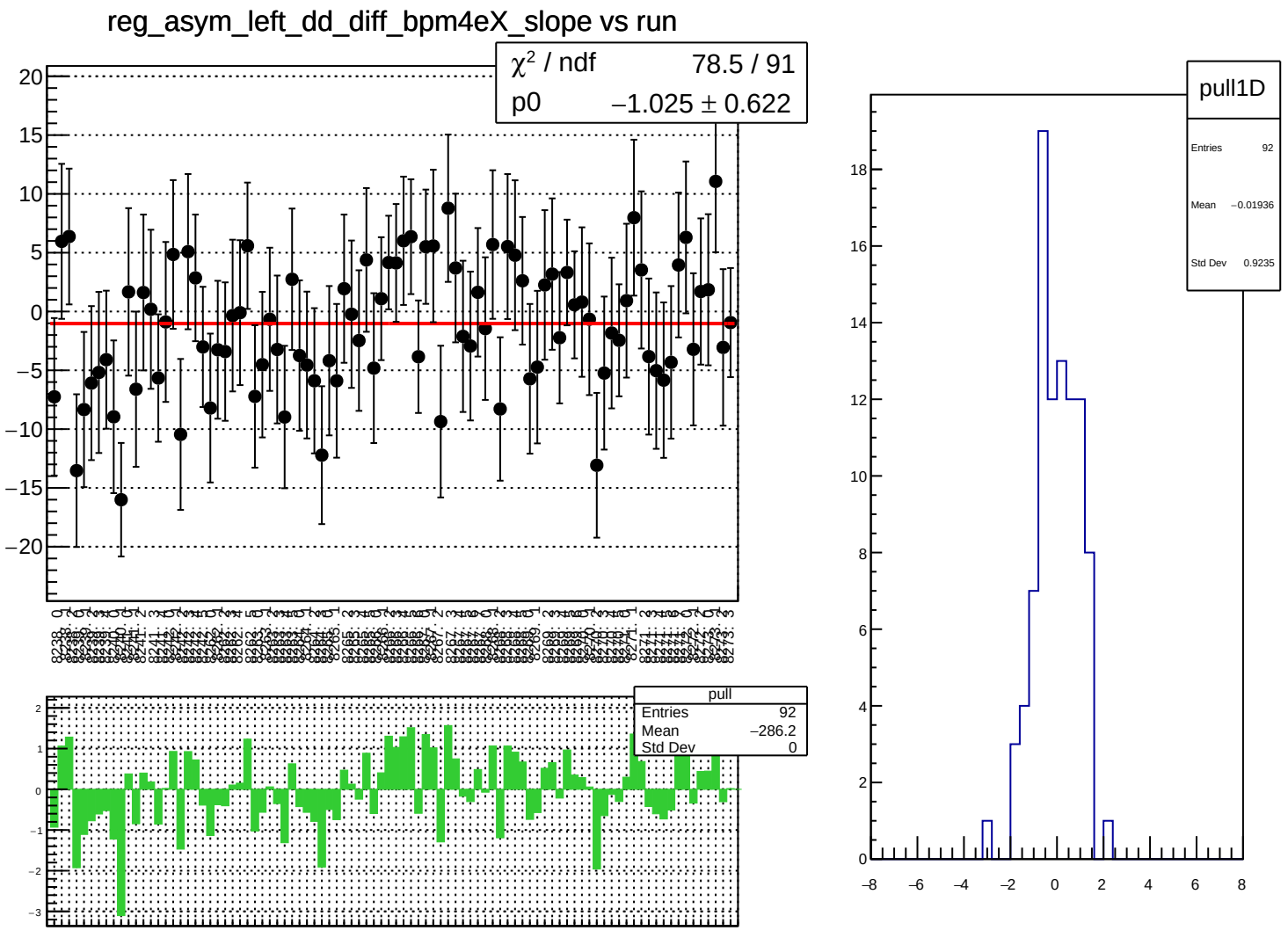

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 75.41 / 91
p0 −19.94 ± 0.06525
−18
−19
−20
−21
−22
pull
Entries 92
Mean −71.94
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.004469
Std Dev 0.9054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

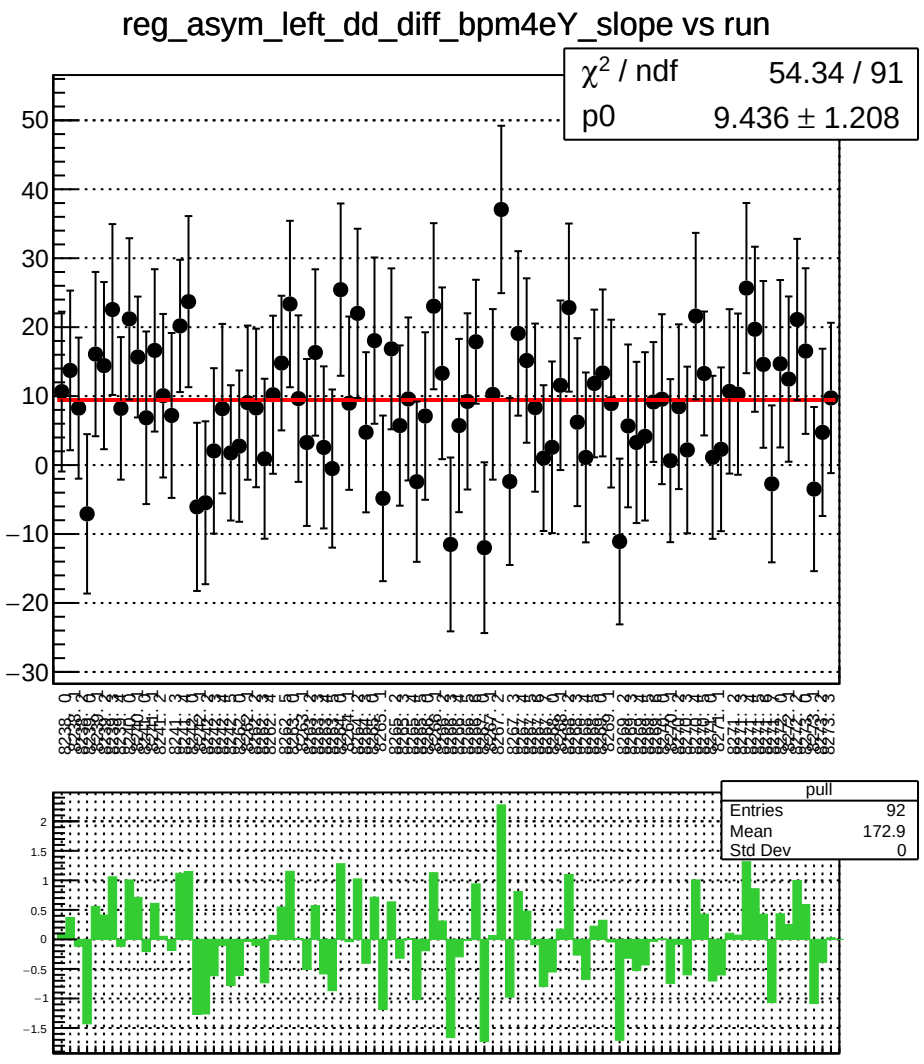

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 82.55 / 91
p0 −30.64 ± 0.5467
pull
Entries 92
Mean −499.2
Std Dev 0

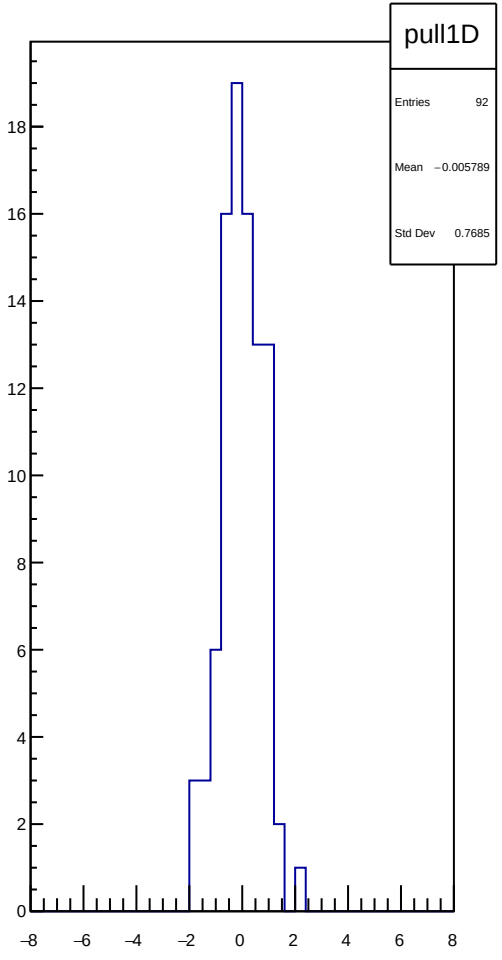

pull1D
Entries 92
Mean 0.01269
Std Dev 0.9471

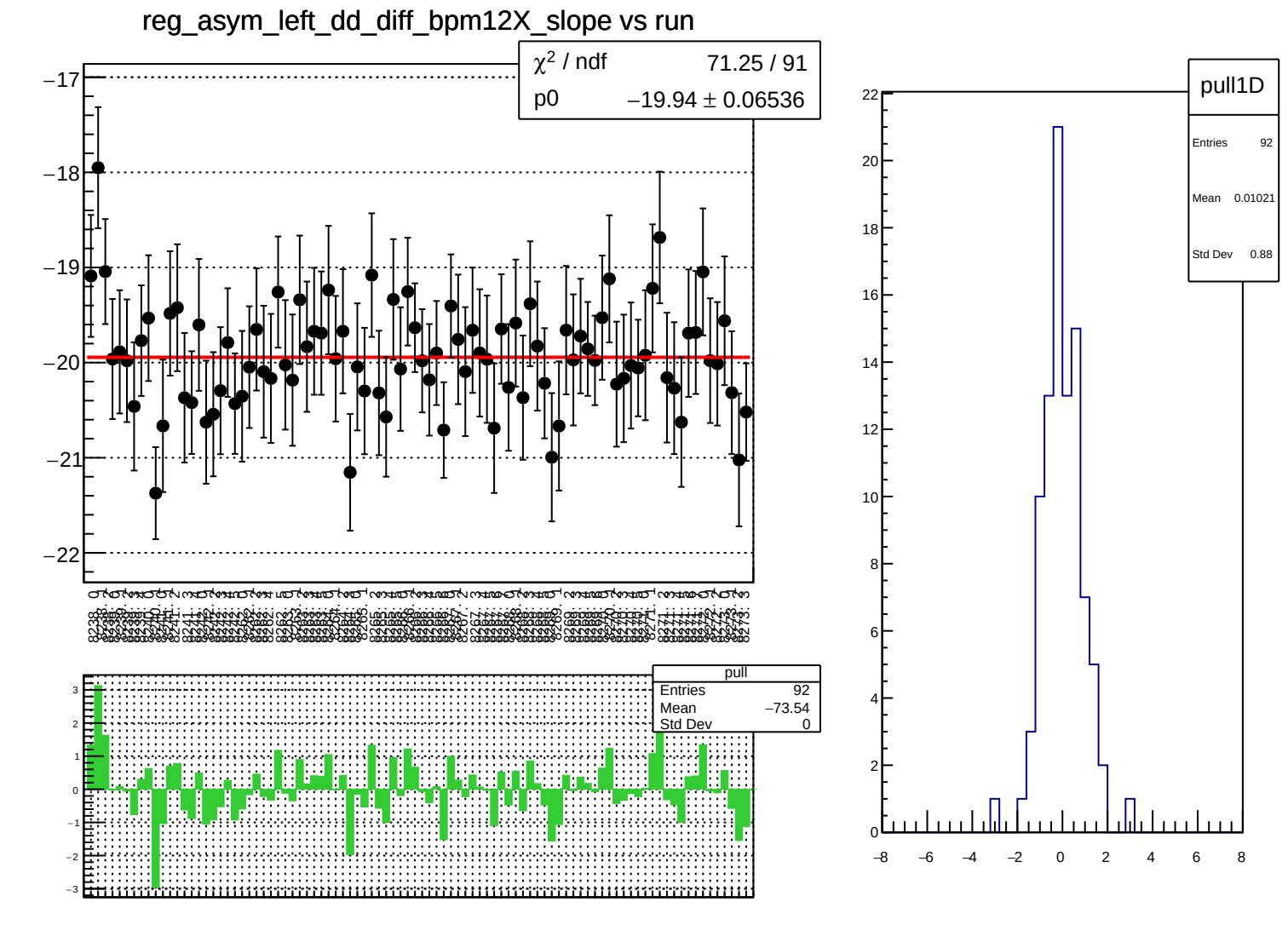

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.9 / 91
p0 1.758 ± 1.161
pull
Entries 92
Mean 145.6
Std Dev 0

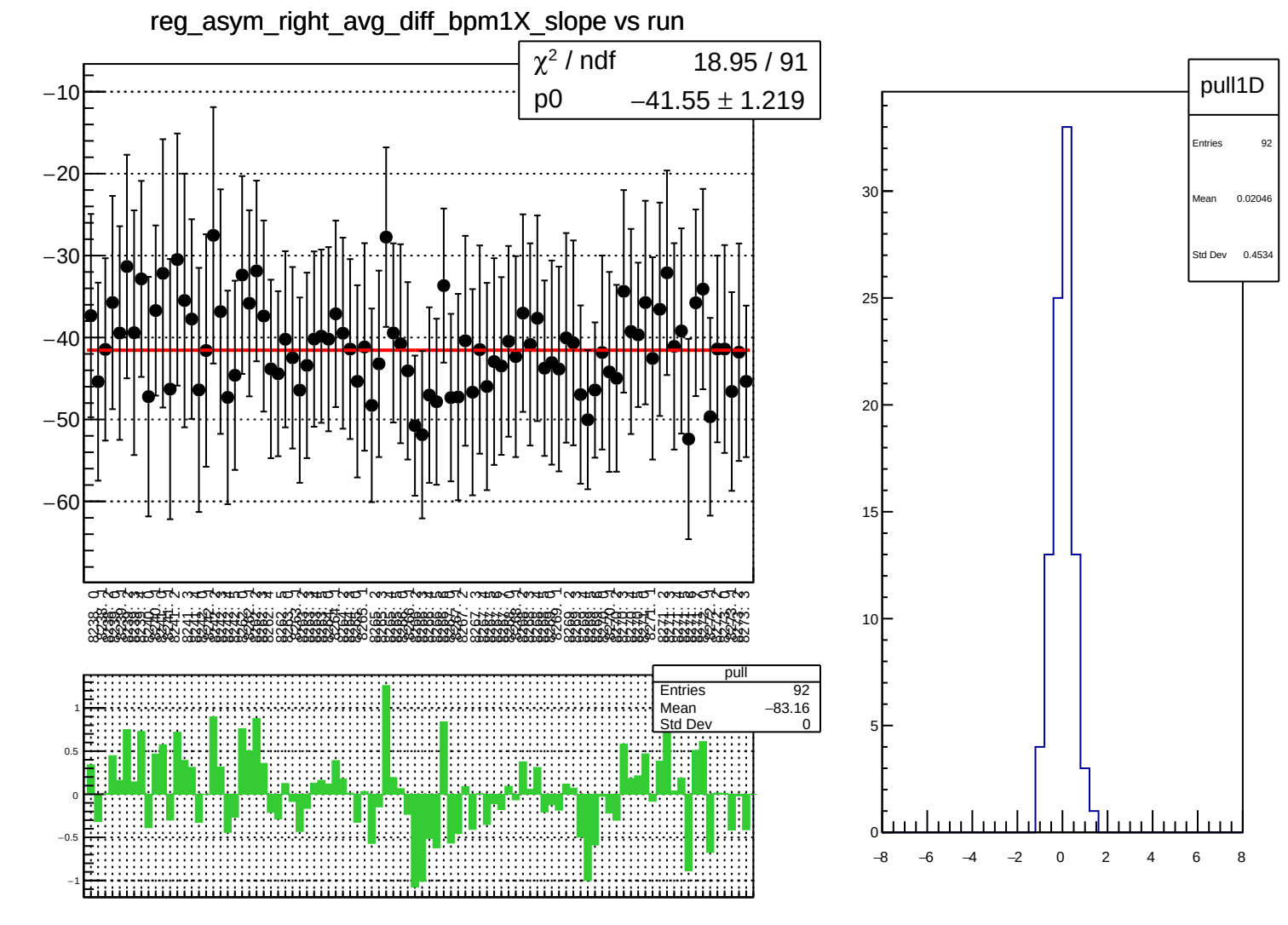

pull1D
Entries 92
Mean 0.005315
Std Dev 0.7725

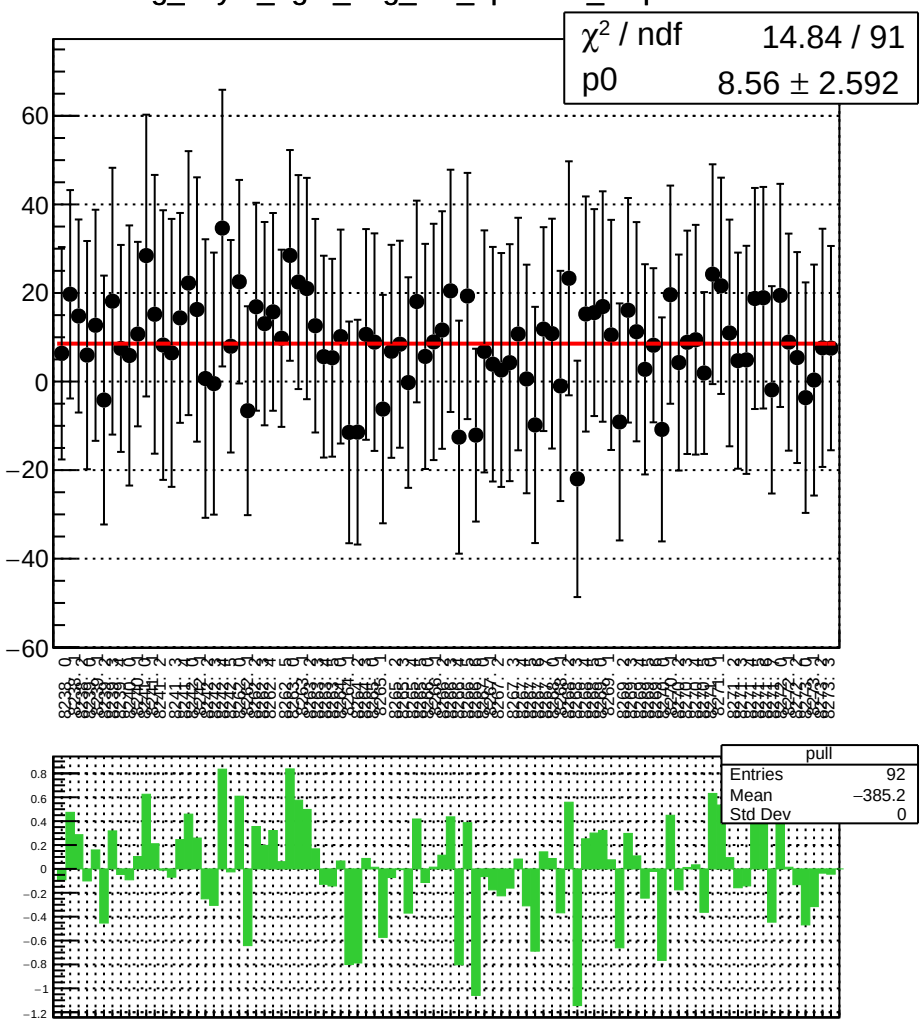

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 78.5 / 91
p0 −1.025 ± 0.622
pull
Entries 92
Mean −286.2
Std Dev 0
pull1D
Entries 92
Mean −0.01936
Std Dev 0.9235

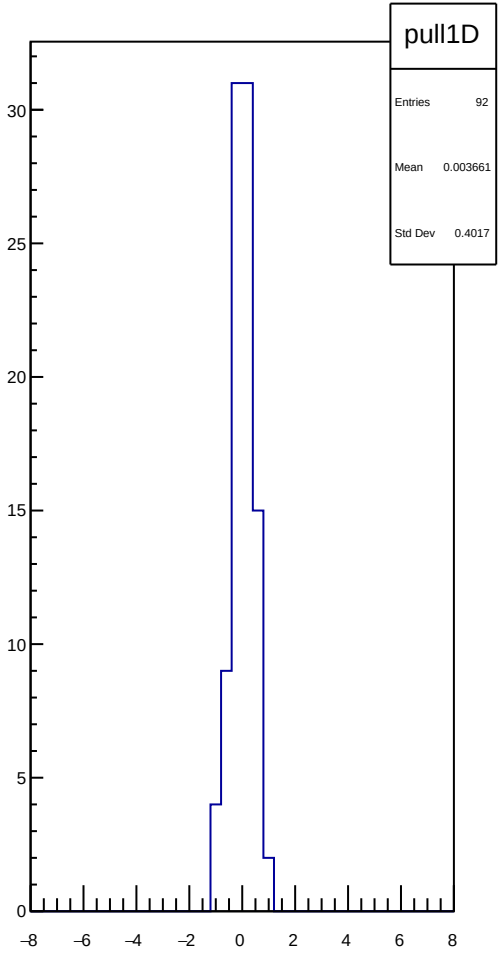

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 54.34 / 91
p0 9.436 ± 1.208
pull
Entries 92
Mean 172.9
Std Dev 0

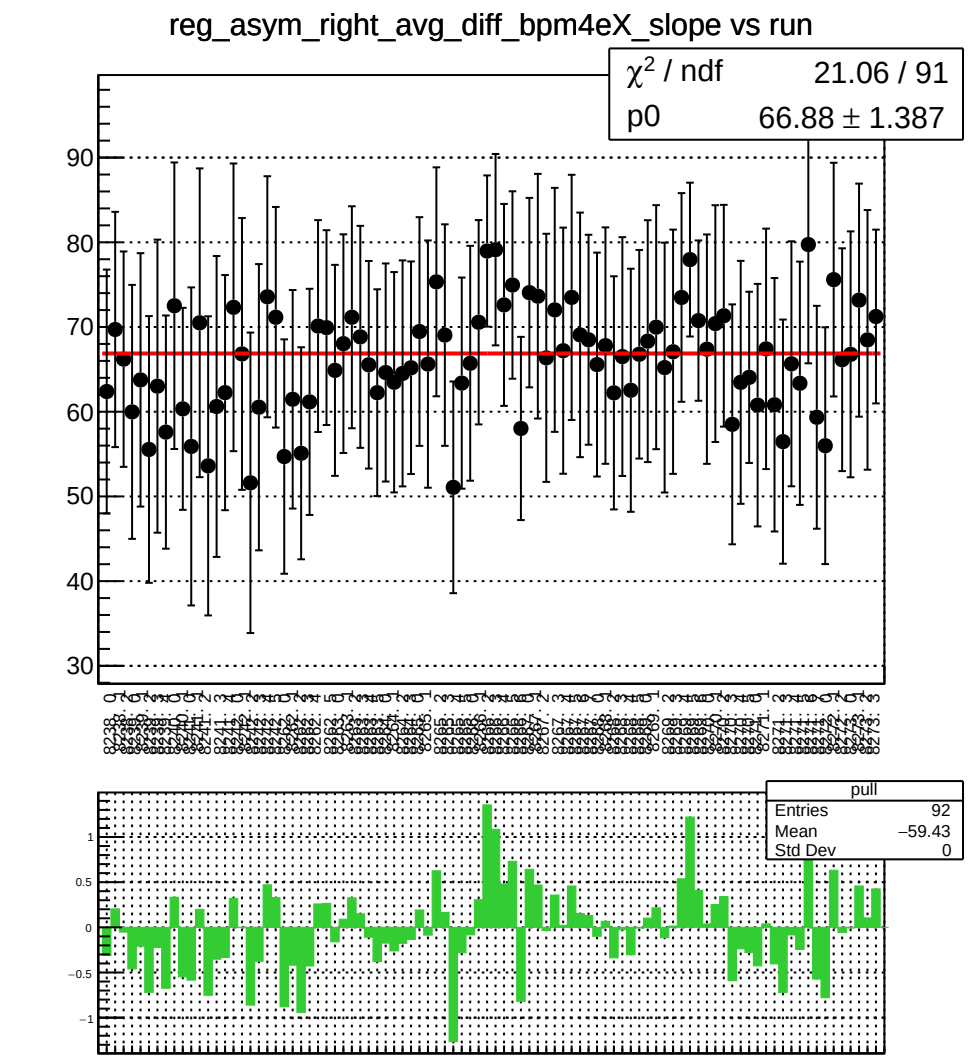

pull1D
Entries 92
Mean −0.005789
Std Dev 0.7685

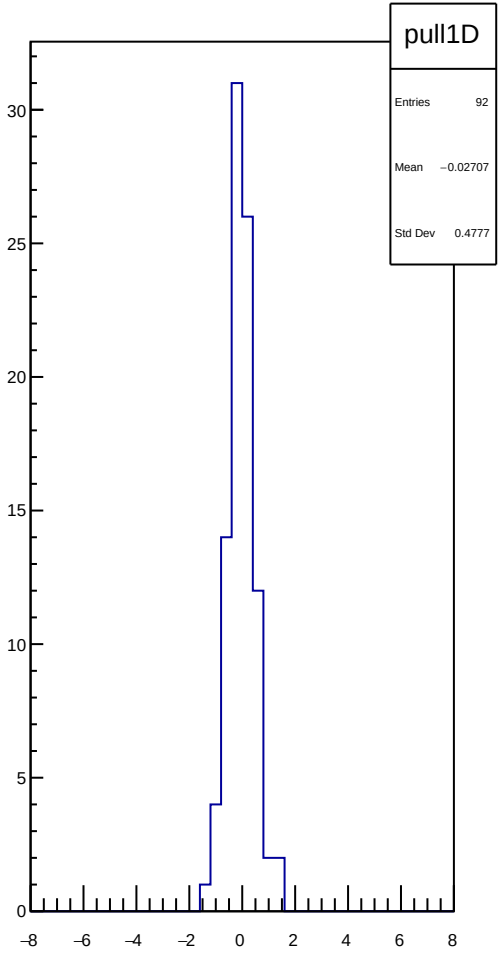

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 71.25 / 91
p0 −19.94 ± 0.06536
pull
Entries 92
Mean −73.54
Std Dev 0
pull1D
Entries 92
Mean 0.01021
Std Dev 0.88

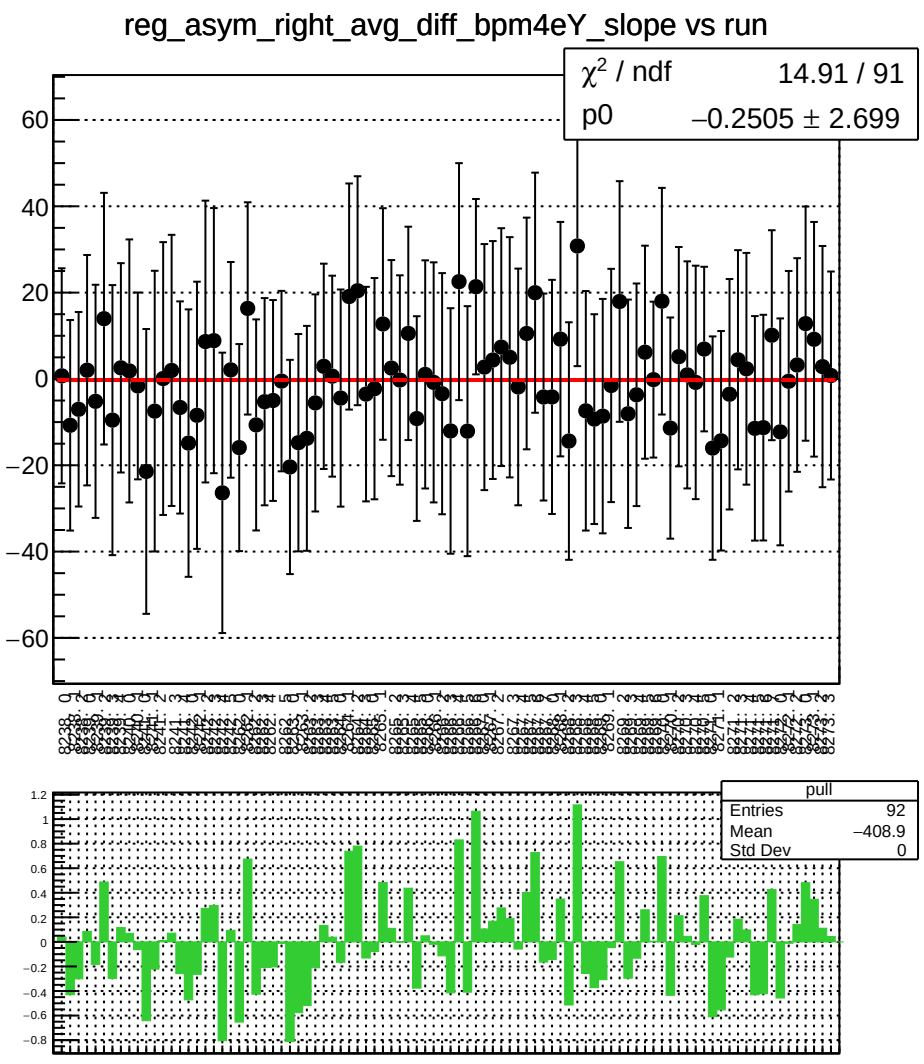

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 18.95 / 91
p0 −41.55 ± 1.219
pull
Entries 92
Mean −83.16
Std Dev 0
pull1D
Entries 92
Mean 0.02046
Std Dev 0.4534

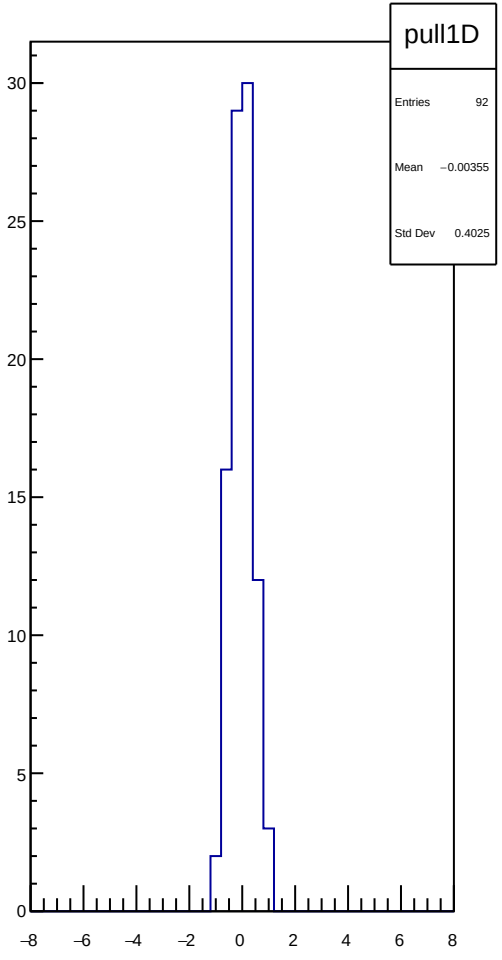

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.84 / 91
p0 8.56 ± 2.592
pull
Entries 92
Mean −385.2
Std Dev 0

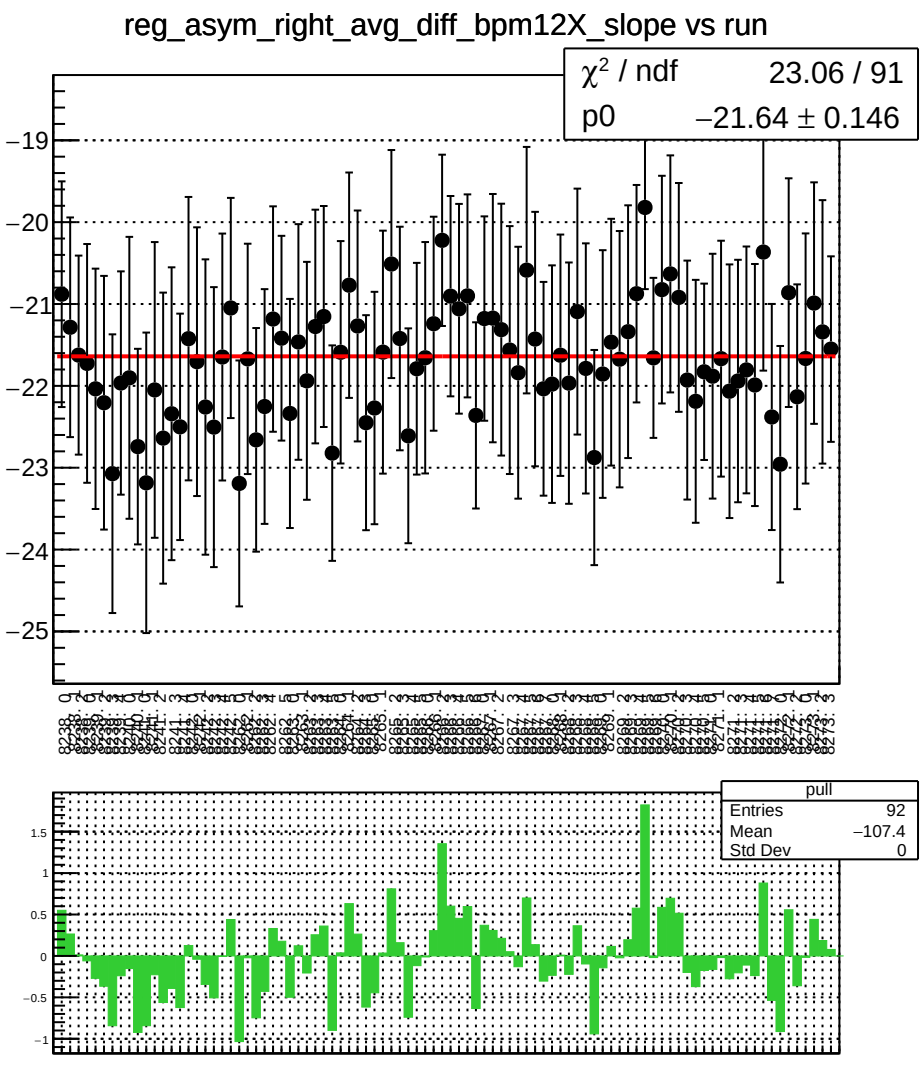

pull1D
Entries 92
Mean 0.003661
Std Dev 0.4017

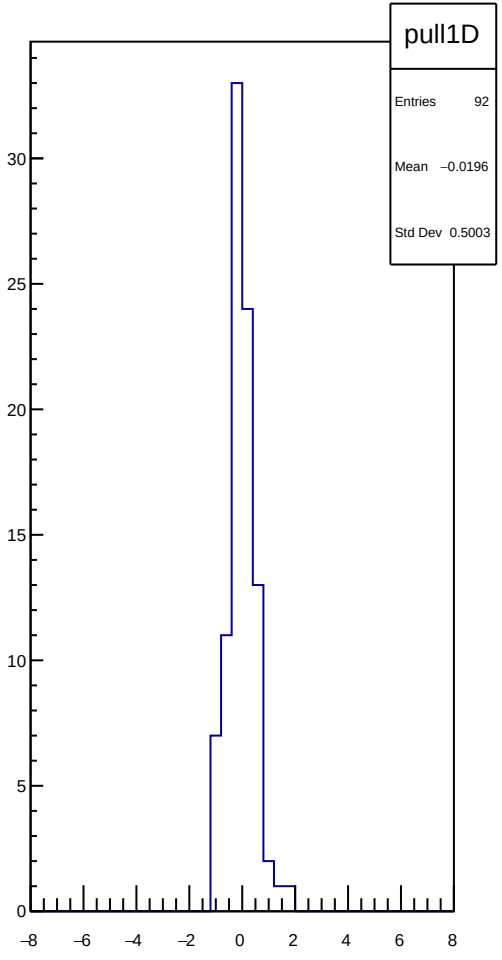

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.06 / 91
p0 66.88 ± 1.387
pull
Entries 92
Mean −59.43
Std Dev 0

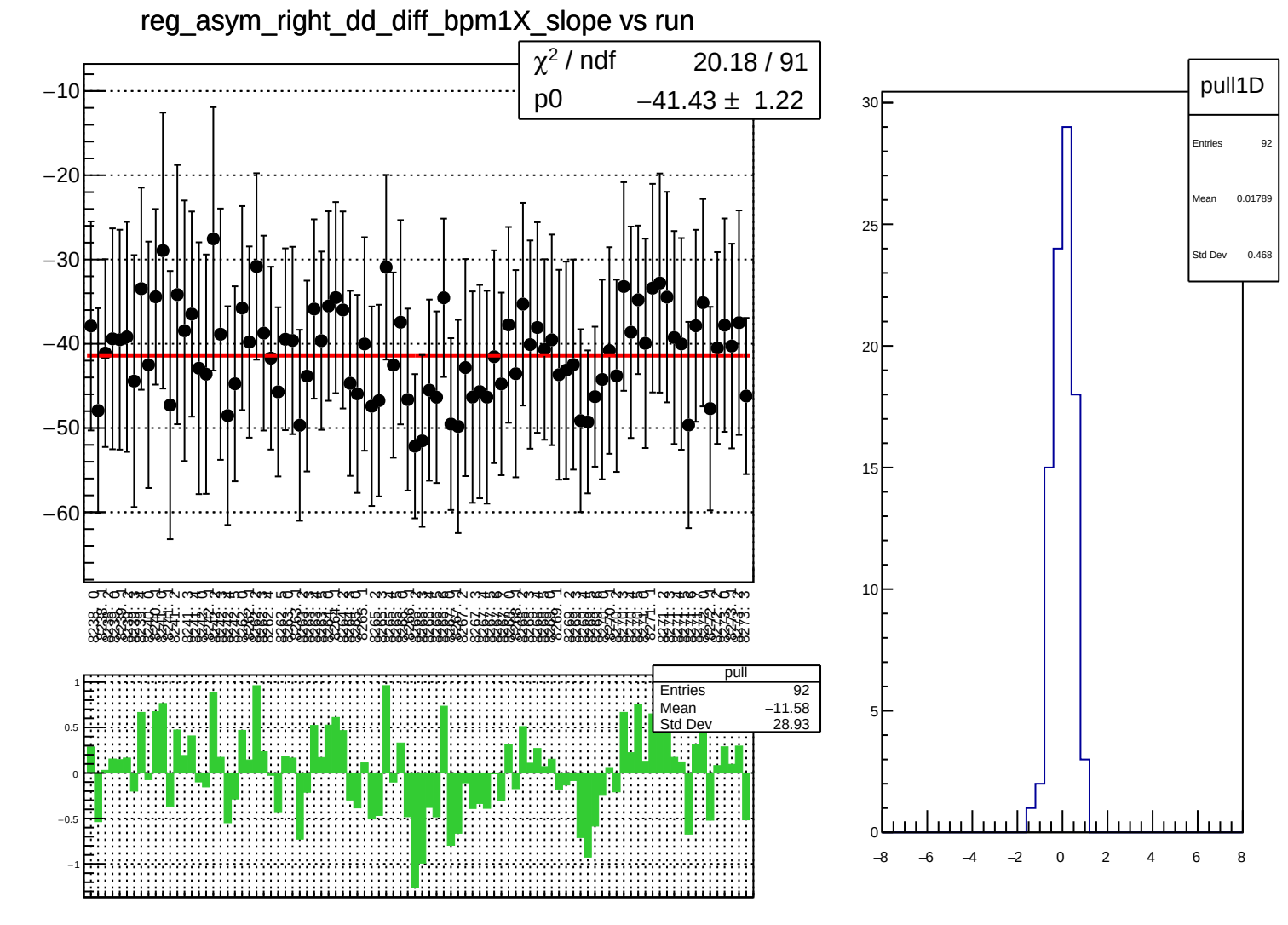

pull1D
Entries 92
Mean −0.02707
Std Dev 0.4777

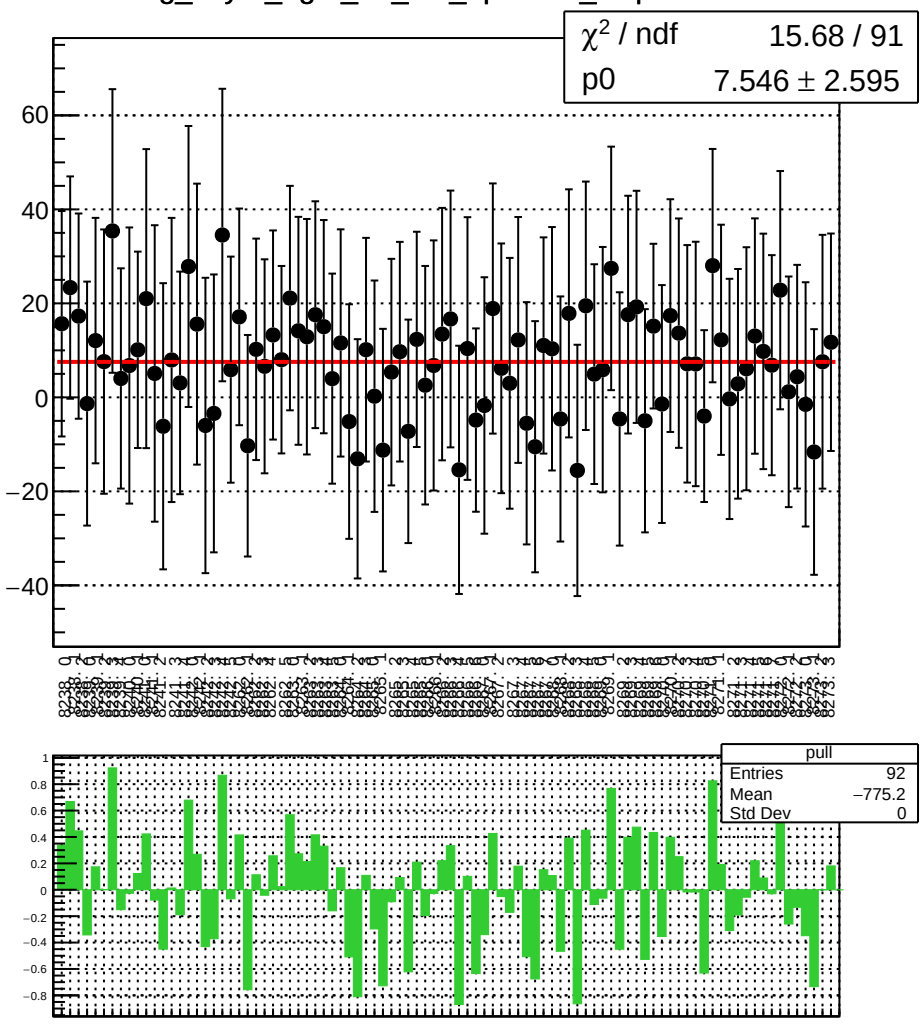

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.91 / 91
p0 −0.2505 ± 2.699
pull
Entries 92
Mean −408.9
Std Dev 0

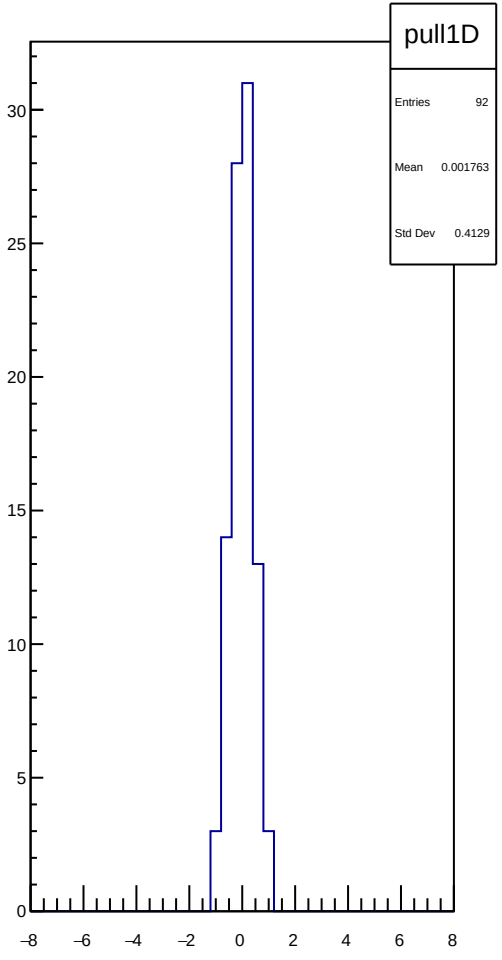

pull1D
Entries 92
Mean −0.00355
Std Dev 0.4025

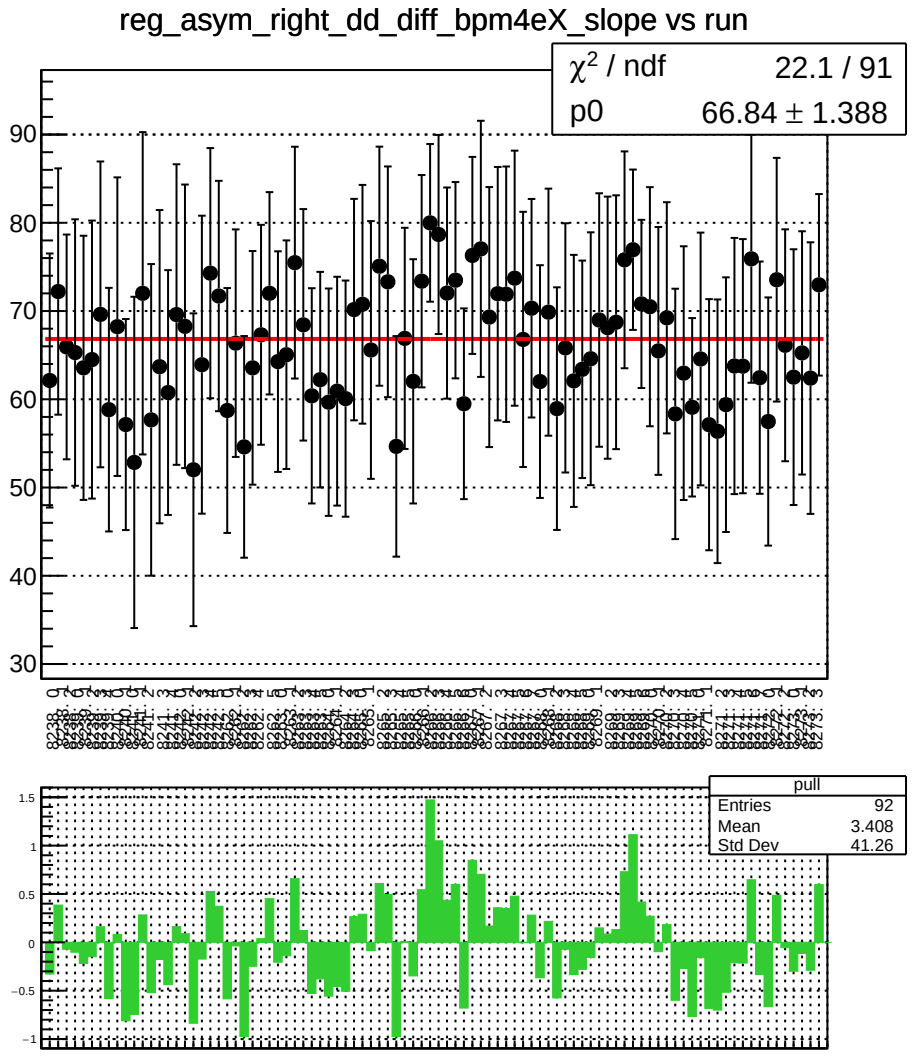

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 23.06 / 91
p0 −21.64 ± 0.146
pull
Entries 92
Mean −107.4
Std Dev 0

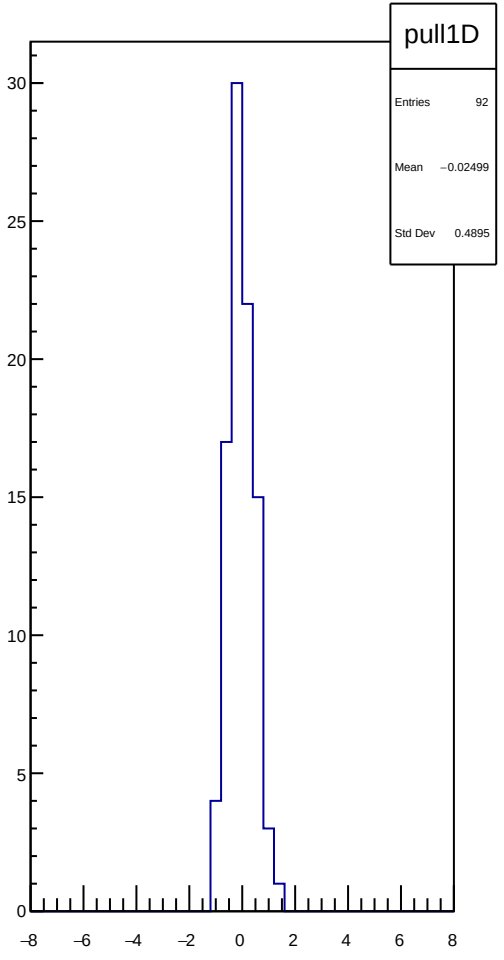

pull1D
Entries 92
Mean −0.0196
Std Dev 0.5003

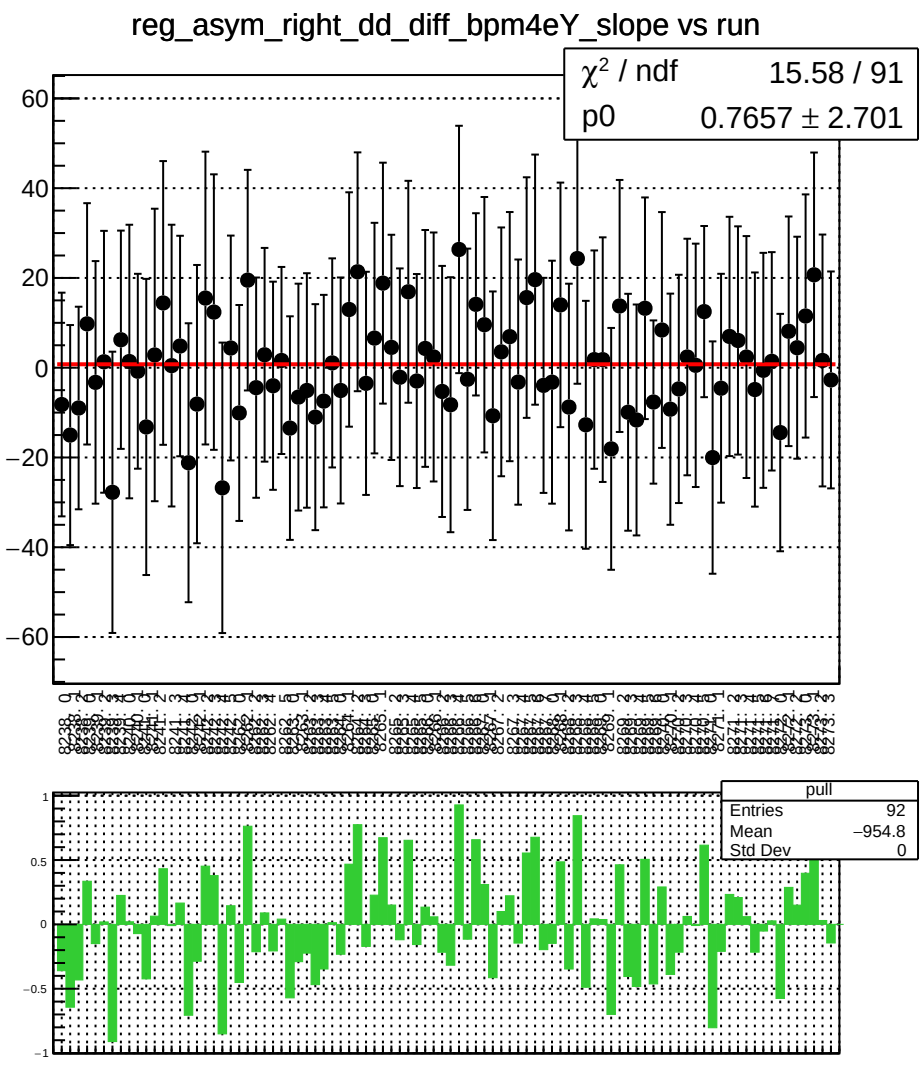

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 20.18 / 91
p0 −41.43 ± 1.22
pull
Entries 92
Mean −11.58
Std Dev 28.93
pull1D
Entries 92
Mean 0.01789
Std Dev 0.468

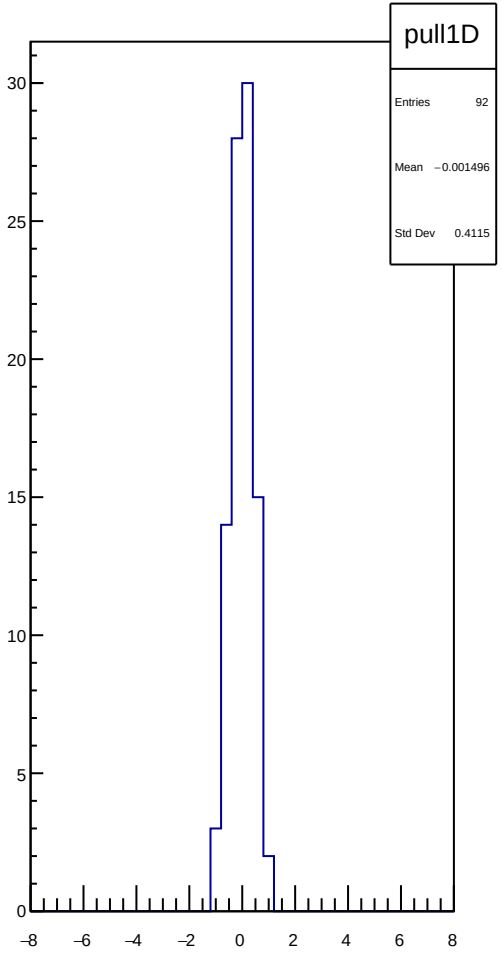

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.68 / 91
p0 7.546 ± 2.595
pull
Entries 92
Mean −775.2
Std Dev 0

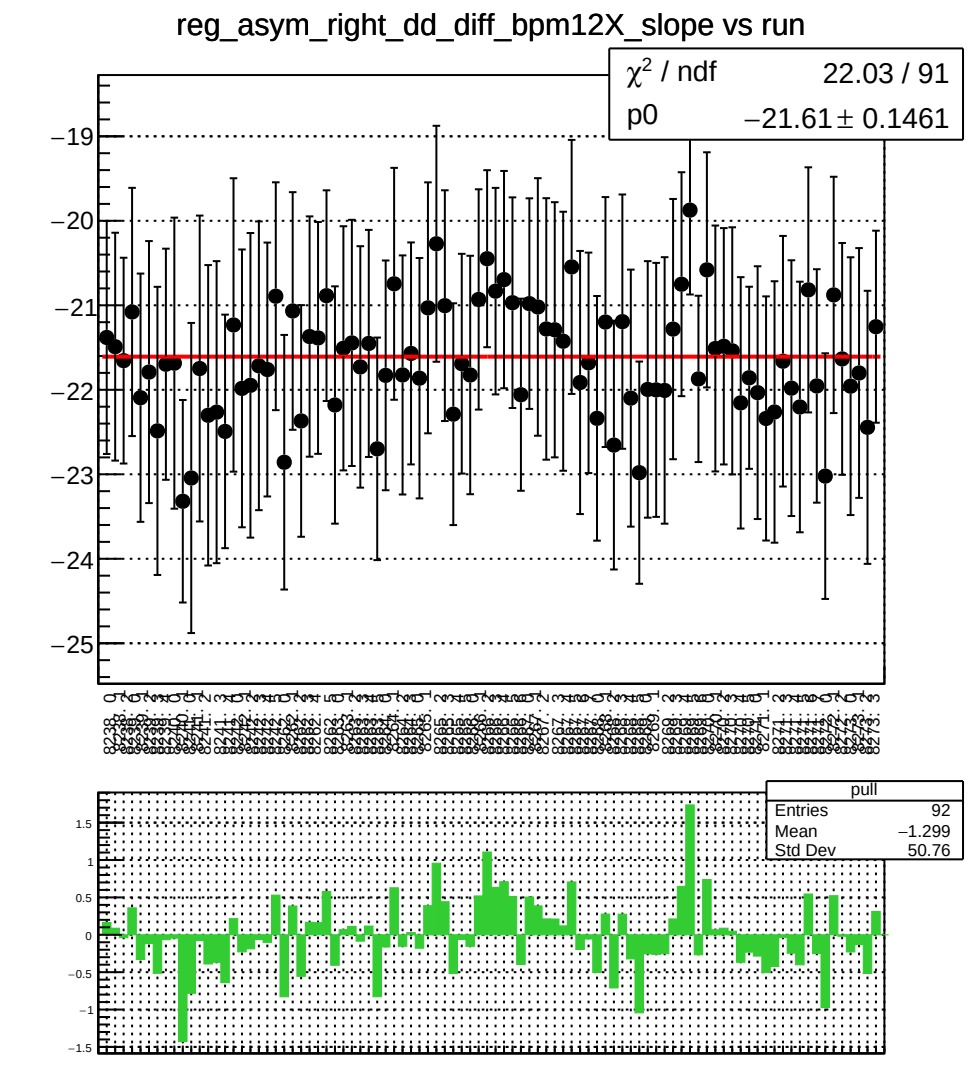

pull1D
Entries 92
Mean 0.001763
Std Dev 0.4129

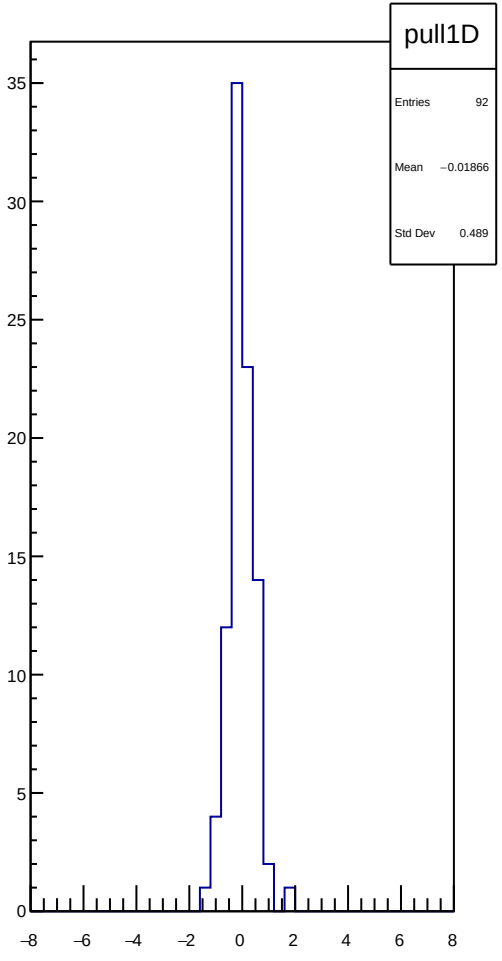

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.1 / 91
p0 66.84 ± 1.388
pull
Entries 92
Mean 3.408
Std Dev 41.26

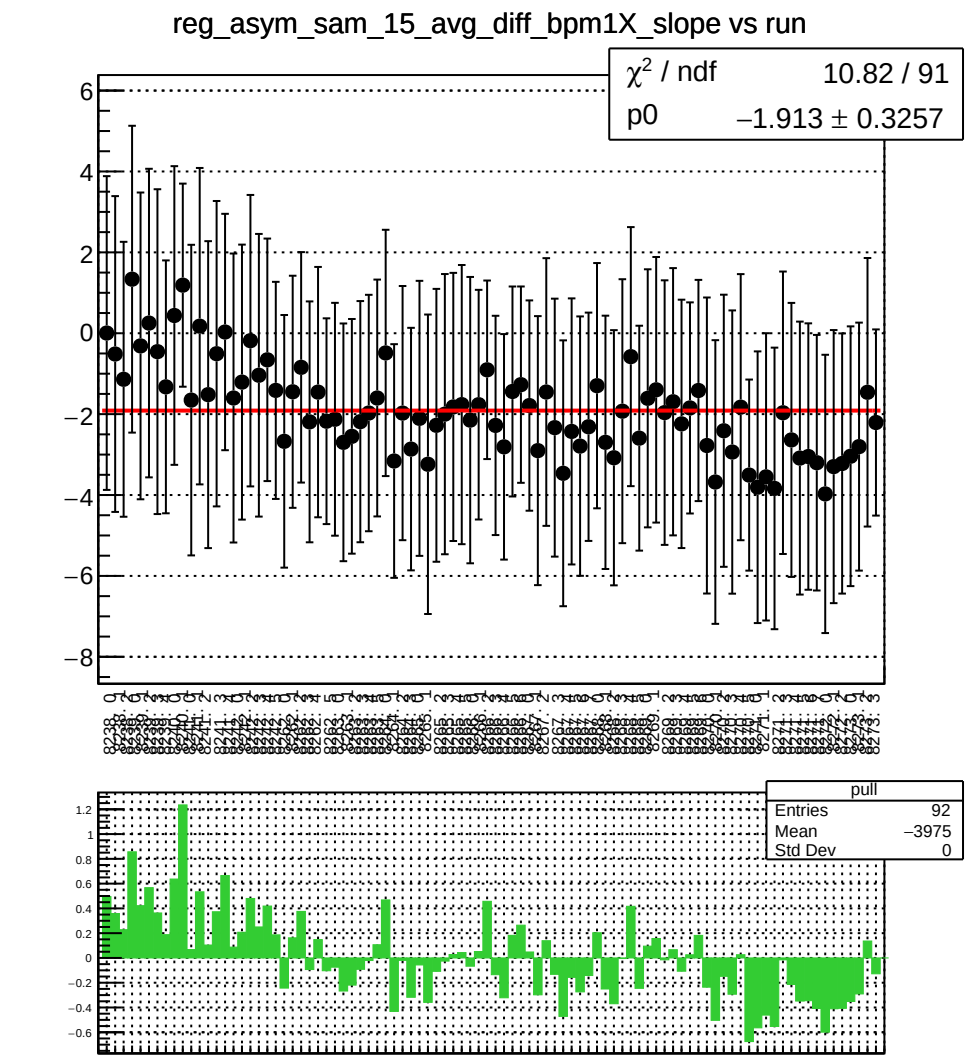

pull1D
Entries 92
Mean −0.02499
Std Dev 0.4895

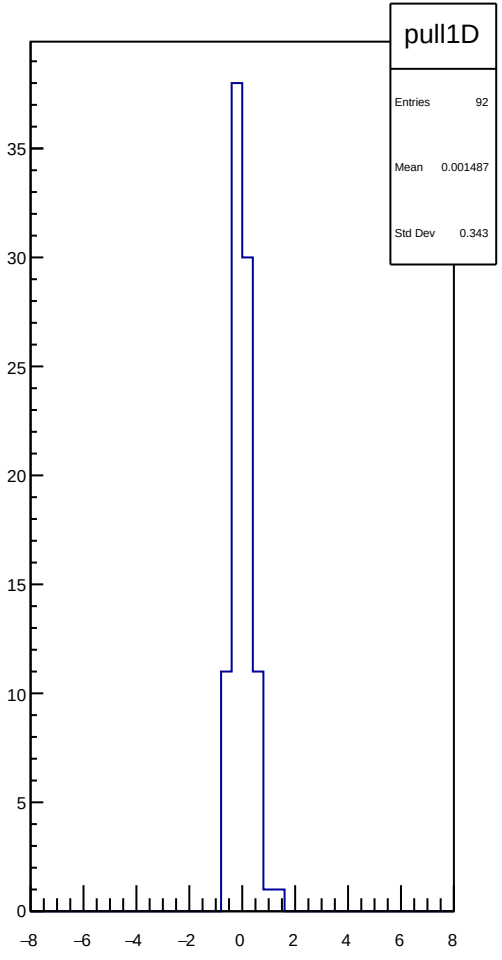

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.58 / 91
p0 0.7657 ± 2.701
pull
Entries 92
Mean −954.8
Std Dev 0

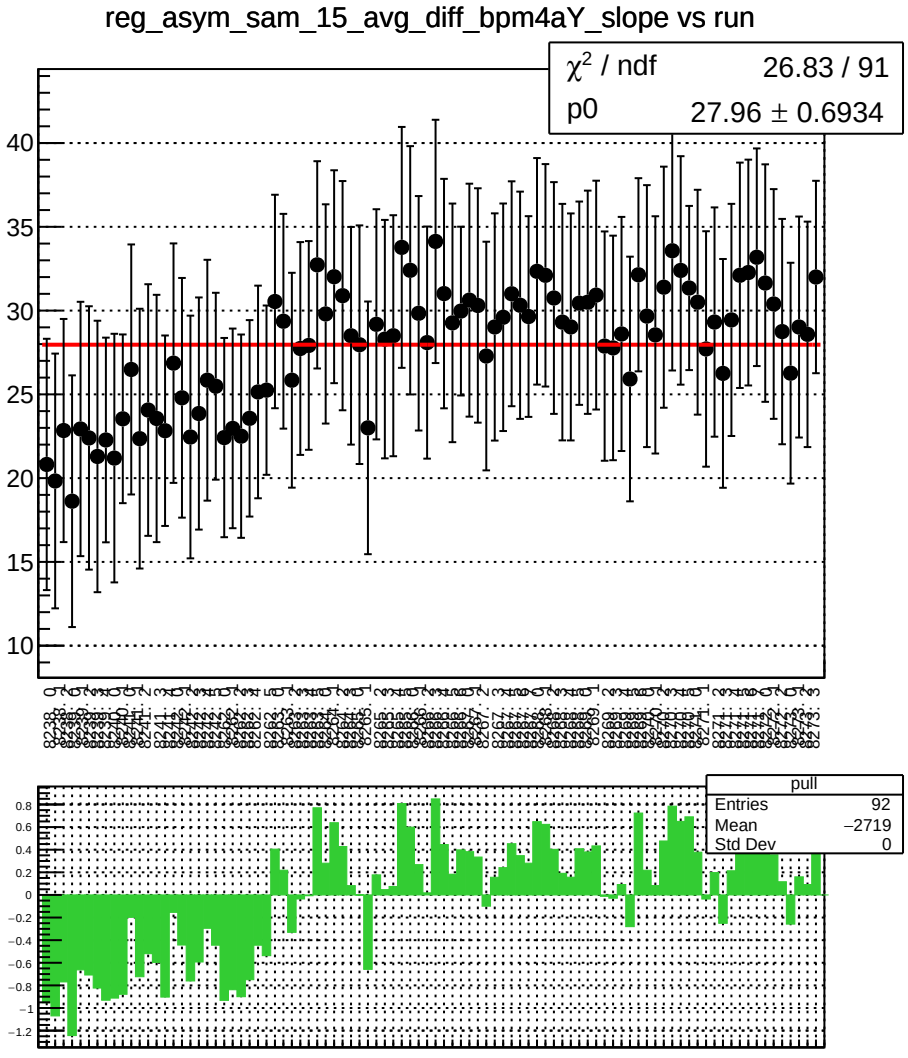

pull1D
Entries 92
Mean −0.001496
Std Dev 0.4115

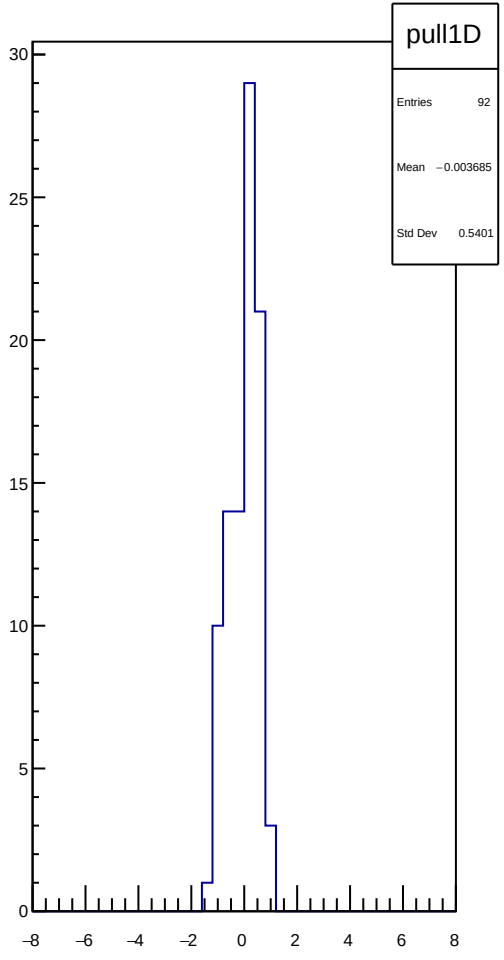

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 22.03 / 91
p0 −21.61 ± 0.1461
pull
Entries 92
Mean −1.299
Std Dev 50.76

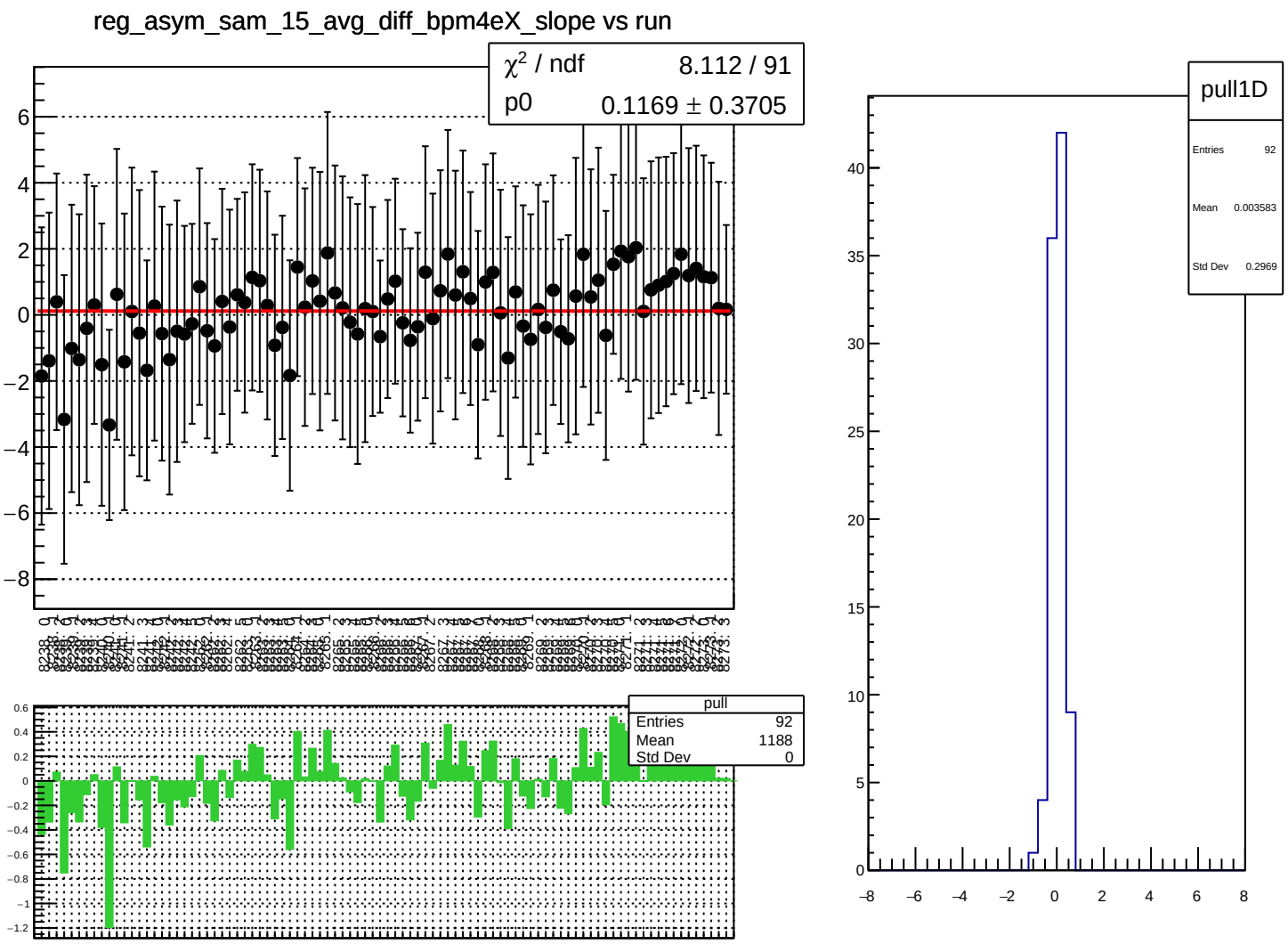

pull1D
Entries 92
Mean −0.01866
Std Dev 0.489

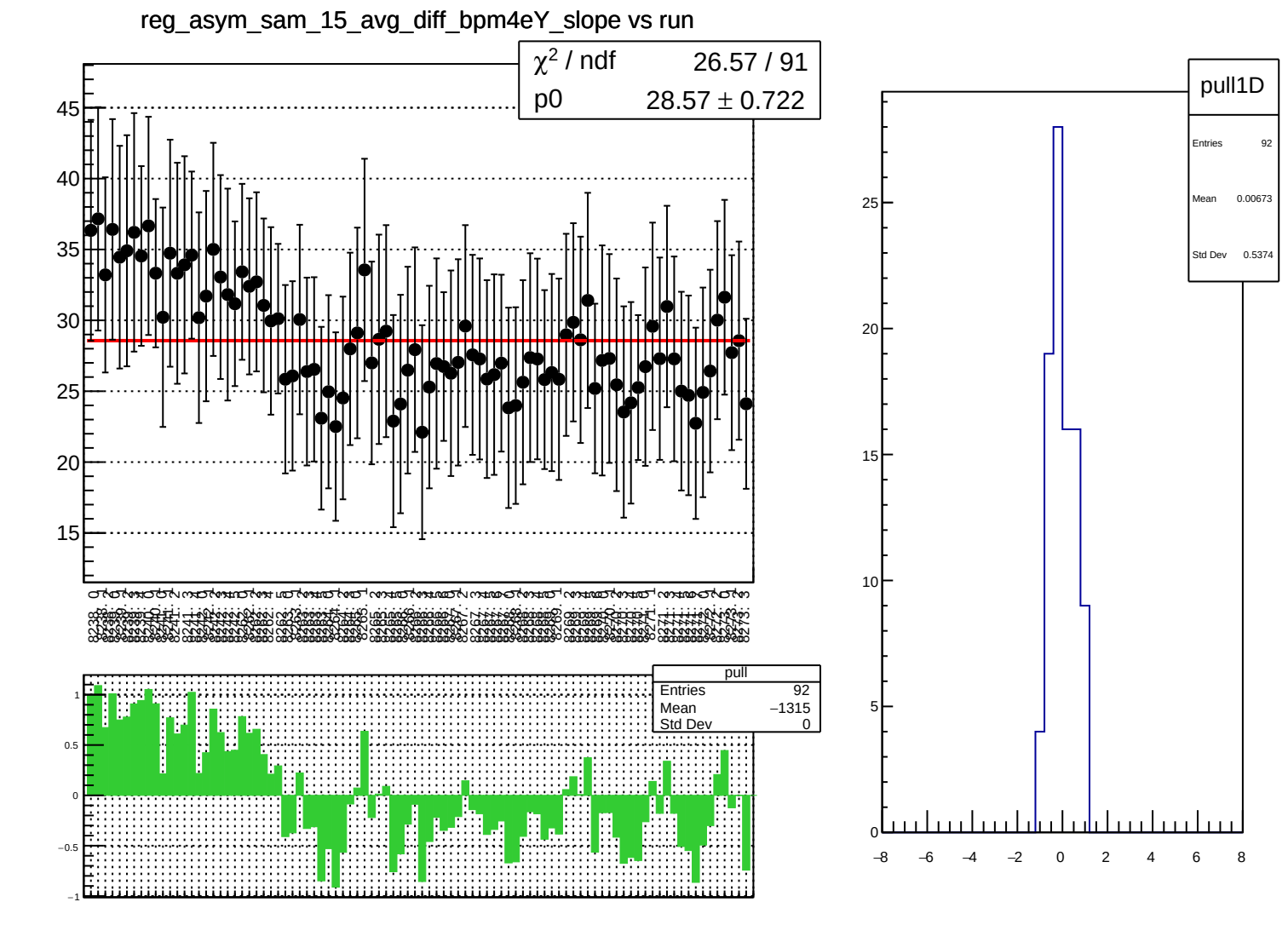

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 10.82 / 91
p0 −1.913 ± 0.3257
pull
Entries 92
Mean −3975
Std Dev 0

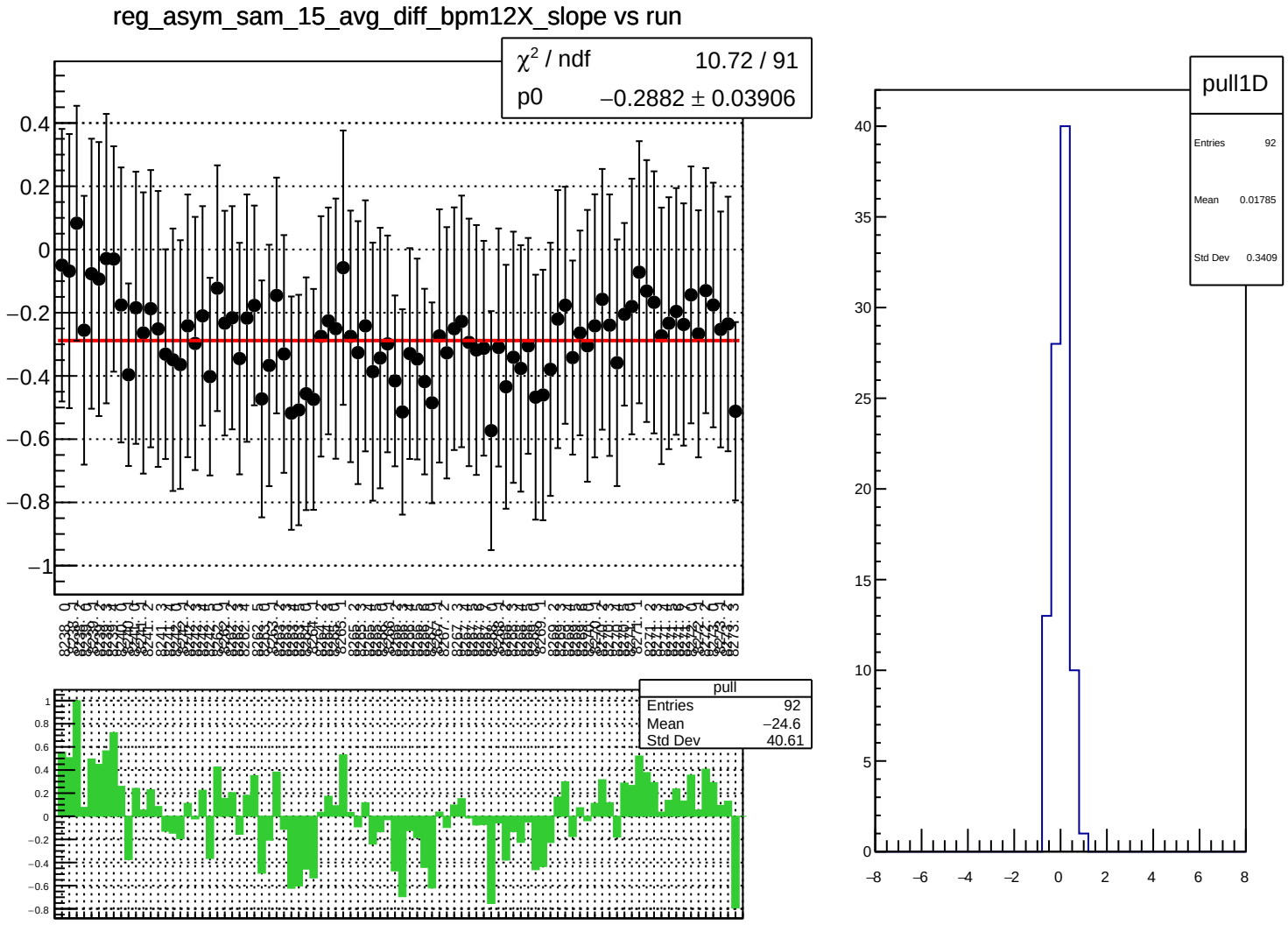

pull1D
Entries 92
Mean 0.001487
Std Dev 0.343

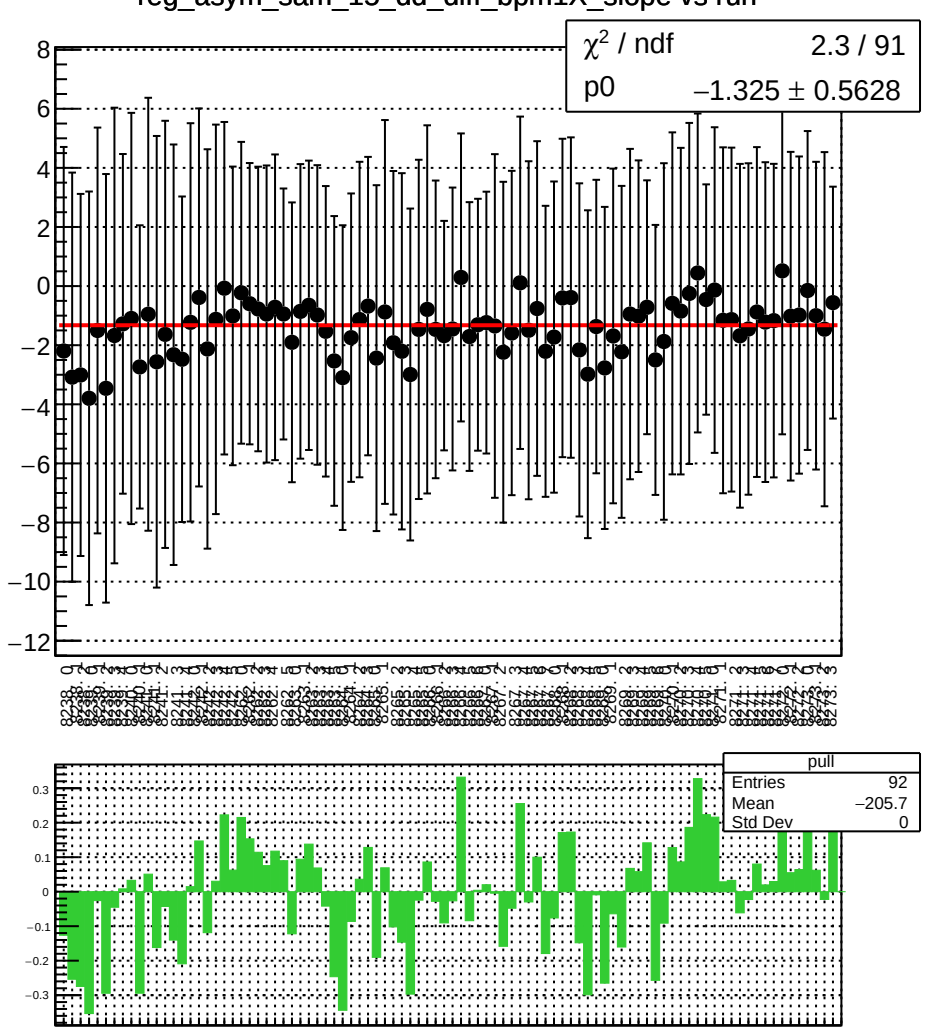

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.83 / 91
p0 27.96 ± 0.6934
pull
Entries 92
Mean −2719
Std Dev 0

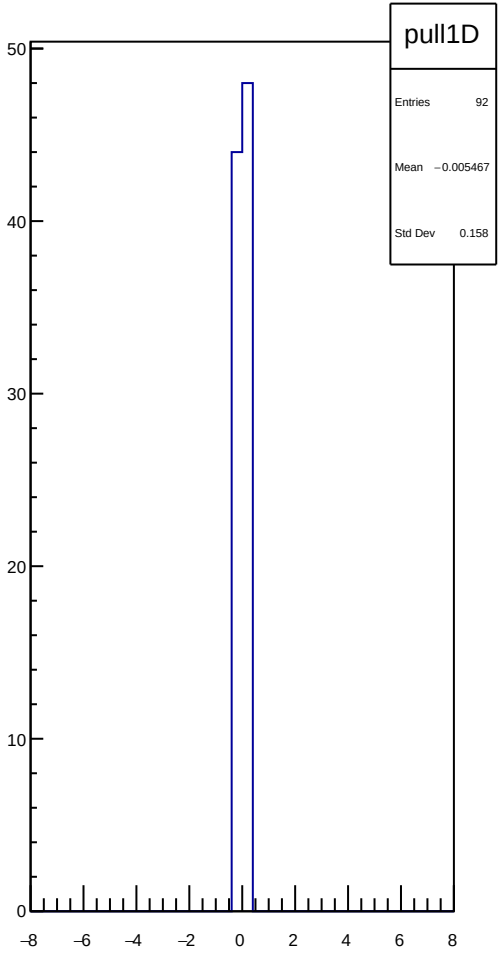

pull1D
Entries 92
Mean −0.003685
Std Dev 0.5401

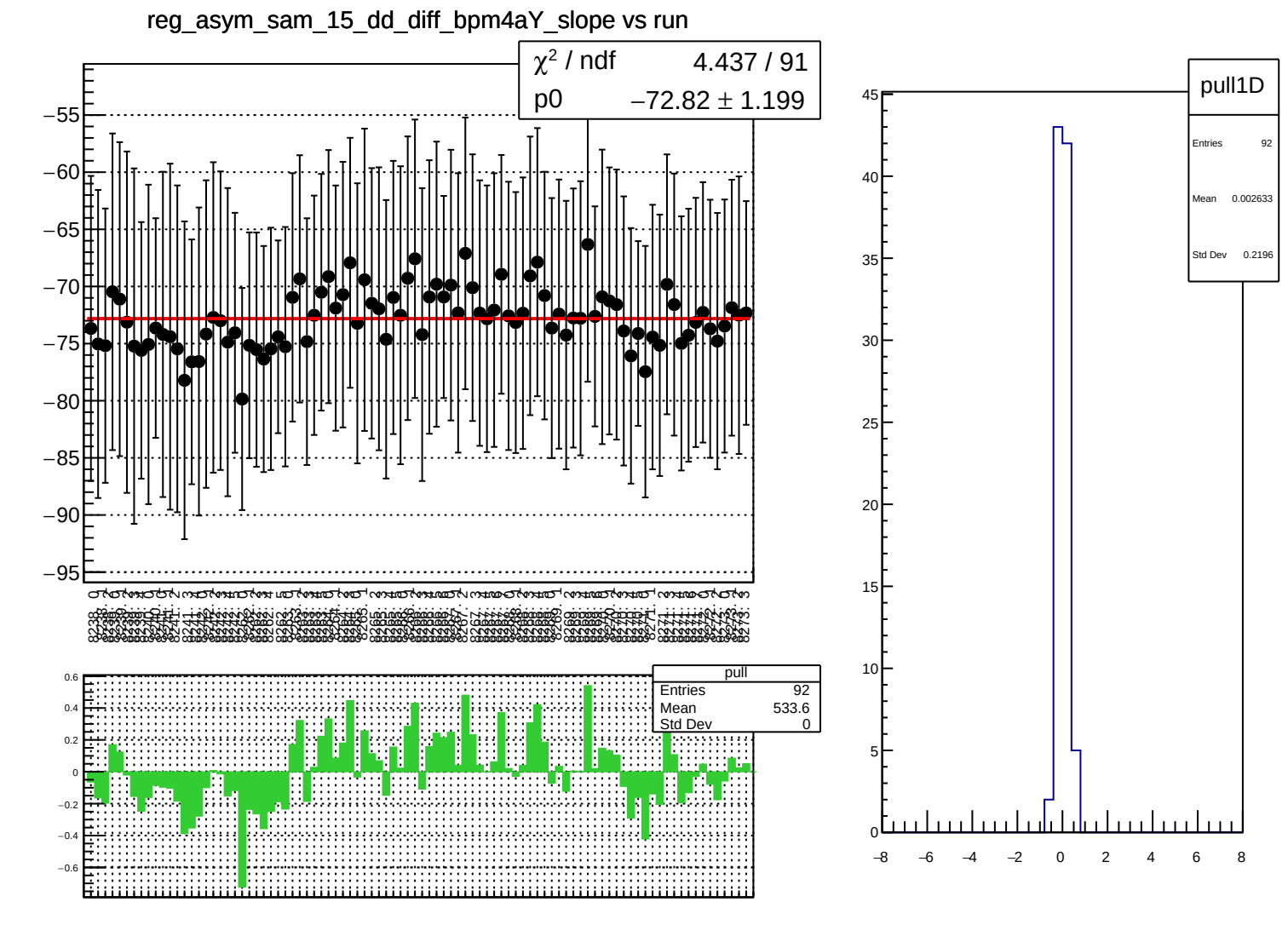

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.112 / 91
p0 0.1169 ± 0.3705
pull
Entries 92
Mean 1188
Std Dev 0
pull1D
Entries 92
Mean 0.003583
Std Dev 0.2969

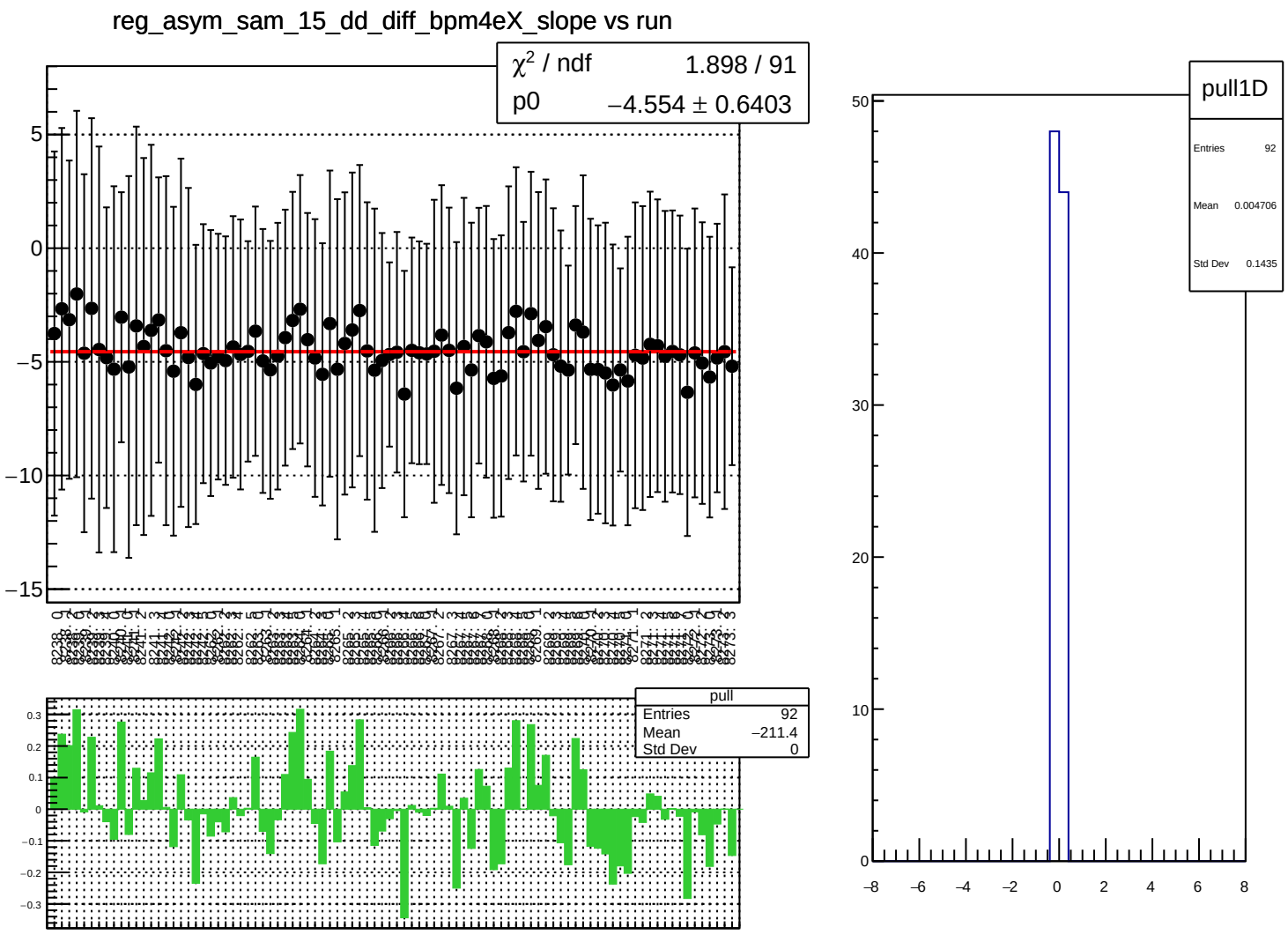

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.57 / 91
p0 28.57 ± 0.722
pull
Entries 92
Mean −1315
Std Dev 0
pull1D
Entries 92
Mean 0.00673
Std Dev 0.5374

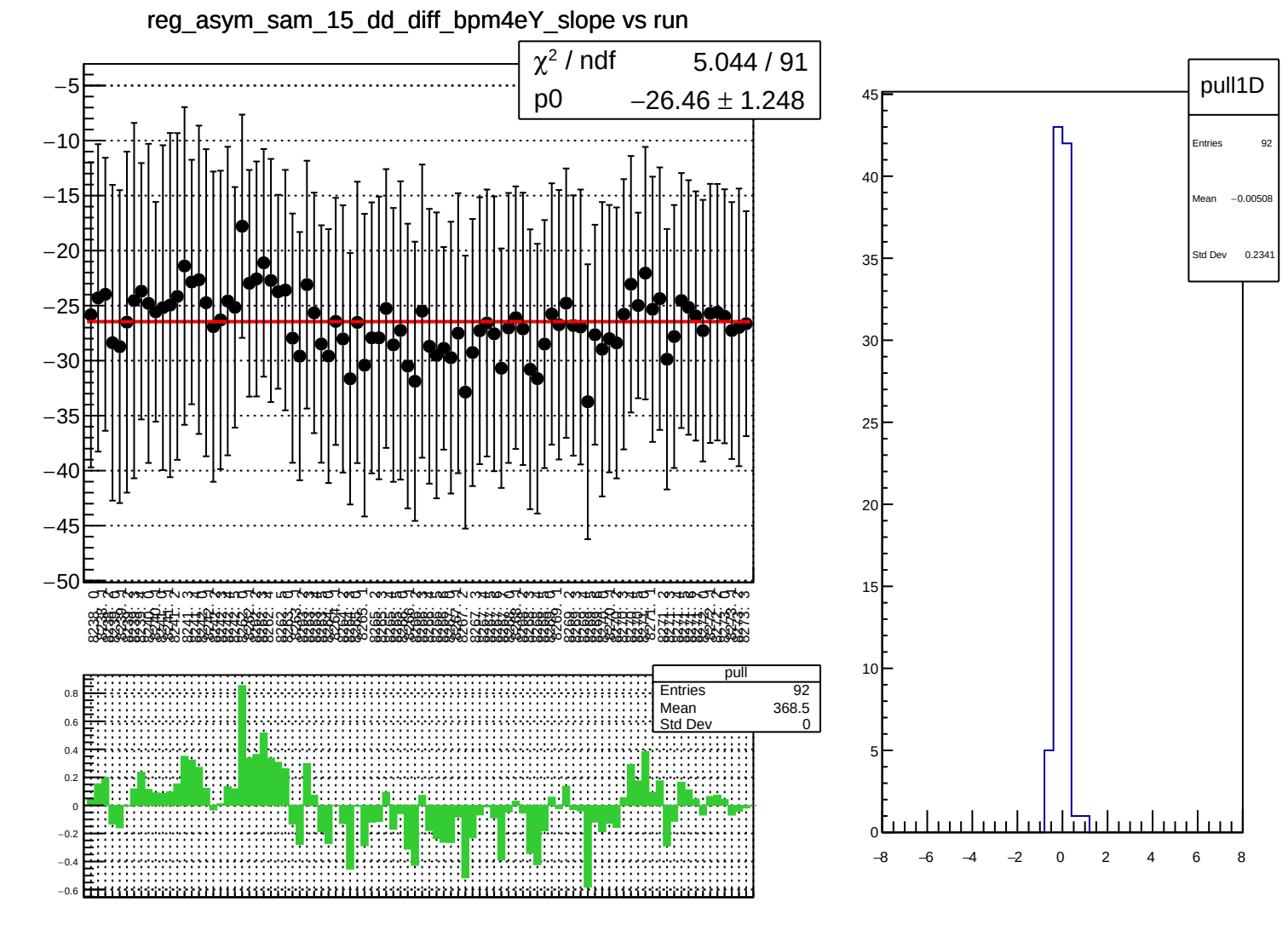

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 10.72 / 91
p0 −0.2882 ± 0.03906
pull
Entries 92
Mean −24.6
Std Dev 40.61
pull1D
Entries 92
Mean 0.01785
Std Dev 0.3409

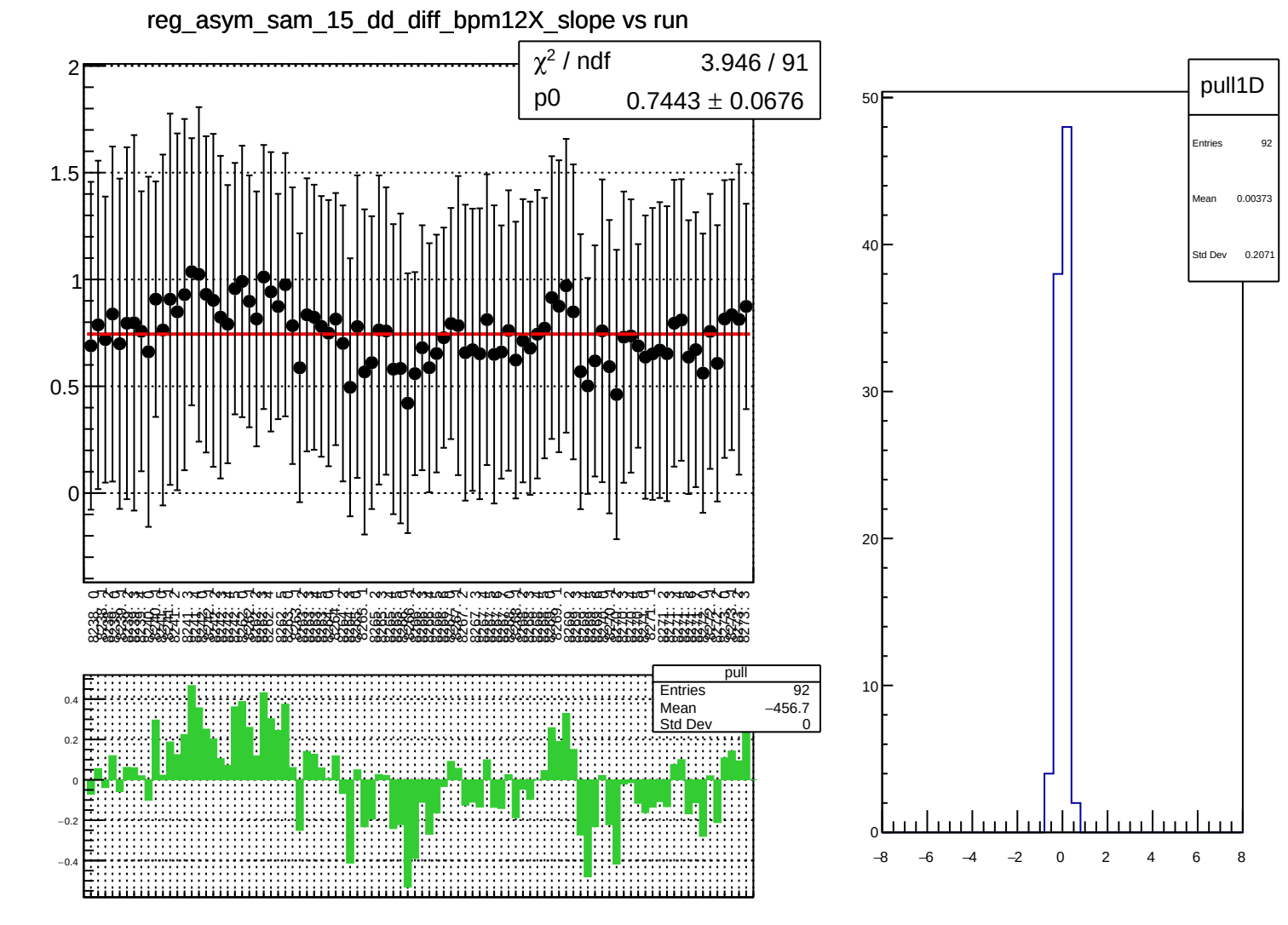

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 2.3 / 91
p0 −1.325 ± 0.5628
pull
Entries 92
Mean −205.7
Std Dev 0

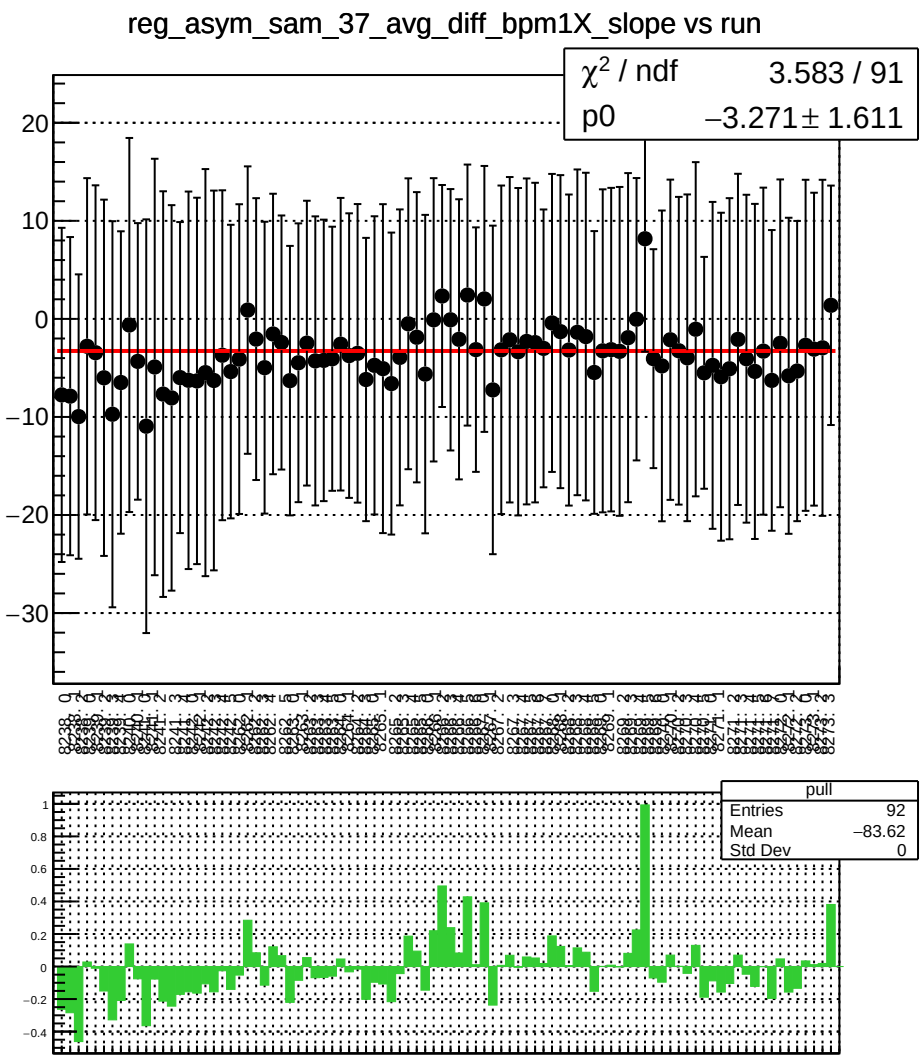

pull1D
Entries 92
Mean −0.005467
Std Dev 0.158

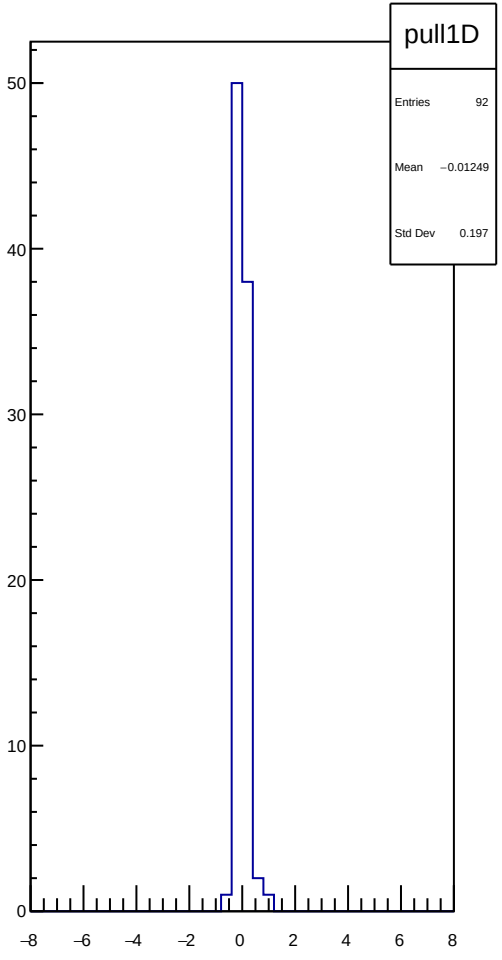

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.437 / 91
p0 −72.82 ± 1.199
pull
Entries 92
Mean 533.6
Std Dev 0
pull1D
Entries 92
Mean 0.002633
Std Dev 0.2196

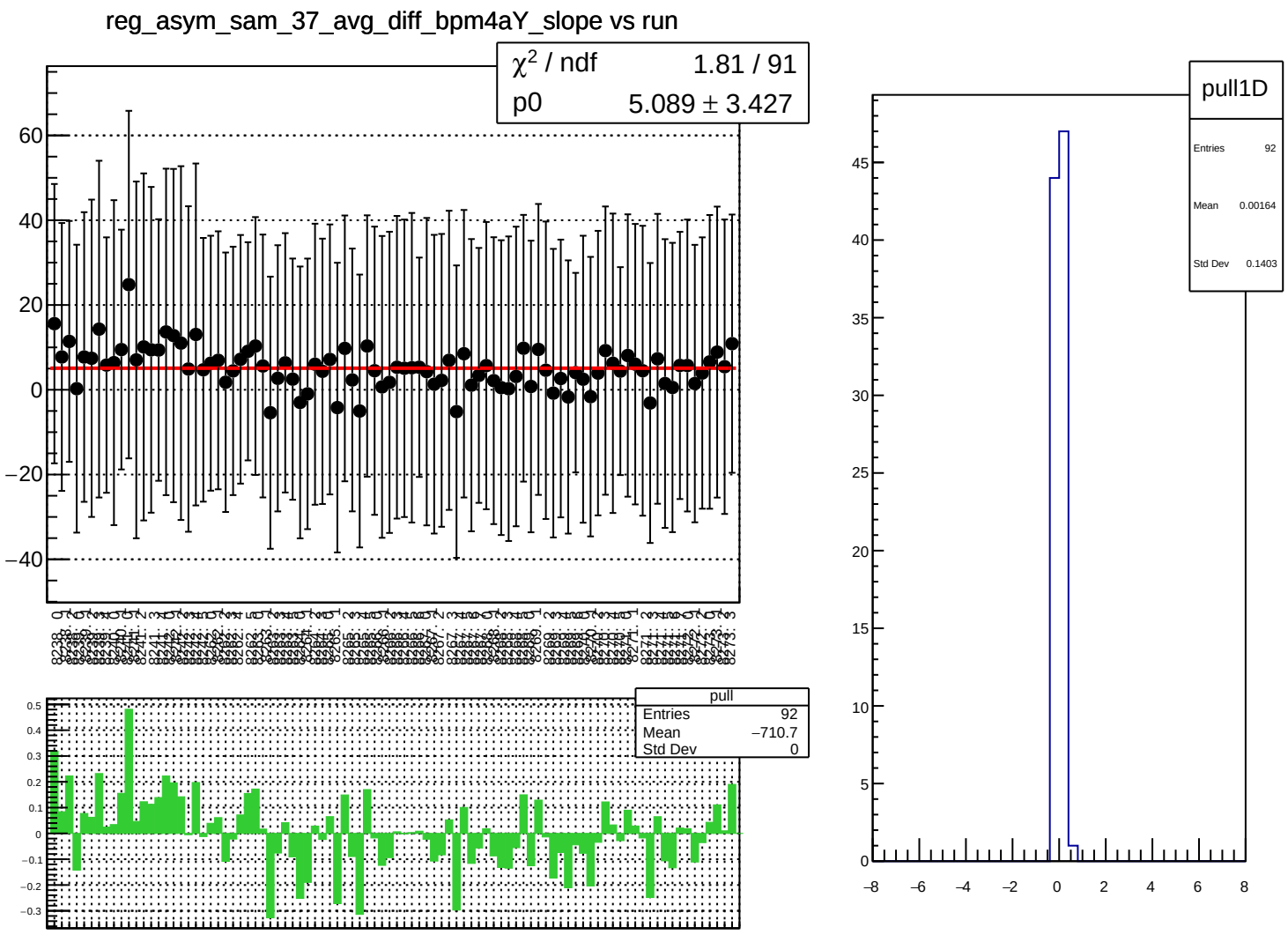

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.898 / 91
p0 −4.554 ± 0.6403
pull
Entries 92
Mean −211.4
Std Dev 0
pull1D
Entries 92
Mean 0.004706
Std Dev 0.1435

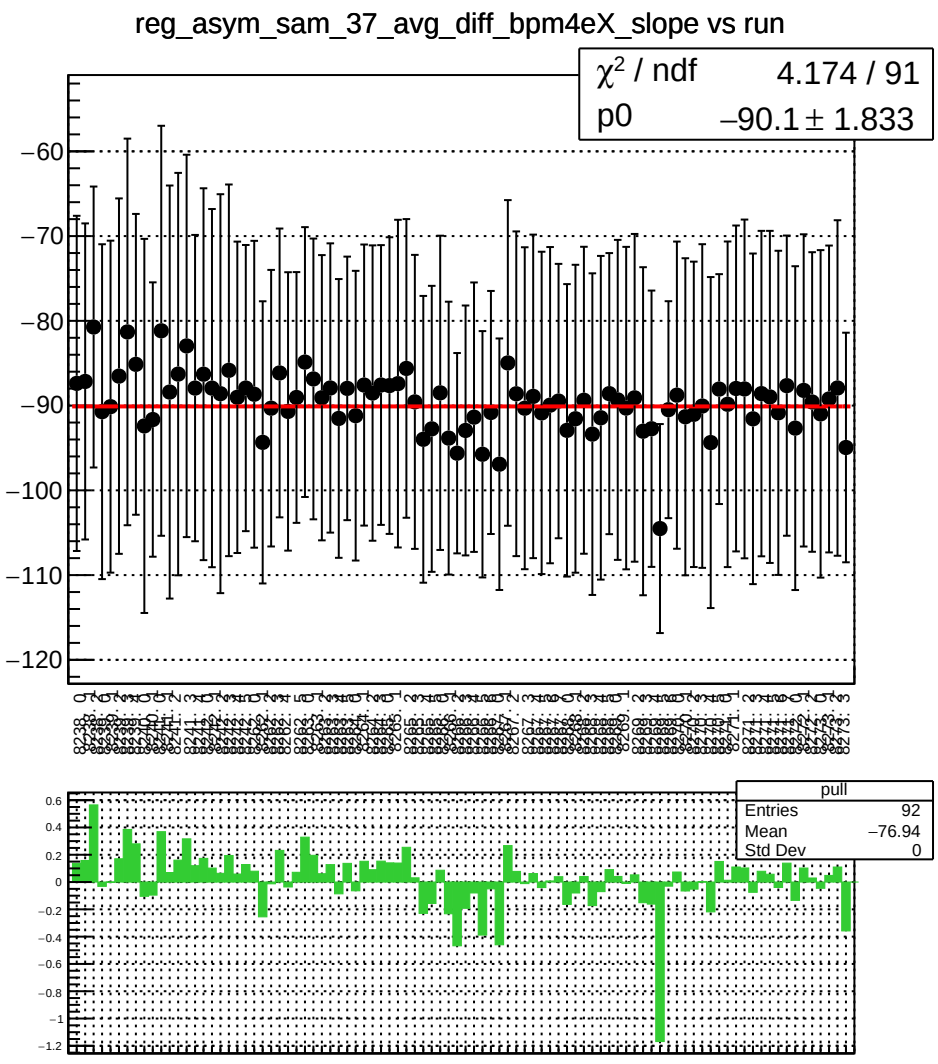

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.044 / 91
p0 −26.46 ± 1.248
pull
Entries 92
Mean 368.5
Std Dev 0
pull1D
Entries 92
Mean −0.00508
Std Dev 0.2341

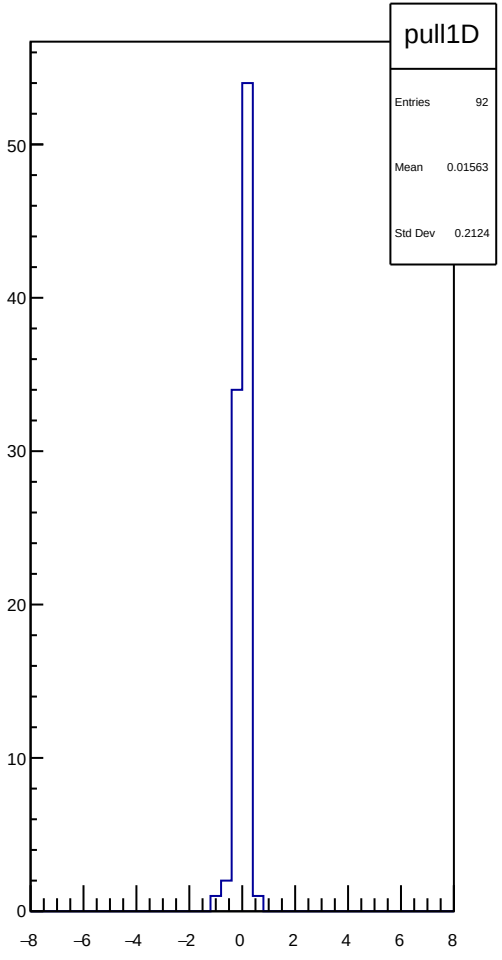

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 3.946 / 91
p0 0.7443 ± 0.0676
pull
Entries 92
Mean −456.7
Std Dev 0
pull1D
Entries 92
Mean 0.00373
Std Dev 0.2071

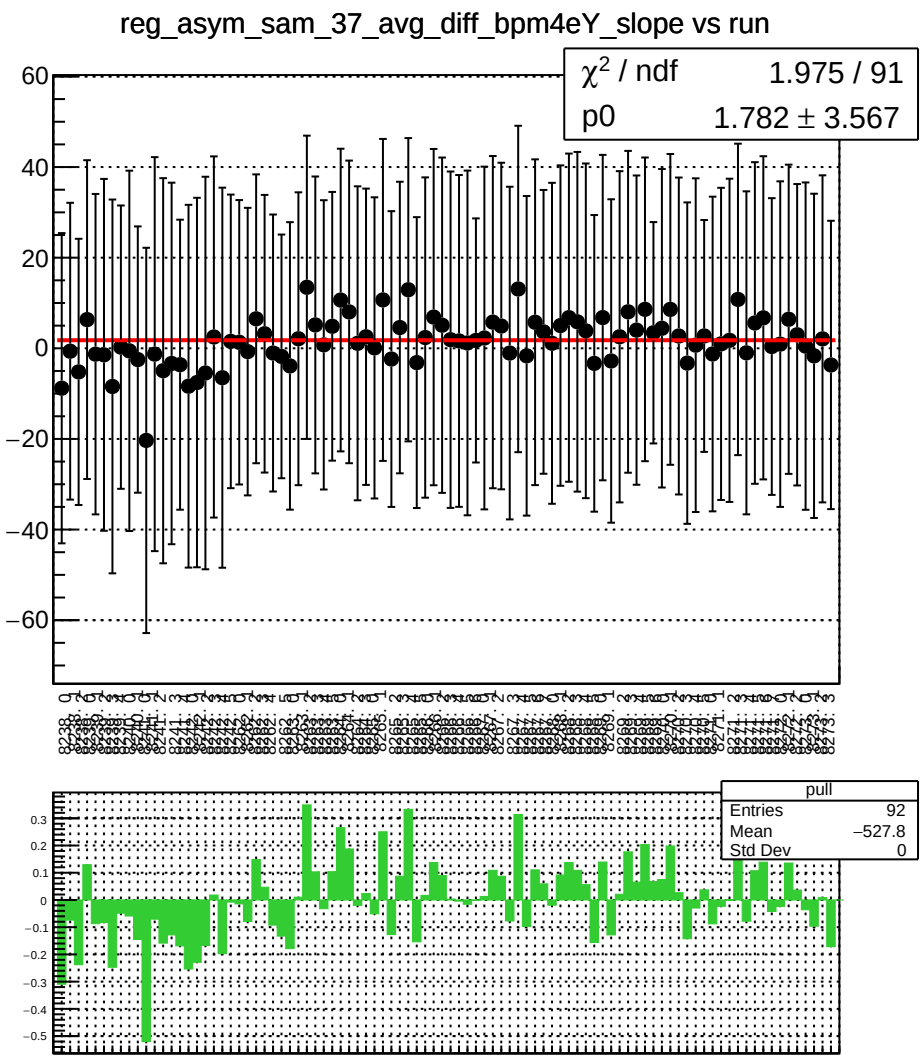

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 3.583 / 91
p0 −3.271 ± 1.611
pull
Entries 92
Mean −83.62
Std Dev 0

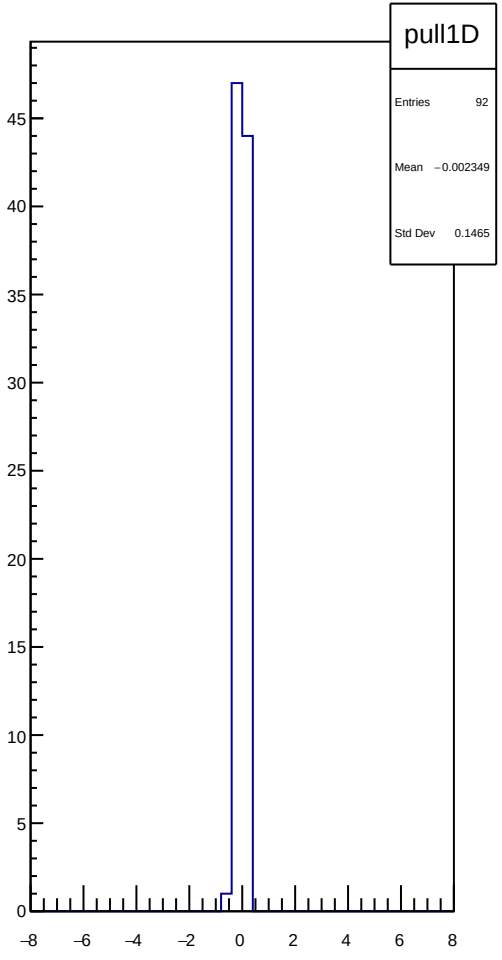

pull1D
Entries 92
Mean −0.01249
Std Dev 0.197

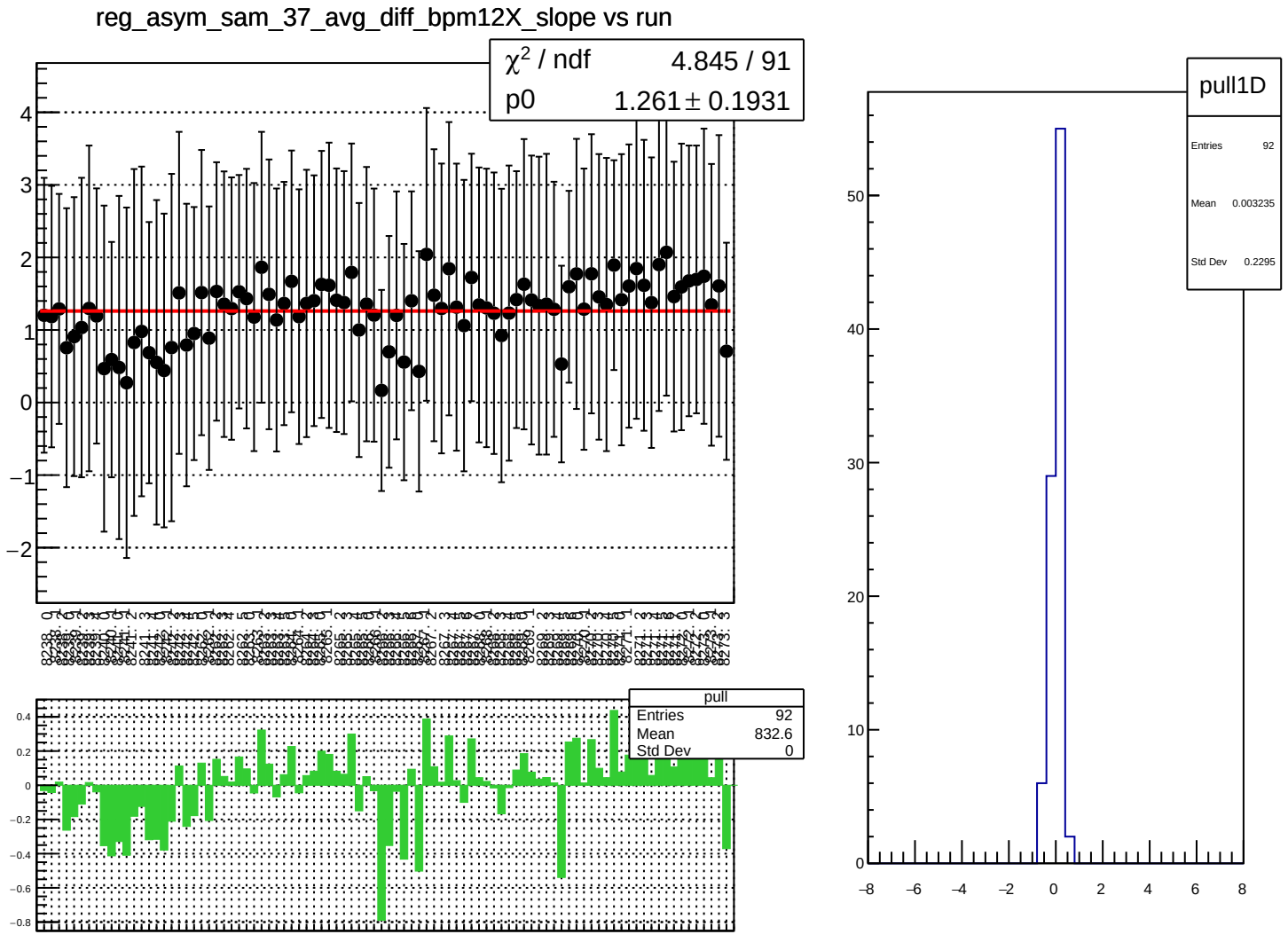

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.81 / 91
p0 5.089 ± 3.427
pull
Entries 92
Mean −710.7
Std Dev 0
pull1D
Entries 92
Mean 0.00164
Std Dev 0.1403

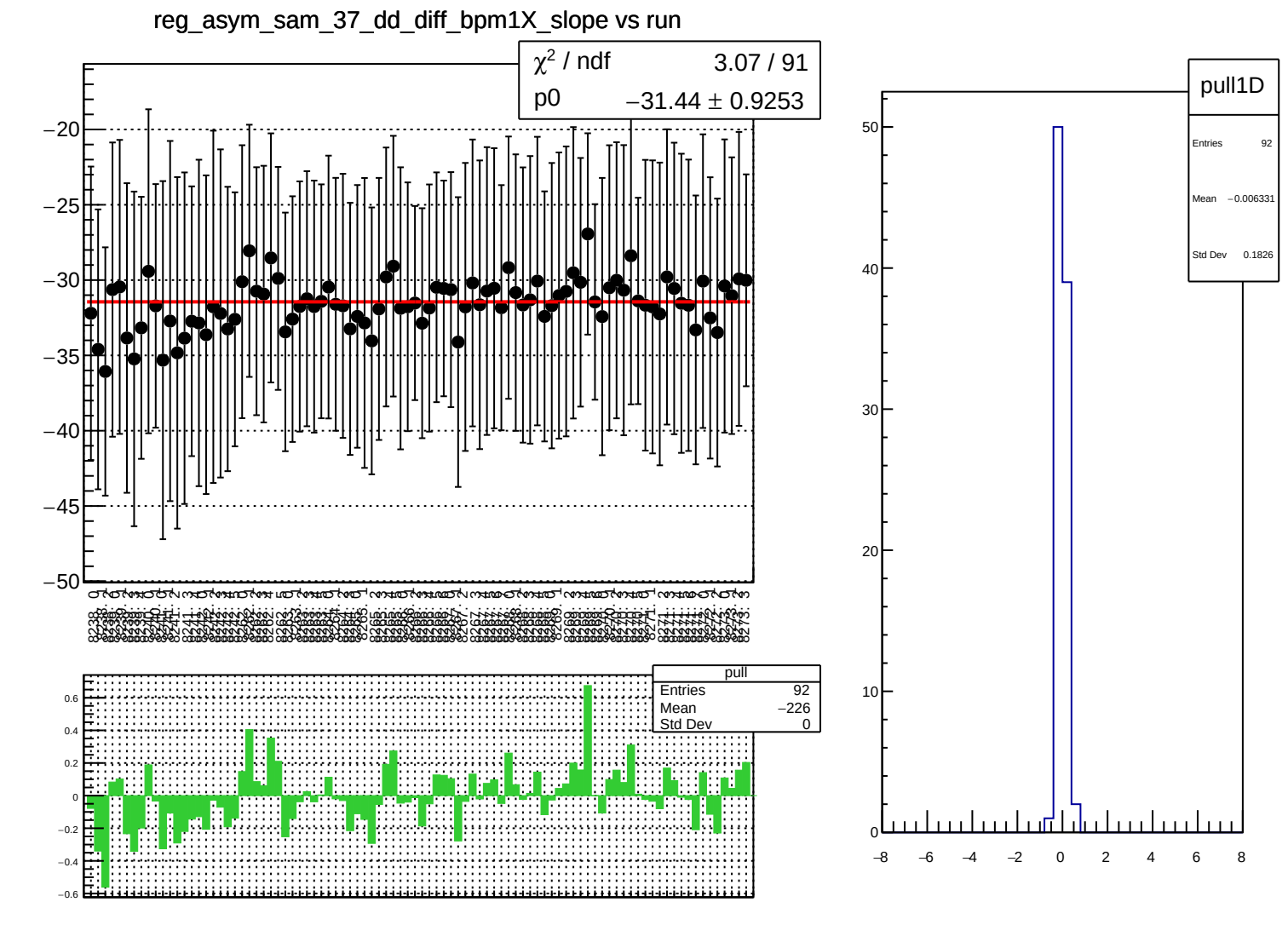

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.174 / 91
p0 −90.1 ± 1.833
pull
Entries 92
Mean −76.94
Std Dev 0

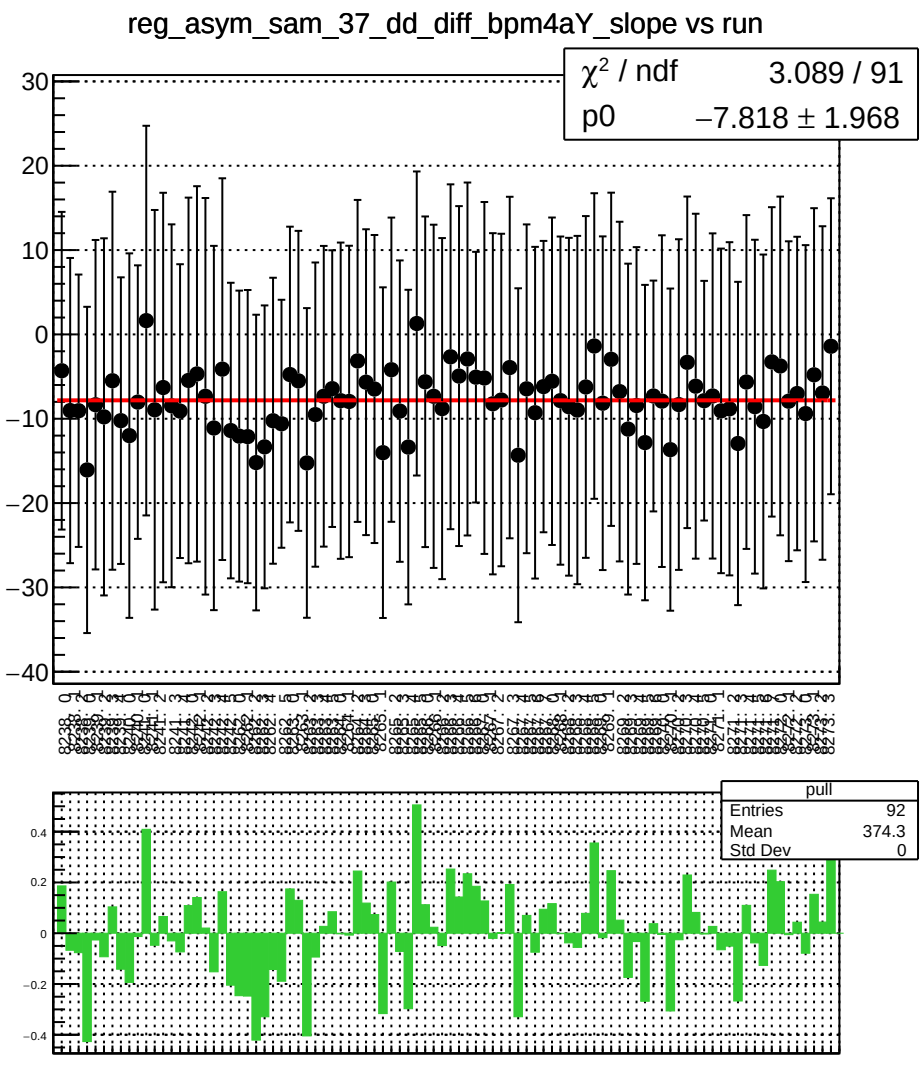

pull1D
Entries 92
Mean 0.01563
Std Dev 0.2124

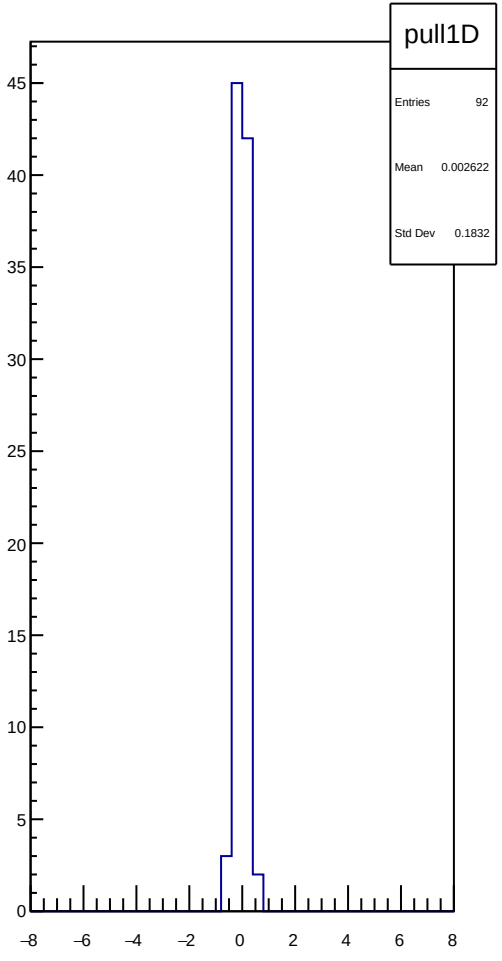

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.975 / 91
p0 1.782 ± 3.567
pull
Entries 92
Mean −527.8
Std Dev 0

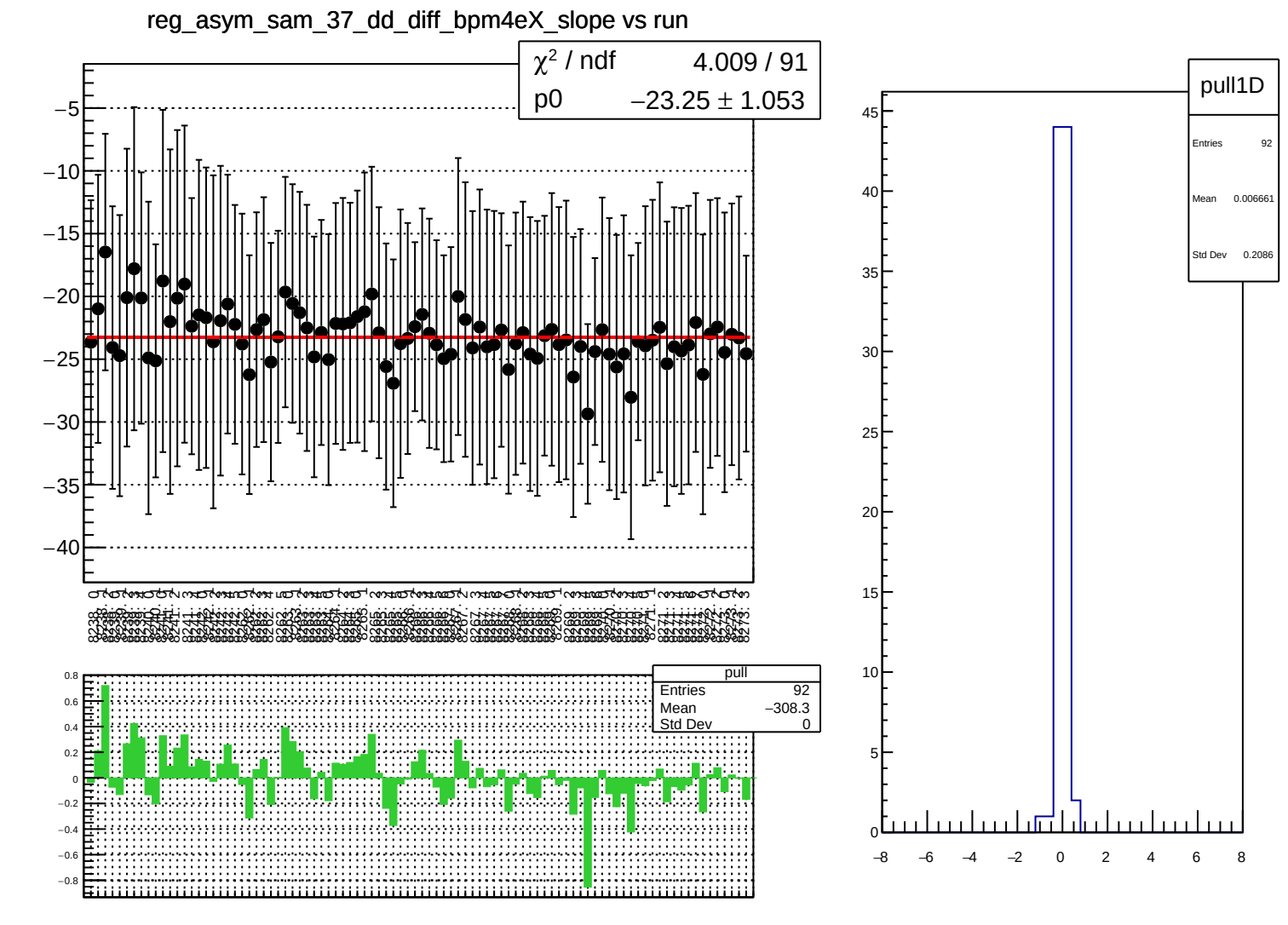

pull1D
Entries 92
Mean −0.002349
Std Dev 0.1465

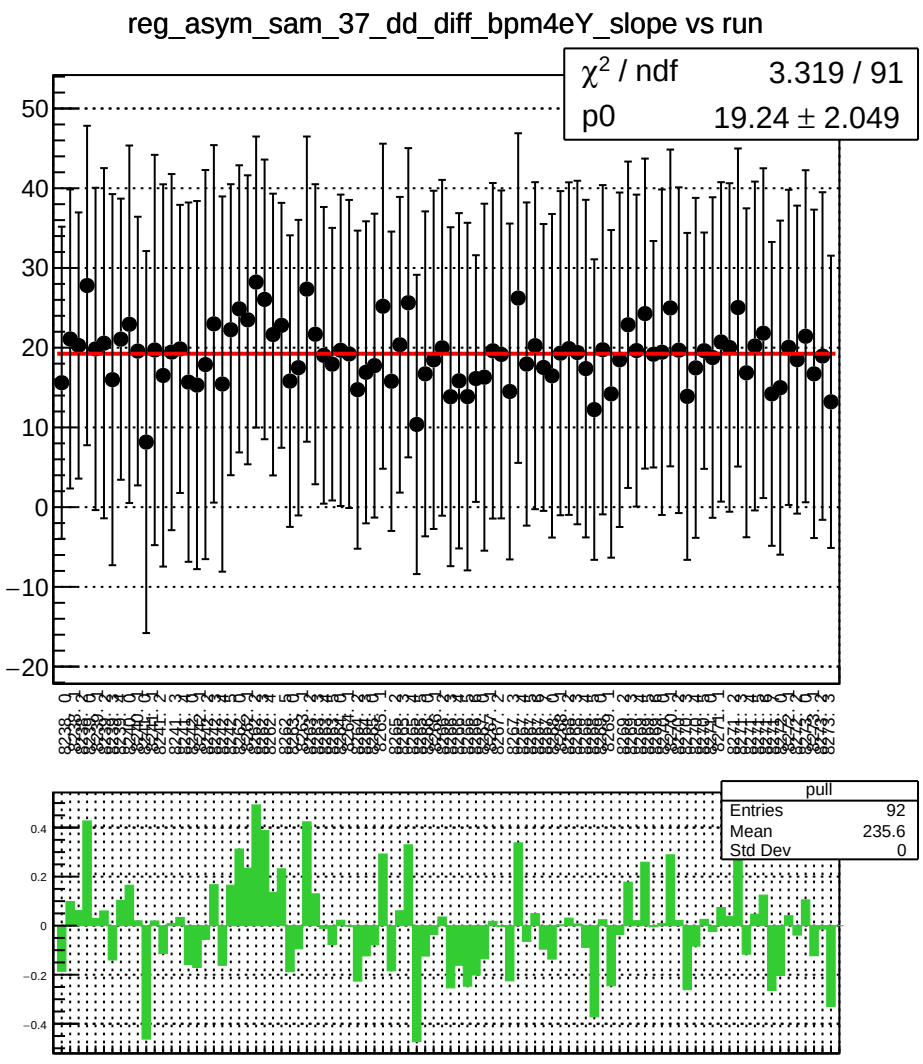

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 4.845 / 91
p0 1.261 ± 0.1931
pull
Entries 92
Mean 832.6
Std Dev 0
pull1D
Entries 92
Mean 0.003235
Std Dev 0.2295

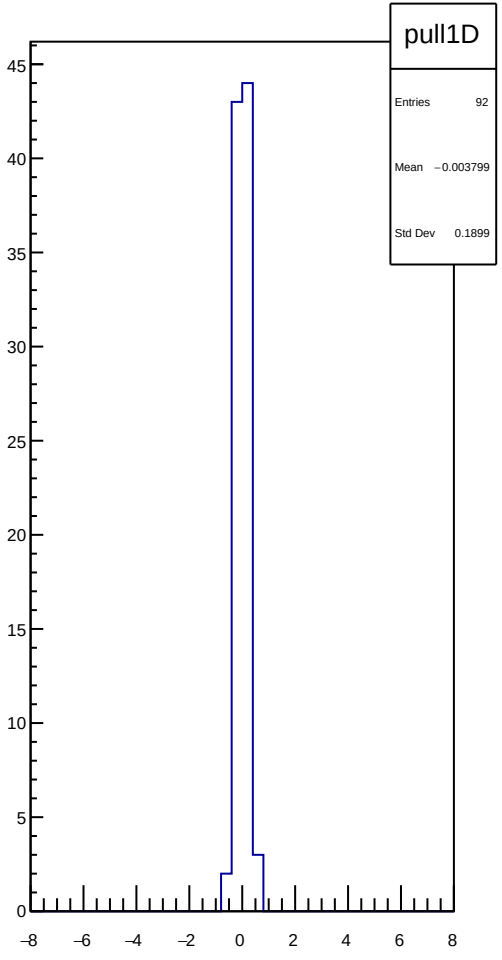

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 3.07 / 91
p0 −31.44 ± 0.9253
pull
Entries 92
Mean −226
Std Dev 0
pull1D
Entries 92
Mean −0.006331
Std Dev 0.1826

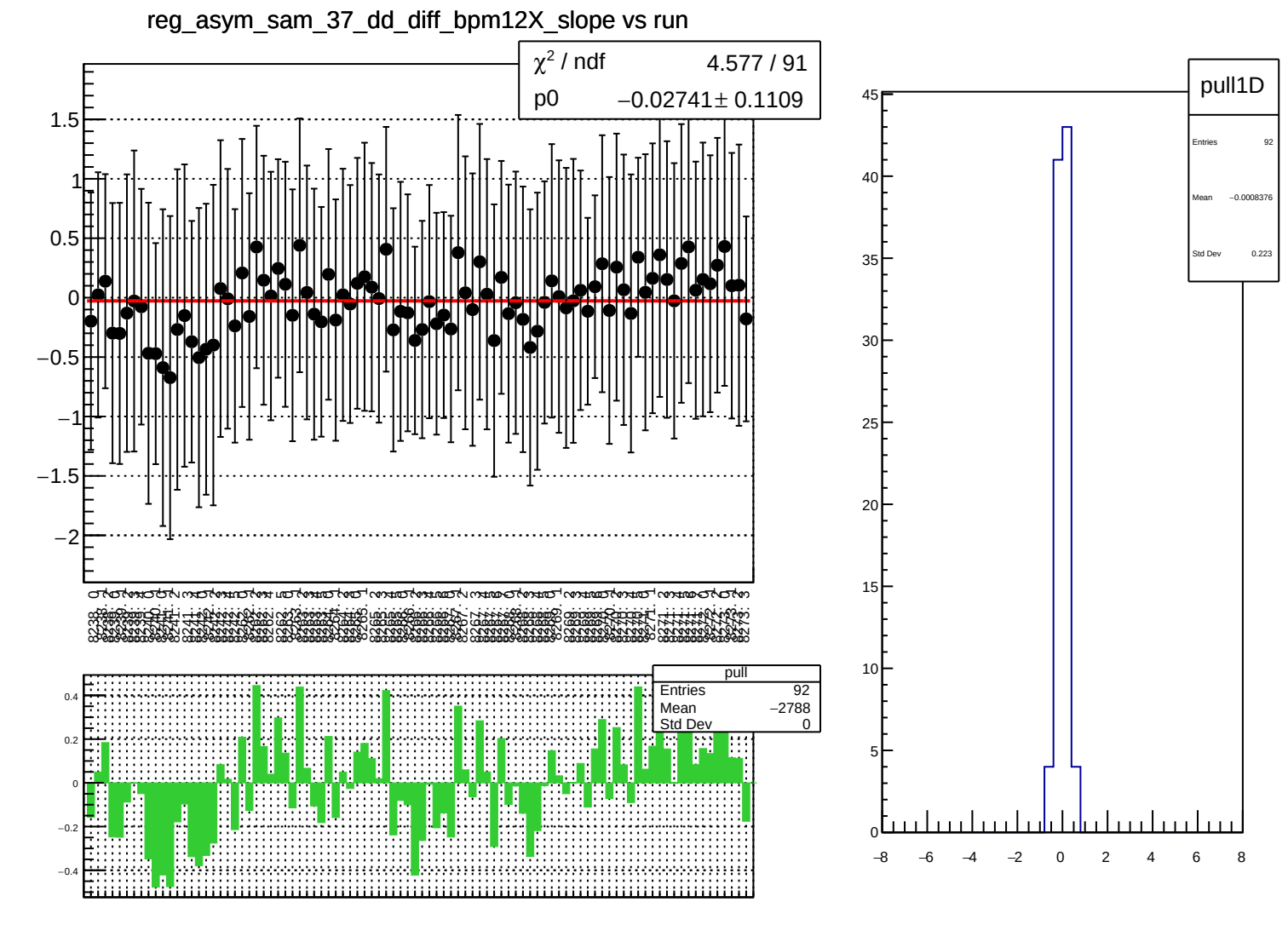

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.089 / 91
p0 −7.818 ± 1.968
pull
Entries 92
Mean 374.3
Std Dev 0

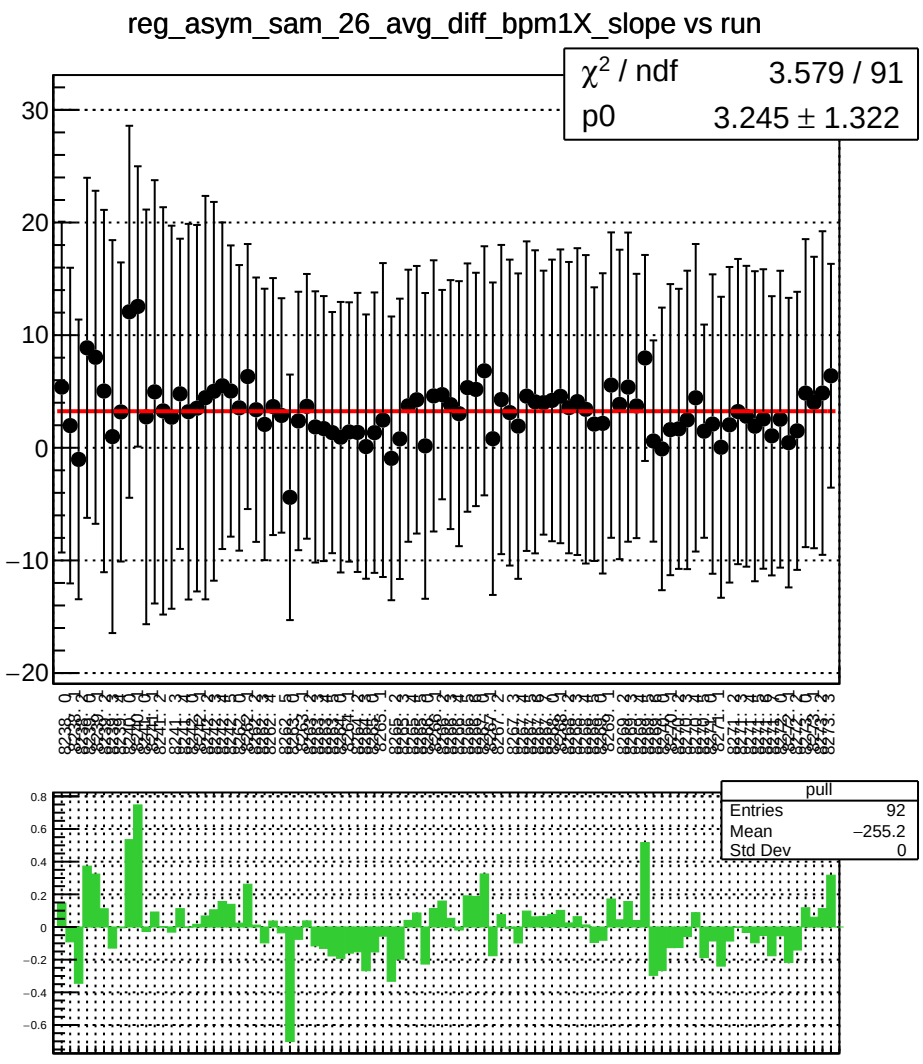

pull1D
Entries 92
Mean 0.002622
Std Dev 0.1832

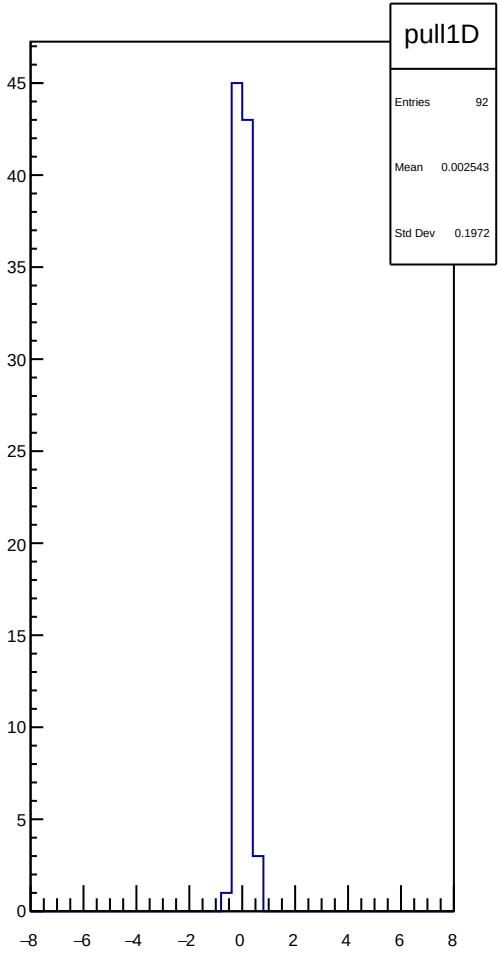

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.009 / 91
p0 −23.25 ± 1.053
pull
Entries 92
Mean −308.3
Std Dev 0
pull1D
Entries 92
Mean 0.006661
Std Dev 0.2086

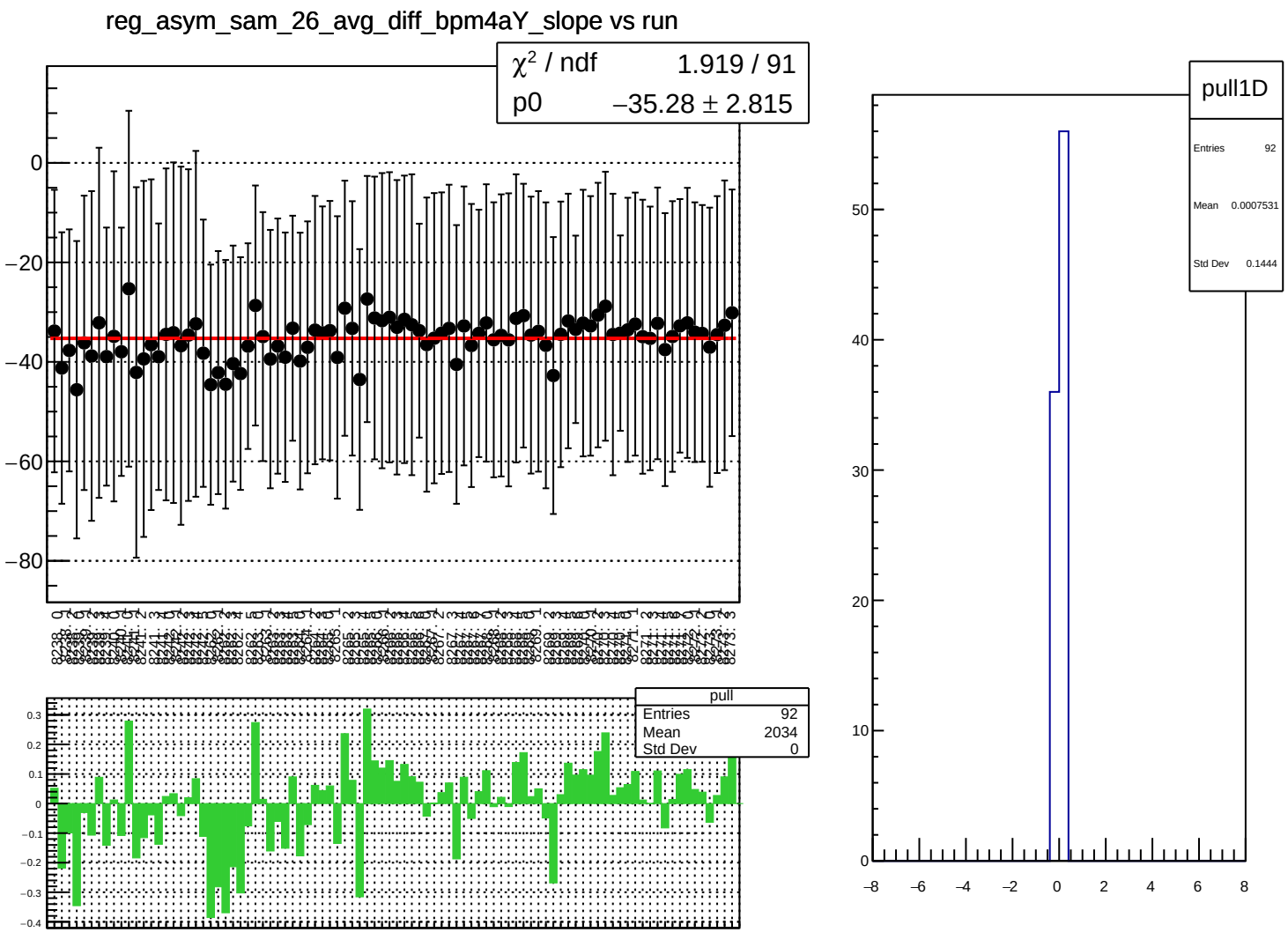

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.319 / 91
p0 19.24 ± 2.049
pull
Entries 92
Mean 235.6
Std Dev 0

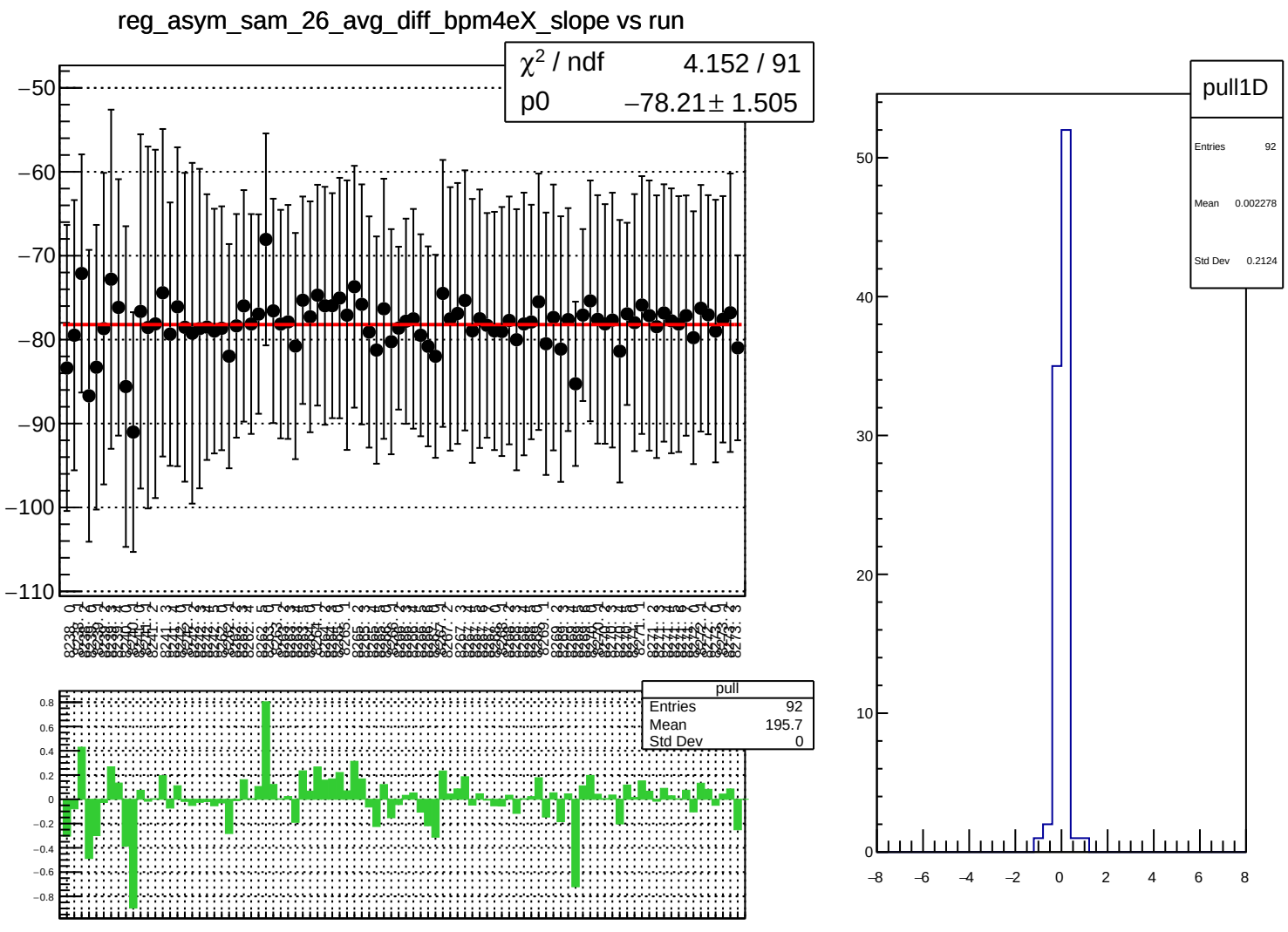

pull1D
Entries 92
Mean −0.003799
Std Dev 0.1899

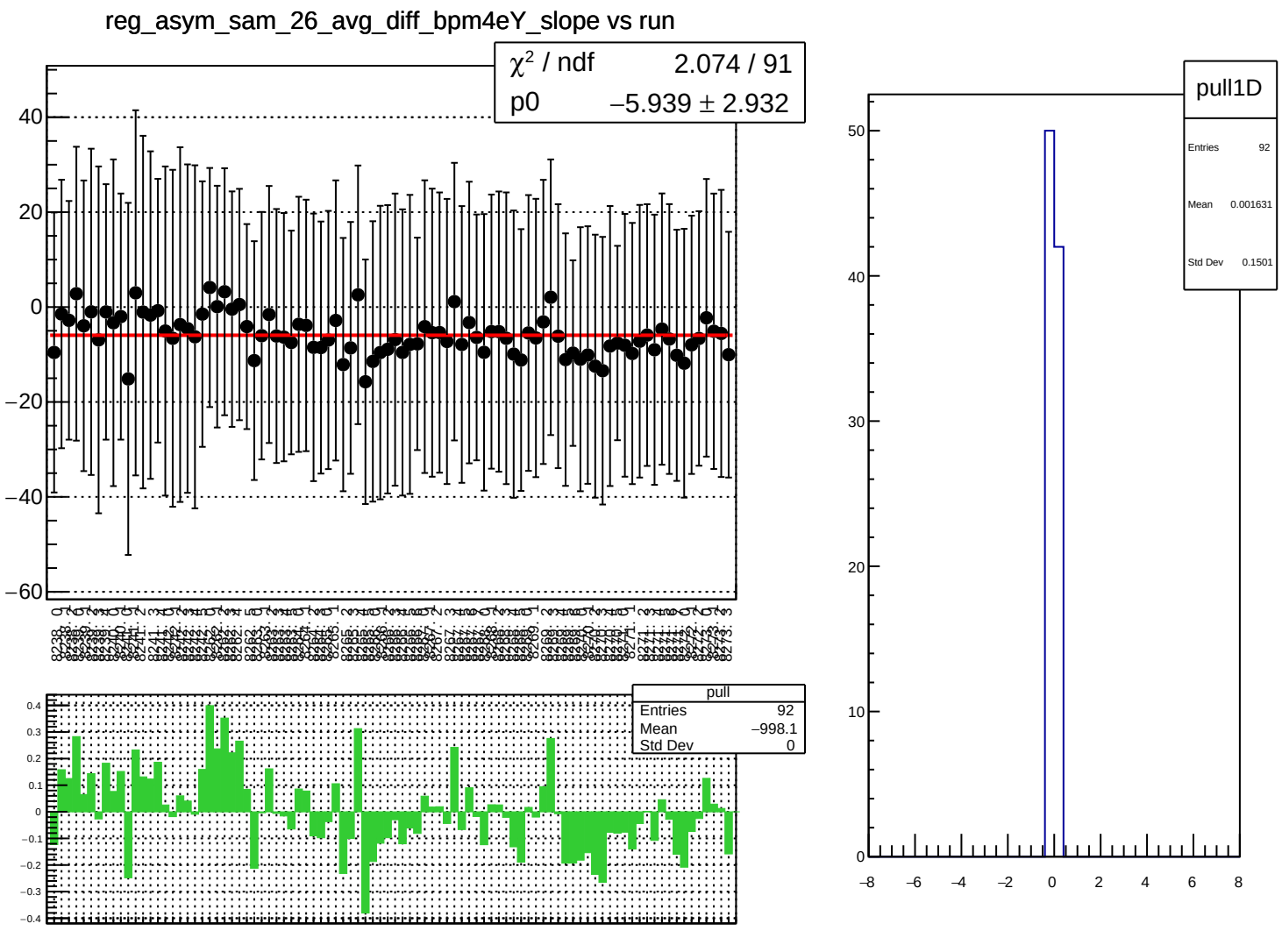

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 4.577 / 91
p0 −0.02741 ± 0.1109
pull
Entries 92
Mean −2788
Std Dev 0
pull1D
Entries 92
Mean −0.0008376
Std Dev 0.223

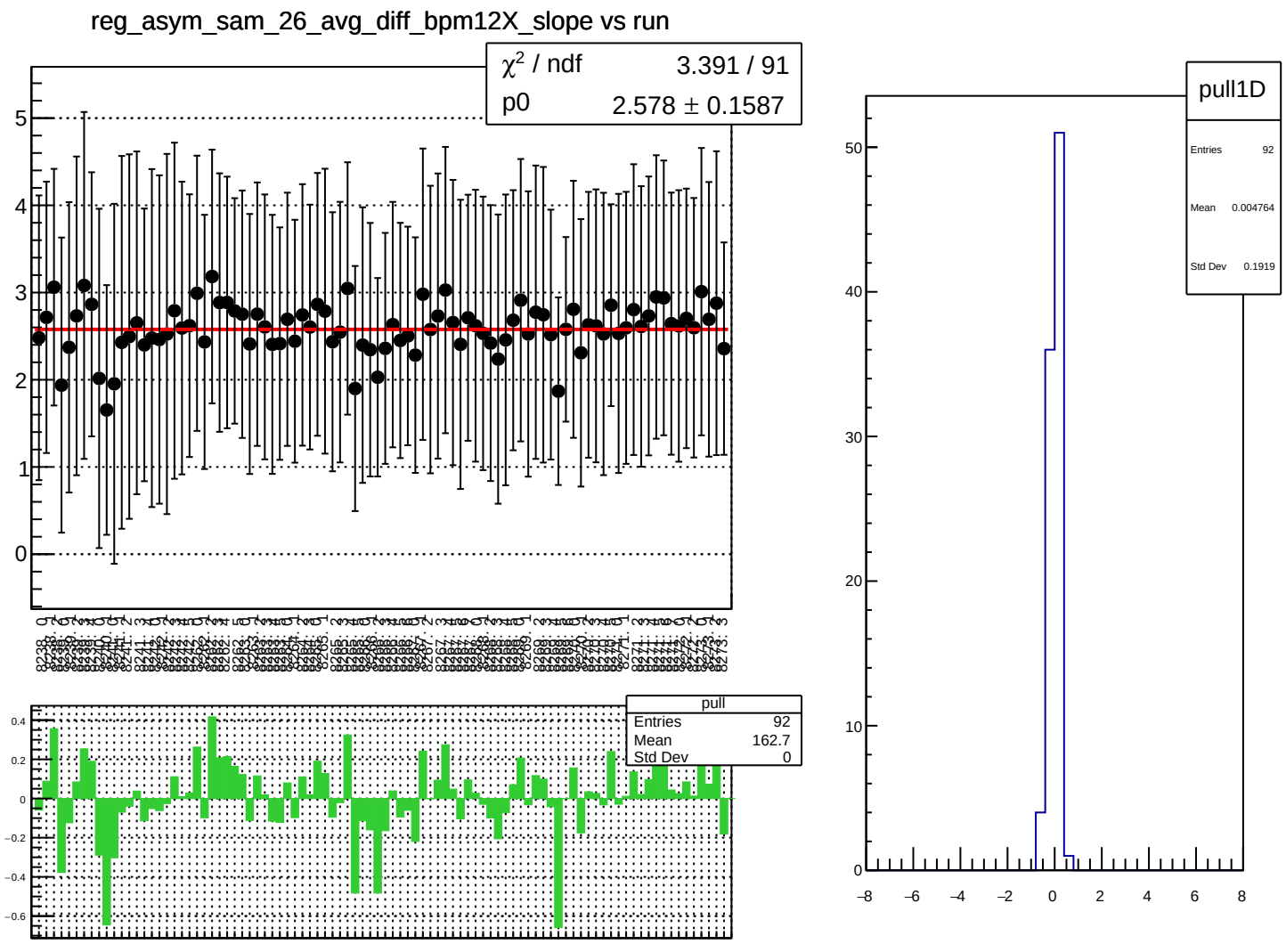

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 3.579 / 91
p0 3.245 ± 1.322
pull
Entries 92
Mean −255.2
Std Dev 0

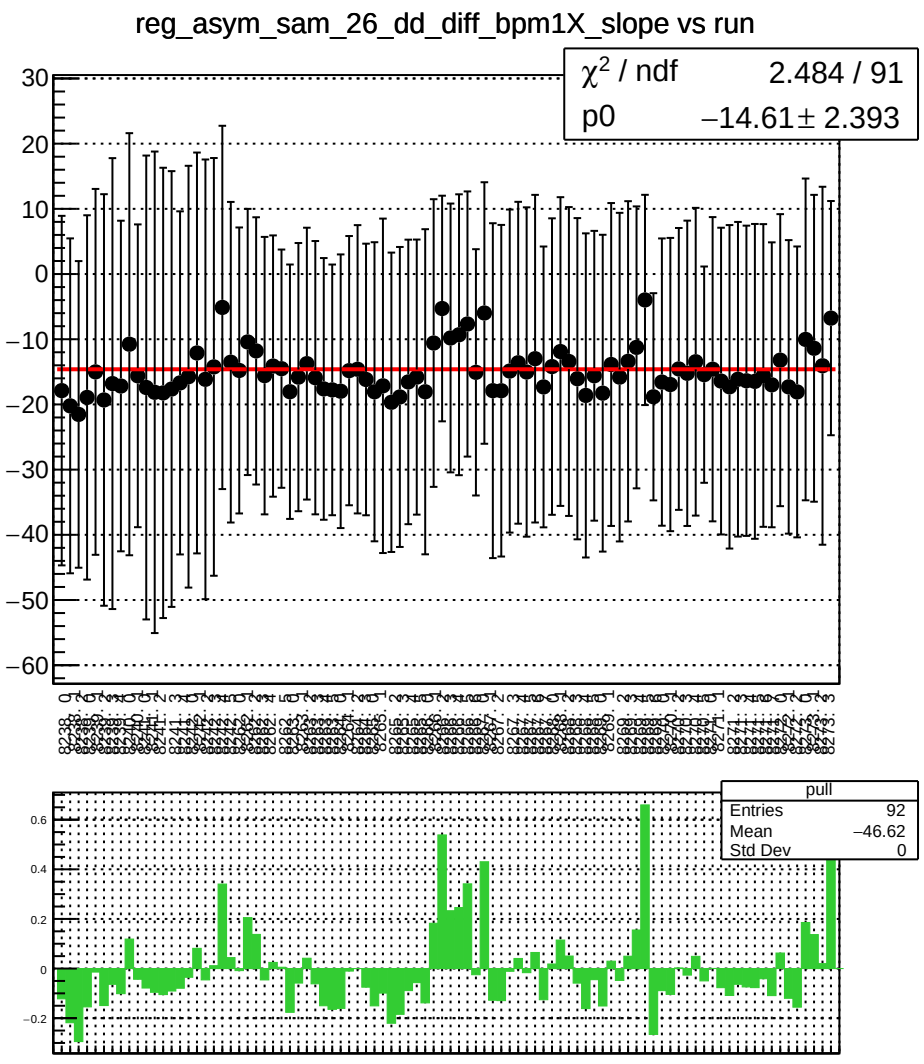

pull1D
Entries 92
Mean 0.002543
Std Dev 0.1972

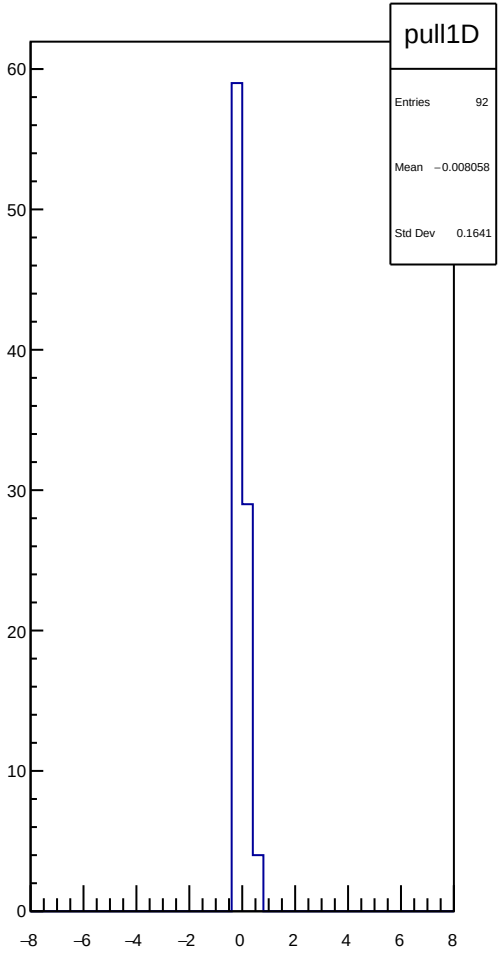

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.919 / 91
p0 −35.28 ± 2.815
pull
Entries 92
Mean 2034
Std Dev 0
pull1D
Entries 92
Mean 0.0007531
Std Dev 0.1444

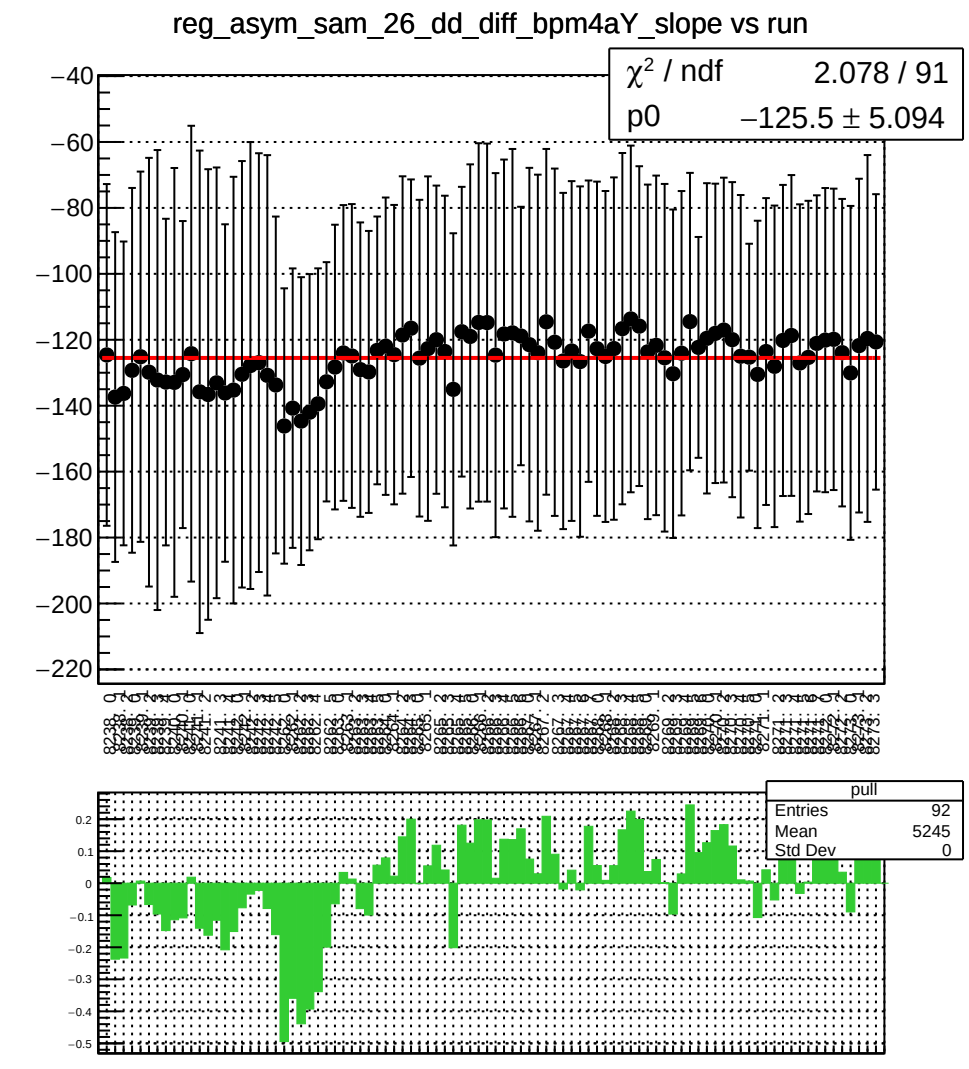

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.152 / 91
p0 −78.21 ± 1.505
pull
Entries 92
Mean 195.7
Std Dev 0
pull1D
Entries 92
Mean 0.002278
Std Dev 0.2124

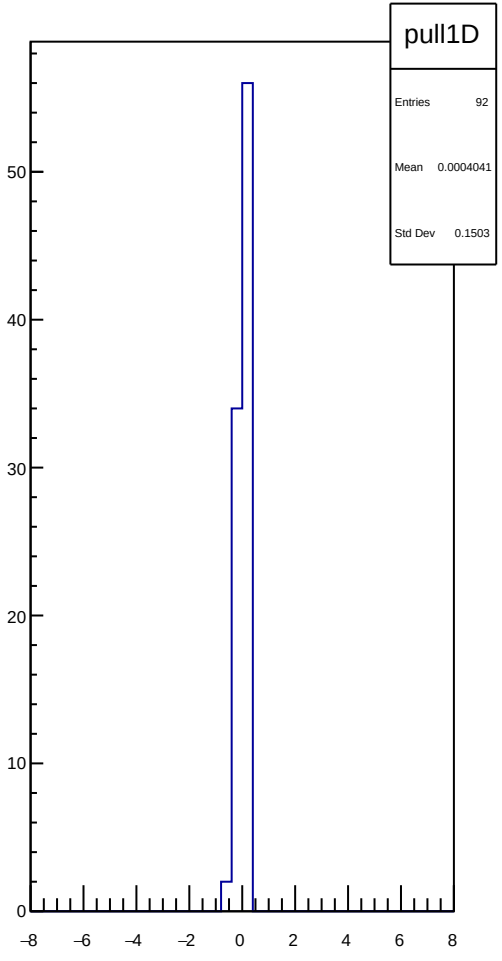

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.074 / 91
p0 −5.939 ± 2.932
pull
Entries 92
Mean −998.1
Std Dev 0
pull1D
Entries 92
Mean 0.001631
Std Dev 0.1501

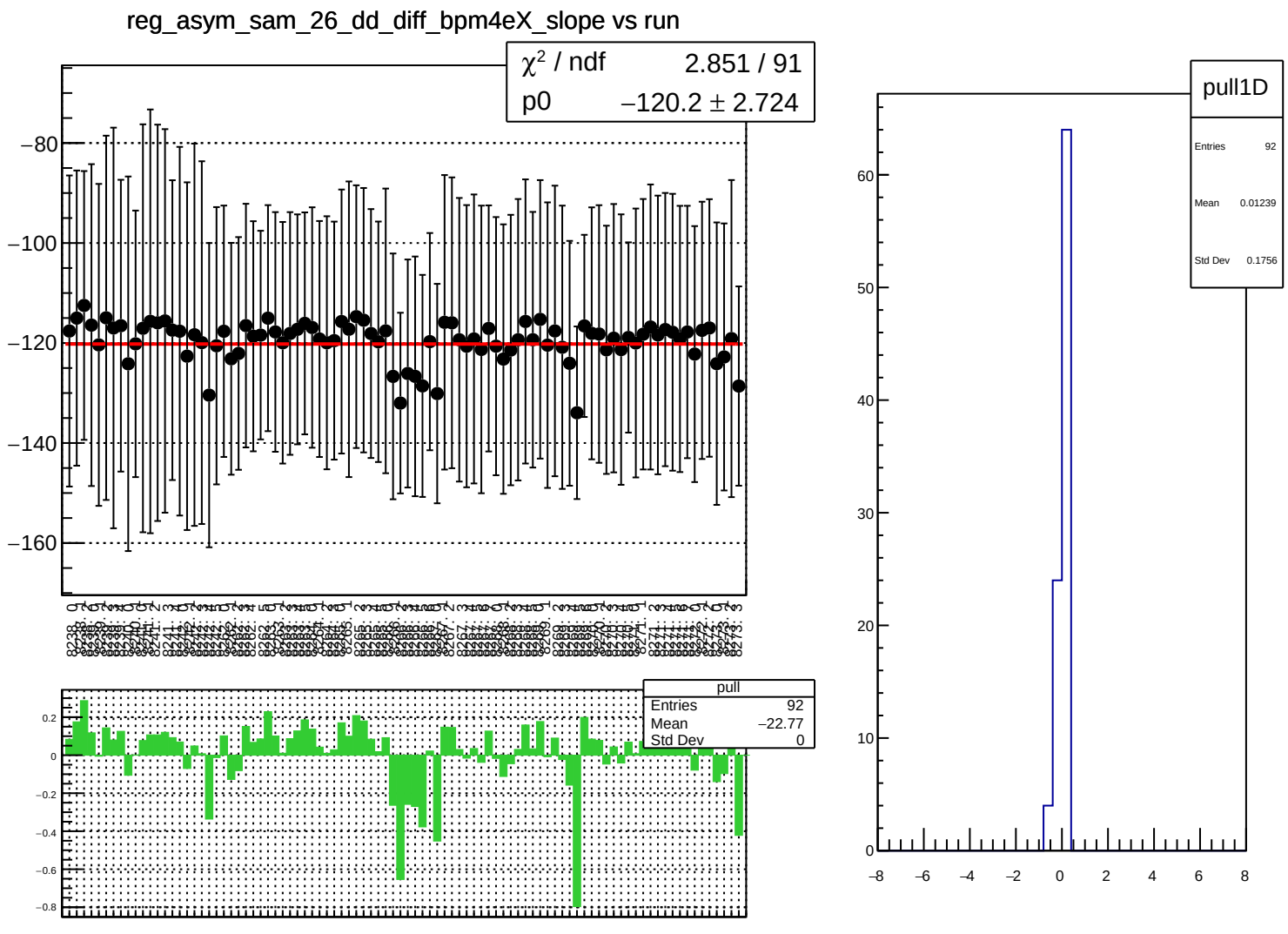

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 3.391 / 91
p0 2.578 ± 0.1587
pull
Entries 92
Mean 162.7
Std Dev 0
pull1D
Entries 92
Mean 0.004764
Std Dev 0.1919

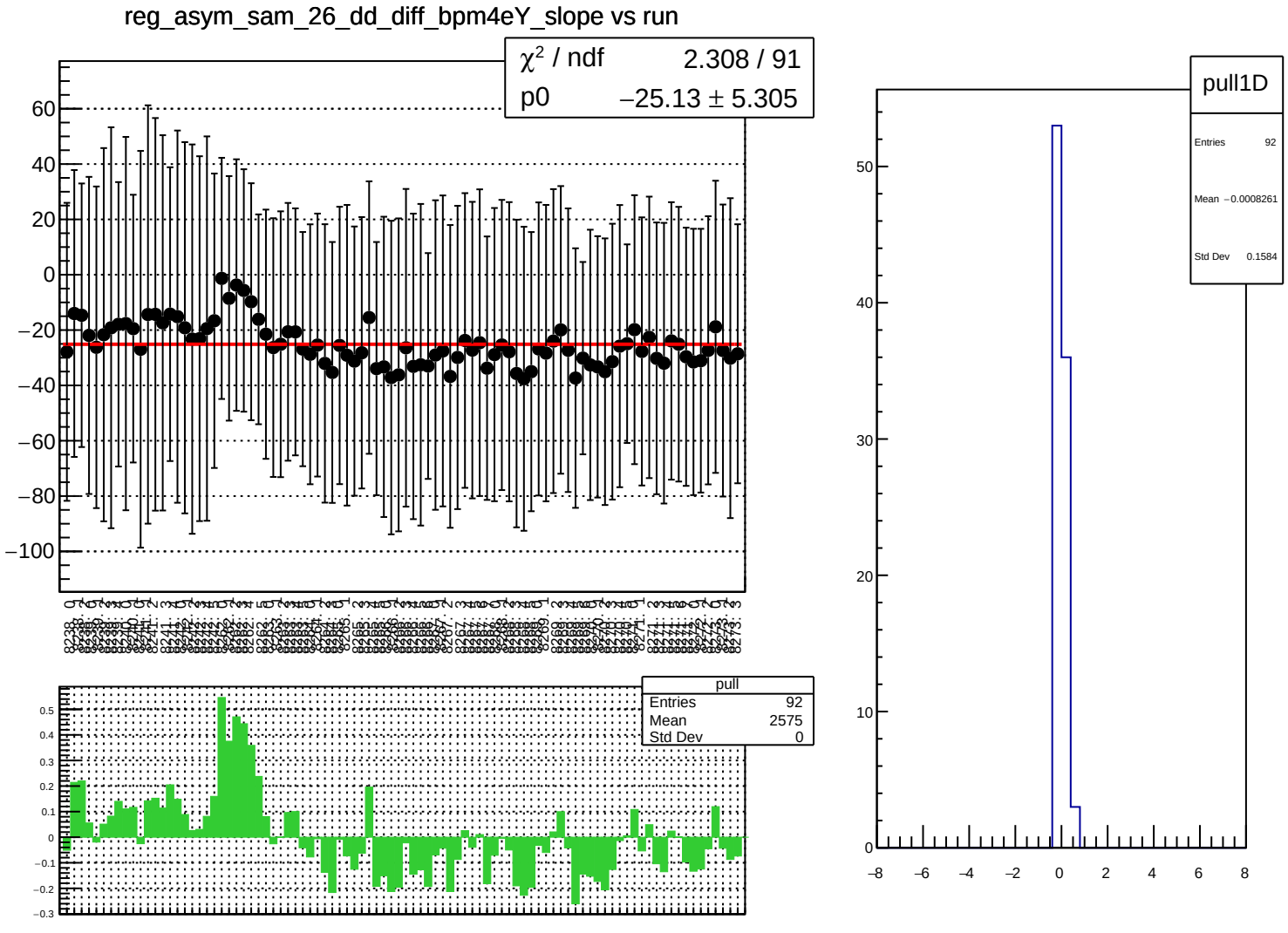

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 2.484 / 91
p0 −14.61± 2.393
pull
Entries 92
Mean −46.62
Std Dev 0

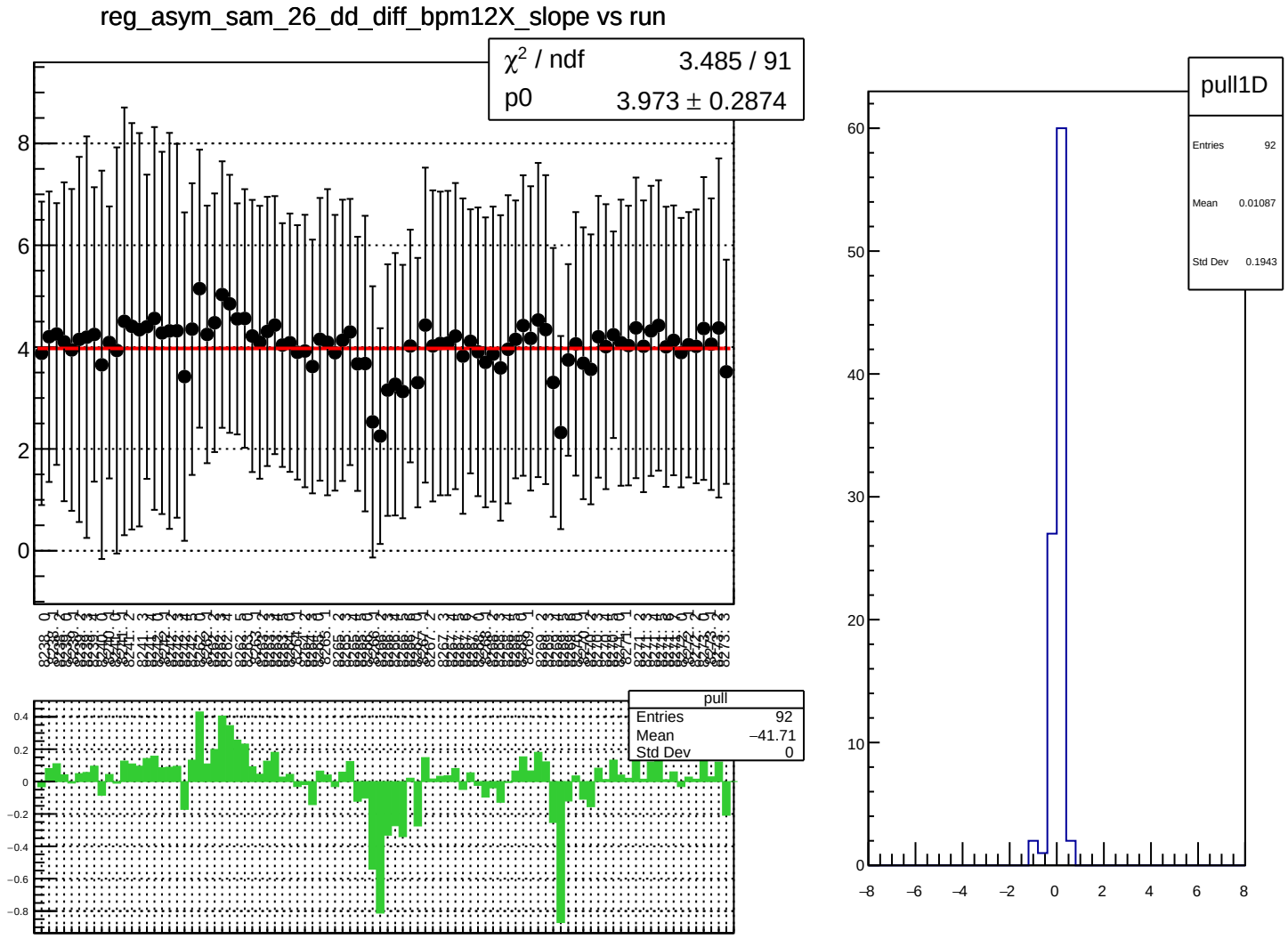

pull1D
Entries 92
Mean −0.008058
Std Dev 0.1641

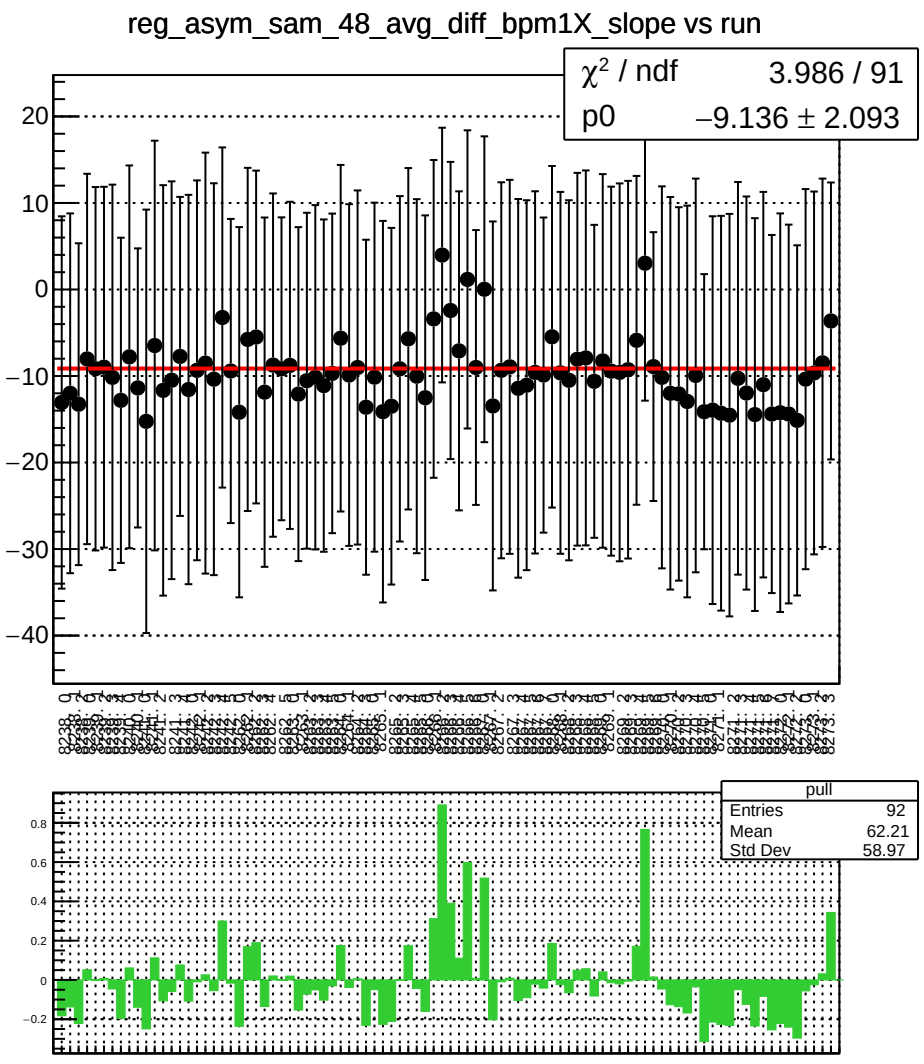

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.078 / 91
p0 −125.5 ± 5.094
pull
Entries 92
Mean 5245
Std Dev 0

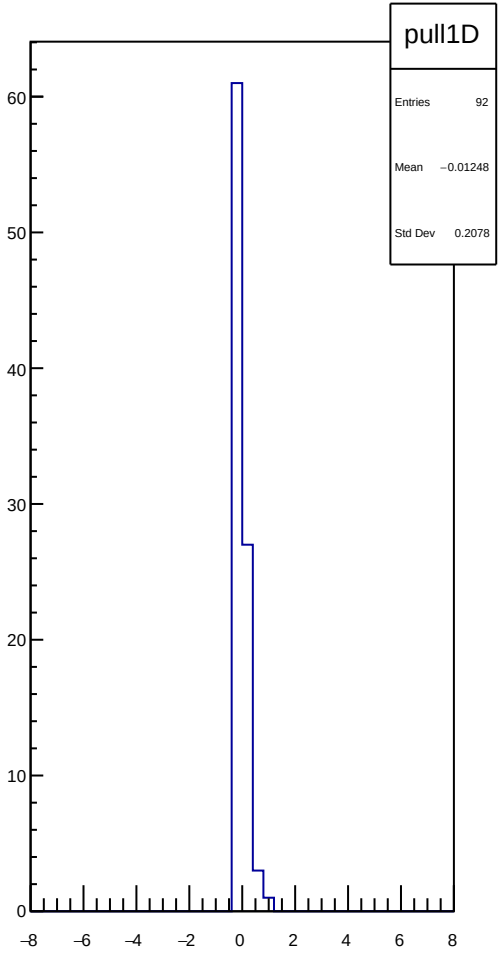

pull1D
Entries 92
Mean 0.0004041
Std Dev 0.1503

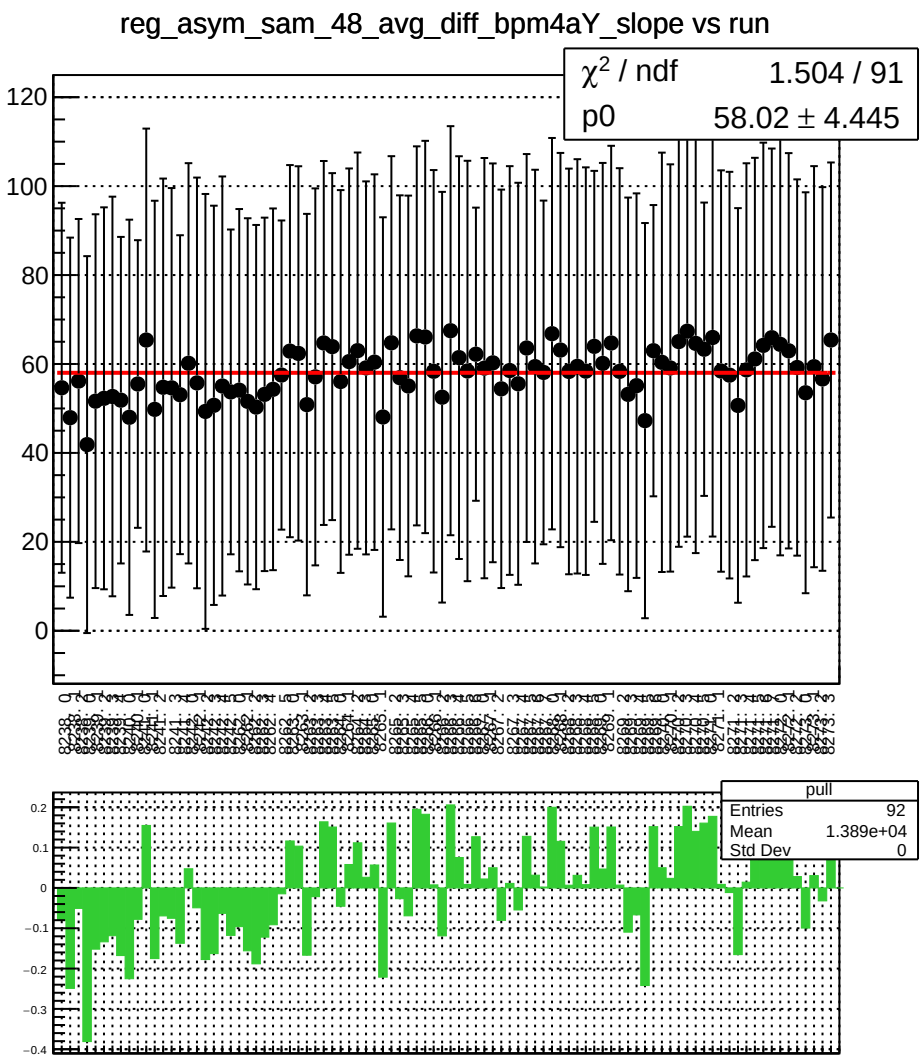

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.851 / 91
p0 −120.2 ± 2.724
−80
−100
−120
−140
−160
pull
Entries 92
Mean −22.77
Std Dev 0
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean 0.01239
Std Dev 0.1756
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

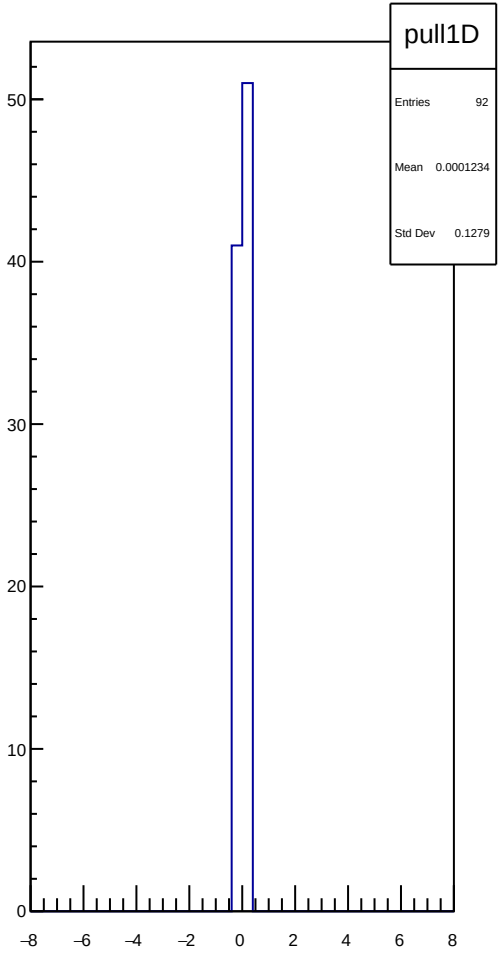

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.308 / 91
p0 −25.13 ± 5.305
pull
Entries 92
Mean 2575
Std Dev 0
pull1D
Entries 92
Mean −0.0008261
Std Dev 0.1584

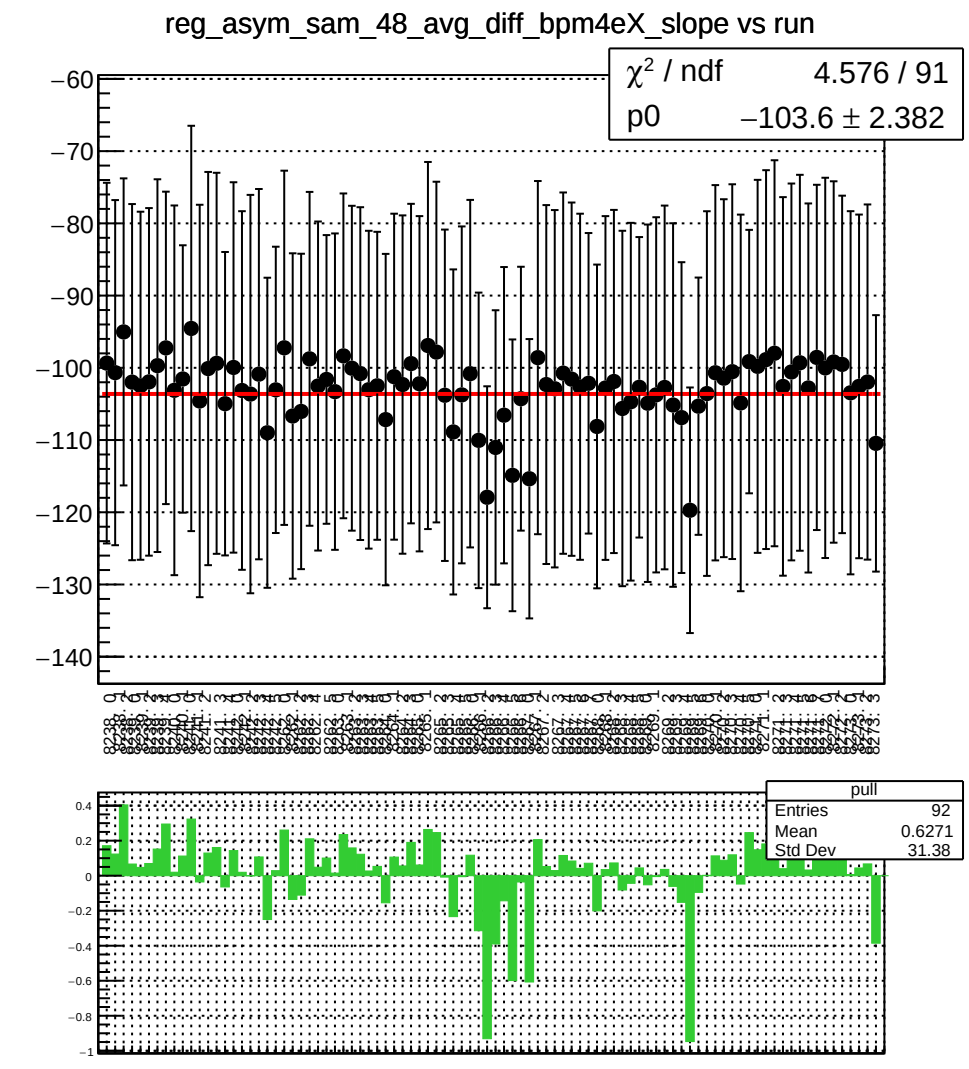

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 3.485 / 91
p0 3.973 ± 0.2874
pull
Entries 92
Mean −41.71
Std Dev 0
pull1D
Entries 92
Mean 0.01087
Std Dev 0.1943

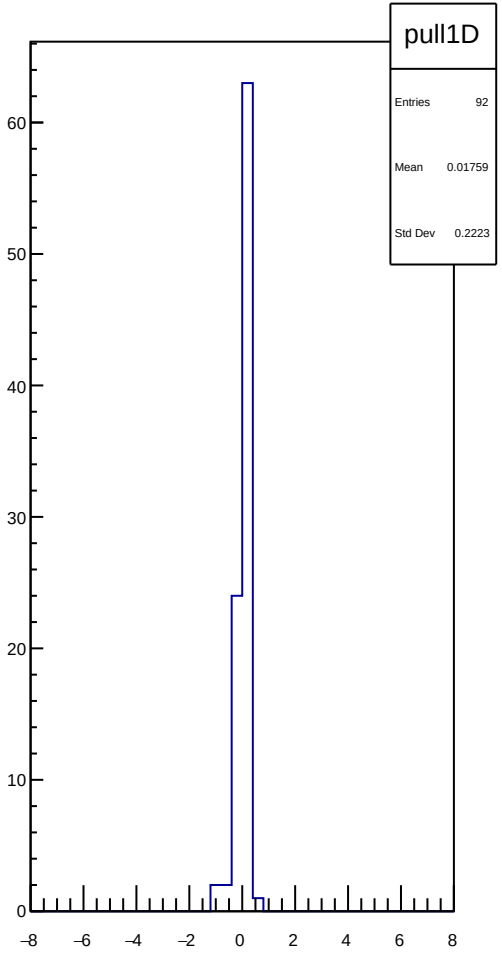

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 3.986 / 91
p0 −9.136 ± 2.093
pull
Entries 92
Mean 62.21
Std Dev 58.97

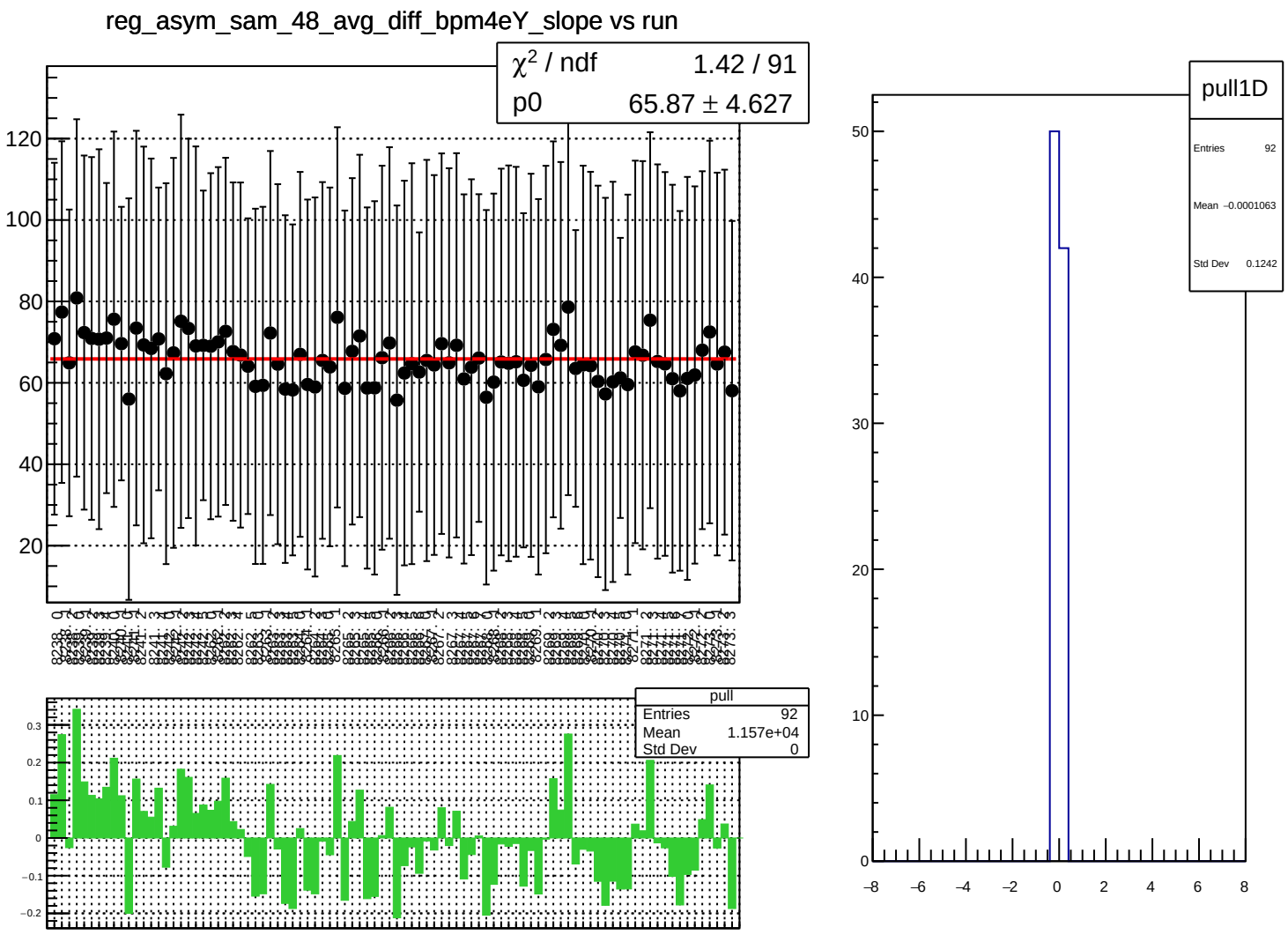

pull1D
Entries 92
Mean −0.01248
Std Dev 0.2078

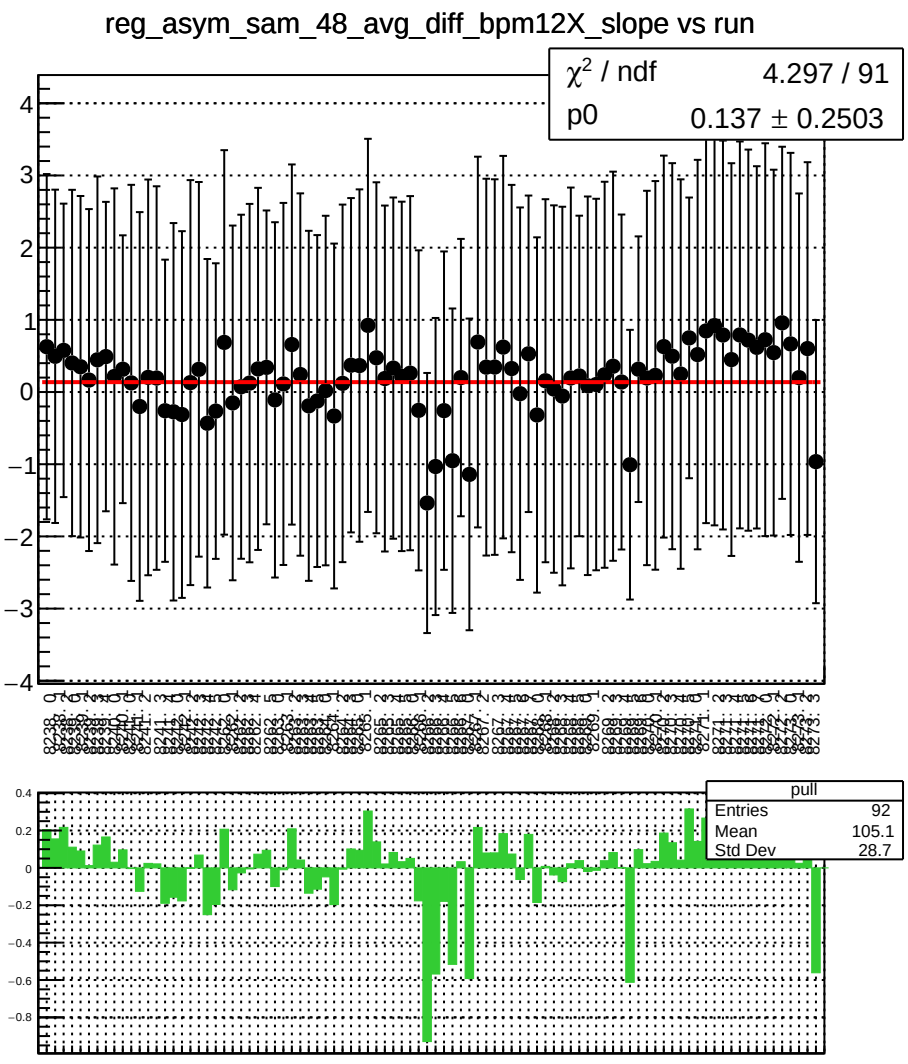

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.504 / 91
p0 58.02 ± 4.445
pull
Entries 92
Mean 1.389e+04
Std Dev 0

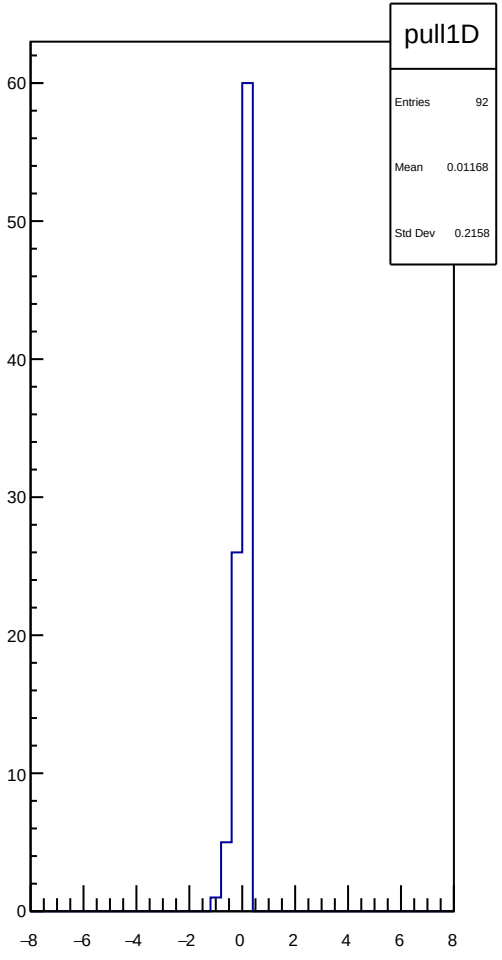

pull1D
Entries 92
Mean 0.0001234
Std Dev 0.1279

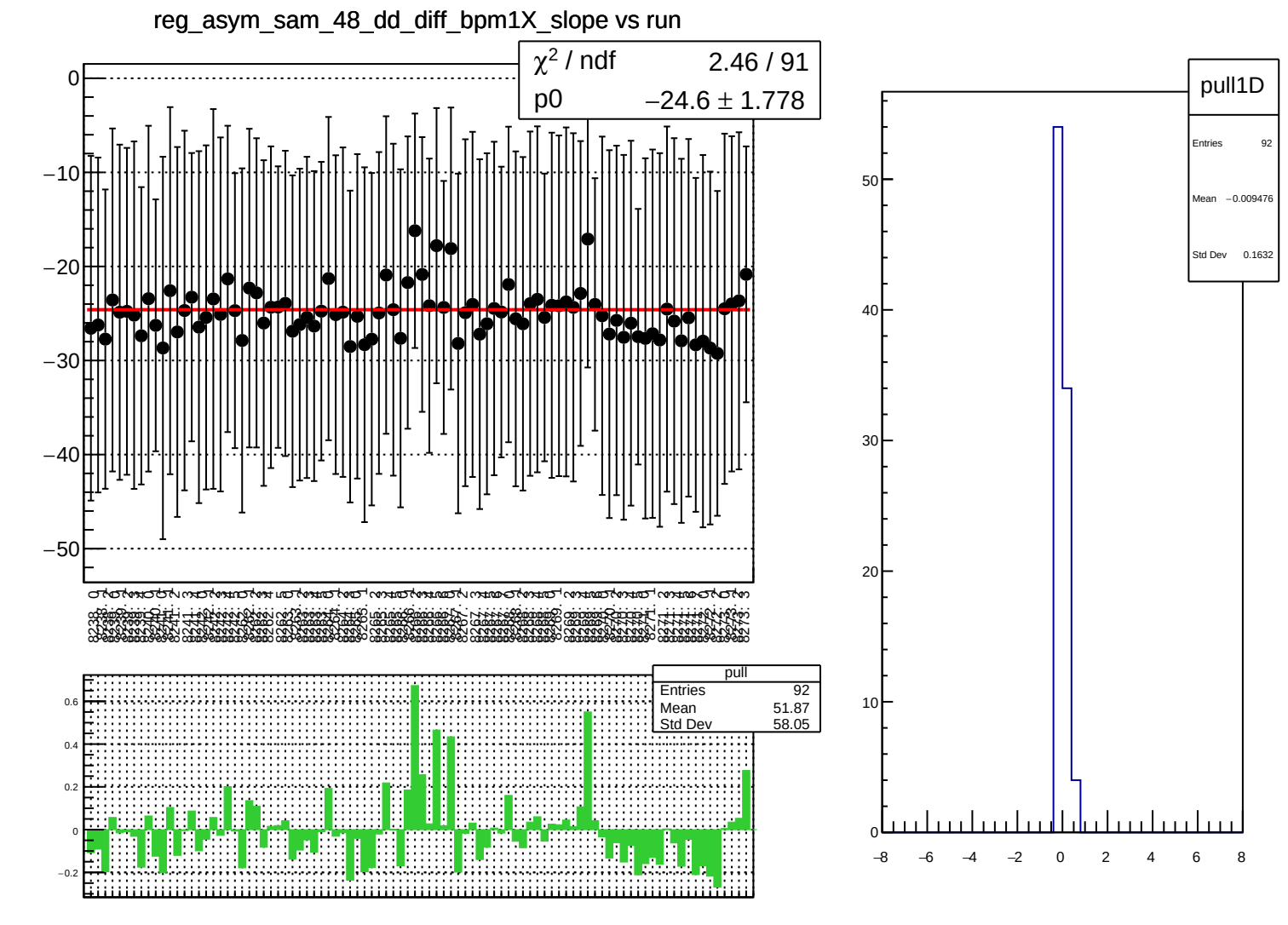

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.576 / 91
p0 −103.6 ± 2.382
pull
Entries 92
Mean 0.6271
Std Dev 31.38

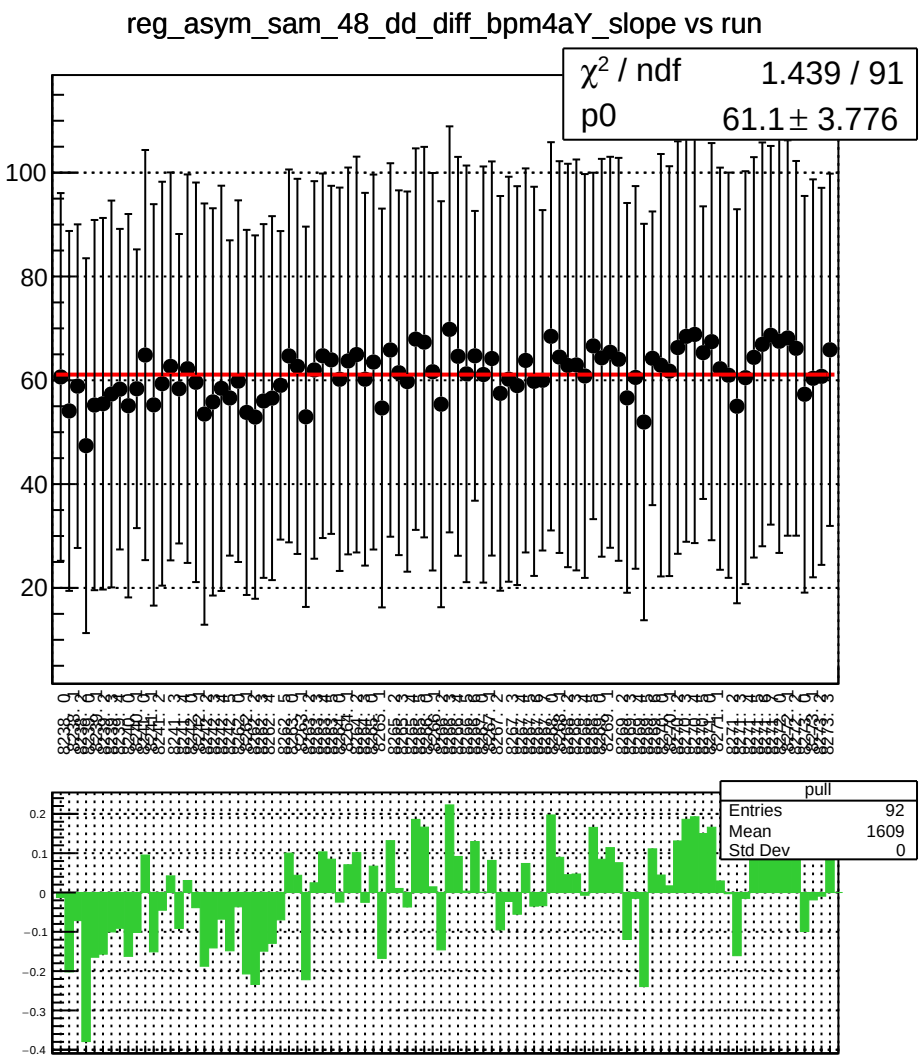

pull1D
Entries 92
Mean 0.01759
Std Dev 0.2223

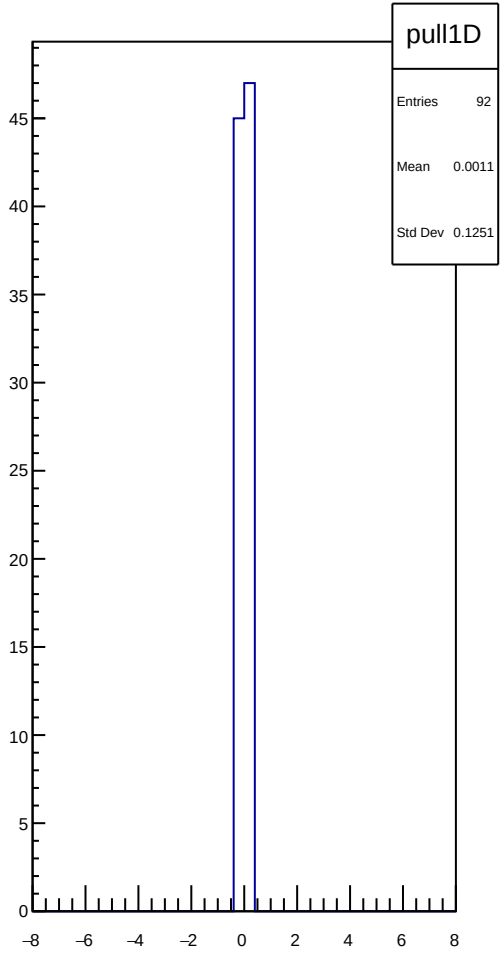

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.42 / 91
p0 65.87 ± 4.627
120
100
80
60
40
20
pull
Entries 92
Mean 1.157e+04
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 92
Mean −0.0001063
Std Dev 0.1242
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

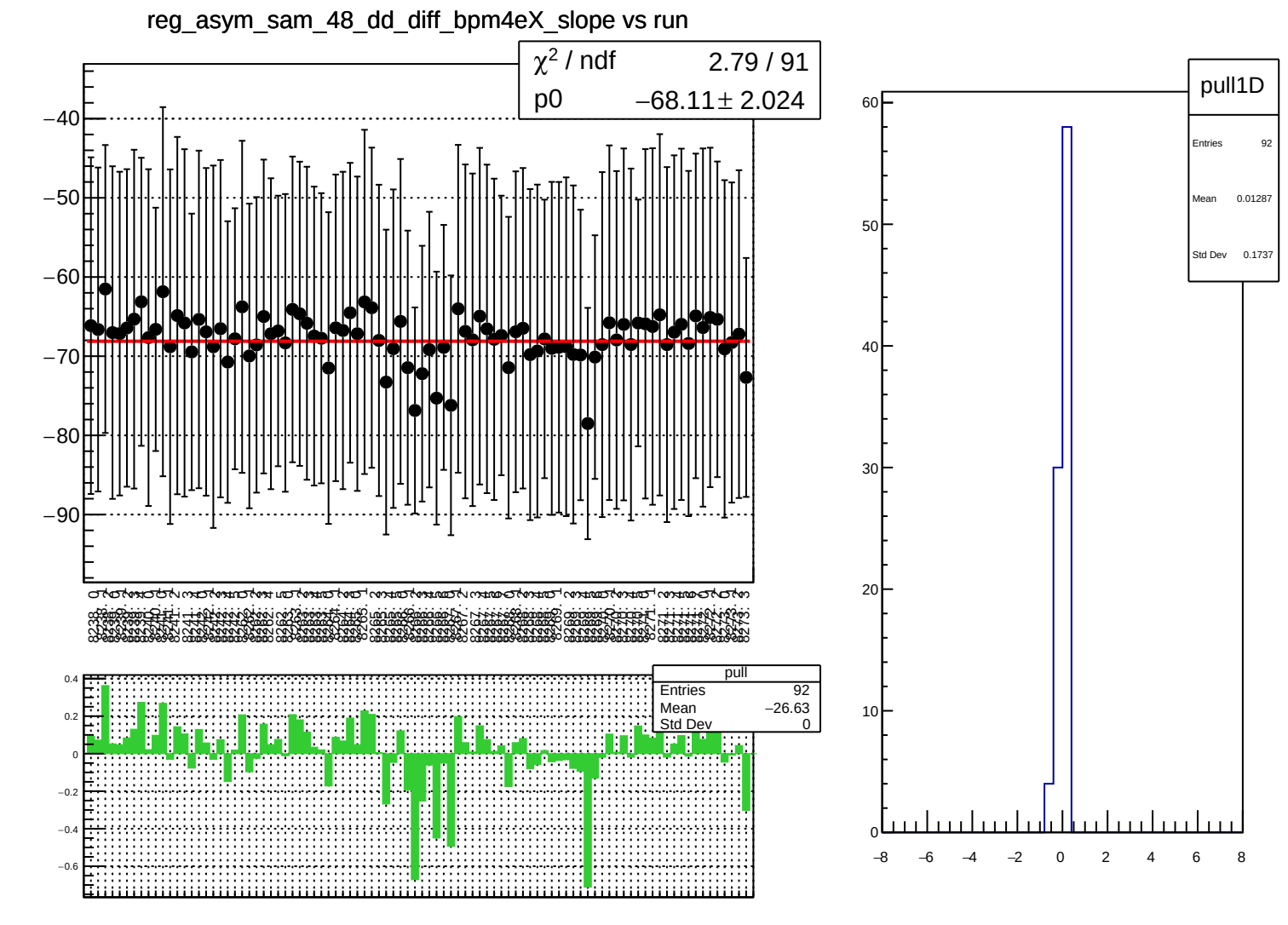

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 4.297 / 91
p0 0.137 ± 0.2503
pull
Entries 92
Mean 105.1
Std Dev 28.7

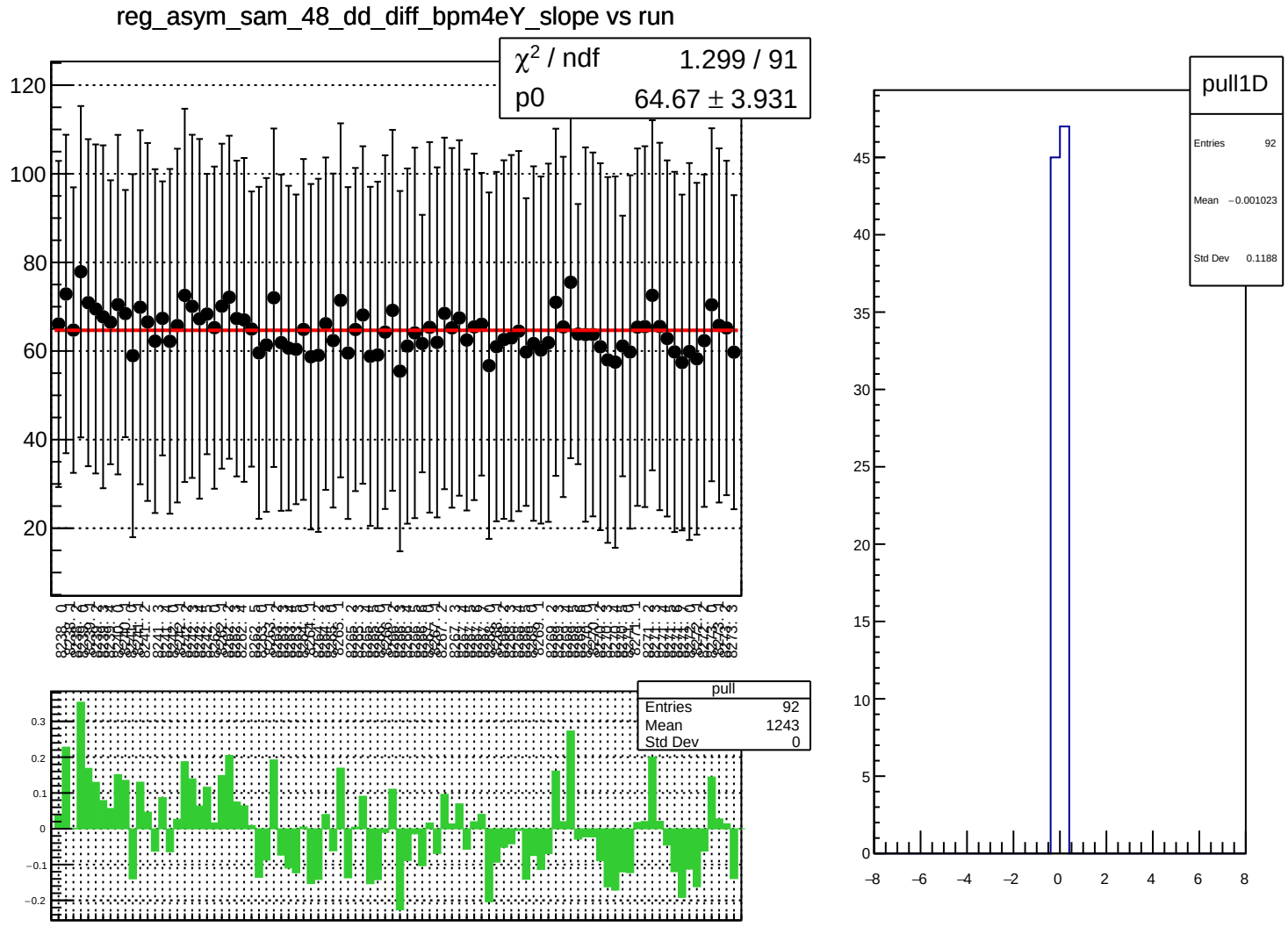

pull1D
Entries 92
Mean 0.01168
Std Dev 0.2158

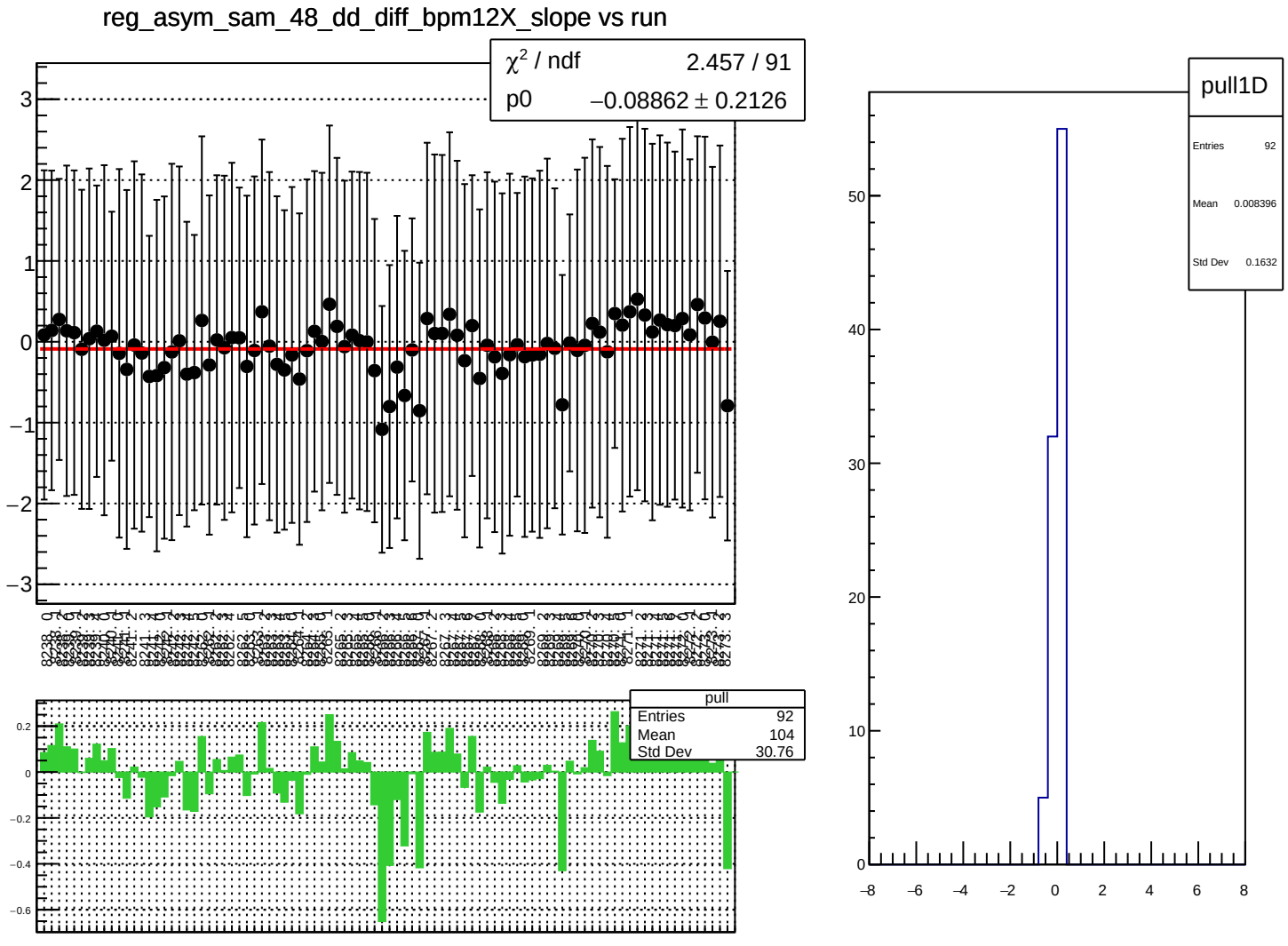

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.46 / 91
p0 −24.6 ± 1.778
pull
Entries 92
Mean 51.87
Std Dev 58.05
pull1D
Entries 92
Mean −0.009476
Std Dev 0.1632

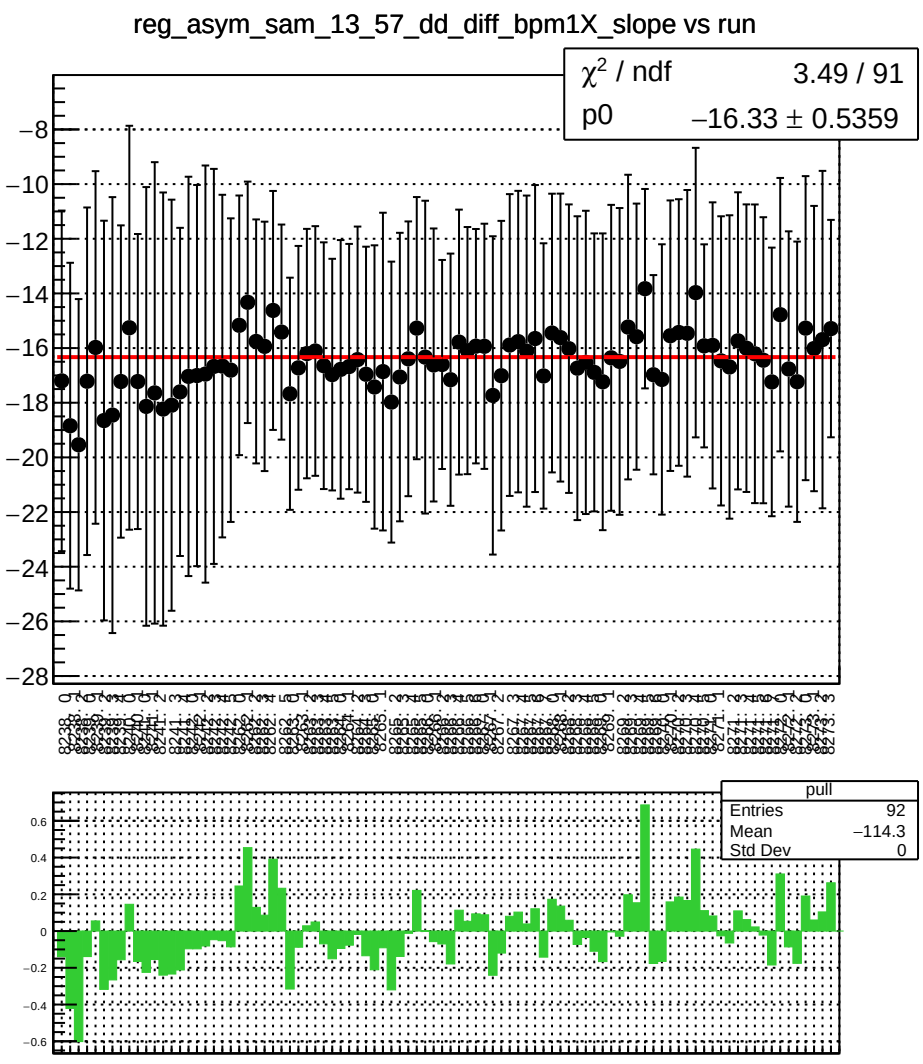

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.439 / 91
p0 61.1 ± 3.776
pull
Entries 92
Mean 1609
Std Dev 0

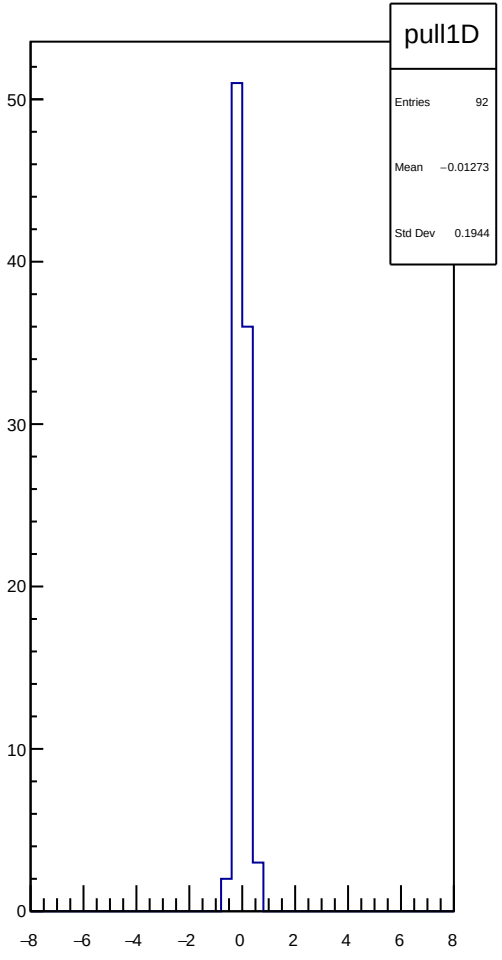

pull1D
Entries 92
Mean 0.0011
Std Dev 0.1251

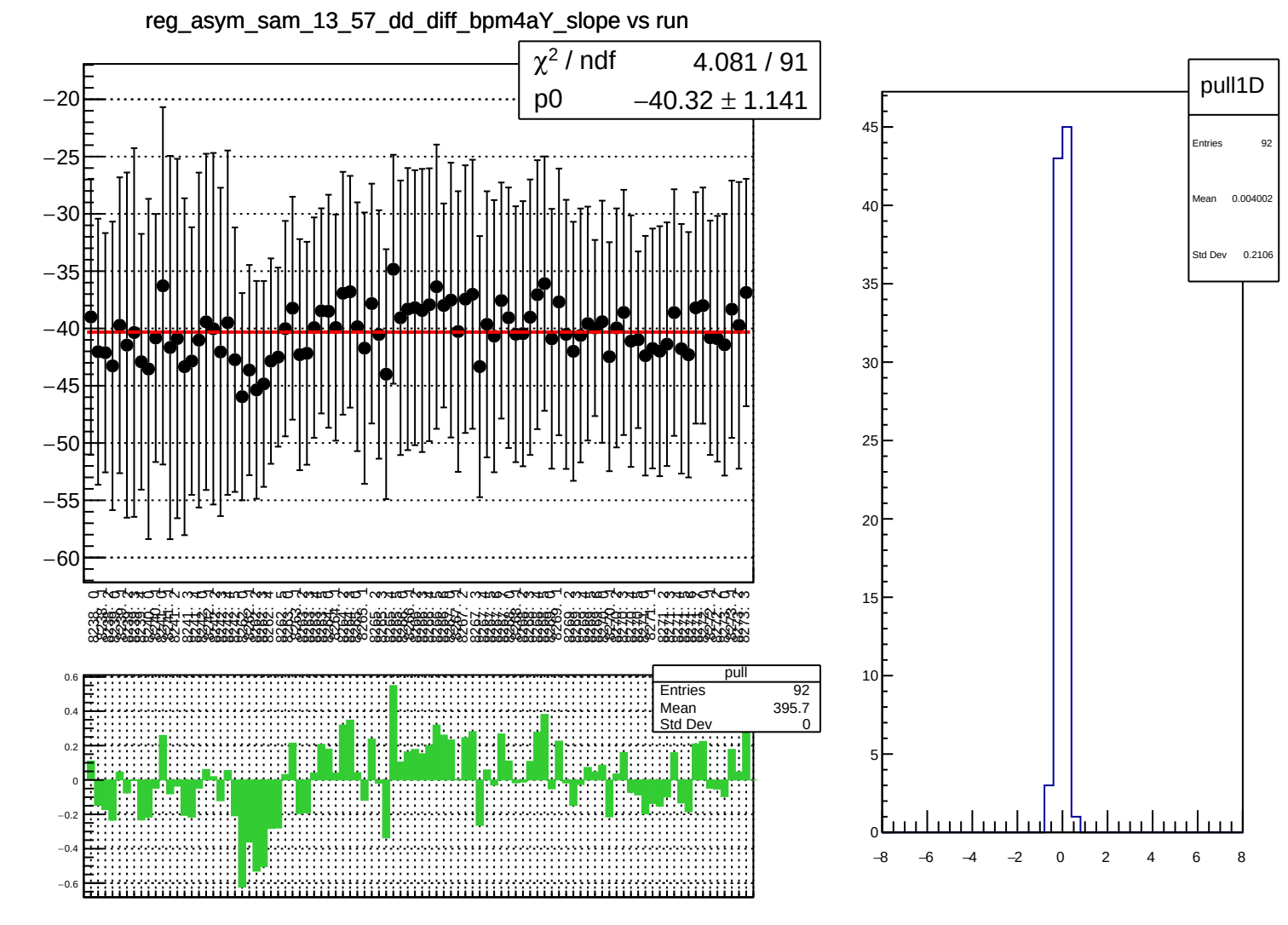

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.79 / 91
p0 −68.11± 2.024
pull
Entries 92
Mean −26.63
Std Dev 0
pull1D
Entries 92
Mean 0.01287
Std Dev 0.1737

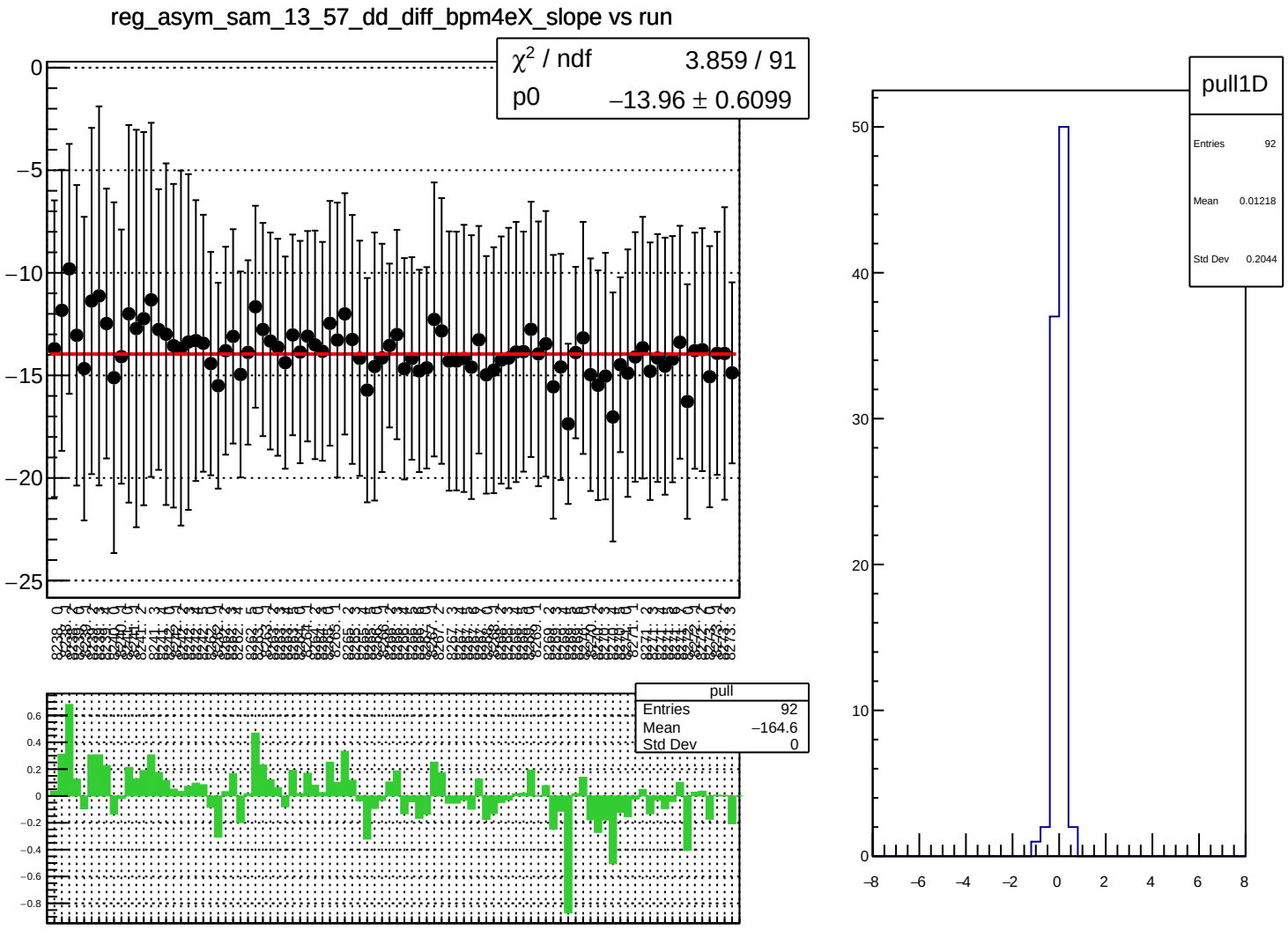

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.299 / 91
p0 64.67 ± 3.931
120
100
80
60
40
20
pull
Entries 92
Mean 1243
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 92
Mean −0.001023
Std Dev 0.1188
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

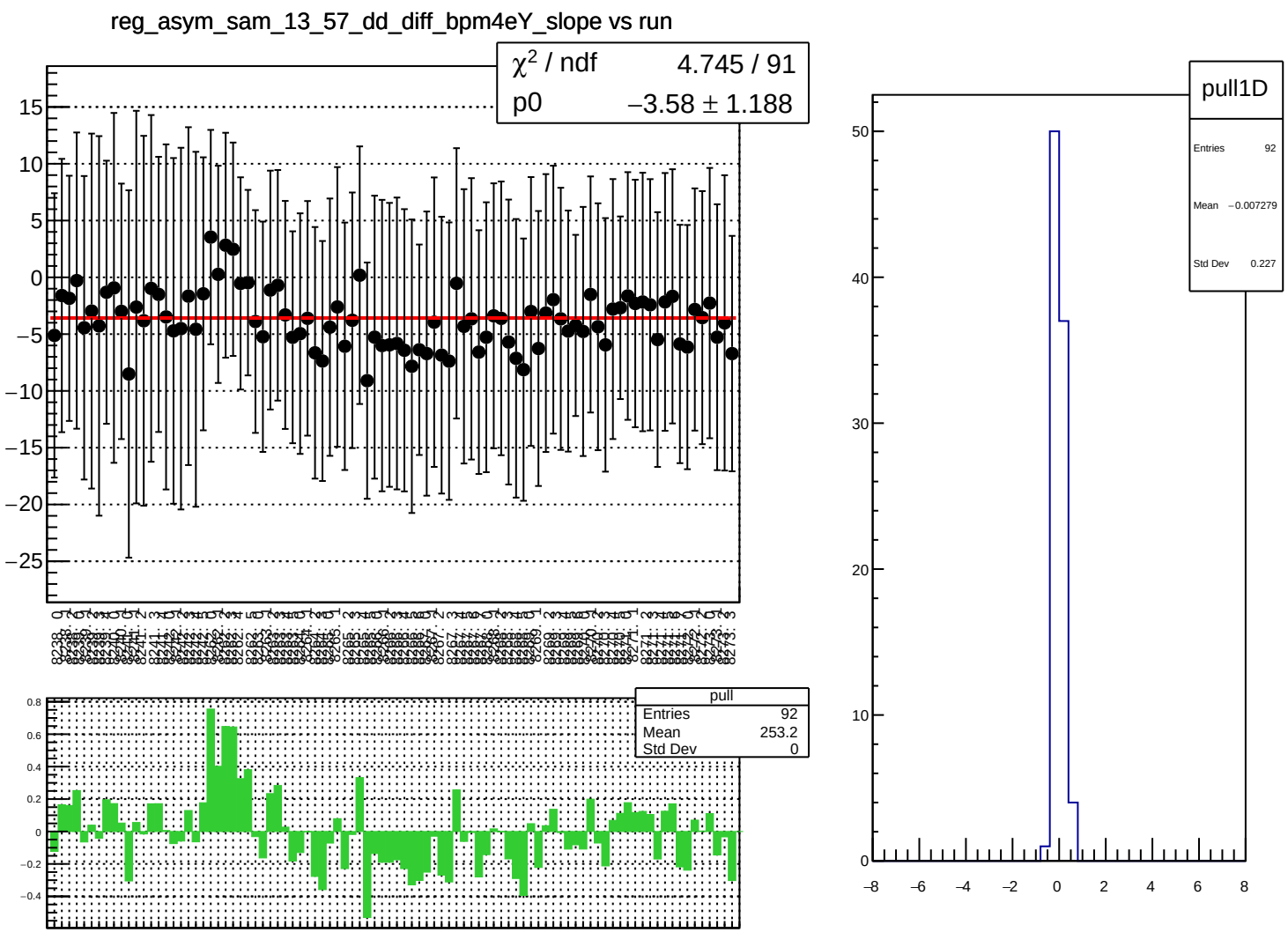

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 2.457 / 91
p0 −0.08862 ± 0.2126
pull
Entries 92
Mean 104
Std Dev 30.76
pull1D
Entries 92
Mean 0.008396
Std Dev 0.1632

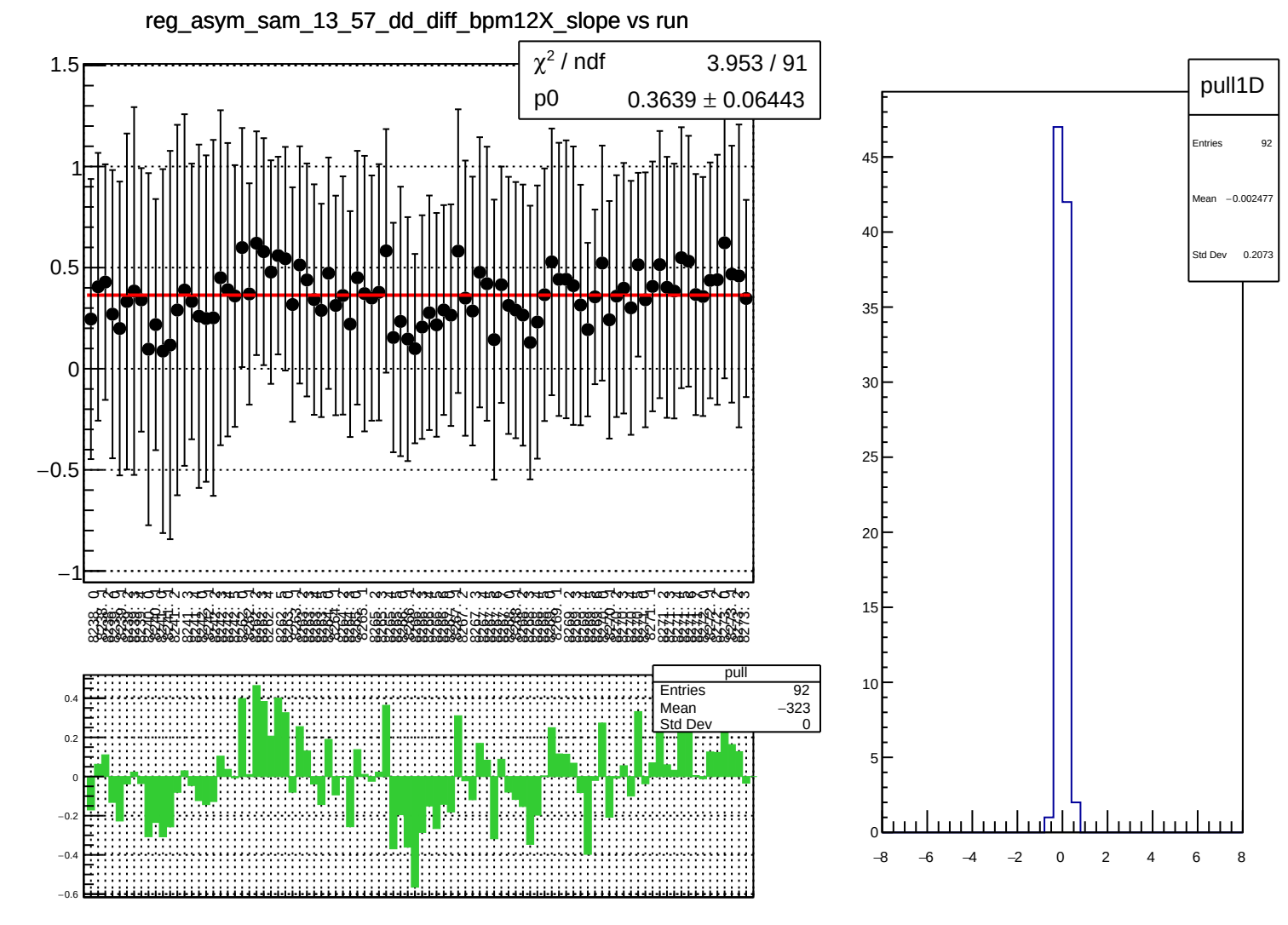

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 3.49 / 91
p0 −16.33 ± 0.5359
pull
Entries 92
Mean −114.3
Std Dev 0

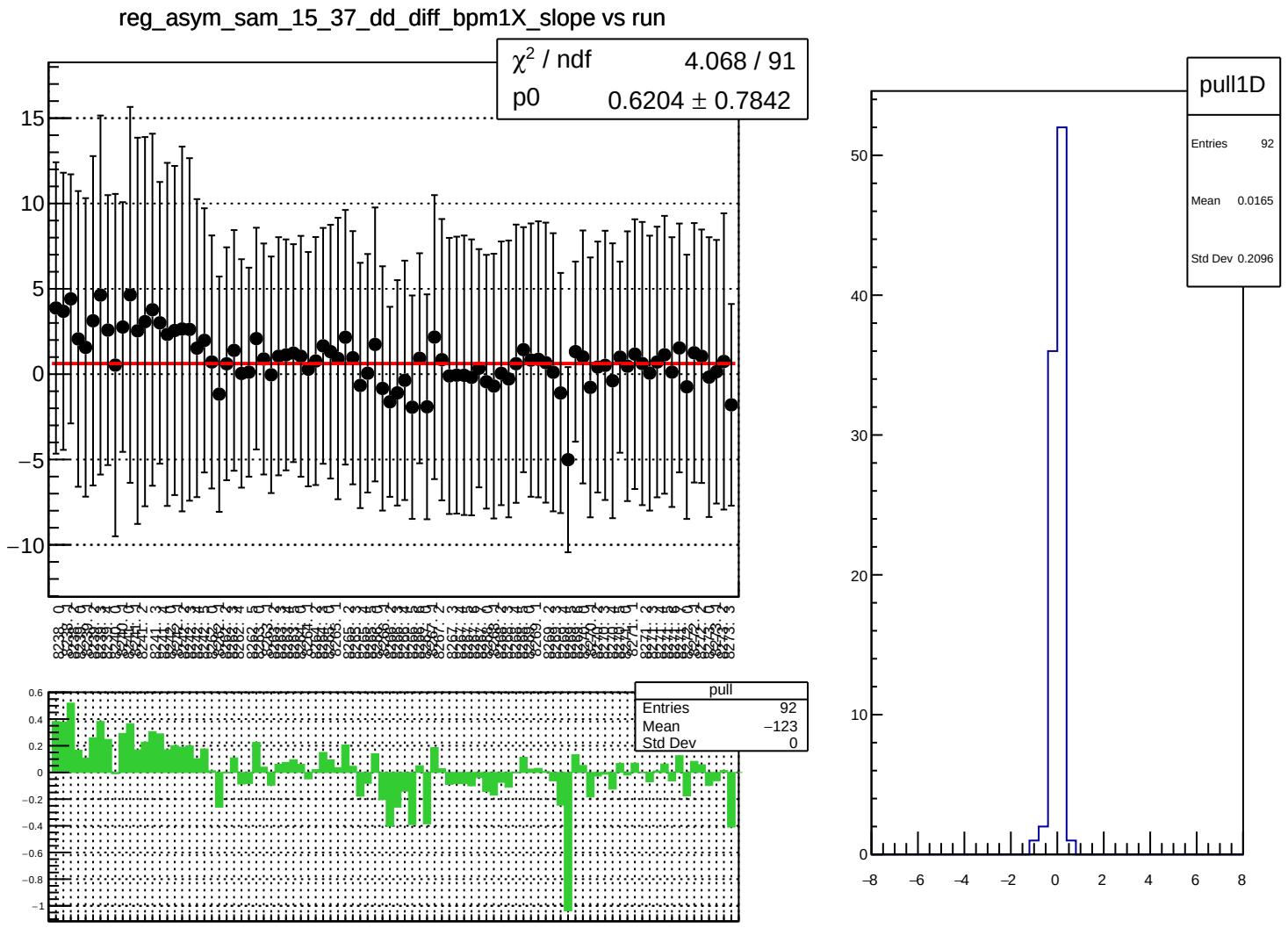

pull1D
Entries 92
Mean −0.01273
Std Dev 0.1944

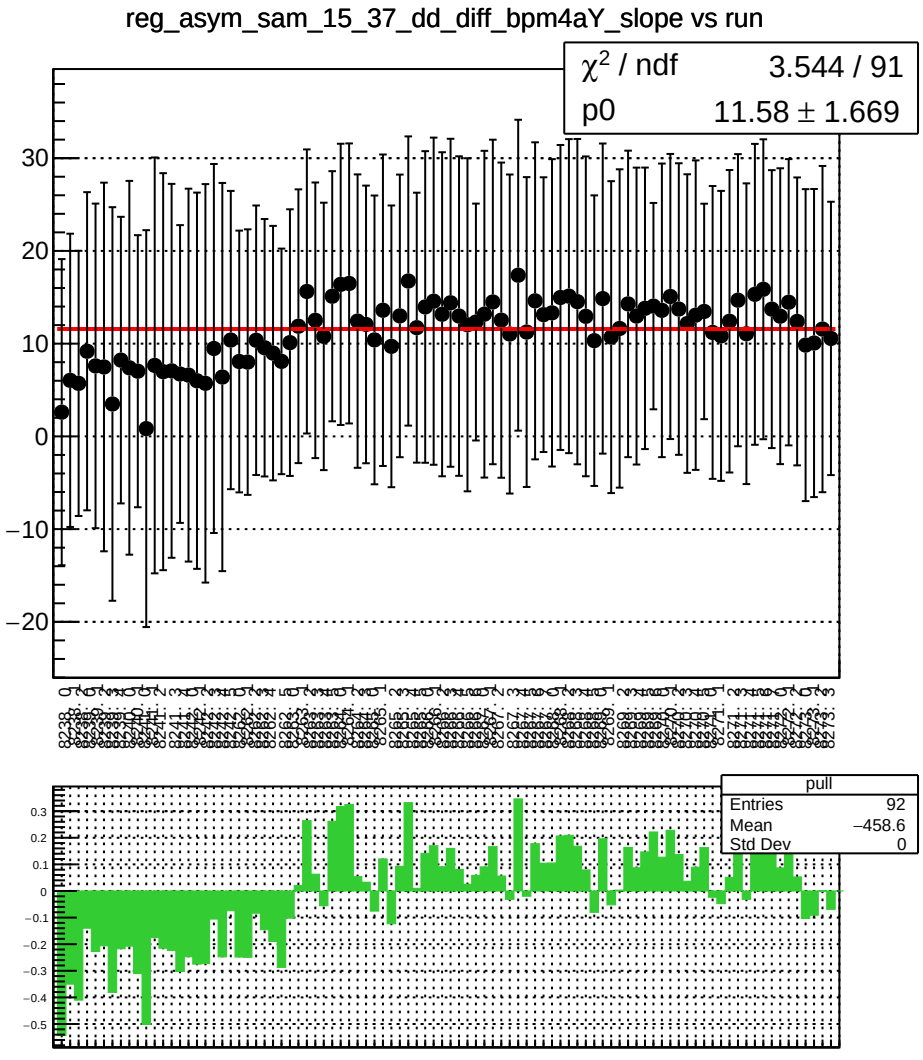

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.081 / 91
p0 −40.32 ± 1.141
pull
Entries 92
Mean 395.7
Std Dev 0
pull1D
Entries 92
Mean 0.004002
Std Dev 0.2106

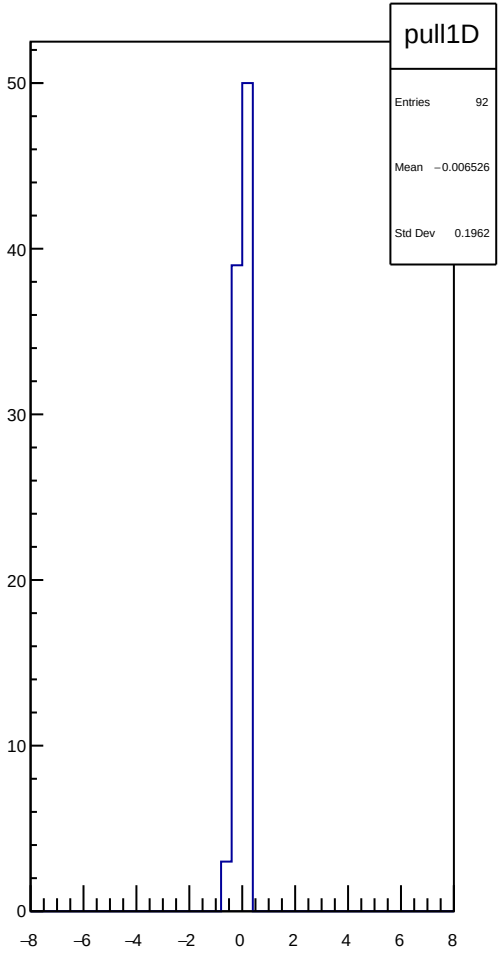

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.859 / 91
p0 −13.96 ± 0.6099
pull
Entries 92
Mean −164.6
Std Dev 0
pull1D
Entries 92
Mean 0.01218
Std Dev 0.2044

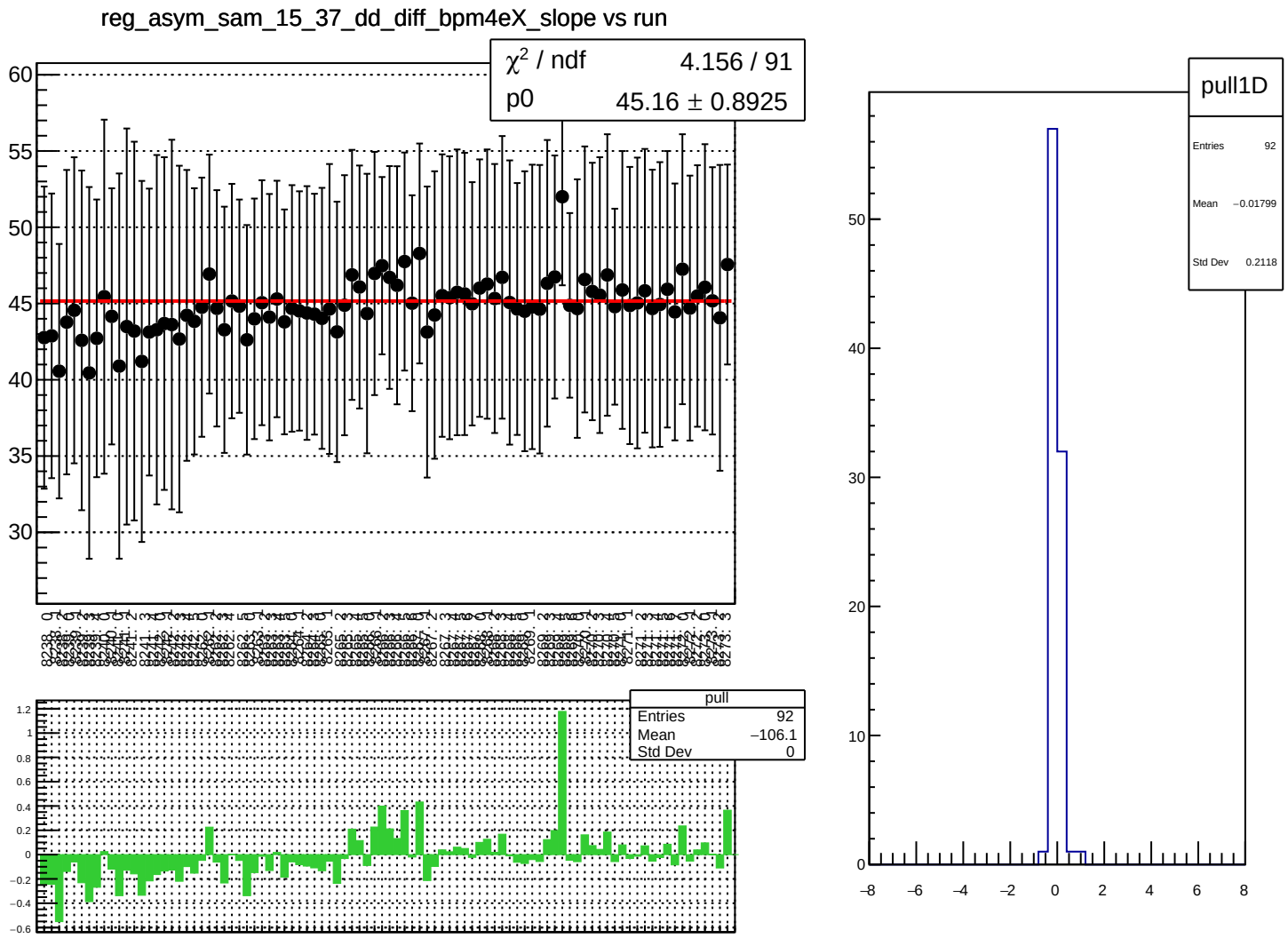

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.745 / 91
p0 −3.58 ± 1.188
pull
Entries 92
Mean 253.2
Std Dev 0
pull1D
Entries 92
Mean −0.007279
Std Dev 0.227

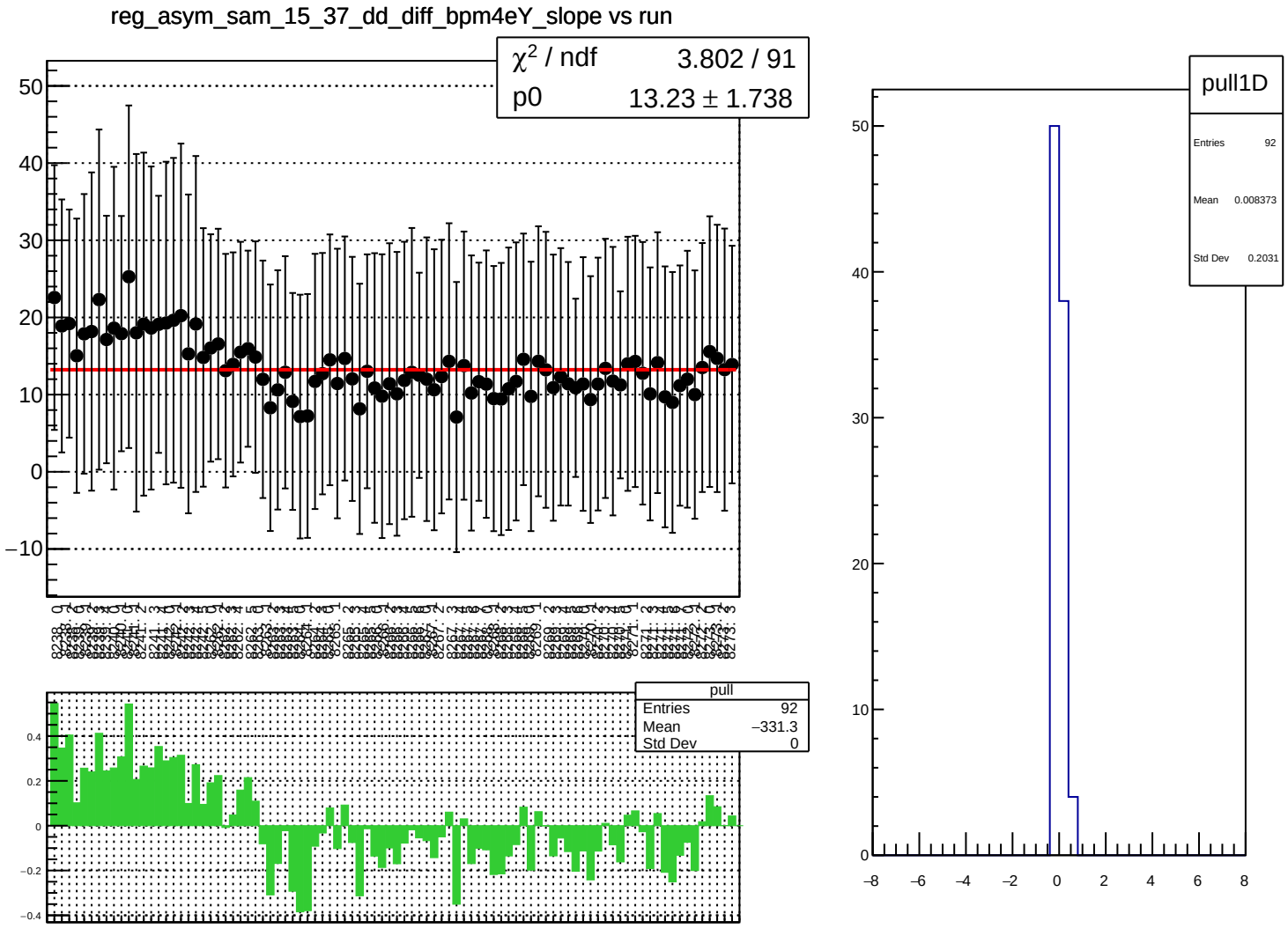

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 3.953 / 91
p0 0.3639 ± 0.06443
pull
Entries 92
Mean −323
Std Dev 0
pull1D
Entries 92
Mean −0.002477
Std Dev 0.2073

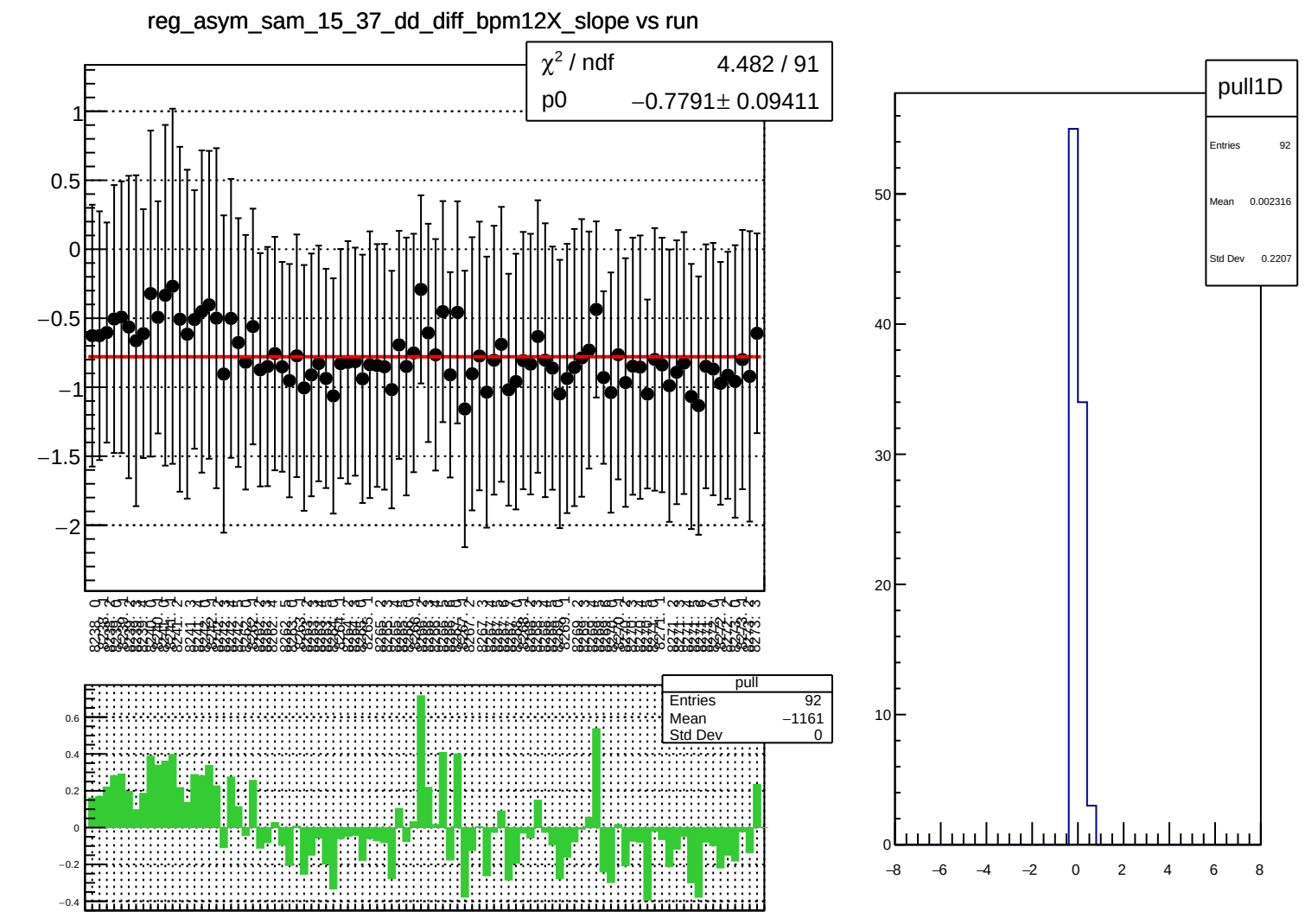

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 4.068 / 91
p0 0.6204 ± 0.7842
pull
Entries 92
Mean −123
Std Dev 0
pull1D
Entries 92
Mean 0.0165
Std Dev 0.2096

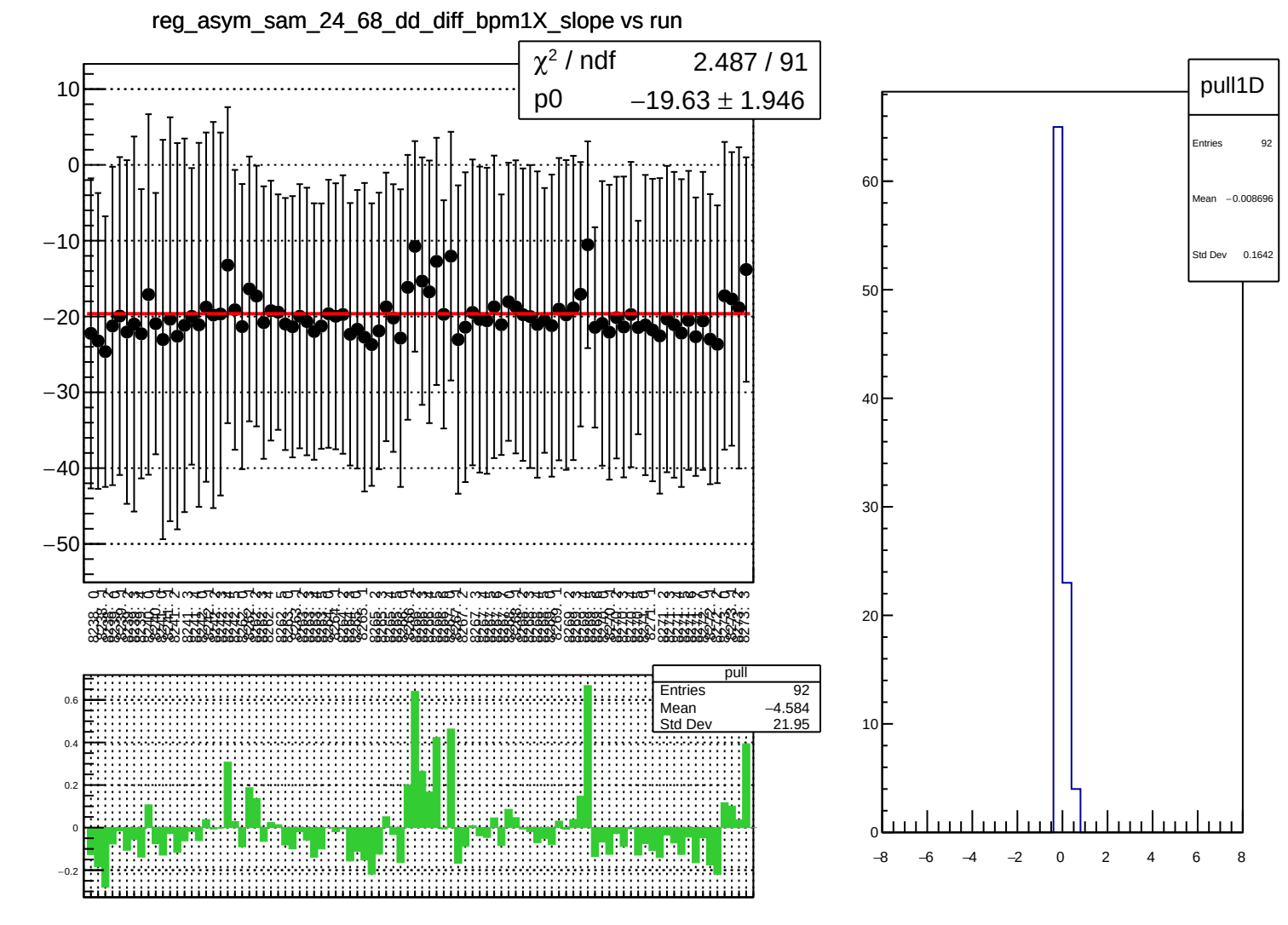

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.544 / 91
p0 11.58 ± 1.669
pull
Entries 92
Mean −458.6
Std Dev 0

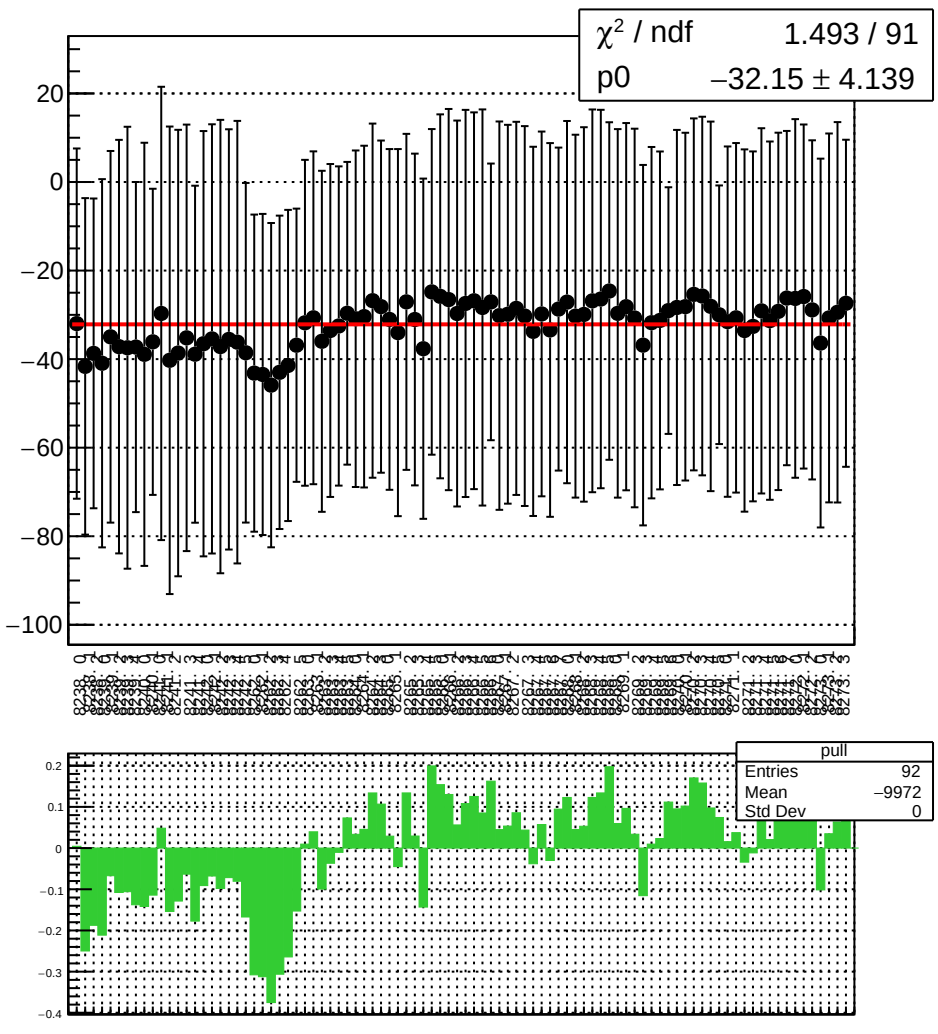

pull1D
Entries 92
Mean −0.006526
Std Dev 0.1962

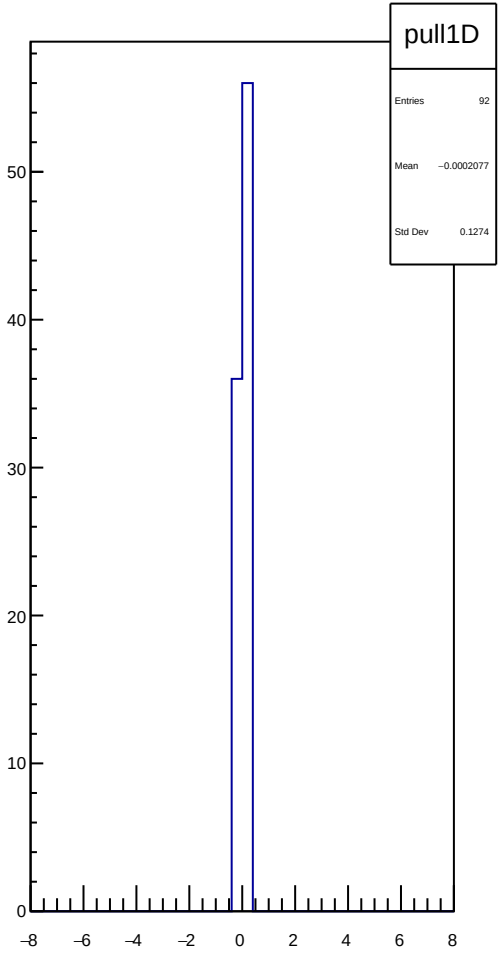

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.156 / 91
p0 45.16 ± 0.8925
pull
Entries 92
Mean −106.1
Std Dev 0
pull1D
Entries 92
Mean −0.01799
Std Dev 0.2118

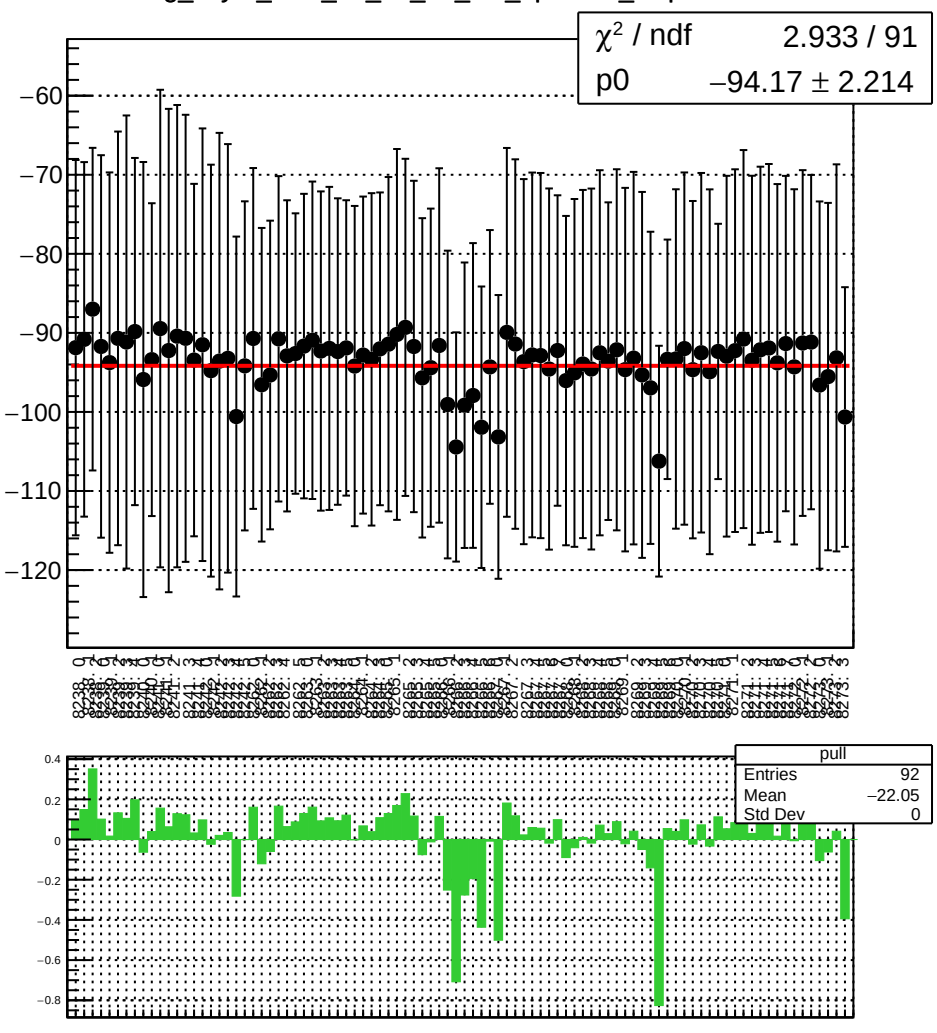

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.802 / 91
p0 13.23 ± 1.738
pull
Entries 92
Mean −331.3
Std Dev 0
pull1D
Entries 92
Mean 0.008373
Std Dev 0.2031

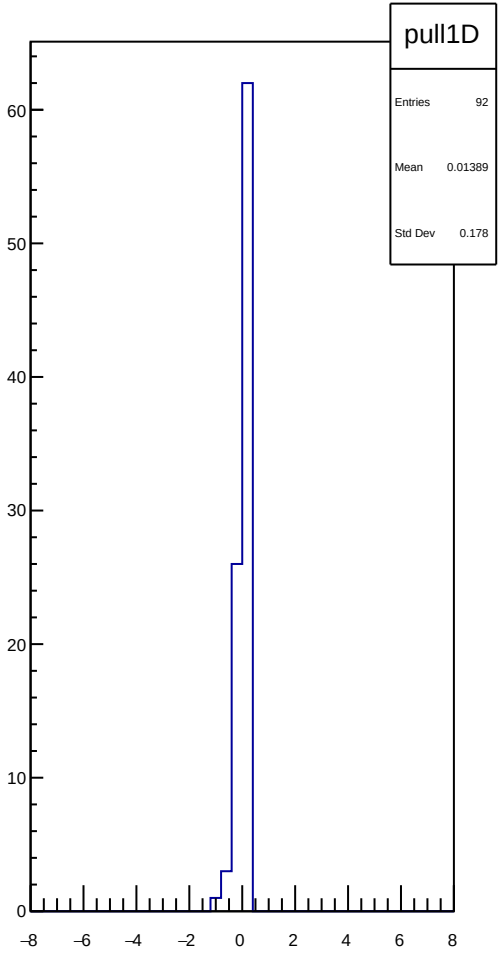

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 4.482 / 91
p0 −0.7791± 0.09411
pull
Entries 92
Mean −1161
Std Dev 0
pull1D
Entries 92
Mean 0.002316
Std Dev 0.2207

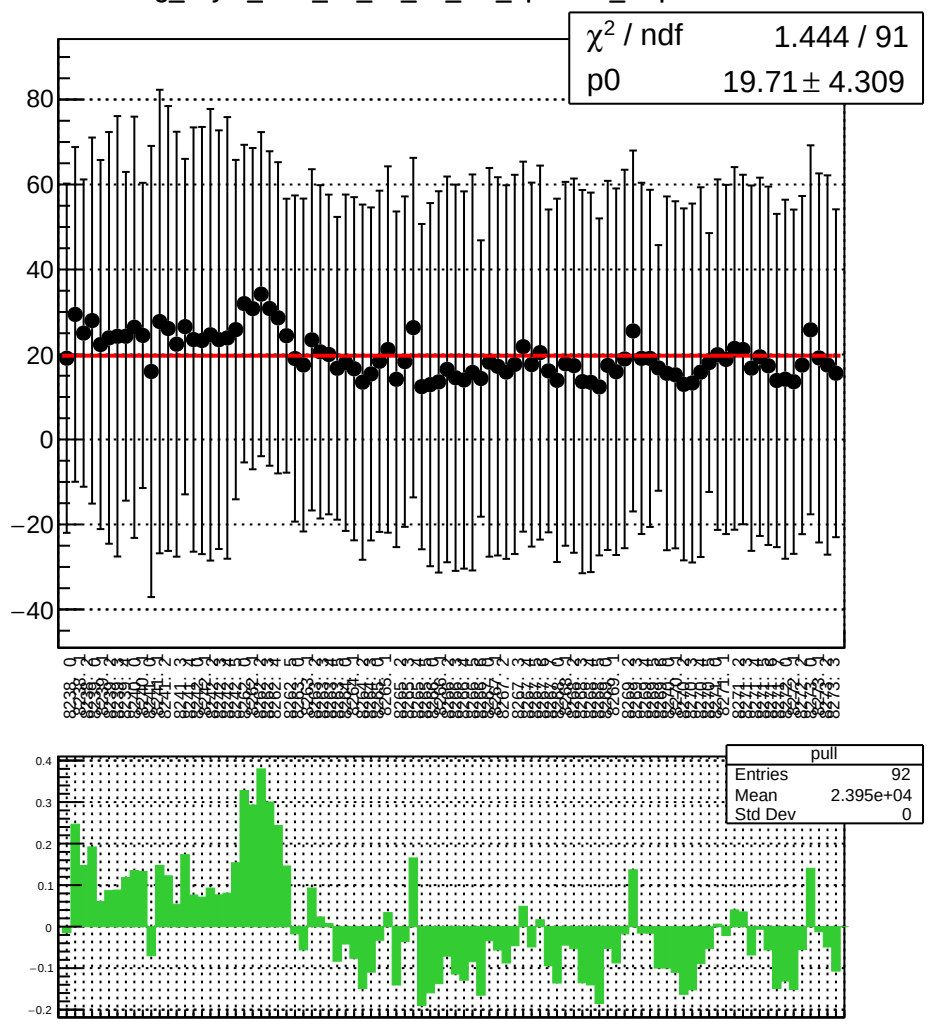

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 2.487 / 91
p0 −19.63 ± 1.946
pull
Entries 92
Mean −4.584
Std Dev 21.95
pull1D
Entries 92
Mean −0.008696
Std Dev 0.1642

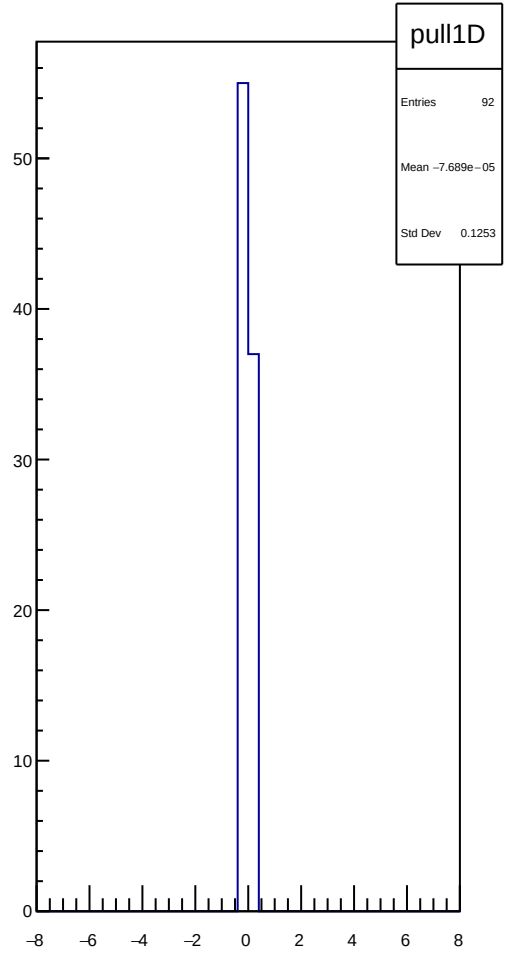

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.493 / 91
p0 −32.15 ± 4.139
pull
Entries 92
Mean −9972
Std Dev 0

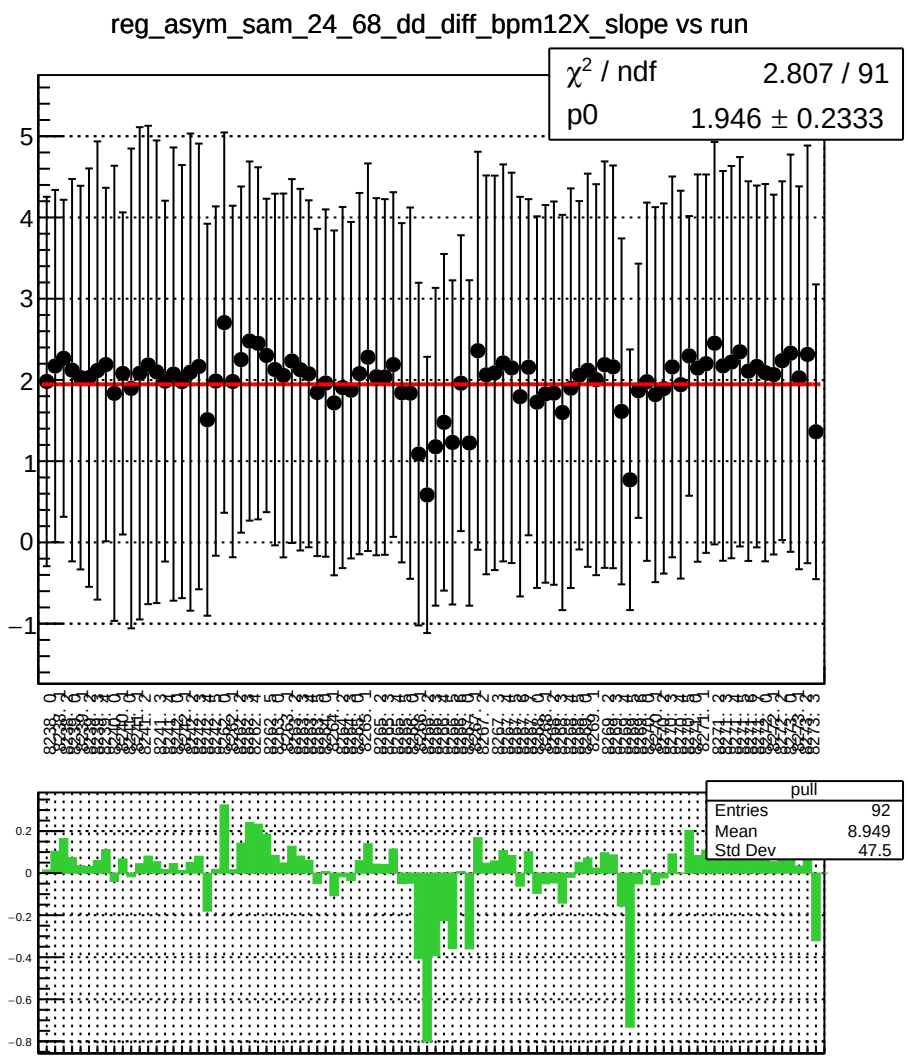

pull1D
Entries 92
Mean −0.0002077
Std Dev 0.1274

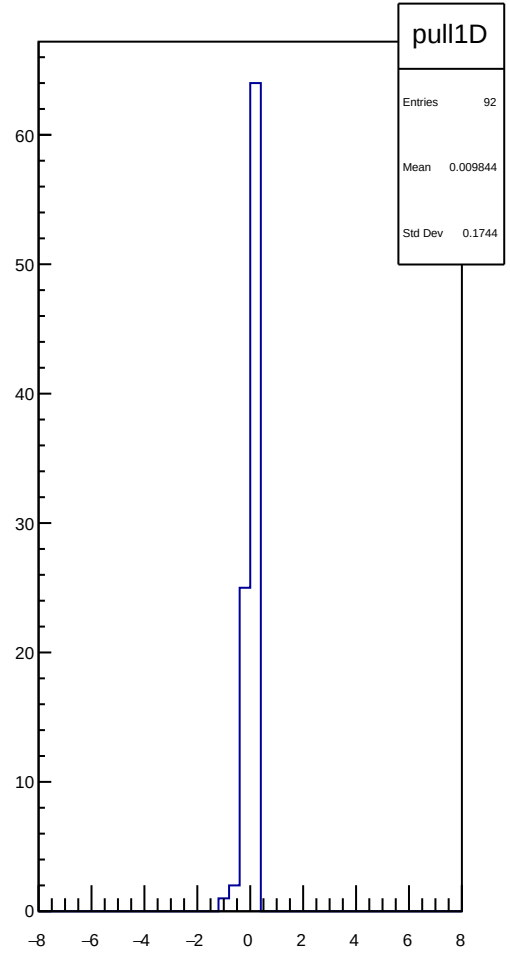

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.933 / 91
p0 −94.17 ± 2.214
pull
Entries 92
Mean −22.05
Std Dev 0

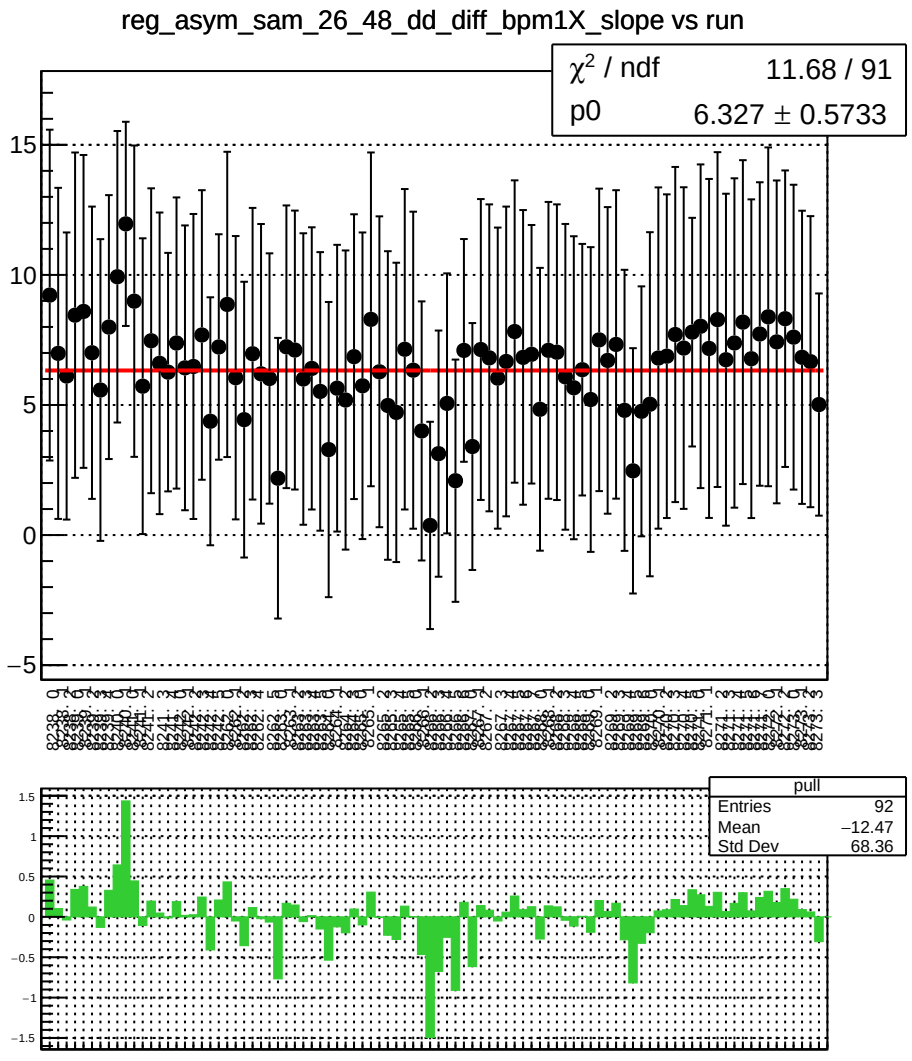

pull1D
Entries 92
Mean 0.01389
Std Dev 0.178

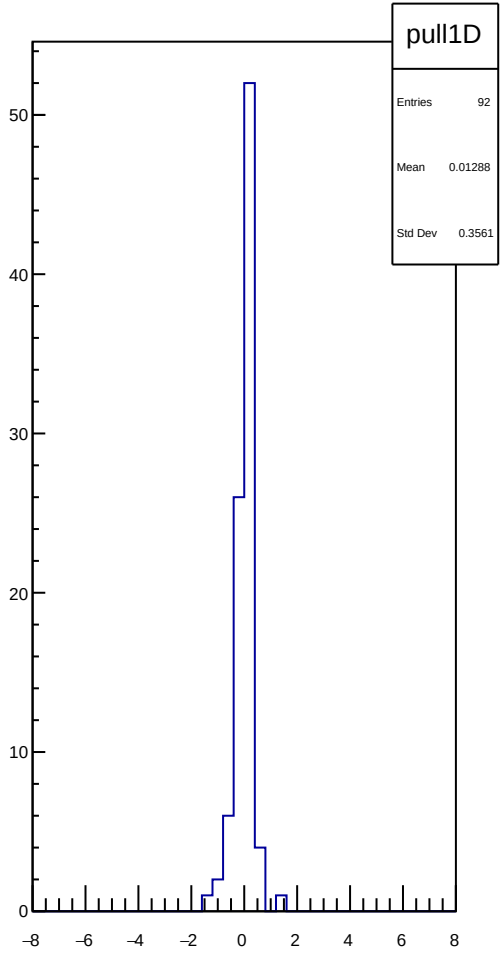

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.444 / 91
p0 19.71 ± 4.309
pull
Entries 92
Mean 2.395e+04
Std Dev 0

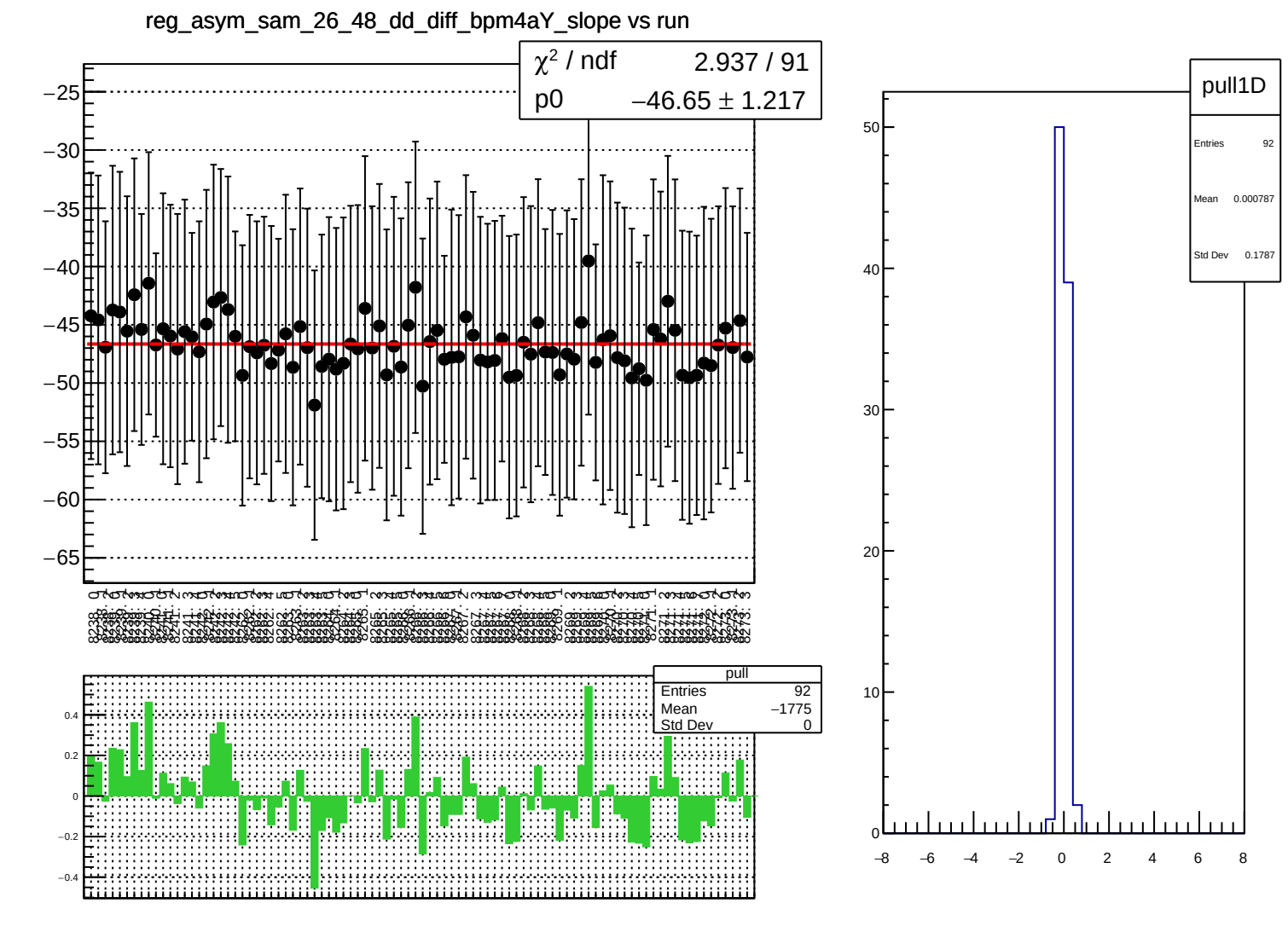

pull1D
Entries 92
Mean −7.689e−05
Std Dev 0.1253

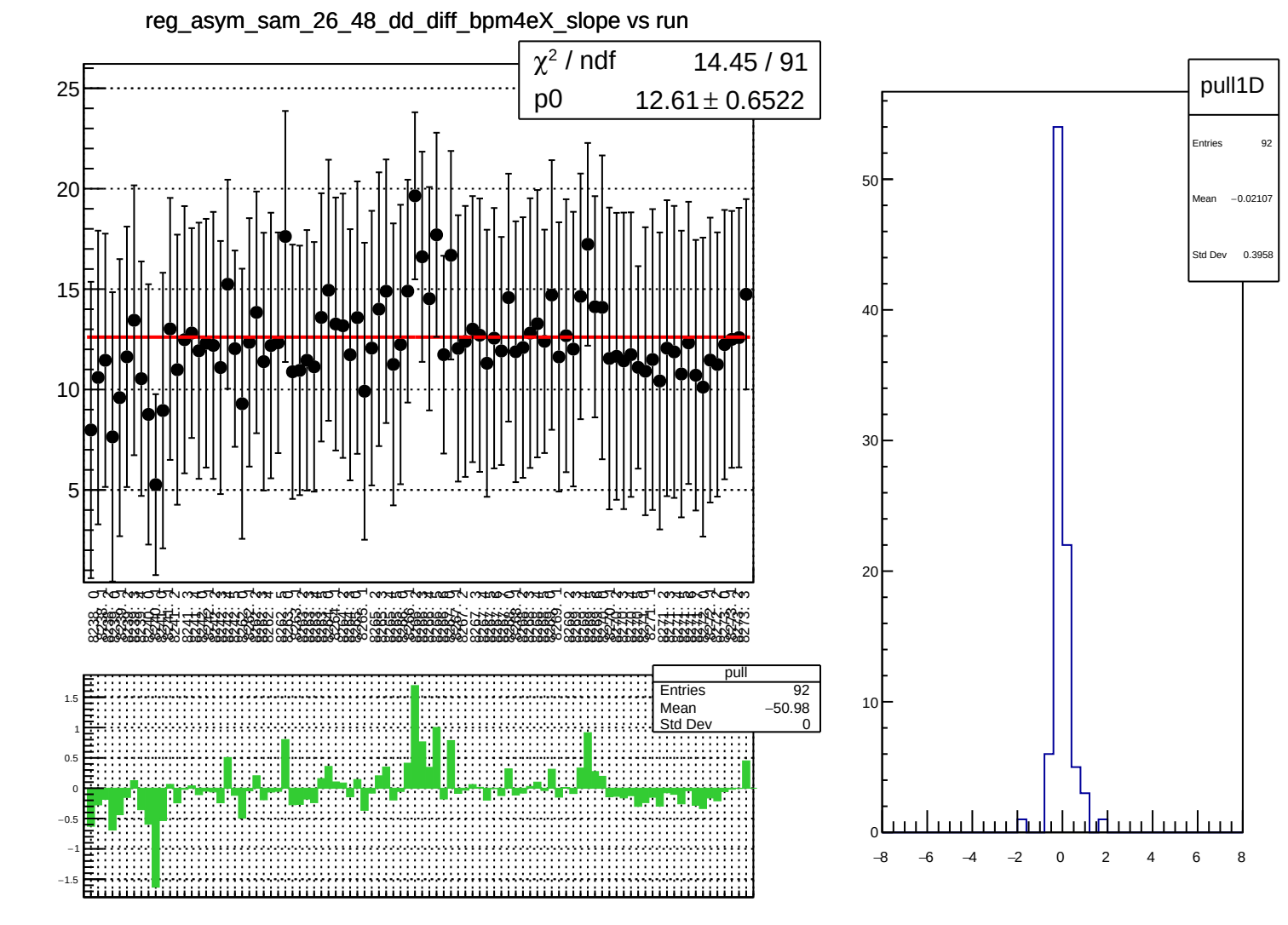

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 2.807 / 91
p0 1.946 ± 0.2333
pull
Entries 92
Mean 8.949
Std Dev 47.5

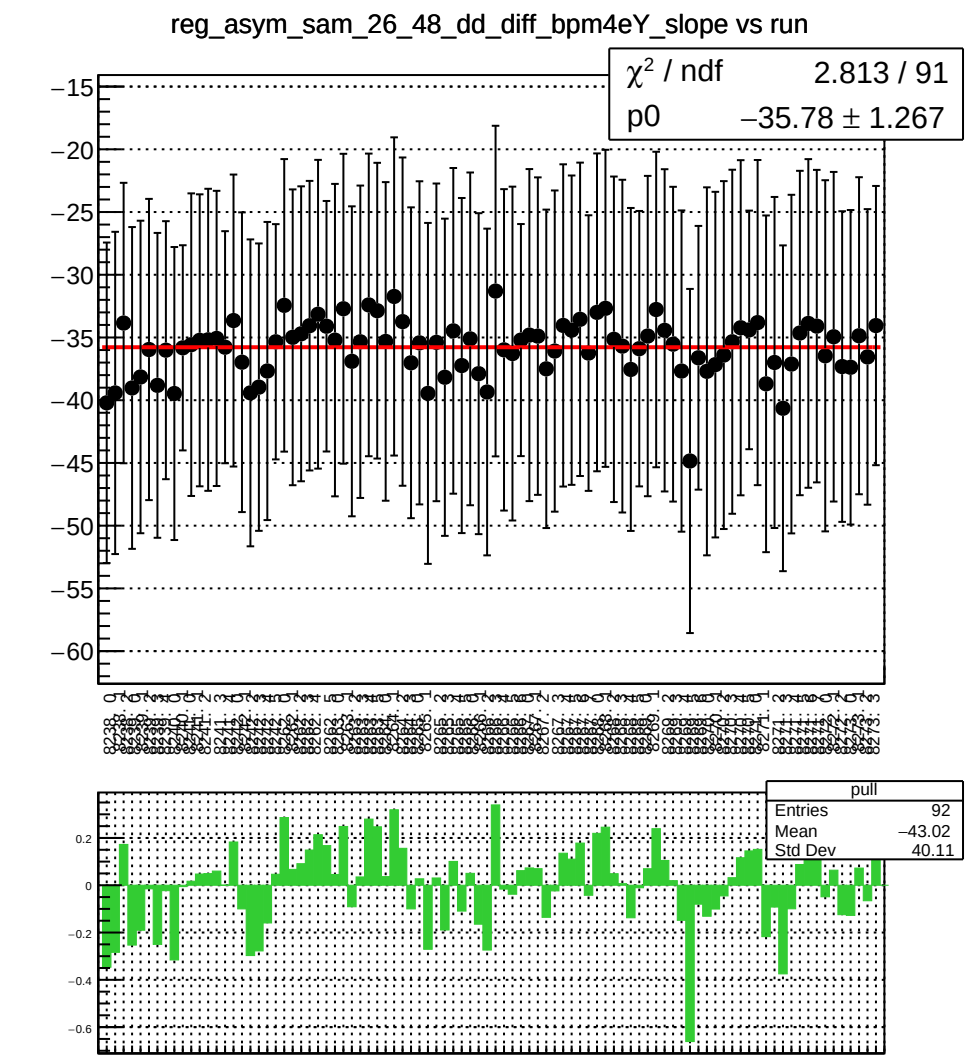

pull1D
Entries 92
Mean 0.009844
Std Dev 0.1744

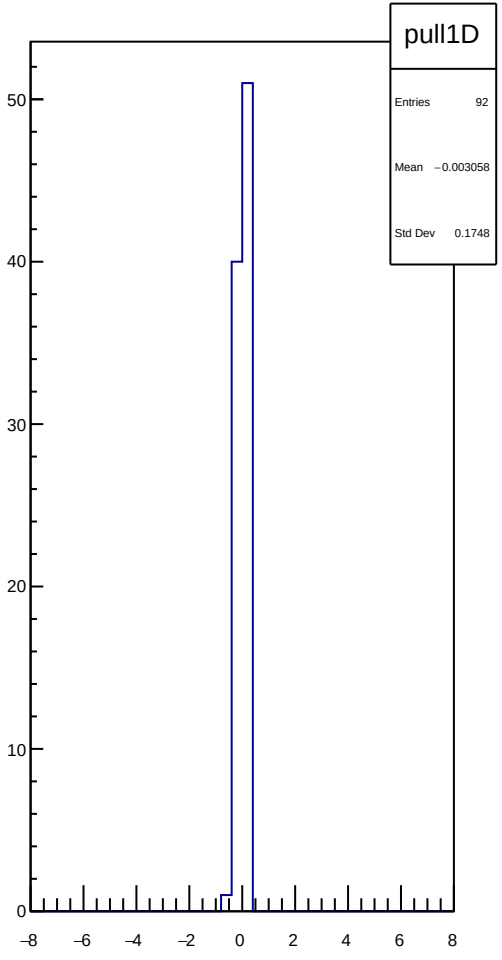

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 11.68 / 91
p0 6.327 ± 0.5733
pull
Entries 92
Mean −12.47
Std Dev 68.36

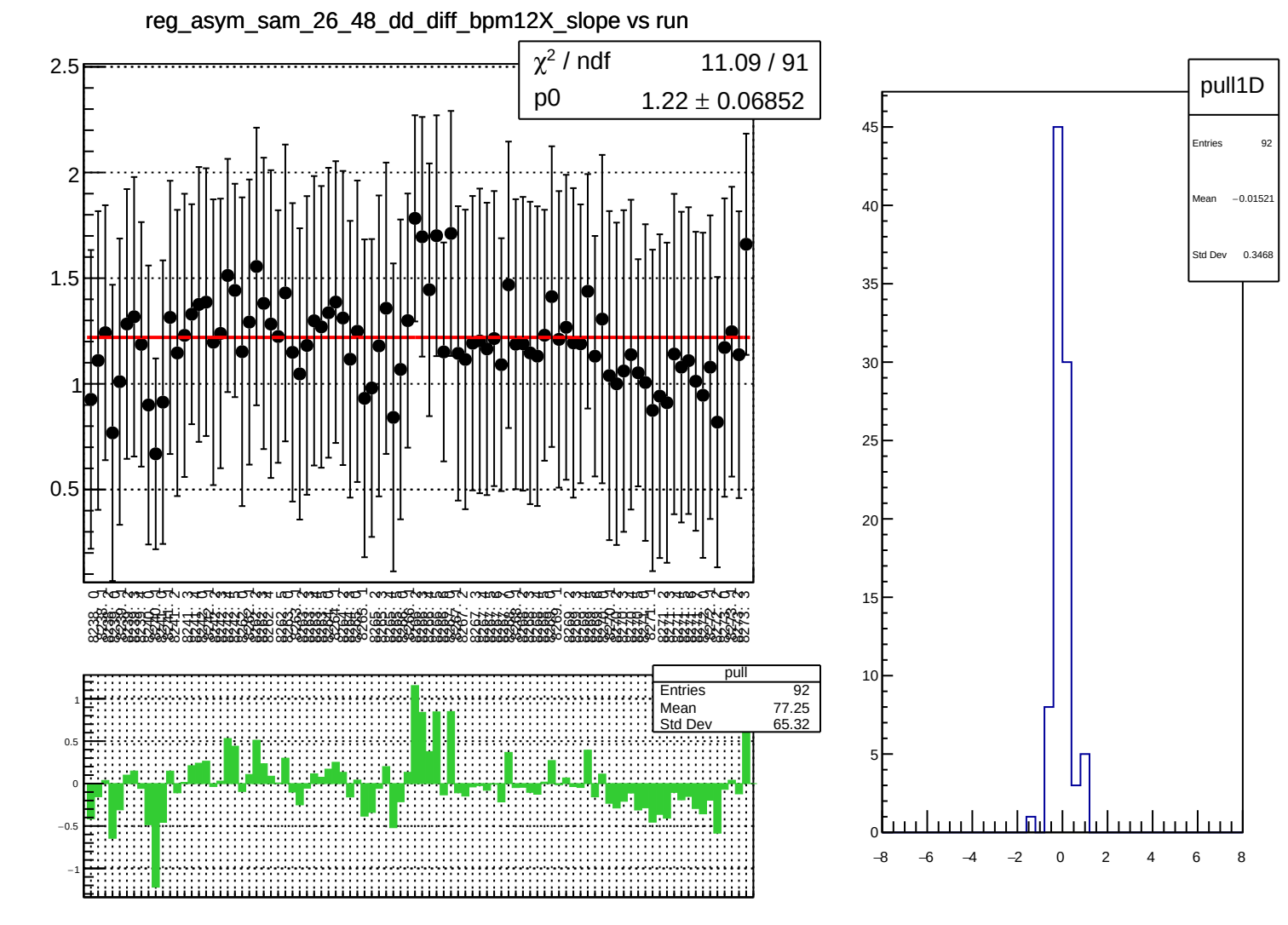

pull1D
Entries 92
Mean 0.01288
Std Dev 0.3561

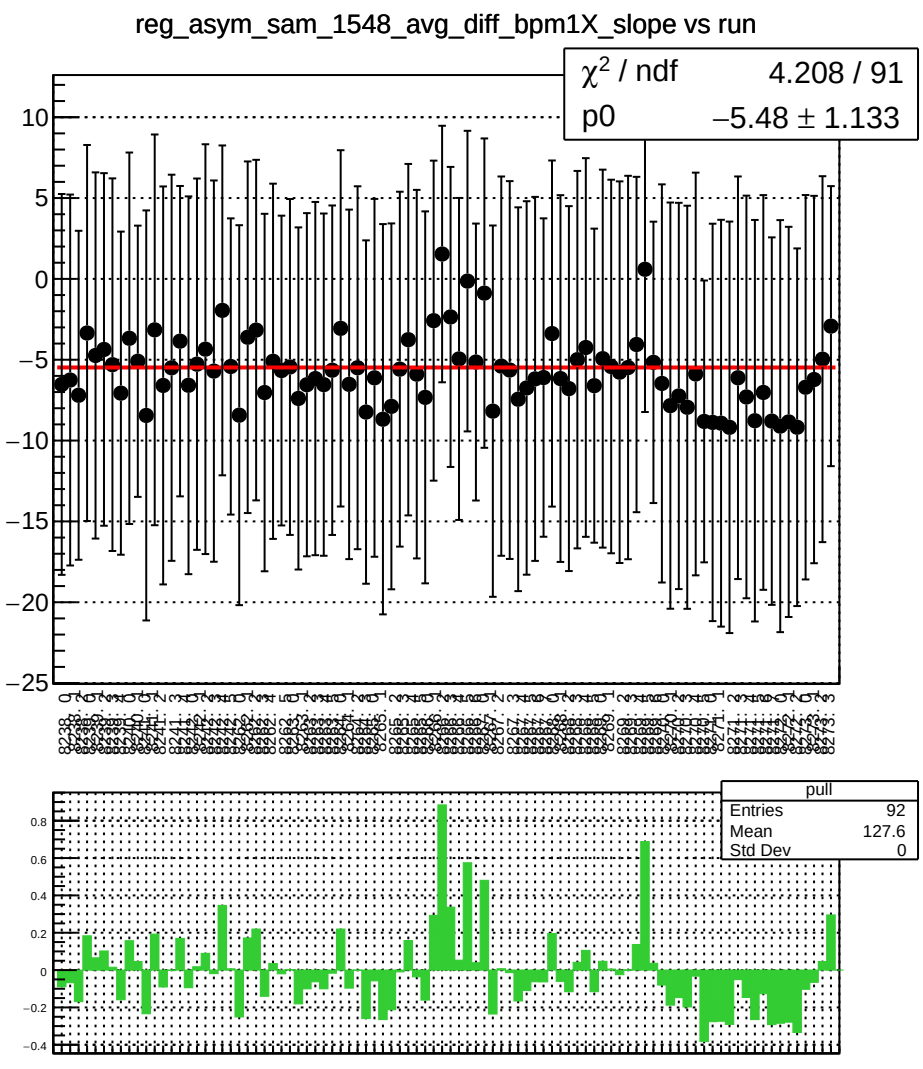

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.937 / 91
p0 −46.65 ± 1.217
pull
Entries 92
Mean −1775
Std Dev 0
pull1D
Entries 92
Mean 0.000787
Std Dev 0.1787

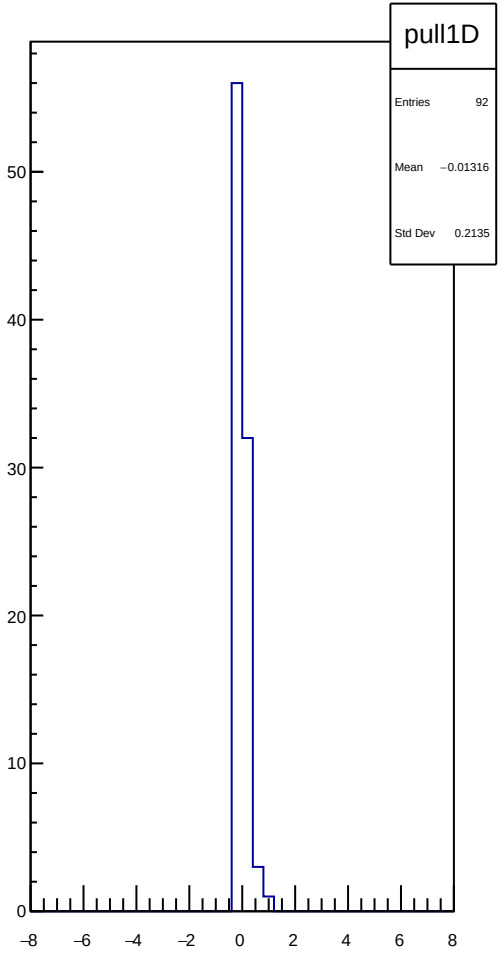

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.45 / 91
p0 12.61 ± 0.6522
pull
Entries 92
Mean −50.98
Std Dev 0
pull1D
Entries 92
Mean −0.02107
Std Dev 0.3958

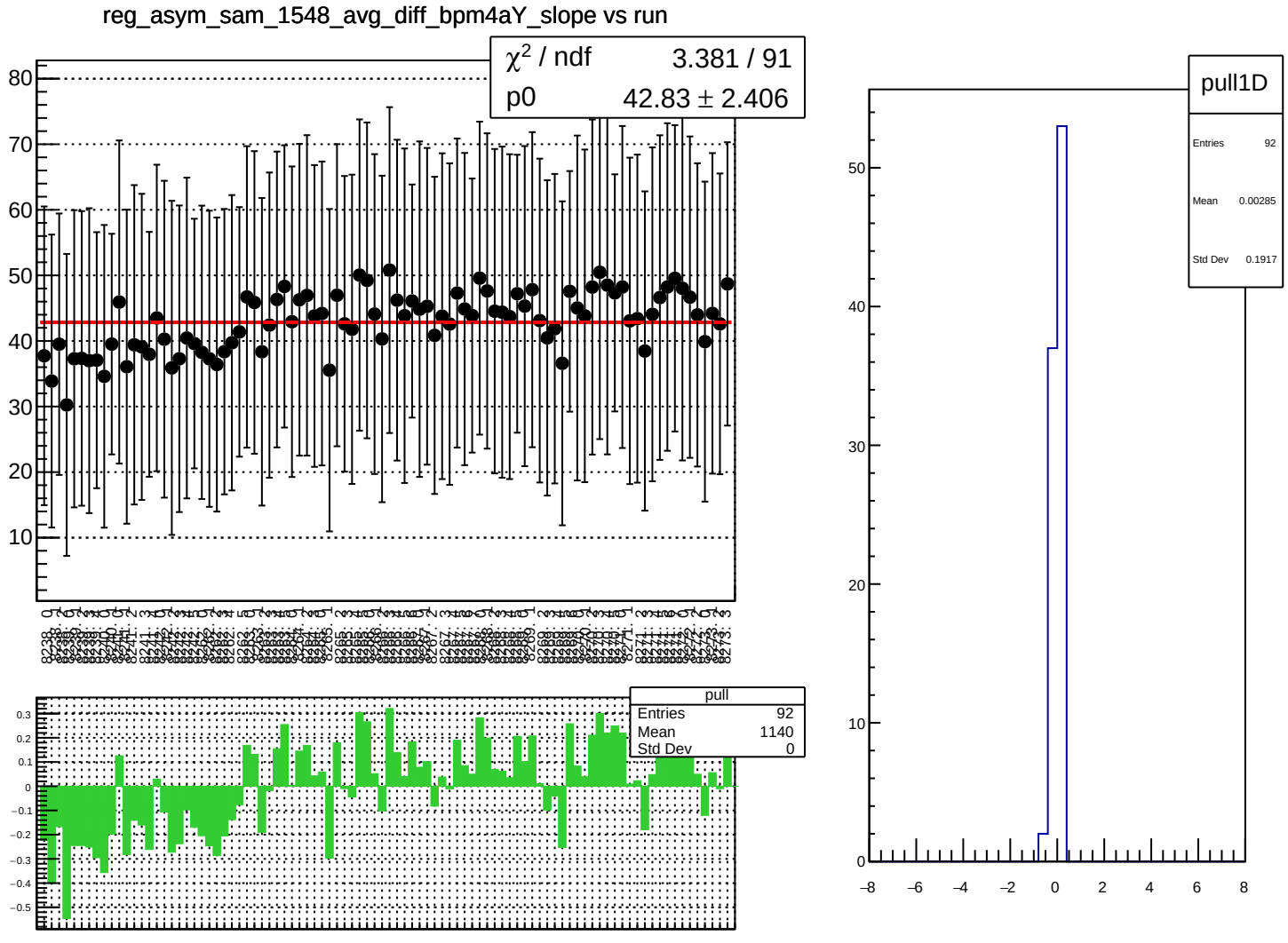

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.813 / 91
p0 −35.78 ± 1.267
pull
Entries 92
Mean −43.02
Std Dev 40.11

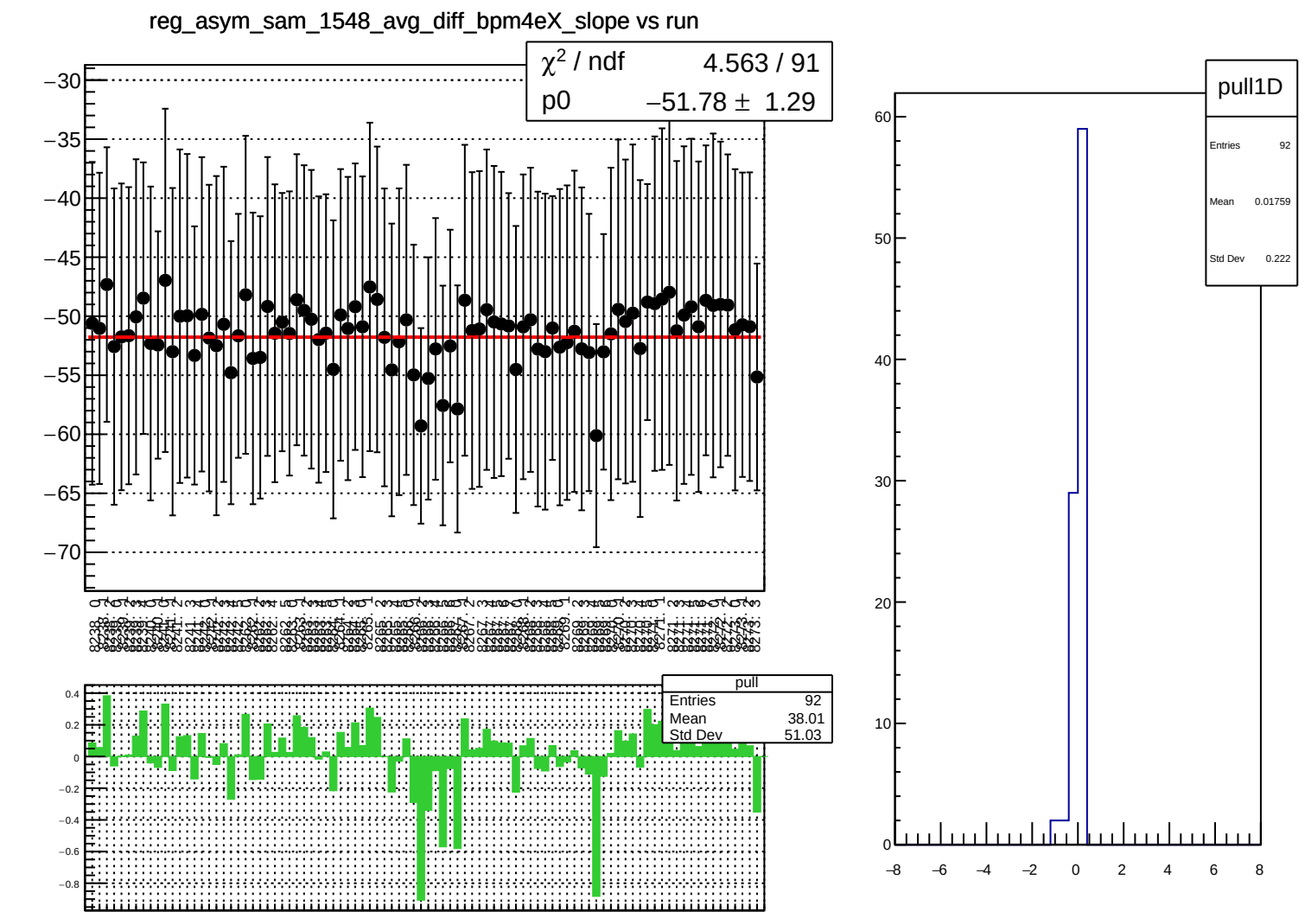

pull1D
Entries 92
Mean −0.003058
Std Dev 0.1748

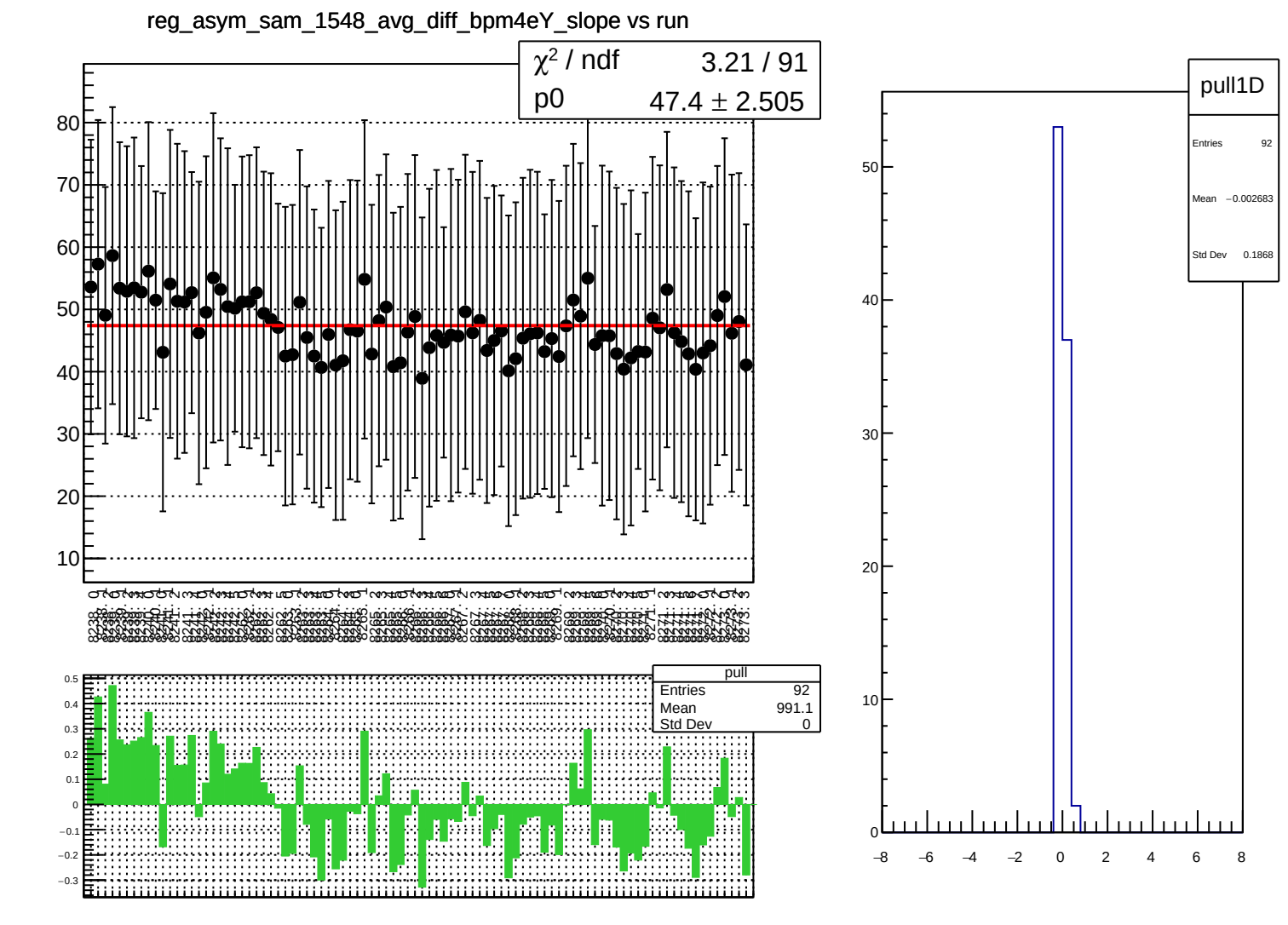

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 11.09 / 91
p0 1.22 ± 0.06852
pull
Entries 92
Mean 77.25
Std Dev 65.32
pull1D
Entries 92
Mean −0.01521
Std Dev 0.3468

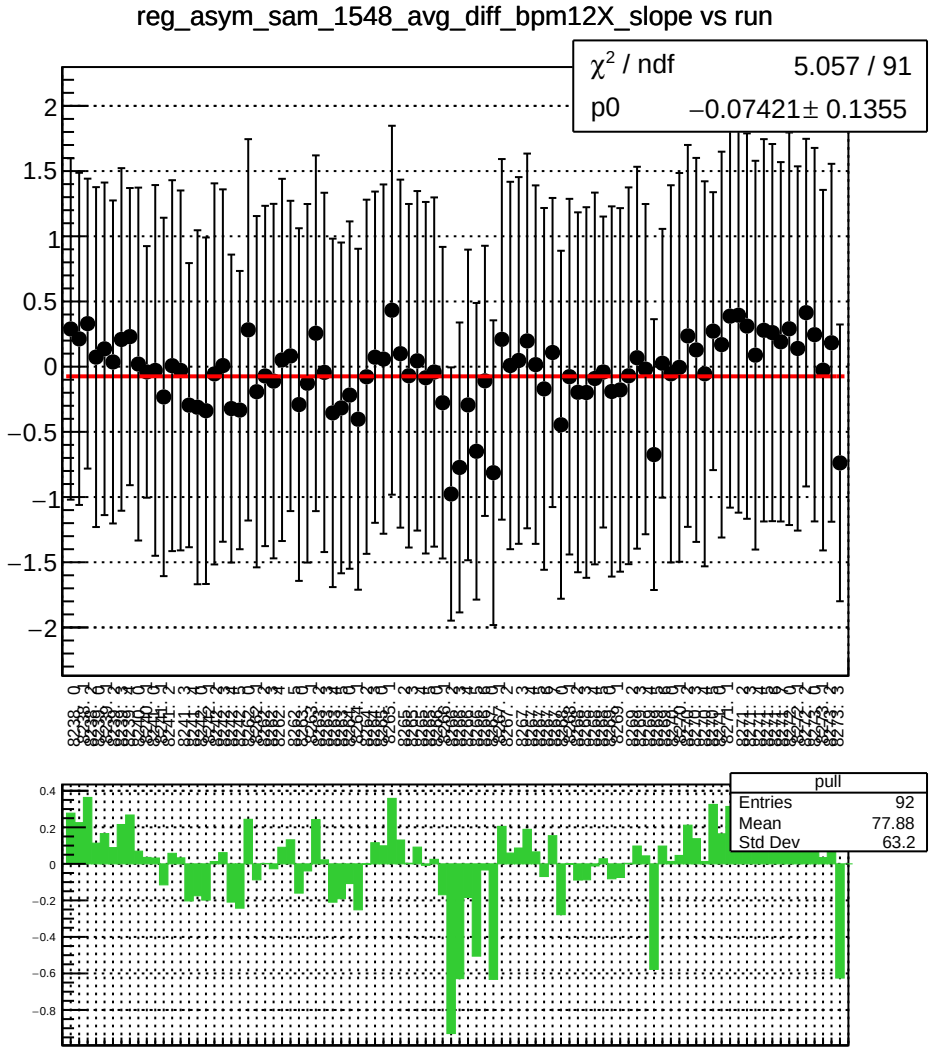

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 4.208 / 91
p0 −5.48 ± 1.133
pull
Entries 92
Mean 127.6
Std Dev 0

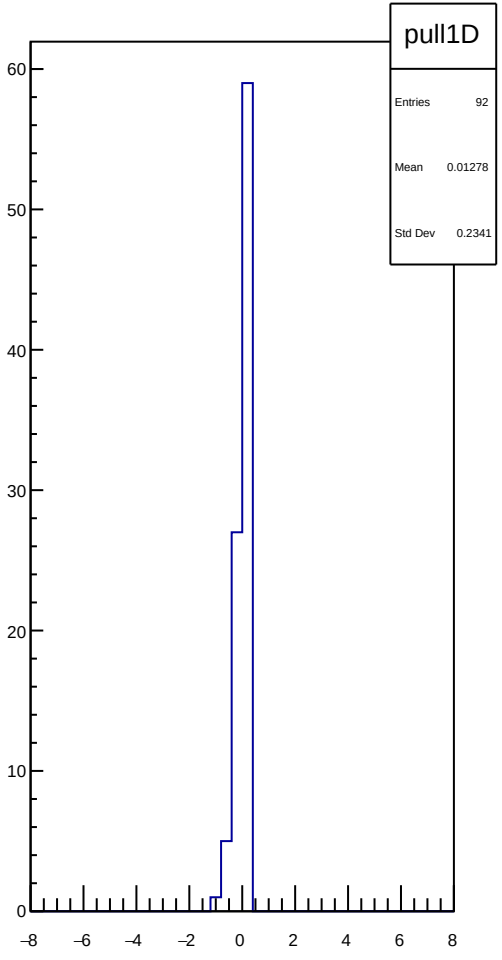

pull1D
Entries 92
Mean −0.01316
Std Dev 0.2135

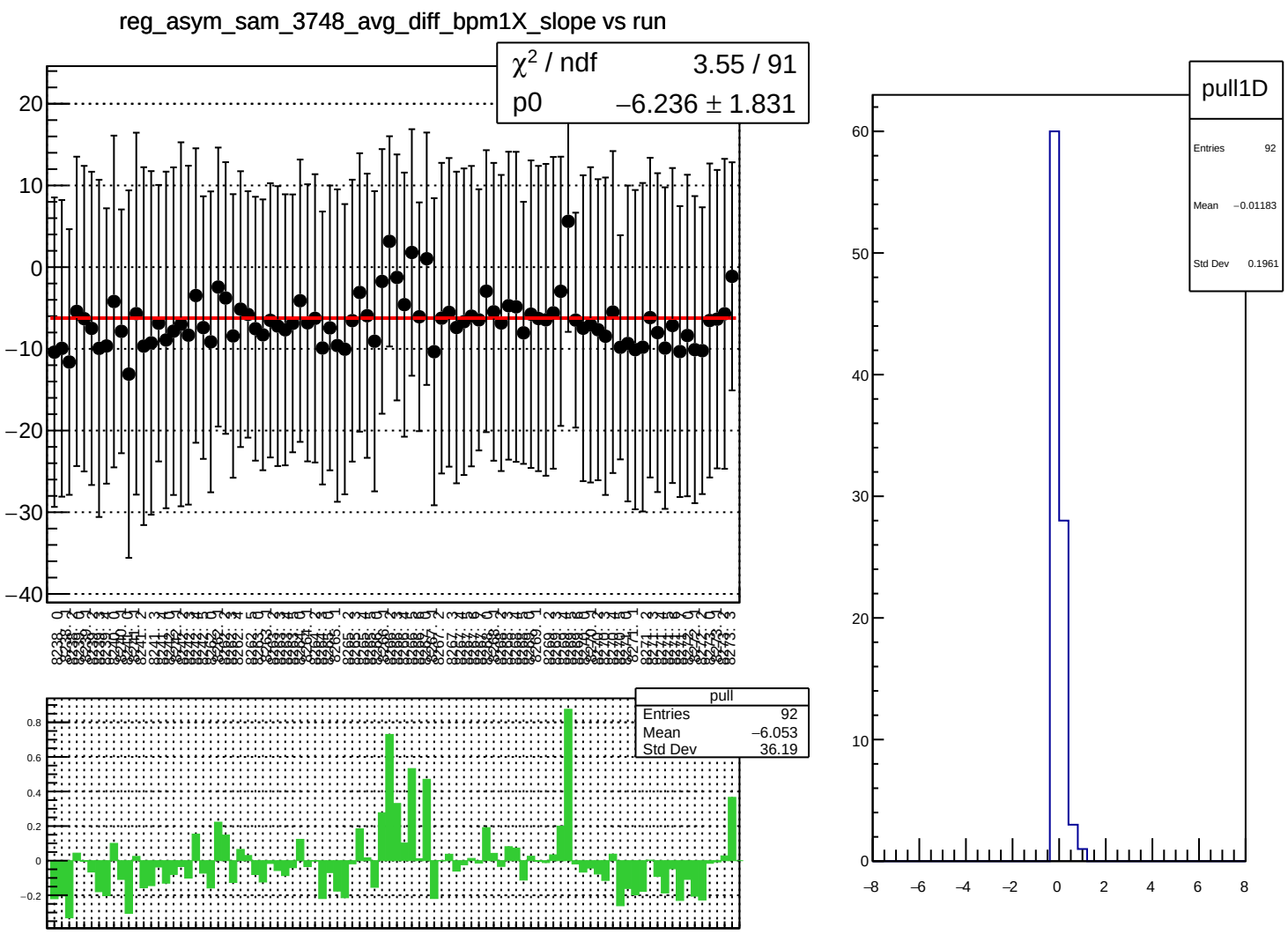

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.381 / 91
p0 42.83 ± 2.406
pull
Entries 92
Mean 1140
Std Dev 0
pull1D
Entries 92
Mean 0.00285
Std Dev 0.1917

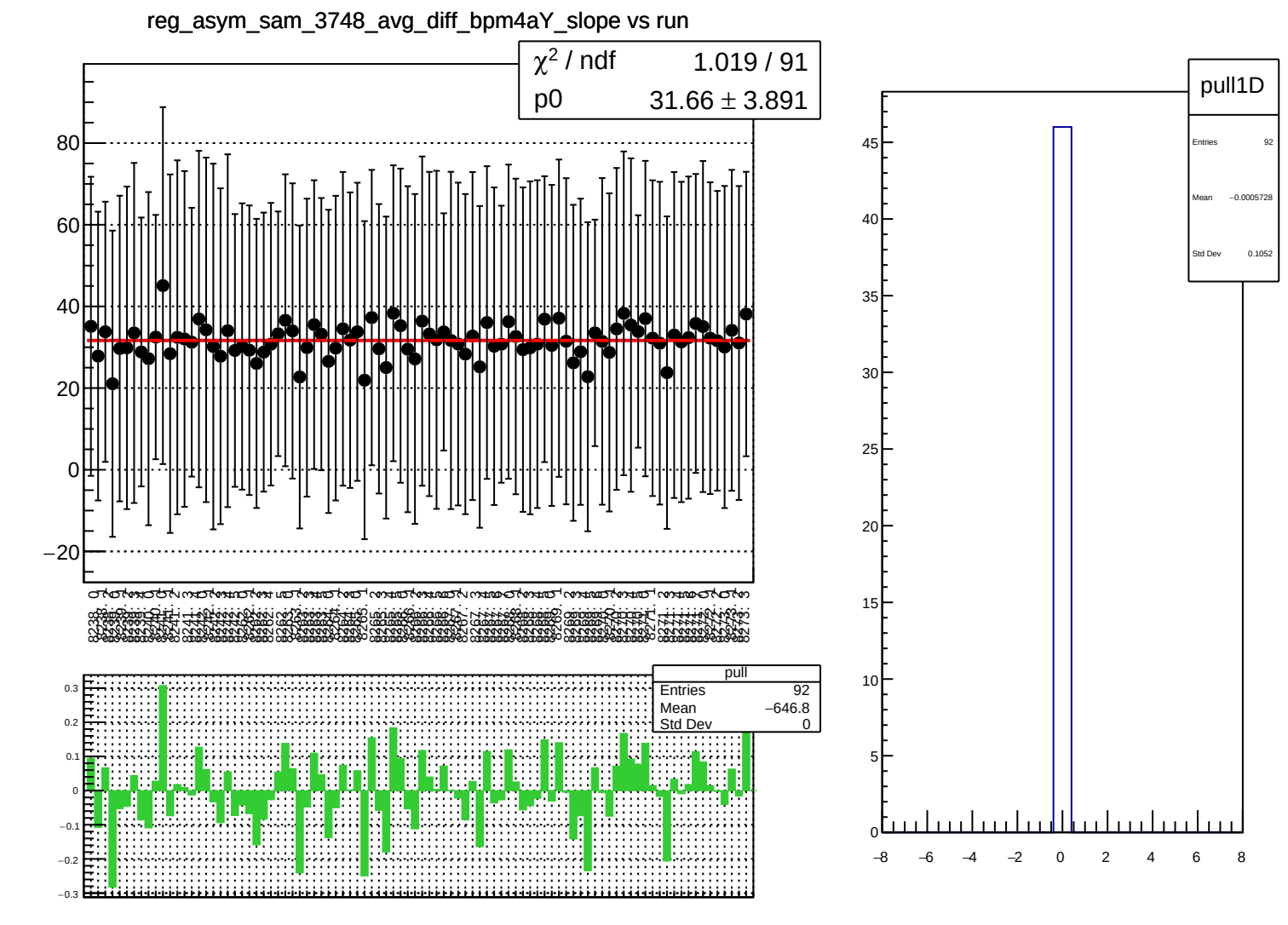

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.563 / 91
p0 −51.78 ± 1.29
pull
Entries 92
Mean 38.01
Std Dev 51.03
pull1D
Entries 92
Mean 0.01759
Std Dev 0.222

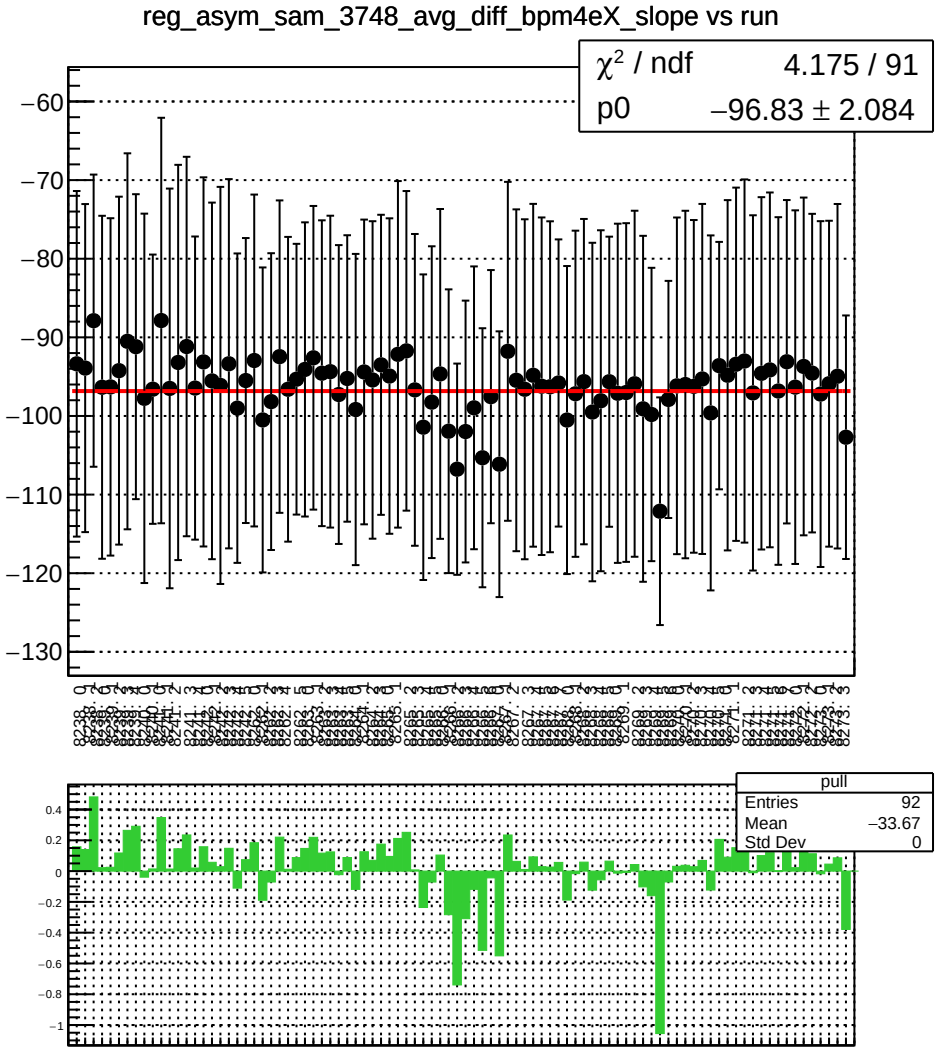

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.21 / 91
p0 47.4 ± 2.505
pull
Entries 92
Mean 991.1
Std Dev 0
pull1D
Entries 92
Mean −0.002683
Std Dev 0.1868

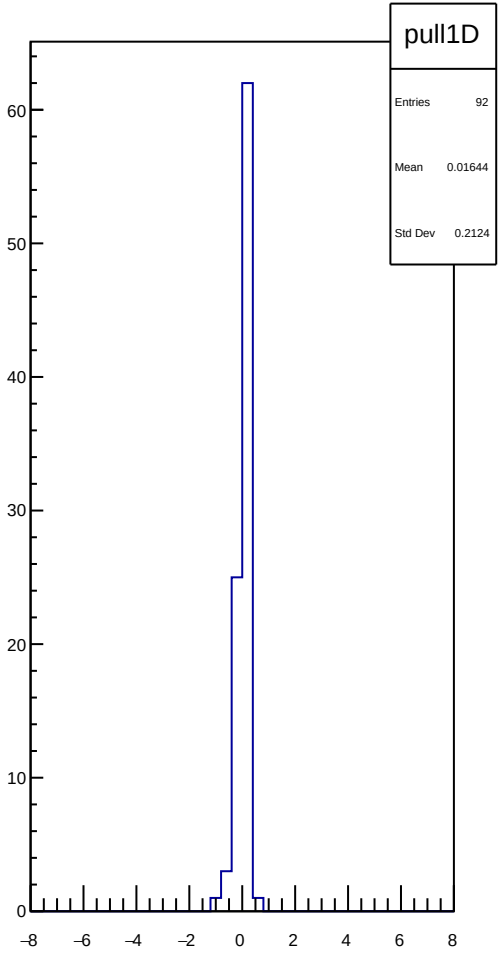

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 5.057 / 91
p0 −0.07421± 0.1355
pull
Entries 92
Mean 77.88
Std Dev 63.2

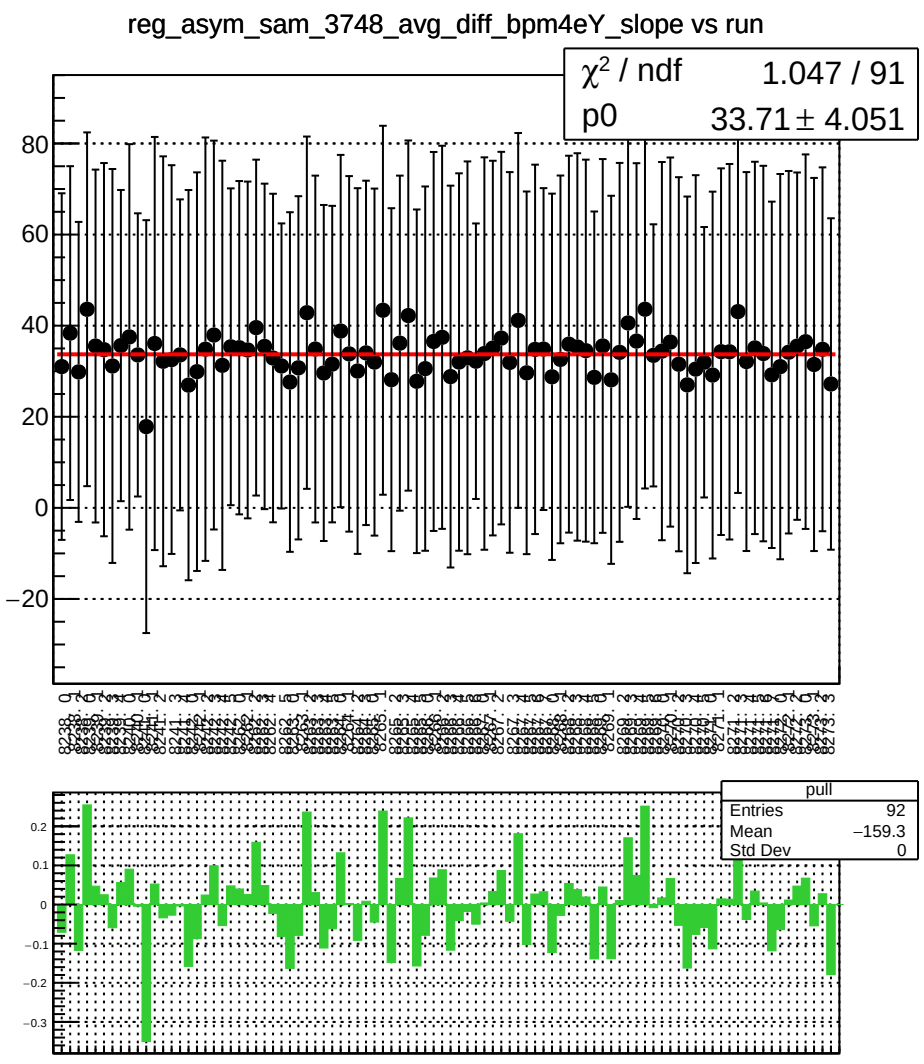

pull1D
Entries 92
Mean 0.01278
Std Dev 0.2341

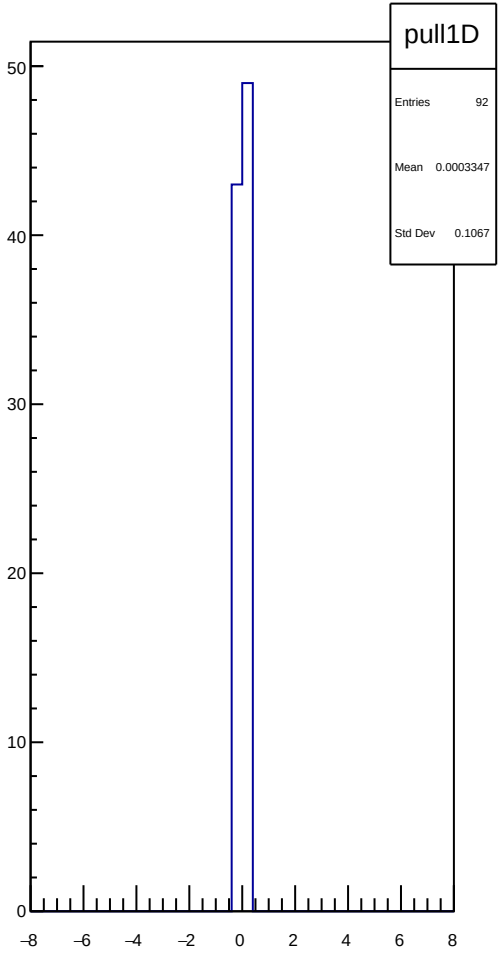

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 3.55 / 91
p0 −6.236 ± 1.831
pull
Entries 92
Mean −6.053
Std Dev 36.19
pull1D
Entries 92
Mean −0.01183
Std Dev 0.1961

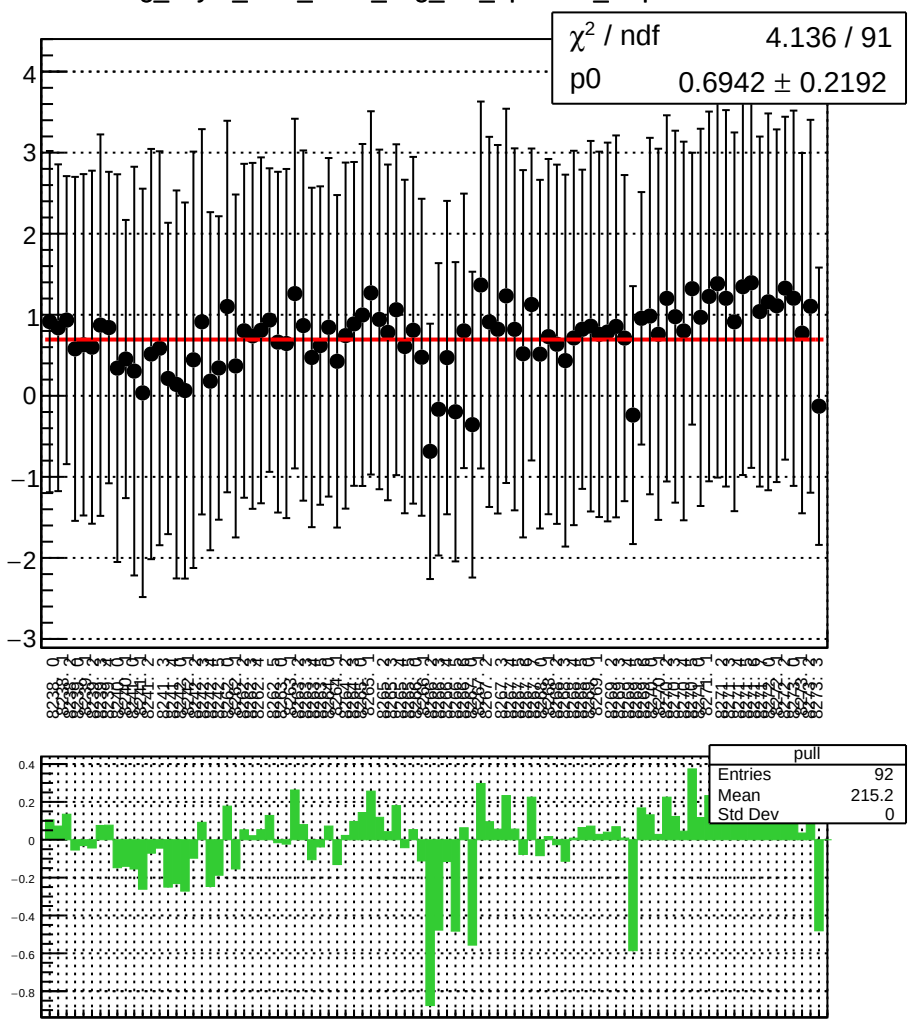

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.019 / 91
p0 31.66 ± 3.891
pull
Entries 92
Mean −646.8
Std Dev 0
pull1D
Entries 92
Mean −0.0005728
Std Dev 0.1052

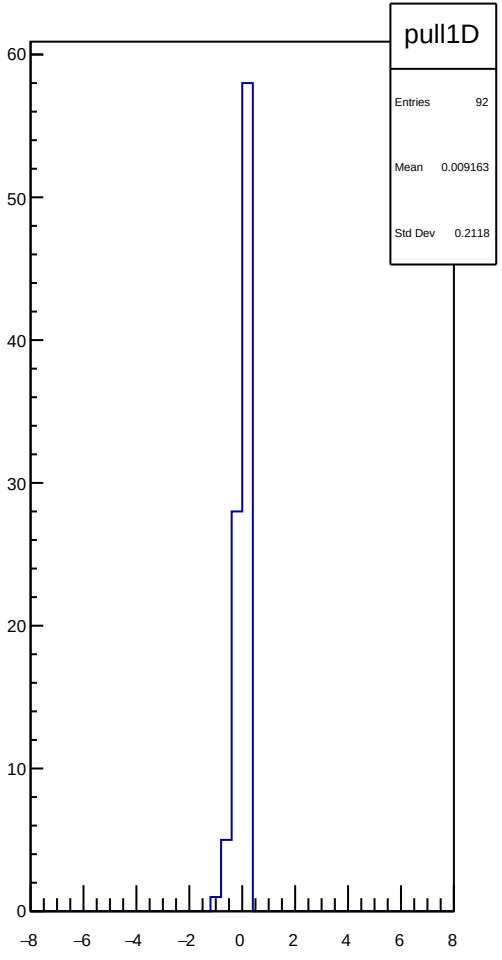

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.175 / 91
p0 −96.83 ± 2.084
pull
Entries 92
Mean −33.67
Std Dev 0

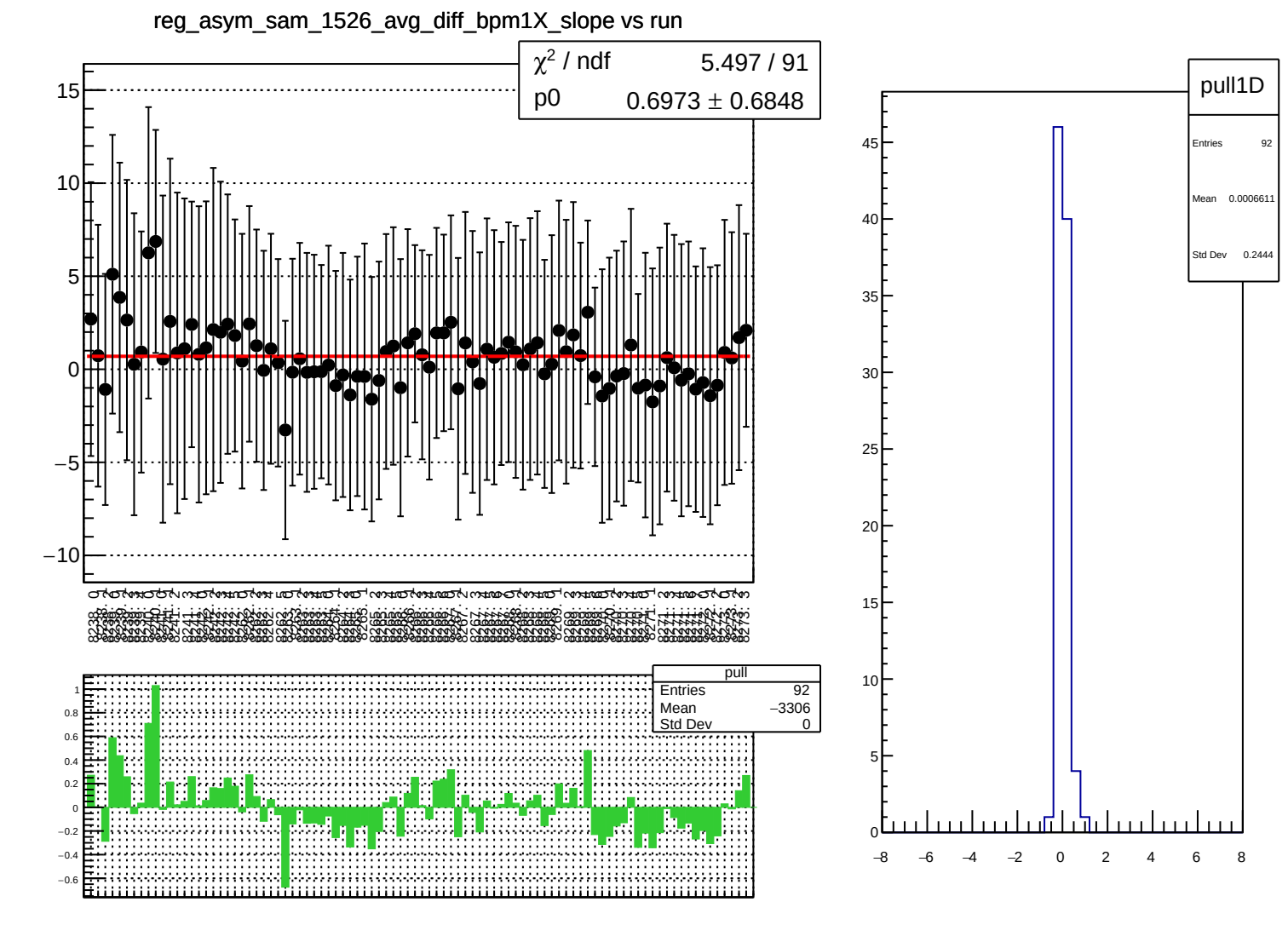

pull1D
Entries 92
Mean 0.01644
Std Dev 0.2124

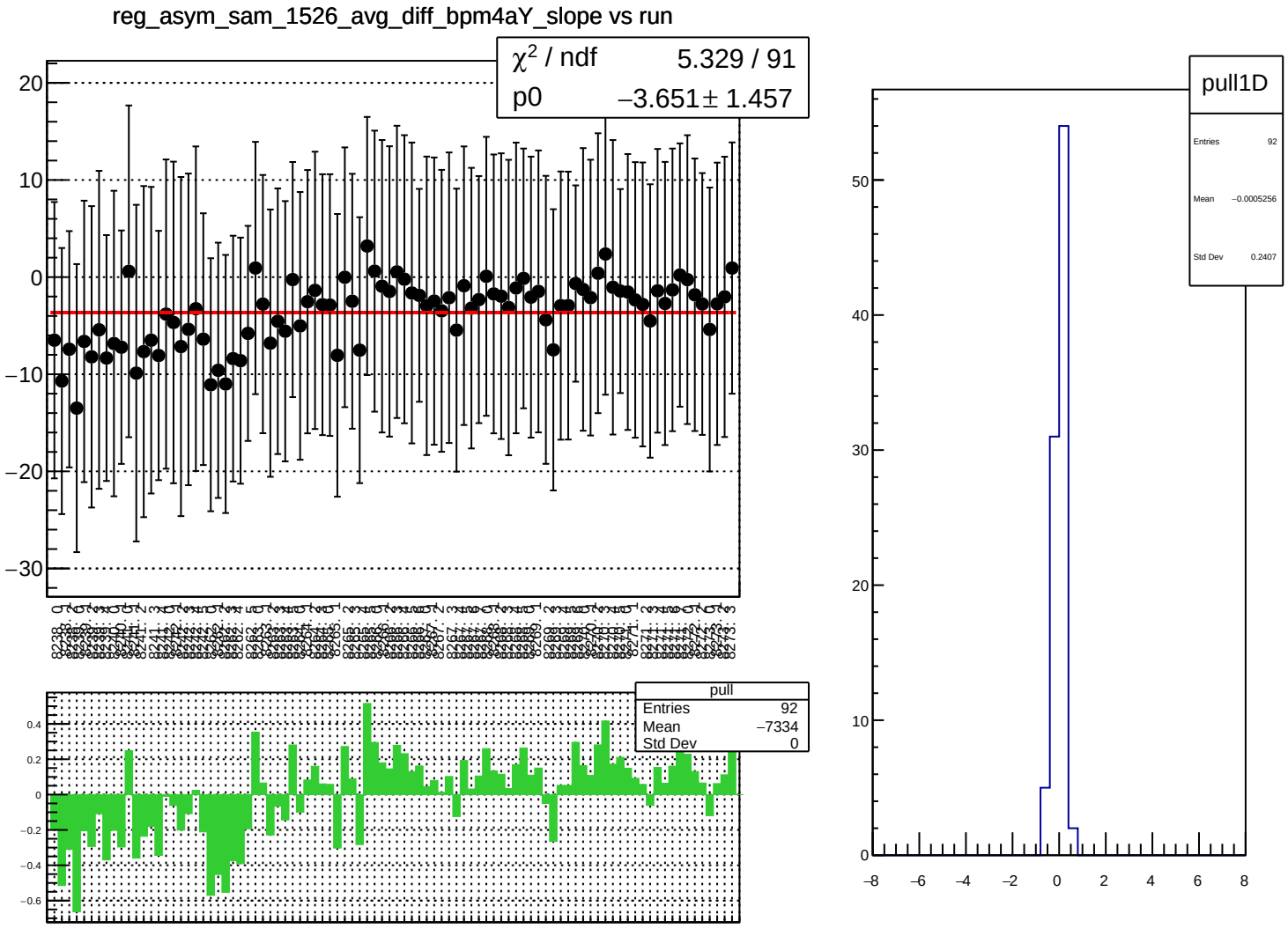

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.047 / 91
p0 33.71 ± 4.051
pull
Entries 92
Mean −159.3
Std Dev 0

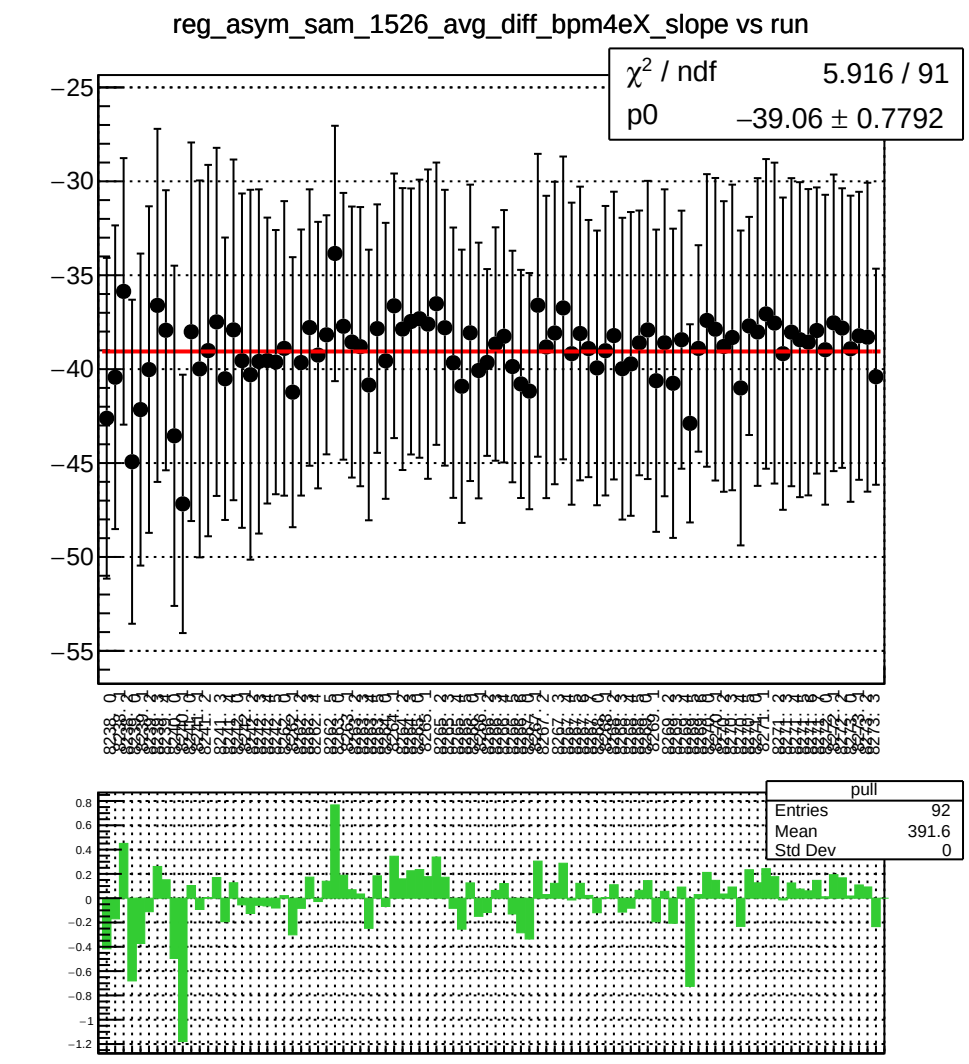

pull1D
Entries 92
Mean 0.0003347
Std Dev 0.1067

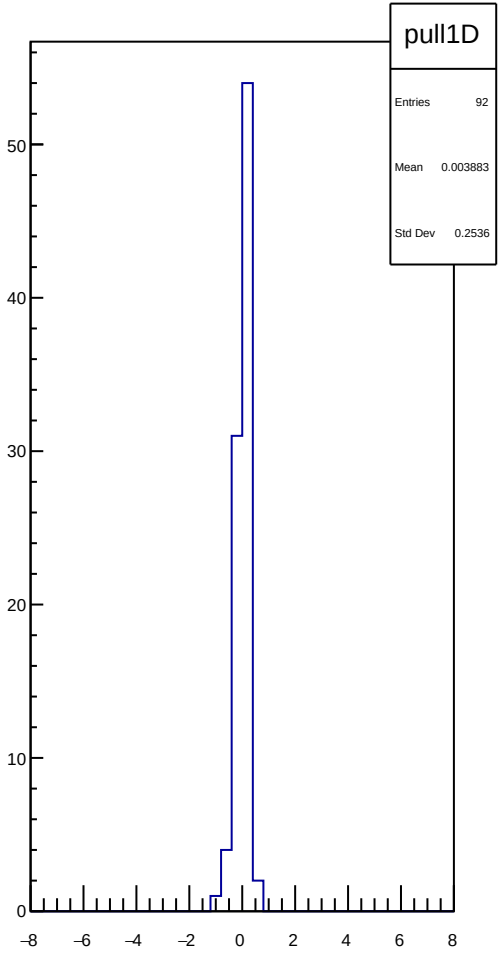

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 4.136 / 91
p0 0.6942 ± 0.2192
pull
Entries 92
Mean 215.2
Std Dev 0

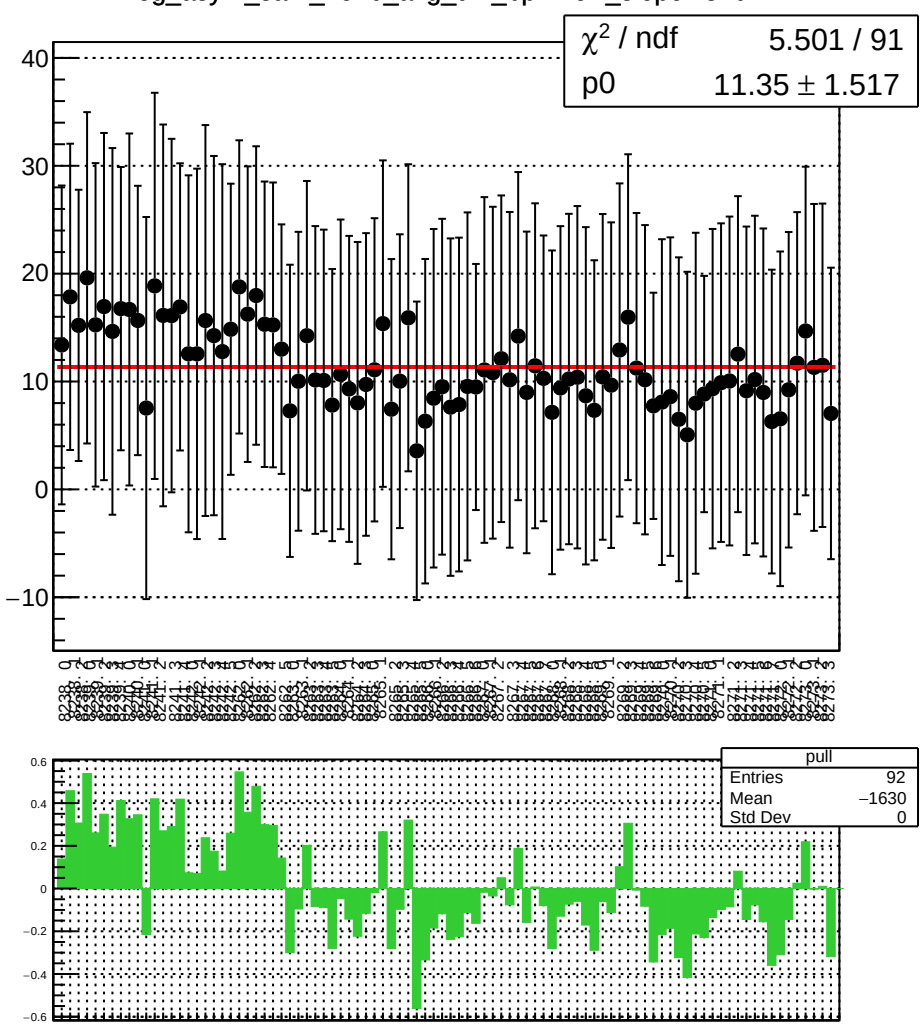

pull1D
Entries 92
Mean 0.009163
Std Dev 0.2118

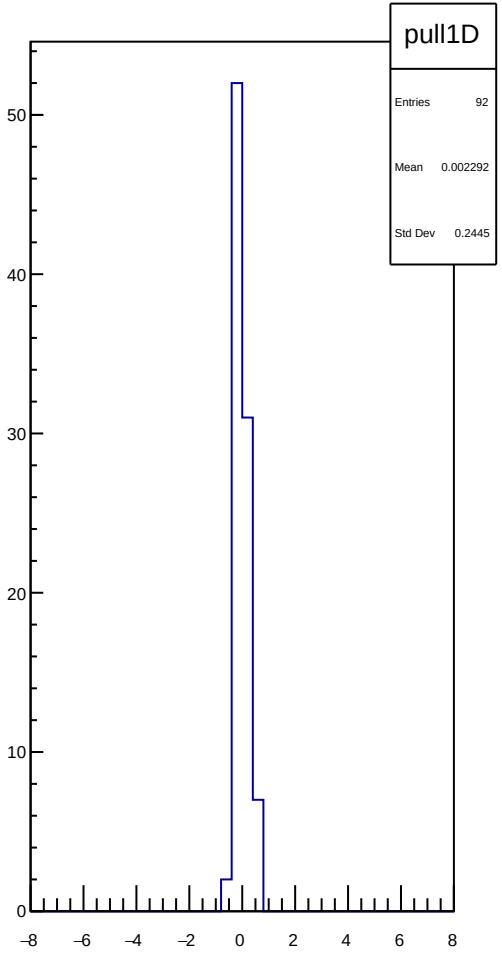

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 5.497 / 91
p0 0.6973 ± 0.6848
pull
Entries 92
Mean −3306
Std Dev 0
pull1D
Entries 92
Mean 0.0006611
Std Dev 0.2444

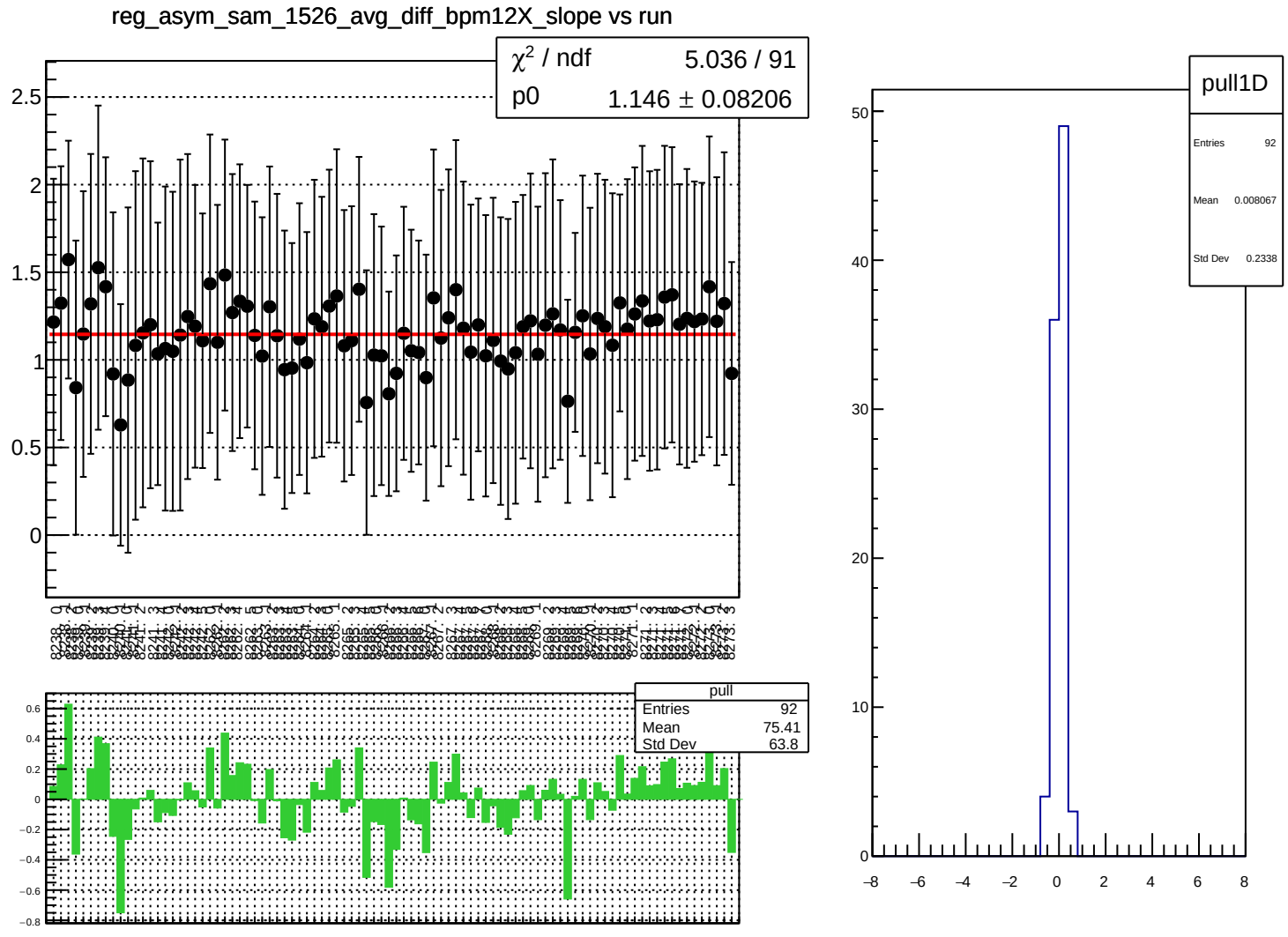

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.329 / 91
p0 −3.651 ± 1.457
pull
Entries 92
Mean −7334
Std Dev 0
pull1D
Entries 92
Mean −0.0005256
Std Dev 0.2407

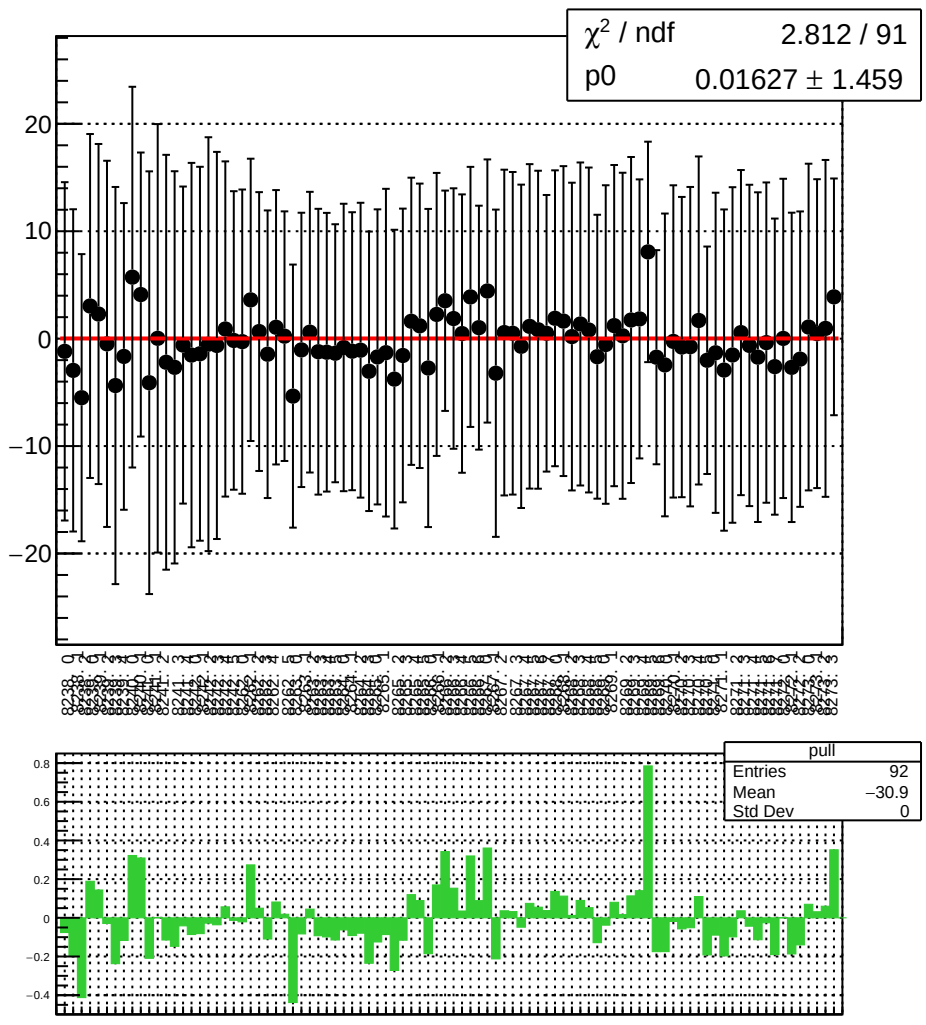

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.916 / 91
p0 −39.06 ± 0.7792
pull
Entries 92
Mean 391.6
Std Dev 0

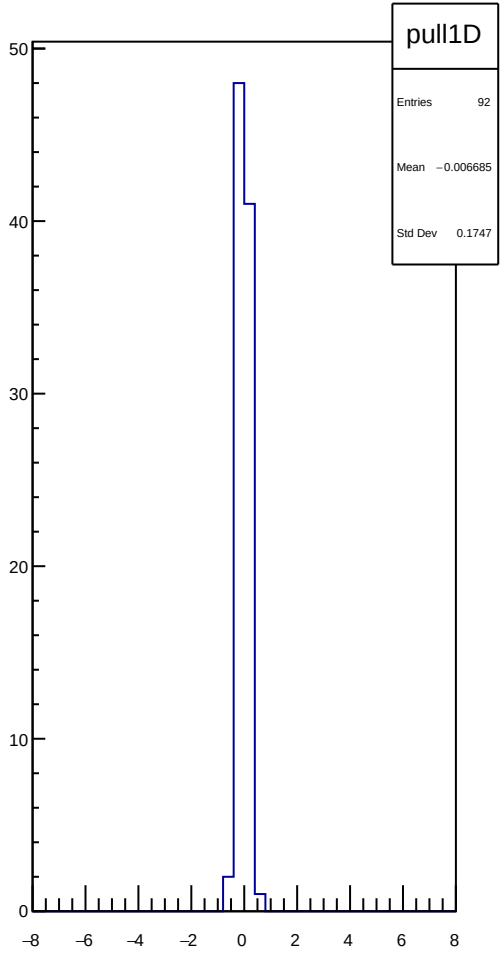

pull1D
Entries 92
Mean 0.003883
Std Dev 0.2536

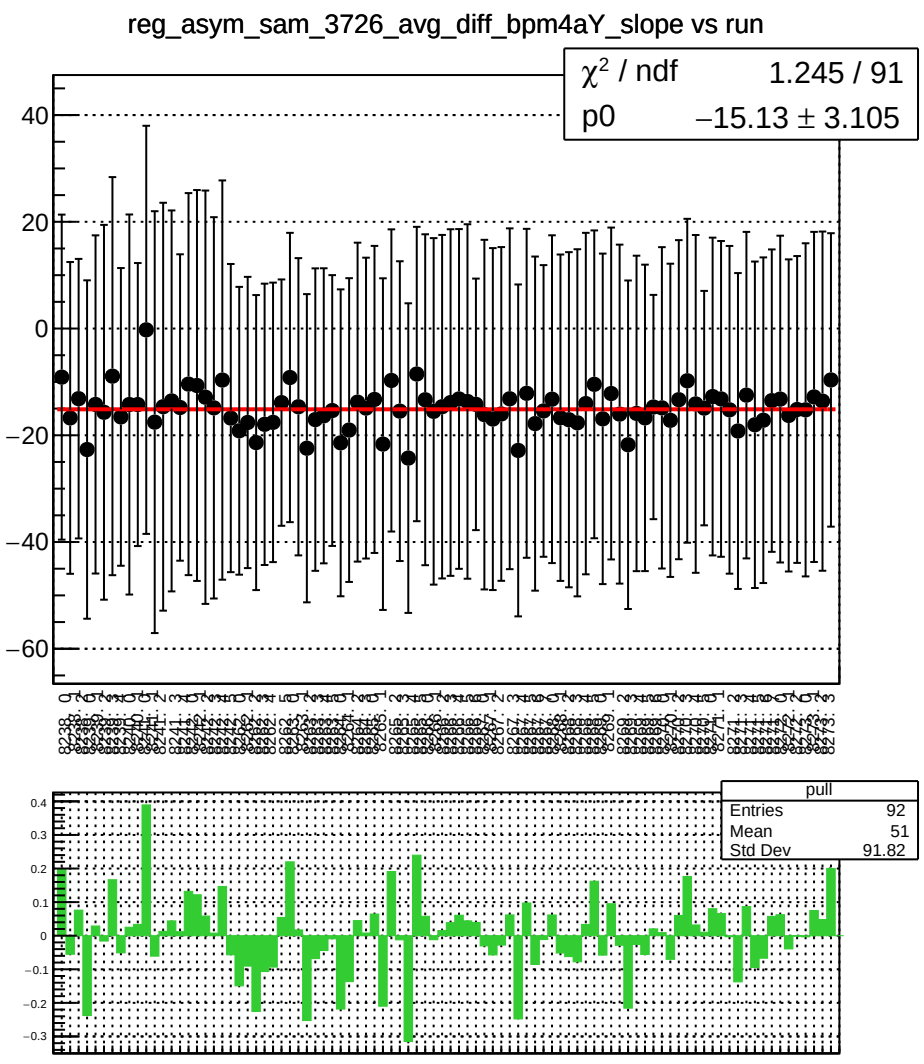

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.501 / 91
p0 11.35 ± 1.517
pull
Entries 92
Mean −1630
Std Dev 0

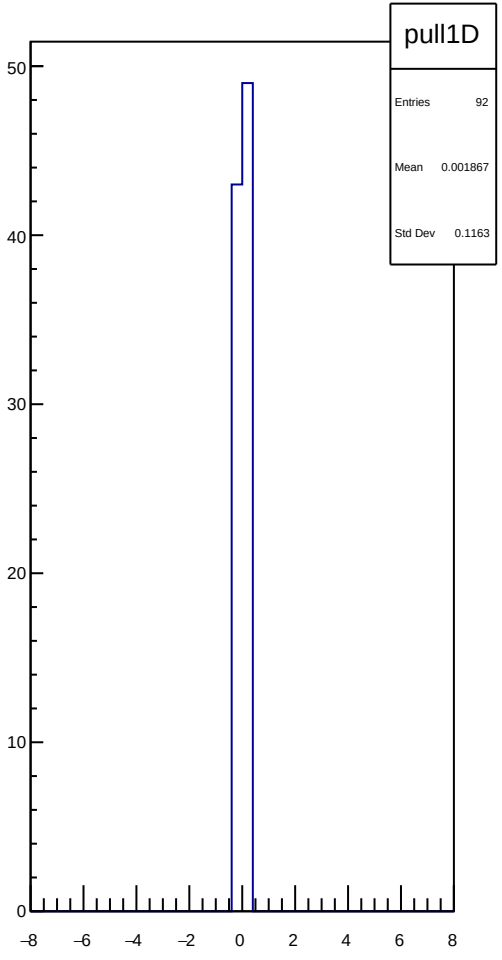

pull1D
Entries 92
Mean 0.002292
Std Dev 0.2445

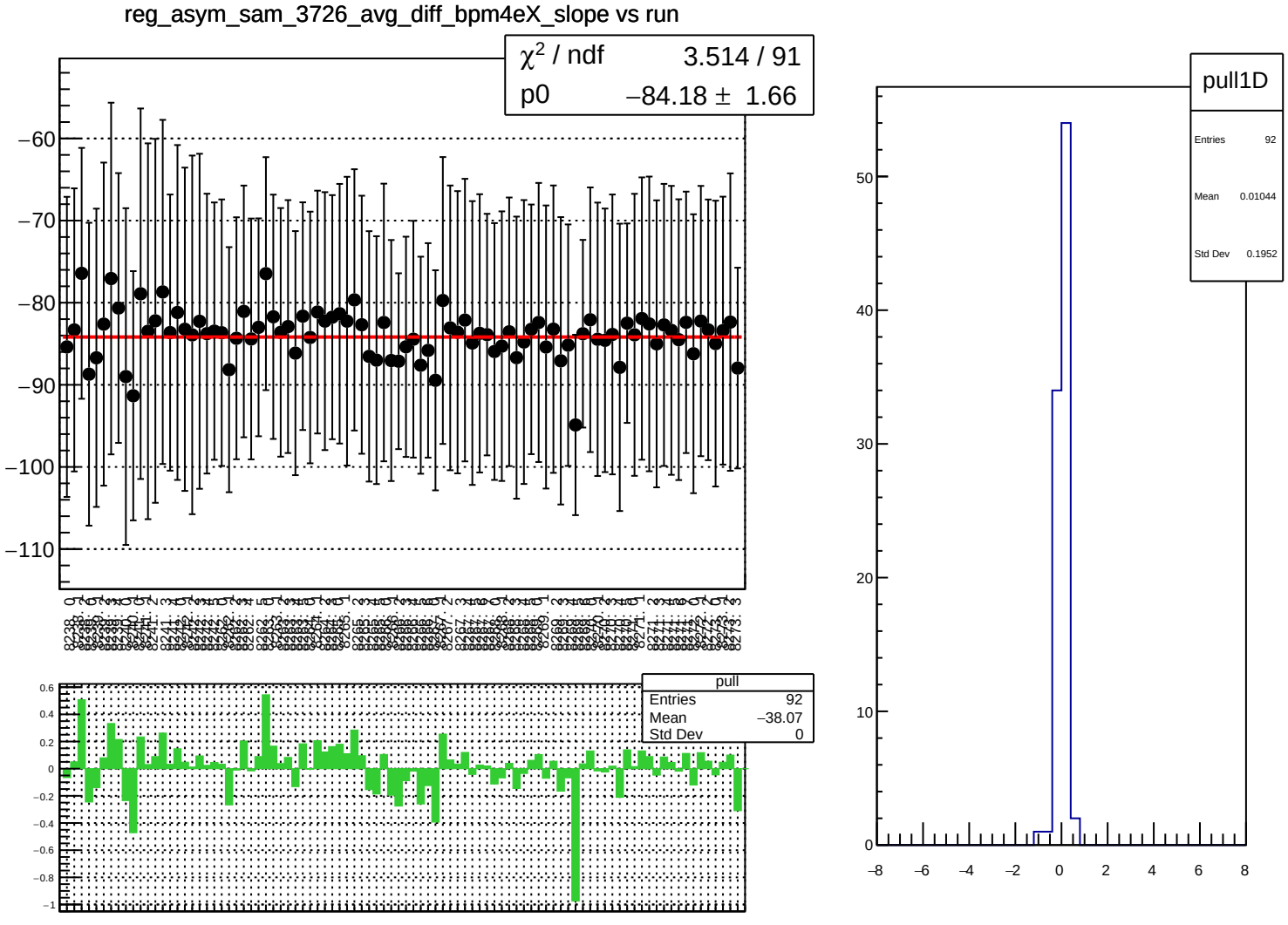

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 5.036 / 91
p0 1.146 ± 0.08206
pull
Entries 92
Mean 75.41
Std Dev 63.8
pull1D
Entries 92
Mean 0.008067
Std Dev 0.2338

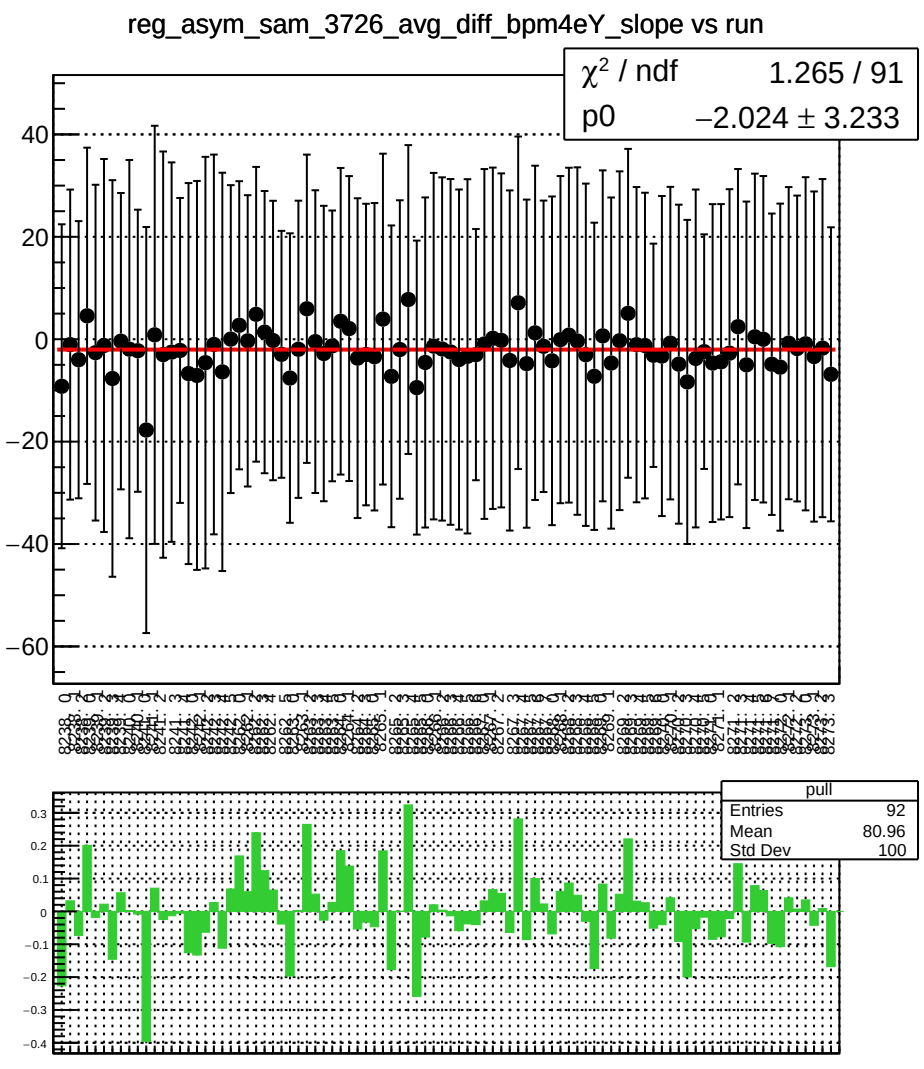

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 2.812 / 91
p0 0.01627 ± 1.459
pull
Entries 92
Mean −30.9
Std Dev 0

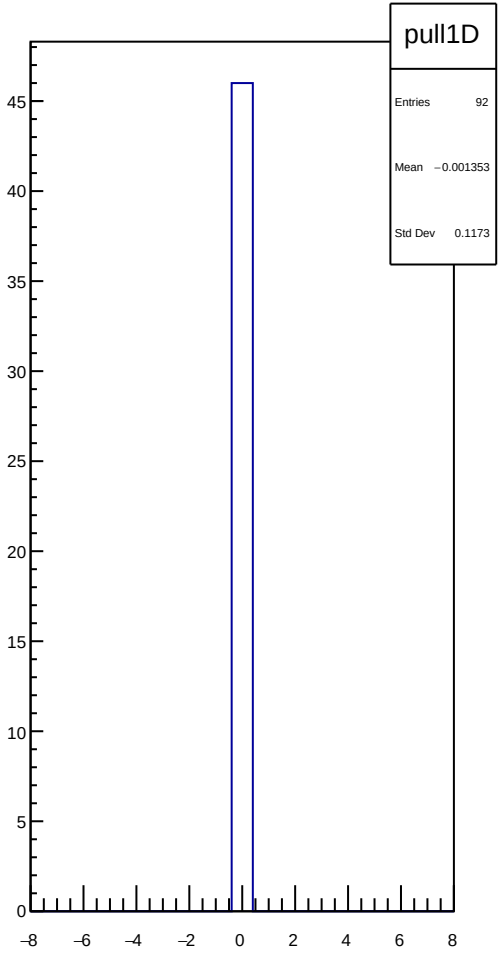

pull1D
Entries 92
Mean −0.006685
Std Dev 0.1747

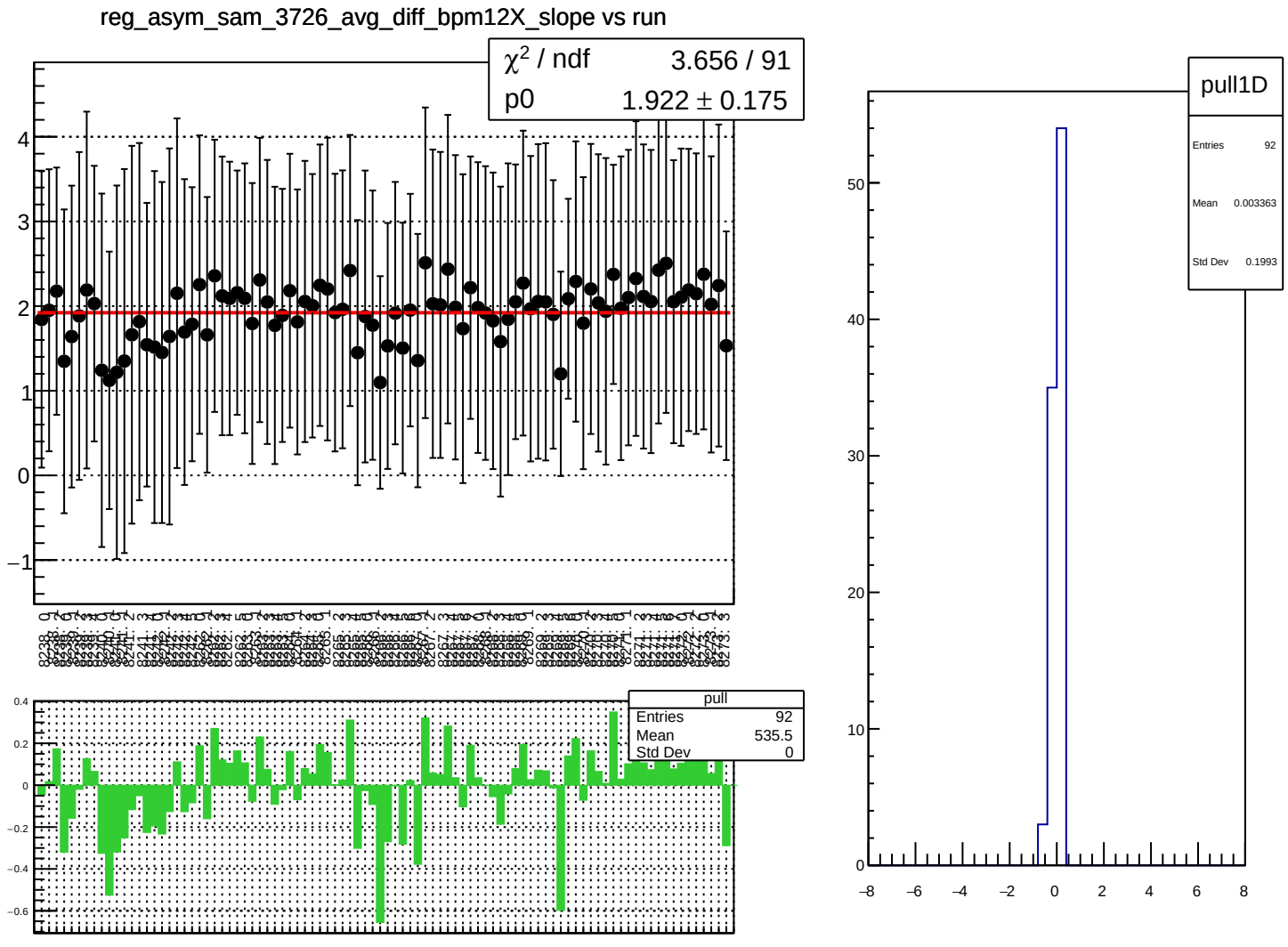

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.245 / 91
p0 −15.13 ± 3.105
pull
Entries 92
Mean 51
Std Dev 91.82

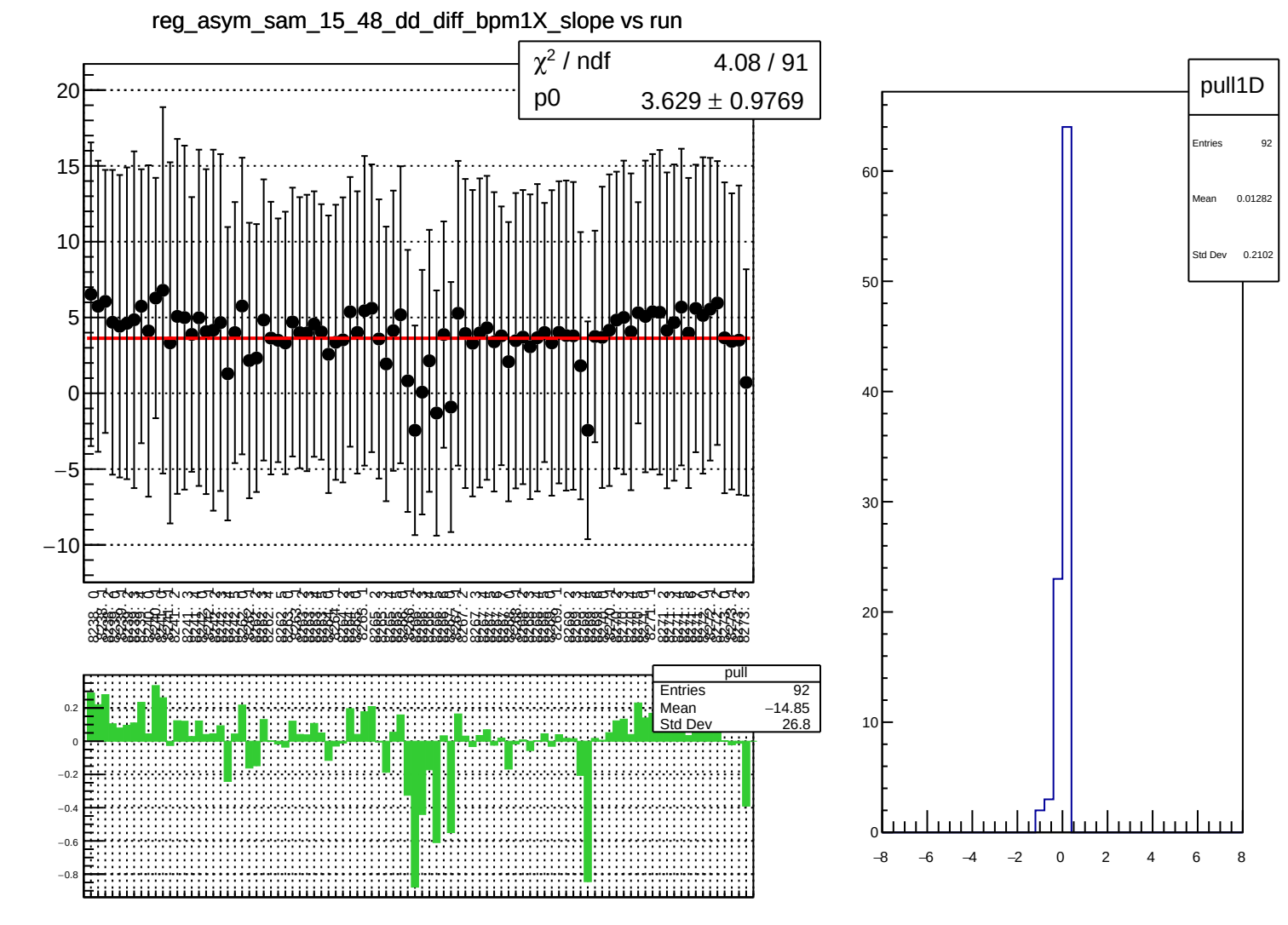

pull1D
Entries 92
Mean 0.001867
Std Dev 0.1163

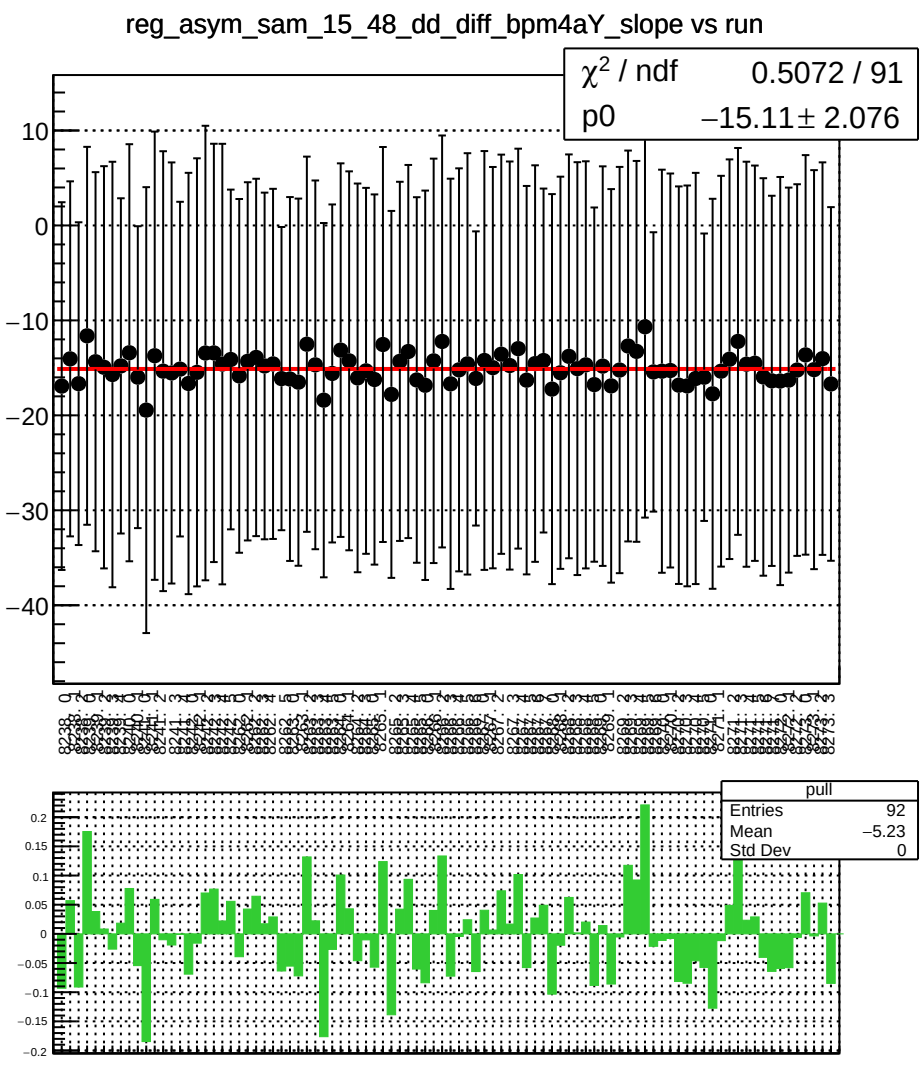

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.514 / 91
p0 −84.18 ± 1.66
−60
−70
−80
−90
−100
−110
pull
Entries 92
Mean −38.07
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 92
Mean 0.01044
Std Dev 0.1952
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

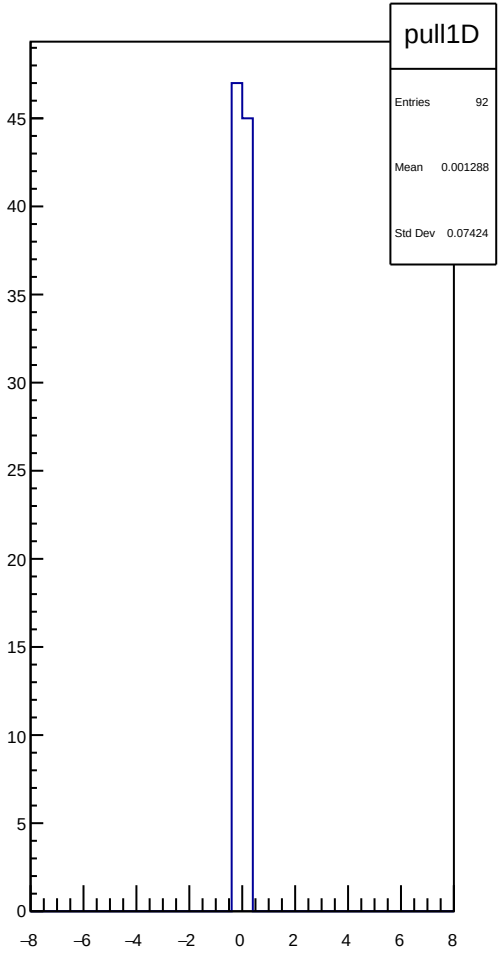

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.265 / 91
p0 −2.024 ± 3.233
pull
Entries 92
Mean 80.96
Std Dev 100

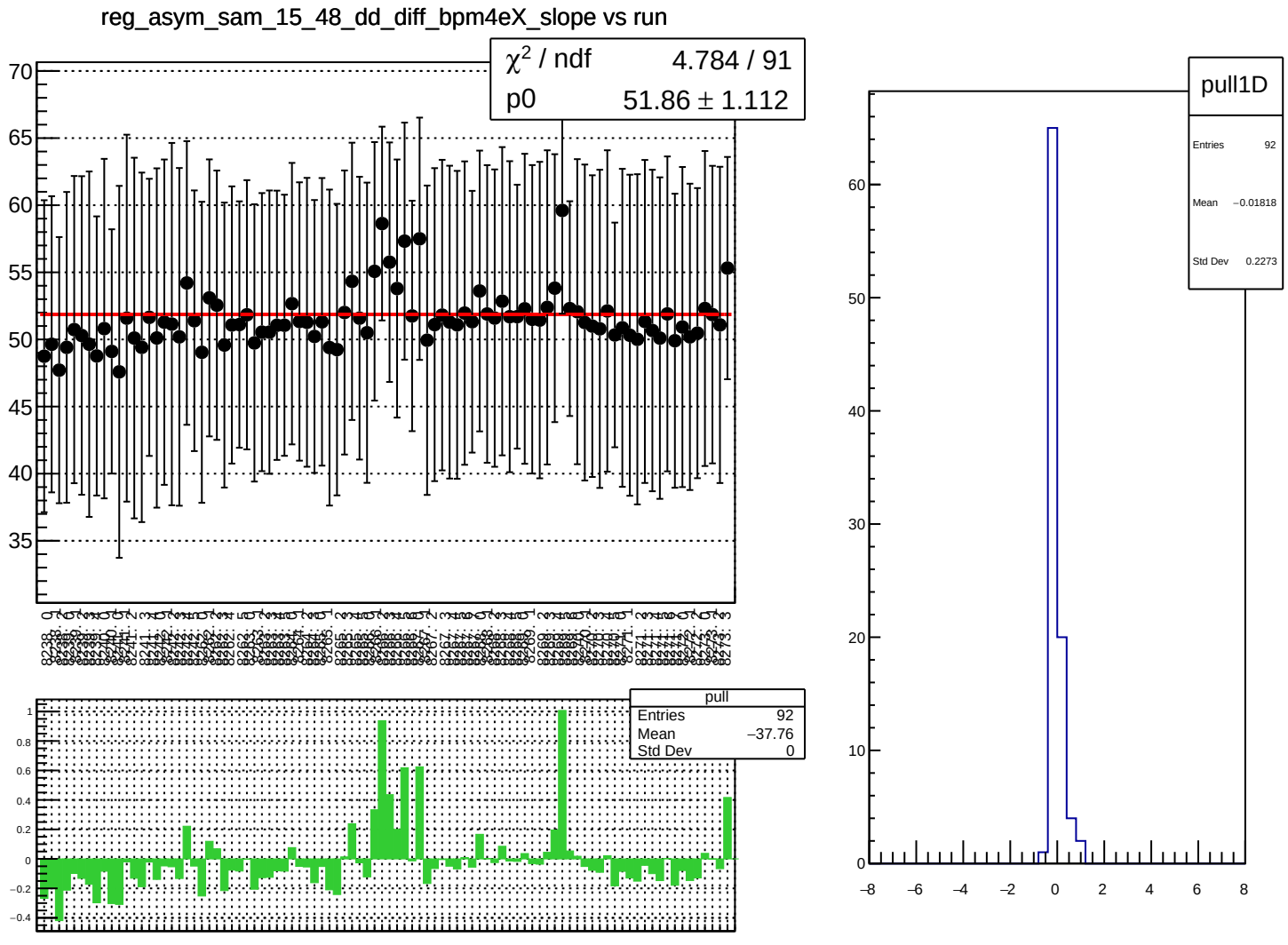

pull1D
Entries 92
Mean −0.001353
Std Dev 0.1173

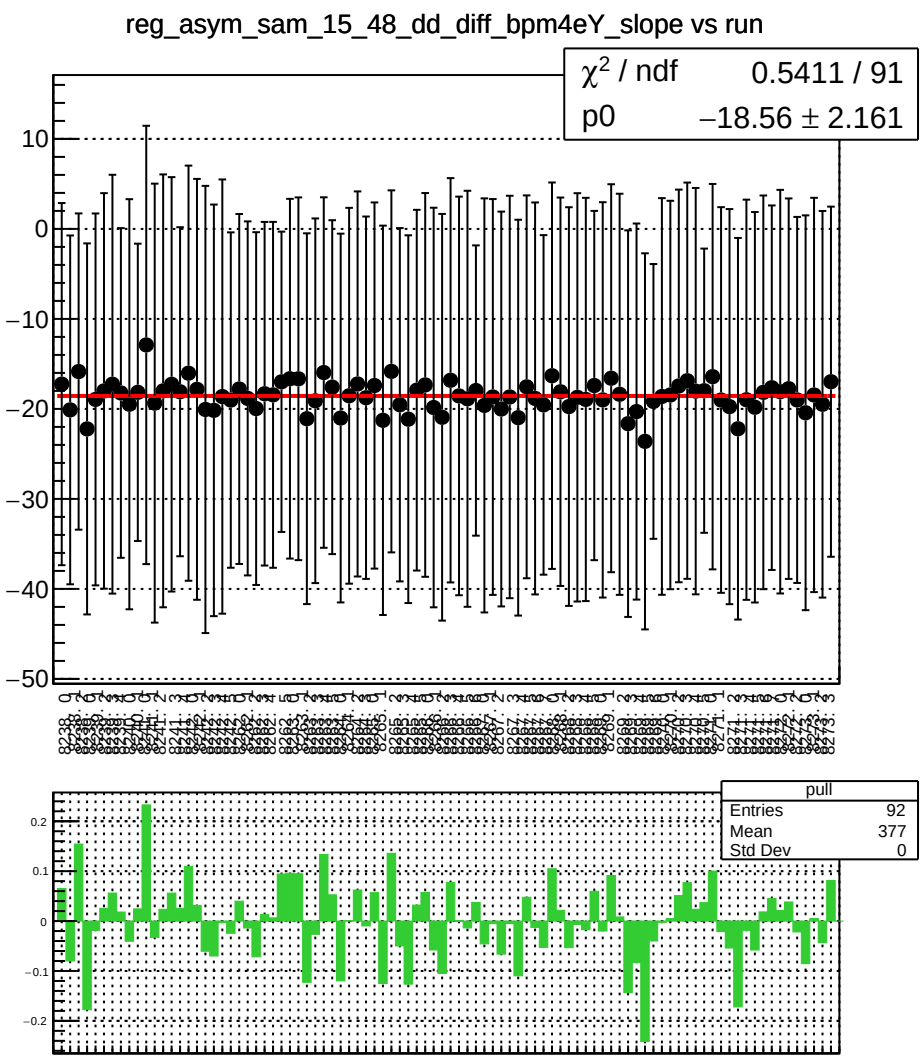

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 3.656 / 91
p0 1.922 ± 0.175
pull
Entries 92
Mean 535.5
Std Dev 0
pull1D
Entries 92
Mean 0.003363
Std Dev 0.1993

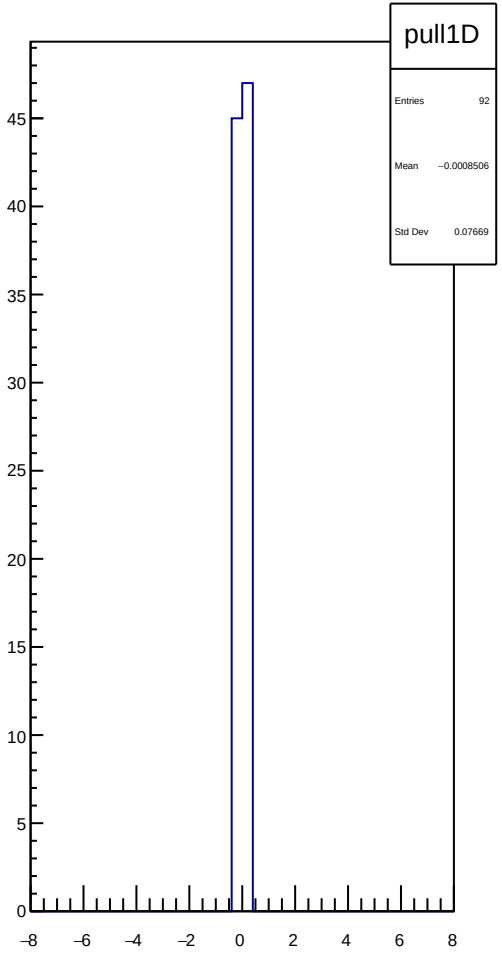

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 4.08 / 91
p0 3.629 ± 0.9769
pull
Entries 92
Mean −14.85
Std Dev 26.8
pull1D
Entries 92
Mean 0.01282
Std Dev 0.2102

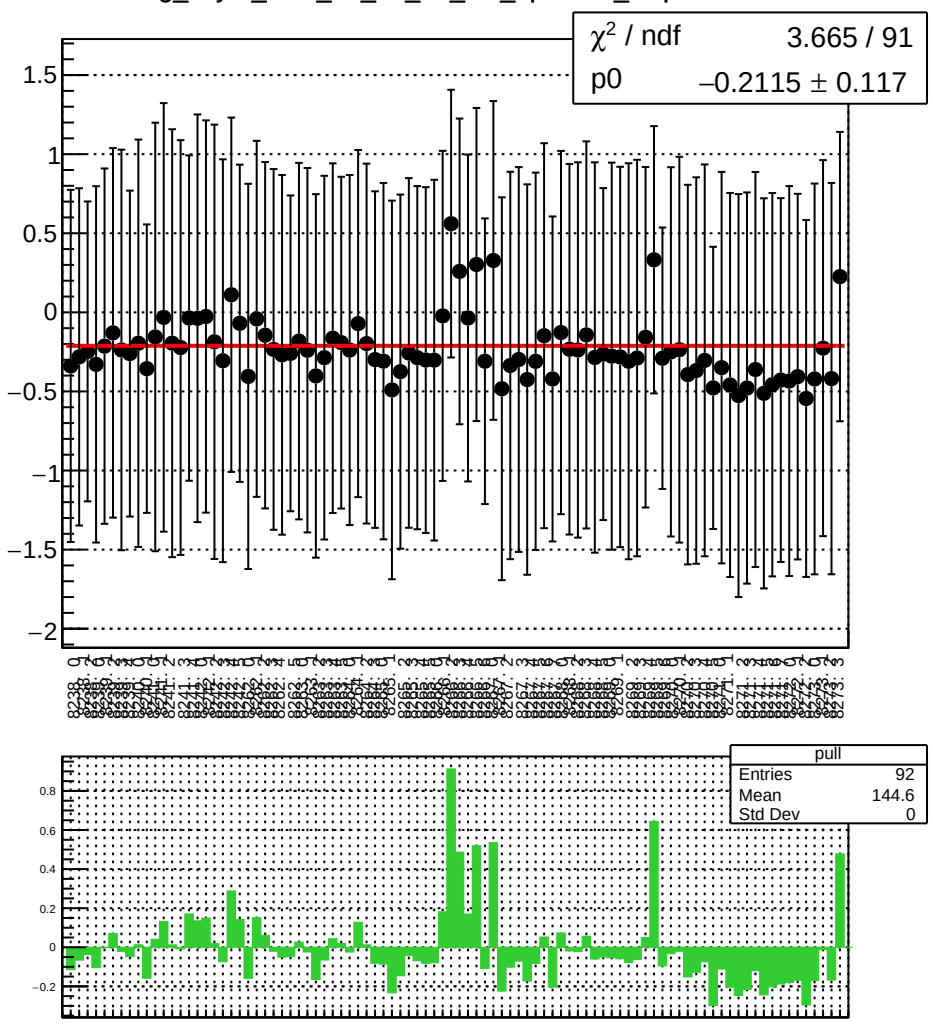

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.5072 / 91
p0 −15.11± 2.076
pull
Entries 92
Mean −5.23
Std Dev 0

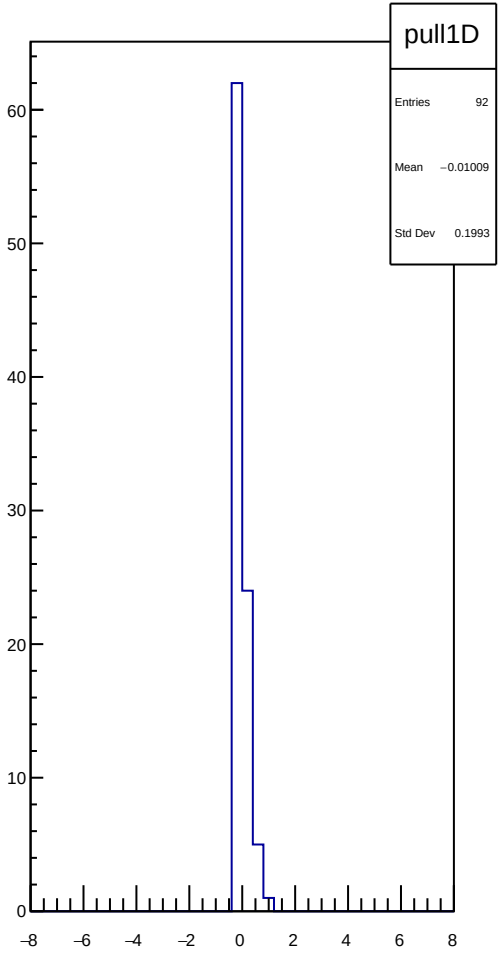

pull1D
Entries 92
Mean 0.001288
Std Dev 0.07424

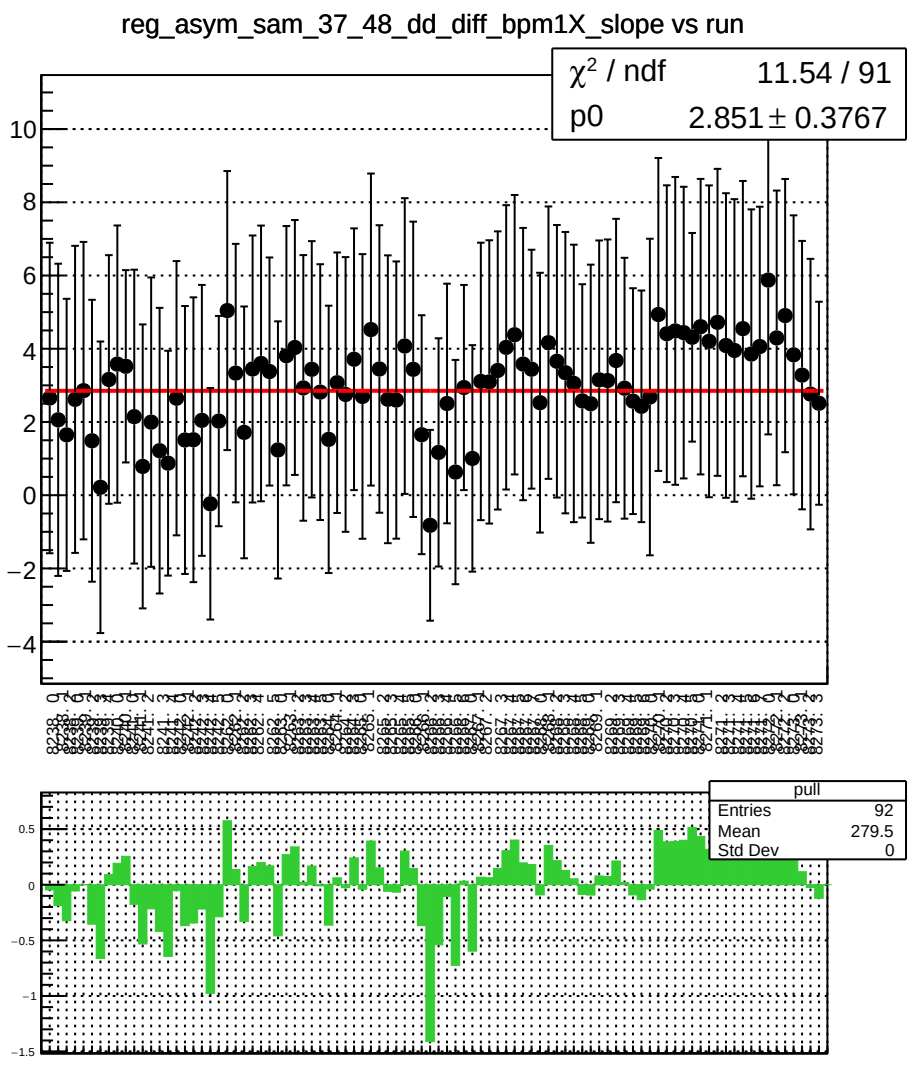

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.784 / 91
p0 51.86 ± 1.112
pull
Entries 92
Mean −37.76
Std Dev 0
pull1D
Entries 92
Mean −0.01818
Std Dev 0.2273

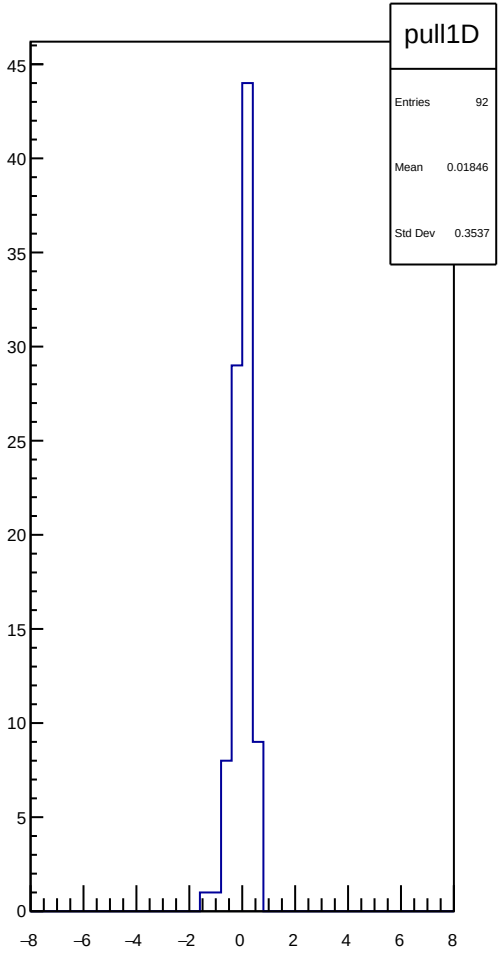

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.5411 / 91
p0 −18.56 ± 2.161
pull
Entries 92
Mean 377
Std Dev 0

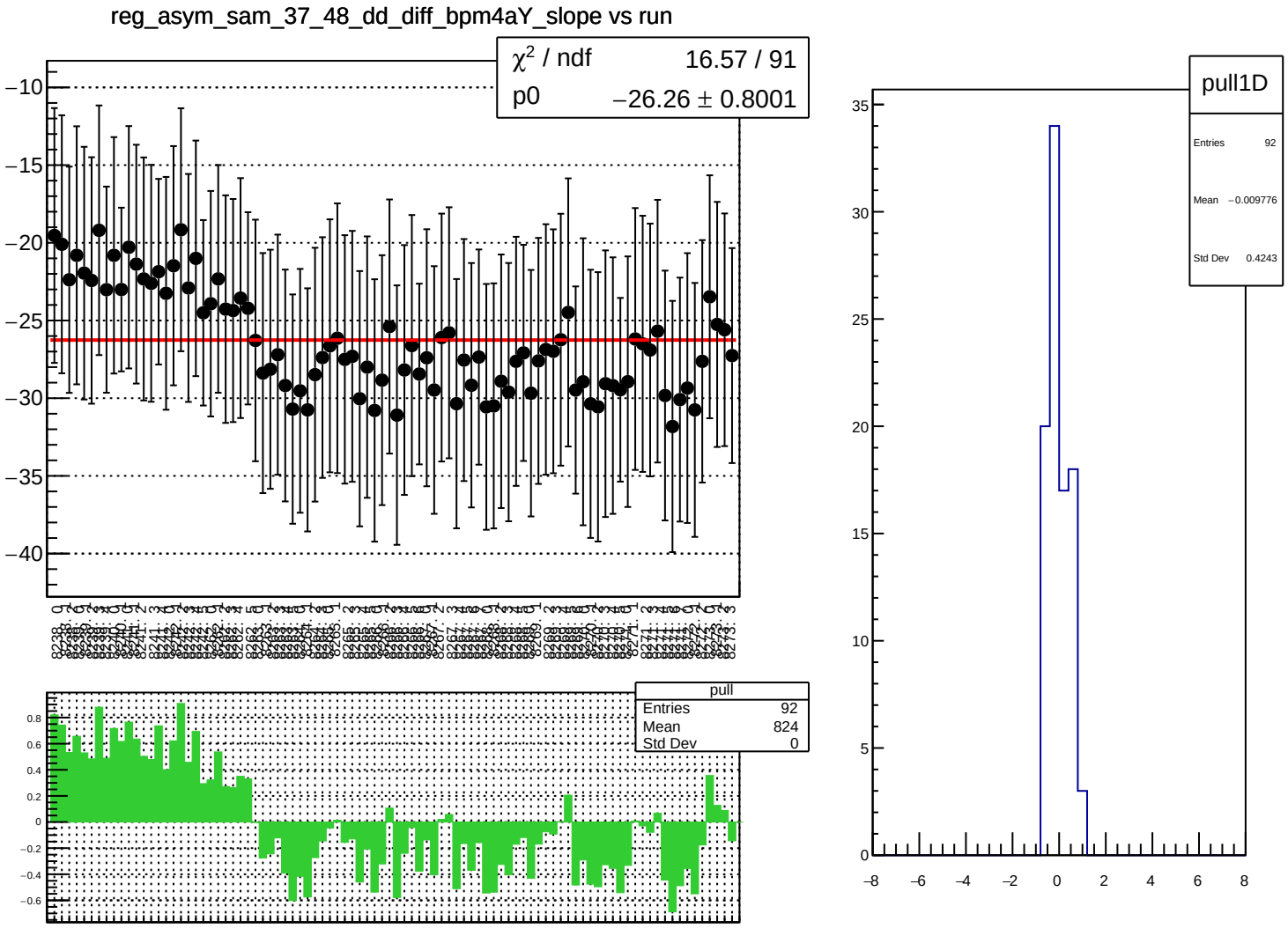

pull1D
Entries 92
Mean −0.0008506
Std Dev 0.07669

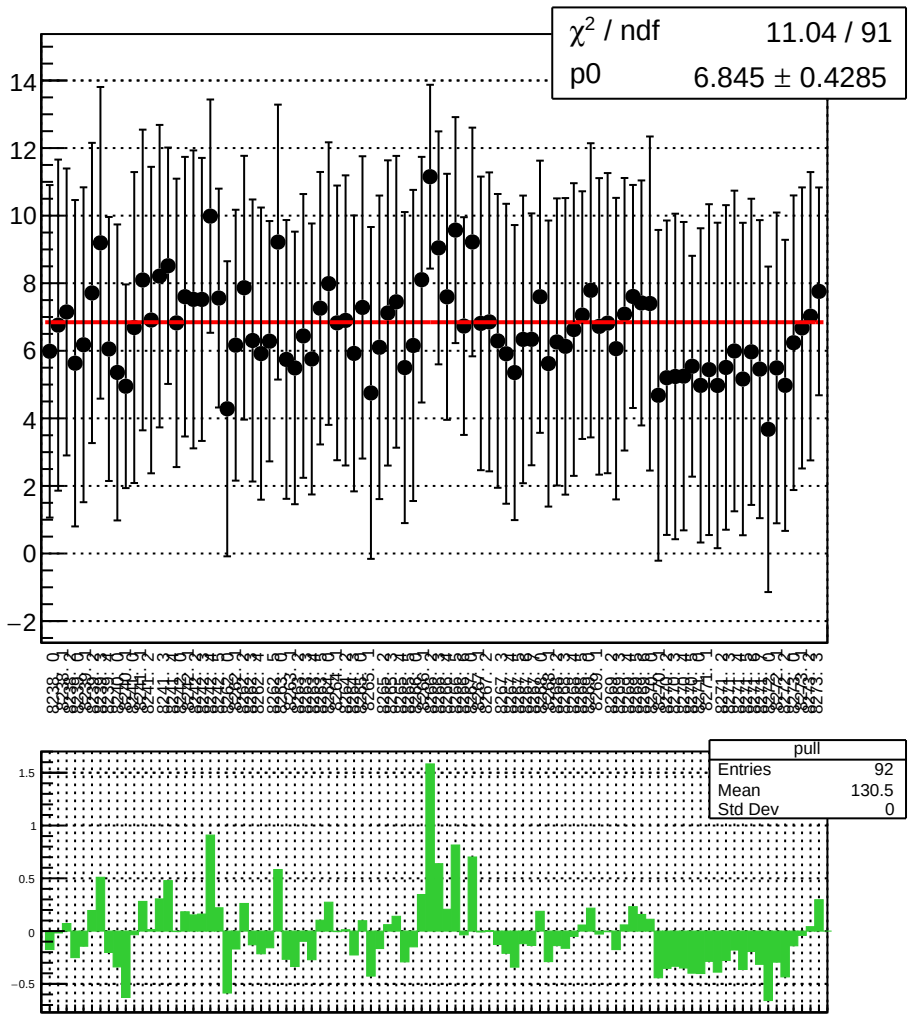

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 3.665 / 91
p0 −0.2115 ± 0.117
pull
Entries 92
Mean 144.6
Std Dev 0

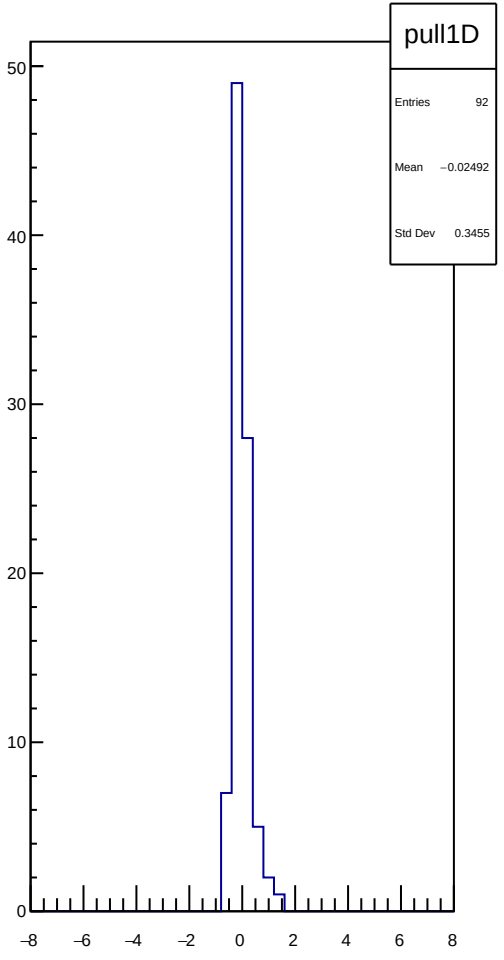

pull1D
Entries 92
Mean −0.01009
Std Dev 0.1993

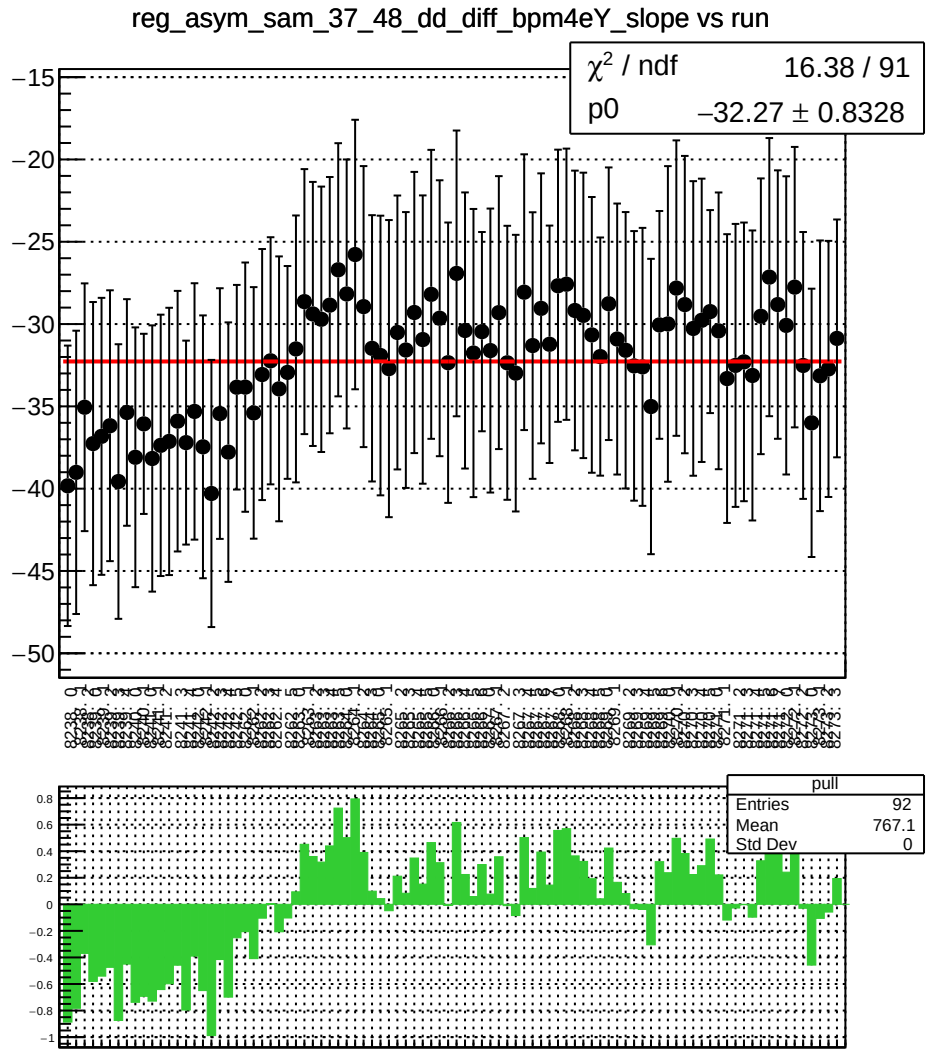

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 11.54 / 91
p0 2.851 ± 0.3767
pull
Entries 92
Mean 279.5
Std Dev 0

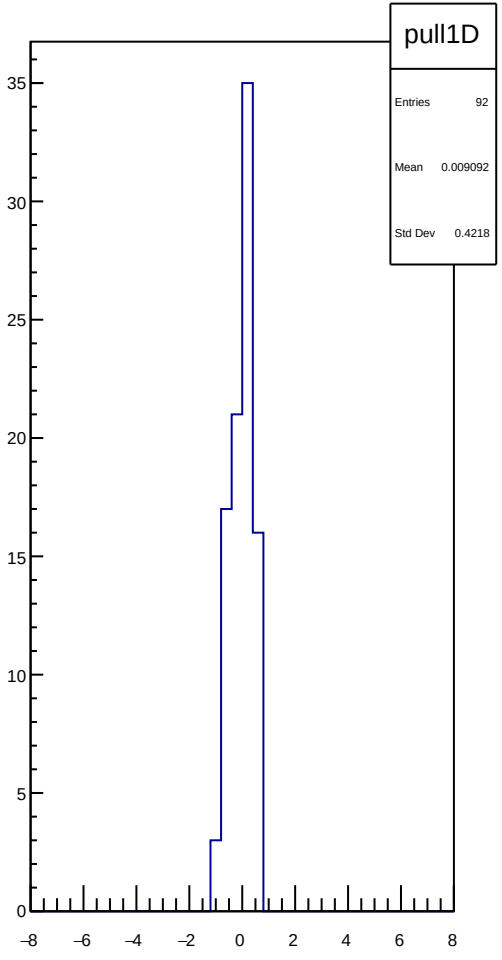

pull1D
Entries 92
Mean 0.01846
Std Dev 0.3537

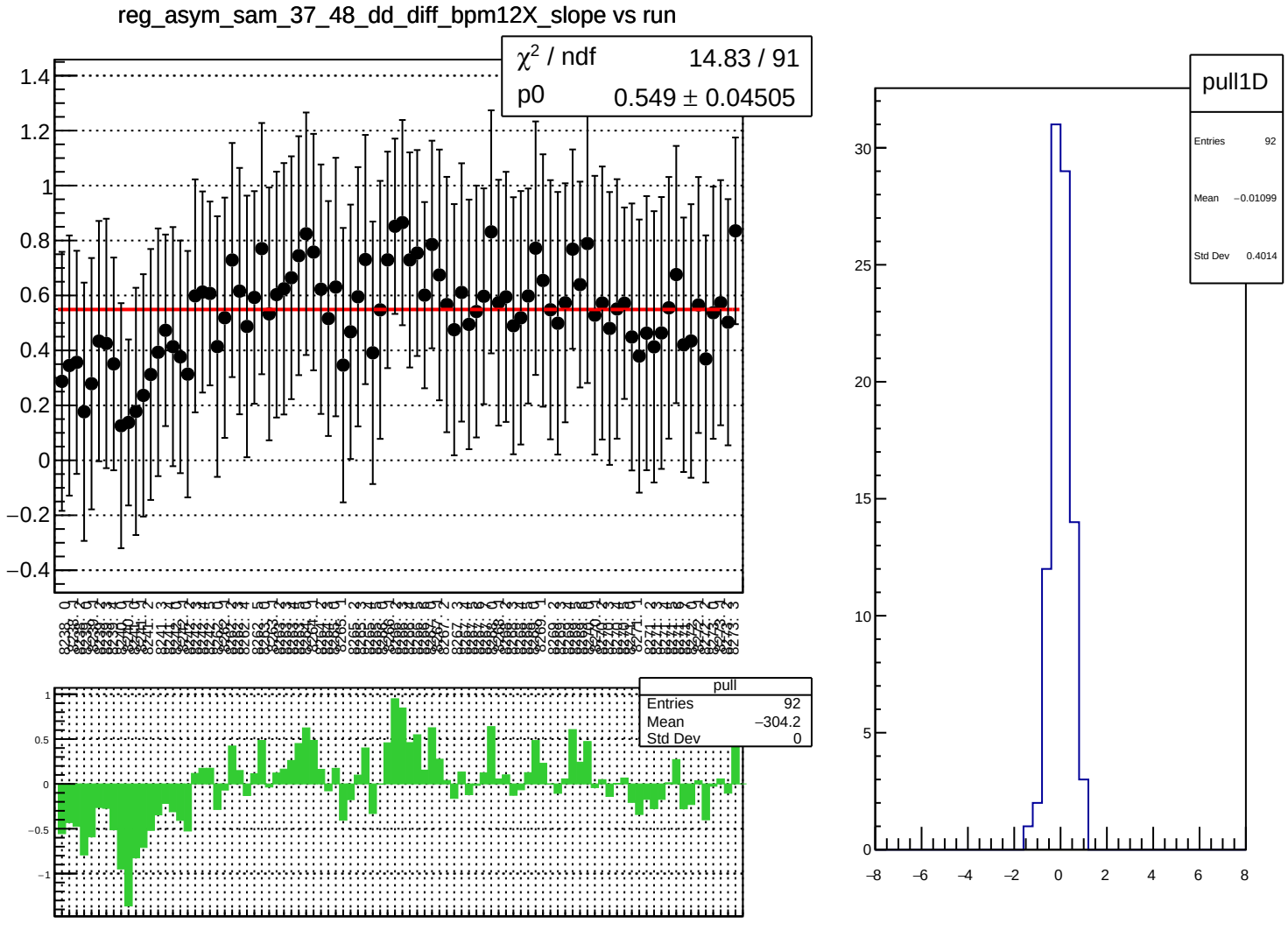

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.57 / 91
p0 −26.26 ± 0.8001
pull
Entries 92
Mean 824
Std Dev 0
pull1D
Entries 92
Mean −0.009776
Std Dev 0.4243

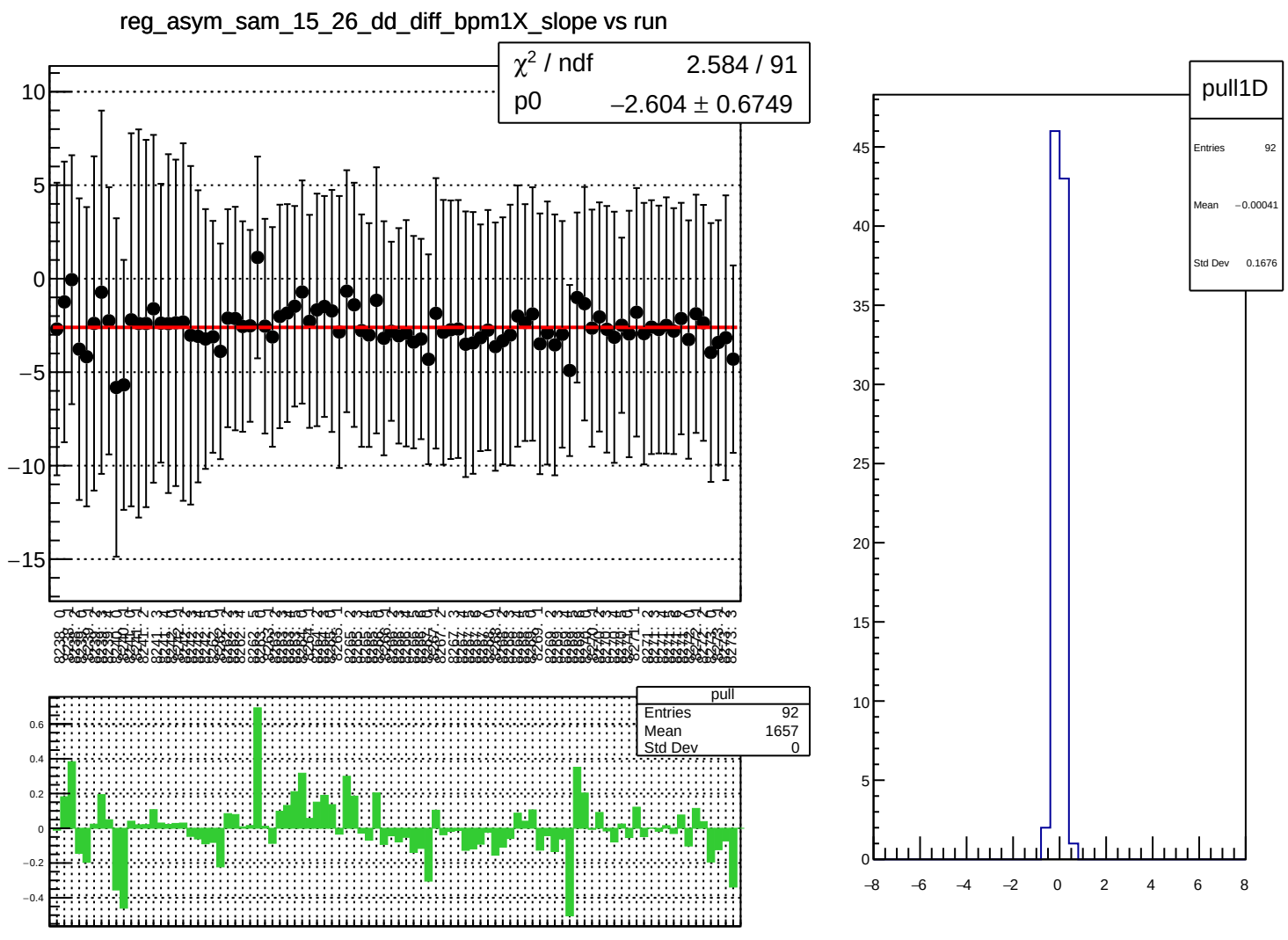

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.04 / 91
p0 6.845 ± 0.4285
pull
Entries 92
Mean 130.5
Std Dev 0

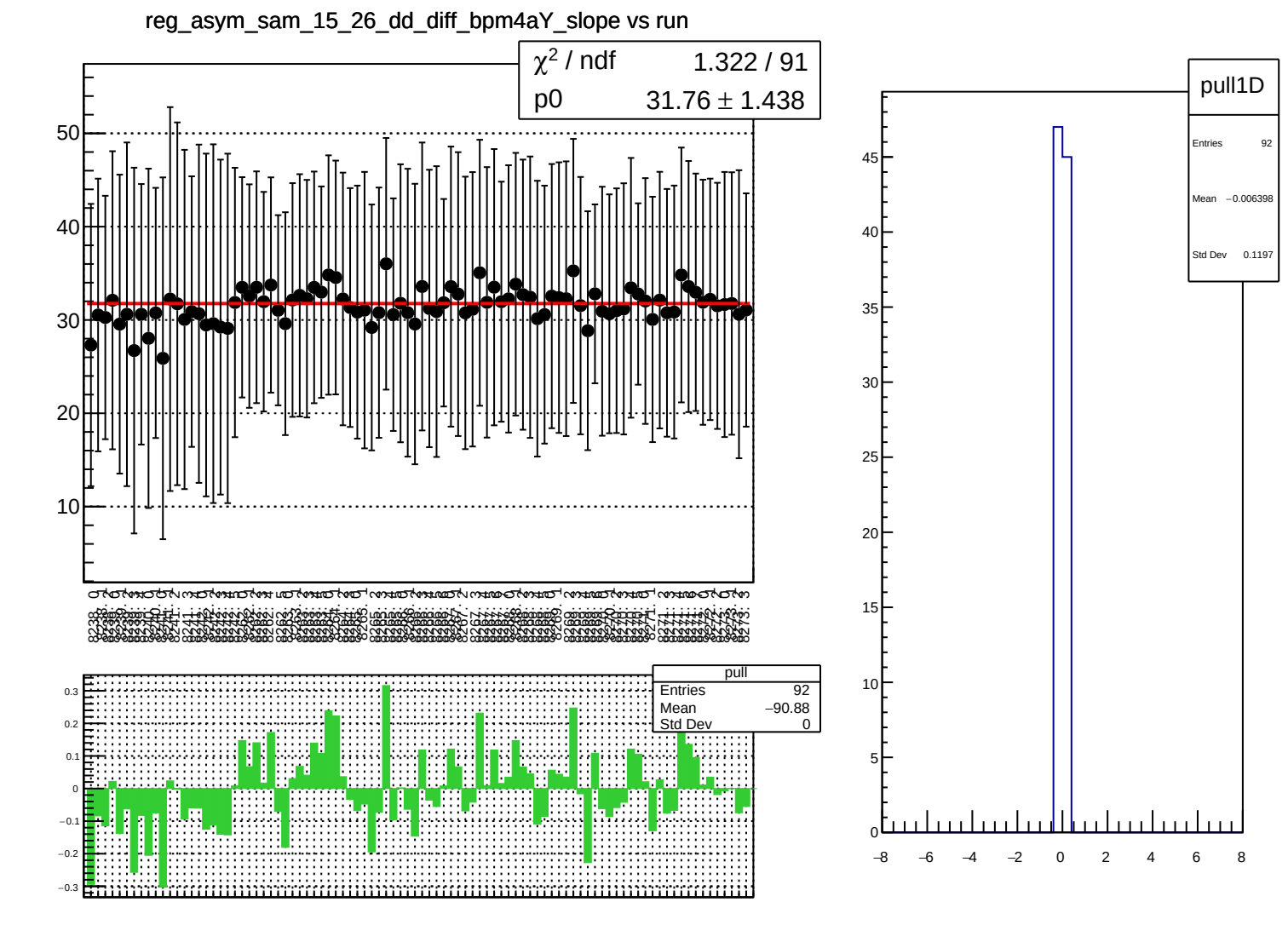

pull1D
Entries 92
Mean −0.02492
Std Dev 0.3455

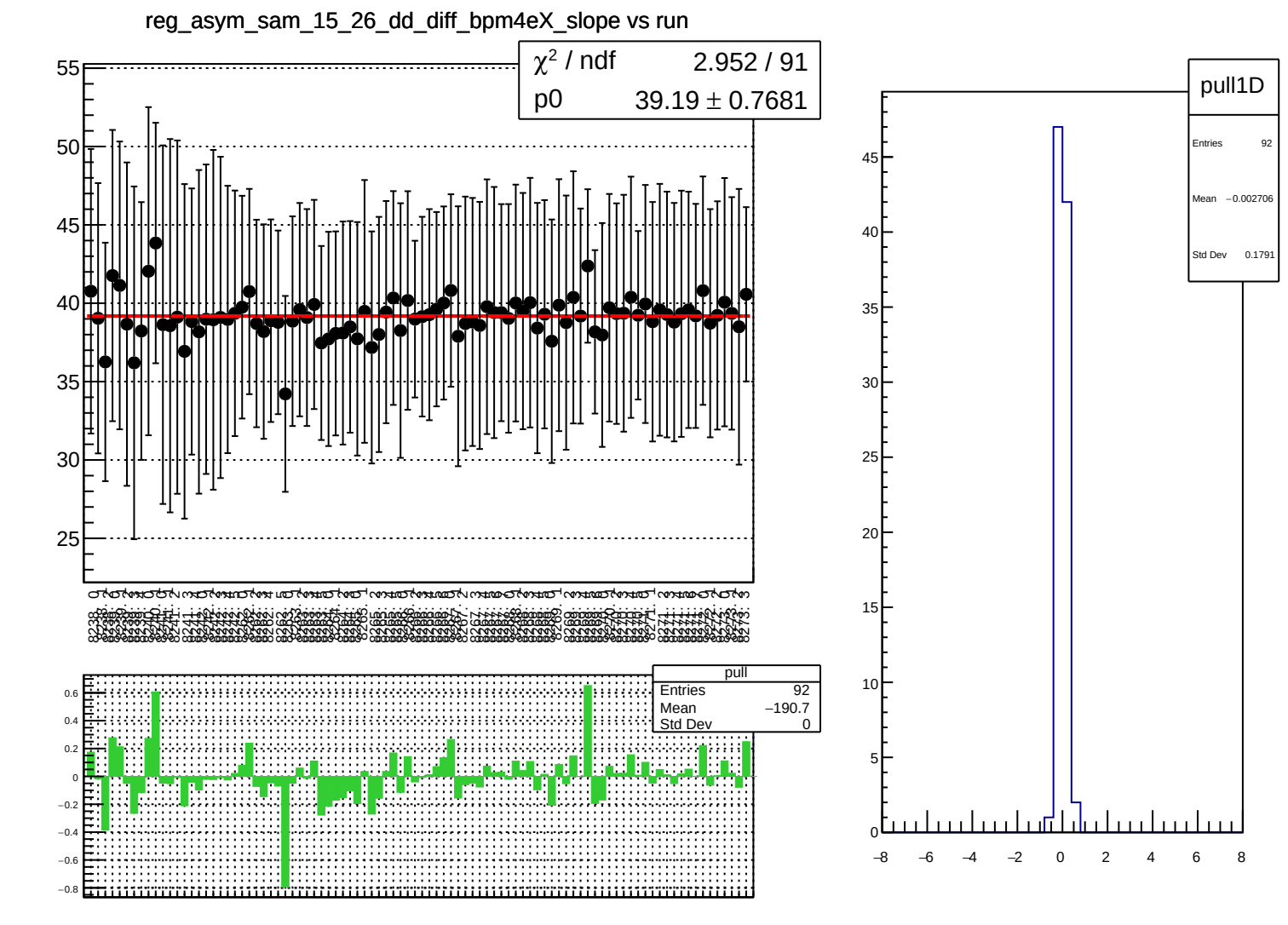

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.38 / 91
p0 −32.27 ± 0.8328
pull
Entries 92
Mean 767.1
Std Dev 0

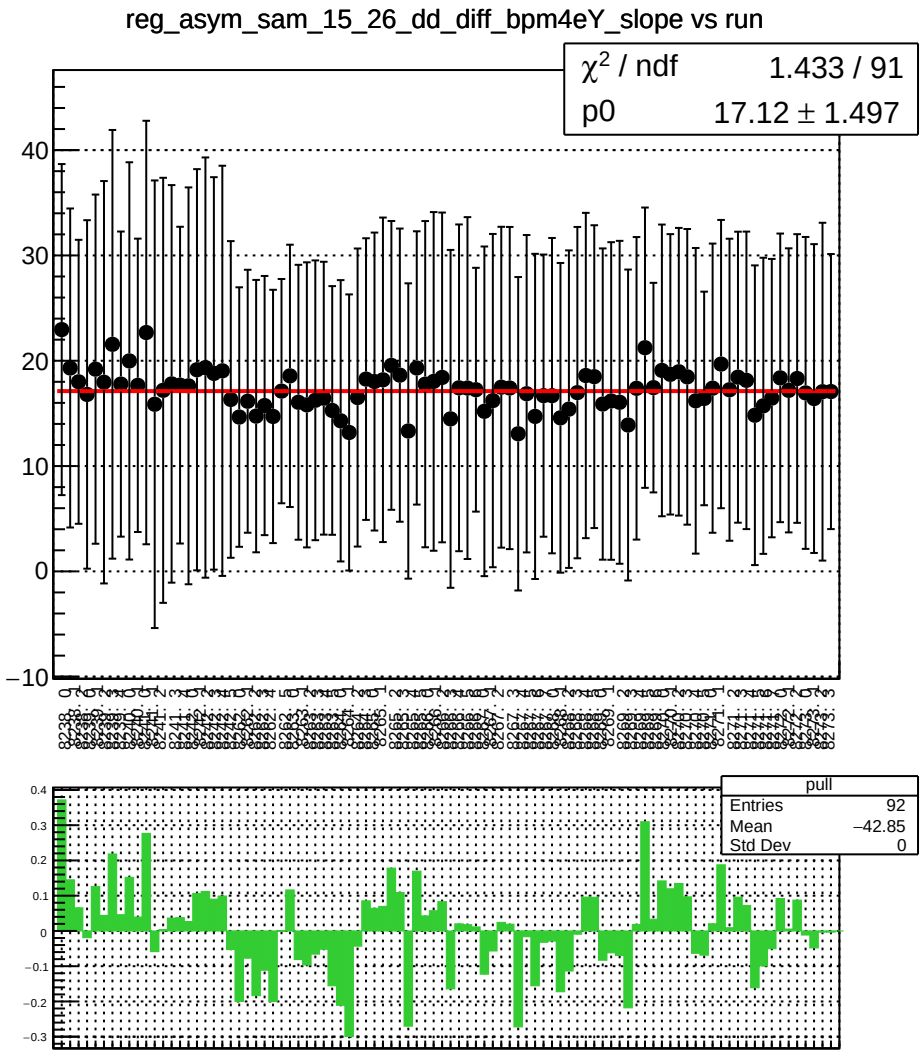

pull1D
Entries 92
Mean 0.009092
Std Dev 0.4218

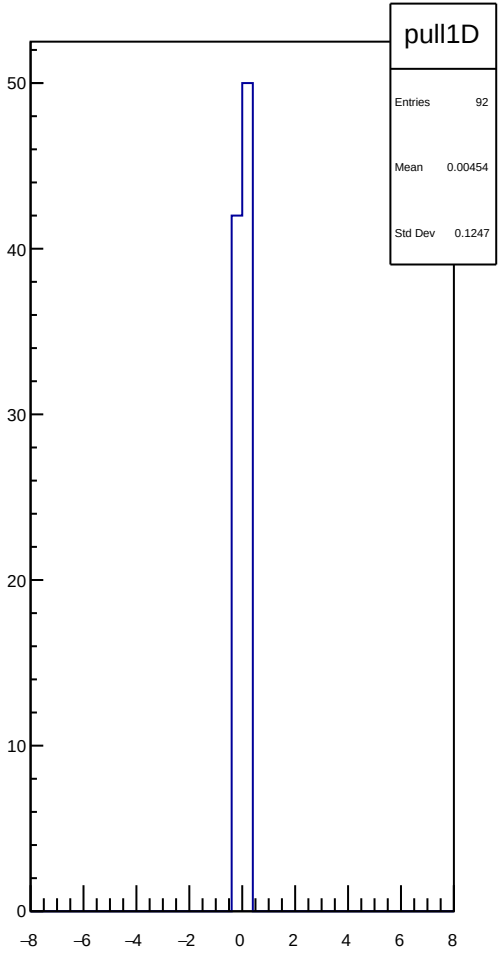

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 14.83 / 91
p0 0.549 ± 0.04505
pull
Entries 92
Mean −304.2
Std Dev 0
pull1D
Entries 92
Mean −0.01099
Std Dev 0.4014

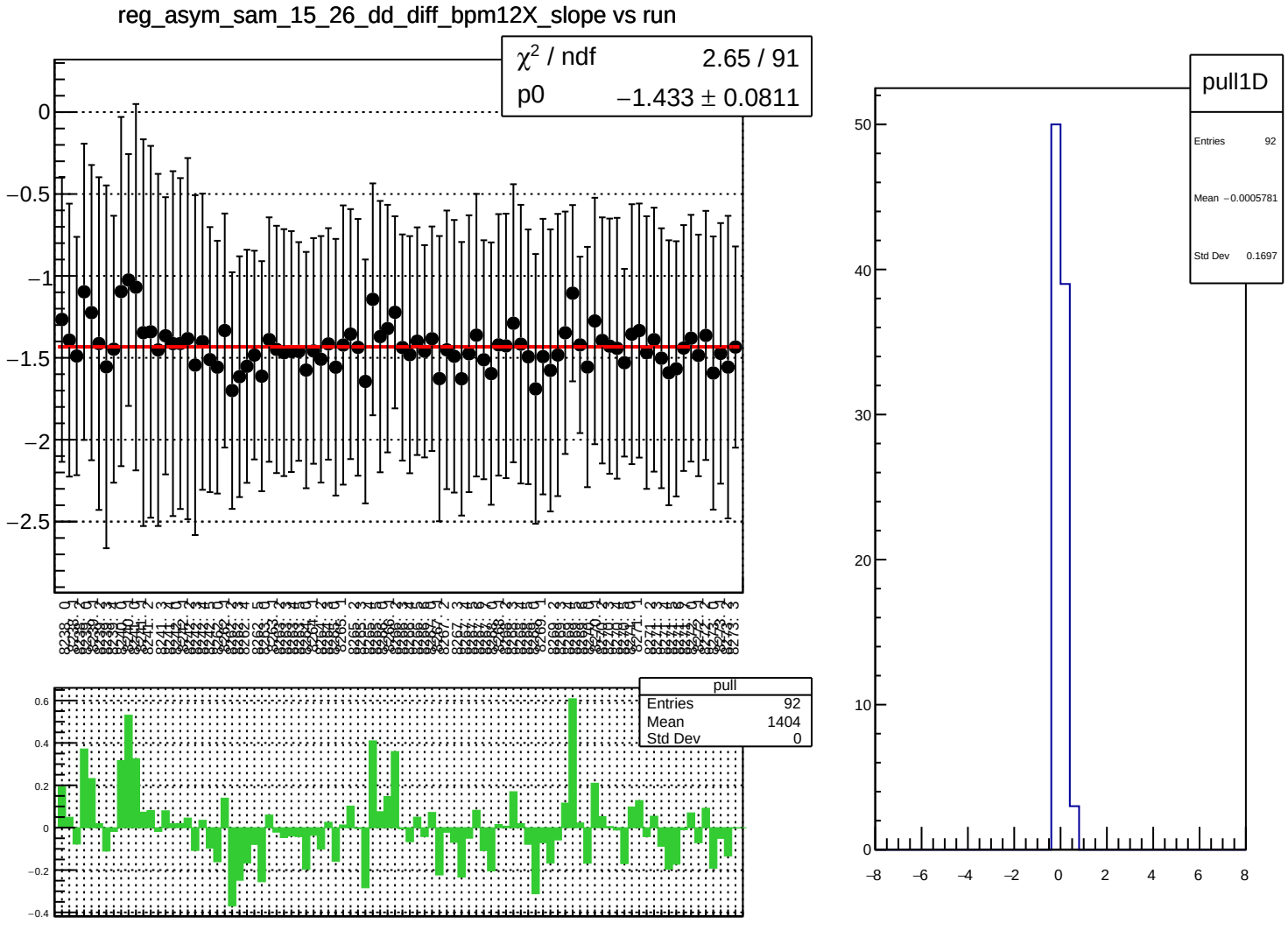

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 2.584 / 91
p0 −2.604 ± 0.6749
pull
Entries 92
Mean 1657
Std Dev 0
pull1D
Entries 92
Mean −0.00041
Std Dev 0.1676

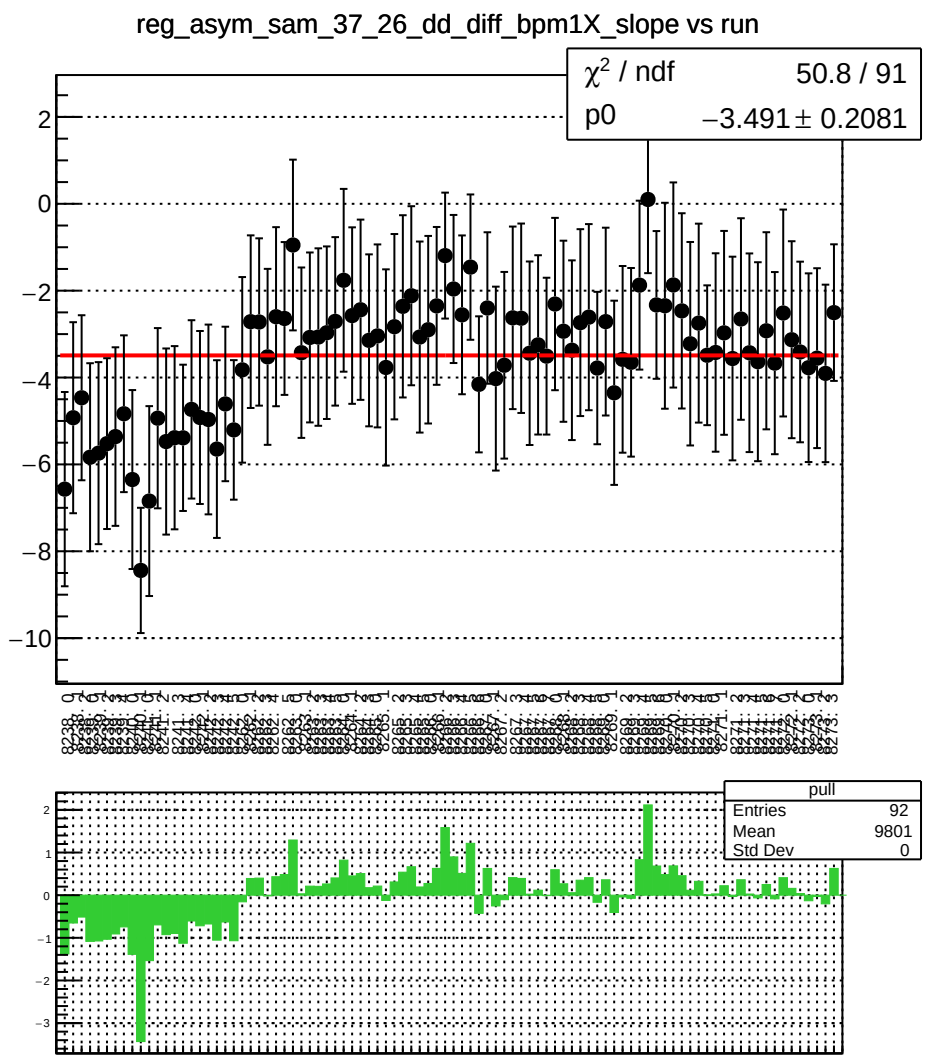

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.322 / 91
p0 31.76 ± 1.438
pull
Entries 92
Mean −90.88
Std Dev 0
pull1D
Entries 92
Mean −0.006398
Std Dev 0.1197

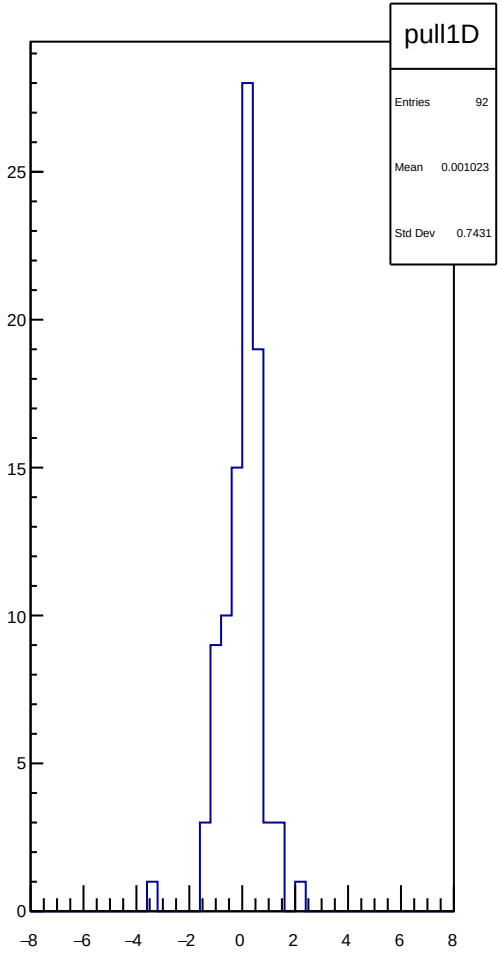

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.952 / 91
p0 39.19 ± 0.7681
pull
Entries 92
Mean −190.7
Std Dev 0
pull1D
Entries 92
Mean −0.002706
Std Dev 0.1791

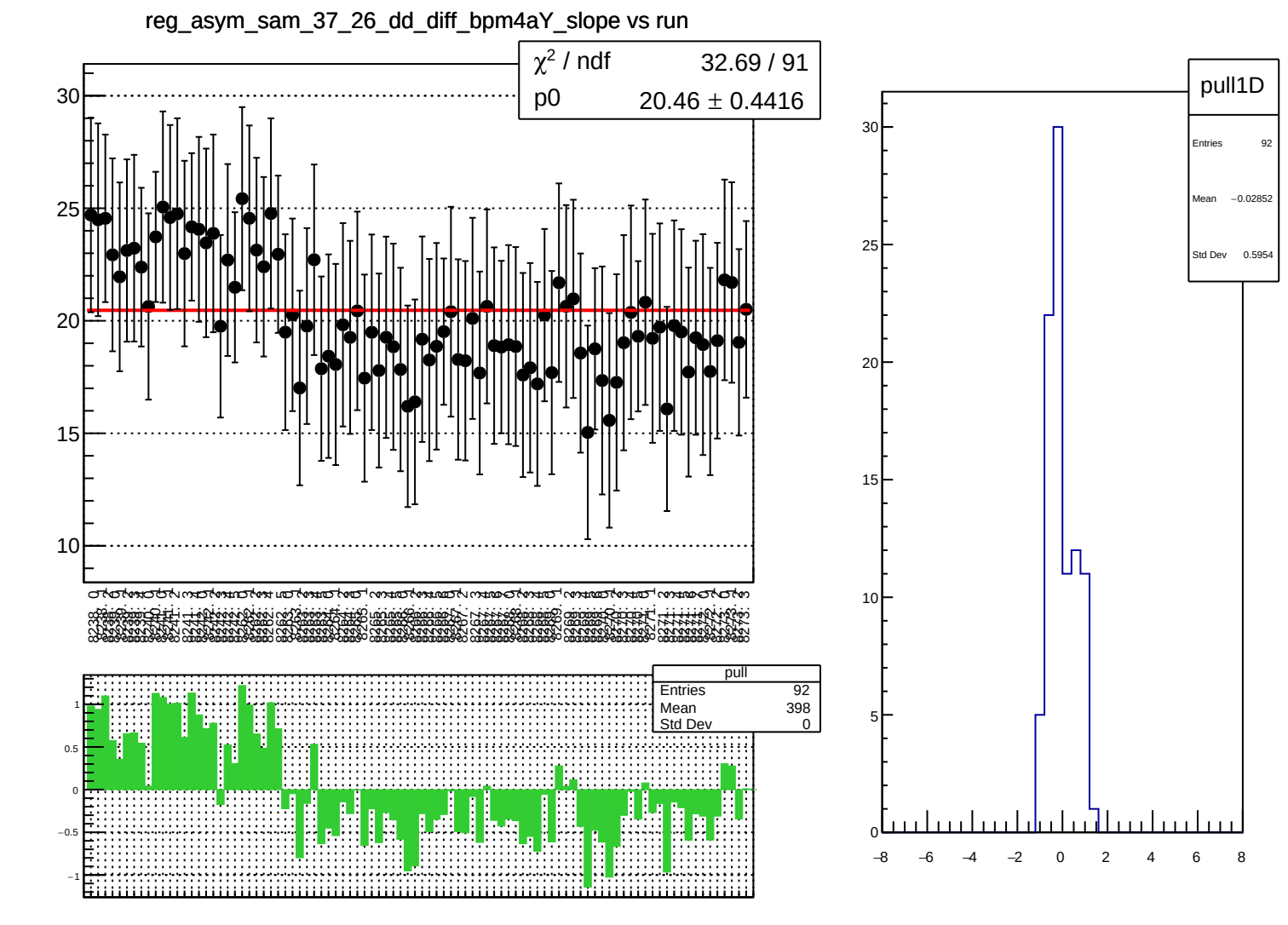

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.433 / 91
p0 17.12 ± 1.497
pull
Entries 92
Mean −42.85
Std Dev 0

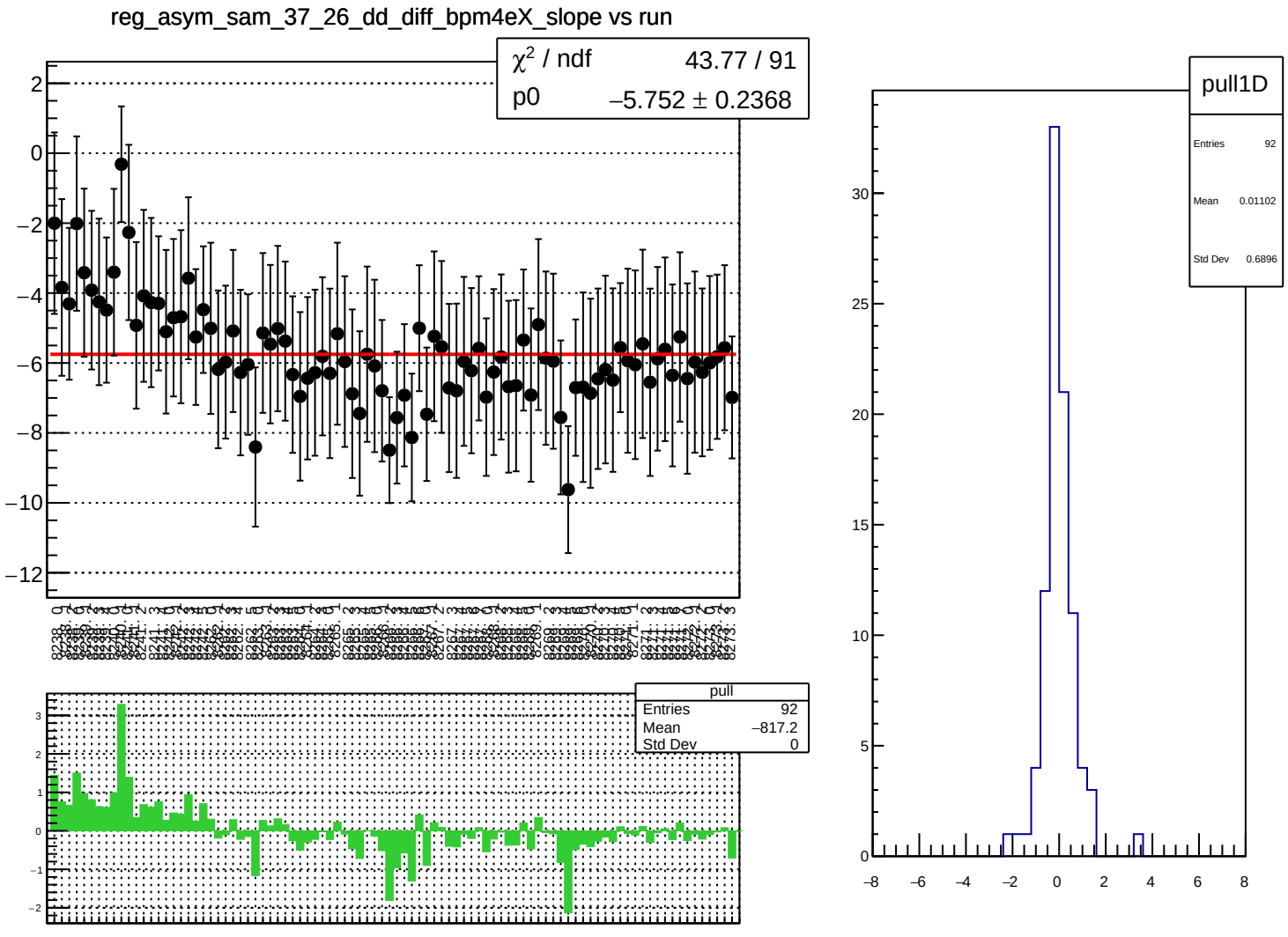

pull1D
Entries 92
Mean 0.00454
Std Dev 0.1247

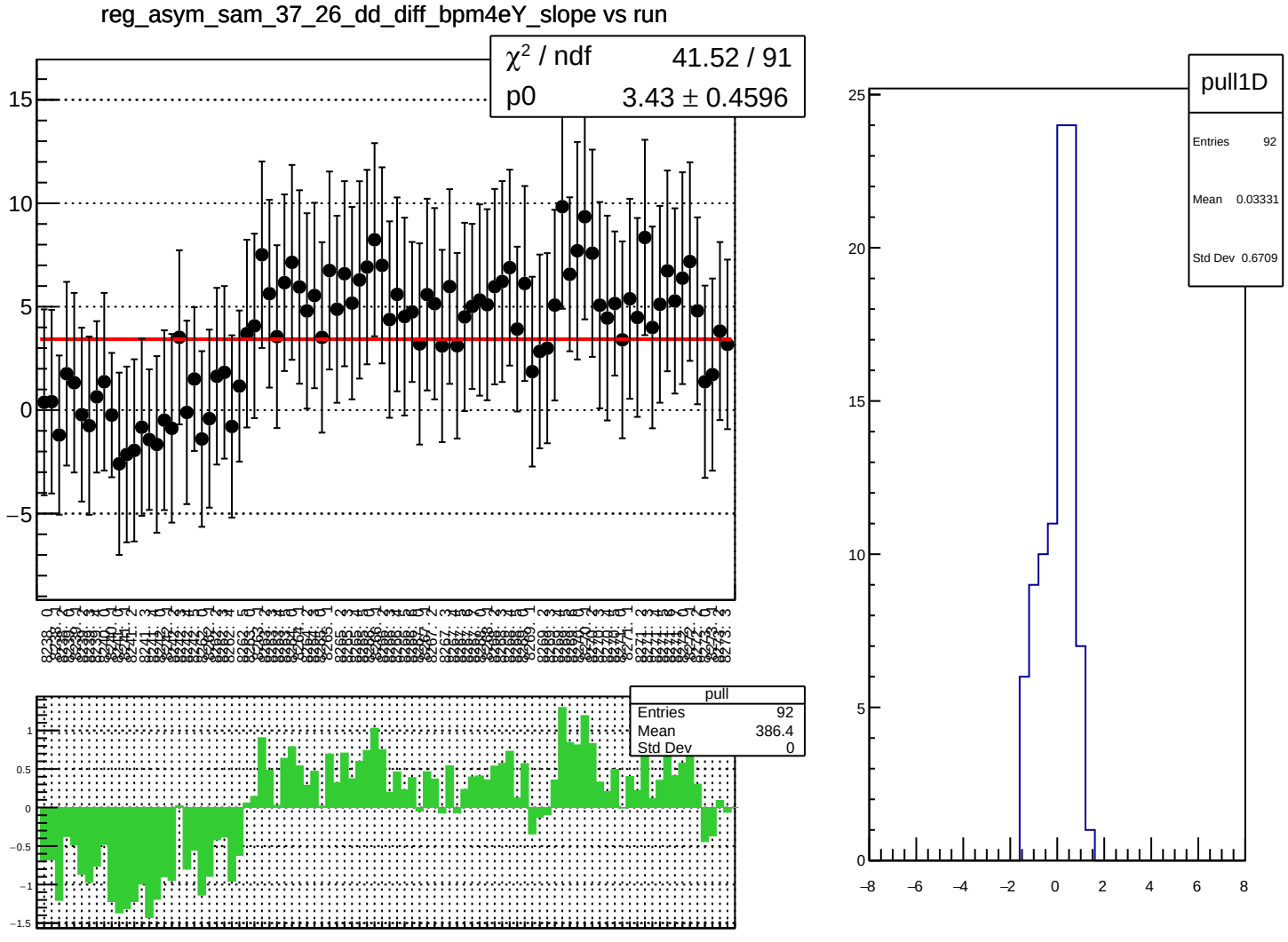

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 2.65 / 91
p0 −1.433 ± 0.0811
pull
Entries 92
Mean 1404
Std Dev 0
pull1D
Entries 92
Mean −0.0005781
Std Dev 0.1697

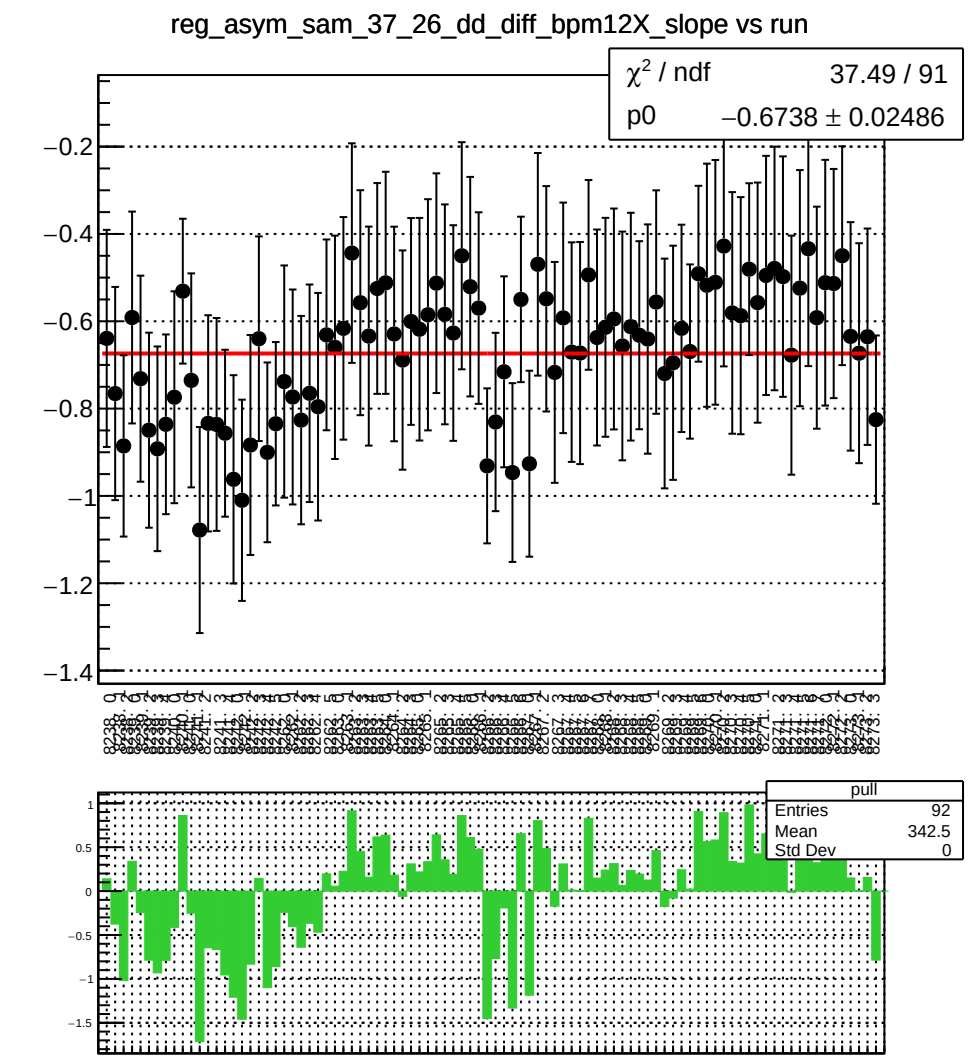

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 50.8 / 91
p0 −3.491 ± 0.2081
pull
Entries 92
Mean 9801
Std Dev 0

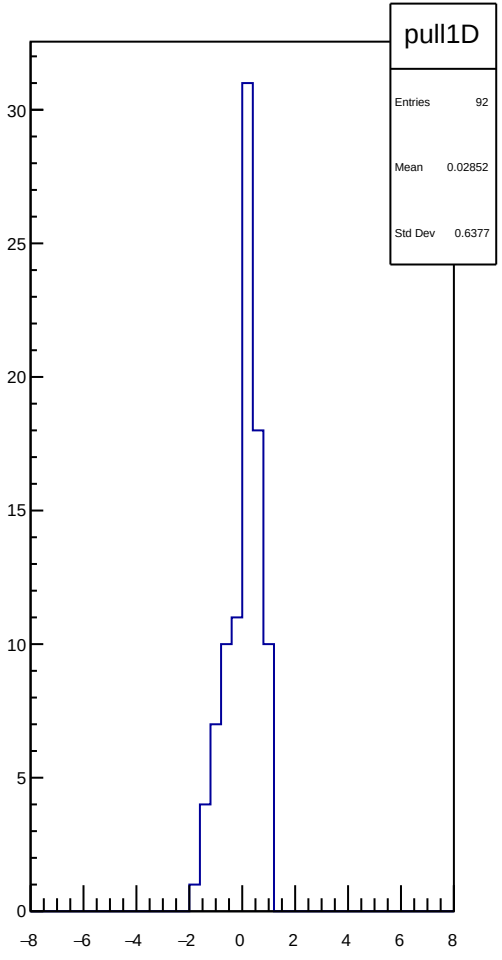

pull1D
Entries 92
Mean 0.001023
Std Dev 0.7431

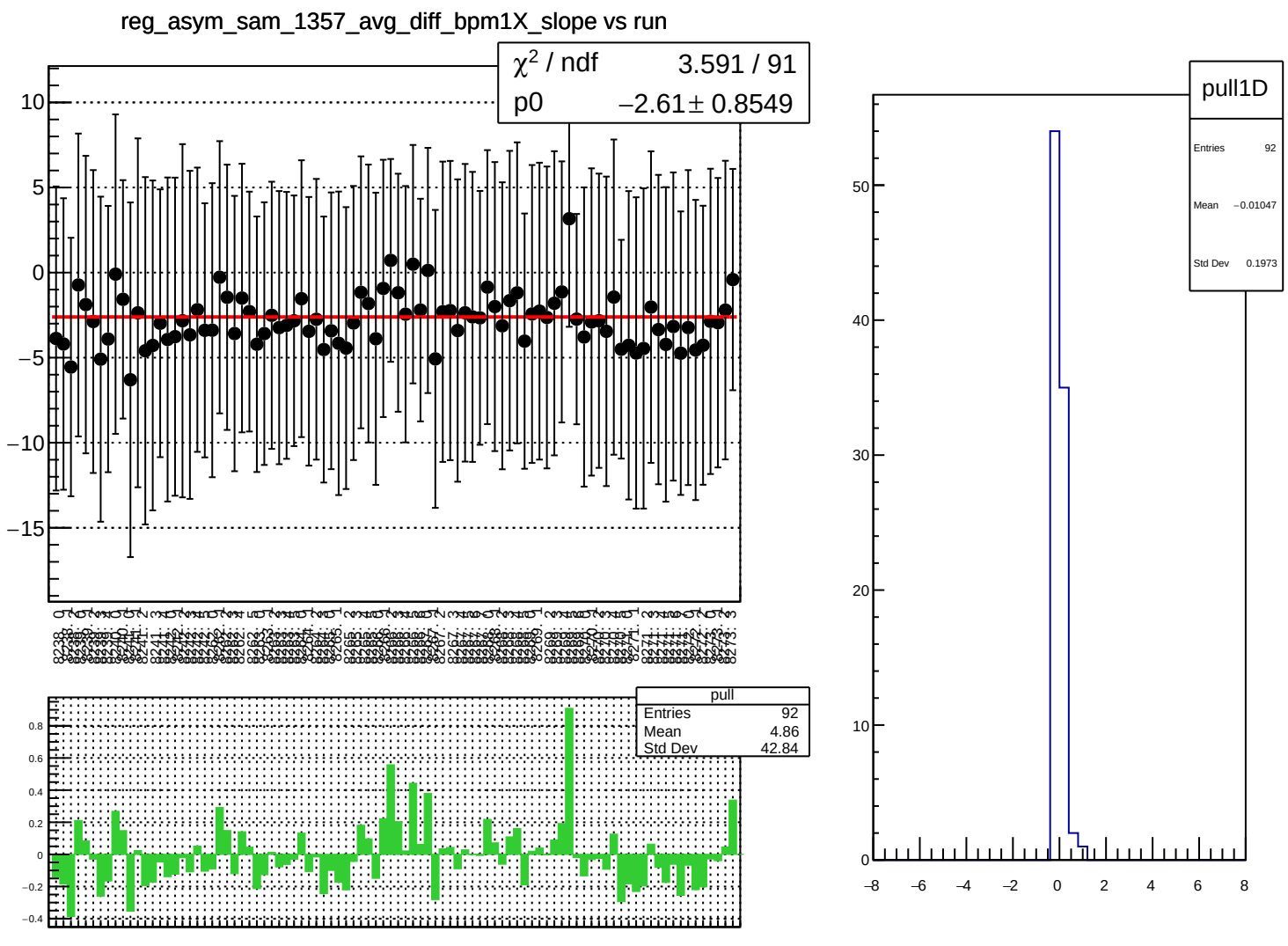

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.69 / 91
p0 20.46 ± 0.4416
pull
Entries 92
Mean 398
Std Dev 0
pull1D
Entries 92
Mean −0.02852
Std Dev 0.5954

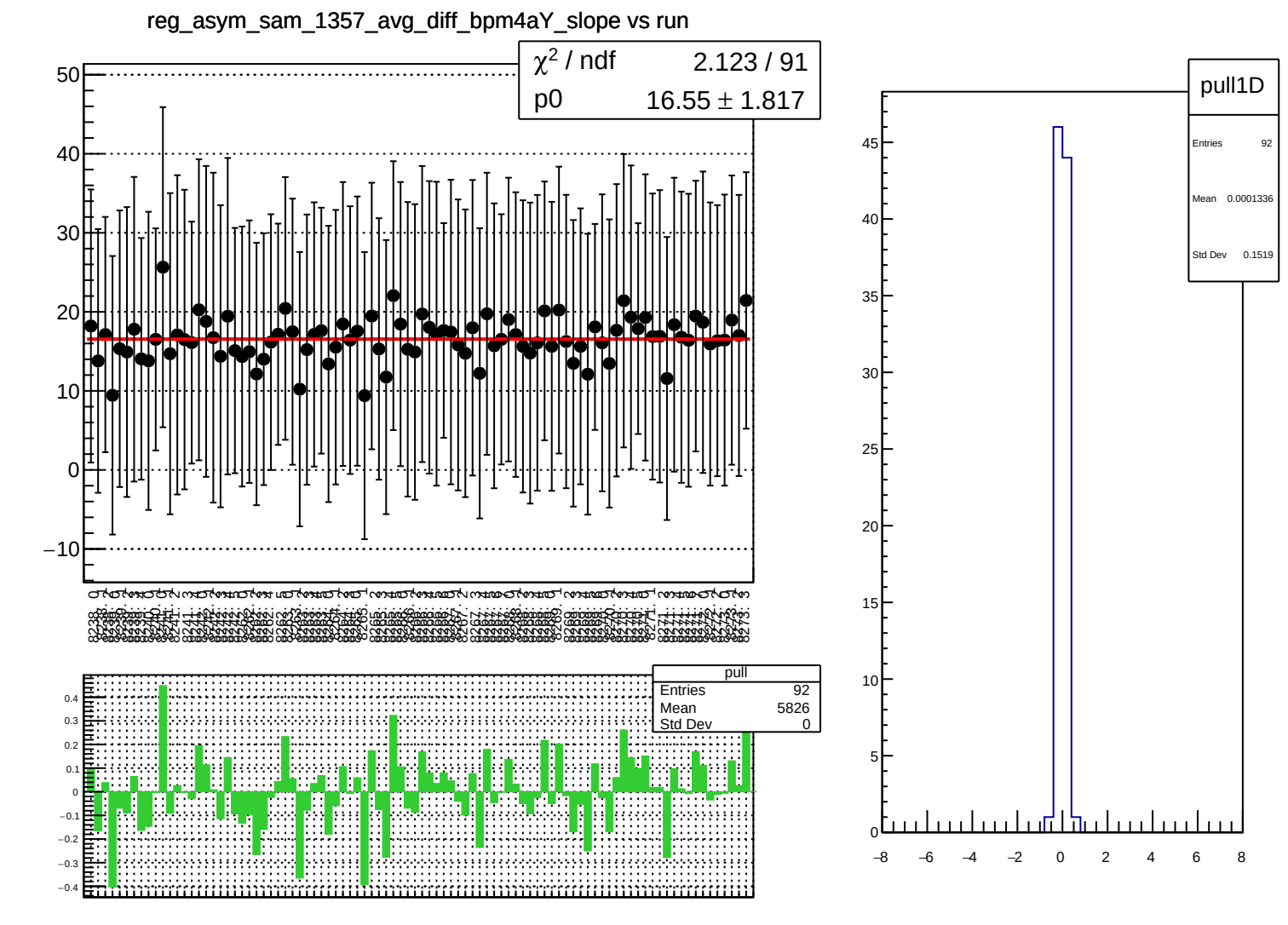

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.77 / 91
p0 −5.752 ± 0.2368
pull
Entries 92
Mean −817.2
Std Dev 0
pull1D
Entries 92
Mean 0.01102
Std Dev 0.6896

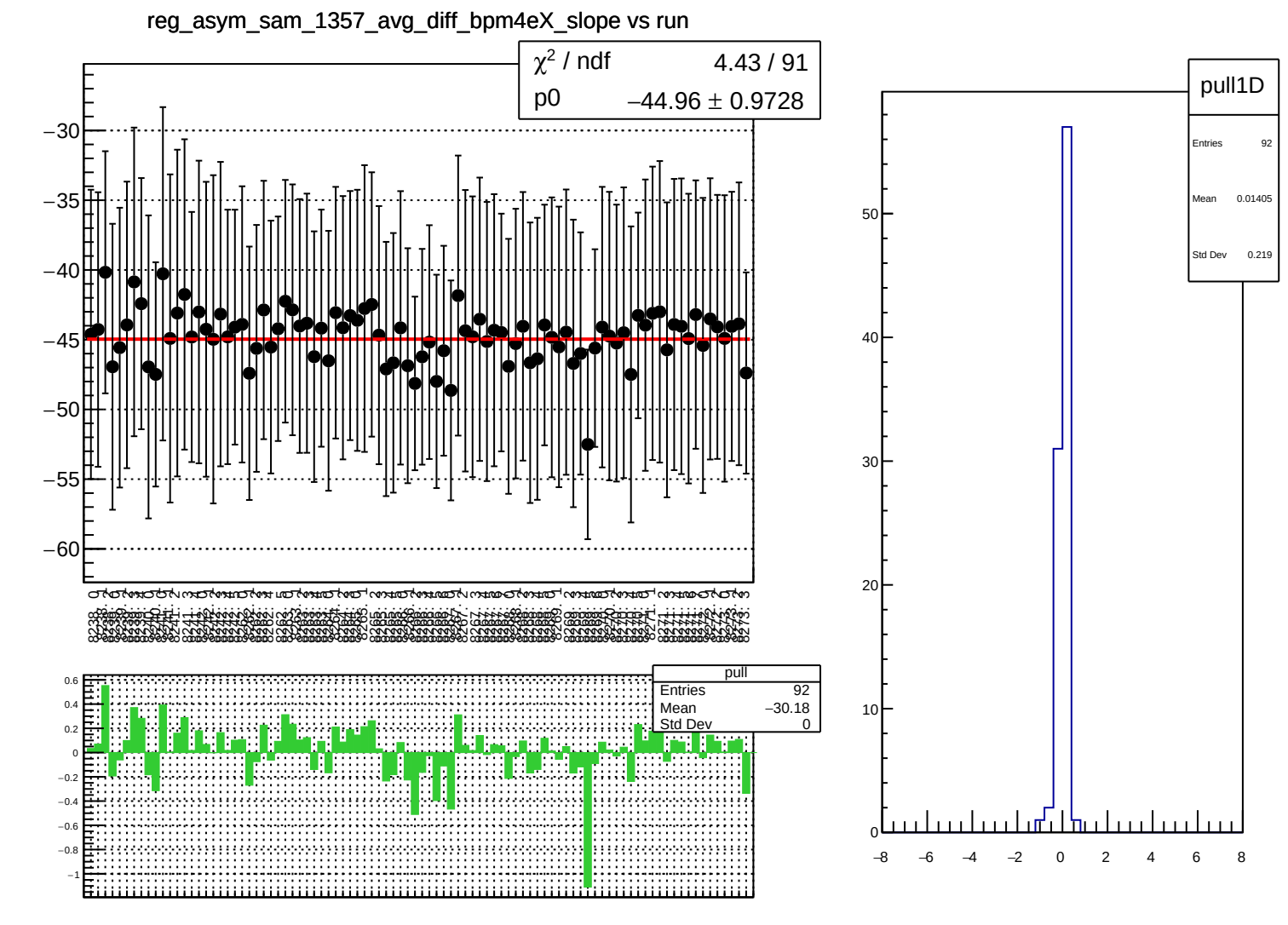

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.52 / 91
p0 3.43 ± 0.4596
pull
Entries 92
Mean 386.4
Std Dev 0
pull1D
Entries 92
Mean 0.03331
Std Dev 0.6709

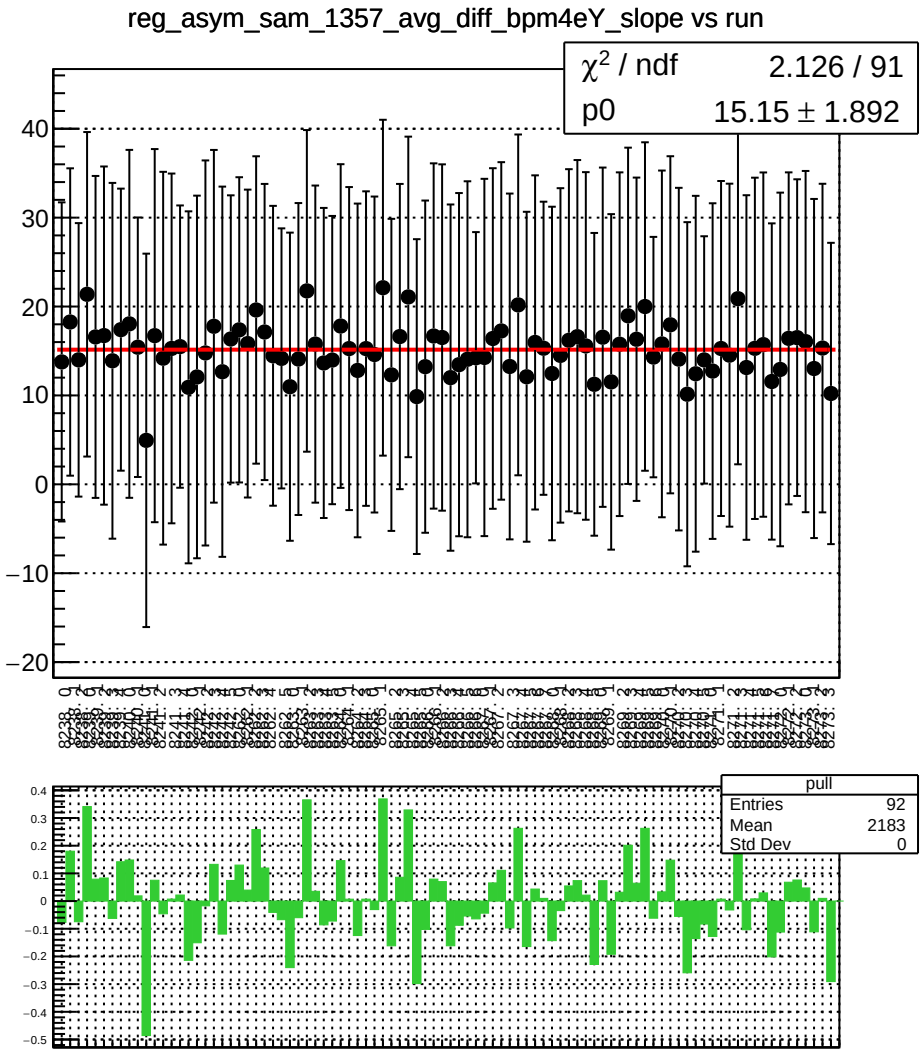

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 37.49 / 91
p0 −0.6738 ± 0.02486
pull
Entries 92
Mean 342.5
Std Dev 0

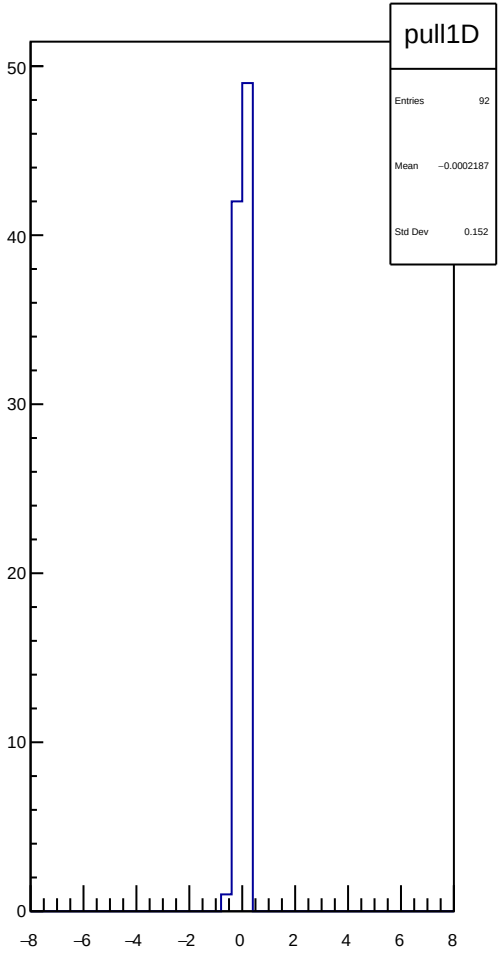

pull1D
Entries 92
Mean 0.02852
Std Dev 0.6377

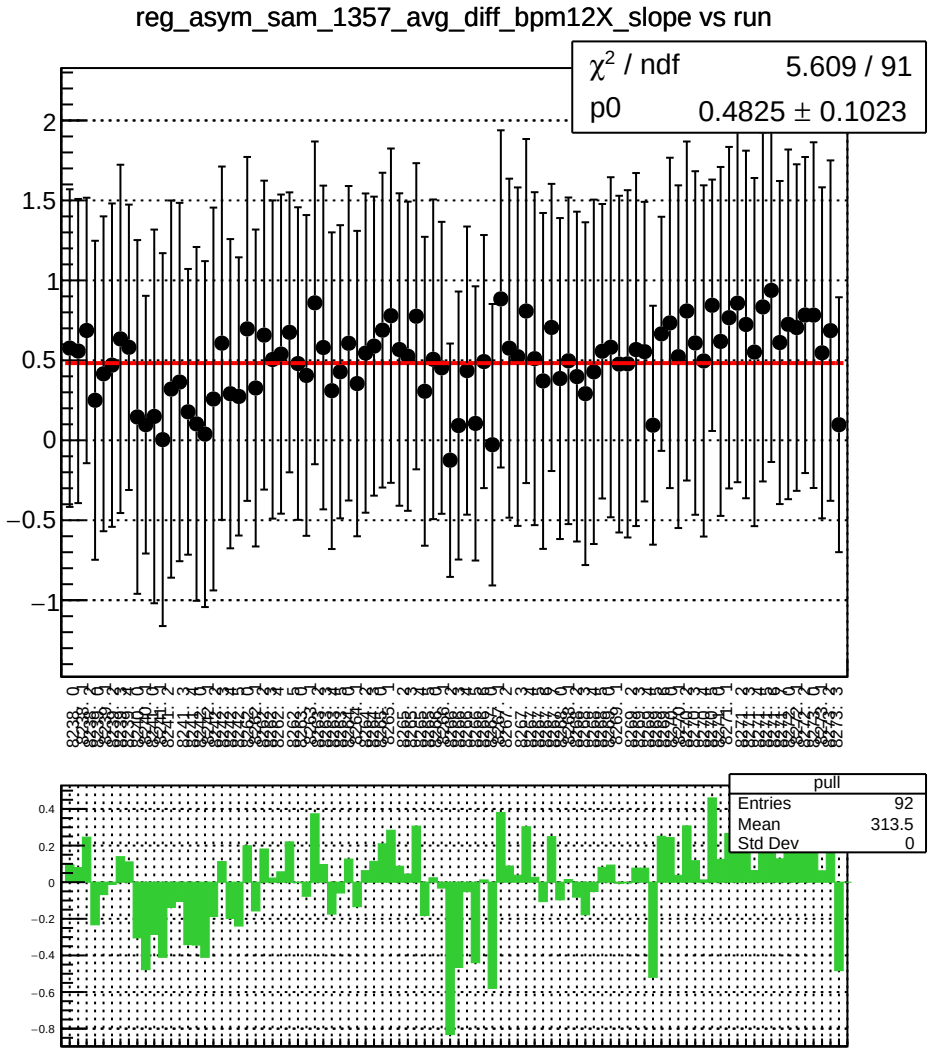

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 3.591 / 91
p0 −2.61 ± 0.8549
pull
Entries 92
Mean 4.86
Std Dev 42.84
pull1D
Entries 92
Mean −0.01047
Std Dev 0.1973

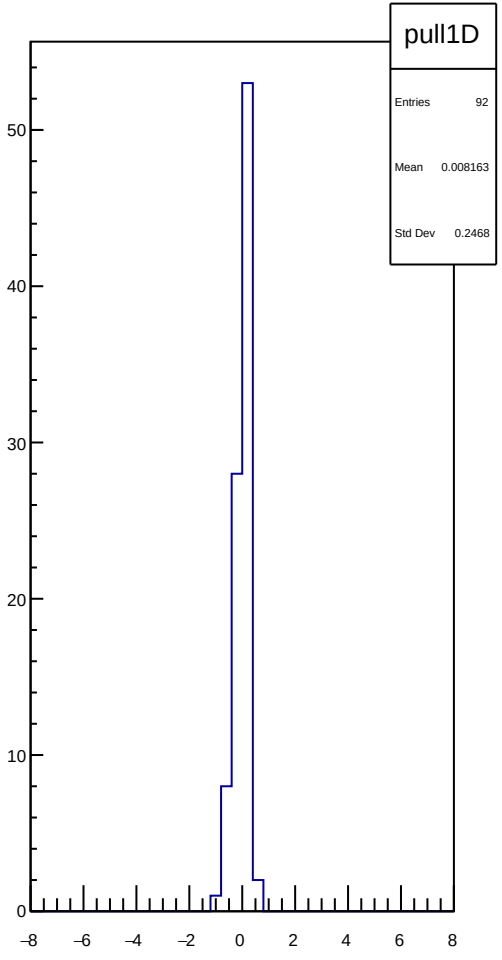

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 2.123 / 91
p0 16.55 ± 1.817
pull
Entries 92
Mean 5826
Std Dev 0
pull1D
Entries 92
Mean 0.0001336
Std Dev 0.1519

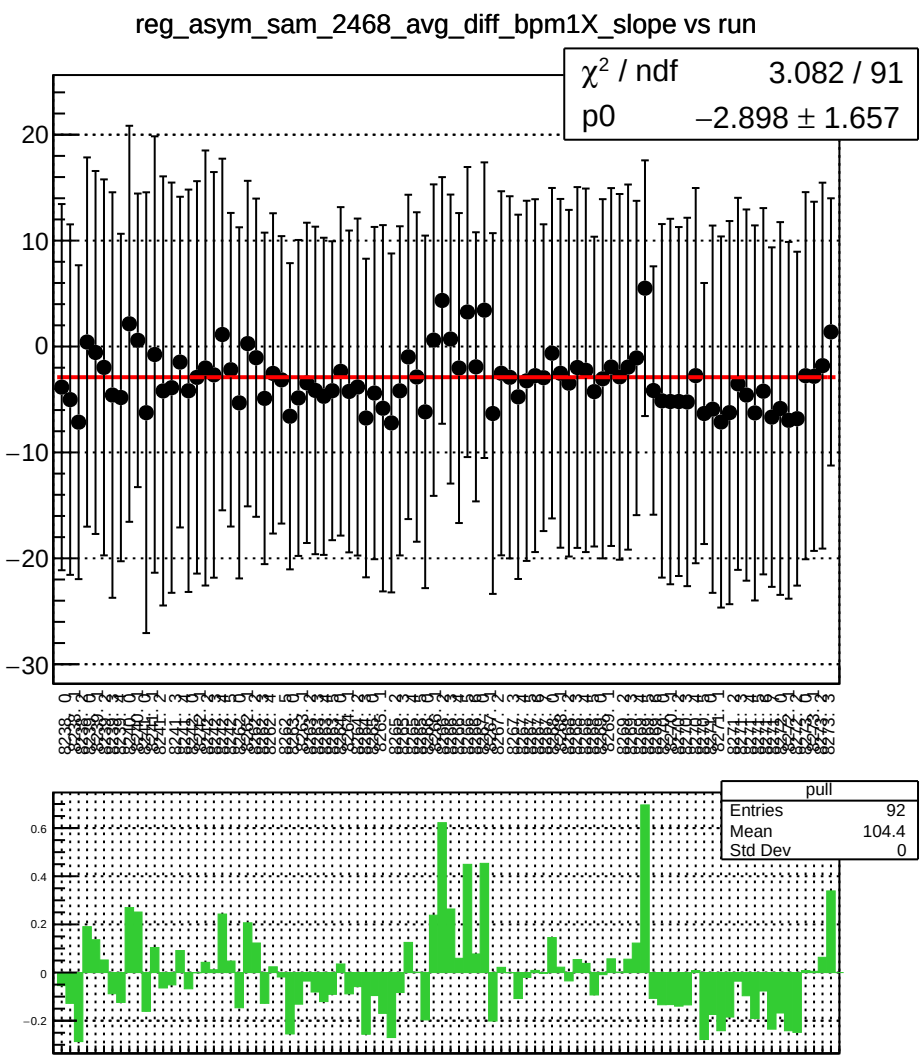

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.43 / 91
p0 −44.96 ± 0.9728
pull
Entries 92
Mean −30.18
Std Dev 0
pull1D
Entries 92
Mean 0.01405
Std Dev 0.219

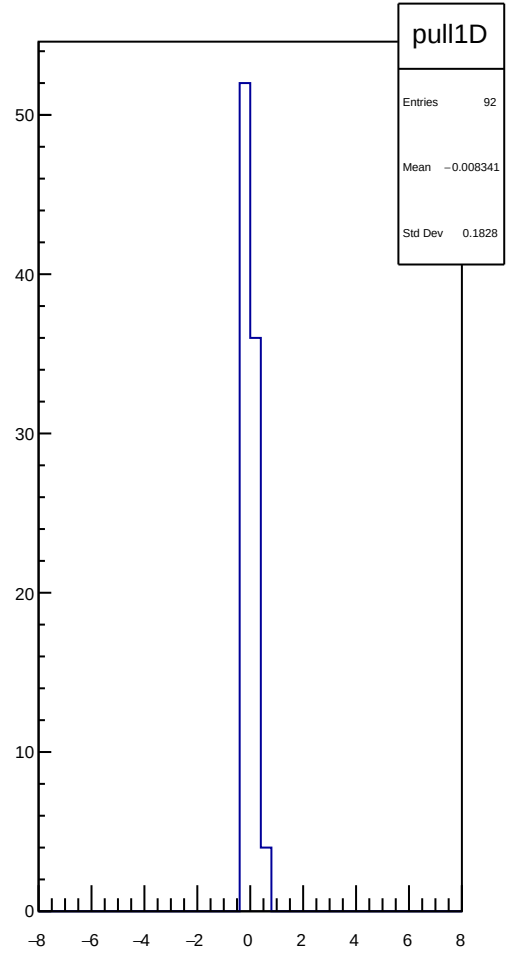

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.126 / 91
p0 15.15 ± 1.892
pull
Entries 92
Mean 2183
Std Dev 0

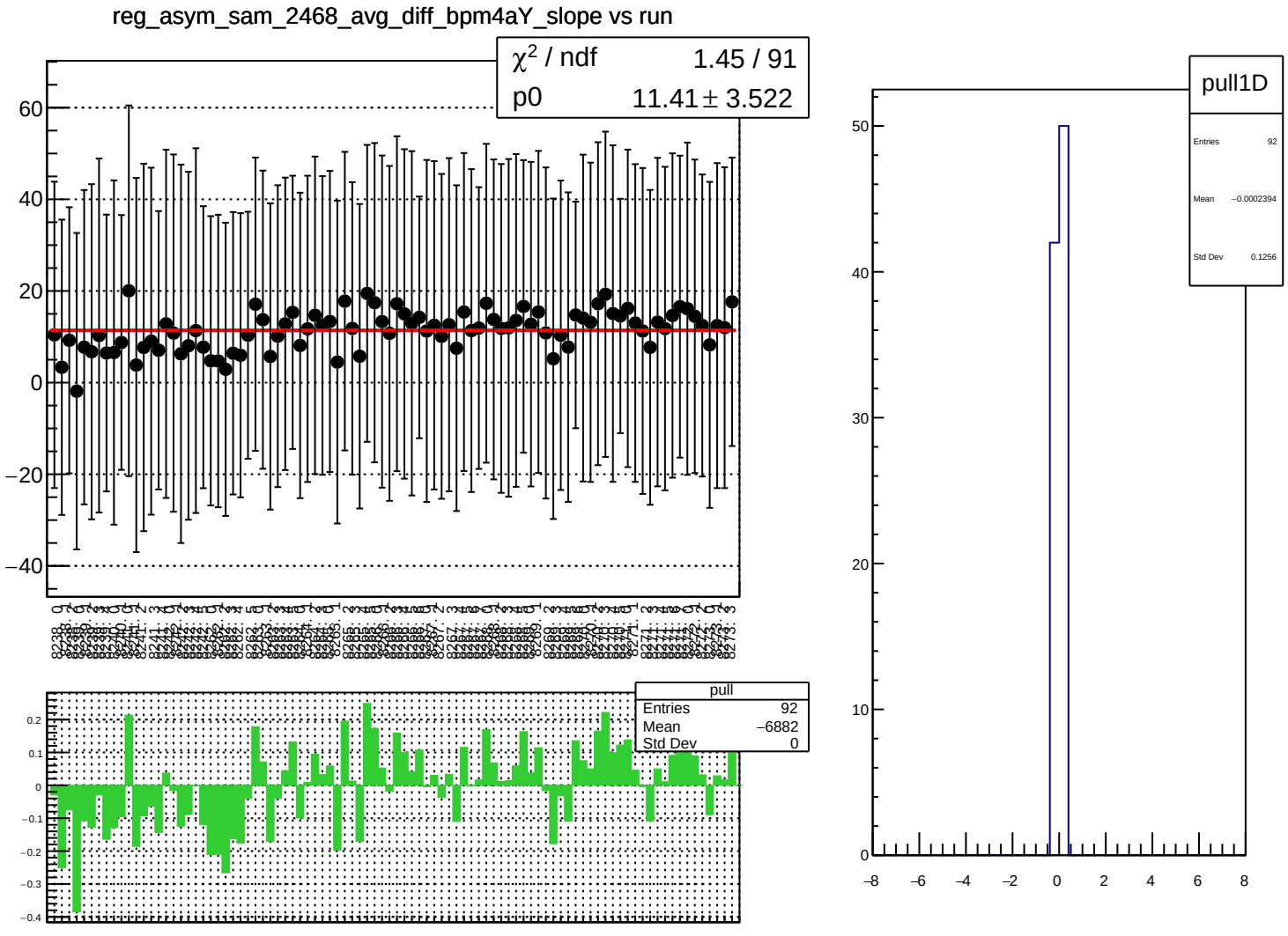

pull1D
Entries 92
Mean −0.0002187
Std Dev 0.152

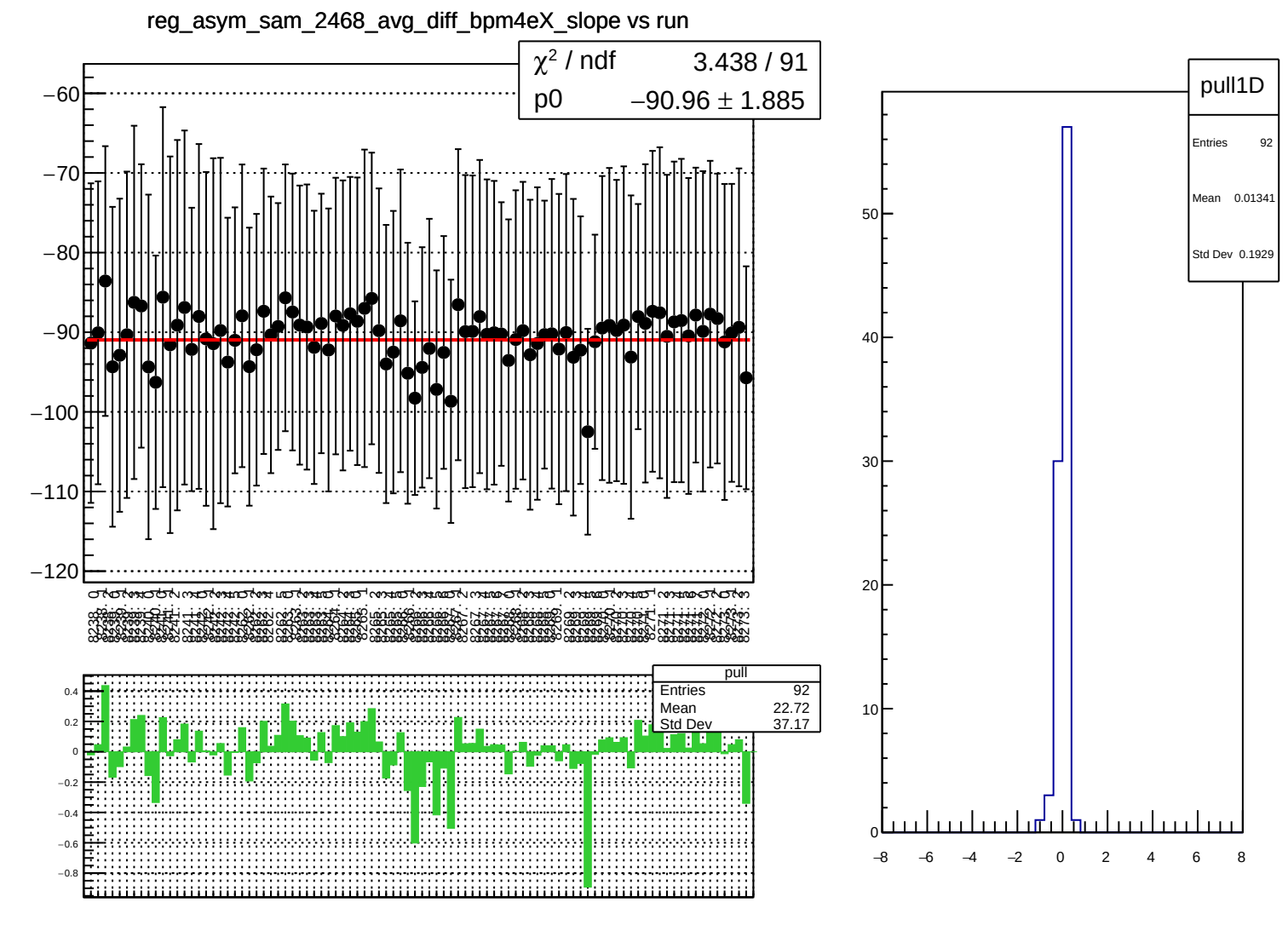

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 5.609 / 91
p0 0.4825 ± 0.1023
pull
Entries 92
Mean 313.5
Std Dev 0

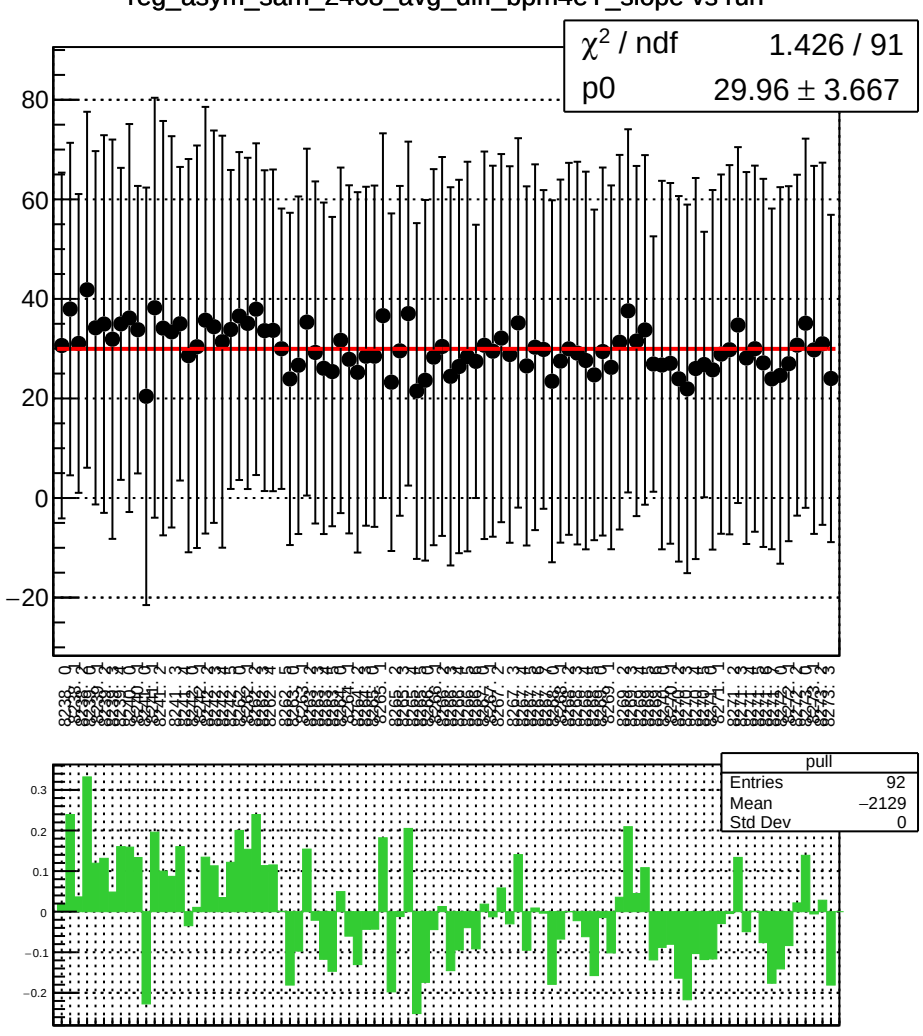

pull1D
Entries 92
Mean 0.008163
Std Dev 0.2468

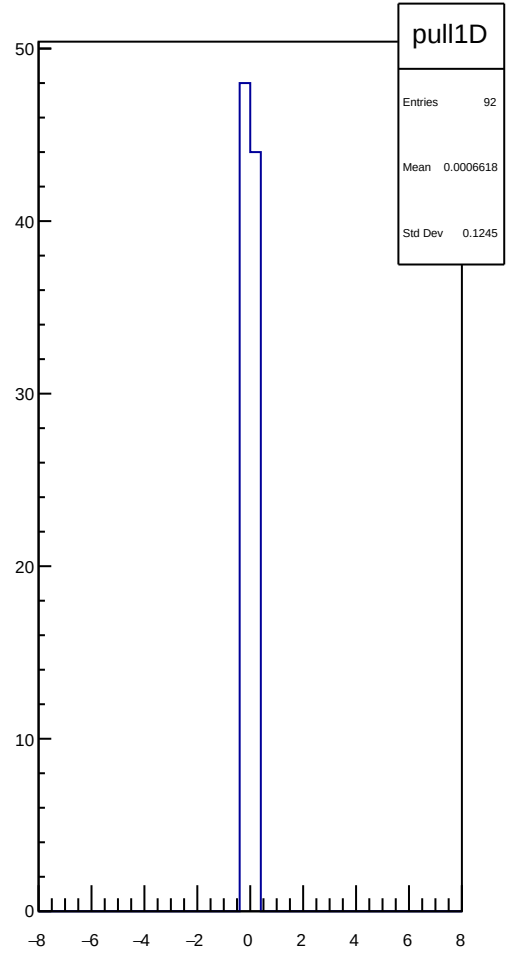

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 3.082 / 91
p0 −2.898 ± 1.657
pull
Entries 92
Mean 104.4
Std Dev 0

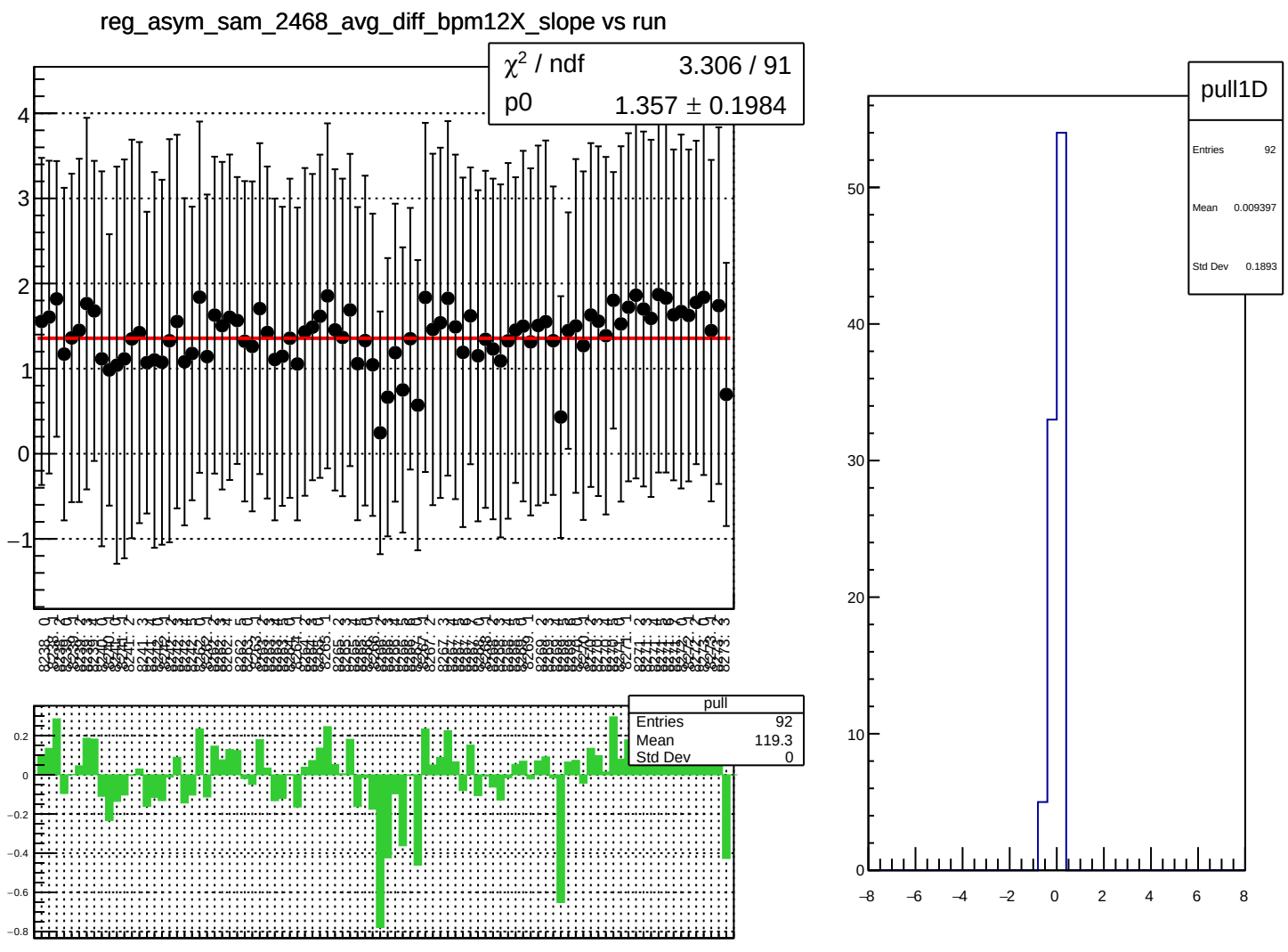

pull1D
Entries 92
Mean −0.008341
Std Dev 0.1828

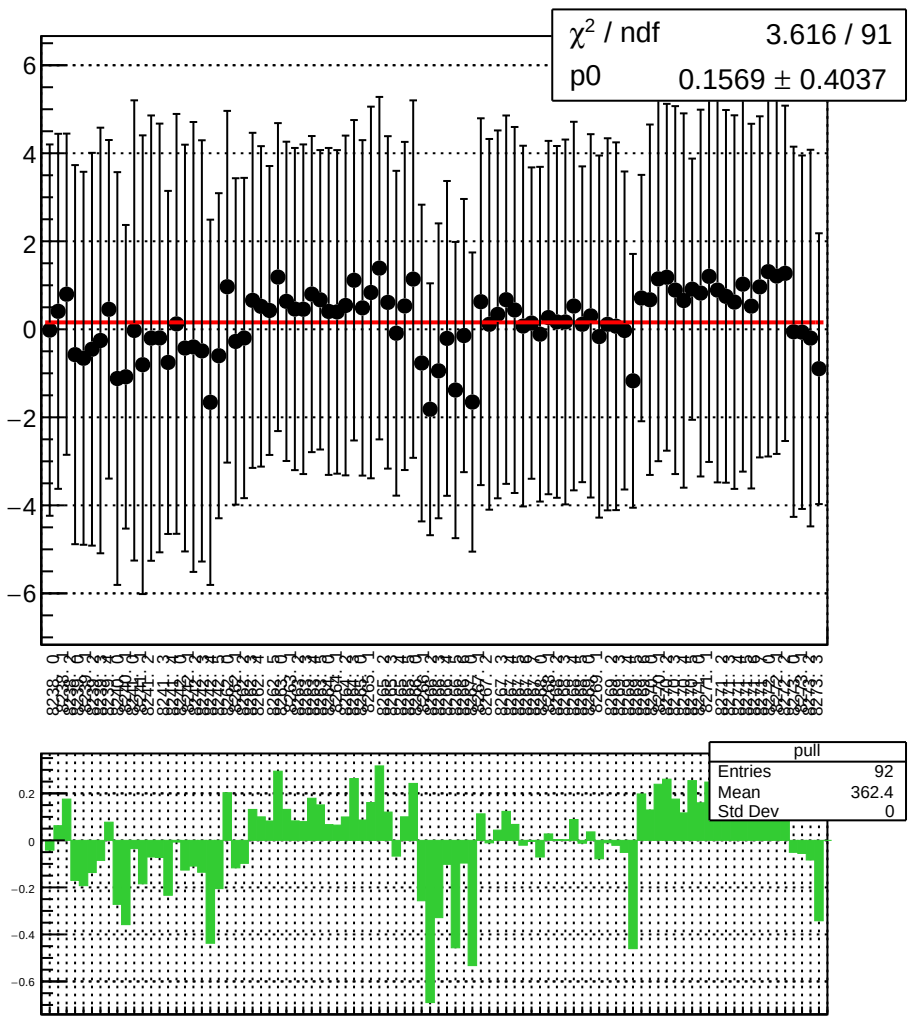

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.45 / 91
p0 11.41 ± 3.522
pull
Entries 92
Mean −6882
Std Dev 0
pull1D
Entries 92
Mean −0.0002394
Std Dev 0.1256

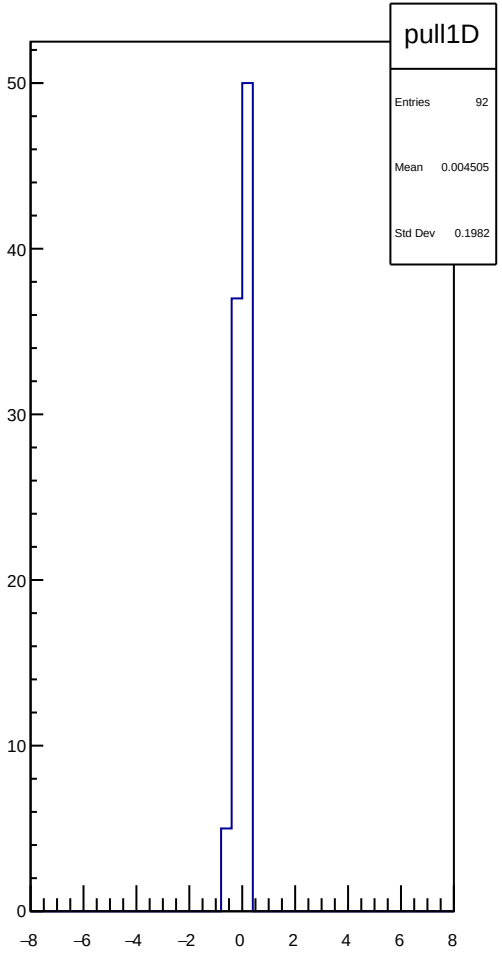

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.438 / 91
p0 −90.96 ± 1.885
pull
Entries 92
Mean 22.72
Std Dev 37.17
pull1D
Entries 92
Mean 0.01341
Std Dev 0.1929

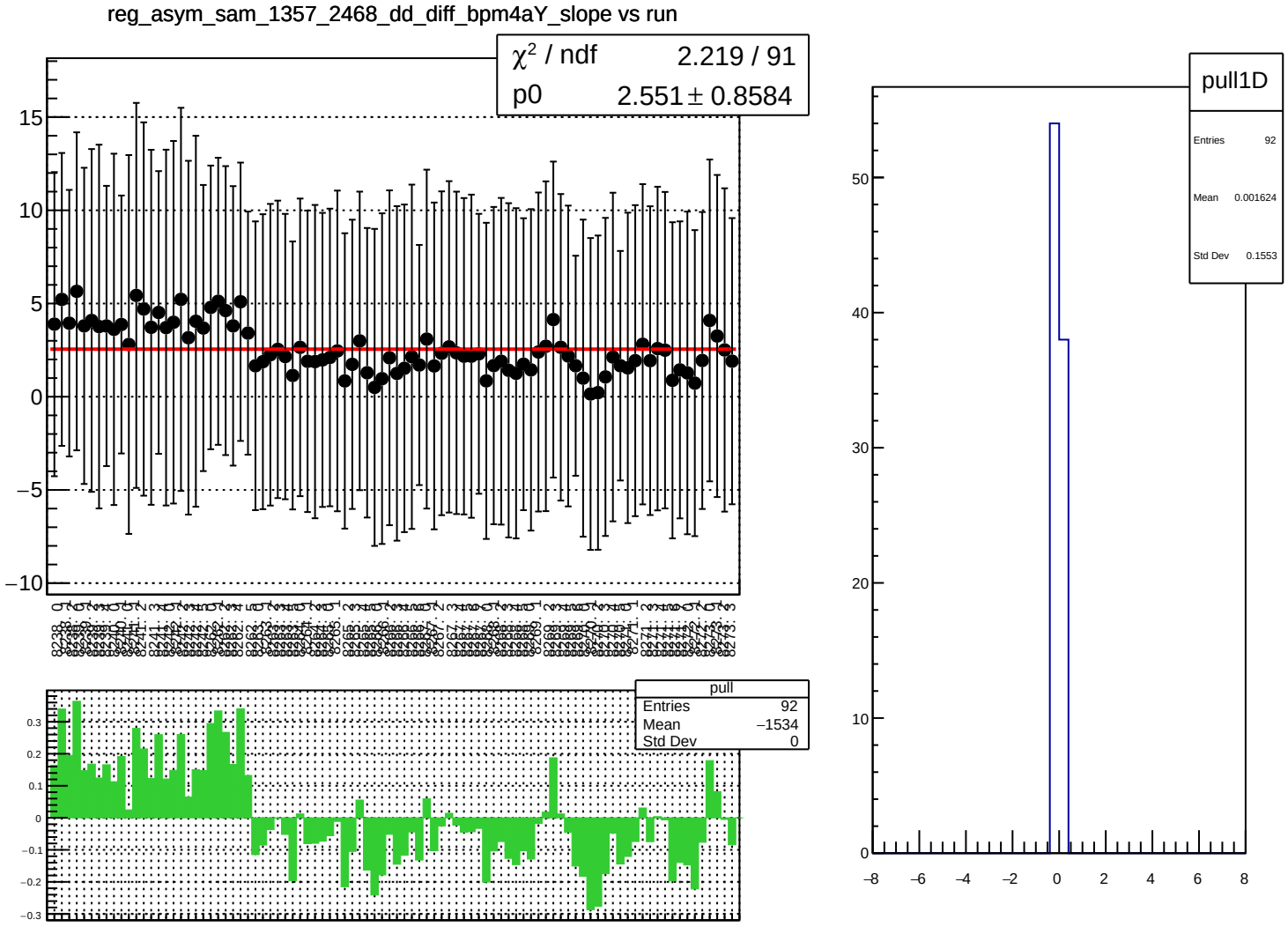

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.426 / 91
p0 29.96 ± 3.667
pull
Entries 92
Mean −2129
Std Dev 0

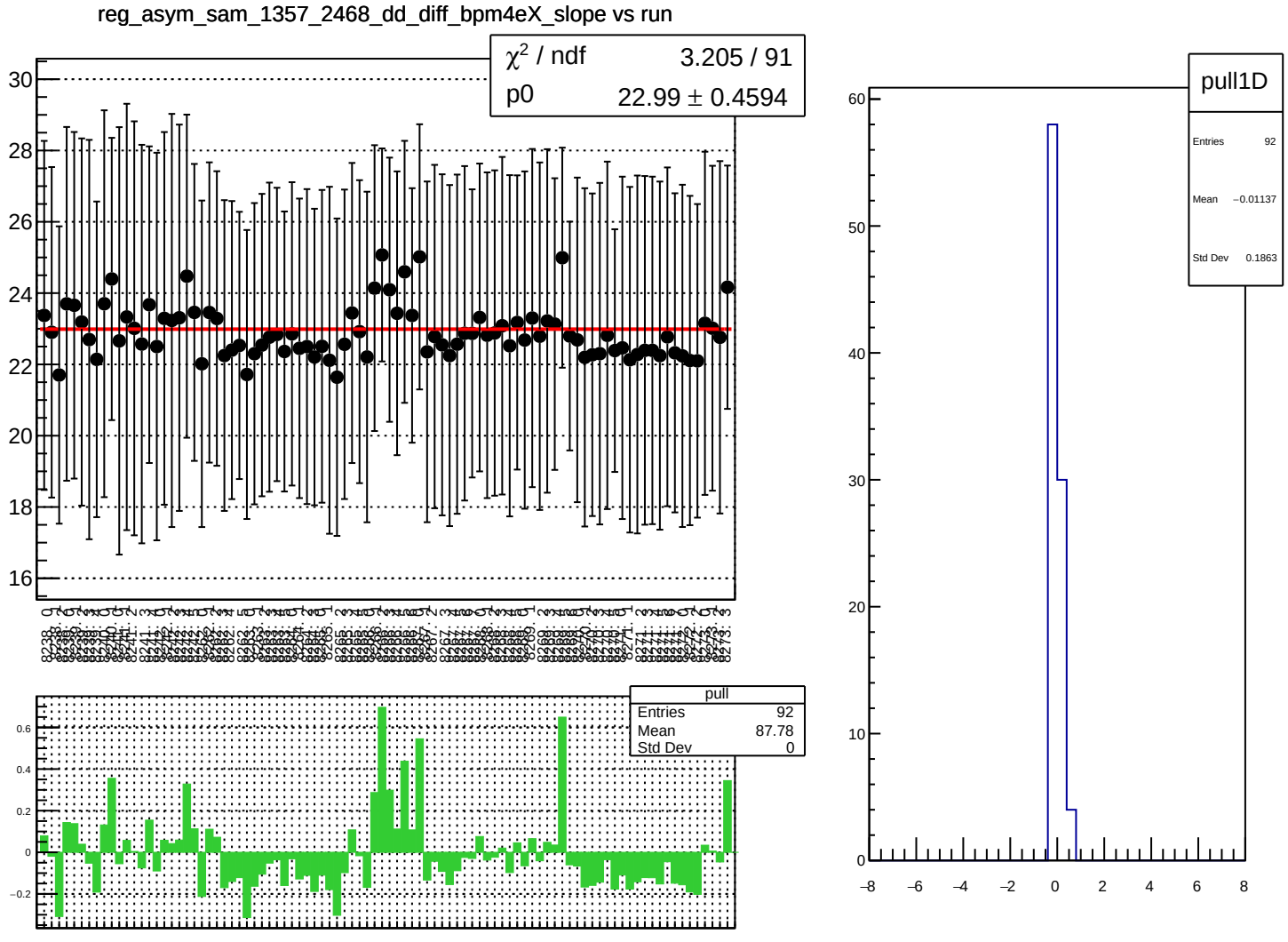

pull1D
Entries 92
Mean 0.0006618
Std Dev 0.1245

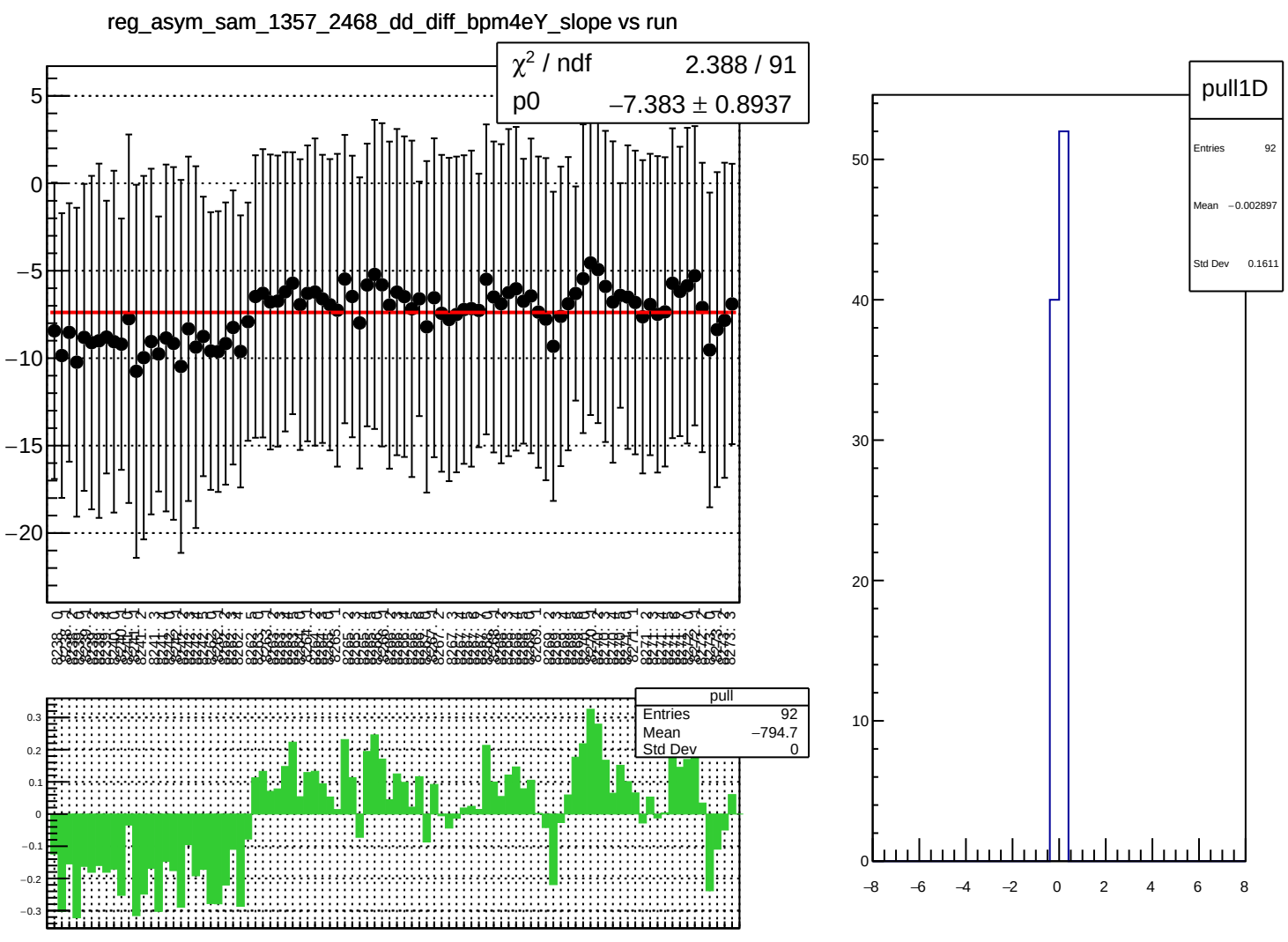

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 3.306 / 91
p0 1.357 ± 0.1984
pull
Entries 92
Mean 119.3
Std Dev 0
pull1D
Entries 92
Mean 0.009397
Std Dev 0.1893

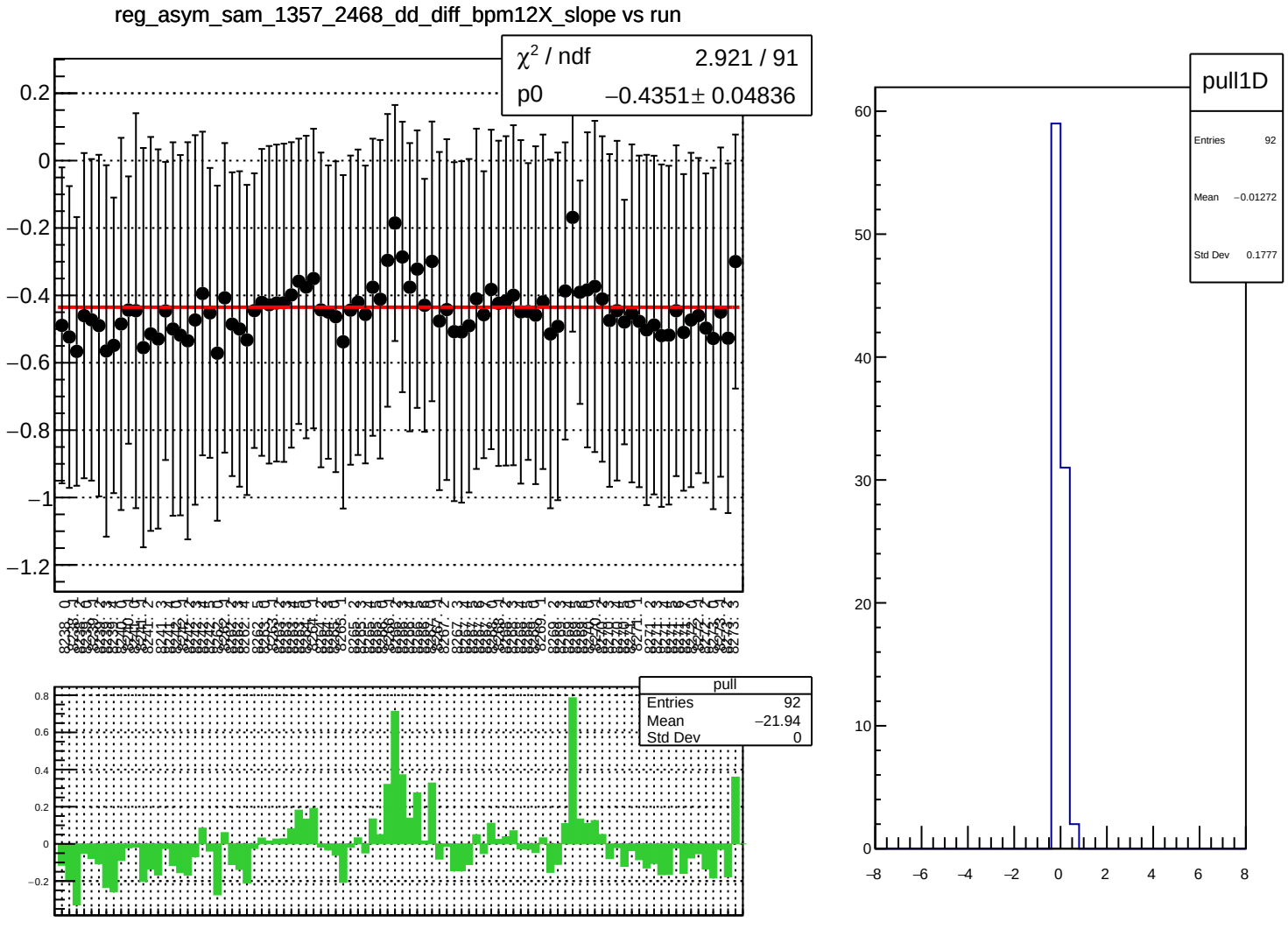

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 3.616 / 91
p0 0.1569 ± 0.4037
pull
Entries 92
Mean 362.4
Std Dev 0

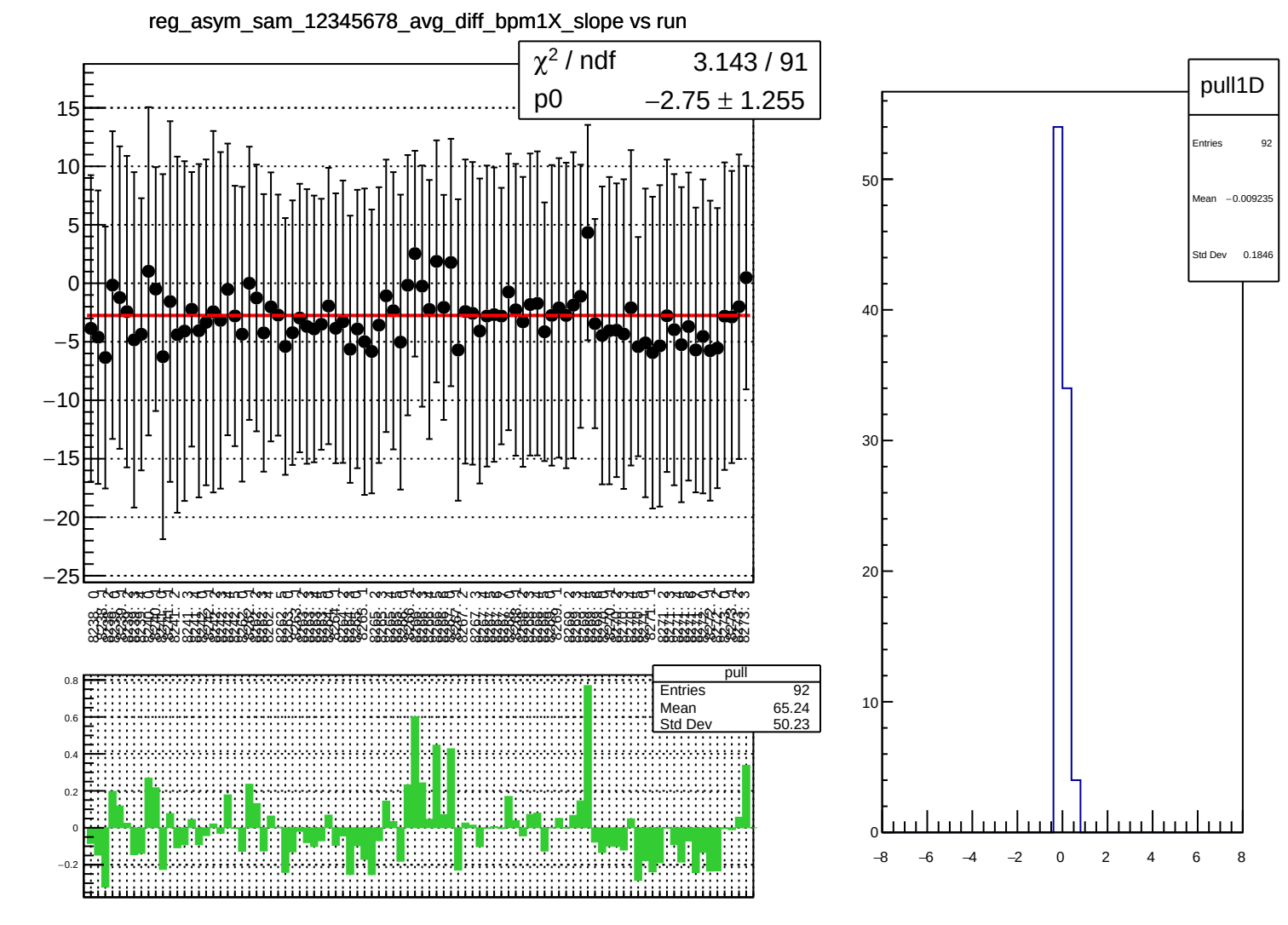

pull1D
Entries 92
Mean 0.004505
Std Dev 0.1982

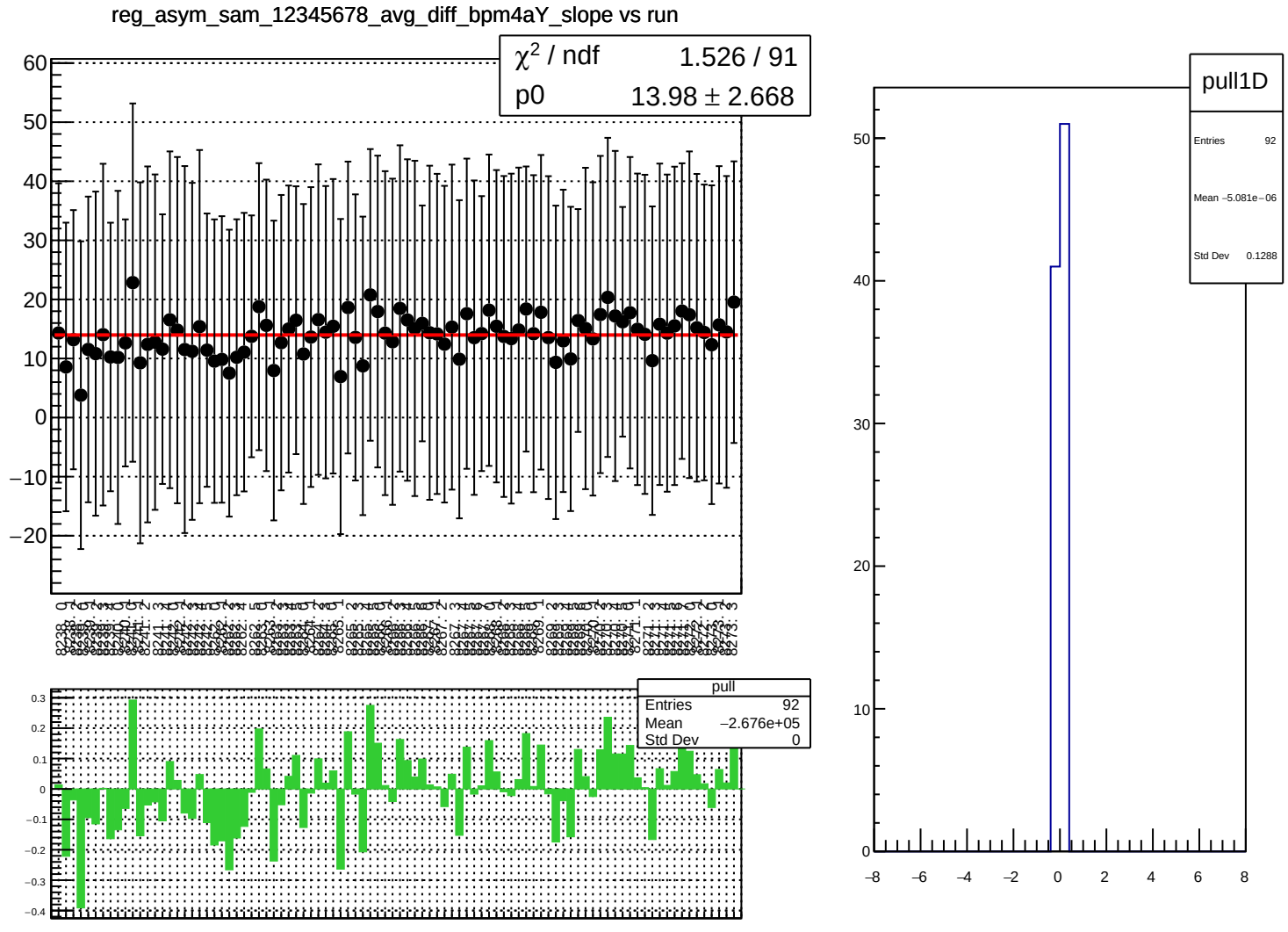

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.219 / 91
p0 2.551 ± 0.8584
pull
Entries 92
Mean −1534
Std Dev 0
pull1D
Entries 92
Mean 0.001624
Std Dev 0.1553

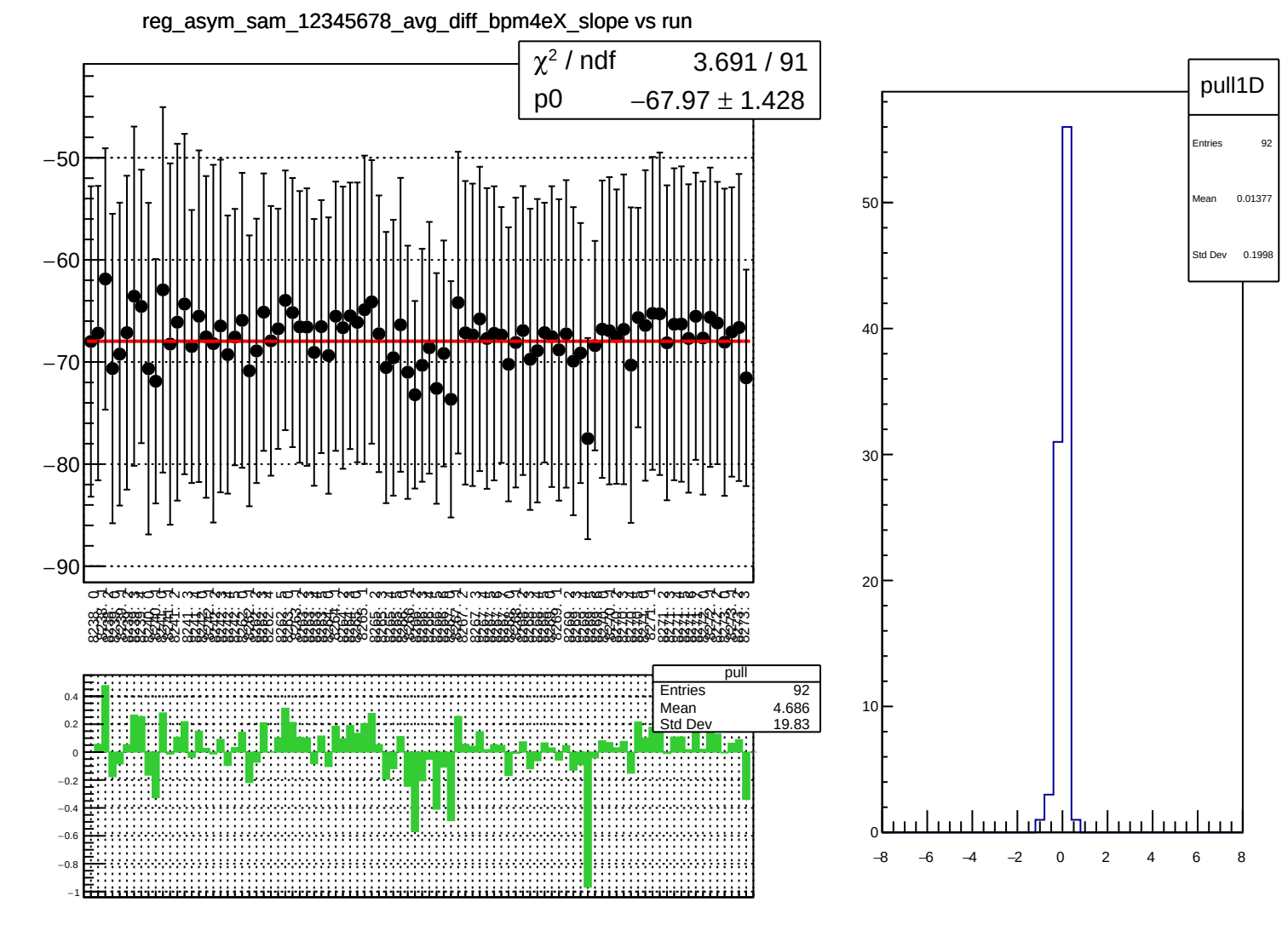

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.205 / 91
p0 22.99 ± 0.4594
pull
Entries 92
Mean 87.78
Std Dev 0
pull1D
Entries 92
Mean −0.01137
Std Dev 0.1863

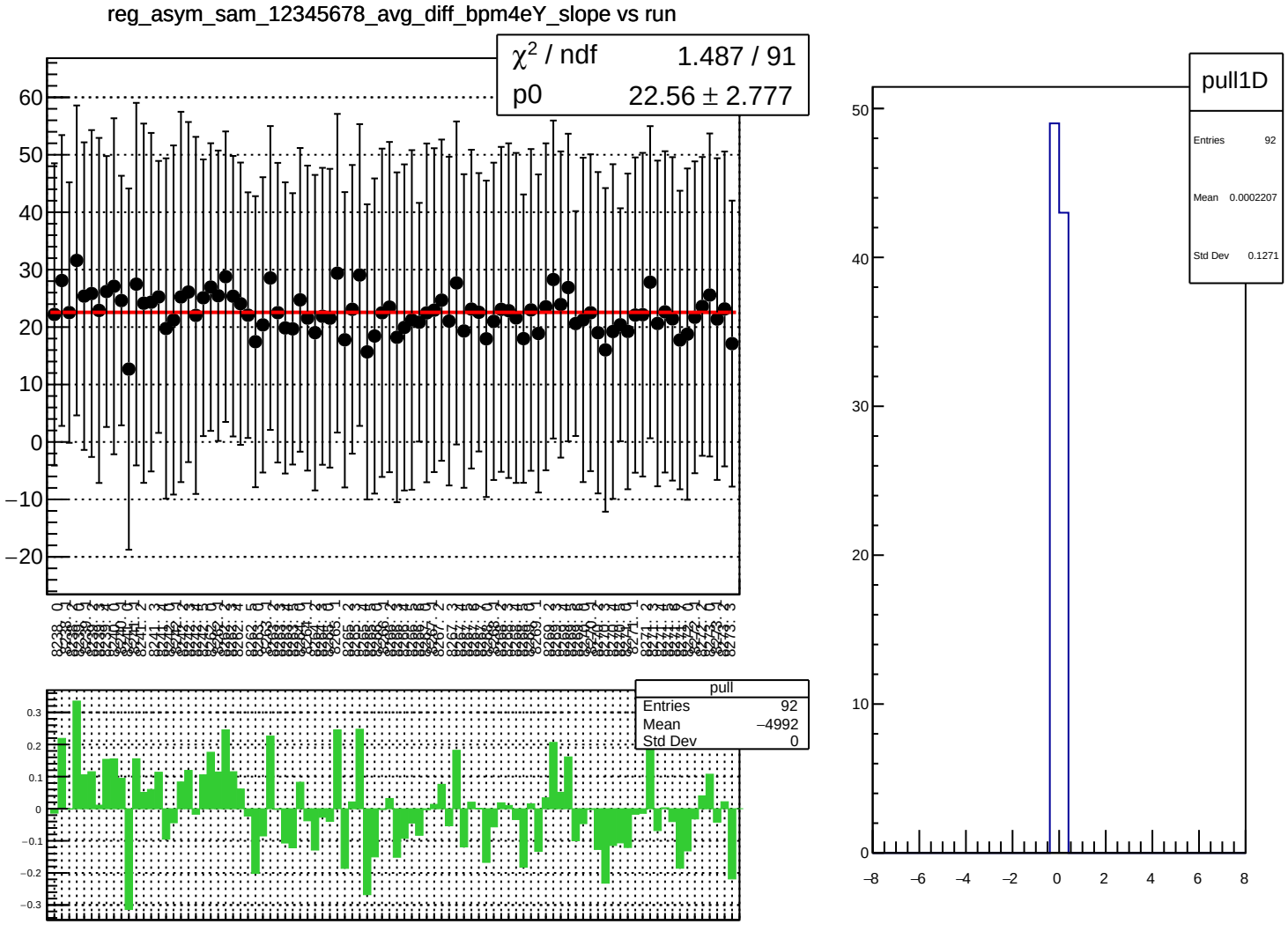

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.388 / 91
p0 −7.383 ± 0.8937
pull
Entries 92
Mean −794.7
Std Dev 0
pull1D
Entries 92
Mean −0.002897
Std Dev 0.1611

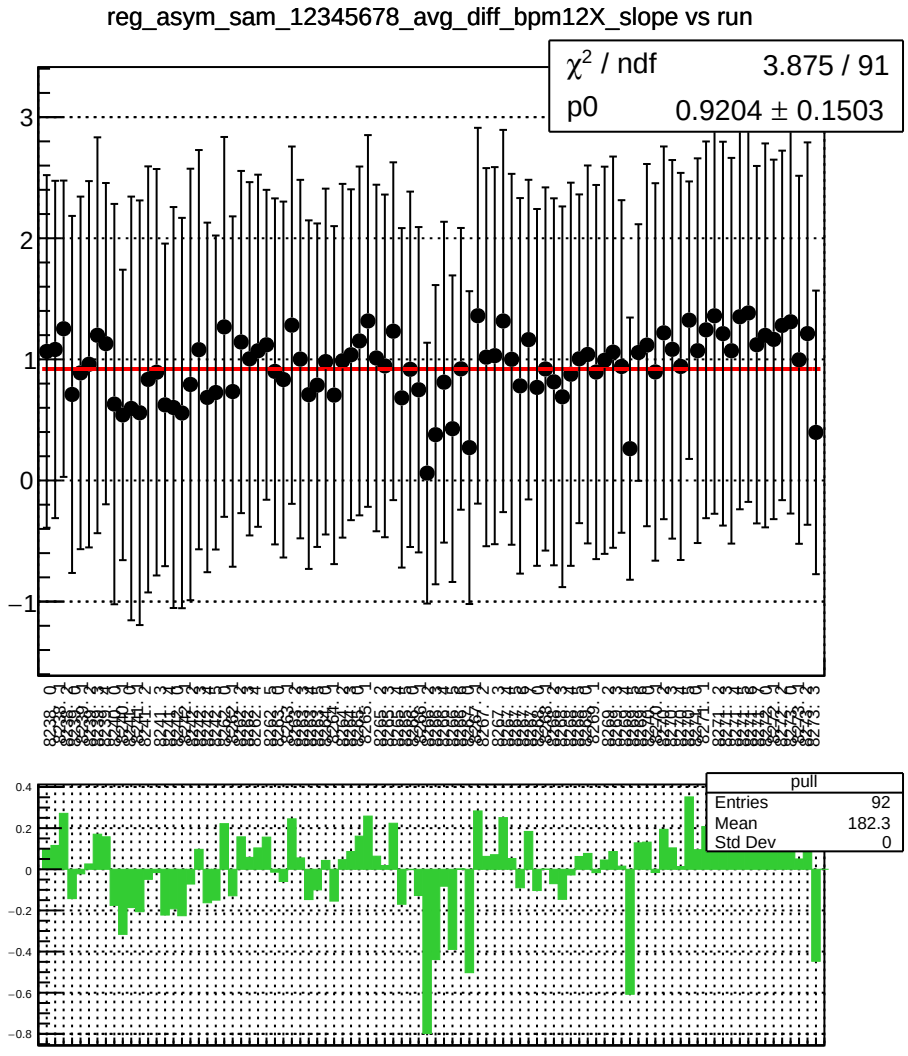

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 2.921 / 91
p0 −0.4351 ± 0.04836
pull
Entries 92
Mean −21.94
Std Dev 0
pull1D
Entries 92
Mean −0.01272
Std Dev 0.1777

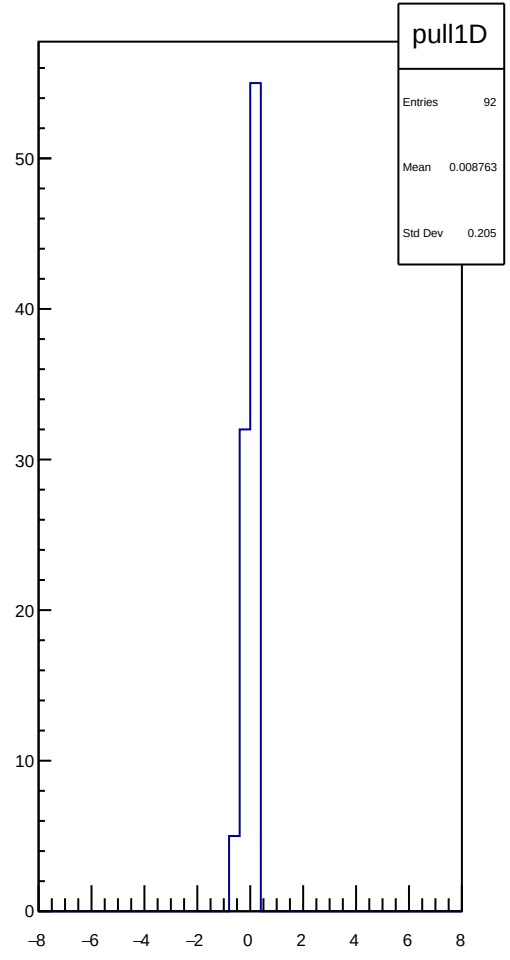

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 3.143 / 91
p0 −2.75 ± 1.255
pull
Entries 92
Mean 65.24
Std Dev 50.23
pull1D
Entries 92
Mean −0.009235
Std Dev 0.1846

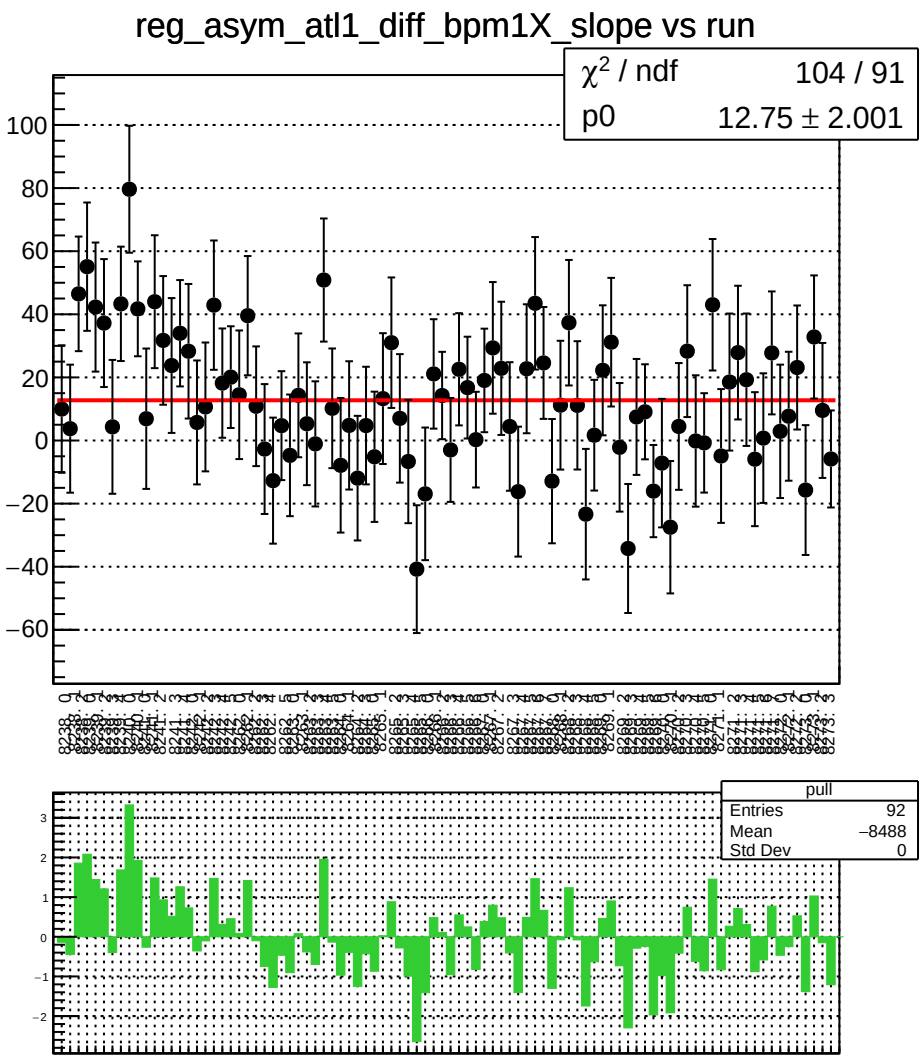

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.526 / 91
p0 13.98 ± 2.668
pull
Entries 92
Mean −2.676e+05
Std Dev 0
pull1D
Entries 92
Mean −5.081e−06
Std Dev 0.1288

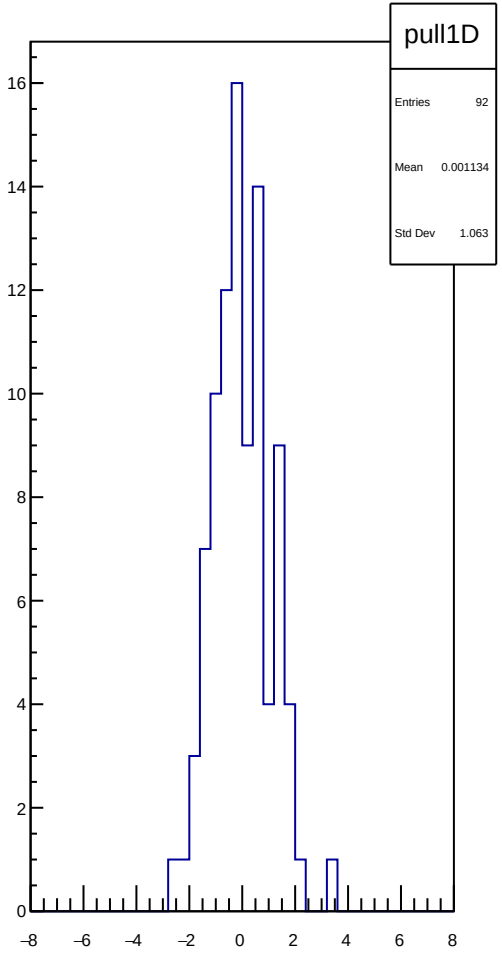

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.691 / 91
p0 −67.97 ± 1.428
pull
Entries 92
Mean 4.686
Std Dev 19.83
pull1D
Entries 92
Mean 0.01377
Std Dev 0.1998

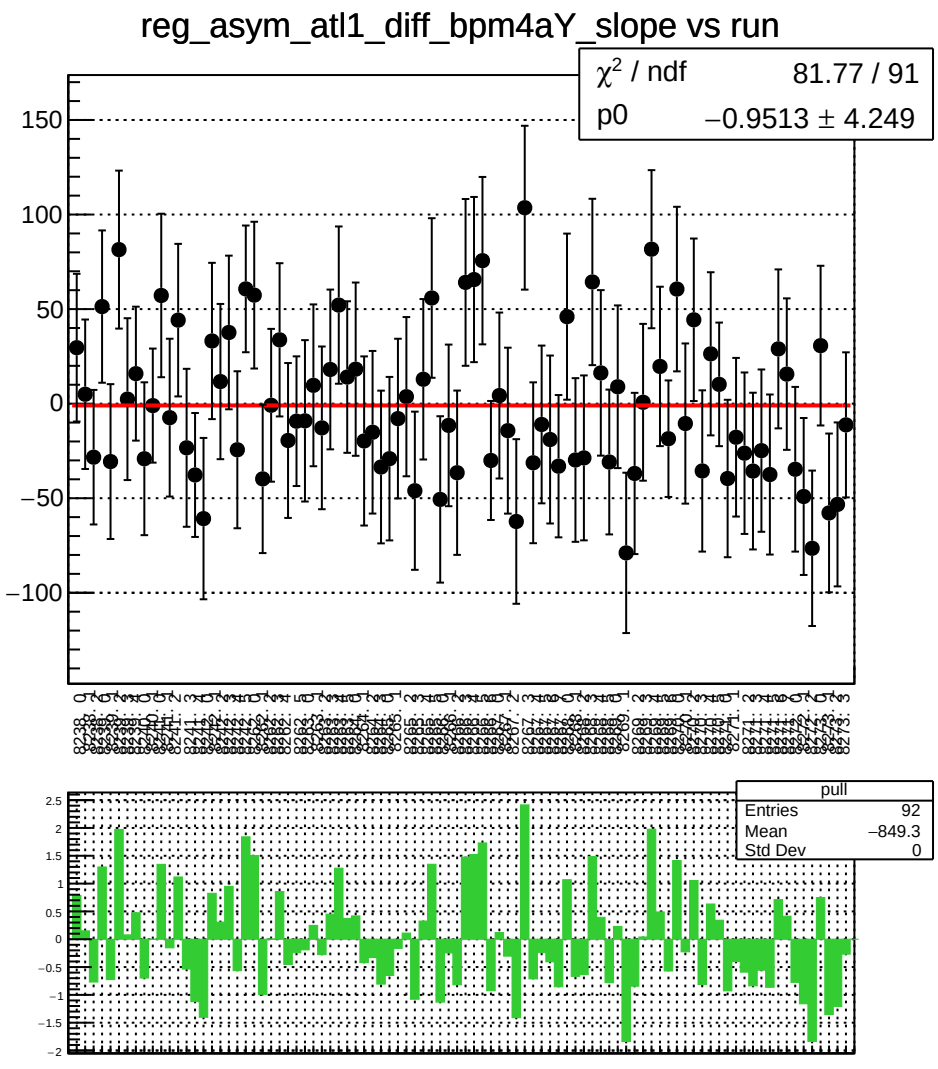

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.487 / 91
p0 22.56 ± 2.777
pull
Entries 92
Mean −4992
Std Dev 0
pull1D
Entries 92
Mean 0.0002207
Std Dev 0.1271

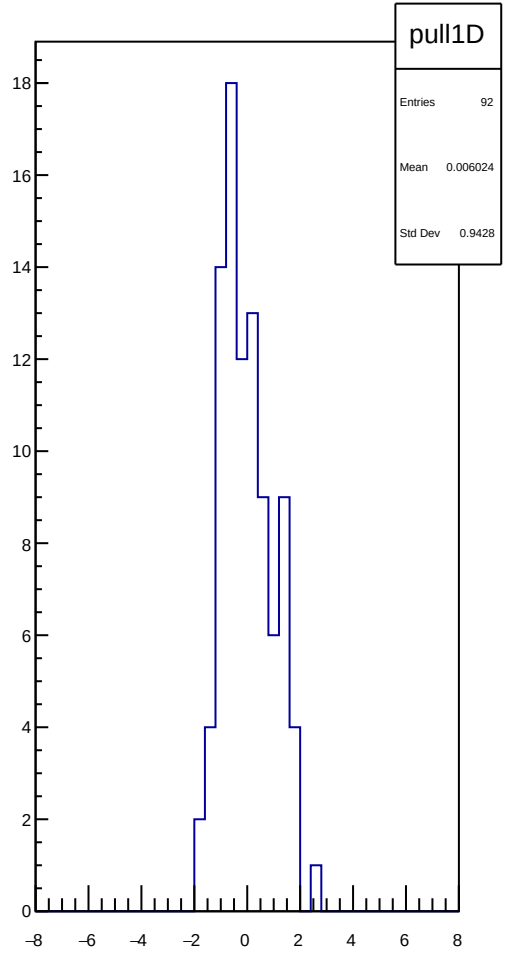

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 3.875 / 91
p0 0.9204 ± 0.1503
pull
Entries 92
Mean 182.3
Std Dev 0

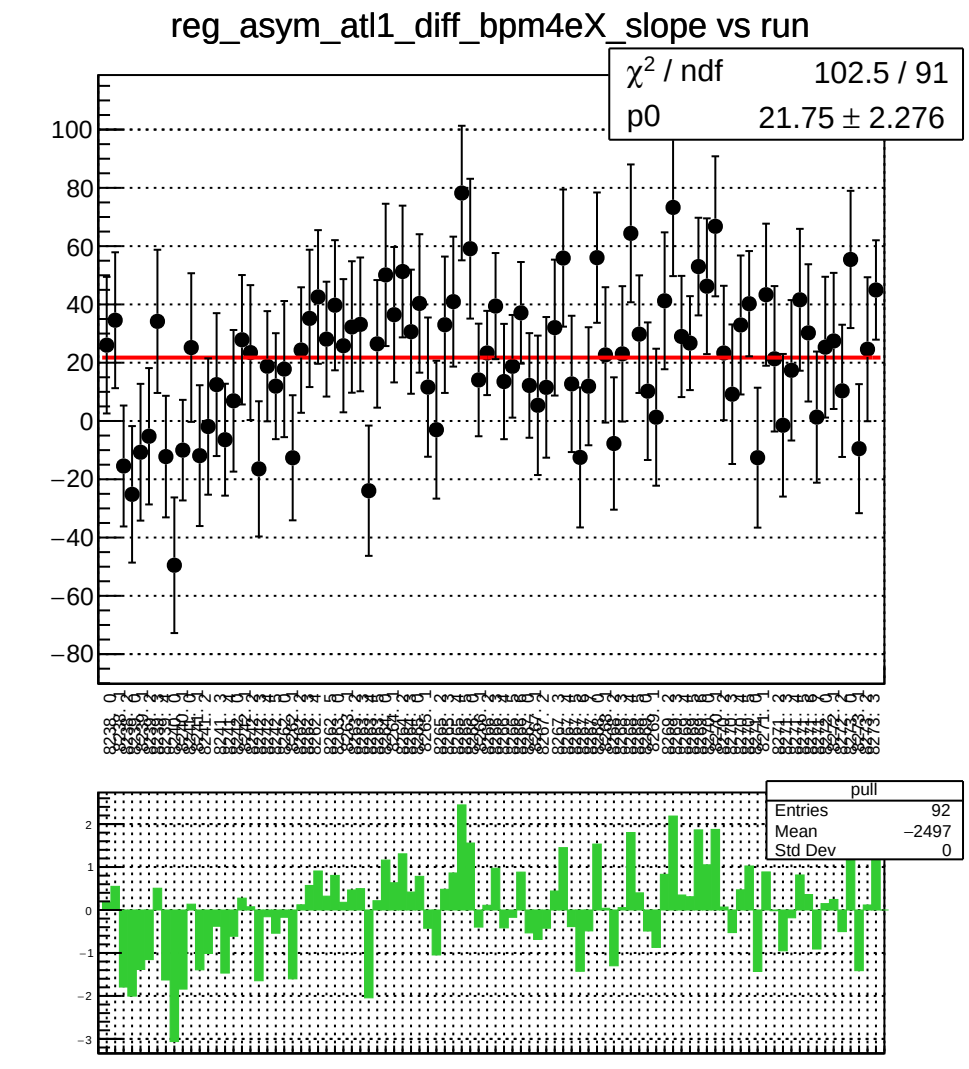

pull1D
Entries 92
Mean 0.008763
Std Dev 0.205

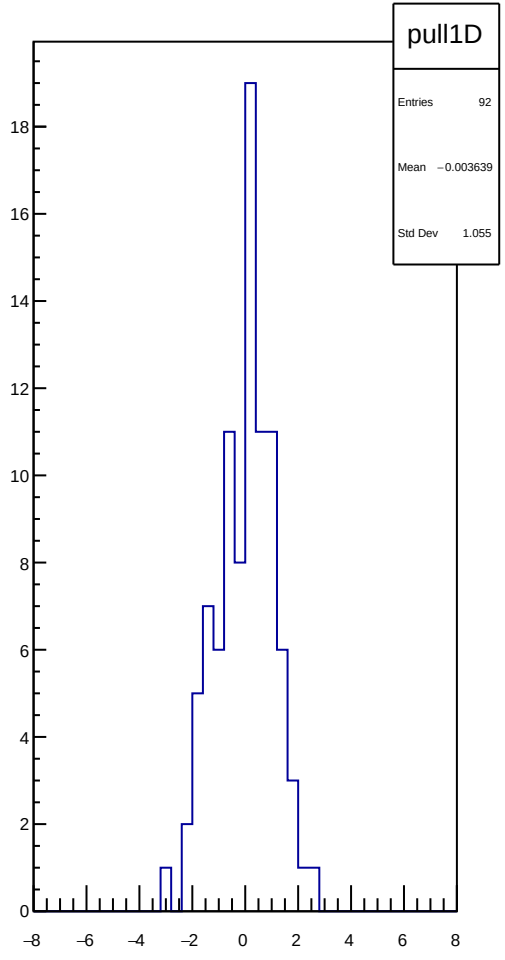

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 104 / 91
p0 12.75 ± 2.001
pull
Entries 92
Mean −8488
Std Dev 0

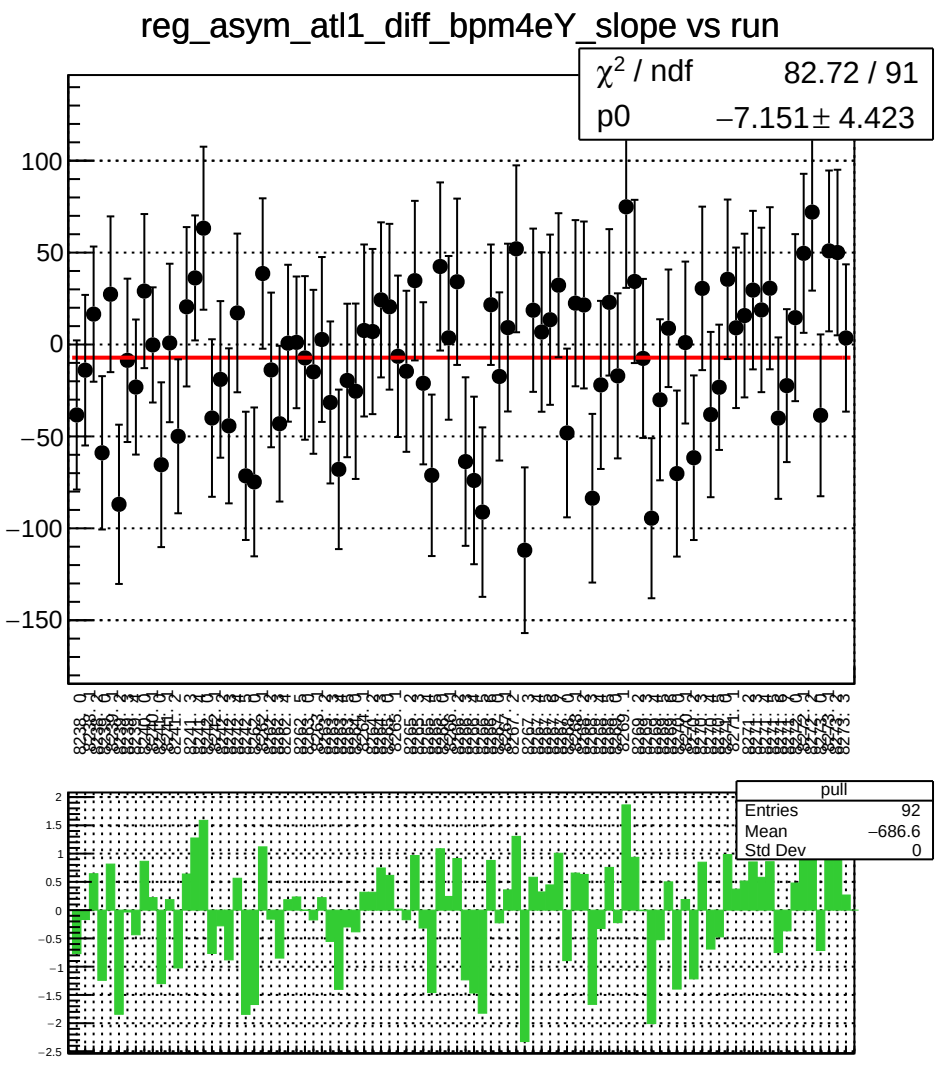

pull1D
Entries 92
Mean 0.001134
Std Dev 1.063

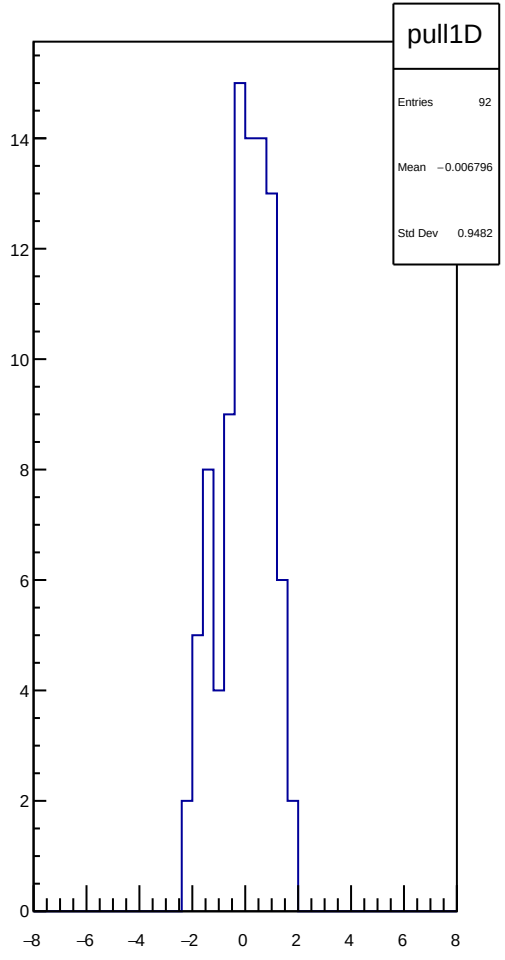

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 81.77 / 91
p0 −0.9513 ± 4.249
150
100
50
0
−50
−100
pull
Entries 92
Mean −849.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

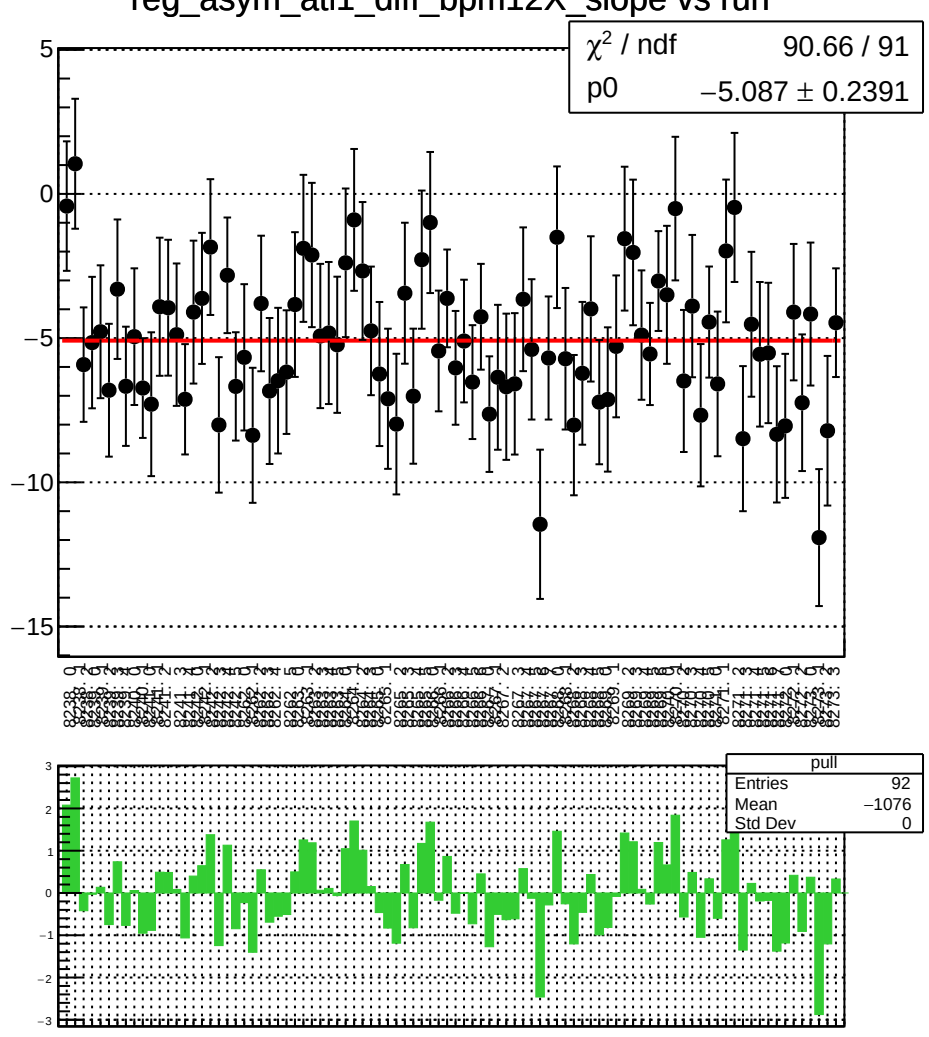

pull1D
Entries 92
Mean 0.006024
Std Dev 0.9428
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

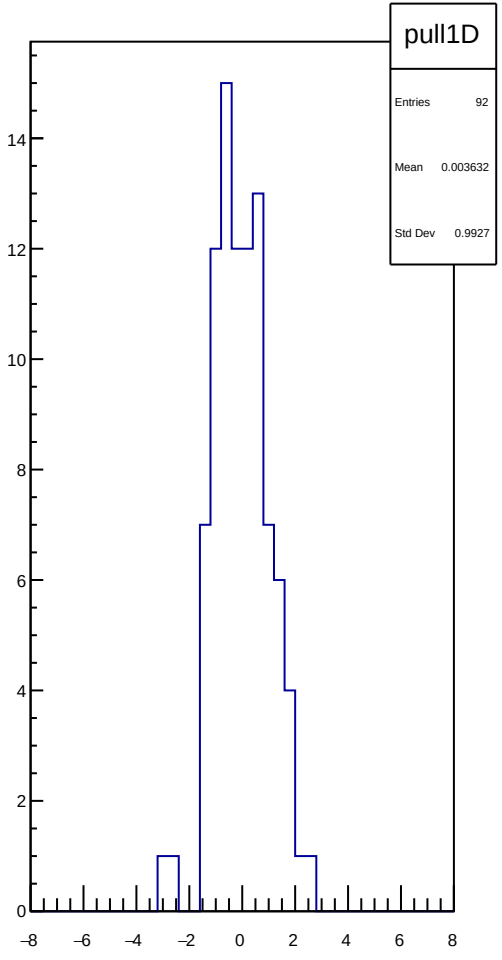

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 102.5 / 91
p0 21.75 ± 2.276
pull
Entries 92
Mean −2497
Std Dev 0

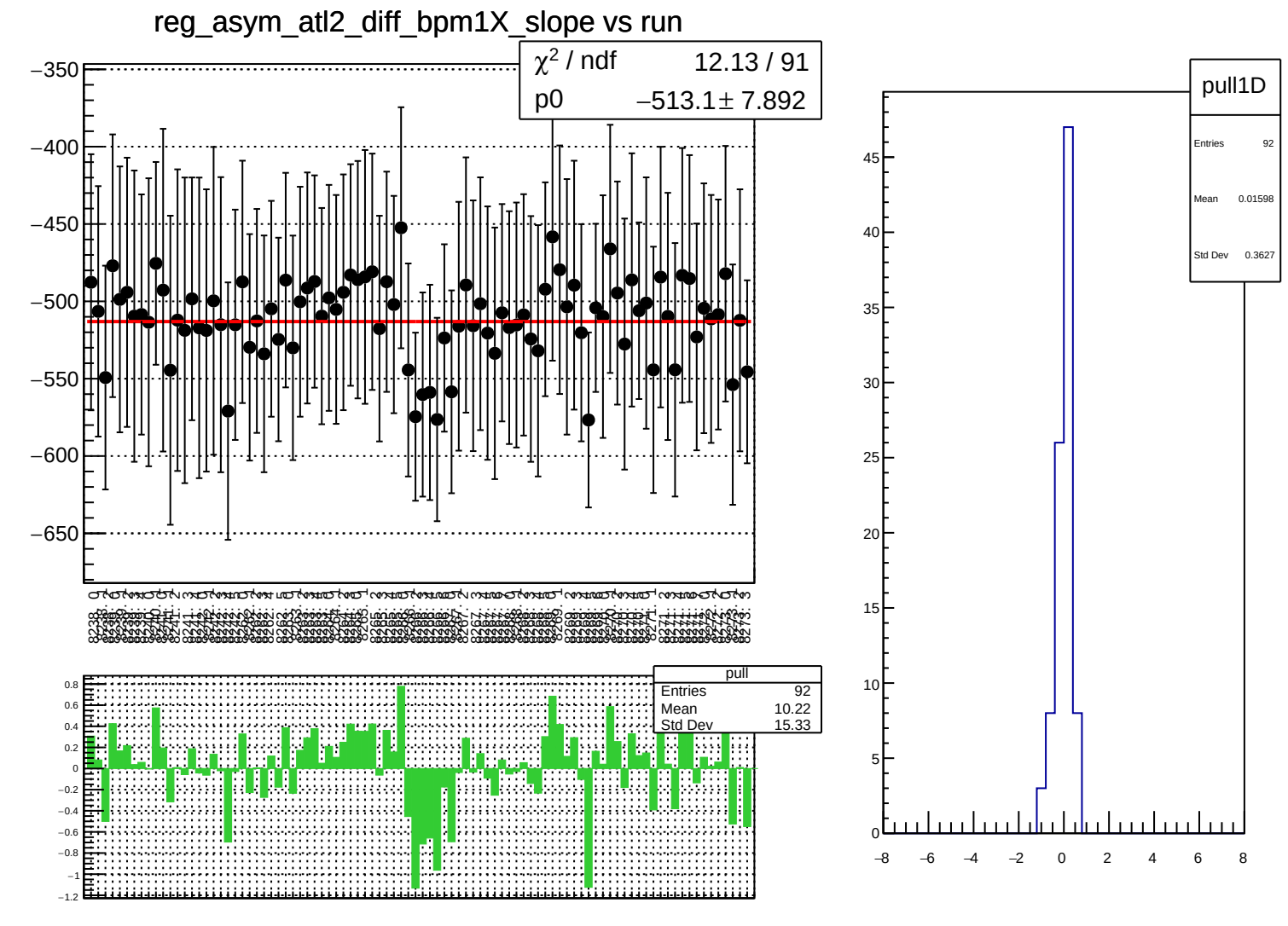

pull1D
Entries 92
Mean −0.003639
Std Dev 1.055

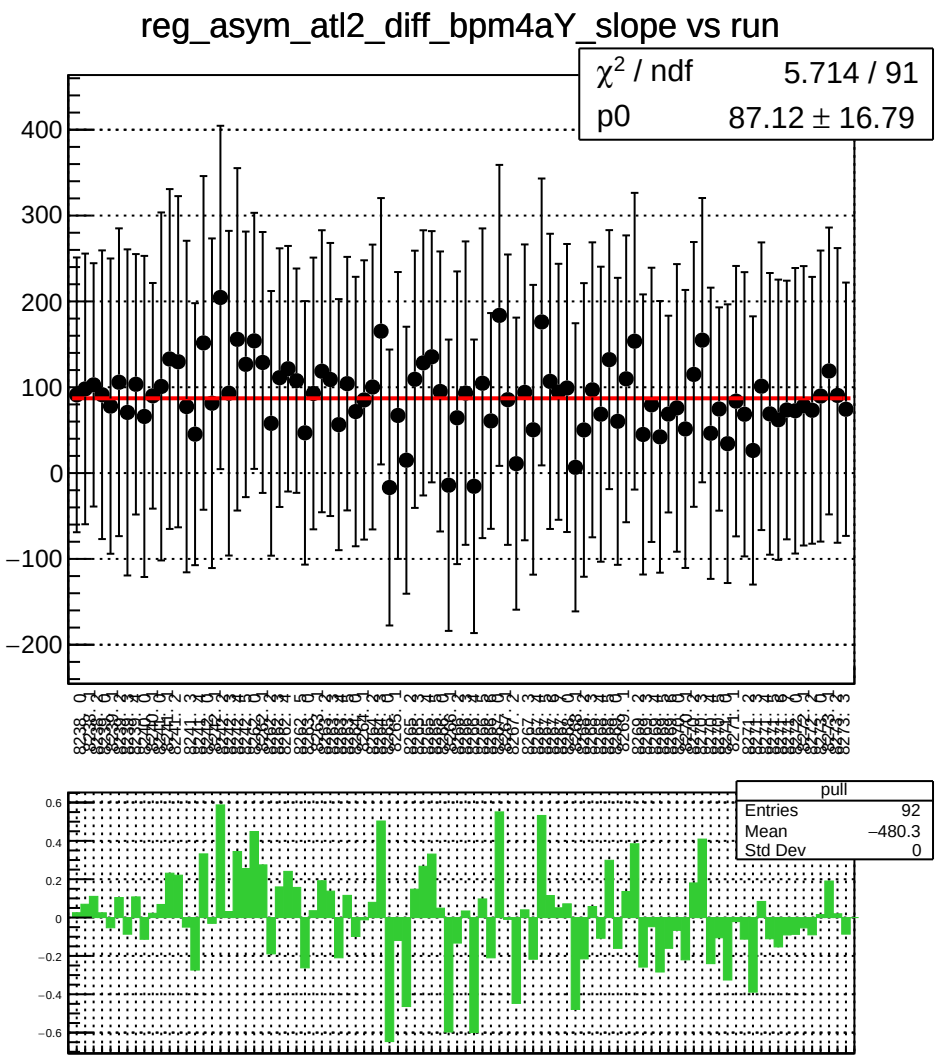

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 82.72 / 91
p0 −7.151 ± 4.423
100
50
0
−50
−100
−150
pull
Entries 92
Mean −686.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

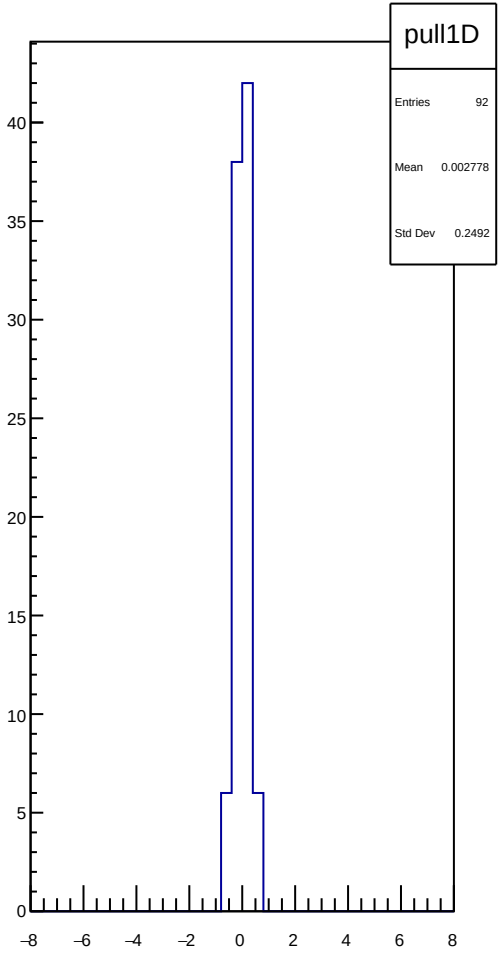

pull1D
Entries 92
Mean −0.006796
Std Dev 0.9482
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

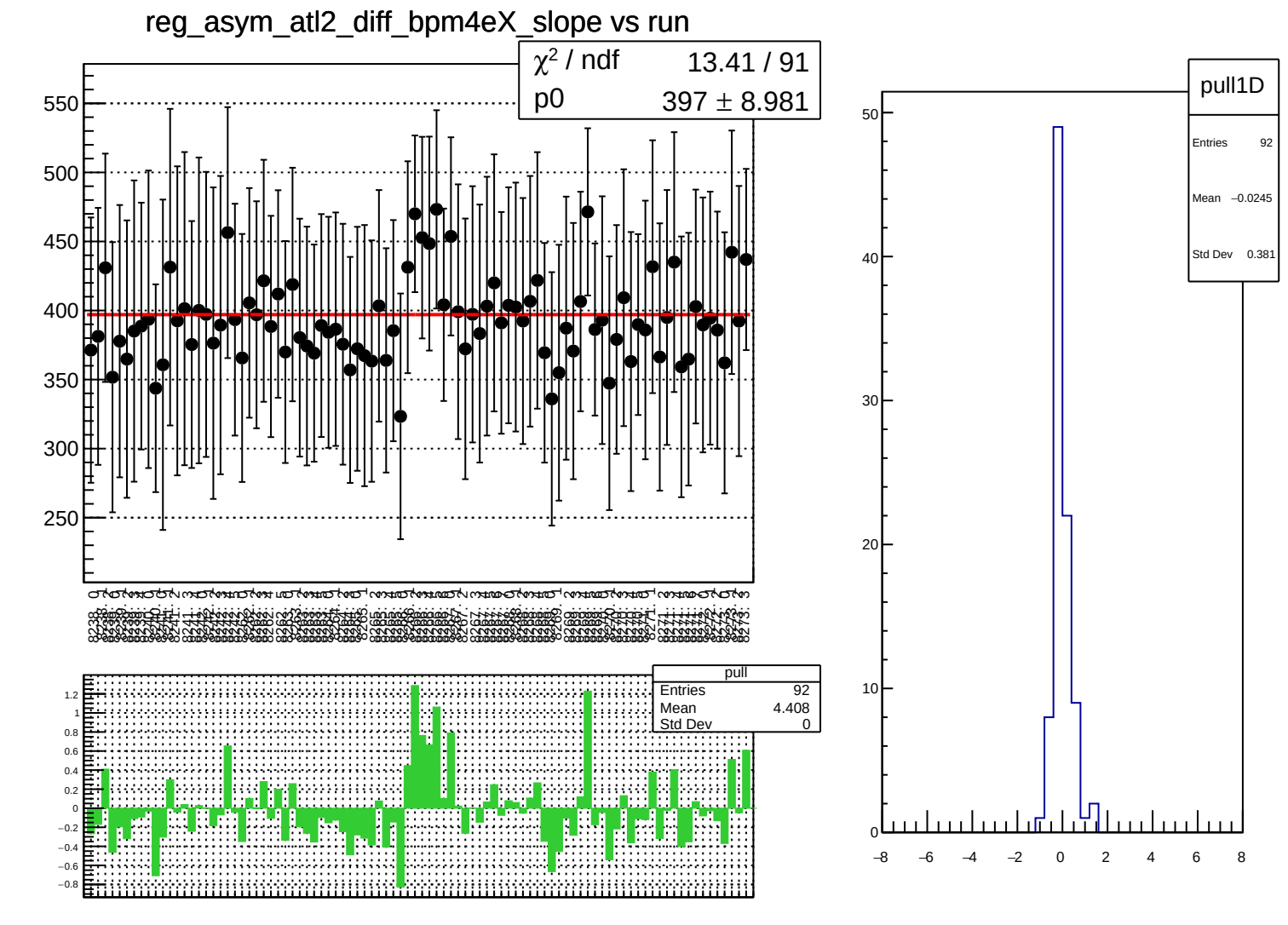

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 90.66 / 91
p0 −5.087 ± 0.2391
pull
Entries 92
Mean −1076
Std Dev 0

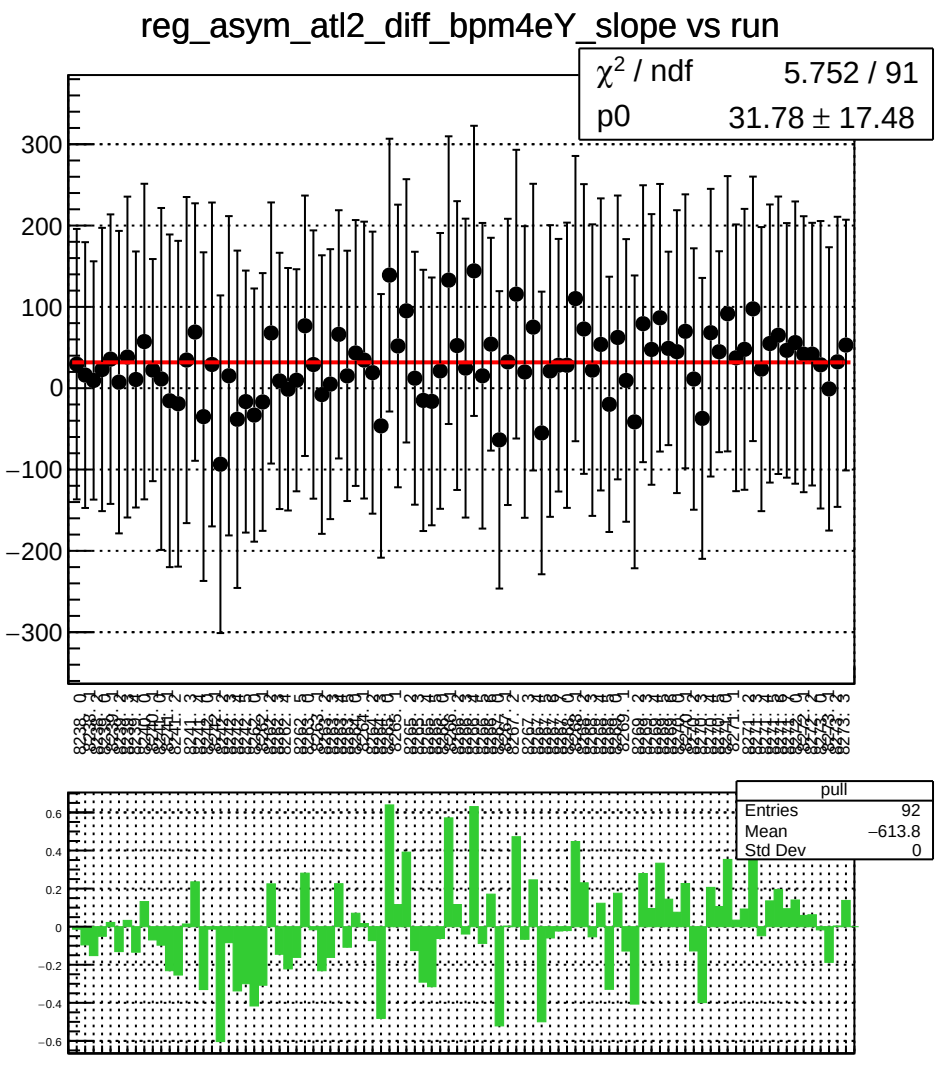

pull1D
Entries 92
Mean 0.003632
Std Dev 0.9927

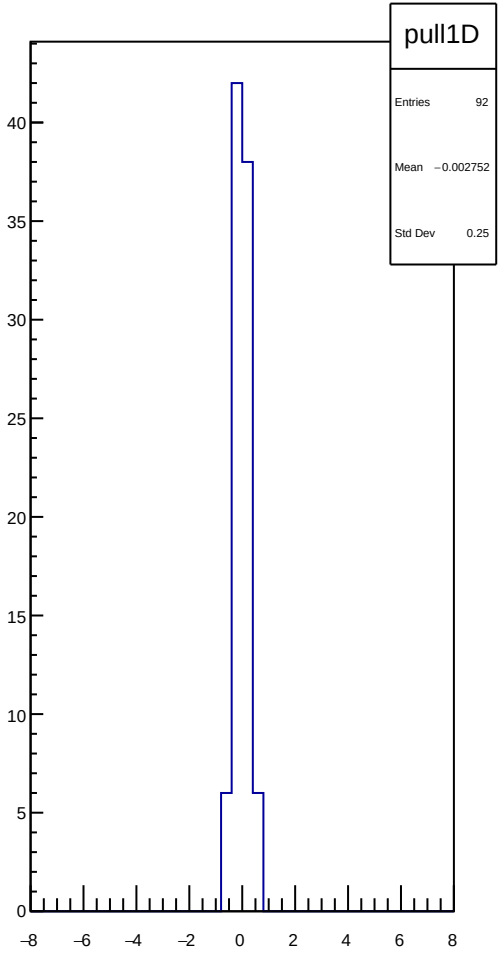

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 12.13 / 91
p0 −513.1± 7.892
pull
Entries 92
Mean 10.22
Std Dev 15.33
pull1D
Entries 92
Mean 0.01598
Std Dev 0.3627

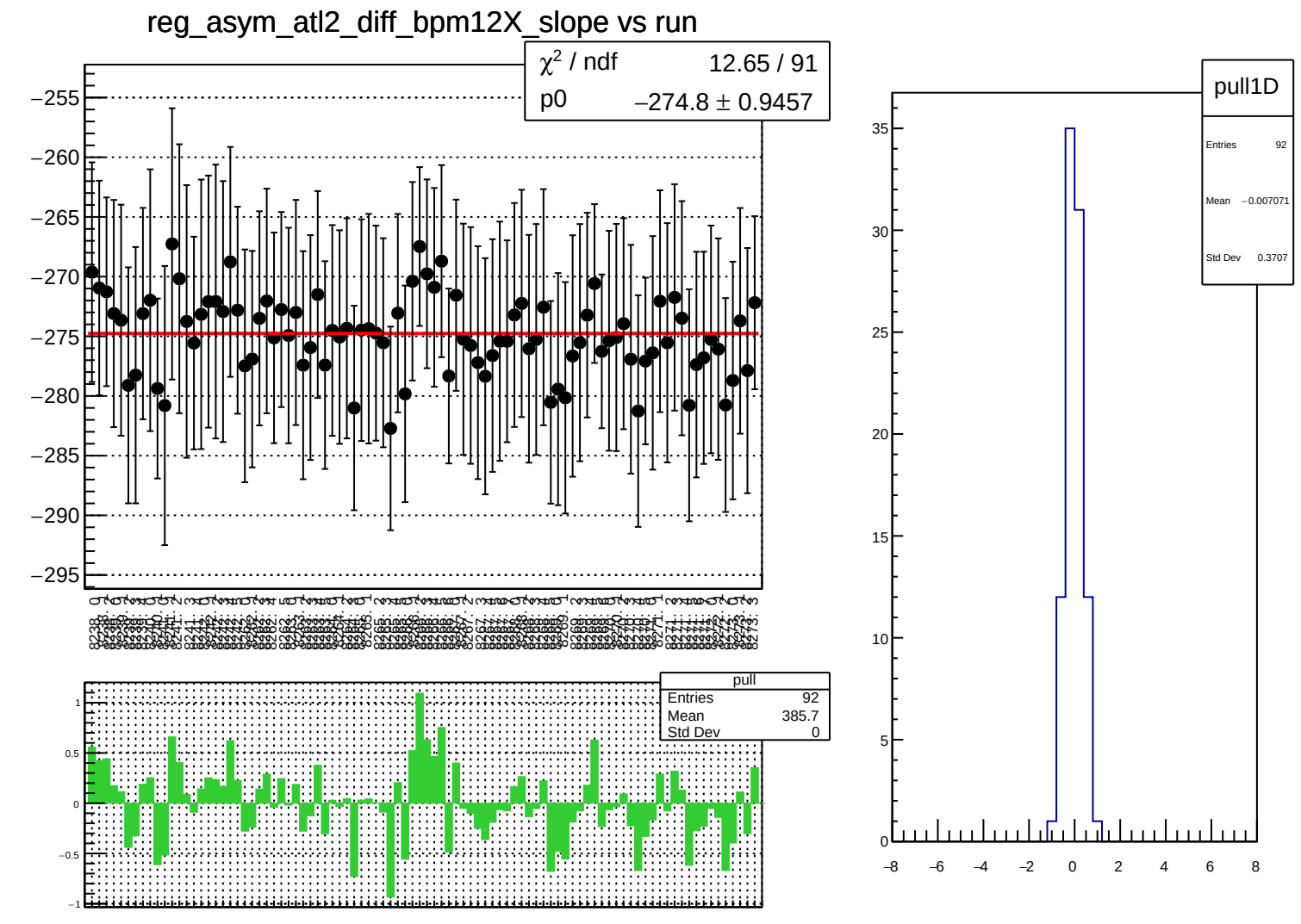

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 5.714 / 91
p0 87.12 ± 16.79
pull
Entries 92
Mean −480.3
Std Dev 0

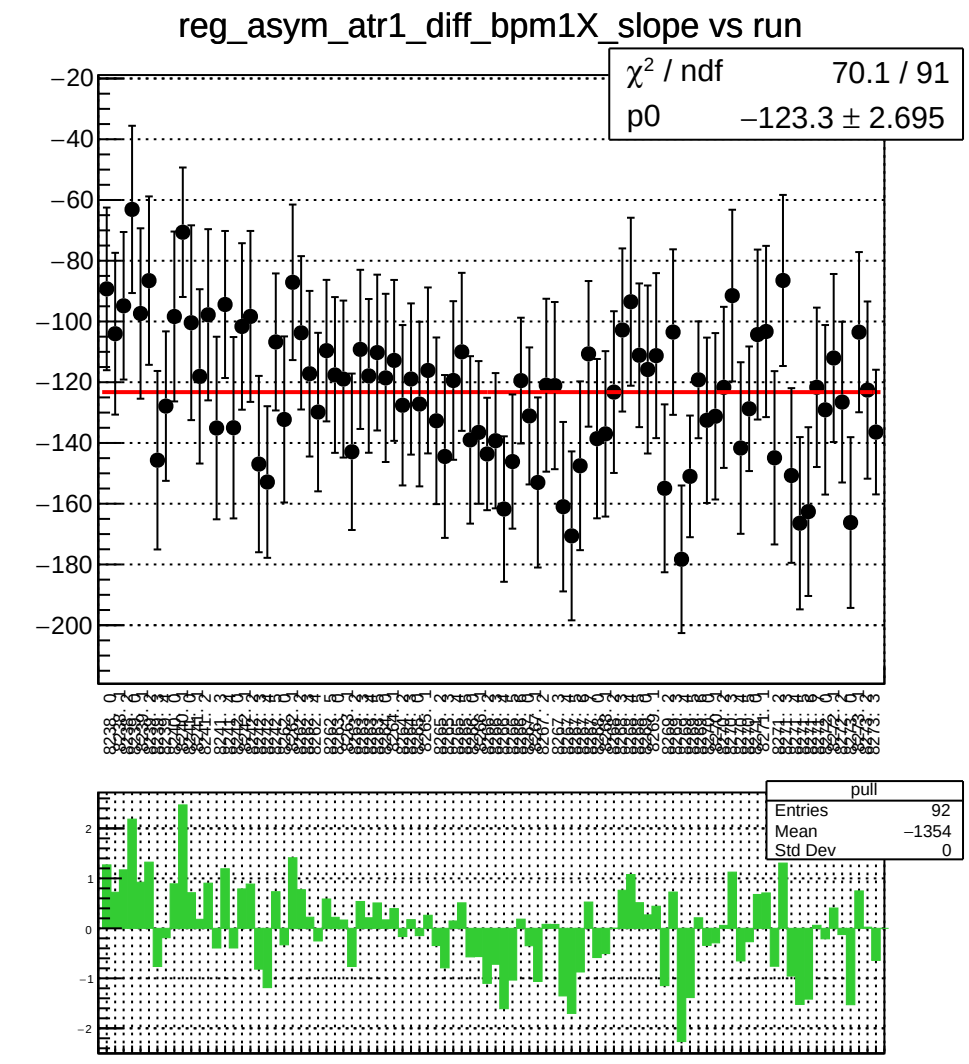

pull1D
Entries 92
Mean 0.002778
Std Dev 0.2492

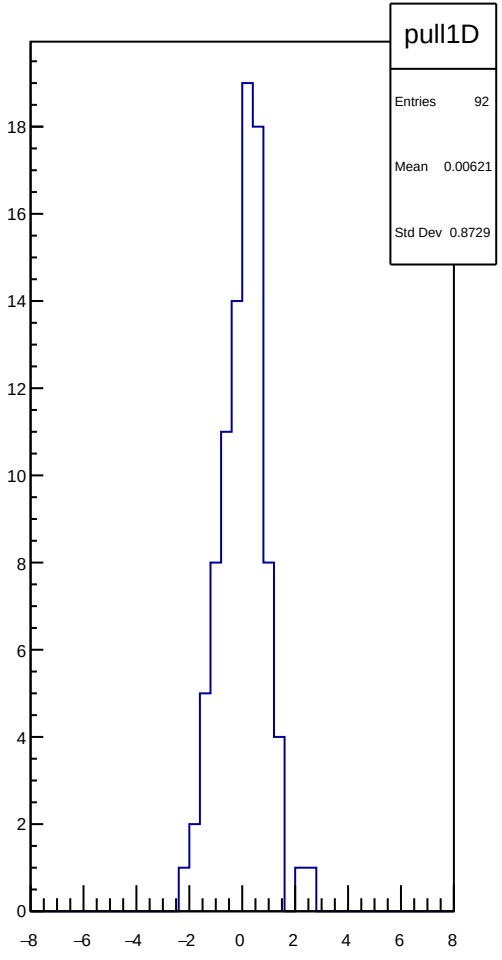

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 13.41 / 91
p0 397 ± 8.981
pull
Entries 92
Mean 4.408
Std Dev 0
pull1D
Entries 92
Mean −0.0245
Std Dev 0.381

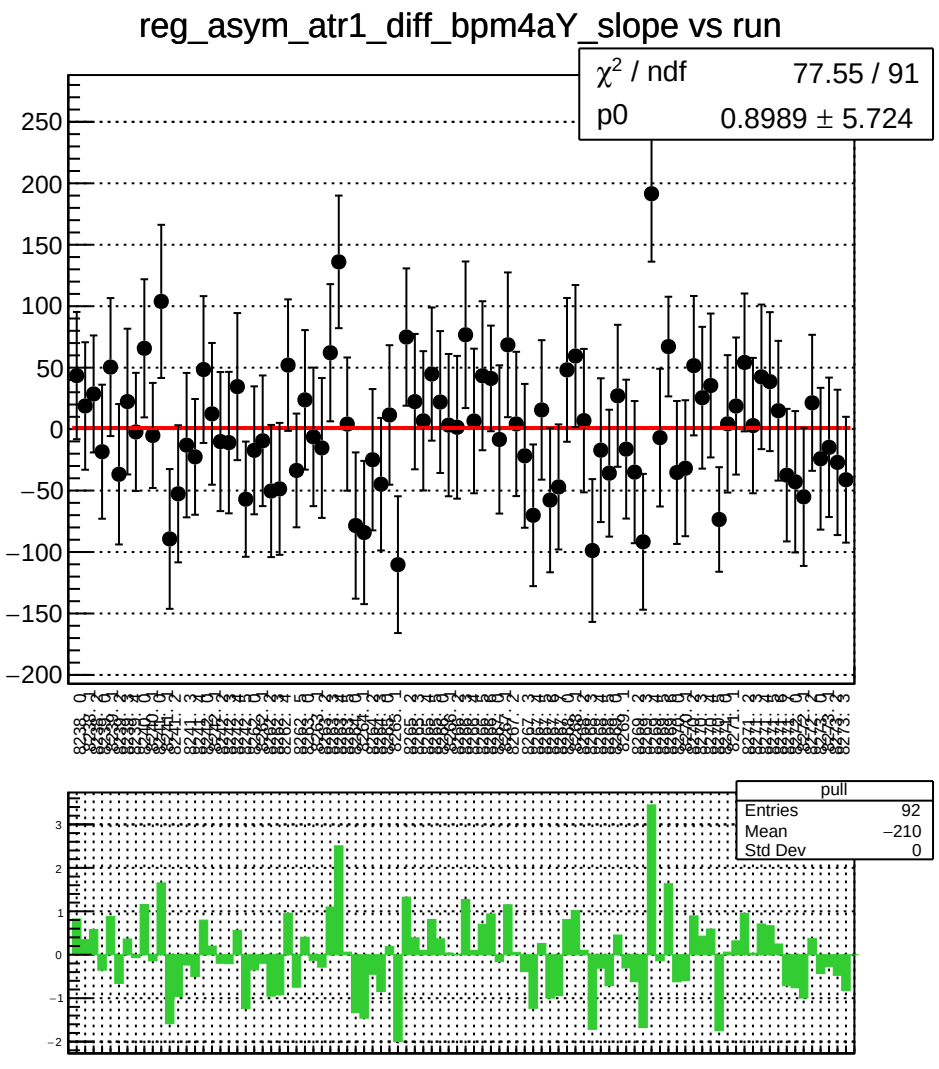

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.752 / 91
p0 31.78 ± 17.48
pull
Entries 92
Mean −613.8
Std Dev 0

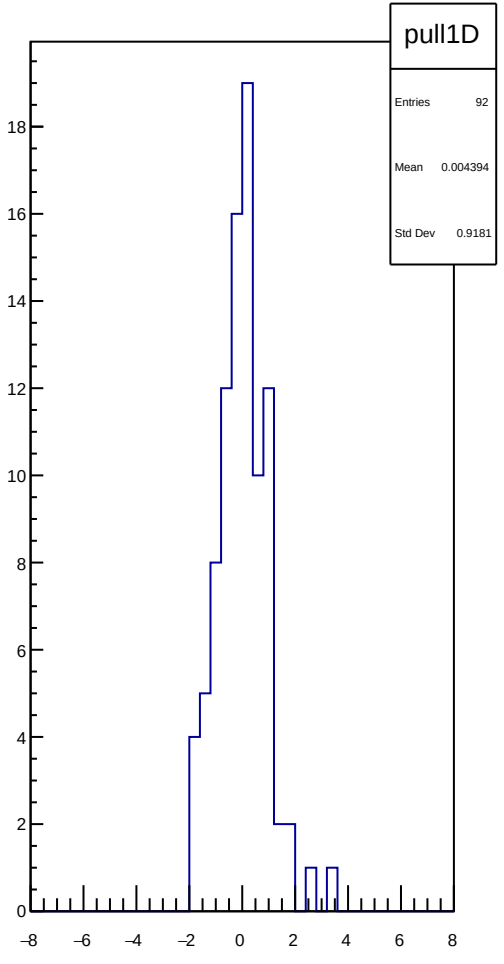

pull1D
Entries 92
Mean −0.002752
Std Dev 0.25

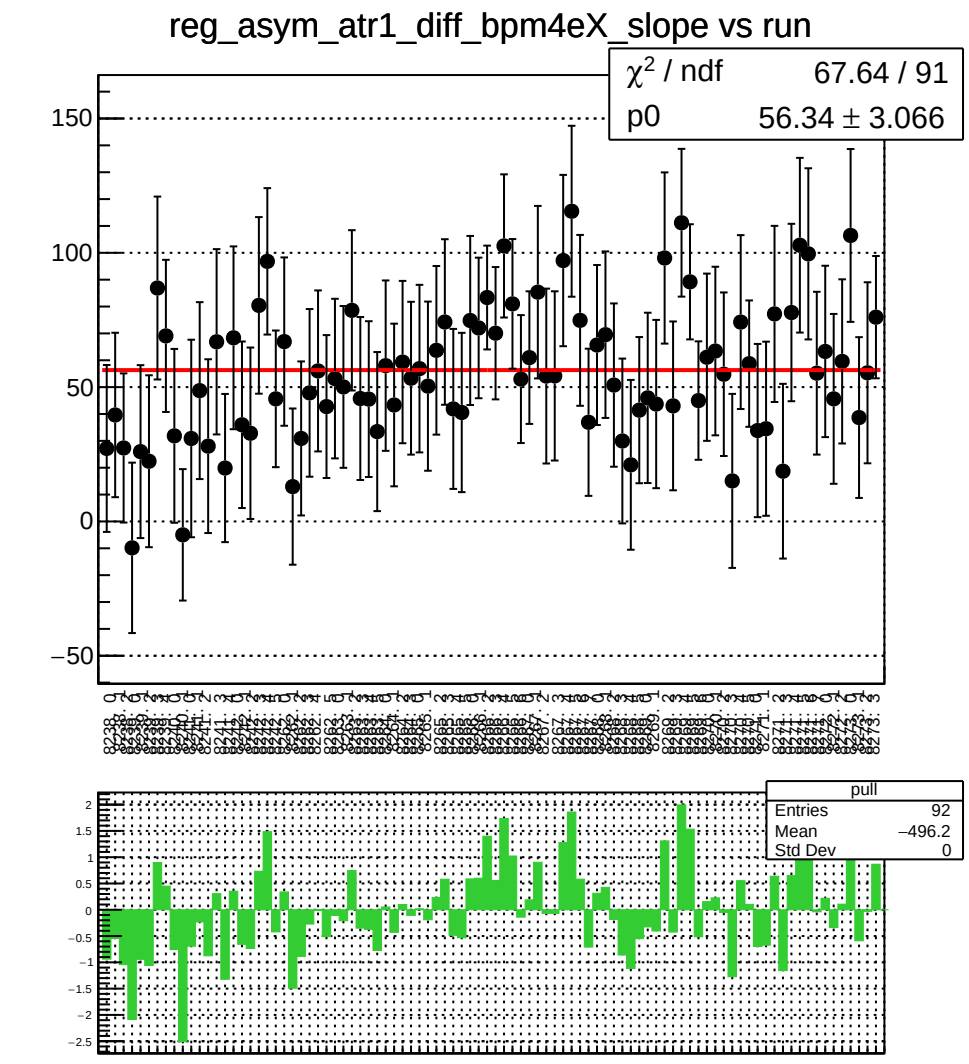

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 12.65 / 91
p0 −274.8 ± 0.9457
pull
Entries 92
Mean 385.7
Std Dev 0
pull1D
Entries 92
Mean −0.007071
Std Dev 0.3707

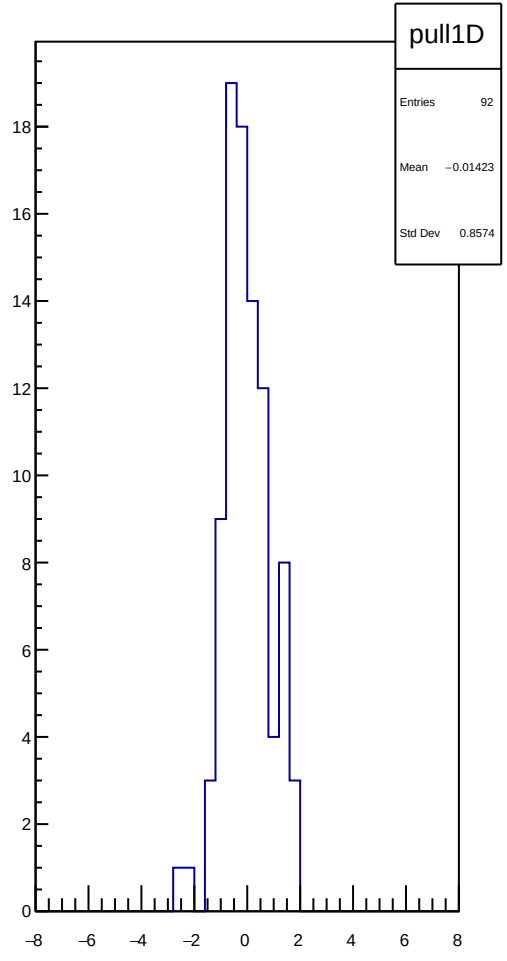

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 70.1 / 91
p0 −123.3 ± 2.695
pull
Entries 92
Mean −1354
Std Dev 0

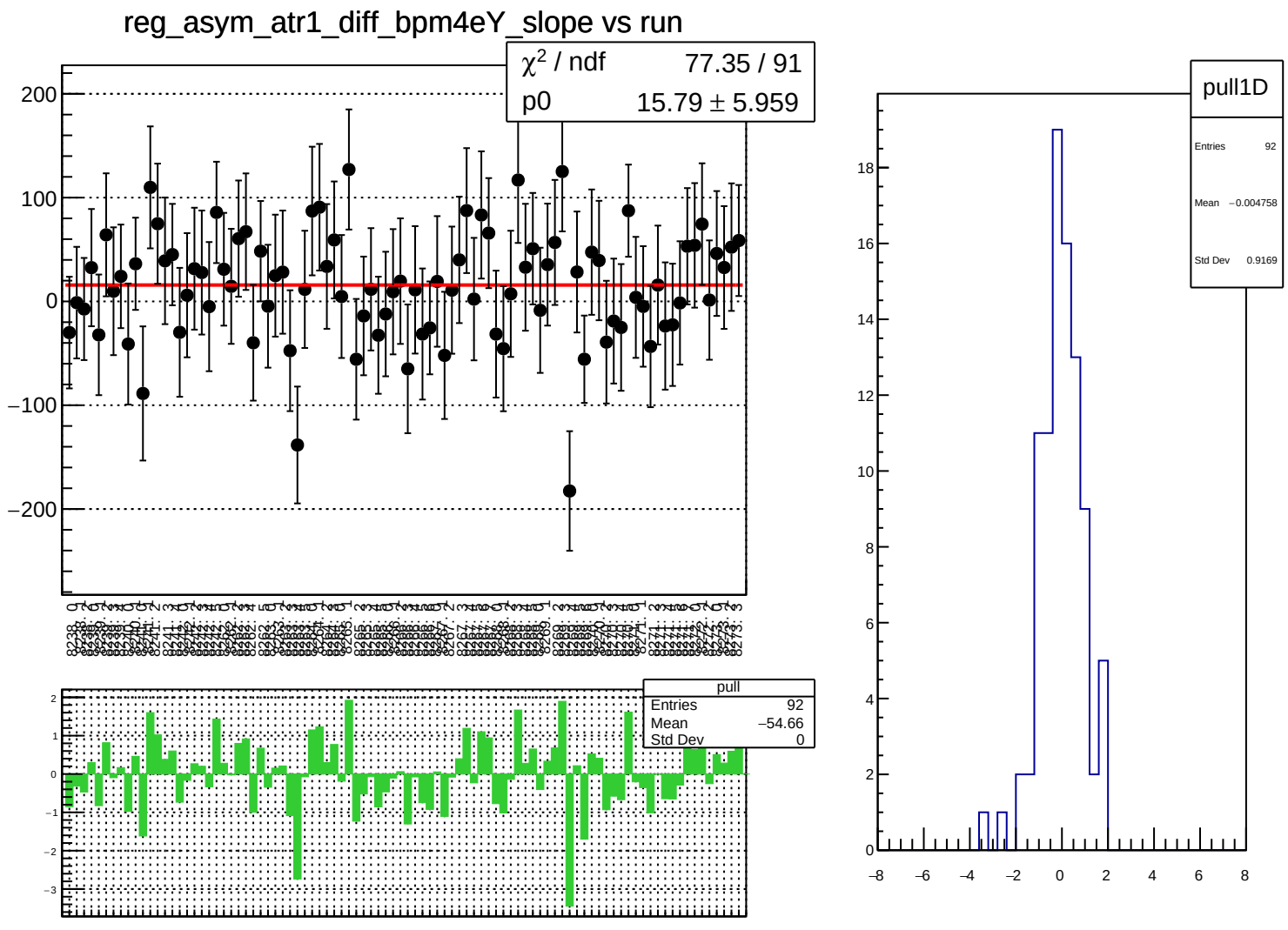

pull1D
Entries 92
Mean 0.00621
Std Dev 0.8729

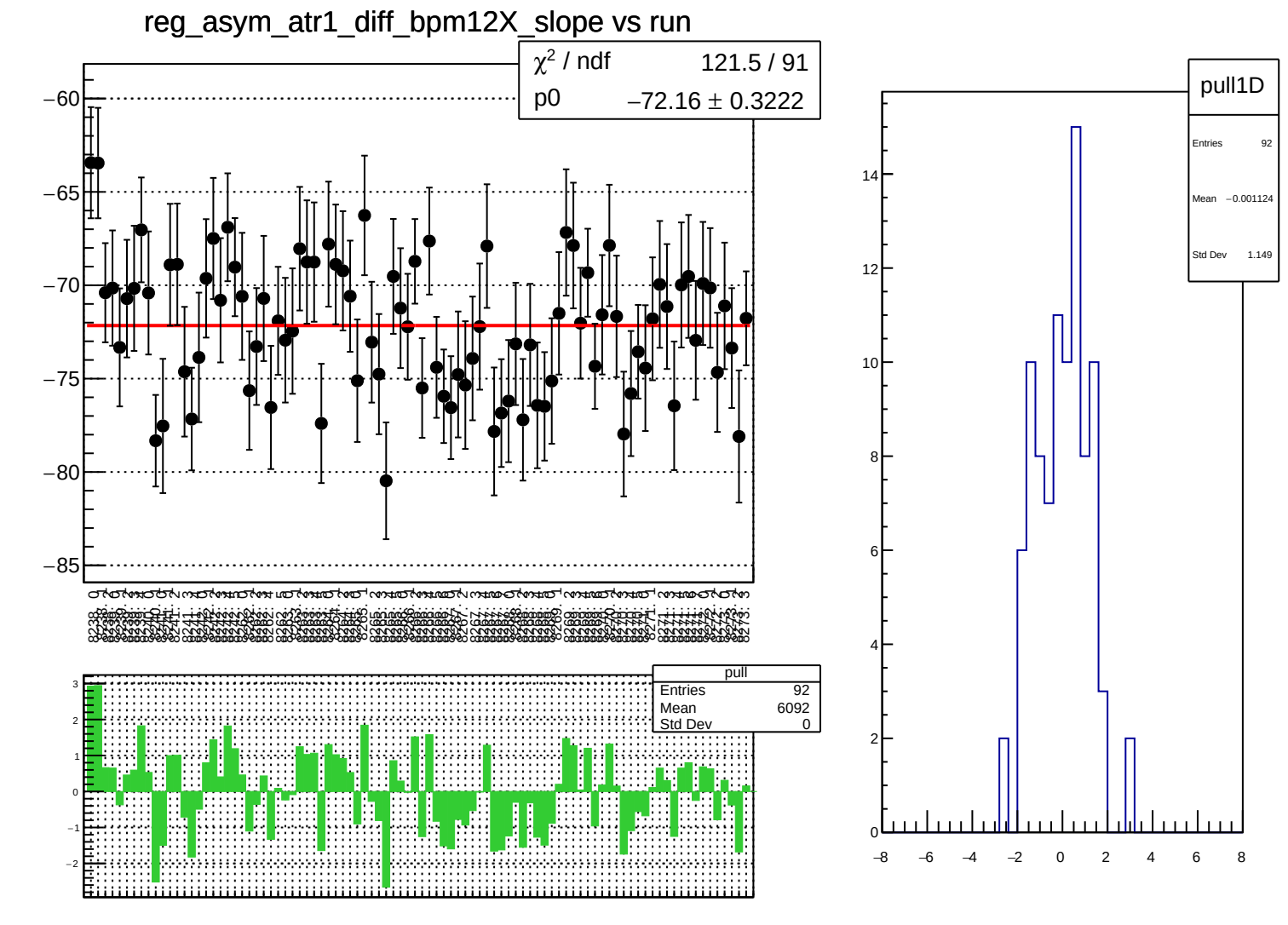

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 77.55 / 91
p0 0.8989 ± 5.724
pull
Entries 92
Mean −210
Std Dev 0

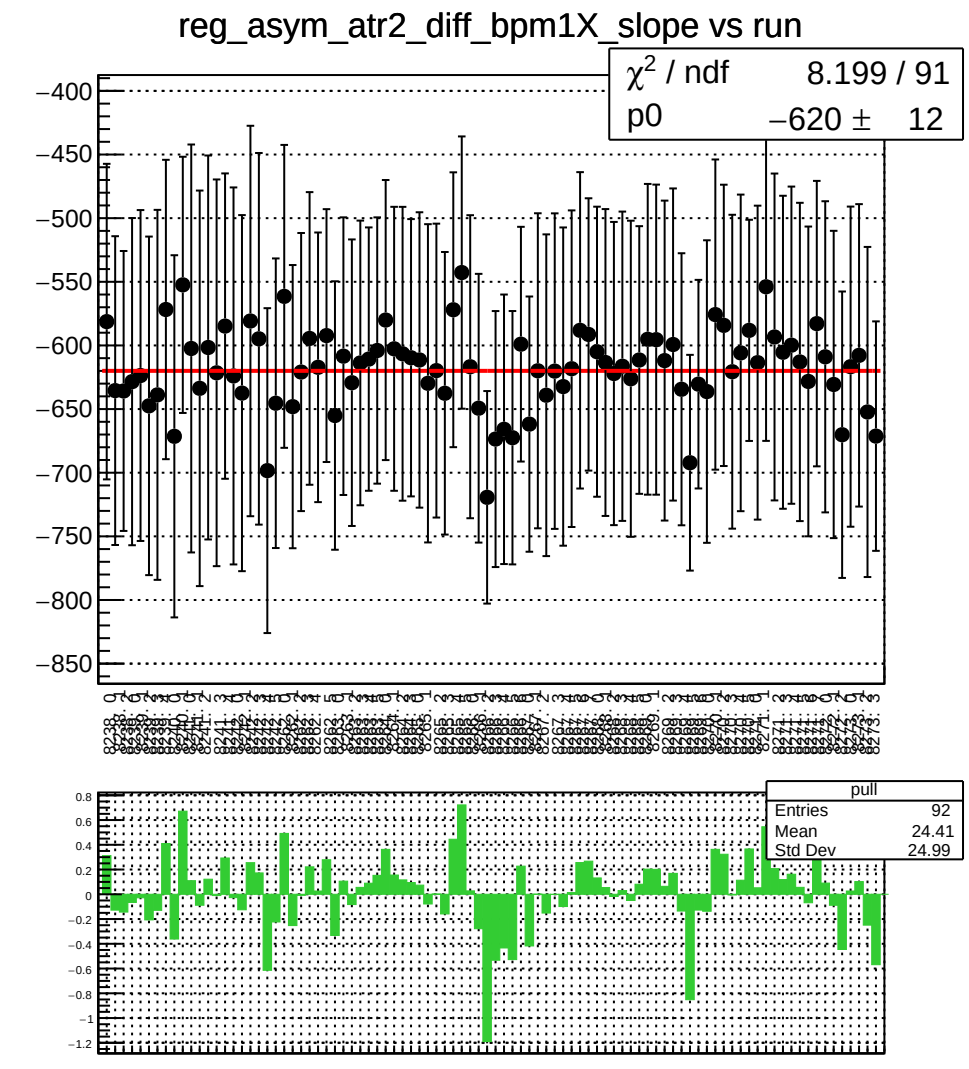

pull1D
Entries 92
Mean 0.004394
Std Dev 0.9181

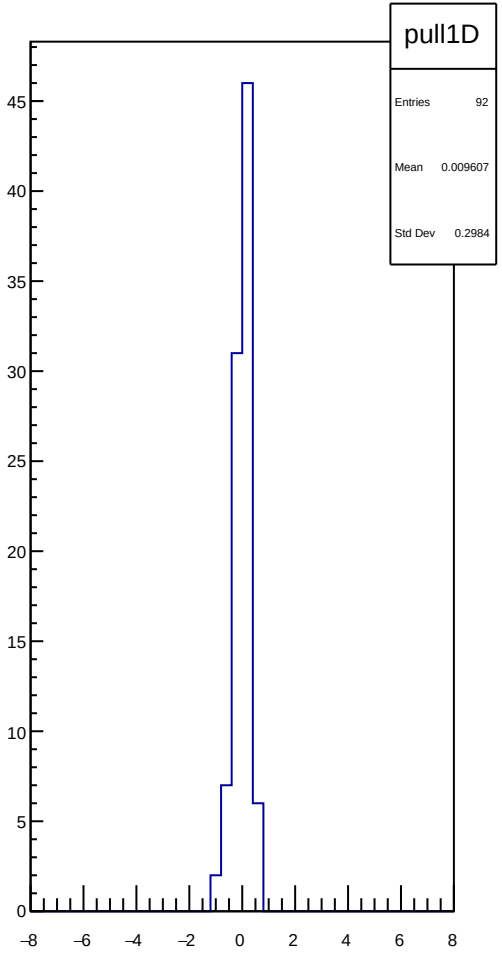

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 67.64 / 91
p0 56.34 ± 3.066
150
100
50
0
−50
pull
Entries 92
Mean −496.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

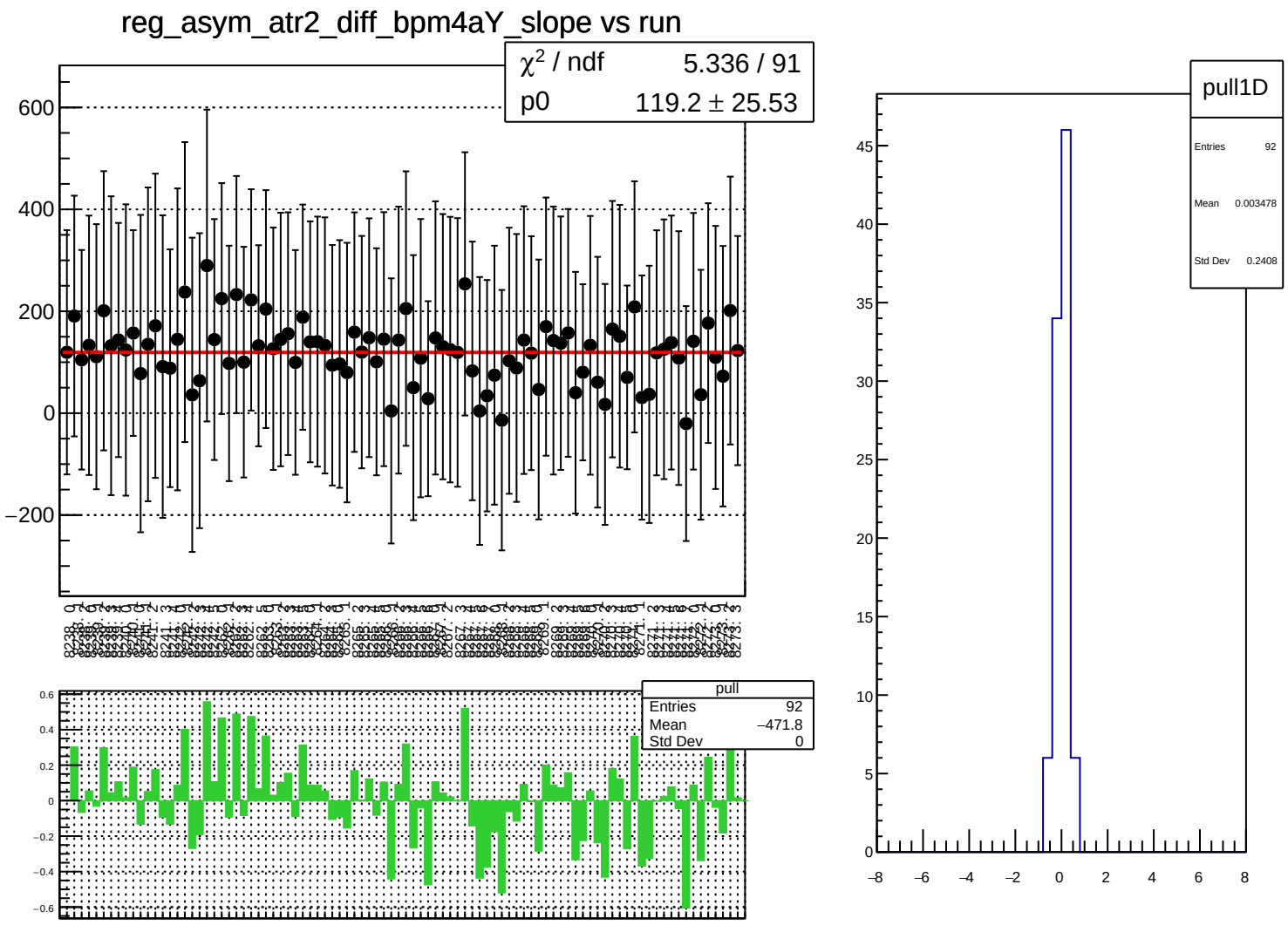

pull1D
Entries 92
Mean −0.01423
Std Dev 0.8574
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

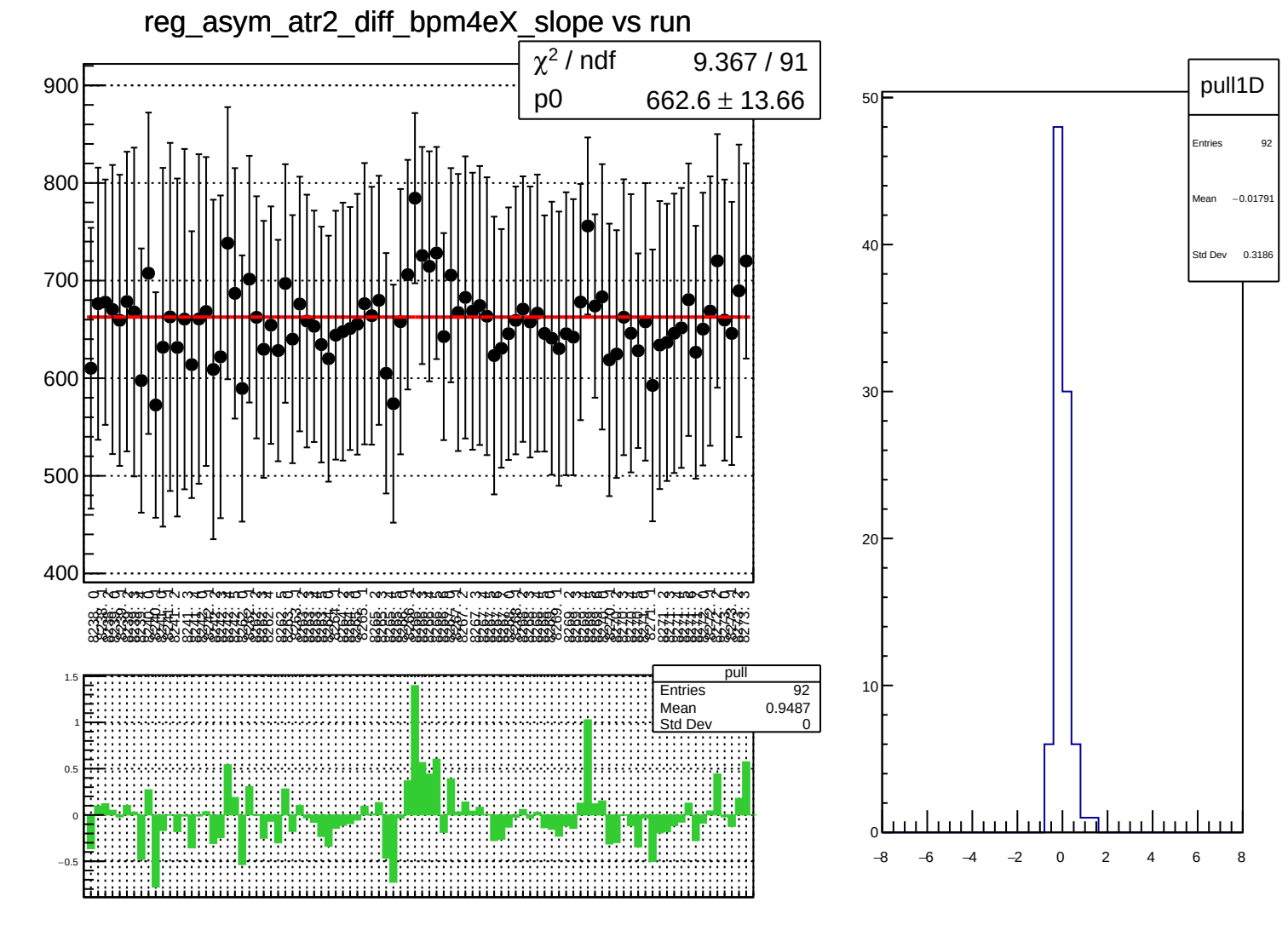

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 77.35 / 91
p0 15.79 ± 5.959
200
100
0
−100
−200
pull
Entries 92
Mean −54.66
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.004758
Std Dev 0.9169
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

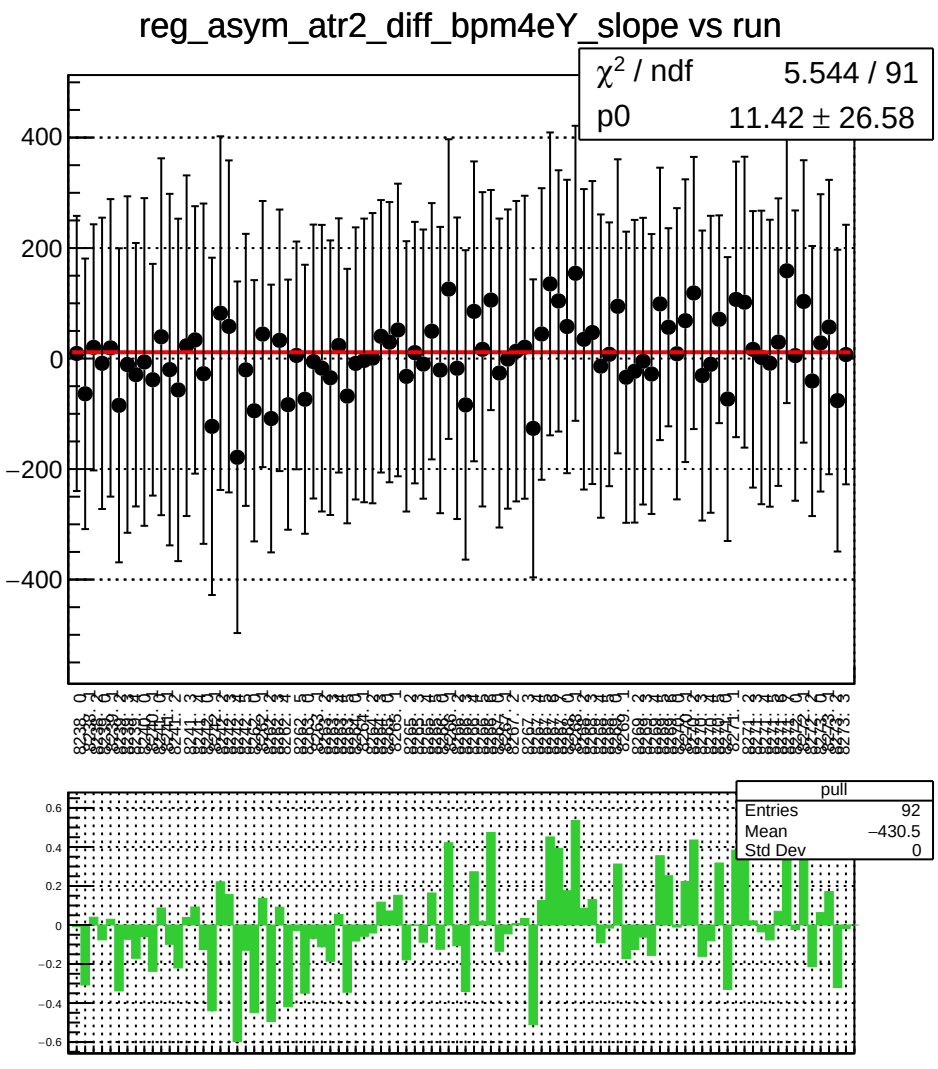

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 121.5 / 91
p0 −72.16 ± 0.3222
−60
−65
−70
−75
−80
−85
pull
Entries 92
Mean 6092
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.001124
Std Dev 1.149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

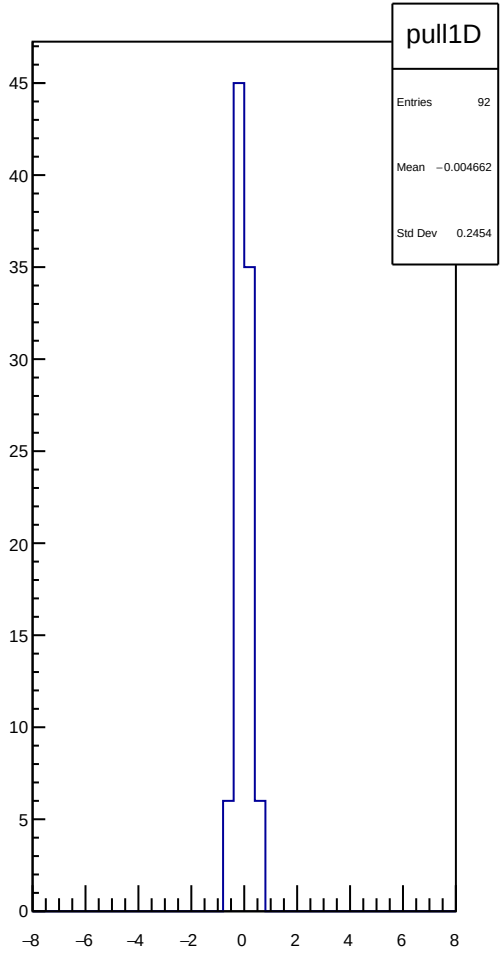

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 8.199 / 91
p0 −620 ± 12
pull
Entries 92
Mean 24.41
Std Dev 24.99

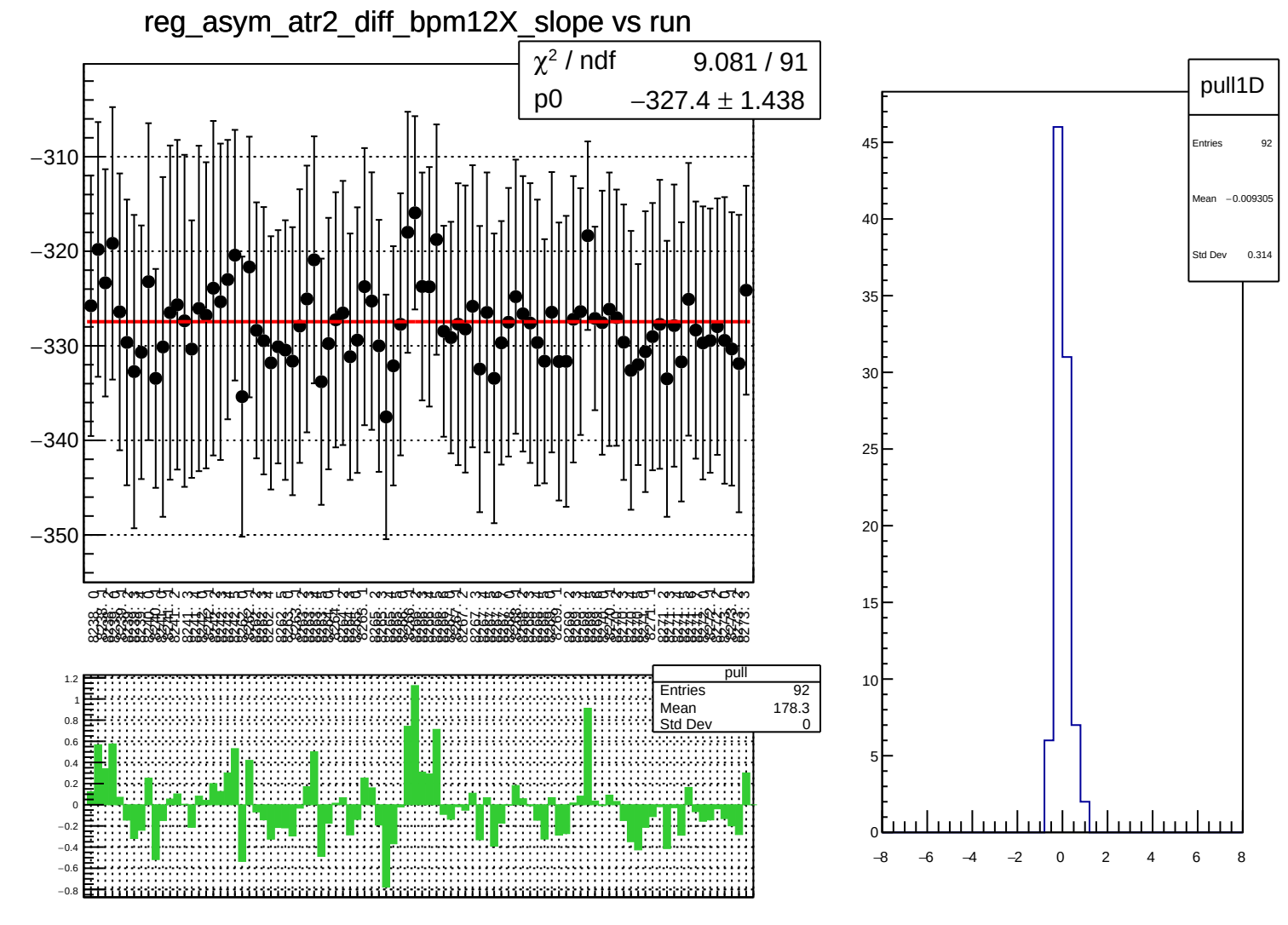

pull1D
Entries 92
Mean 0.009607
Std Dev 0.2984

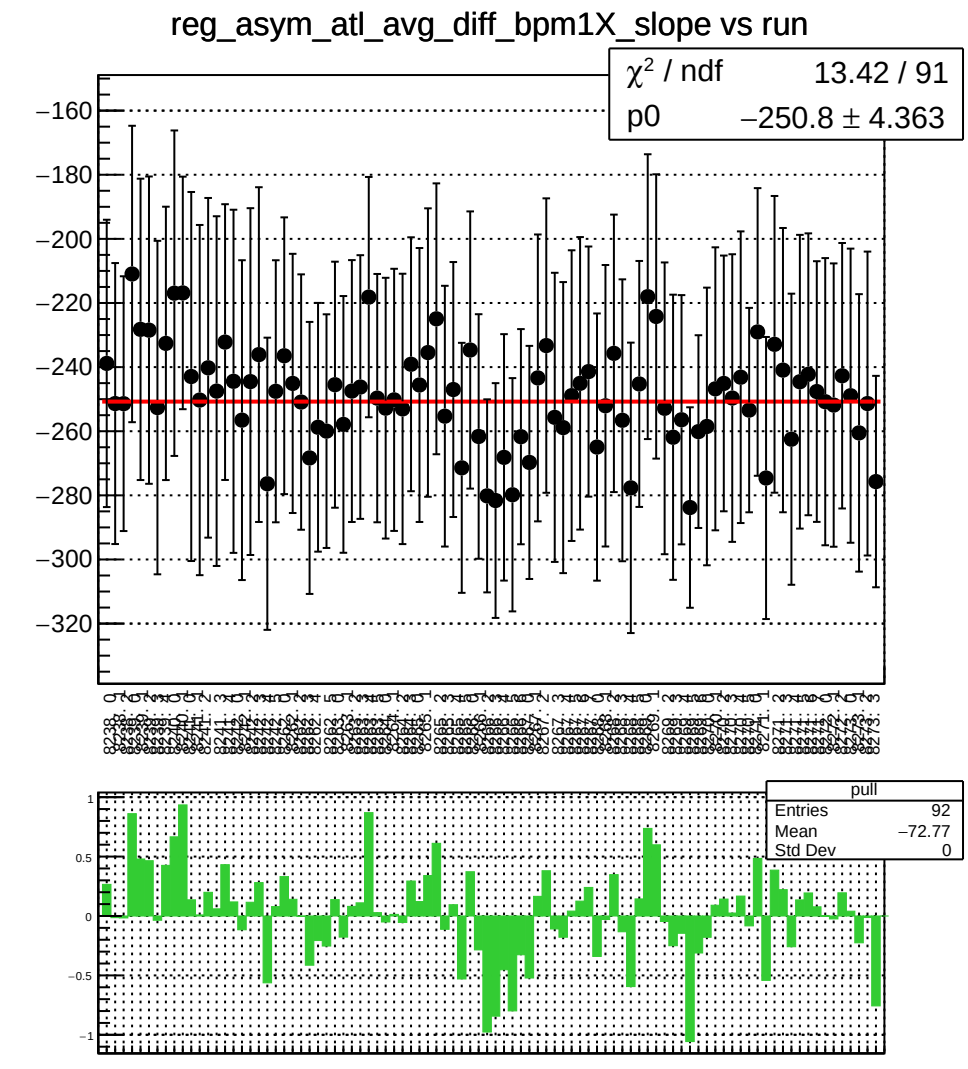

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 5.336 / 91
p0 119.2 ± 25.53
600
400
200
0
−200
pull
Entries 92
Mean −471.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean 0.003478
Std Dev 0.2408
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

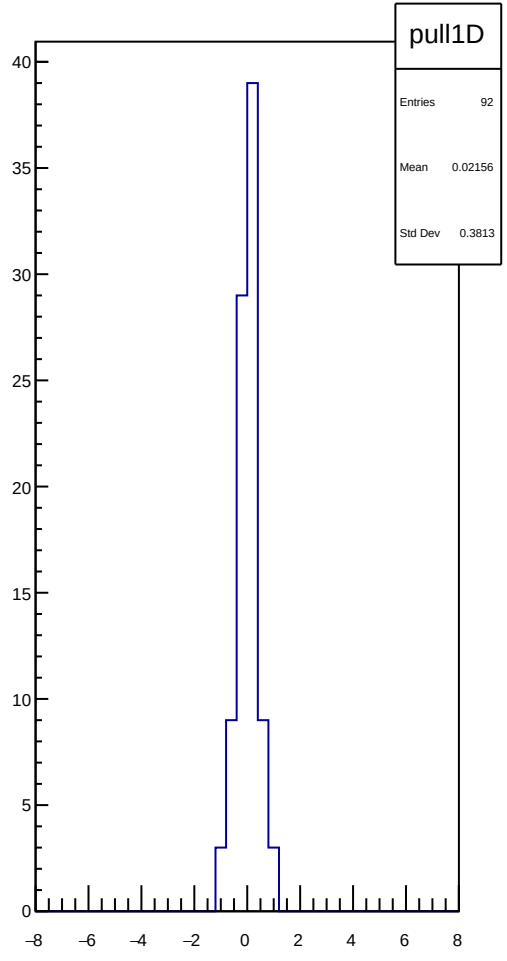

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 9.367 / 91
p0 662.6 ± 13.66
900
800
700
600
500
400
pull
Entries 92
Mean 0.9487
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 92
Mean −0.01791
Std Dev 0.3186
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

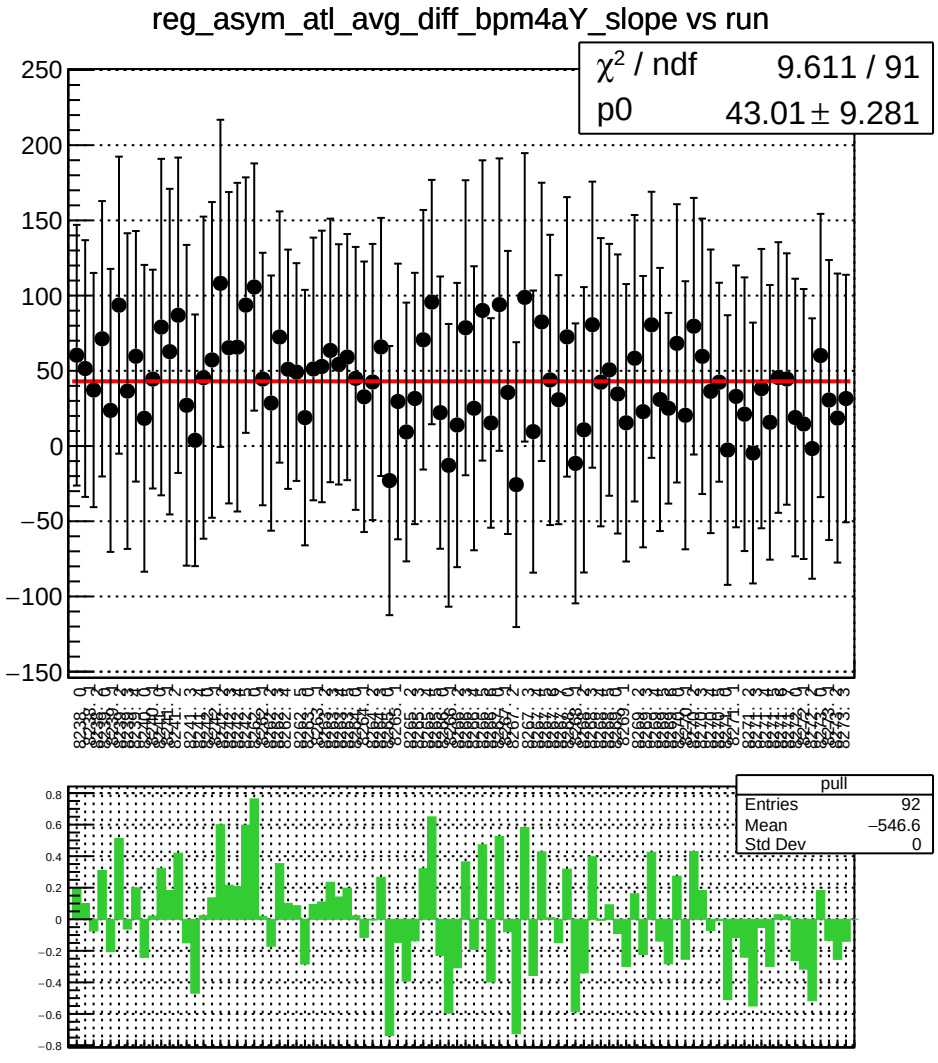

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 5.544 / 91
p0 11.42 ± 26.58
400
200
0
−200
−400
pull
Entries 92
Mean −430.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

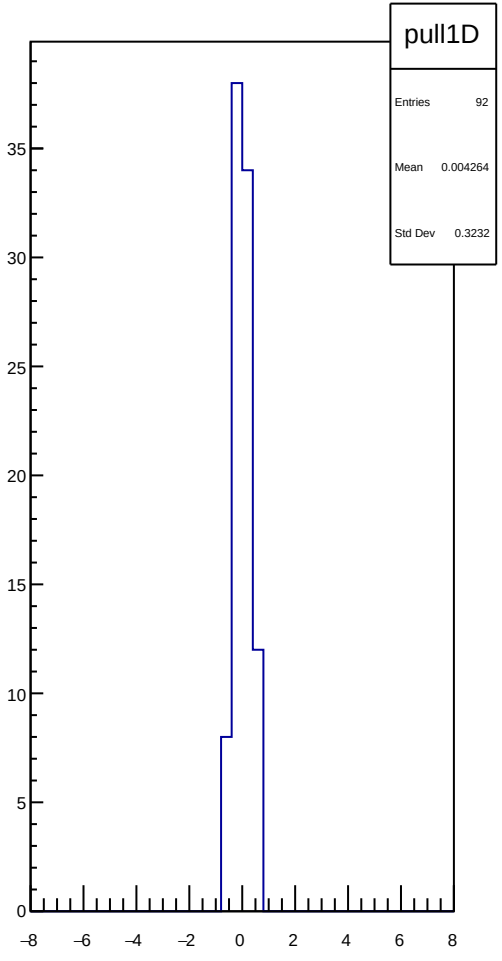

pull1D
Entries 92
Mean −0.004662
Std Dev 0.2454
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

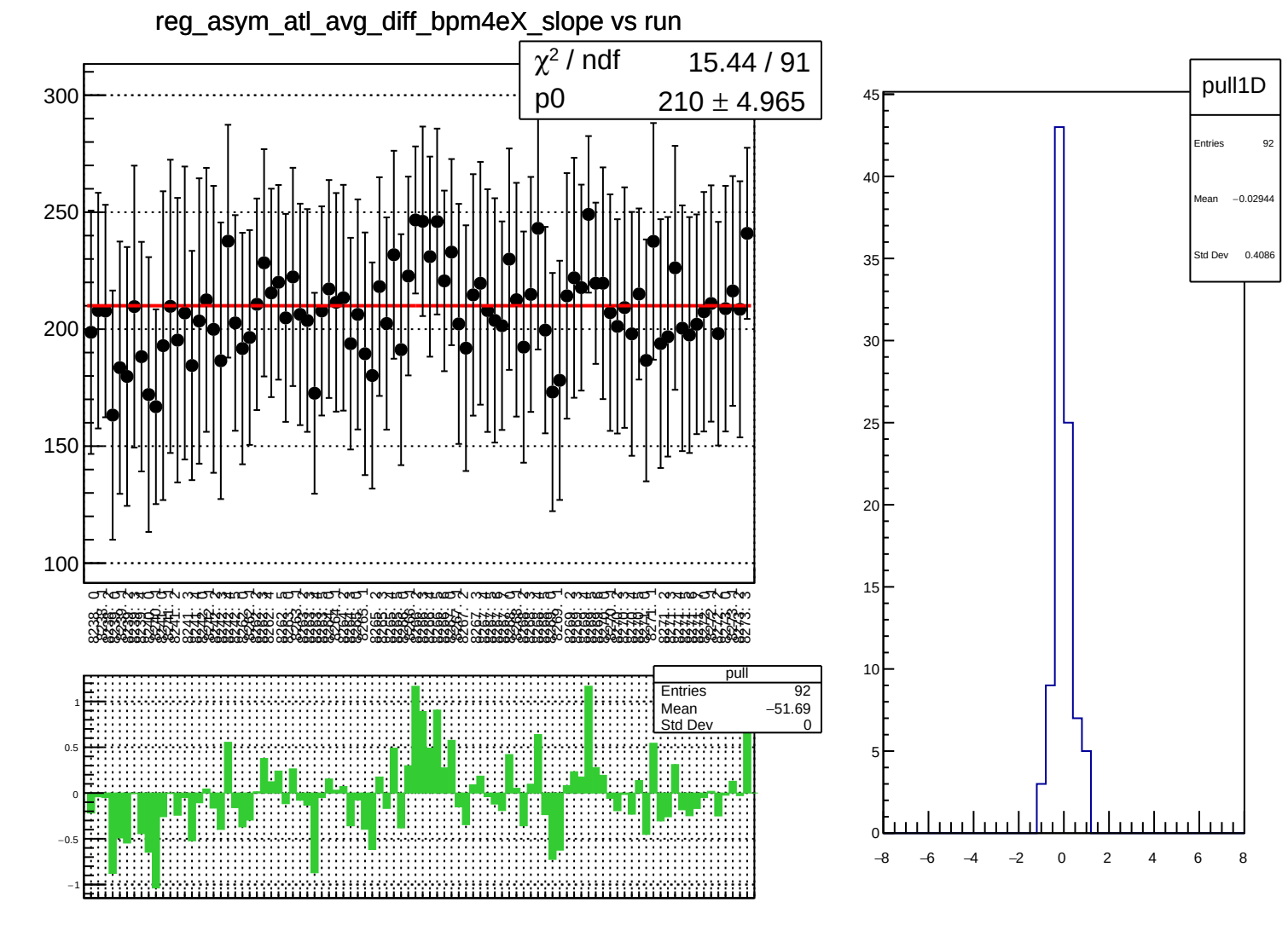

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 9.081 / 91
p0 −327.4 ± 1.438
−310
−320
−330
−340
−350
pull
Entries 92
Mean 178.3
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean −0.009305
Std Dev 0.314
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

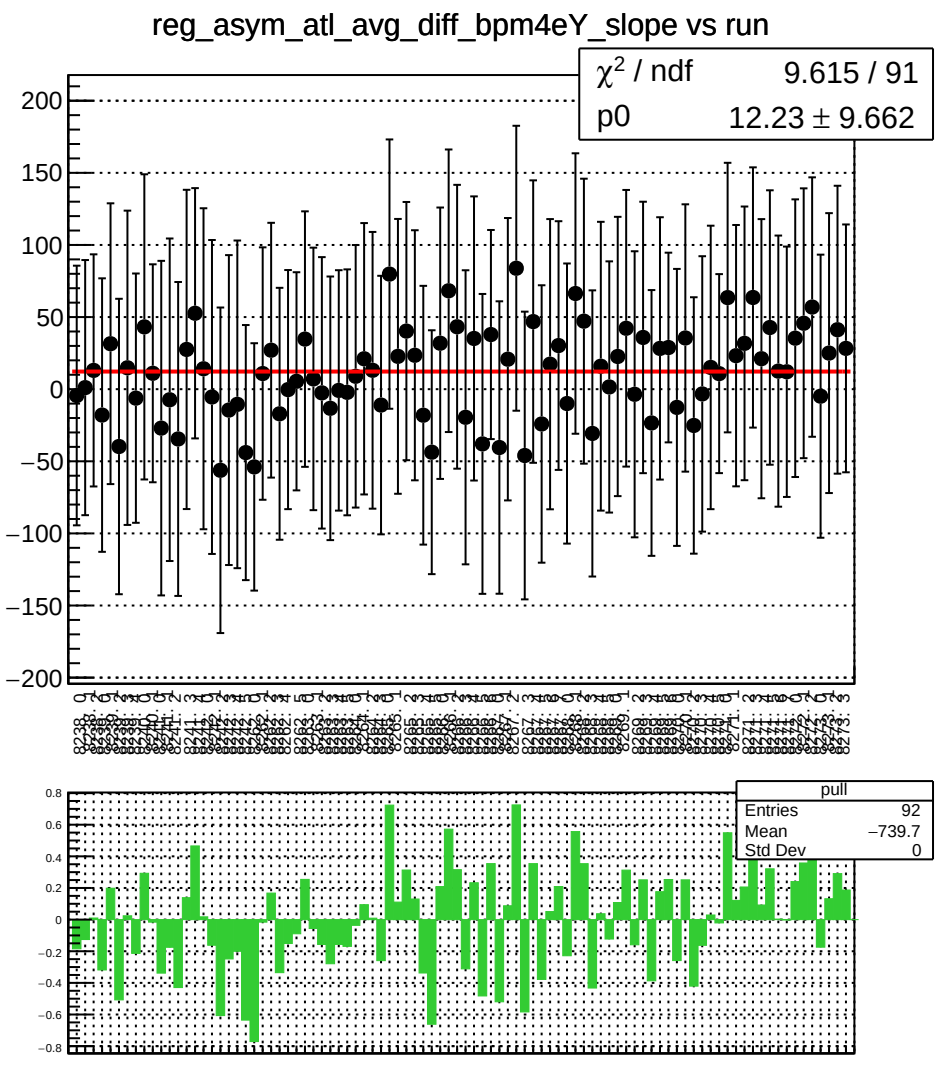

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 13.42 / 91
p0 −250.8 ± 4.363
−160
−180
−200
−220
−240
−260
−280
−300
−320
pull
Entries 92
Mean −72.77
Std Dev 0
1
0.5
0
−0.5
−1

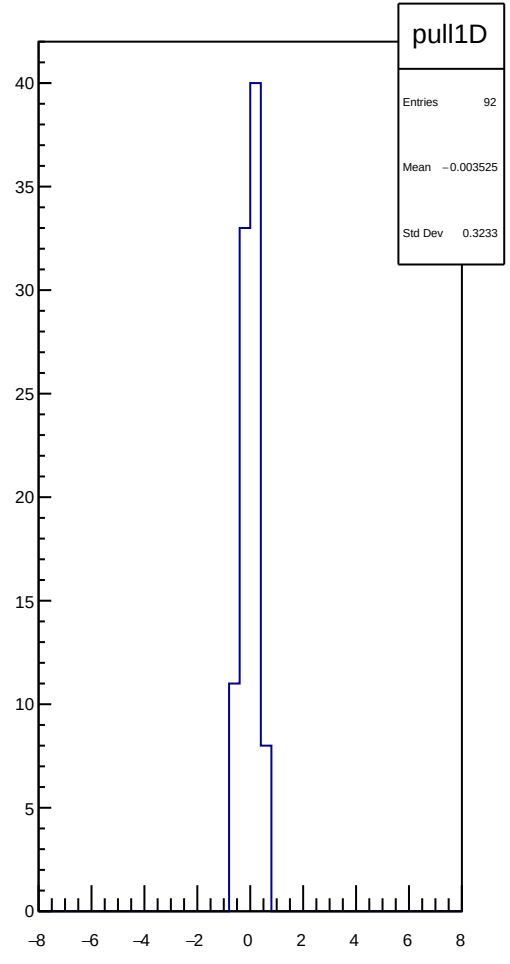

pull1D
Entries 92
Mean 0.02156
Std Dev 0.3813
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

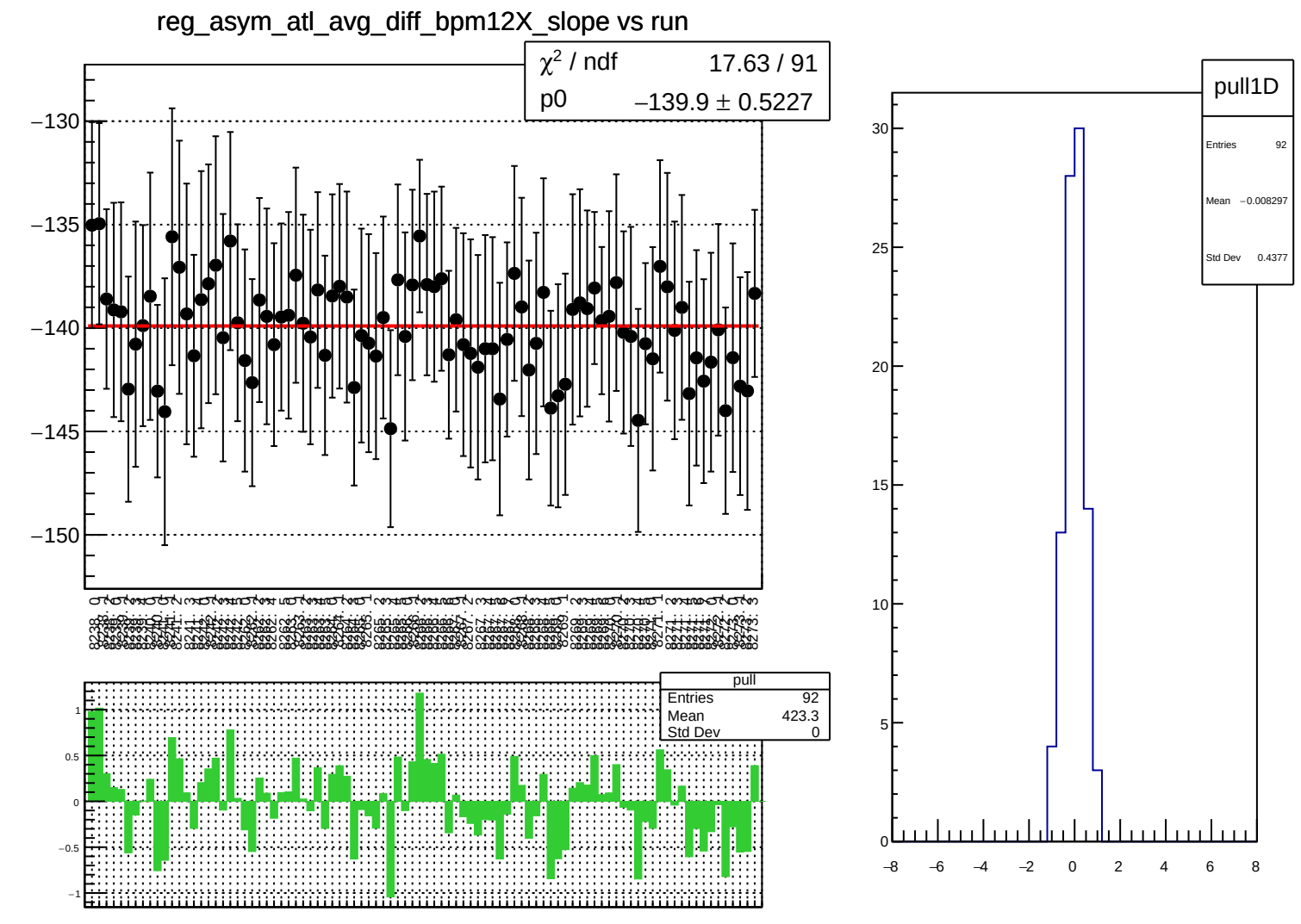

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.611 / 91
p0 43.01 ± 9.281
pull
Entries 92
Mean −546.6
Std Dev 0

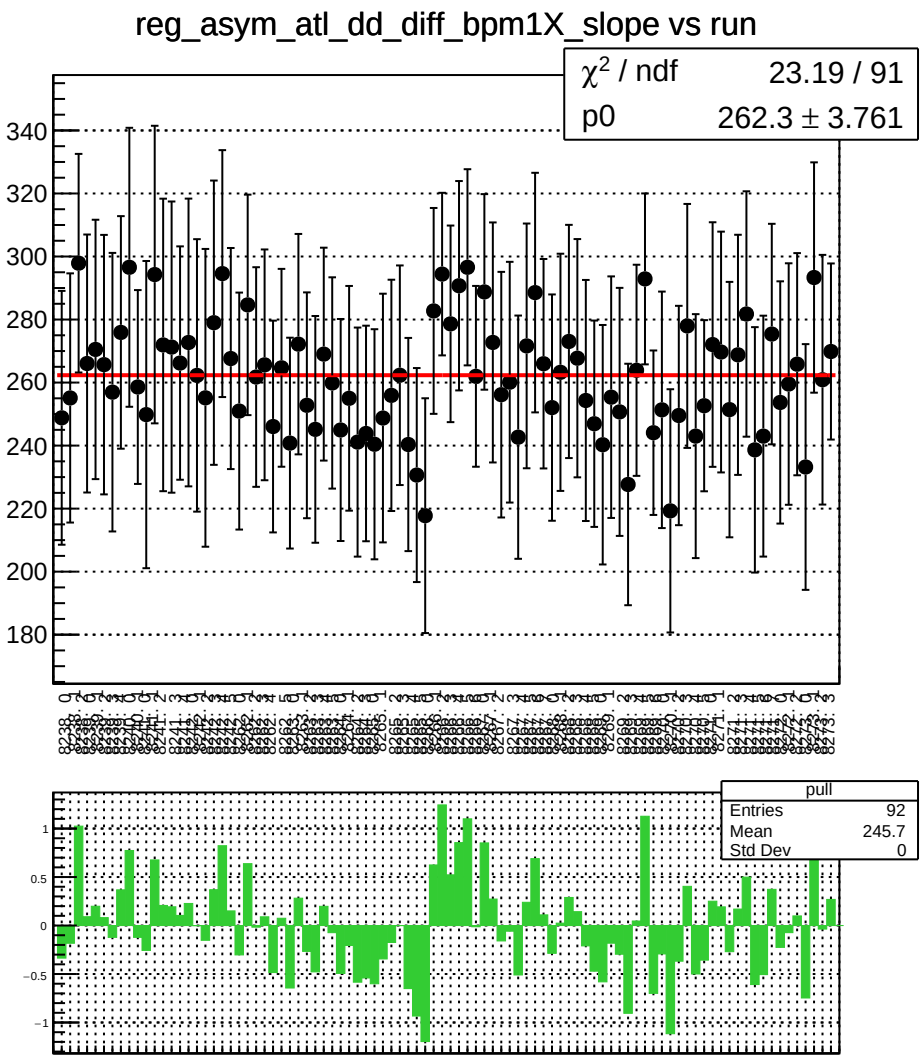

pull1D
Entries 92
Mean 0.004264
Std Dev 0.3232

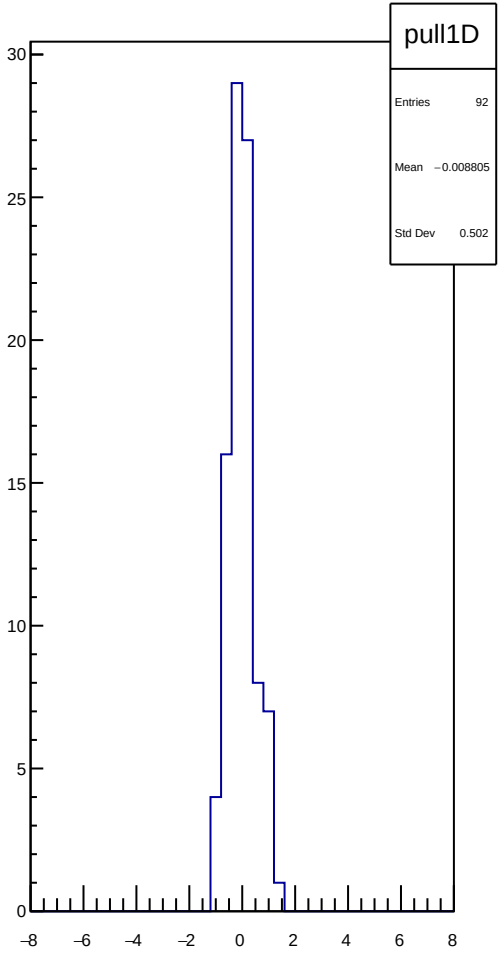

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.44 / 91
p0 210 ± 4.965
300
250
200
150
100
pull
Entries 92
Mean −51.69
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.02944
Std Dev 0.4086
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

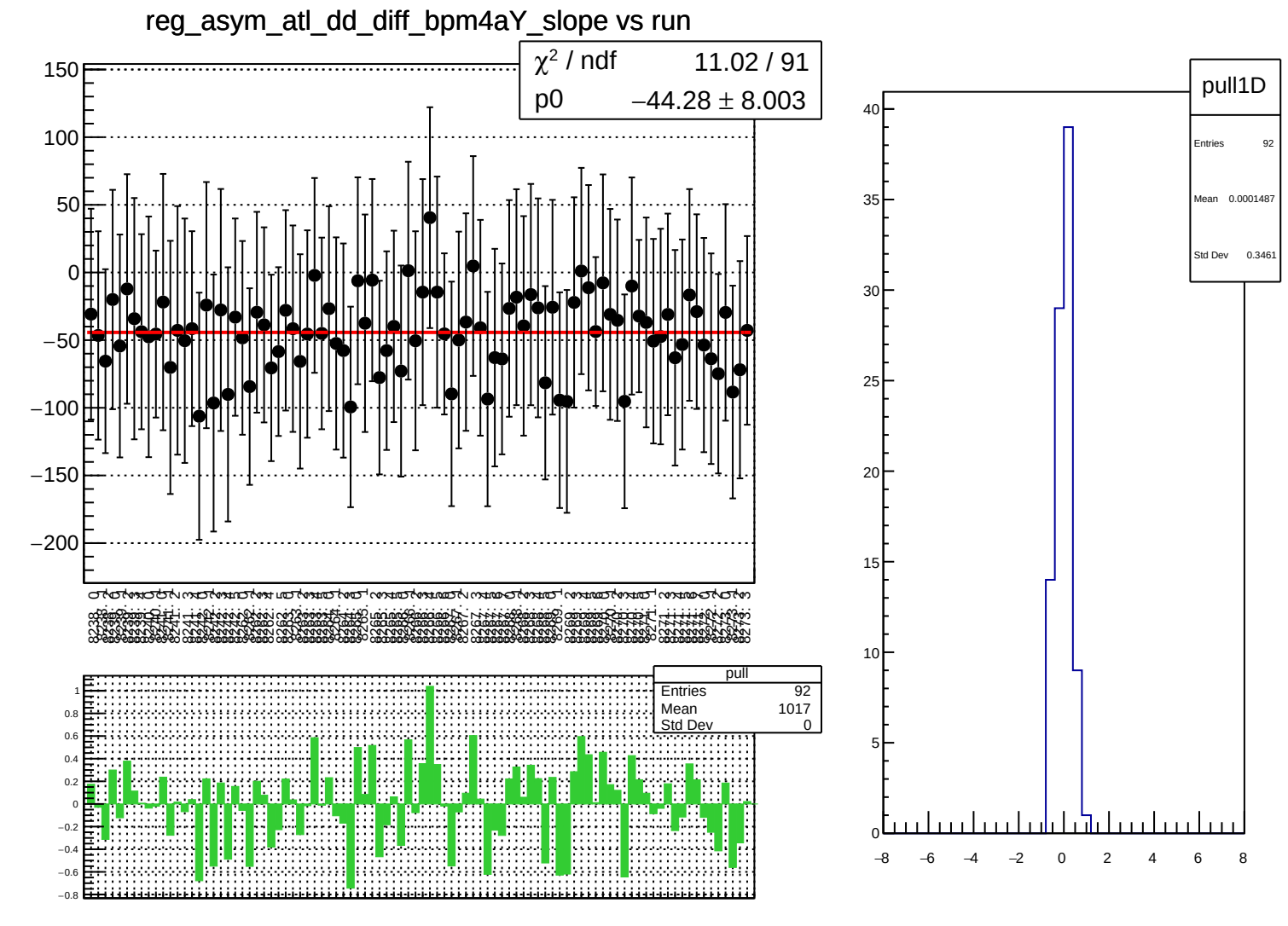

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.615 / 91
p0 12.23 ± 9.662
pull
Entries 92
Mean −739.7
Std Dev 0

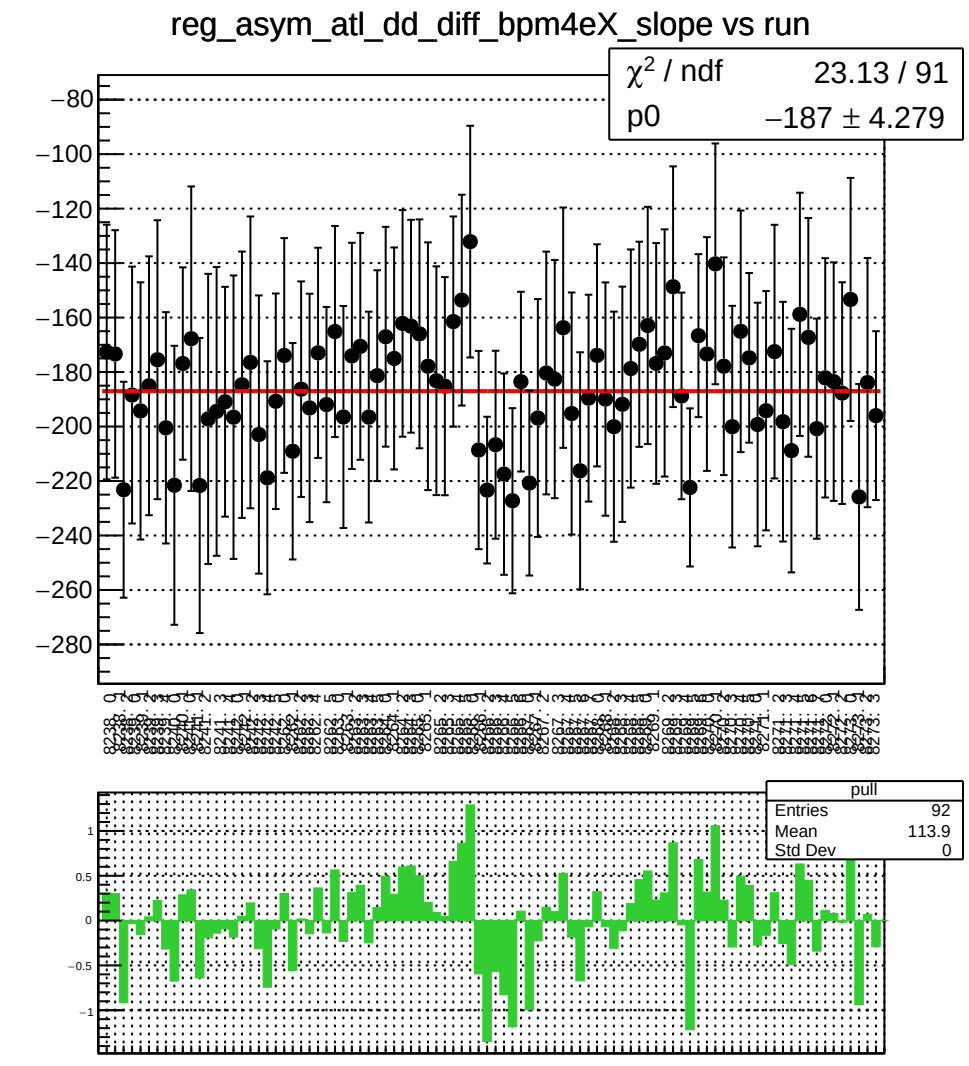

pull1D
Entries 92
Mean −0.003525
Std Dev 0.3233

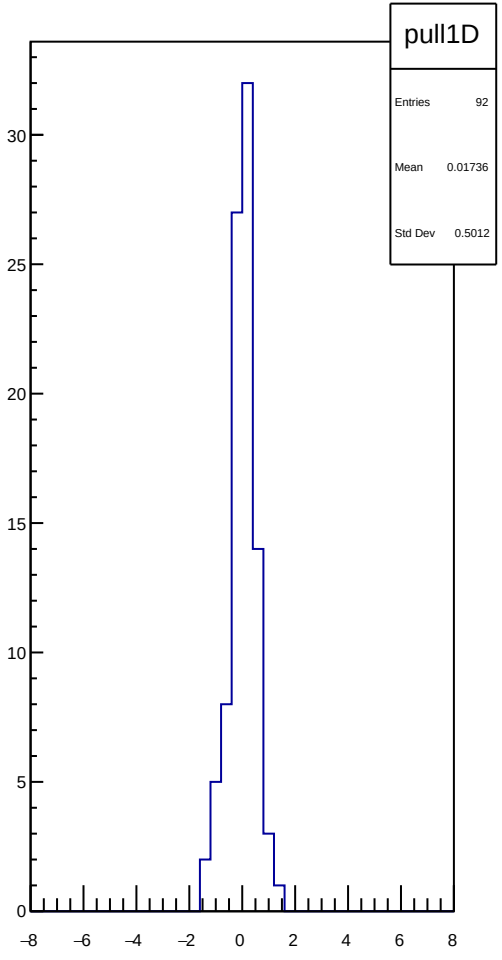

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 17.63 / 91
p0 −139.9 ± 0.5227
−130
−135
−140
−145
−150
pull
Entries 92
Mean 423.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.008297
Std Dev 0.4377
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

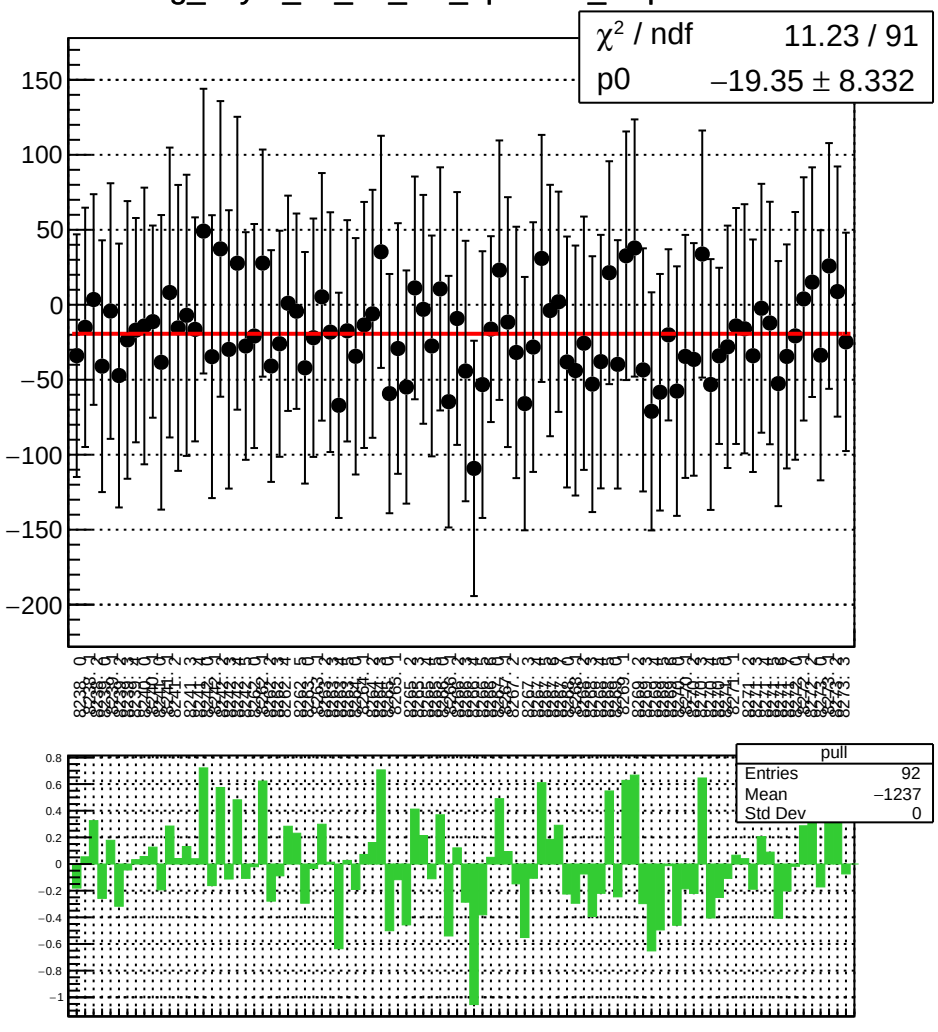

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 23.19 / 91
p0 262.3 ± 3.761
pull
Entries 92
Mean 245.7
Std Dev 0

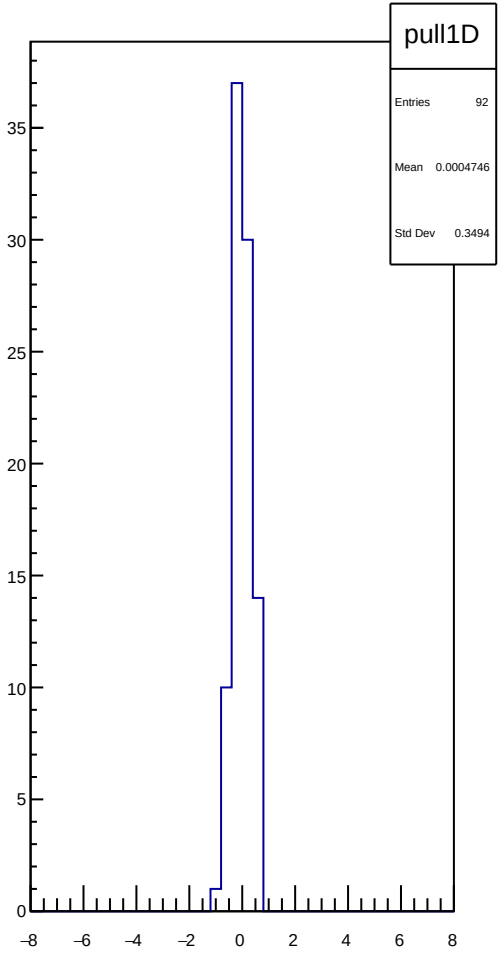

pull1D
Entries 92
Mean −0.008805
Std Dev 0.502

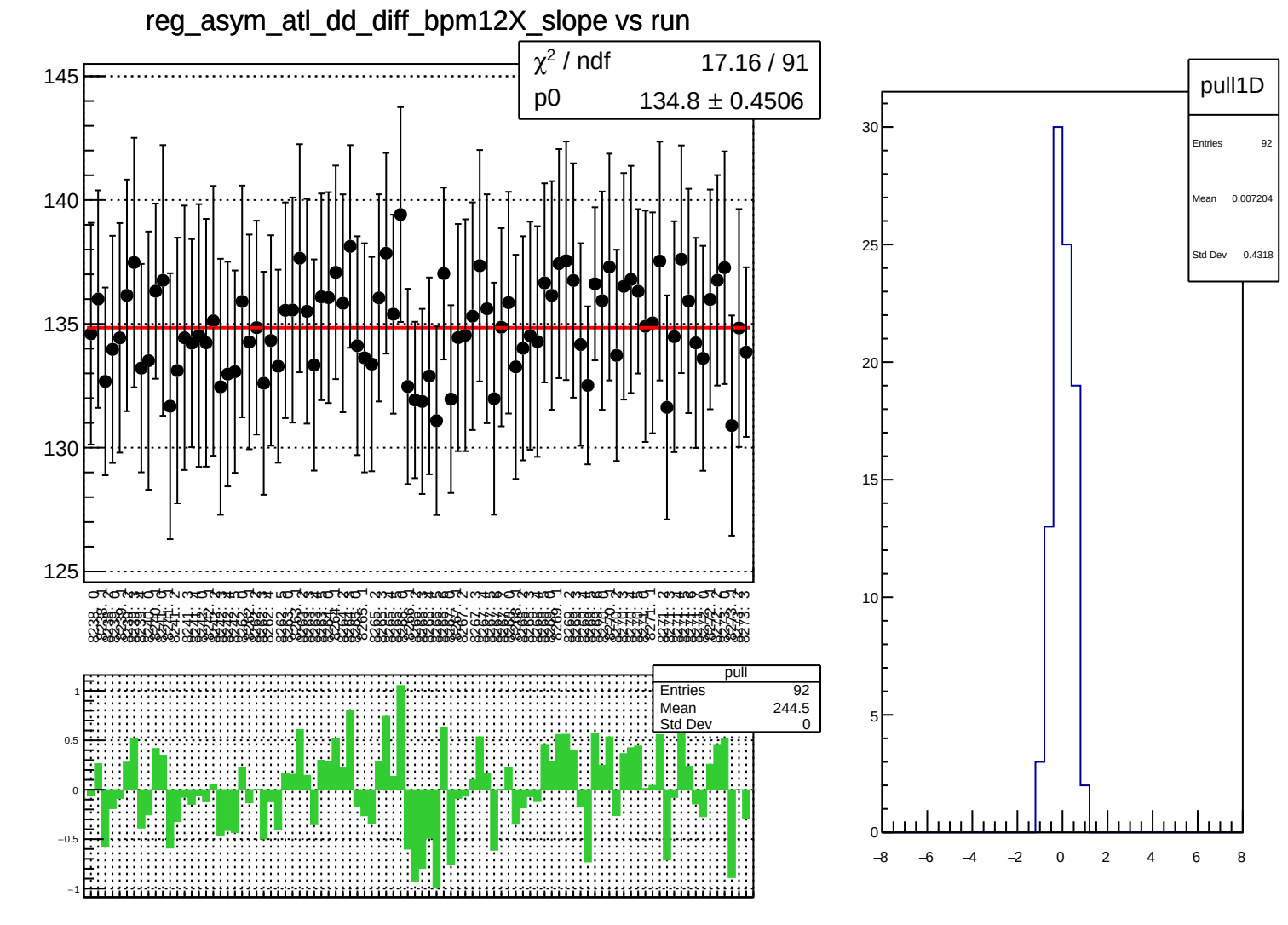

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.02 / 91
p0 −44.28 ± 8.003
pull
Entries 92
Mean 1017
Std Dev 0
pull1D
Entries 92
Mean 0.0001487
Std Dev 0.3461

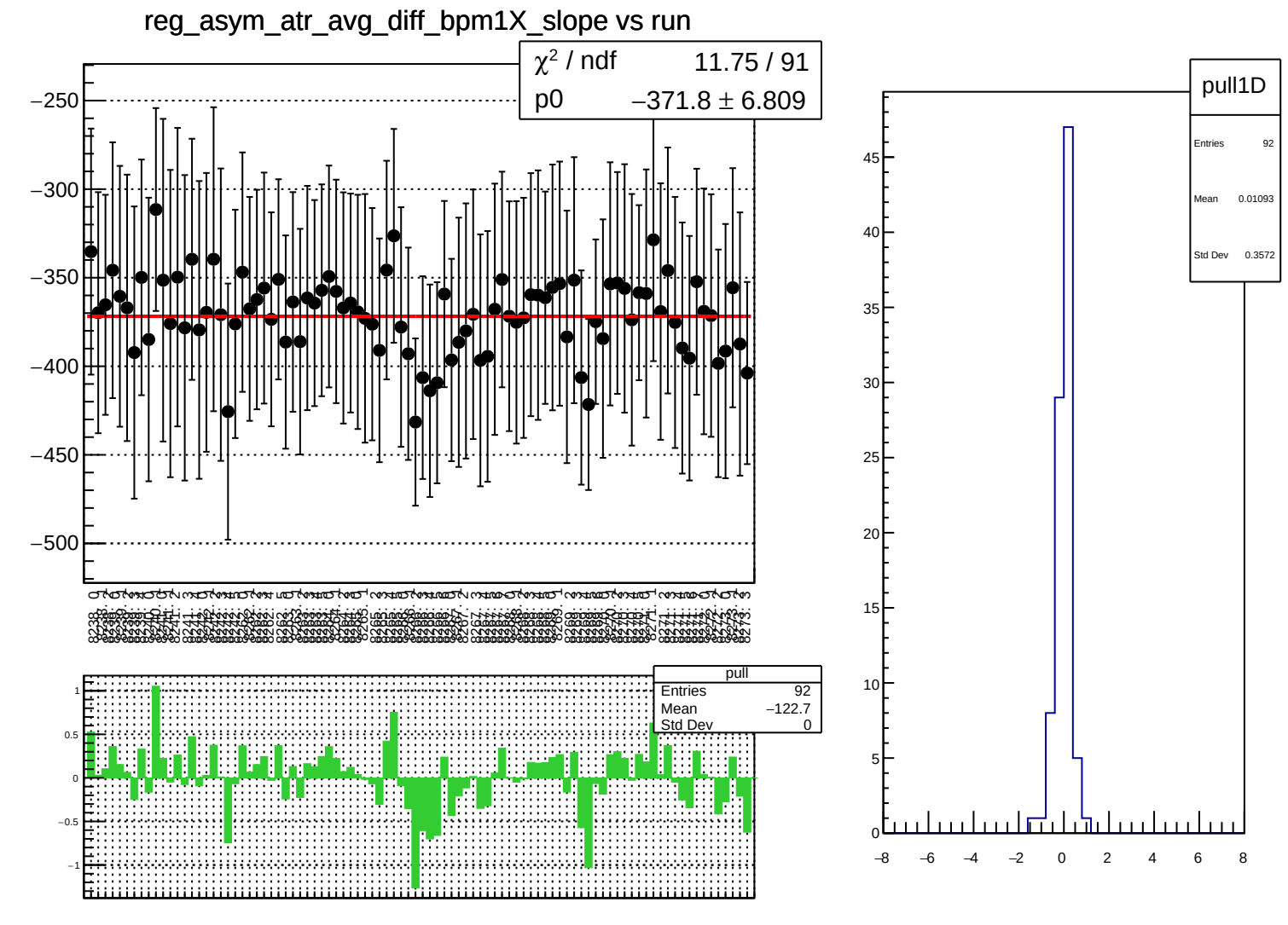

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.13 / 91
p0 −187 ± 4.279
pull
Entries 92
Mean 113.9
Std Dev 0

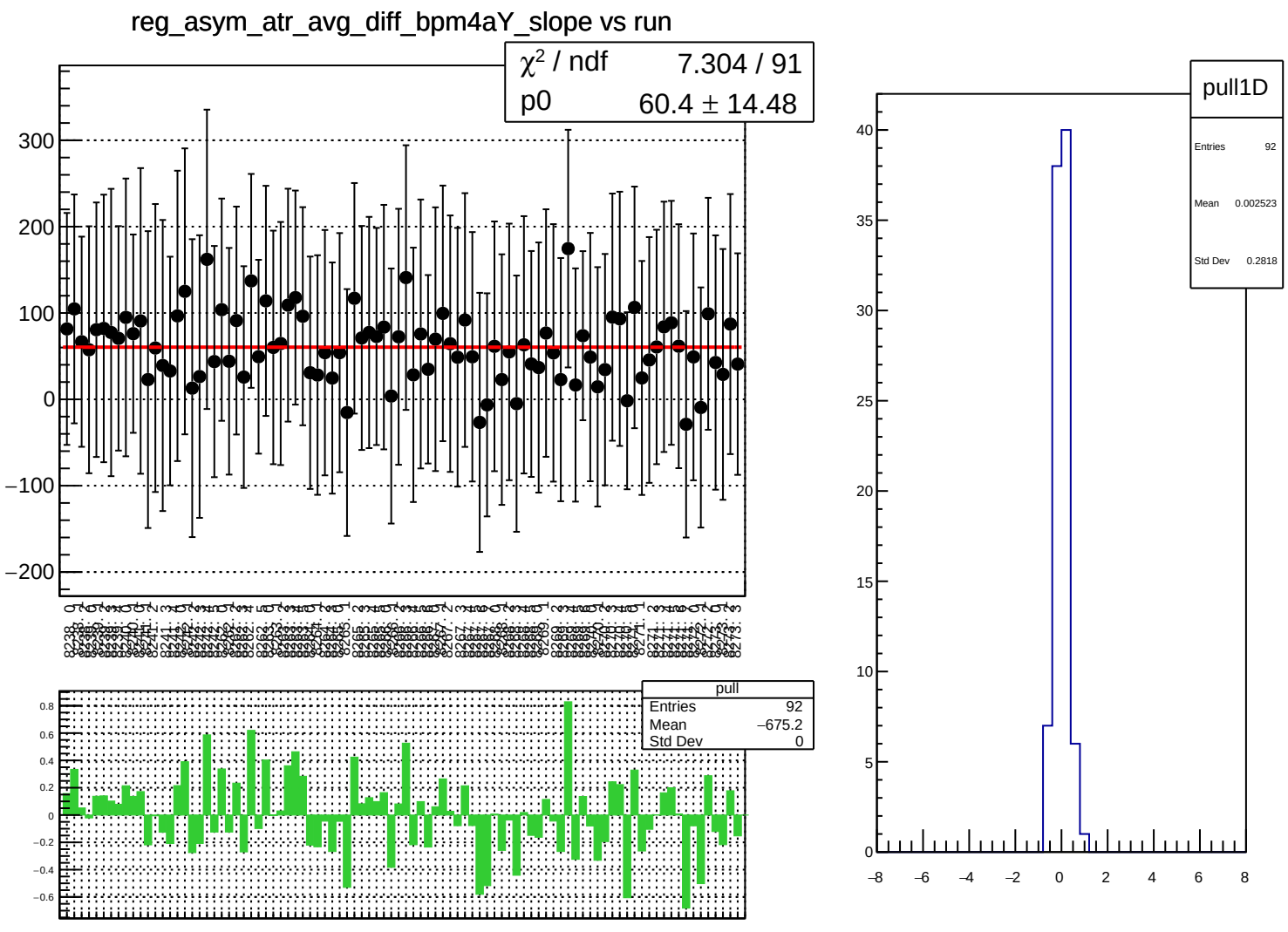

pull1D
Entries 92
Mean 0.01736
Std Dev 0.5012

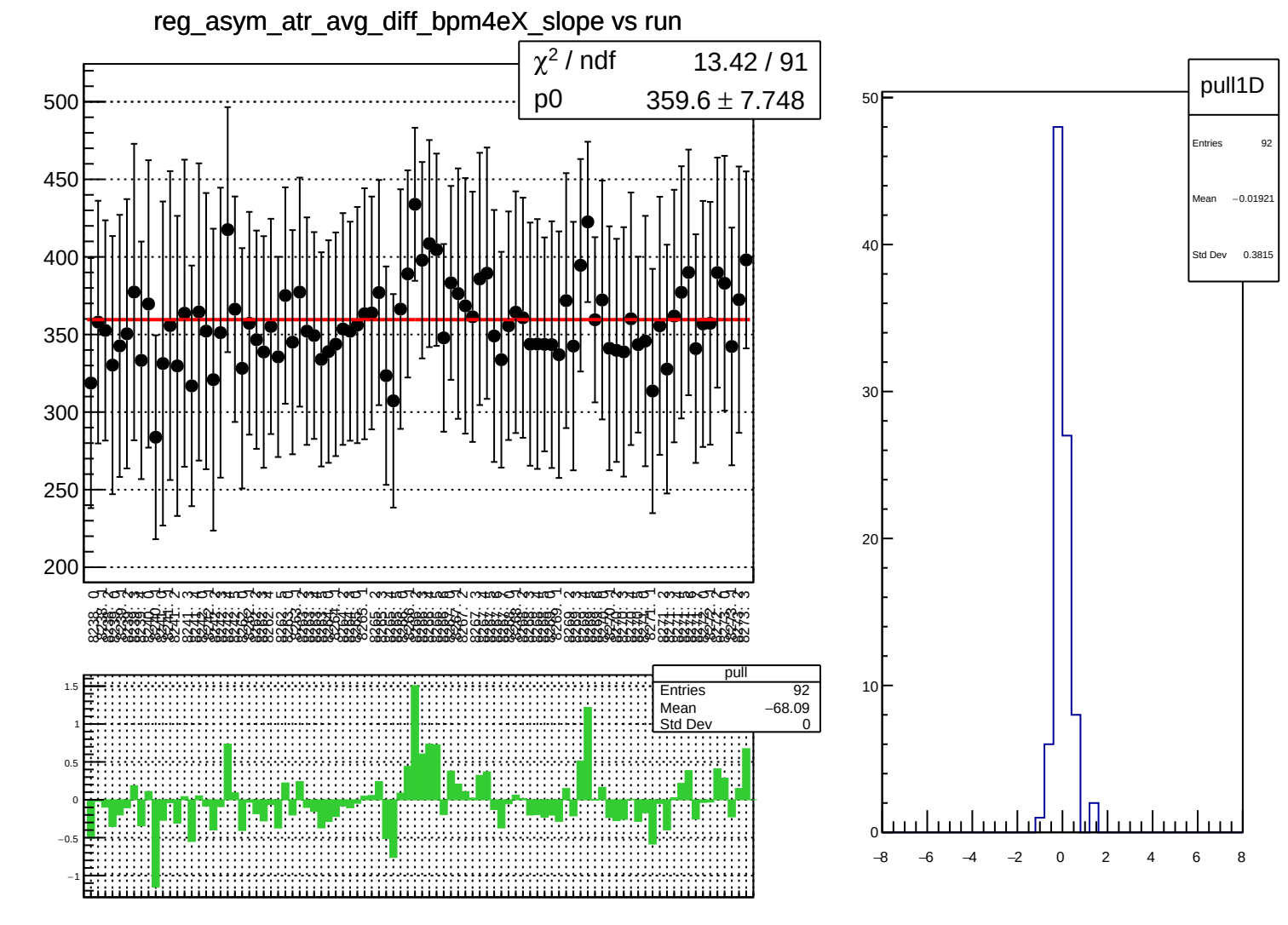

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.23 / 91
p0 −19.35 ± 8.332
pull
Entries 92
Mean −1237
Std Dev 0

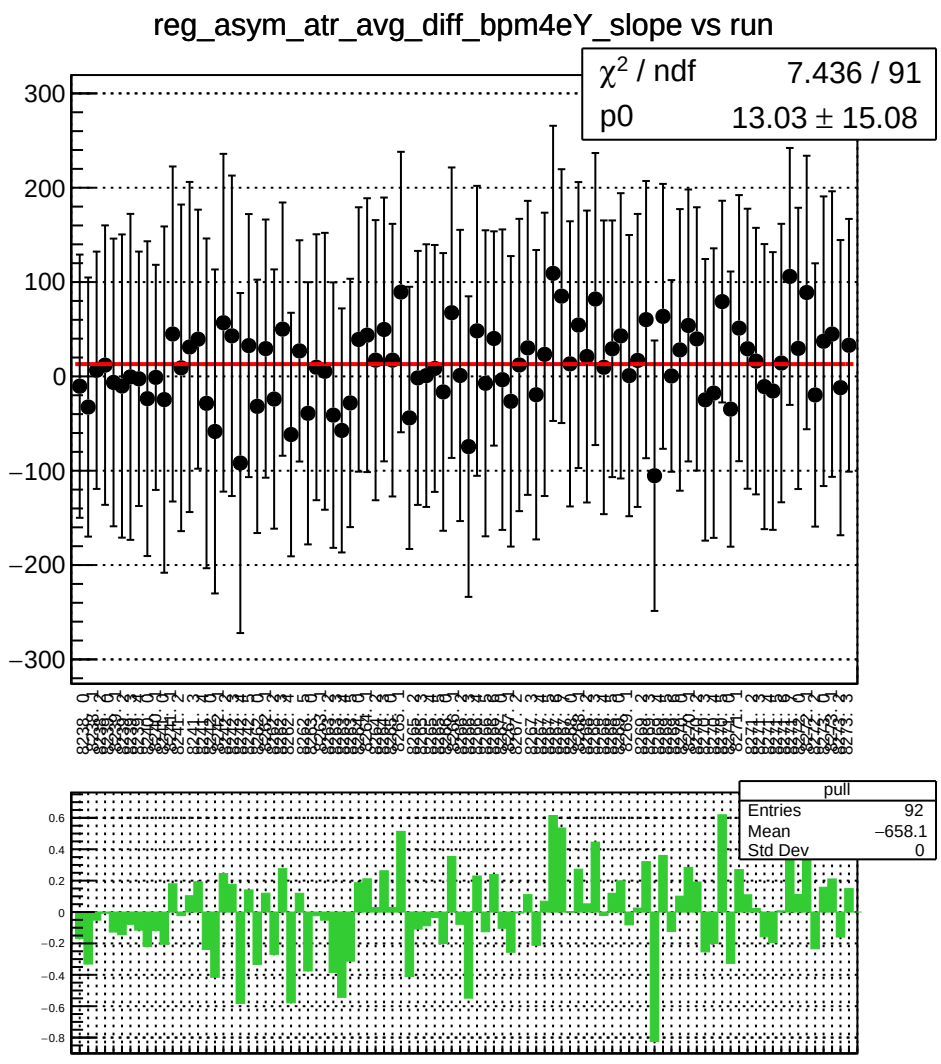

pull1D
Entries 92
Mean 0.0004746
Std Dev 0.3494

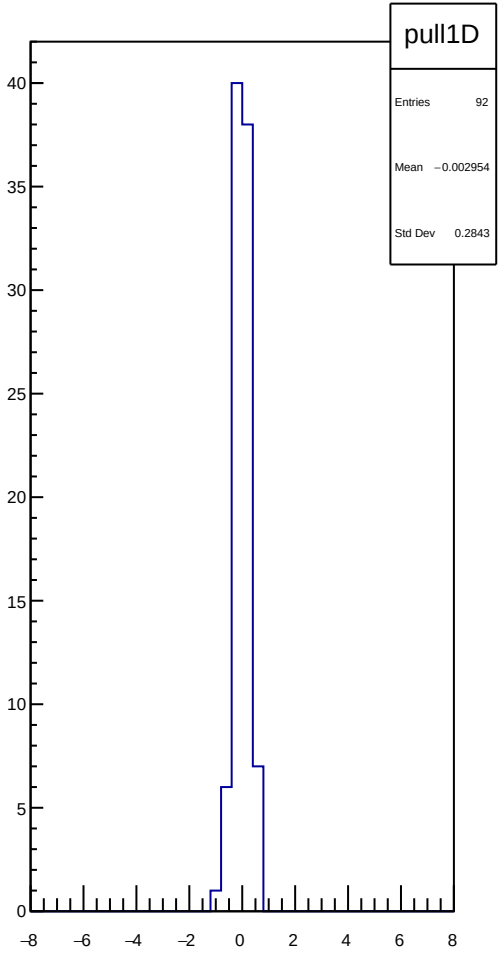

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 17.16 / 91
p0 134.8 ± 0.4506
145
140
135
130
125
pull
Entries 92
Mean 244.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean 0.007204
Std Dev 0.4318
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

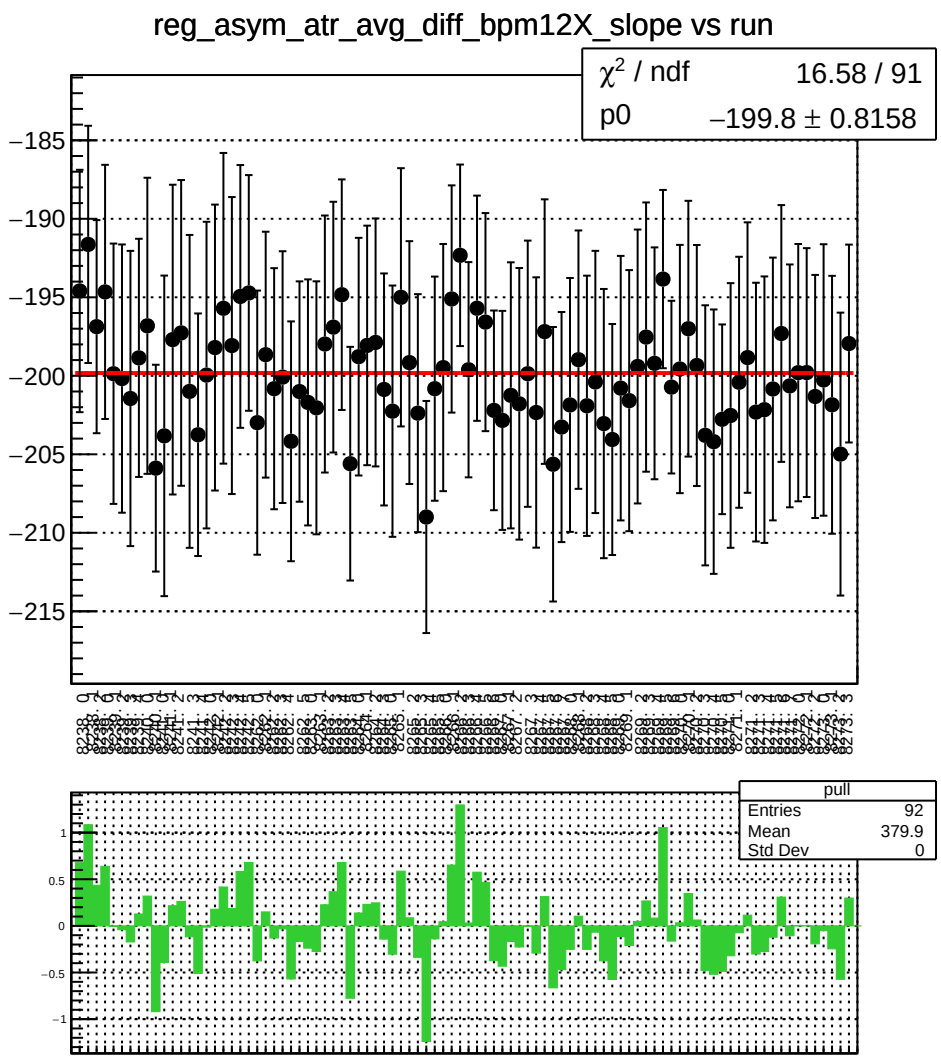

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 11.75 / 91
p0 −371.8 ± 6.809
−250
−300
−350
−400
−450
−500
pull
Entries 92
Mean −122.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean 0.01093
Std Dev 0.3572
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

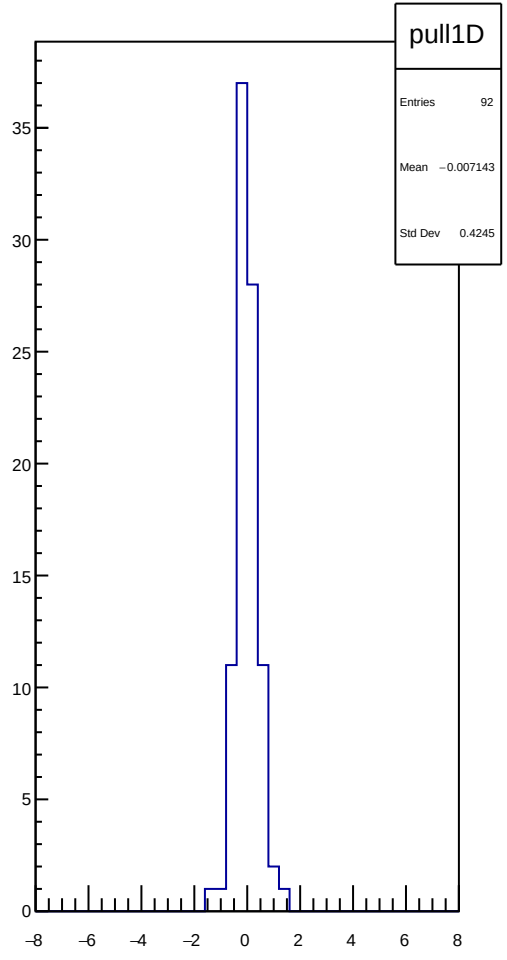

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.304 / 91
p0 60.4 ± 14.48
pull
Entries 92
Mean −675.2
Std Dev 0
pull1D
Entries 92
Mean 0.002523
Std Dev 0.2818

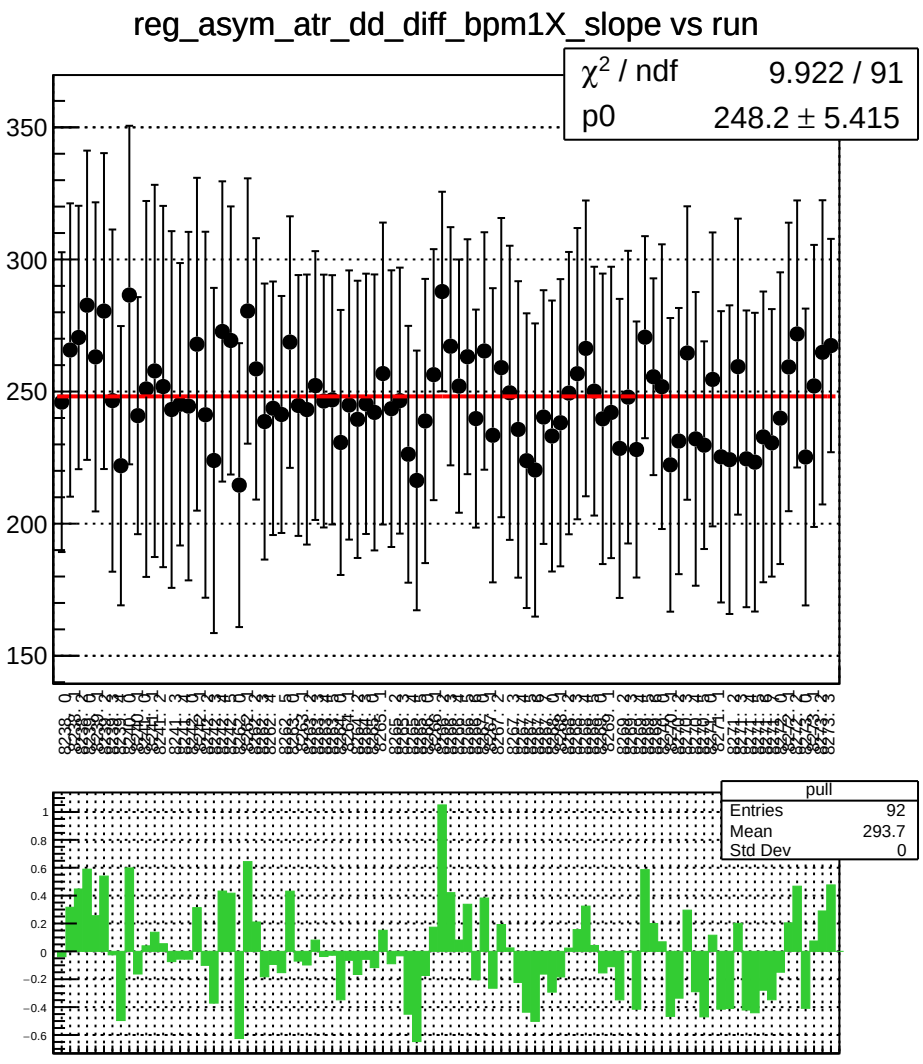

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.42 / 91
p0 359.6 ± 7.748
pull
Entries 92
Mean −68.09
Std Dev 0
pull1D
Entries 92
Mean −0.01921
Std Dev 0.3815

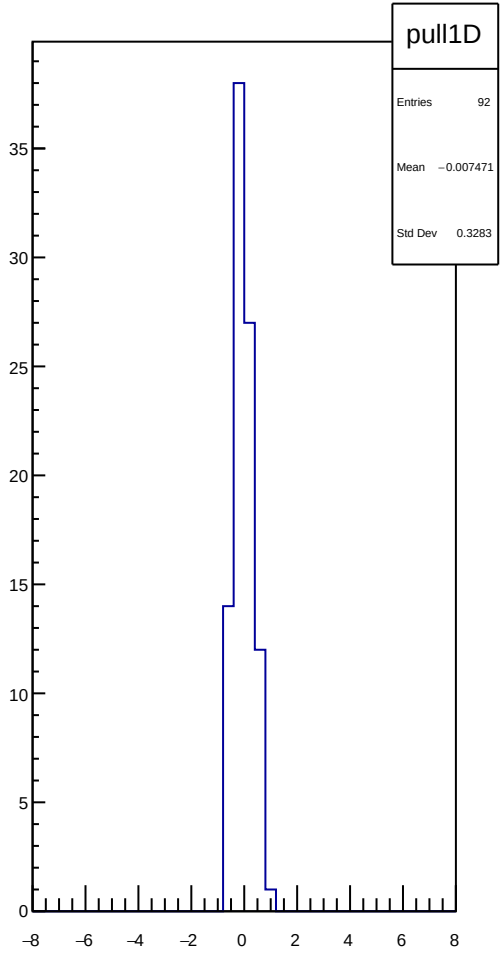

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.436 / 91
p0 13.03 ± 15.08
pull
Entries 92
Mean −658.1
Std Dev 0

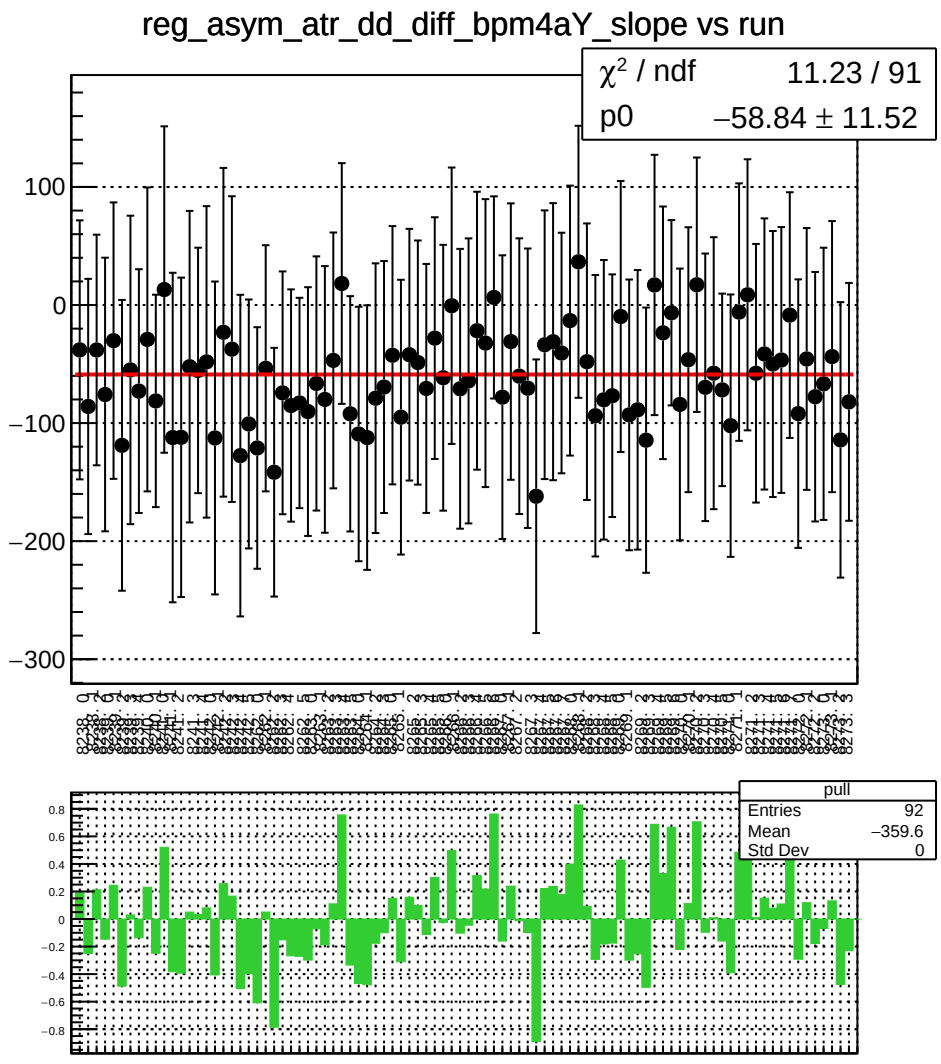

pull1D
Entries 92
Mean −0.002954
Std Dev 0.2843

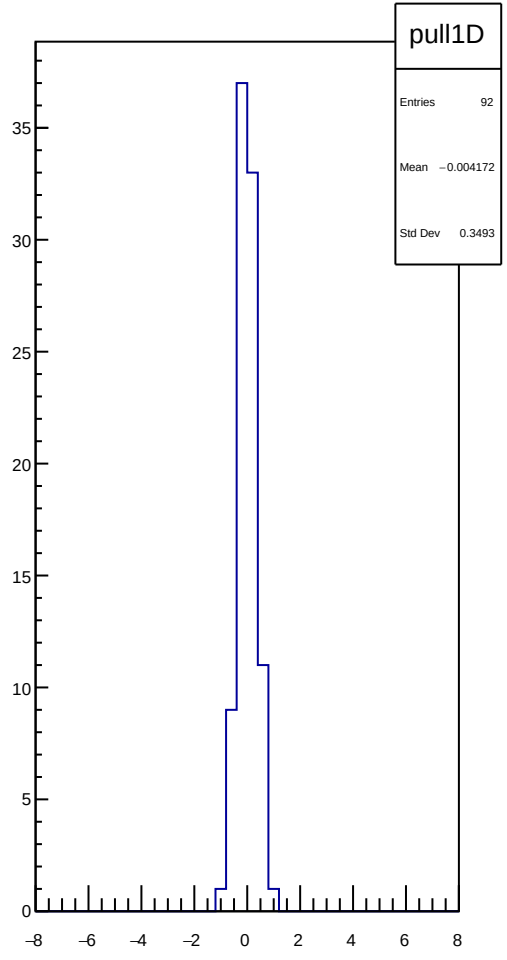

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 16.58 / 91
p0 −199.8 ± 0.8158
−185
−190
−195
−200
−205
−210
−215
pull
Entries 92
Mean 379.9
Std Dev 0
1
0.5
0
−0.5
−1

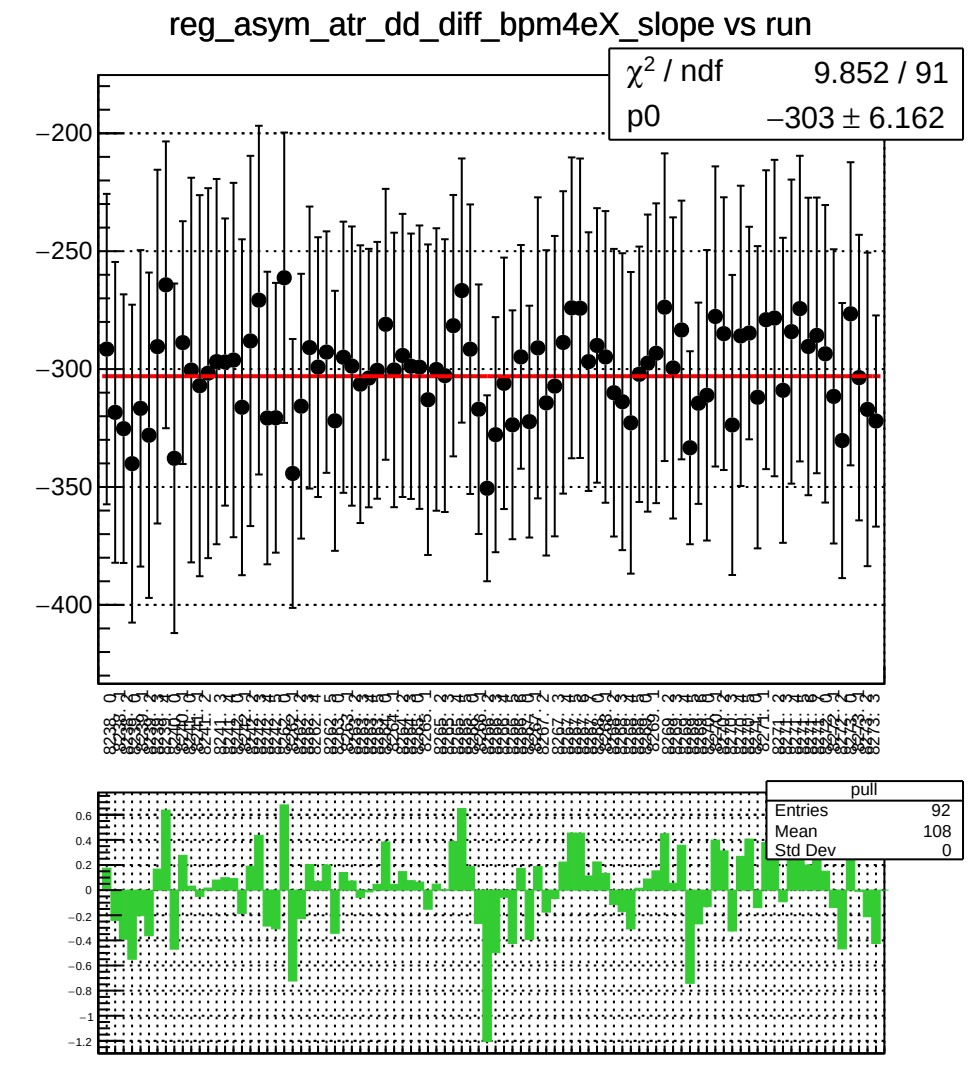

pull1D
Entries 92
Mean −0.007143
Std Dev 0.4245
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

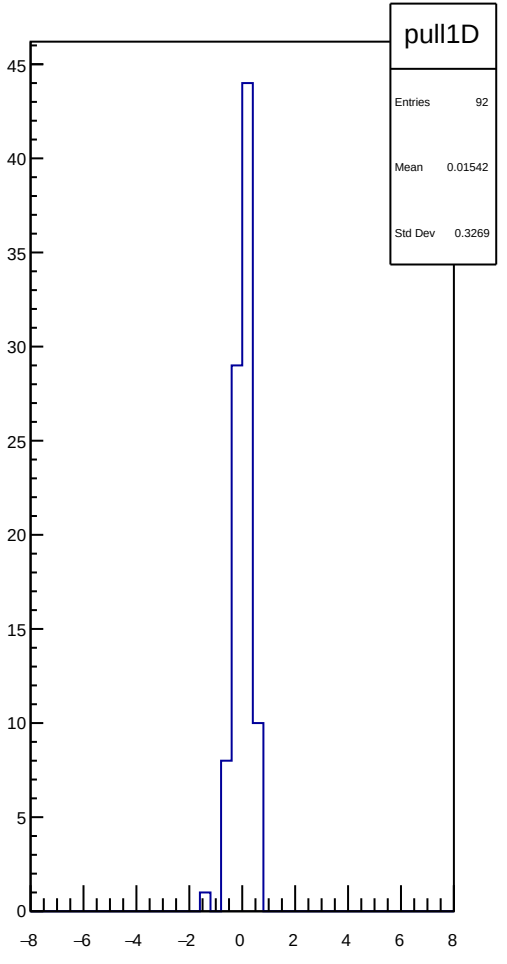

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 9.922 / 91
p0 248.2 ± 5.415
350
300
250
200
150
pull
Entries 92
Mean 293.7
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

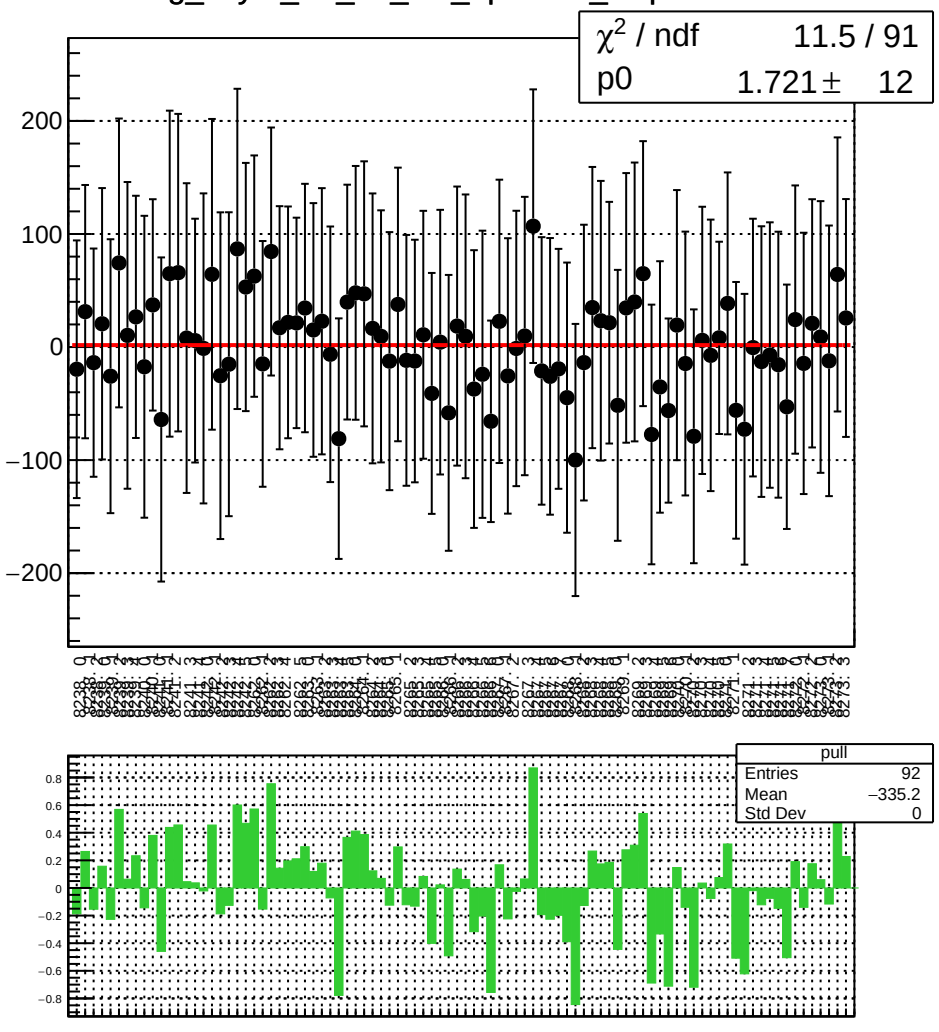

pull1D
Entries 92
Mean −0.007471
Std Dev 0.3283
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

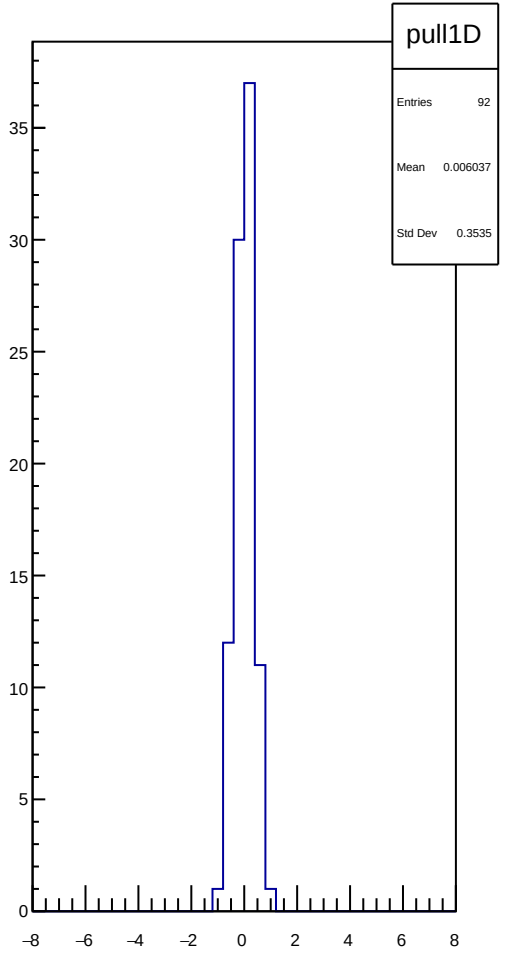

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.23 / 91
p0 −58.84 ± 11.52
100
0
−100
−200
−300
pull
Entries 92
Mean −359.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

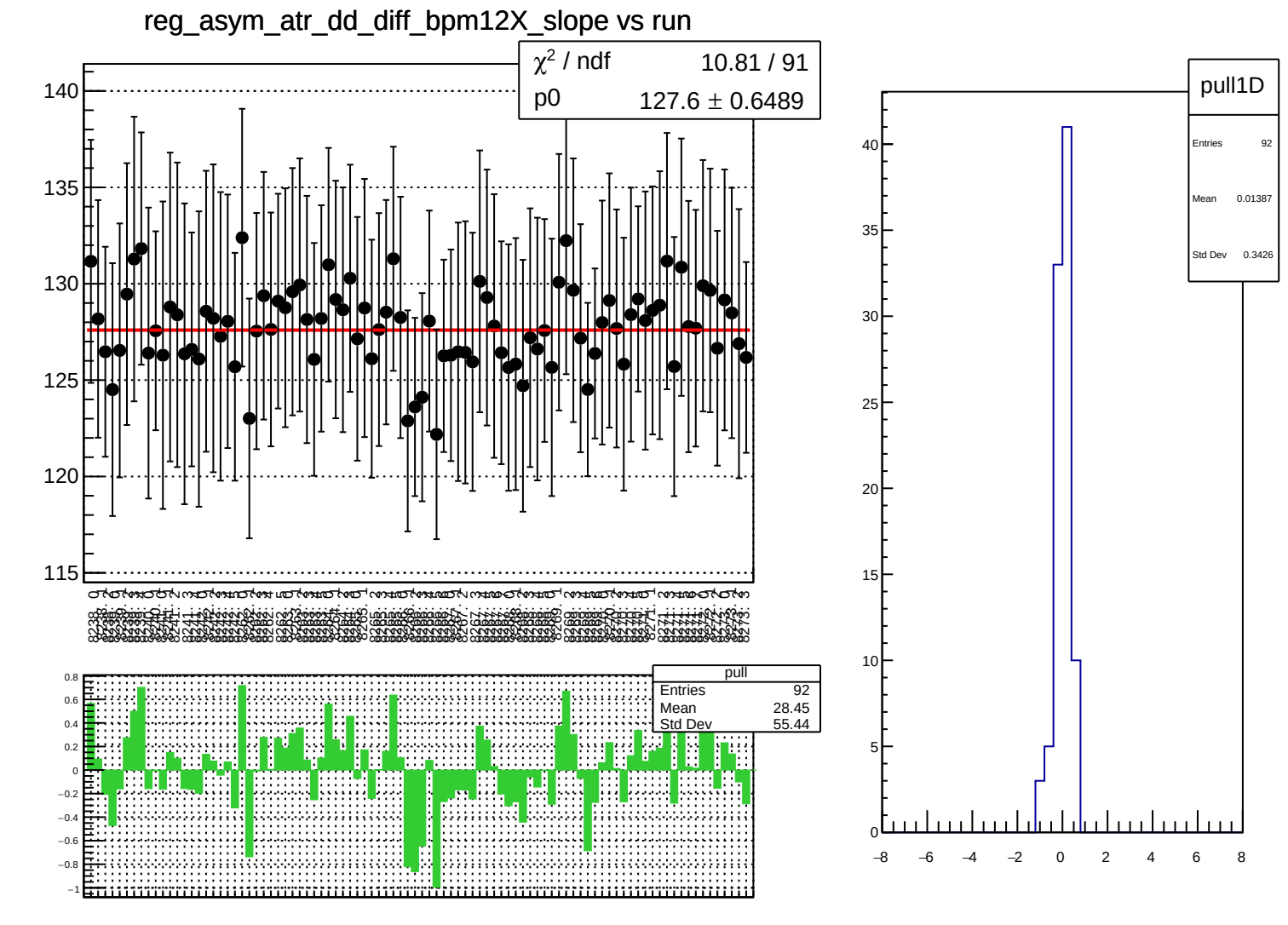

pull1D
Entries 92
Mean −0.004172
Std Dev 0.3493
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

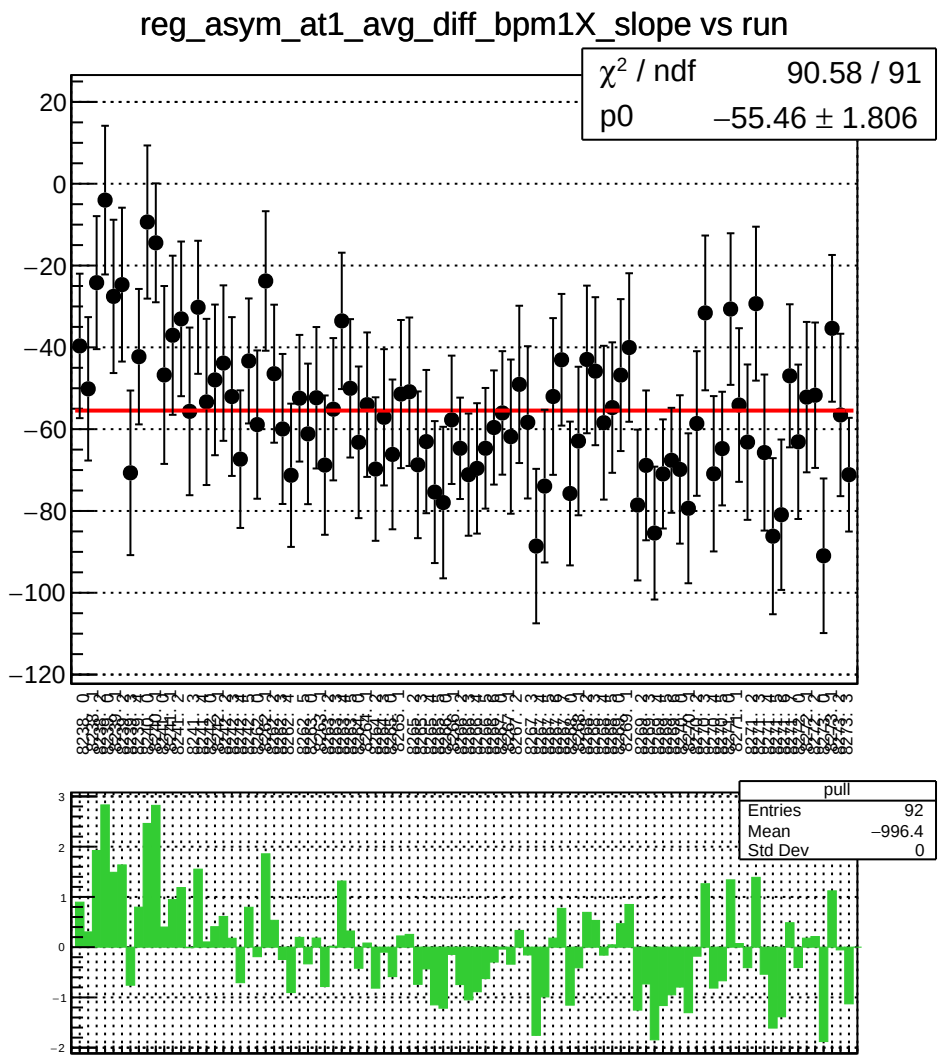

reg_asym_atr_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 9.852 / 91
p0 −303 ± 6.162
−200
−250
−300
−350
−400
pull
Entries 92
Mean 108
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

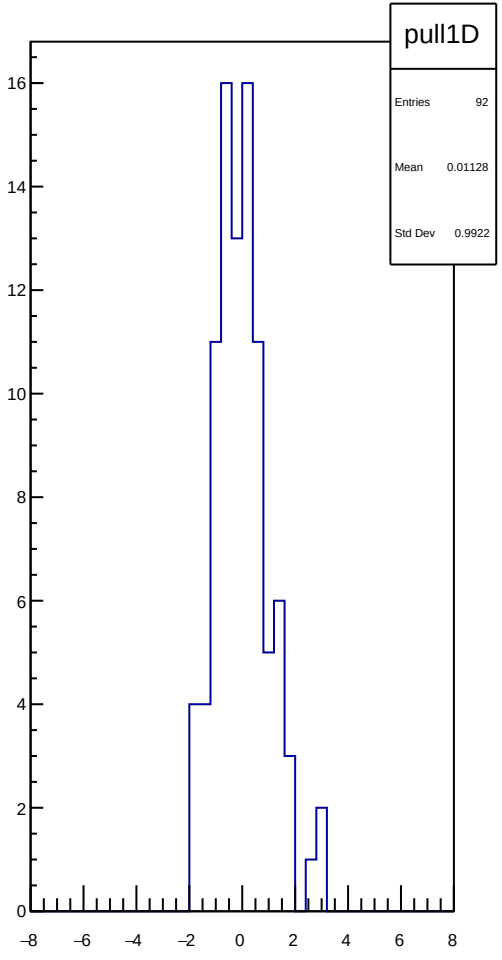

pull1D
Entries 92
Mean 0.01542
Std Dev 0.3269
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

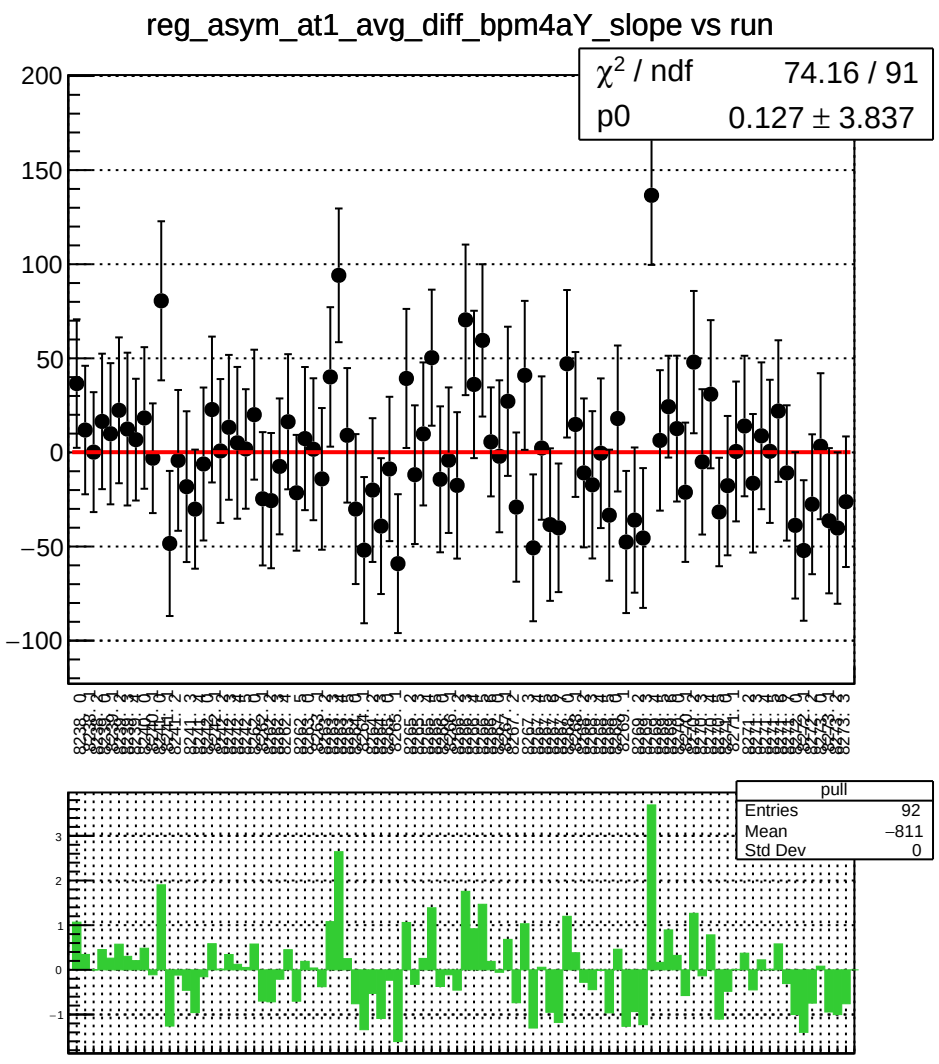

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.5 / 91
p0 1.721 ± 12
200
100
0
−100
−200
pull
Entries 92
Mean −335.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

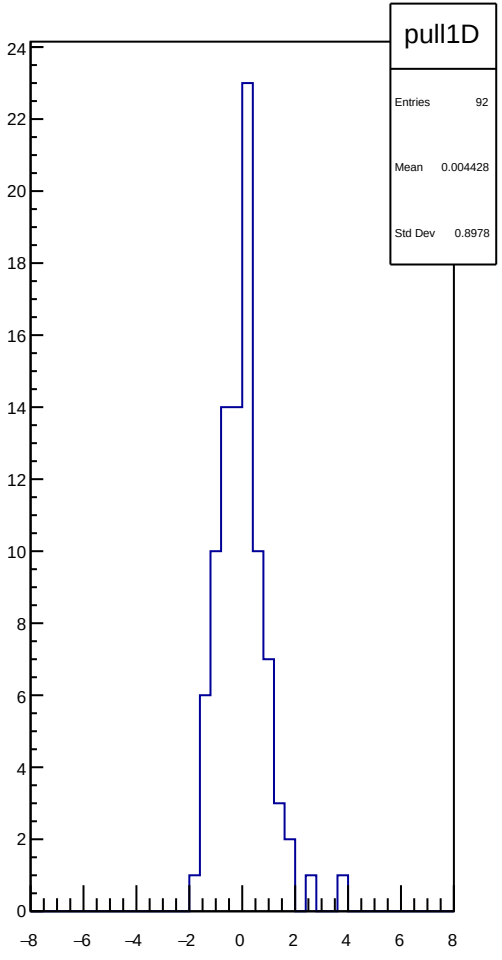

pull1D
Entries 92
Mean 0.006037
Std Dev 0.3535
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

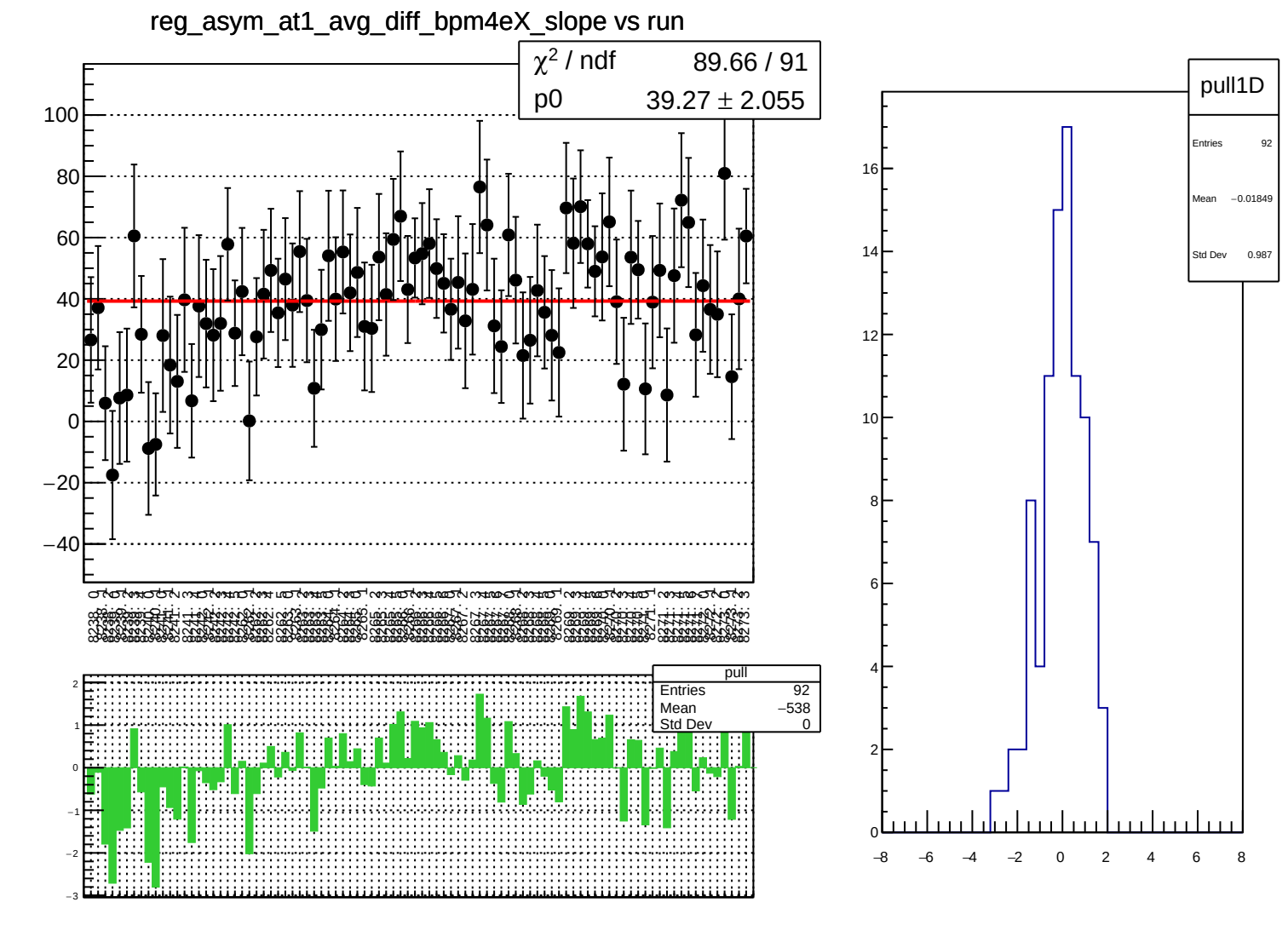

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 10.81 / 91
p0 127.6 ± 0.6489
pull
Entries 92
Mean 28.45
Std Dev 55.44
pull1D
Entries 92
Mean 0.01387
Std Dev 0.3426

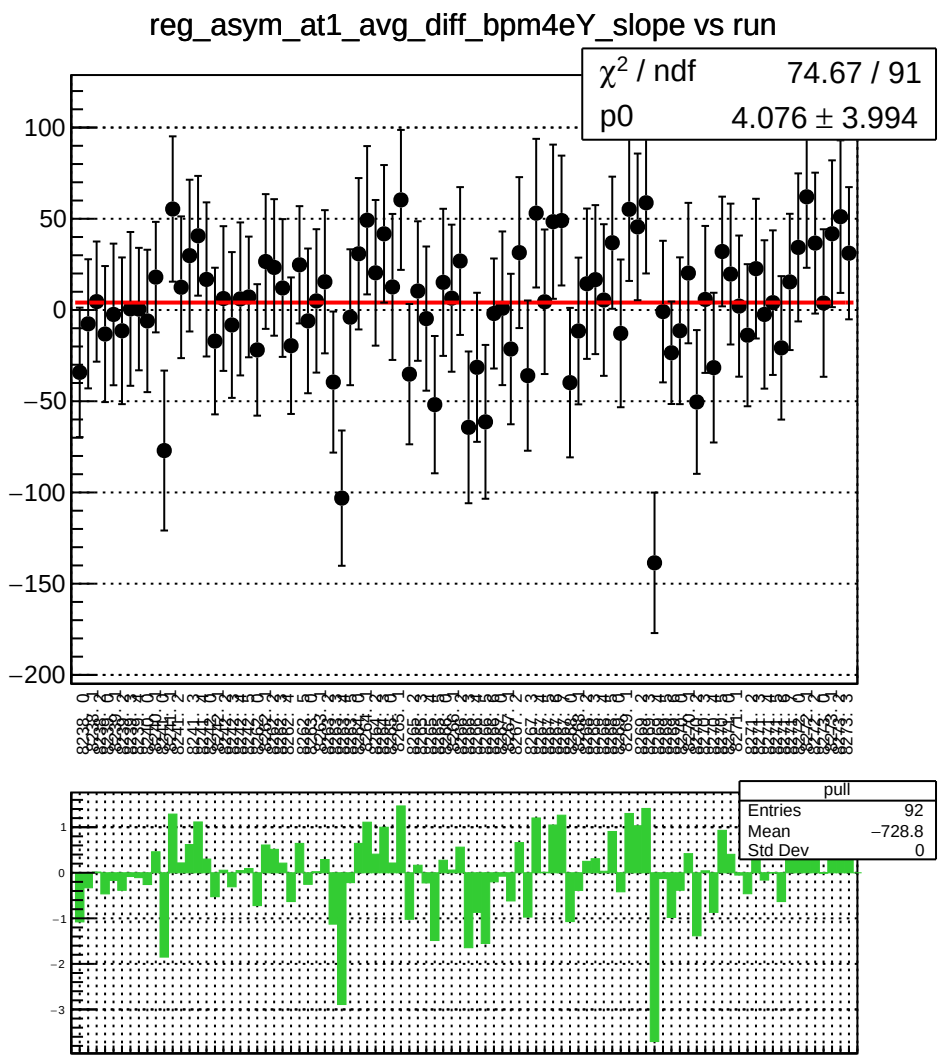

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 90.58 / 91
p0 −55.46 ± 1.806
pull
Entries 92
Mean −996.4
Std Dev 0

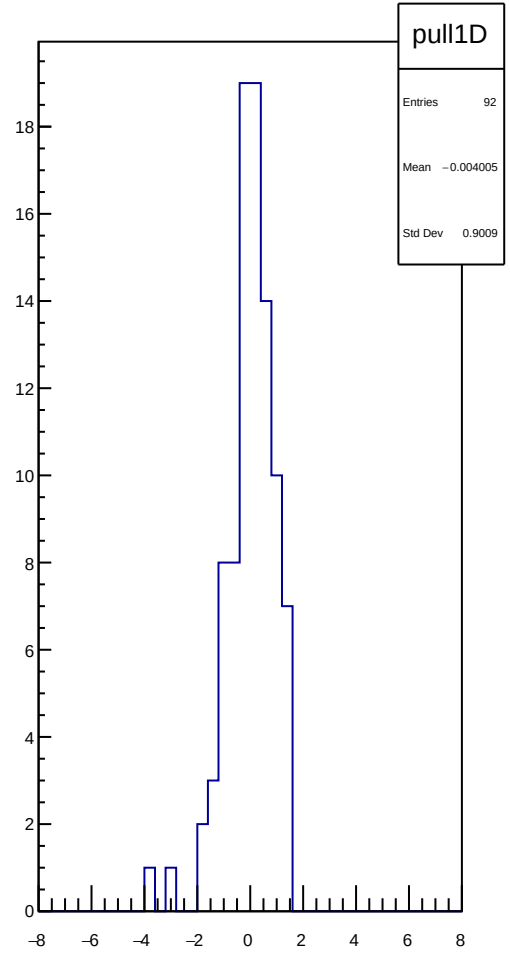

pull1D
Entries 92
Mean 0.01128
Std Dev 0.9922

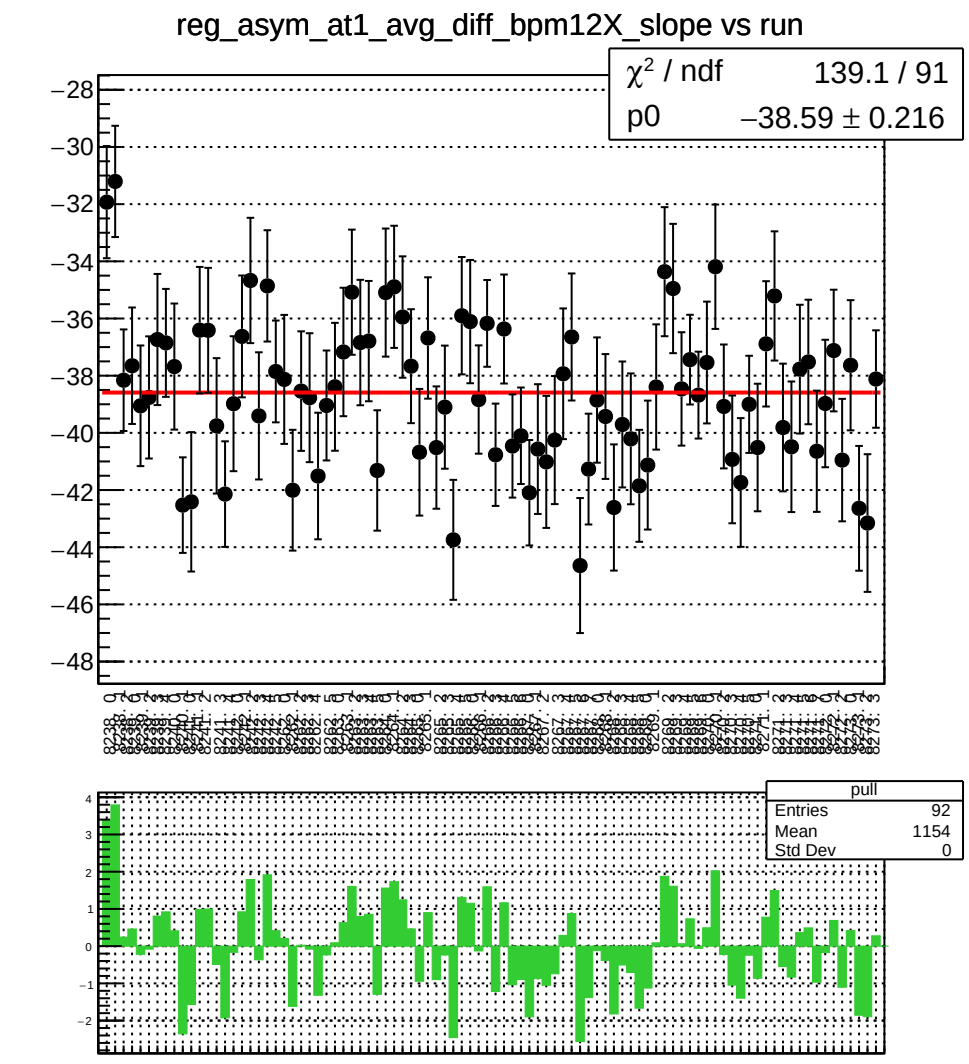

reg_asym_at1_avg_diff_bpm4aY_slope vs run
$\chi^2$ / ndf 74.16 / 91
p0 0.127 ± 3.837
pull
Entries 92
Mean −811
Std Dev 0

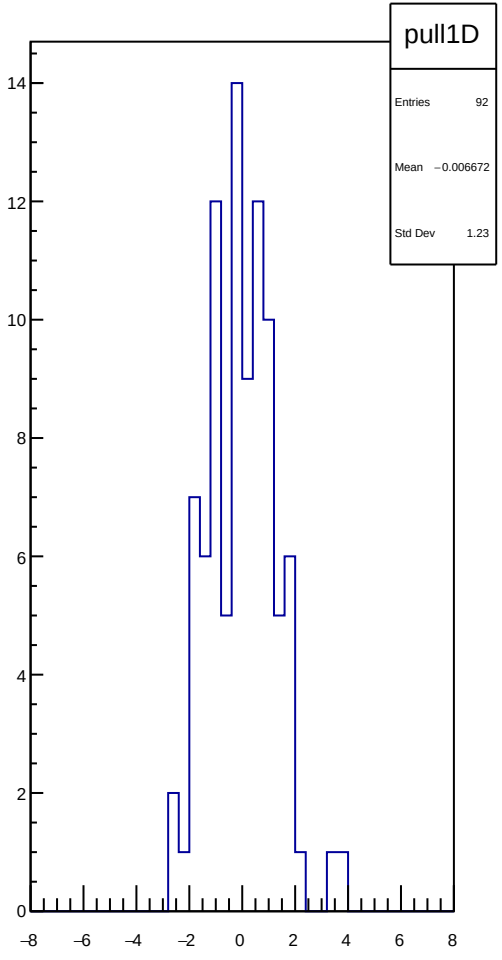

pull1D
Entries 92
Mean 0.004428
Std Dev 0.8978

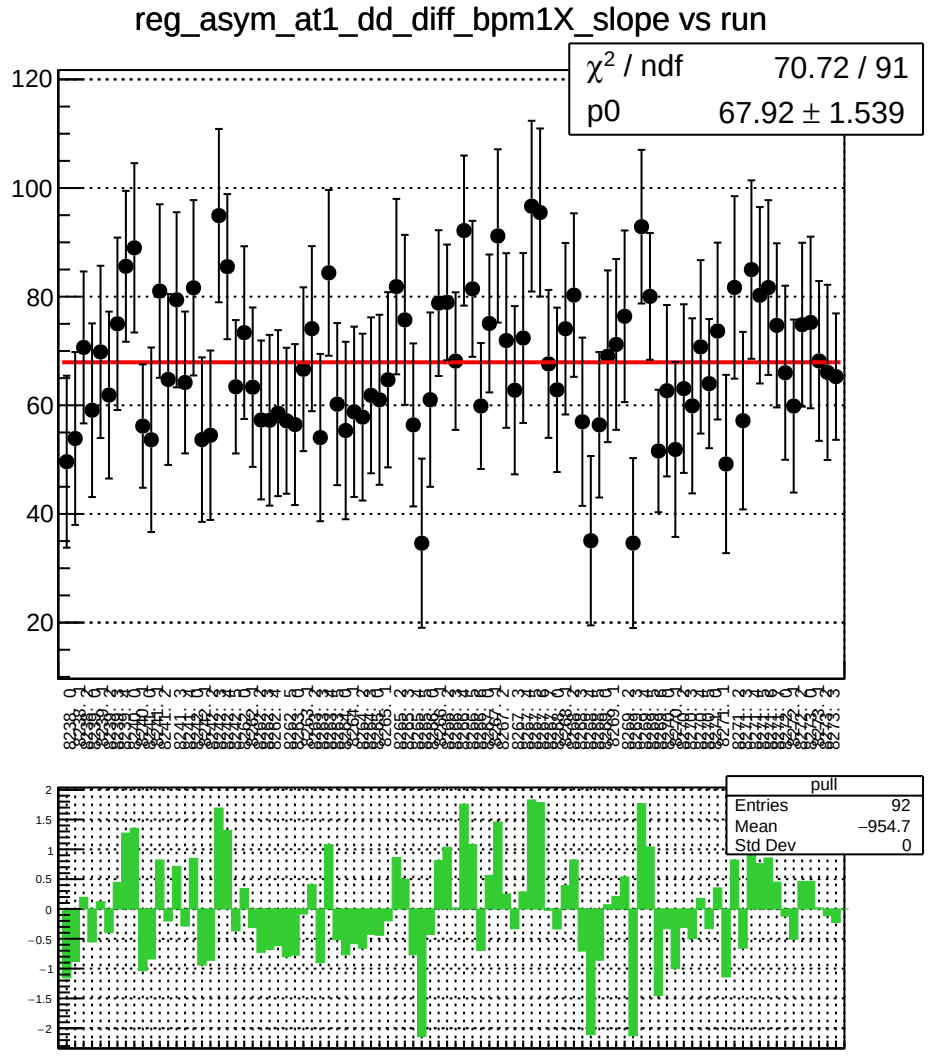

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 89.66 / 91
p0 39.27 ± 2.055
pull
Entries 92
Mean −538
Std Dev 0
pull1D
Entries 92
Mean −0.01849
Std Dev 0.987

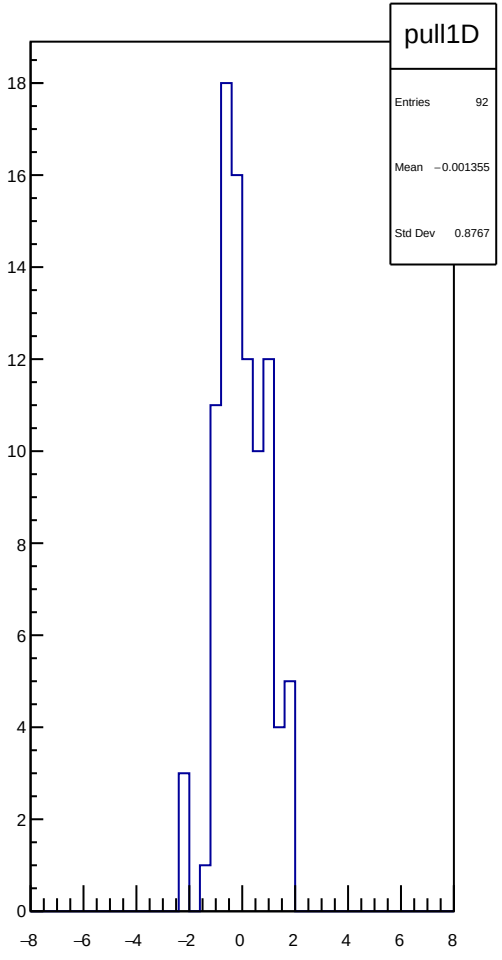

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 74.67 / 91
p0 4.076 ± 3.994
pull
Entries 92
Mean −728.8
Std Dev 0

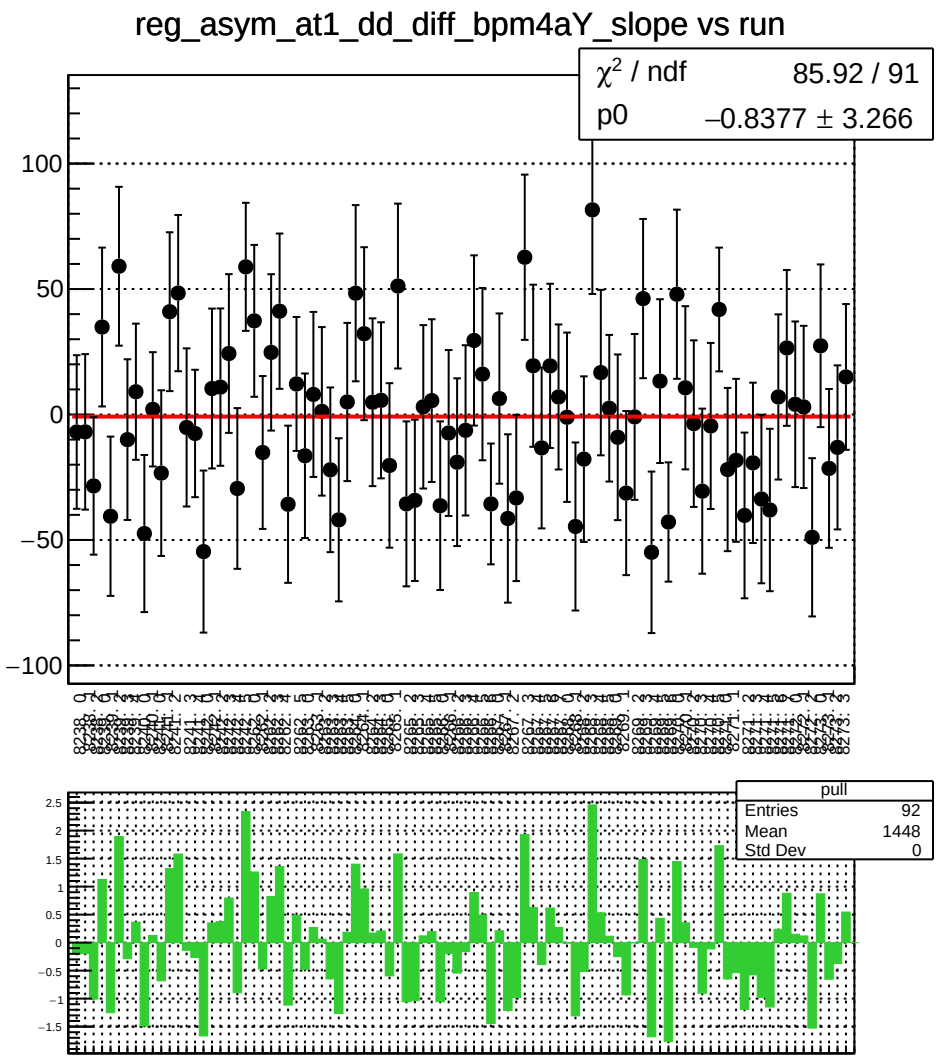

pull1D
Entries 92
Mean −0.004005
Std Dev 0.9009

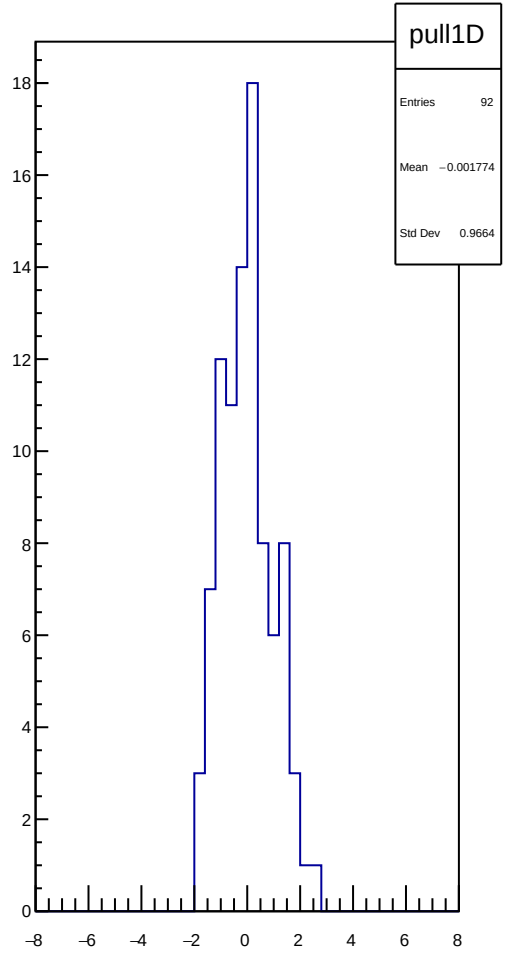

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 139.1 / 91
p0 −38.59 ± 0.216
pull
Entries 92
Mean 1154
Std Dev 0

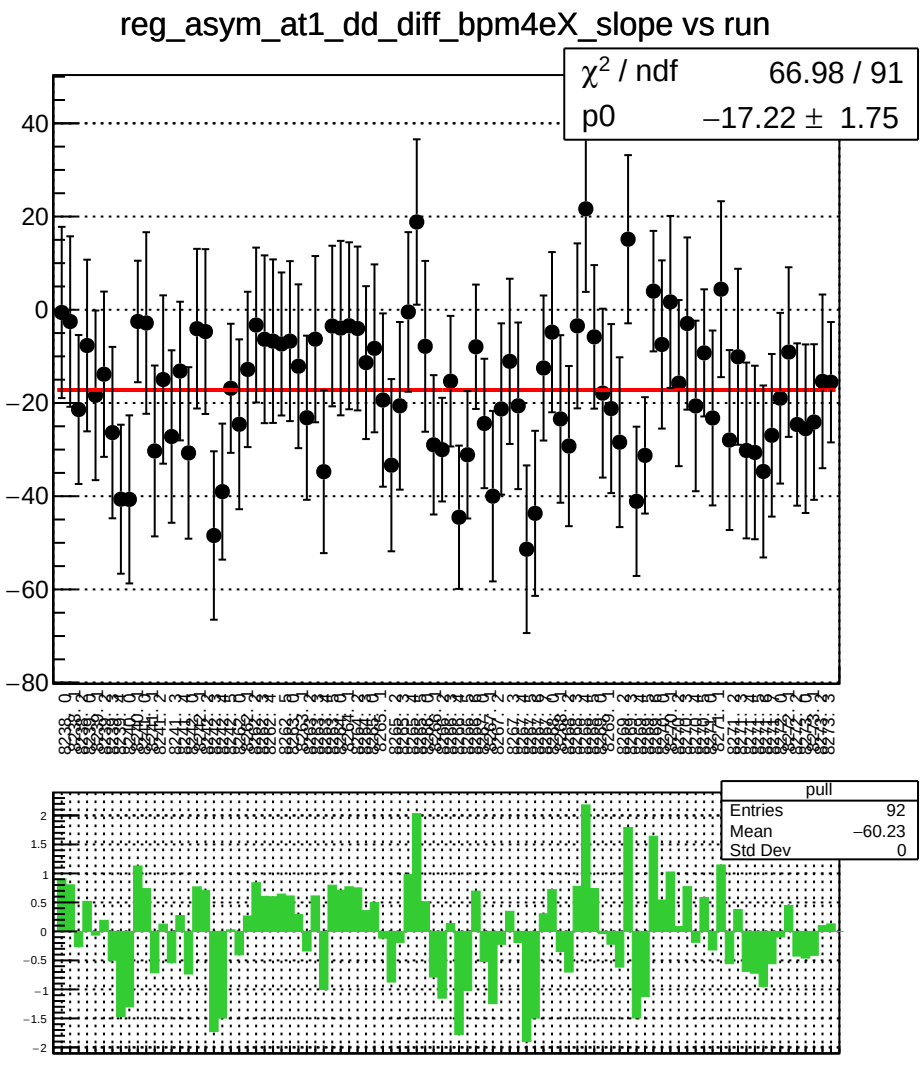

pull1D
Entries 92
Mean −0.006672
Std Dev 1.23

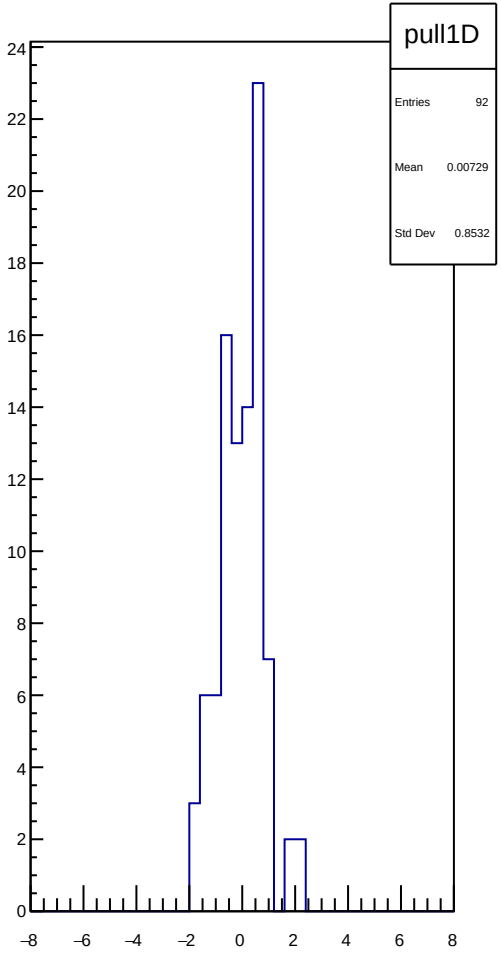

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 70.72 / 91
p0 67.92 ± 1.539
pull
Entries 92
Mean −954.7
Std Dev 0

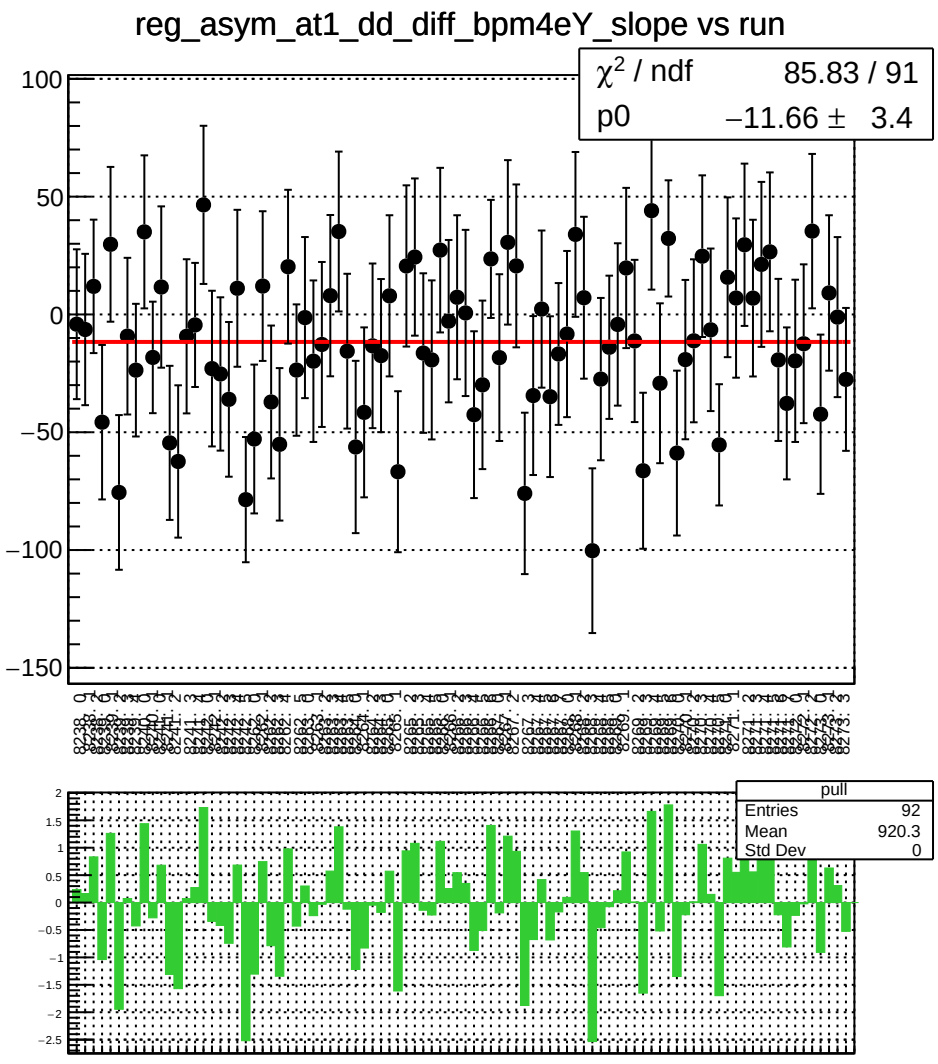

pull1D
Entries 92
Mean −0.001355
Std Dev 0.8767

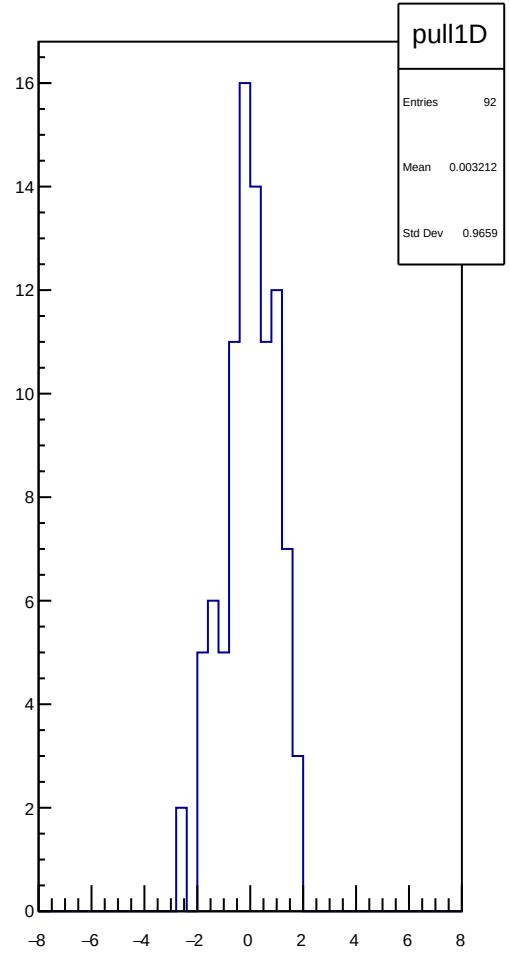

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.92 / 91
p0 −0.8377 ± 3.266
100
50
0
−50
−100
pull
Entries 92
Mean 1448
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

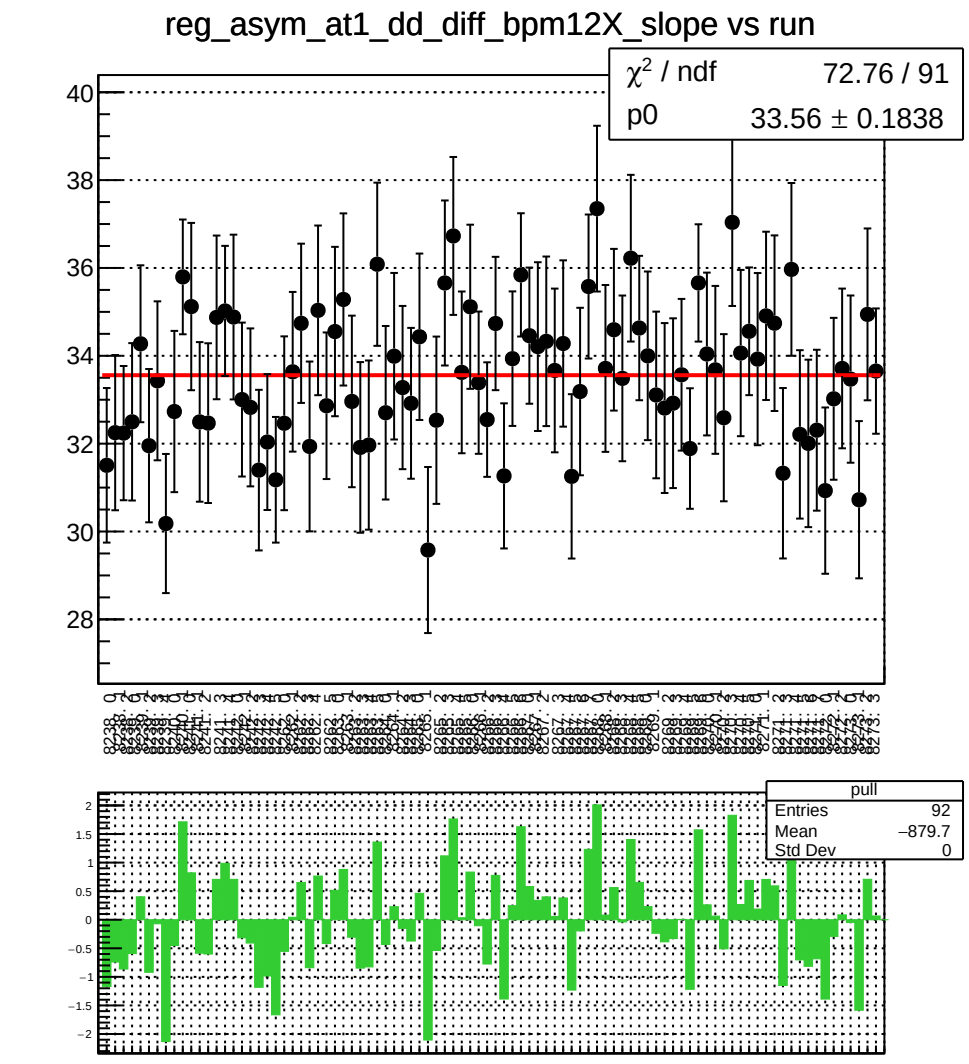

pull1D
Entries 92
Mean −0.001774
Std Dev 0.9664
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

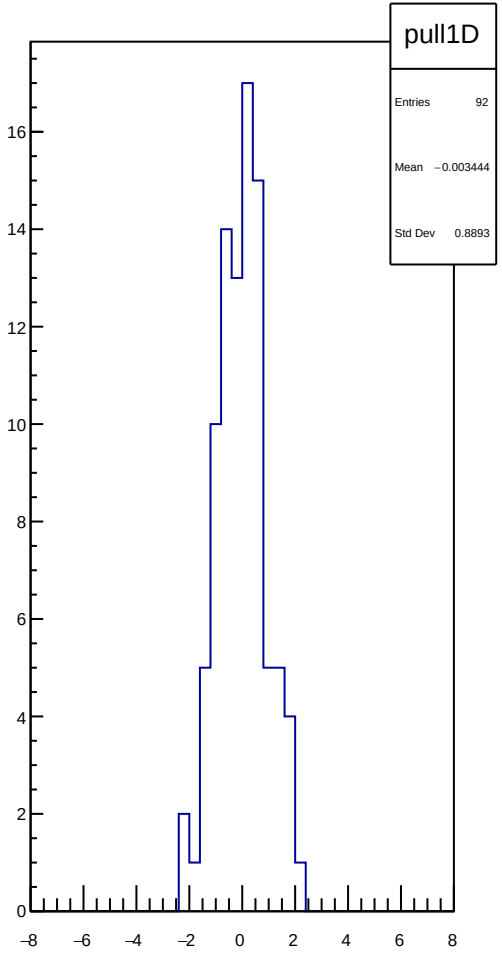

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.98 / 91
p0 −17.22 ± 1.75
pull
Entries 92
Mean −60.23
Std Dev 0

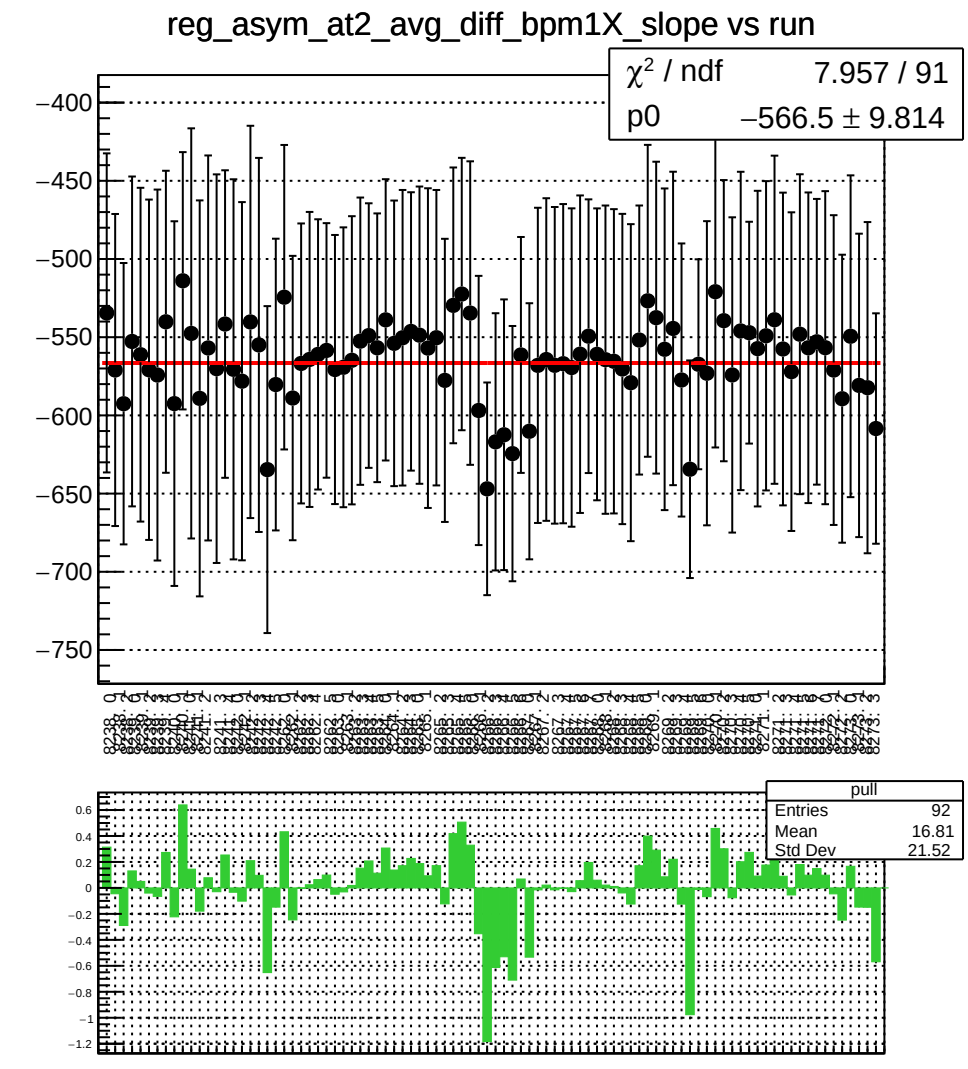

pull1D
Entries 92
Mean 0.00729
Std Dev 0.8532

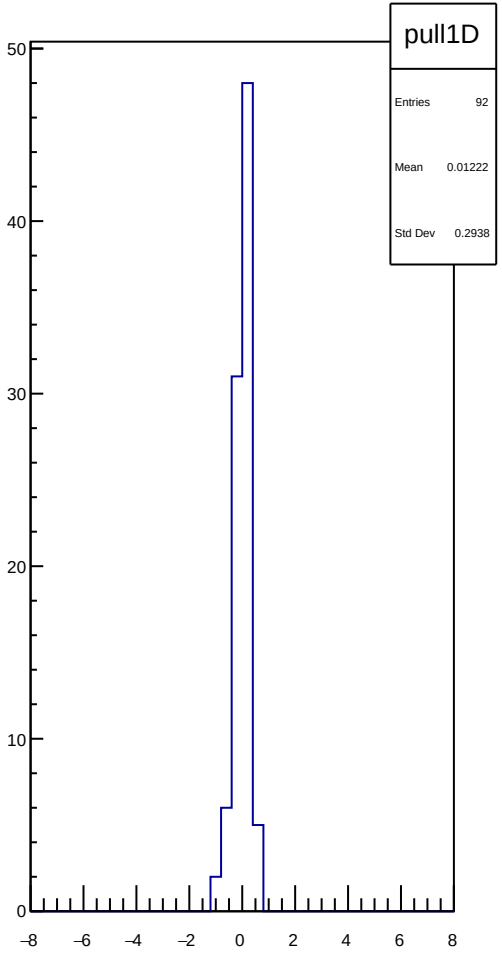

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 85.83 / 91
p0 −11.66 ± 3.4
pull
Entries 92
Mean 920.3
Std Dev 0

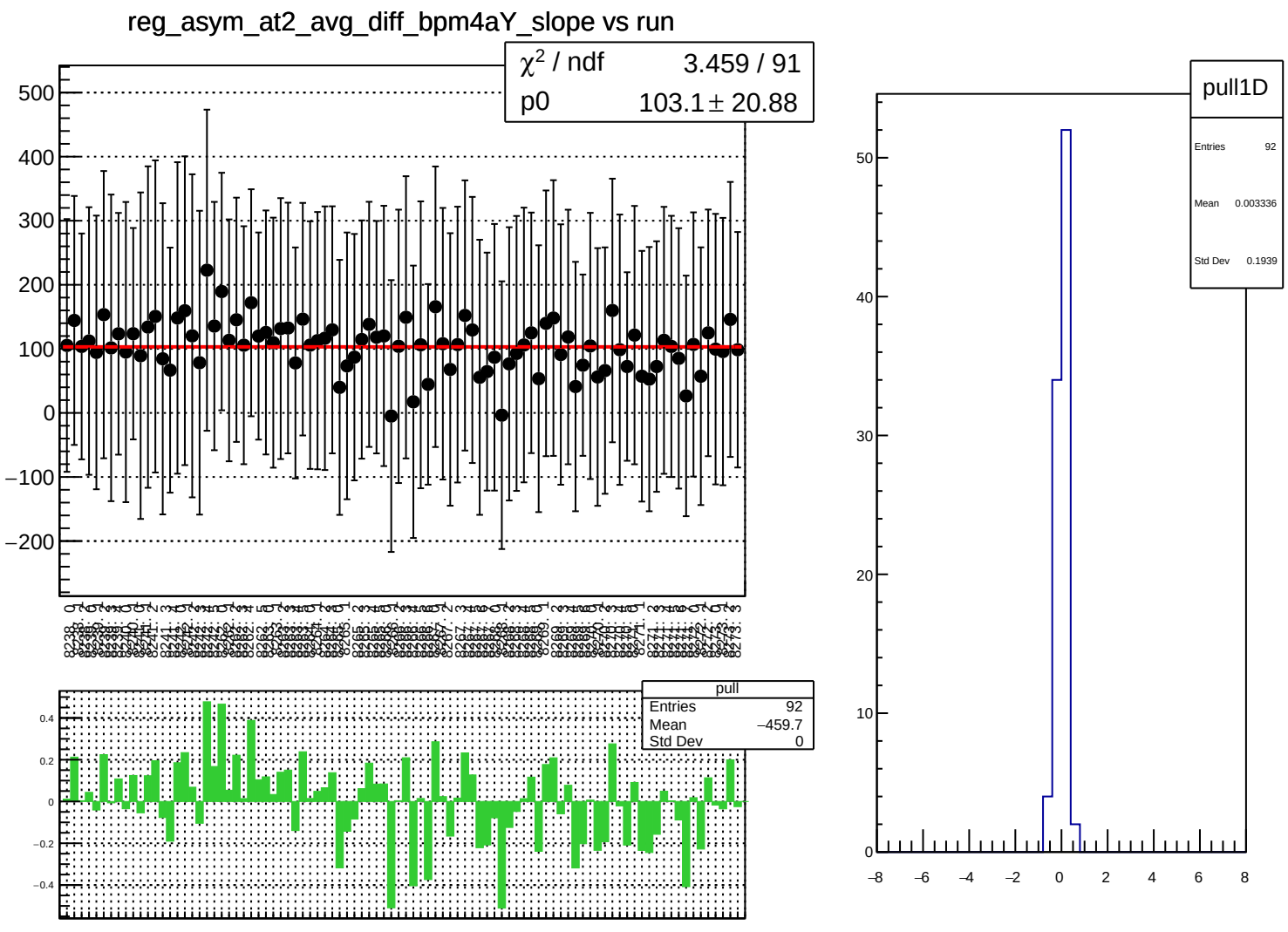

pull1D
Entries 92
Mean 0.003212
Std Dev 0.9659

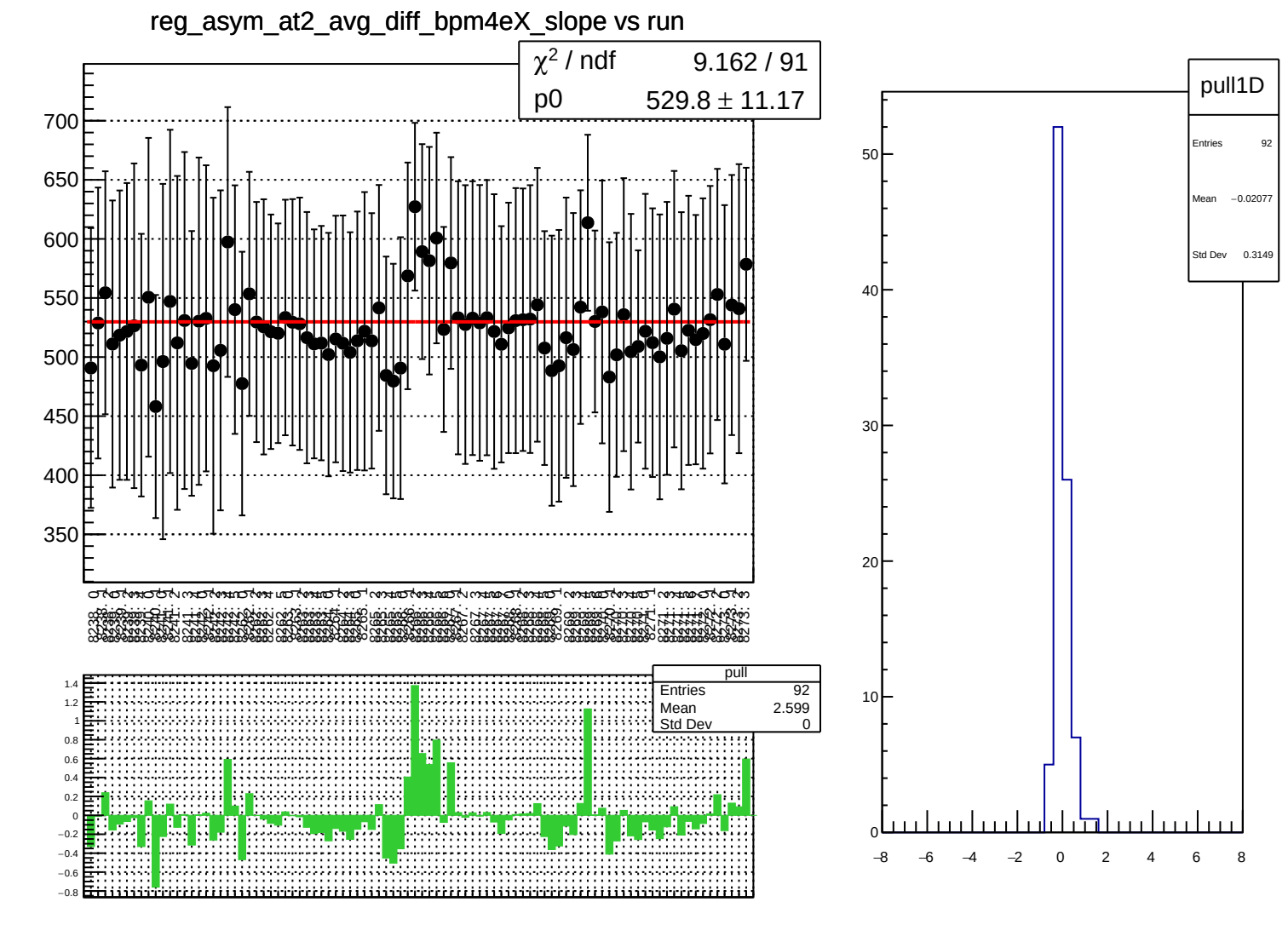

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 72.76 / 91
p0 33.56 ± 0.1838
pull
Entries 92
Mean −879.7
Std Dev 0

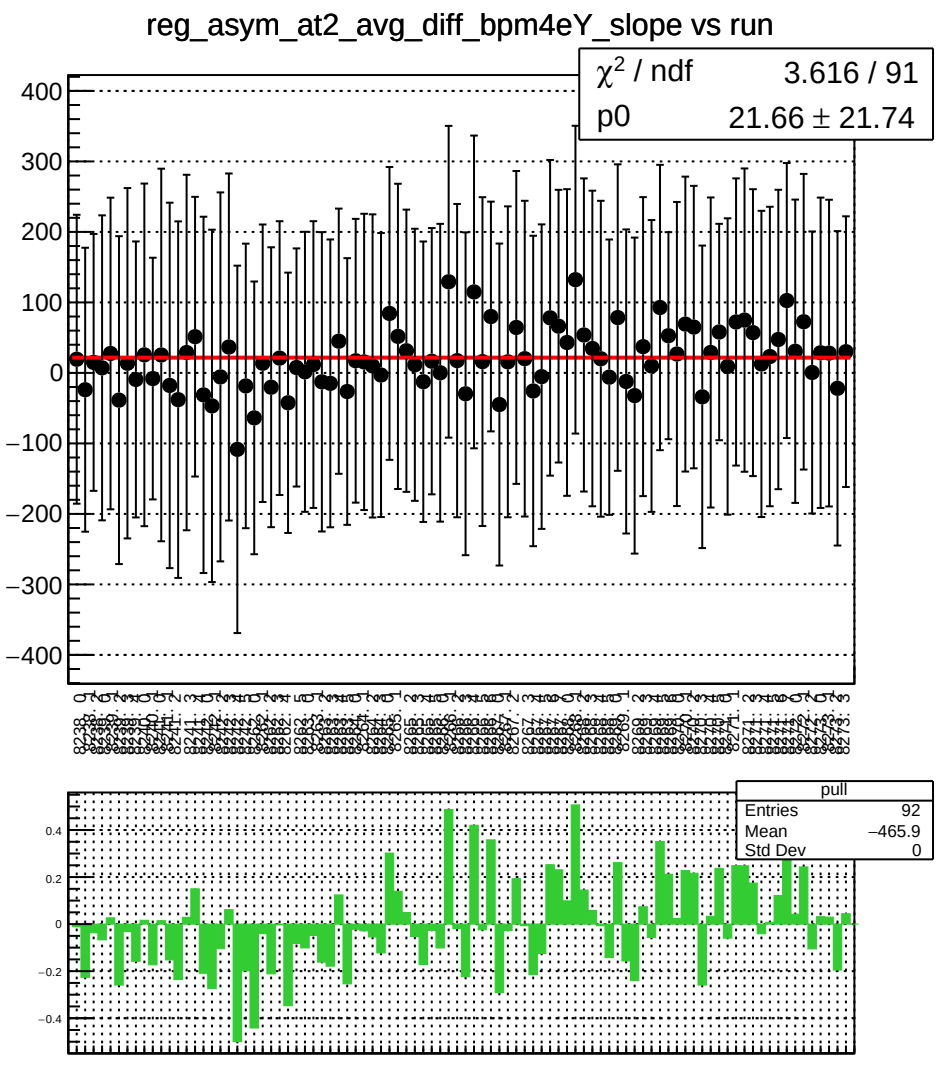

pull1D
Entries 92
Mean −0.003444
Std Dev 0.8893

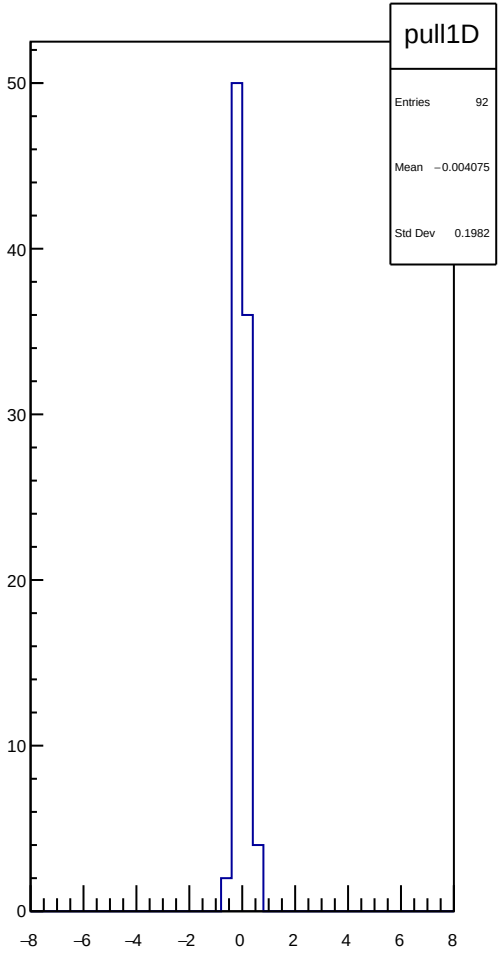

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 7.957 / 91
p0 −566.5 ± 9.814
pull
Entries 92
Mean 16.81
Std Dev 21.52

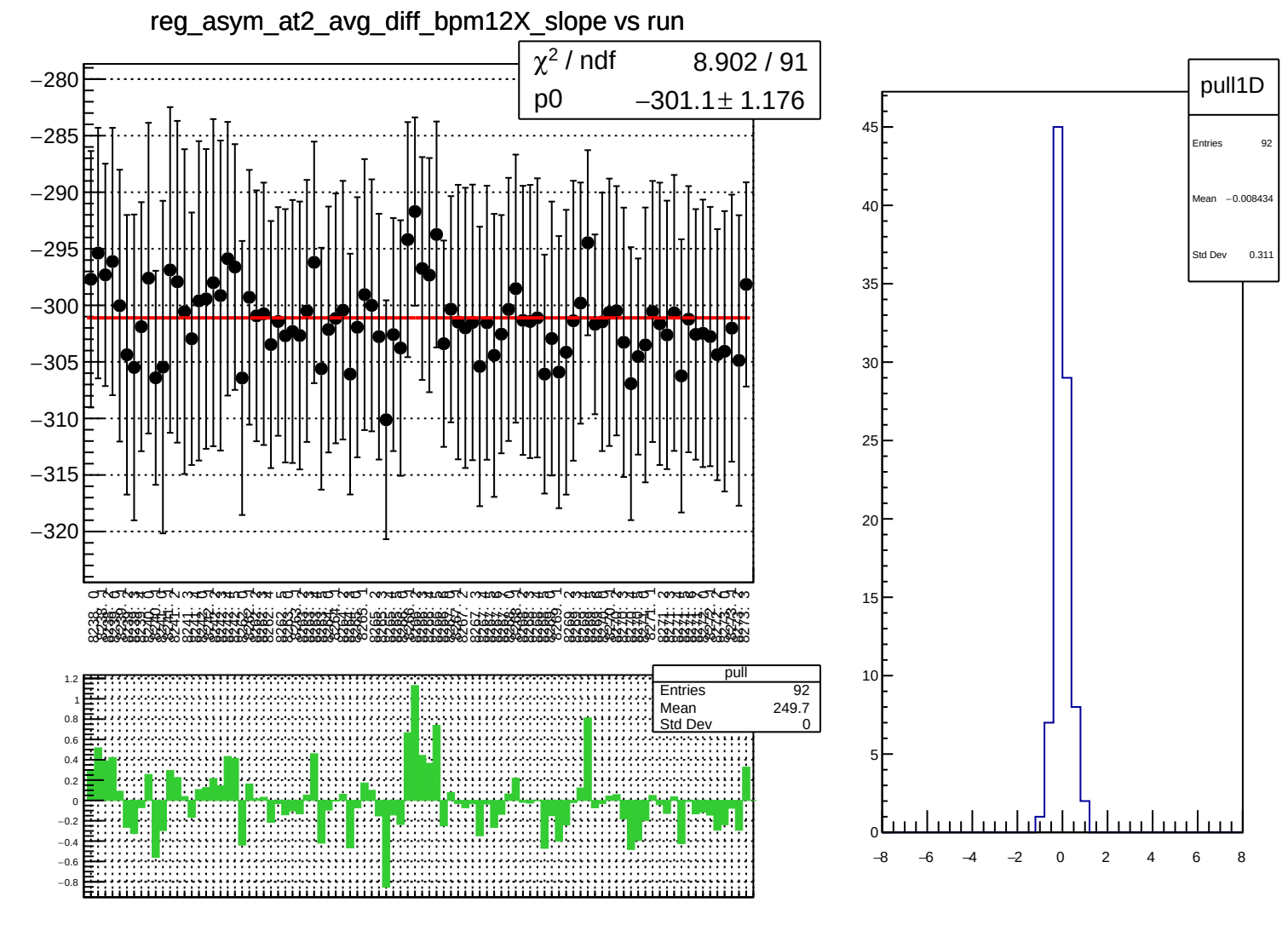

pull1D
Entries 92
Mean 0.01222
Std Dev 0.2938

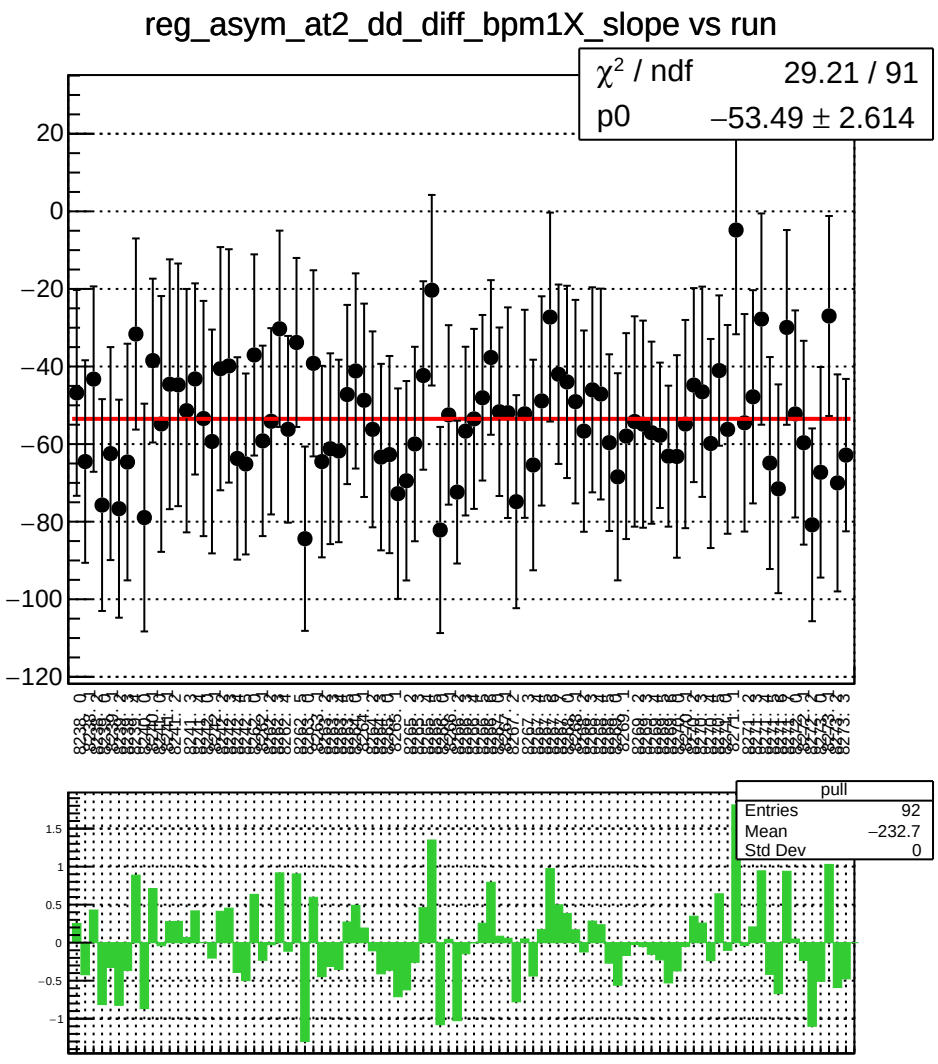

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.459 / 91
p0 103.1 ± 20.88
pull
Entries 92
Mean −459.7
Std Dev 0
pull1D
Entries 92
Mean 0.003336
Std Dev 0.1939

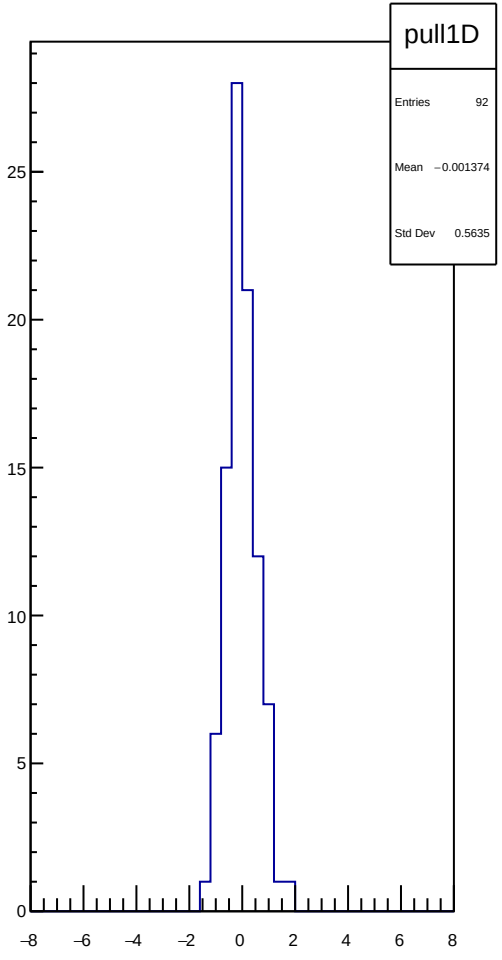

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.162 / 91
p0 529.8 ± 11.17
700
650
600
550
500
450
400
350
pull
Entries 92
Mean 2.599
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean −0.02077
Std Dev 0.3149
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

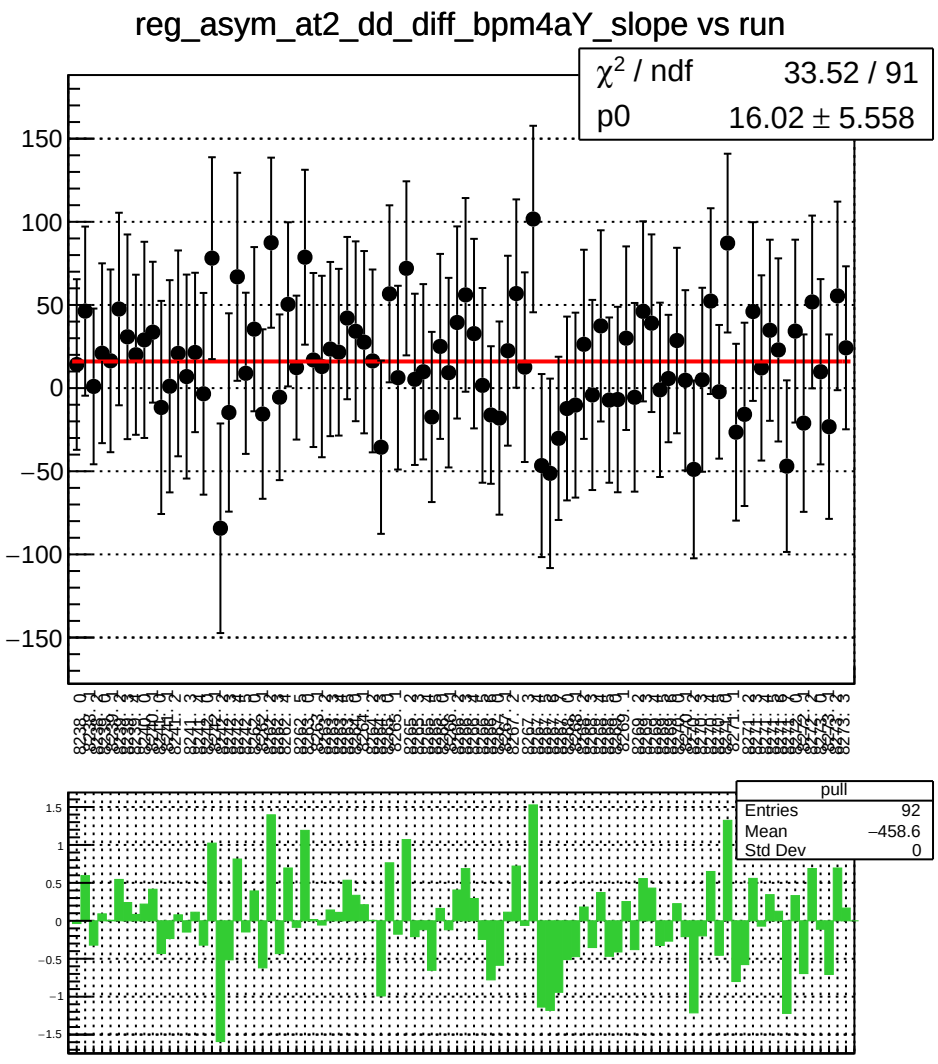

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.616 / 91
p0 21.66 ± 21.74
pull
Entries 92
Mean −465.9
Std Dev 0

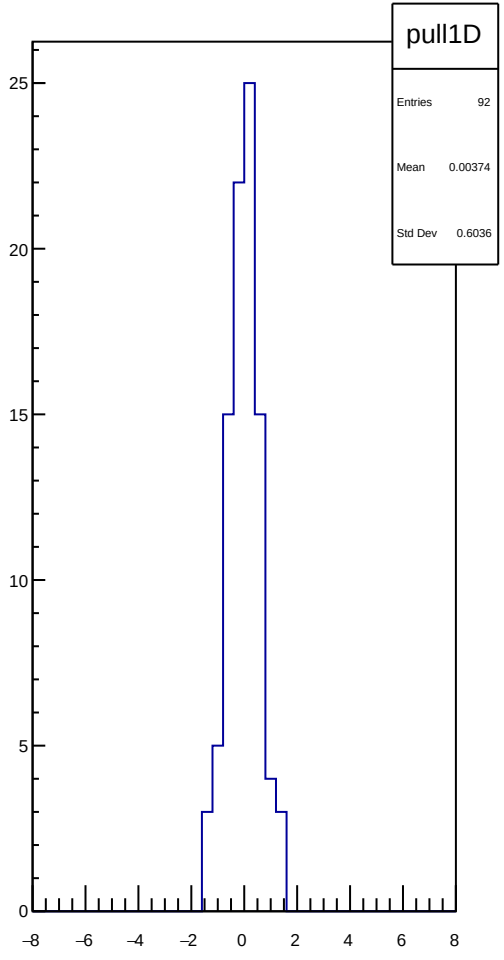

pull1D
Entries 92
Mean −0.004075
Std Dev 0.1982

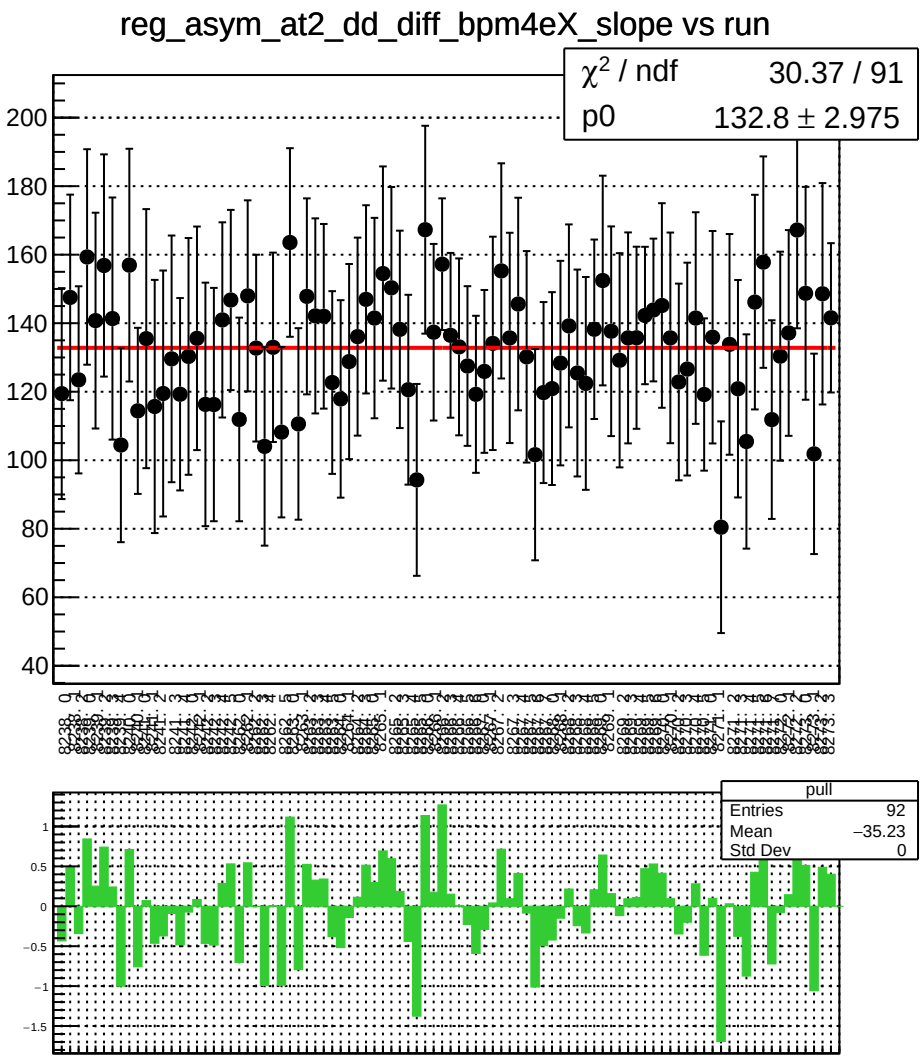

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 8.902 / 91
p0 −301.1± 1.176
pull
Entries 92
Mean 249.7
Std Dev 0
pull1D
Entries 92
Mean −0.008434
Std Dev 0.311

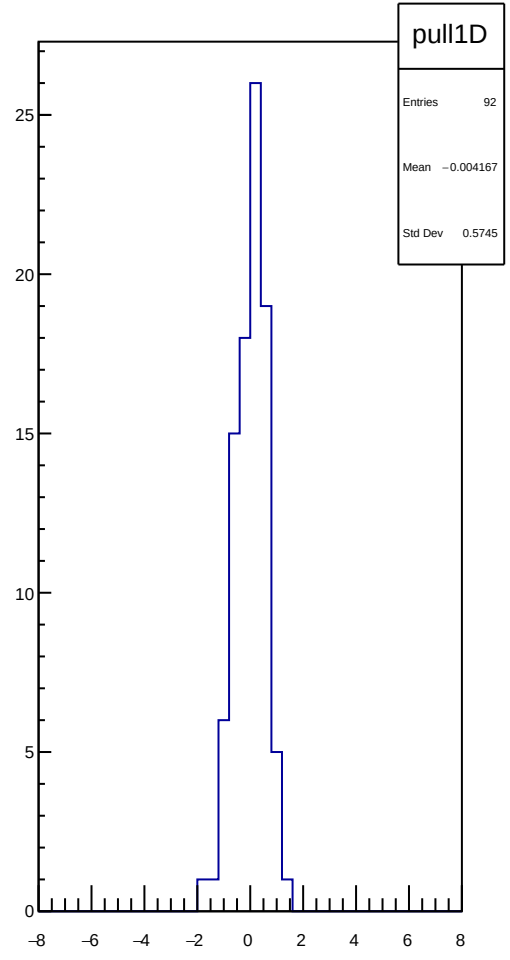

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 29.21 / 91
p0 −53.49 ± 2.614
pull
Entries 92
Mean −232.7
Std Dev 0

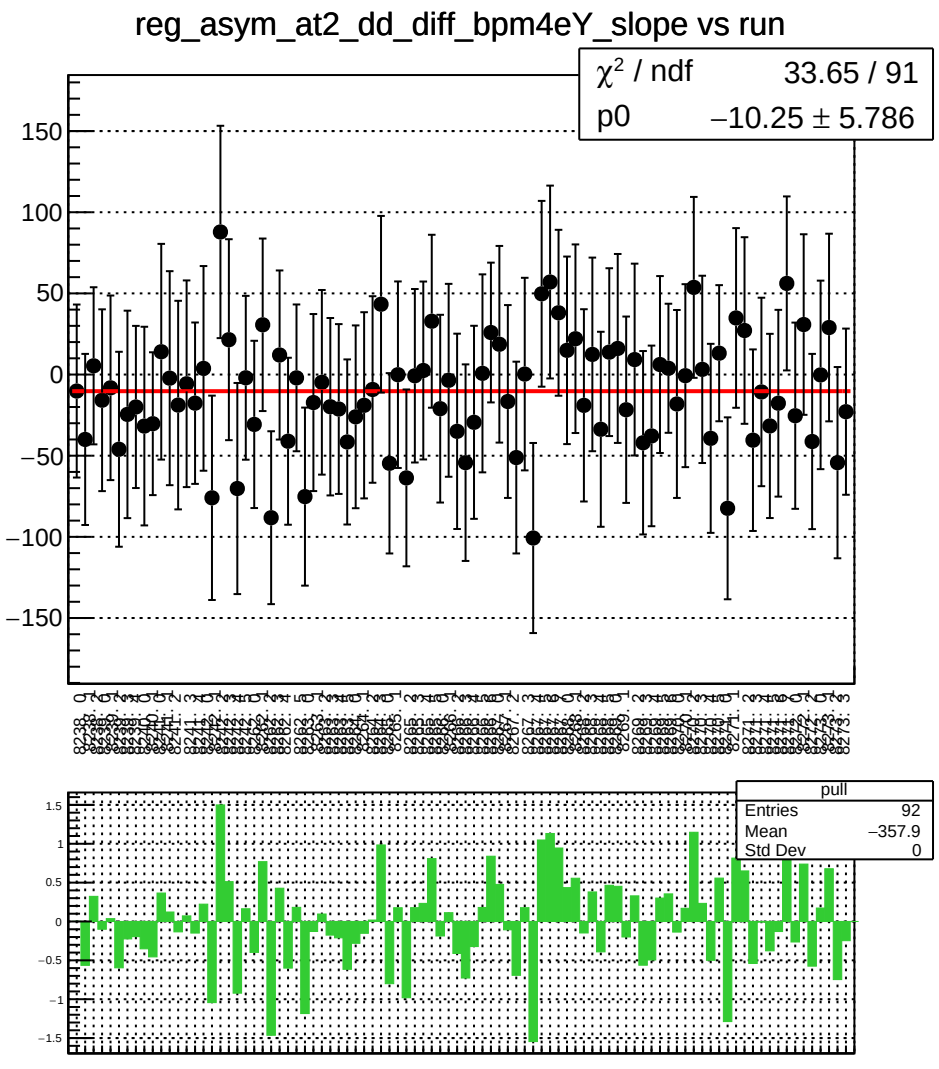

pull1D
Entries 92
Mean −0.001374
Std Dev 0.5635

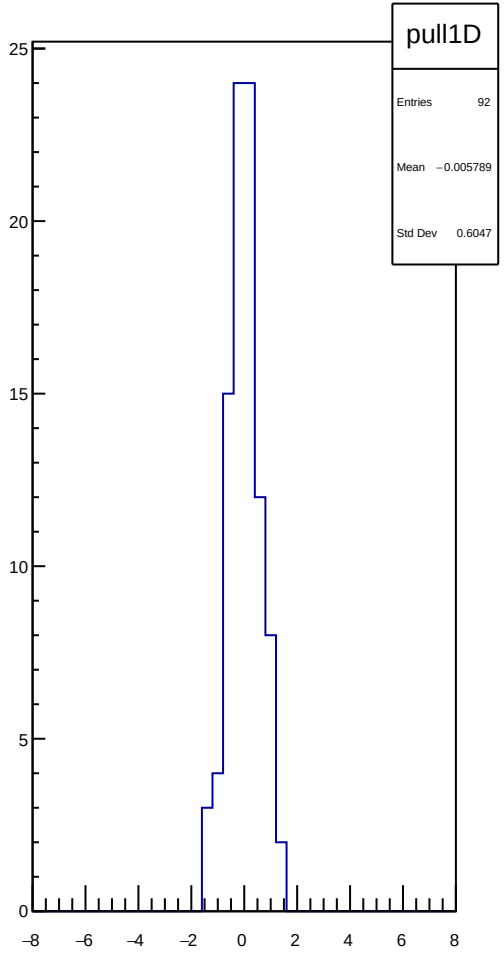

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.52 / 91
p0 16.02 ± 5.558
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −458.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

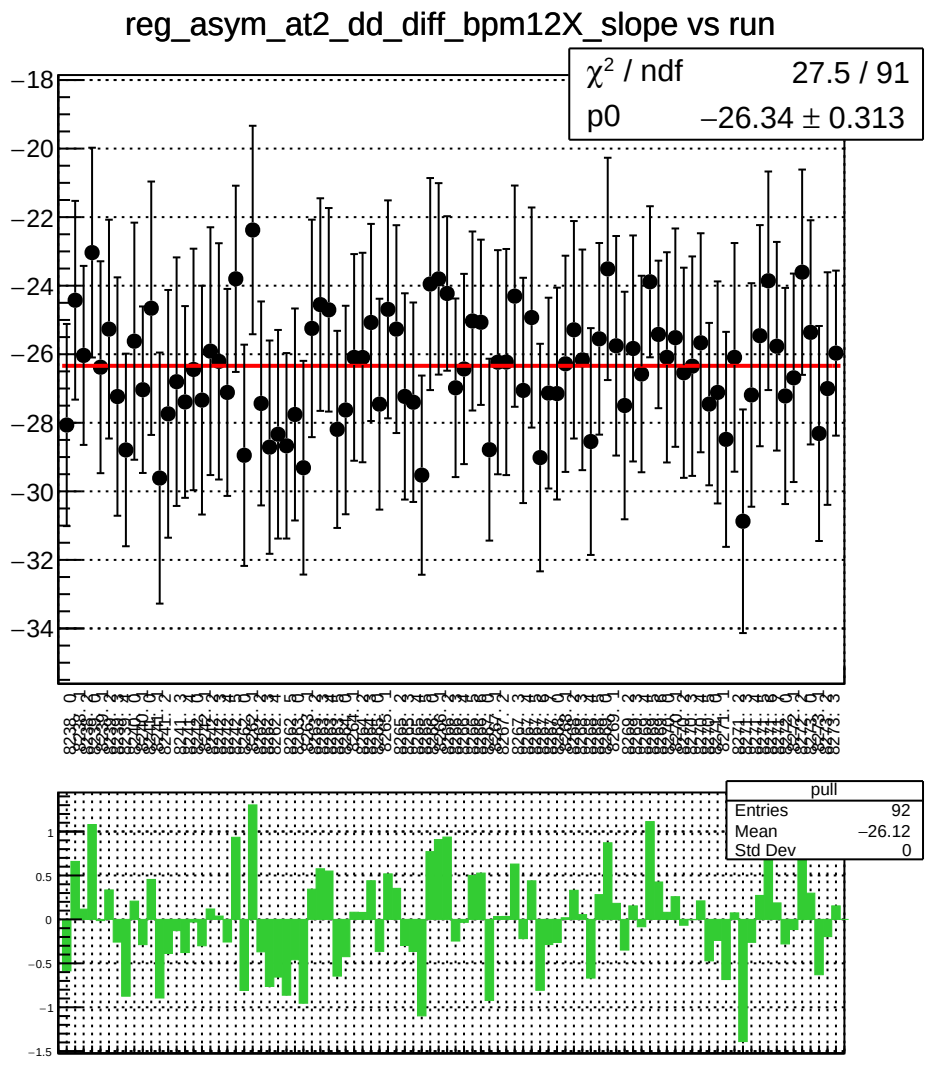

pull1D
Entries 92
Mean 0.00374
Std Dev 0.6036
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

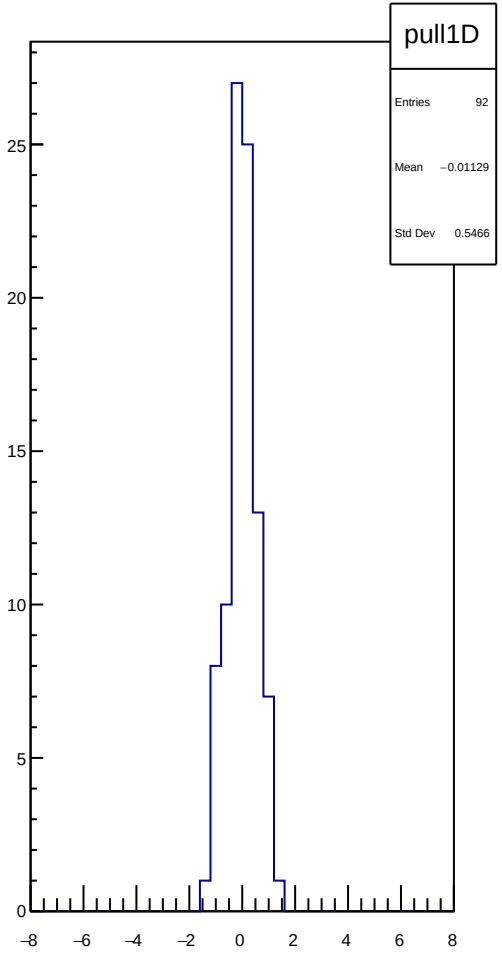

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.37 / 91
p0 132.8 ± 2.975
pull
Entries 92
Mean −35.23
Std Dev 0

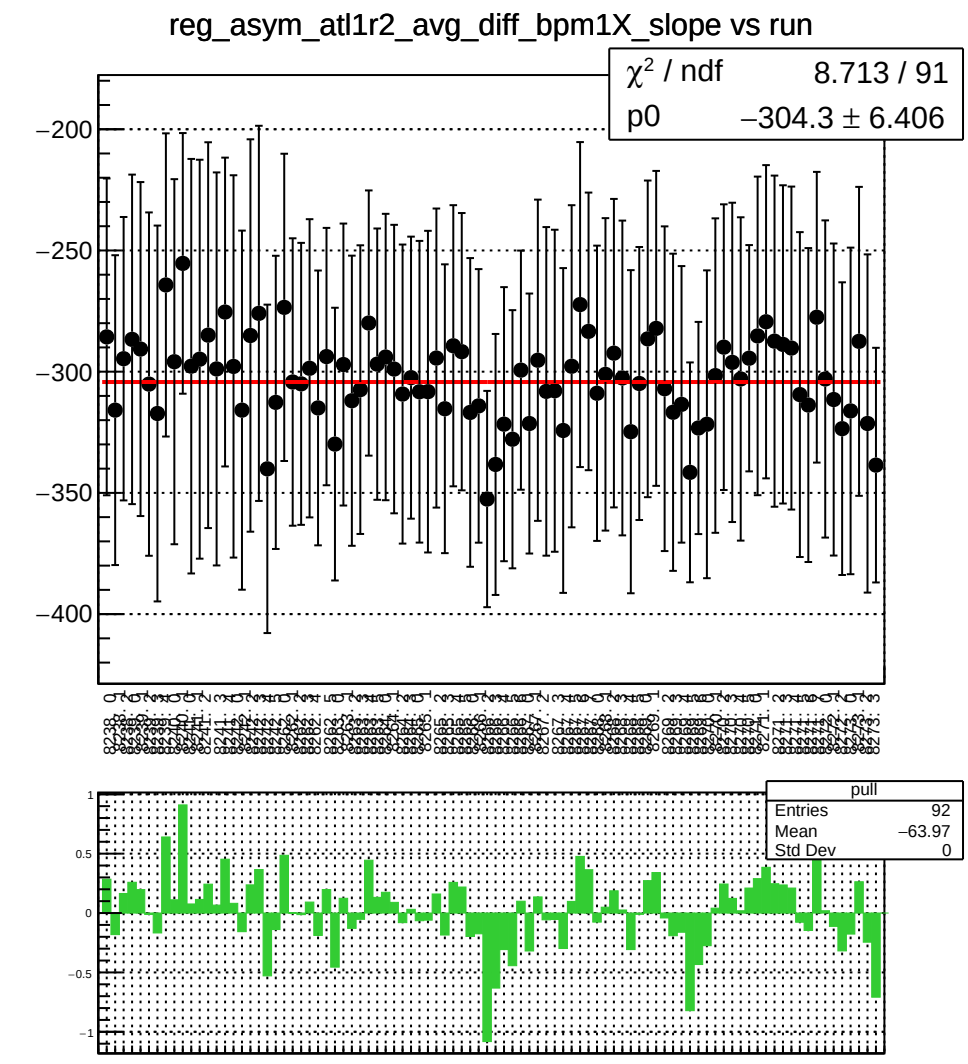

pull1D
Entries 92
Mean −0.004167
Std Dev 0.5745

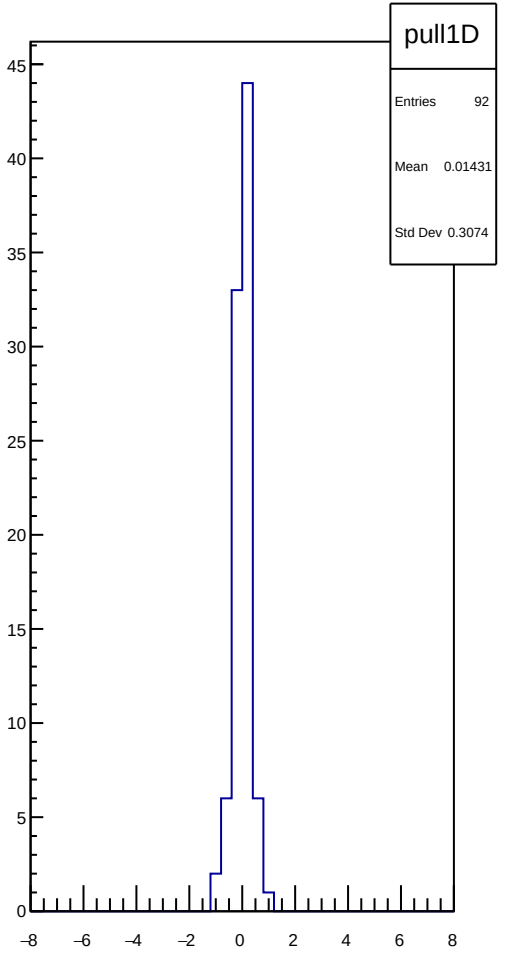

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.65 / 91
p0 −10.25 ± 5.786
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −357.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

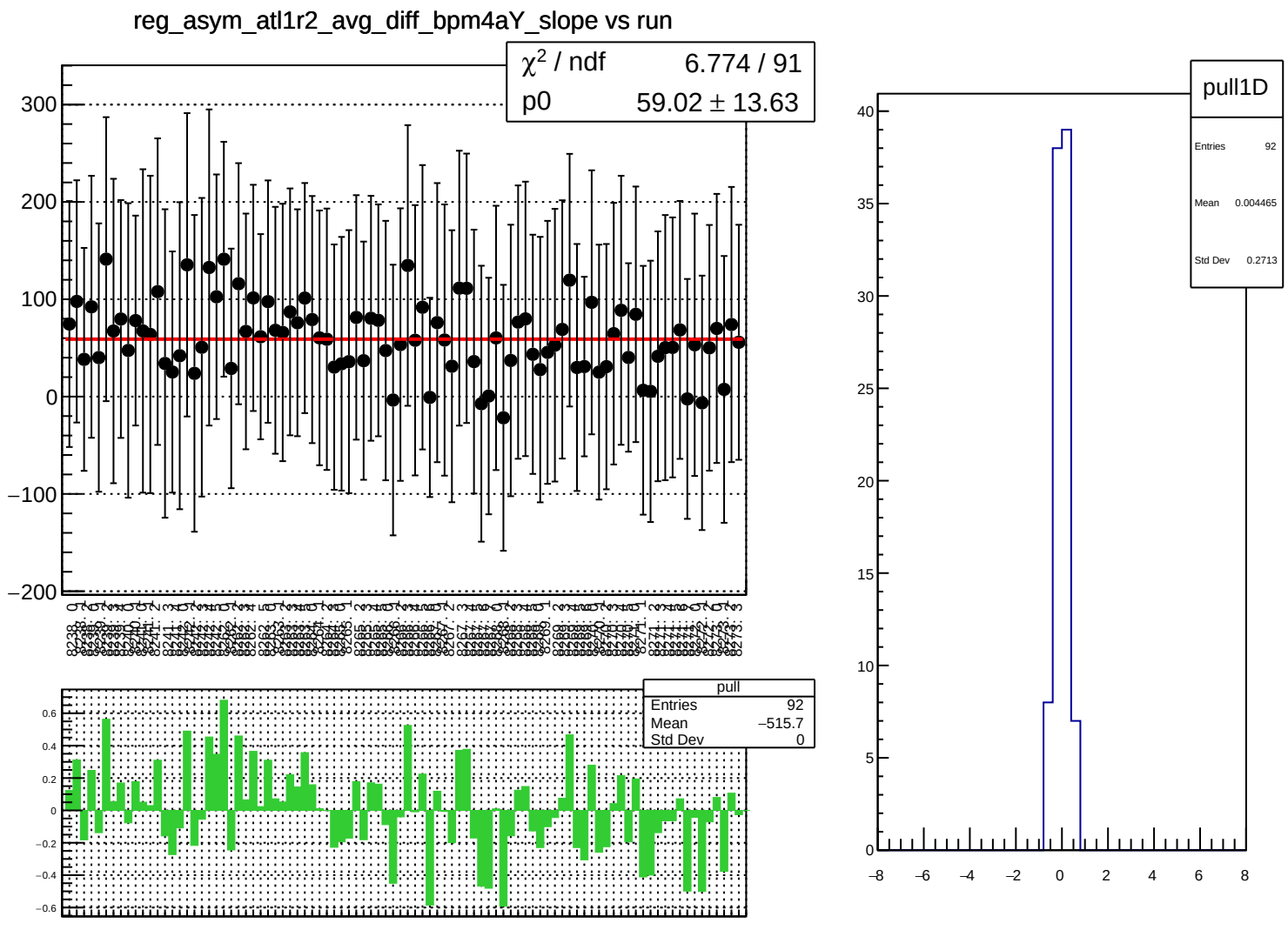

pull1D
Entries 92
Mean −0.005789
Std Dev 0.6047
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

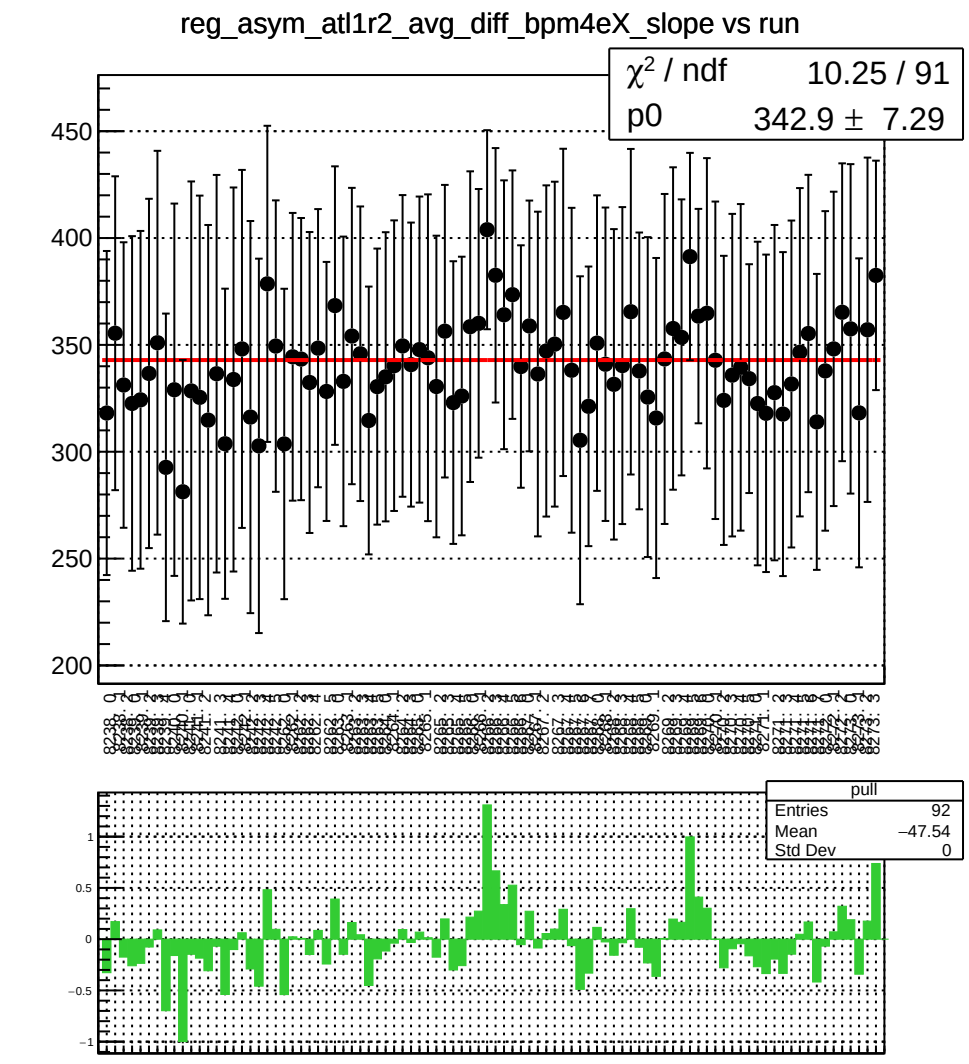

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 27.5 / 91
p0 −26.34 ± 0.313
pull
Entries 92
Mean −26.12
Std Dev 0

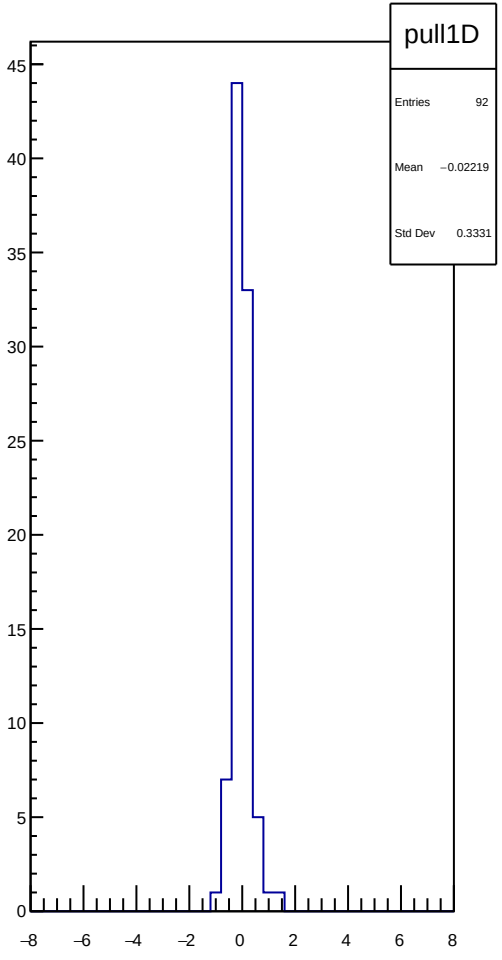

pull1D
Entries 92
Mean −0.01129
Std Dev 0.5466

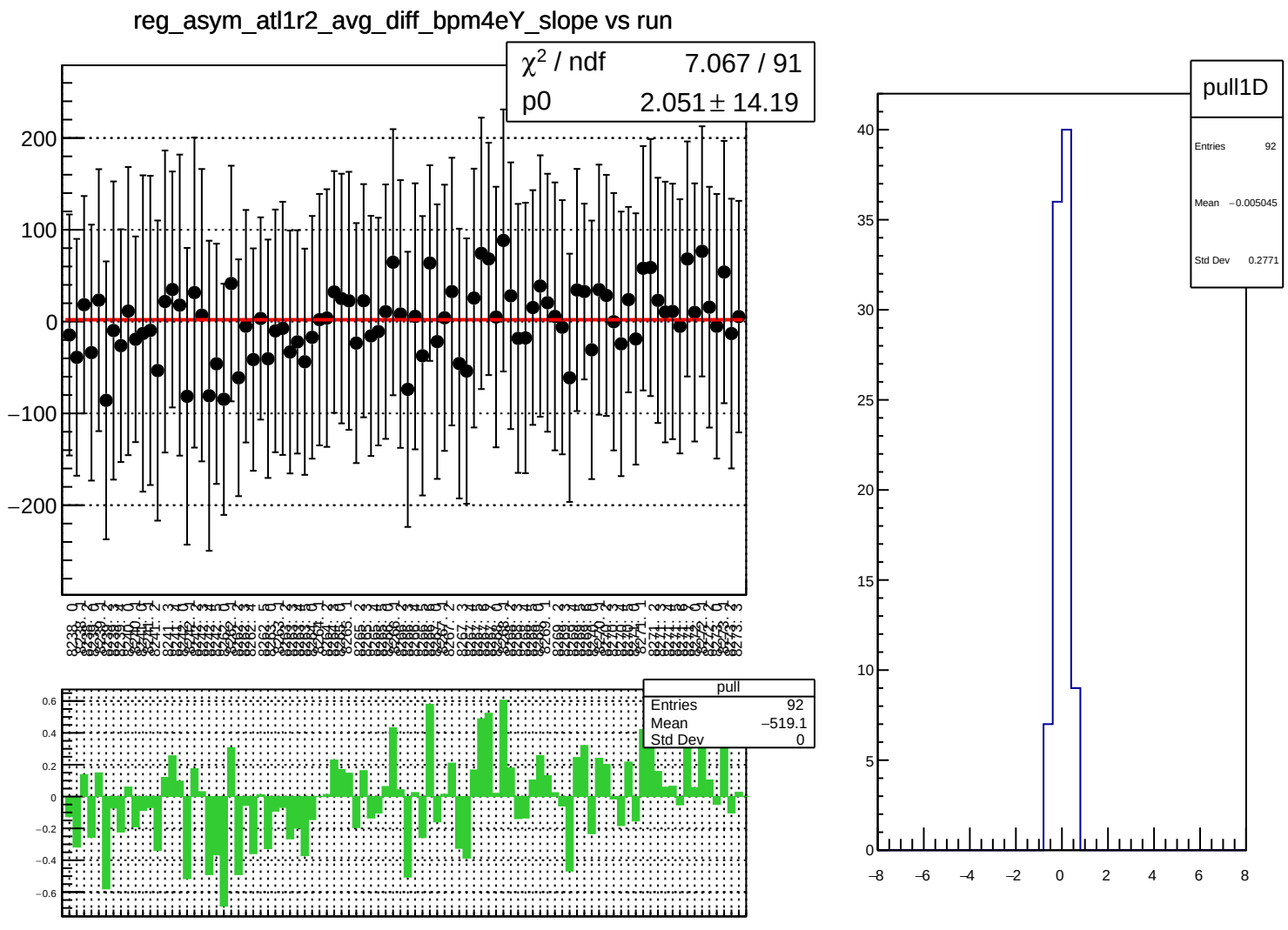

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 8.713 / 91
p0 −304.3 ± 6.406
−200
−250
−300
−350
−400
pull
Entries 92
Mean −63.97
Std Dev 0
1
0.5
0
−0.5
−1

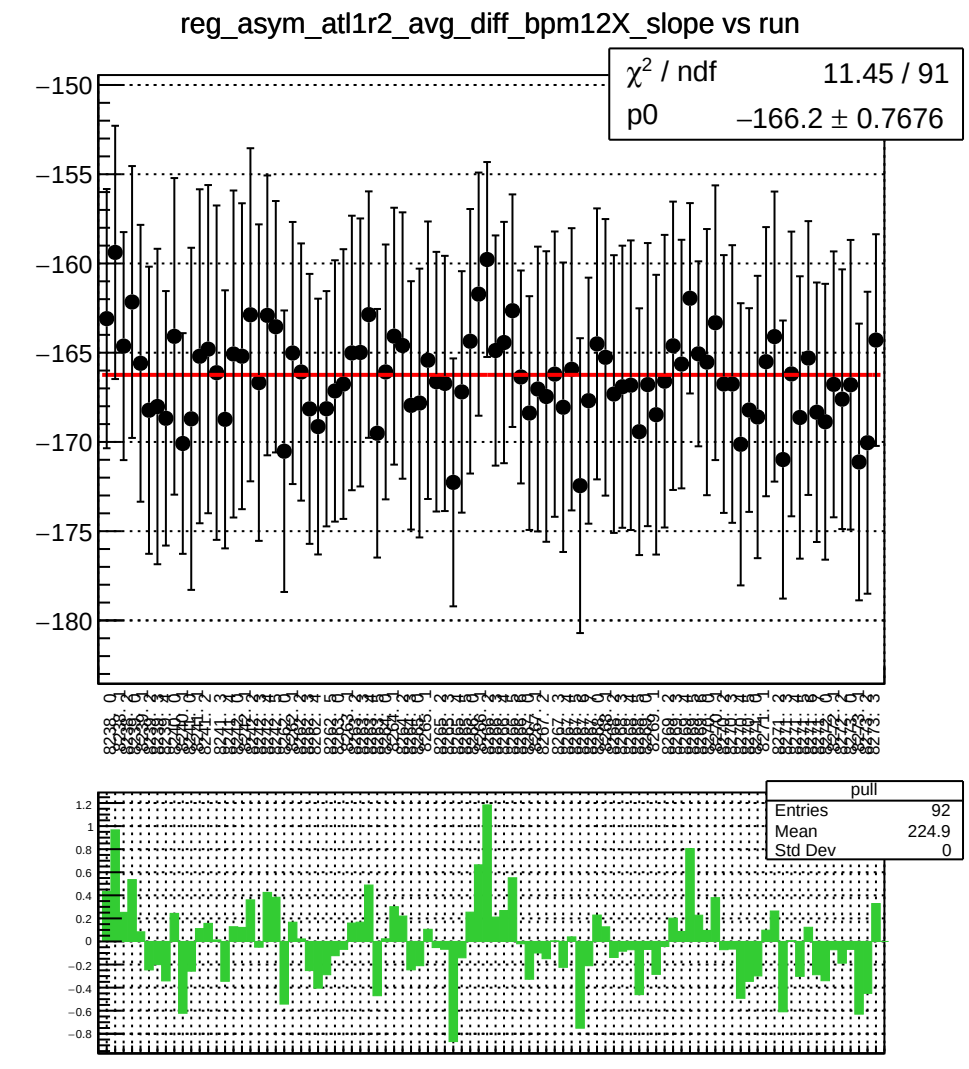

pull1D
Entries 92
Mean 0.01431
Std Dev 0.3074
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

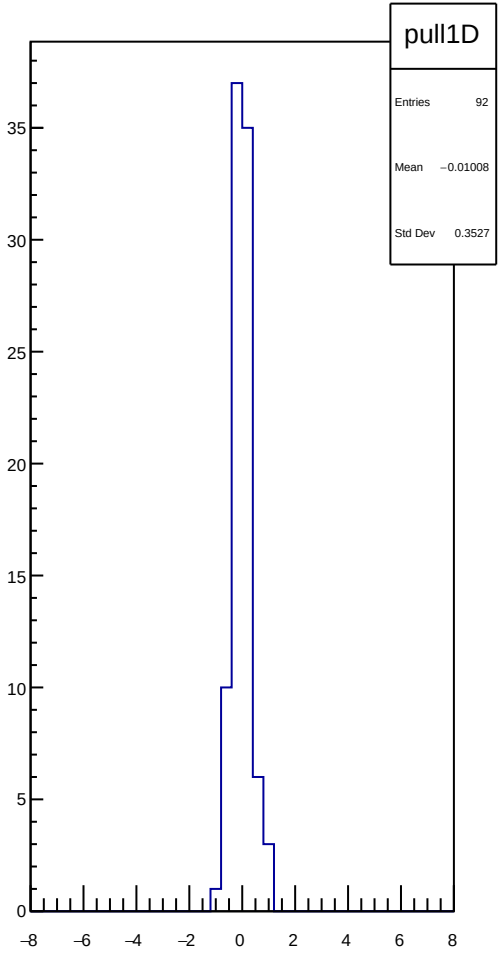

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.774 / 91
p0 59.02 ± 13.63
300
200
100
0
−100
−200
pull
Entries 92
Mean −515.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean 0.004465
Std Dev 0.2713
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

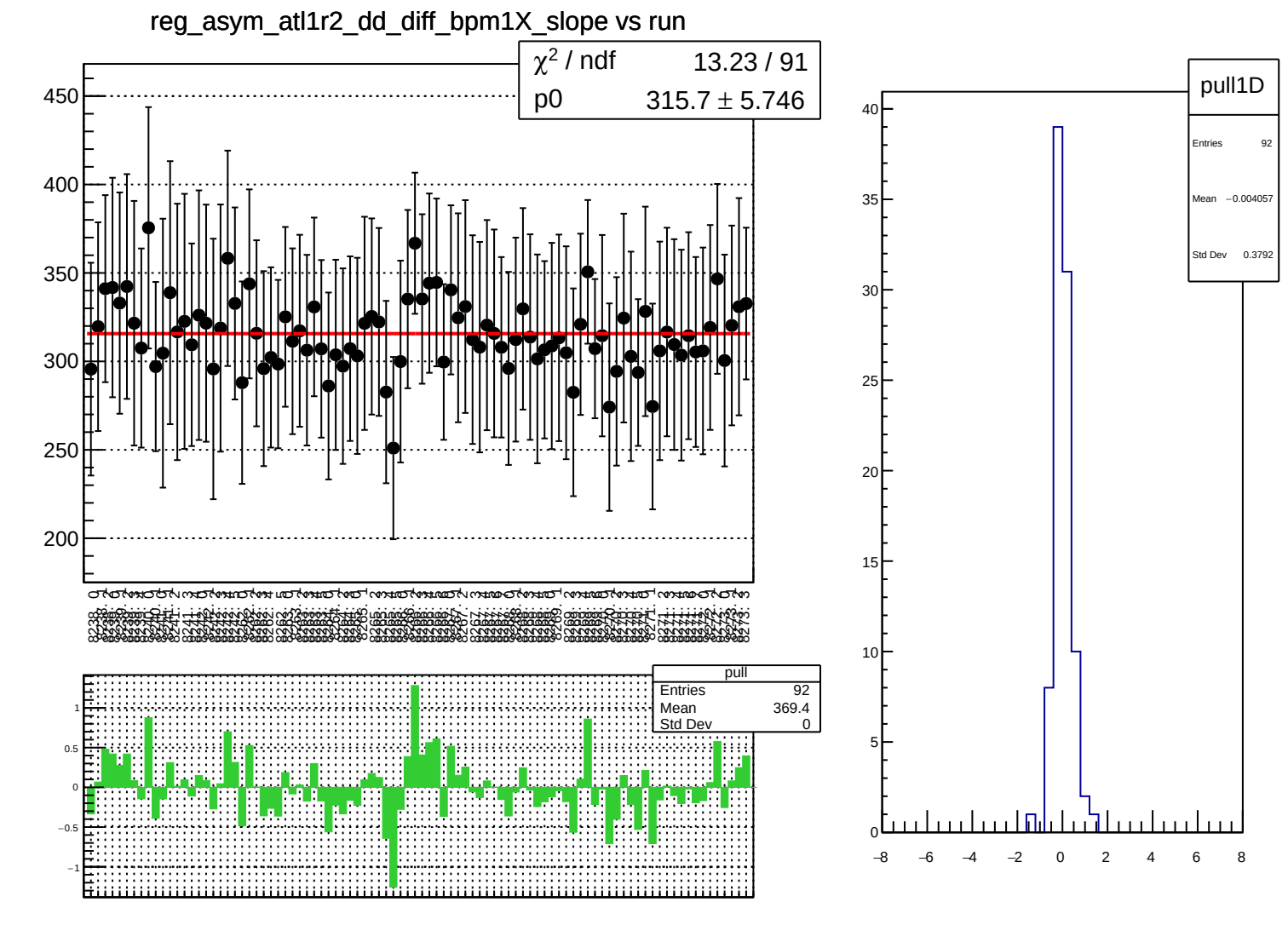

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.25 / 91
p0 342.9 ± 7.29
pull
Entries 92
Mean −47.54
Std Dev 0

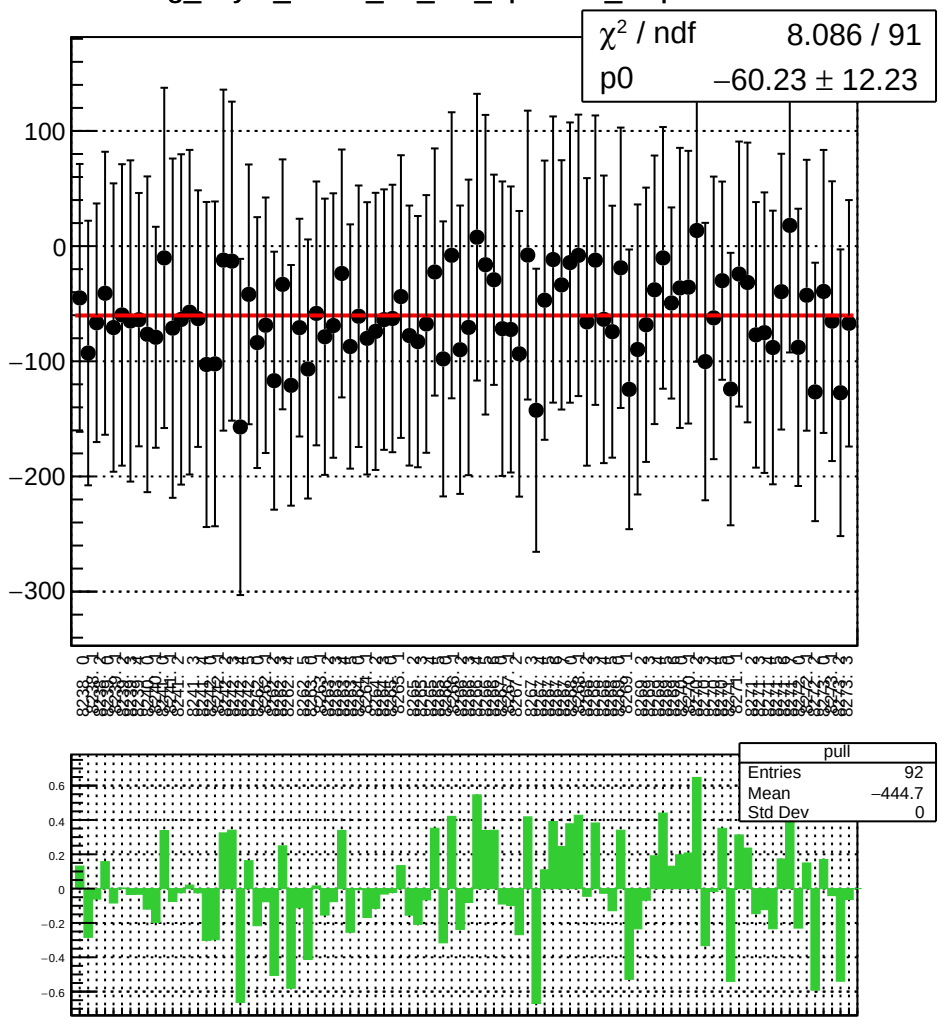

pull1D
Entries 92
Mean −0.02219
Std Dev 0.3331

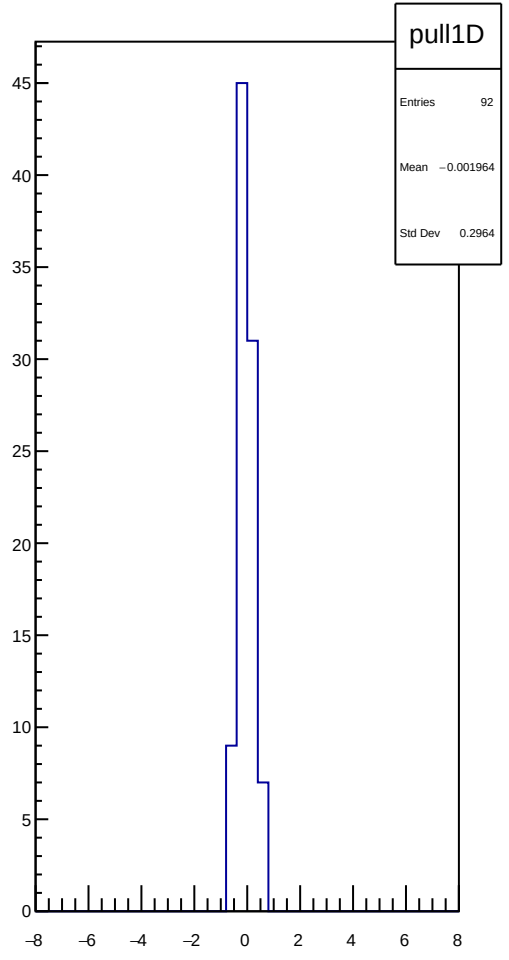

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.067 / 91
p0 2.051 ± 14.19
200
100
0
−100
−200
pull
Entries 92
Mean −519.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean −0.005045
Std Dev 0.2771
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

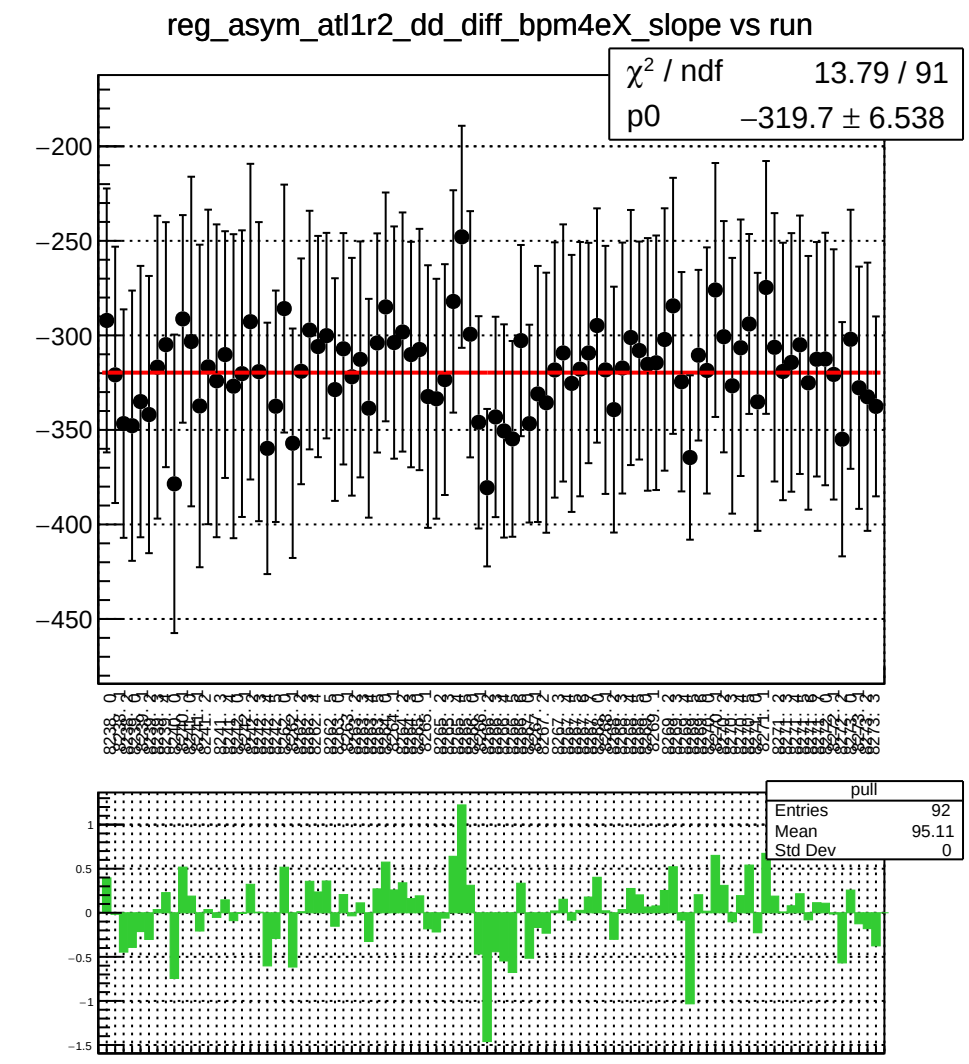

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 11.45 / 91
p0 −166.2 ± 0.7676
pull
Entries 92
Mean 224.9
Std Dev 0

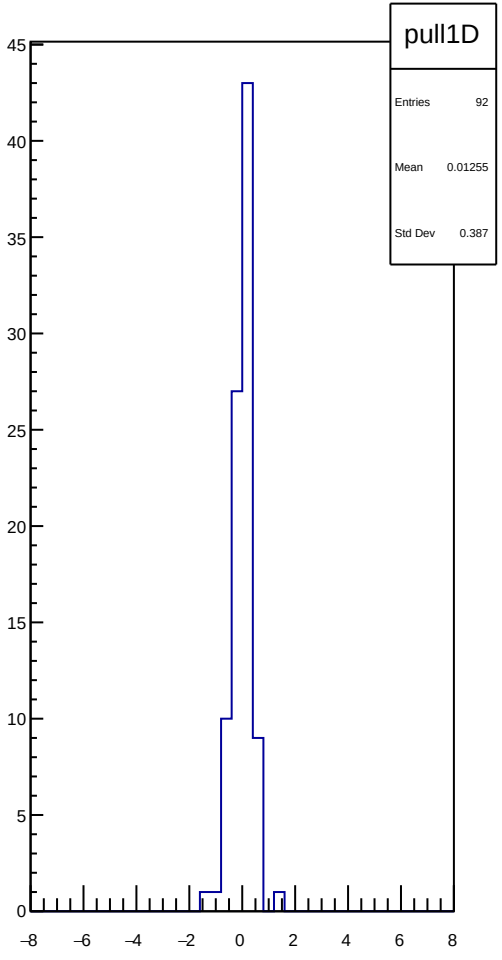

pull1D
Entries 92
Mean −0.01008
Std Dev 0.3527

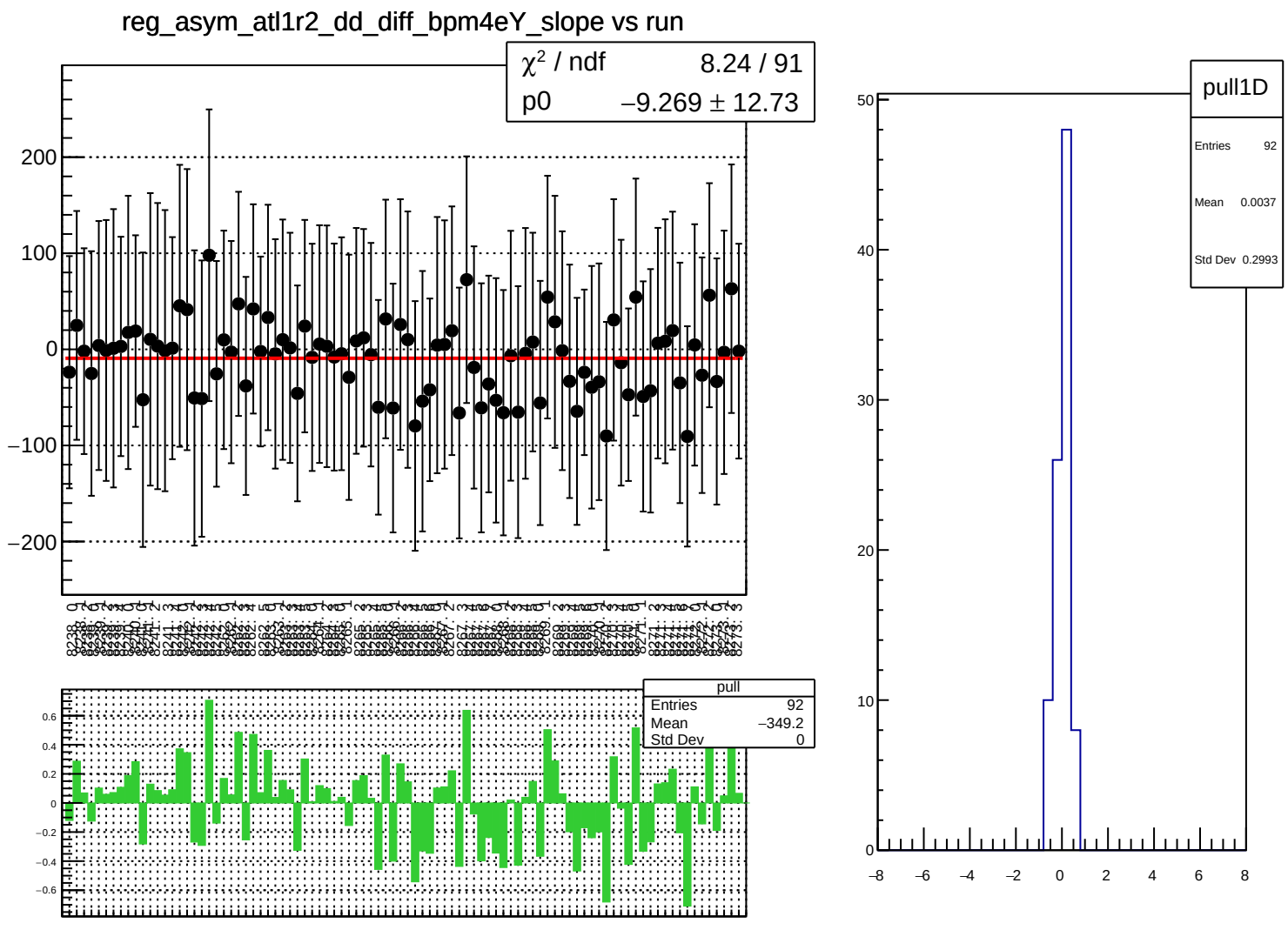

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 13.23 / 91
p0 315.7 ± 5.746
pull
Entries 92
Mean 369.4
Std Dev 0
pull1D
Entries 92
Mean −0.004057
Std Dev 0.3792

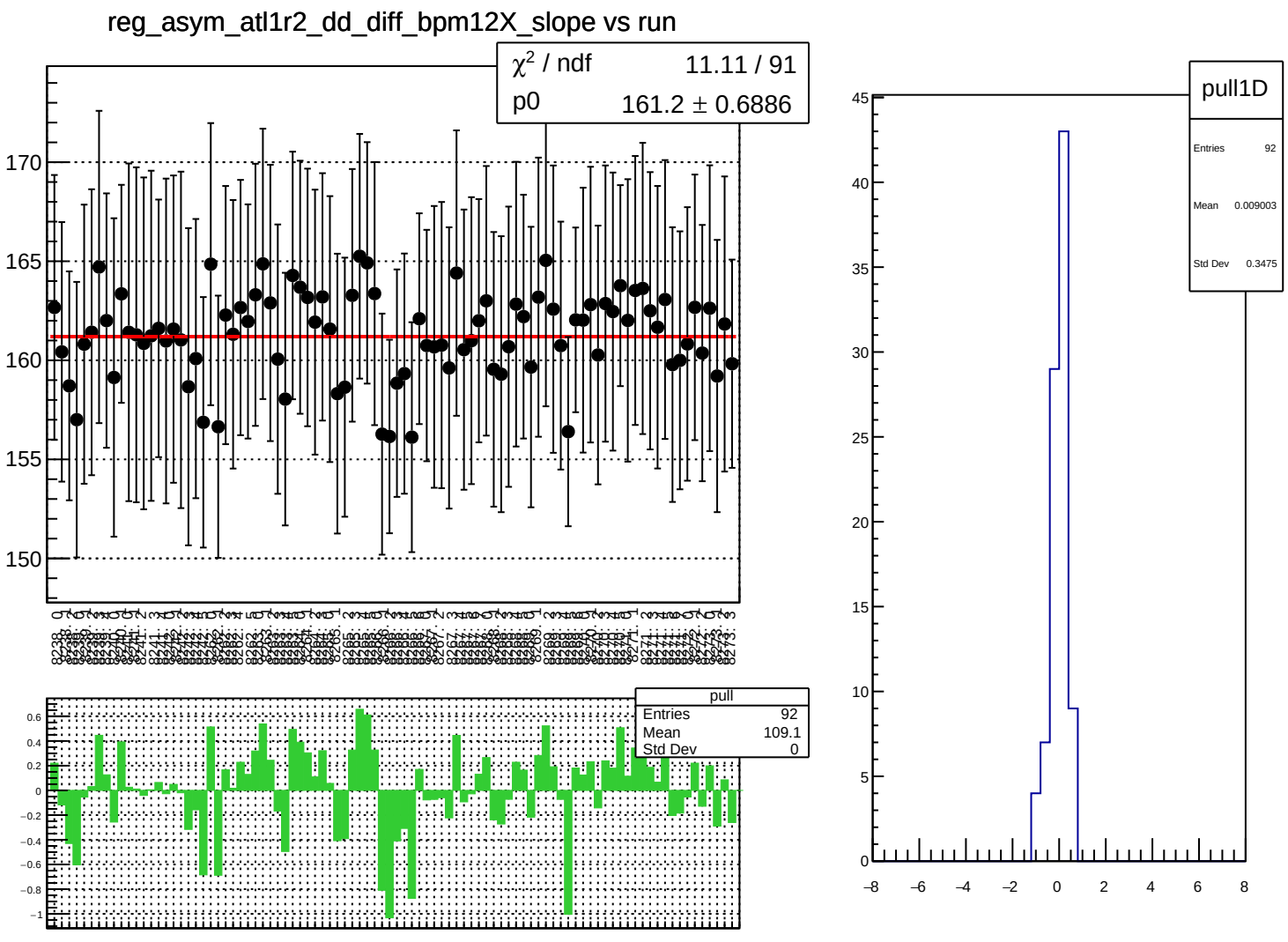

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.086 / 91
p0 −60.23 ± 12.23
100
0
−100
−200
−300
pull
Entries 92
Mean −444.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

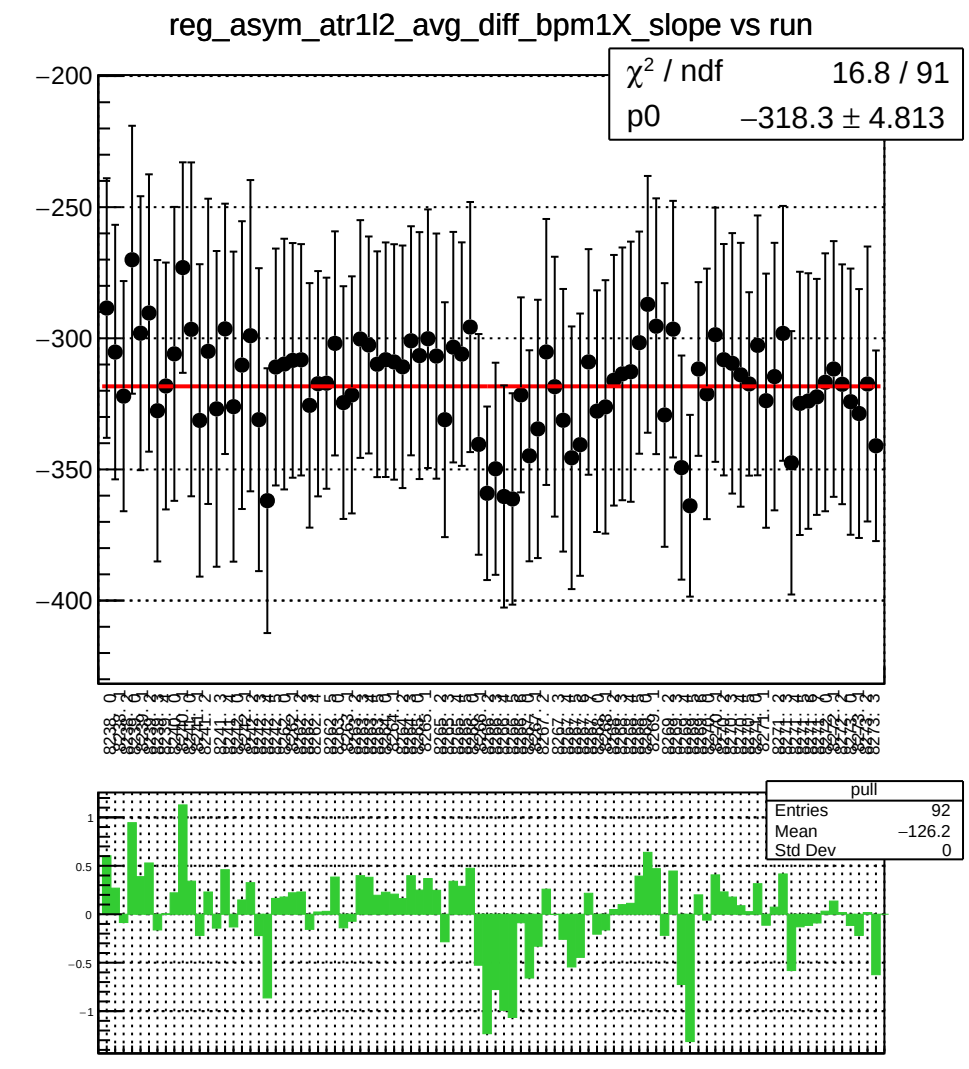

pull1D
Entries 92
Mean −0.001964
Std Dev 0.2964
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

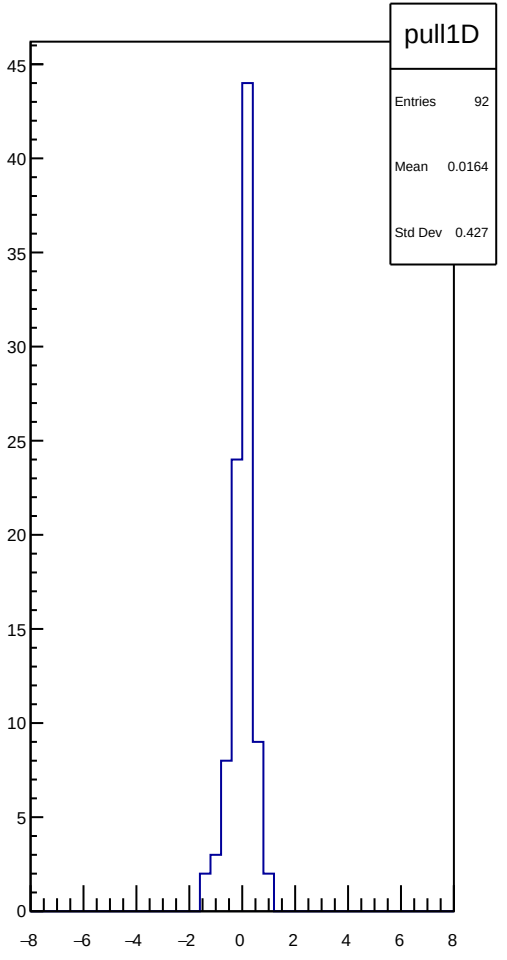

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.79 / 91
p0 −319.7 ± 6.538
pull
Entries 92
Mean 95.11
Std Dev 0

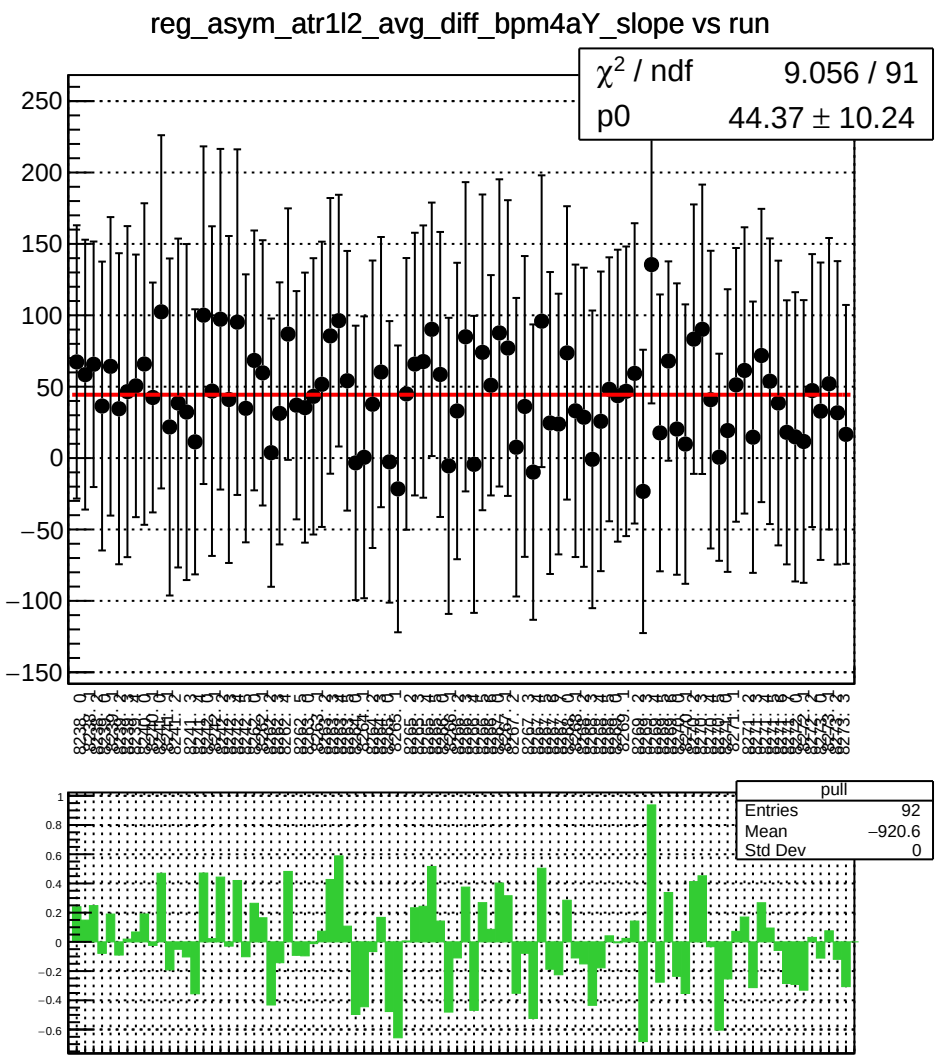

pull1D
Entries 92
Mean 0.01255
Std Dev 0.387

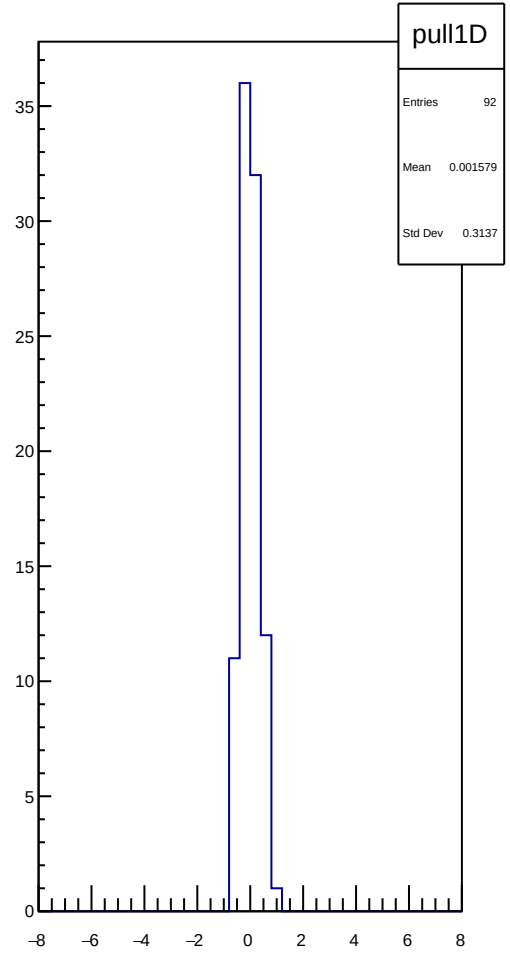

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.24 / 91
p0 −9.269 ± 12.73
200
100
0
−100
−200
pull
Entries 92
Mean −349.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean 0.0037
Std Dev 0.2993
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

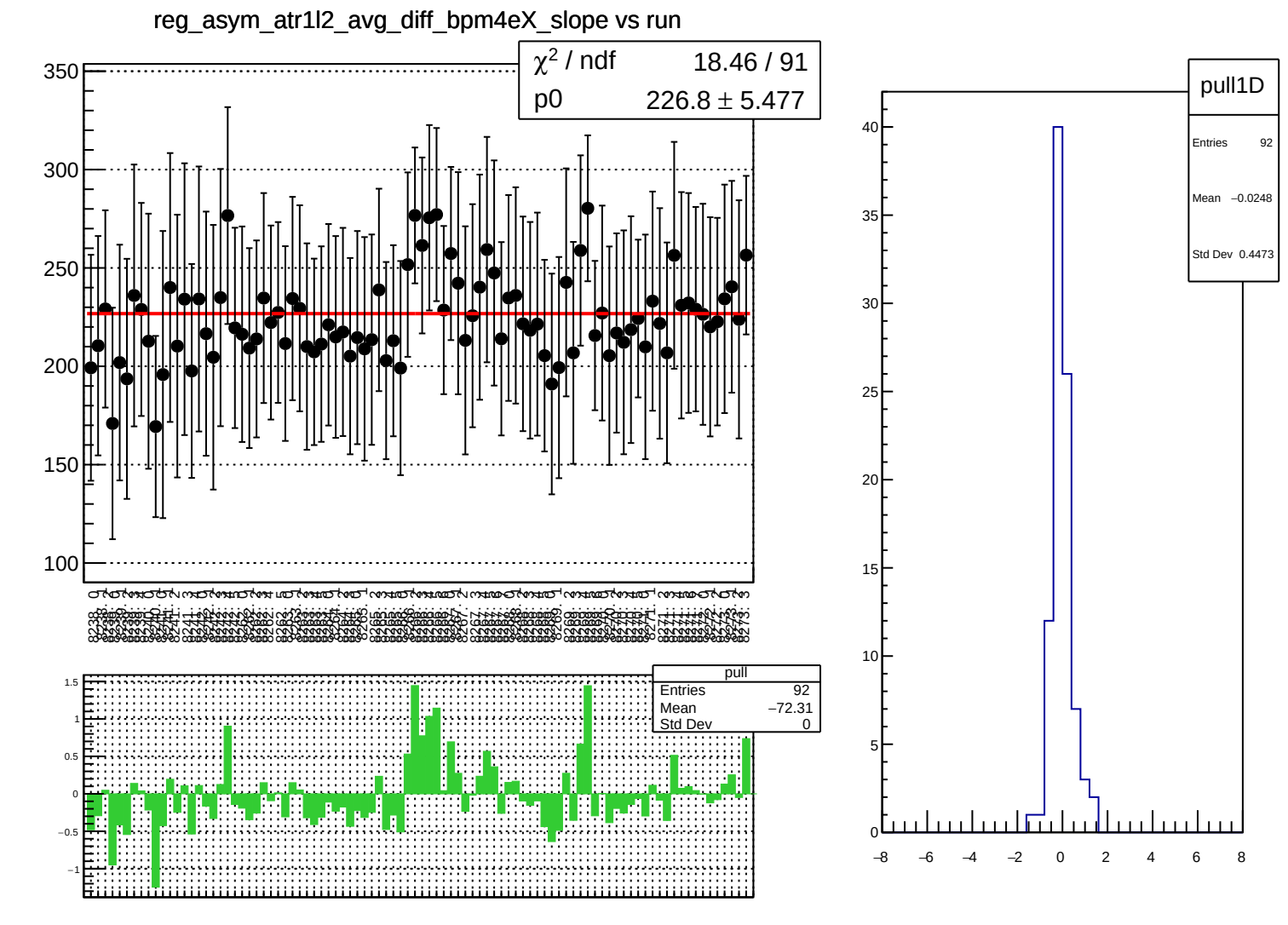

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 11.11 / 91
p0 161.2 ± 0.6886
170
165
160
155
150
pull
Entries 92
Mean 109.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 92
Mean 0.009003
Std Dev 0.3475
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

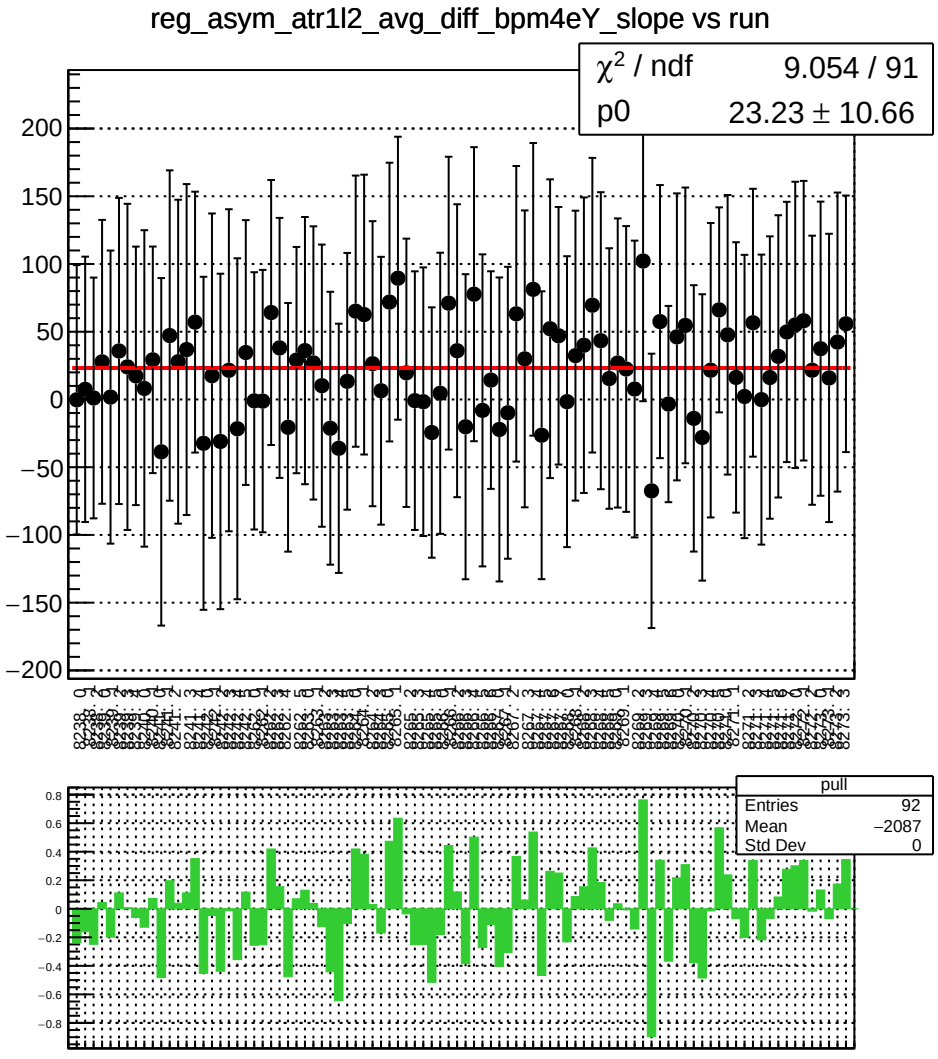

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 16.8 / 91
p0 −318.3 ± 4.813
−200
−250
−300
−350
−400
pull
Entries 92
Mean −126.2
Std Dev 0
1
0.5
0
−0.5
−1

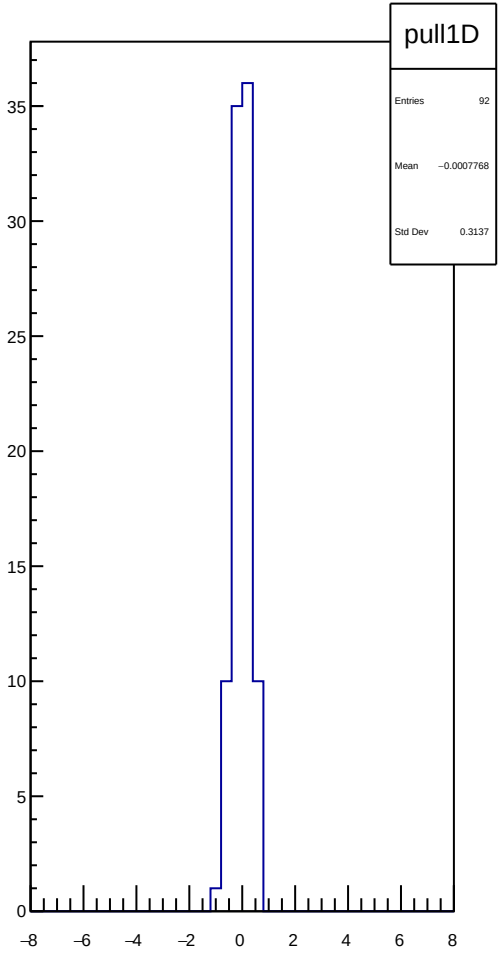

pull1D
Entries 92
Mean 0.0164
Std Dev 0.427
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

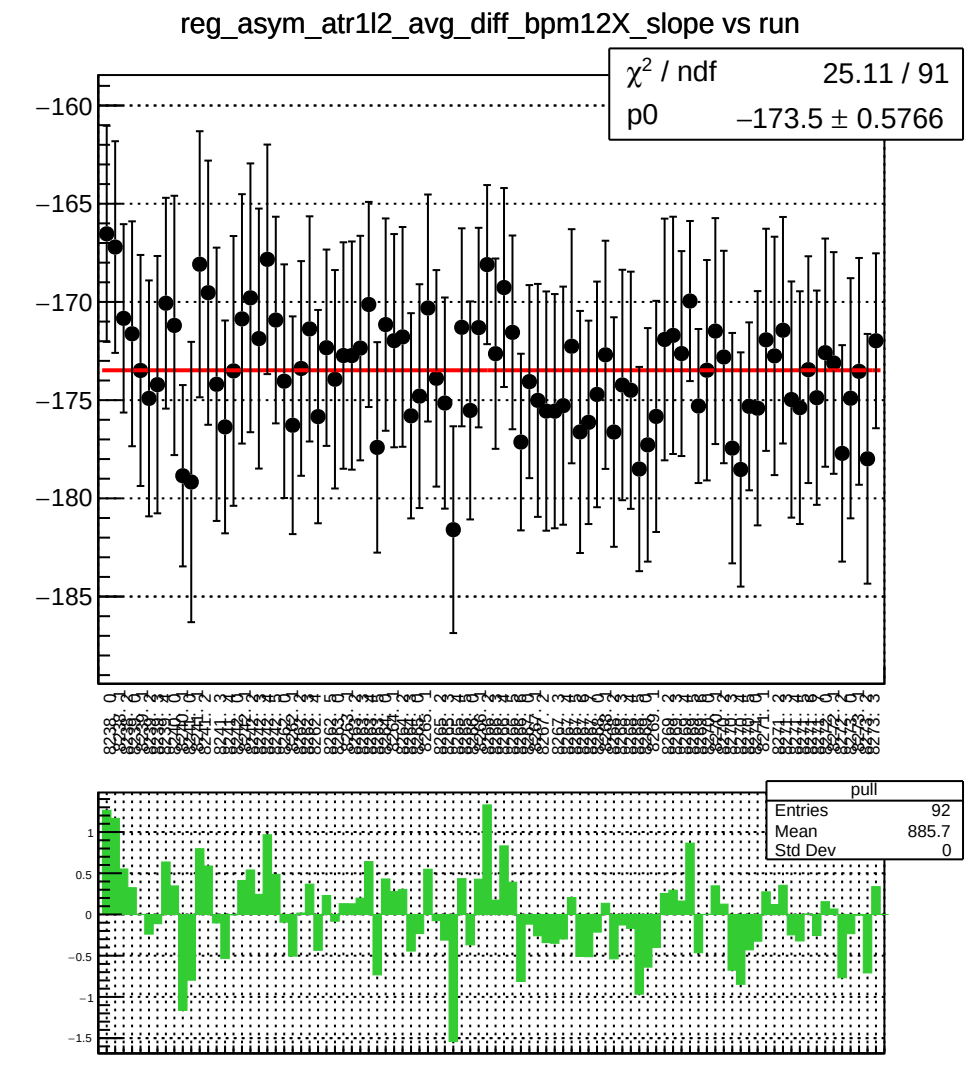

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.056 / 91
p0 44.37 ± 10.24
pull
Entries 92
Mean −920.6
Std Dev 0

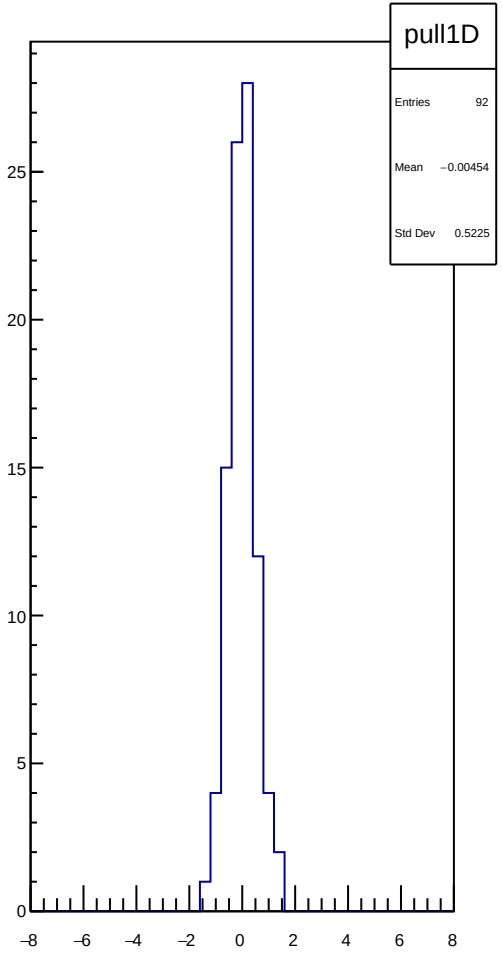

pull1D
Entries 92
Mean 0.001579
Std Dev 0.3137

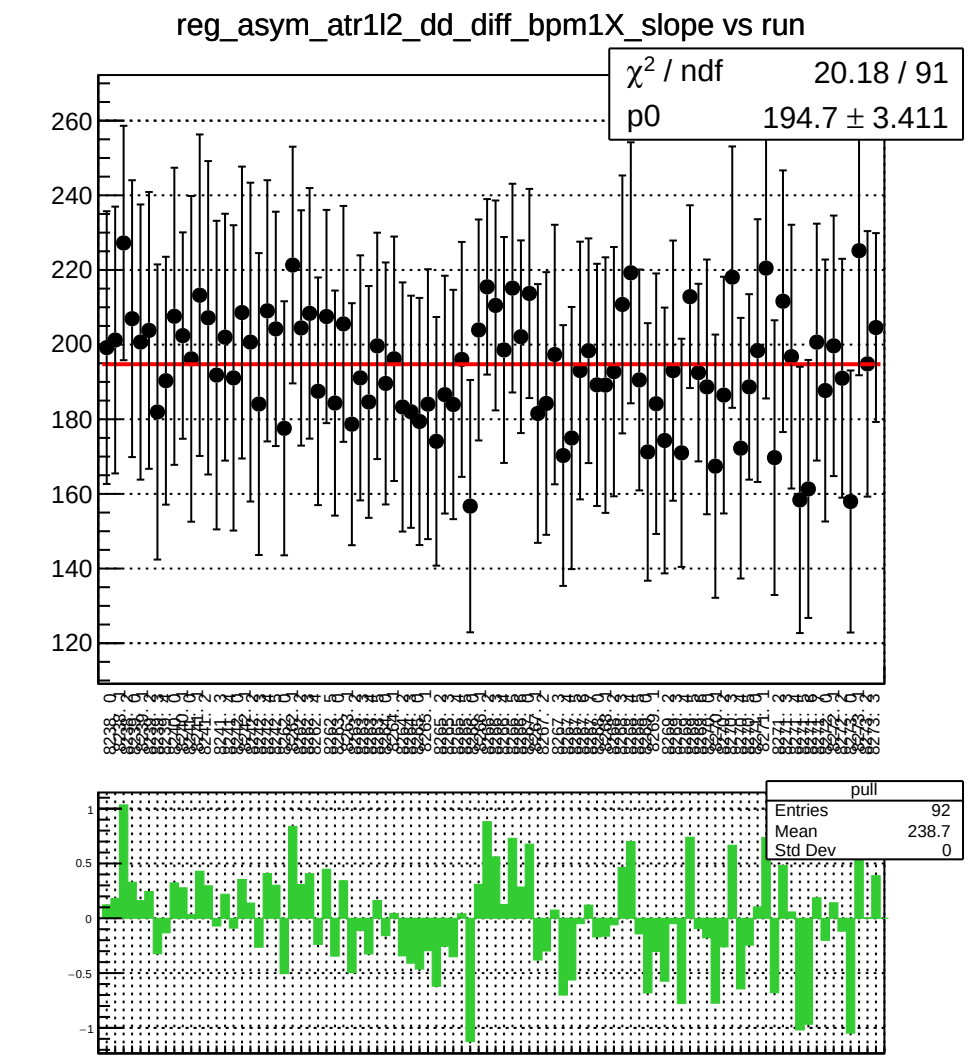

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.46 / 91
p0 226.8 ± 5.477
pull
Entries 92
Mean −72.31
Std Dev 0
pull1D
Entries 92
Mean −0.0248
Std Dev 0.4473

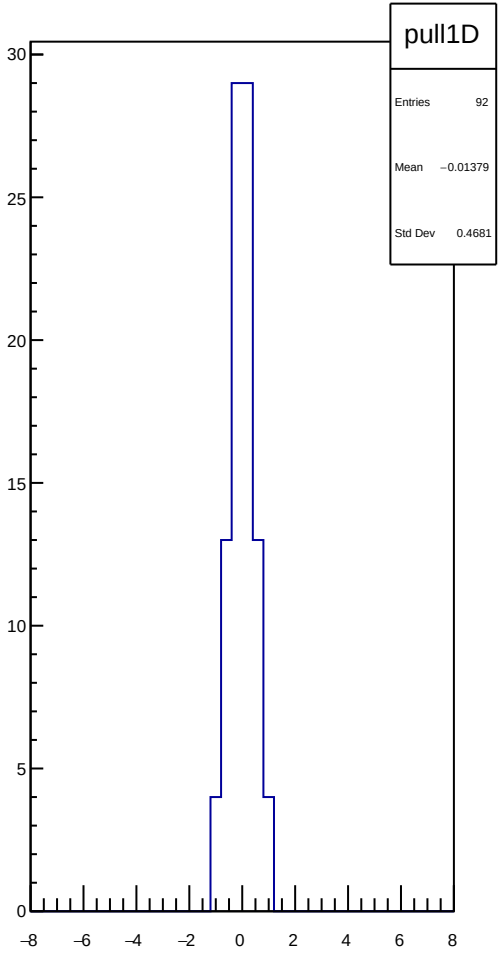

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.054 / 91
p0 23.23 ± 10.66
pull
Entries 92
Mean −2087
Std Dev 0

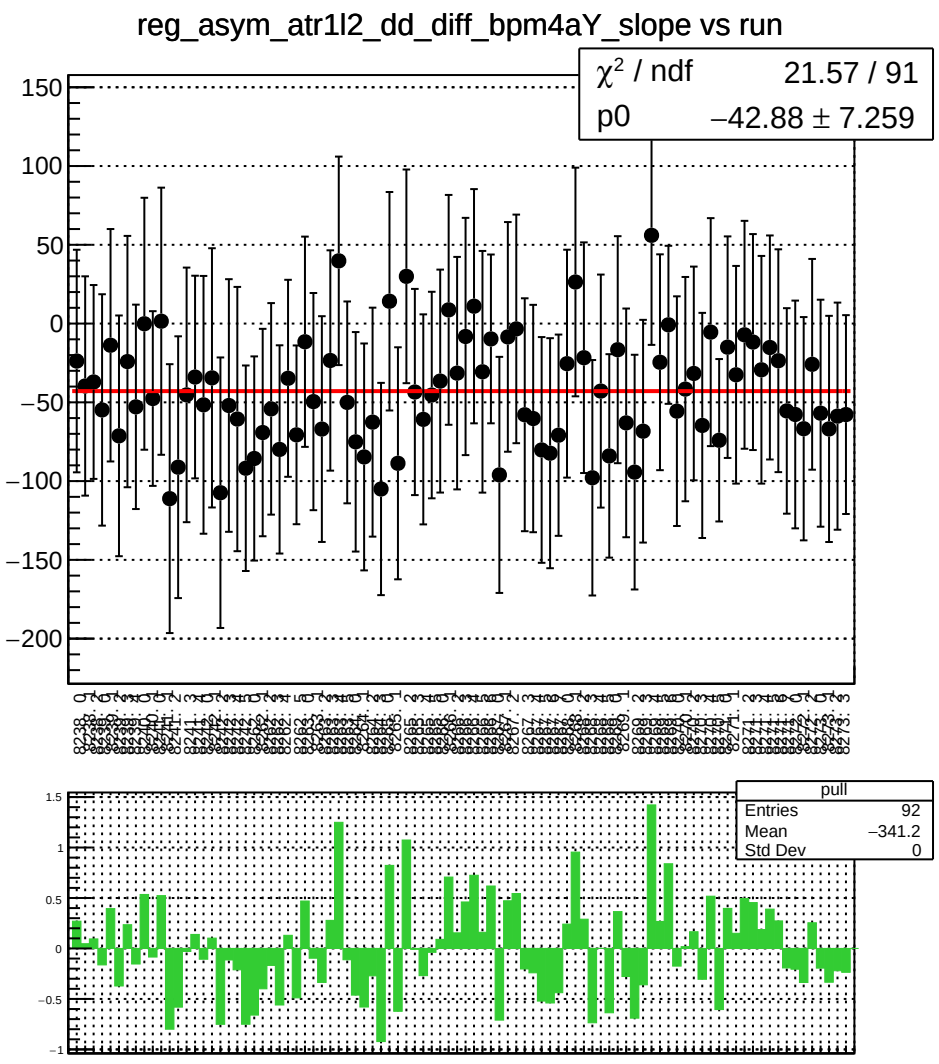

pull1D
Entries 92
Mean −0.0007768
Std Dev 0.3137

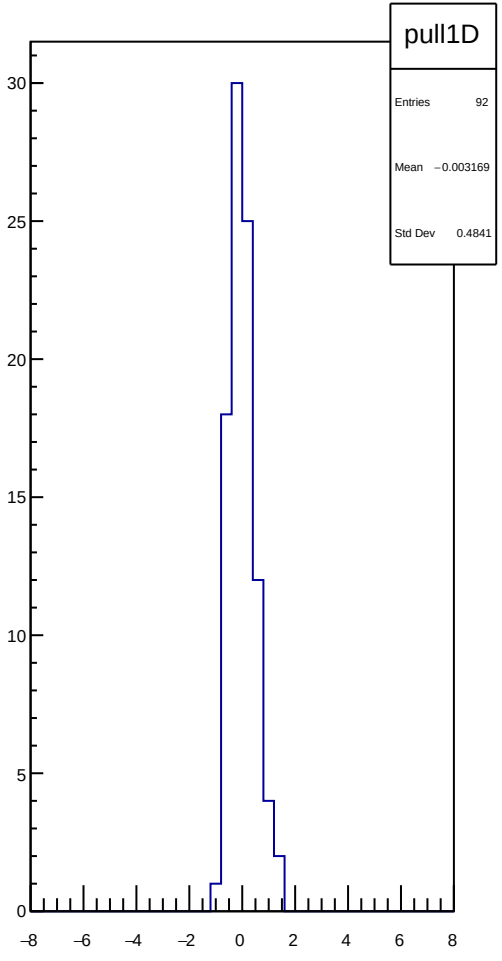

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 25.11 / 91
p0 −173.5 ± 0.5766
−160
−165
−170
−175
−180
−185
pull
Entries 92
Mean 885.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

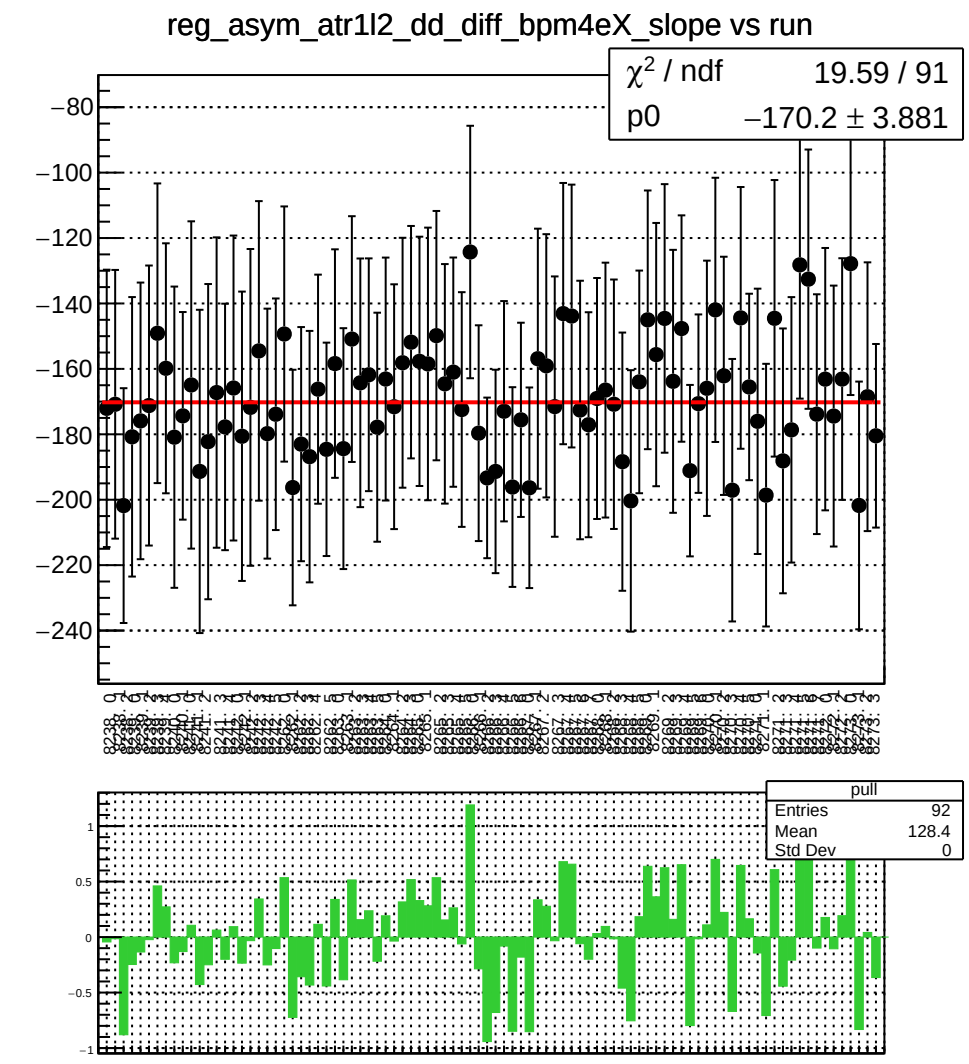

pull1D
Entries 92
Mean −0.00454
Std Dev 0.5225
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

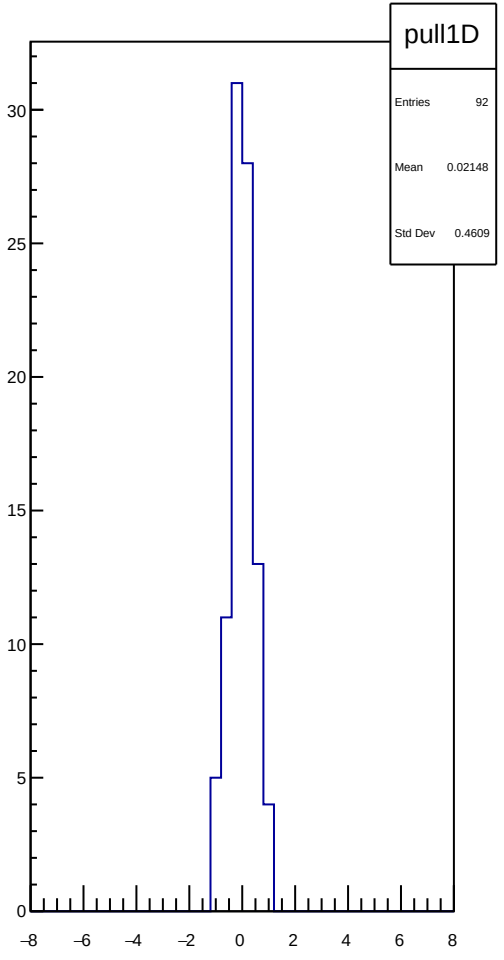

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 20.18 / 91
p0 194.7 ± 3.411
pull
Entries 92
Mean 238.7
Std Dev 0

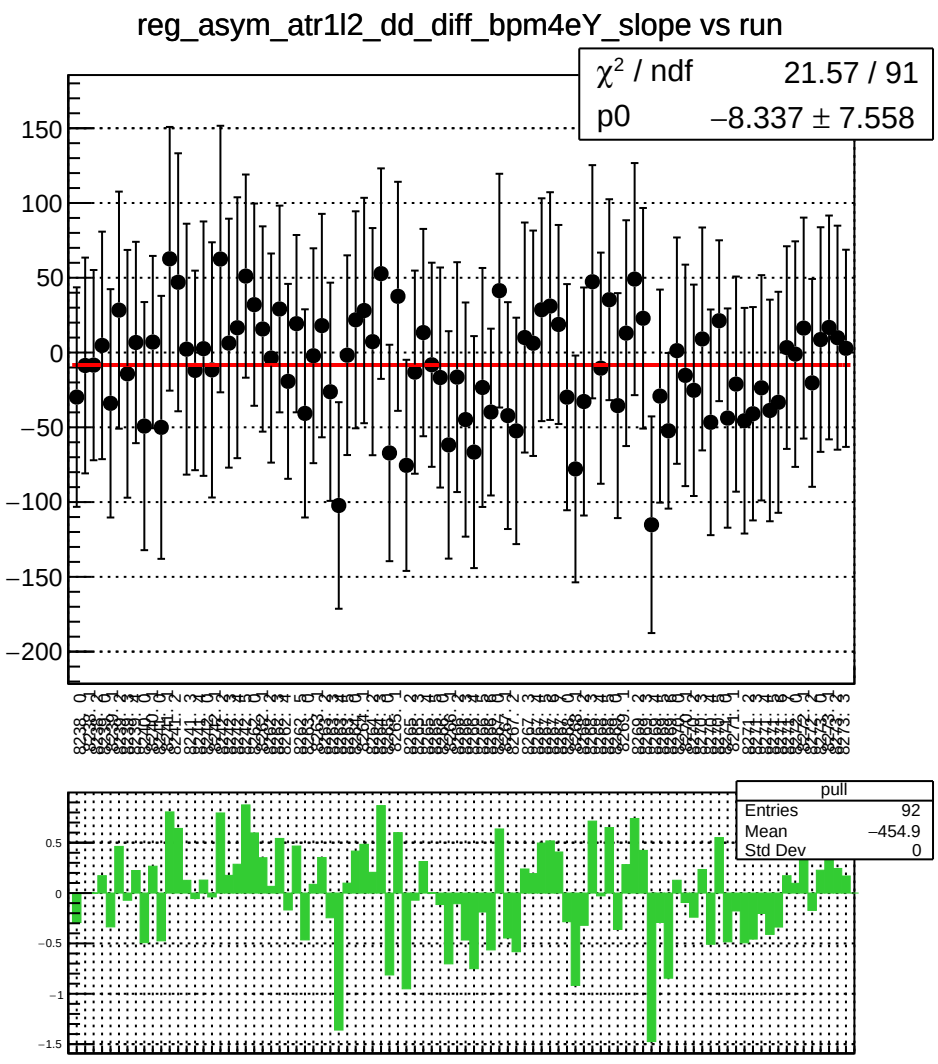

pull1D
Entries 92
Mean −0.01379
Std Dev 0.4681

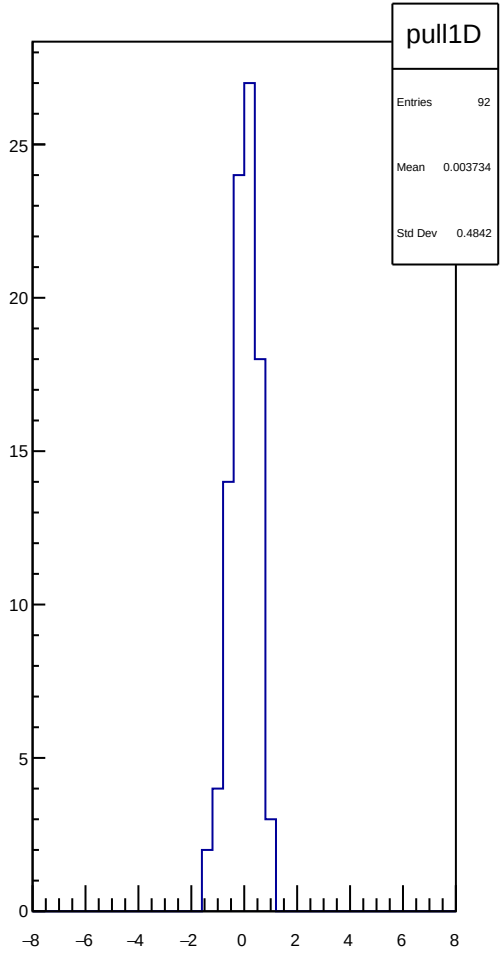

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.57 / 91
p0 −42.88 ± 7.259
pull
Entries 92
Mean −341.2
Std Dev 0

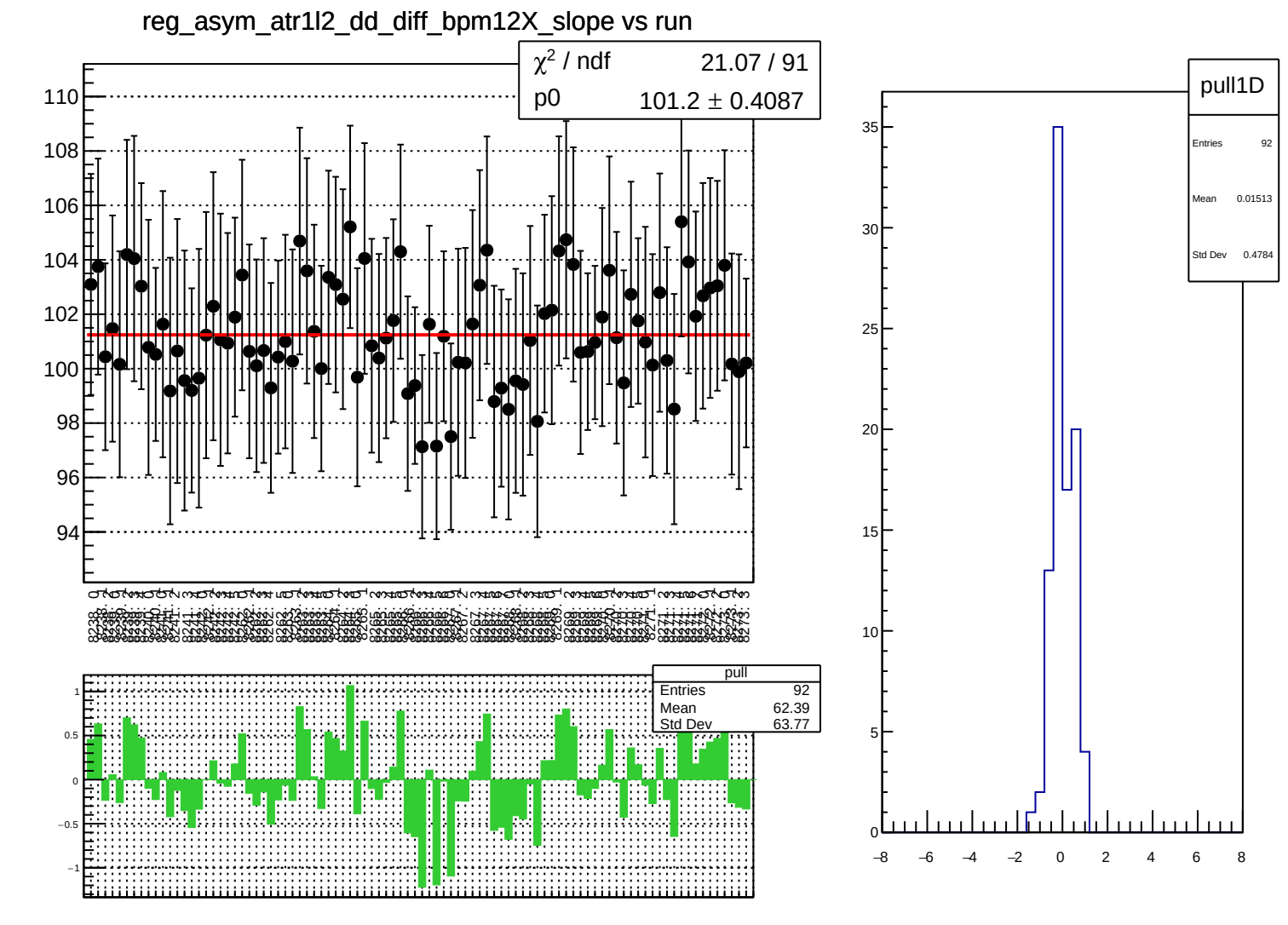

pull1D
Entries 92
Mean −0.003169
Std Dev 0.4841

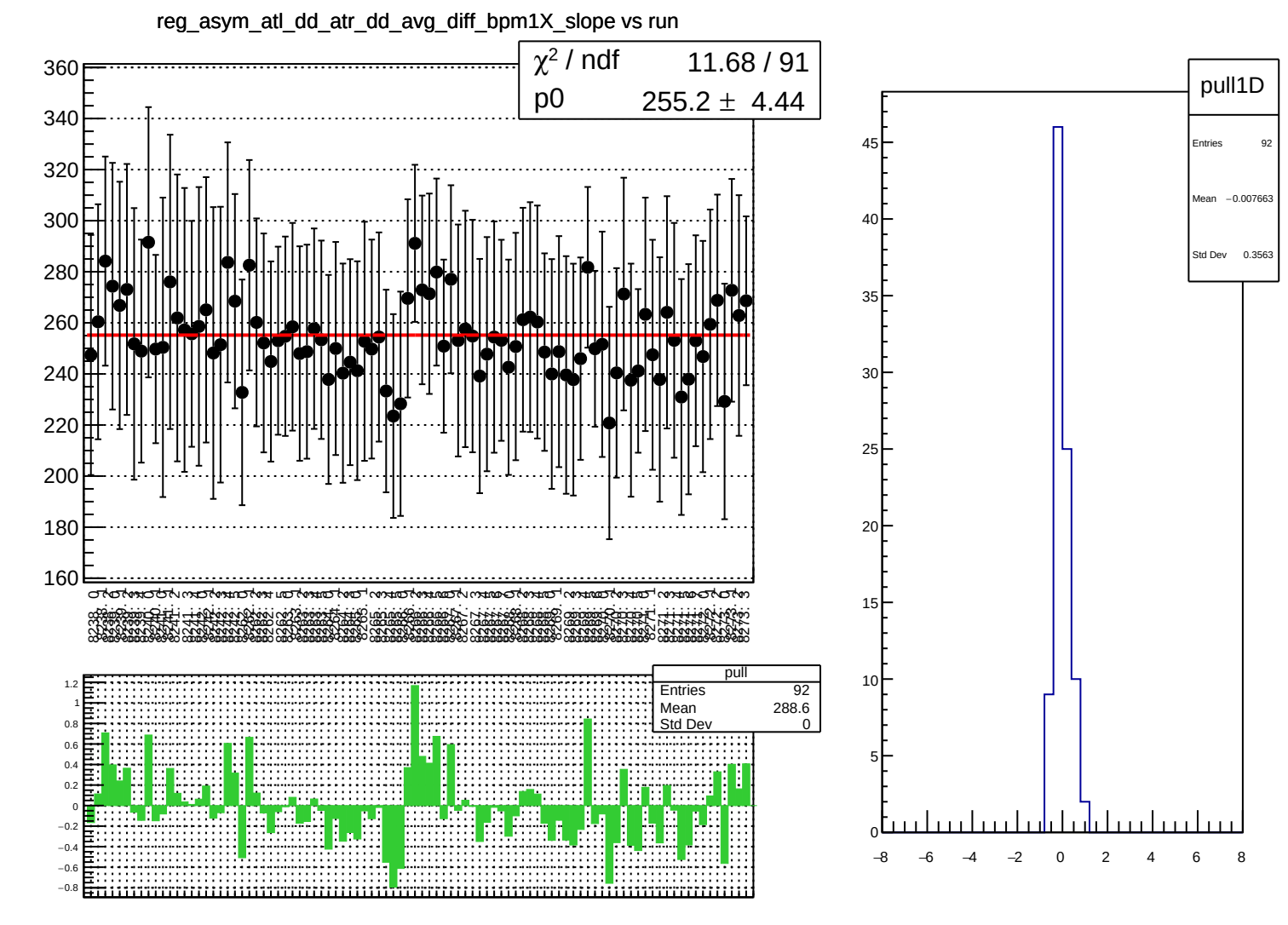

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.59 / 91
p0 −170.2 ± 3.881
pull
Entries 92
Mean 128.4
Std Dev 0

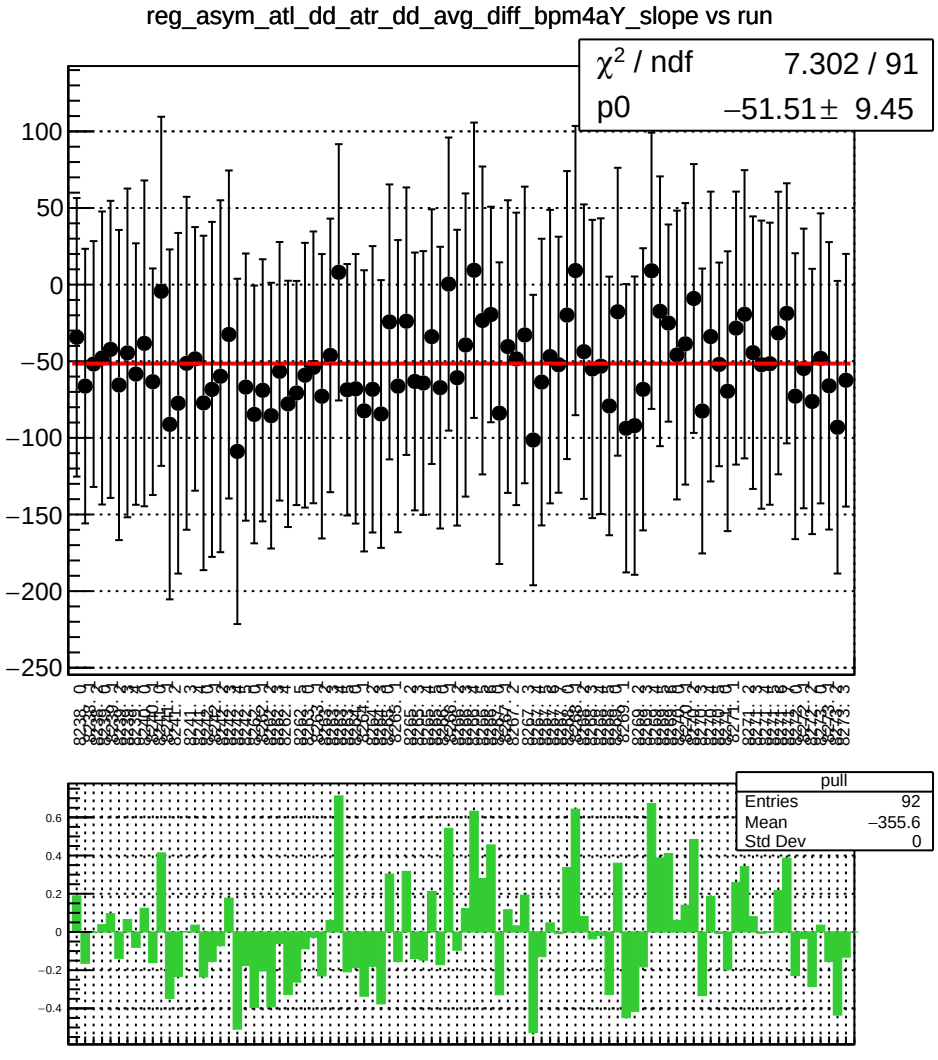

pull1D
Entries 92
Mean 0.02148
Std Dev 0.4609

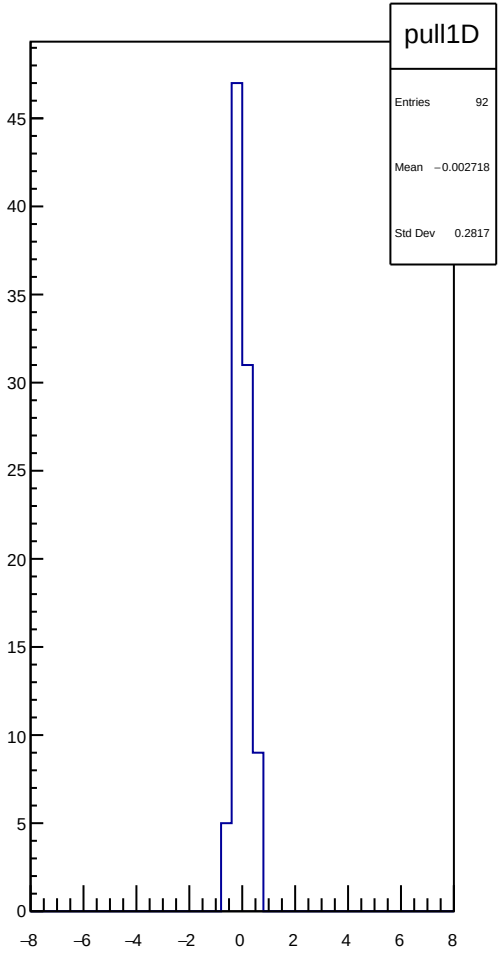

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.57 / 91
p0 −8.337 ± 7.558
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −454.9
Std Dev 0
0.5
0
−0.5
−1
−1.5

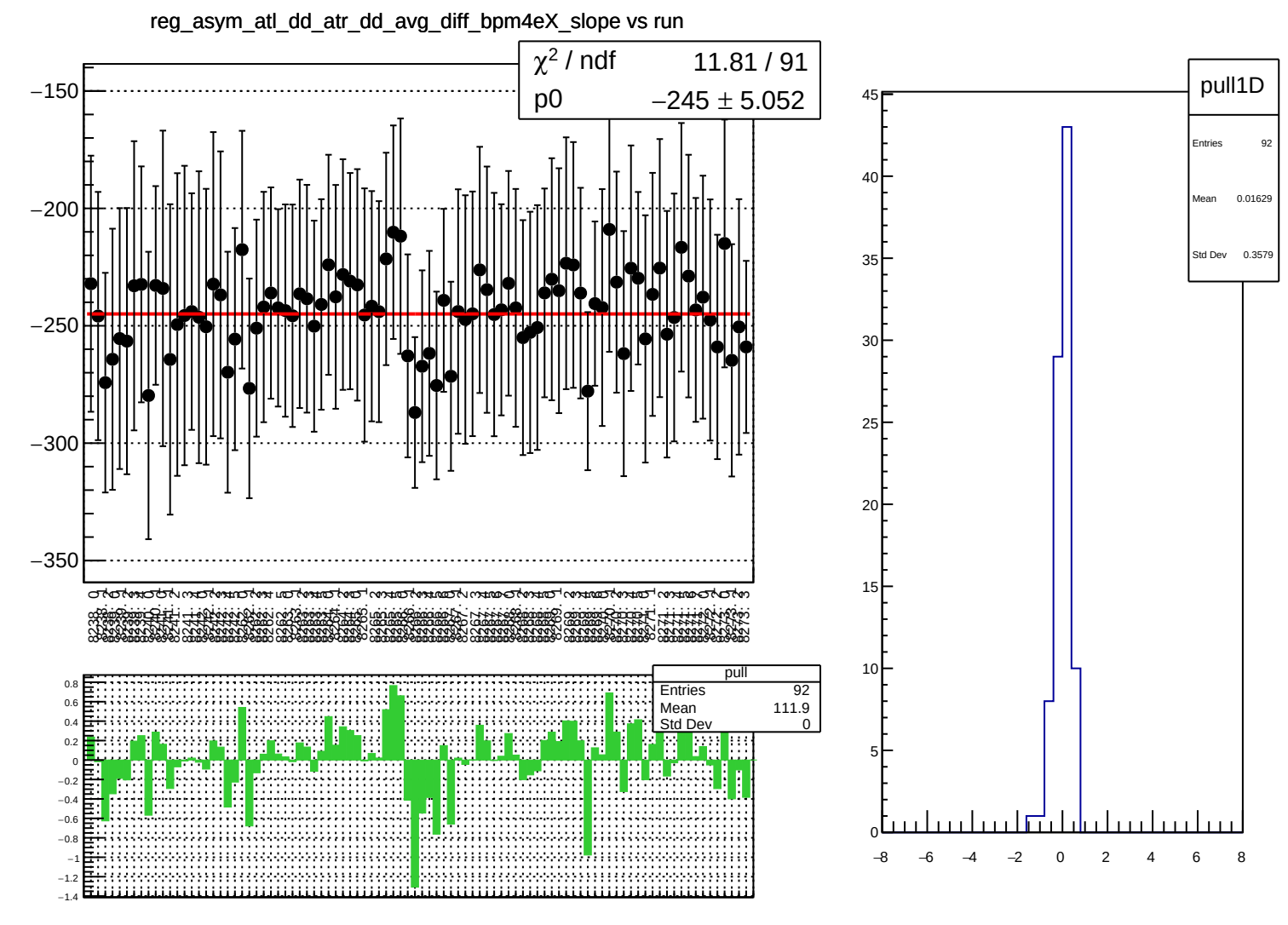

pull1D
Entries 92
Mean 0.003734
Std Dev 0.4842
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

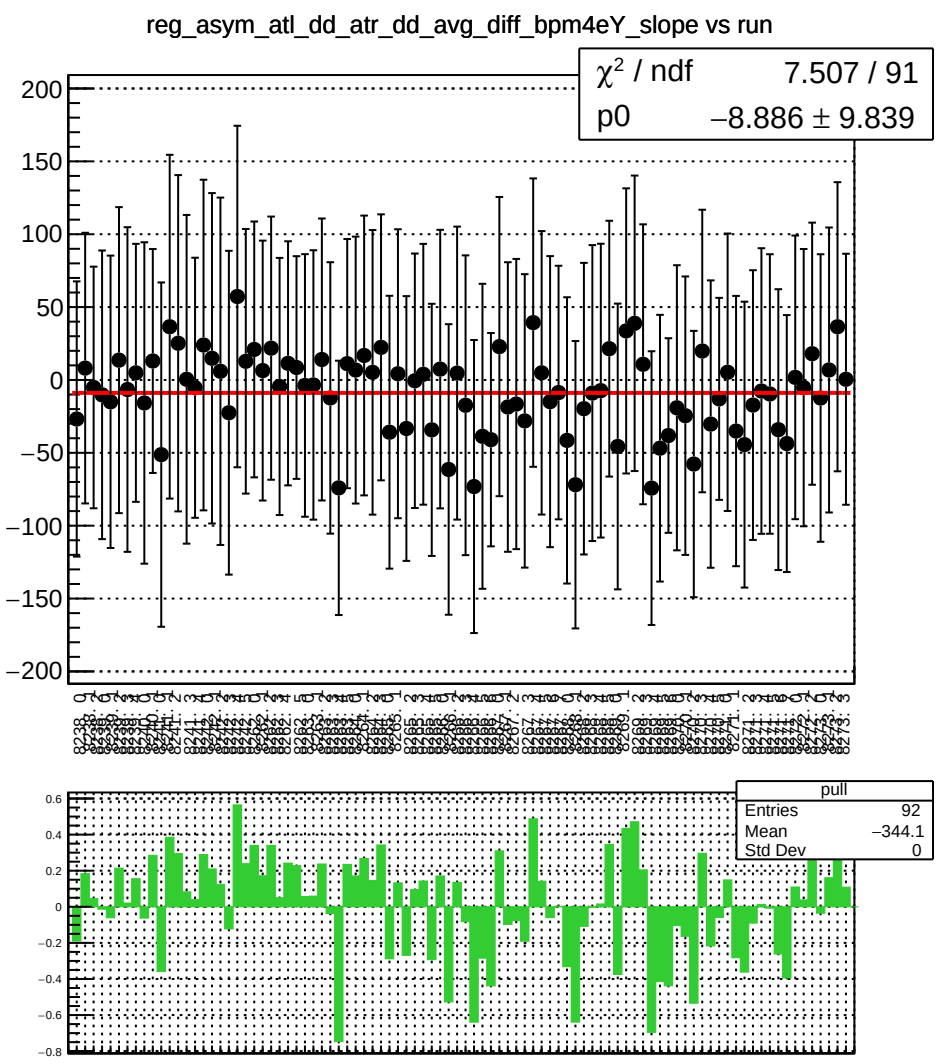

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 21.07 / 91
p0 101.2 ± 0.4087
pull
Entries 92
Mean 62.39
Std Dev 63.77
pull1D
Entries 92
Mean 0.01513
Std Dev 0.4784

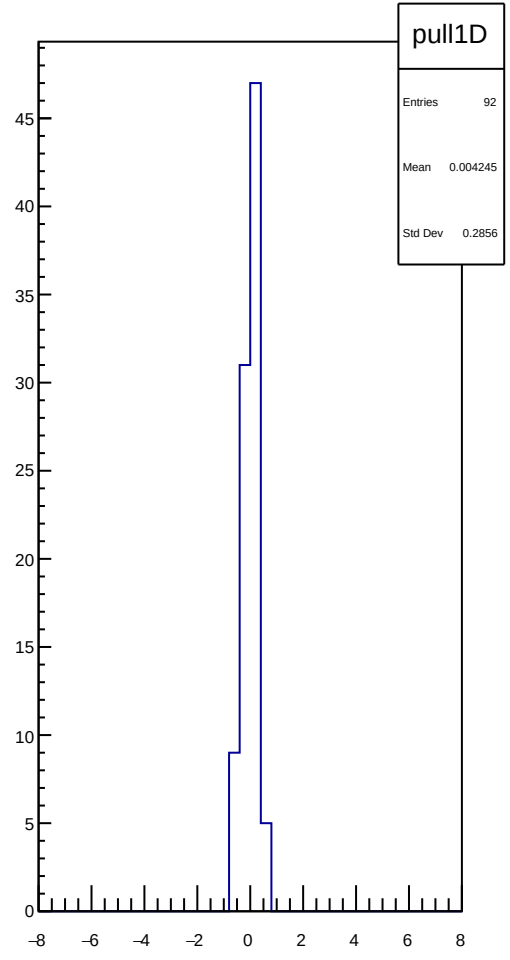

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 11.68 / 91
p0 255.2 ± 4.44
pull
Entries 92
Mean 288.6
Std Dev 0
pull1D
Entries 92
Mean −0.007663
Std Dev 0.3563

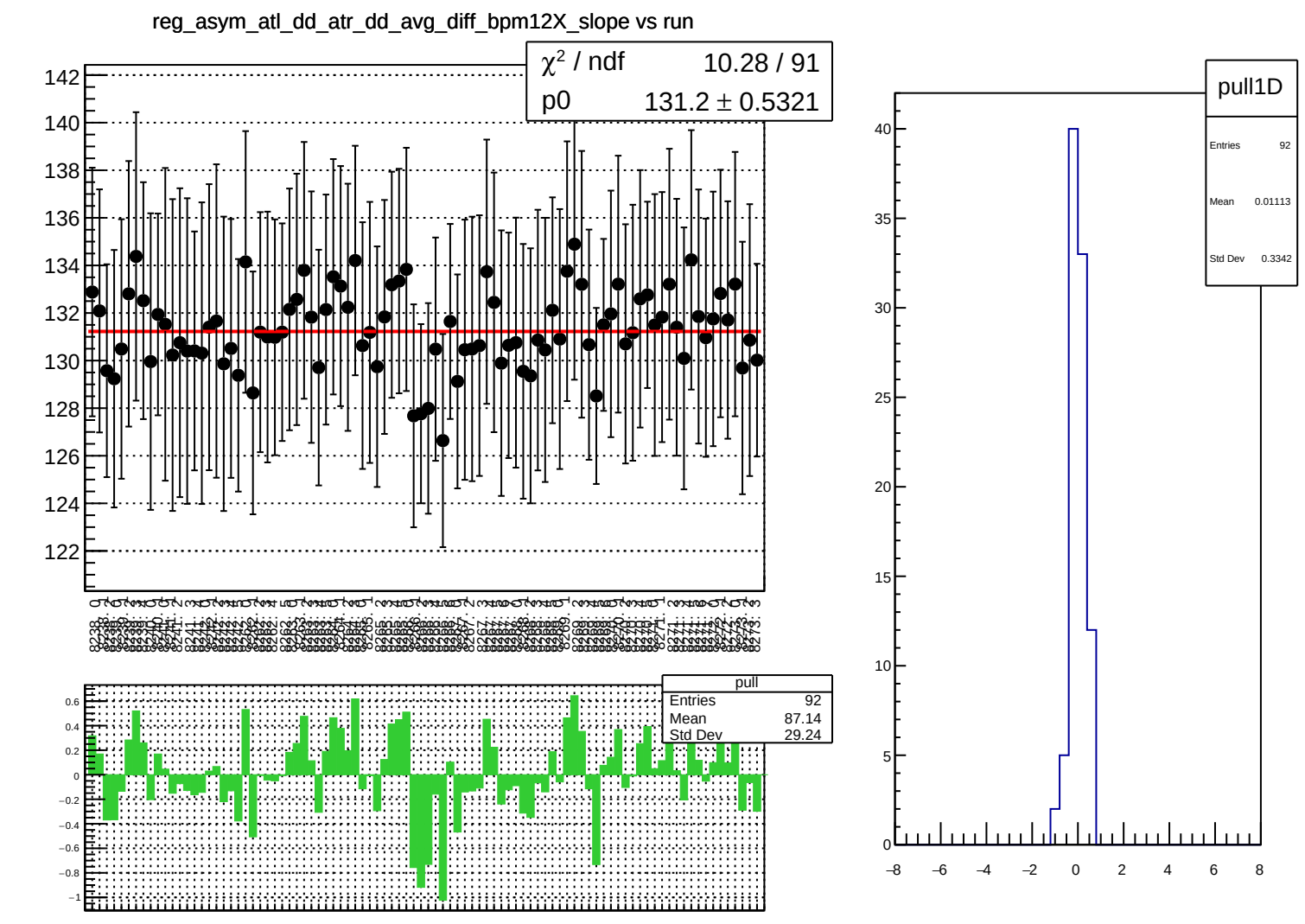

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.302 / 91
p0 −51.51 ± 9.45
pull
Entries 92
Mean −355.6
Std Dev 0

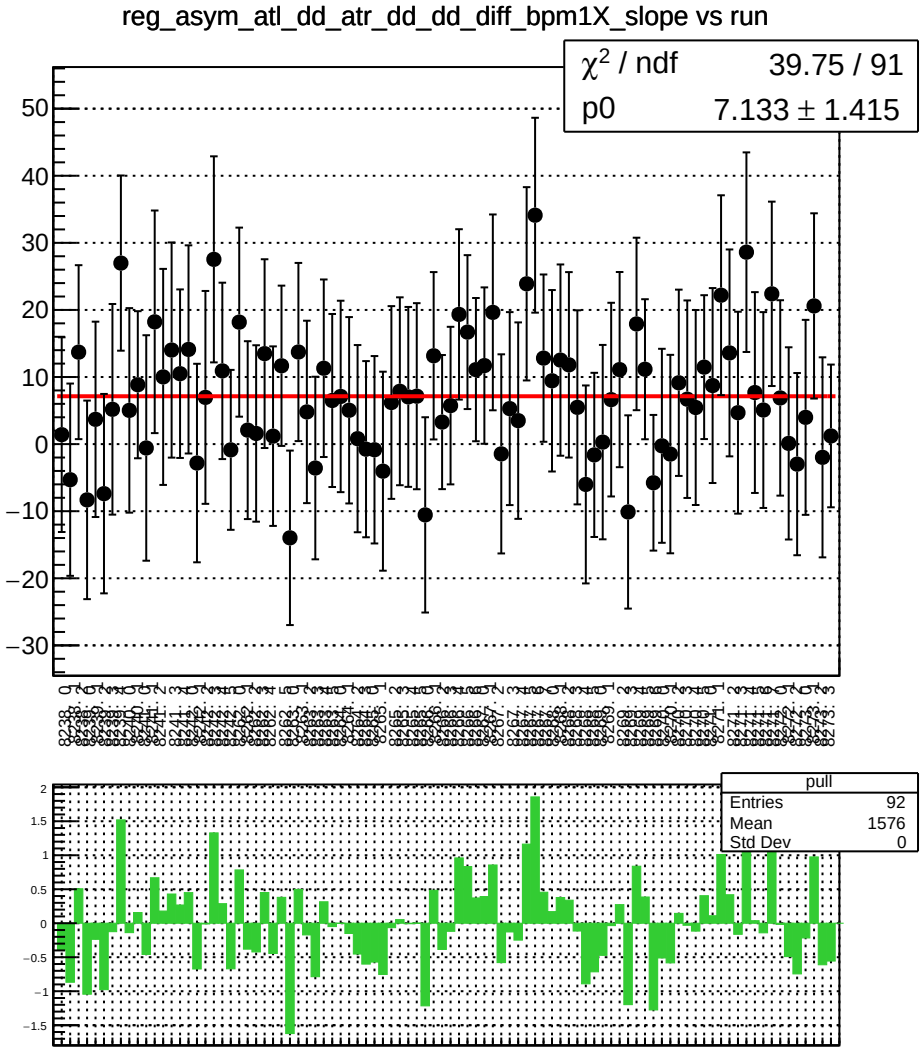

pull1D
Entries 92
Mean −0.002718
Std Dev 0.2817

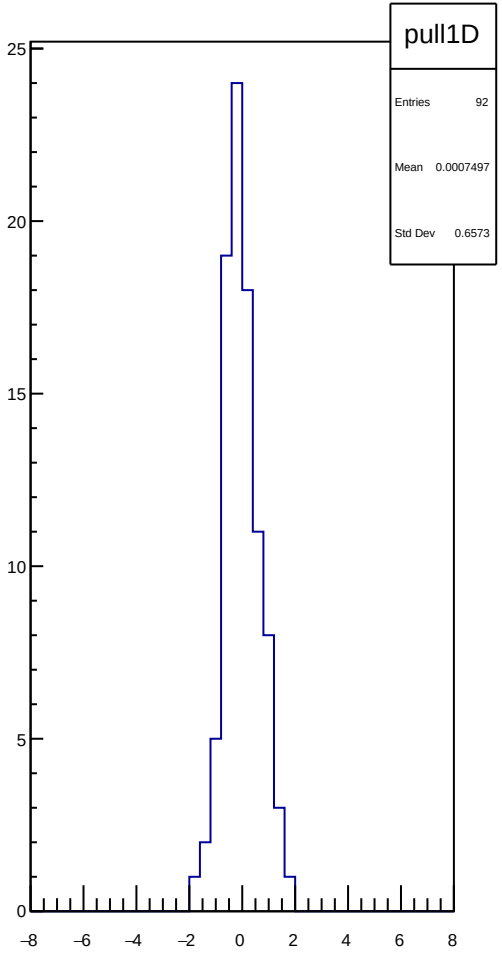

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.81 / 91
p0 −245 ± 5.052
−150
−200
−250
−300
−350
pull
Entries 92
Mean 111.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull1D
Entries 92
Mean 0.01629
Std Dev 0.3579
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

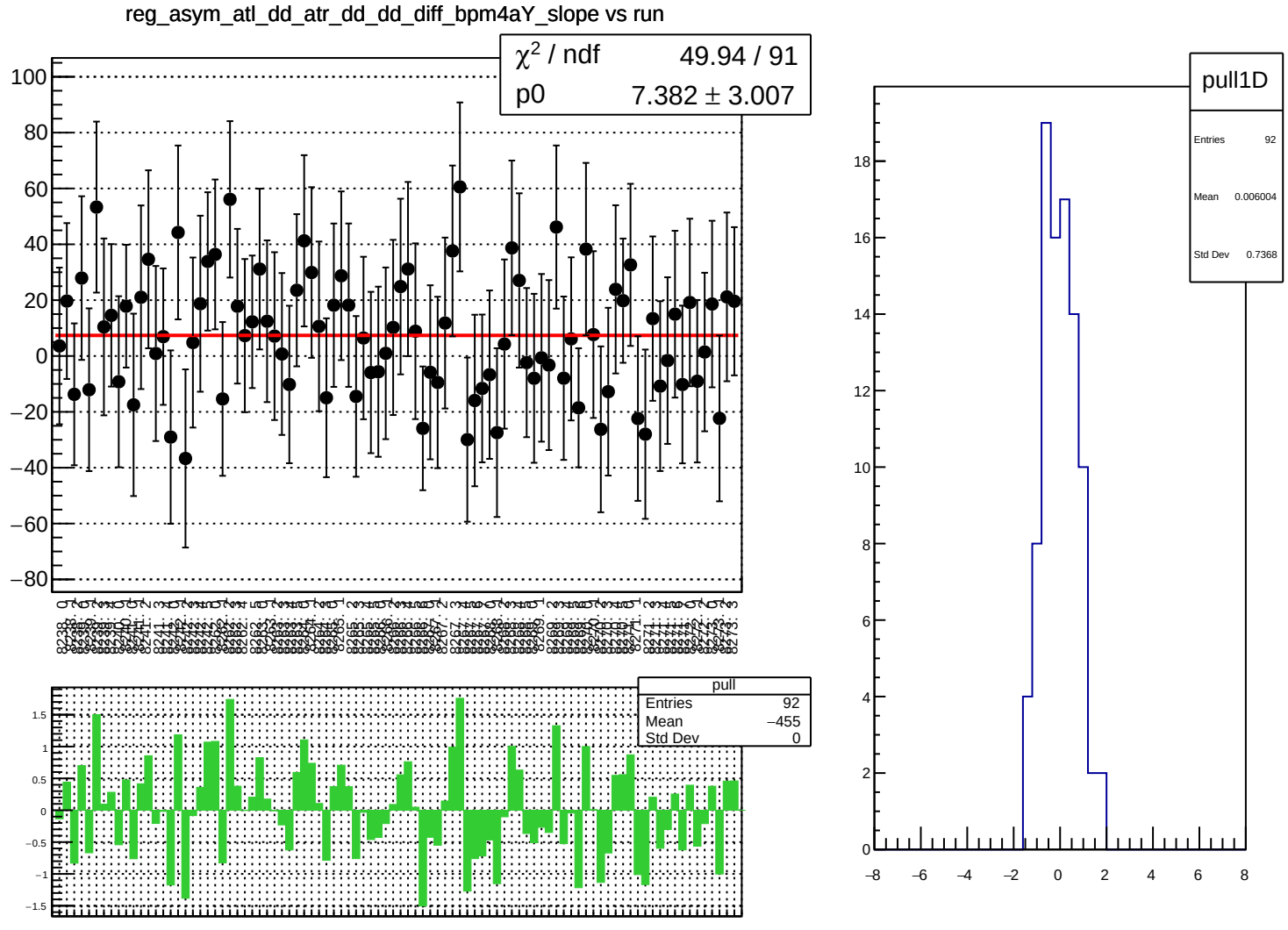

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.507 / 91
p0 −8.886 ± 9.839
pull
Entries 92
Mean −344.1
Std Dev 0

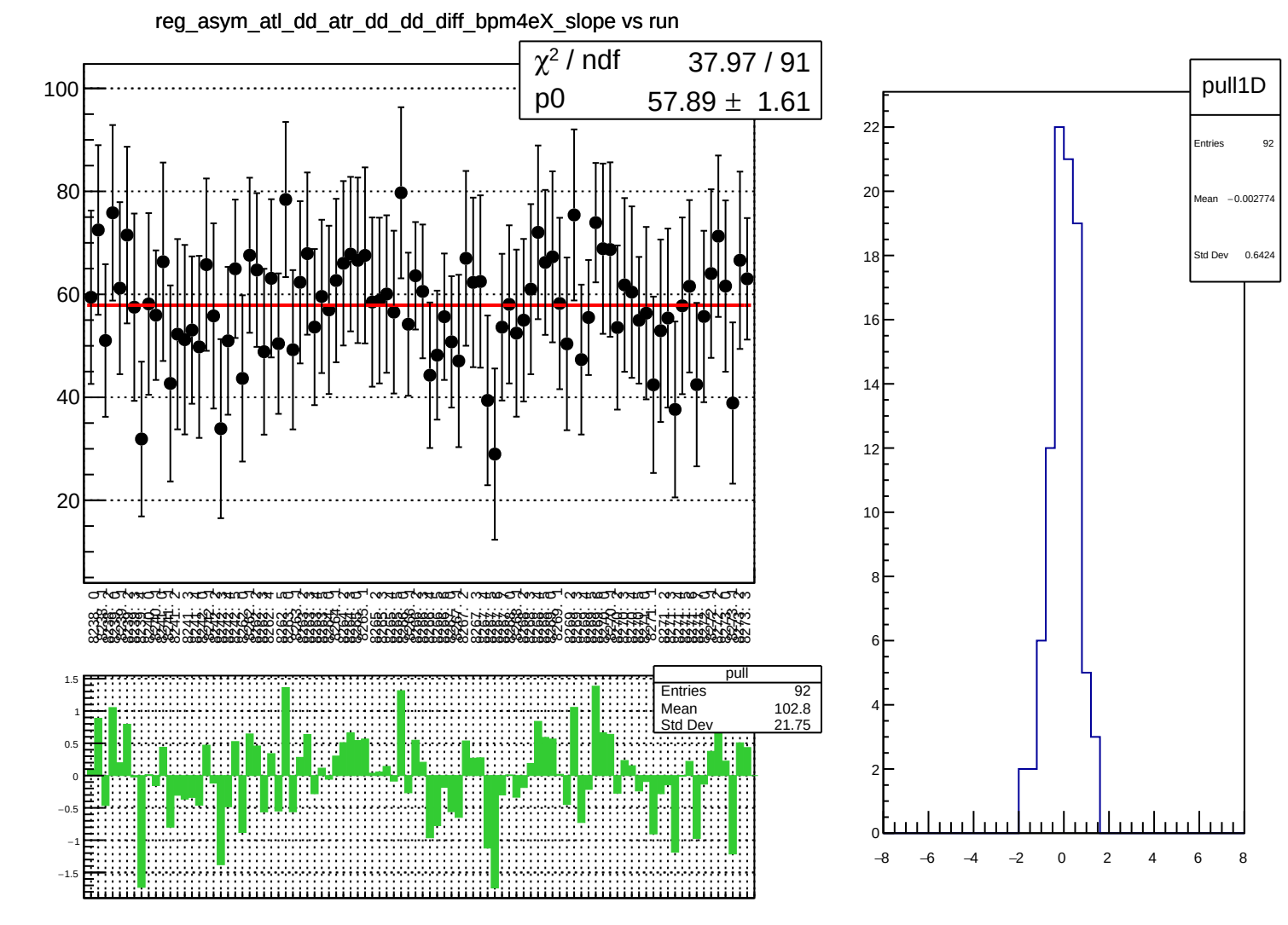

pull1D
Entries 92
Mean 0.004245
Std Dev 0.2856

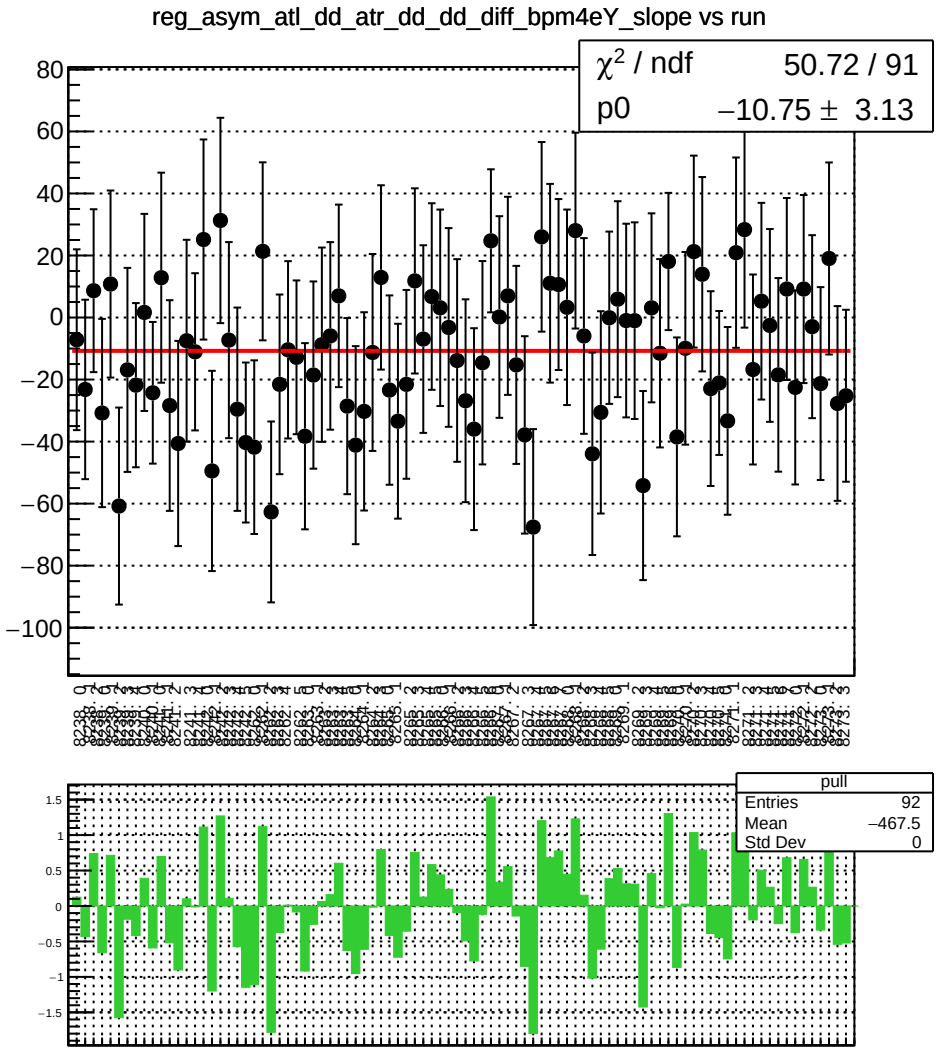

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 10.28 / 91
p0 131.2 ± 0.5321
142
140
138
136
134
132
130
128
126
124
122
pull
Entries 92
Mean 87.14
Std Dev 29.24
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 92
Mean 0.01113
Std Dev 0.3342
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

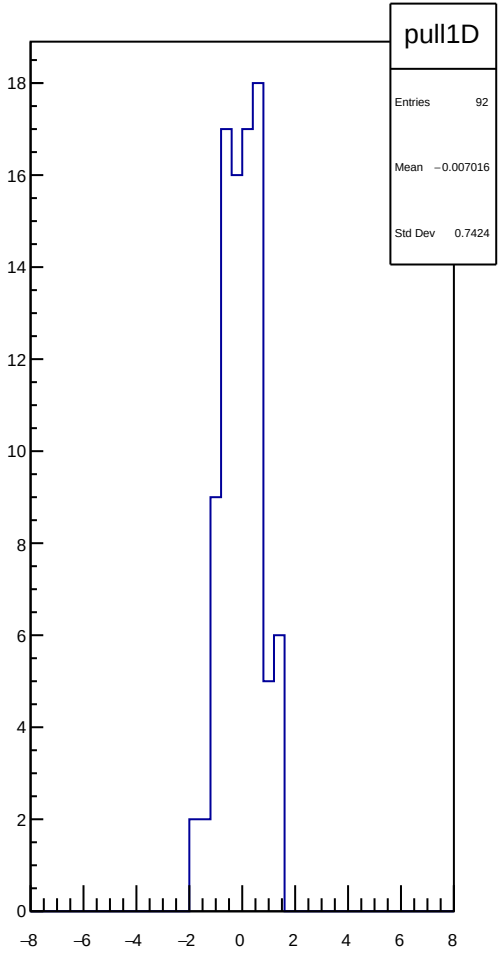

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 39.75 / 91
p0 7.133 ± 1.415
pull
Entries 92
Mean 1576
Std Dev 0

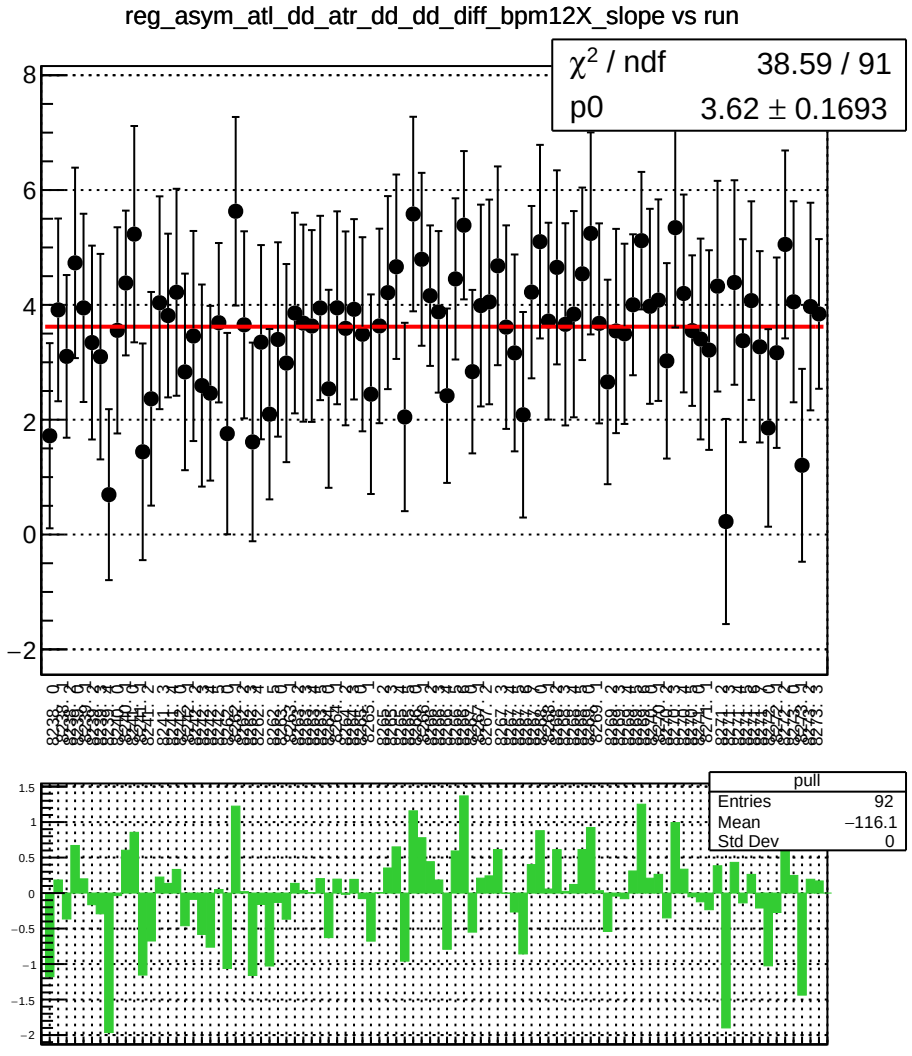

pull1D
Entries 92
Mean 0.0007497
Std Dev 0.6573

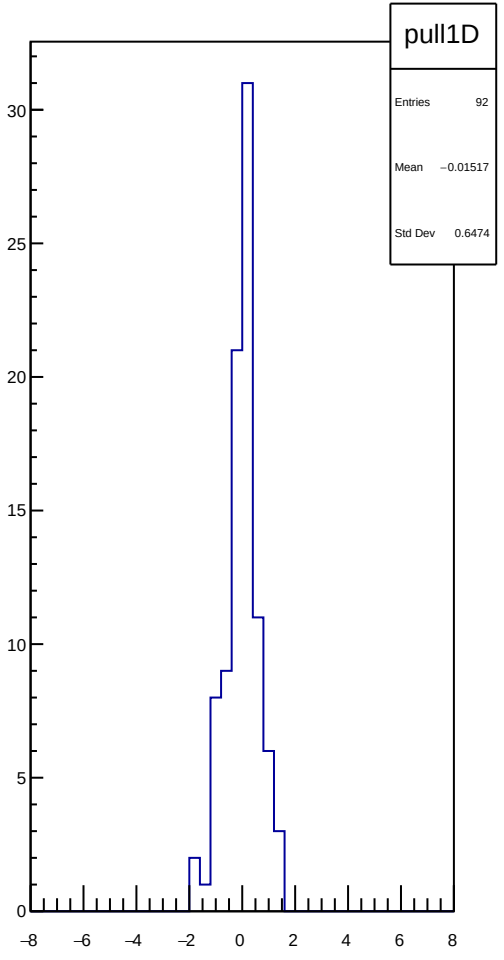

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.94 / 91
p0 7.382 ± 3.007
pull
Entries 92
Mean −455
Std Dev 0
pull1D
Entries 92
Mean 0.006004
Std Dev 0.7368

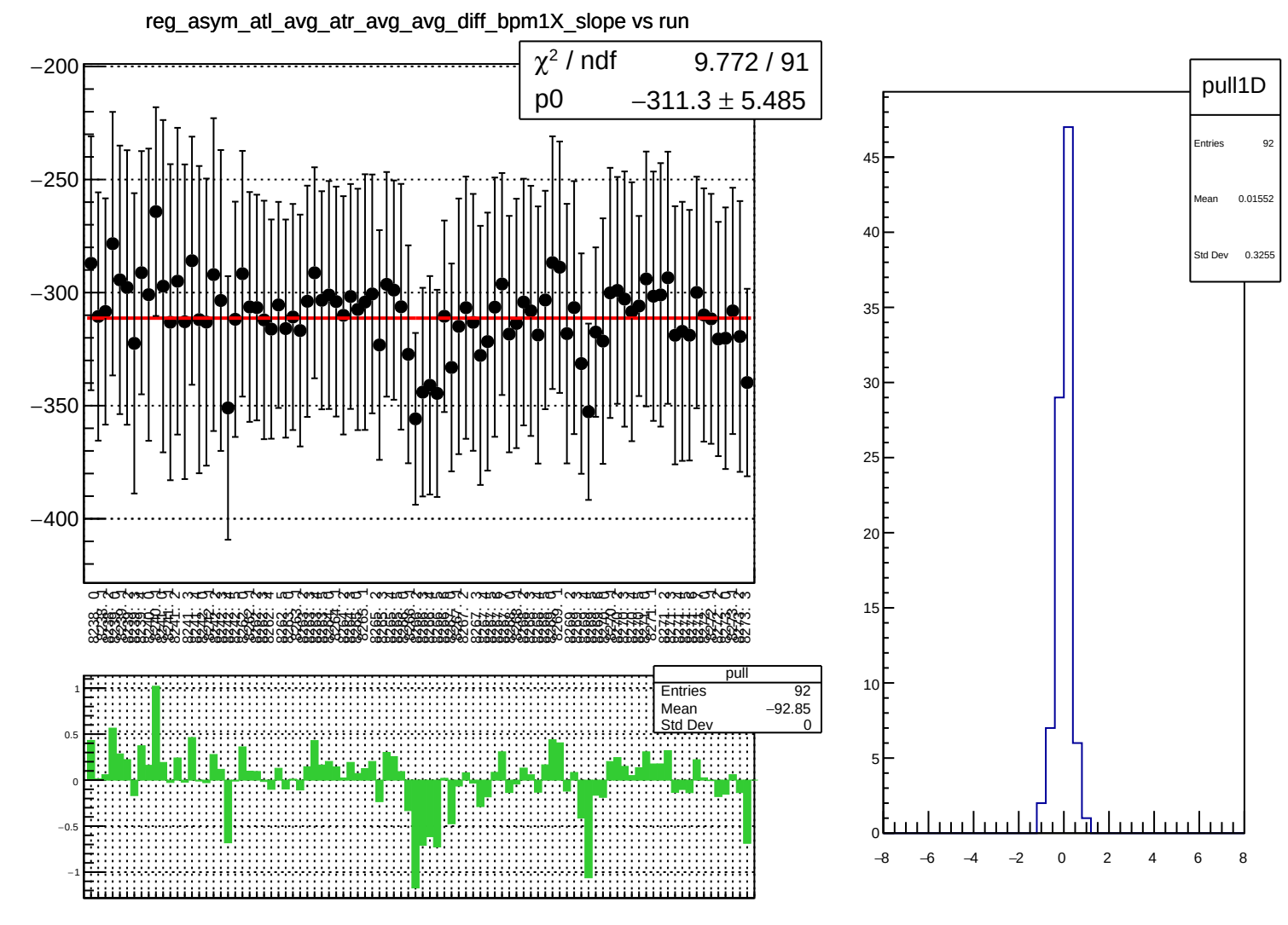

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.97 / 91
p0 57.89 ± 1.61
pull
Entries 92
Mean 102.8
Std Dev 21.75
pull1D
Entries 92
Mean −0.002774
Std Dev 0.6424

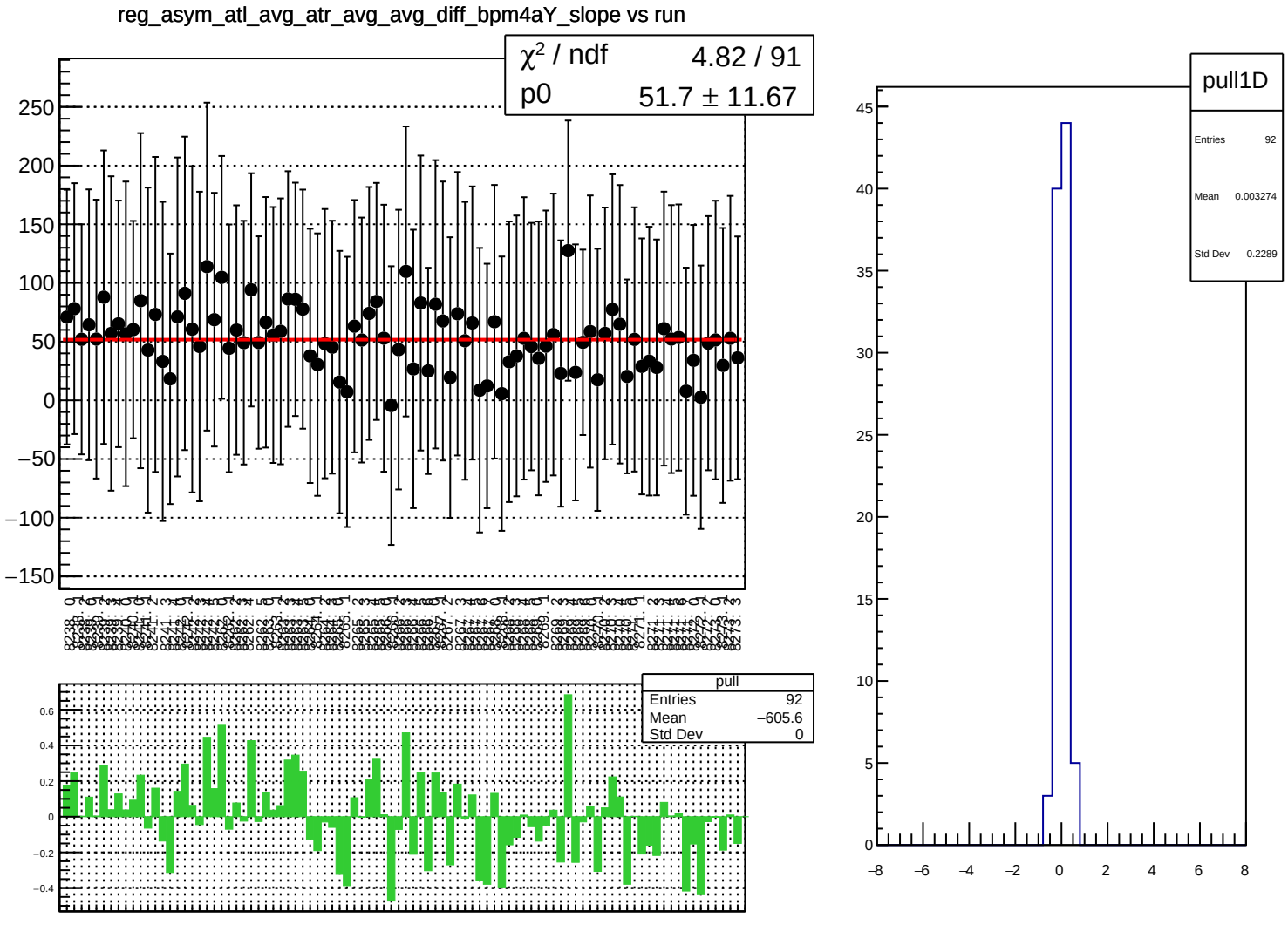

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.72 / 91
p0 −10.75 ± 3.13
pull
Entries 92
Mean −467.5
Std Dev 0

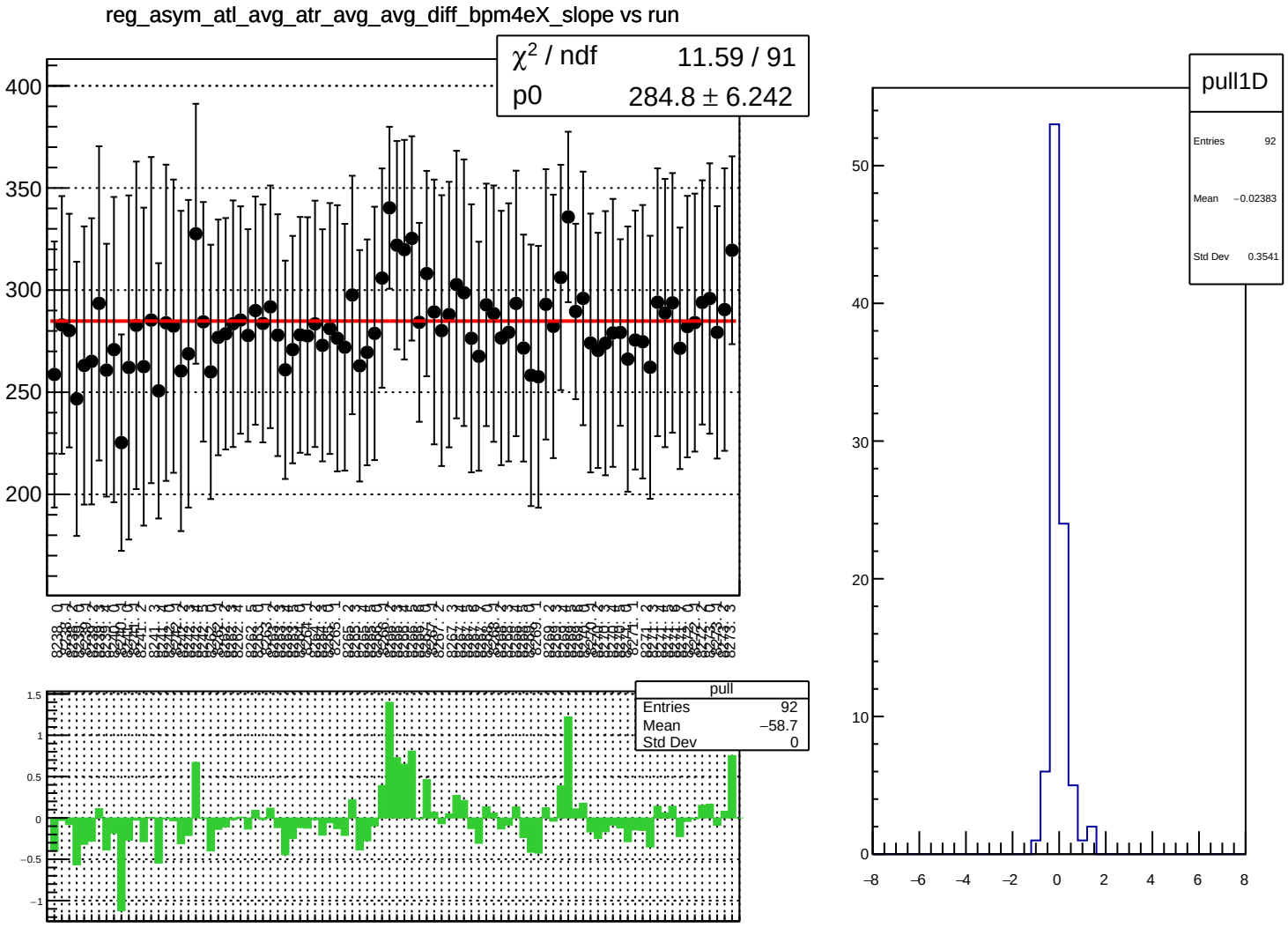

pull1D
Entries 92
Mean −0.007016
Std Dev 0.7424

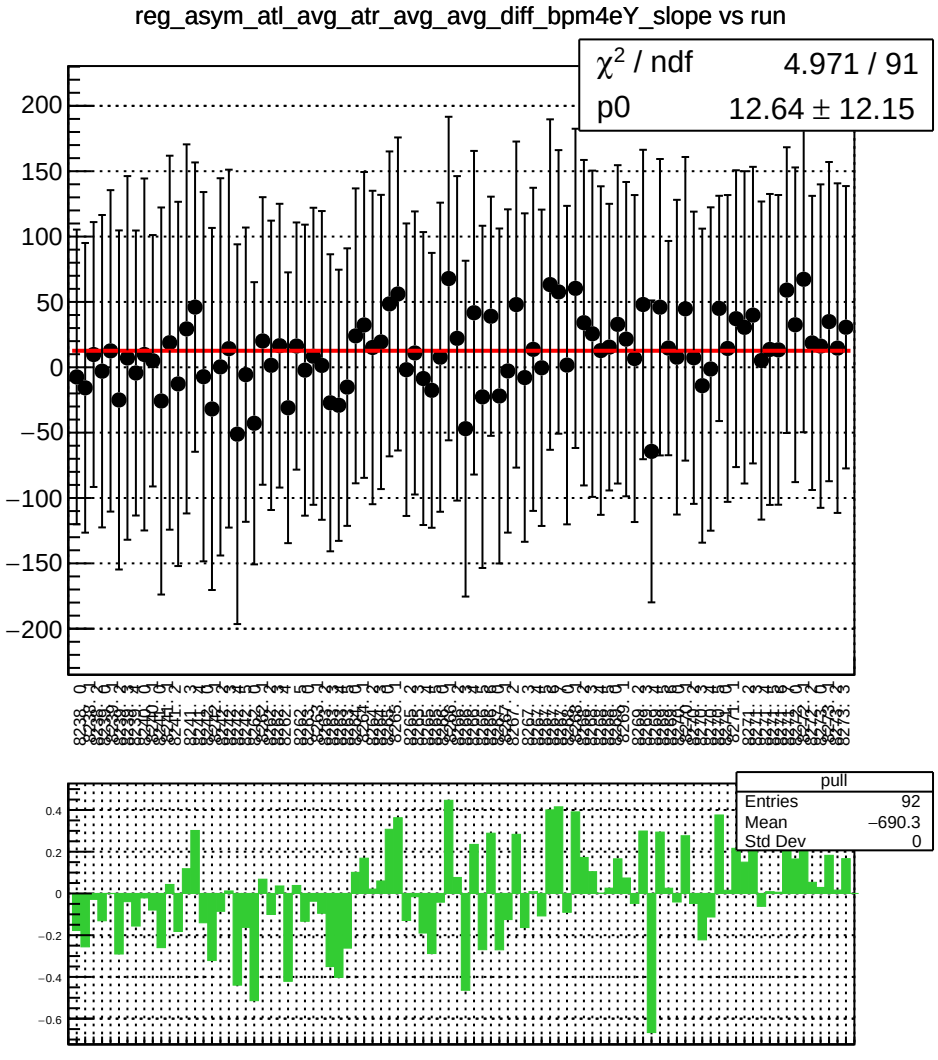

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 38.59 / 91
p0 3.62 ± 0.1693
pull
Entries 92
Mean −116.1
Std Dev 0

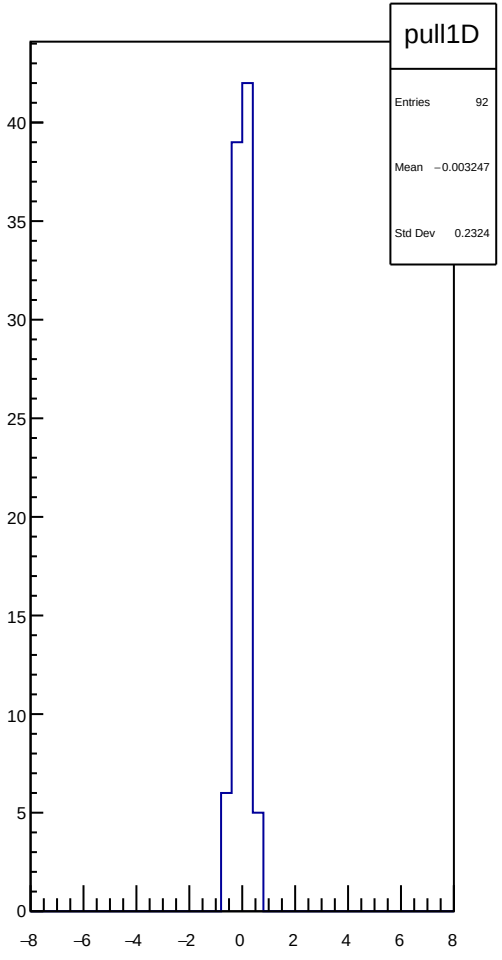

pull1D
Entries 92
Mean −0.01517
Std Dev 0.6474

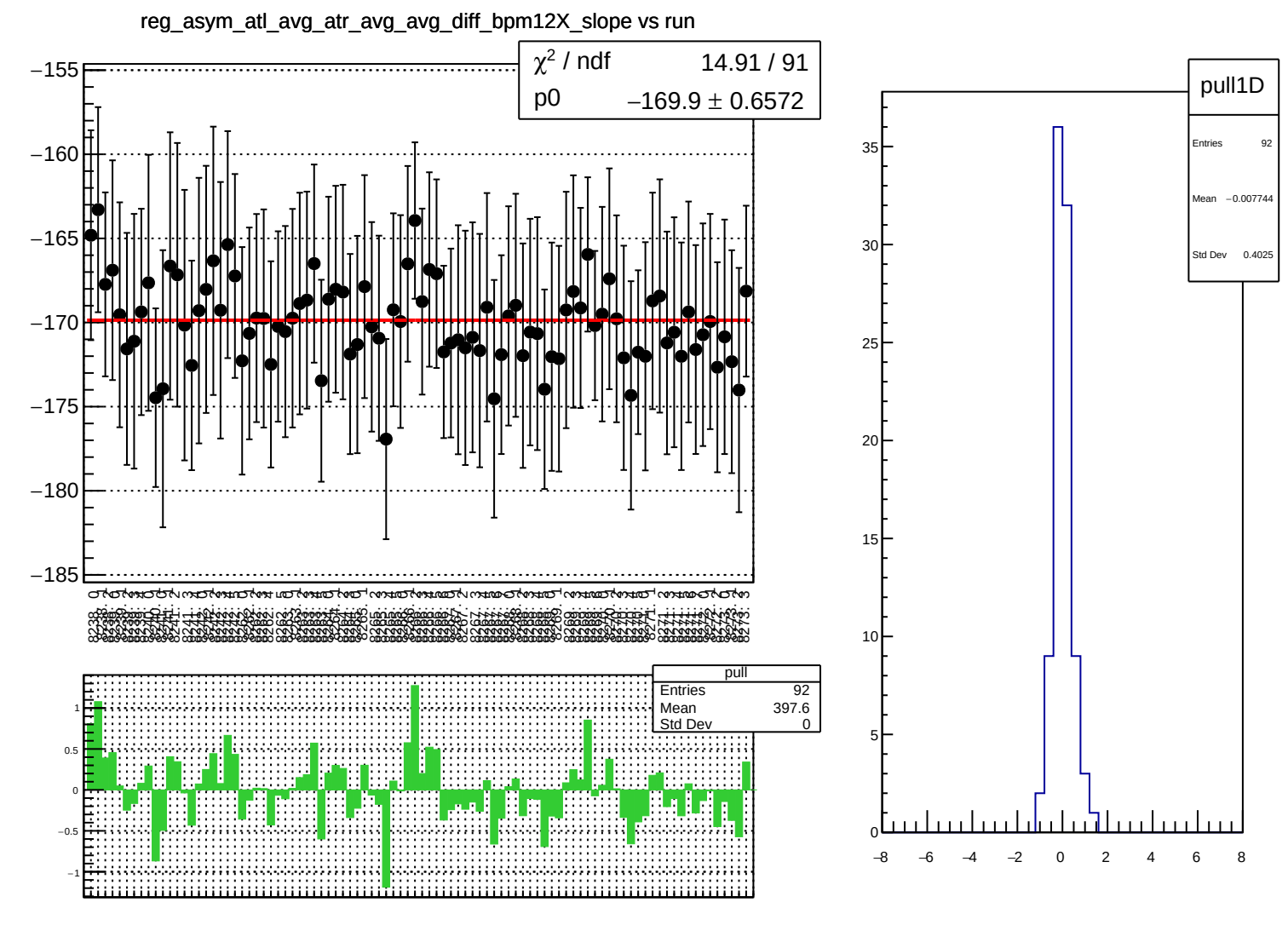

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 9.772 / 91
p0 −311.3 ± 5.485
−200
−250
−300
−350
−400
pull
Entries 92
Mean −92.85
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean 0.01552
Std Dev 0.3255
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

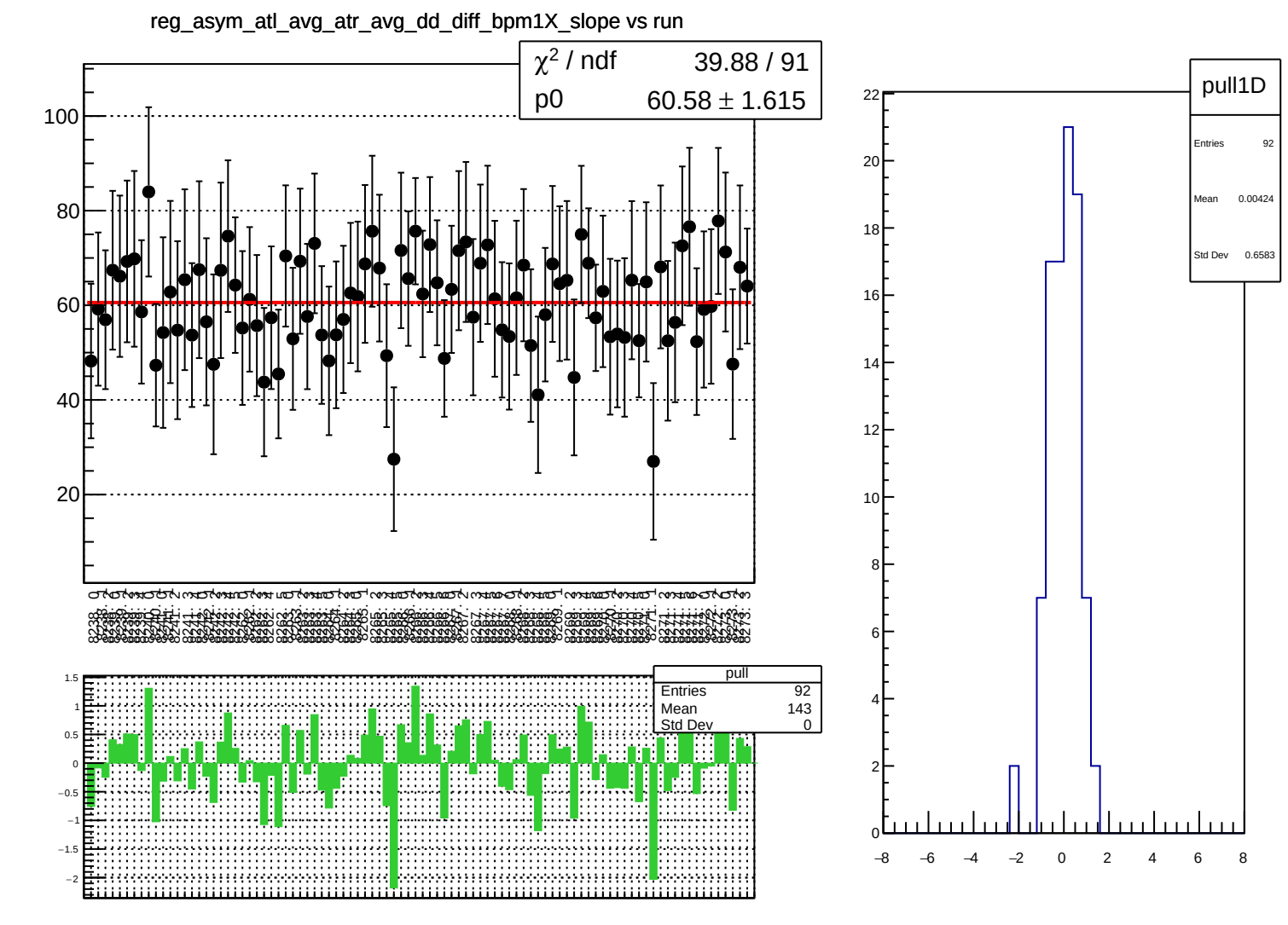

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.82 / 91
p0 51.7 ± 11.67
pull
Entries 92
Mean −605.6
Std Dev 0
pull1D
Entries 92
Mean 0.003274
Std Dev 0.2289

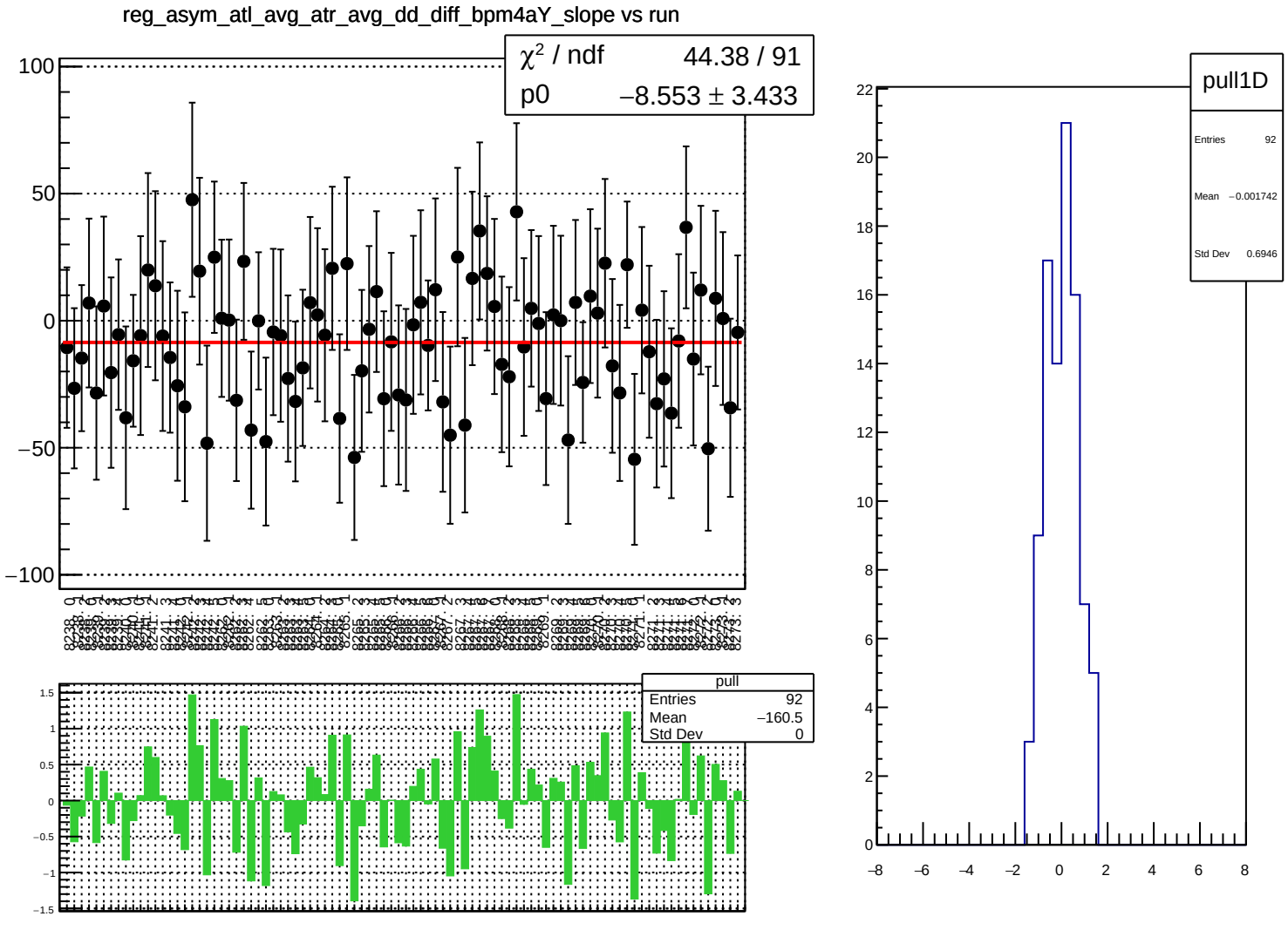

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.59 / 91
p0 284.8 ± 6.242
400
350
300
250
200
pull
Entries 92
Mean −58.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.02383
Std Dev 0.3541
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

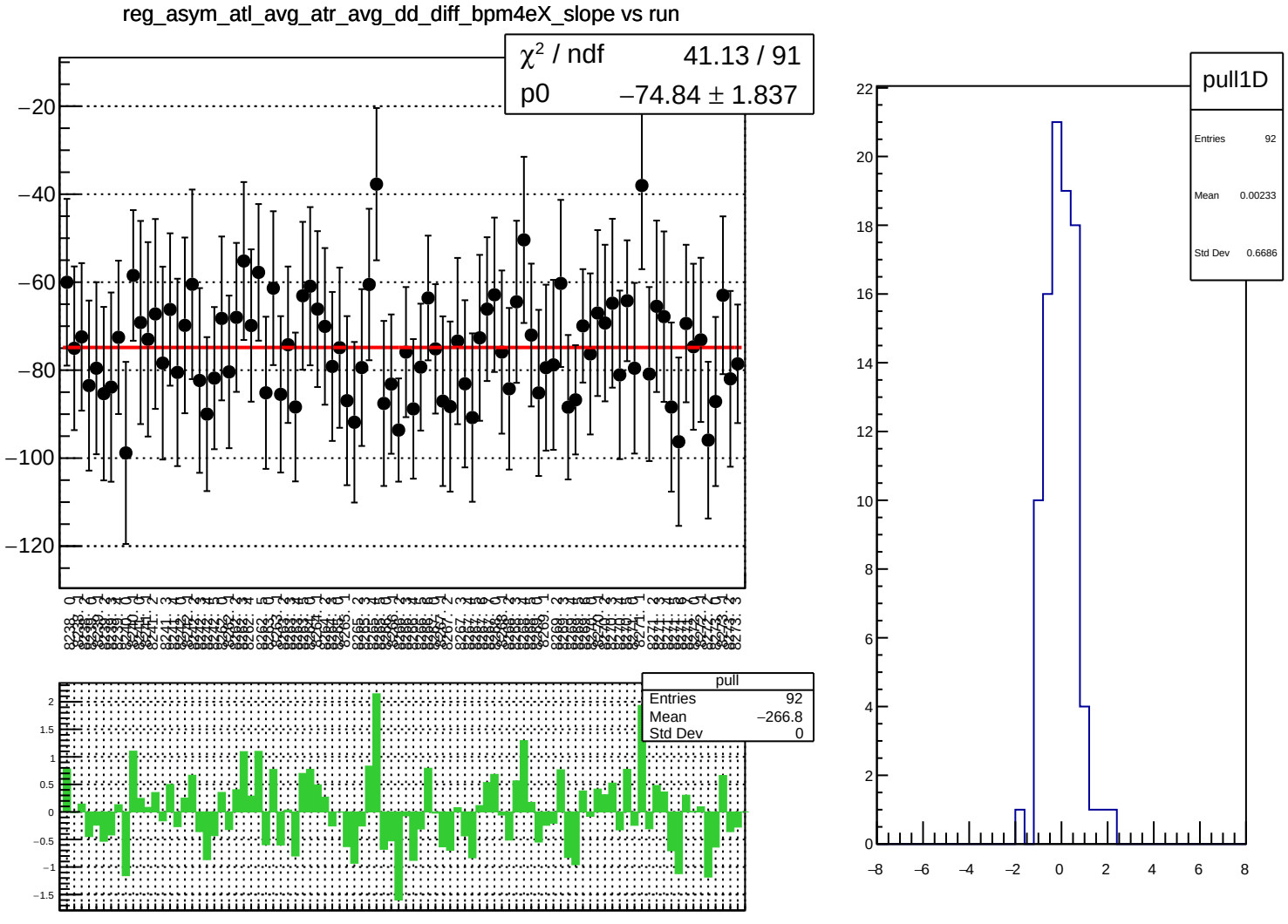

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.971 / 91
p0 12.64 ± 12.15
pull
Entries 92
Mean −690.3
Std Dev 0

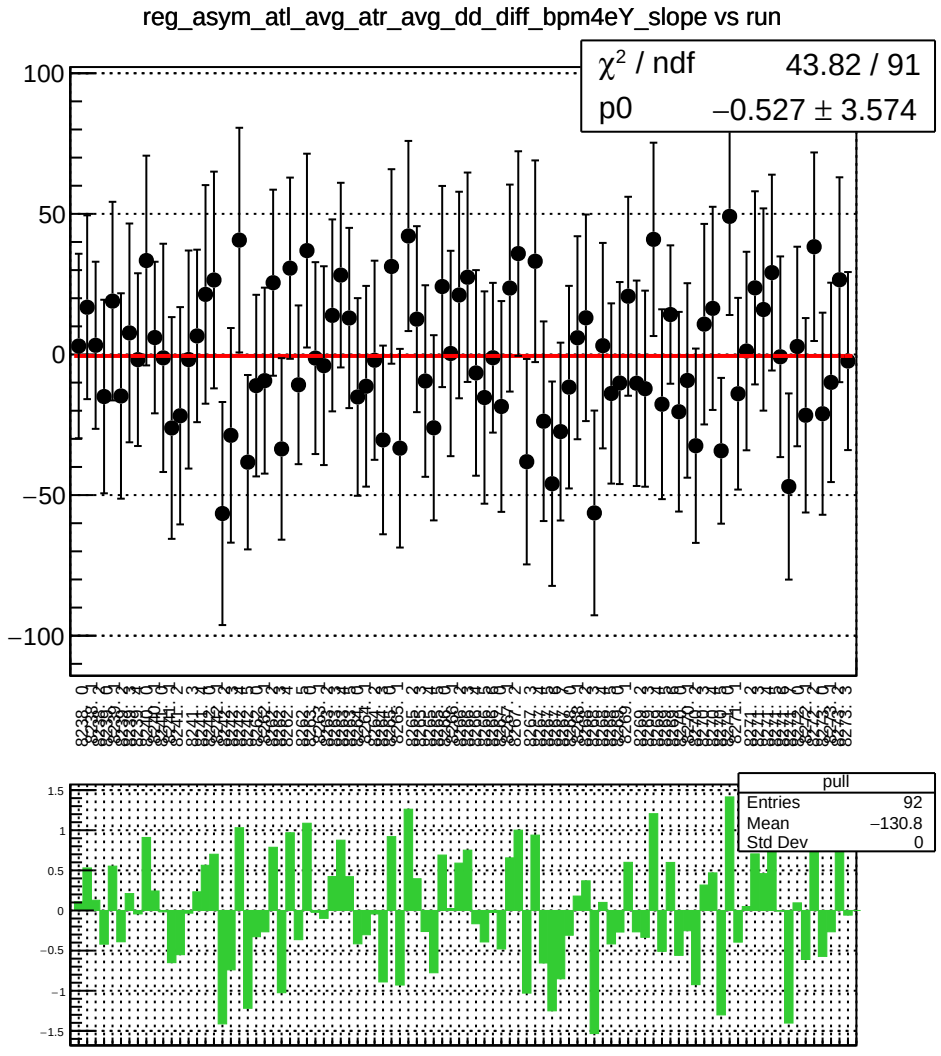

pull1D
Entries 92
Mean −0.003247
Std Dev 0.2324

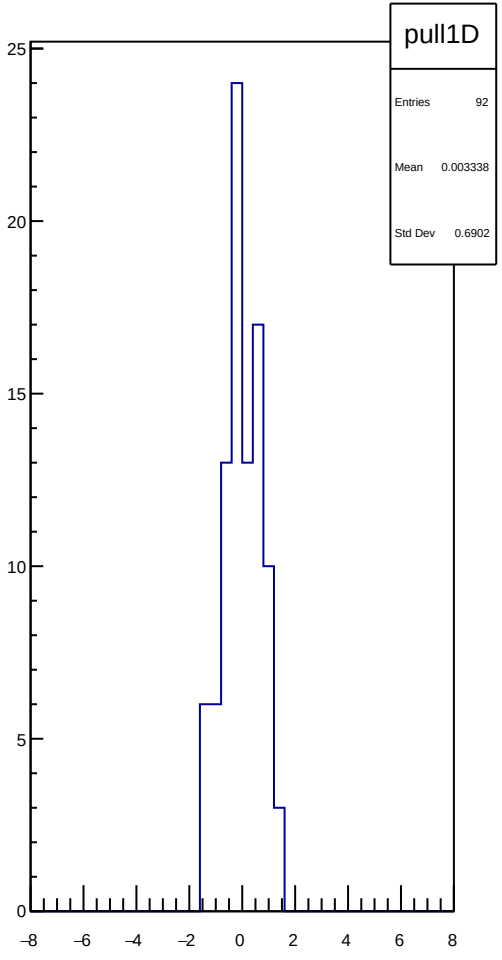

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 14.91 / 91
p0 −169.9 ± 0.6572
pull
Entries 92
Mean 397.6
Std Dev 0
pull1D
Entries 92
Mean −0.007744
Std Dev 0.4025

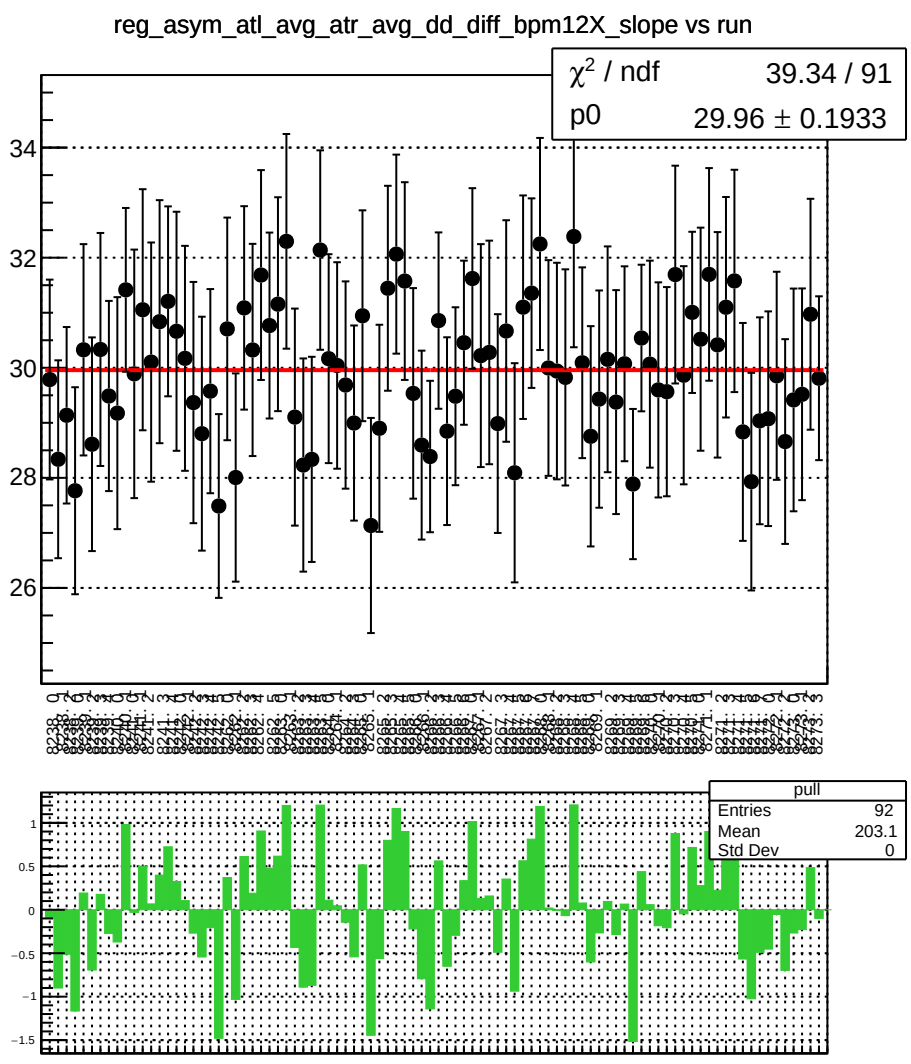

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 39.88 / 91
p0 60.58 ± 1.615
pull
Entries 92
Mean 143
Std Dev 0
pull1D
Entries 92
Mean 0.00424
Std Dev 0.6583

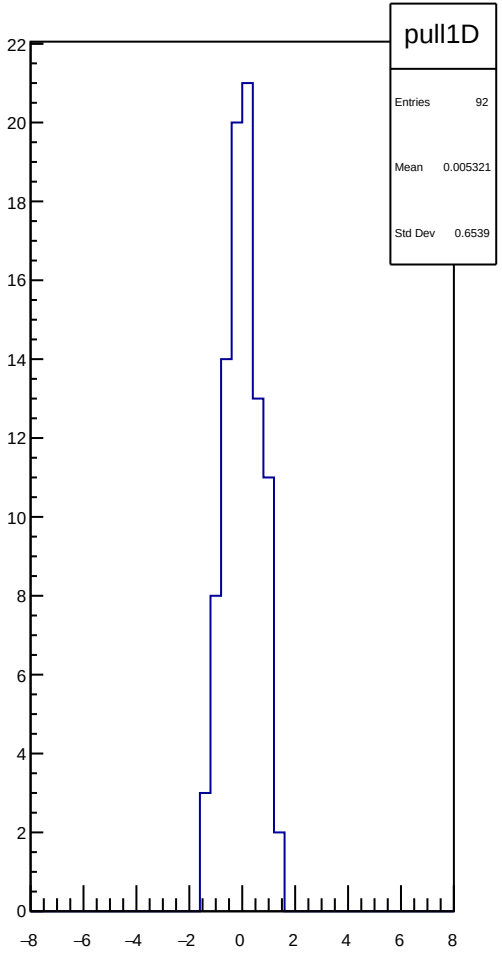

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.38 / 91
p0 −8.553 ± 3.433
pull
Entries 92
Mean −160.5
Std Dev 0
pull1D
Entries 92
Mean −0.001742
Std Dev 0.6946

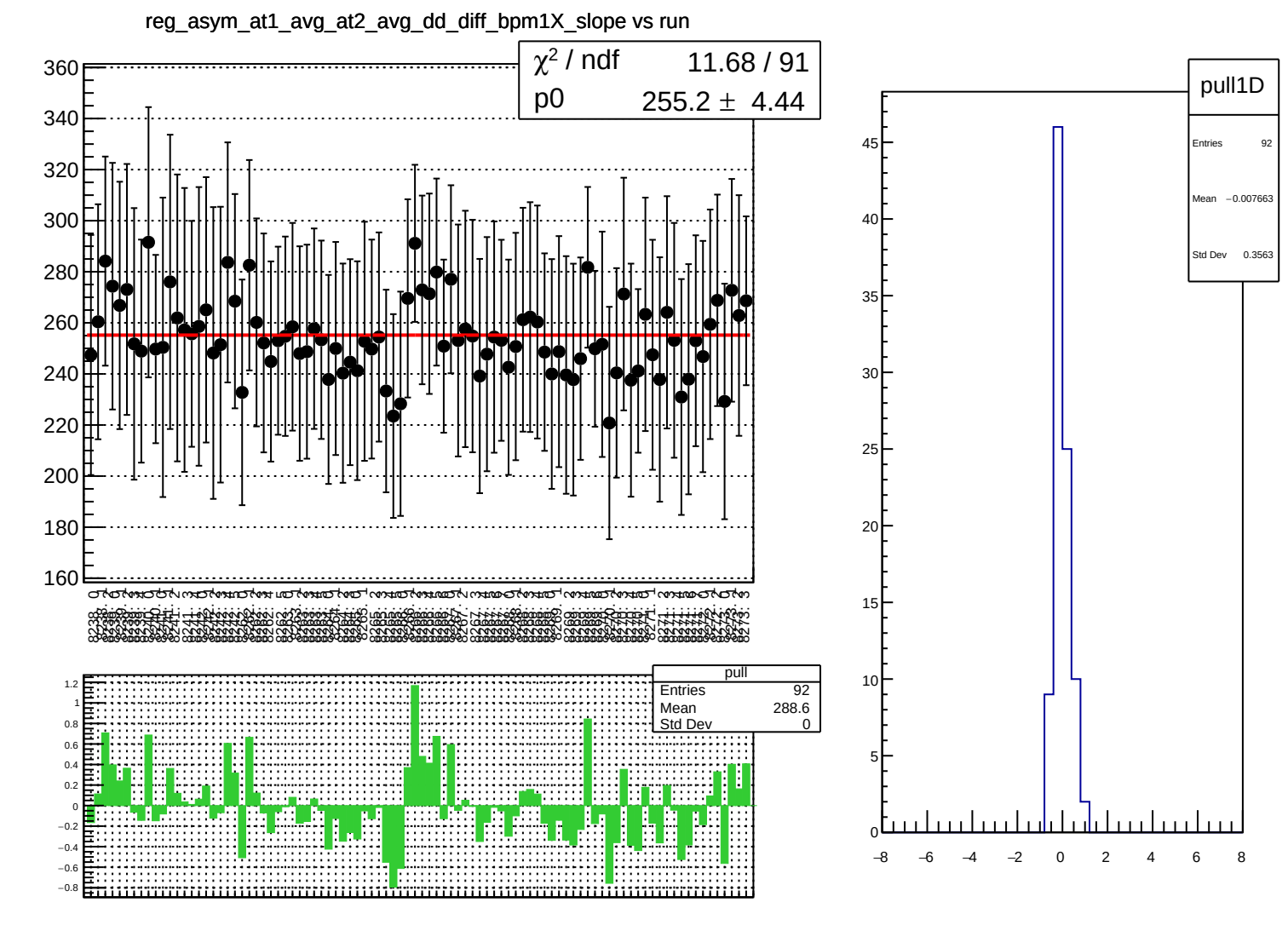

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.13 / 91
p0 −74.84 ± 1.837
pull
Entries 92
Mean −266.8
Std Dev 0
pull1D
Entries 92
Mean 0.00233
Std Dev 0.6686

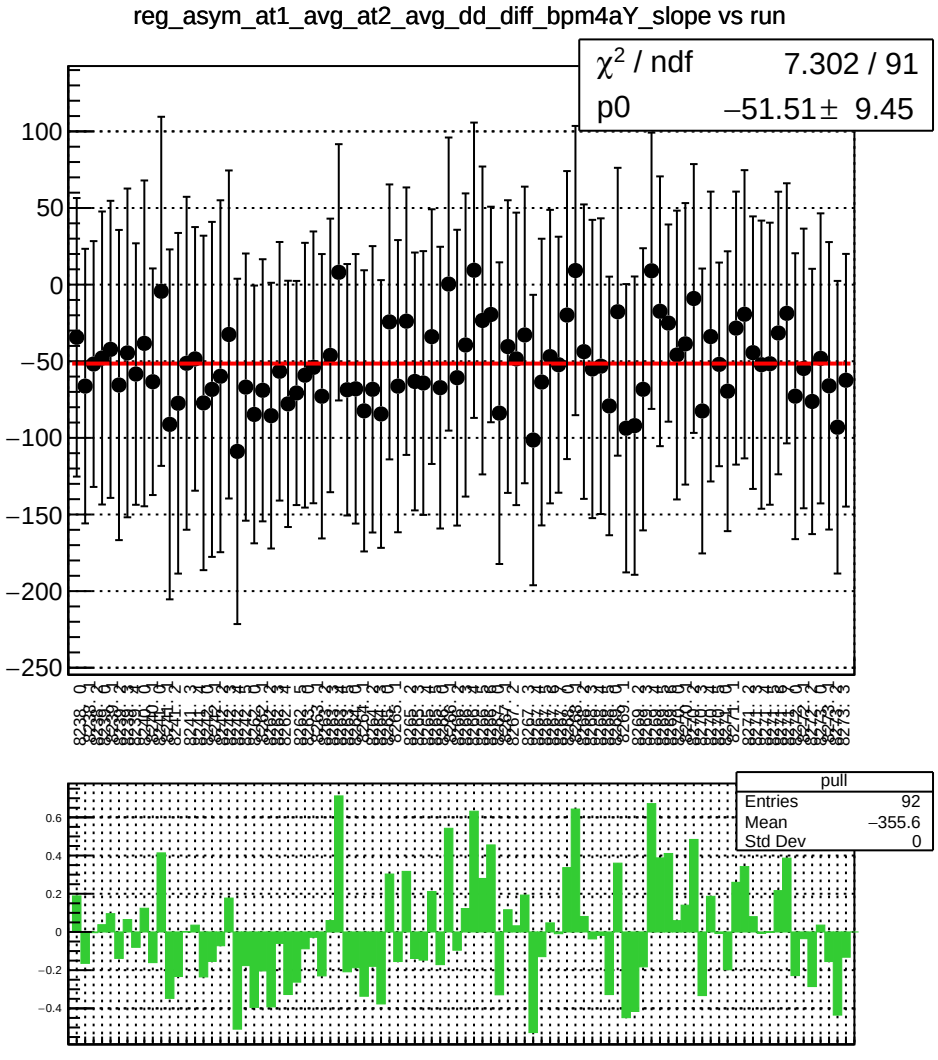

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.82 / 91
p0 −0.527 ± 3.574
pull
Entries 92
Mean −130.8
Std Dev 0

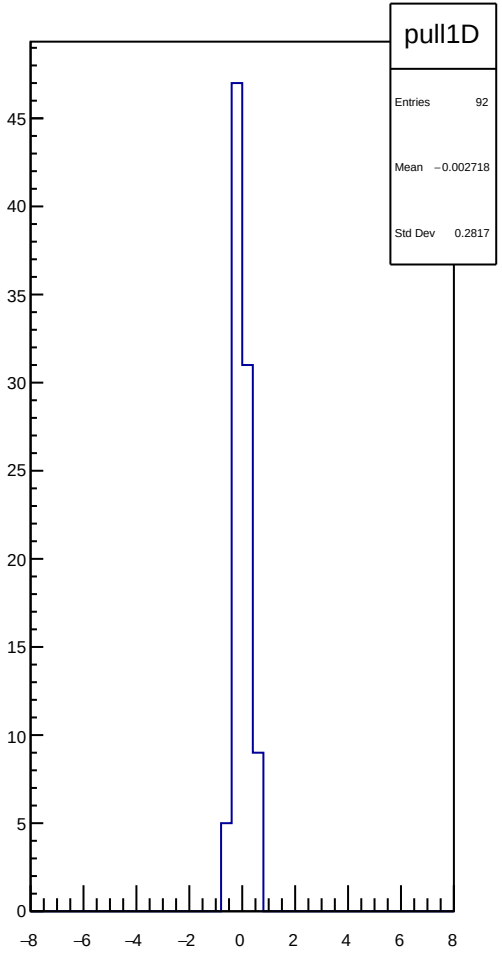

pull1D
Entries 92
Mean 0.003338
Std Dev 0.6902

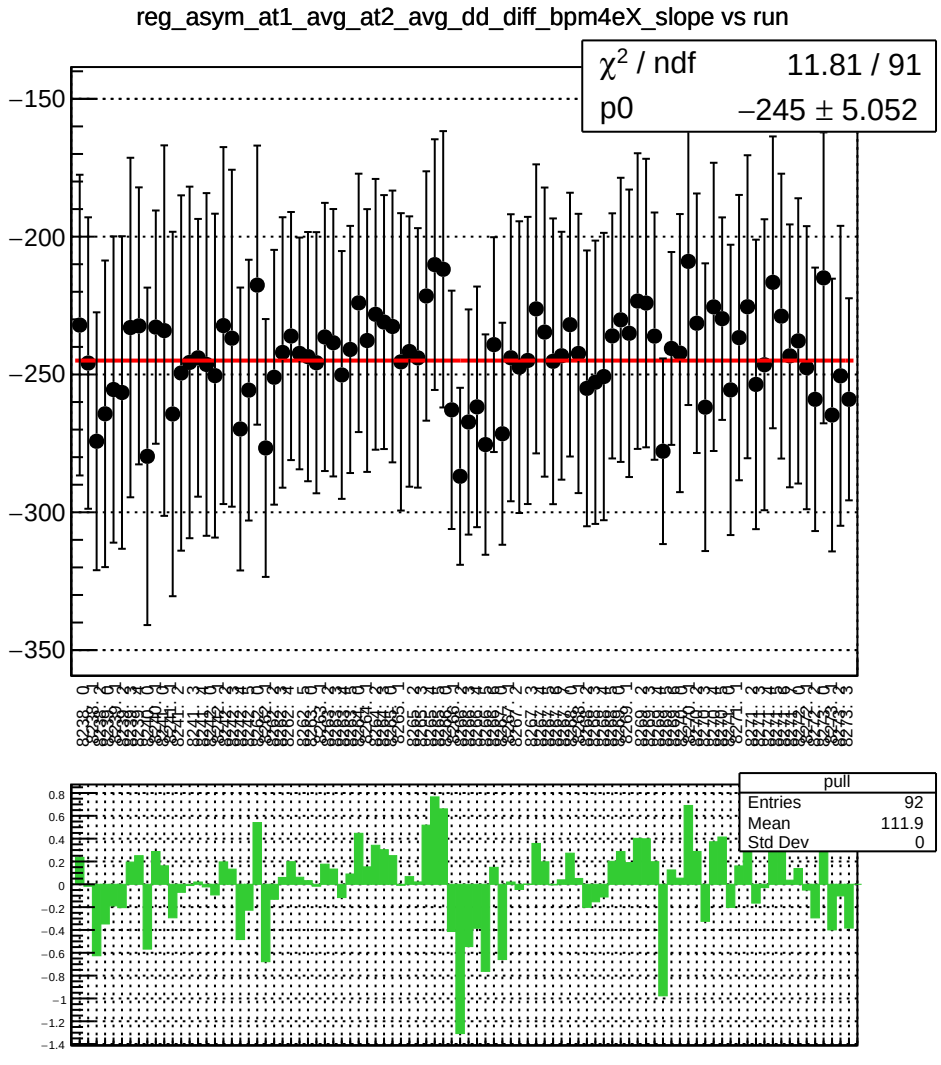

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 39.34 / 91
p0 29.96 ± 0.1933
pull
Entries 92
Mean 203.1
Std Dev 0

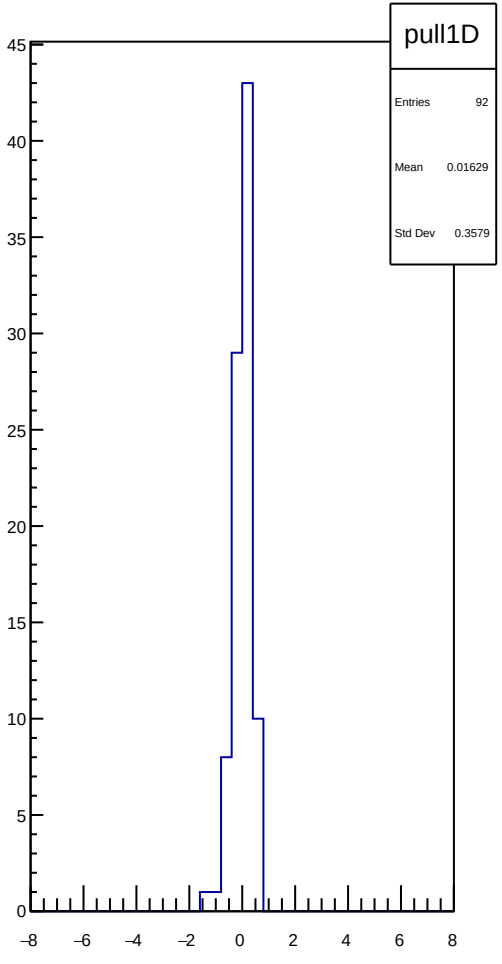

pull1D
Entries 92
Mean 0.005321
Std Dev 0.6539

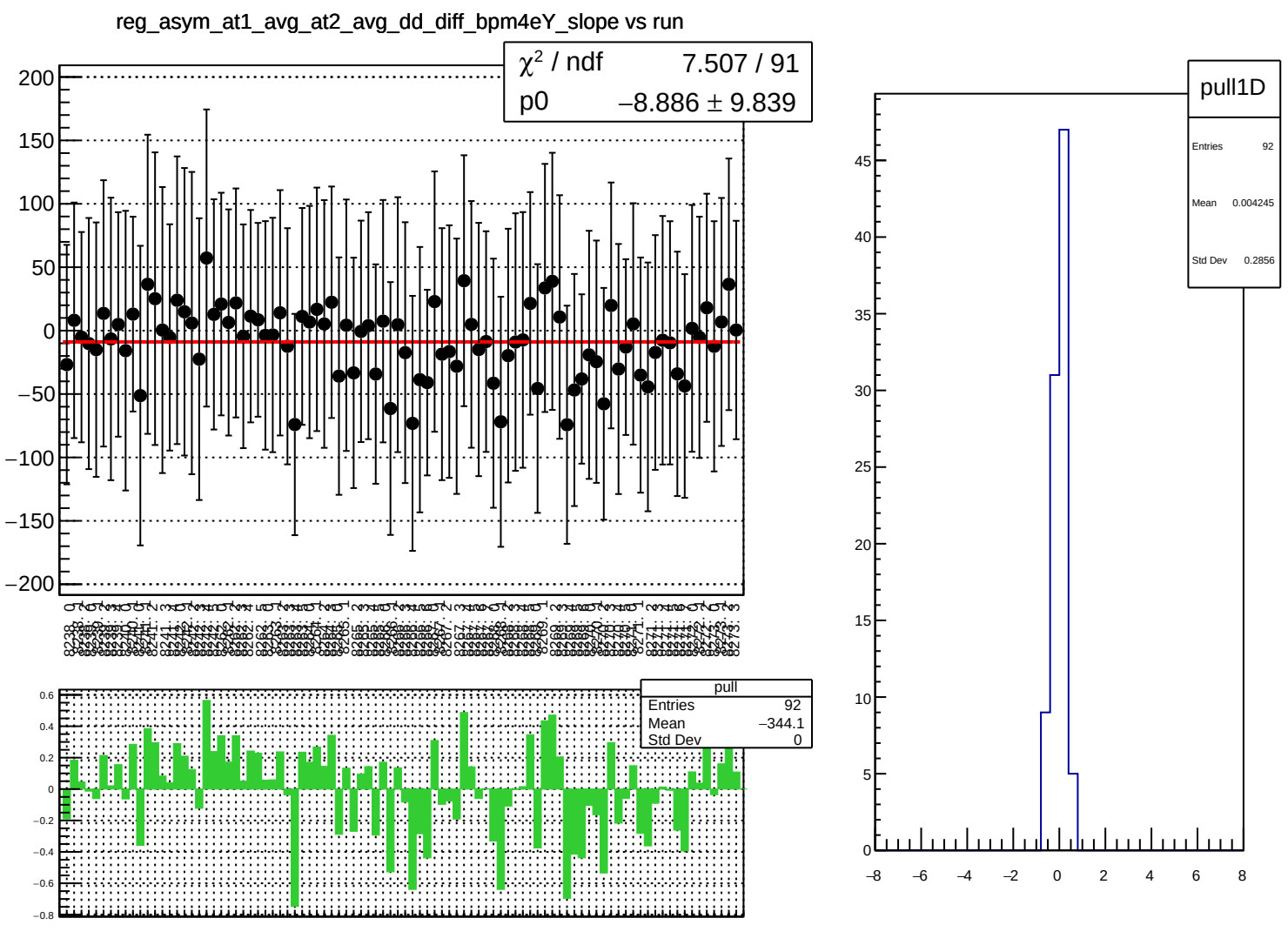

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 11.68 / 91
p0 255.2 ± 4.44
pull
Entries 92
Mean 288.6
Std Dev 0
pull1D
Entries 92
Mean −0.007663
Std Dev 0.3563

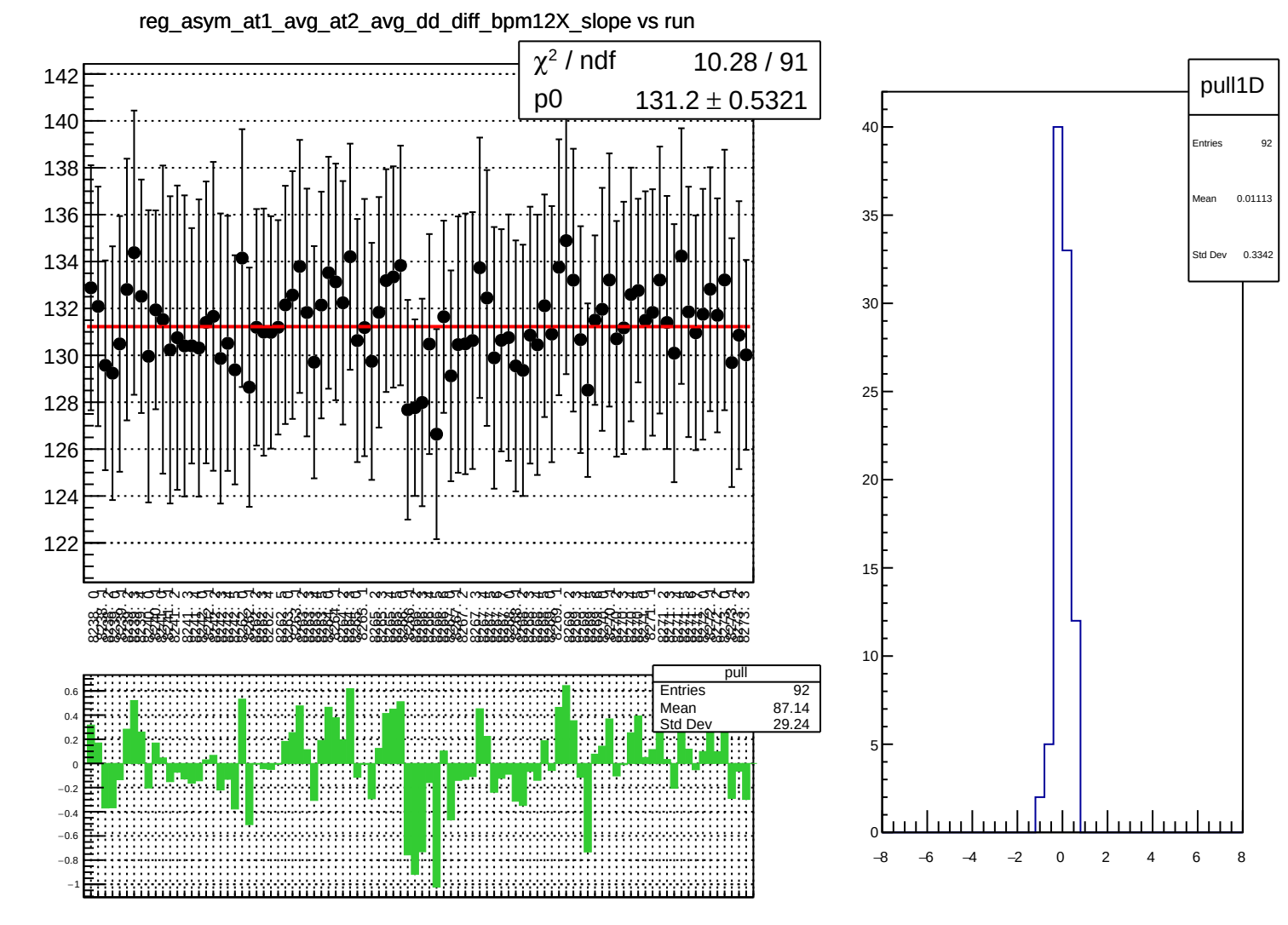

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.302 / 91
p0 −51.51 ± 9.45
pull
Entries 92
Mean −355.6
Std Dev 0

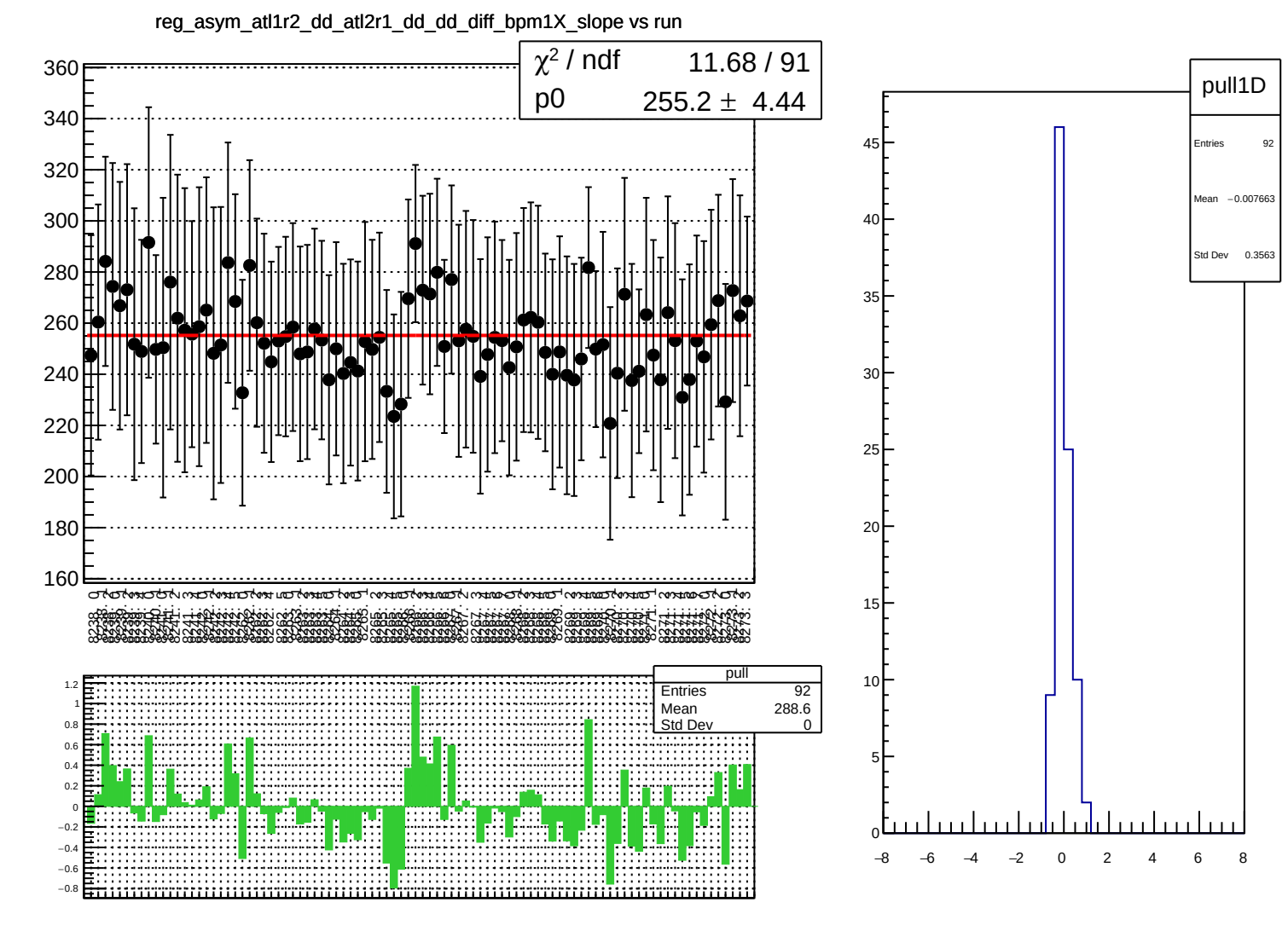

pull1D
Entries 92
Mean −0.002718
Std Dev 0.2817

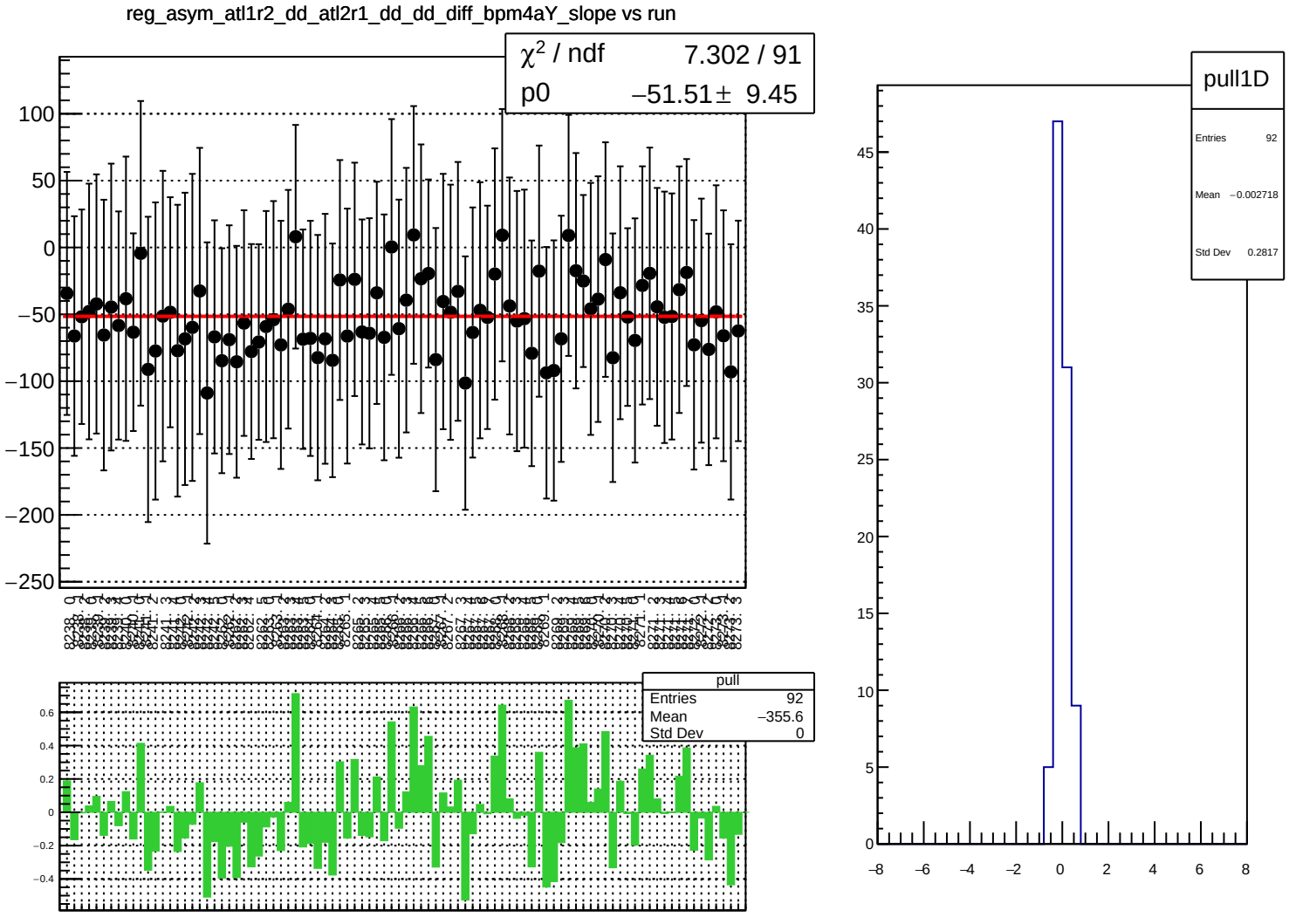

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.81 / 91
p0 −245 ± 5.052
pull
Entries 92
Mean 111.9
Std Dev 0

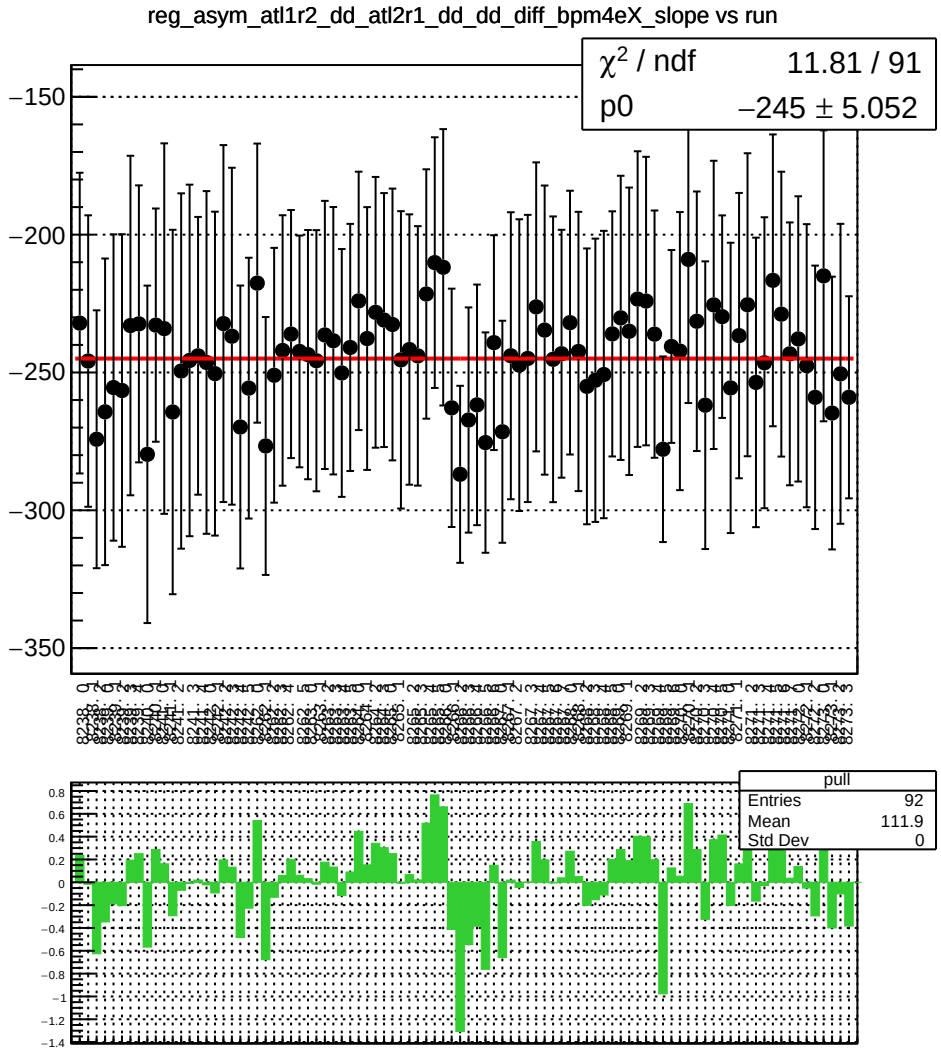

pull1D
Entries 92
Mean 0.01629
Std Dev 0.3579

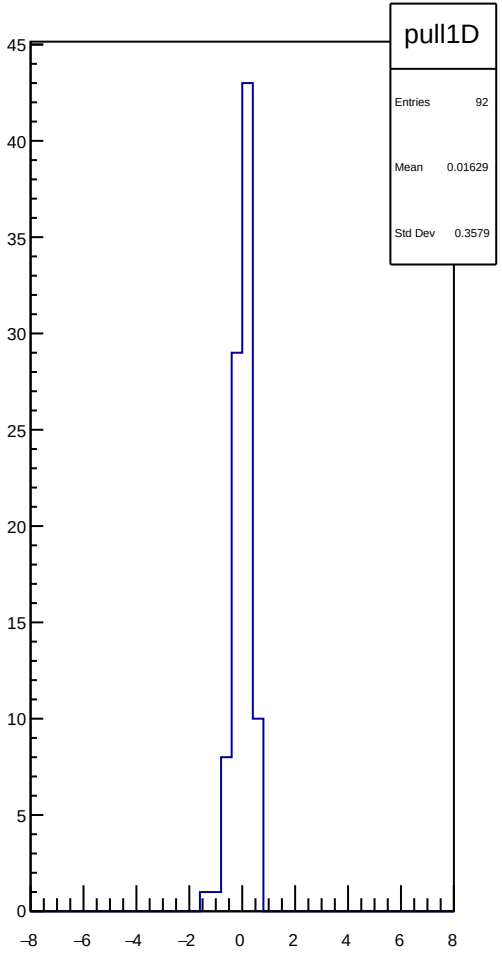

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.507 / 91
p0 −8.886 ± 9.839
pull
Entries 92
Mean −344.1
Std Dev 0
pull1D
Entries 92
Mean 0.004245
Std Dev 0.2856

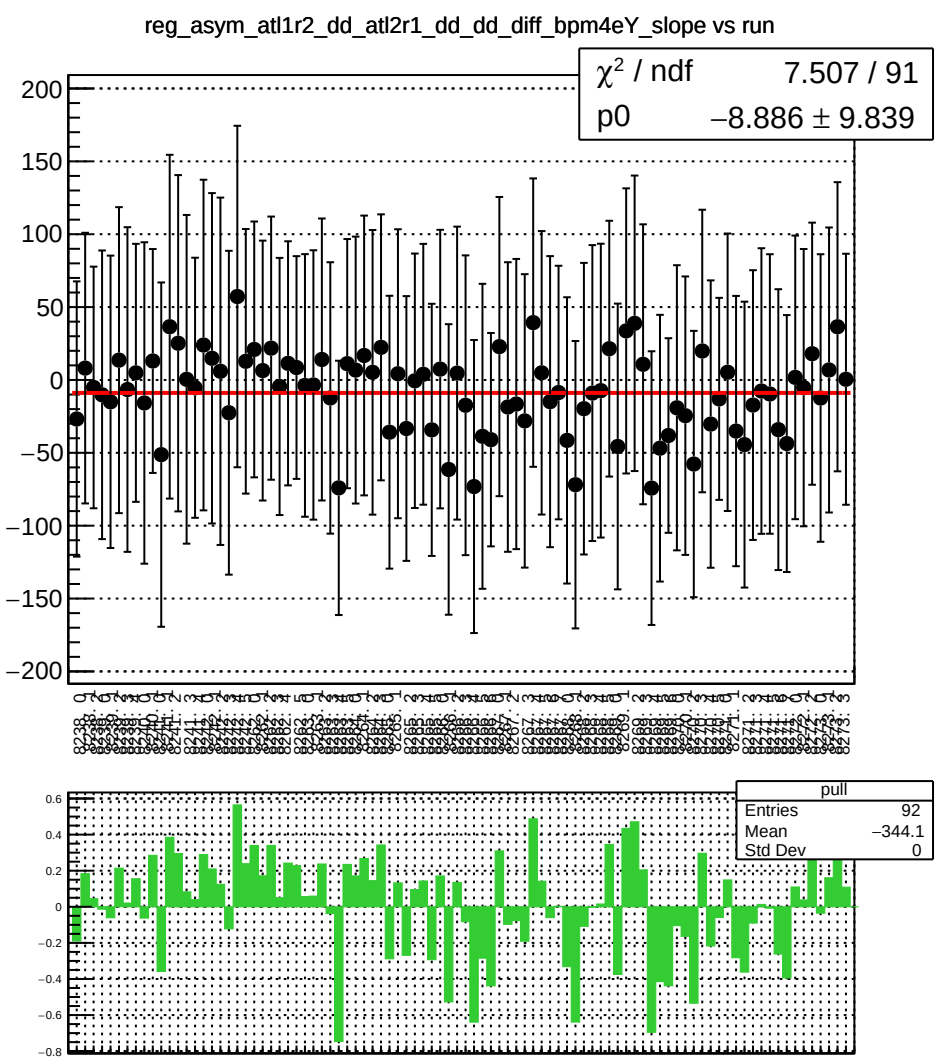

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 10.28 / 91
p0 131.2 ± 0.5321
pull
Entries 92
Mean 87.14
Std Dev 29.24
pull1D
Entries 92
Mean 0.01113
Std Dev 0.3342

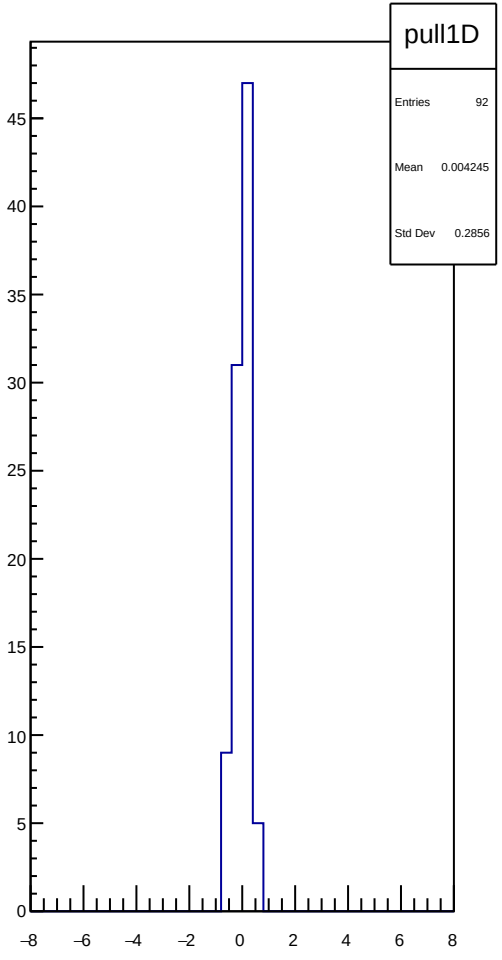

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 11.68 / 91
p0 255.2 ± 4.44
pull
Entries 92
Mean 288.6
Std Dev 0
pull1D
Entries 92
Mean −0.007663
Std Dev 0.3563

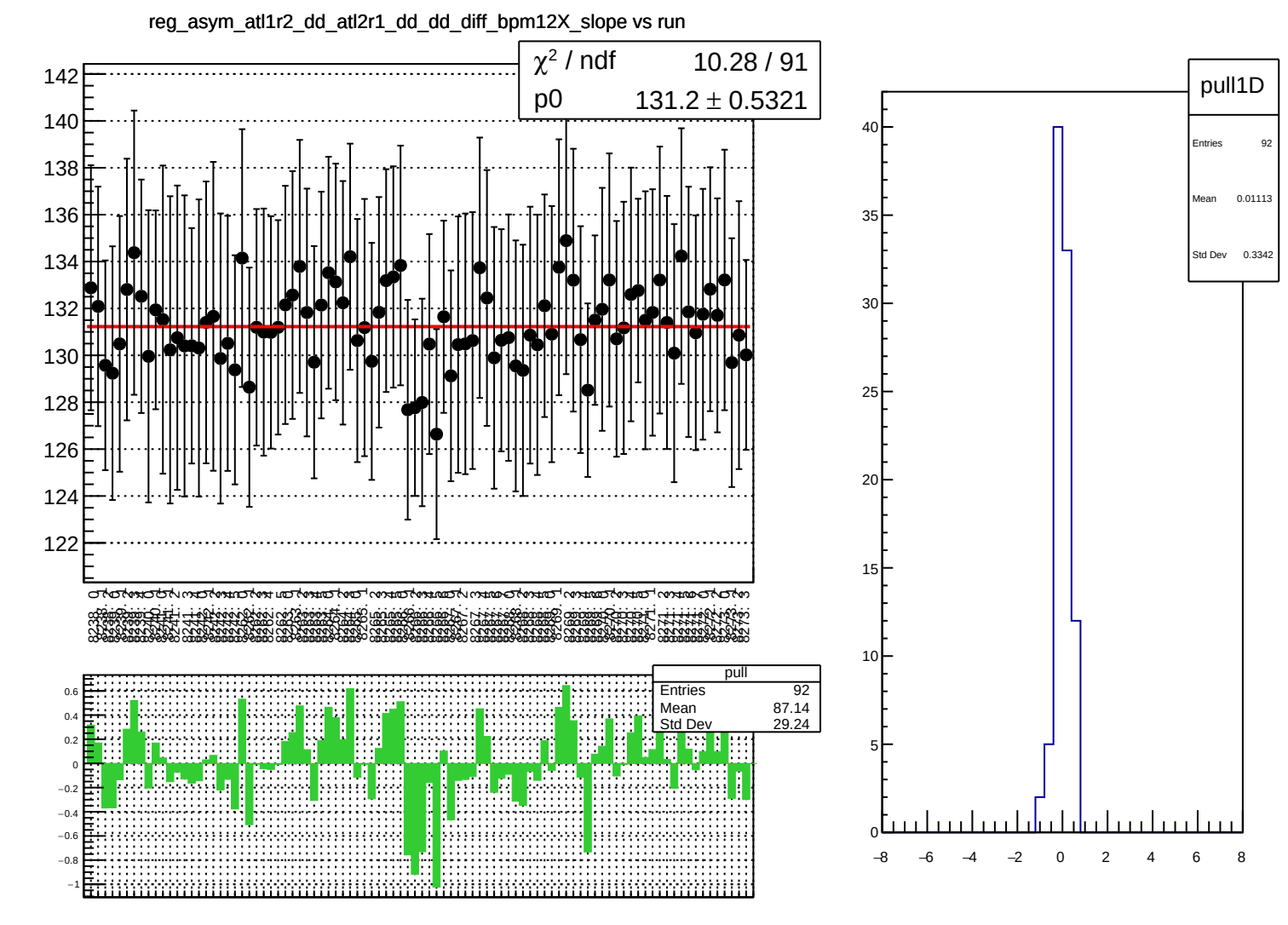

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.302 / 91
p0 −51.51 ± 9.45
pull
Entries 92
Mean −355.6
Std Dev 0
pull1D
Entries 92
Mean −0.002718
Std Dev 0.2817

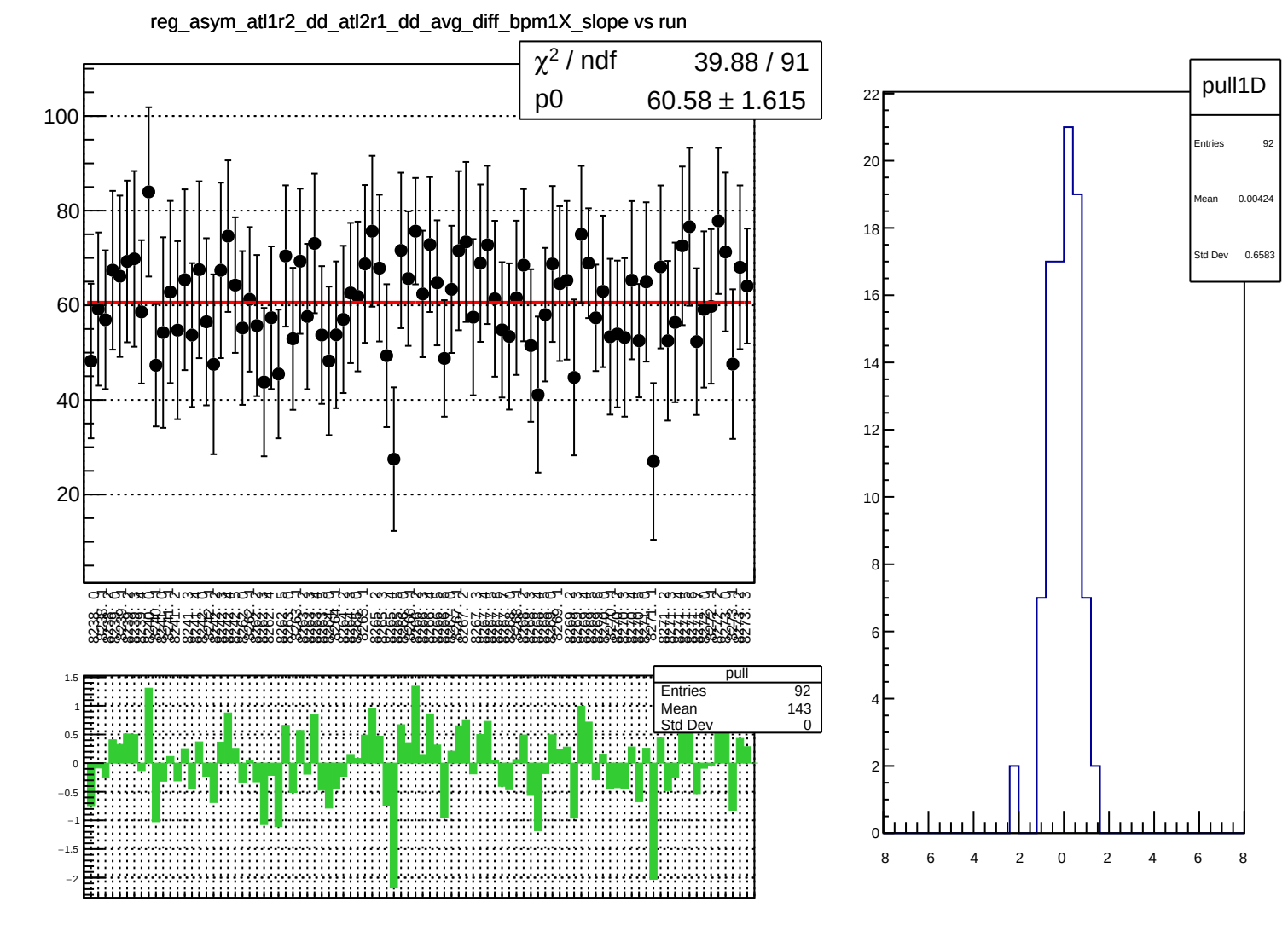

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.81 / 91
p0 −245 ± 5.052
pull
Entries 92
Mean 111.9
Std Dev 0

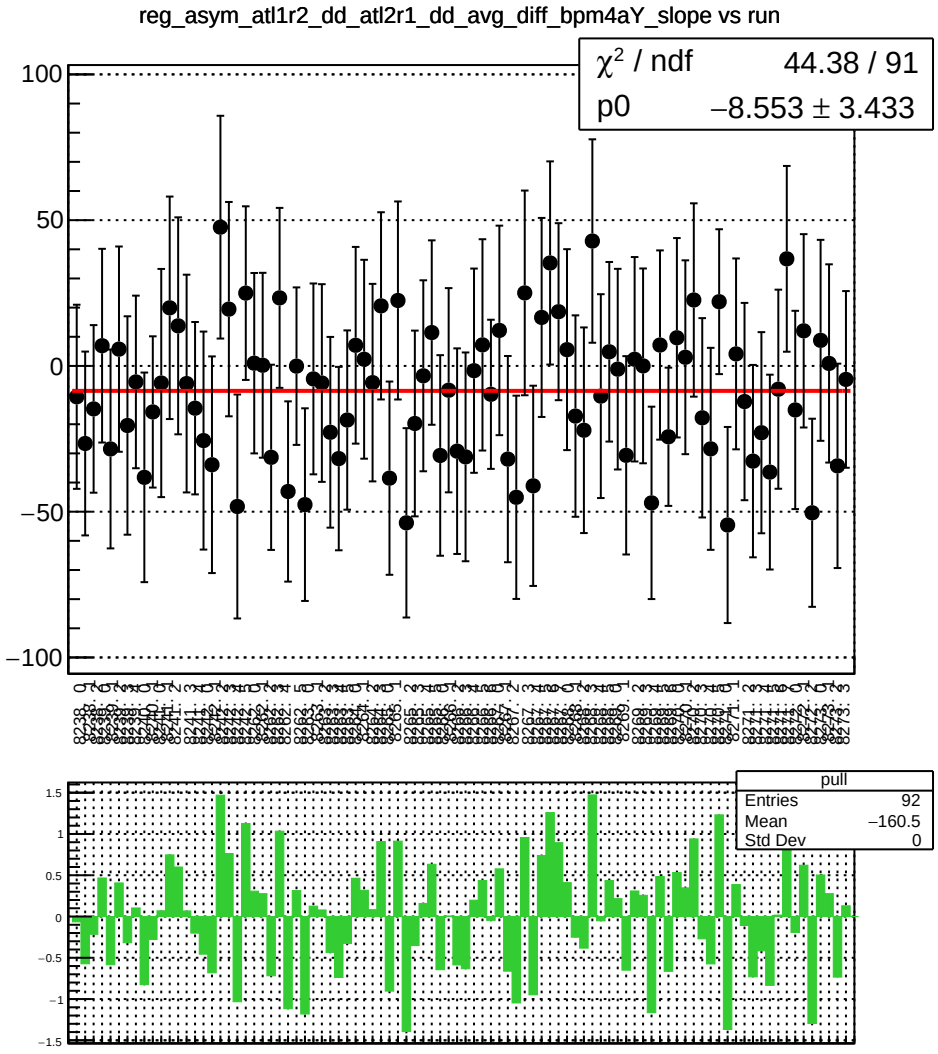

pull1D
Entries 92
Mean 0.01629
Std Dev 0.3579

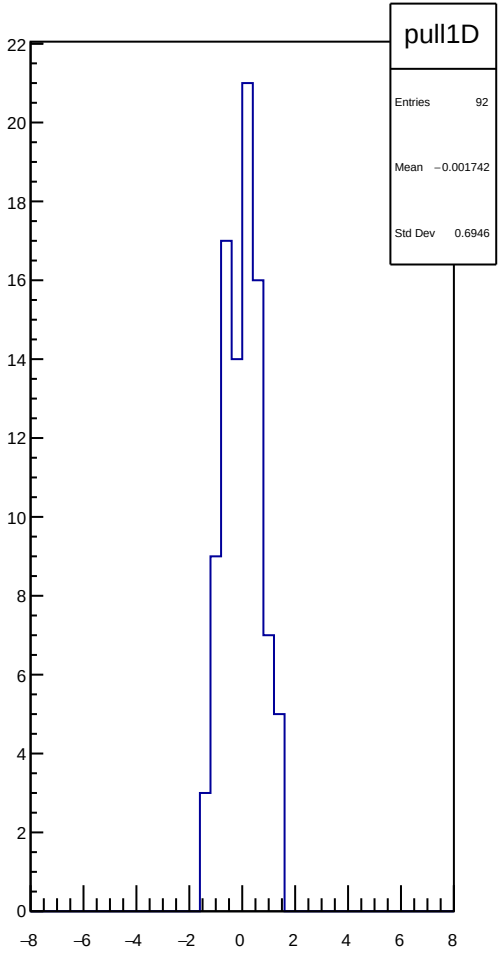

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.507 / 91
p0 −8.886 ± 9.839
pull
Entries 92
Mean −344.1
Std Dev 0

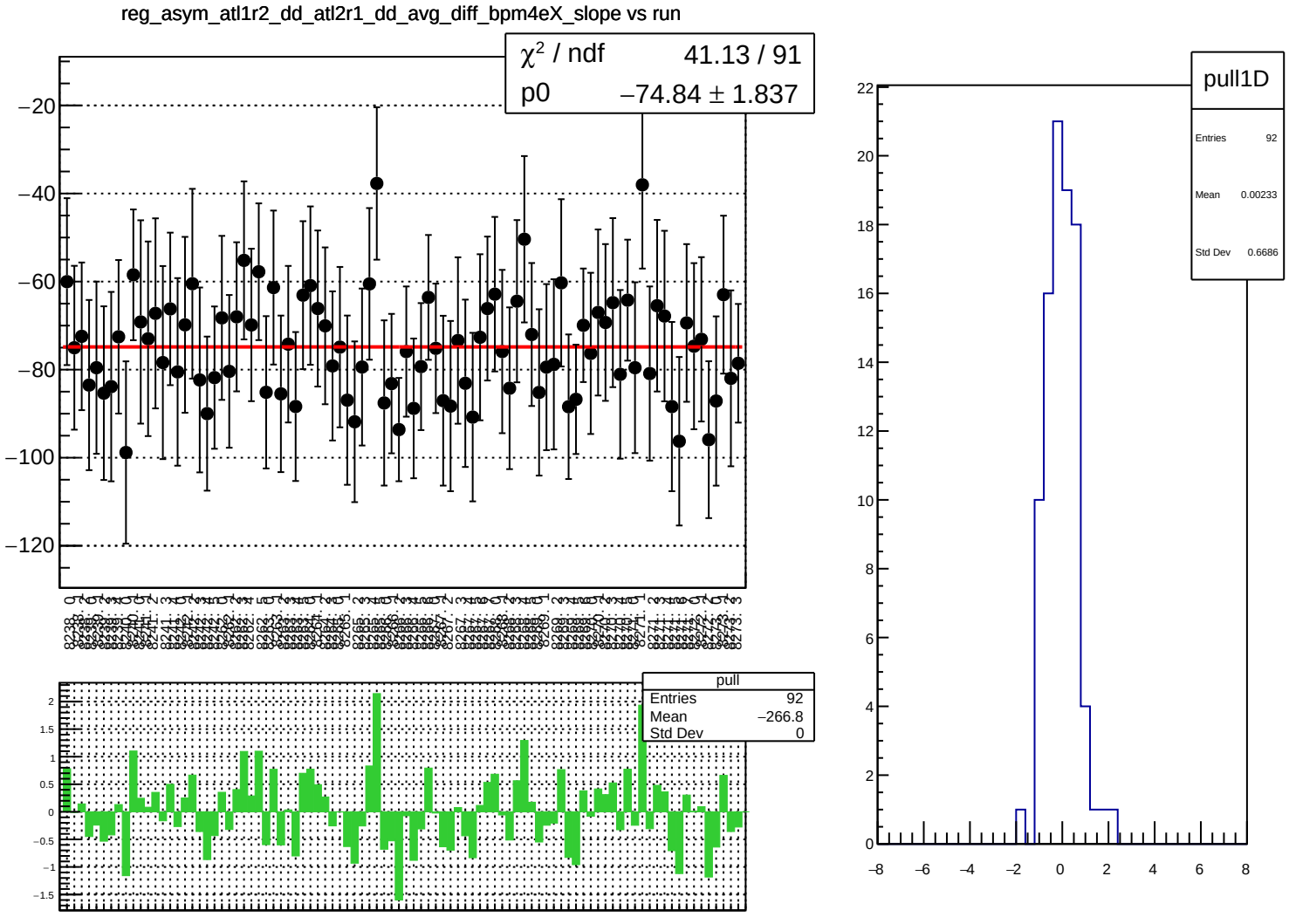

pull1D
Entries 92
Mean 0.004245
Std Dev 0.2856

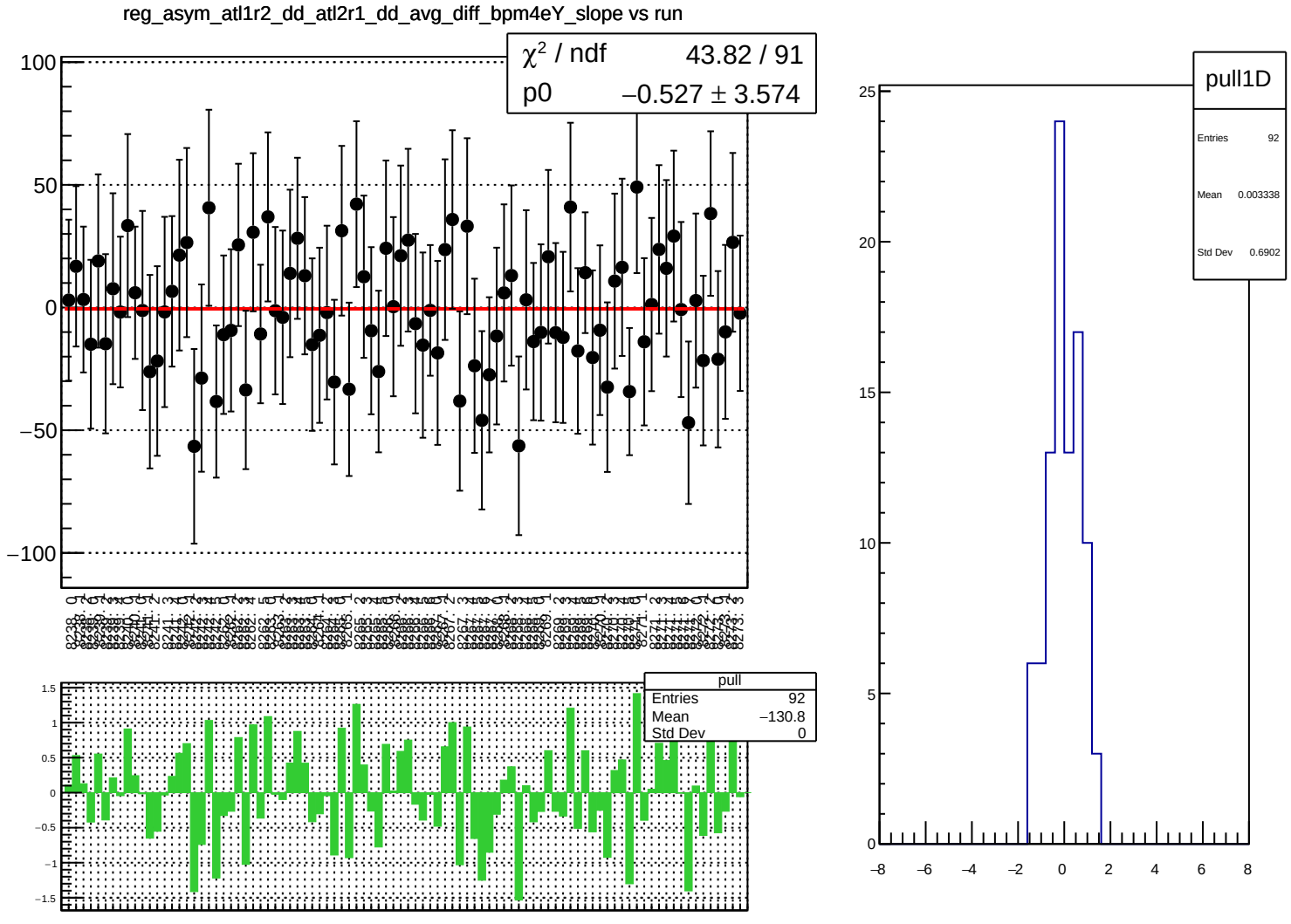

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 10.28 / 91
p0 131.2 ± 0.5321
142
140
138
136
134
132
130
128
126
124
122
pull
Entries 92
Mean 87.14
Std Dev 29.24
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 92
Mean 0.01113
Std Dev 0.3342
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

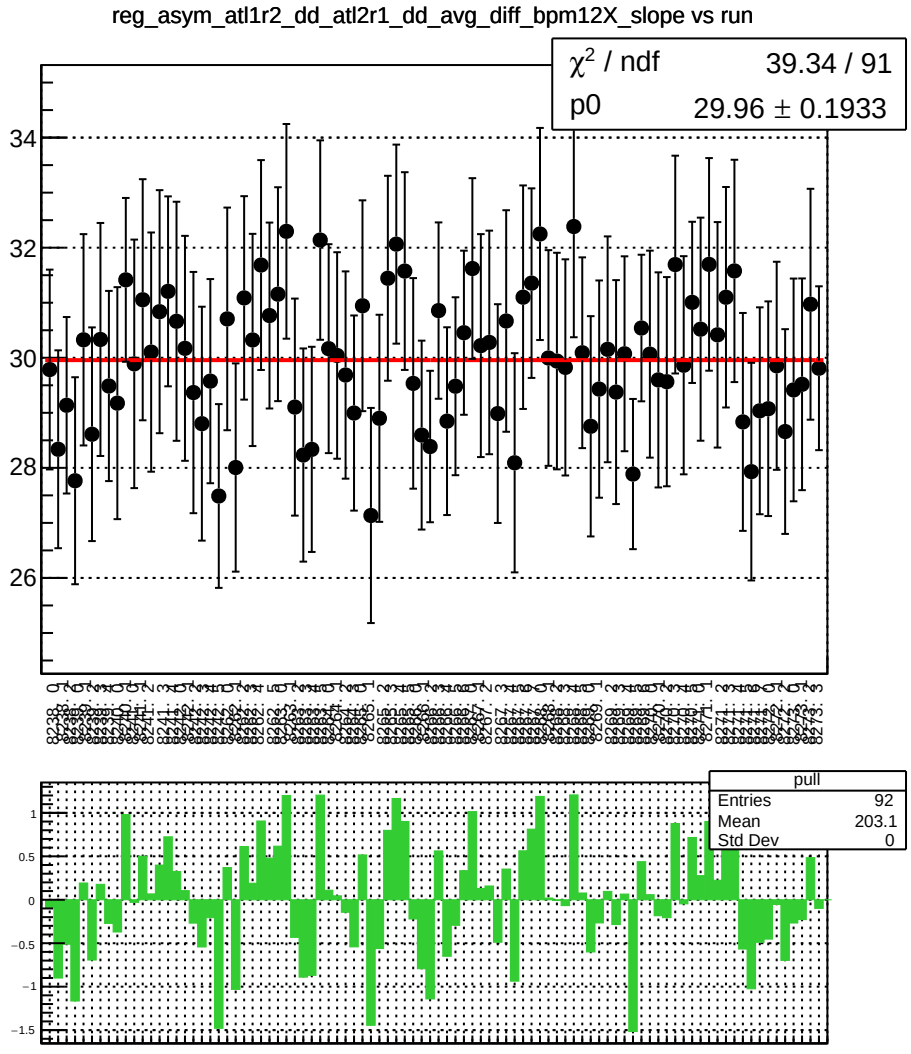

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 39.88 / 91
p0 60.58 ± 1.615
pull
Entries 92
Mean 143
Std Dev 0
pull1D
Entries 92
Mean 0.00424
Std Dev 0.6583

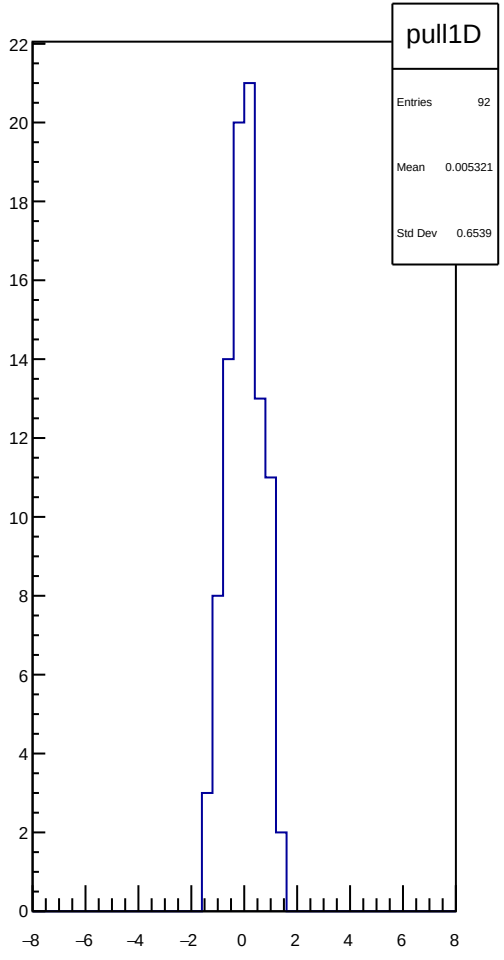

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 44.38 / 91
p0 −8.553 ± 3.433
pull
Entries 92
Mean −160.5
Std Dev 0

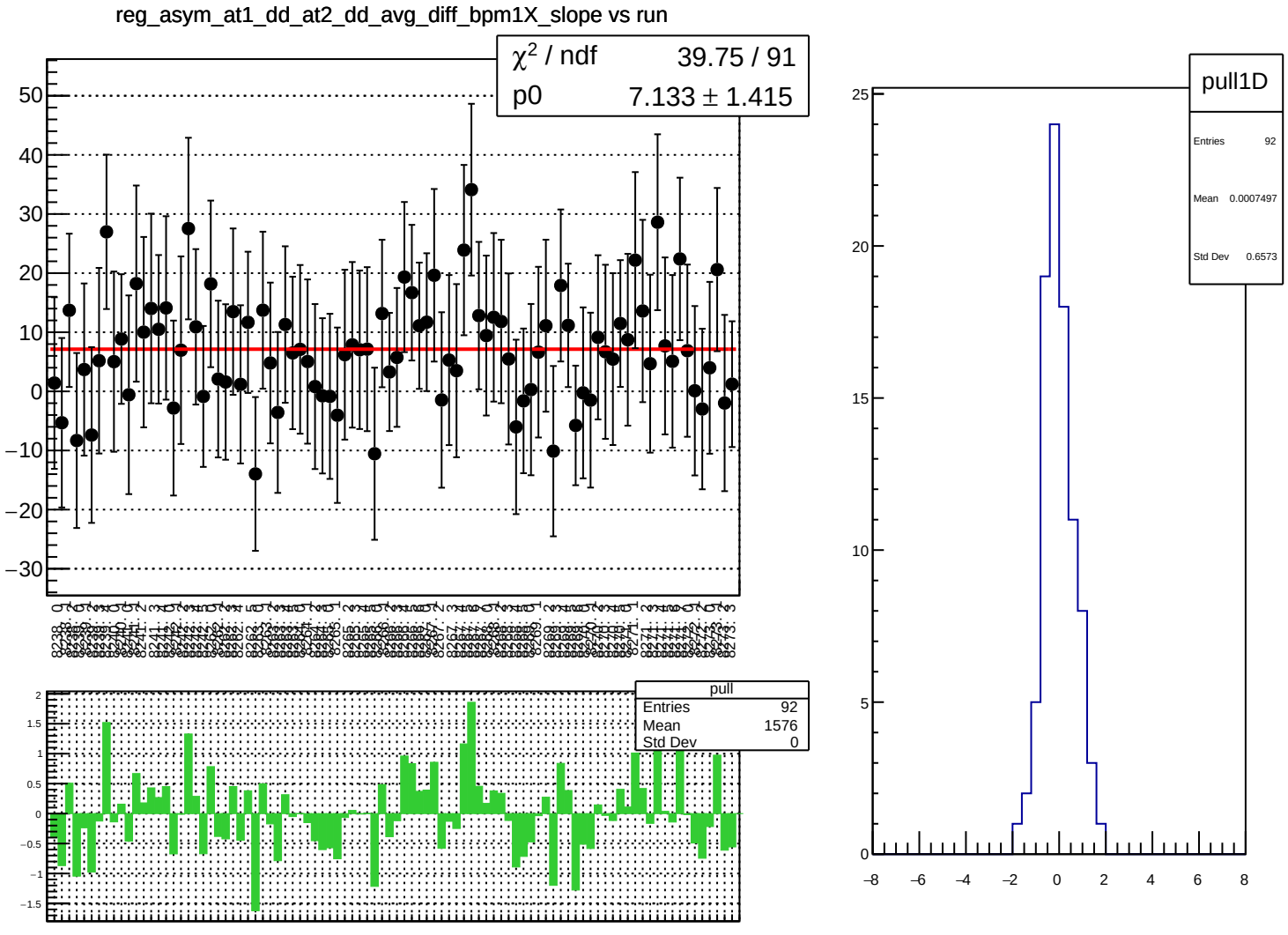

pull1D
Entries 92
Mean −0.001742
Std Dev 0.6946

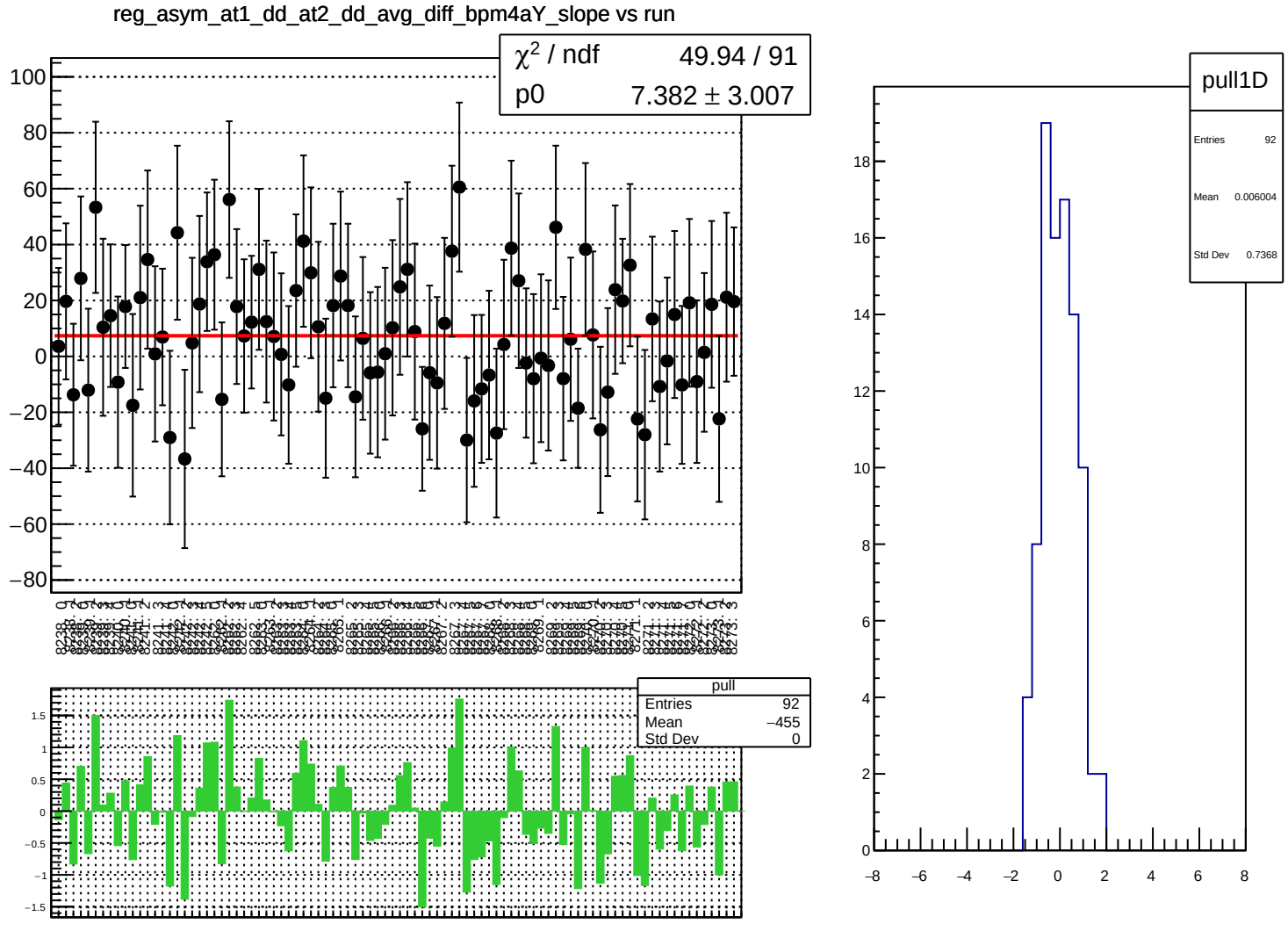

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 41.13 / 91
p0 −74.84 ± 1.837
pull
Entries 92
Mean −266.8
Std Dev 0
pull1D
Entries 92
Mean 0.00233
Std Dev 0.6686

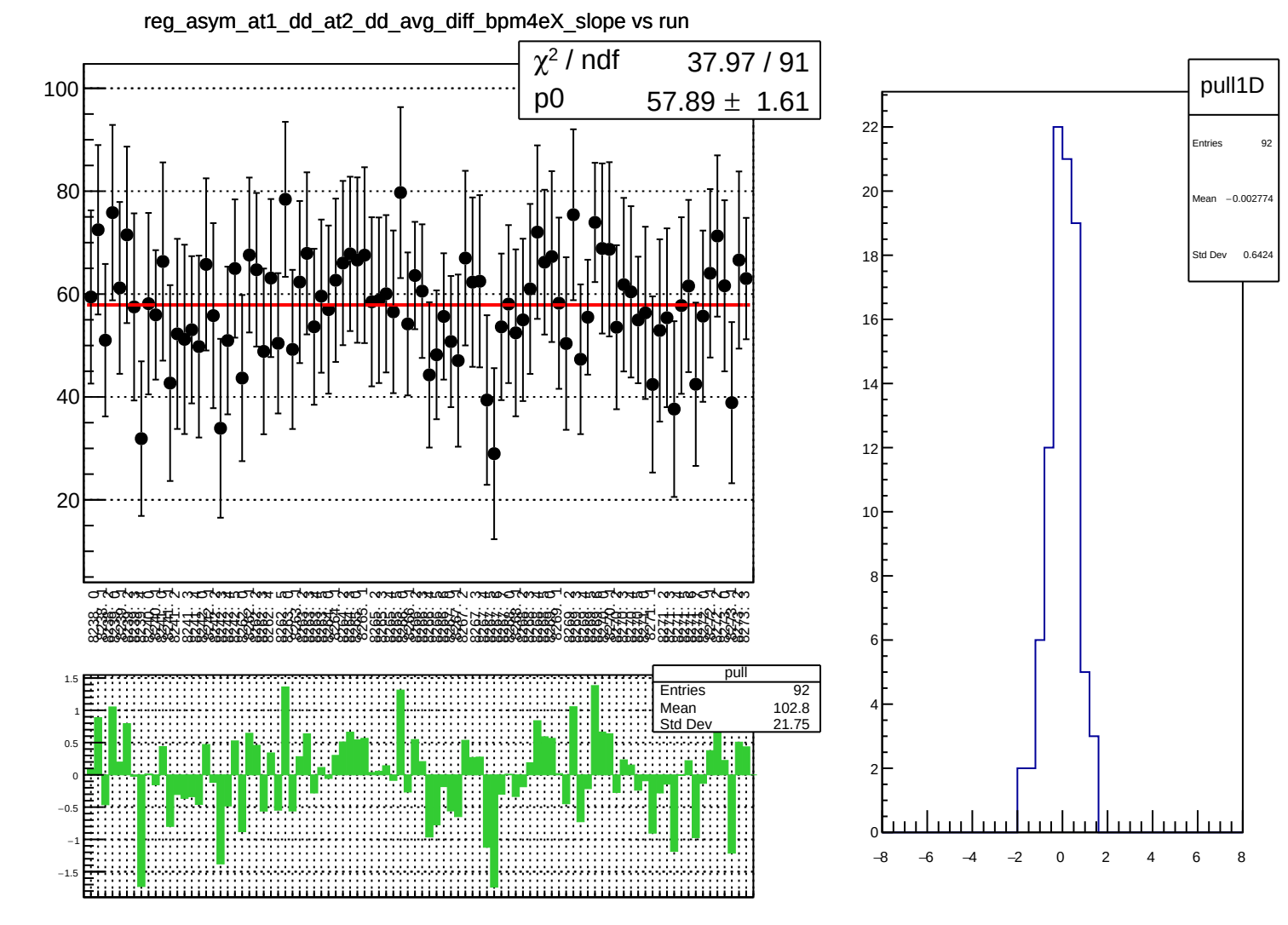

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.82 / 91
p0 −0.527 ± 3.574
100
50
0
−50
−100
pull
Entries 92
Mean −130.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean 0.003338
Std Dev 0.6902
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

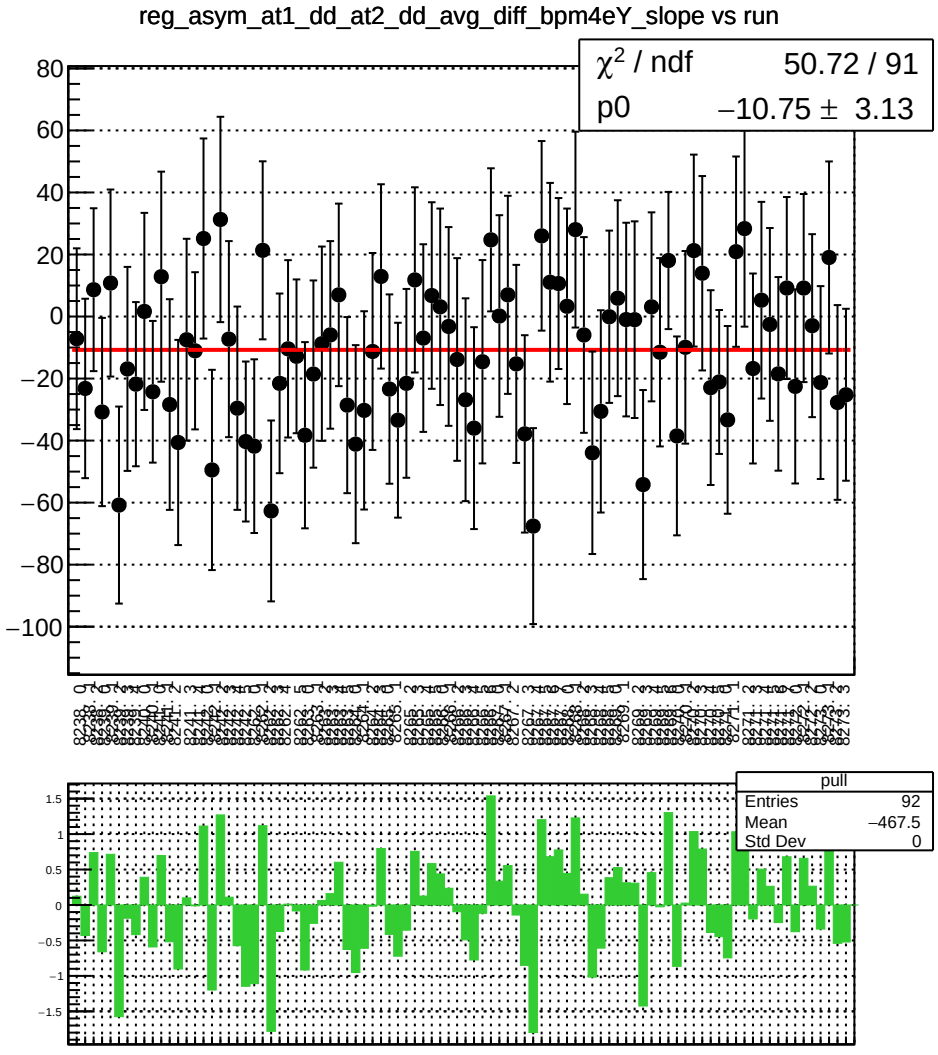

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 39.34 / 91
p0 29.96 ± 0.1933
34
32
30
28
26
pull
Entries 92
Mean 203.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

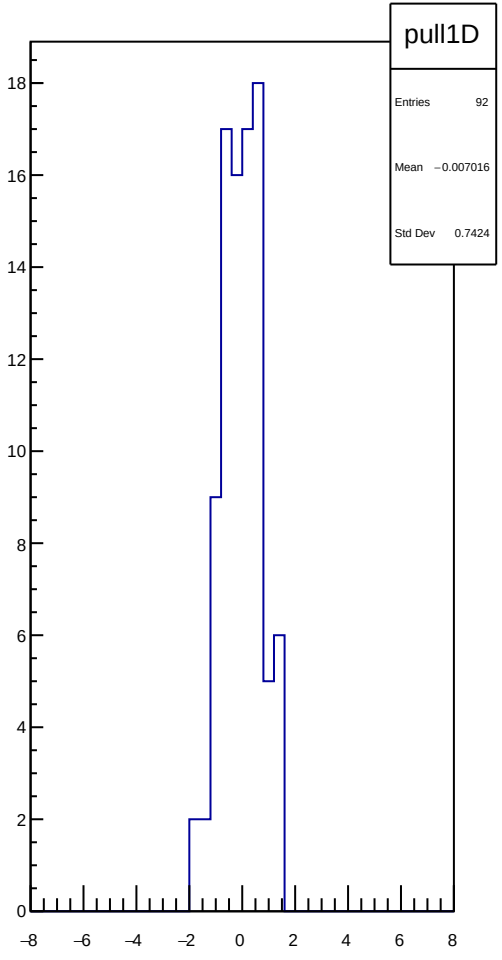

pull1D
Entries 92
Mean 0.005321
Std Dev 0.6539
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

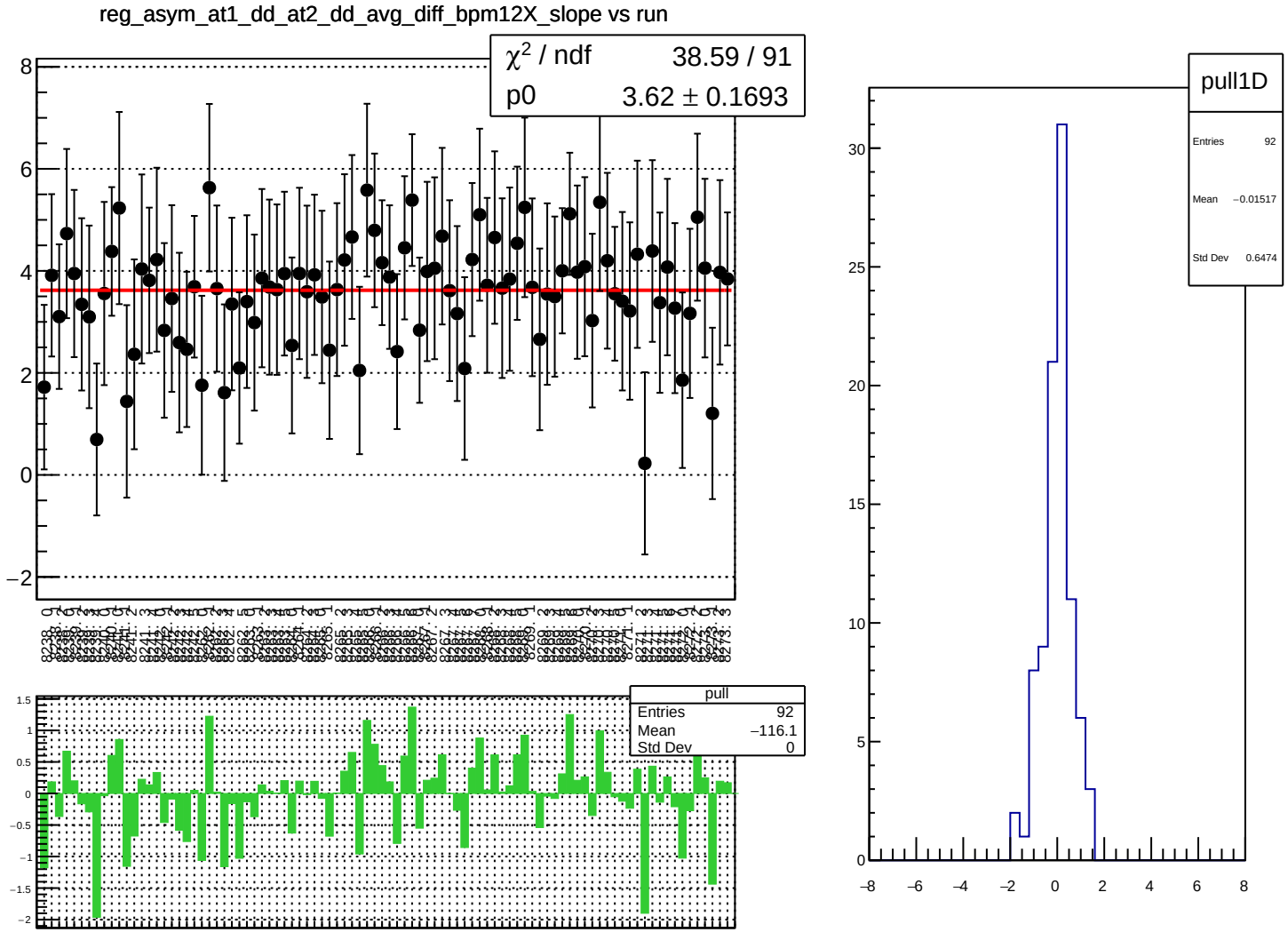

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 39.75 / 91
p0 7.133 ± 1.415
pull
Entries 92
Mean 1576
Std Dev 0
pull1D
Entries 92
Mean 0.0007497
Std Dev 0.6573

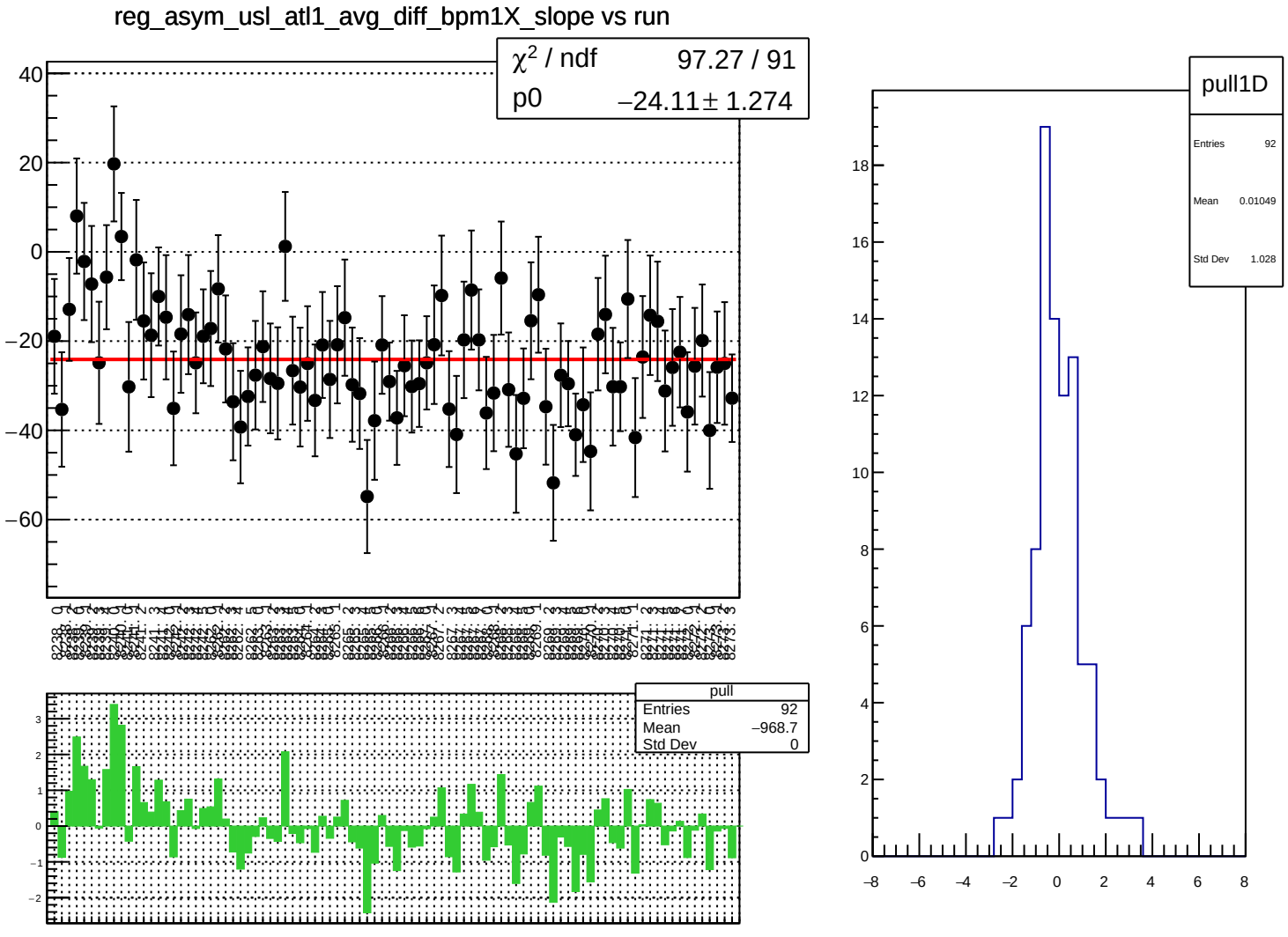

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 49.94 / 91
p0 7.382 ± 3.007
pull
Entries 92
Mean −455
Std Dev 0
pull1D
Entries 92
Mean 0.006004
Std Dev 0.7368

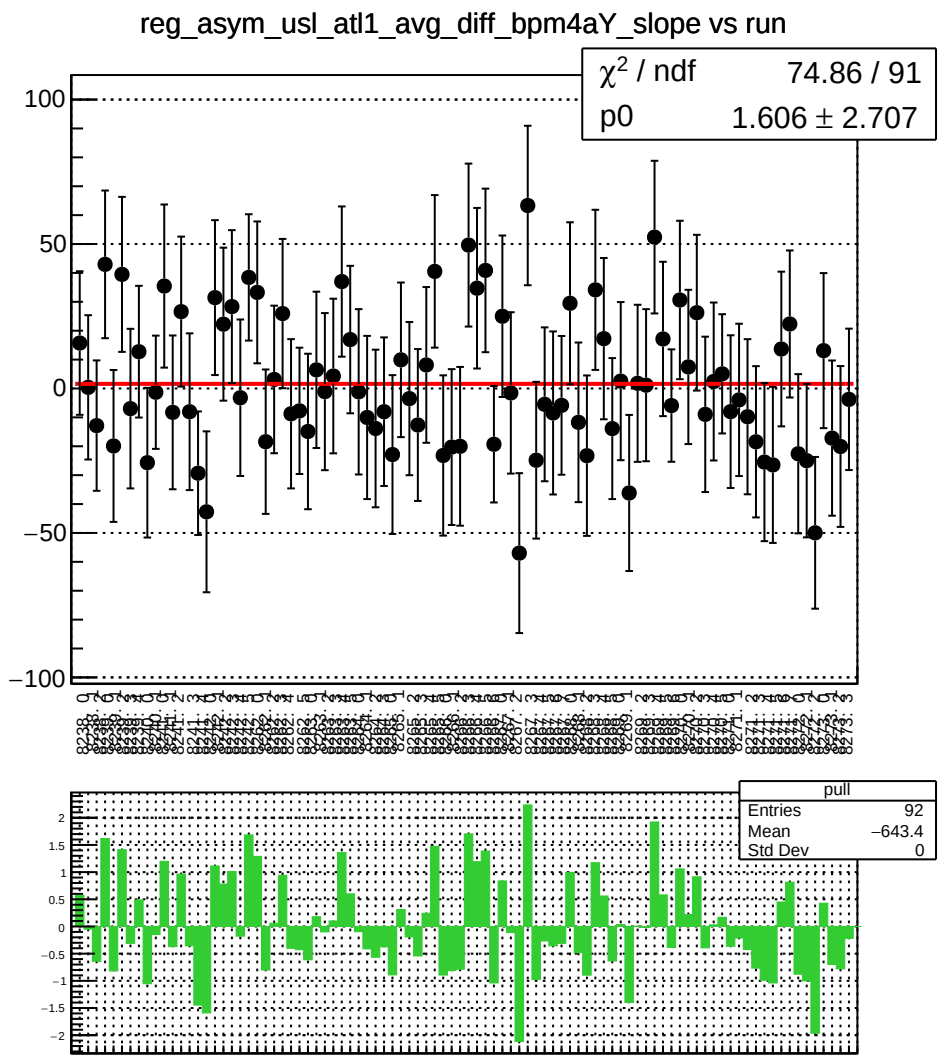

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.97 / 91
p0 57.89 ± 1.61
pull
Entries 92
Mean 102.8
Std Dev 21.75
pull1D
Entries 92
Mean −0.002774
Std Dev 0.6424

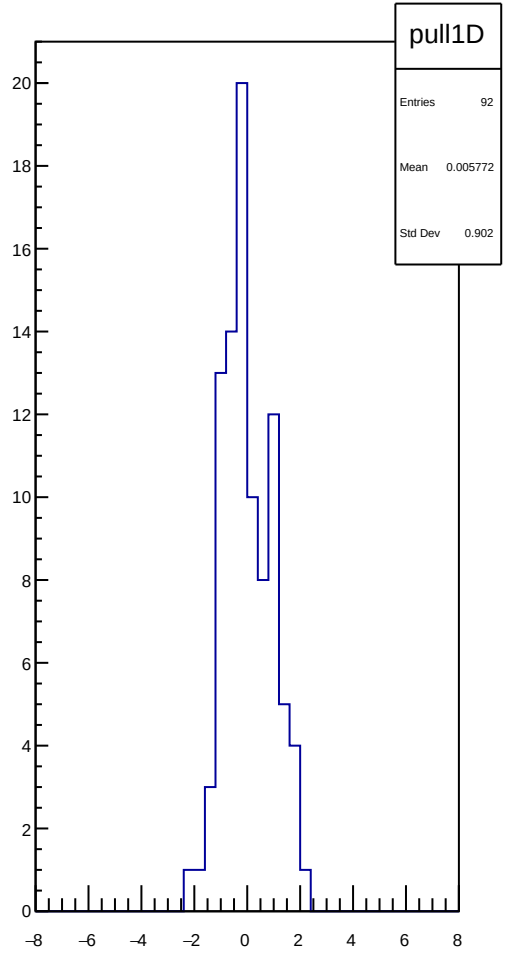

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 50.72 / 91
p0 −10.75 ± 3.13
pull
Entries 92
Mean −467.5
Std Dev 0

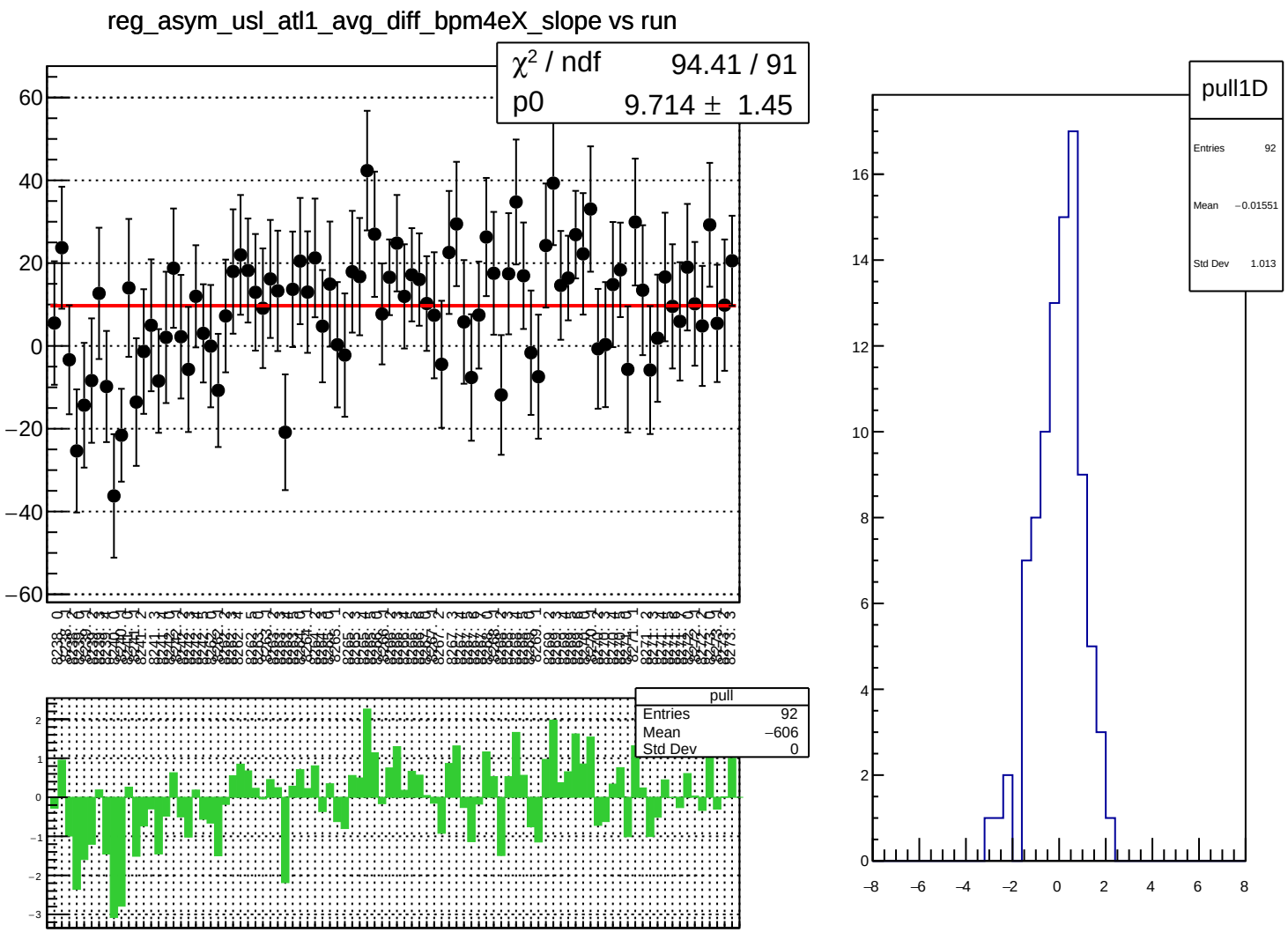

pull1D
Entries 92
Mean −0.007016
Std Dev 0.7424

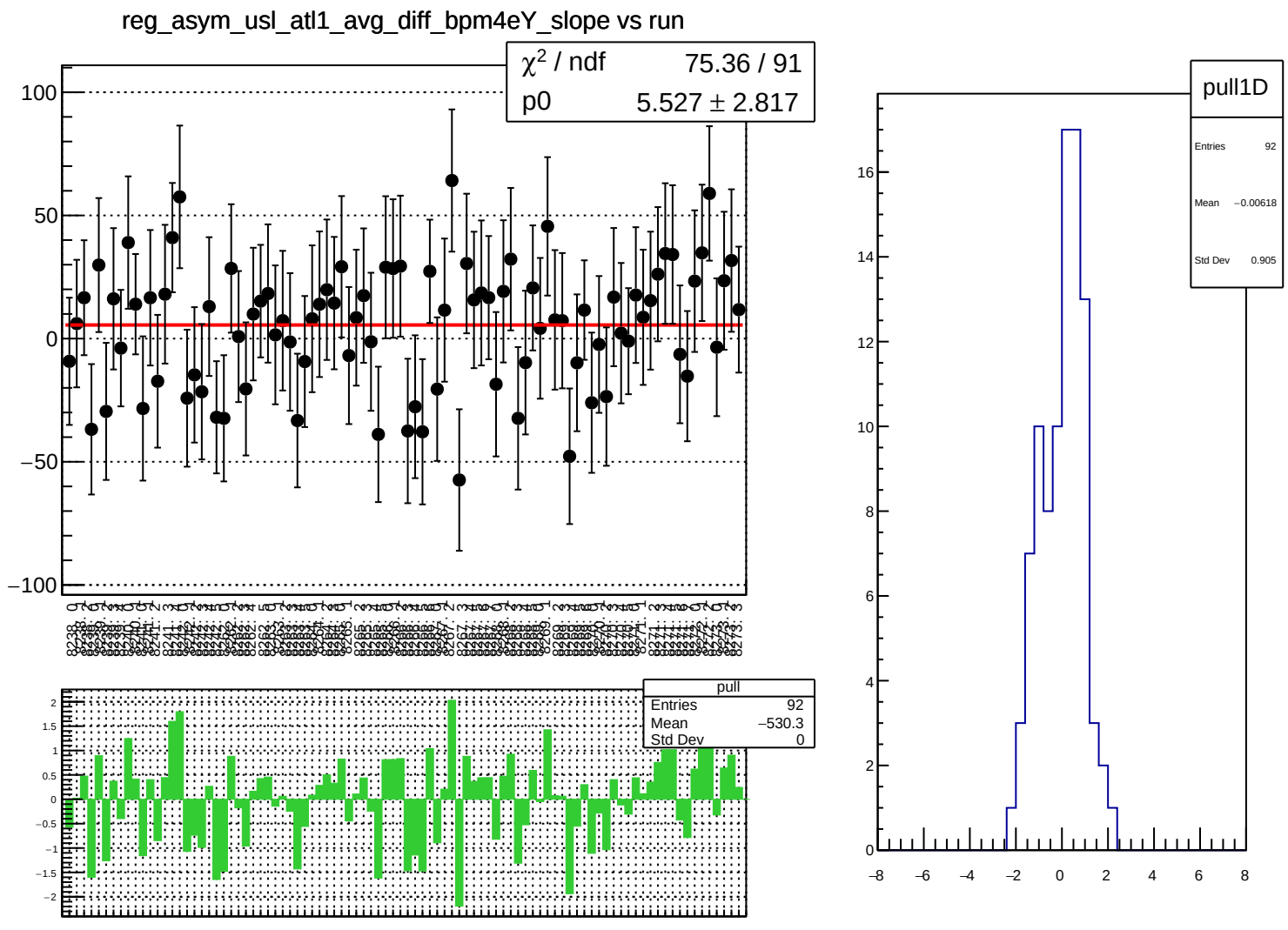

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 38.59 / 91
p0 3.62 ± 0.1693
pull
Entries 92
Mean −116.1
Std Dev 0
pull1D
Entries 92
Mean −0.01517
Std Dev 0.6474

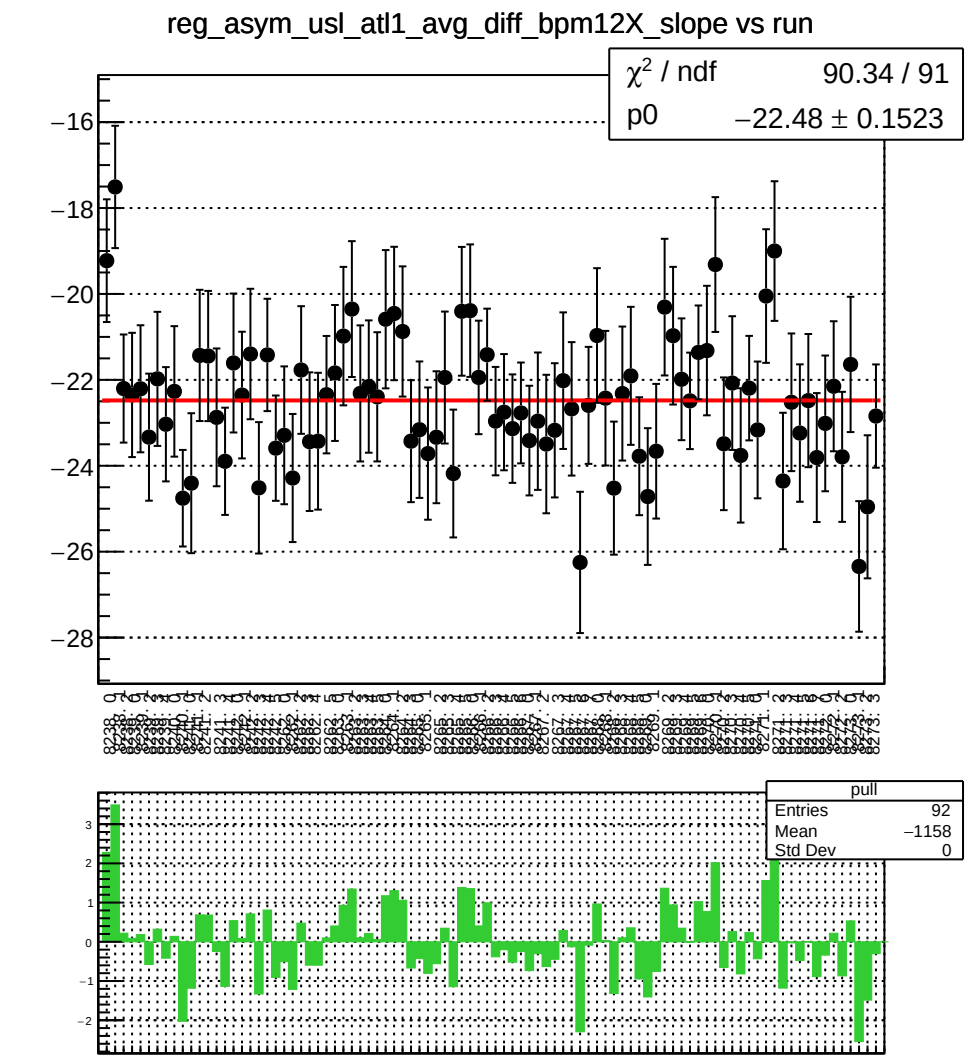

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 97.27 / 91
p0 −24.11 ± 1.274
pull
Entries 92
Mean −968.7
Std Dev 0
pull1D
Entries 92
Mean 0.01049
Std Dev 1.028

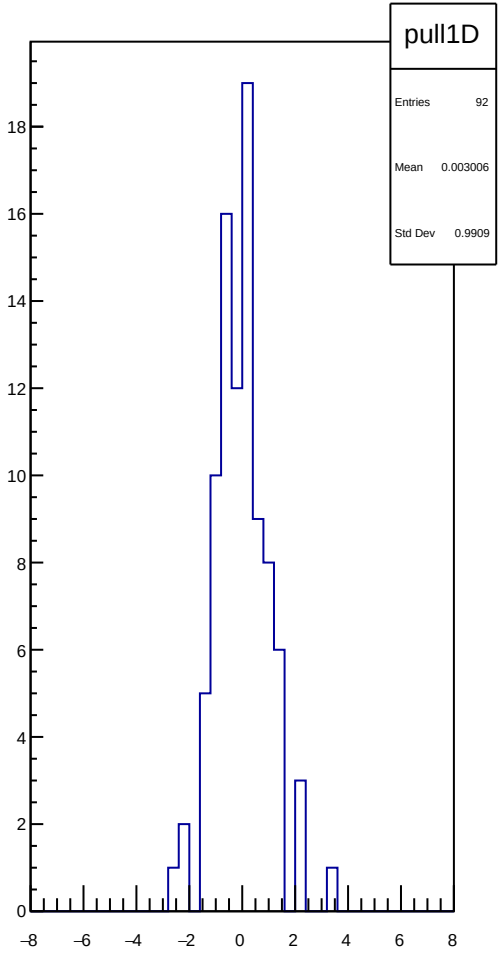

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 74.86 / 91
p0 1.606 ± 2.707
100
50
0
−50
−100
pull
Entries 92
Mean −643.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

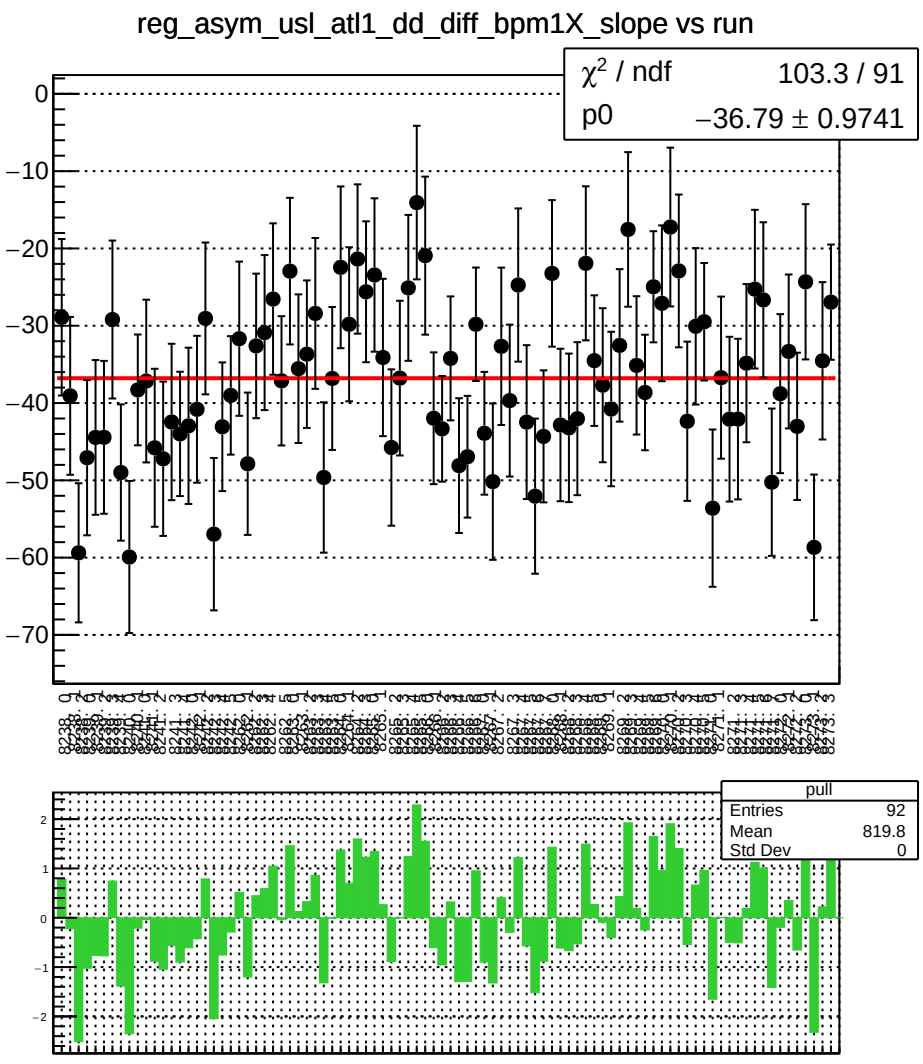

pull1D
Entries 92
Mean 0.005772
Std Dev 0.902
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

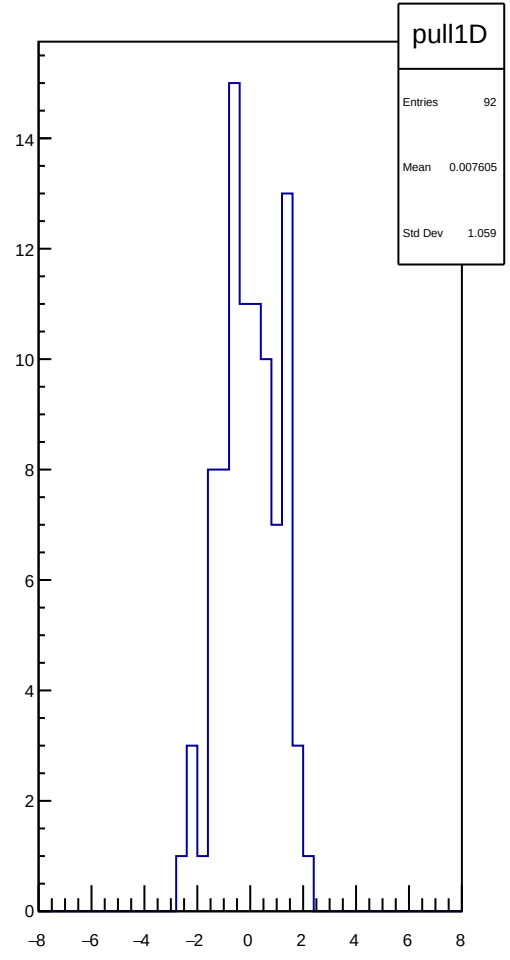

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 94.41 / 91
p0 9.714 ± 1.45
pull
Entries 92
Mean −606
Std Dev 0
pull1D
Entries 92
Mean −0.01551
Std Dev 1.013

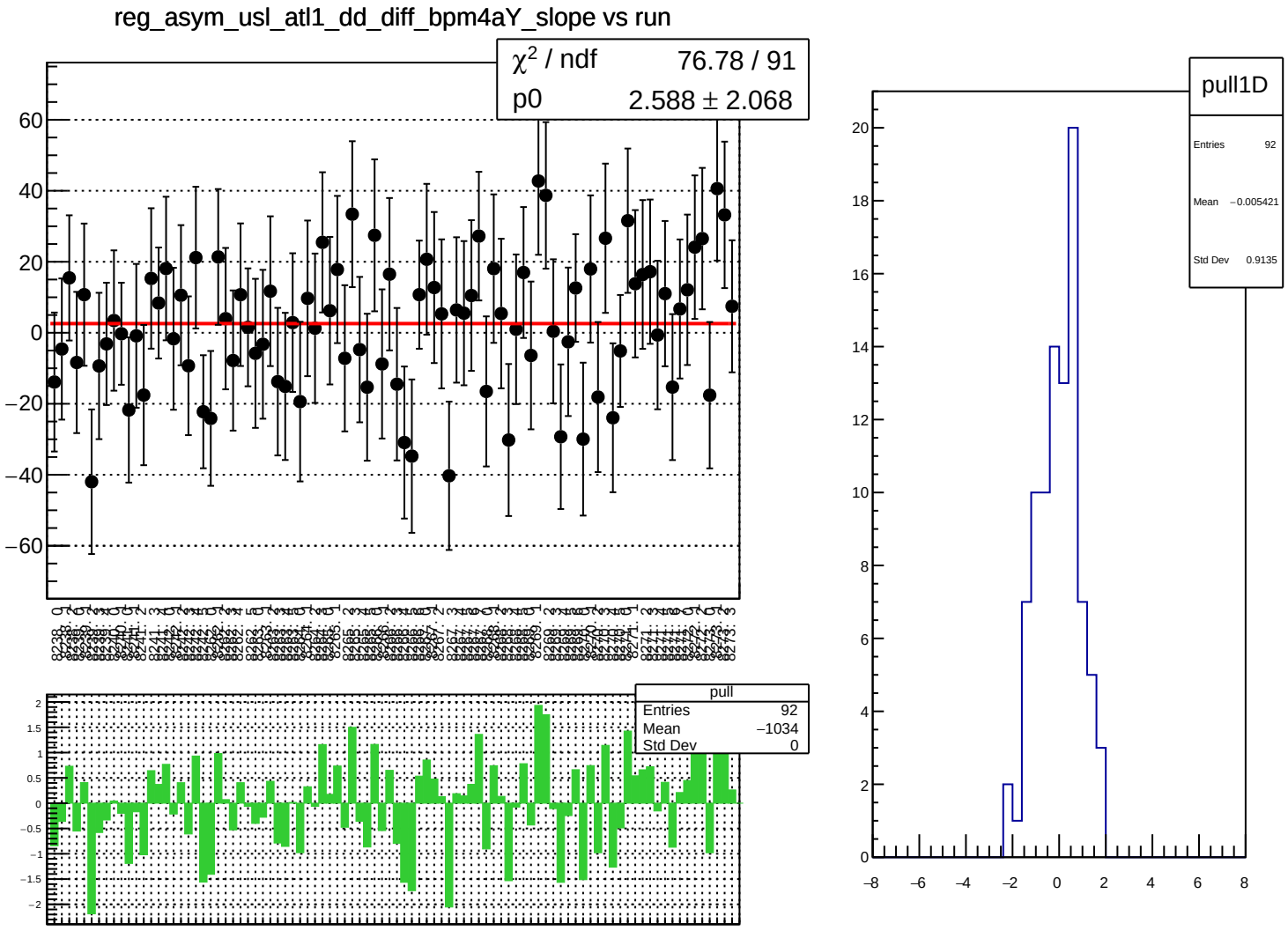

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 75.36 / 91
p0 5.527 ± 2.817
100
50
0
−50
−100
pull
Entries 92
Mean −530.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.00618
Std Dev 0.905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

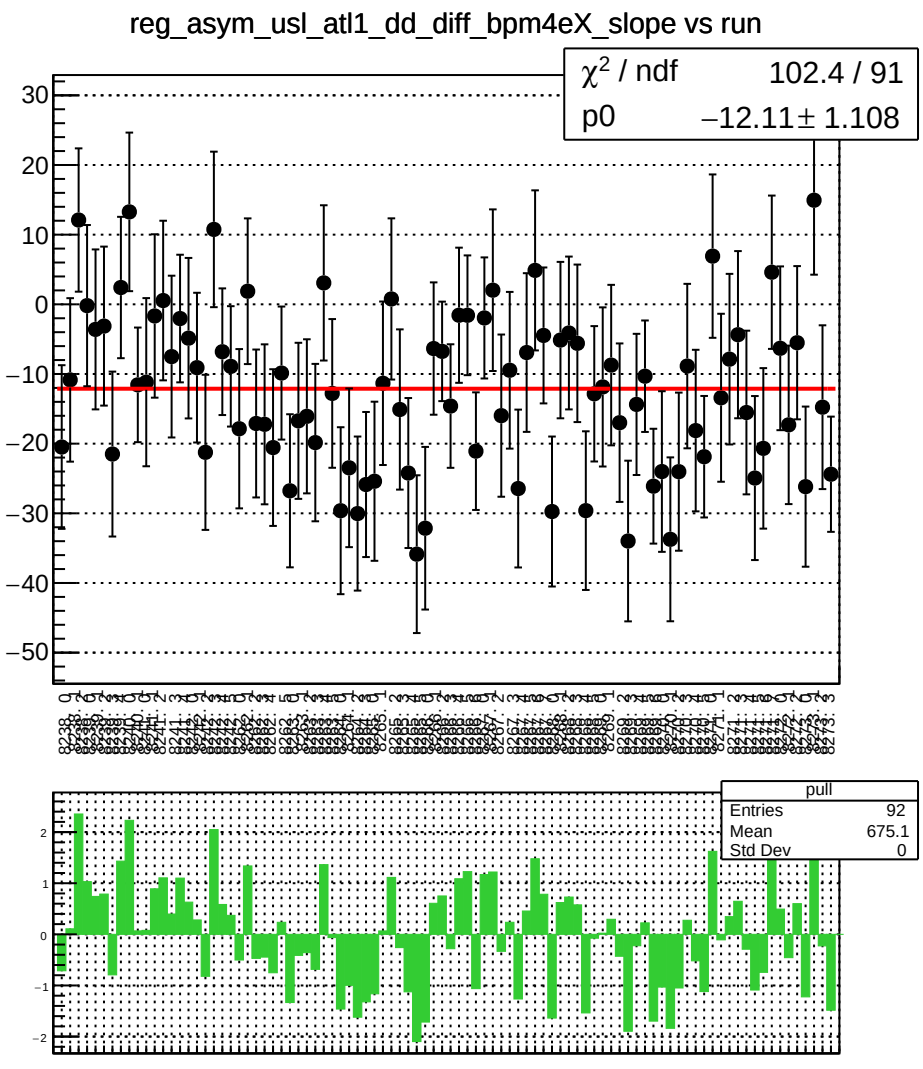

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 90.34 / 91
p0 −22.48 ± 0.1523
pull
Entries 92
Mean −1158
Std Dev 0

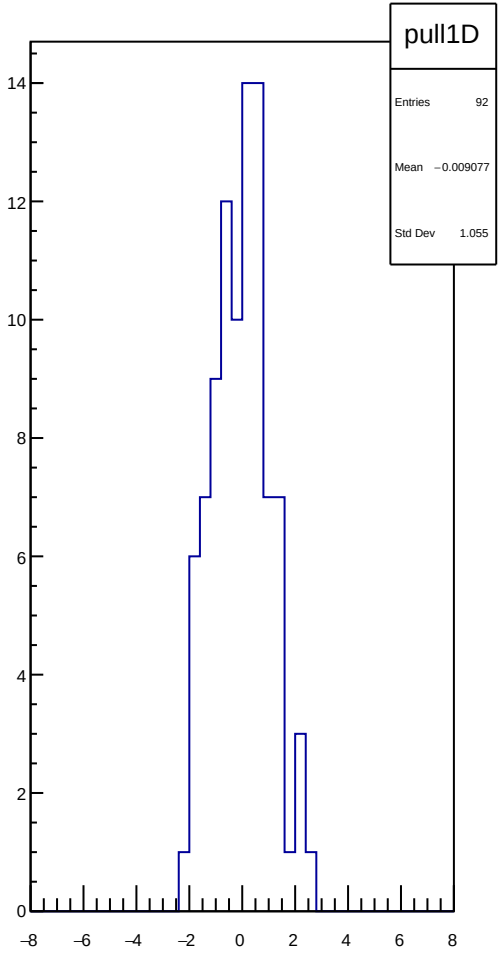

pull1D
Entries 92
Mean 0.003006
Std Dev 0.9909

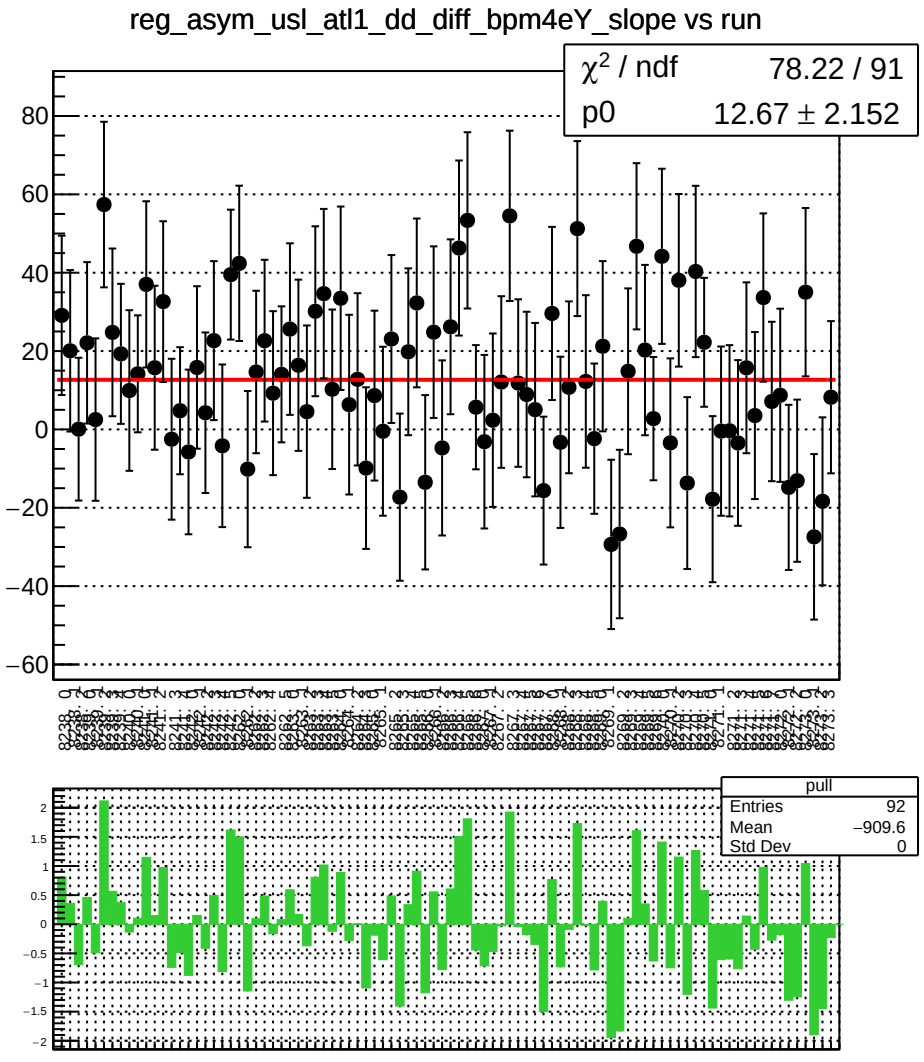

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 103.3 / 91
p0 −36.79 ± 0.9741
pull
Entries 92
Mean 819.8
Std Dev 0

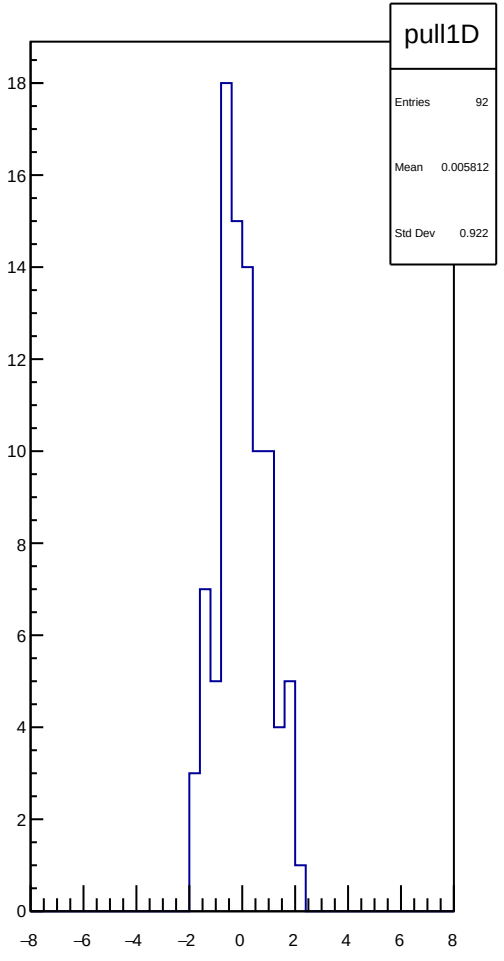

pull1D
Entries 92
Mean 0.007605
Std Dev 1.059

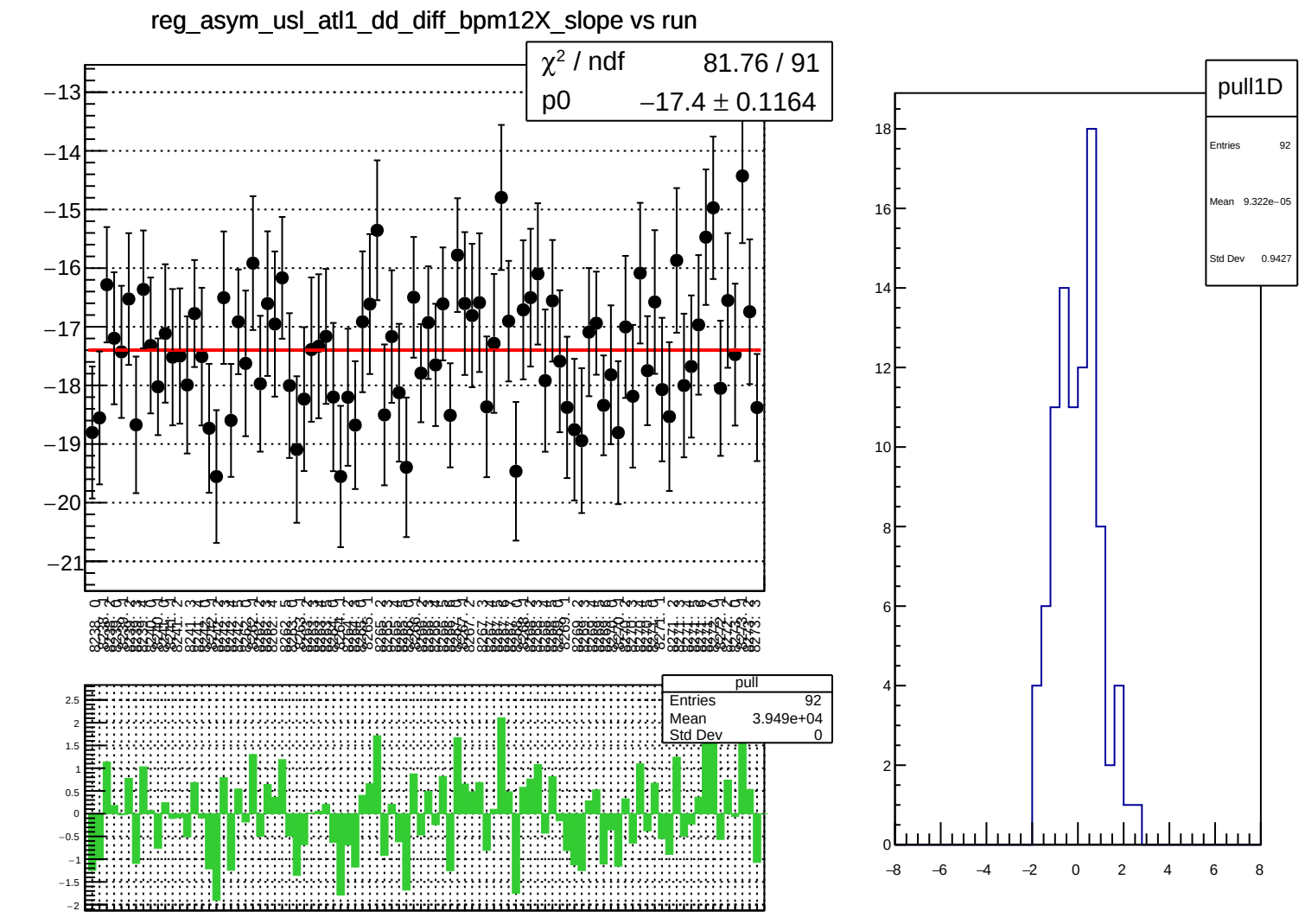

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 76.78 / 91
p0 2.588 ± 2.068
pull
Entries 92
Mean −1034
Std Dev 0
pull1D
Entries 92
Mean −0.005421
Std Dev 0.9135

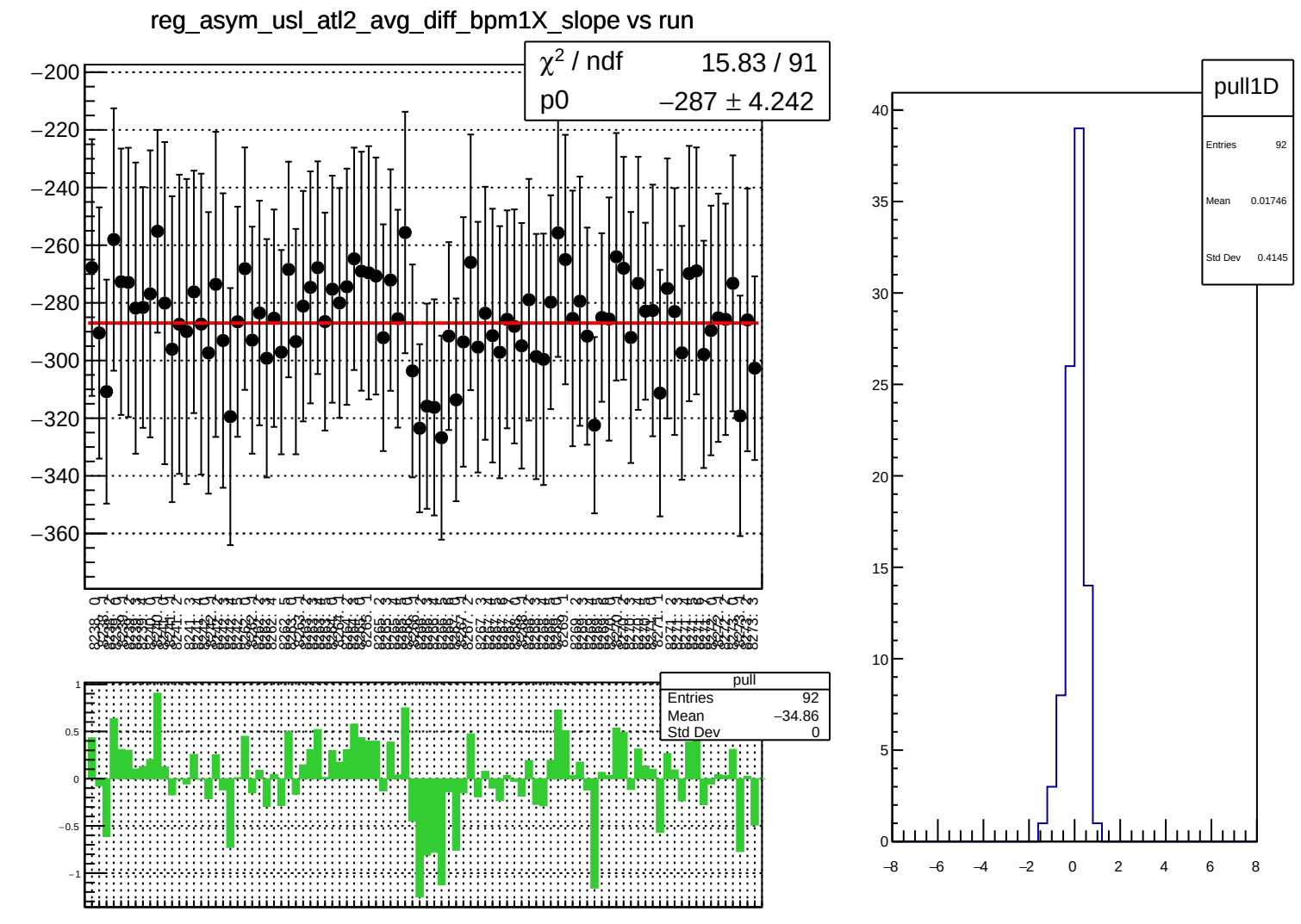

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 102.4 / 91
p0 −12.11± 1.108
pull
Entries 92
Mean 675.1
Std Dev 0

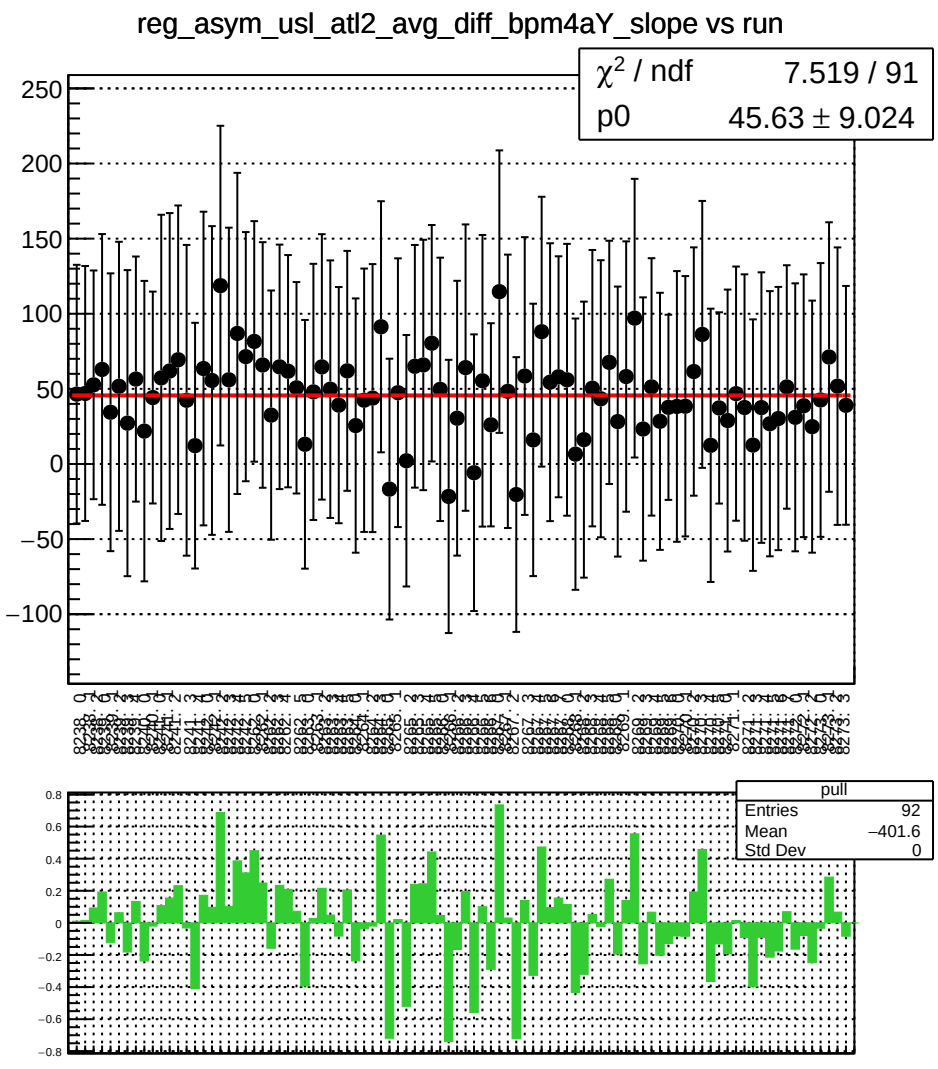

pull1D
Entries 92
Mean −0.009077
Std Dev 1.055

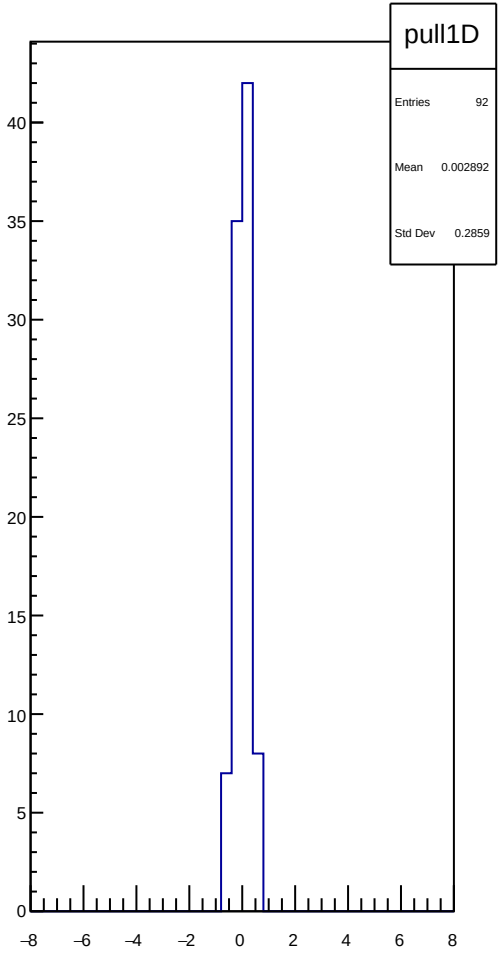

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.22 / 91
p0 12.67 ± 2.152
pull
Entries 92
Mean −909.6
Std Dev 0

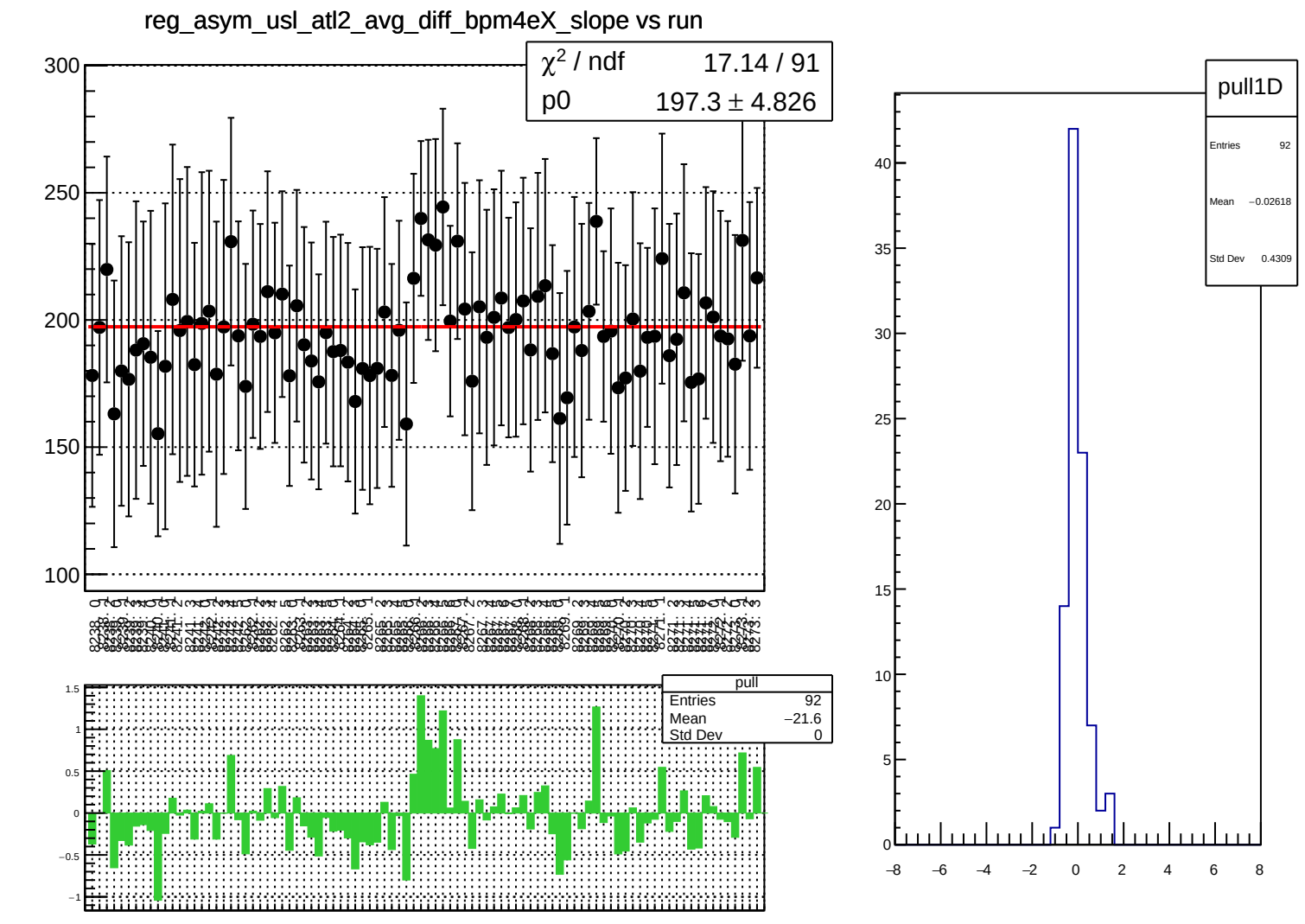

pull1D
Entries 92
Mean 0.005812
Std Dev 0.922

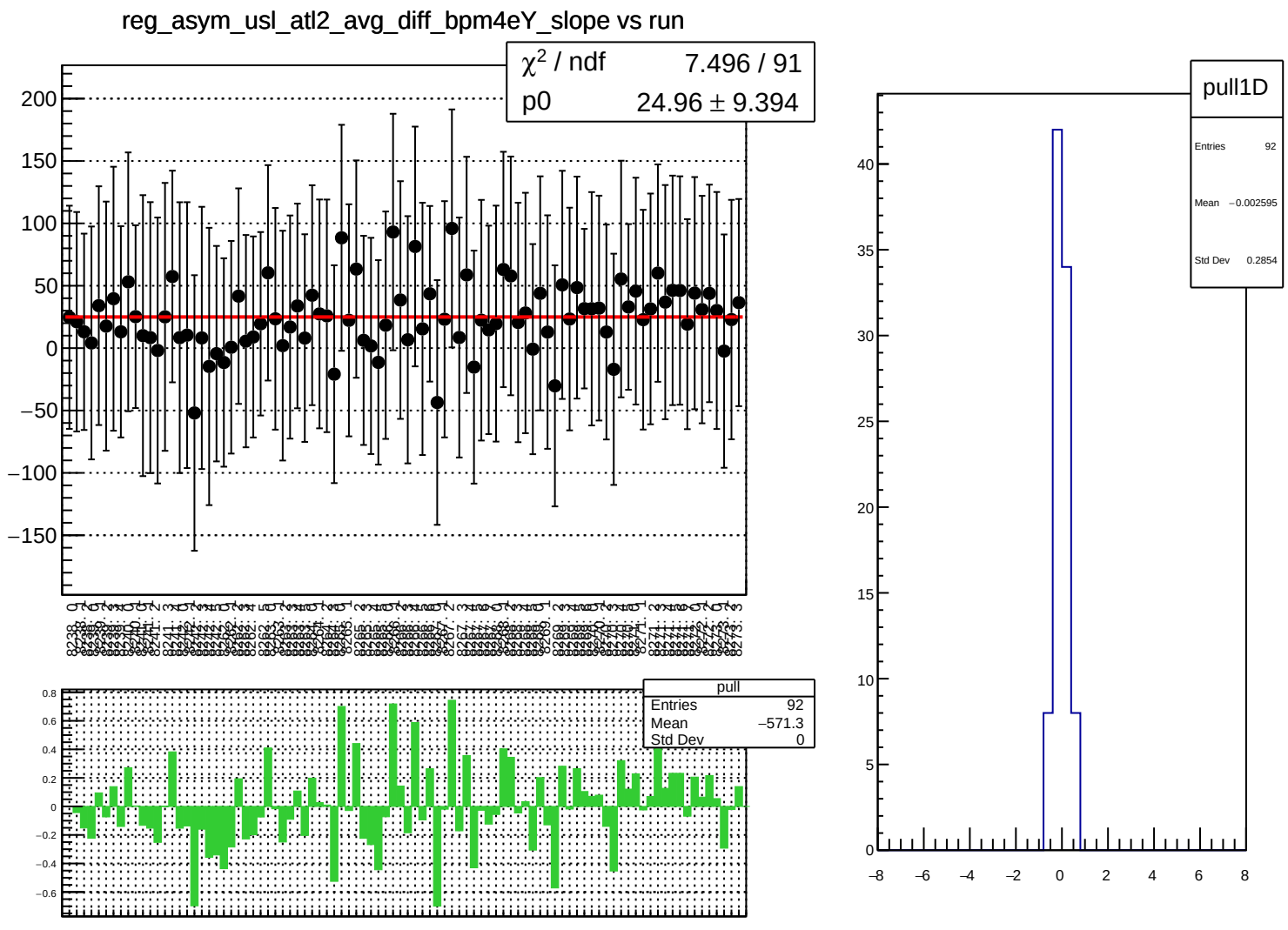

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 81.76 / 91
p0 −17.4 ± 0.1164
pull
Entries 92
Mean 3.949e+04
Std Dev 0
pull1D
Entries 92
Mean 9.322e−05
Std Dev 0.9427

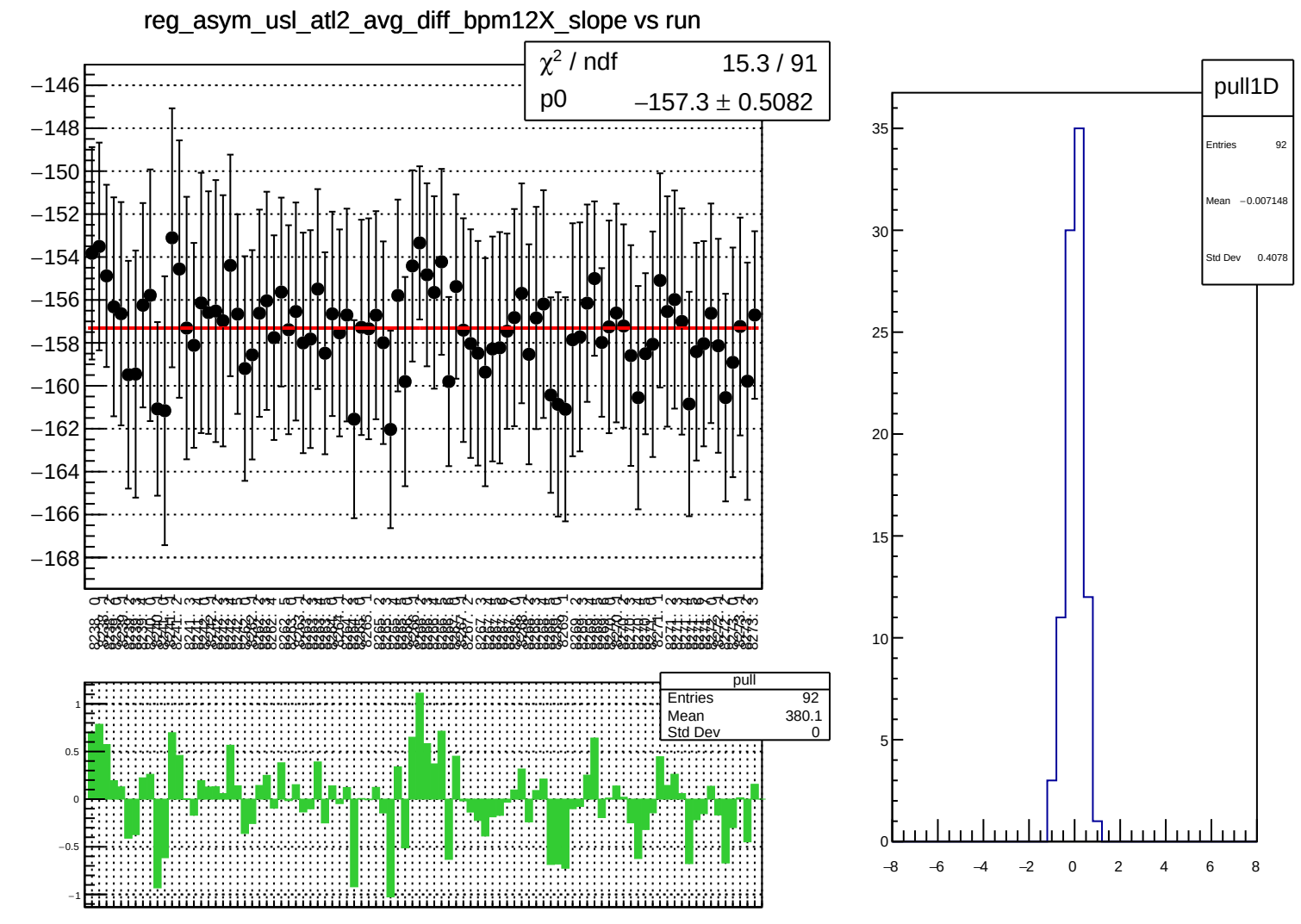

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 15.83 / 91
p0 −287 ± 4.242
pull
Entries 92
Mean −34.86
Std Dev 0
pull1D
Entries 92
Mean 0.01746
Std Dev 0.4145

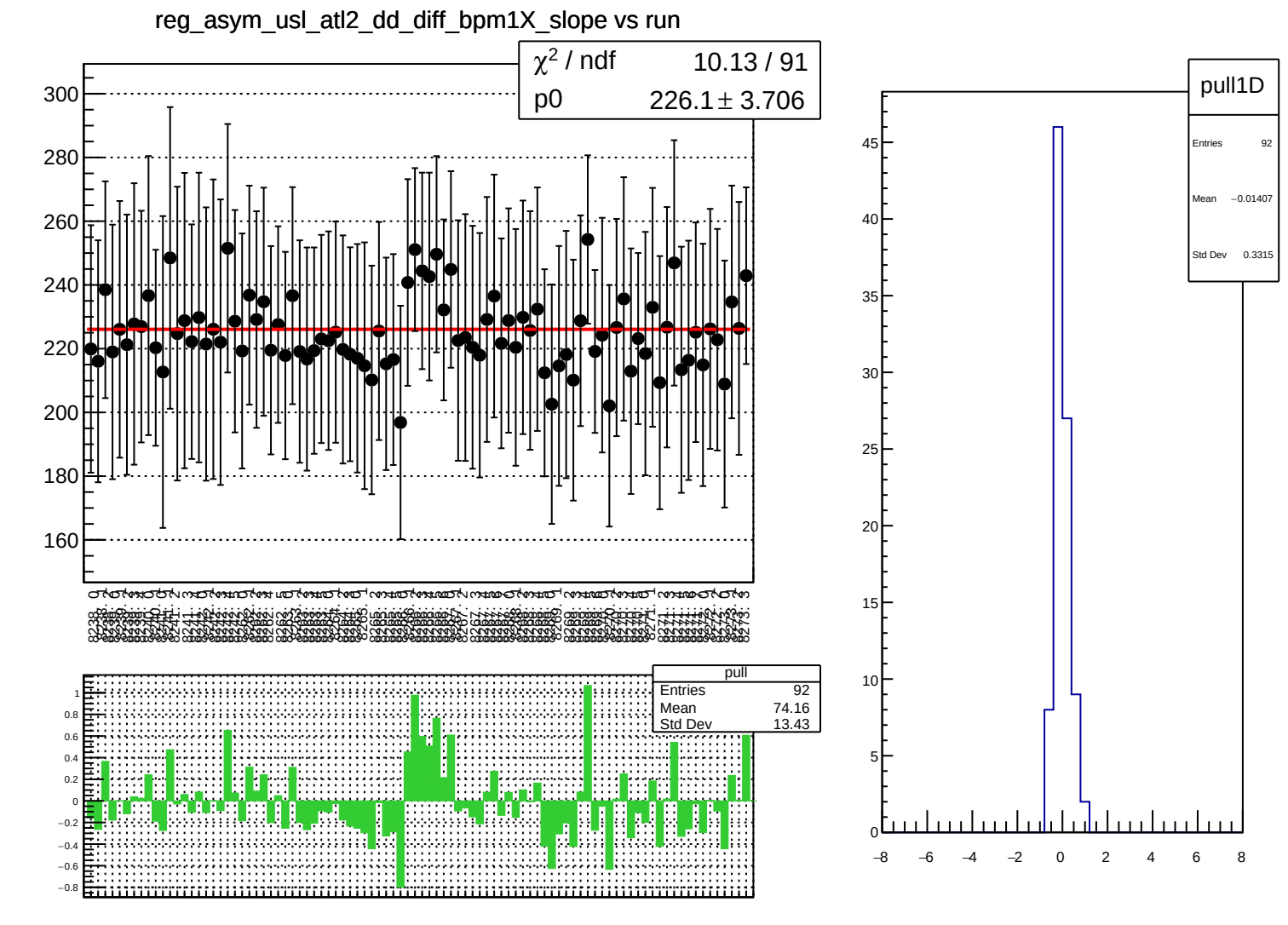

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.519 / 91
p0 45.63 ± 9.024
pull
Entries 92
Mean −401.6
Std Dev 0

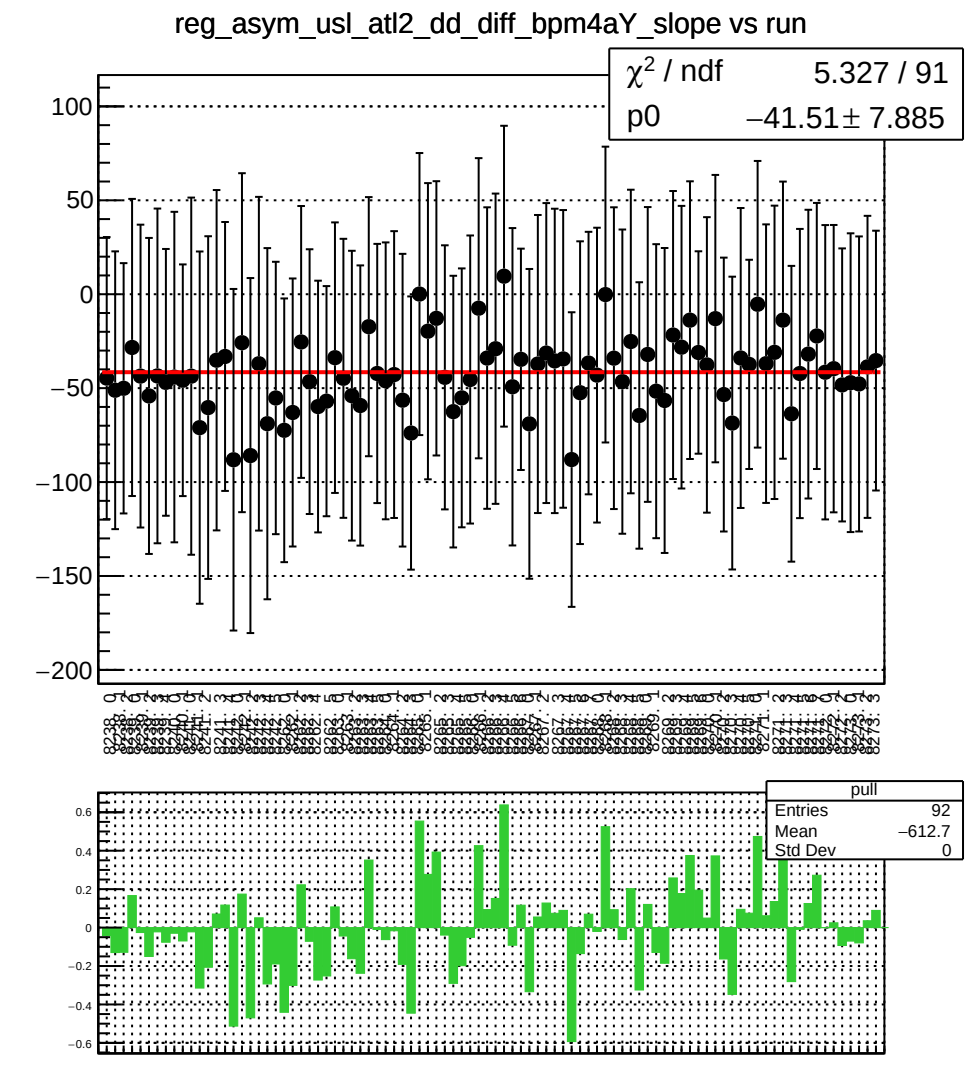

pull1D
Entries 92
Mean 0.002892
Std Dev 0.2859

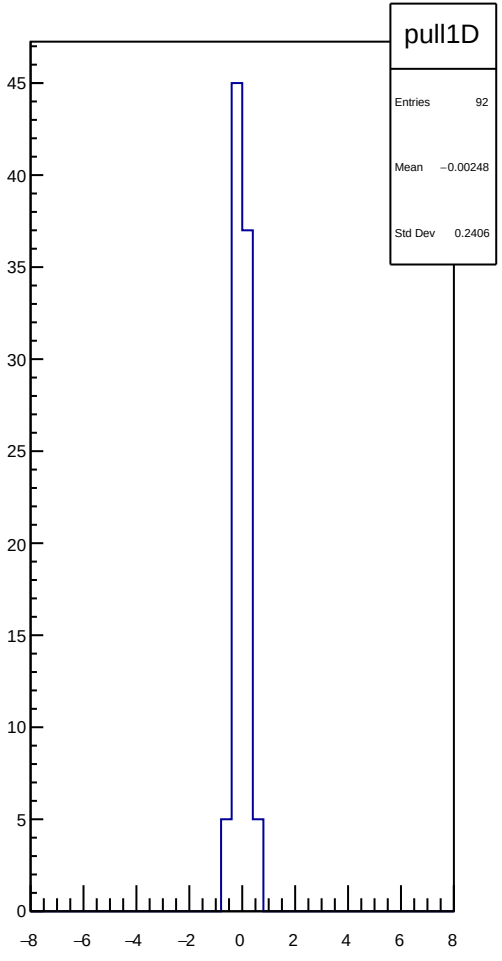

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.14 / 91
p0 197.3 ± 4.826
300
250
200
150
100
pull
Entries 92
Mean −21.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.02618
Std Dev 0.4309
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

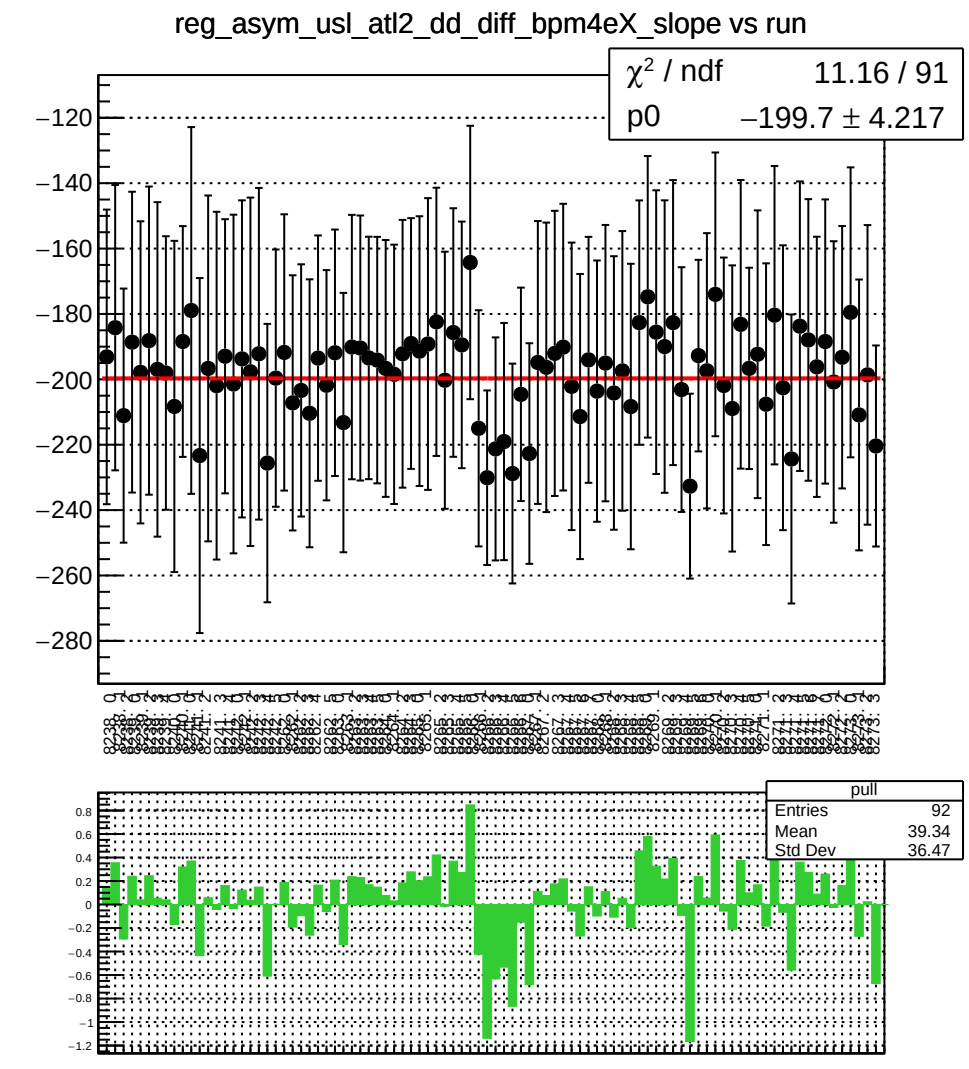

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.496 / 91
p0 24.96 ± 9.394
pull
Entries 92
Mean −571.3
Std Dev 0
pull1D
Entries 92
Mean −0.002595
Std Dev 0.2854

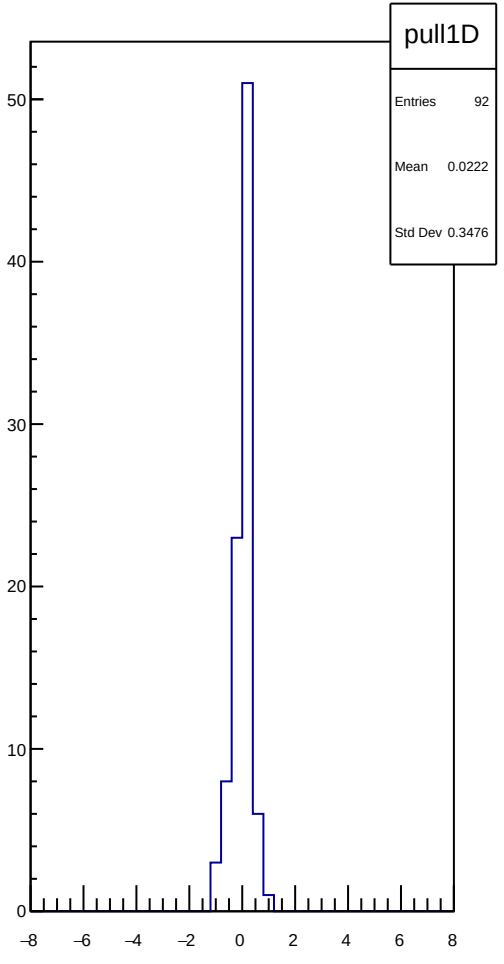

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 15.3 / 91
p0 −157.3 ± 0.5082
pull
Entries 92
Mean 380.1
Std Dev 0
pull1D
Entries 92
Mean −0.007148
Std Dev 0.4078

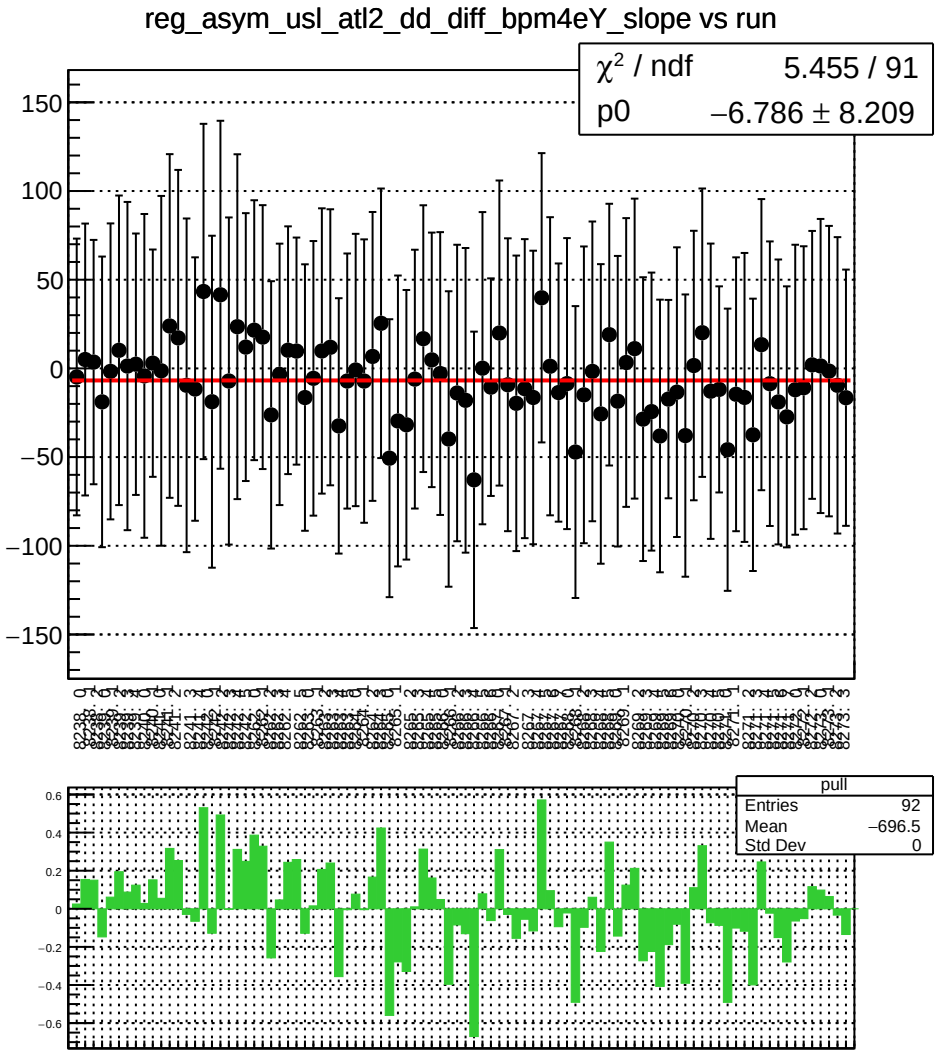

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 10.13 / 91
p0 226.1 ± 3.706
pull
Entries 92
Mean 74.16
Std Dev 13.43
pull1D
Entries 92
Mean −0.01407
Std Dev 0.3315

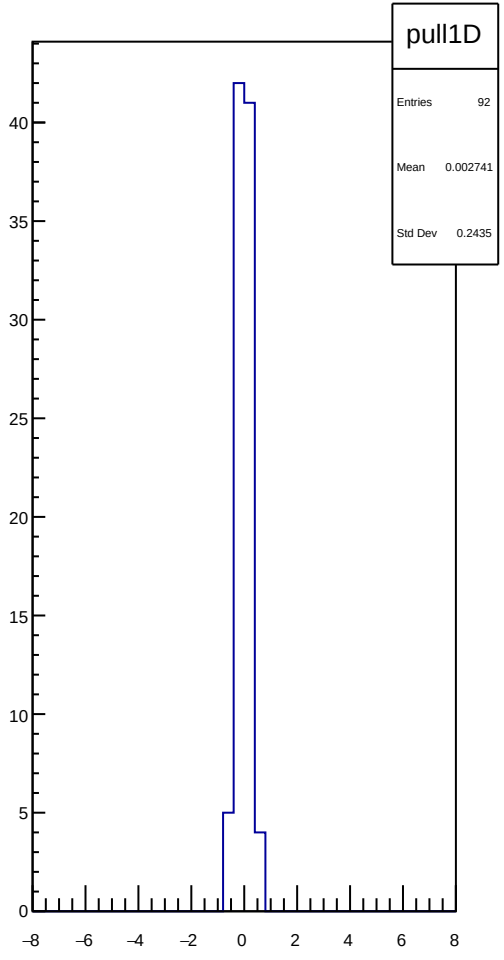

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.327 / 91
p0 −41.51± 7.885
pull
Entries 92
Mean −612.7
Std Dev 0

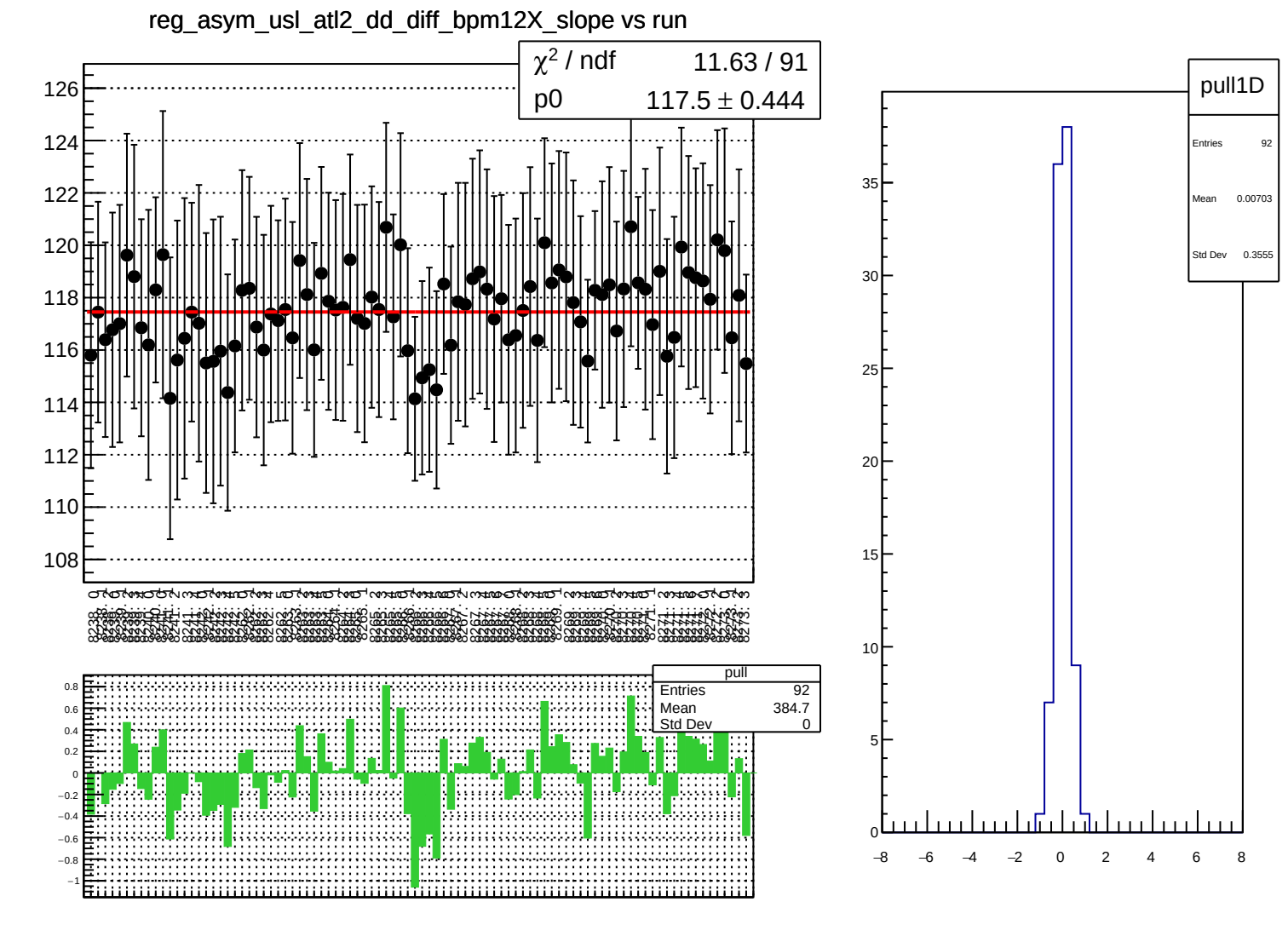

pull1D
Entries 92
Mean −0.00248
Std Dev 0.2406

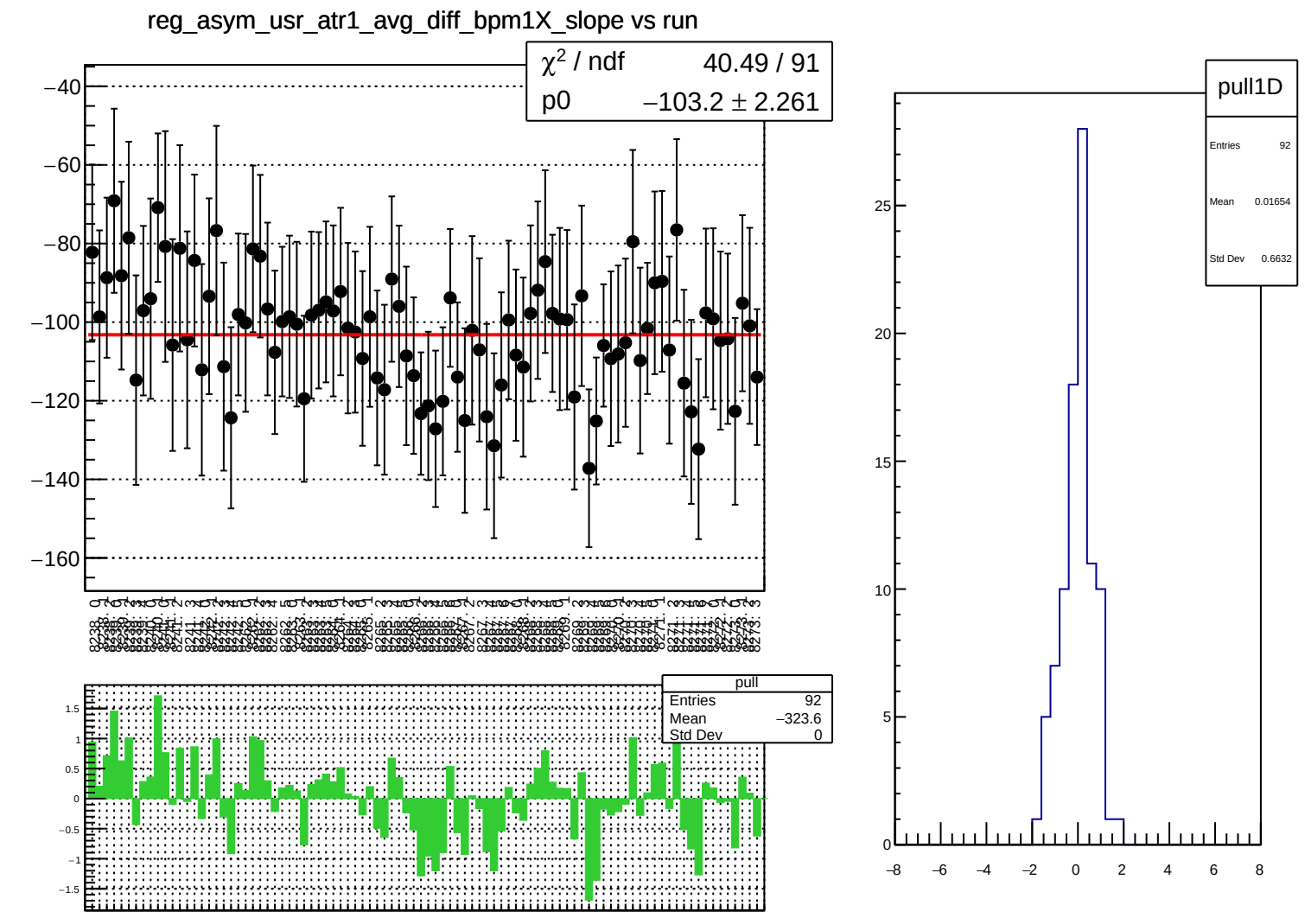

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.16 / 91
p0 −199.7 ± 4.217
pull
Entries 92
Mean 39.34
Std Dev 36.47

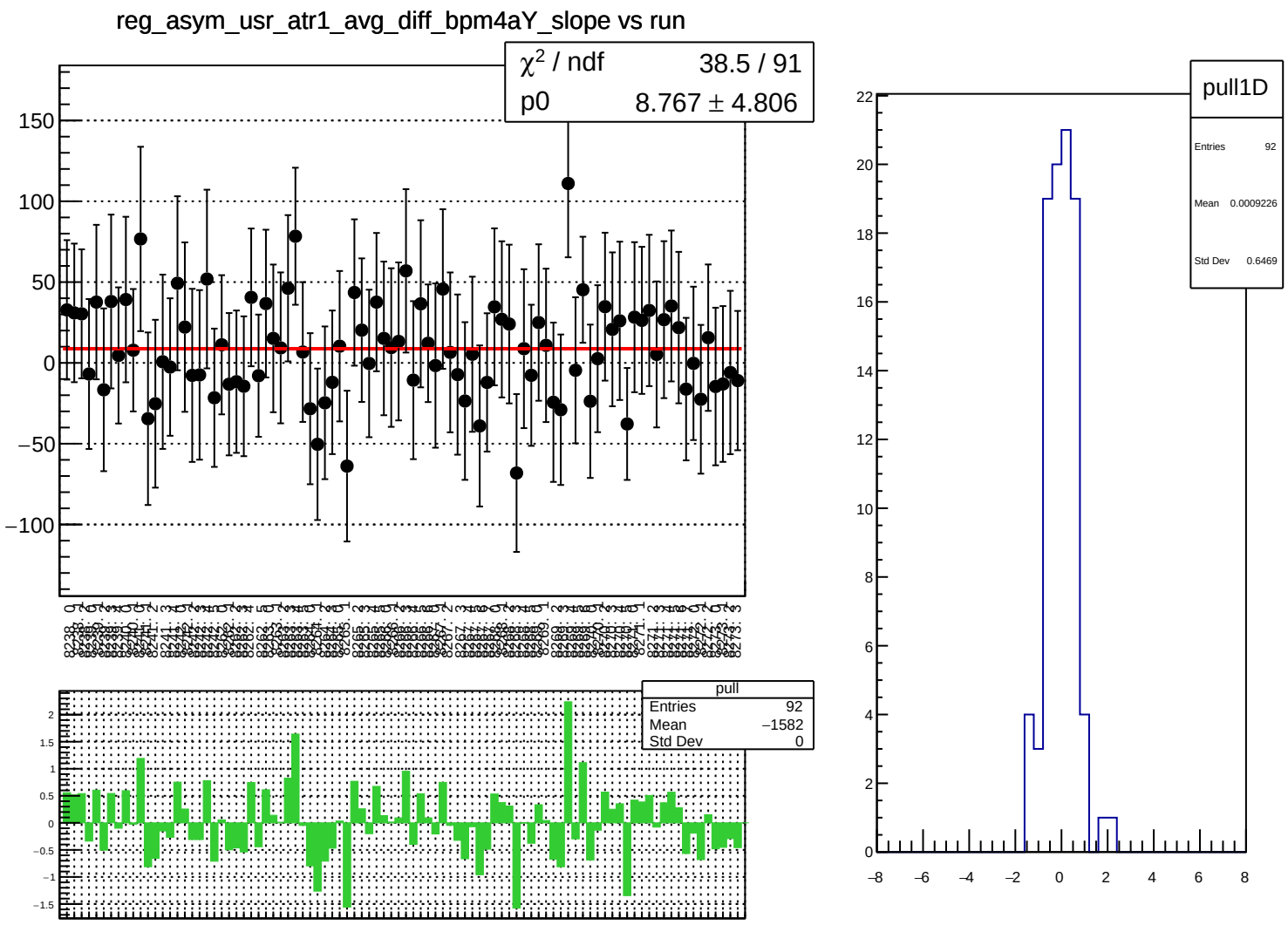

pull1D
Entries 92
Mean 0.0222
Std Dev 0.3476

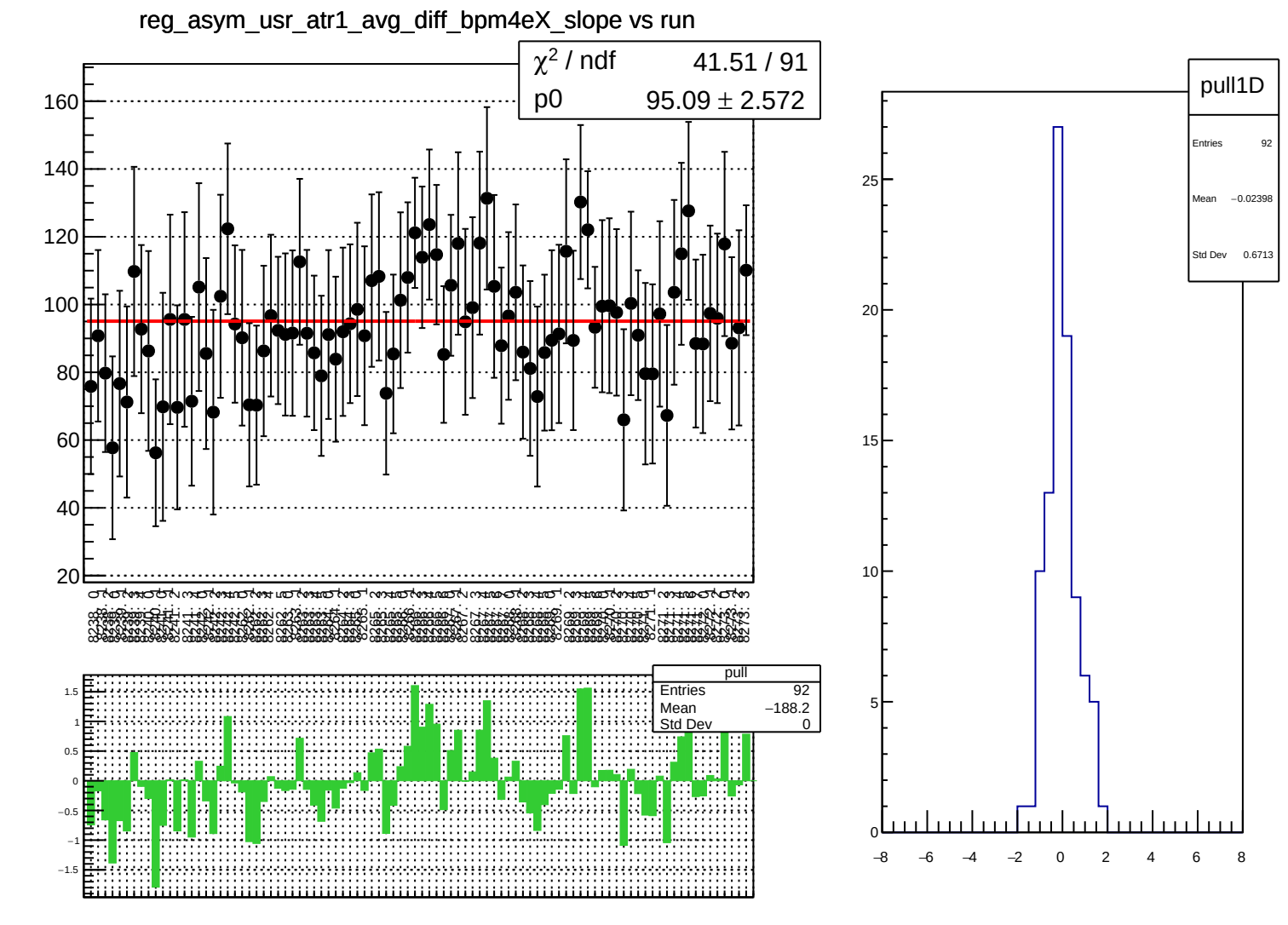

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.455 / 91
p0 −6.786 ± 8.209
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −696.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

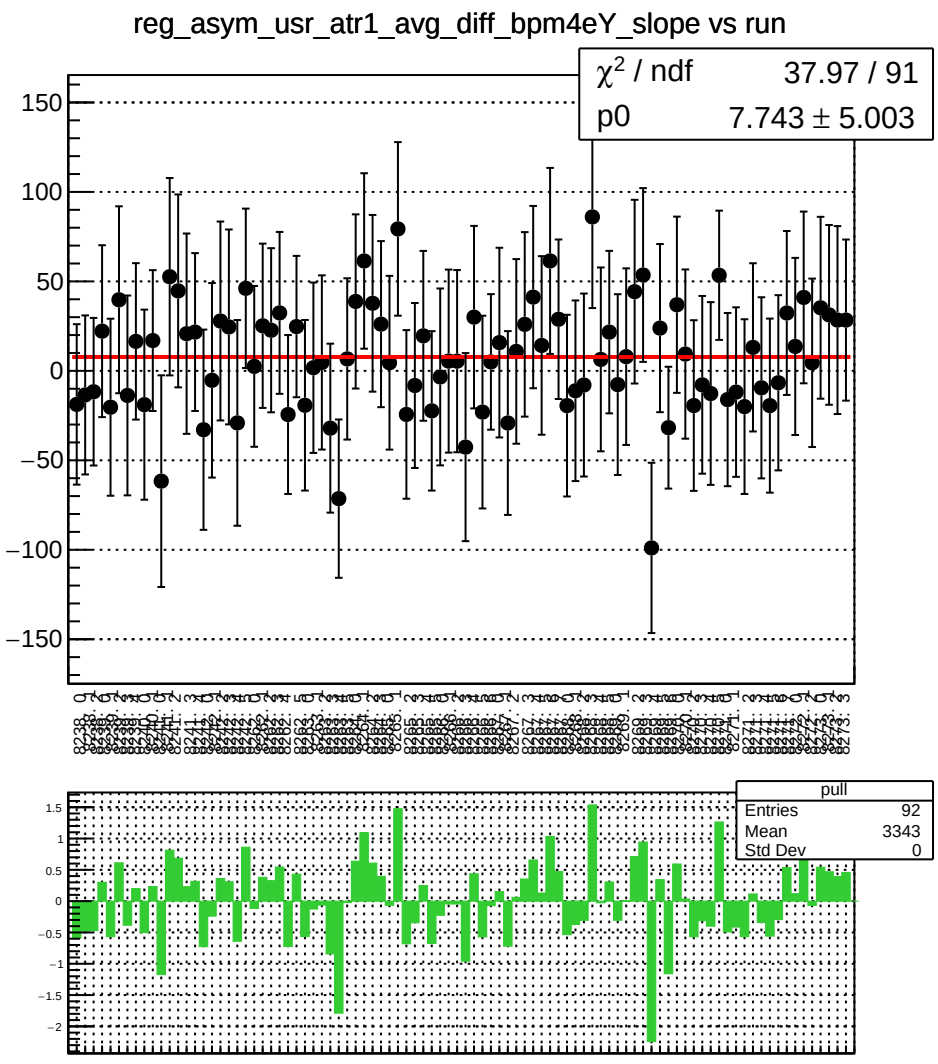

pull1D
Entries 92
Mean 0.002741
Std Dev 0.2435
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

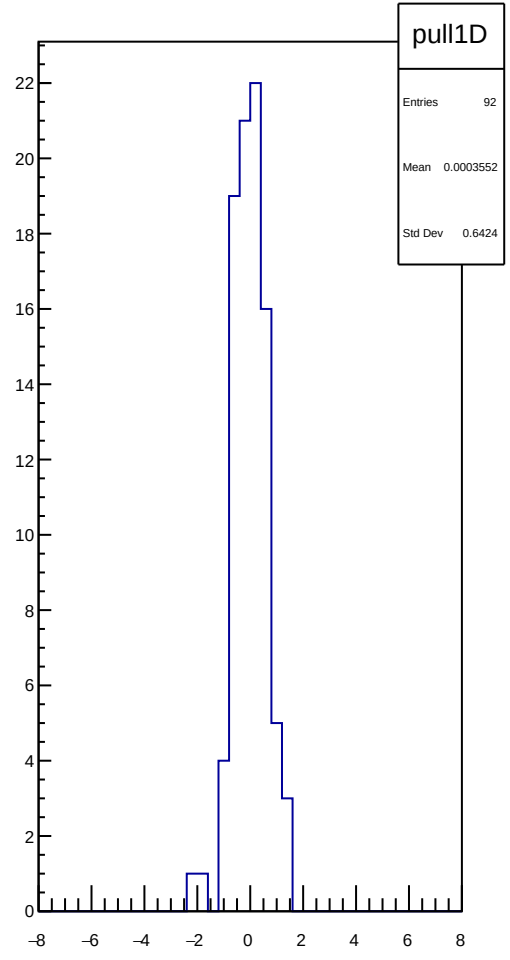

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 11.63 / 91
p0 117.5 ± 0.444
pull
Entries 92
Mean 384.7
Std Dev 0
pull1D
Entries 92
Mean 0.00703
Std Dev 0.3555

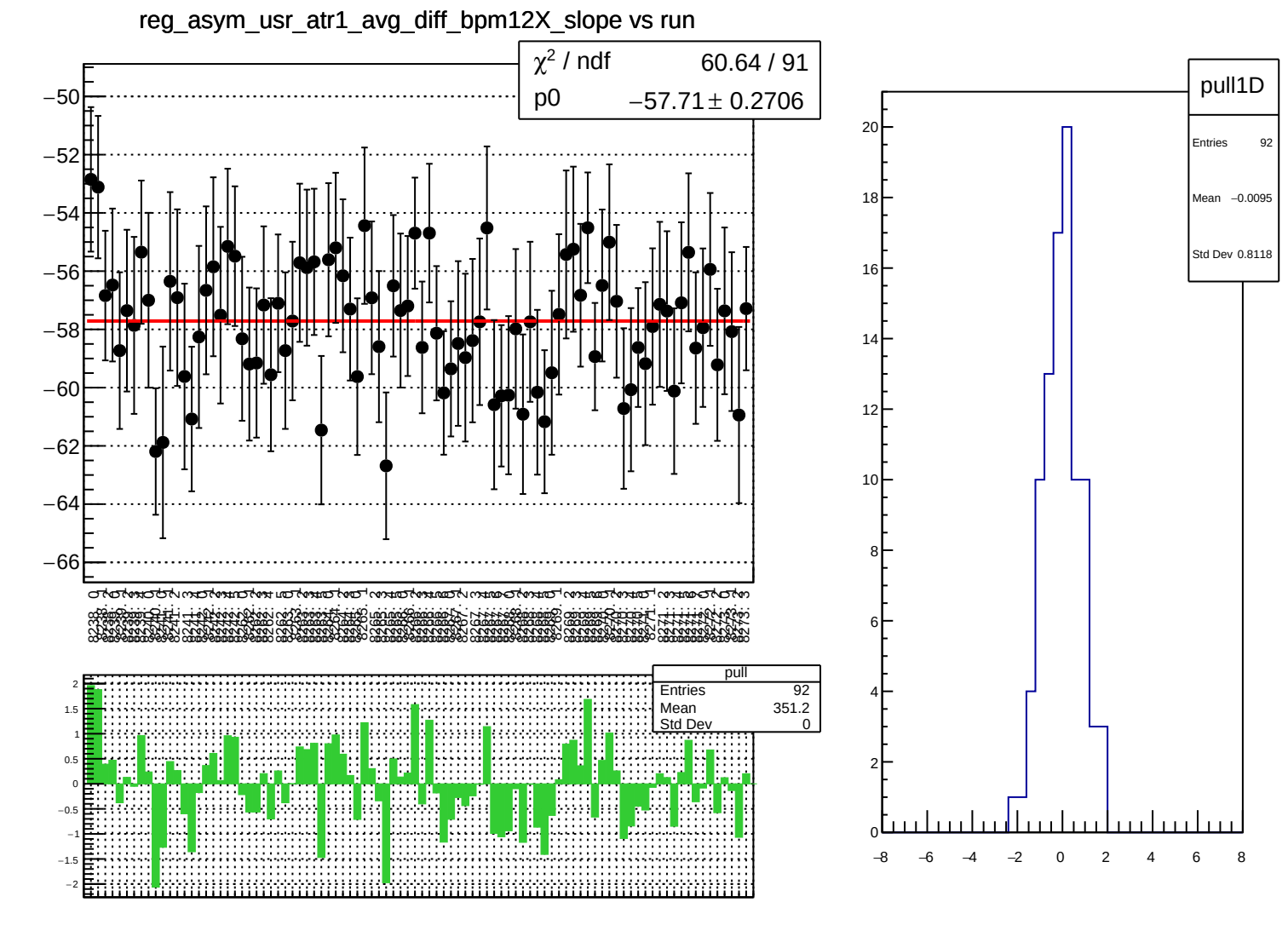

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 40.49 / 91
p0 −103.2 ± 2.261
pull
Entries 92
Mean −323.6
Std Dev 0
pull1D
Entries 92
Mean 0.01654
Std Dev 0.6632

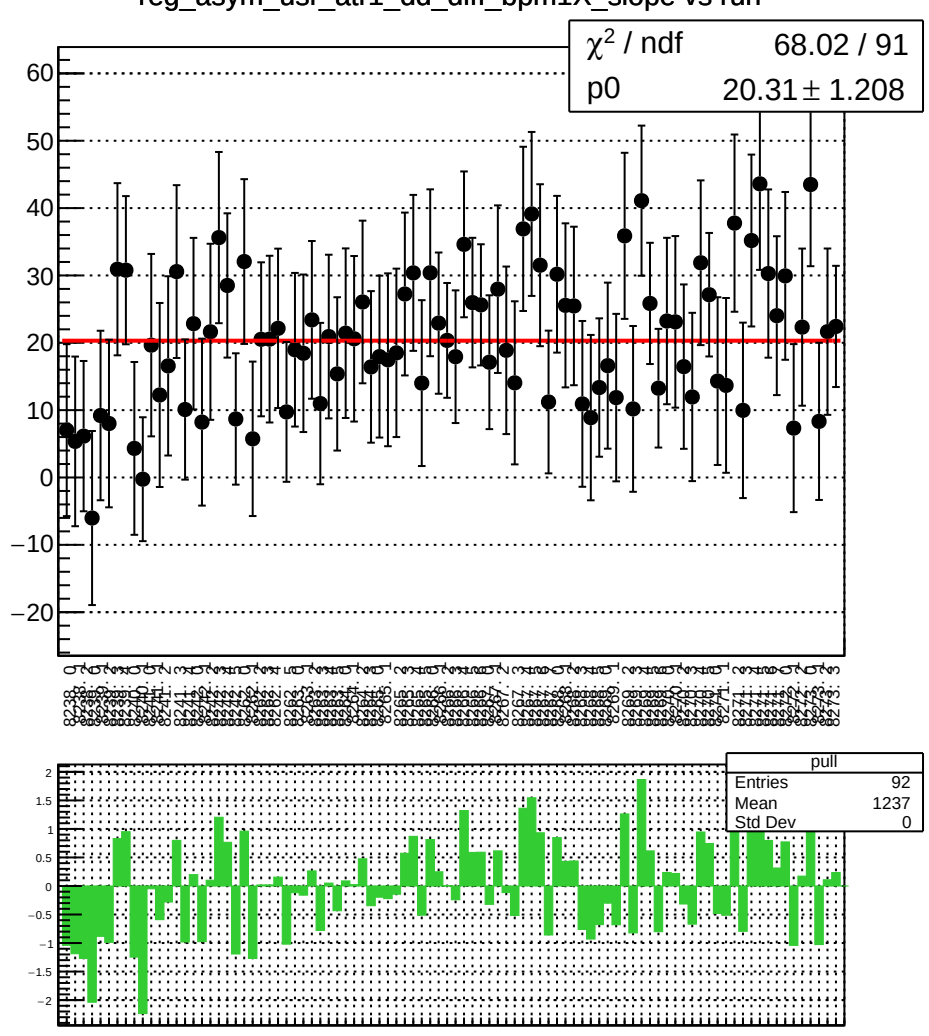

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 38.5 / 91
p0 8.767 ± 4.806
150
100
50
0
−50
−100
pull
Entries 92
Mean −1582
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean 0.0009226
Std Dev 0.6469
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

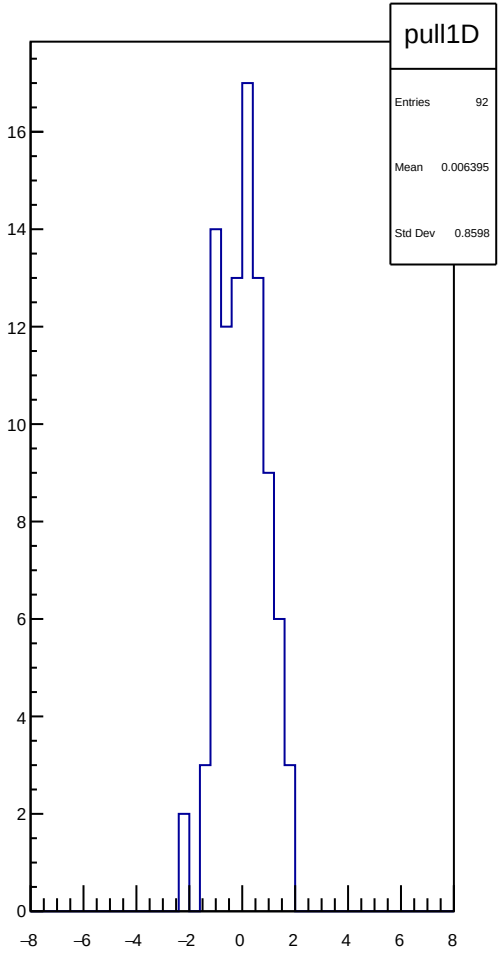

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.51 / 91
p0 95.09 ± 2.572
pull
Entries 92
Mean −188.2
Std Dev 0
pull1D
Entries 92
Mean −0.02398
Std Dev 0.6713

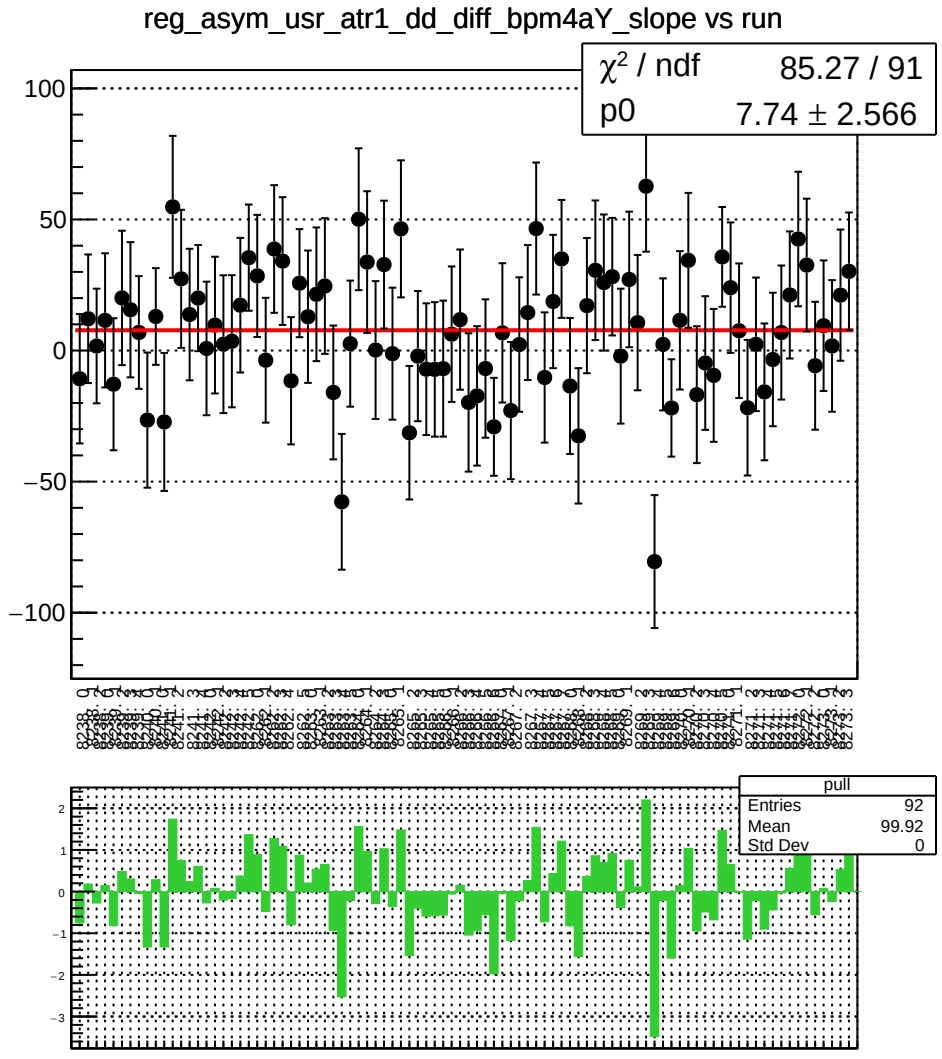

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.97 / 91
p0 7.743 ± 5.003
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 3343
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

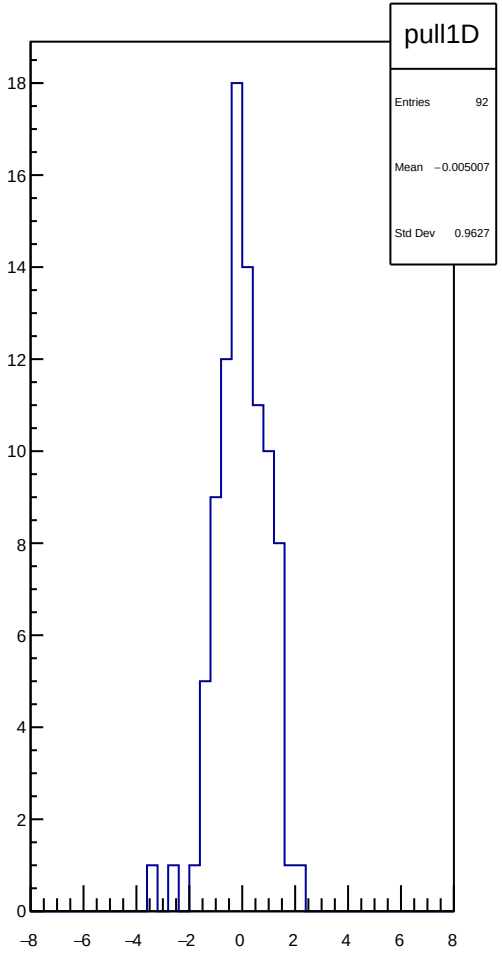

pull1D
Entries 92
Mean 0.0003552
Std Dev 0.6424
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

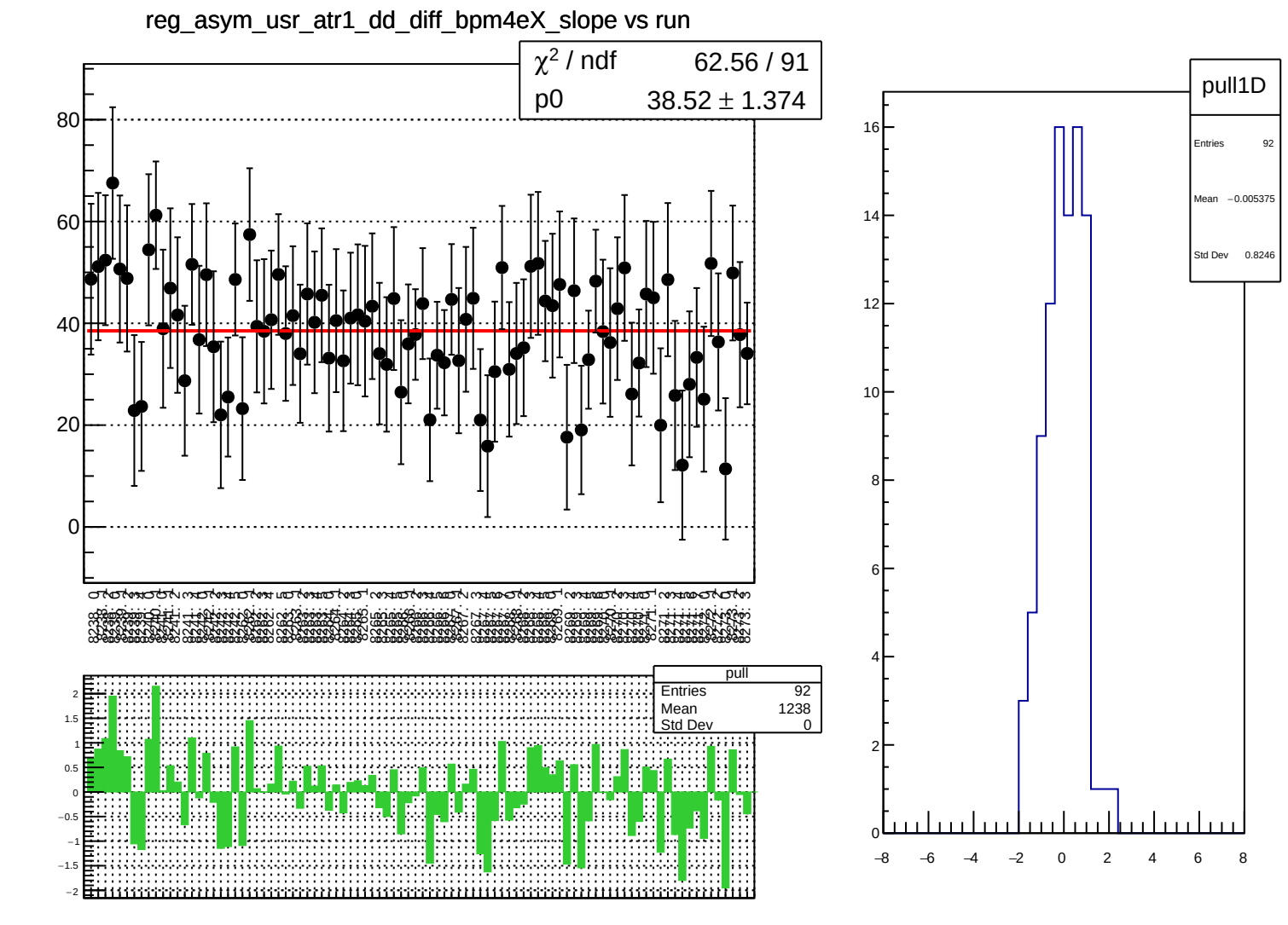

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 60.64 / 91
p0 −57.71 ± 0.2706
pull
Entries 92
Mean 351.2
Std Dev 0
pull1D
Entries 92
Mean −0.0095
Std Dev 0.8118

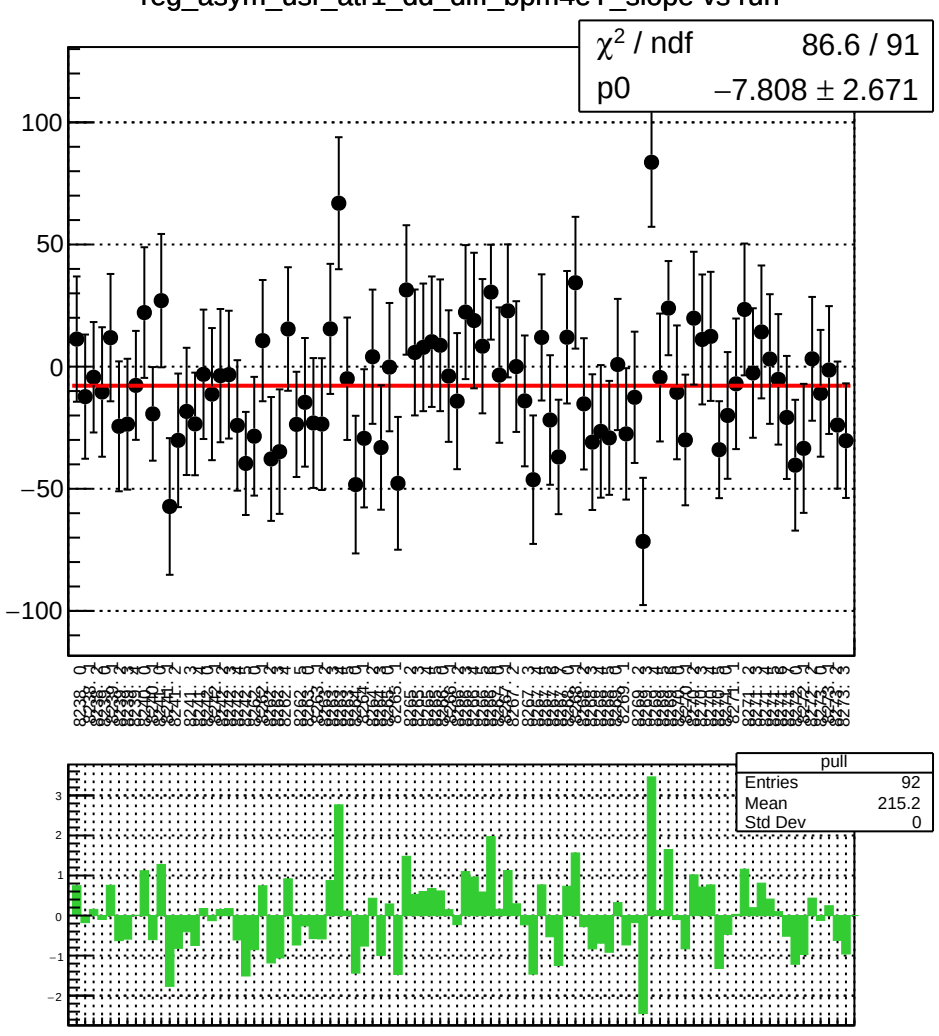

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 68.02 / 91
p0 20.31 ± 1.208
pull
Entries 92
Mean 1237
Std Dev 0

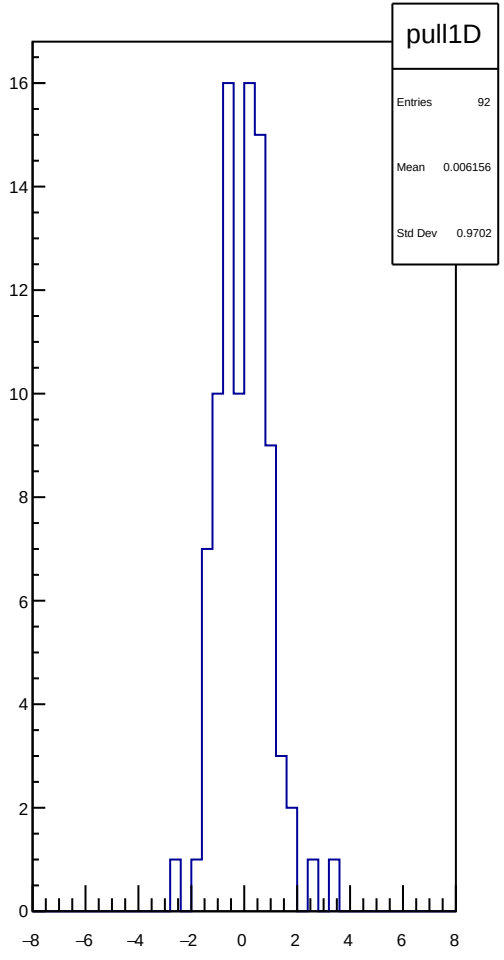

pull1D
Entries 92
Mean 0.006395
Std Dev 0.8598

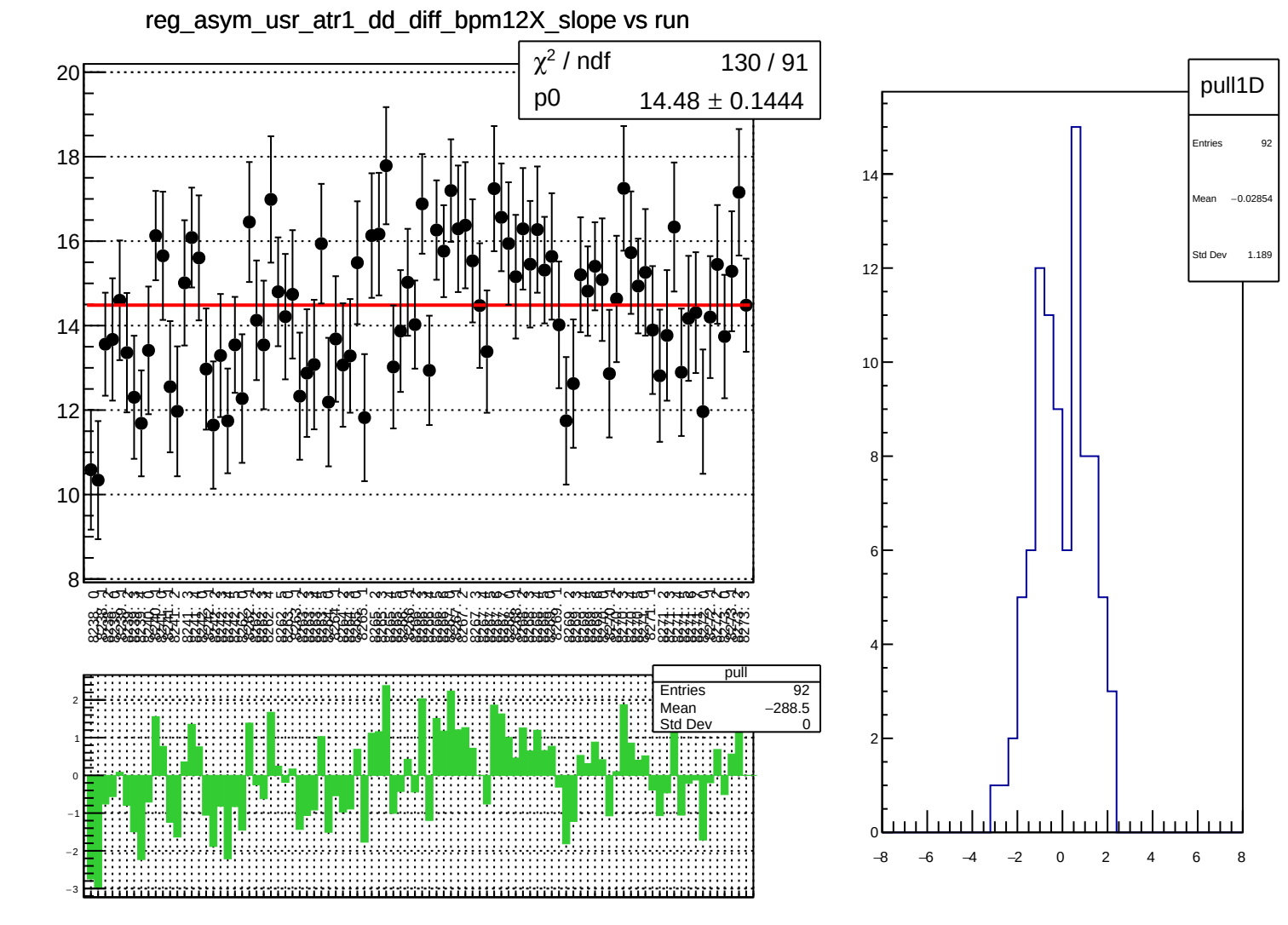

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.27 / 91
p0 7.74 ± 2.566
pull
Entries 92
Mean 99.92
Std Dev 0

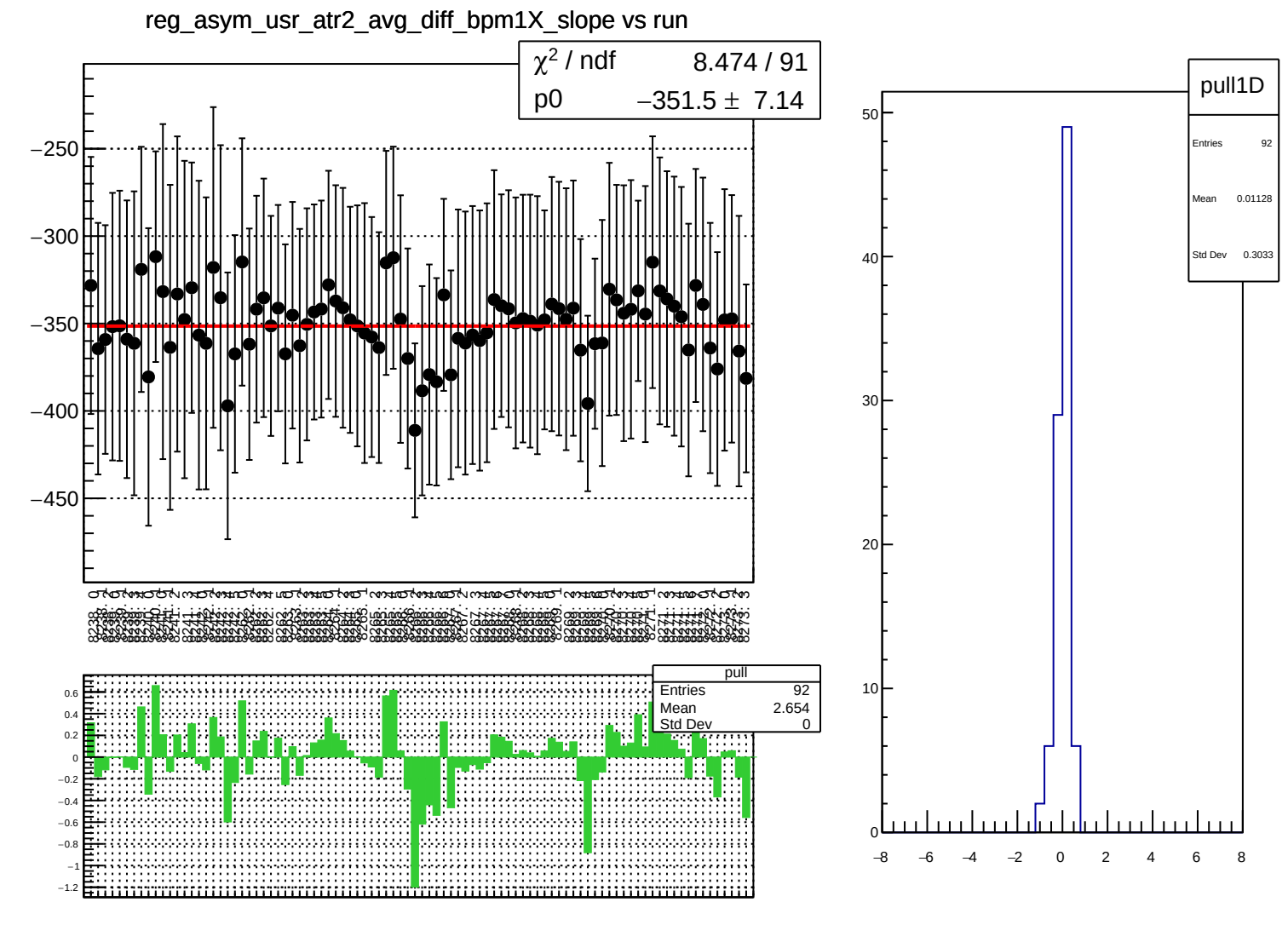

pull1D
Entries 92
Mean −0.005007
Std Dev 0.9627

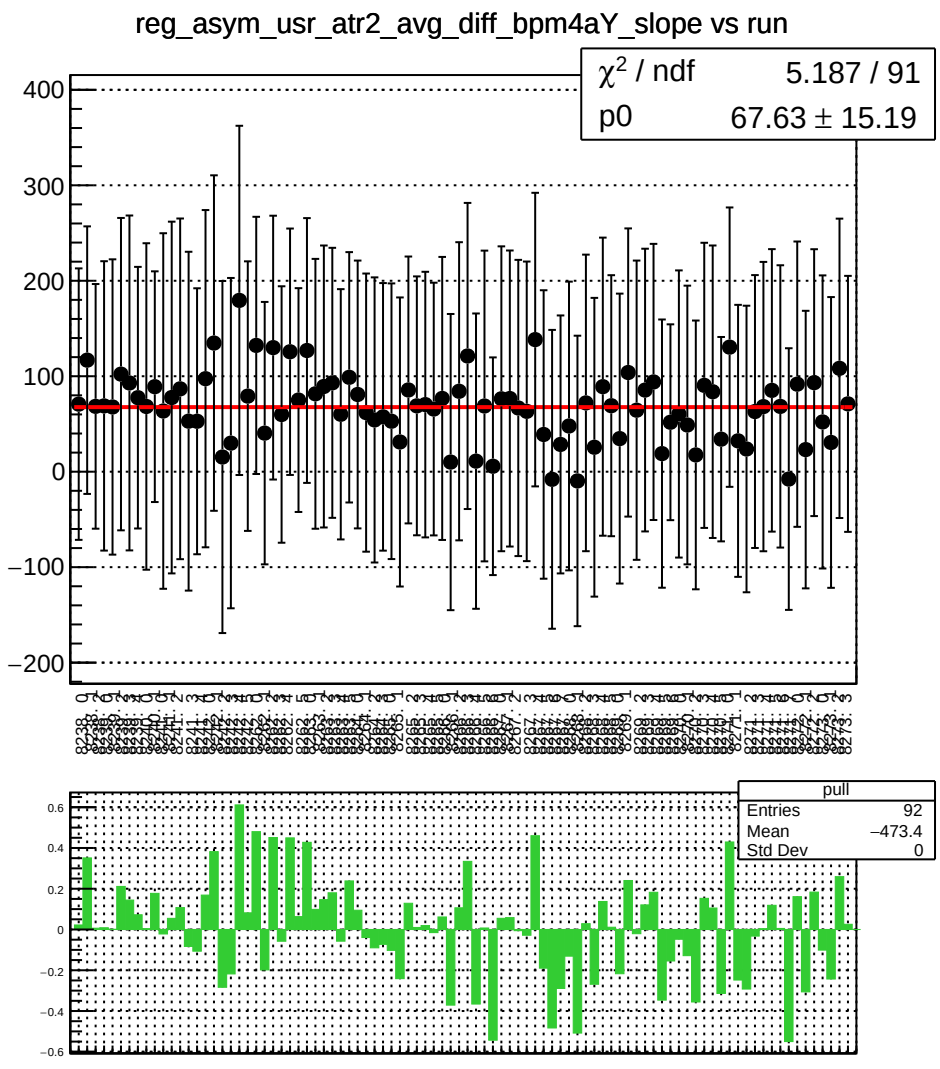

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.56 / 91
p0 38.52 ± 1.374
pull
Entries 92
Mean 1238
Std Dev 0
pull1D
Entries 92
Mean −0.005375
Std Dev 0.8246

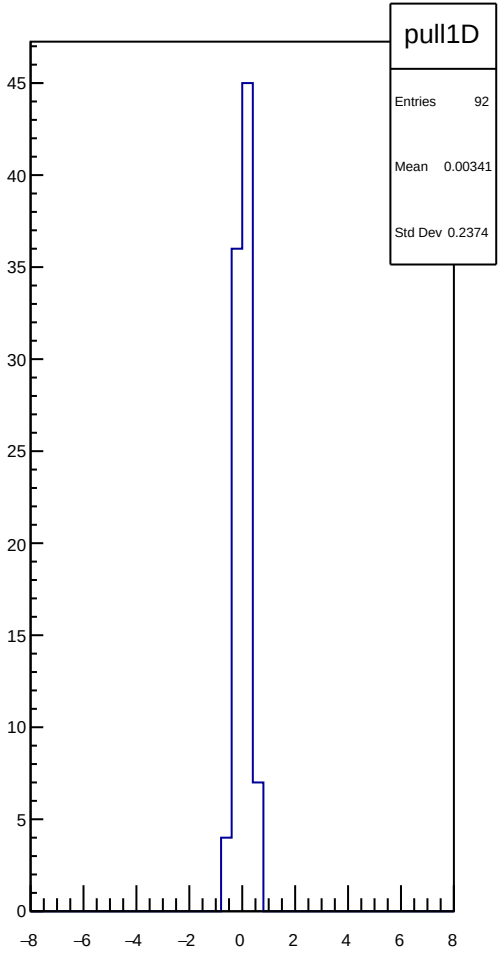

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 86.6 / 91
p0 −7.808 ± 2.671
100
50
0
−50
−100
pull
Entries 92
Mean 215.2
Std Dev 0
3
2
1
0
−1
−2

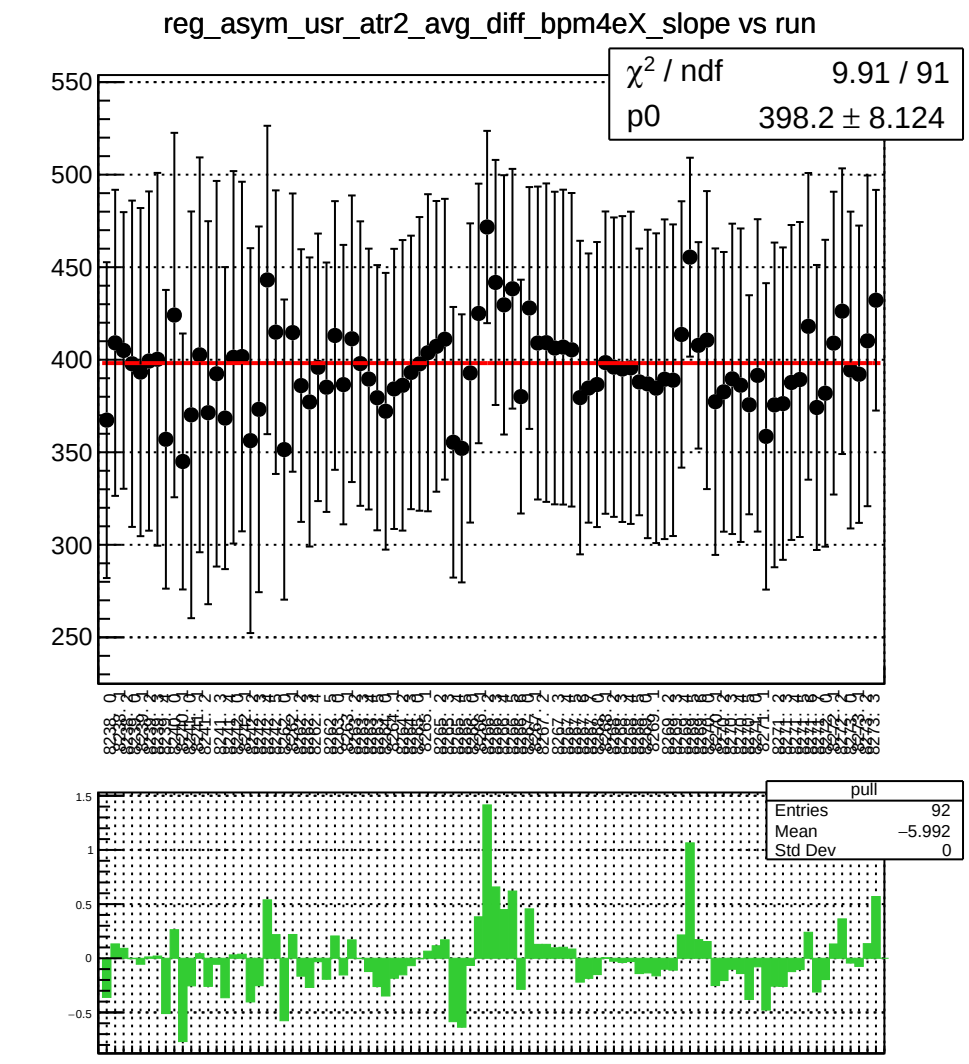

pull1D
Entries 92
Mean 0.006156
Std Dev 0.9702
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

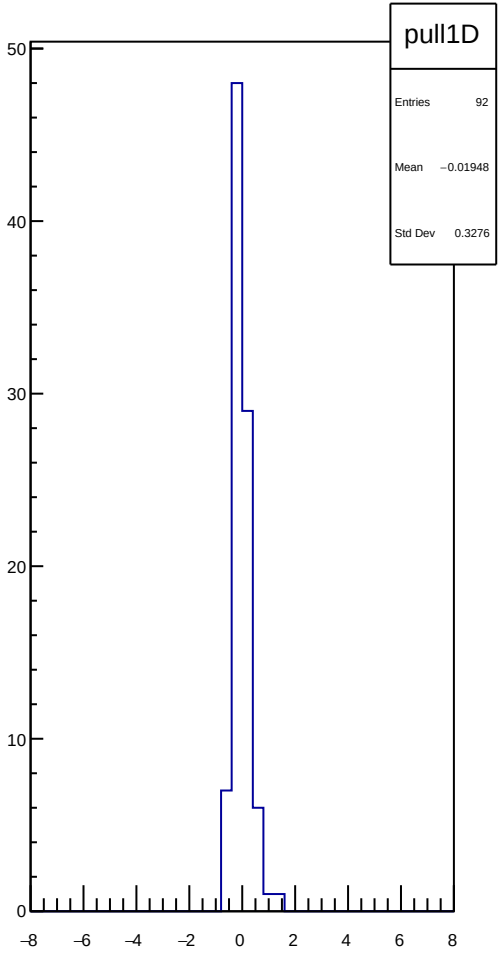

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 130 / 91
p0 14.48 ± 0.1444
pull
Entries 92
Mean −288.5
Std Dev 0
pull1D
Entries 92
Mean −0.02854
Std Dev 1.189

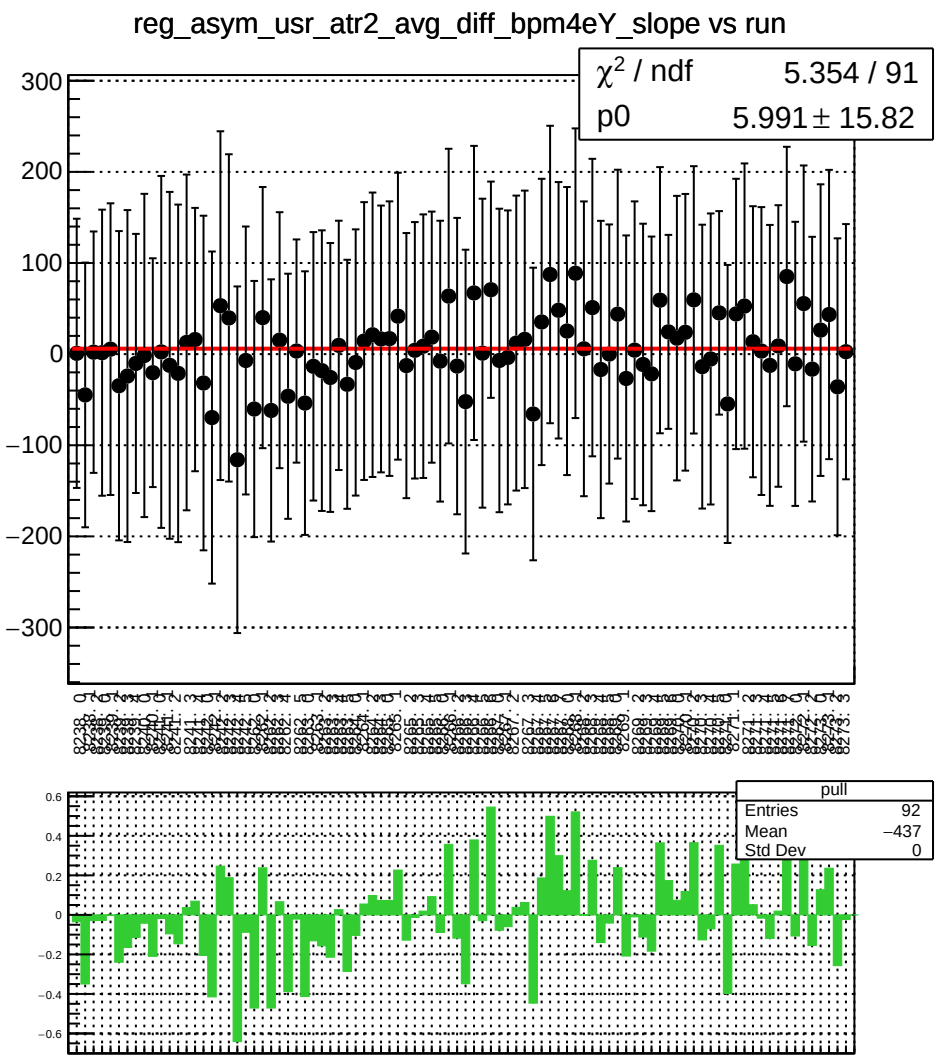

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 8.474 / 91
p0 −351.5 ± 7.14
−250
−300
−350
−400
−450
pull
Entries 92
Mean 2.654
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 92
Mean 0.01128
Std Dev 0.3033
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

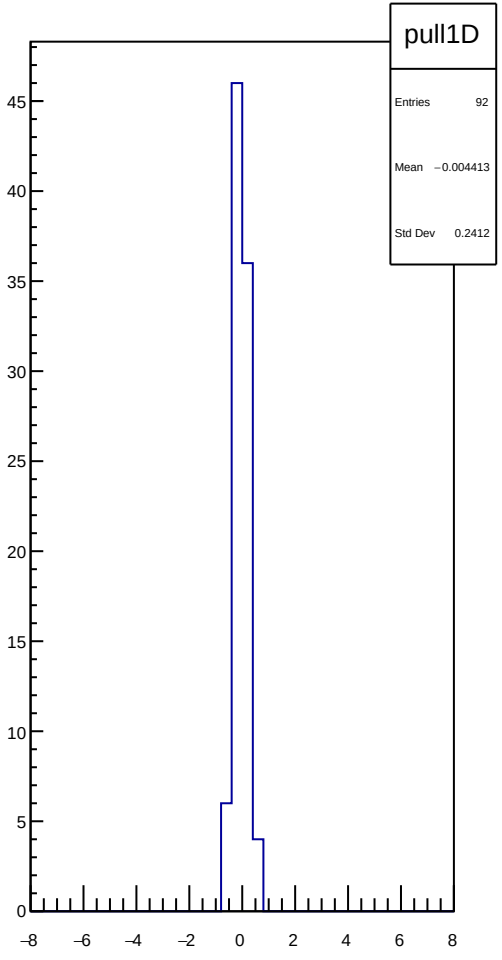

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.187 / 91
p0 67.63 ± 15.19
pull
Entries 92
Mean −473.4
Std Dev 0

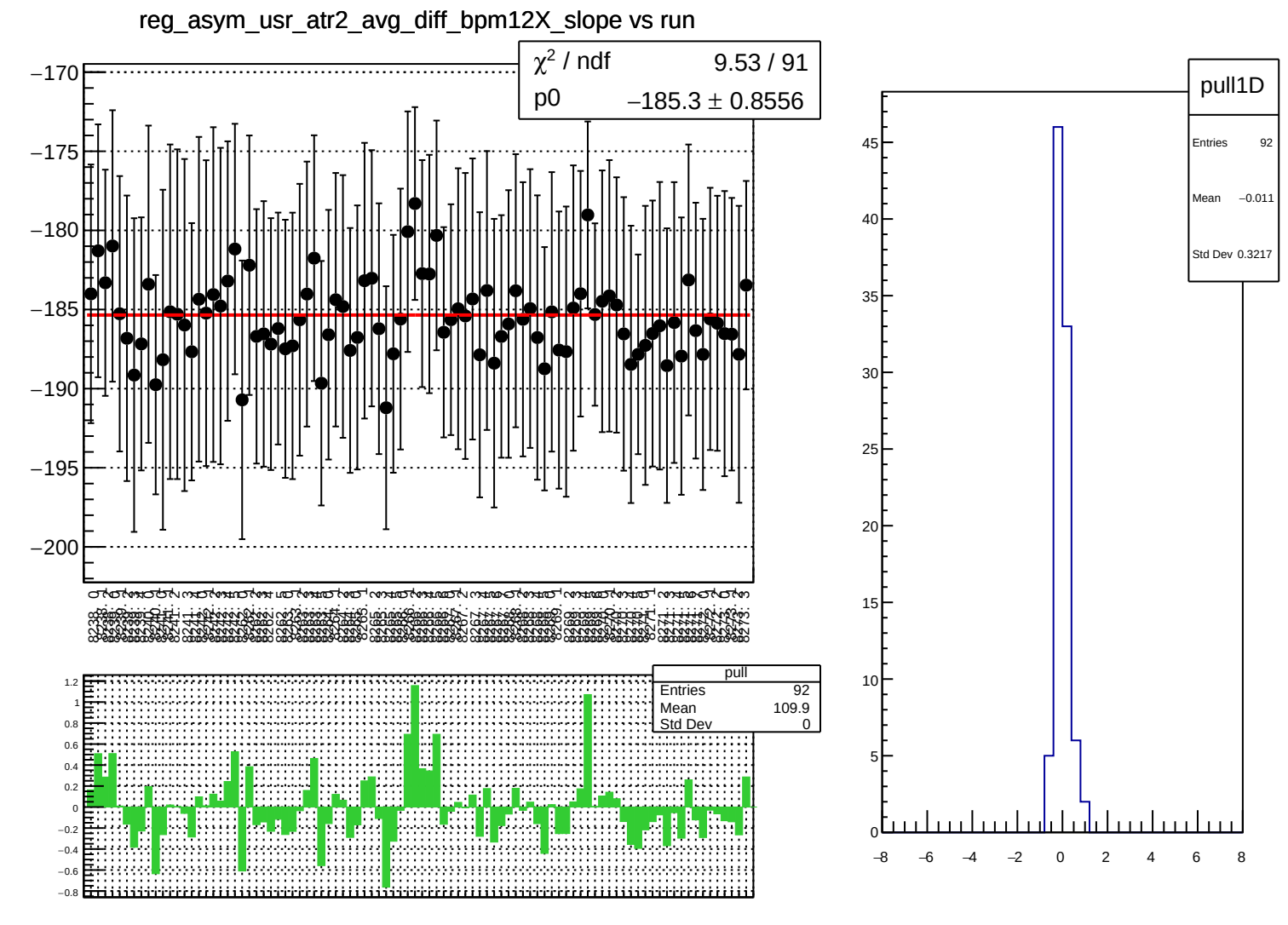

pull1D
Entries 92
Mean 0.00341
Std Dev 0.2374

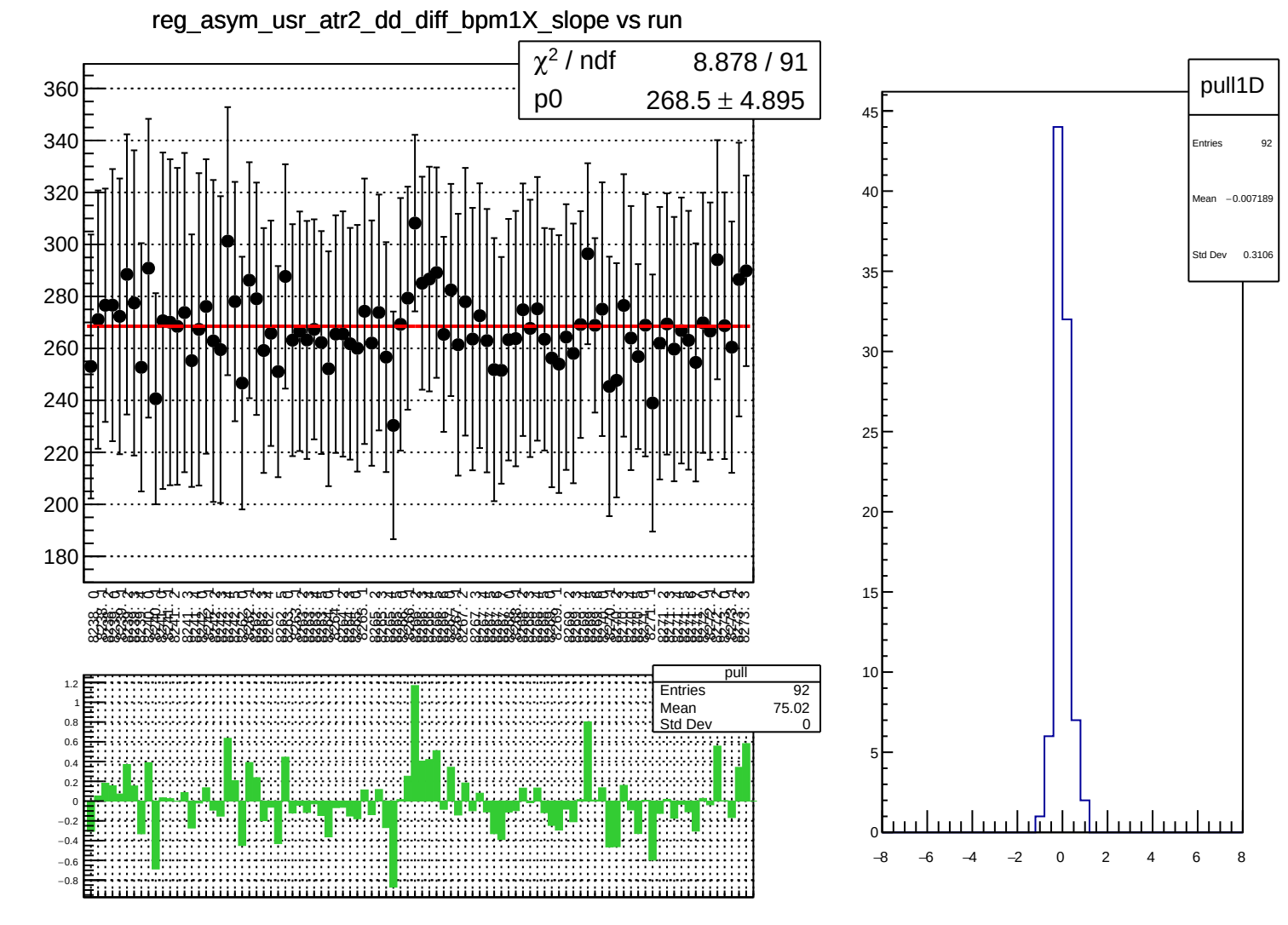

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.91 / 91
p0 398.2 ± 8.124
pull
Entries 92
Mean −5.992
Std Dev 0

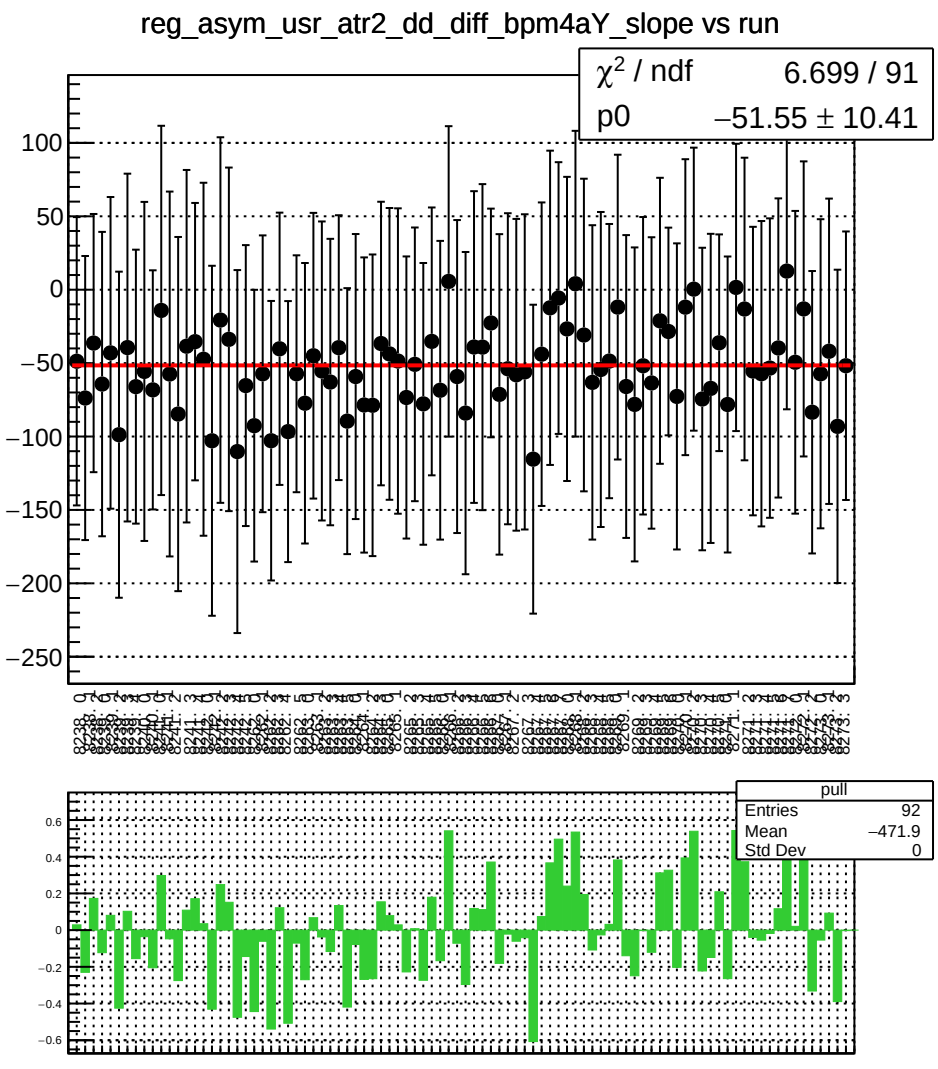

pull1D
Entries 92
Mean −0.01948
Std Dev 0.3276

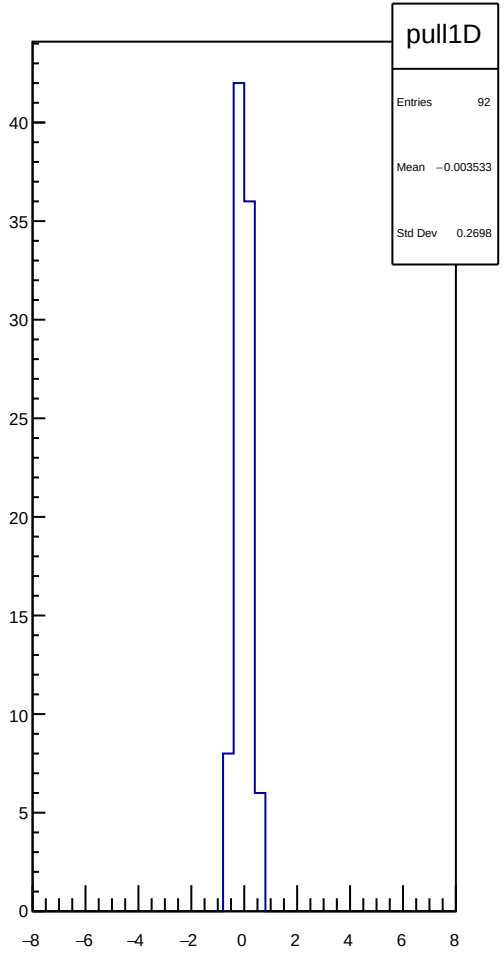

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.354 / 91
p0 5.991 ± 15.82
pull
Entries 92
Mean −437
Std Dev 0

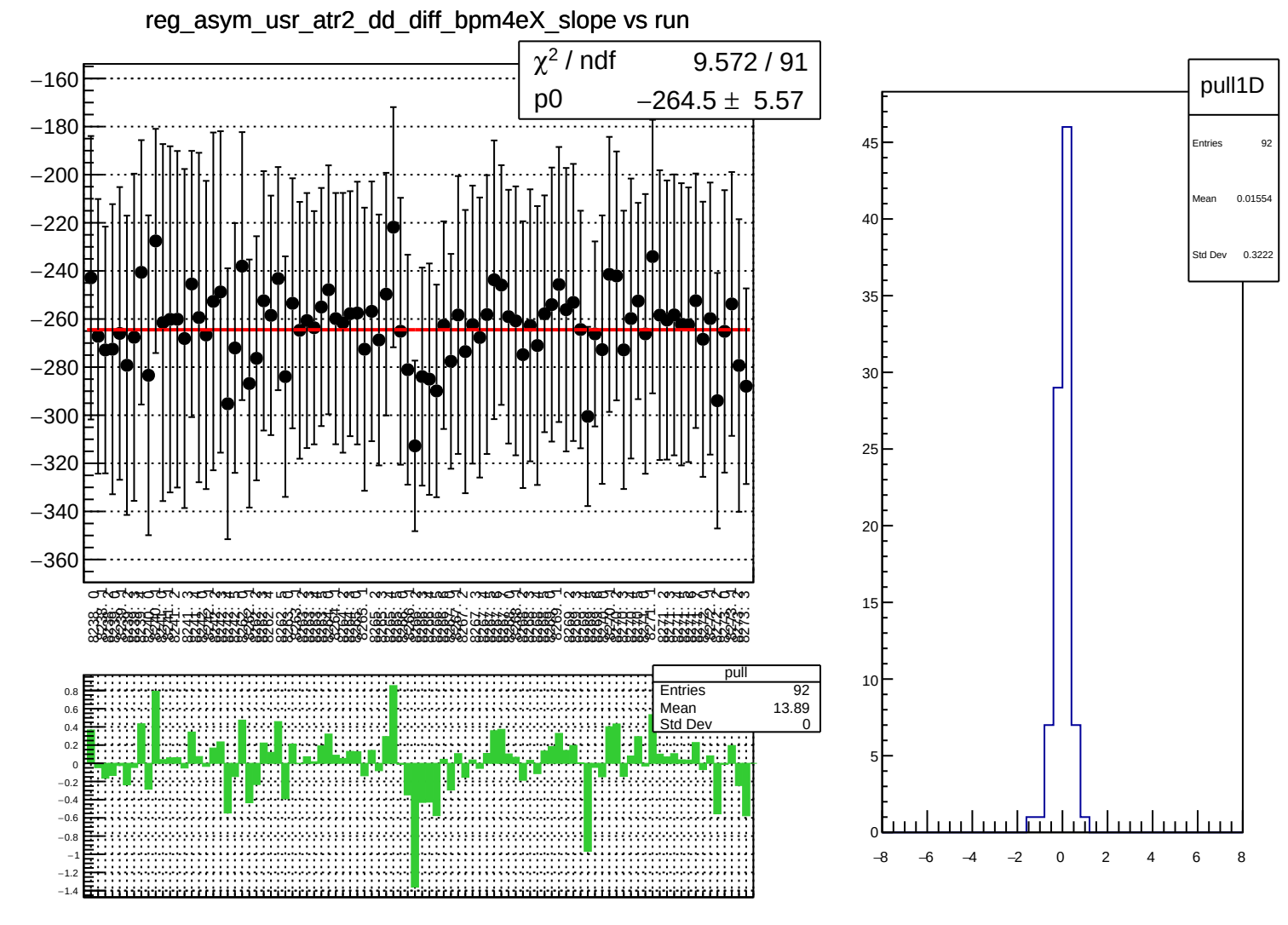

pull1D
Entries 92
Mean −0.004413
Std Dev 0.2412

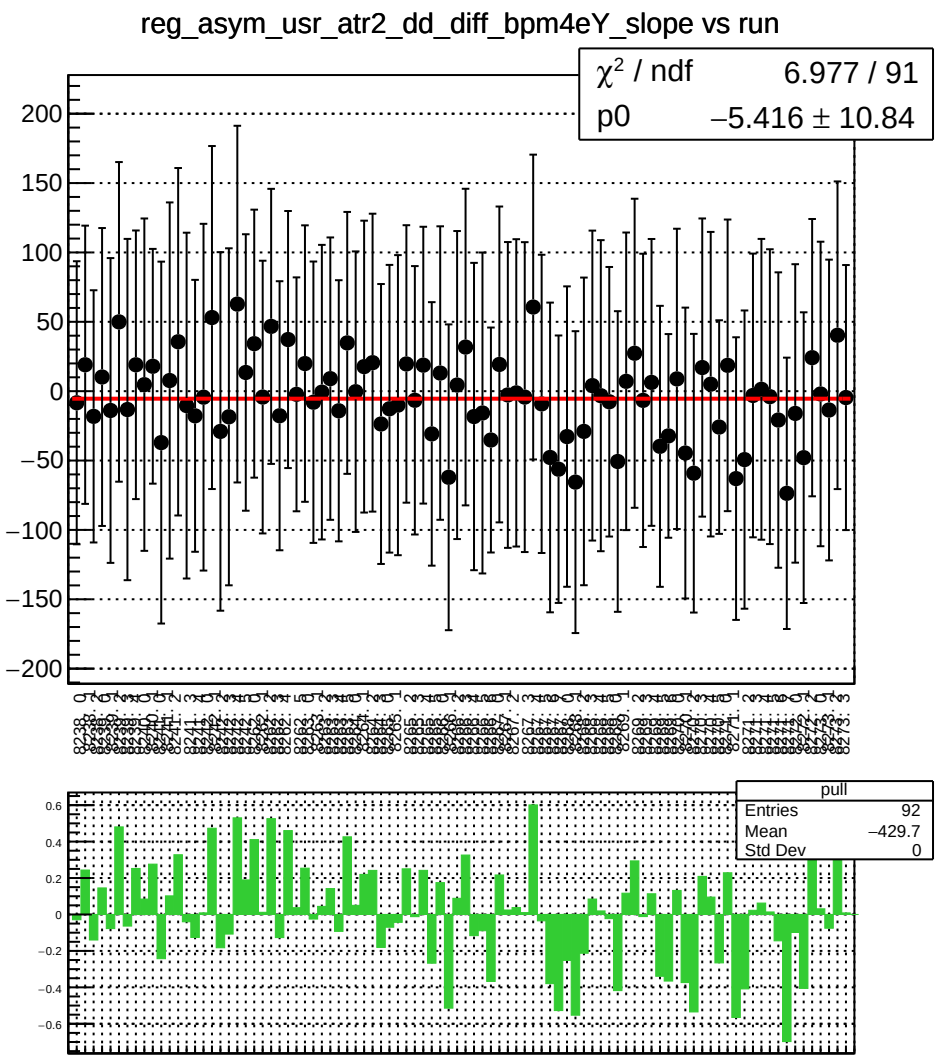

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 9.53 / 91
p0 −185.3 ± 0.8556
pull
Entries 92
Mean 109.9
Std Dev 0
pull1D
Entries 92
Mean −0.011
Std Dev 0.3217

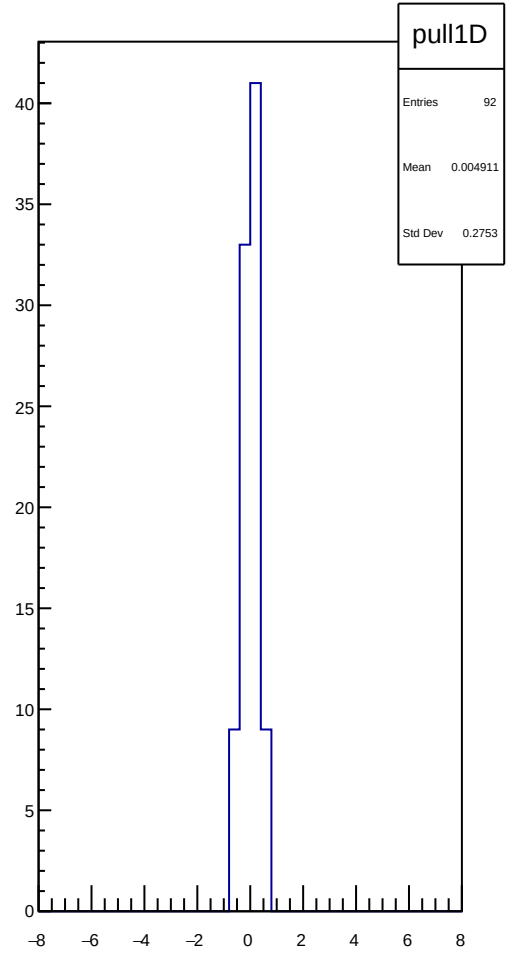

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 8.878 / 91
p0 268.5 ± 4.895
pull
Entries 92
Mean 75.02
Std Dev 0
pull1D
Entries 92
Mean −0.007189
Std Dev 0.3106

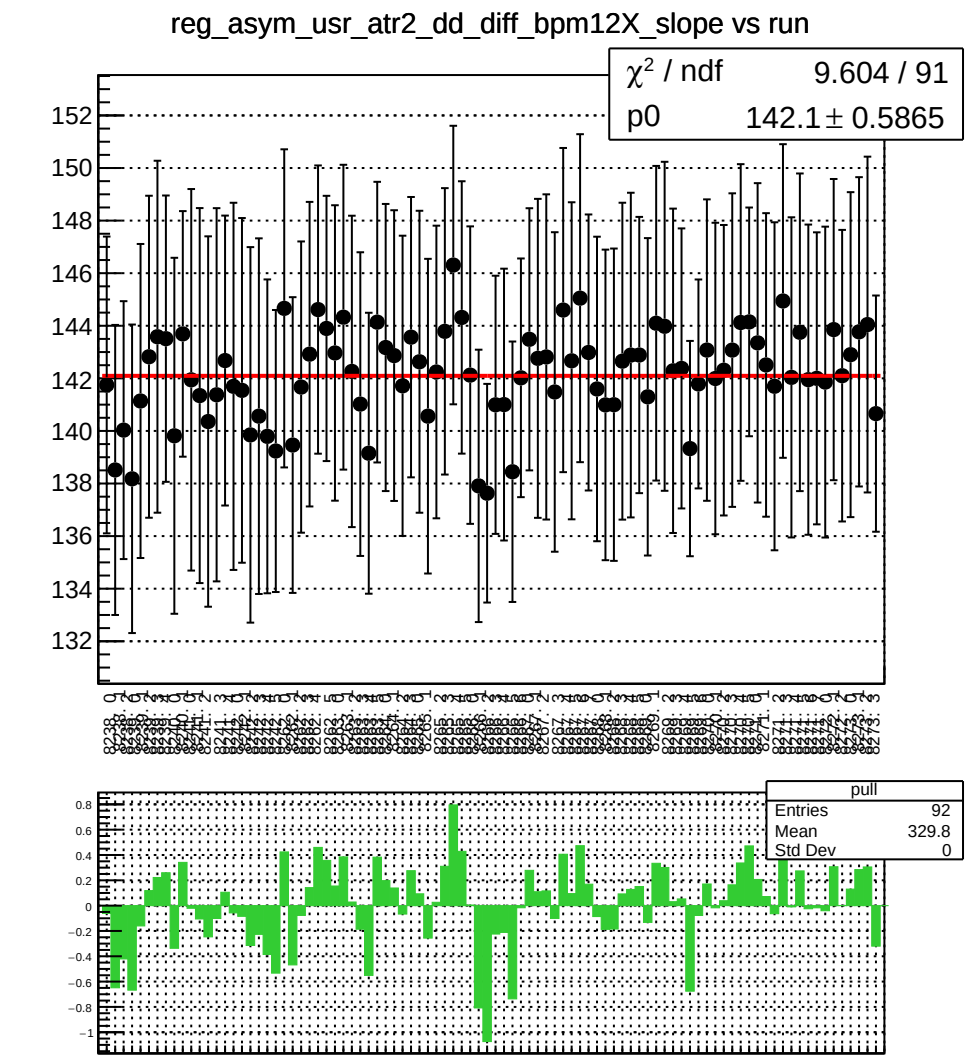

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.699 / 91
p0 −51.55 ± 10.41
pull
Entries 92
Mean −471.9
Std Dev 0

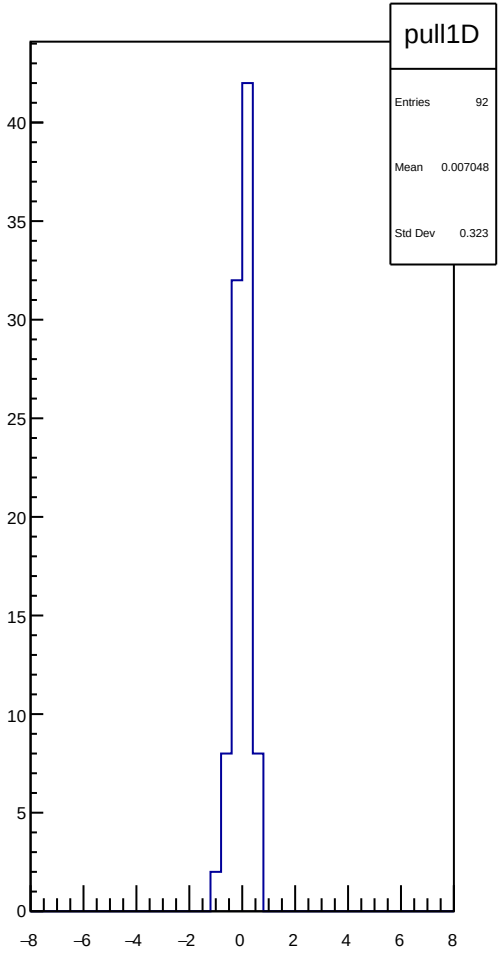

pull1D
Entries 92
Mean −0.003533
Std Dev 0.2698

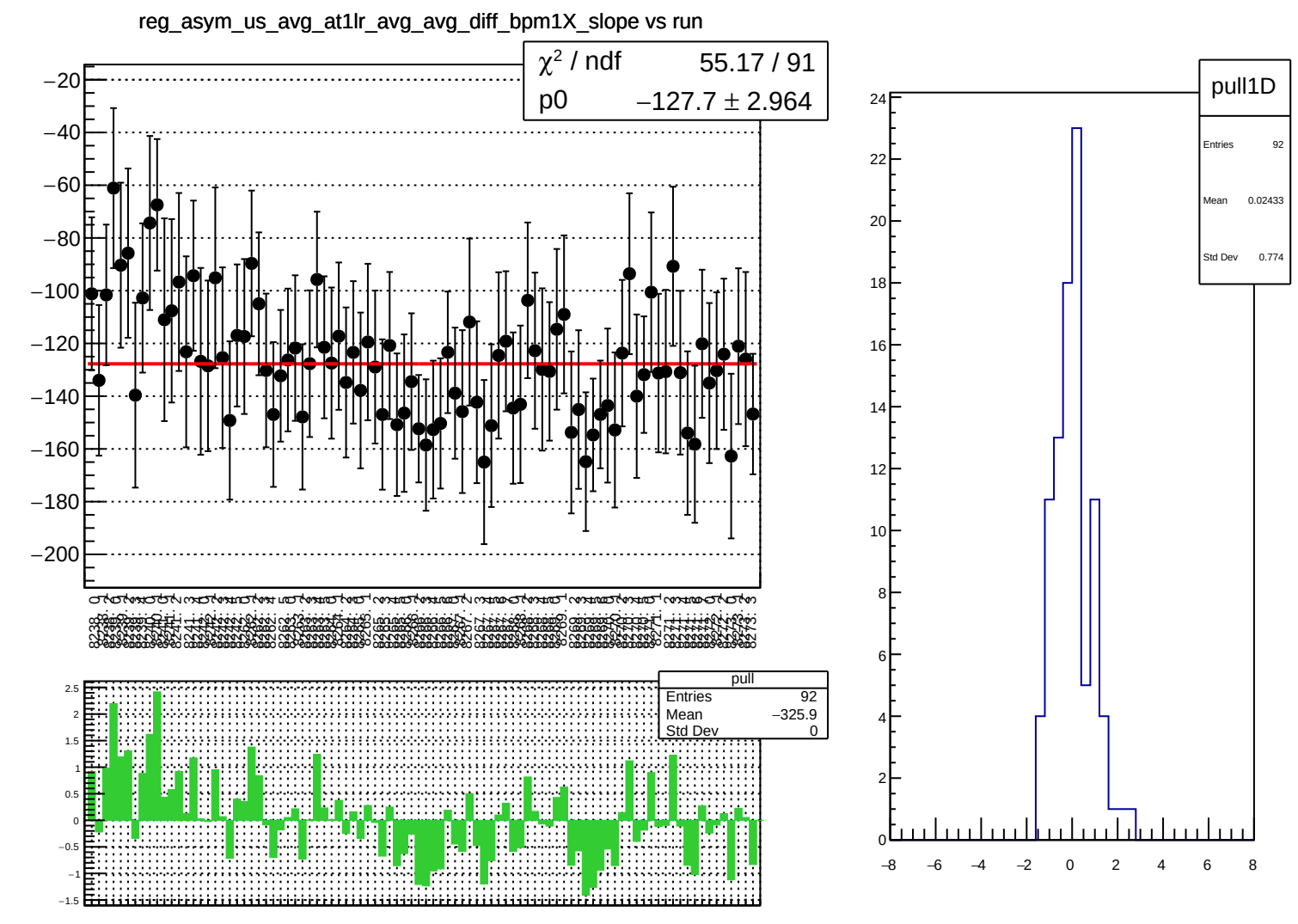

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.572 / 91
p0 −264.5 ± 5.57
pull
Entries 92
Mean 13.89
Std Dev 0
pull1D
Entries 92
Mean 0.01554
Std Dev 0.3222

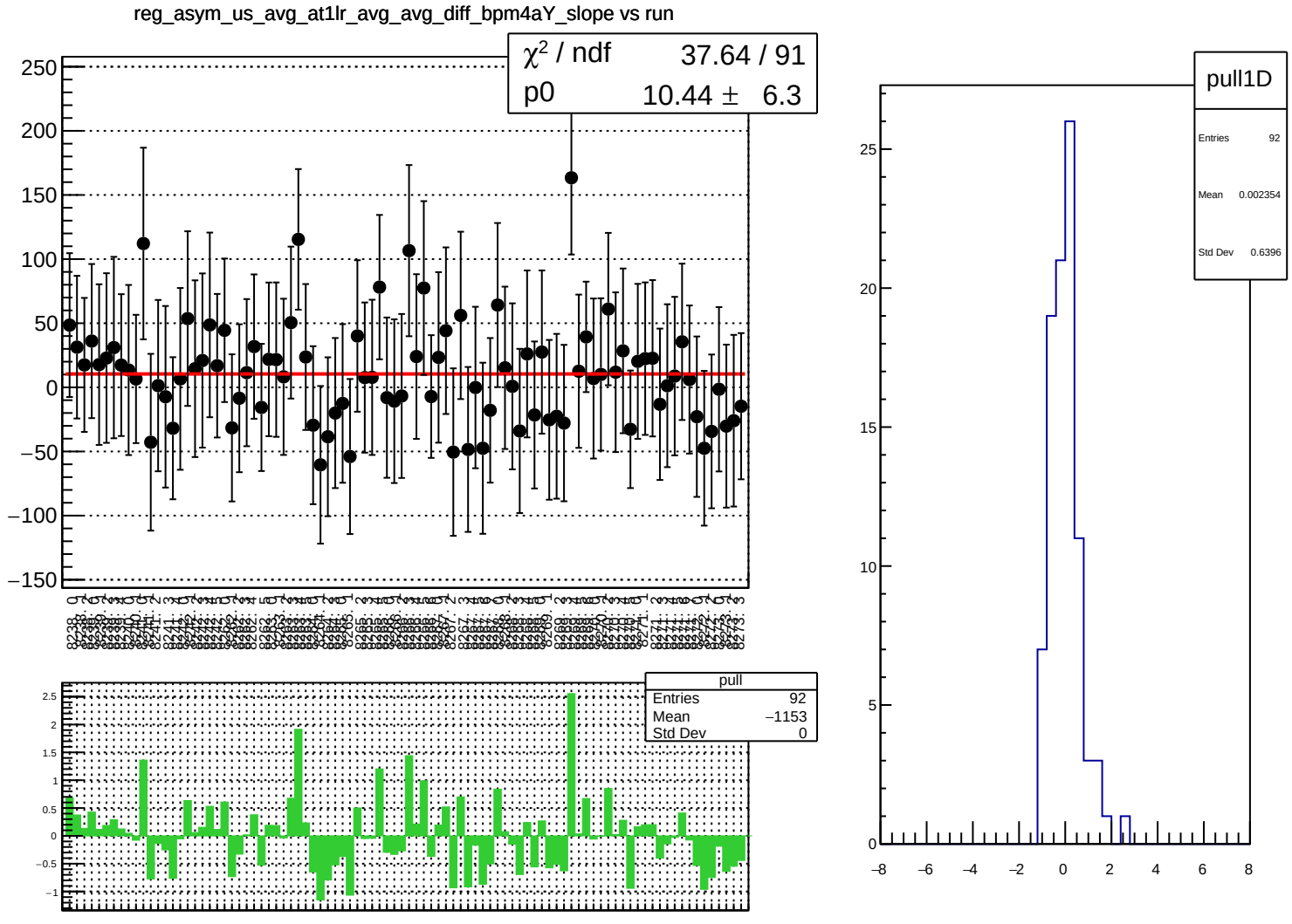

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.977 / 91
p0 −5.416 ± 10.84
pull
Entries 92
Mean −429.7
Std Dev 0

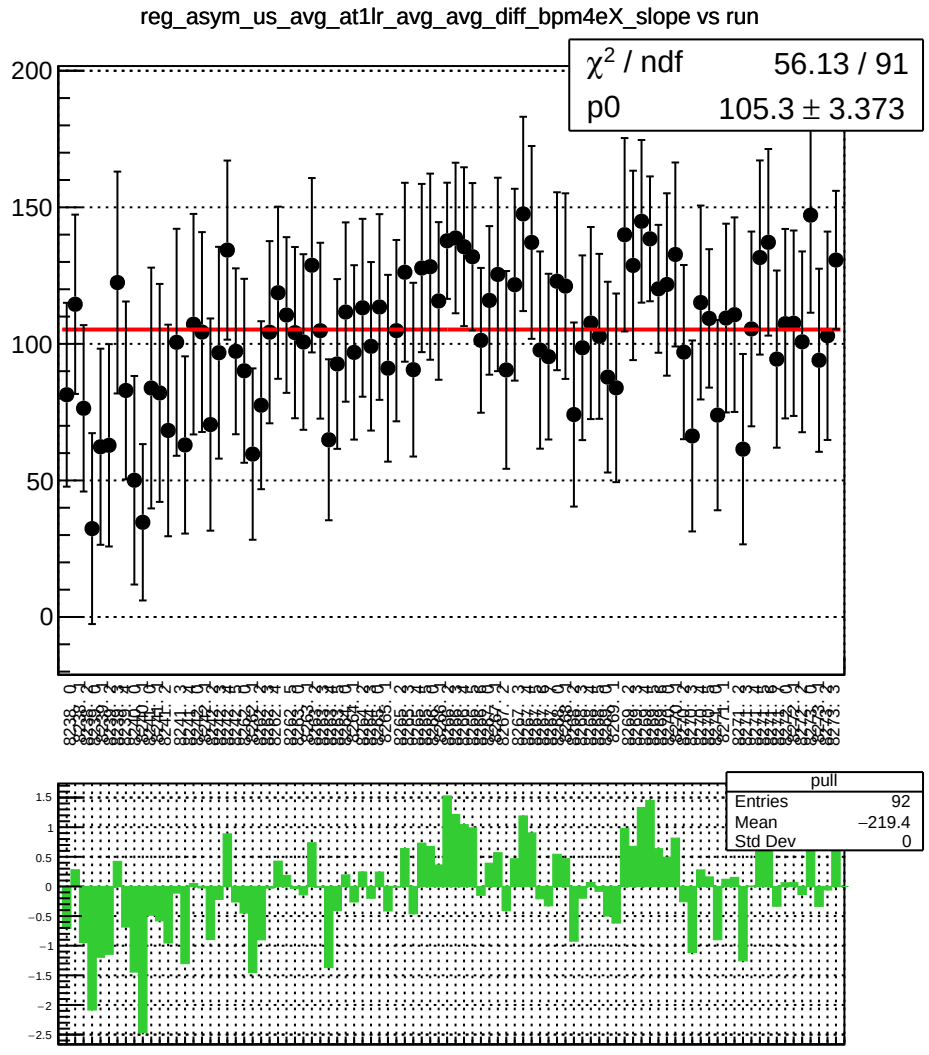

pull1D
Entries 92
Mean 0.004911
Std Dev 0.2753

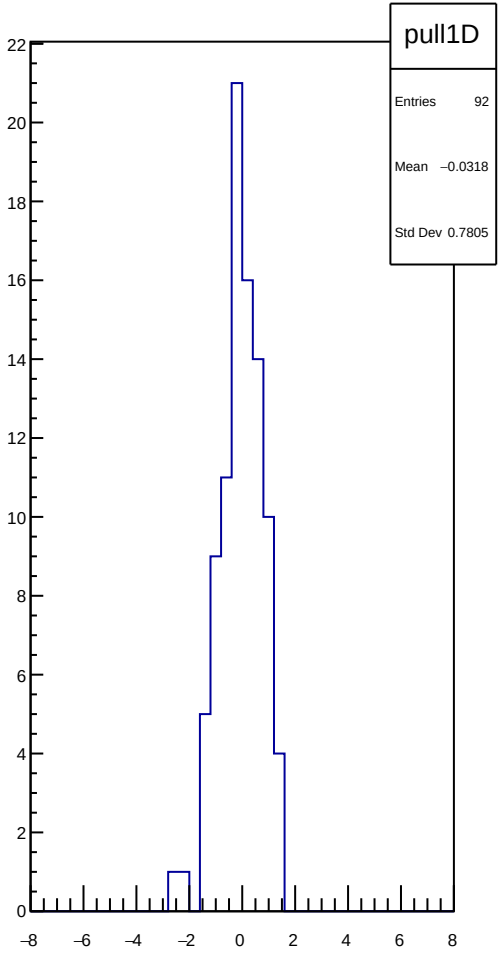

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 9.604 / 91
p0 142.1 ± 0.5865
pull
Entries 92
Mean 329.8
Std Dev 0

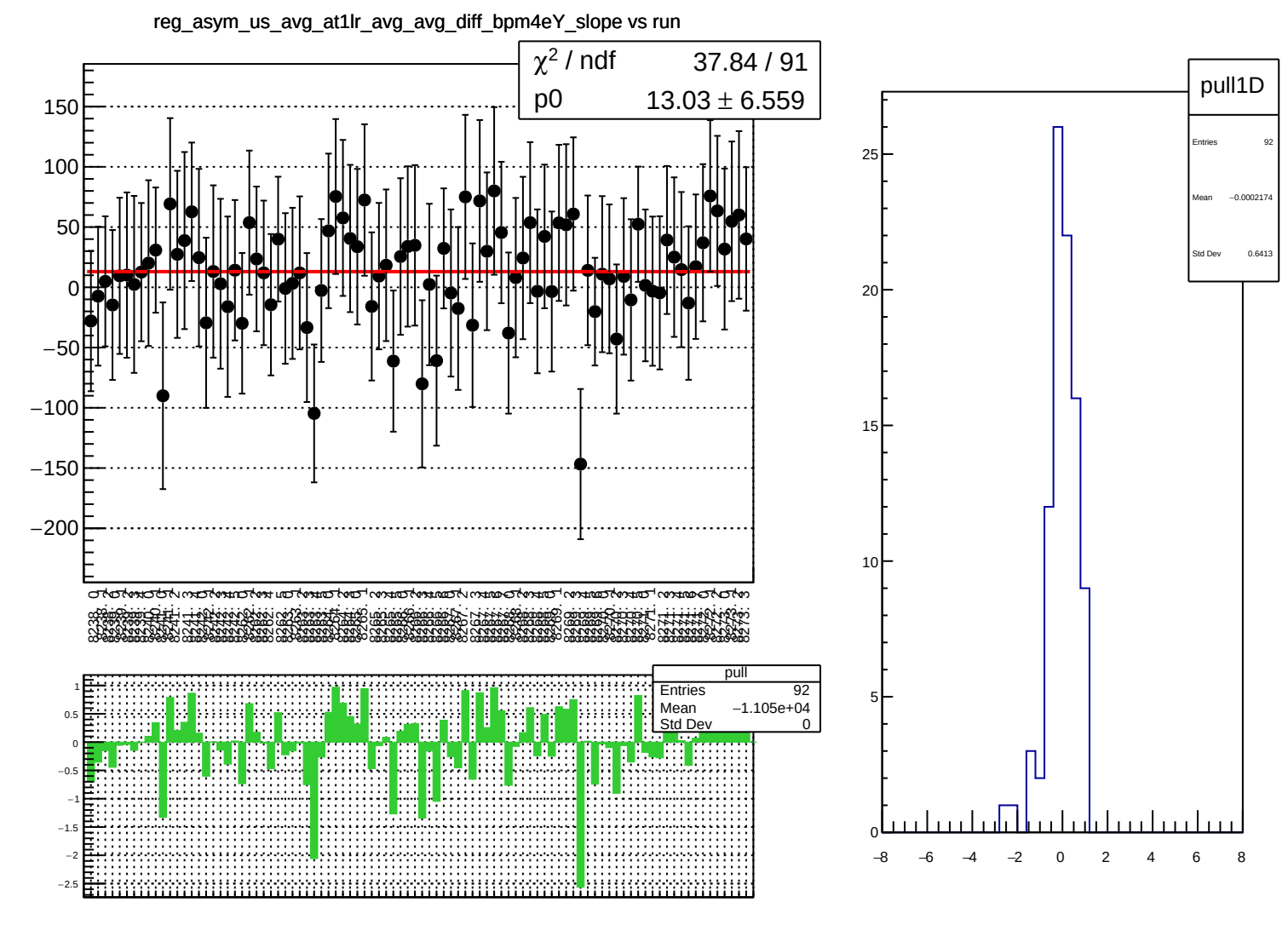

pull1D
Entries 92
Mean 0.007048
Std Dev 0.323

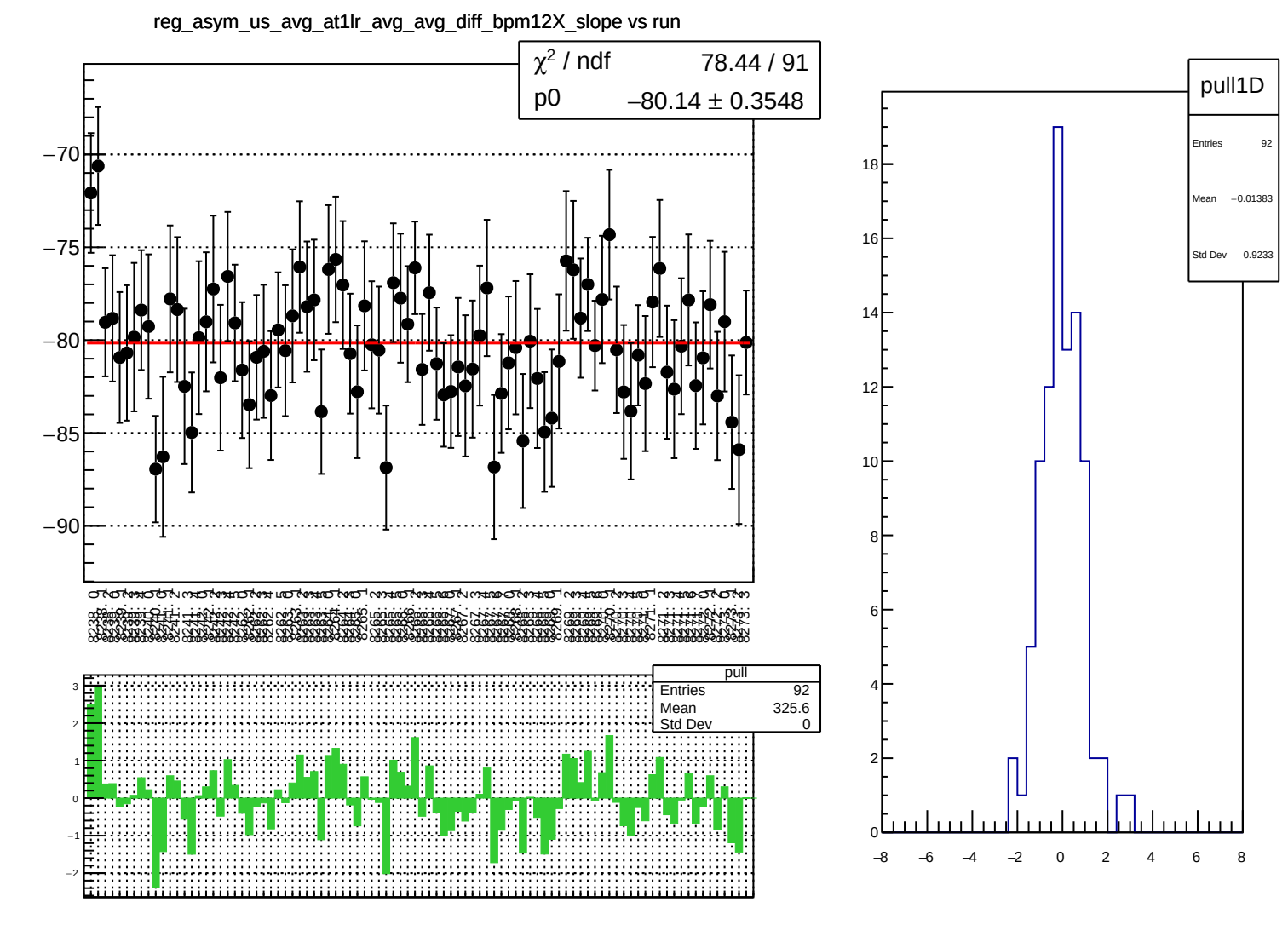

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 55.17 / 91
p0 −127.7 ± 2.964
pull
Entries 92
Mean −325.9
Std Dev 0
pull1D
Entries 92
Mean 0.02433
Std Dev 0.774

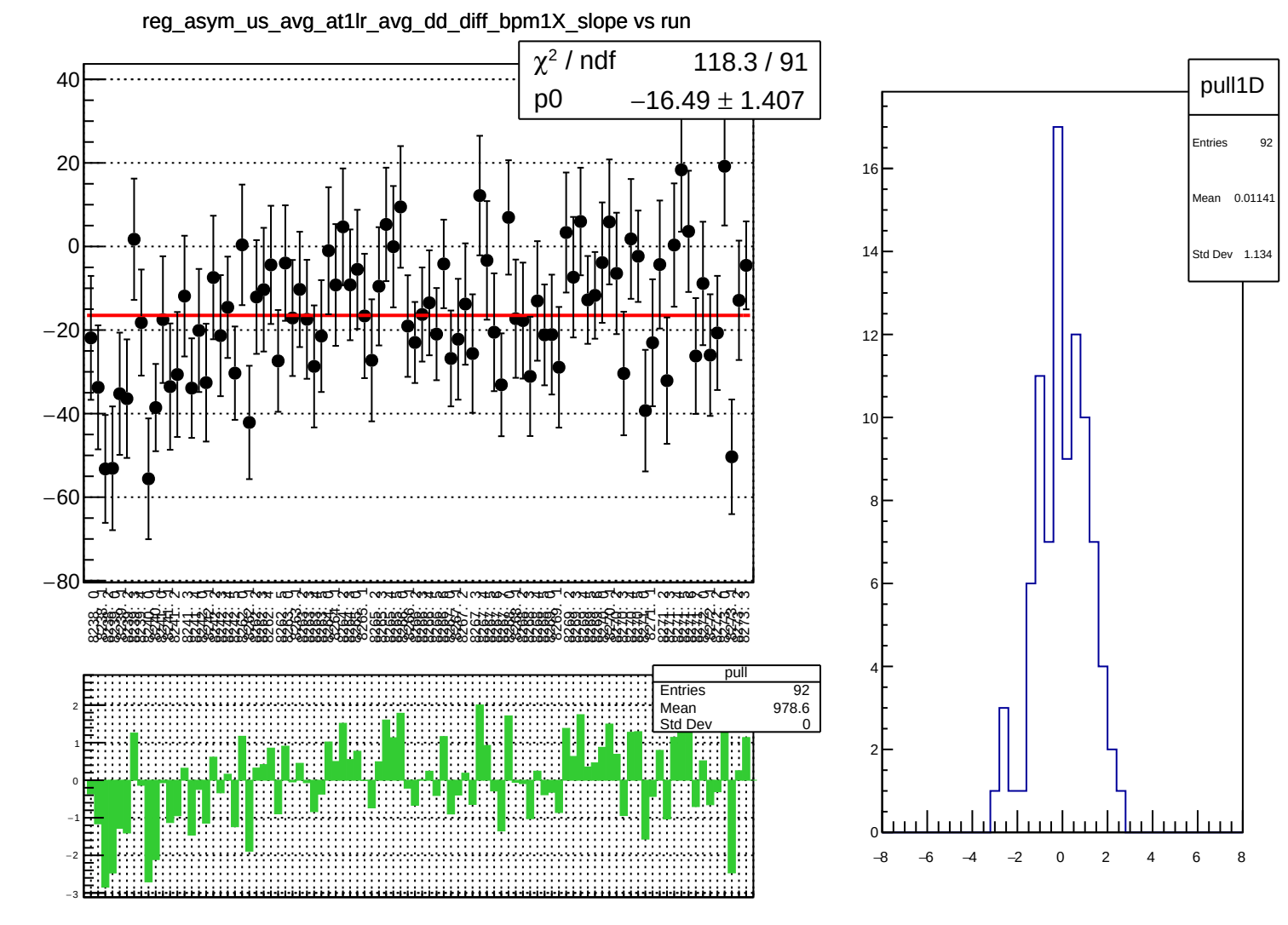

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.64 / 91
p0 10.44 ± 6.3
pull
Entries 92
Mean −1153
Std Dev 0
pull1D
Entries 92
Mean 0.002354
Std Dev 0.6396

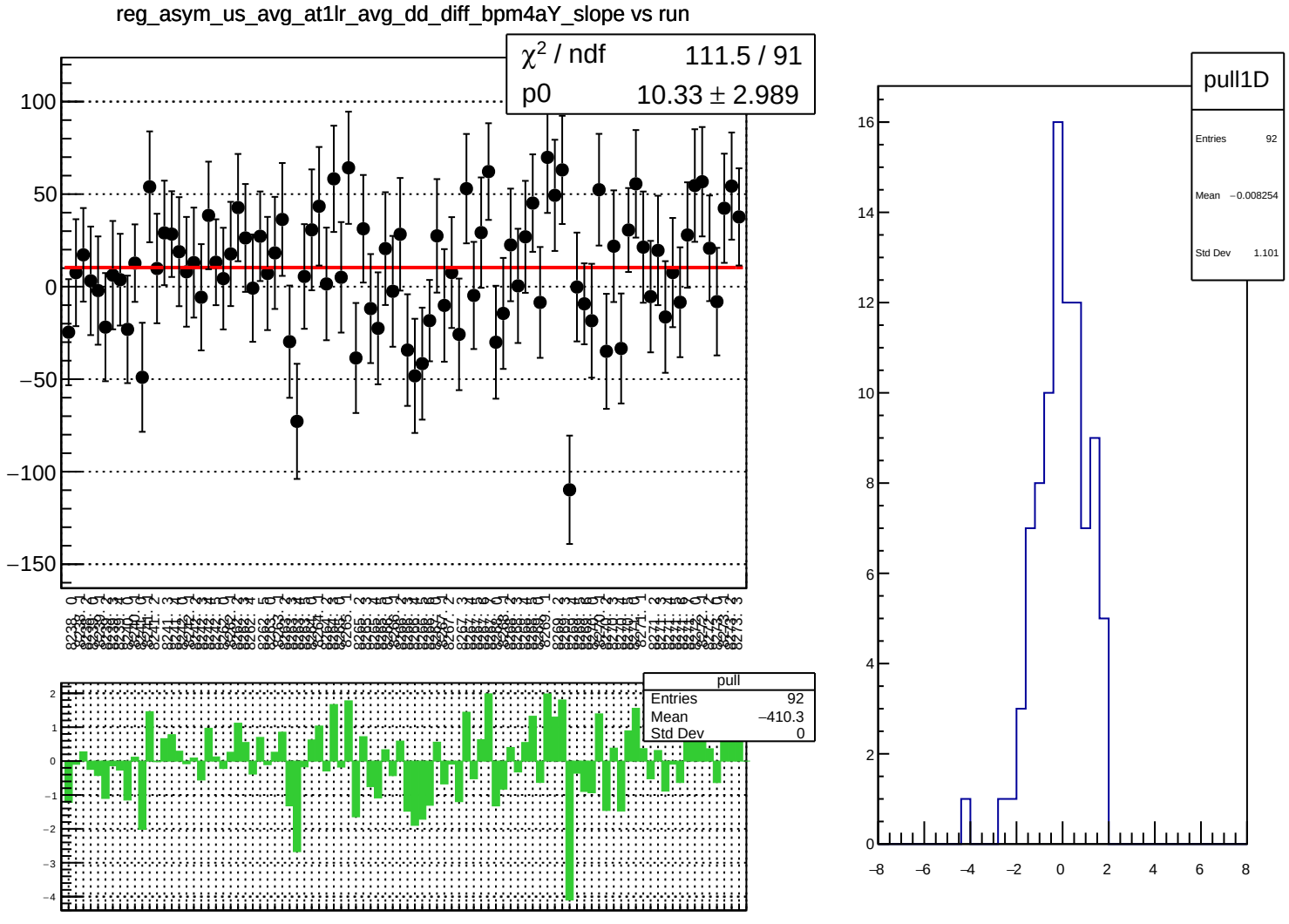

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 56.13 / 91
p0 105.3 ± 3.373
pull
Entries 92
Mean −219.4
Std Dev 0

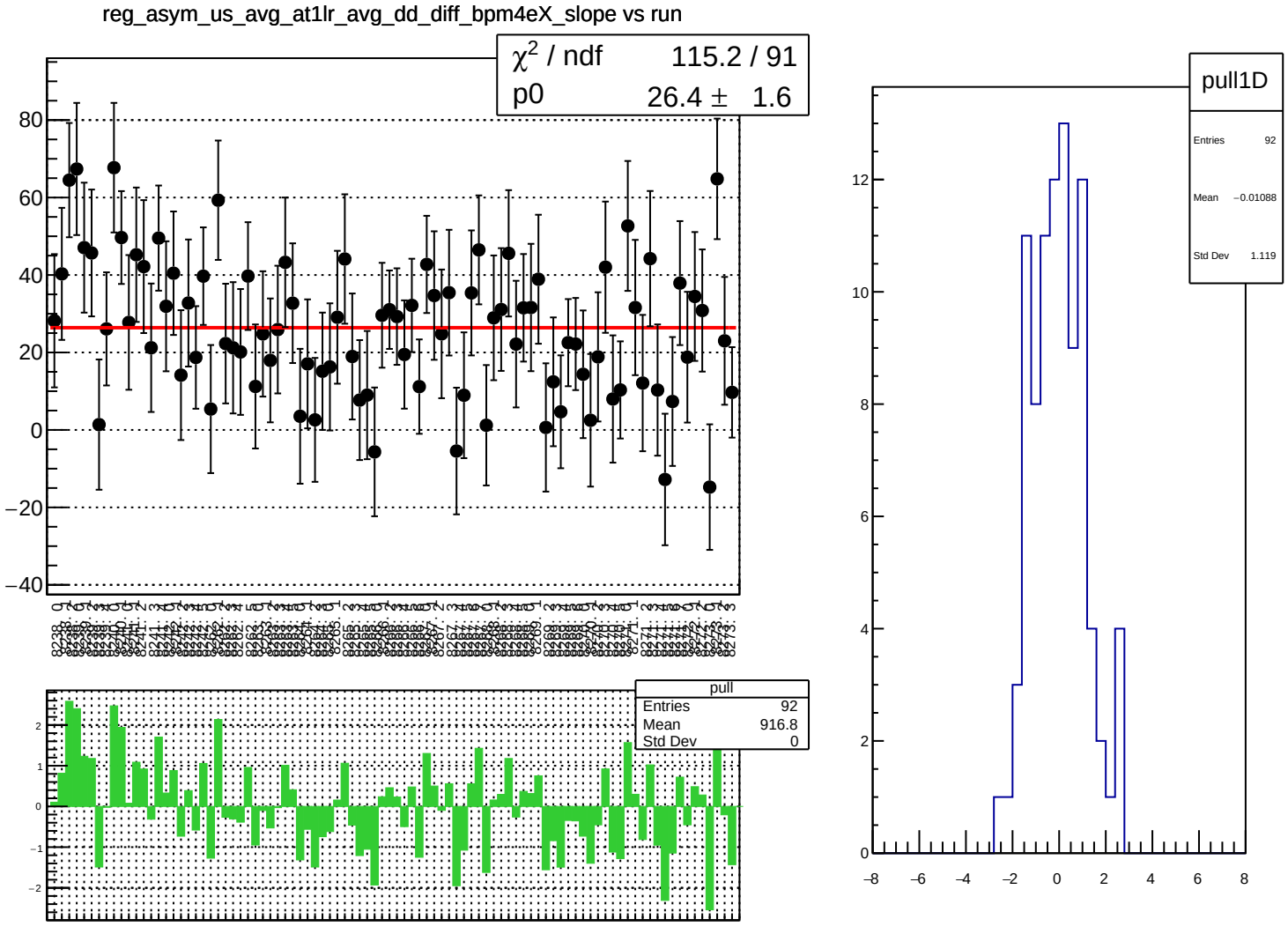

pull1D
Entries 92
Mean −0.0318
Std Dev 0.7805

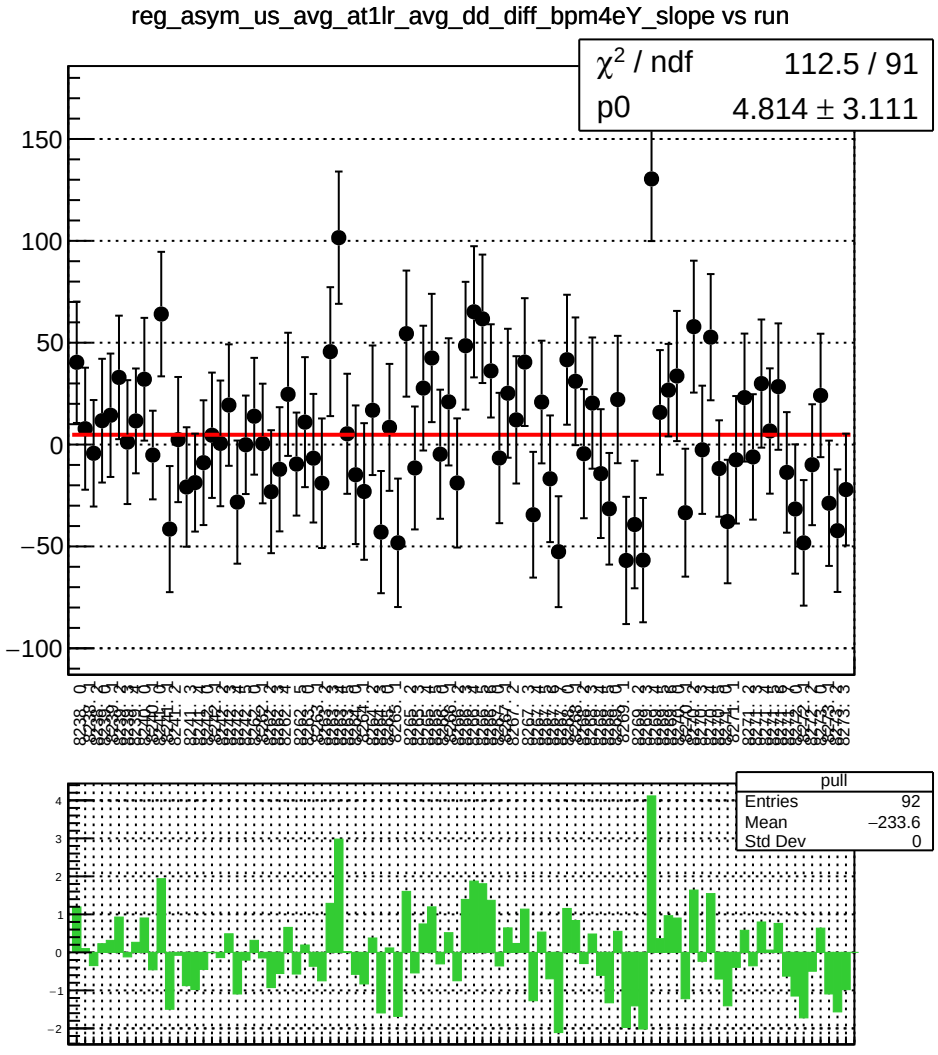

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.84 / 91
p0 13.03 ± 6.559
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −1.105e+04
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 92
Mean −0.0002174
Std Dev 0.6413
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

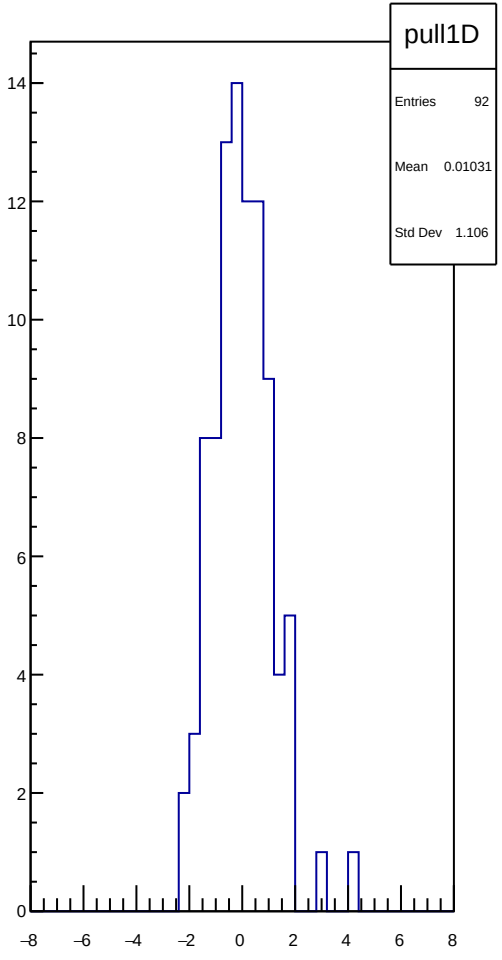

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 78.44 / 91
p0 −80.14 ± 0.3548
−70
−75
−80
−85
−90
pull
Entries 92
Mean 325.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01383
Std Dev 0.9233
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

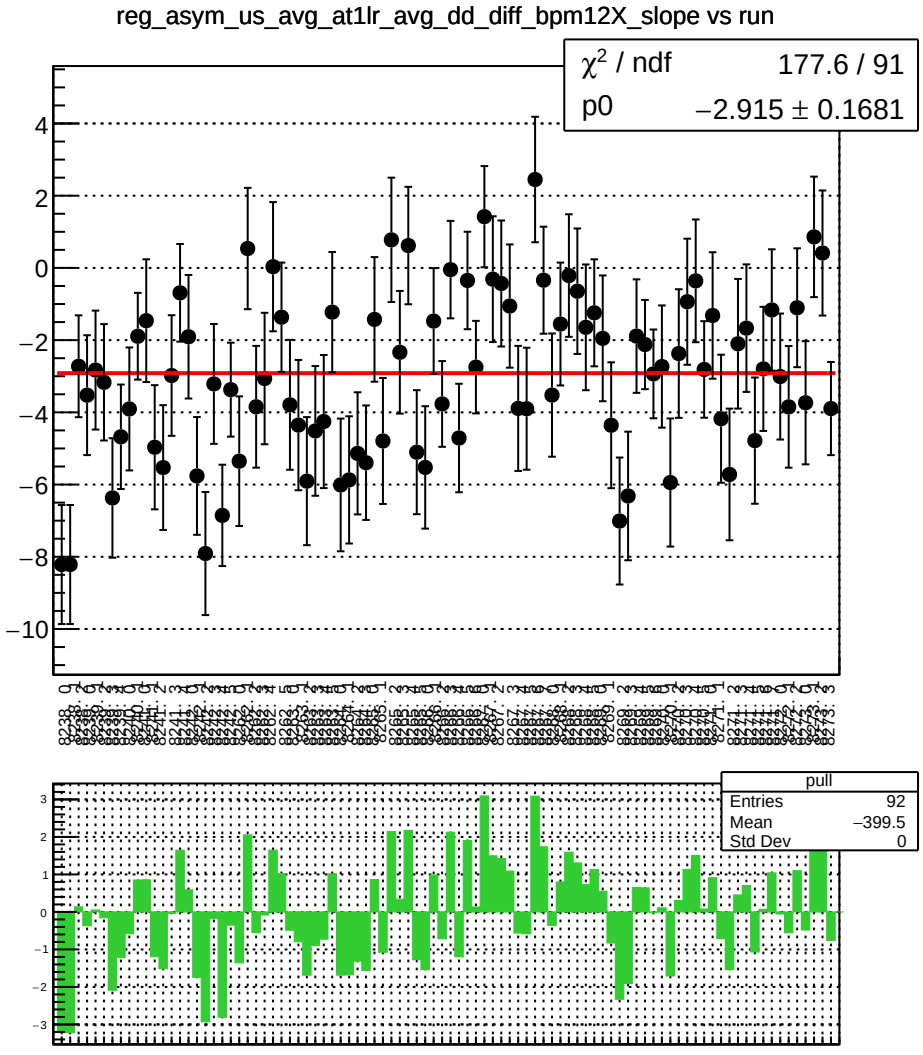

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 118.3 / 91
p0 −16.49 ± 1.407
pull
Entries 92
Mean 978.6
Std Dev 0
pull1D
Entries 92
Mean 0.01141
Std Dev 1.134

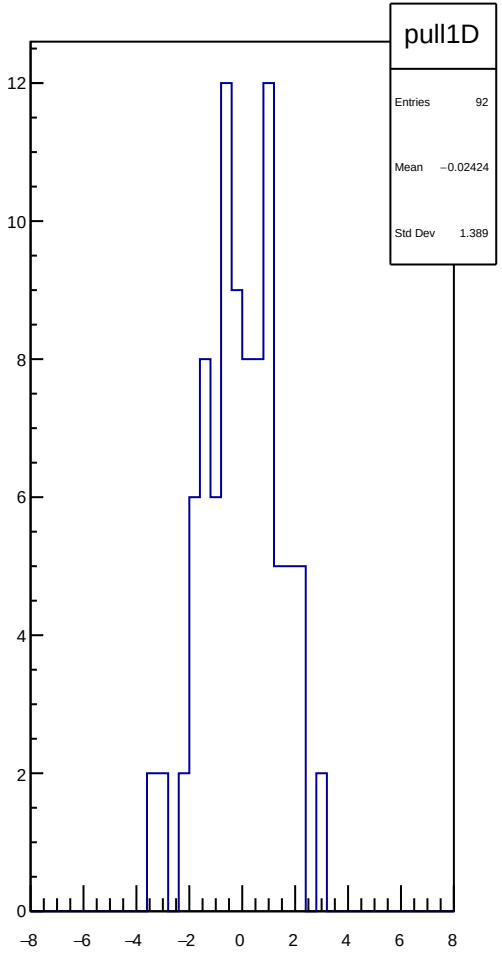

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 111.5 / 91
p0 10.33 ± 2.989
pull
Entries 92
Mean −410.3
Std Dev 0
pull1D
Entries 92
Mean −0.008254
Std Dev 1.101

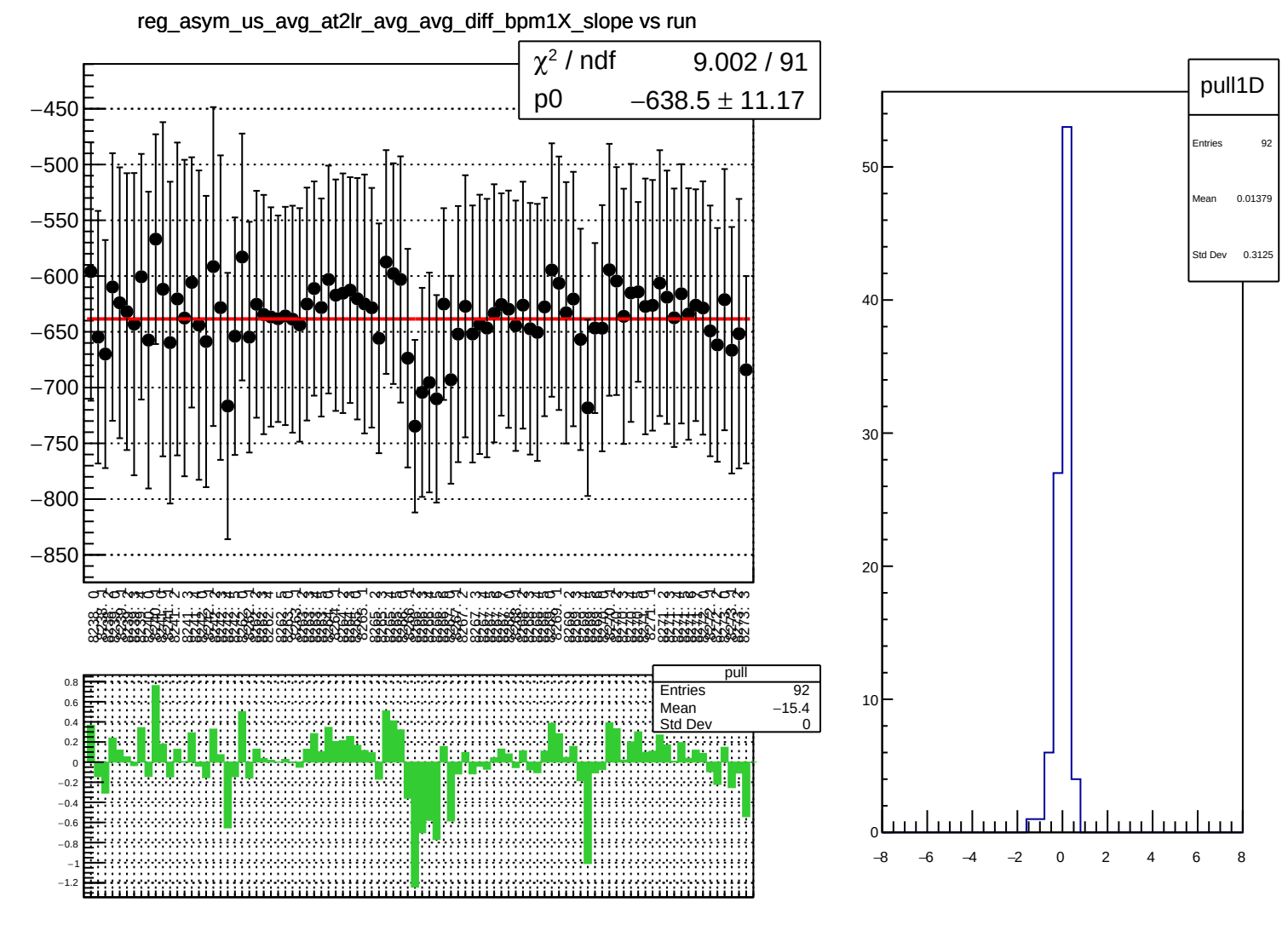

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 115.2 / 91
p0 26.4 ± 1.6
pull
Entries 92
Mean 916.8
Std Dev 0
pull1D
Entries 92
Mean −0.01088
Std Dev 1.119

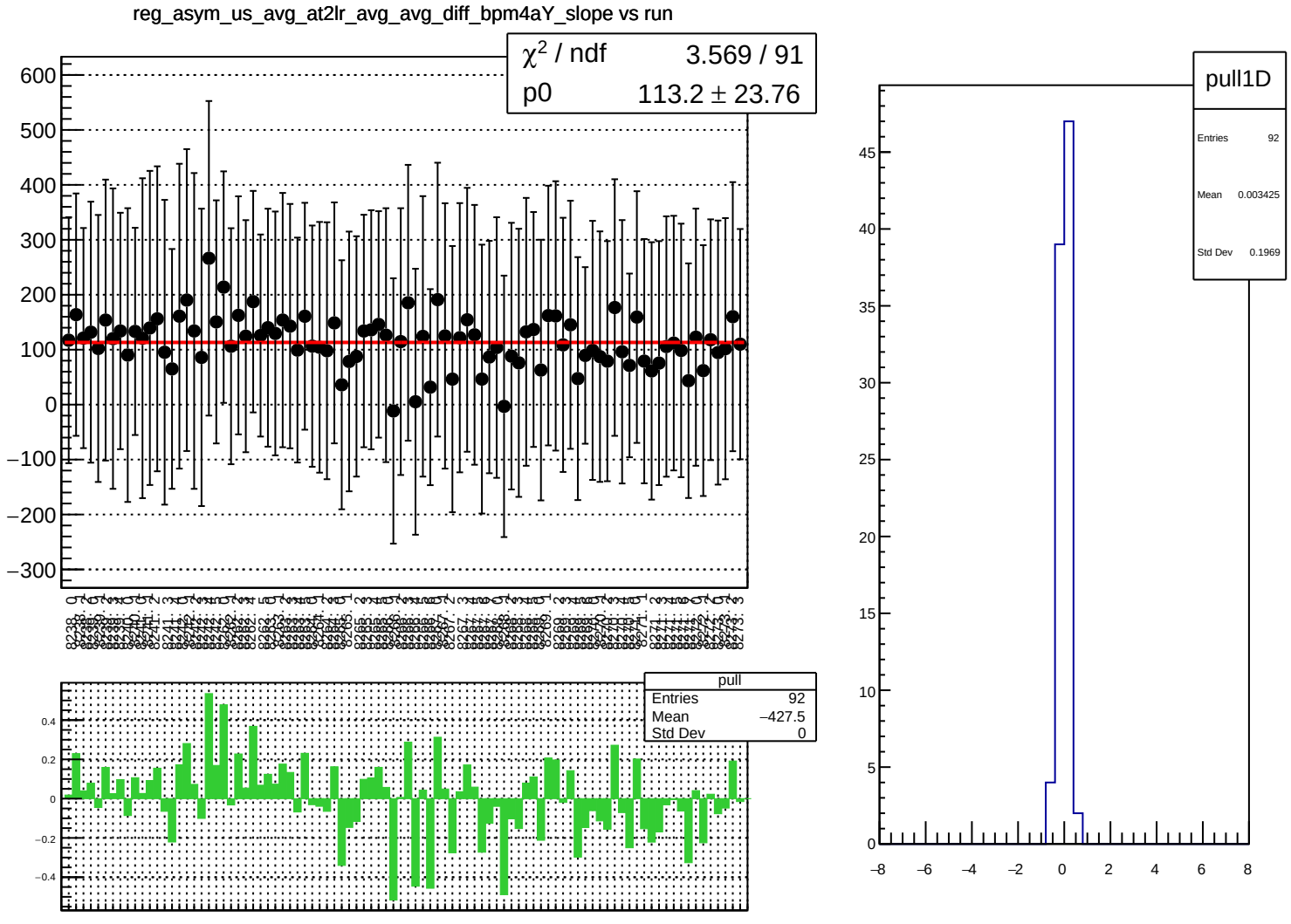

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 112.5 / 91
p0 4.814 ± 3.111
150
100
50
0
−50
−100
pull
Entries 92
Mean −233.6
Std Dev 0
4
3
2
1
0
−1
−2

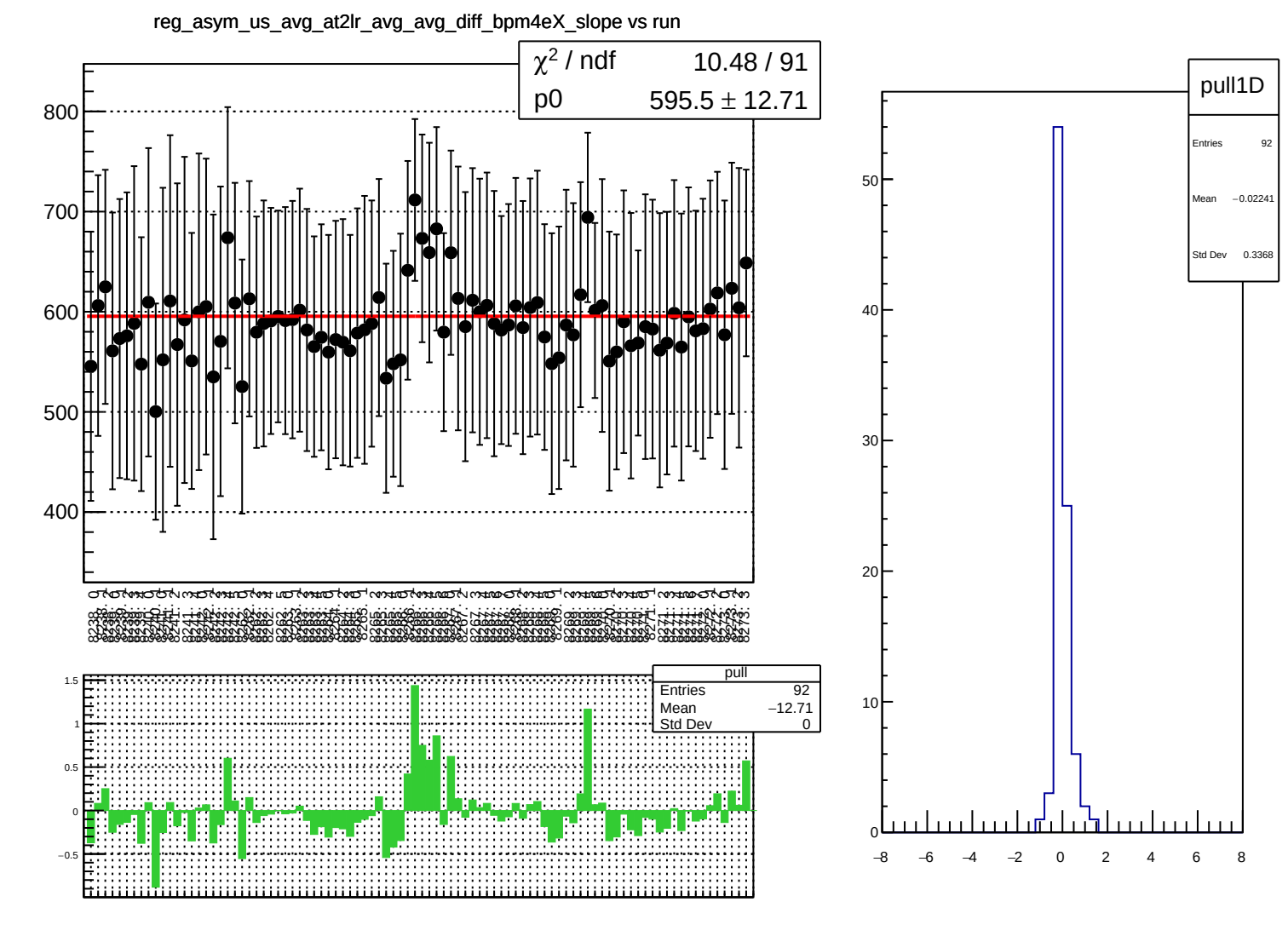

pull1D
Entries 92
Mean 0.01031
Std Dev 1.106
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

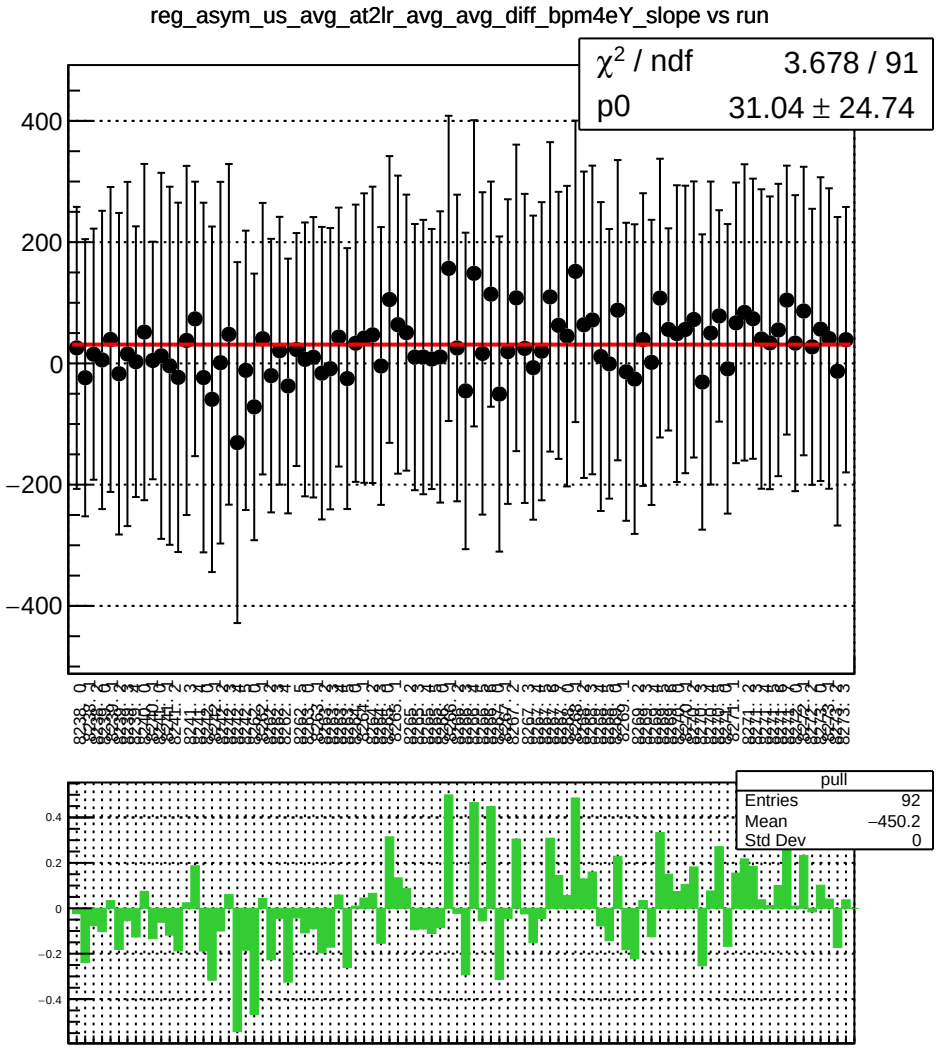

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 177.6 / 91
p0 −2.915 ± 0.1681
pull
Entries 92
Mean −399.5
Std Dev 0

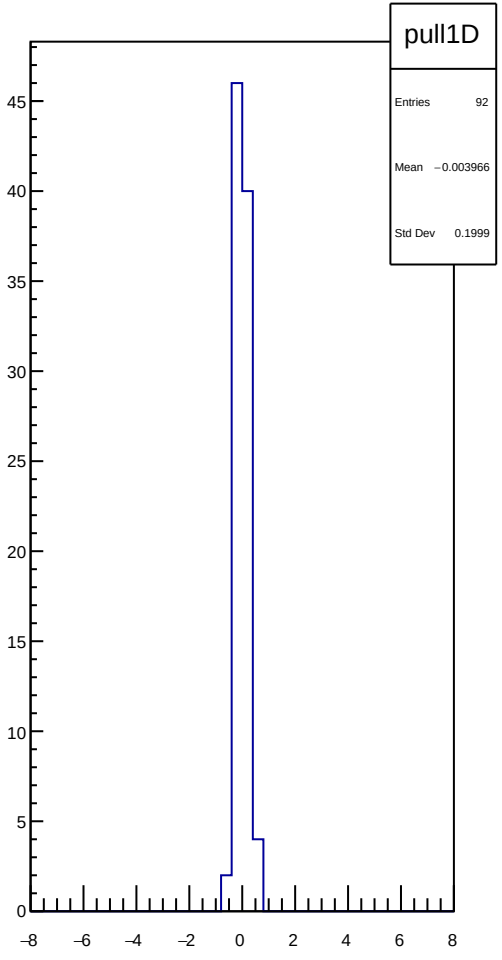

pull1D
Entries 92
Mean −0.02424
Std Dev 1.389

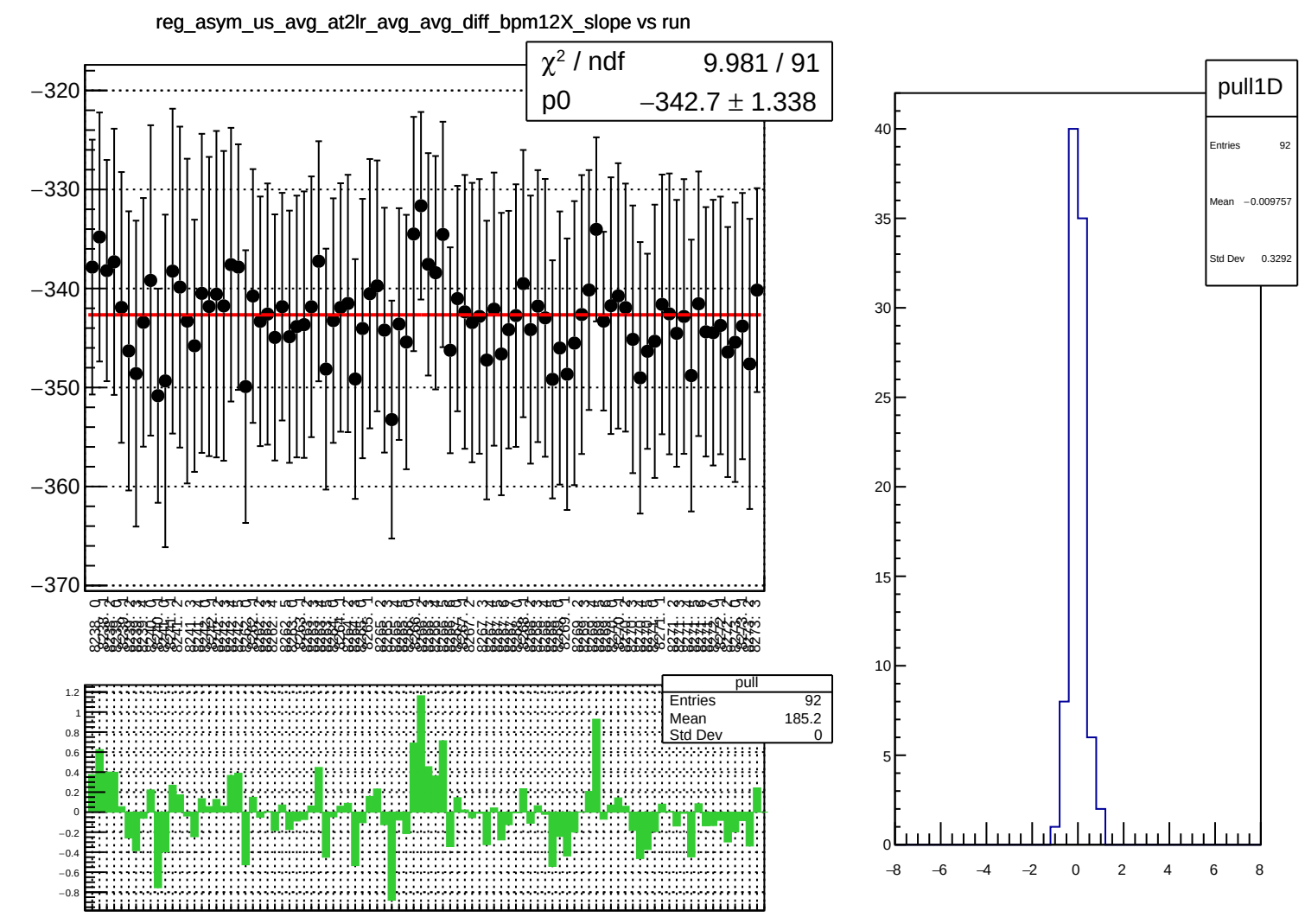

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 9.002 / 91
p0 −638.5 ± 11.17
pull
Entries 92
Mean −15.4
Std Dev 0
pull1D
Entries 92
Mean 0.01379
Std Dev 0.3125

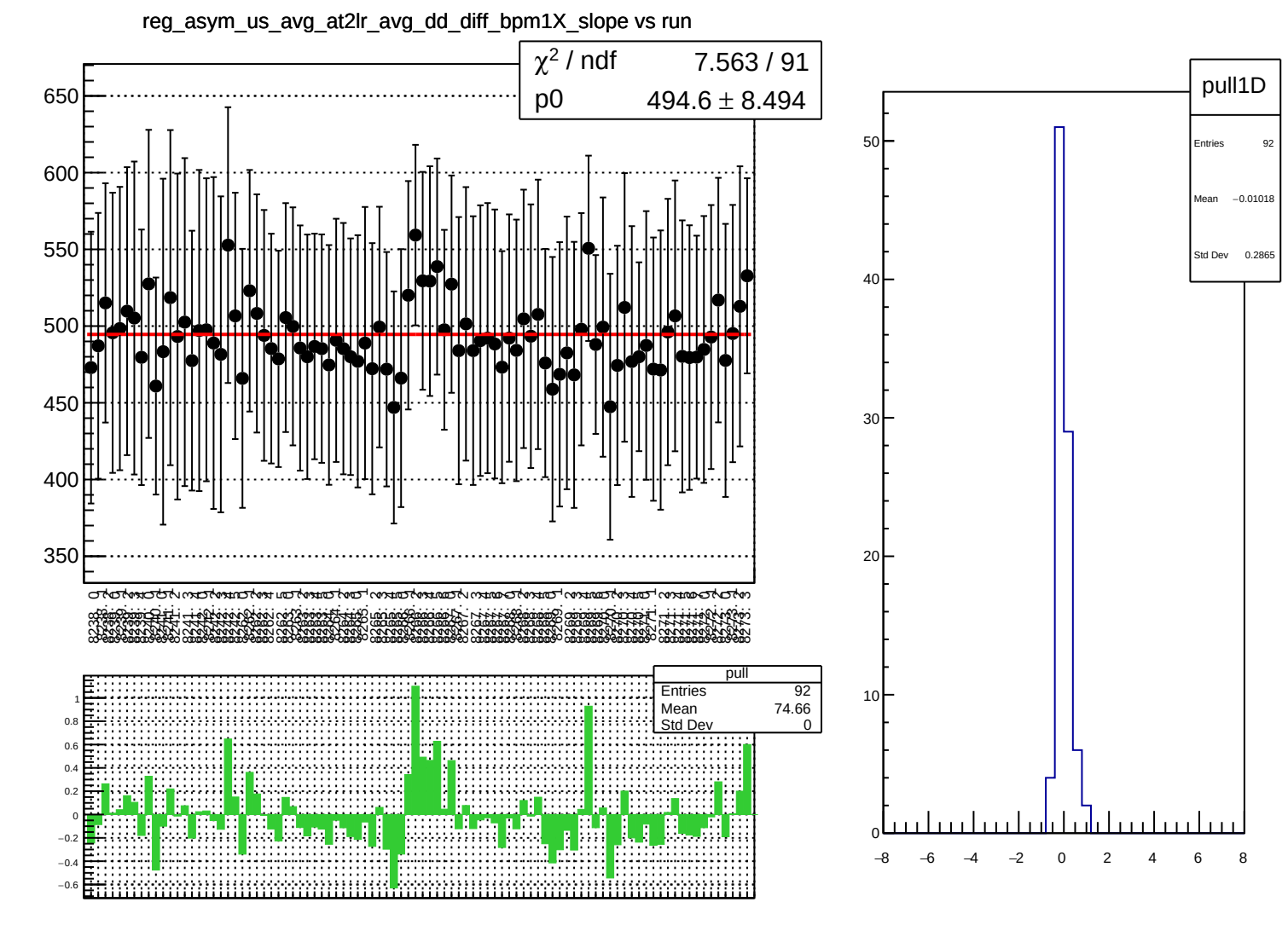

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.569 / 91
p0 113.2 ± 23.76
pull
Entries 92
Mean −427.5
Std Dev 0
pull1D
Entries 92
Mean 0.003425
Std Dev 0.1969

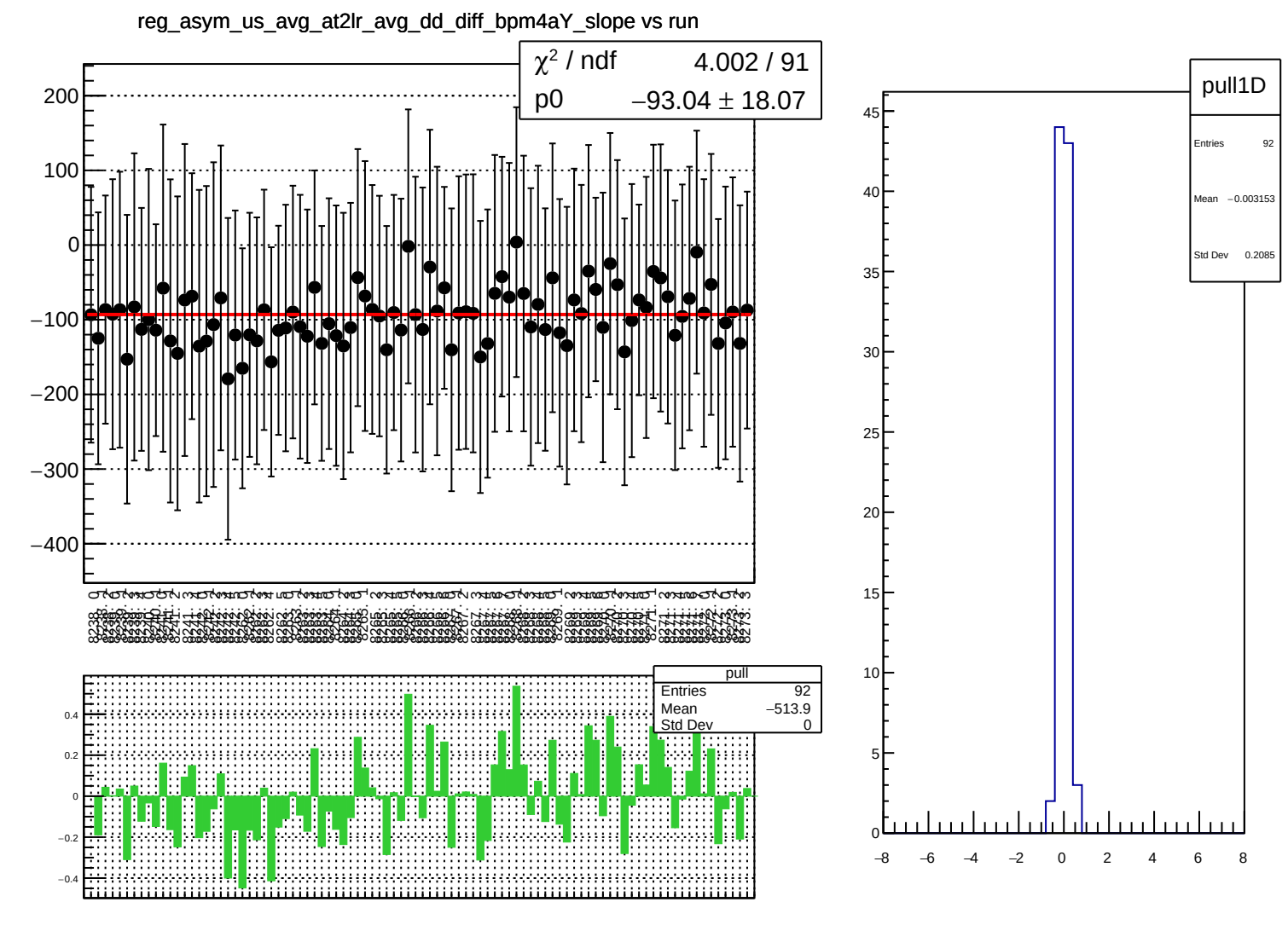

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.48 / 91
p0 595.5 ± 12.71
800
700
600
500
400
pull
Entries 92
Mean −12.71
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 92
Mean −0.02241
Std Dev 0.3368
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

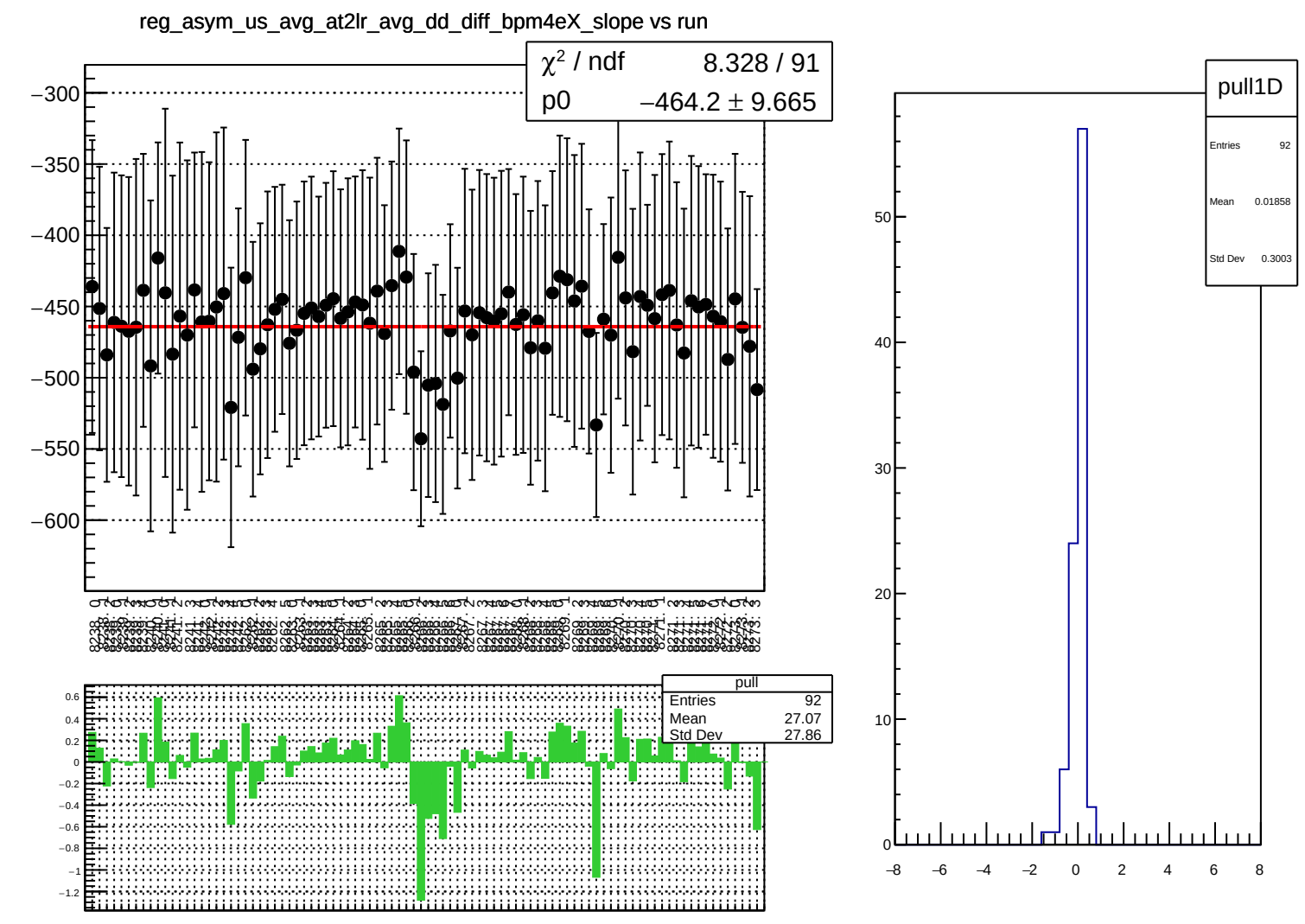

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.678 / 91
p0 31.04 ± 24.74
400
200
0
−200
−400
pull
Entries 92
Mean −450.2
Std Dev 0
0.4
0.2
0
−0.2
−0.4

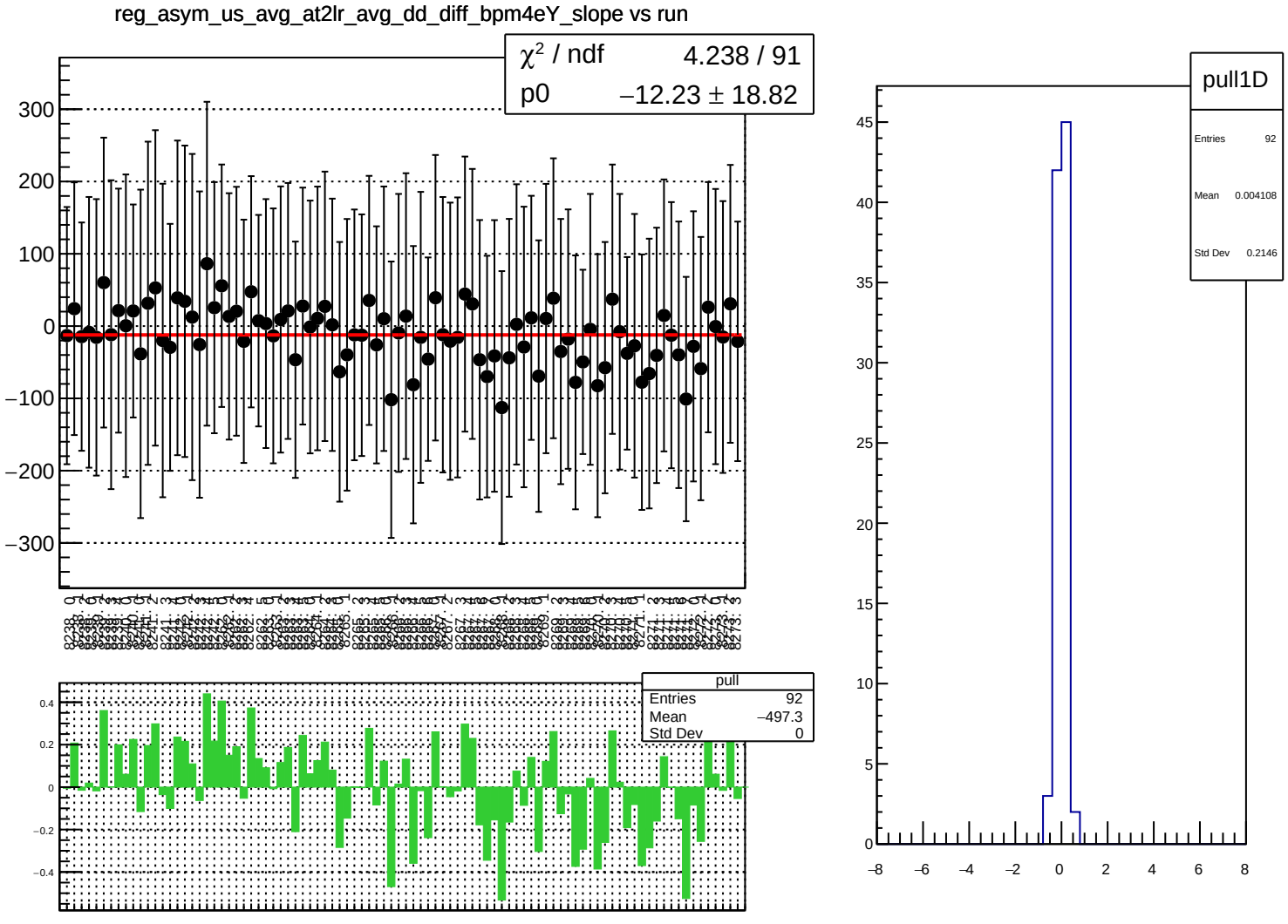

pull1D
Entries 92
Mean −0.003966
Std Dev 0.1999
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

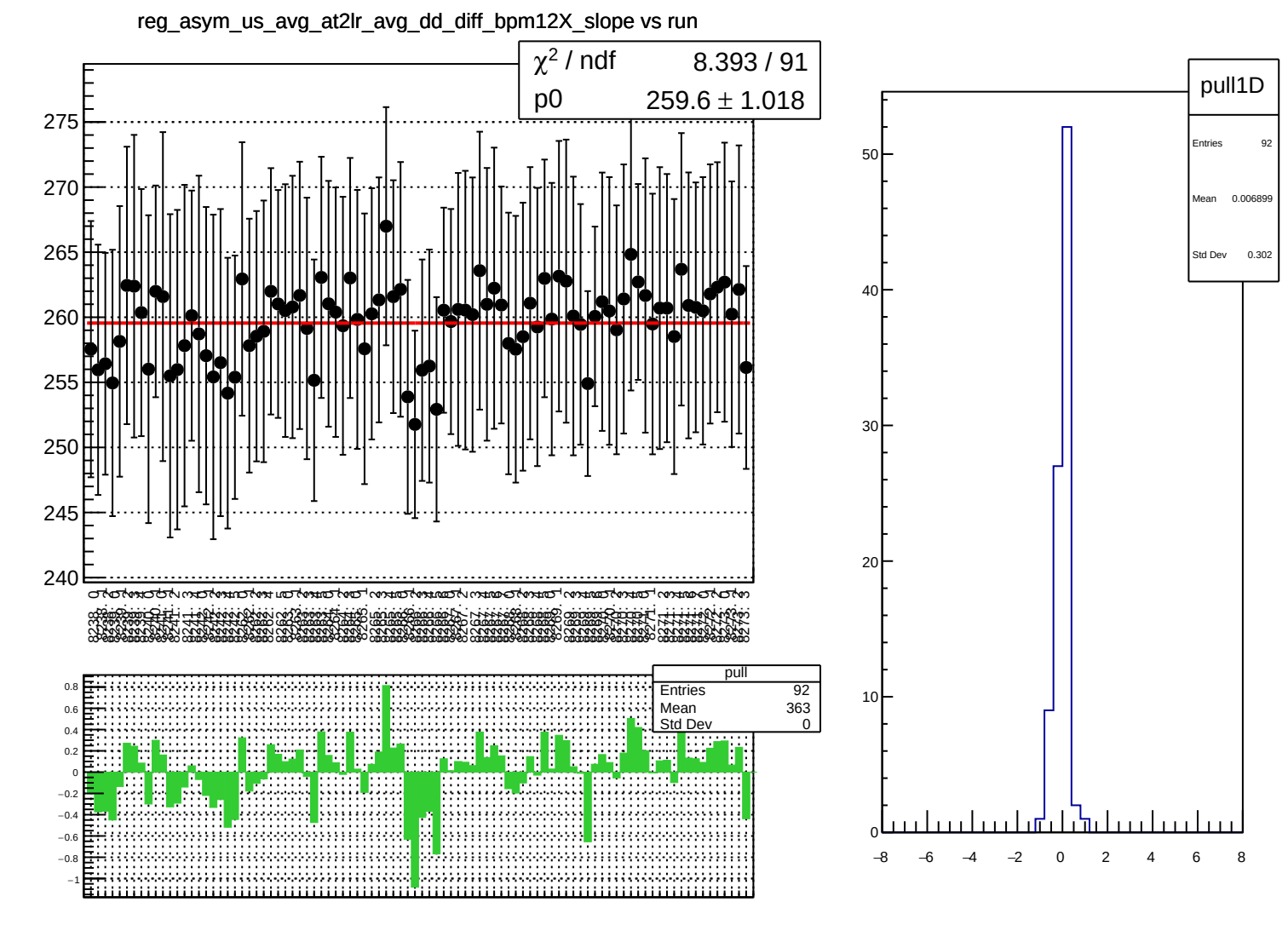

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 9.981 / 91
p0 −342.7 ± 1.338
−320
−330
−340
−350
−360
−370
pull
Entries 92
Mean 185.2
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean −0.009757
Std Dev 0.3292
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

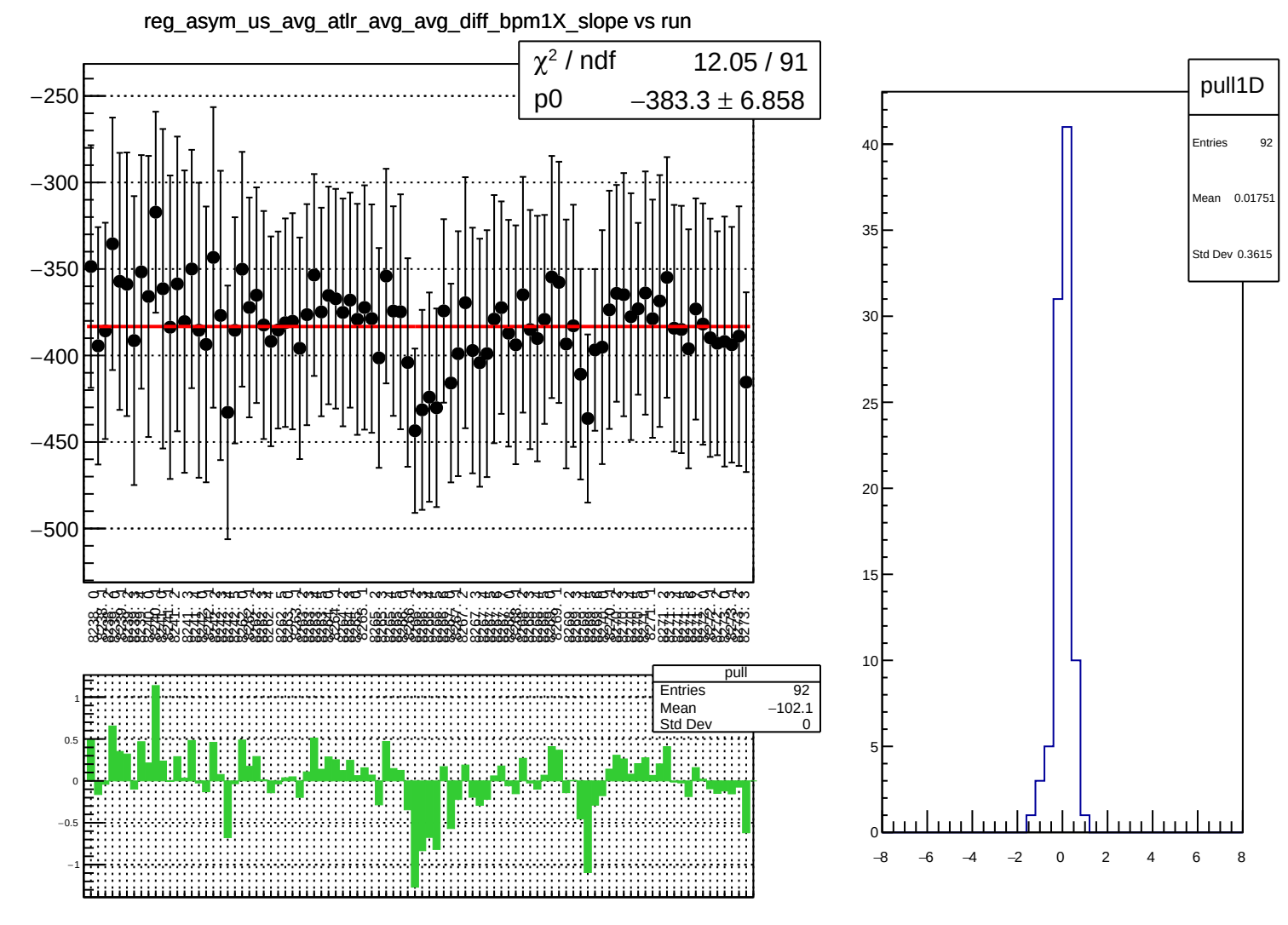

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 7.563 / 91
p0 494.6 ± 8.494
650
600
550
500
450
400
350
pull
Entries 92
Mean 74.66
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean −0.01018
Std Dev 0.2865
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

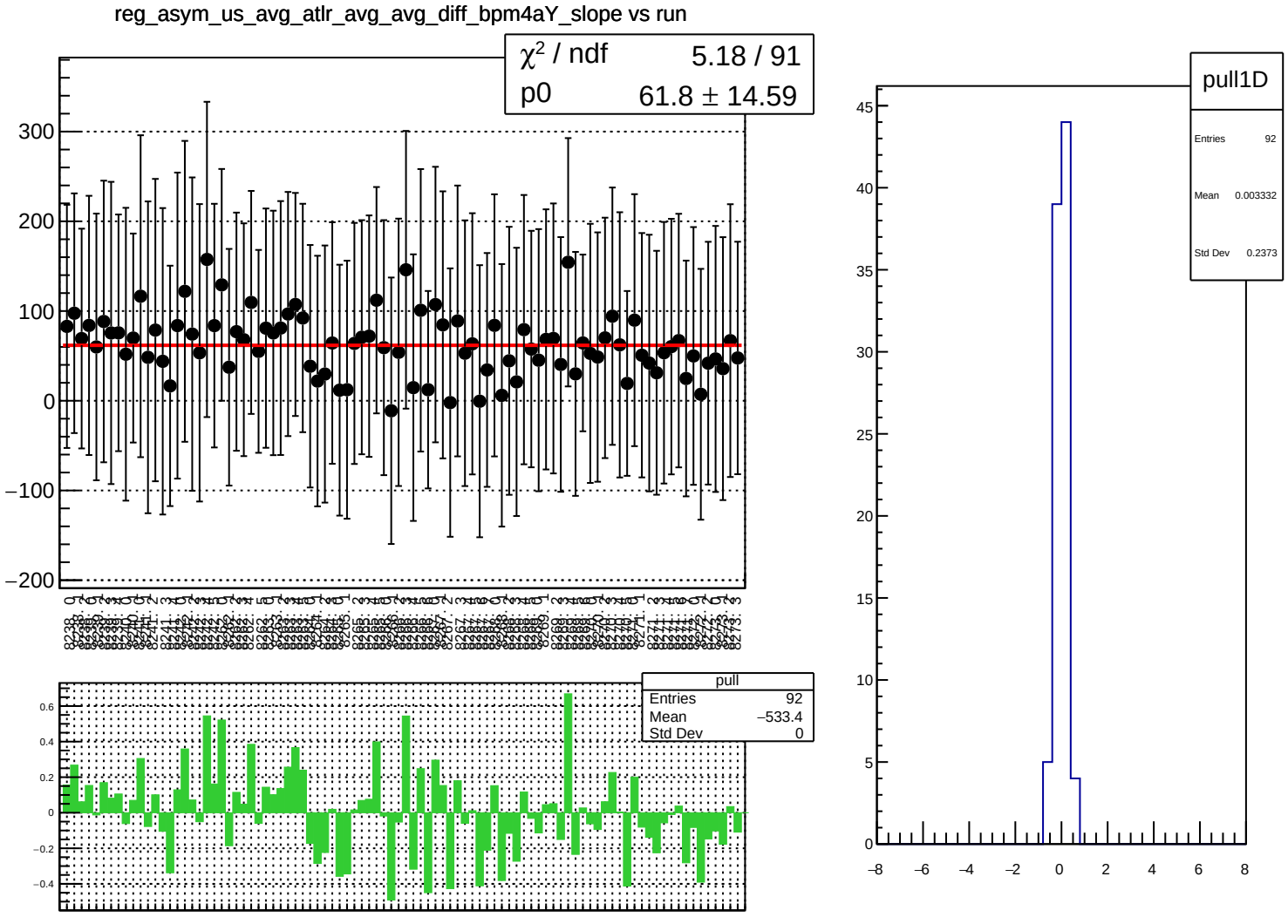

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.002 / 91
p0 −93.04 ± 18.07
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean −513.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 92
Mean −0.003153
Std Dev 0.2085
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

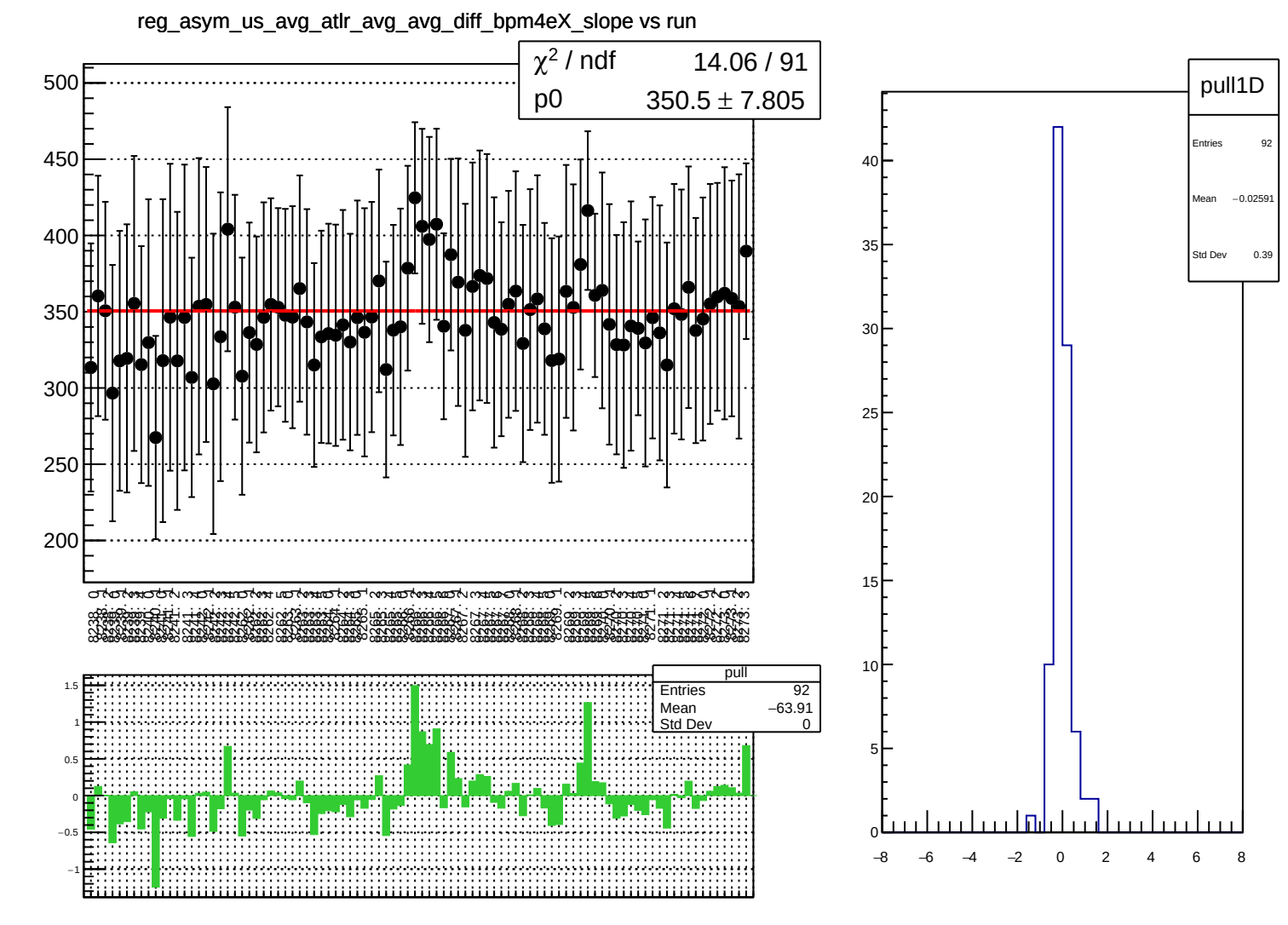

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.328 / 91
p0 −464.2 ± 9.665
−300
−350
−400
−450
−500
−550
−600
pull
Entries 92
Mean 27.07
Std Dev 27.86
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 92
Mean 0.01858
Std Dev 0.3003
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

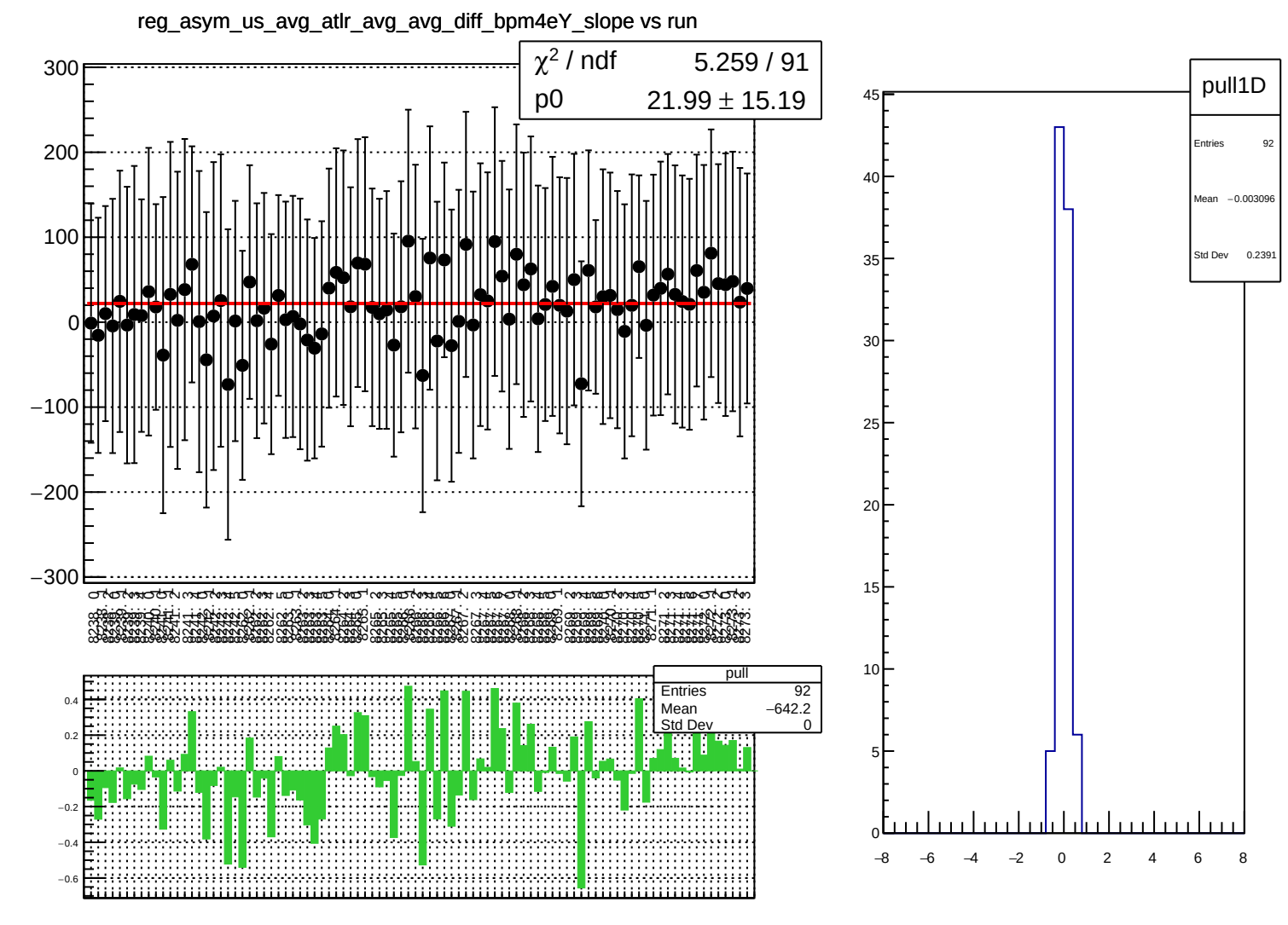

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.238 / 91
p0 −12.23 ± 18.82
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean −497.3
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 92
Mean 0.004108
Std Dev 0.2146
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

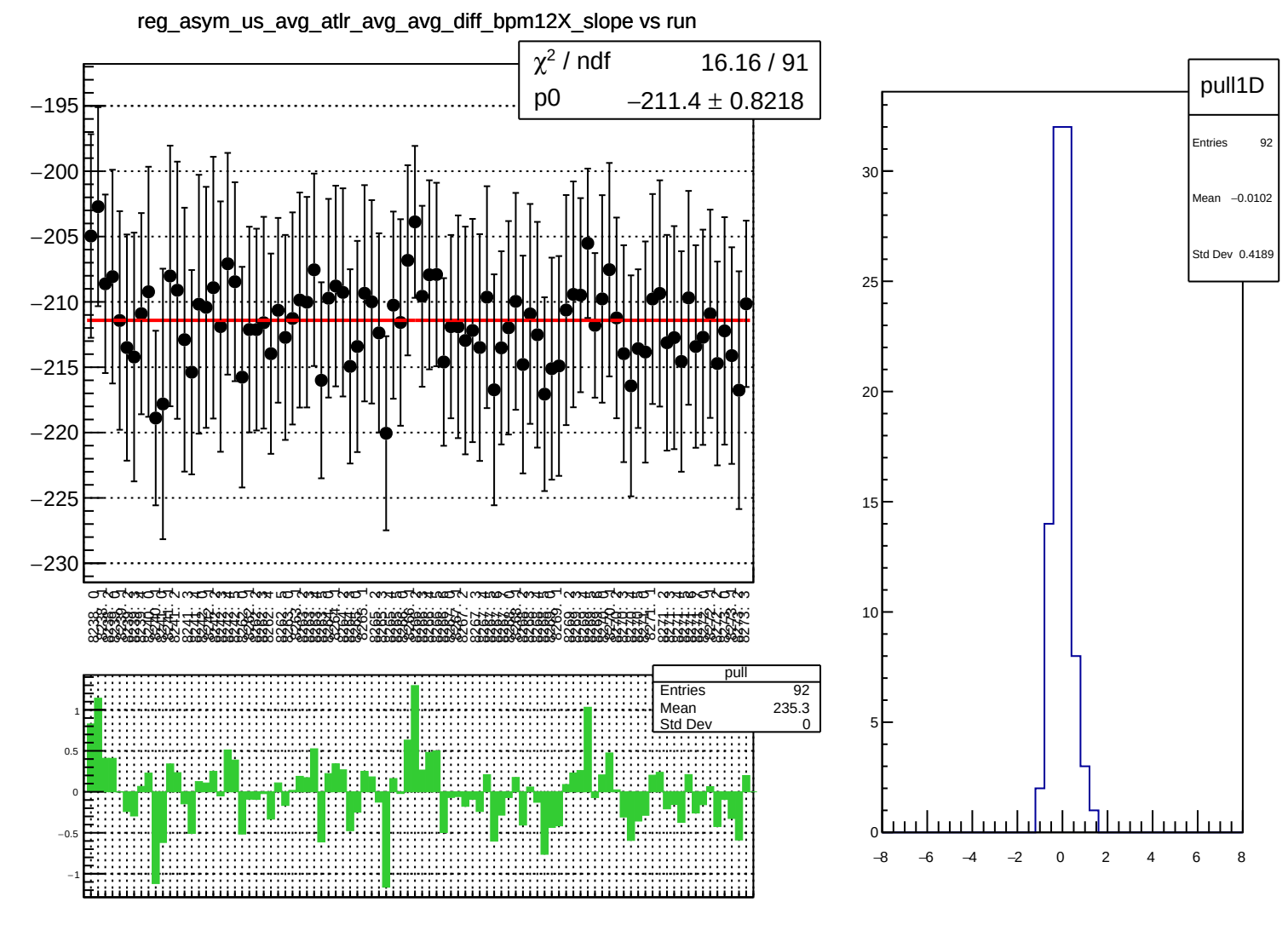

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 8.393 / 91
p0 259.6 ± 1.018
pull
Entries 92
Mean 363
Std Dev 0
pull1D
Entries 92
Mean 0.006899
Std Dev 0.302

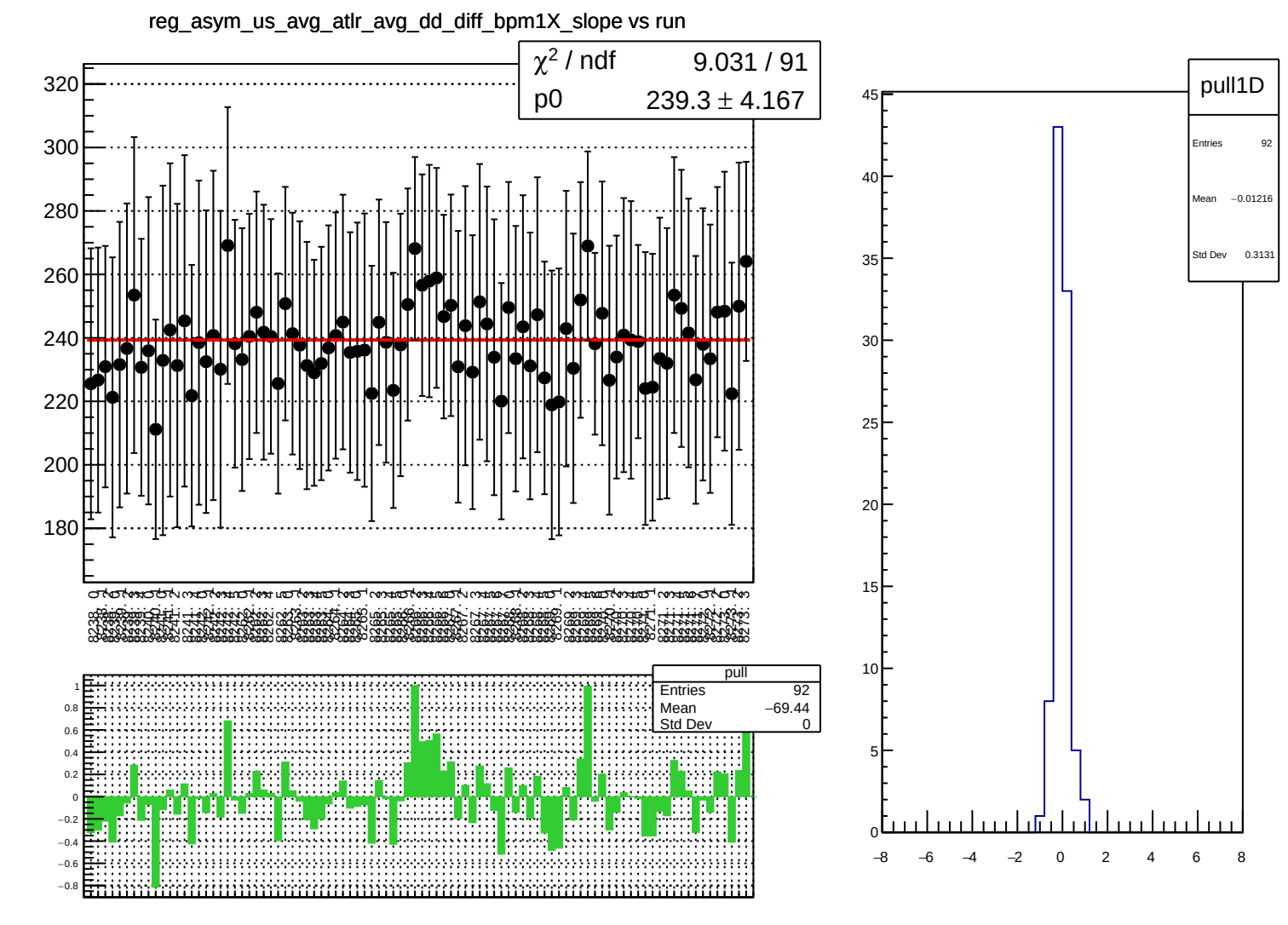

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 12.05 / 91
p0 −383.3 ± 6.858
−250
−300
−350
−400
−450
−500
pull
Entries 92
Mean −102.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean 0.01751
Std Dev 0.3615
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

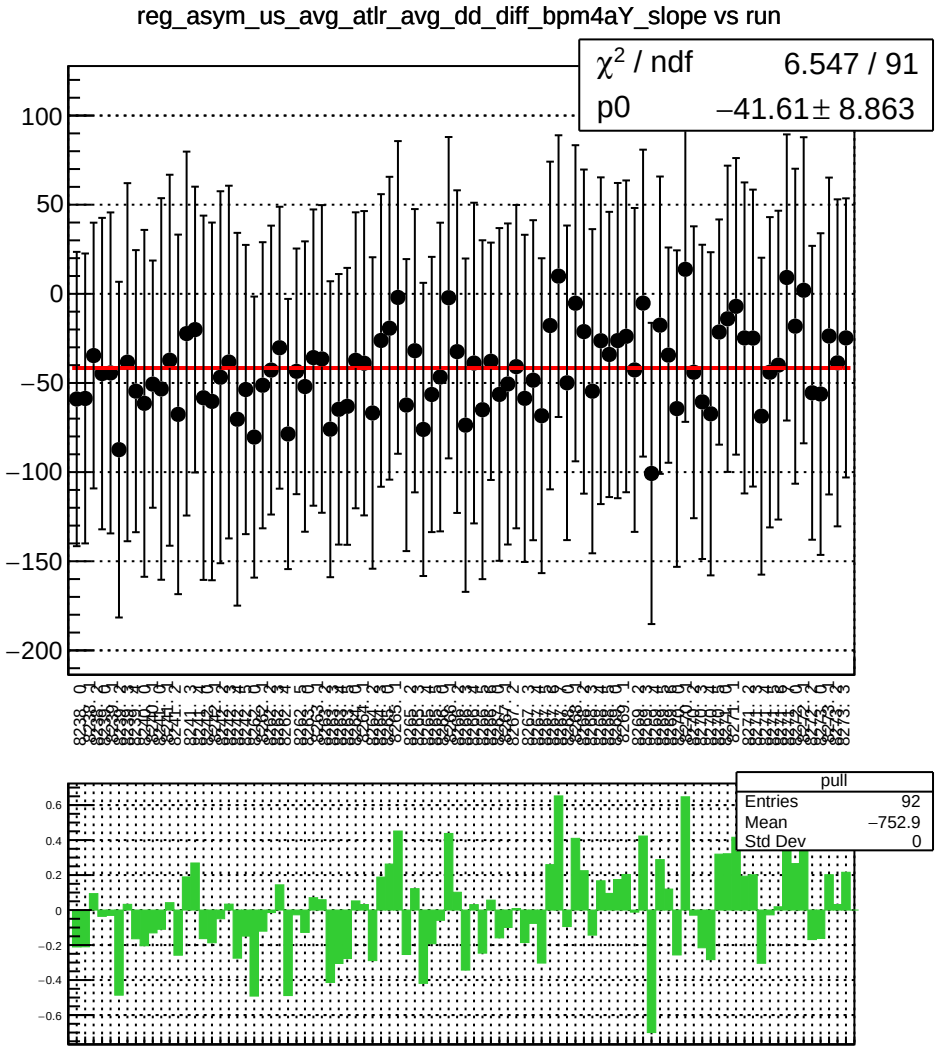

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.18 / 91
p0 61.8 ± 14.59
300
200
100
0
−100
−200
pull
Entries 92
Mean −533.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 92
Mean 0.003332
Std Dev 0.2373
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

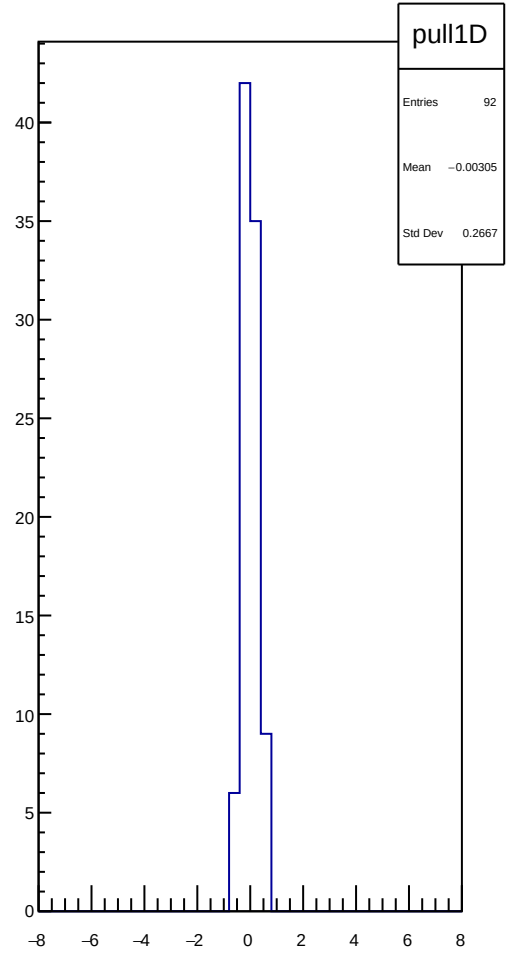

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.06 / 91
p0 350.5 ± 7.805
pull
Entries 92
Mean −63.91
Std Dev 0
pull1D
Entries 92
Mean −0.02591
Std Dev 0.39

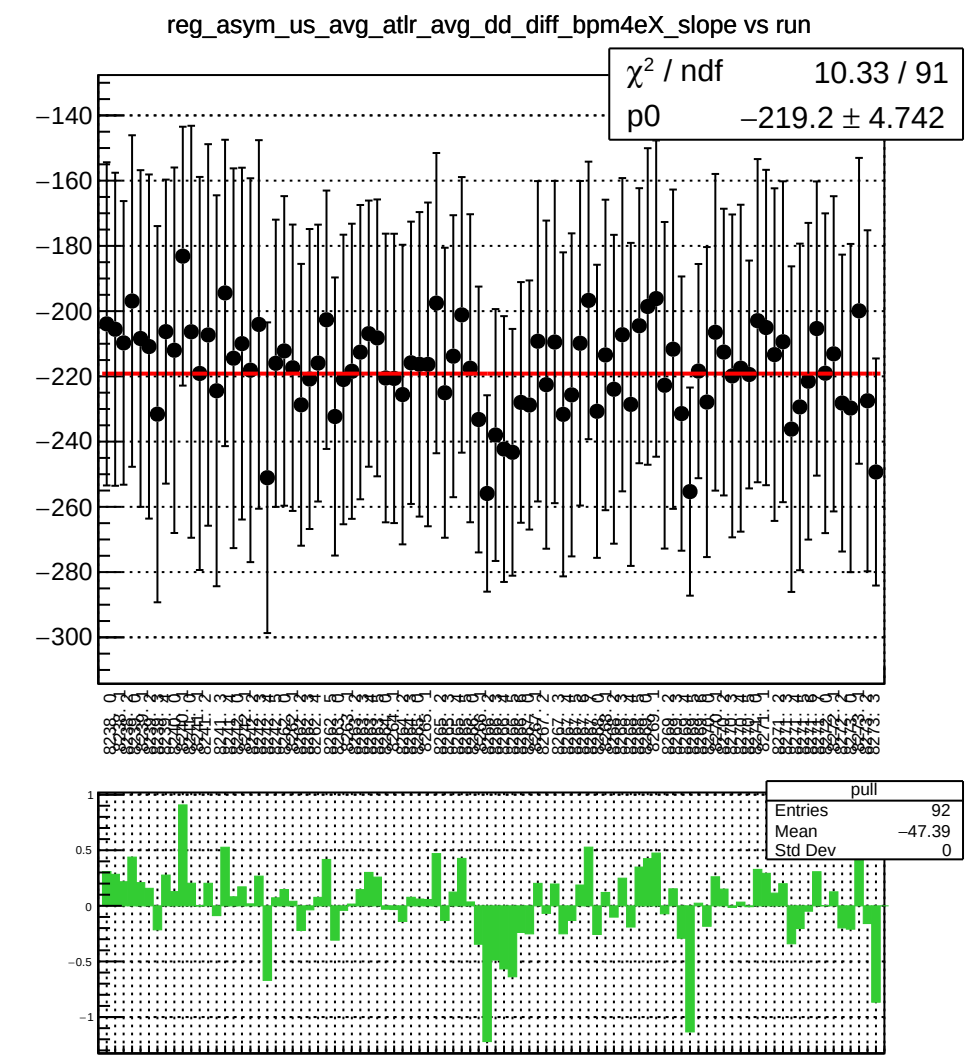

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.259 / 91
p0 21.99 ± 15.19
pull
Entries 92
Mean −642.2
Std Dev 0
pull1D
Entries 92
Mean −0.003096
Std Dev 0.2391

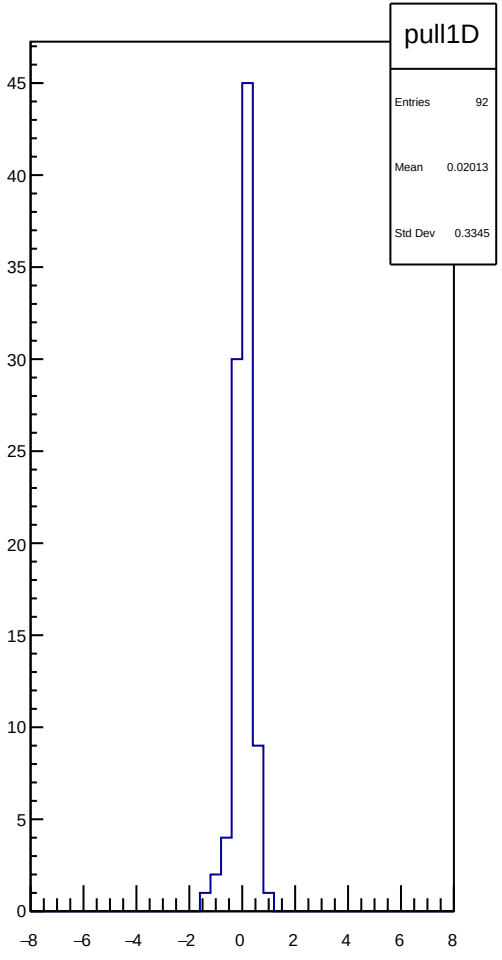

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 16.16 / 91
p0 −211.4 ± 0.8218
pull
Entries 92
Mean 235.3
Std Dev 0
pull1D
Entries 92
Mean −0.0102
Std Dev 0.4189

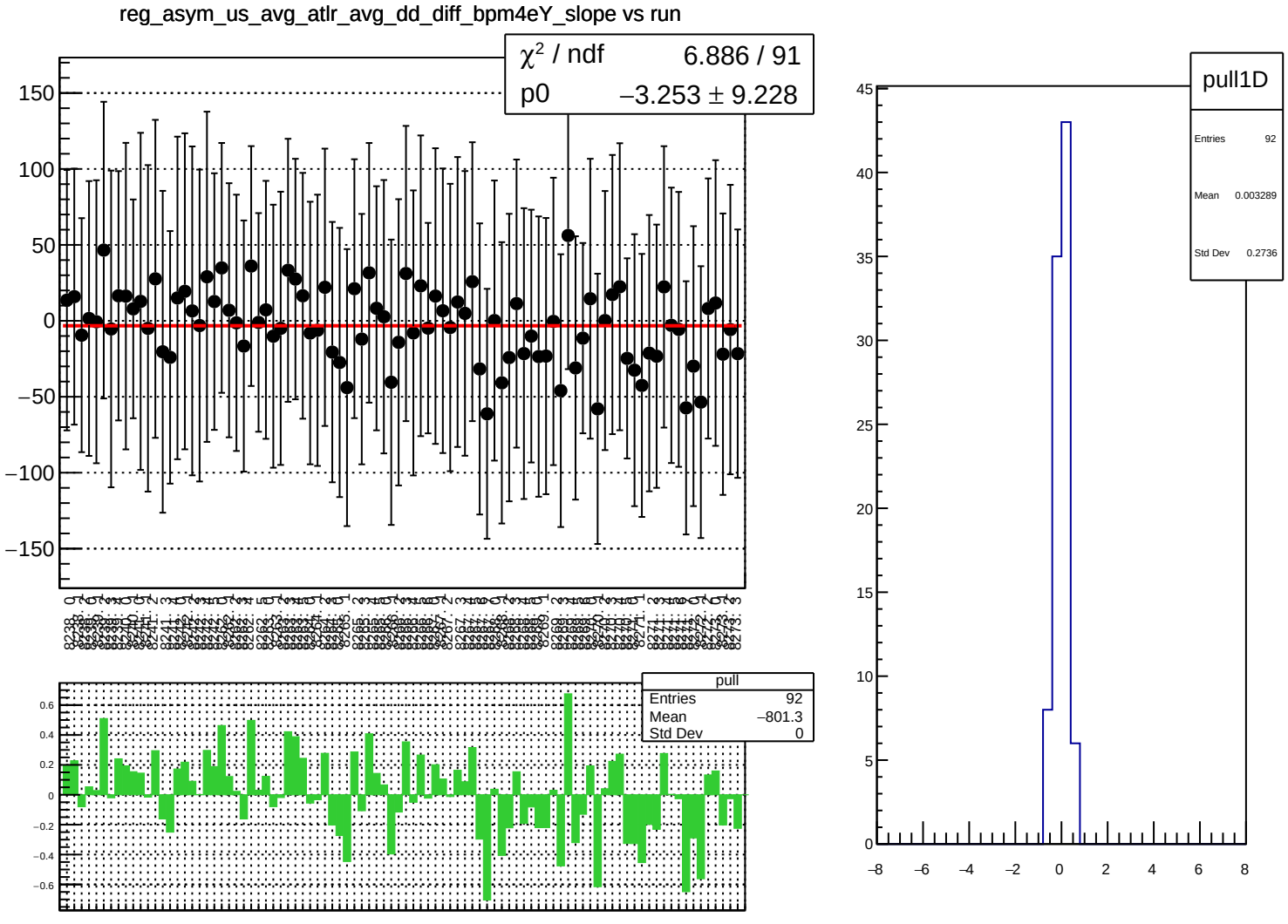

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 9.031 / 91
p0 239.3 ± 4.167
320
300
280
260
240
220
200
180
pull
Entries 92
Mean −69.44
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean −0.01216
Std Dev 0.3131
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

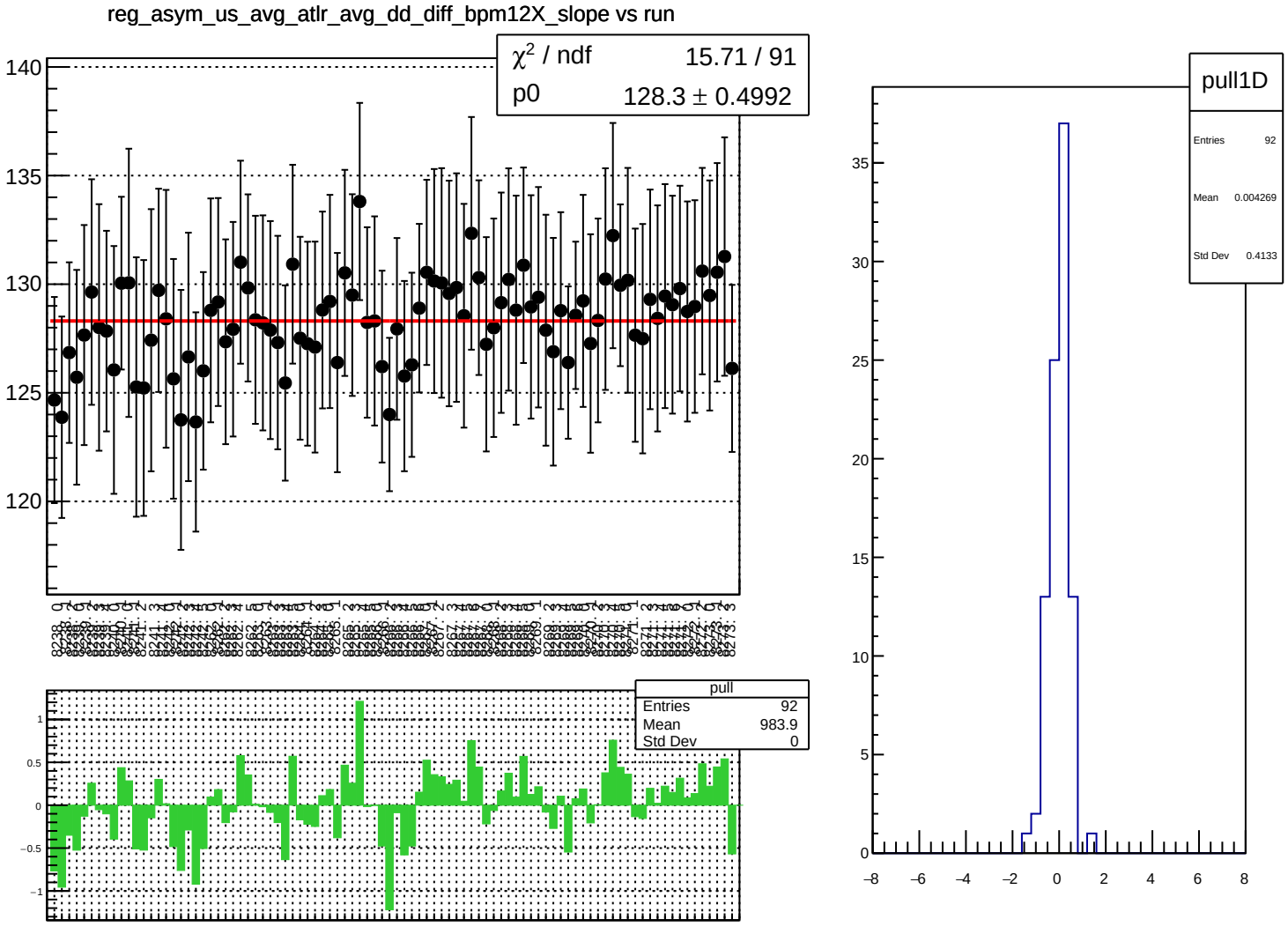

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.547 / 91
p0 −41.61 ± 8.863
pull
Entries 92
Mean −752.9
Std Dev 0

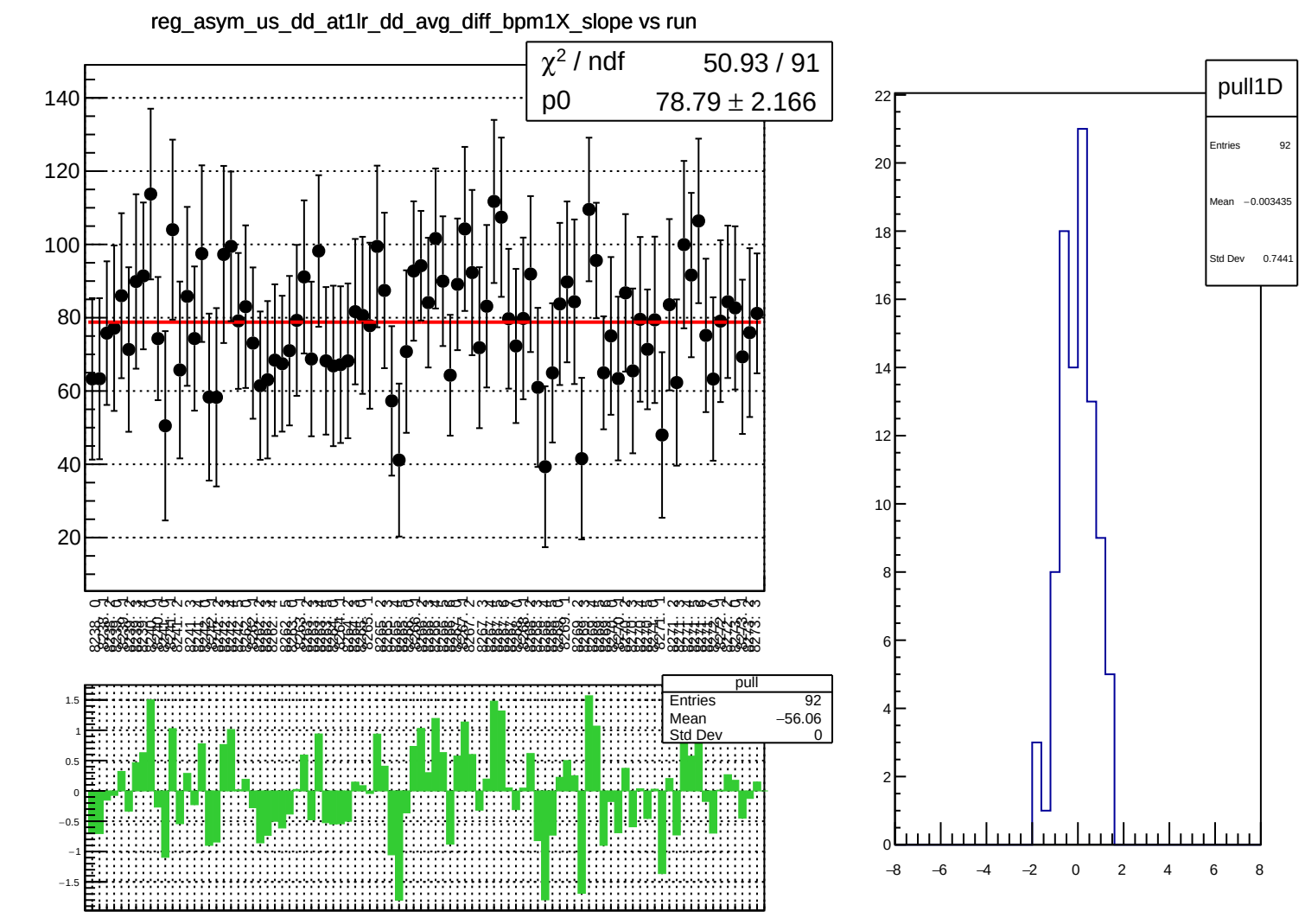

pull1D
Entries 92
Mean −0.00305
Std Dev 0.2667

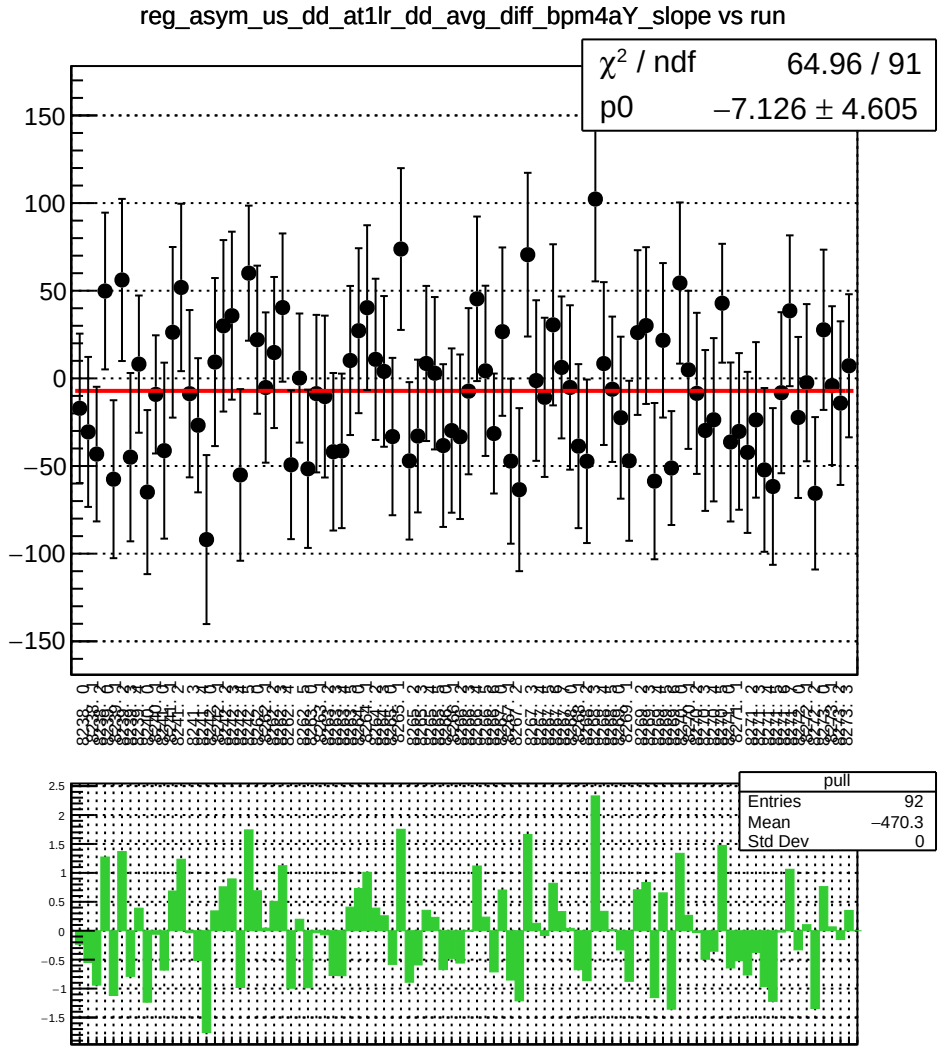

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.33 / 91
p0 −219.2 ± 4.742
pull
Entries 92
Mean −47.39
Std Dev 0

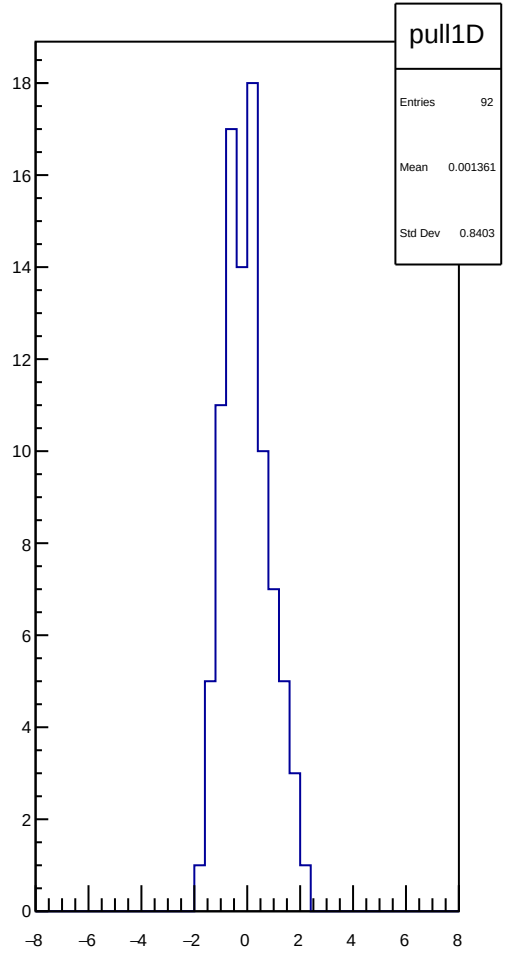

pull1D
Entries 92
Mean 0.02013
Std Dev 0.3345

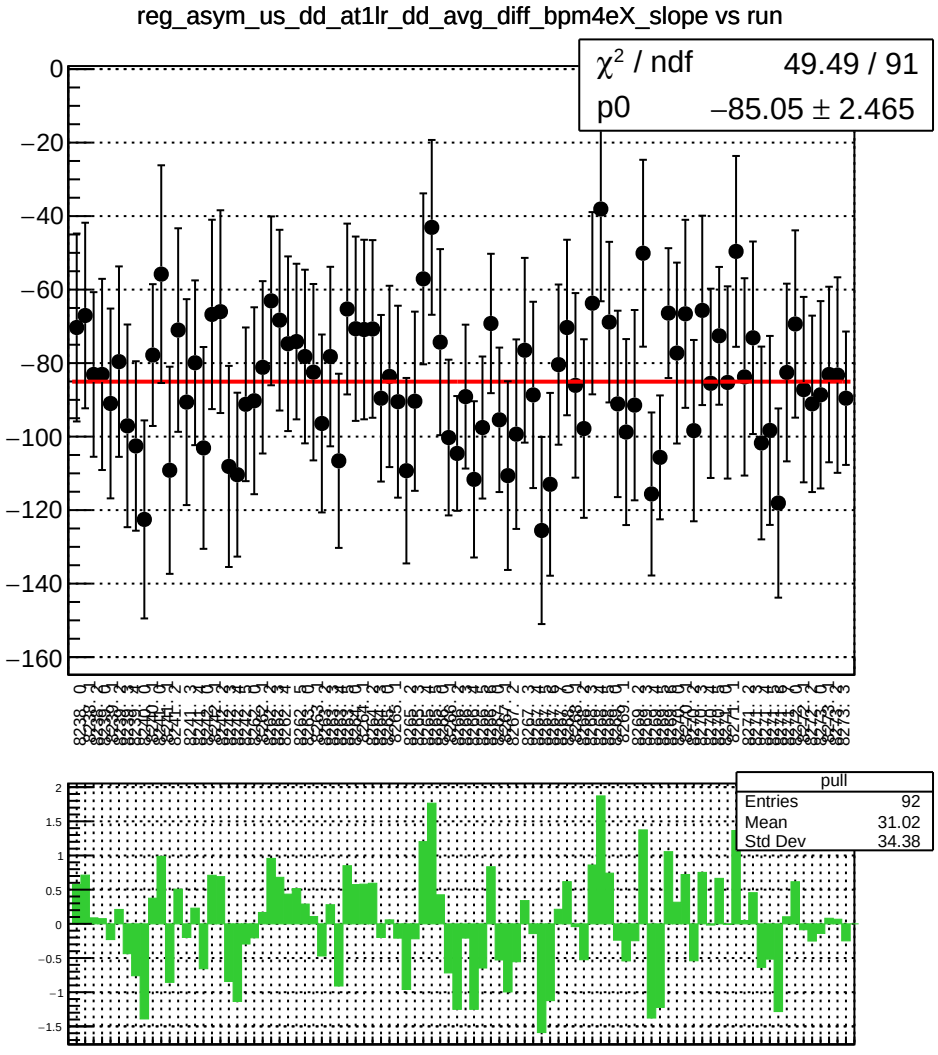

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.886 / 91
p0 −3.253 ± 9.228
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −801.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean 0.003289
Std Dev 0.2736
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

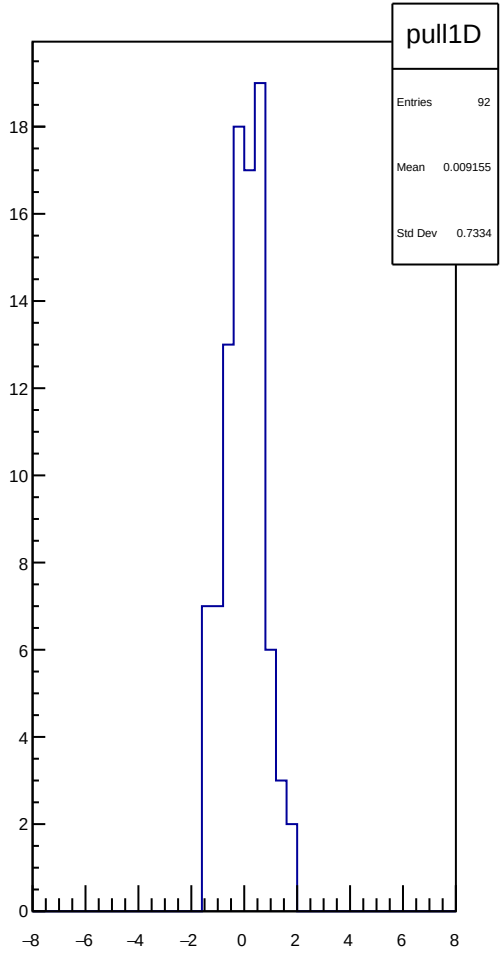

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 15.71 / 91
p0 128.3 ± 0.4992
140
135
130
125
120
pull
Entries 92
Mean 983.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean 0.004269
Std Dev 0.4133
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

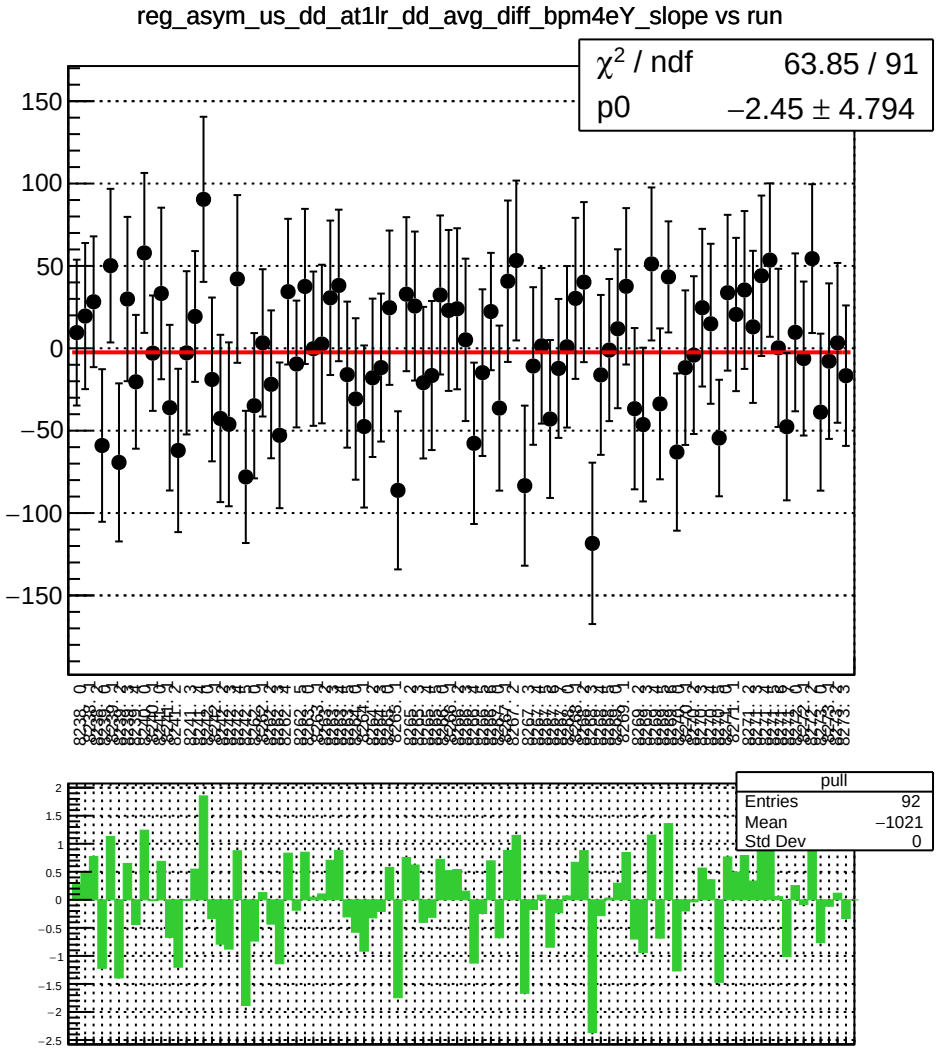

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 50.93 / 91
p0 78.79 ± 2.166
pull
Entries 92
Mean −56.06
Std Dev 0
pull1D
Entries 92
Mean −0.003435
Std Dev 0.7441

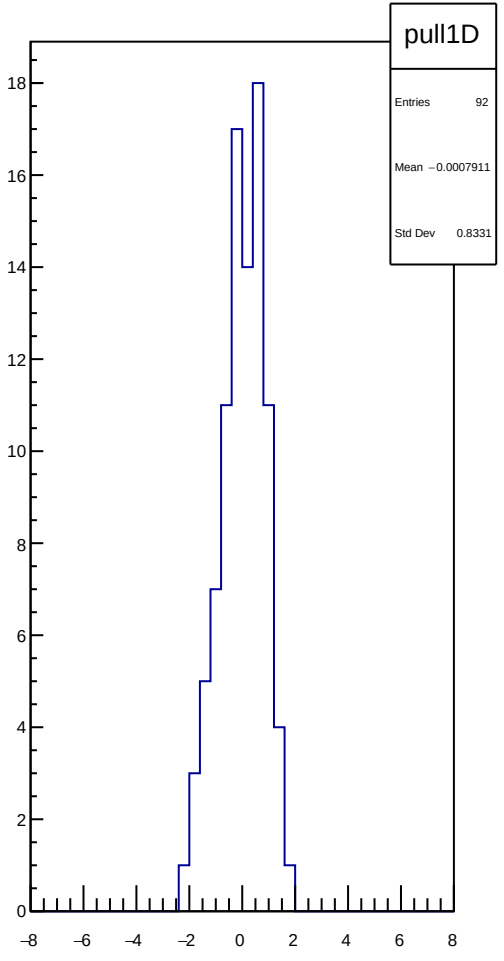

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 64.96 / 91
p0 −7.126 ± 4.605
pull
Entries 92
Mean −470.3
Std Dev 0

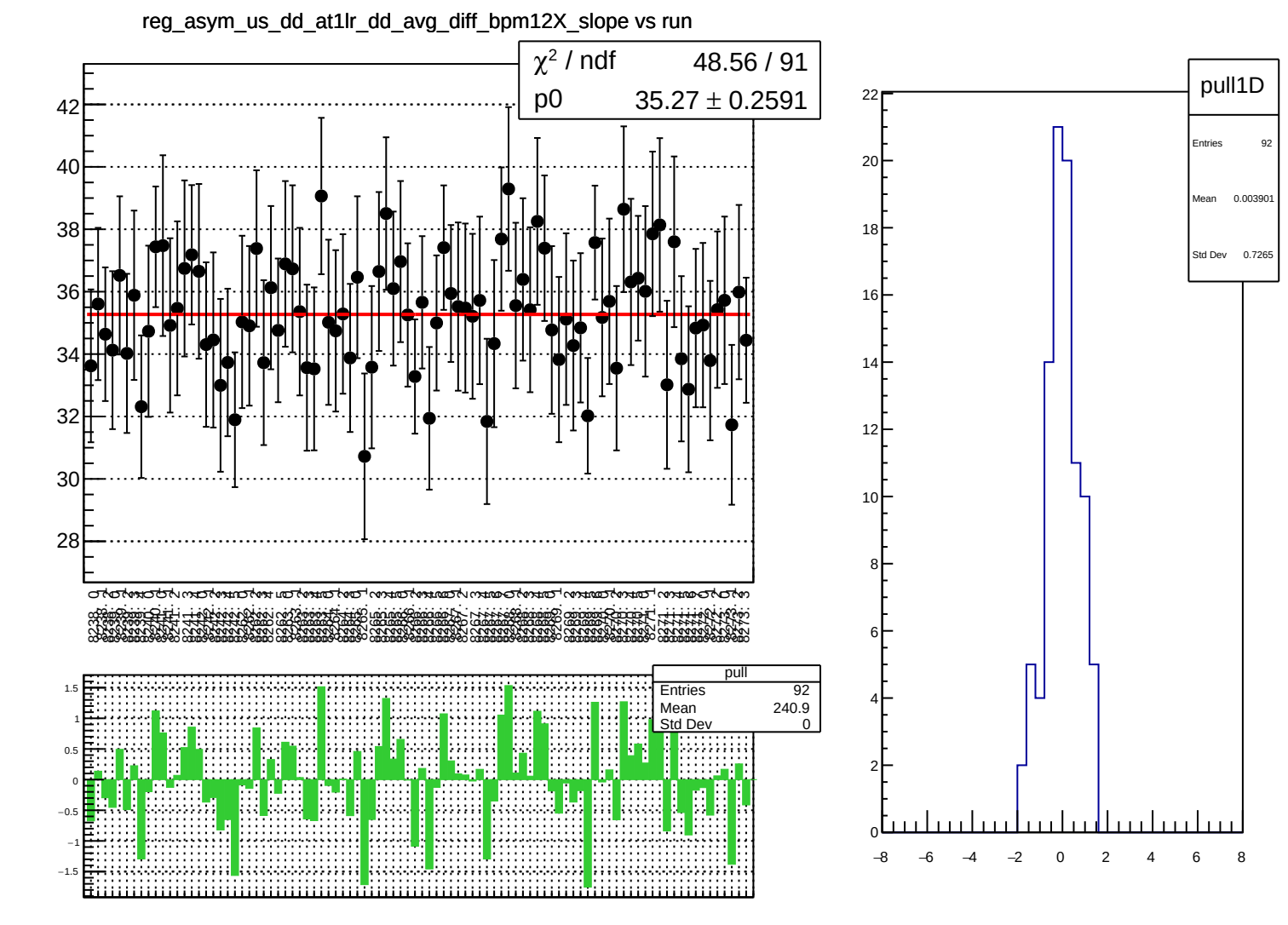

pull1D
Entries 92
Mean 0.001361
Std Dev 0.8403

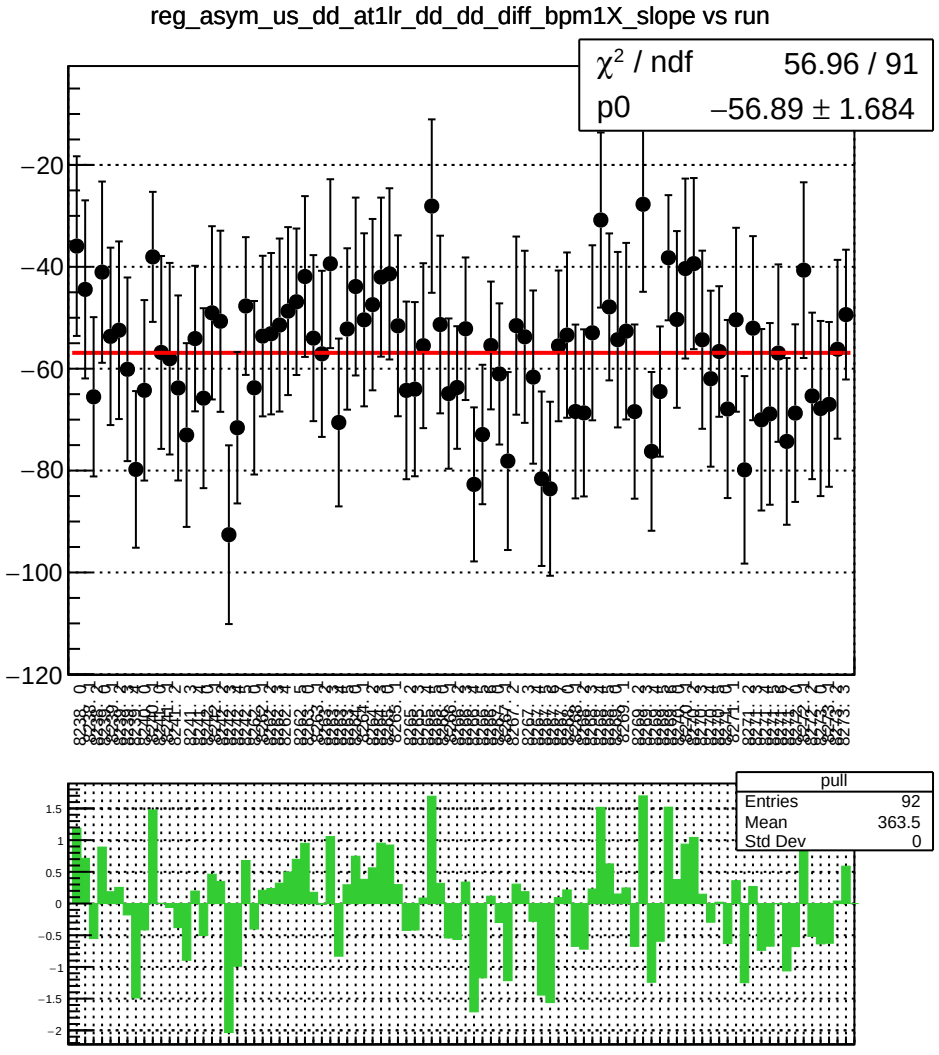

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.49 / 91
p0 −85.05 ± 2.465
pull
Entries 92
Mean 31.02
Std Dev 34.38

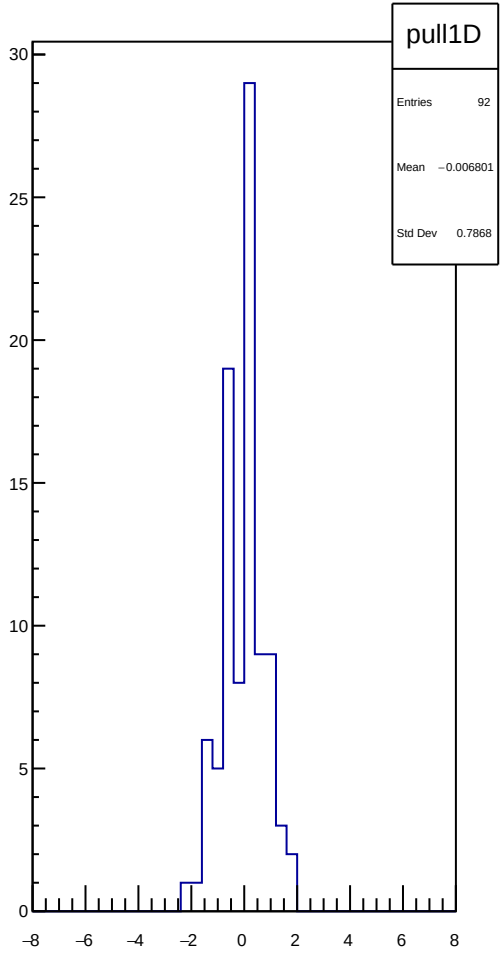

pull1D
Entries 92
Mean 0.009155
Std Dev 0.7334

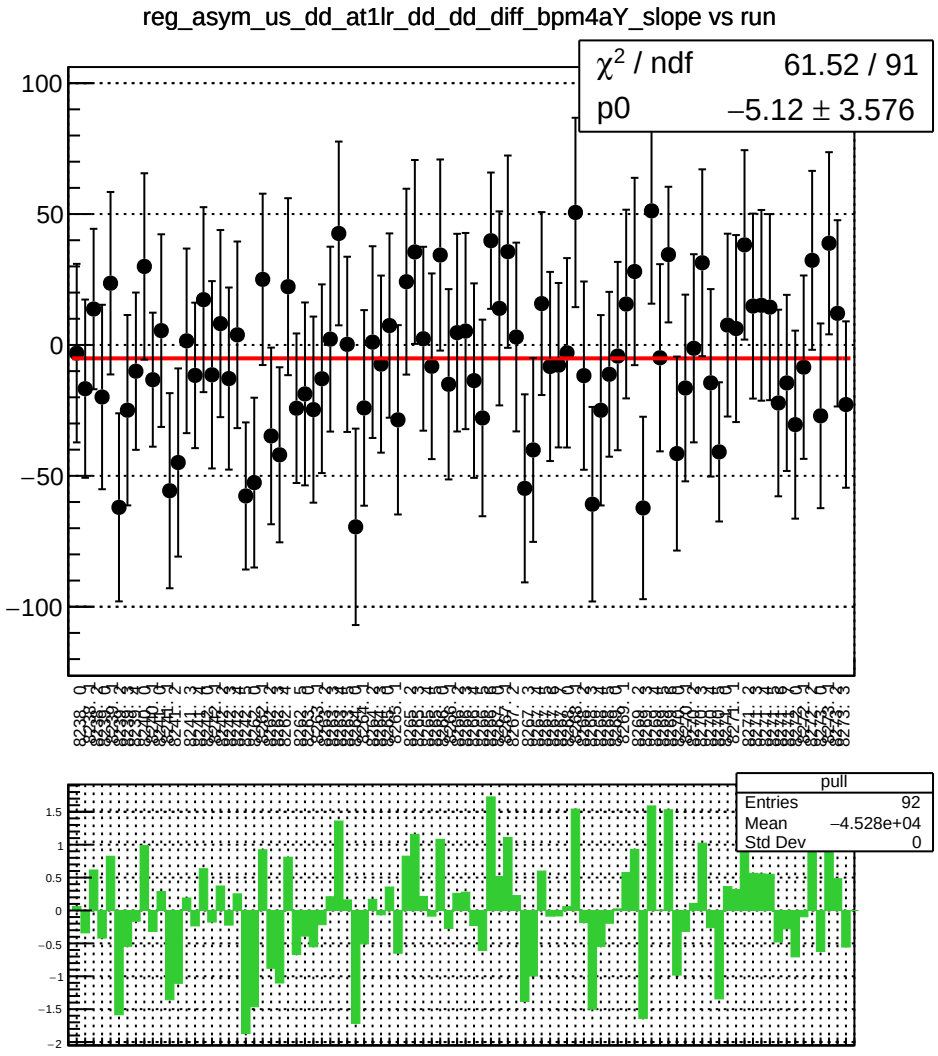

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 63.85 / 91
p0 −2.45 ± 4.794
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −1021
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

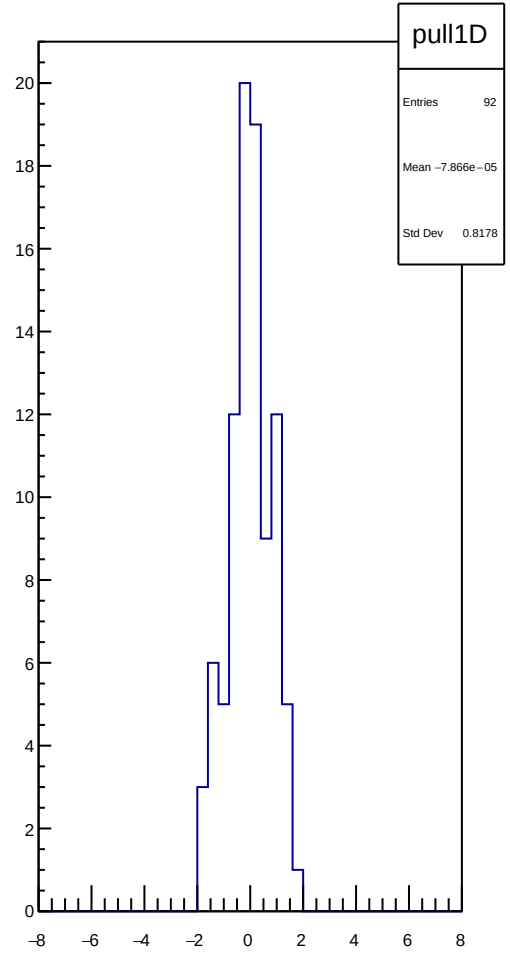

pull1D
Entries 92
Mean −0.0007911
Std Dev 0.8331
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

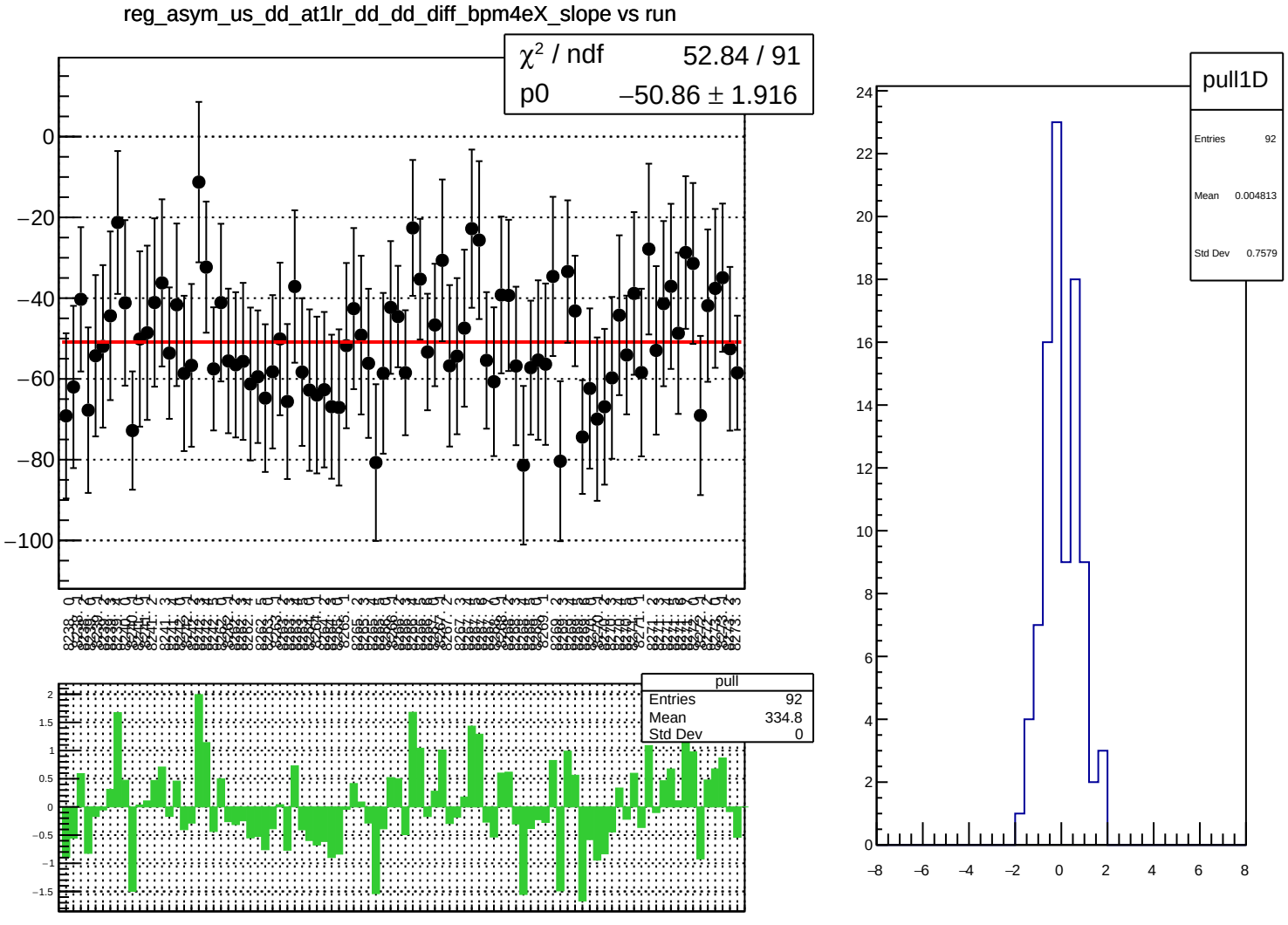

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 48.56 / 91
p0 35.27 ± 0.2591
pull
Entries 92
Mean 240.9
Std Dev 0
pull1D
Entries 92
Mean 0.003901
Std Dev 0.7265

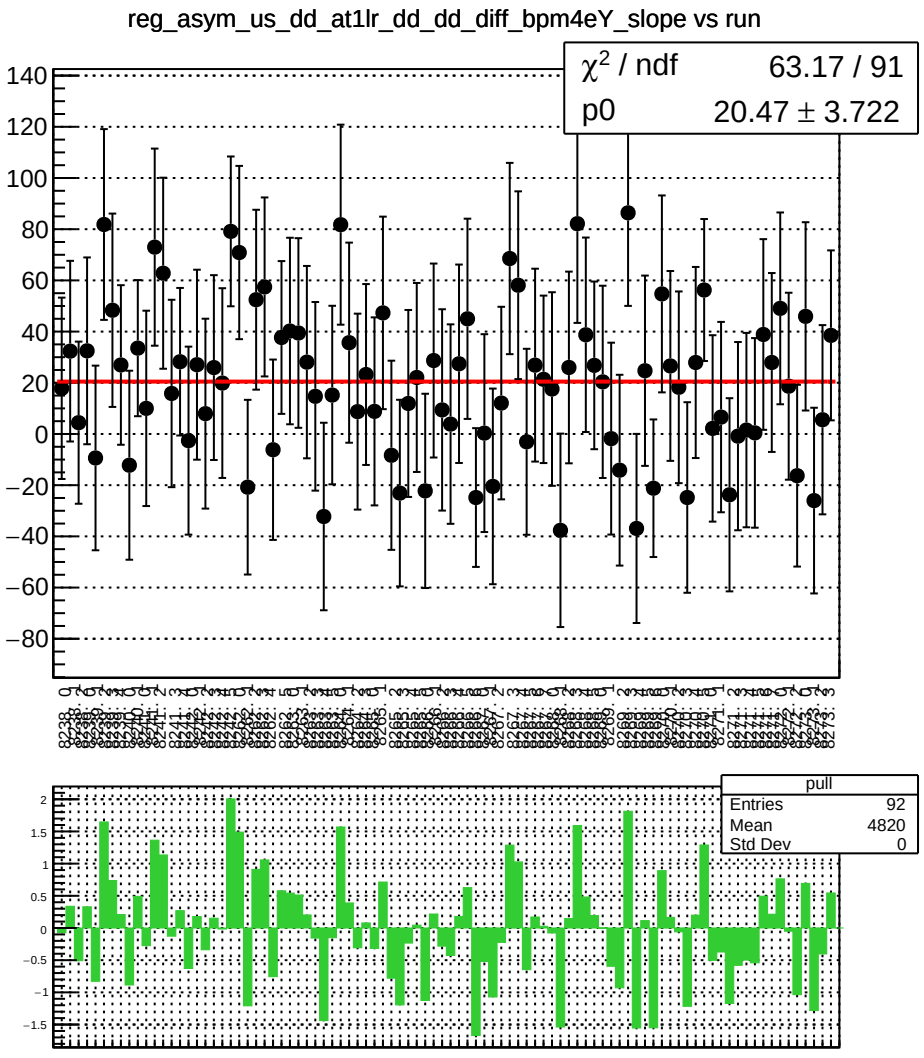

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 56.96 / 91
p0 −56.89 ± 1.684
−20
−40
−60
−80
−100
−120
pull
Entries 92
Mean 363.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

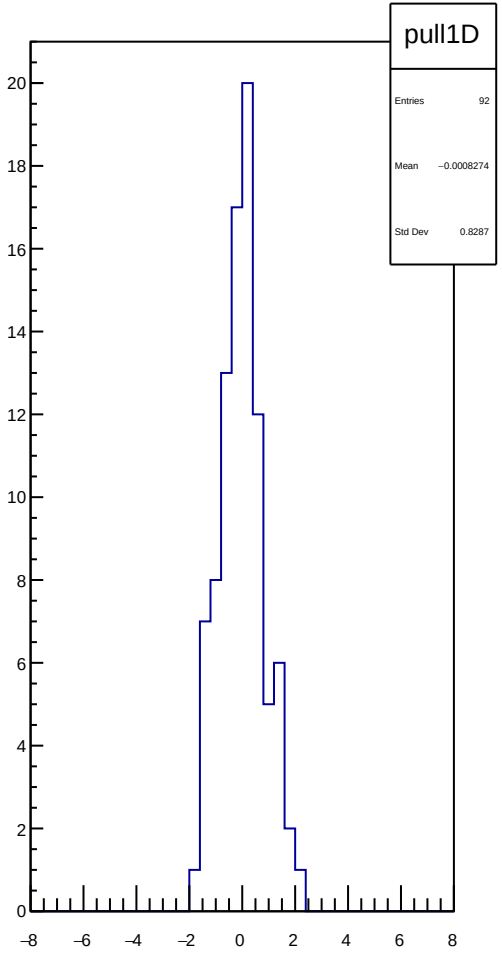

pull1D
Entries 92
Mean −0.006801
Std Dev 0.7868
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

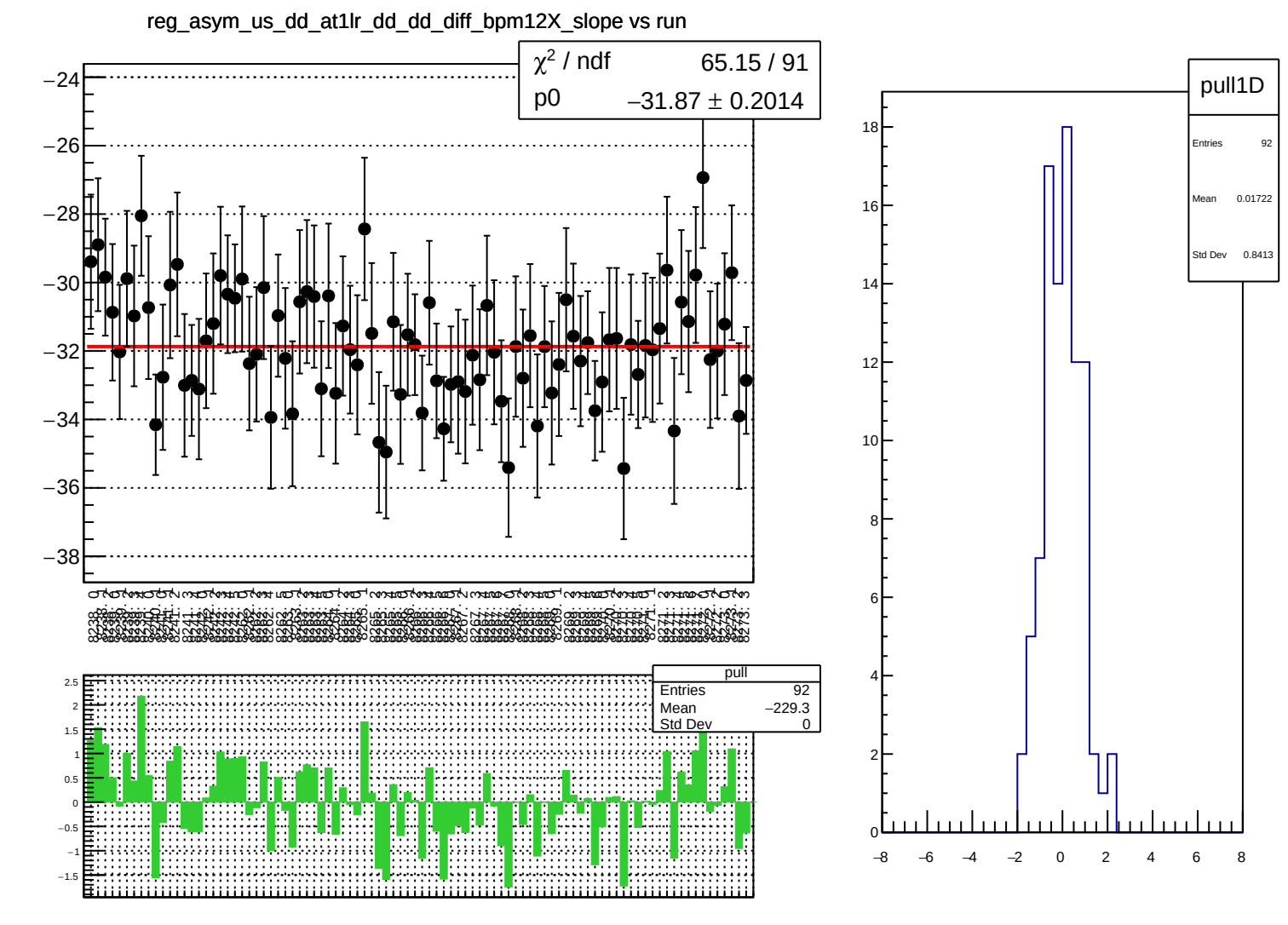

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 61.52 / 91
p0 −5.12 ± 3.576
pull
Entries 92
Mean −4.528e+04
Std Dev 0

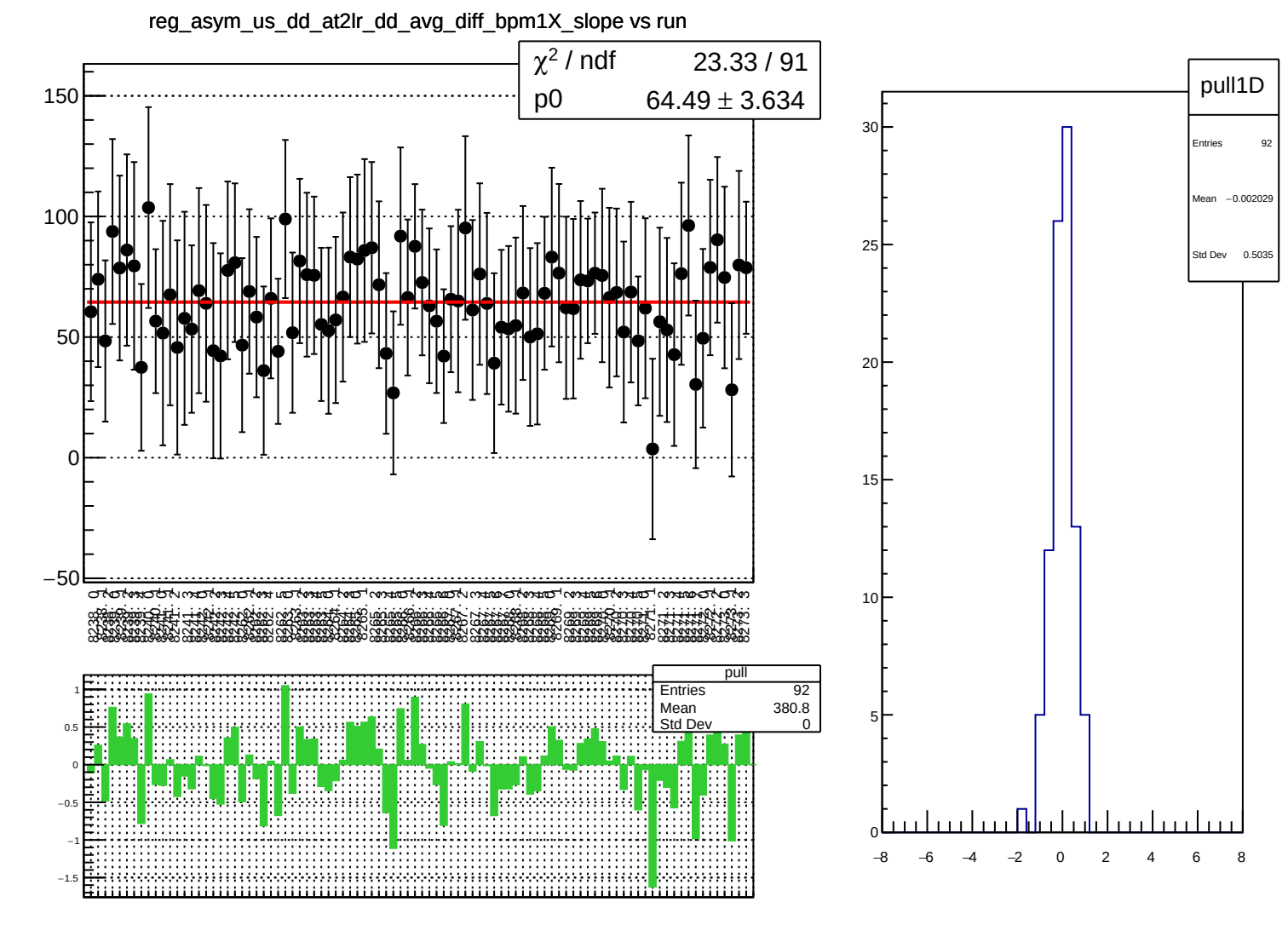

pull1D
Entries 92
Mean −7.866e−05
Std Dev 0.8178

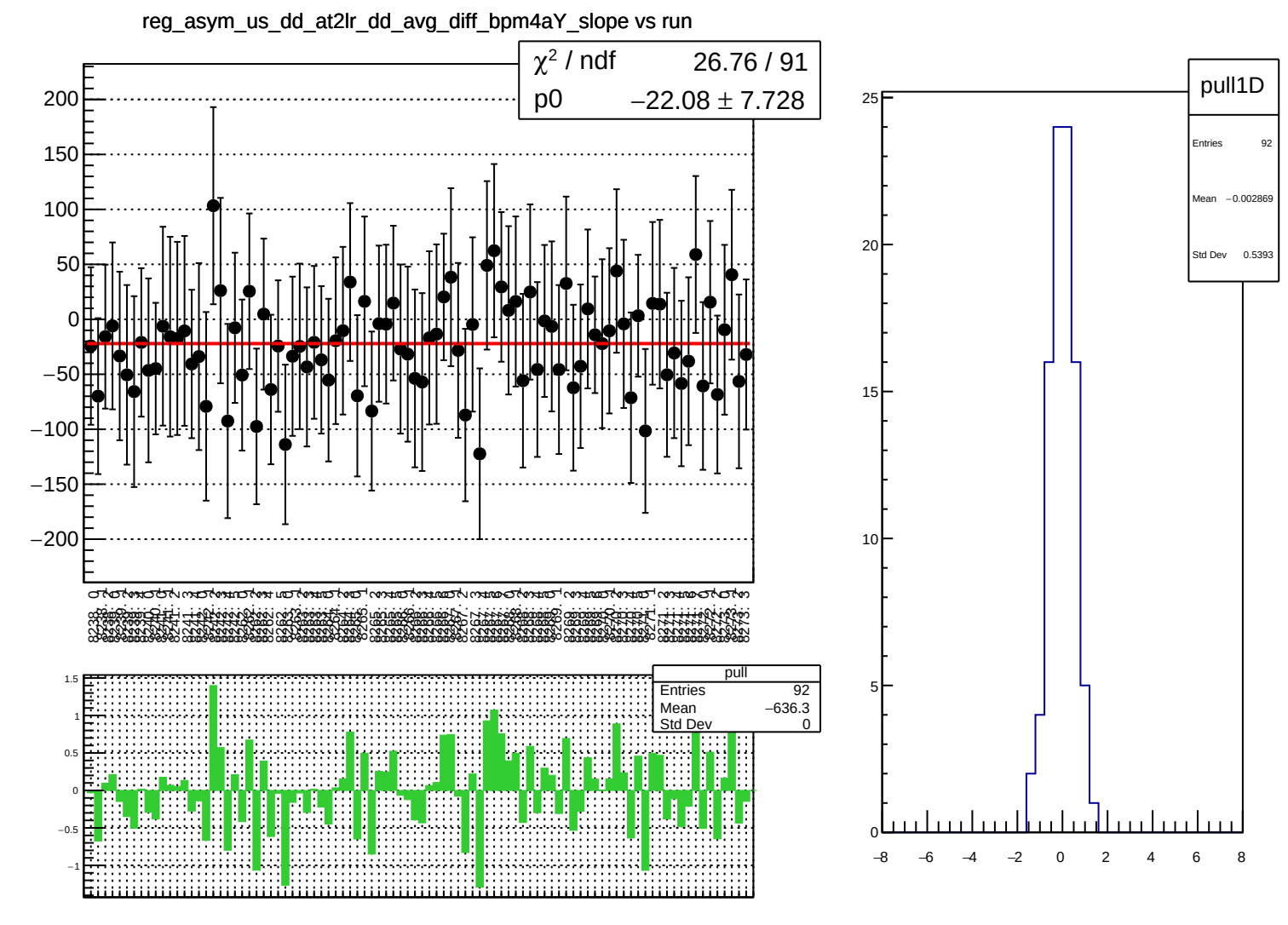

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 52.84 / 91
p0 −50.86 ± 1.916
pull
Entries 92
Mean 334.8
Std Dev 0
pull1D
Entries 92
Mean 0.004813
Std Dev 0.7579

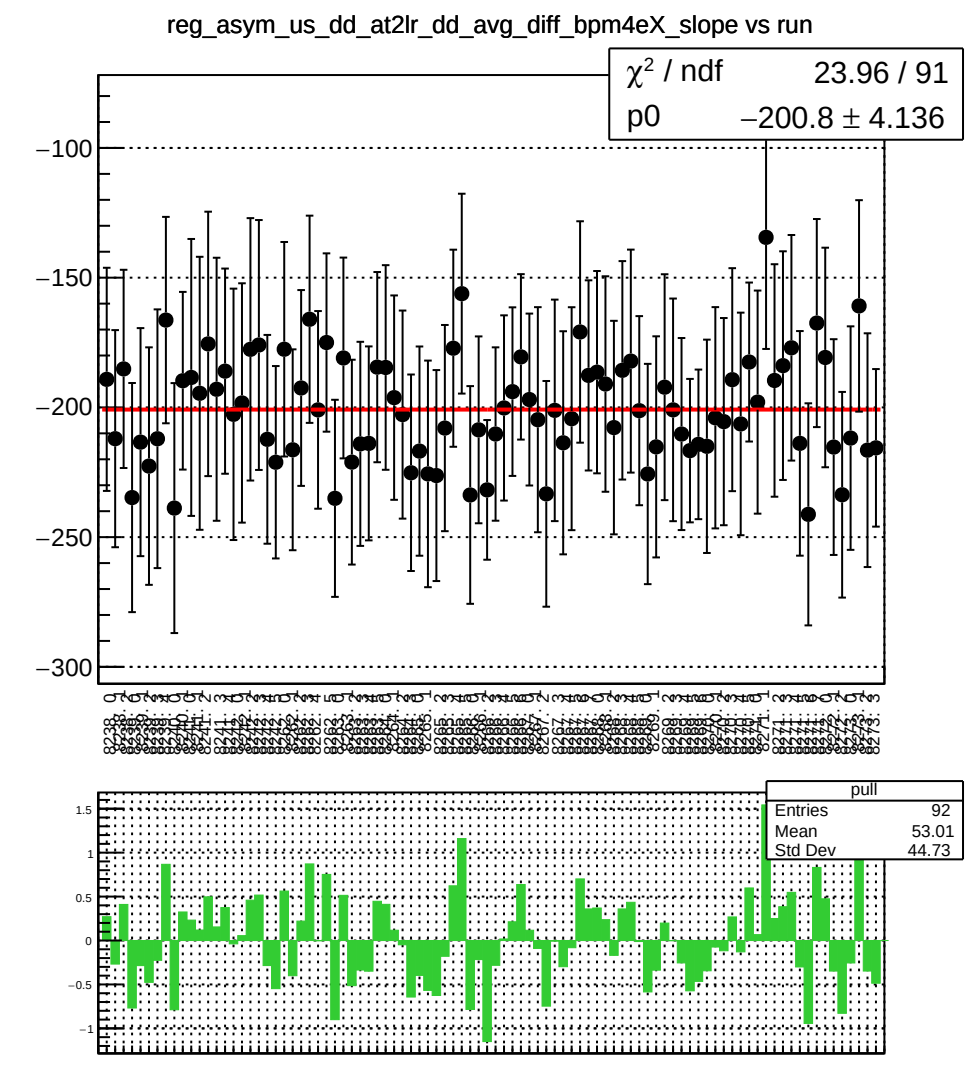

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 63.17 / 91
p0 20.47 ± 3.722
pull
Entries 92
Mean 4820
Std Dev 0

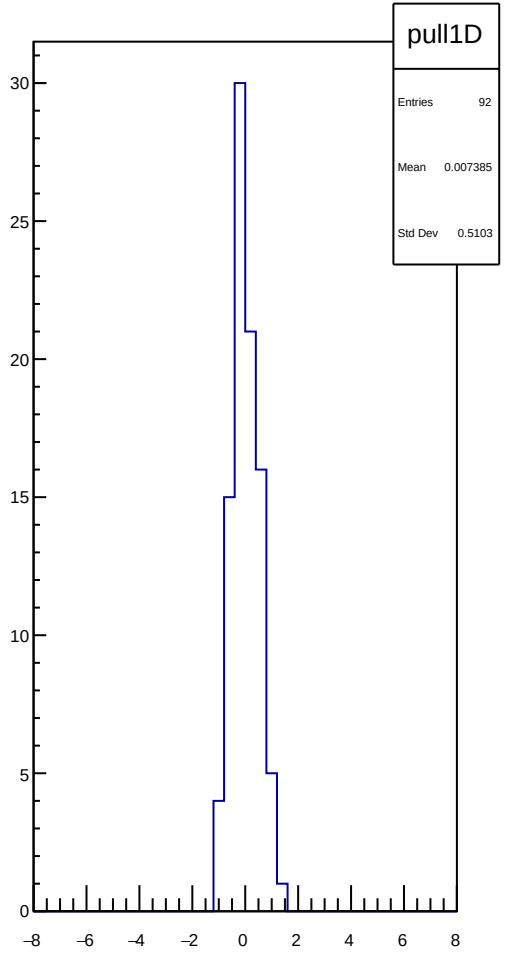

pull1D
Entries 92
Mean −0.0008274
Std Dev 0.8287

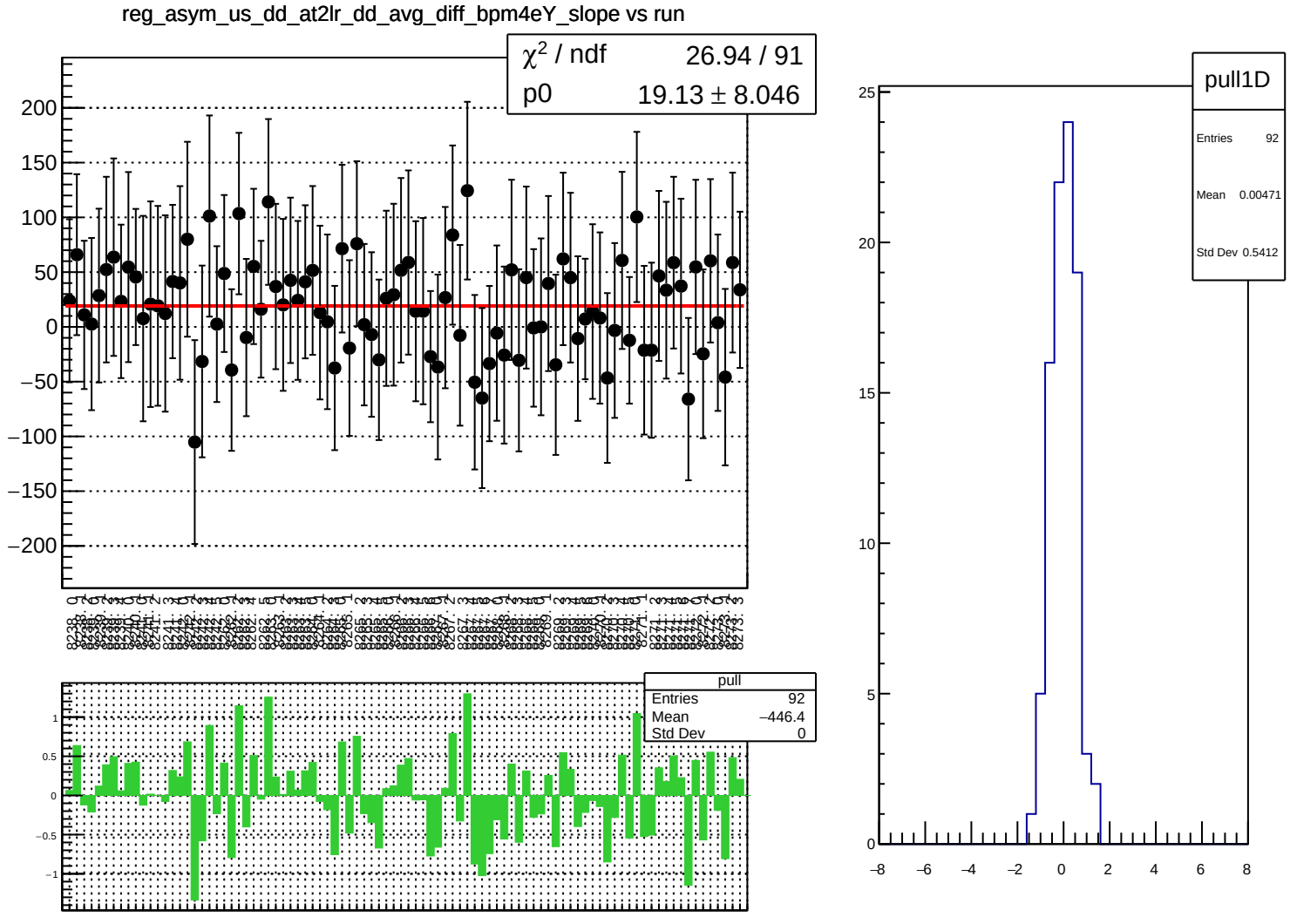

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 65.15 / 91
p0 −31.87 ± 0.2014
pull
Entries 92
Mean −229.3
Std Dev 0
pull1D
Entries 92
Mean 0.01722
Std Dev 0.8413

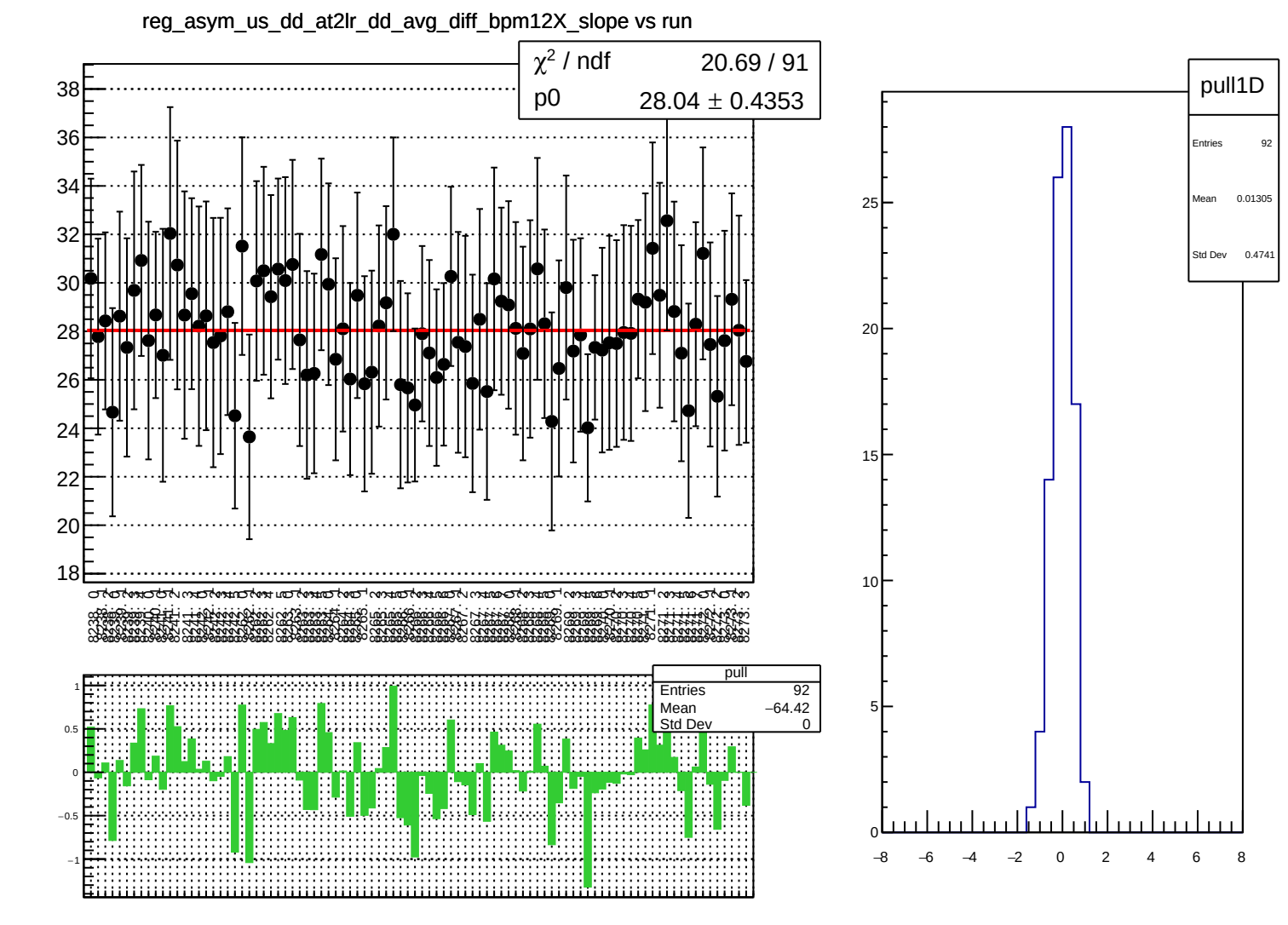

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 23.33 / 91
p0 64.49 ± 3.634
150
100
50
0
−50
pull
Entries 92
Mean 380.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.002029
Std Dev 0.5035
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

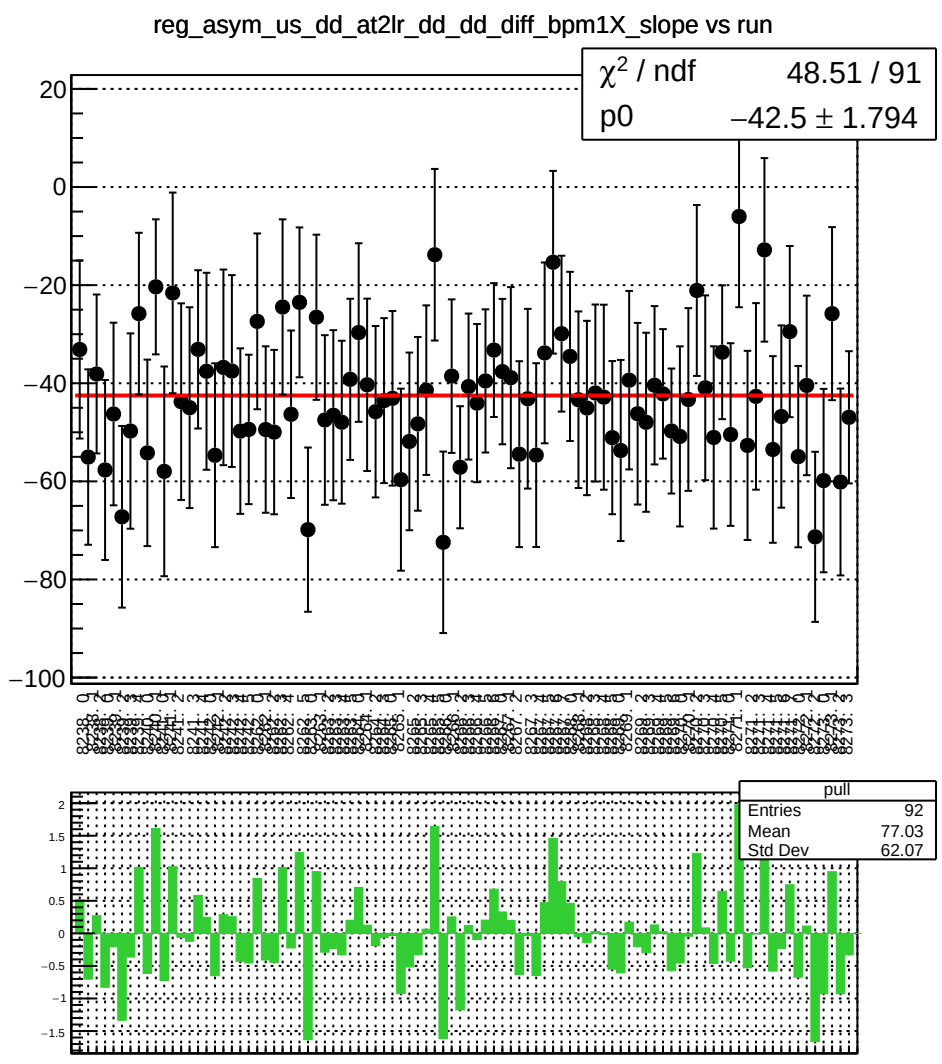

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.76 / 91
p0 −22.08 ± 7.728
pull
Entries 92
Mean −636.3
Std Dev 0
pull1D
Entries 92
Mean −0.002869
Std Dev 0.5393

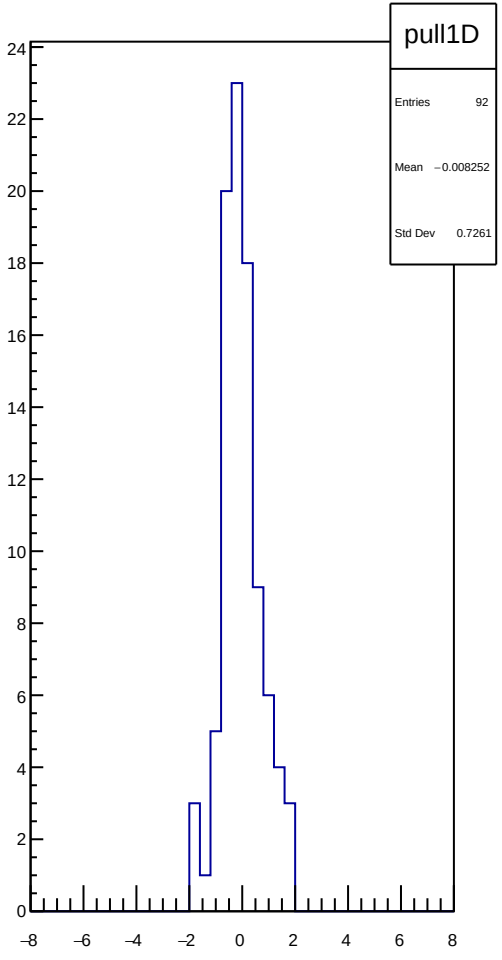

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.96 / 91
p0 −200.8 ± 4.136
−100
−150
−200
−250
−300
pull
Entries 92
Mean 53.01
Std Dev 44.73
1.5
1
0.5
0
−0.5
−1

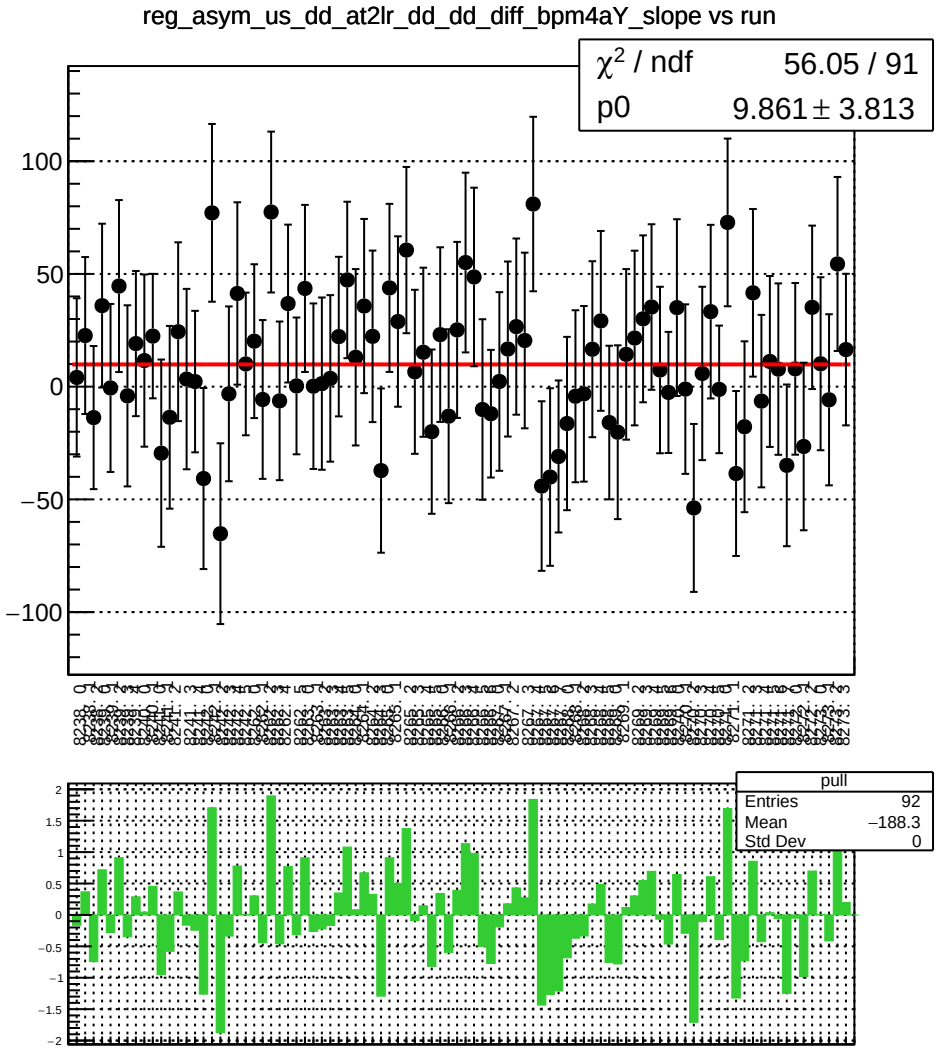

pull1D
Entries 92
Mean 0.007385
Std Dev 0.5103
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

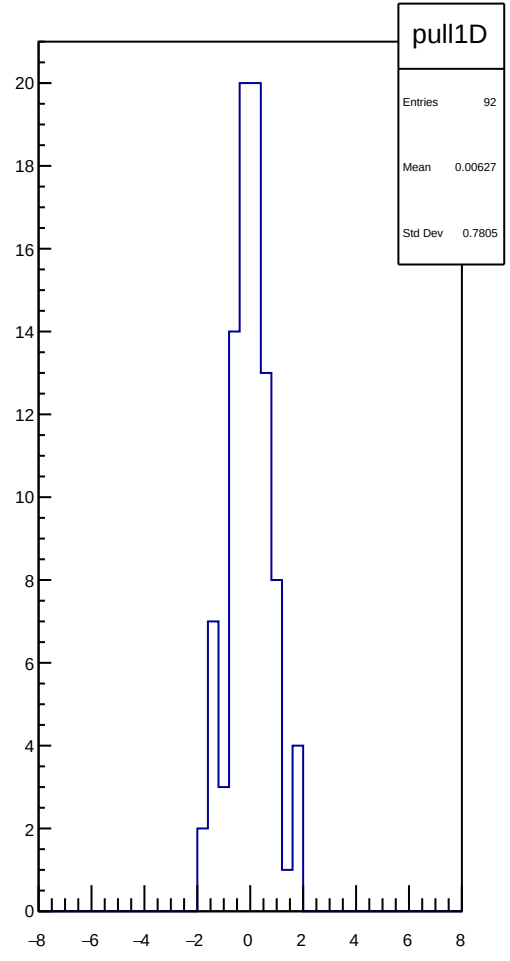

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.94 / 91
p0 19.13 ± 8.046
pull
Entries 92
Mean −446.4
Std Dev 0
pull1D
Entries 92
Mean 0.00471
Std Dev 0.5412

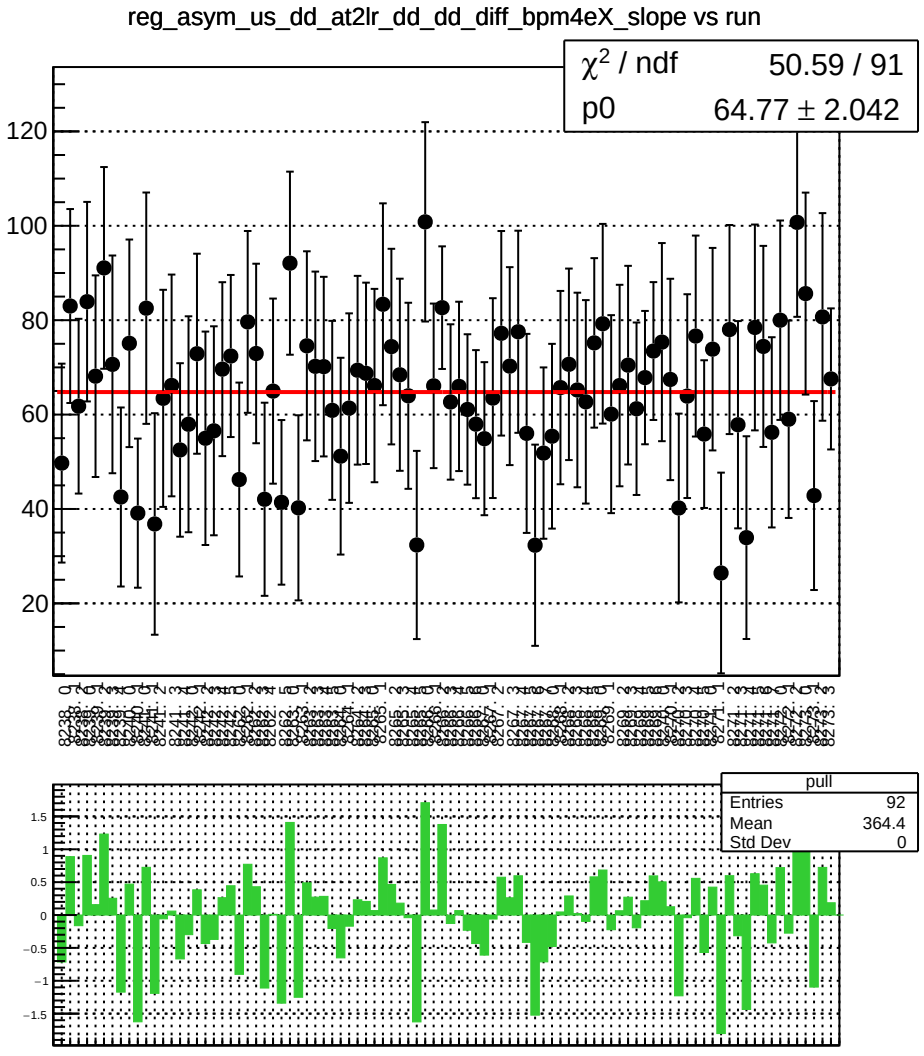

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 20.69 / 91
p0 28.04 ± 0.4353
pull
Entries 92
Mean −64.42
Std Dev 0
pull1D
Entries 92
Mean 0.01305
Std Dev 0.4741

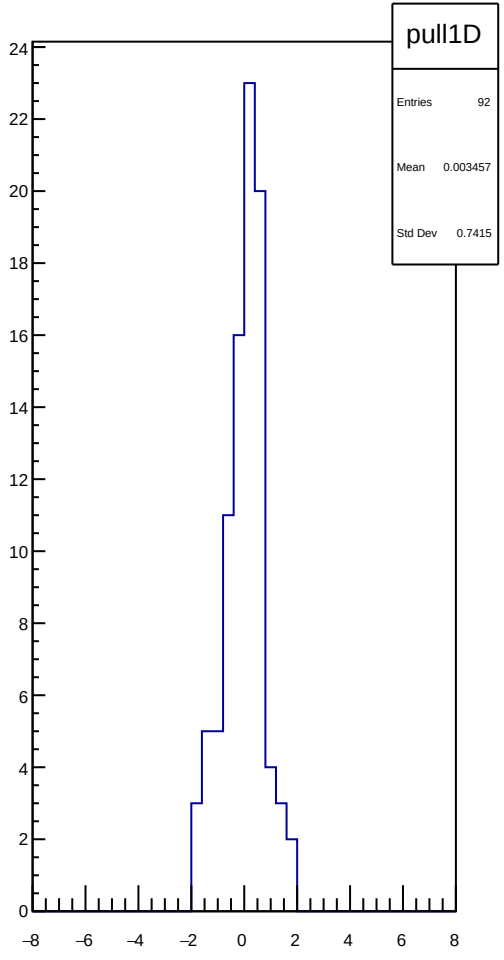

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 48.51 / 91
p0 −42.5 ± 1.794
pull
Entries 92
Mean 77.03
Std Dev 62.07

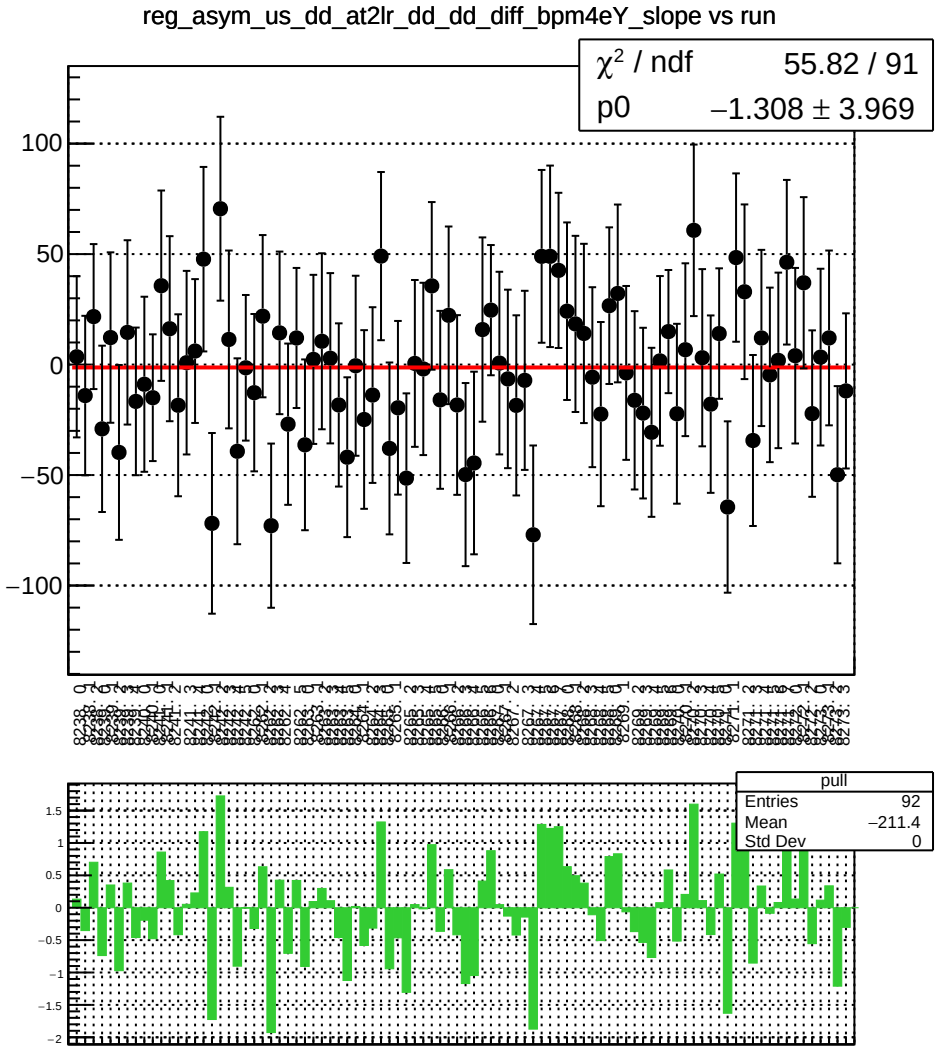

pull1D
Entries 92
Mean −0.008252
Std Dev 0.7261

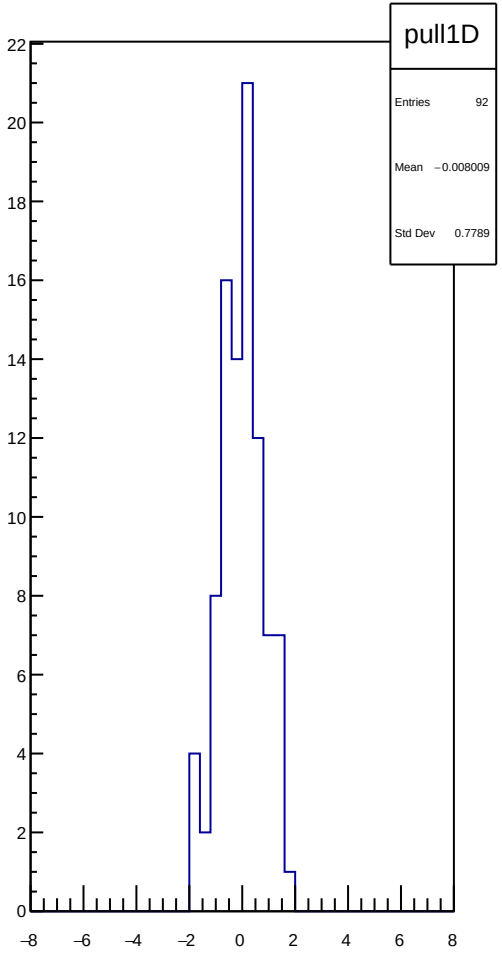

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.05 / 91
p0 9.861 ± 3.813
pull
Entries 92
Mean −188.3
Std Dev 0

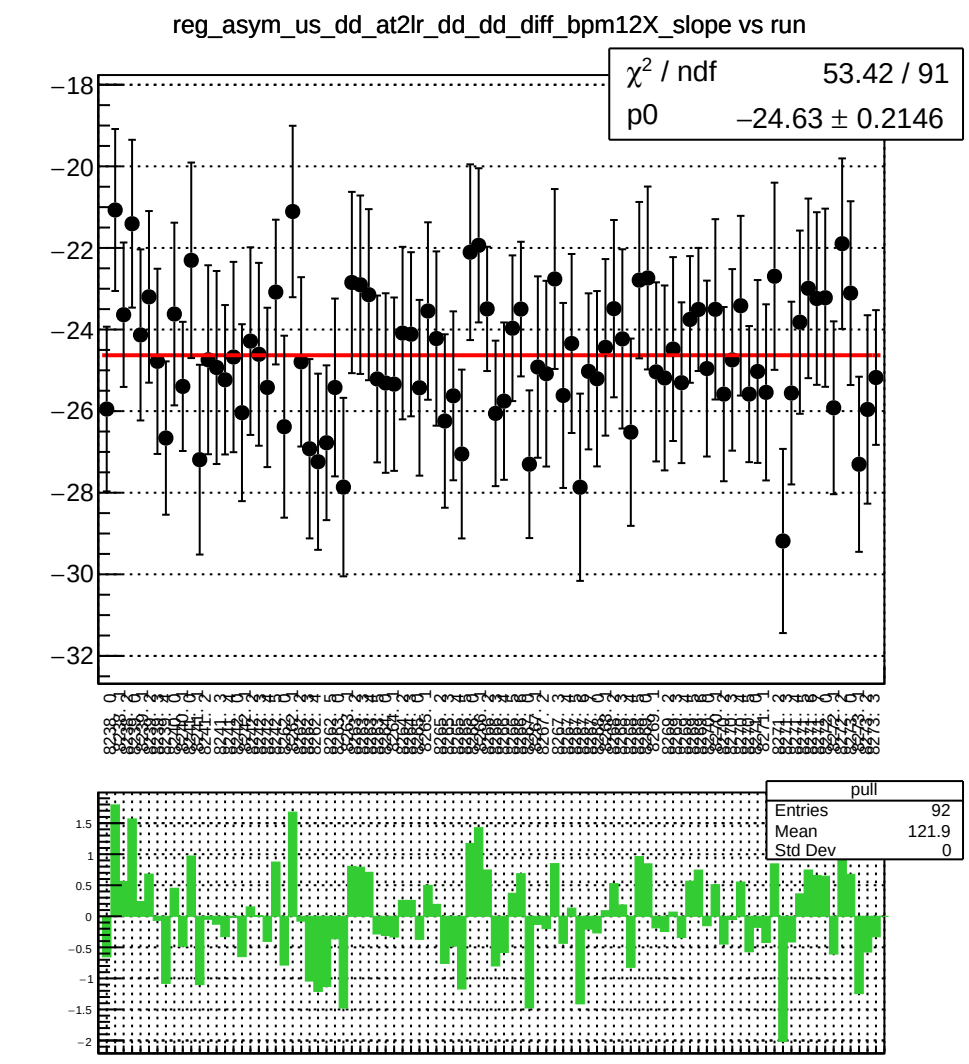

pull1D
Entries 92
Mean 0.00627
Std Dev 0.7805

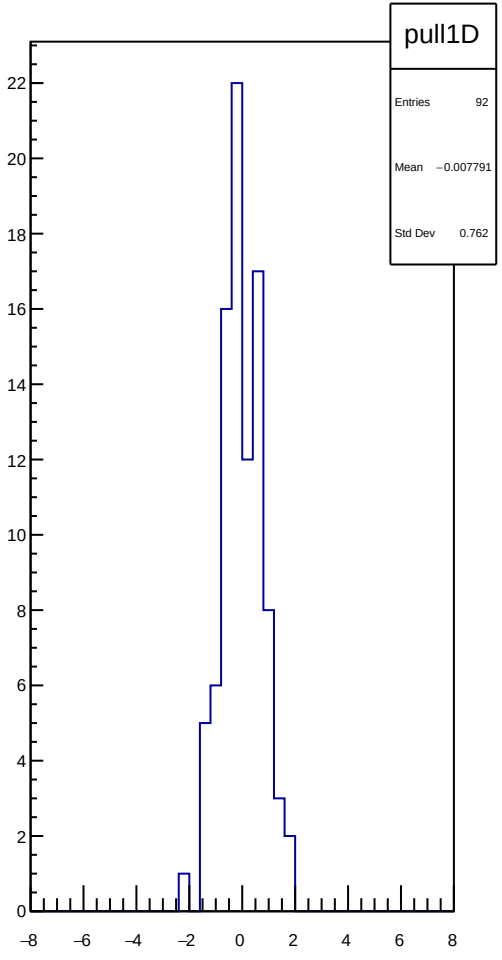

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.59 / 91
p0 64.77 ± 2.042
120
100
80
60
40
20
pull
Entries 92
Mean 364.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

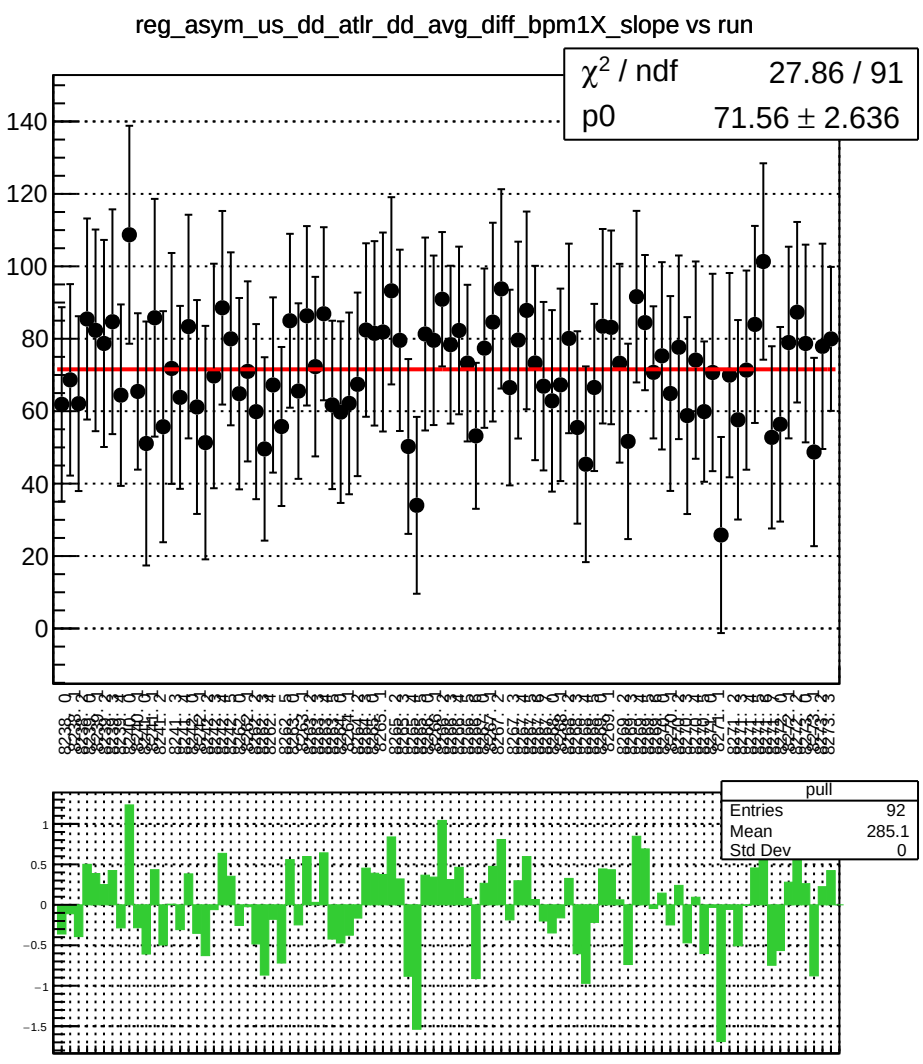

pull1D
Entries 92
Mean 0.003457
Std Dev 0.7415
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

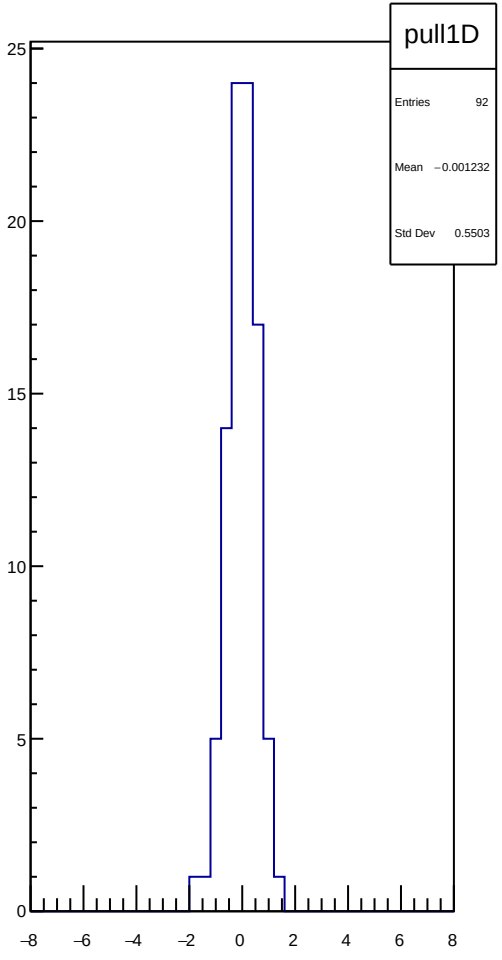

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.82 / 91
p0 −1.308 ± 3.969
pull
Entries 92
Mean −211.4
Std Dev 0

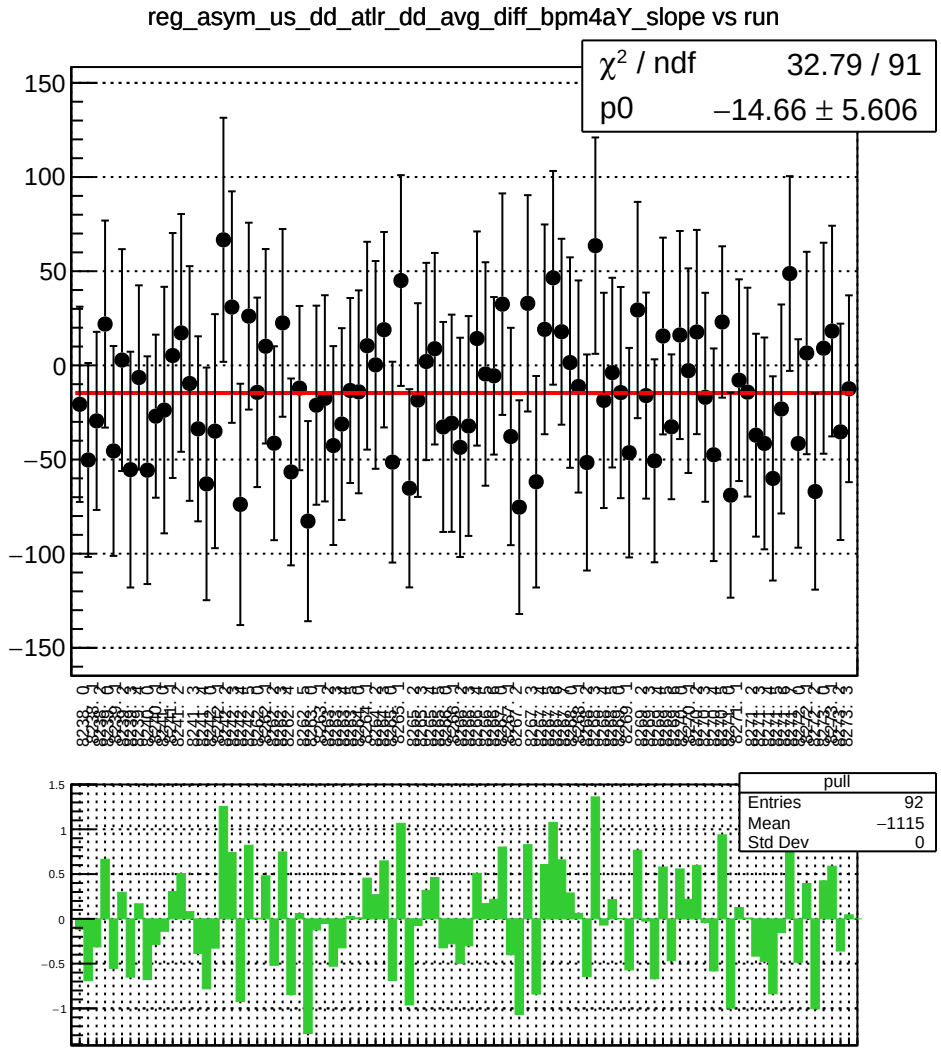

pull1D
Entries 92
Mean −0.008009
Std Dev 0.7789

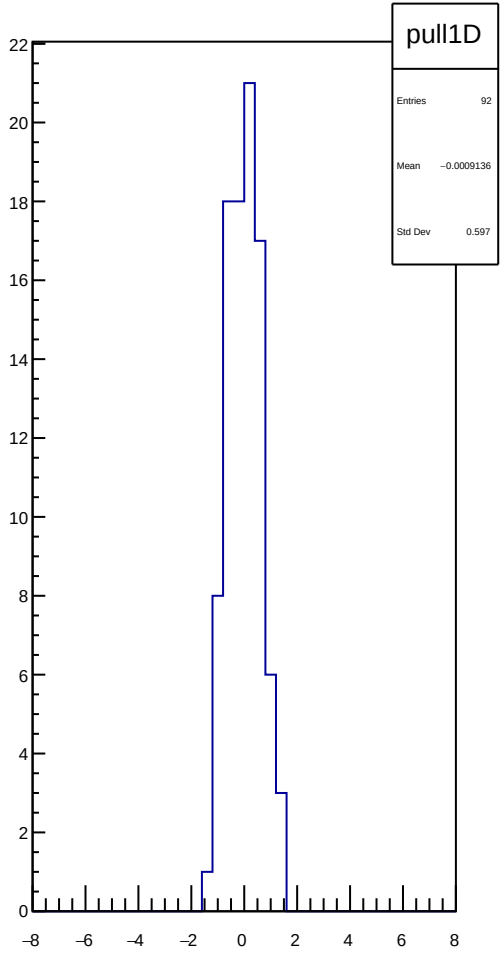

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 53.42 / 91
p0 −24.63 ± 0.2146
pull
Entries 92
Mean 121.9
Std Dev 0

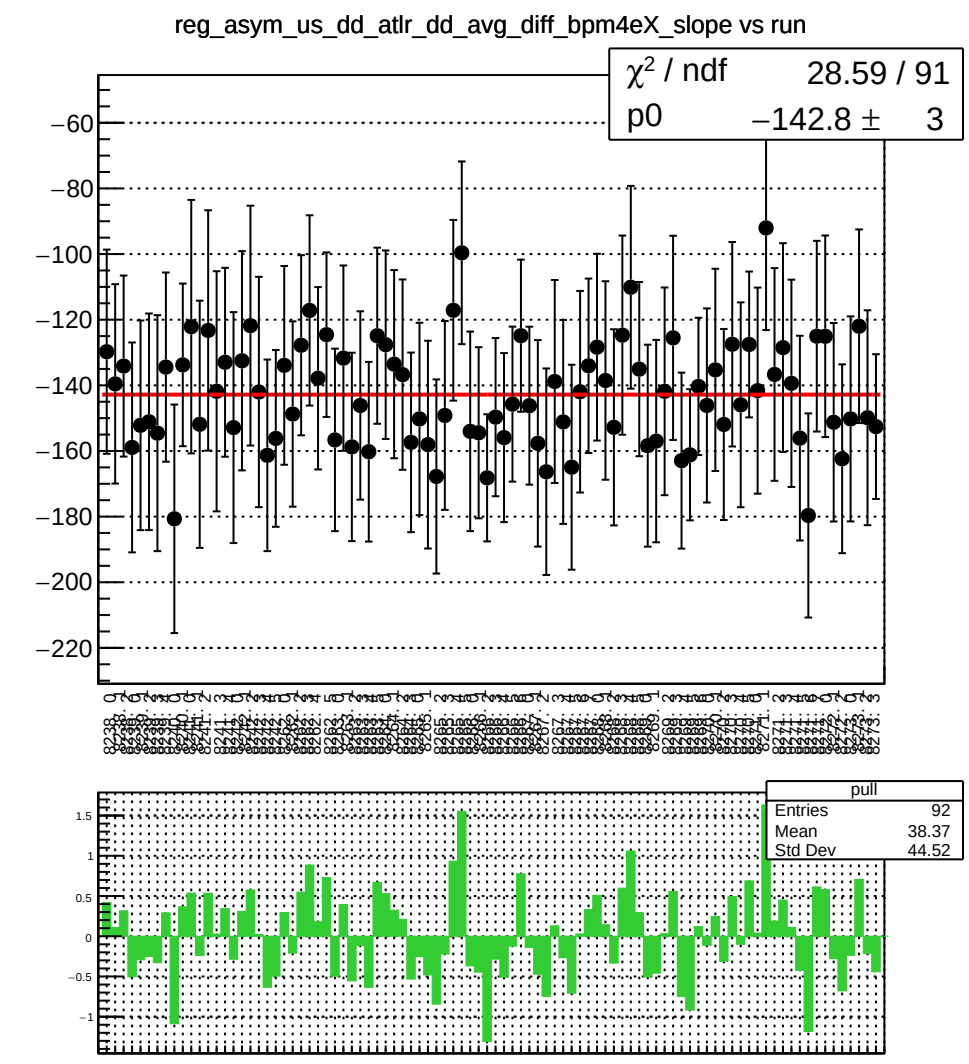

pull1D
Entries 92
Mean −0.007791
Std Dev 0.762

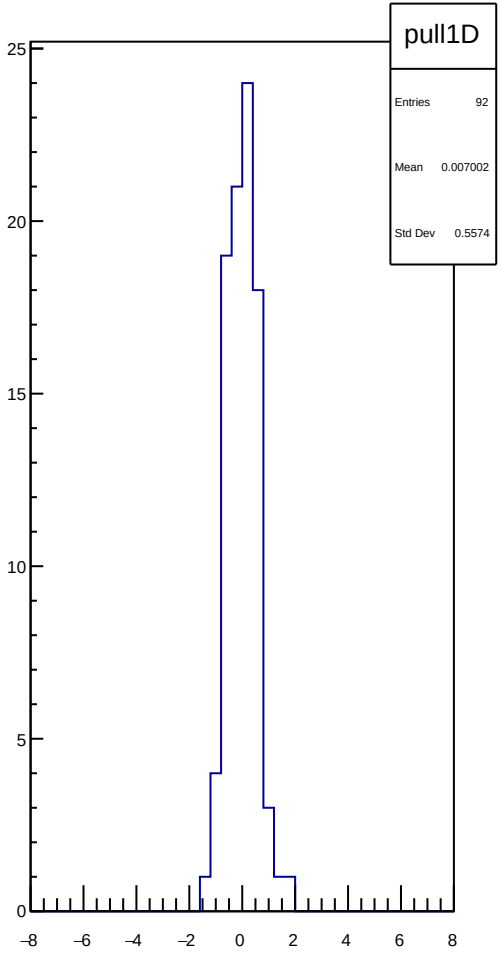

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 27.86 / 91
p0 71.56 ± 2.636
pull
Entries 92
Mean 285.1
Std Dev 0

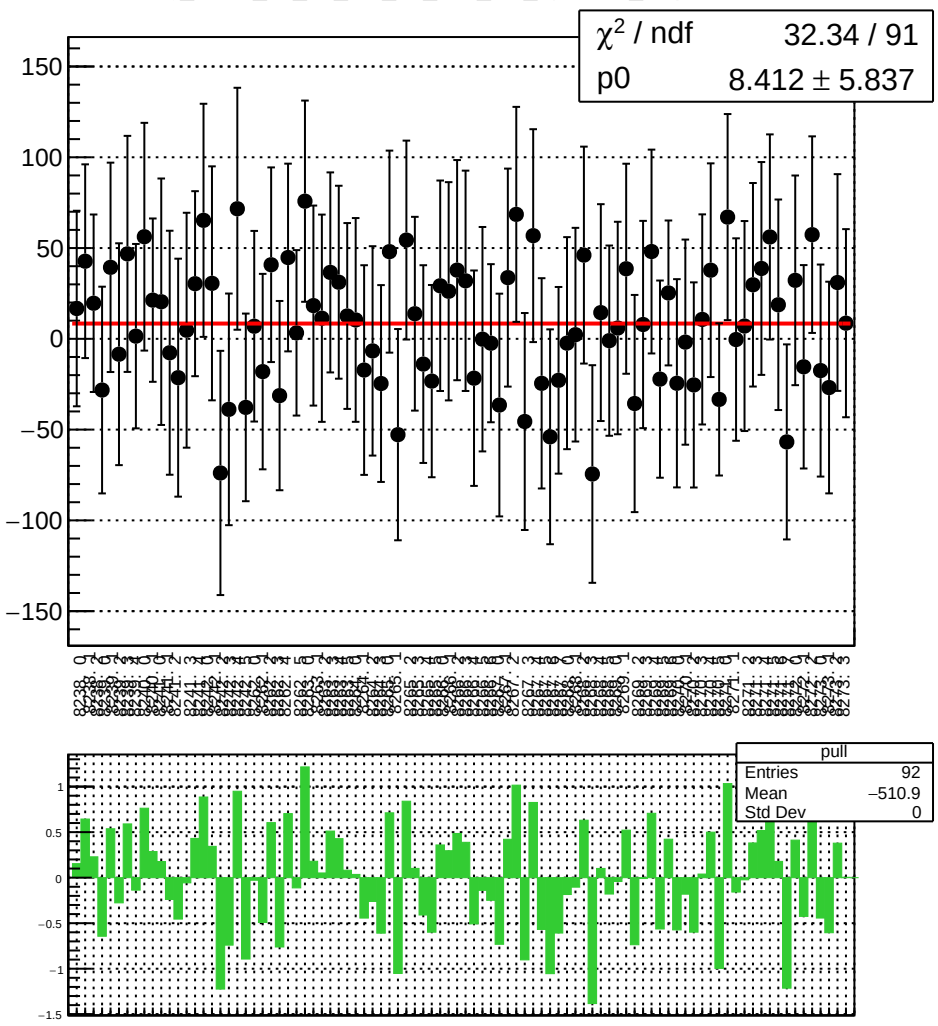

pull1D
Entries 92
Mean −0.001232
Std Dev 0.5503

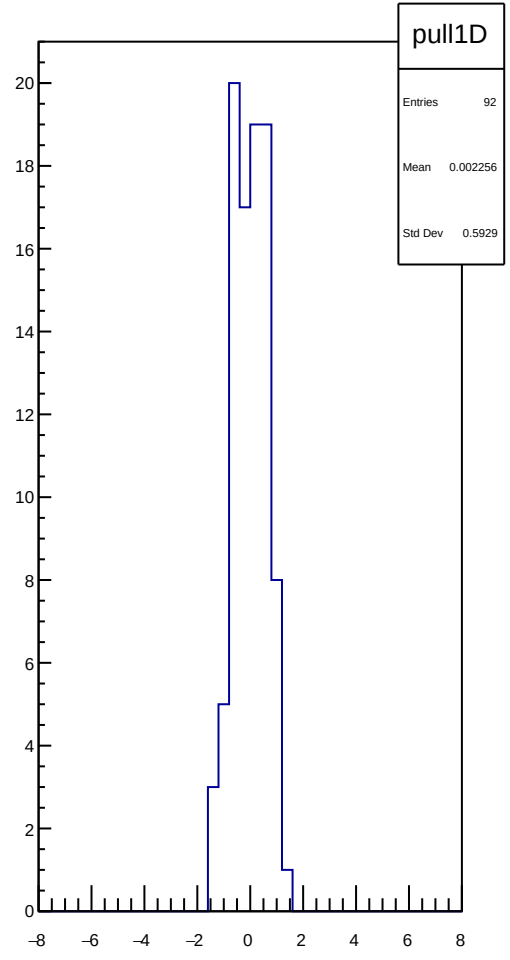

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 32.79 / 91
p0 −14.66 ± 5.606
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −1115
Std Dev 0
1.5
1
0.5
0
−0.5
−1

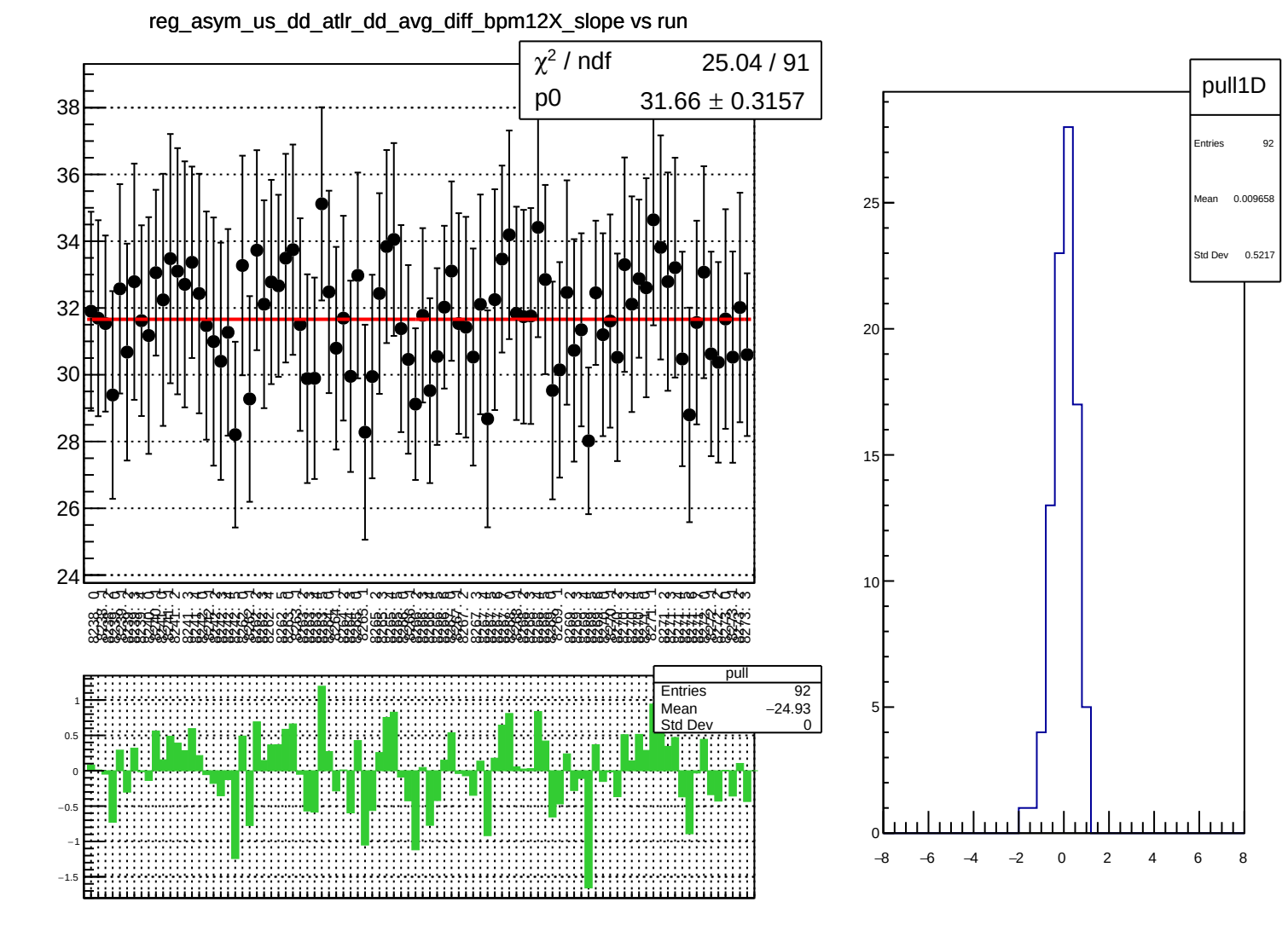

pull1D
Entries 92
Mean −0.0009136
Std Dev 0.597
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

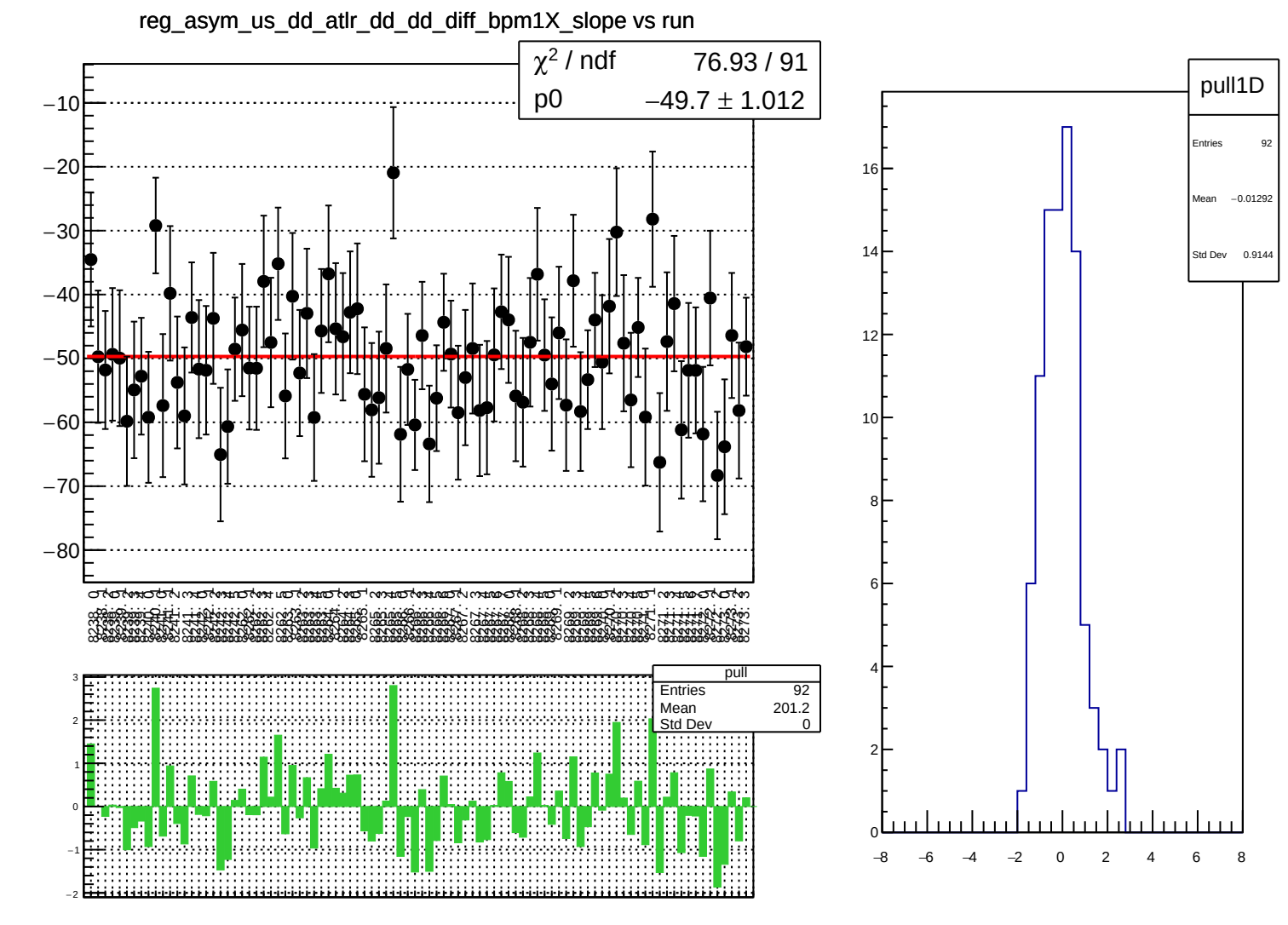

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.59 / 91
p0 −142.8 ± 3
pull
Entries 92
Mean 38.37
Std Dev 44.52

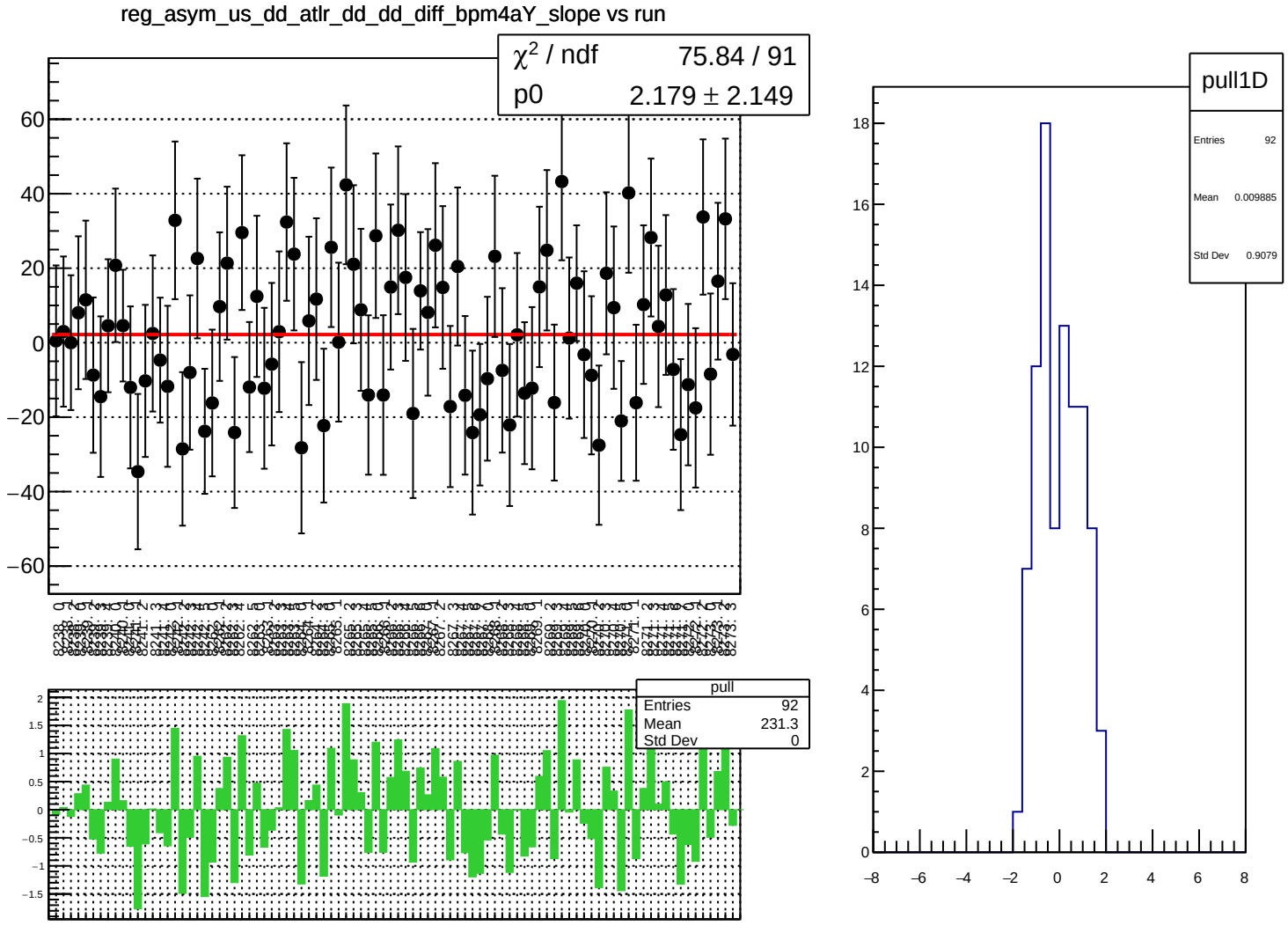

pull1D
Entries 92
Mean 0.007002
Std Dev 0.5574

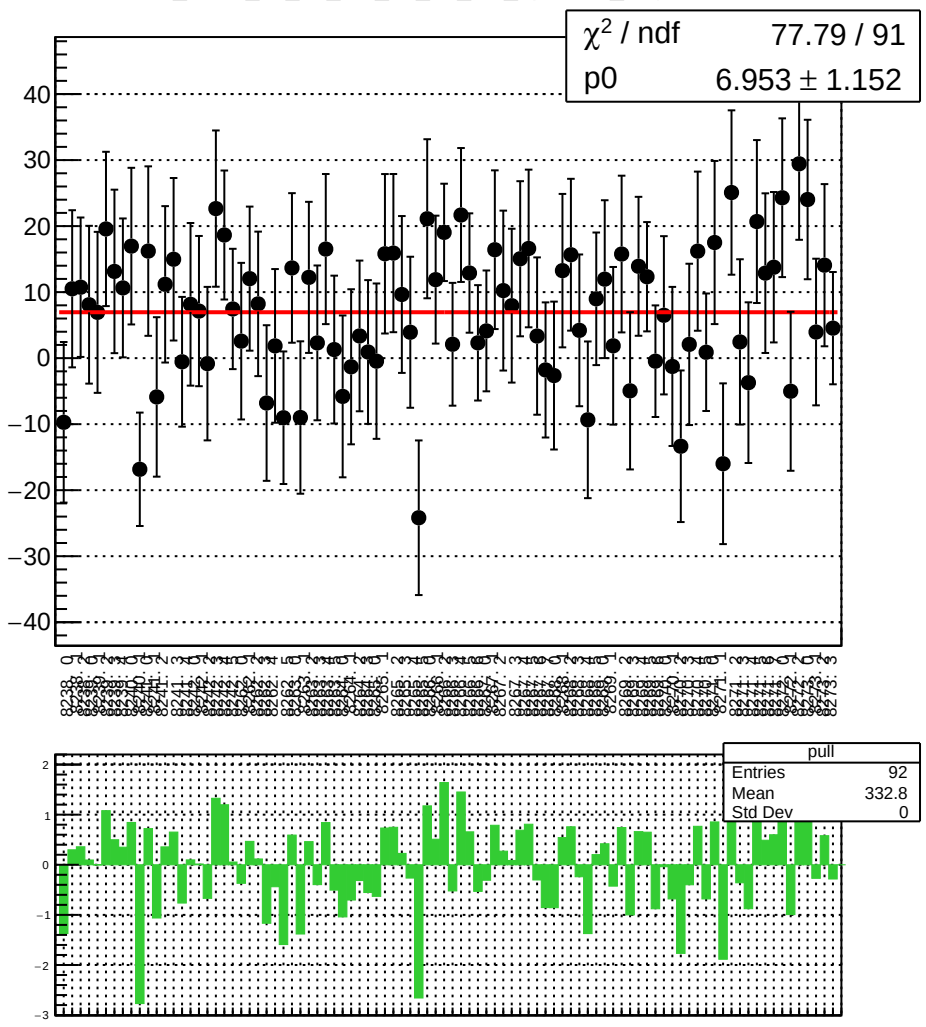

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.34 / 91
p0 8.412 ± 5.837
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −510.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

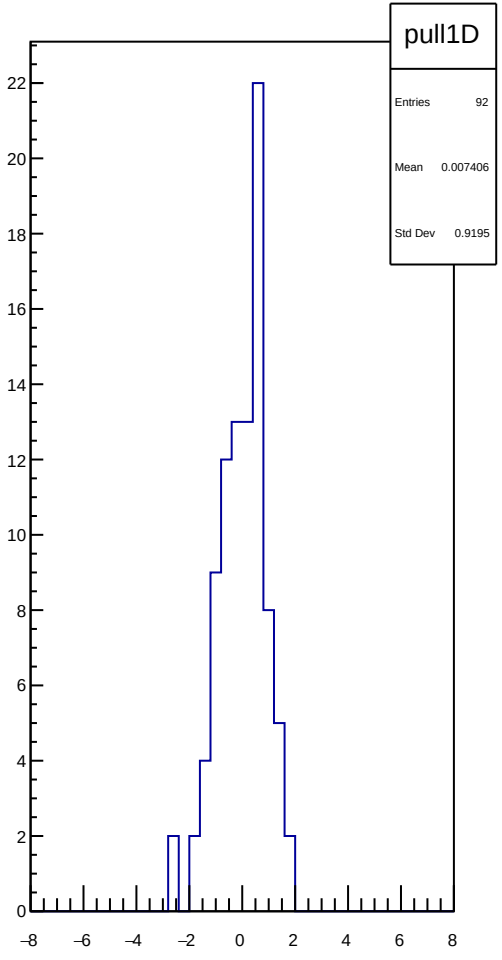

pull1D
Entries 92
Mean 0.002256
Std Dev 0.5929
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

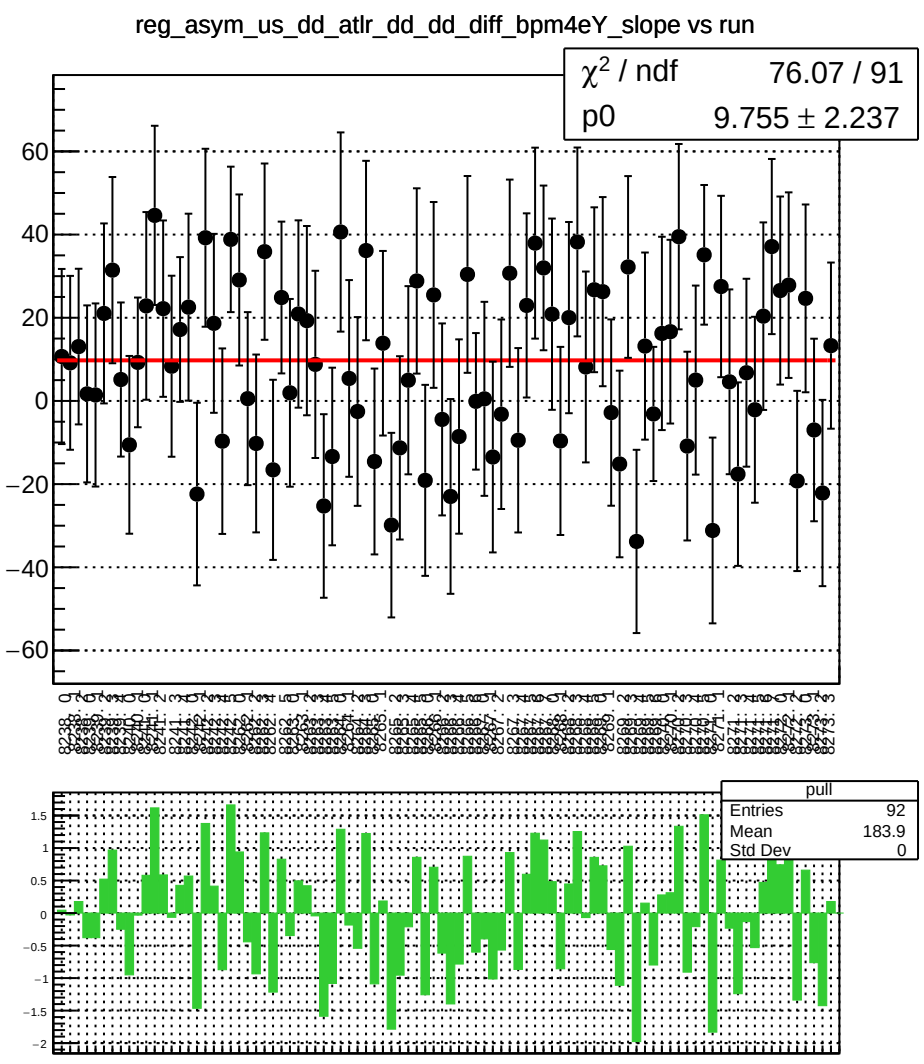

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 25.04 / 91
p0 31.66 ± 0.3157
pull
Entries 92
Mean −24.93
Std Dev 0
pull1D
Entries 92
Mean 0.009658
Std Dev 0.5217

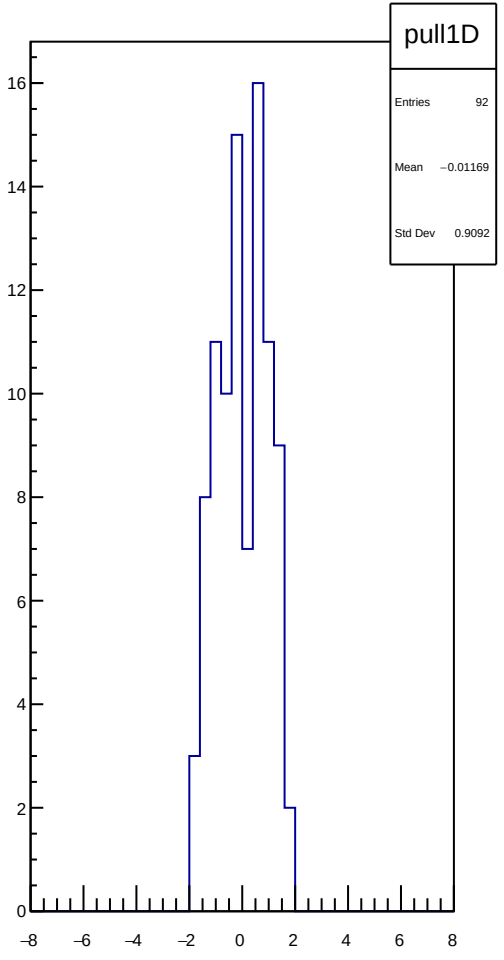

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 76.93 / 91
p0 −49.7 ± 1.012
pull
Entries 92
Mean 201.2
Std Dev 0
pull1D
Entries 92
Mean −0.01292
Std Dev 0.9144

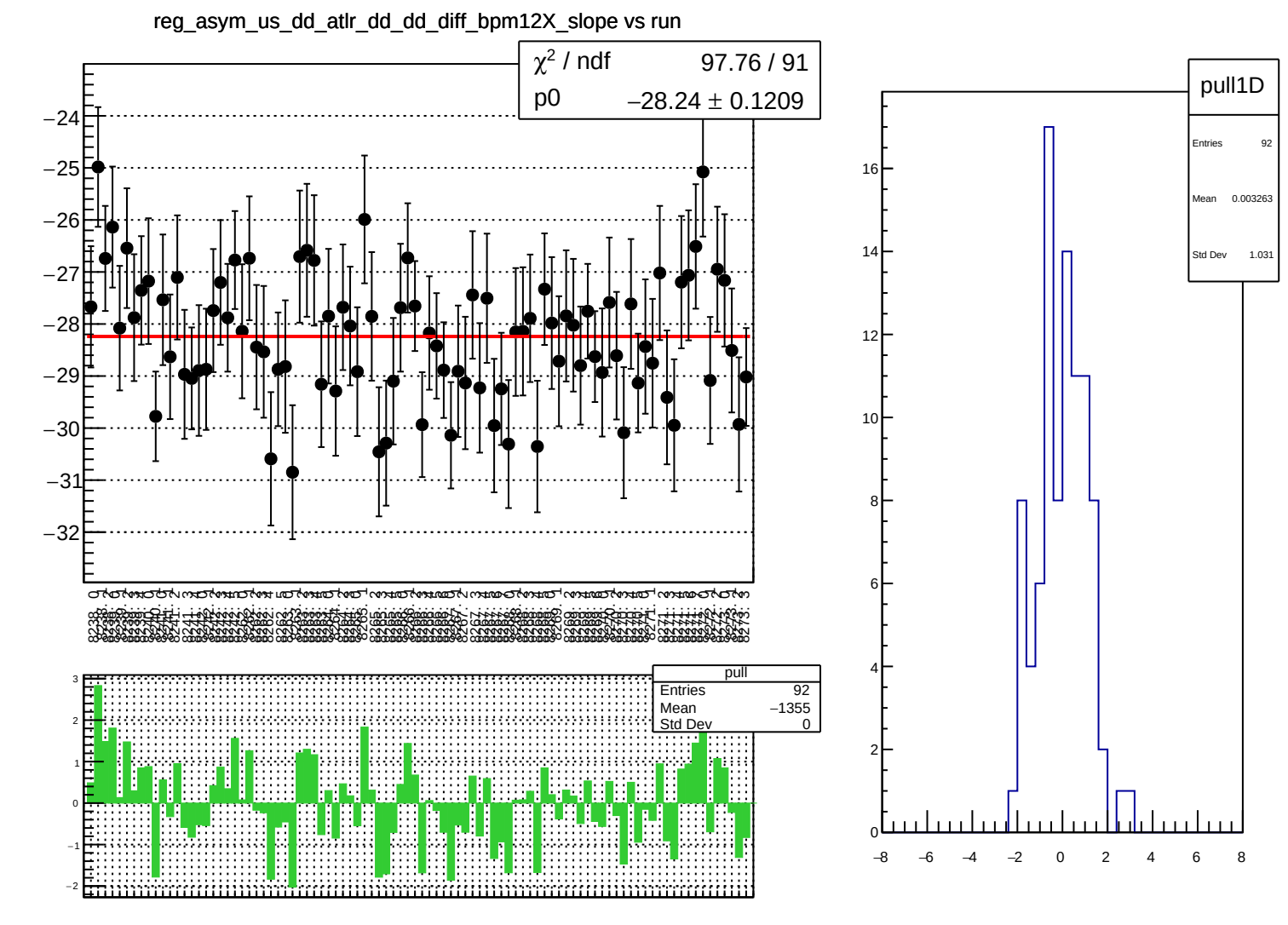

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 75.84 / 91
p0 2.179 ± 2.149
pull
Entries 92
Mean 231.3
Std Dev 0
pull1D
Entries 92
Mean 0.009885
Std Dev 0.9079

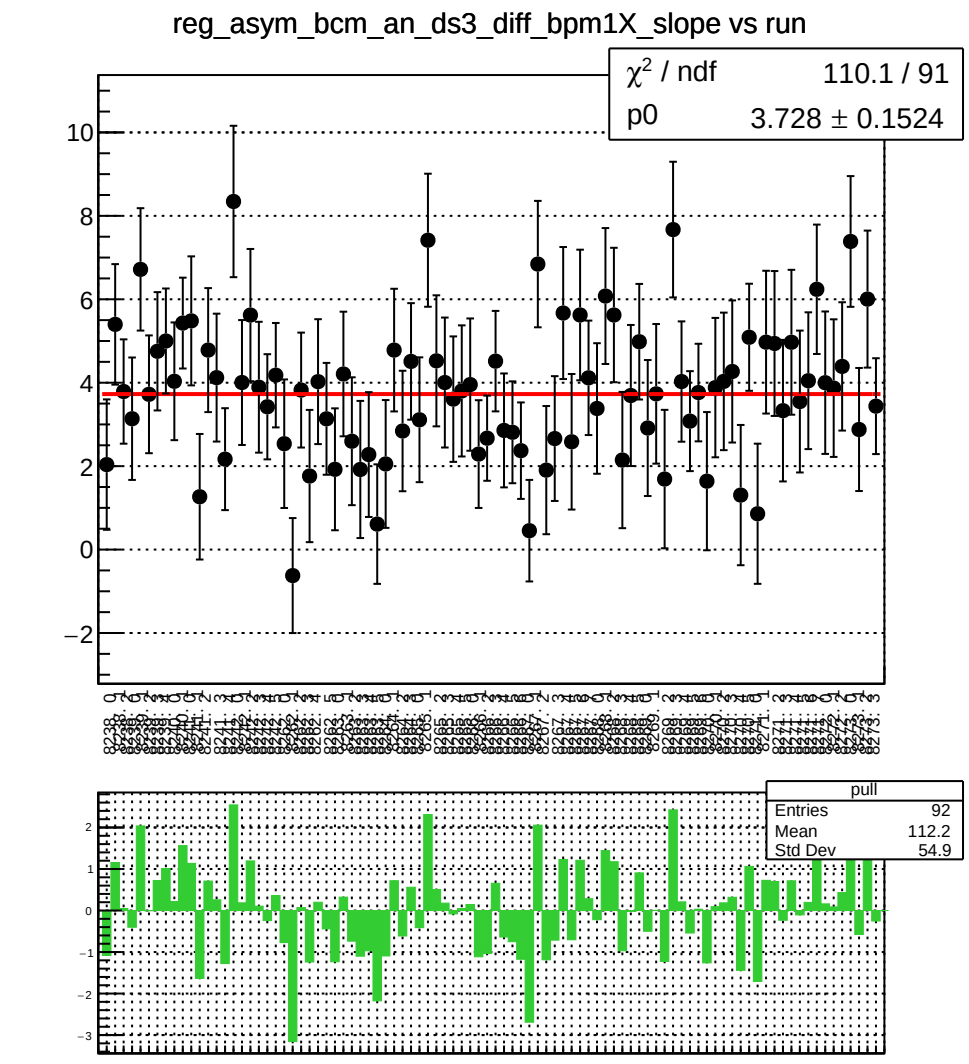

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 77.79 / 91
p0 6.953 ± 1.152
pull
Entries 92
Mean 332.8
Std Dev 0

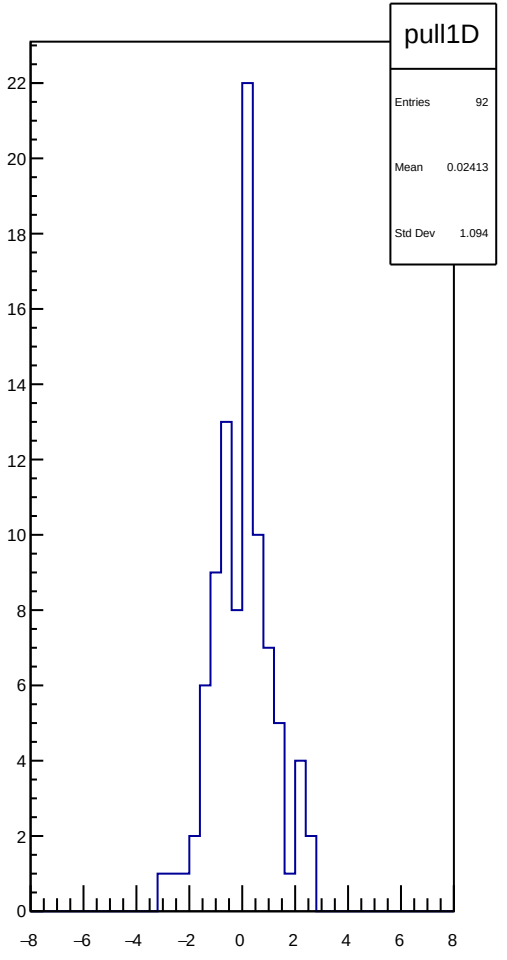

pull1D
Entries 92
Mean 0.007406
Std Dev 0.9195

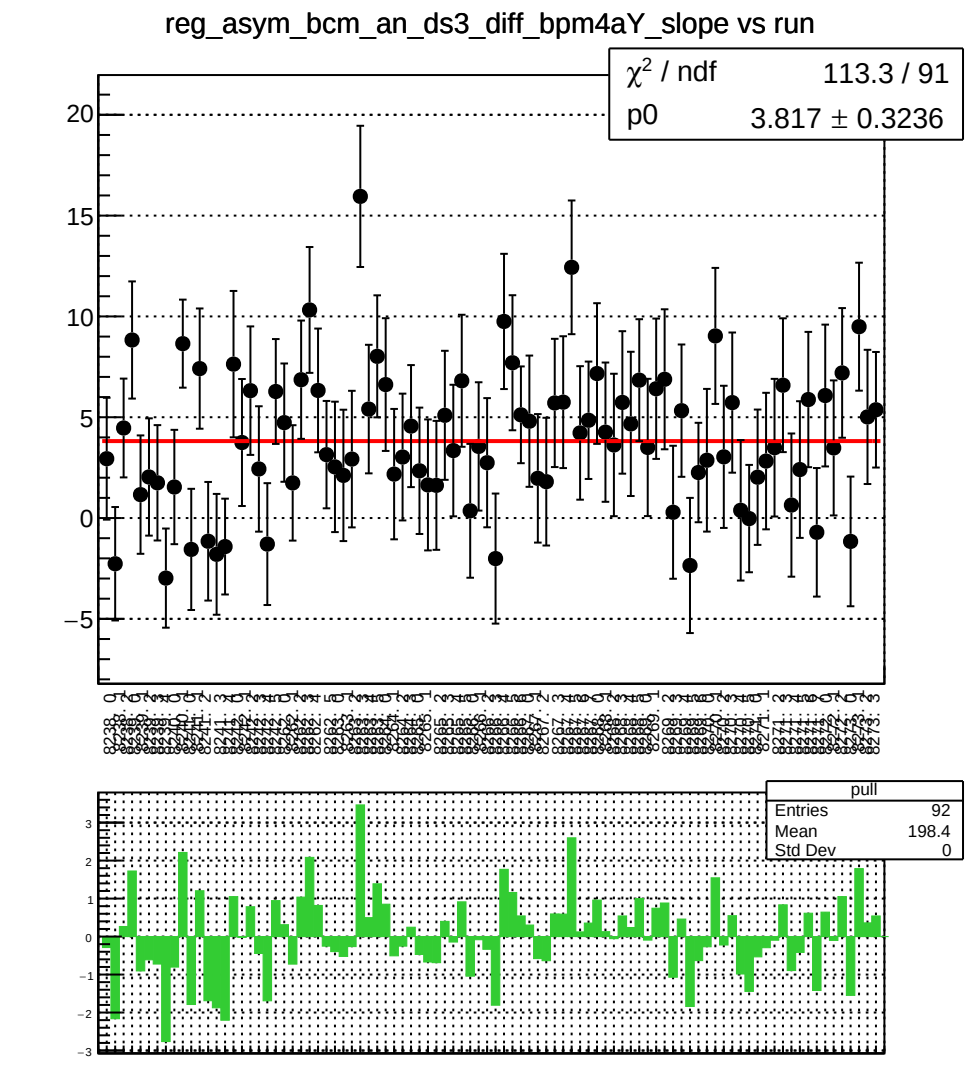

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.07 / 91
p0 9.755 ± 2.237
pull
Entries 92
Mean 183.9
Std Dev 0

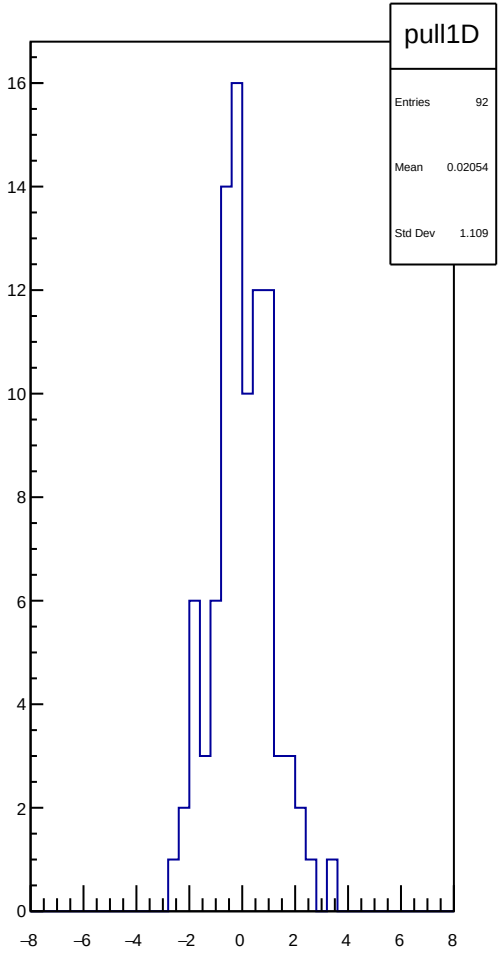

pull1D
Entries 92
Mean −0.01169
Std Dev 0.9092

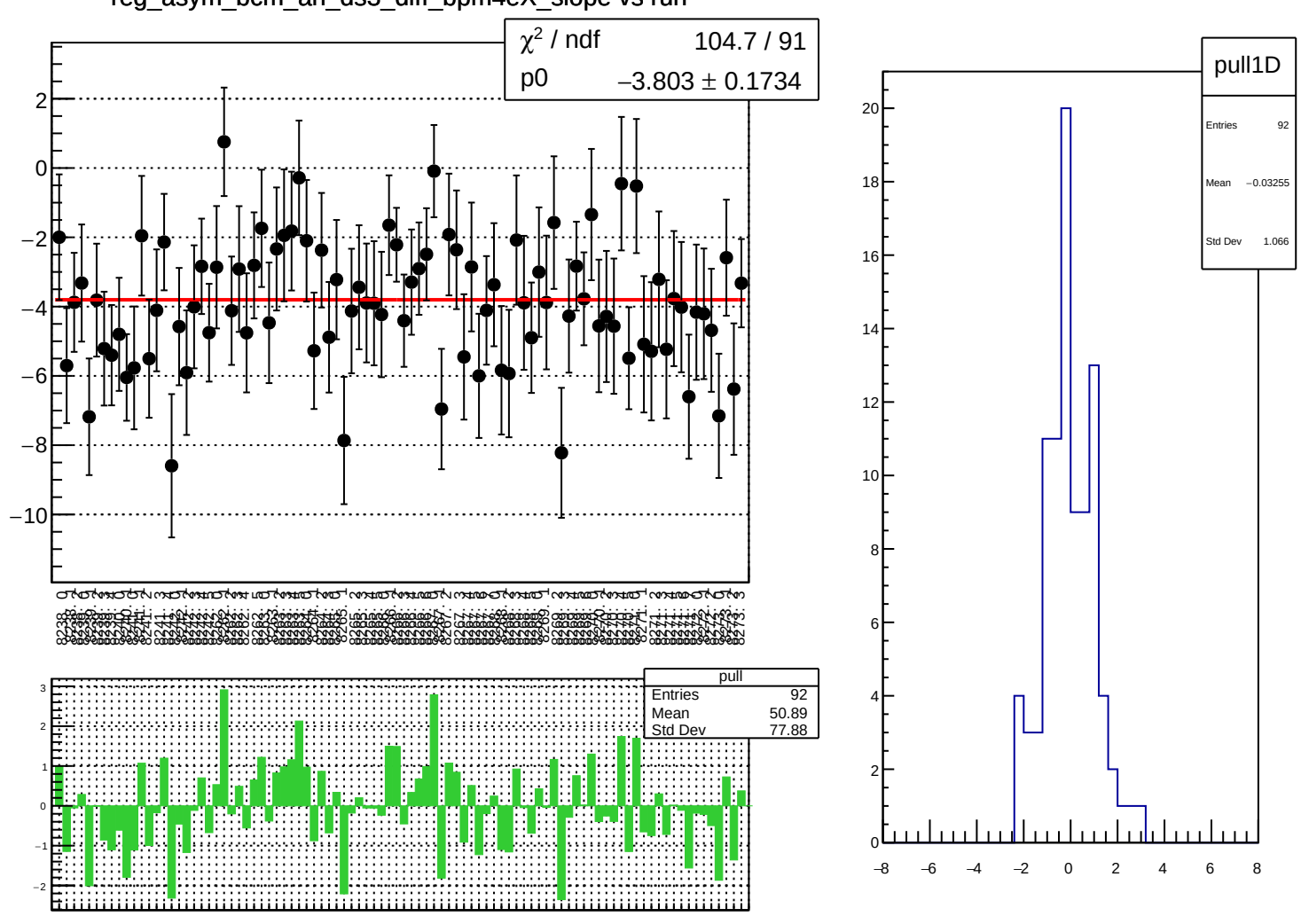

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 97.76 / 91
p0 −28.24 ± 0.1209
pull
Entries 92
Mean −1355
Std Dev 0
pull1D
Entries 92
Mean 0.003263
Std Dev 1.031

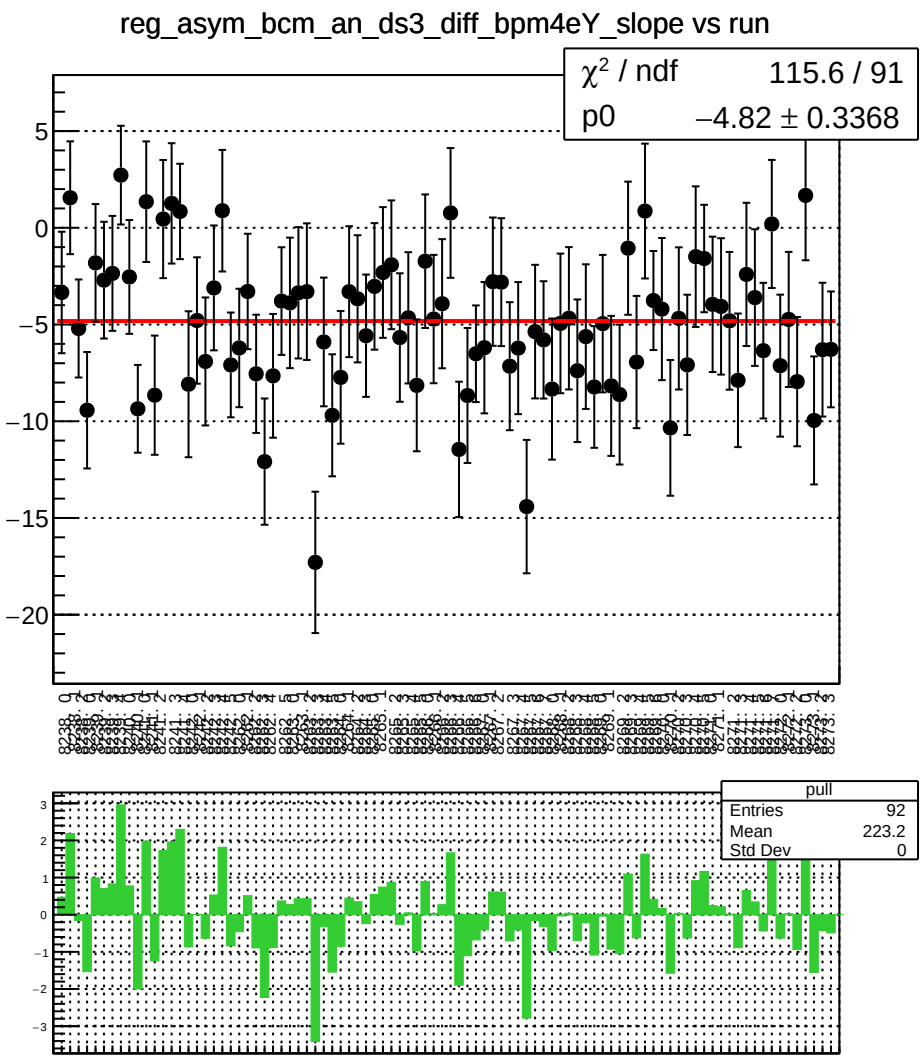

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 110.1 / 91
p0 3.728 ± 0.1524
pull
Entries 92
Mean 112.2
Std Dev 54.9

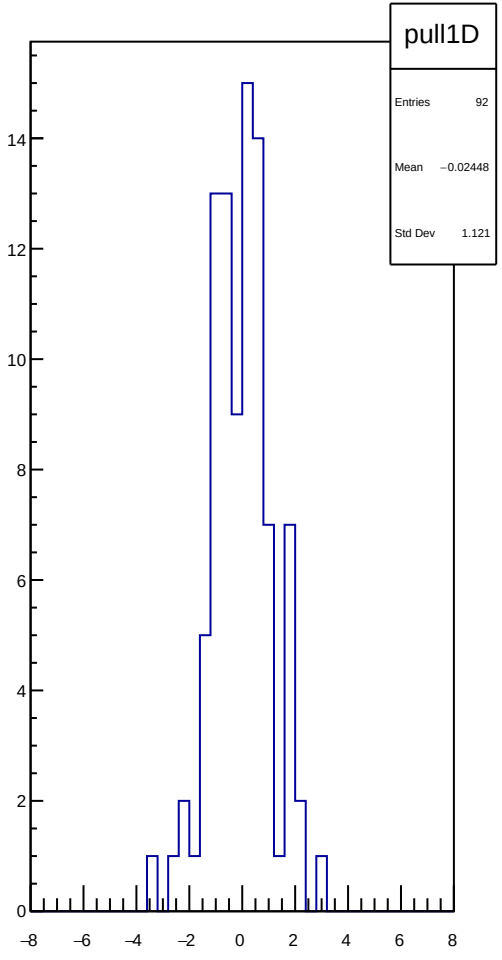

pull1D
Entries 92
Mean 0.02413
Std Dev 1.094

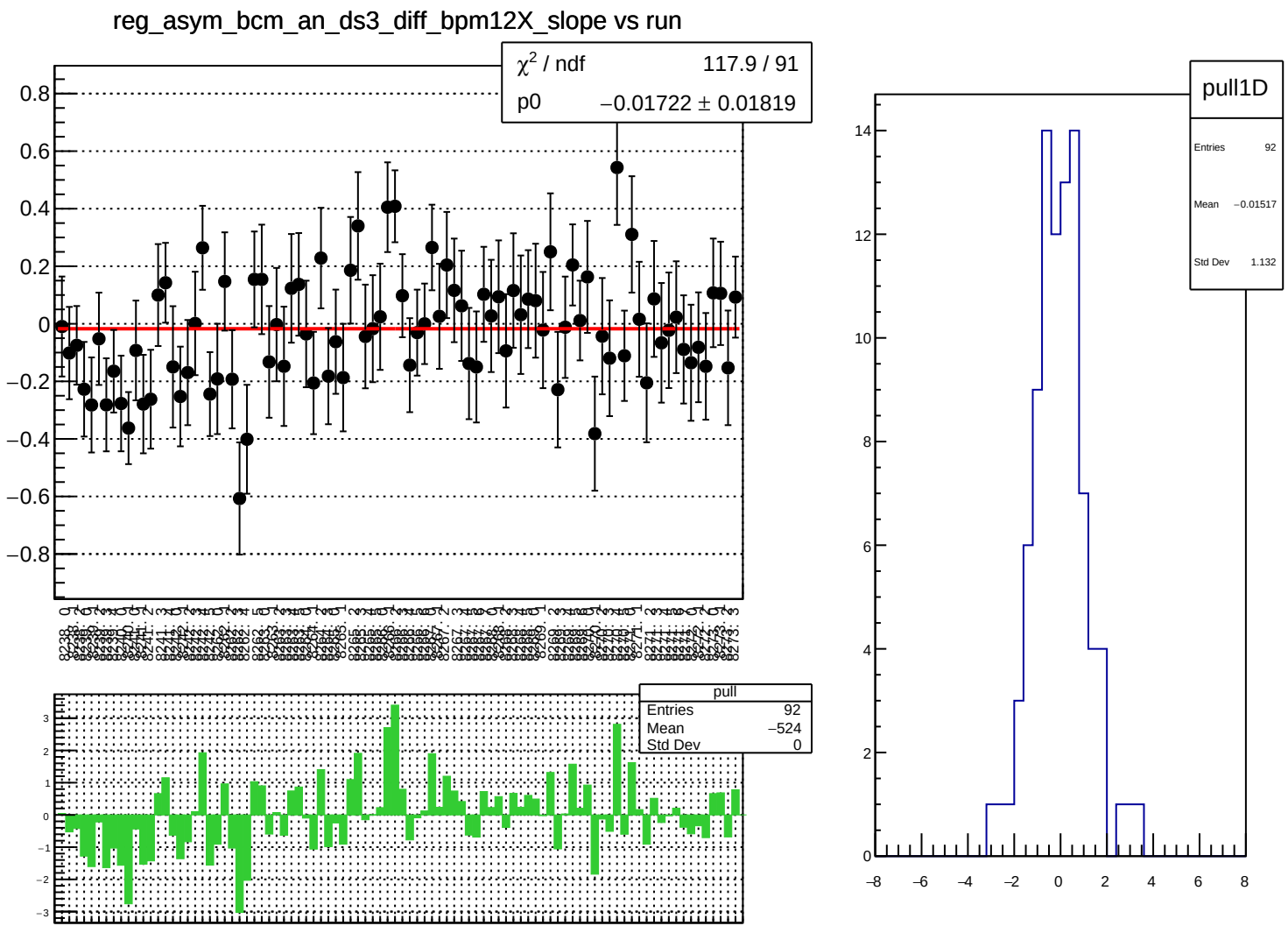

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 113.3 / 91
p0 3.817 ± 0.3236
pull
Entries 92
Mean 198.4
Std Dev 0

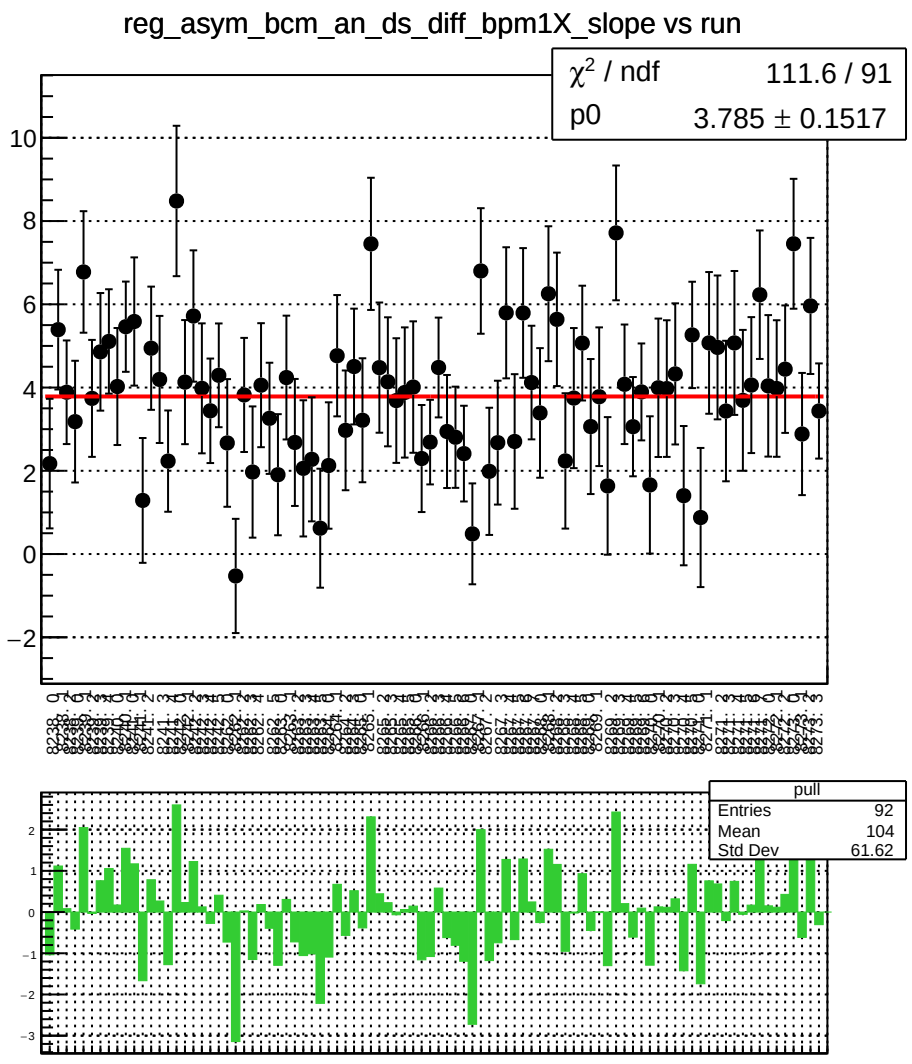

pull1D
Entries 92
Mean 0.02054
Std Dev 1.109

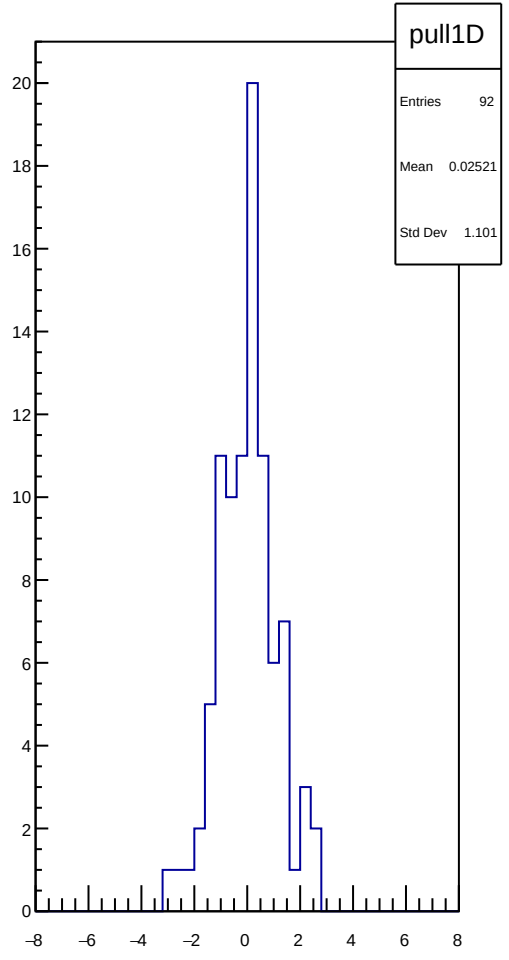

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 104.7 / 91
p0 −3.803 ± 0.1734
pull
Entries 92
Mean 50.89
Std Dev 77.88
pull1D
Entries 92
Mean −0.03255
Std Dev 1.066

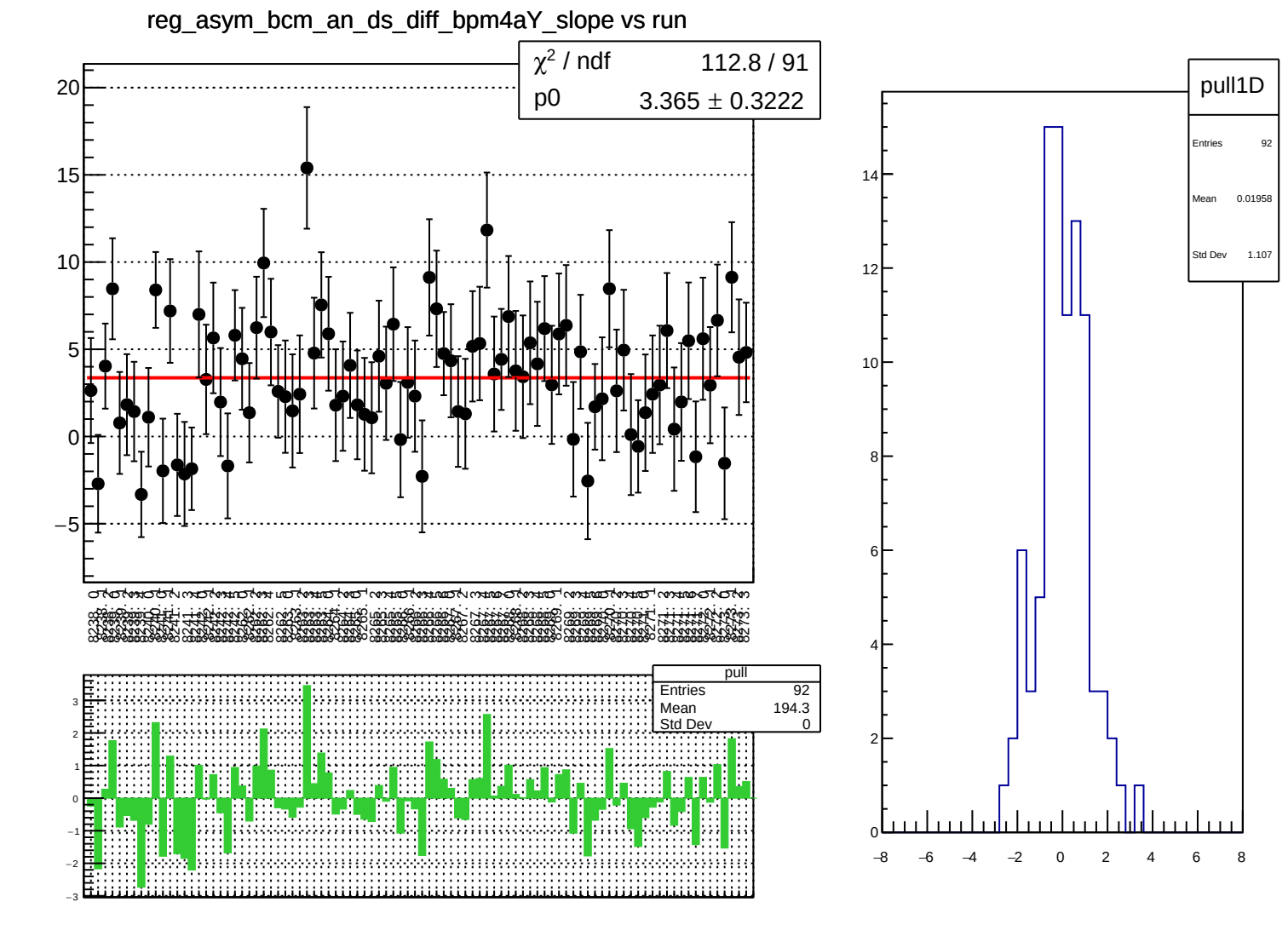

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 115.6 / 91
p0 −4.82 ± 0.3368
pull
Entries 92
Mean 223.2
Std Dev 0

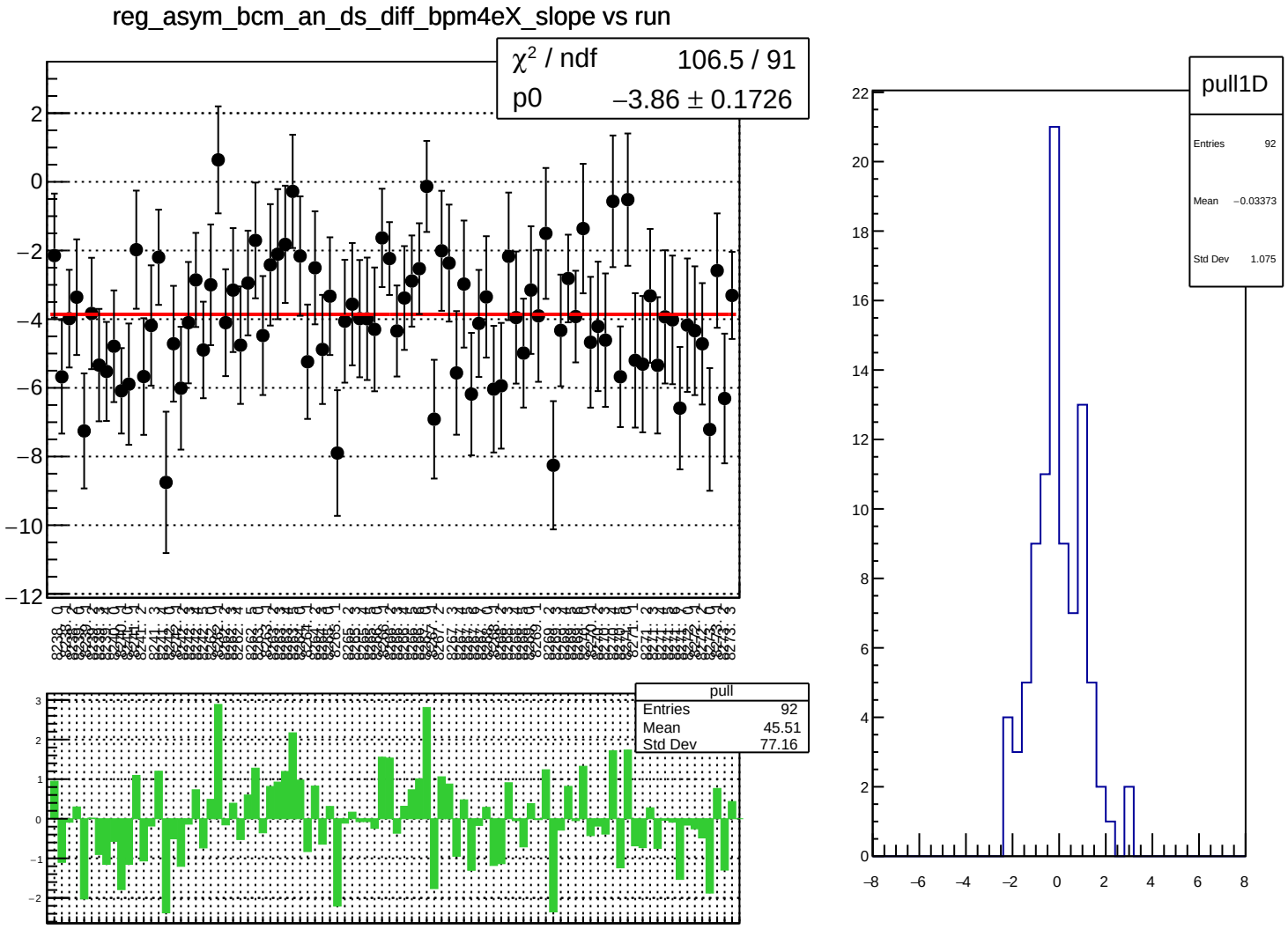

pull1D
Entries 92
Mean −0.02448
Std Dev 1.121

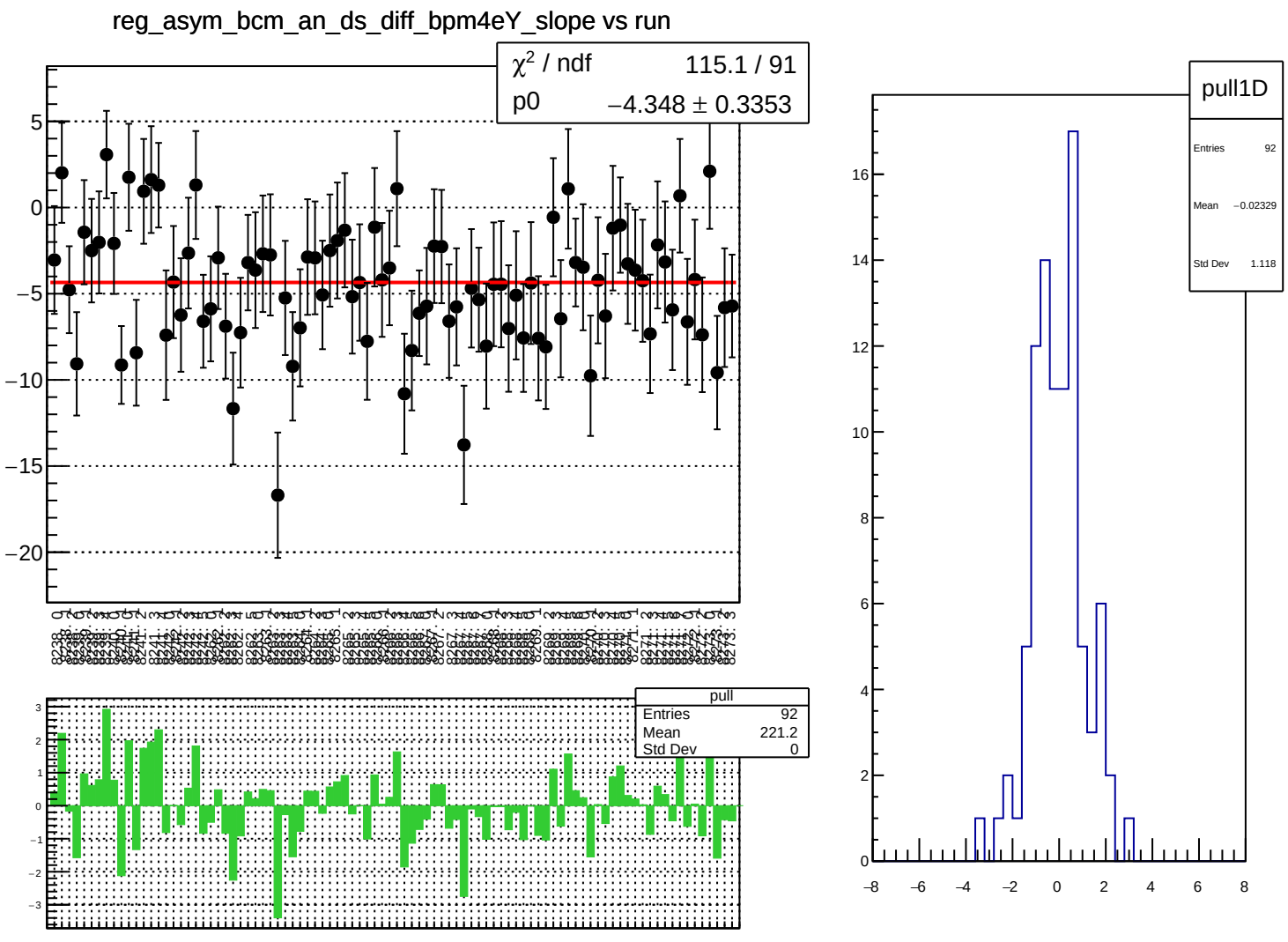

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 117.9 / 91
p0 −0.01722 ± 0.01819
pull
Entries 92
Mean −524
Std Dev 0
pull1D
Entries 92
Mean −0.01517
Std Dev 1.132

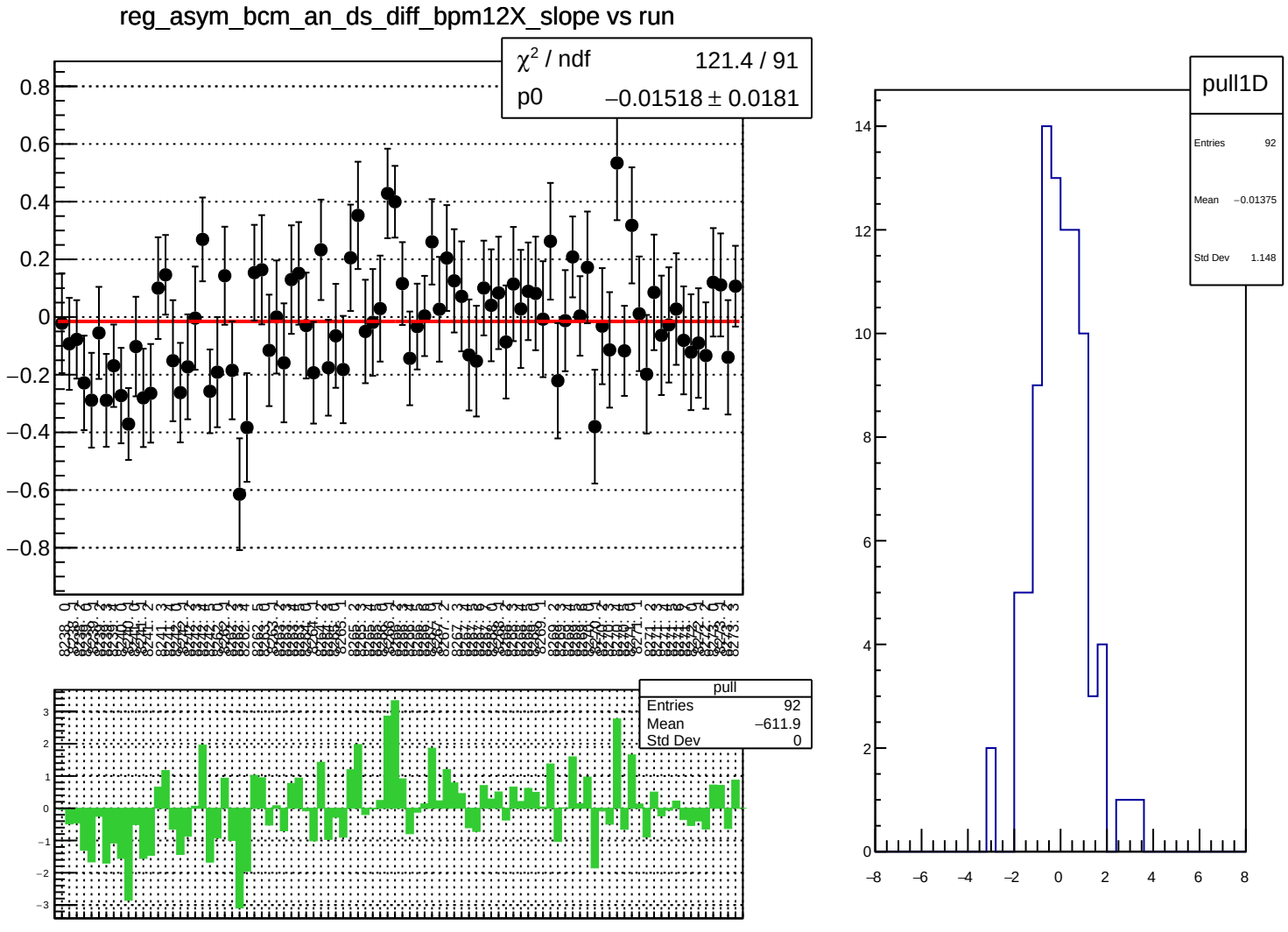

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 111.6 / 91
p0 3.785 ± 0.1517
pull
Entries 92
Mean 104
Std Dev 61.62

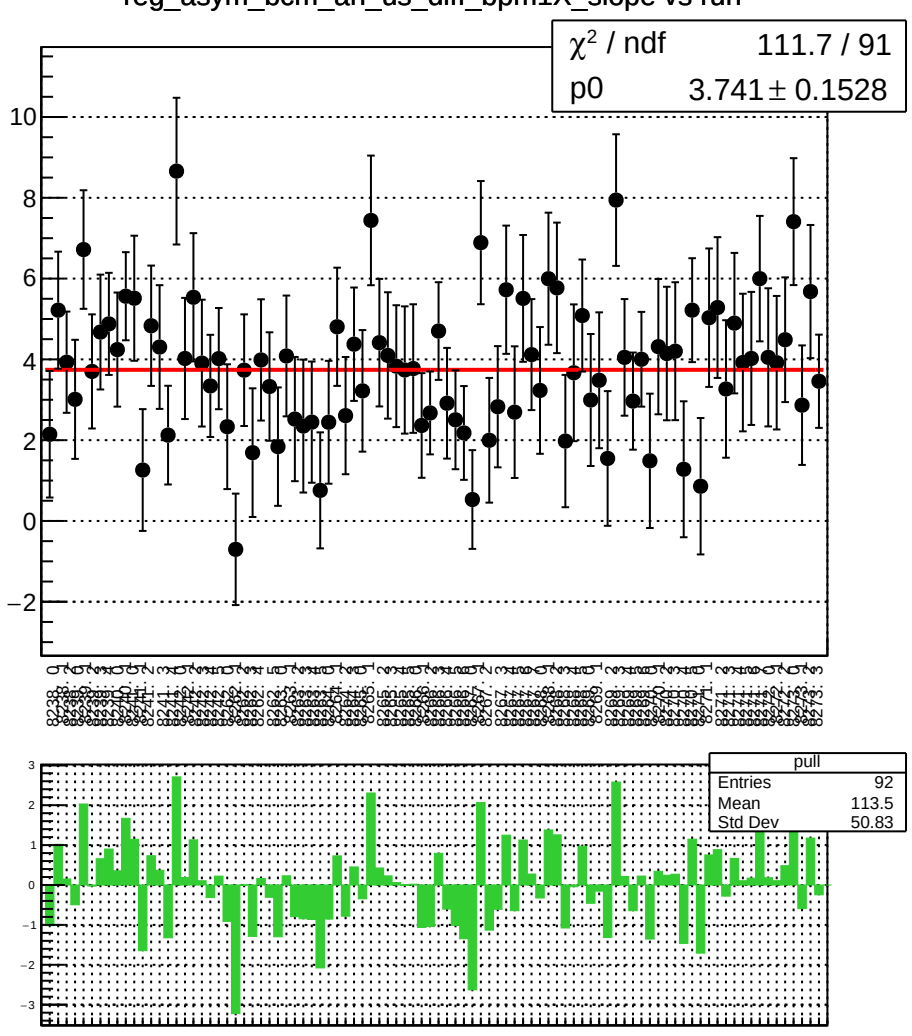

pull1D
Entries 92
Mean 0.02521
Std Dev 1.101

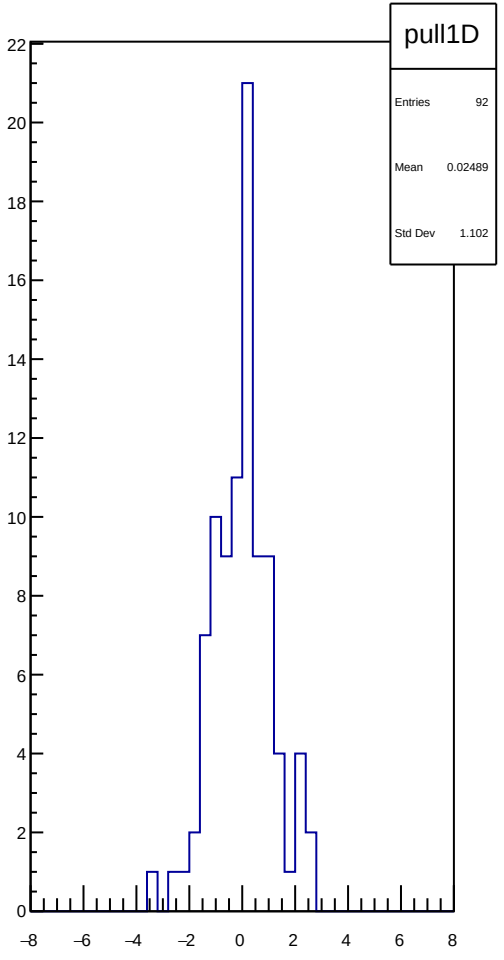

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 112.8 / 91
p0 3.365 ± 0.3222
pull
Entries 92
Mean 194.3
Std Dev 0
pull1D
Entries 92
Mean 0.01958
Std Dev 1.107

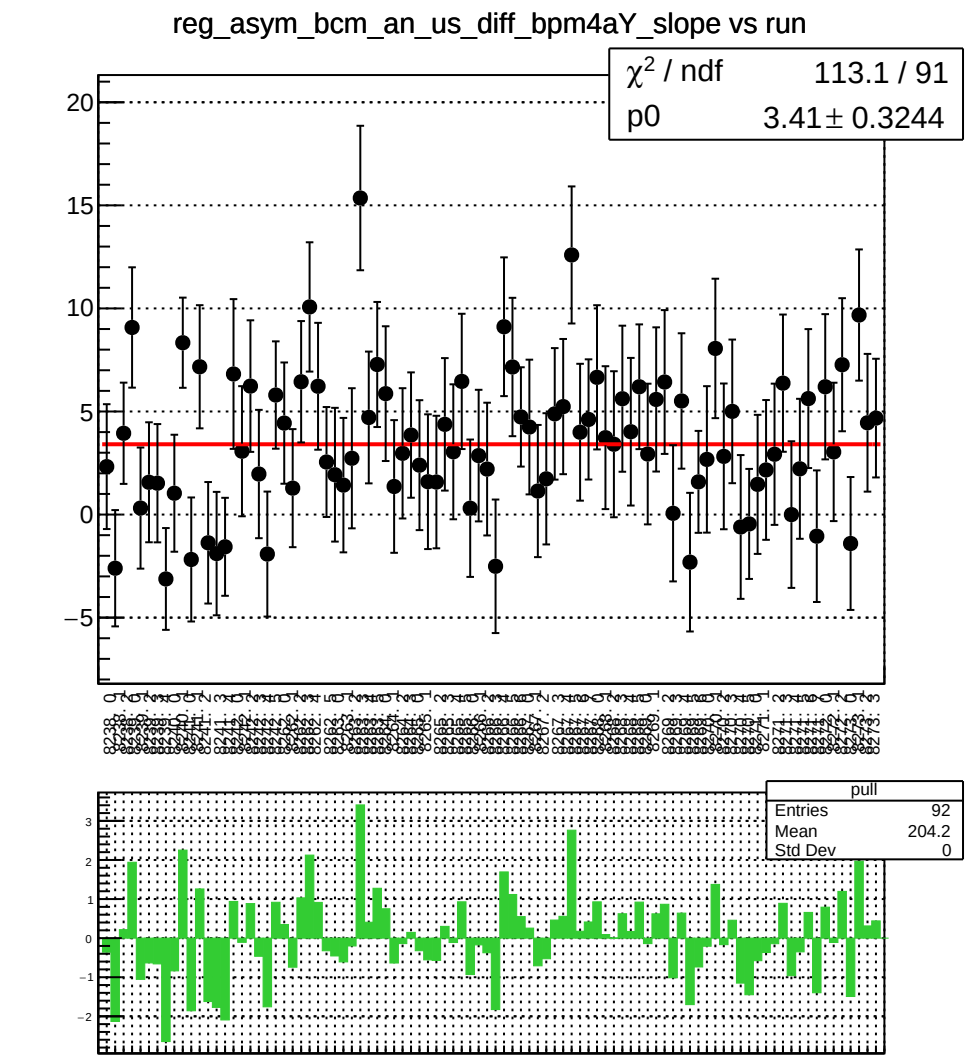

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 106.5 / 91
p0 −3.86 ± 0.1726
pull
Entries 92
Mean 45.51
Std Dev 77.16
pull1D
Entries 92
Mean −0.03373
Std Dev 1.075

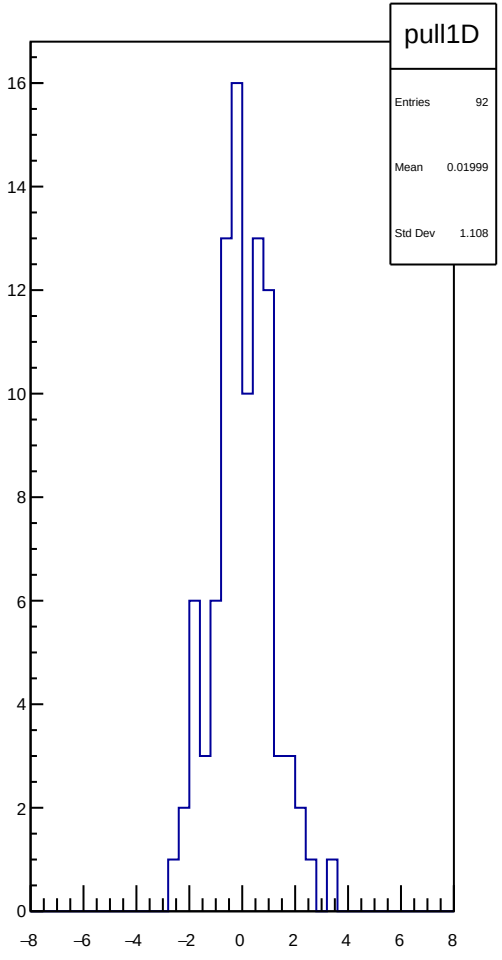

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 115.1 / 91
p0 −4.348 ± 0.3353
pull
Entries 92
Mean 221.2
Std Dev 0
pull1D
Entries 92
Mean −0.02329
Std Dev 1.118

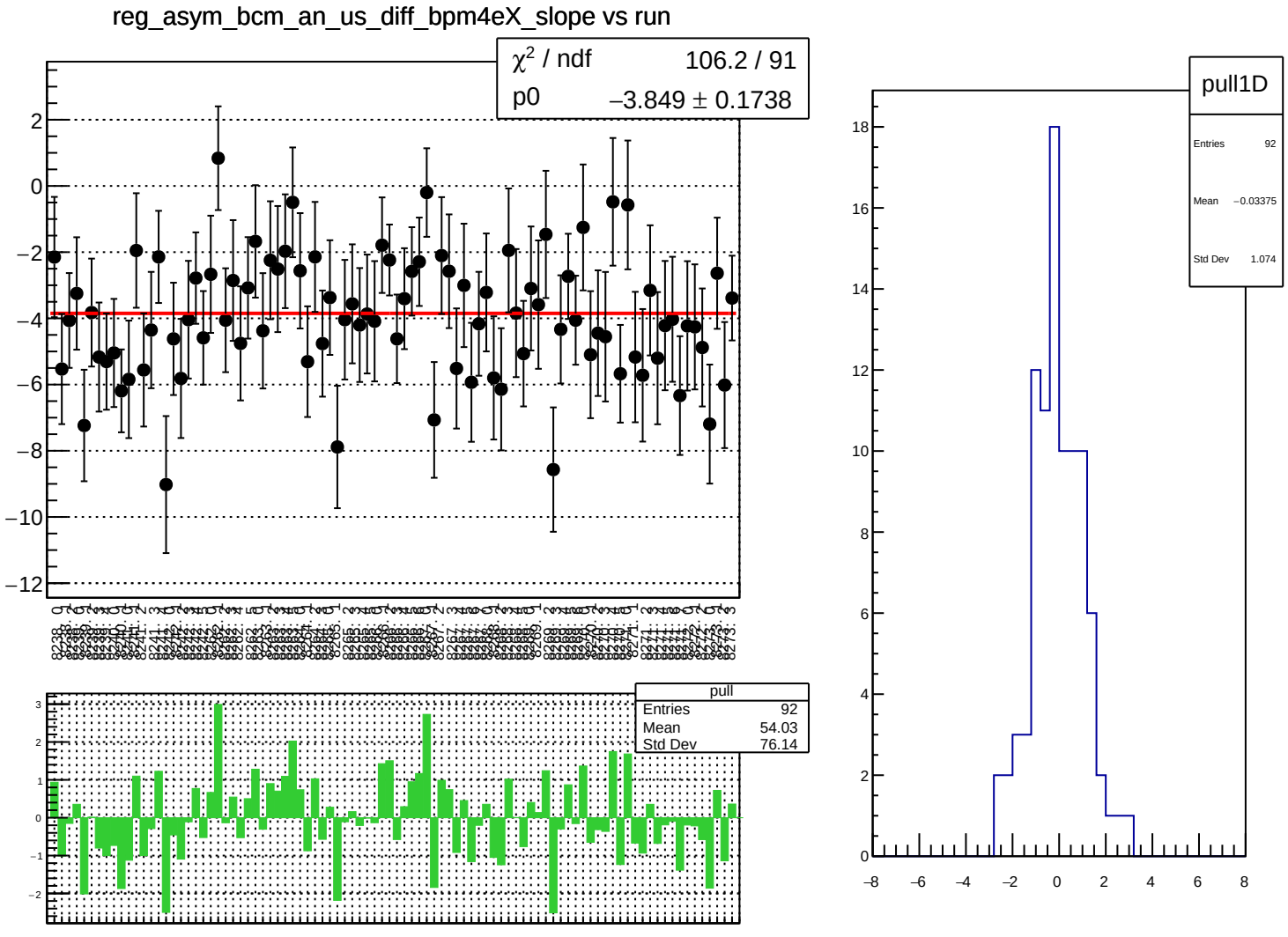

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 121.4 / 91
p0 −0.01518 ± 0.0181
pull
Entries 92
Mean −611.9
Std Dev 0
pull1D
Entries 92
Mean −0.01375
Std Dev 1.148

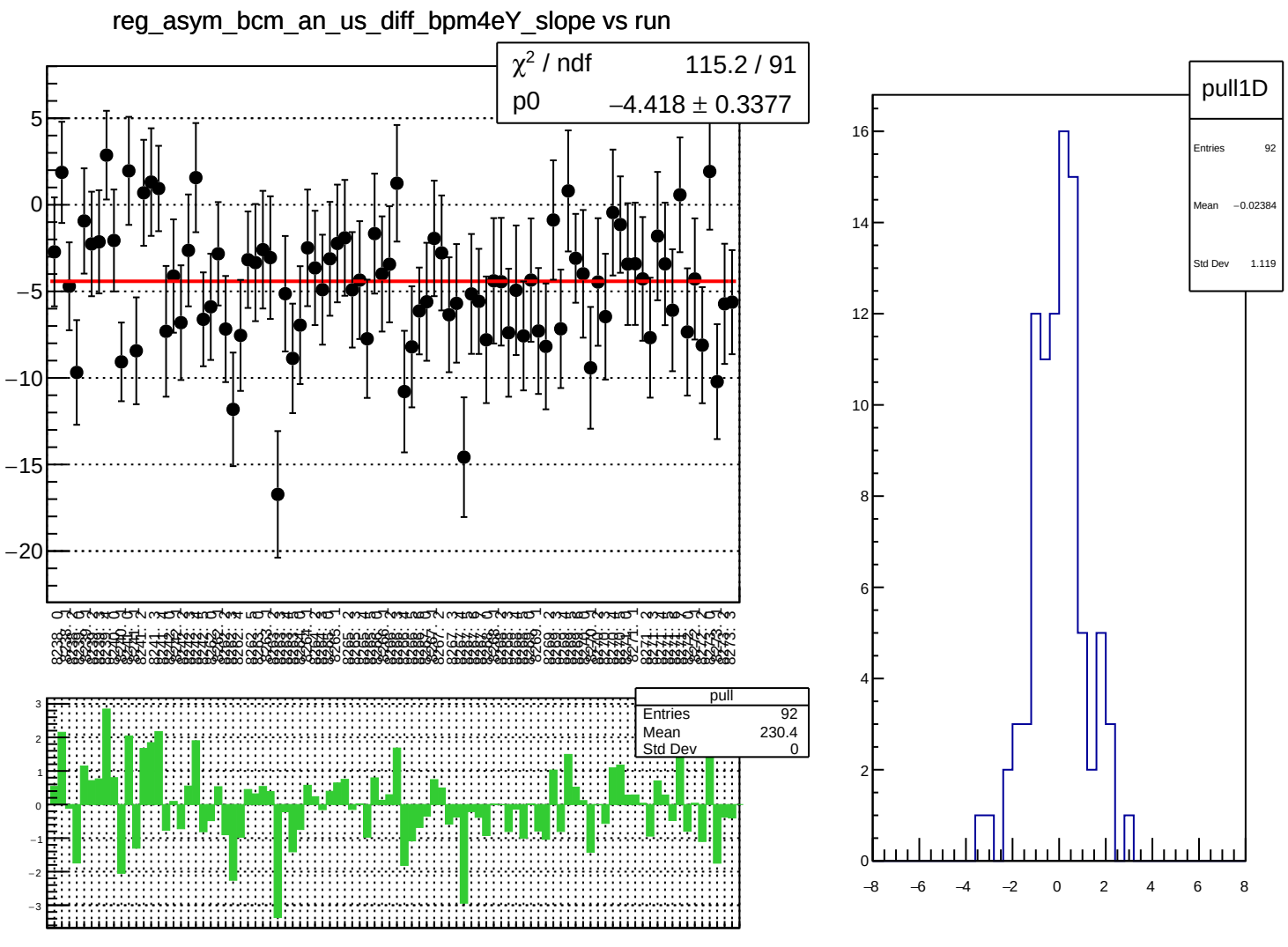

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 111.7 / 91
p0 3.741 ± 0.1528
pull
Entries 92
Mean 113.5
Std Dev 50.83

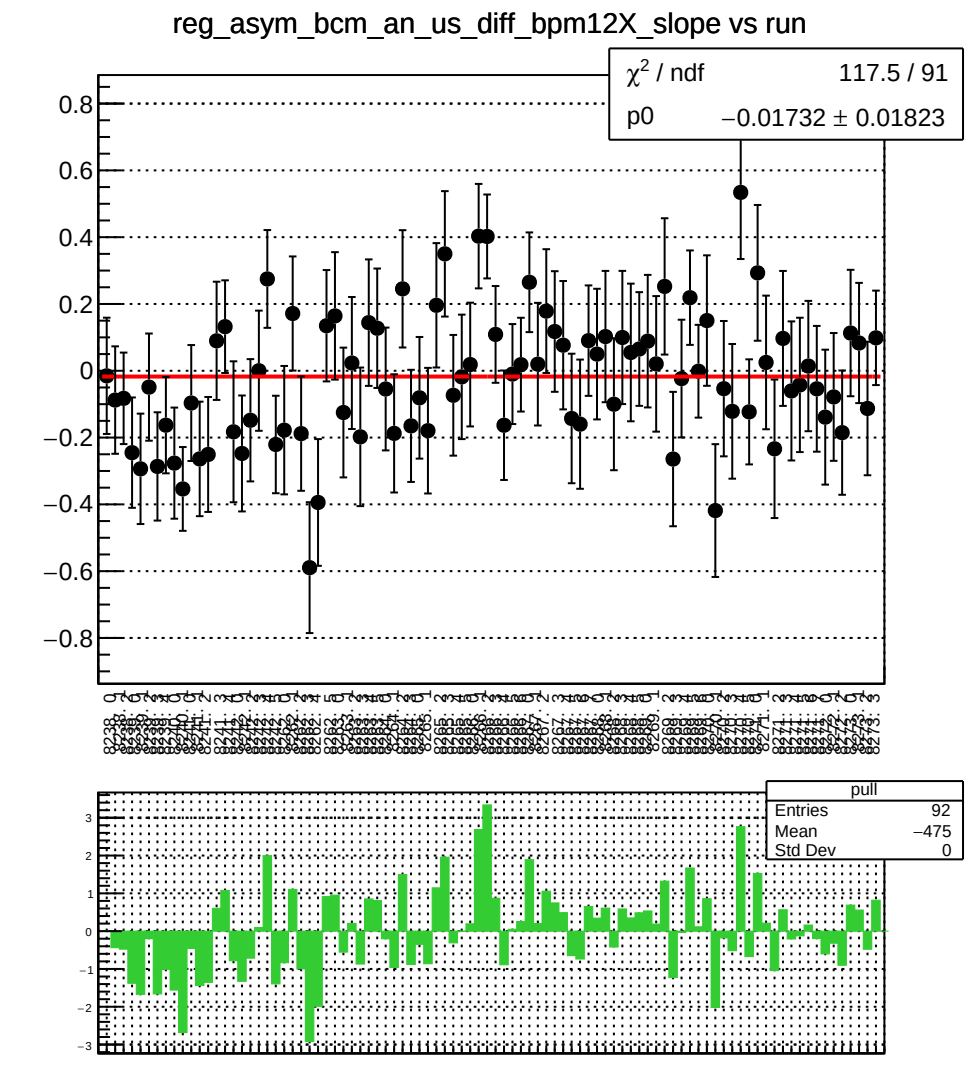

pull1D
Entries 92
Mean 0.02489
Std Dev 1.102

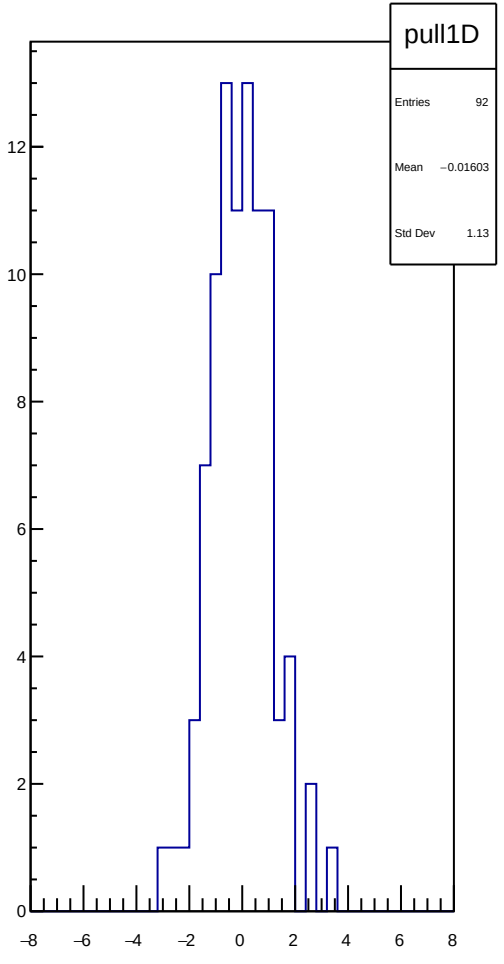

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 113.1 / 91
p0 3.41 ± 0.3244
pull
Entries 92
Mean 204.2
Std Dev 0

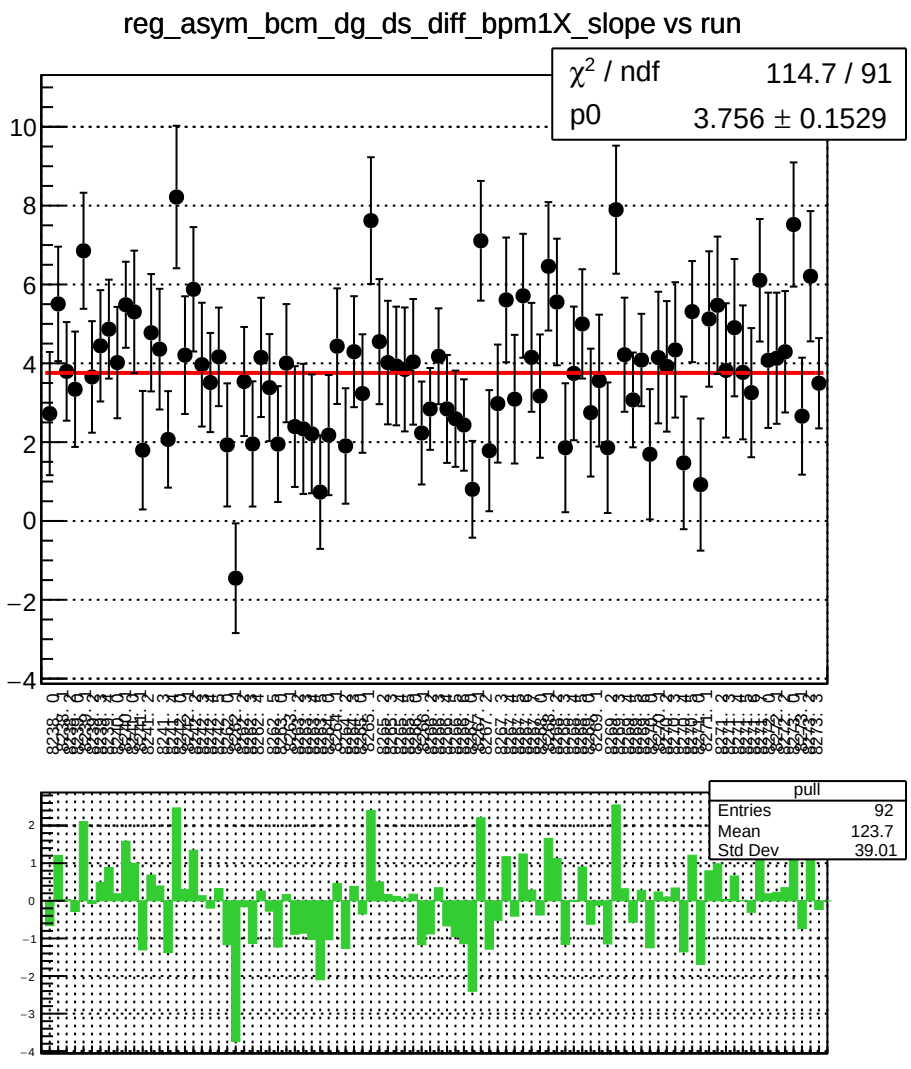

pull1D
Entries 92
Mean 0.01999
Std Dev 1.108

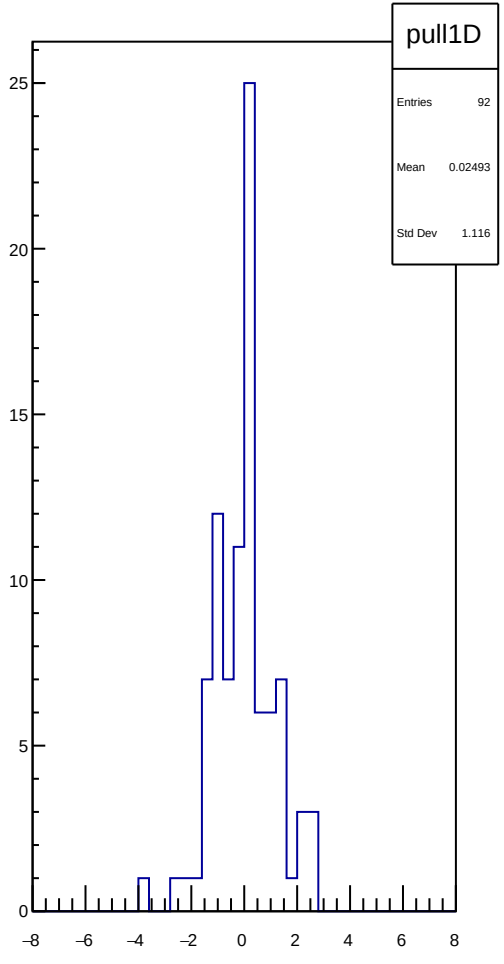

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 106.2 / 91
p0 −3.849 ± 0.1738
pull
Entries 92
Mean 54.03
Std Dev 76.14
pull1D
Entries 92
Mean −0.03375
Std Dev 1.074

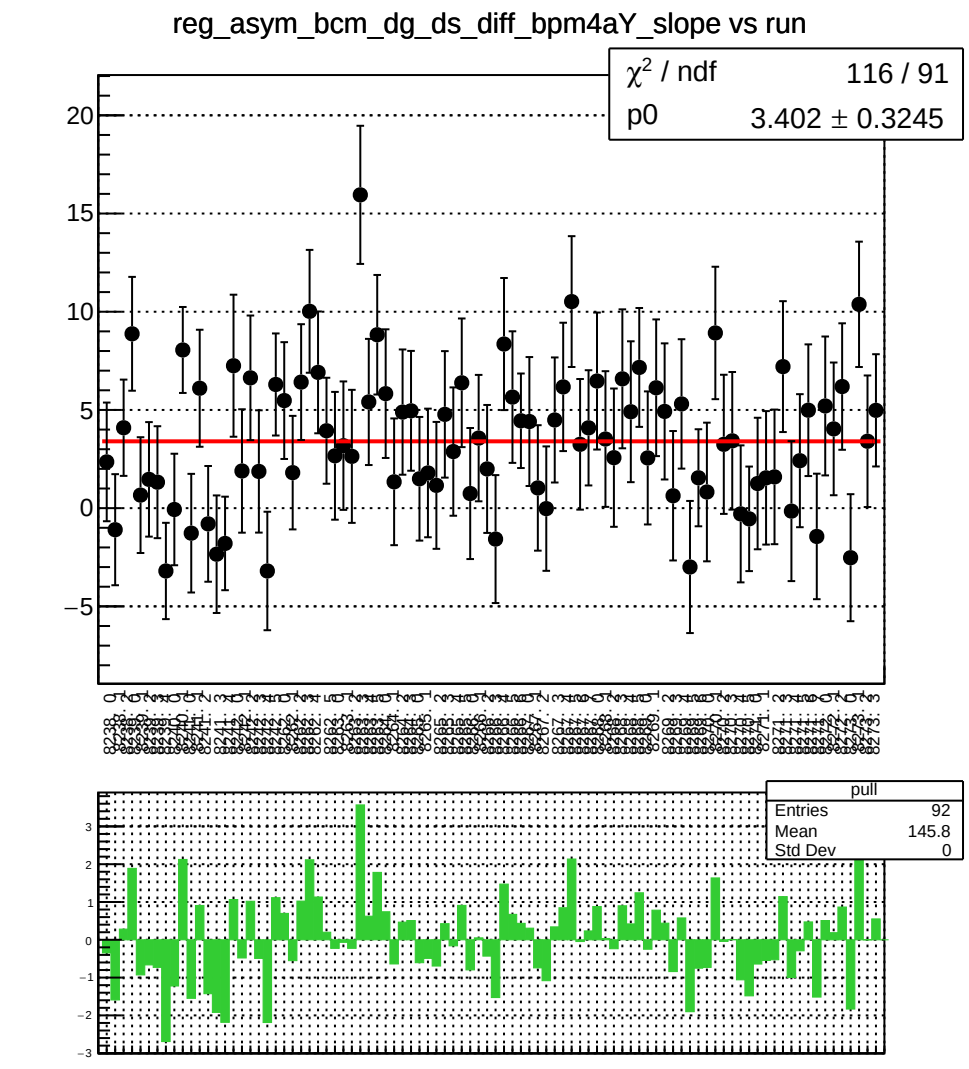

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 115.2 / 91
p0 −4.418 ± 0.3377
pull
Entries 92
Mean 230.4
Std Dev 0
pull1D
Entries 92
Mean −0.02384
Std Dev 1.119

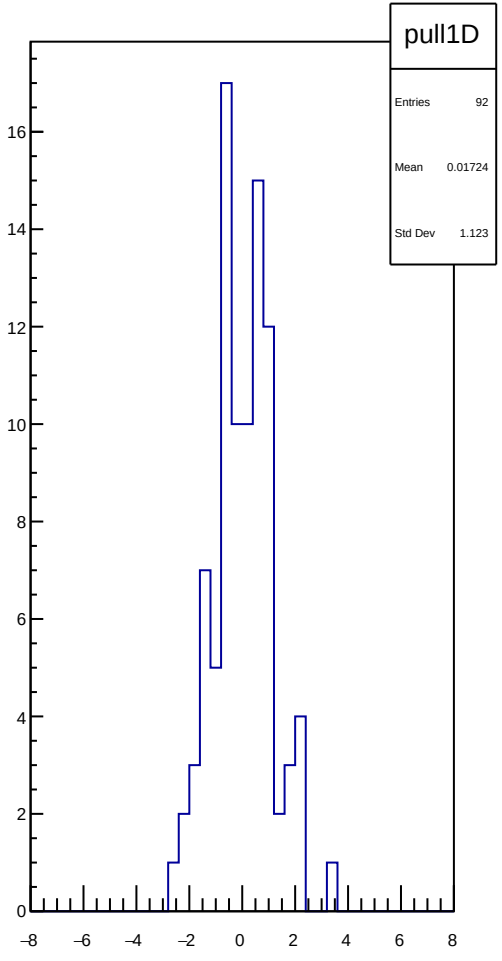

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 117.5 / 91
p0 −0.01732 ± 0.01823
pull
Entries 92
Mean −475
Std Dev 0

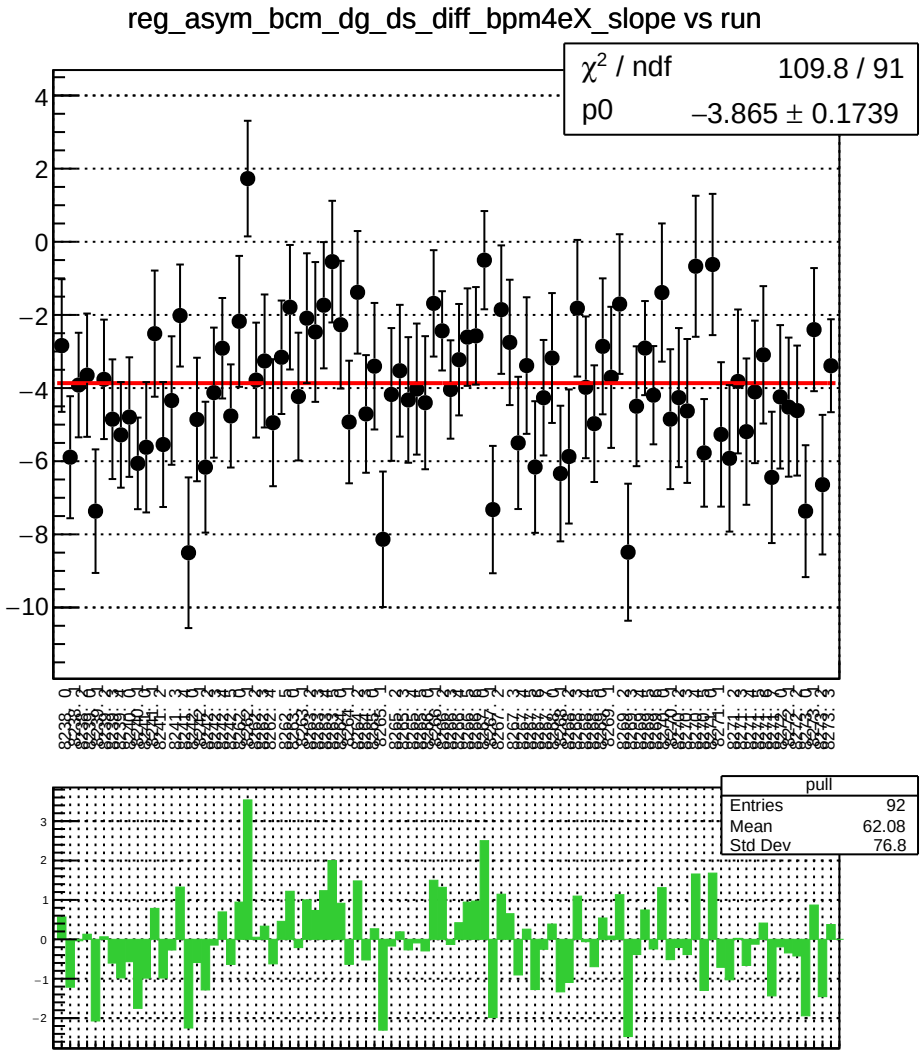

pull1D
Entries 92
Mean −0.01603
Std Dev 1.13

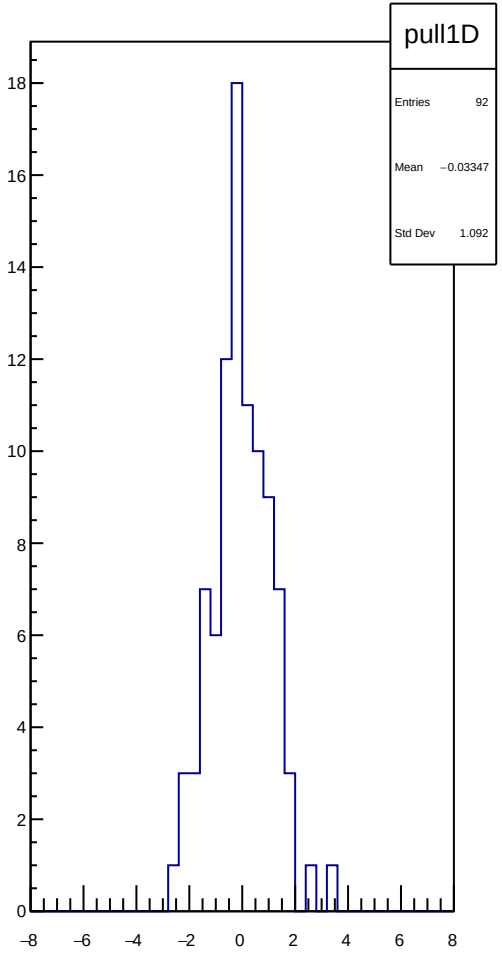

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 114.7 / 91
p0 3.756 ± 0.1529
pull
Entries 92
Mean 123.7
Std Dev 39.01

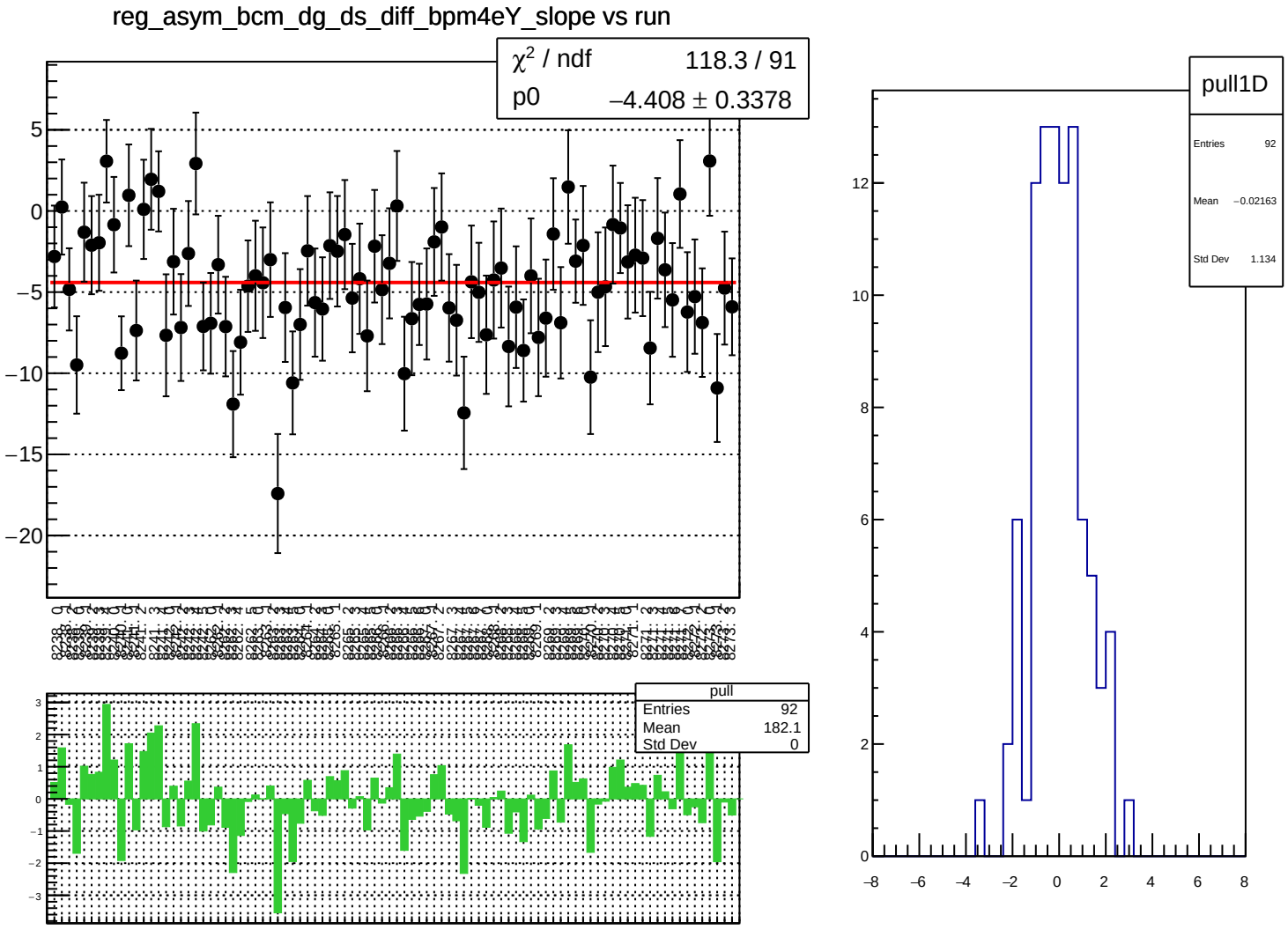

pull1D
Entries 92
Mean 0.02493
Std Dev 1.116

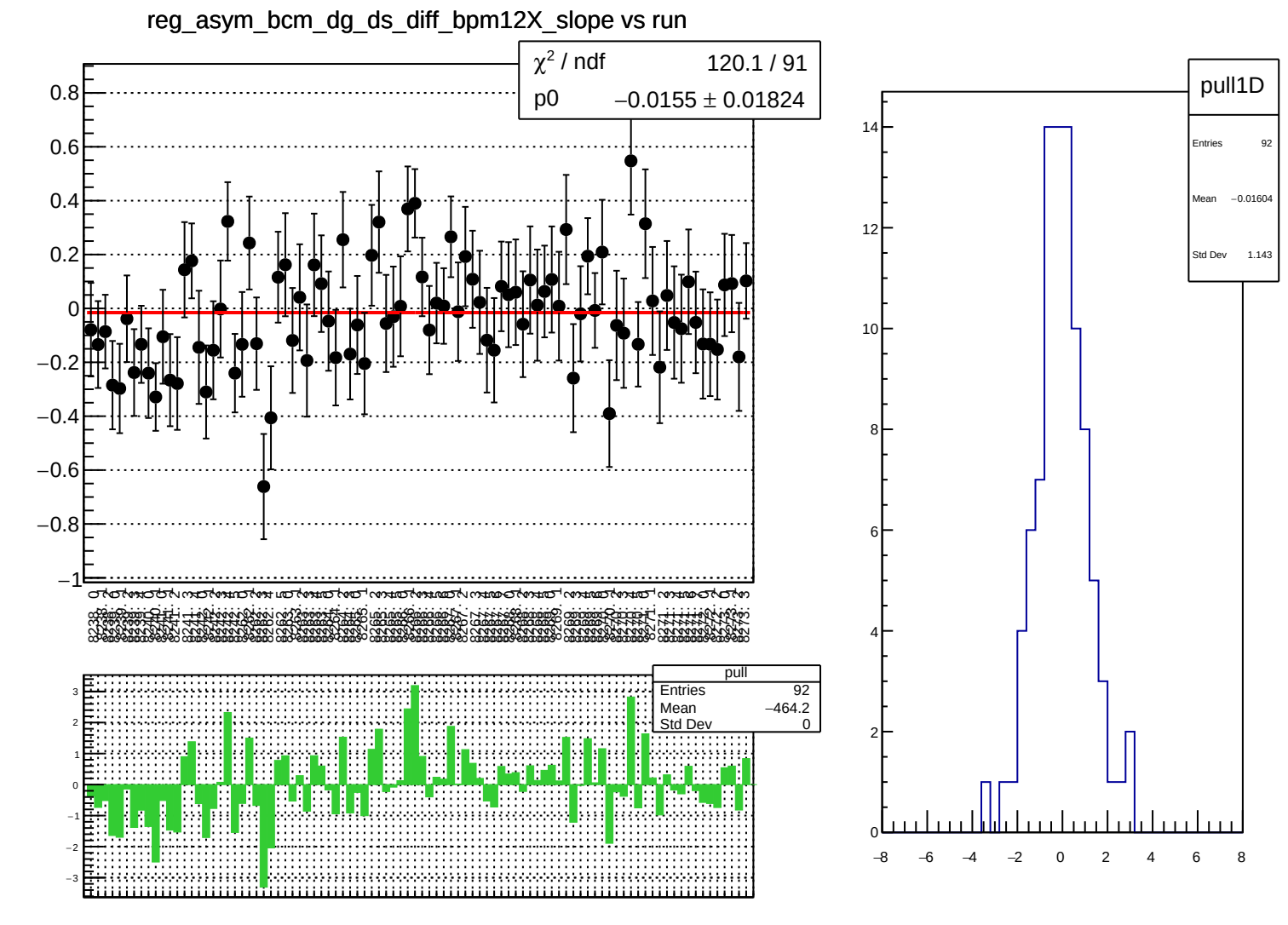

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 116 / 91
p0 3.402 ± 0.3245
pull
Entries 92
Mean 145.8
Std Dev 0

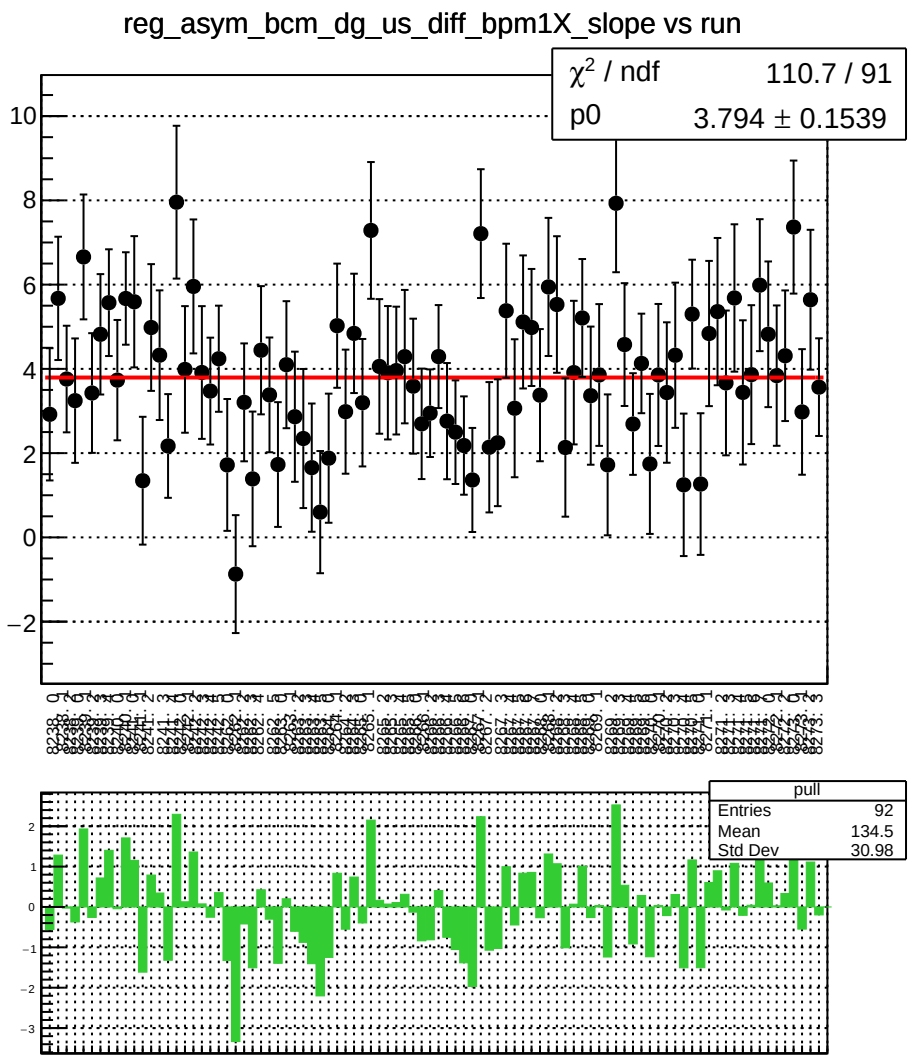

pull1D
Entries 92
Mean 0.01724
Std Dev 1.123

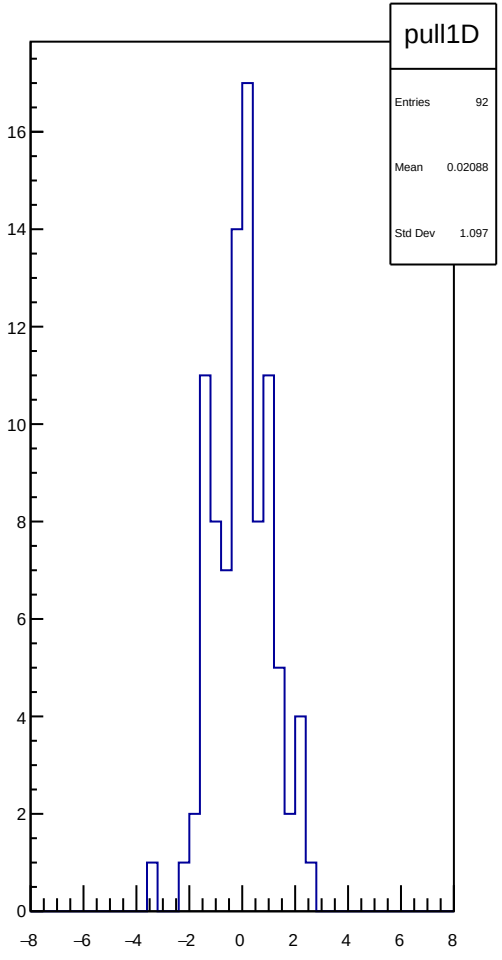

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 109.8 / 91
p0 −3.865 ± 0.1739
pull
Entries 92
Mean 62.08
Std Dev 76.8

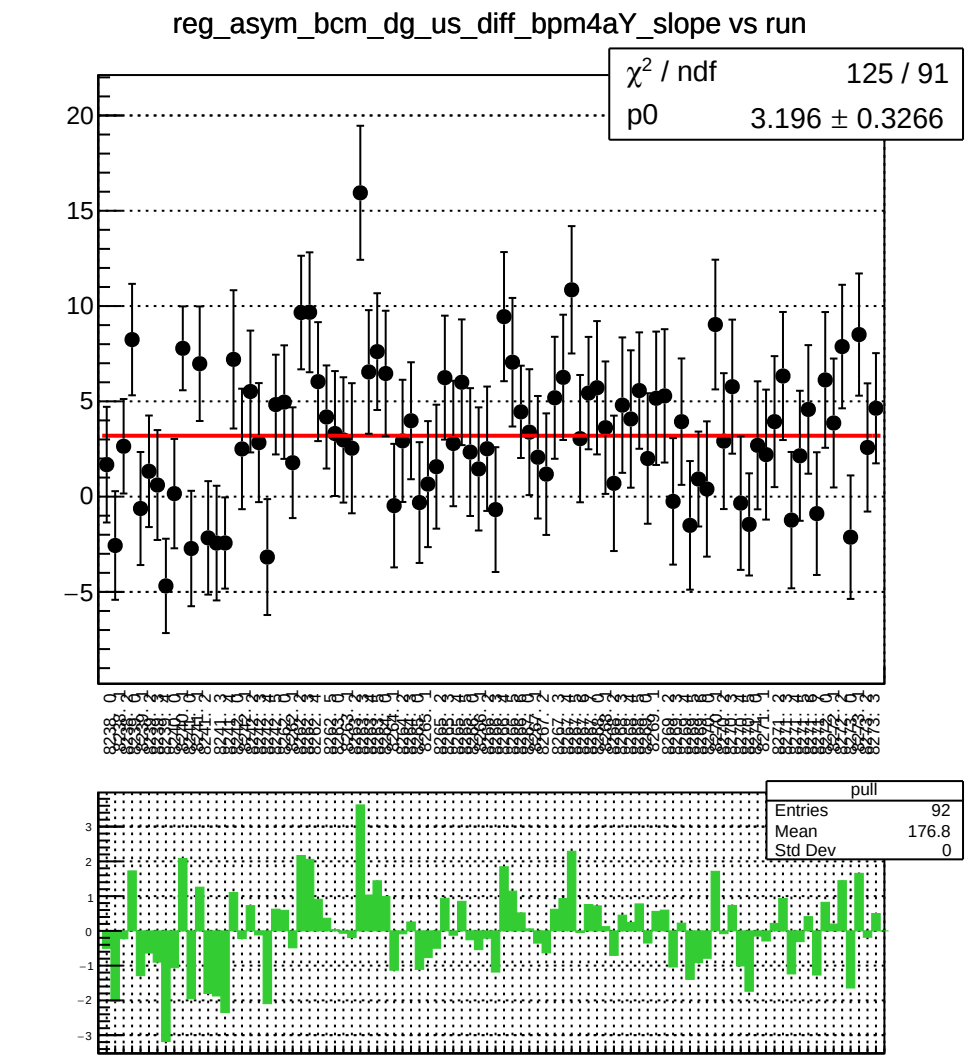

pull1D
Entries 92
Mean −0.03347
Std Dev 1.092

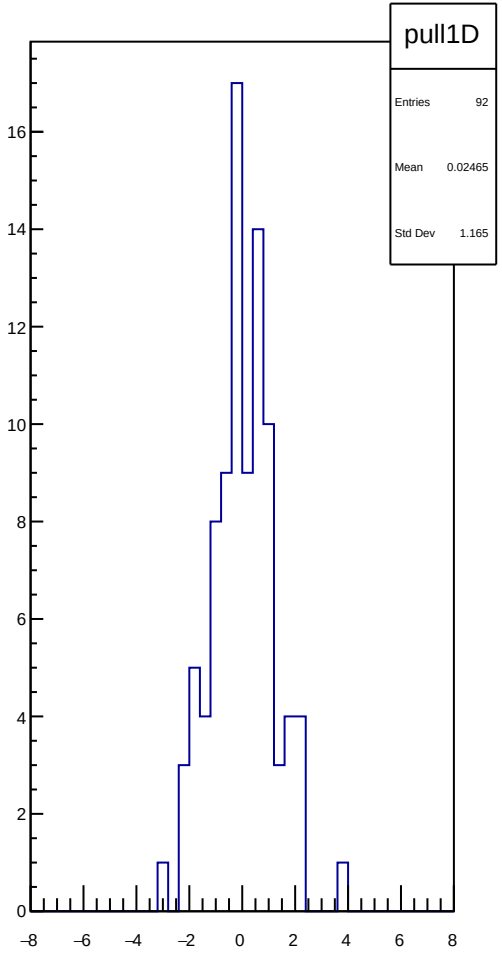

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 118.3 / 91
p0 −4.408 ± 0.3378
pull
Entries 92
Mean 182.1
Std Dev 0
pull1D
Entries 92
Mean −0.02163
Std Dev 1.134

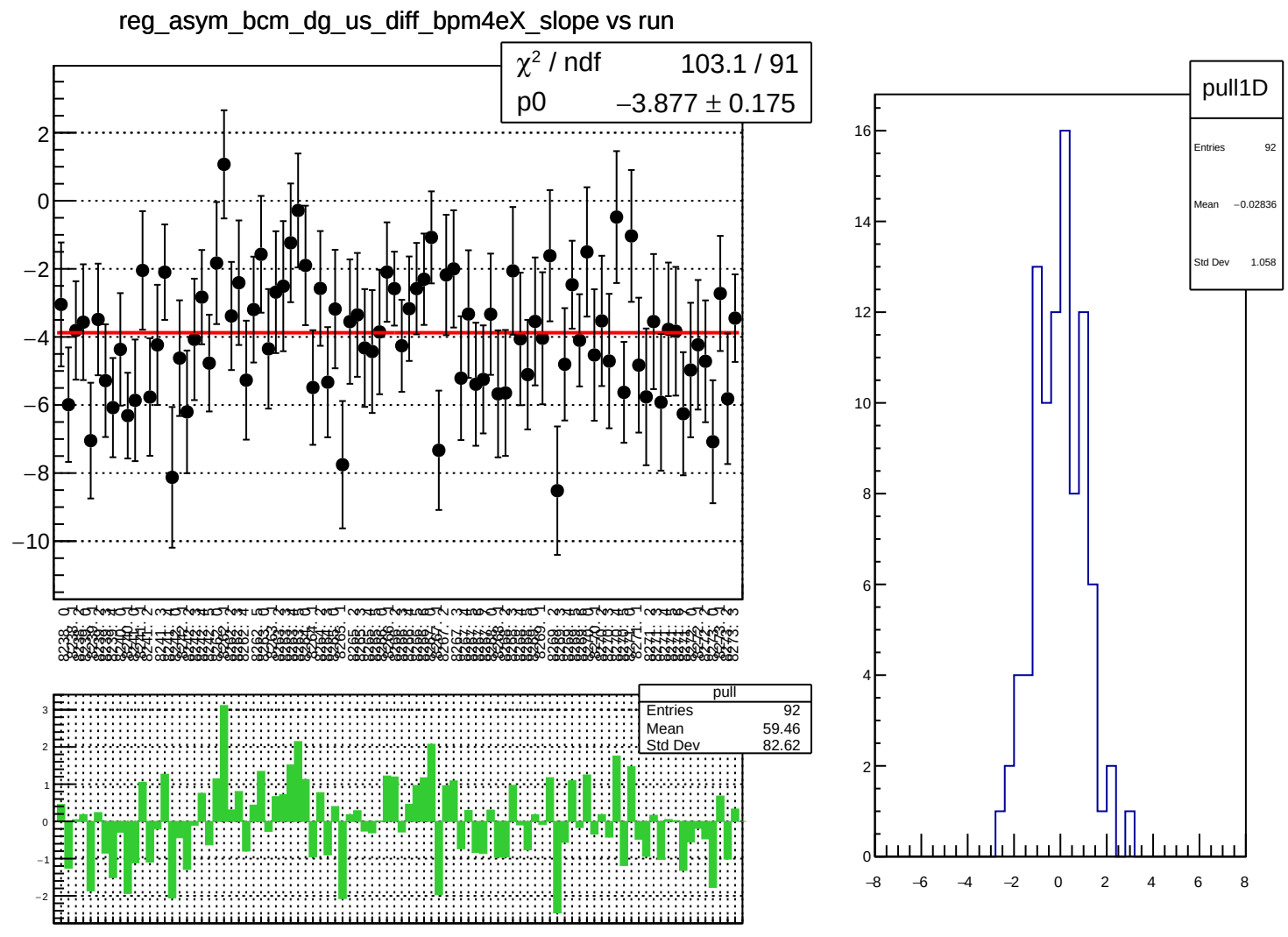

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 120.1 / 91
p0 −0.0155 ± 0.01824
pull
Entries 92
Mean −464.2
Std Dev 0
pull1D
Entries 92
Mean −0.01604
Std Dev 1.143

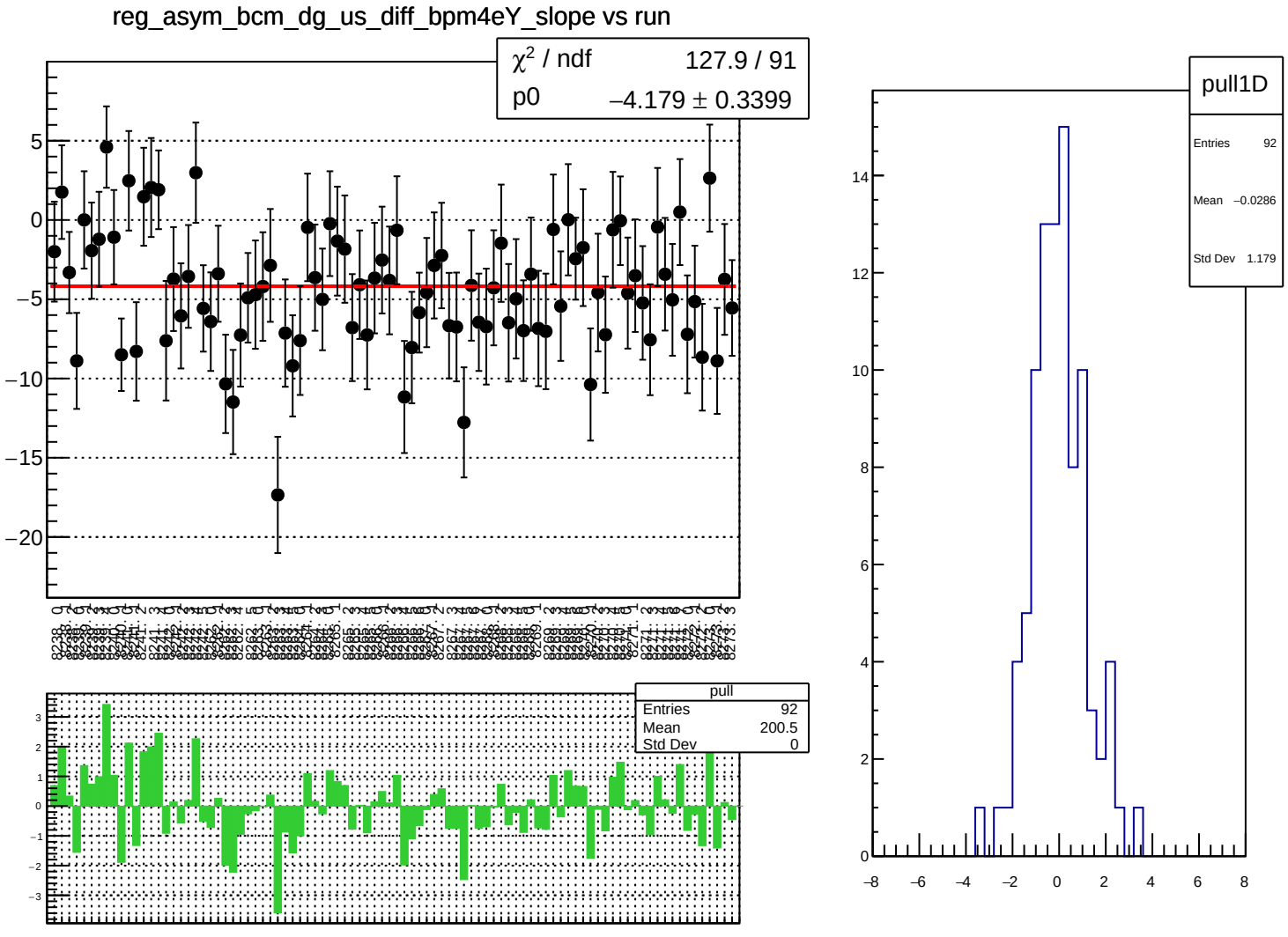

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 110.7 / 91
p0 3.794 ± 0.1539
pull
Entries 92
Mean 134.5
Std Dev 30.98

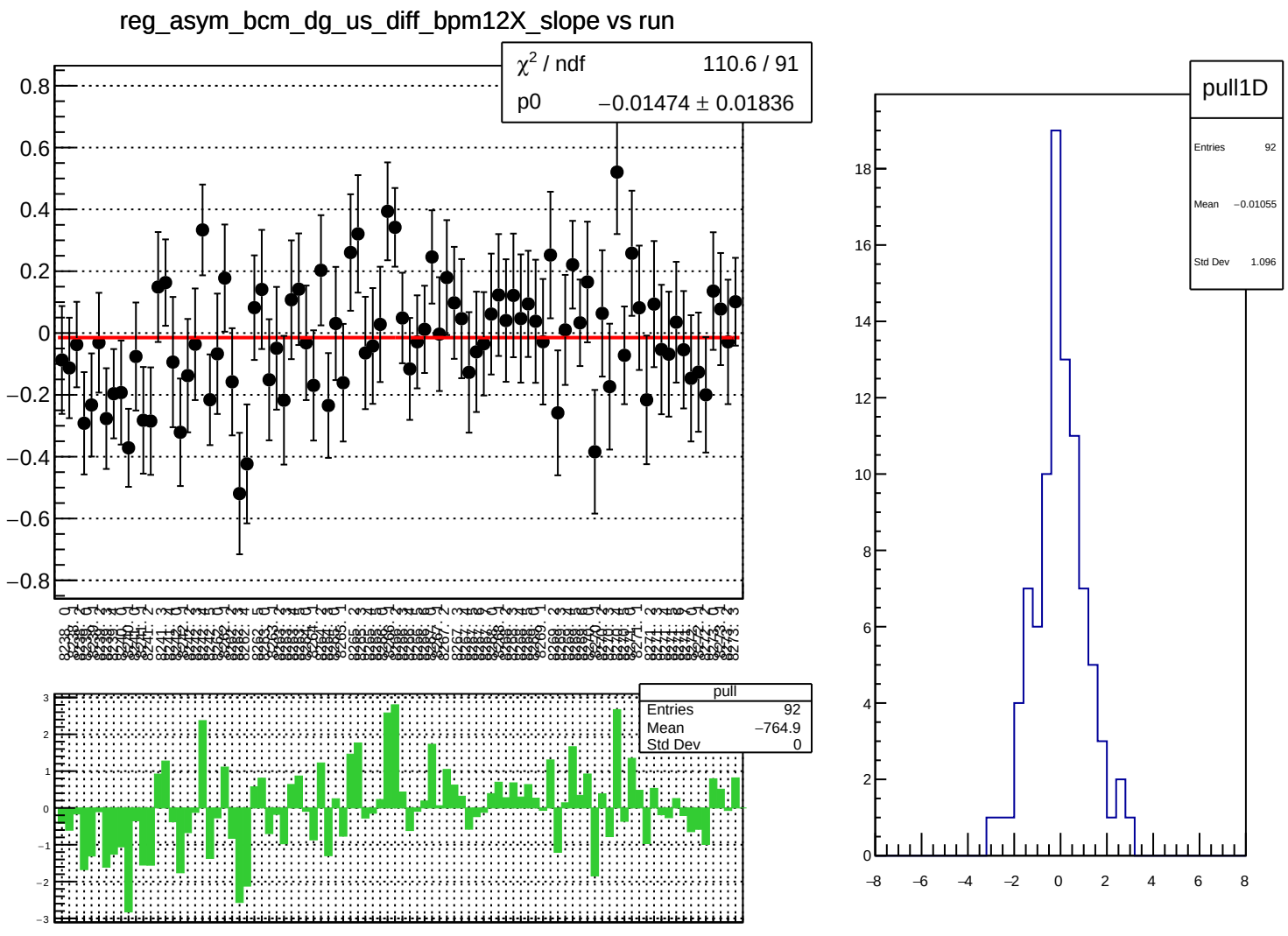

pull1D
Entries 92
Mean 0.02088
Std Dev 1.097

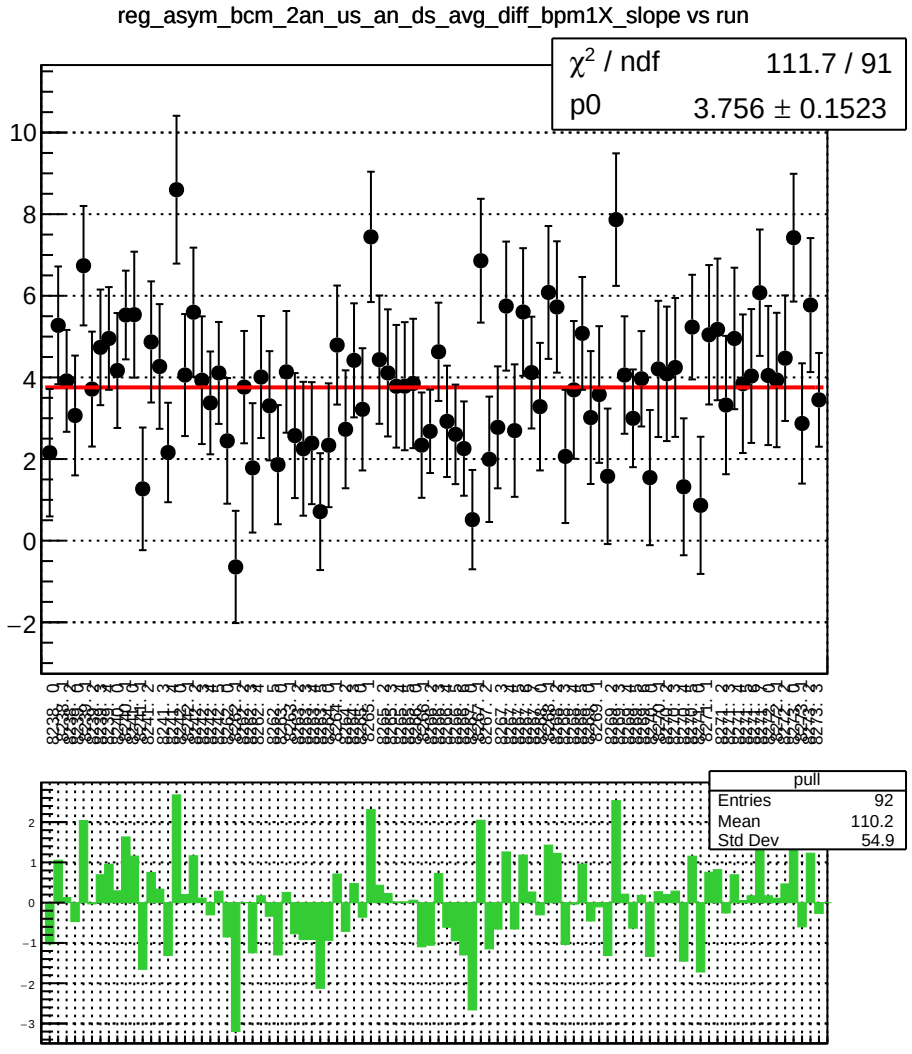

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 125 / 91
p0 3.196 ± 0.3266
pull
Entries 92
Mean 176.8
Std Dev 0

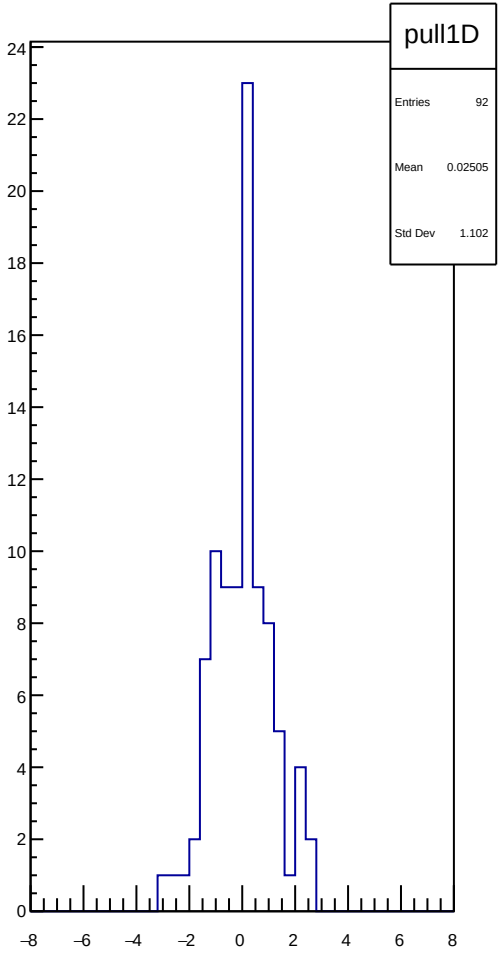

pull1D
Entries 92
Mean 0.02465
Std Dev 1.165

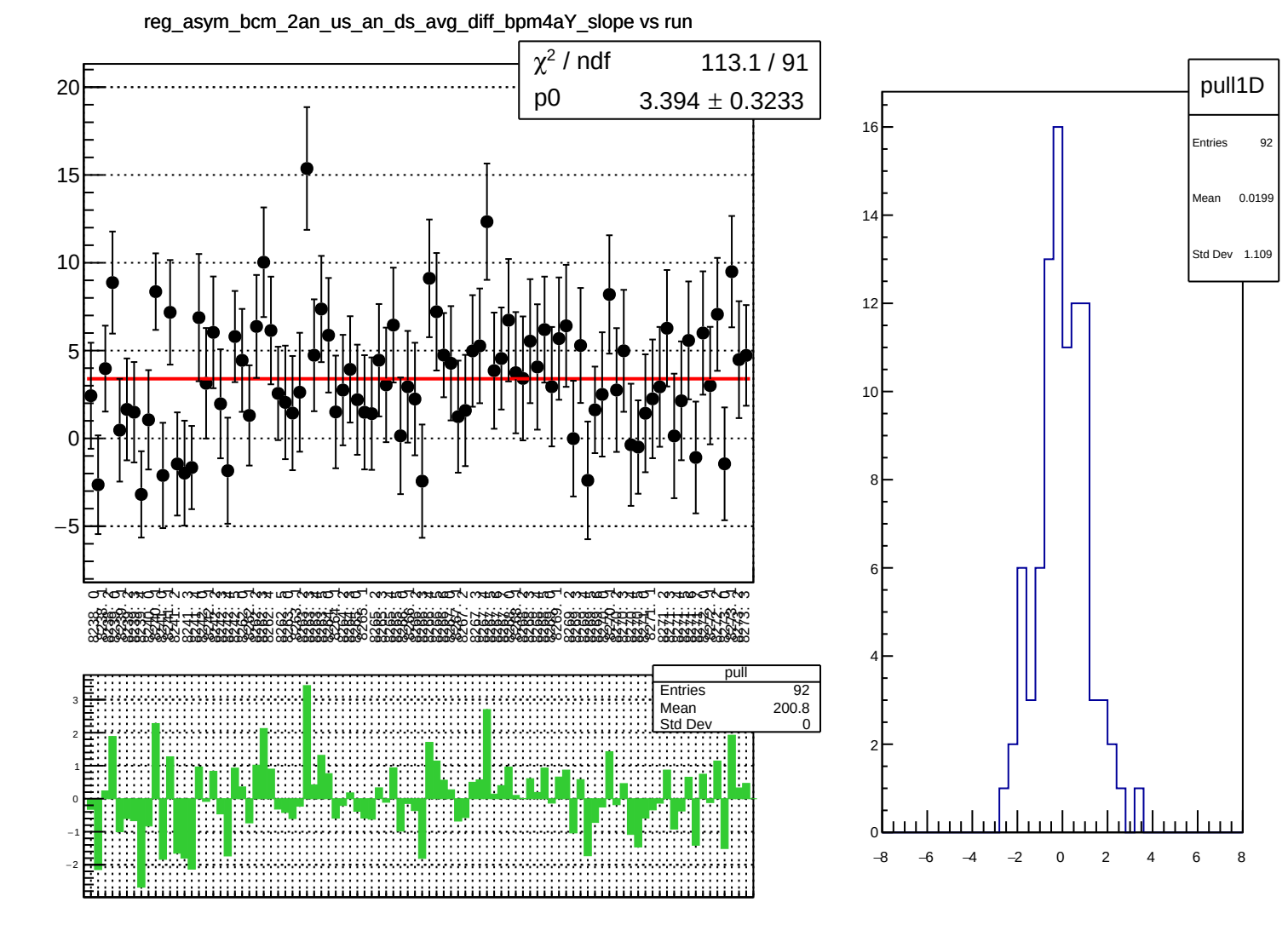

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 103.1 / 91
p0 −3.877 ± 0.175
pull
Entries 92
Mean 59.46
Std Dev 82.62
pull1D
Entries 92
Mean −0.02836
Std Dev 1.058

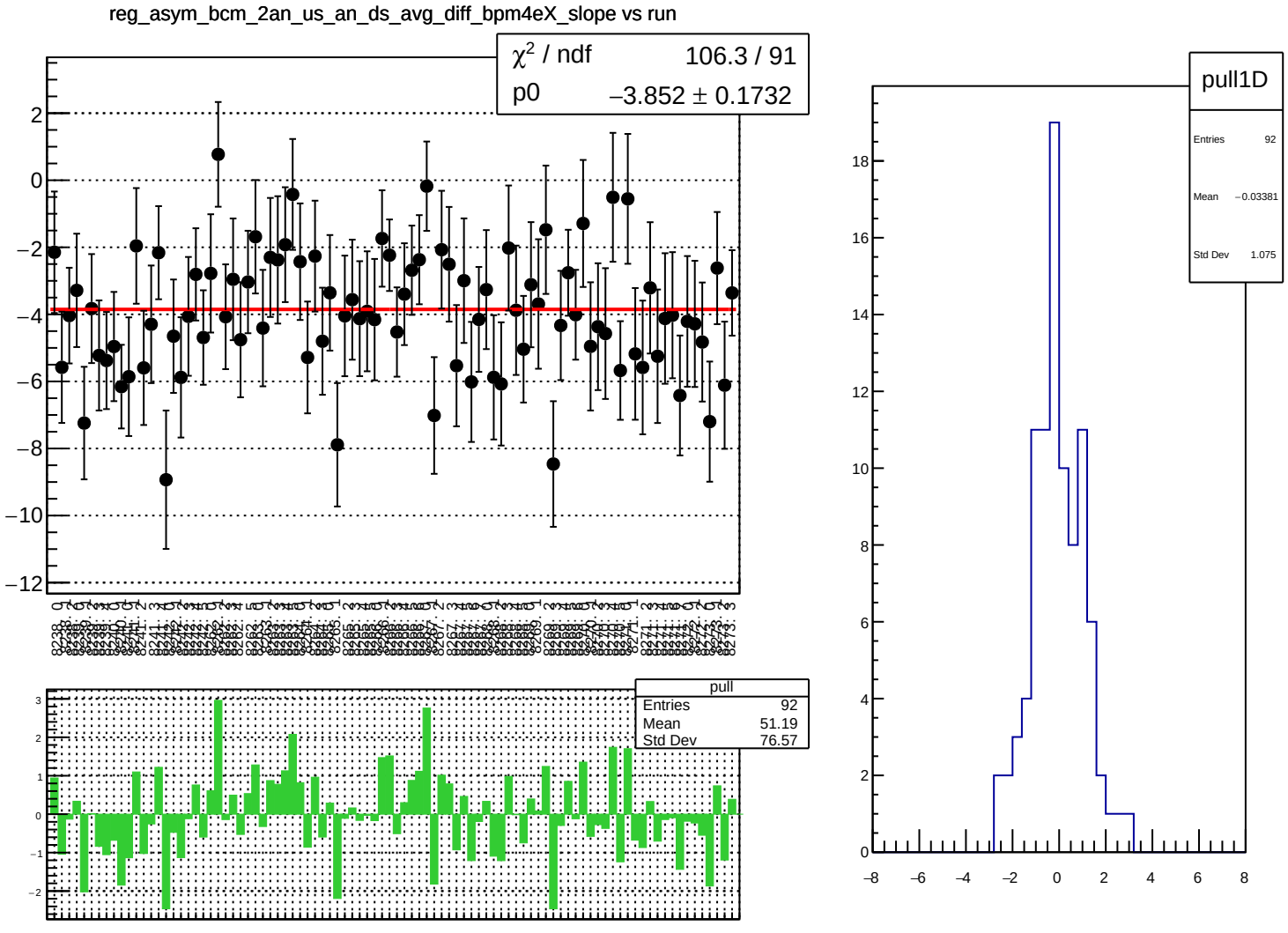

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 127.9 / 91
p0 −4.179 ± 0.3399
pull
Entries 92
Mean 200.5
Std Dev 0
pull1D
Entries 92
Mean −0.0286
Std Dev 1.179

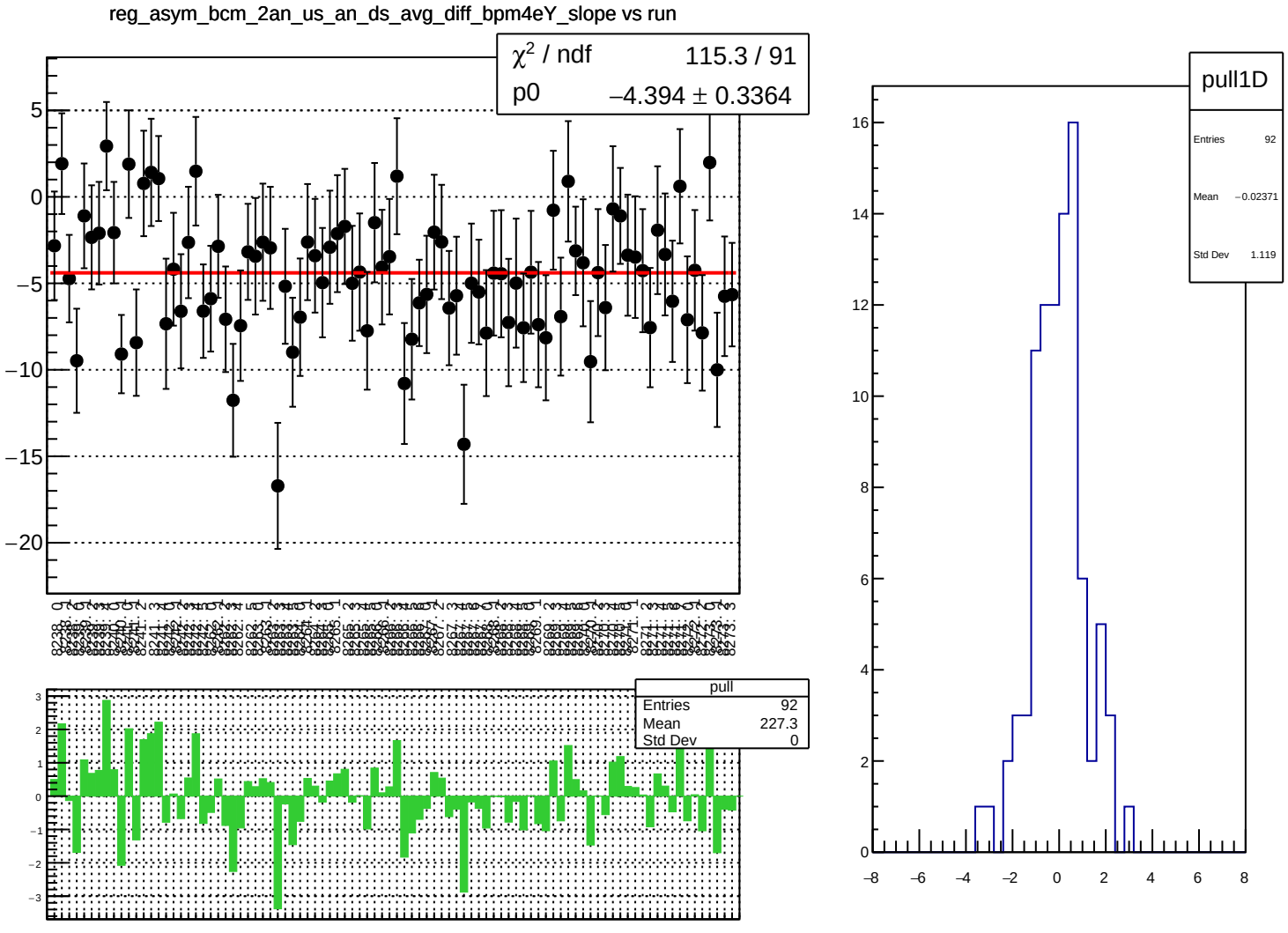

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 110.6 / 91
p0 −0.01474 ± 0.01836
pull
Entries 92
Mean −764.9
Std Dev 0
pull1D
Entries 92
Mean −0.01055
Std Dev 1.096

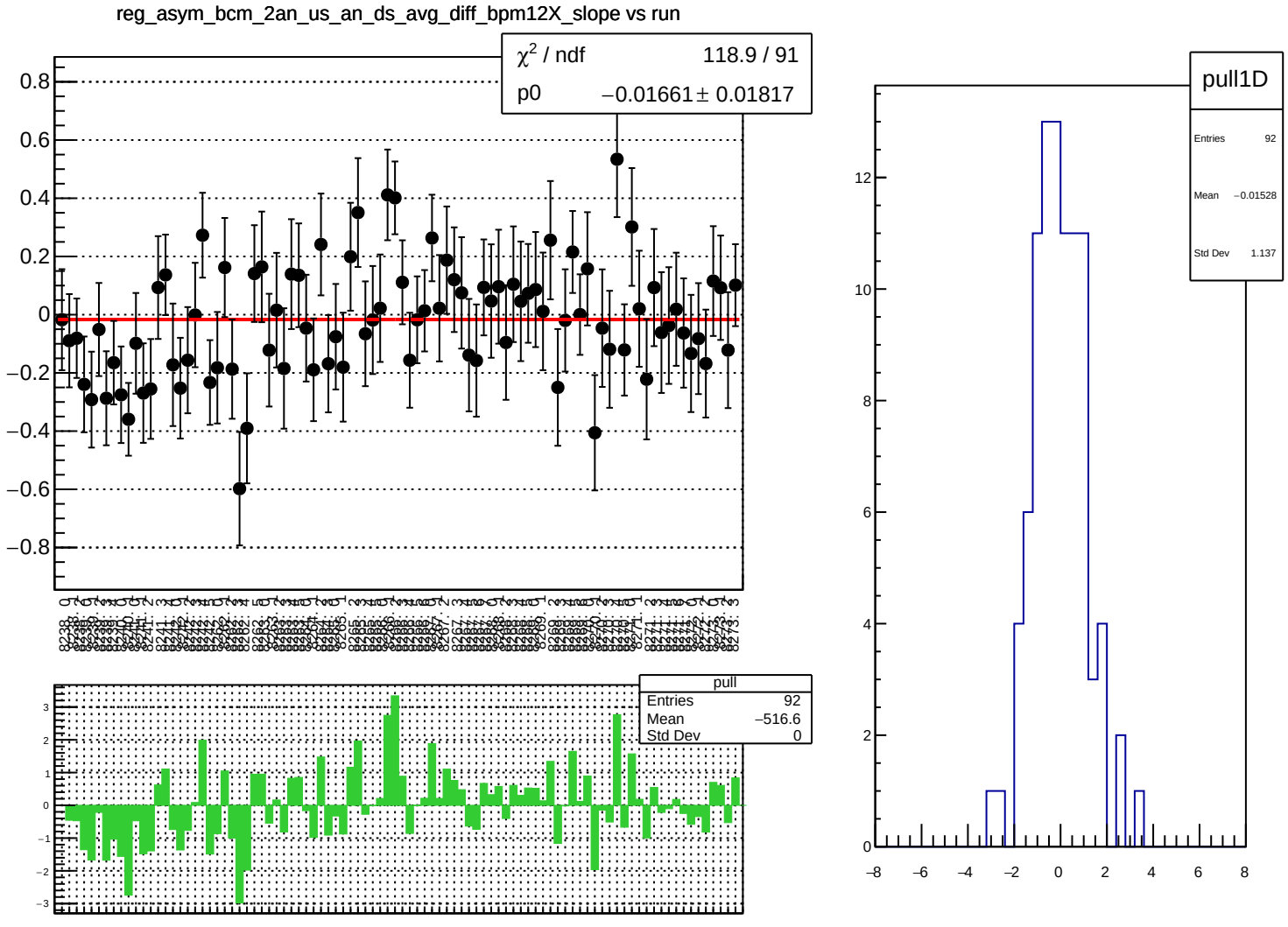

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 111.7 / 91
p0 3.756 ± 0.1523
pull
Entries 92
Mean 110.2
Std Dev 54.9

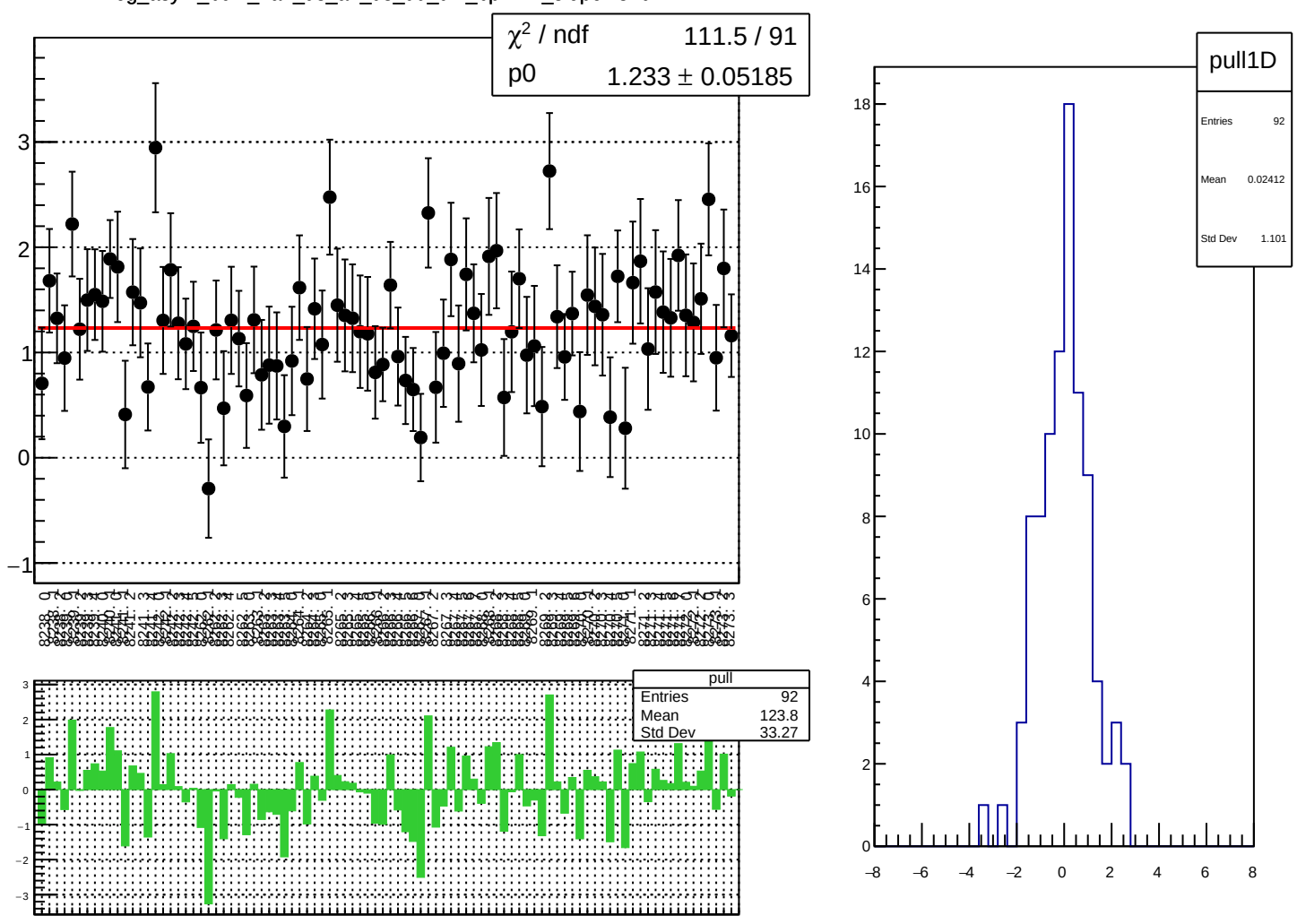

pull1D
Entries 92
Mean 0.02505
Std Dev 1.102

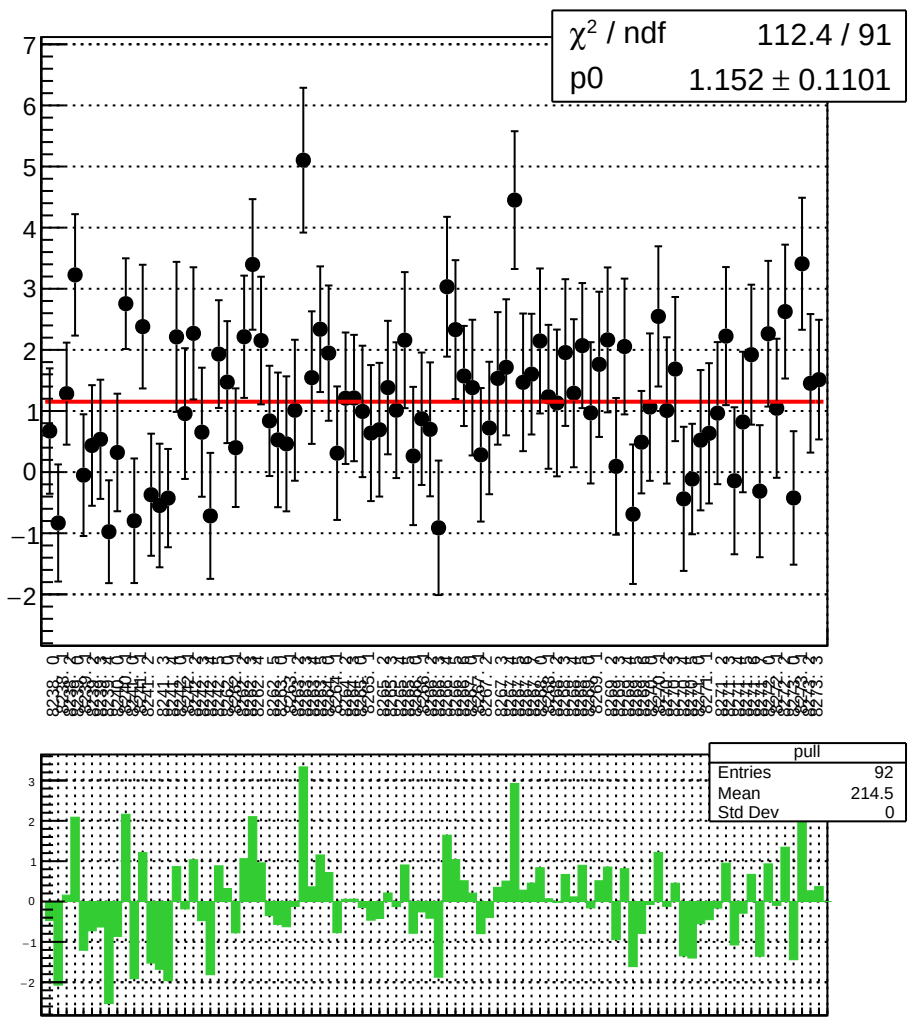

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 113.1 / 91
p0 3.394 ± 0.3233
pull
Entries 92
Mean 200.8
Std Dev 0
pull1D
Entries 92
Mean 0.0199
Std Dev 1.109

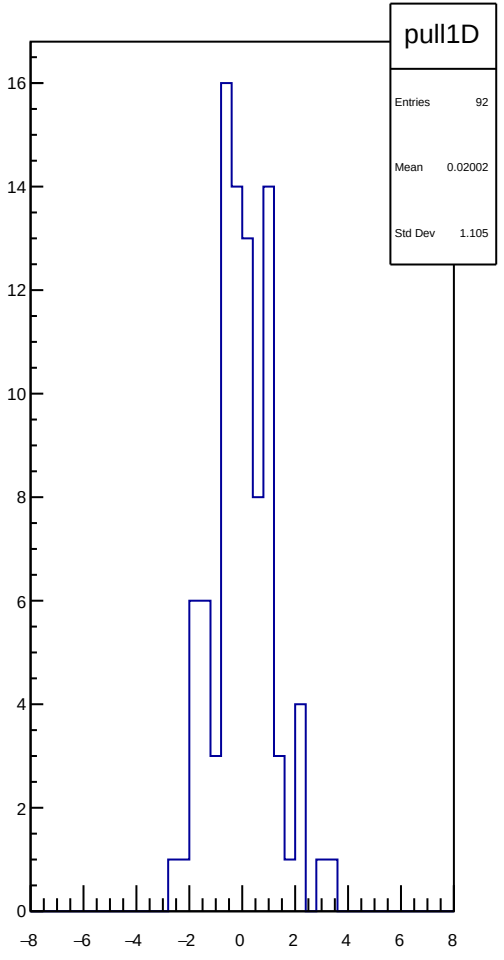

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 106.3 / 91
p0 −3.852 ± 0.1732
pull
Entries 92
Mean 51.19
Std Dev 76.57
pull1D
Entries 92
Mean −0.03381
Std Dev 1.075

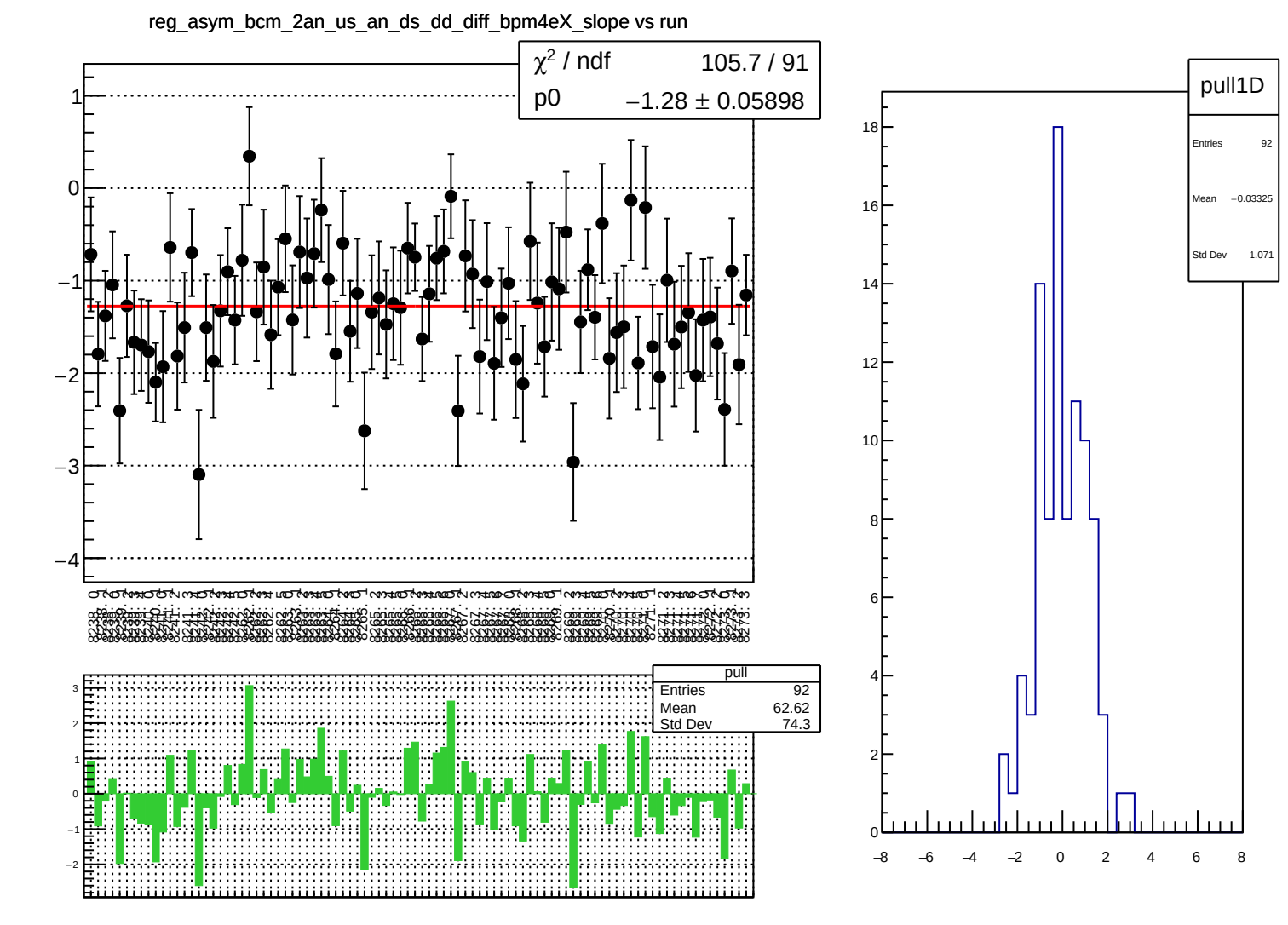

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 115.3 / 91
p0 −4.394 ± 0.3364
pull
Entries 92
Mean 227.3
Std Dev 0
pull1D
Entries 92
Mean −0.02371
Std Dev 1.119

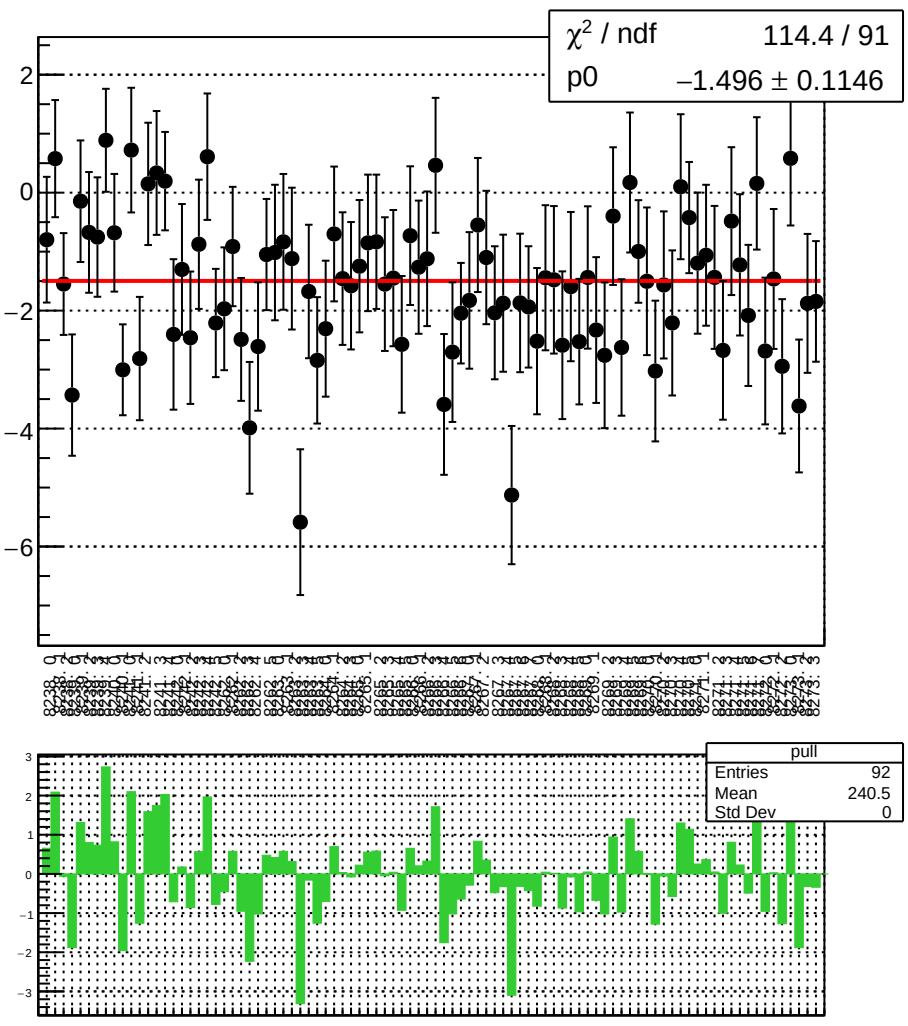

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 118.9 / 91
p0 −0.01661 ± 0.01817
pull
Entries 92
Mean −516.6
Std Dev 0
pull1D
Entries 92
Mean −0.01528
Std Dev 1.137

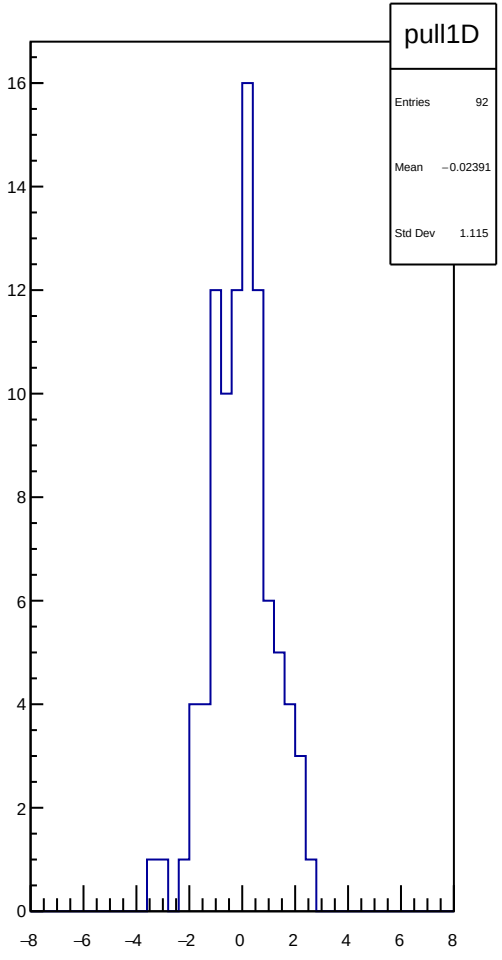

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 111.5 / 91
p0 1.233 ± 0.05185
pull
Entries 92
Mean 123.8
Std Dev 33.27
pull1D
Entries 92
Mean 0.02412
Std Dev 1.101

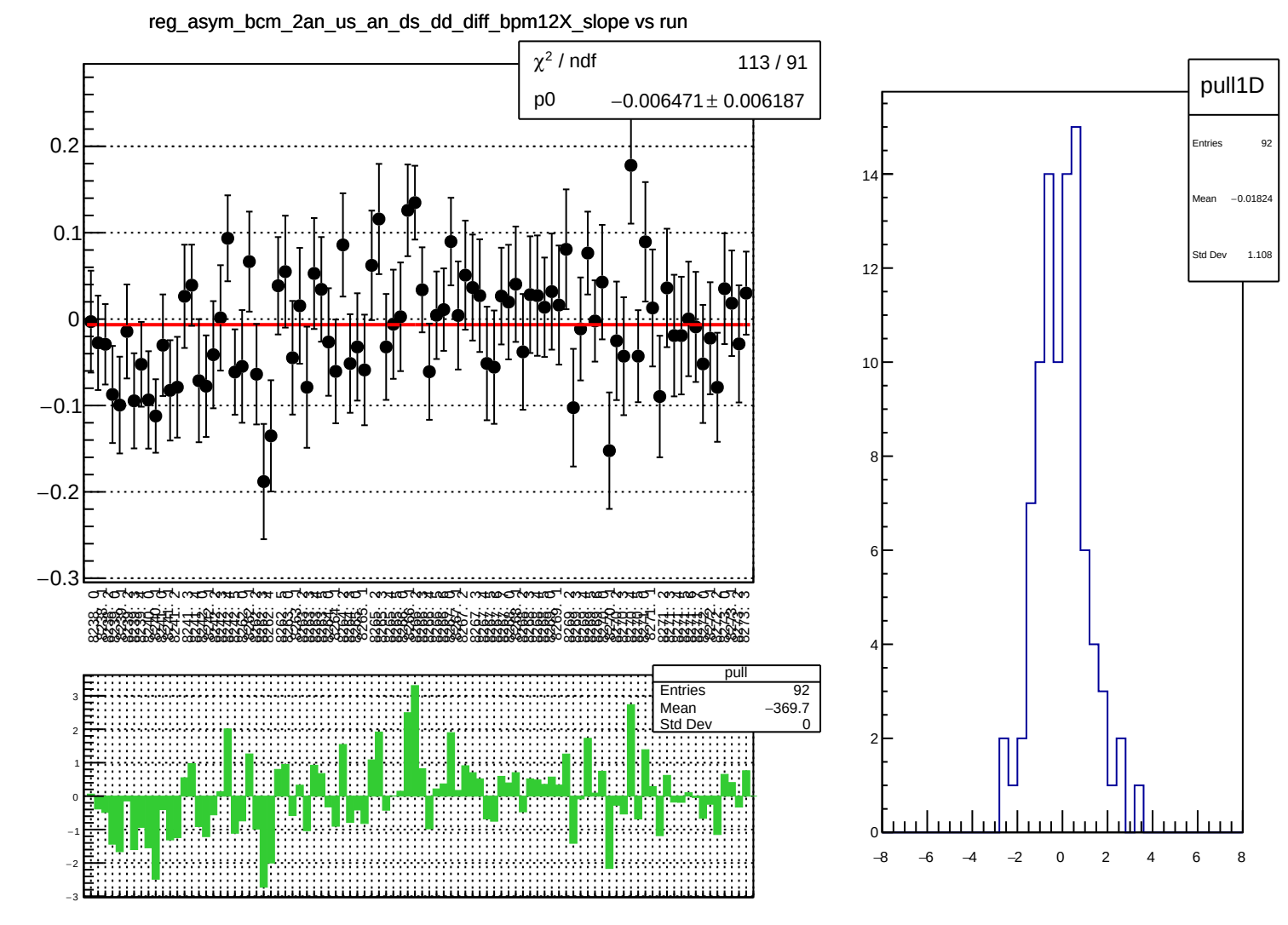

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 112.4 / 91
p0 1.152 ± 0.1101
pull
Entries 92
Mean 214.5
Std Dev 0

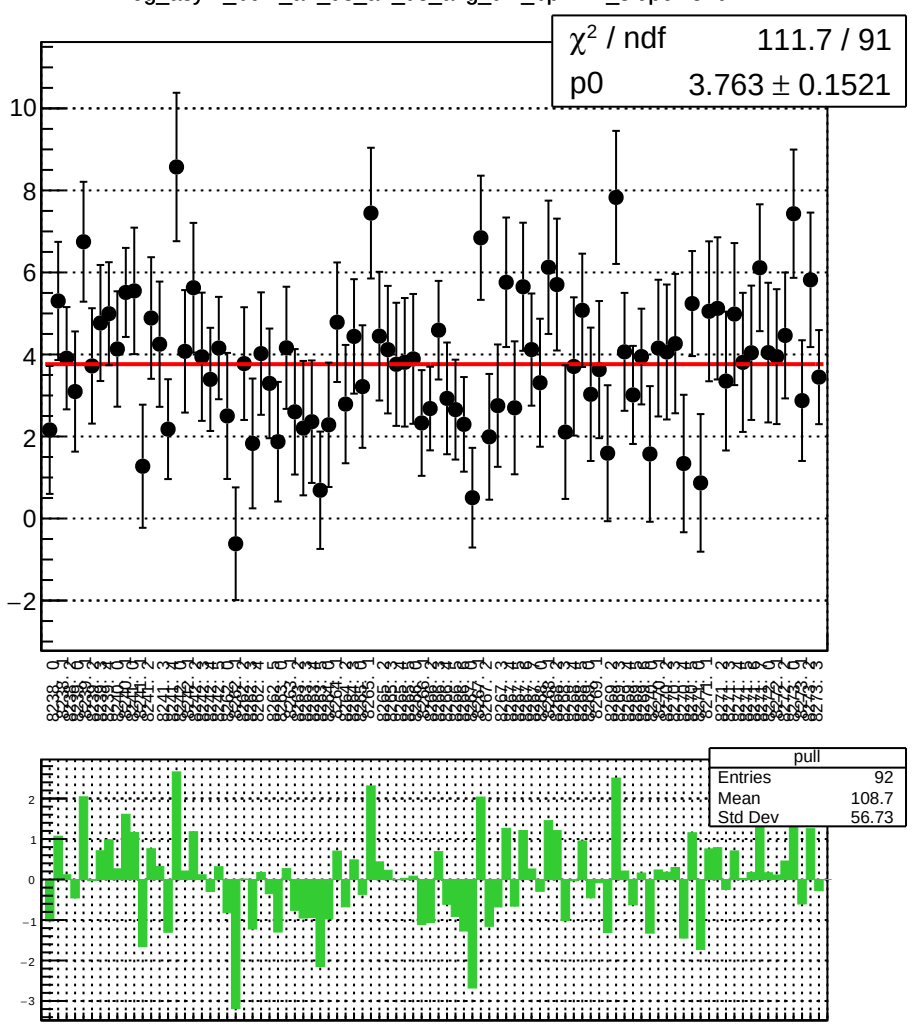

pull1D
Entries 92
Mean 0.02002
Std Dev 1.105

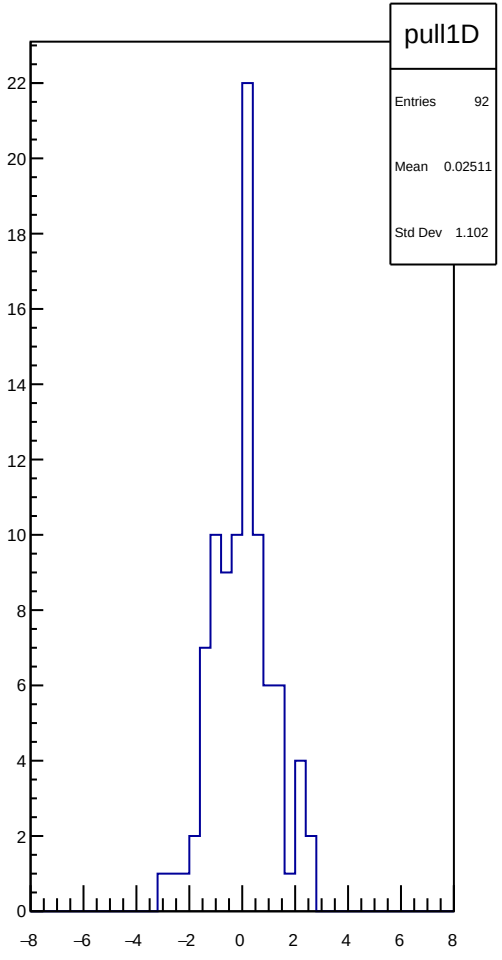

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 105.7 / 91
p0 −1.28 ± 0.05898
pull
Entries 92
Mean 62.62
Std Dev 74.3
pull1D
Entries 92
Mean −0.03325
Std Dev 1.071

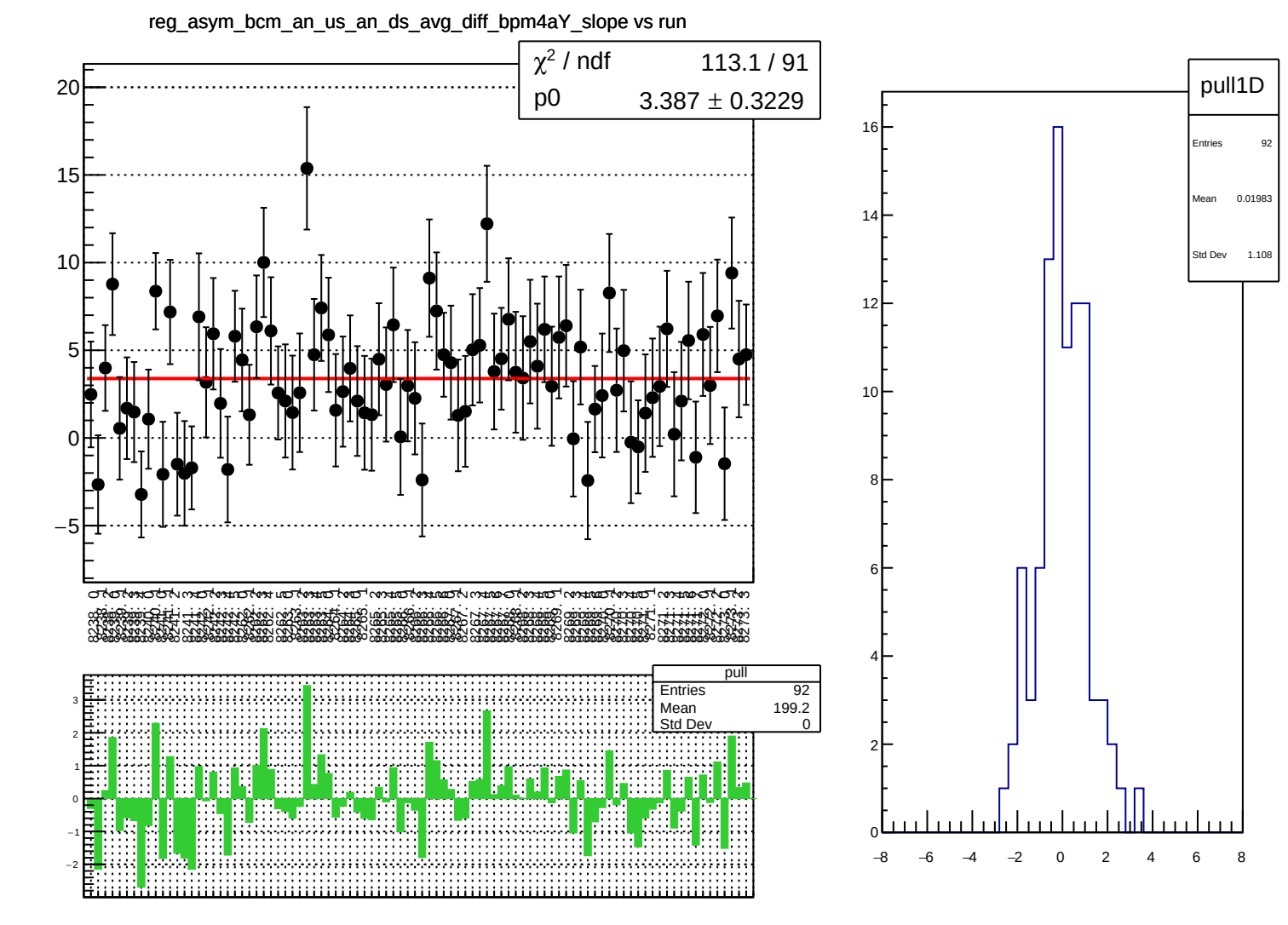

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 114.4 / 91
p0 −1.496 ± 0.1146
pull
Entries 92
Mean 240.5
Std Dev 0

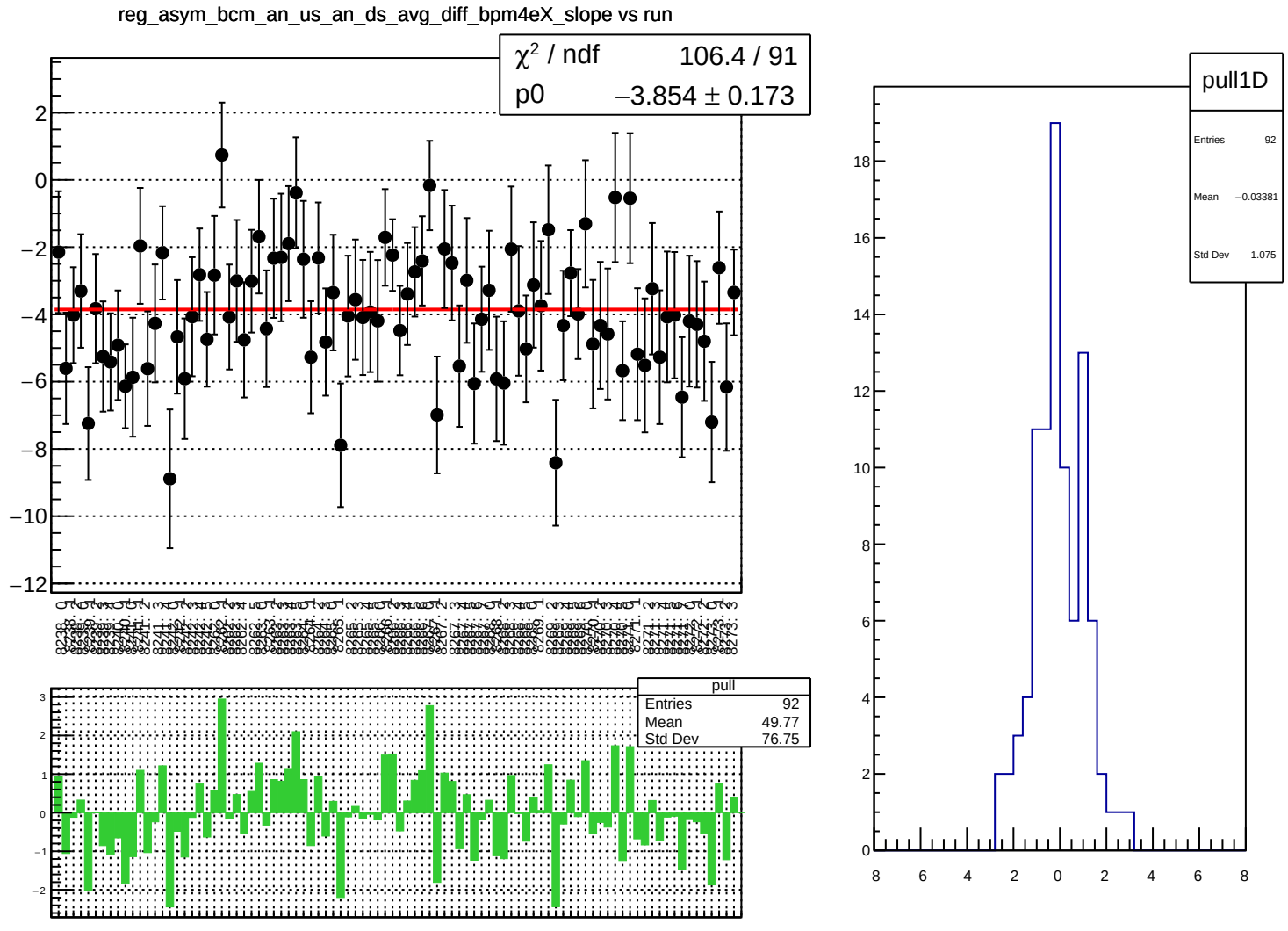

pull1D
Entries 92
Mean −0.02391
Std Dev 1.115

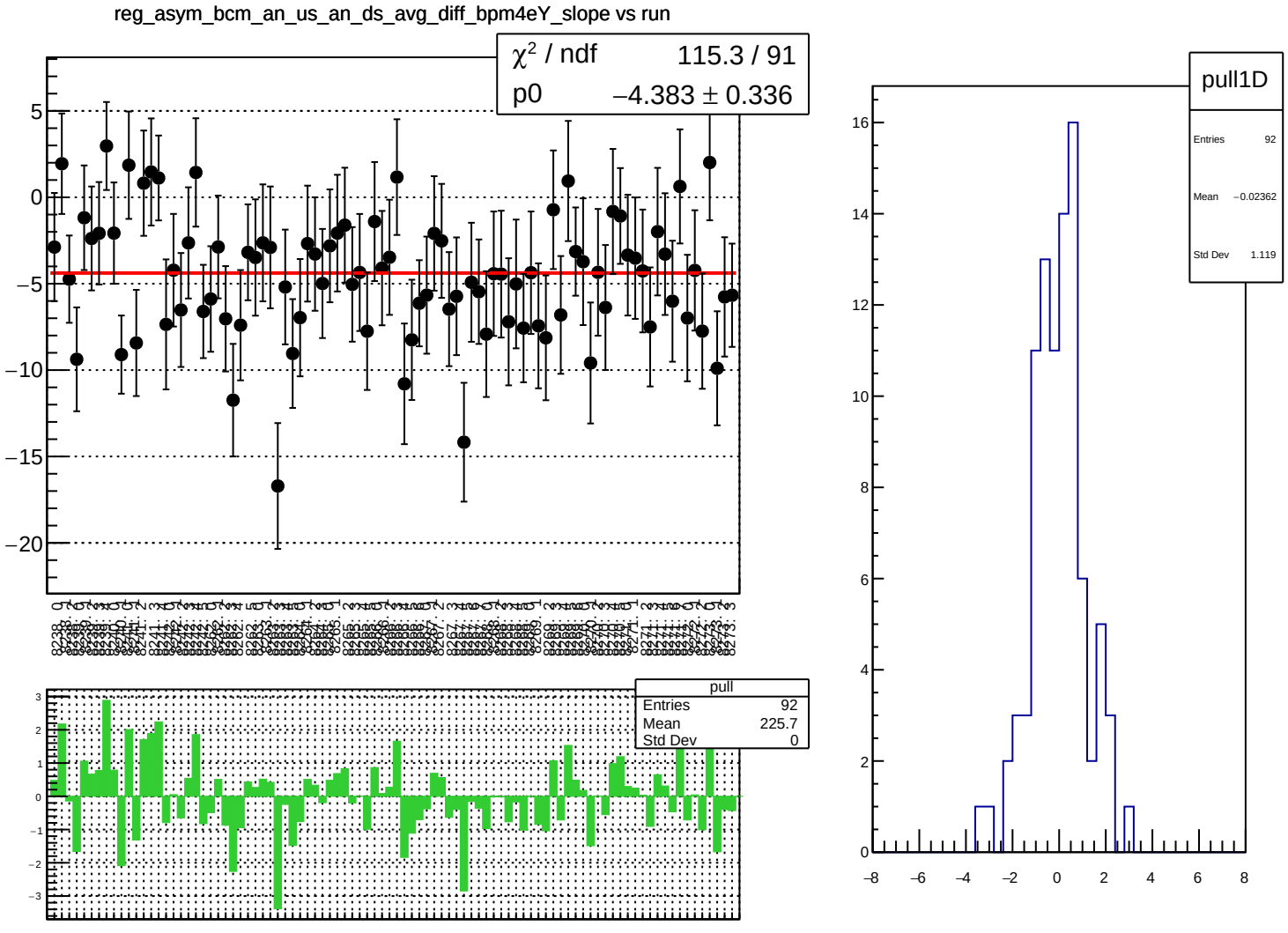

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 113 / 91
p0 −0.006471 ± 0.006187
pull
Entries 92
Mean −369.7
Std Dev 0
pull1D
Entries 92
Mean −0.01824
Std Dev 1.108

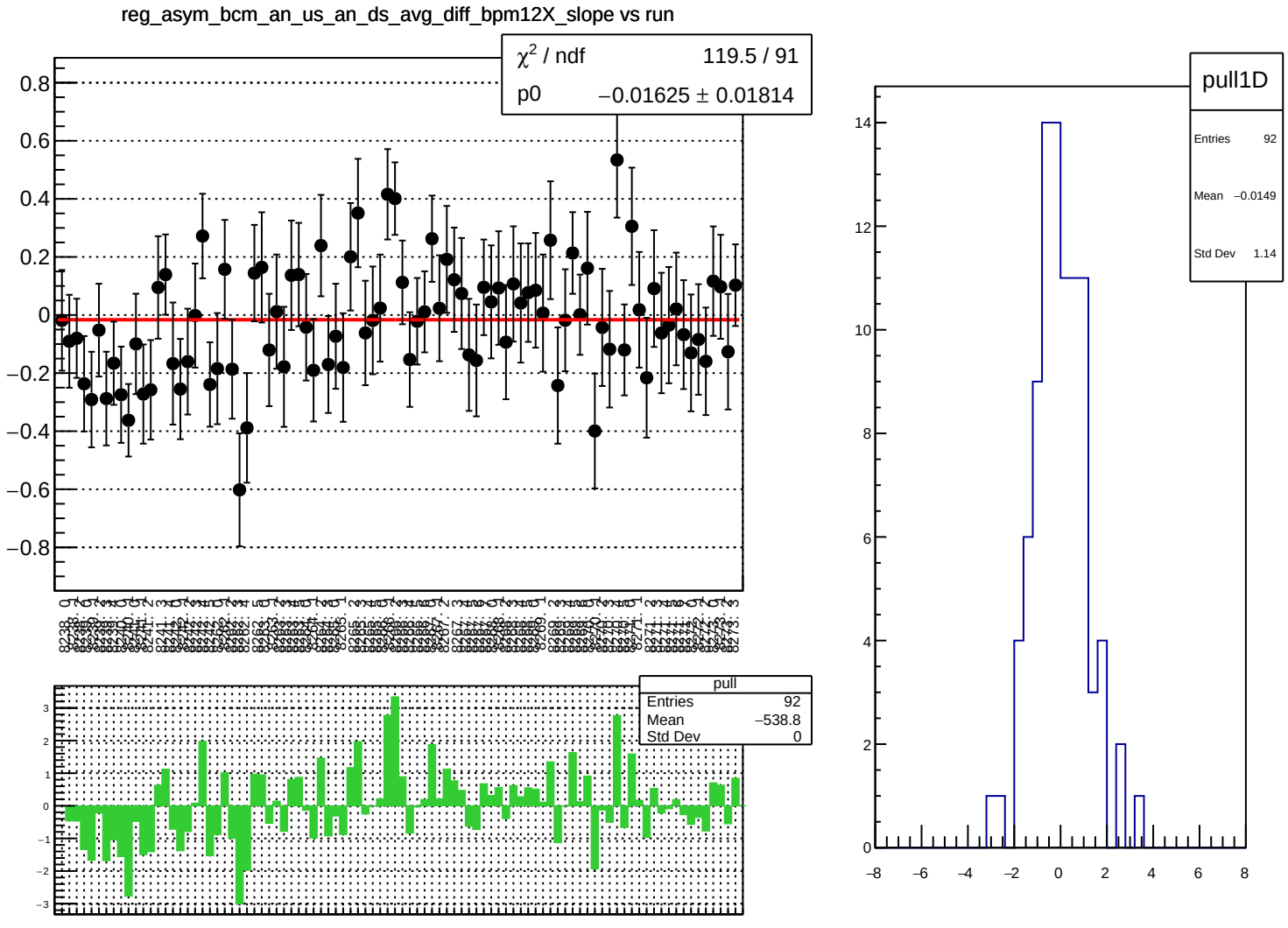

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 111.7 / 91
p0 3.763 ± 0.1521
pull
Entries 92
Mean 108.7
Std Dev 56.73

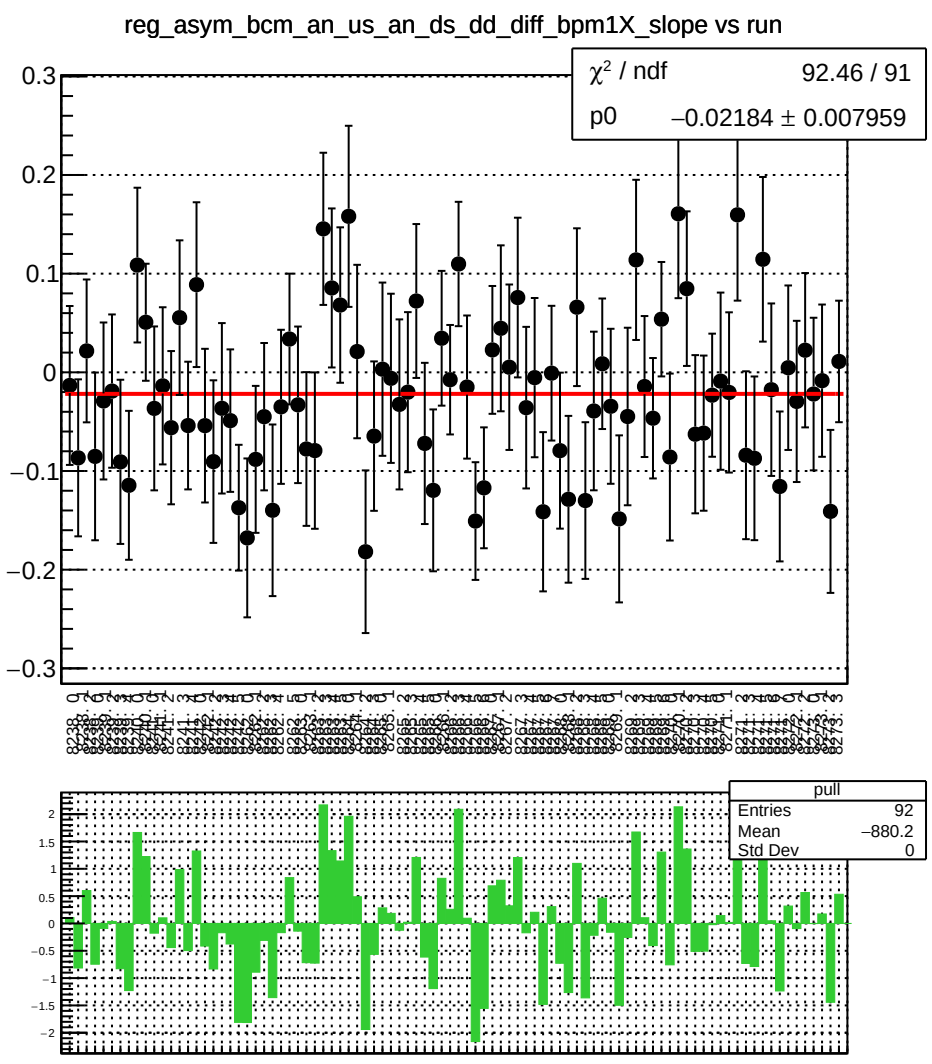

pull1D
Entries 92
Mean 0.02511
Std Dev 1.102

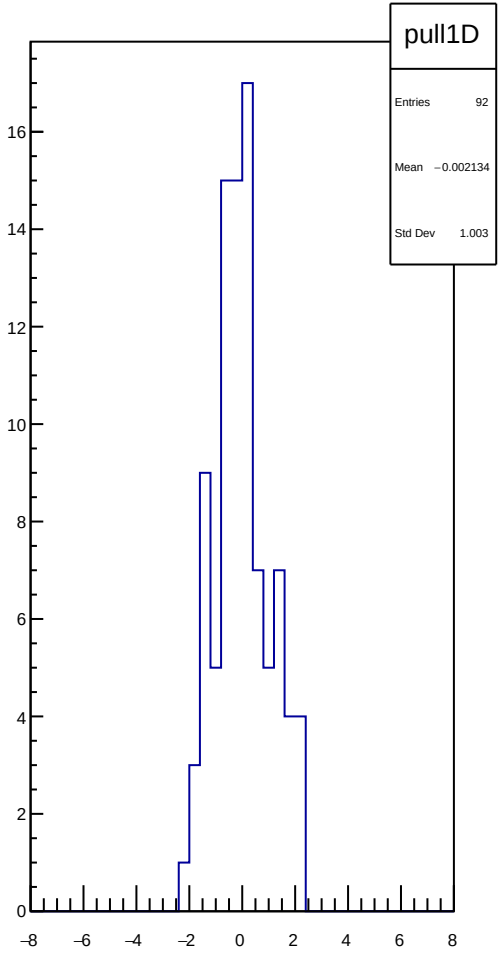

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 113.1 / 91
p0 3.387 ± 0.3229
pull
Entries 92
Mean 199.2
Std Dev 0
pull1D
Entries 92
Mean 0.01983
Std Dev 1.108

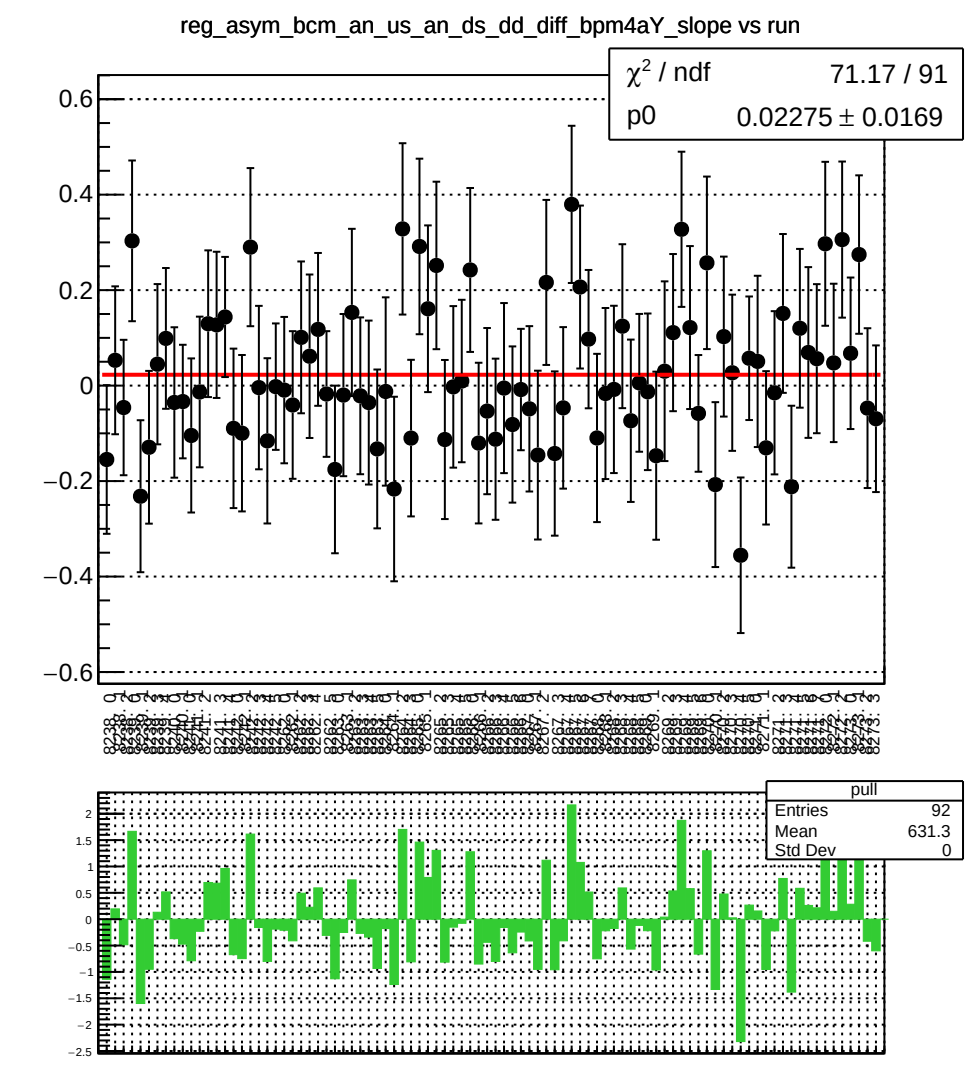

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 106.4 / 91
p0 −3.854 ± 0.173
pull
Entries 92
Mean 49.77
Std Dev 76.75
pull1D
Entries 92
Mean −0.03381
Std Dev 1.075

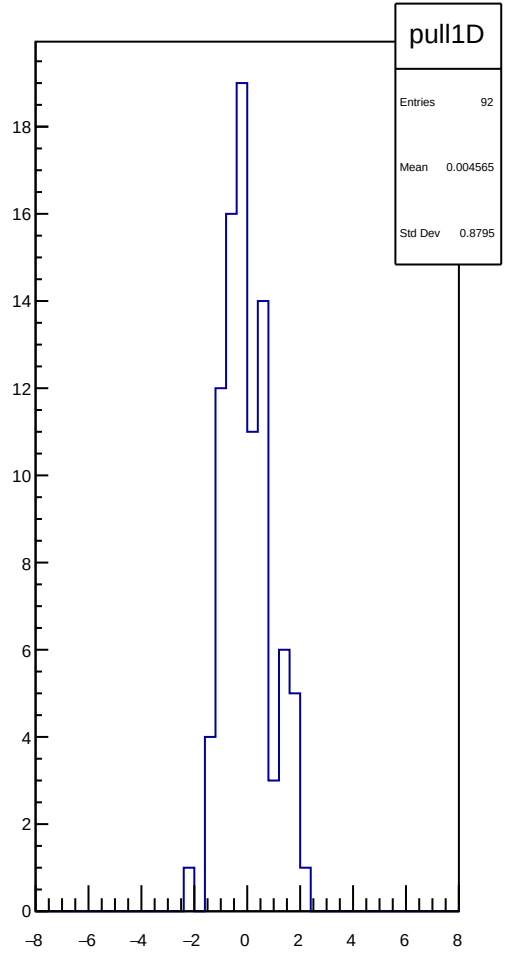

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 115.3 / 91
p0 −4.383 ± 0.336
pull
Entries 92
Mean 225.7
Std Dev 0
pull1D
Entries 92
Mean −0.02362
Std Dev 1.119

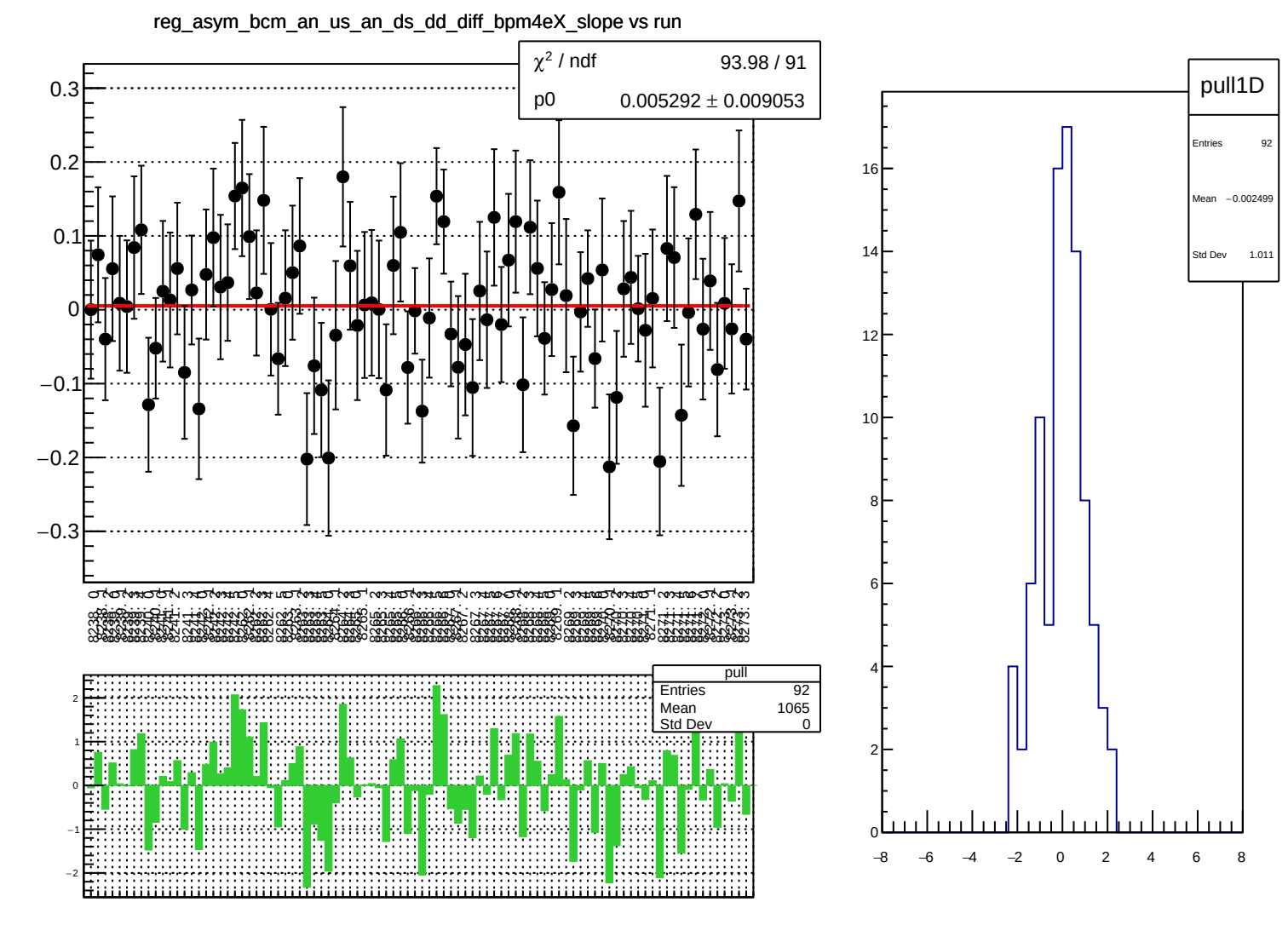

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 119.5 / 91
p0 −0.01625 ± 0.01814
pull
Entries 92
Mean −538.8
Std Dev 0
pull1D
Entries 92
Mean −0.0149
Std Dev 1.14

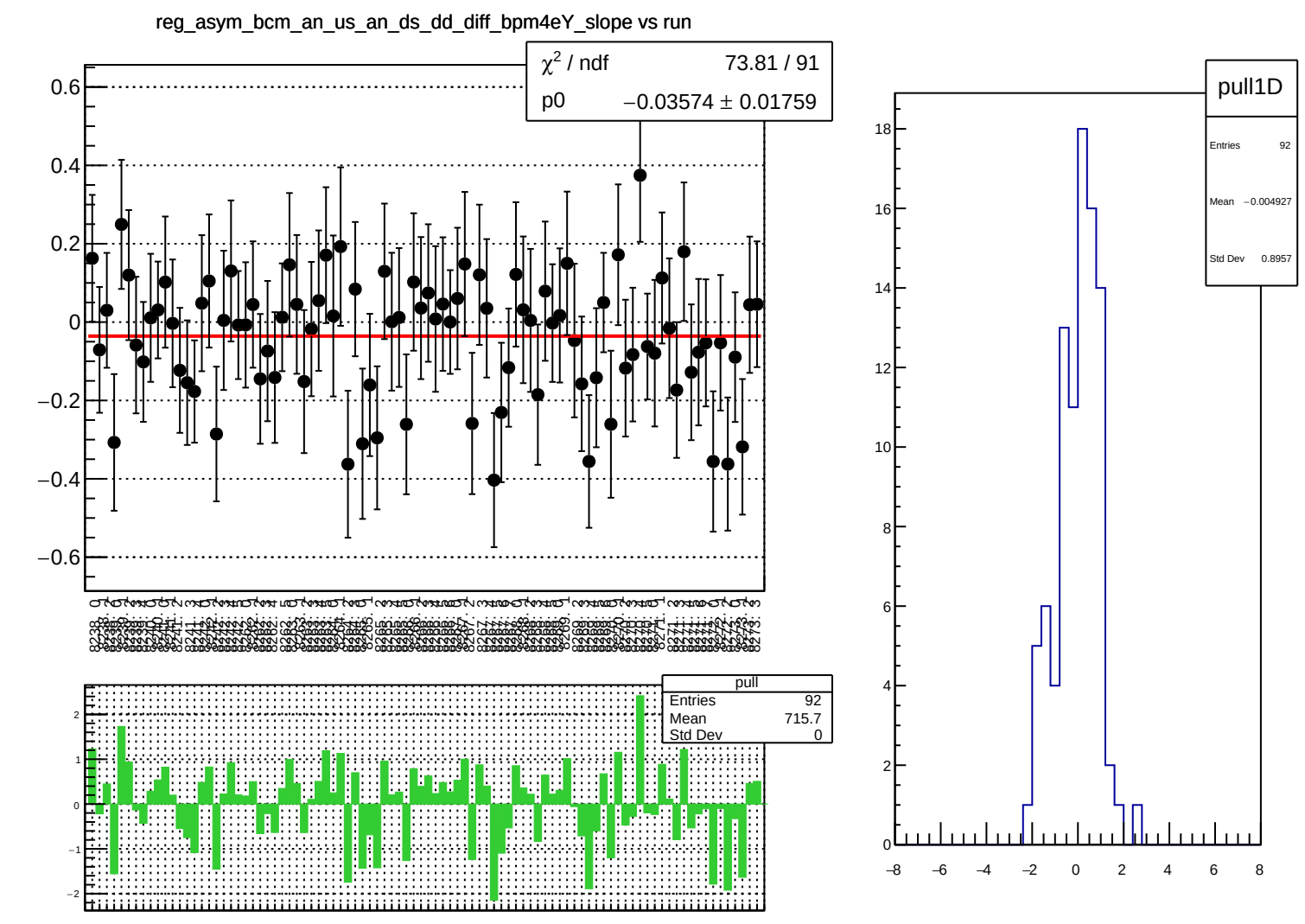

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 92.46 / 91
p0 −0.02184 ± 0.007959
pull
Entries 92
Mean −880.2
Std Dev 0

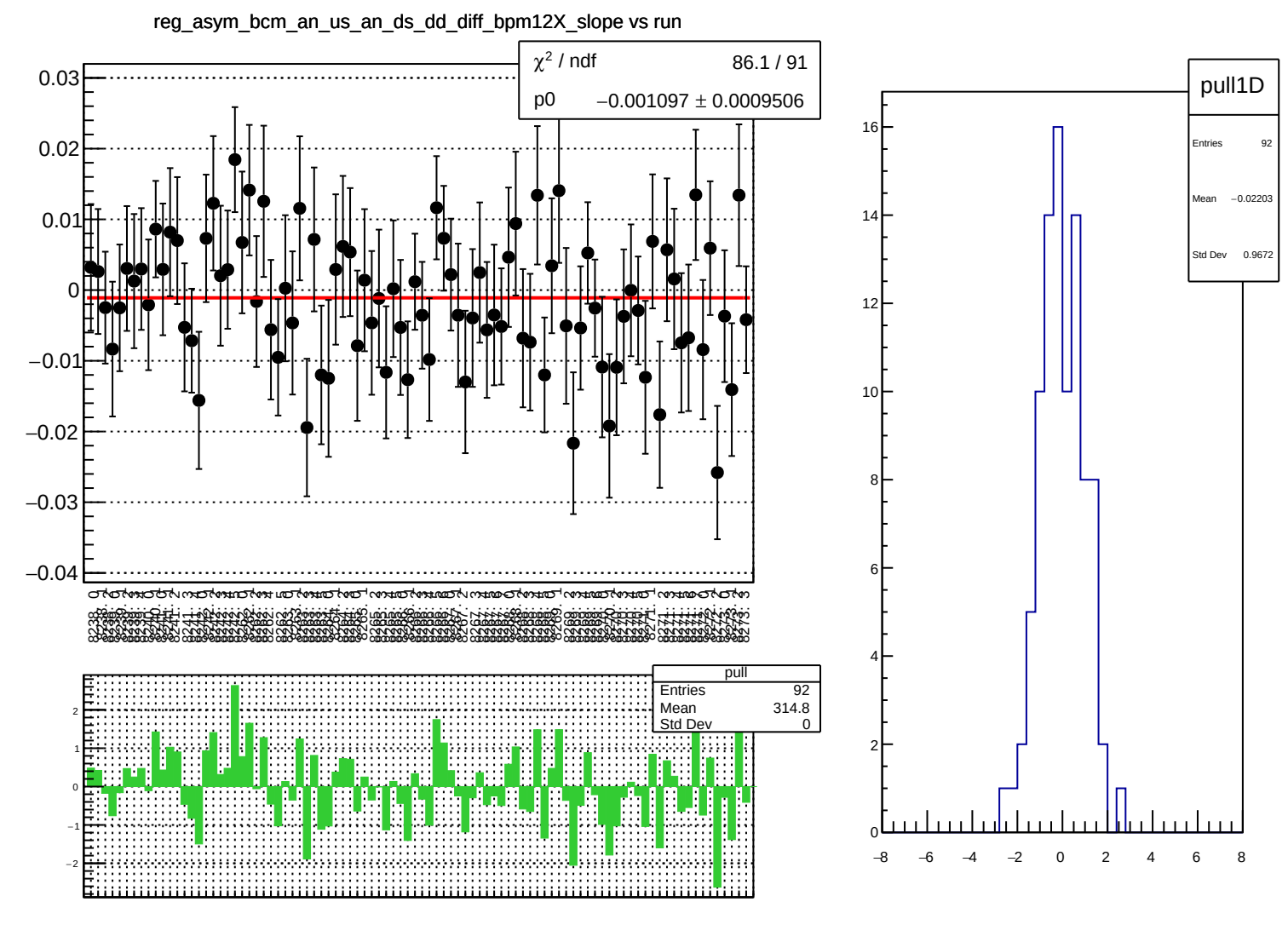

pull1D
Entries 92
Mean −0.002134
Std Dev 1.003

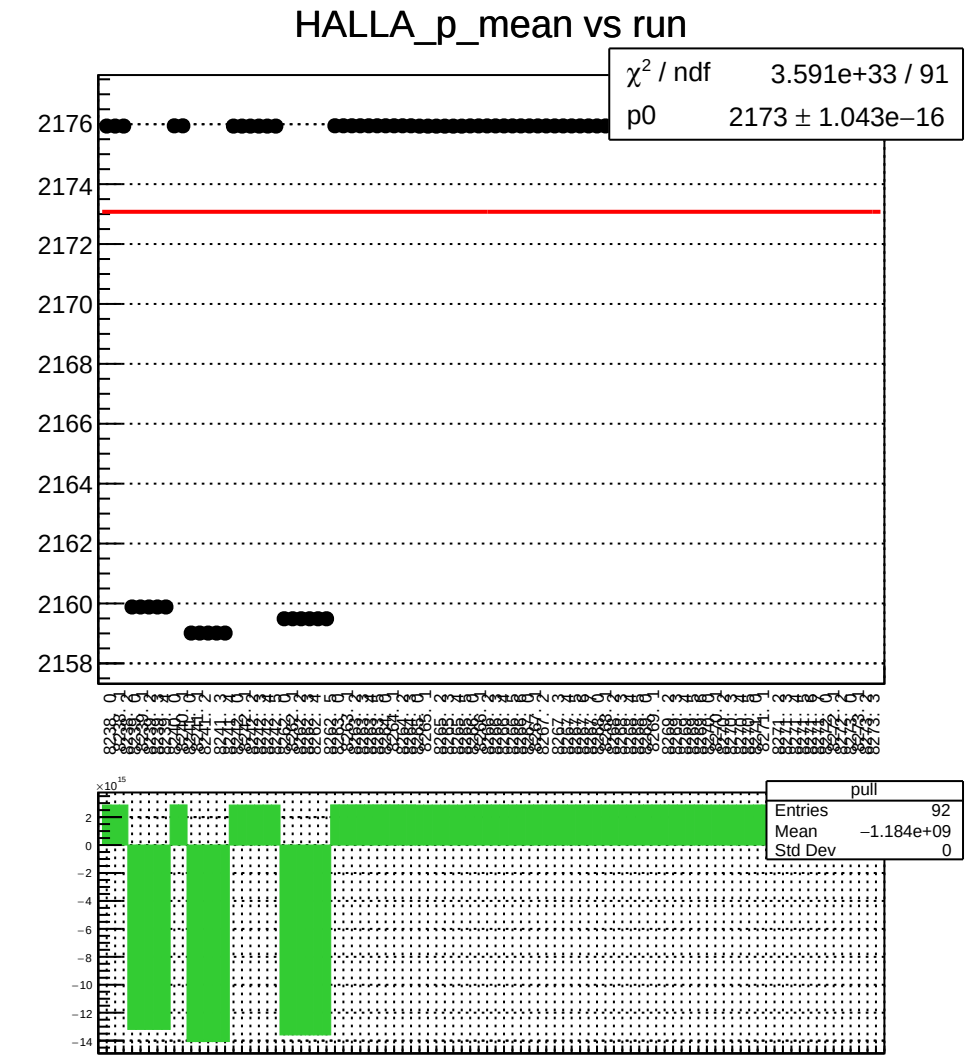

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 71.17 / 91
p0 0.02275 ± 0.0169
pull
Entries 92
Mean 631.3
Std Dev 0

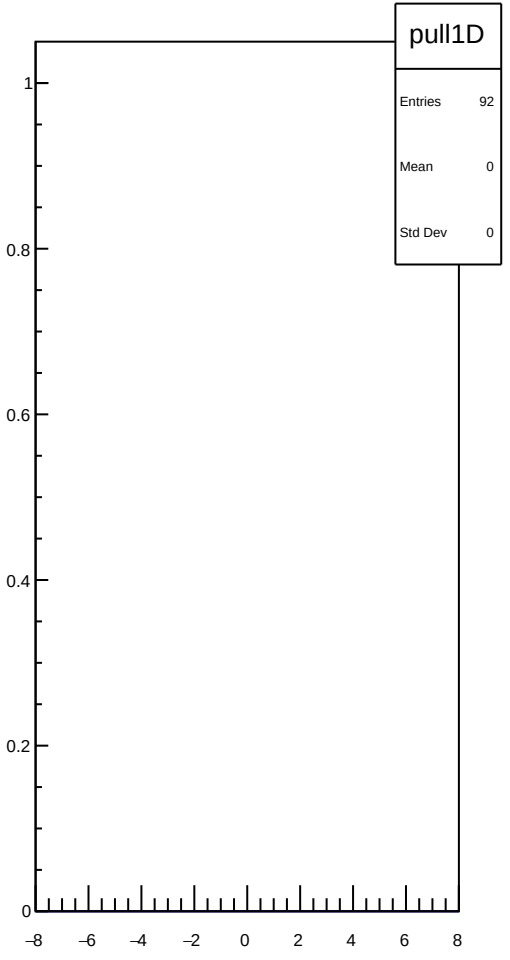

pull1D
Entries 92
Mean 0.004565
Std Dev 0.8795

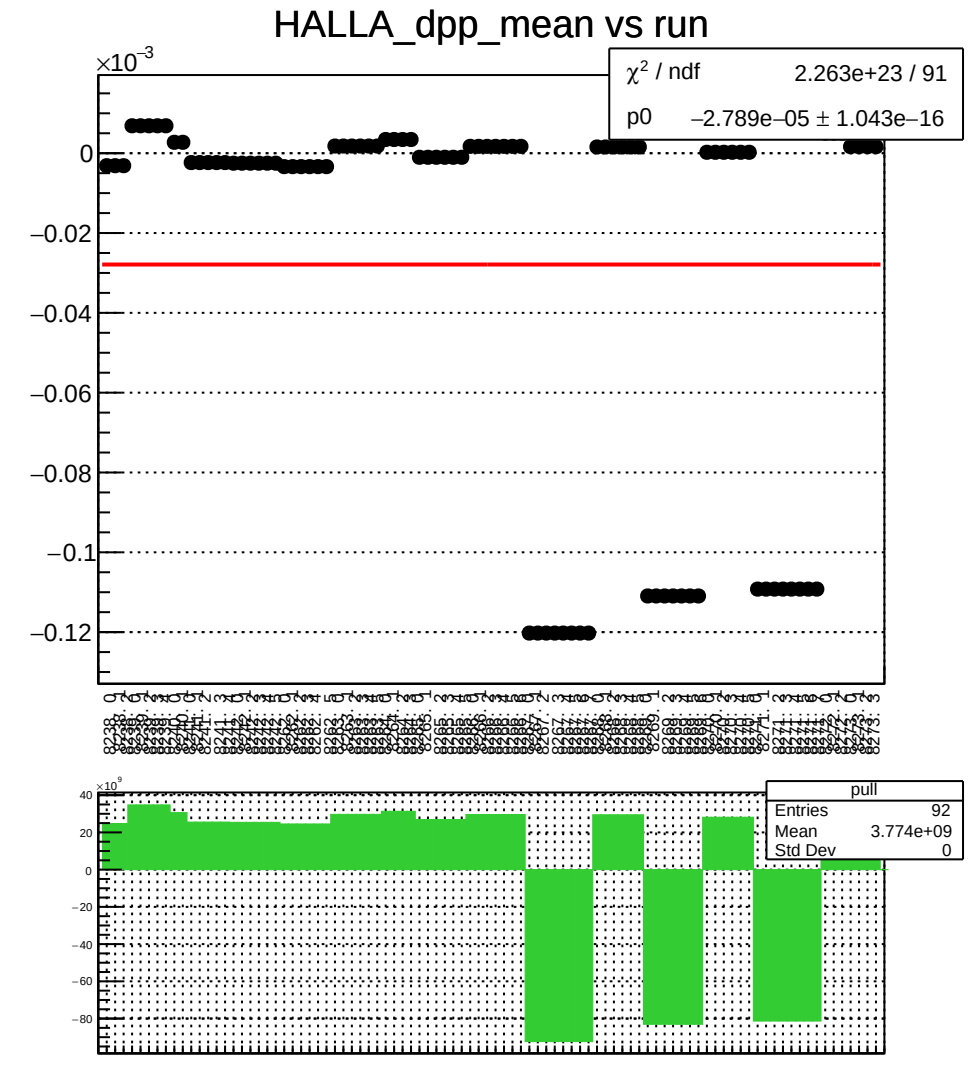

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 93.98 / 91
p0 0.005292 ± 0.009053
pull
Entries 92
Mean 1065
Std Dev 0
pull1D
Entries 92
Mean −0.002499
Std Dev 1.011

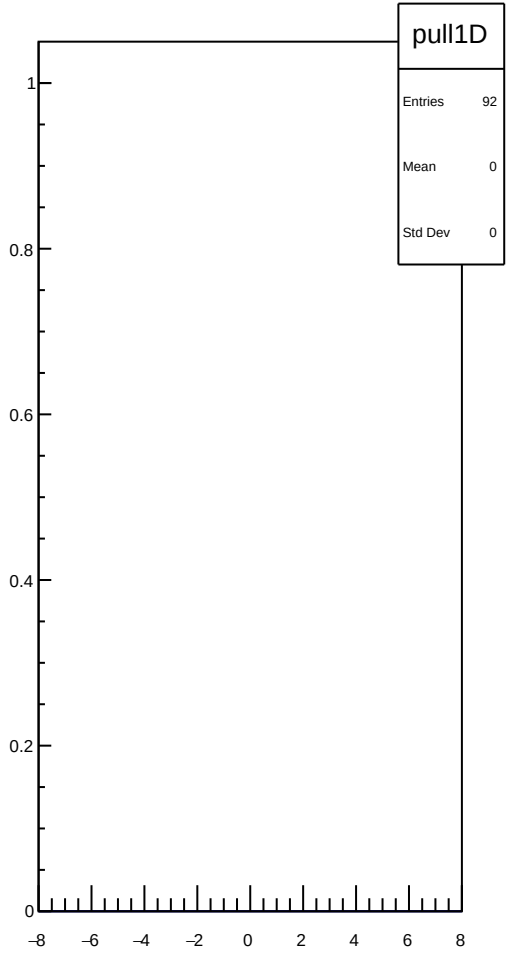

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.81 / 91
p0 −0.03574 ± 0.01759
pull
Entries 92
Mean 715.7
Std Dev 0
pull1D
Entries 92
Mean −0.004927
Std Dev 0.8957

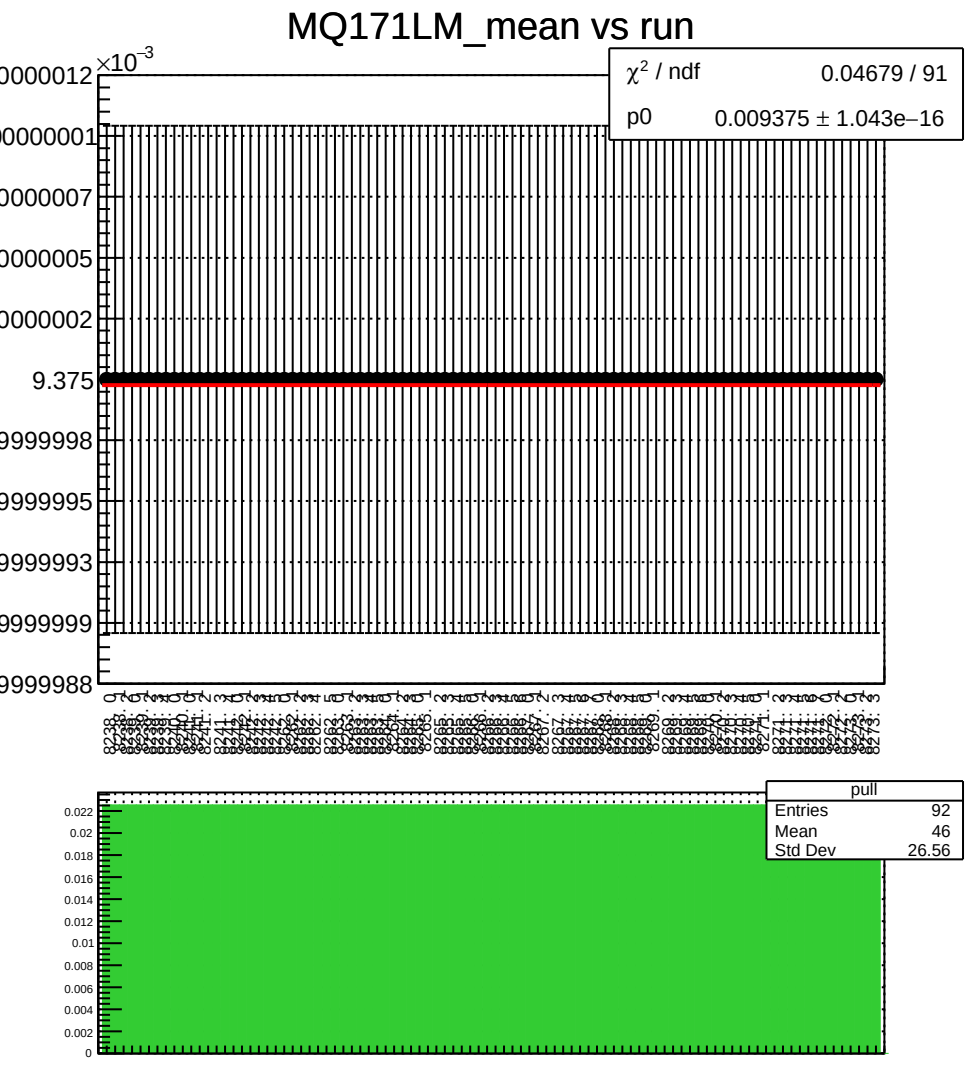

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 86.1 / 91
p0 −0.001097 ± 0.0009506
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 92
Mean 314.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.02203
Std Dev 0.9672
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

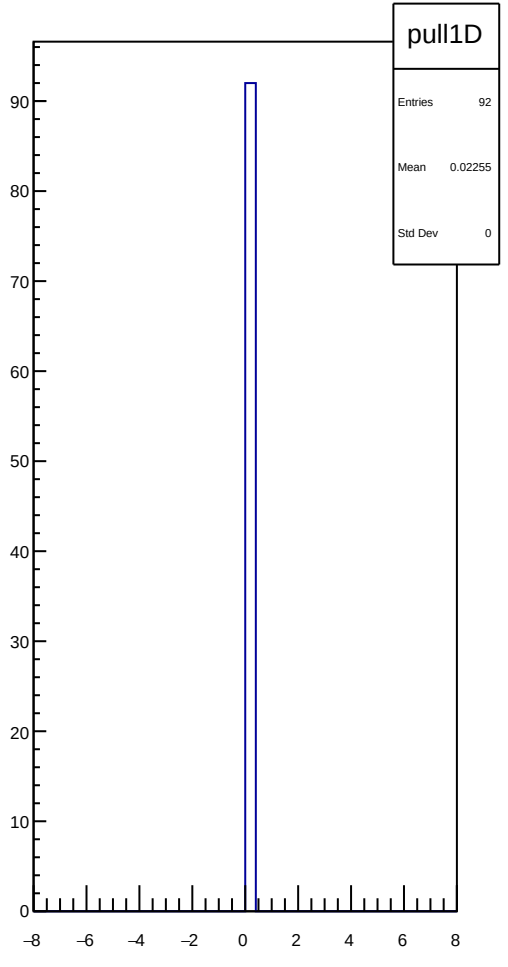

HALLA_p_mean vs run
χ² / ndf 3.591e+33 / 91
p0 2173 ± 1.043e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 92
Mean −1.184e+09
Std Dev 0
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14

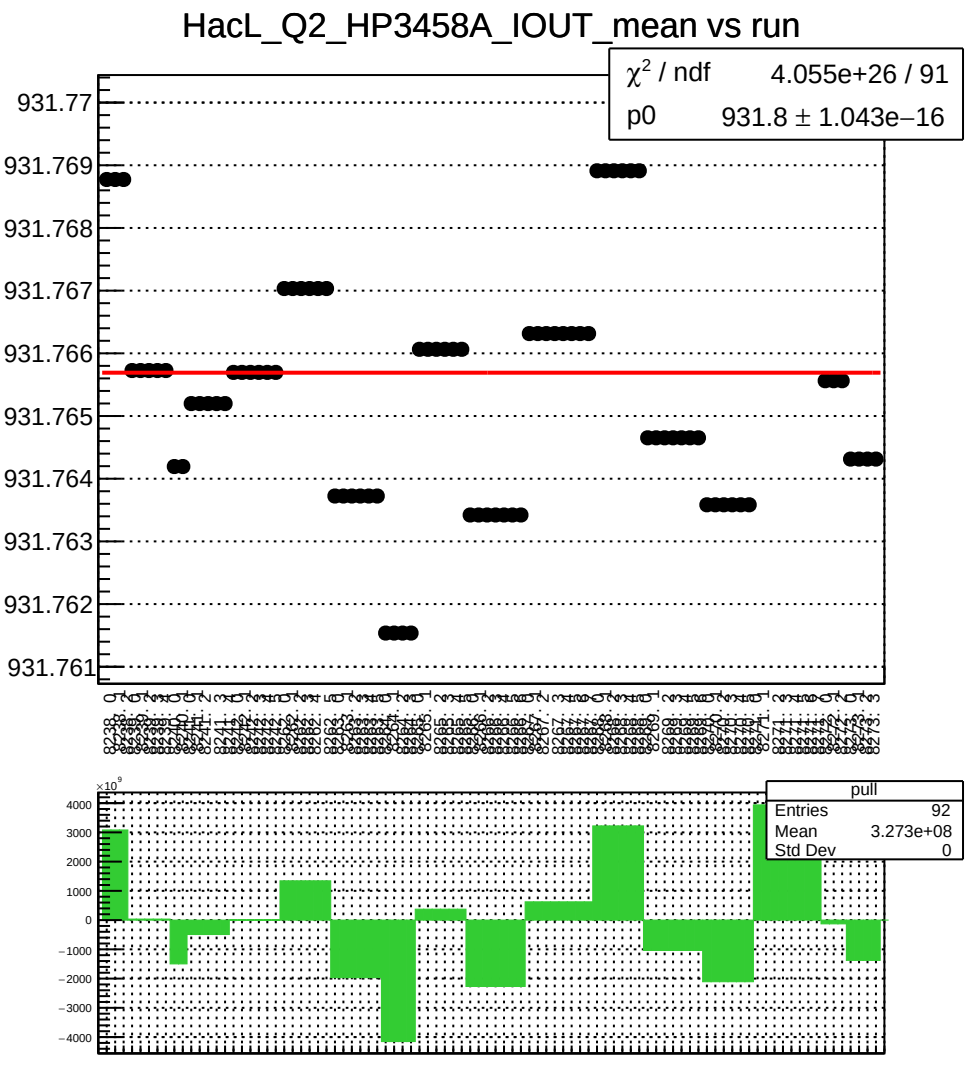

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

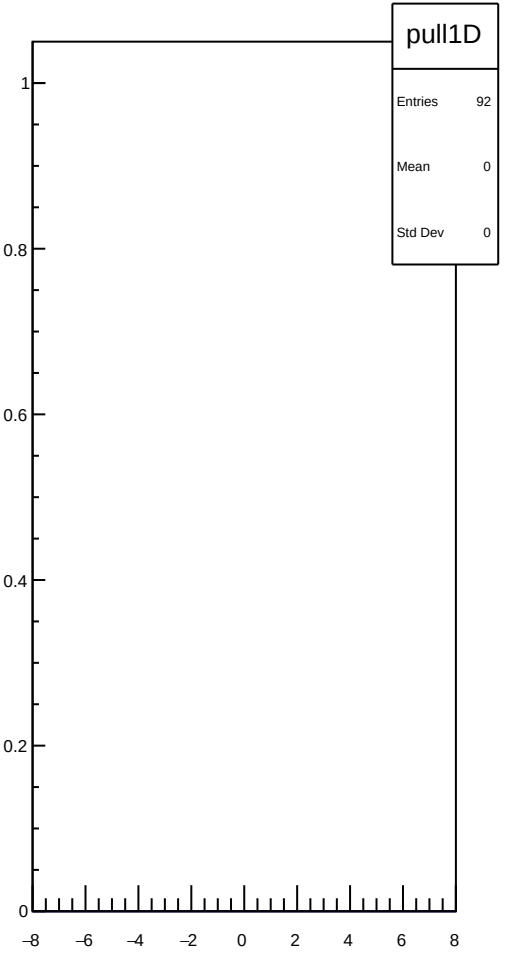

HALLA_dpp_mean vs run
χ² / ndf 2.263e+23 / 91
p0 −2.789e−05 ± 1.043e−16
×10⁻³
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 92
Mean 3.774e+09
Std Dev 0
×10⁹
40
20
0
−20
−40
−60
−80

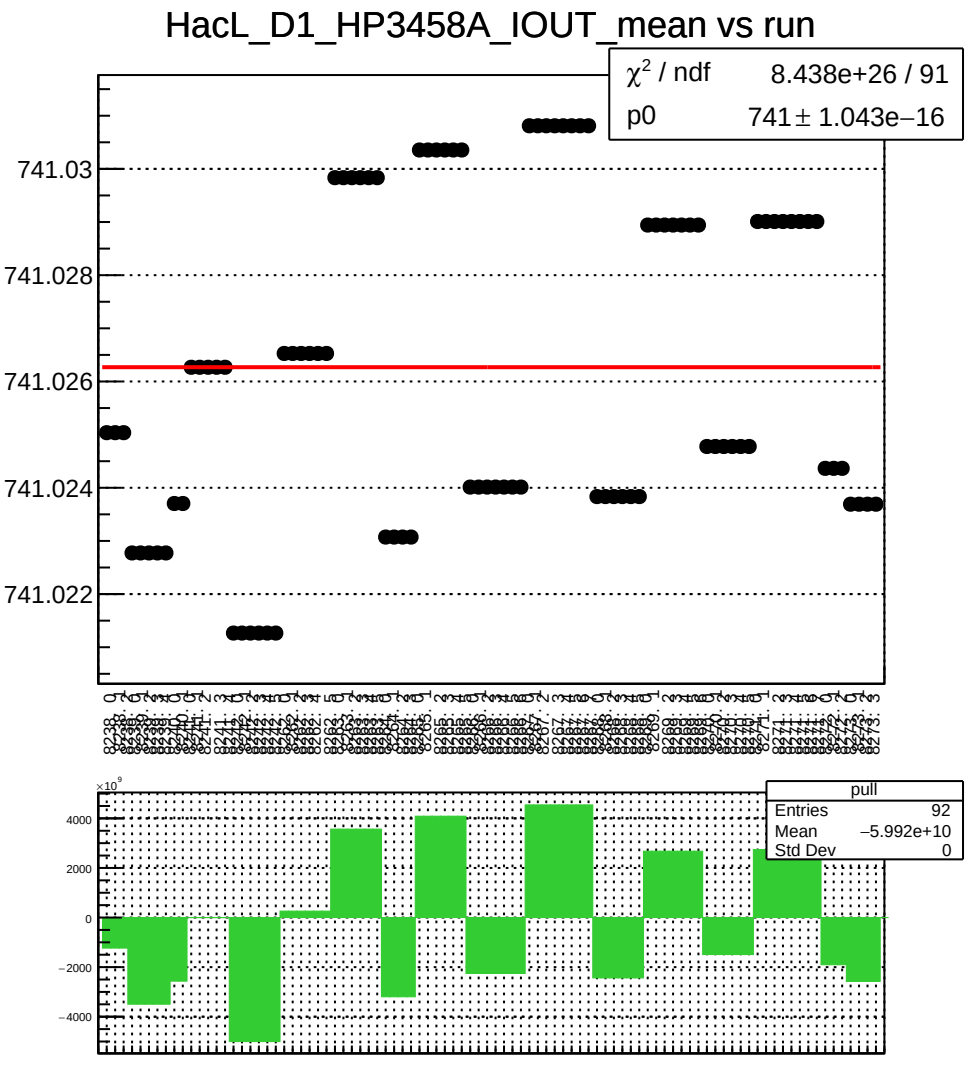

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

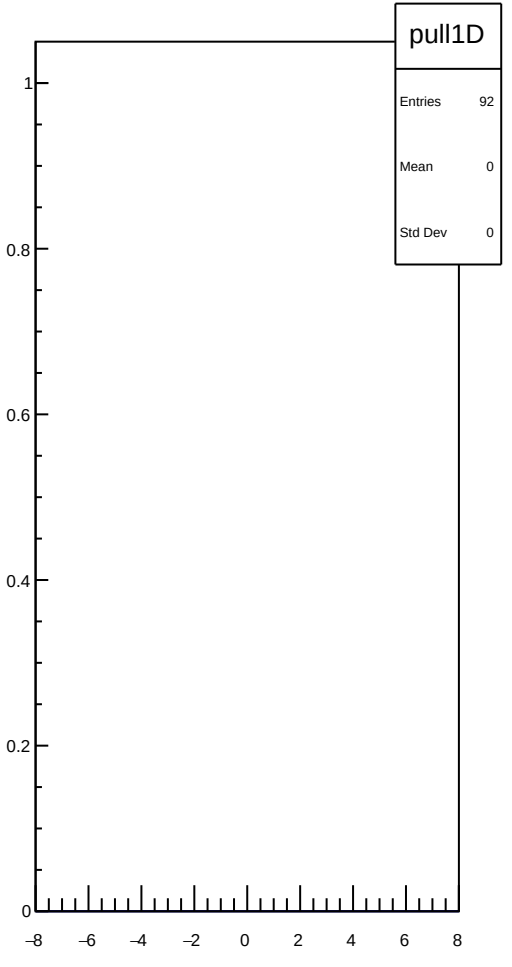

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.04679 / 91
p0 0.009375 ± 1.043e−16
pull
Entries 92
Mean 46
Std Dev 26.56

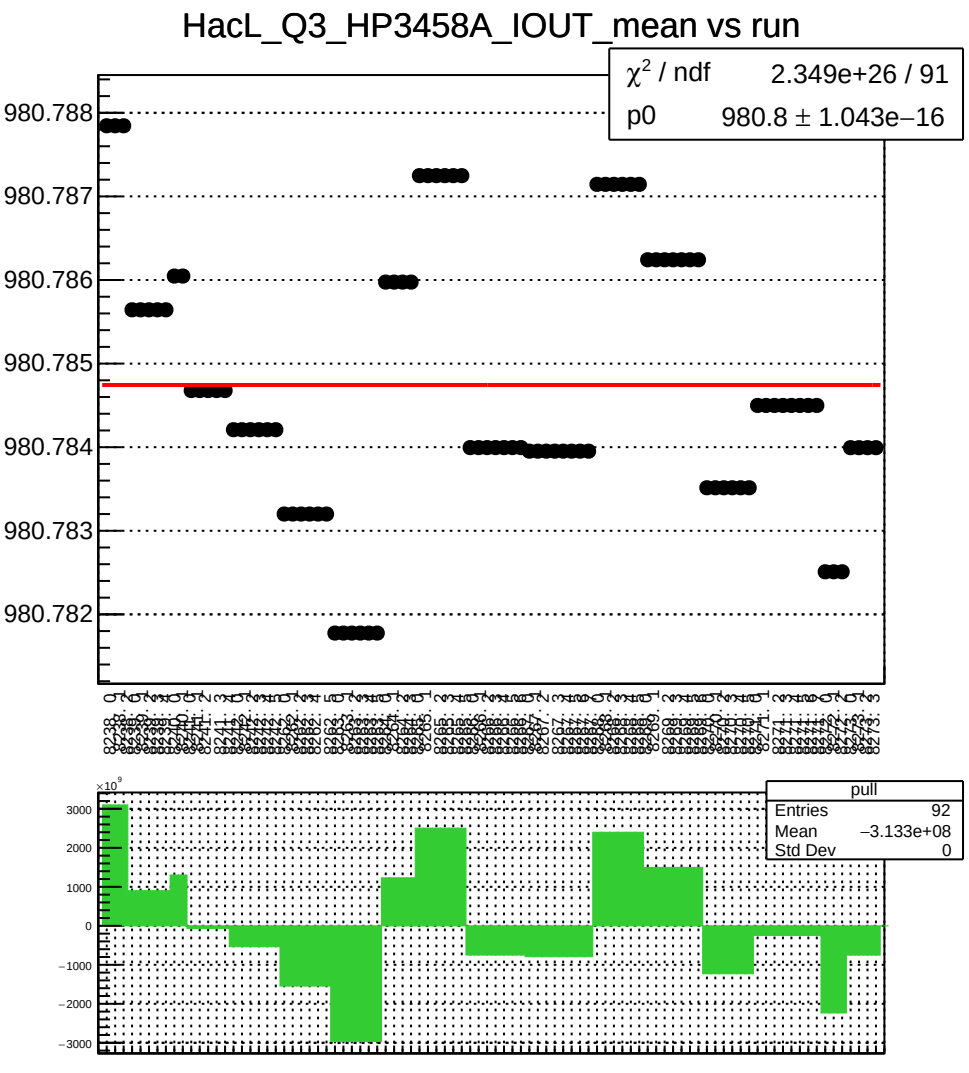

pull1D
Entries 92
Mean 0.02255
Std Dev 0

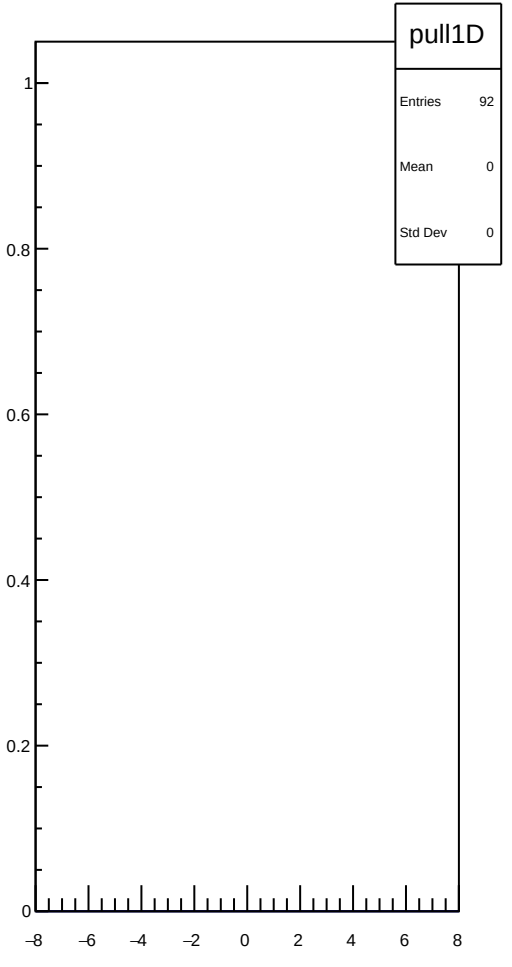

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 4.055e+26 / 91
p0 931.8 ± 1.043e−16
931.77
931.769
931.768
931.767
931.766
931.765
931.764
931.763
931.762
931.761
pull
Entries 92
Mean 3.273e+08
Std Dev 0
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000

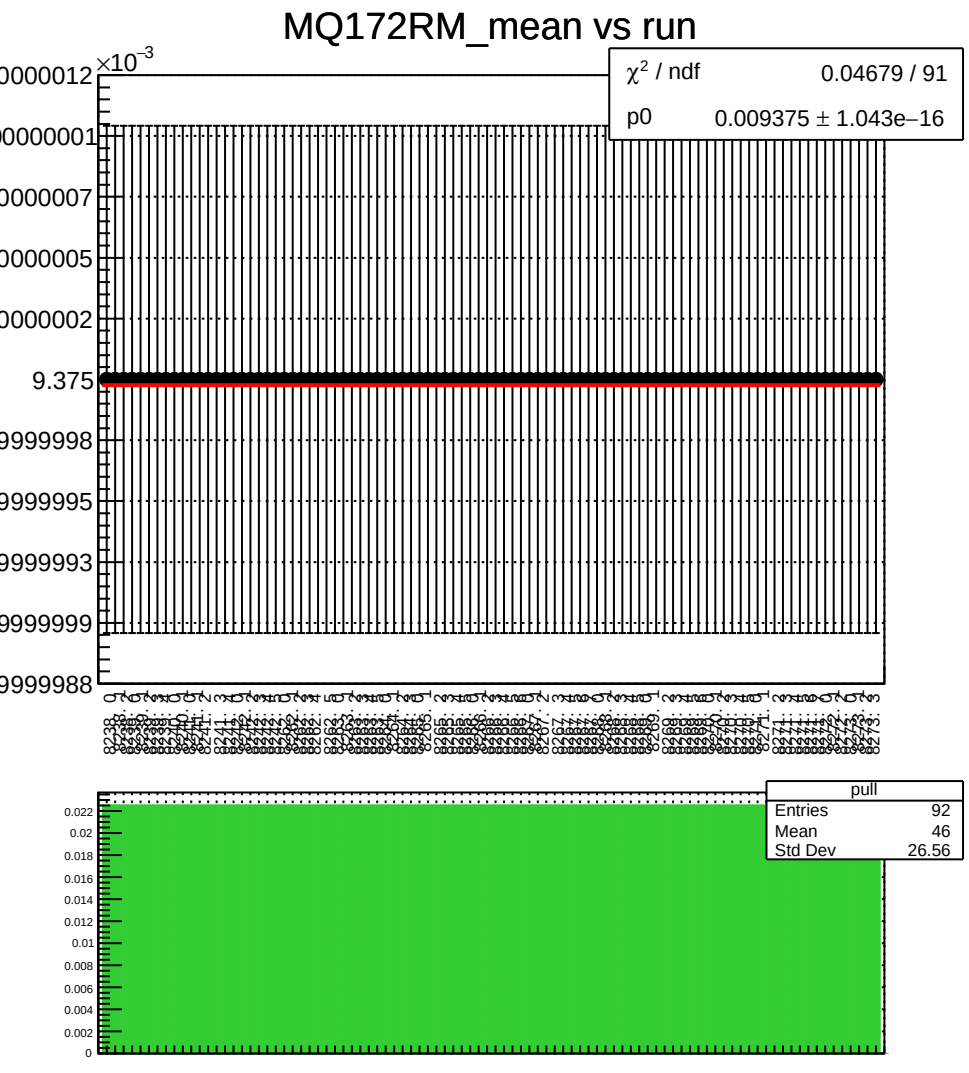

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

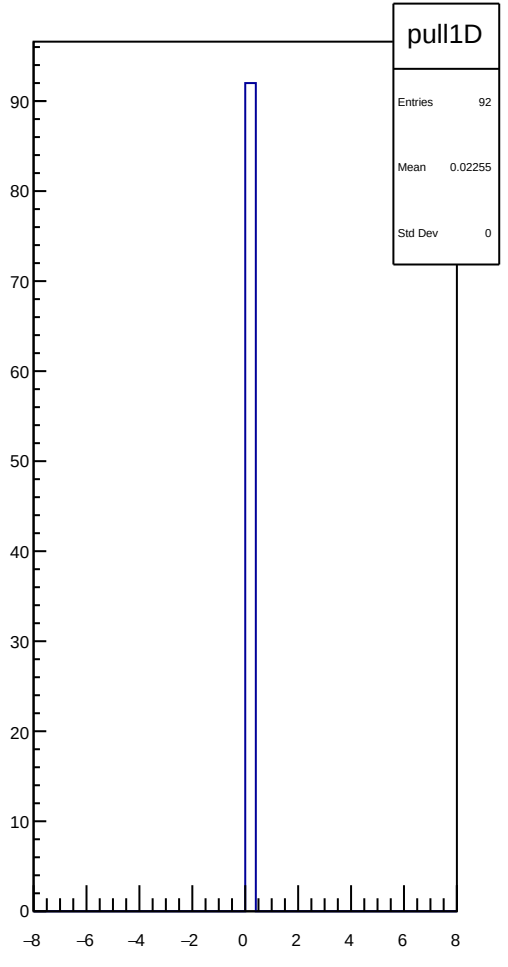

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 8.438e+26 / 91
p0 741 ± 1.043e−16
741.03
741.028
741.026
741.024
741.022
×10⁹
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −5.992e+10
Std Dev 0

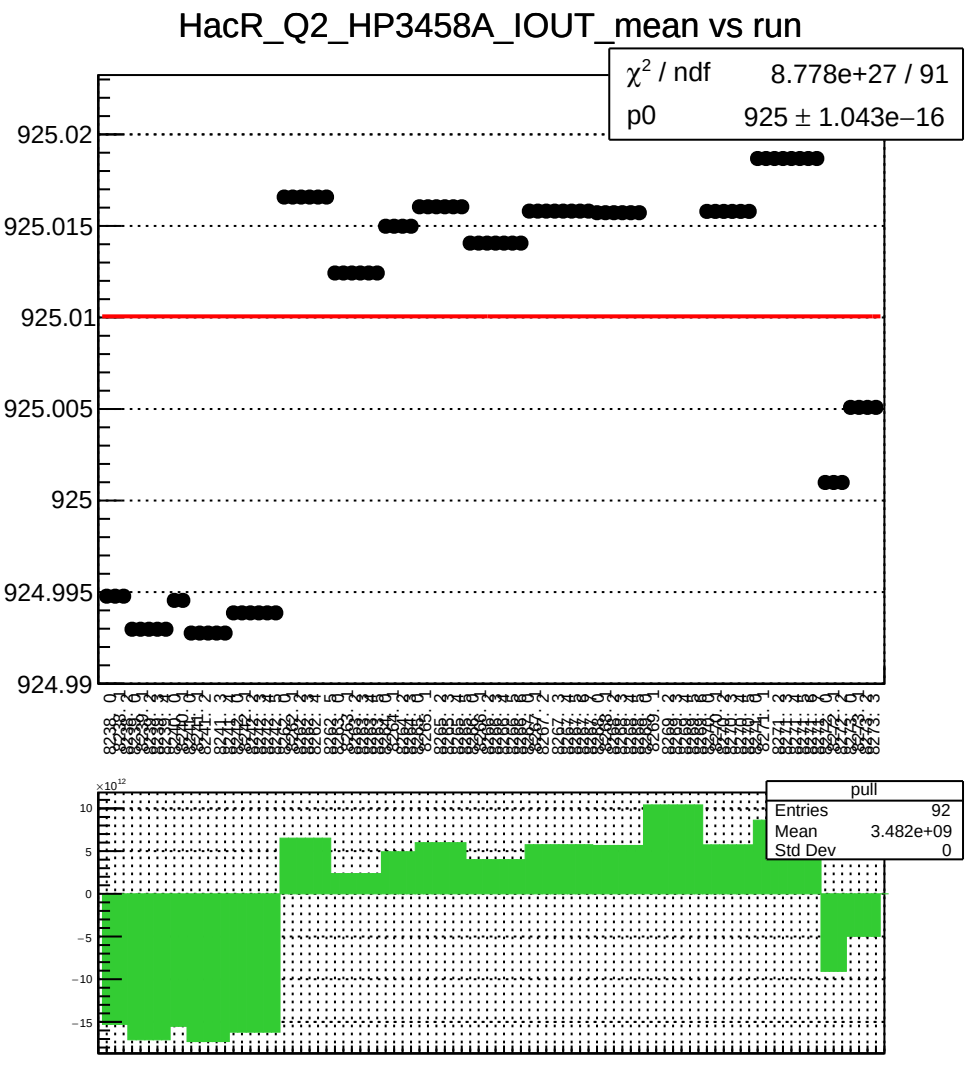

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

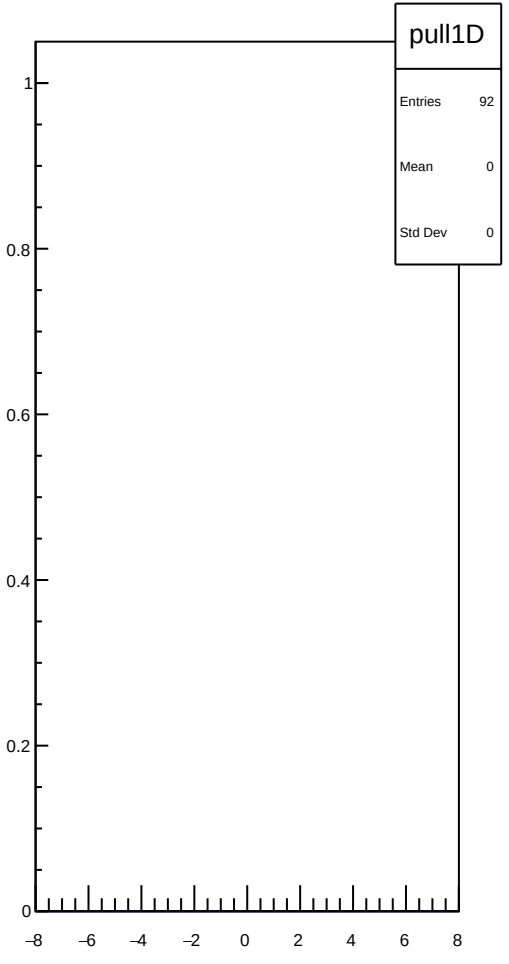

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.349e+26 / 91
p0 980.8 ± 1.043e−16
980.788
980.787
980.786
980.785
980.784
980.783
980.782
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −3.133e+08
Std Dev 0

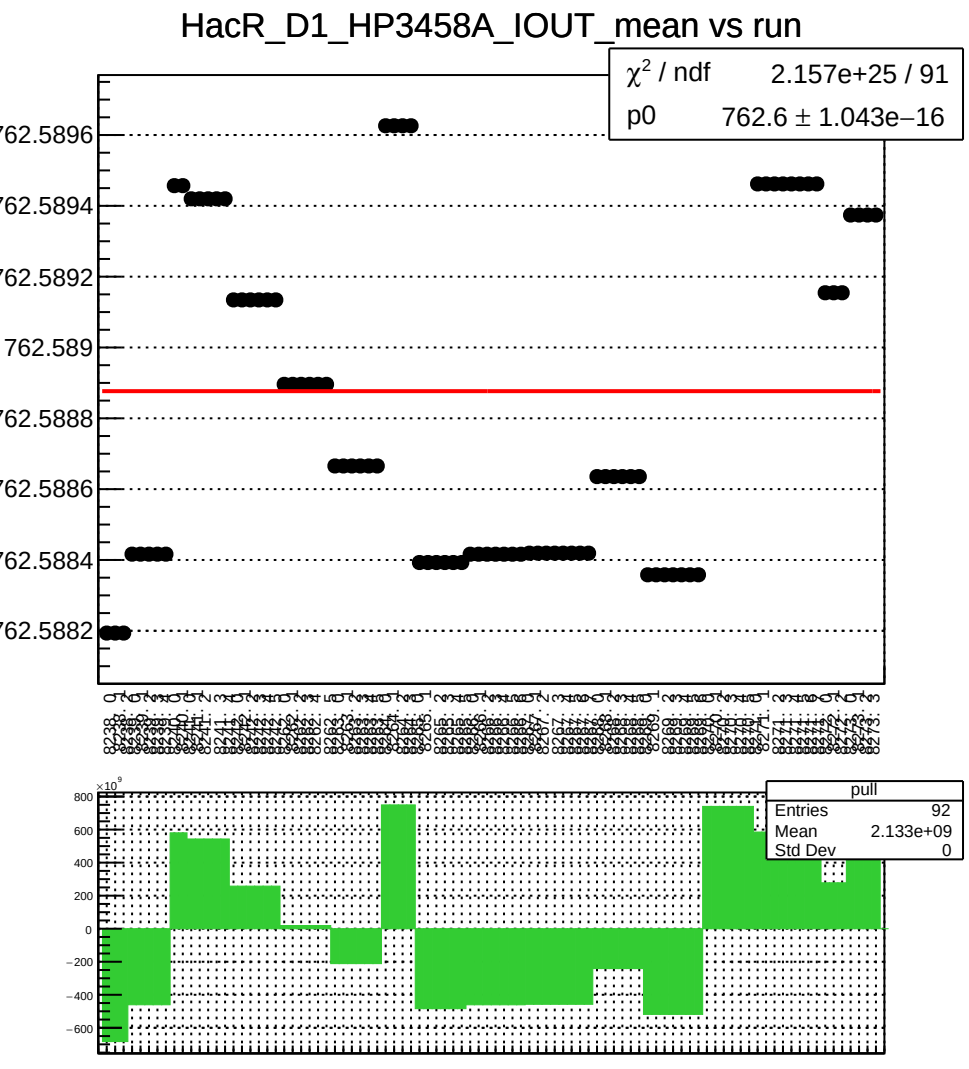

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

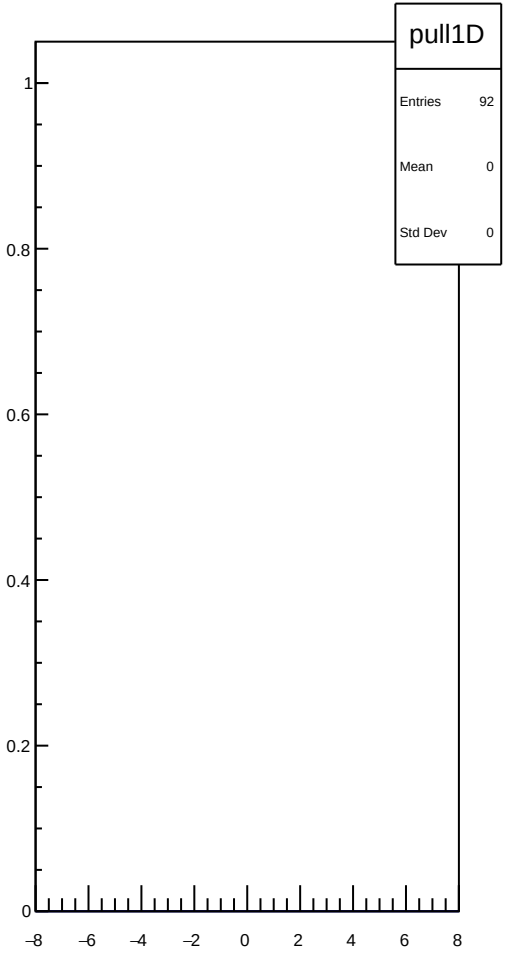

MQ172RM_mean vs run
χ² / ndf 0.04679 / 91
p0 0.009375 ± 1.043e−16
×10⁻³
pull
Entries 92
Mean 46
Std Dev 26.56

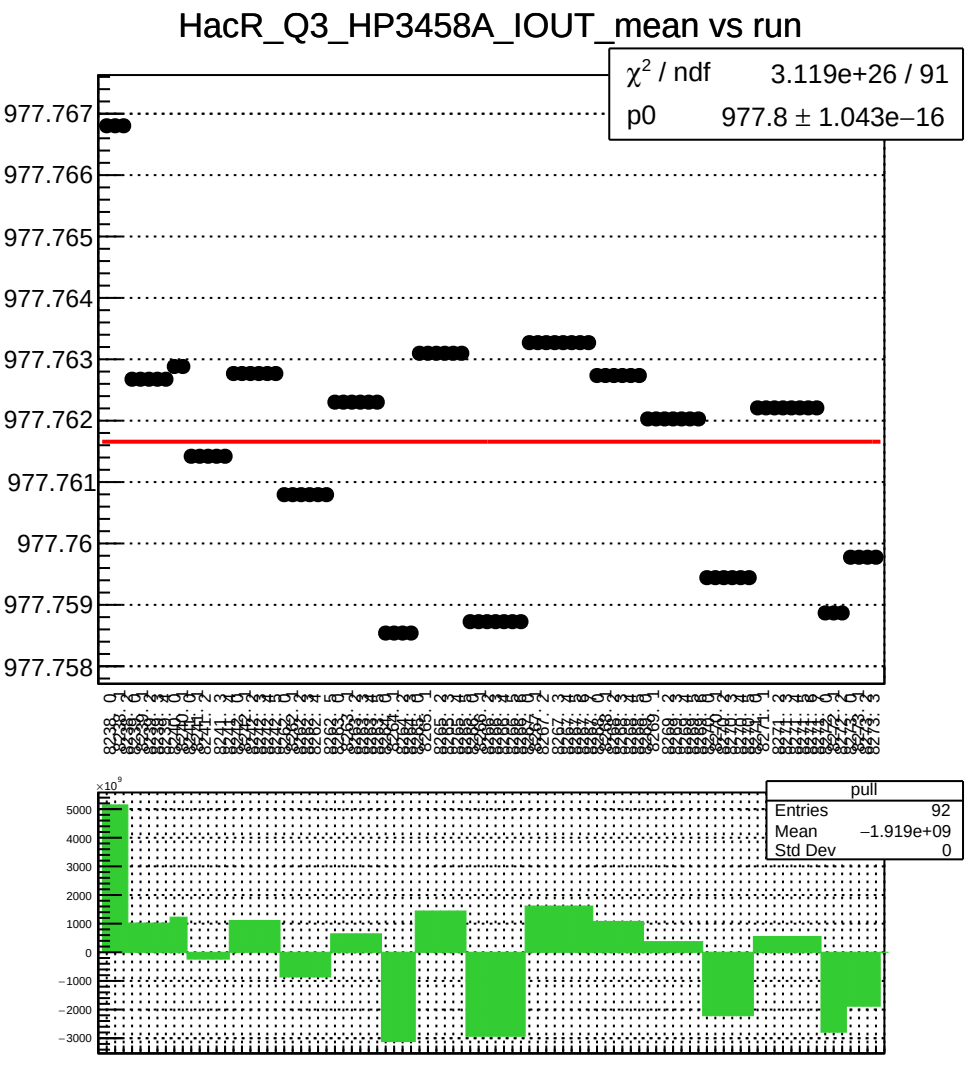

pull1D
Entries 92
Mean 0.02255
Std Dev 0

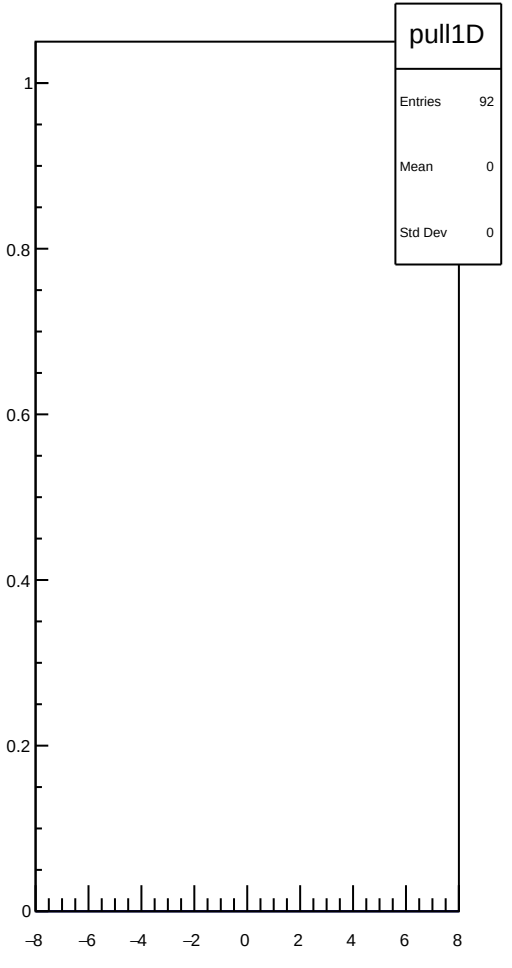

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 8.778e+27 / 91
p0 925 ± 1.043e−16
925.02
925.015
925.01
925.005
925
924.995
924.99
pull
Entries 92
Mean 3.482e+09
Std Dev 0
×10¹²
10
5
0
−5
−10
−15

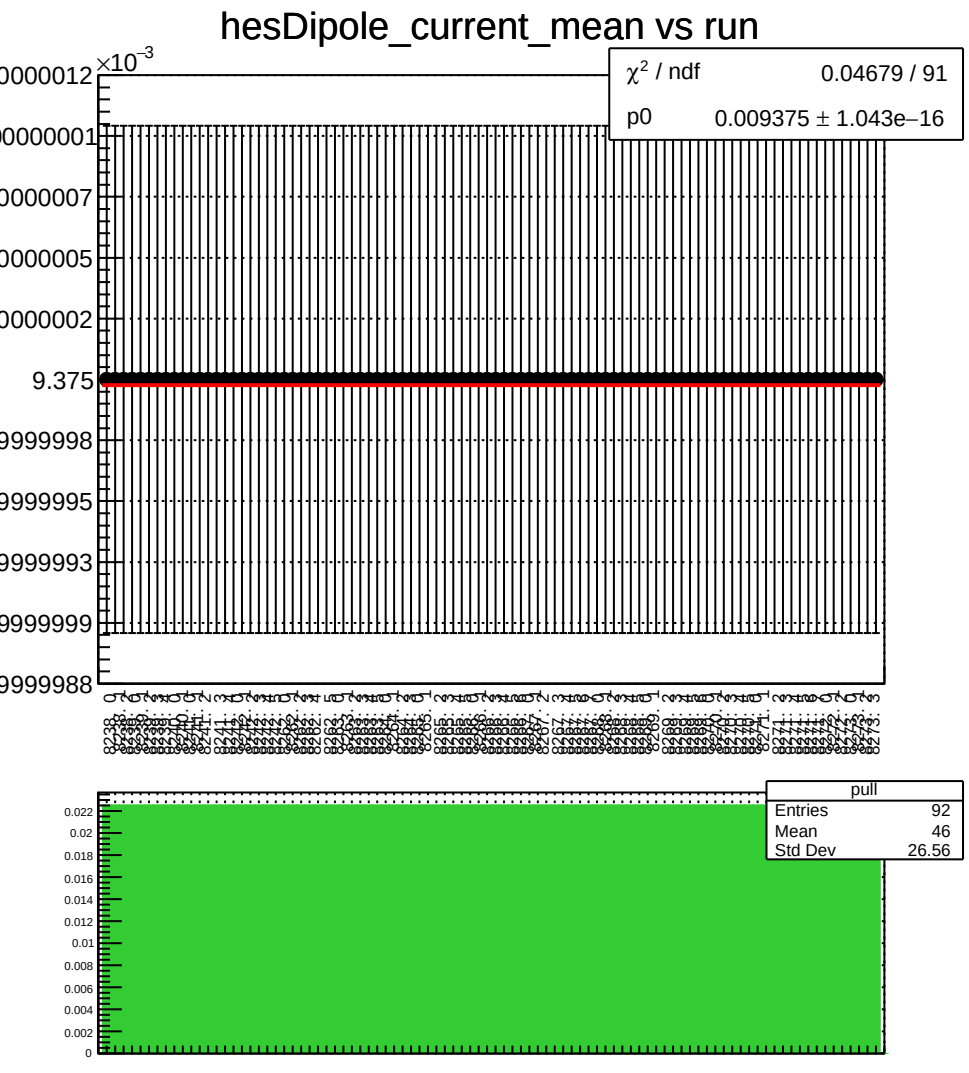

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

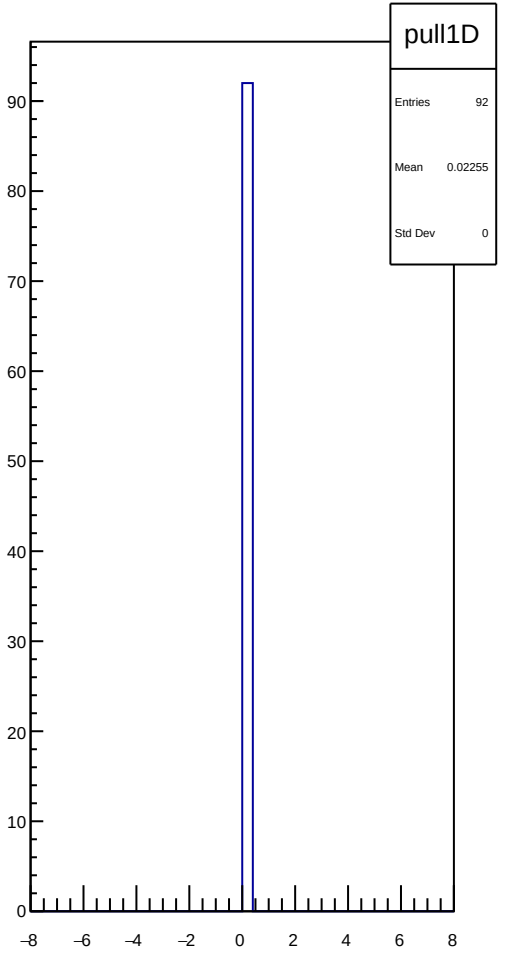

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.157e+25 / 91
p0 762.6 ± 1.043e−16
762.5896
762.5894
762.5892
762.589
762.5888
762.5886
762.5884
762.5882
pull
Entries 92
Mean 2.133e+09
Std Dev 0
×10⁹
800
600
400
200
0
−200
−400
−600

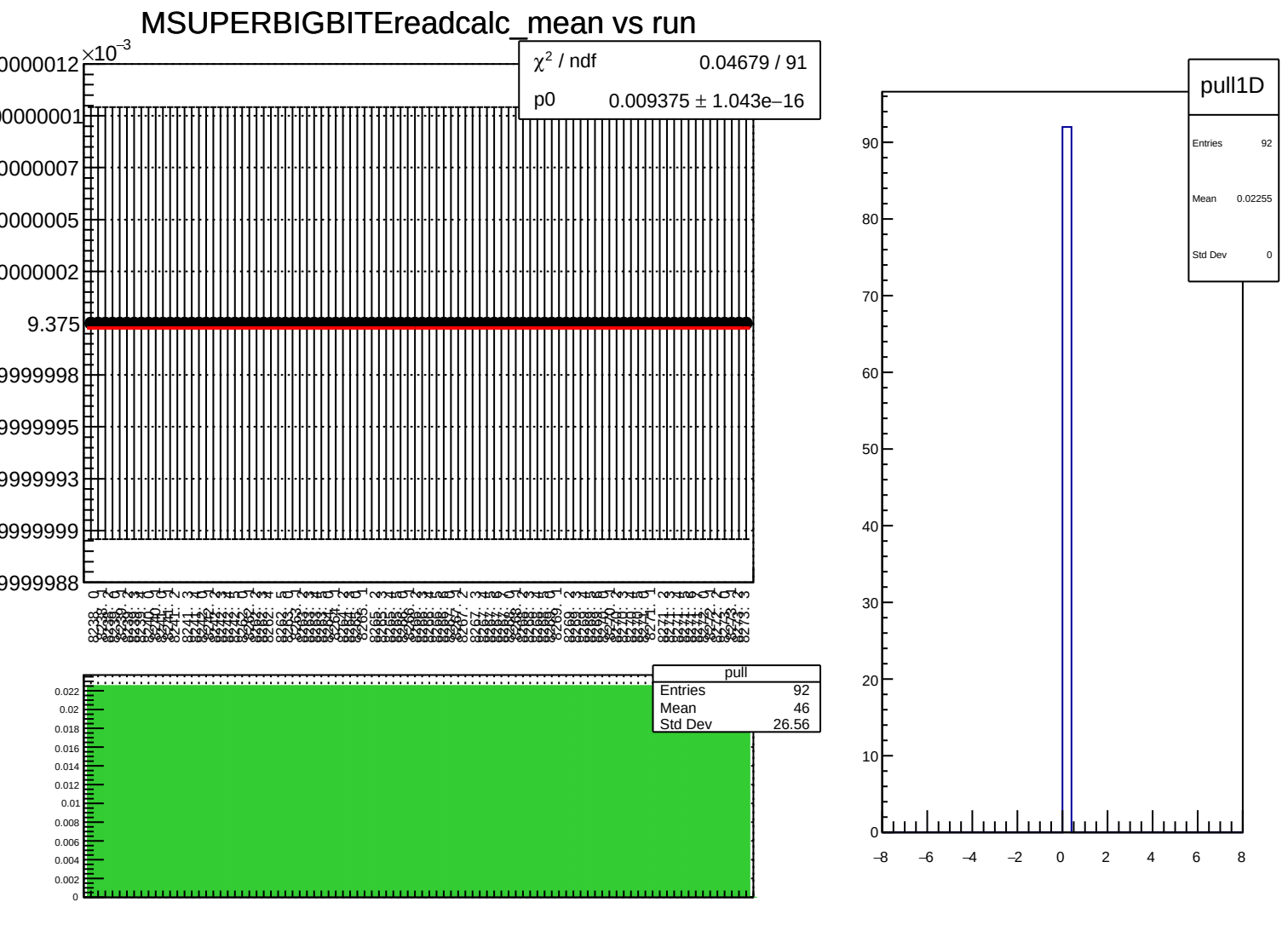

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

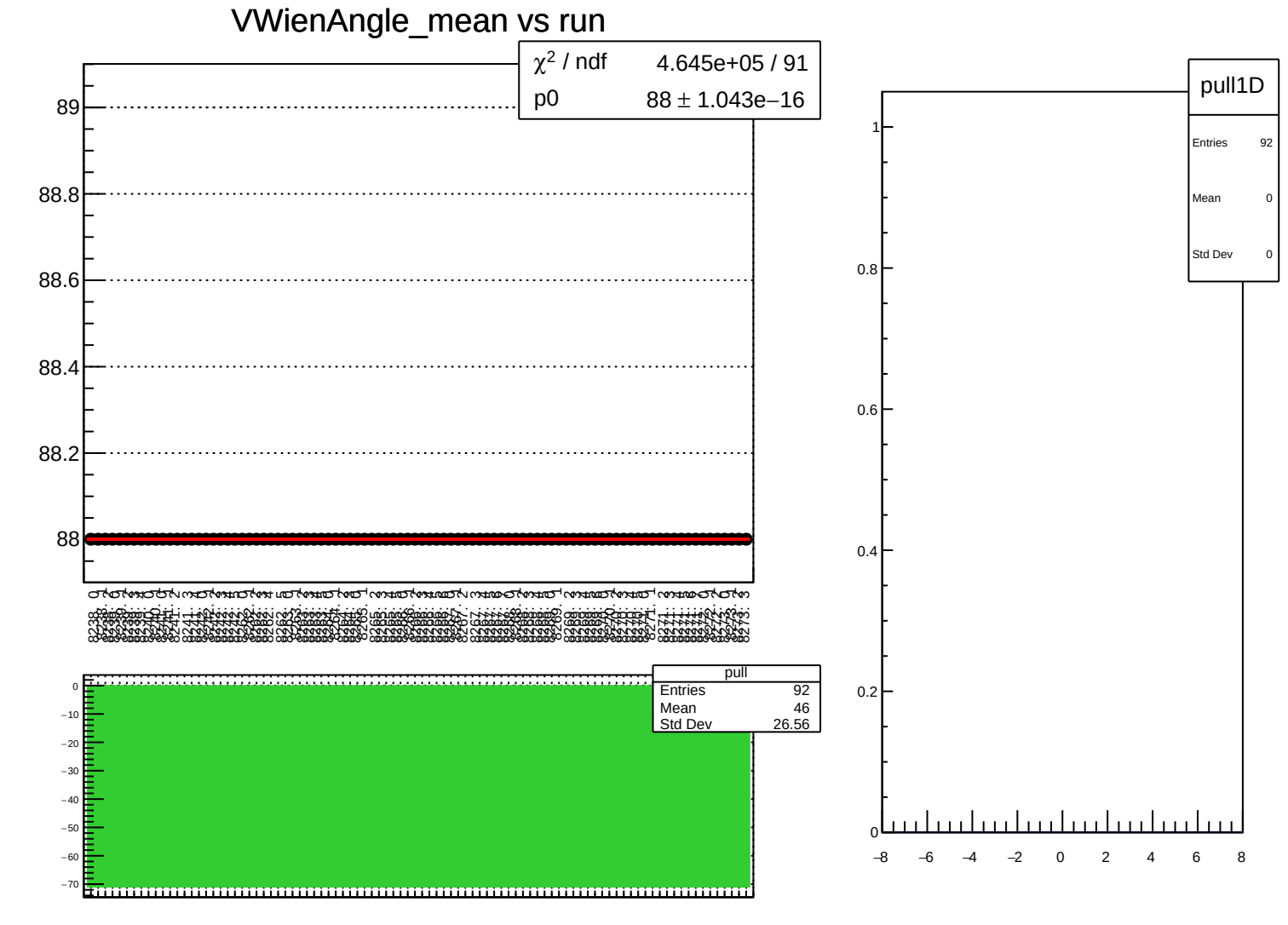

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.119e+26 / 91
p0 977.8 ± 1.043e−16
977.767
977.766
977.765
977.764
977.763
977.762
977.761
977.76
977.759
977.758
pull
Entries 92
Mean −1.919e+09
Std Dev 0
×10⁹
5000
4000
3000
2000
1000
0
−1000
−2000
−3000

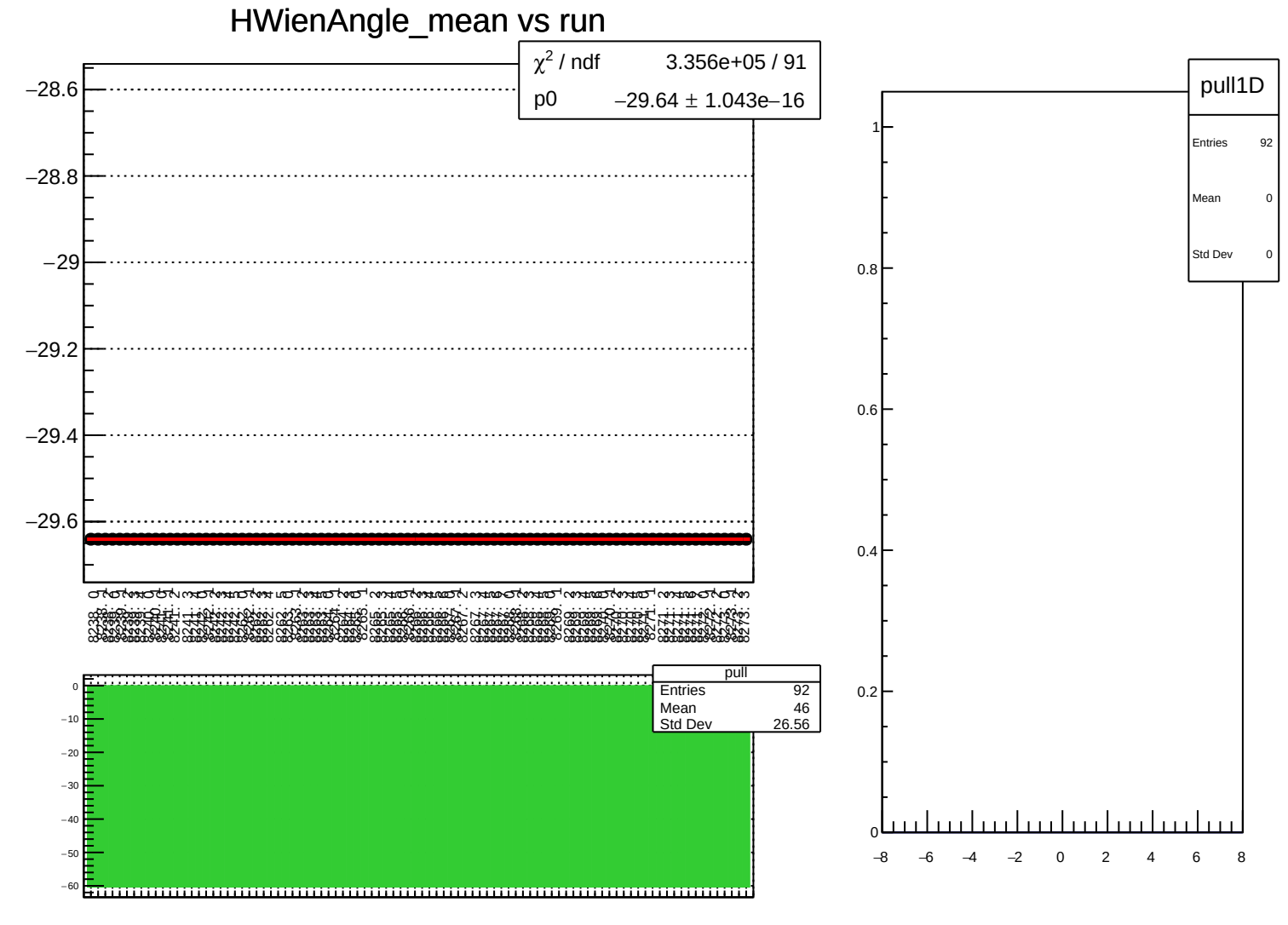

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

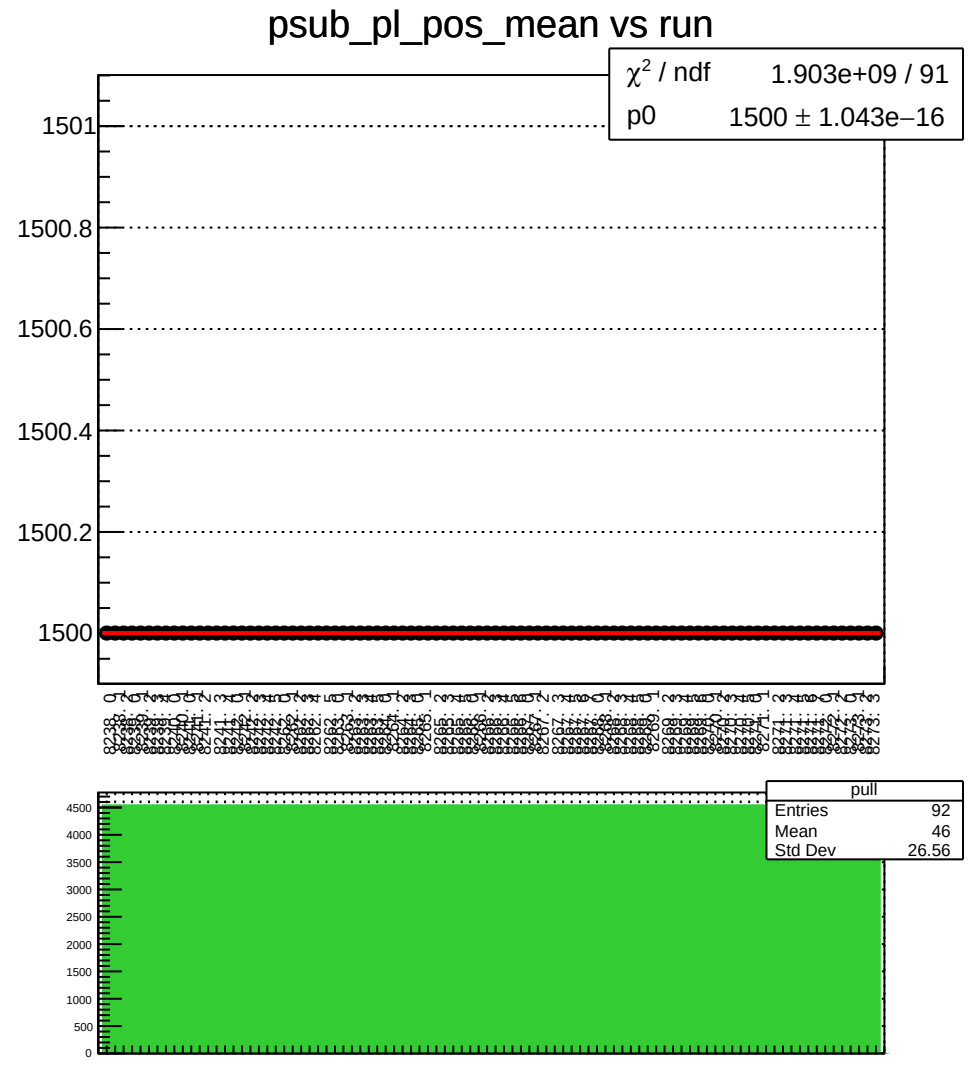

hesDipole_current_mean vs run
χ² / ndf 0.04679 / 91
p0 0.009375 ± 1.043e−16
×10⁻³
pull
Entries 92
Mean 46
Std Dev 26.56

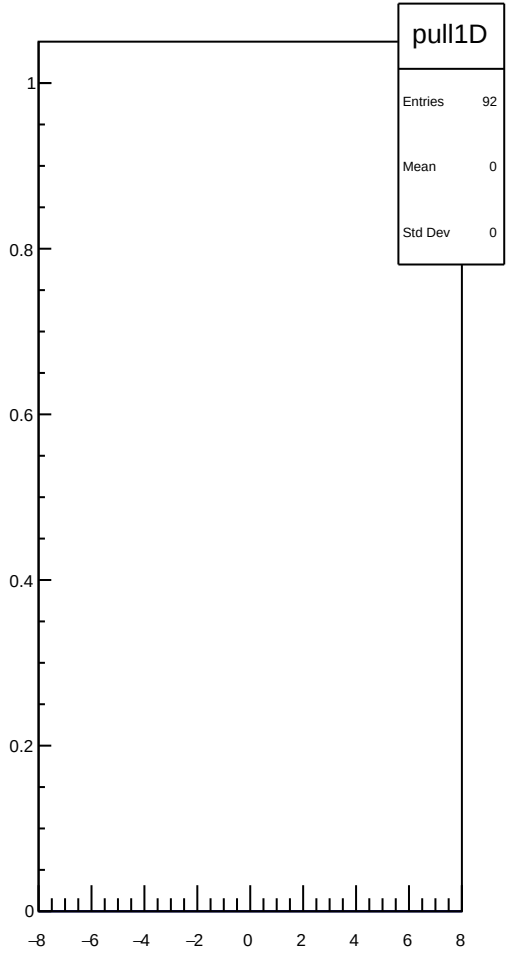

pull1D
Entries 92
Mean 0.02255
Std Dev 0

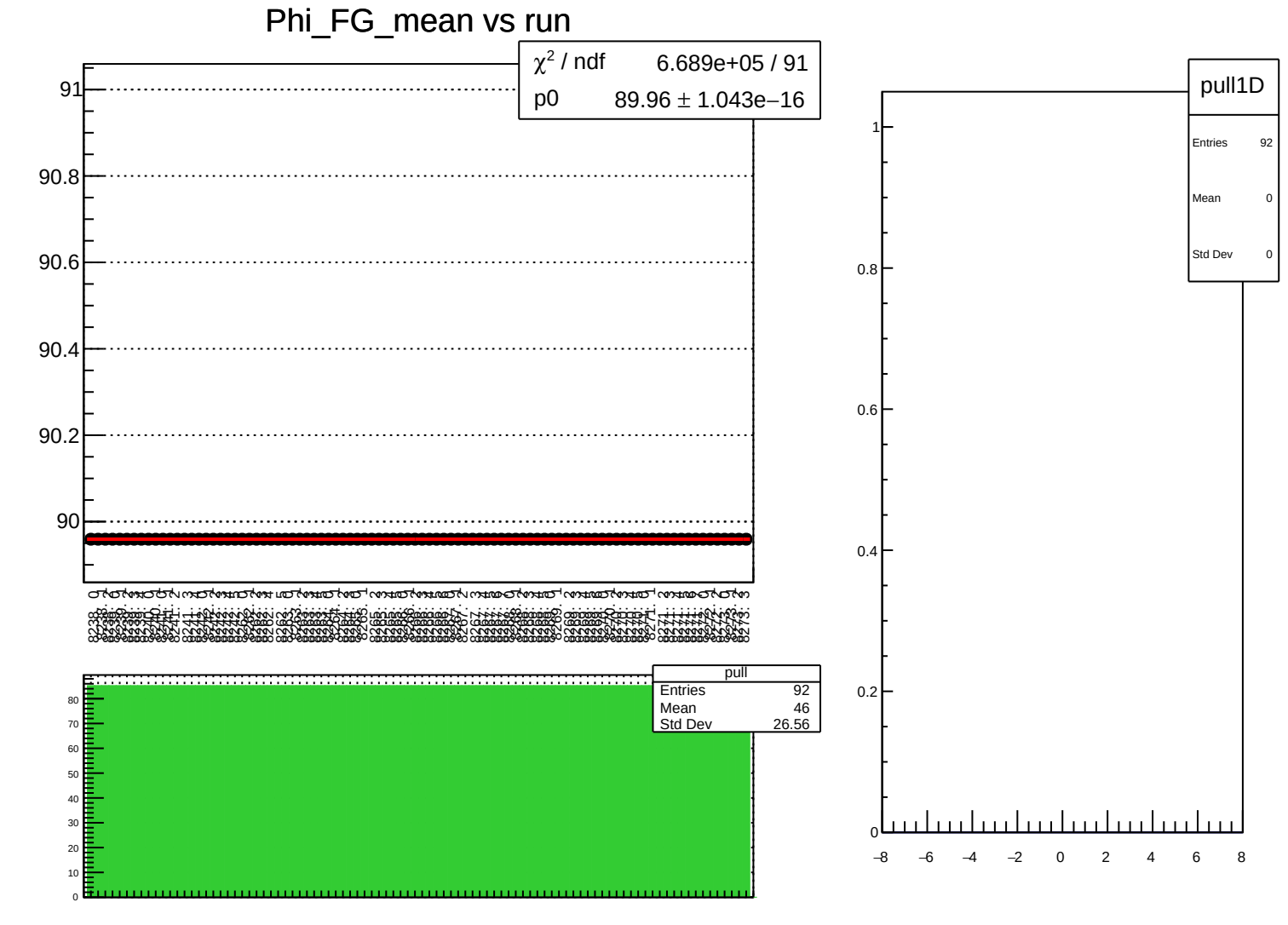

MSUPERBIGBITEreadcalc_mean vs run
×10⁻³
χ² / ndf 0.04679 / 91
p0 0.009375 ± 1.043e−16
9.375
pull
Entries 92
Mean 46
Std Dev 26.56
pull1D
Entries 92
Mean 0.02255
Std Dev 0

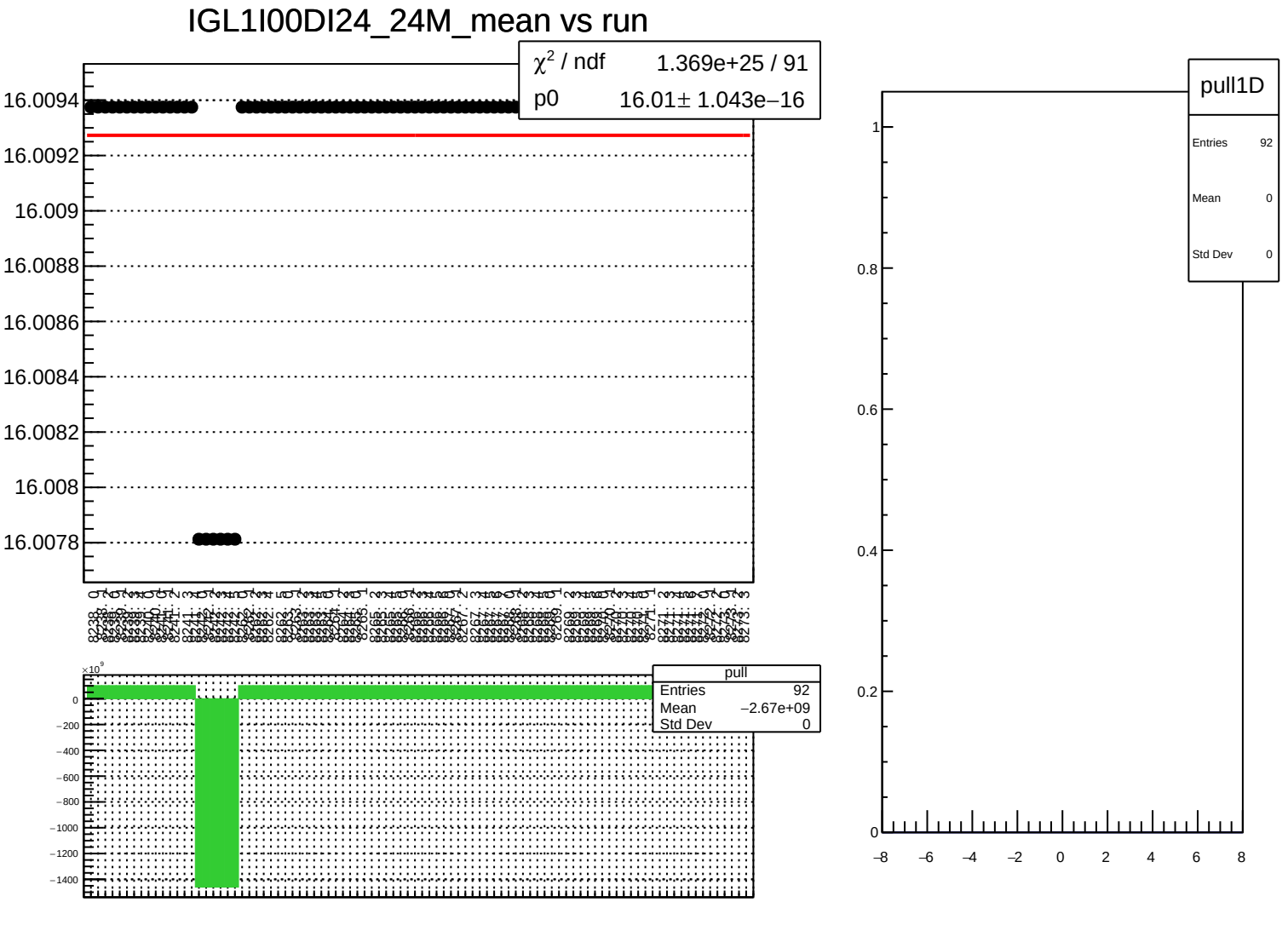

VWienAngle_mean vs run
χ² / ndf 4.645e+05 / 91
p0 88 ± 1.043e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 92
Mean 46
Std Dev 26.56
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

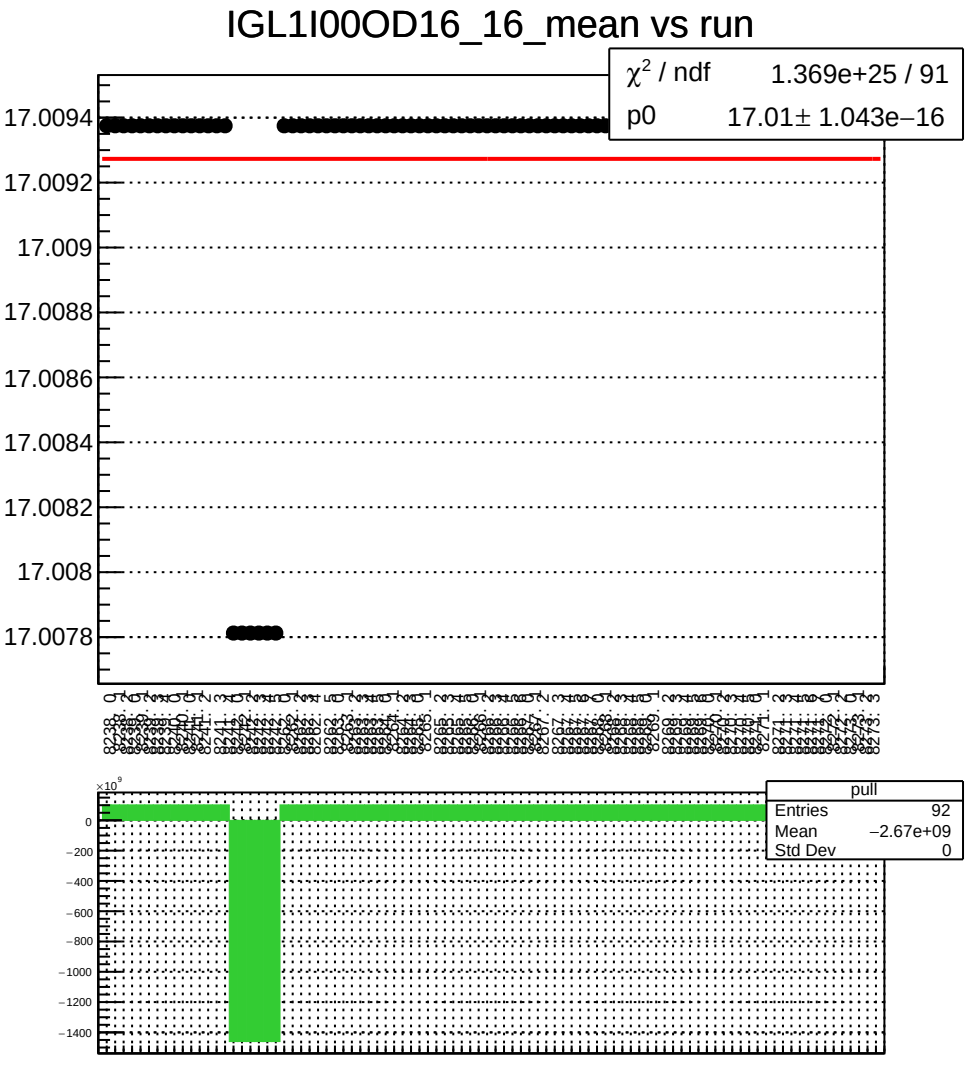

HWienAngle_mean vs run
χ² / ndf 3.356e+05 / 91
p0 −29.64 ± 1.043e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 92
Mean 46
Std Dev 26.56
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

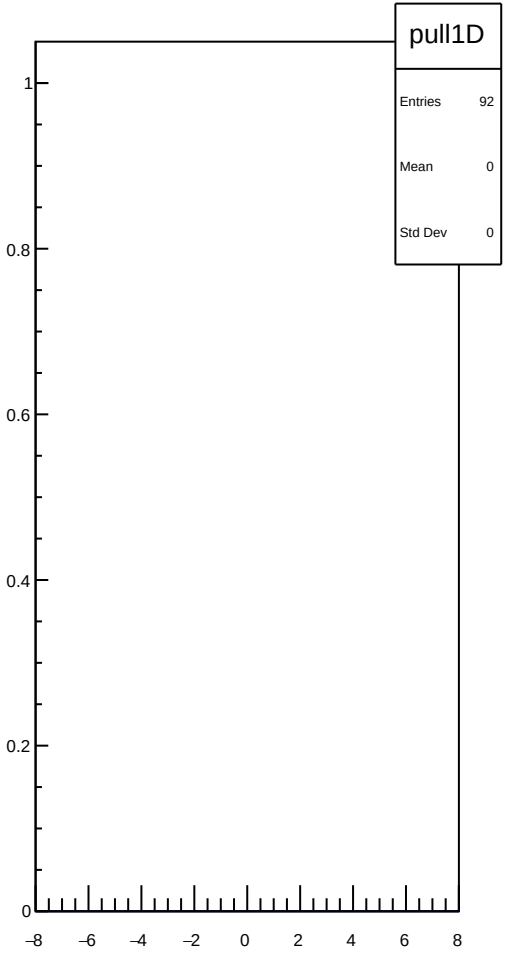

psub_pl_pos_mean vs run
χ² / ndf 1.903e+09 / 91
p0 1500 ± 1.043e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 92
Mean 46
Std Dev 26.56
4500
4000
3500
3000
2500
2000
1500
1000
500
0

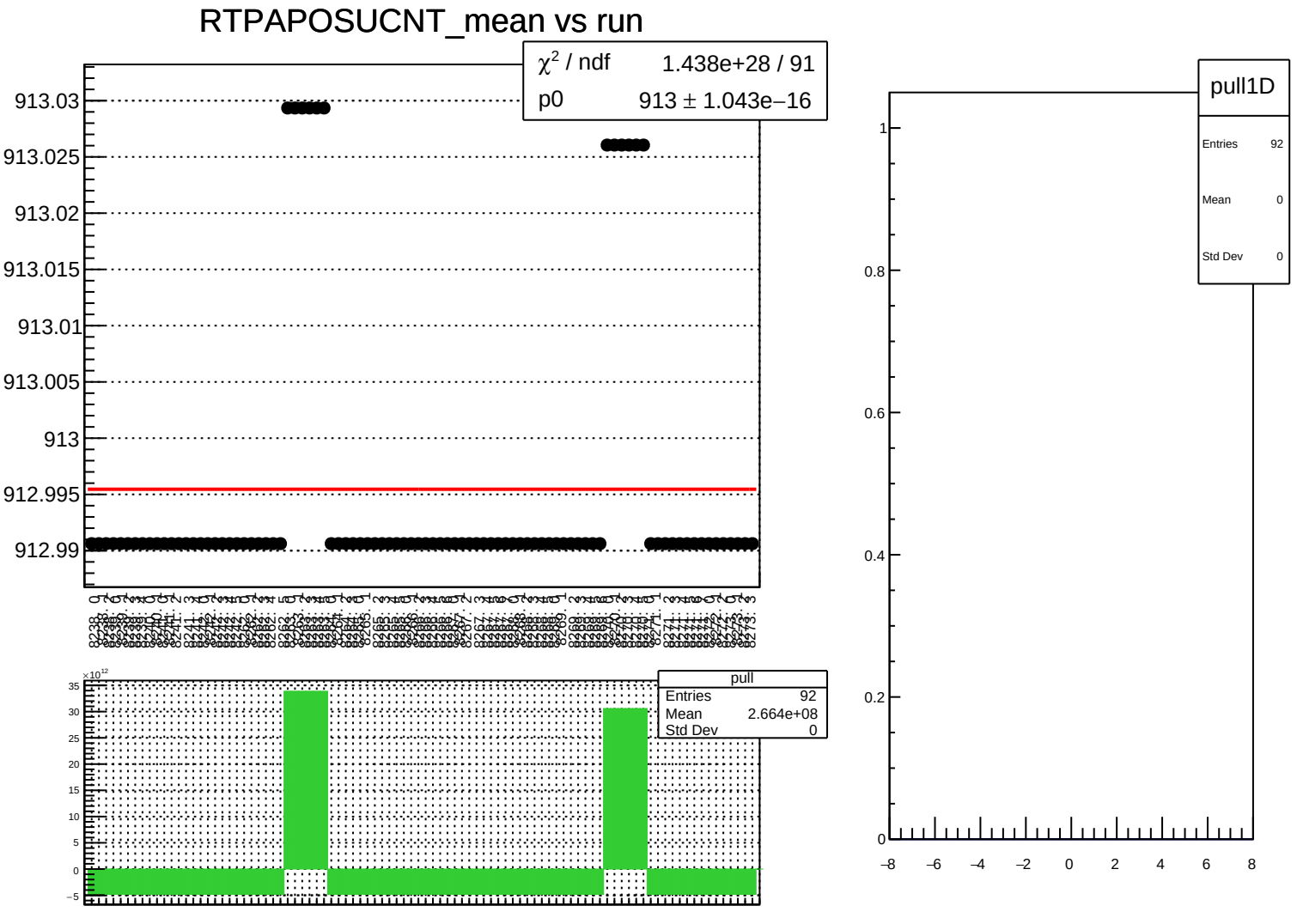

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

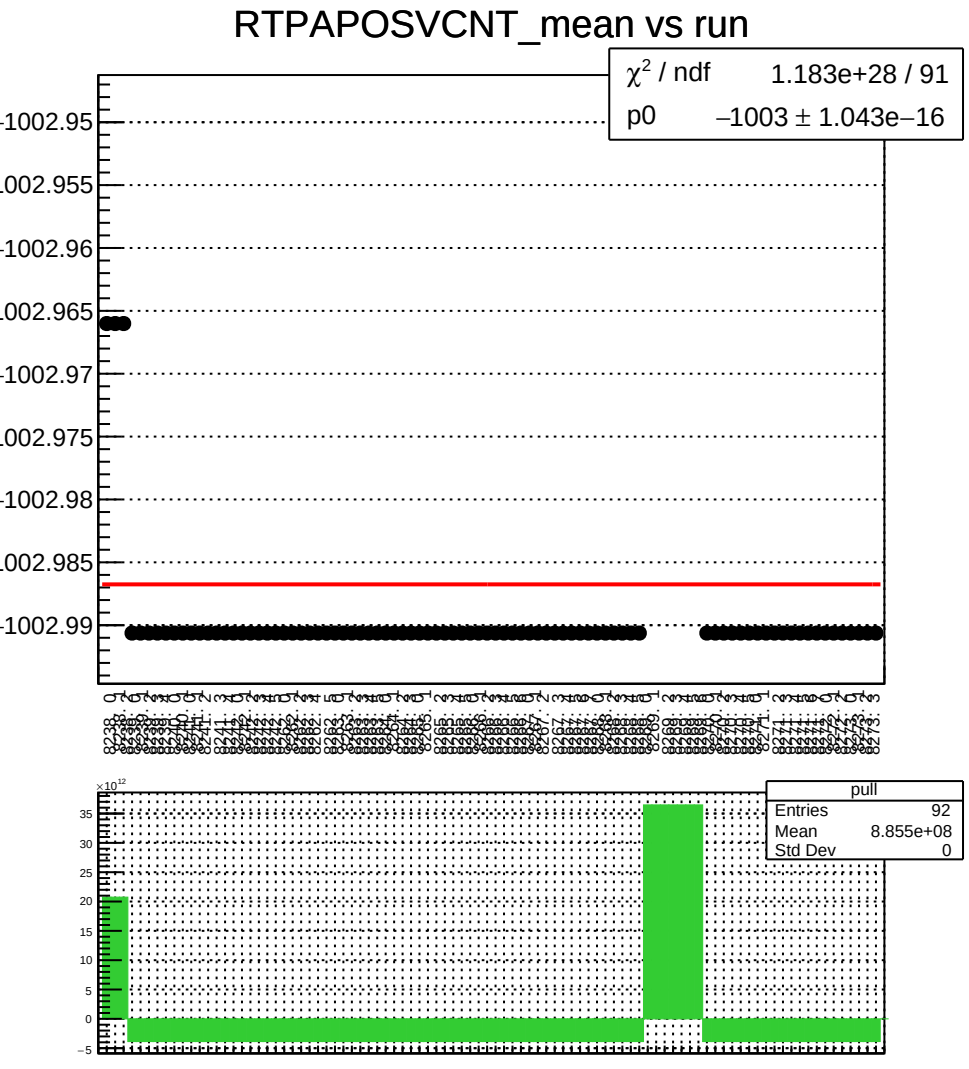

Phi_FG_mean vs run
χ² / ndf 6.689e+05 / 91
p0 89.96 ± 1.043e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 92
Mean 46
Std Dev 26.56
80
70
60
50
40
30
20
10
0
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

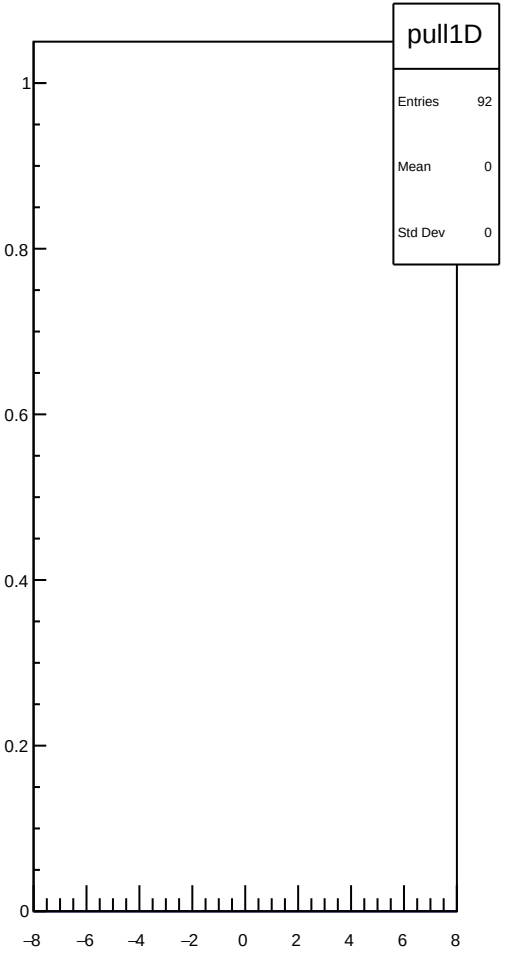

IGL1I00DI24_24M_mean vs run
χ² / ndf 1.369e+25 / 91
p0 16.01± 1.043e−16
16.0094
16.0092
16.009
16.0088
16.0086
16.0084
16.0082
16.008
16.0078
pull
Entries 92
Mean −2.67e+09
Std Dev 0
×10⁹
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

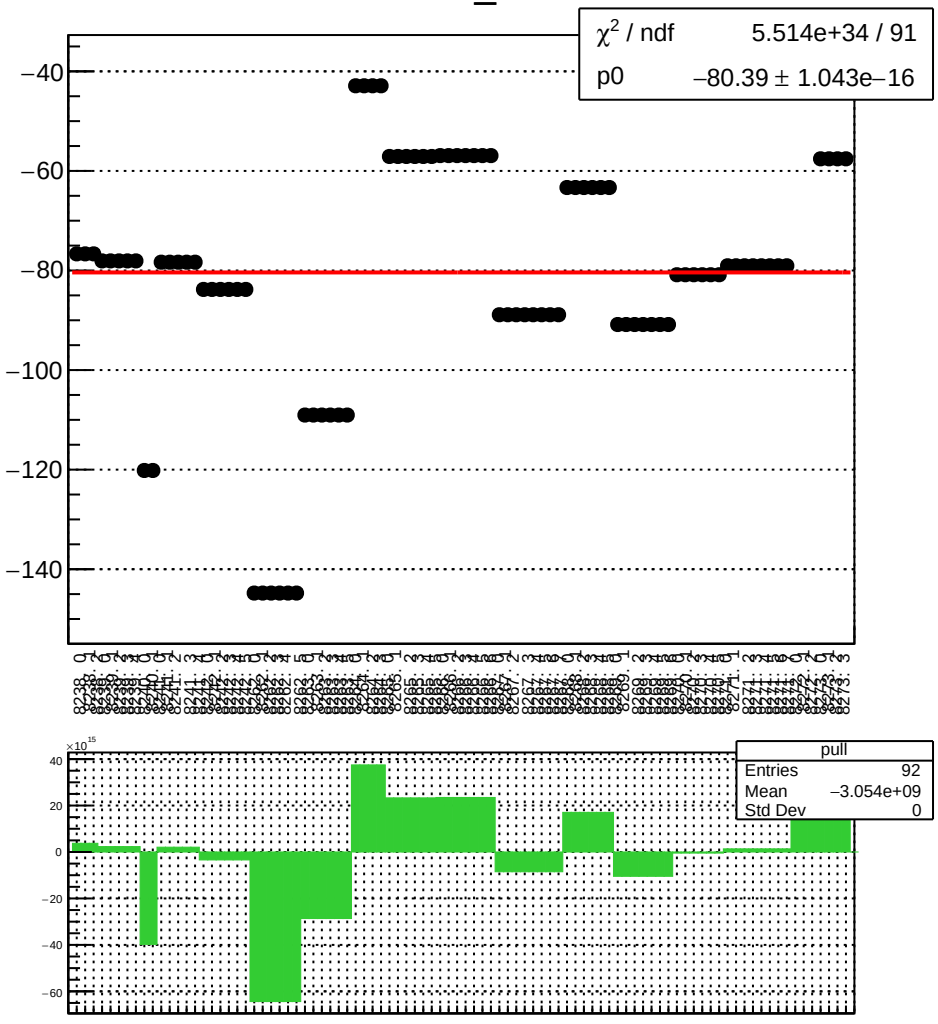

IGL1I00OD16_16_mean vs run
χ² / ndf 1.369e+25 / 91
p0 17.01± 1.043e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
pull
Entries 92
Mean −2.67e+09
Std Dev 0
×10⁹
0
−200
−400
−600
−800
−1000
−1200
−1400

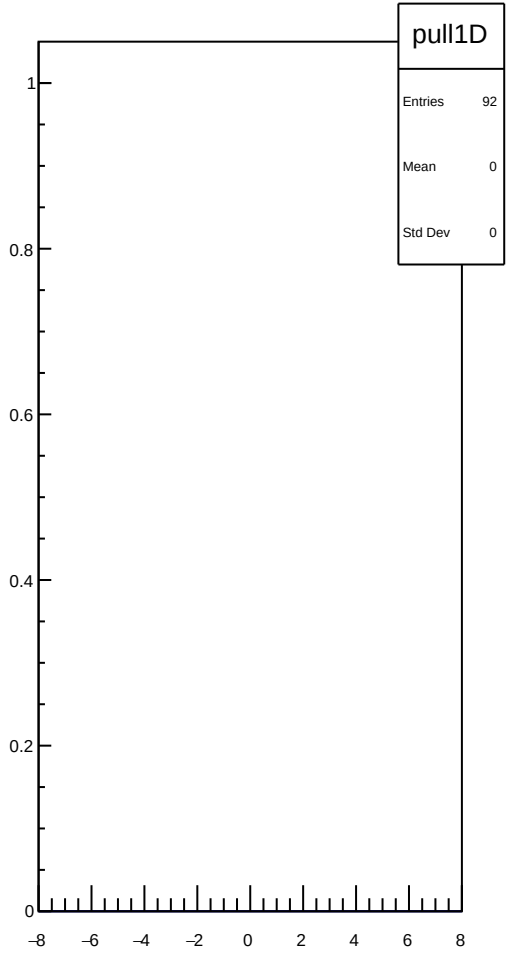

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

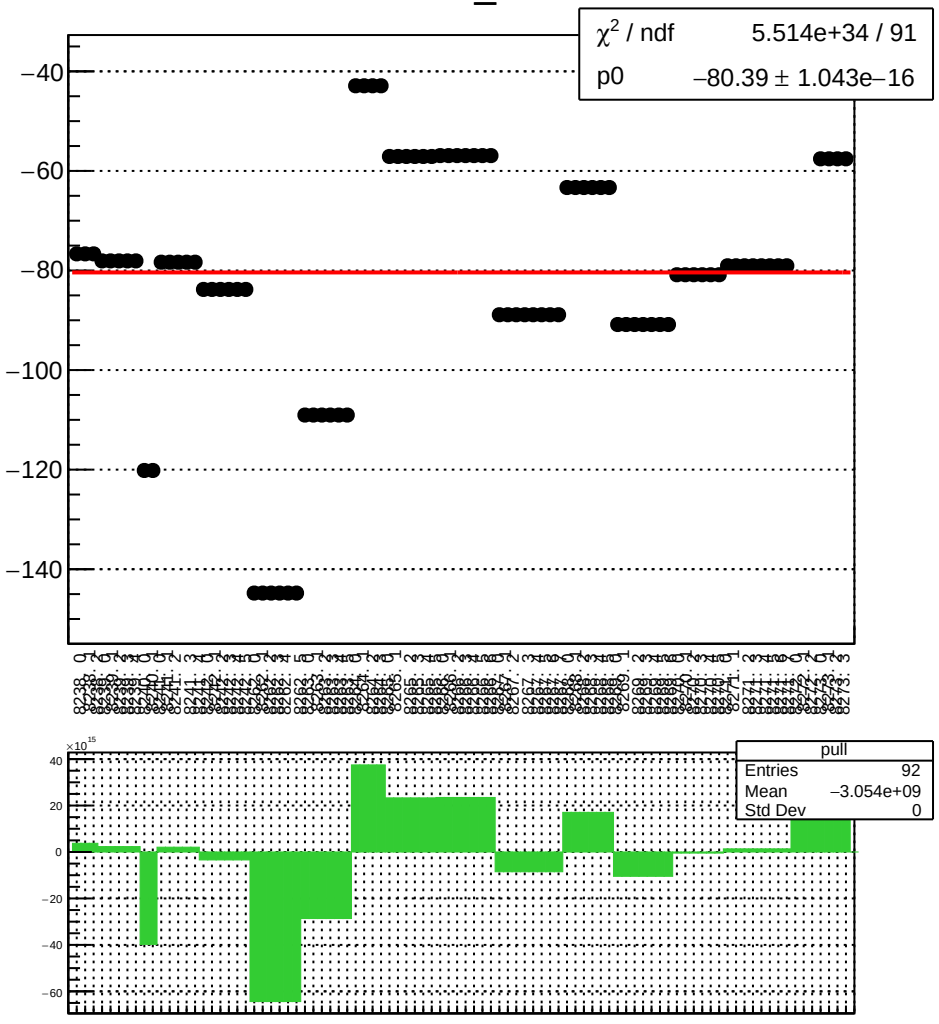

RTPAPOSUCNT_mean vs run
χ² / ndf 1.438e+28 / 91
p0 913 ± 1.043e−16
913.03
913.025
913.02
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 92
Mean 2.664e+08
Std Dev 0
×10¹²
35
30
25
20
15
10
5
0
−5
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

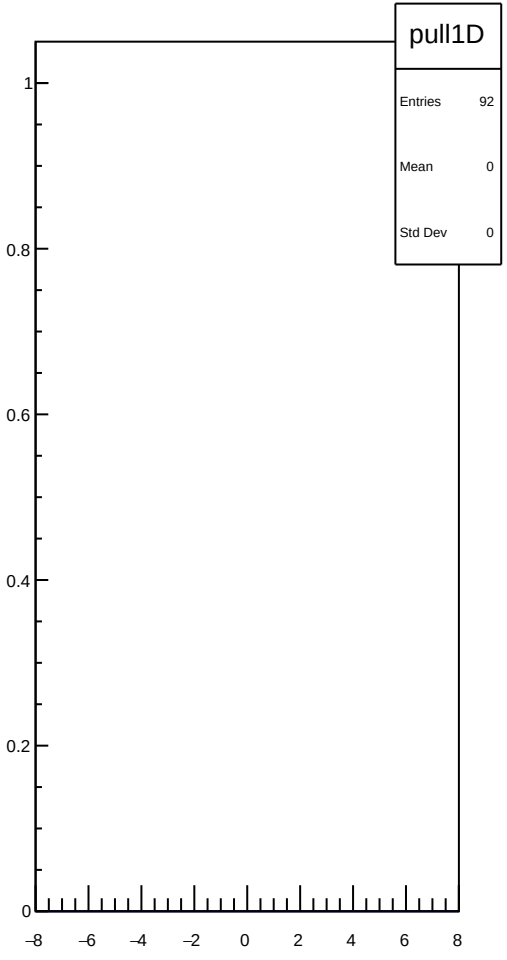

RTPAPOSVCNT_mean vs run
χ² / ndf 1.183e+28 / 91
p0 −1003 ± 1.043e−16
−1002.95
−1002.955
−1002.96
−1002.965
−1002.97
−1002.975
−1002.98
−1002.985
−1002.99
pull
Entries 92
Mean 8.855e+08
Std Dev 0
×10¹²
35
30
25
20
15
10
5
0
−5


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 5.514e+34 / 91
p0 −80.39 ± 1.043e−16
−40
−60
−80
−100
−120
−140
pull
Entries 92
Mean −3.054e+09
Std Dev 0
×10¹⁵
40
20
0
−20
−40
−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


RTPPITA2CNT_mean vs run
χ² / ndf 5.514e+34 / 91
p0 −80.39 ± 1.043e−16
−40
−60
−80
−100
−120
−140
pull
Entries 92
Mean −3.054e+09
Std Dev 0
×10¹⁵
40
20
0
−20
−40
−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