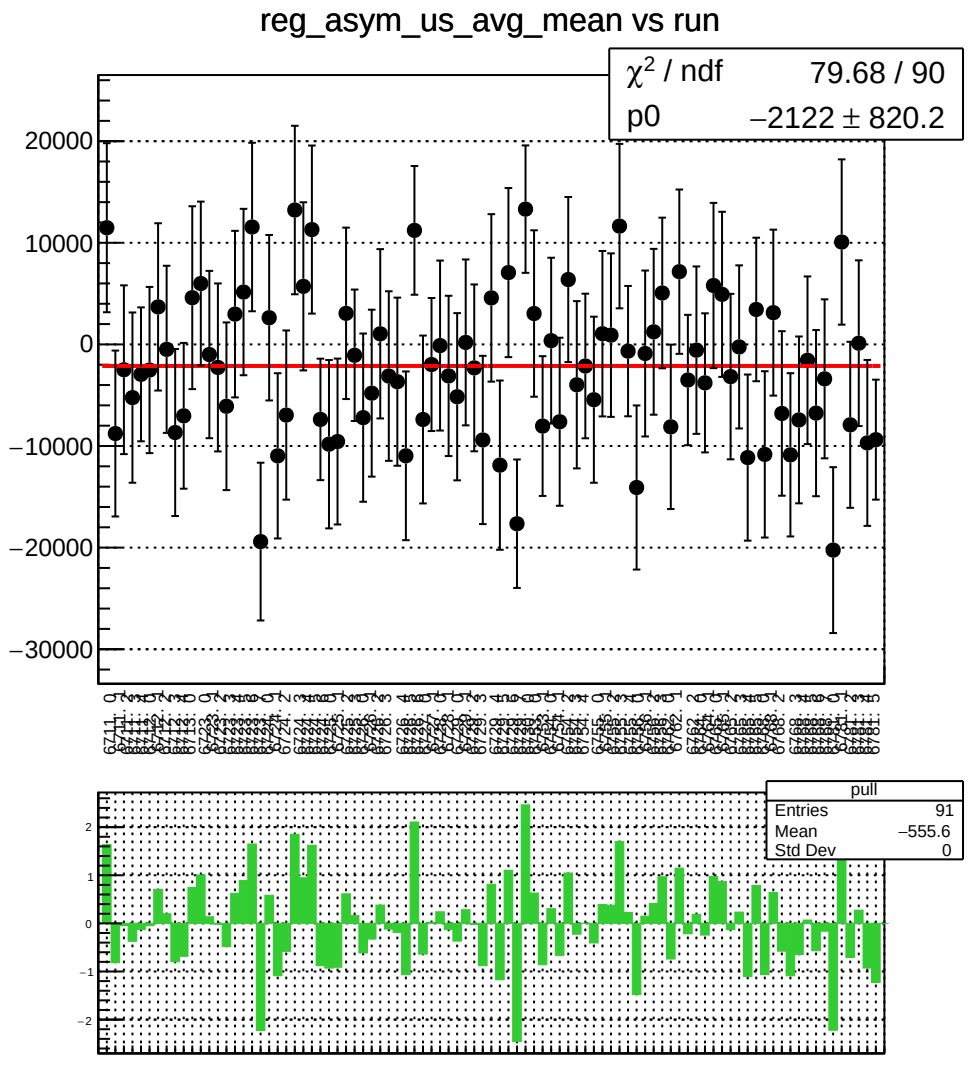
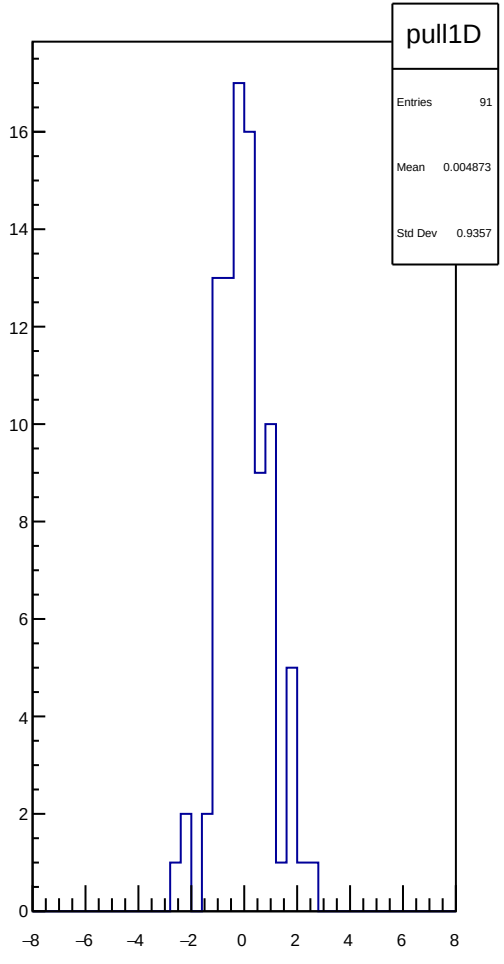
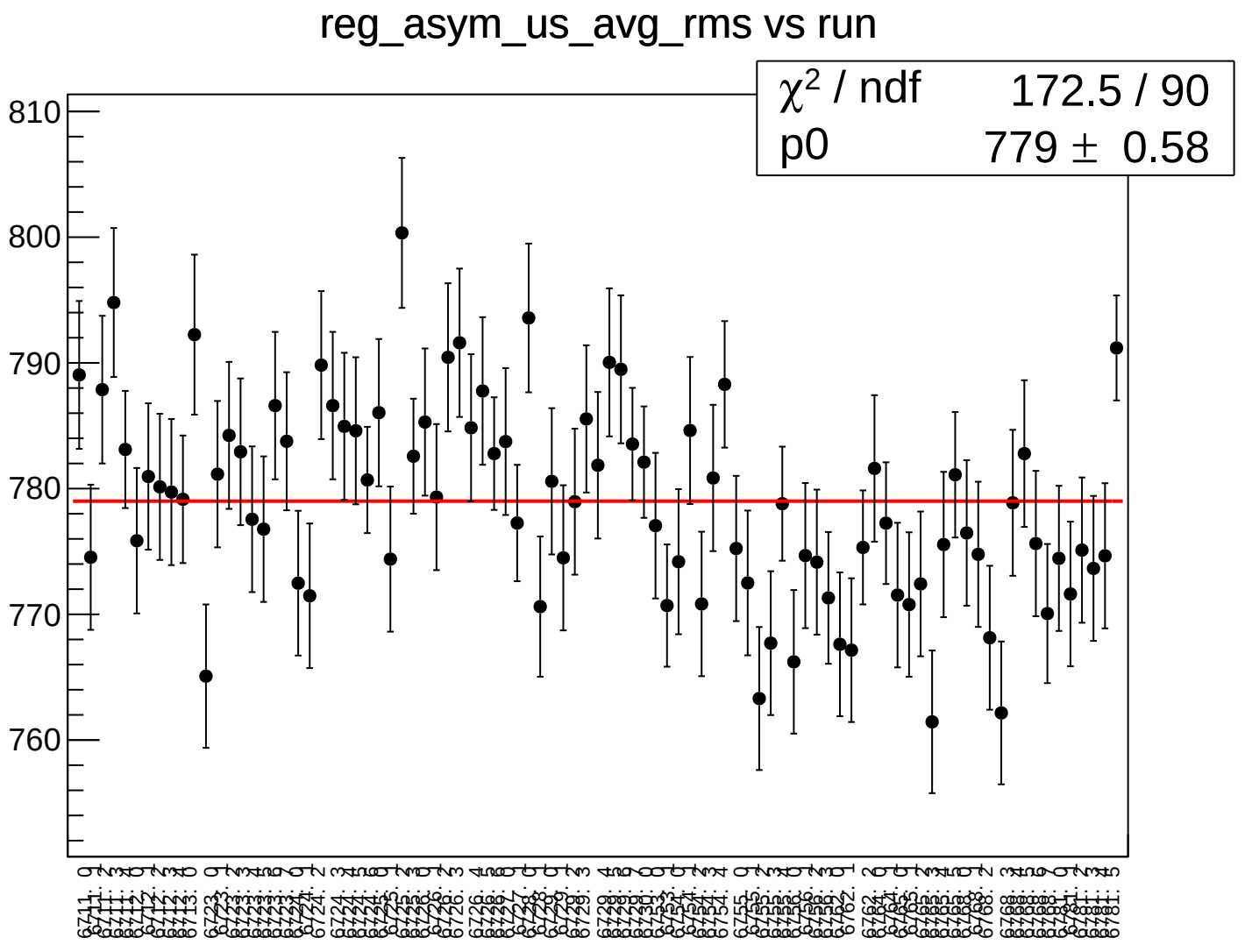
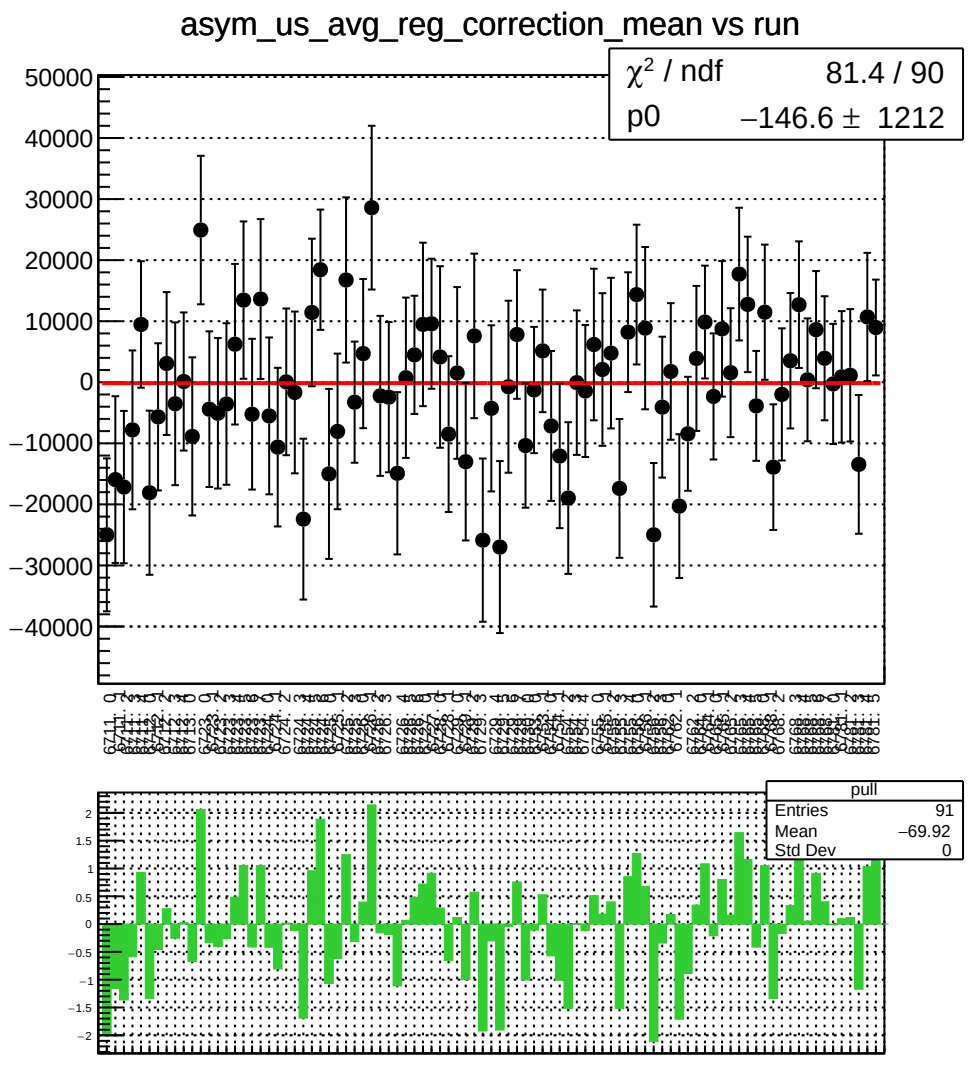
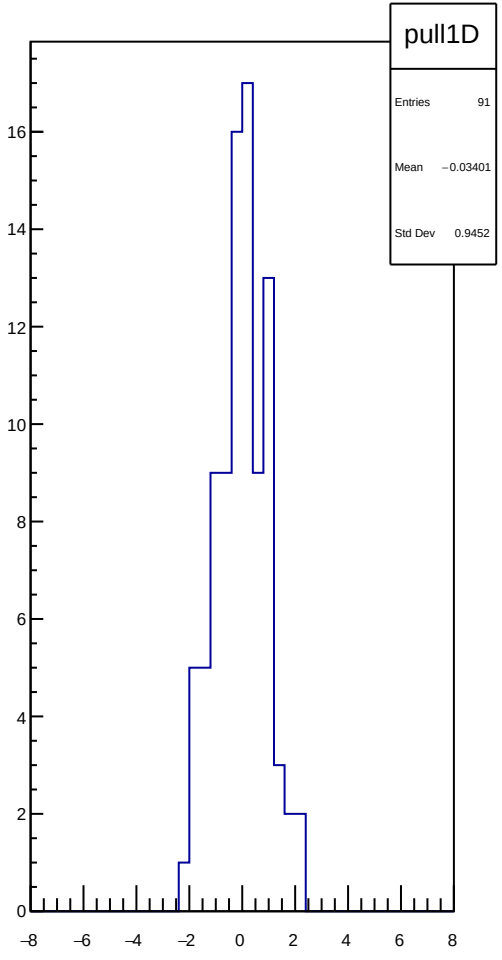
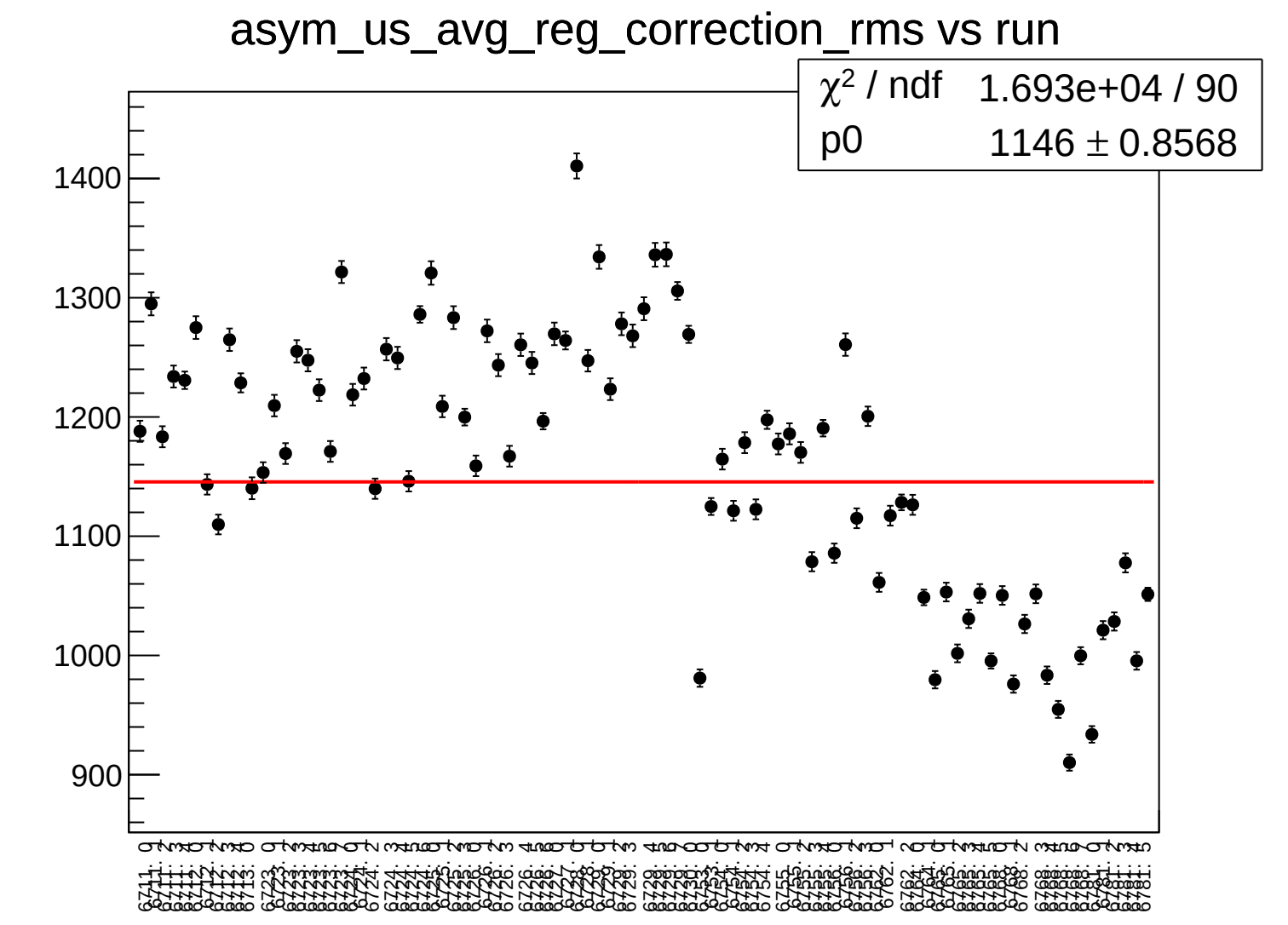

reg_asym_us_avg_mean vs run
χ² / ndf 79.68 / 90
p0 −2122 ± 820.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −555.6
Std Dev 0
2
1
0
−1
−2

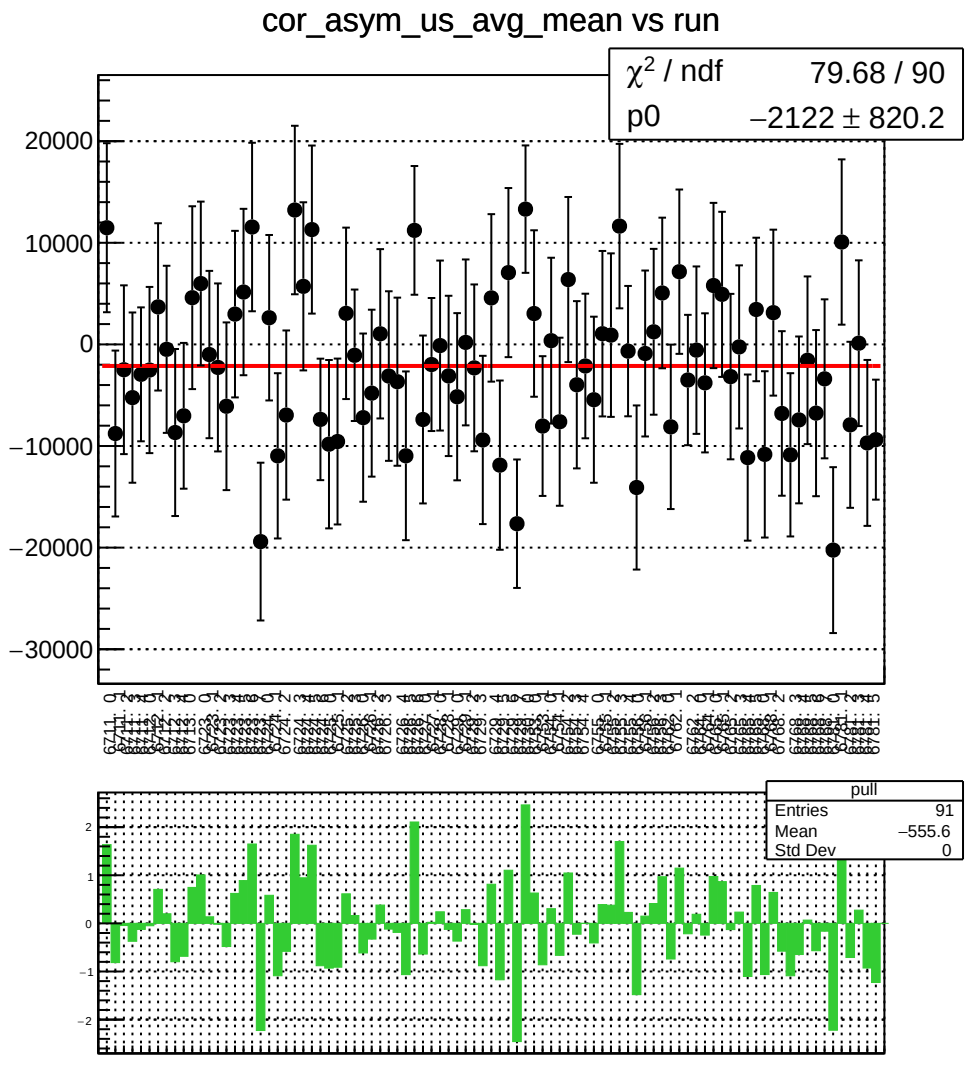

pull1D
Entries 91
Mean 0.004873
Std Dev 0.9357
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

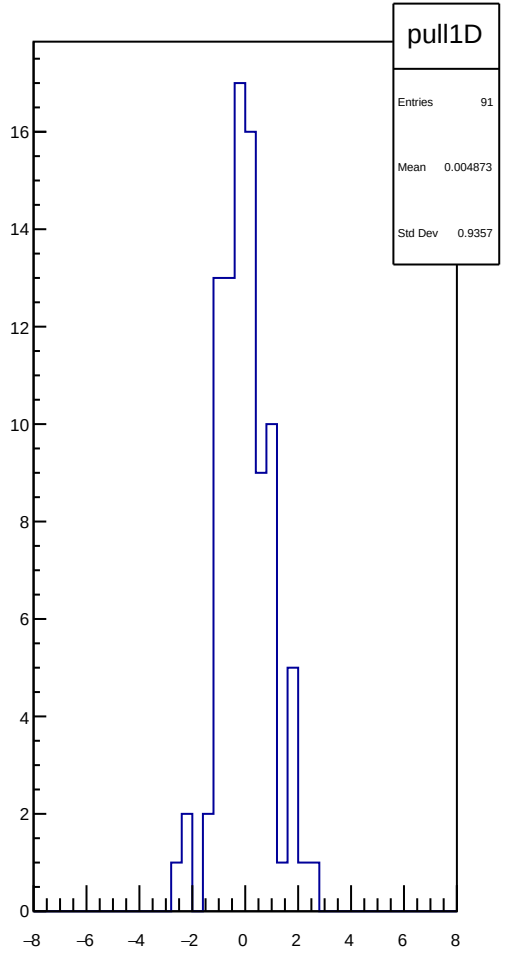

reg_asym_us_avg_rms vs run
χ² / ndf 172.5 / 90
p0 779 ± 0.58
810
800
790
780
770
760

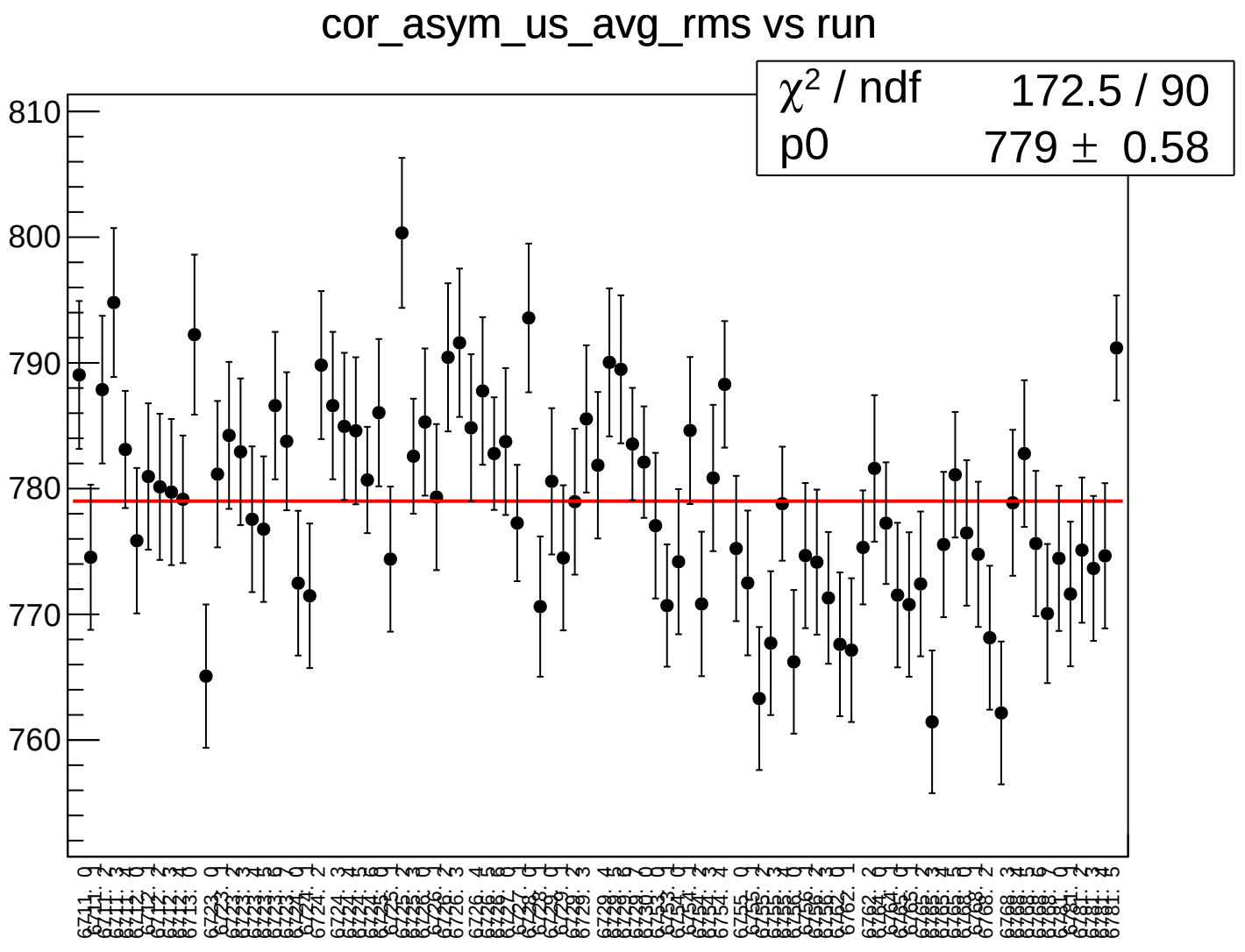

asym_us_avg_reg_correction_mean vs run
χ² / ndf 81.4 / 90
p0 −146.6 ± 1212
pull
Entries 91
Mean −69.92
Std Dev 0

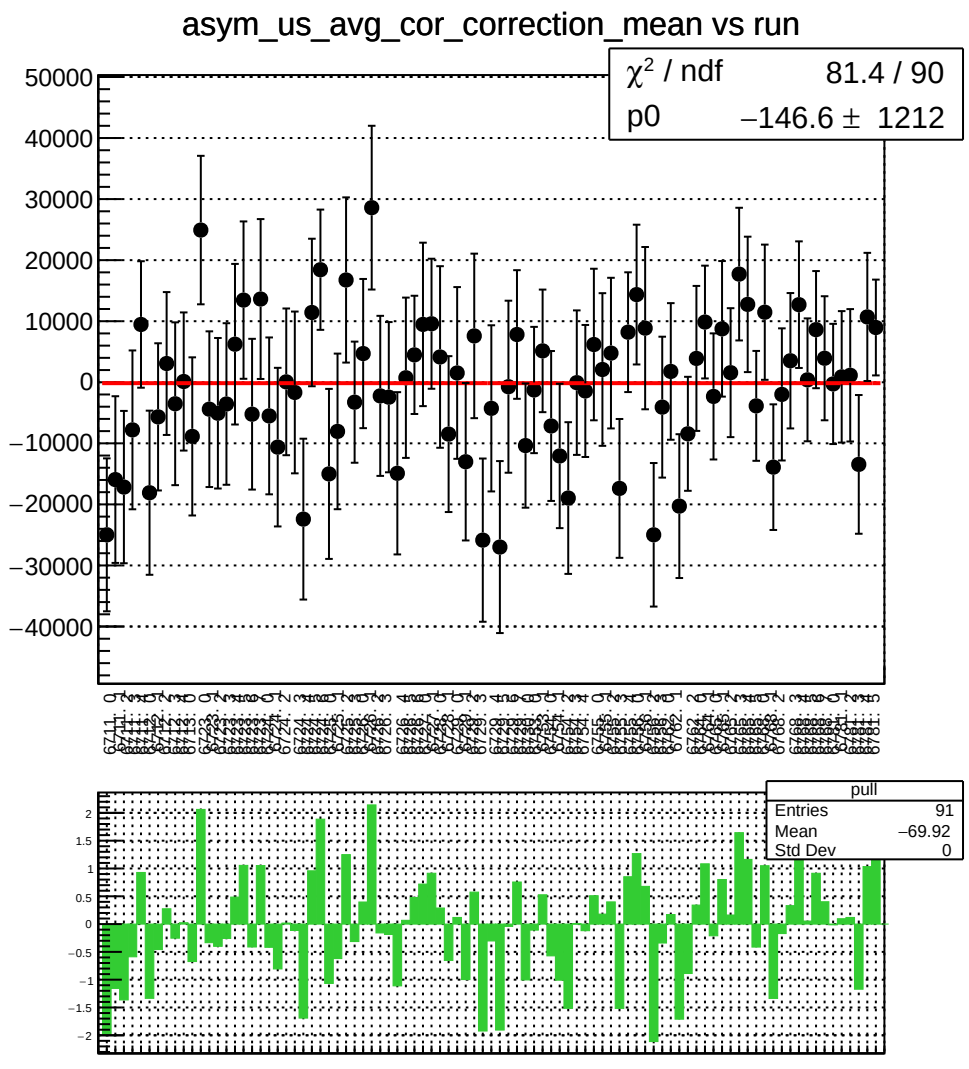

pull1D
Entries 91
Mean −0.03401
Std Dev 0.9452

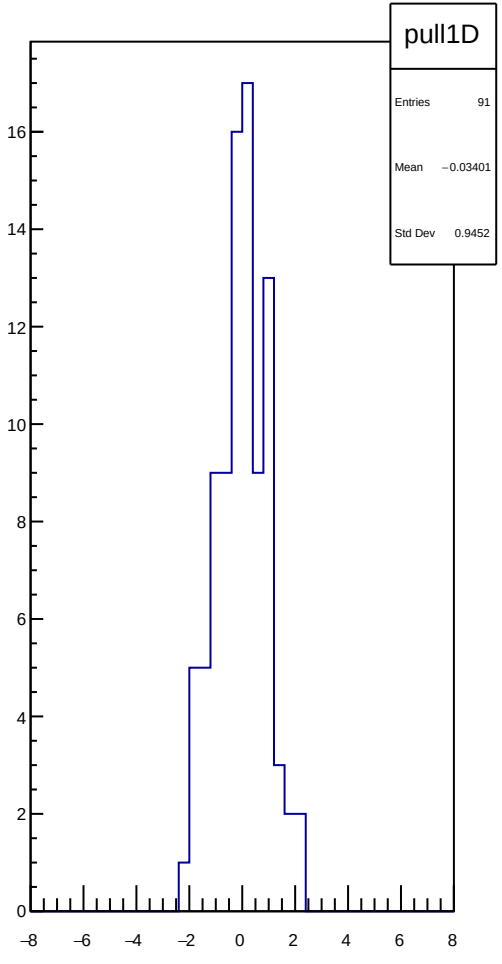

asym_us_avg_reg_correction_rms vs run
χ² / ndf 1.693e+04 / 90
p0 1146 ± 0.8568
1400
1300
1200
1100
1000
900

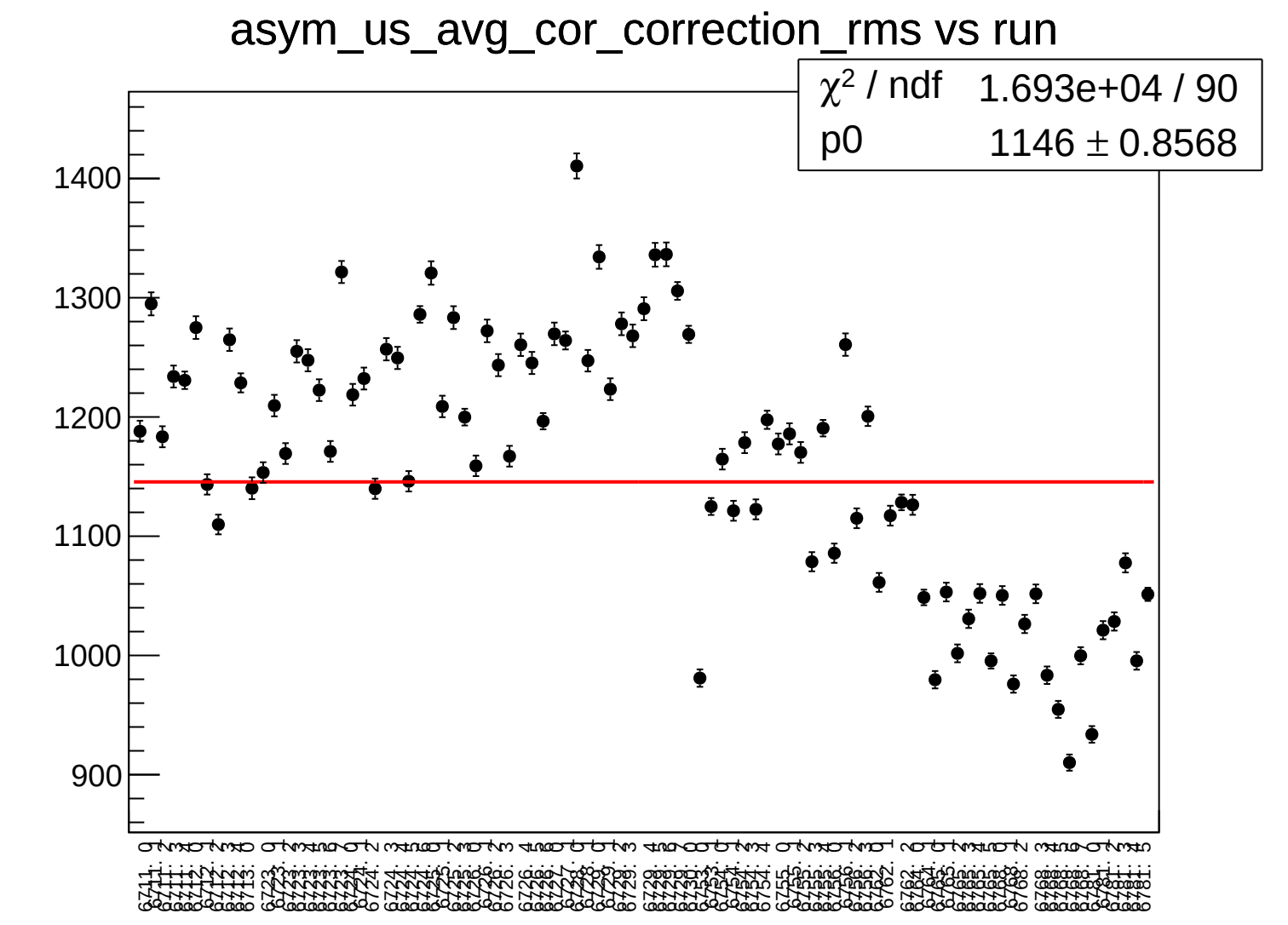

cor_asym_us_avg_mean vs run
χ² / ndf 79.68 / 90
p0 −2122 ± 820.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −555.6
Std Dev 0
2
1
0
−1
−2

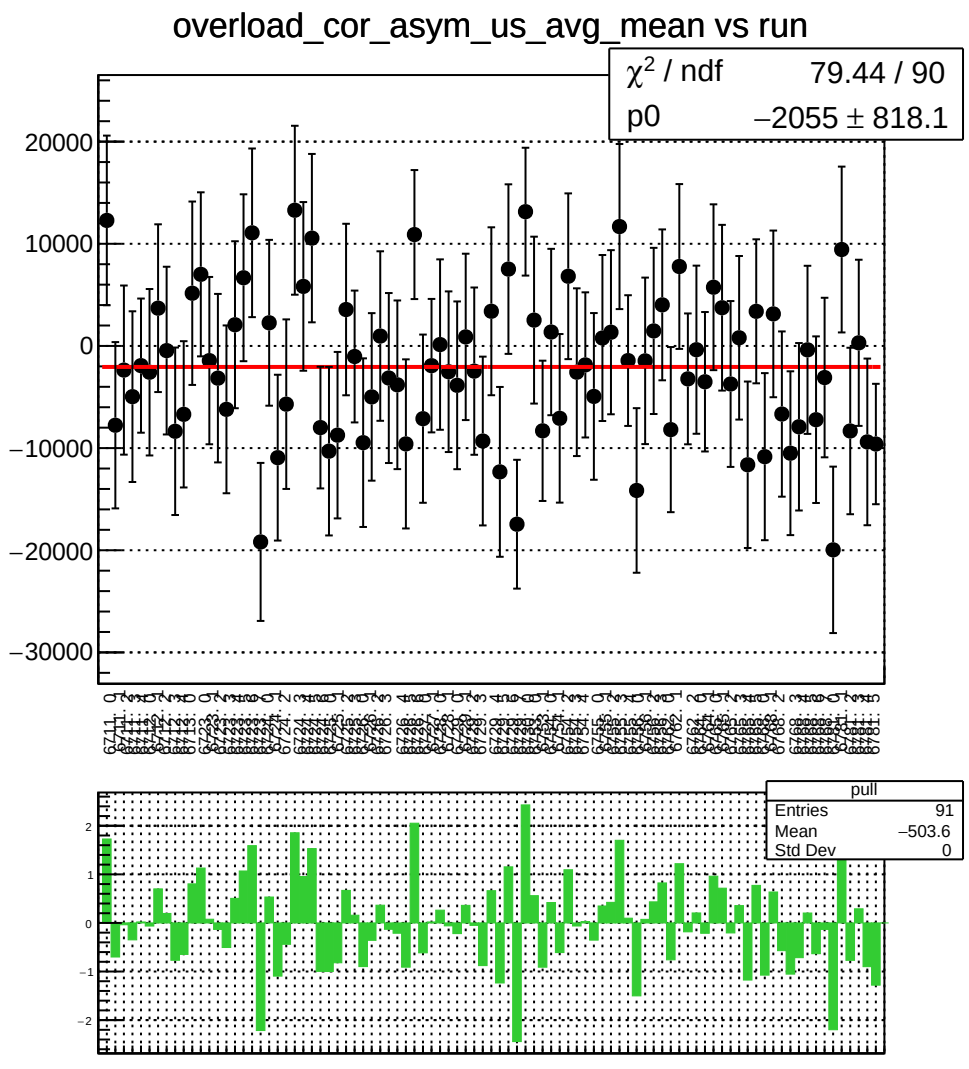

pull1D
Entries 91
Mean 0.004873
Std Dev 0.9357
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

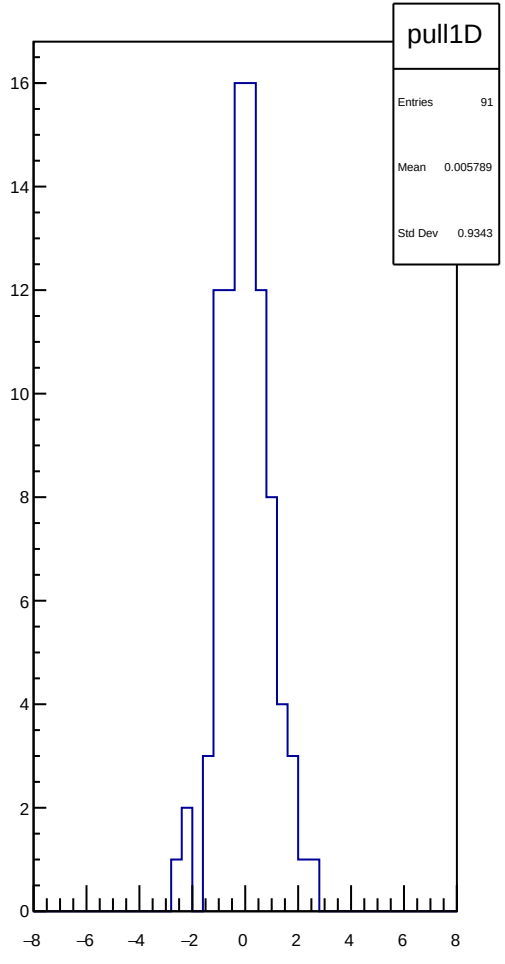

cor_asym_us_avg_rms vs run
χ² / ndf 172.5 / 90
p0 779 ± 0.58
810
800
790
780
770
760

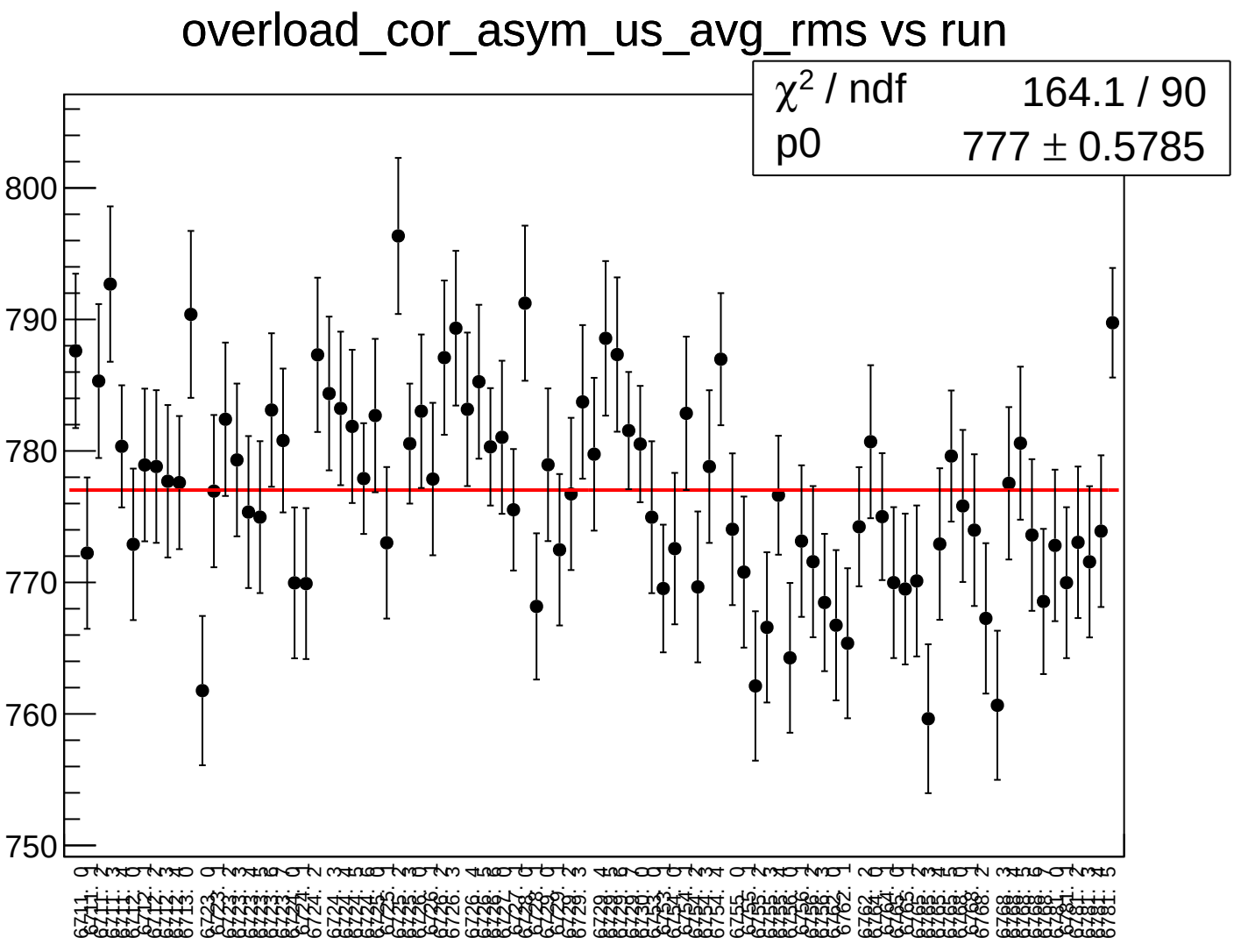

asym_us_avg_cor_correction_mean vs run
χ² / ndf 81.4 / 90
p0 −146.6 ± 1212
pull
Entries 91
Mean −69.92
Std Dev 0

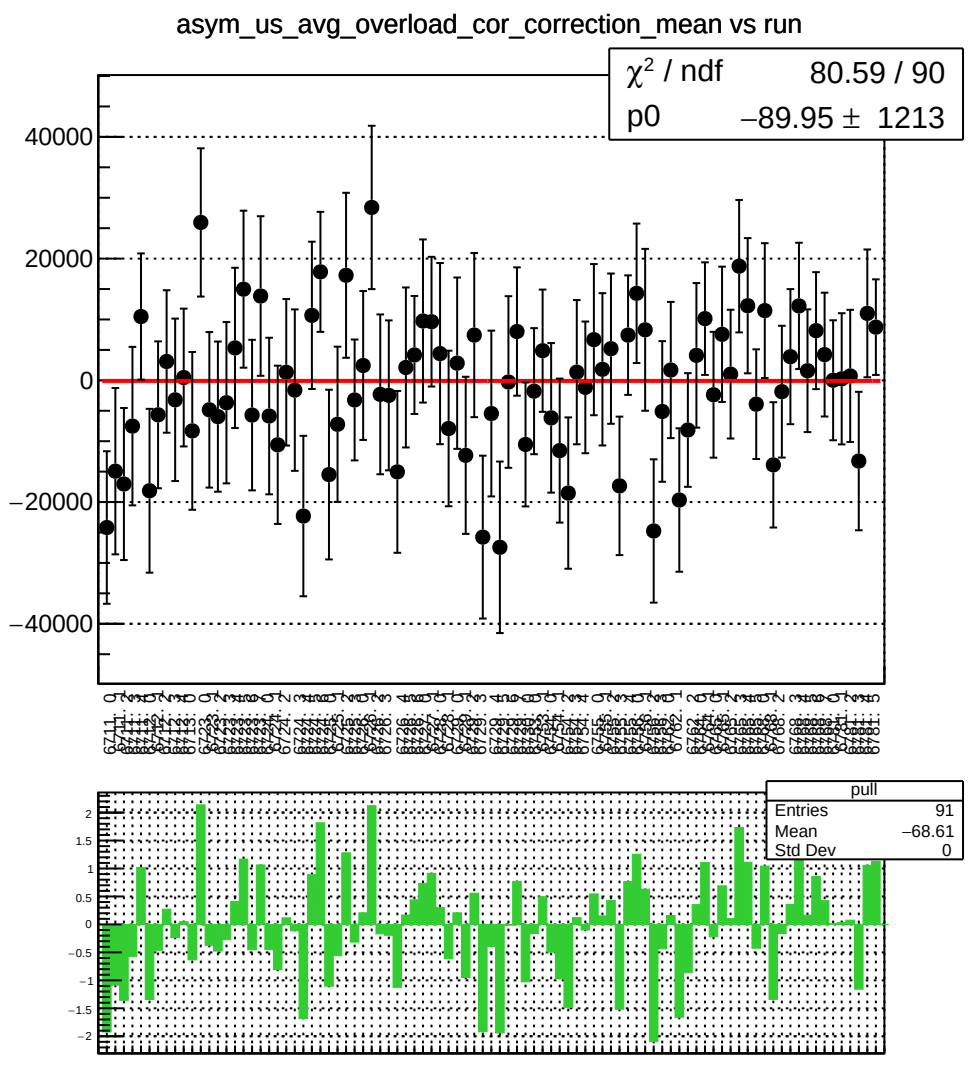

pull1D
Entries 91
Mean −0.03401
Std Dev 0.9452

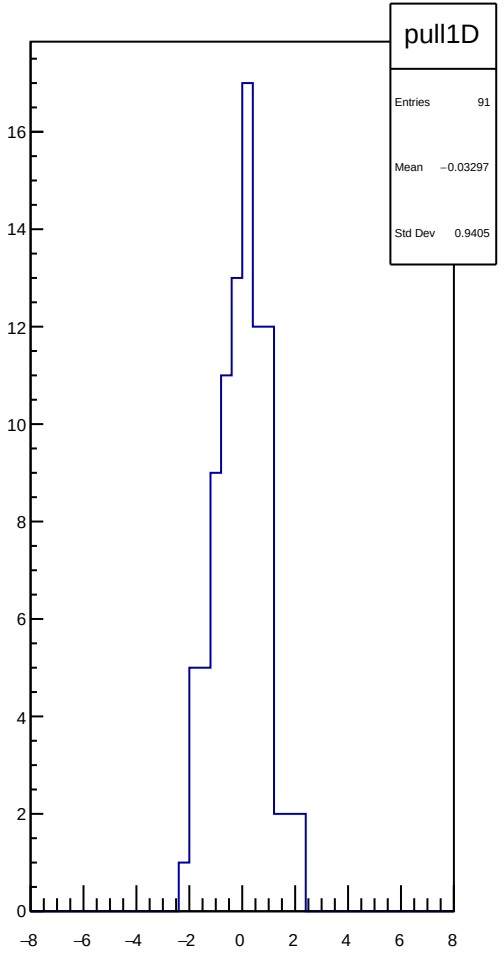

asym_us_avg_cor_correction_rms vs run
χ² / ndf 1.693e+04 / 90
p0 1146 ± 0.8568
1400
1300
1200
1100
1000
900


overload_cor_asym_us_avg_mean vs run
χ² / ndf 79.44 / 90
p0 −2055 ± 818.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −503.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.005789
Std Dev 0.9343
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


overload_cor_asym_us_avg_rms vs run
χ² / ndf 164.1 / 90
p0 777 ± 0.5785
800
790
780
770
760
750


asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 80.59 / 90
p0 −89.95 ± 1213
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −68.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 91
Mean −0.03297
Std Dev 0.9405
16
14
12
10
8
6
4
2
0
−8
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−4
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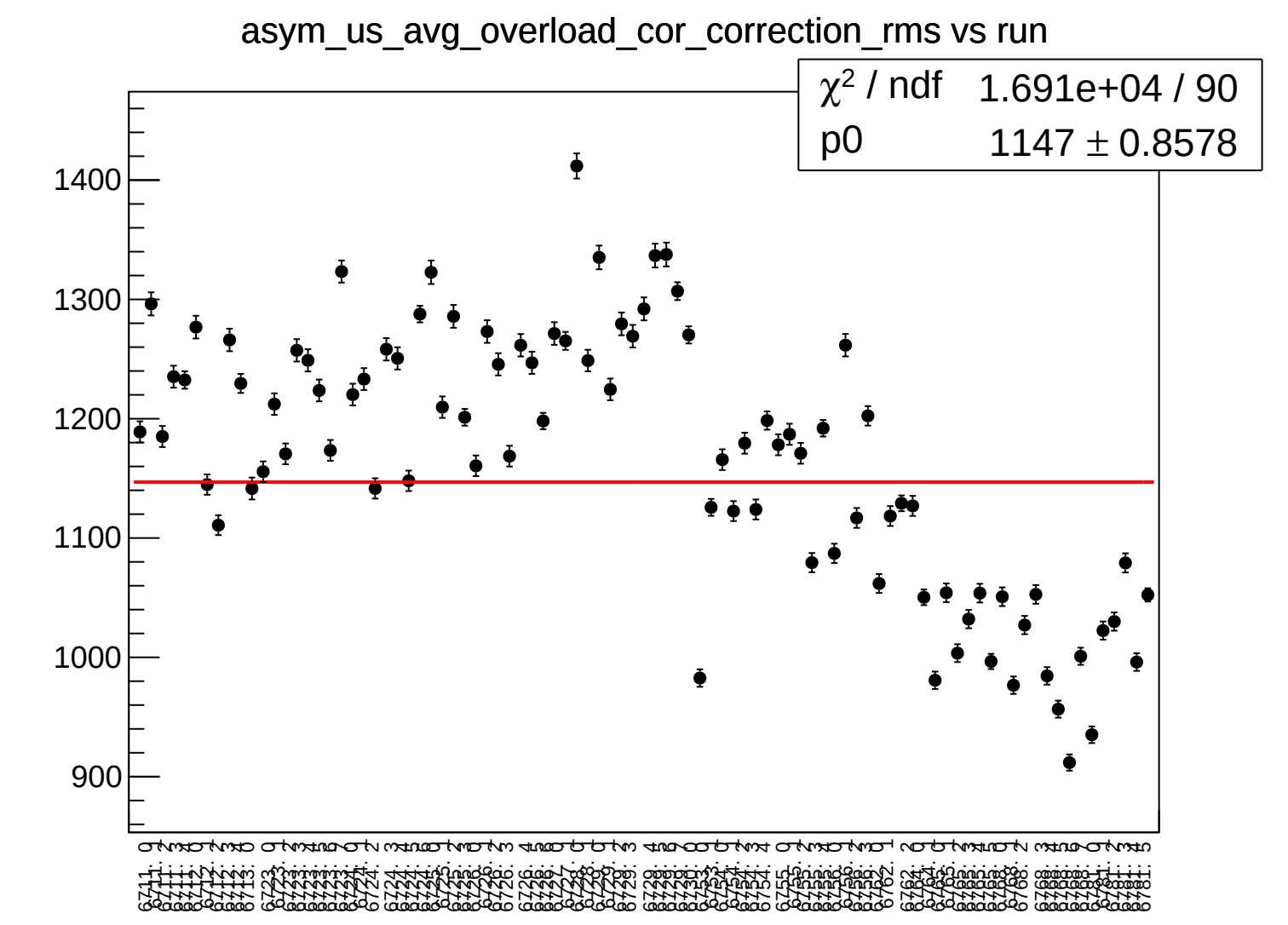
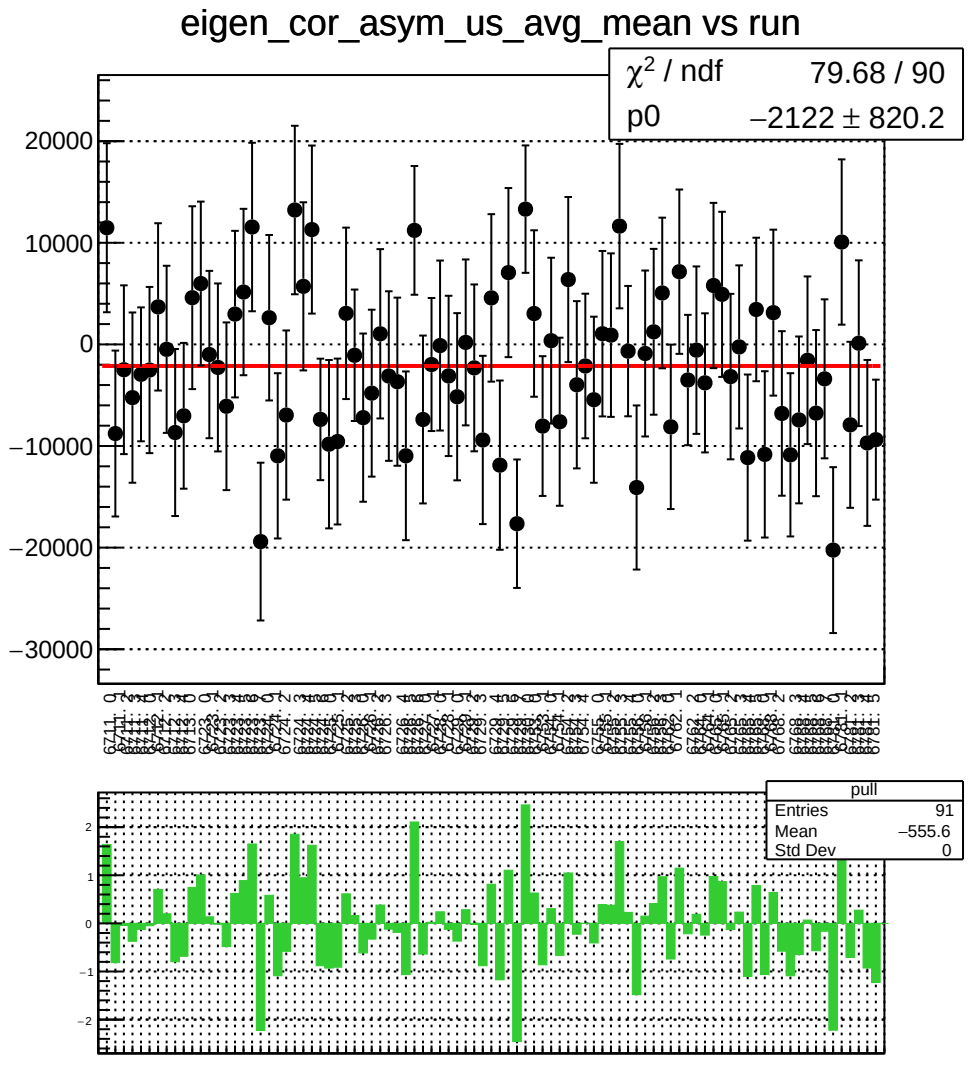
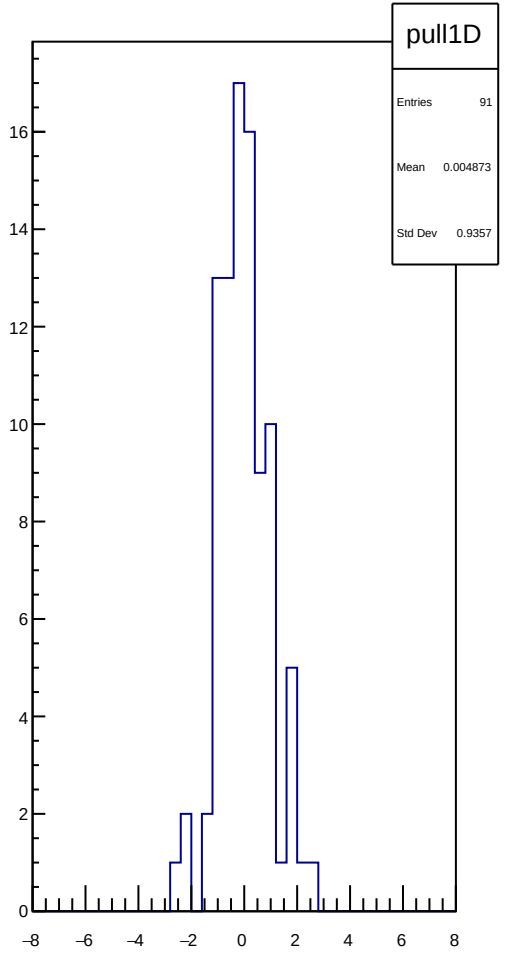
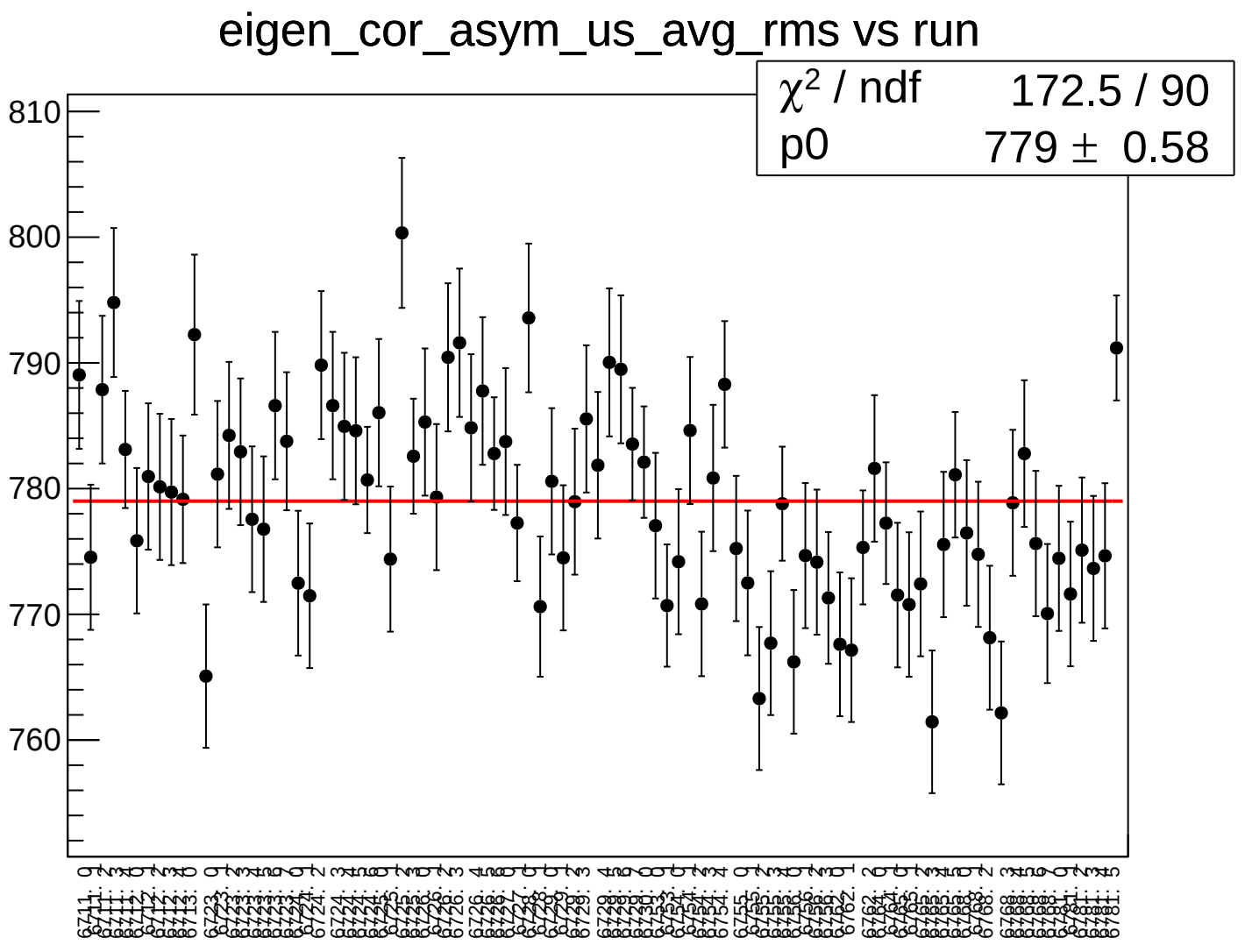
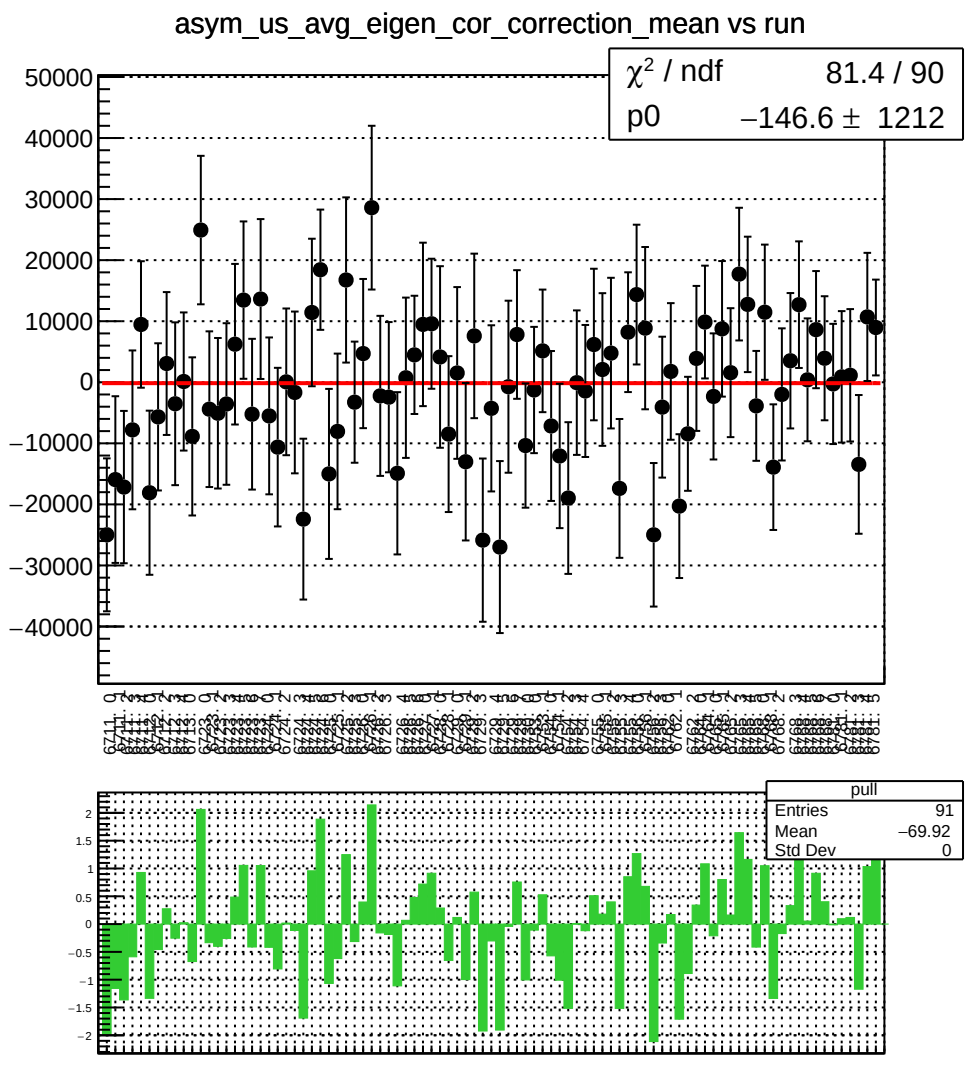
0
2
4
6
8

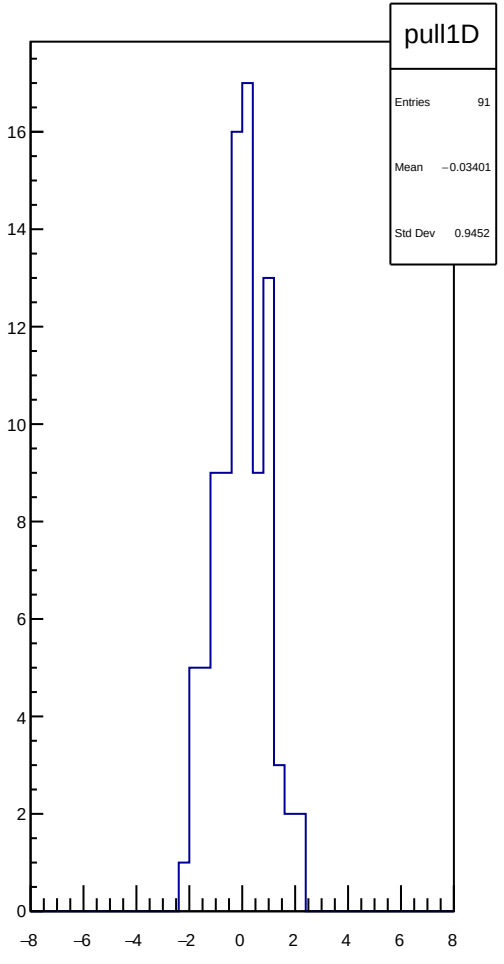

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 1.691e+04 / 90
p0 1147 ± 0.8578
1400
1300
1200
1100
1000
900

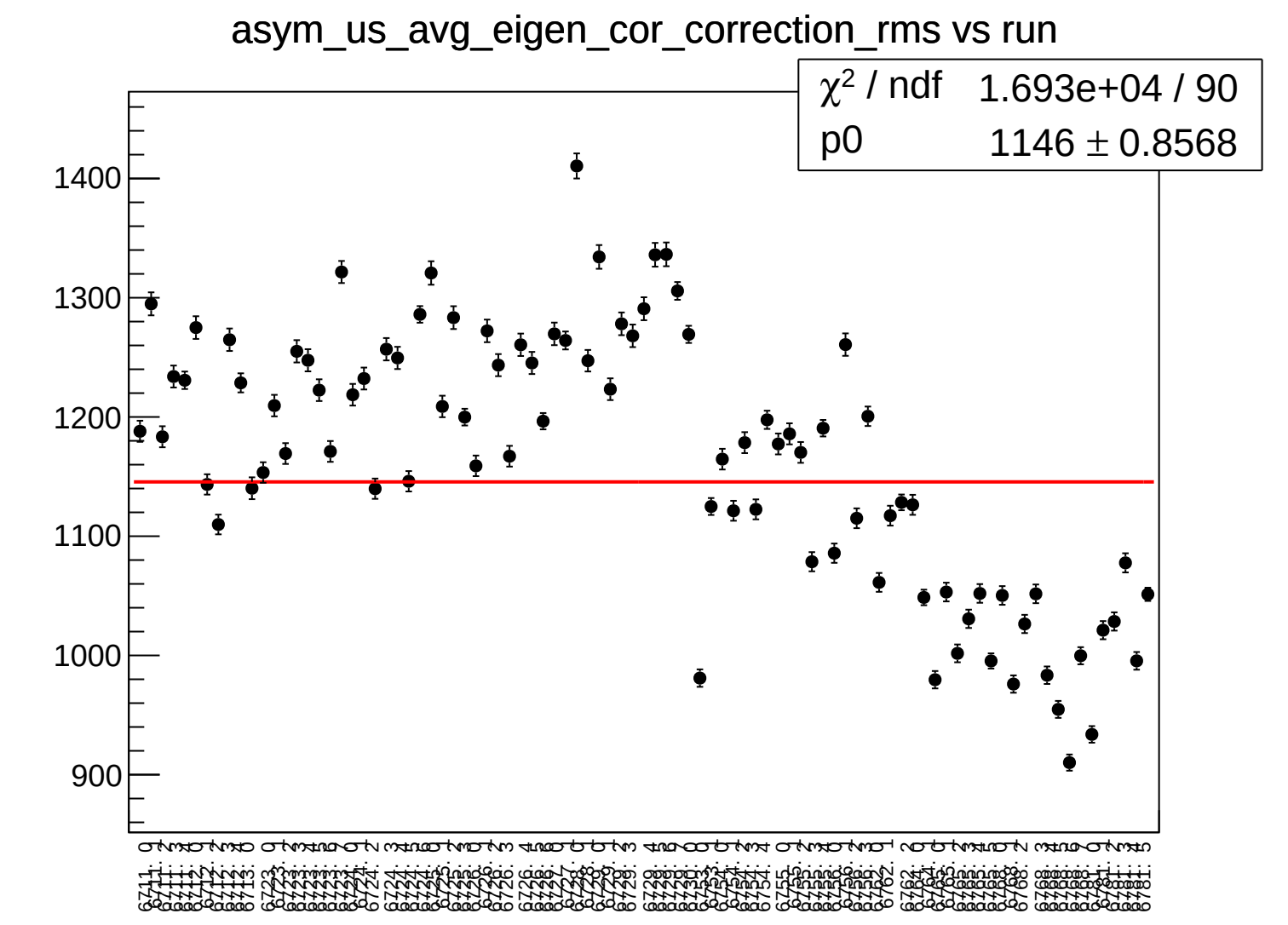

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 79.68 / 90
p0 −2122 ± 820.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −555.6
Std Dev 0
2
1
0
−1
−2

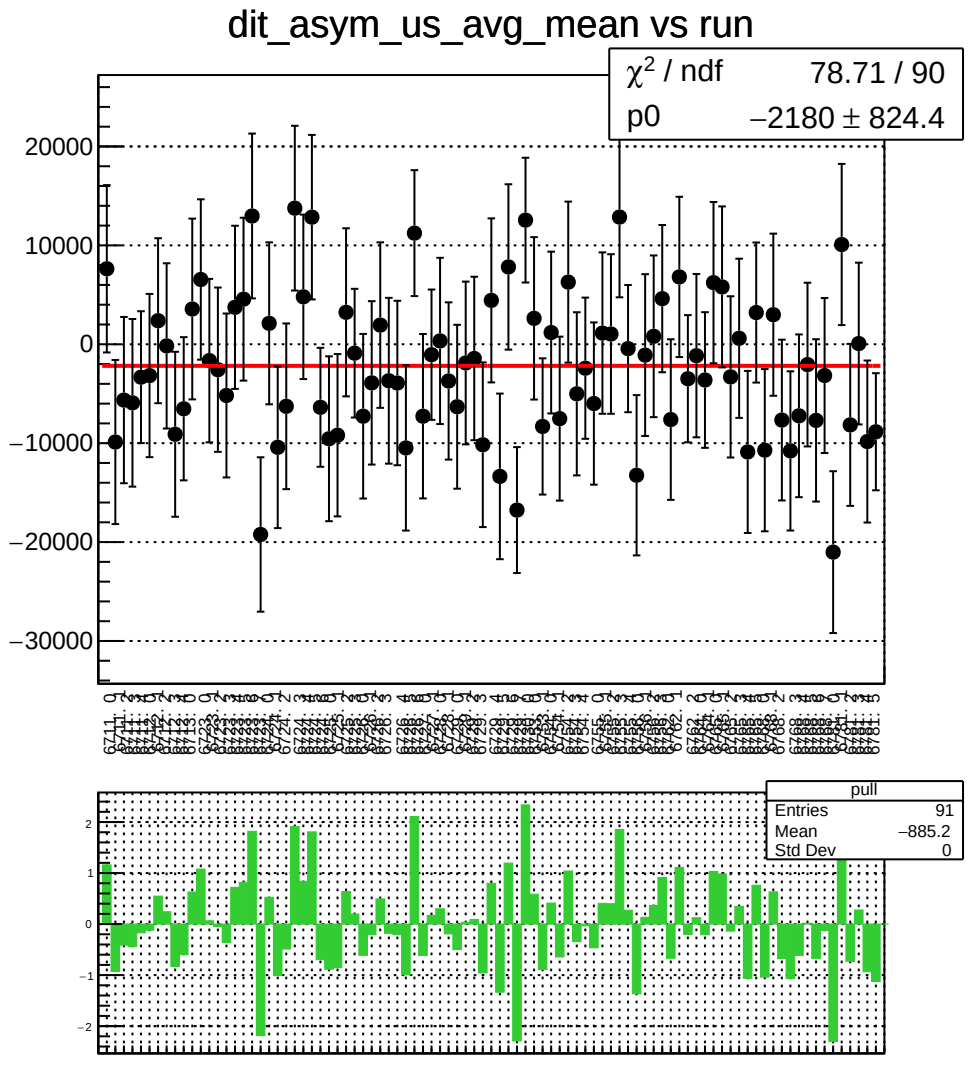

pull1D
Entries 91
Mean 0.004873
Std Dev 0.9357
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

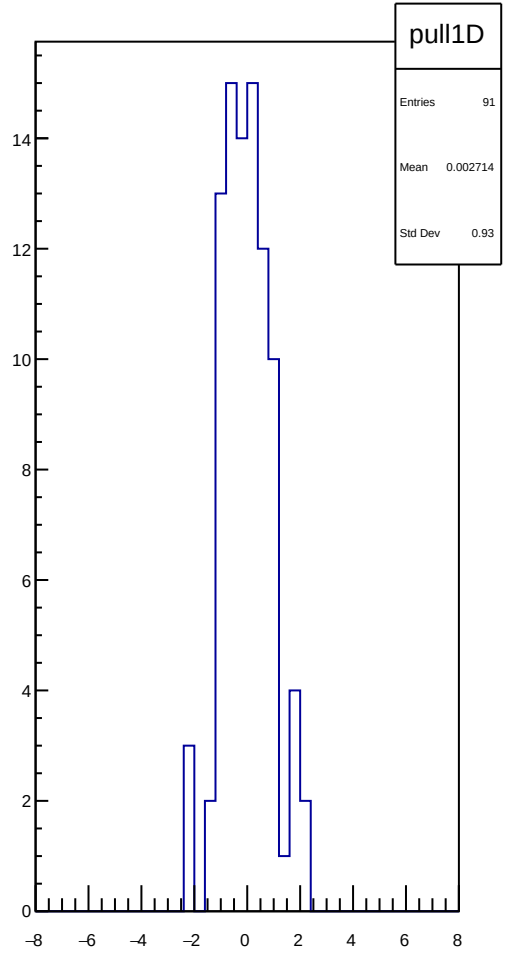

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 172.5 / 90
p0 779 ± 0.58
810
800
790
780
770
760

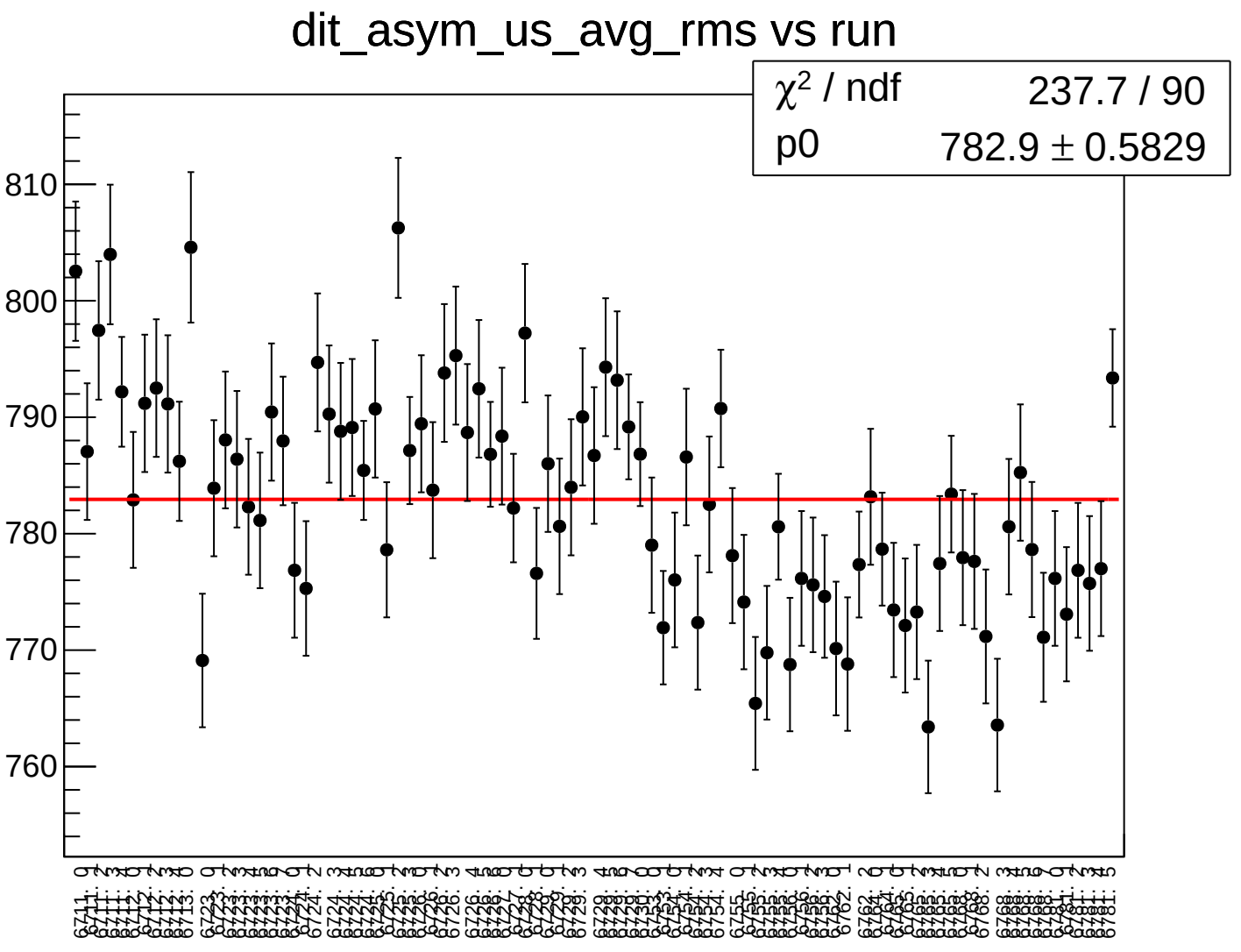

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.4 / 90
p0 −146.6 ± 1212
pull
Entries 91
Mean −69.92
Std Dev 0

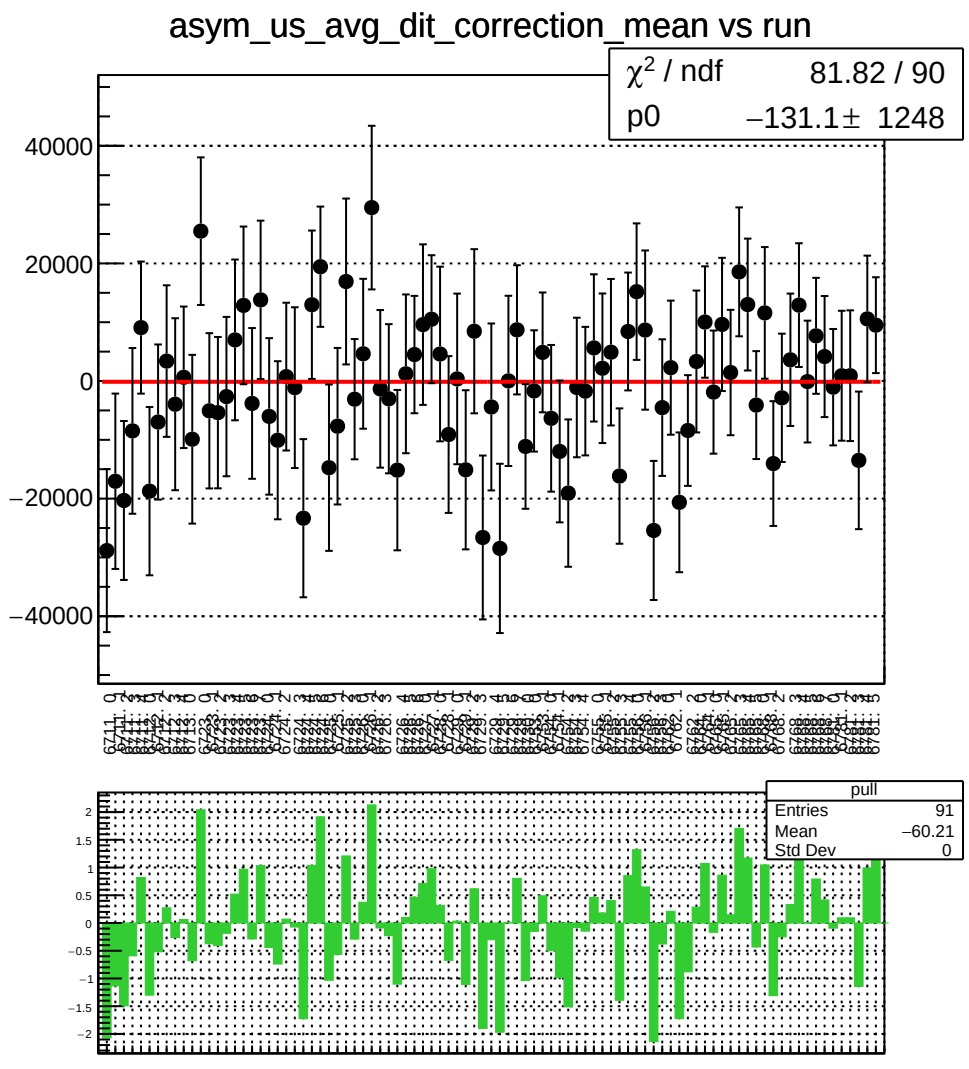

pull1D
Entries 91
Mean −0.03401
Std Dev 0.9452

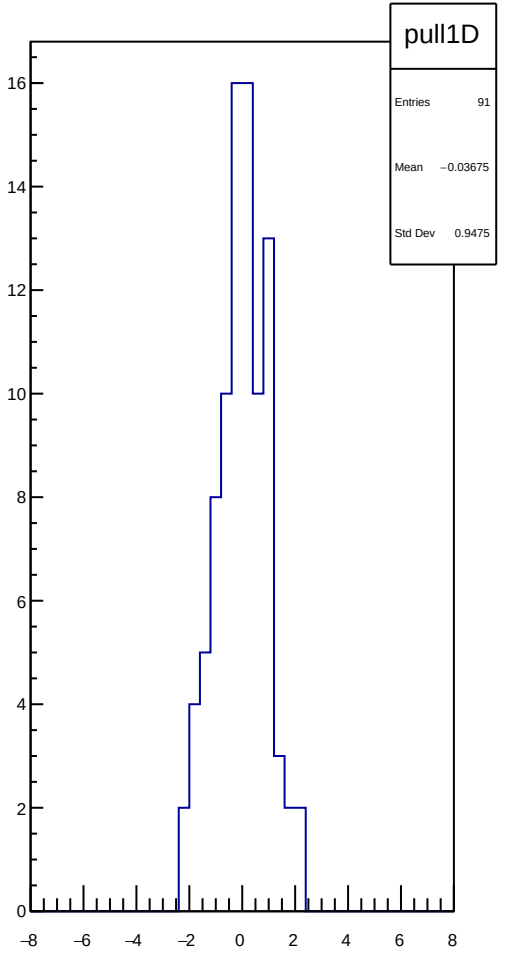

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.693e+04 / 90
p0 1146 ± 0.8568
1400
1300
1200
1100
1000
900

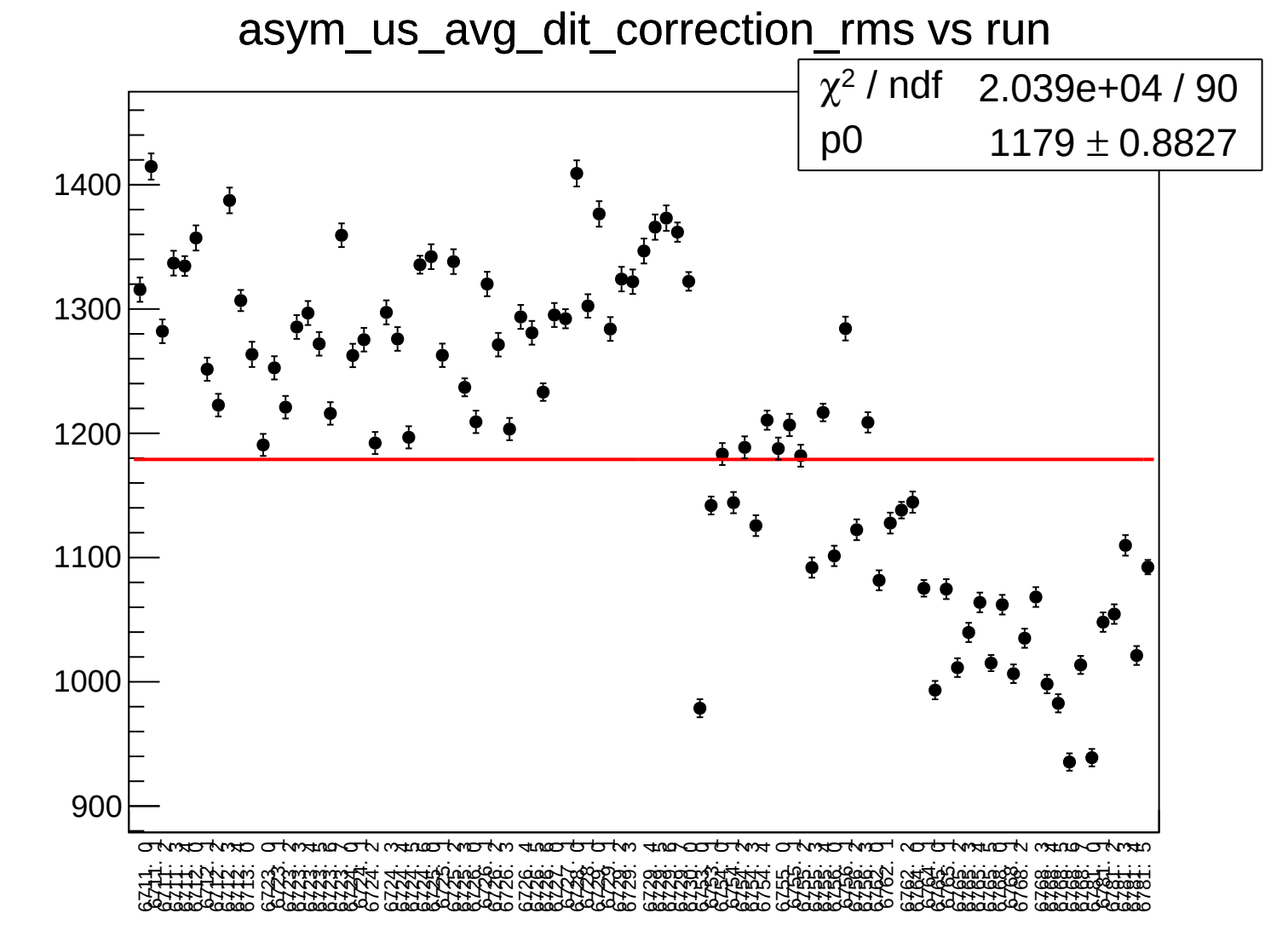

dit_asym_us_avg_mean vs run
χ² / ndf 78.71 / 90
p0 −2180 ± 824.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −885.2
Std Dev 0
2
1
0
−1
−2

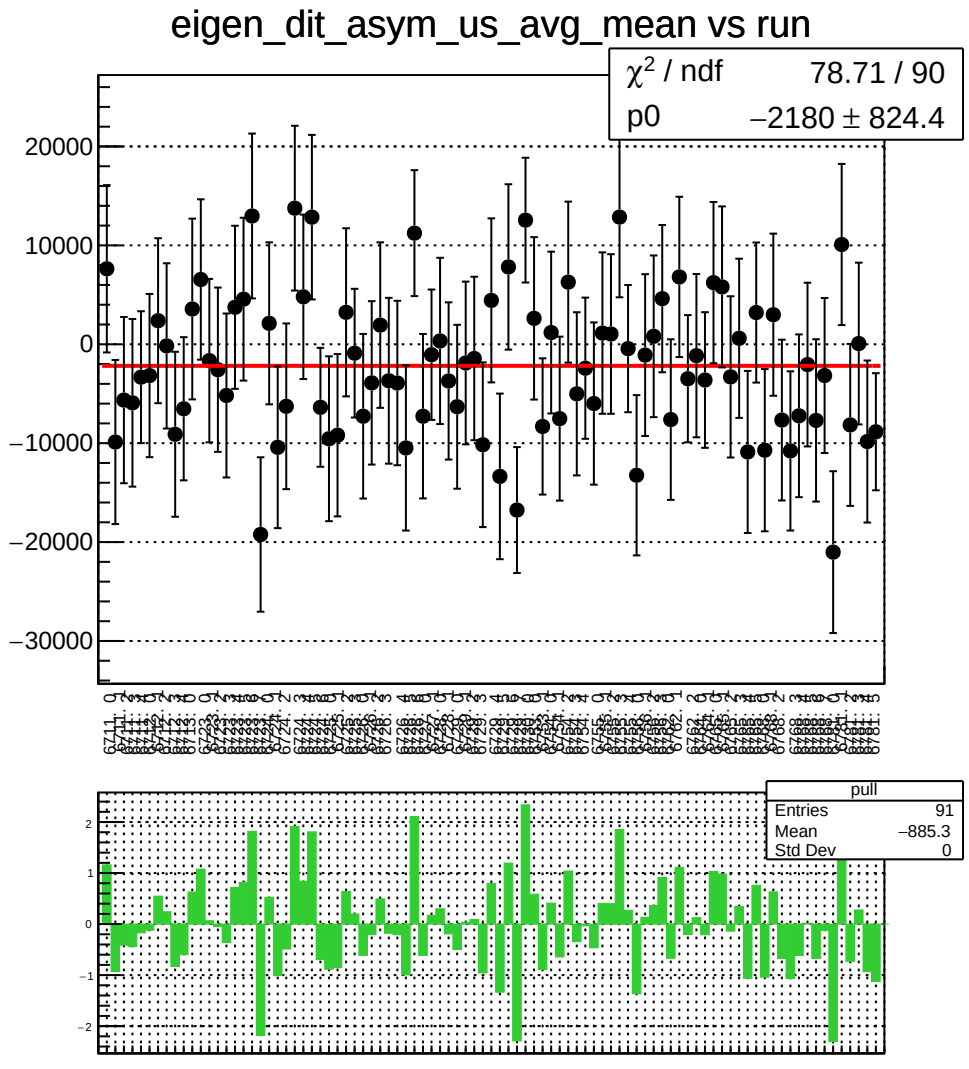

pull1D
Entries 91
Mean 0.002714
Std Dev 0.93
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

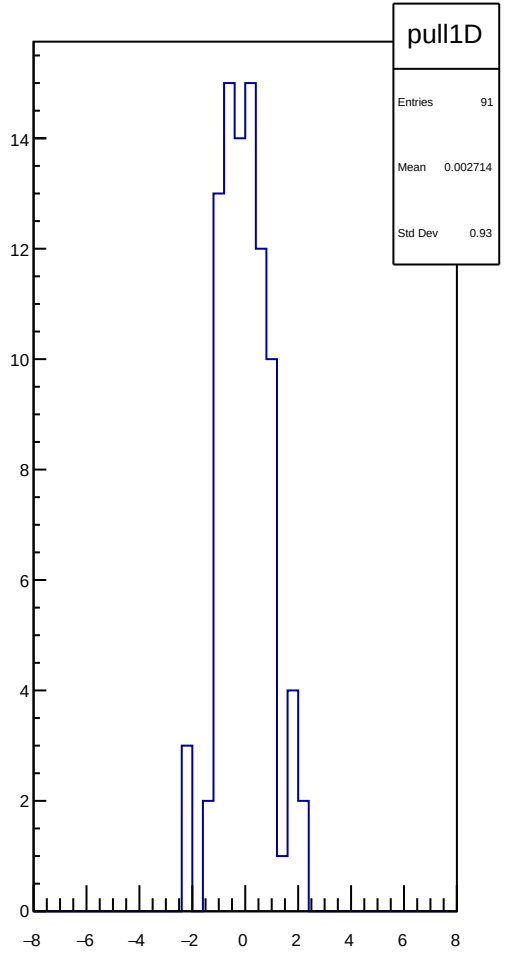

dit_asym_us_avg_rms vs run
χ² / ndf 237.7 / 90
p0 782.9 ± 0.5829
810
800
790
780
770
760

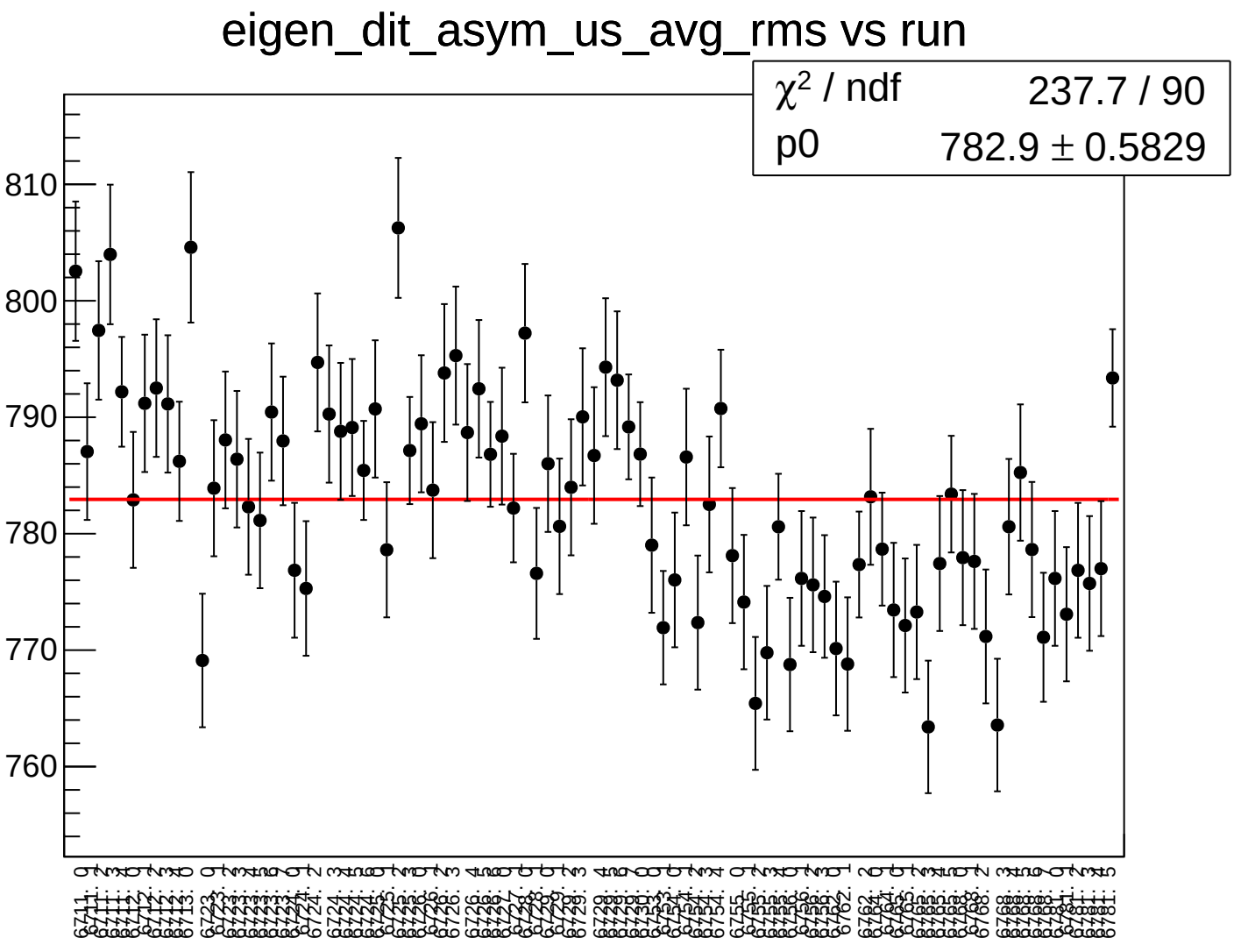

asym_us_avg_dit_correction_mean vs run
χ² / ndf 81.82 / 90
p0 −131.1± 1248
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −60.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

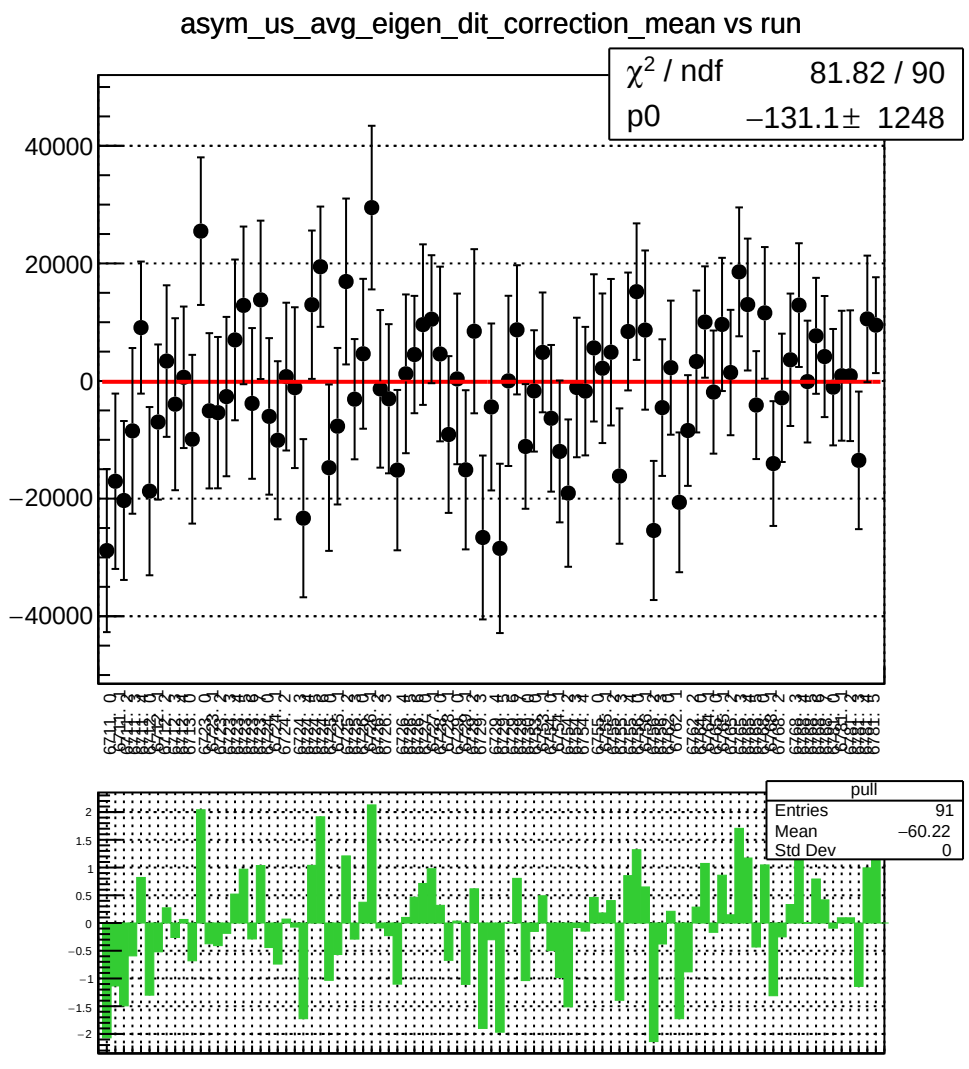

pull1D
Entries 91
Mean −0.03675
Std Dev 0.9475
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

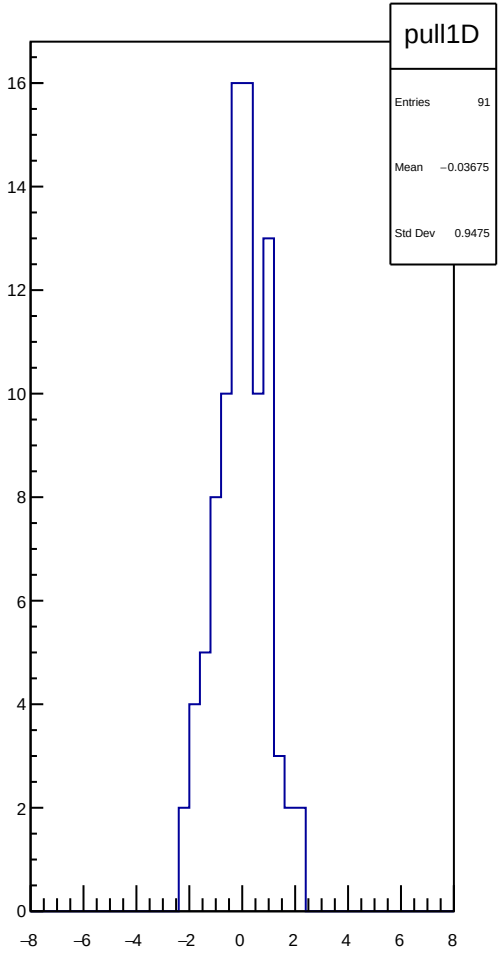

asym_us_avg_dit_correction_rms vs run
χ² / ndf 2.039e+04 / 90
p0 1179 ± 0.8827
1400
1300
1200
1100
1000
900


eigen_dit_asym_us_avg_mean vs run
χ² / ndf 78.71 / 90
p0 −2180 ± 824.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −885.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.002714
Std Dev 0.93
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_avg_rms vs run
χ² / ndf 237.7 / 90
p0 782.9 ± 0.5829
810
800
790
780
770
760


asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 81.82 / 90
p0 −131.1± 1248
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −60.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 91
Mean −0.03675
Std Dev 0.9475
16
14
12
10
8
6
4
2
0
−8
−6
−4
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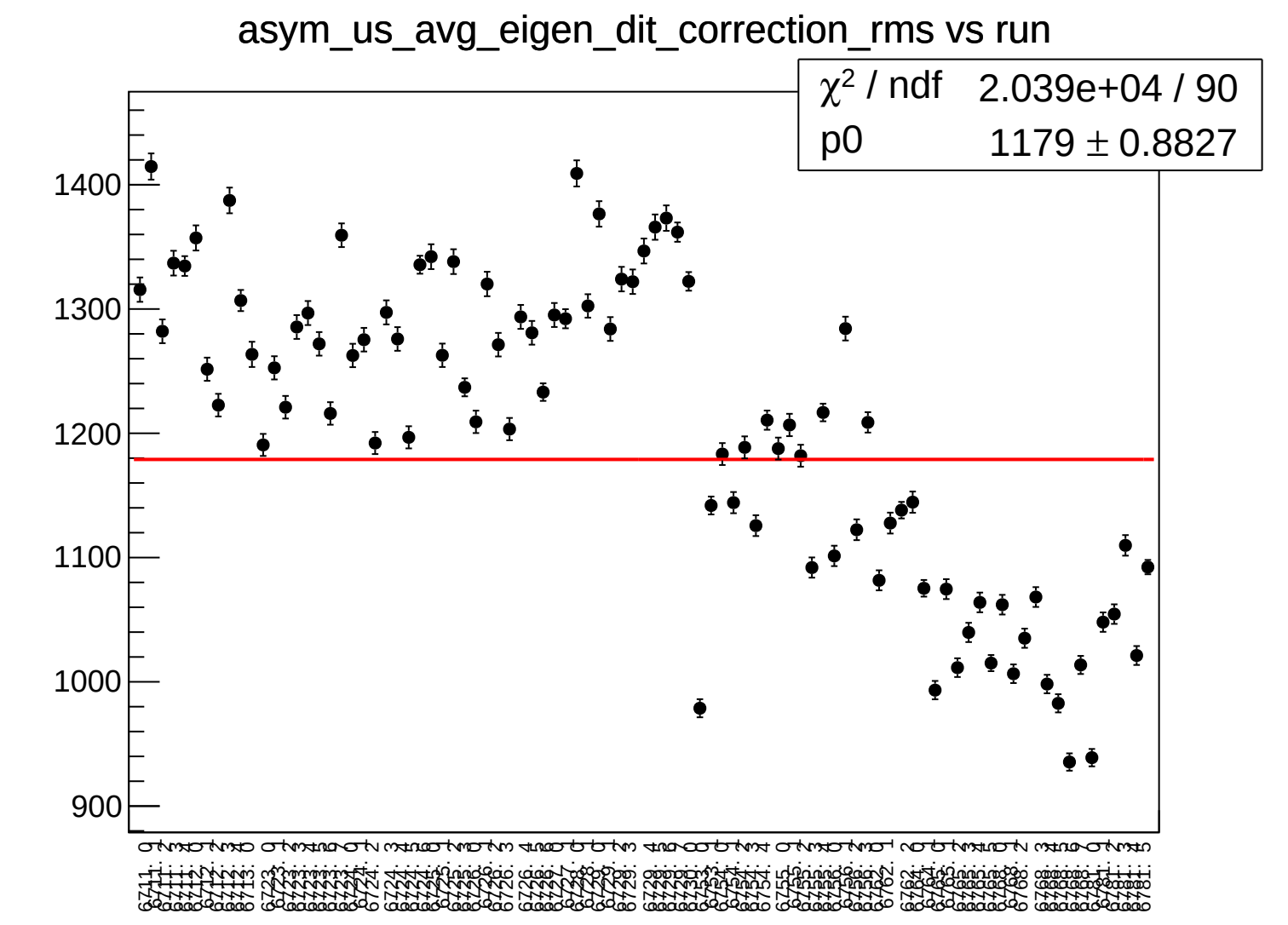
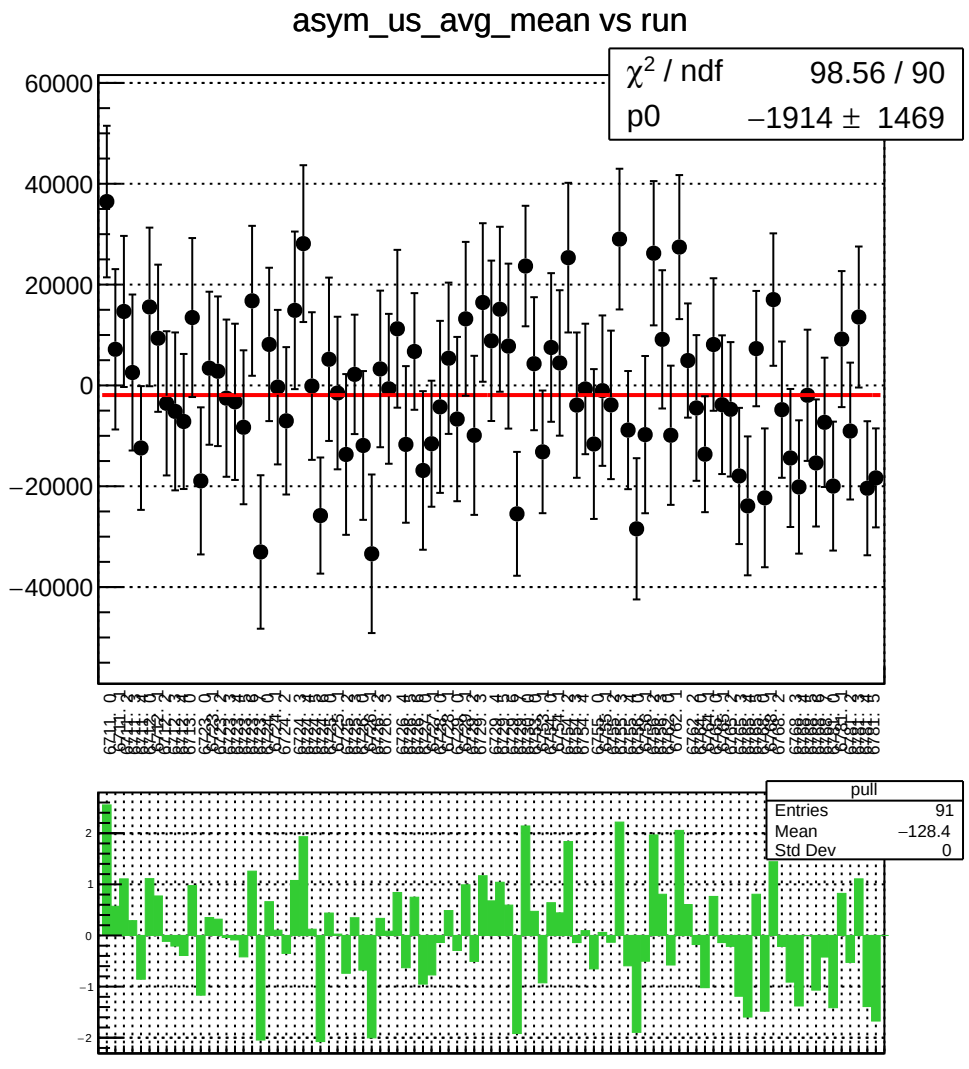
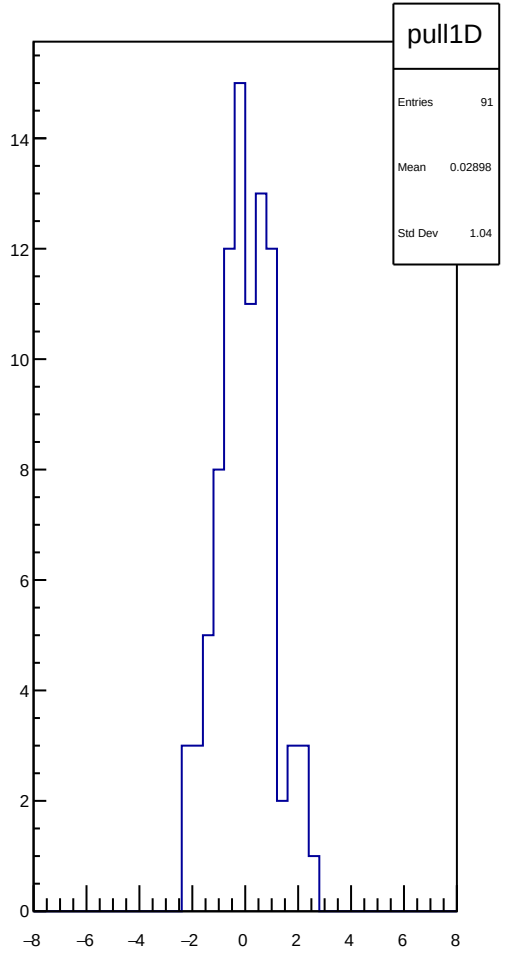
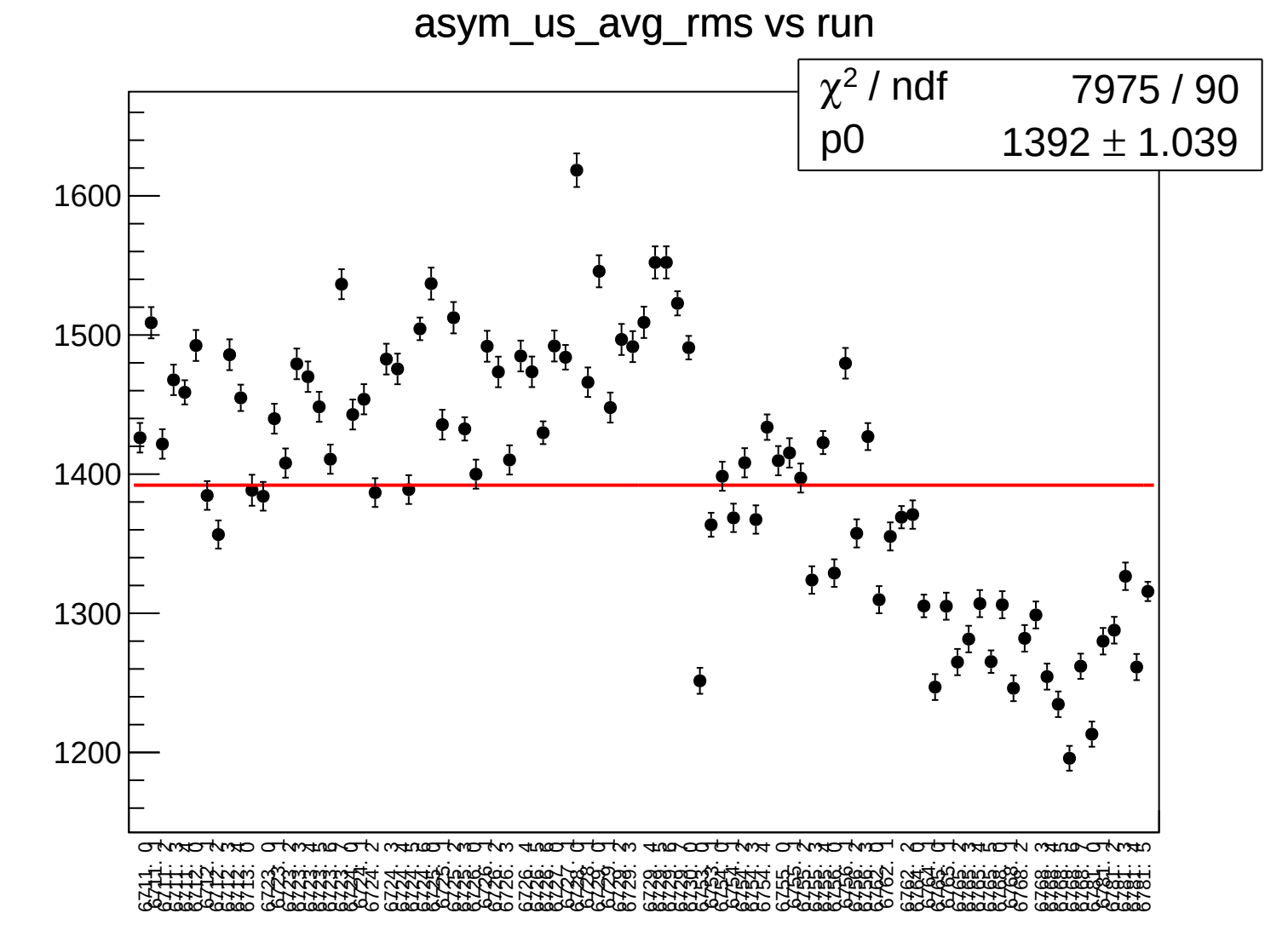
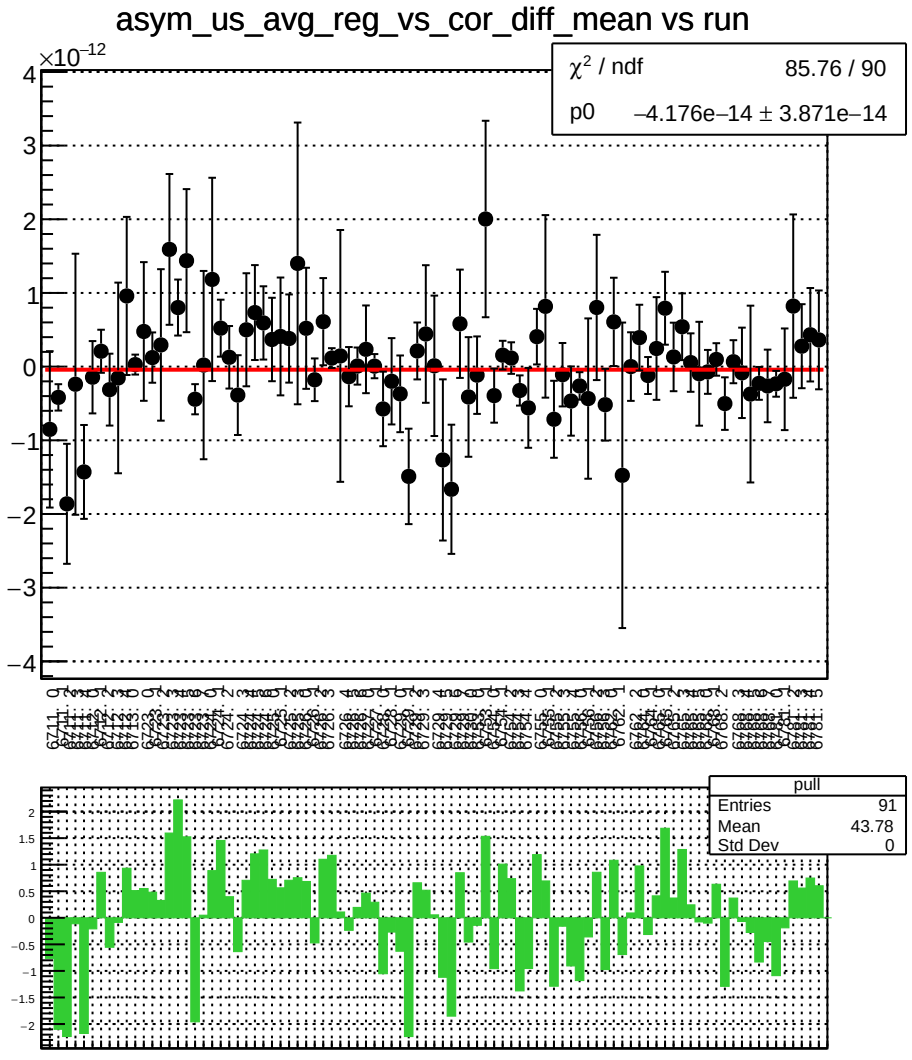
0
2
4
6
8

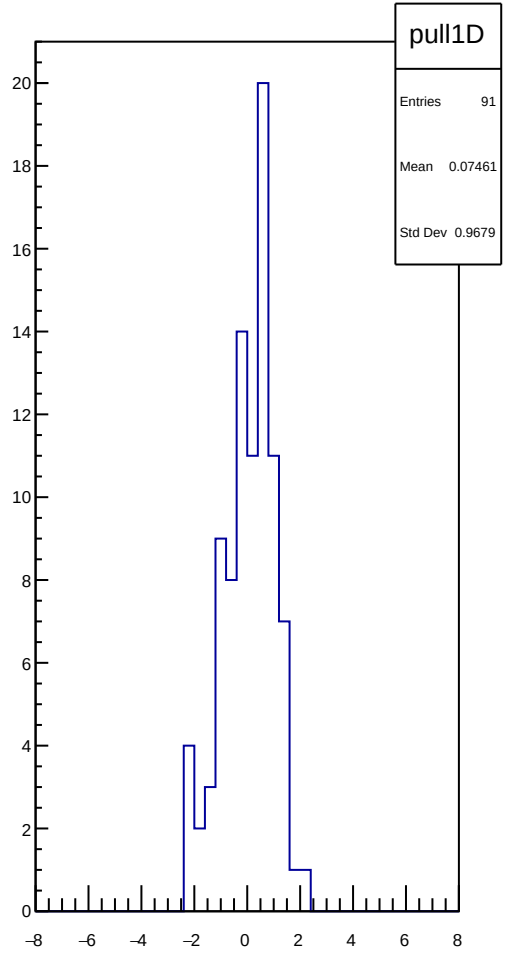

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.039e+04 / 90
p0 1179 ± 0.8827
1400
1300
1200
1100
1000
900

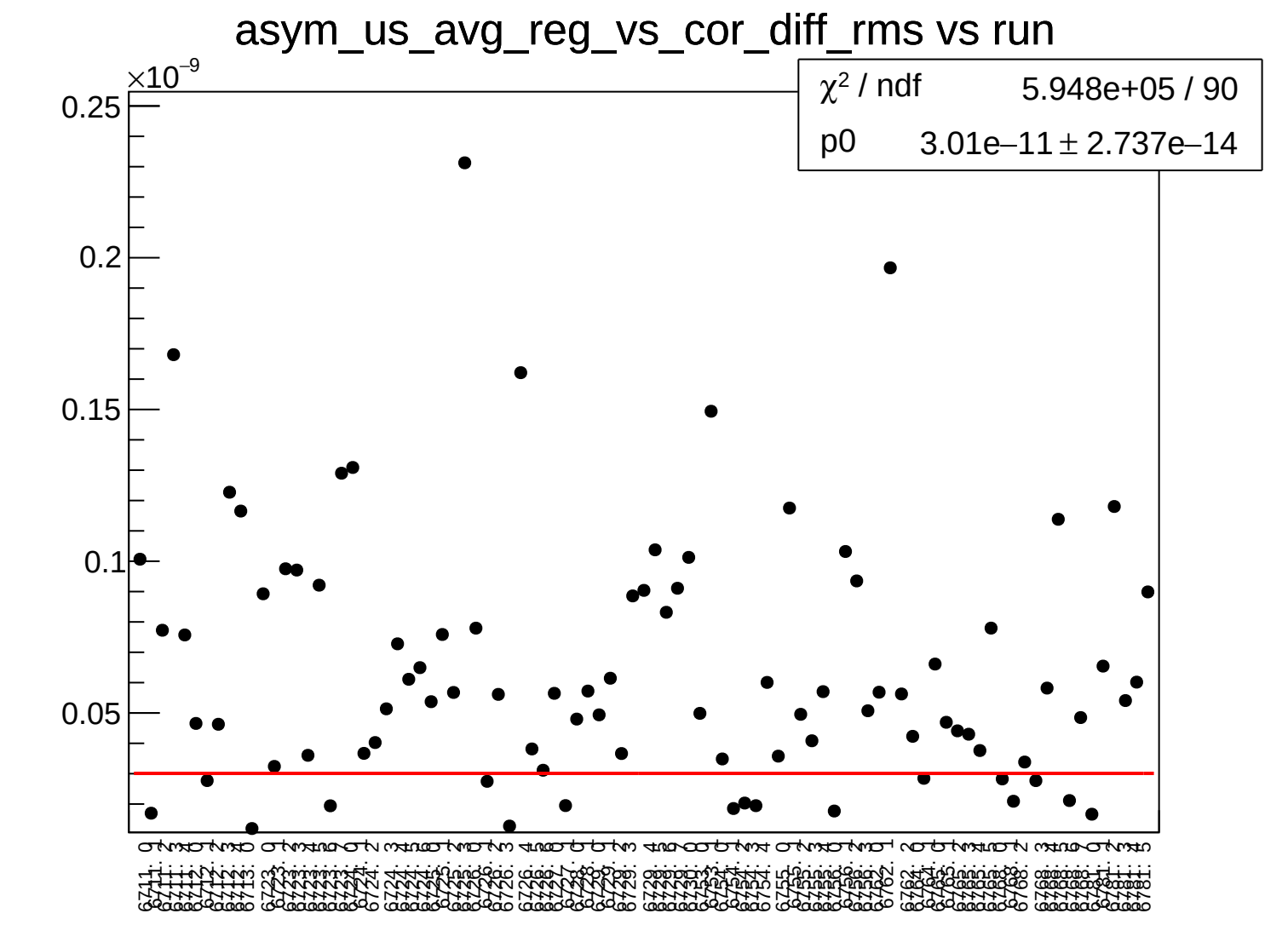

asym_us_avg_mean vs run
χ² / ndf 98.56 / 90
p0 −1914 ± 1469
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −128.4
Std Dev 0
2
1
0
−1
−2

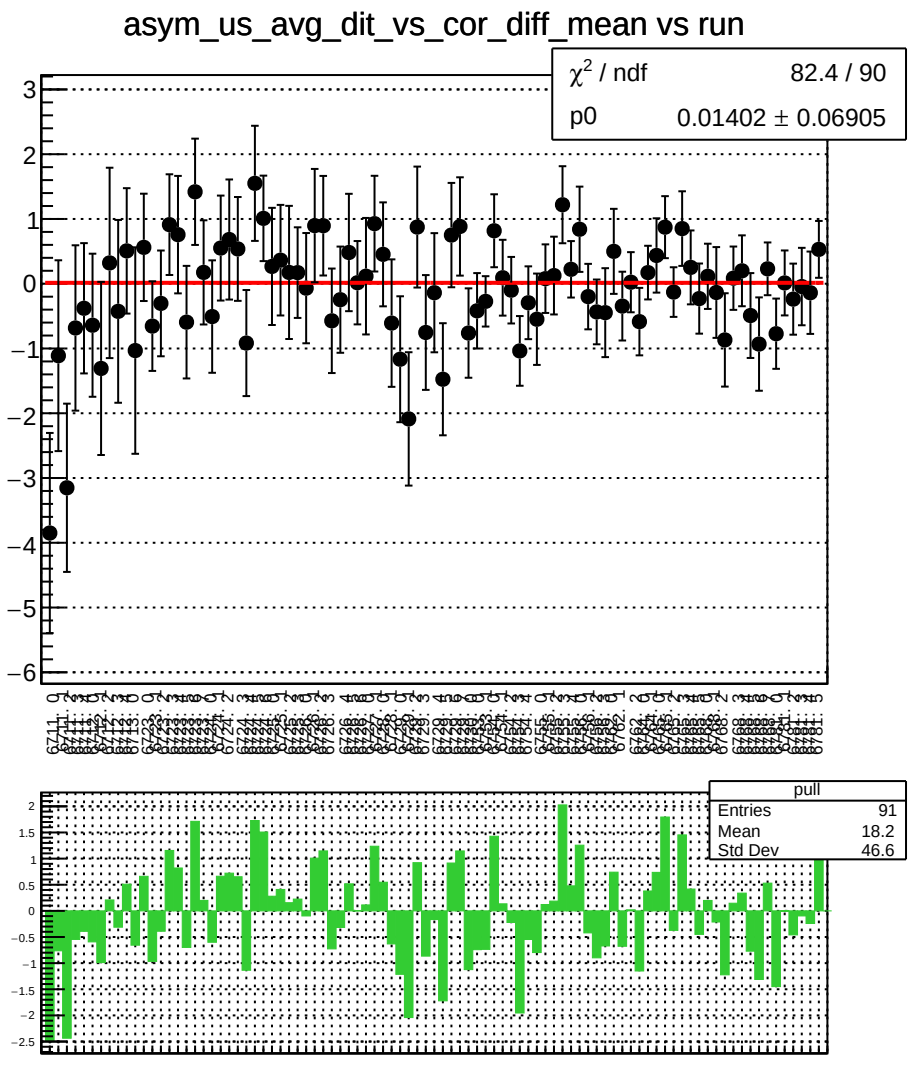

pull1D
Entries 91
Mean 0.02898
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

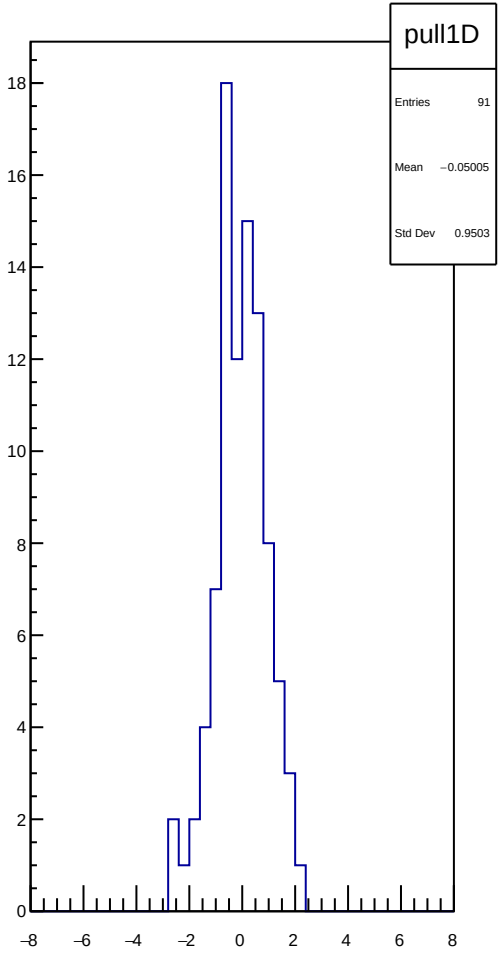

asym_us_avg_rms vs run
χ^2 / ndf 7975 / 90
p0 1392 ± 1.039
1600
1500
1400
1300
1200

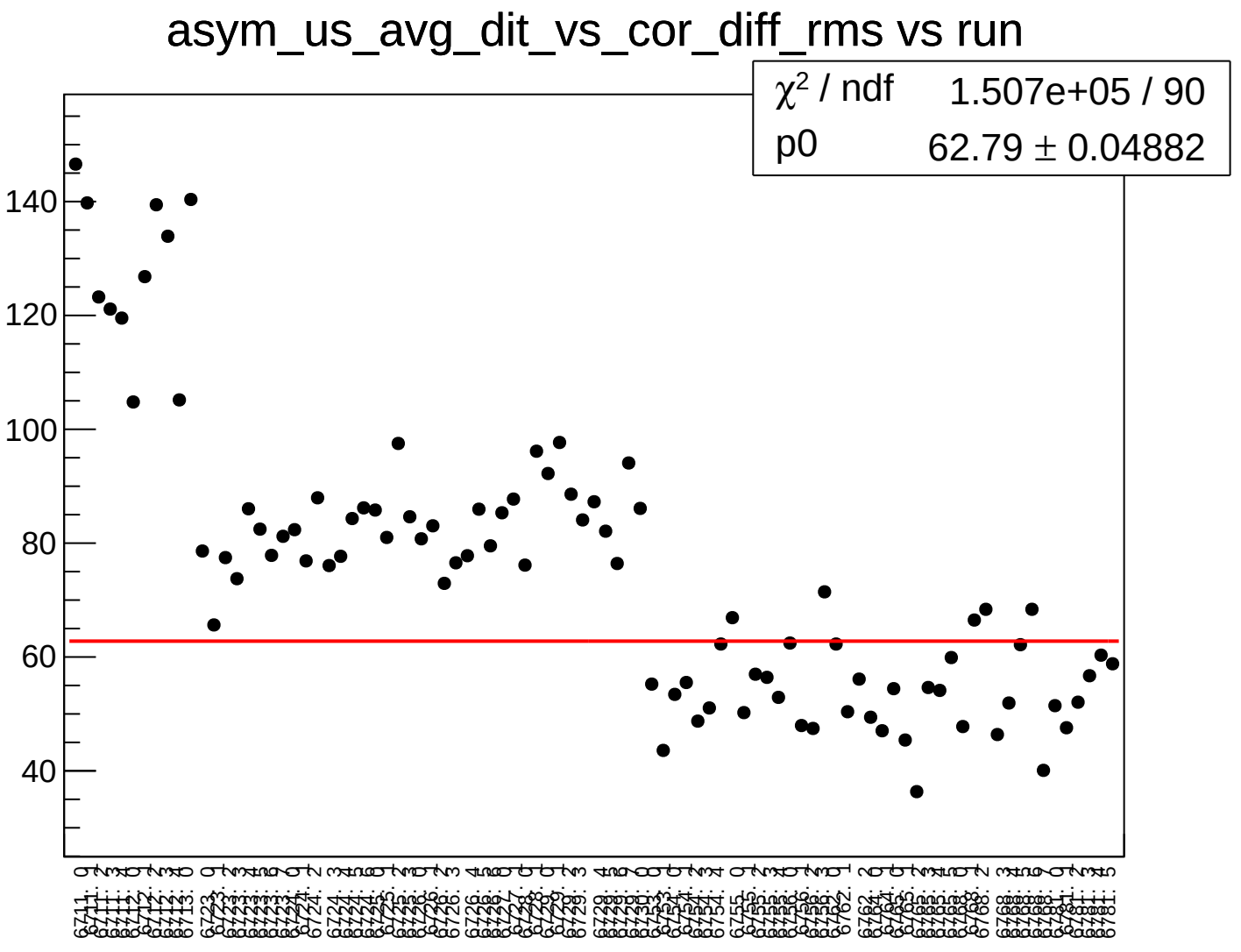

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.76 / 90
p0 −4.176e−14 ± 3.871e−14
pull
Entries 91
Mean 43.78
Std Dev 0

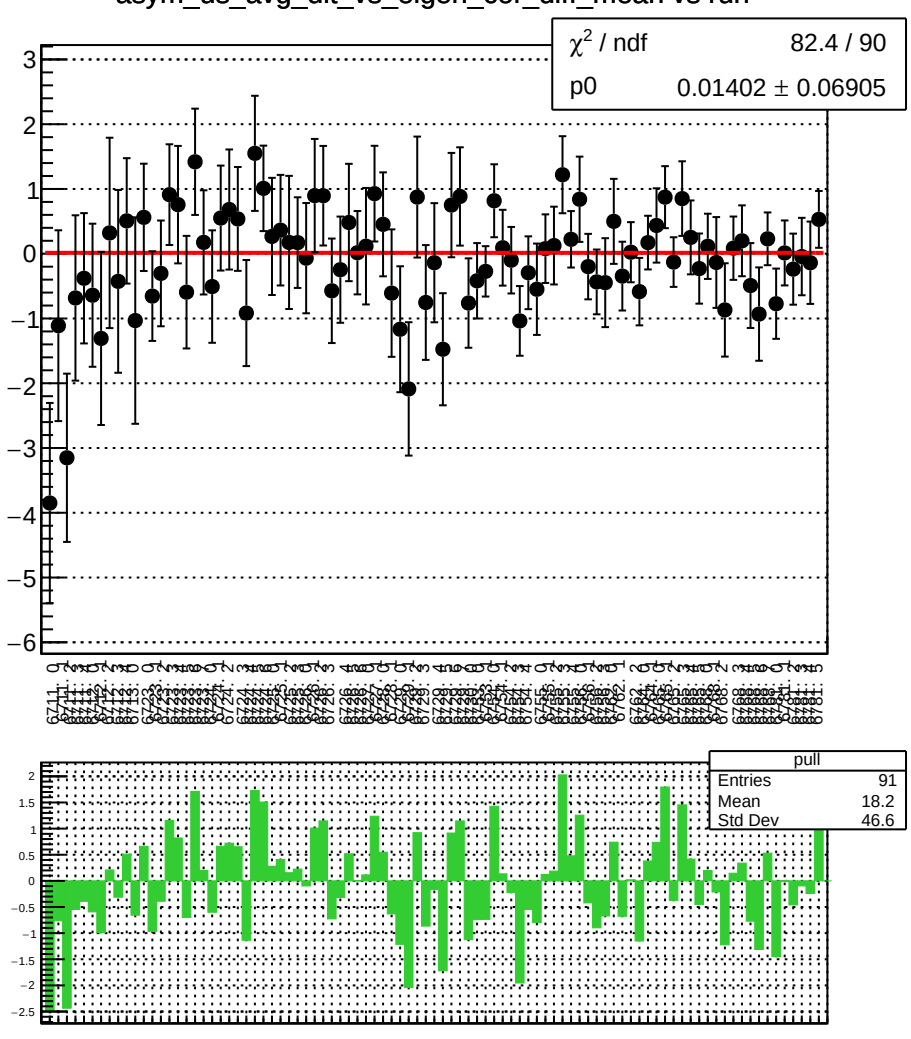

pull1D
Entries 91
Mean 0.07461
Std Dev 0.9679

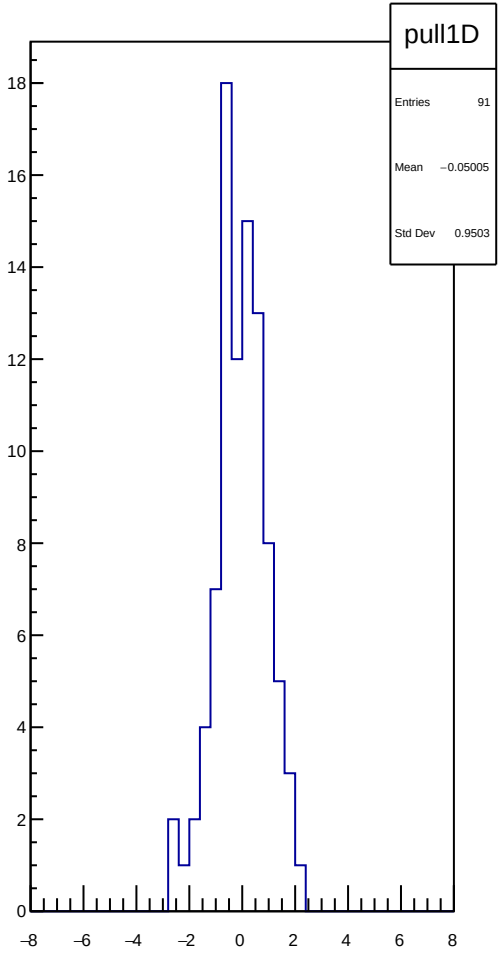

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.948e+05 / 90
p0 3.01e−11 ± 2.737e−14
0.25
0.2
0.15
0.1
0.05

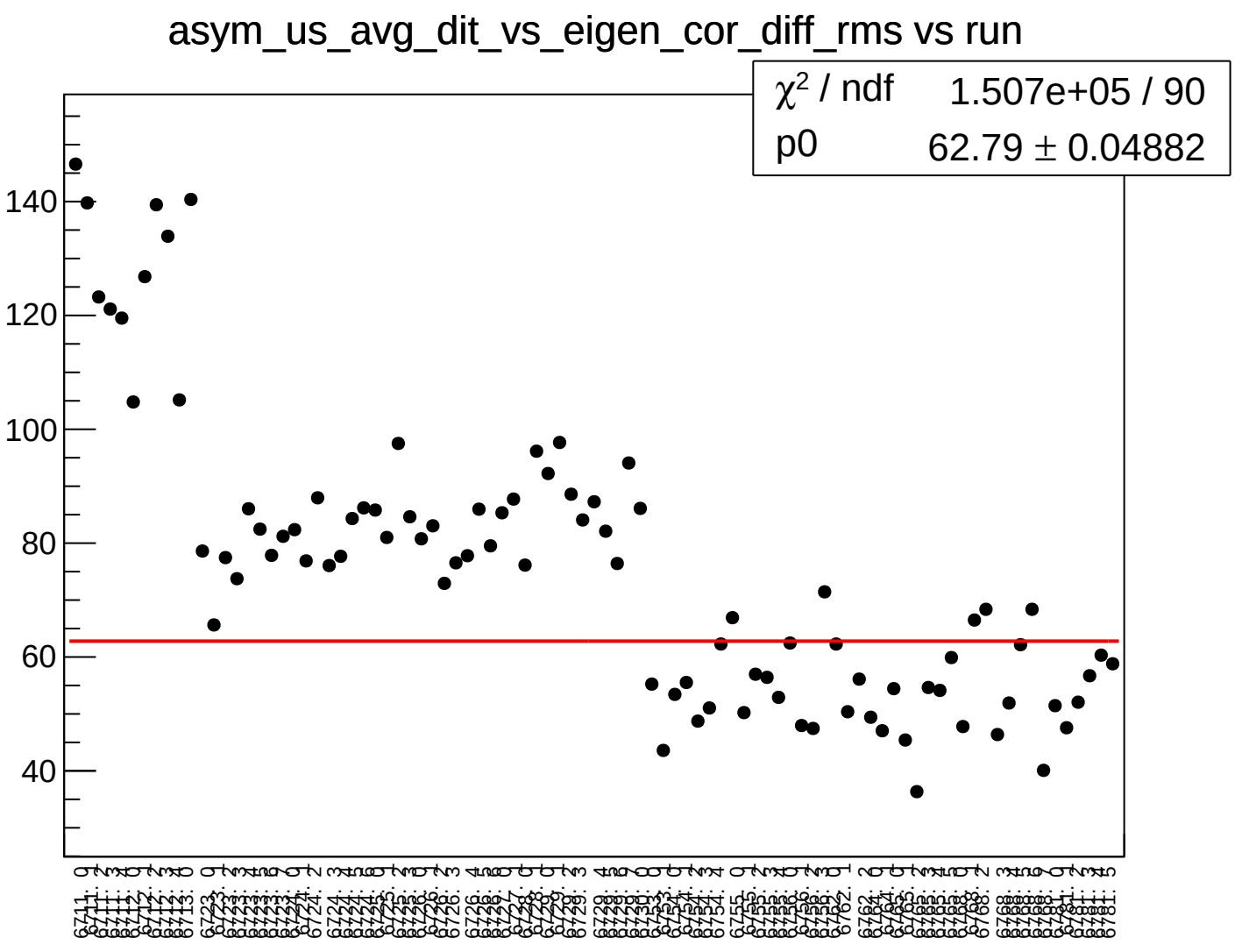

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.4 / 90
p0 0.01402 ± 0.06905
pull
Entries 91
Mean 18.2
Std Dev 46.6

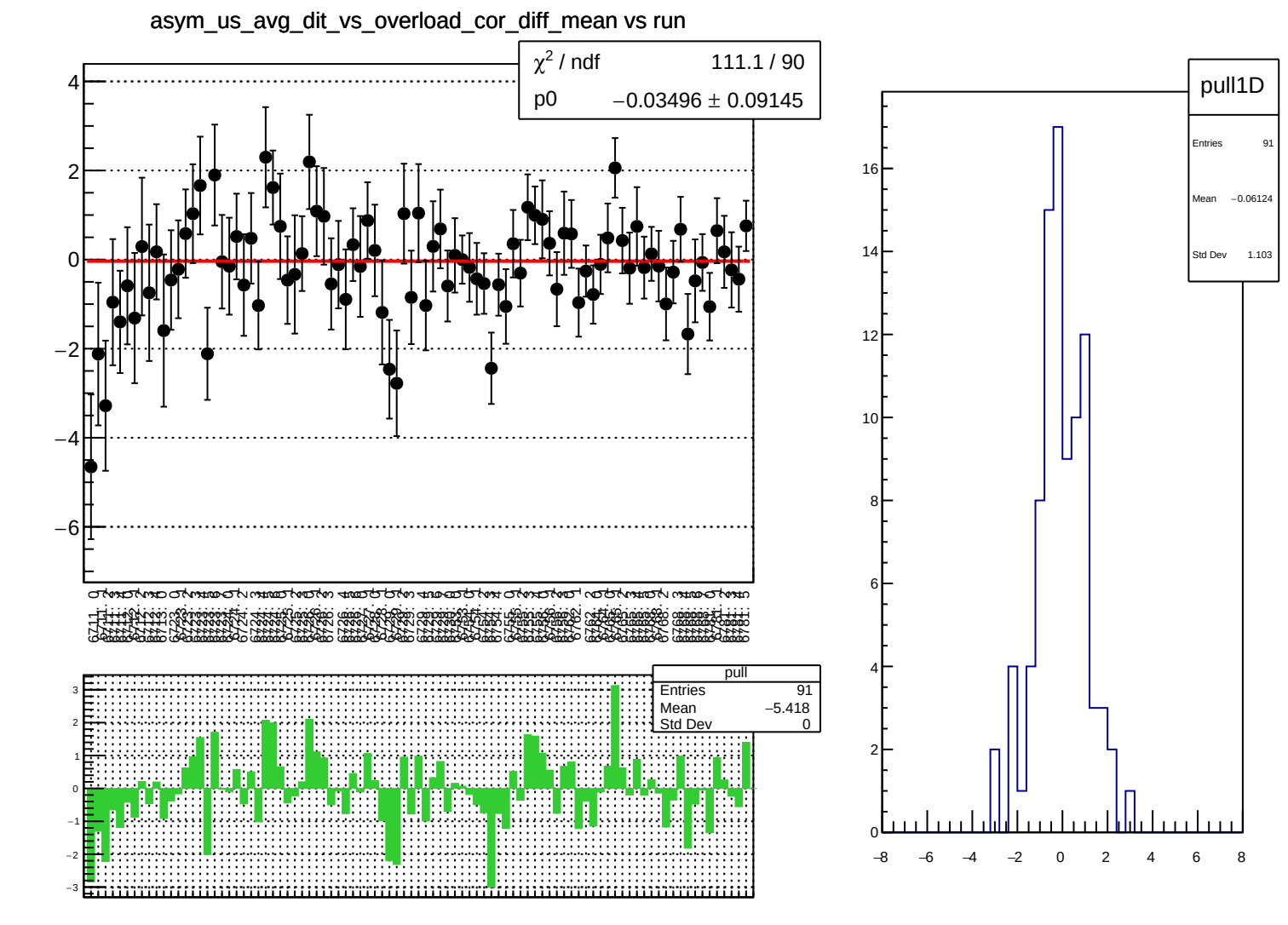

pull1D
Entries 91
Mean −0.05005
Std Dev 0.9503

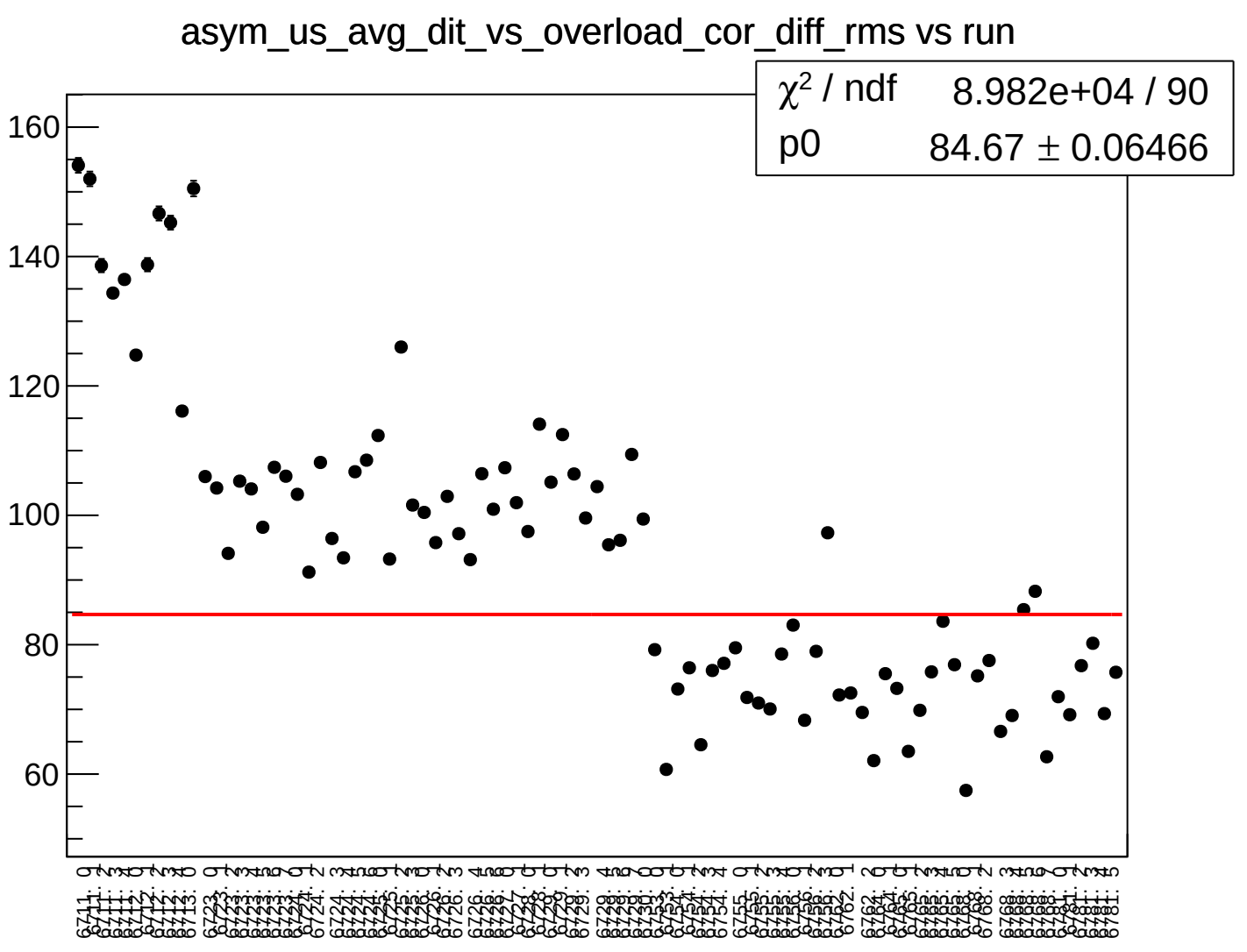

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.507e+05 / 90
p0 62.79 ± 0.04882
140
120
100
80
60
40

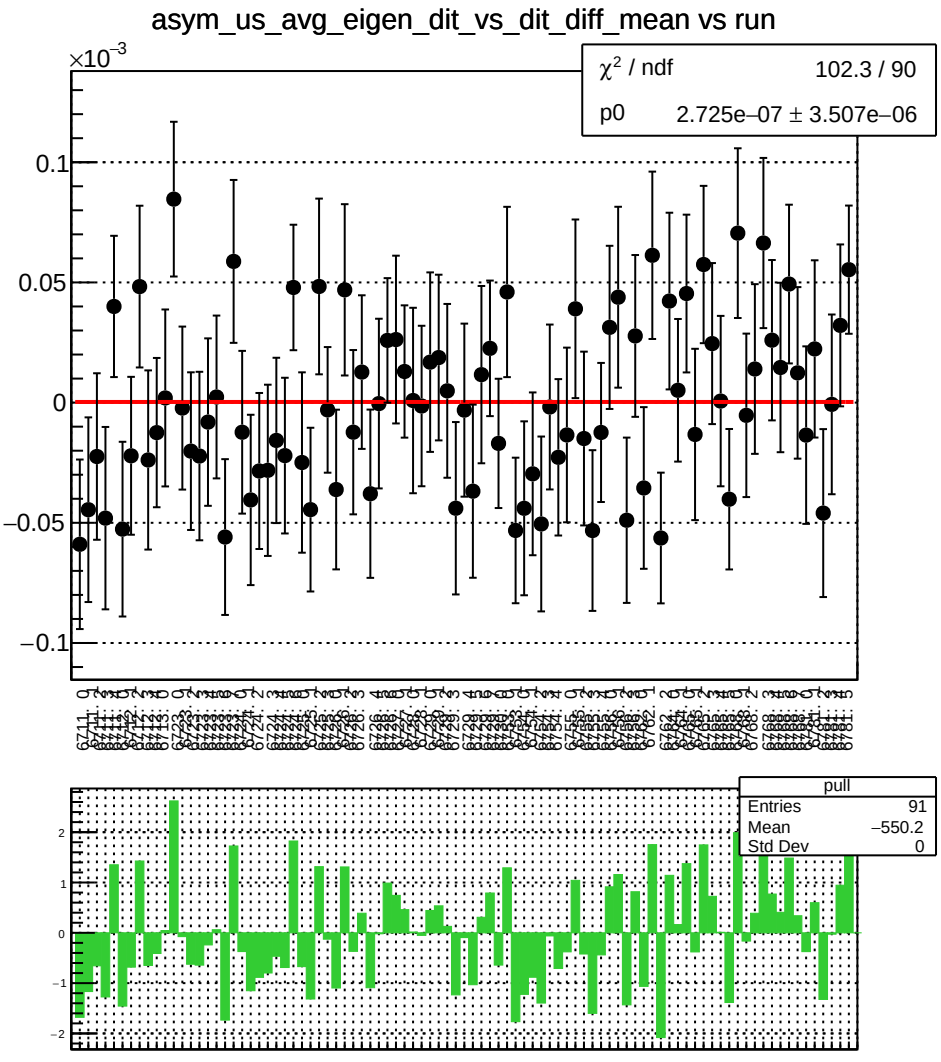

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.4 / 90
p0 0.01402 ± 0.06905
pull
Entries 91
Mean 18.2
Std Dev 46.6

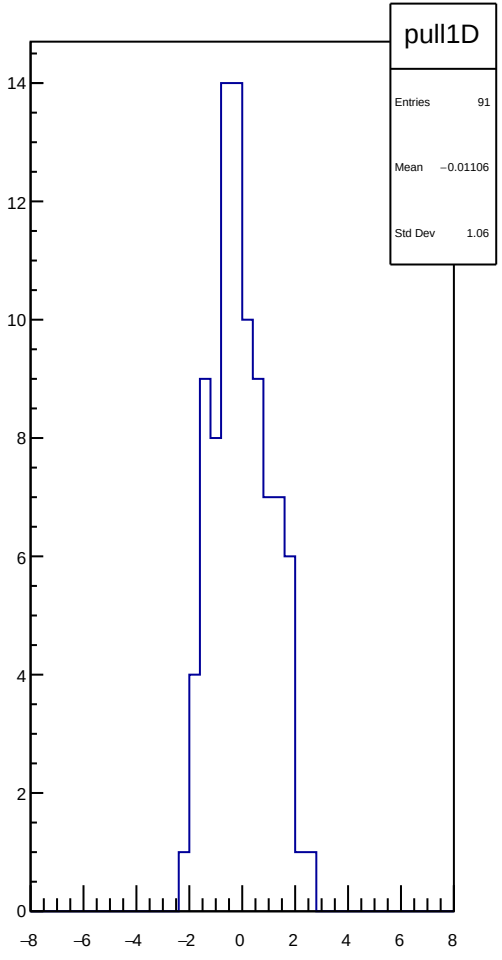

pull1D
Entries 91
Mean −0.05005
Std Dev 0.9503

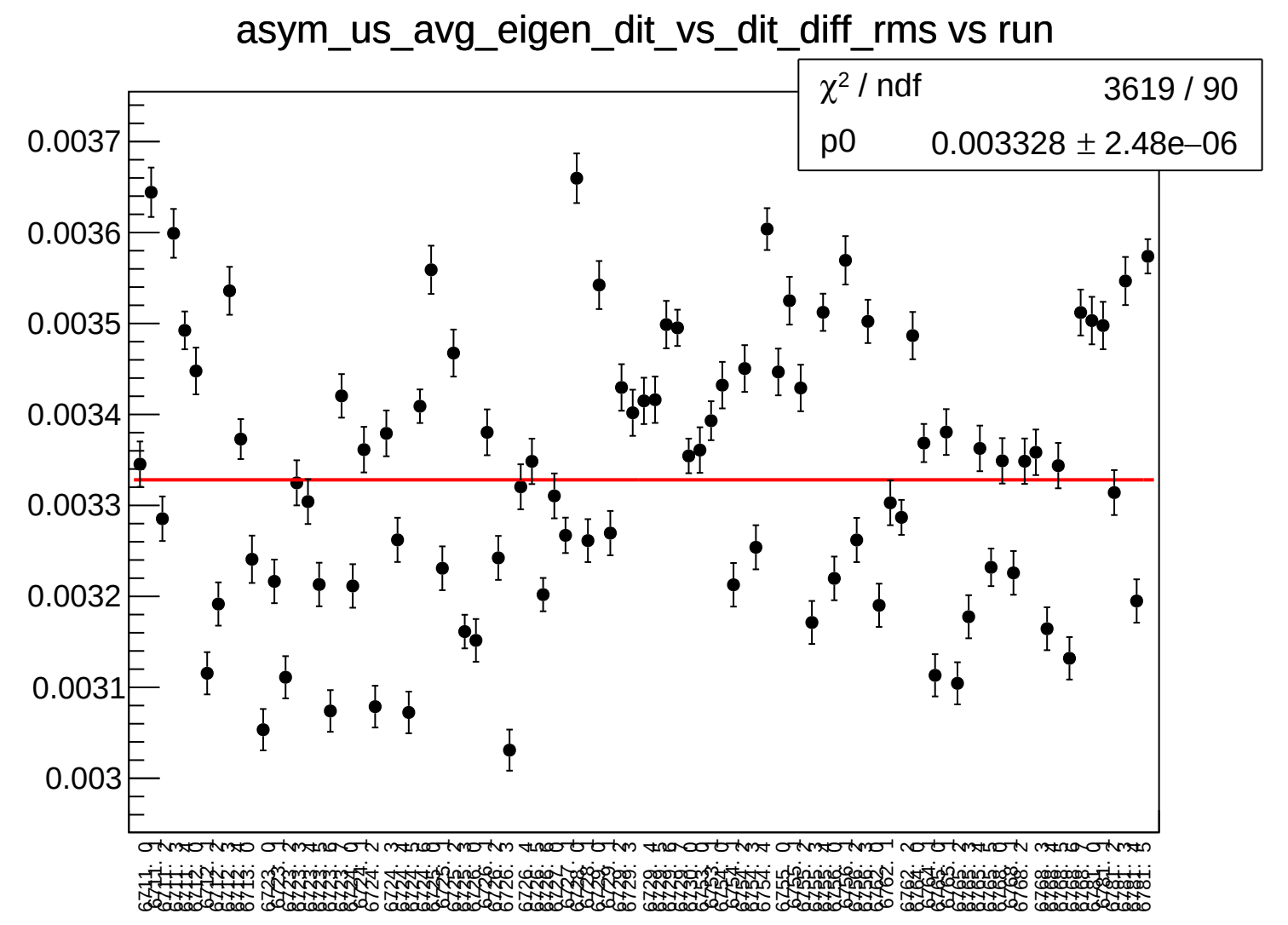

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.507e+05 / 90
p0 62.79 ± 0.04882
140
120
100
80
60
40

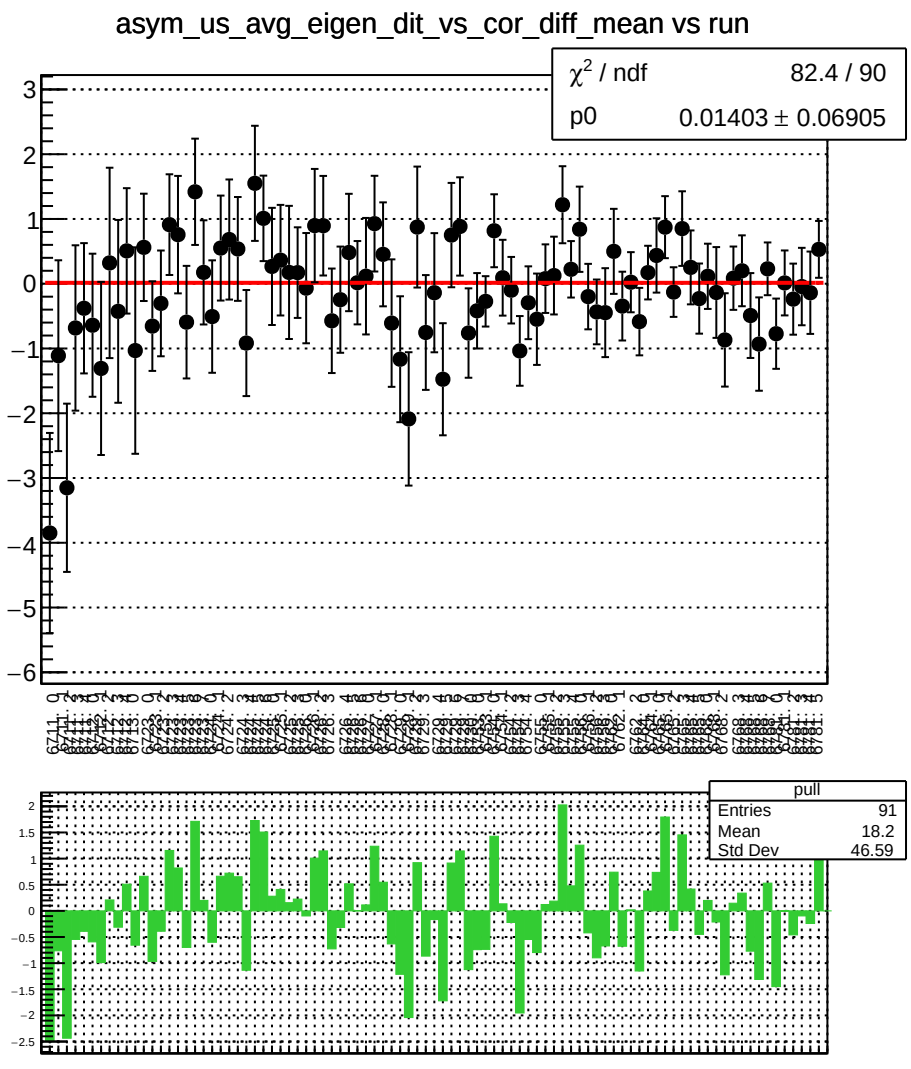

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 111.1 / 90
p0 −0.03496 ± 0.09145
pull
Entries 91
Mean −5.418
Std Dev 0
pull1D
Entries 91
Mean −0.06124
Std Dev 1.103

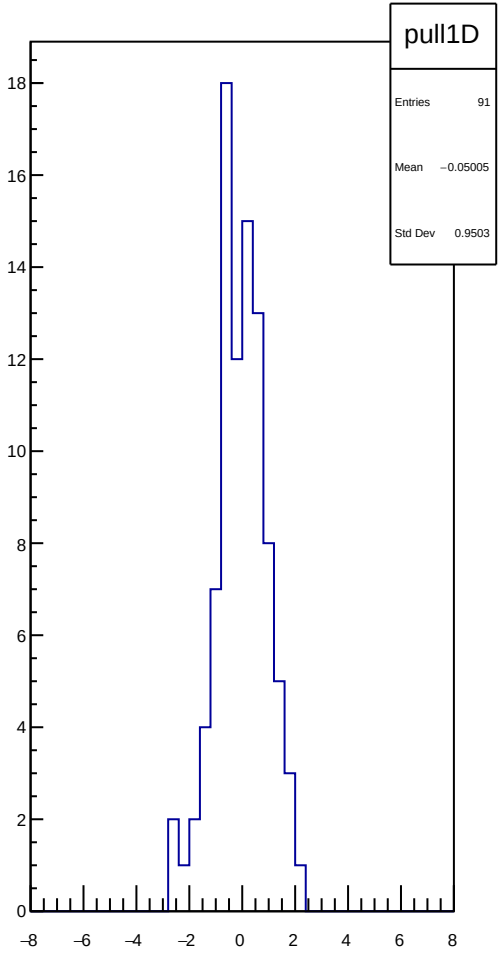

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.982e+04 / 90
p0 84.67 ± 0.06466
160
140
120
100
80
60

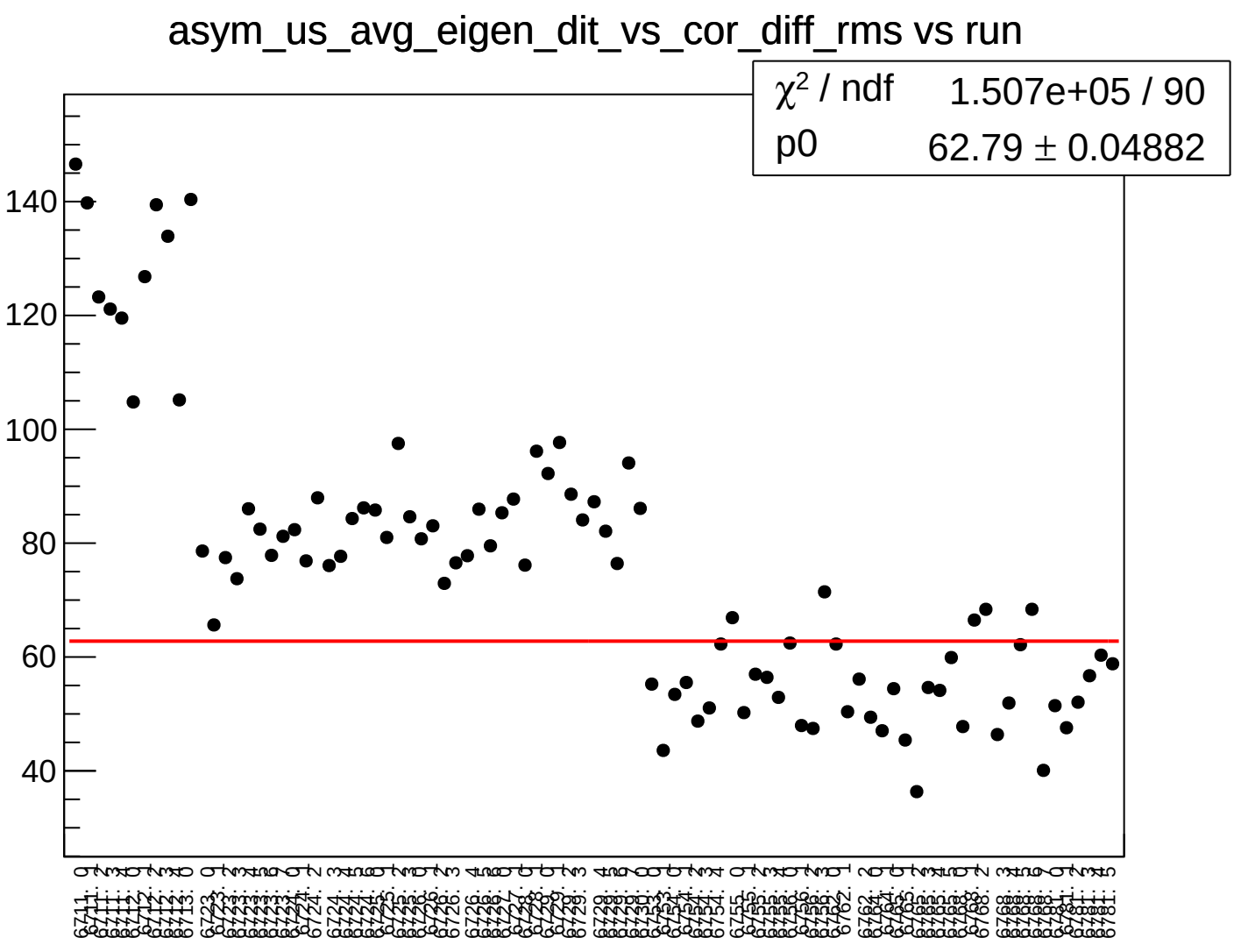

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.3 / 90
p0 2.725e−07 ± 3.507e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean −550.2
Std Dev 0
2
1
0
−1
−2

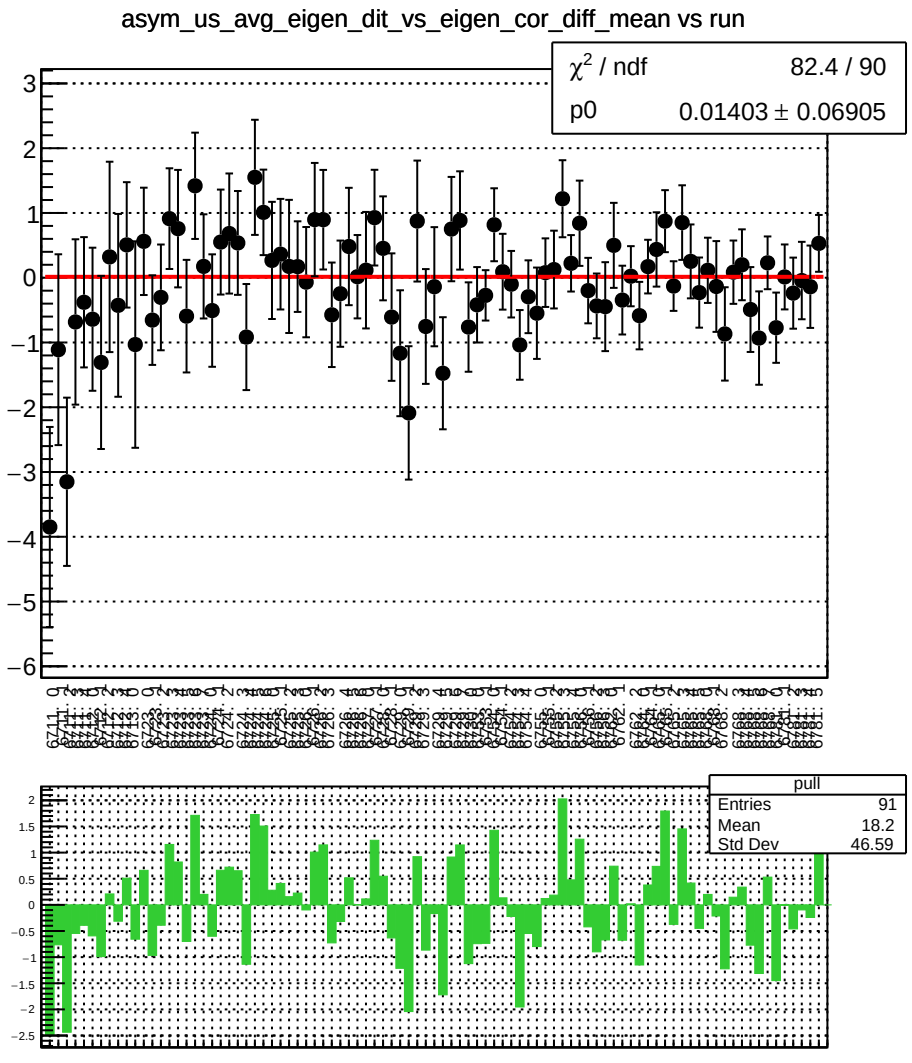

pull1D
Entries 91
Mean −0.01106
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

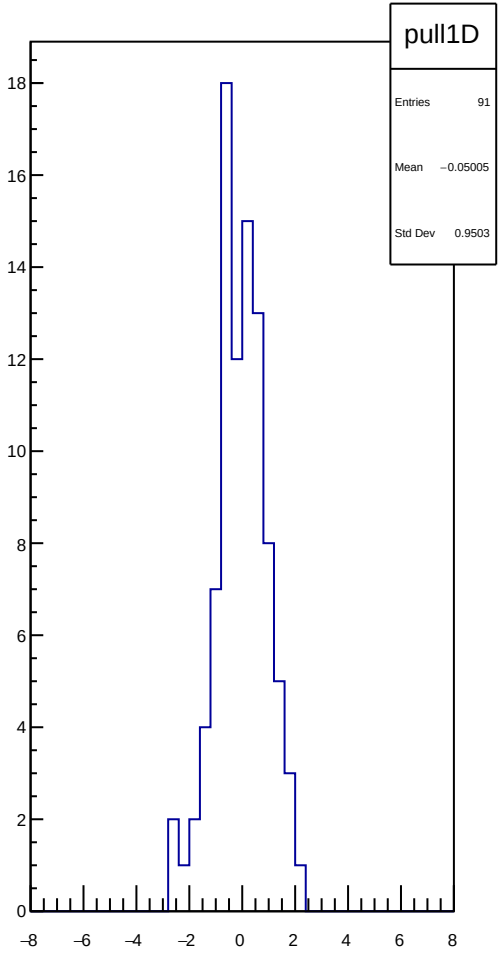

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3619 / 90
p0 0.003328 ± 2.48e−06
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003

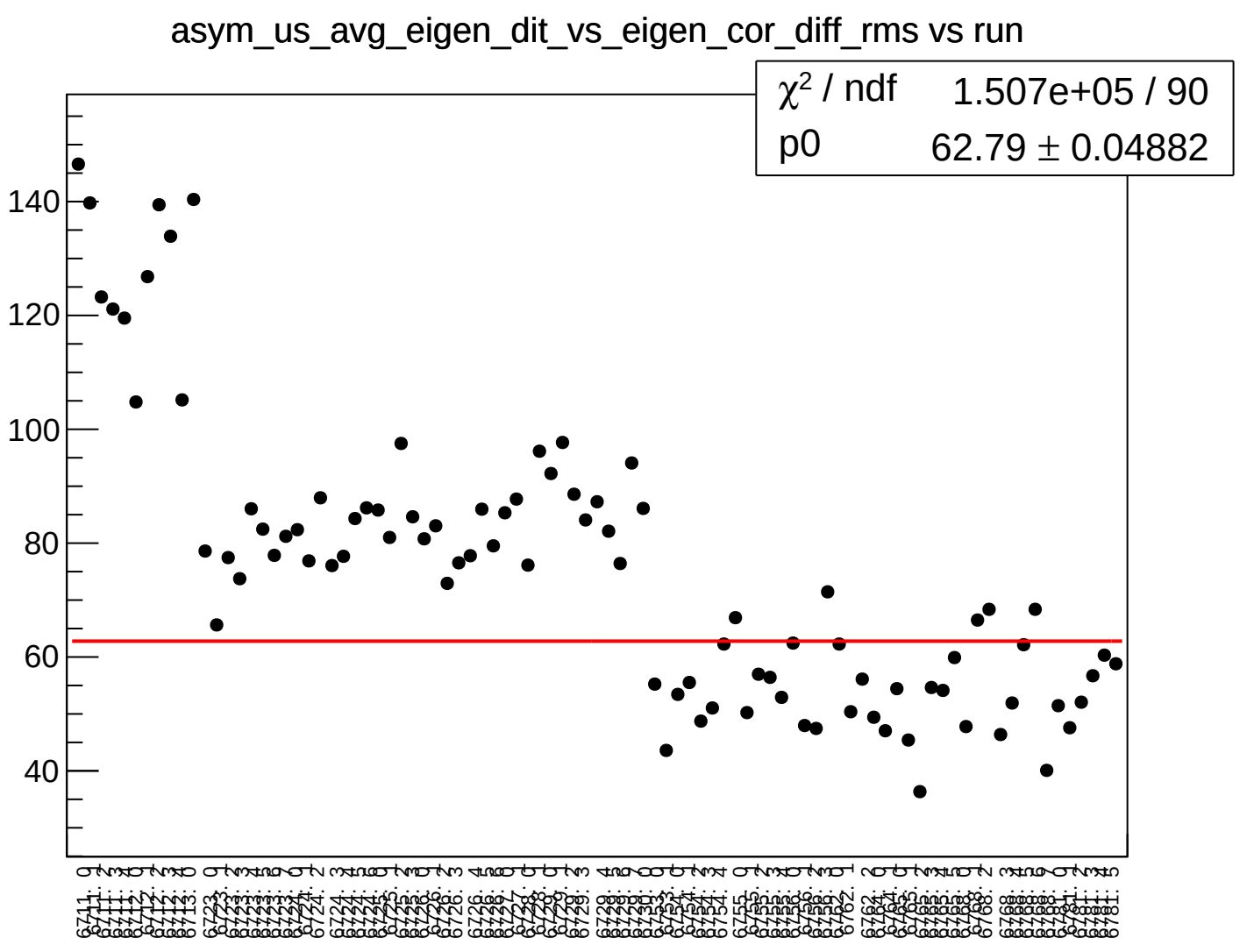

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.4 / 90
p0 0.01403 ± 0.06905
pull
Entries 91
Mean 18.2
Std Dev 46.59

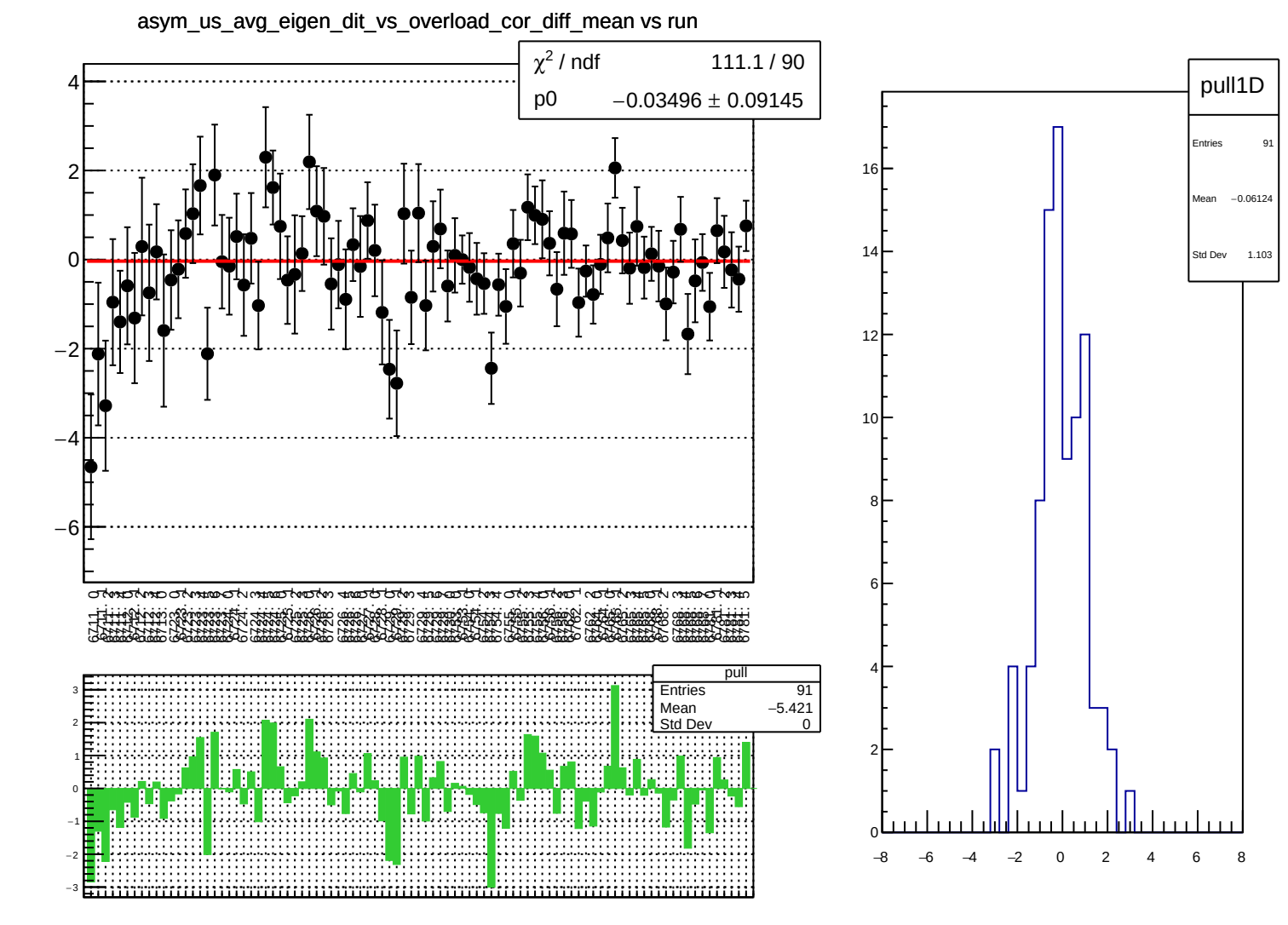

pull1D
Entries 91
Mean −0.05005
Std Dev 0.9503

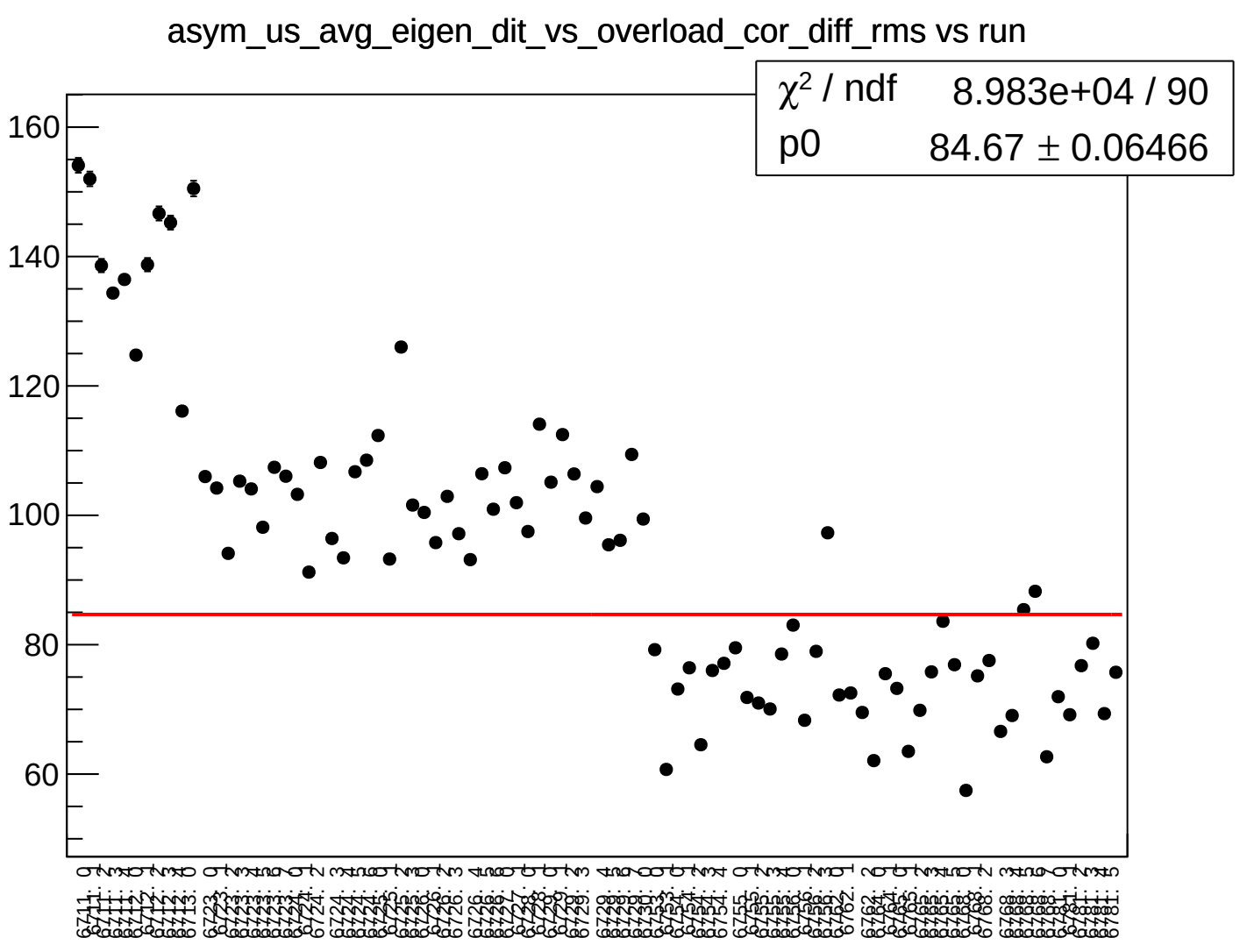

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.507e+05 / 90
p0 62.79 ± 0.04882
140
120
100
80
60
40

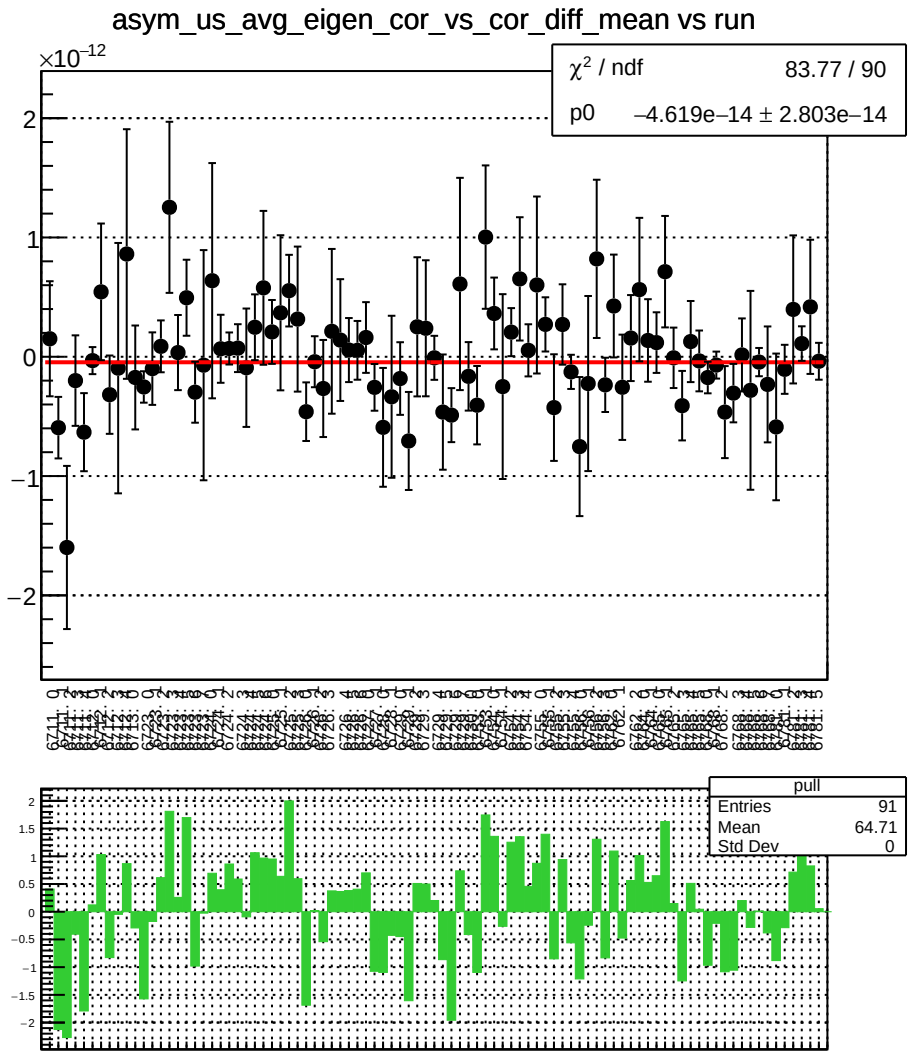

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.4 / 90
p0 0.01403 ± 0.06905
pull
Entries 91
Mean 18.2
Std Dev 46.59

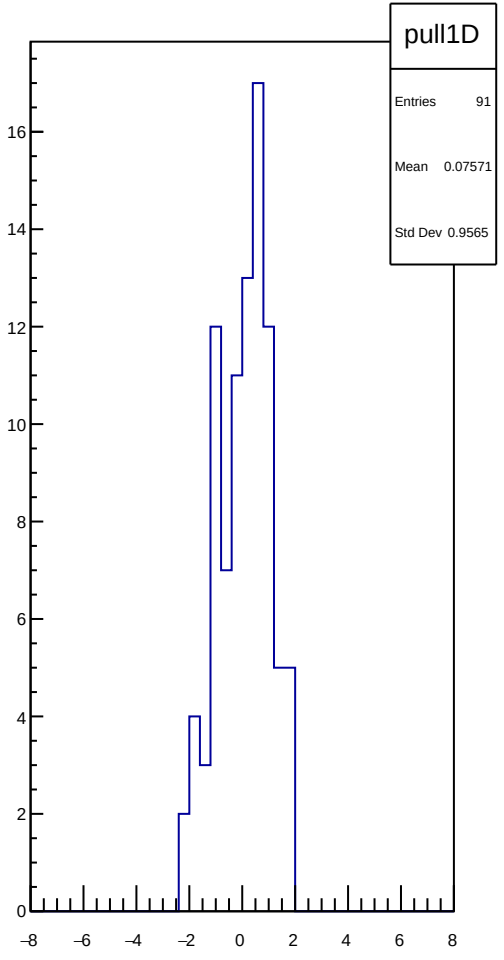

pull1D
Entries 91
Mean −0.05005
Std Dev 0.9503

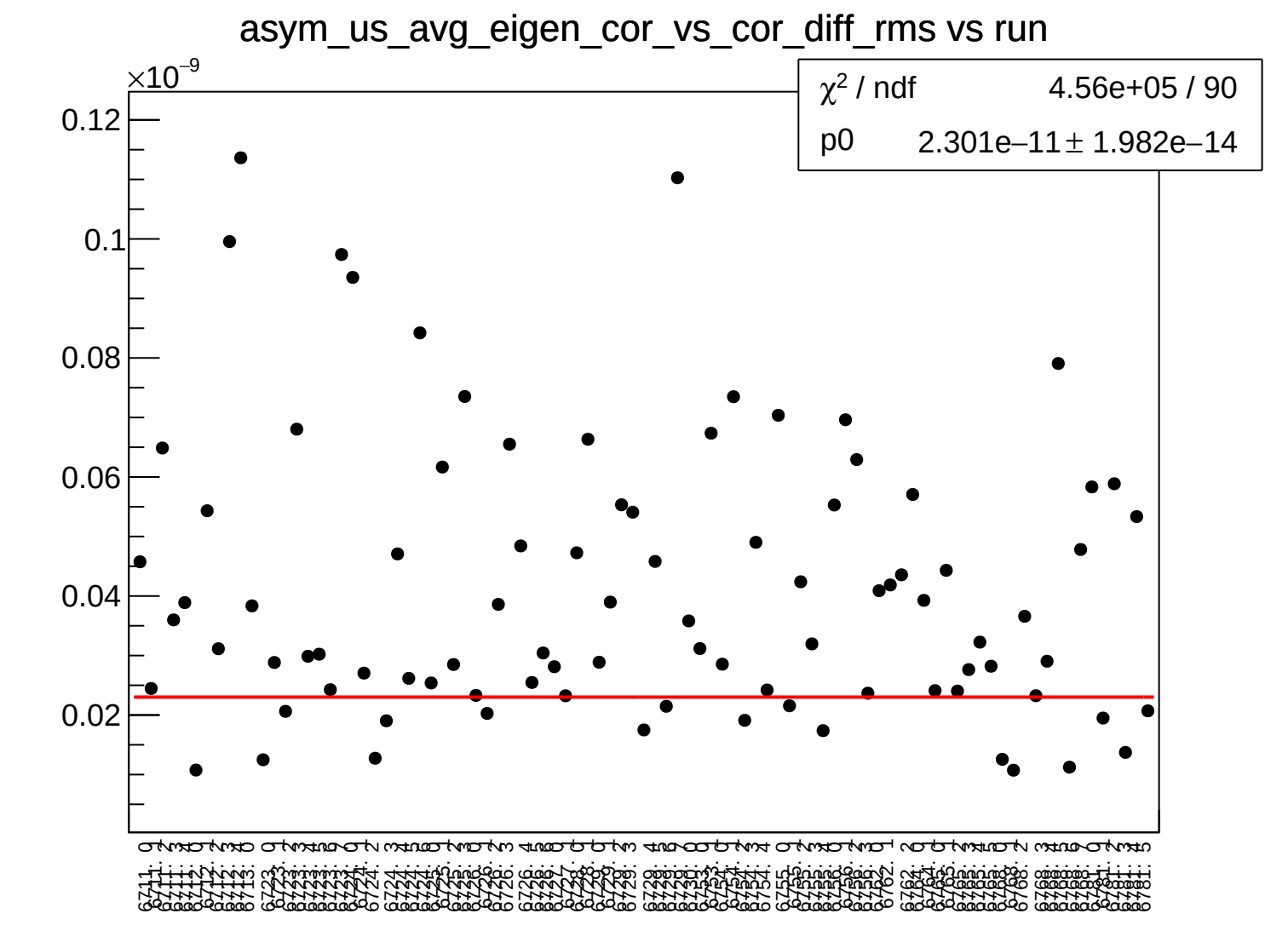

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.507e+05 / 90
p0 62.79 ± 0.04882
140
120
100
80
60
40

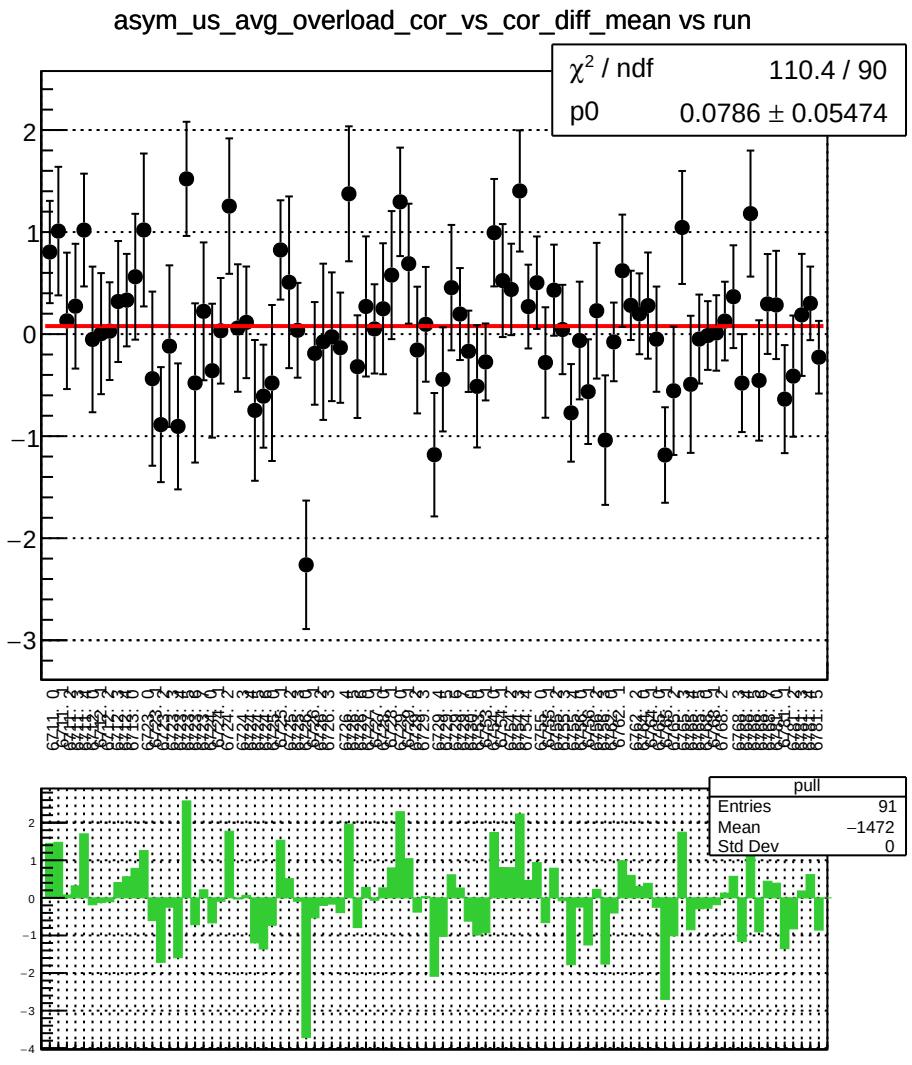

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 111.1 / 90
p0 −0.03496 ± 0.09145
pull
Entries 91
Mean −5.421
Std Dev 0
pull1D
Entries 91
Mean −0.06124
Std Dev 1.103

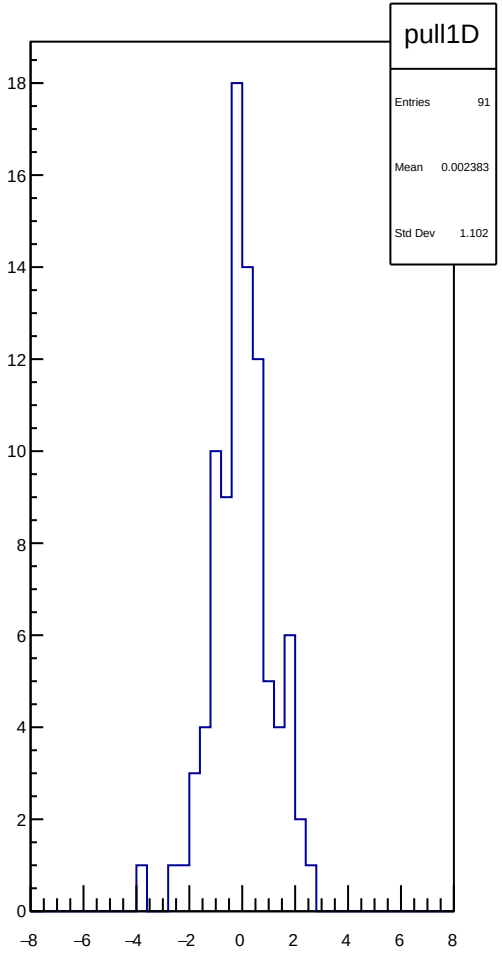

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.983e+04 / 90
p0 84.67 ± 0.06466
160
140
120
100
80
60

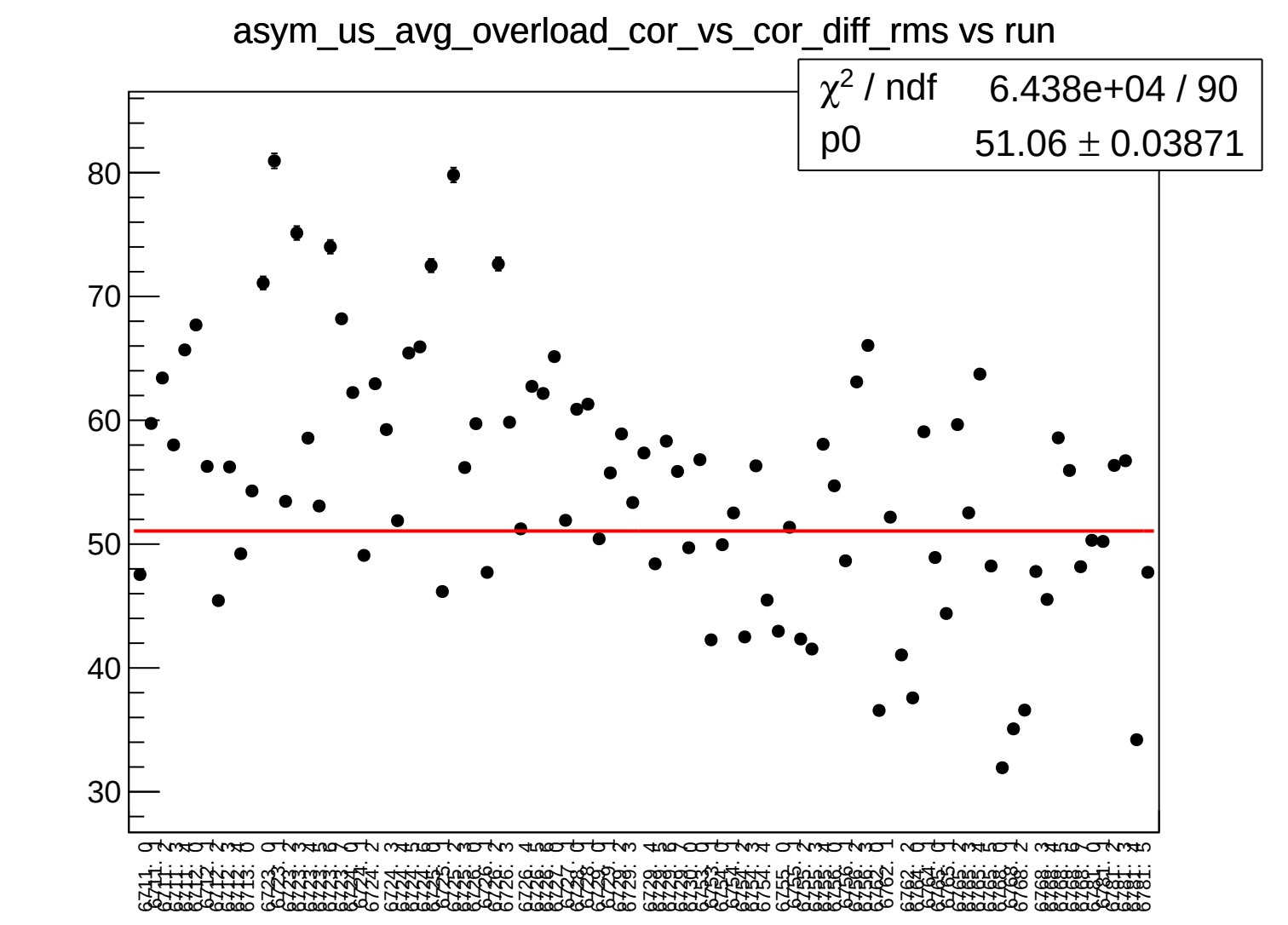

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.77 / 90
p0 −4.619e−14 ± 2.803e−14
pull
Entries 91
Mean 64.71
Std Dev 0

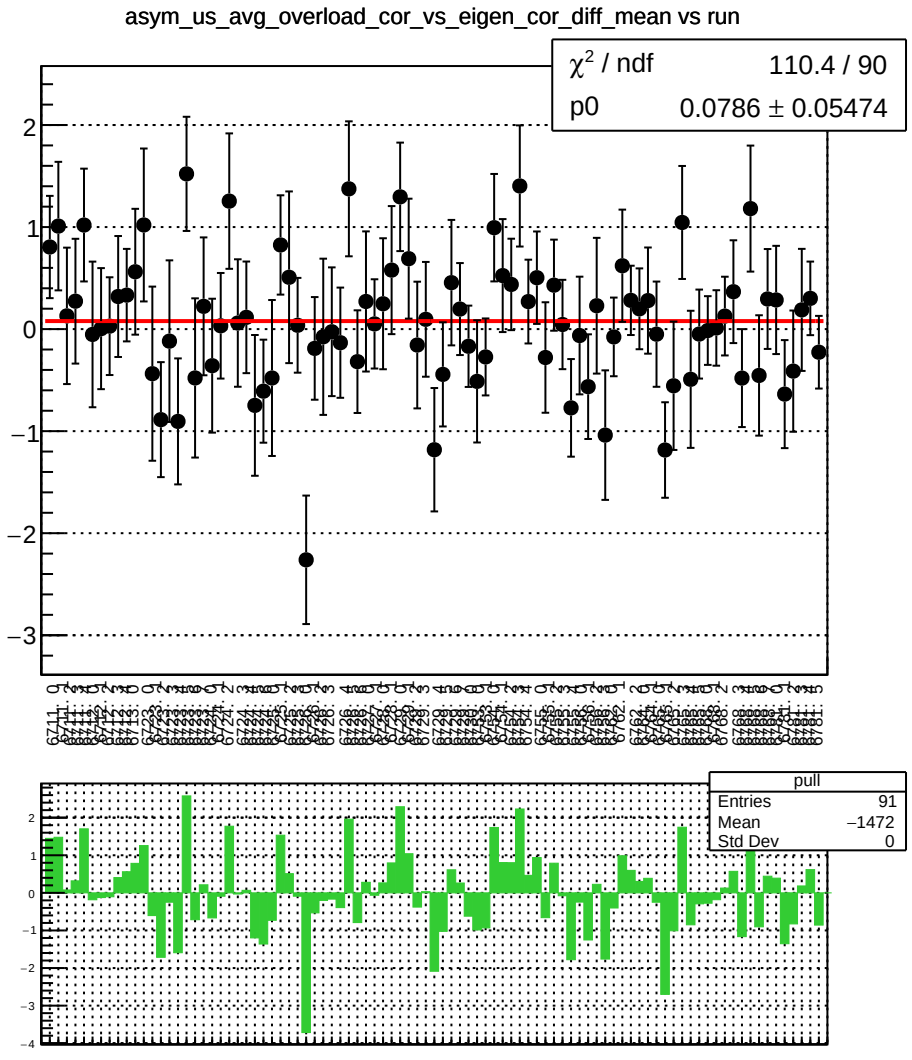

pull1D
Entries 91
Mean 0.07571
Std Dev 0.9565

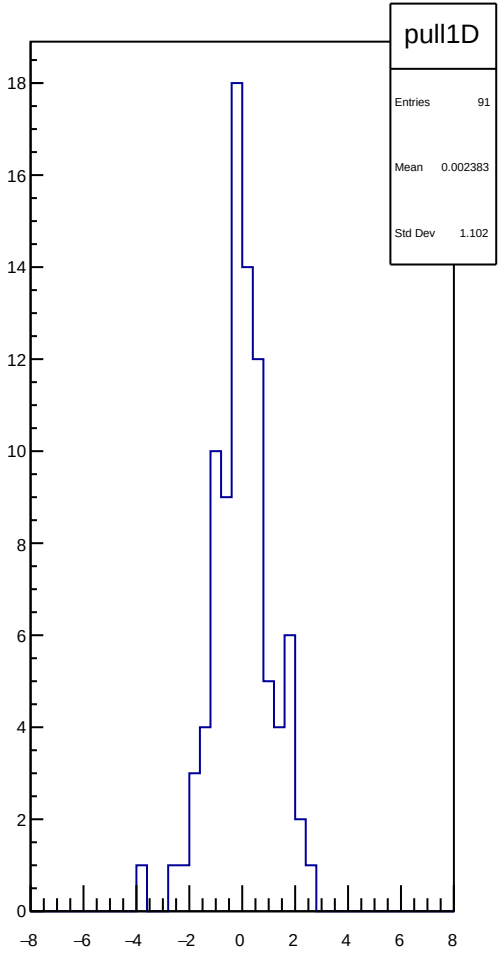

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.56e+05 / 90
p0 2.301e−11 ± 1.982e−14
0.12
0.1
0.08
0.06
0.04
0.02

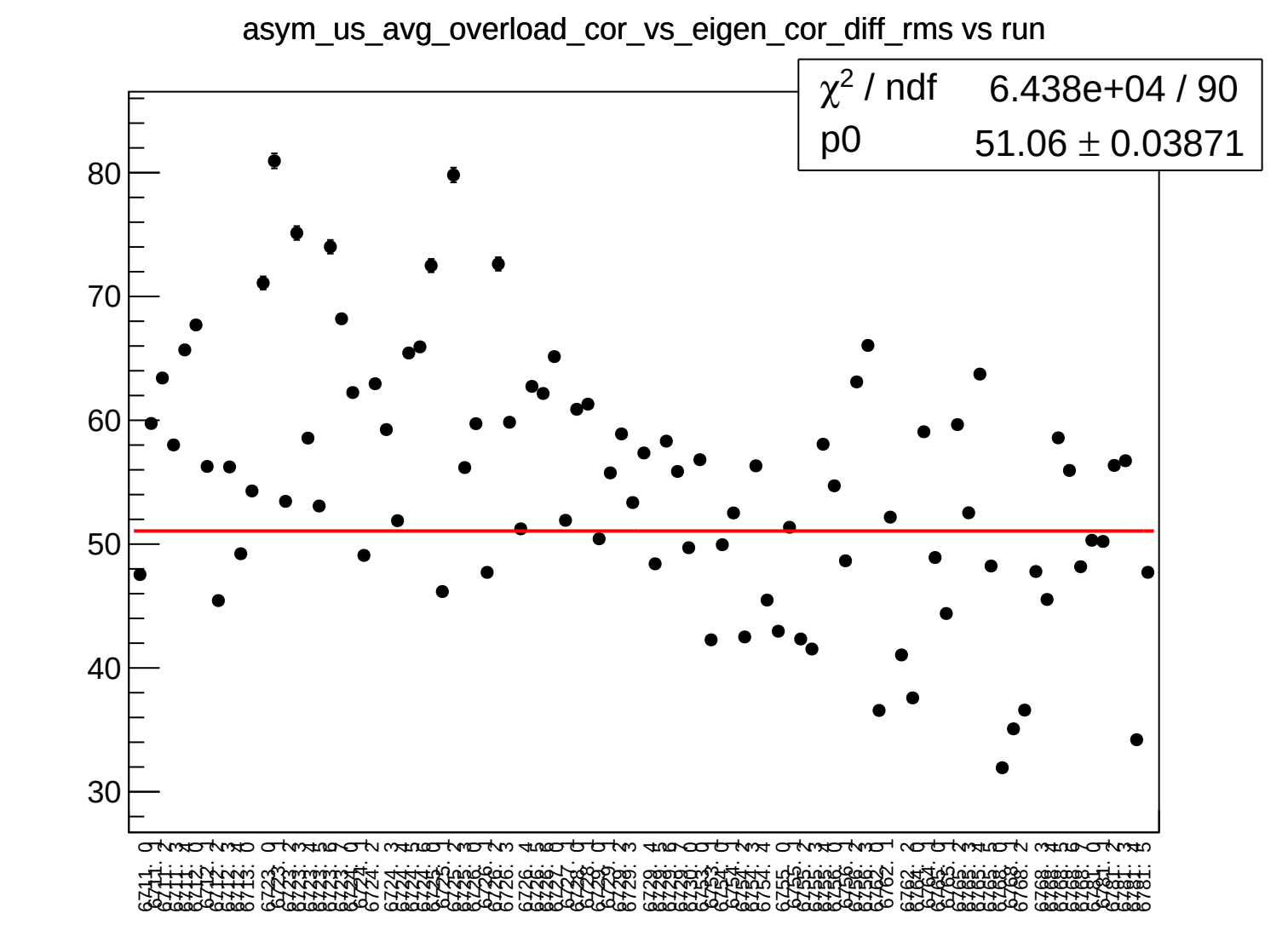

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 110.4 / 90
p0 0.0786 ± 0.05474
pull
Entries 91
Mean −1472
Std Dev 0

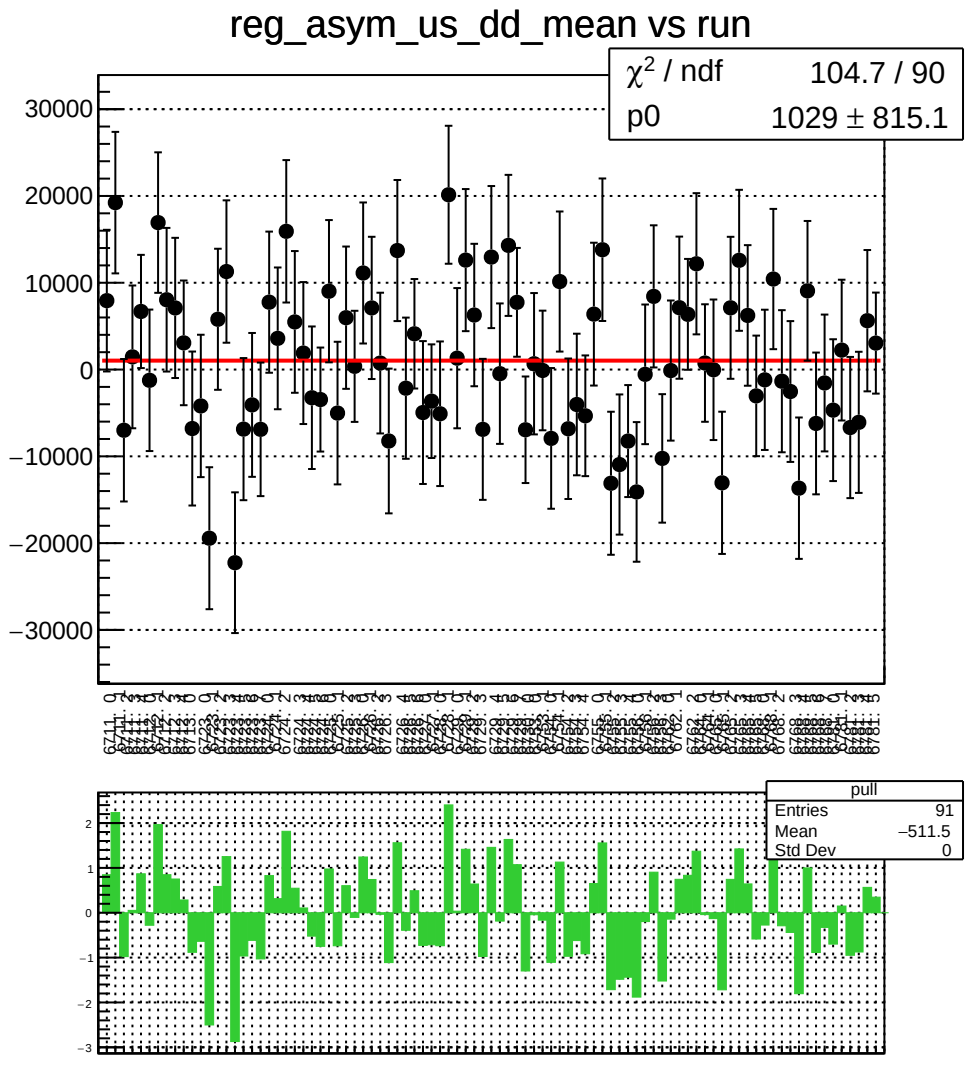

pull1D
Entries 91
Mean 0.002383
Std Dev 1.102

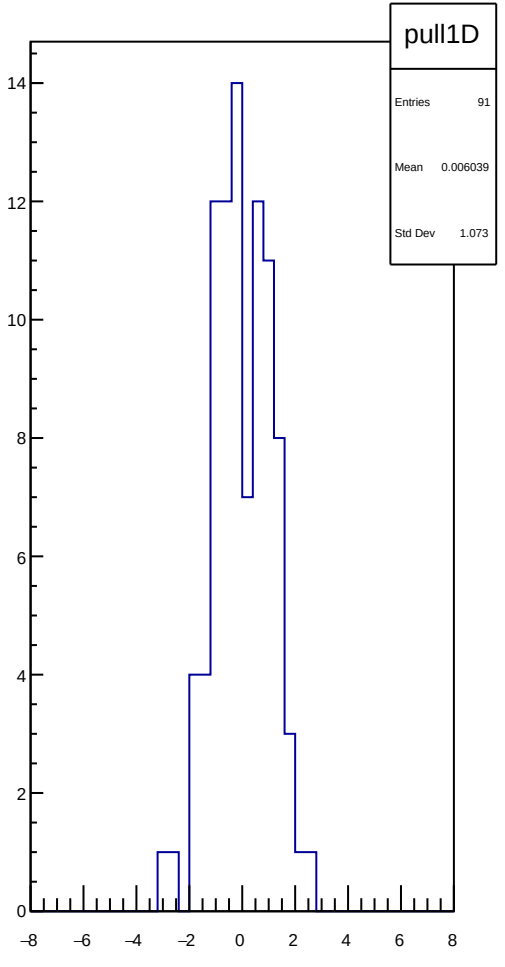

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 6.438e+04 / 90
p0 51.06 ± 0.03871
80
70
60
50
40
30

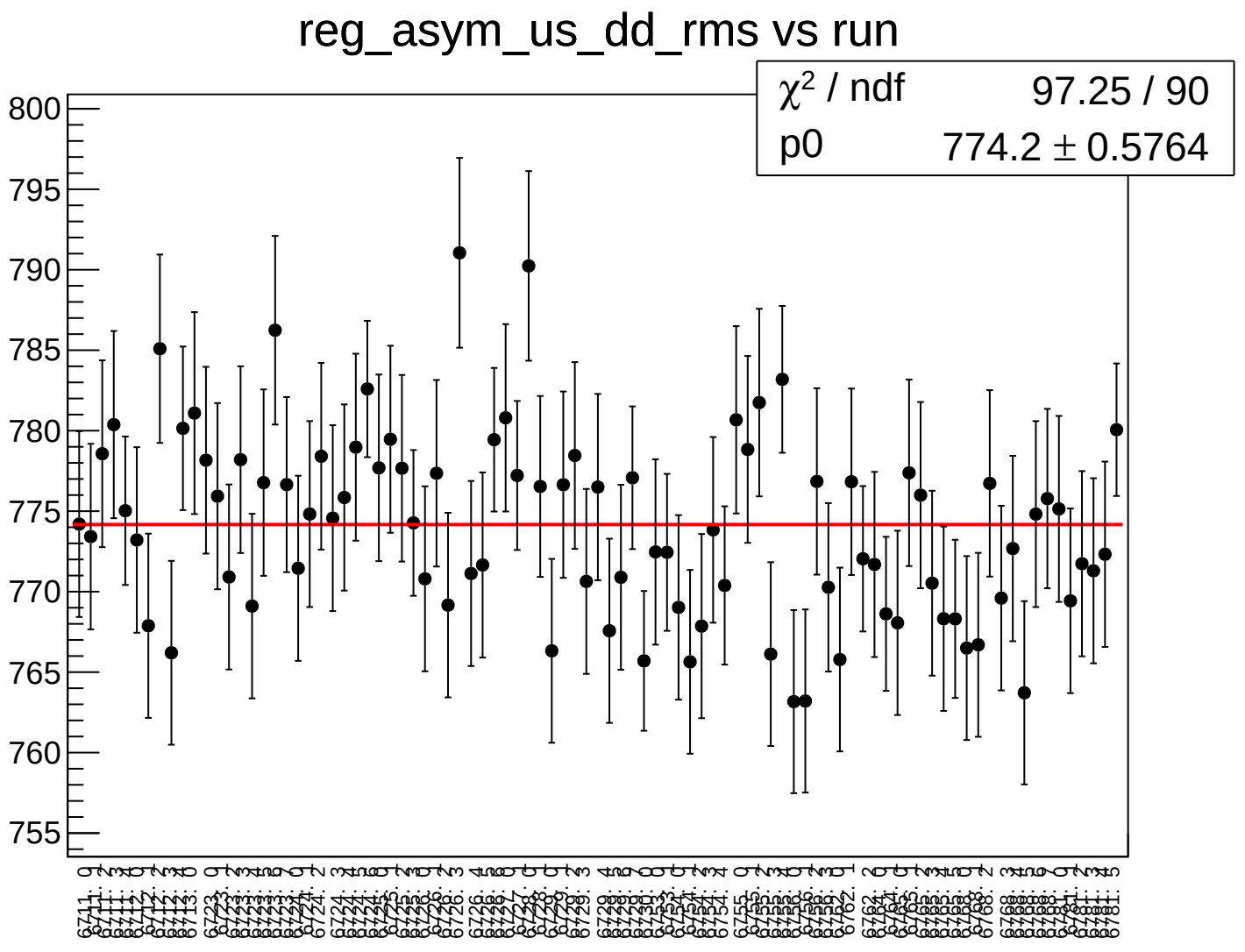

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.4 / 90
p0 0.0786 ± 0.05474
pull
Entries 91
Mean −1472
Std Dev 0

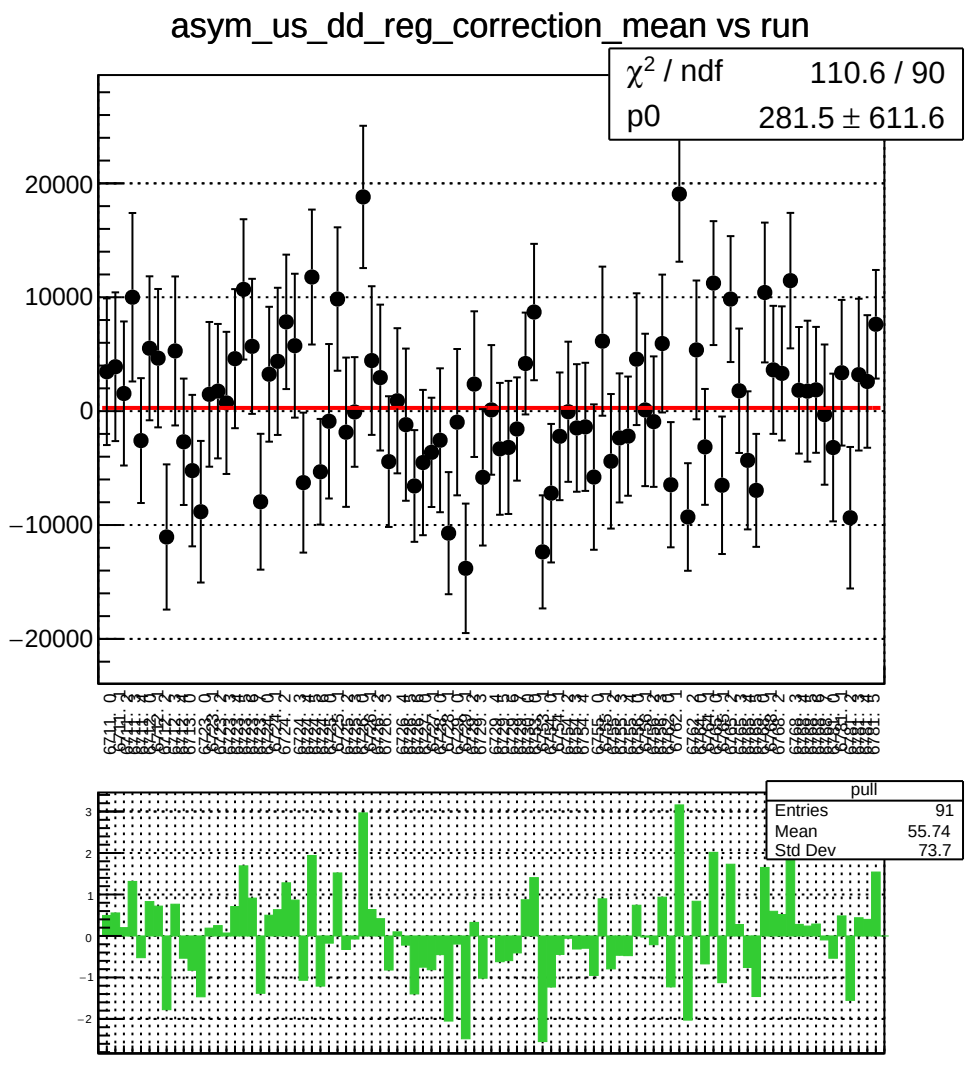

pull1D
Entries 91
Mean 0.002383
Std Dev 1.102

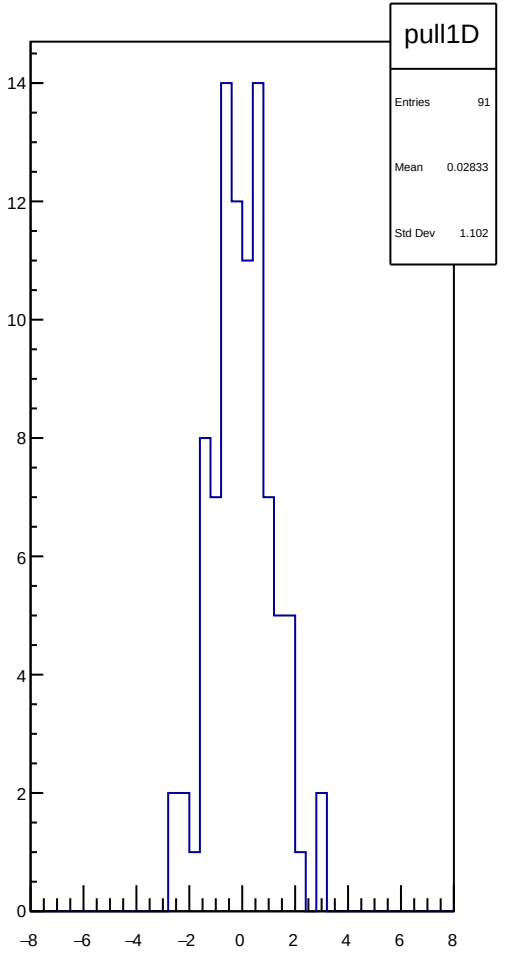

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.438e+04 / 90
p0 51.06 ± 0.03871
80
70
60
50
40
30

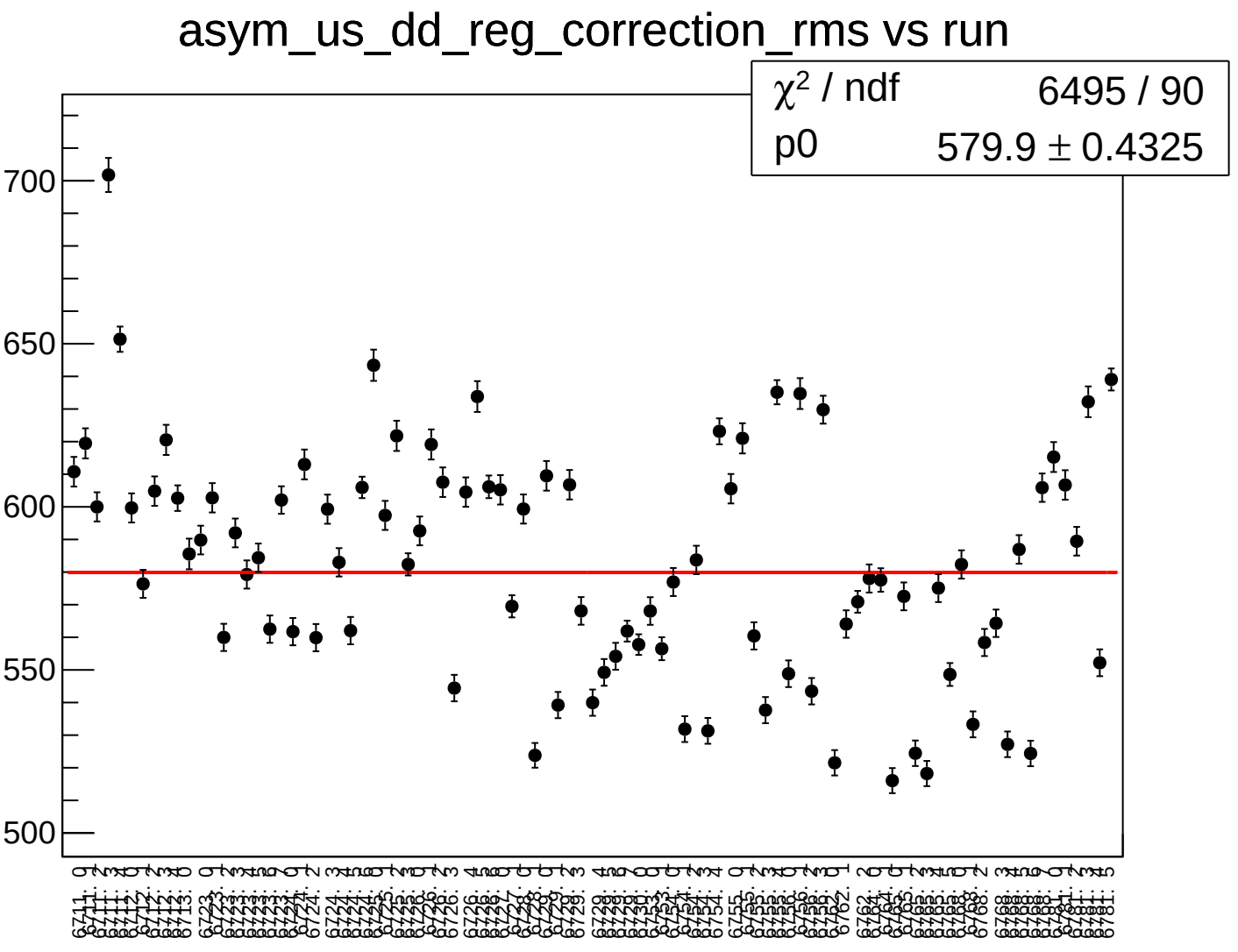

reg_asym_us_dd_mean vs run
χ² / ndf 104.7 / 90
p0 1029 ± 815.1
pull
Entries 91
Mean −511.5
Std Dev 0

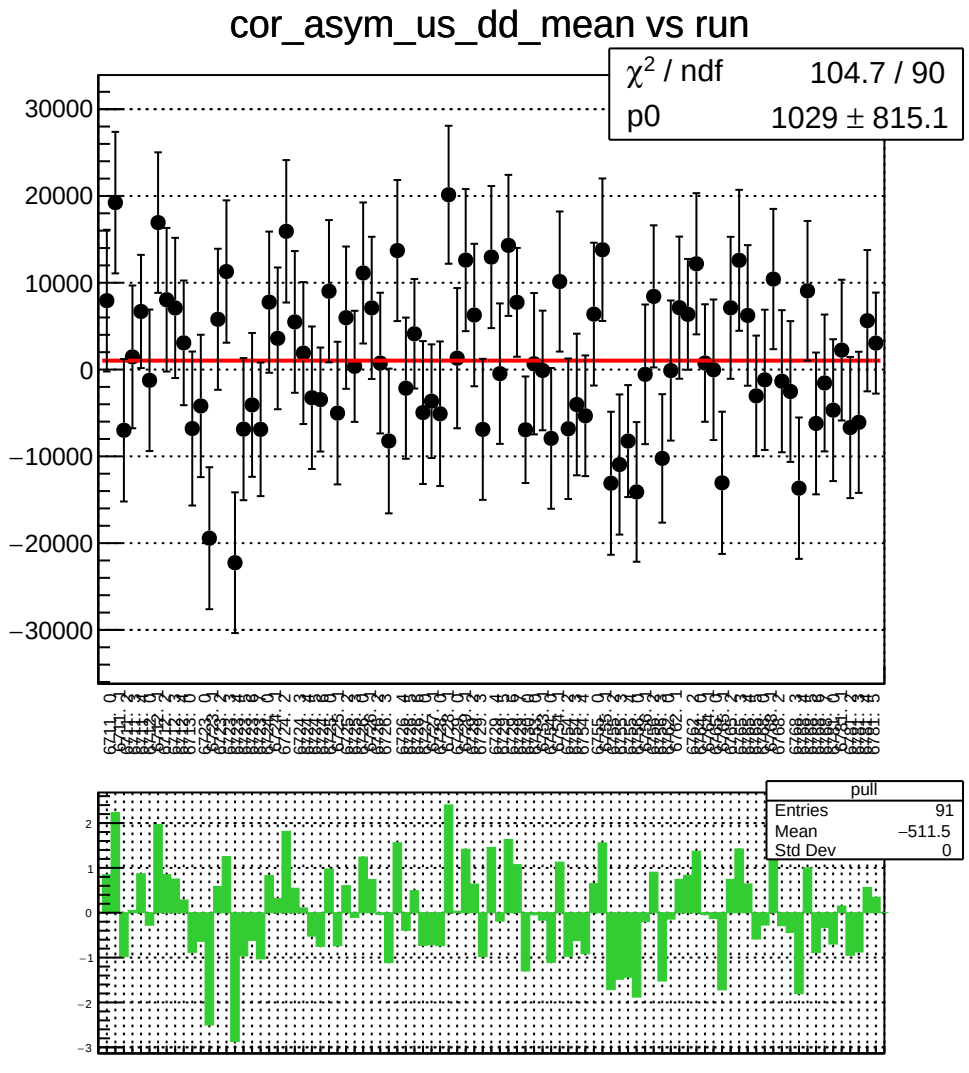

pull1D
Entries 91
Mean 0.006039
Std Dev 1.073

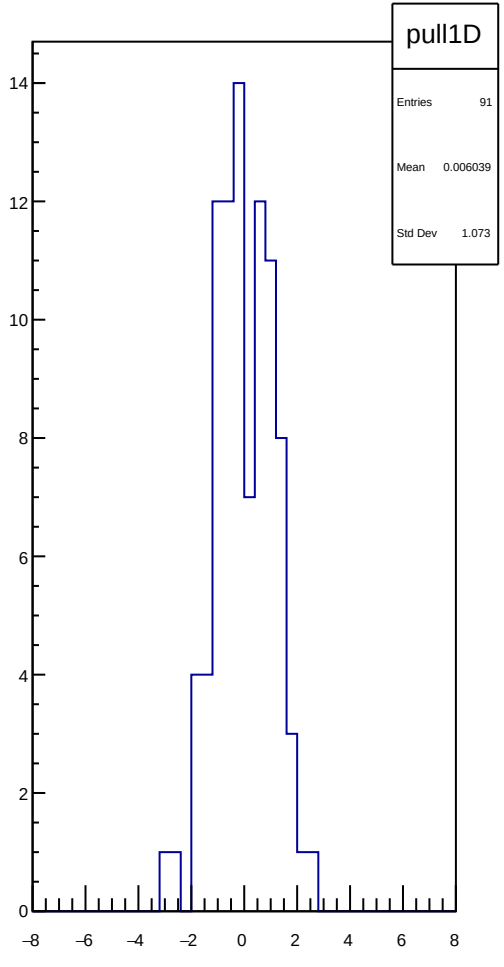

reg_asym_us_dd_rms vs run
χ² / ndf 97.25 / 90
p0 774.2 ± 0.5764
800
795
790
785
780
775
770
765
760
755

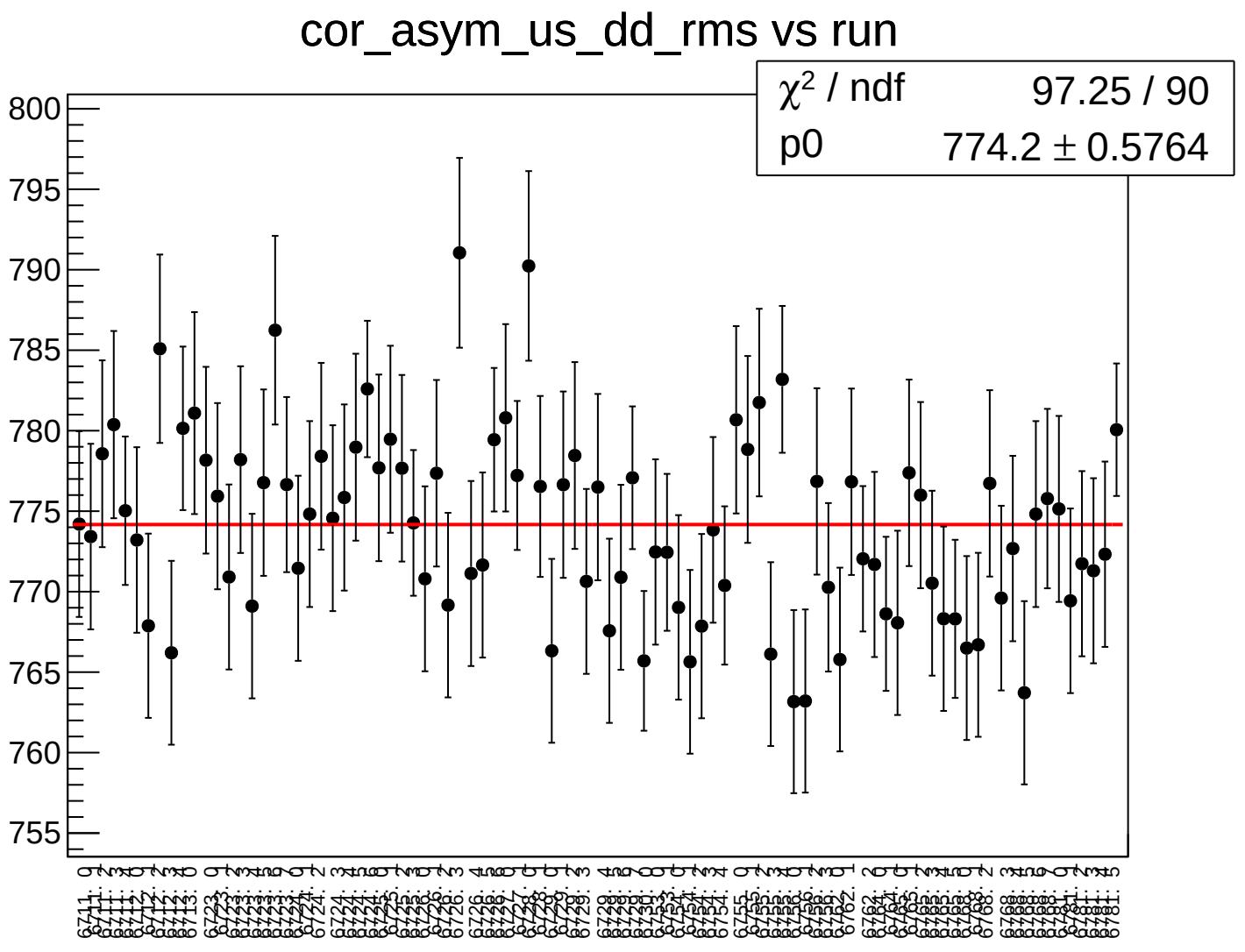

asym_us_dd_reg_correction_mean vs run
χ² / ndf 110.6 / 90
p0 281.5 ± 611.6
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 55.74
Std Dev 73.7
3
2
1
0
−1
−2

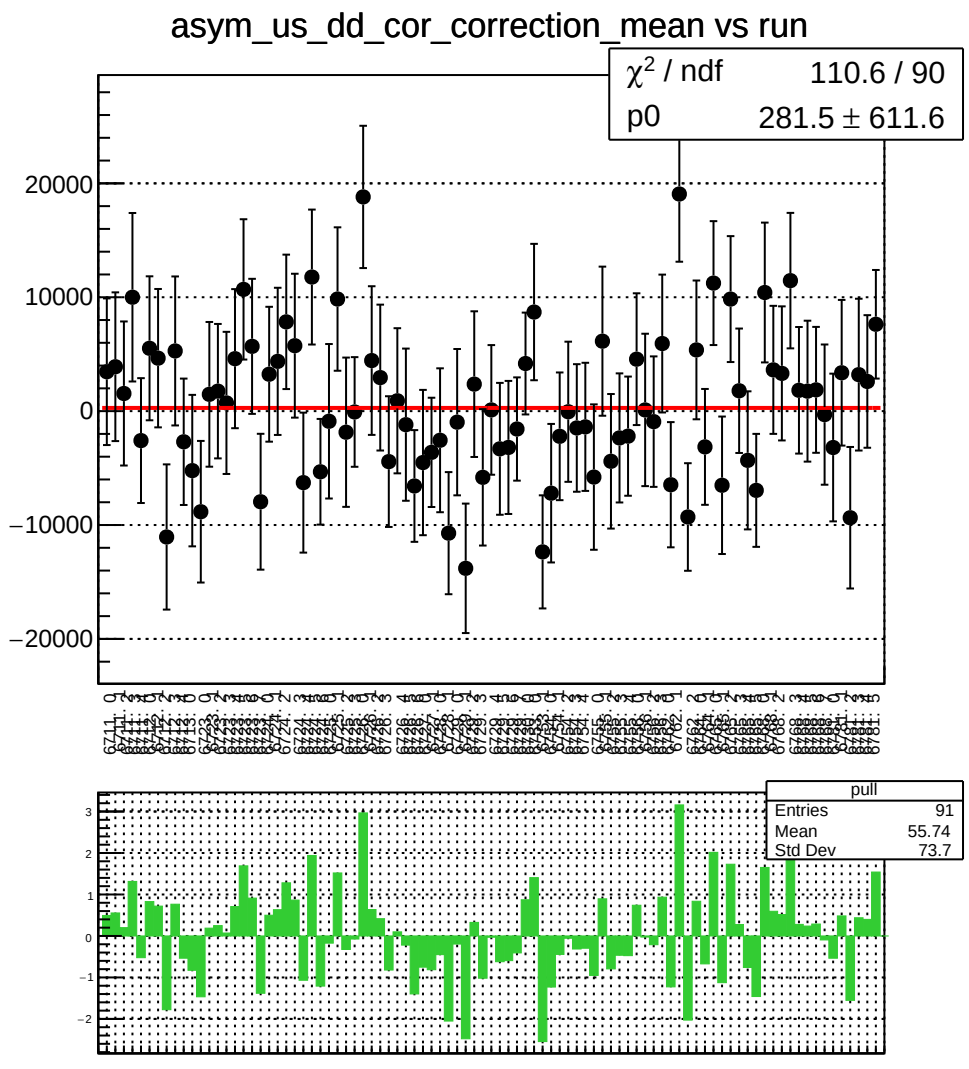

pull1D
Entries 91
Mean 0.02833
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

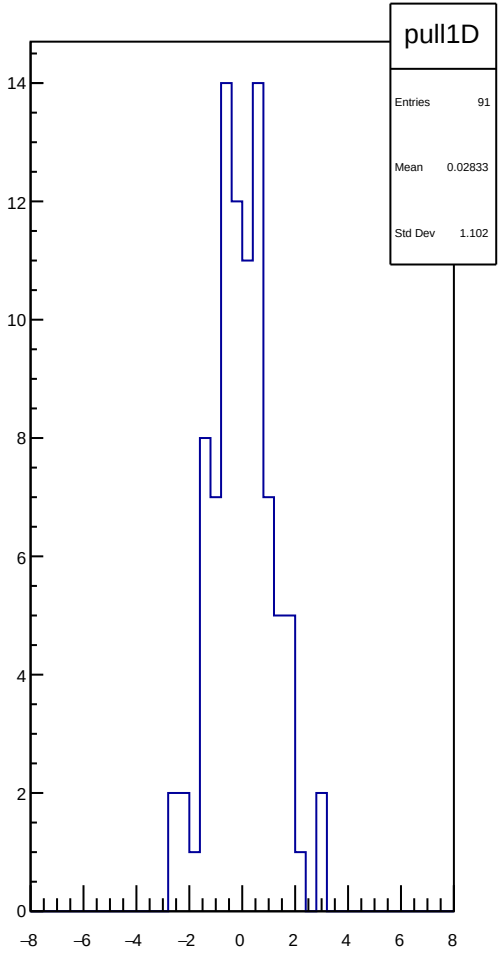

asym_us_dd_reg_correction_rms vs run
χ² / ndf 6495 / 90
p0 579.9 ± 0.4325
700
650
600
550
500

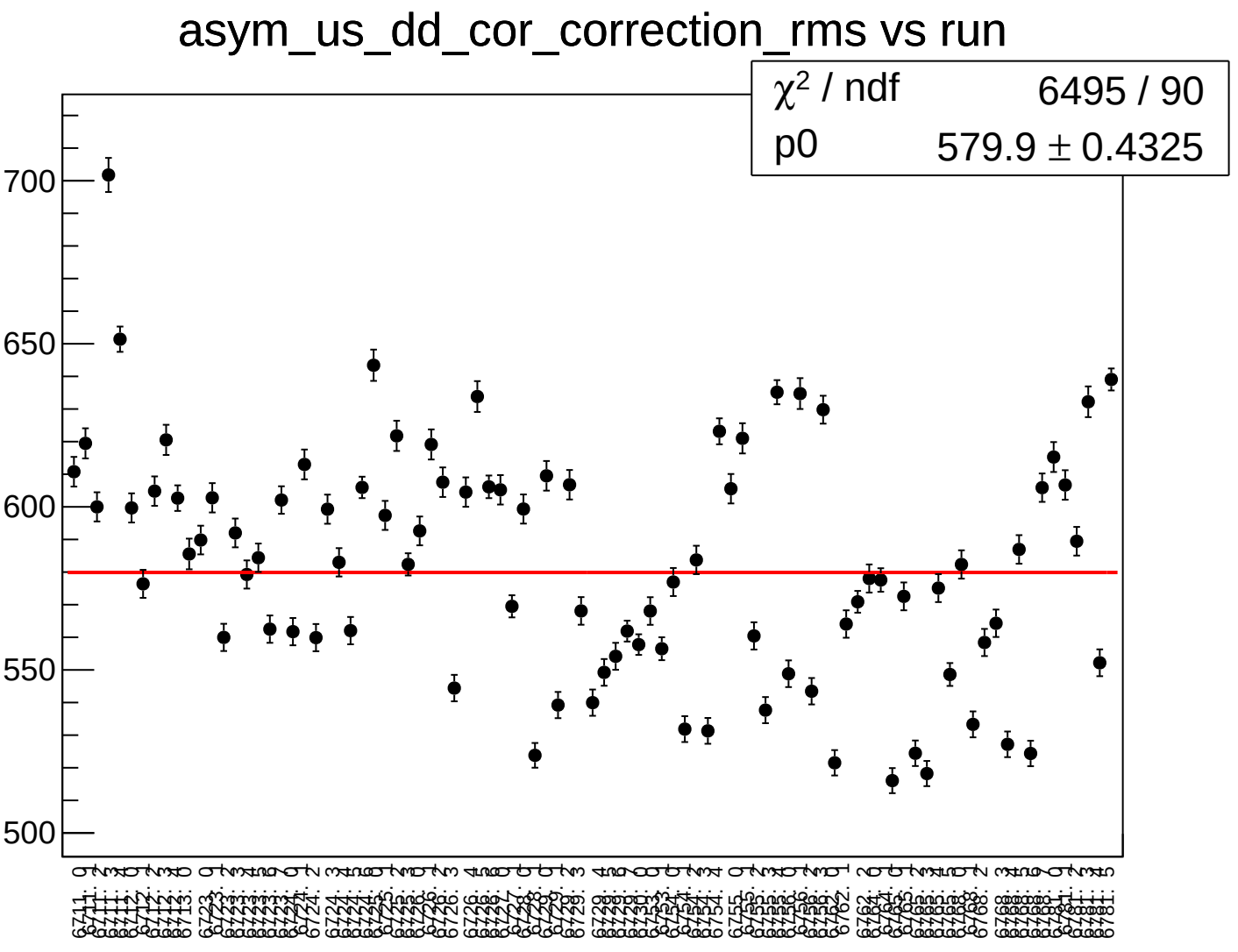

cor_asym_us_dd_mean vs run
χ² / ndf 104.7 / 90
p0 1029 ± 815.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −511.5
Std Dev 0
2
1
0
−1
−2
−3

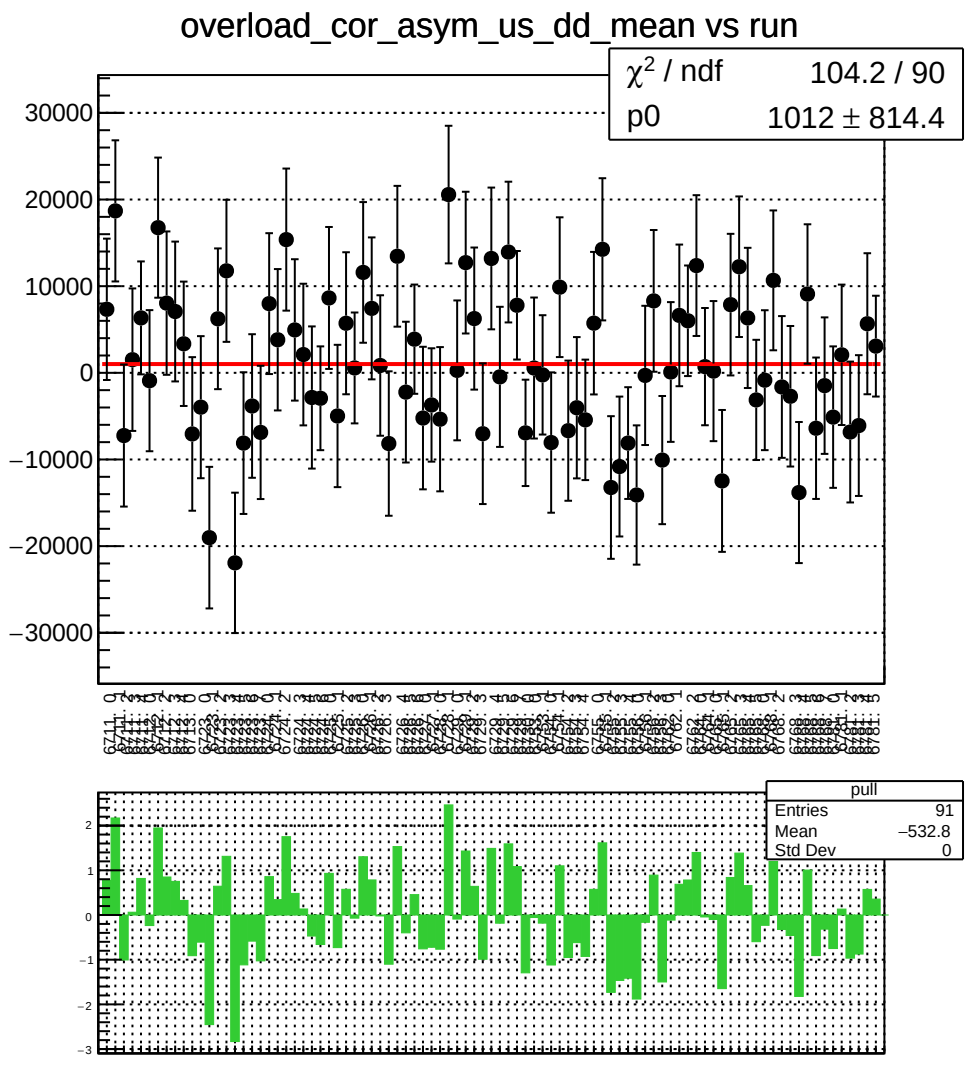

pull1D
Entries 91
Mean 0.006039
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

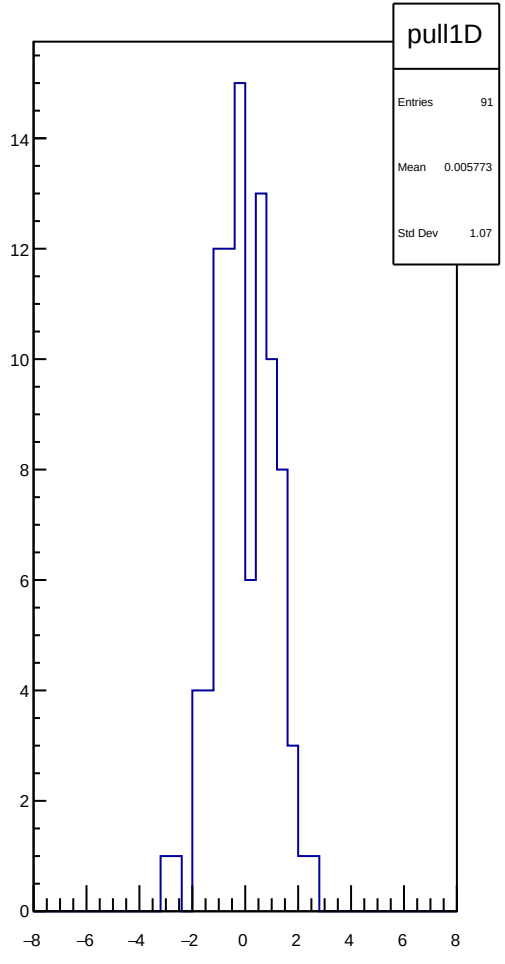

cor_asym_us_dd_rms vs run
χ² / ndf 97.25 / 90
p0 774.2 ± 0.5764
800
795
790
785
780
775
770
765
760
755

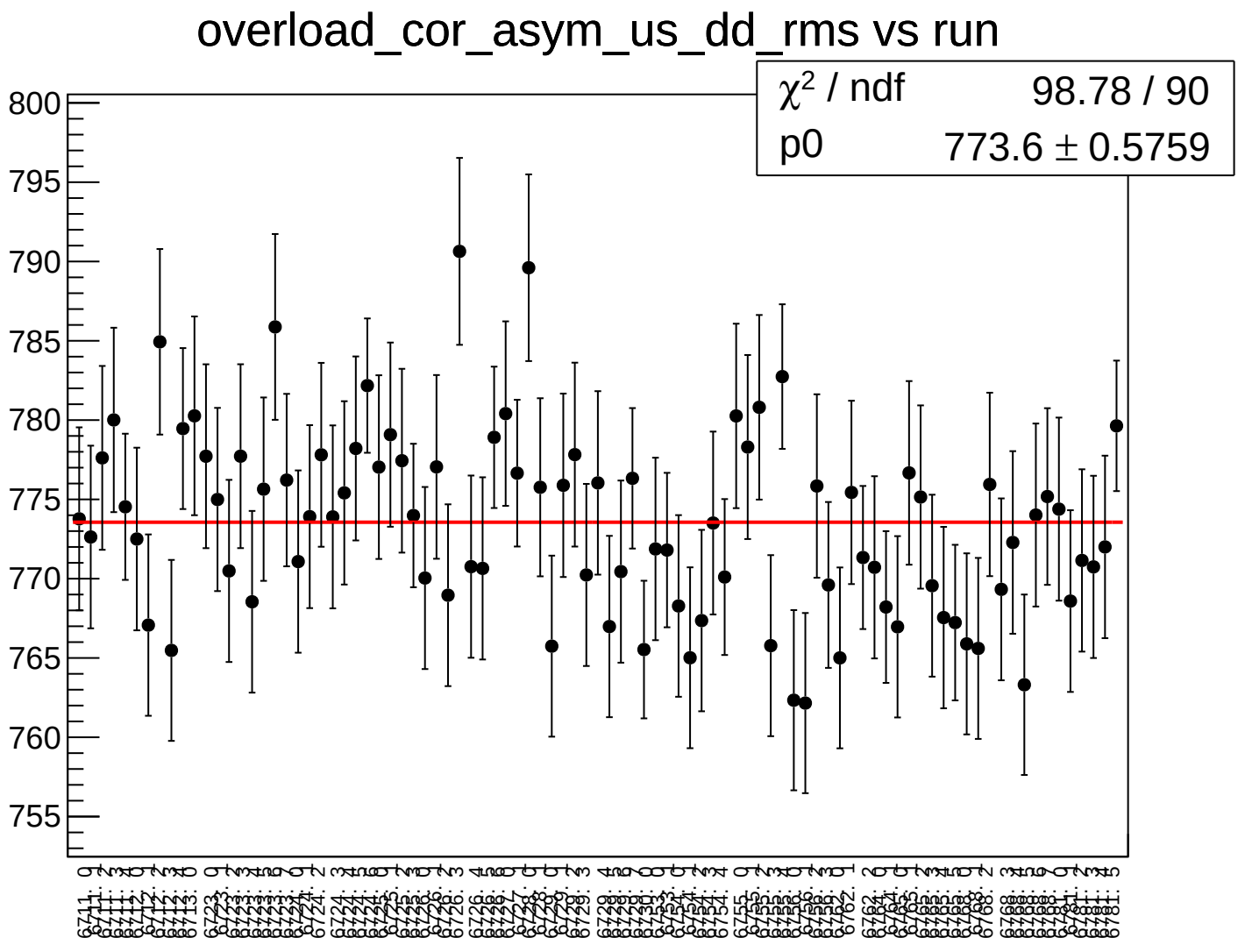

asym_us_dd_cor_correction_mean vs run
χ² / ndf 110.6 / 90
p0 281.5 ± 611.6
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 55.74
Std Dev 73.7
3
2
1
0
−1
−2

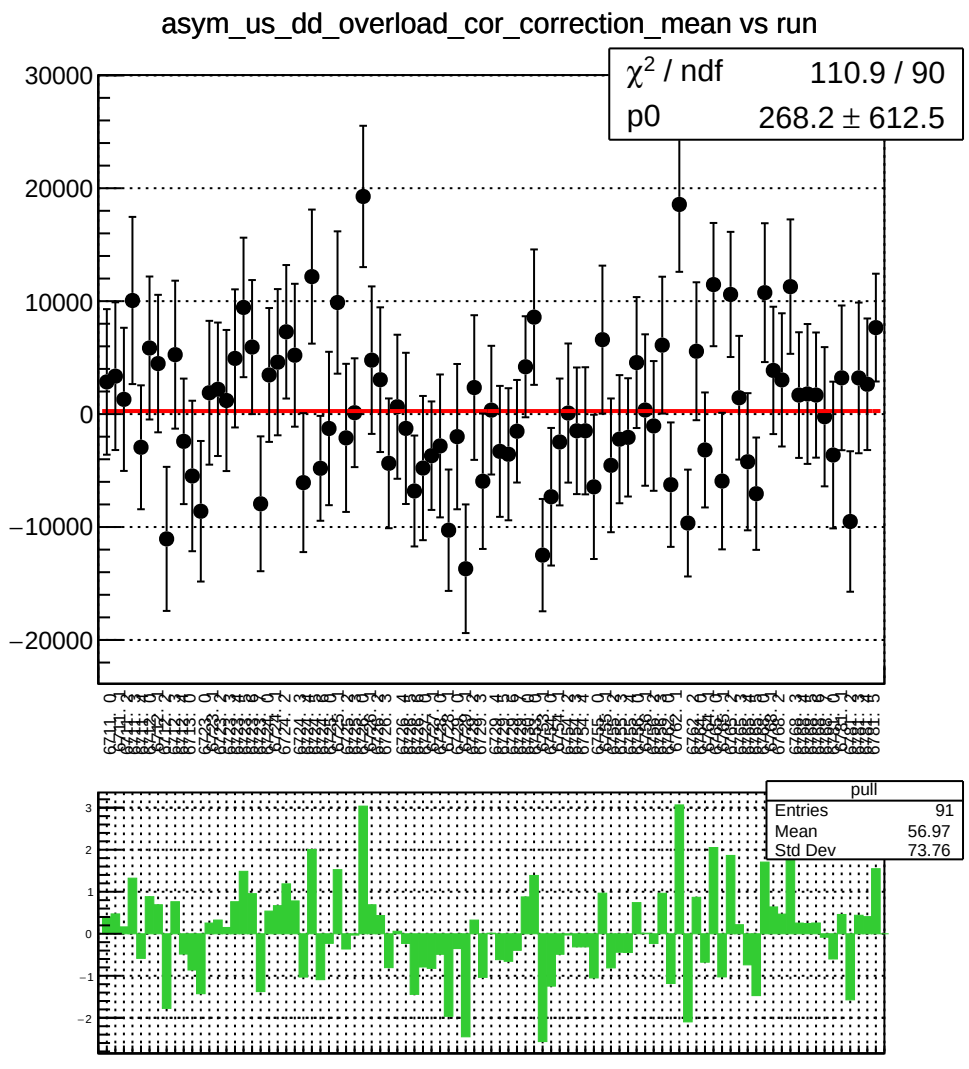

pull1D
Entries 91
Mean 0.02833
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

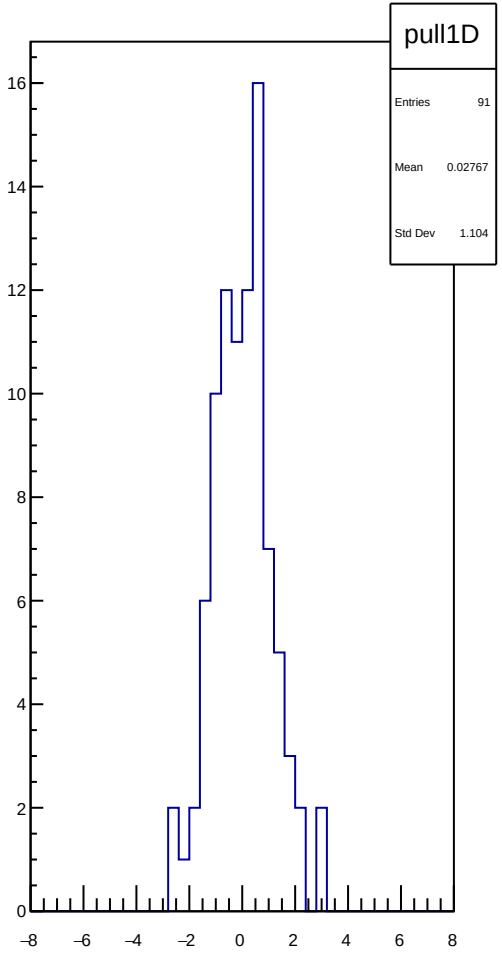

asym_us_dd_cor_correction_rms vs run
χ² / ndf 6495 / 90
p0 579.9 ± 0.4325
700
650
600
550
500

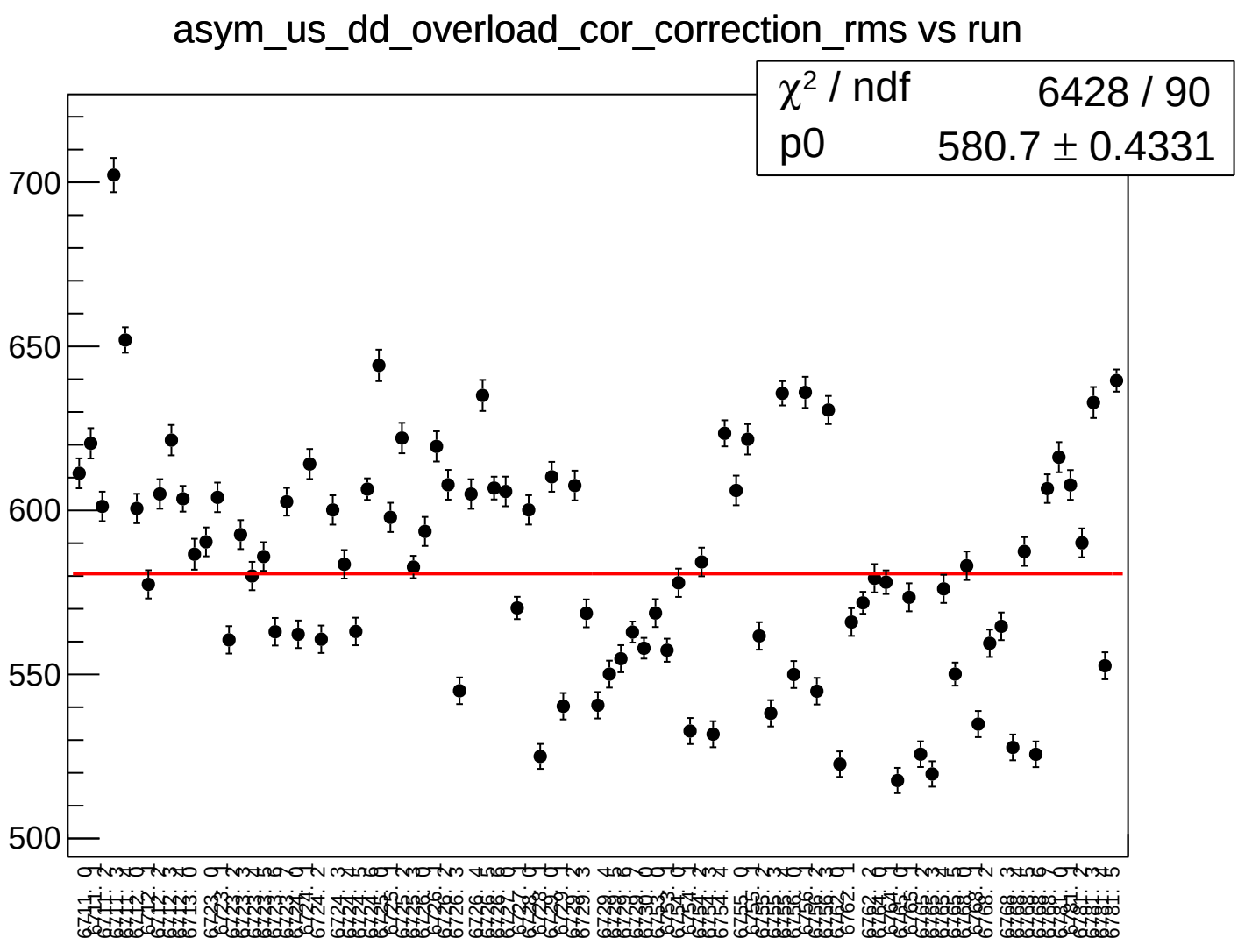

overload_cor_asym_us_dd_mean vs run
χ² / ndf 104.2 / 90
p0 1012 ± 814.4
pull
Entries 91
Mean −532.8
Std Dev 0

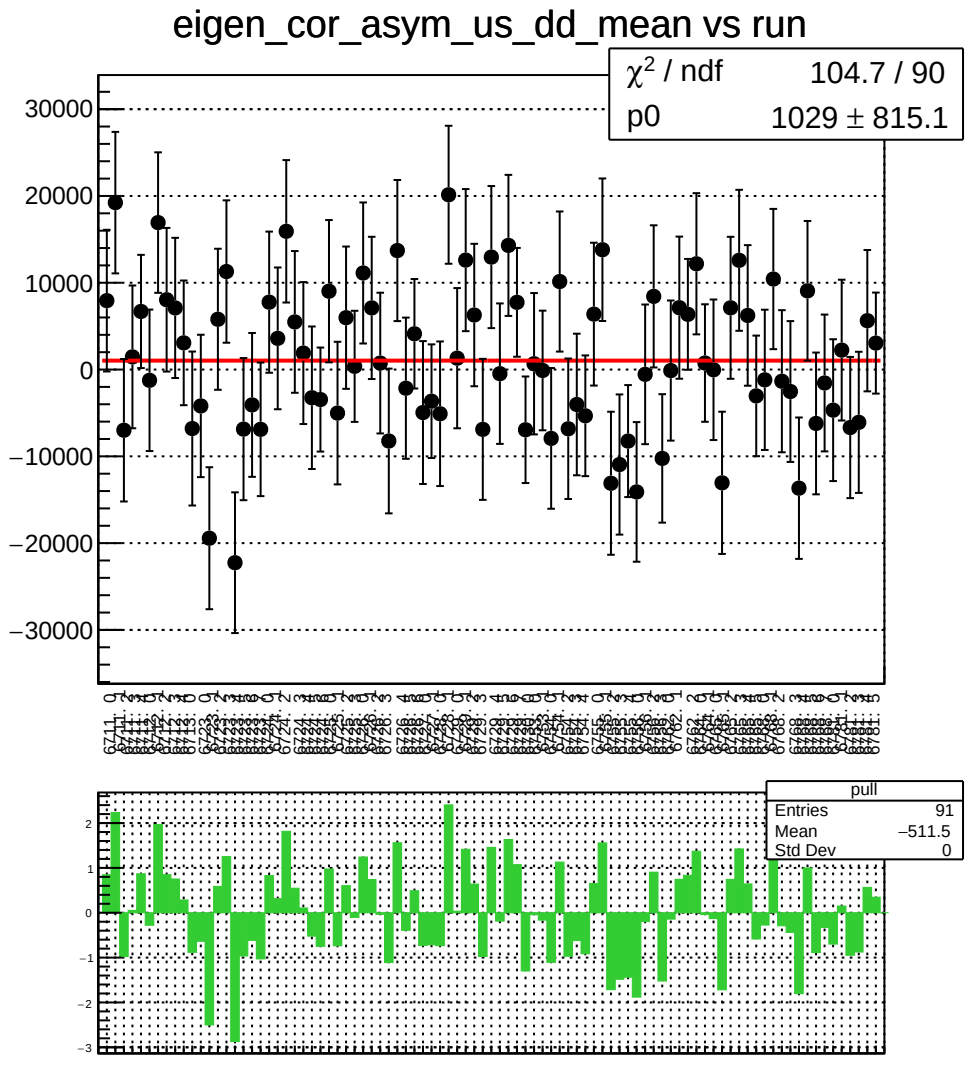

pull1D
Entries 91
Mean 0.005773
Std Dev 1.07

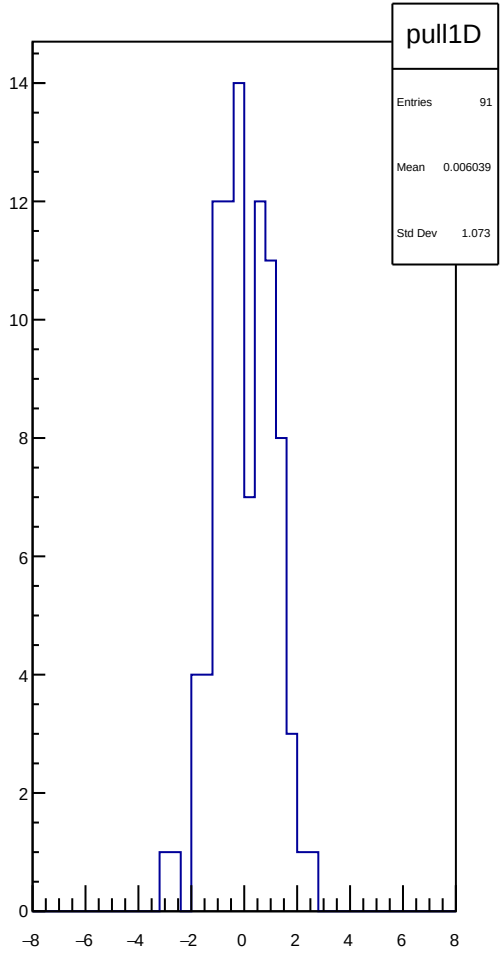

overload_cor_asym_us_dd_rms vs run
χ² / ndf 98.78 / 90
p0 773.6 ± 0.5759
800
795
790
785
780
775
770
765
760
755


asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 110.9 / 90
p0 268.2 ± 612.5
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 56.97
Std Dev 73.76
3
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.02767
Std Dev 1.104
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 6428 / 90
p0 580.7 ± 0.4331
700
650
600
550
500


eigen_cor_asym_us_dd_mean vs run
χ² / ndf 104.7 / 90
p0 1029 ± 815.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −511.5
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean 0.006039
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
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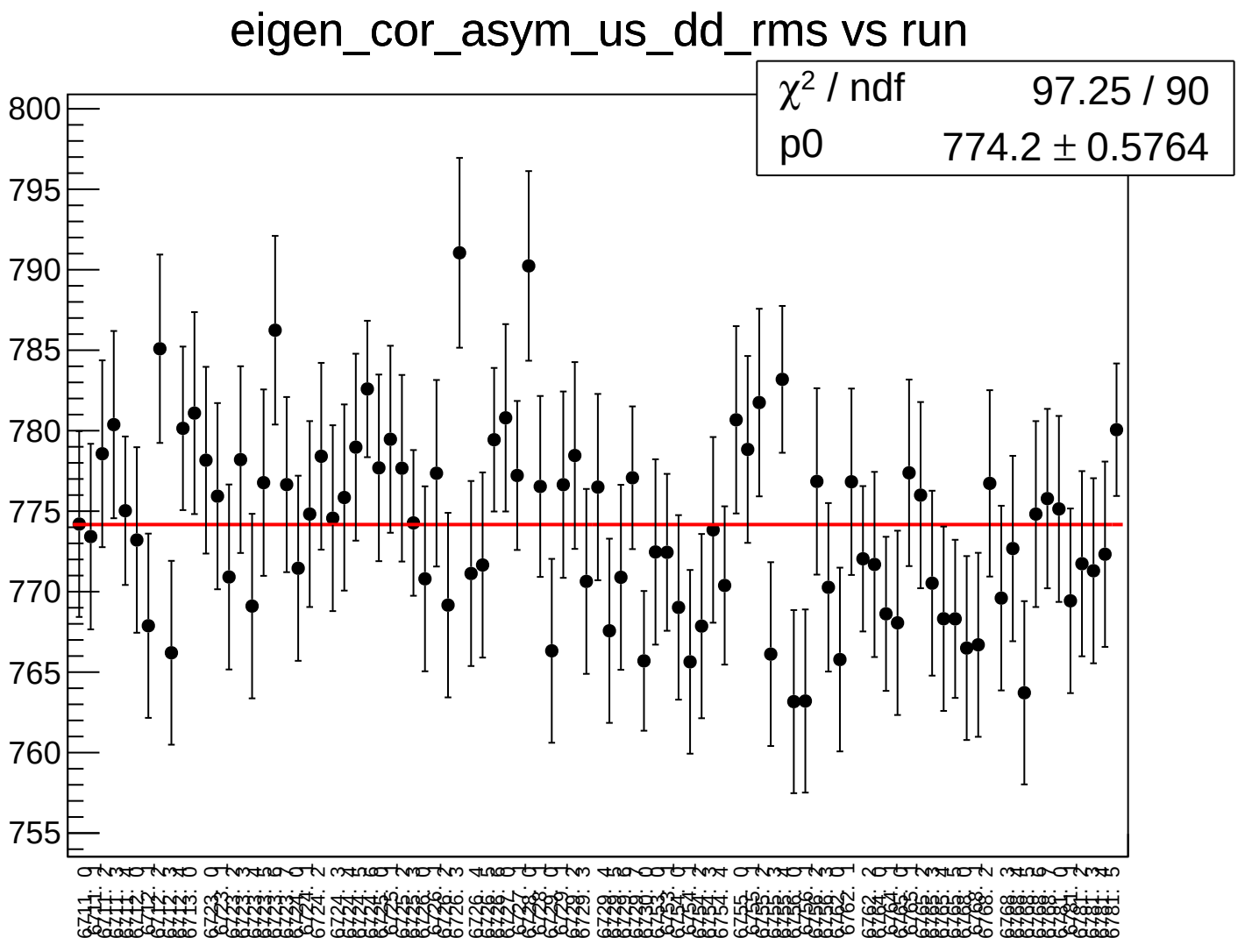
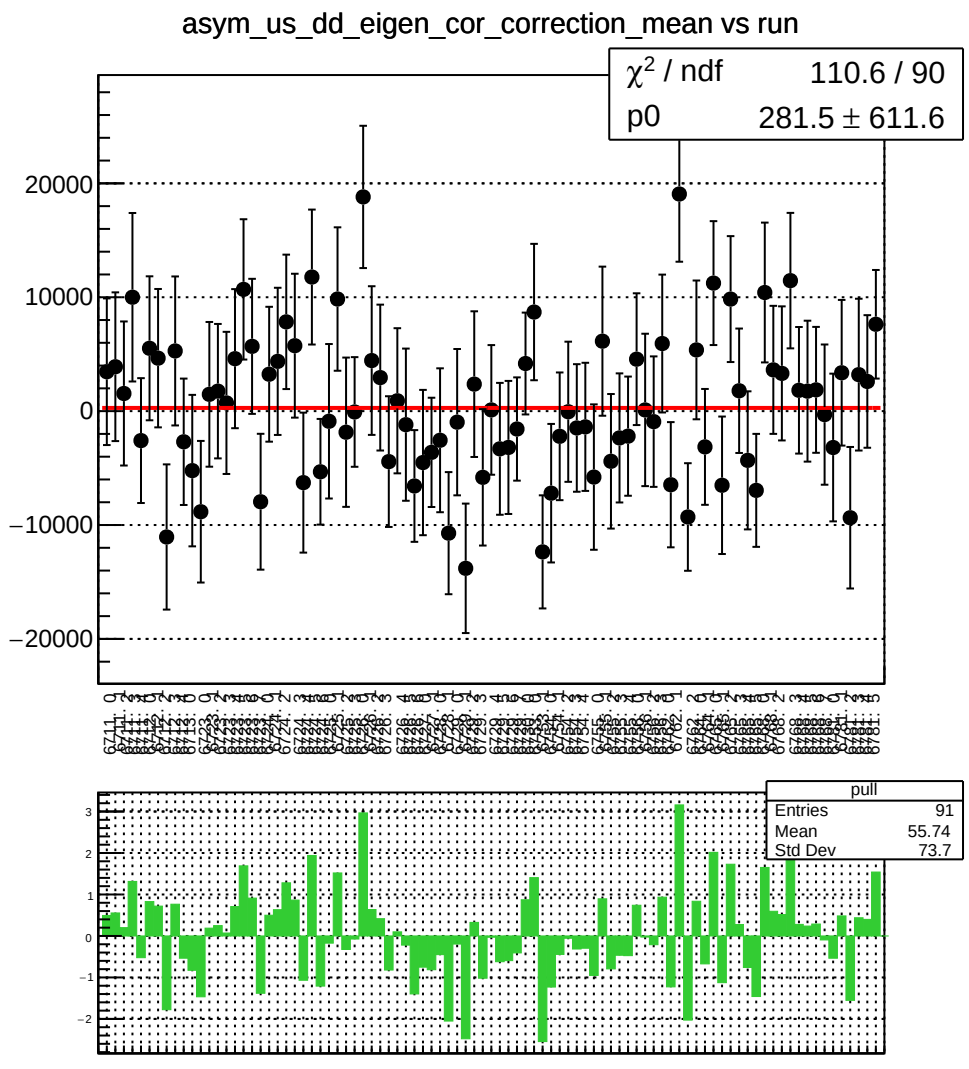
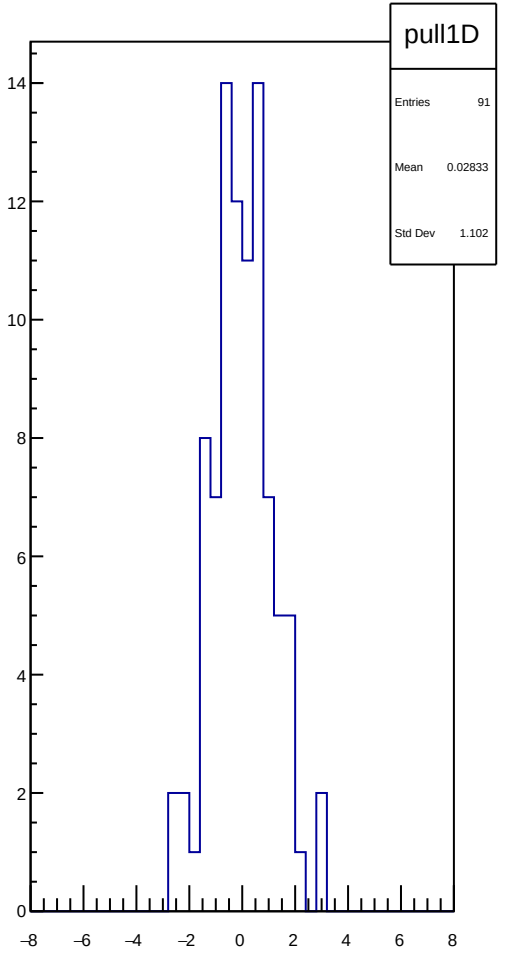
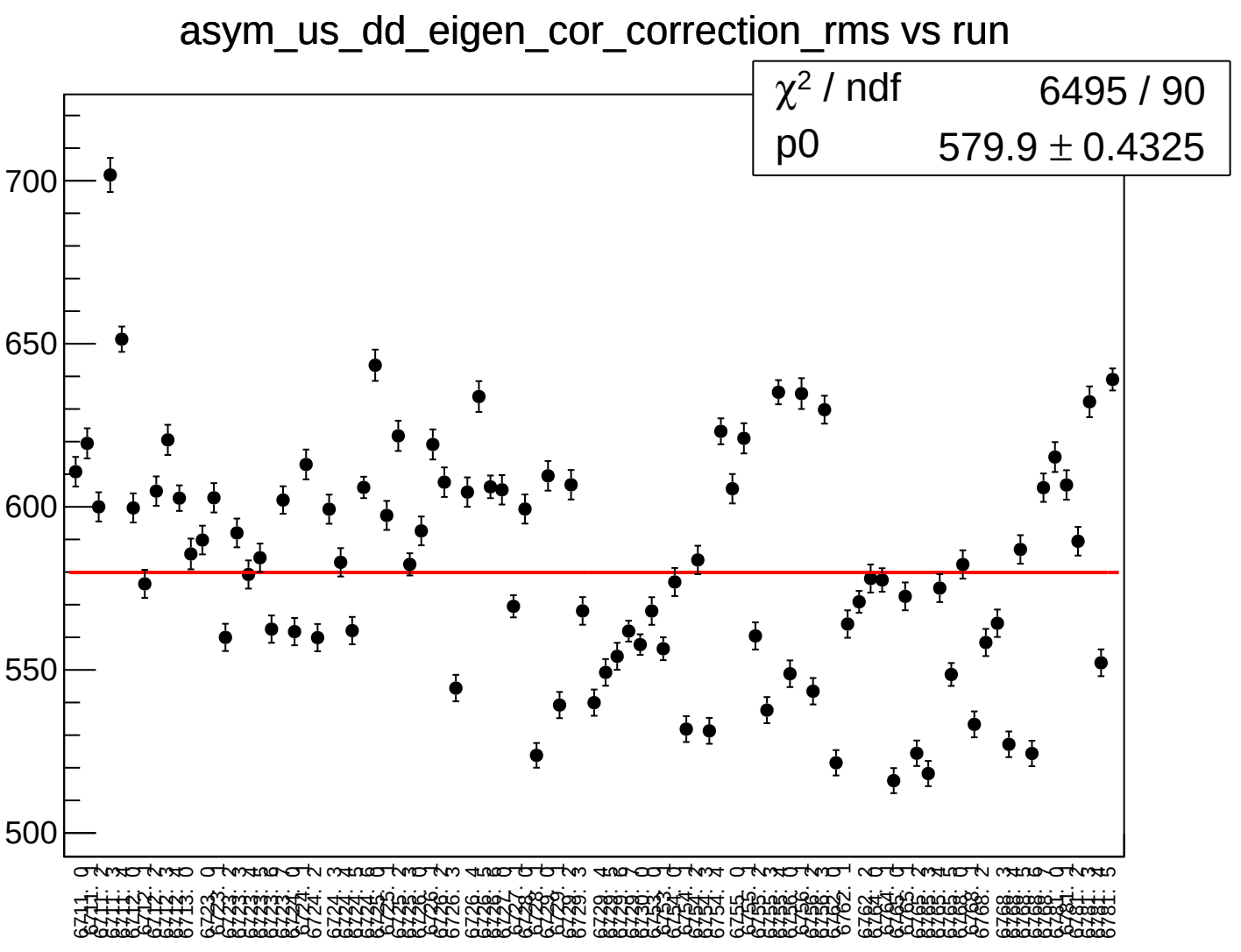
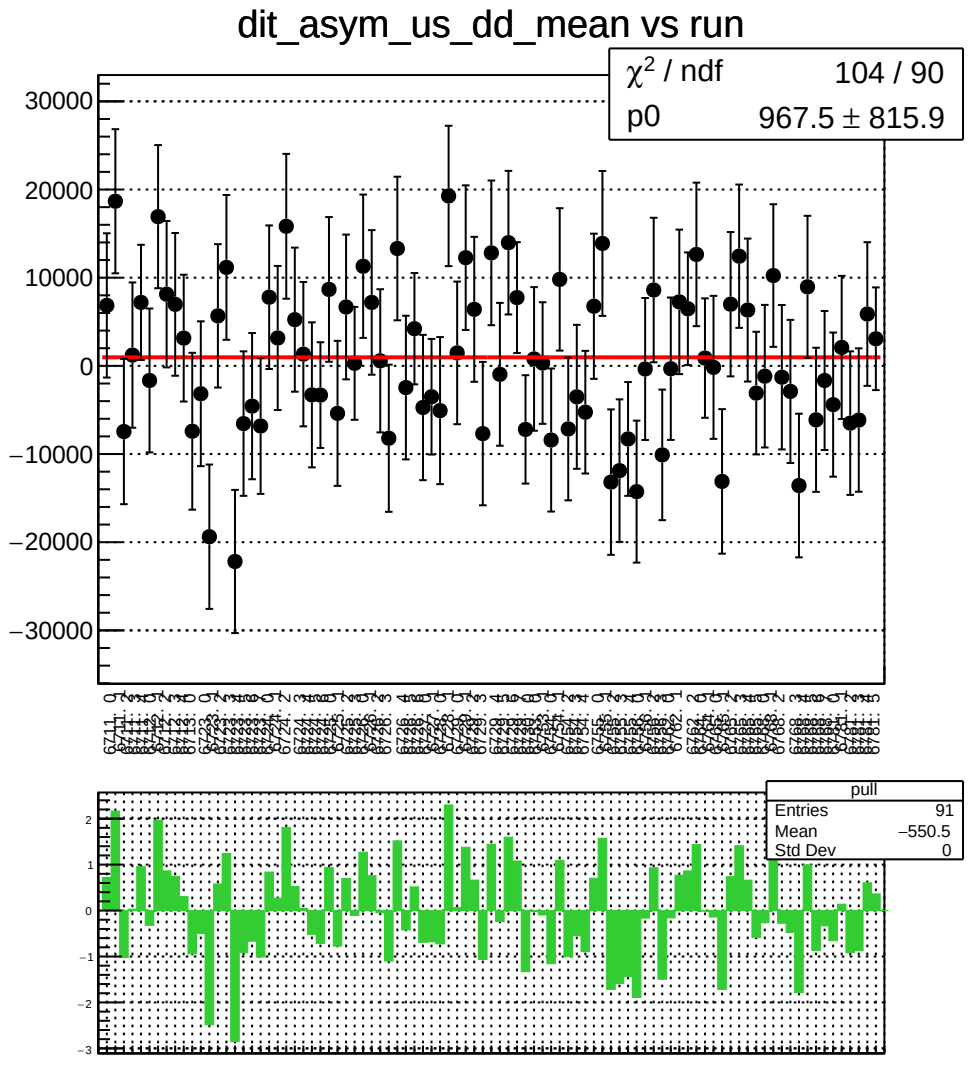
0
2
4
6
8

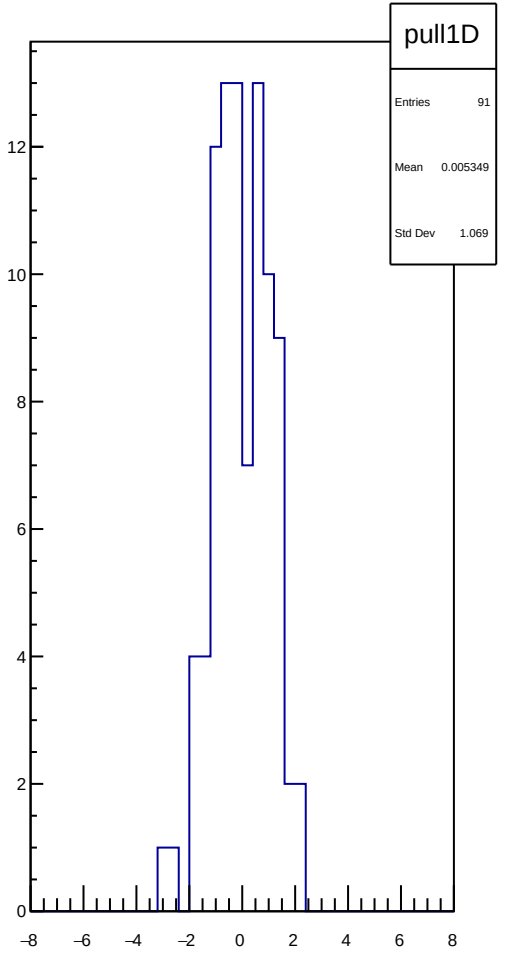

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 97.25 / 90
p0 774.2 ± 0.5764
800
795
790
785
780
775
770
765
760
755

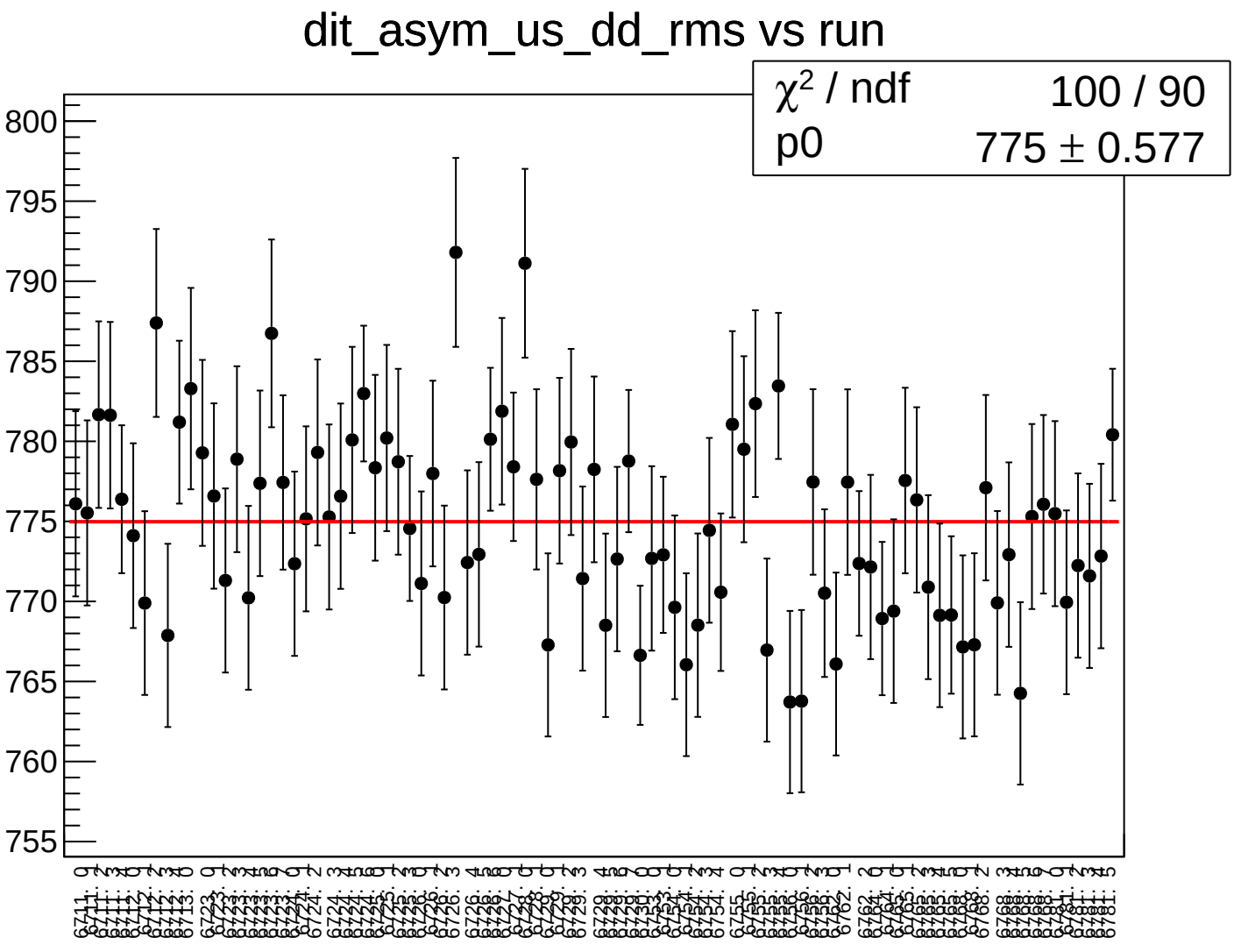

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 110.6 / 90
p0 281.5 ± 611.6
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 55.74
Std Dev 73.7
3
2
1
0
−1
−2

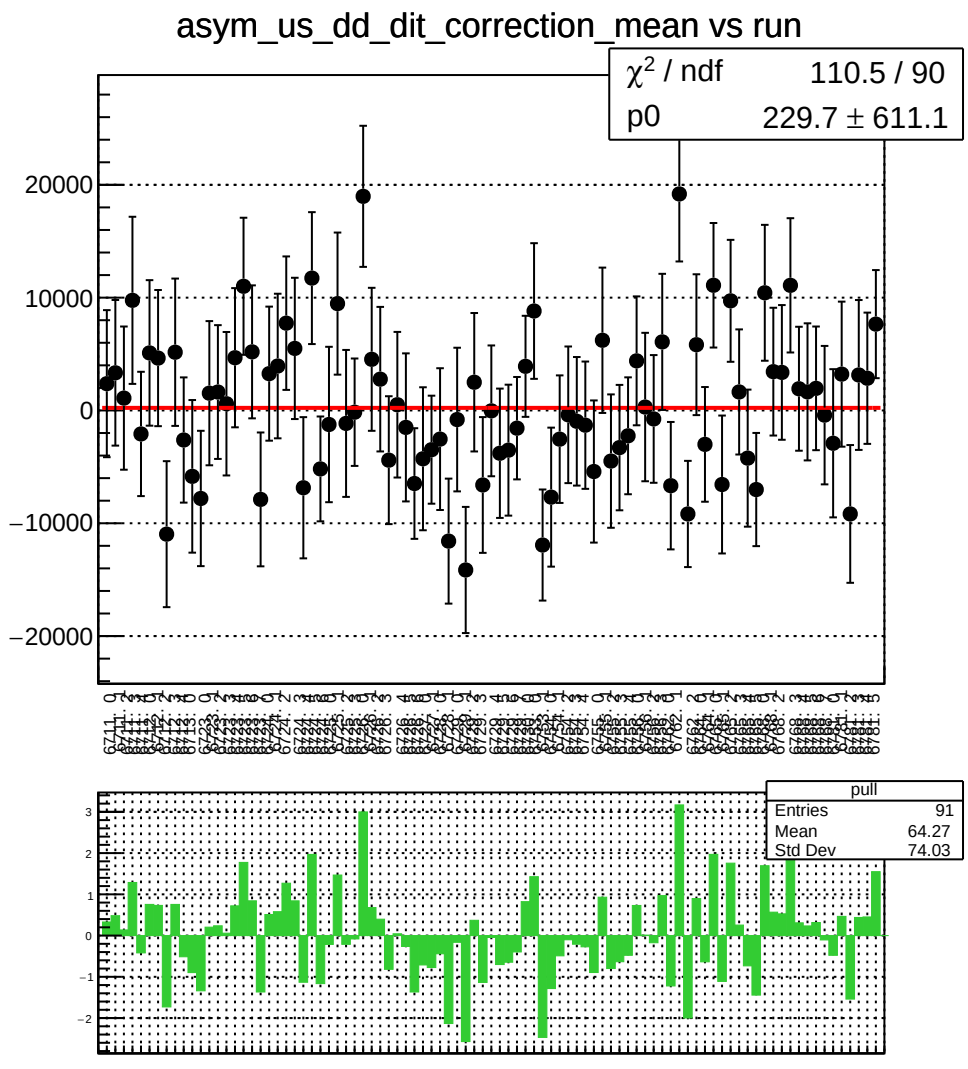

pull1D
Entries 91
Mean 0.02833
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

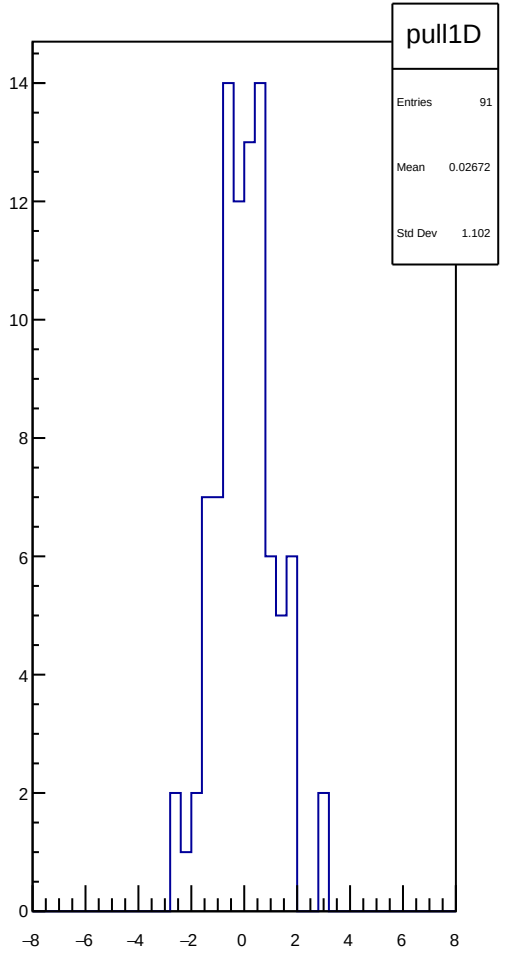

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 6495 / 90
p0 579.9 ± 0.4325
700
650
600
550
500

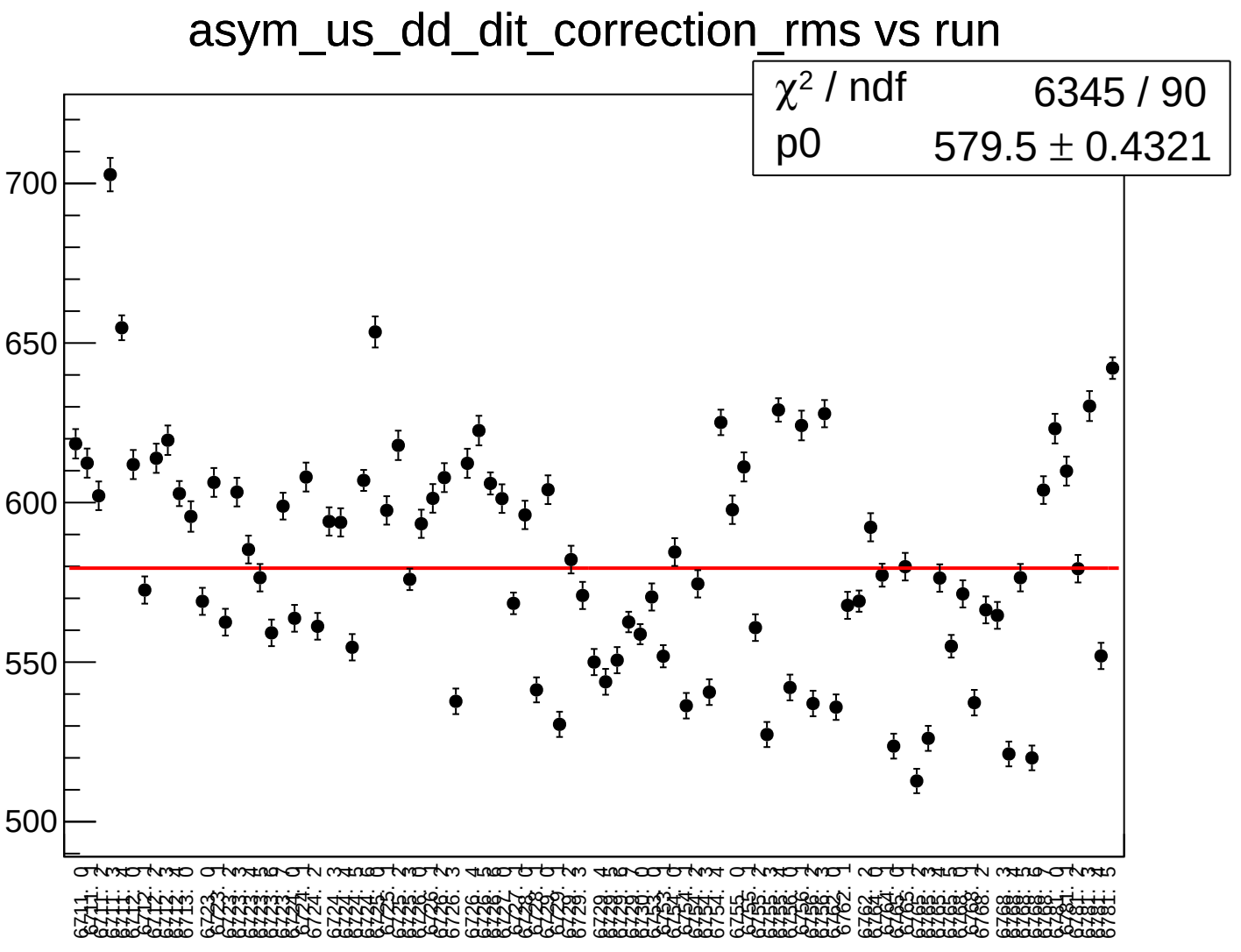

dit_asym_us_dd_mean vs run
χ² / ndf 104 / 90
p0 967.5 ± 815.9
pull
Entries 91
Mean −550.5
Std Dev 0

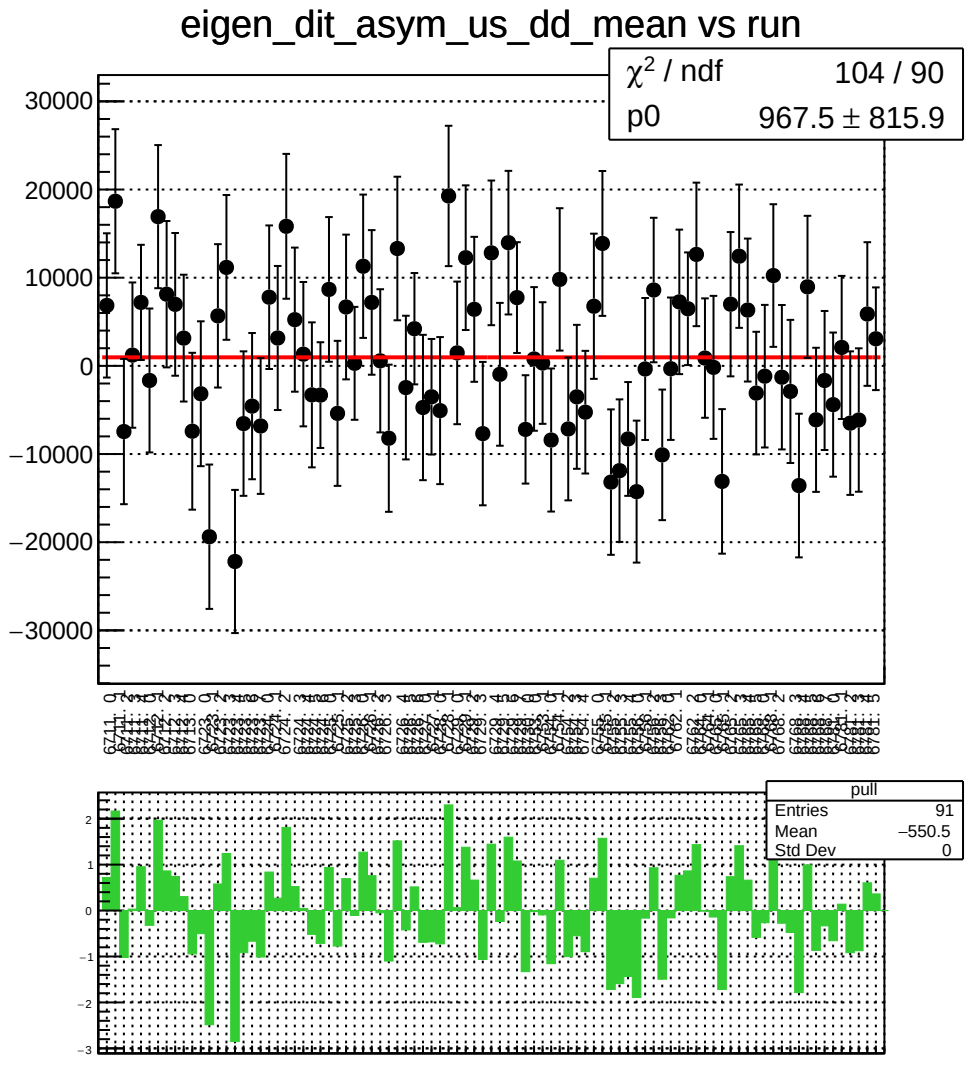

pull1D
Entries 91
Mean 0.005349
Std Dev 1.069

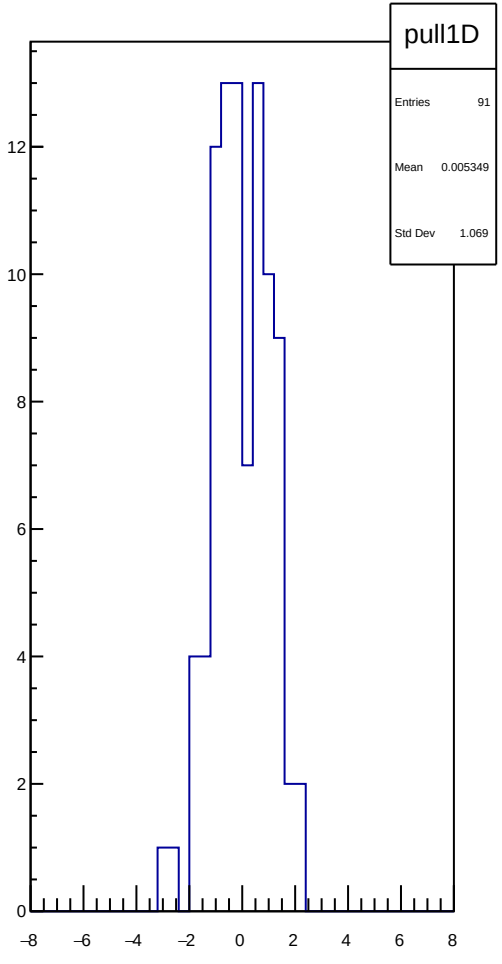

dit_asym_us_dd_rms vs run
χ² / ndf 100 / 90
p0 775 ± 0.577
800
795
790
785
780
775
770
765
760
755

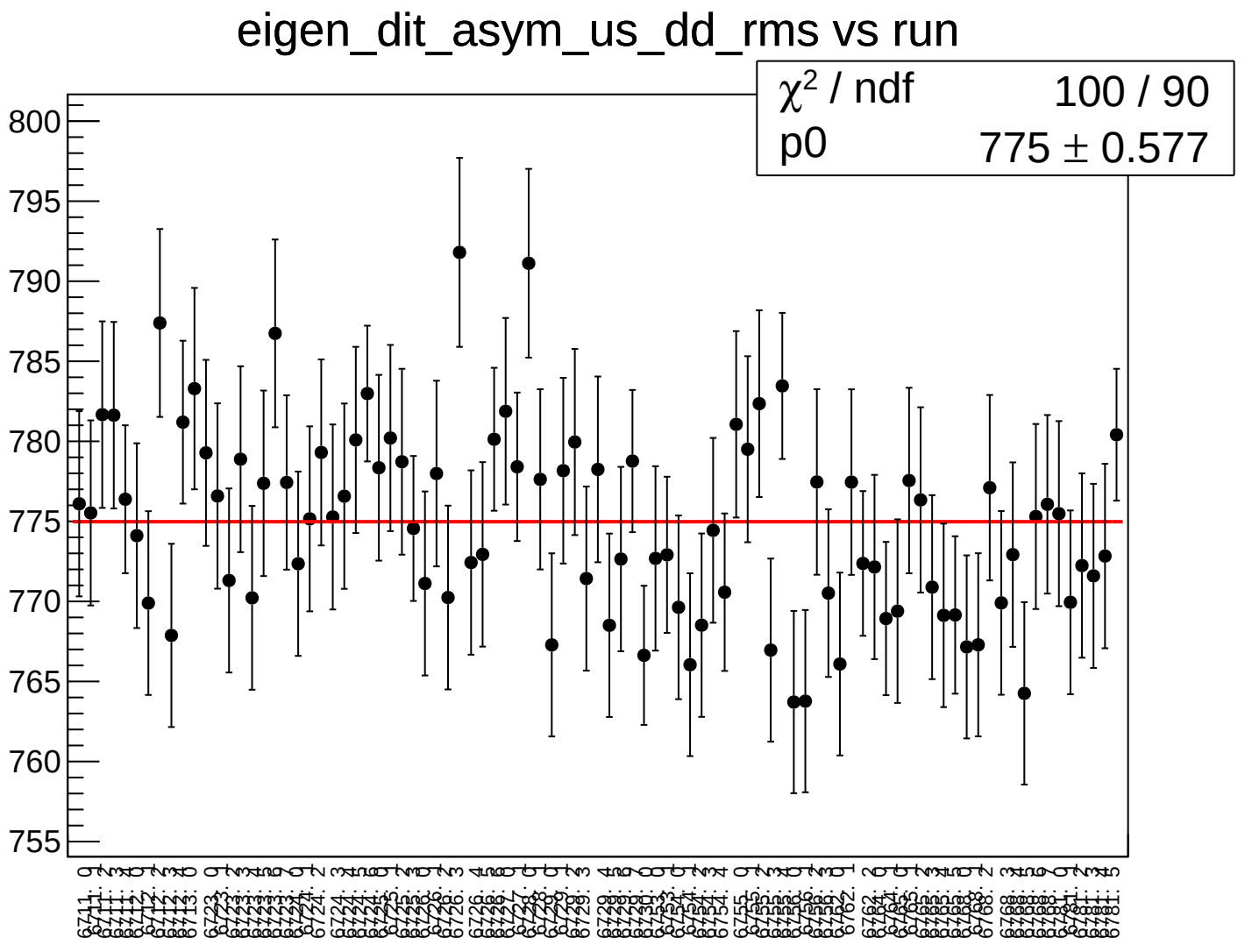

asym_us_dd_dit_correction_mean vs run
χ² / ndf 110.5 / 90
p0 229.7 ± 611.1
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 64.27
Std Dev 74.03
3
2
1
0
−1
−2

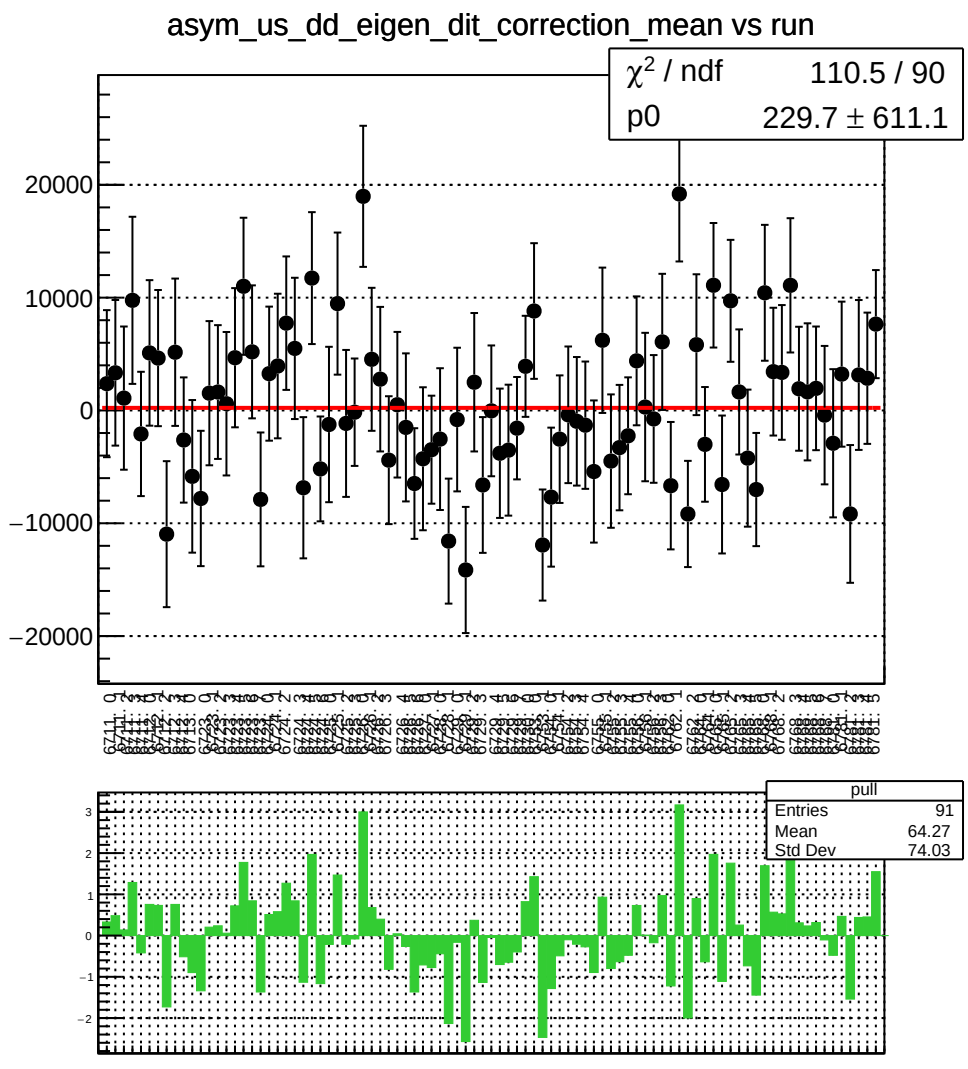

pull1D
Entries 91
Mean 0.02672
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

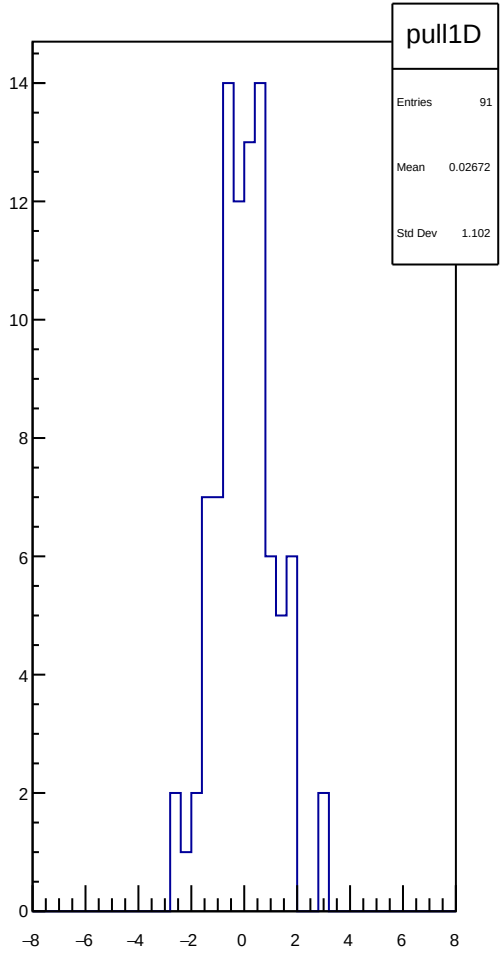

asym_us_dd_dit_correction_rms vs run
χ² / ndf 6345 / 90
p0 579.5 ± 0.4321
700
650
600
550
500

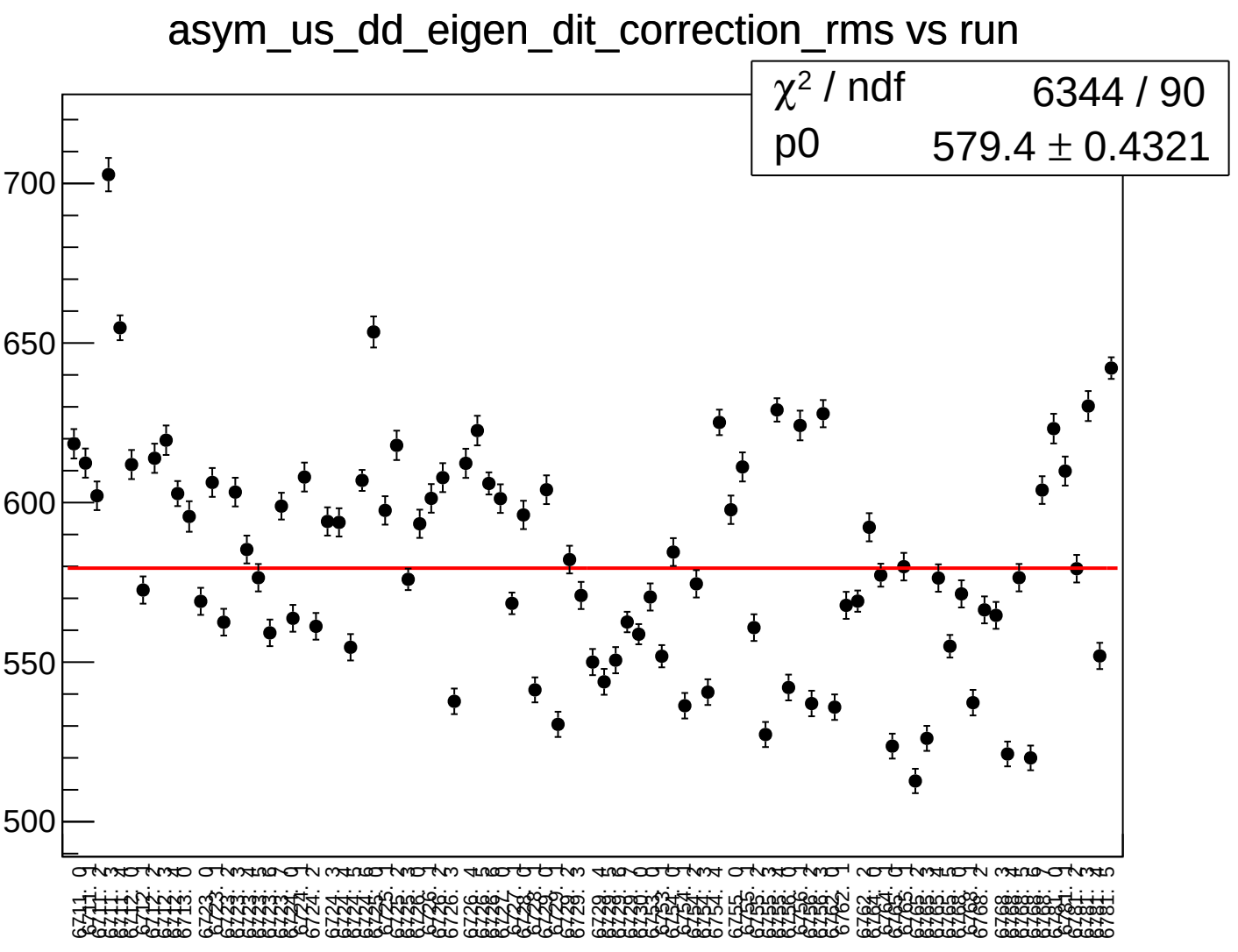

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 104 / 90
p0 967.5 ± 815.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −550.5
Std Dev 0
2
1
0
−1
−2
−3

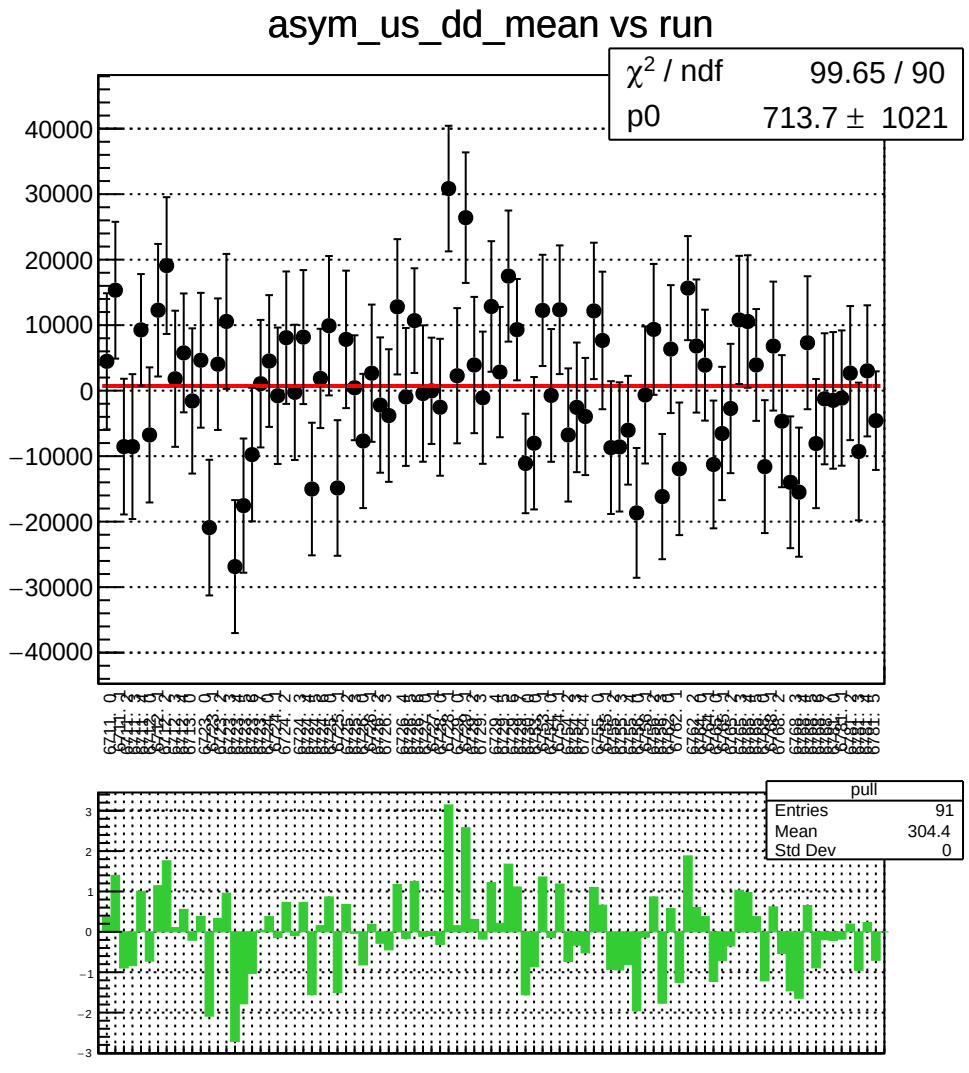

pull1D
Entries 91
Mean 0.005349
Std Dev 1.069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

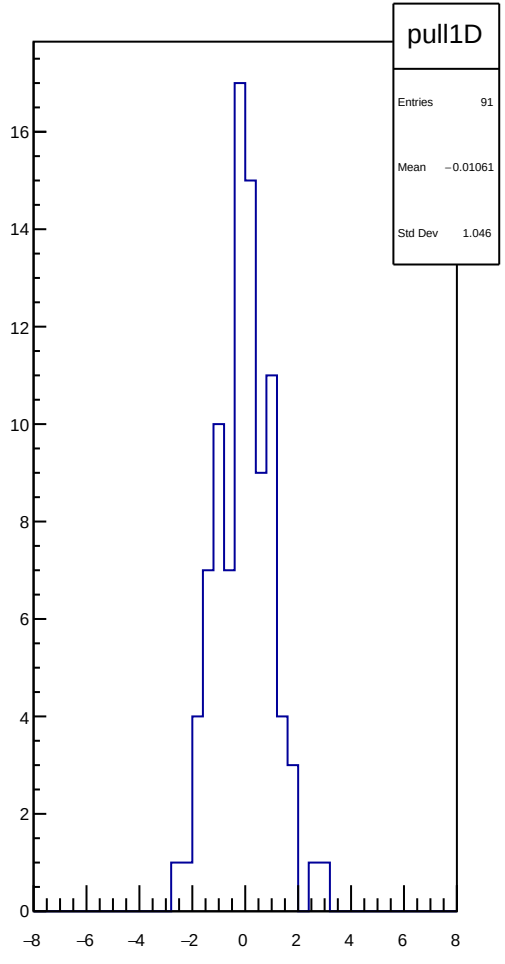

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 100 / 90
p0 775 ± 0.577
800
795
790
785
780
775
770
765
760
755

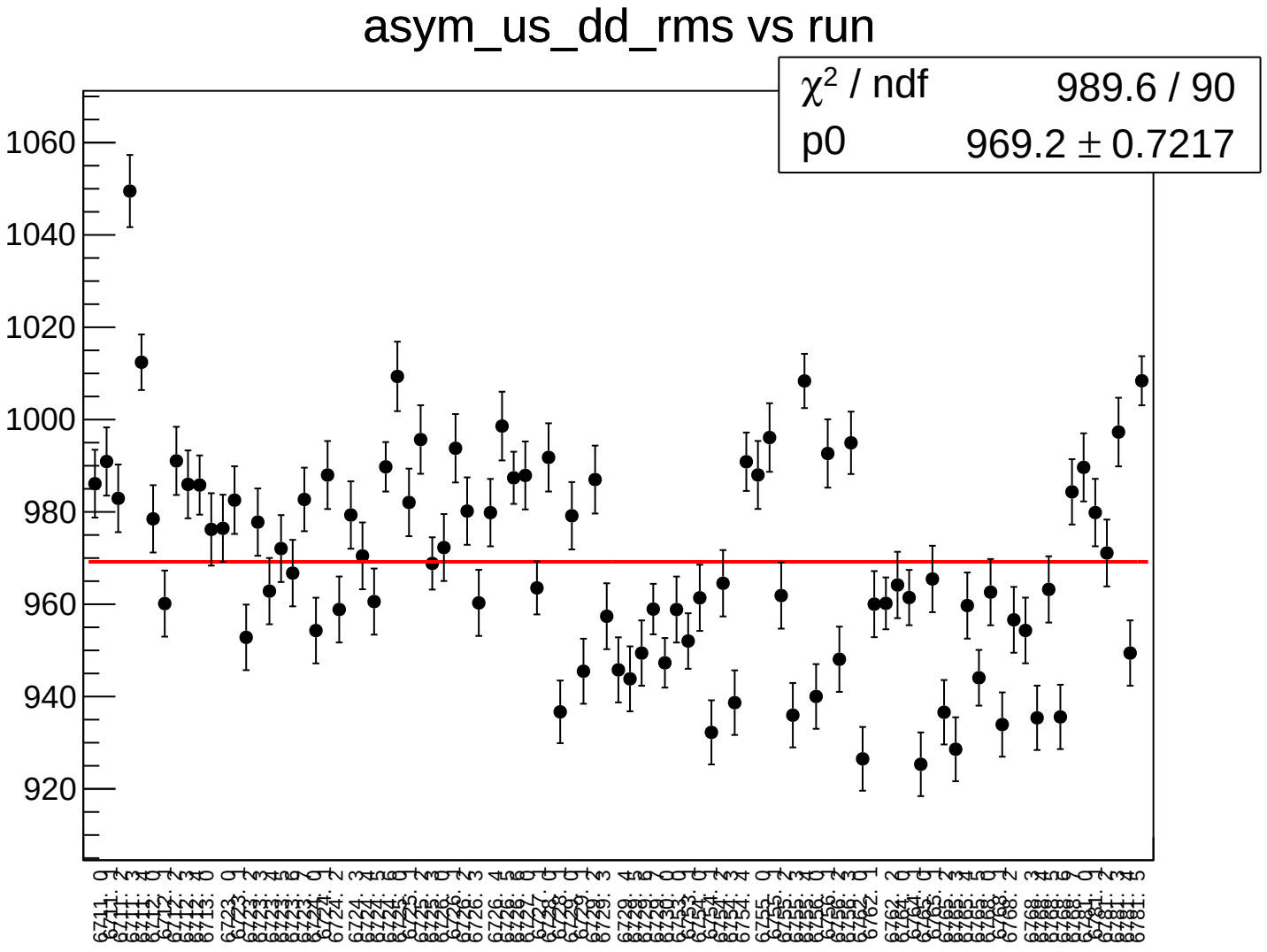

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 110.5 / 90
p0 229.7 ± 611.1
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 64.27
Std Dev 74.03
3
2
1
0
−1
−2

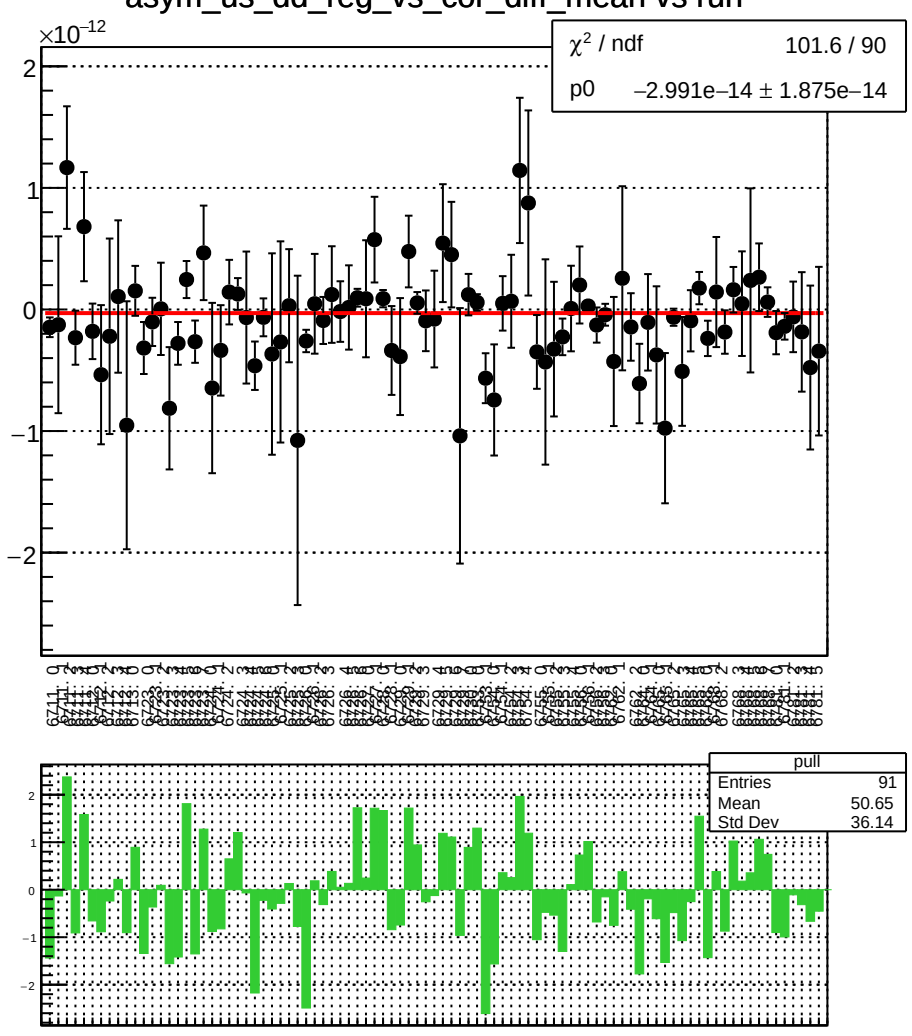

pull1D
Entries 91
Mean 0.02672
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

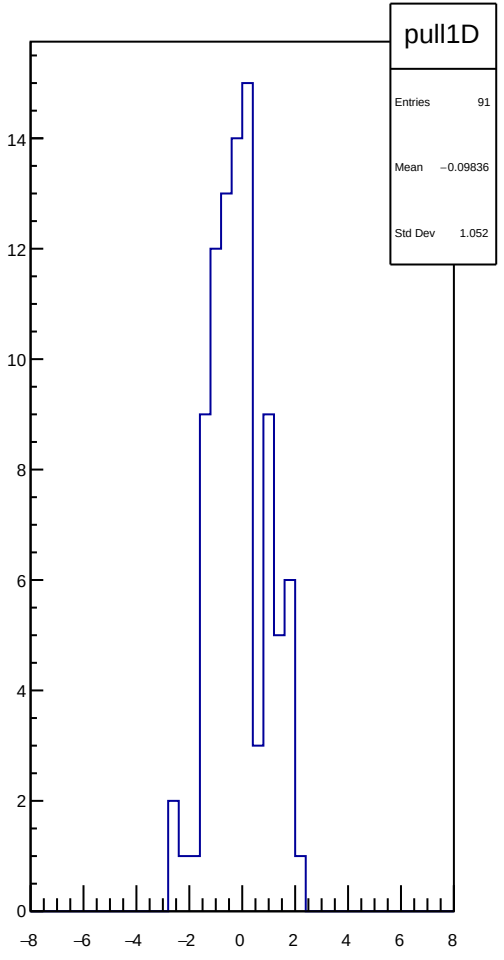

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 6344 / 90
p0 579.4 ± 0.4321
700
650
600
550
500

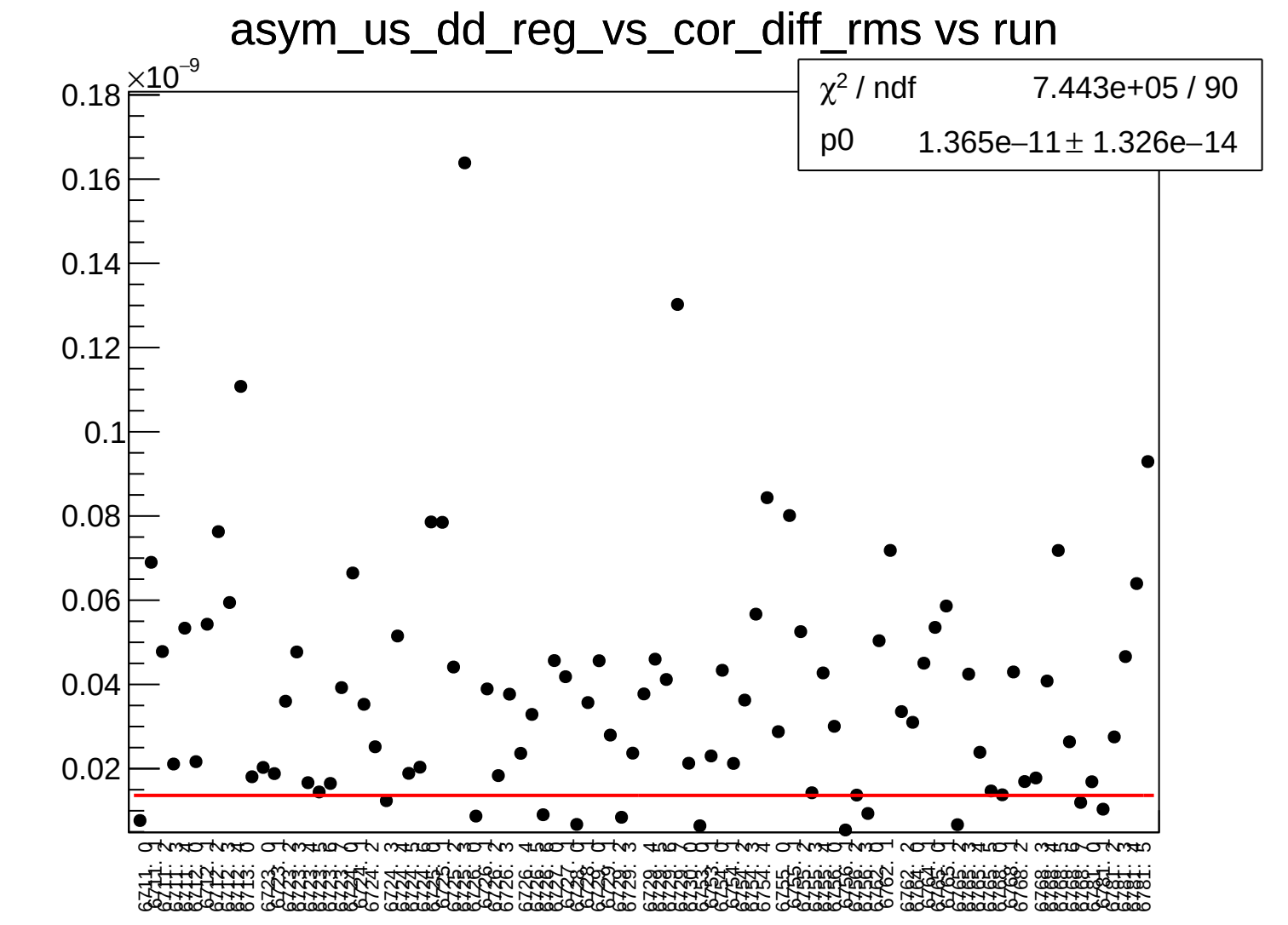

asym_us_dd_mean vs run
χ² / ndf 99.65 / 90
p0 713.7 ± 1021
pull
Entries 91
Mean 304.4
Std Dev 0

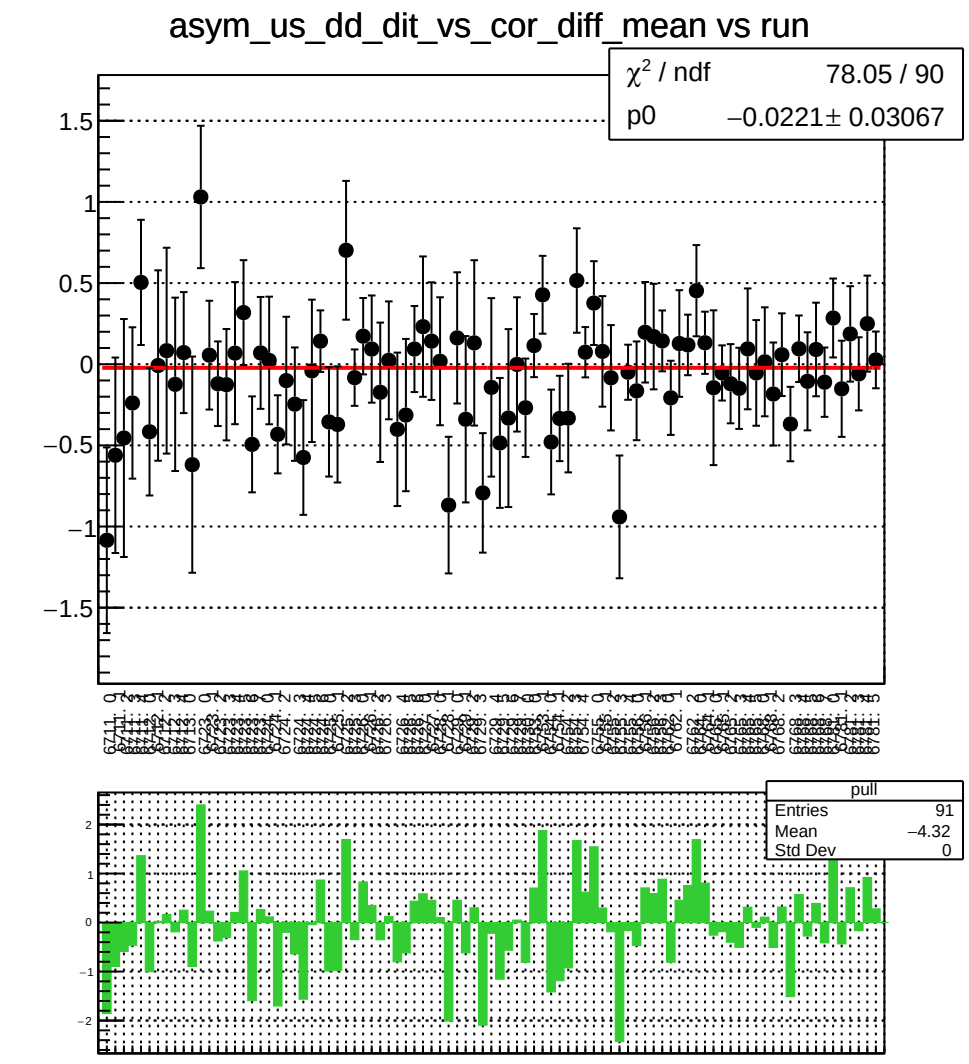

pull1D
Entries 91
Mean −0.01061
Std Dev 1.046

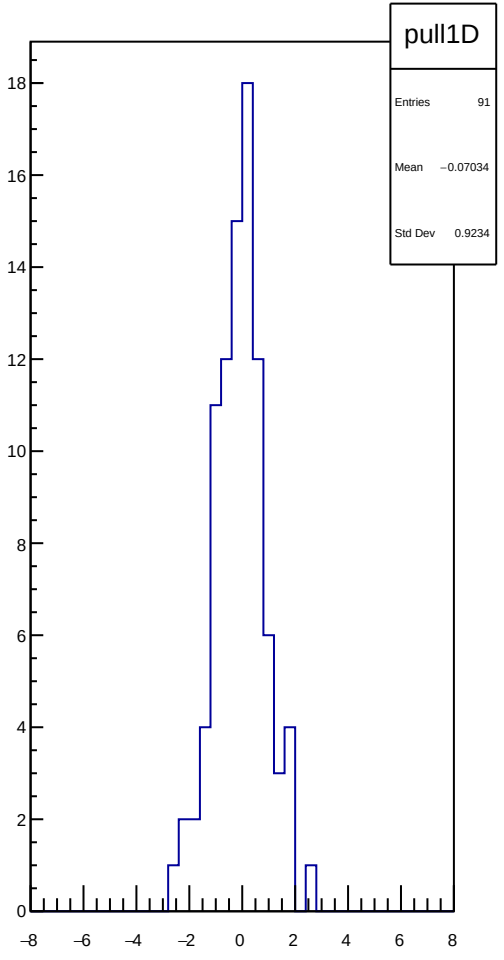

asym_us_dd_rms vs run
χ² / ndf 989.6 / 90
p0 969.2 ± 0.7217
1060
1040
1020
1000
980
960
940
920

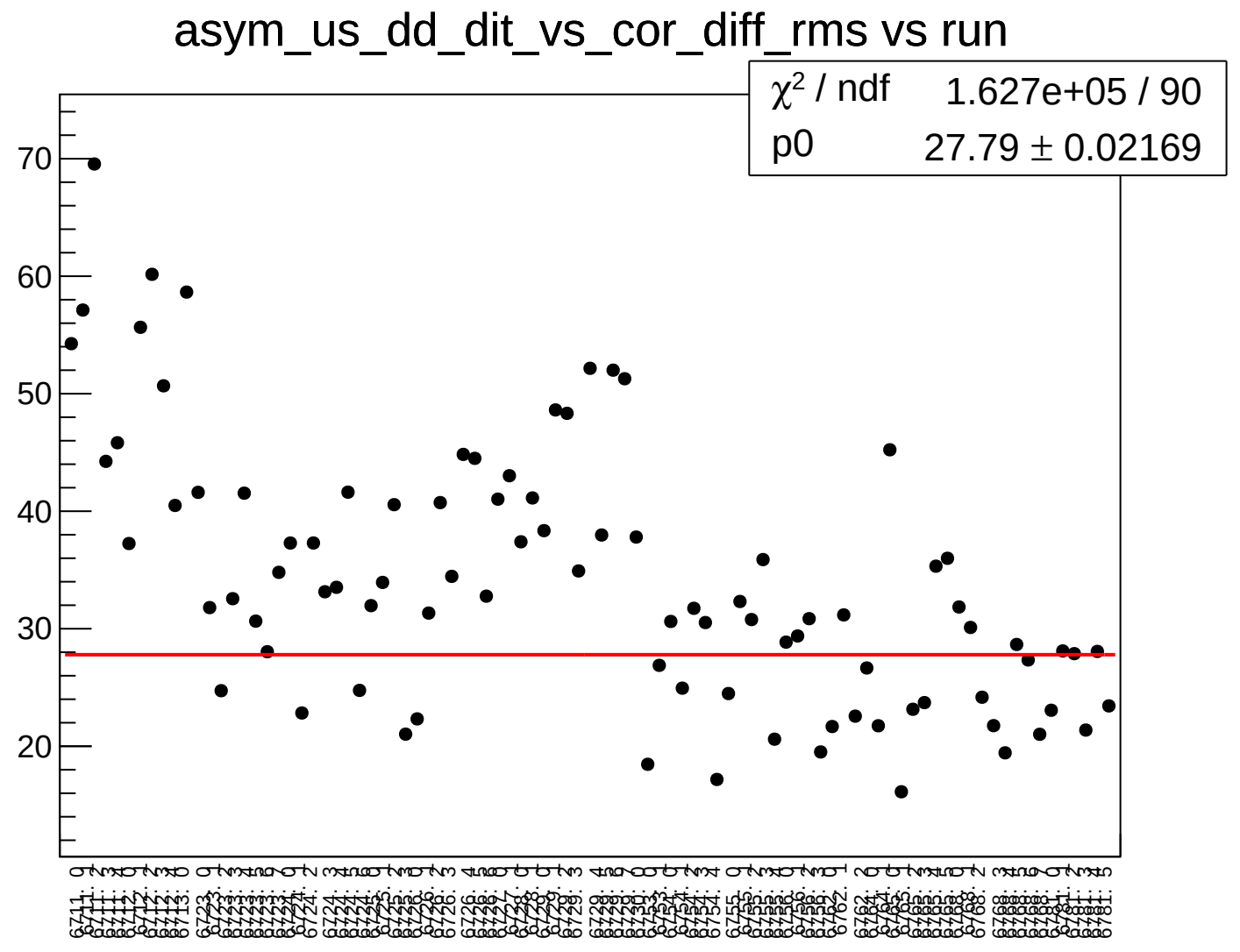

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.6 / 90
p0 −2.991e−14 ± 1.875e−14
pull
Entries 91
Mean 50.65
Std Dev 36.14

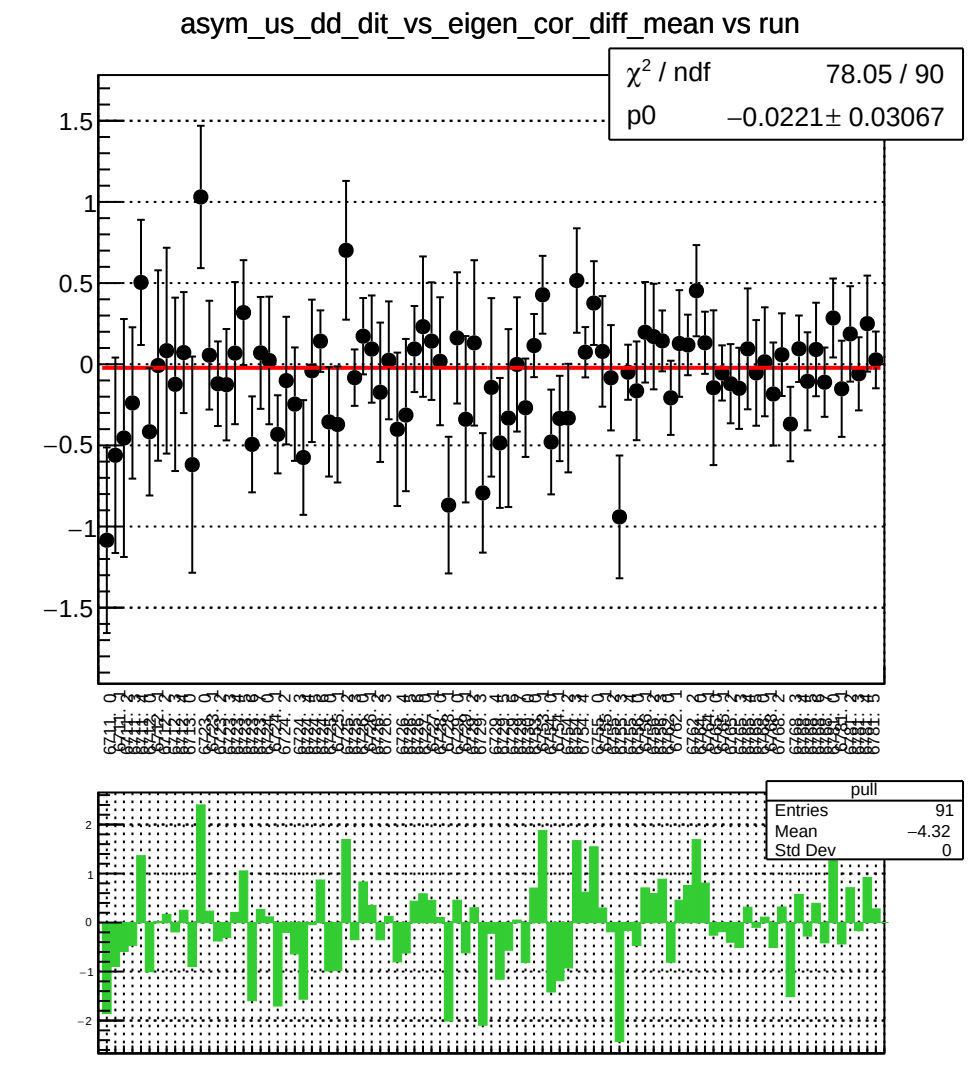

pull1D
Entries 91
Mean −0.09836
Std Dev 1.052

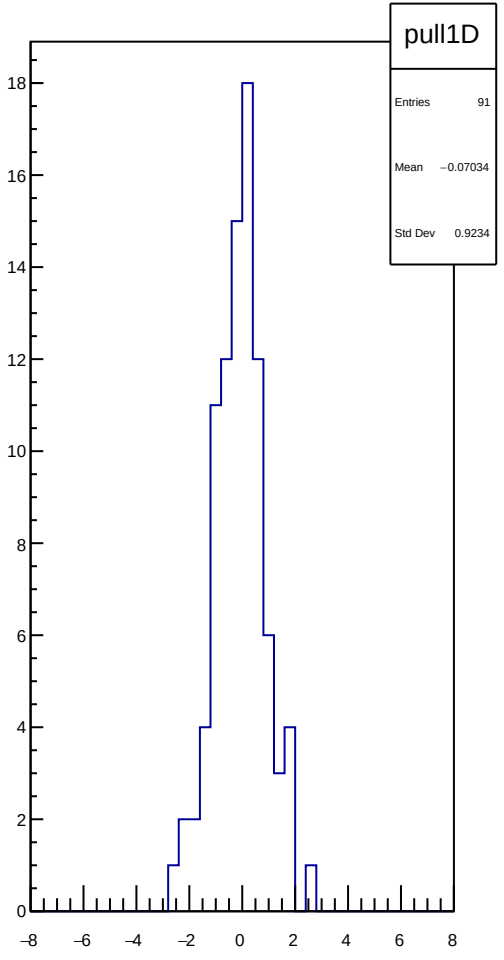

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.443e+05 / 90
p0 1.365e−11 ± 1.326e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

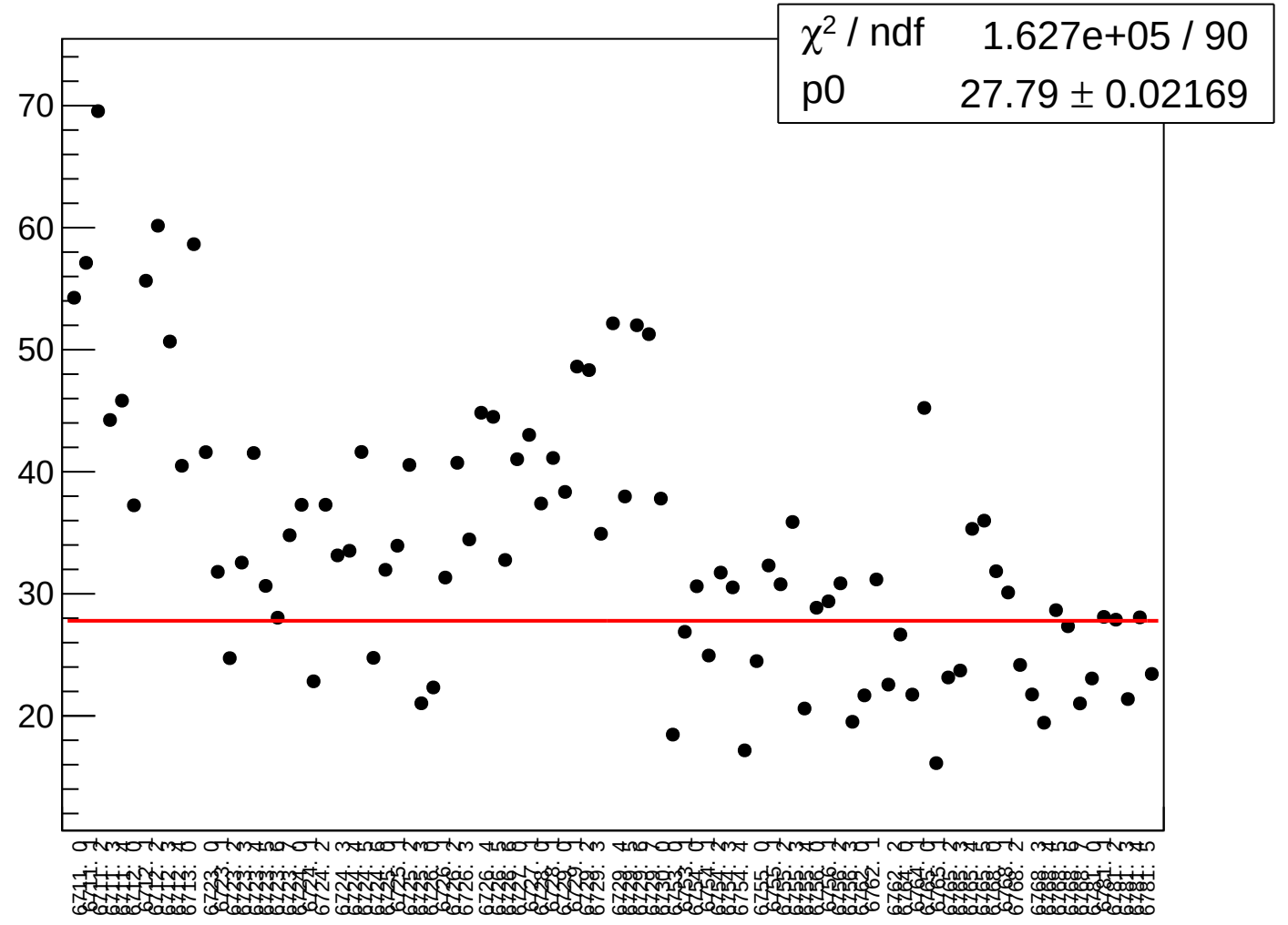

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.05 / 90
p0 −0.0221± 0.03067
pull
Entries 91
Mean −4.32
Std Dev 0

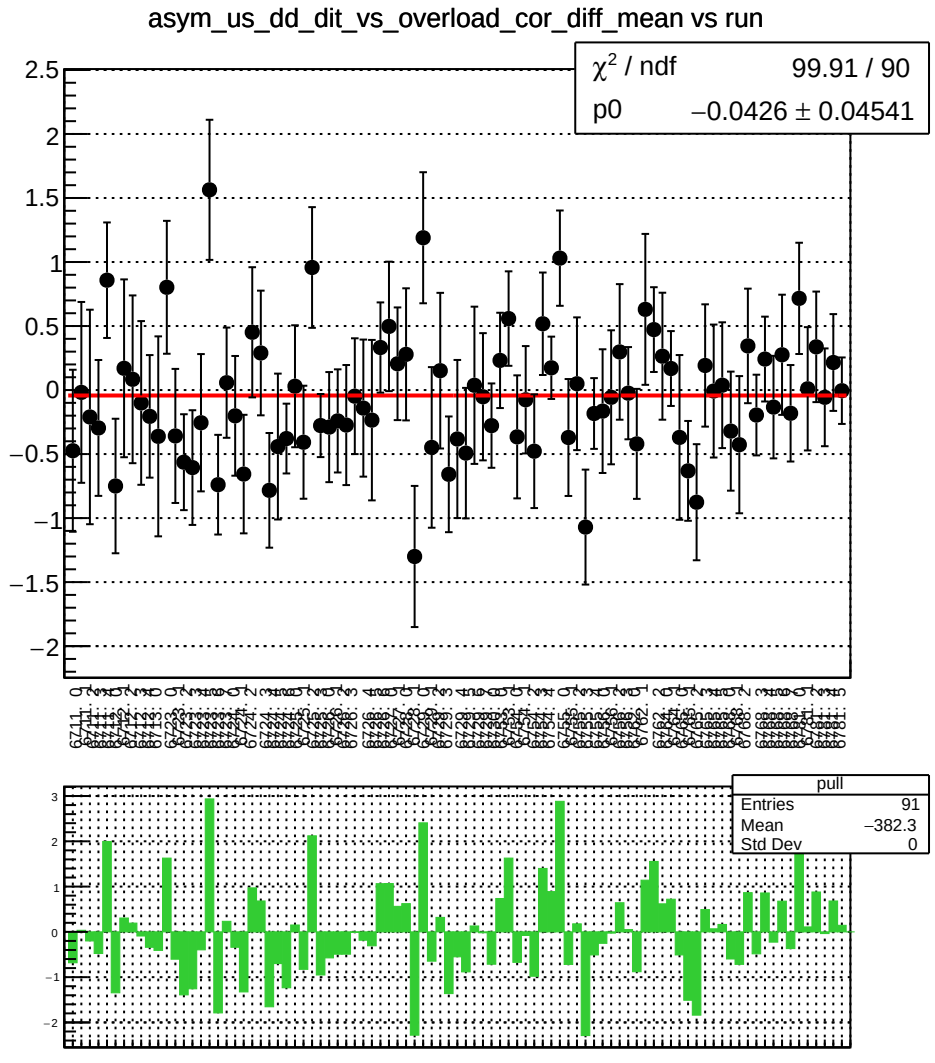

pull1D
Entries 91
Mean −0.07034
Std Dev 0.9234

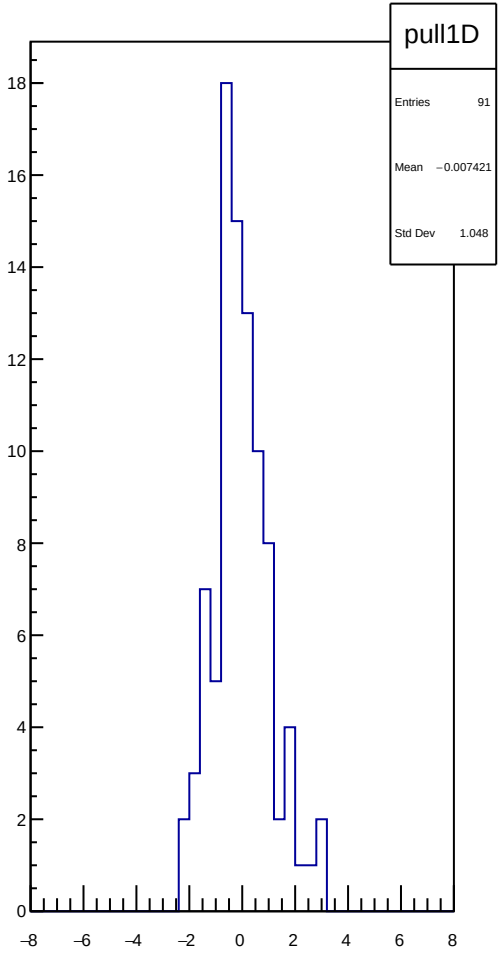

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.627e+05 / 90
p0 27.79 ± 0.02169
70
60
50
40
30
20

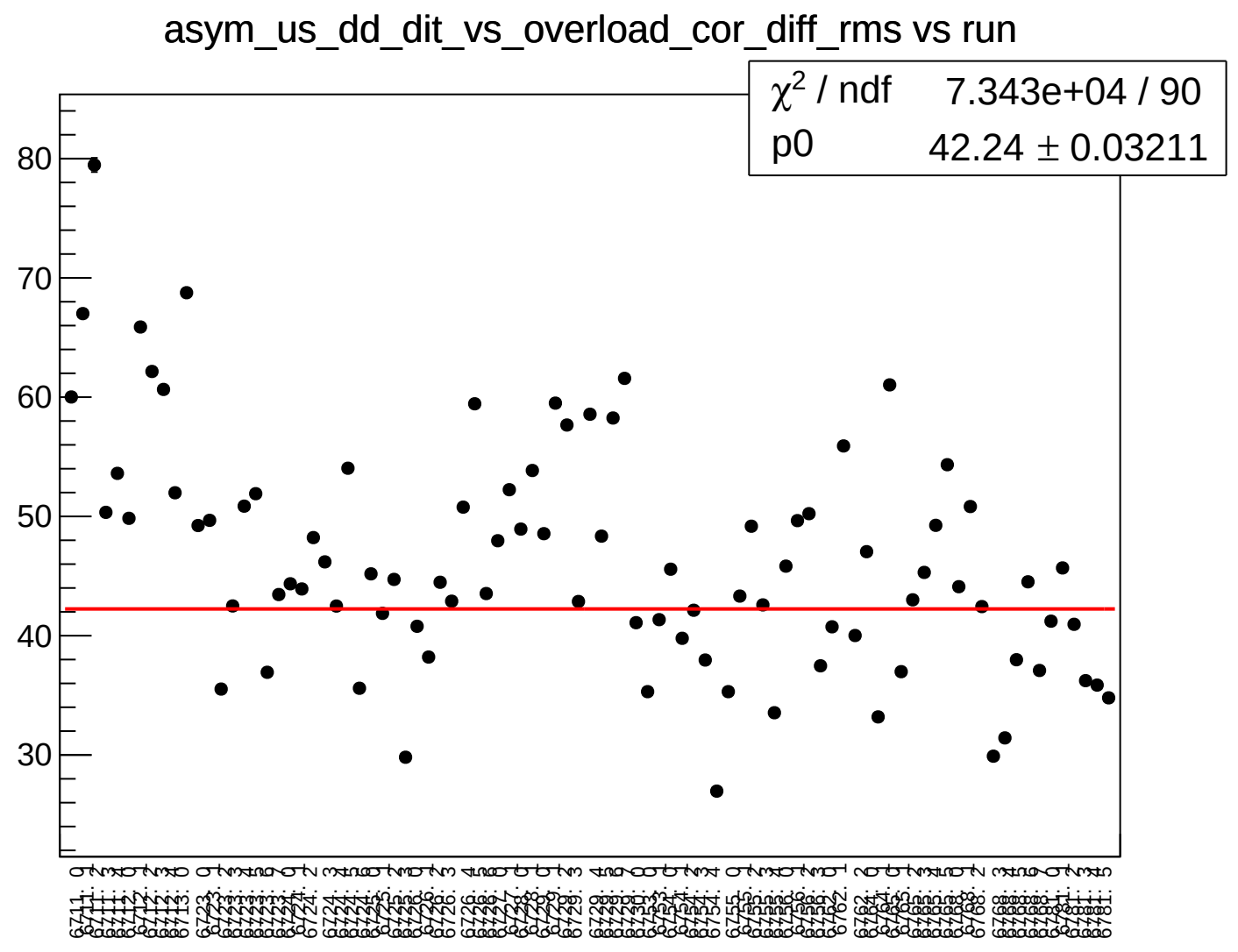

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.05 / 90
p0 −0.0221± 0.03067
pull
Entries 91
Mean −4.32
Std Dev 0

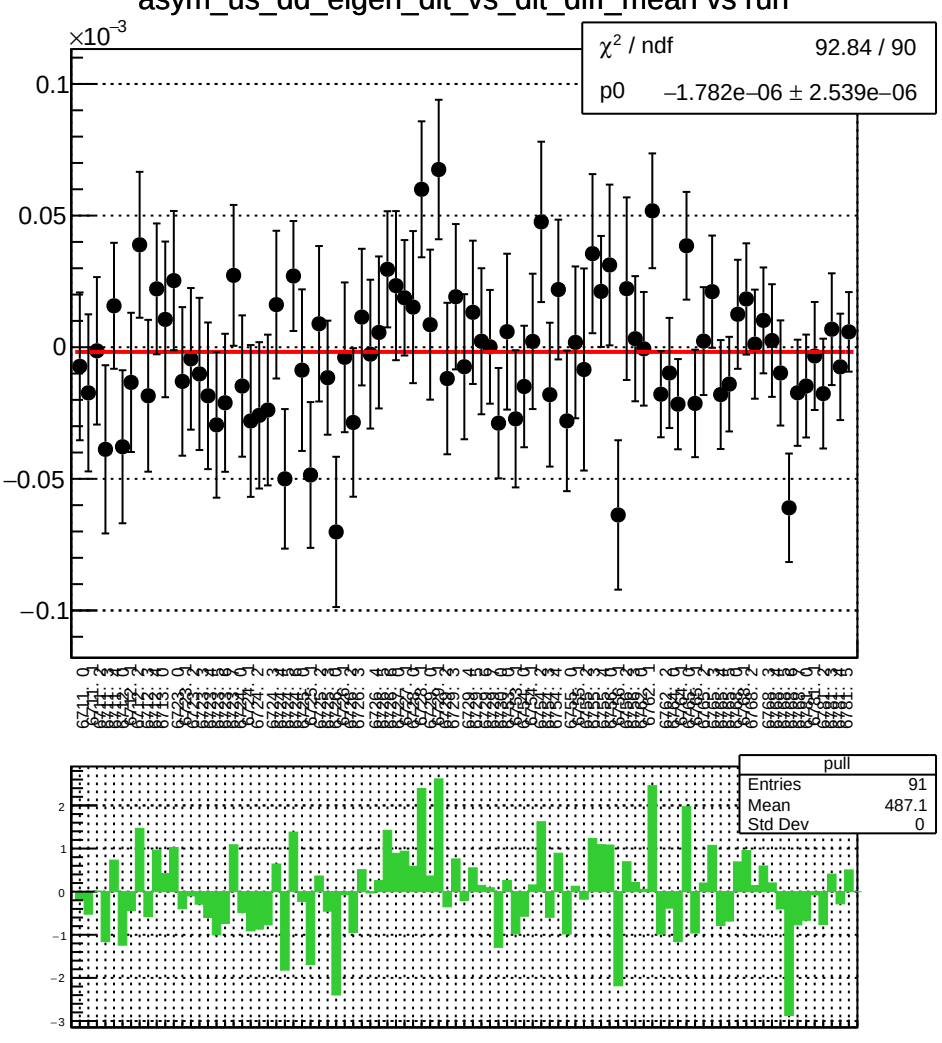

pull1D
Entries 91
Mean −0.07034
Std Dev 0.9234

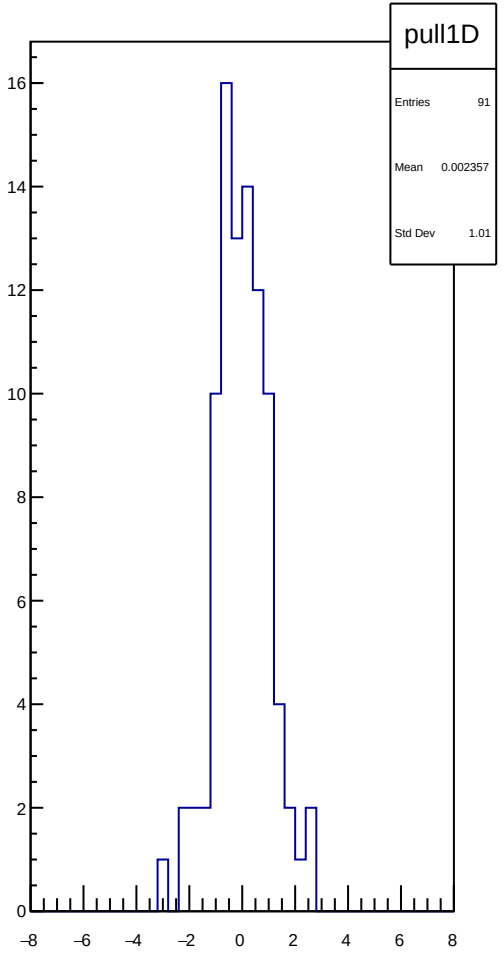

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.627e+05 / 90
p0 27.79 ± 0.02169
70
60
50
40
30
20

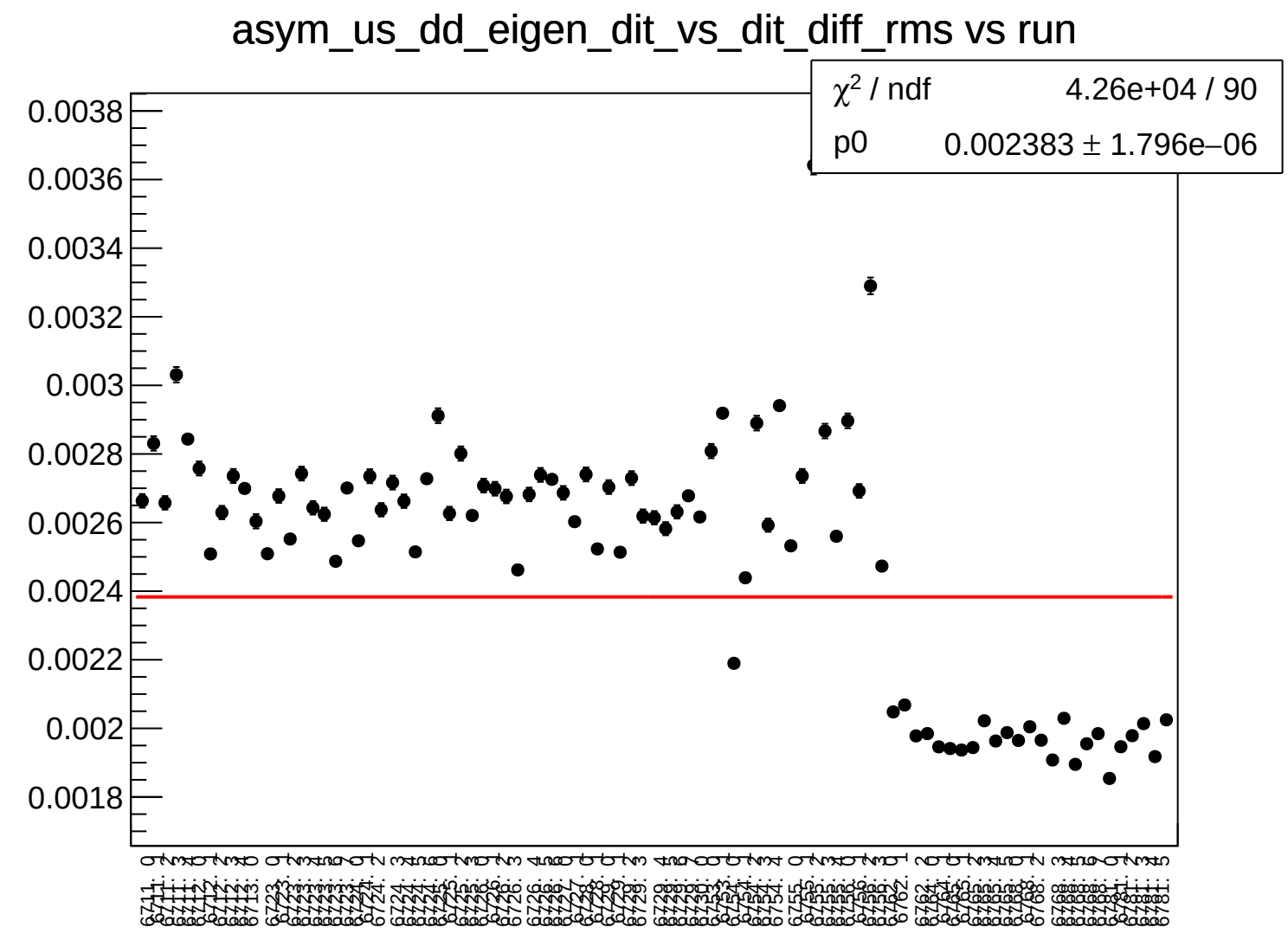

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 99.91 / 90
p0 −0.0426 ± 0.04541
pull
Entries 91
Mean −382.3
Std Dev 0

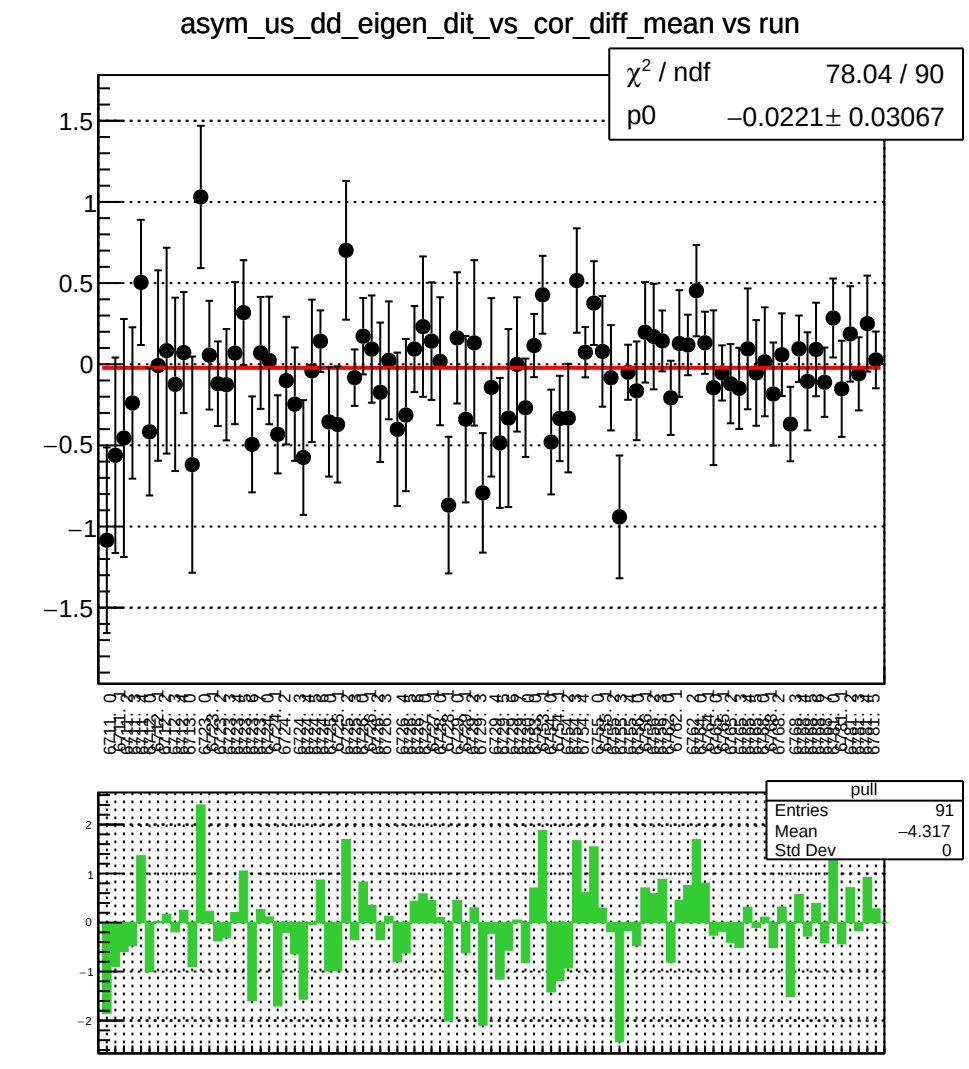

pull1D
Entries 91
Mean −0.007421
Std Dev 1.048

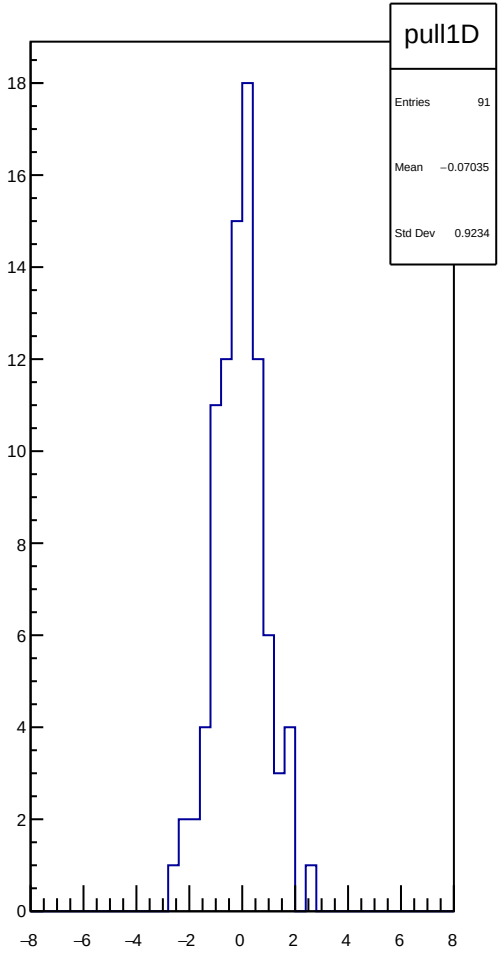

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.343e+04 / 90
p0 42.24 ± 0.03211
80
70
60
50
40
30

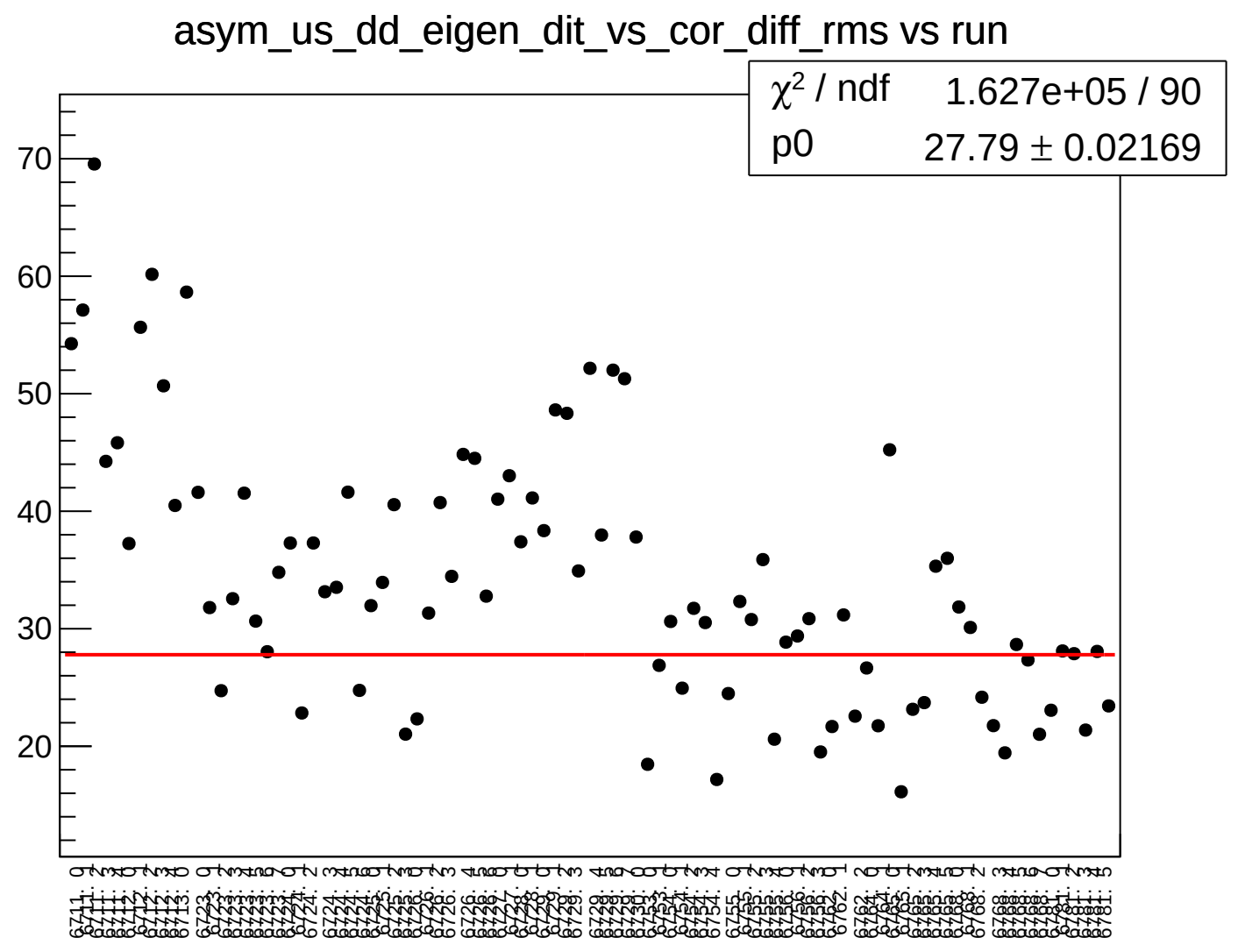

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.84 / 90
p0 −1.782e−06 ± 2.539e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean 487.1
Std Dev 0
2
1
0
−1
−2
−3

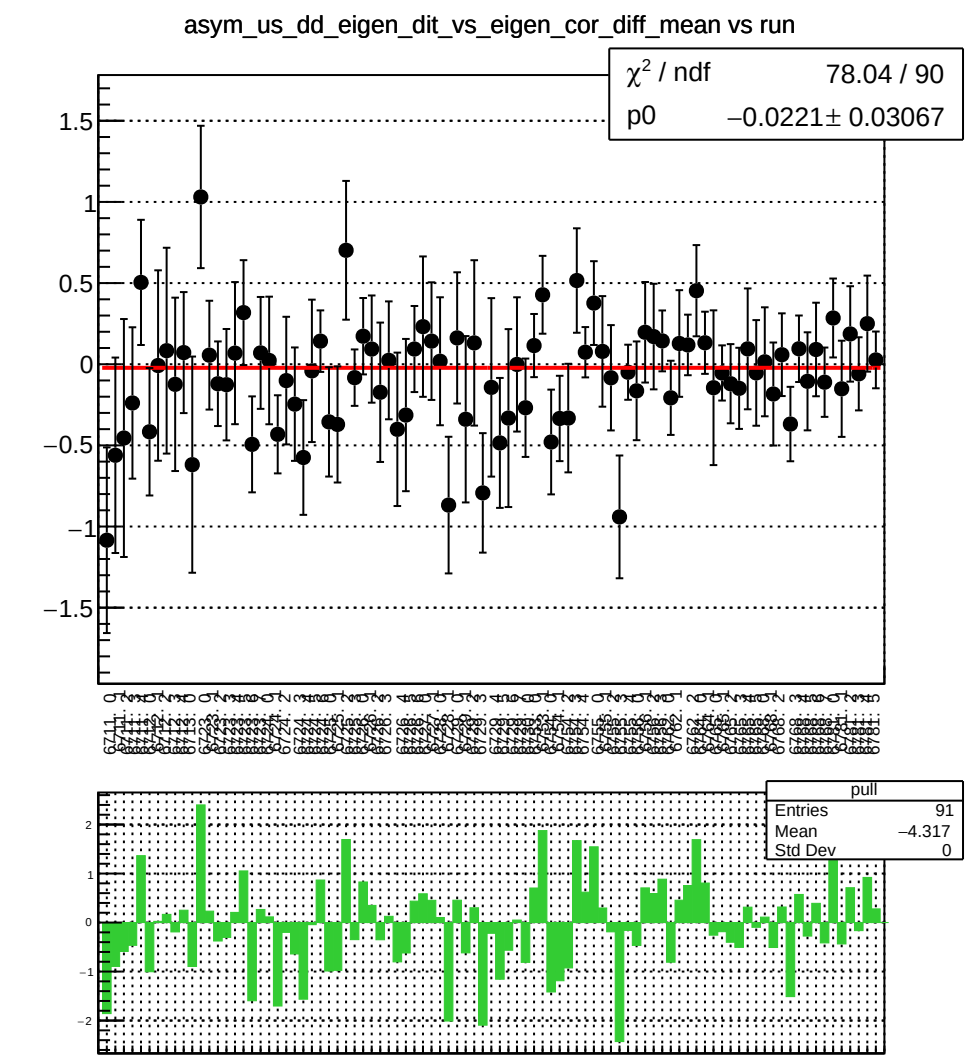

pull1D
Entries 91
Mean 0.002357
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

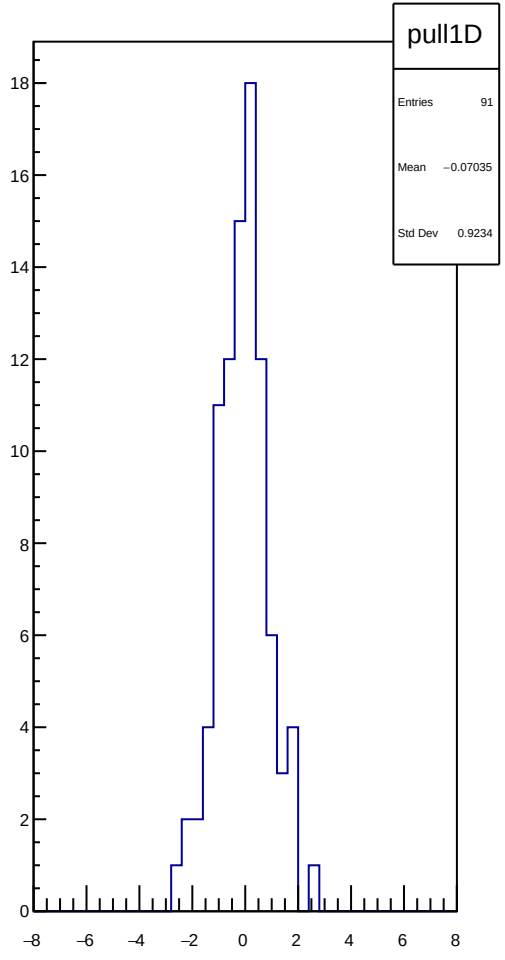

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.26e+04 / 90
p0 0.002383 ± 1.796e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

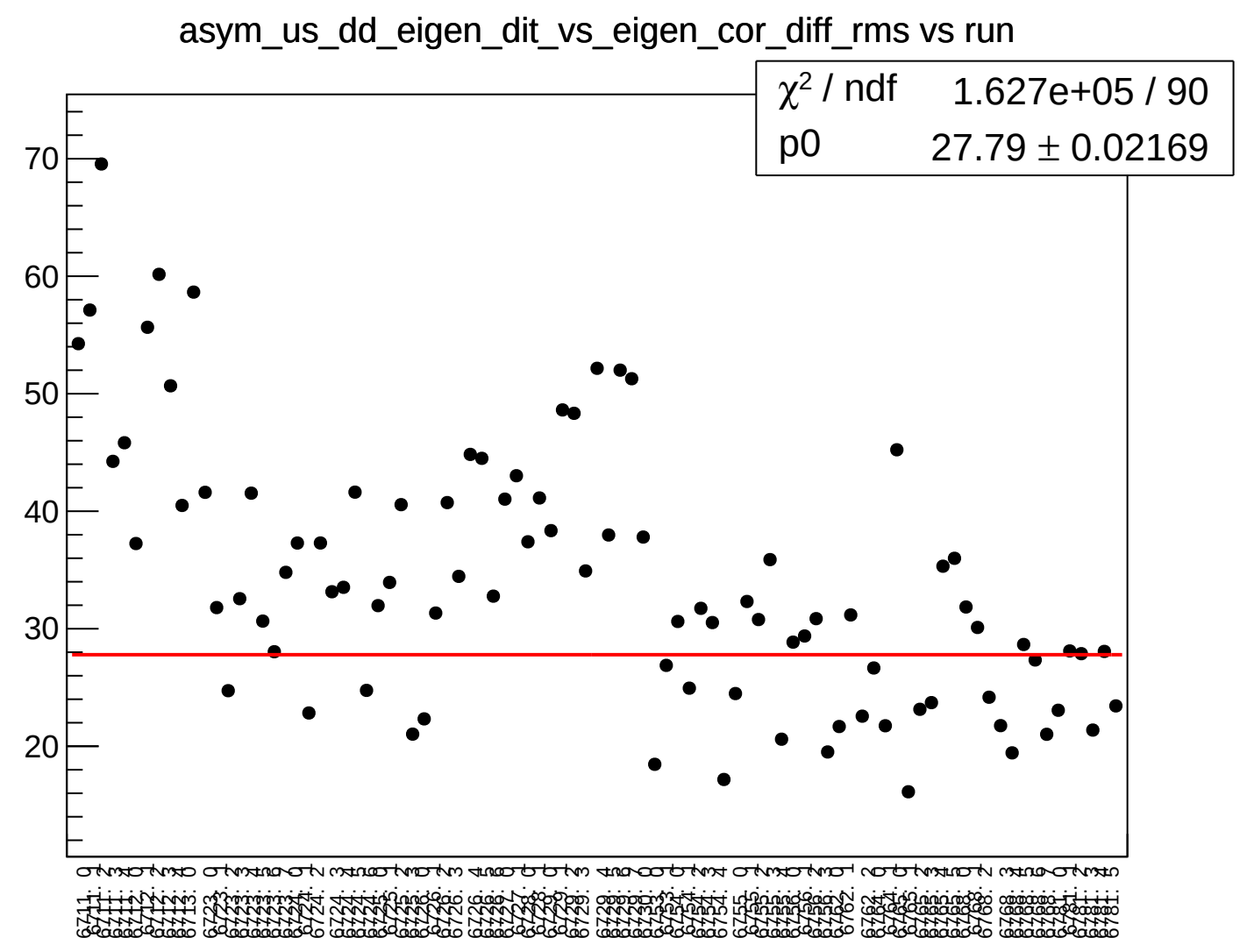

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.04 / 90
p0 −0.0221± 0.03067
pull
Entries 91
Mean −4.317
Std Dev 0

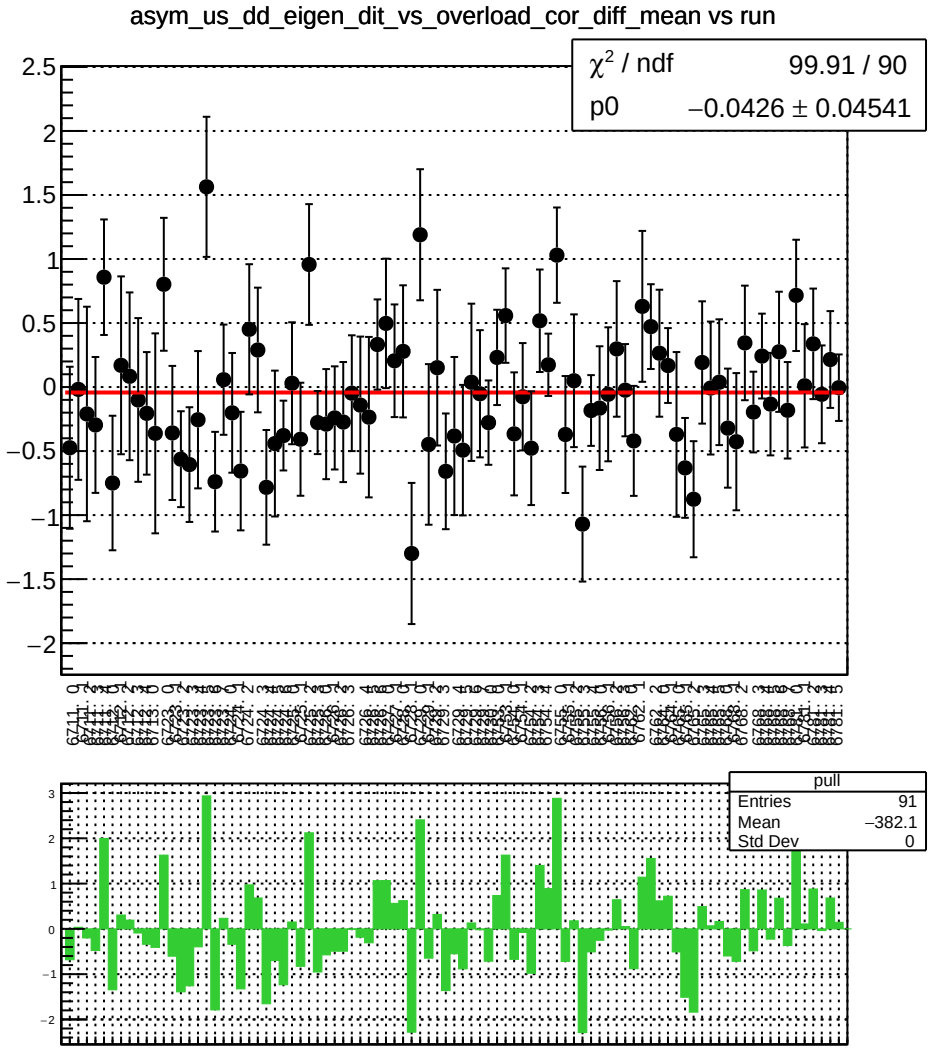

pull1D
Entries 91
Mean −0.07035
Std Dev 0.9234

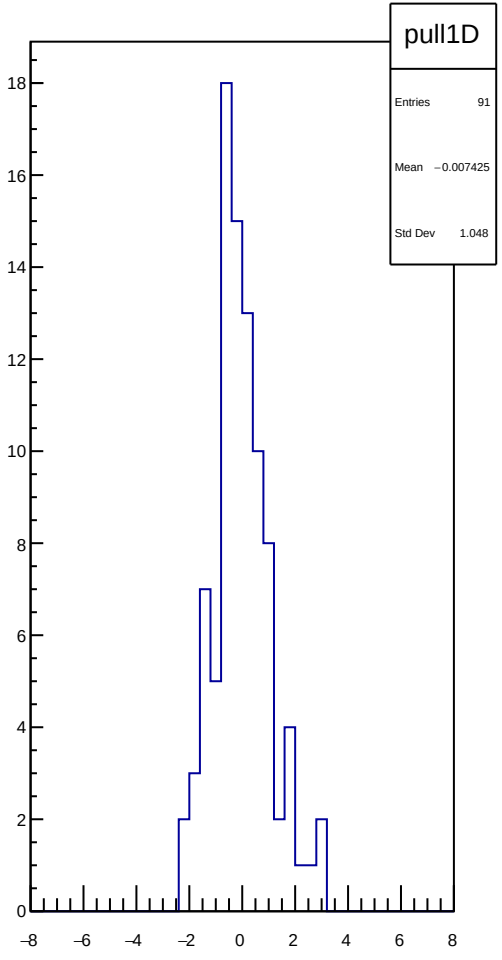

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.627e+05 / 90
p0 27.79 ± 0.02169
70
60
50
40
30
20

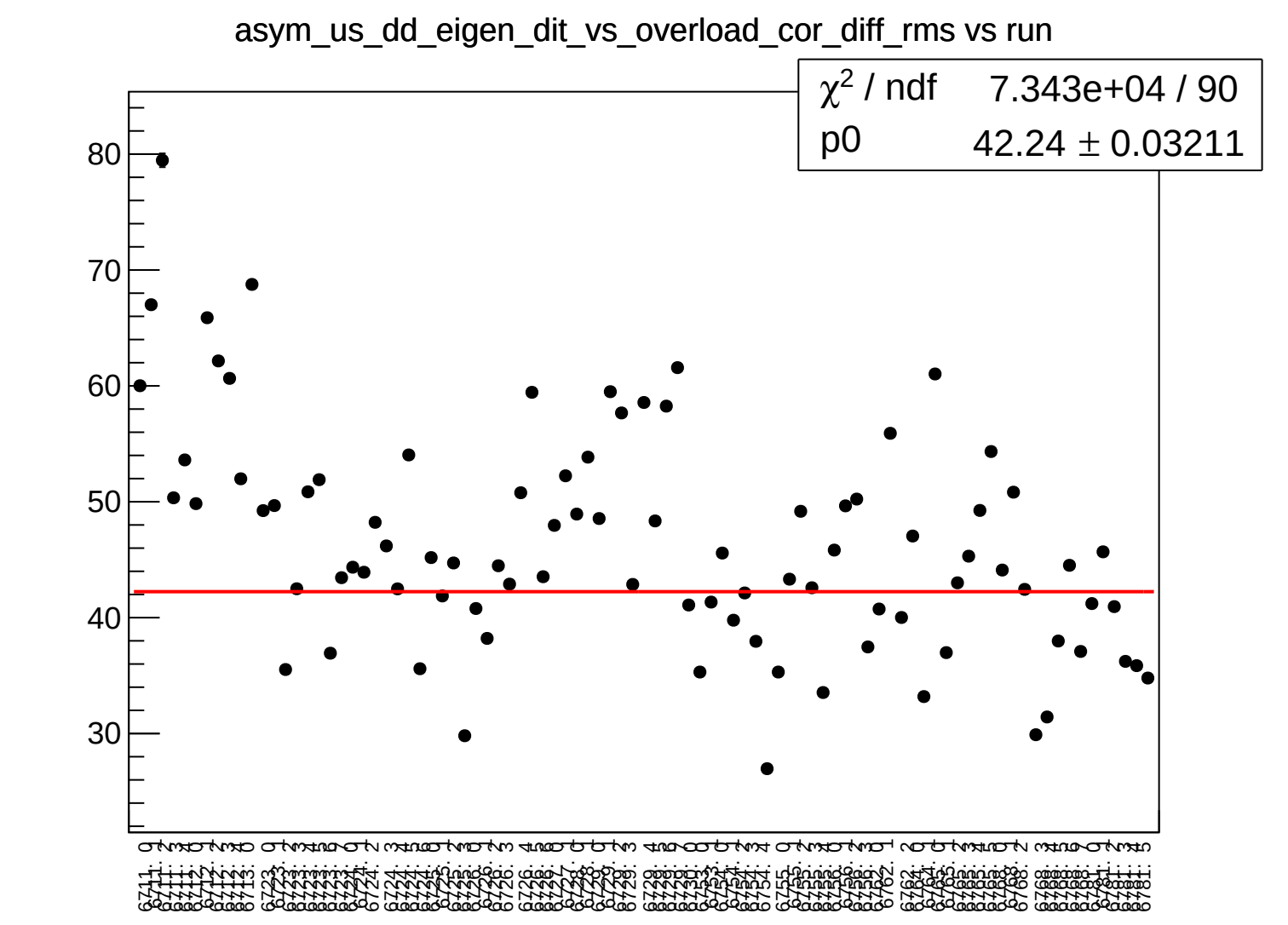

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.04 / 90
p0 −0.0221± 0.03067
pull
Entries 91
Mean −4.317
Std Dev 0

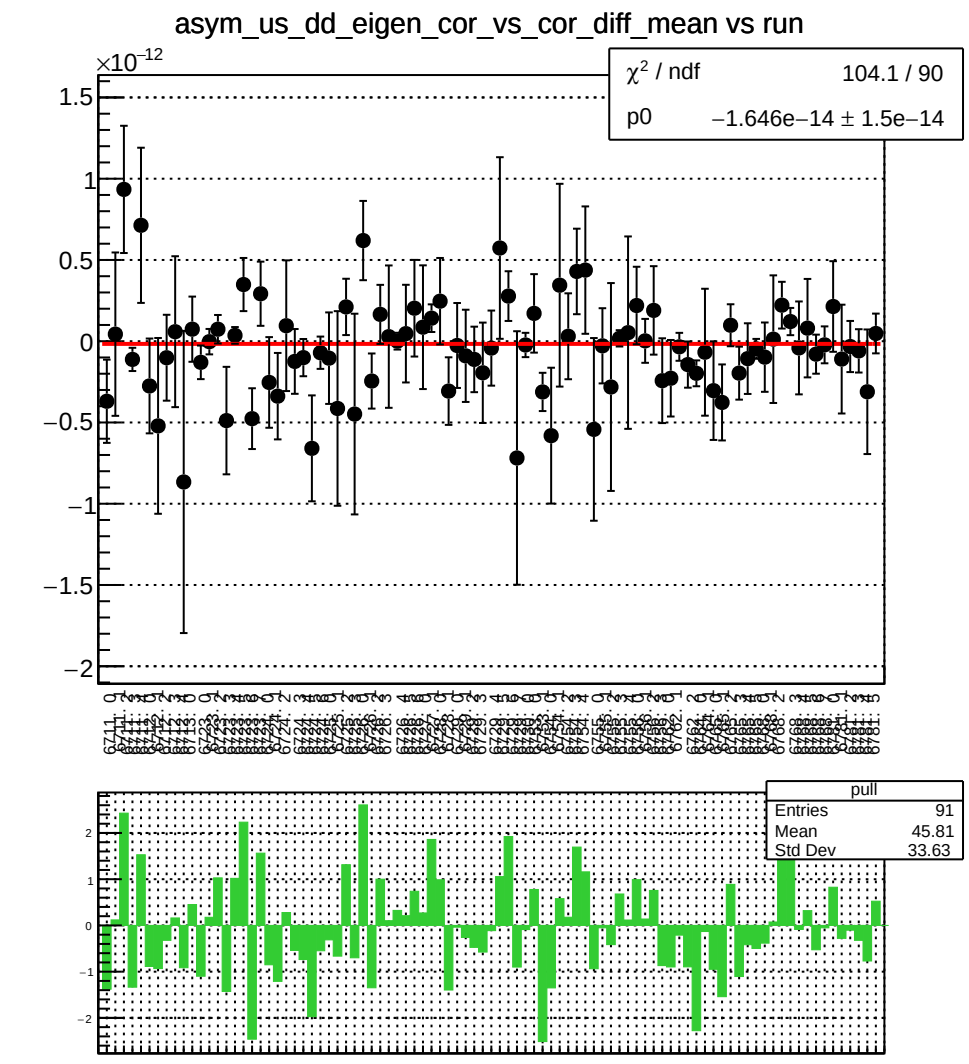

pull1D
Entries 91
Mean −0.07035
Std Dev 0.9234

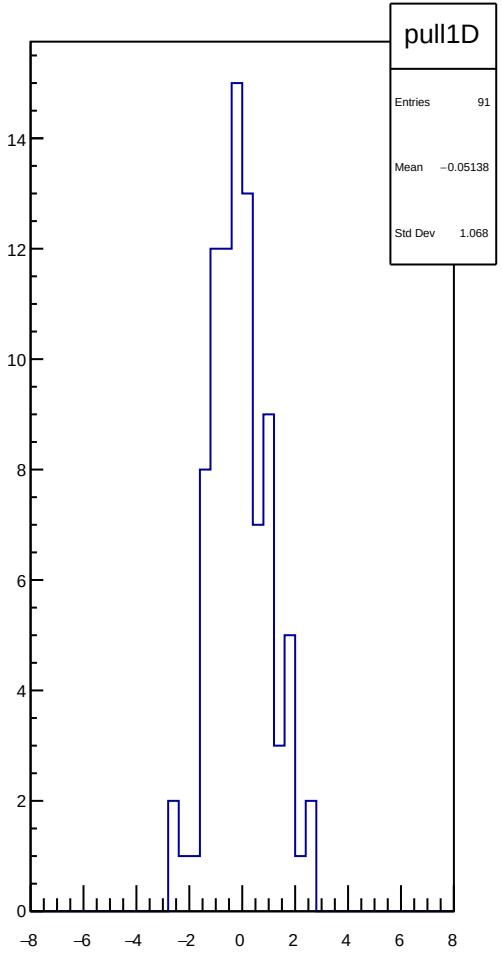

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.627e+05 / 90
p0 27.79 ± 0.02169
70
60
50
40
30
20

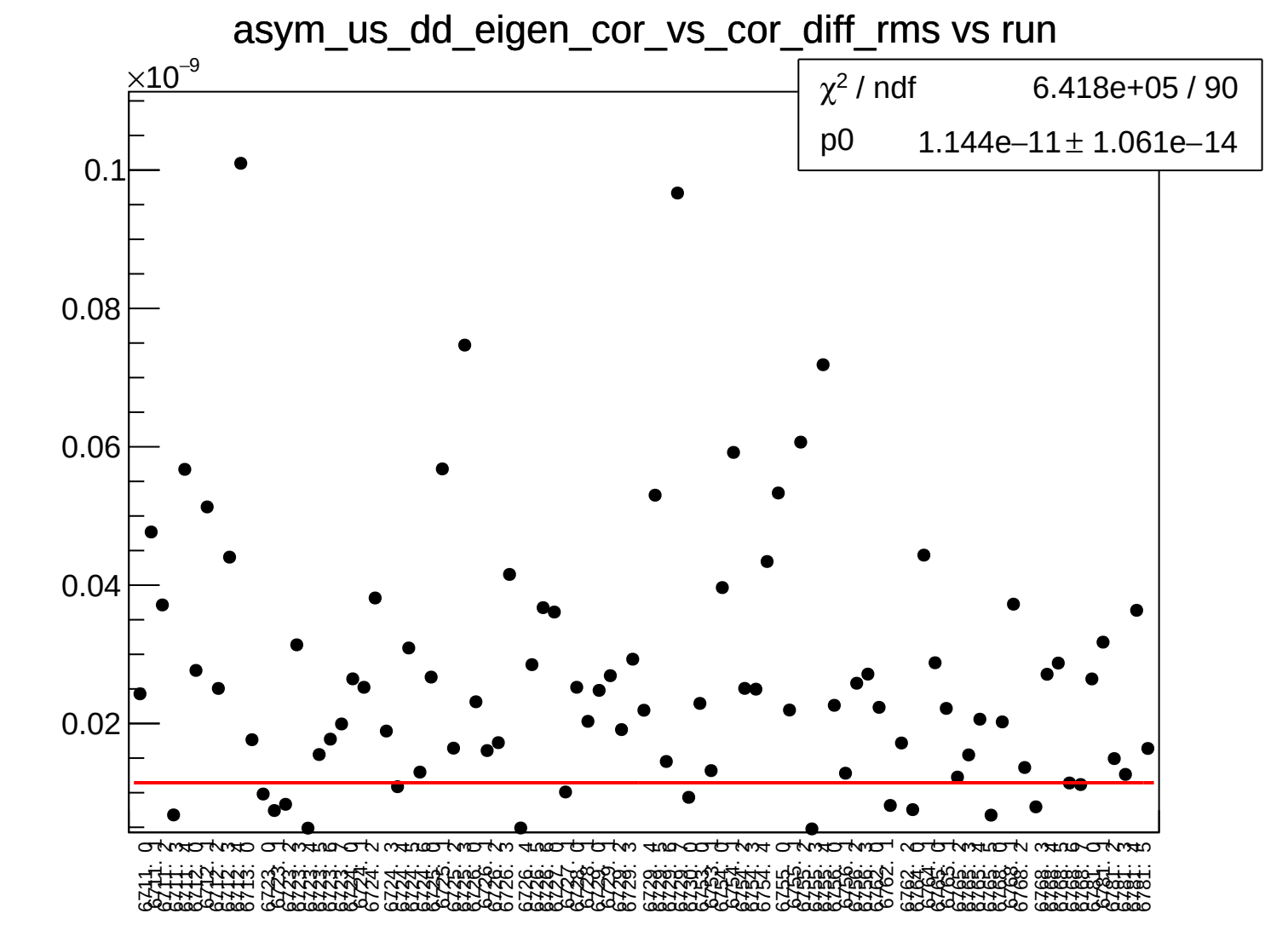

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 99.91 / 90
p0 −0.0426 ± 0.04541
pull
Entries 91
Mean −382.1
Std Dev 0

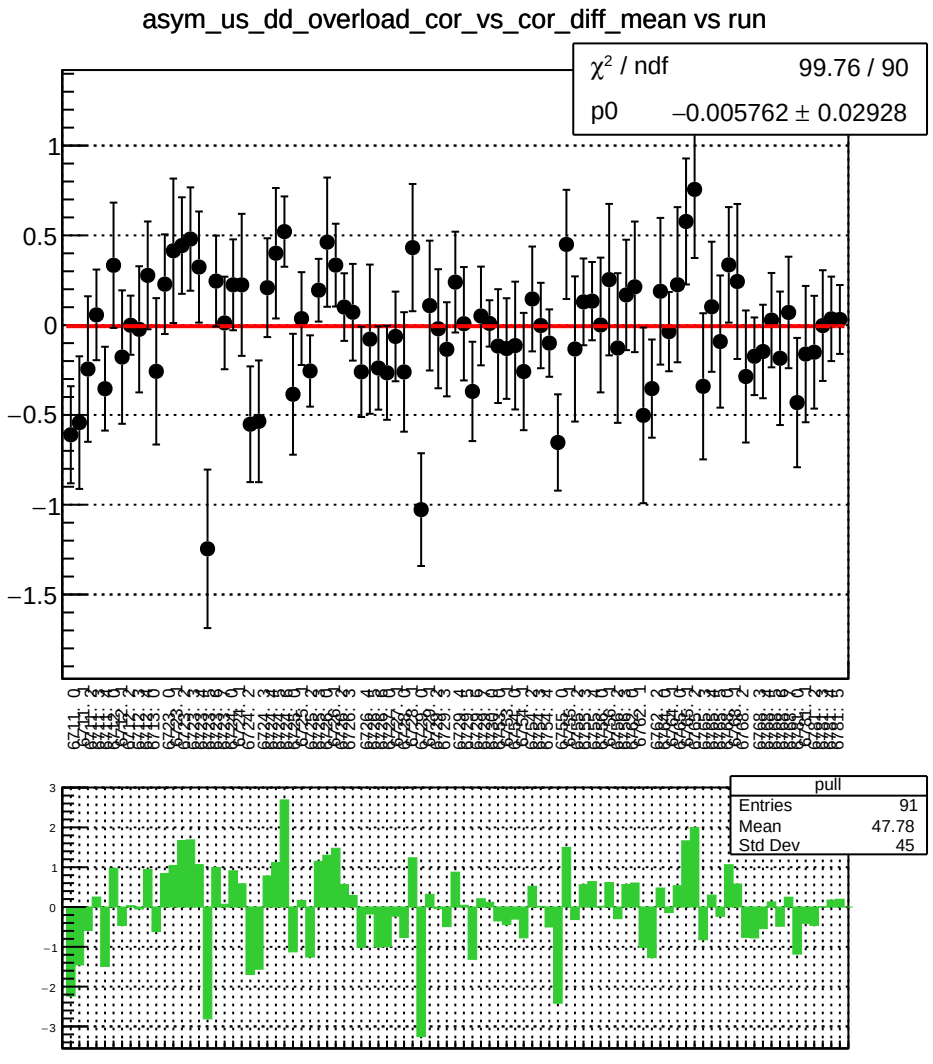

pull1D
Entries 91
Mean −0.007425
Std Dev 1.048

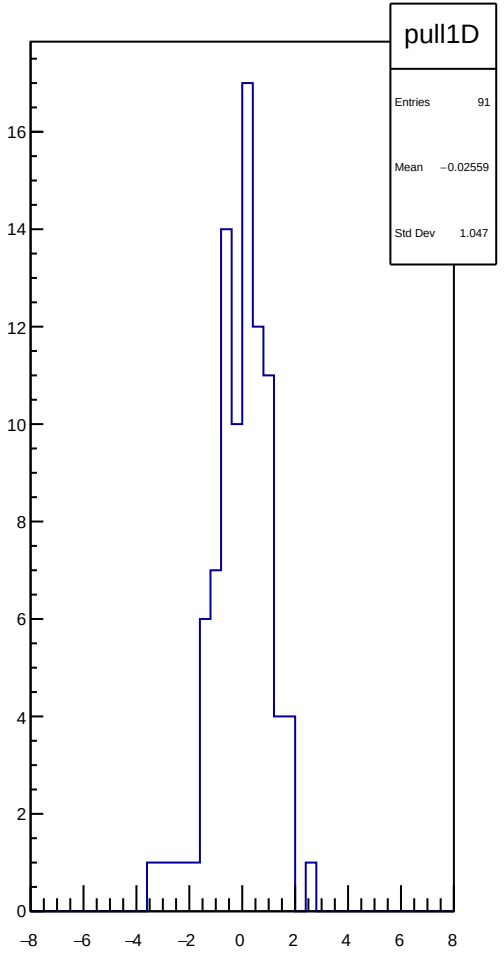

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.343e+04 / 90
p0 42.24 ± 0.03211
80
70
60
50
40
30

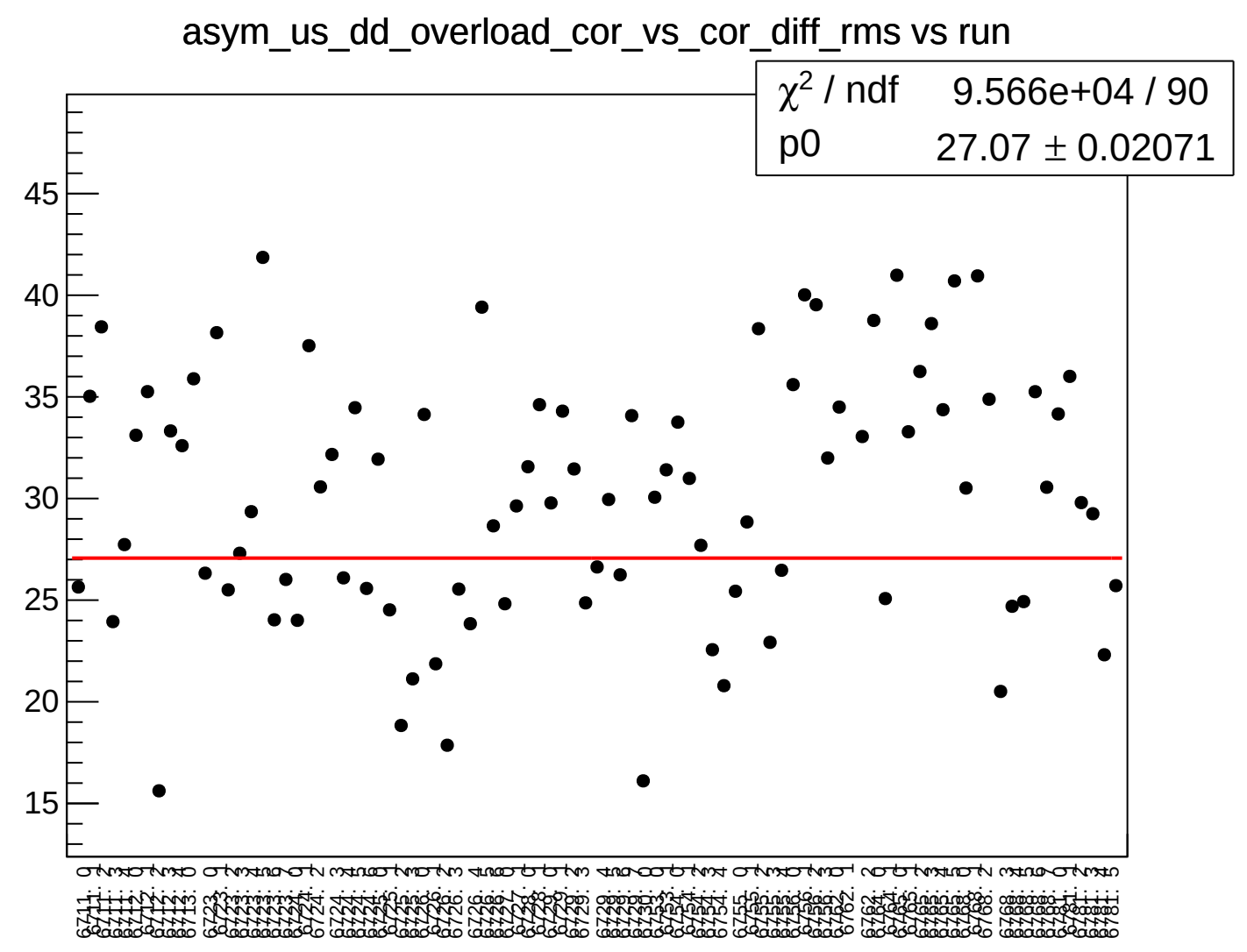

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 104.1 / 90
p0 −1.646e−14 ± 1.5e−14
pull
Entries 91
Mean 45.81
Std Dev 33.63

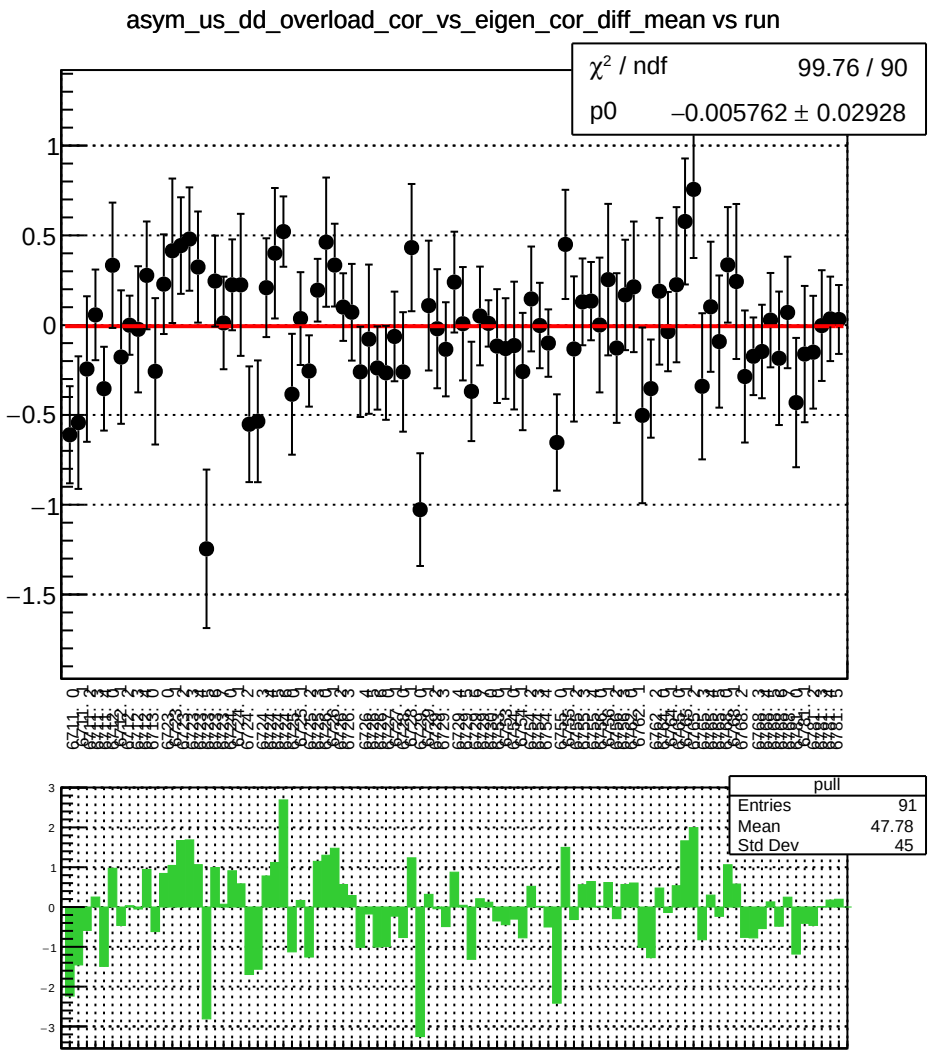

pull1D
Entries 91
Mean −0.05138
Std Dev 1.068

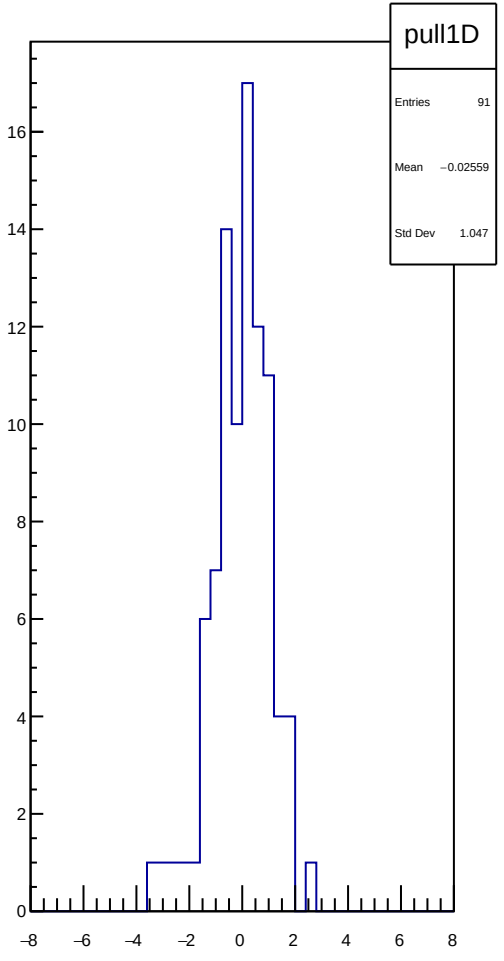

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.418e+05 / 90
p0 1.144e−11 ± 1.061e−14
0.1
0.08
0.06
0.04
0.02

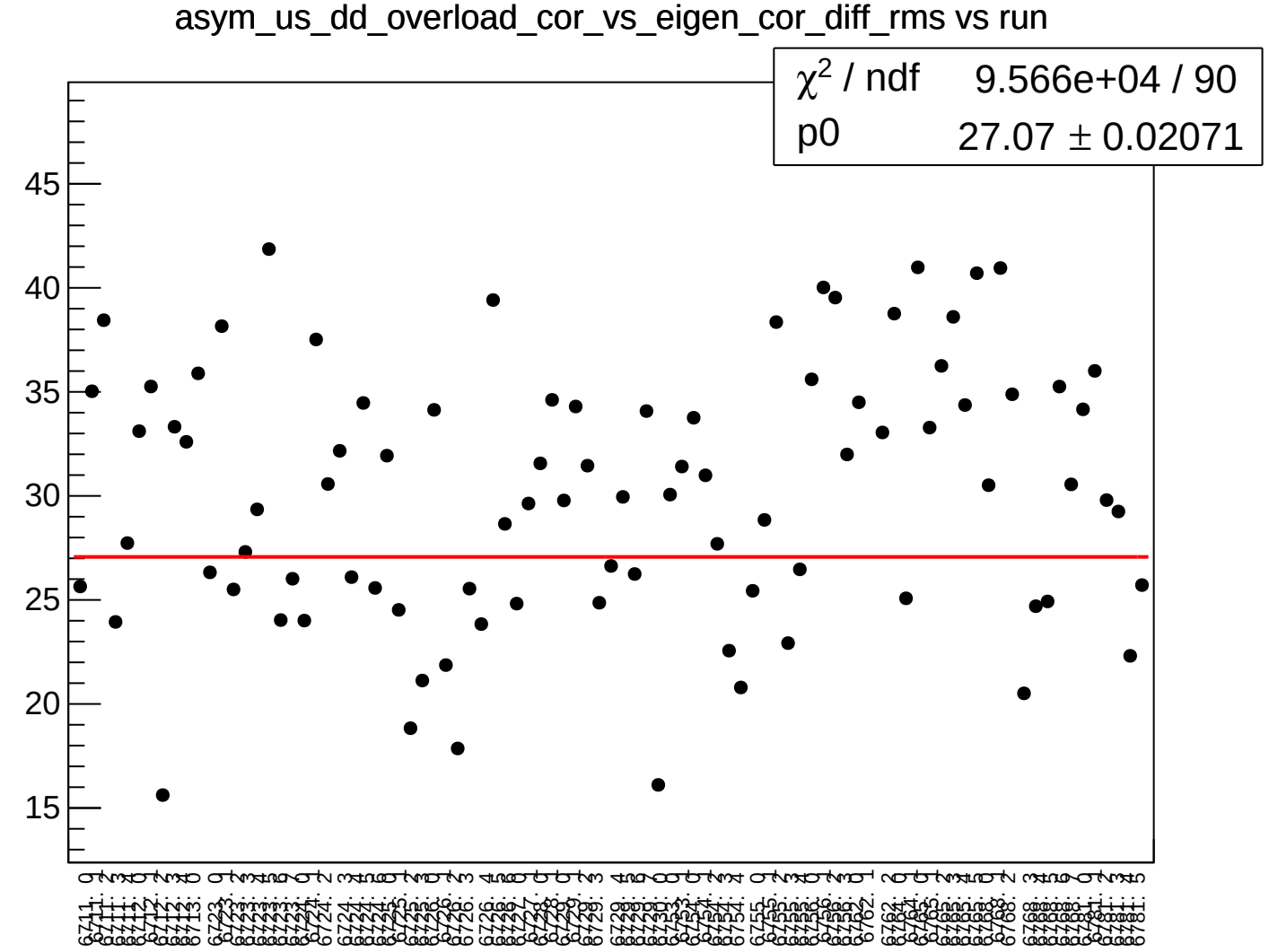

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 99.76 / 90
p0 −0.005762 ± 0.02928
pull
Entries 91
Mean 47.78
Std Dev 45

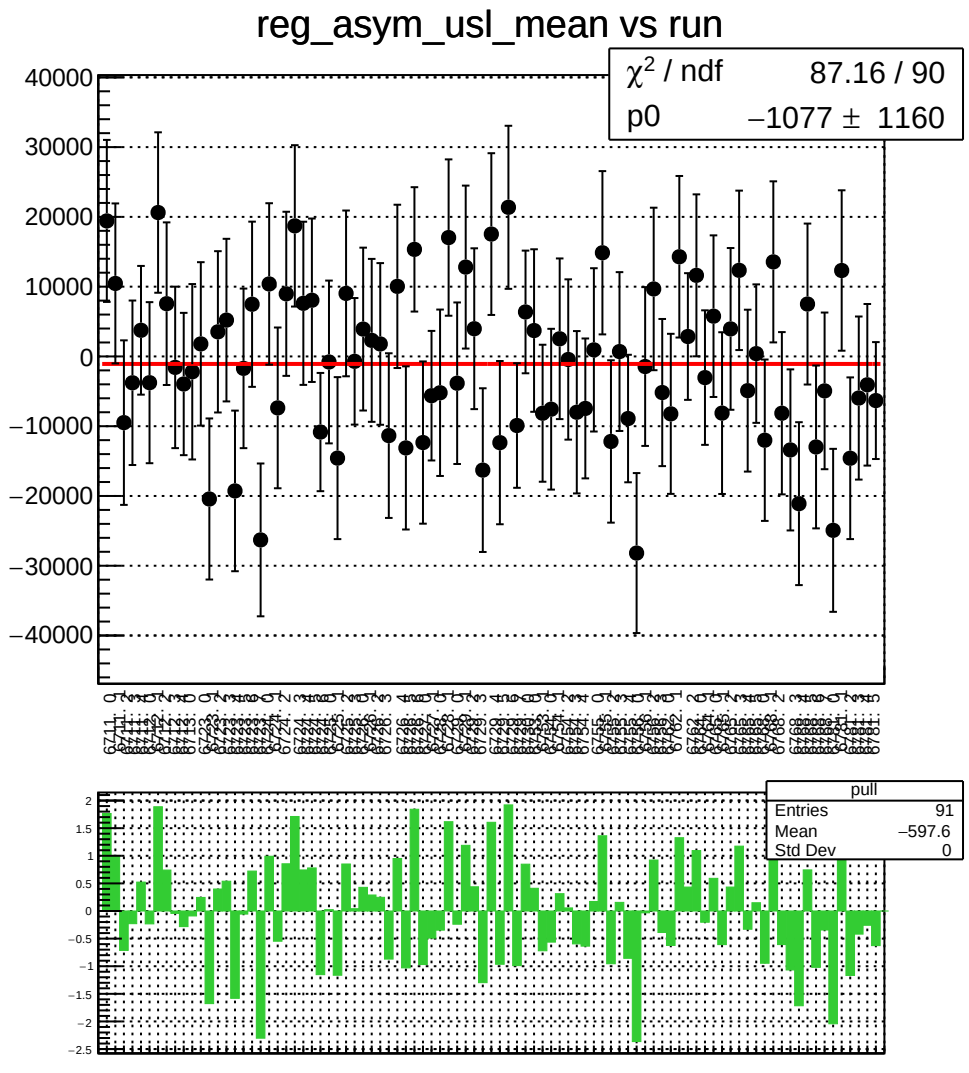

pull1D
Entries 91
Mean −0.02559
Std Dev 1.047

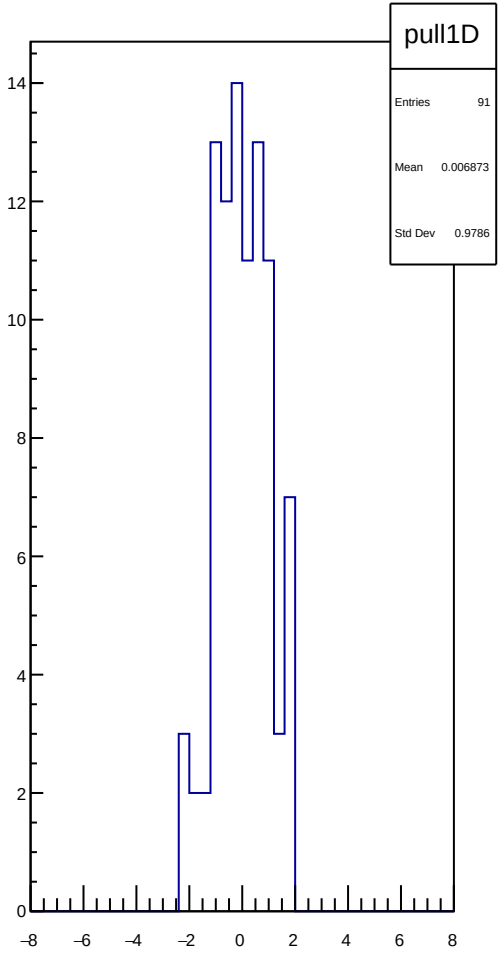

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 9.566e+04 / 90
p0 27.07 ± 0.02071
45
40
35
30
25
20
15

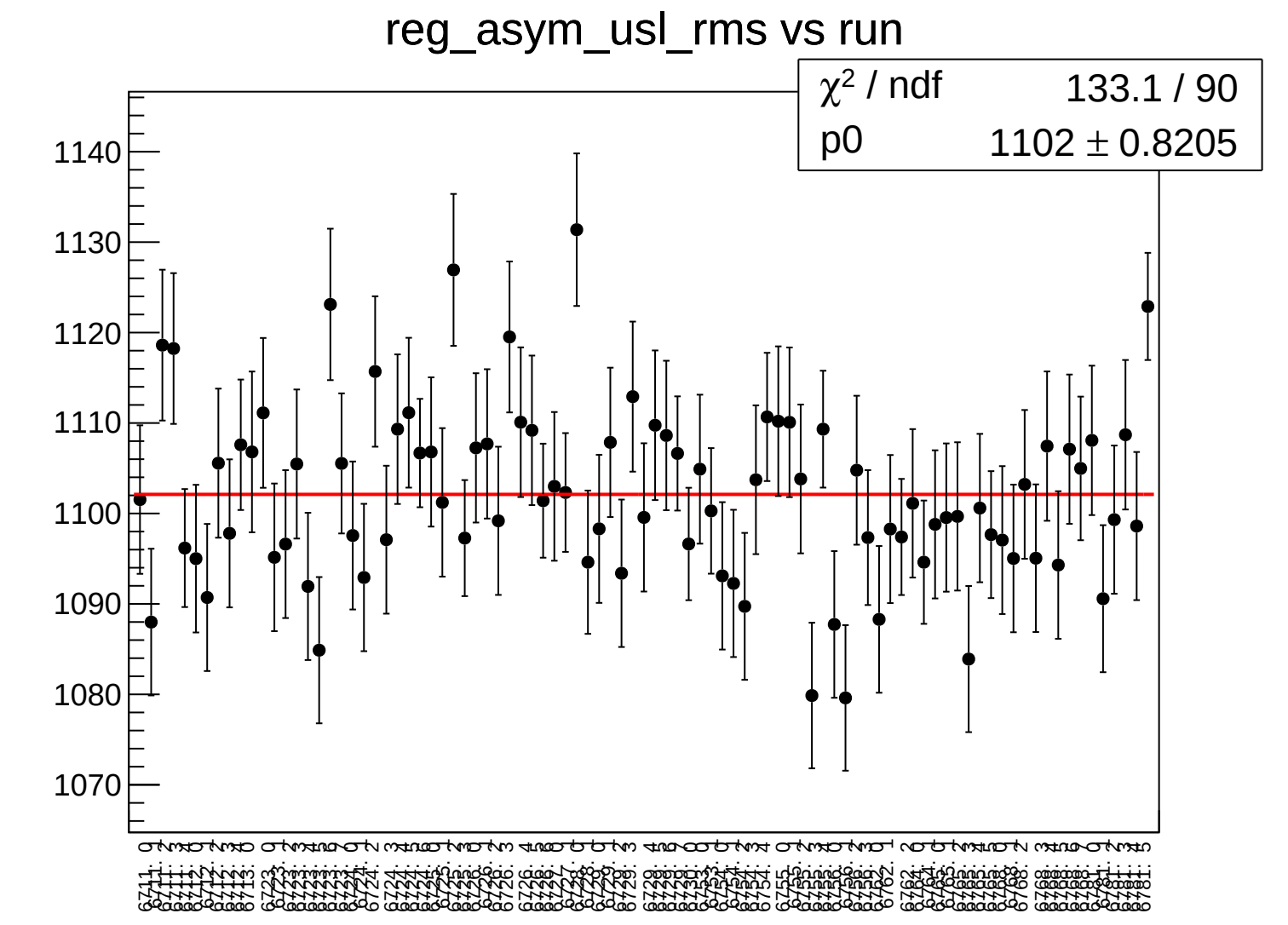

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.76 / 90
p0 −0.005762 ± 0.02928
pull
Entries 91
Mean 47.78
Std Dev 45

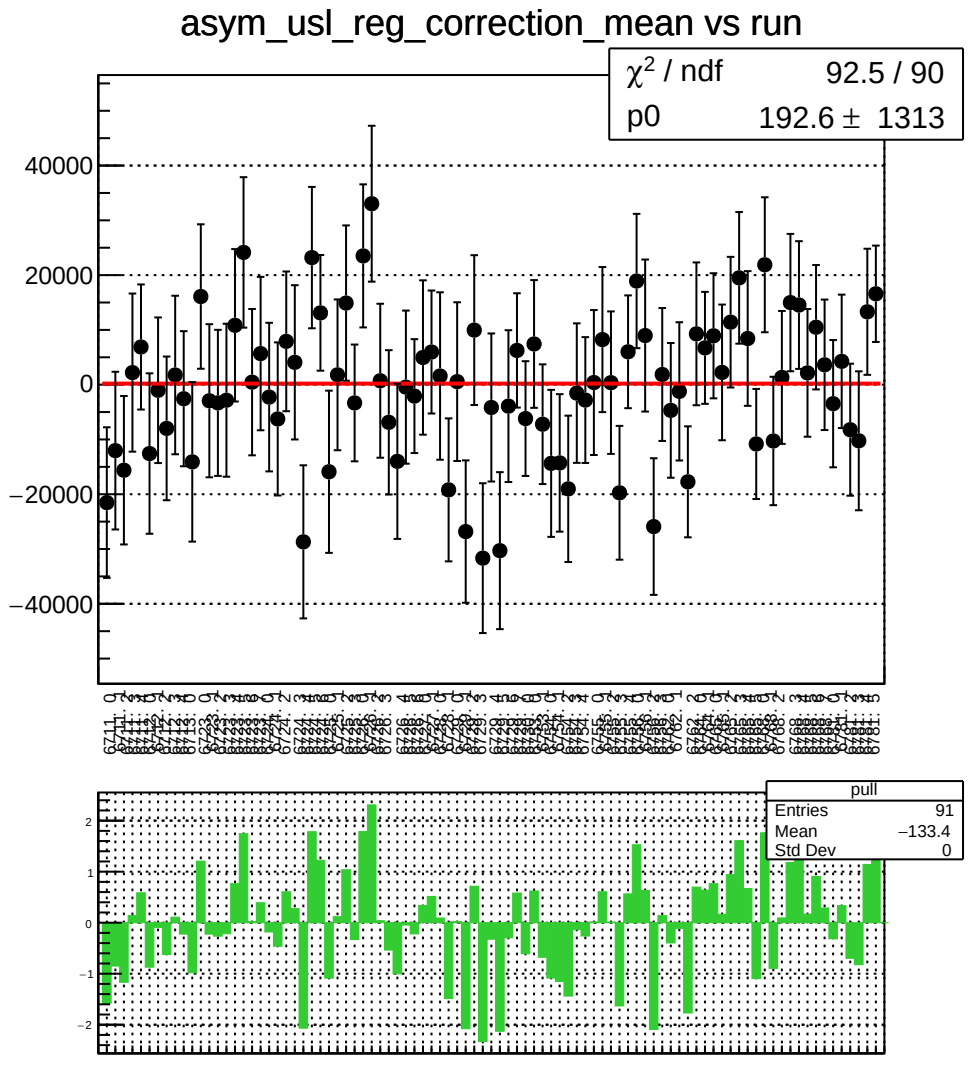

pull1D
Entries 91
Mean −0.02559
Std Dev 1.047

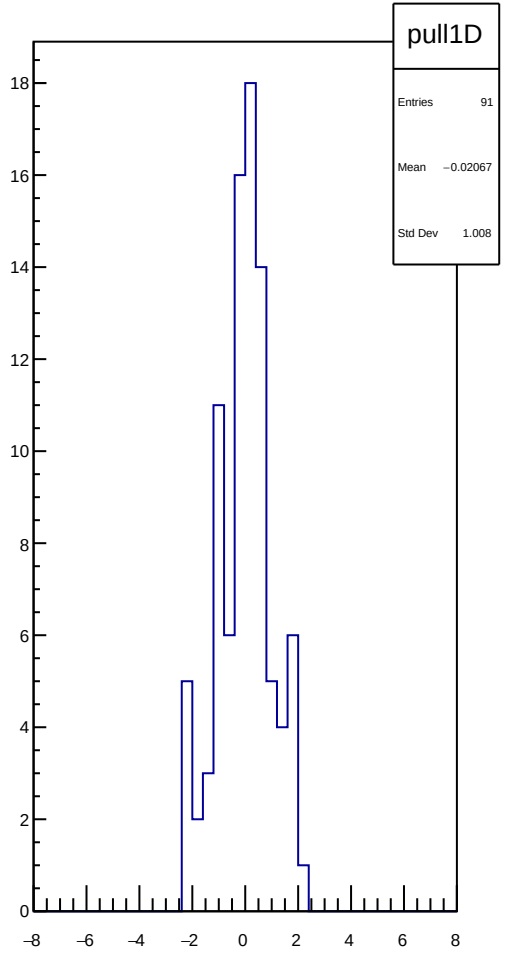

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.566e+04 / 90
p0 27.07 ± 0.02071
45
40
35
30
25
20
15

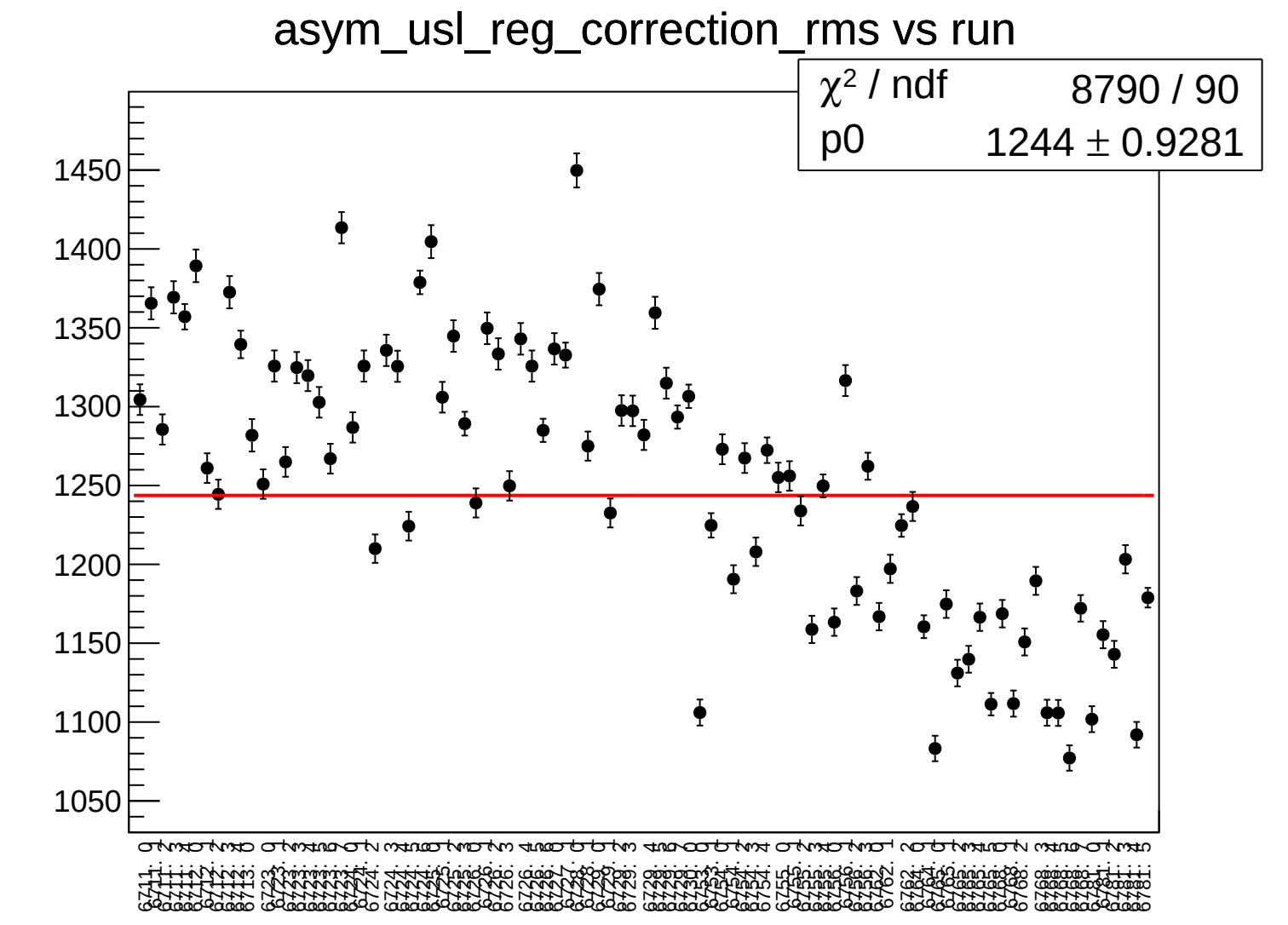

reg_asym_usl_mean vs run
χ² / ndf 87.16 / 90
p0 −1077 ± 1160
pull
Entries 91
Mean −597.6
Std Dev 0

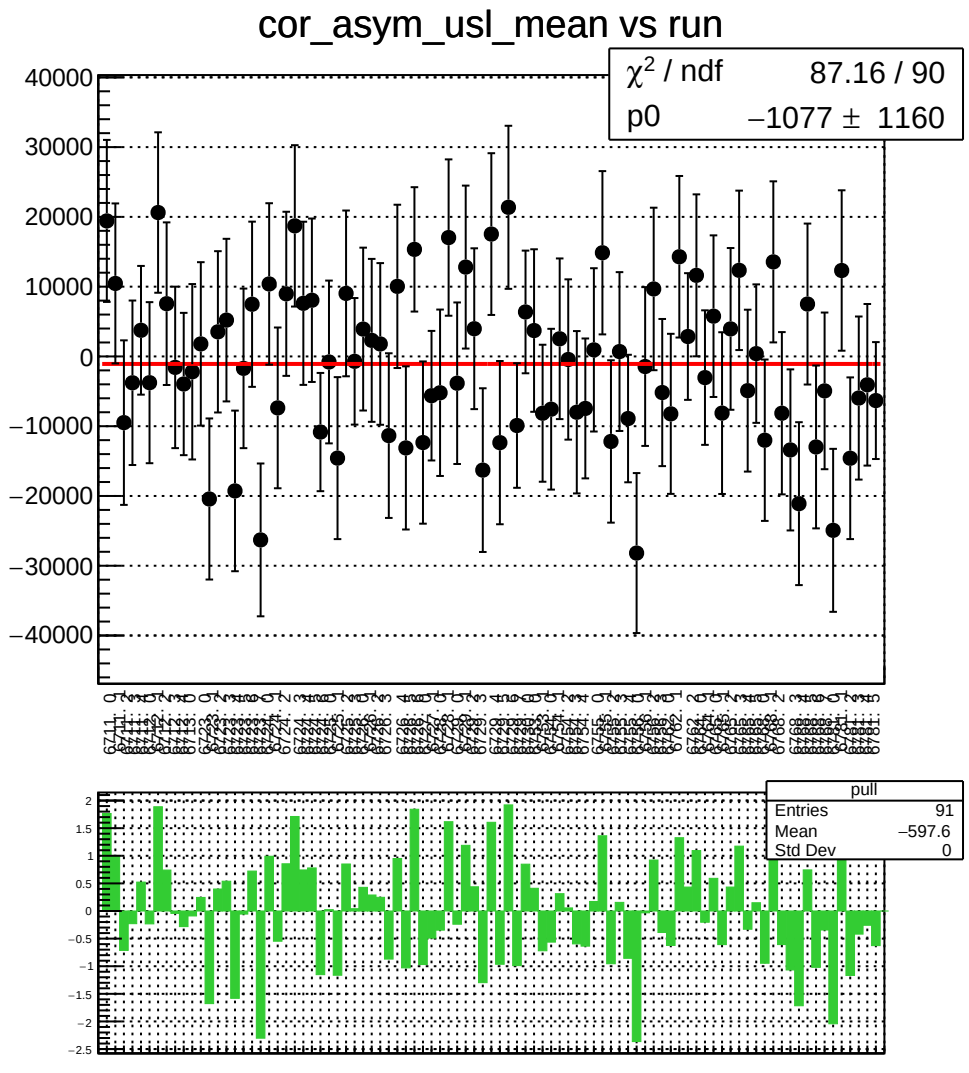

pull1D
Entries 91
Mean 0.006873
Std Dev 0.9786

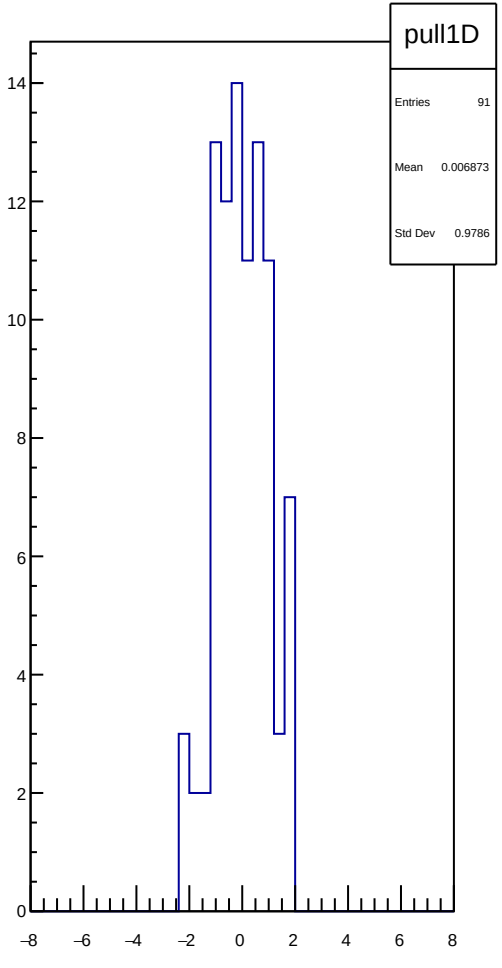

reg_asym_usl_rms vs run
χ² / ndf 133.1 / 90
p0 1102 ± 0.8205
1140
1130
1120
1110
1100
1090
1080
1070

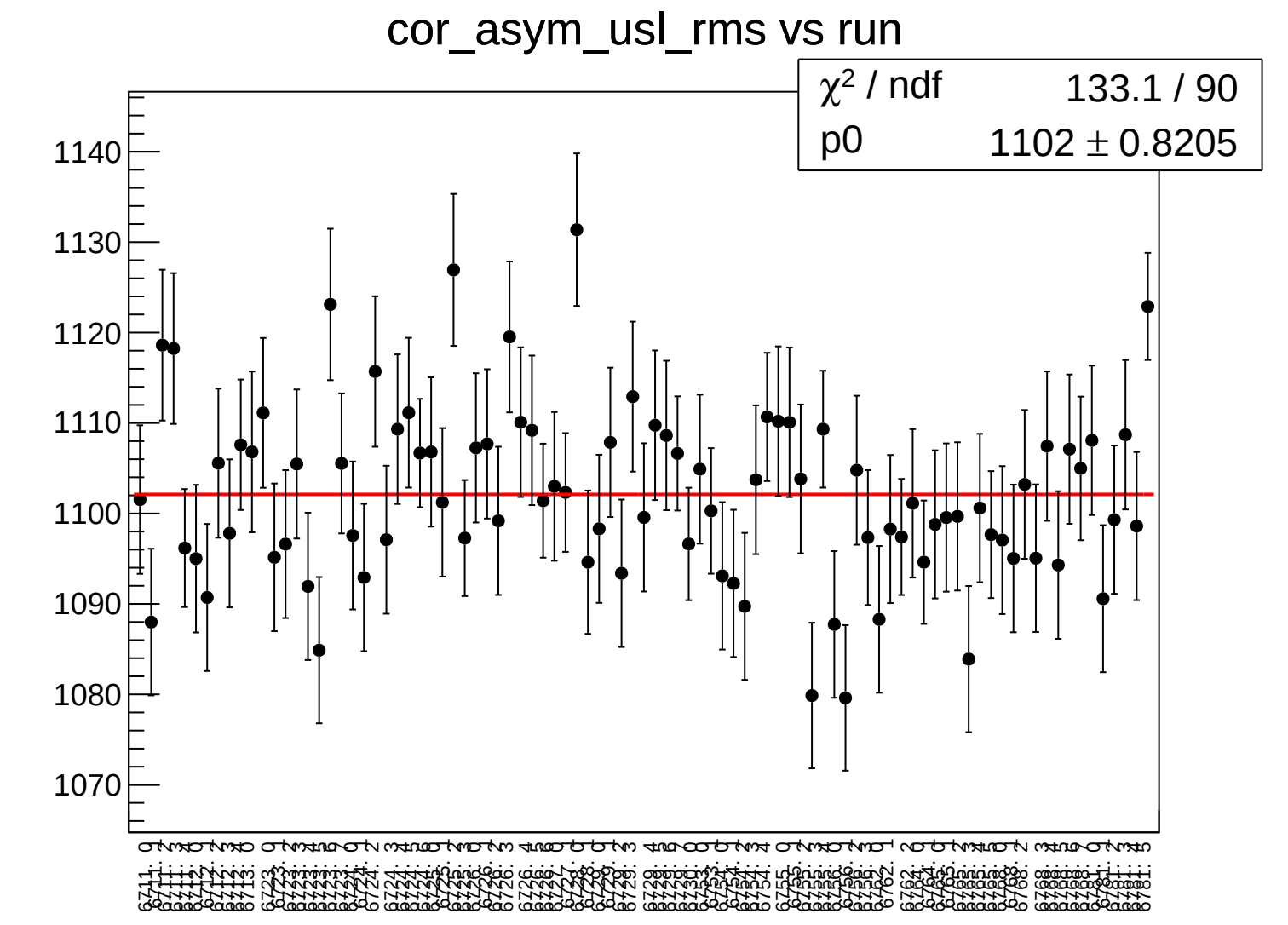

asym_usl_reg_correction_mean vs run
χ² / ndf 92.5 / 90
p0 192.6 ± 1313
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −133.4
Std Dev 0
2
1
0
−1
−2

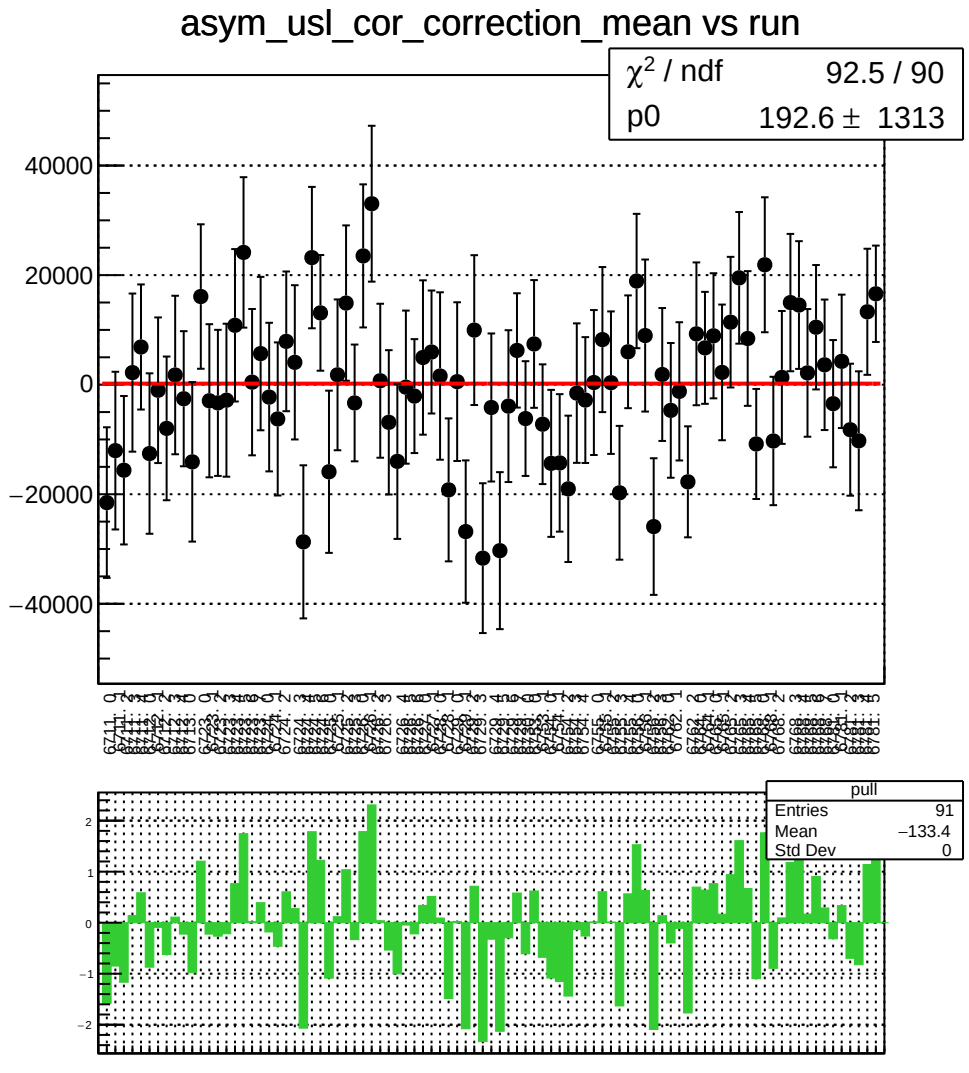

pull1D
Entries 91
Mean −0.02067
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

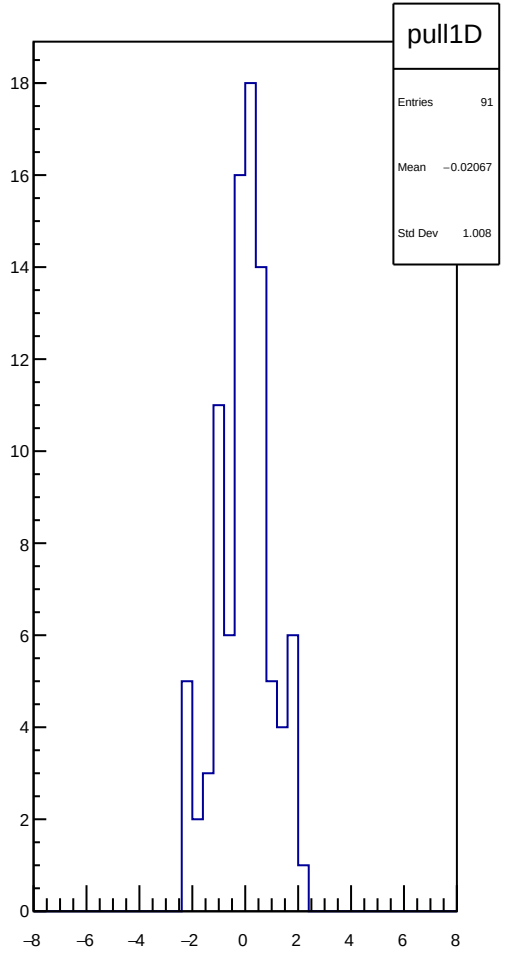

asym_usl_reg_correction_rms vs run
χ² / ndf 8790 / 90
p0 1244 ± 0.9281
1450
1400
1350
1300
1250
1200
1150
1100
1050

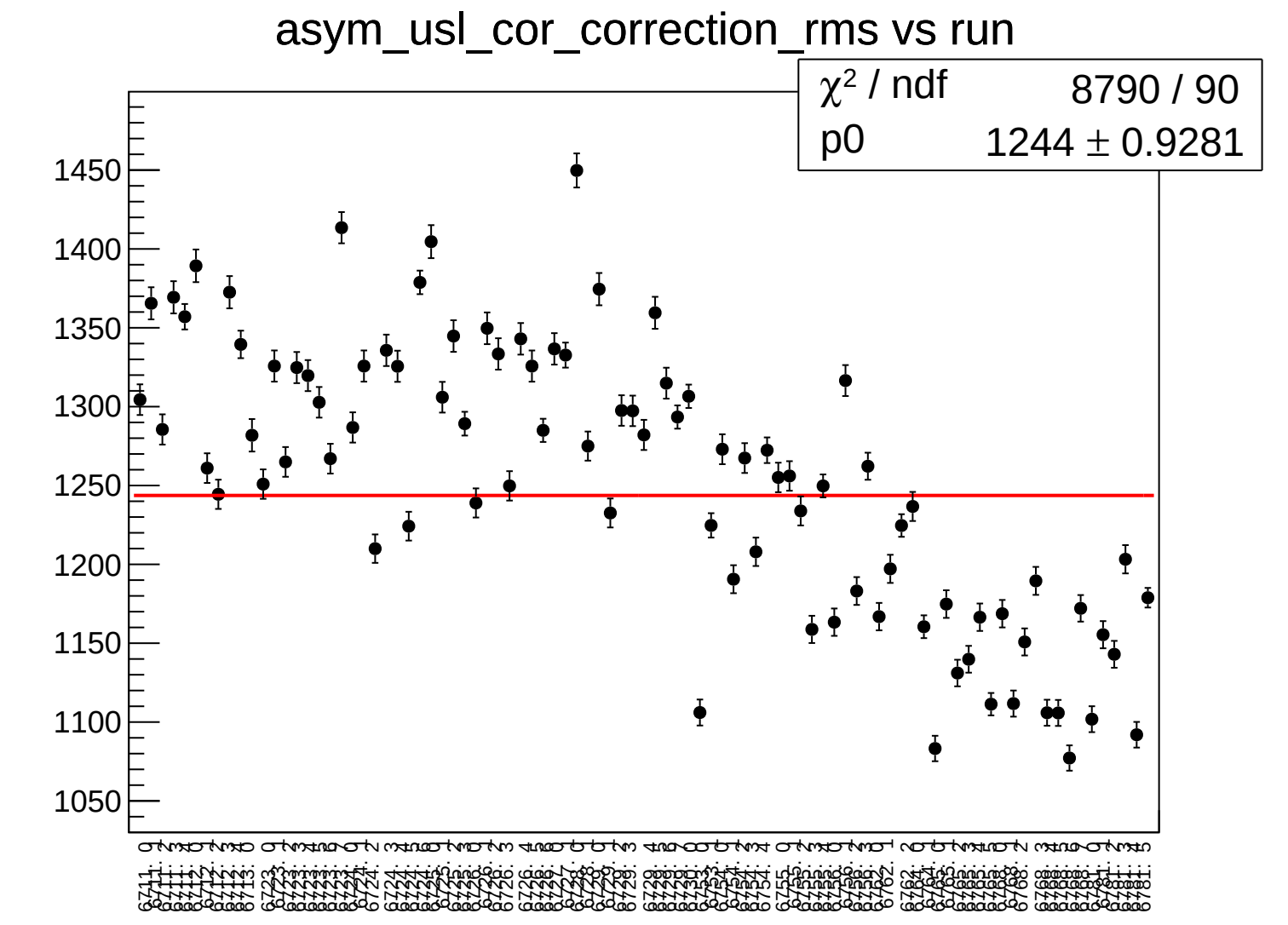

cor_asym_usl_mean vs run
χ² / ndf 87.16 / 90
p0 −1077 ± 1160
pull
Entries 91
Mean −597.6
Std Dev 0

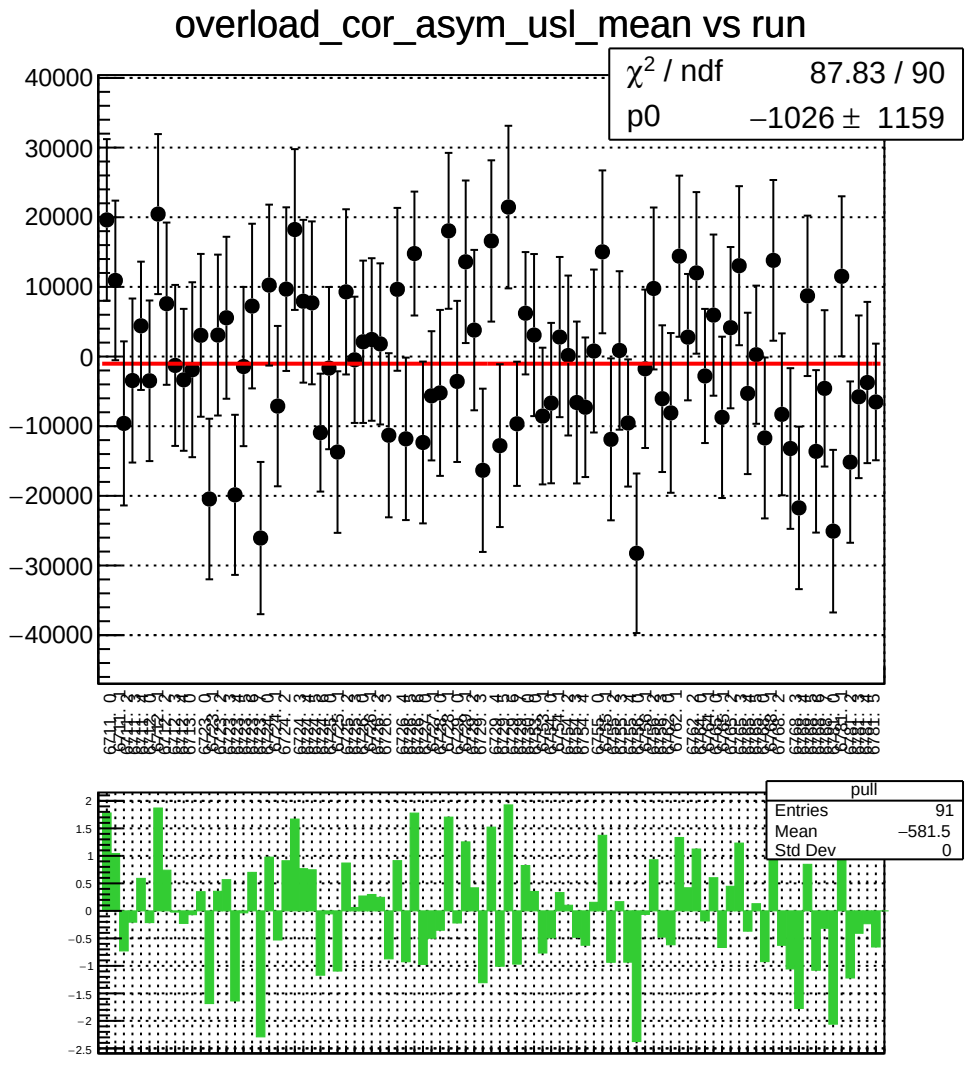

pull1D
Entries 91
Mean 0.006873
Std Dev 0.9786

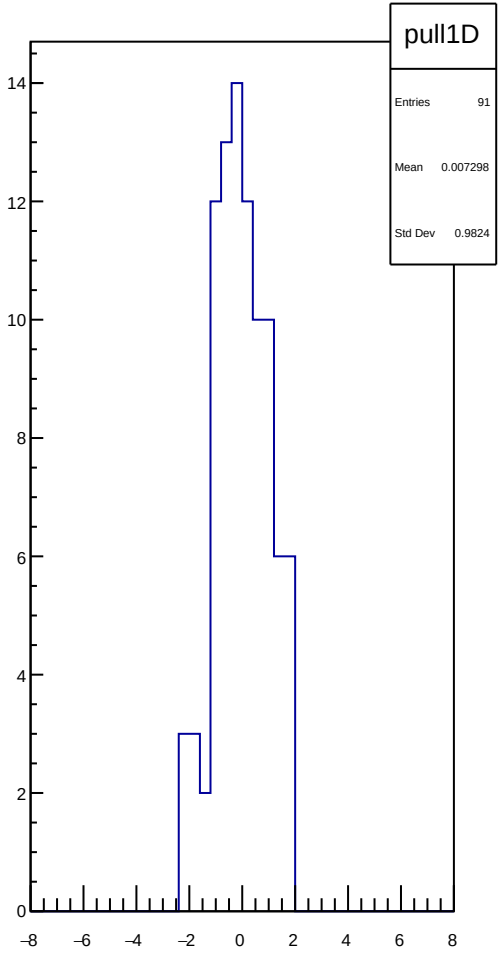

cor_asym_usl_rms vs run
χ² / ndf 133.1 / 90
p0 1102 ± 0.8205
1140
1130
1120
1110
1100
1090
1080
1070

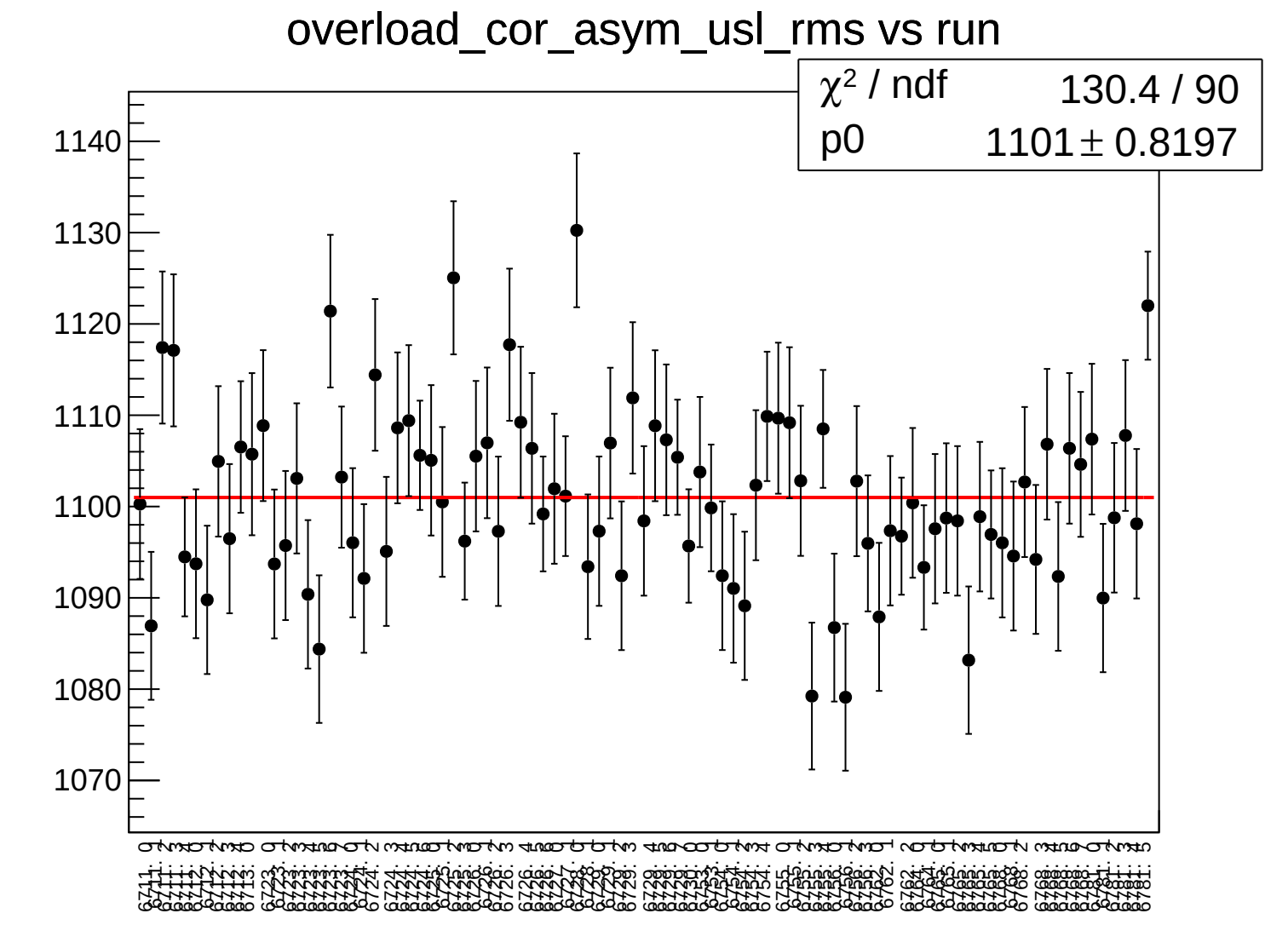

asym_usl_cor_correction_mean vs run
χ² / ndf 92.5 / 90
p0 192.6 ± 1313
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −133.4
Std Dev 0
2
1
0
−1
−2

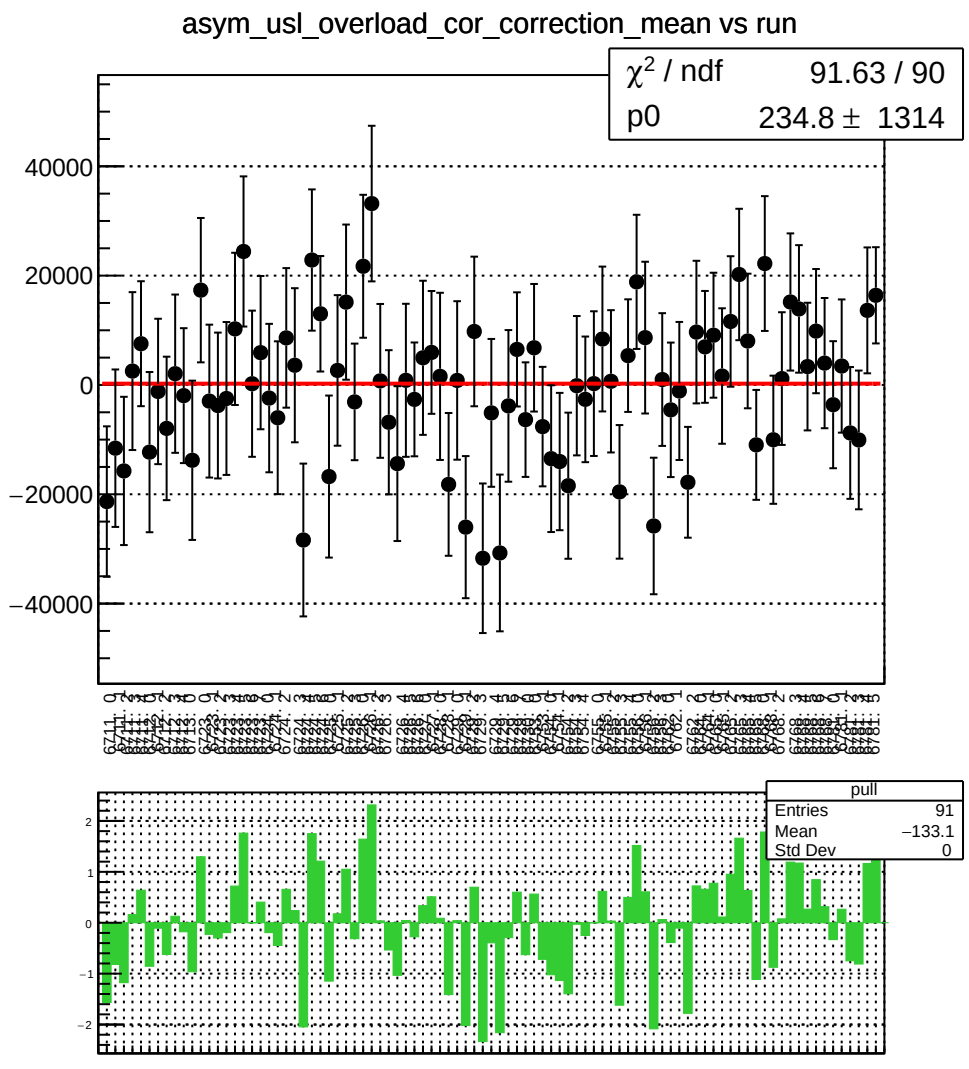

pull1D
Entries 91
Mean −0.02067
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

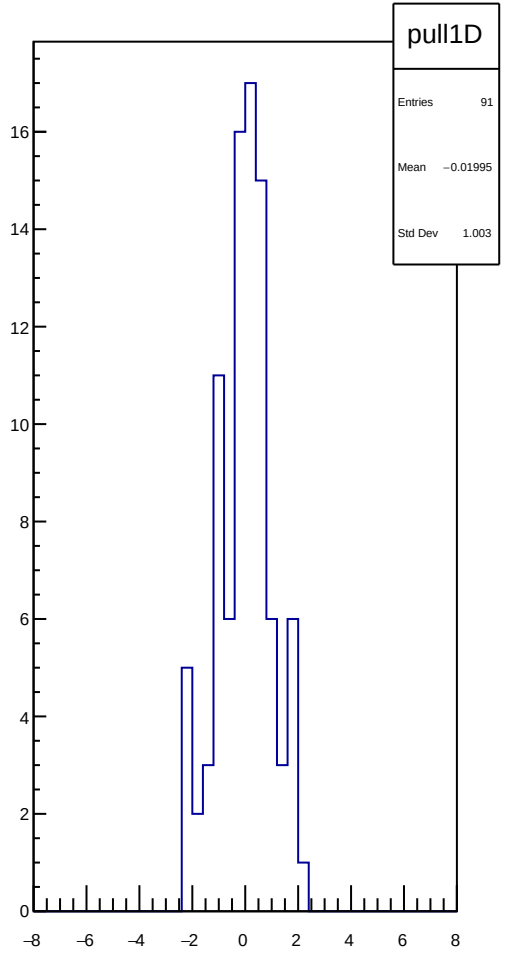

asym_usl_cor_correction_rms vs run
χ² / ndf 8790 / 90
p0 1244 ± 0.9281
1450
1400
1350
1300
1250
1200
1150
1100
1050

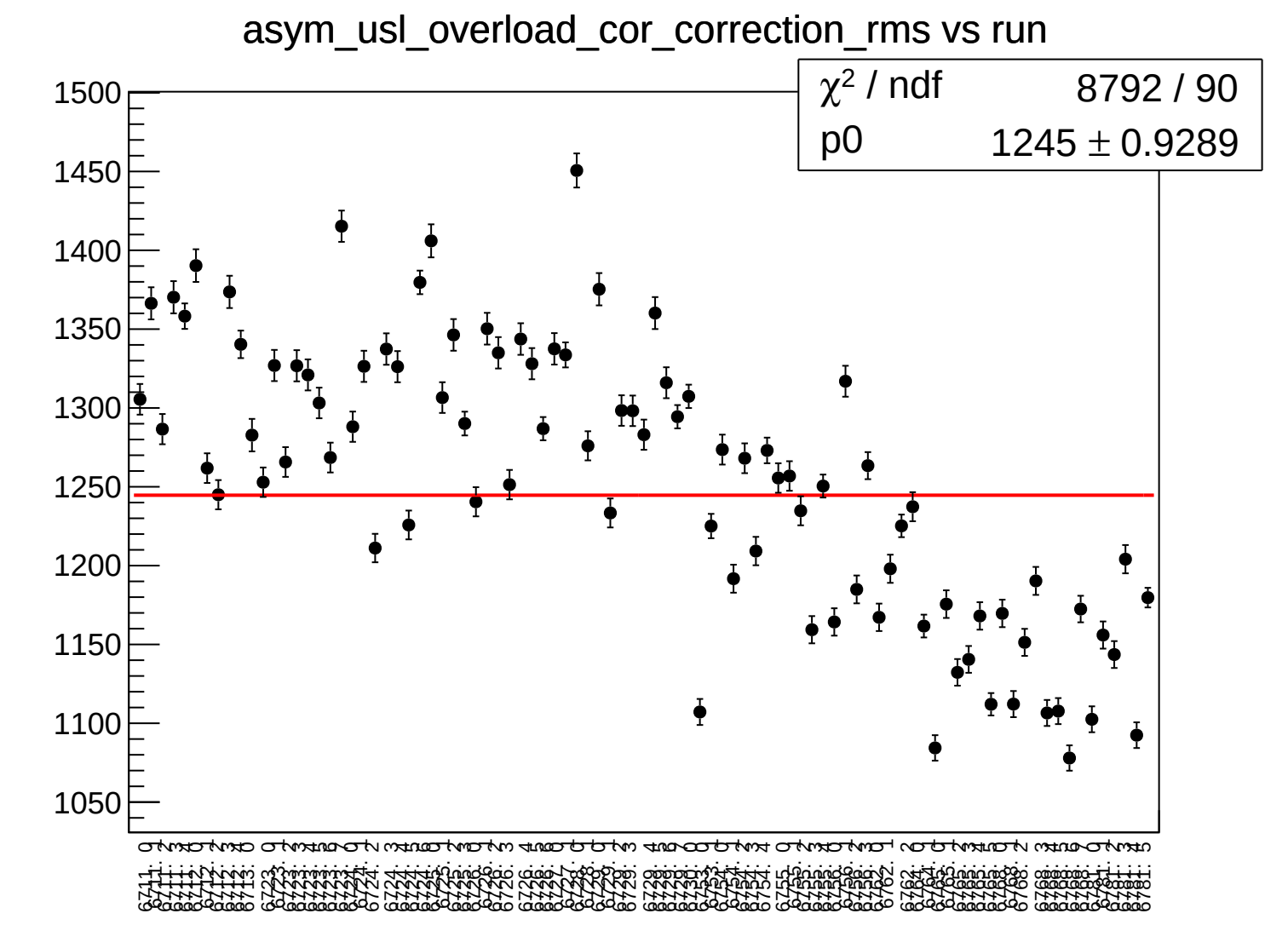

overload_cor_asym_usl_mean vs run
χ² / ndf 87.83 / 90
p0 −1026 ± 1159
pull
Entries 91
Mean −581.5
Std Dev 0

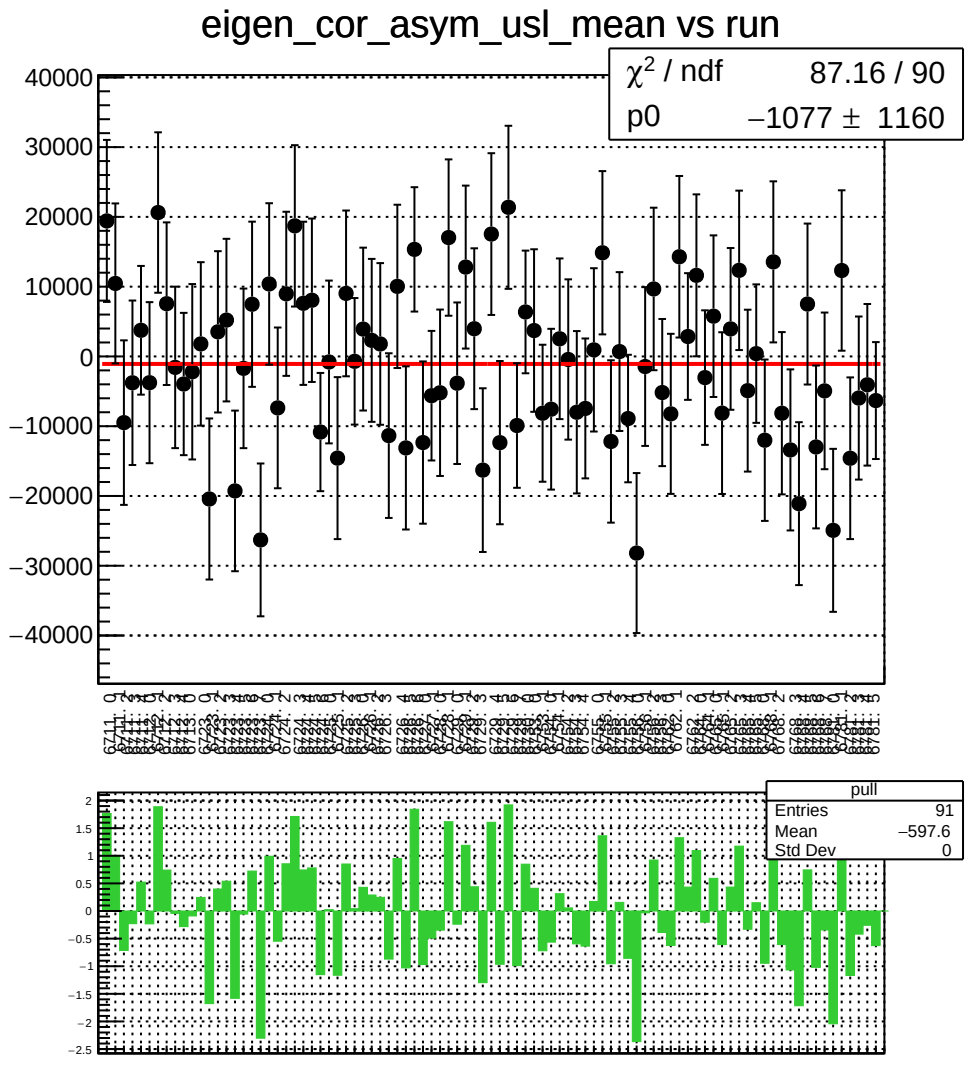

pull1D
Entries 91
Mean 0.007298
Std Dev 0.9824

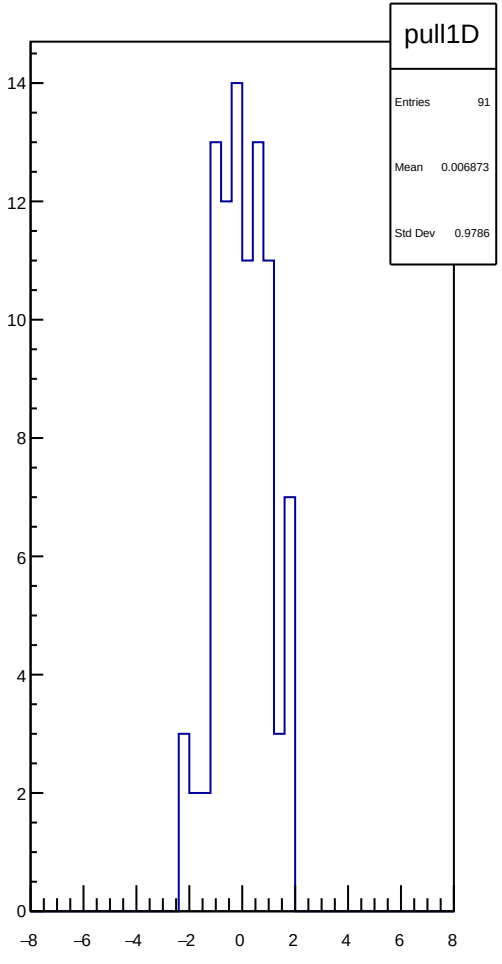

overload_cor_asym_usl_rms vs run
χ² / ndf 130.4 / 90
p0 1101 ± 0.8197
1140
1130
1120
1110
1100
1090
1080
1070

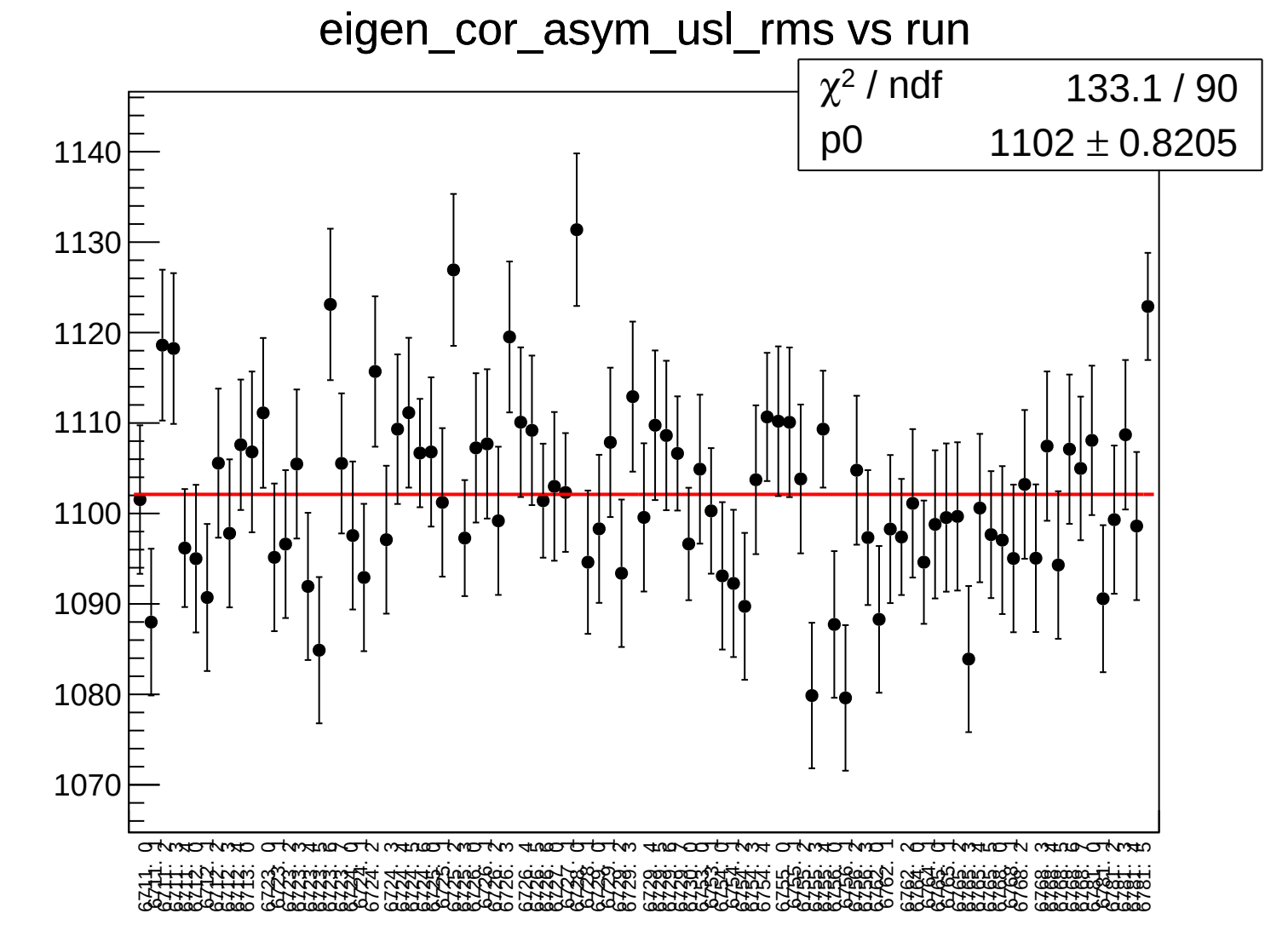

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 91.63 / 90
p0 234.8 ± 1314
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −133.1
Std Dev 0
2
1
0
−1
−2

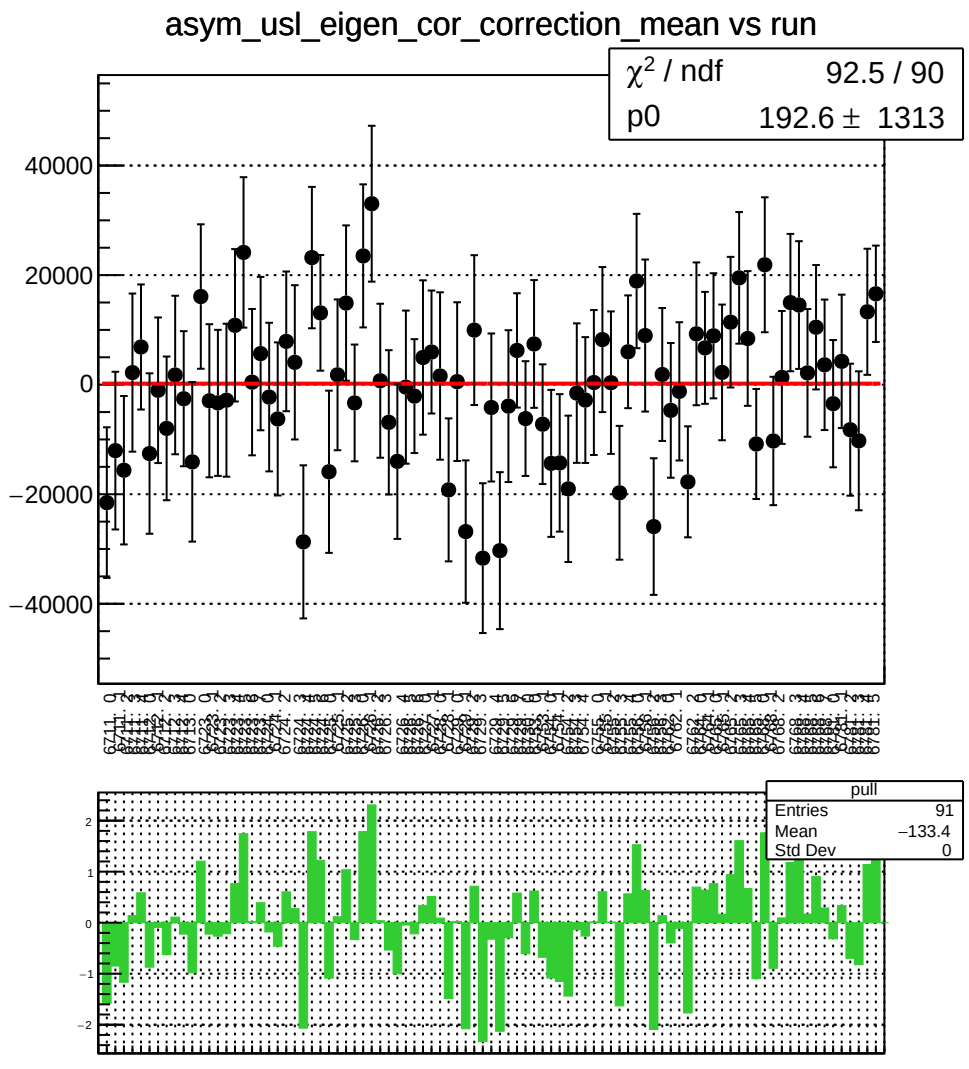

pull1D
Entries 91
Mean −0.01995
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

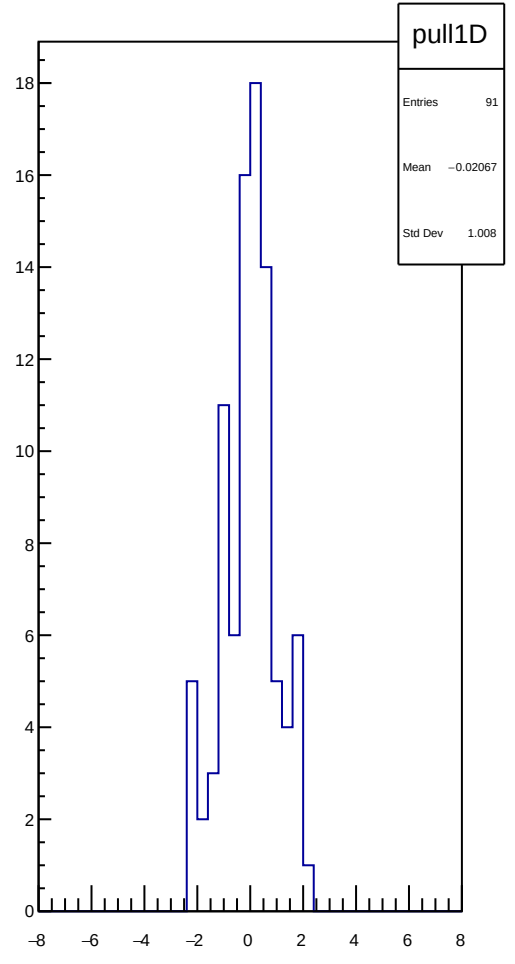

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 8792 / 90
p0 1245 ± 0.9289
1500
1450
1400
1350
1300
1250
1200
1150
1100
1050


eigen_cor_asym_usl_mean vs run
χ² / ndf 87.16 / 90
p0 −1077 ± 1160
pull
Entries 91
Mean −597.6
Std Dev 0


pull1D
Entries 91
Mean 0.006873
Std Dev 0.9786


eigen_cor_asym_usl_rms vs run
χ² / ndf 133.1 / 90
p0 1102 ± 0.8205
1140
1130
1120
1110
1100
1090
1080
1070


asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 92.5 / 90
p0 192.6 ± 1313
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −133.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.02067
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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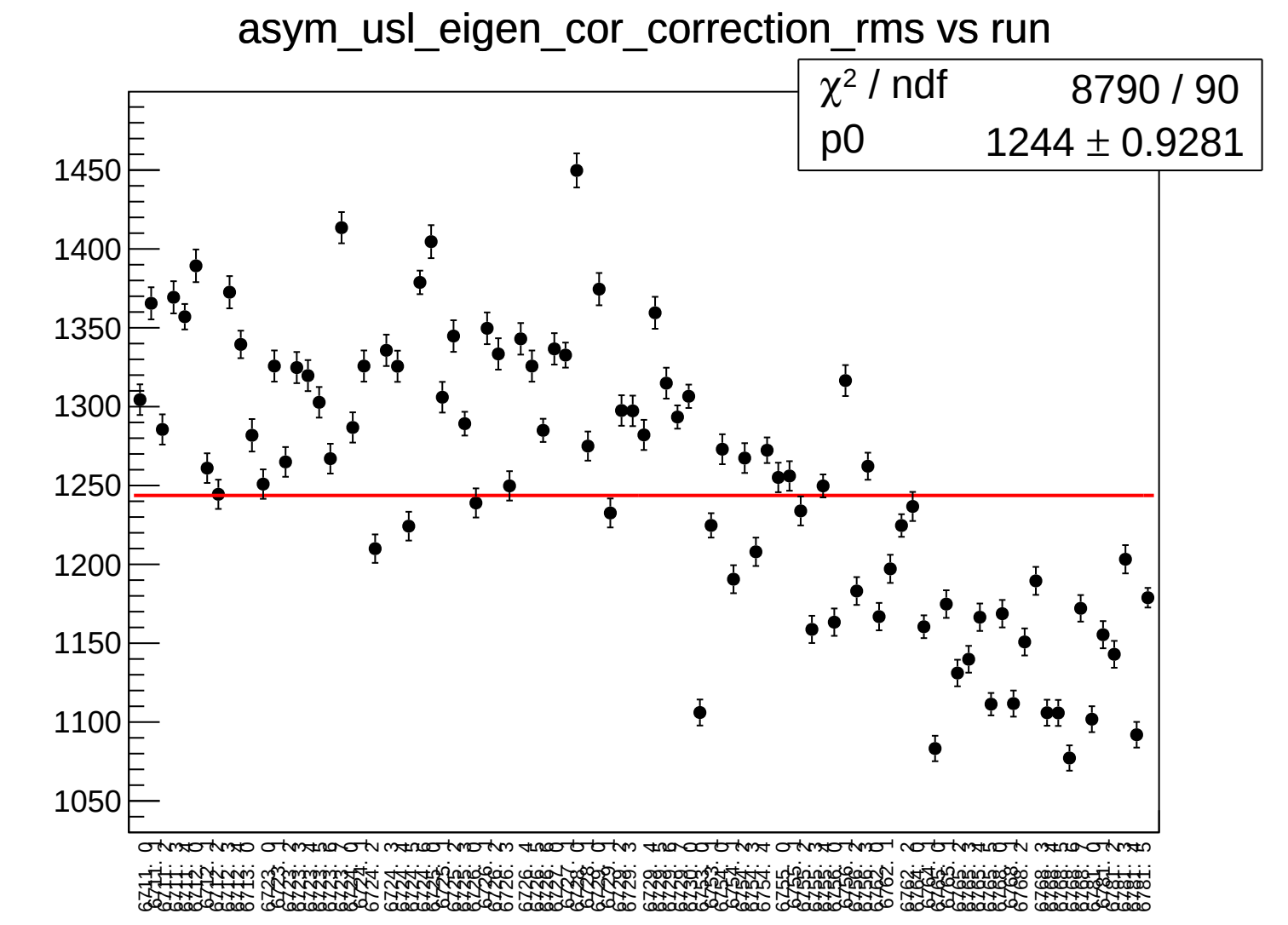
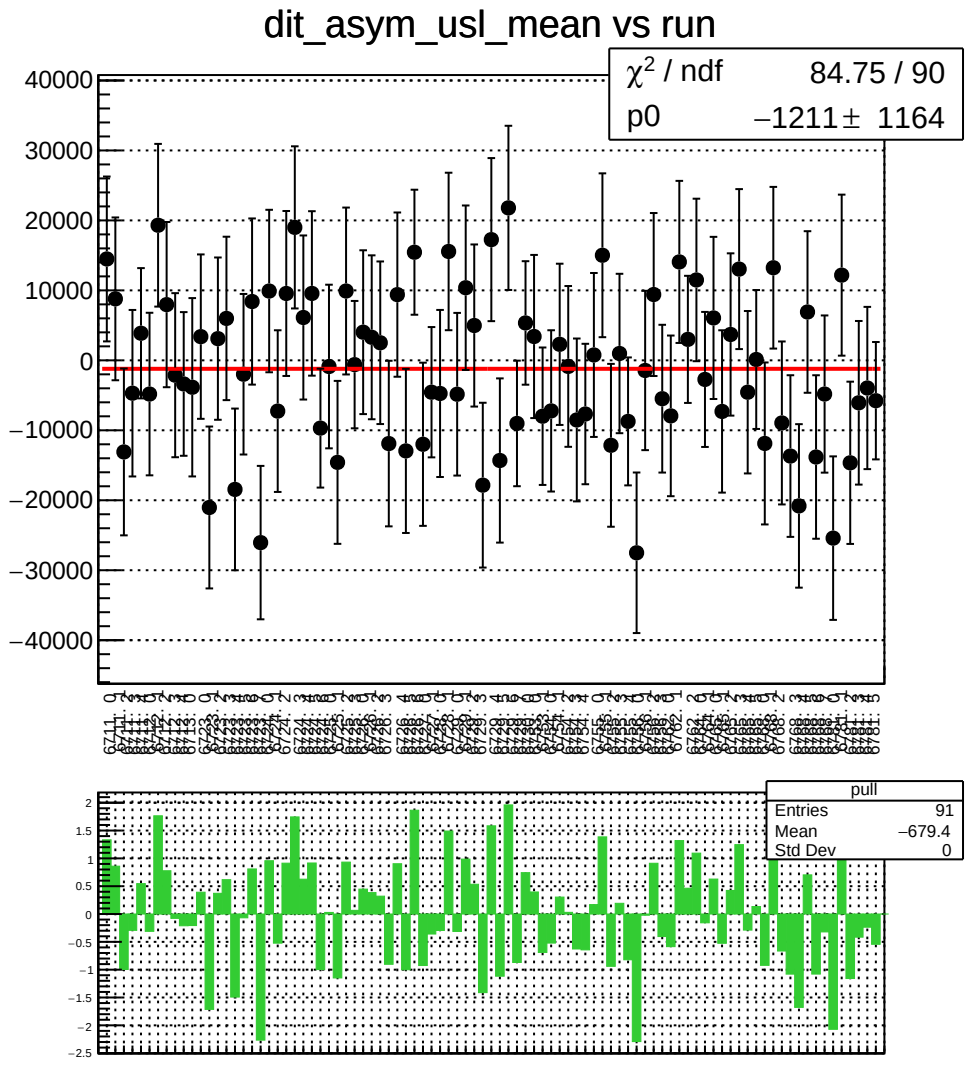
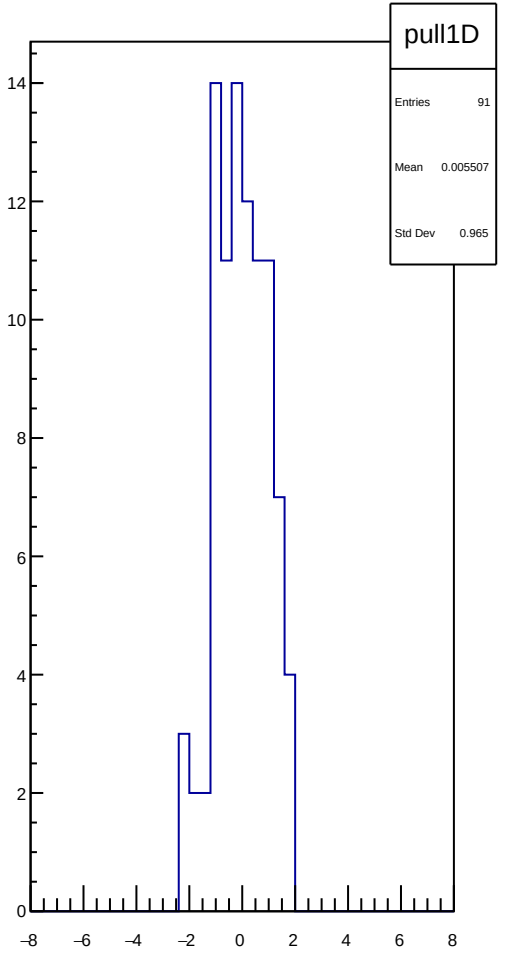
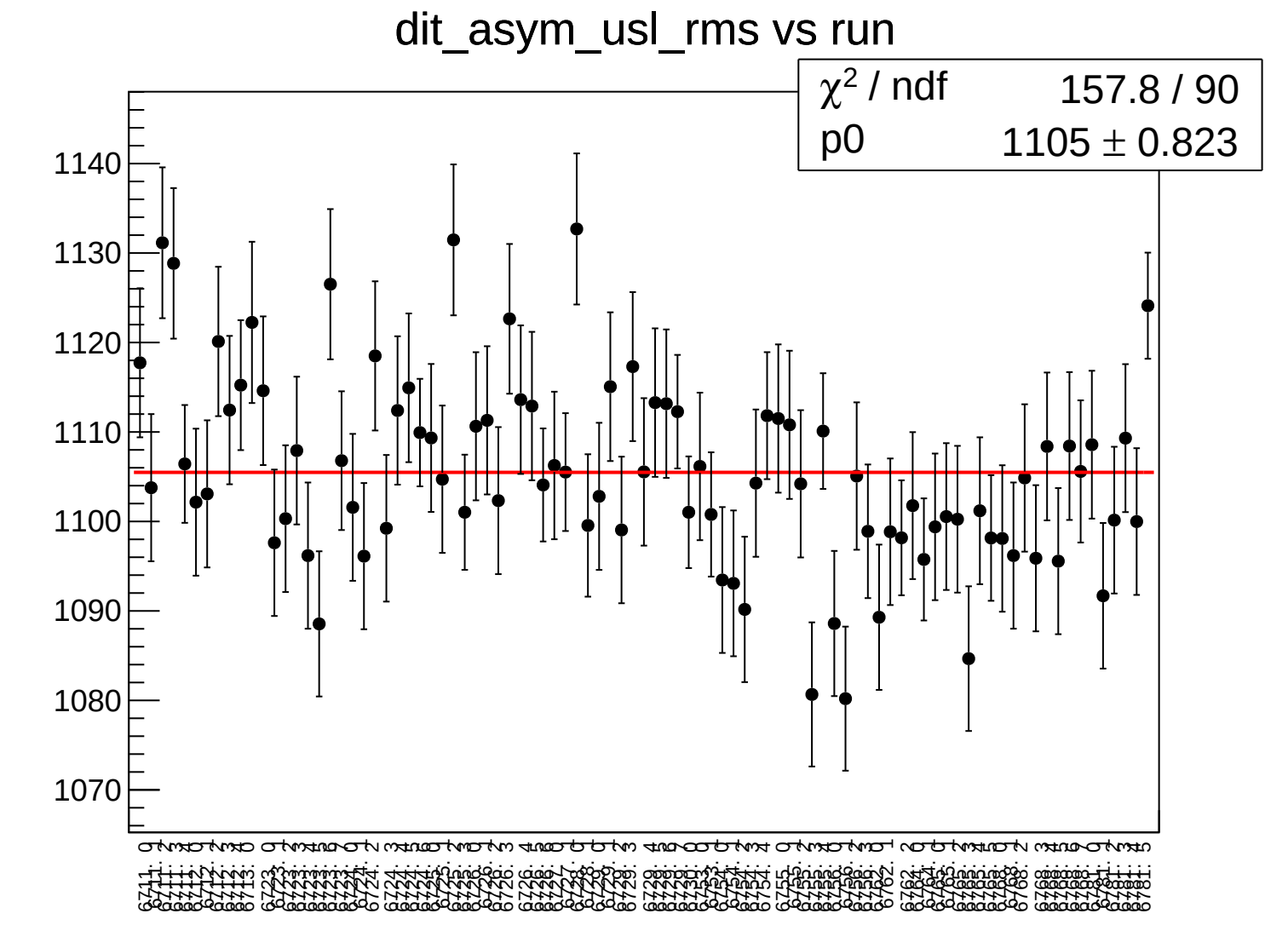
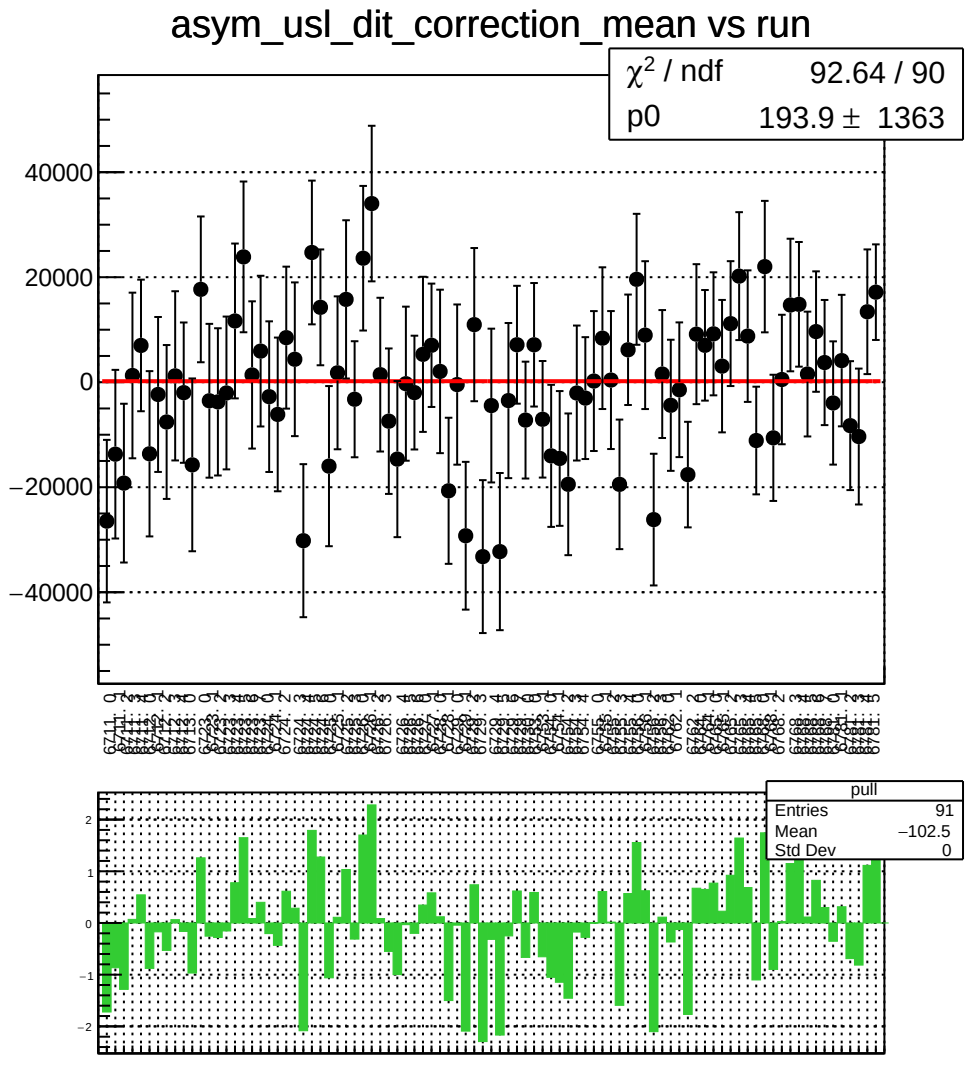
0
2
4
6
8

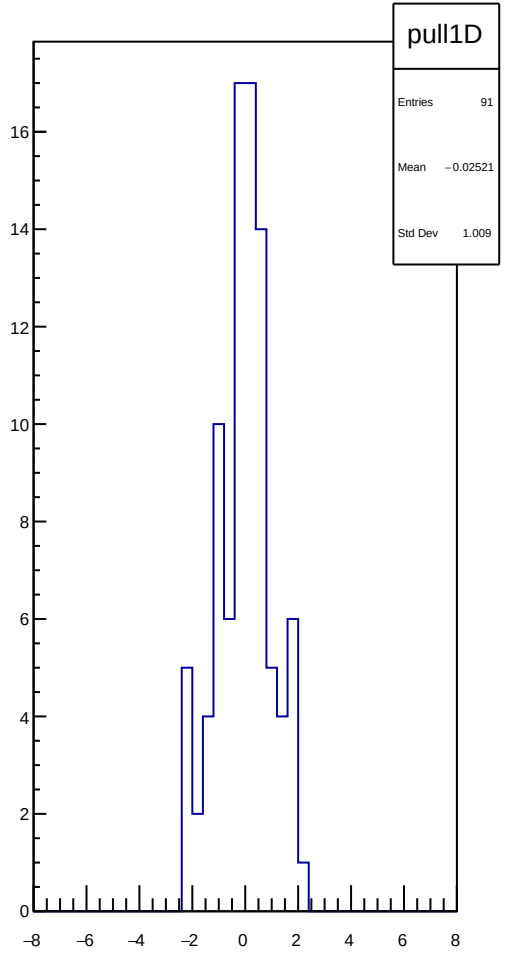

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 8790 / 90
p0 1244 ± 0.9281
1450
1400
1350
1300
1250
1200
1150
1100
1050

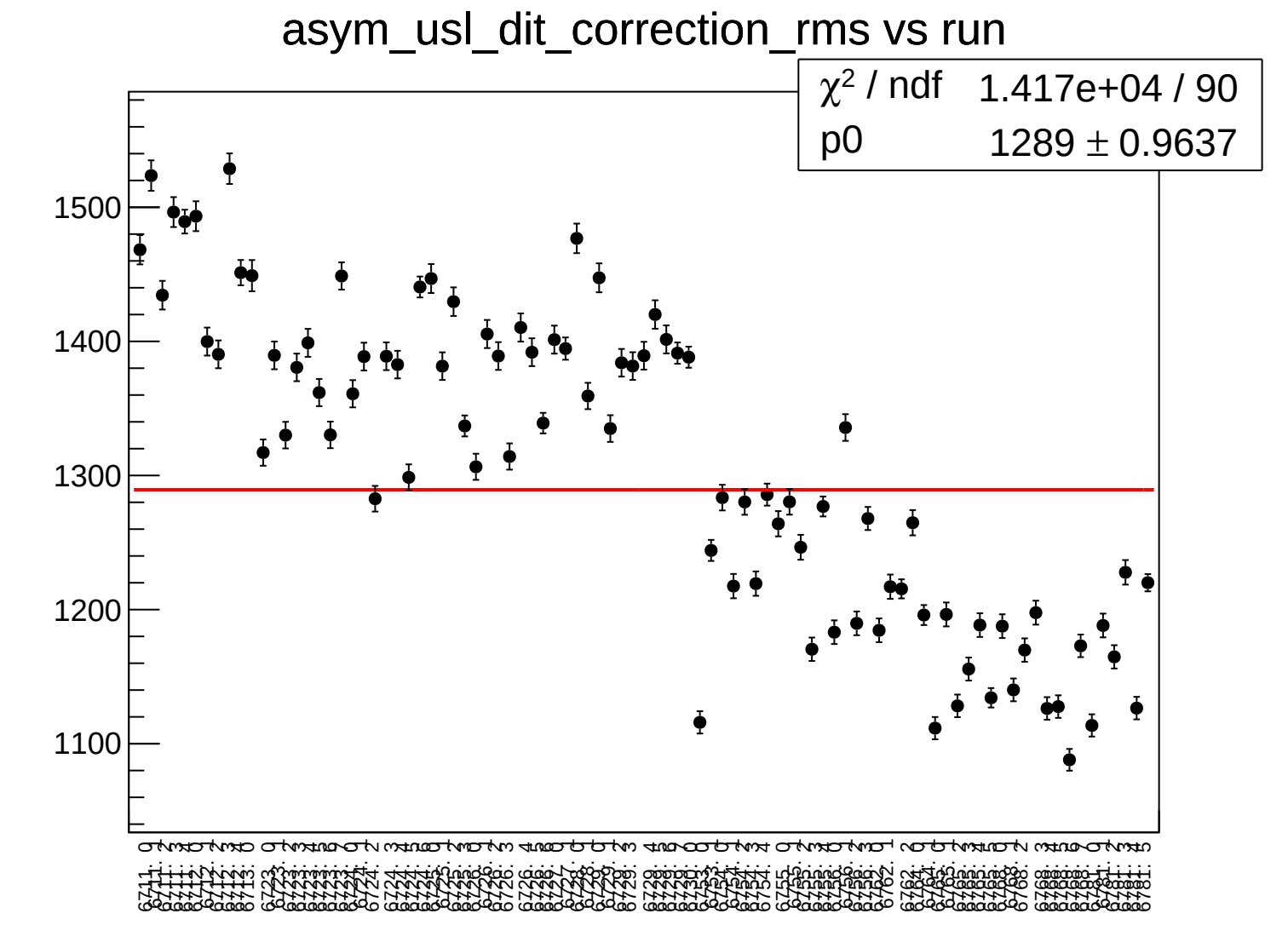

dit_asym_usl_mean vs run
χ² / ndf 84.75 / 90
p0 −1211 ± 1164
pull
Entries 91
Mean −679.4
Std Dev 0

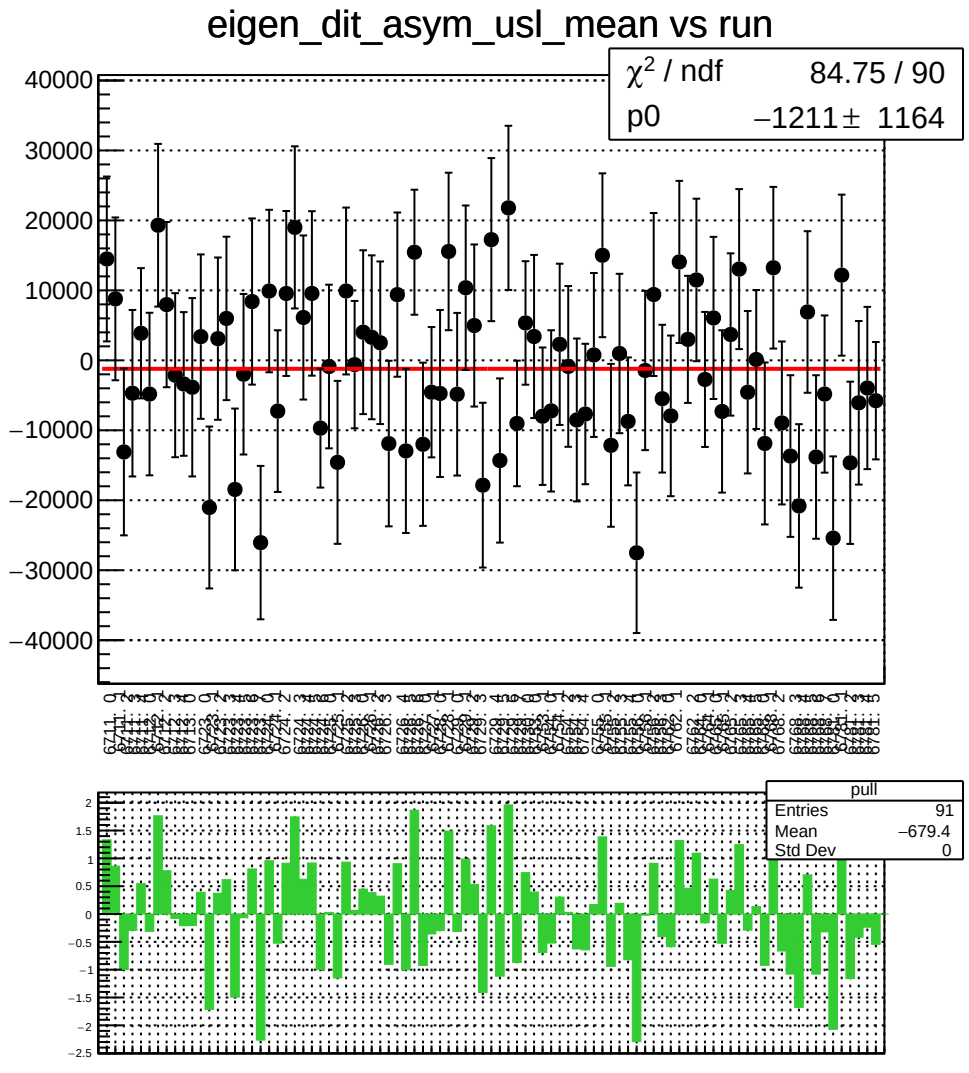

pull1D
Entries 91
Mean 0.005507
Std Dev 0.965

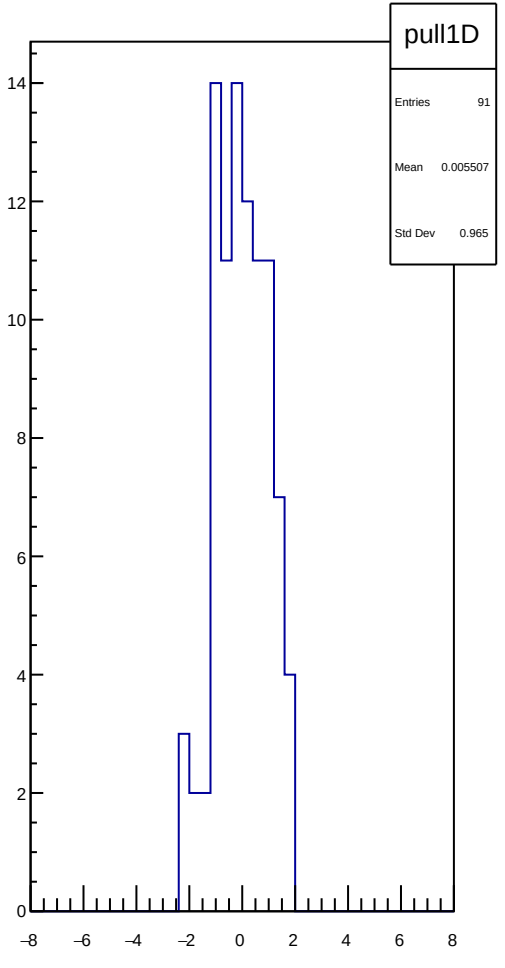

dit_asym_usl_rms vs run
χ² / ndf 157.8 / 90
p0 1105 ± 0.823
1140
1130
1120
1110
1100
1090
1080
1070

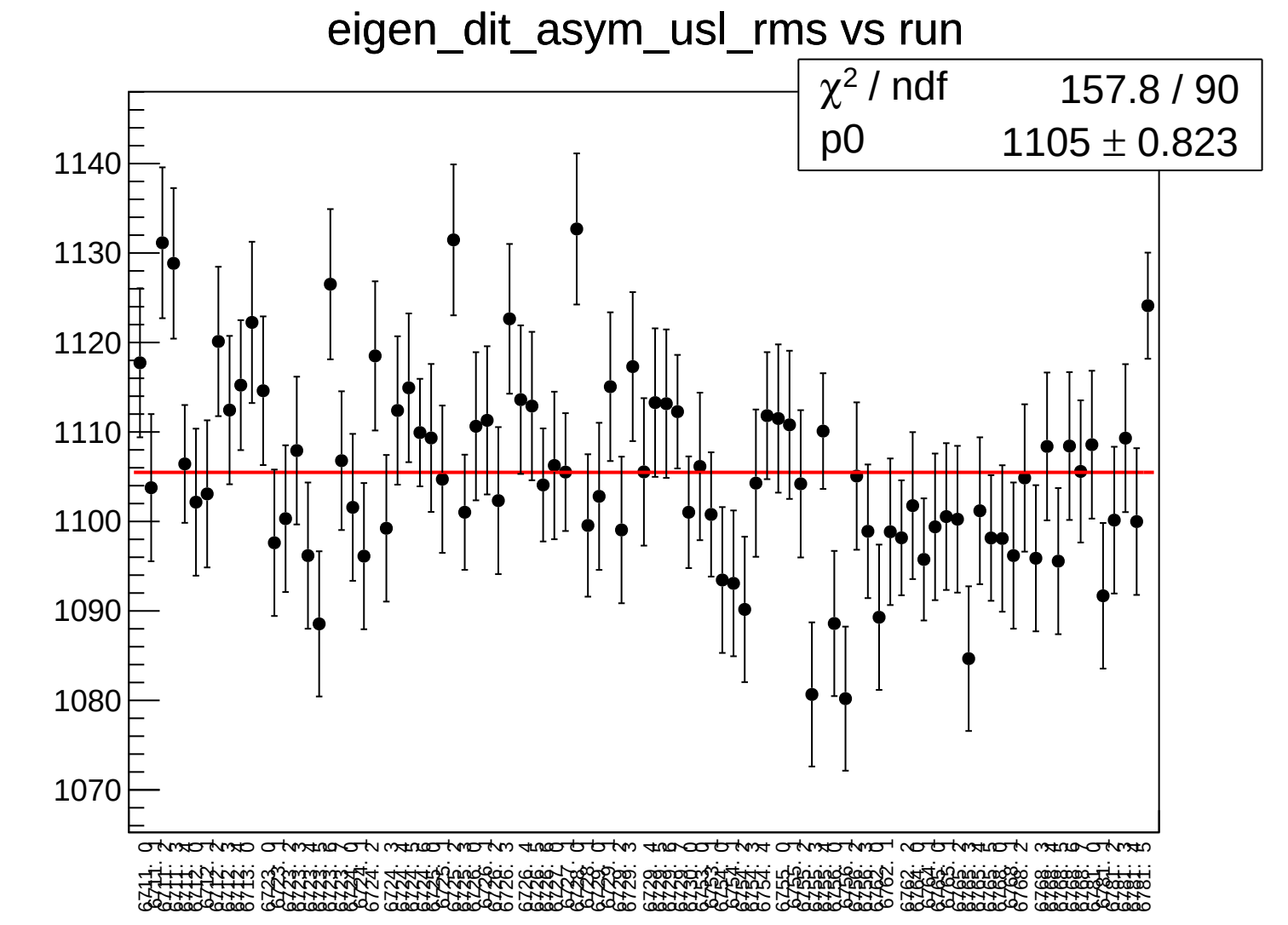

asym_usl_dit_correction_mean vs run
χ² / ndf 92.64 / 90
p0 193.9 ± 1363
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −102.5
Std Dev 0
2
1
0
−1
−2

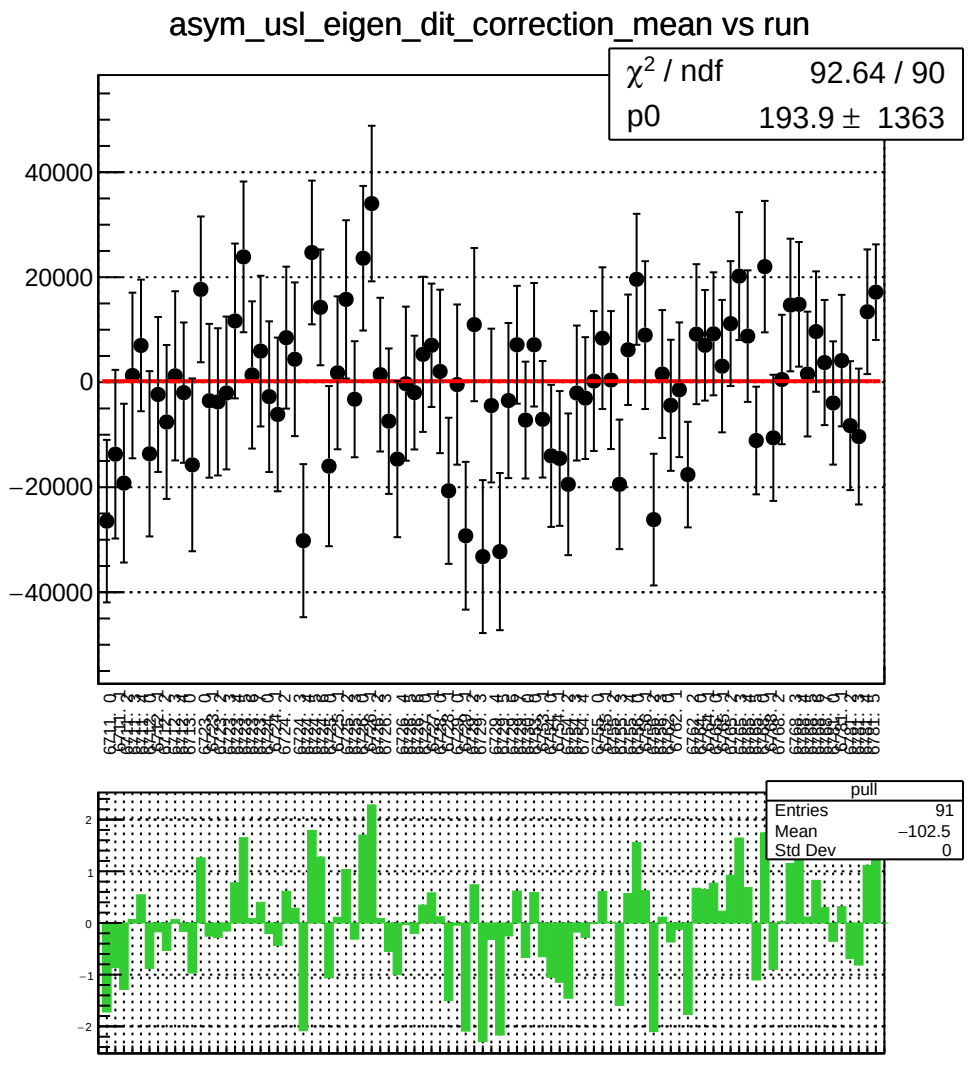

pull1D
Entries 91
Mean −0.02521
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

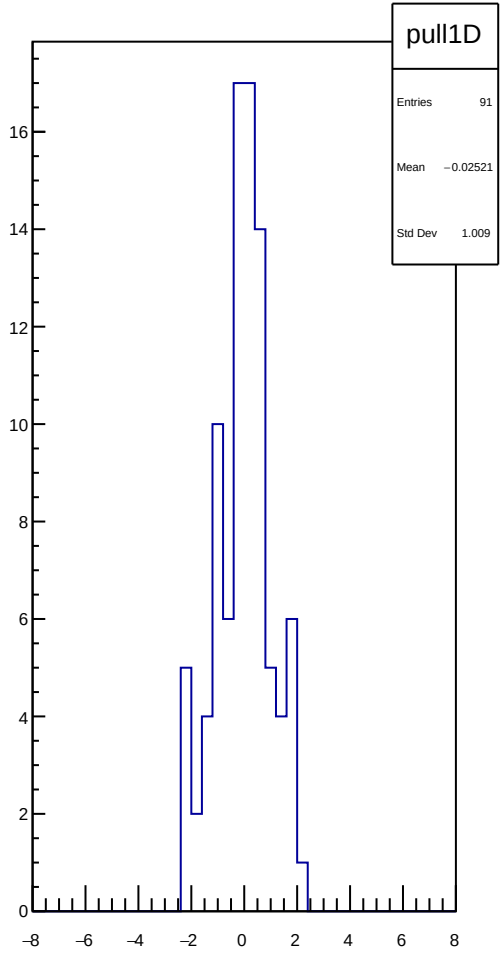

asym_usl_dit_correction_rms vs run
χ² / ndf 1.417e+04 / 90
p0 1289 ± 0.9637
1500
1400
1300
1200
1100

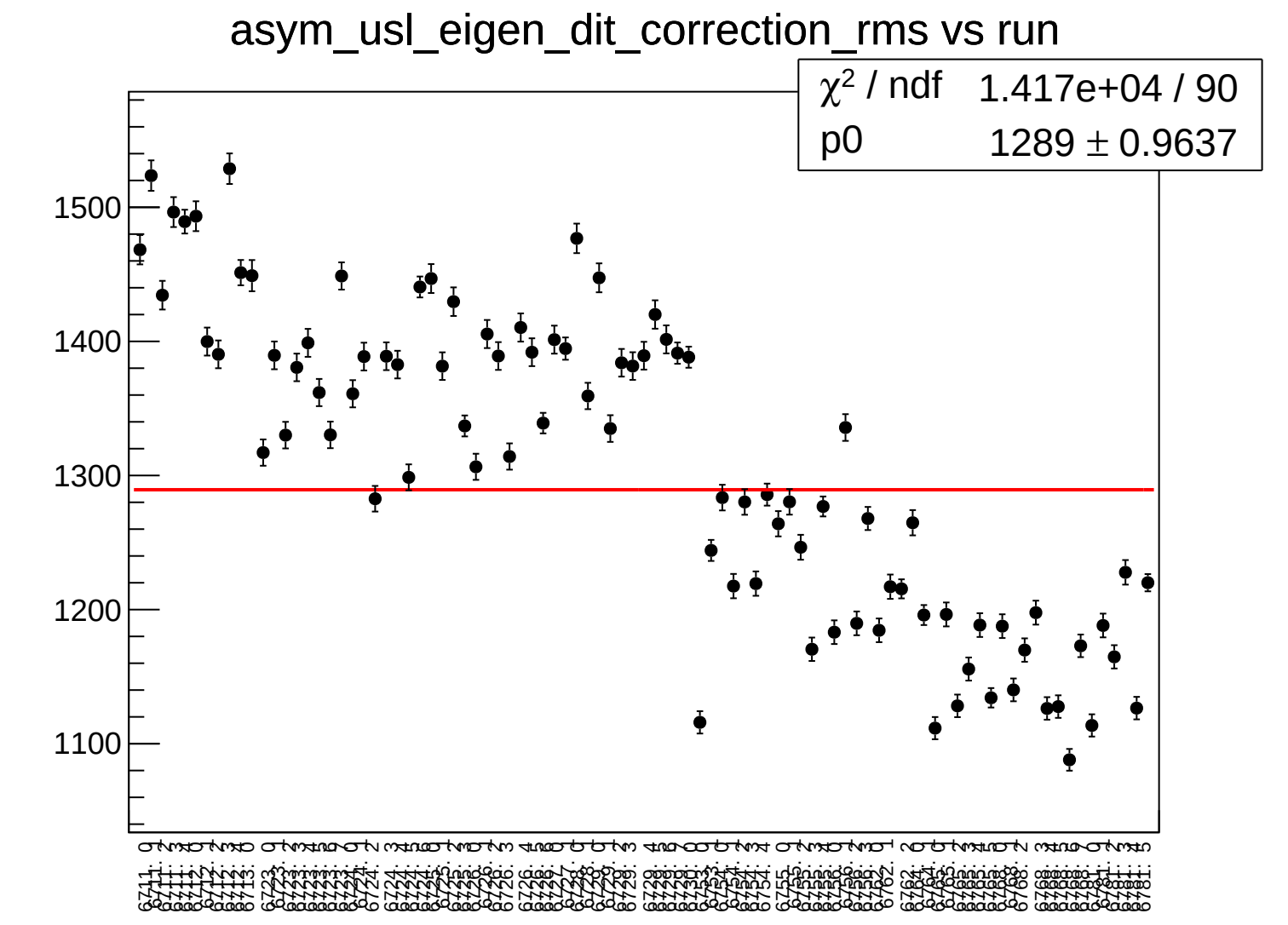

eigen_dit_asym_usl_mean vs run
χ² / ndf 84.75 / 90
p0 −1211 ± 1164
pull
Entries 91
Mean −679.4
Std Dev 0

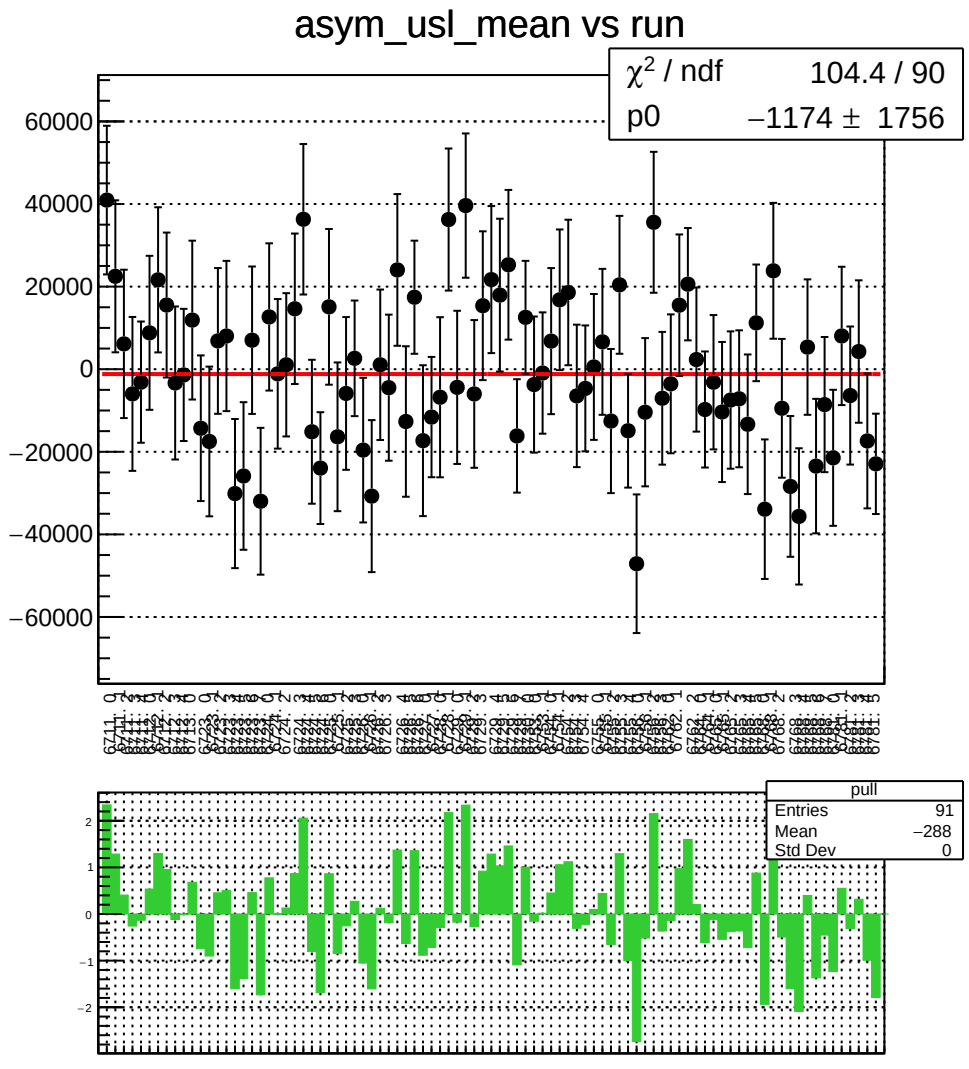

pull1D
Entries 91
Mean 0.005507
Std Dev 0.965

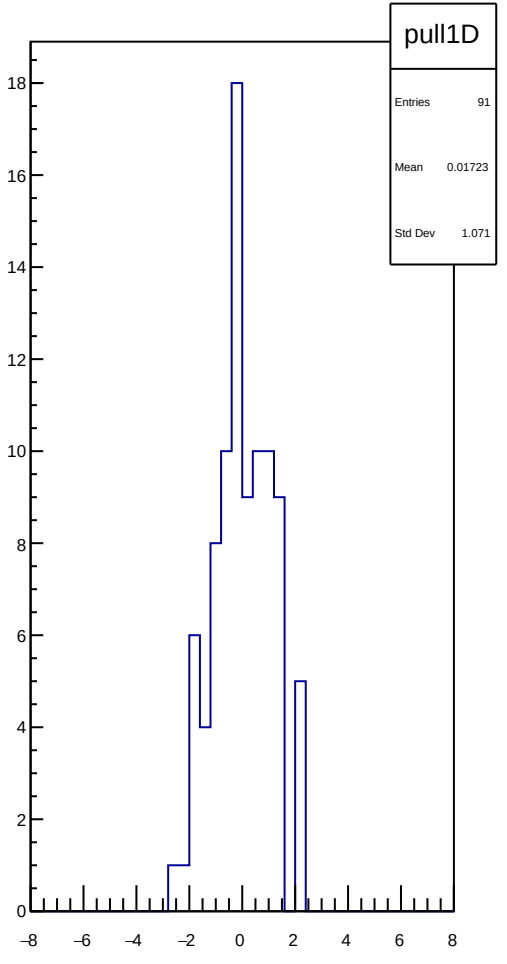

eigen_dit_asym_usl_rms vs run
χ^2 / ndf 157.8 / 90
p0 1105 ± 0.823
1140
1130
1120
1110
1100
1090
1080
1070

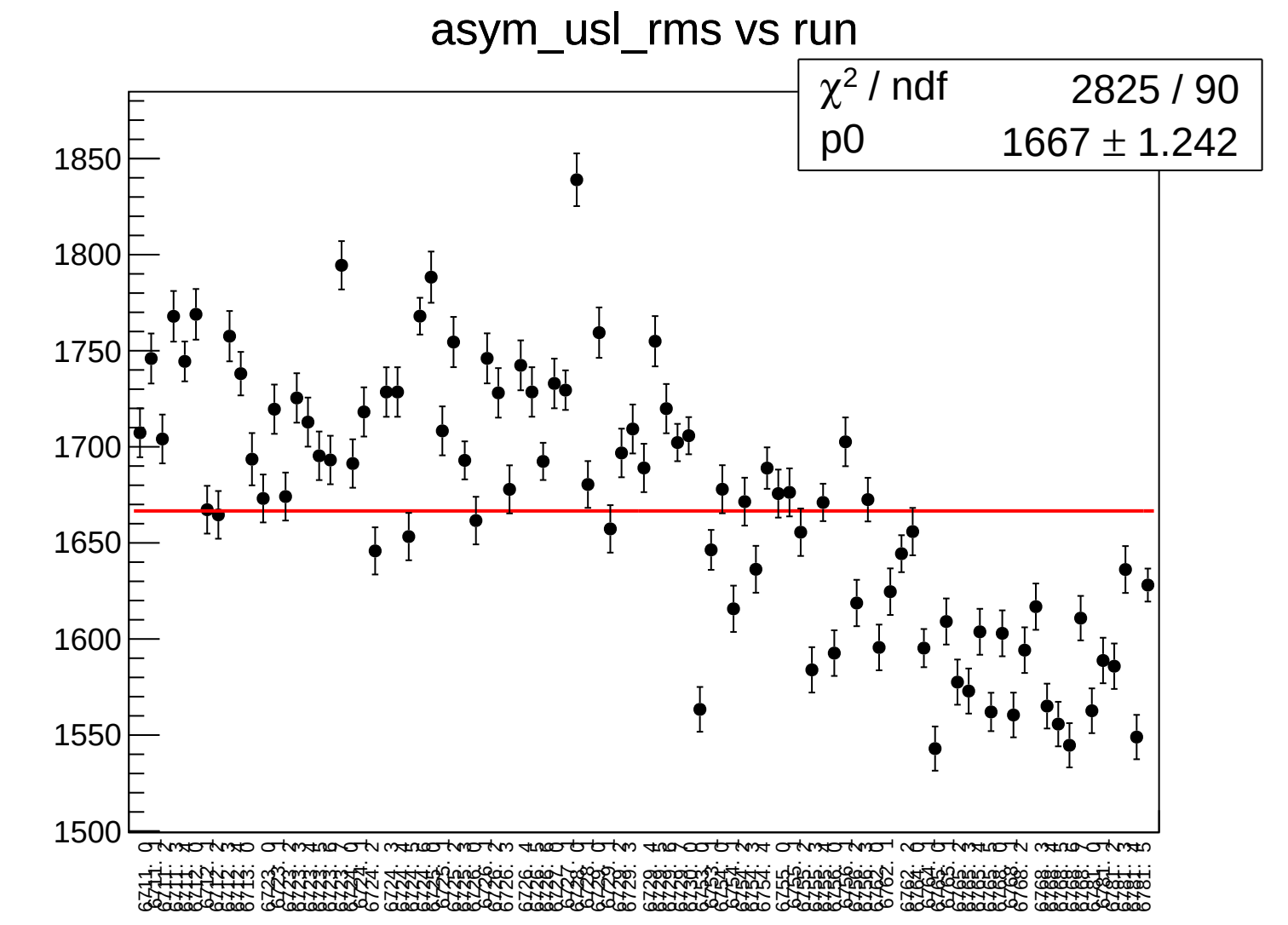

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 92.64 / 90
p0 193.9 ± 1363
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −102.5
Std Dev 0
2
1
0
−1
−2

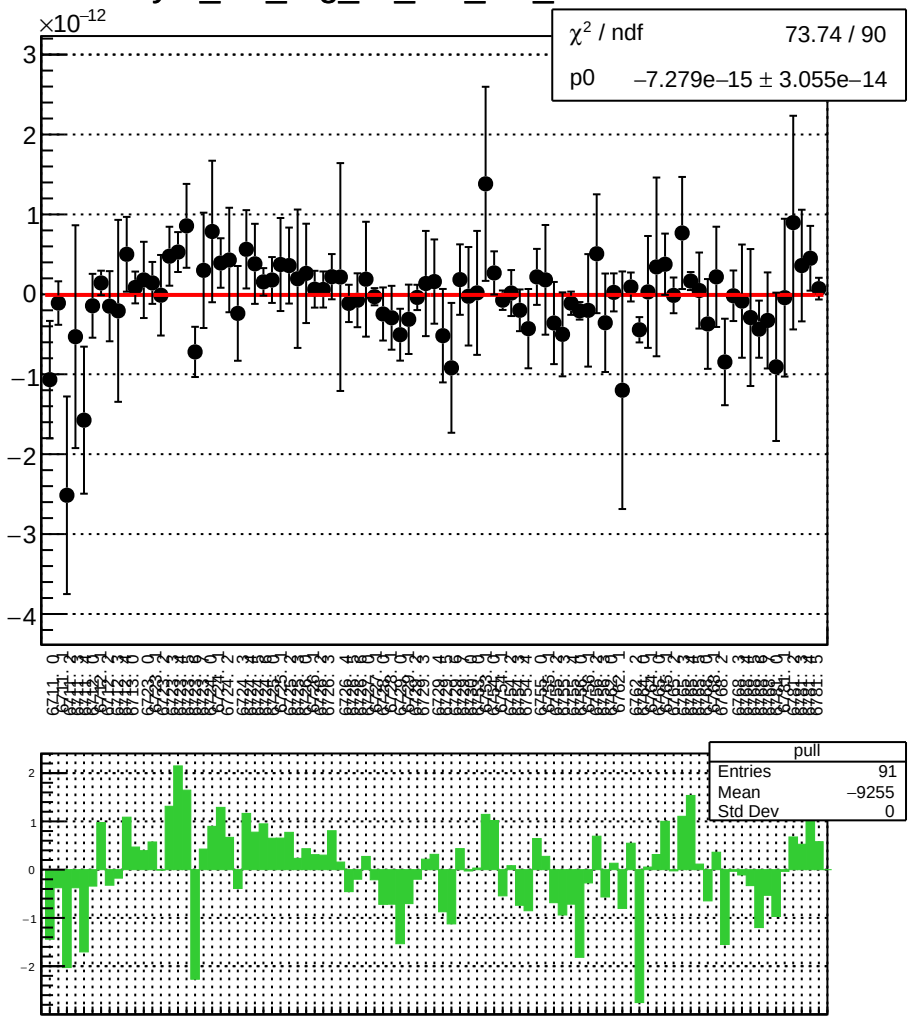

pull1D
Entries 91
Mean −0.02521
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

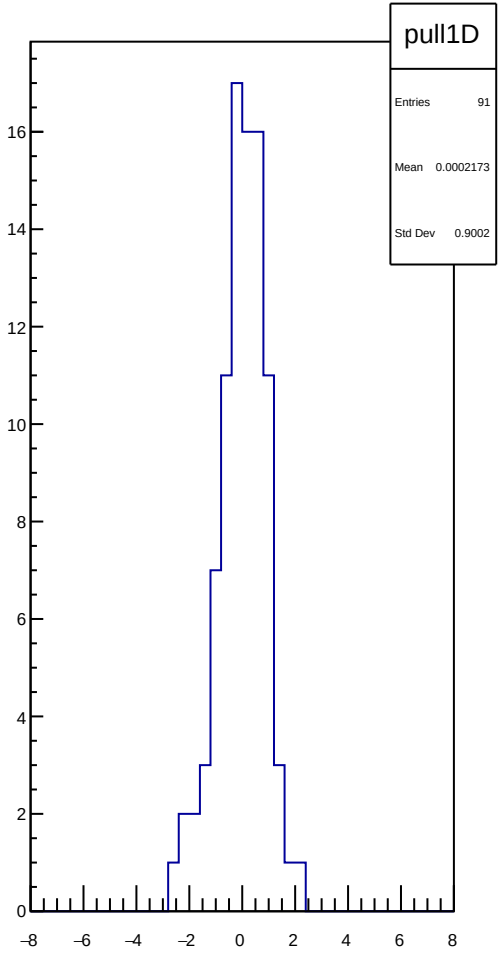

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 1.417e+04 / 90
p0 1289 ± 0.9637
1500
1400
1300
1200
1100

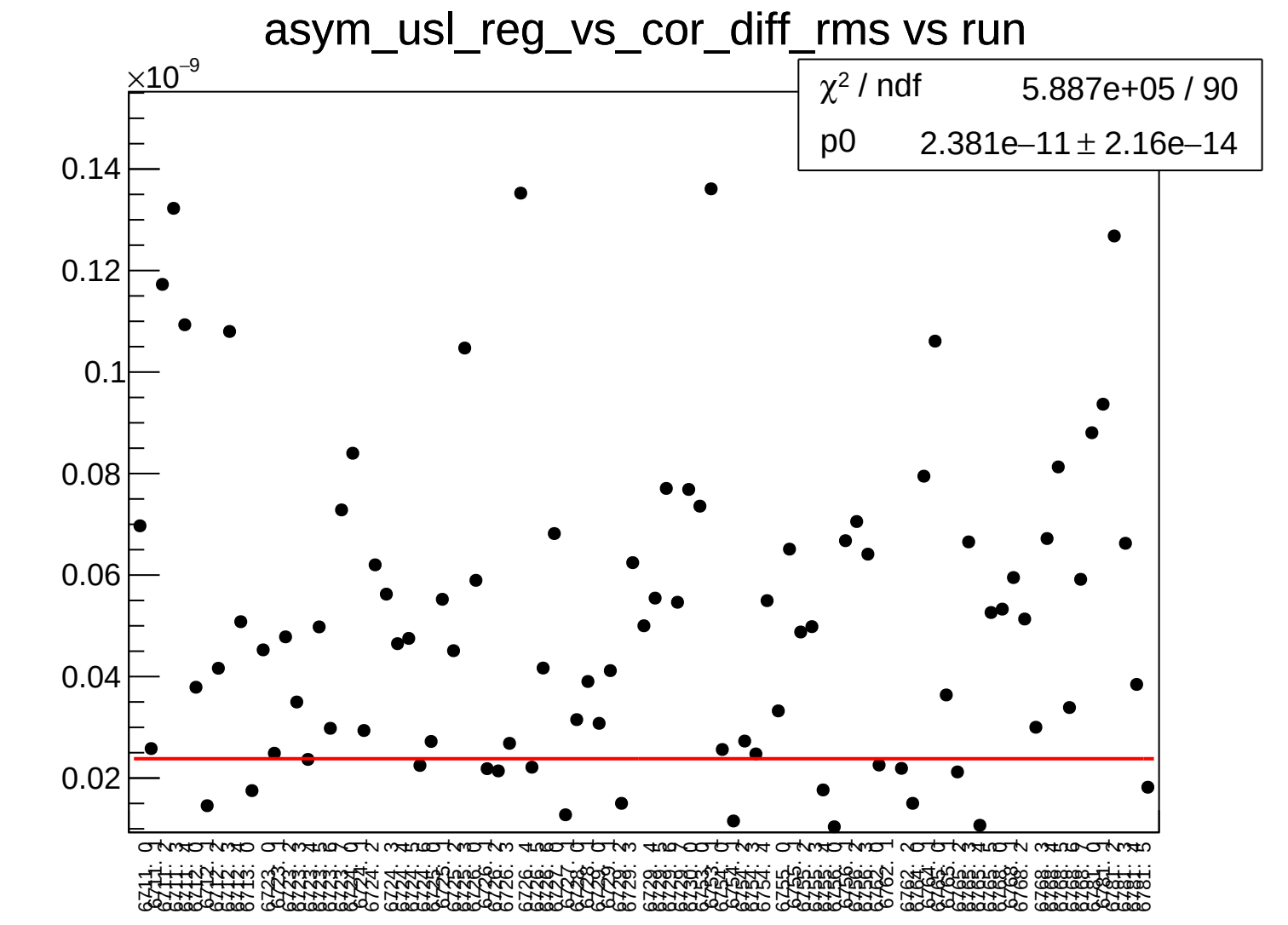

asym_usl_mean vs run
χ² / ndf 104.4 / 90
p0 −1174 ± 1756
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −288
Std Dev 0
2
1
0
−1
−2

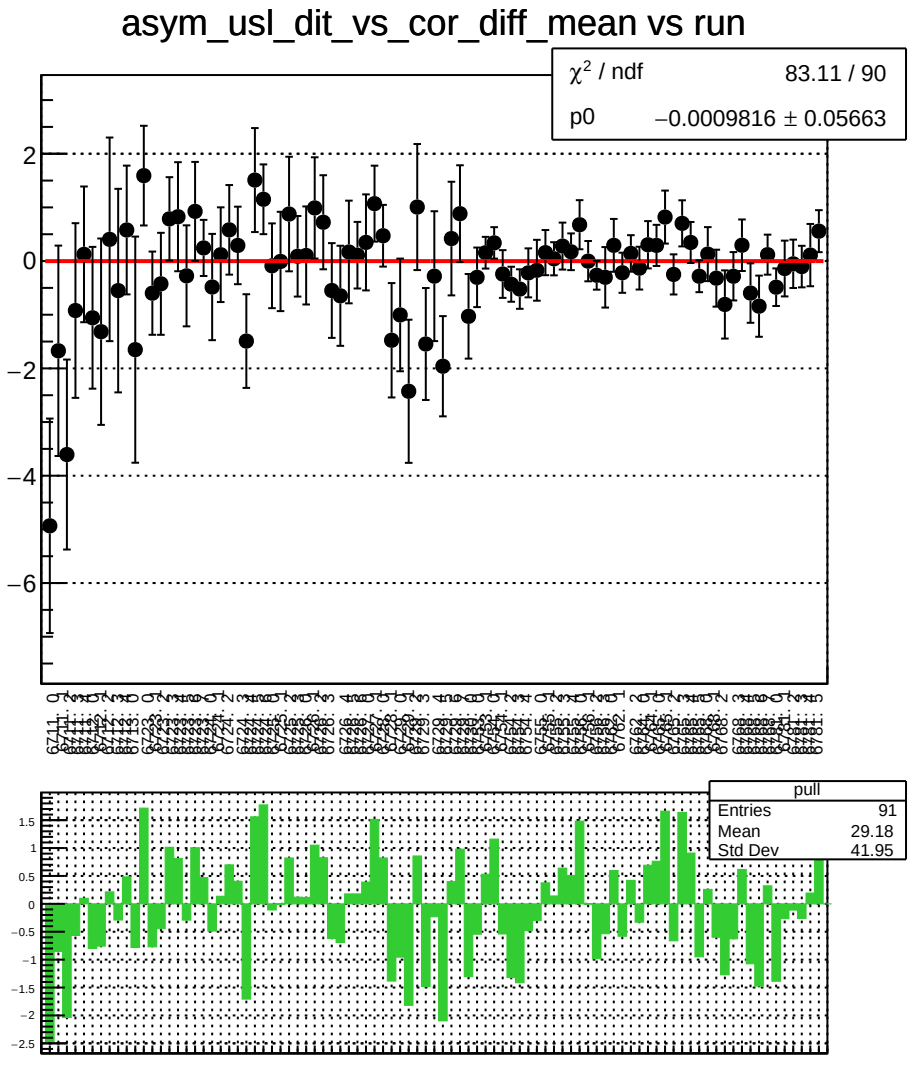

pull1D
Entries 91
Mean 0.01723
Std Dev 1.071
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

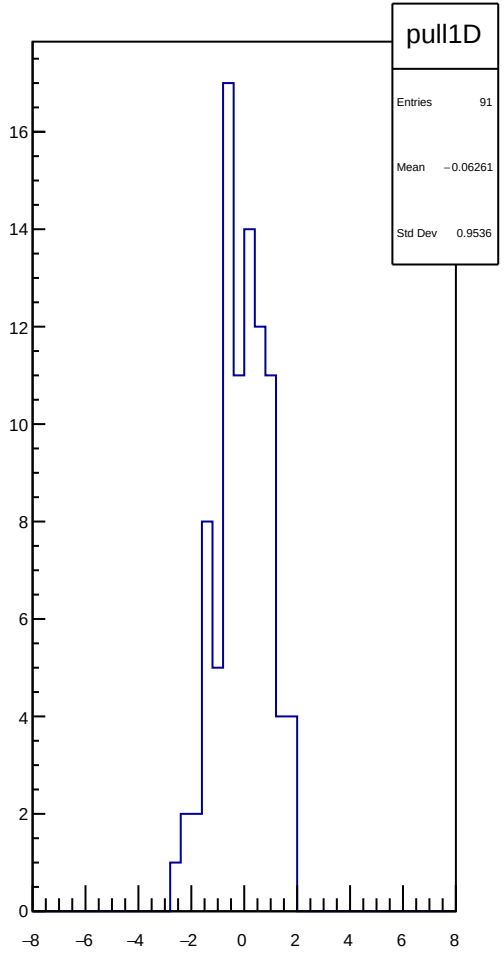

asym_usl_rms vs run
χ² / ndf 2825 / 90
p0 1667 ± 1.242
1850
1800
1750
1700
1650
1600
1550
1500

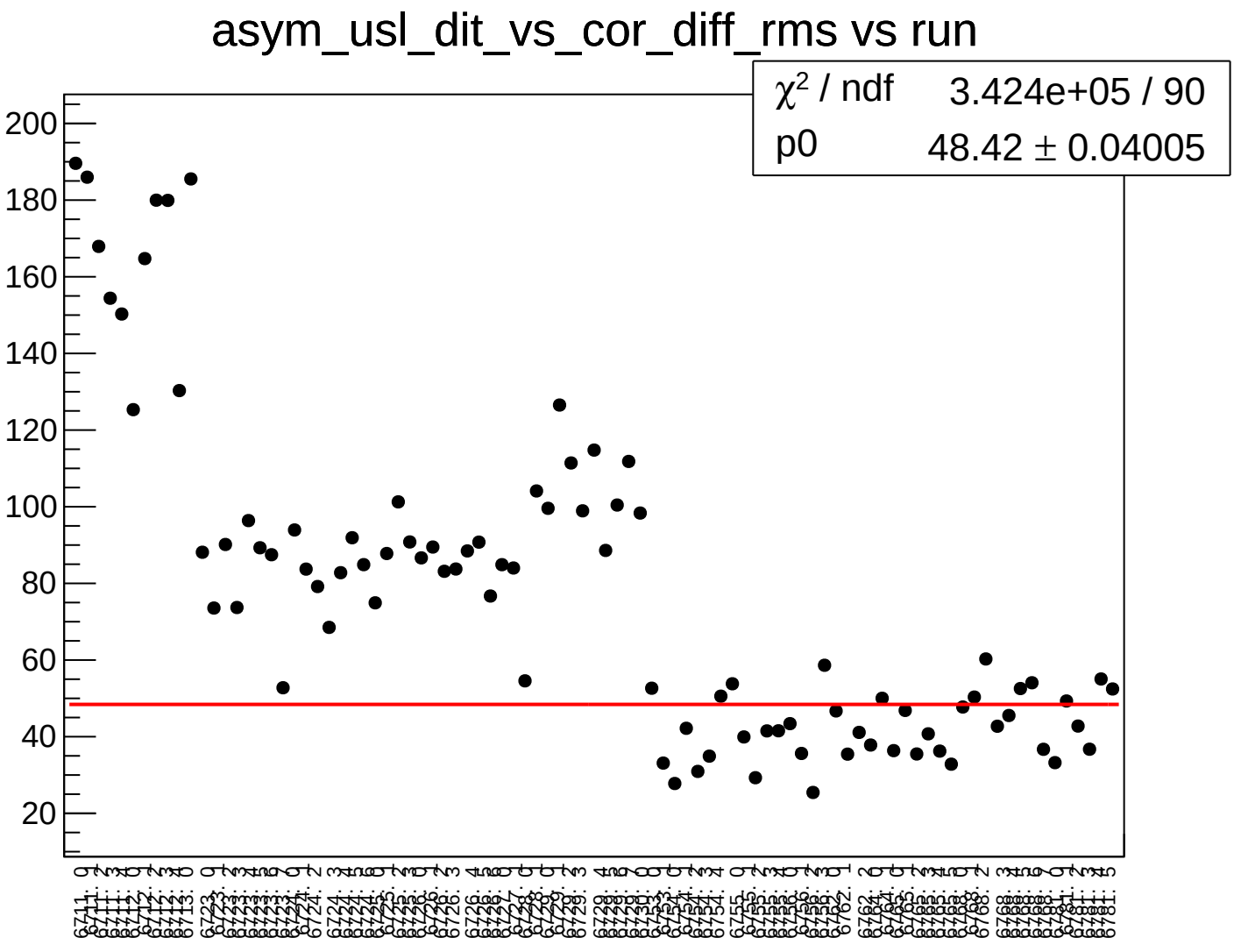

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.74 / 90
p0 −7.279e−15 ± 3.055e−14
pull
Entries 91
Mean −9255
Std Dev 0

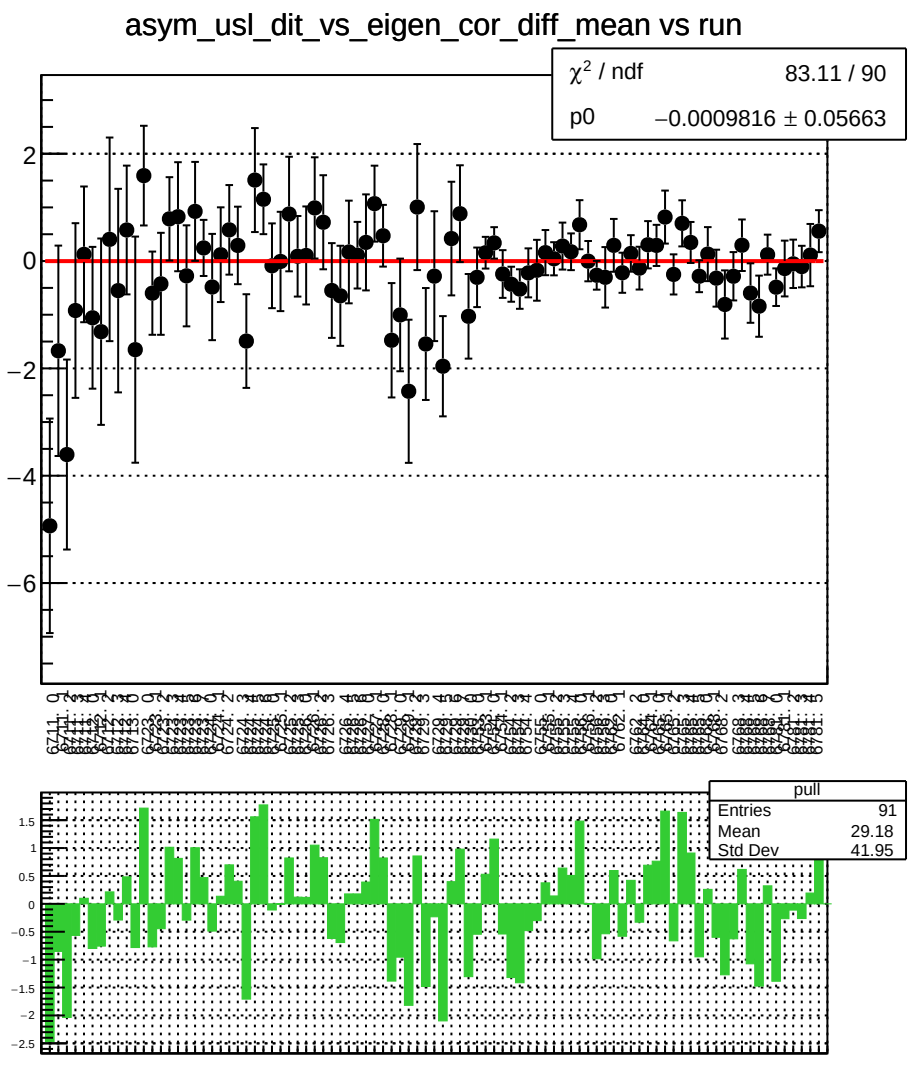

pull1D
Entries 91
Mean 0.0002173
Std Dev 0.9002

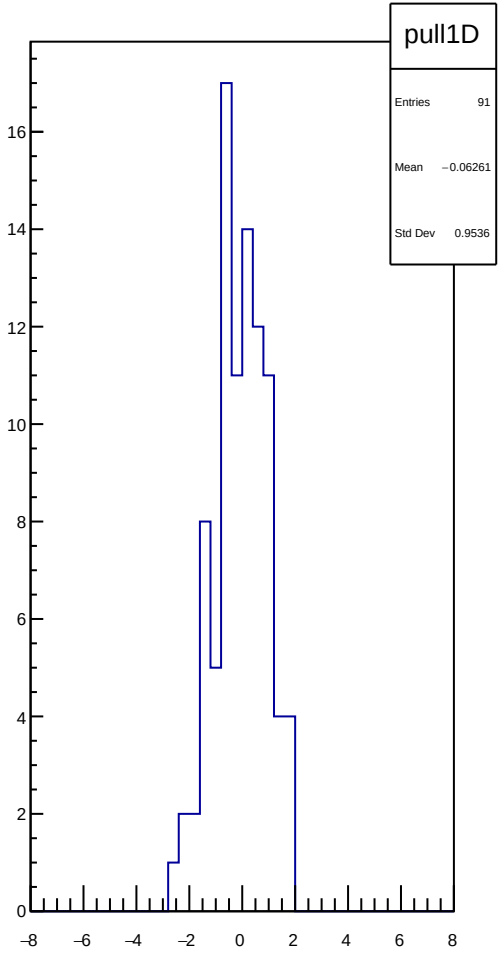

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.887e+05 / 90
p0 2.381e−11 ± 2.16e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

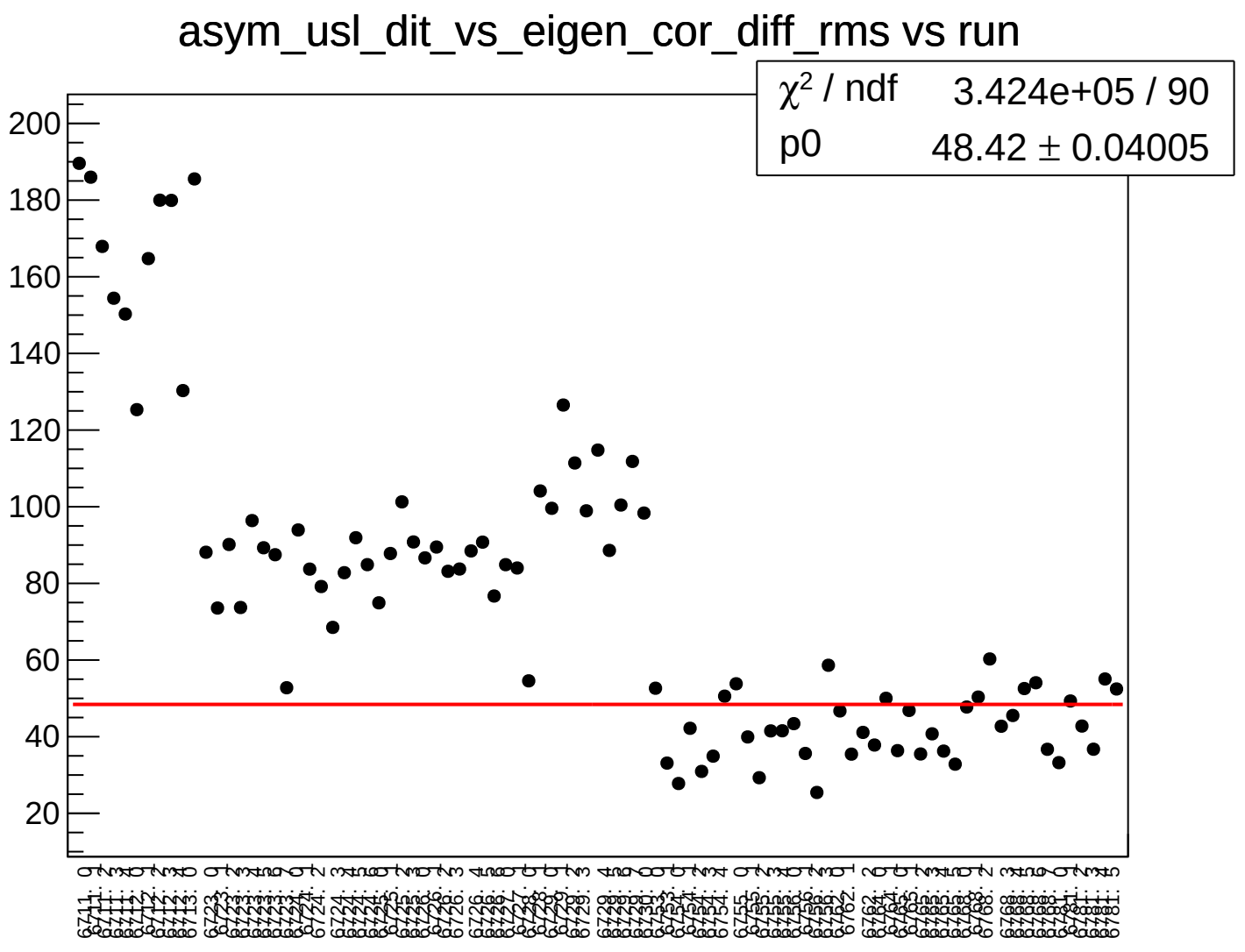

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 83.11 / 90
p0 −0.0009816 ± 0.05663
pull
Entries 91
Mean 29.18
Std Dev 41.95

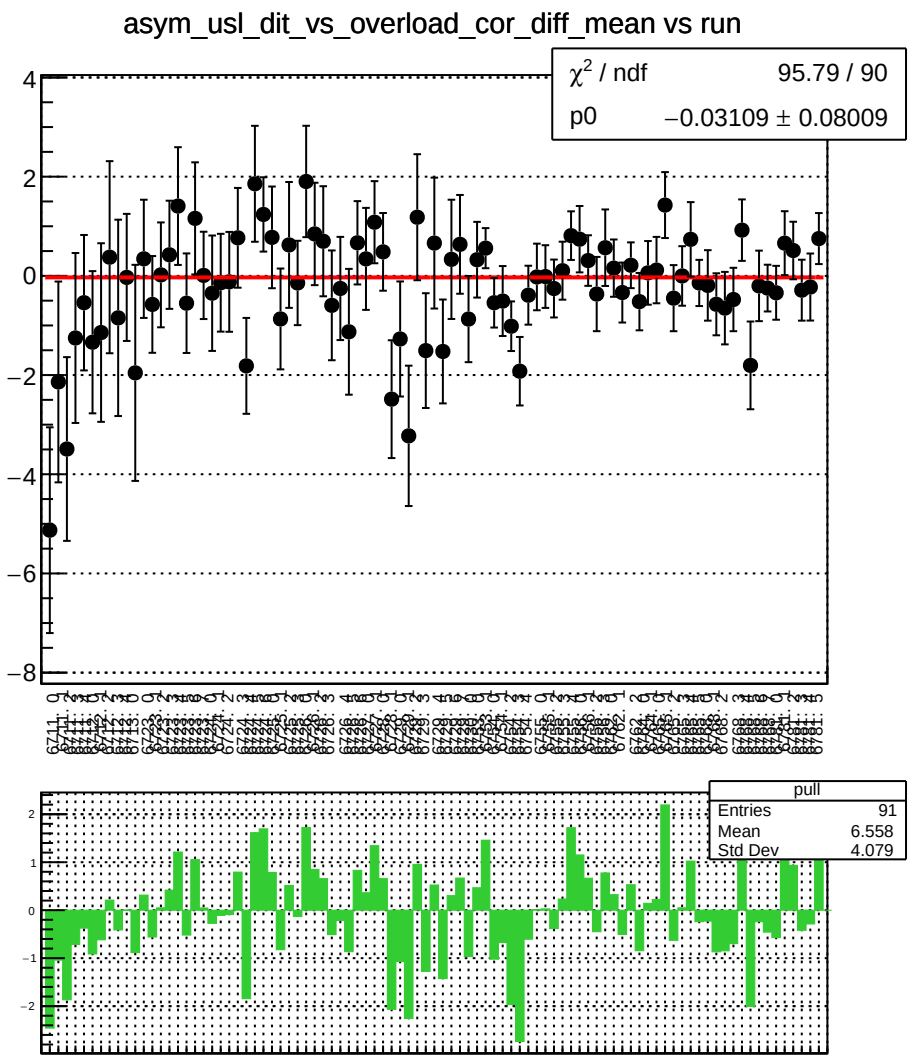

pull1D
Entries 91
Mean −0.06261
Std Dev 0.9536

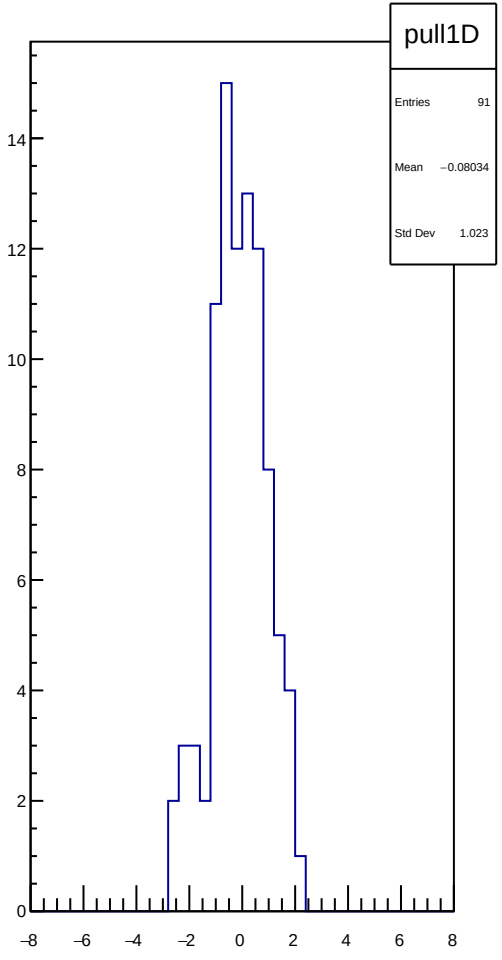

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 3.424e+05 / 90
p0 48.42 ± 0.04005
200
180
160
140
120
100
80
60
40
20

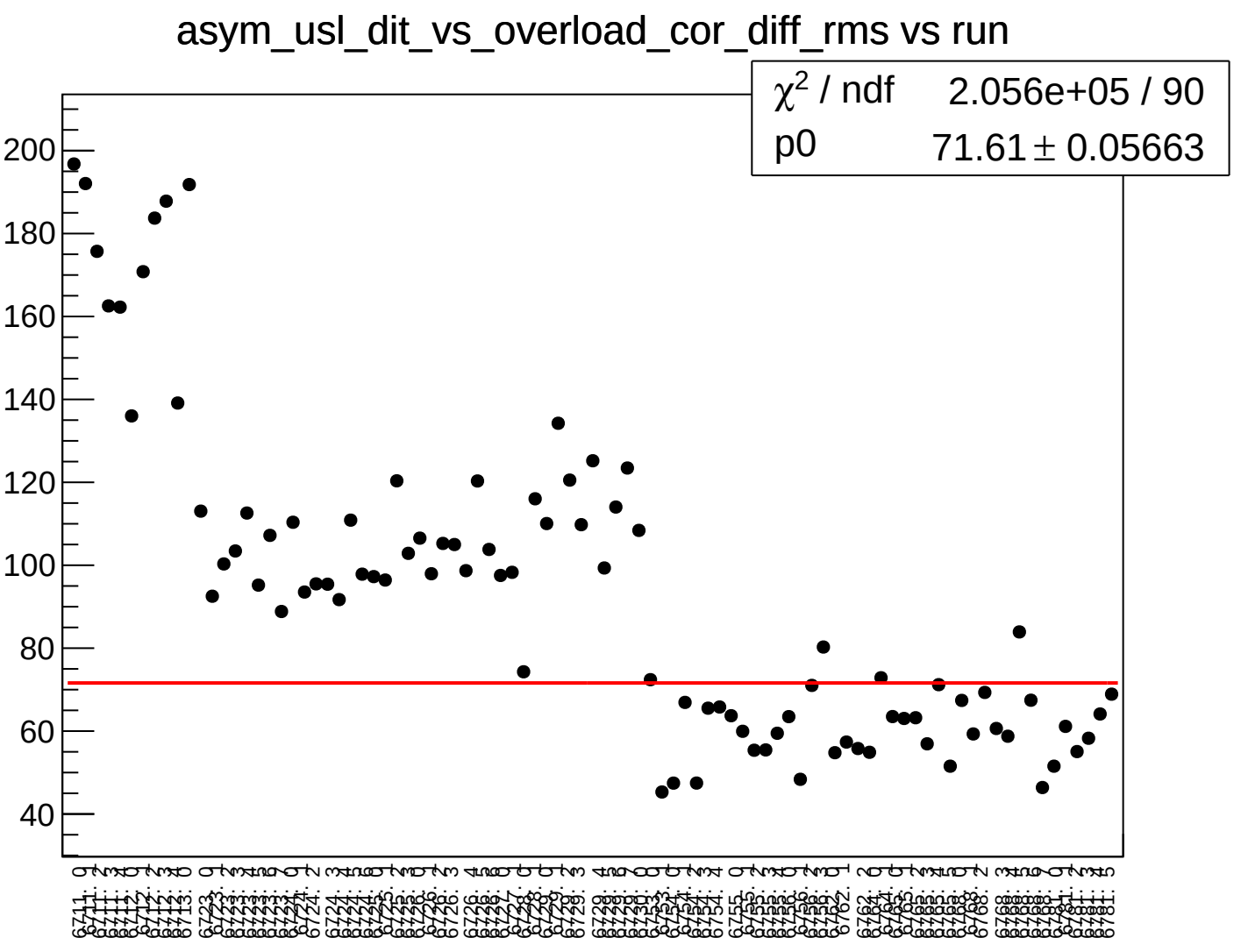

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.11 / 90
p0 −0.0009816 ± 0.05663
pull
Entries 91
Mean 29.18
Std Dev 41.95

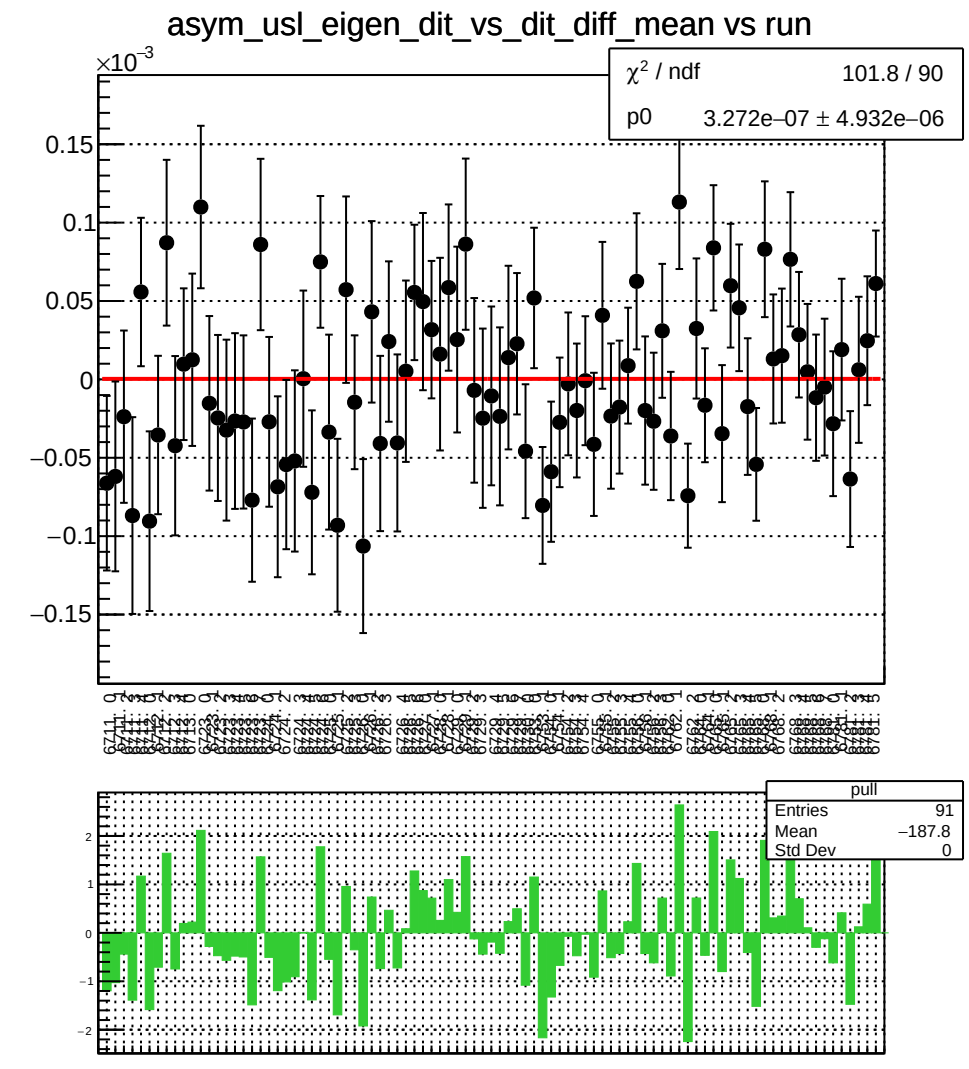

pull1D
Entries 91
Mean −0.06261
Std Dev 0.9536

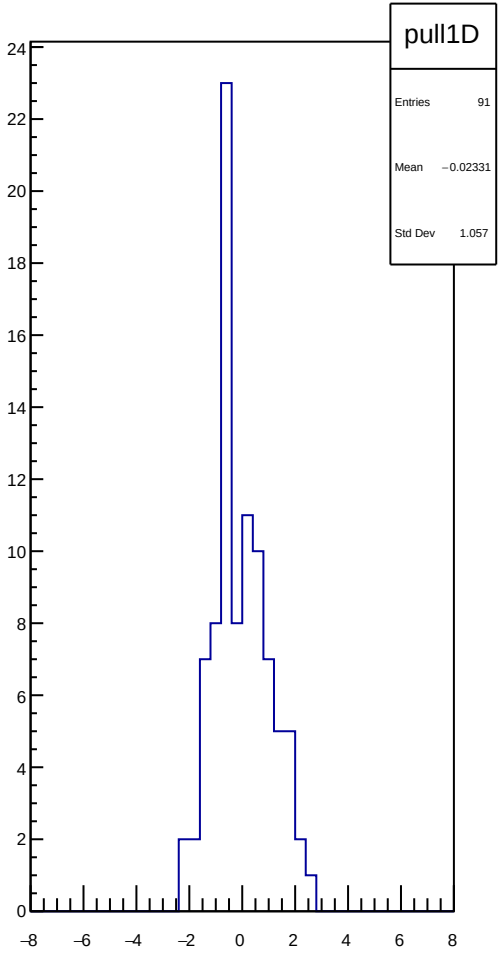

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.424e+05 / 90
p0 48.42 ± 0.04005
200
180
160
140
120
100
80
60
40
20

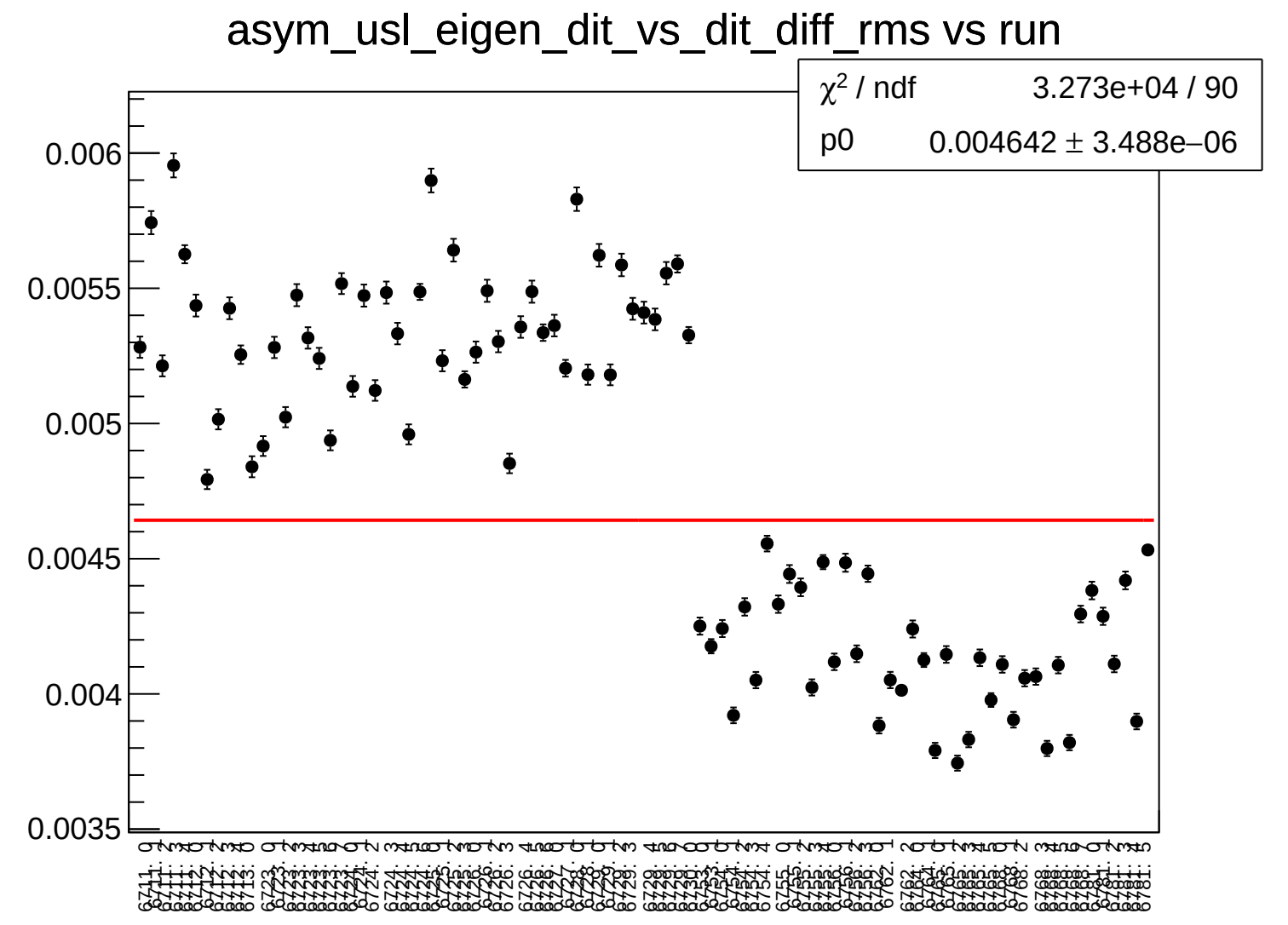

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 95.79 / 90
p0 −0.03109 ± 0.08009
pull
Entries 91
Mean 6.558
Std Dev 4.079

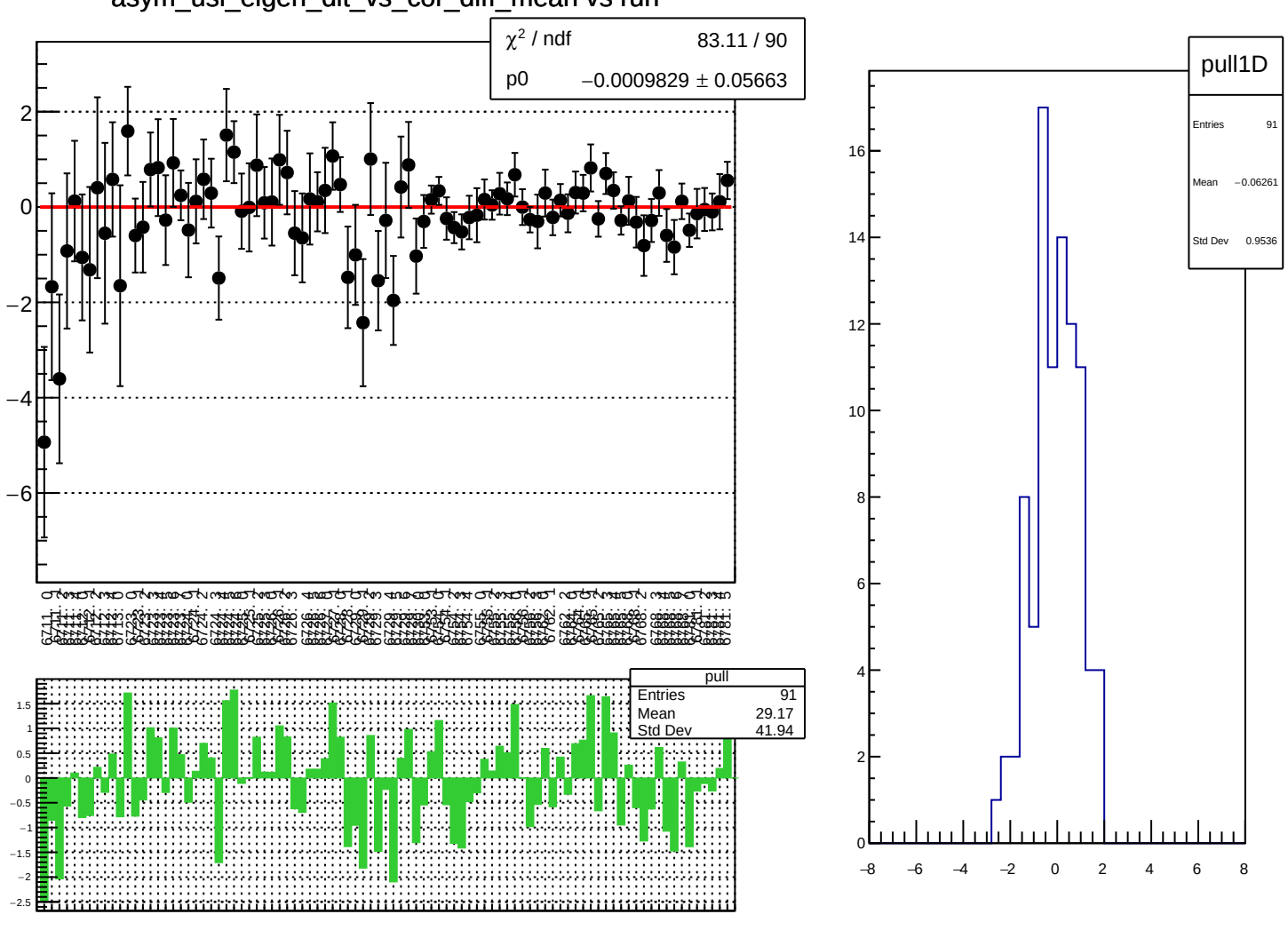

pull1D
Entries 91
Mean −0.08034
Std Dev 1.023

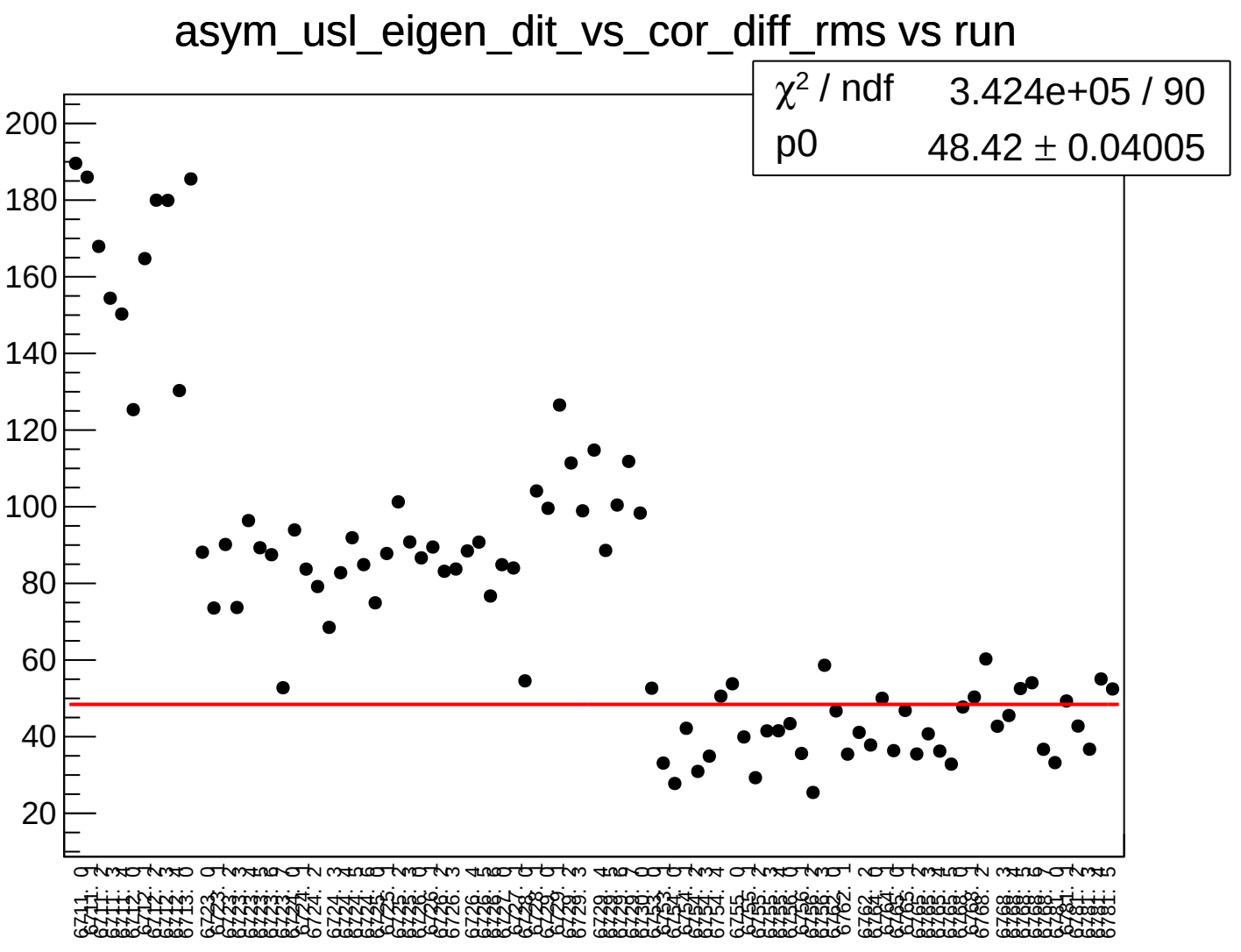

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 2.056e+05 / 90
p0 71.61 ± 0.05663
200
180
160
140
120
100
80
60
40

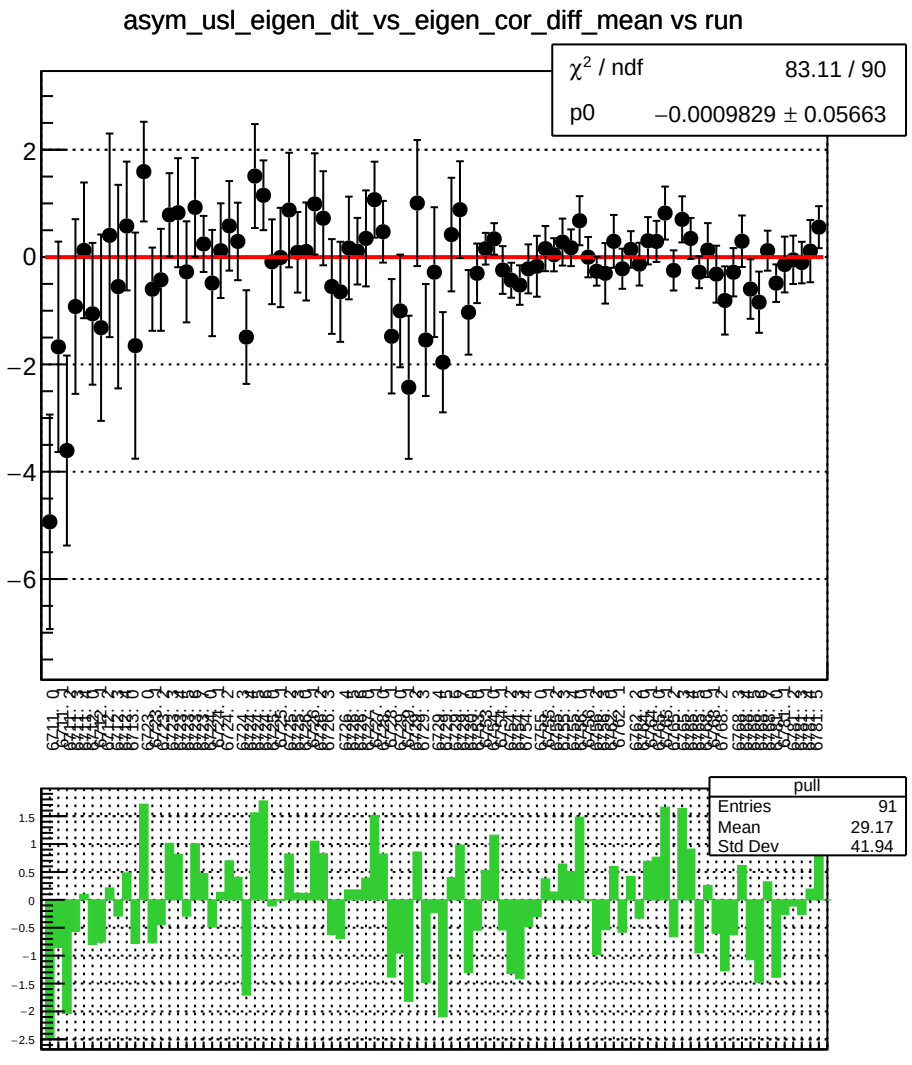

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.8 / 90
p0 3.272e−07 ± 4.932e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean −187.8
Std Dev 0
2
1
0
−1
−2

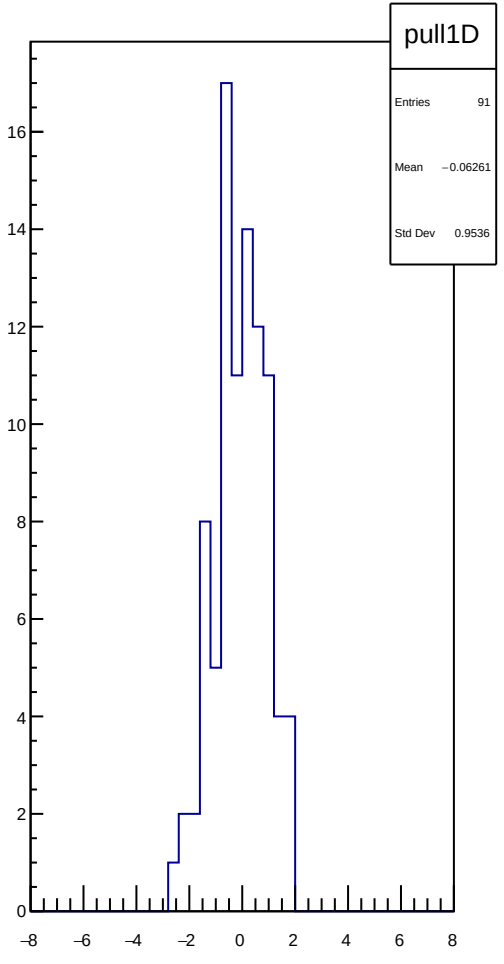

pull1D
Entries 91
Mean −0.02331
Std Dev 1.057
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

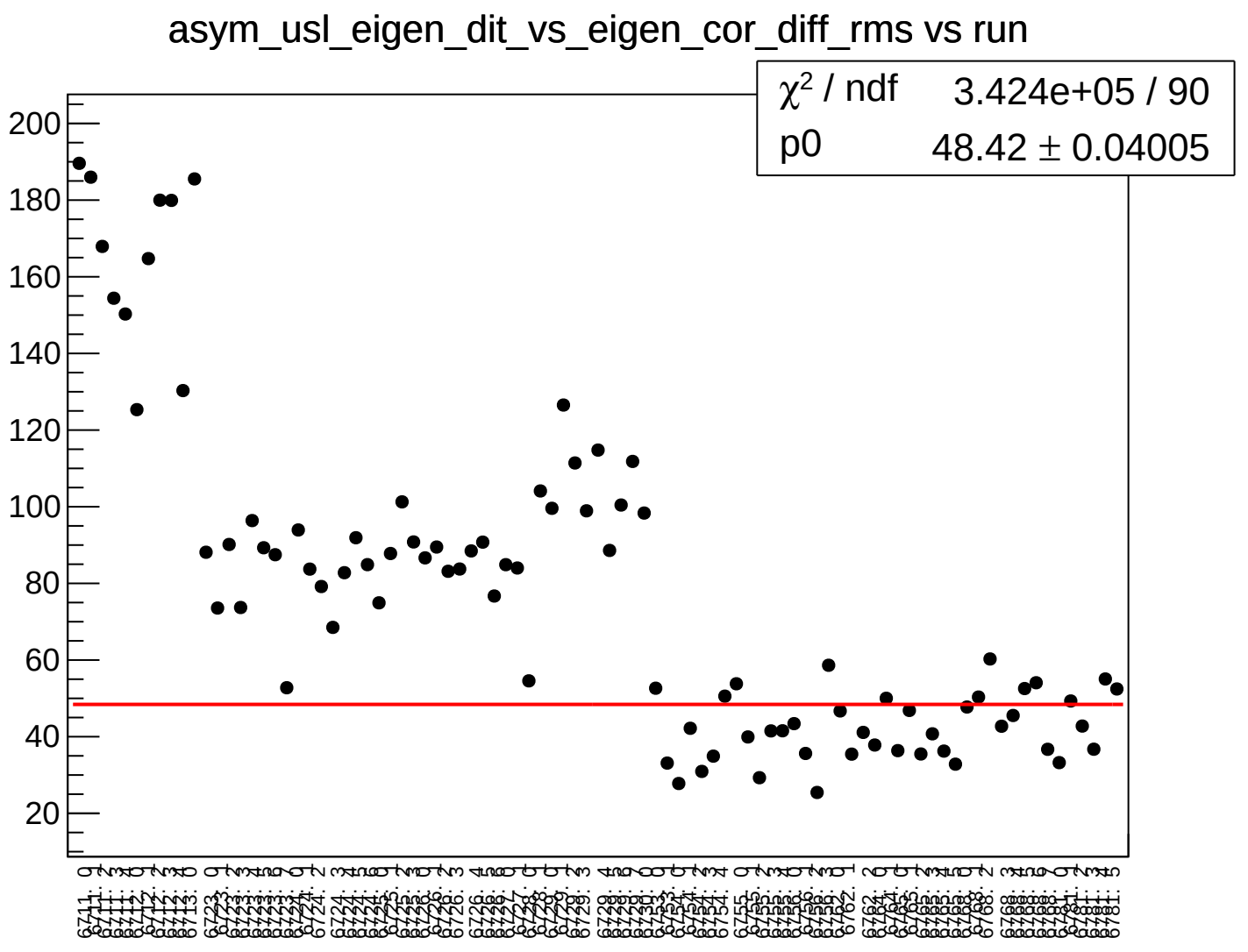

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.273e+04 / 90
p0 0.004642 ± 3.488e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035

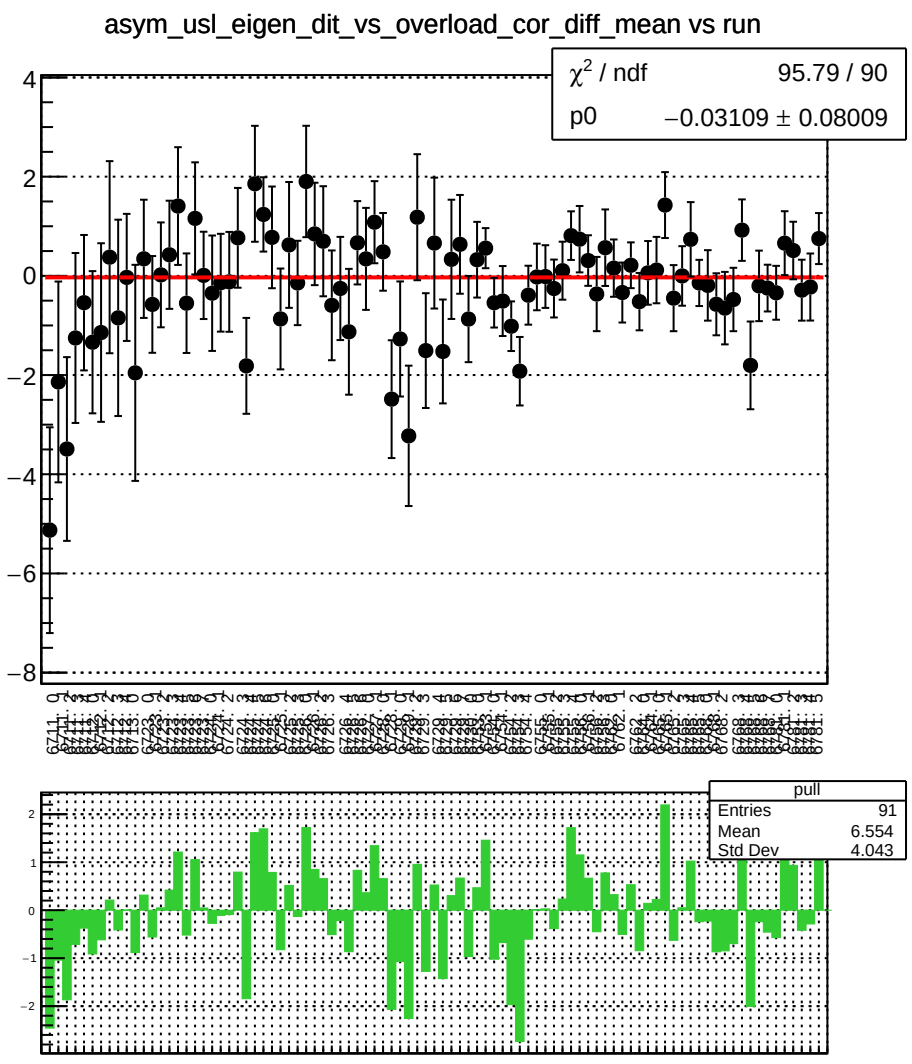

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.11 / 90
p0 −0.0009829 ± 0.05663
pull
Entries 91
Mean 29.17
Std Dev 41.94
pull1D
Entries 91
Mean −0.06261
Std Dev 0.9536

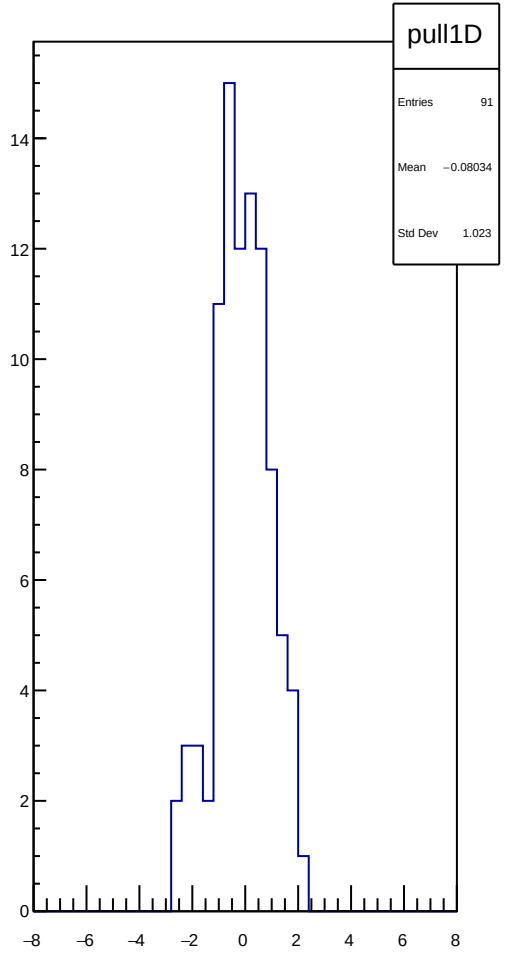

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.424e+05 / 90
p0 48.42 ± 0.04005
200
180
160
140
120
100
80
60
40
20

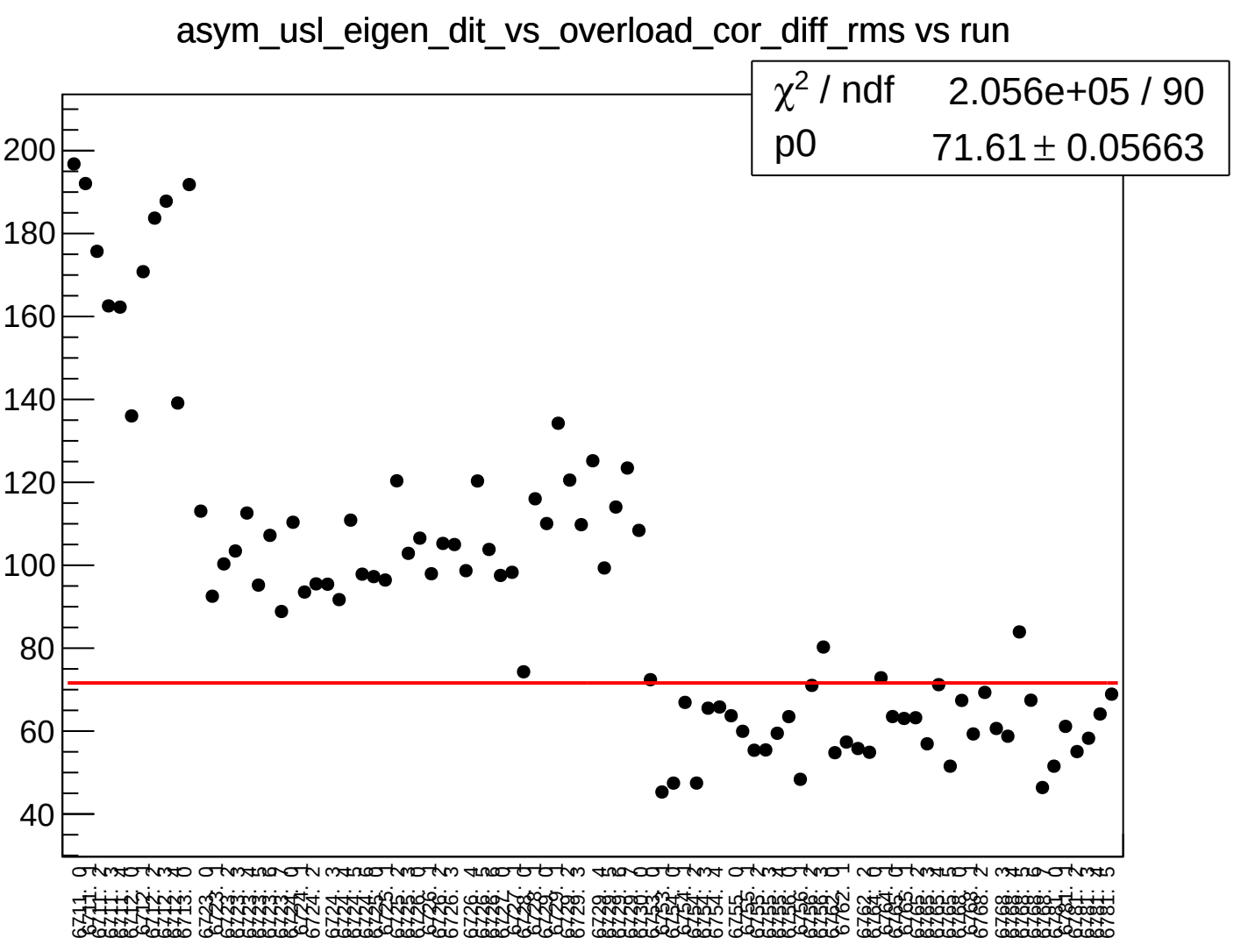

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.11 / 90
p0 −0.0009829 ± 0.05663
pull
Entries 91
Mean 29.17
Std Dev 41.94

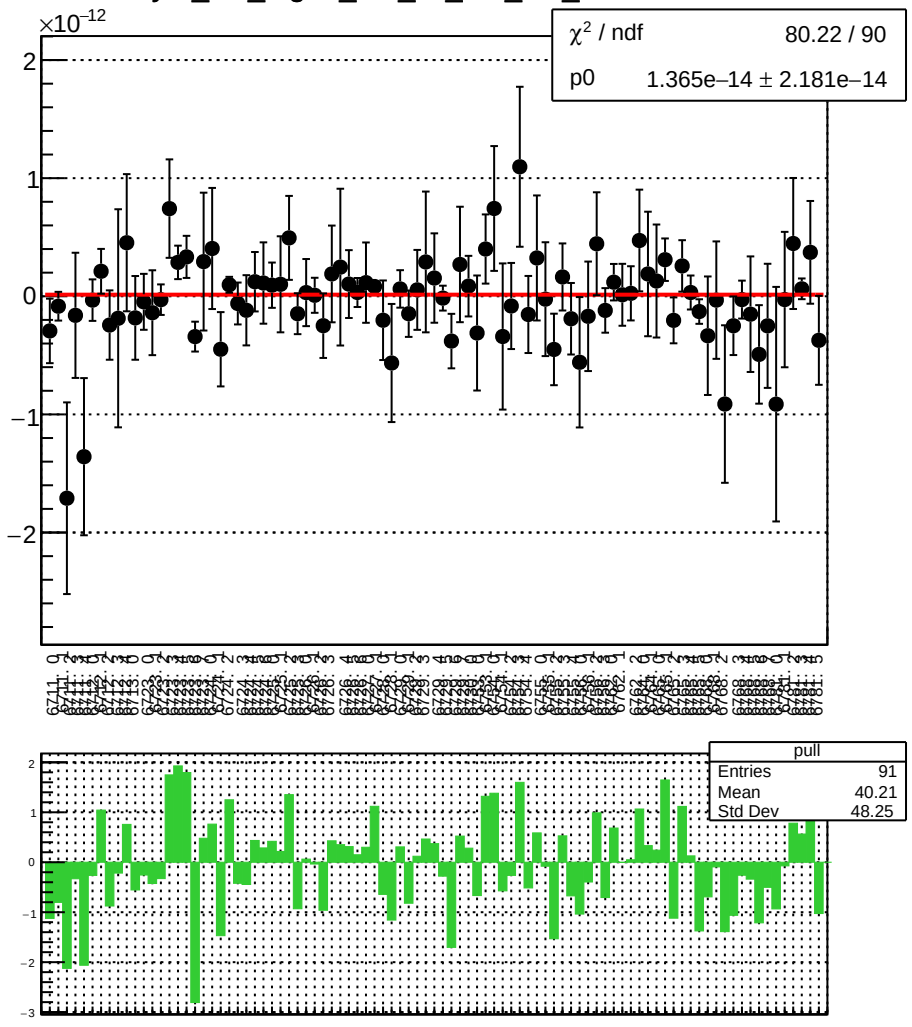

pull1D
Entries 91
Mean −0.06261
Std Dev 0.9536

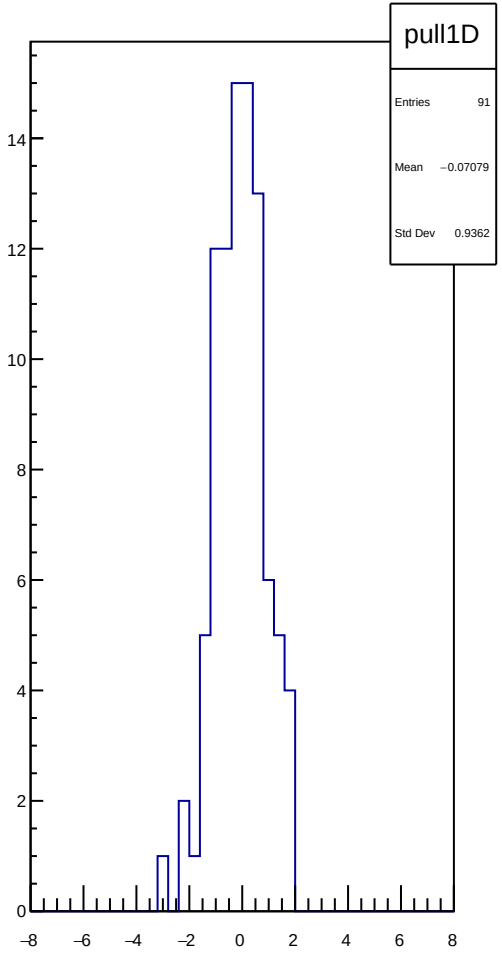

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.424e+05 / 90
p0 48.42 ± 0.04005
200
180
160
140
120
100
80
60
40
20

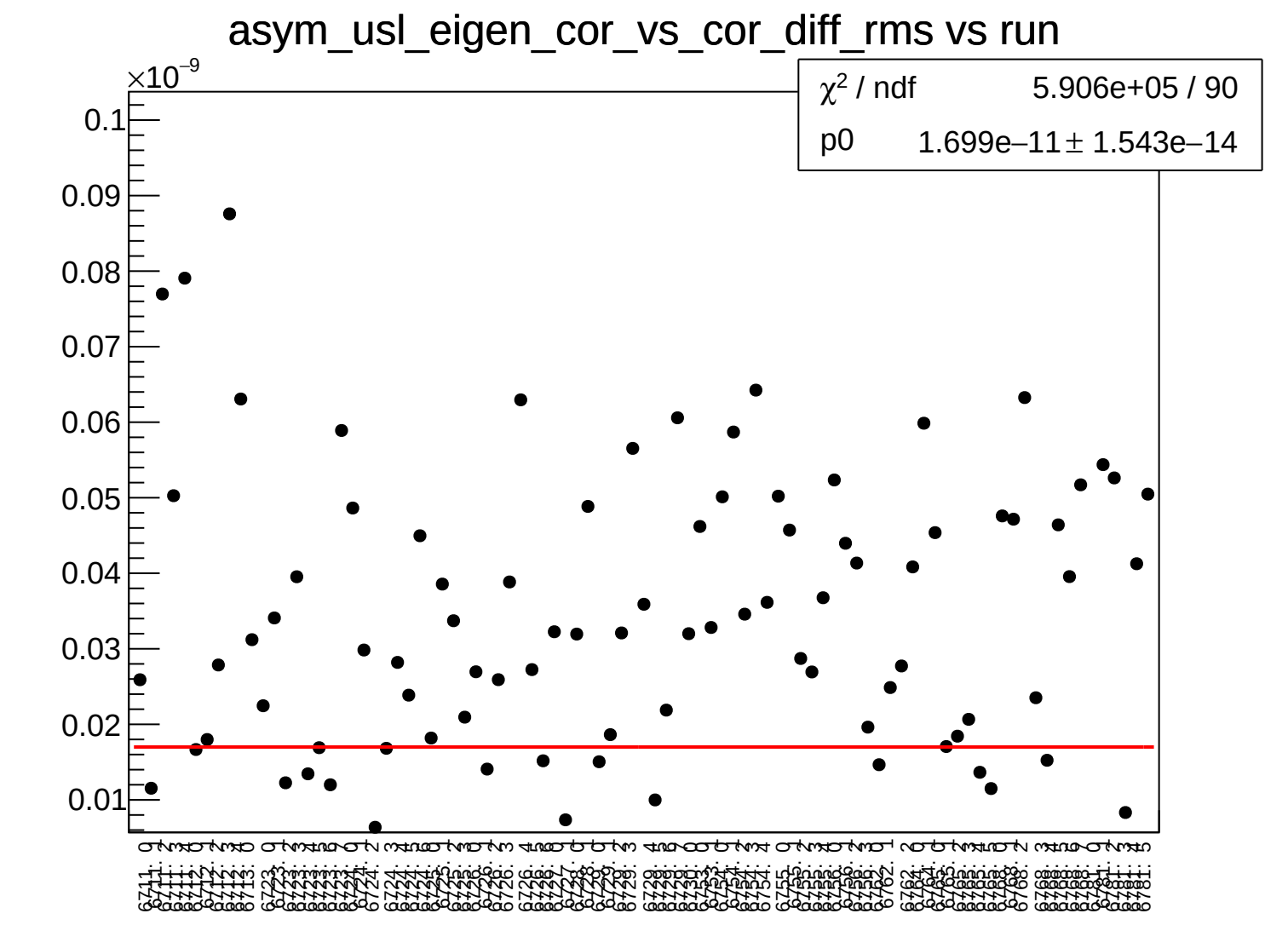

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 95.79 / 90
p0 −0.03109 ± 0.08009
pull
Entries 91
Mean 6.554
Std Dev 4.043

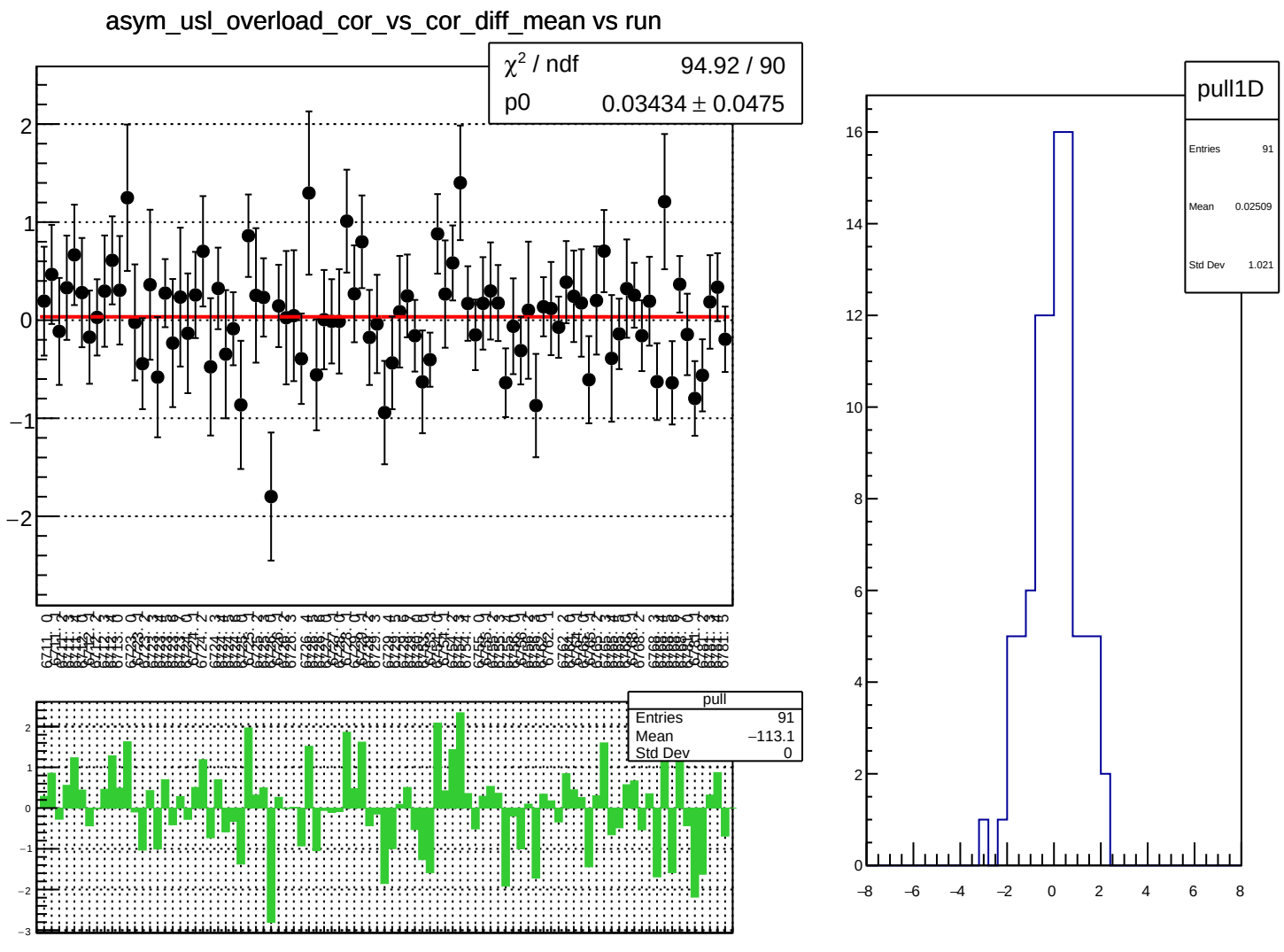

pull1D
Entries 91
Mean −0.08034
Std Dev 1.023

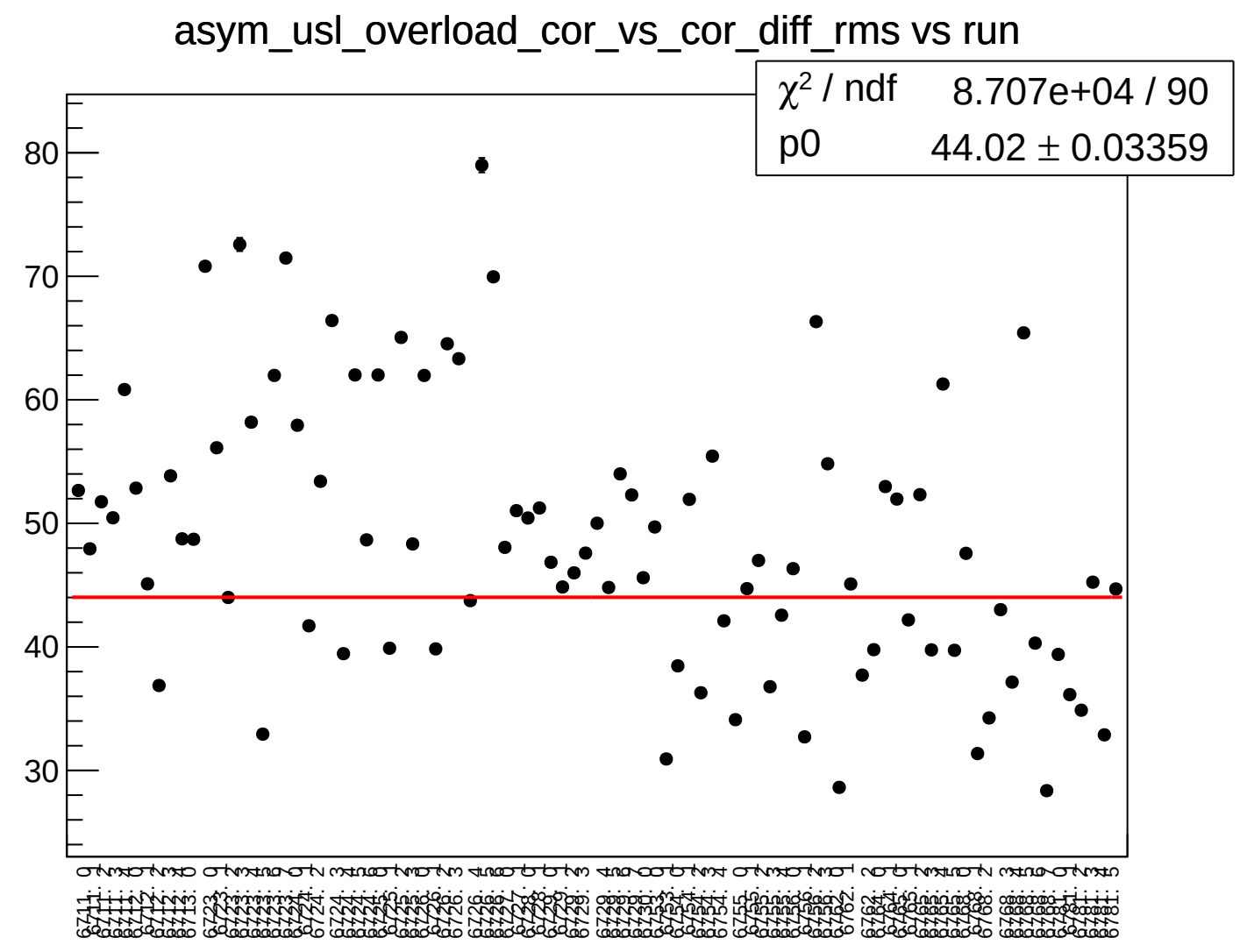

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.056e+05 / 90
p0 71.61 ± 0.05663
200
180
160
140
120
100
80
60
40

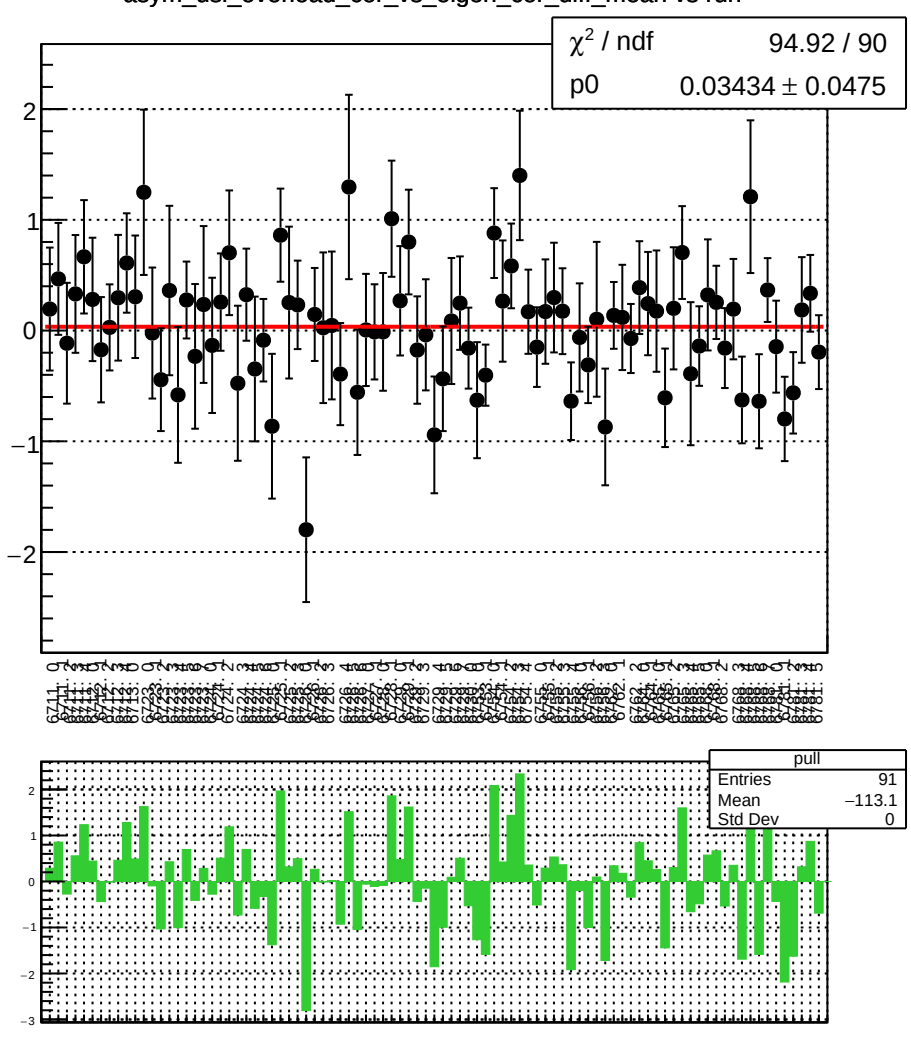

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.22 / 90
p0 1.365e−14 ± 2.181e−14
pull
Entries 91
Mean 40.21
Std Dev 48.25

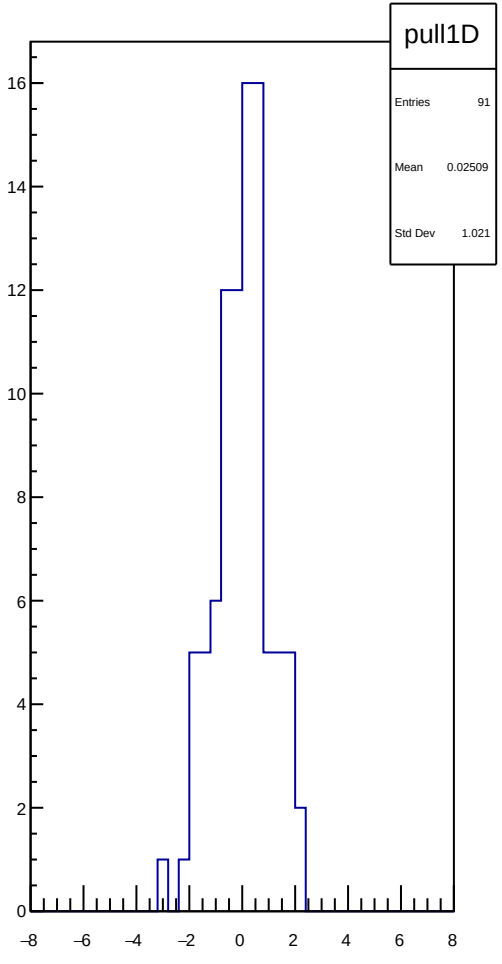

pull1D
Entries 91
Mean −0.07079
Std Dev 0.9362

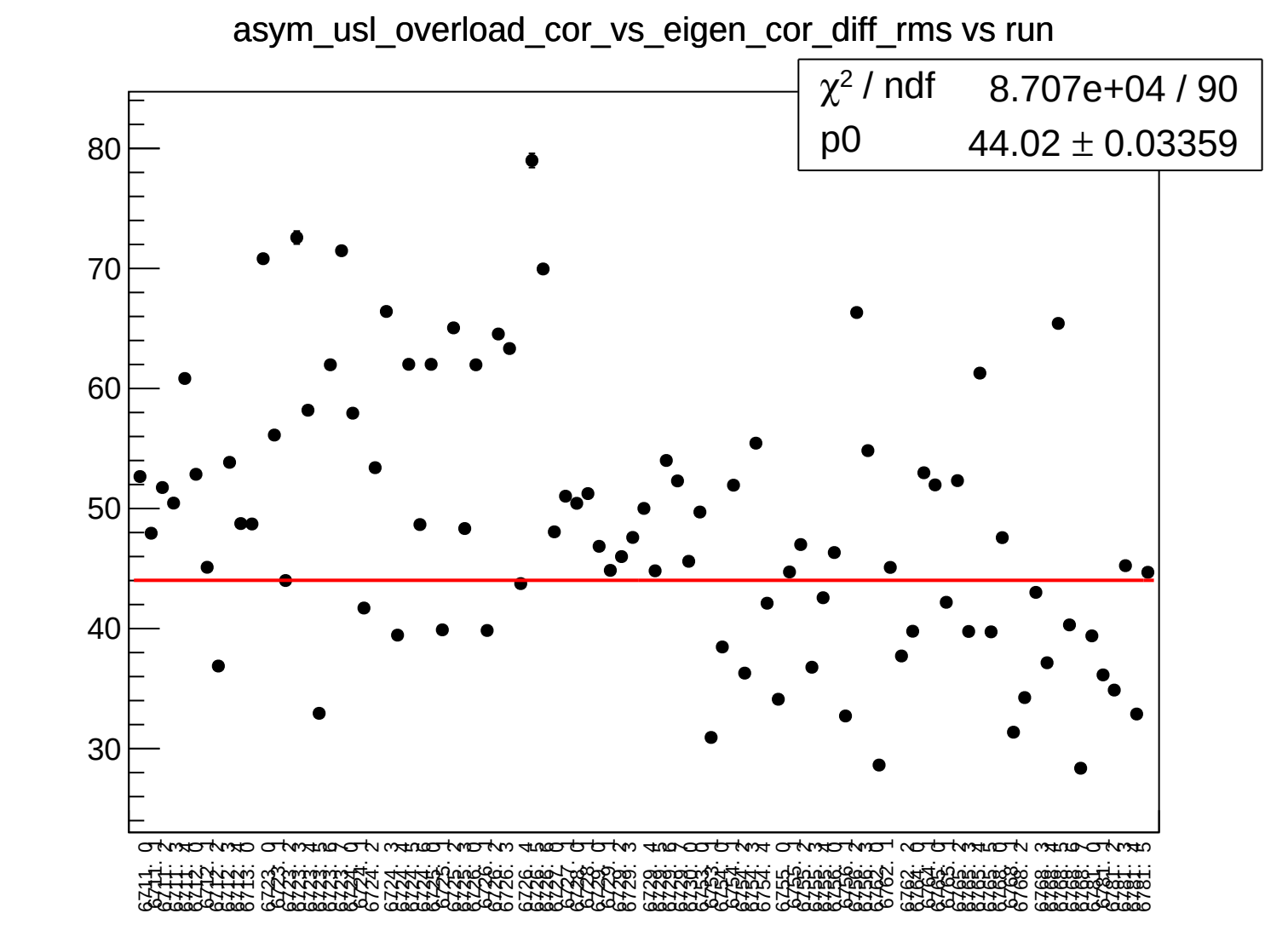

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.906e+05 / 90
p0 1.699e−11 ± 1.543e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

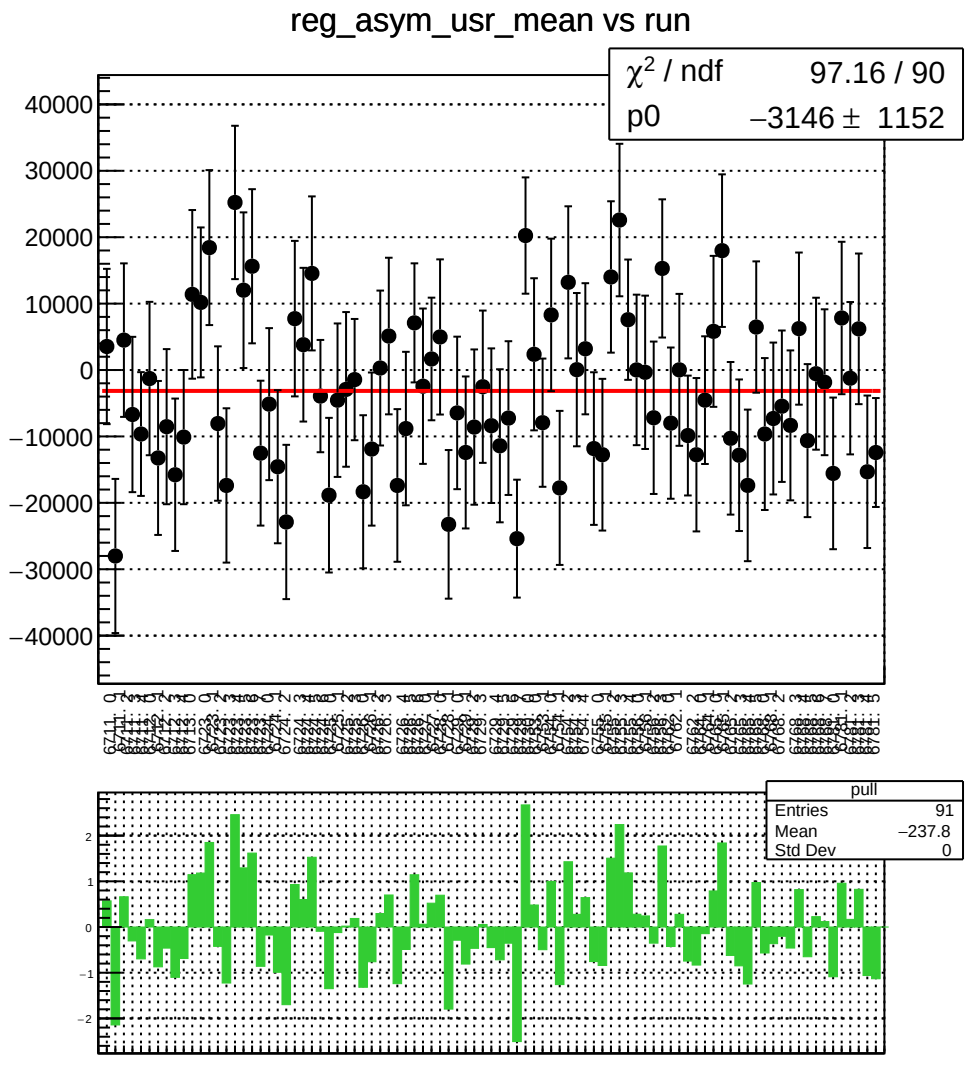

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 94.92 / 90
p0 0.03434 ± 0.0475
pull
Entries 91
Mean −113.1
Std Dev 0
pull1D
Entries 91
Mean 0.02509
Std Dev 1.021

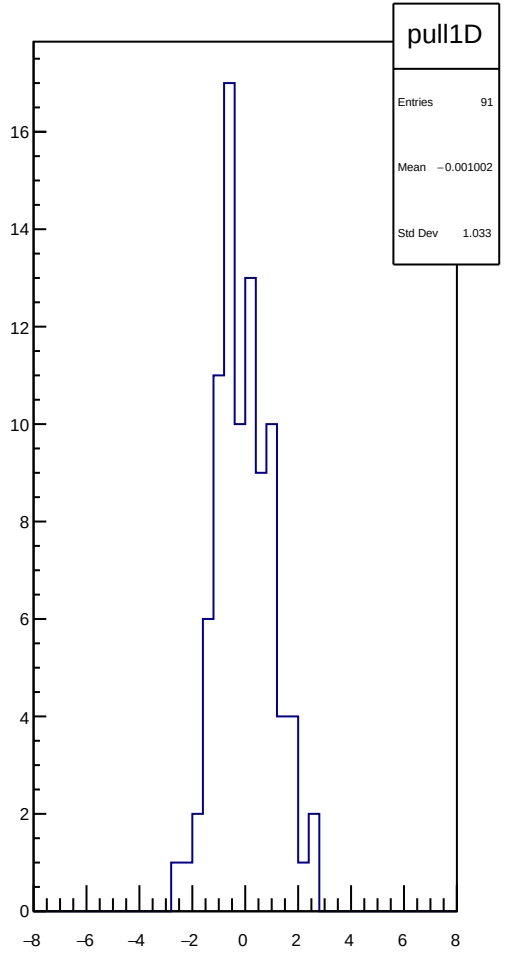

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 8.707e+04 / 90
p0 44.02 ± 0.03359
80
70
60
50
40
30

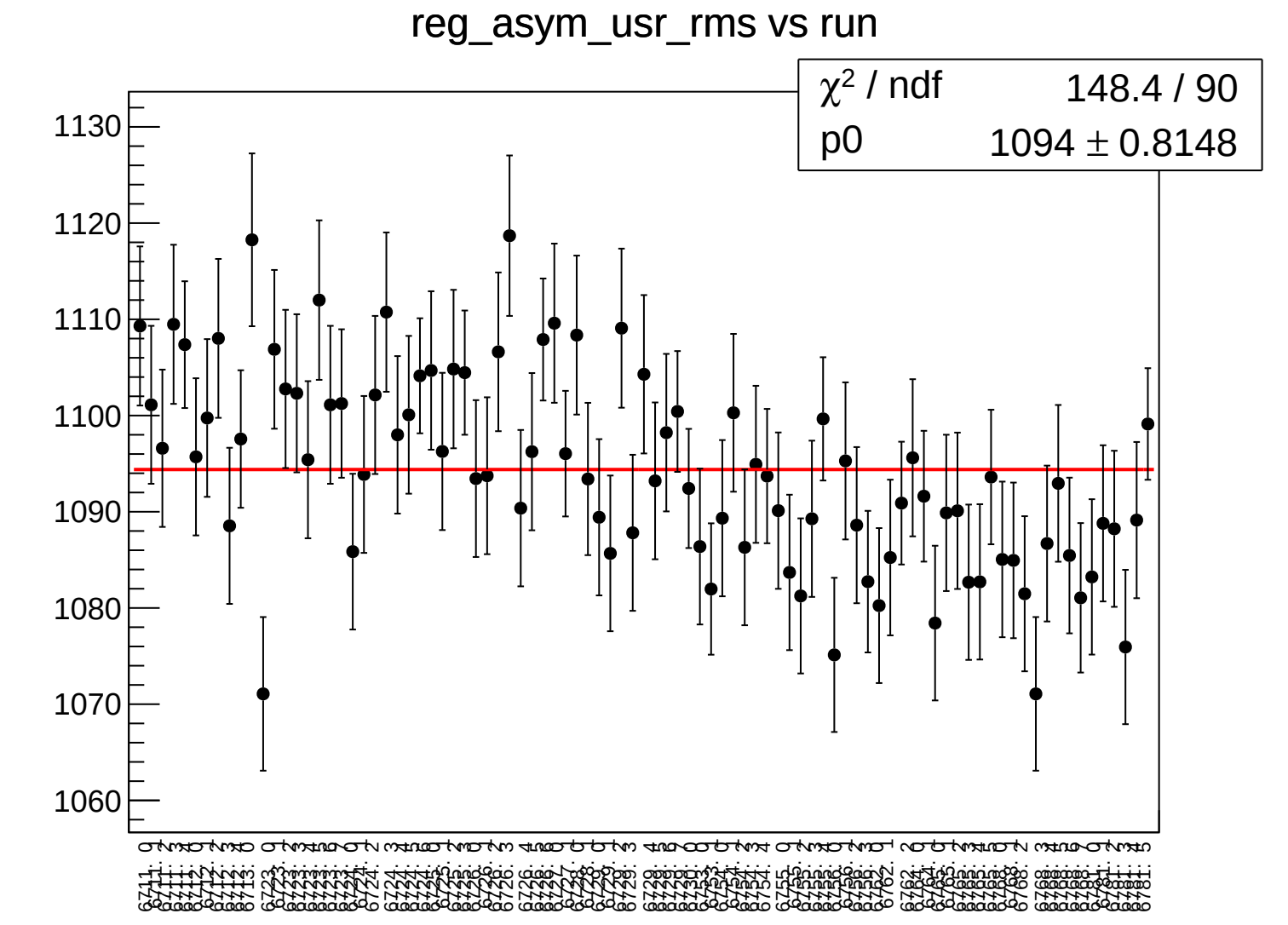

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.92 / 90
p0 0.03434 ± 0.0475
pull
Entries 91
Mean −113.1
Std Dev 0

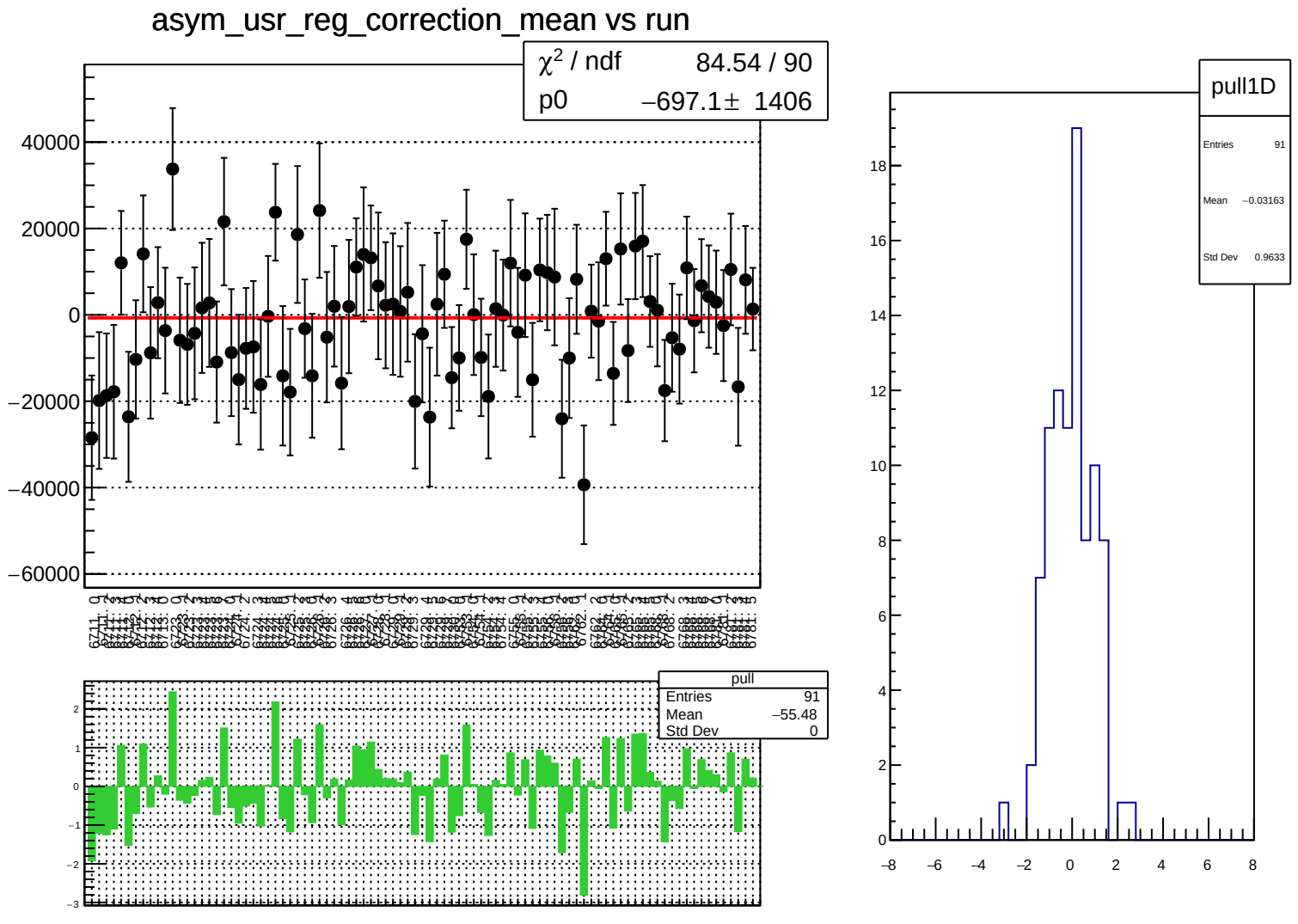

pull1D
Entries 91
Mean 0.02509
Std Dev 1.021

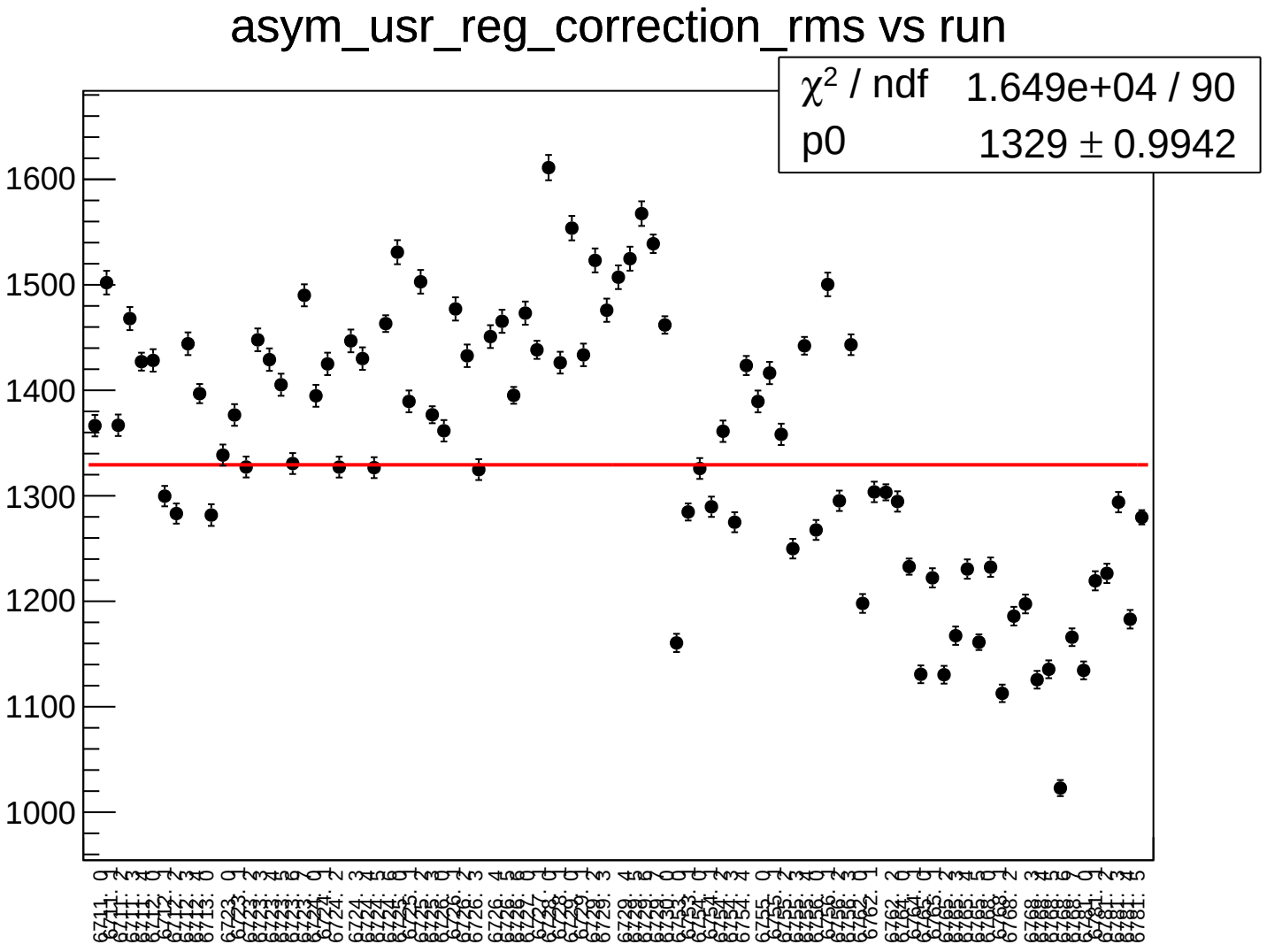

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.707e+04 / 90
p0 44.02 ± 0.03359
80
70
60
50
40
30

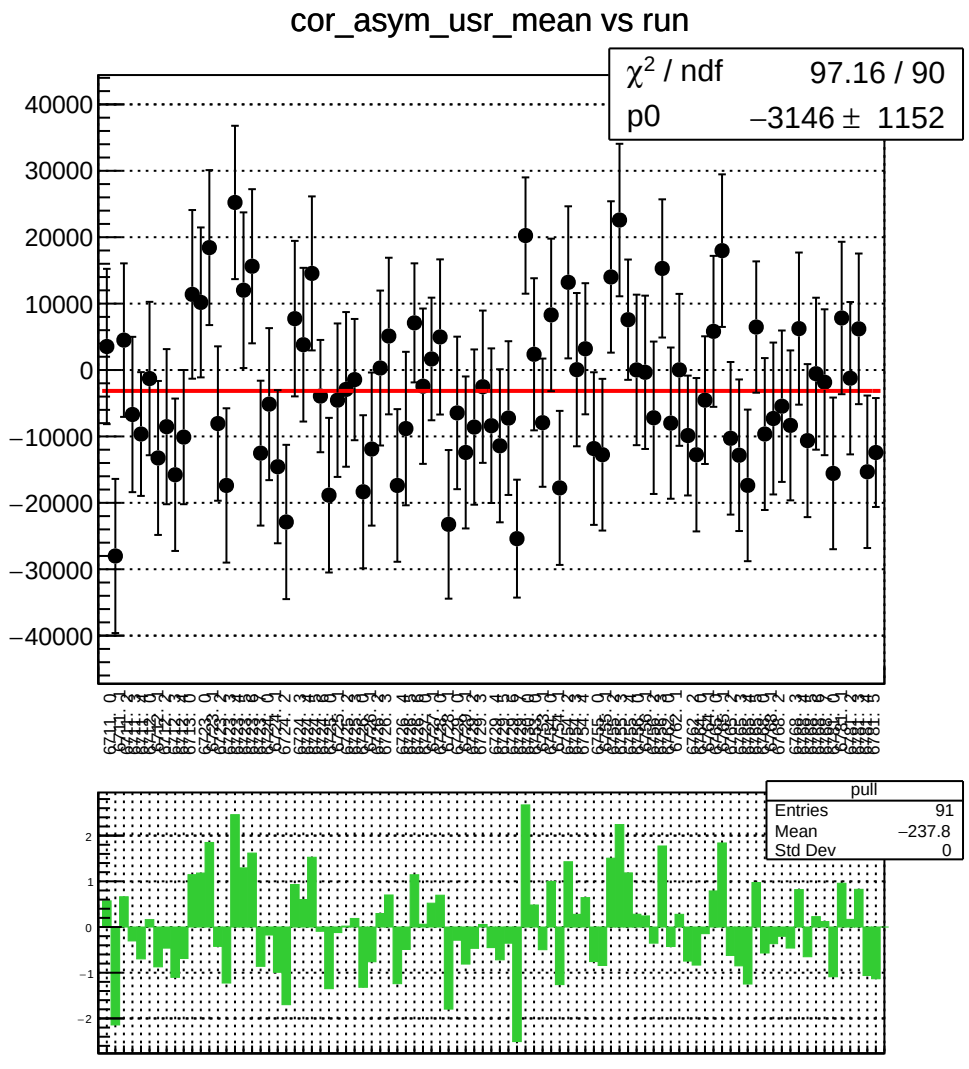

reg_asym_usr_mean vs run
χ² / ndf 97.16 / 90
p0 −3146 ± 1152
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean −237.8
Std Dev 0
2
1
0
−1
−2

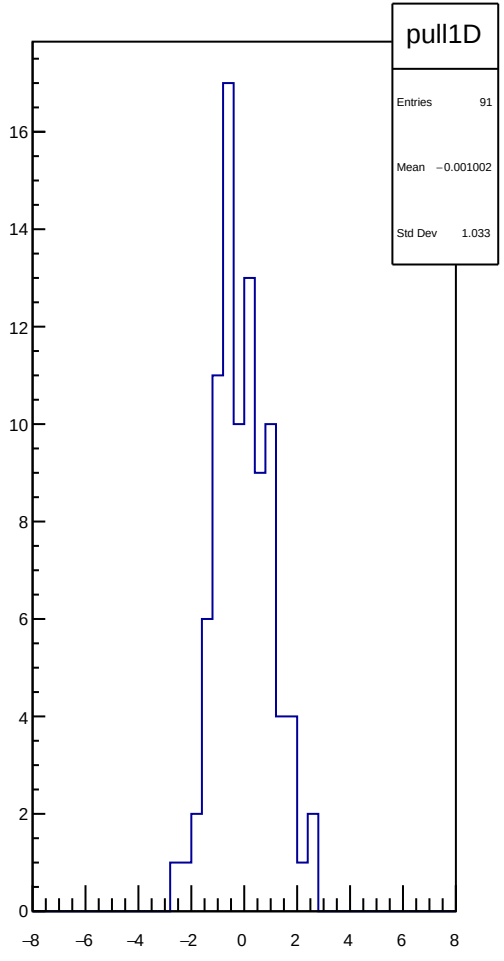

pull1D
Entries 91
Mean −0.001002
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

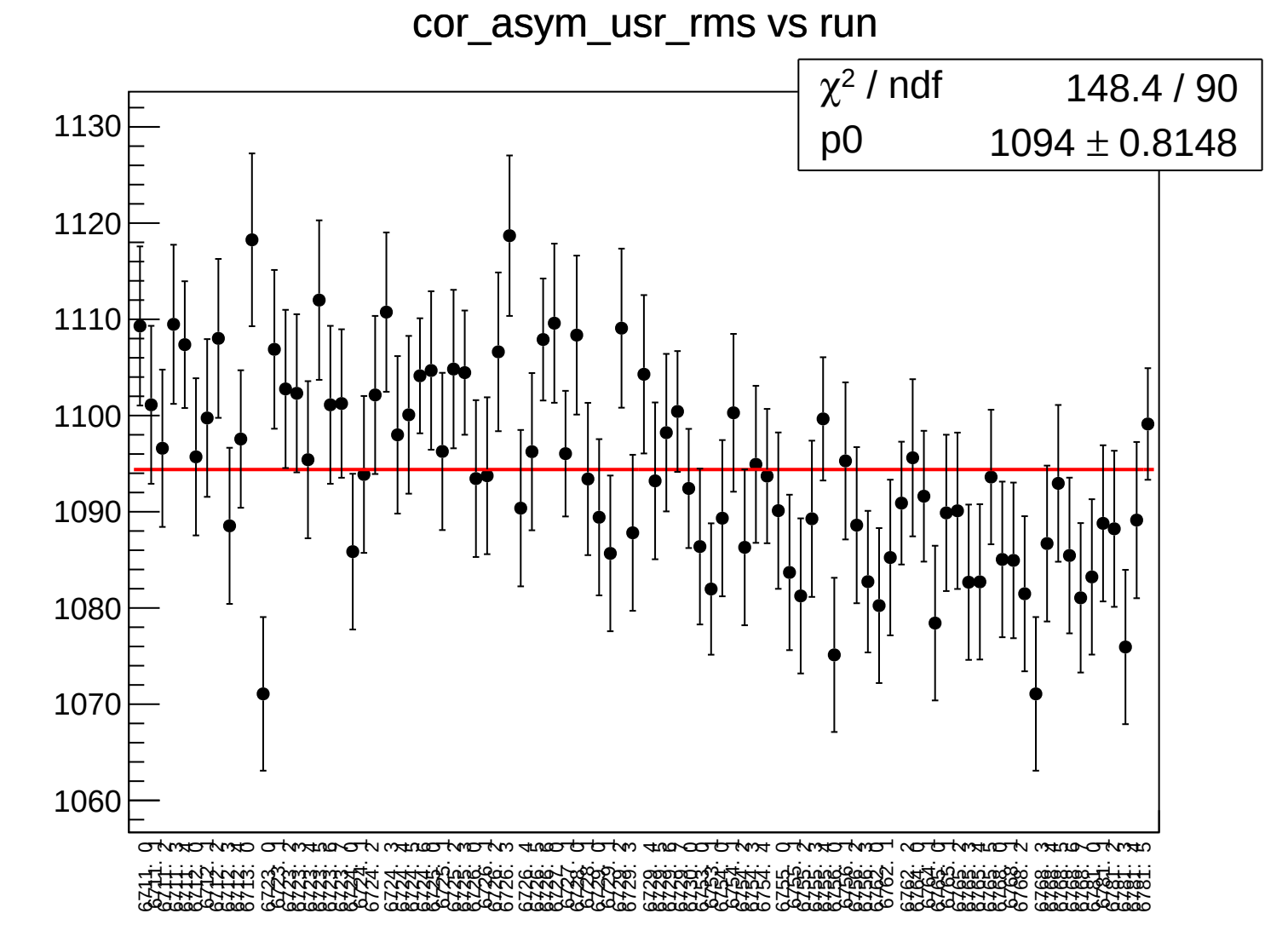

reg_asym_usr_rms vs run
χ² / ndf 148.4 / 90
p0 1094 ± 0.8148
1130
1120
1110
1100
1090
1080
1070
1060

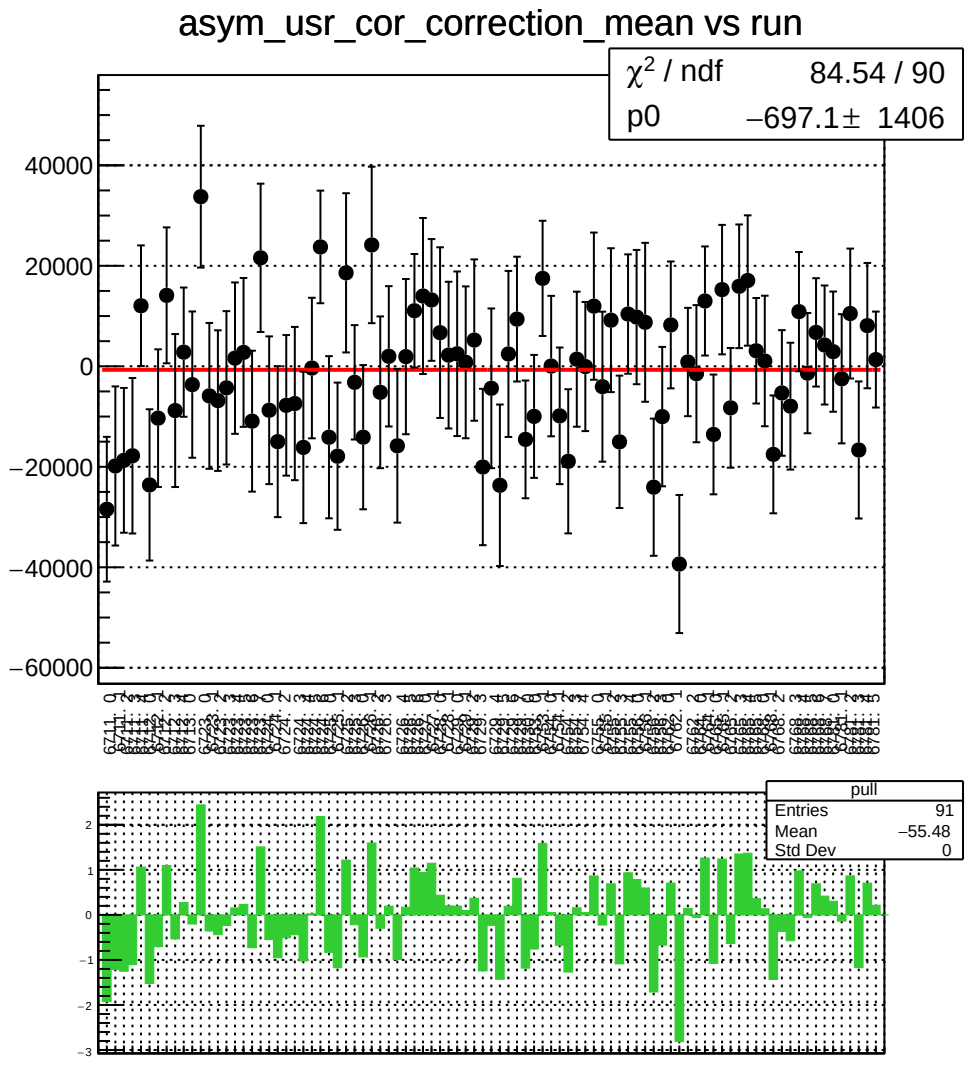

asym_usr_reg_correction_mean vs run
χ² / ndf 84.54 / 90
p0 −697.1± 1406
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −55.48
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.03163
Std Dev 0.9633
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

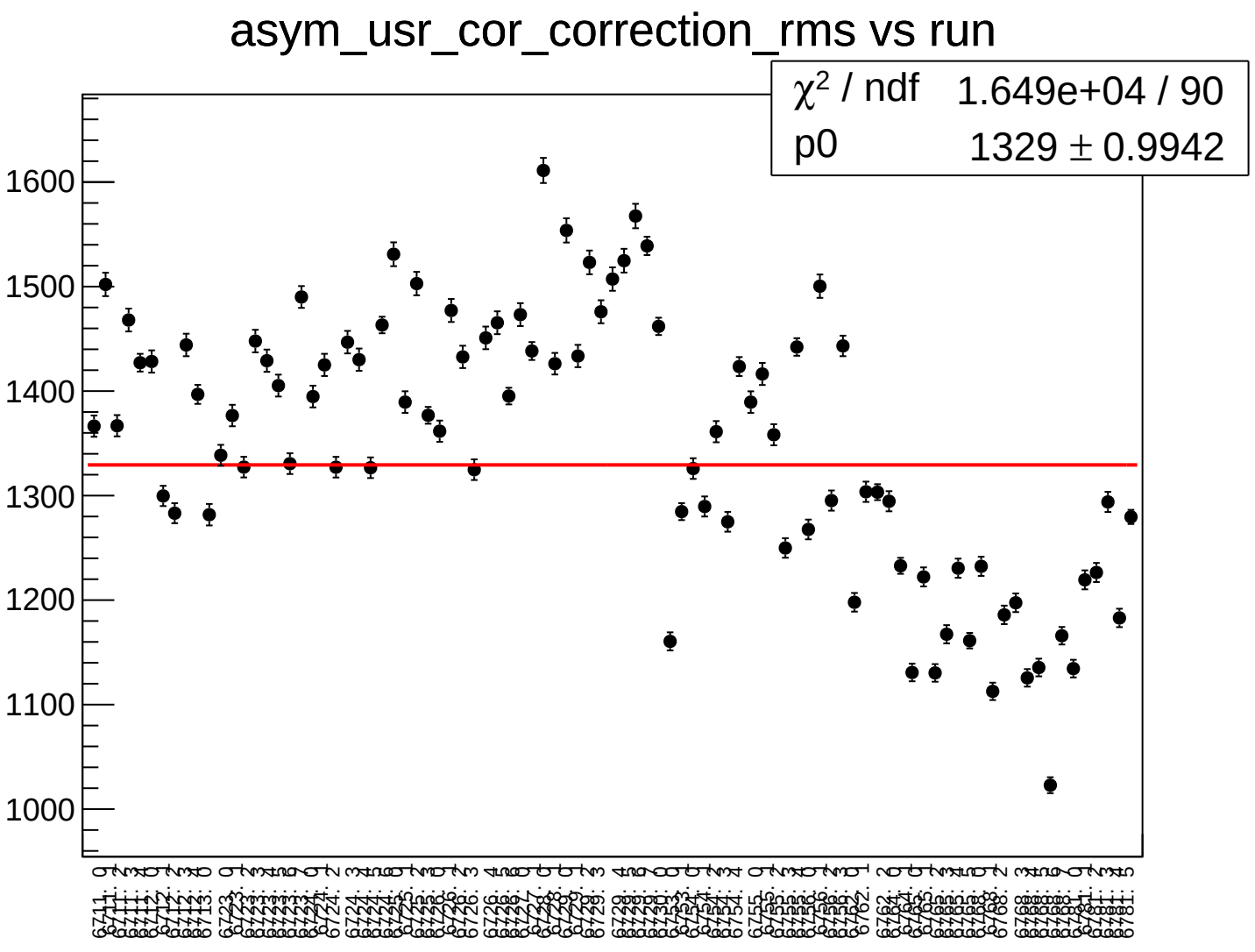

asym_usr_reg_correction_rms vs run
χ² / ndf 1.649e+04 / 90
p0 1329 ± 0.9942
1600
1500
1400
1300
1200
1100
1000

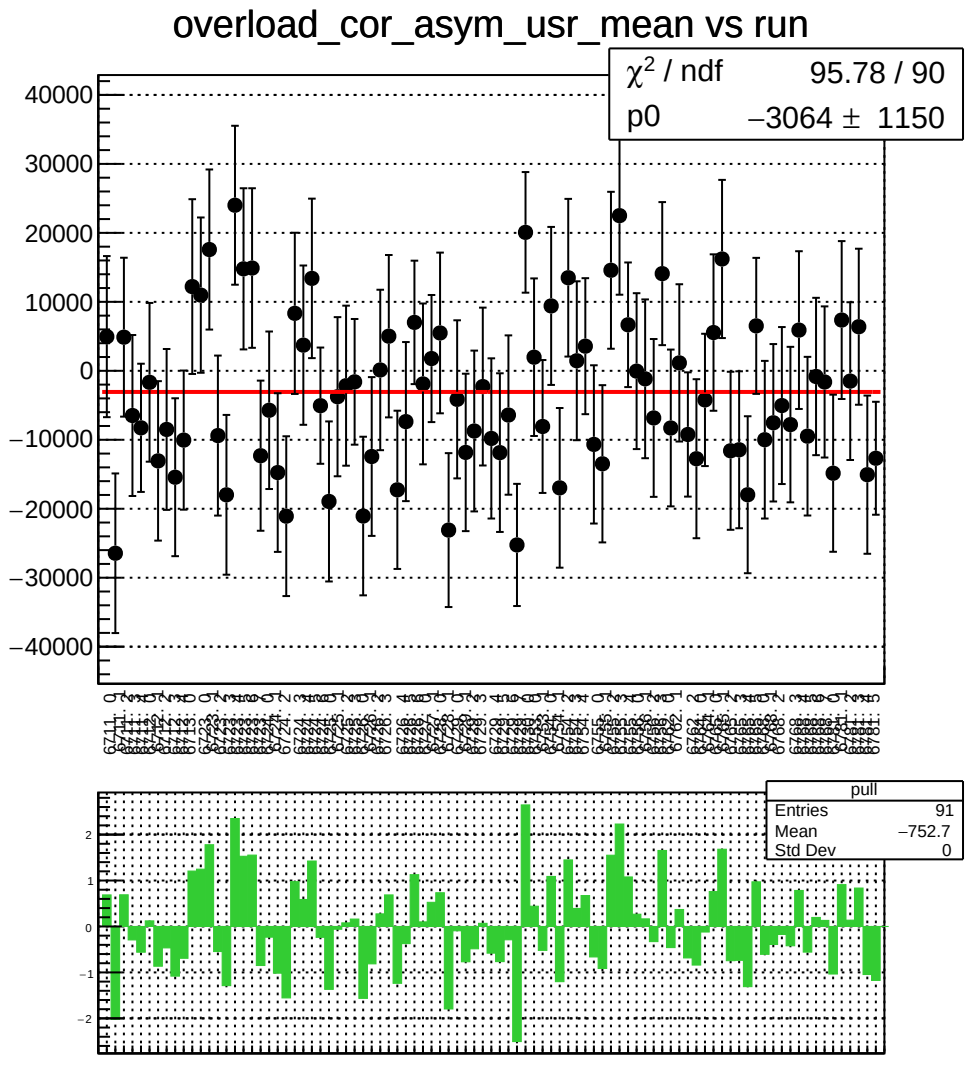

cor_asym_usr_mean vs run
χ² / ndf 97.16 / 90
p0 −3146 ± 1152
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean −237.8
Std Dev 0
2
1
0
−1
−2

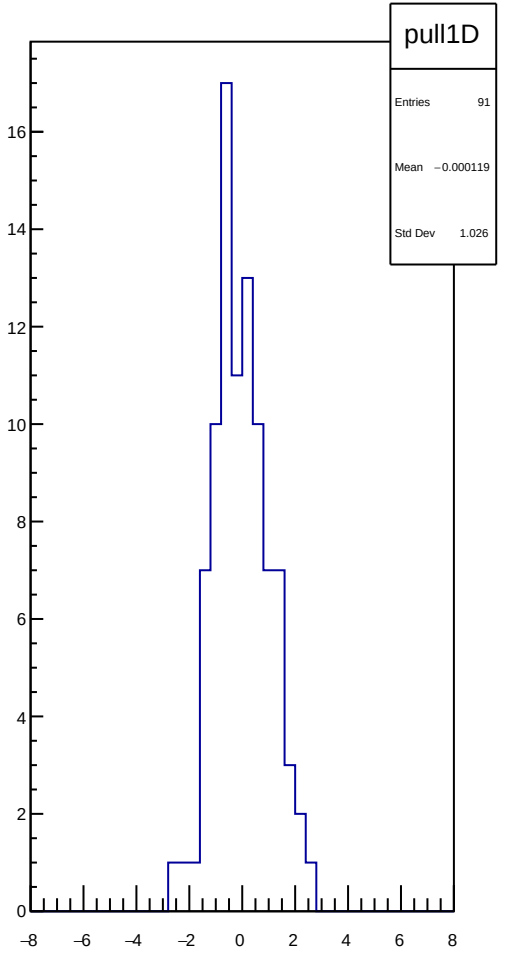

pull1D
Entries 91
Mean −0.001002
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

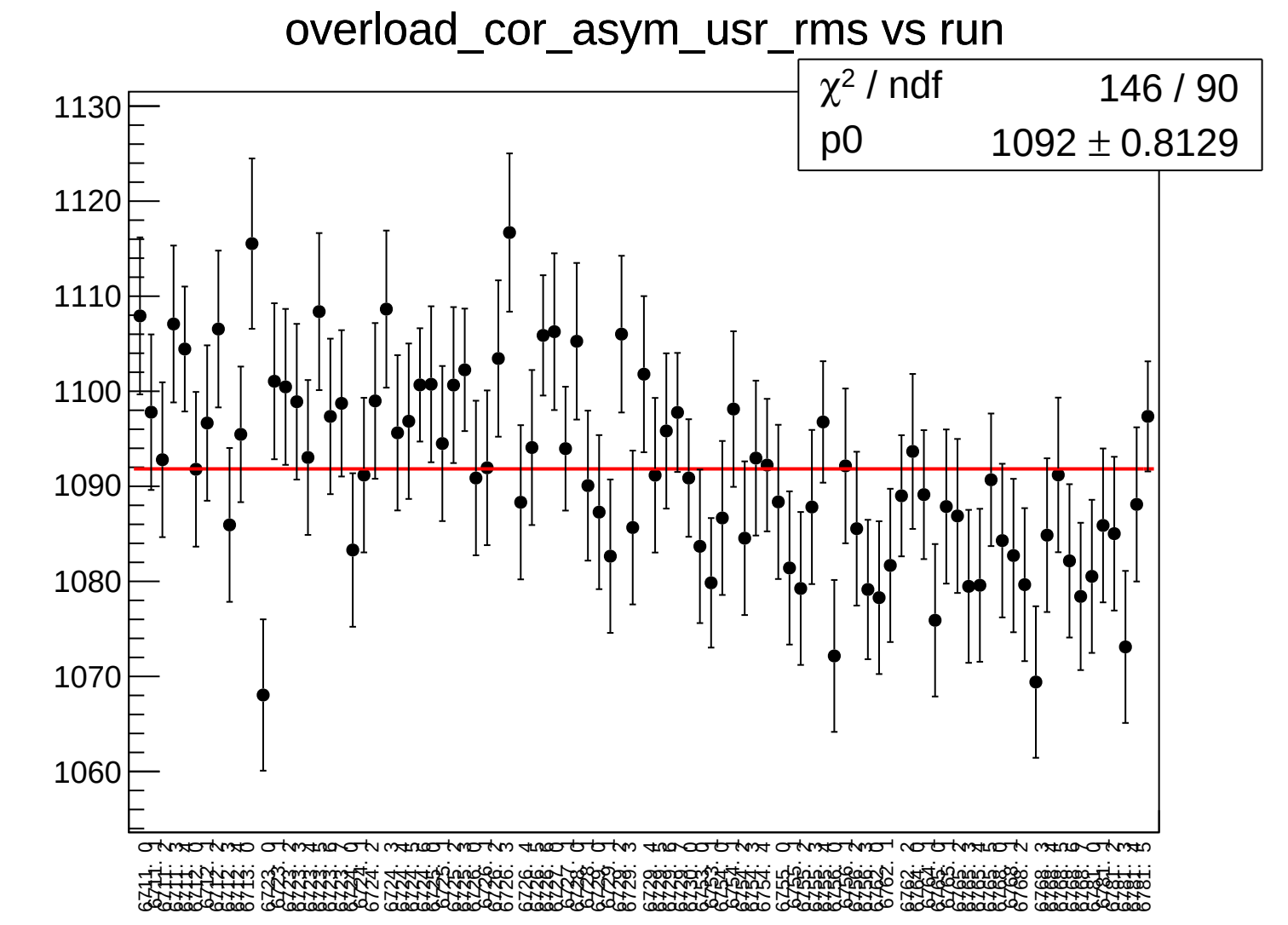

cor_asym_usr_rms vs run
χ² / ndf 148.4 / 90
p0 1094 ± 0.8148
1130
1120
1110
1100
1090
1080
1070
1060

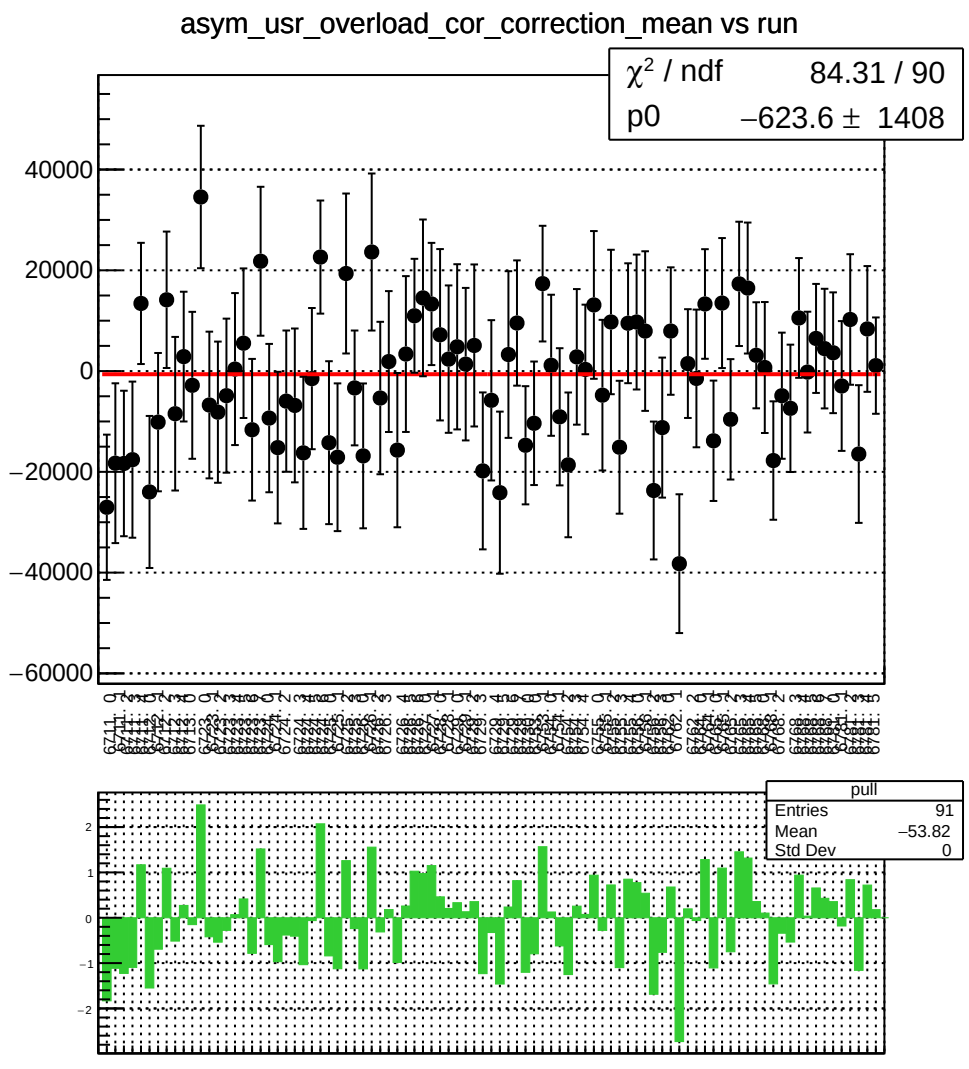

asym_usr_cor_correction_mean vs run
χ² / ndf 84.54 / 90
p0 −697.1± 1406
pull
Entries 91
Mean −55.48
Std Dev 0
pull1D
Entries 91
Mean −0.03163
Std Dev 0.9633

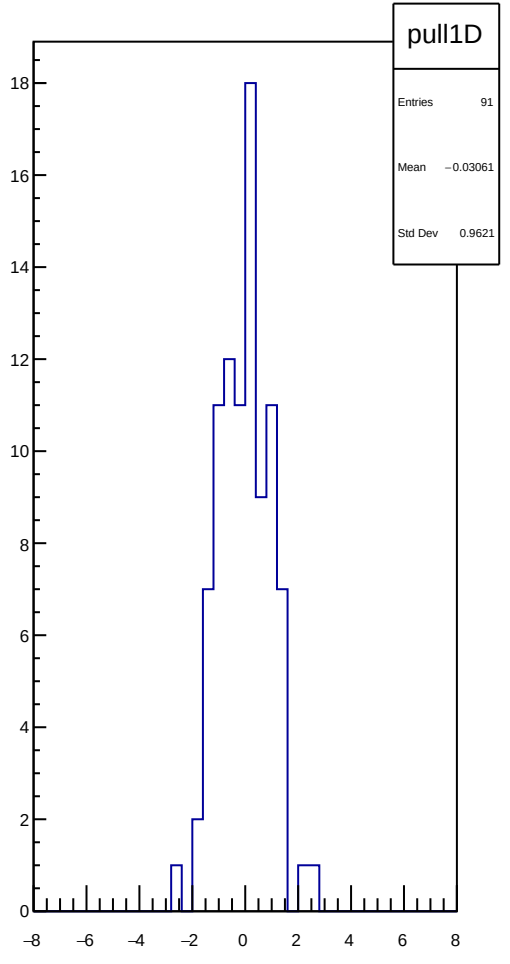

asym_usr_cor_correction_rms vs run
χ² / ndf 1.649e+04 / 90
p0 1329 ± 0.9942
1600
1500
1400
1300
1200
1100
1000

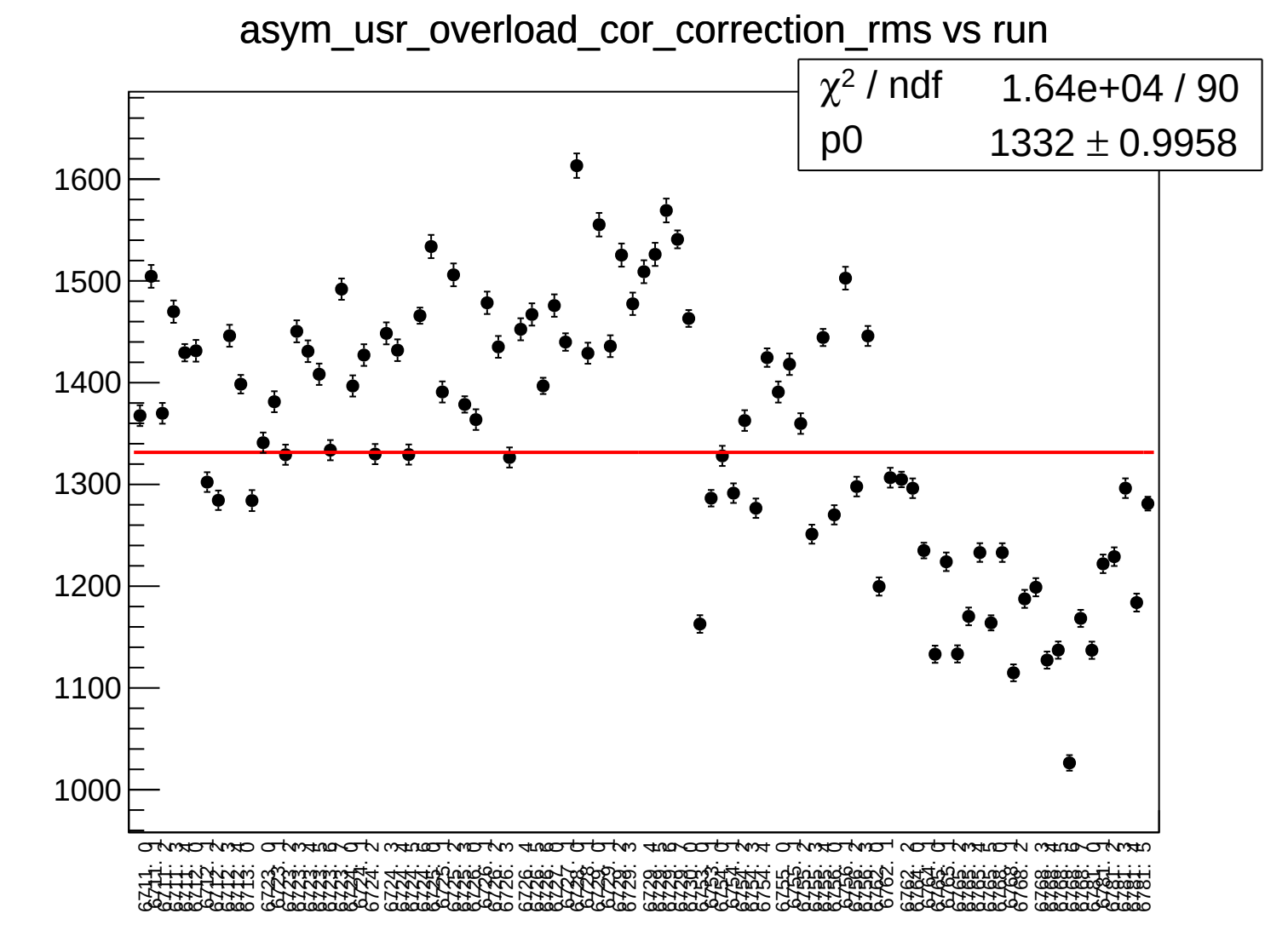

overload_cor_asym_usr_mean vs run
χ² / ndf 95.78 / 90
p0 −3064 ± 1150
pull
Entries 91
Mean −752.7
Std Dev 0

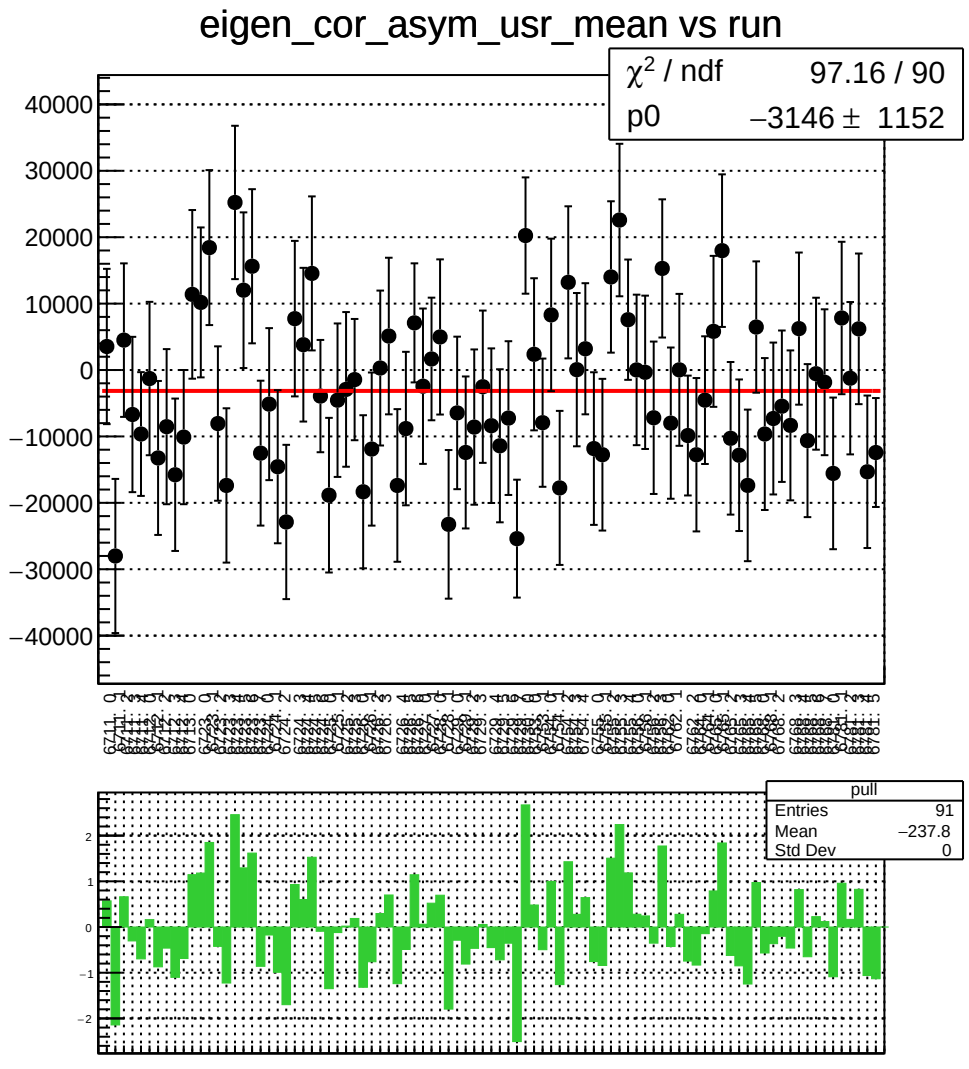

pull1D
Entries 91
Mean −0.000119
Std Dev 1.026

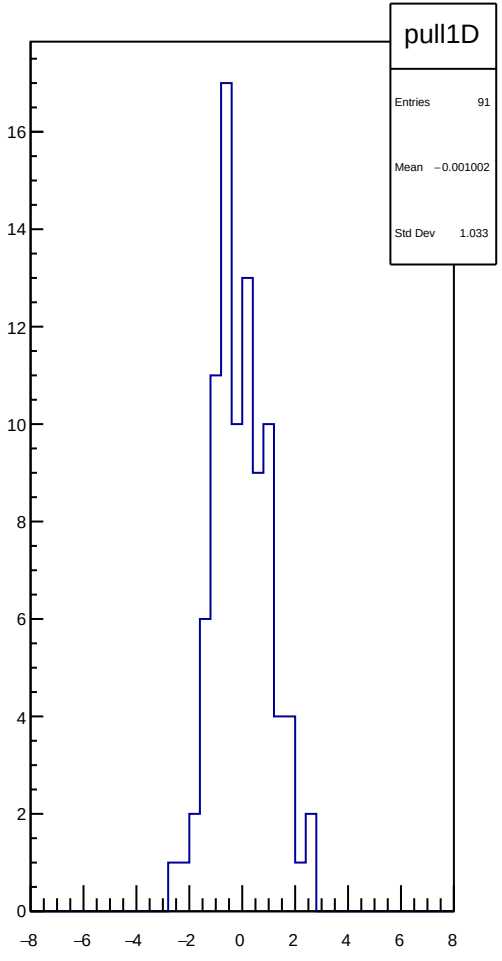

overload_cor_asym_usr_rms vs run
χ² / ndf 146 / 90
p0 1092 ± 0.8129
1130
1120
1110
1100
1090
1080
1070
1060

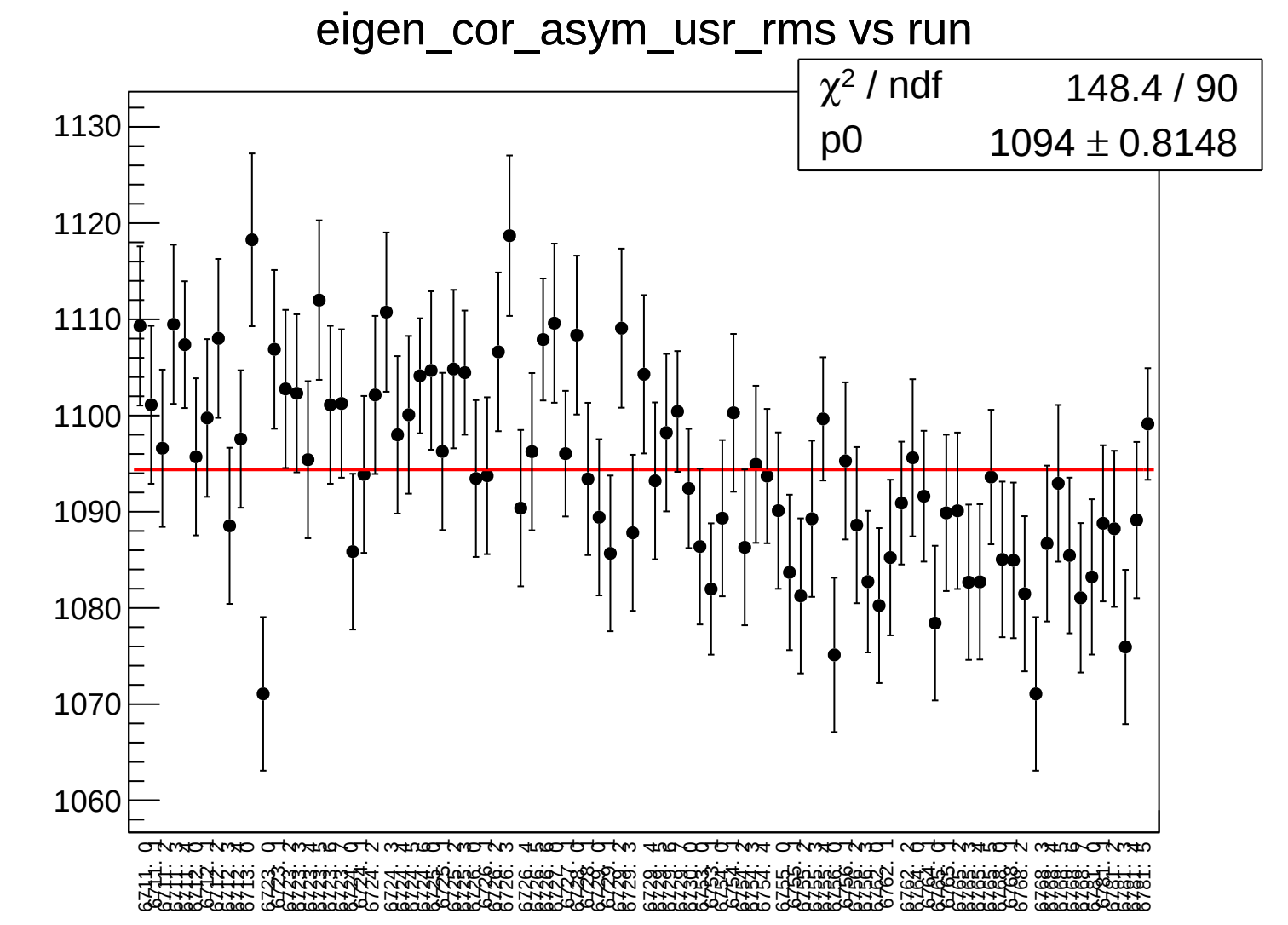

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 84.31 / 90
p0 −623.6 ± 1408
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −53.82
Std Dev 0
2
1
0
−1
−2

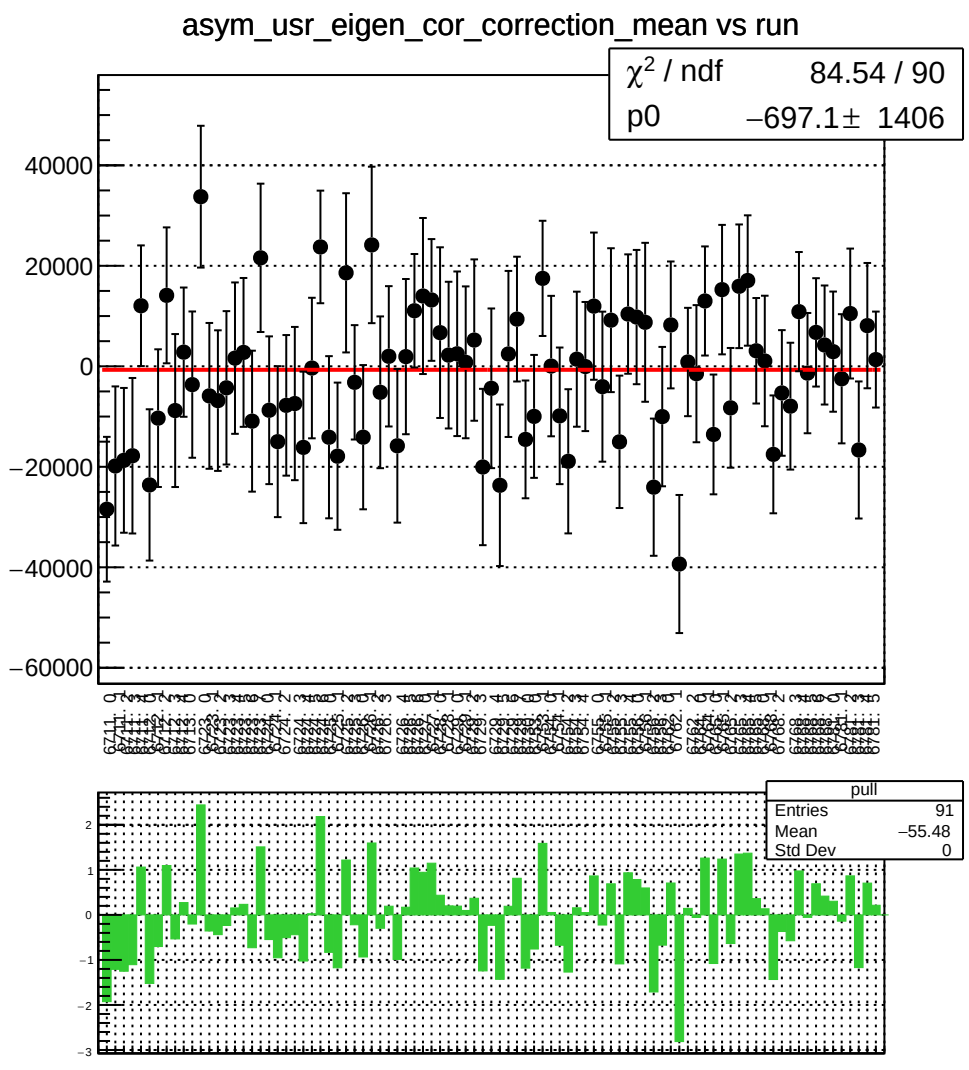

pull1D
Entries 91
Mean −0.03061
Std Dev 0.9621
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

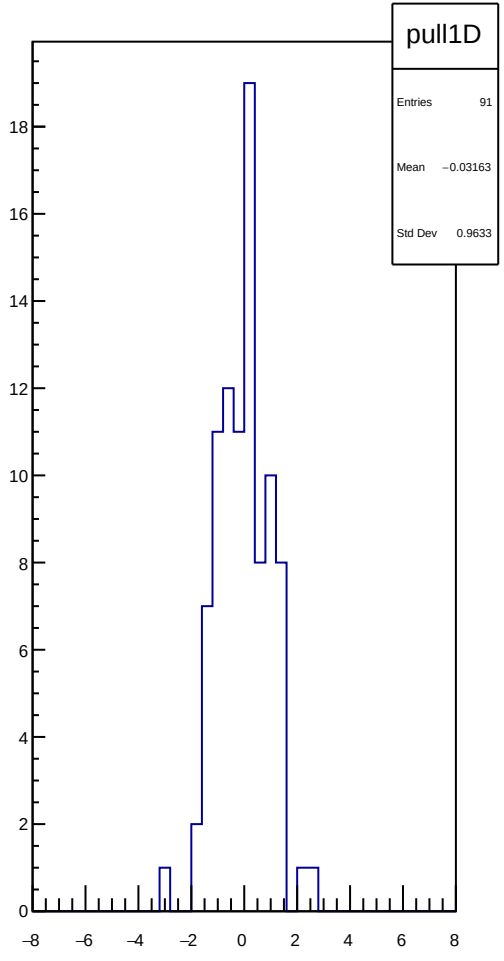

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 1.64e+04 / 90
p0 1332 ± 0.9958
1600
1500
1400
1300
1200
1100
1000

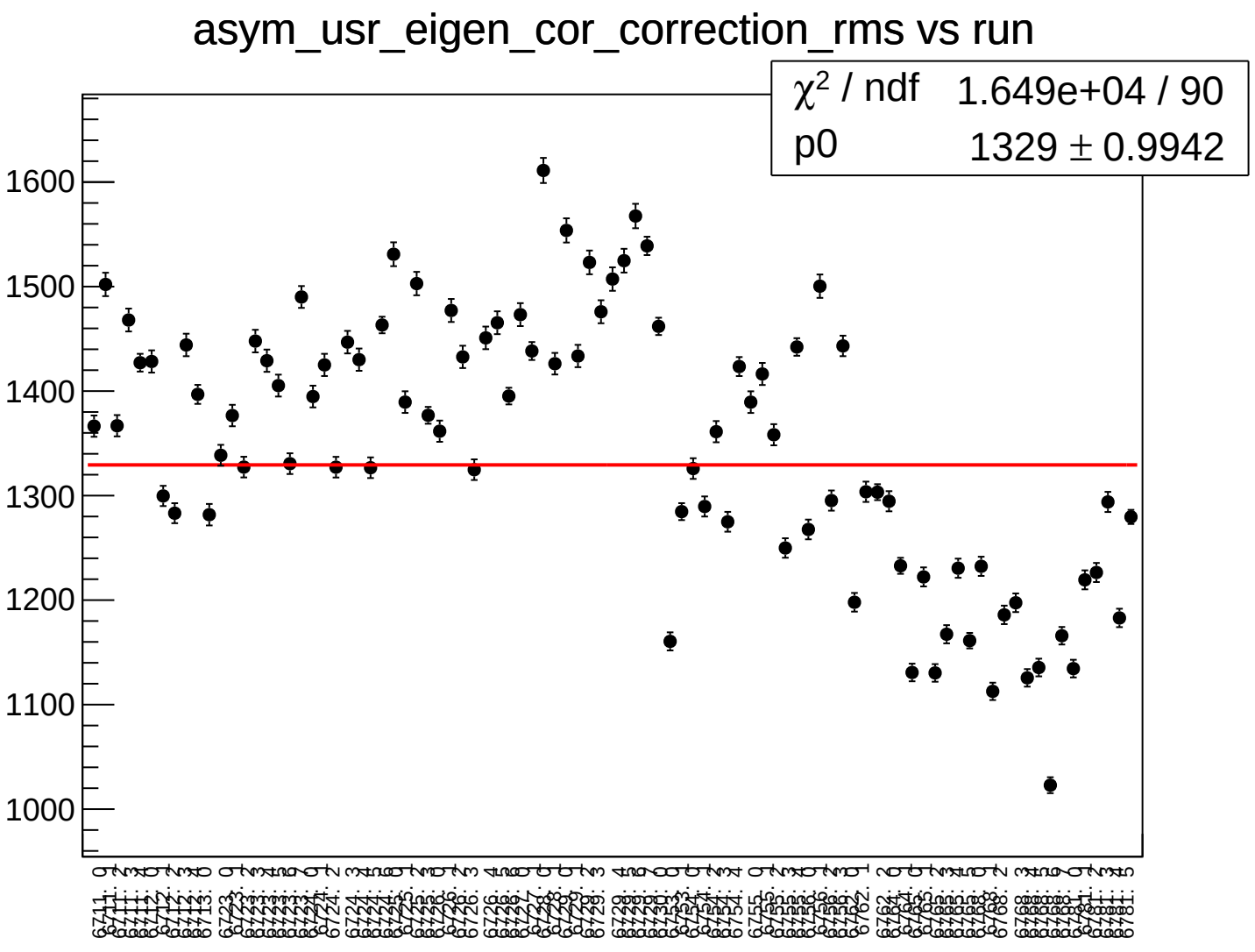

eigen_cor_asym_usr_mean vs run
χ² / ndf 97.16 / 90
p0 −3146 ± 1152
pull
Entries 91
Mean −237.8
Std Dev 0

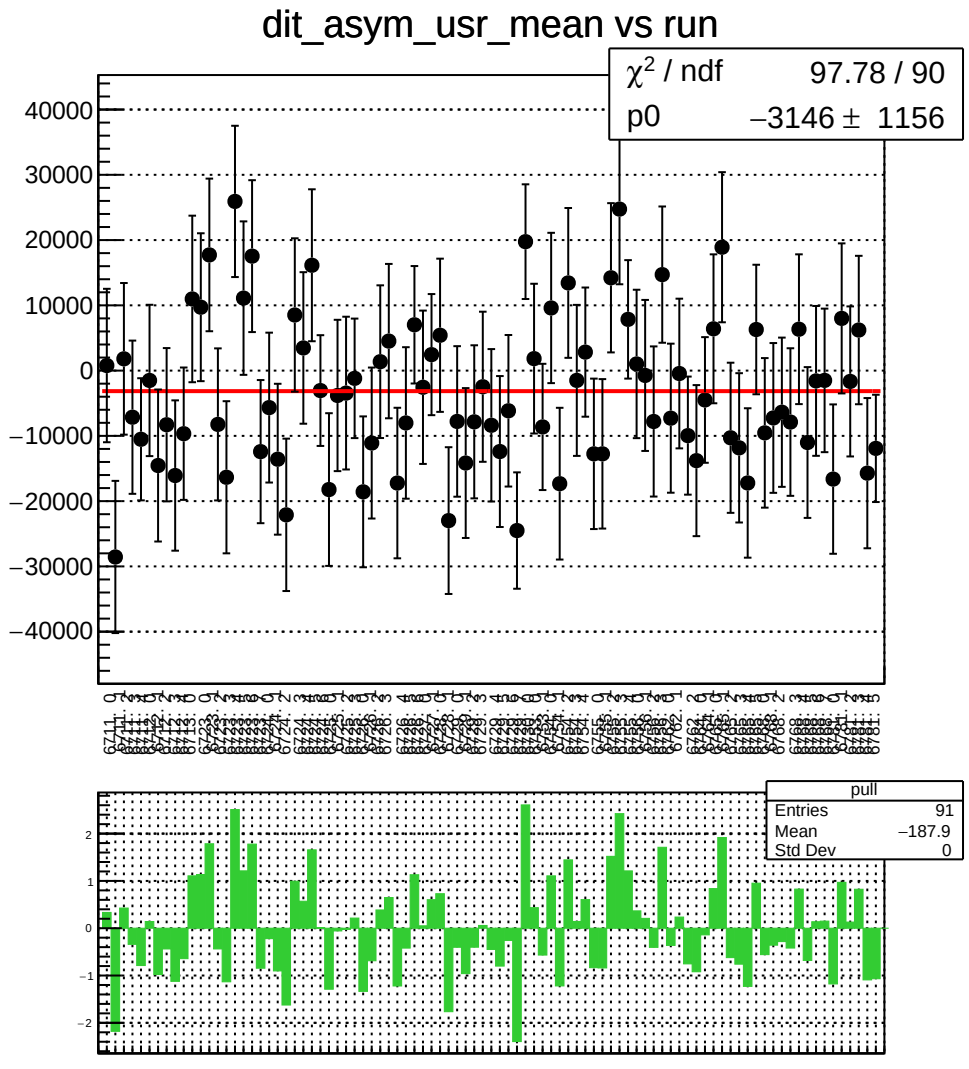

pull1D
Entries 91
Mean −0.001002
Std Dev 1.033

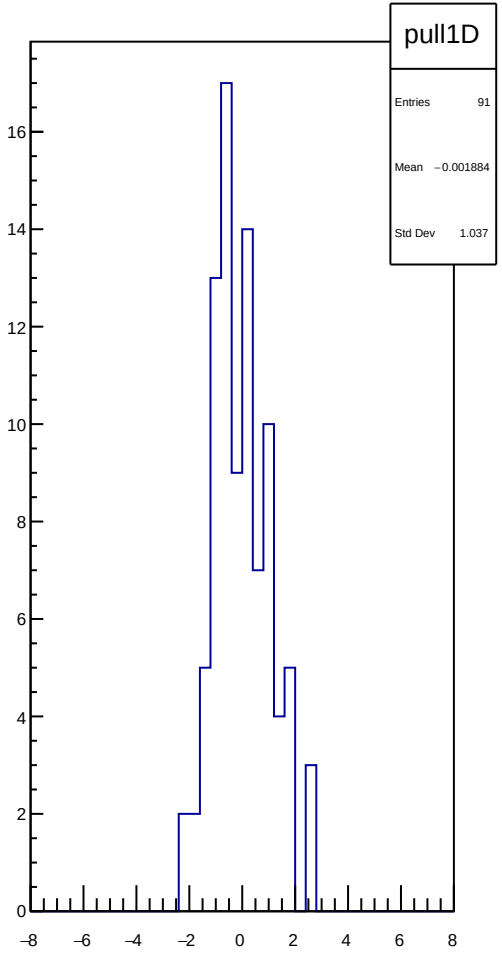

eigen_cor_asym_usr_rms vs run
χ² / ndf 148.4 / 90
p0 1094 ± 0.8148
1130
1120
1110
1100
1090
1080
1070
1060

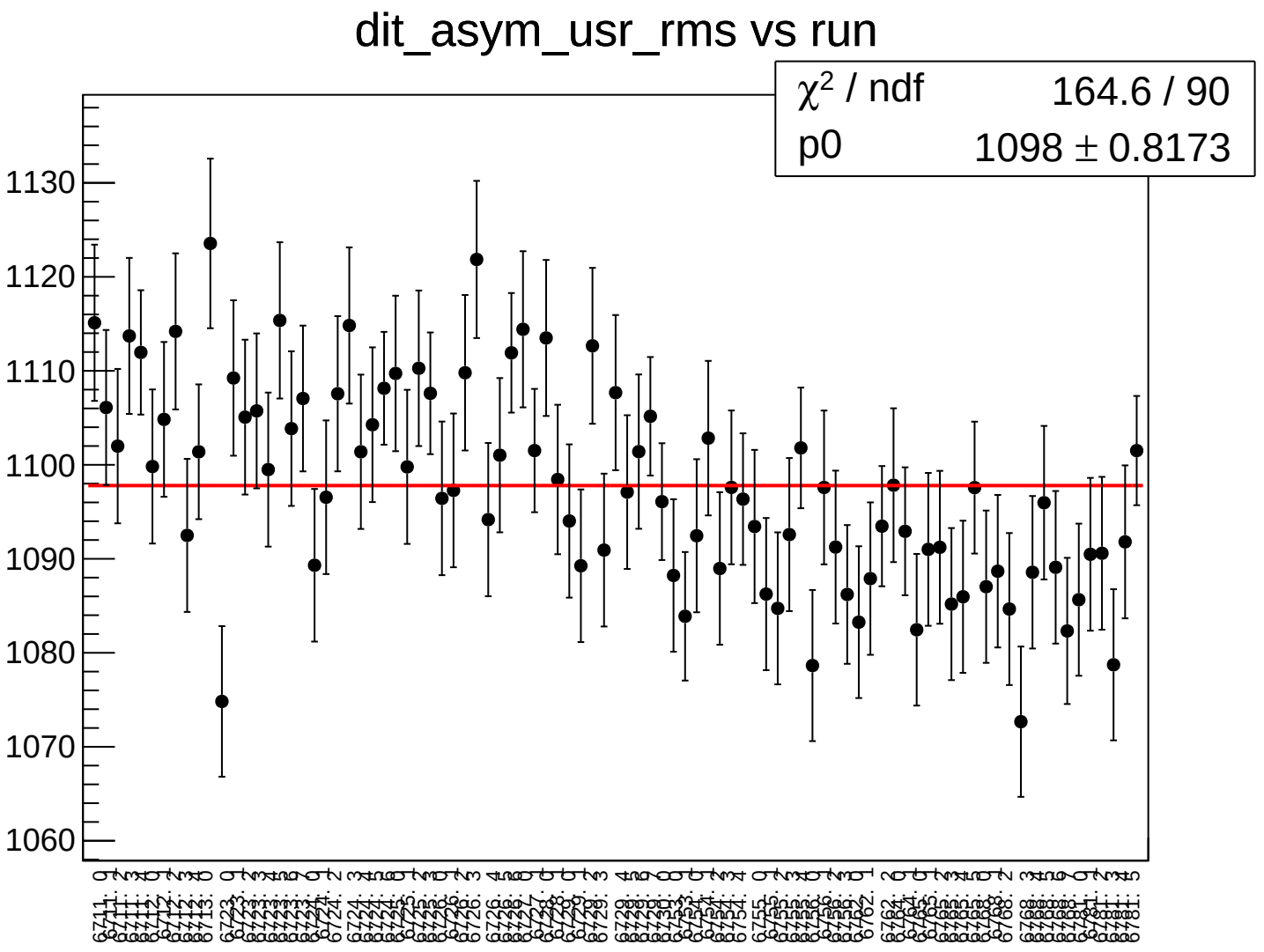

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 84.54 / 90
p0 −697.1± 1406
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −55.48
Std Dev 0
2
1
0
−1
−2
−3

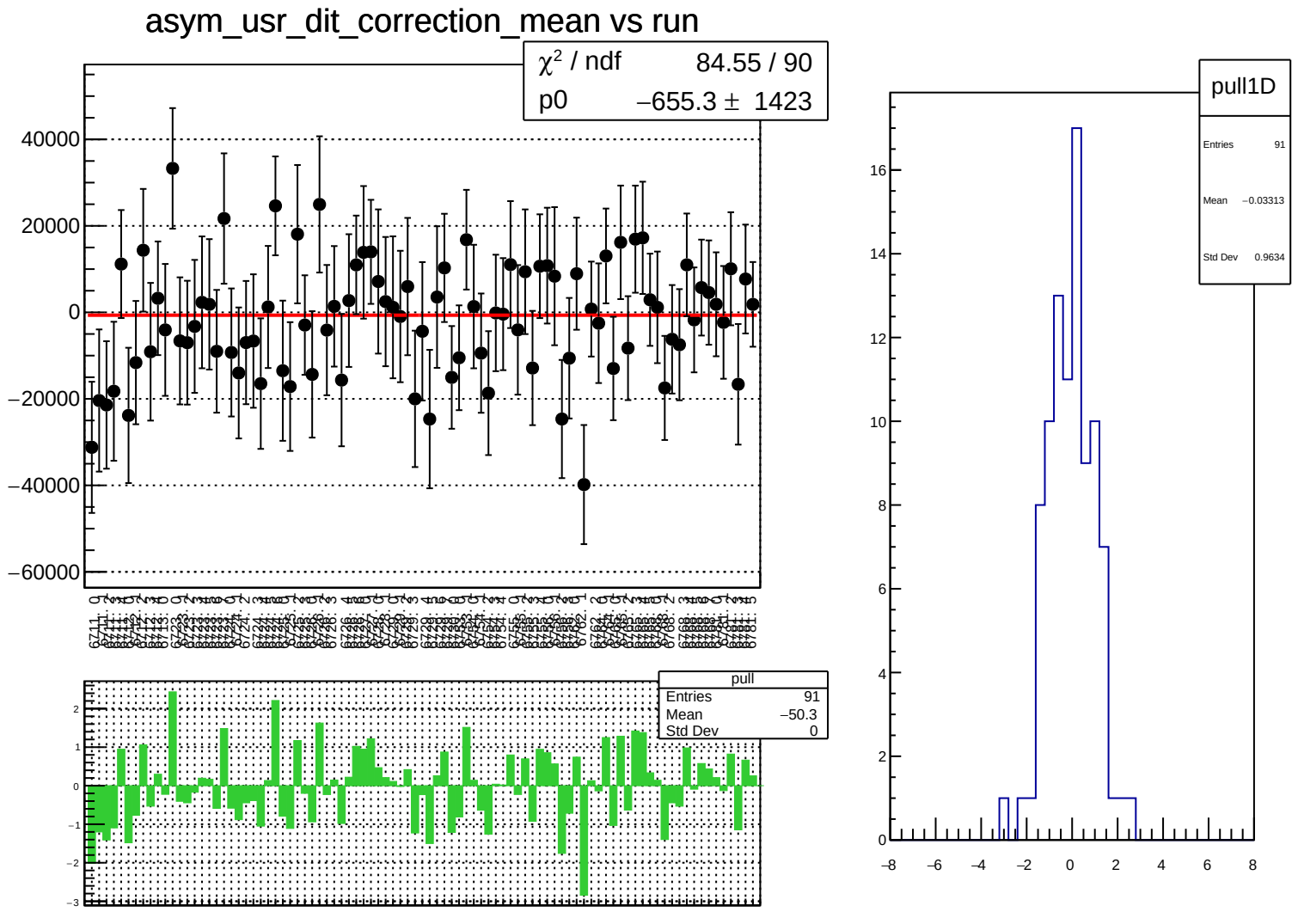

pull1D
Entries 91
Mean −0.03163
Std Dev 0.9633
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

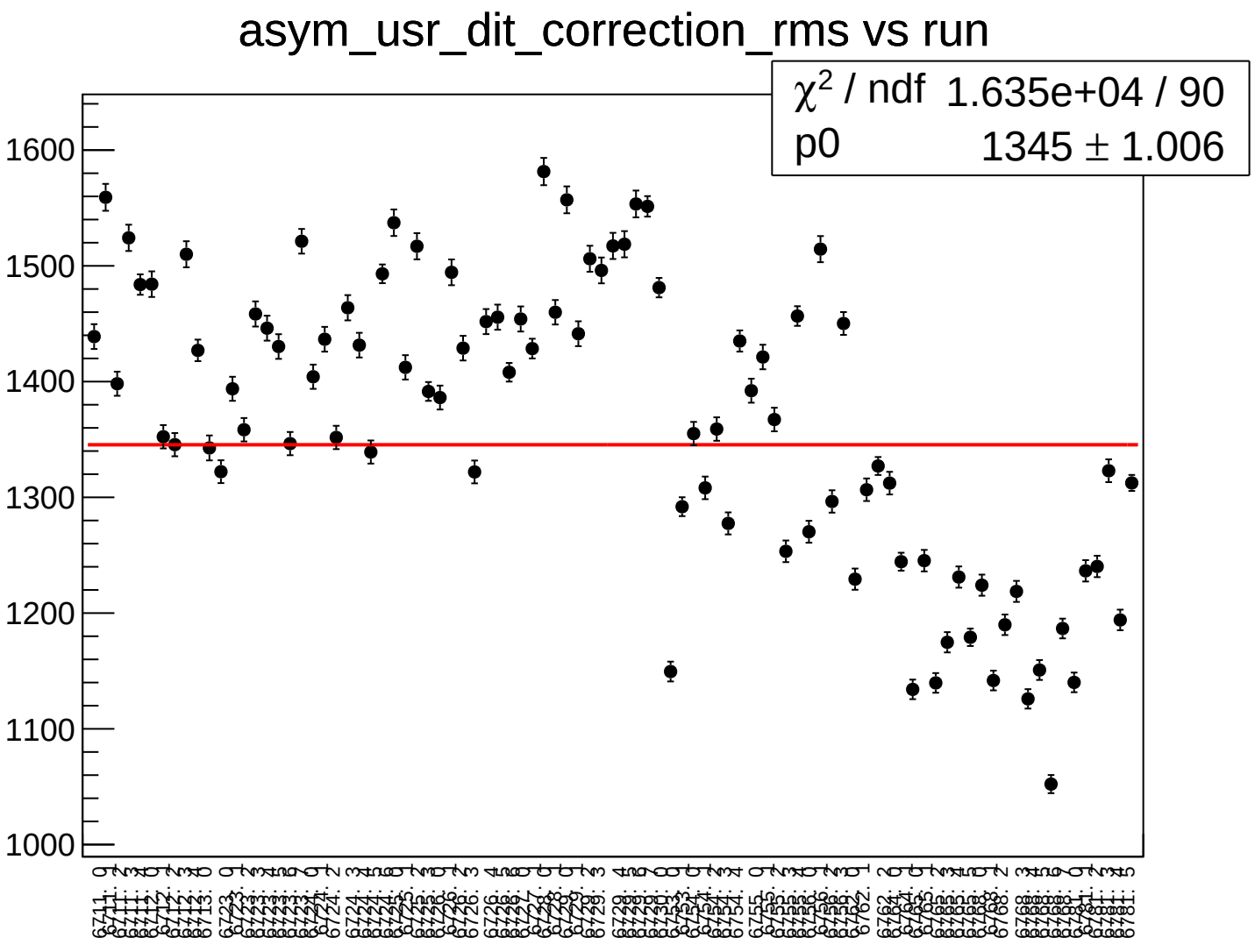

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 1.649e+04 / 90
p0 1329 ± 0.9942
1600
1500
1400
1300
1200
1100
1000

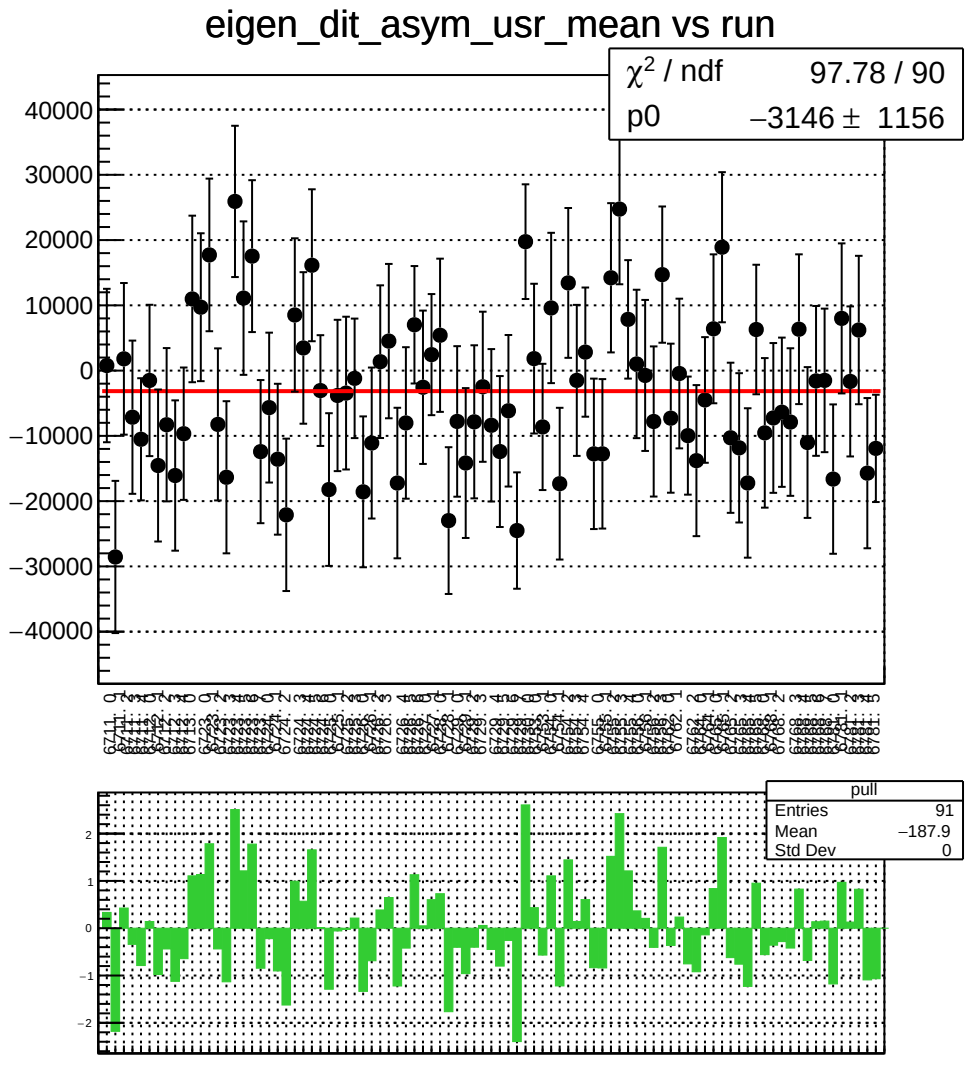

dit_asym_usr_mean vs run
χ² / ndf 97.78 / 90
p0 −3146 ± 1156
pull
Entries 91
Mean −187.9
Std Dev 0

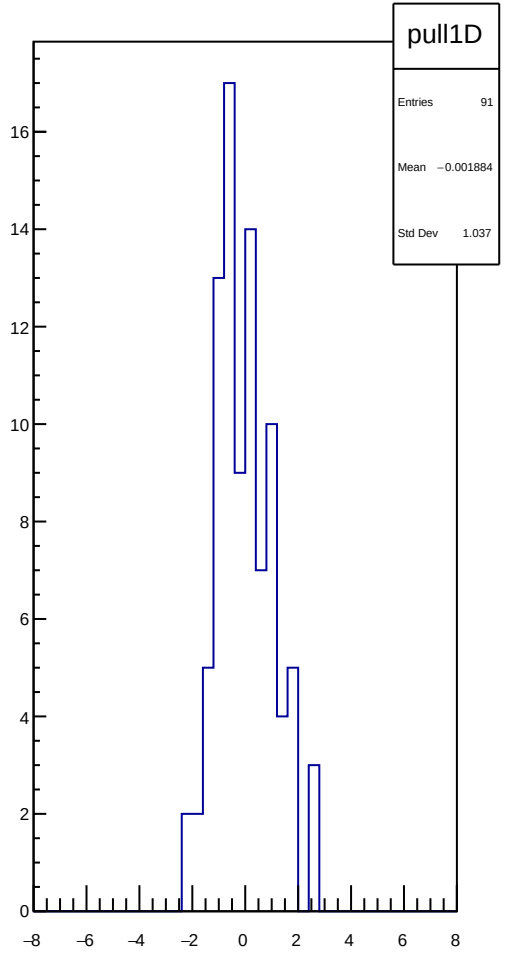

pull1D
Entries 91
Mean −0.001884
Std Dev 1.037

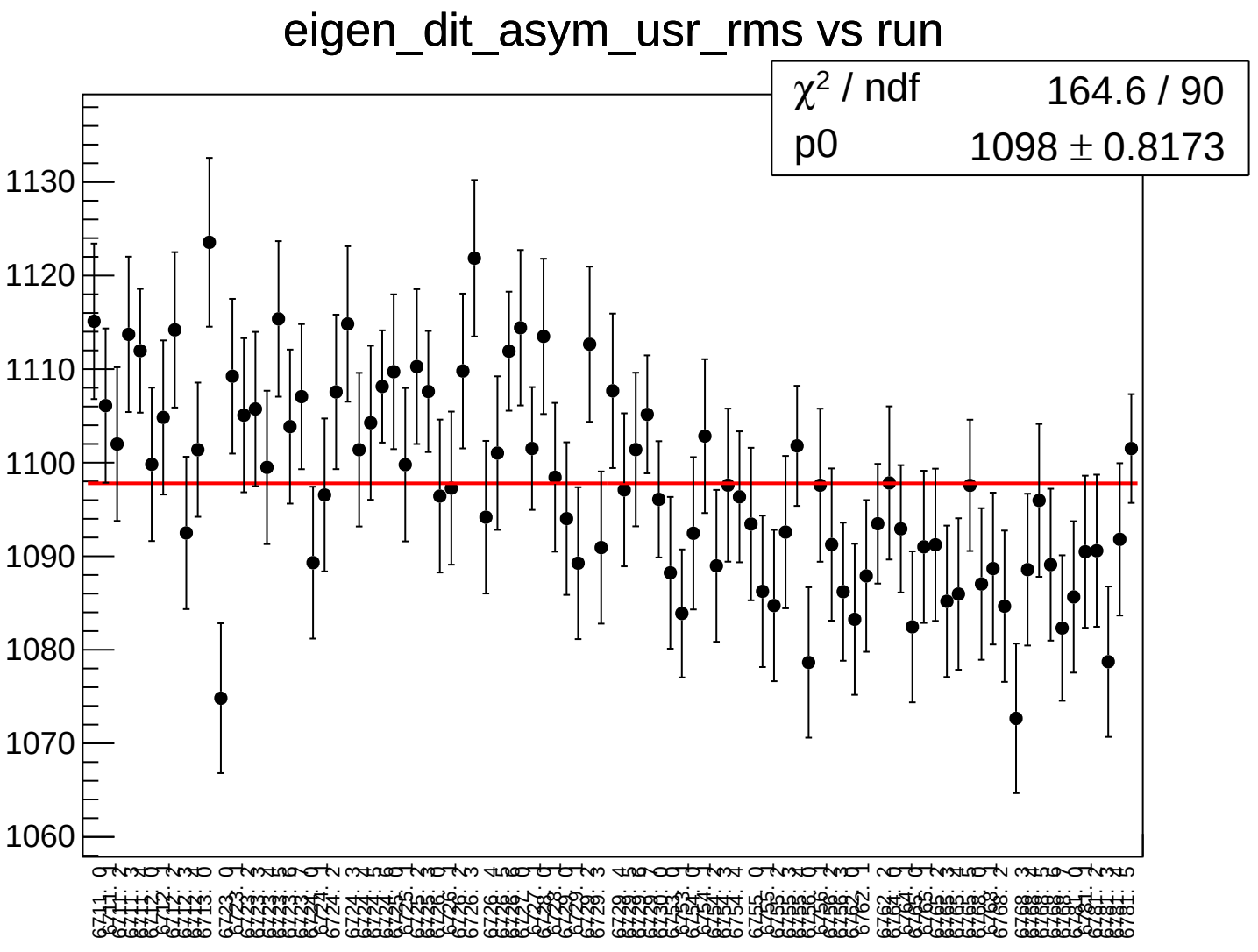

dit_asym_usr_rms vs run
χ² / ndf 164.6 / 90
p0 1098 ± 0.8173
1130
1120
1110
1100
1090
1080
1070
1060

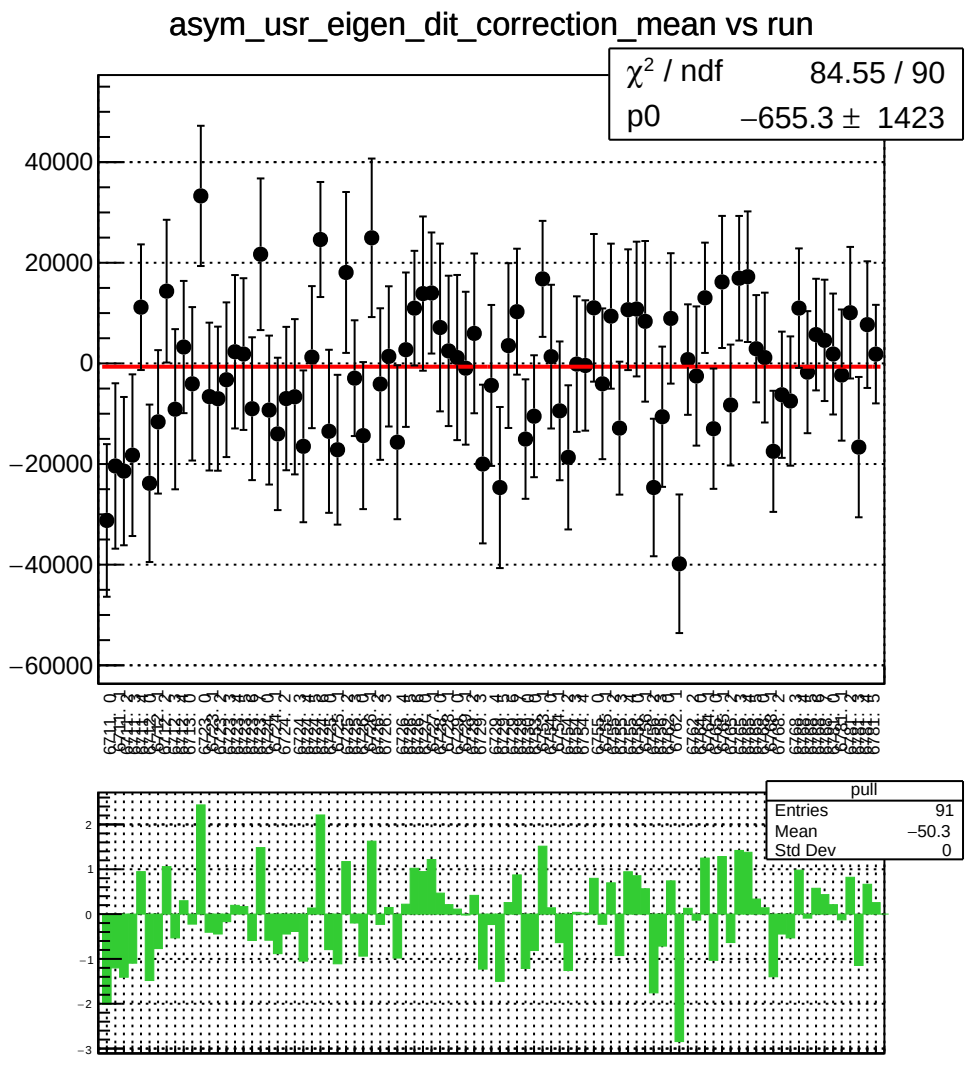

asym_usr_dit_correction_mean vs run
χ² / ndf 84.55 / 90
p0 −655.3 ± 1423
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −50.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.03313
Std Dev 0.9634
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

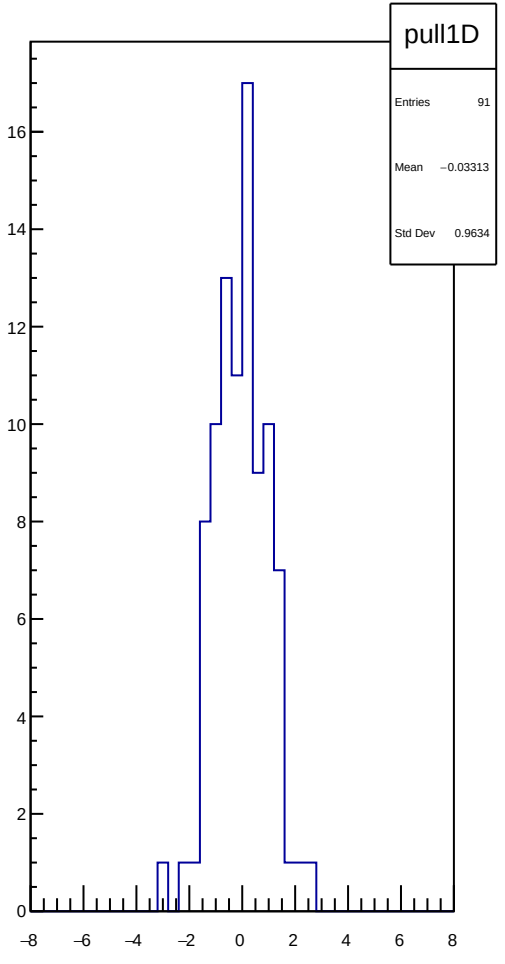

asym_usr_dit_correction_rms vs run
χ² / ndf 1.635e+04 / 90
p0 1345 ± 1.006
1600
1500
1400
1300
1200
1100
1000

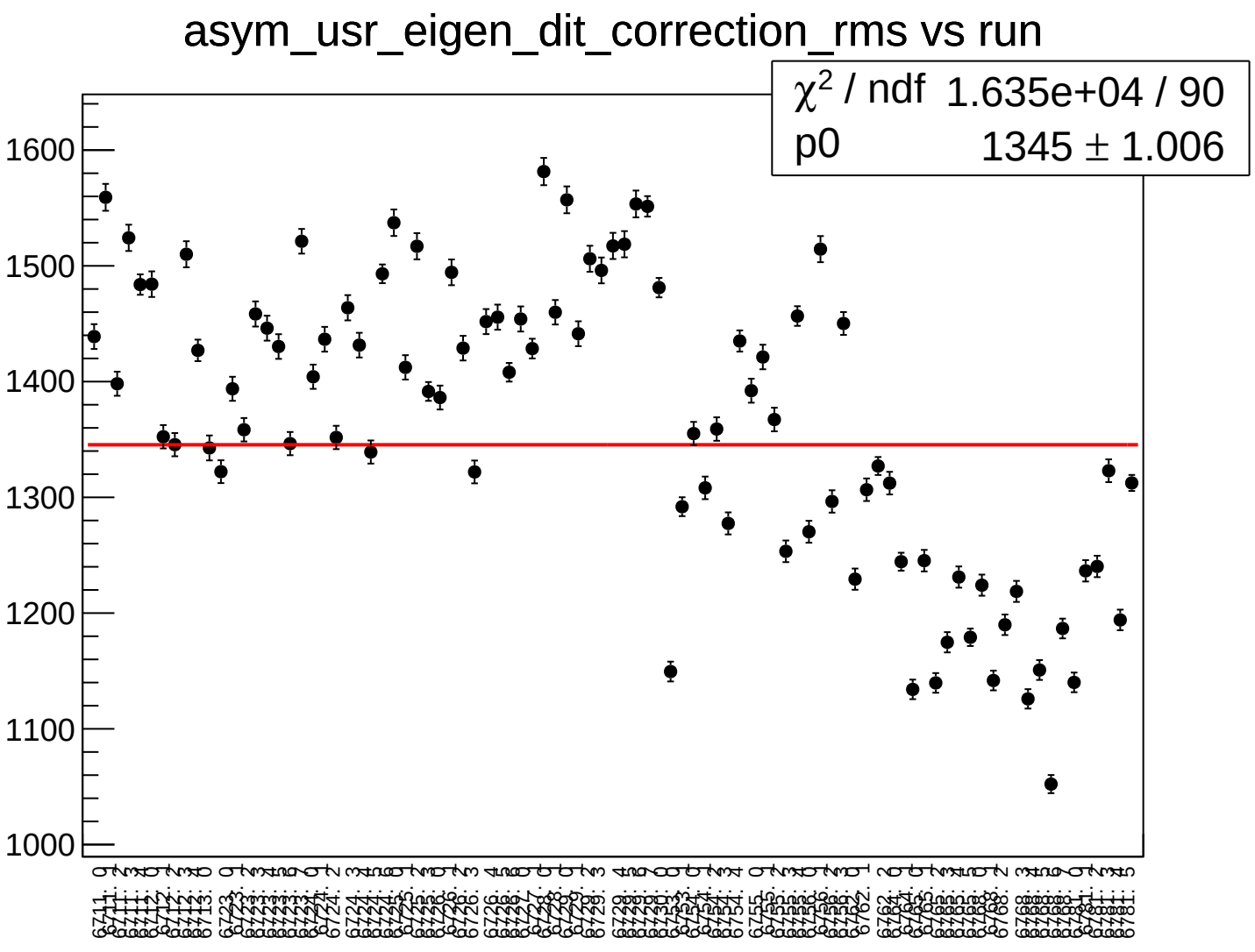

eigen_dit_asym_usr_mean vs run
χ² / ndf 97.78 / 90
p0 −3146 ± 1156
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean −187.9
Std Dev 0
2
1
0
−1
−2

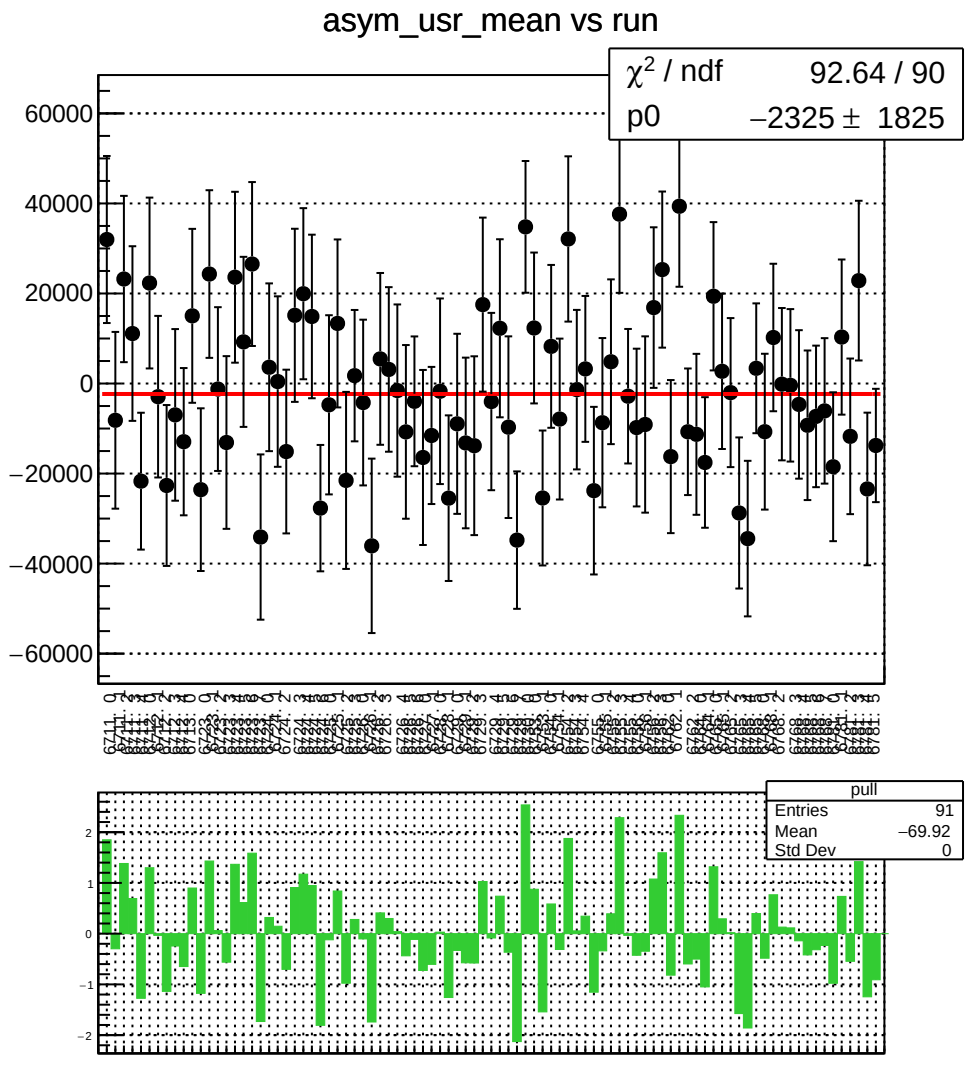

pull1D
Entries 91
Mean −0.001884
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

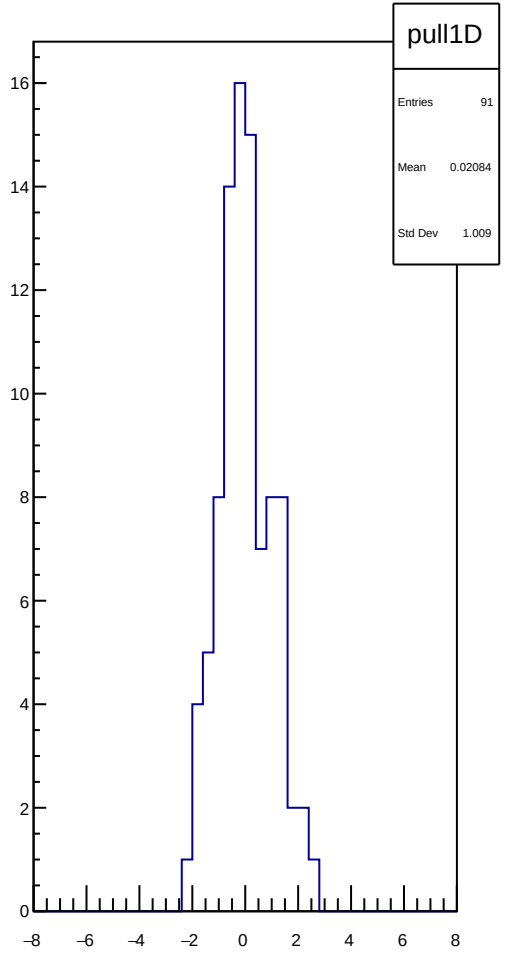

eigen_dit_asym_usr_rms vs run
χ^2 / ndf 164.6 / 90
p0 1098 ± 0.8173
1130
1120
1110
1100
1090
1080
1070
1060

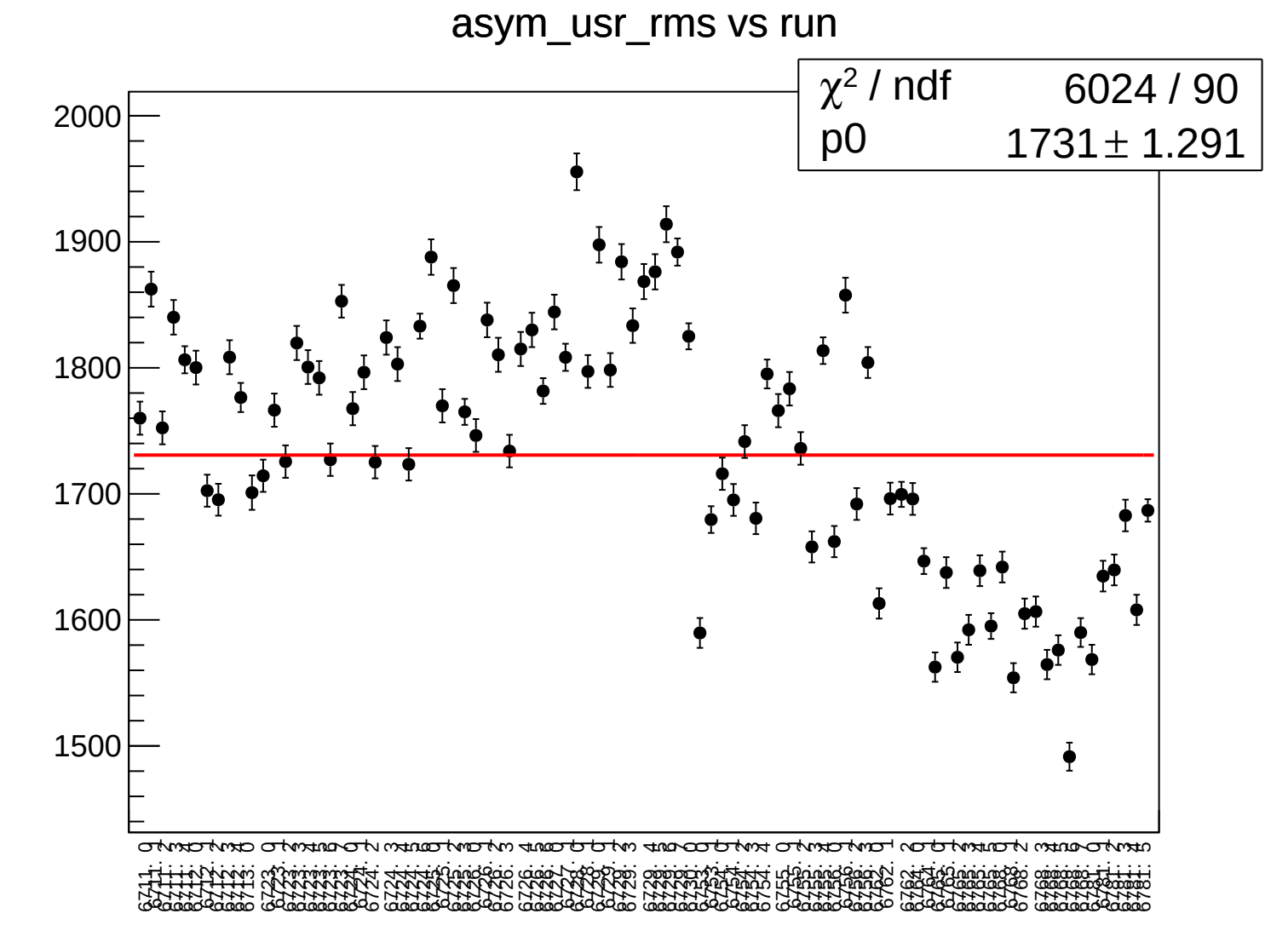

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 84.55 / 90
p0 −655.3 ± 1423
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −50.3
Std Dev 0
2
1
0
−1
−2
−3

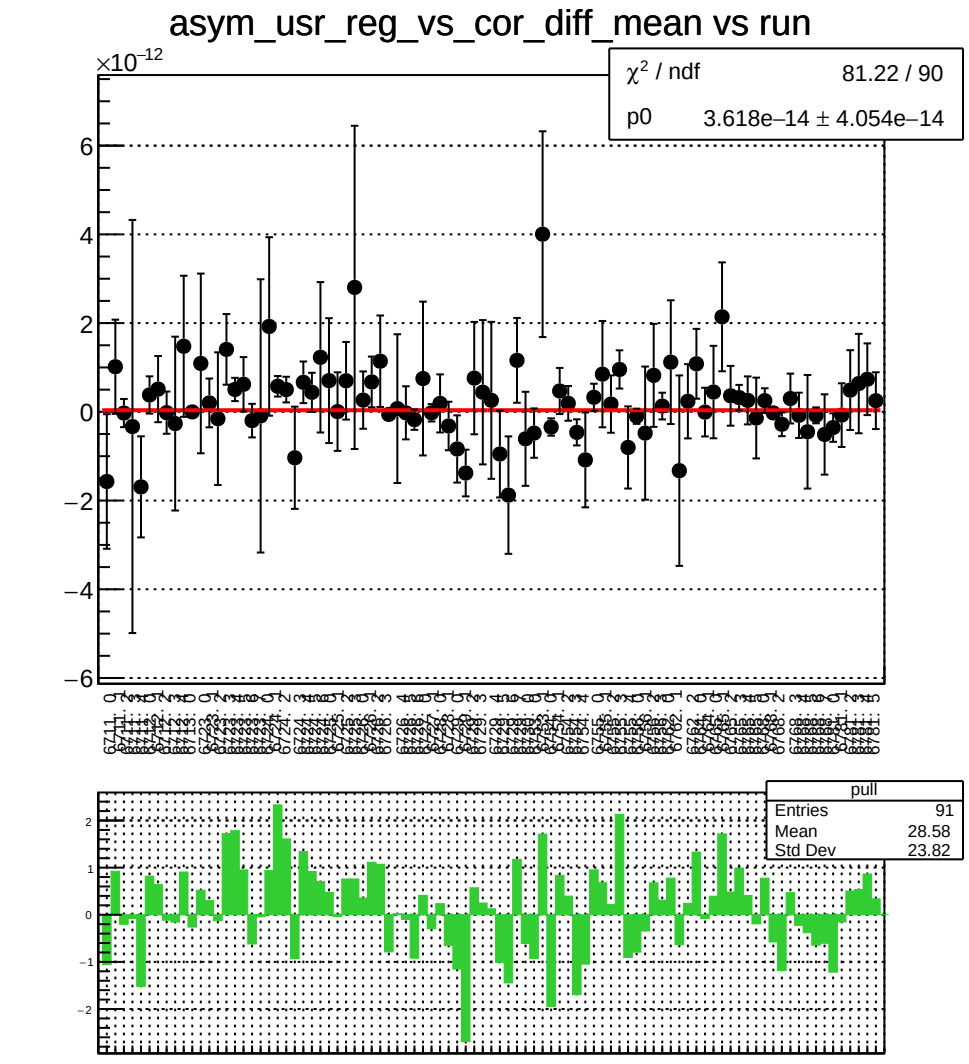

pull1D
Entries 91
Mean −0.03313
Std Dev 0.9634
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

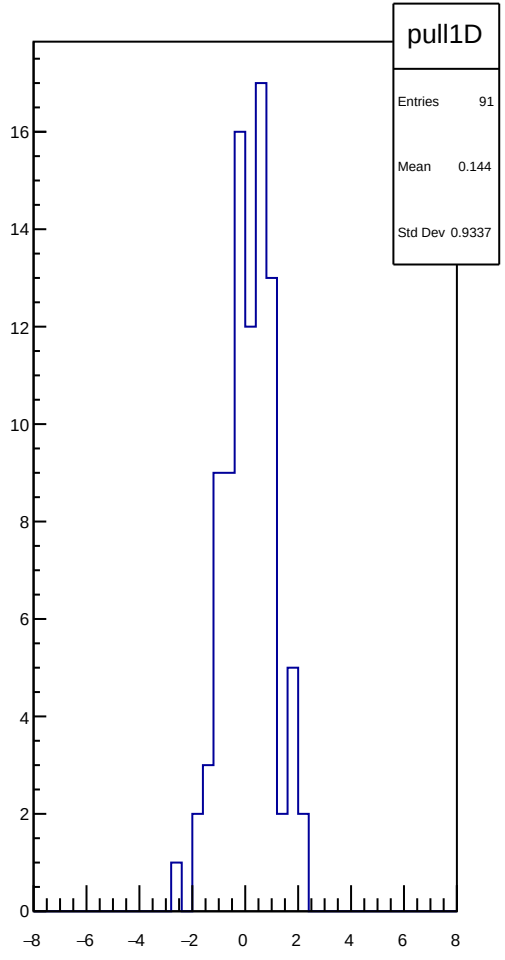

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 1.635e+04 / 90
p0 1345 ± 1.006
1600
1500
1400
1300
1200
1100
1000


asym_usr_mean vs run
χ² / ndf 92.64 / 90
p0 −2325 ± 1825
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −69.92
Std Dev 0
2
1
0
−1
−2

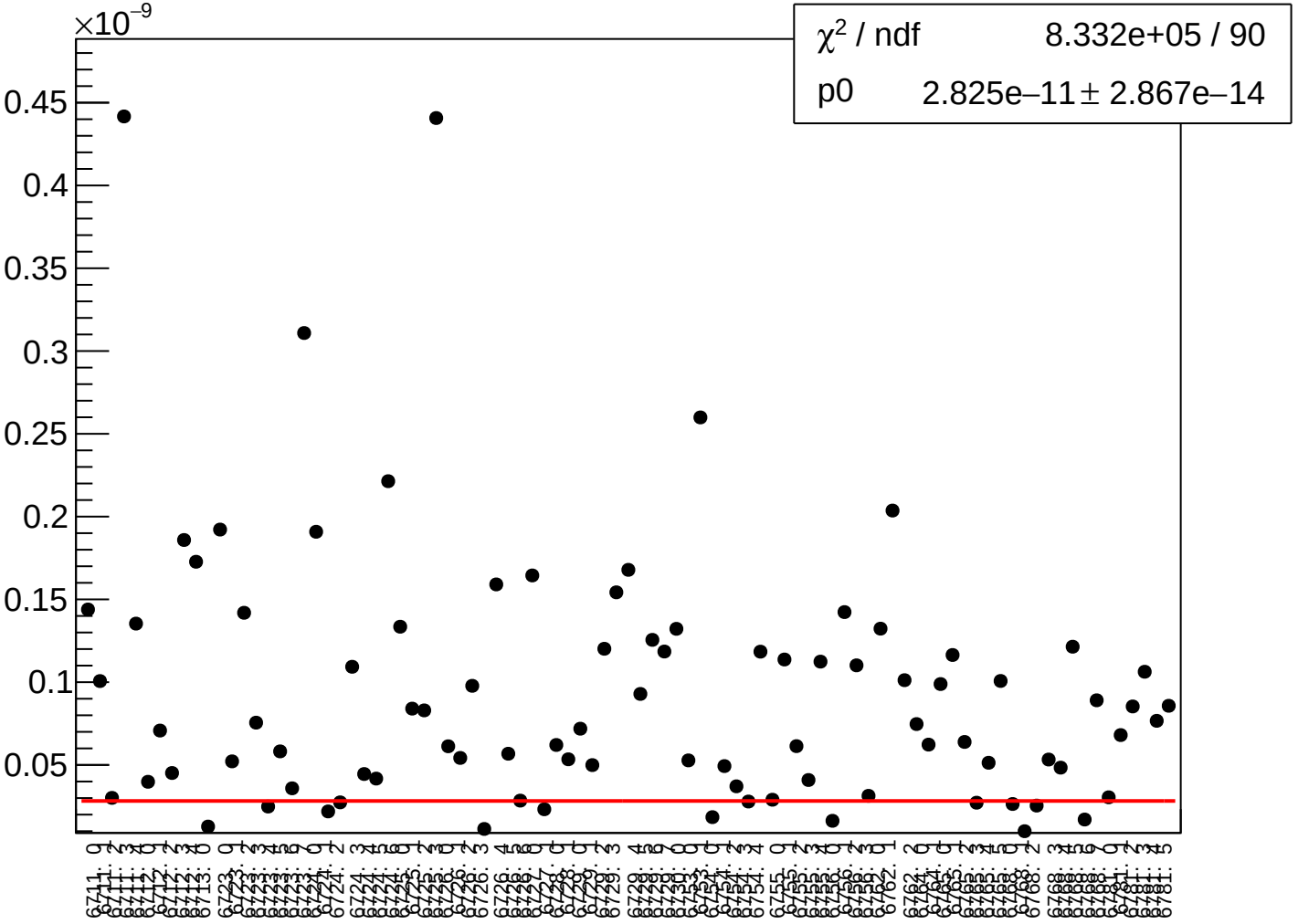

pull1D
Entries 91
Mean 0.02084
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

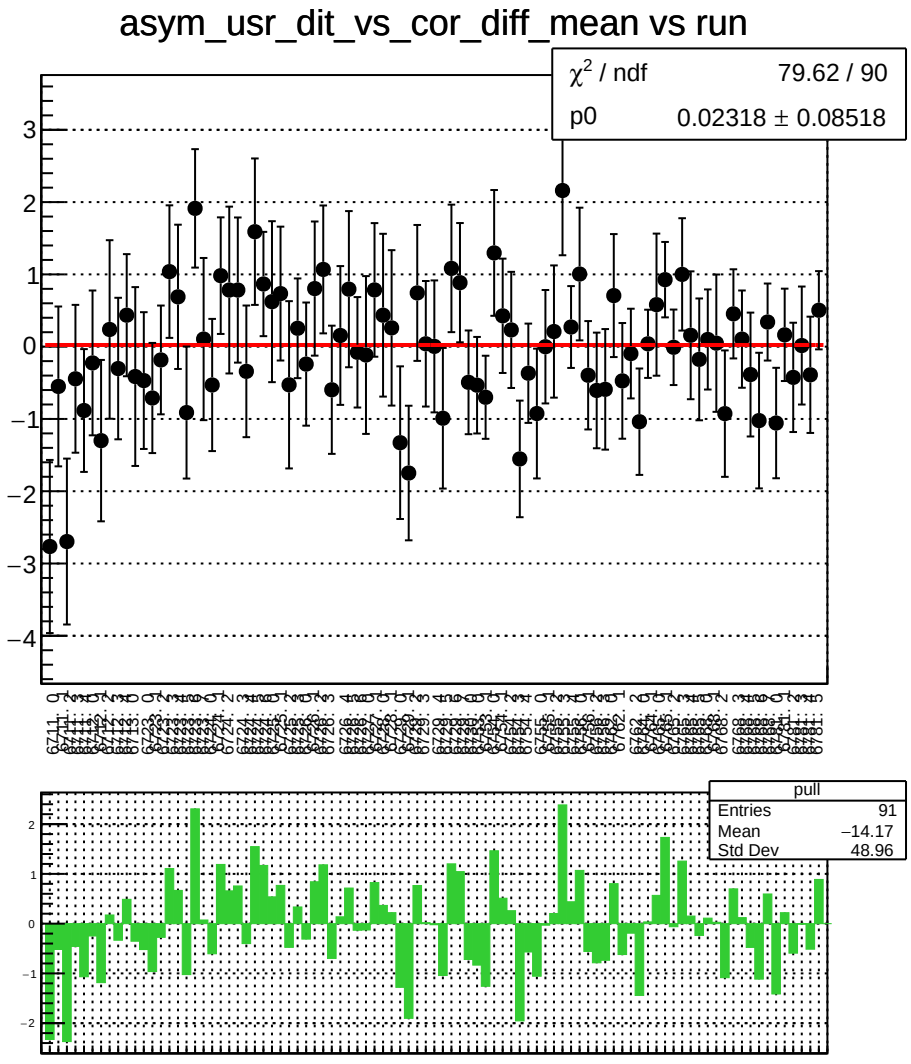

asym_usr_rms vs run
χ² / ndf 6024 / 90
p0 1731 ± 1.291
2000
1900
1800
1700
1600
1500

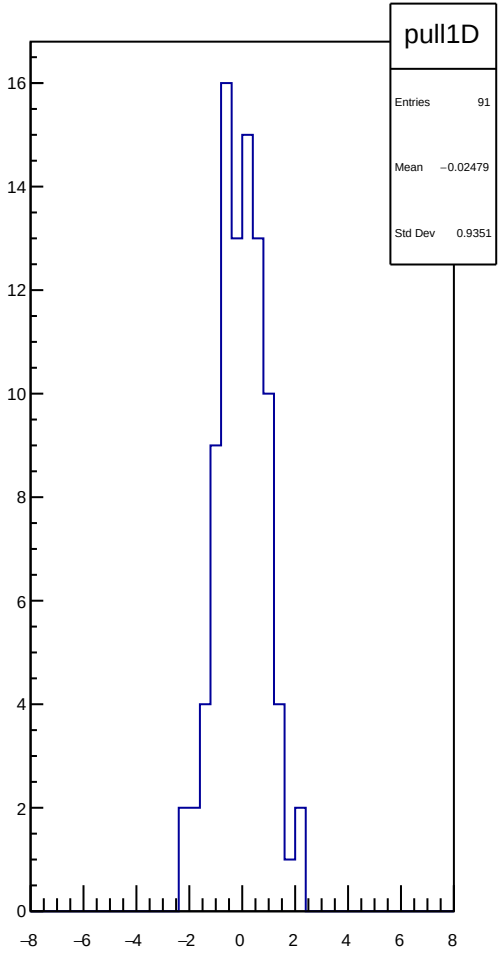

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.22 / 90
p0 3.618e−14 ± 4.054e−14
pull
Entries 91
Mean 28.58
Std Dev 23.82

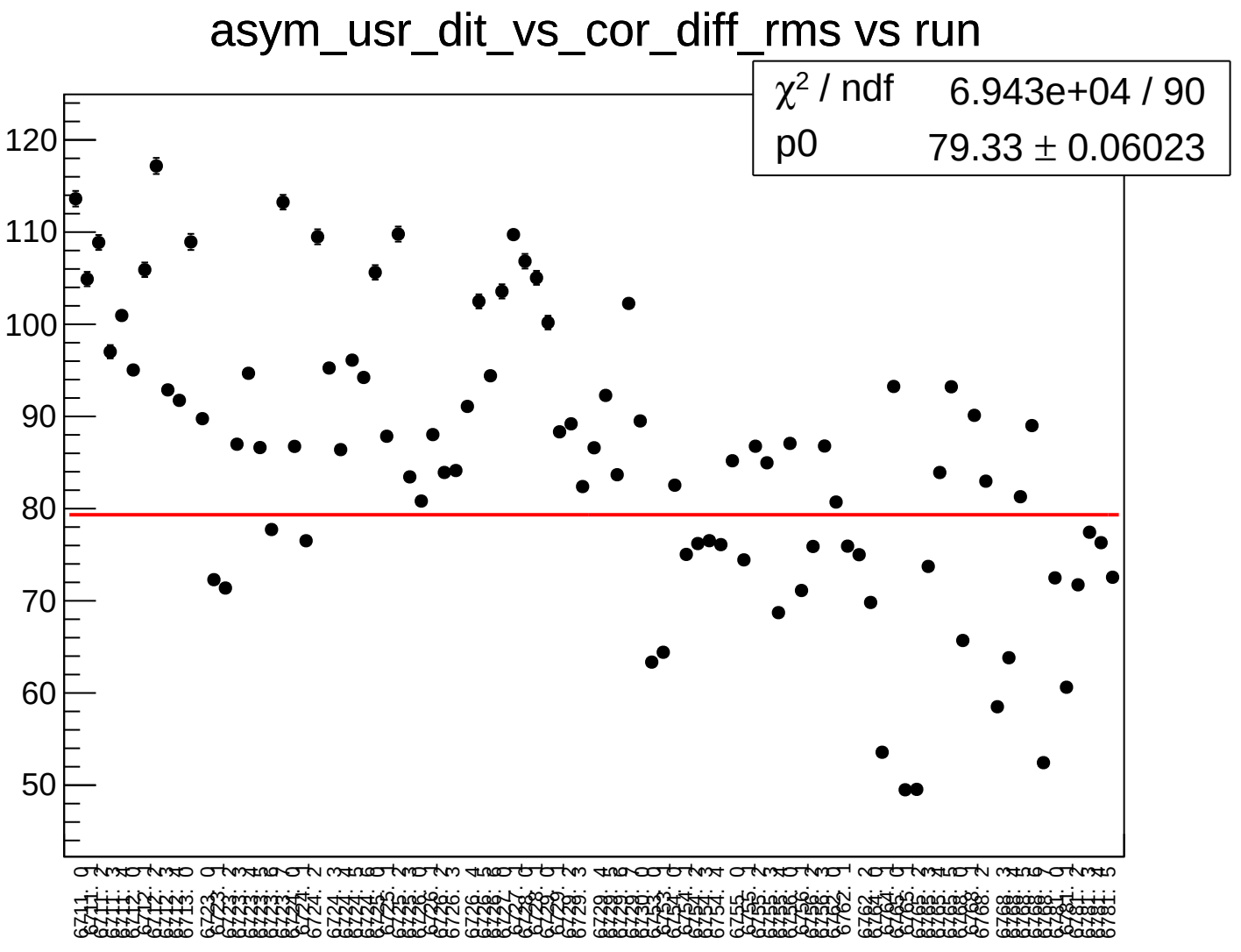

pull1D
Entries 91
Mean 0.144
Std Dev 0.9337

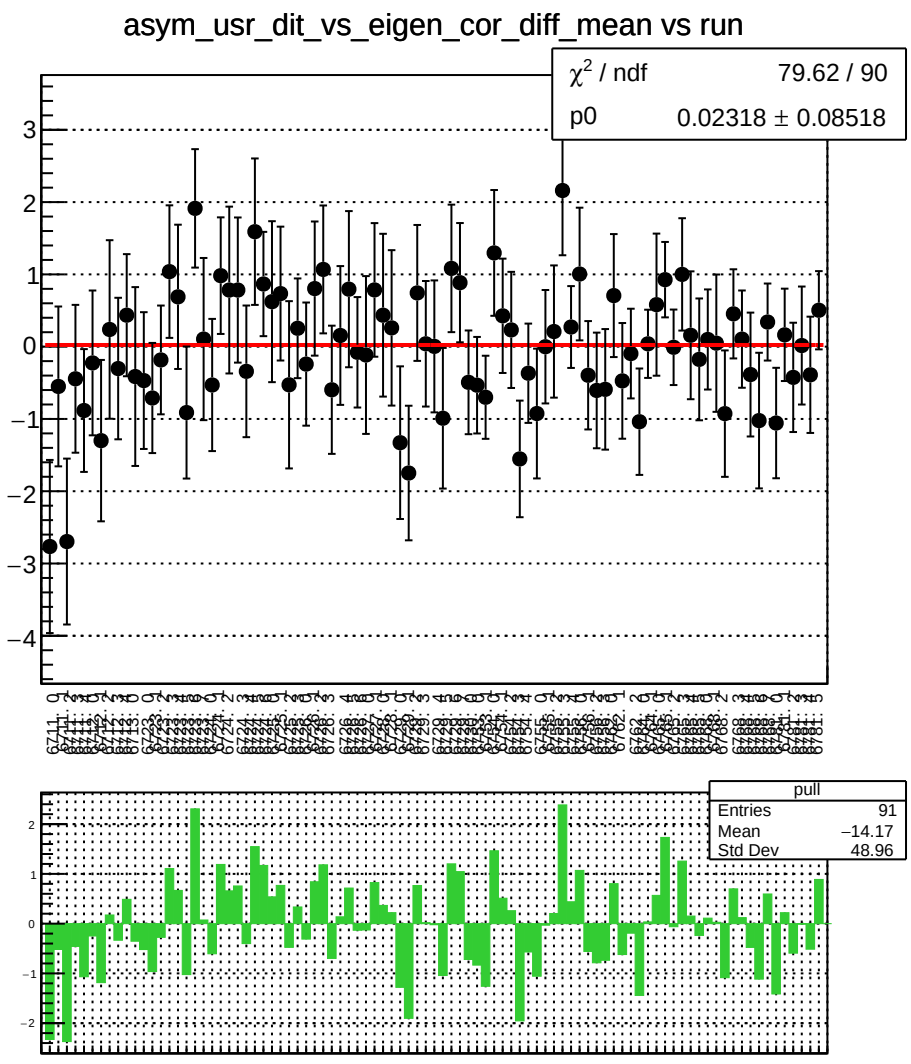
asym_usr_reg_vs_cor_diff_rms vs run

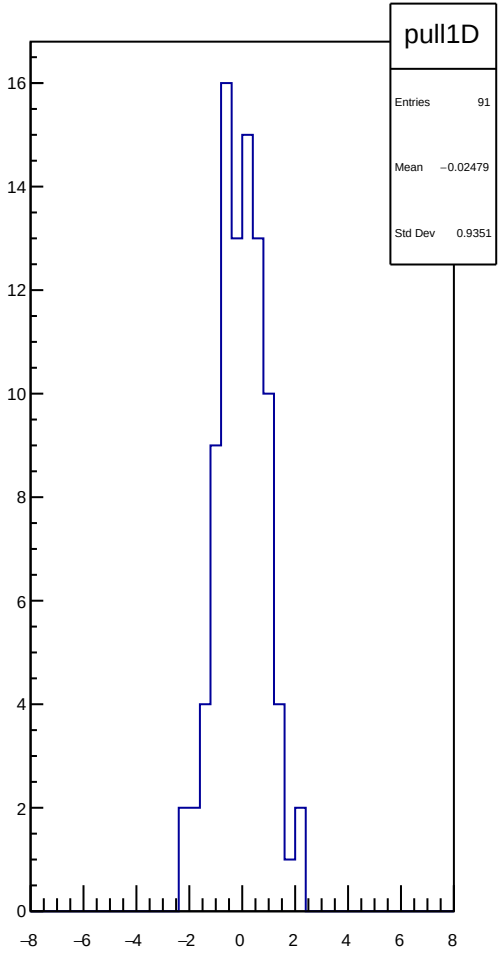


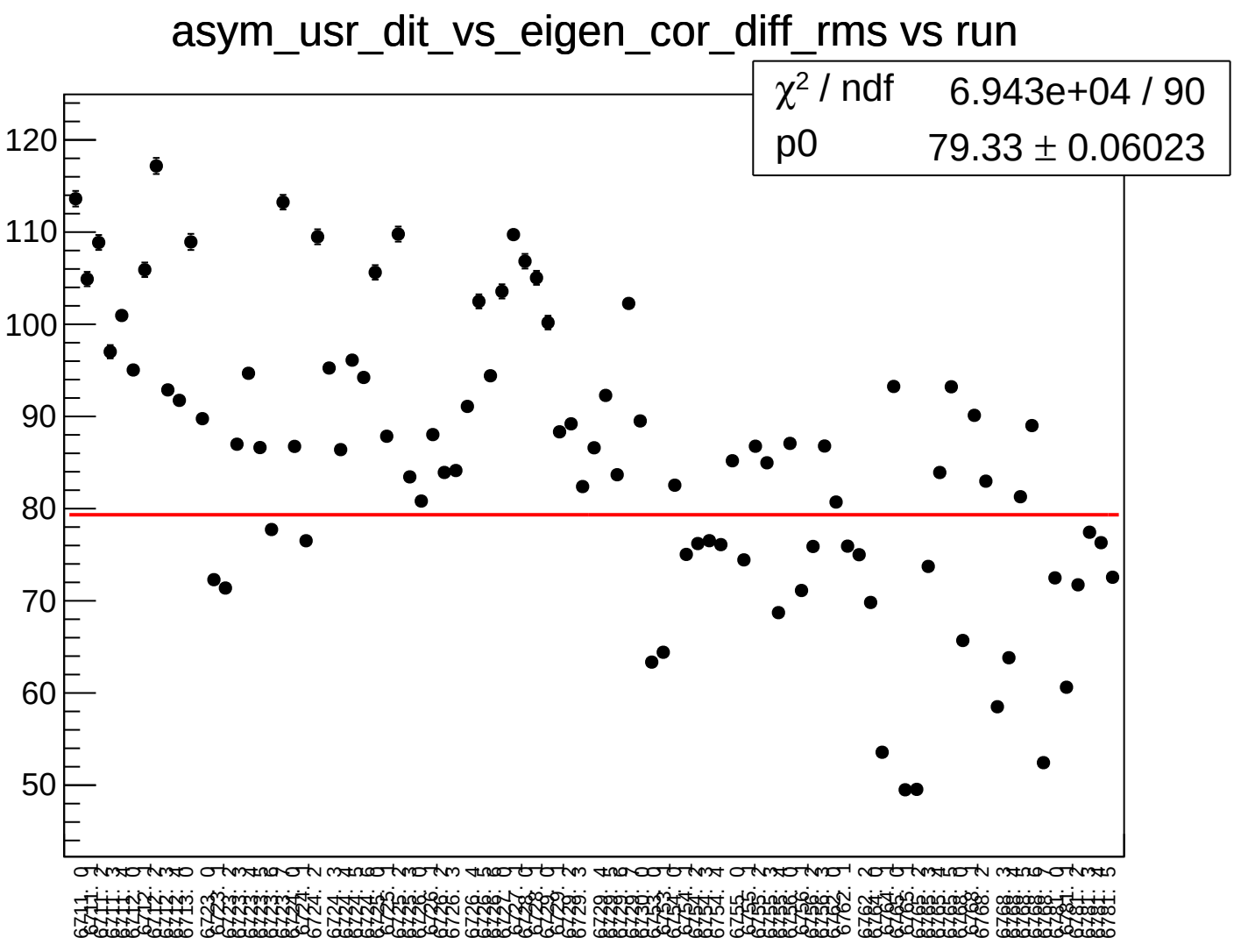

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 79.62 / 90
p0 0.02318 ± 0.08518
pull
Entries 91
Mean −14.17
Std Dev 48.96

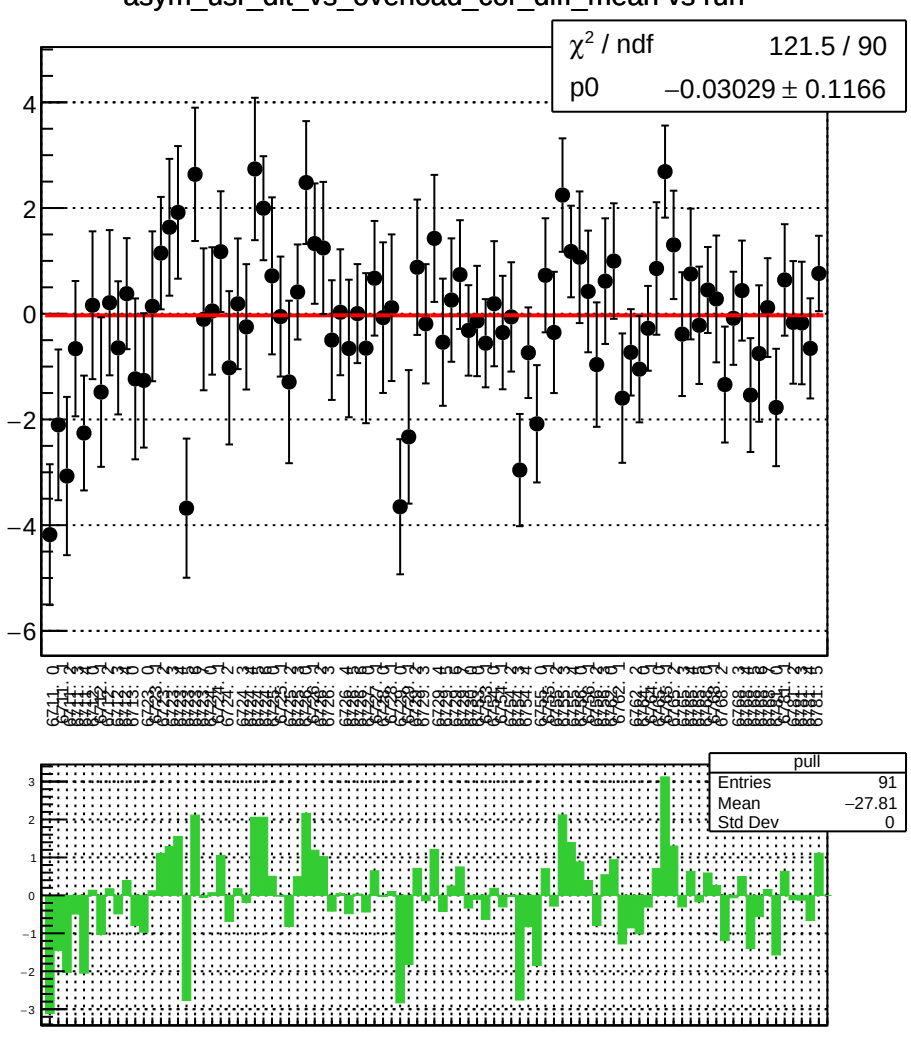

pull1D
Entries 91
Mean −0.02479
Std Dev 0.9351

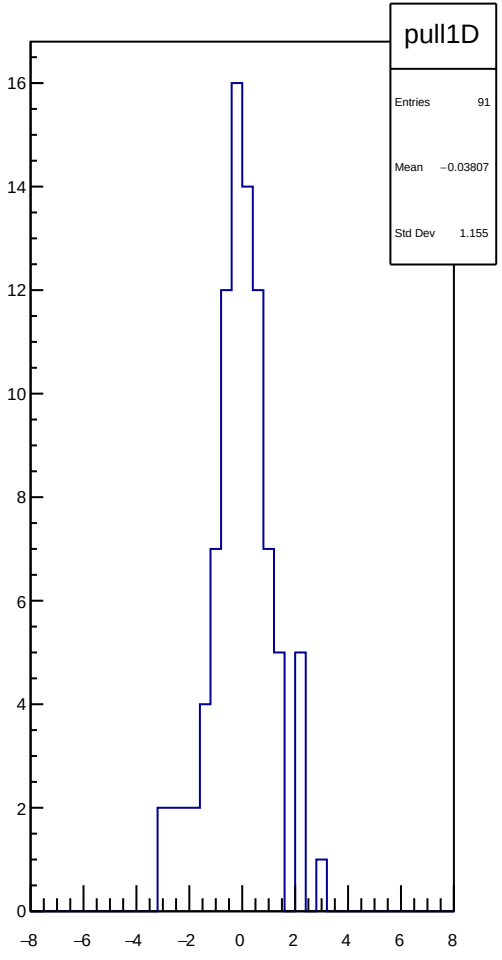

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 6.943e+04 / 90
p0 79.33 ± 0.06023
120
110
100
90
80
70
60
50

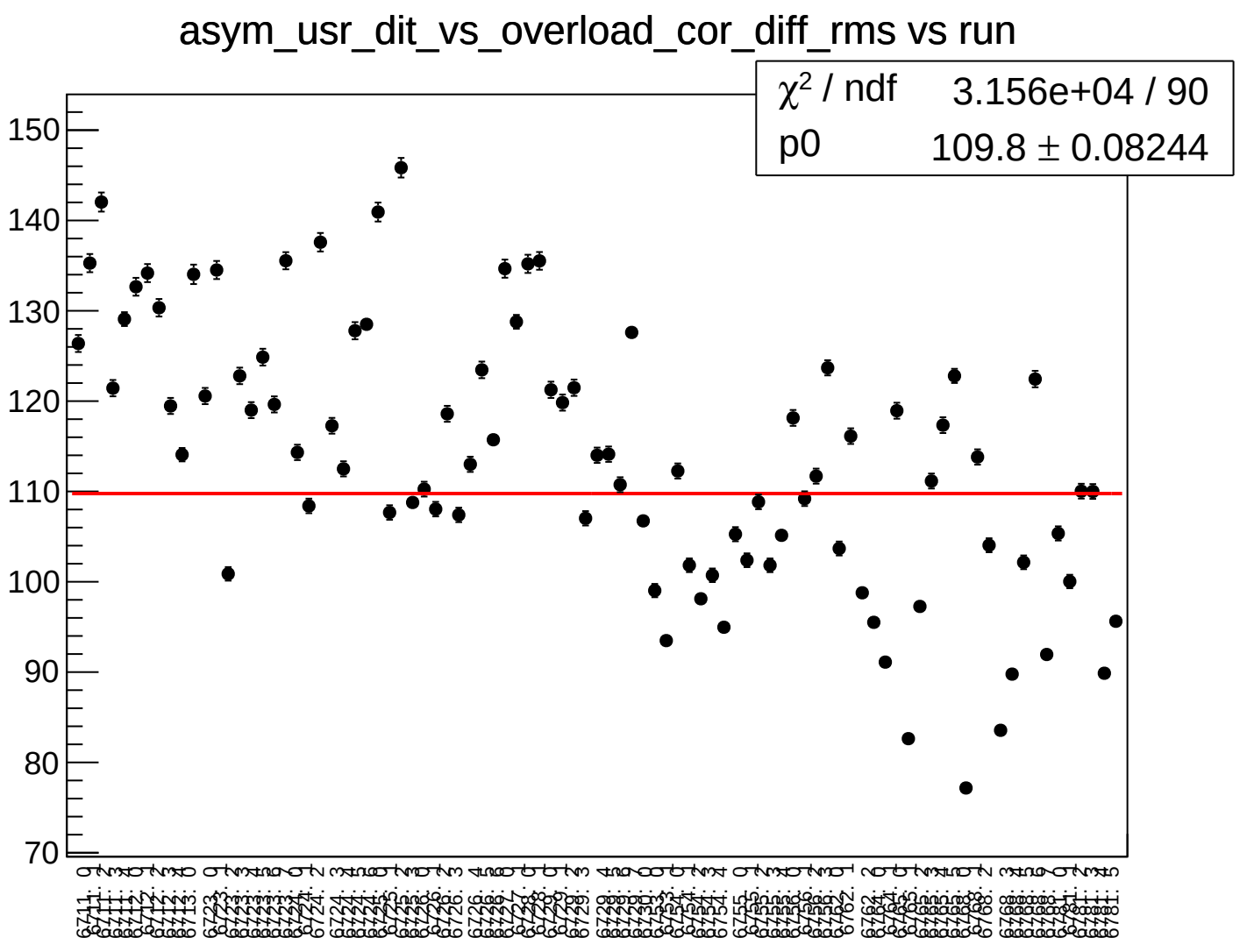

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.62 / 90
p0 0.02318 ± 0.08518
pull
Entries 91
Mean −14.17
Std Dev 48.96

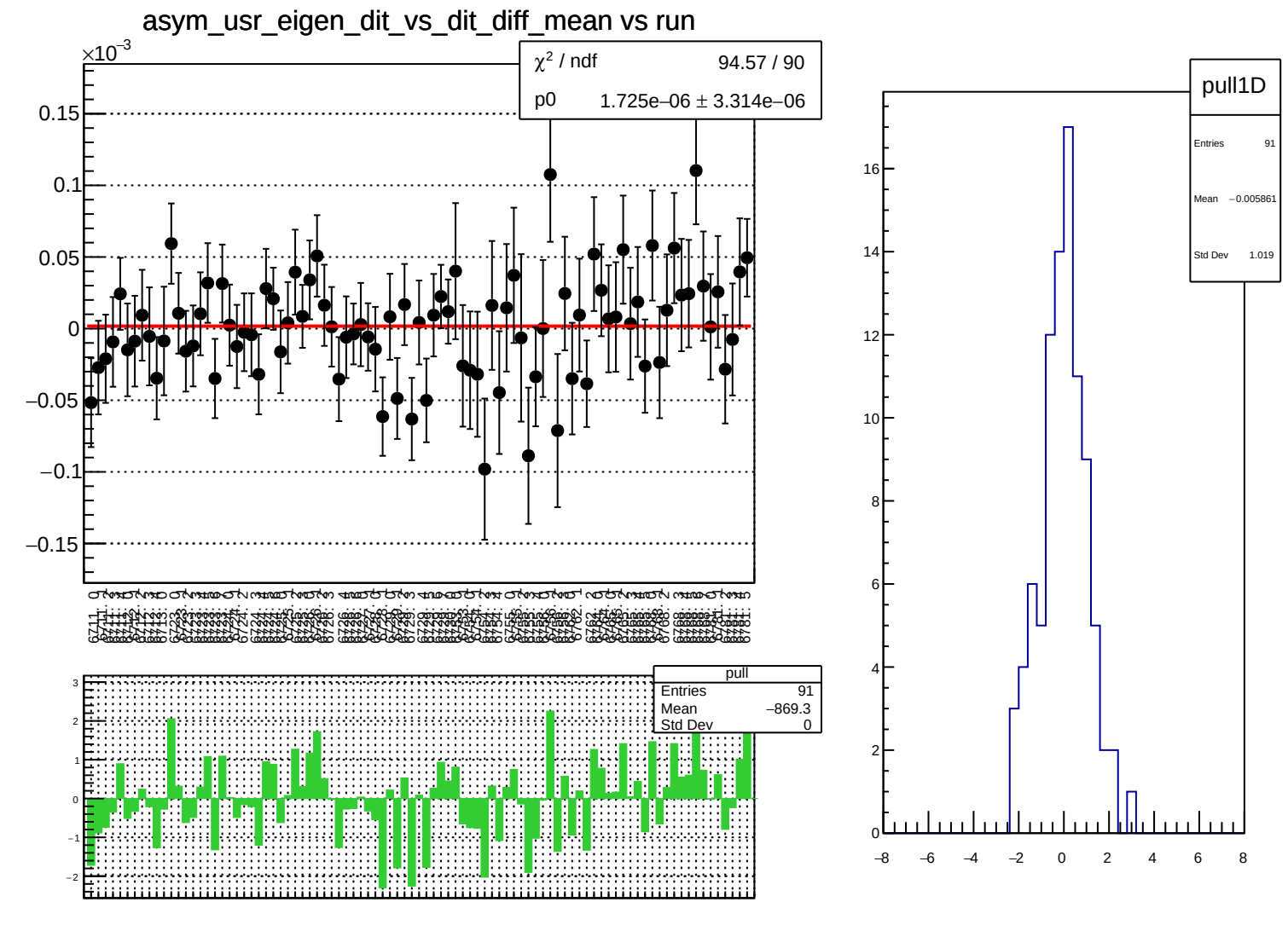

pull1D
Entries 91
Mean −0.02479
Std Dev 0.9351

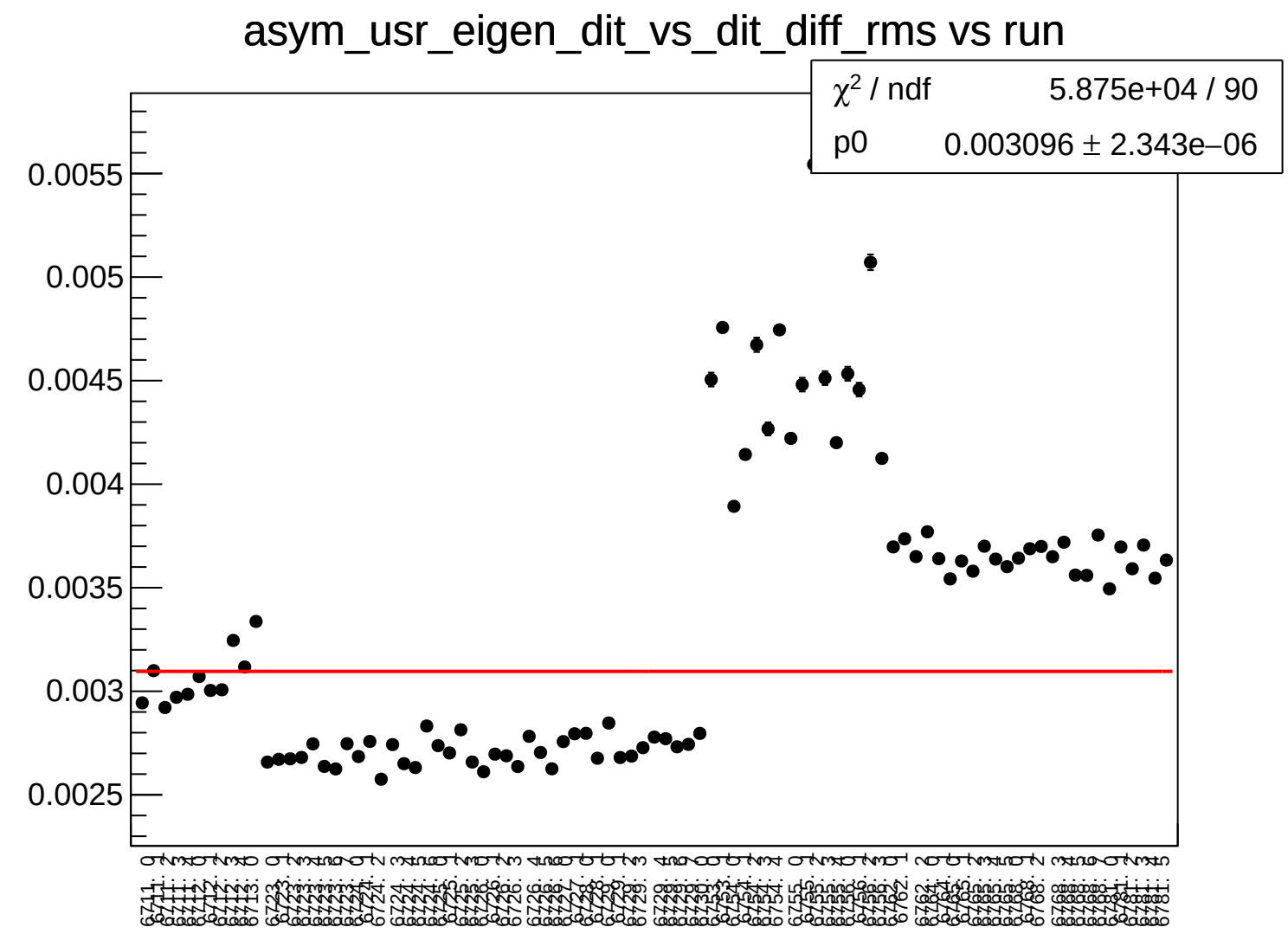

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.943e+04 / 90
p0 79.33 ± 0.06023
120
110
100
90
80
70
60
50

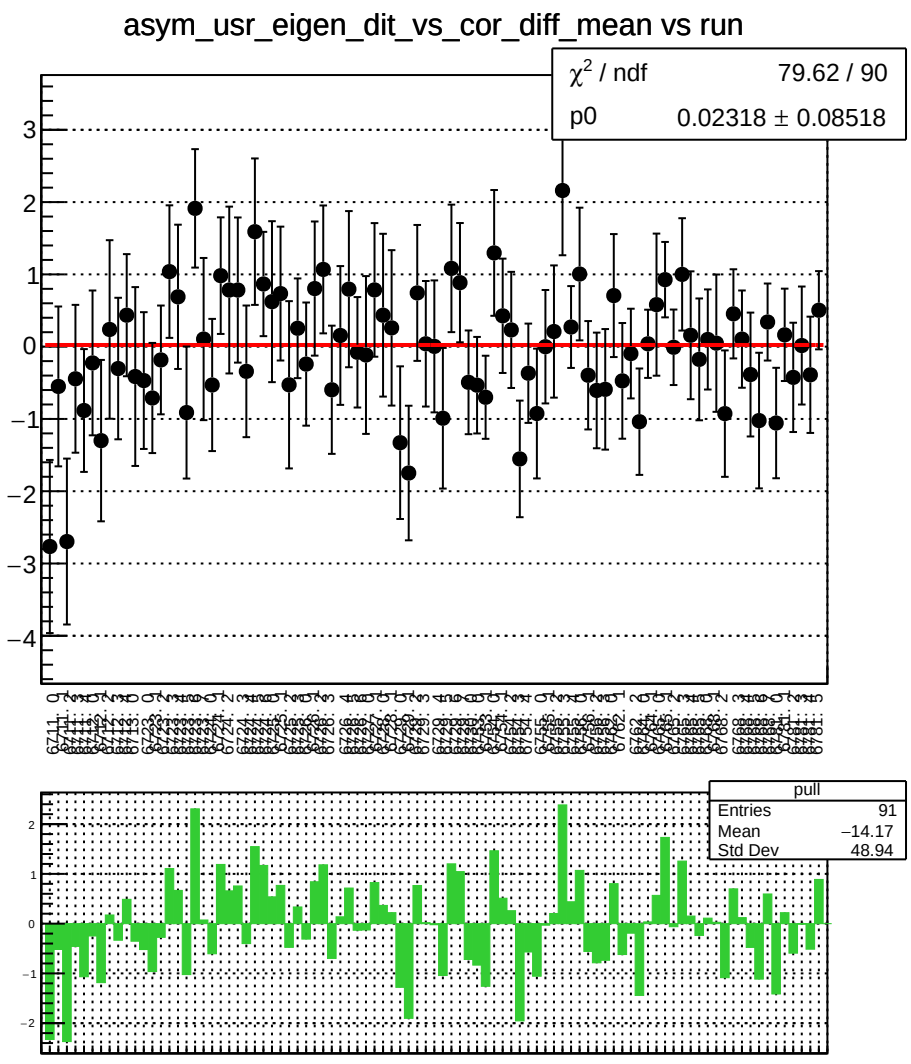

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 121.5 / 90
p0 −0.03029 ± 0.1166
pull
Entries 91
Mean −27.81
Std Dev 0

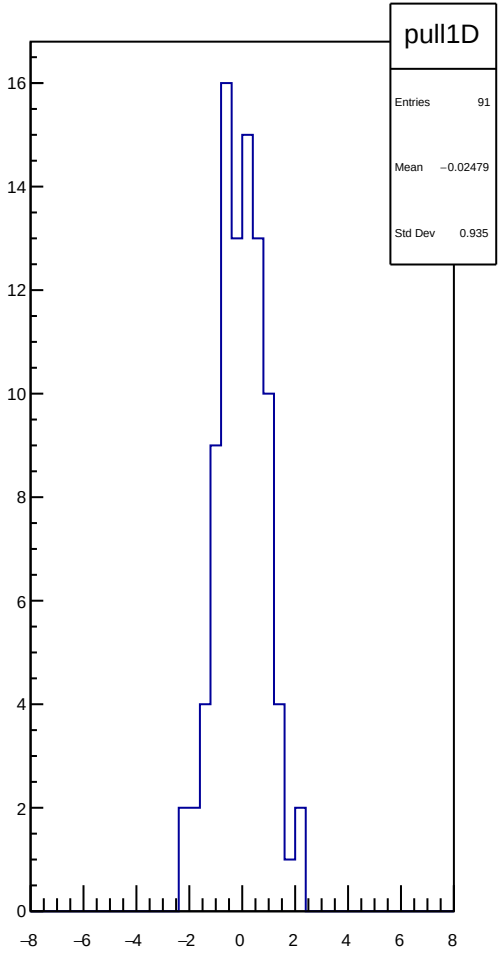

pull1D
Entries 91
Mean −0.03807
Std Dev 1.155

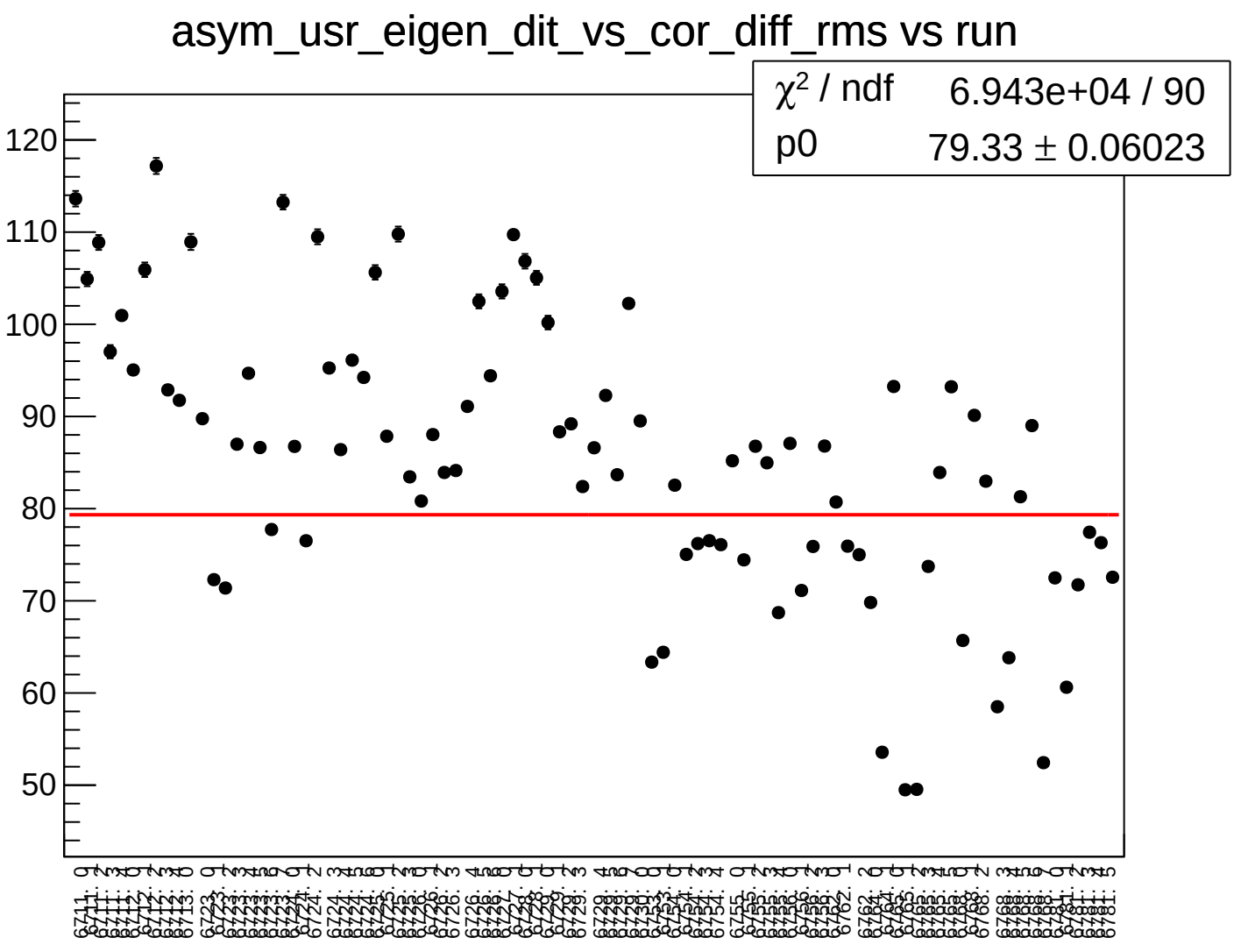

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.156e+04 / 90
p0 109.8 ± 0.08244
150
140
130
120
110
100
90
80
70

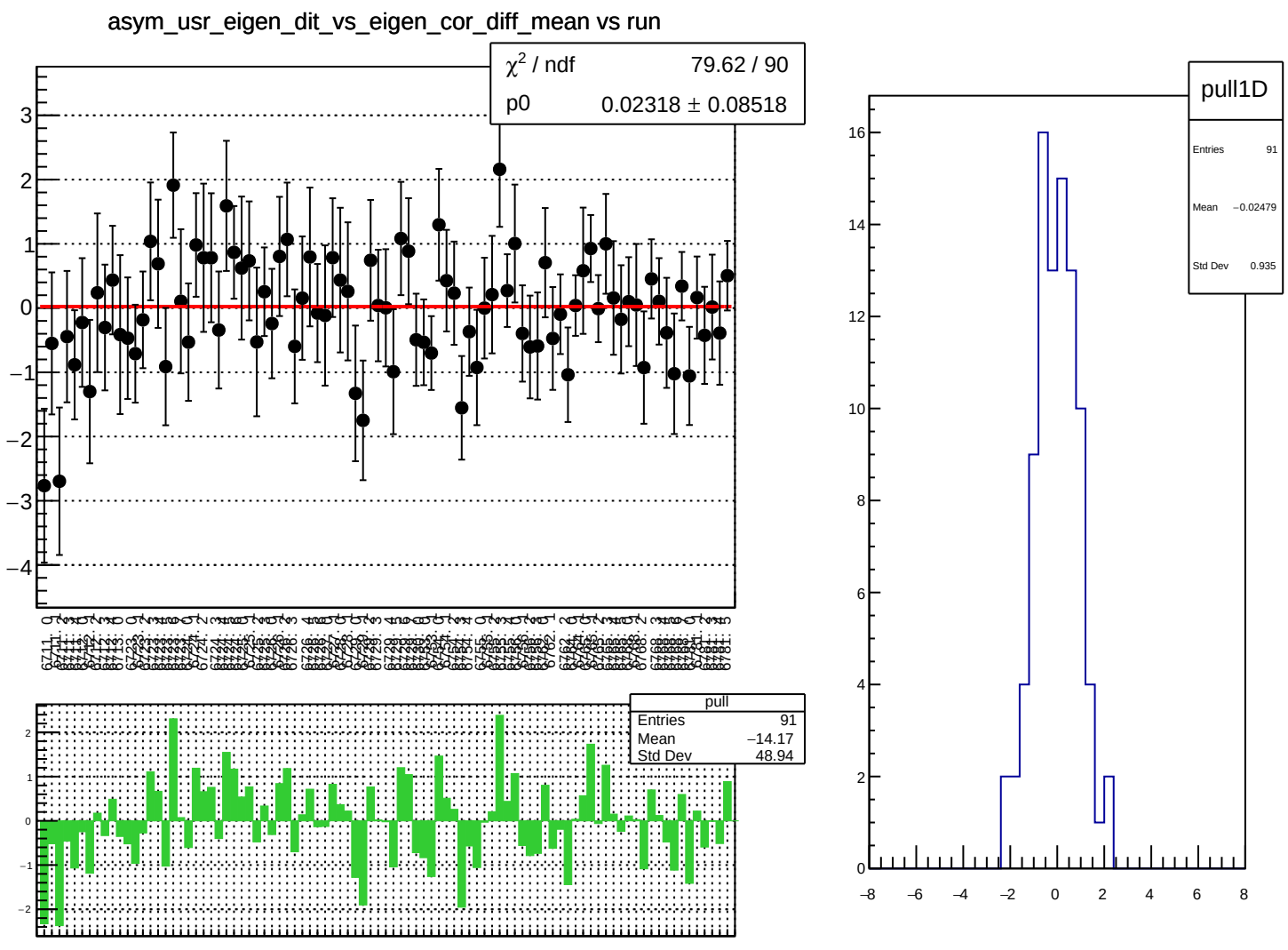

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.57 / 90
p0 1.725e−06 ± 3.314e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean −869.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.005861
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

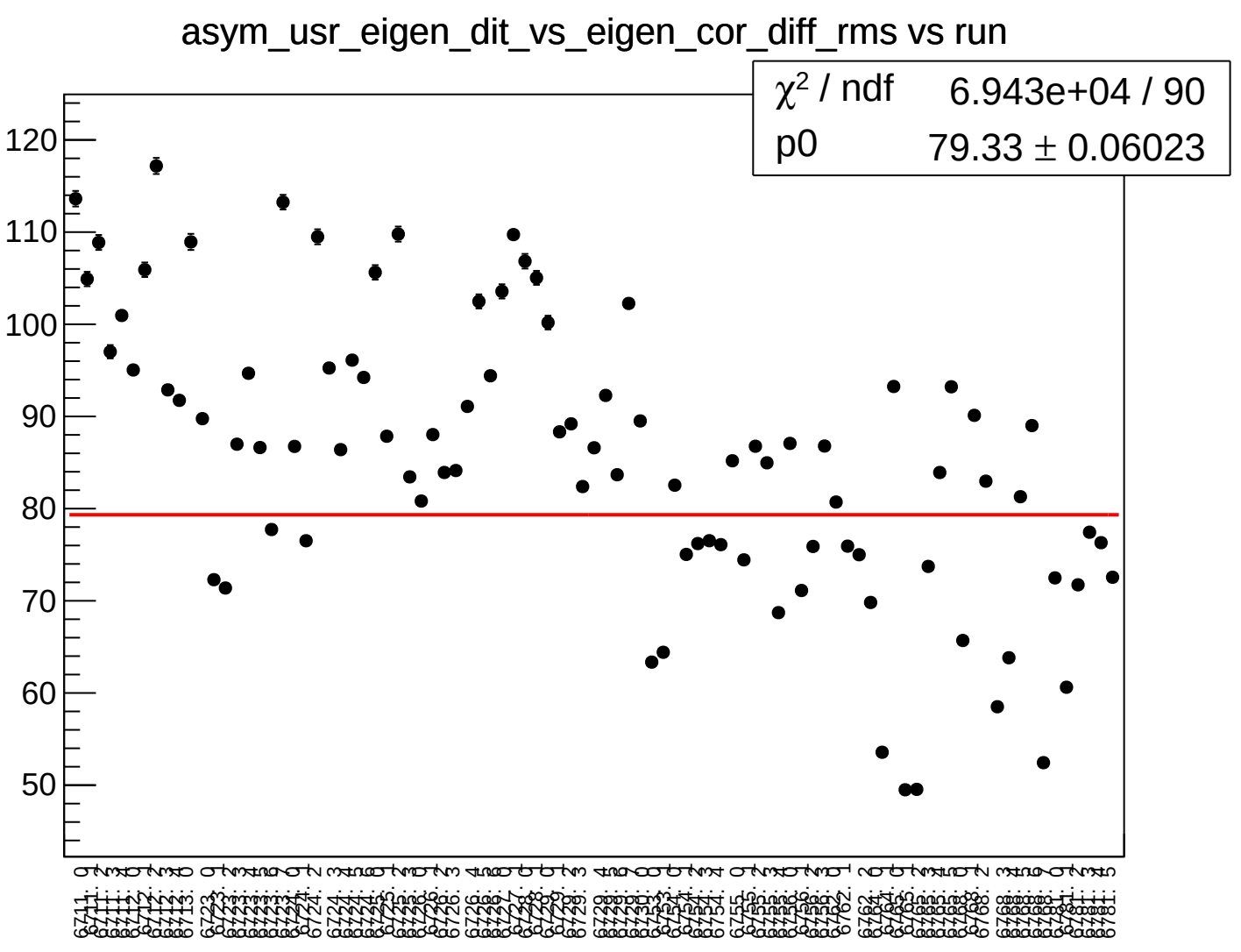

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.875e+04 / 90
p0 0.003096 ± 2.343e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

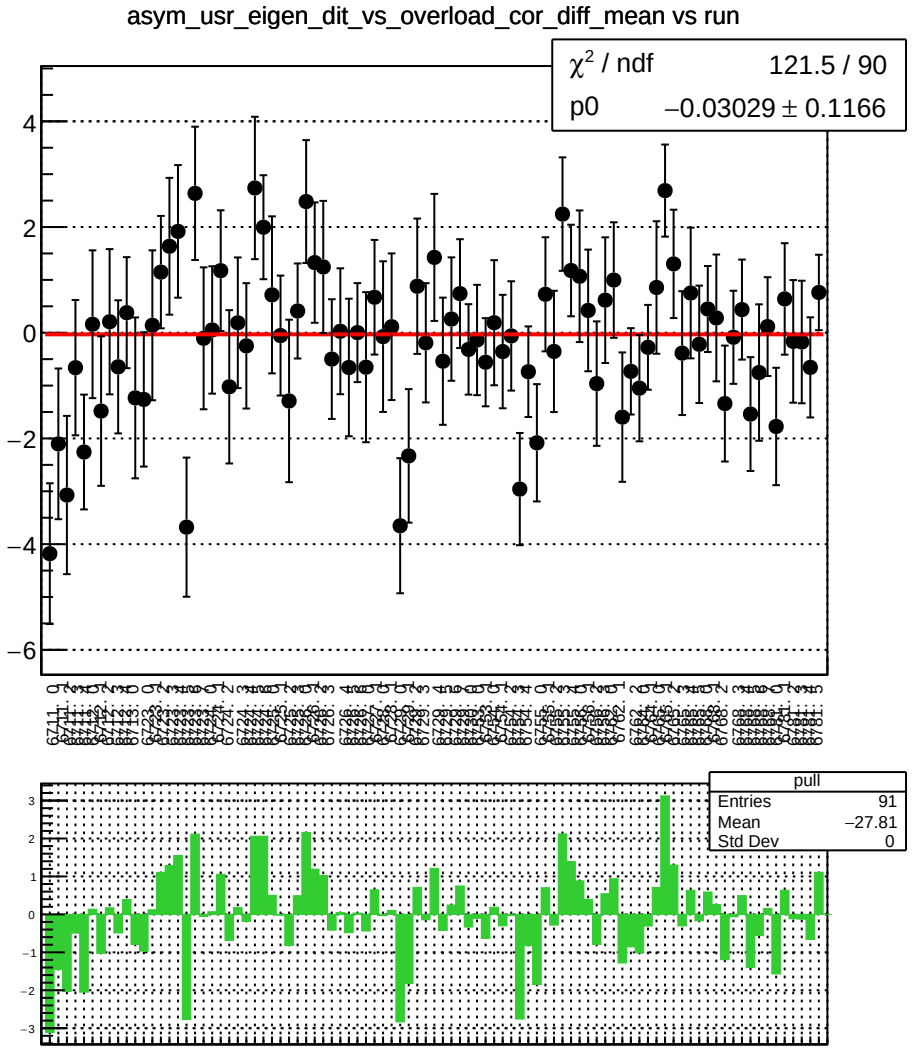

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.62 / 90
p0 0.02318 ± 0.08518
pull
Entries 91
Mean −14.17
Std Dev 48.94

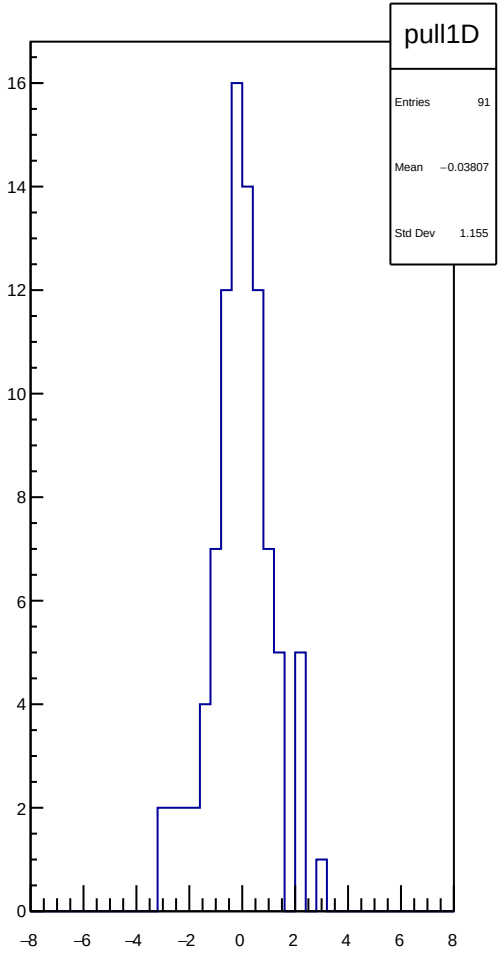

pull1D
Entries 91
Mean −0.02479
Std Dev 0.935

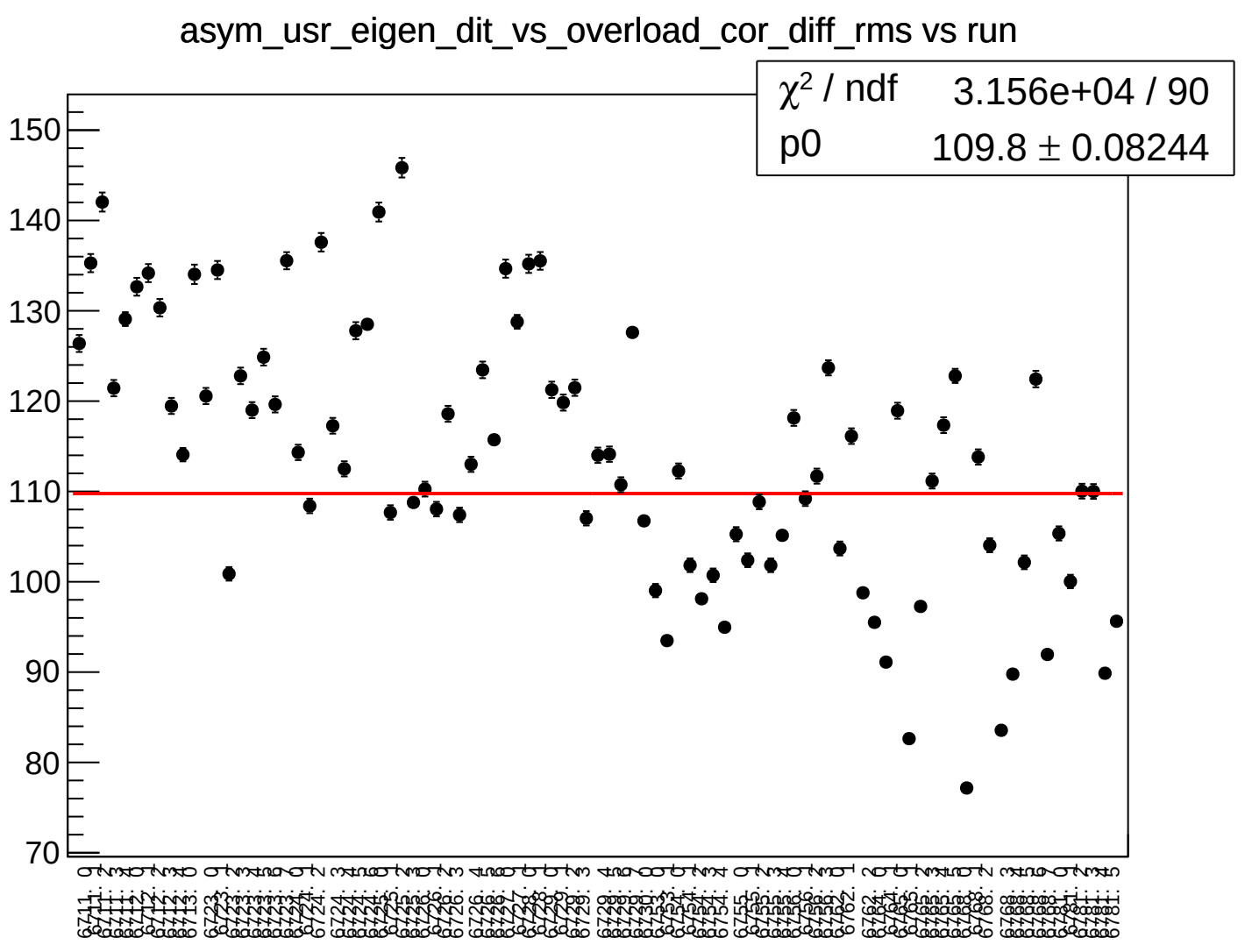

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.943e+04 / 90
p0 79.33 ± 0.06023
120
110
100
90
80
70
60
50

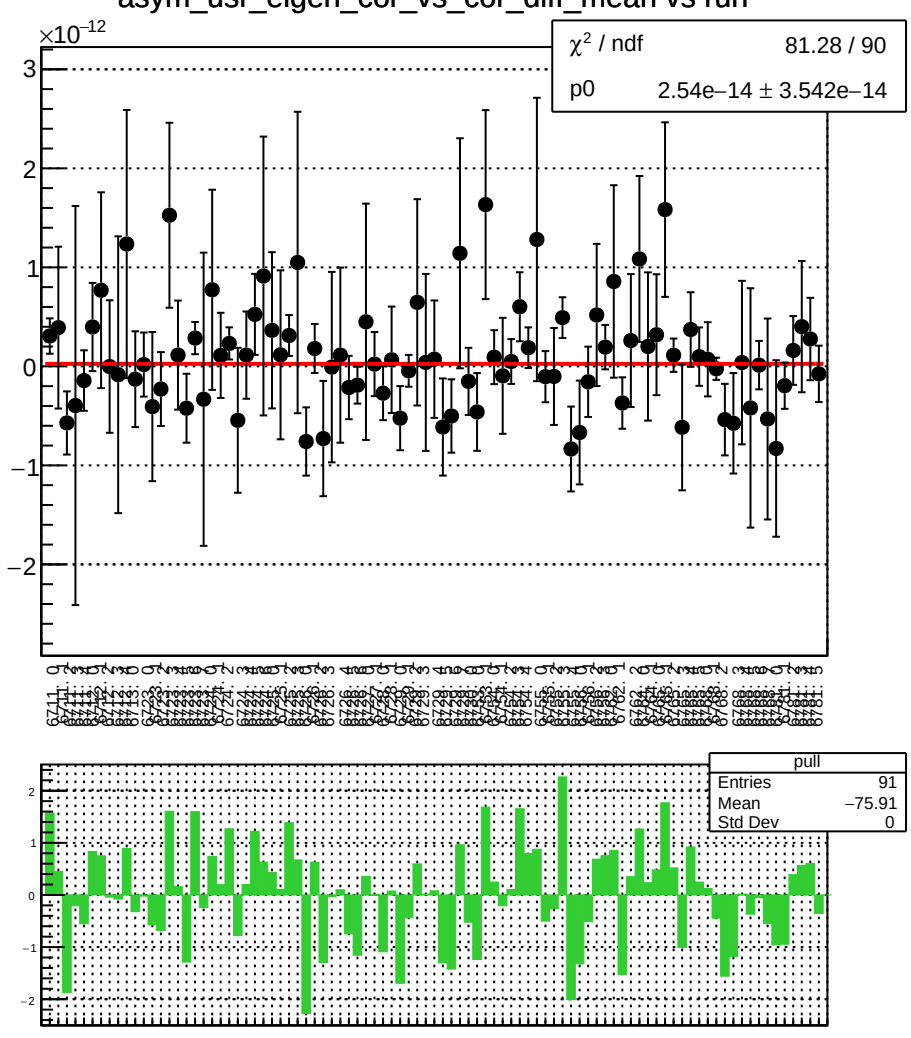

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.62 / 90
p0 0.02318 ± 0.08518
pull
Entries 91
Mean −14.17
Std Dev 48.94
pull1D
Entries 91
Mean −0.02479
Std Dev 0.935

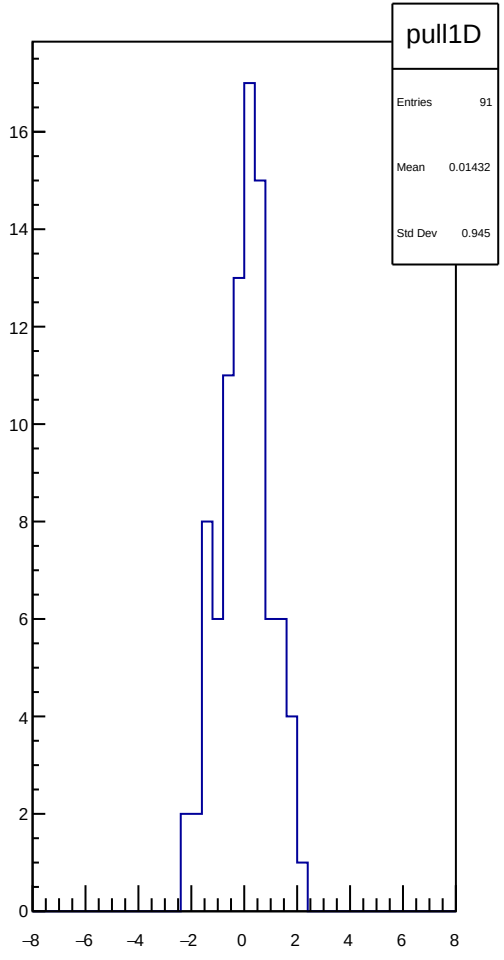

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.943e+04 / 90
p0 79.33 ± 0.06023
120
110
100
90
80
70
60
50

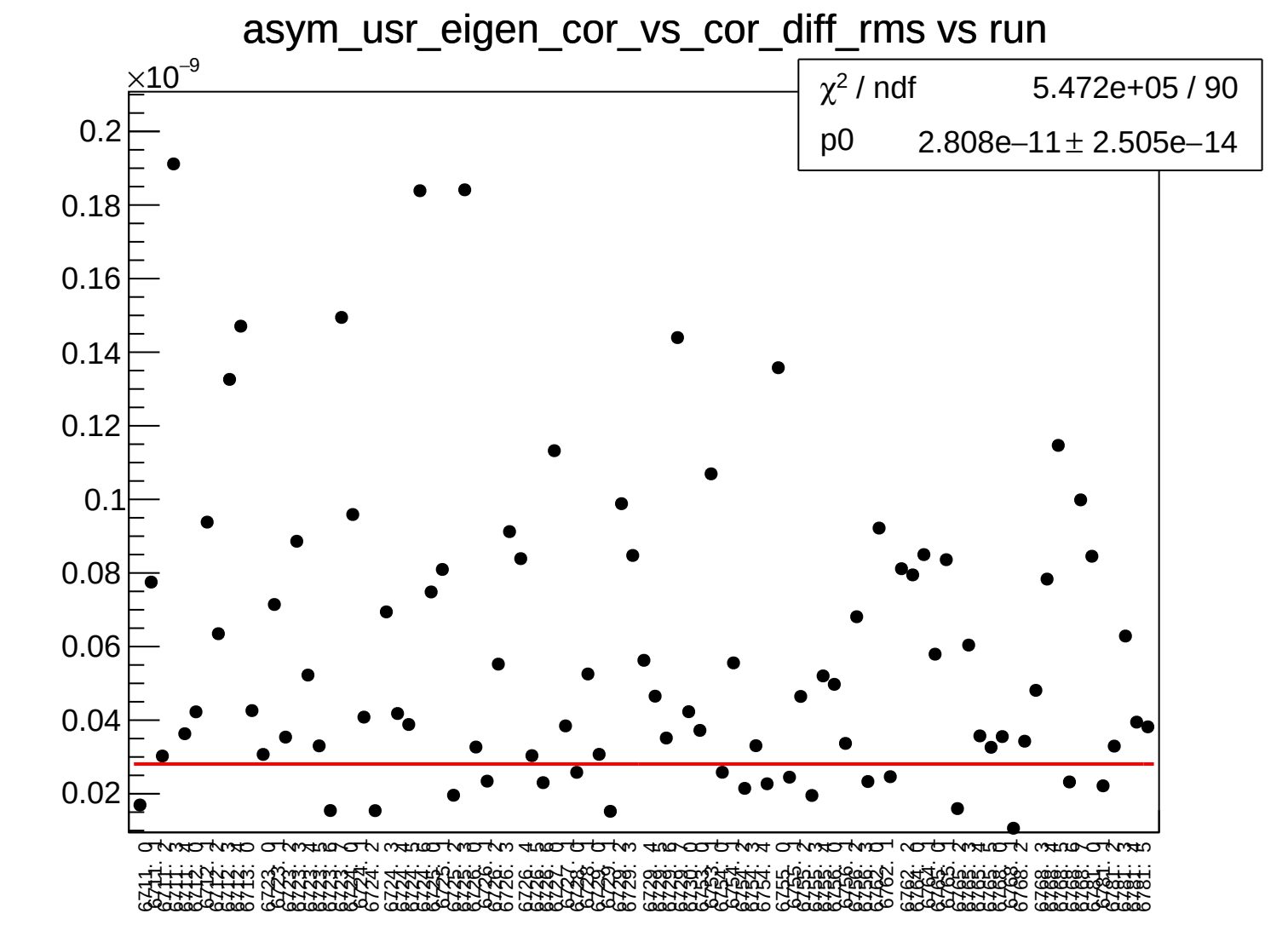

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 121.5 / 90
p0 −0.03029 ± 0.1166
pull
Entries 91
Mean −27.81
Std Dev 0

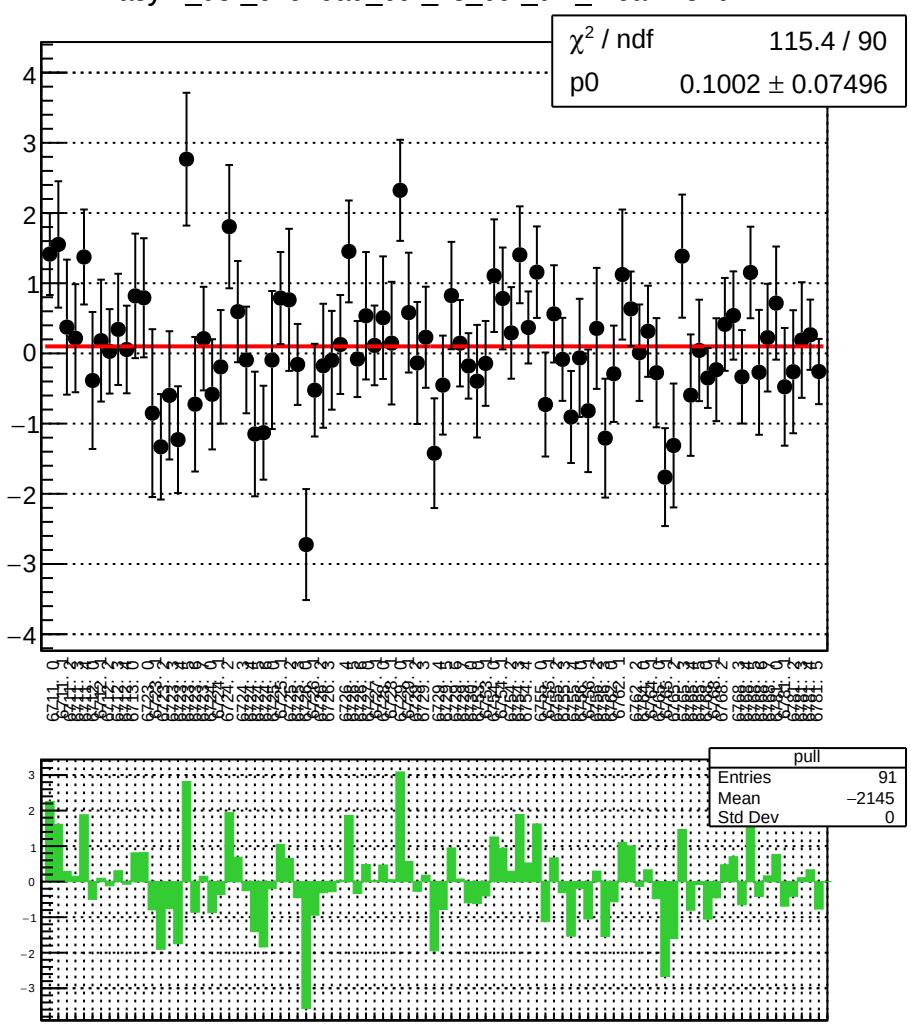

pull1D
Entries 91
Mean −0.03807
Std Dev 1.155

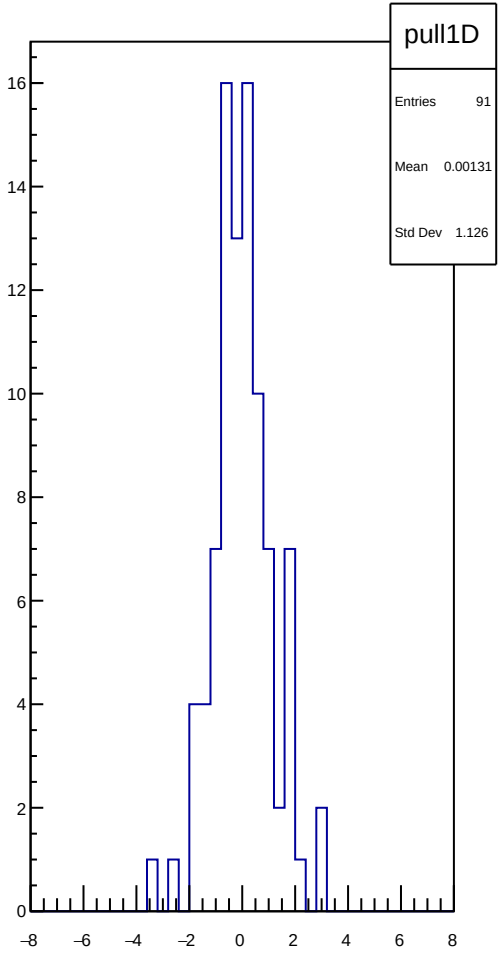

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.156e+04 / 90
p0 109.8 ± 0.08244
150
140
130
120
110
100
90
80
70

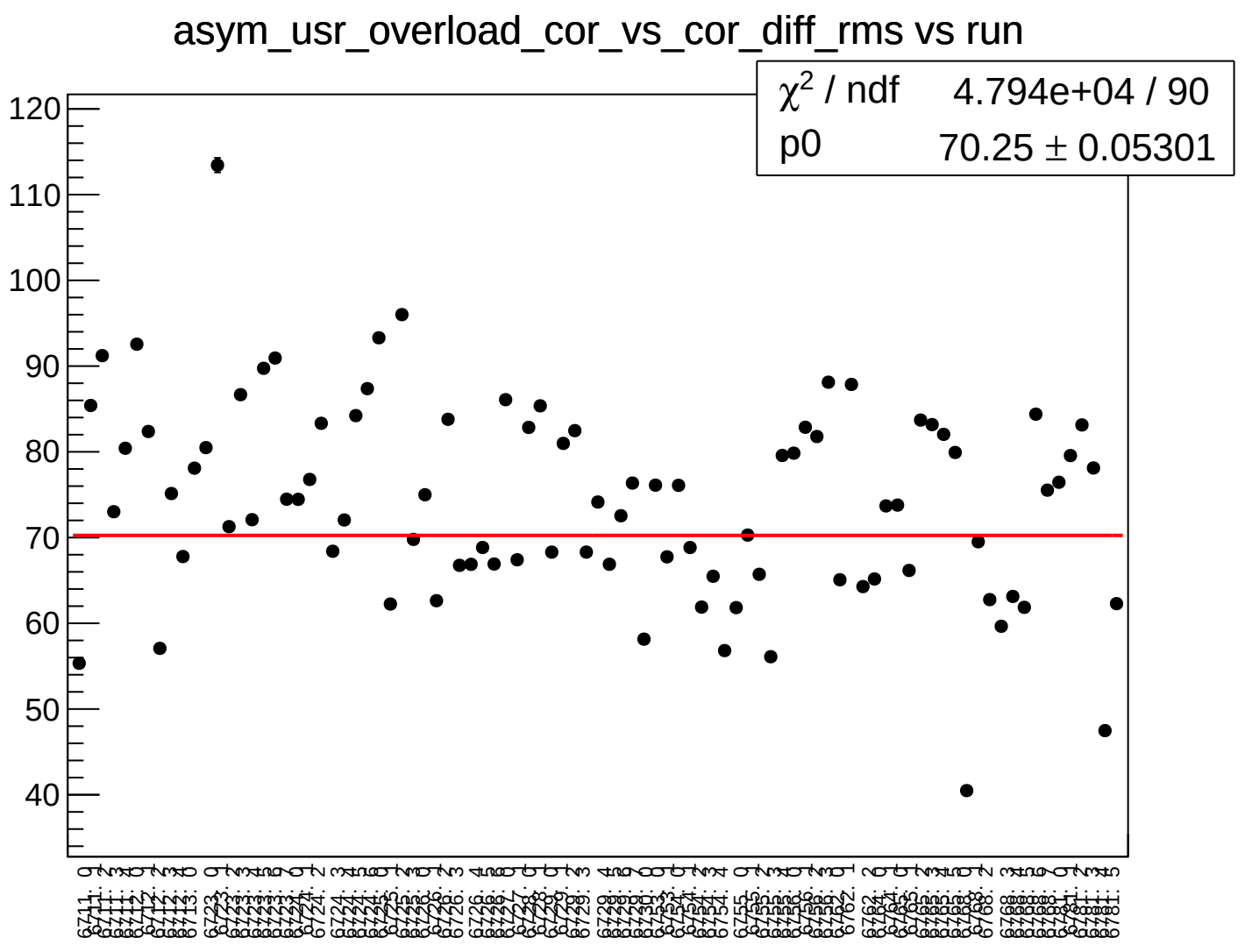

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.28 / 90
p0 2.54e−14 ± 3.542e−14
pull
Entries 91
Mean −75.91
Std Dev 0

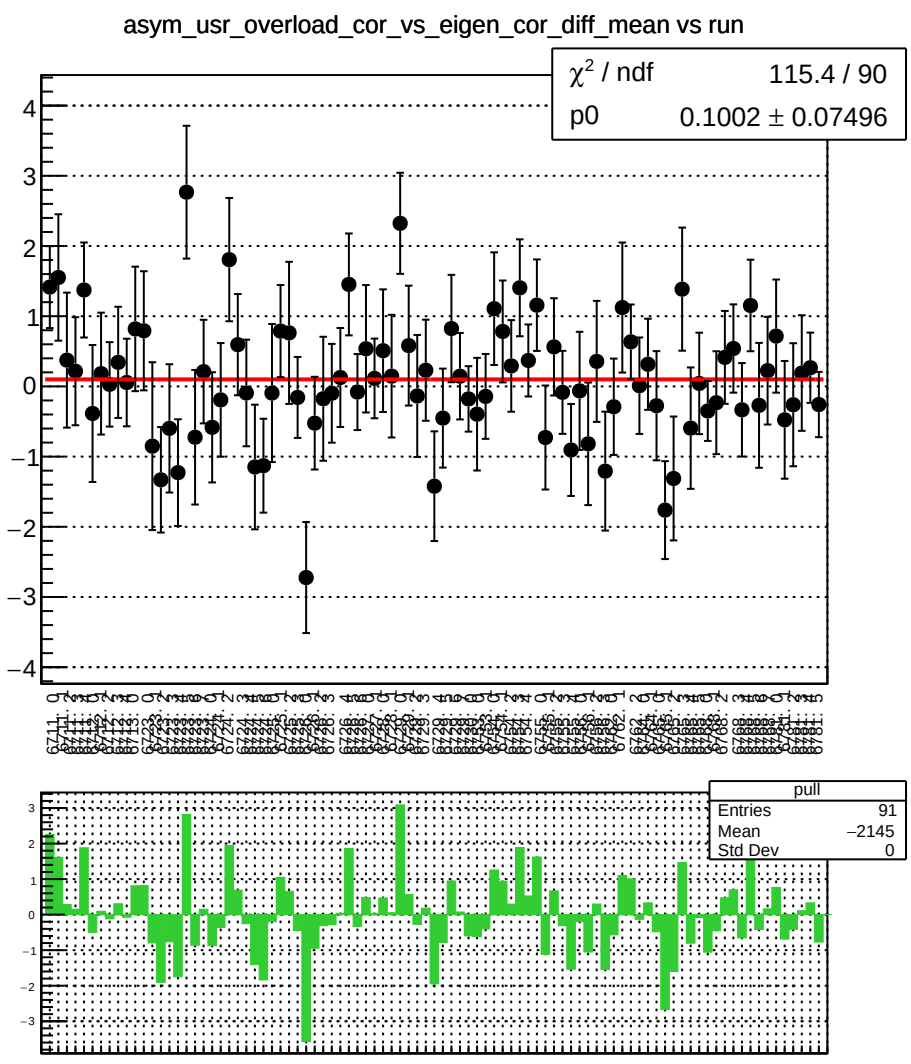

pull1D
Entries 91
Mean 0.01432
Std Dev 0.945

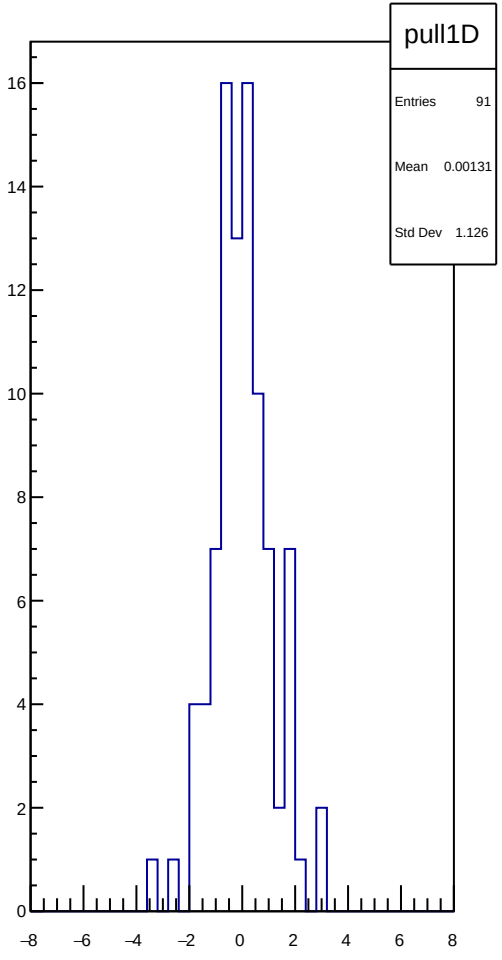

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.472e+05 / 90
p0 2.808e−11 ± 2.505e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

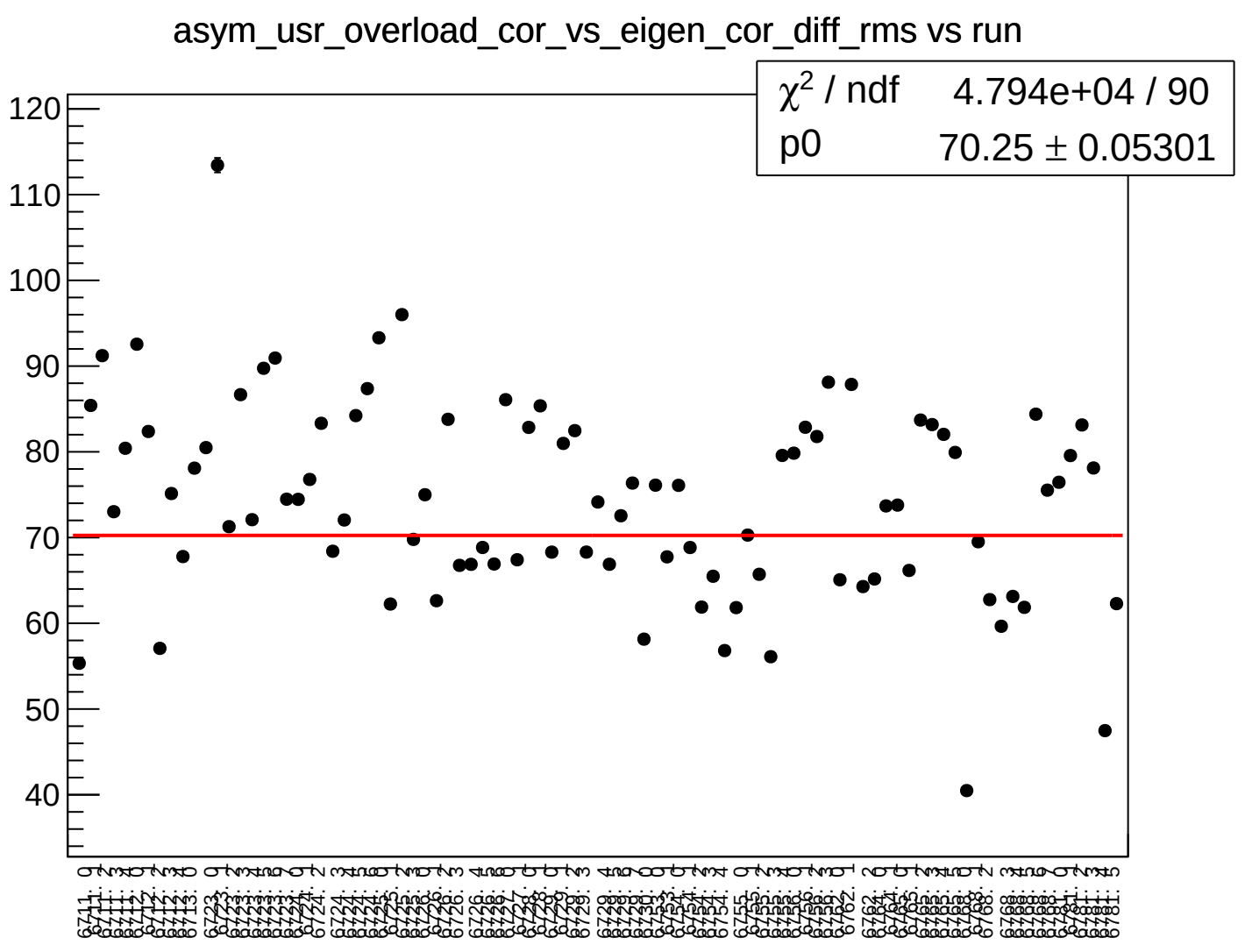

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 115.4 / 90
p0 0.1002 ± 0.07496
pull
Entries 91
Mean −2145
Std Dev 0

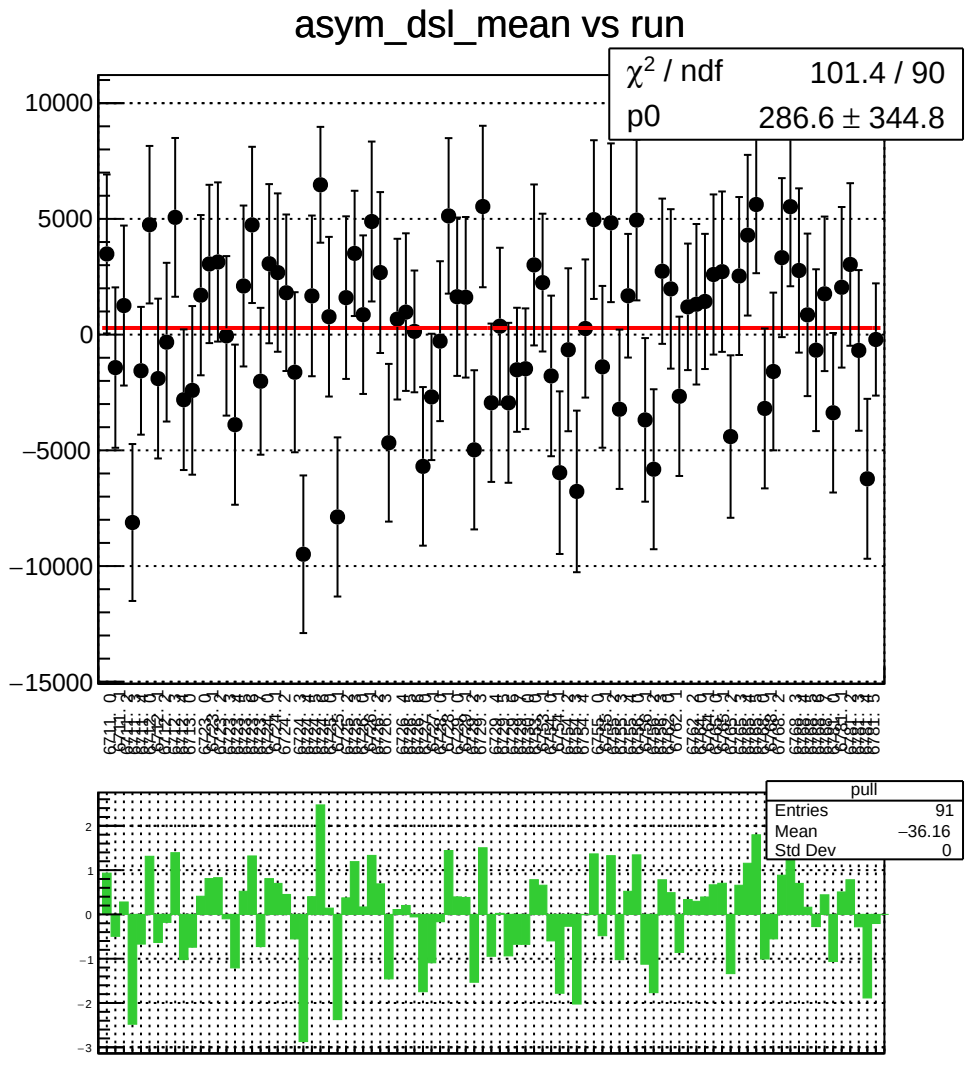

pull1D
Entries 91
Mean 0.00131
Std Dev 1.126

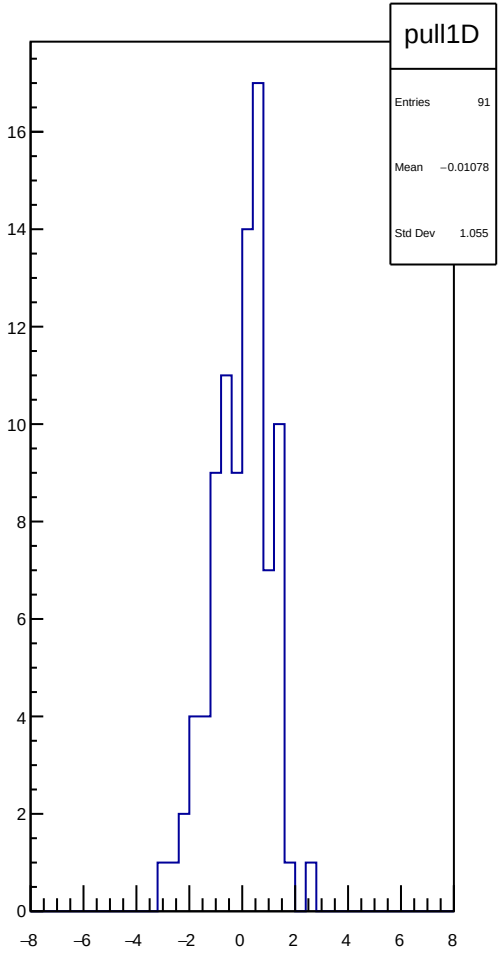

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 4.794e+04 / 90
p0 70.25 ± 0.05301
120
110
100
90
80
70
60
50
40

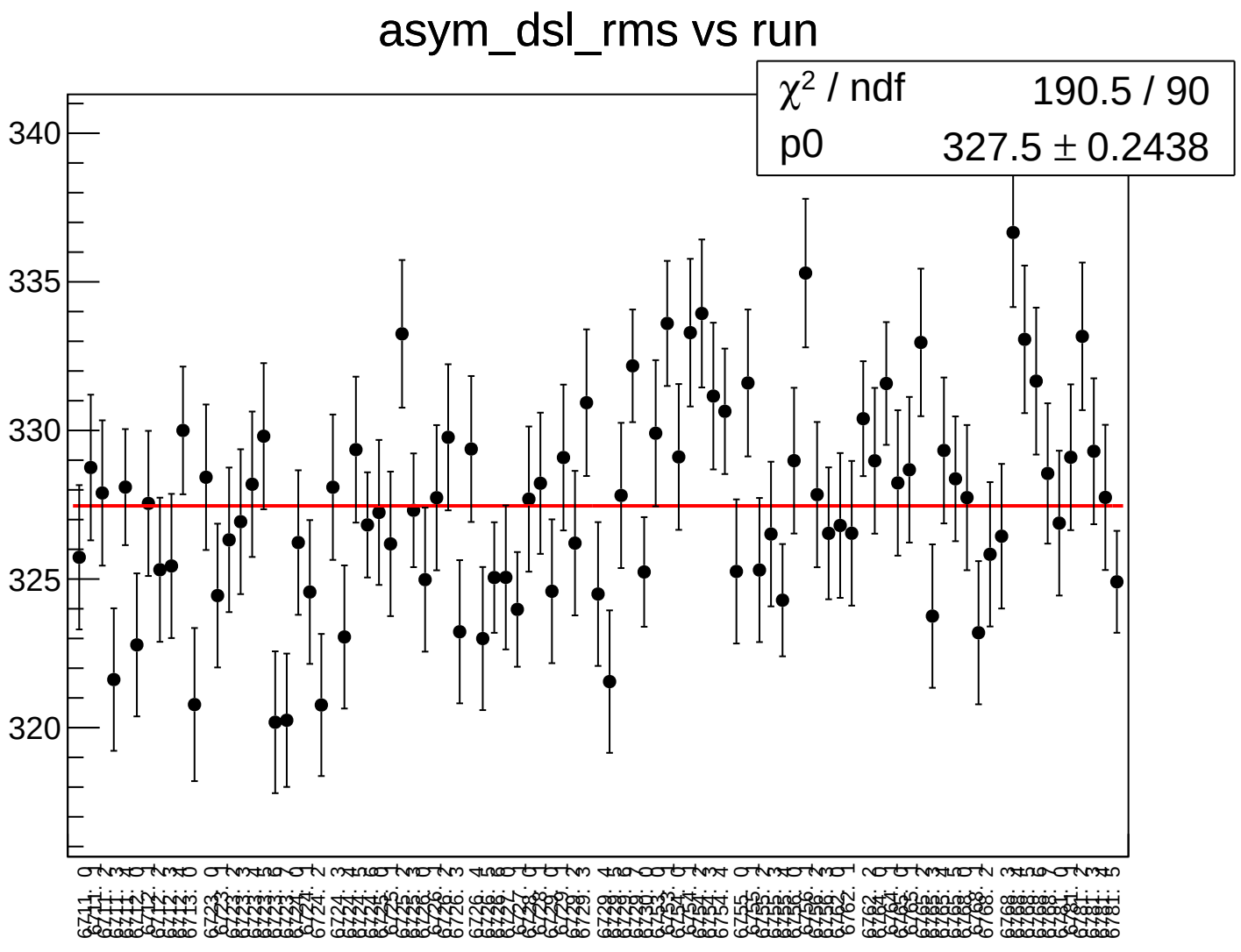

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.4 / 90
p0 0.1002 ± 0.07496
pull
Entries 91
Mean −2145
Std Dev 0

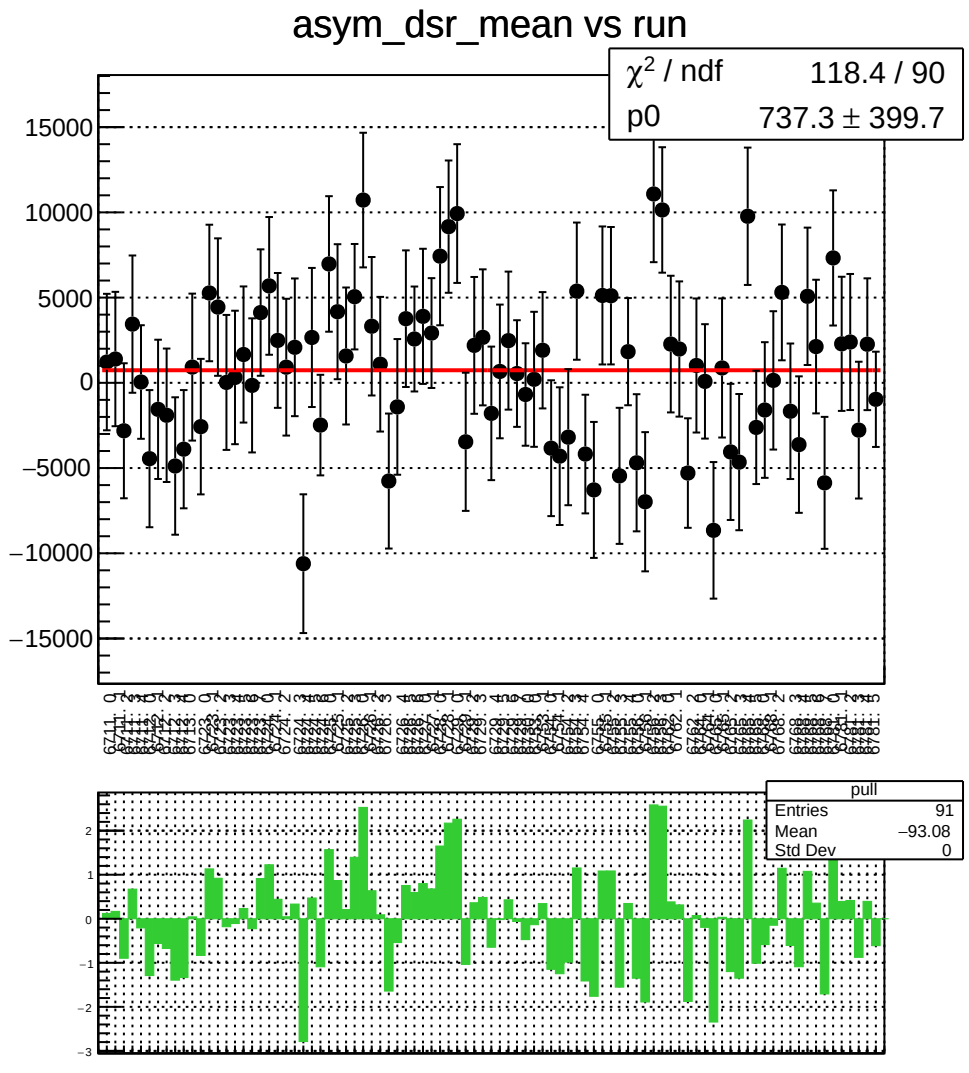

pull1D
Entries 91
Mean 0.00131
Std Dev 1.126

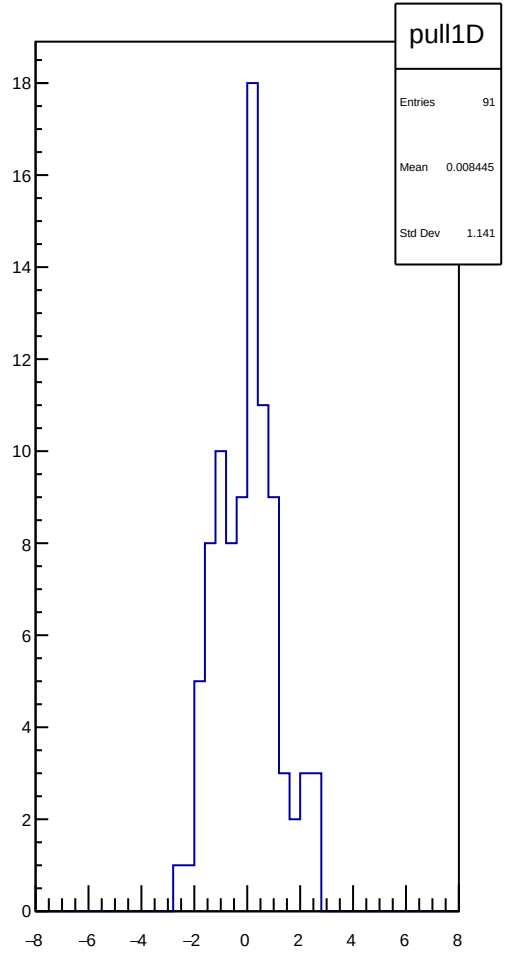

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.794e+04 / 90
p0 70.25 ± 0.05301
120
110
100
90
80
70
60
50
40

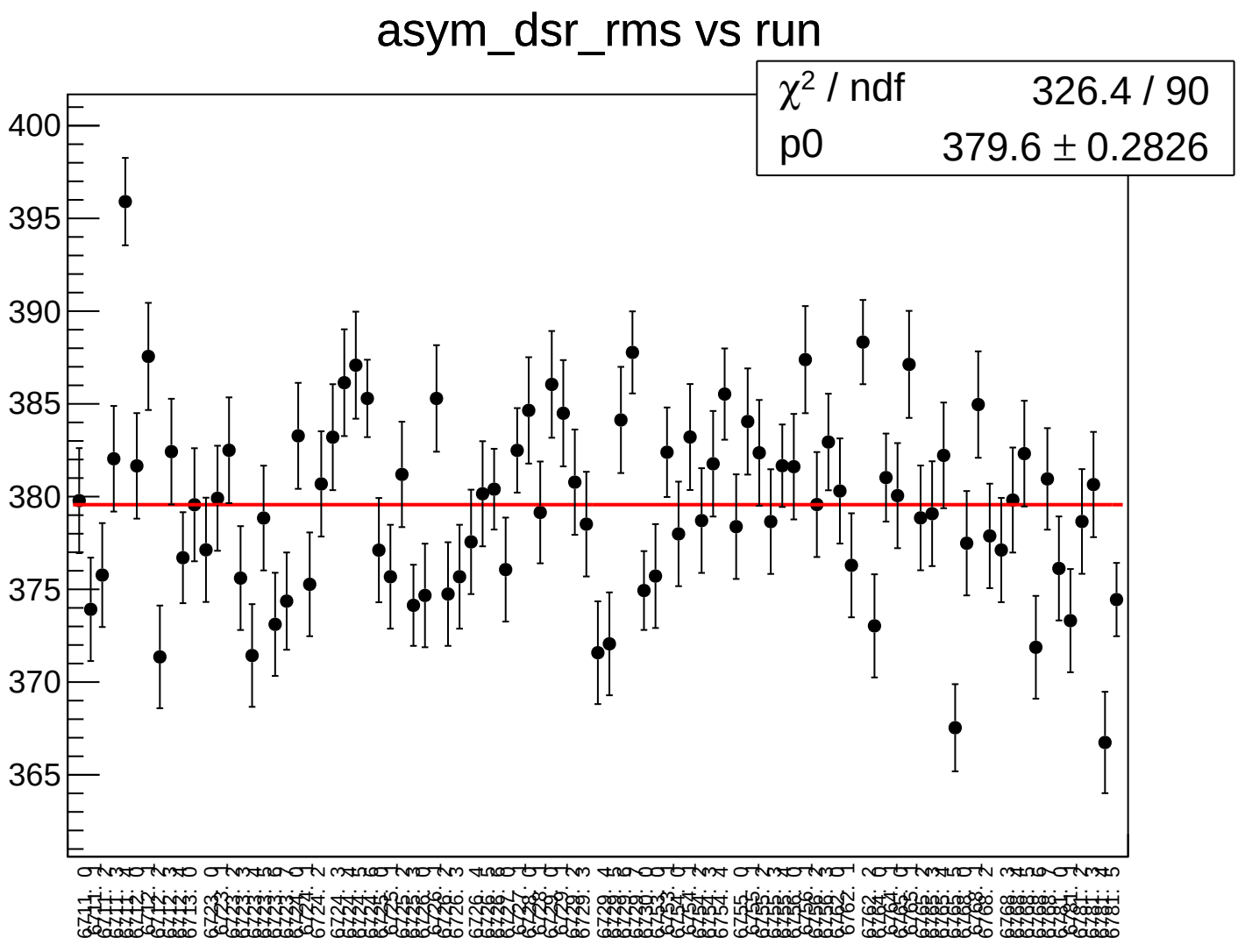

asym_dsl_mean vs run
χ² / ndf 101.4 / 90
p0 286.6 ± 344.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −36.16
Std Dev 0
2
1
0
−1
−2
−3

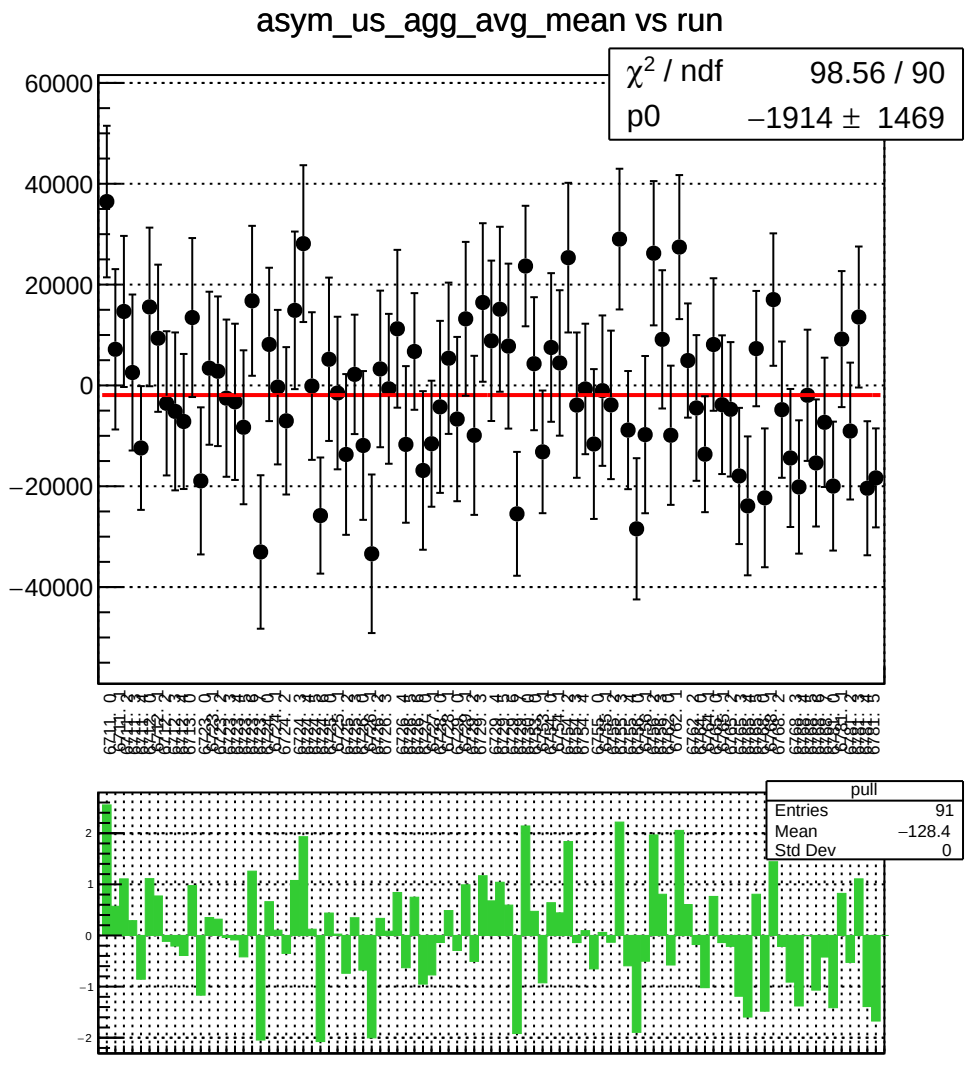

pull1D
Entries 91
Mean −0.01078
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

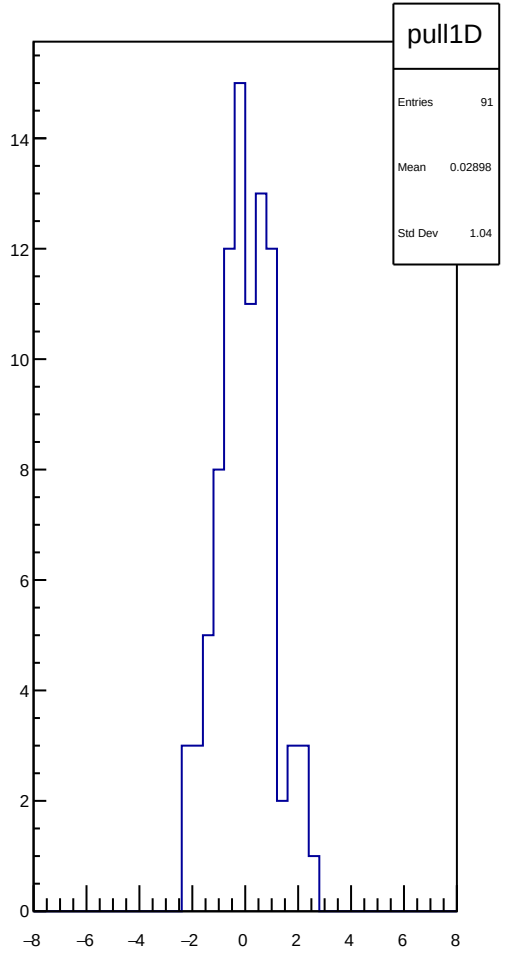

asym_dsl_rms vs run
χ^2 / ndf 190.5 / 90
p0 327.5 ± 0.2438
340
335
330
325
320

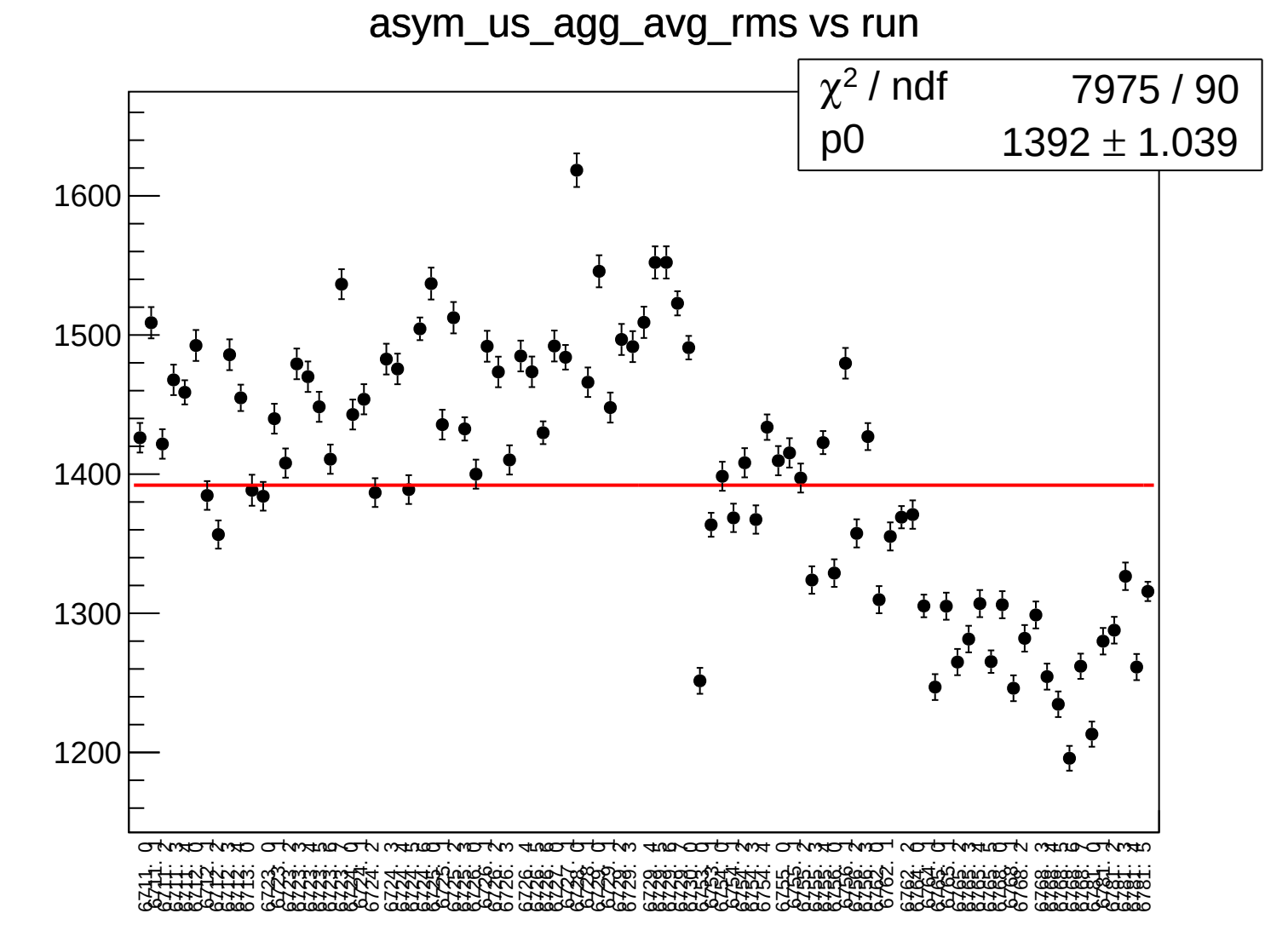

asym_dsr_mean vs run
χ² / ndf 118.4 / 90
p0 737.3 ± 399.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −93.08
Std Dev 0
2
1
0
−1
−2
−3

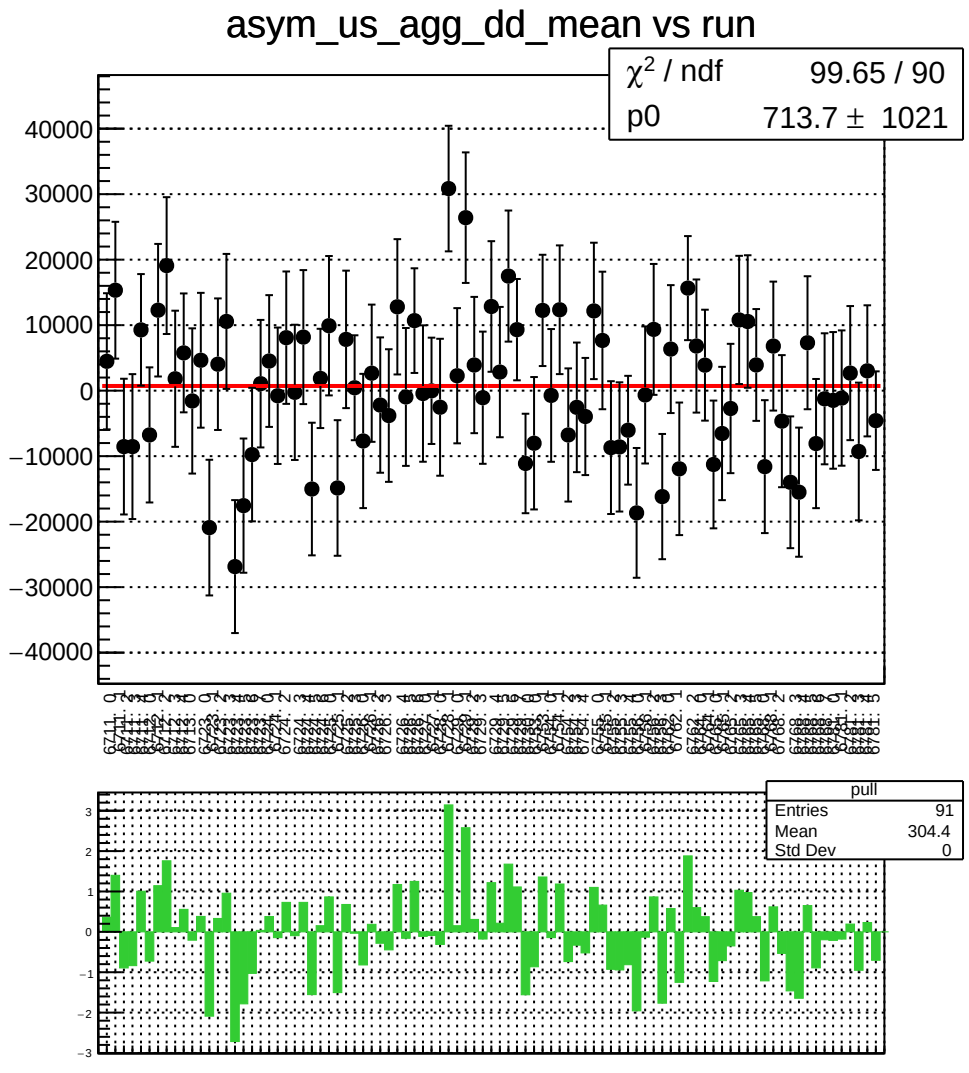

pull1D
Entries 91
Mean 0.008445
Std Dev 1.141
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

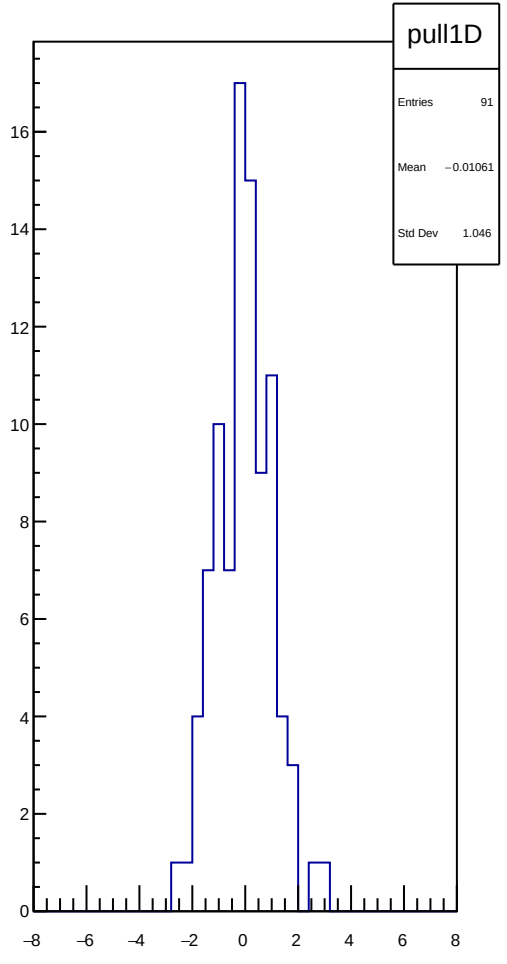

asym_dsr_rms vs run
χ^2 / ndf 326.4 / 90
p0 379.6 ± 0.2826
400
395
390
385
380
375
370
365

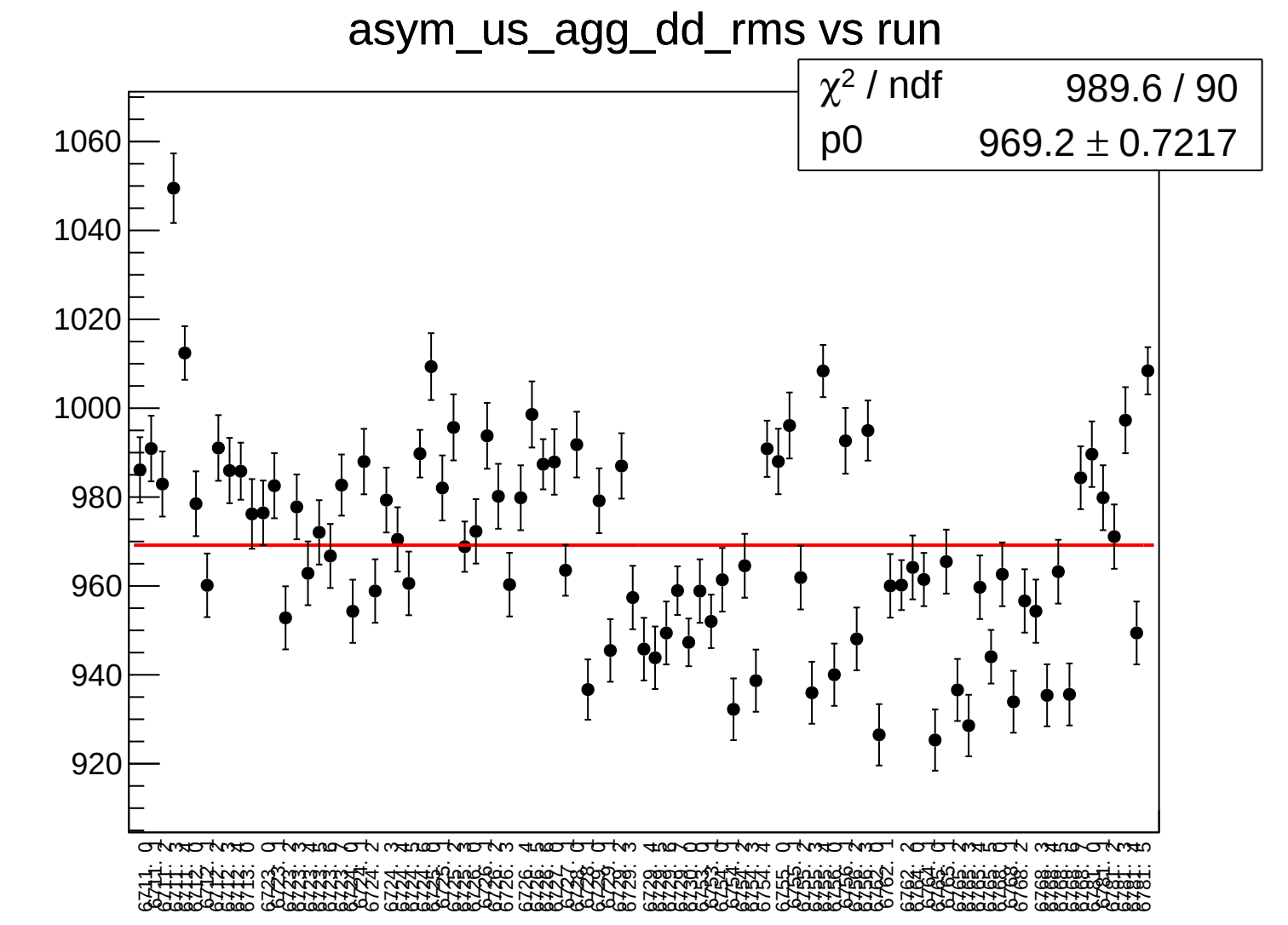

asym_us_agg_avg_mean vs run
χ² / ndf 98.56 / 90
p0 −1914 ± 1469
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −128.4
Std Dev 0
2
1
0
−1
−2

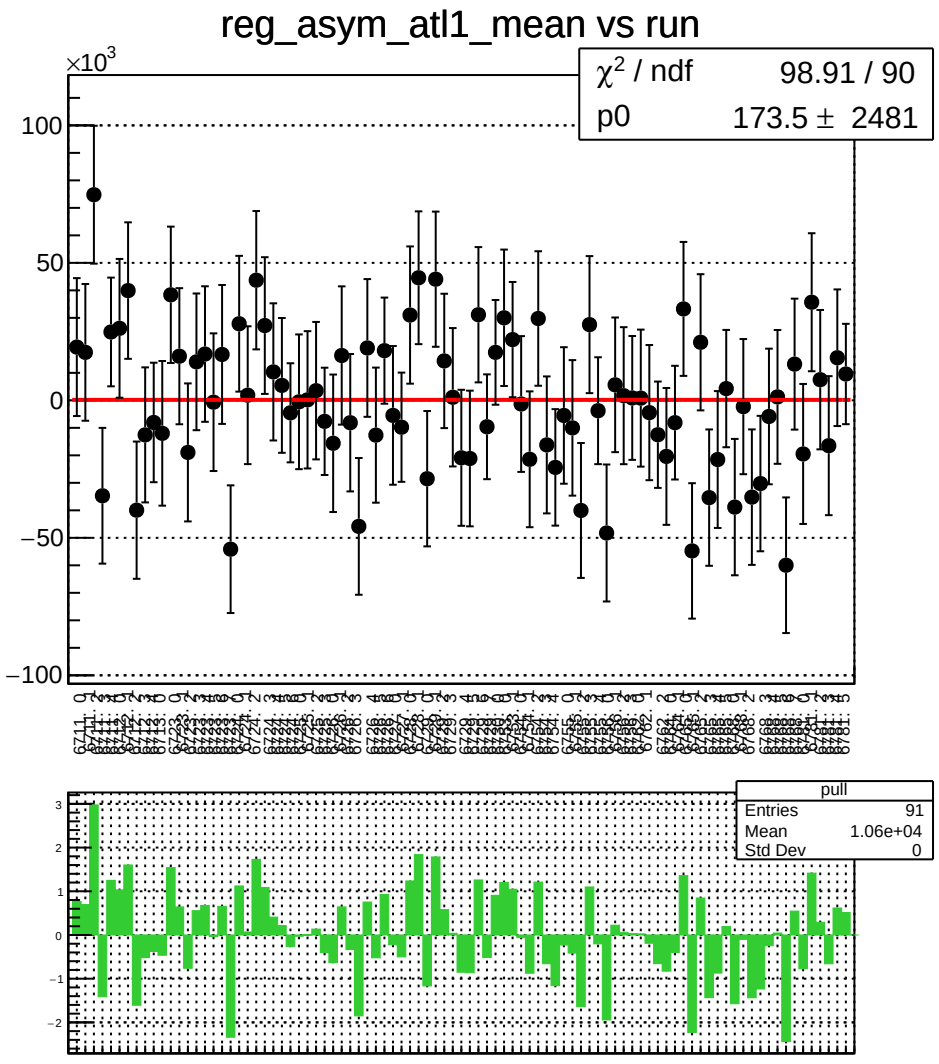

pull1D
Entries 91
Mean 0.02898
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

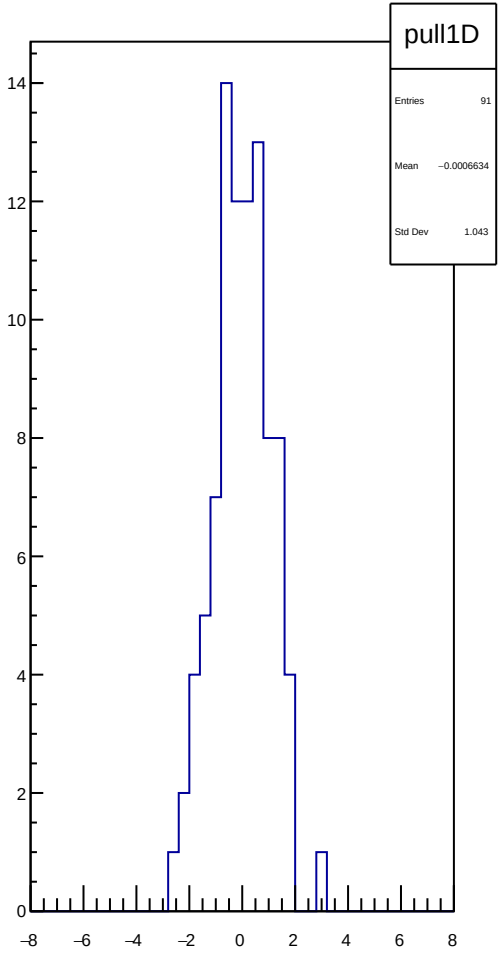

asym_us_agg_avg_rms vs run
χ^2 / ndf 7975 / 90
p0 1392 ± 1.039
1600
1500
1400
1300
1200

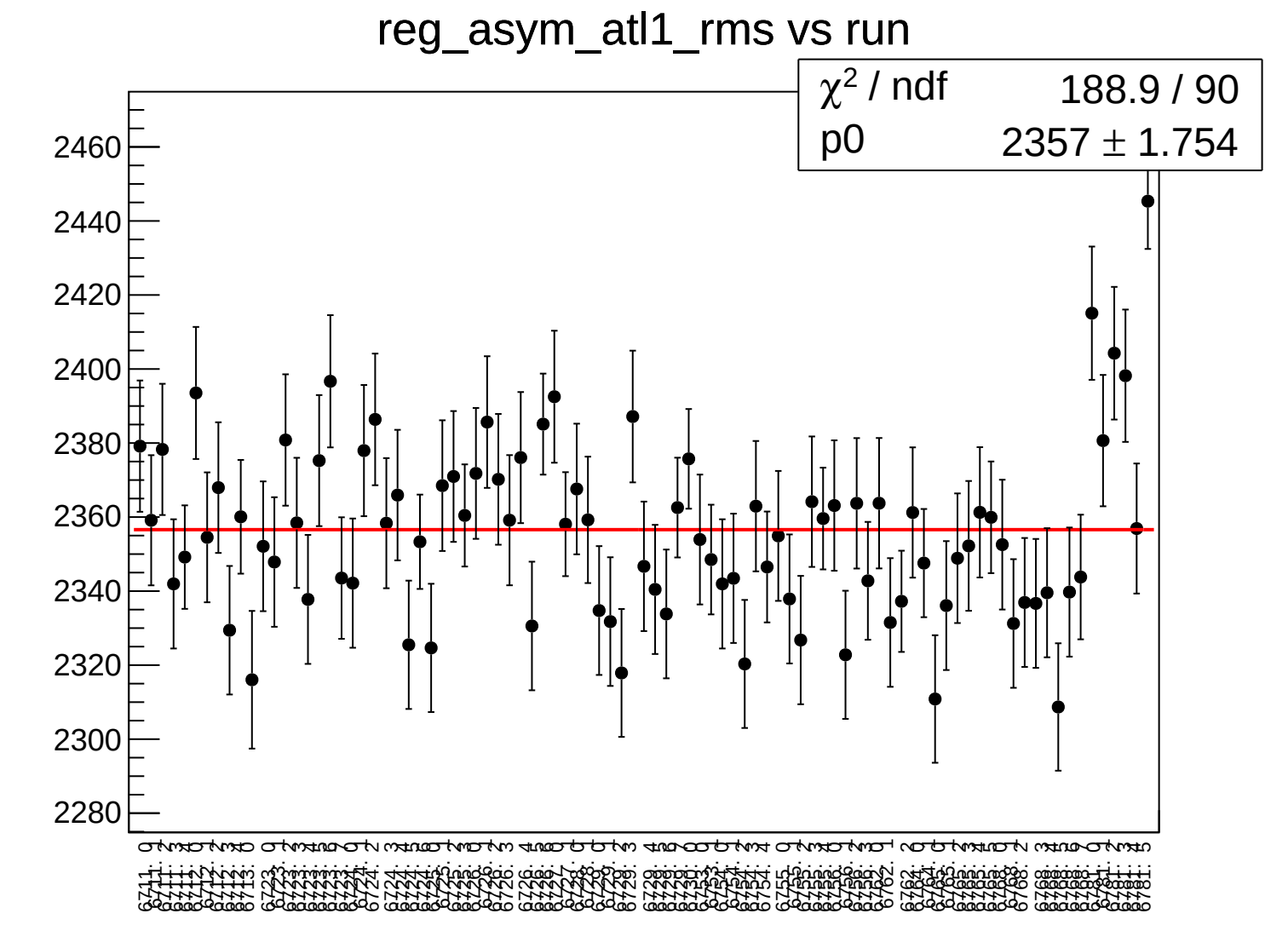

asym_us_agg_dd_mean vs run
χ² / ndf 99.65 / 90
p0 713.7 ± 1021
pull
Entries 91
Mean 304.4
Std Dev 0

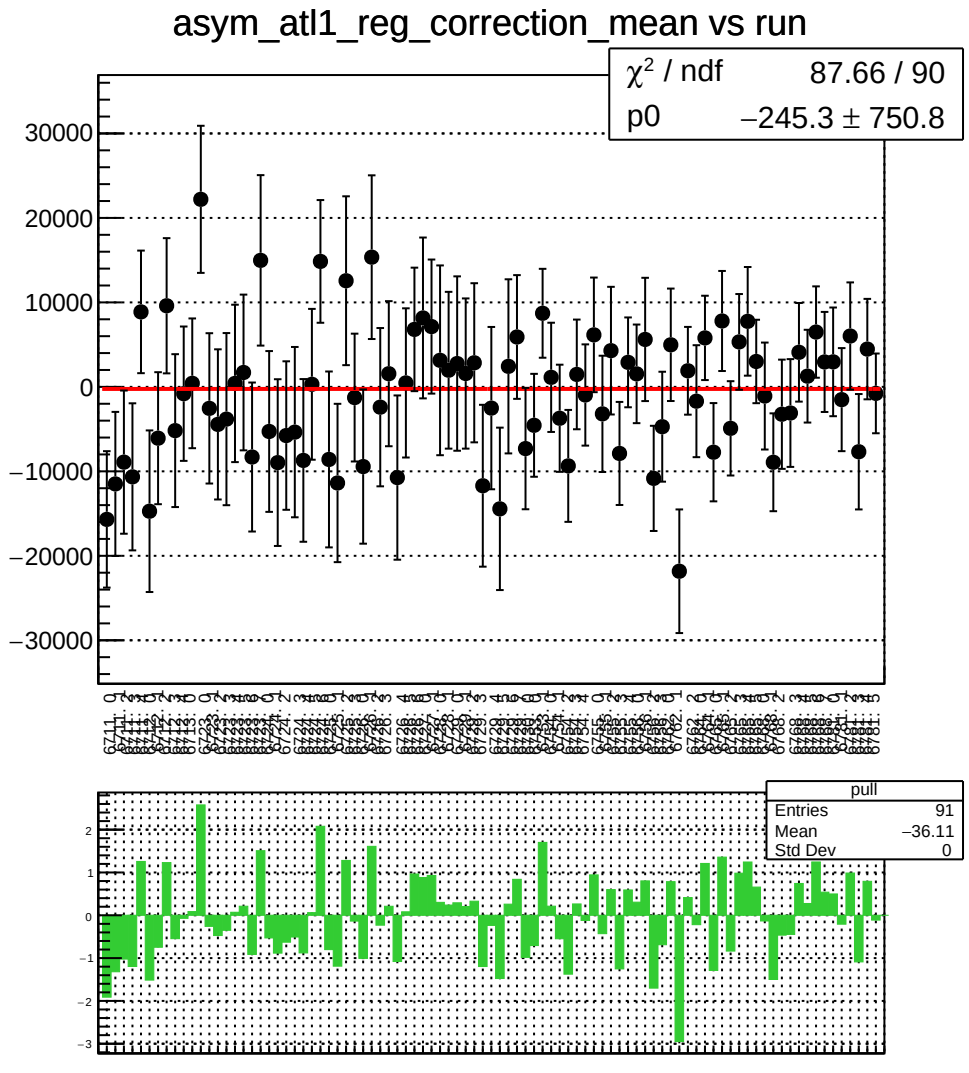

pull1D
Entries 91
Mean −0.01061
Std Dev 1.046

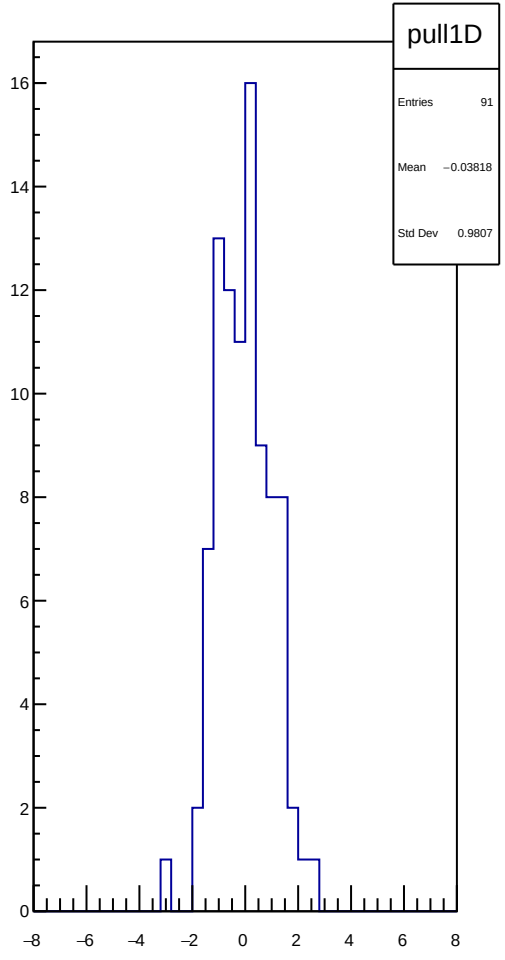

asym_us_agg_dd_rms vs run
χ^2 / ndf 989.6 / 90
p0 969.2 ± 0.7217
1060
1040
1020
1000
980
960
940
920

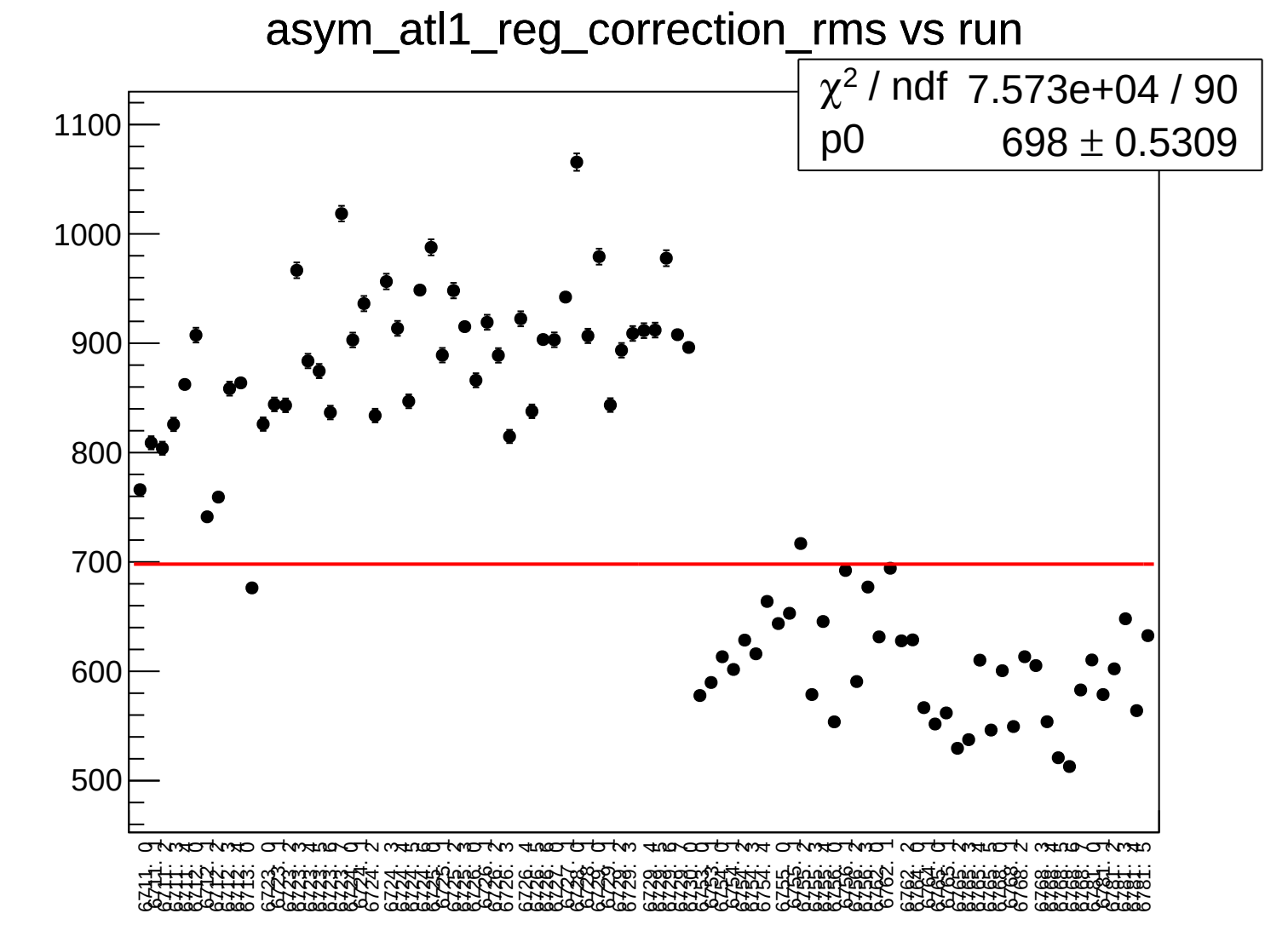

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 98.91 / 90
p0 173.5 ± 2481
100
50
0
−50
−100
pull
Entries 91
Mean 1.06e+04
Std Dev 0
3
2
1
0
−1
−2

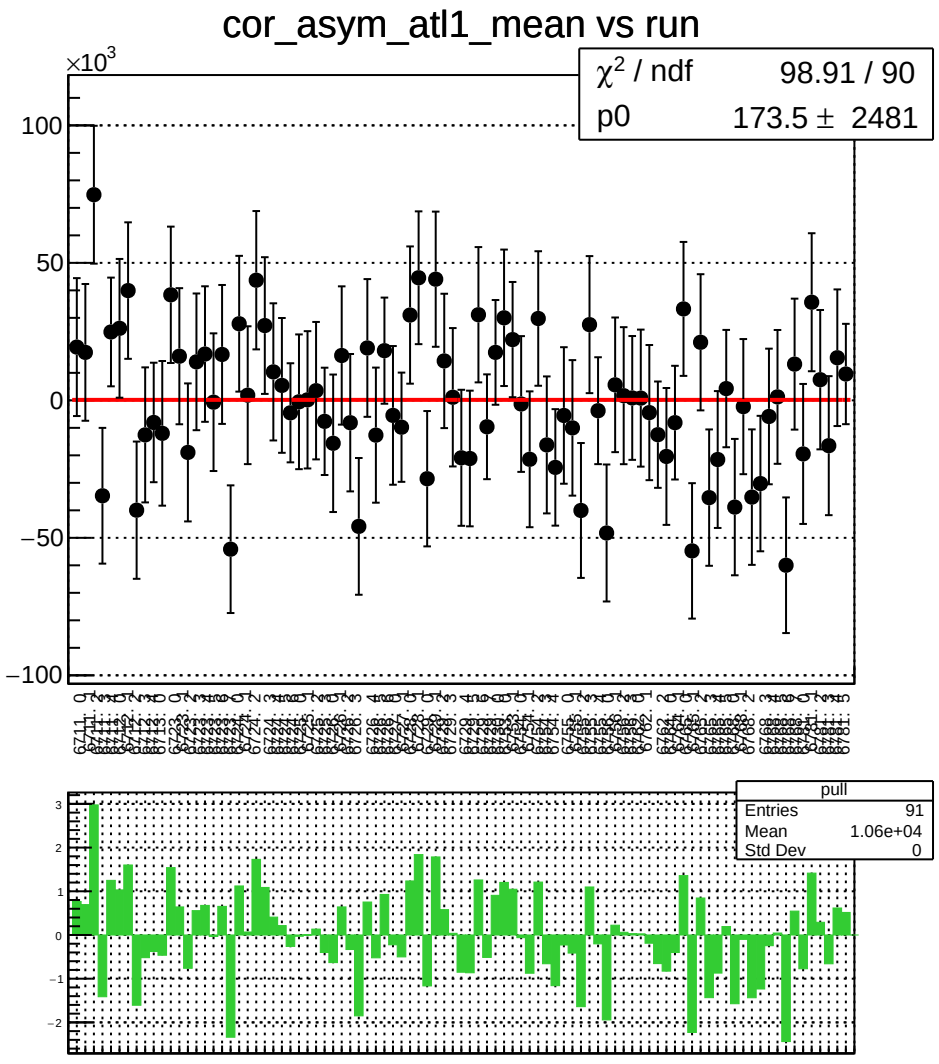

pull1D
Entries 91
Mean −0.0006634
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

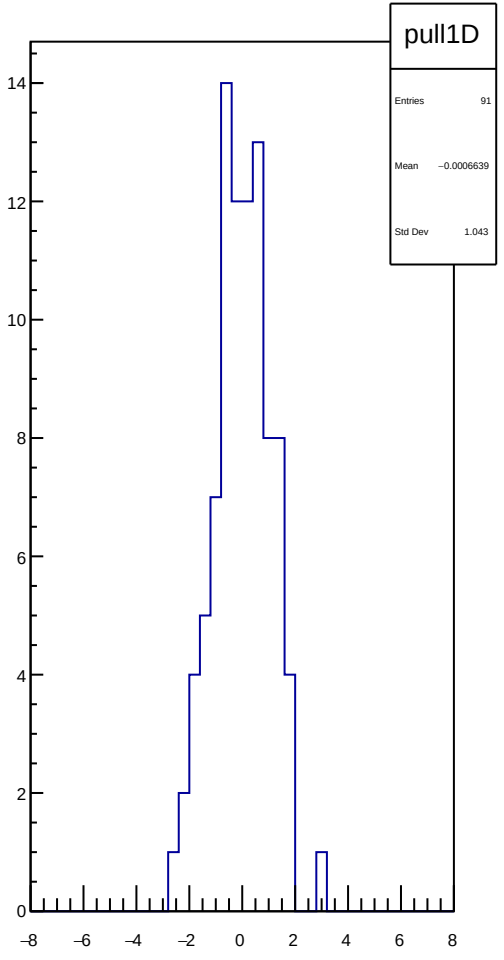

reg_asym_atl1_rms vs run
χ^2 / ndf 188.9 / 90
p0 2357 ± 1.754
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280

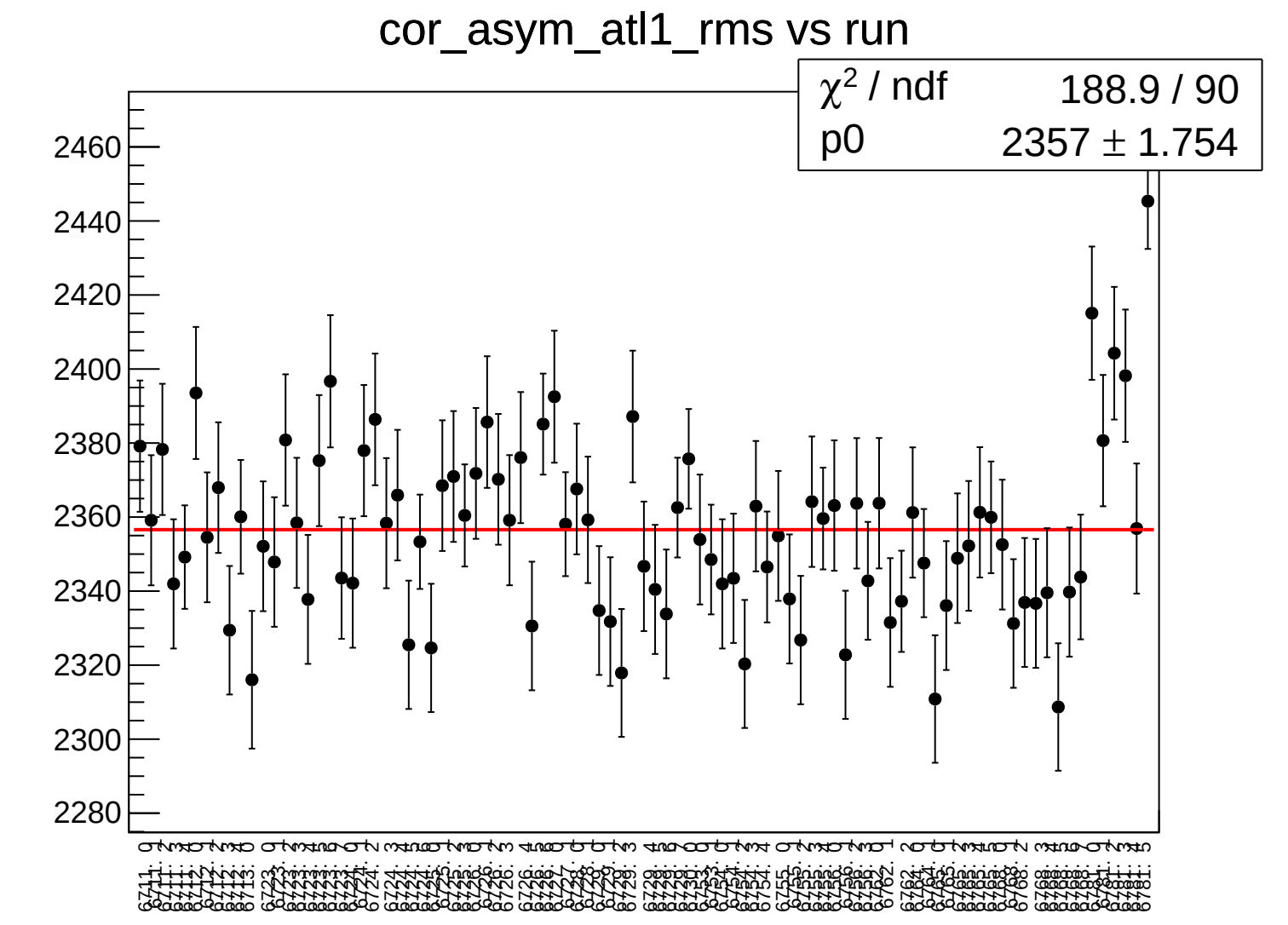

asym_atl1_reg_correction_mean vs run
χ² / ndf 87.66 / 90
p0 −245.3 ± 750.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −36.11
Std Dev 0
2
1
0
−1
−2
−3

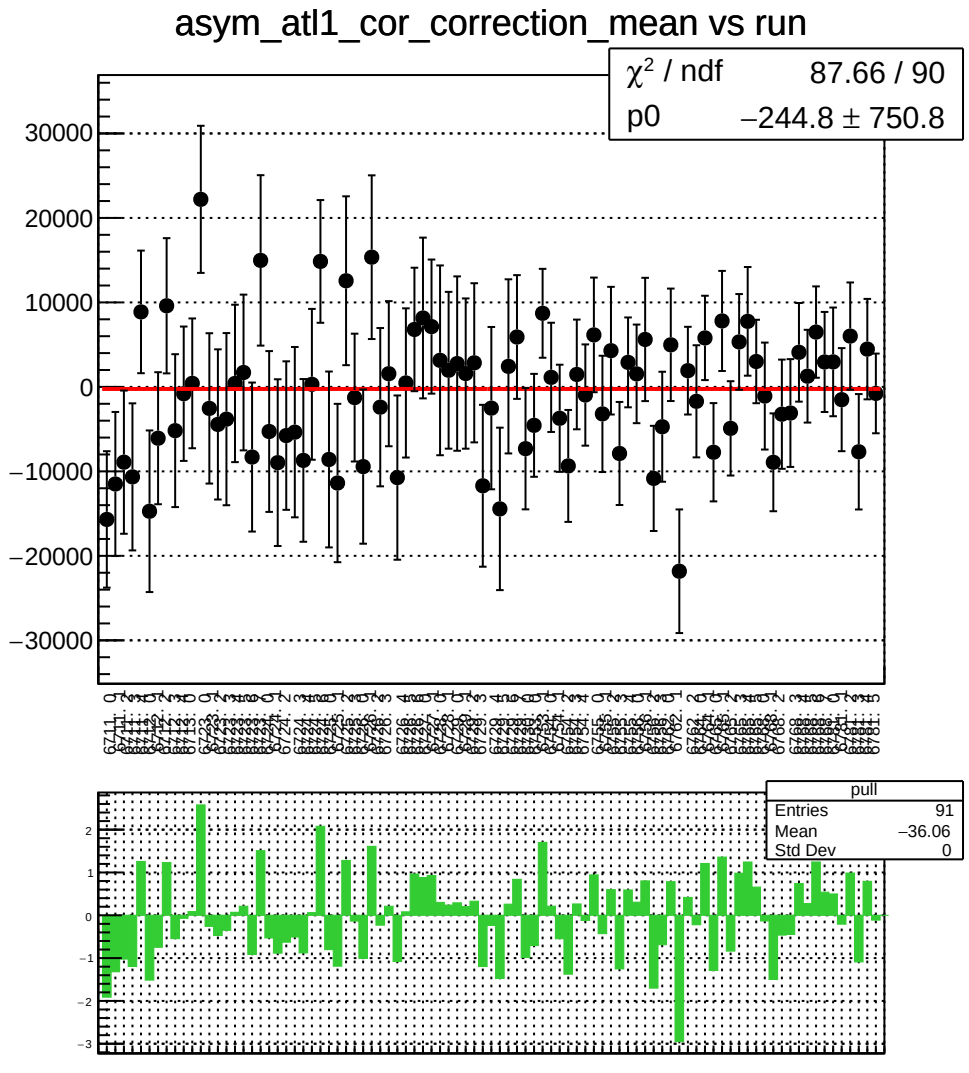

pull1D
Entries 91
Mean −0.03818
Std Dev 0.9807
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

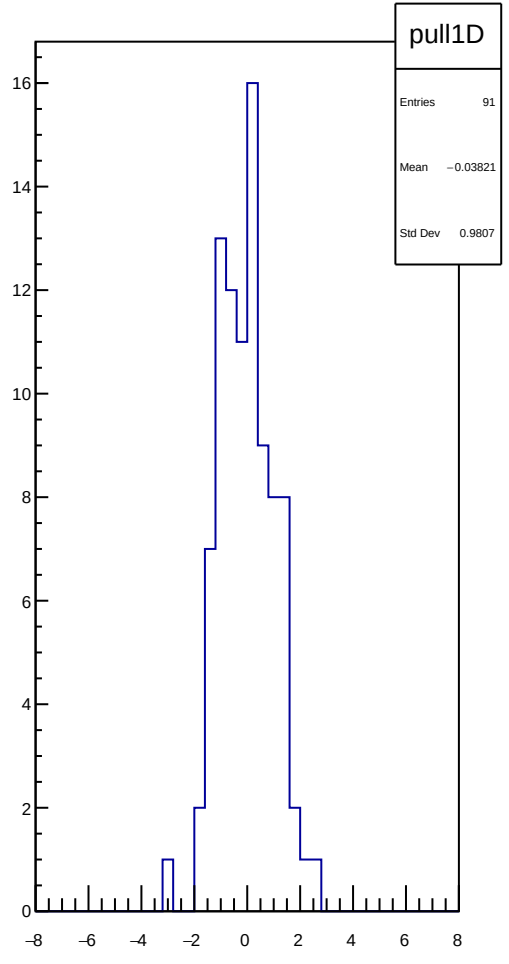

asym_atl1_reg_correction_rms vs run
χ² / ndf 7.573e+04 / 90
p0 698 ± 0.5309
1100
1000
900
800
700
600
500

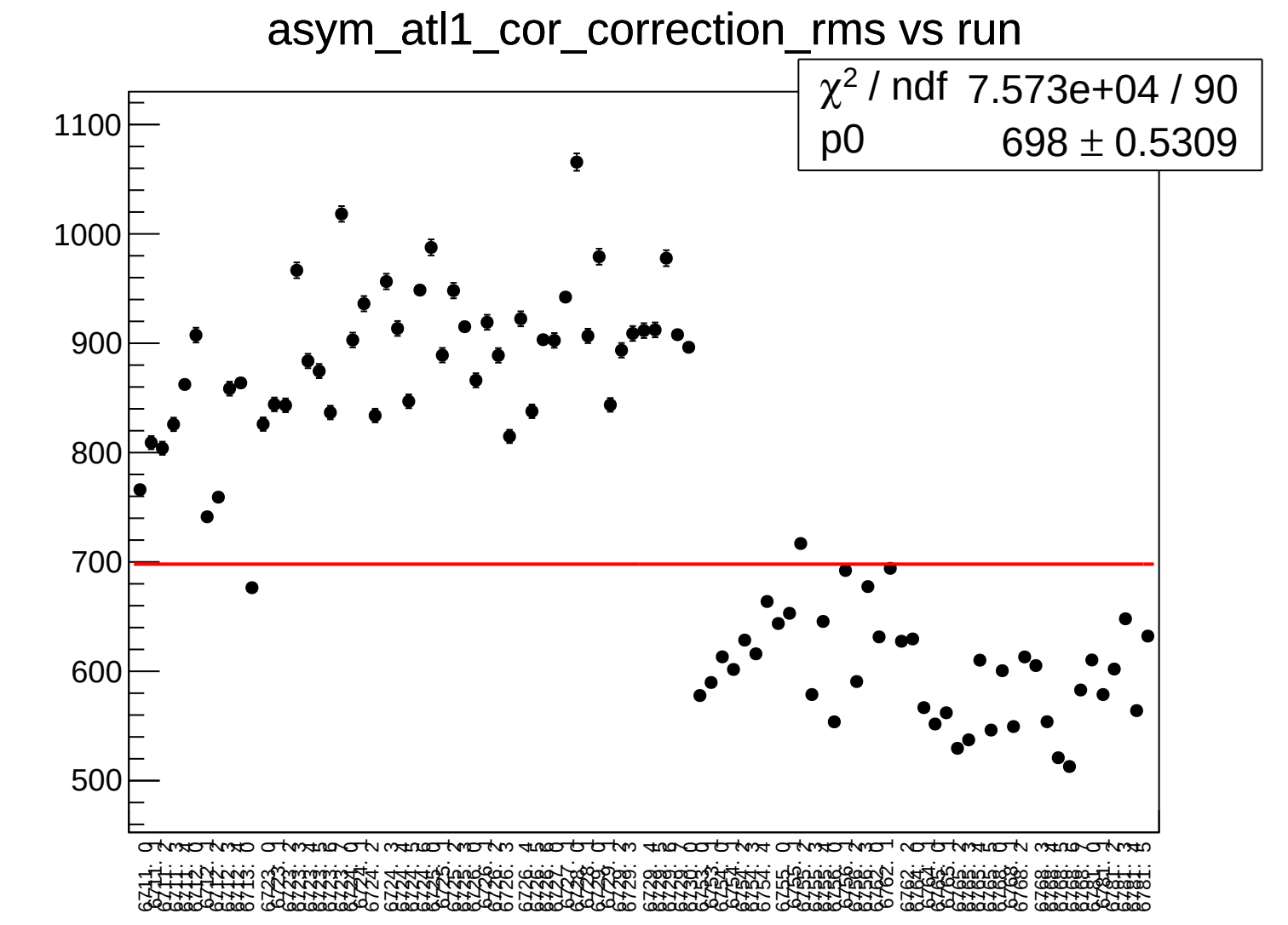

cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 98.91 / 90
p0 173.5 ± 2481
100
50
0
−50
−100
pull
Entries 91
Mean 1.06e+04
Std Dev 0
3
2
1
0
−1
−2

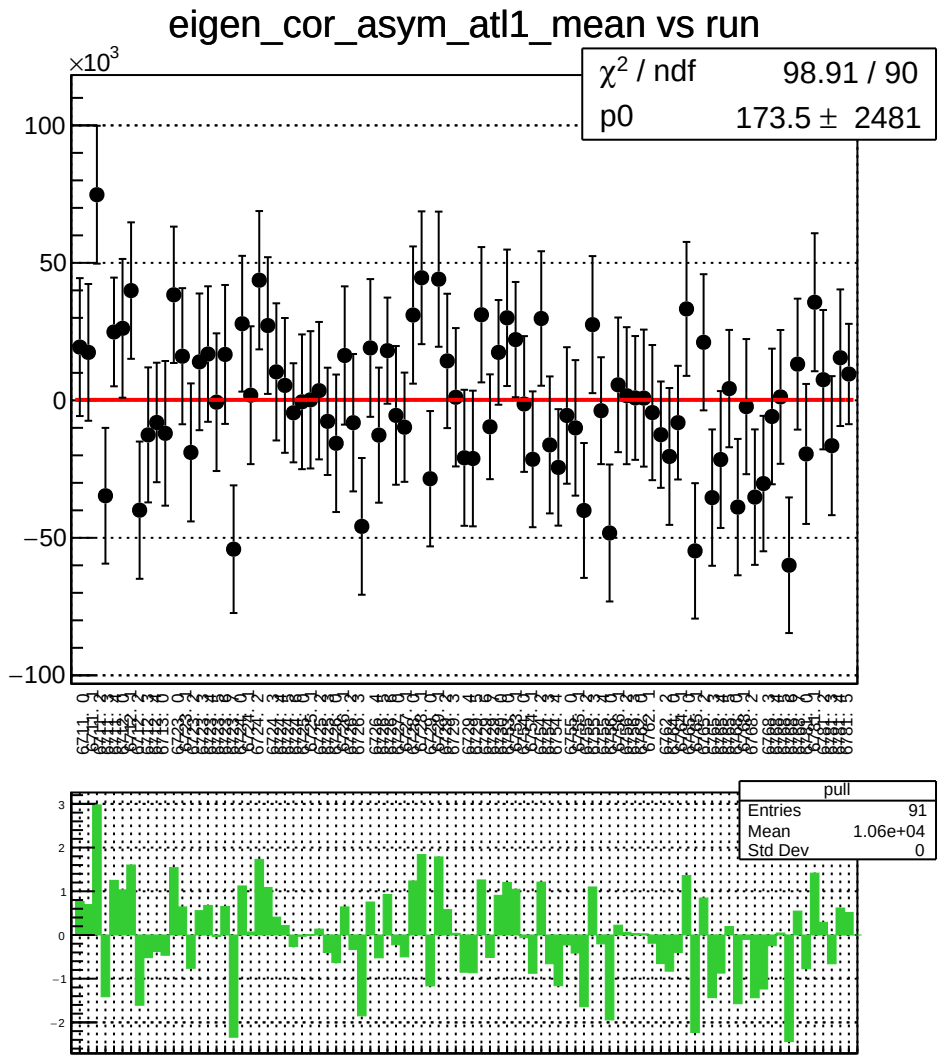

pull1D
Entries 91
Mean −0.0006639
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

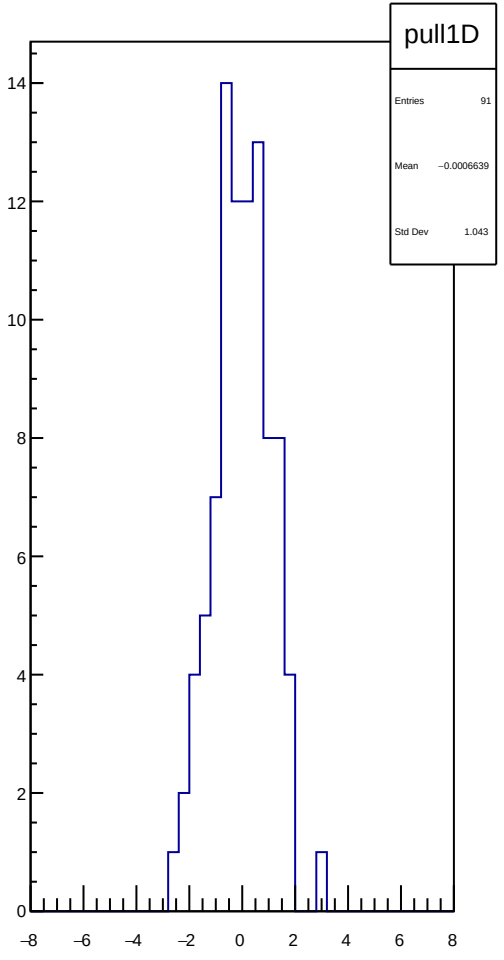

cor_asym_atl1_rms vs run
χ^2 / ndf 188.9 / 90
p0 2357 ± 1.754
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280

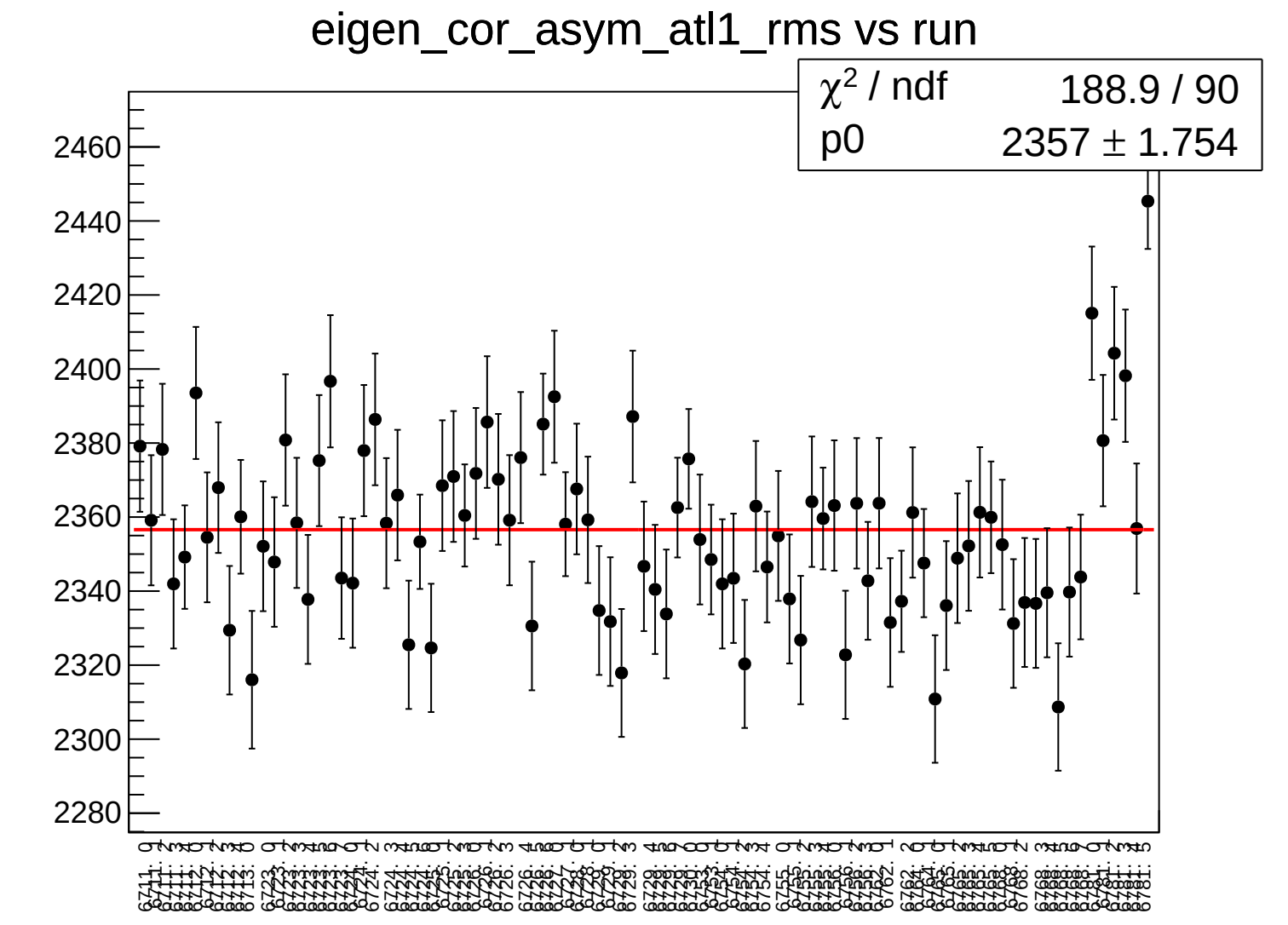

asym_atl1_cor_correction_mean vs run
χ² / ndf 87.66 / 90
p0 −244.8 ± 750.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −36.06
Std Dev 0
2
1
0
−1
−2
−3

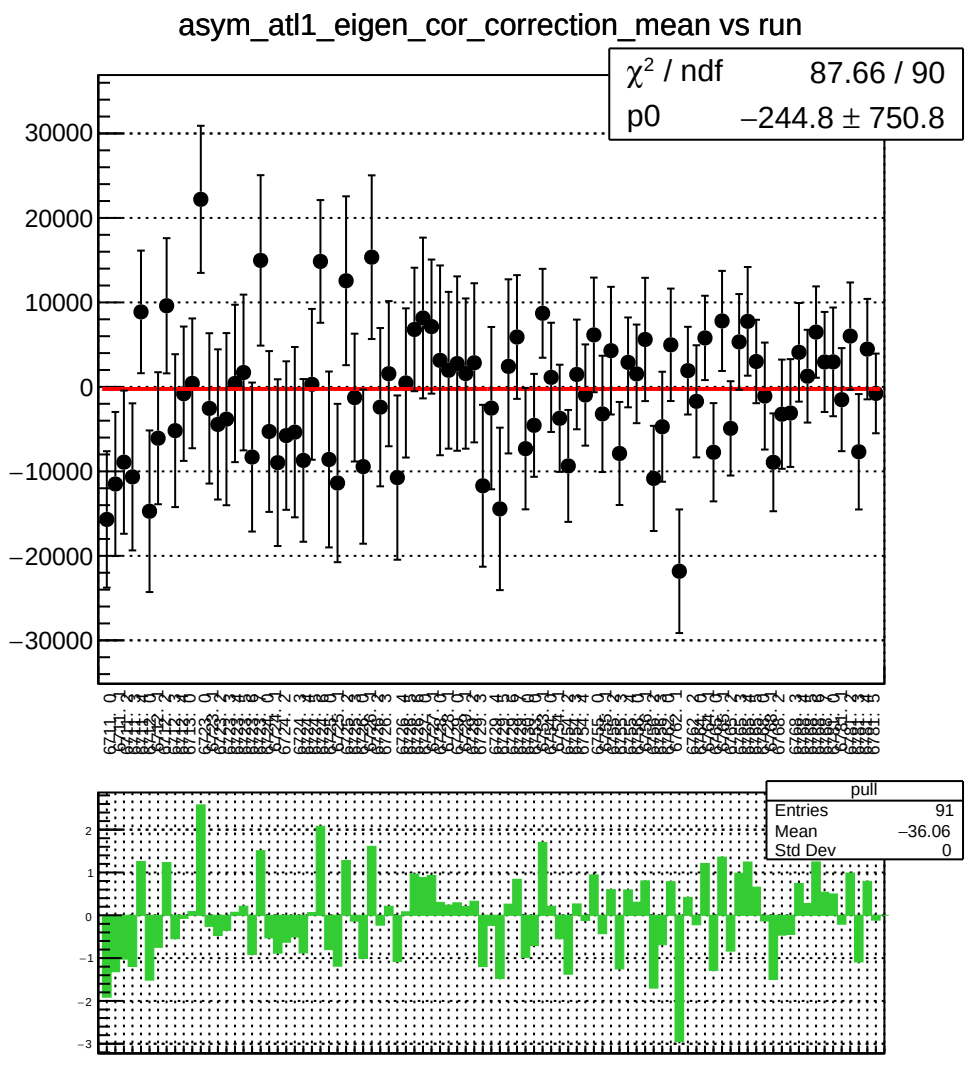

pull1D
Entries 91
Mean −0.03821
Std Dev 0.9807
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

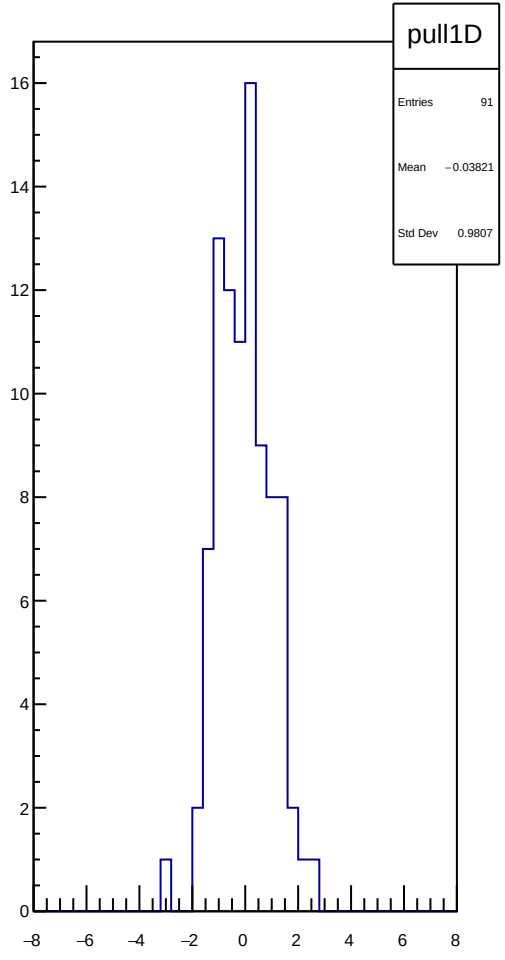

asym_atl1_cor_correction_rms vs run
χ² / ndf 7.573e+04 / 90
p0 698 ± 0.5309
1100
1000
900
800
700
600
500

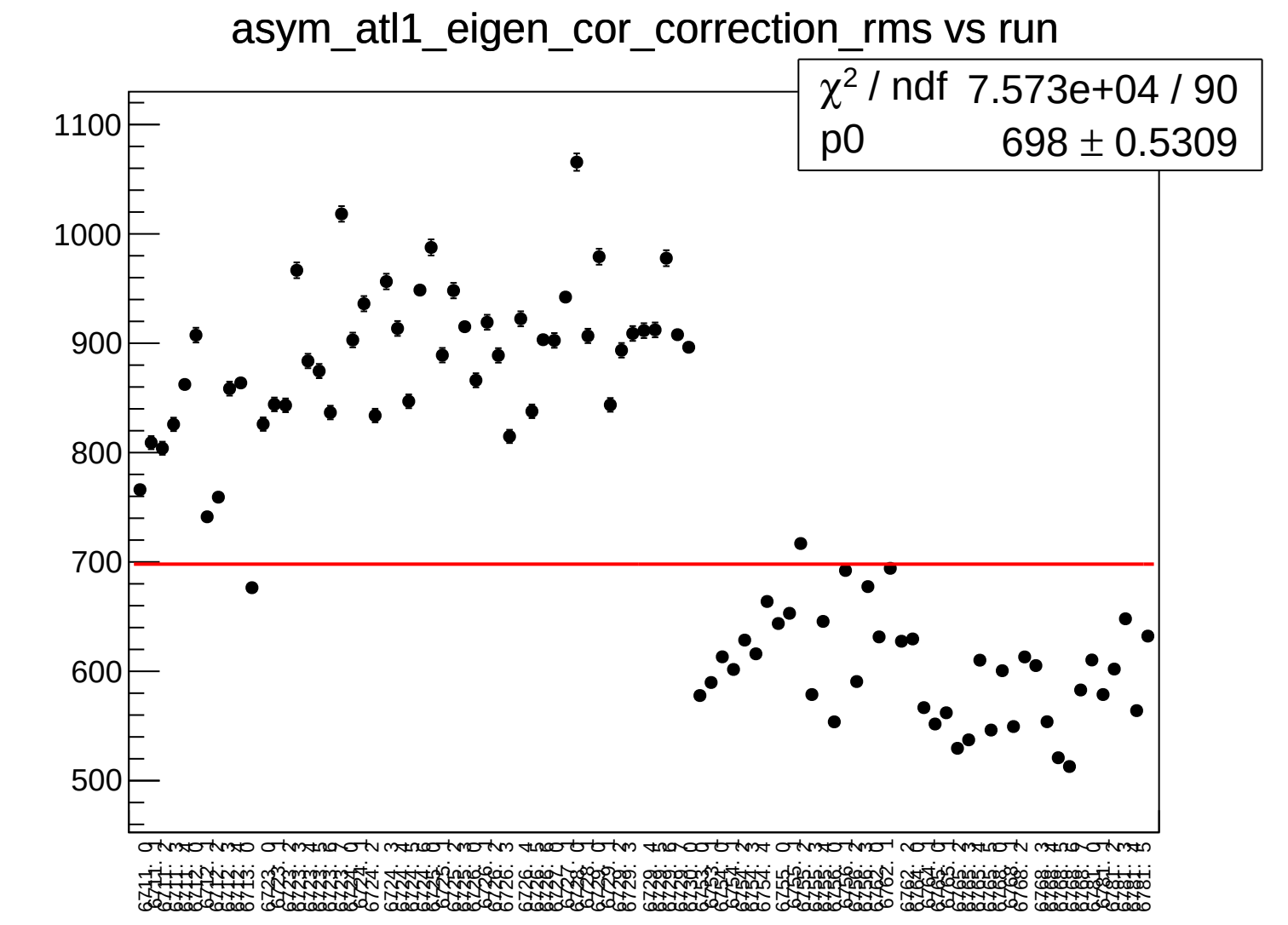

eigen_cor_asym_atl1_mean vs run
×10^3
χ² / ndf 98.91 / 90
p0 173.5 ± 2481
100
50
0
−50
−100
pull
Entries 91
Mean 1.06e+04
Std Dev 0
3
2
1
0
−1
−2

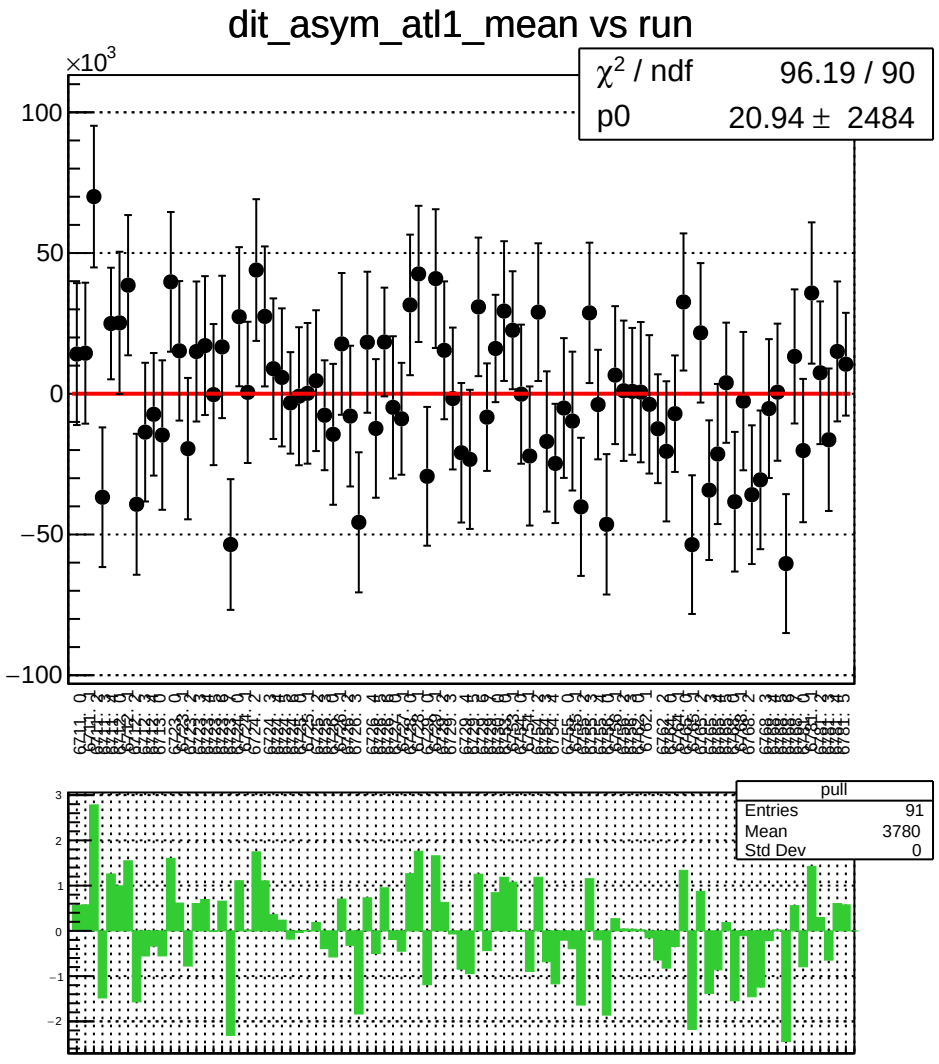

pull1D
Entries 91
Mean −0.0006639
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

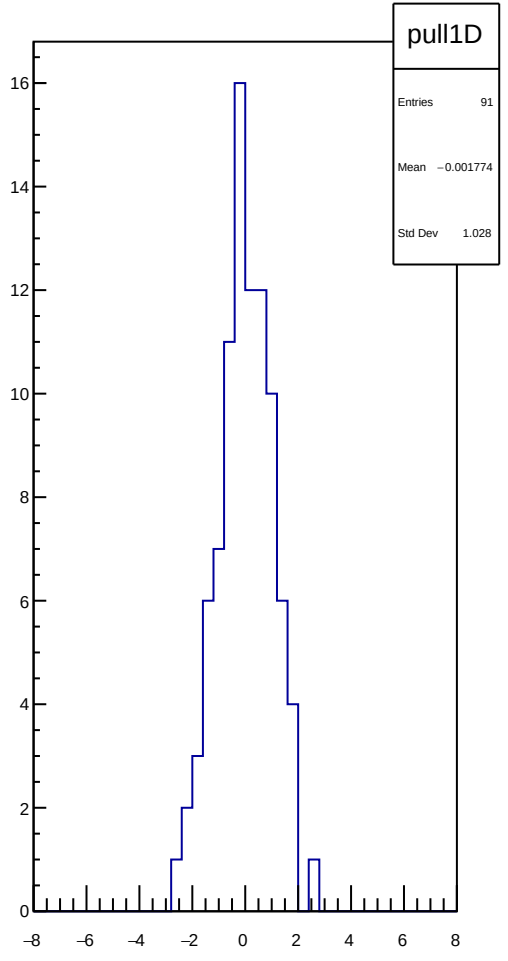

eigen_cor_asym_atl1_rms vs run
χ² / ndf 188.9 / 90
p0 2357 ± 1.754
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280

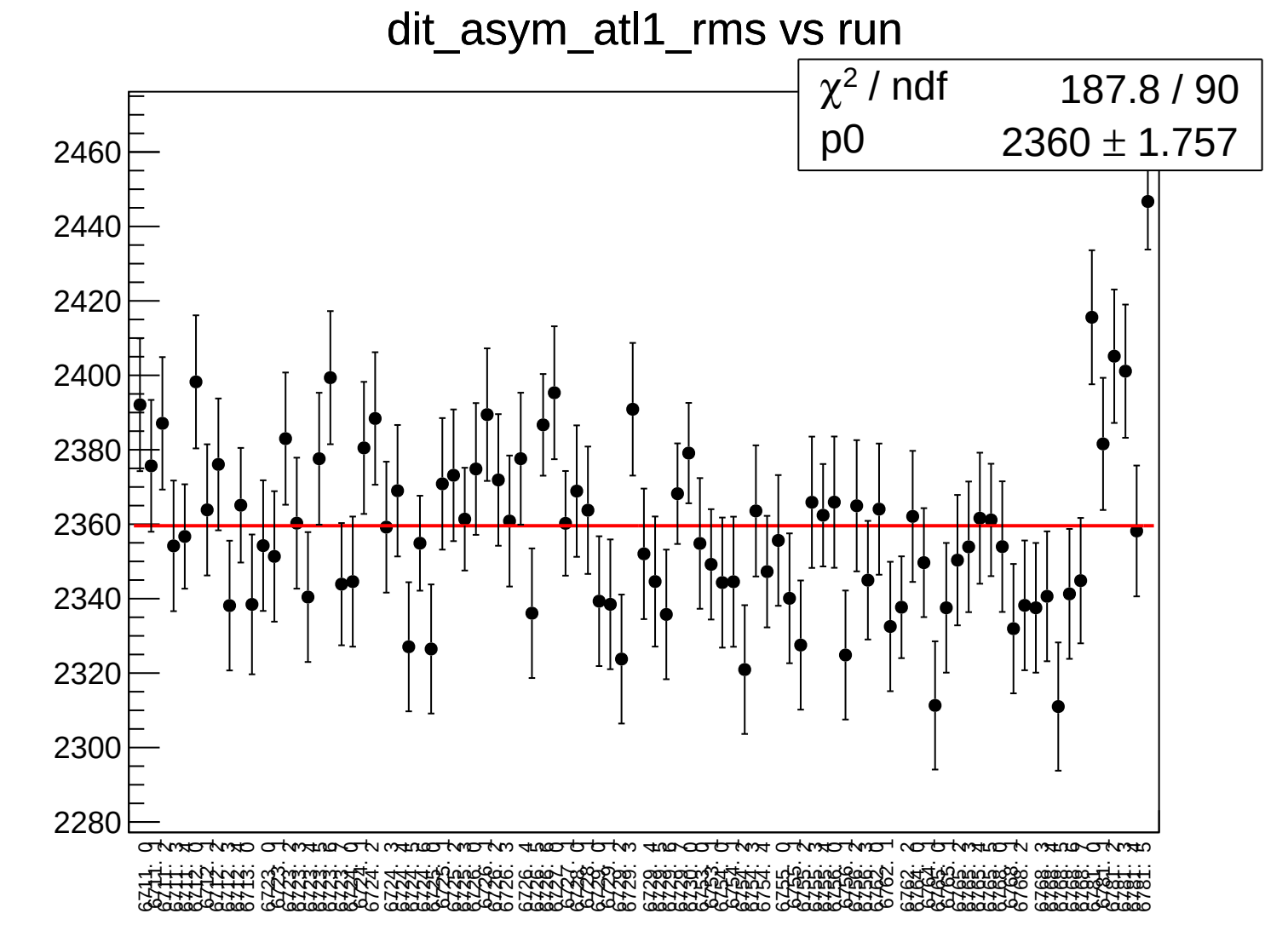

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 87.66 / 90
p0 −244.8 ± 750.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −36.06
Std Dev 0
2
1
0
−1
−2
−3

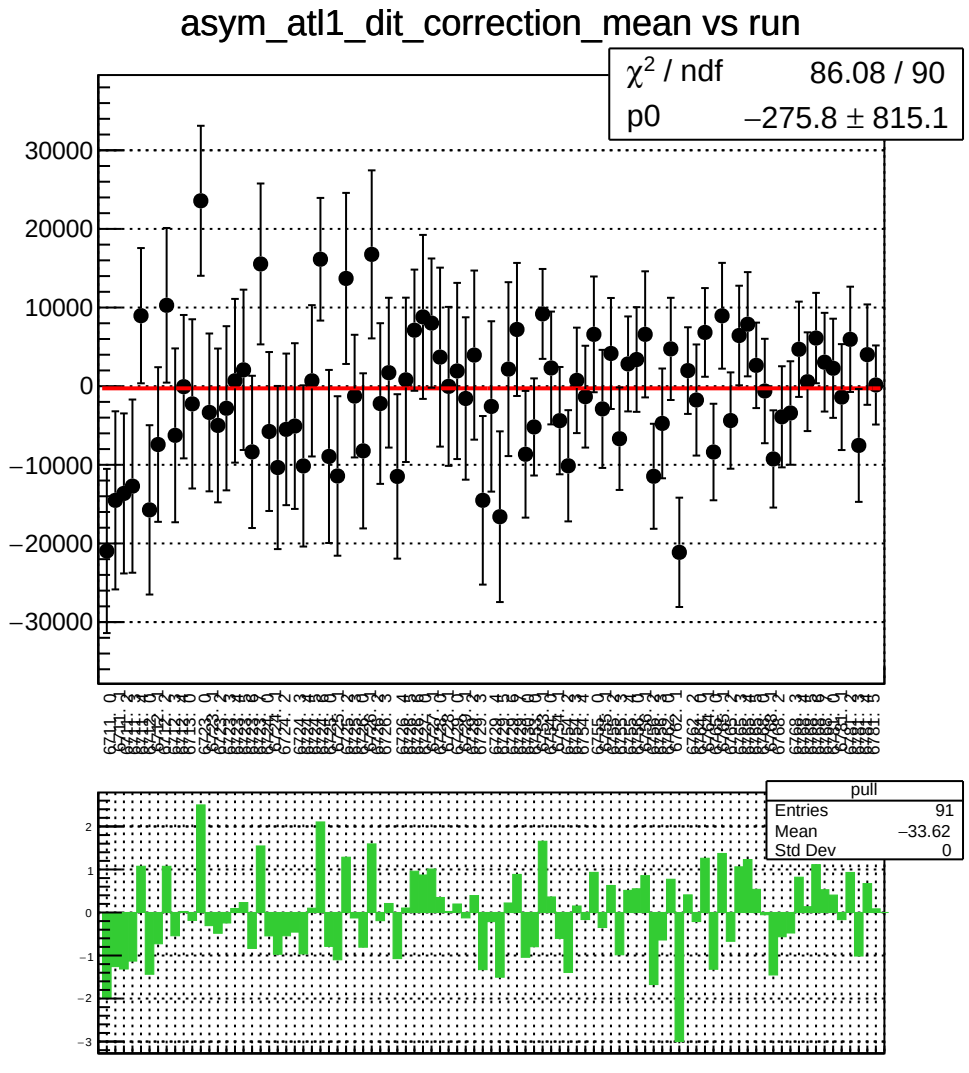

pull1D
Entries 91
Mean −0.03821
Std Dev 0.9807
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

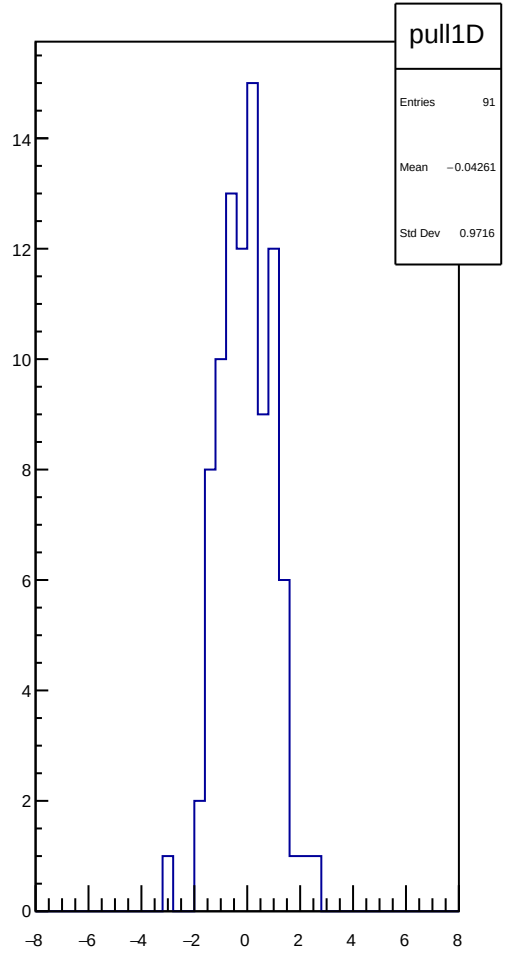

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 7.573e+04 / 90
p0 698 ± 0.5309
1100
1000
900
800
700
600
500

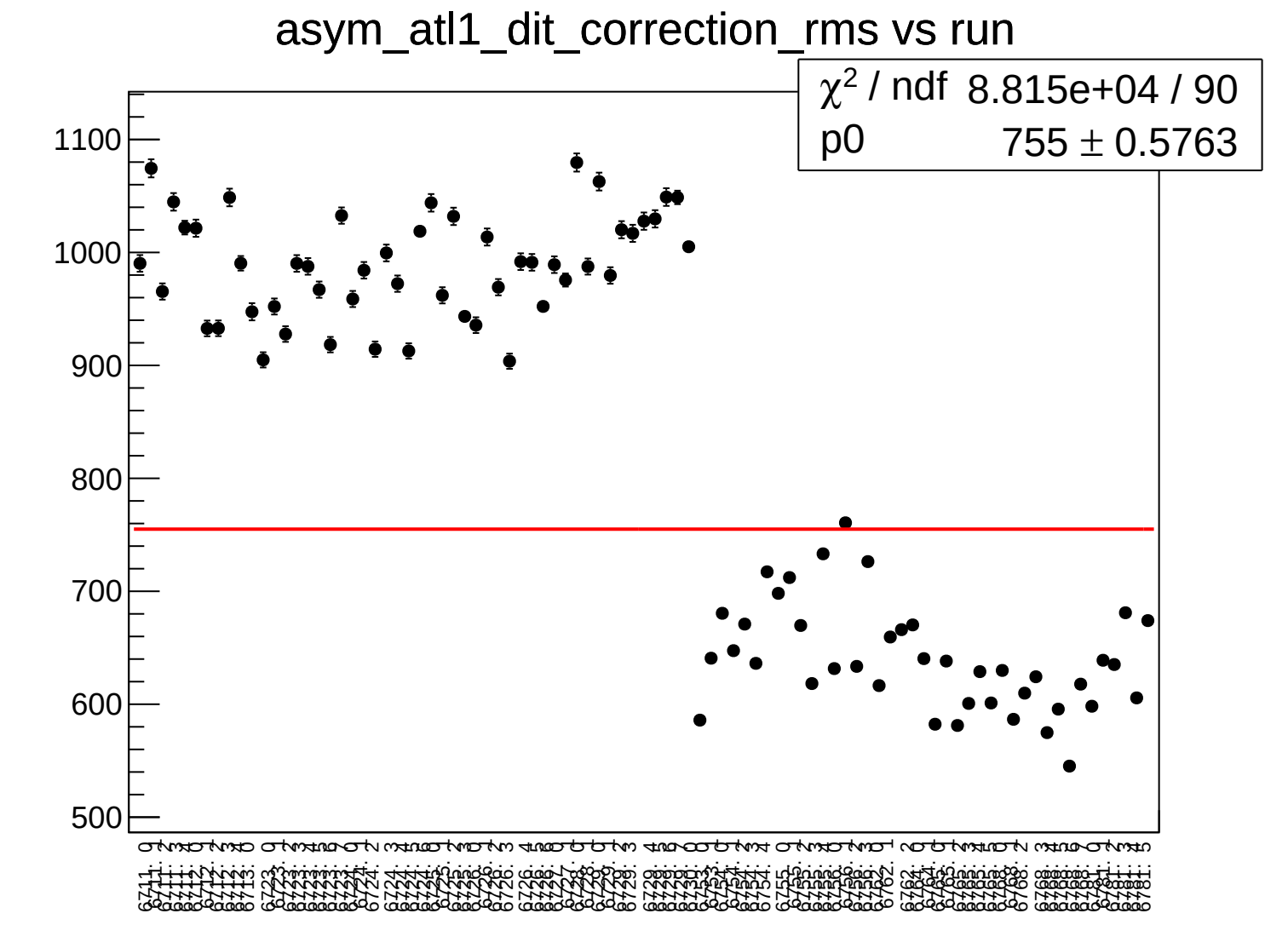

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 96.19 / 90
p0 20.94 ± 2484
100
50
0
−50
−100
pull
Entries 91
Mean 3780
Std Dev 0
3
2
1
0
−1
−2

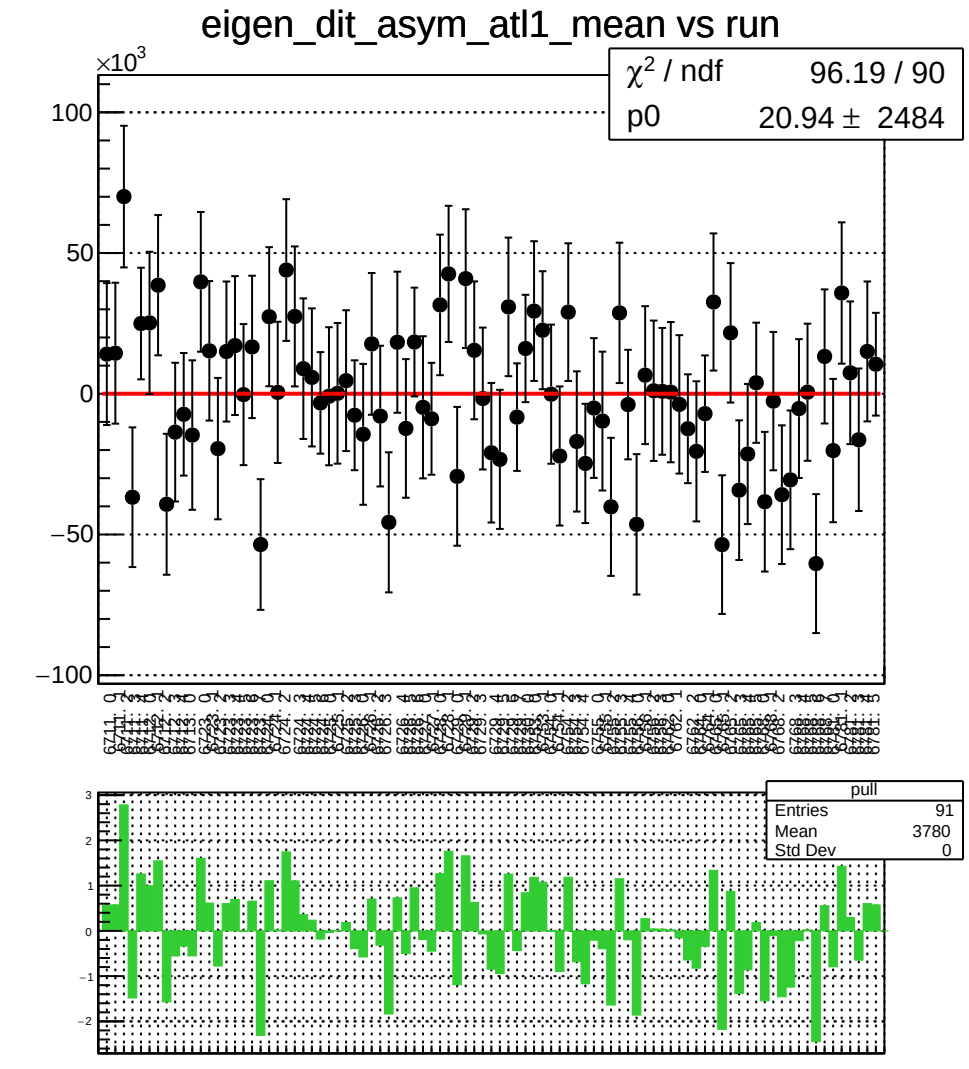

pull1D
Entries 91
Mean −0.001774
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

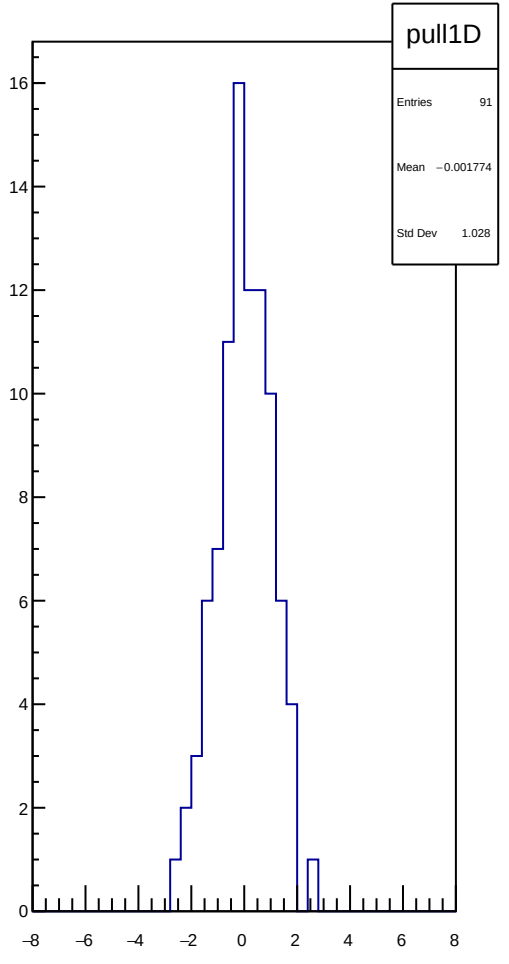

dit_asym_atl1_rms vs run
χ^2 / ndf 187.8 / 90
p0 2360 ± 1.757
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280

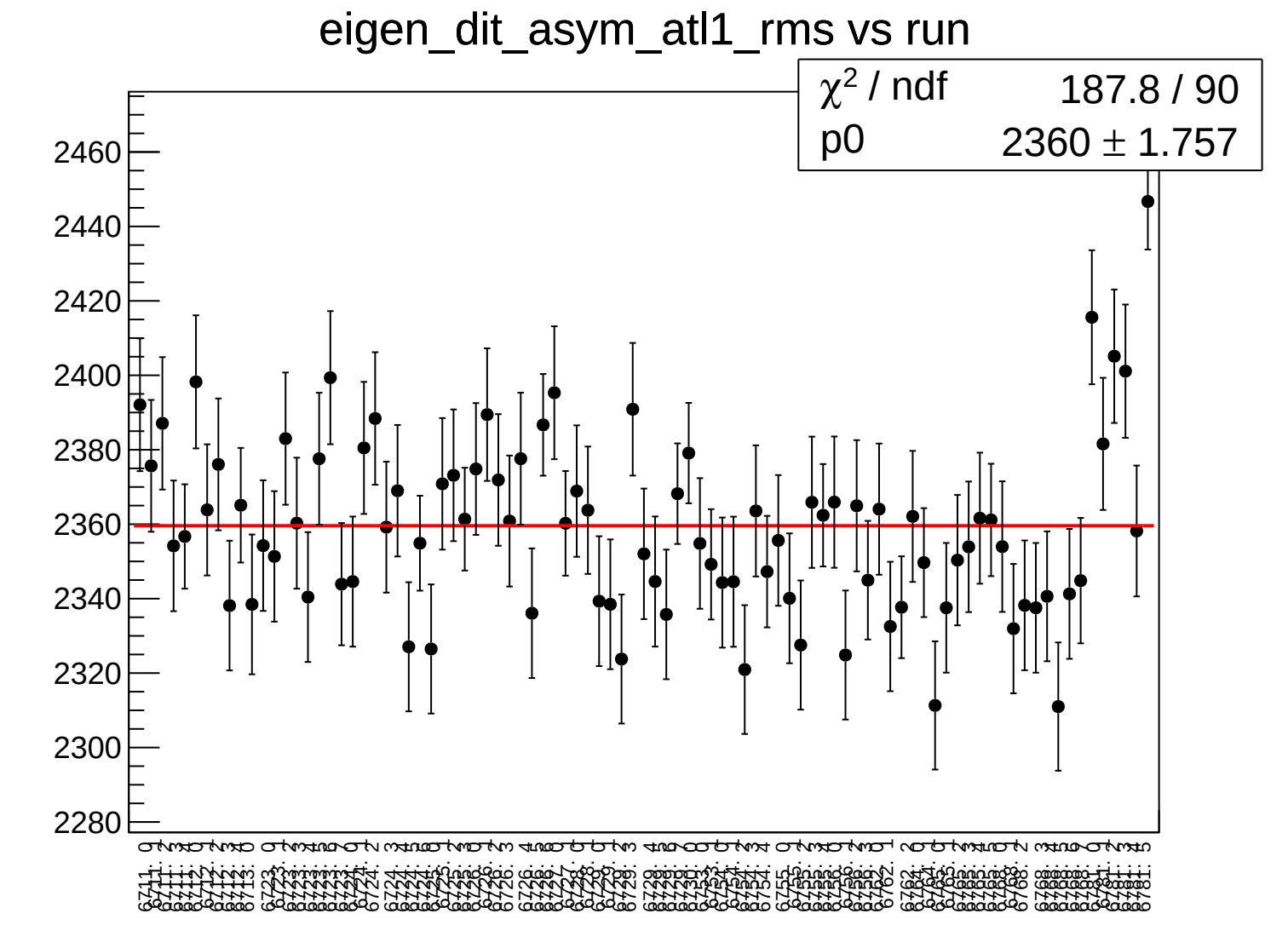

asym_atl1_dit_correction_mean vs run
χ² / ndf 86.08 / 90
p0 −275.8 ± 815.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −33.62
Std Dev 0
2
1
0
−1
−2
−3

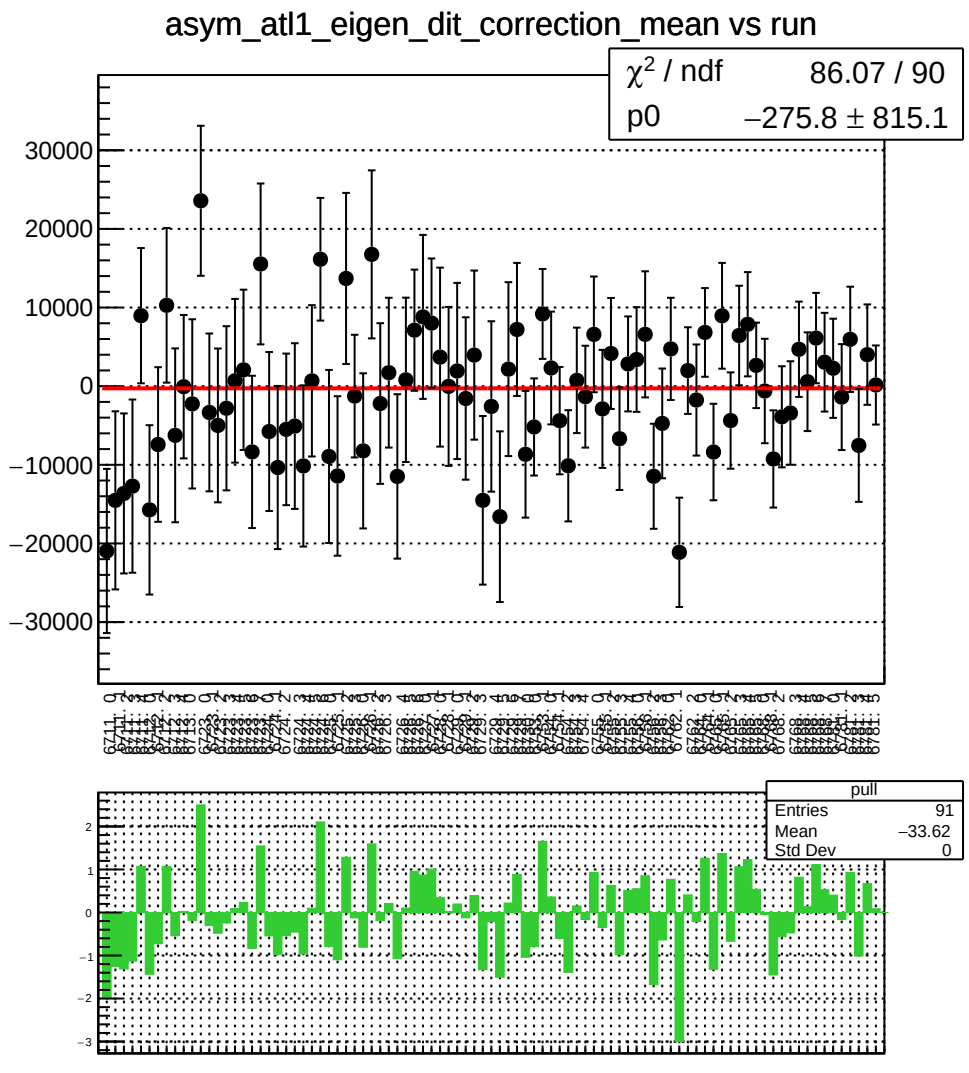

pull1D
Entries 91
Mean −0.04261
Std Dev 0.9716
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

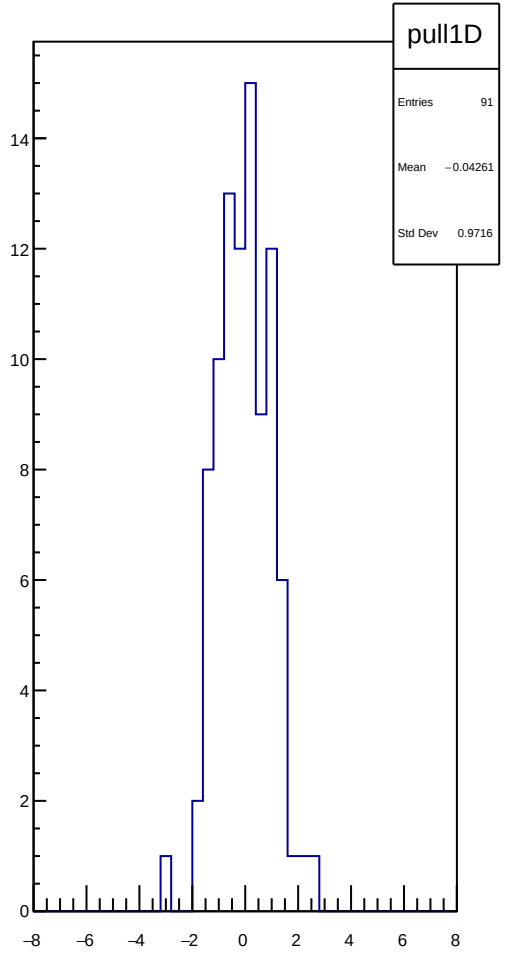

asym_atl1_dit_correction_rms vs run
χ² / ndf 8.815e+04 / 90
p0 755 ± 0.5763
1100
1000
900
800
700
600
500

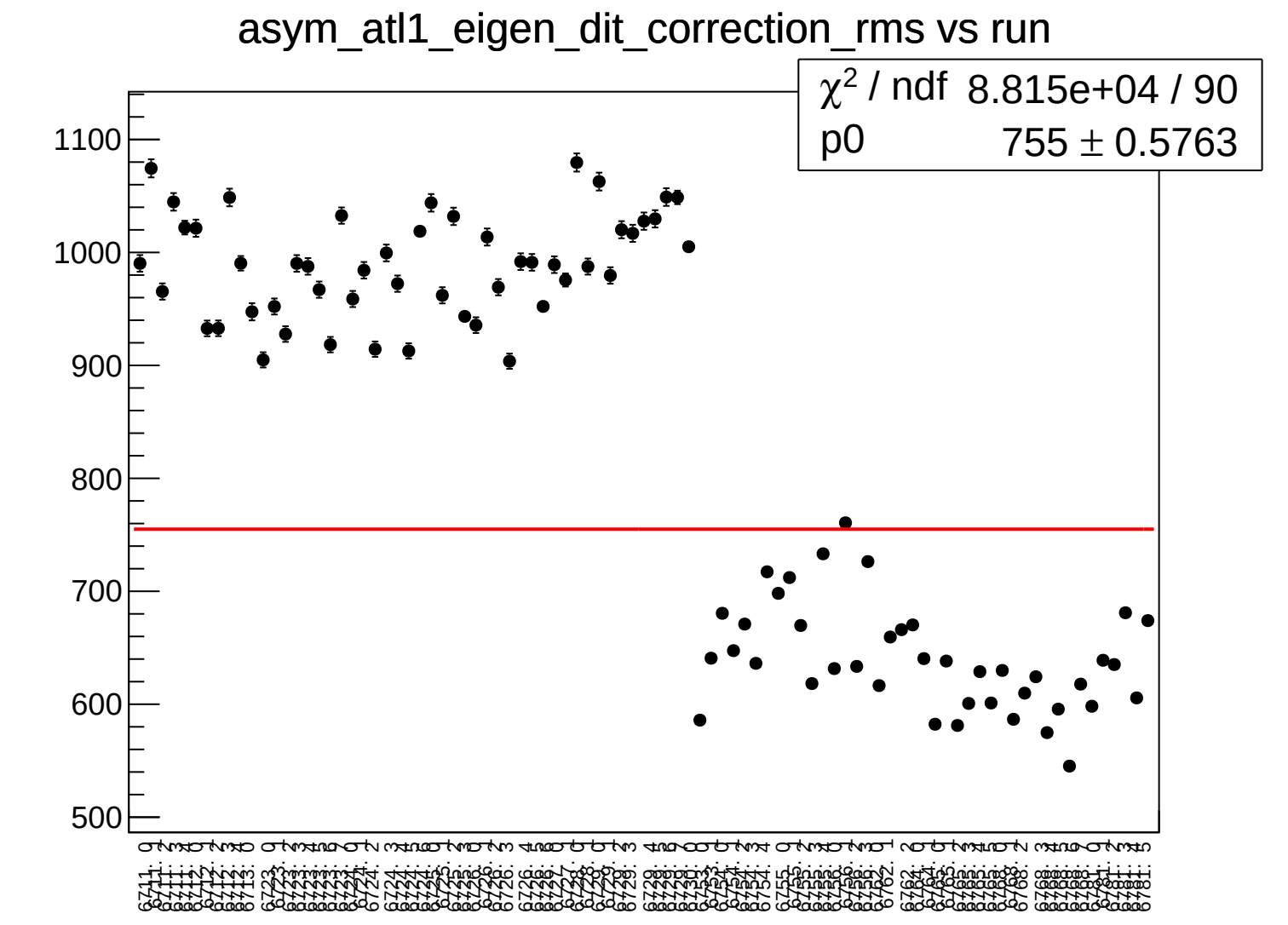

eigen_dit_asym_atl1_mean vs run
×10^3
χ² / ndf 96.19 / 90
p0 20.94 ± 2484
100
50
0
−50
−100
pull
Entries 91
Mean 3780
Std Dev 0
3
2
1
0
−1
−2

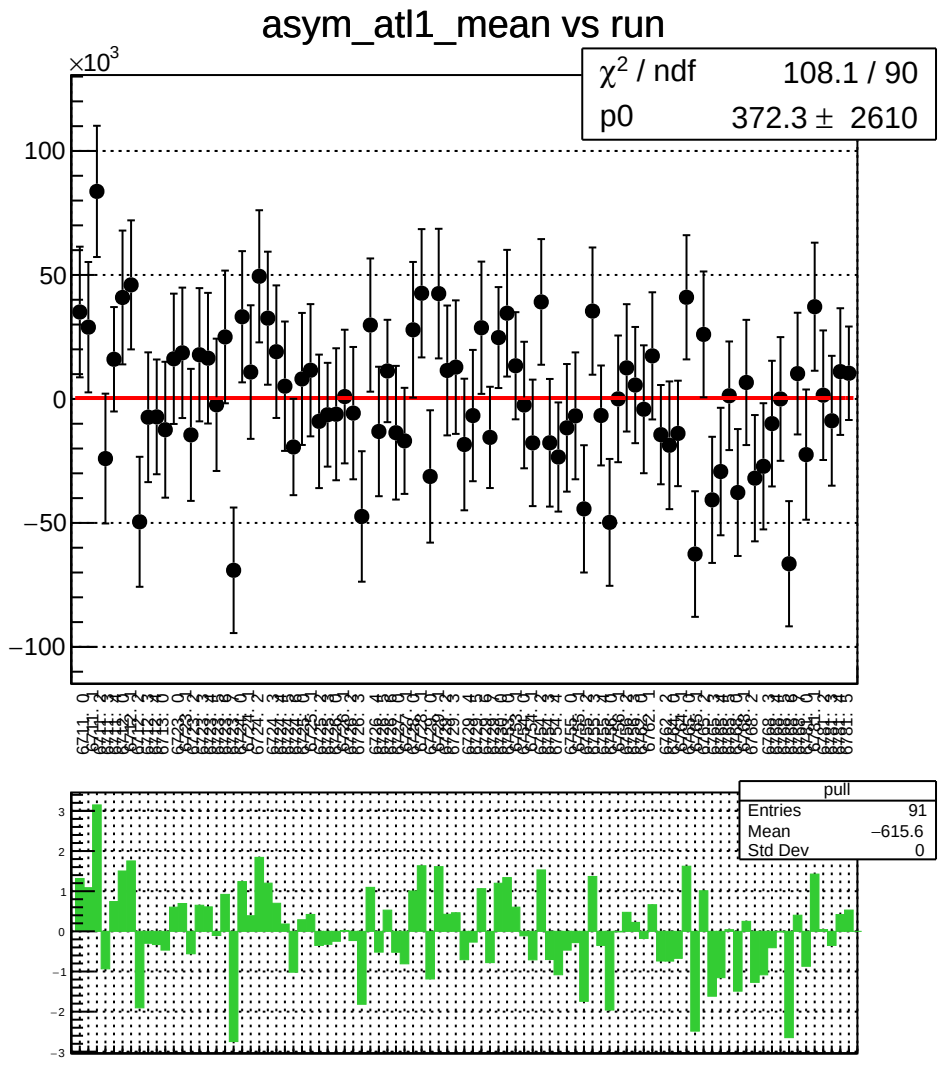

pull1D
Entries 91
Mean −0.001774
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

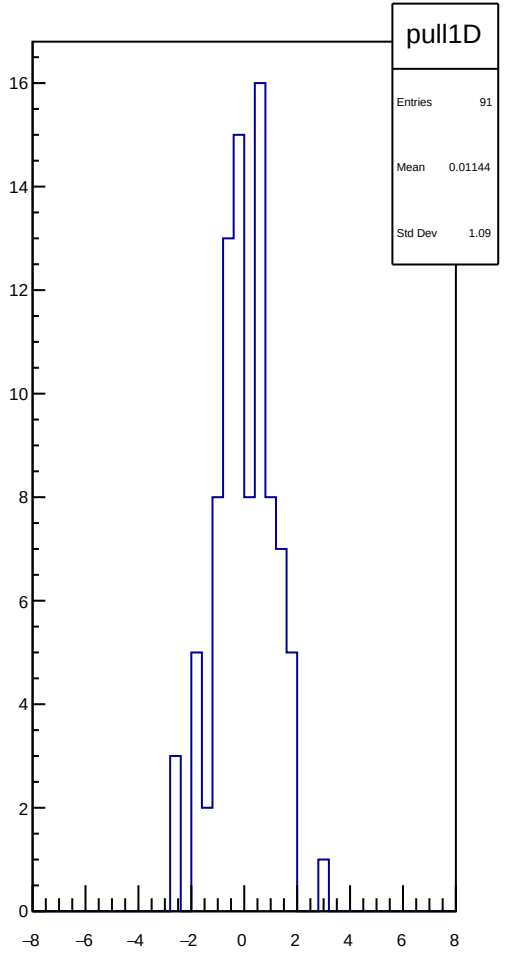

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 187.8 / 90
p0 2360 ± 1.757
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280

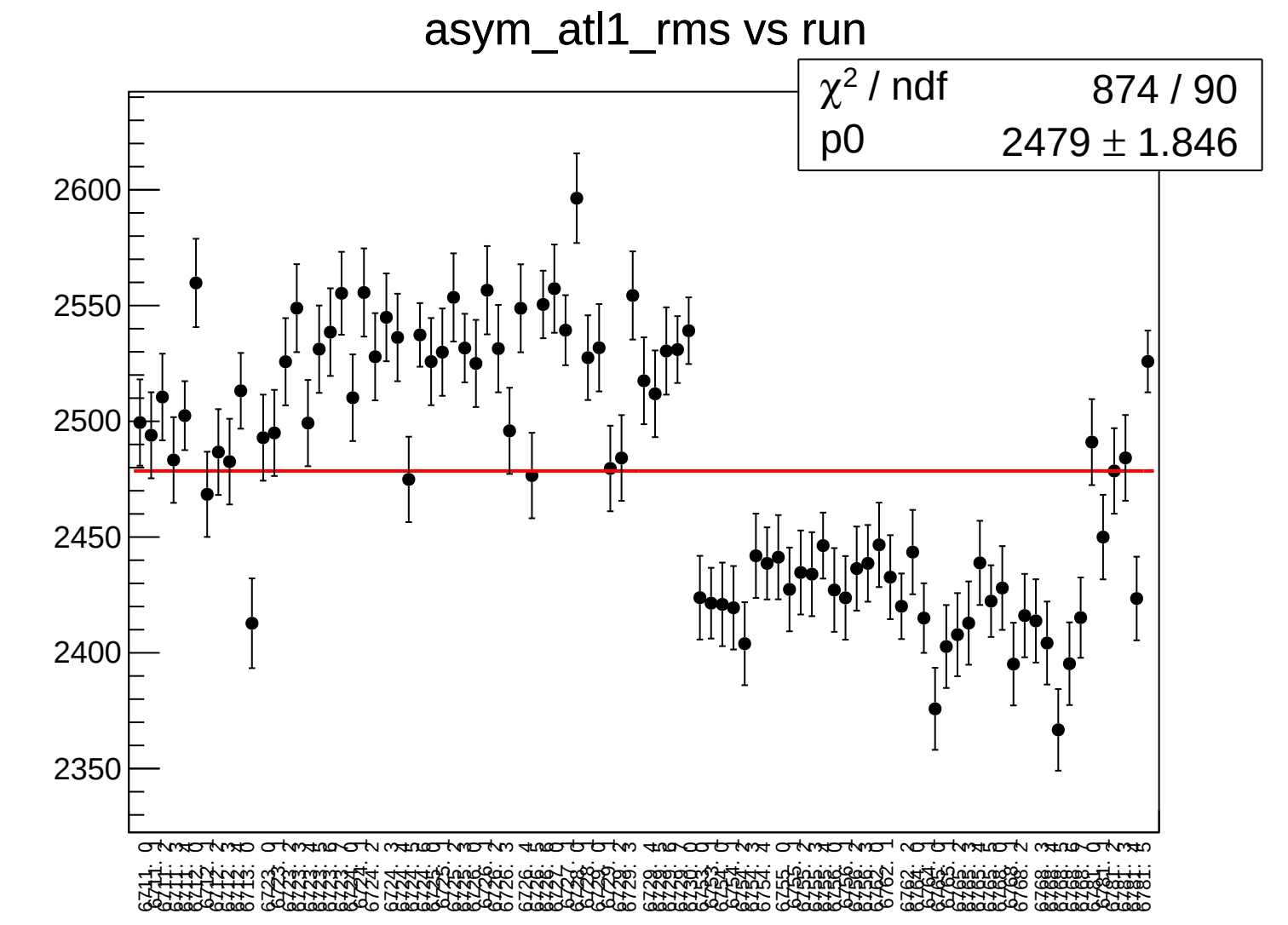

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 86.07 / 90
p0 −275.8 ± 815.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −33.62
Std Dev 0
2
1
0
−1
−2
−3

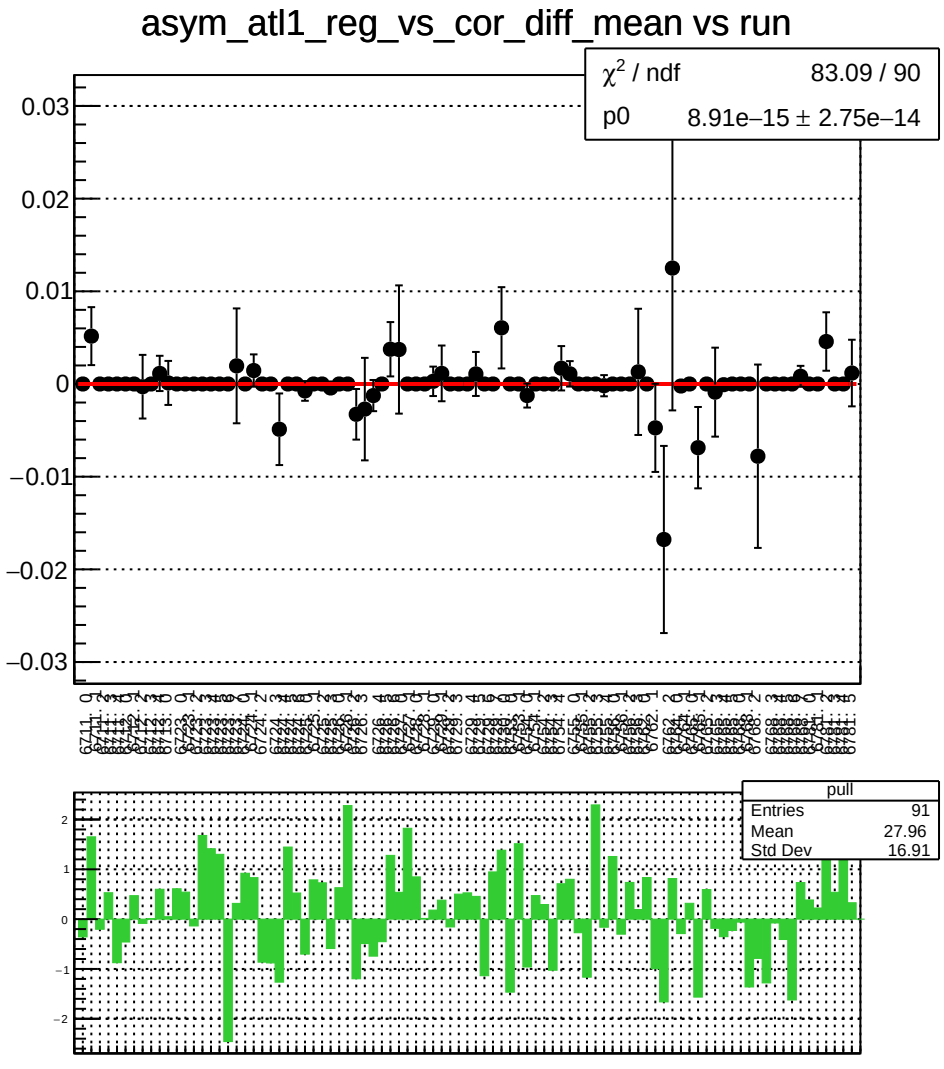

pull1D
Entries 91
Mean −0.04261
Std Dev 0.9716
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

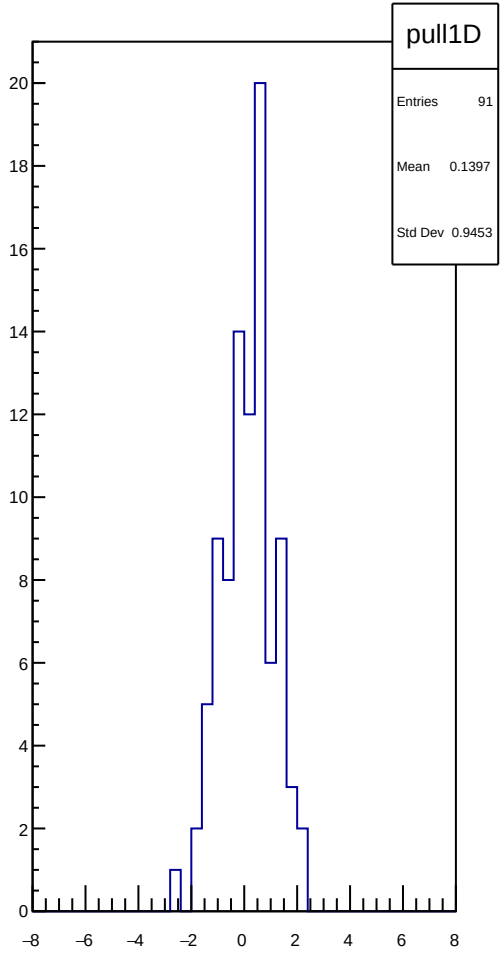

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 8.815e+04 / 90
p0 755 ± 0.5763
1100
1000
900
800
700
600
500

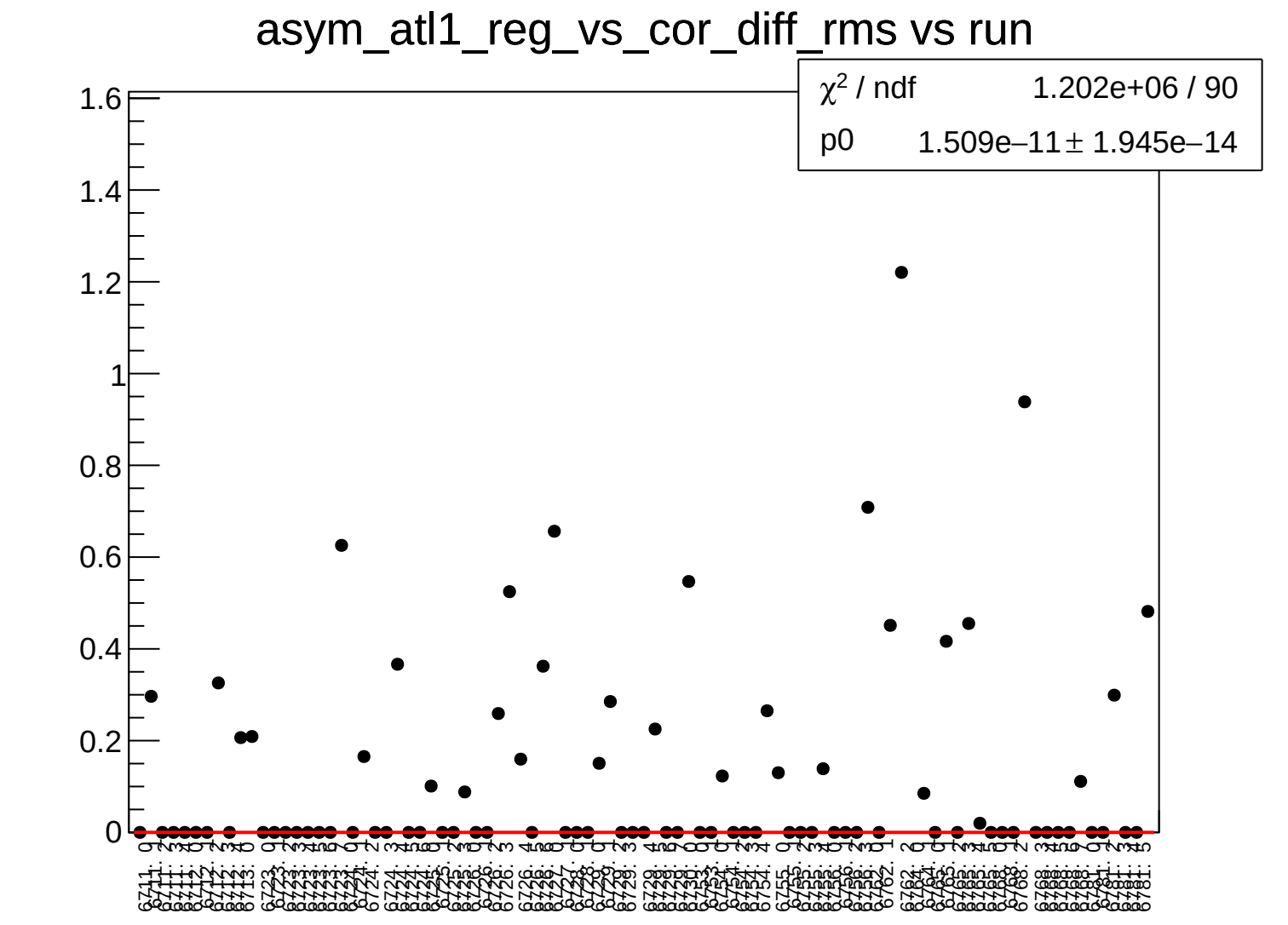

asym_atl1_mean vs run
×10^3
χ^2 / ndf 108.1 / 90
p0 372.3 ± 2610
100
50
0
−50
−100
pull
Entries 91
Mean −615.6
Std Dev 0
3
2
1
0
−1
−2
−3

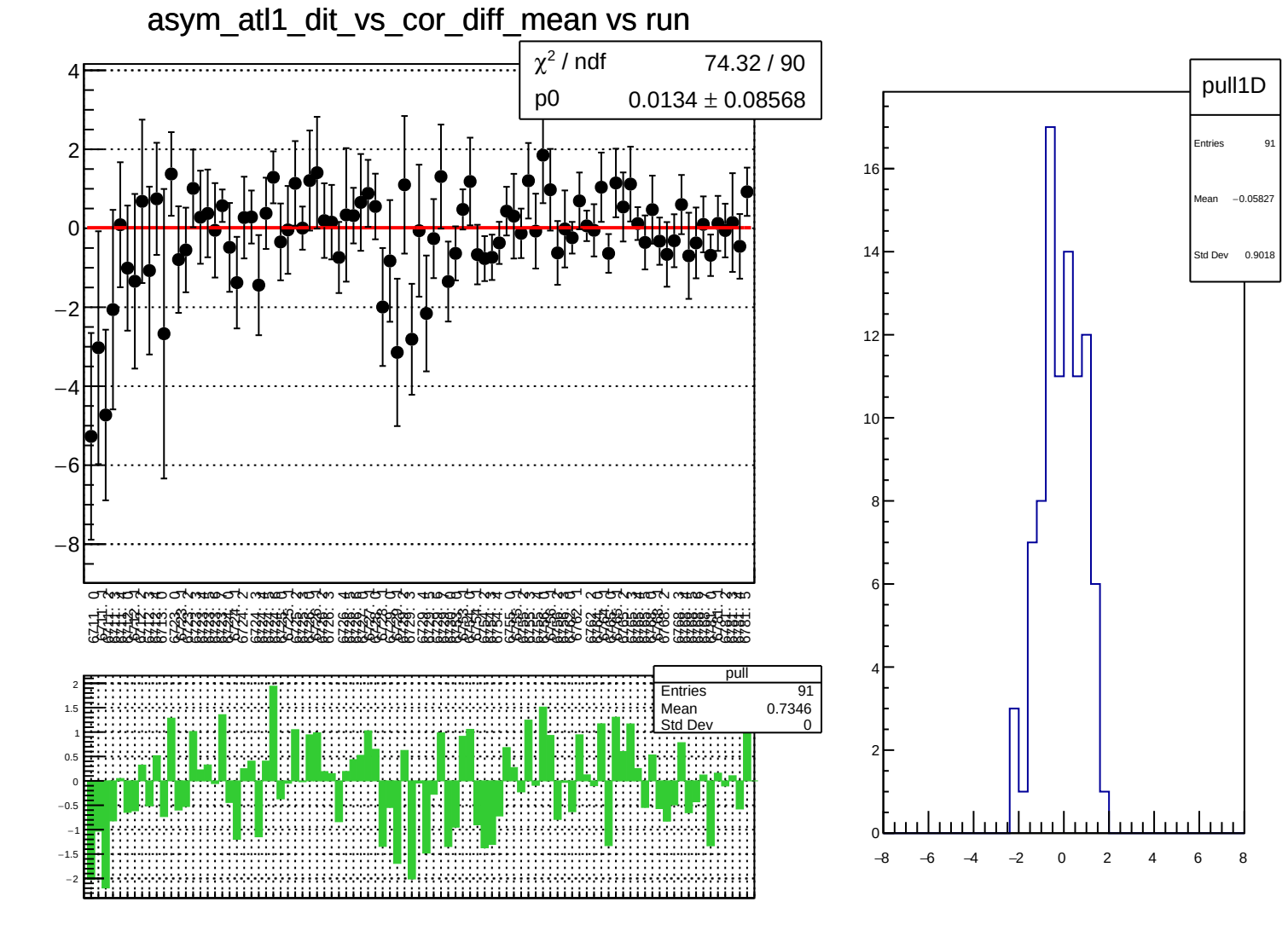

pull1D
Entries 91
Mean 0.01144
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

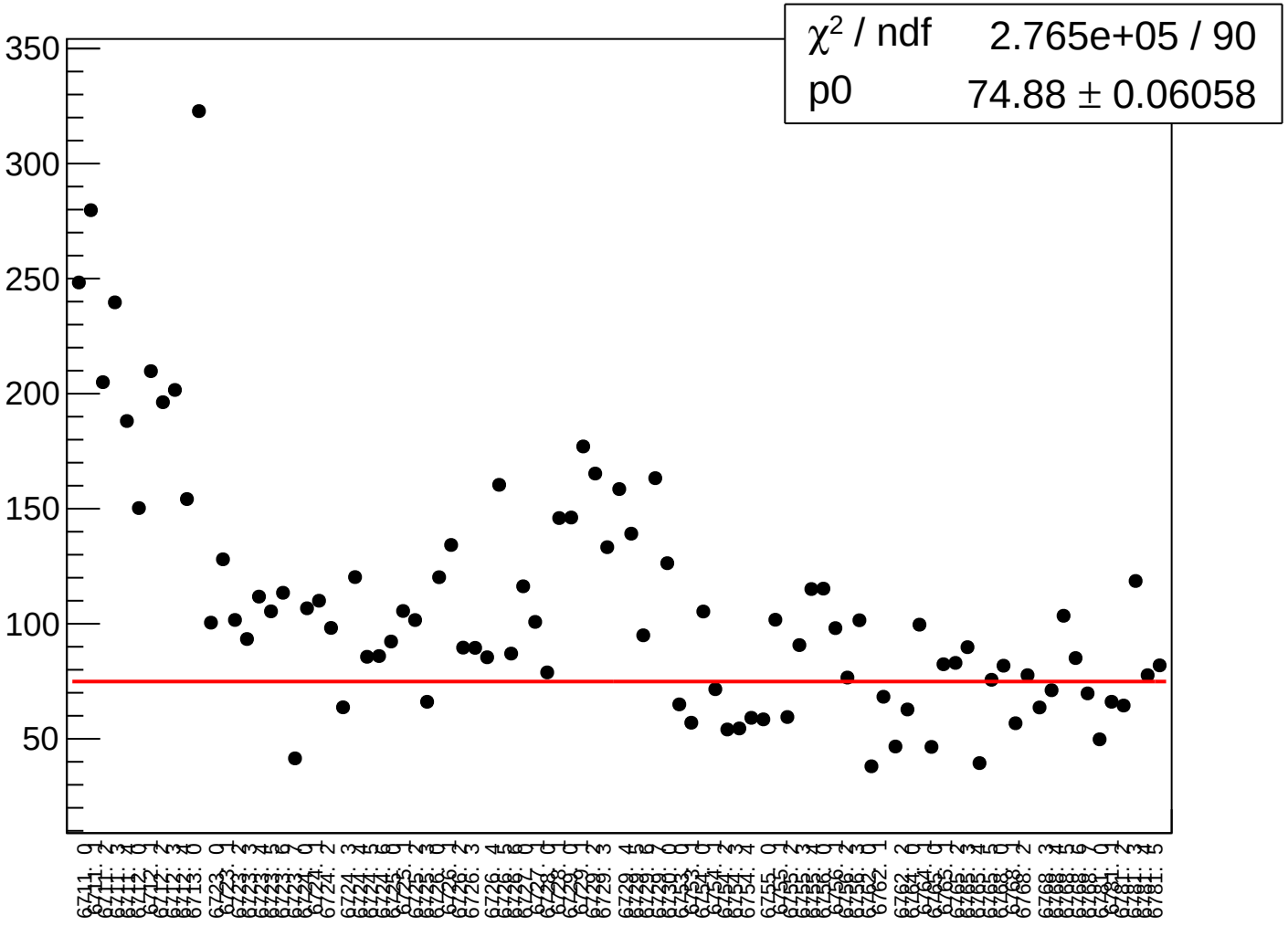

asym_atl1_rms vs run
χ² / ndf 874 / 90
p0 2479 ± 1.846
2600
2550
2500
2450
2400
2350

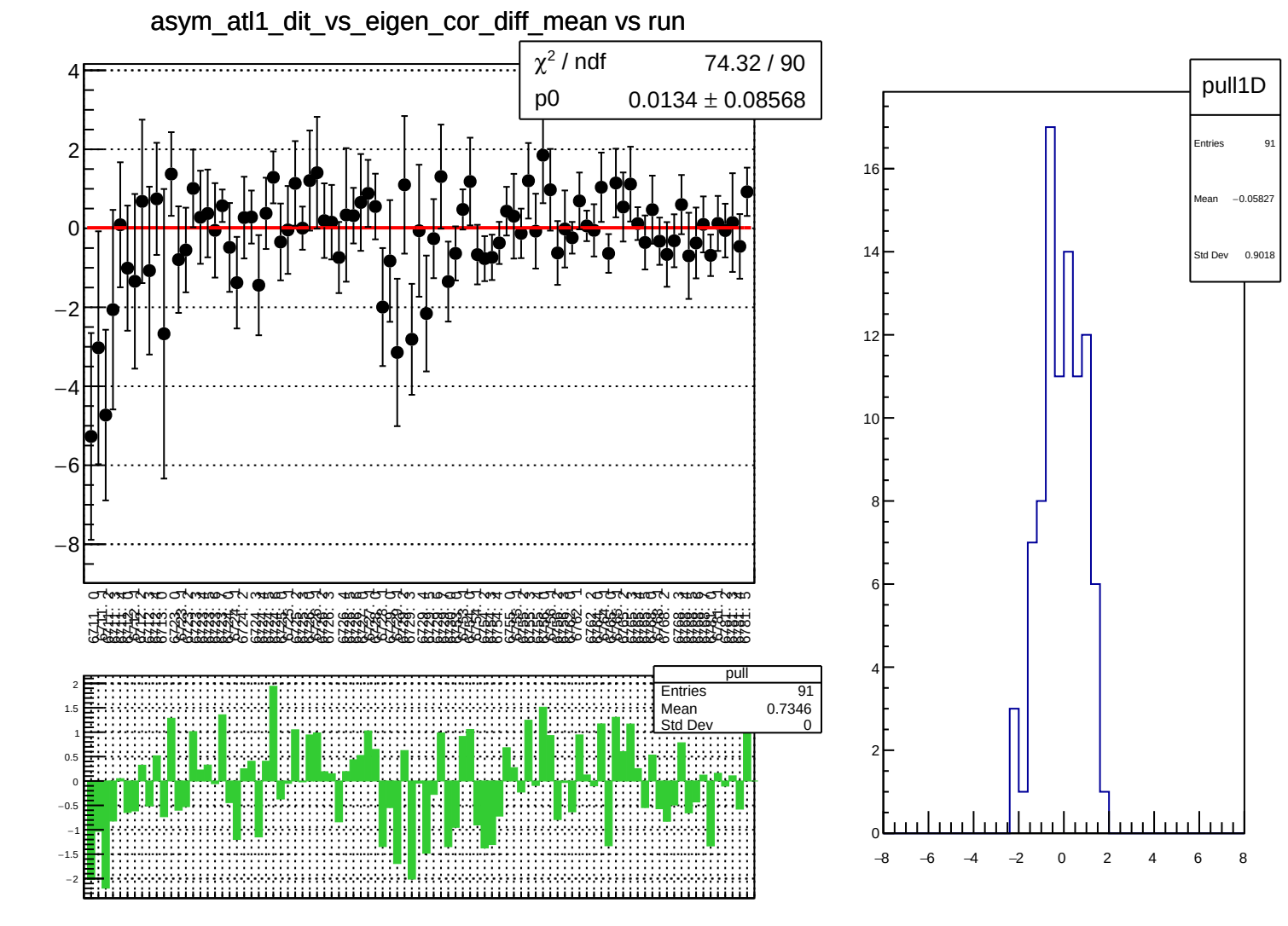

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 83.09 / 90
p0 8.91e−15 ± 2.75e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 91
Mean 27.96
Std Dev 16.91
2
1
0
−1
−2

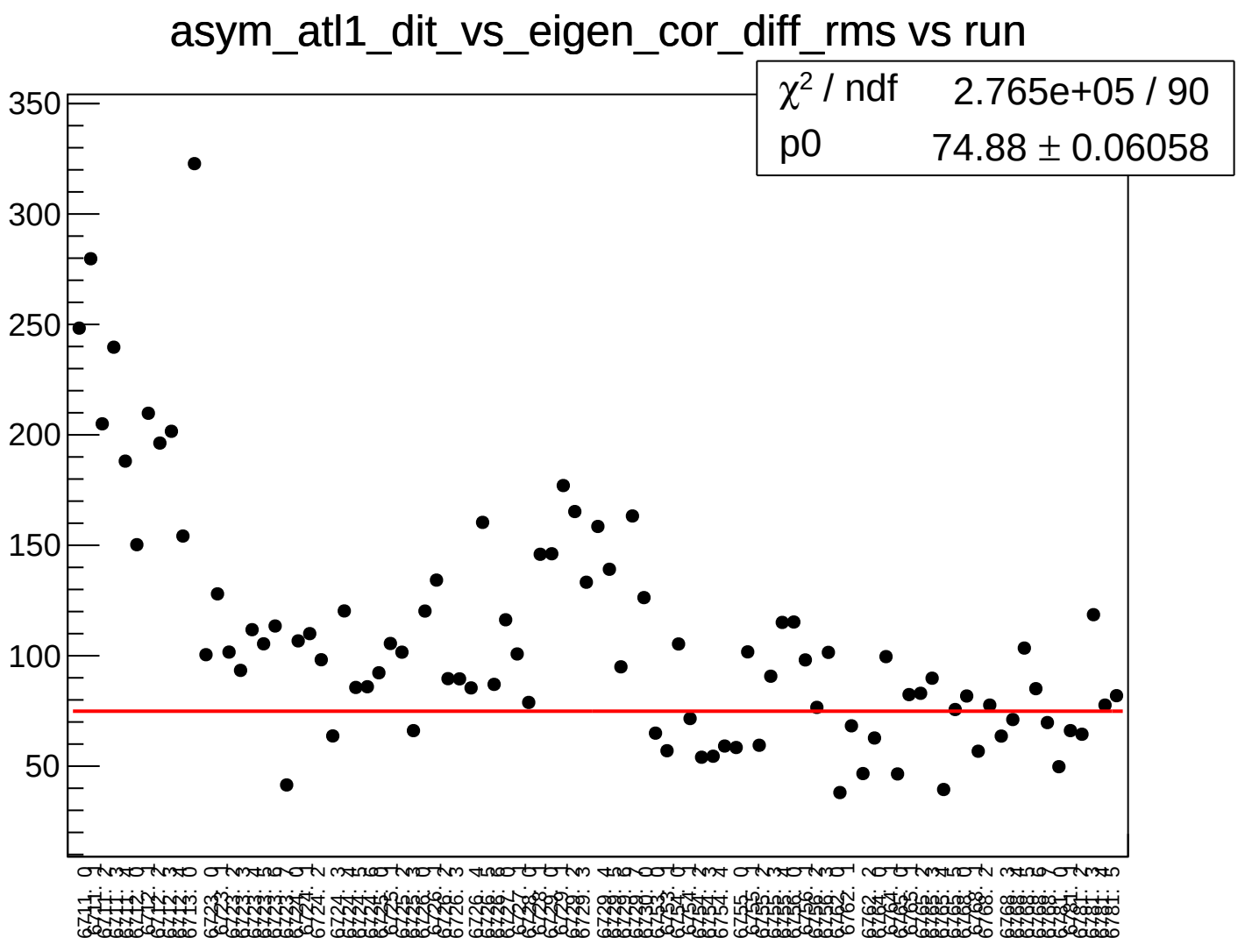

pull1D
Entries 91
Mean 0.1397
Std Dev 0.9453
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

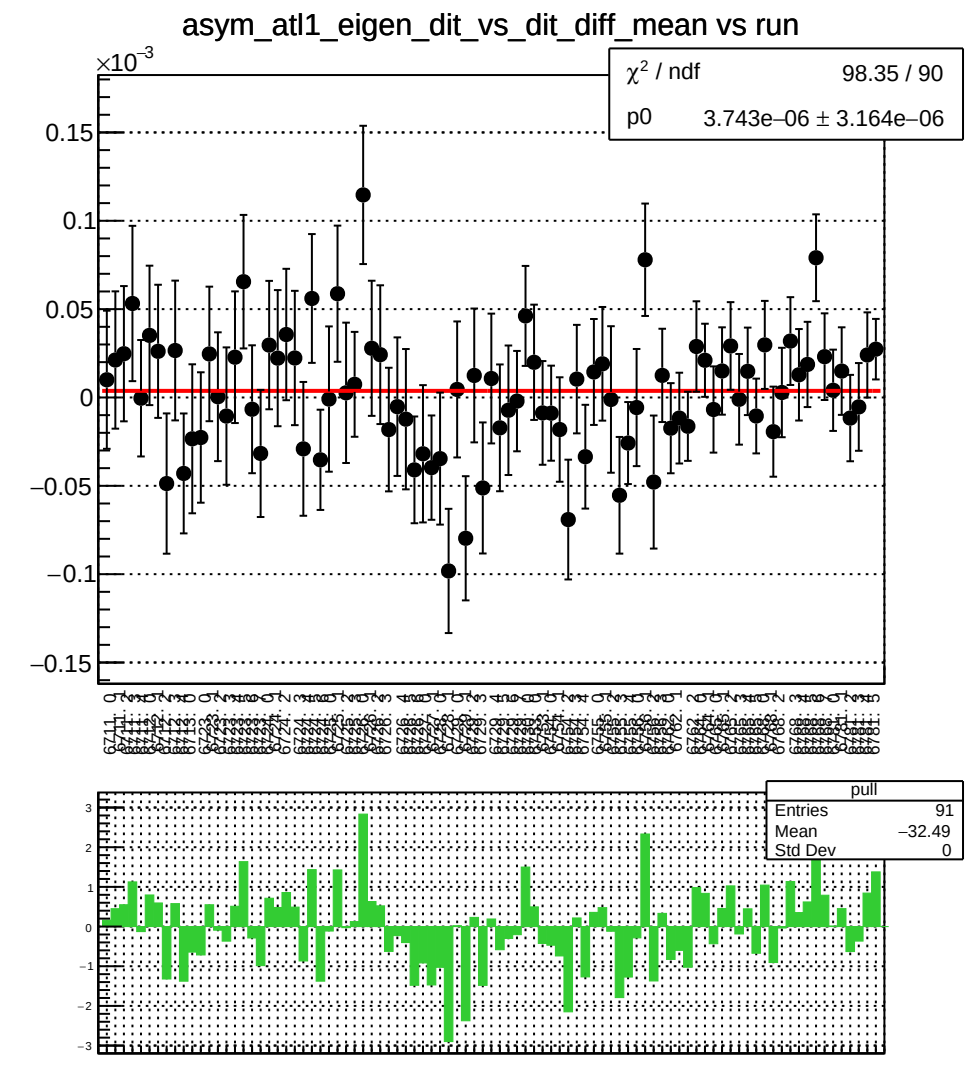

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.202e+06 / 90
p0 1.509e−11 ± 1.945e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

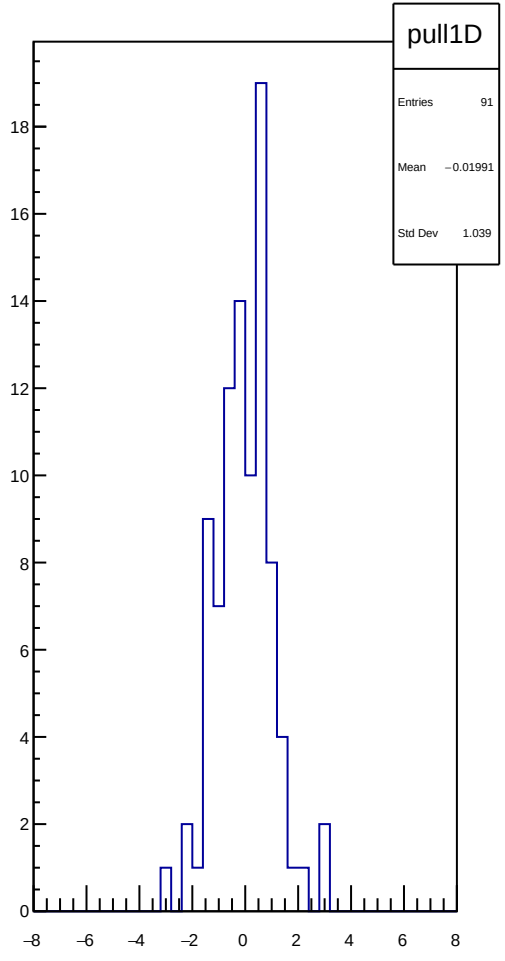

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 74.32 / 90
p0 0.0134 ± 0.08568
pull
Entries 91
Mean 0.7346
Std Dev 0
pull1D
Entries 91
Mean −0.05827
Std Dev 0.9018

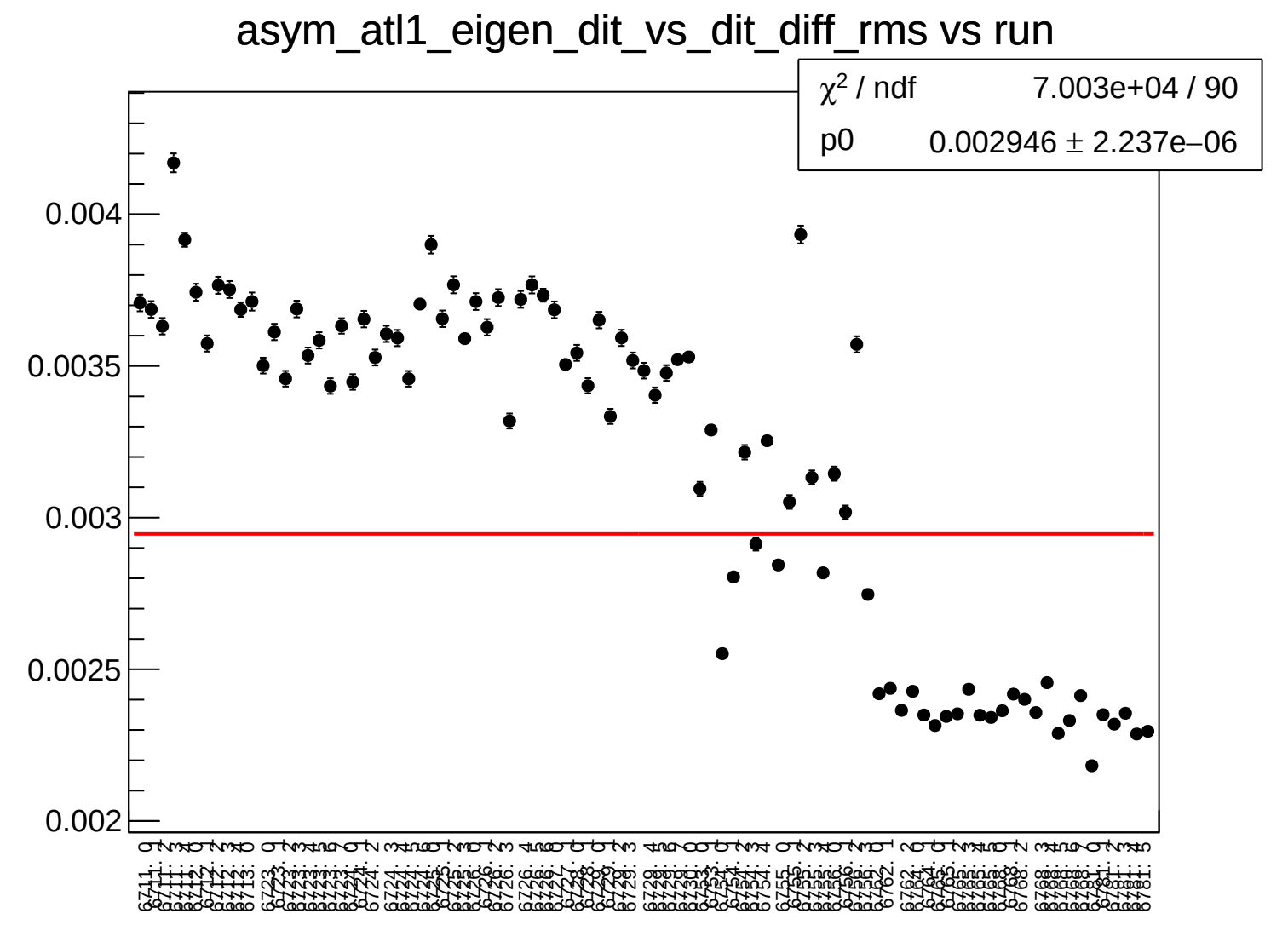

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.765e+05 / 90
p0 74.88 ± 0.06058
350
300
250
200
150
100
50

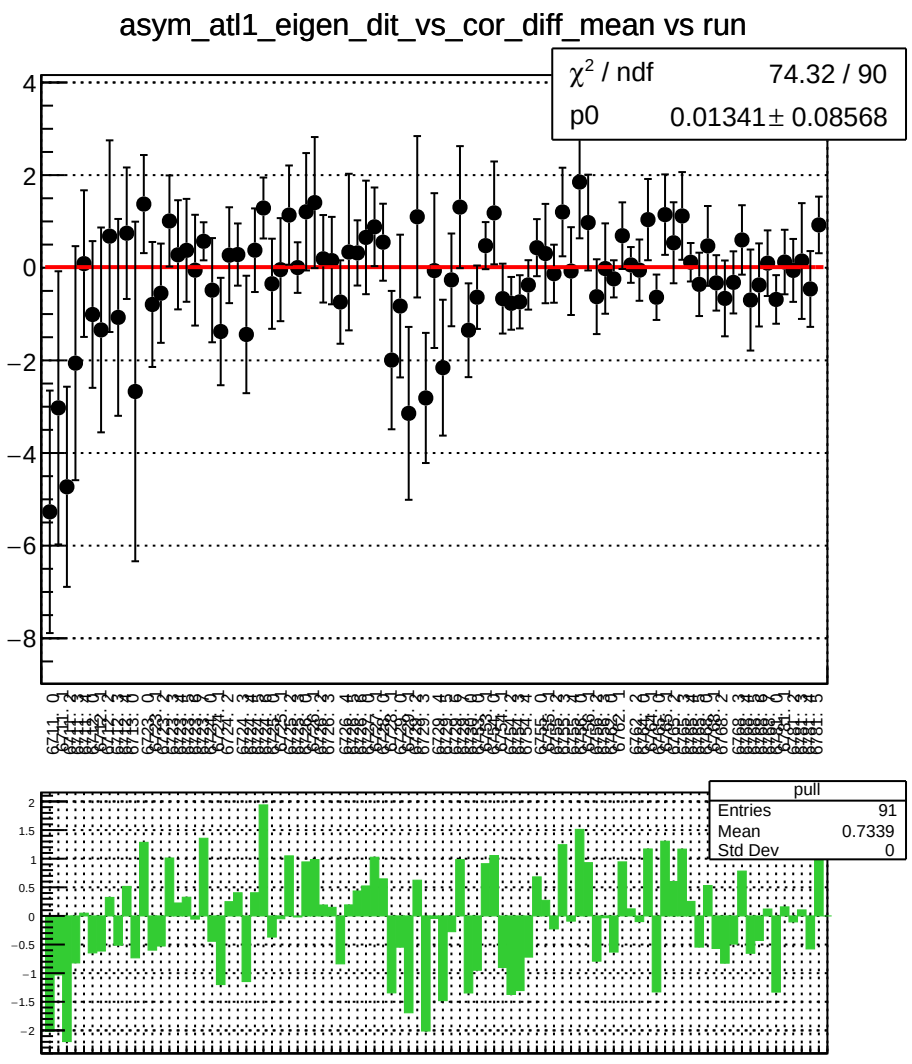

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.32 / 90
p0 0.0134 ± 0.08568
pull
Entries 91
Mean 0.7346
Std Dev 0
pull1D
Entries 91
Mean −0.05827
Std Dev 0.9018

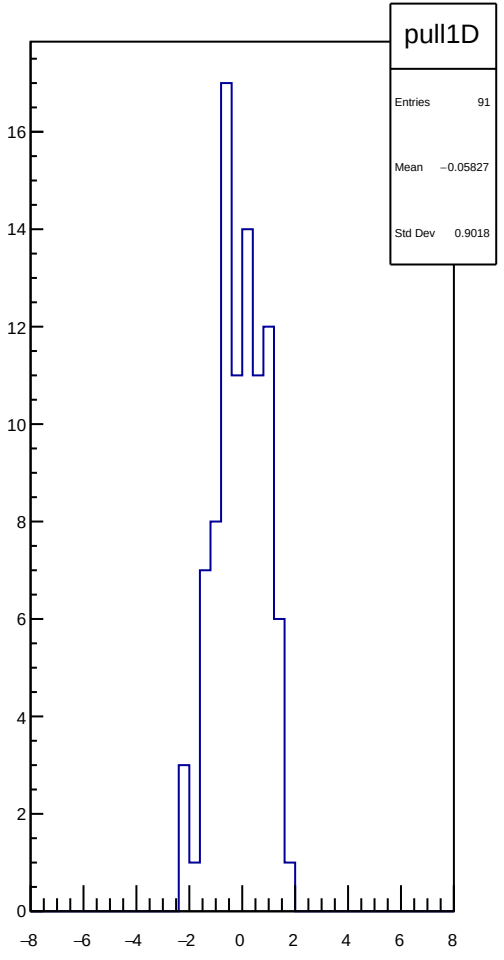

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.765e+05 / 90
p0 74.88 ± 0.06058
350
300
250
200
150
100
50

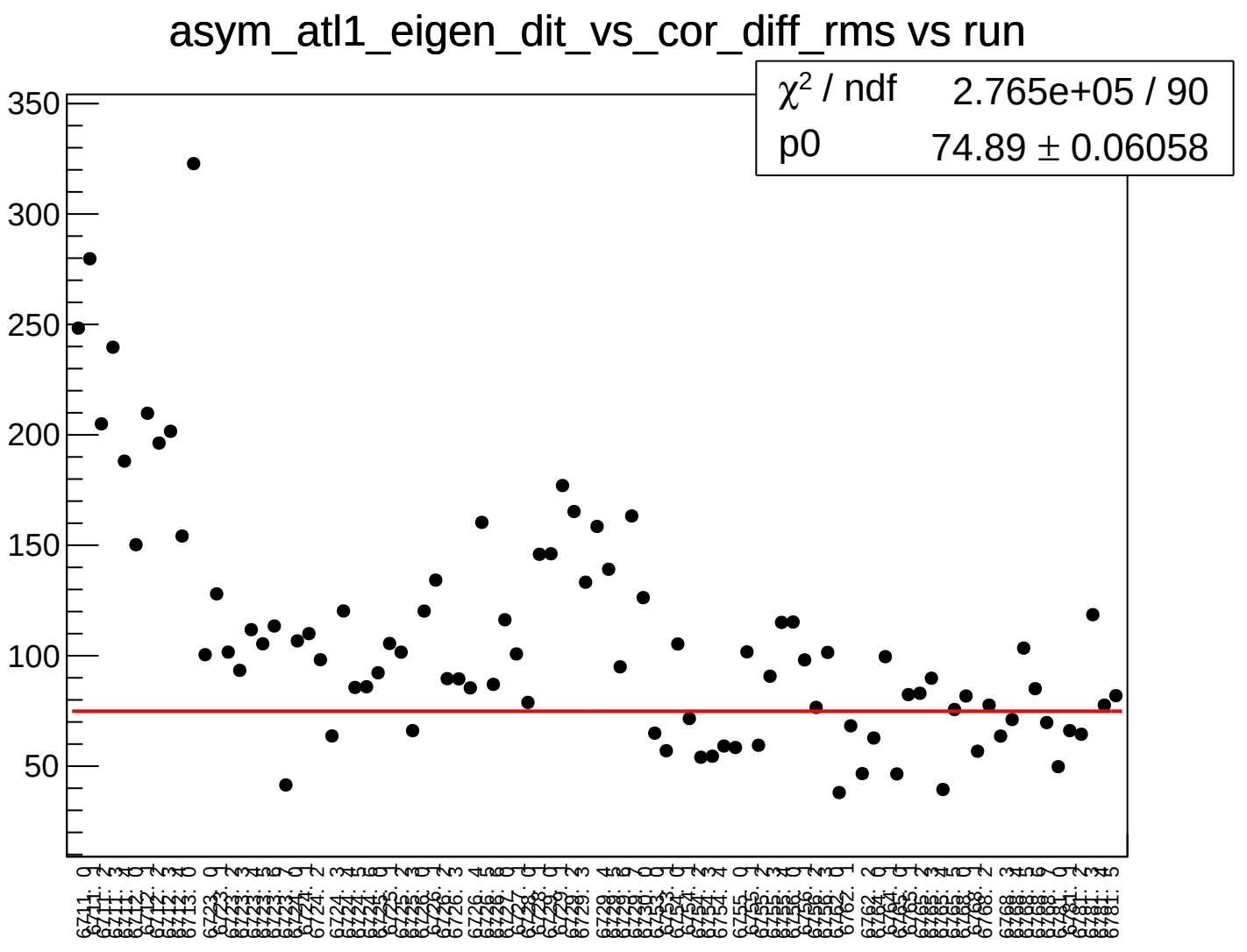

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.35 / 90
p0 3.743e−06 ± 3.164e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean −32.49
Std Dev 0
3
2
1
0
−1
−2
−3

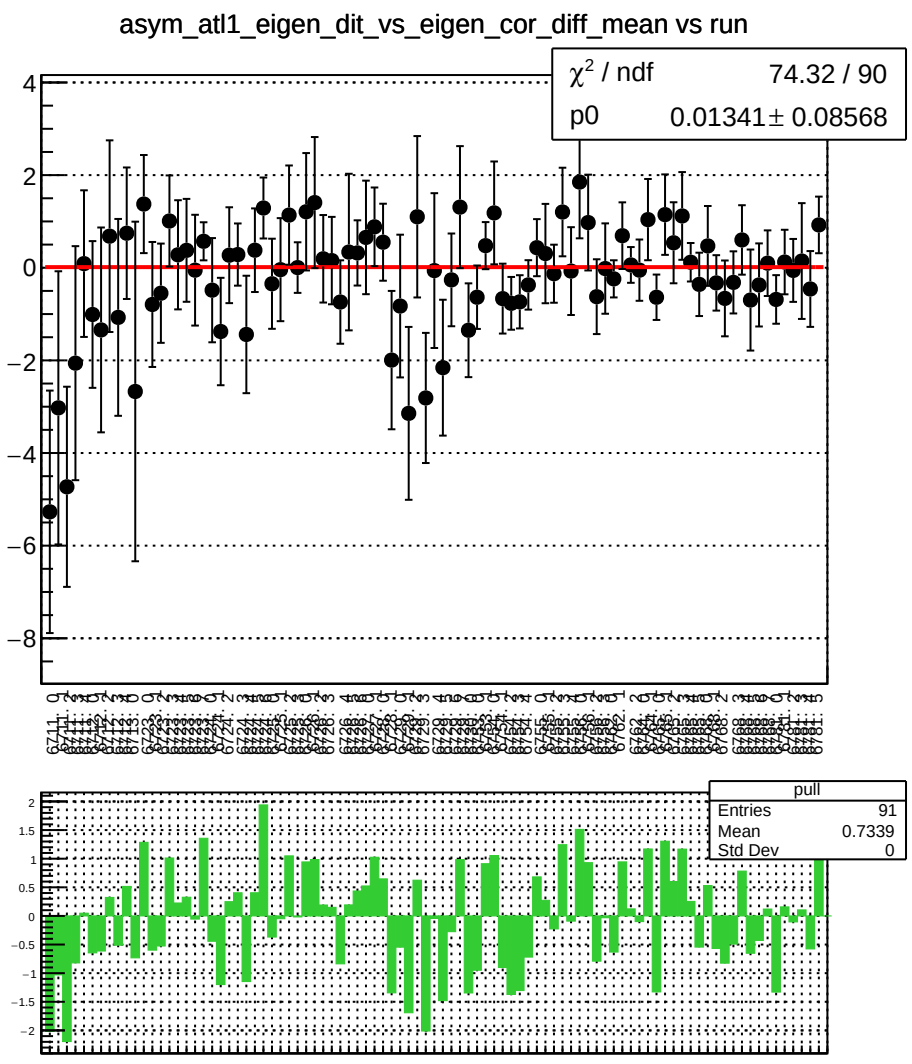

pull1D
Entries 91
Mean −0.01991
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

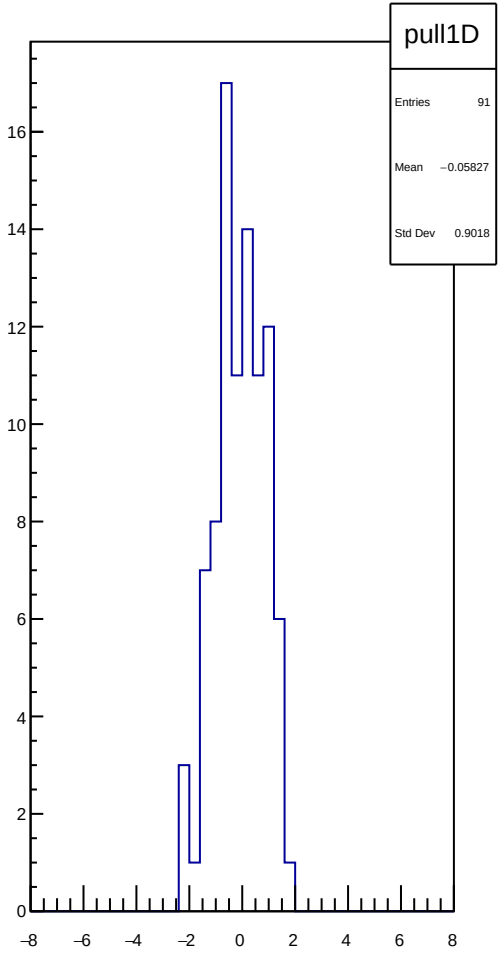

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.003e+04 / 90
p0 0.002946 ± 2.237e−06
0.004
0.0035
0.003
0.0025
0.002

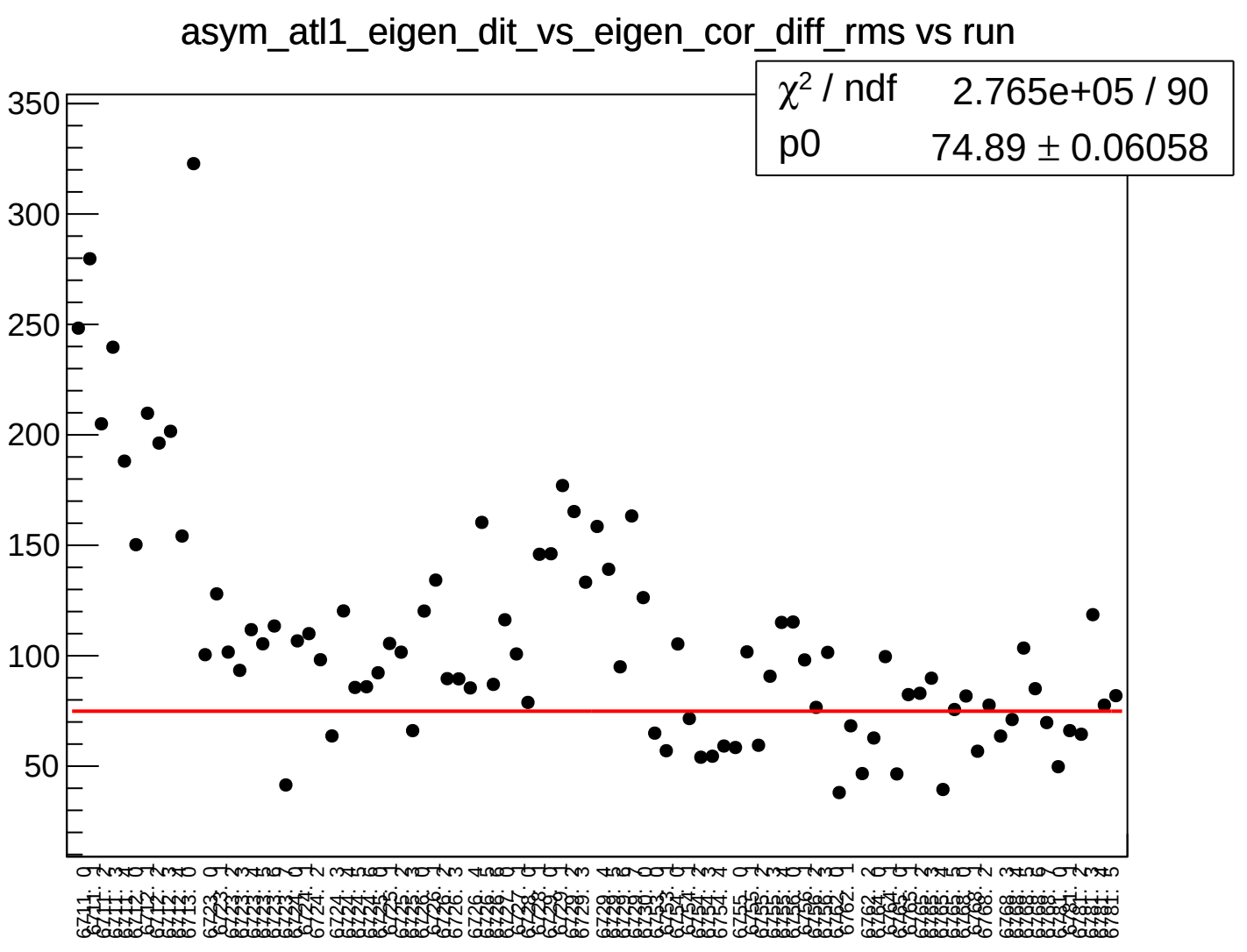

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.32 / 90
p0 0.01341 ± 0.08568
pull
Entries 91
Mean 0.7339
Std Dev 0

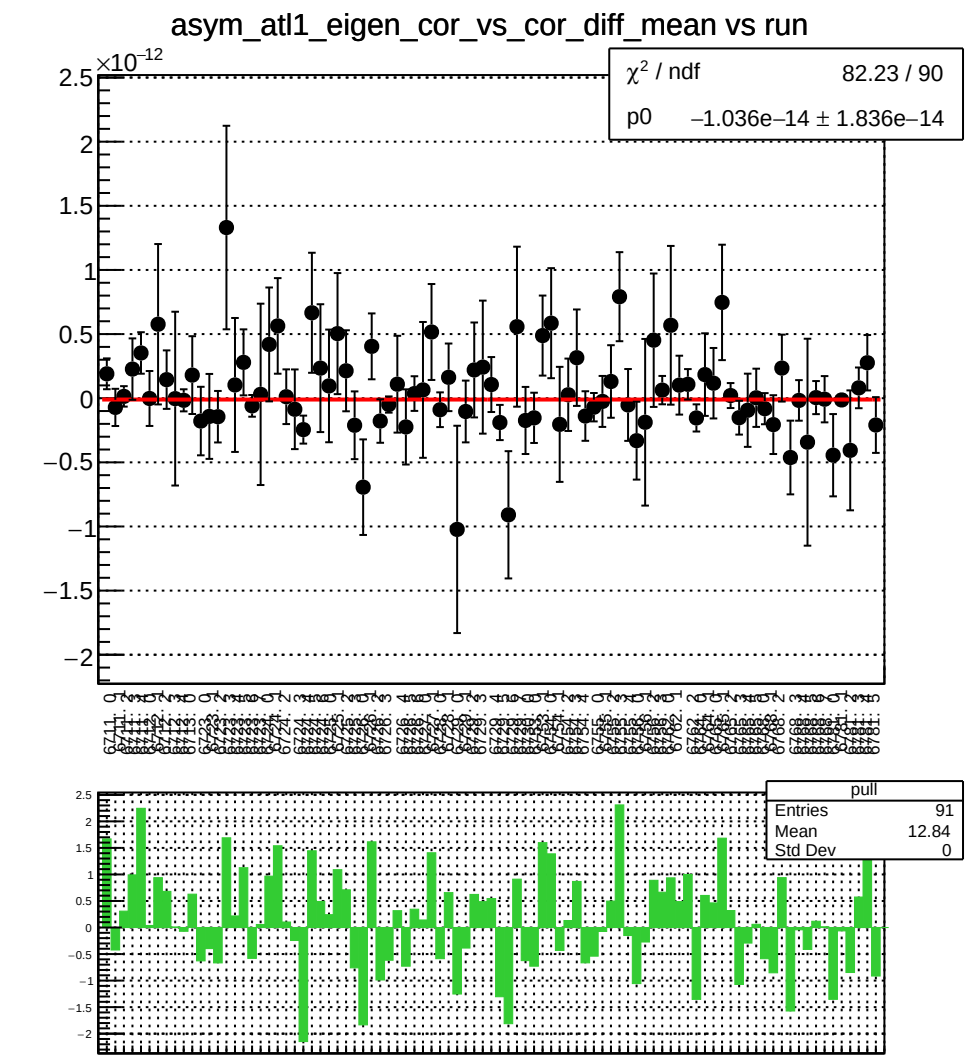

pull1D
Entries 91
Mean −0.05827
Std Dev 0.9018

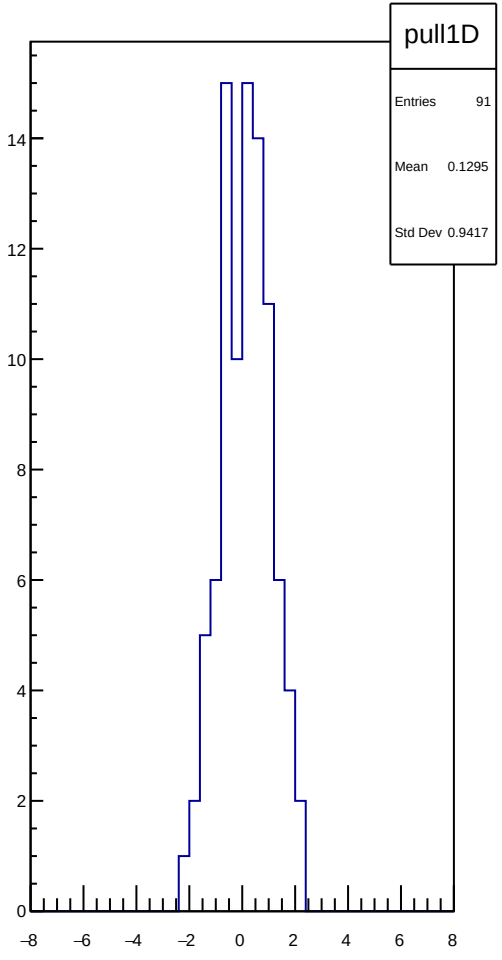

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.765e+05 / 90
p0 74.89 ± 0.06058
350
300
250
200
150
100
50

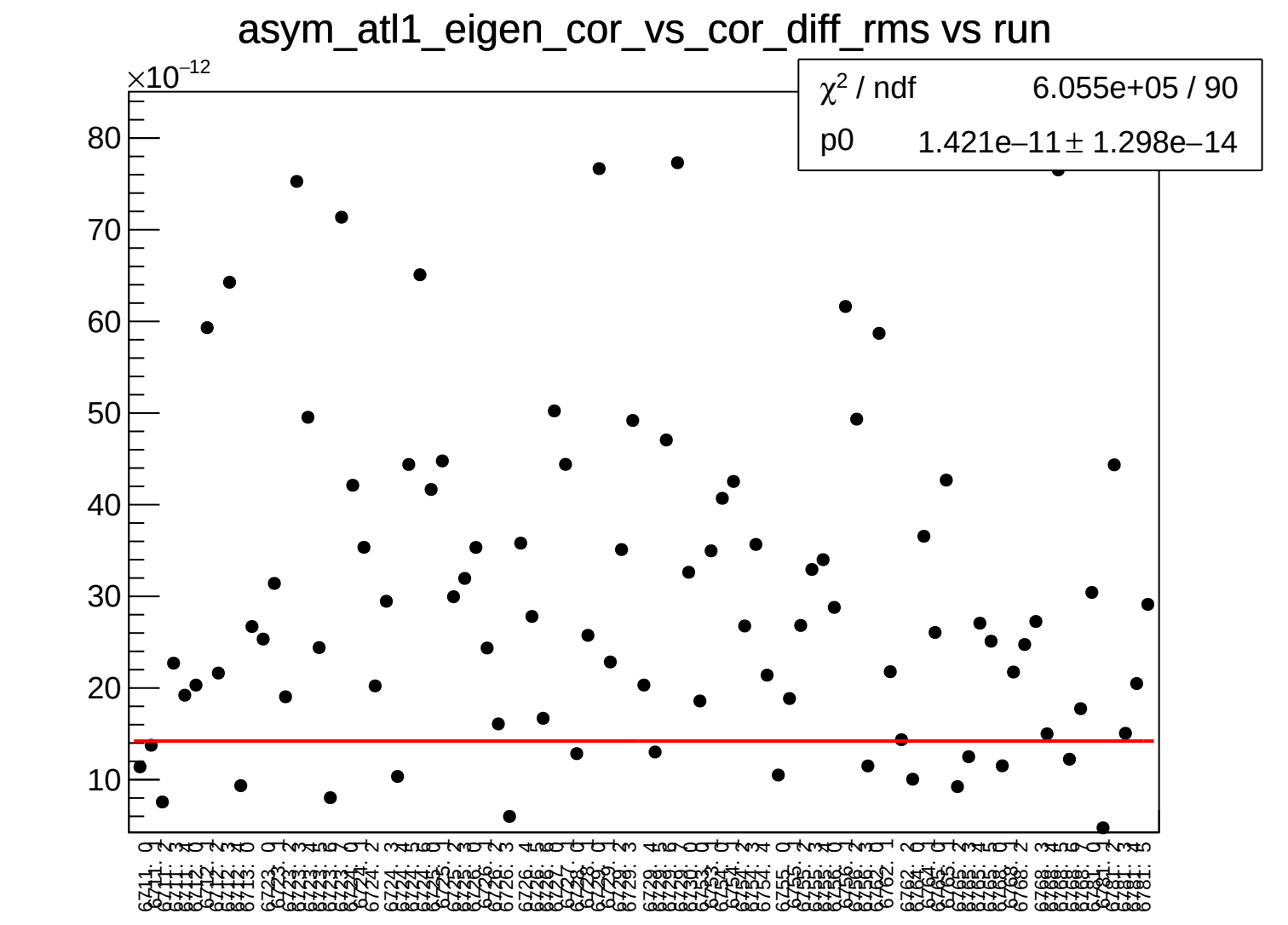

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.32 / 90
p0 0.01341 ± 0.08568
pull
Entries 91
Mean 0.7339
Std Dev 0

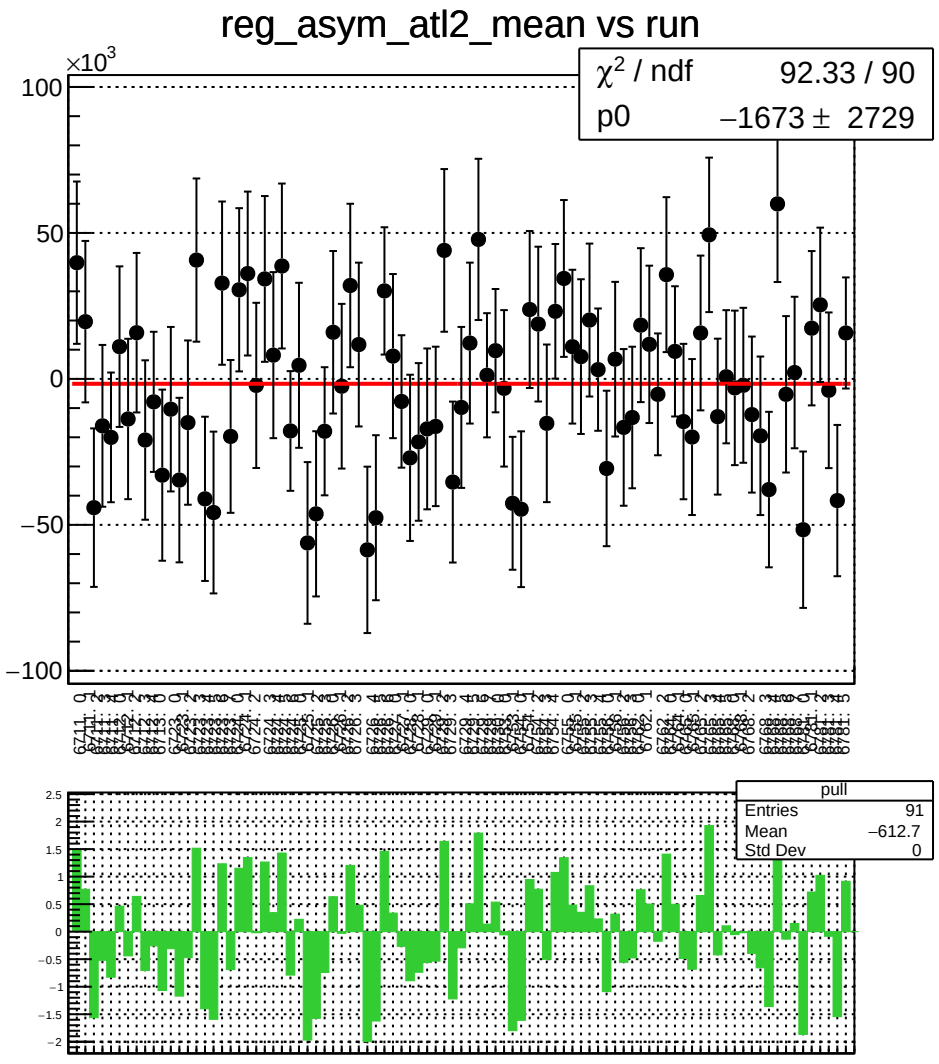

pull1D
Entries 91
Mean −0.05827
Std Dev 0.9018

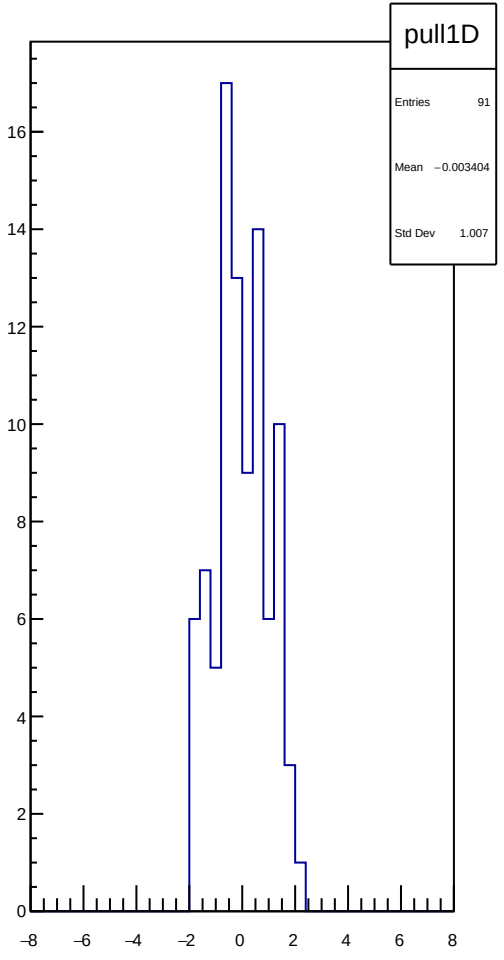

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.765e+05 / 90
p0 74.89 ± 0.06058
350
300
250
200
150
100
50

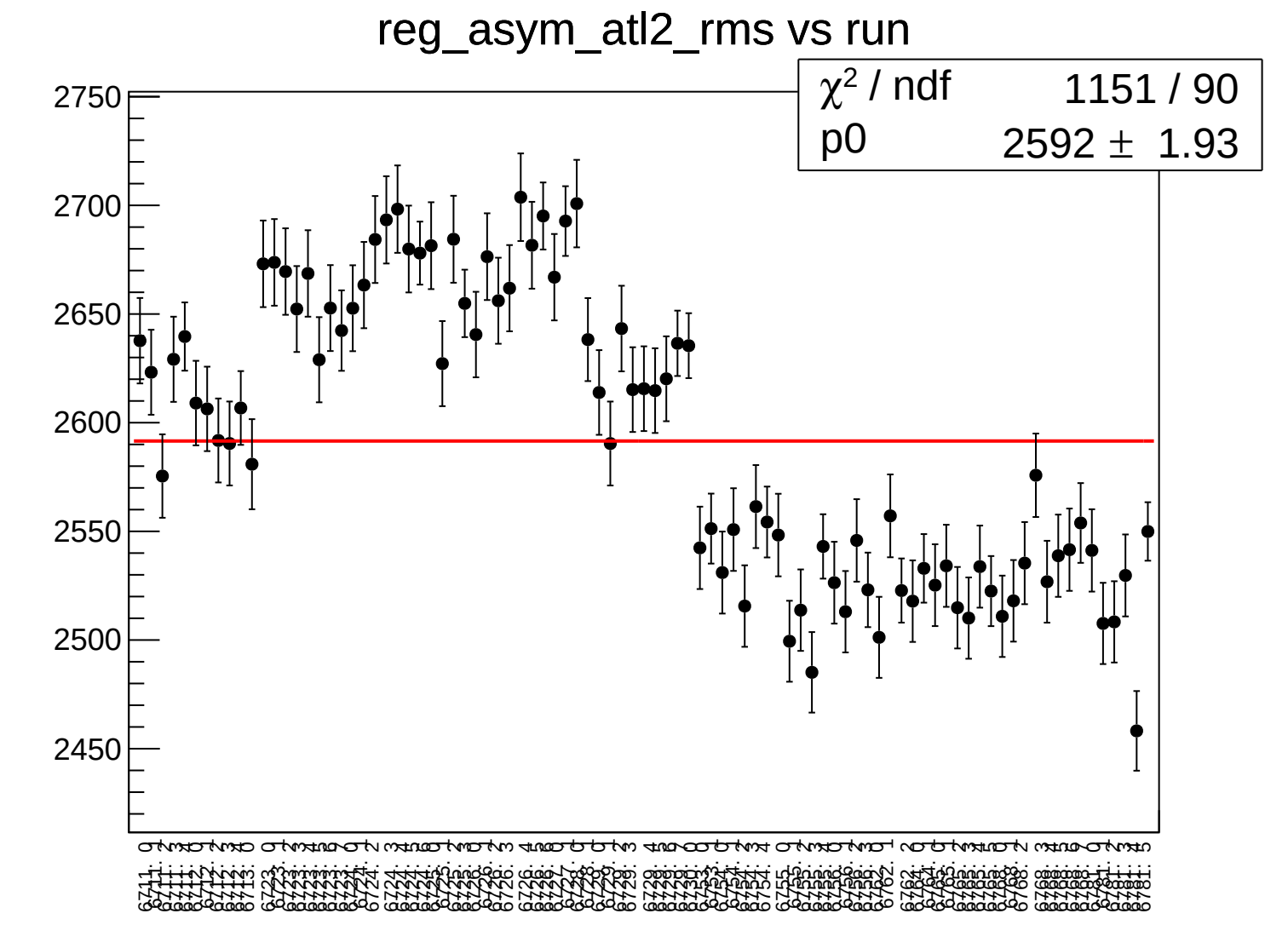

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.23 / 90
p0 −1.036e−14 ± 1.836e−14
pull
Entries 91
Mean 12.84
Std Dev 0

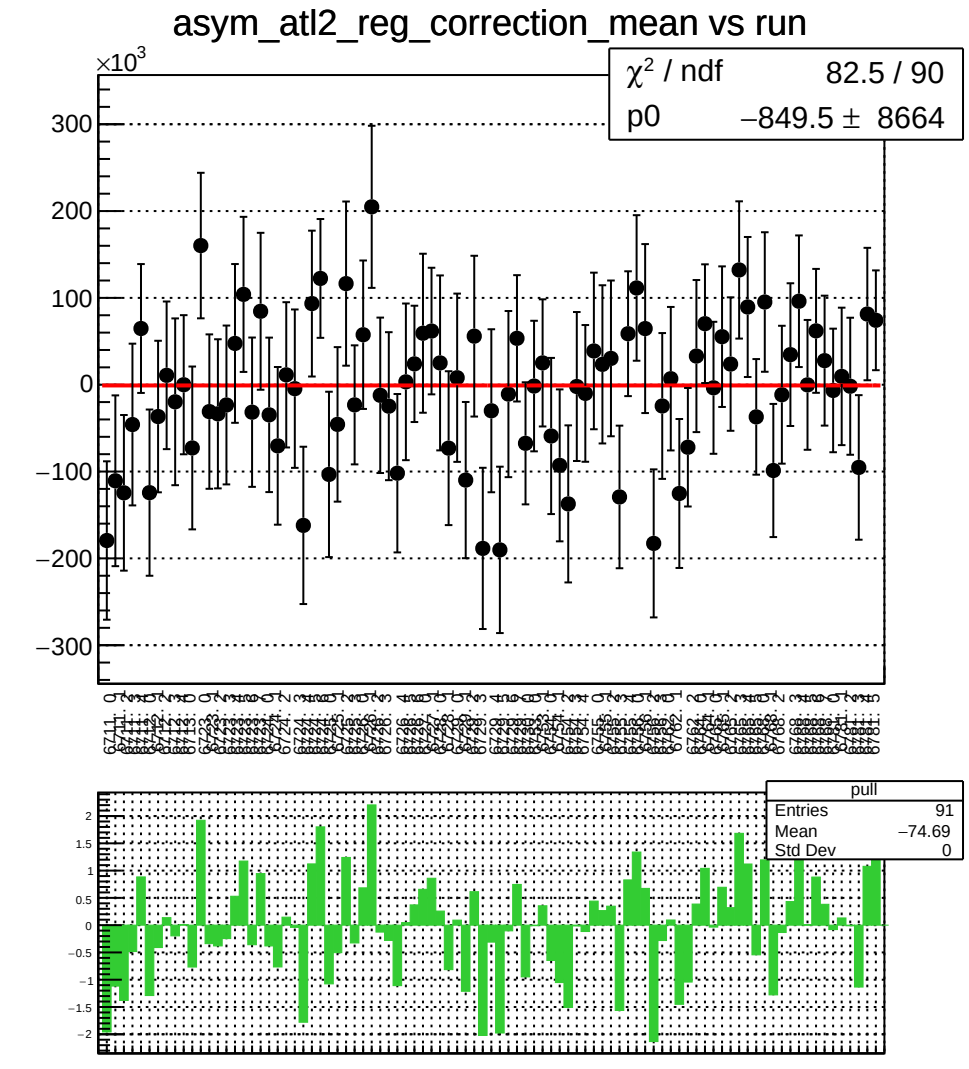

pull1D
Entries 91
Mean 0.1295
Std Dev 0.9417

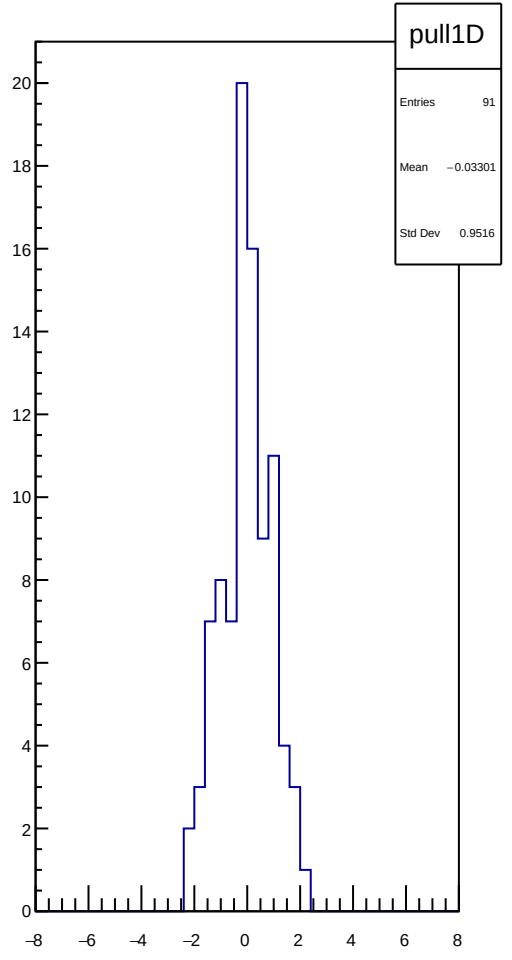

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.055e+05 / 90
p0 1.421e−11 ± 1.298e−14
80
70
60
50
40
30
20
10

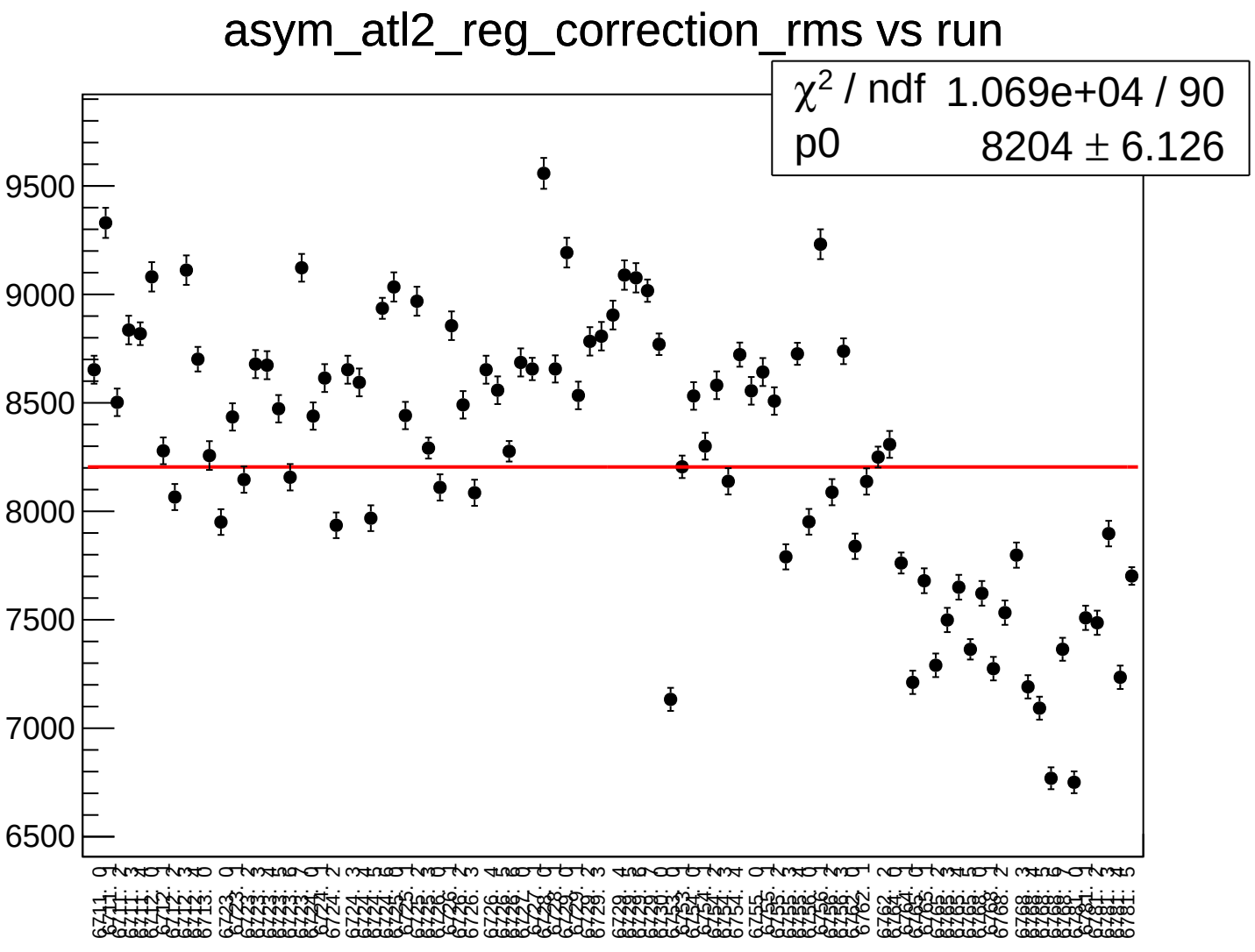

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 92.33 / 90
p0 −1673 ± 2729
pull
Entries 91
Mean −612.7
Std Dev 0

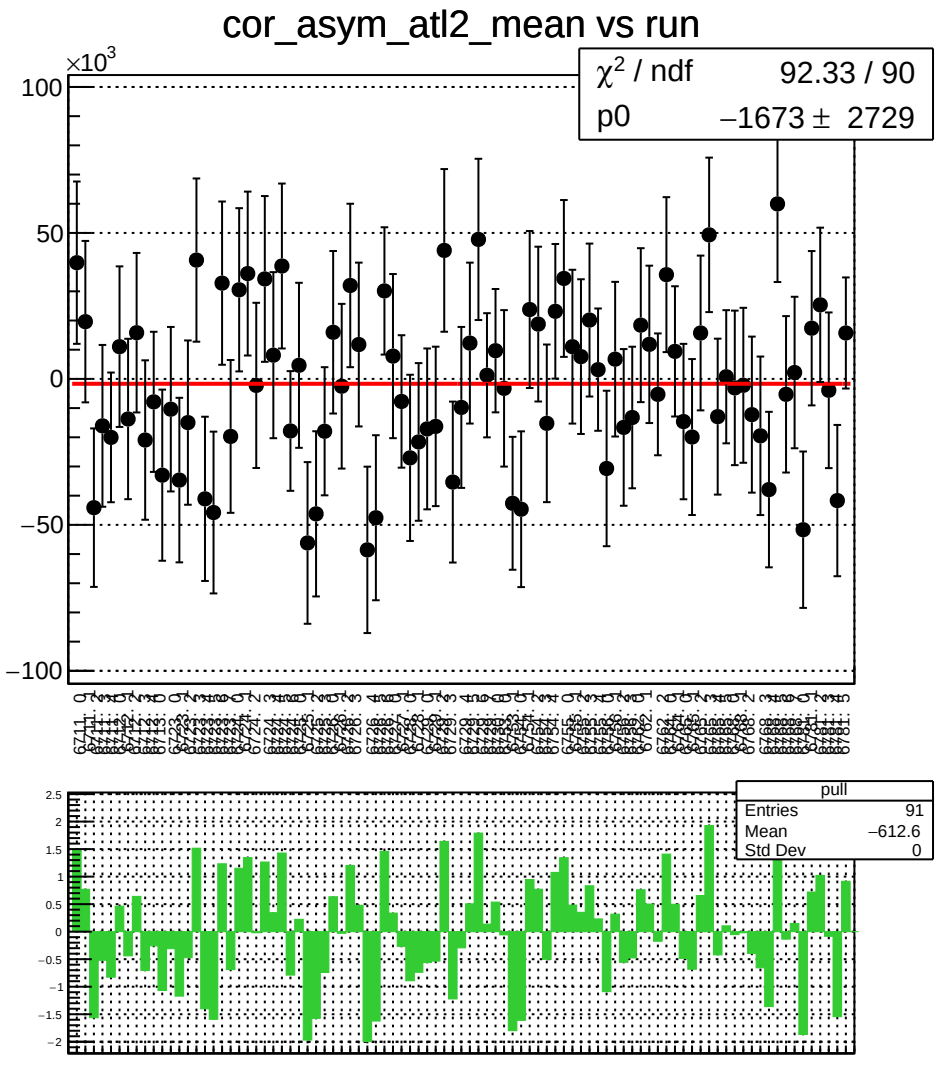

pull1D
Entries 91
Mean −0.003404
Std Dev 1.007

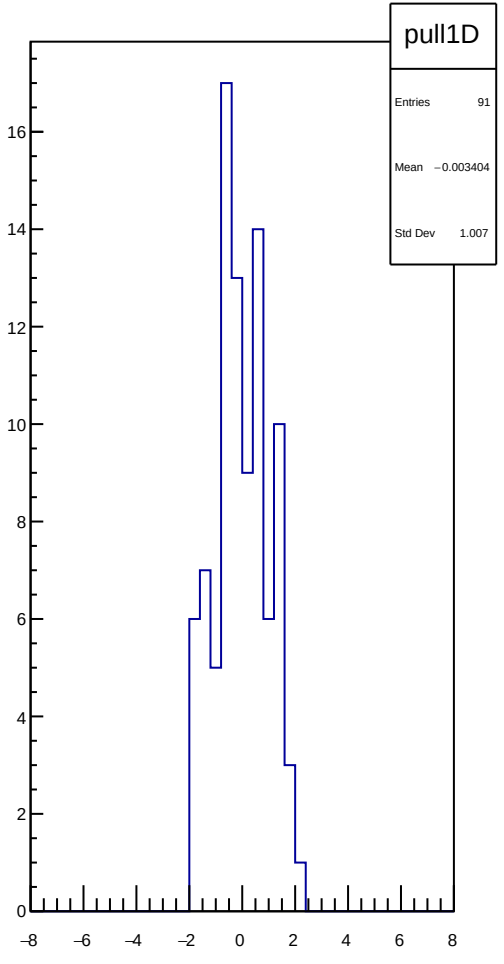

reg_asym_atl2_rms vs run
χ² / ndf 1151 / 90
p0 2592 ± 1.93
2750
2700
2650
2600
2550
2500
2450

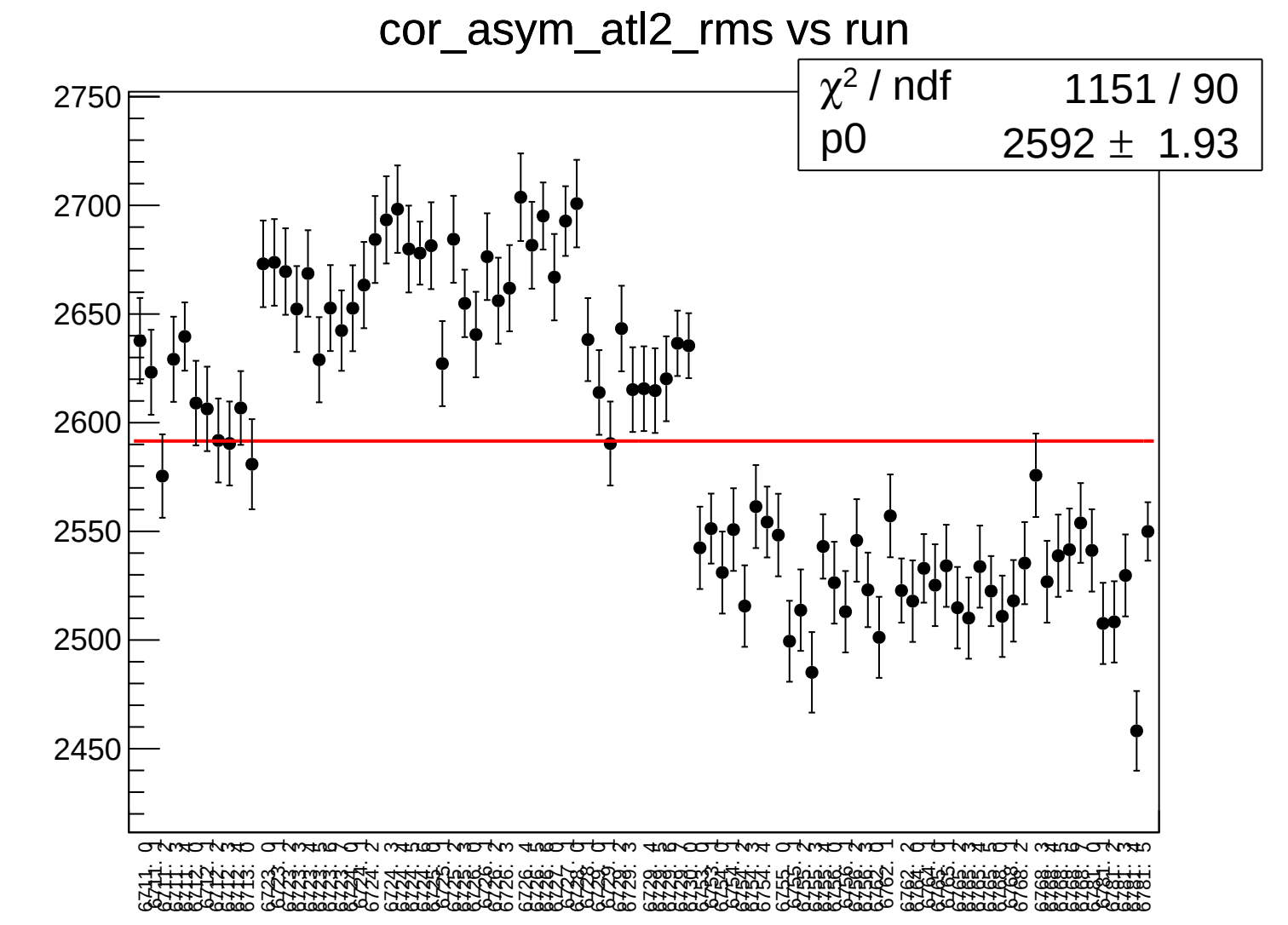

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 82.5 / 90
p0 −849.5 ± 8664
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −74.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

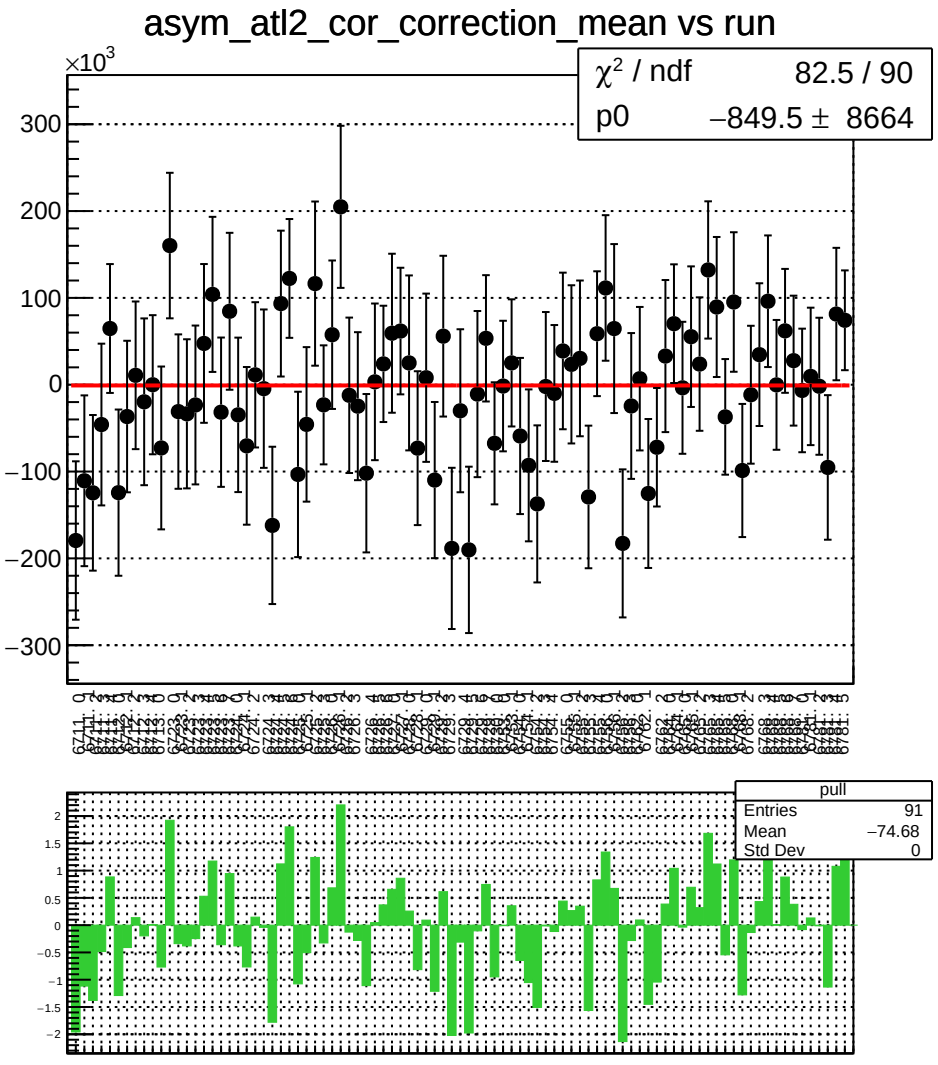

pull1D
Entries 91
Mean −0.03301
Std Dev 0.9516
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

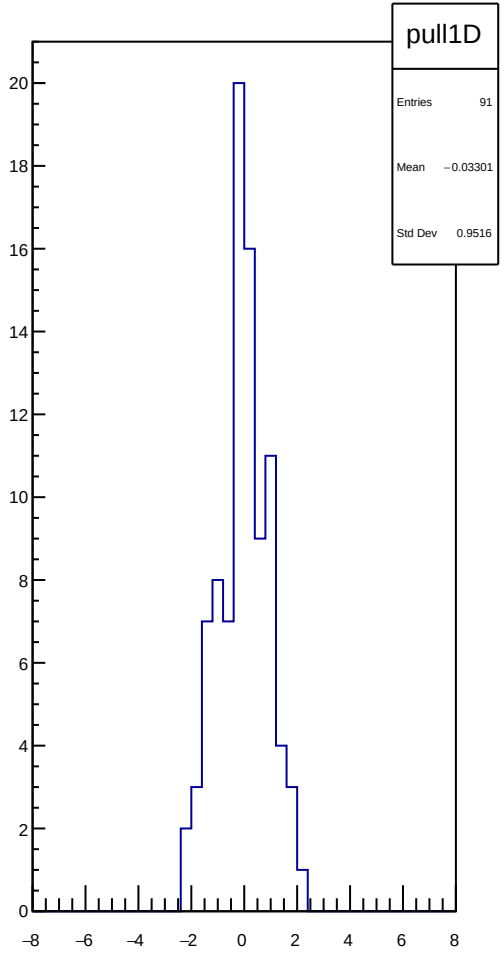

asym_atl2_reg_correction_rms vs run
χ² / ndf 1.069e+04 / 90
p0 8204 ± 6.126
9500
9000
8500
8000
7500
7000
6500

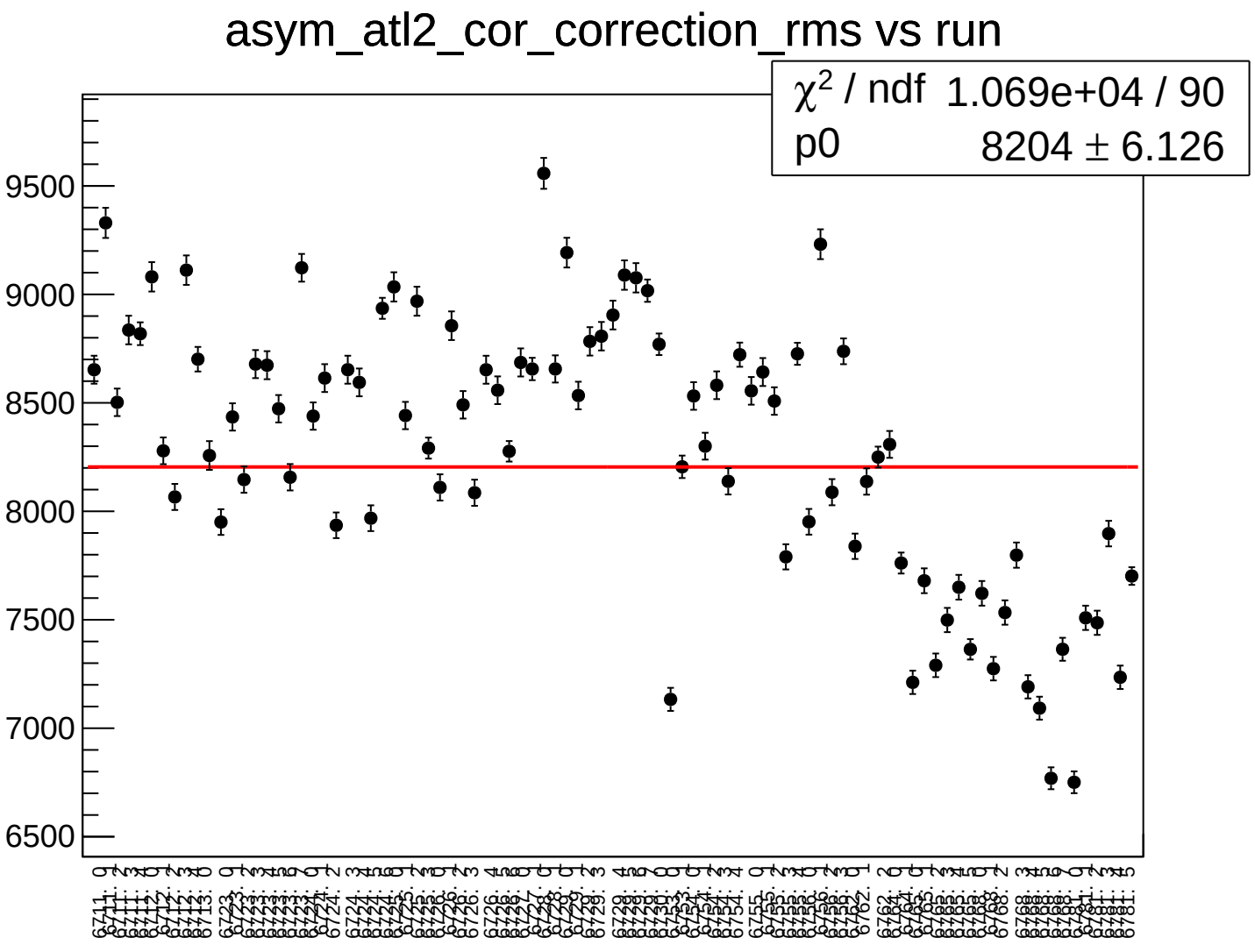

cor_asym_atl2_mean vs run
×10^3
χ² / ndf 92.33 / 90
p0 −1673 ± 2729
pull
Entries 91
Mean −612.6
Std Dev 0

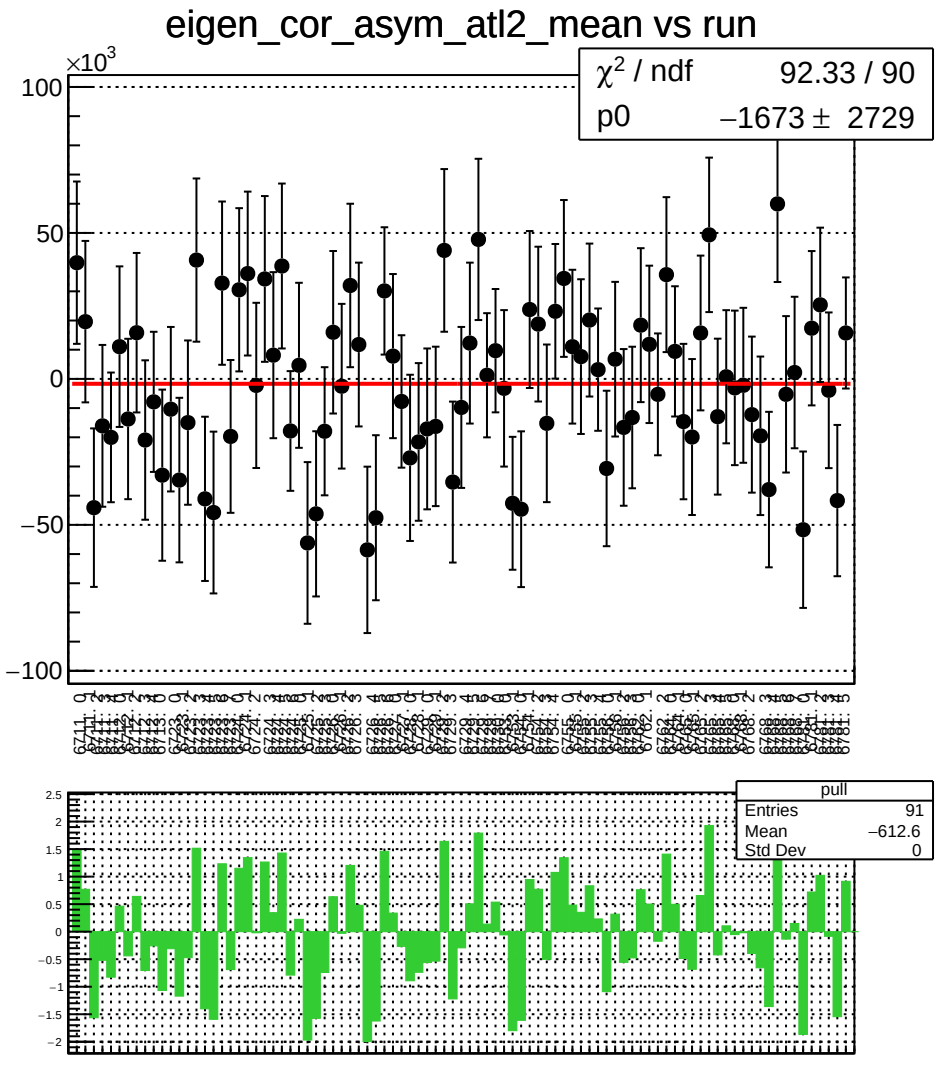

pull1D
Entries 91
Mean −0.003404
Std Dev 1.007

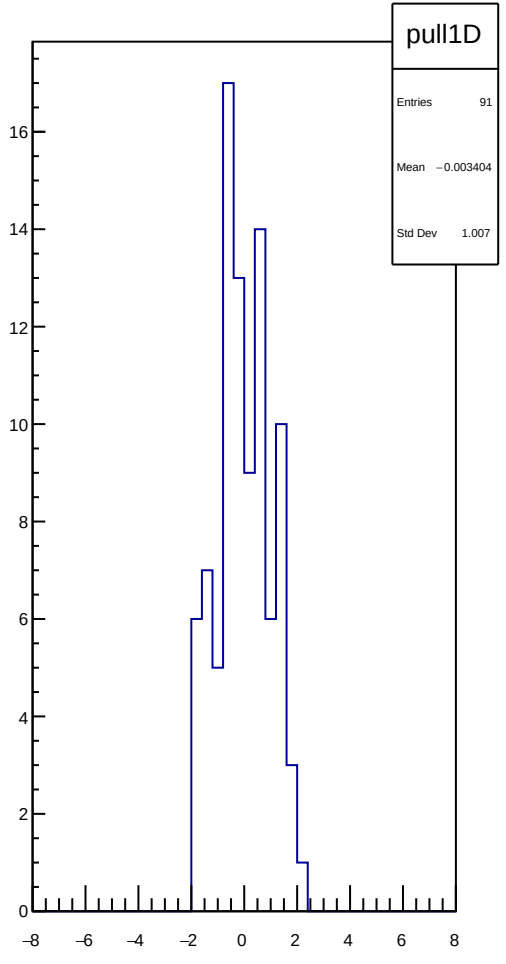

cor_asym_atl2_rms vs run
χ² / ndf 1151 / 90
p0 2592 ± 1.93
2750
2700
2650
2600
2550
2500
2450

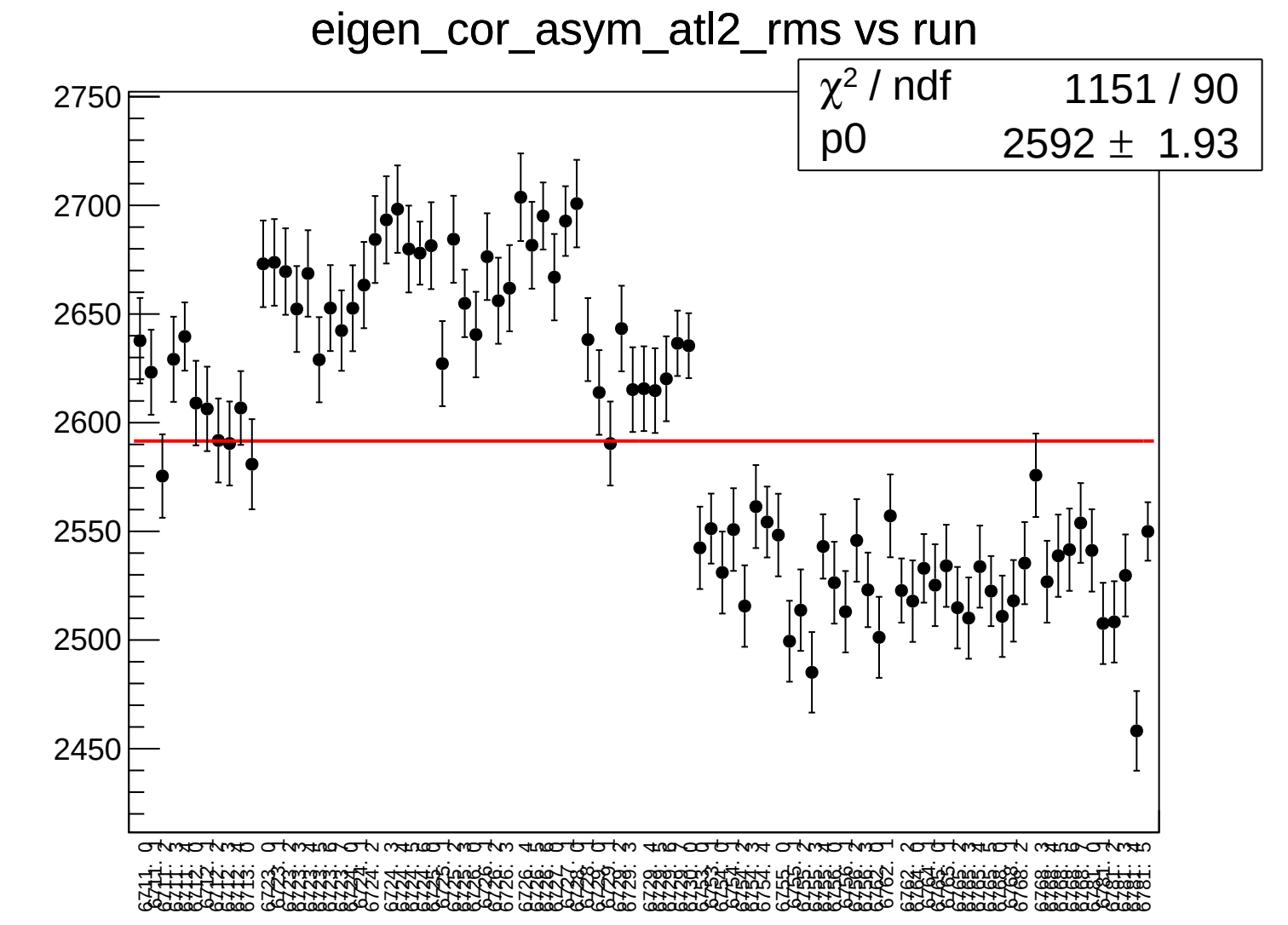

asym_atl2_cor_correction_mean vs run
χ² / ndf 82.5 / 90
p0 −849.5 ± 8664
×10³
pull
Entries 91
Mean −74.68
Std Dev 0

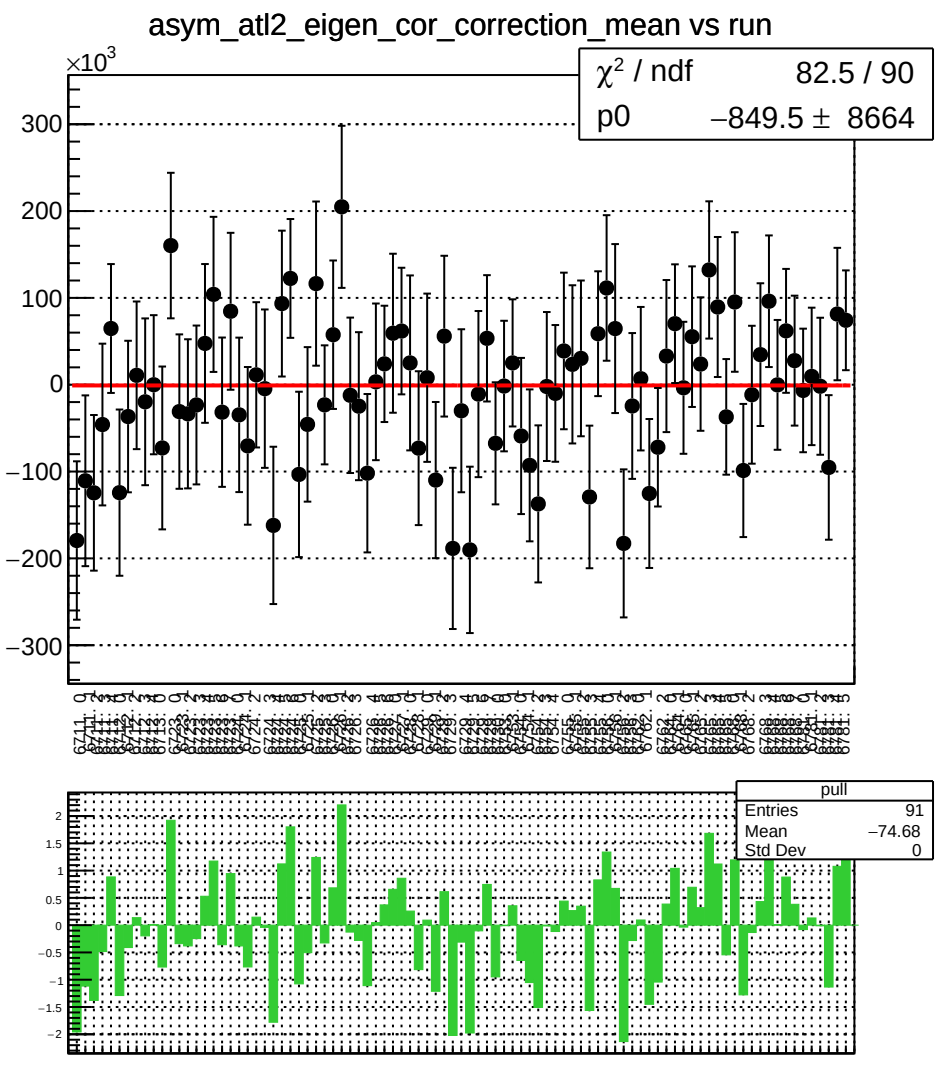

pull1D
Entries 91
Mean −0.03301
Std Dev 0.9516

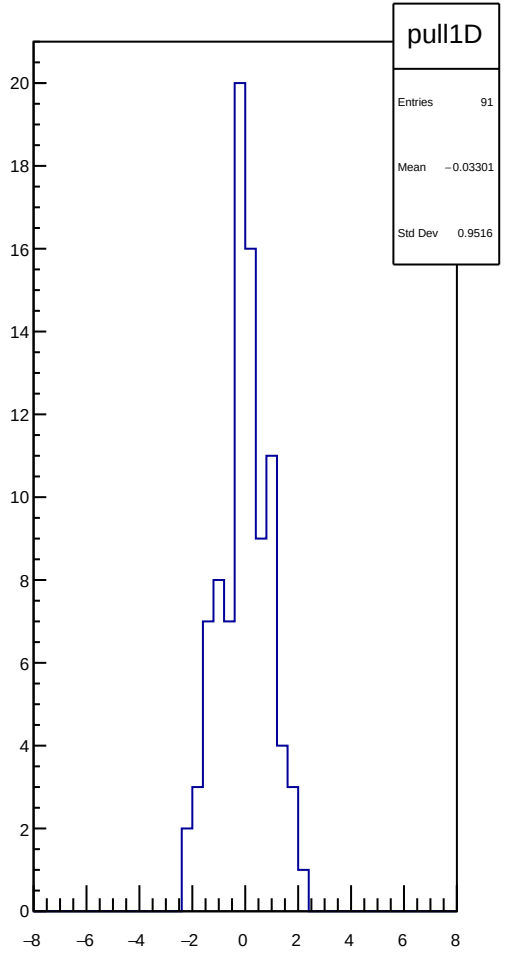

asym_atl2_cor_correction_rms vs run
χ² / ndf 1.069e+04 / 90
p0 8204 ± 6.126
9500
9000
8500
8000
7500
7000
6500

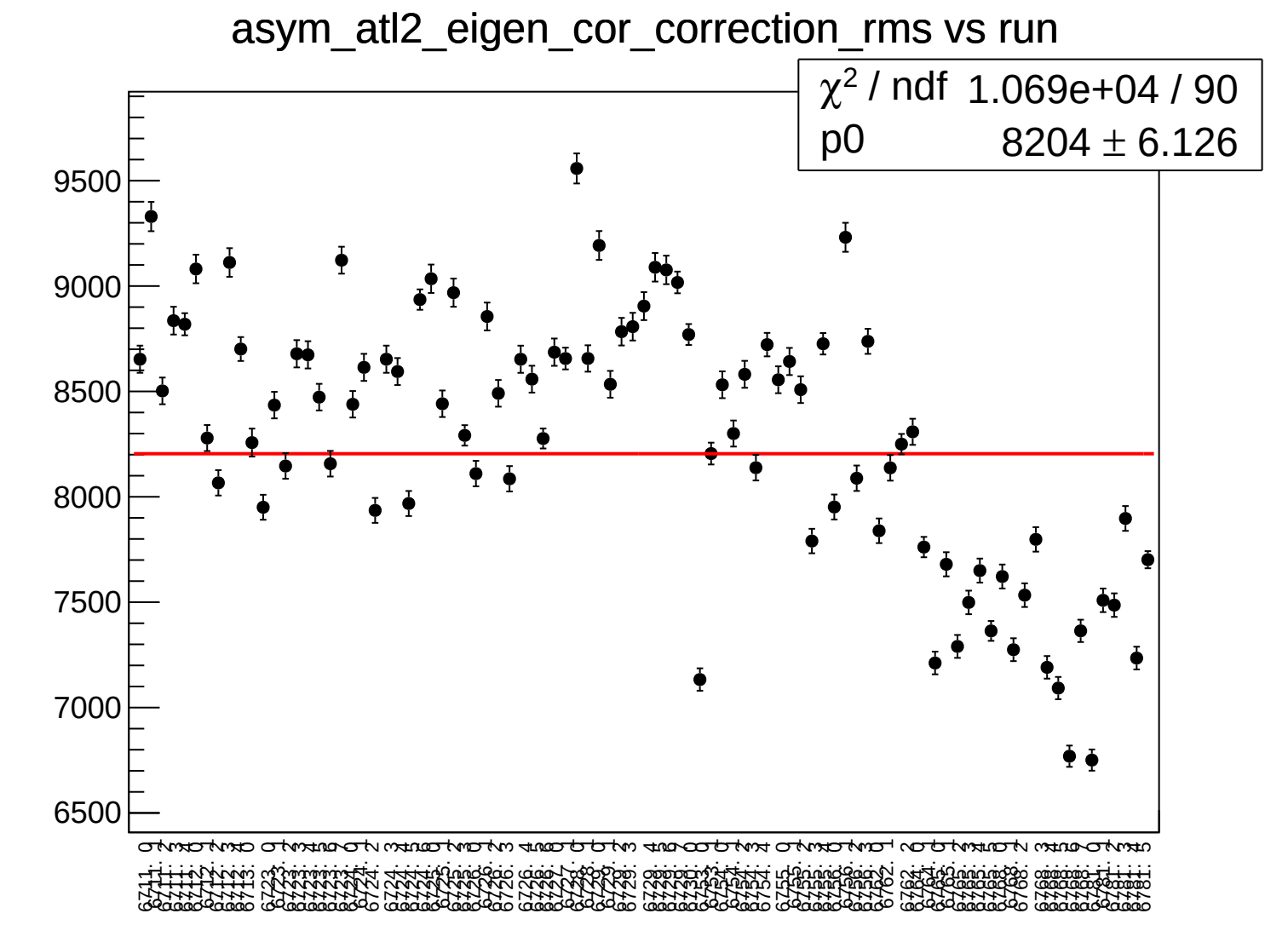

eigen_cor_asym_atl2_mean vs run
×10^3
χ² / ndf 92.33 / 90
p0 −1673 ± 2729
100
50
0
−50
−100
pull
Entries 91
Mean −612.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

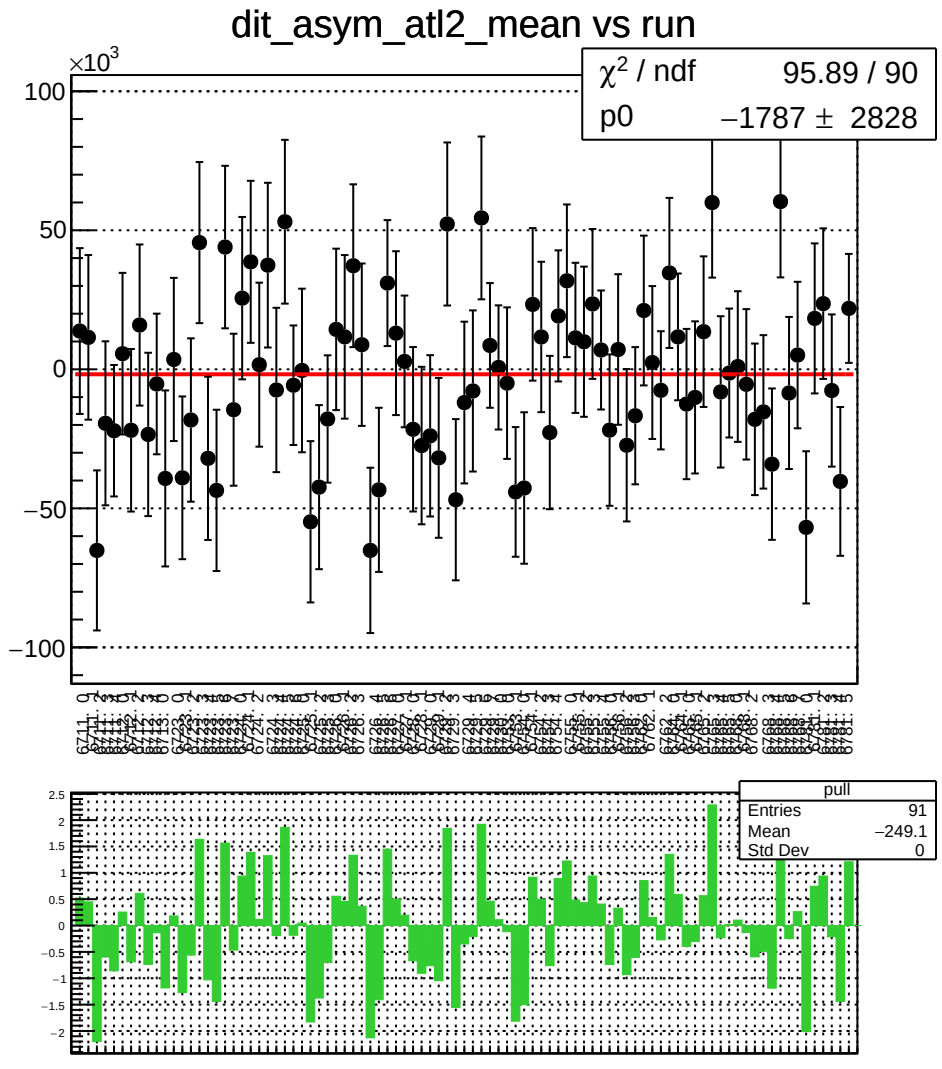

pull1D
Entries 91
Mean −0.003404
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

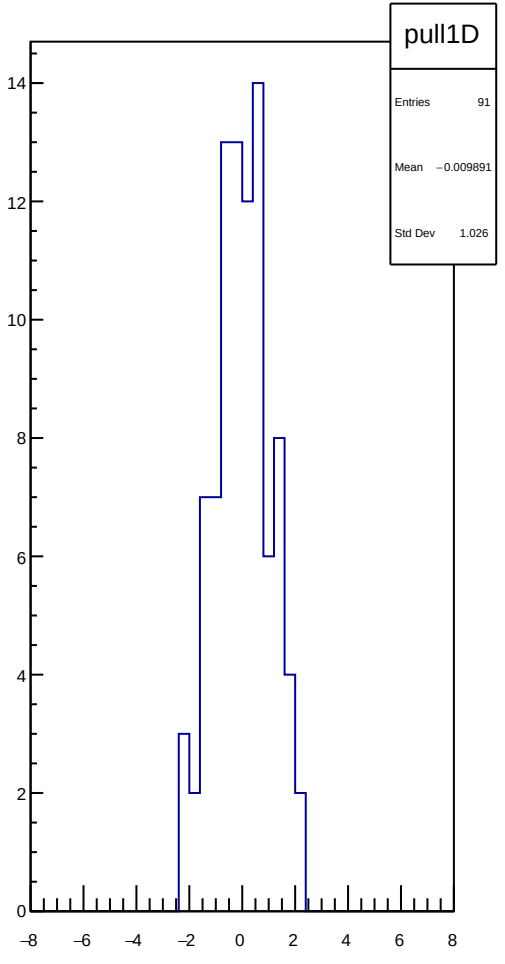

eigen_cor_asym_atl2_rms vs run
χ² / ndf 1151 / 90
p0 2592 ± 1.93
2750
2700
2650
2600
2550
2500
2450

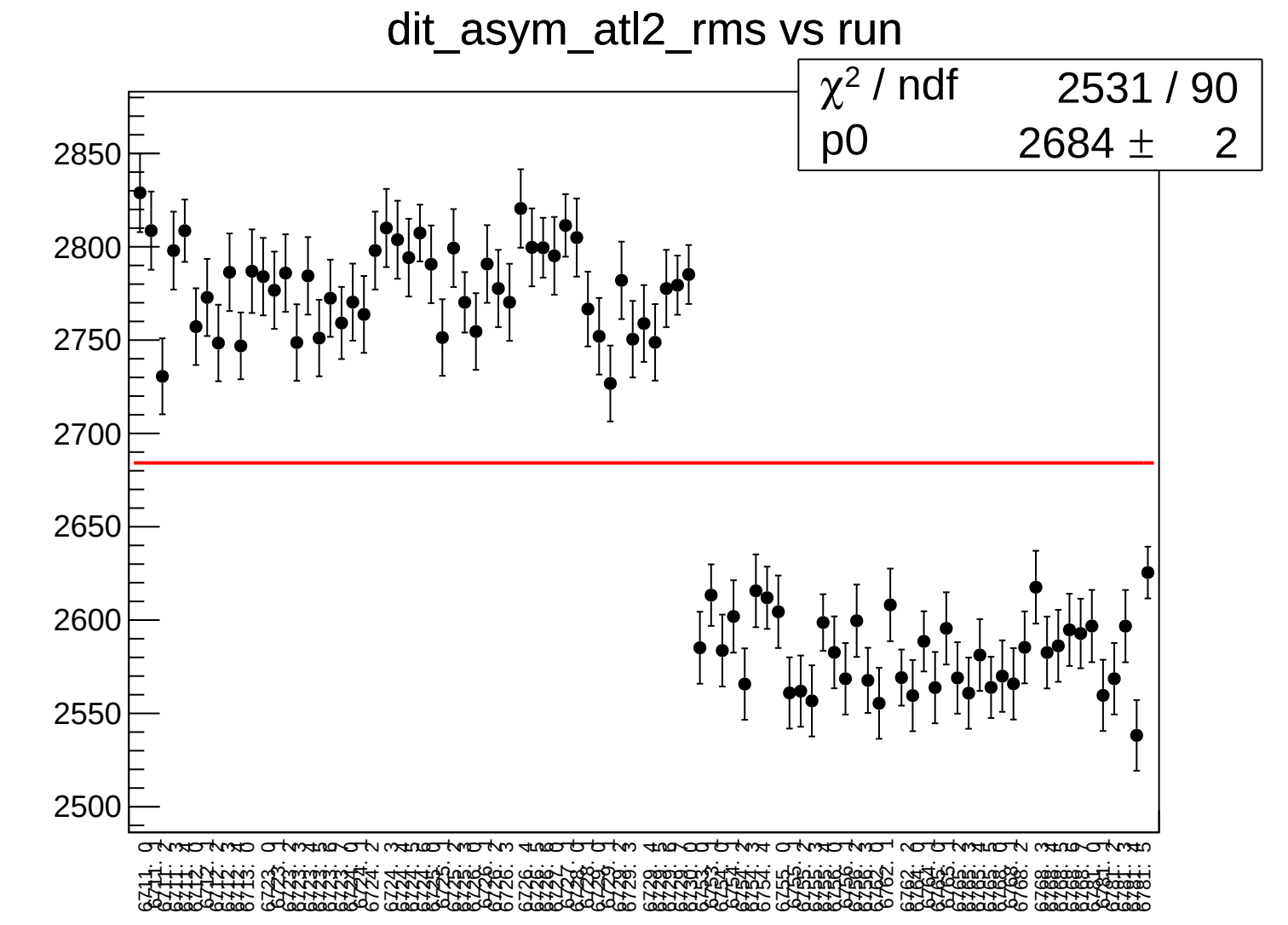

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.5 / 90
p0 −849.5 ± 8664
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −74.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

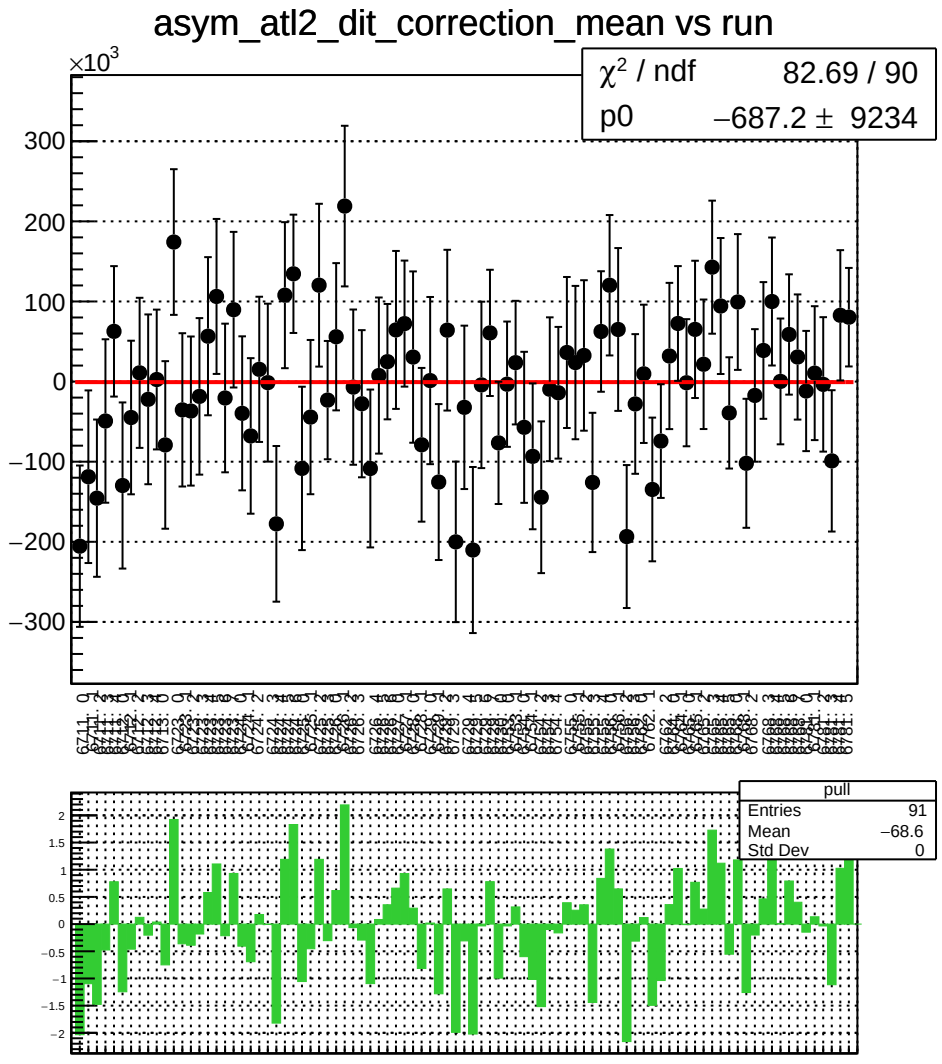

pull1D
Entries 91
Mean −0.03301
Std Dev 0.9516
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

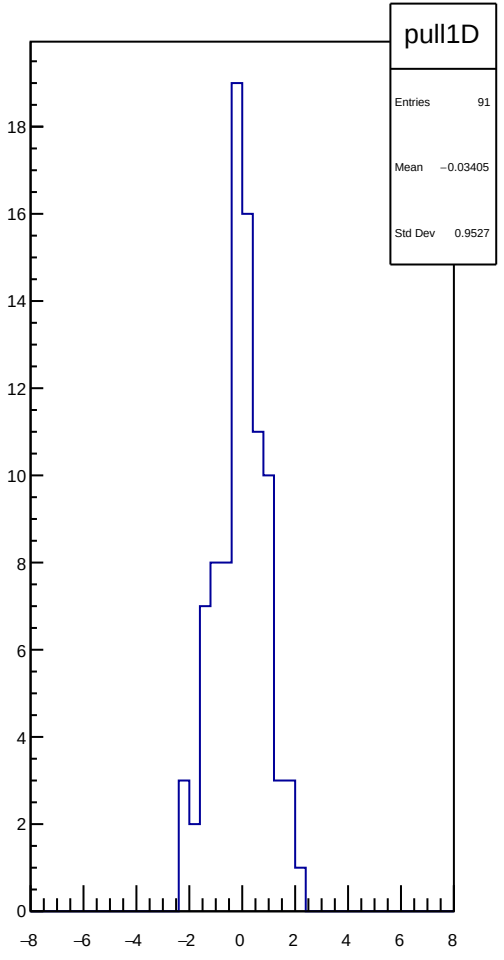

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 1.069e+04 / 90
p0 8204 ± 6.126
9500
9000
8500
8000
7500
7000
6500

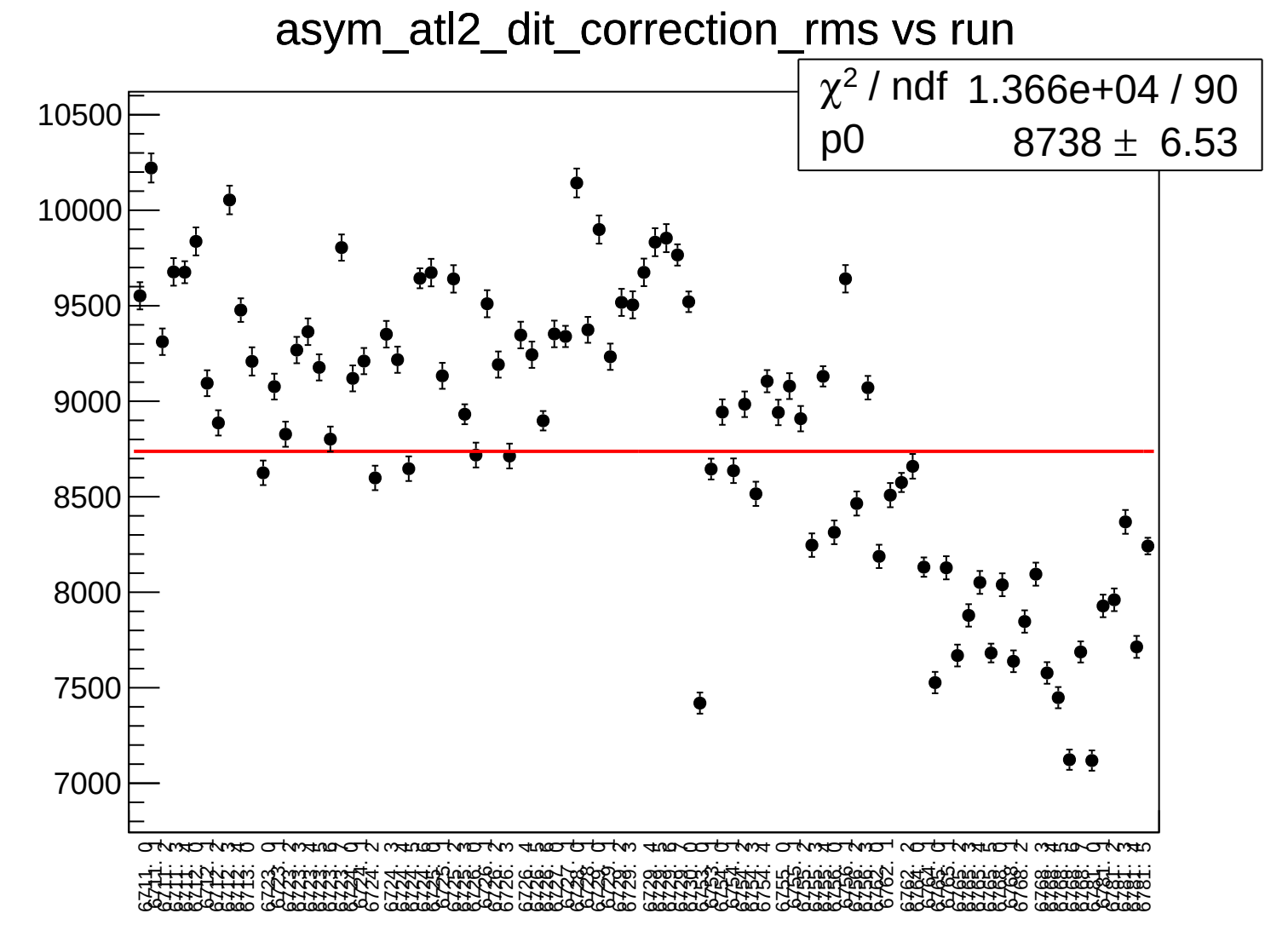

dit_asym_atl2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 95.89 / 90
p0 −1787 ± 2828
pull
Entries 91
Mean −249.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

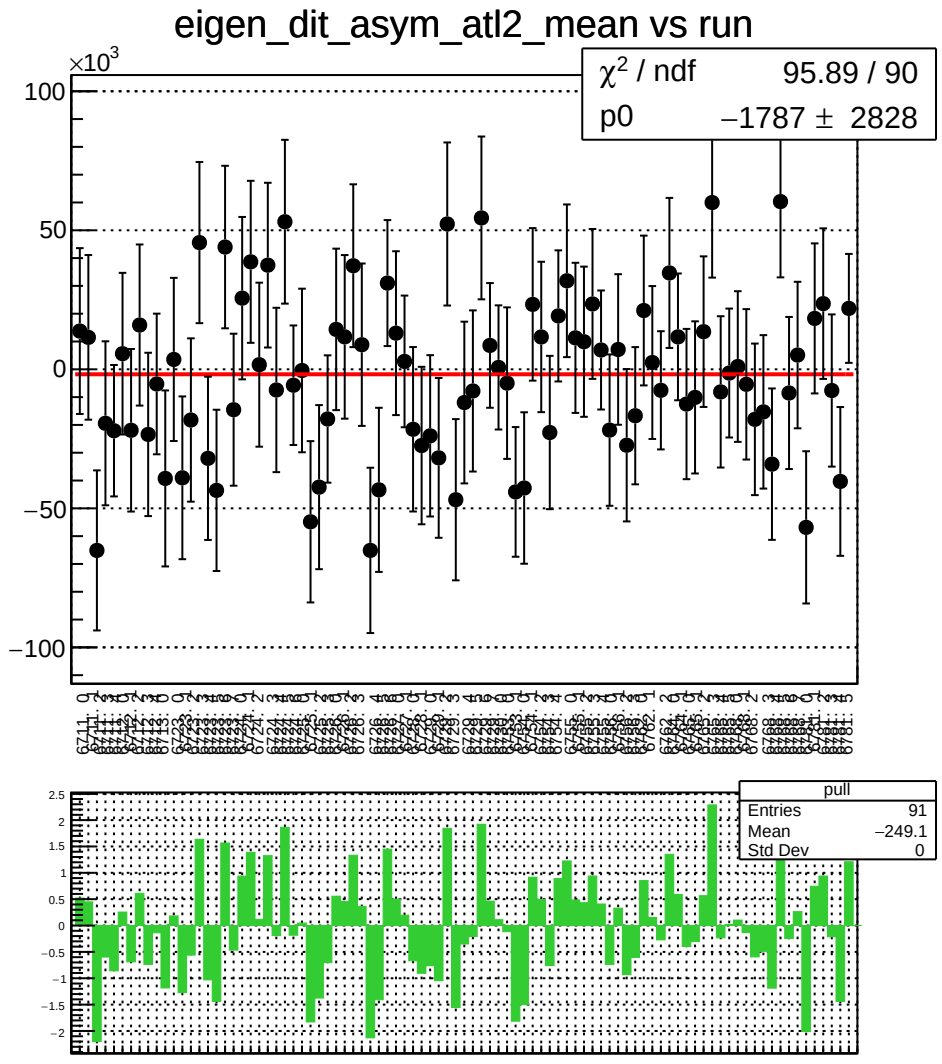

pull1D
Entries 91
Mean −0.009891
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

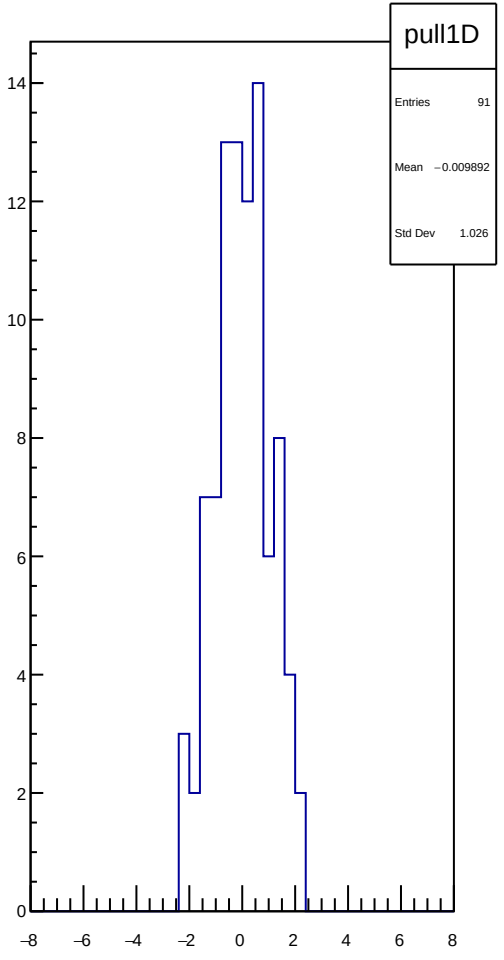

dit_asym_atl2_rms vs run
χ² / ndf 2531 / 90
p0 2684 ± 2
2850
2800
2750
2700
2650
2600
2550
2500

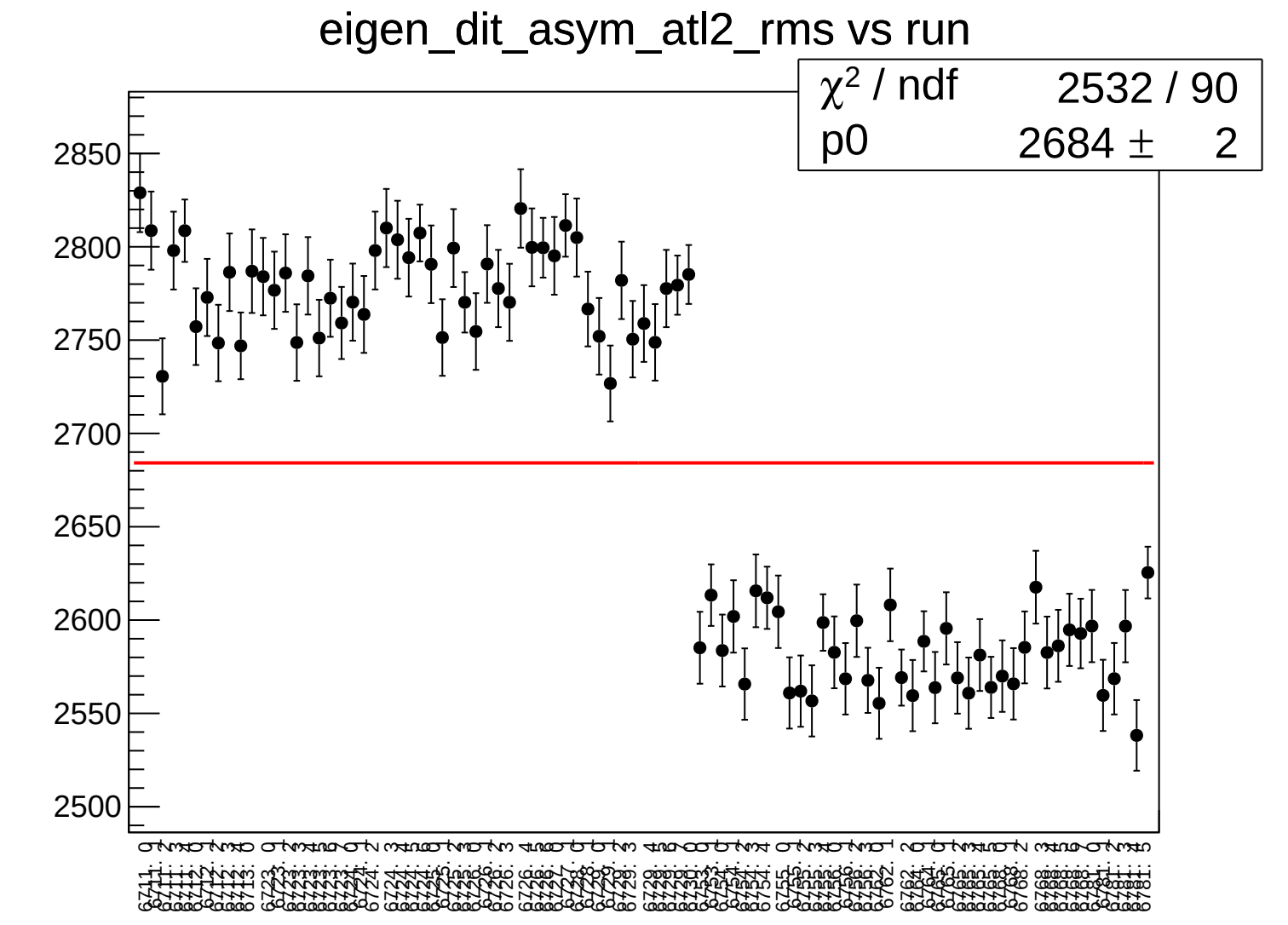

asym_atl2_dit_correction_mean vs run
χ² / ndf 82.69 / 90
p0 −687.2 ± 9234
×10³
pull
Entries 91
Mean −68.6
Std Dev 0

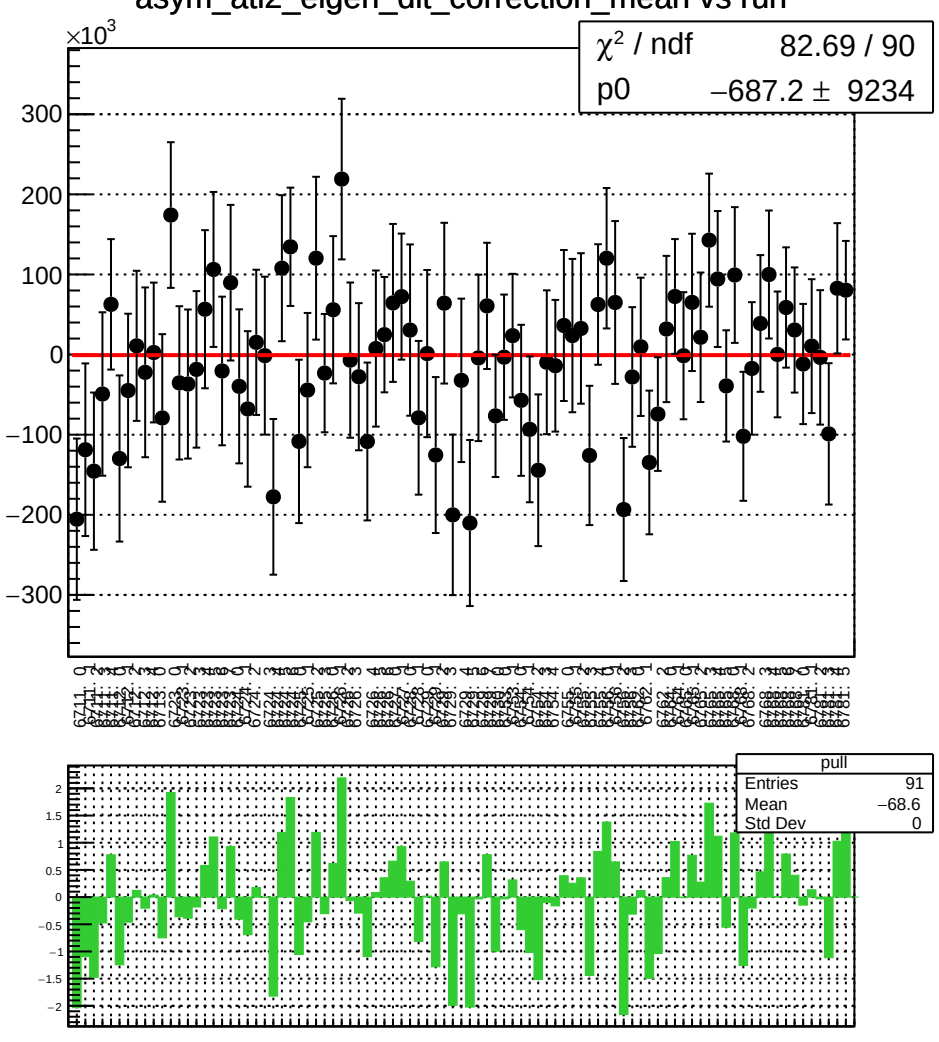

pull1D
Entries 91
Mean −0.03405
Std Dev 0.9527

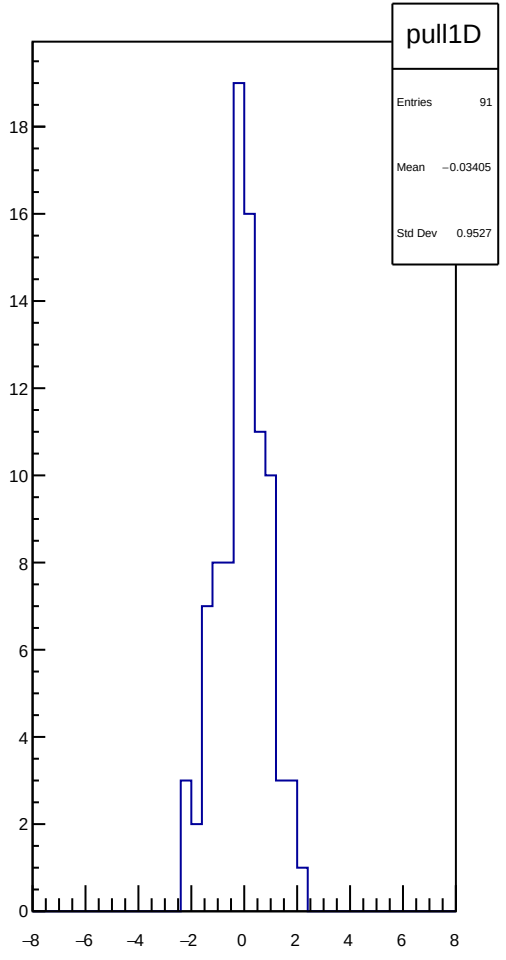

asym_atl2_dit_correction_rms vs run
χ^2 / ndf 1.366e+04 / 90
p0 8738 ± 6.53
10500
10000
9500
9000
8500
8000
7500
7000

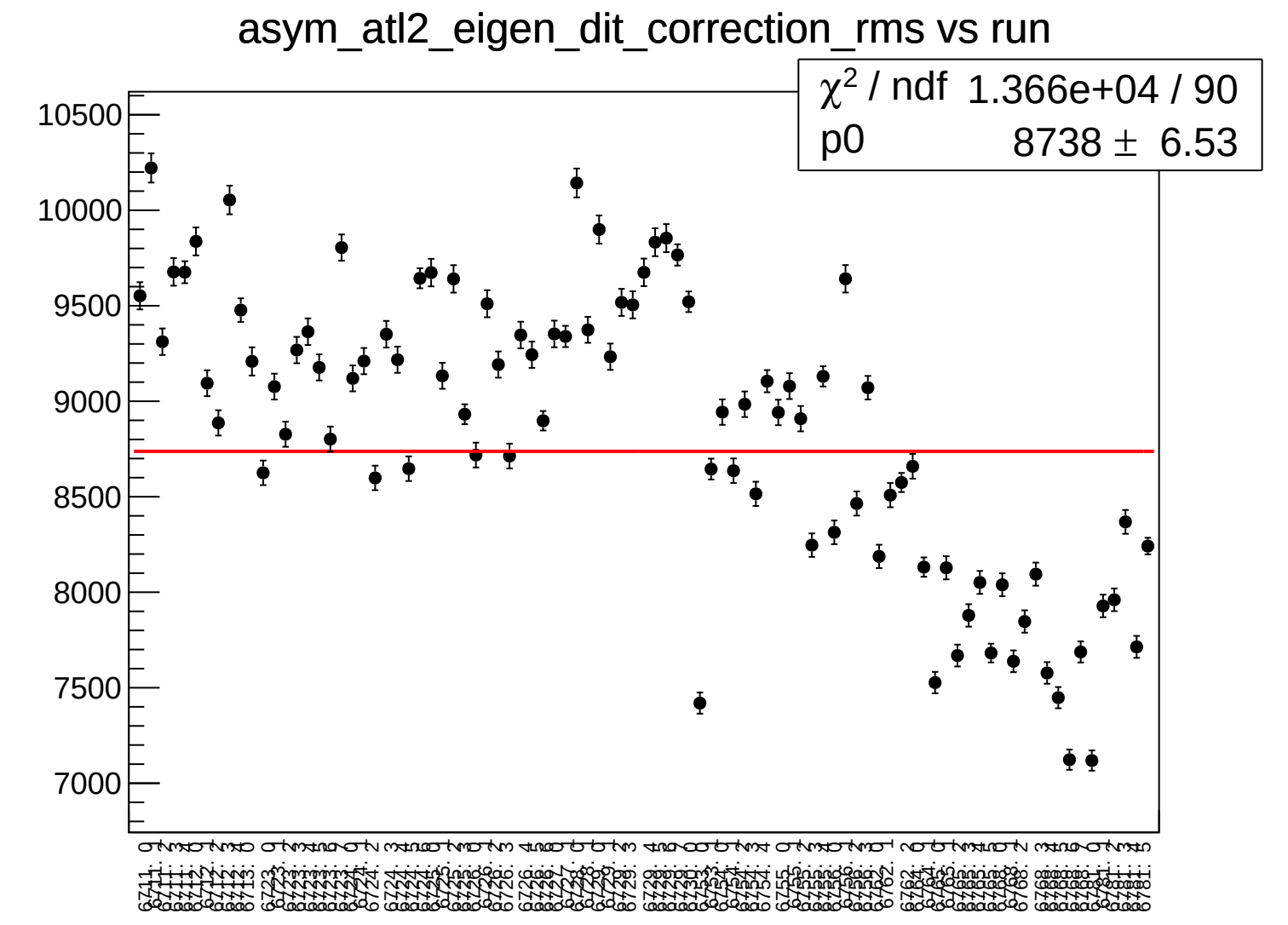

eigen_dit_asym_atl2_mean vs run
×10^3
χ² / ndf 95.89 / 90
p0 −1787 ± 2828
100
50
0
−50
−100
pull
Entries 91
Mean −249.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

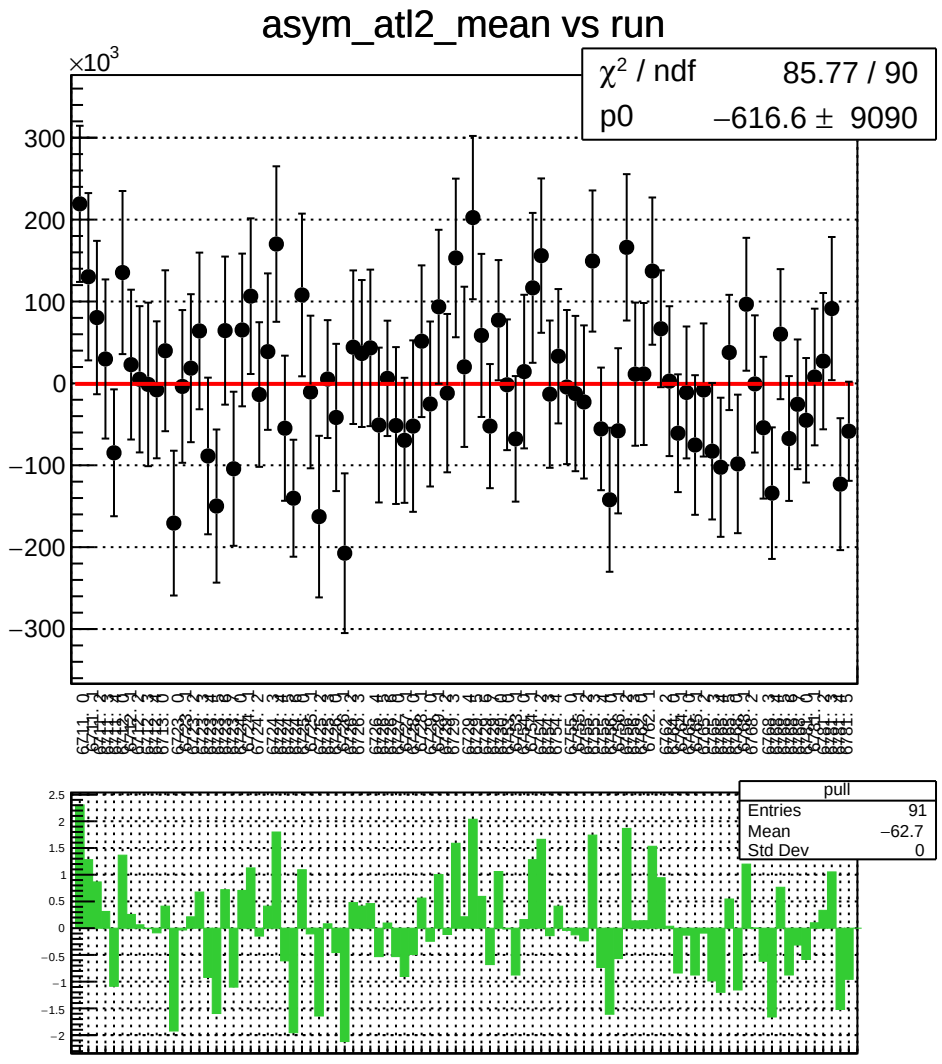

pull1D
Entries 91
Mean −0.009892
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

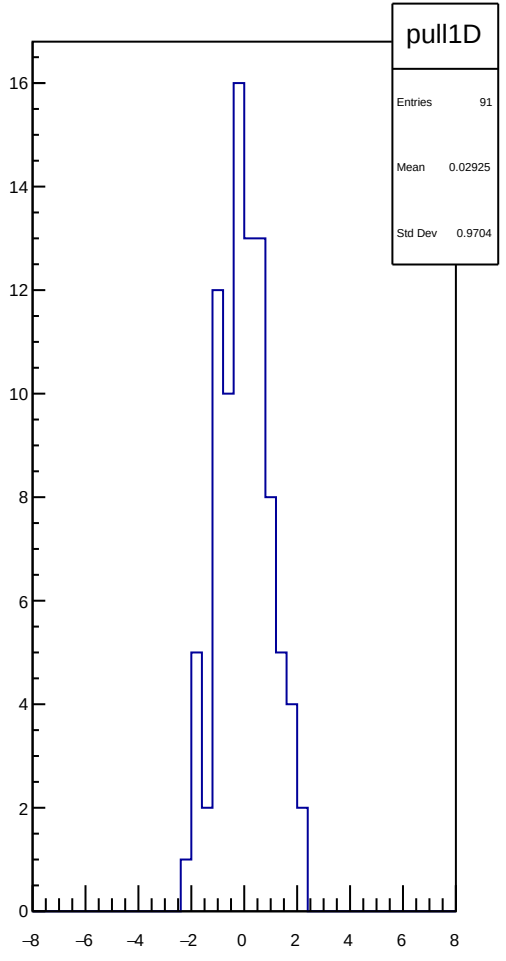

eigen_dit_asym_atl2_rms vs run
χ² / ndf 2532 / 90
p0 2684 ± 2
2850
2800
2750
2700
2650
2600
2550
2500

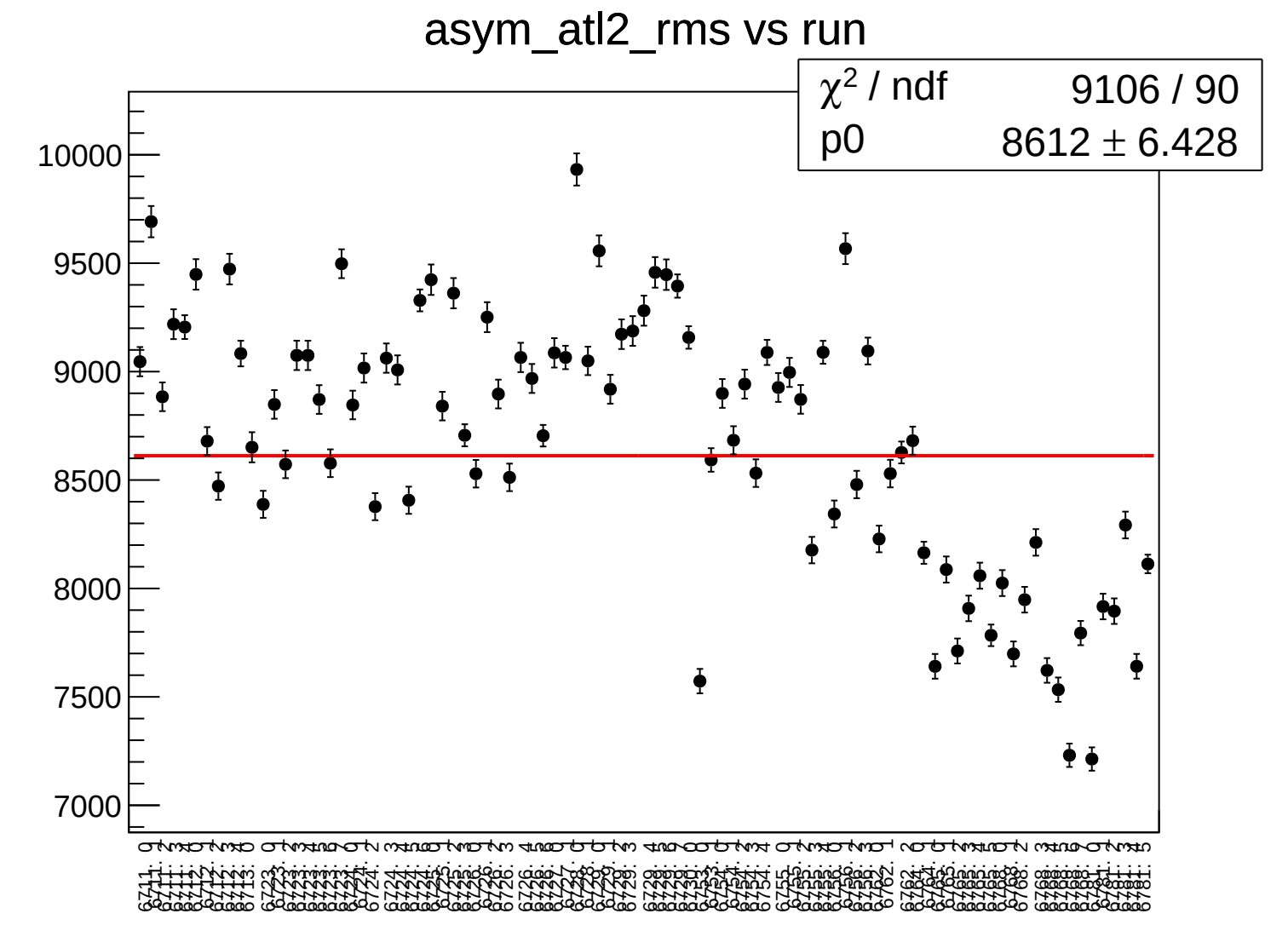

asym_atl2_eigen_dit_correction_mean vs run
χ² / ndf 82.69 / 90
p0 −687.2 ± 9234
×10³
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −68.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

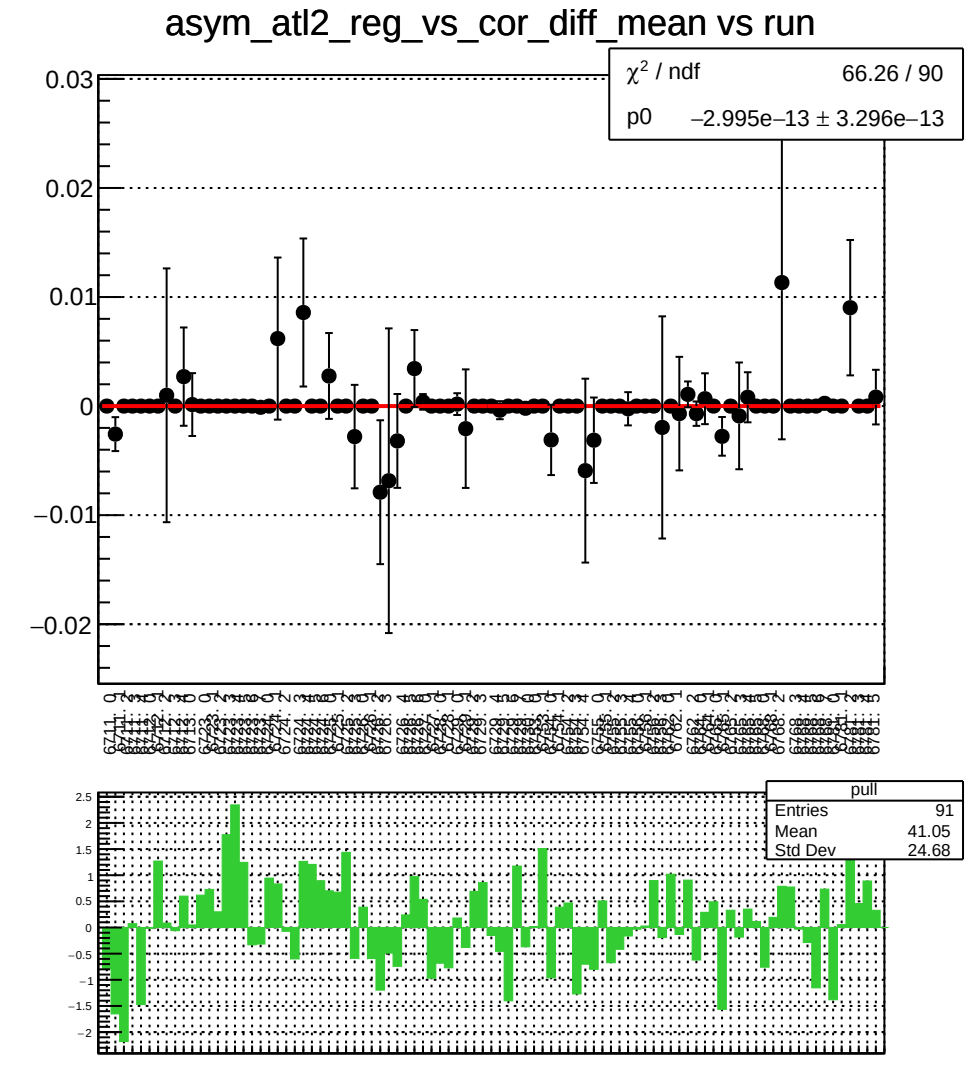

pull1D
Entries 91
Mean −0.03405
Std Dev 0.9527
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

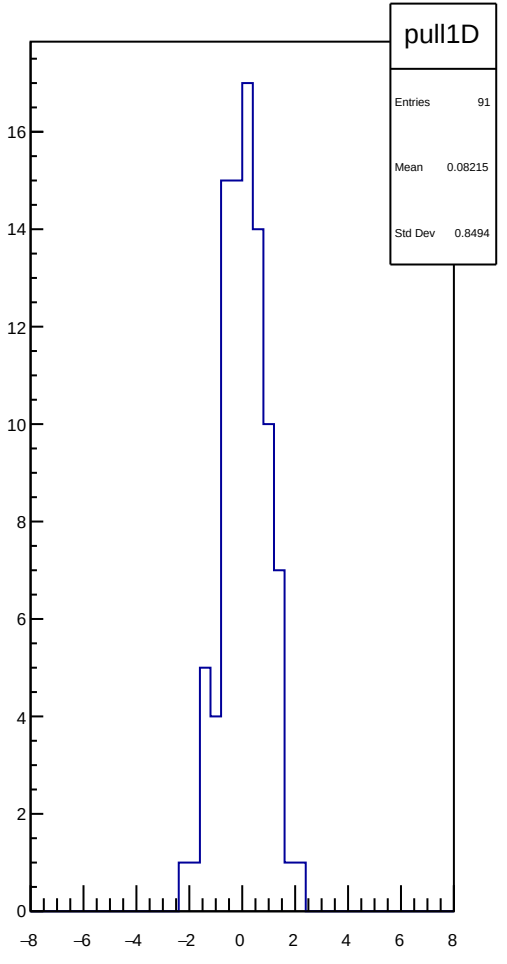

asym_atl2_eigen_dit_correction_rms vs run
χ^2 / ndf 1.366e+04 / 90
p0 8738 ± 6.53
10500
10000
9500
9000
8500
8000
7500
7000

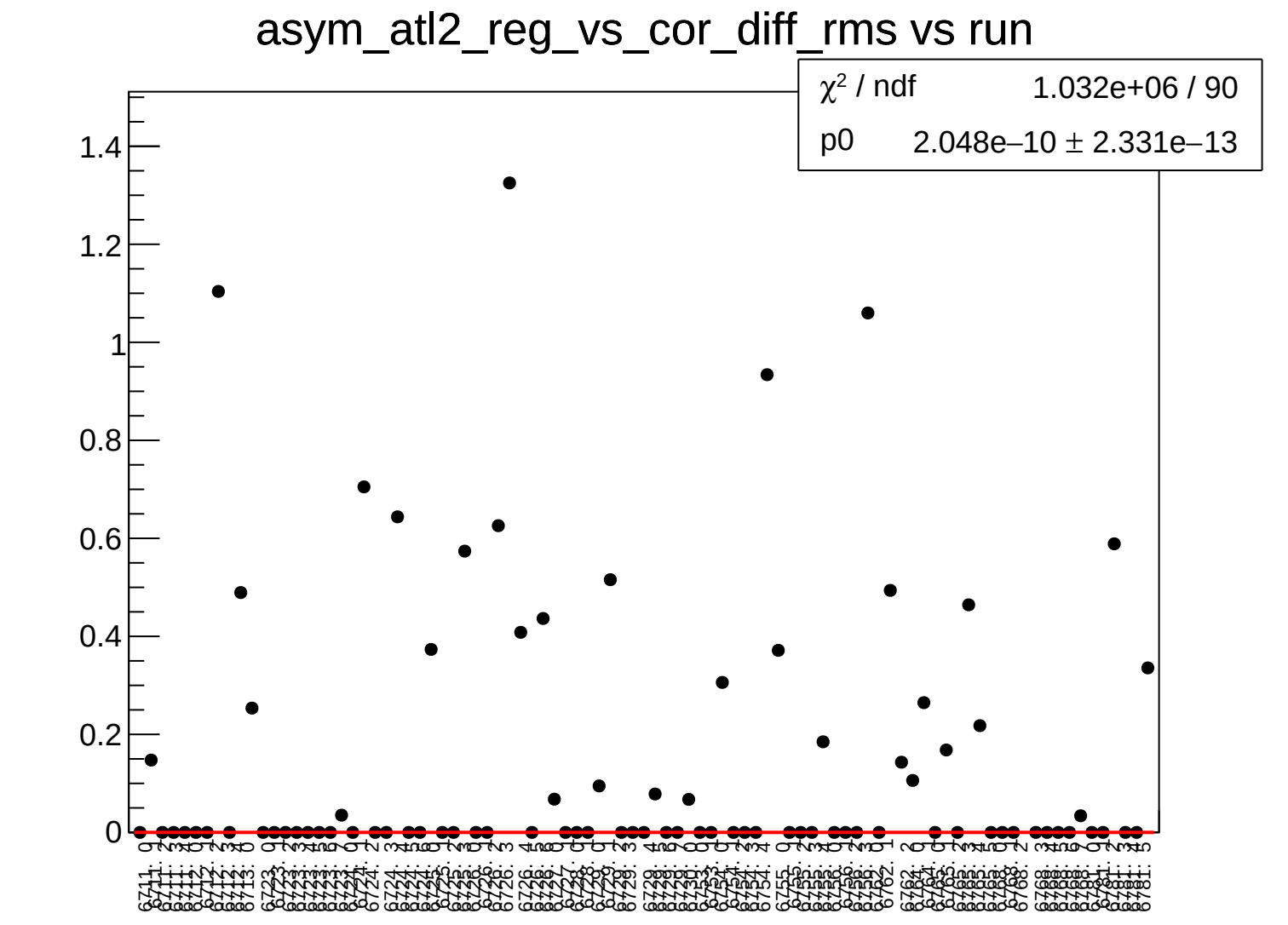

asym_atl2_mean vs run
×10^3
χ² / ndf 85.77 / 90
p0 −616.6 ± 9090
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −62.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

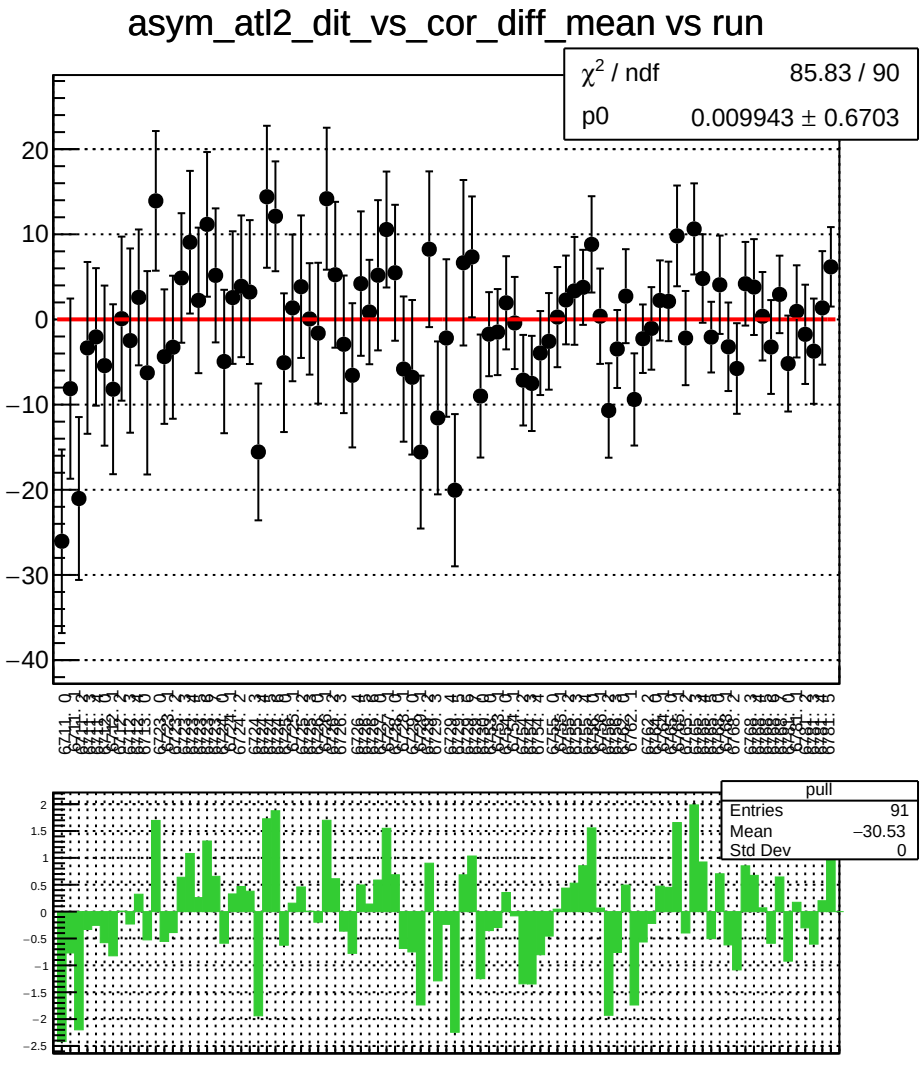

pull1D
Entries 91
Mean 0.02925
Std Dev 0.9704
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

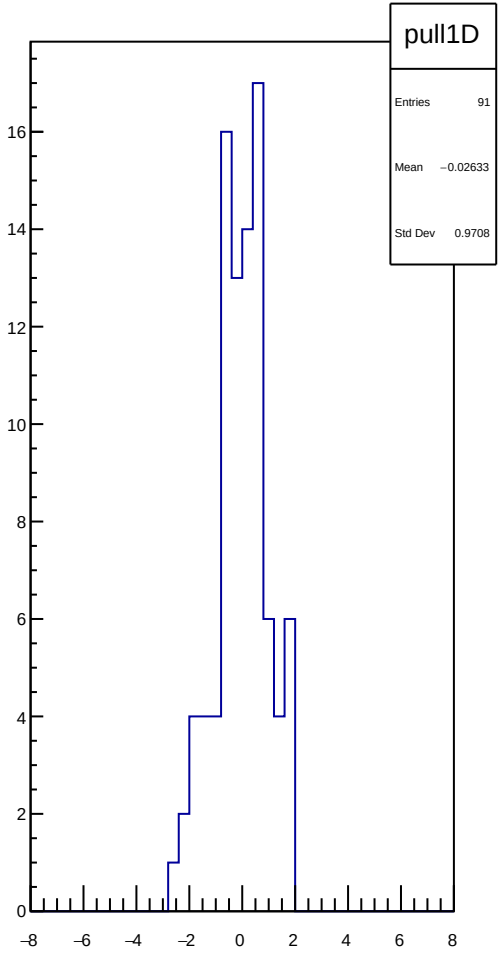

asym_atl2_rms vs run
χ^2 / ndf 9106 / 90
p0 8612 ± 6.428
10000
9500
9000
8500
8000
7500
7000

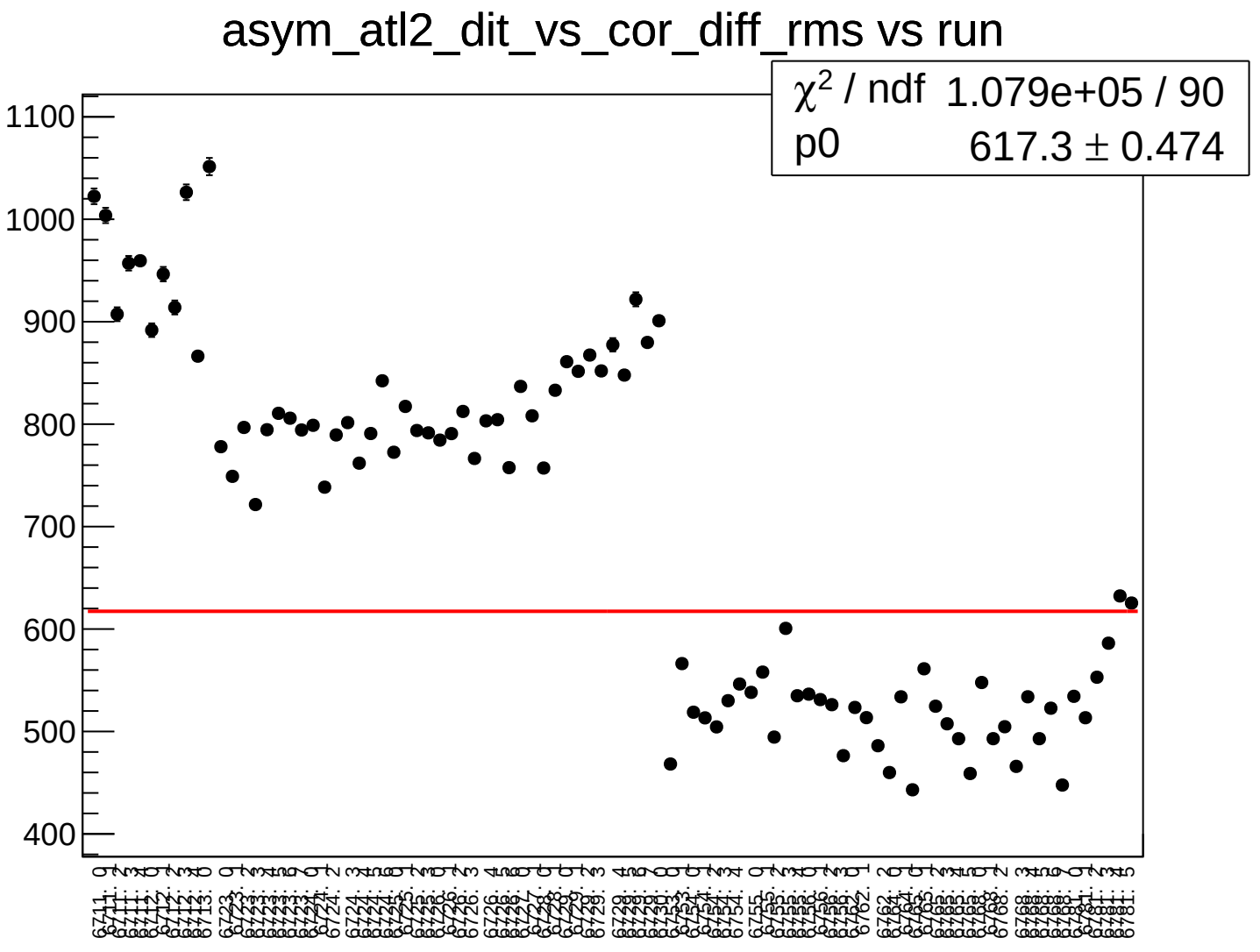

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 66.26 / 90
p0 −2.995e−13 ± 3.296e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 91
Mean 41.05
Std Dev 24.68
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

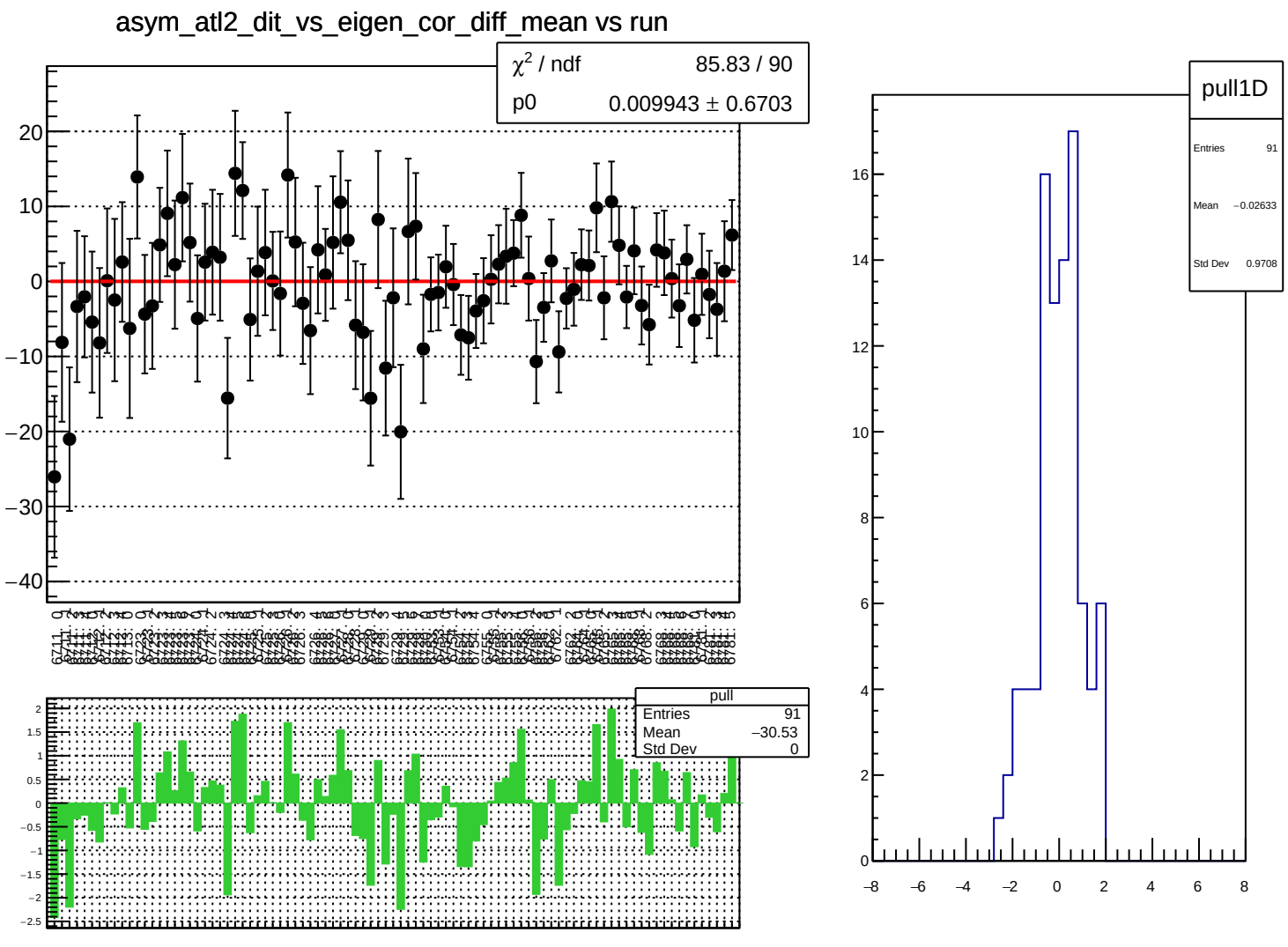

pull1D
Entries 91
Mean 0.08215
Std Dev 0.8494
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

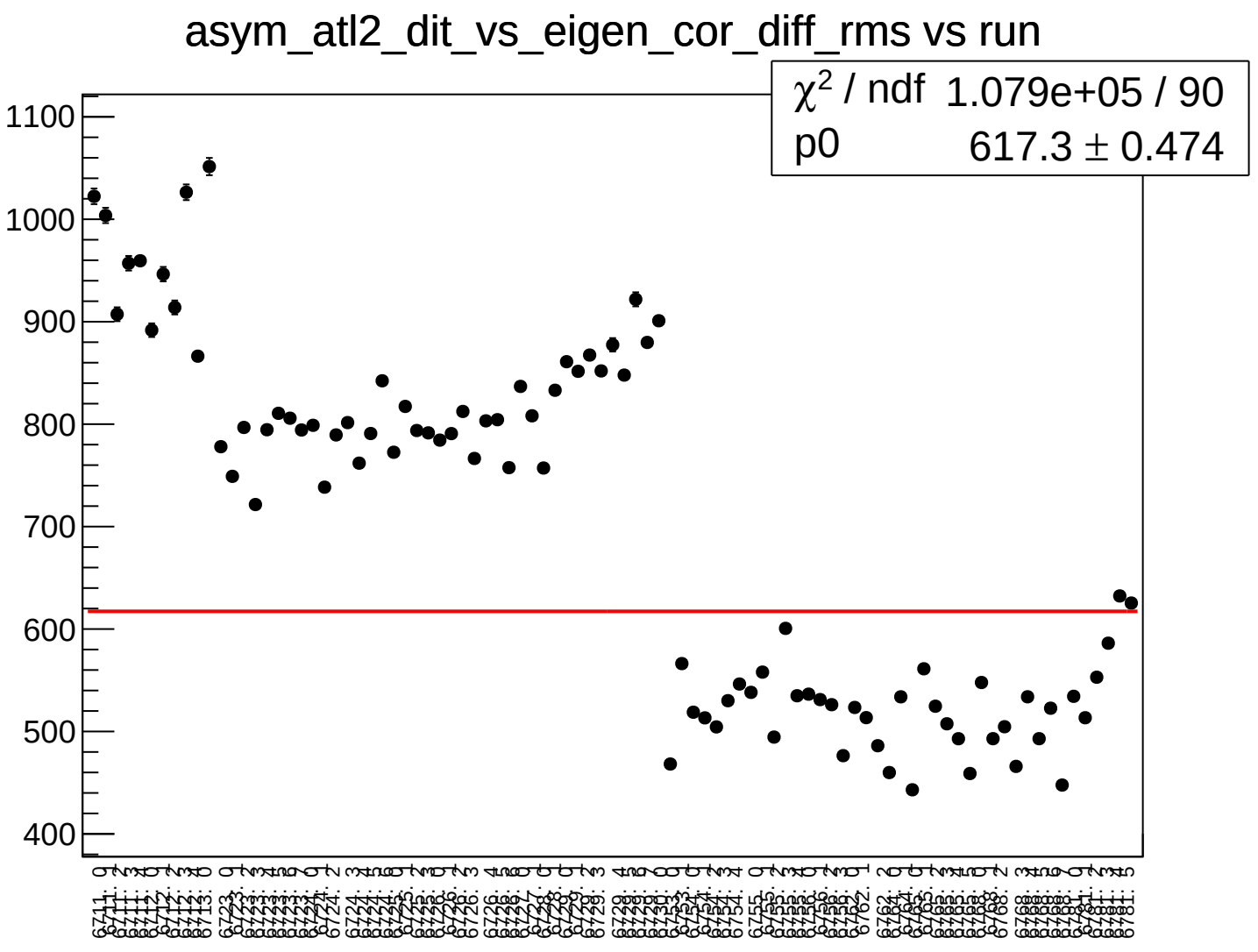

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.032e+06 / 90
p0 2.048e−10 ± 2.331e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

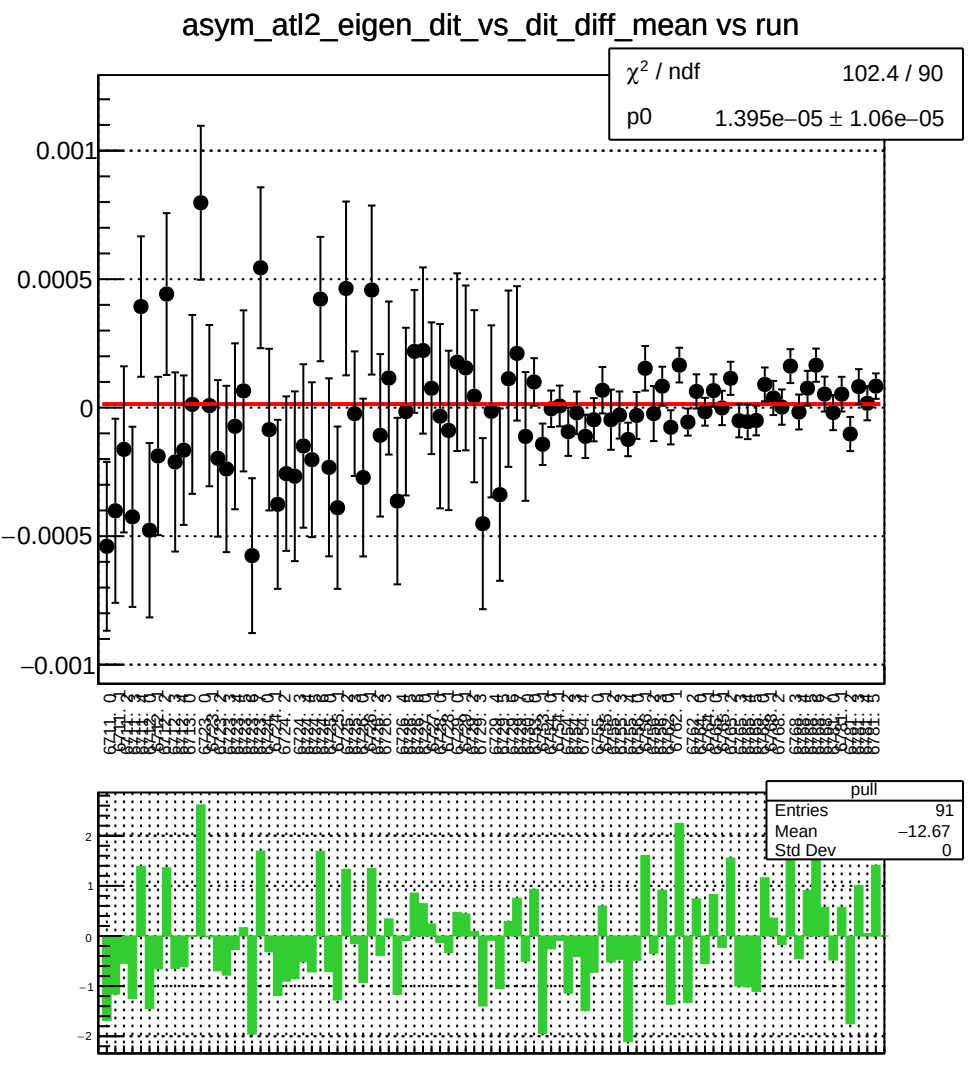

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 85.83 / 90
p0 0.009943 ± 0.6703
pull
Entries 91
Mean −30.53
Std Dev 0

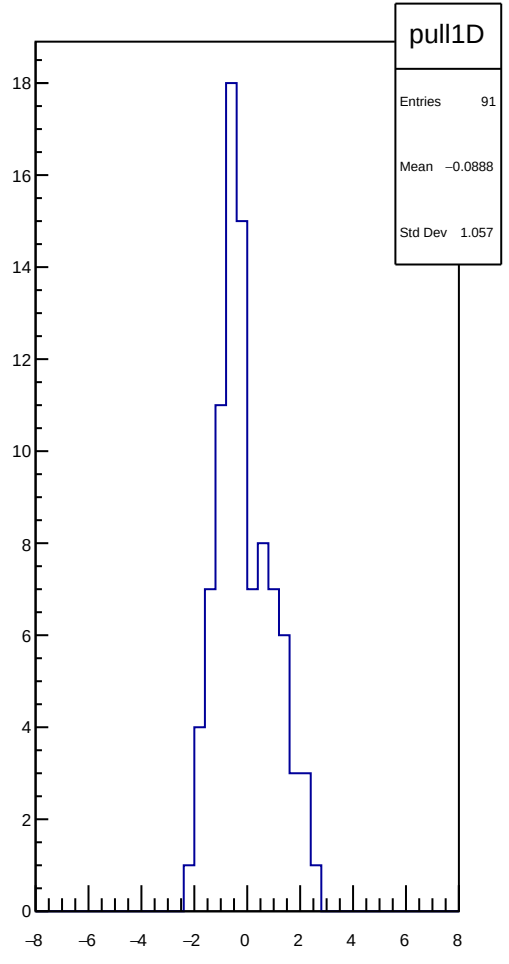

pull1D
Entries 91
Mean −0.02633
Std Dev 0.9708

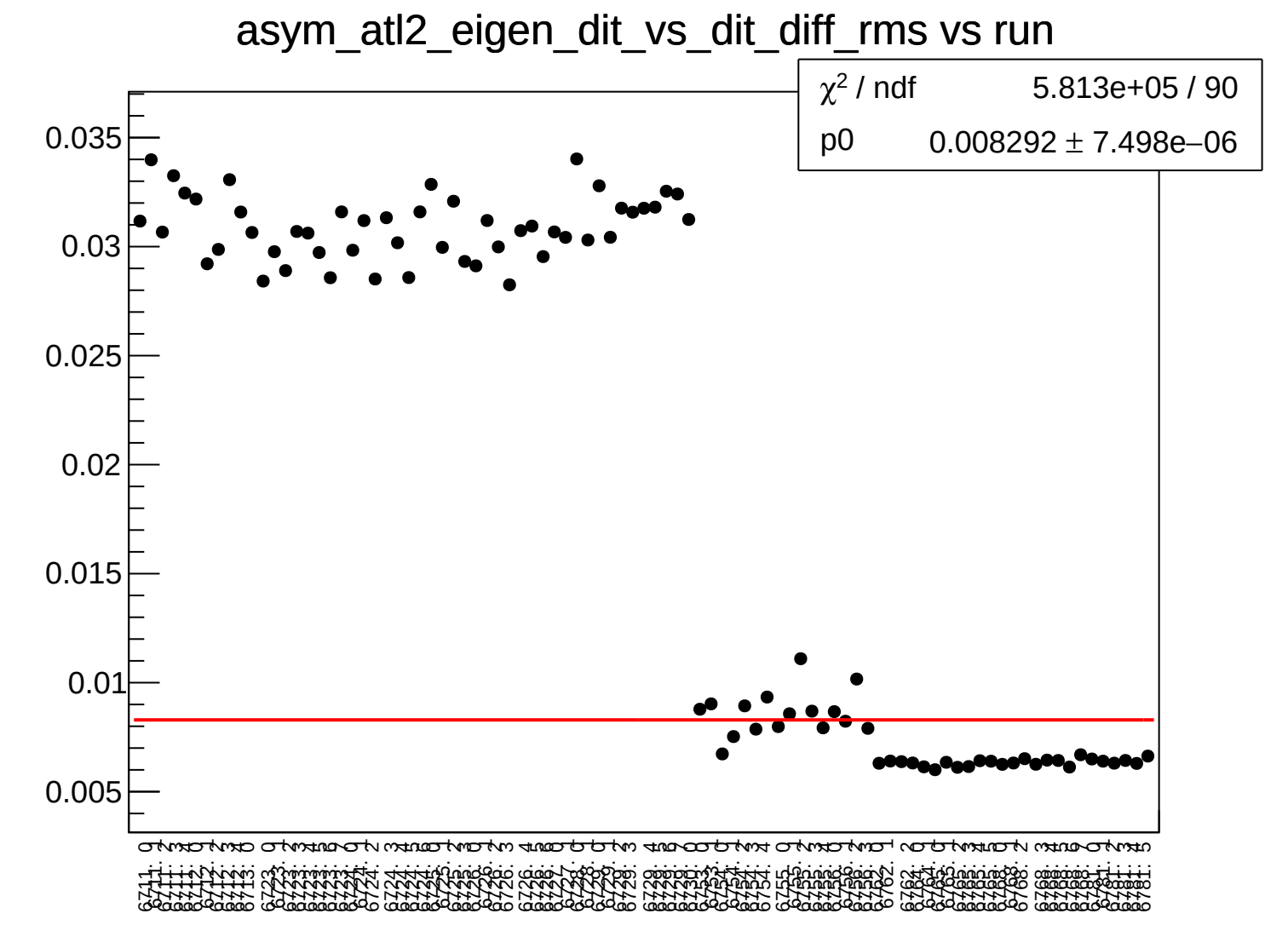

asym_atl2_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.079e+05 / 90
p0 617.3 ± 0.474
1100
1000
900
800
700
600
500
400

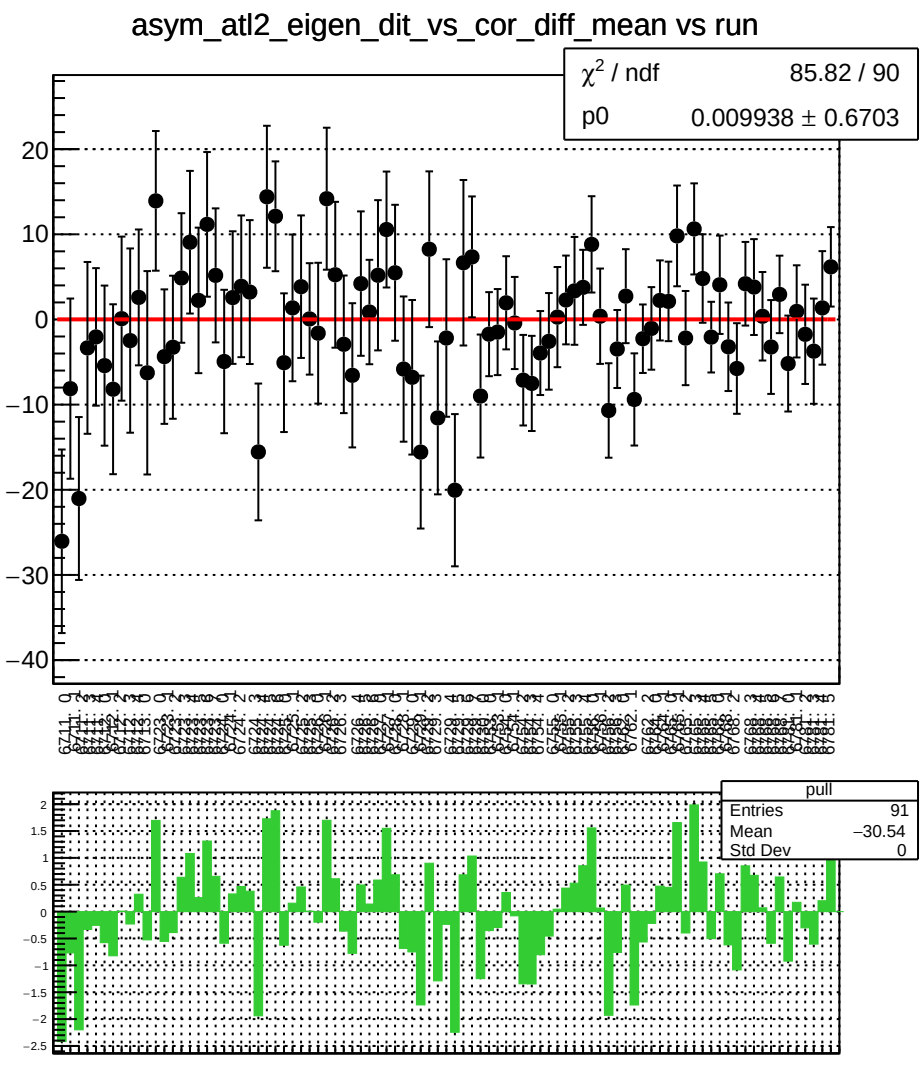

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.83 / 90
p0 0.009943 ± 0.6703
pull
Entries 91
Mean −30.53
Std Dev 0
pull1D
Entries 91
Mean −0.02633
Std Dev 0.9708

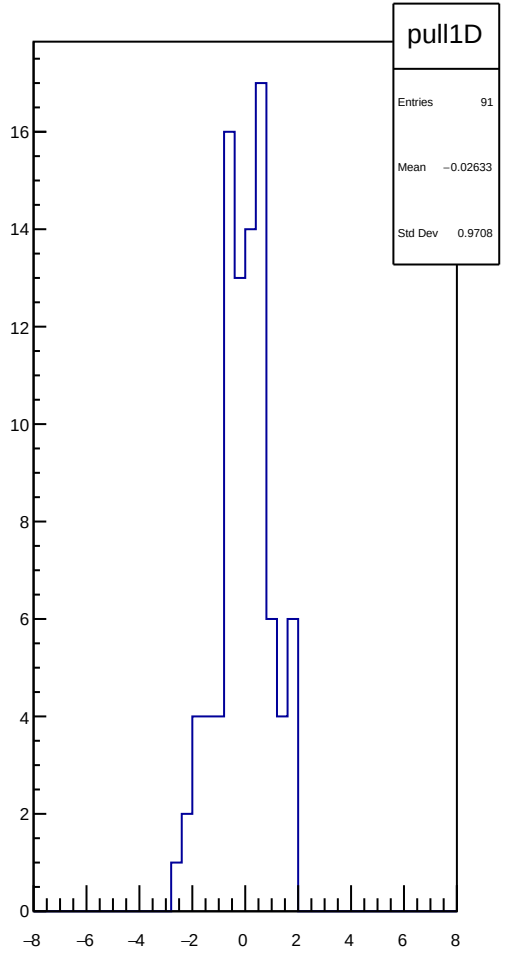

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.079e+05 / 90
p0 617.3 ± 0.474
1100
1000
900
800
700
600
500
400

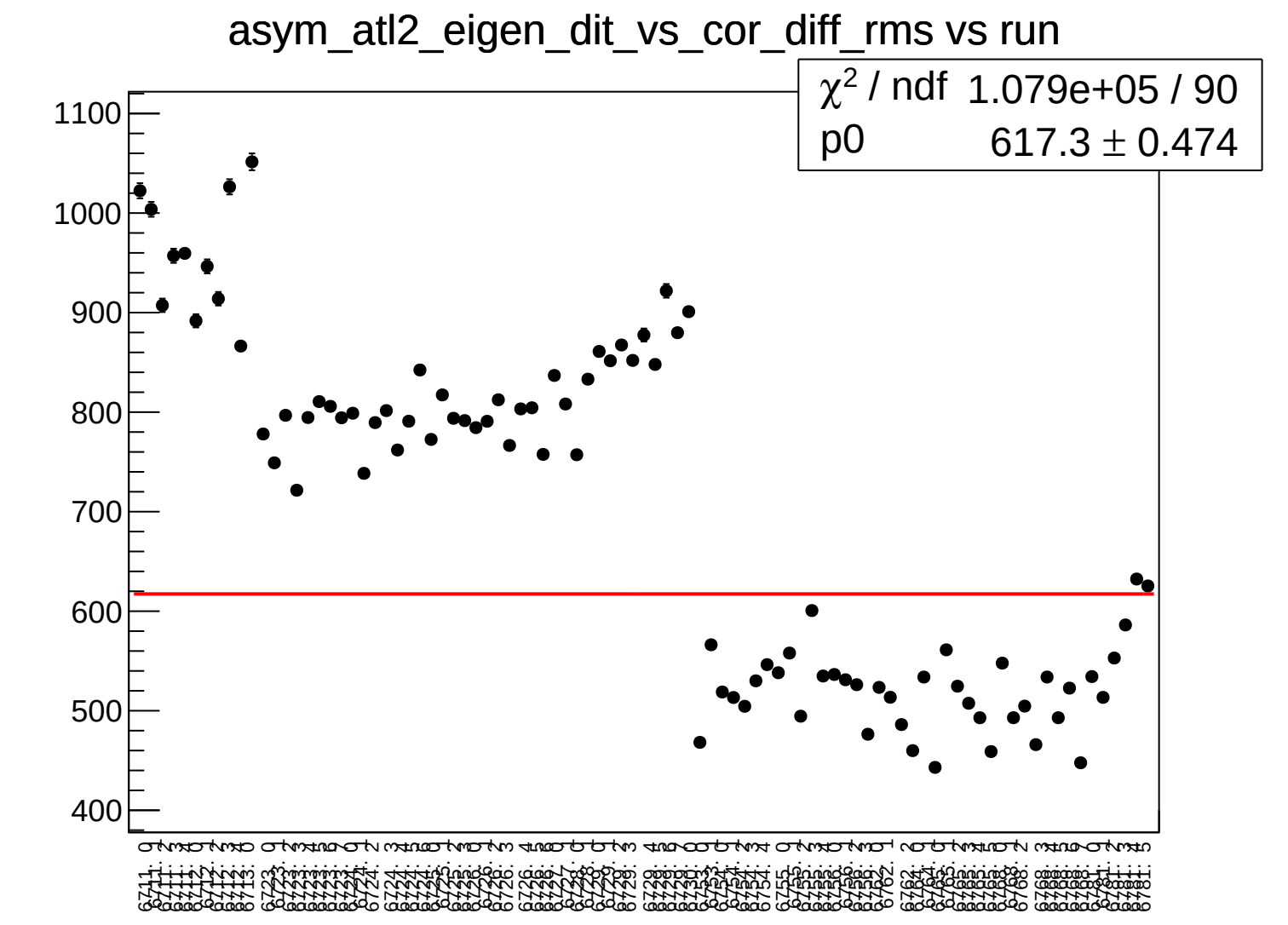

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 102.4 / 90
p0 1.395e−05 ± 1.06e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean −12.67
Std Dev 0
2
1
0
−1
−2

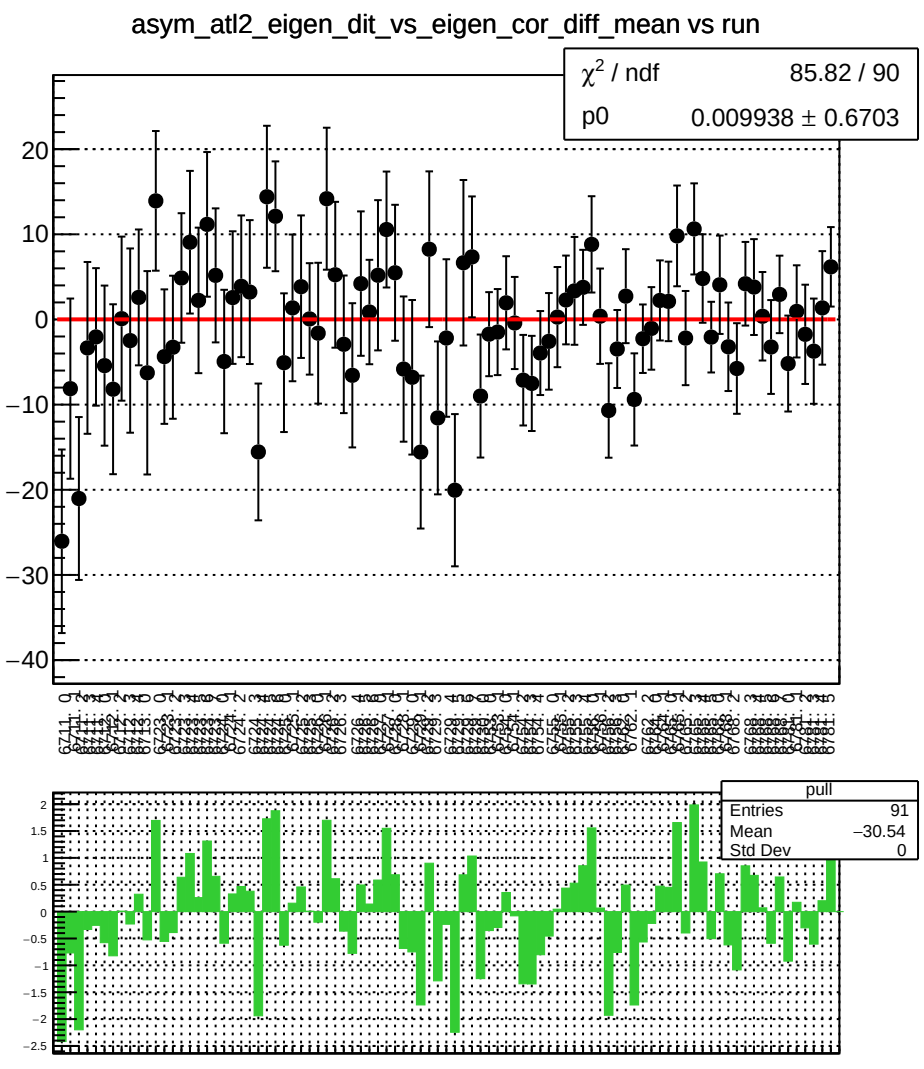

pull1D
Entries 91
Mean −0.0888
Std Dev 1.057
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

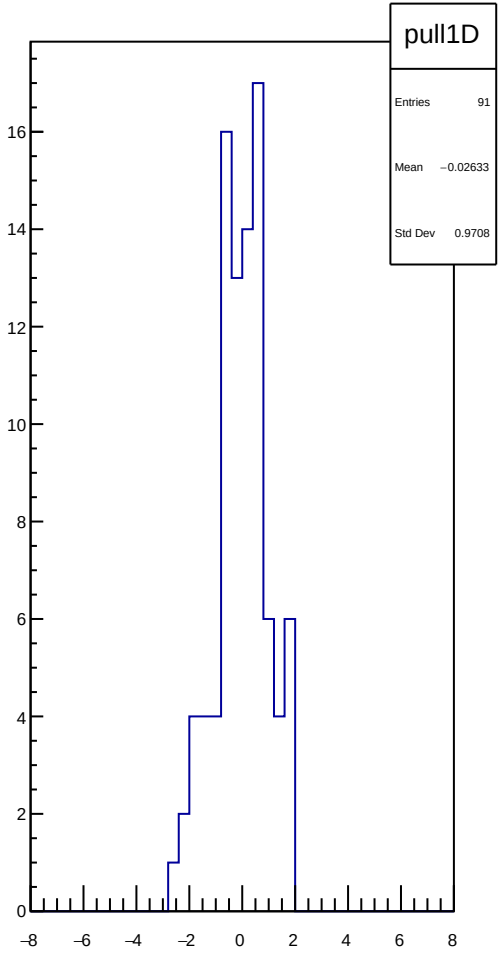

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.813e+05 / 90
p0 0.008292 ± 7.498e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

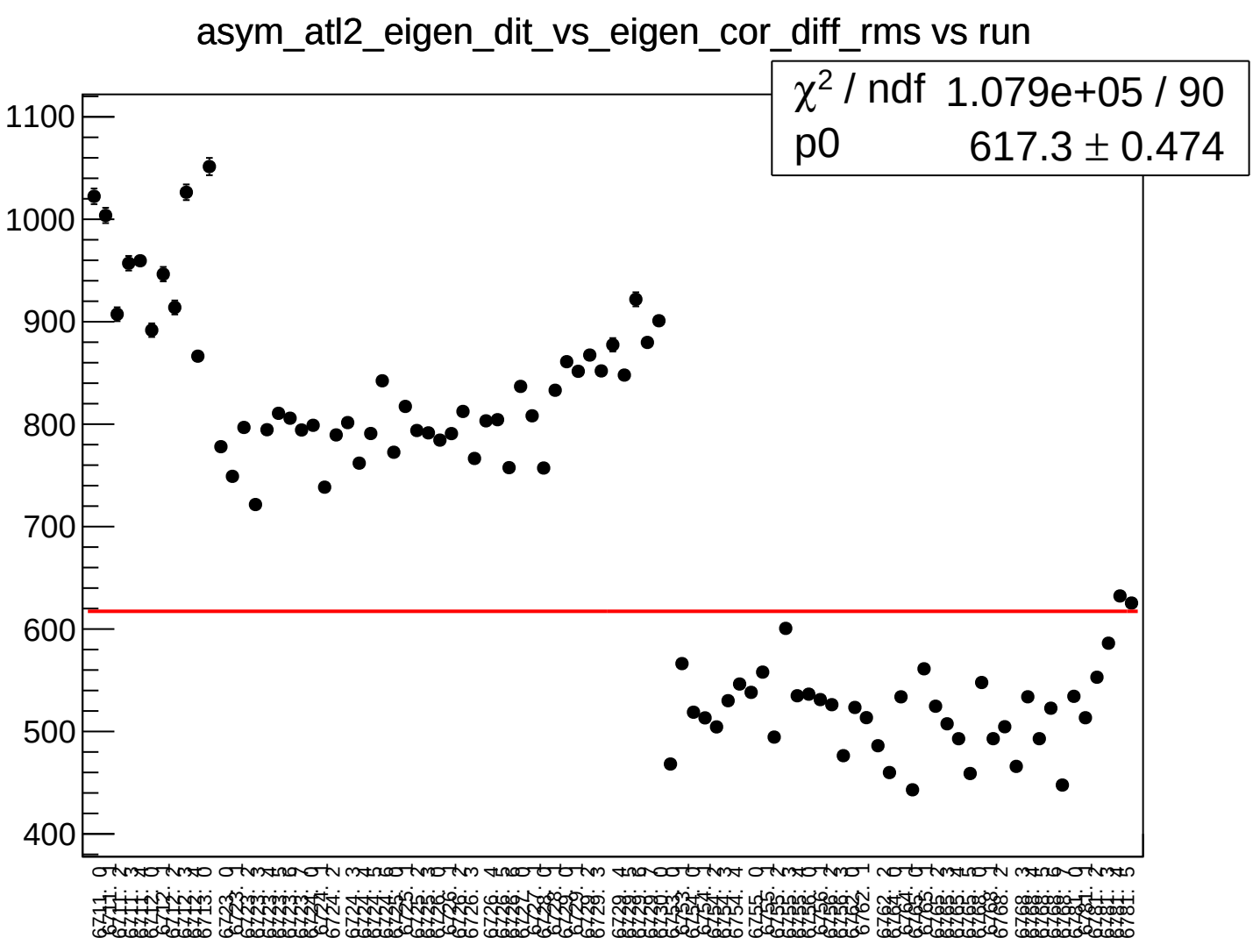

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.82 / 90
p0 0.009938 ± 0.6703
pull
Entries 91
Mean −30.54
Std Dev 0

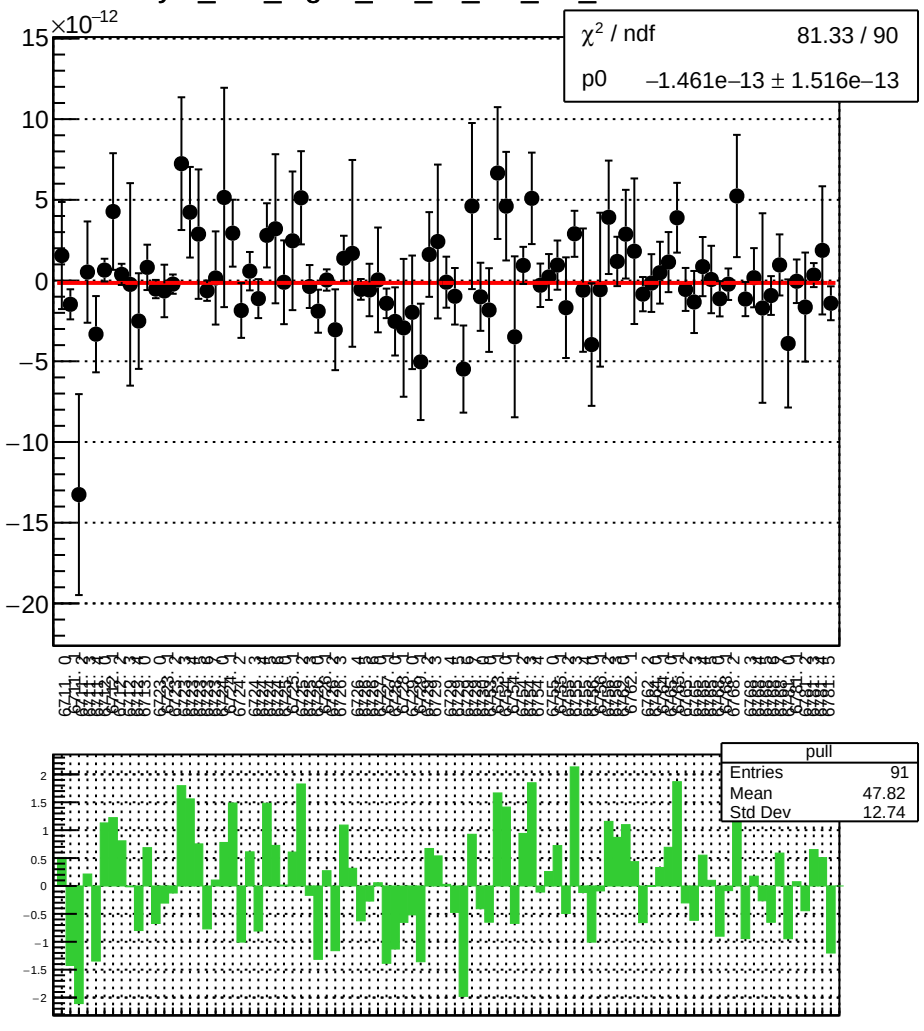

pull1D
Entries 91
Mean −0.02633
Std Dev 0.9708

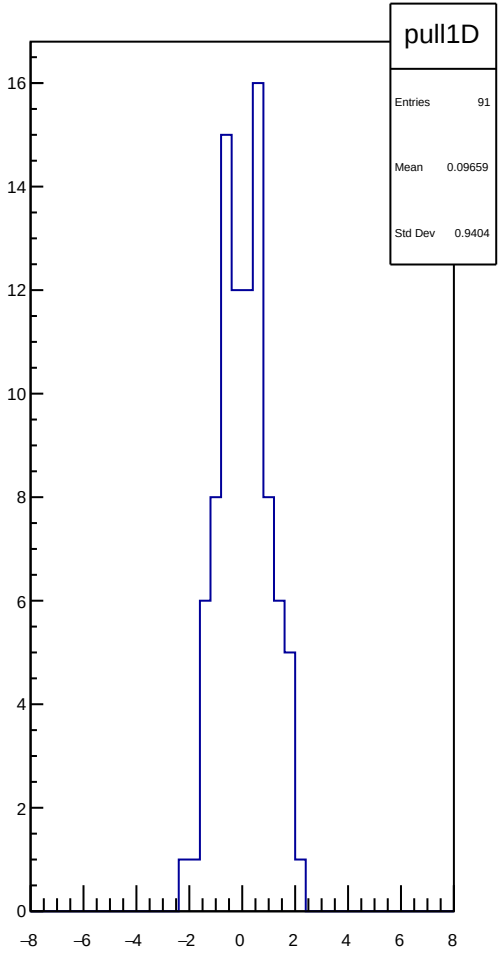

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.079e+05 / 90
p0 617.3 ± 0.474
1100
1000
900
800
700
600
500
400

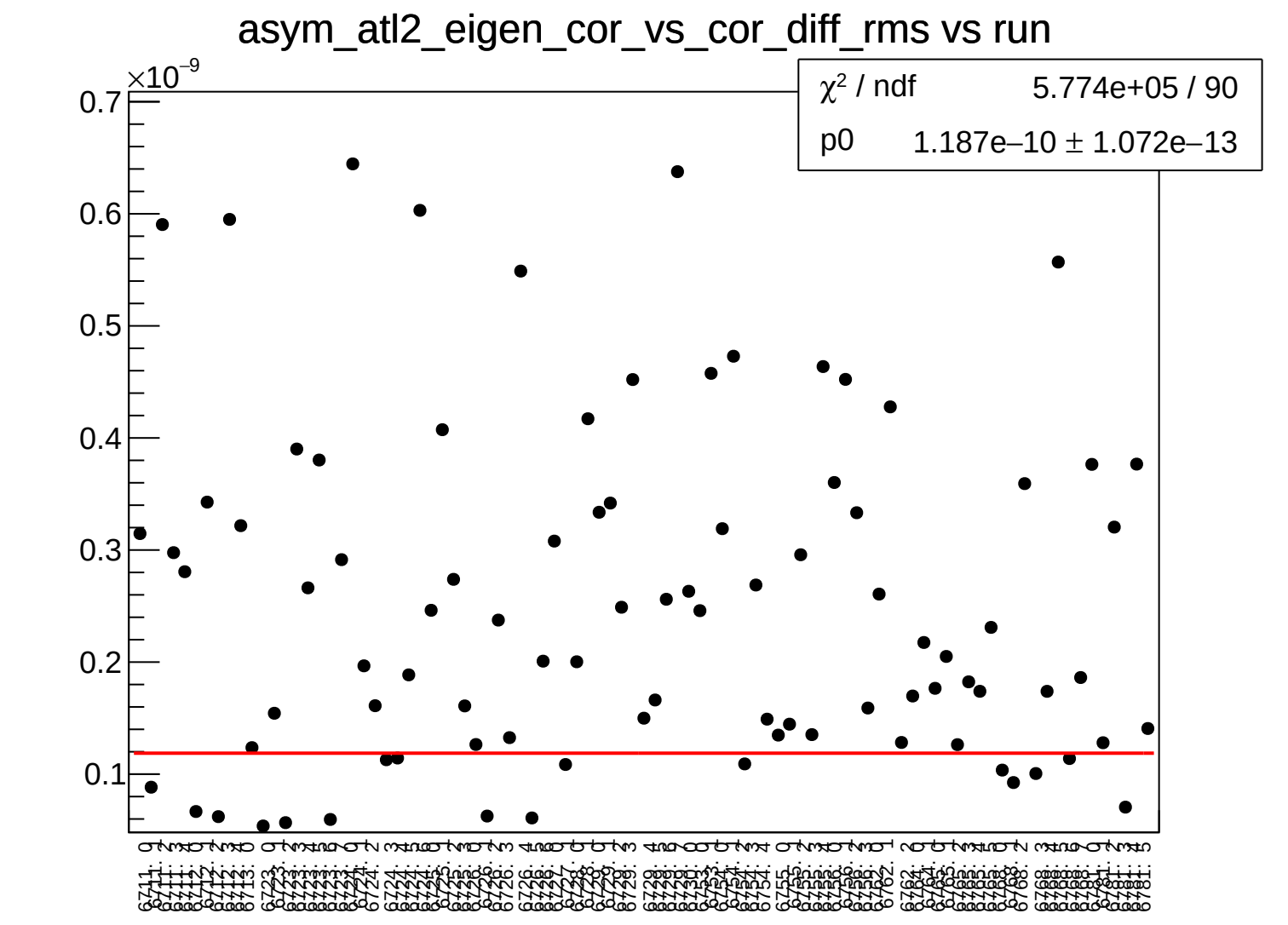

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.82 / 90
p0 0.009938 ± 0.6703
pull
Entries 91
Mean −30.54
Std Dev 0

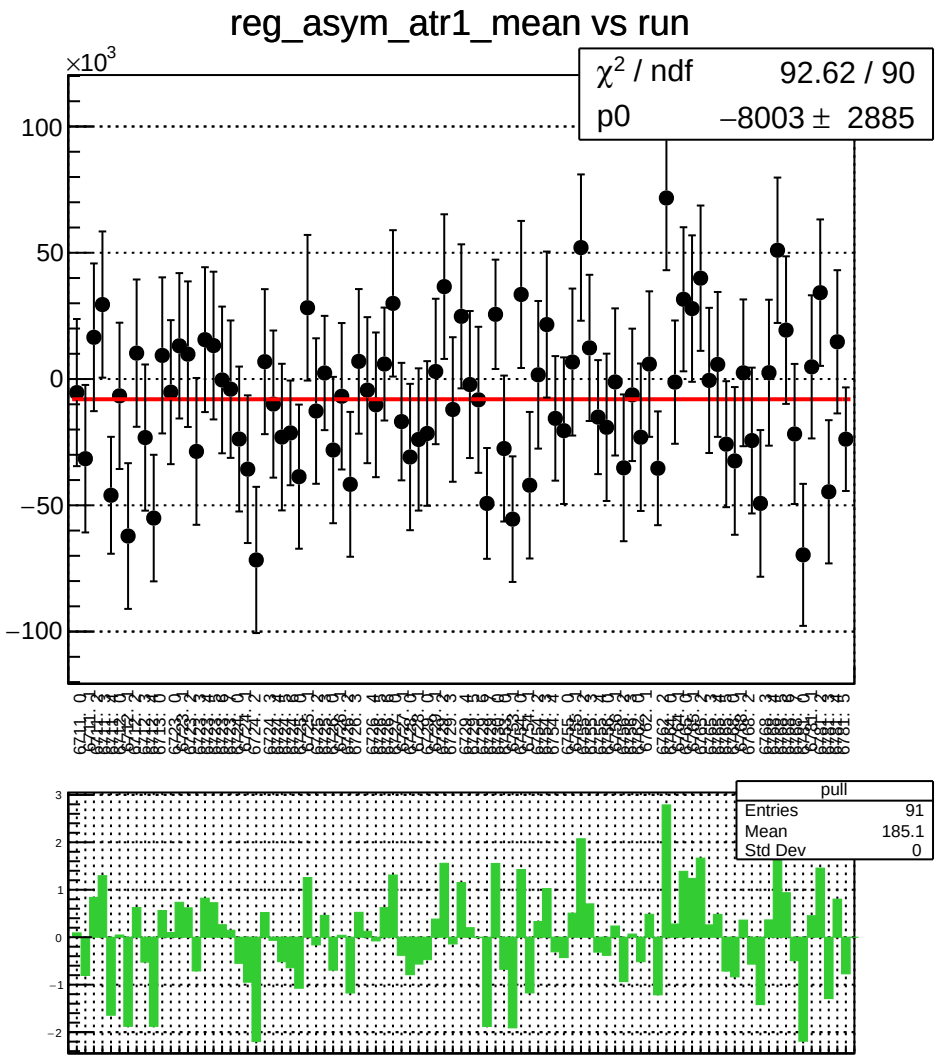

pull1D
Entries 91
Mean −0.02633
Std Dev 0.9708

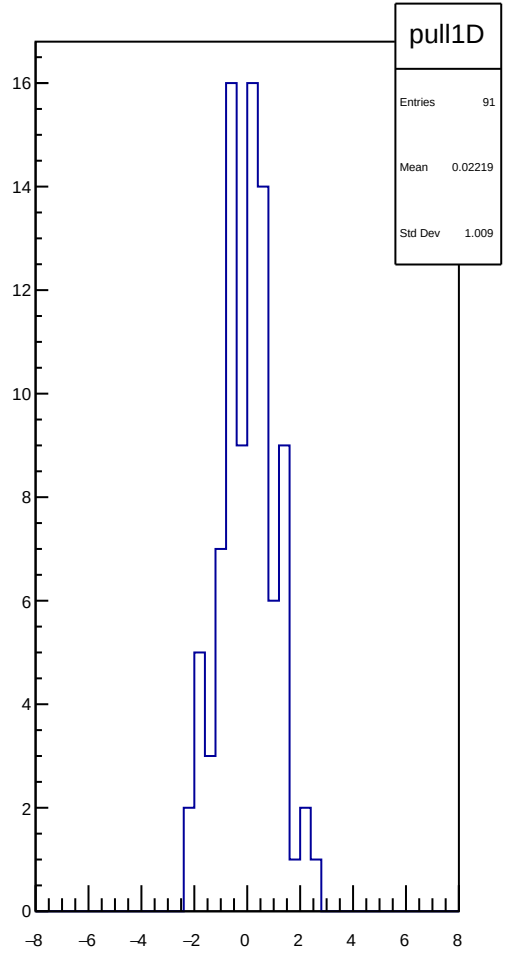

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.079e+05 / 90
p0 617.3 ± 0.474
1100
1000
900
800
700
600
500
400

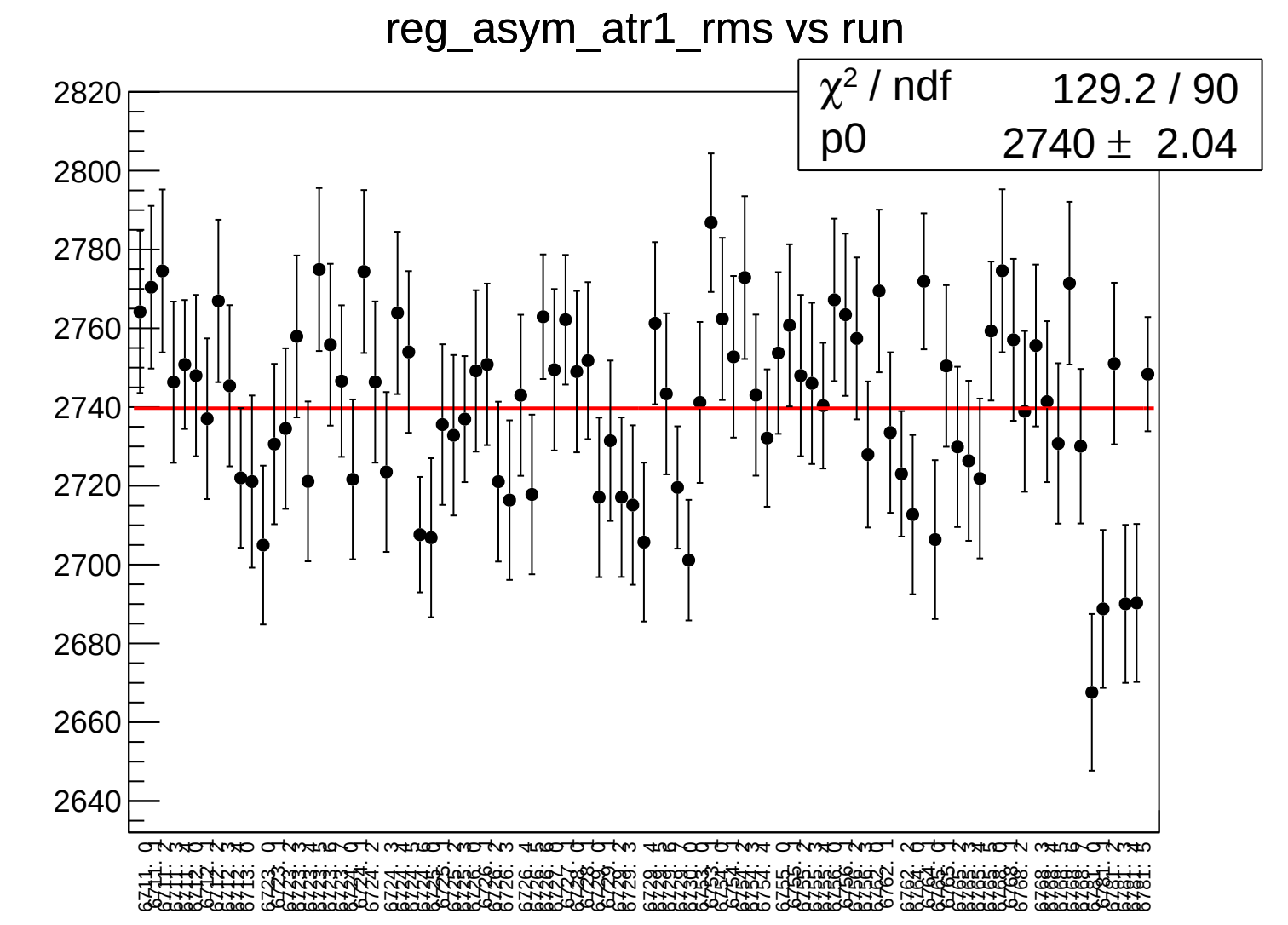

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.33 / 90
p0 −1.461e−13 ± 1.516e−13
pull
Entries 91
Mean 47.82
Std Dev 12.74

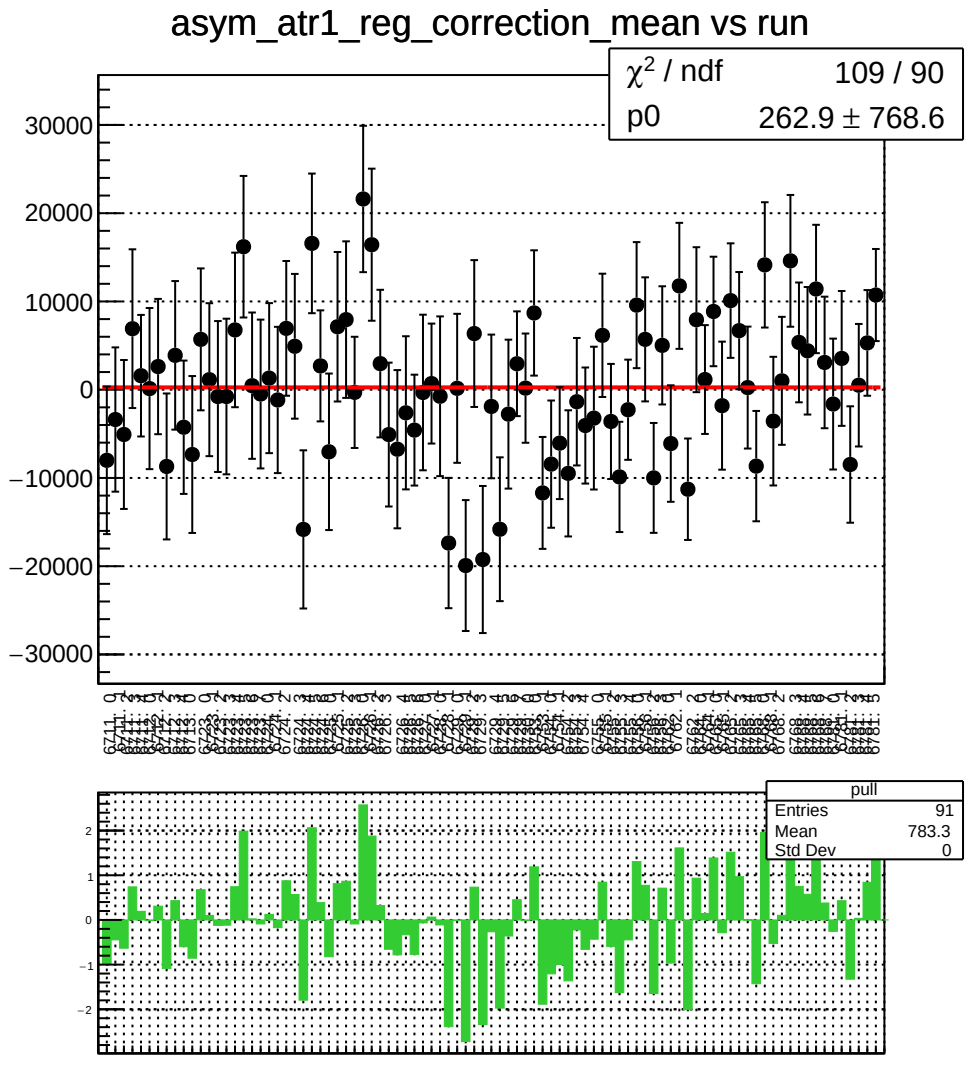

pull1D
Entries 91
Mean 0.09659
Std Dev 0.9404

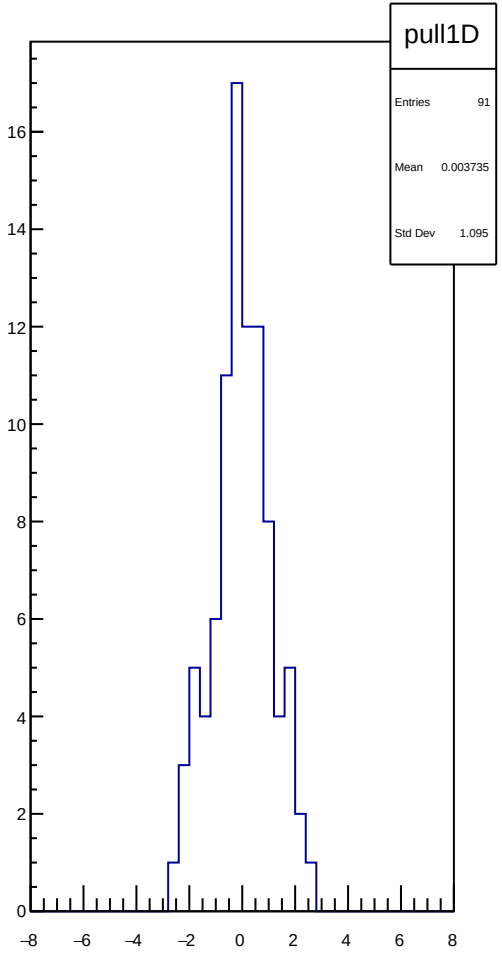

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 5.774e+05 / 90
p0 1.187e−10 ± 1.072e−13

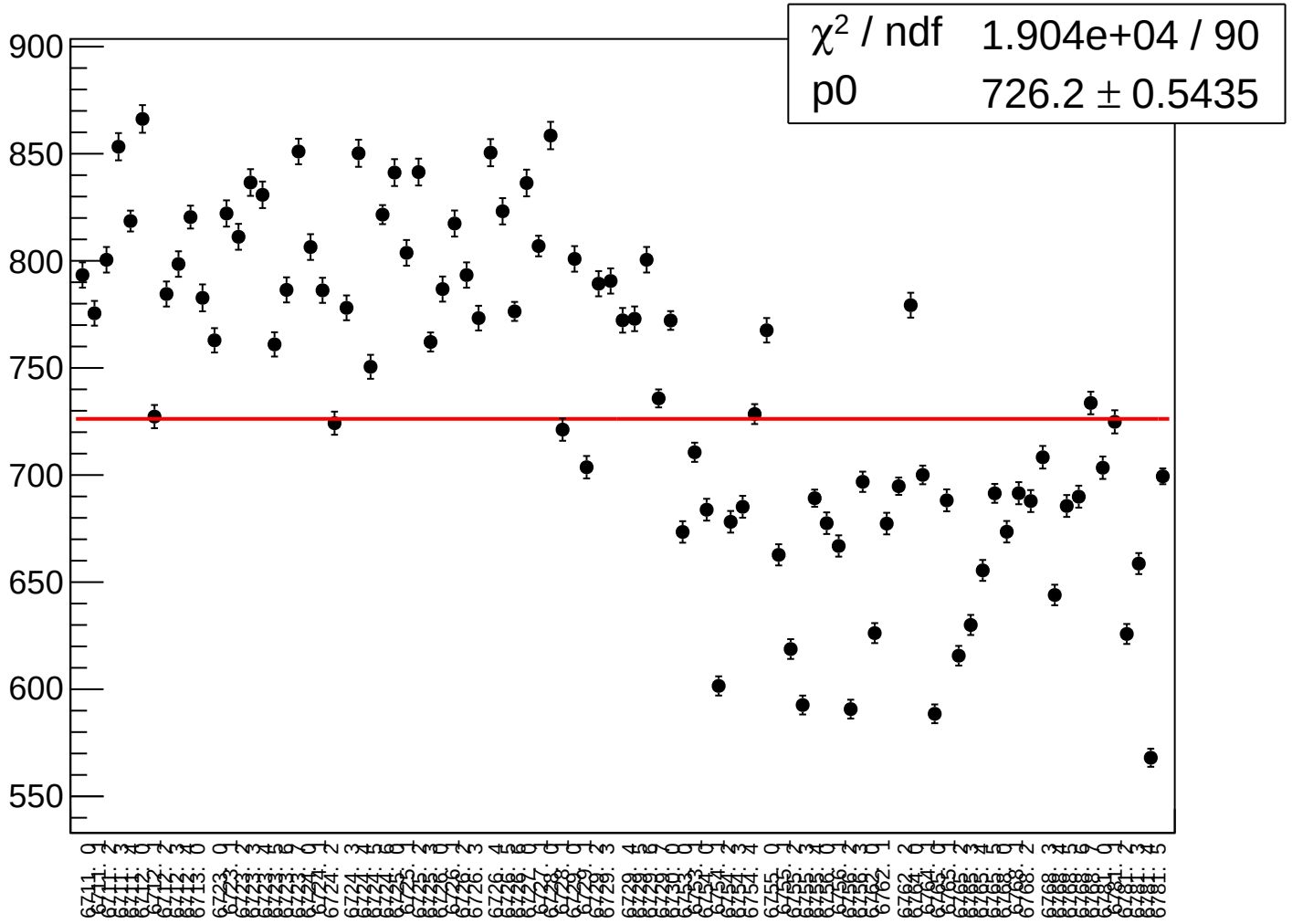

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 92.62 / 90
p0 −8003 ± 2885
100
50
0
−50
−100
pull
Entries 91
Mean 185.1
Std Dev 0
3
2
1
0
−1
−2

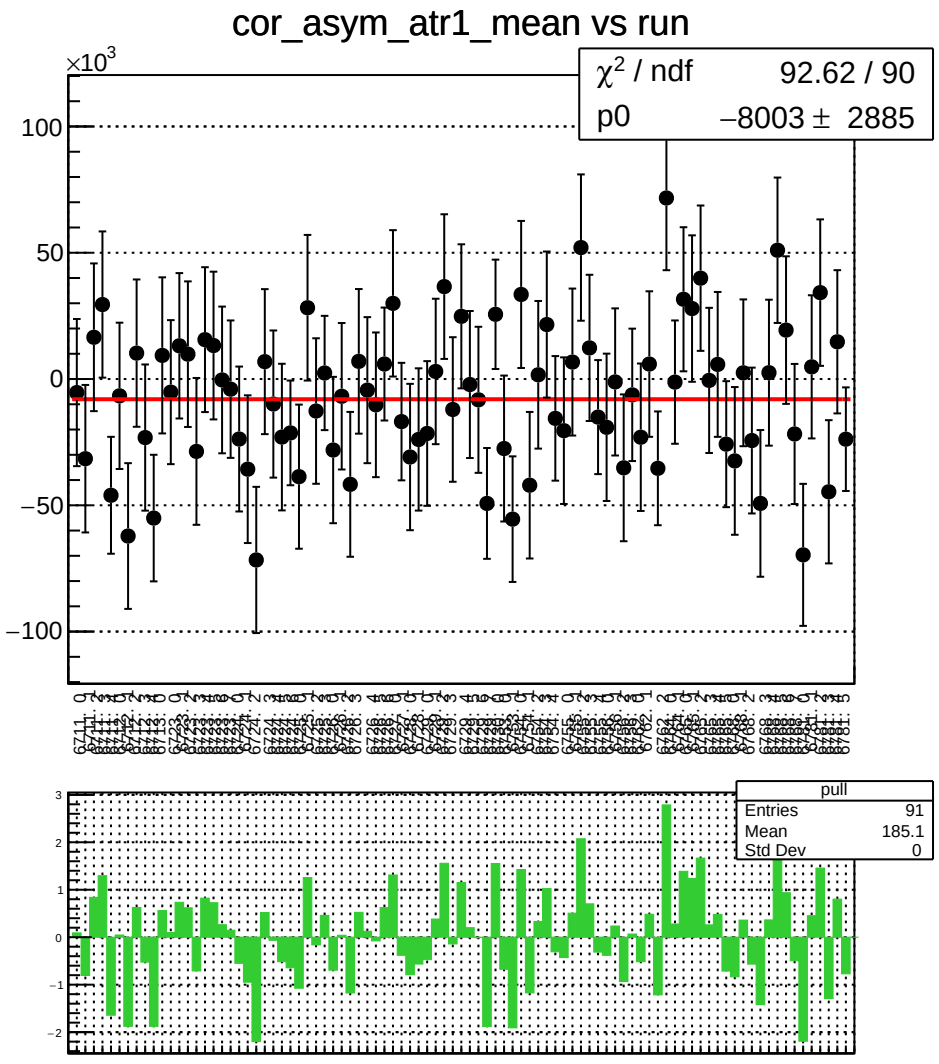

pull1D
Entries 91
Mean 0.02219
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

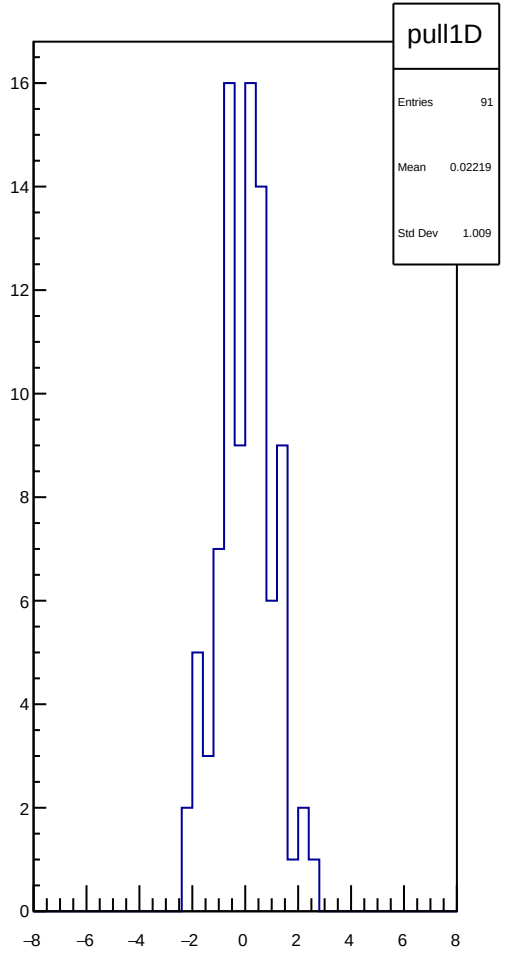

reg_asym_atr1_rms vs run
χ² / ndf 129.2 / 90
p0 2740 ± 2.04
2820
2800
2780
2760
2740
2720
2700
2680
2660
2640

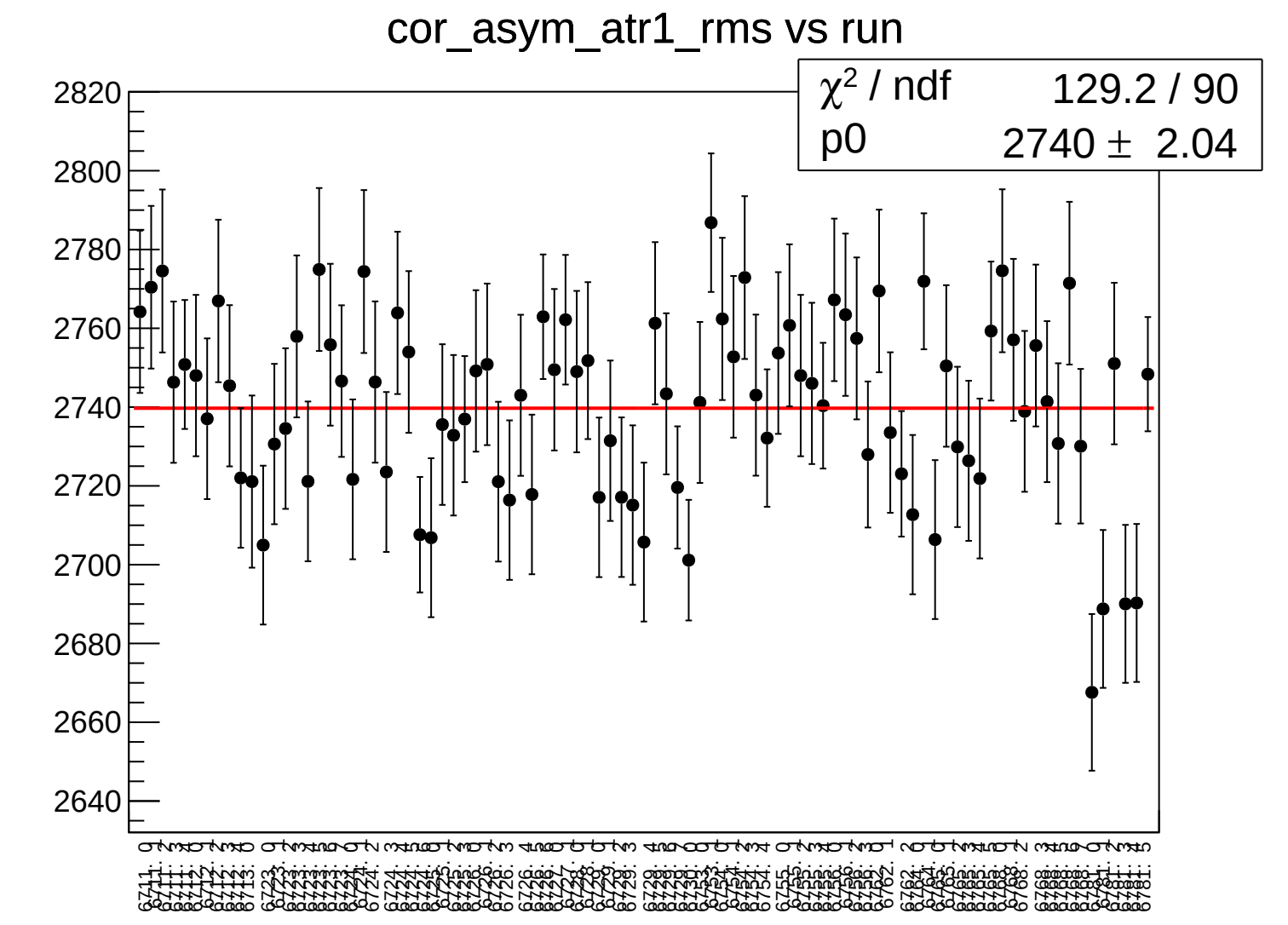

asym_atr1_reg_correction_mean vs run
χ² / ndf 109 / 90
p0 262.9 ± 768.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 783.3
Std Dev 0
2
1
0
−1
−2

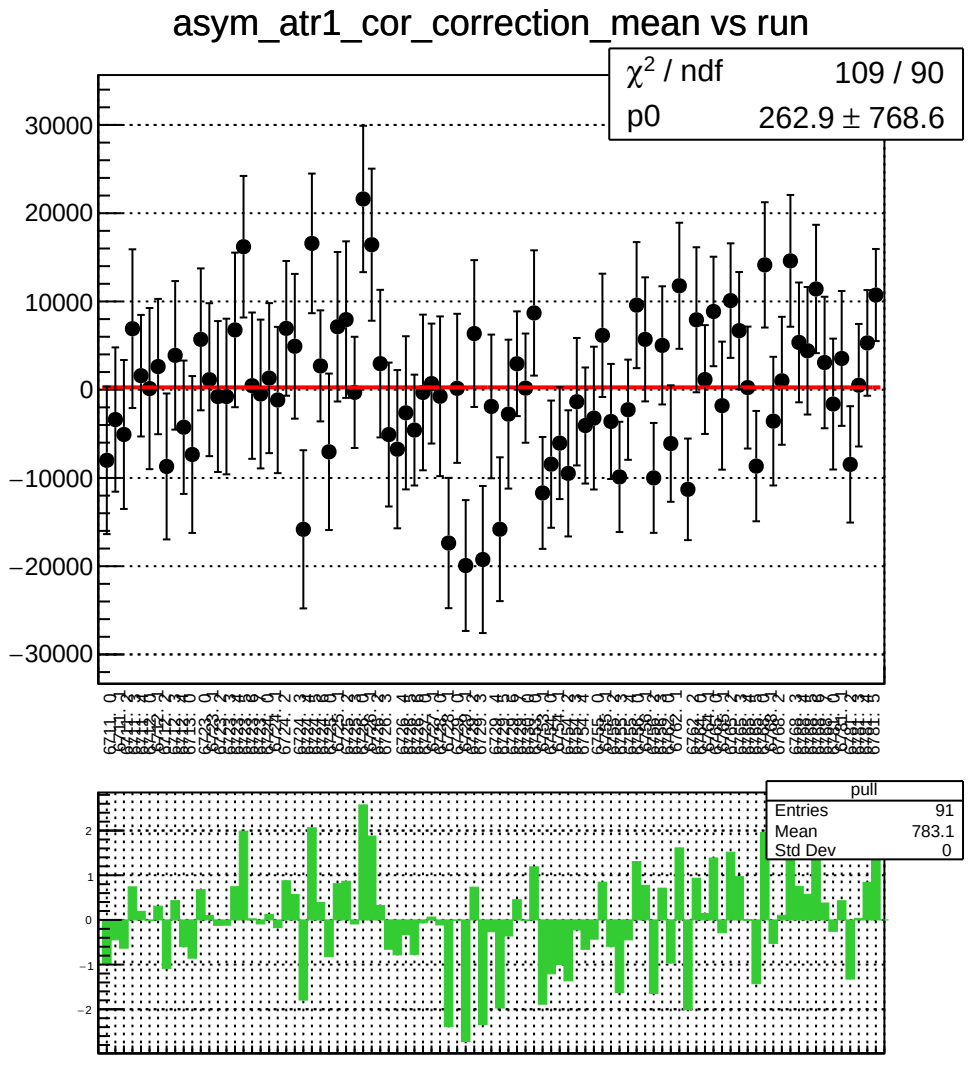

pull1D
Entries 91
Mean 0.003735
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

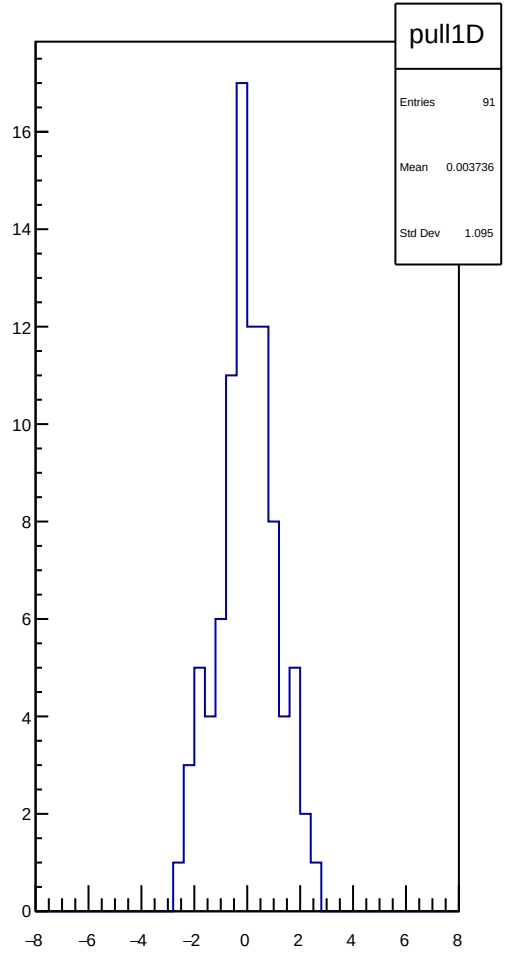

asym_atr1_reg_correction_rms vs run
χ² / ndf 1.904e+04 / 90
p0 726.2 ± 0.5435
900
850
800
750
700
650
600
550

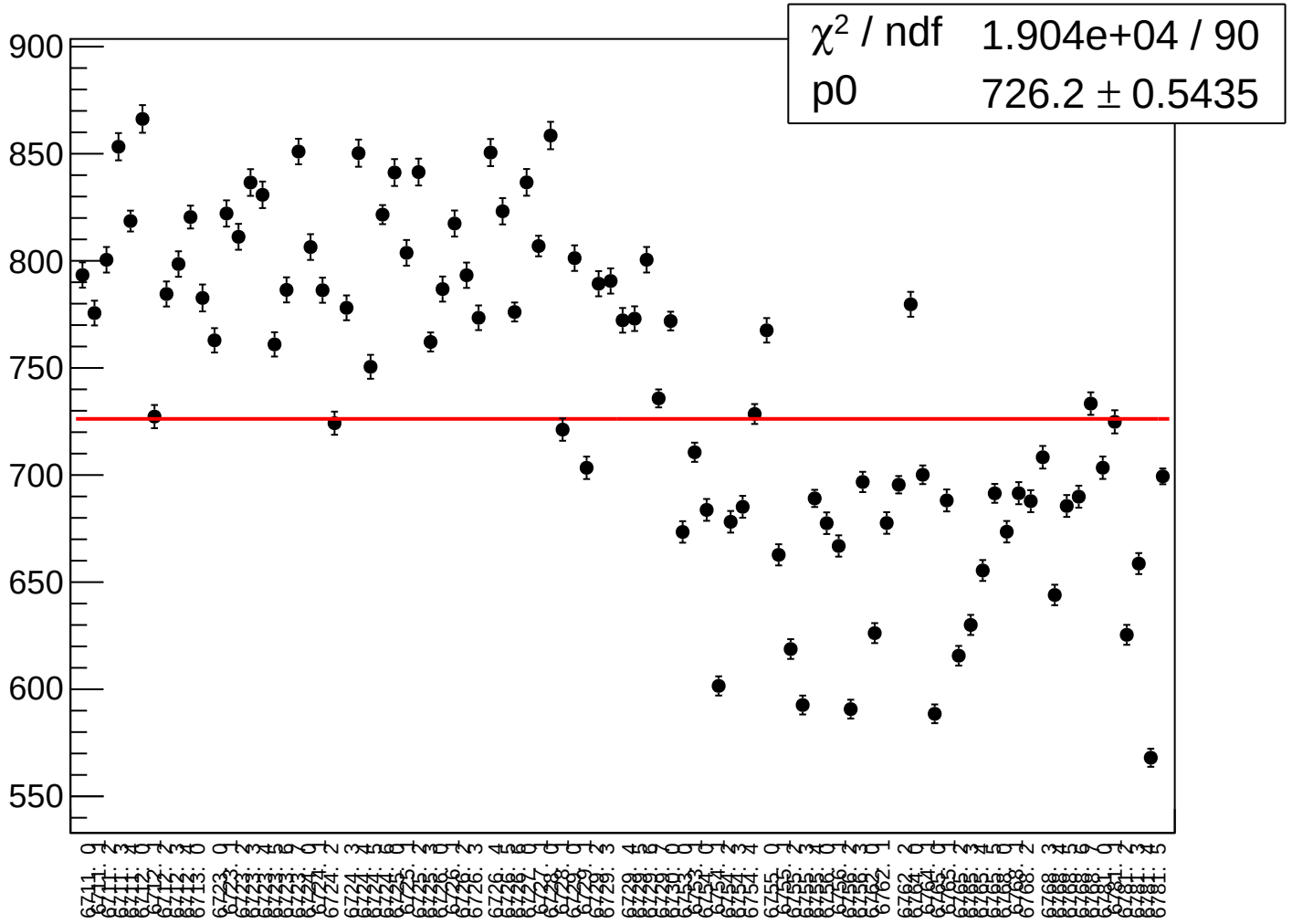

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 92.62 / 90
p0 −8003 ± 2885
100
50
0
−50
−100
pull
Entries 91
Mean 185.1
Std Dev 0
3
2
1
0
−1
−2

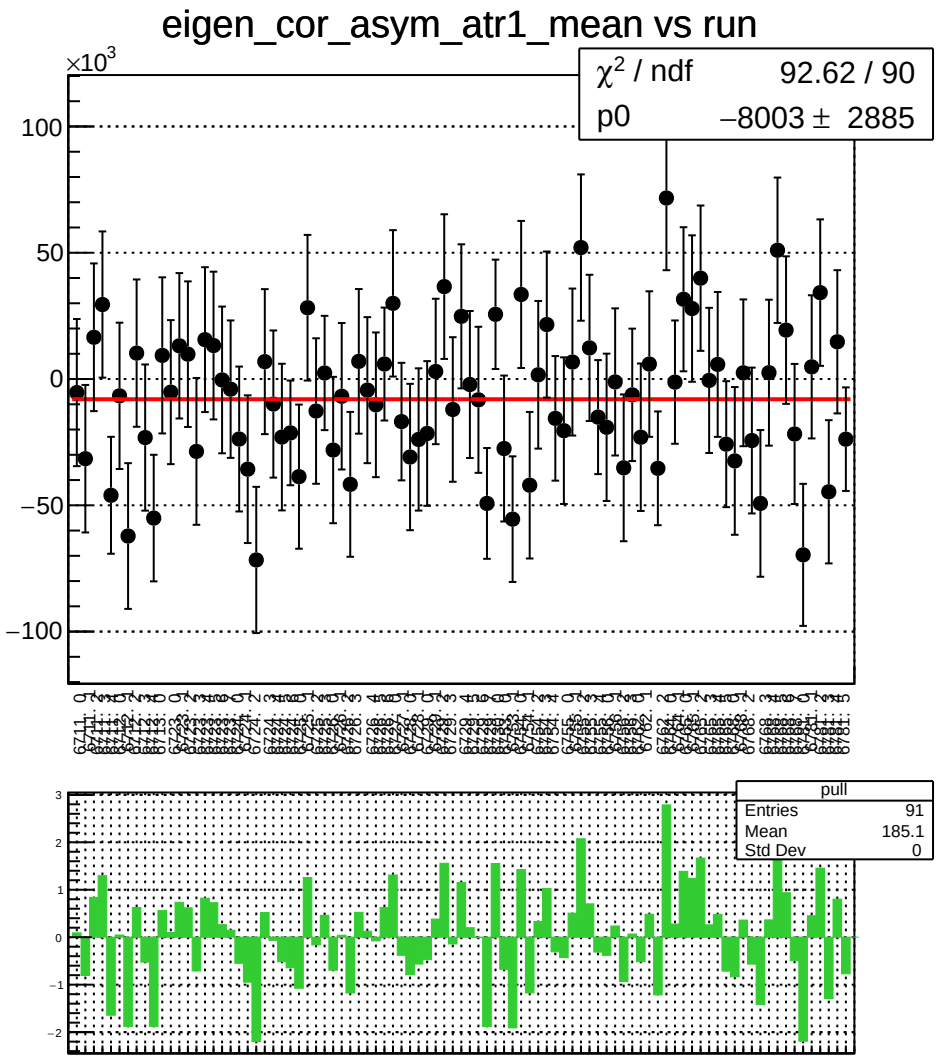

pull1D
Entries 91
Mean 0.02219
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

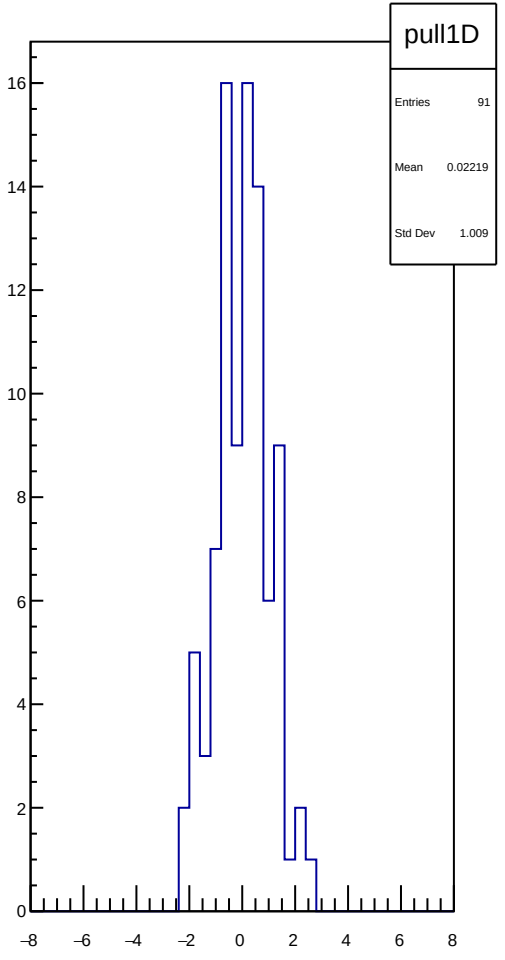

cor_asym_atr1_rms vs run
χ² / ndf 129.2 / 90
p0 2740 ± 2.04
2820
2800
2780
2760
2740
2720
2700
2680
2660
2640

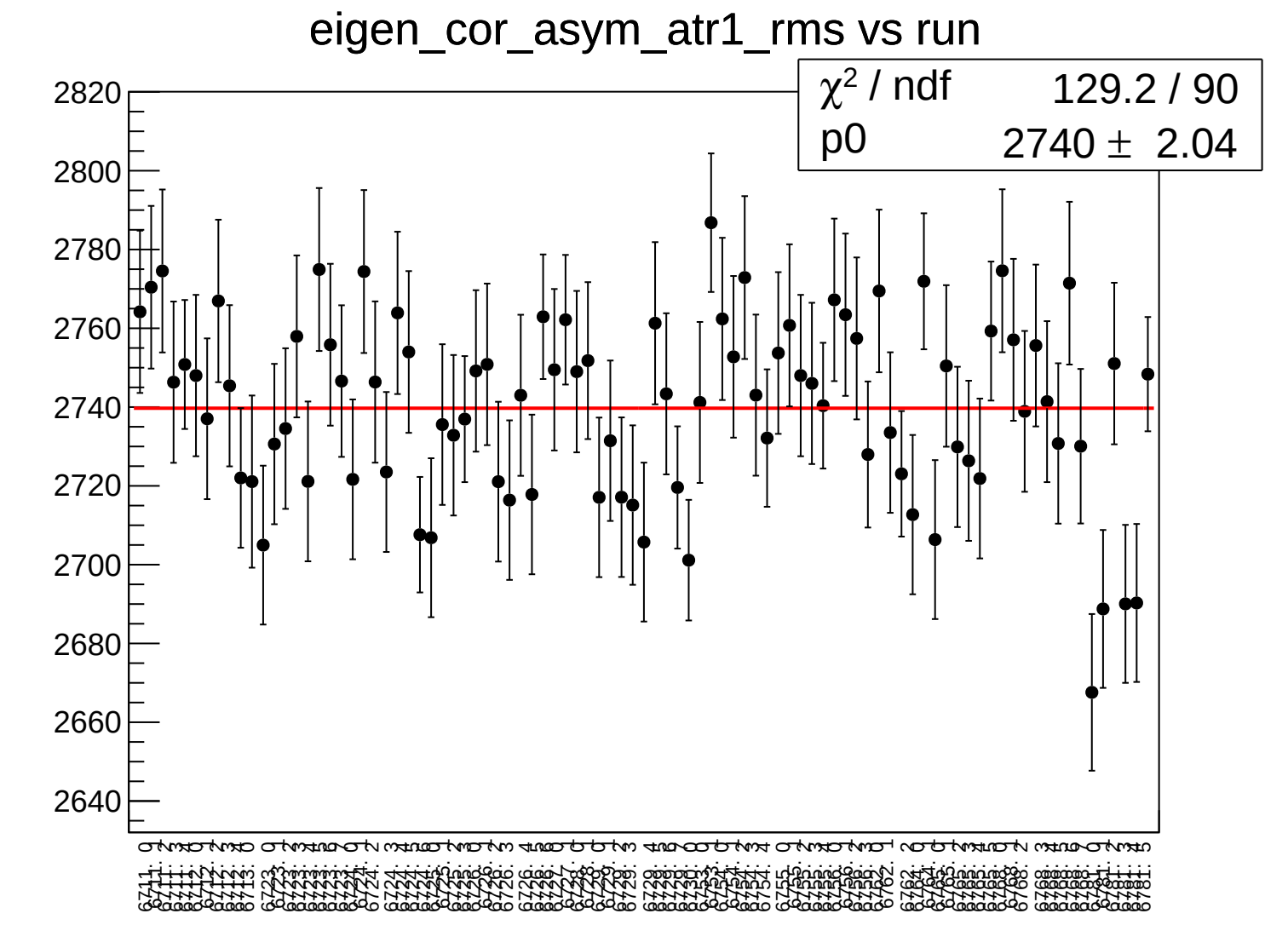

asym_atr1_cor_correction_mean vs run
χ² / ndf 109 / 90
p0 262.9 ± 768.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 783.1
Std Dev 0
2
1
0
−1
−2

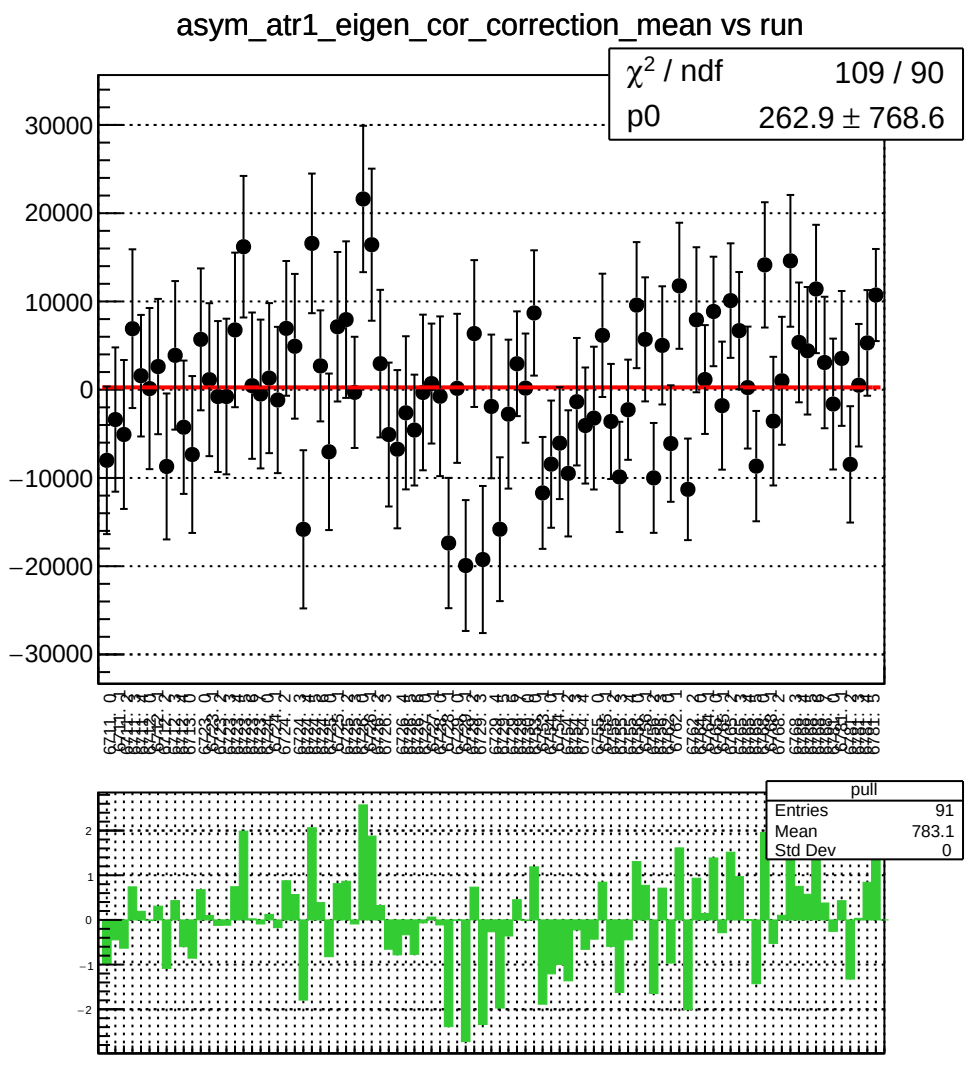

pull1D
Entries 91
Mean 0.003736
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

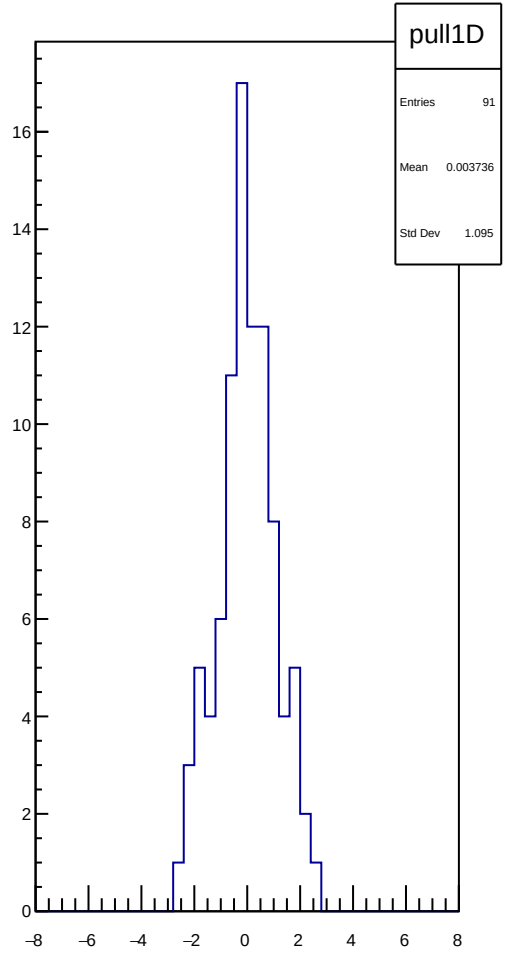

asym_atr1_cor_correction_rms vs run
χ² / ndf 1.904e+04 / 90
p0 726.2 ± 0.5435
900
850
800
750
700
650
600
550

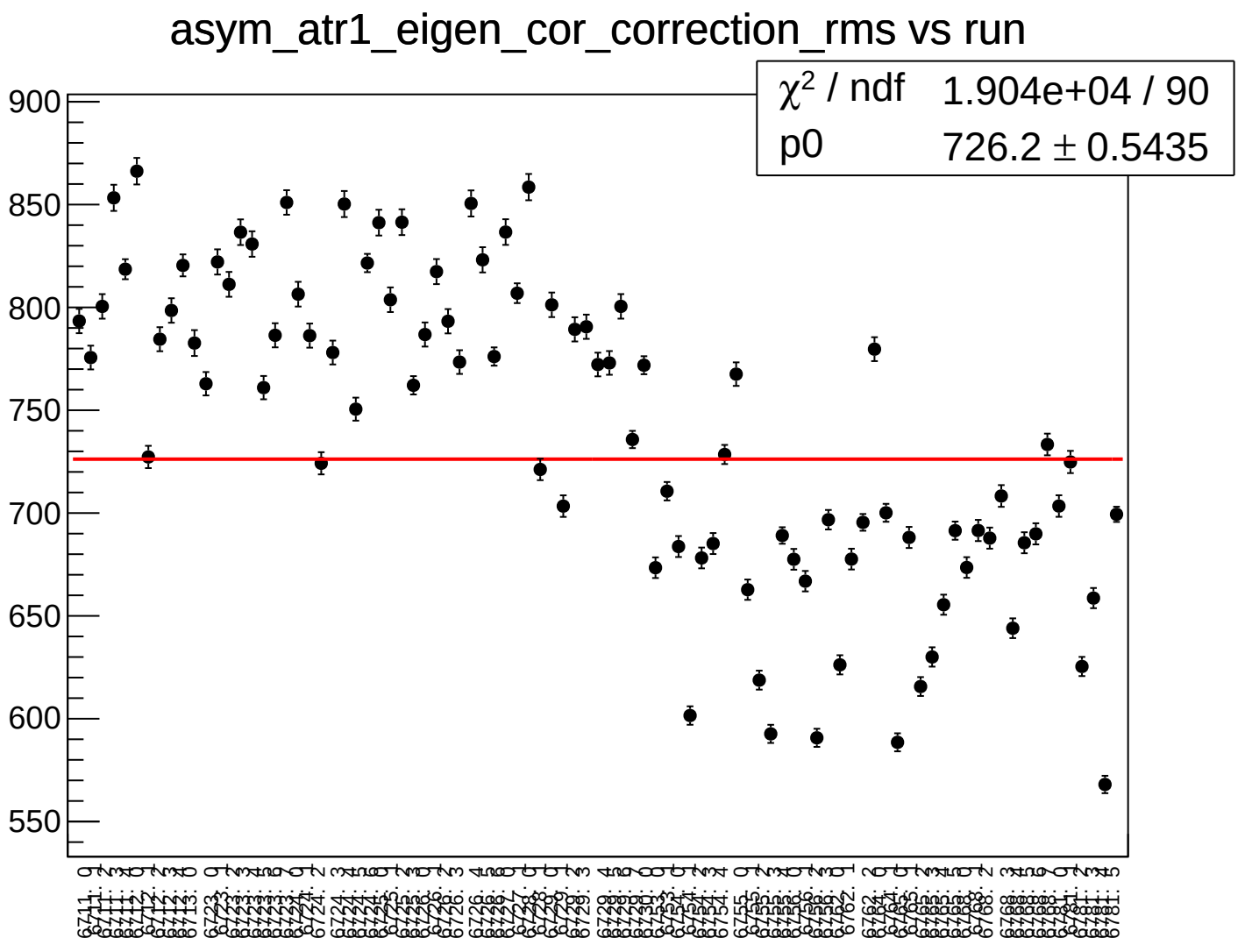

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 92.62 / 90
p0 −8003 ± 2885
100
50
0
−50
−100
pull
Entries 91
Mean 185.1
Std Dev 0
3
2
1
0
−1
−2

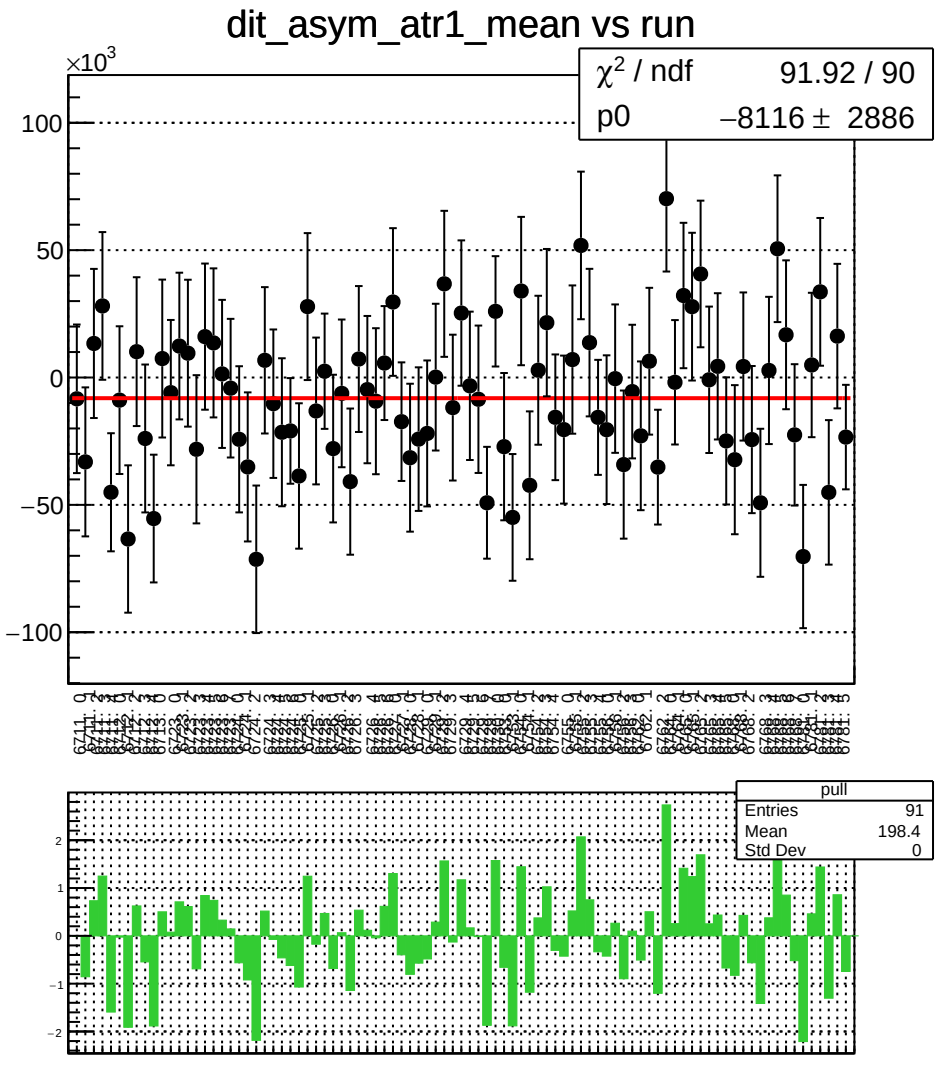

pull1D
Entries 91
Mean 0.02219
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

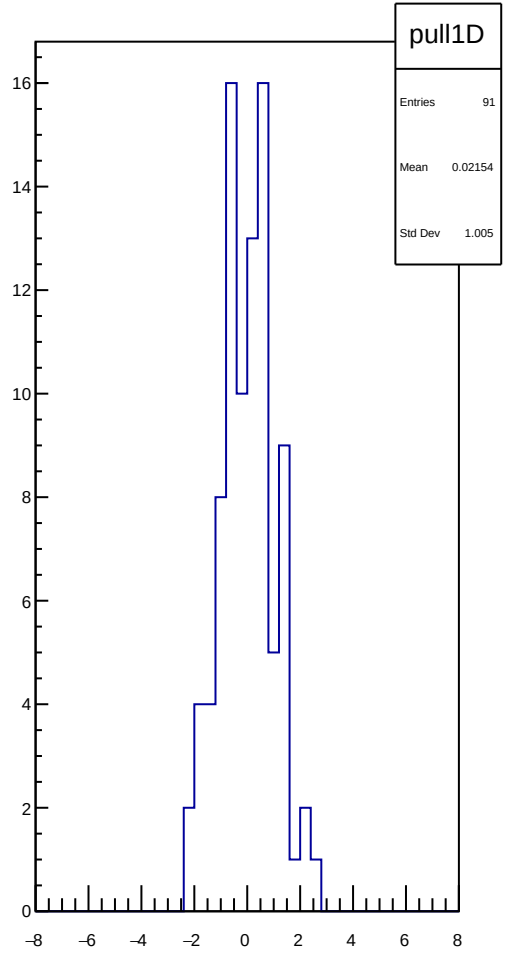

eigen_cor_asym_atr1_rms vs run
χ² / ndf 129.2 / 90
p0 2740 ± 2.04
2820
2800
2780
2760
2740
2720
2700
2680
2660
2640

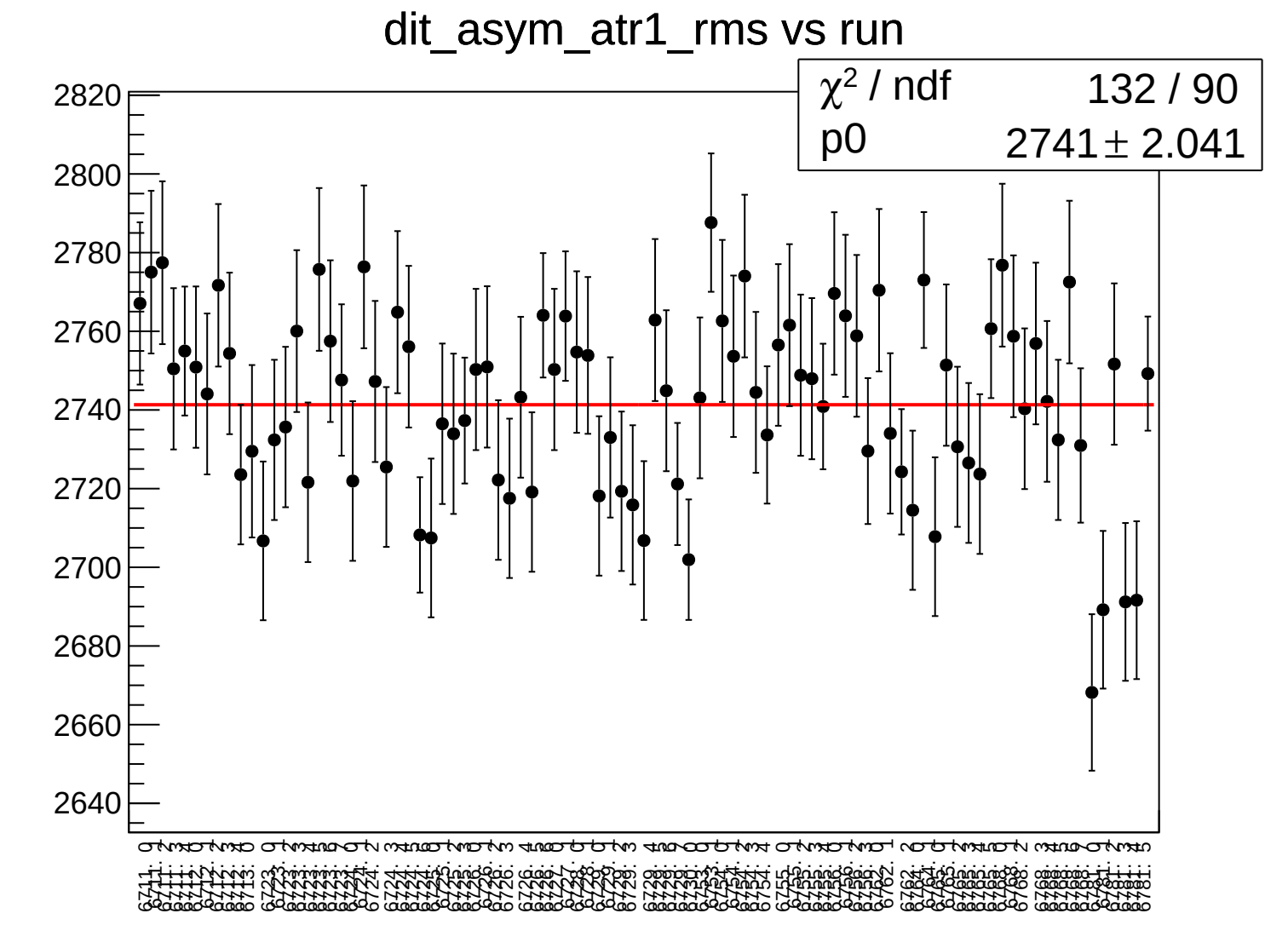

asym_atr1_eigen_cor_correction_mean vs run
χ^2 / ndf 109 / 90
p0 262.9 ± 768.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 783.1
Std Dev 0
2
1
0
−1
−2

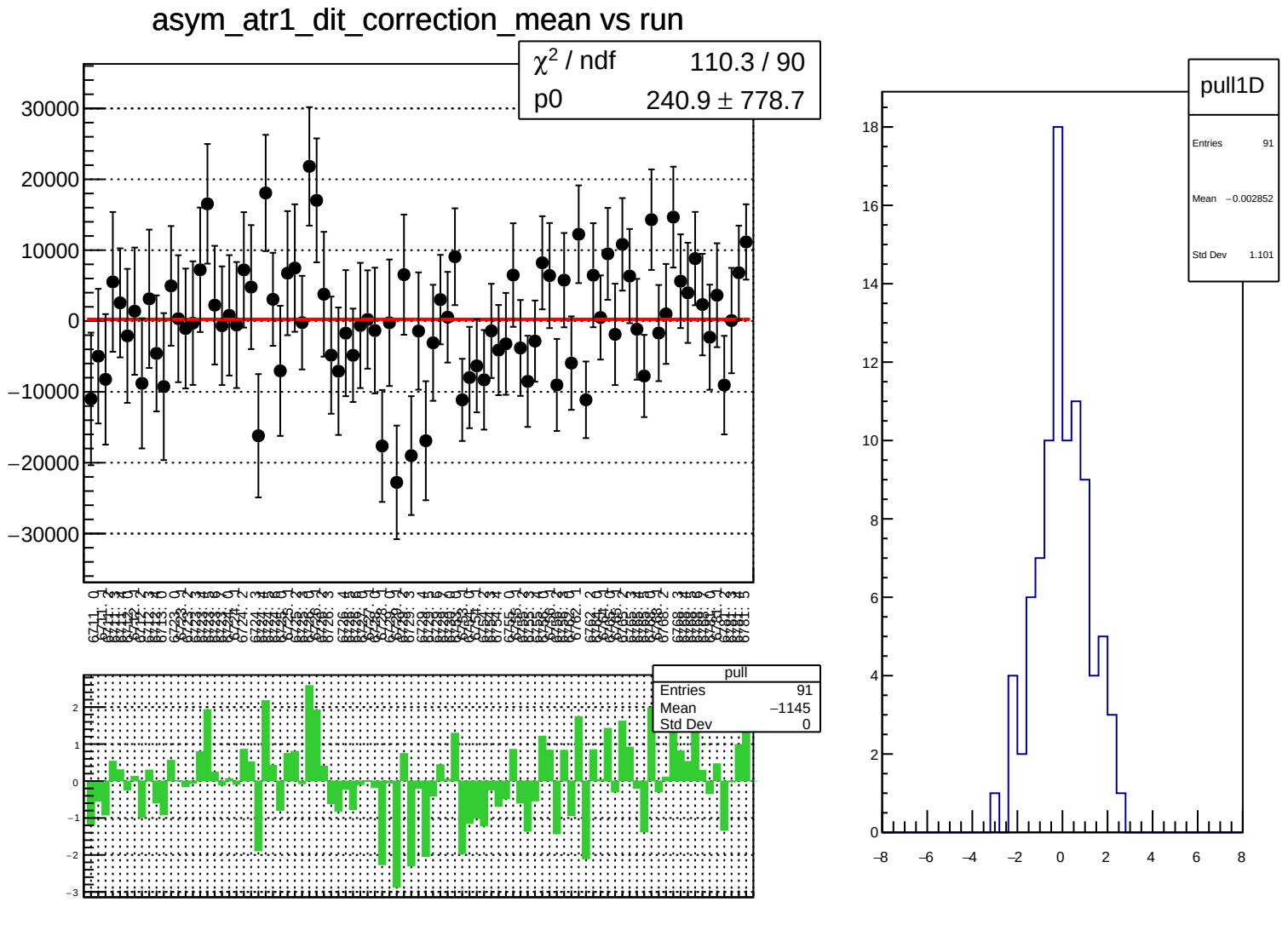

pull1D
Entries 91
Mean 0.003736
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

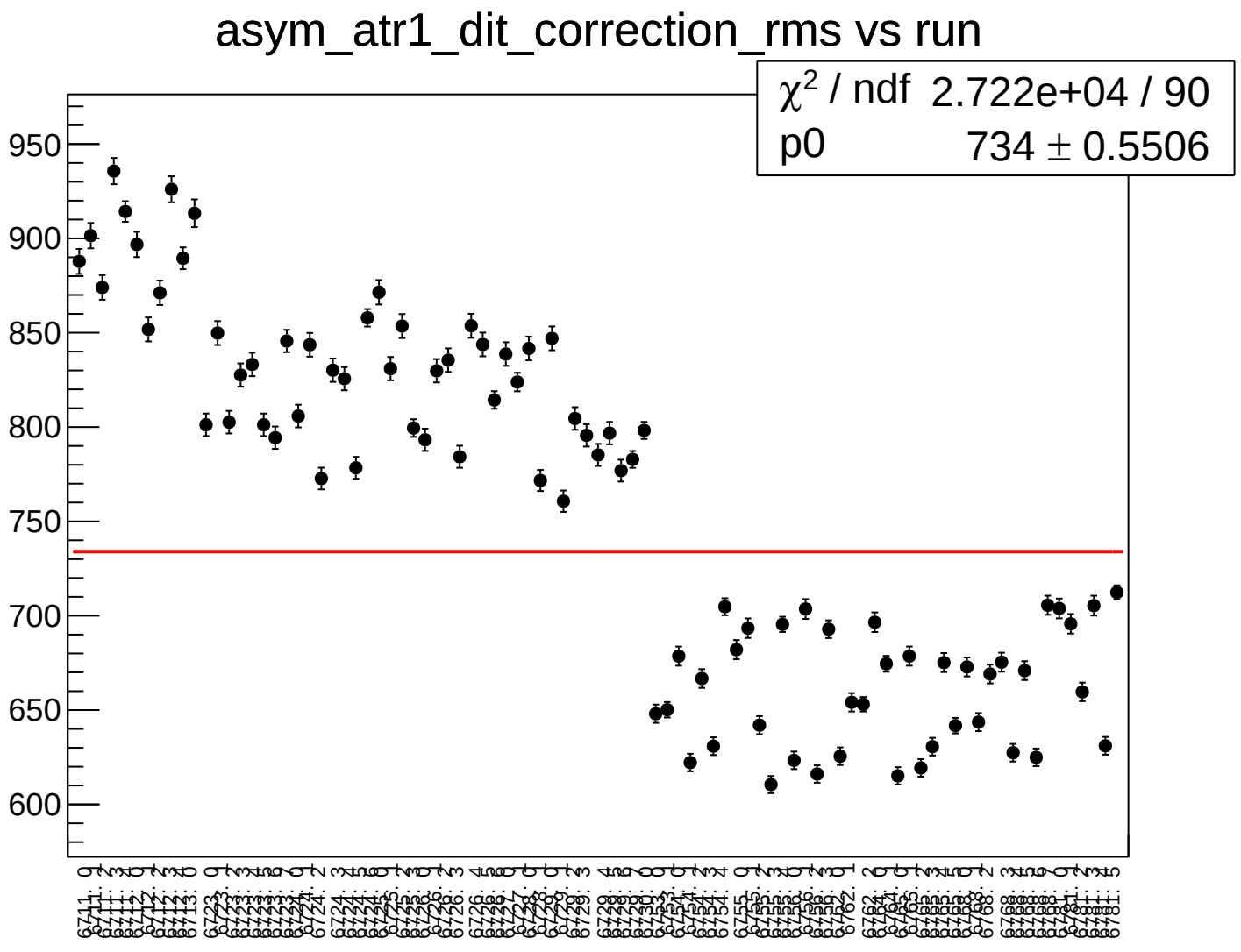

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 1.904e+04 / 90
p0 726.2 ± 0.5435
900
850
800
750
700
650
600
550

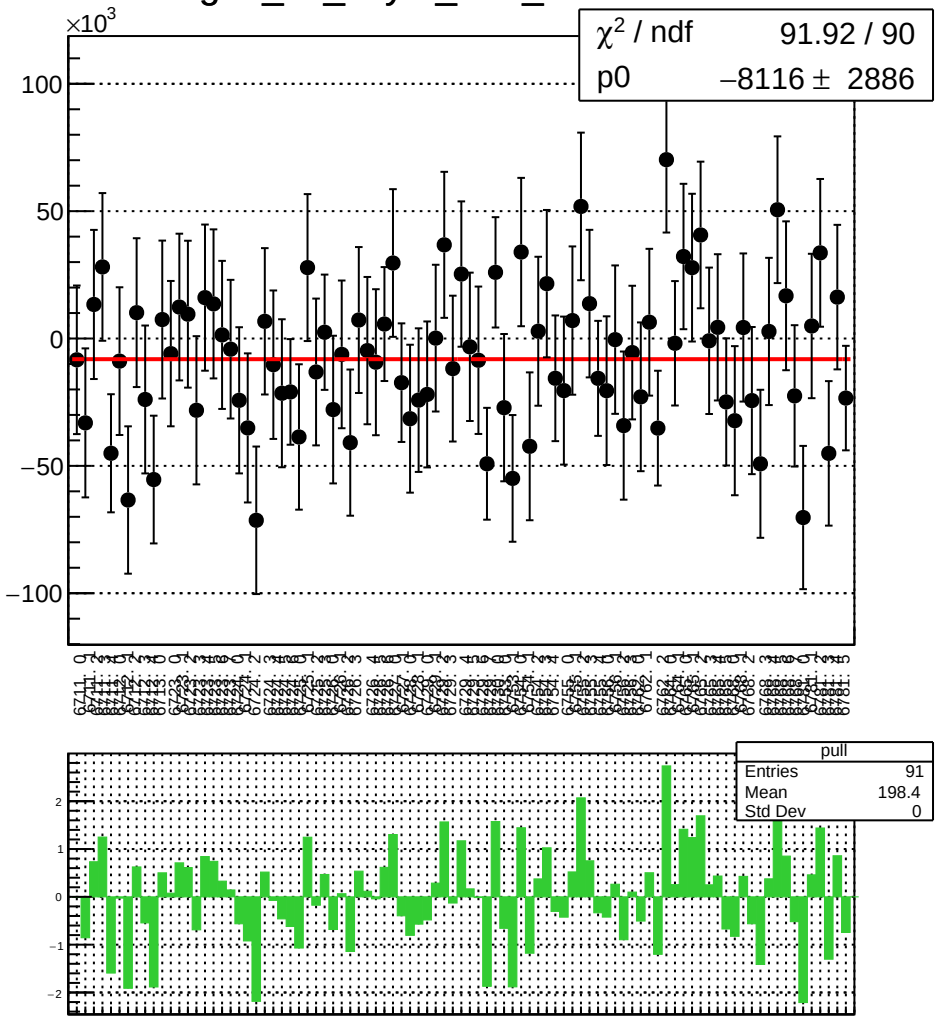

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 91.92 / 90
p0 −8116 ± 2886
100
50
0
−50
−100
pull
Entries 91
Mean 198.4
Std Dev 0
2
1
0
−1
−2

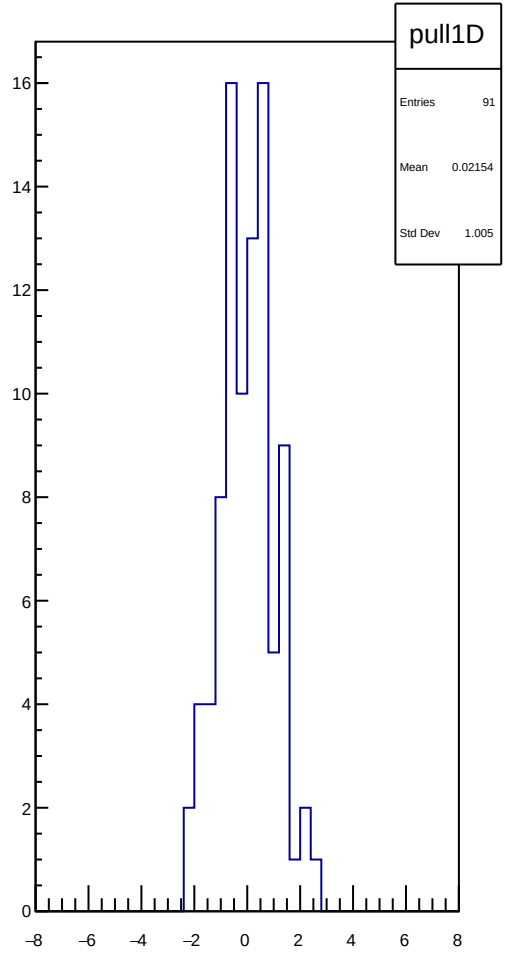

pull1D
Entries 91
Mean 0.02154
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

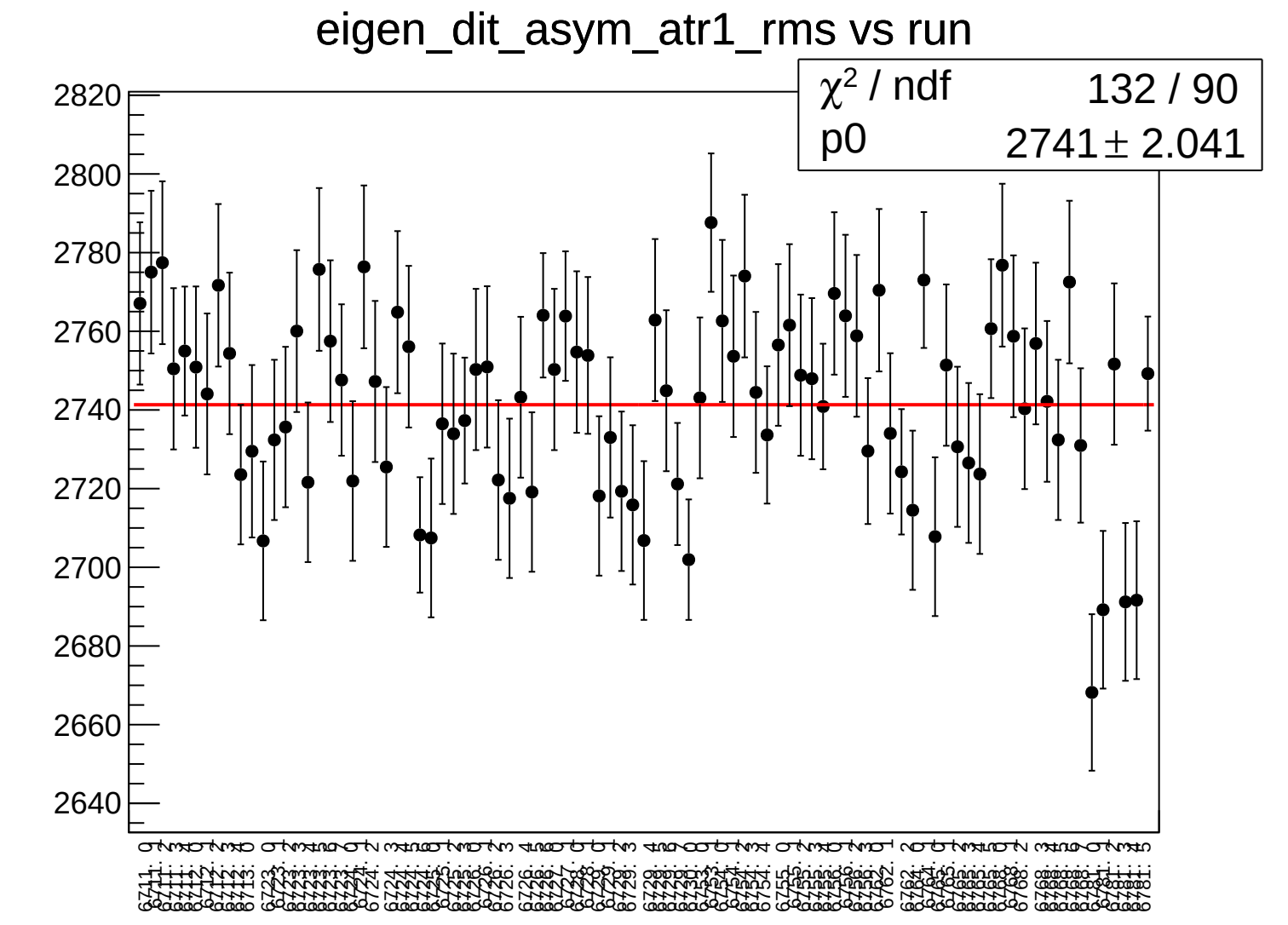

dit_asym_atr1_rms vs run
χ² / ndf 132 / 90
p0 2741 ± 2.041
2820
2800
2780
2760
2740
2720
2700
2680
2660
2640

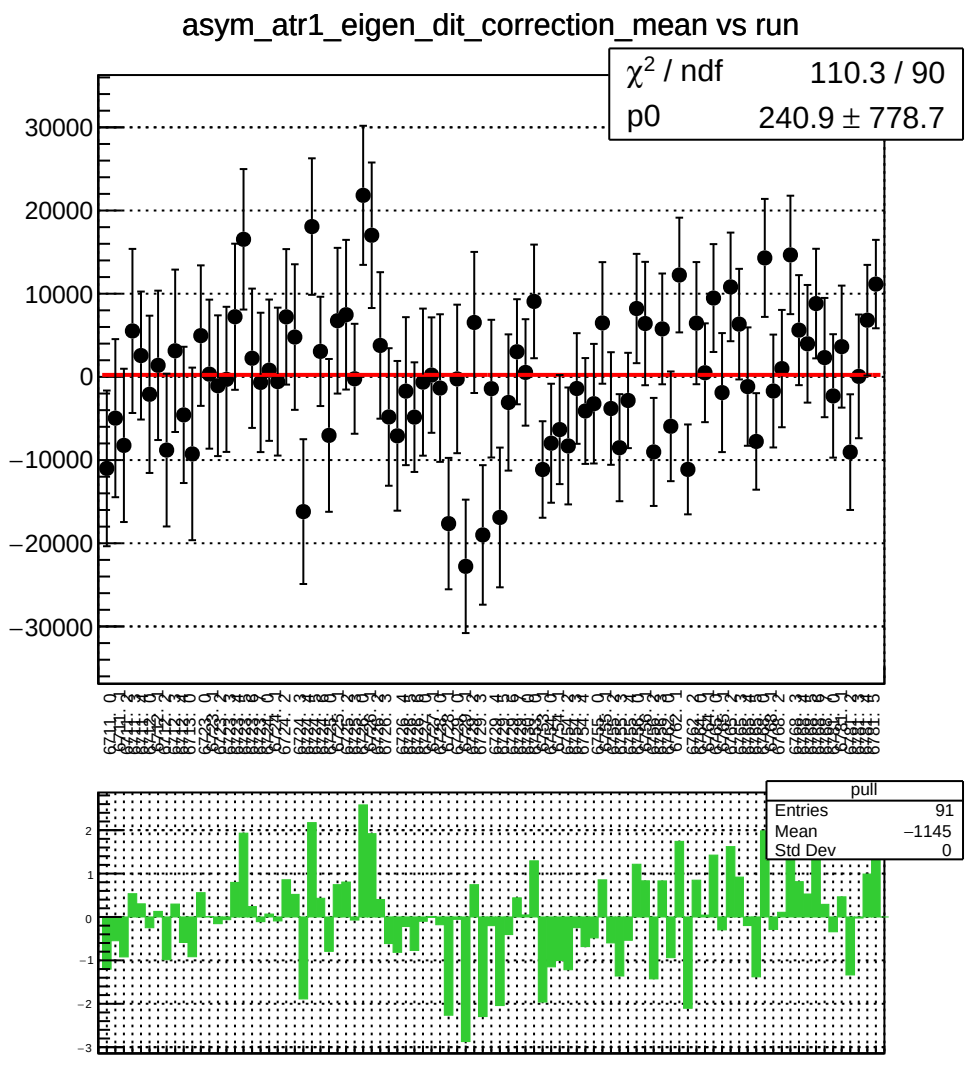

asym_atr1_dit_correction_mean vs run
χ² / ndf 110.3 / 90
p0 240.9 ± 778.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −1145
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.002852
Std Dev 1.101
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

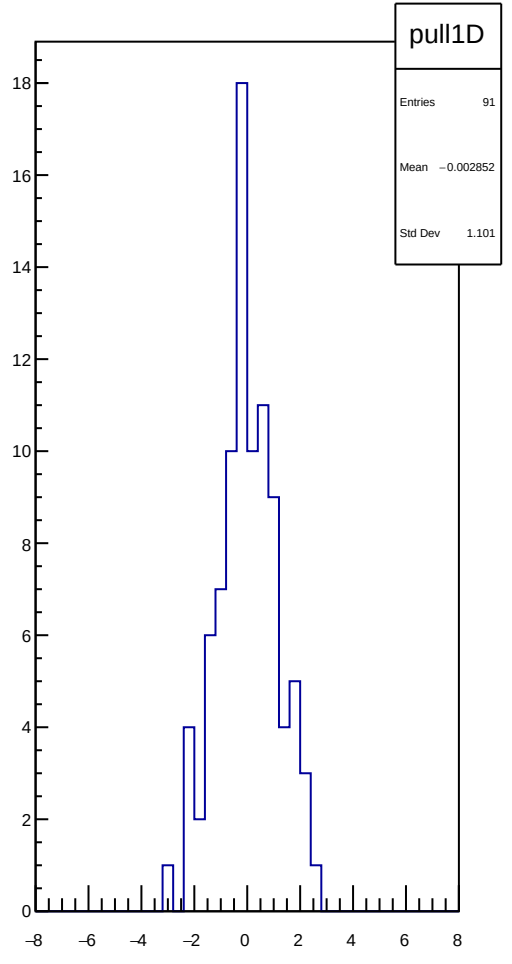

asym_atr1_dit_correction_rms vs run
χ² / ndf 2.722e+04 / 90
p0 734 ± 0.5506
950
900
850
800
750
700
650
600

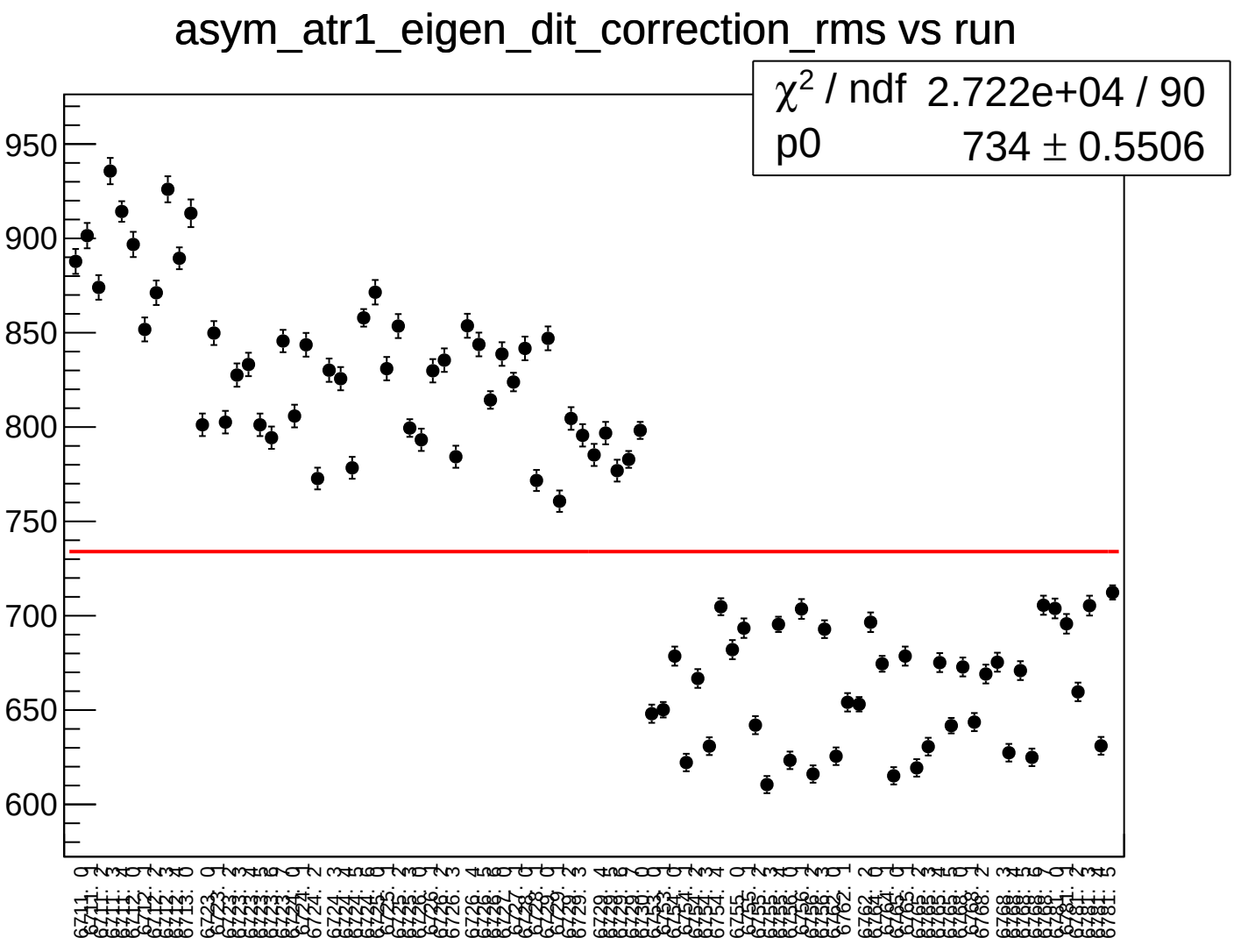

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 91.92 / 90
p0 −8116 ± 2886
100
50
0
−50
−100
pull
Entries 91
Mean 198.4
Std Dev 0
2
1
0
−1
−2

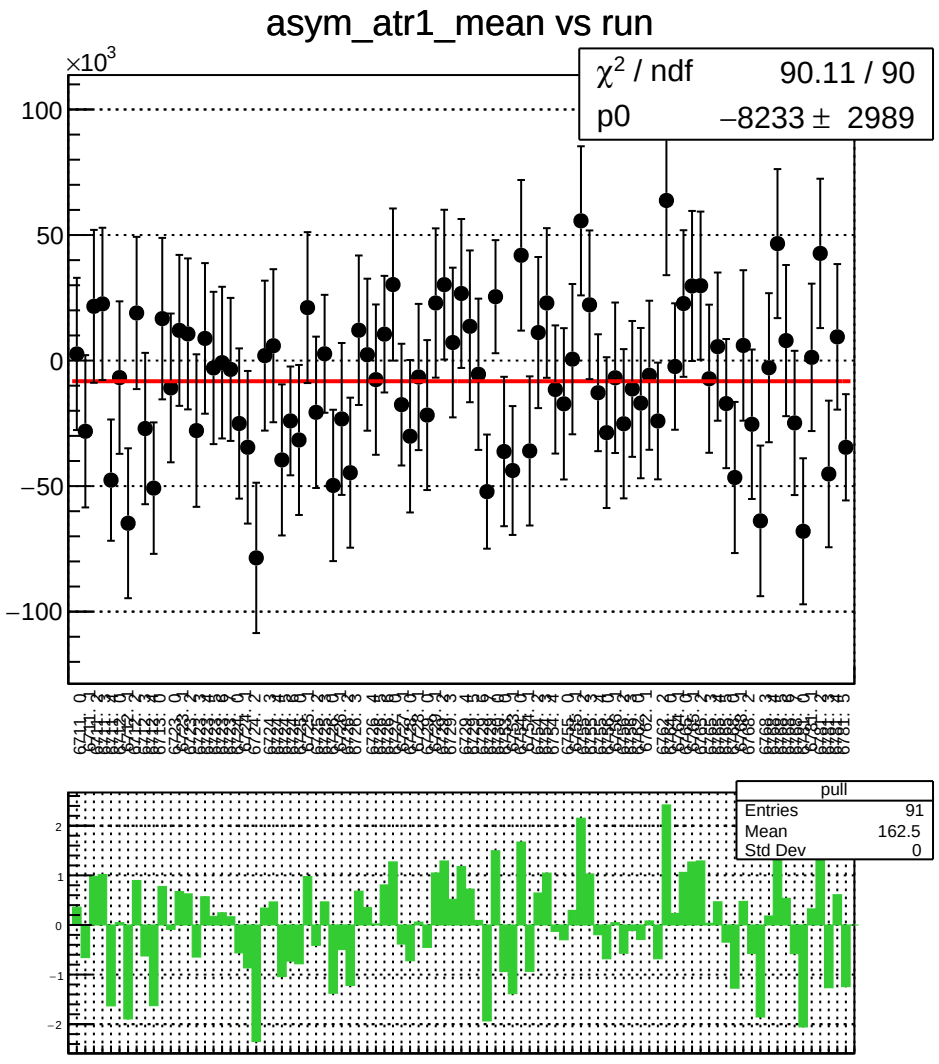

pull1D
Entries 91
Mean 0.02154
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

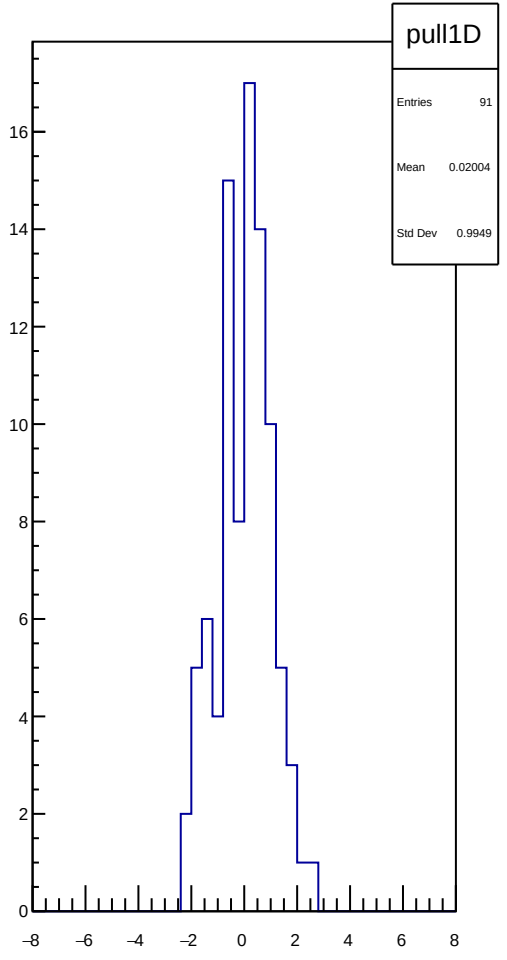

eigen_dit_asym_atr1_rms vs run
χ² / ndf 132 / 90
p0 2741 ± 2.041
2820
2800
2780
2760
2740
2720
2700
2680
2660
2640

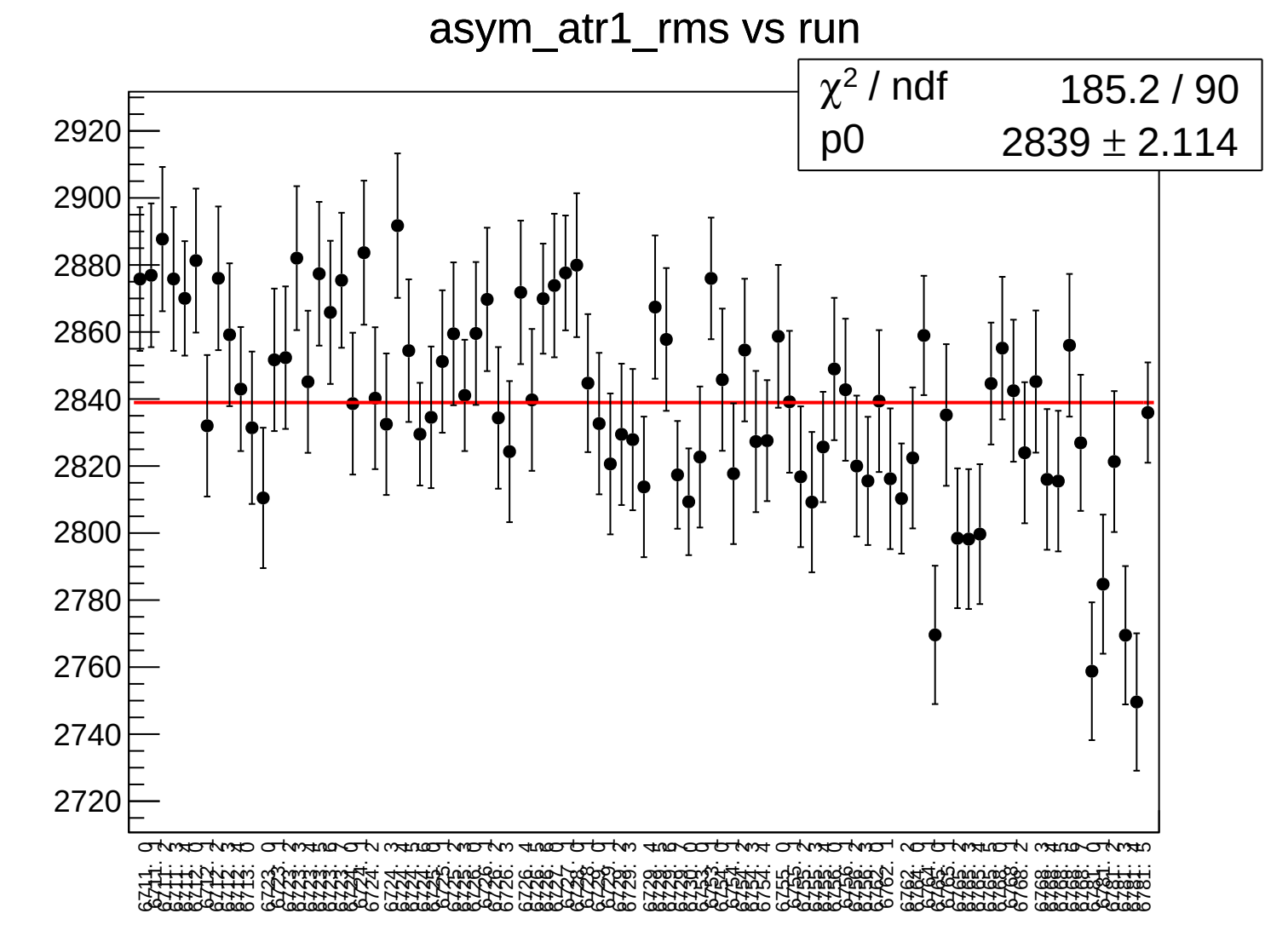

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 110.3 / 90
p0 240.9 ± 778.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −1145
Std Dev 0
2
1
0
−1
−2
−3

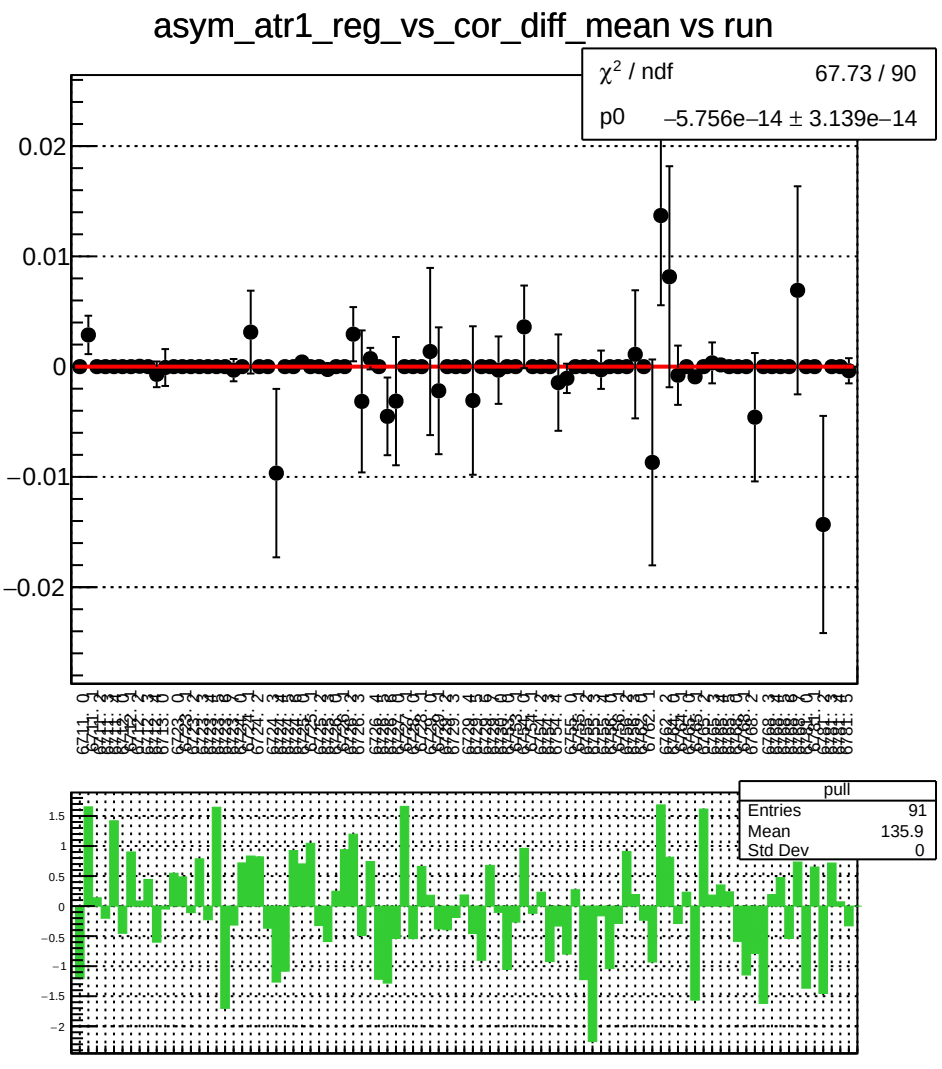

pull1D
Entries 91
Mean −0.002852
Std Dev 1.101
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

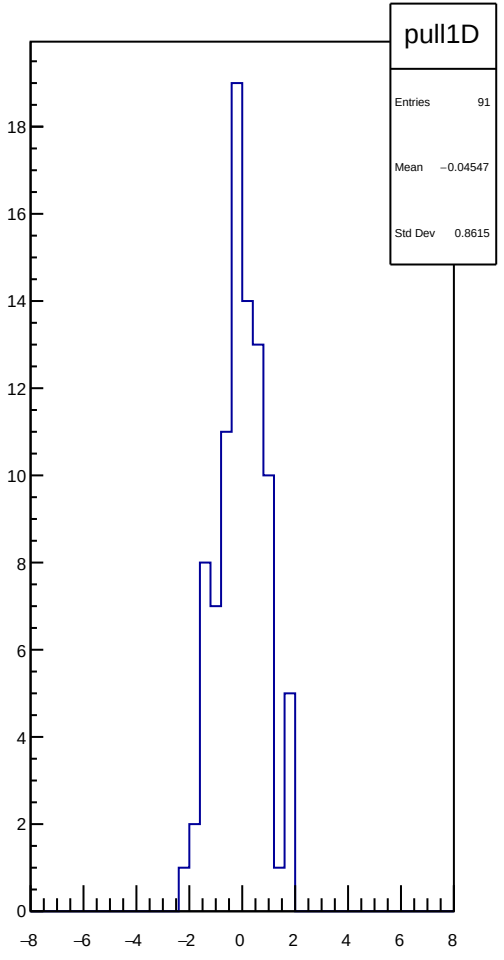

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 2.722e+04 / 90
p0 734 ± 0.5506
950
900
850
800
750
700
650
600

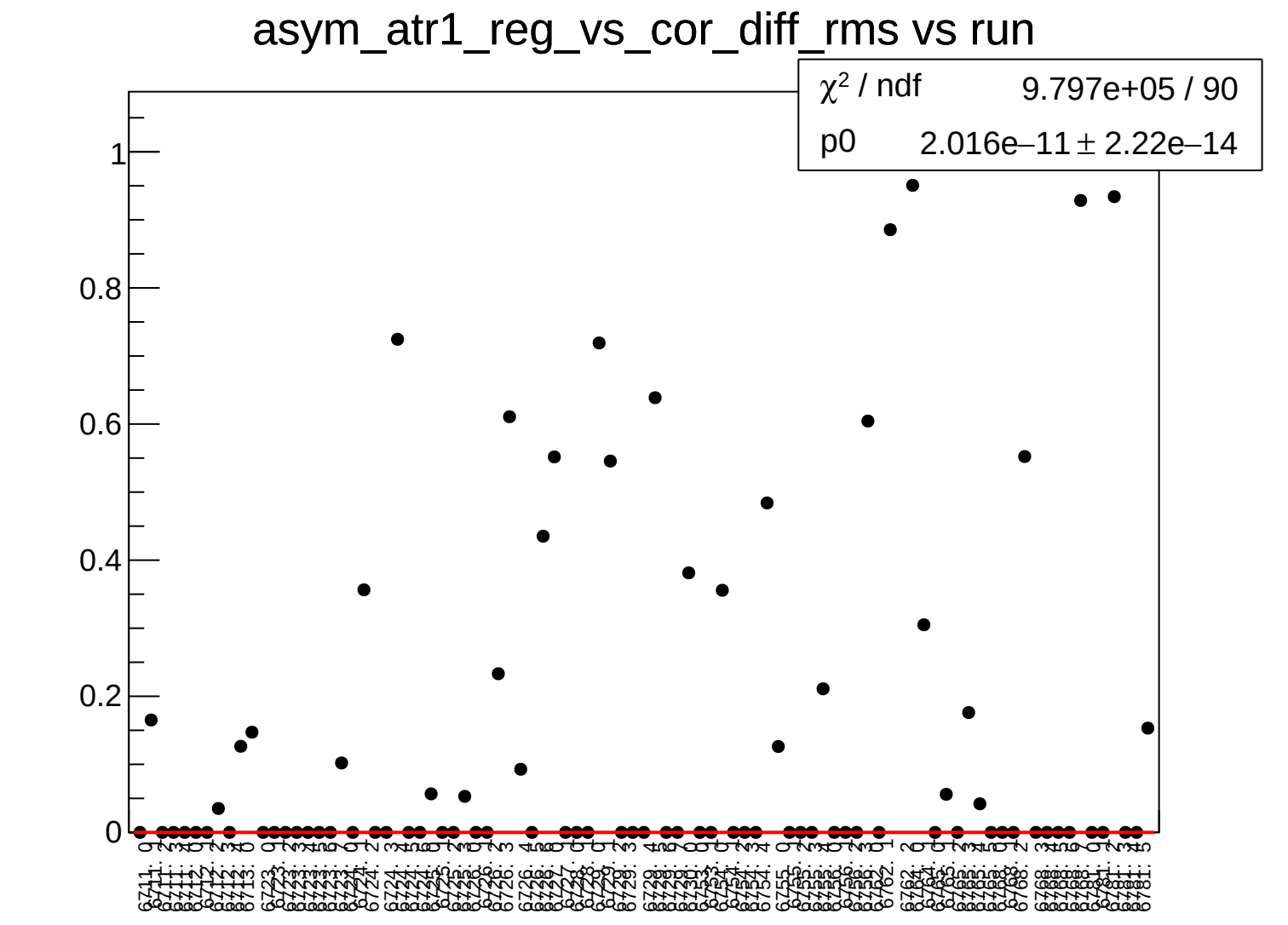

asym_atr1_mean vs run
×10^3
χ² / ndf 90.11 / 90
p0 −8233 ± 2989
100
50
0
−50
−100
pull
Entries 91
Mean 162.5
Std Dev 0
2
1
0
−1
−2

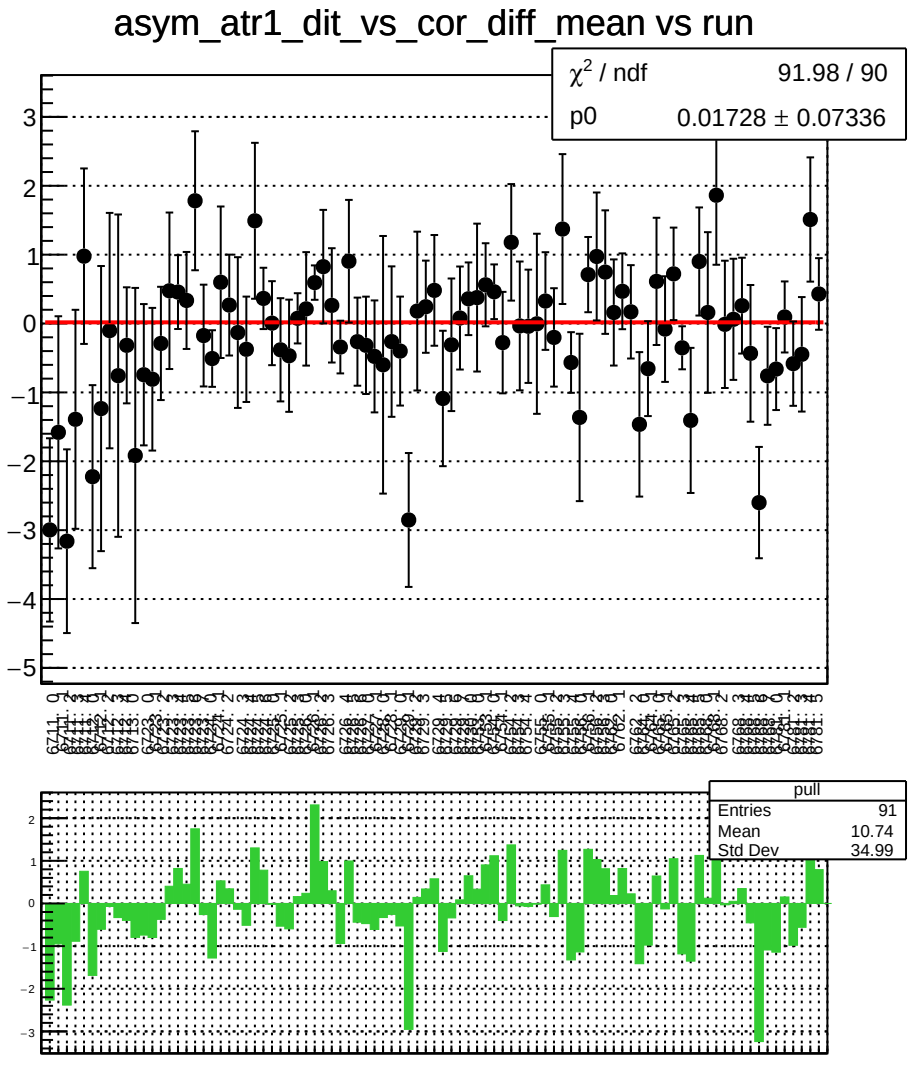

pull1D
Entries 91
Mean 0.02004
Std Dev 0.9949
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

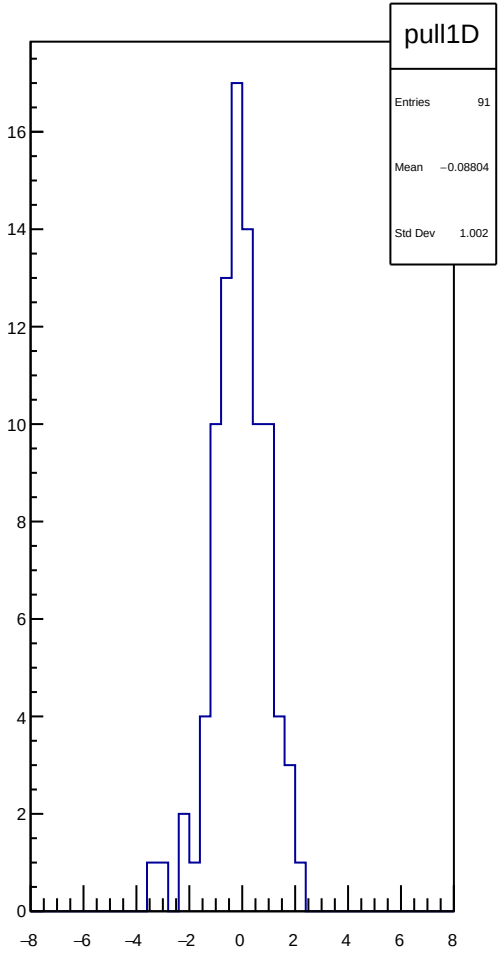

asym_atr1_rms vs run
χ^2 / ndf 185.2 / 90
p0 2839 ± 2.114
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740
2720

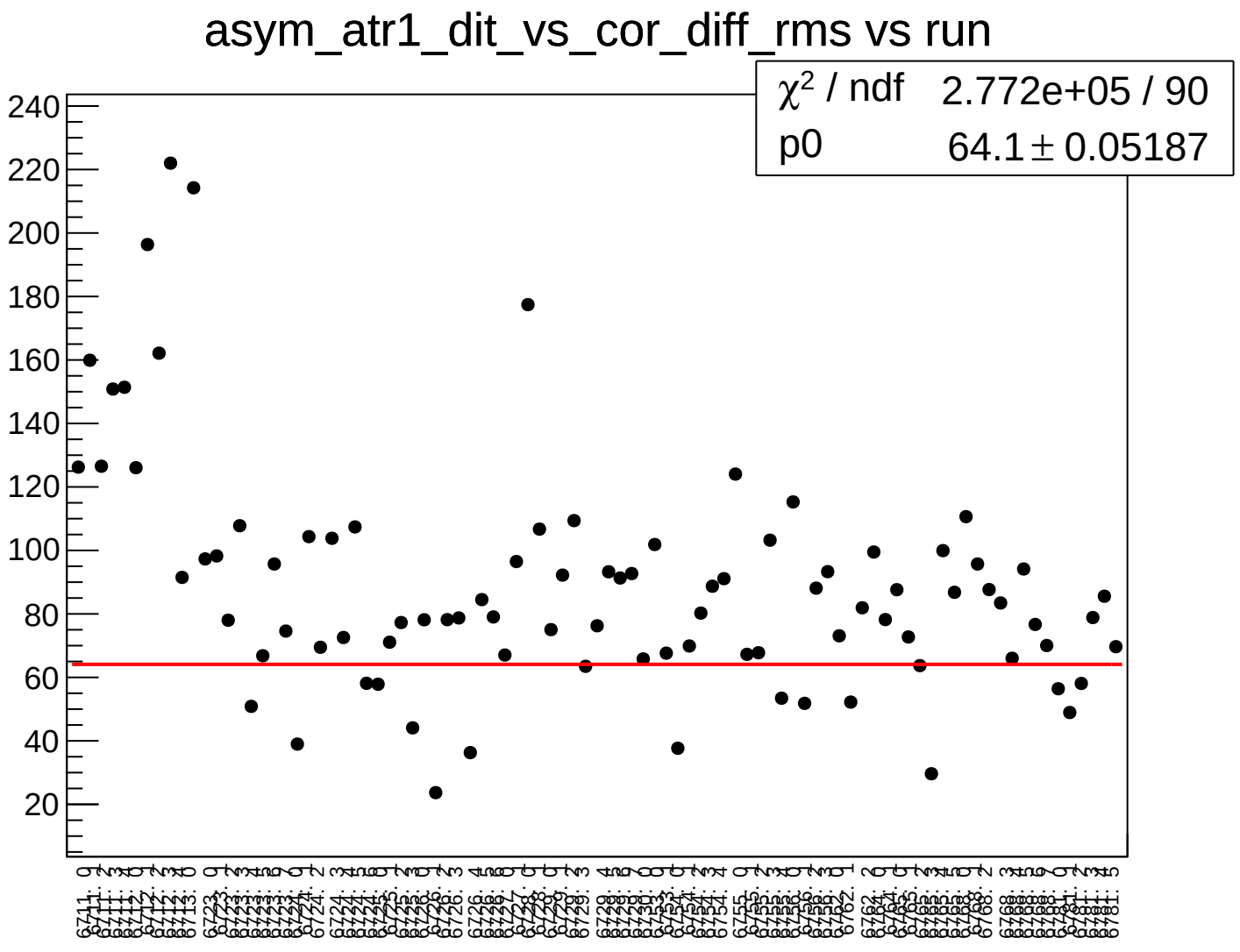

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 67.73 / 90
p0 −5.756e−14 ± 3.139e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 91
Mean 135.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

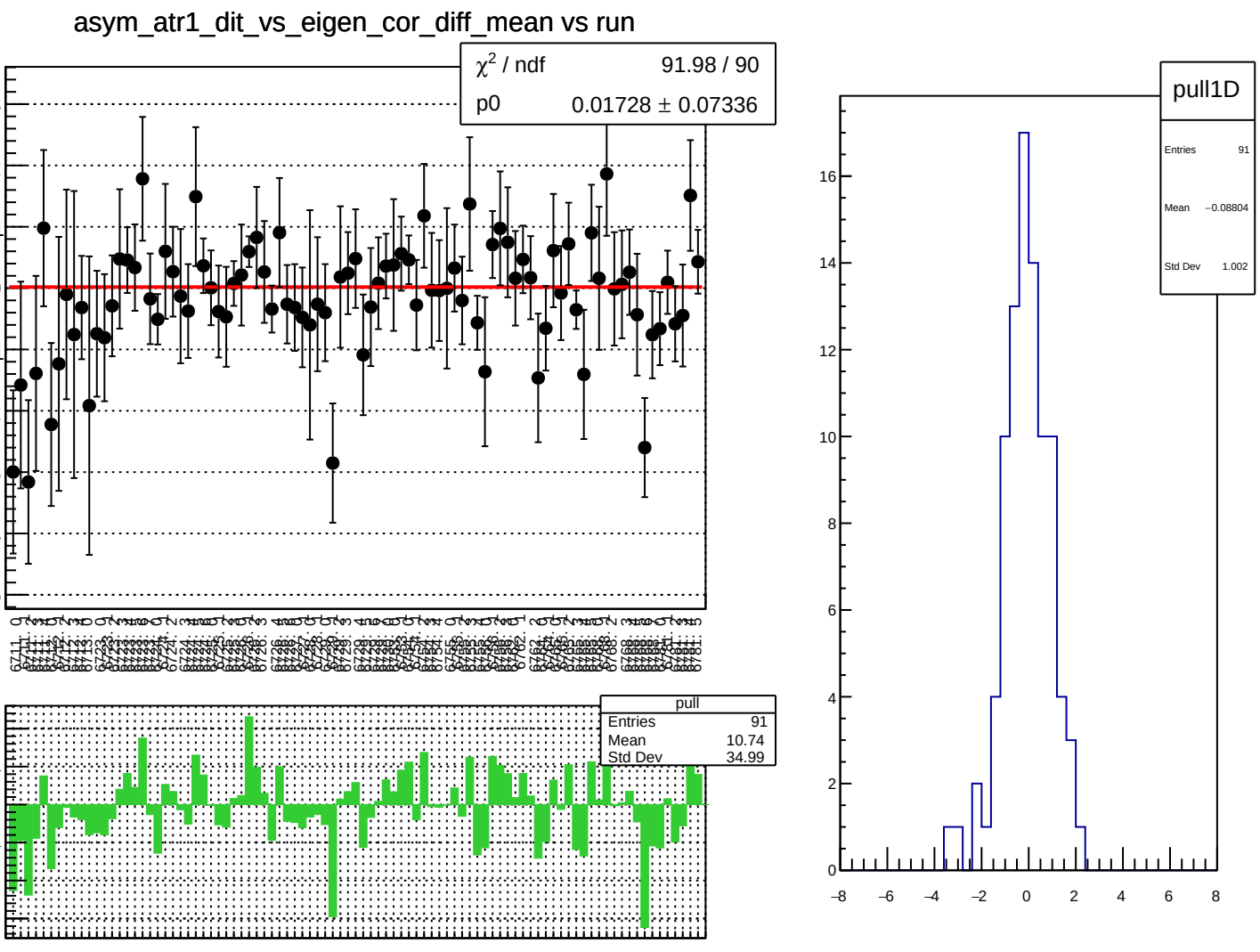

pull1D
Entries 91
Mean −0.04547
Std Dev 0.8615
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

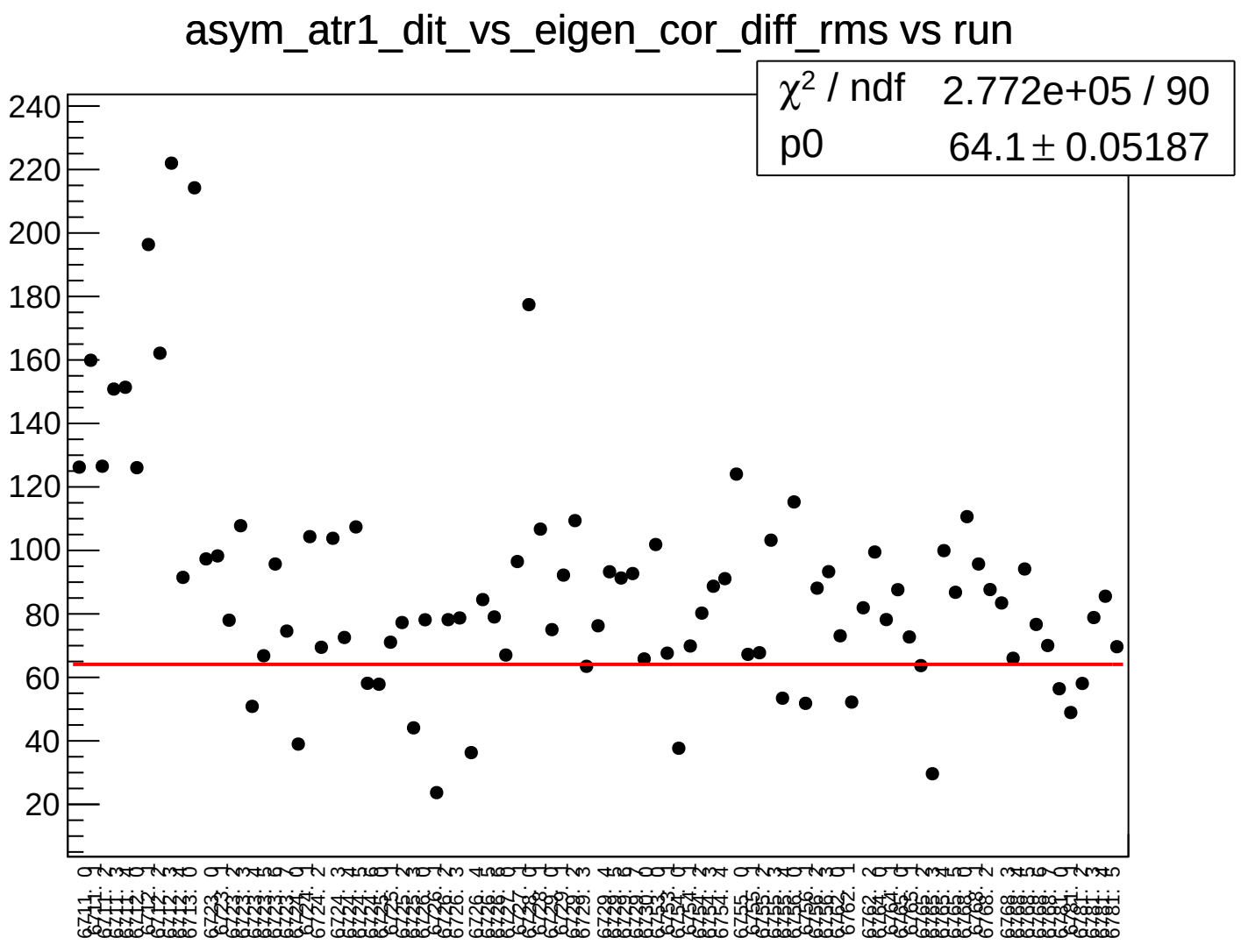

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.797e+05 / 90
p0 2.016e−11 ± 2.22e−14
1
0.8
0.6
0.4
0.2
0

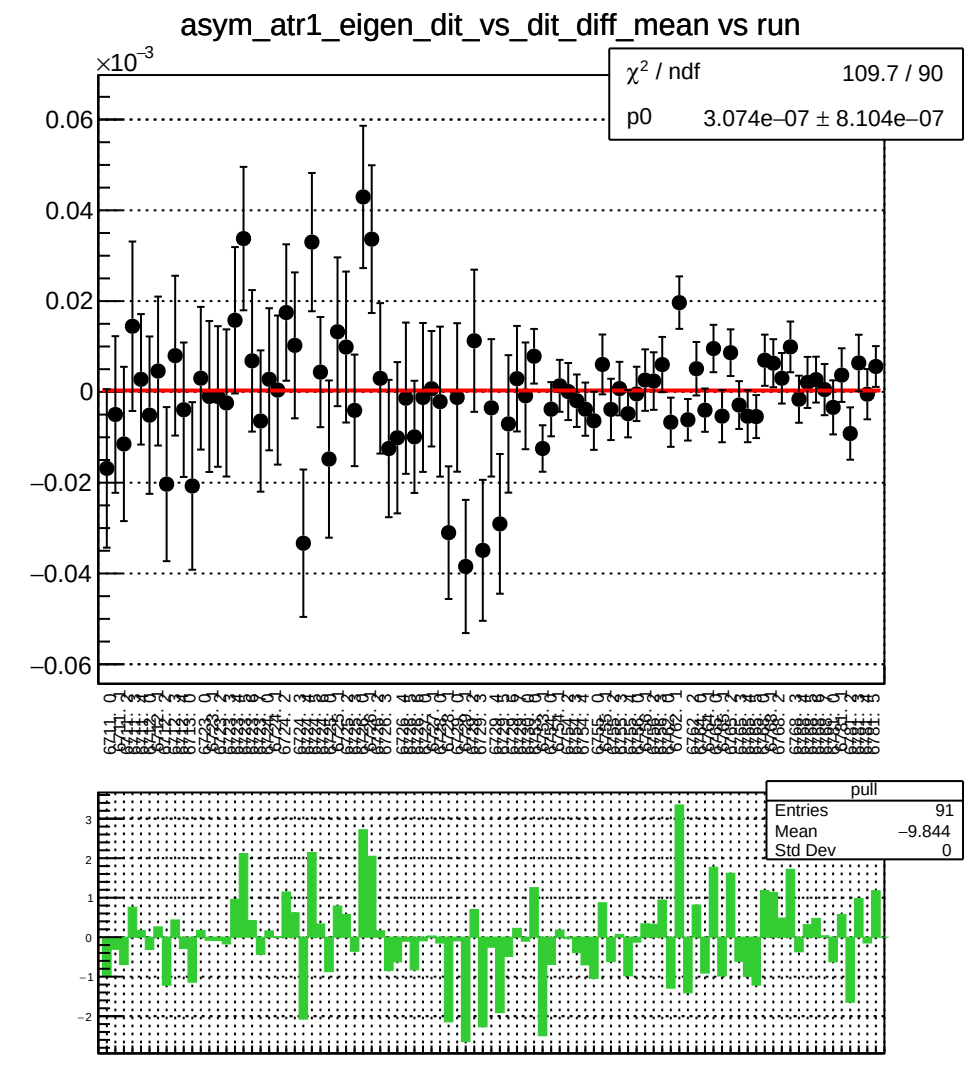

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 91.98 / 90
p0 0.01728 ± 0.07336
pull
Entries 91
Mean 10.74
Std Dev 34.99

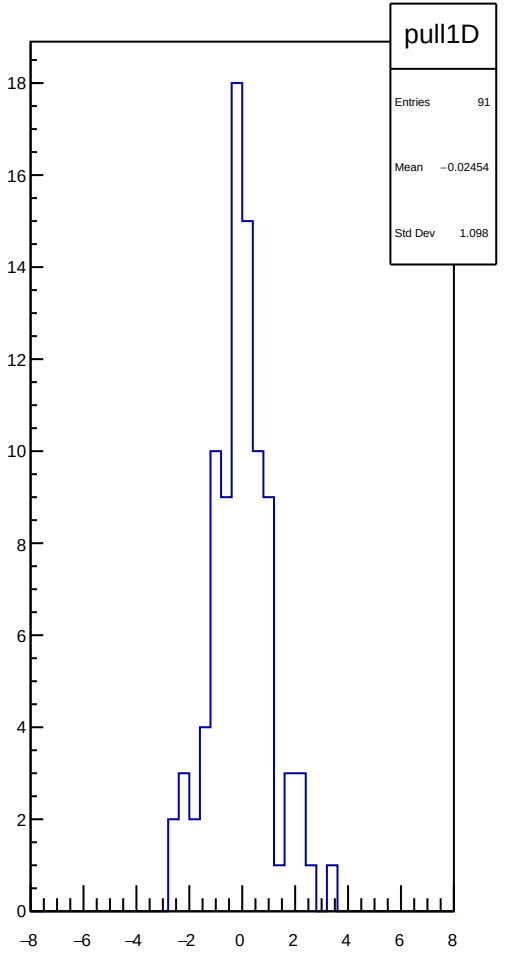

pull1D
Entries 91
Mean −0.08804
Std Dev 1.002

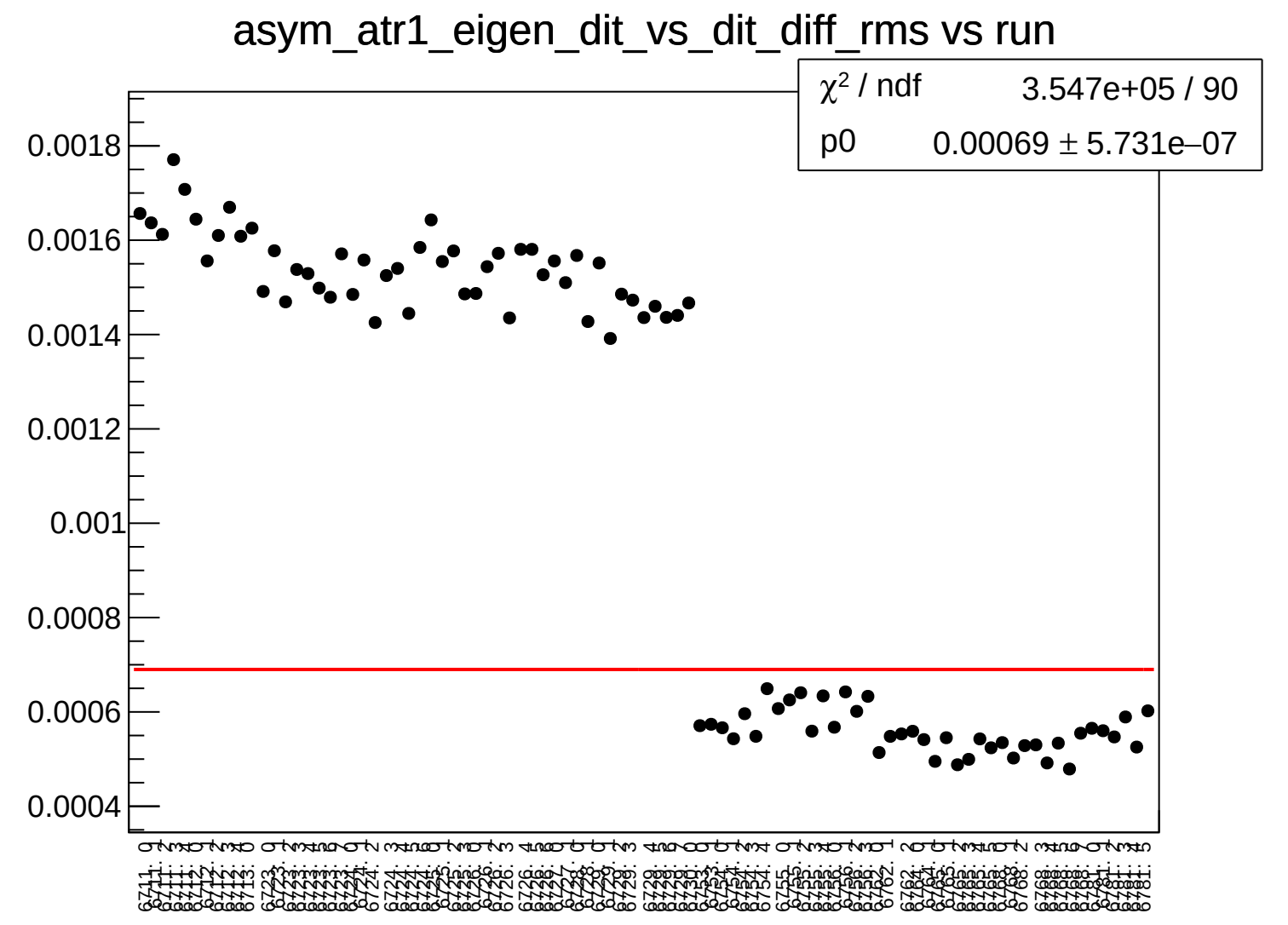

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.772e+05 / 90
p0 64.1 ± 0.05187
240
220
200
180
160
140
120
100
80
60
40
20

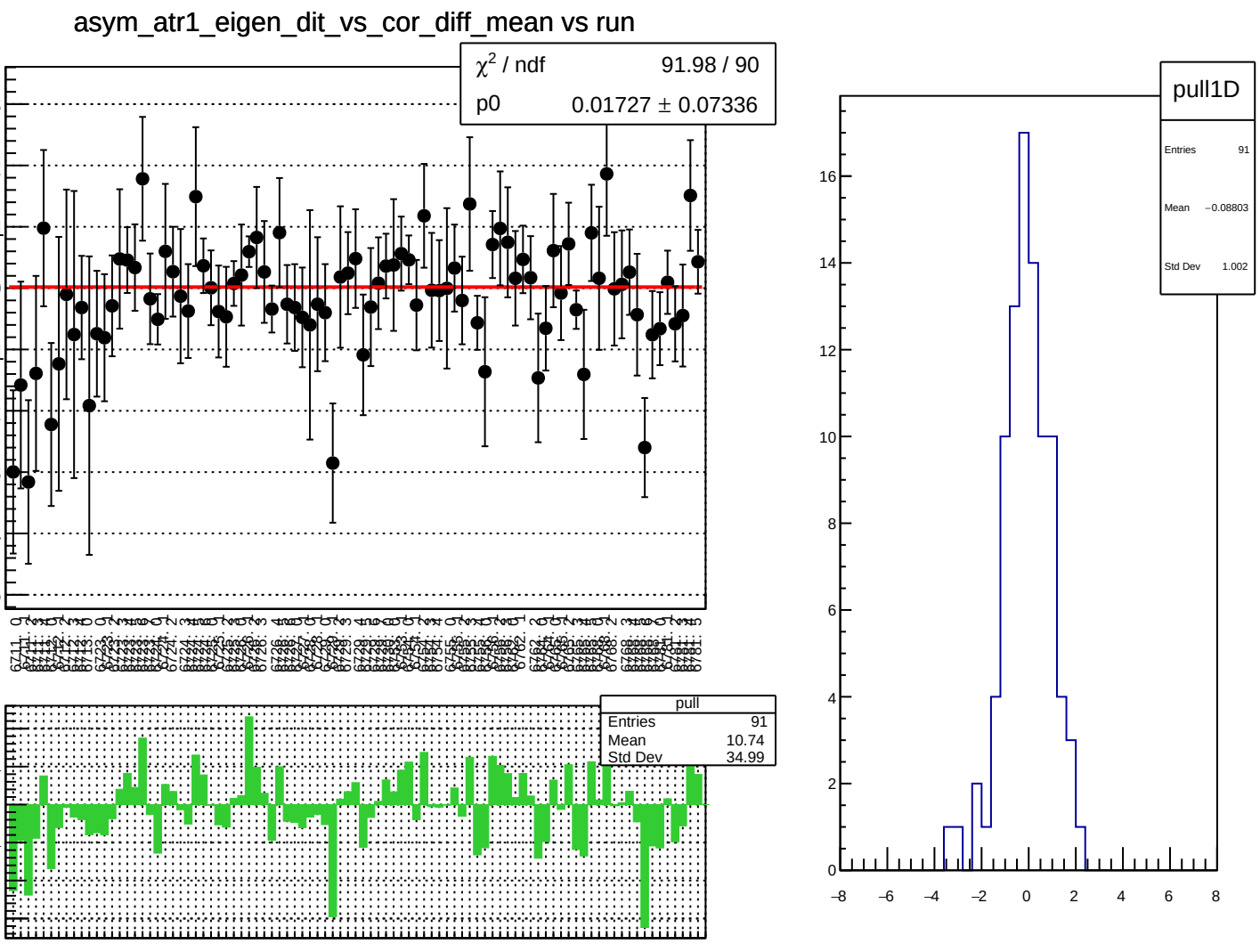

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.98 / 90
p0 0.01728 ± 0.07336
pull
Entries 91
Mean 10.74
Std Dev 34.99
pull1D
Entries 91
Mean −0.08804
Std Dev 1.002

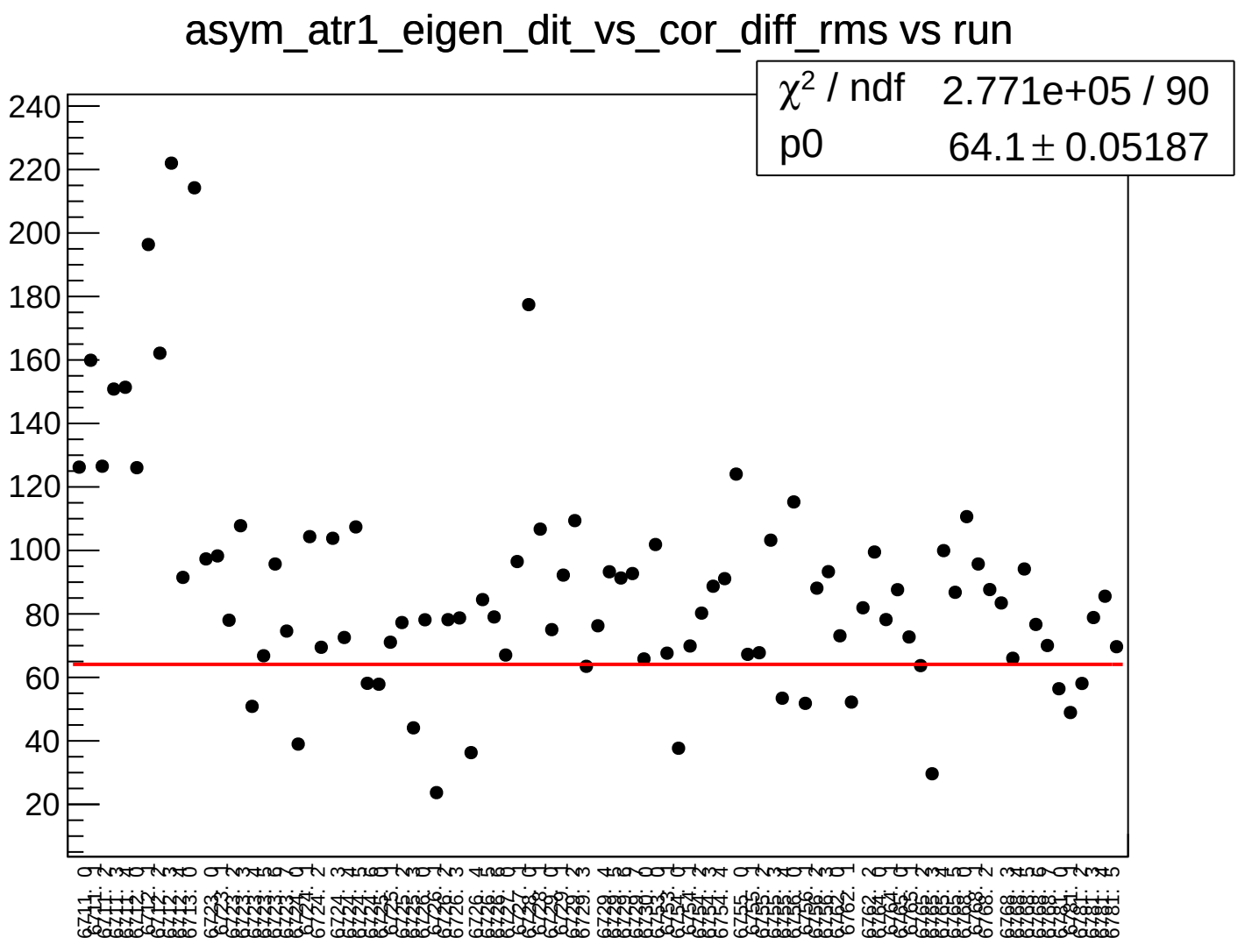

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.772e+05 / 90
p0 64.1 ± 0.05187
240
220
200
180
160
140
120
100
80
60
40
20

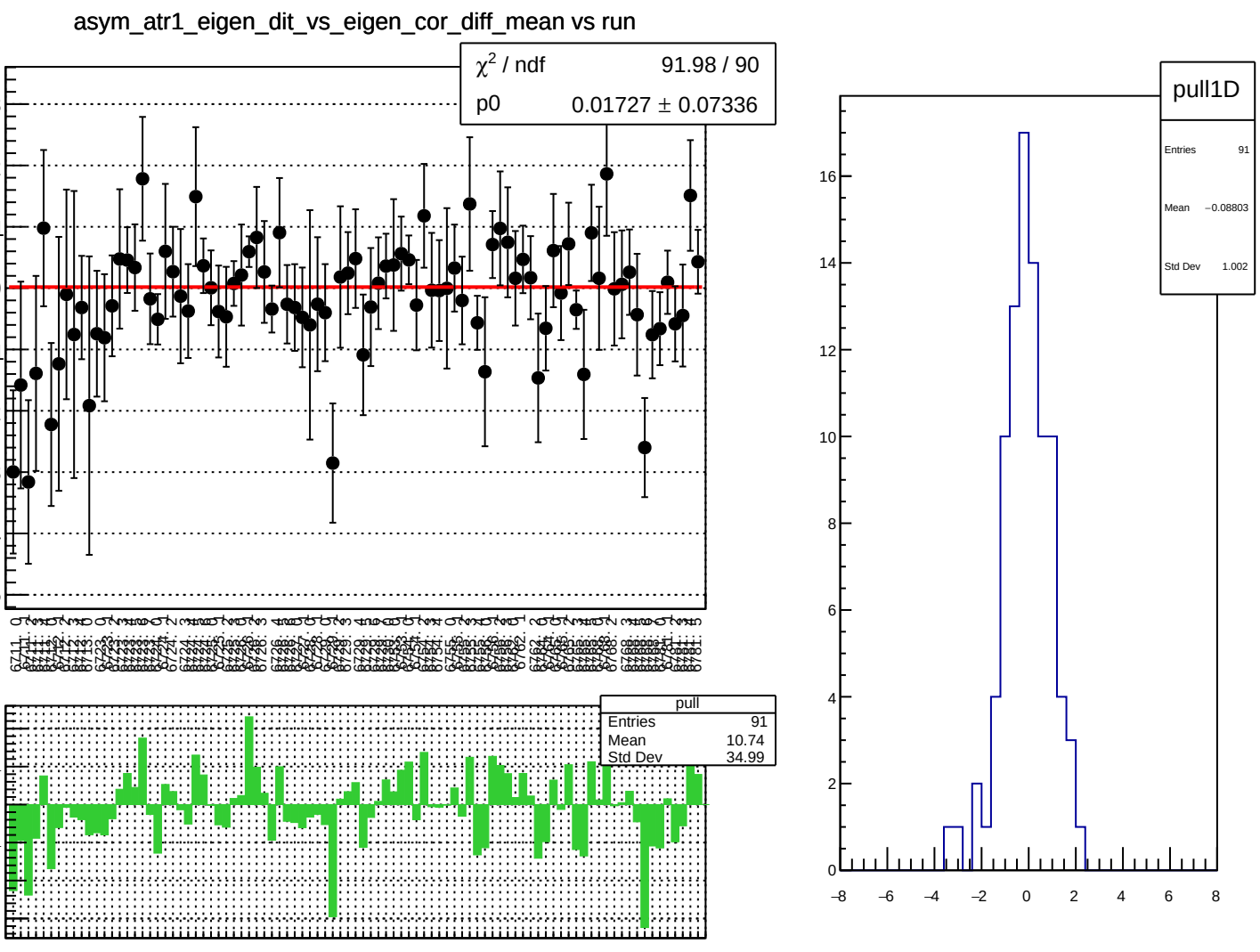

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.7 / 90
p0 3.074e−07 ± 8.104e−07
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean −9.844
Std Dev 0
3
2
1
0
−1
−2

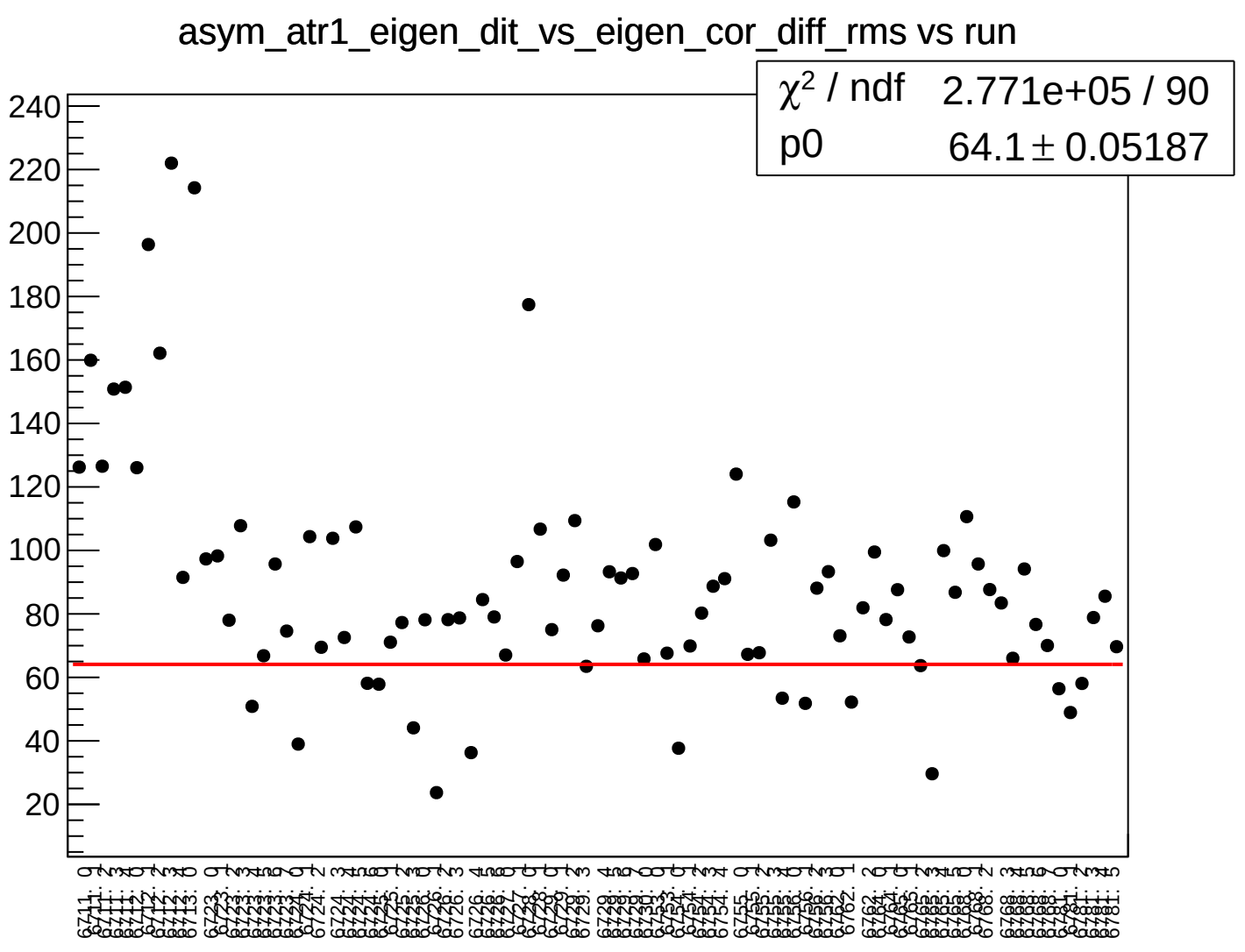

pull1D
Entries 91
Mean −0.02454
Std Dev 1.098
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

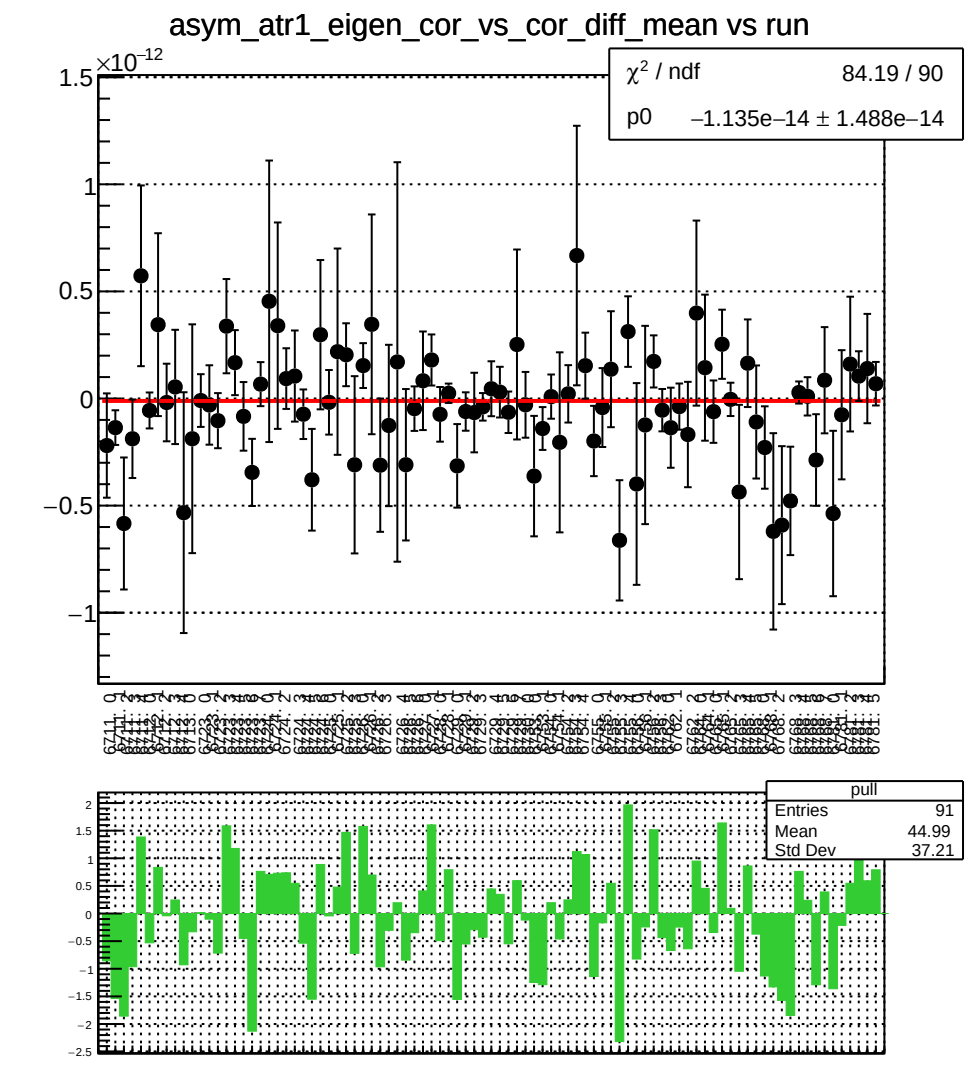

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.547e+05 / 90
p0 0.00069 ± 5.731e–07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

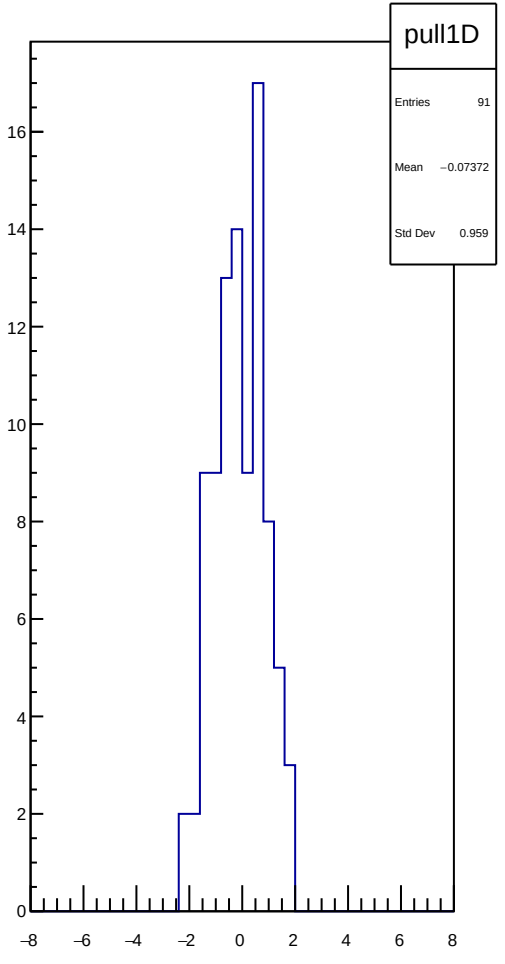

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.98 / 90
p0 0.01727 ± 0.07336
pull
Entries 91
Mean 10.74
Std Dev 34.99
pull1D
Entries 91
Mean −0.08803
Std Dev 1.002


asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.771e+05 / 90
p0 64.1 ± 0.05187
240
220
200
180
160
140
120
100
80
60
40
20

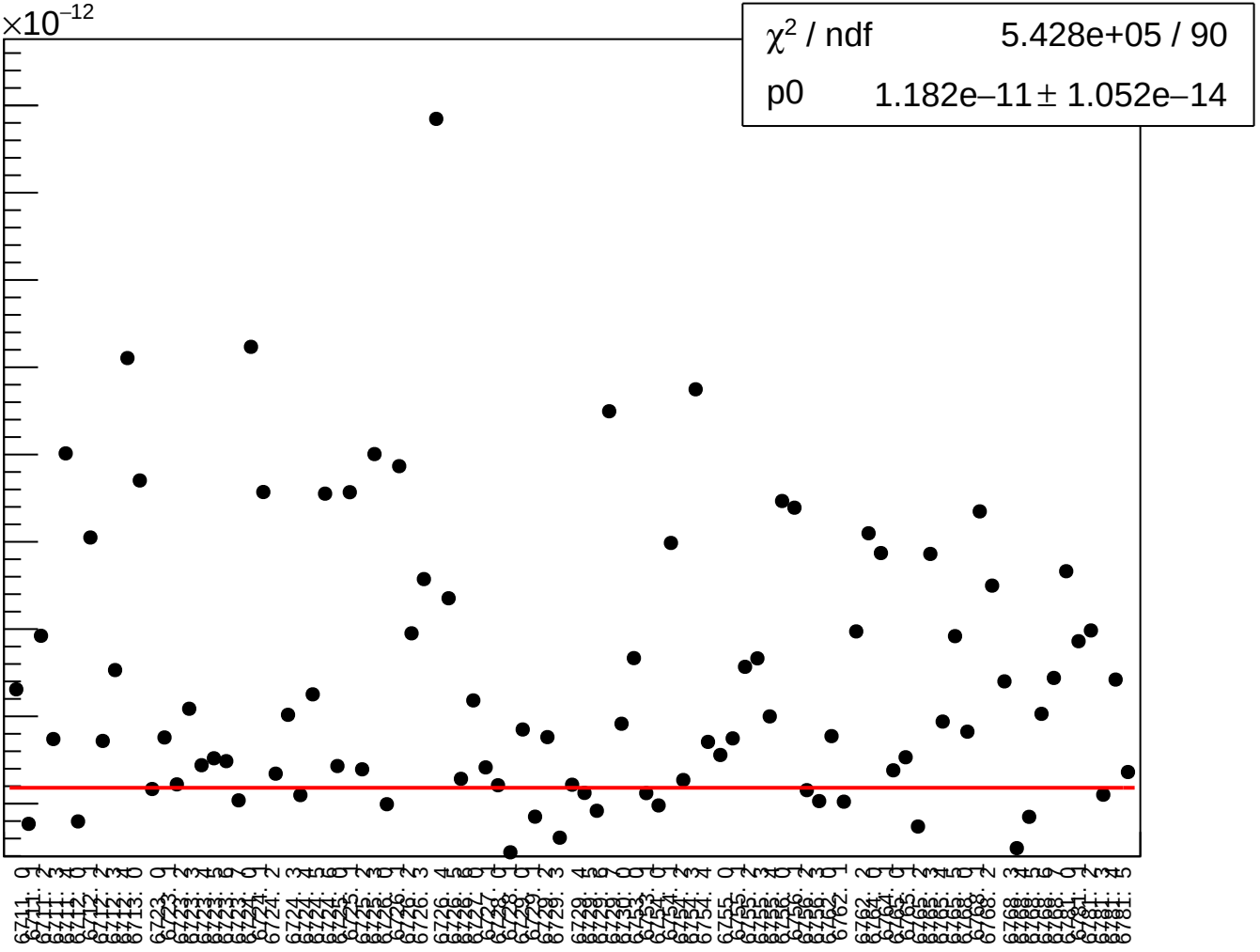

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.98 / 90
p0 0.01727 ± 0.07336
pull
Entries 91
Mean 10.74
Std Dev 34.99
pull1D
Entries 91
Mean −0.08803
Std Dev 1.002

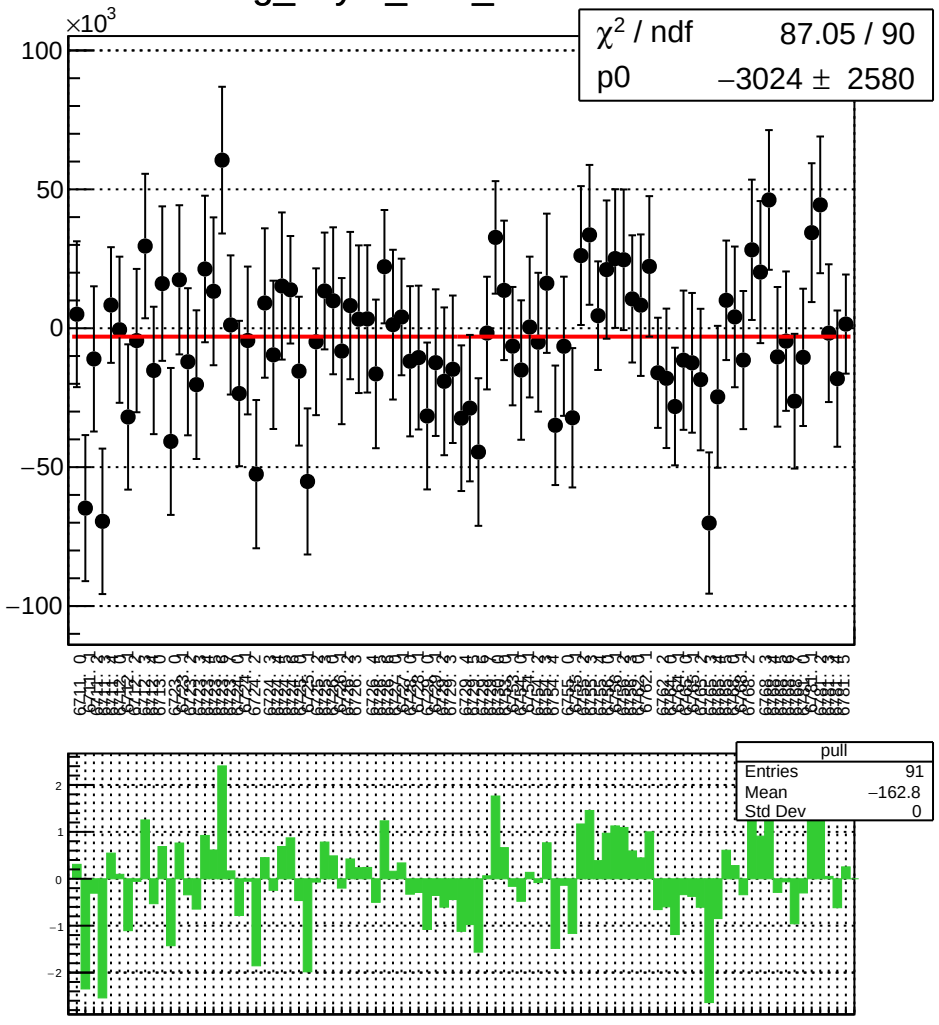

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.771e+05 / 90
p0 64.1 ± 0.05187
240
220
200
180
160
140
120
100
80
60
40
20

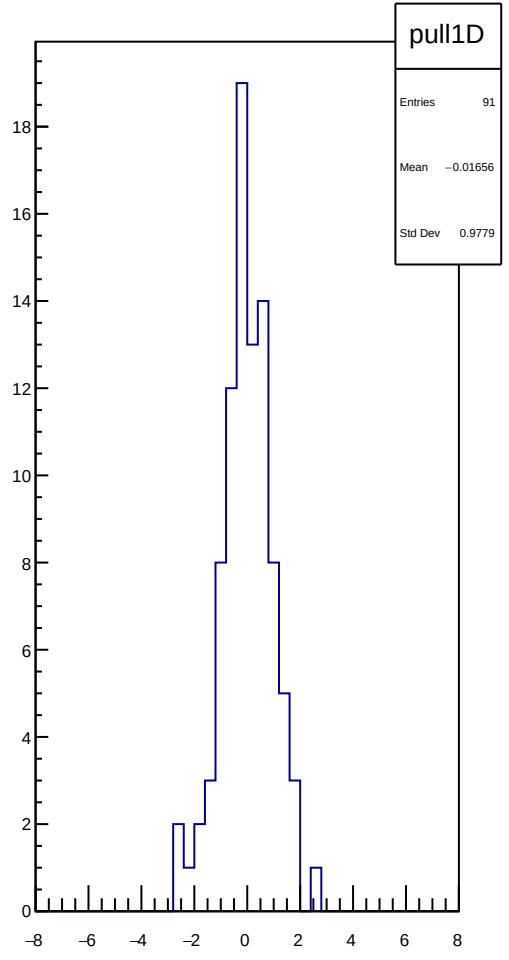

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.19 / 90
p0 −1.135e−14 ± 1.488e−14
pull
Entries 91
Mean 44.99
Std Dev 37.21

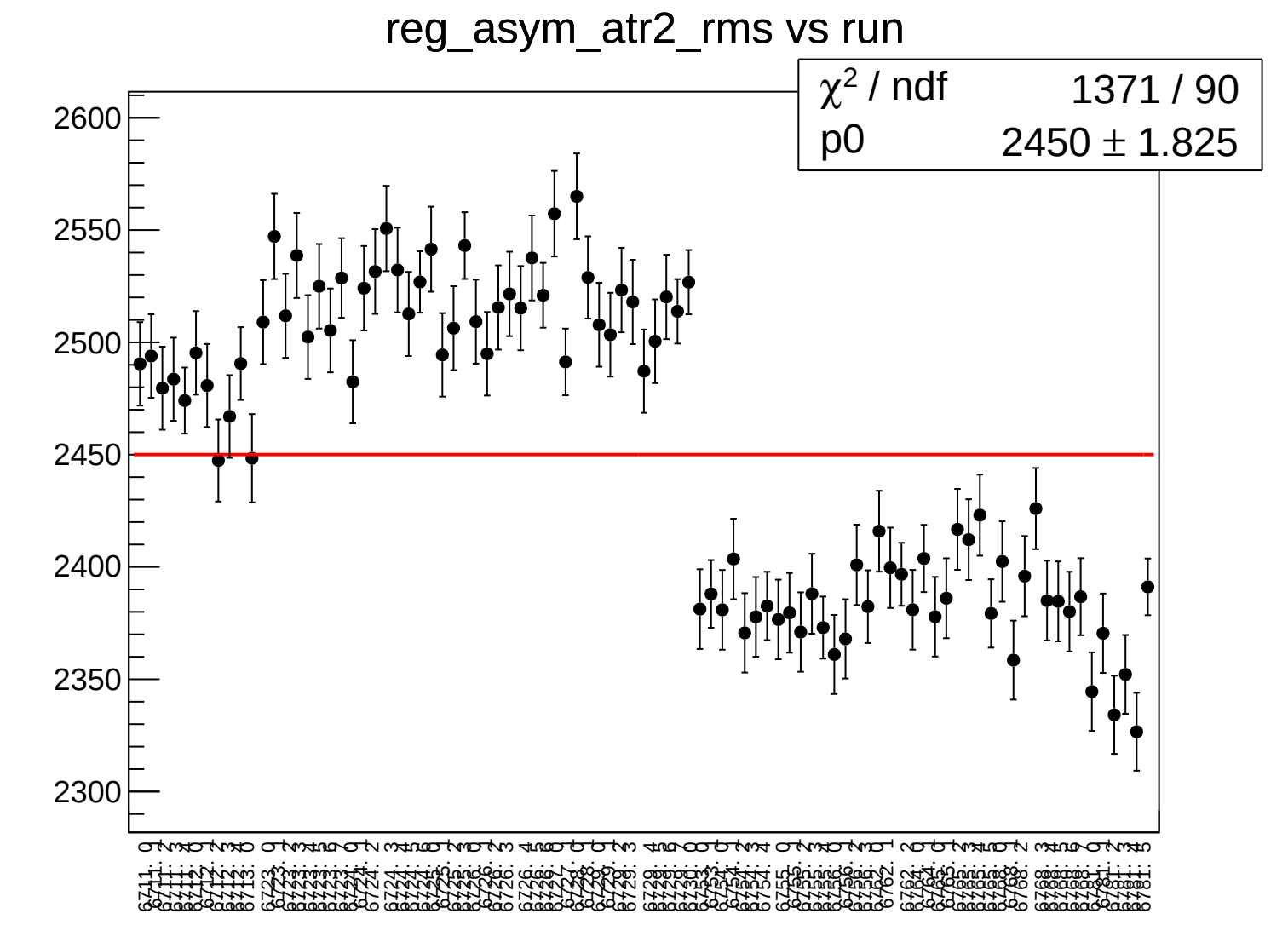

pull1D
Entries 91
Mean −0.07372
Std Dev 0.959

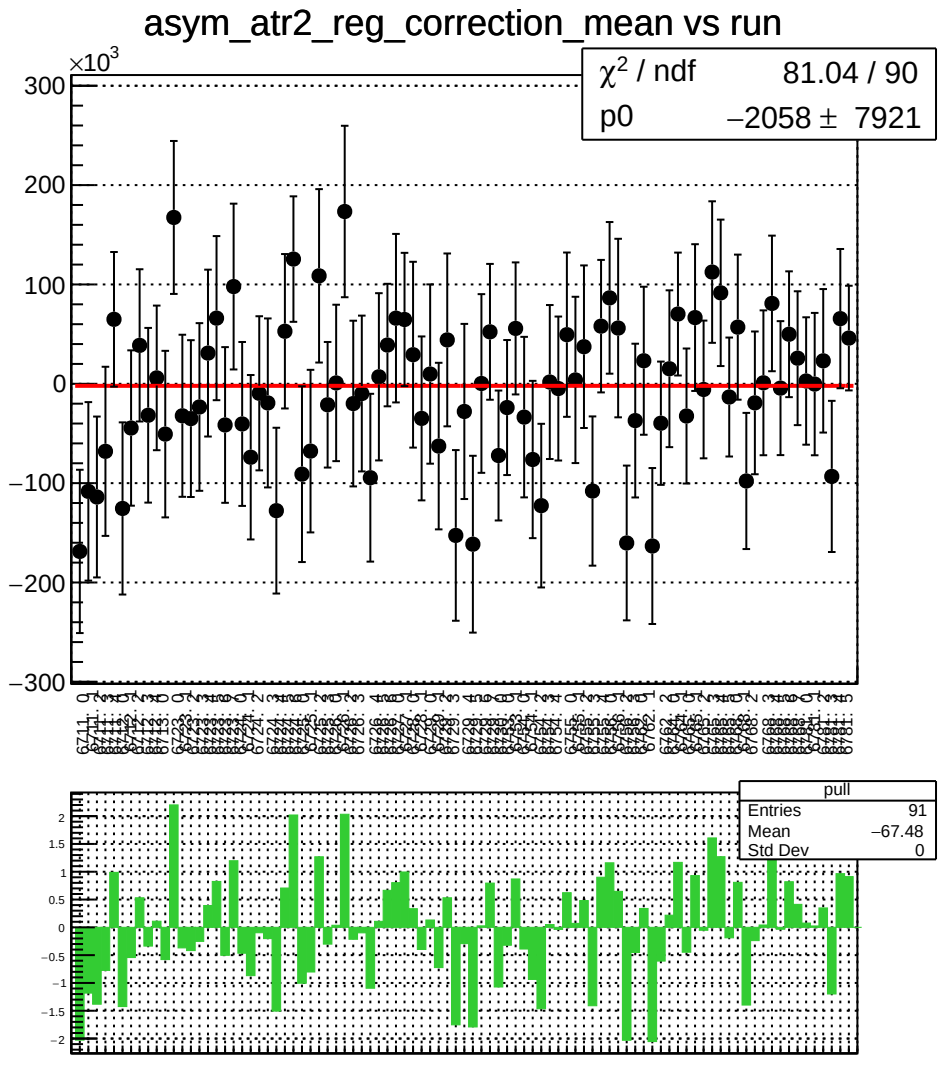
asym_atr1_eigen_cor_vs_cor_diff_rms vs run

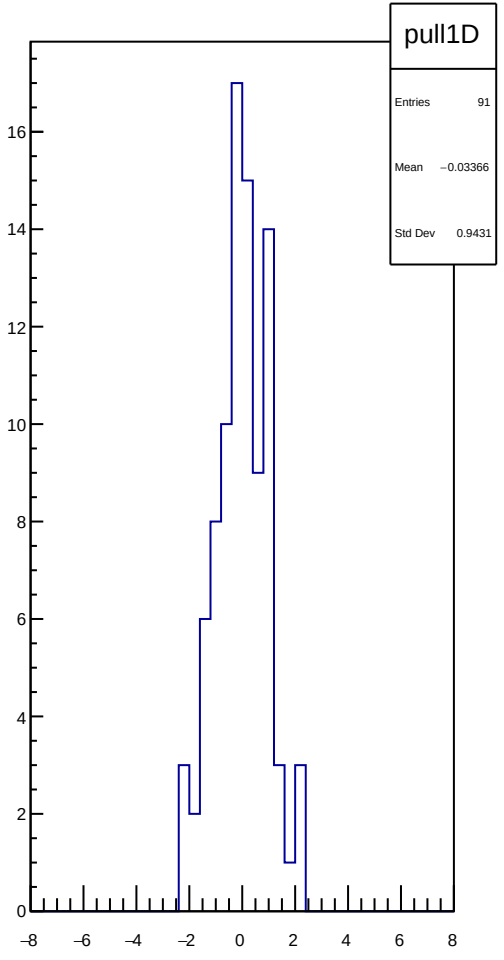


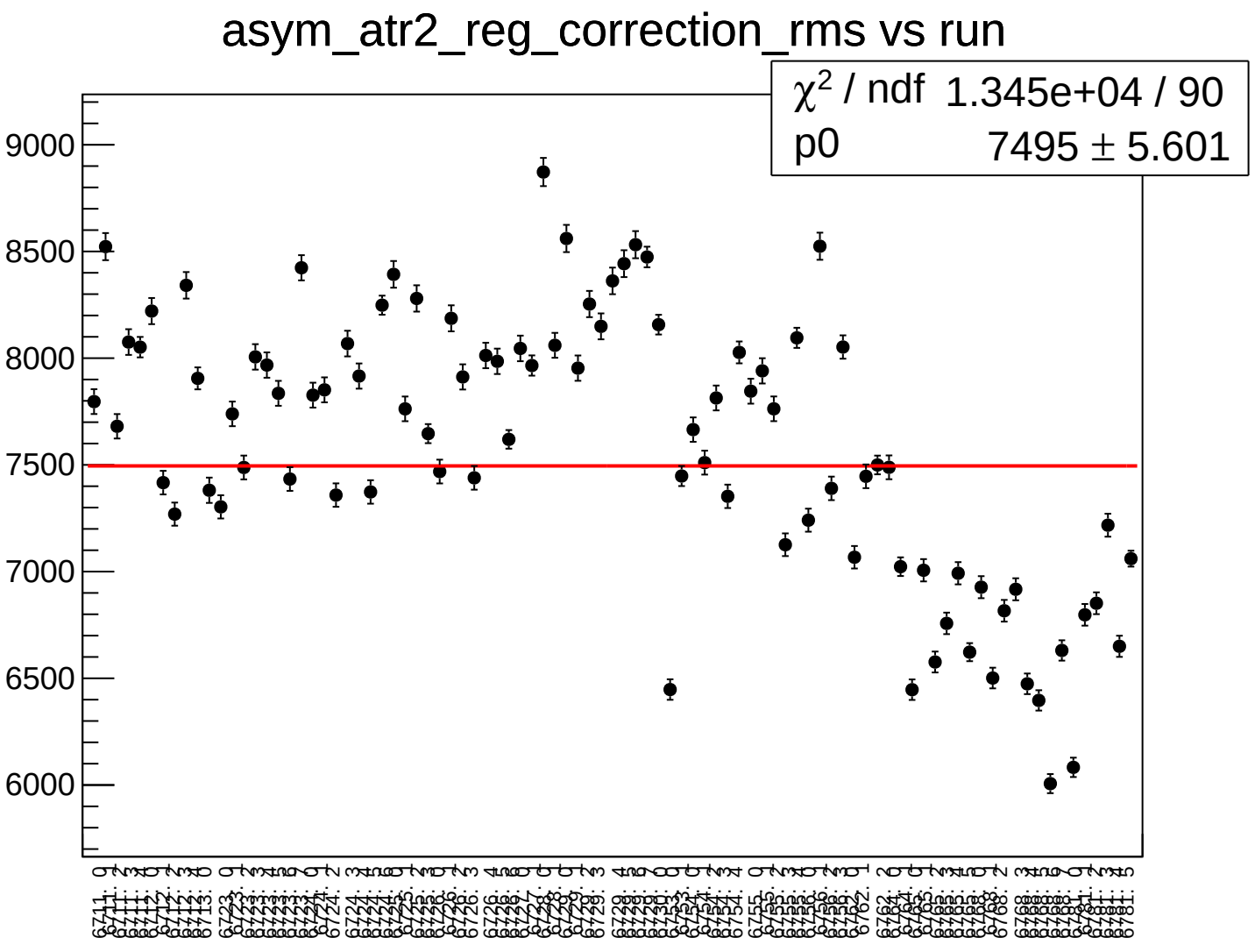

reg_asym_atr2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 87.05 / 90
p0 −3024 ± 2580
pull
Entries 91
Mean −162.8
Std Dev 0
2
1
0
−1
−2

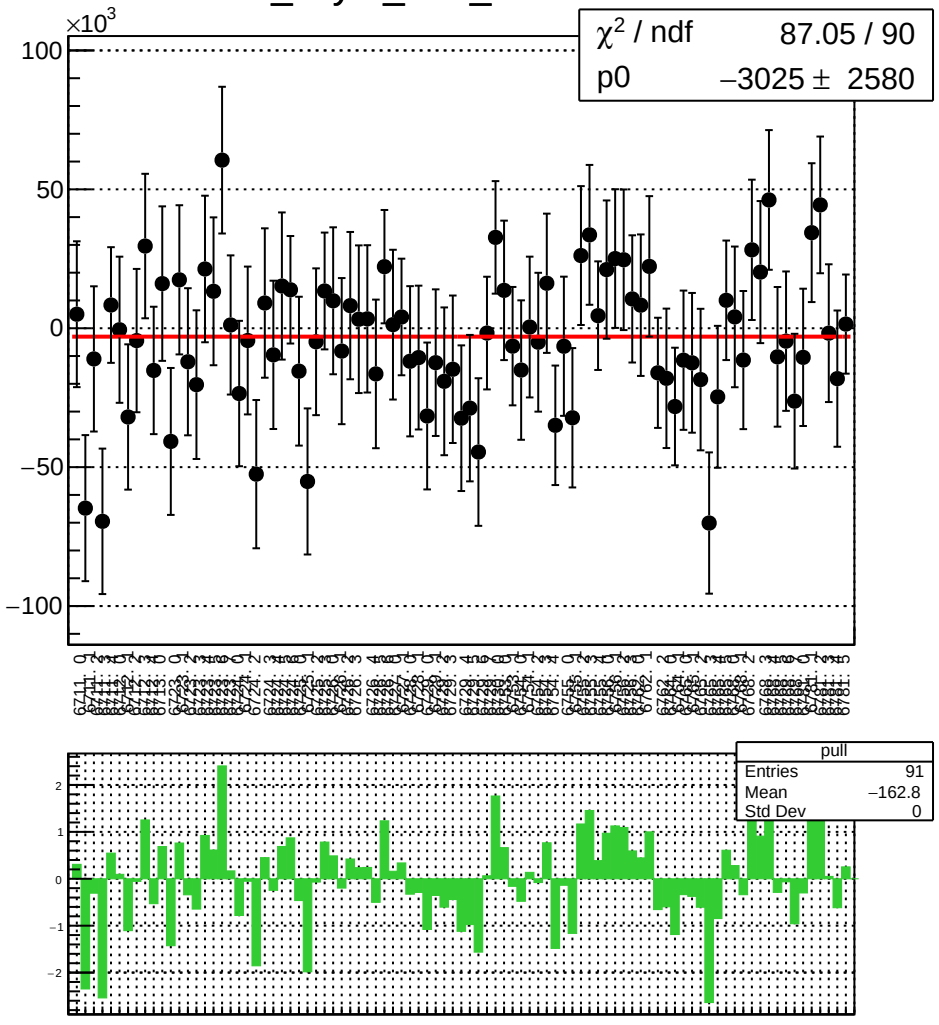

pull1D
Entries 91
Mean −0.01656
Std Dev 0.9779
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

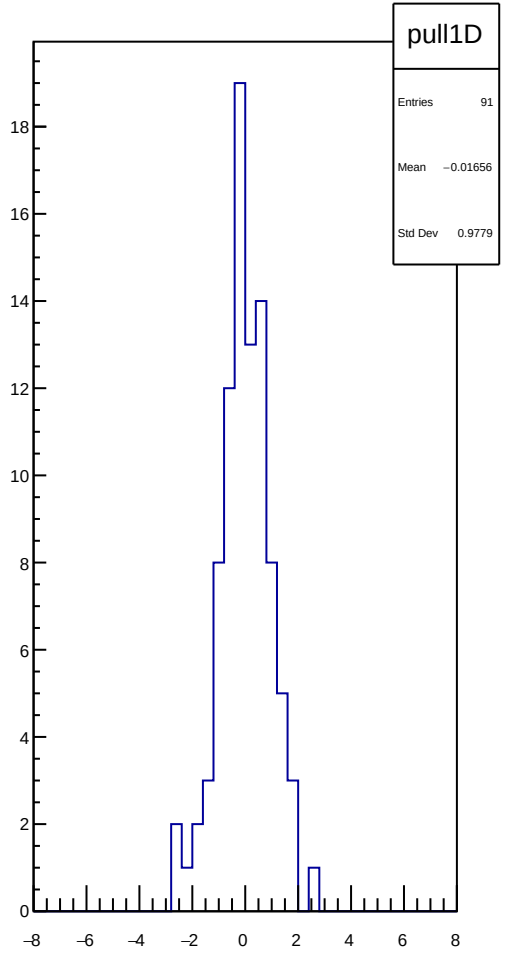

reg_asym_atr2_rms vs run
χ^2 / ndf 1371 / 90
p0 2450 ± 1.825
2600
2550
2500
2450
2400
2350
2300

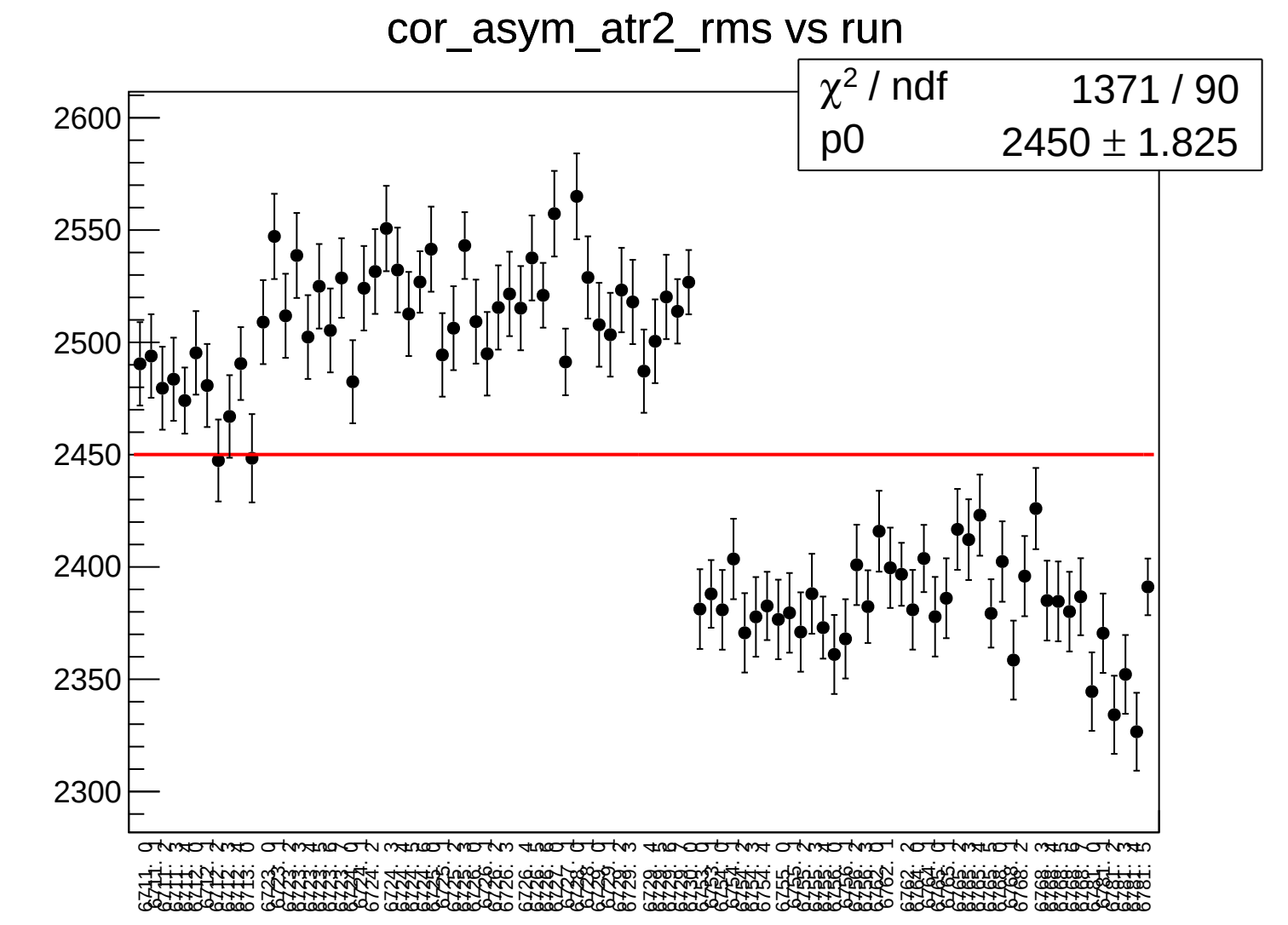

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 81.04 / 90
p0 −2058 ± 7921
pull
Entries 91
Mean −67.48
Std Dev 0

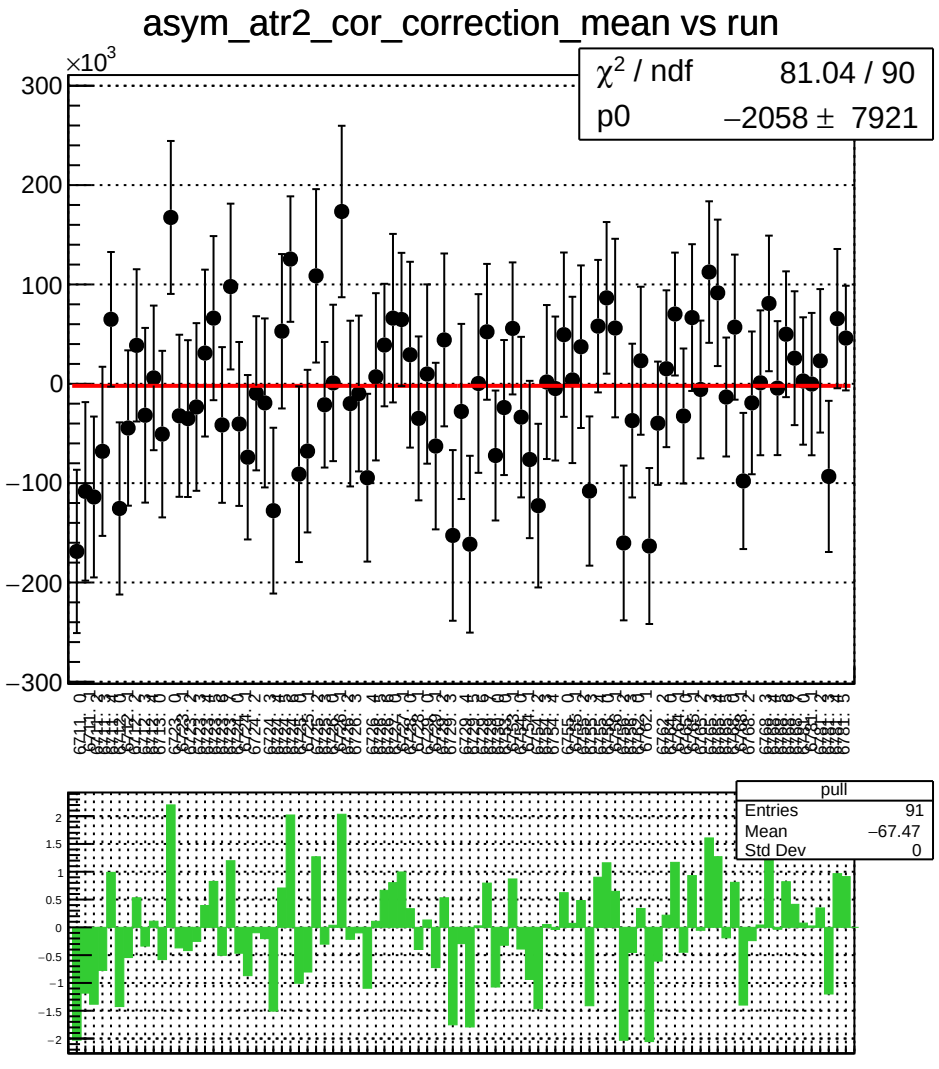

pull1D
Entries 91
Mean −0.03366
Std Dev 0.9431

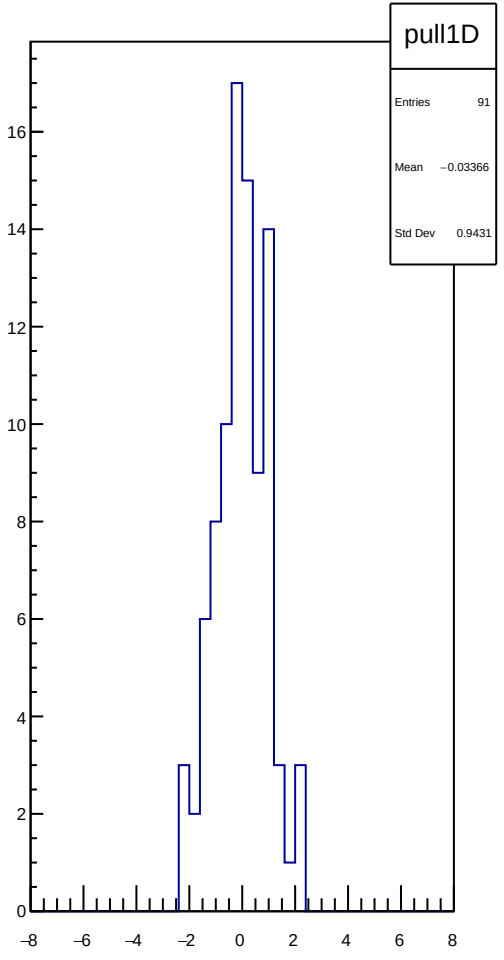

asym_atr2_reg_correction_rms vs run
χ² / ndf 1.345e+04 / 90
p0 7495 ± 5.601
9000
8500
8000
7500
7000
6500
6000

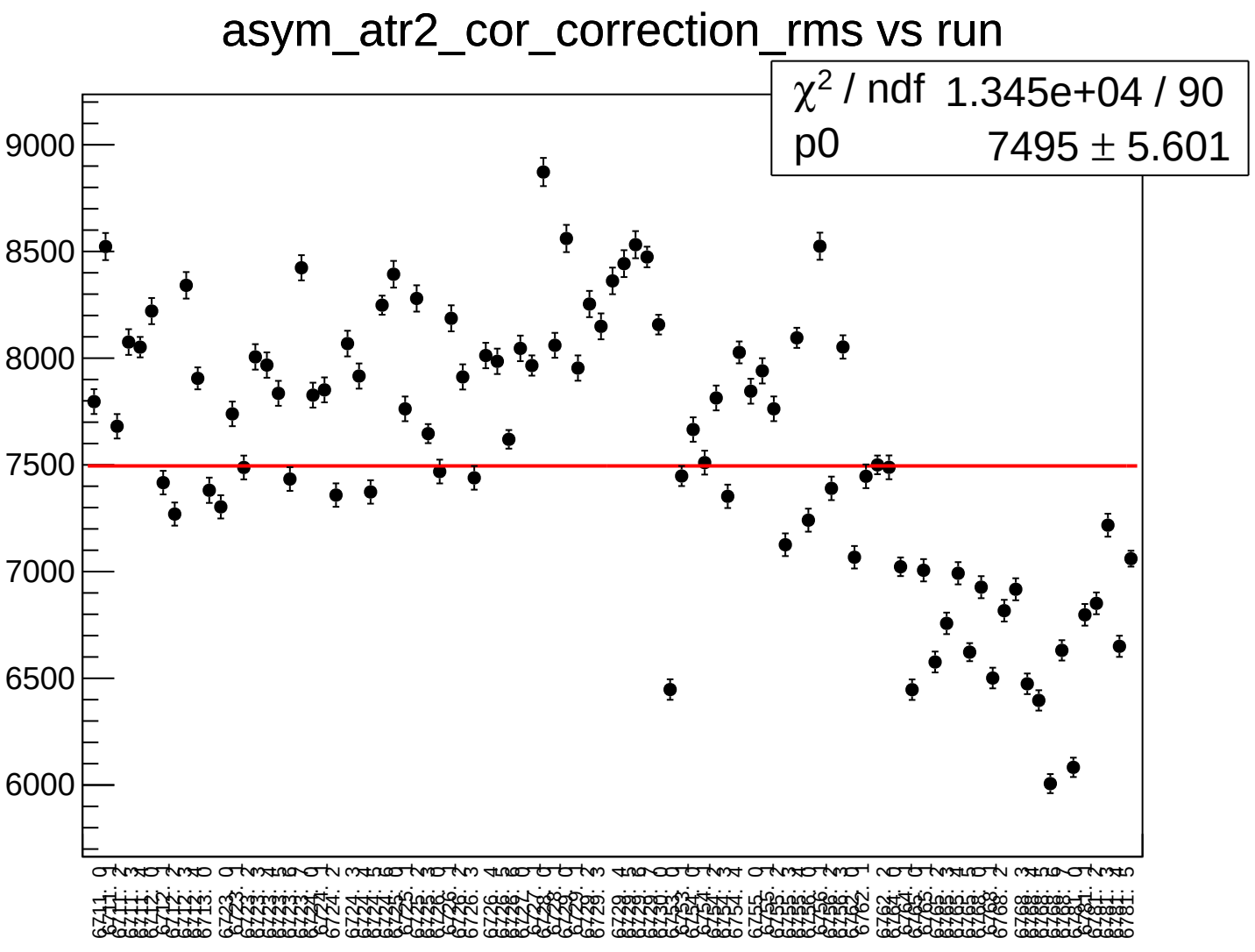

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 87.05 / 90
p0 −3025 ± 2580
100
50
0
−50
−100
pull
Entries 91
Mean −162.8
Std Dev 0
2
1
0
−1
−2

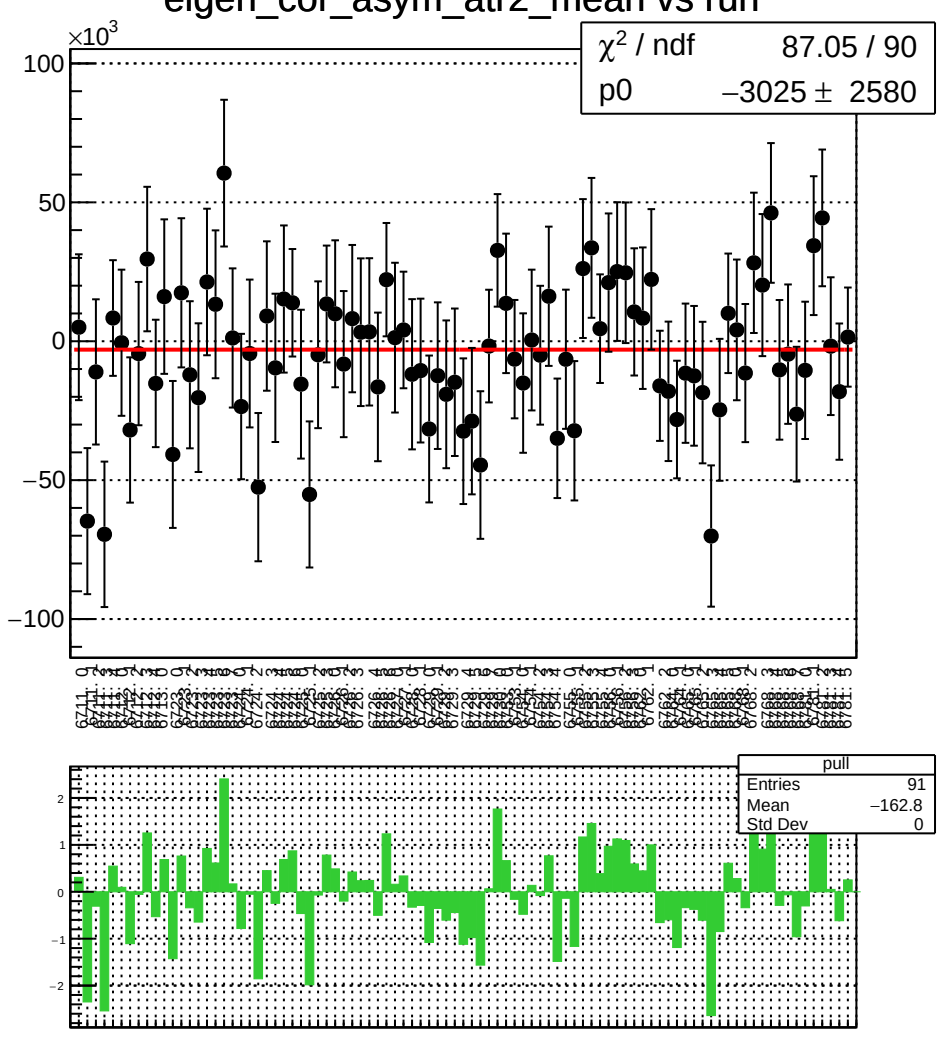

pull1D
Entries 91
Mean −0.01656
Std Dev 0.9779
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

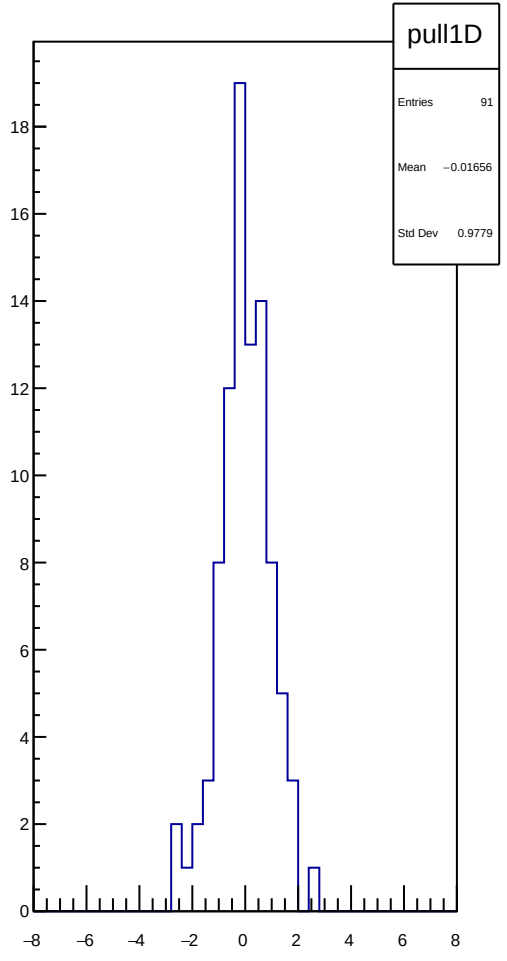

cor_asym_atr2_rms vs run
χ² / ndf 1371 / 90
p0 2450 ± 1.825
2600
2550
2500
2450
2400
2350
2300

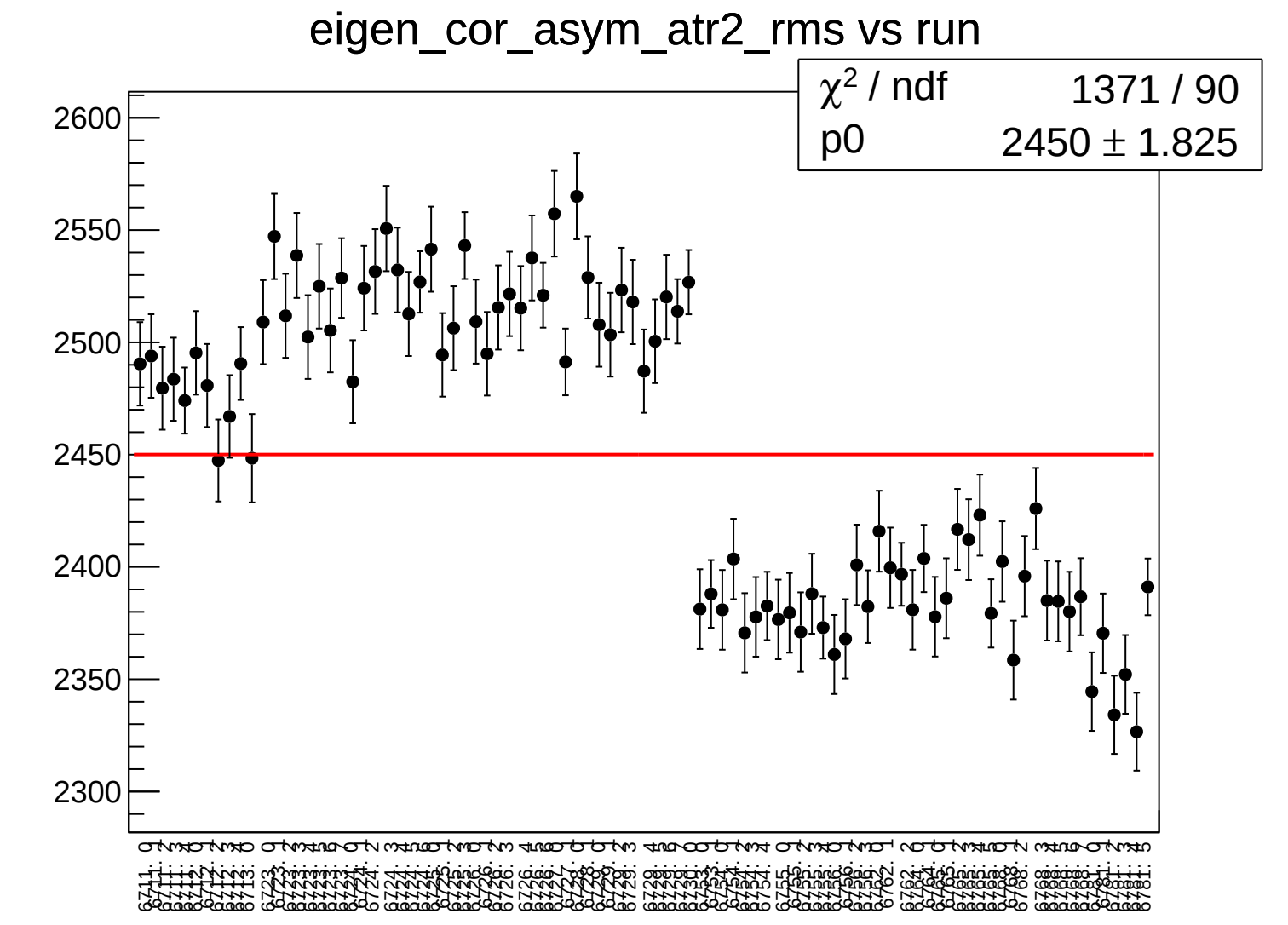

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 81.04 / 90
p0 −2058 ± 7921
pull
Entries 91
Mean −67.47
Std Dev 0

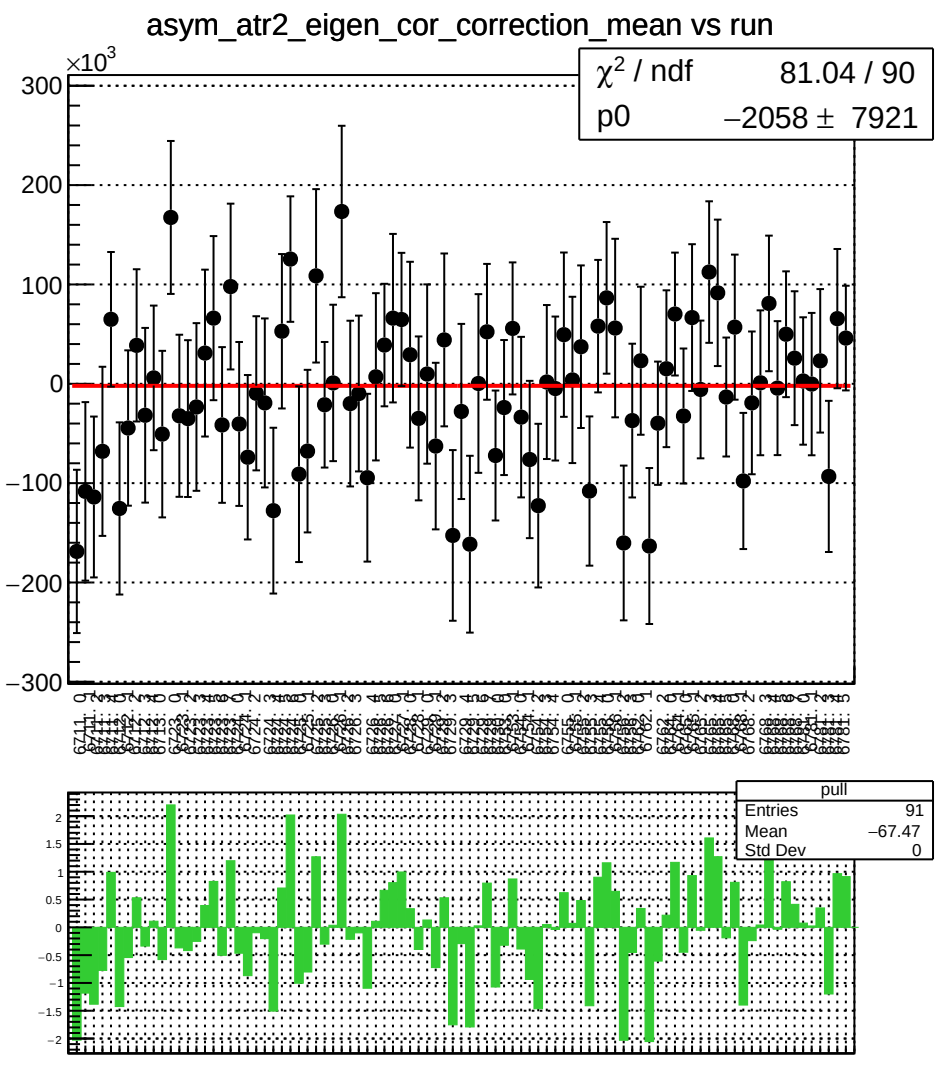

pull1D
Entries 91
Mean −0.03366
Std Dev 0.9431

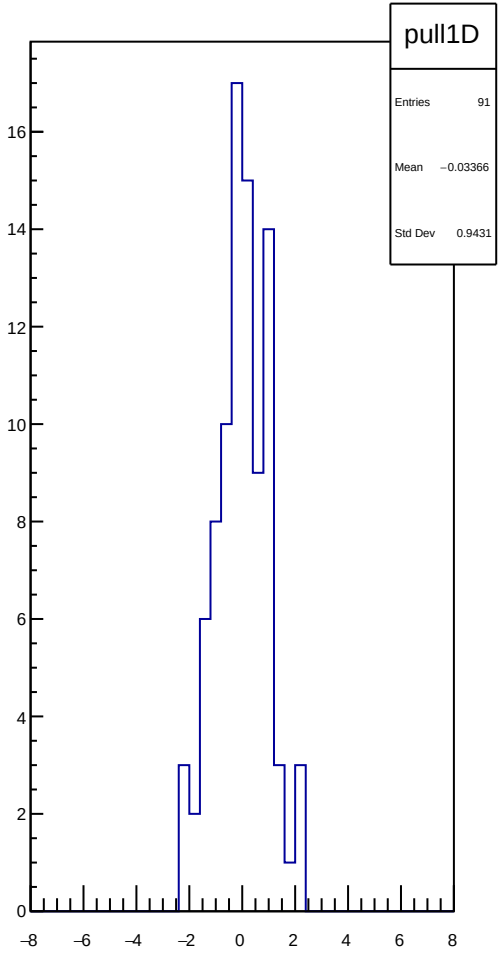

asym_atr2_cor_correction_rms vs run
χ² / ndf 1.345e+04 / 90
p0 7495 ± 5.601
9000
8500
8000
7500
7000
6500
6000

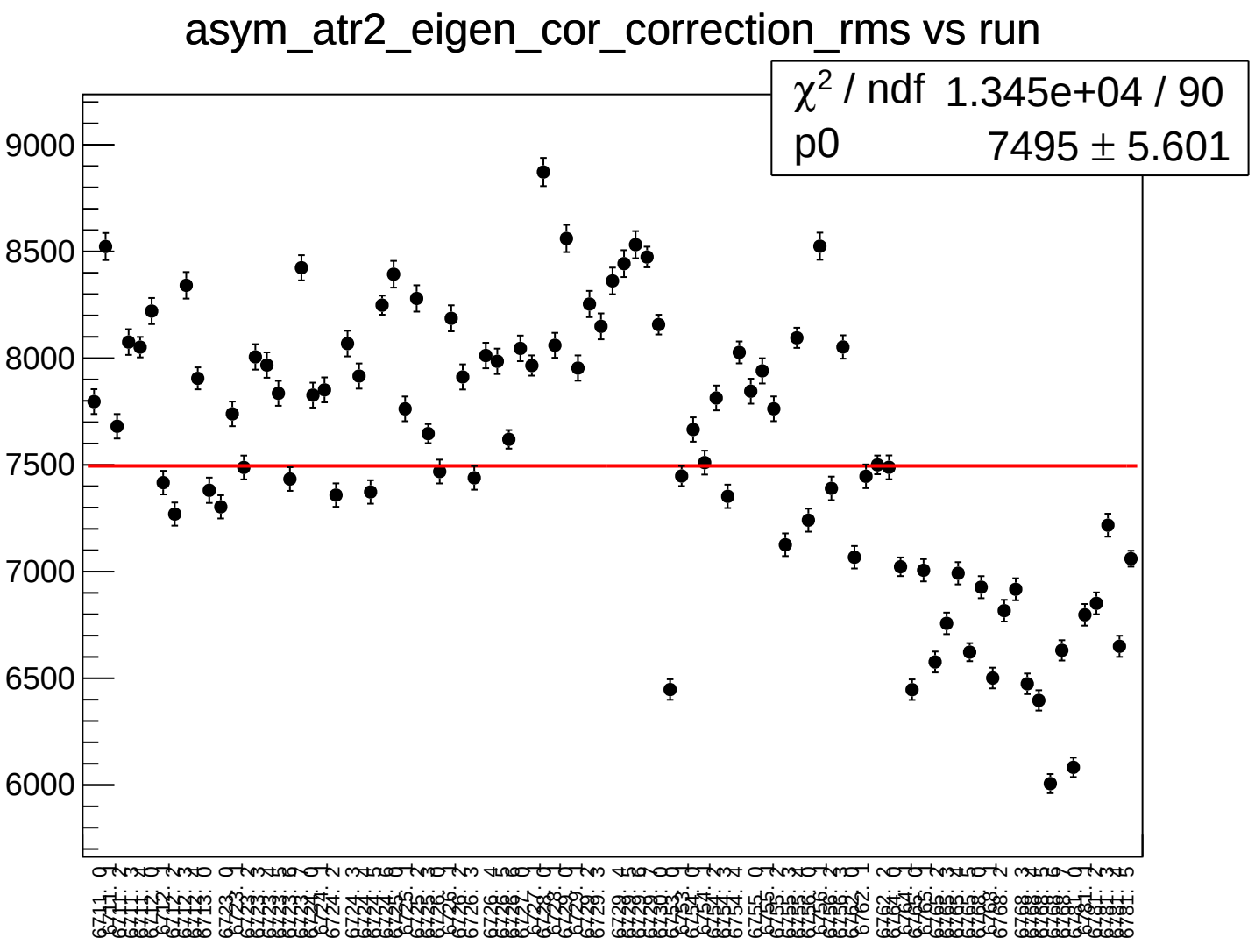

eigen_cor_asym_atr2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 87.05 / 90
p0 −3025 ± 2580
pull
Entries 91
Mean −162.8
Std Dev 0
2
1
0
−1
−2

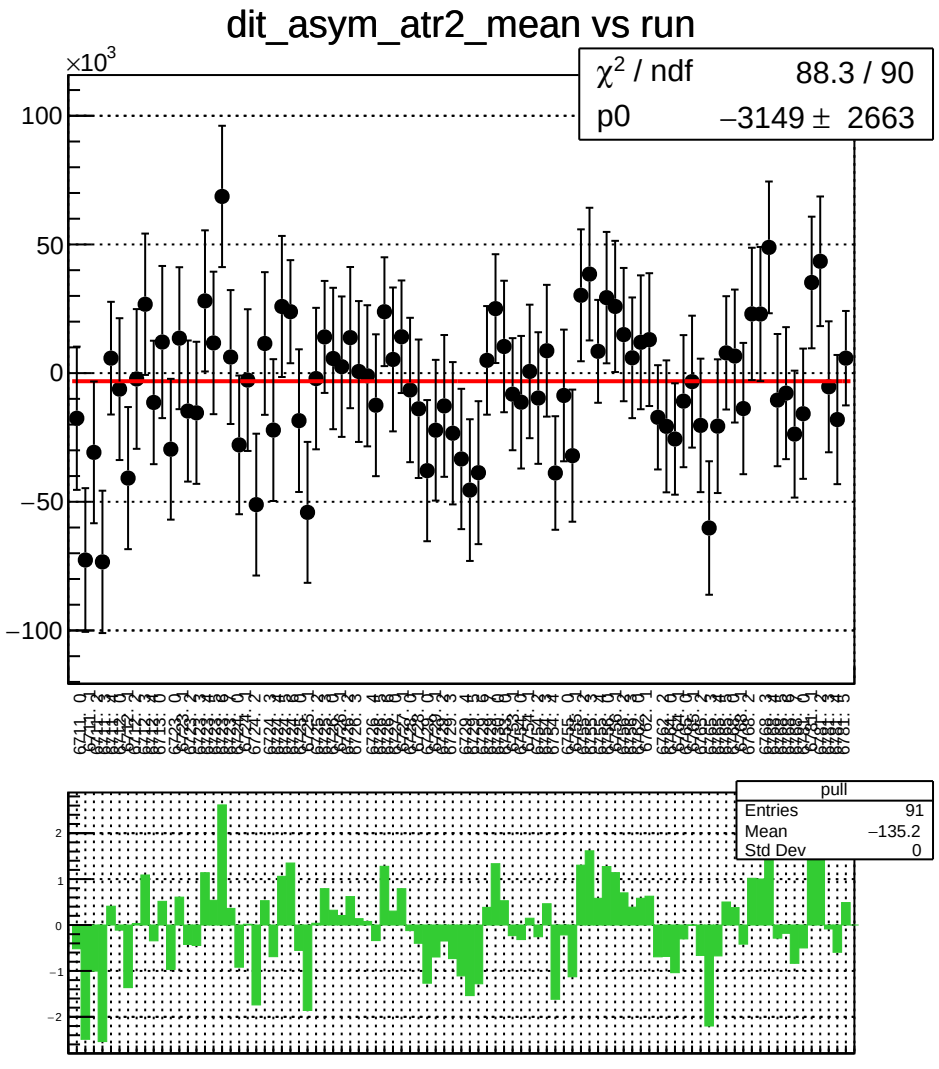

pull1D
Entries 91
Mean −0.01656
Std Dev 0.9779
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

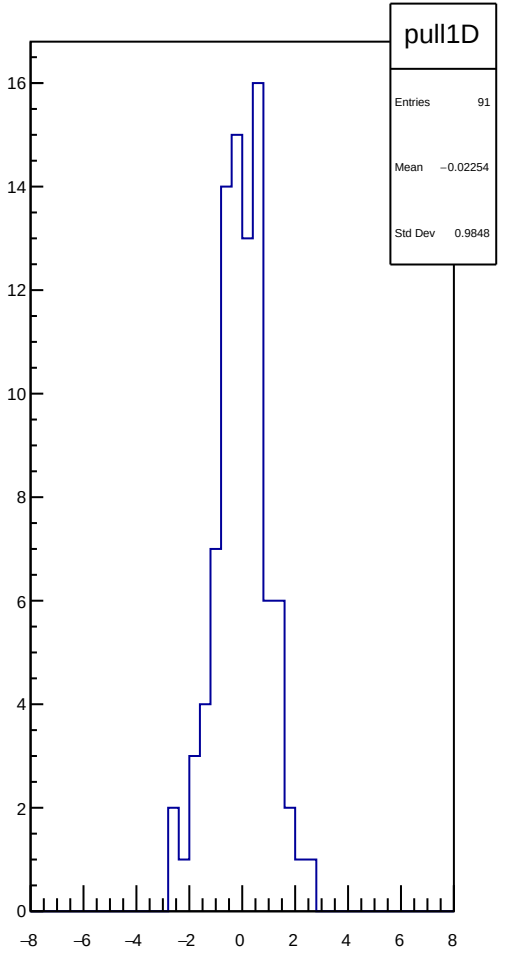

eigen_cor_asym_atr2_rms vs run
χ² / ndf 1371 / 90
p0 2450 ± 1.825
2600
2550
2500
2450
2400
2350
2300

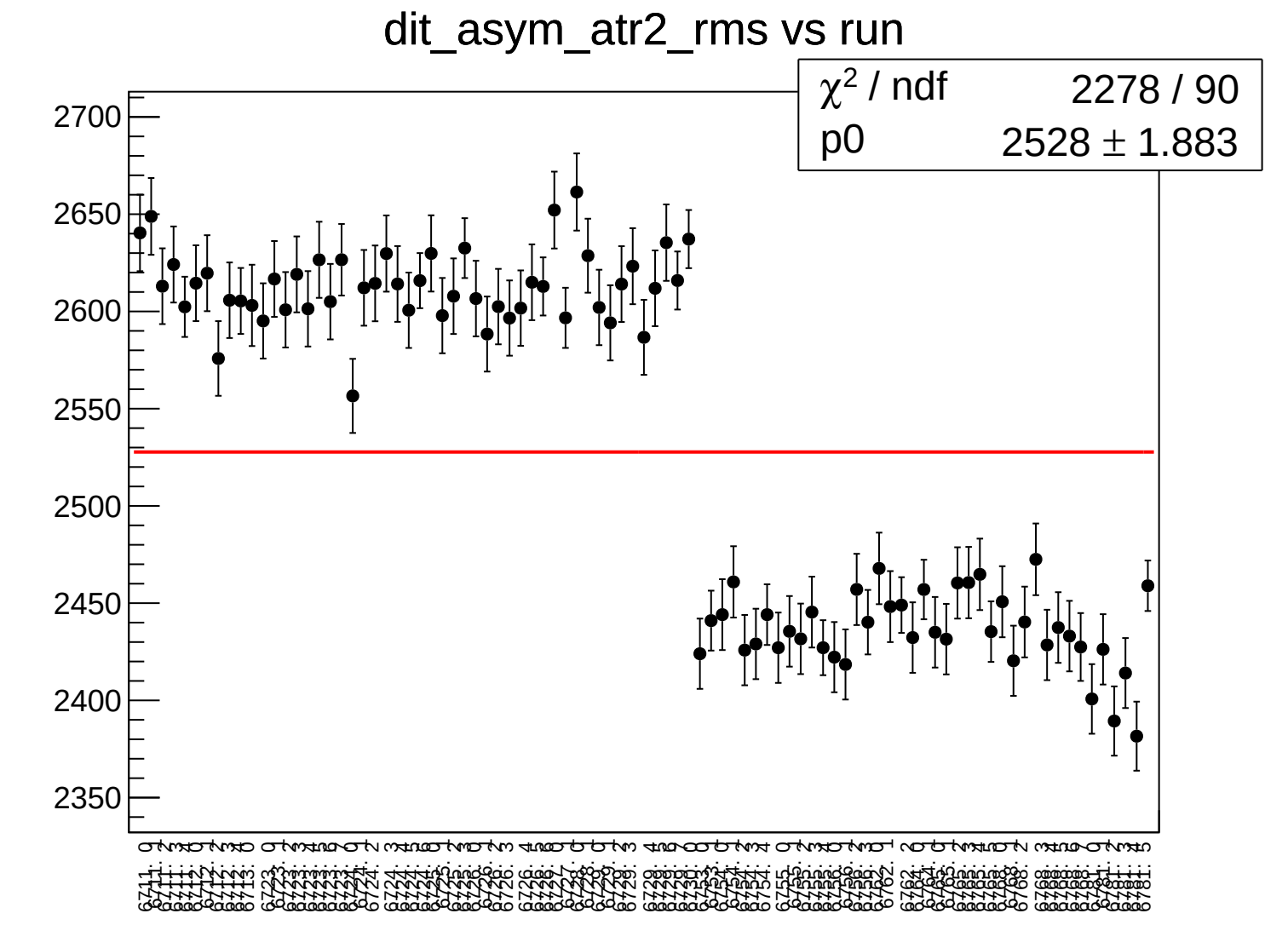

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 81.04 / 90
p0 −2058 ± 7921
pull
Entries 91
Mean −67.47
Std Dev 0

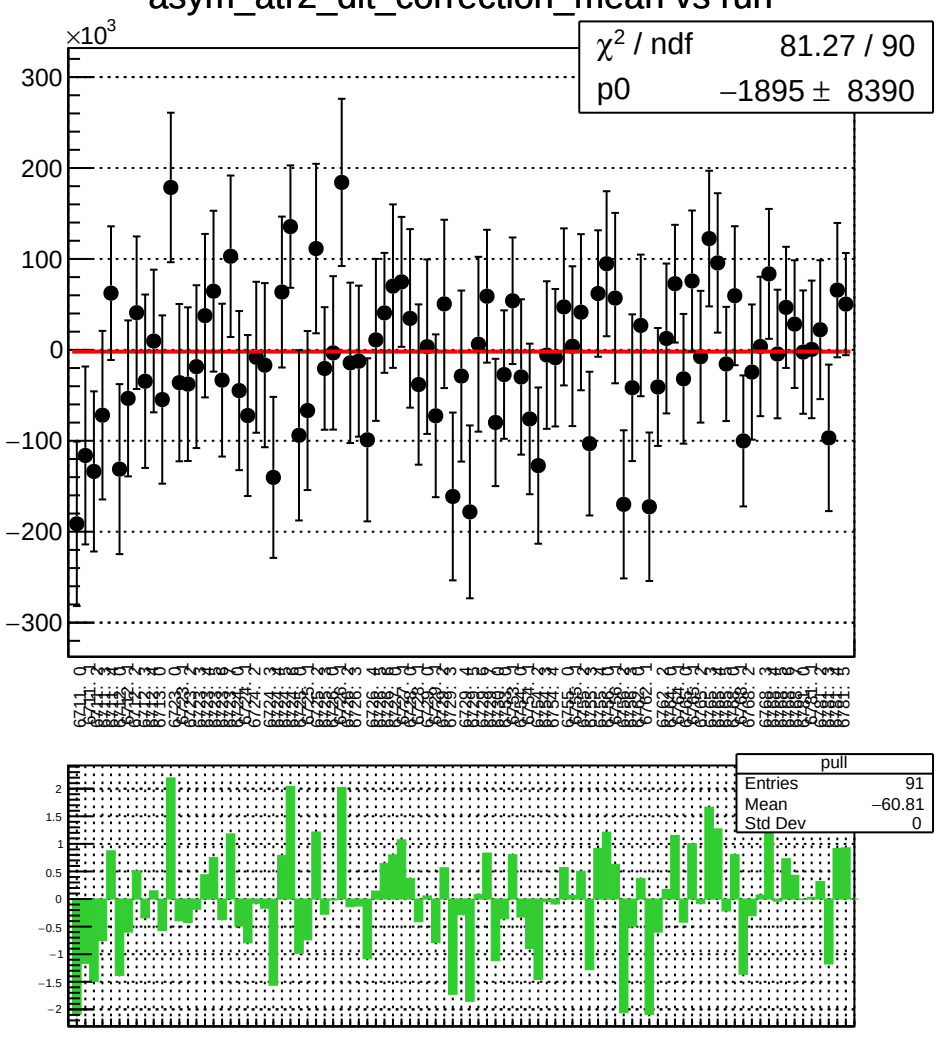

pull1D
Entries 91
Mean −0.03366
Std Dev 0.9431

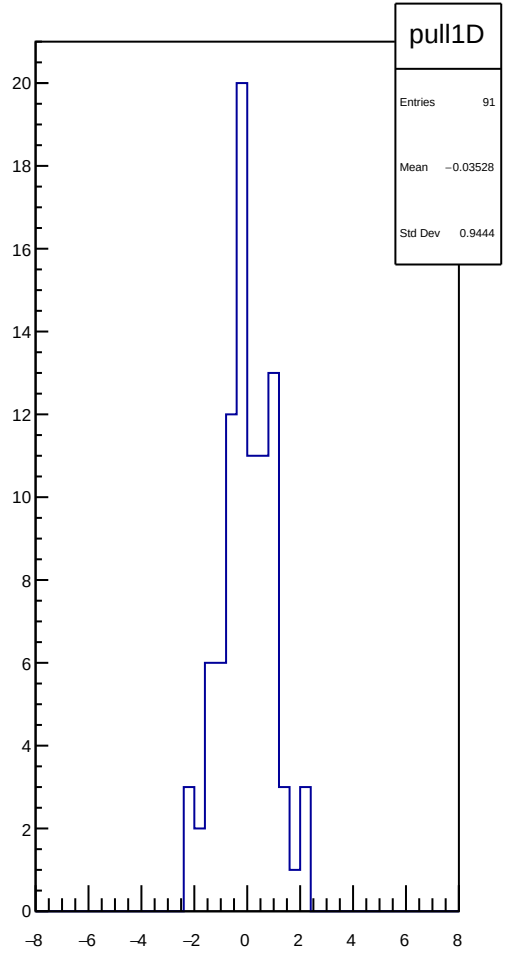

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 1.345e+04 / 90
p0 7495 ± 5.601
9000
8500
8000
7500
7000
6500
6000

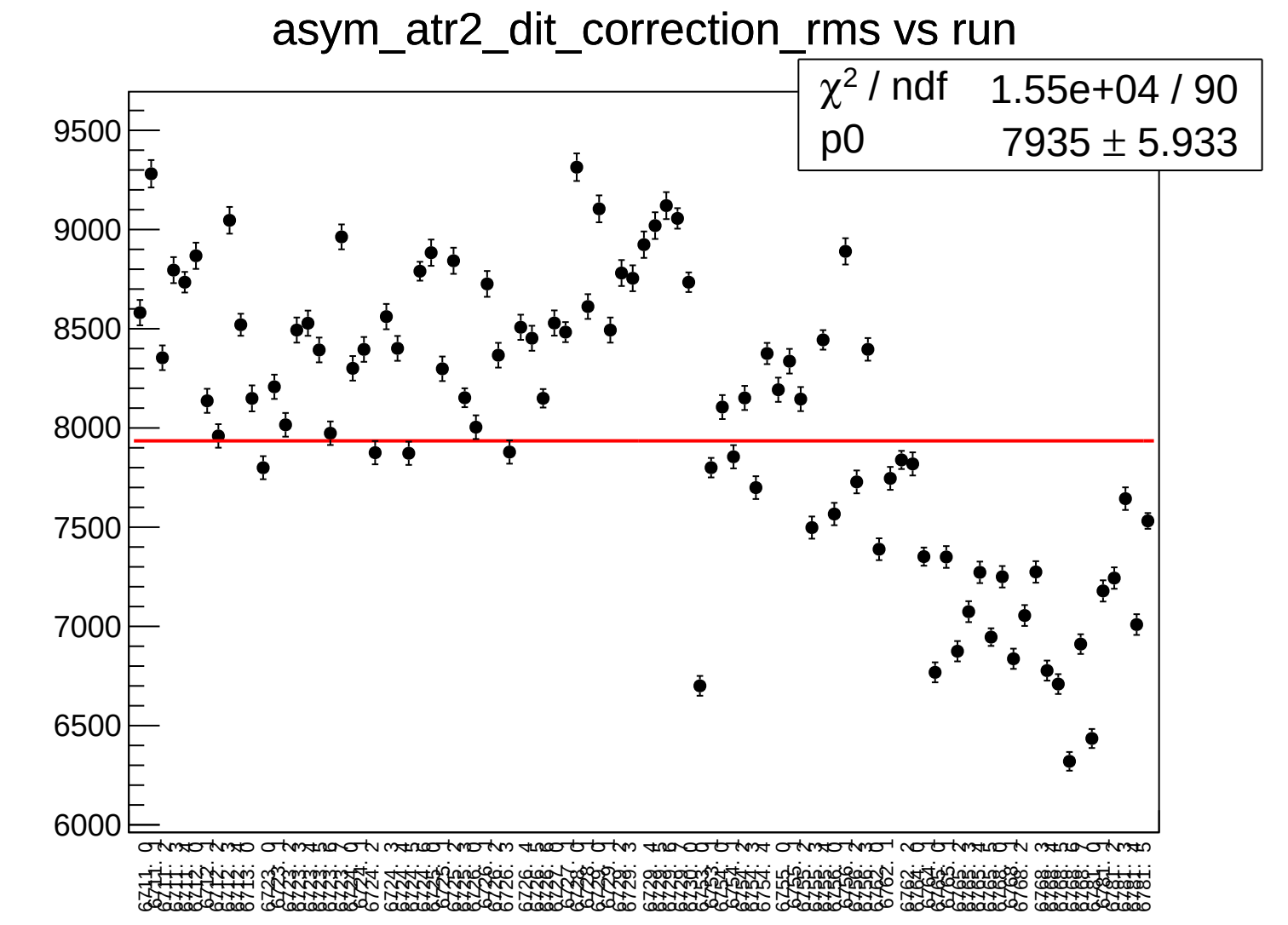

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 88.3 / 90
p0 −3149 ± 2663
100
50
0
−50
−100
pull
Entries 91
Mean −135.2
Std Dev 0
2
1
0
−1
−2

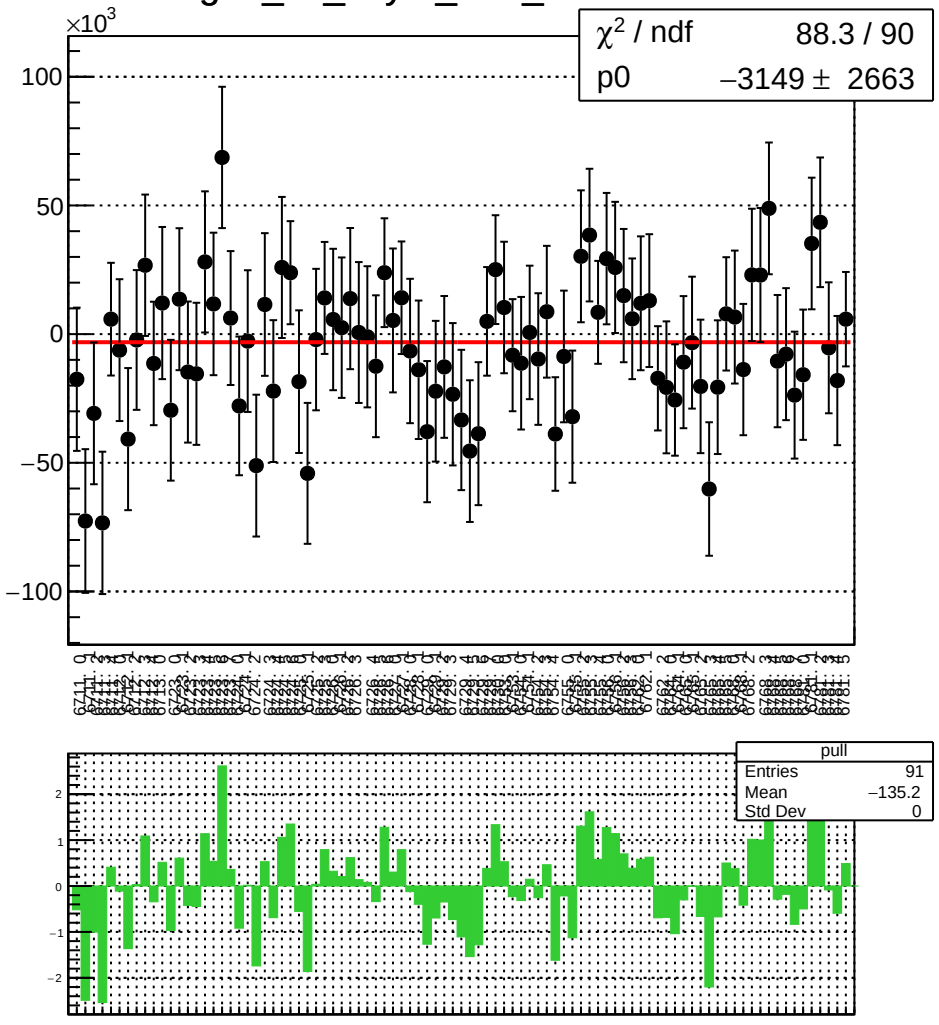

pull1D
Entries 91
Mean −0.02254
Std Dev 0.9848
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

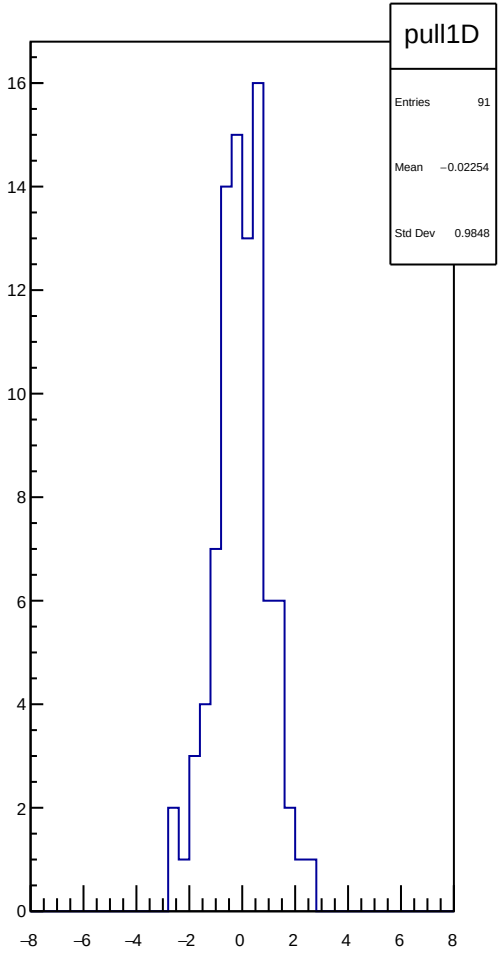

dit_asym_atr2_rms vs run
χ^2 / ndf 2278 / 90
p0 2528 ± 1.883
2700
2650
2600
2550
2500
2450
2400
2350

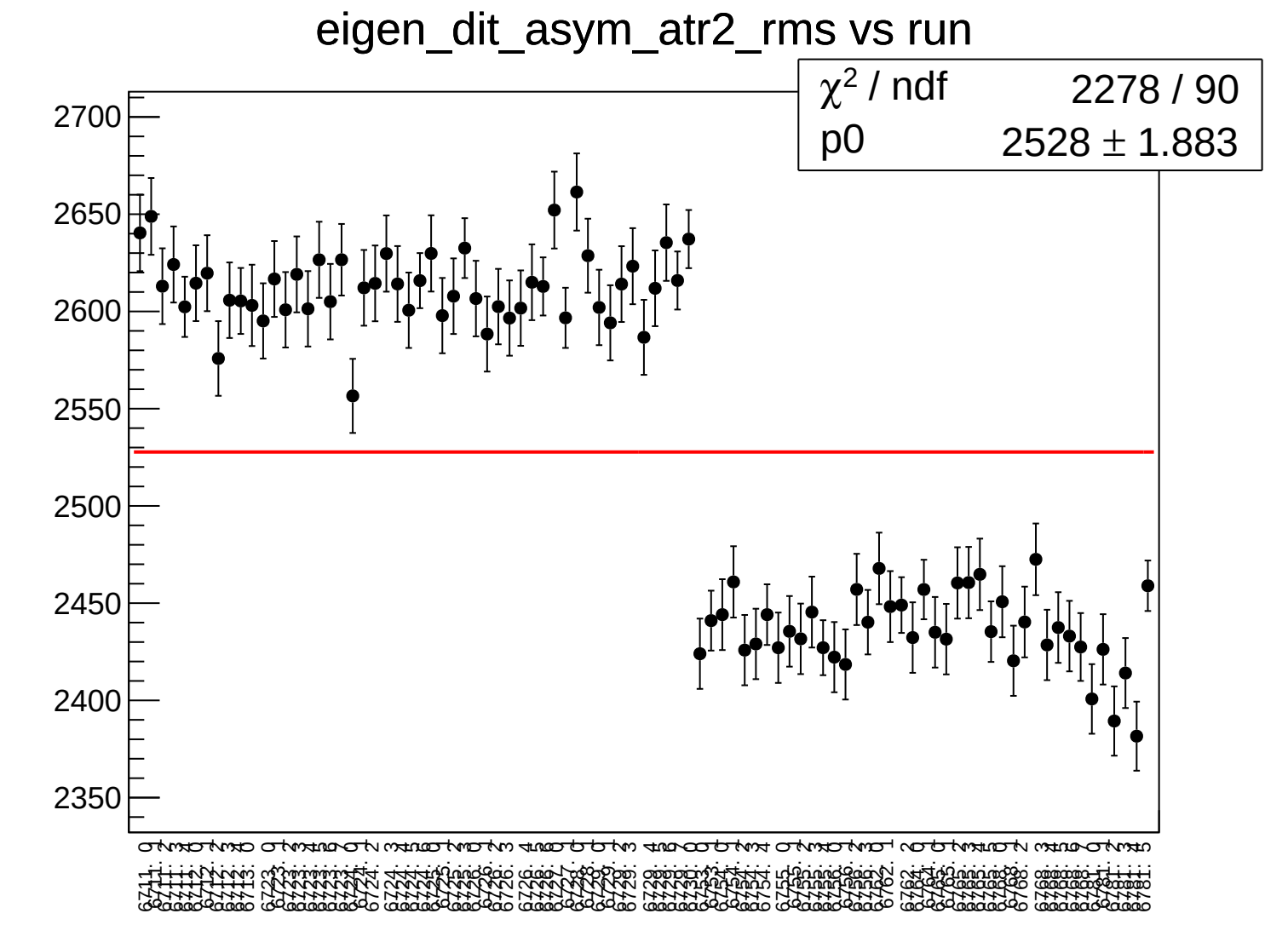

asym_atr2_dit_correction_mean vs run
χ² / ndf 81.27 / 90
p0 −1895 ± 8390
×10³
pull
Entries 91
Mean −60.81
Std Dev 0

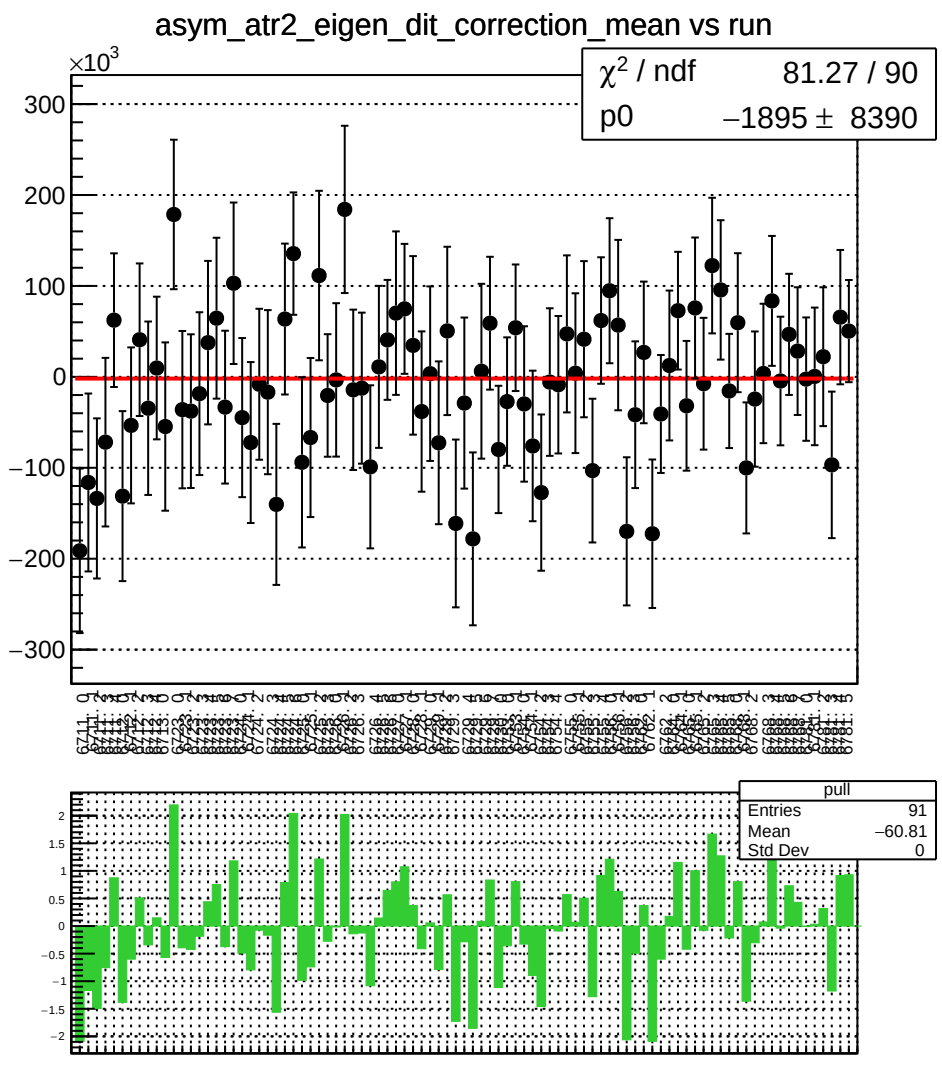

pull1D
Entries 91
Mean −0.03528
Std Dev 0.9444

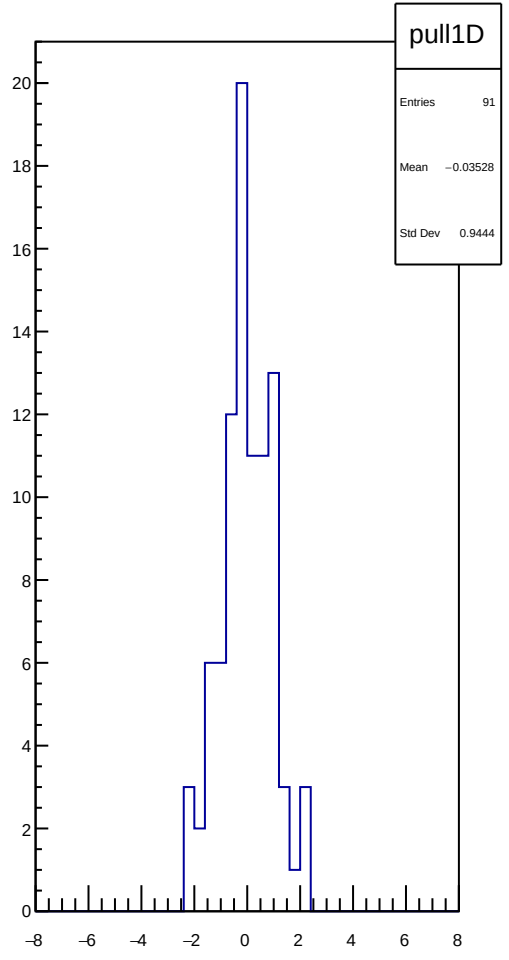

asym_atr2_dit_correction_rms vs run
χ² / ndf 1.55e+04 / 90
p0 7935 ± 5.933
9500
9000
8500
8000
7500
7000
6500
6000

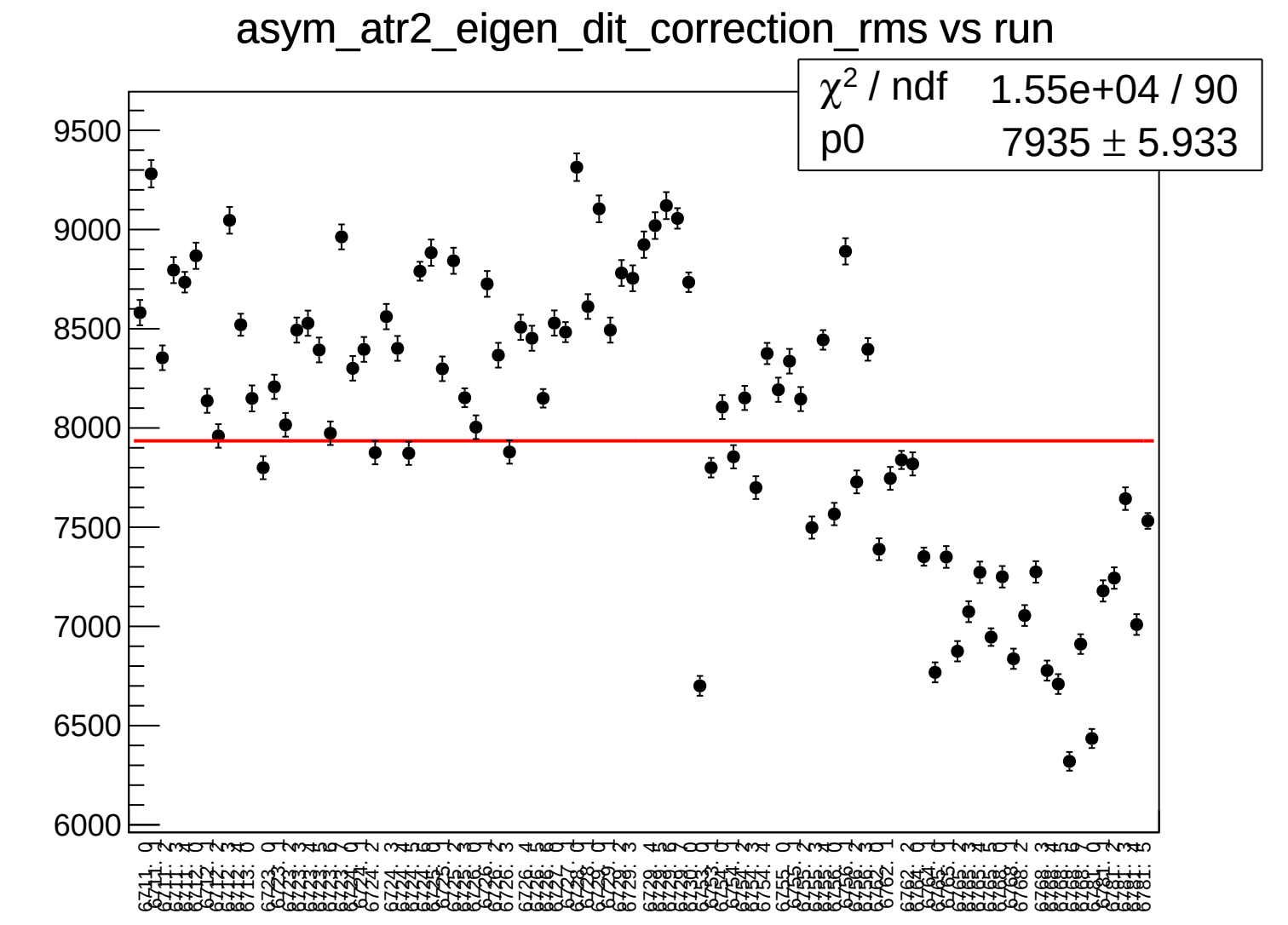

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 88.3 / 90
p0 −3149 ± 2663
100
50
0
−50
−100
pull
Entries 91
Mean −135.2
Std Dev 0
2
1
0
−1
−2

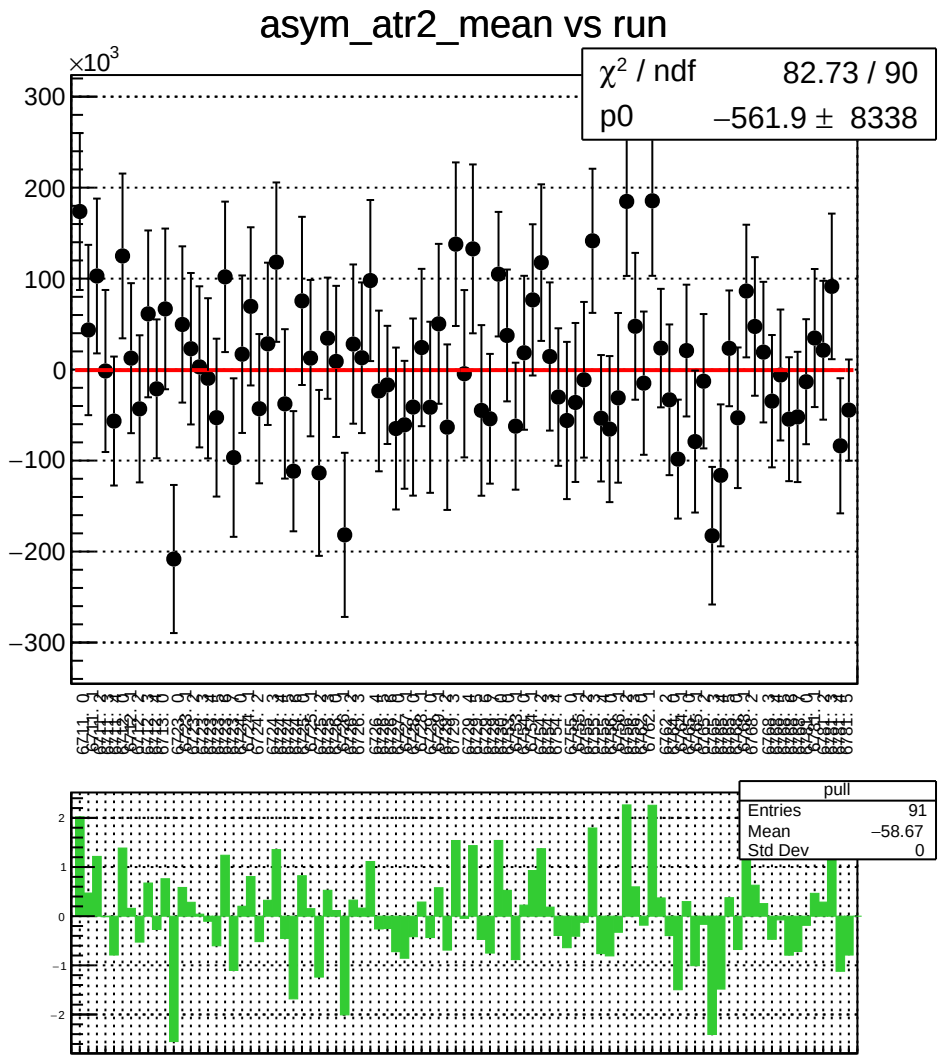

pull1D
Entries 91
Mean −0.02254
Std Dev 0.9848
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

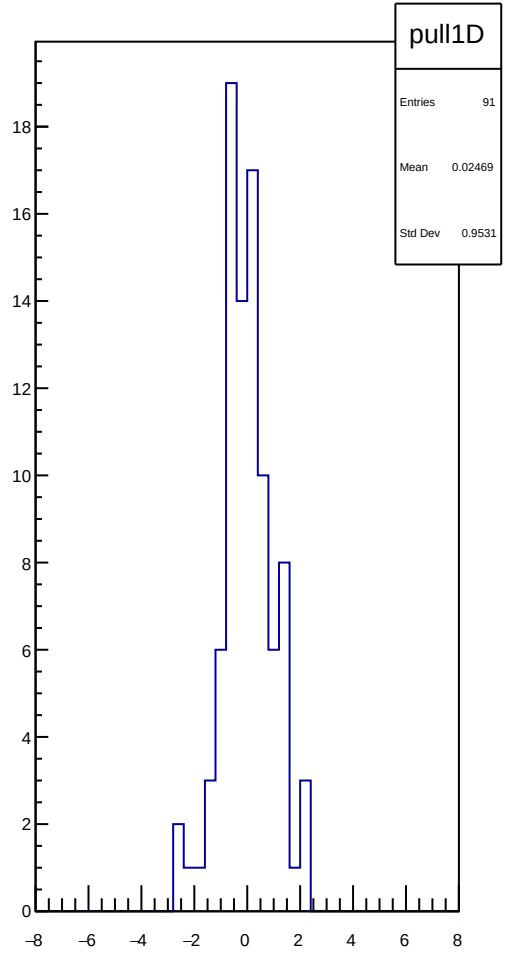

eigen_dit_asym_atr2_rms vs run
χ^2 / ndf 2278 / 90
p0 2528 ± 1.883
2700
2650
2600
2550
2500
2450
2400
2350

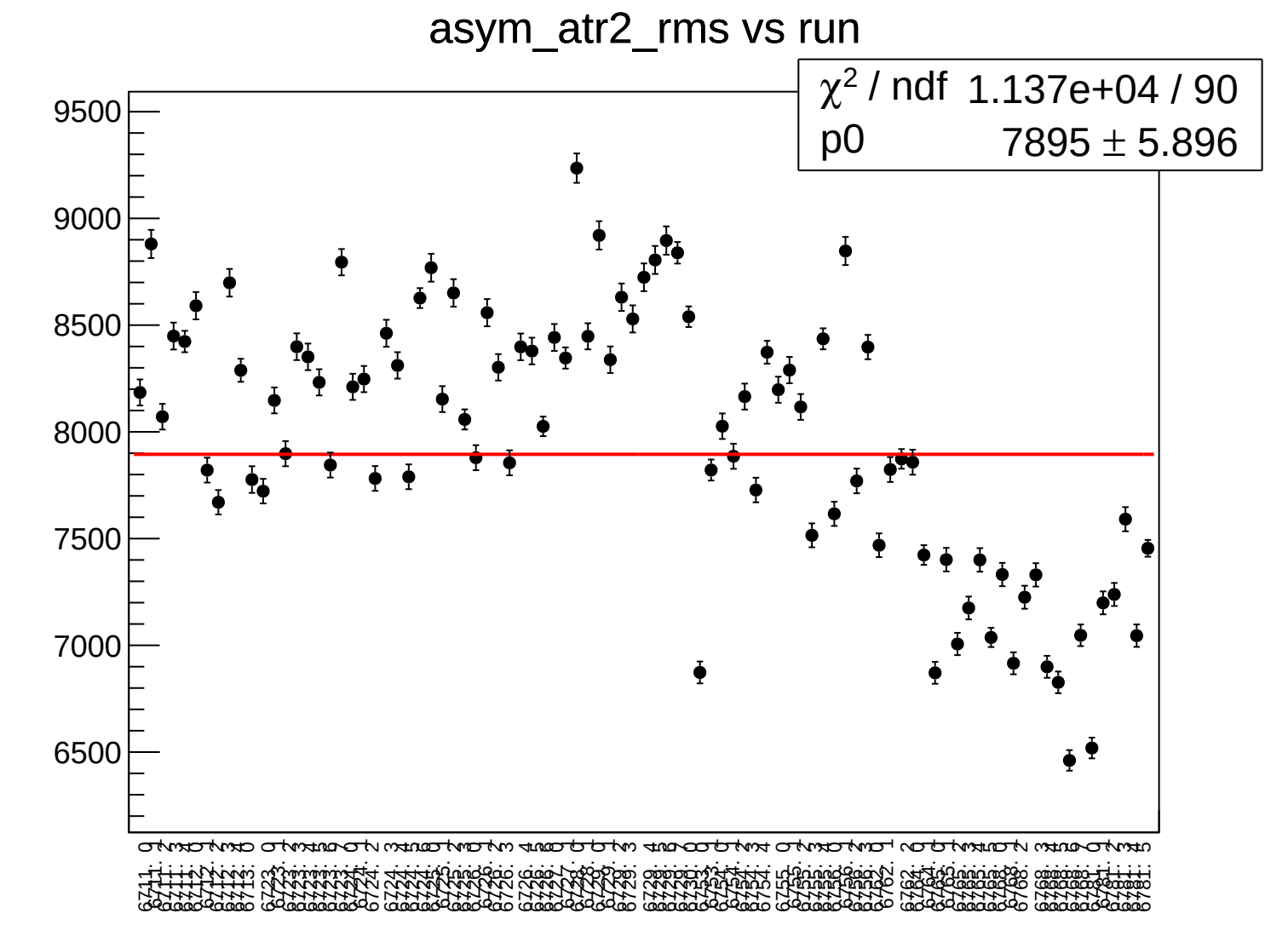

asym_atr2_eigen_dit_correction_mean vs run
χ² / ndf 81.27 / 90
p0 −1895 ± 8390
×10³
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −60.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

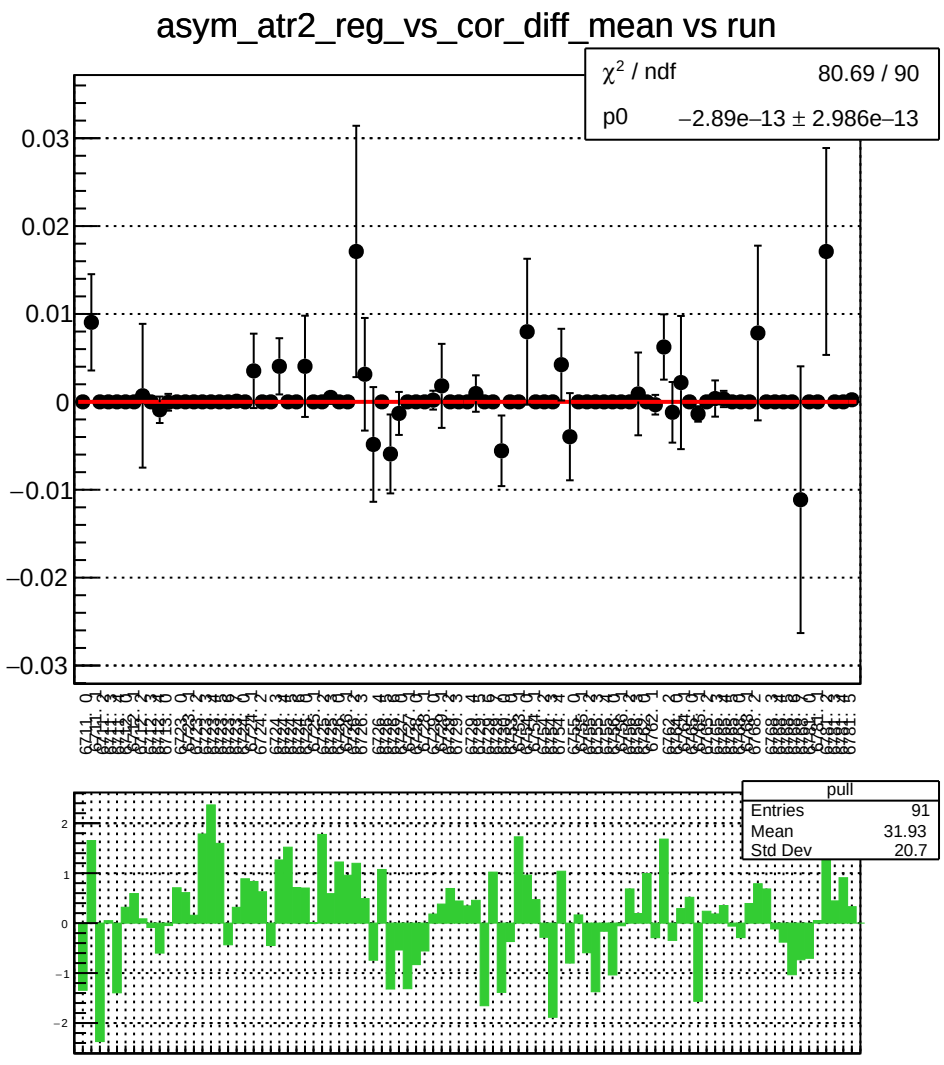

pull1D
Entries 91
Mean −0.03528
Std Dev 0.9444
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

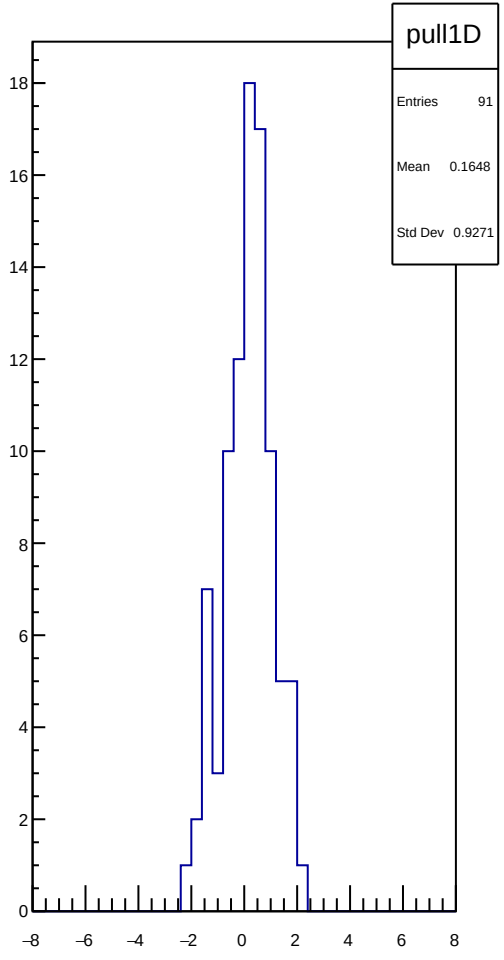

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 1.55e+04 / 90
p0 7935 ± 5.933
9500
9000
8500
8000
7500
7000
6500
6000

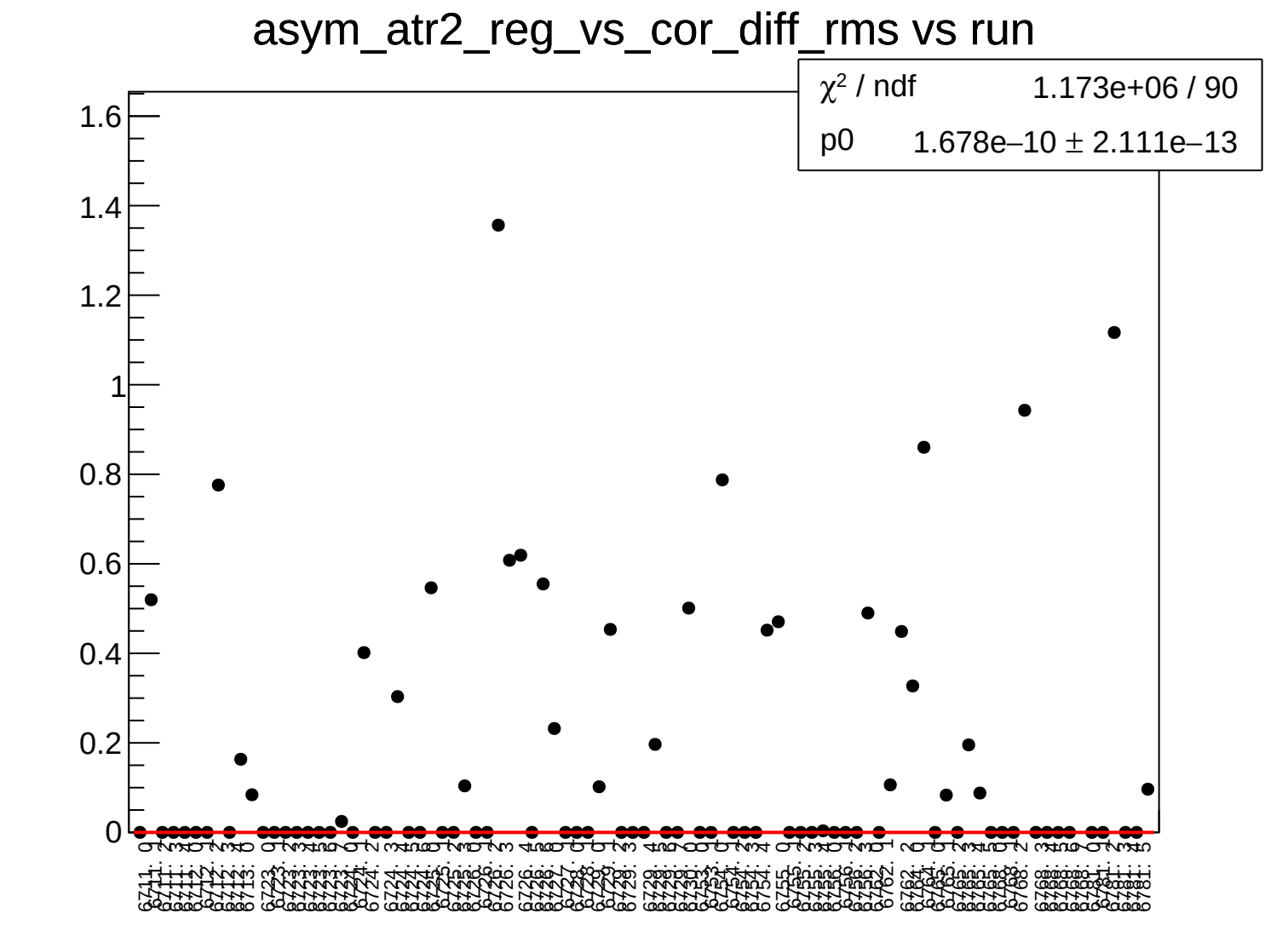

asym_atr2_mean vs run
×10^3
χ² / ndf 82.73 / 90
p0 −561.9 ± 8338
pull
Entries 91
Mean −58.67
Std Dev 0

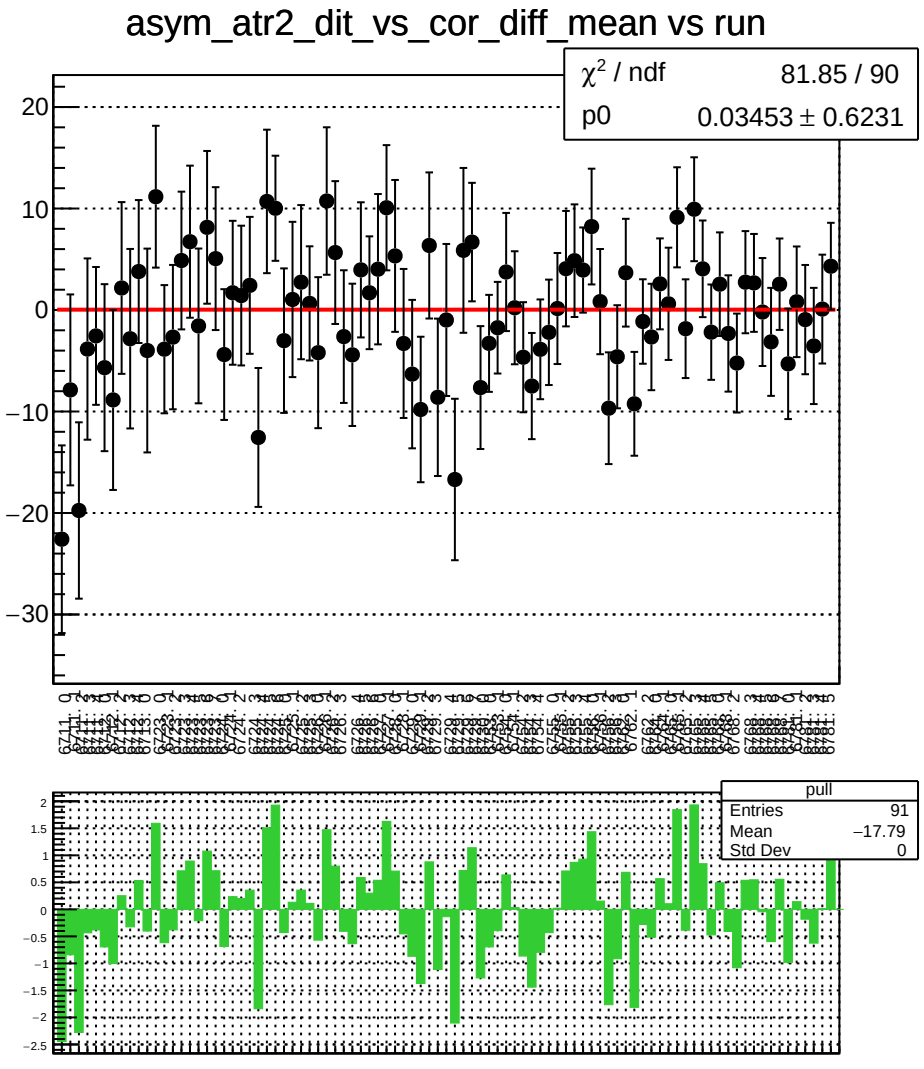

pull1D
Entries 91
Mean 0.02469
Std Dev 0.9531

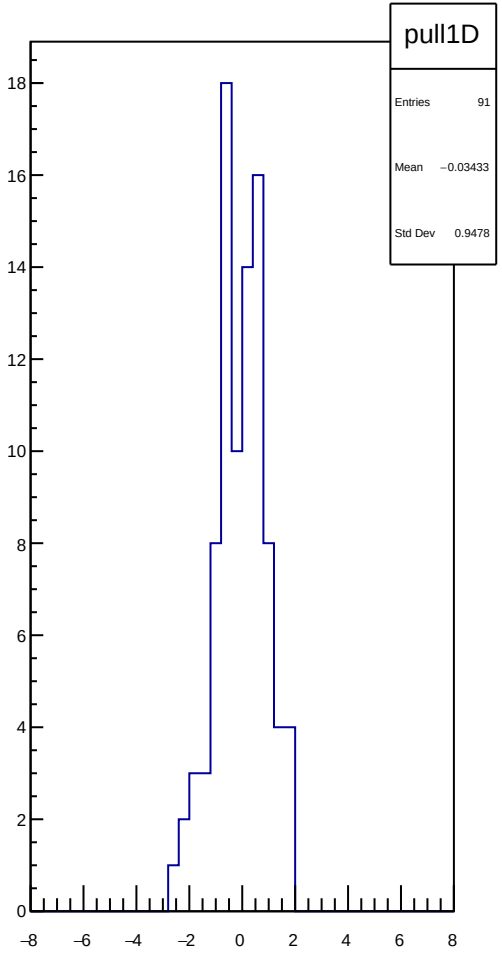

asym_atr2_rms vs run
χ^2 / ndf 1.137e+04 / 90
p0 7895 ± 5.896
9500
9000
8500
8000
7500
7000
6500

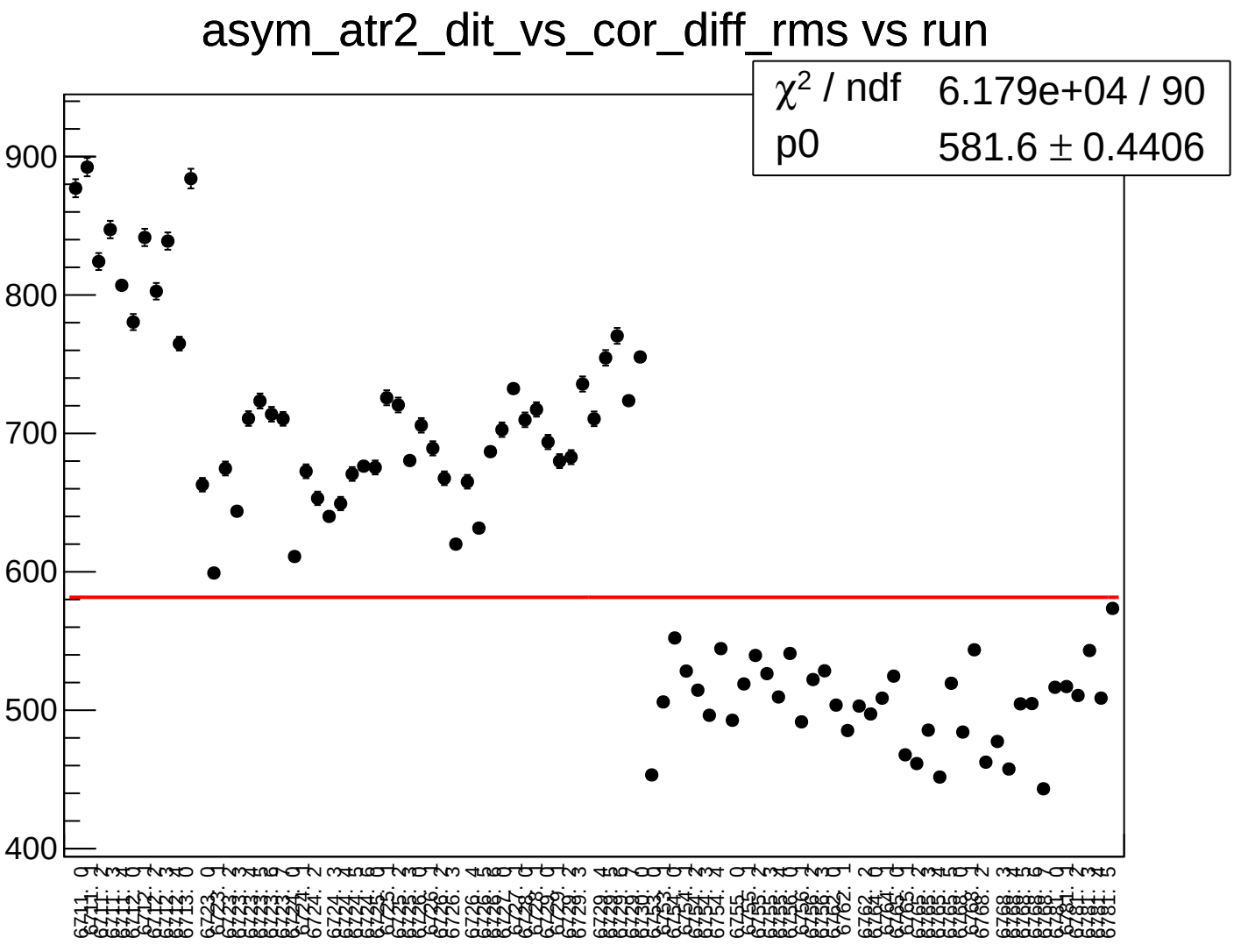

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 80.69 / 90
p0 −2.89e−13 ± 2.986e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 91
Mean 31.93
Std Dev 20.7
2
1
0
−1
−2

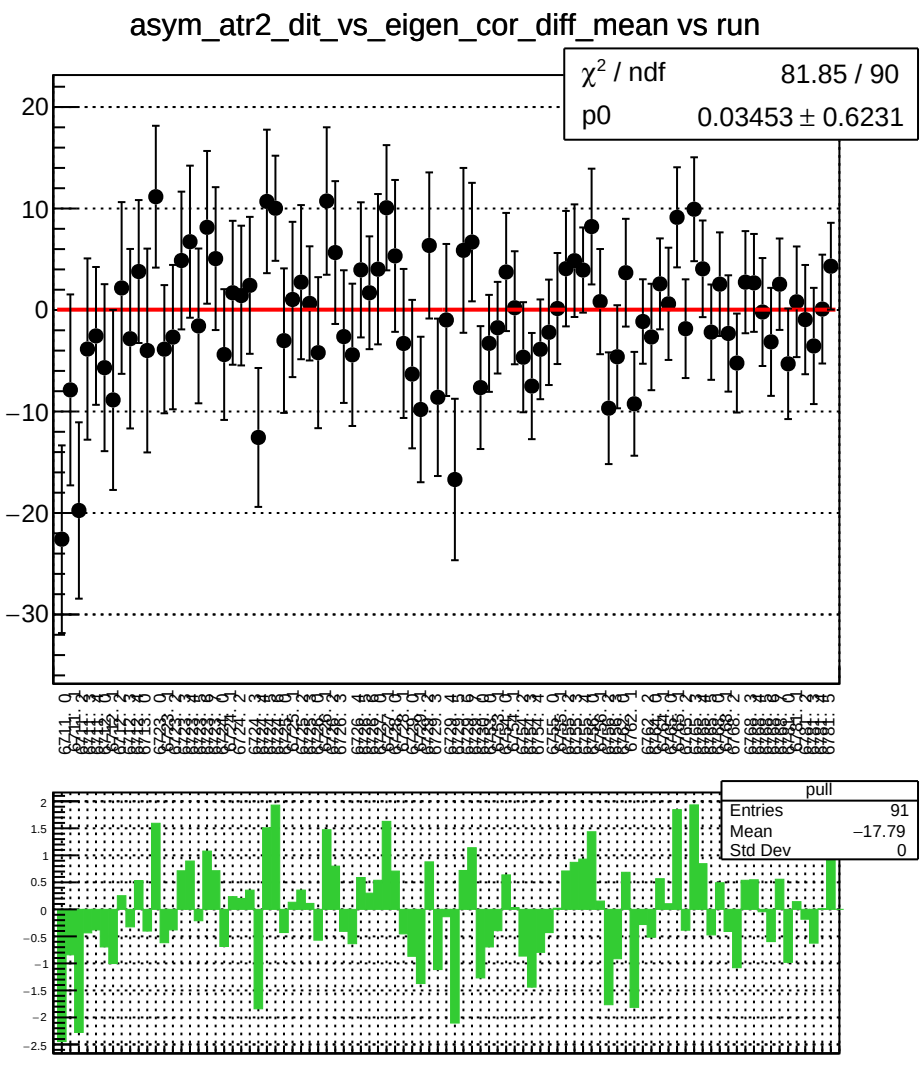

pull1D
Entries 91
Mean 0.1648
Std Dev 0.9271
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

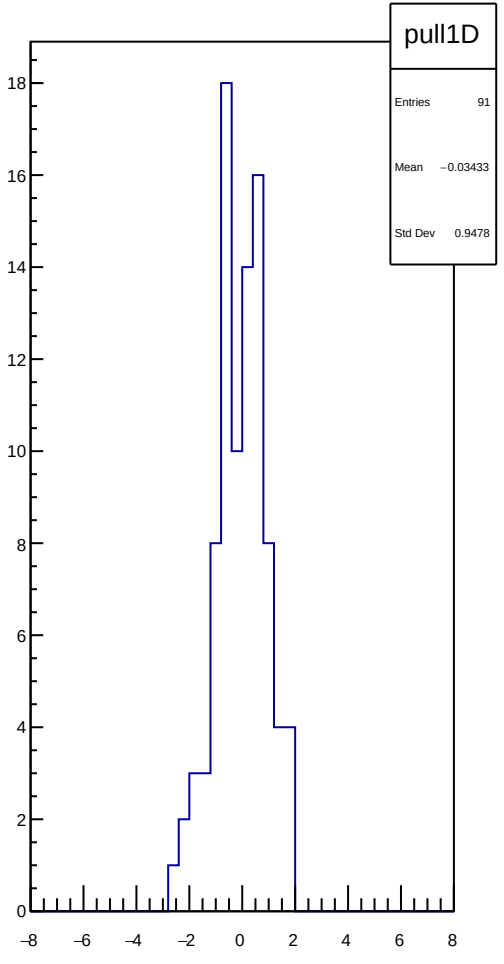

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.173e+06 / 90
p0 1.678e−10 ± 2.111e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

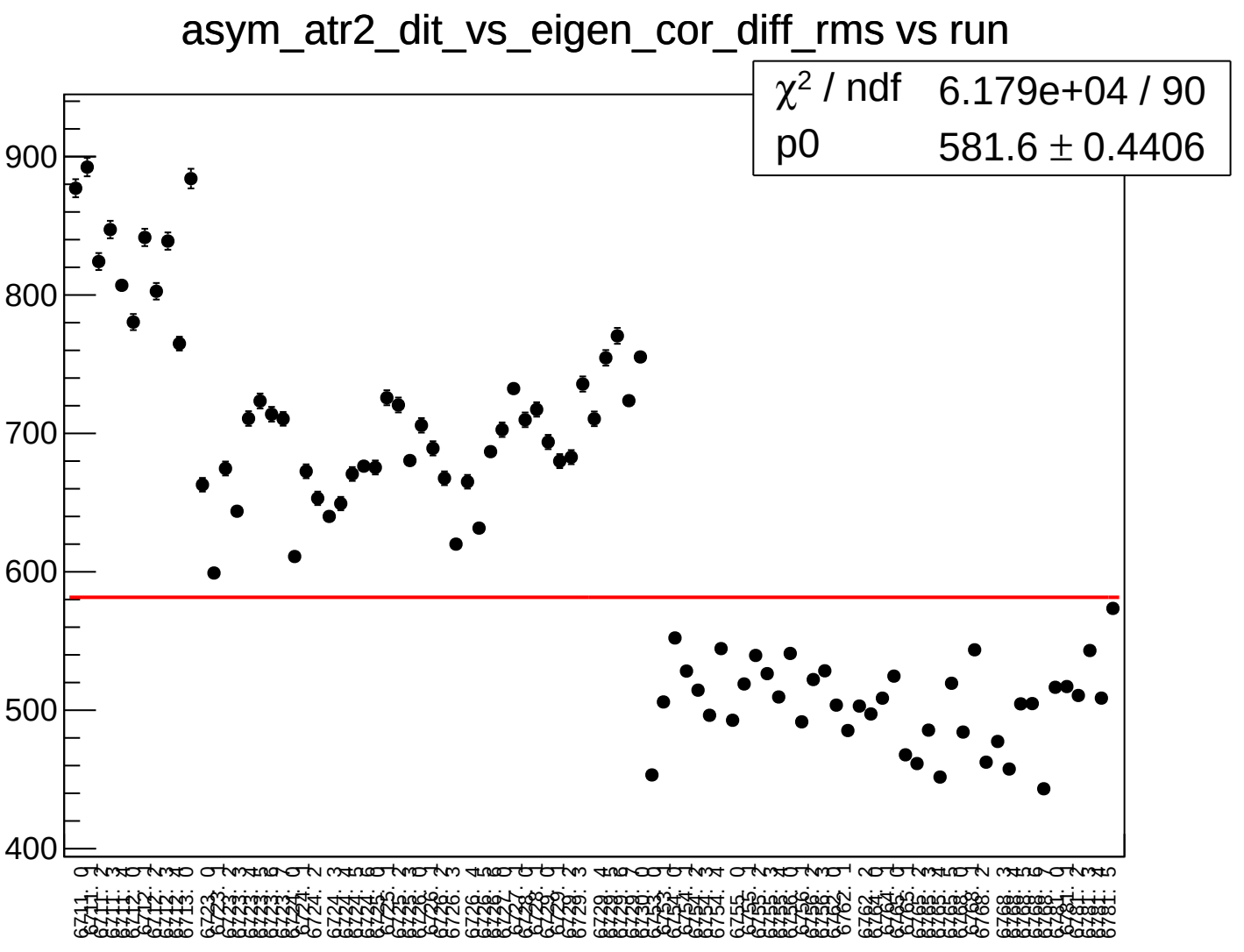

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 81.85 / 90
p0 0.03453 ± 0.6231
pull
Entries 91
Mean −17.79
Std Dev 0

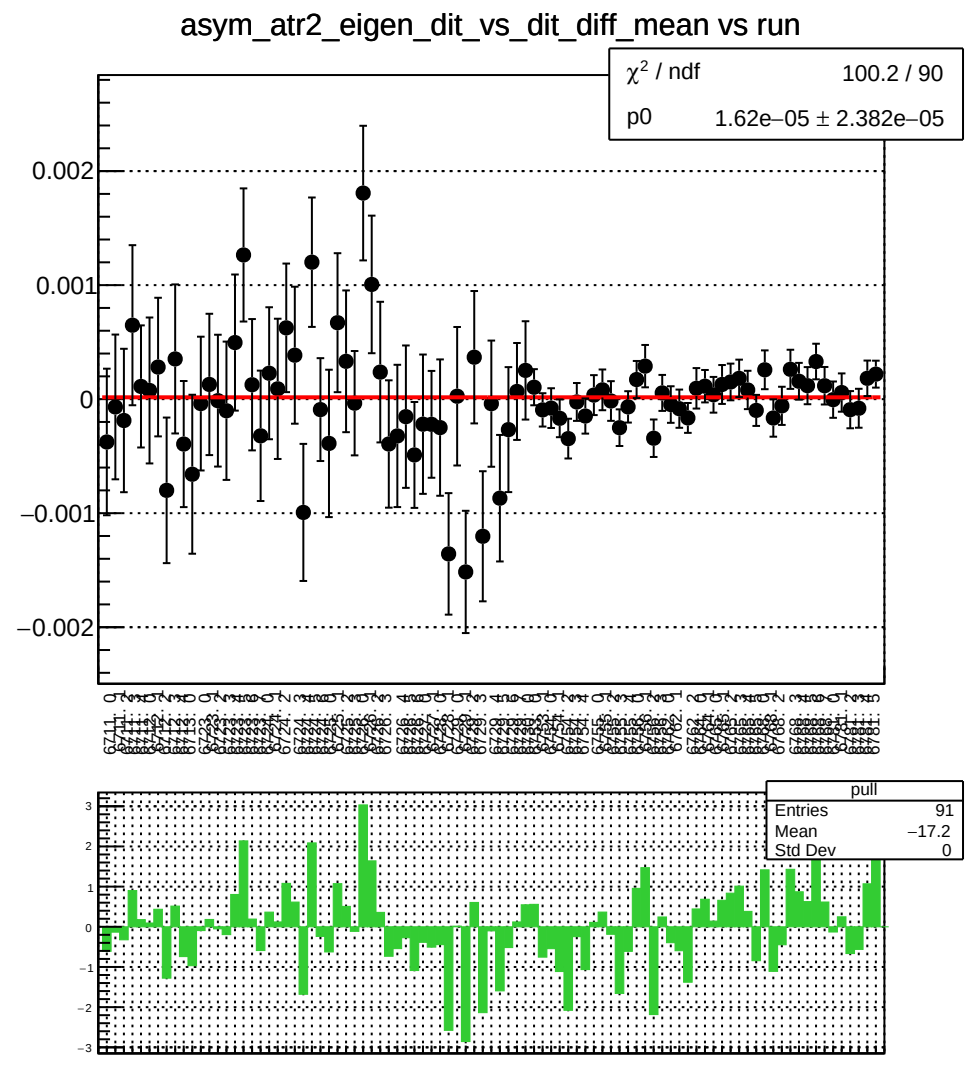

pull1D
Entries 91
Mean −0.03433
Std Dev 0.9478

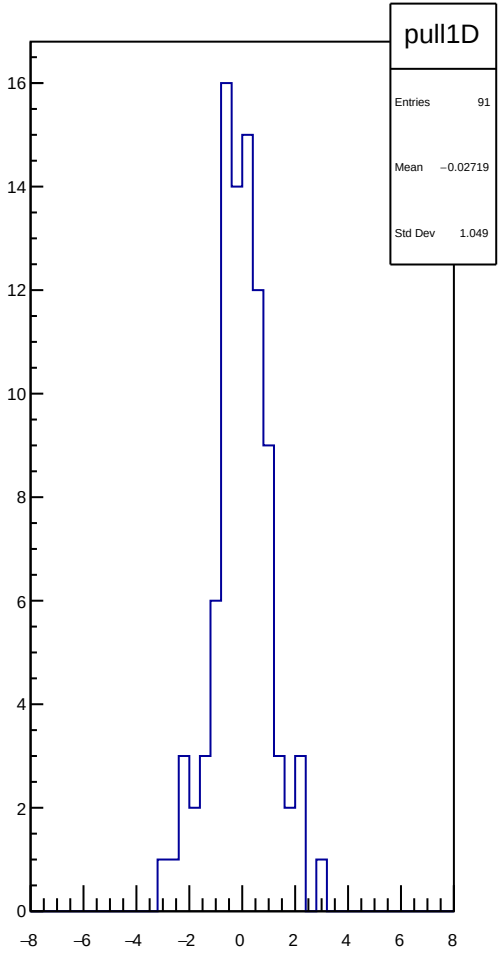

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 6.179e+04 / 90
p0 581.6 ± 0.4406
900
800
700
600
500
400

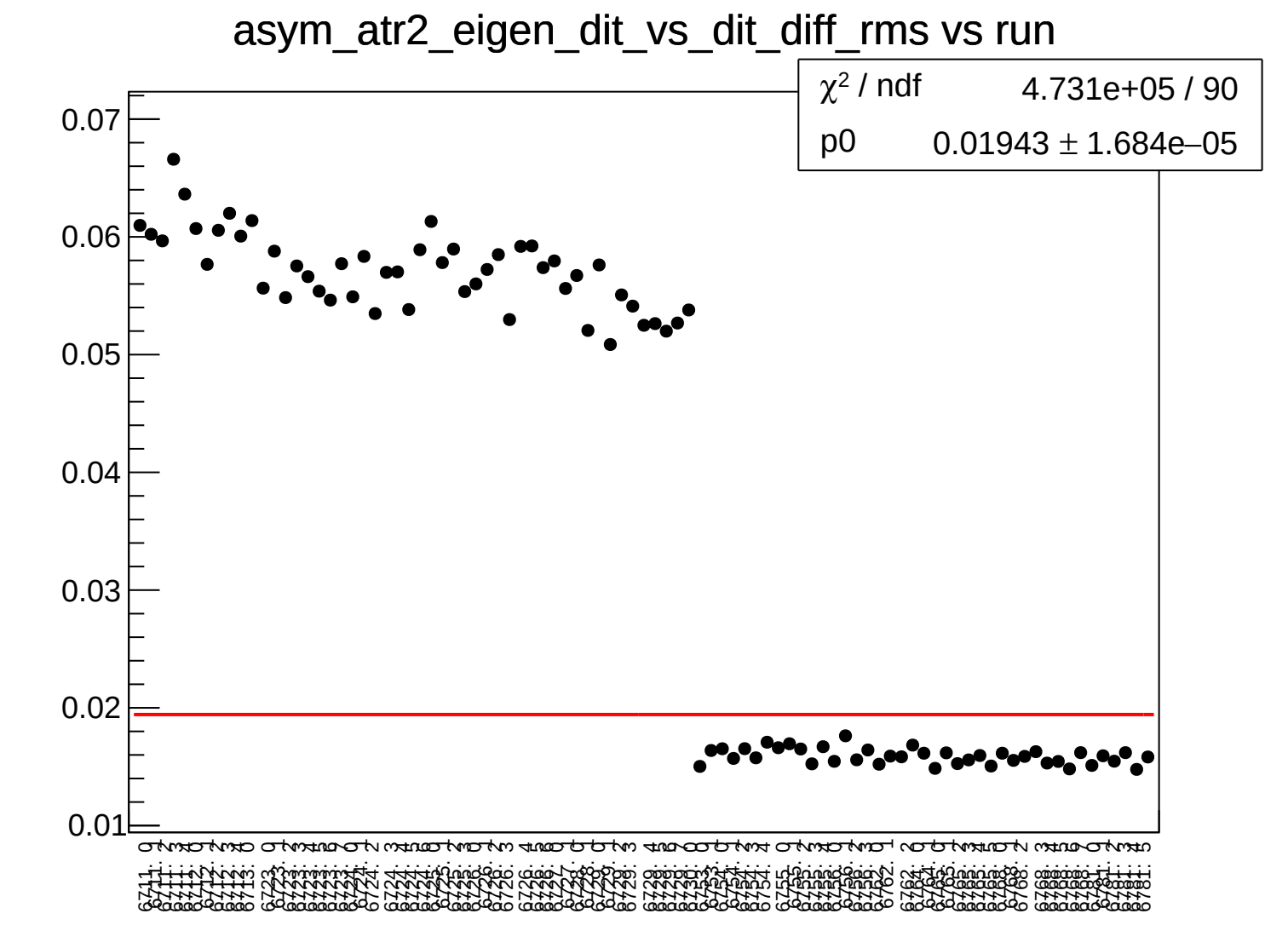

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.85 / 90
p0 0.03453 ± 0.6231
pull
Entries 91
Mean −17.79
Std Dev 0

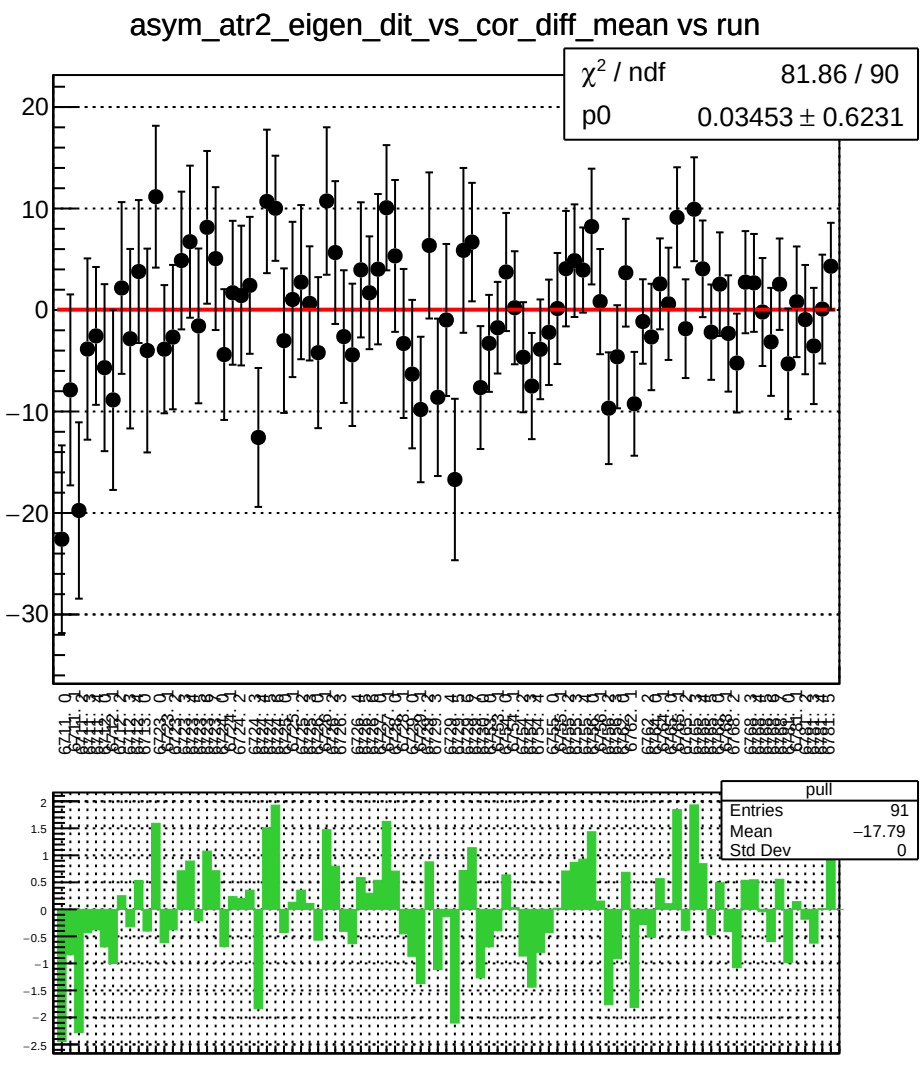

pull1D
Entries 91
Mean −0.03433
Std Dev 0.9478

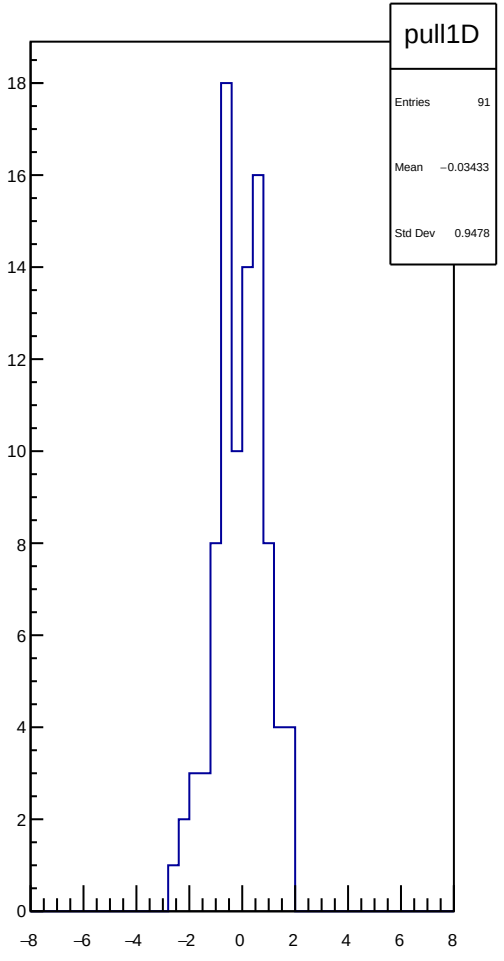

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.179e+04 / 90
p0 581.6 ± 0.4406
900
800
700
600
500
400

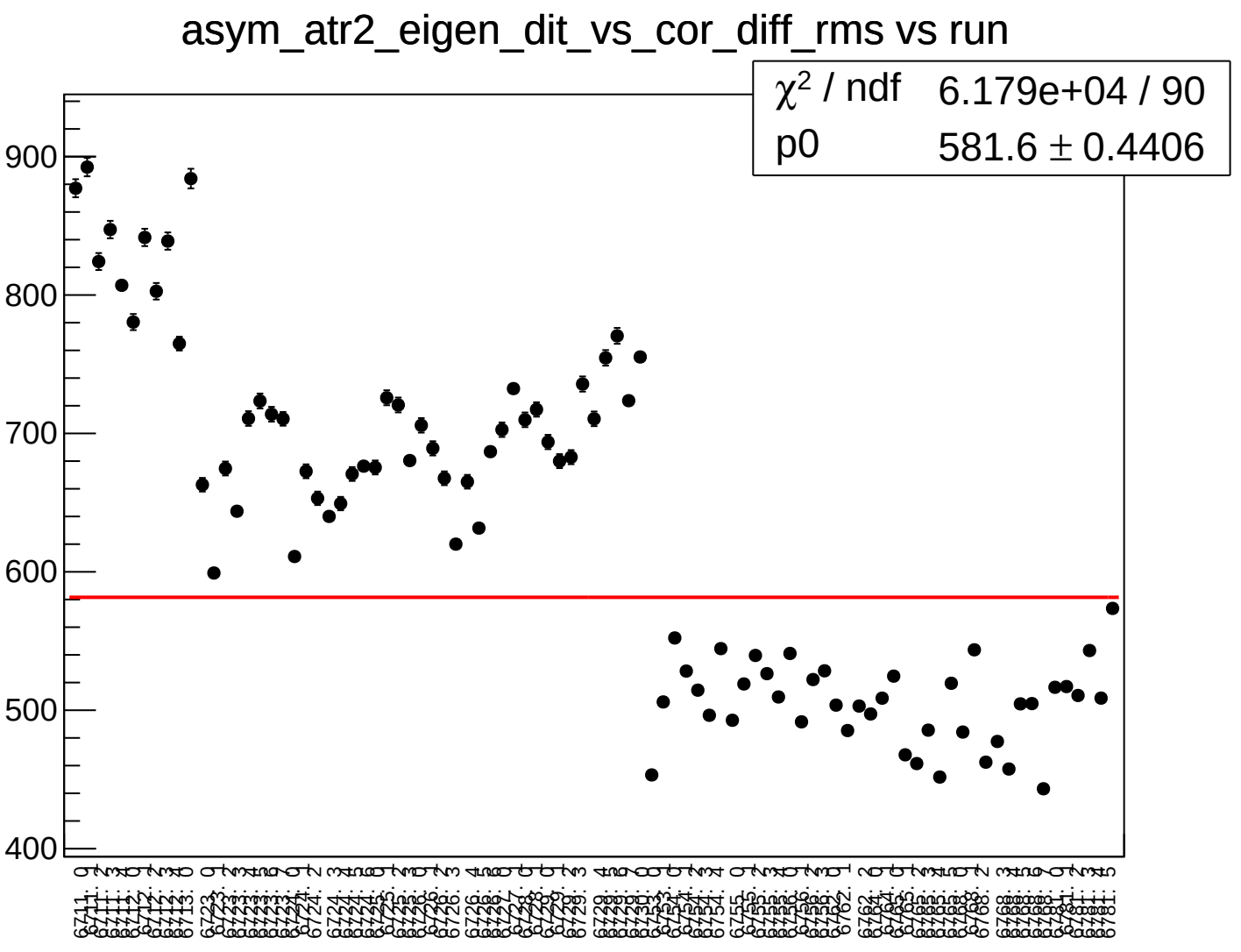

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 100.2 / 90
p0 1.62e−05 ± 2.382e−05
0.002
0.001
0
−0.001
−0.002
pull
Entries 91
Mean −17.2
Std Dev 0
3
2
1
0
−1
−2
−3

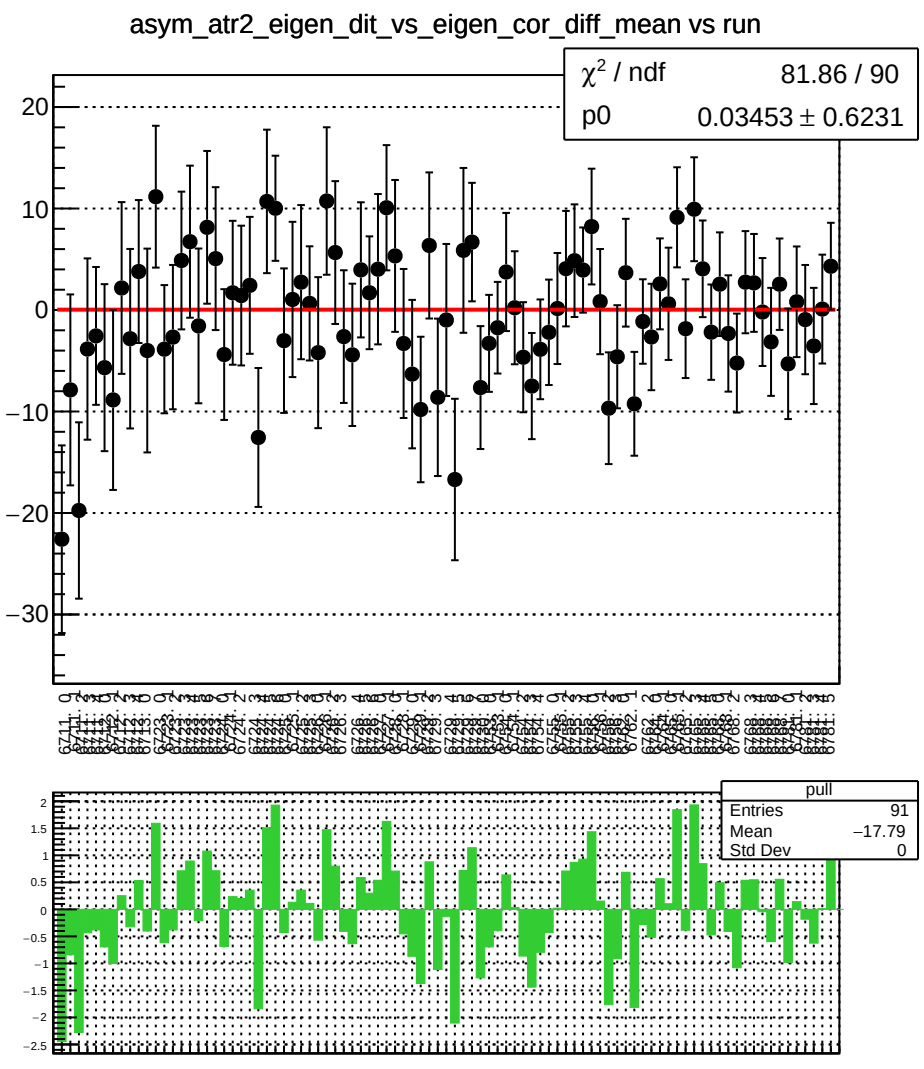

pull1D
Entries 91
Mean −0.02719
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

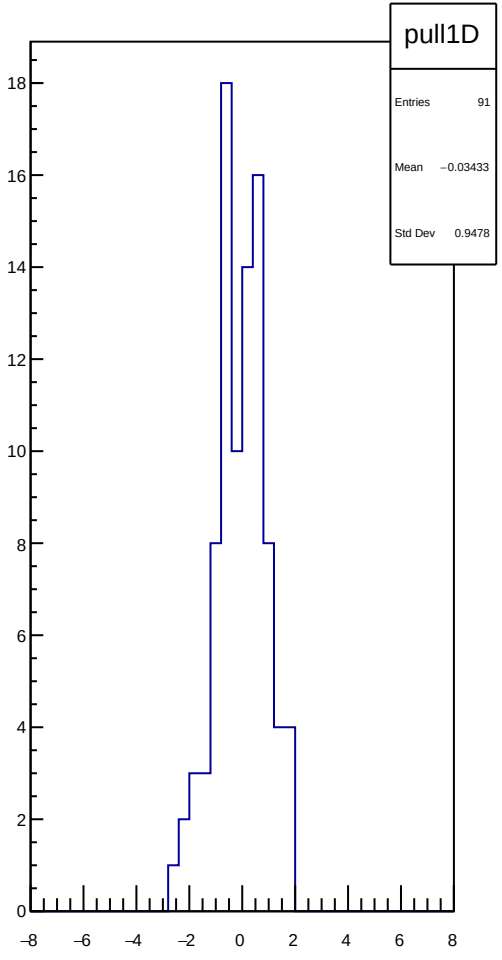

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.731e+05 / 90
p0 0.01943 ± 1.684e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

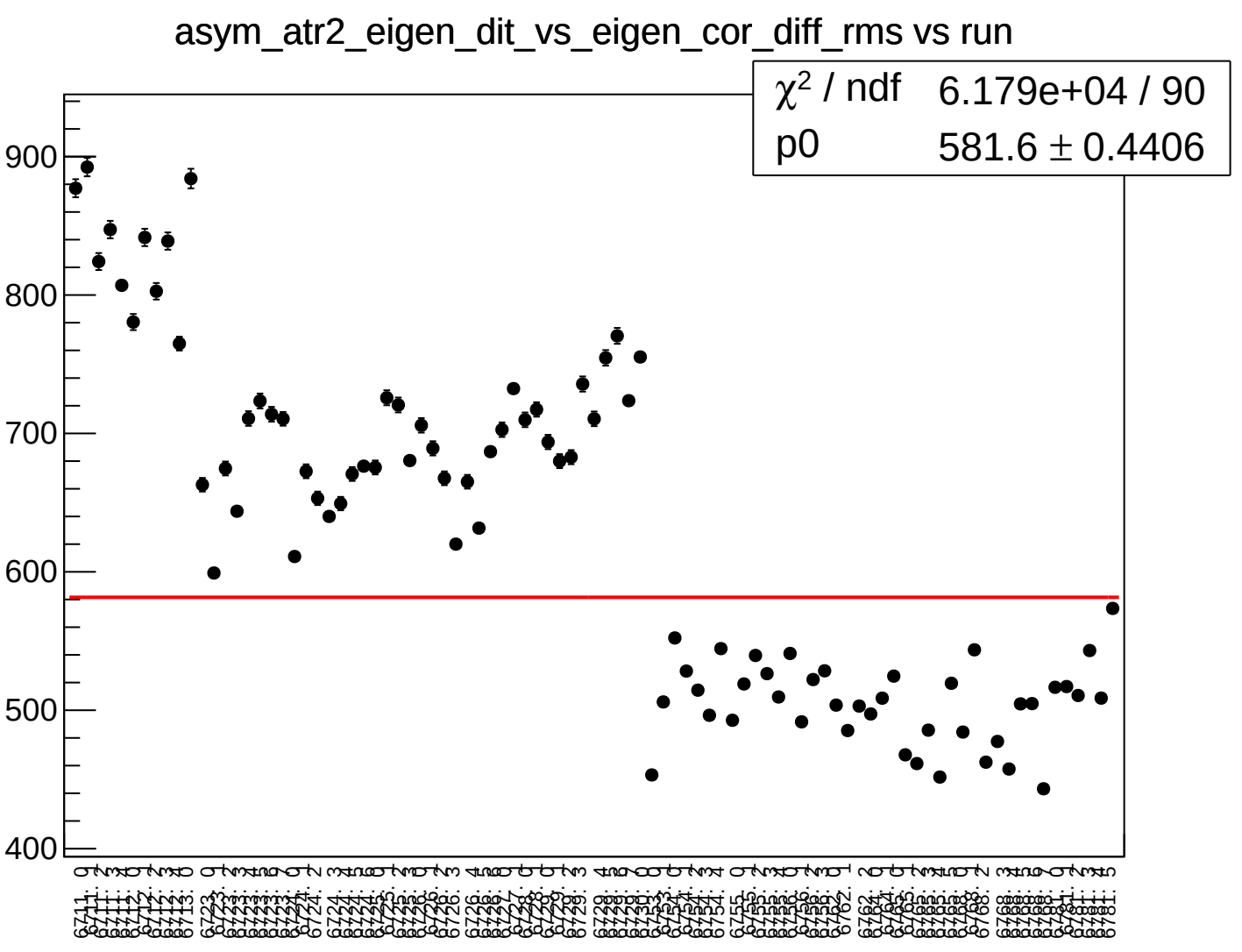

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.86 / 90
p0 0.03453 ± 0.6231
pull
Entries 91
Mean −17.79
Std Dev 0

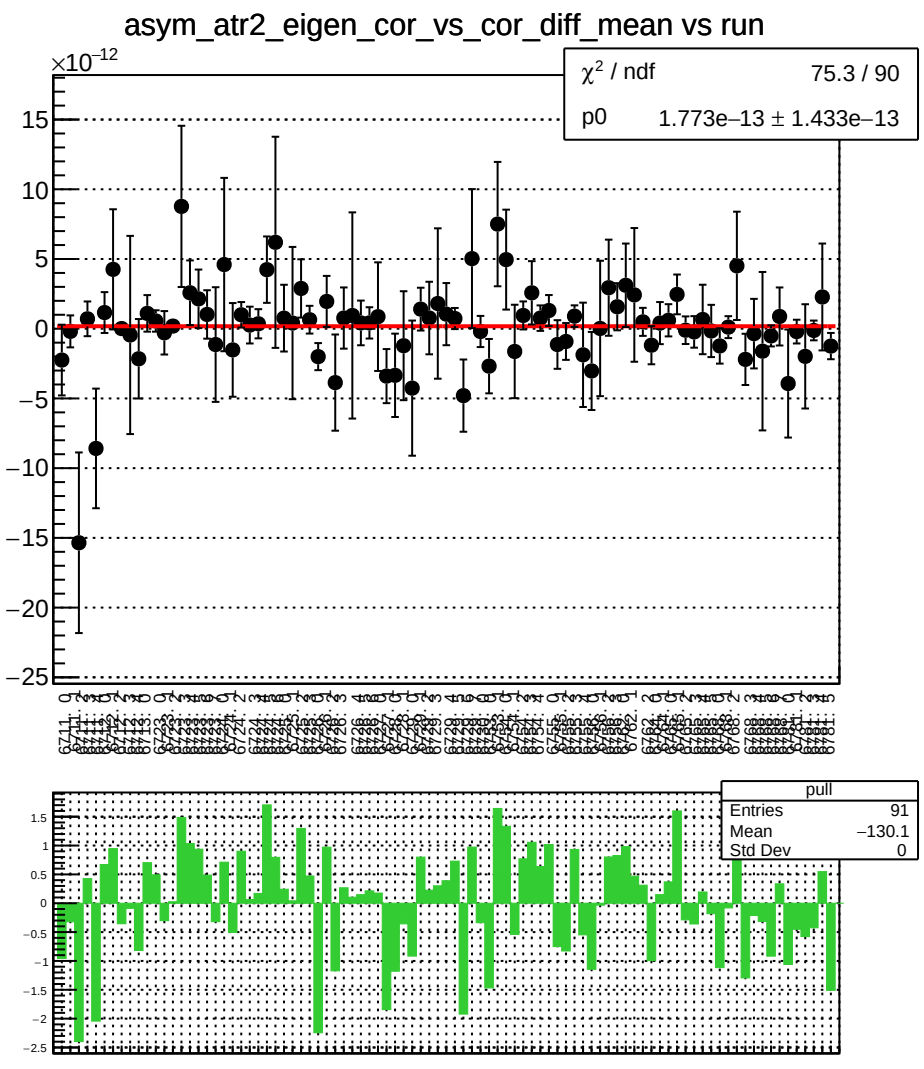

pull1D
Entries 91
Mean −0.03433
Std Dev 0.9478

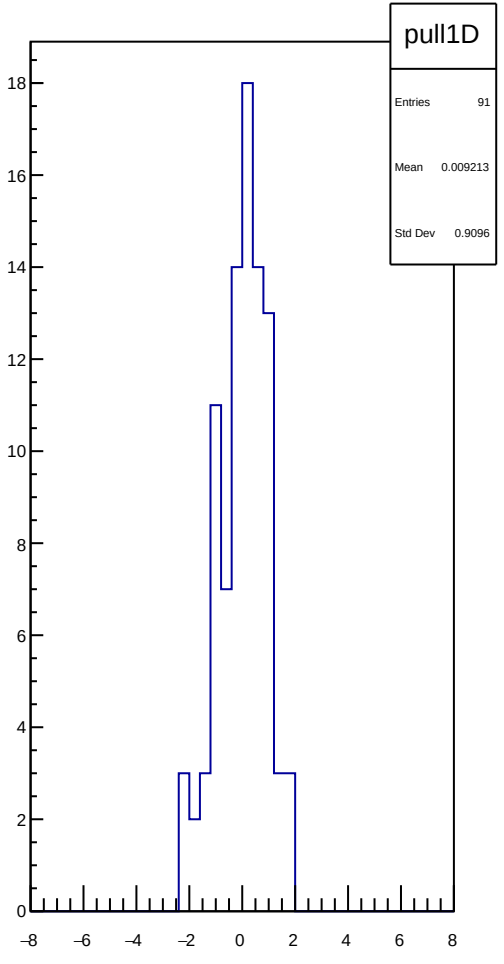

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.179e+04 / 90
p0 581.6 ± 0.4406
900
800
700
600
500
400


asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.86 / 90
p0 0.03453 ± 0.6231
pull
Entries 91
Mean −17.79
Std Dev 0

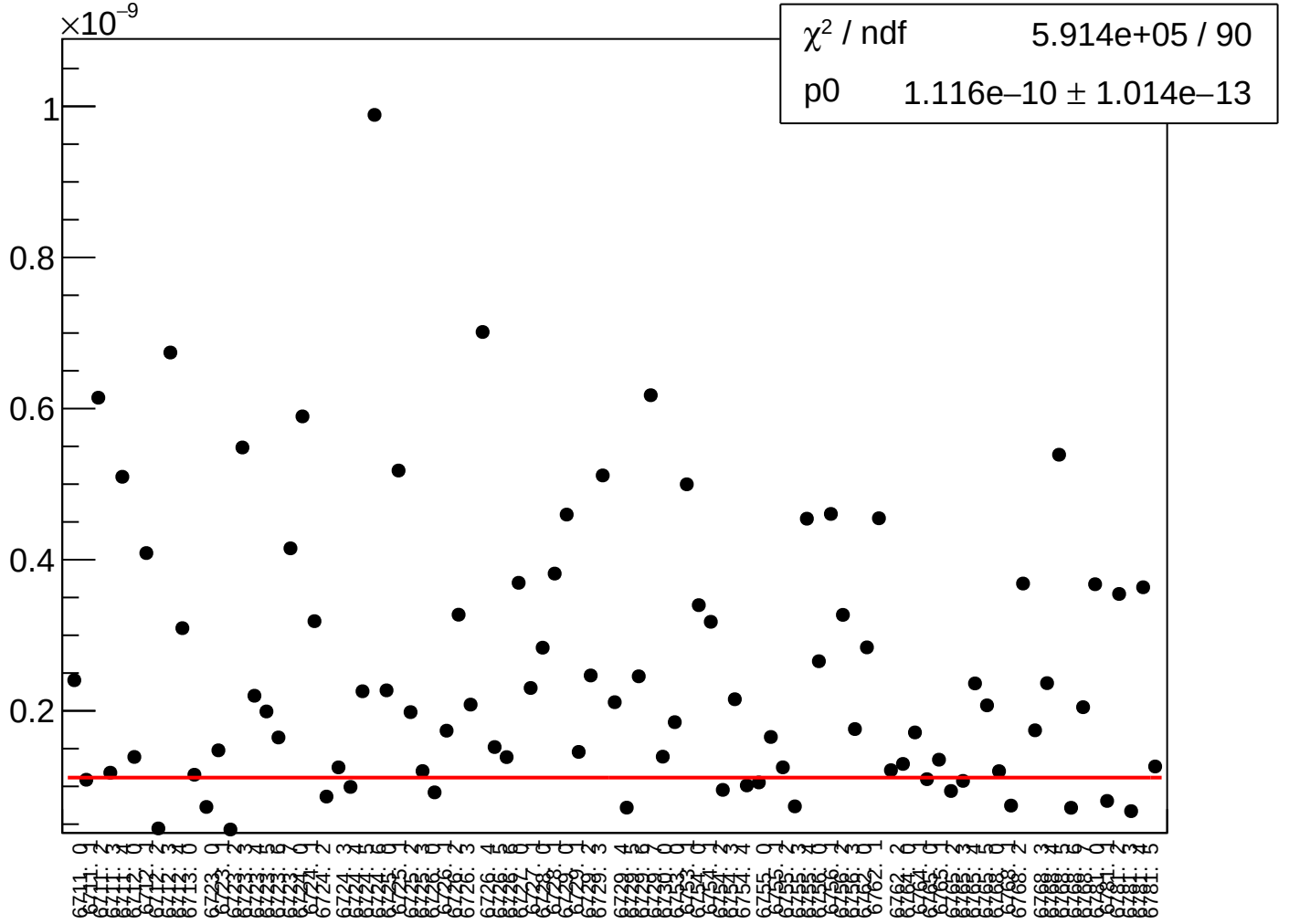

pull1D
Entries 91
Mean −0.03433
Std Dev 0.9478

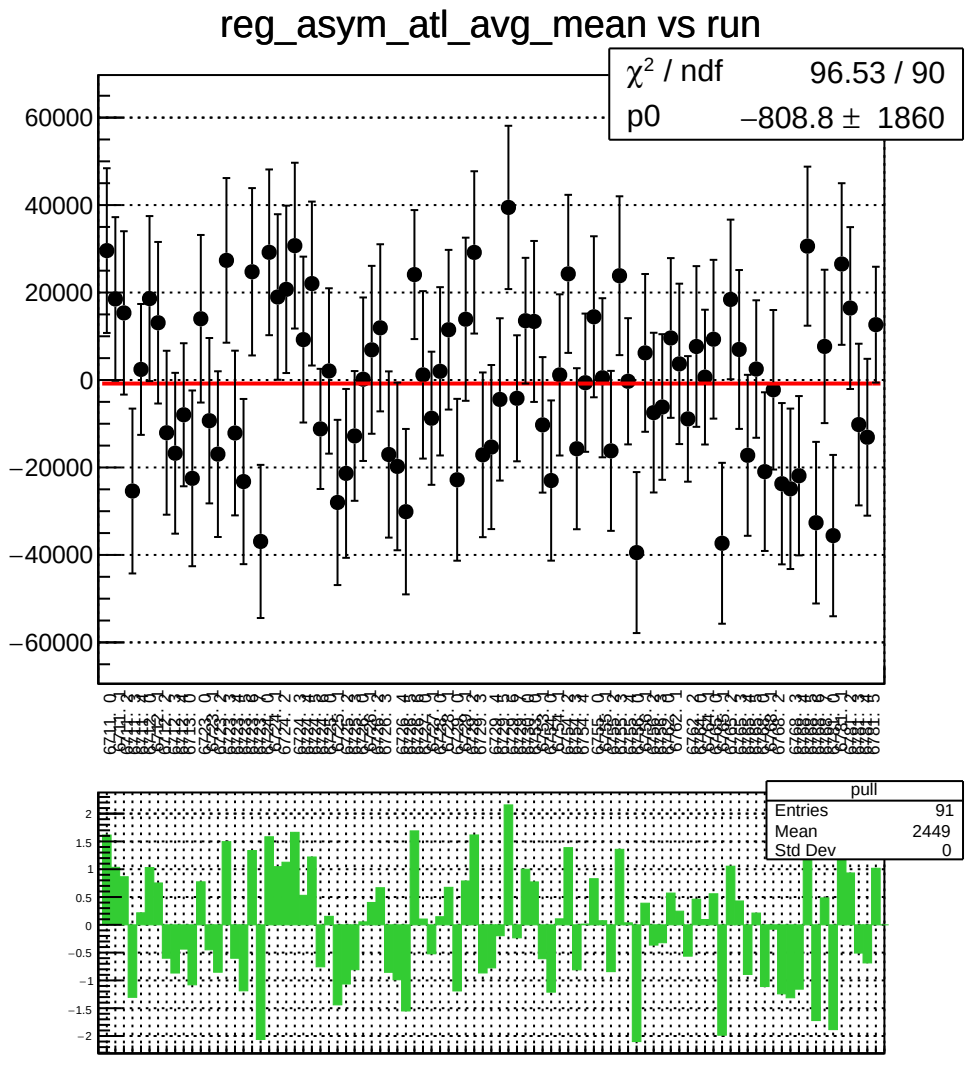

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.179e+04 / 90
p0 581.6 ± 0.4406
900
800
700
600
500
400

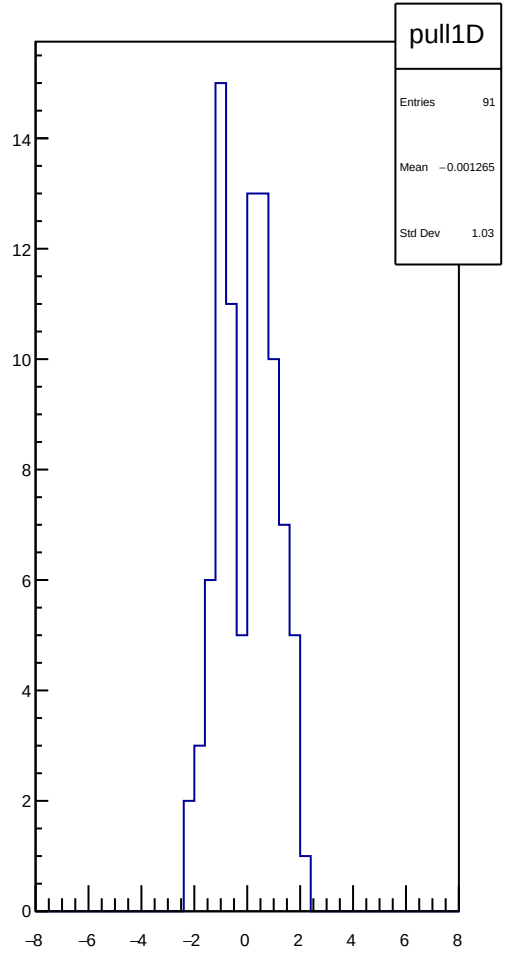

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.3 / 90
p0 1.773e−13 ± 1.433e−13
pull
Entries 91
Mean −130.1
Std Dev 0

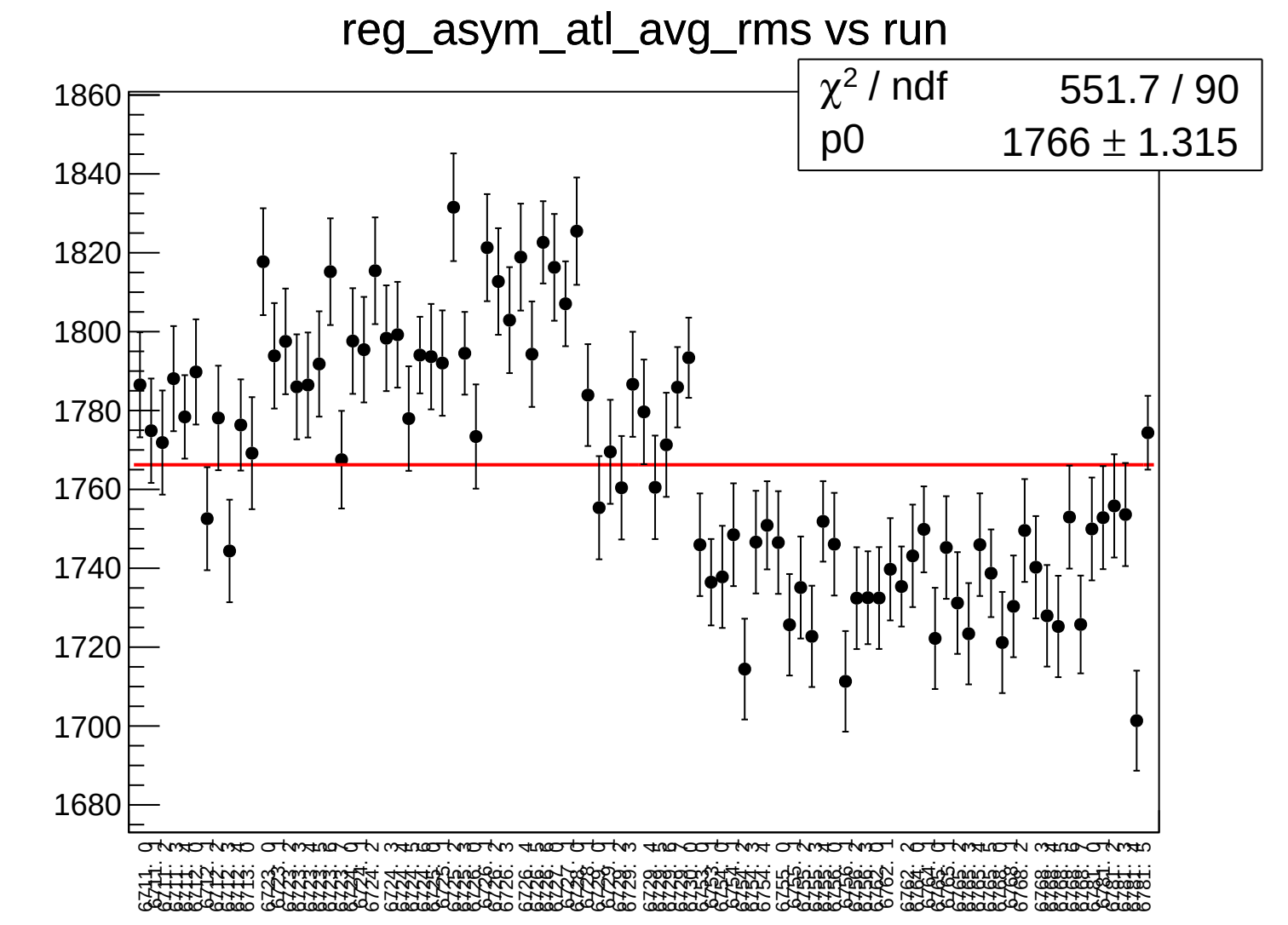

pull1D
Entries 91
Mean 0.009213
Std Dev 0.9096

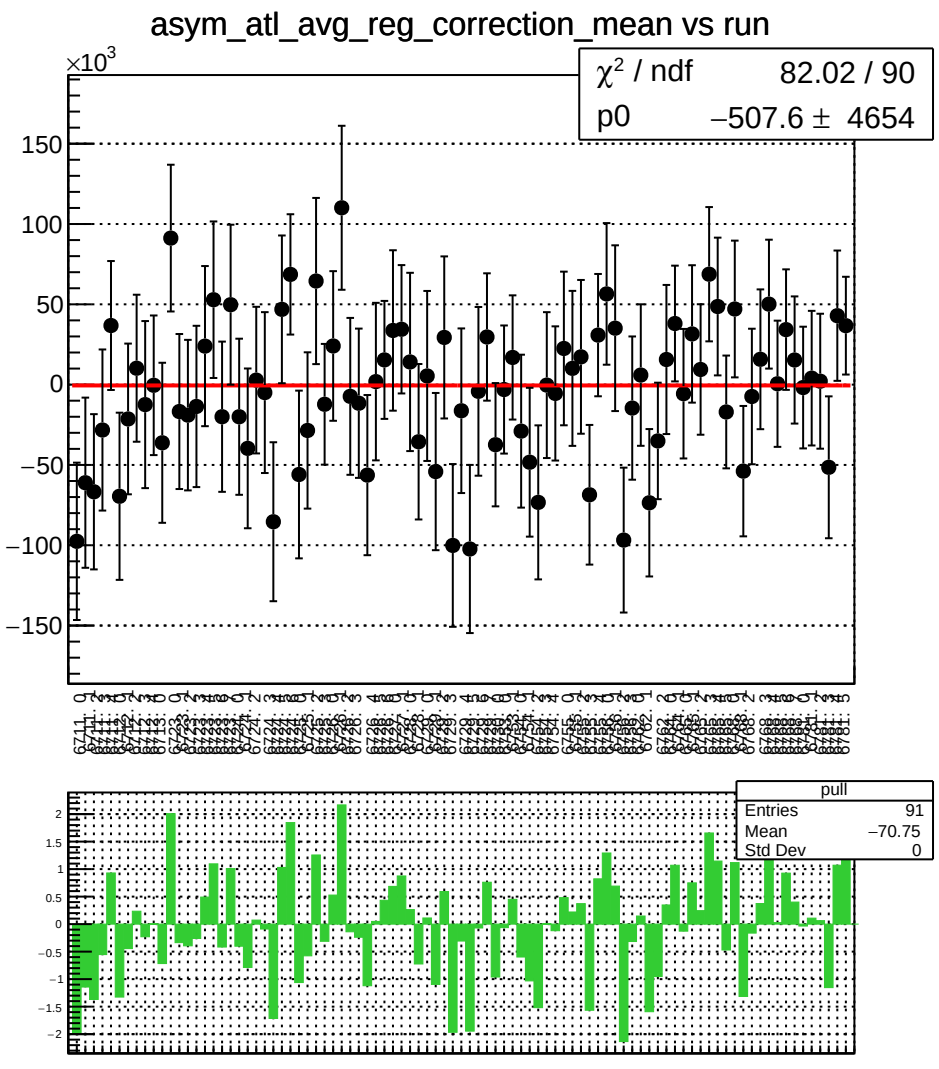
asym_atr2_eigen_cor_vs_cor_diff_rms vs run

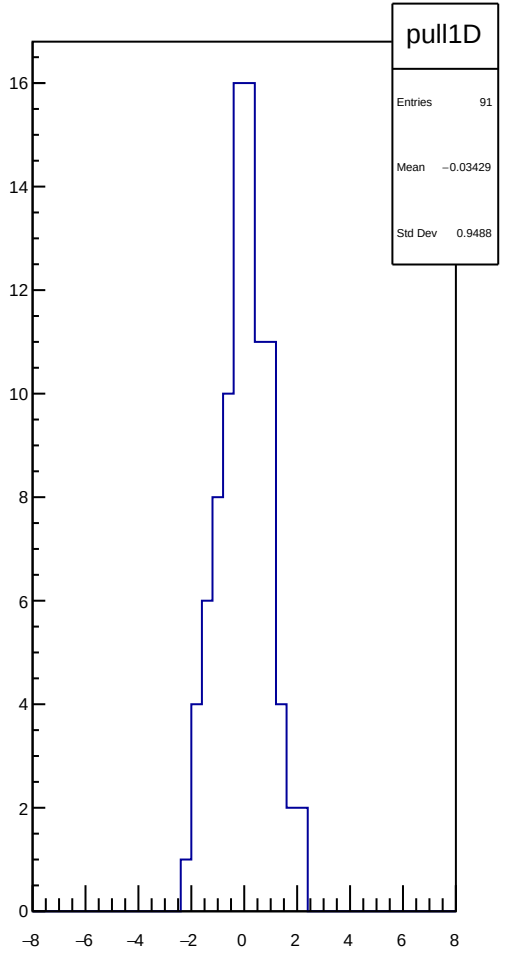


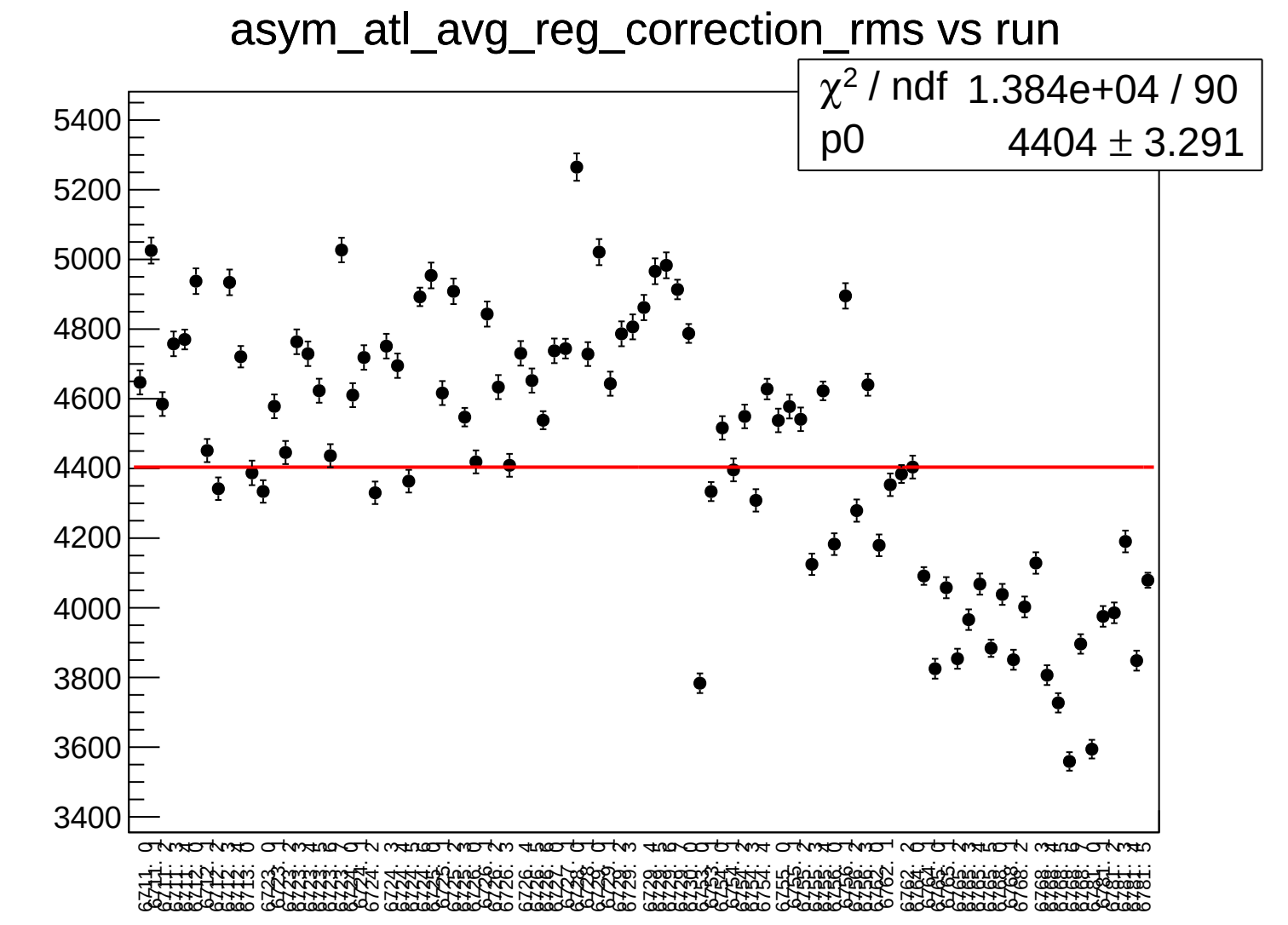

reg_asym_atl_avg_mean vs run
χ² / ndf 96.53 / 90
p0 −808.8 ± 1860
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 2449
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

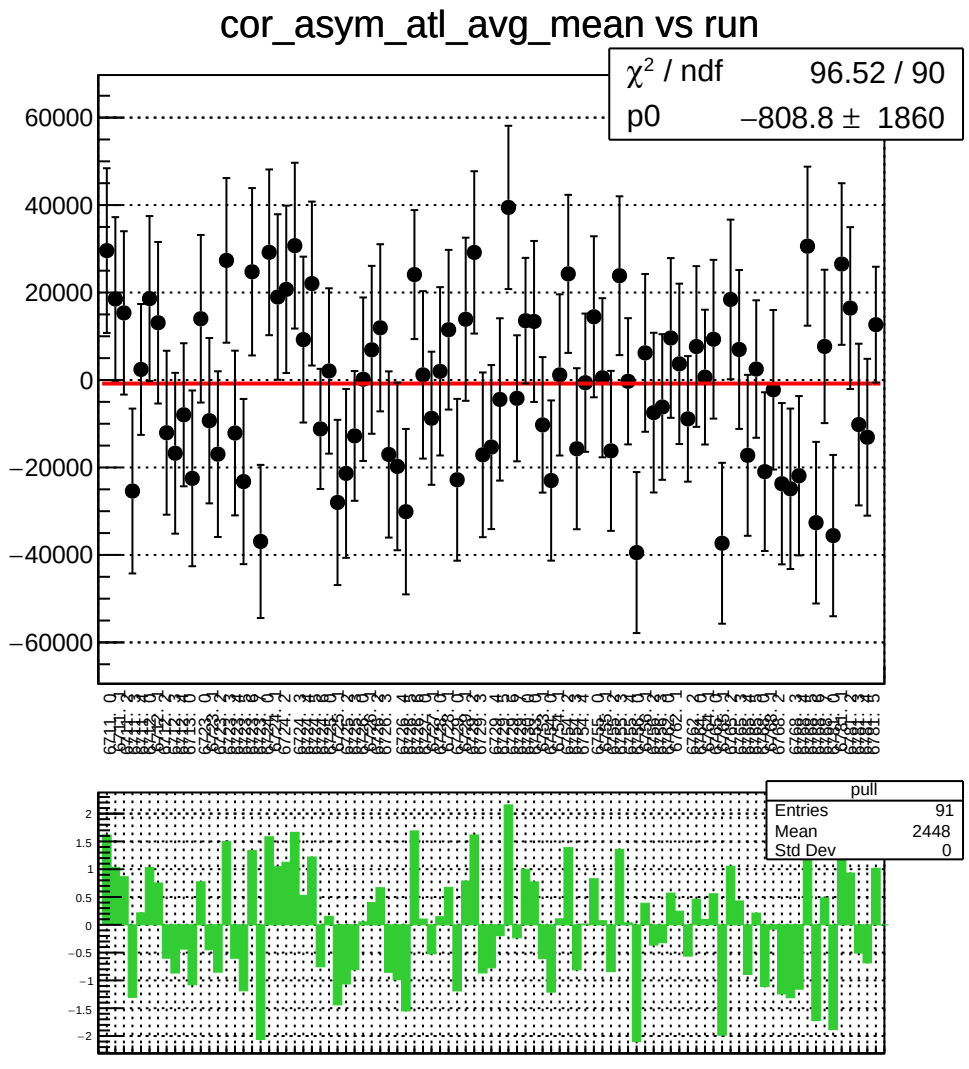

pull1D
Entries 91
Mean −0.001265
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

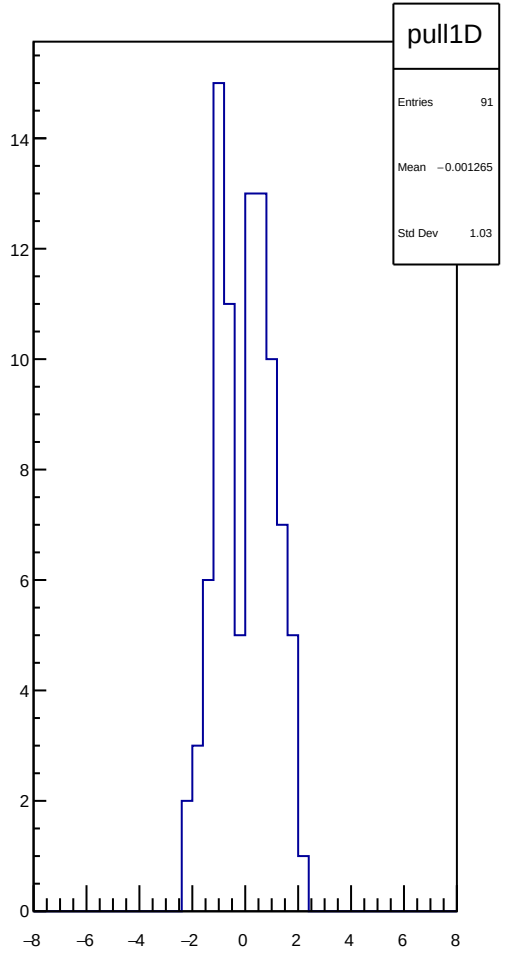

reg_asym_atl_avg_rms vs run
χ^2 / ndf 551.7 / 90
p0 1766 ± 1.315
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

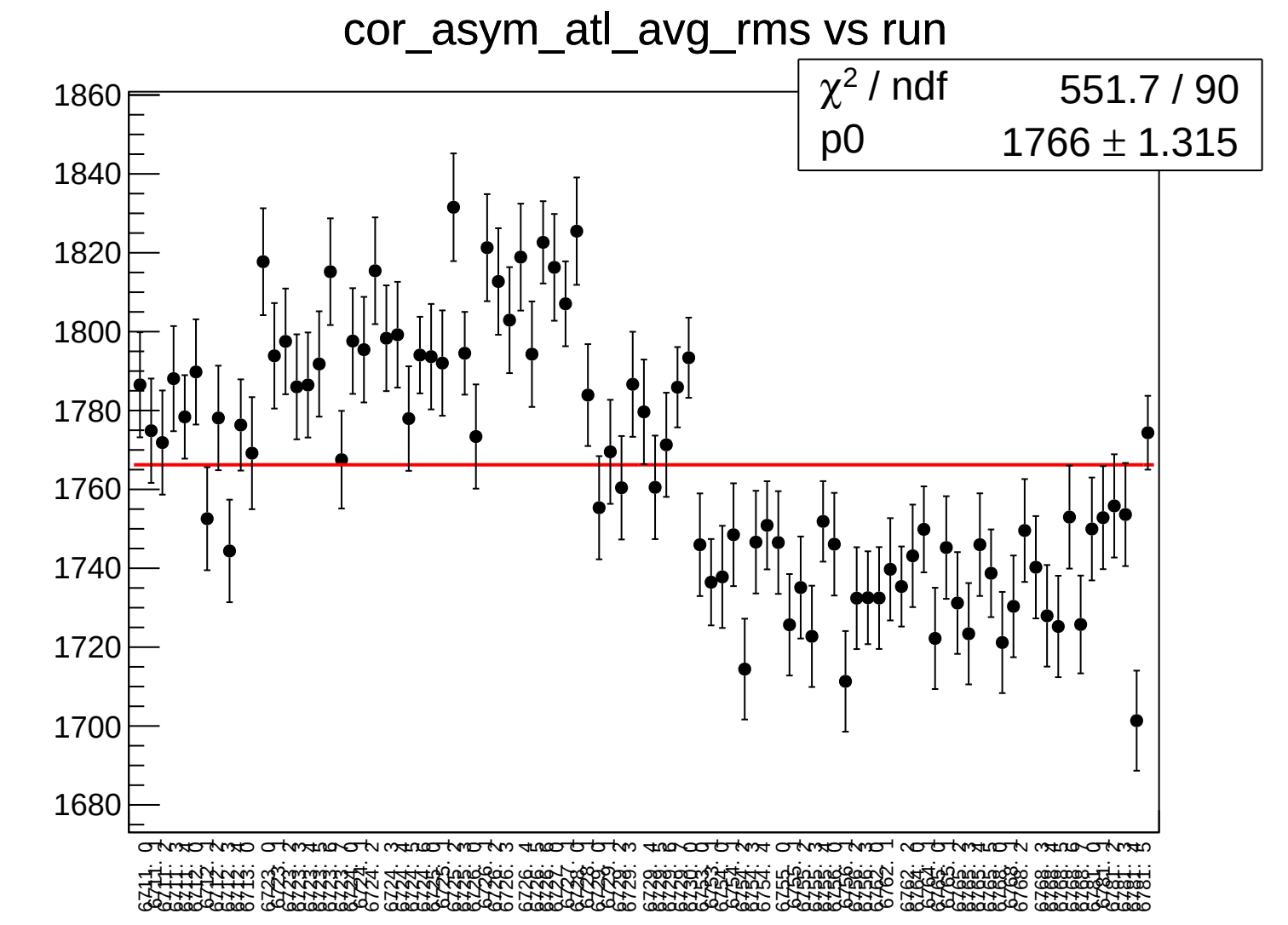

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 82.02 / 90
p0 −507.6 ± 4654
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −70.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

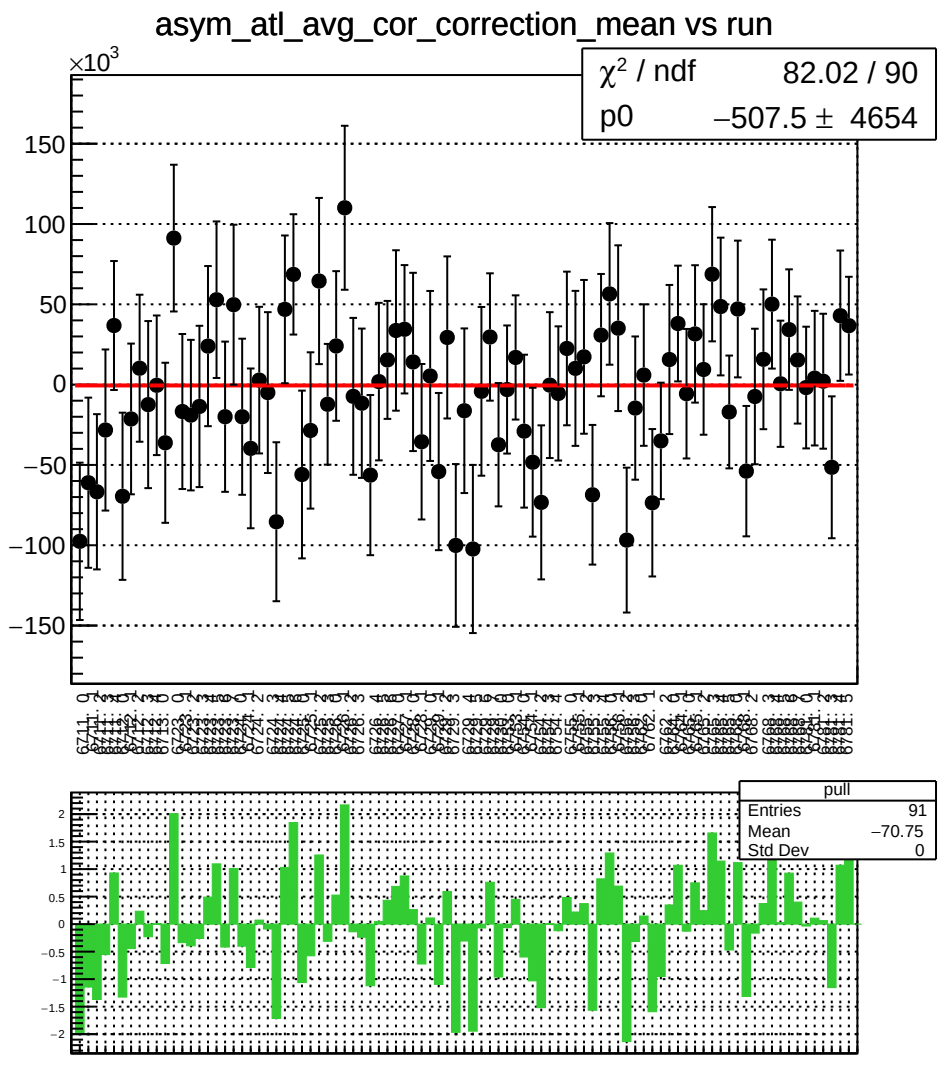

pull1D
Entries 91
Mean −0.03429
Std Dev 0.9488
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

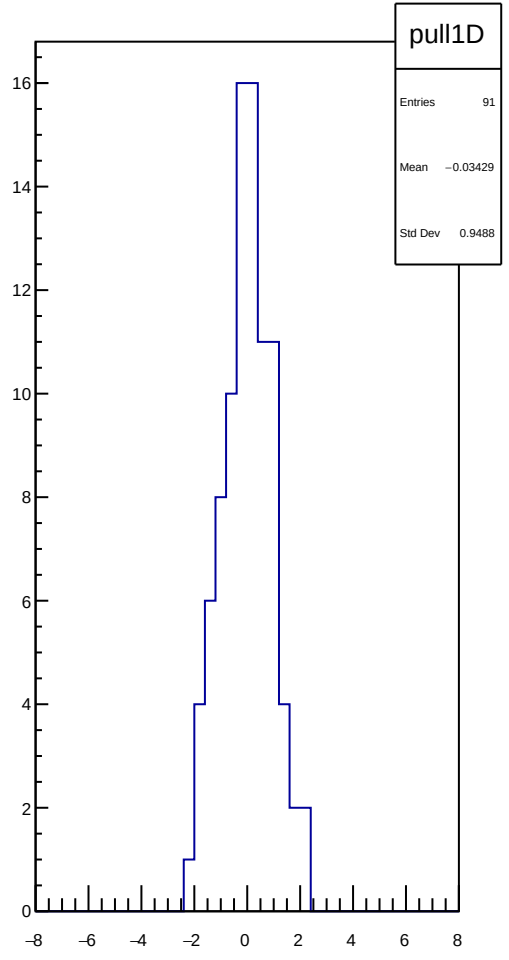

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 1.384e+04 / 90
p0 4404 ± 3.291
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

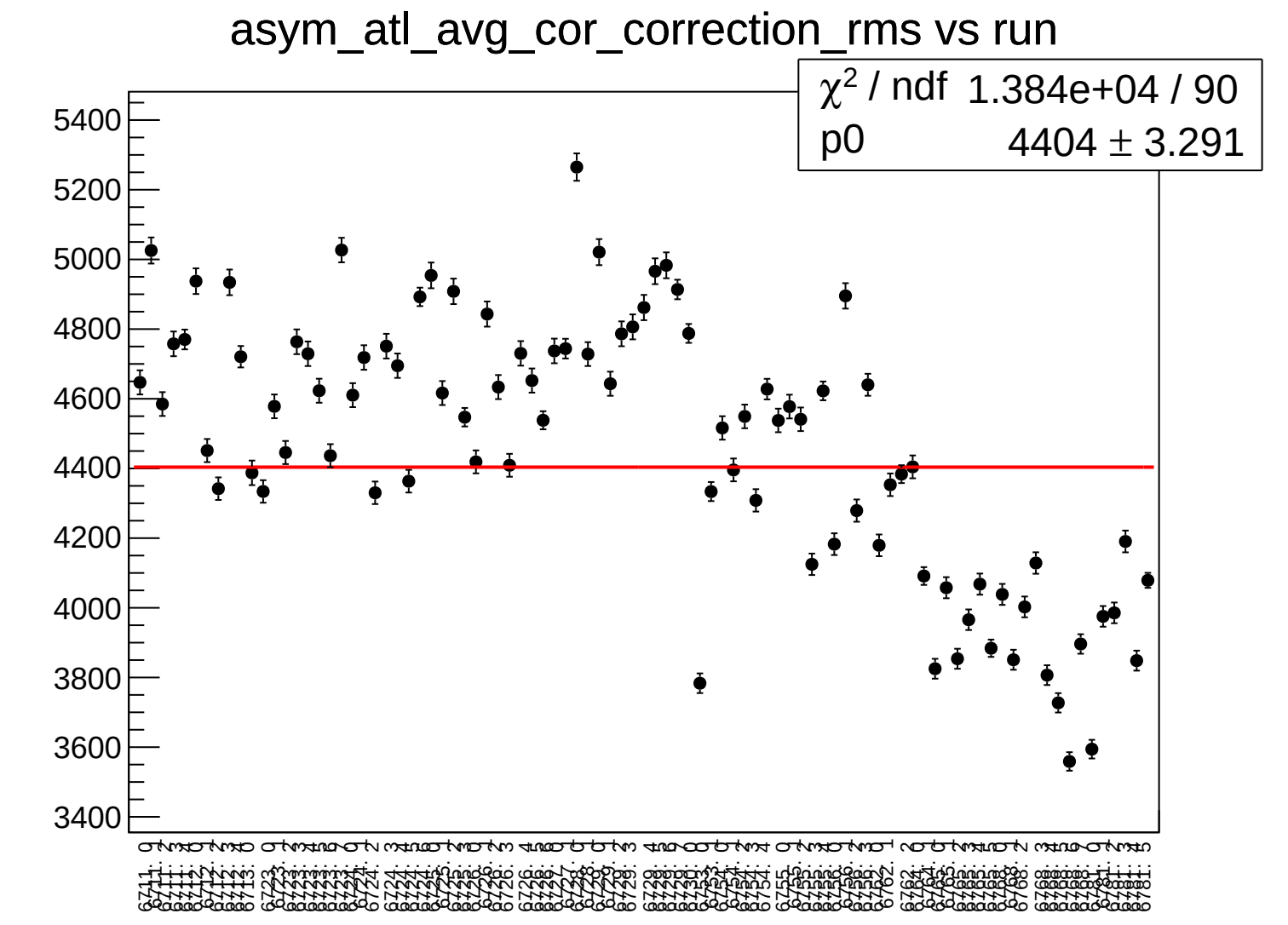

cor_asym_atl_avg_mean vs run
χ² / ndf 96.52 / 90
p0 −808.8 ± 1860
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 2448
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

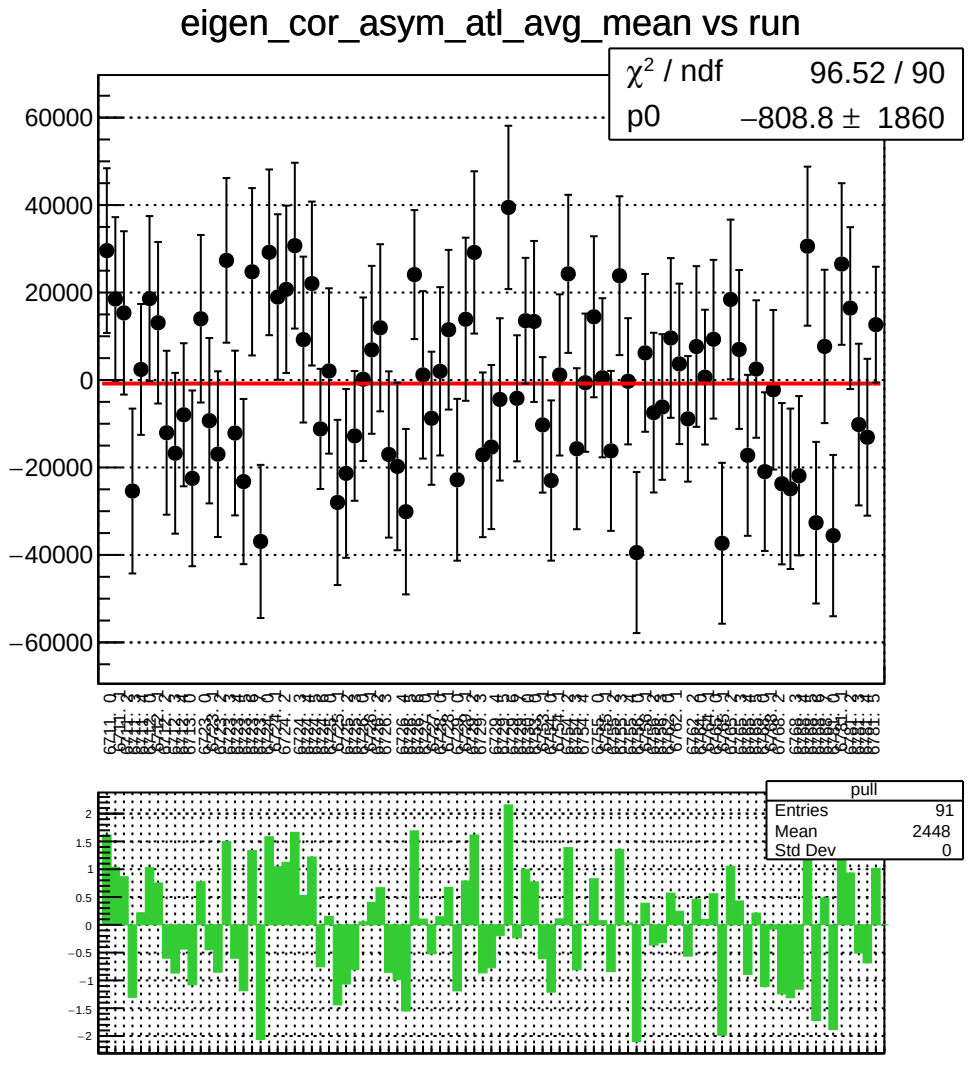

pull1D
Entries 91
Mean −0.001265
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

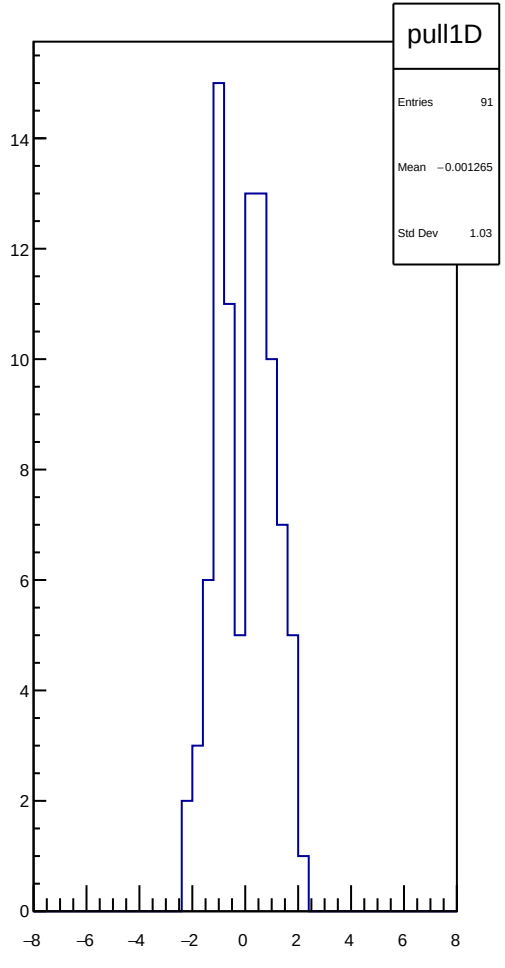

cor_asym_atl_avg_rms vs run
χ^2 / ndf 551.7 / 90
p0 1766 ± 1.315
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

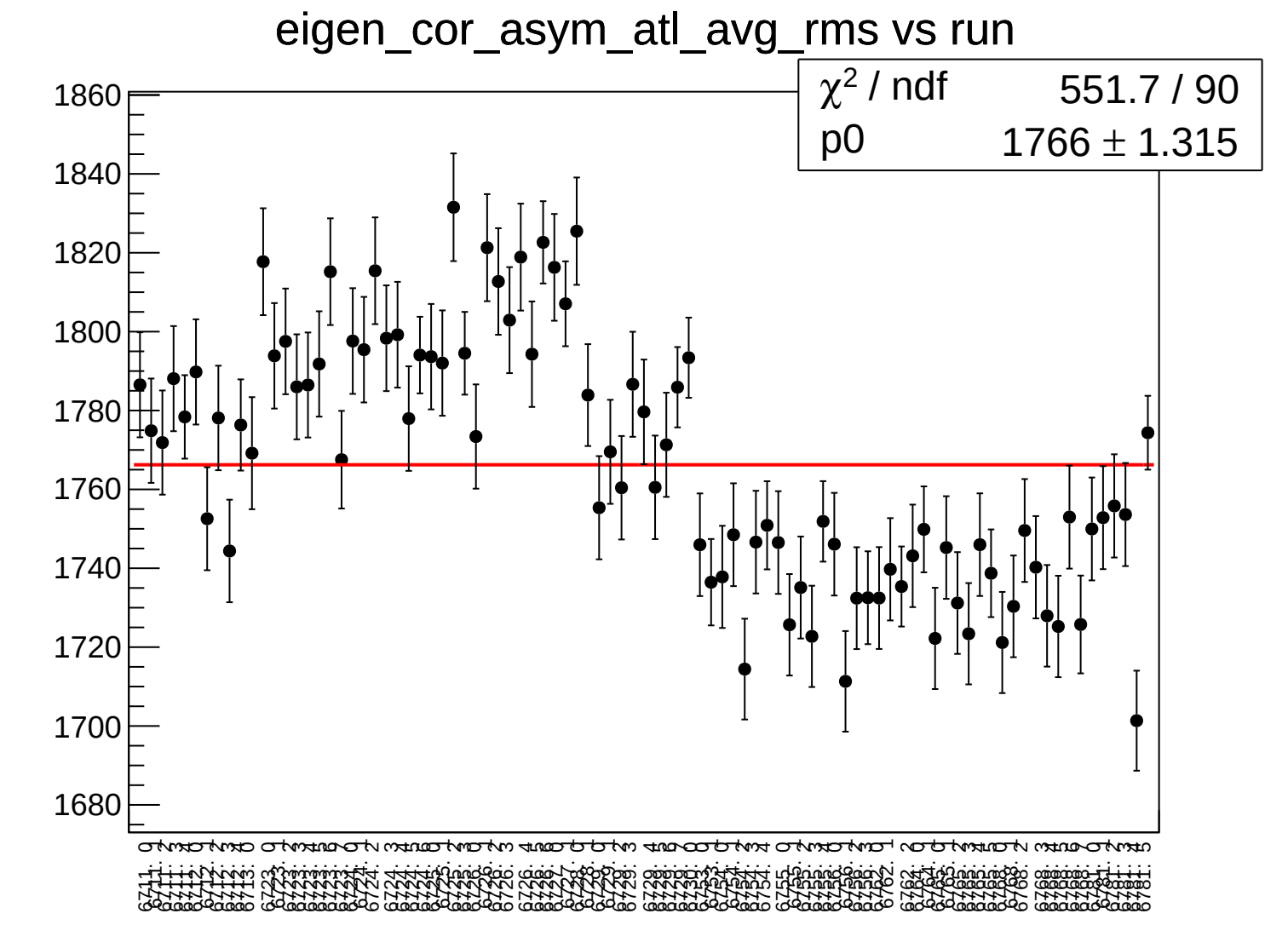

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 82.02 / 90
p0 −507.5 ± 4654
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −70.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

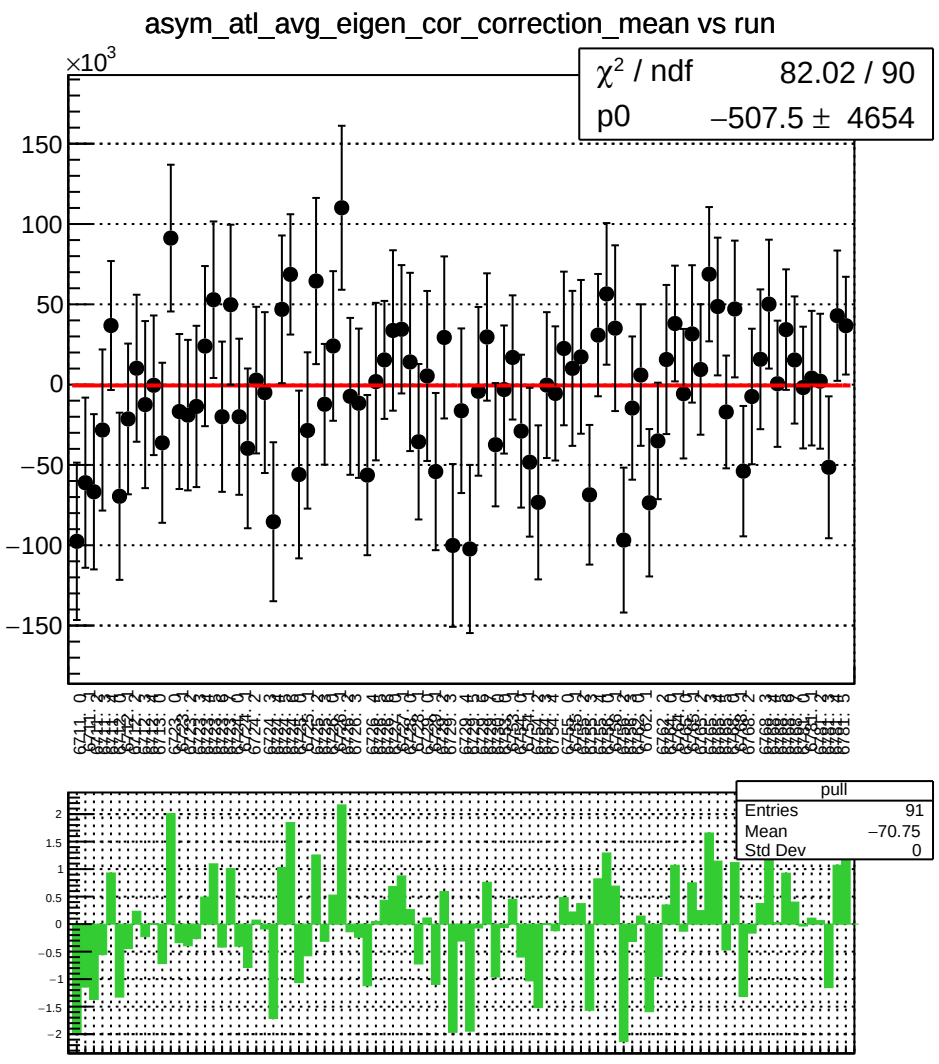

pull1D
Entries 91
Mean −0.03429
Std Dev 0.9488
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

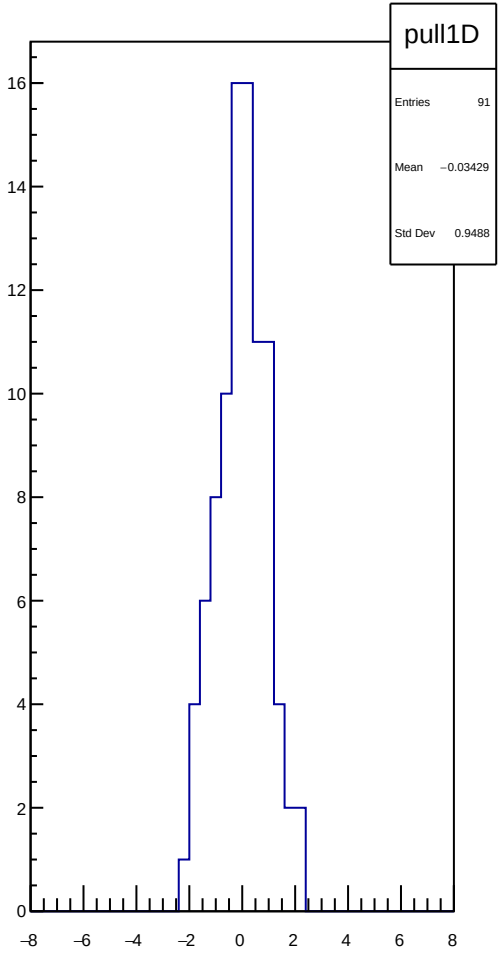

asym_atl_avg_cor_correction_rms vs run
χ^2 / ndf 1.384e+04 / 90
p0 4404 ± 3.291
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

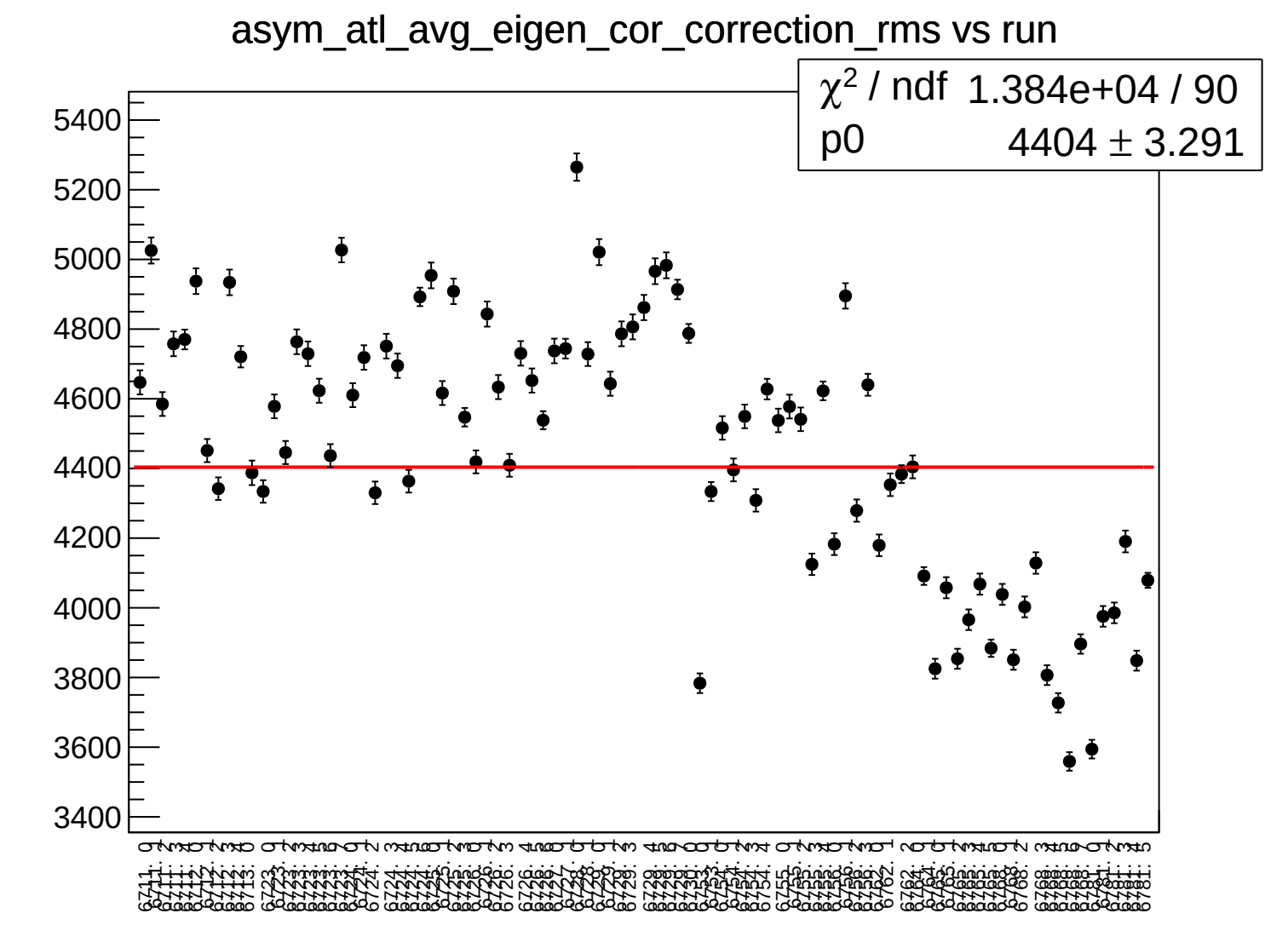

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 96.52 / 90
p0 −808.8 ± 1860
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 2448
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

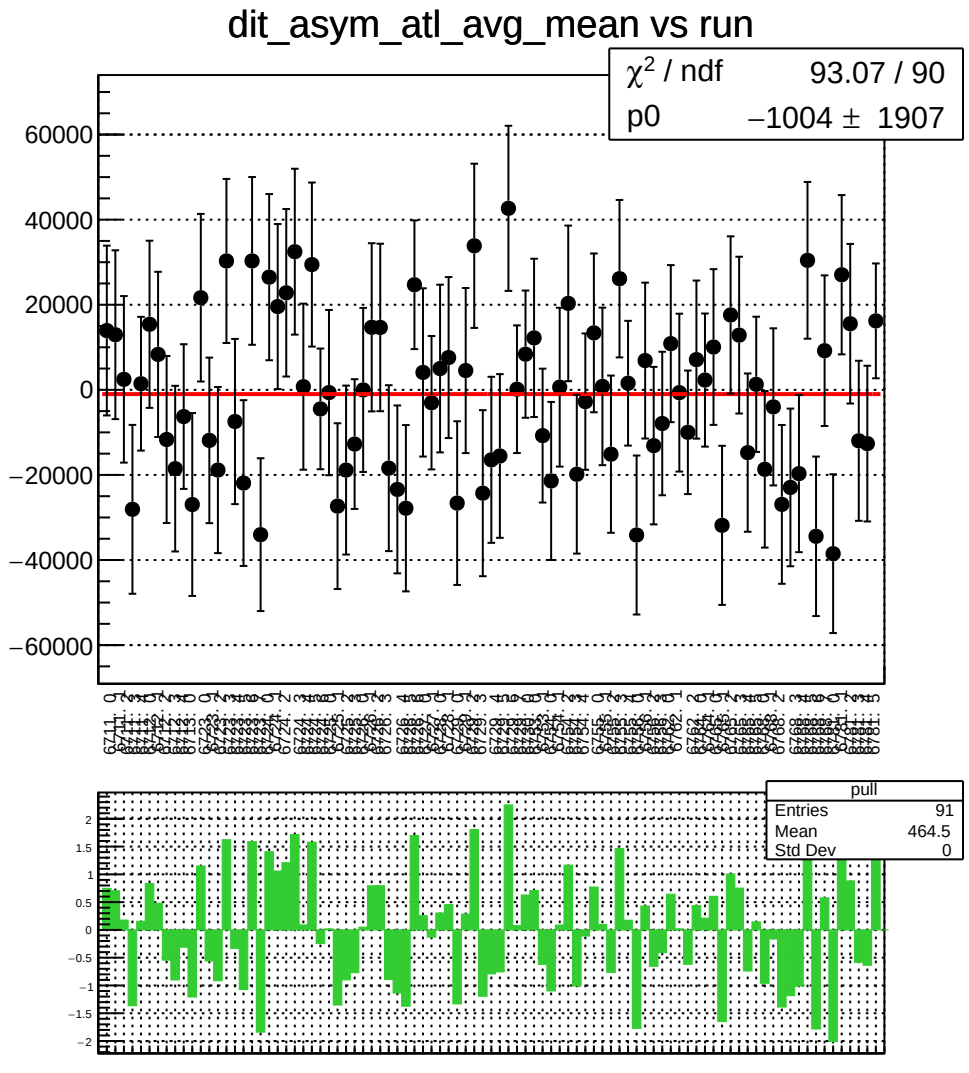

pull1D
Entries 91
Mean −0.001265
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

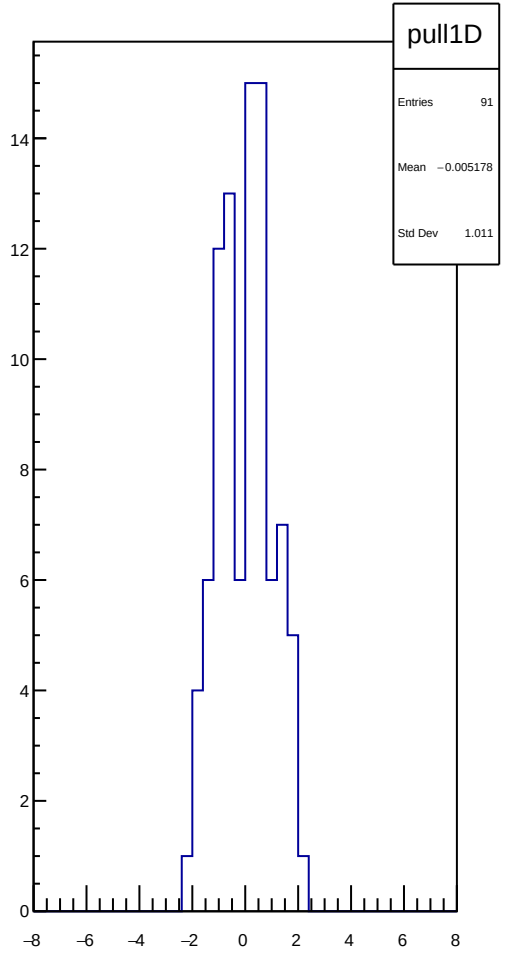

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 551.7 / 90
p0 1766 ± 1.315
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

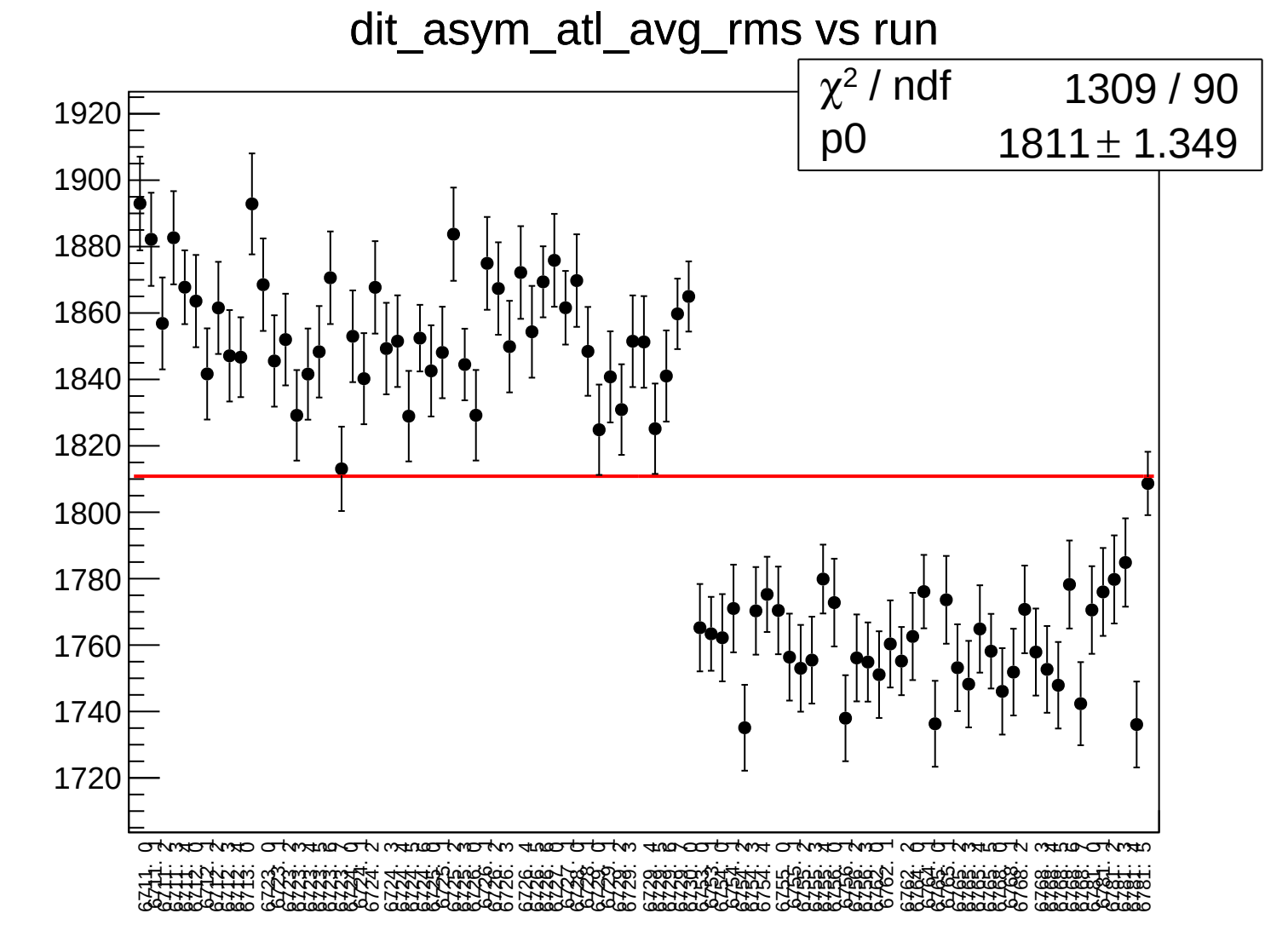

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.02 / 90
p0 −507.5 ± 4654
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −70.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

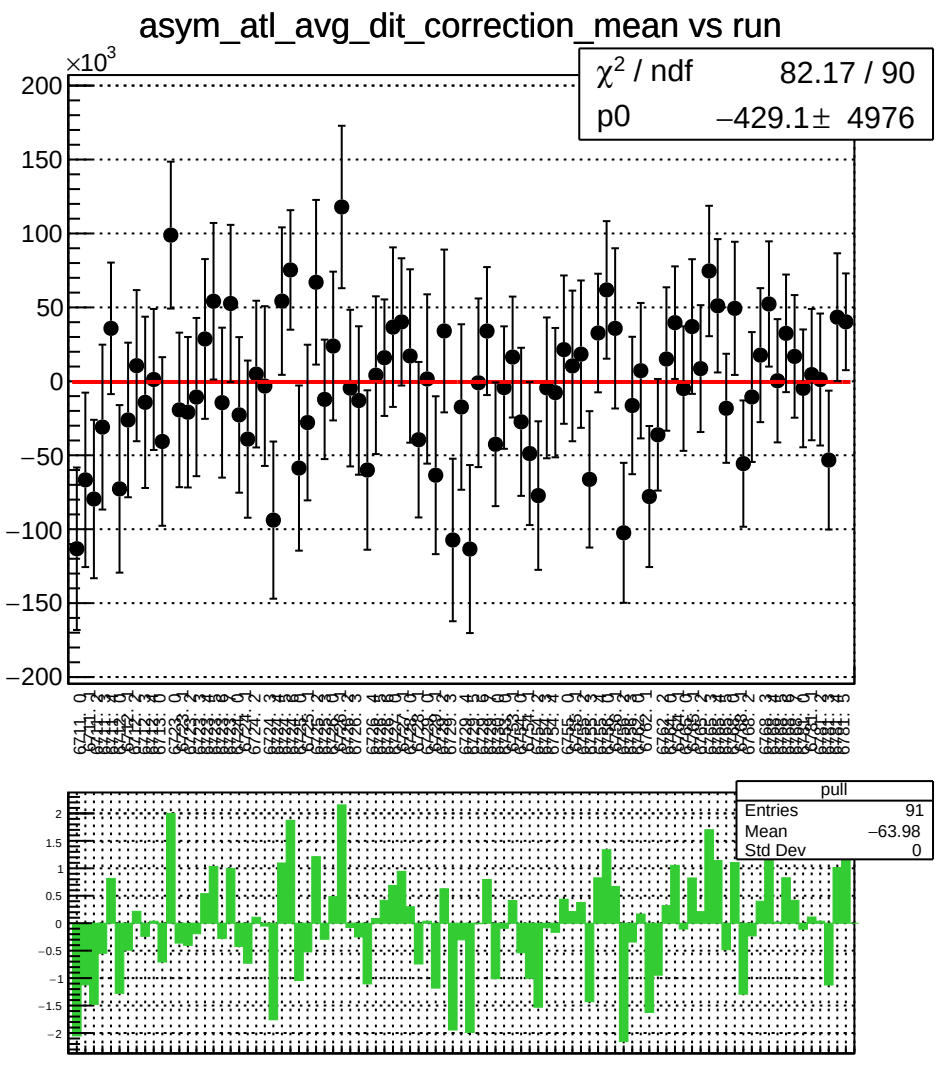

pull1D
Entries 91
Mean −0.03429
Std Dev 0.9488
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

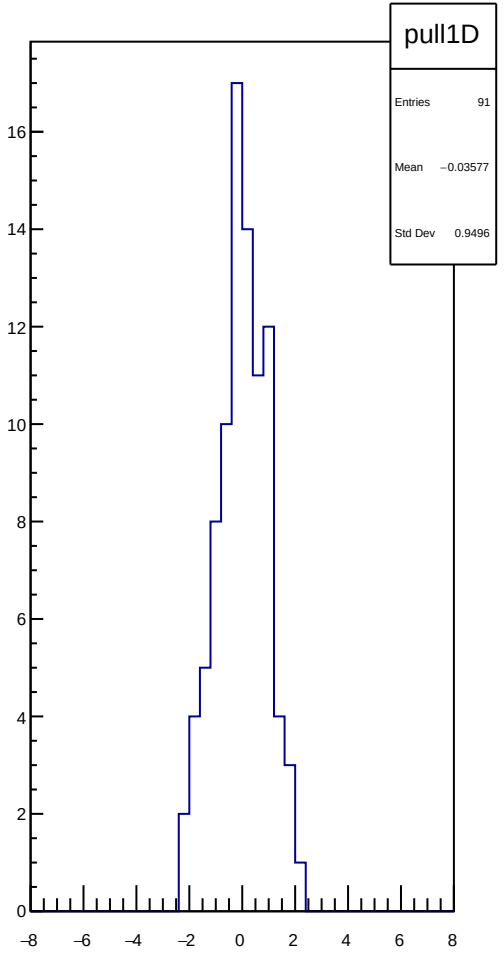

asym_atl_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 1.384e+04 / 90
p0 4404 ± 3.291
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

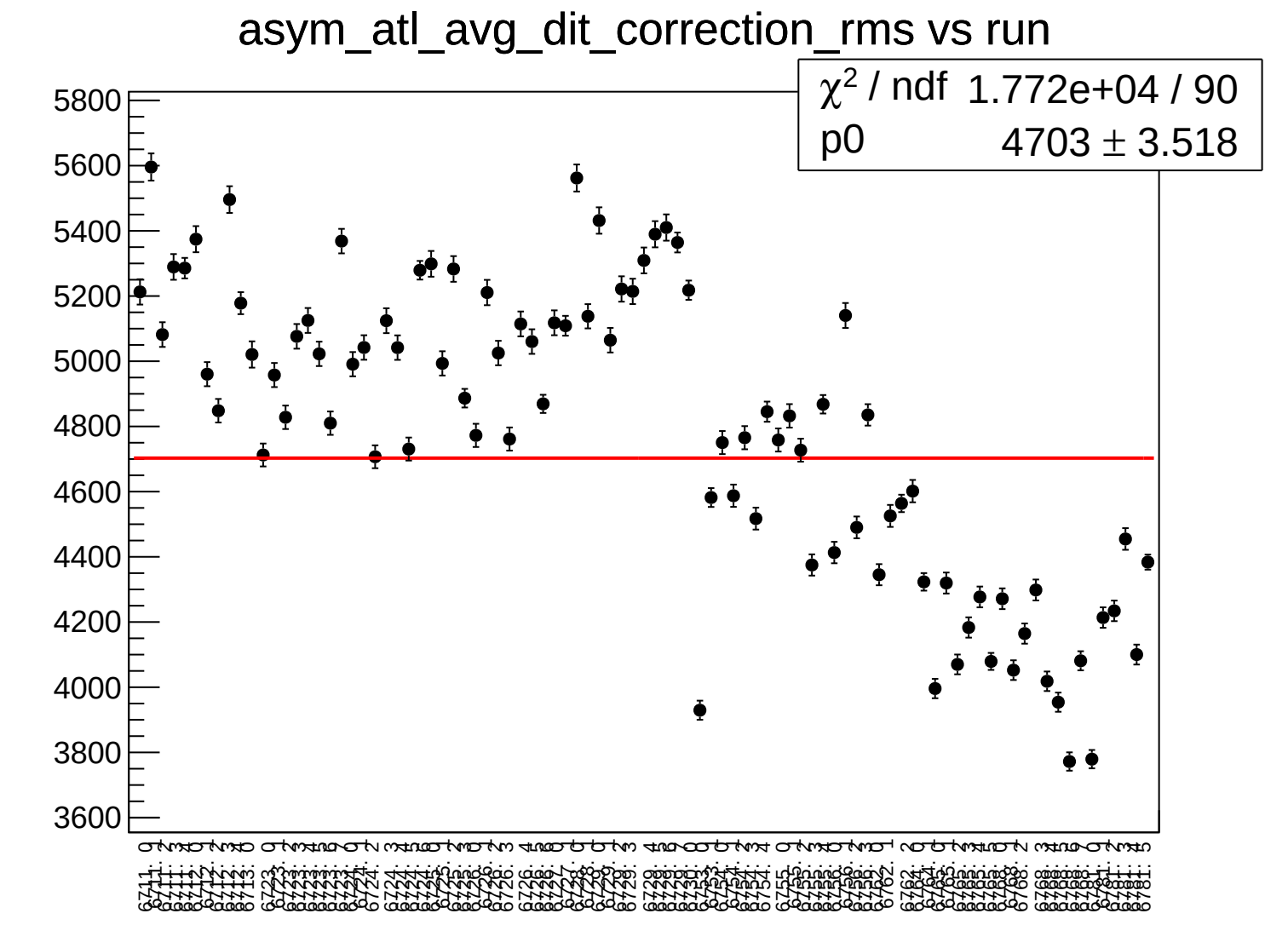

dit_asym_atl_avg_mean vs run
χ² / ndf 93.07 / 90
p0 −1004 ± 1907
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 464.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

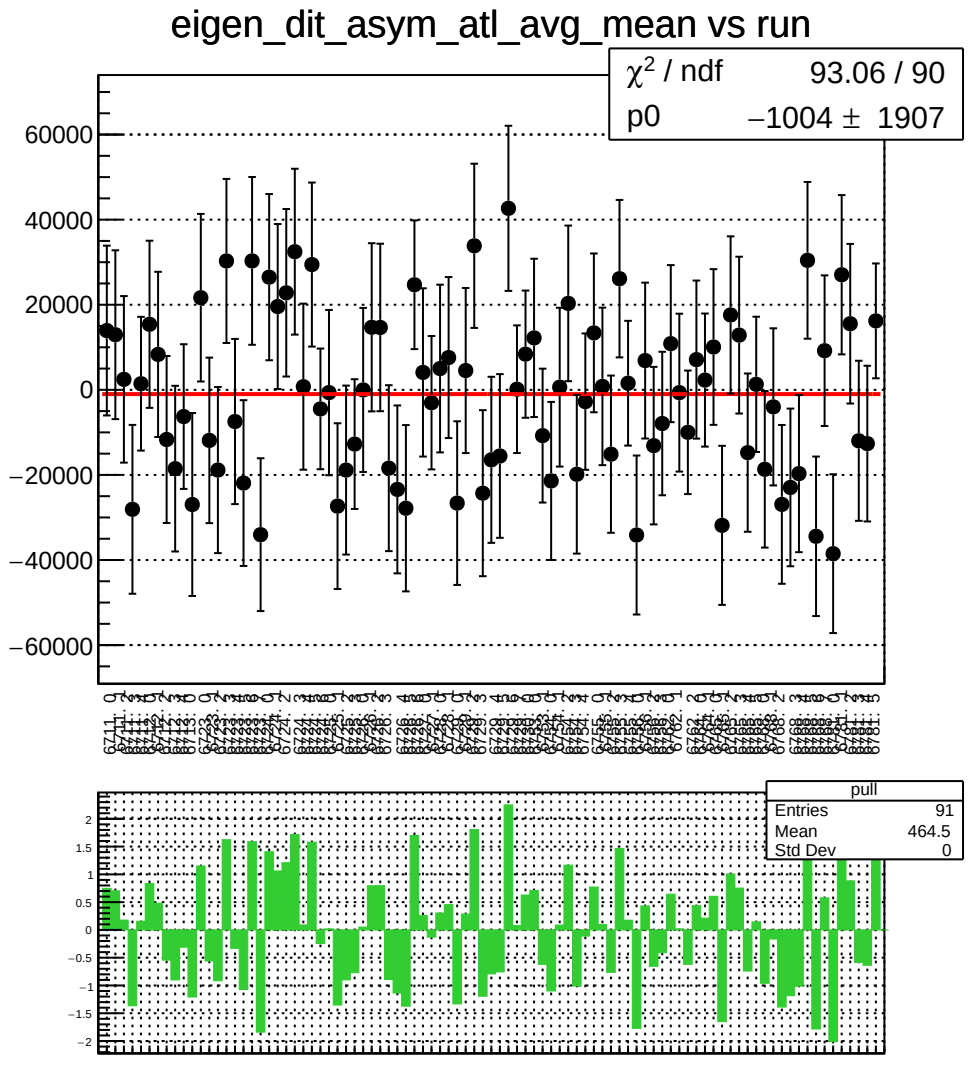

pull1D
Entries 91
Mean −0.005178
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

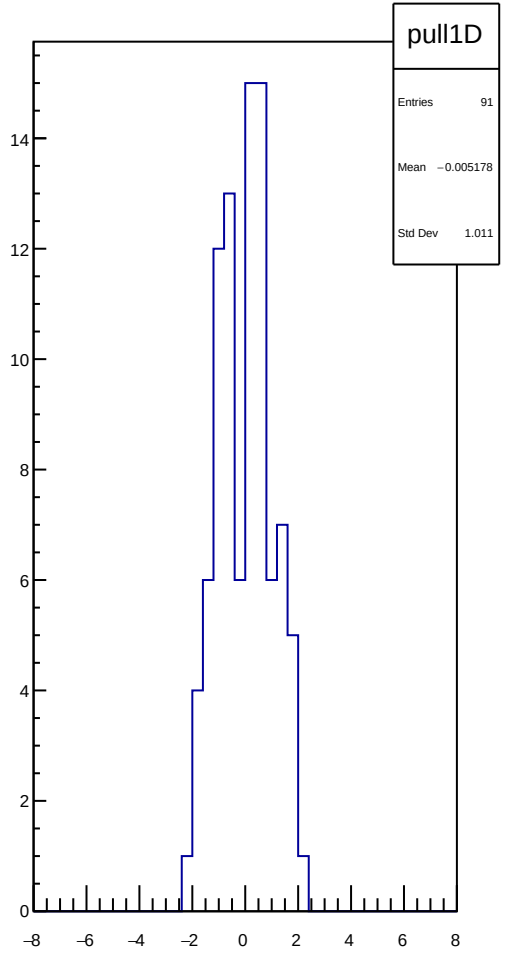

dit_asym_atl_avg_rms vs run
χ² / ndf 1309 / 90
p0 1811 ± 1.349
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

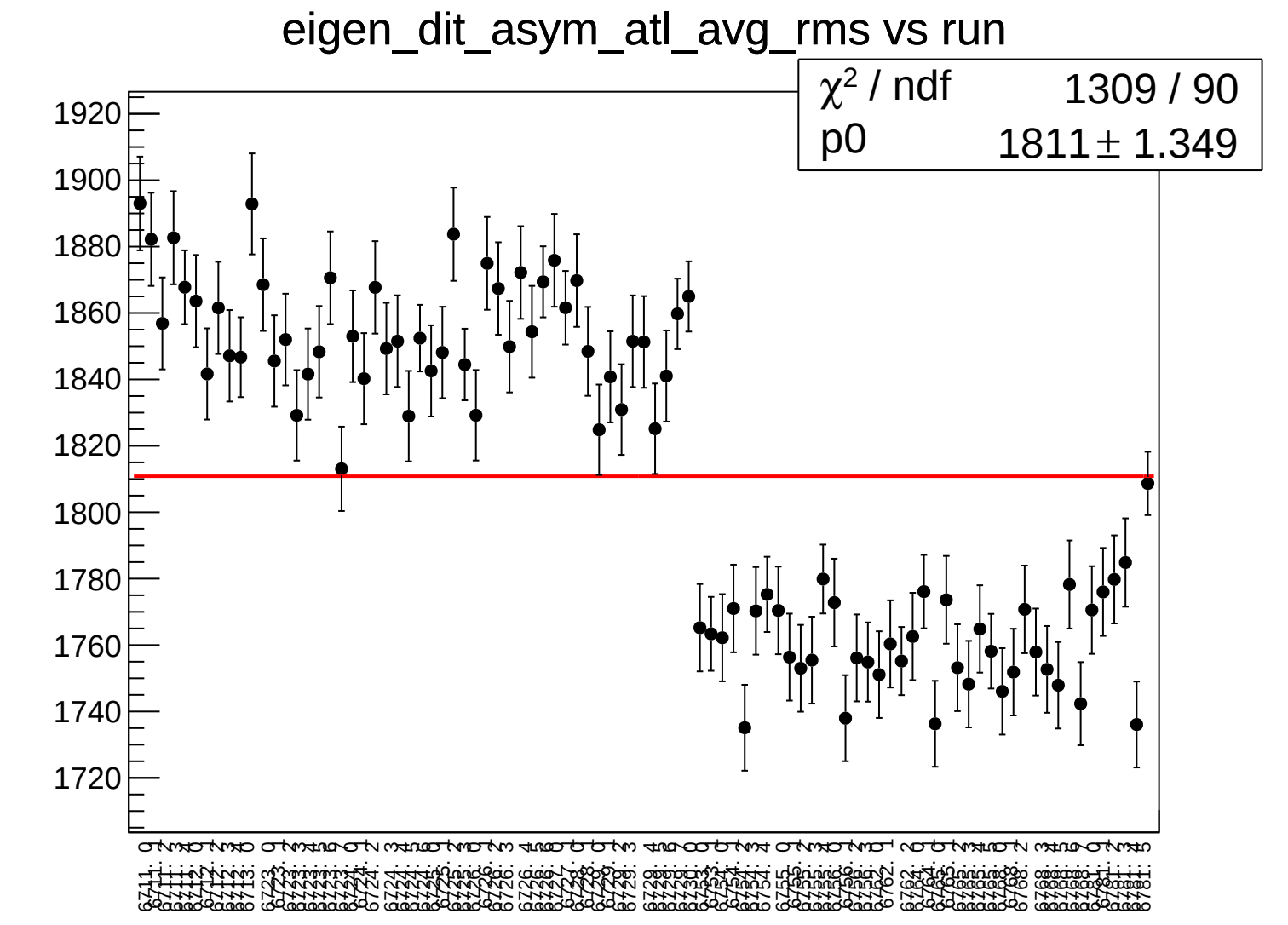

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 82.17 / 90
p0 −429.1± 4976
pull
Entries 91
Mean −63.98
Std Dev 0

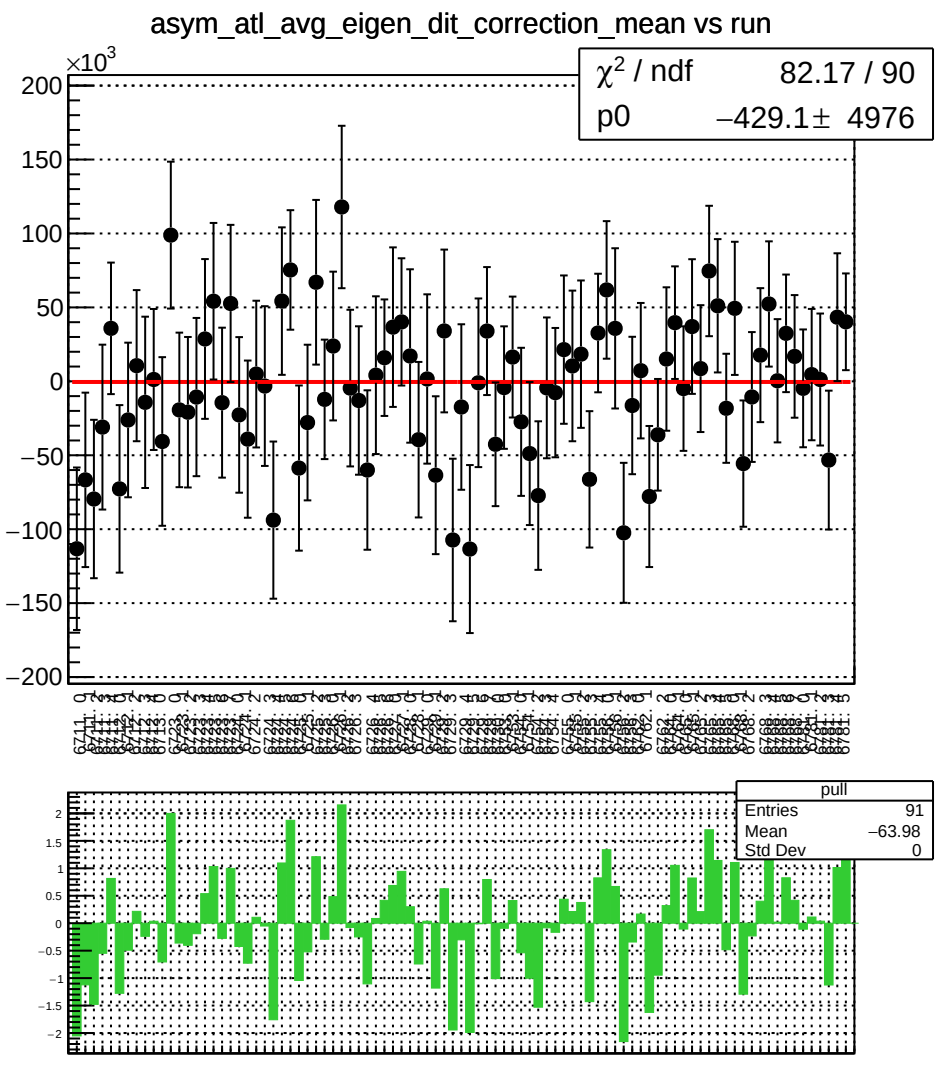

pull1D
Entries 91
Mean −0.03577
Std Dev 0.9496

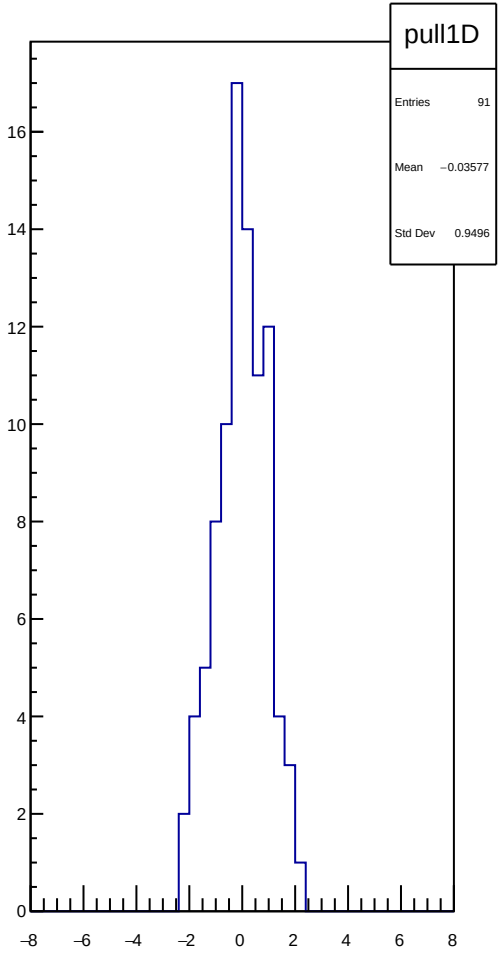

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 1.772e+04 / 90
p0 4703 ± 3.518
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

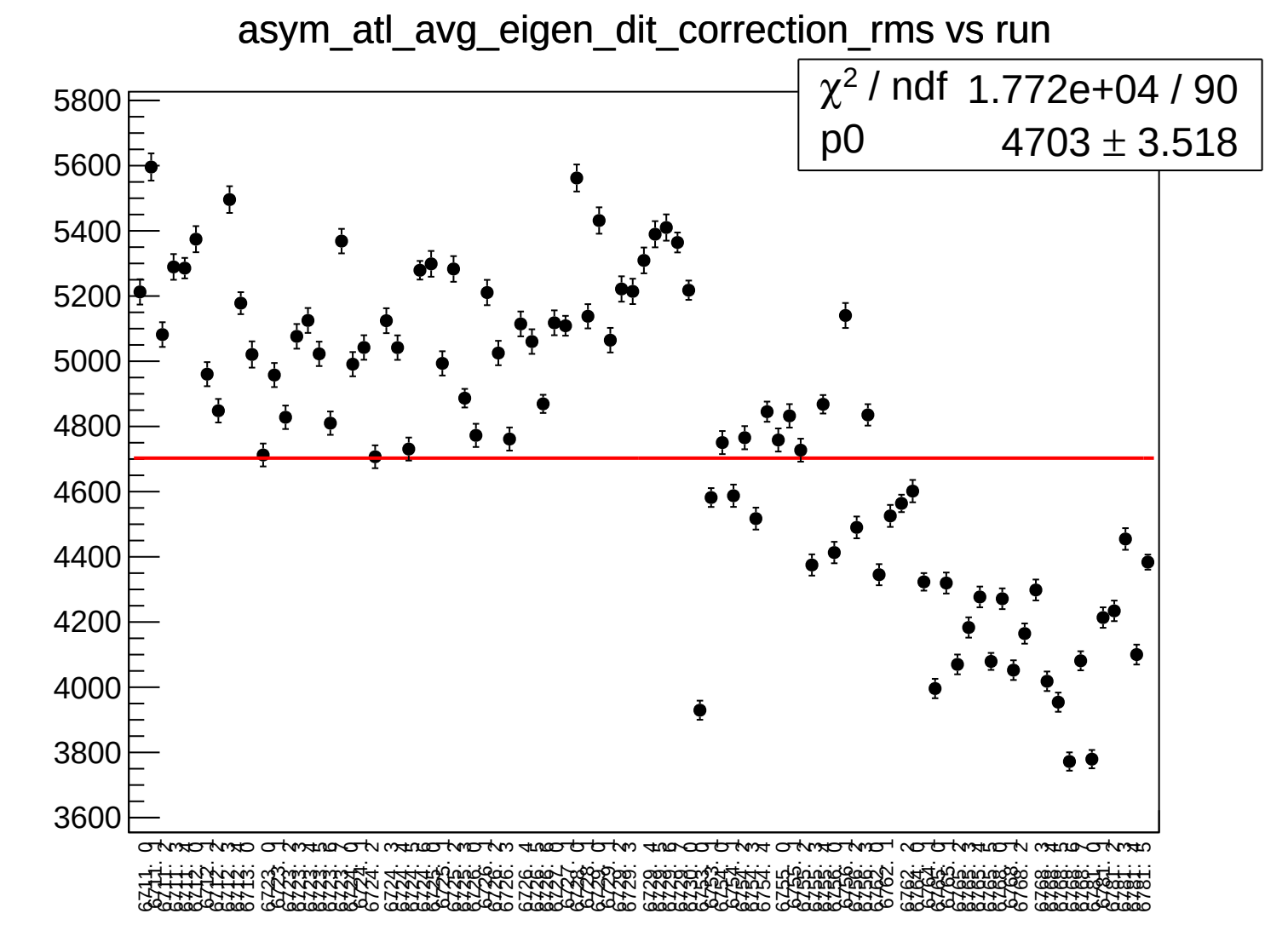

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 93.06 / 90
p0 −1004 ± 1907
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 464.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

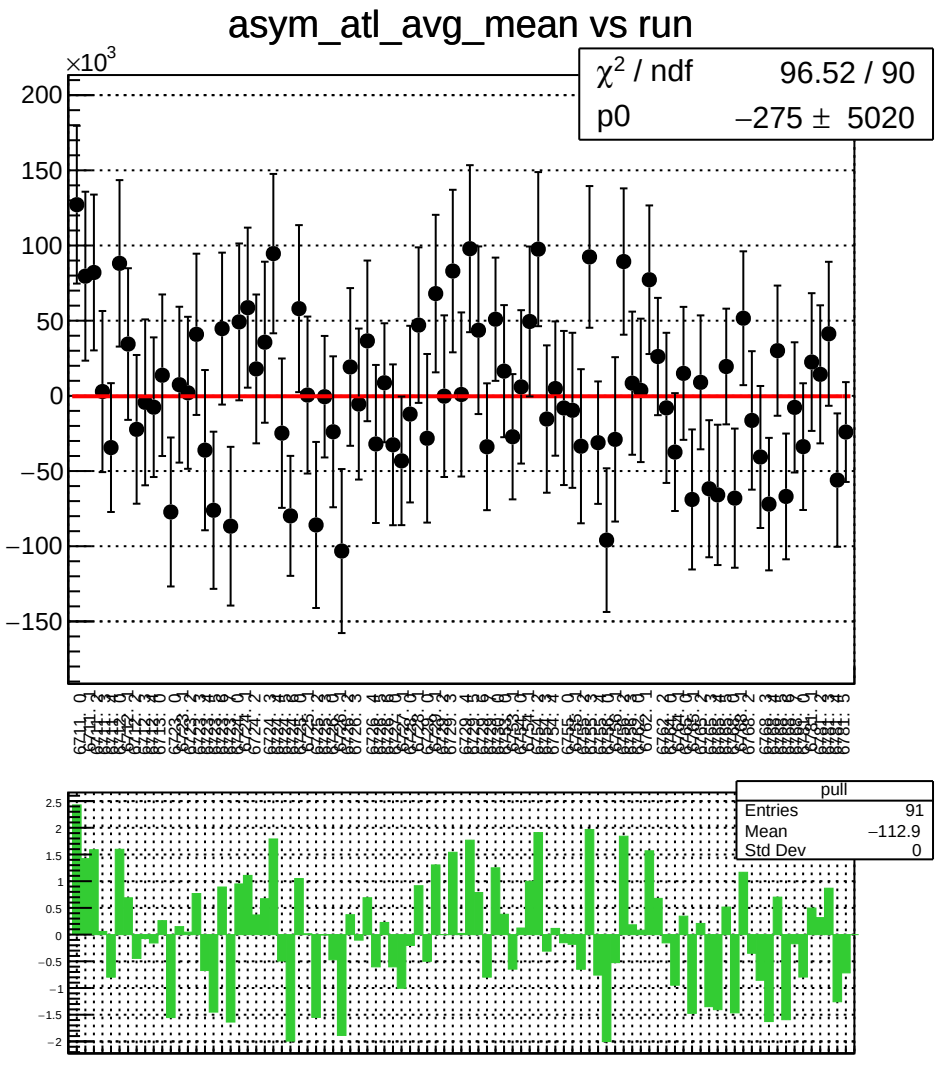

pull1D
Entries 91
Mean −0.005178
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

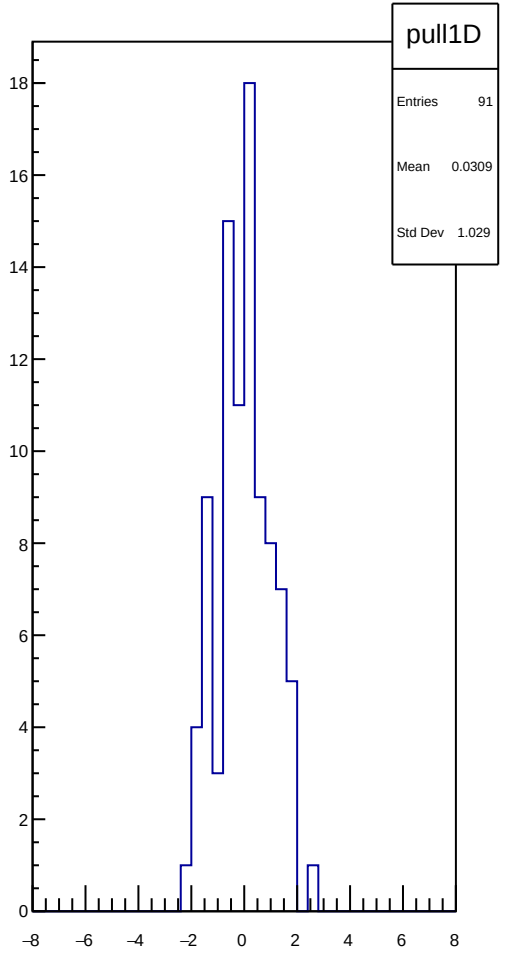

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 1309 / 90
p0 1811 ± 1.349
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

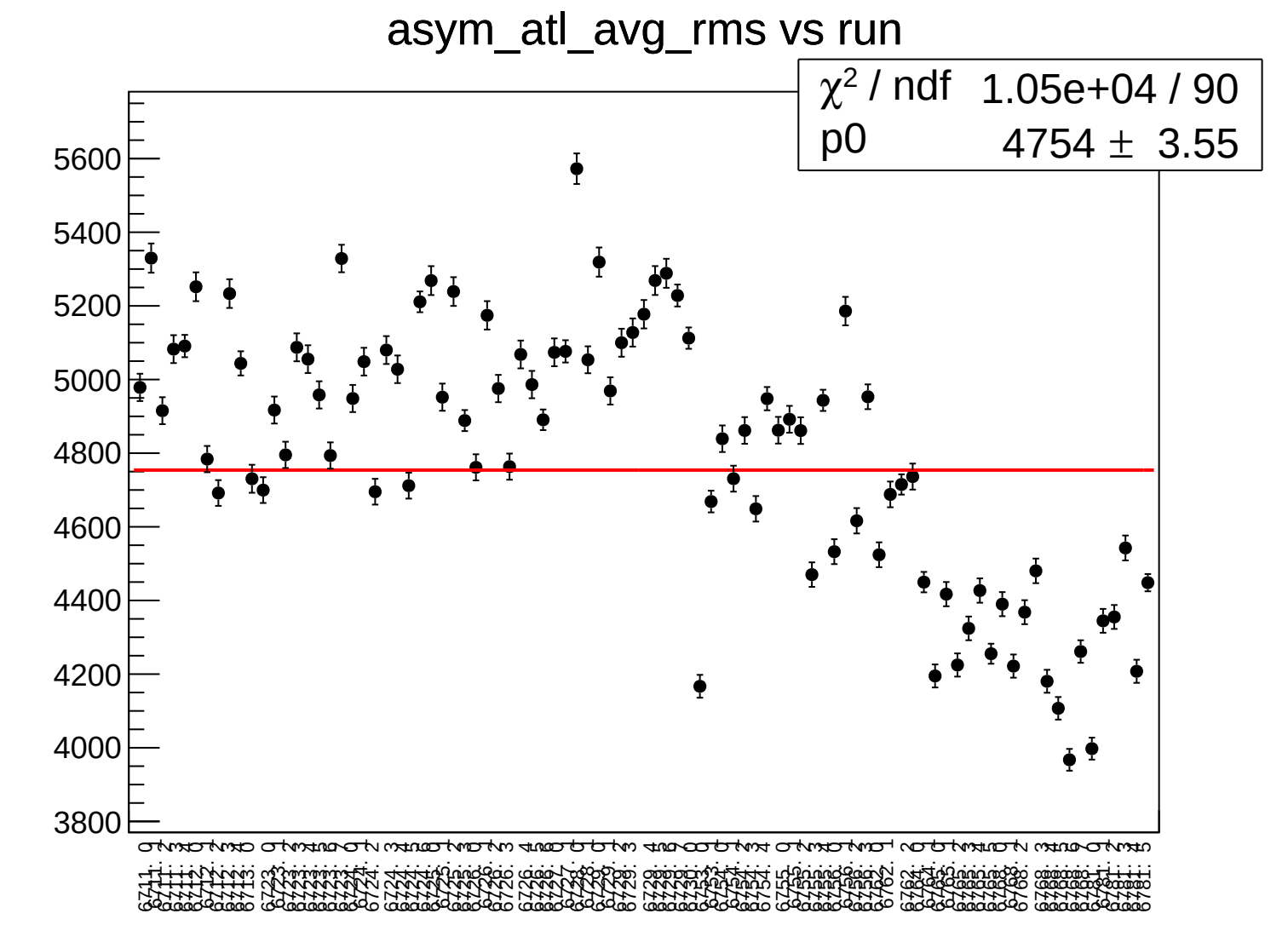

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.17 / 90
p0 −429.1± 4976
pull
Entries 91
Mean −63.98
Std Dev 0

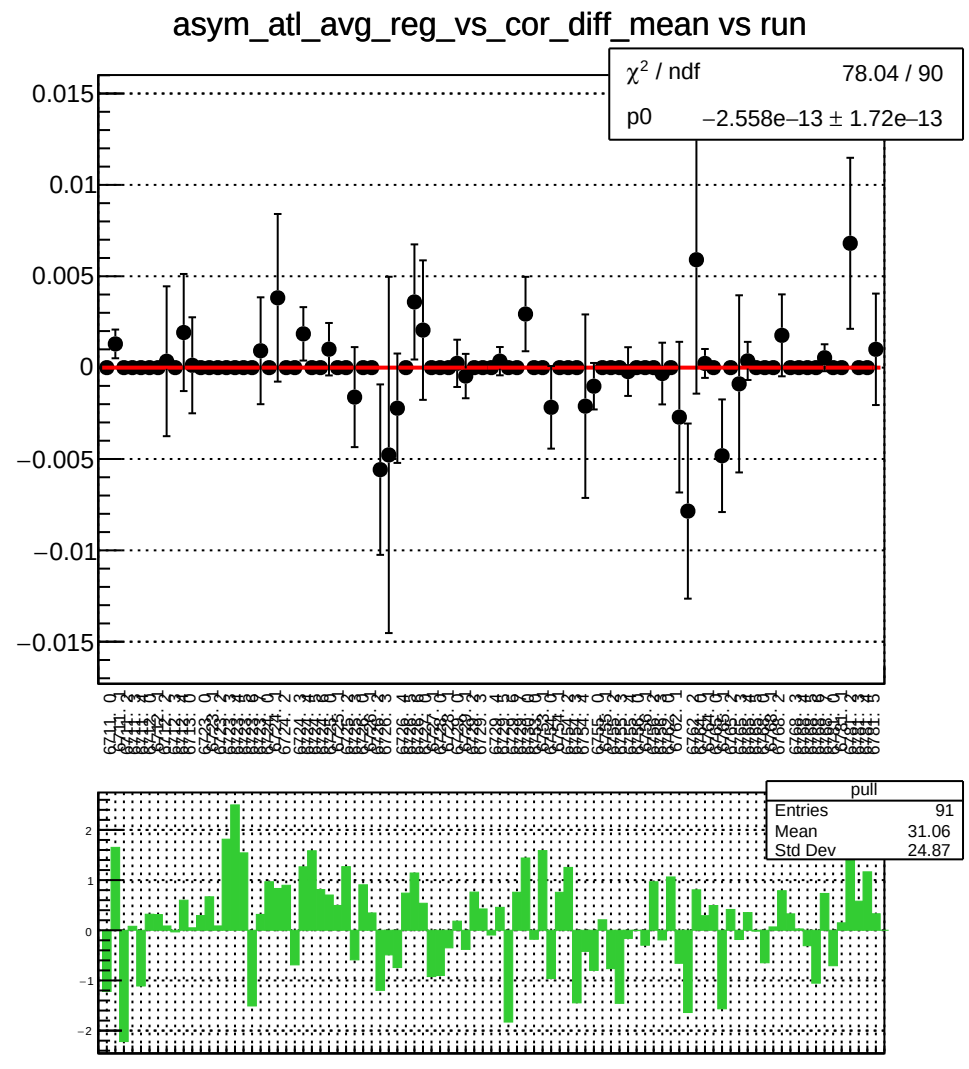

pull1D
Entries 91
Mean −0.03577
Std Dev 0.9496

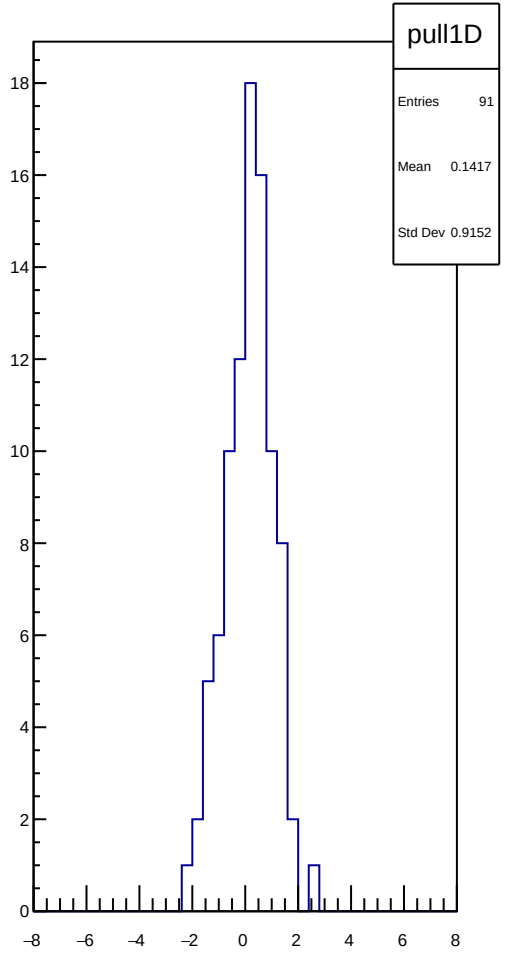

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.772e+04 / 90
p0 4703 ± 3.518
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

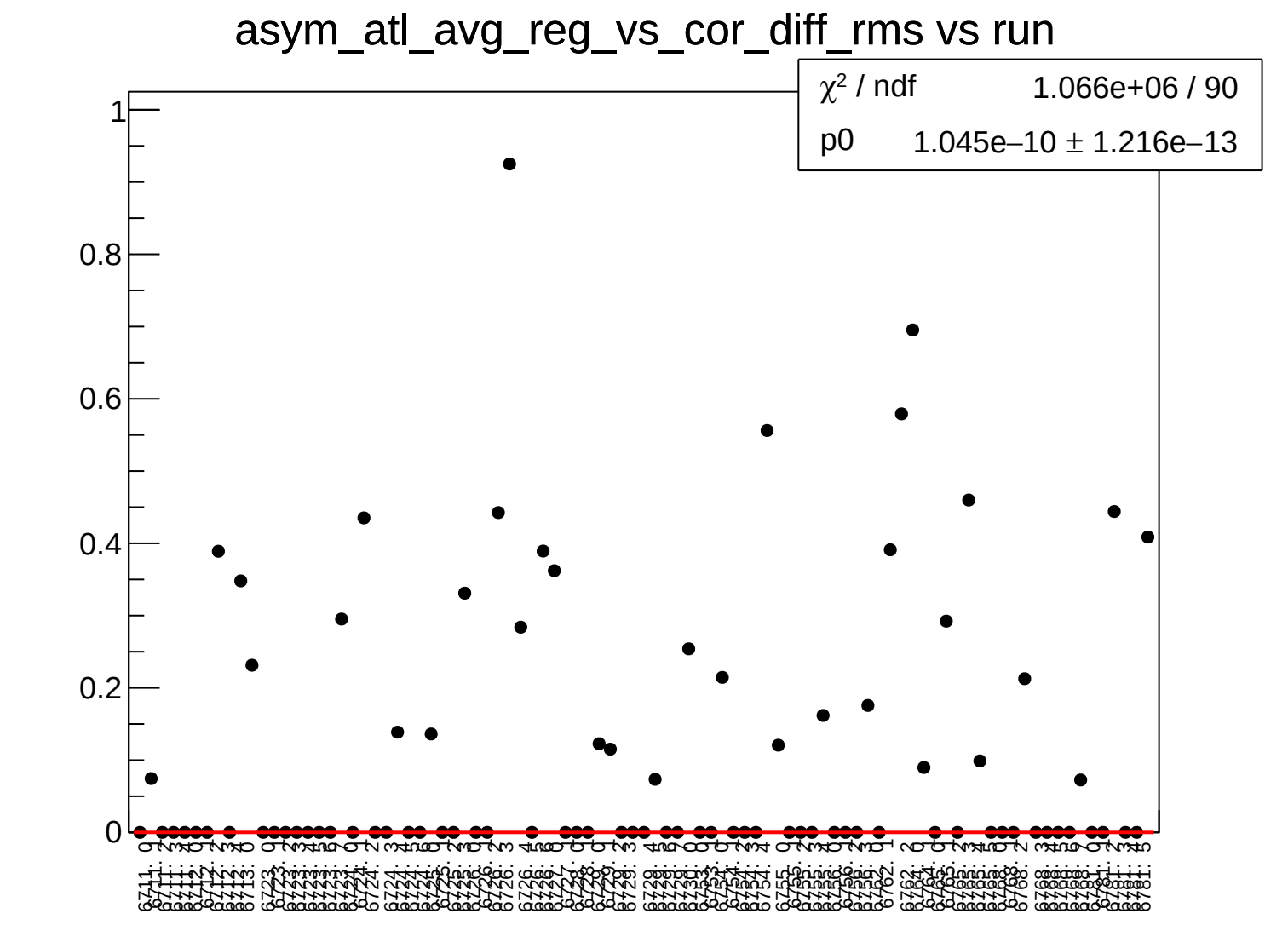

asym_atl_avg_mean vs run
×10^3
χ² / ndf 96.52 / 90
p0 −275 ± 5020
200
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −112.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

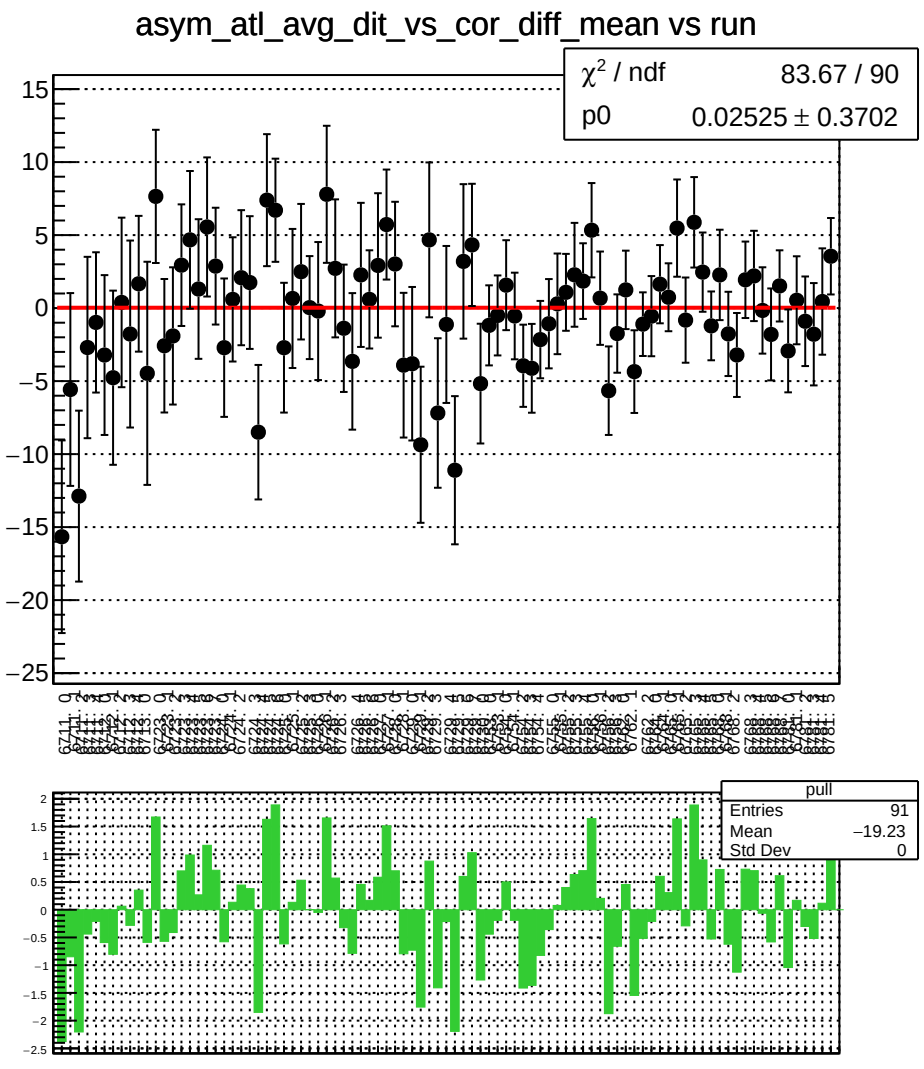

pull1D
Entries 91
Mean 0.0309
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

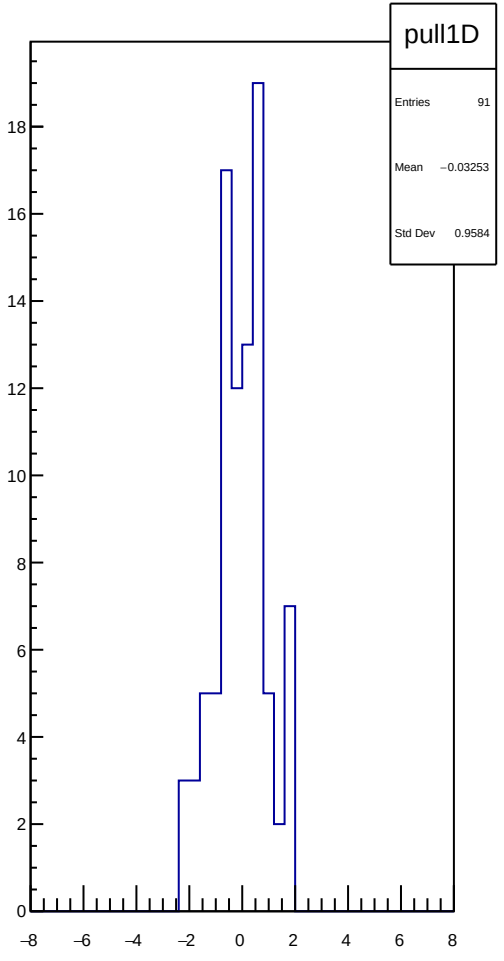

asym_atl_avg_rms vs run
χ² / ndf 1.05e+04 / 90
p0 4754 ± 3.55
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

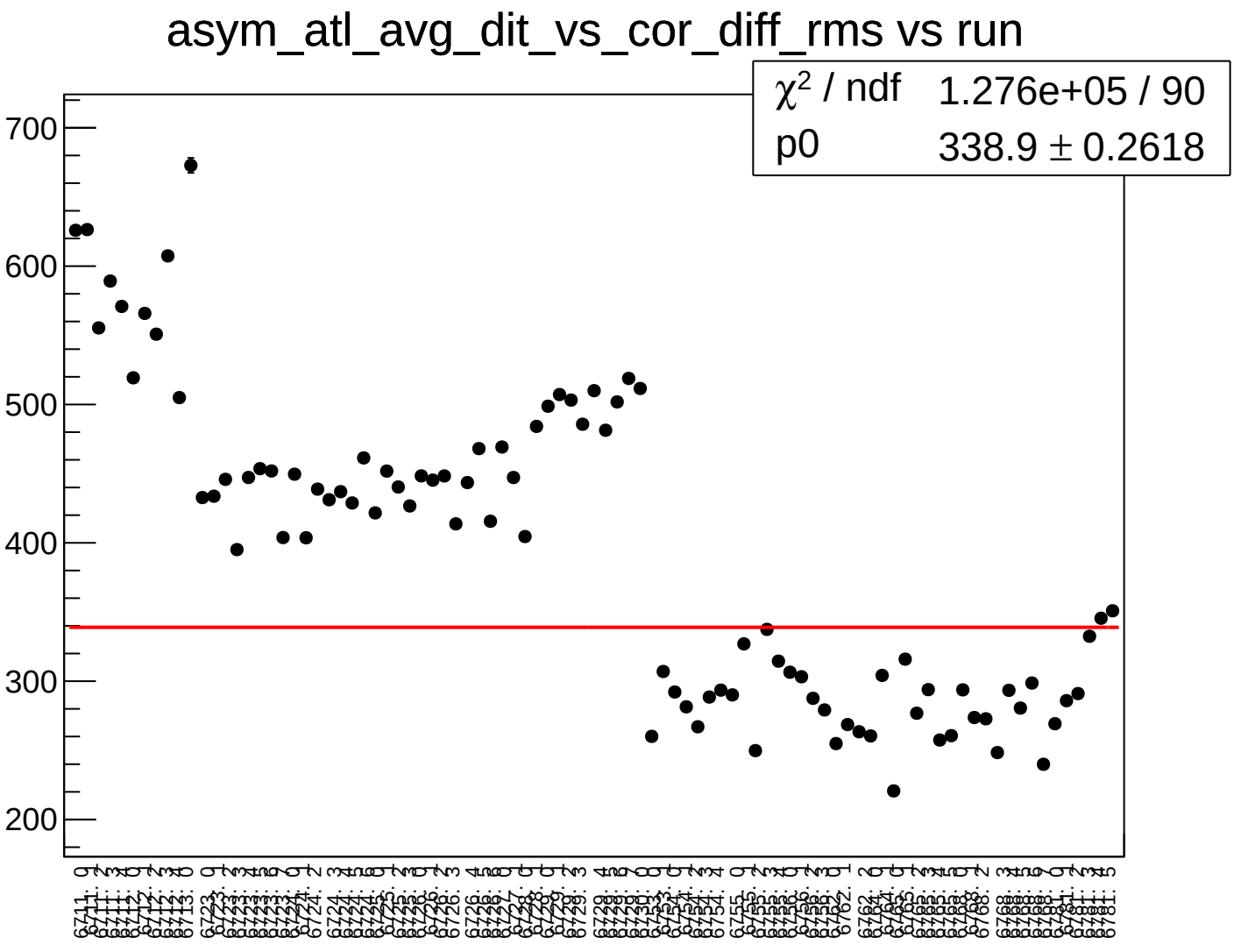

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.04 / 90
p0 −2.558e−13 ± 1.72e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 91
Mean 31.06
Std Dev 24.87
2
1
0
−1
−2

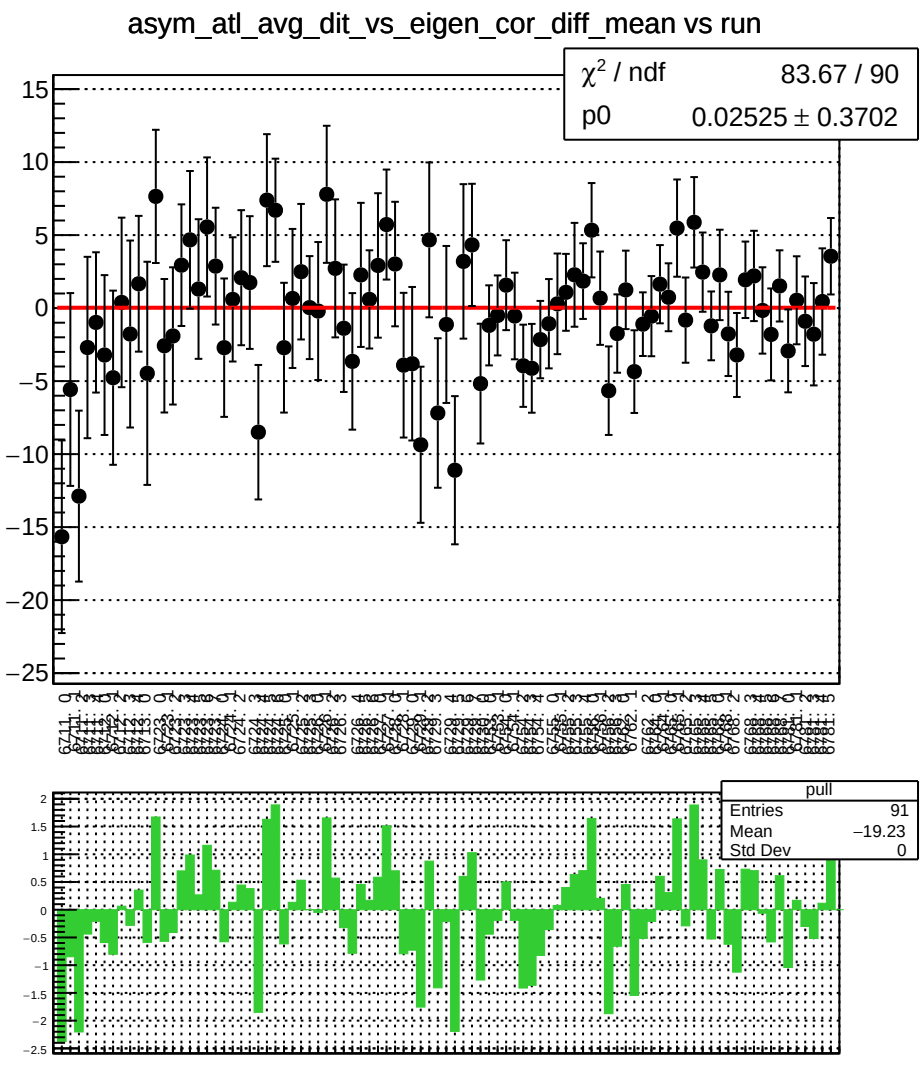

pull1D
Entries 91
Mean 0.1417
Std Dev 0.9152
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

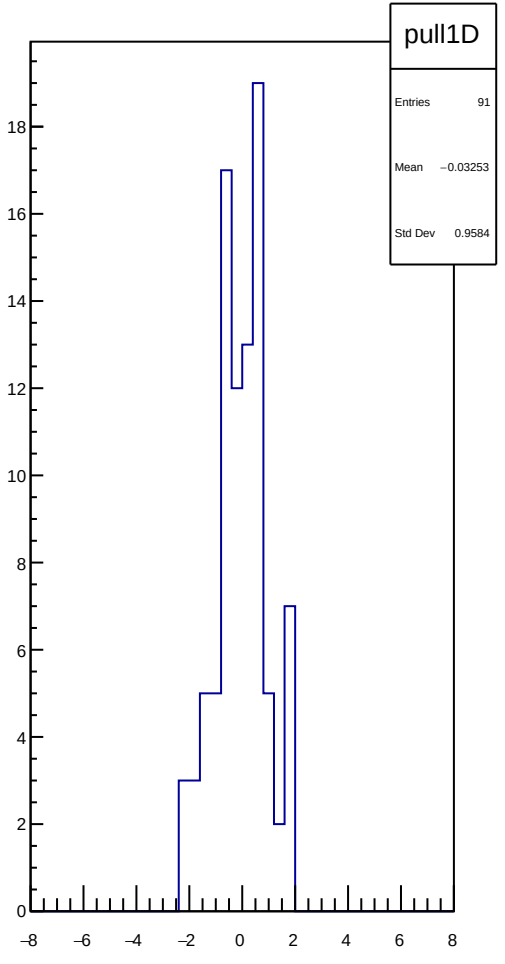

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.066e+06 / 90
p0 1.045e−10 ± 1.216e−13
1
0.8
0.6
0.4
0.2
0

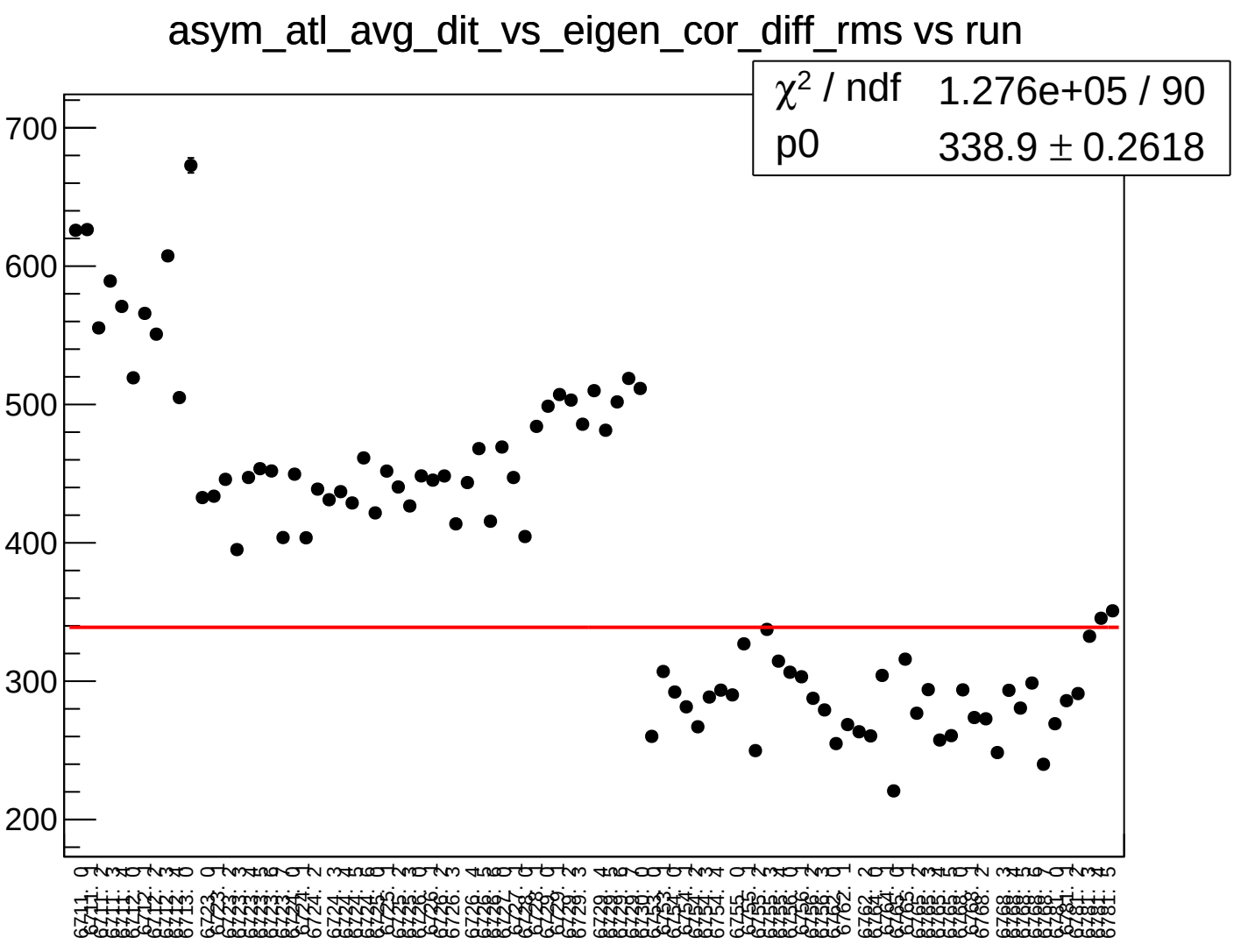

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.67 / 90
p0 0.02525 ± 0.3702
pull
Entries 91
Mean −19.23
Std Dev 0

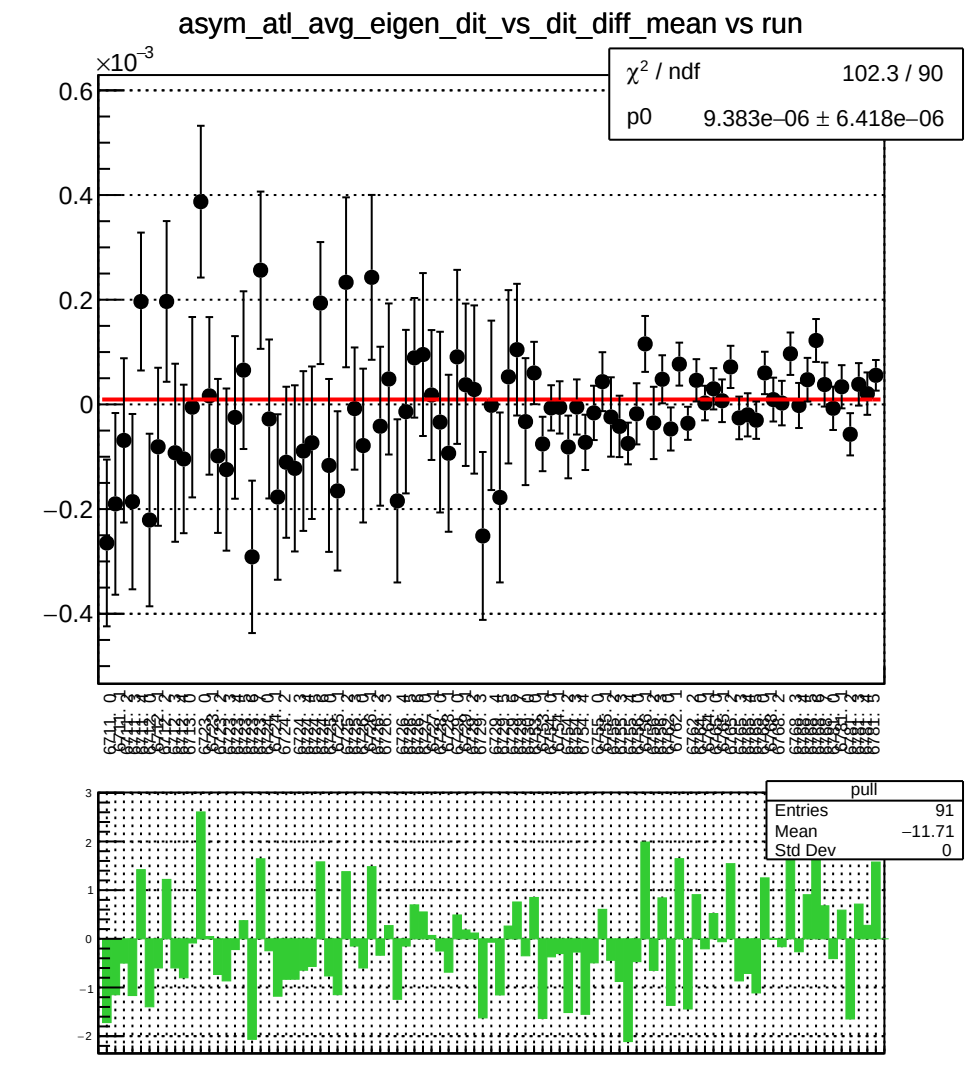

pull1D
Entries 91
Mean −0.03253
Std Dev 0.9584

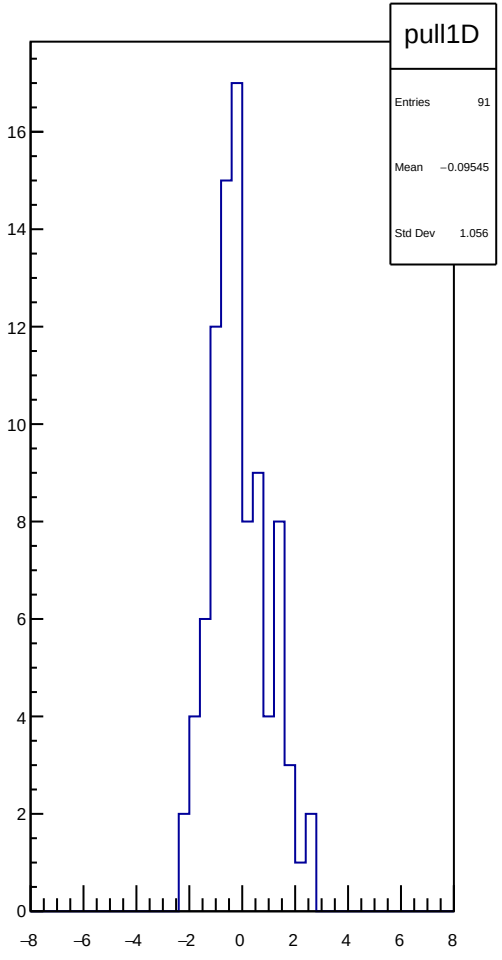

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.276e+05 / 90
p0 338.9 ± 0.2618
700
600
500
400
300
200

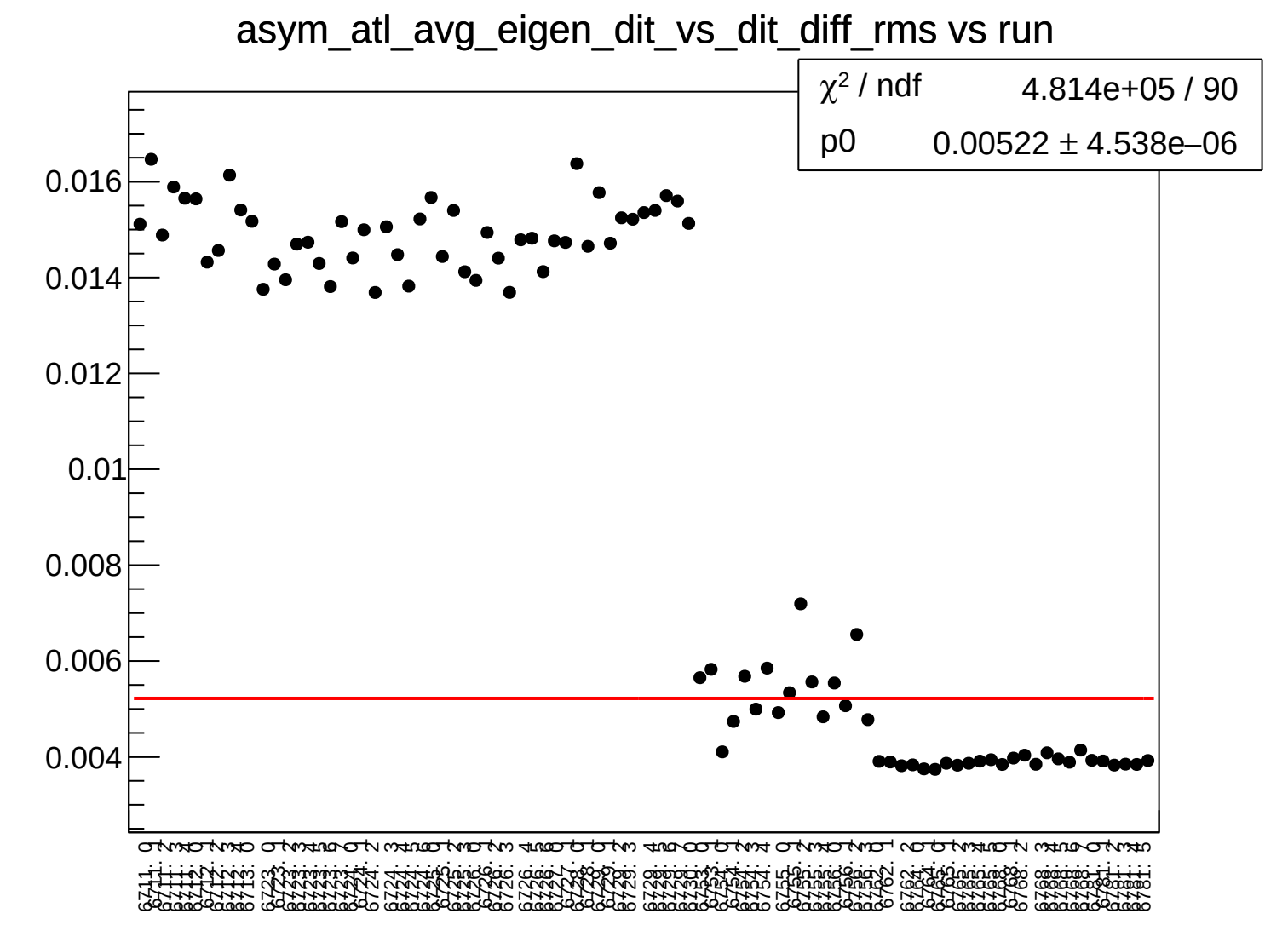

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.67 / 90
p0 0.02525 ± 0.3702
pull
Entries 91
Mean −19.23
Std Dev 0

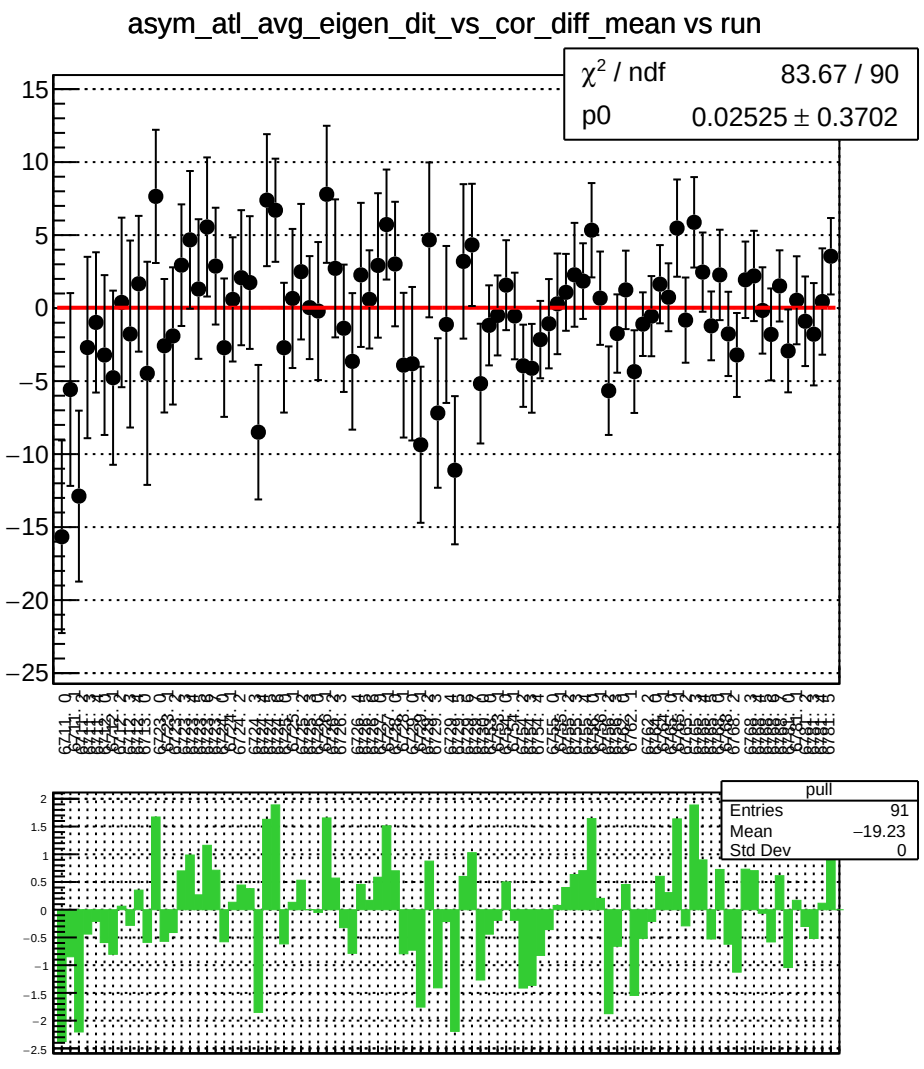

pull1D
Entries 91
Mean −0.03253
Std Dev 0.9584

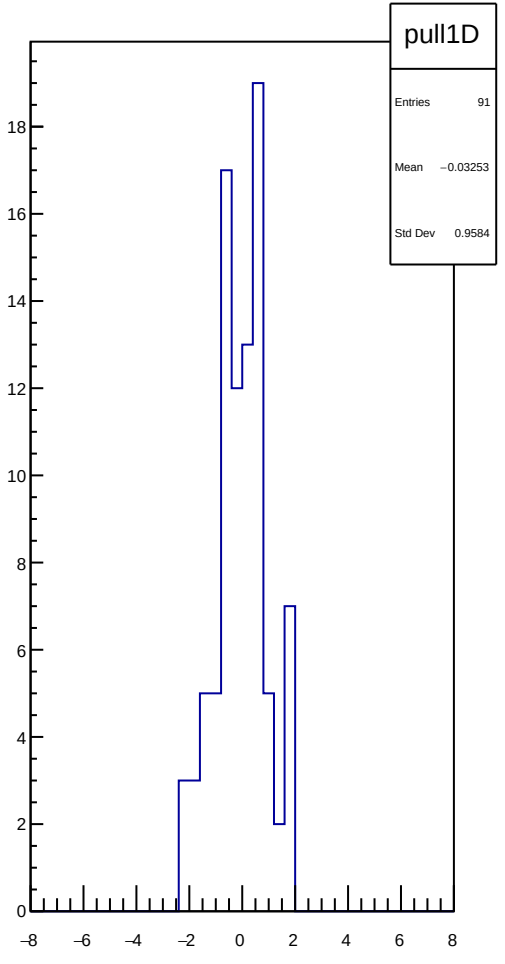

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.276e+05 / 90
p0 338.9 ± 0.2618
700
600
500
400
300
200

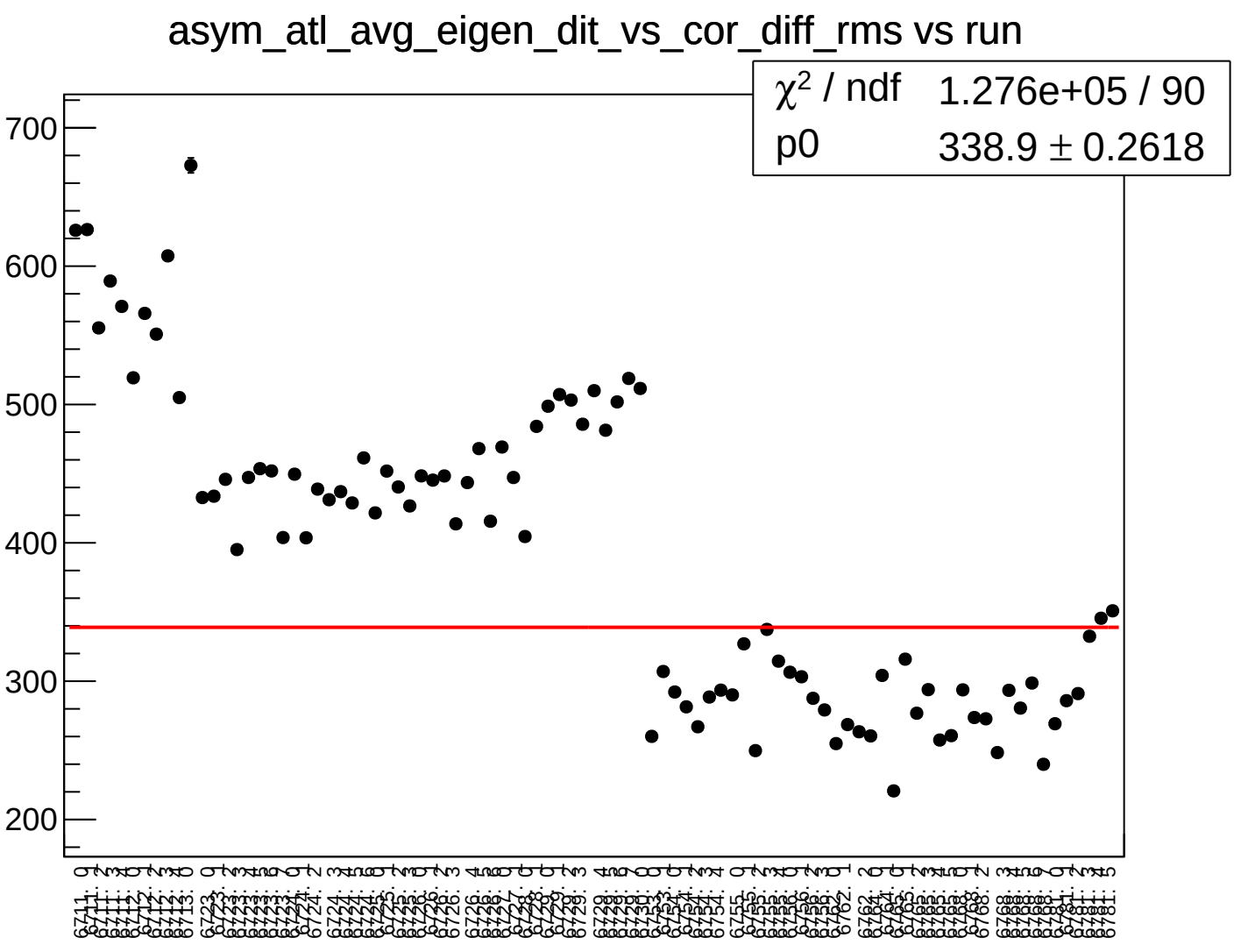

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.3 / 90
p0 9.383e−06 ± 6.418e−06
pull
Entries 91
Mean −11.71
Std Dev 0

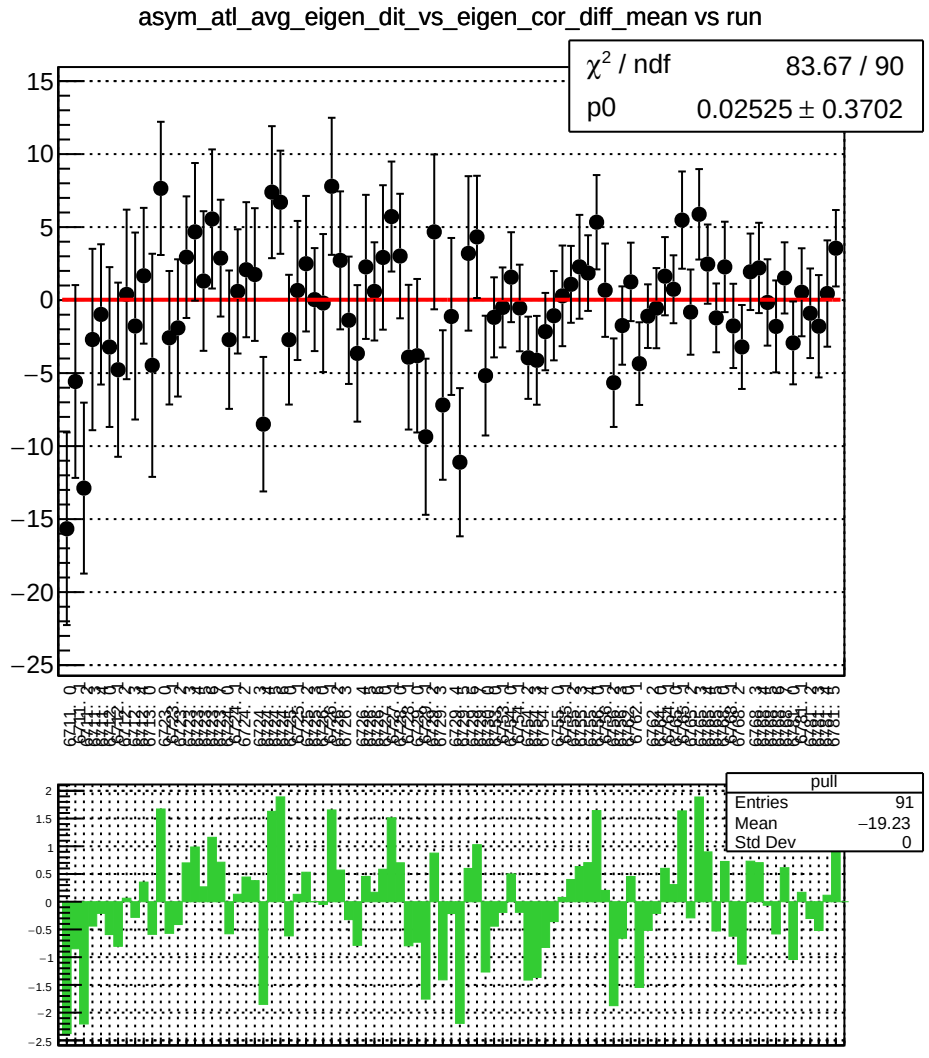

pull1D
Entries 91
Mean −0.09545
Std Dev 1.056

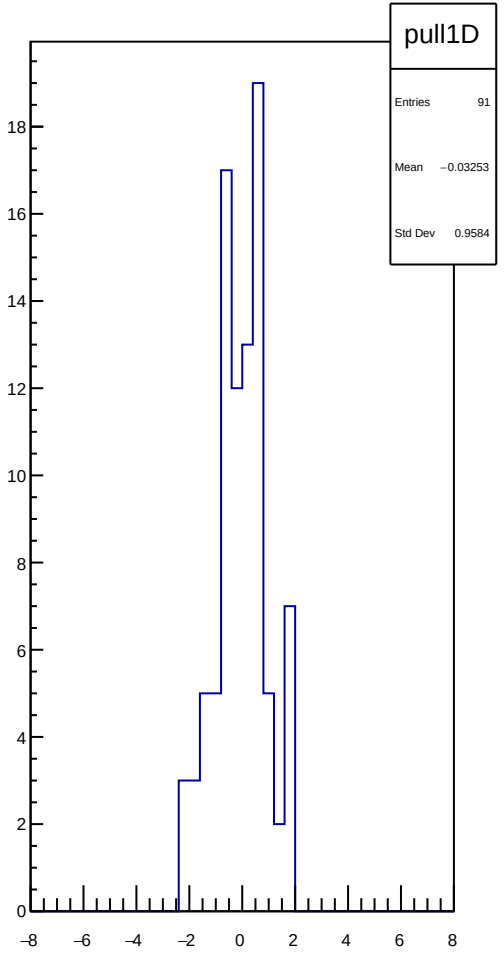

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.814e+05 / 90
p0 0.00522 ± 4.538e–06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

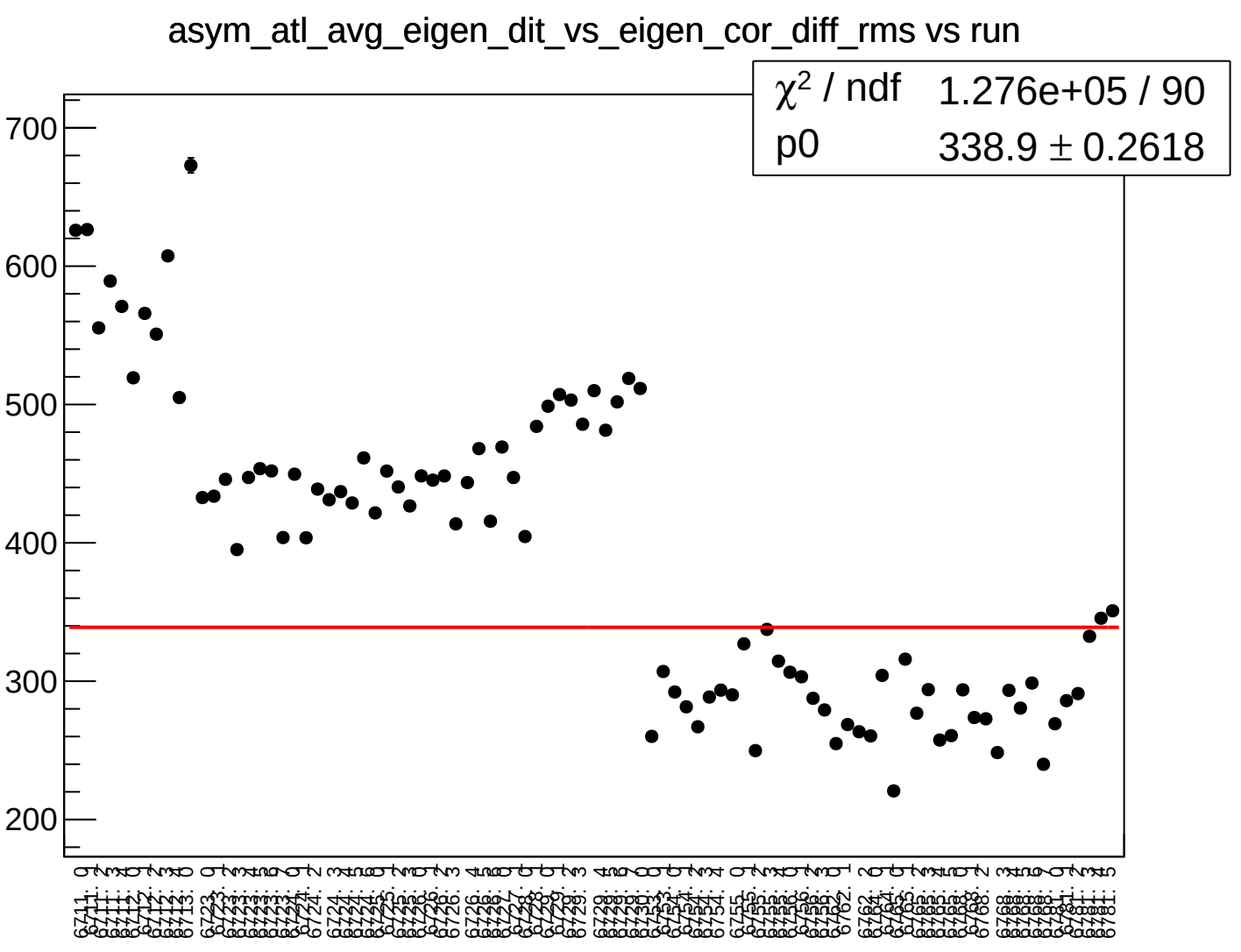

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.67 / 90
p0 0.02525 ± 0.3702
pull
Entries 91
Mean −19.23
Std Dev 0

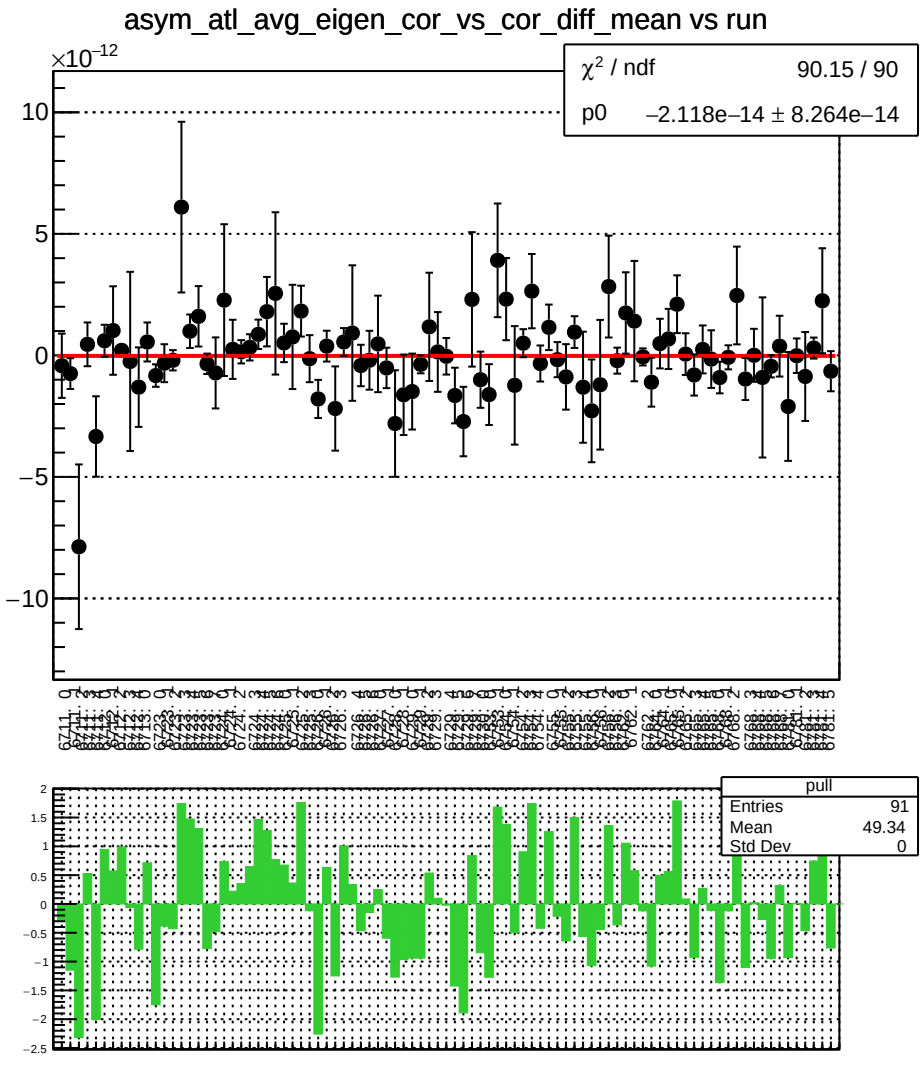

pull1D
Entries 91
Mean −0.03253
Std Dev 0.9584

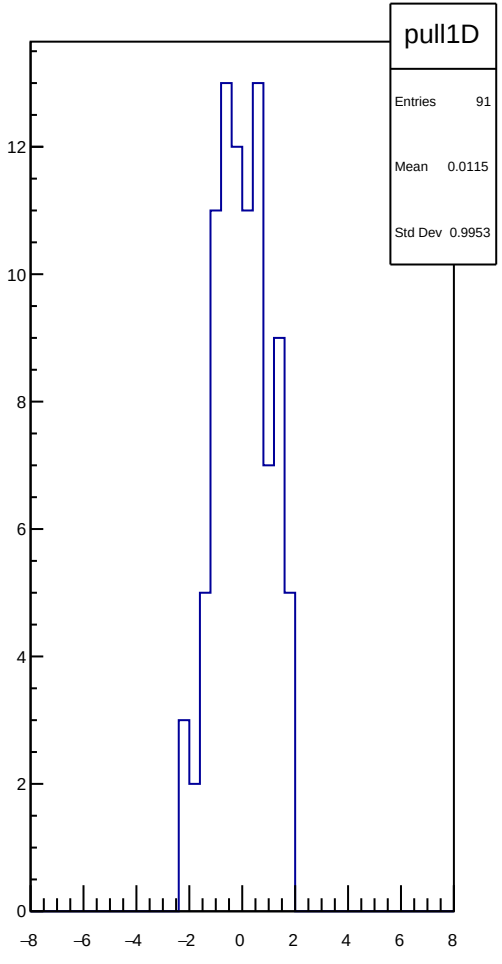

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.276e+05 / 90
p0 338.9 ± 0.2618
700
600
500
400
300
200

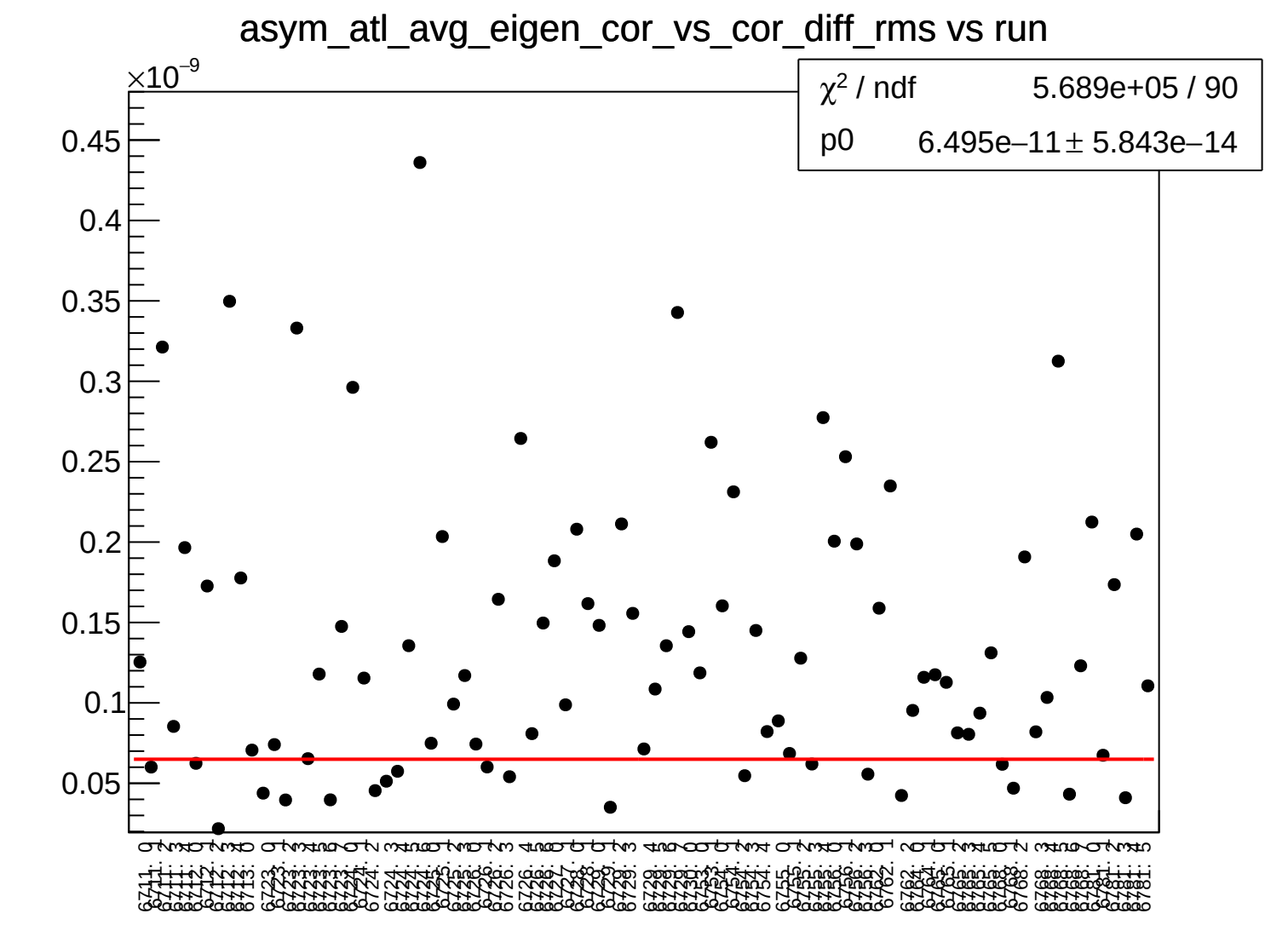

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.67 / 90
p0 0.02525 ± 0.3702
pull
Entries 91
Mean −19.23
Std Dev 0

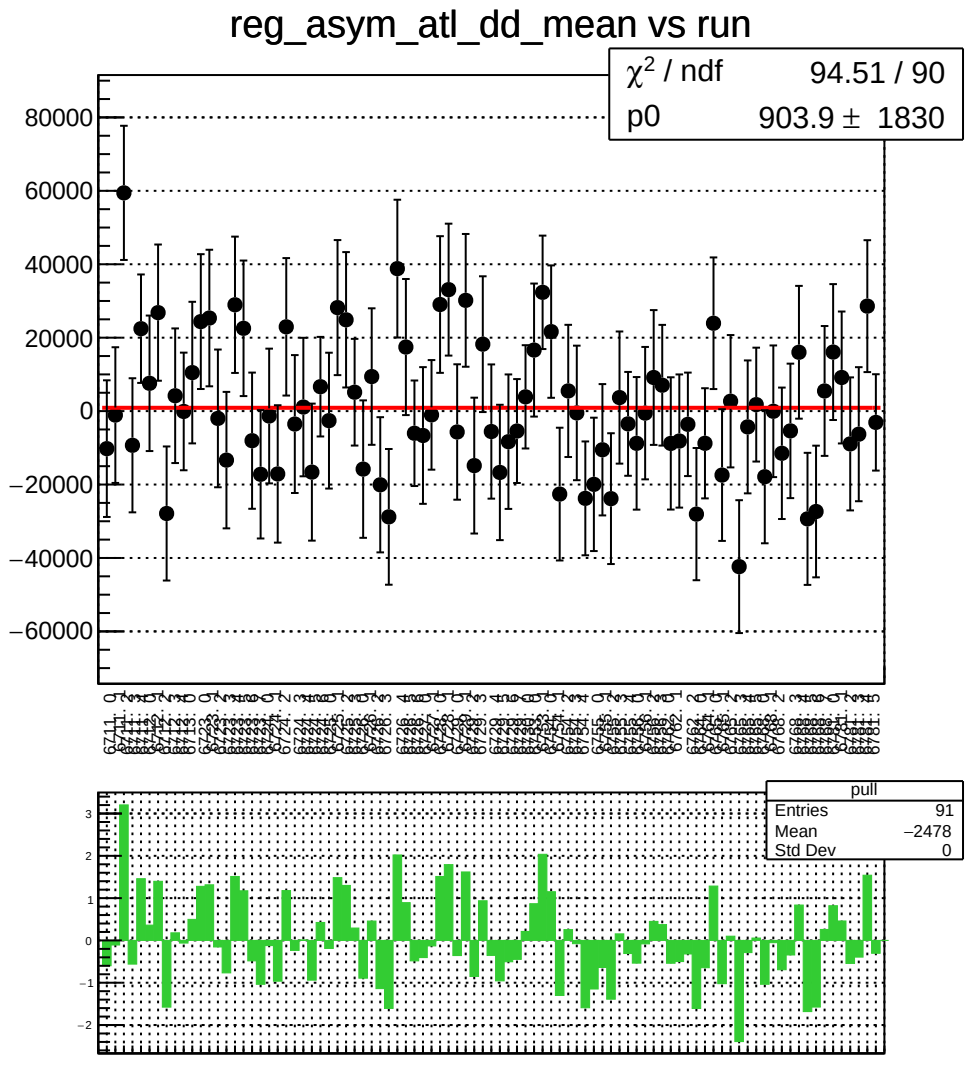

pull1D
Entries 91
Mean −0.03253
Std Dev 0.9584

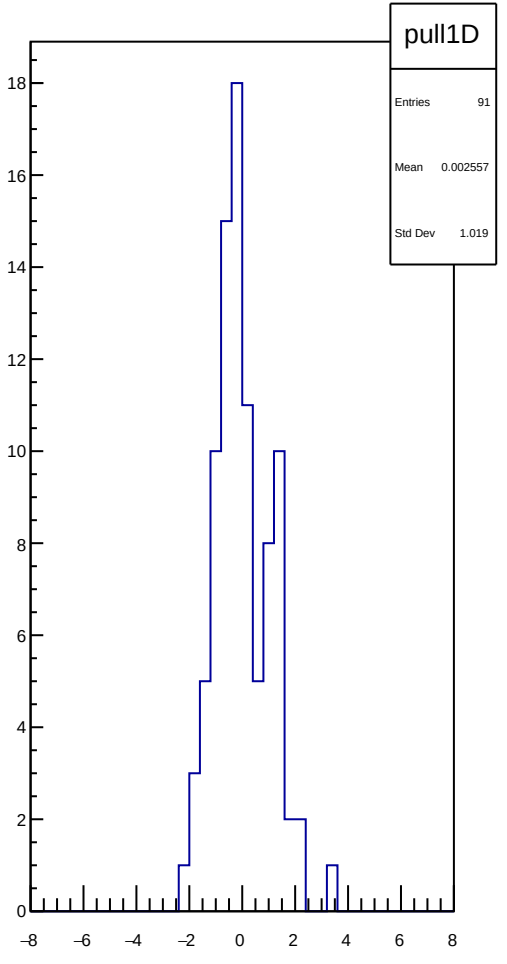

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.276e+05 / 90
p0 338.9 ± 0.2618
700
600
500
400
300
200

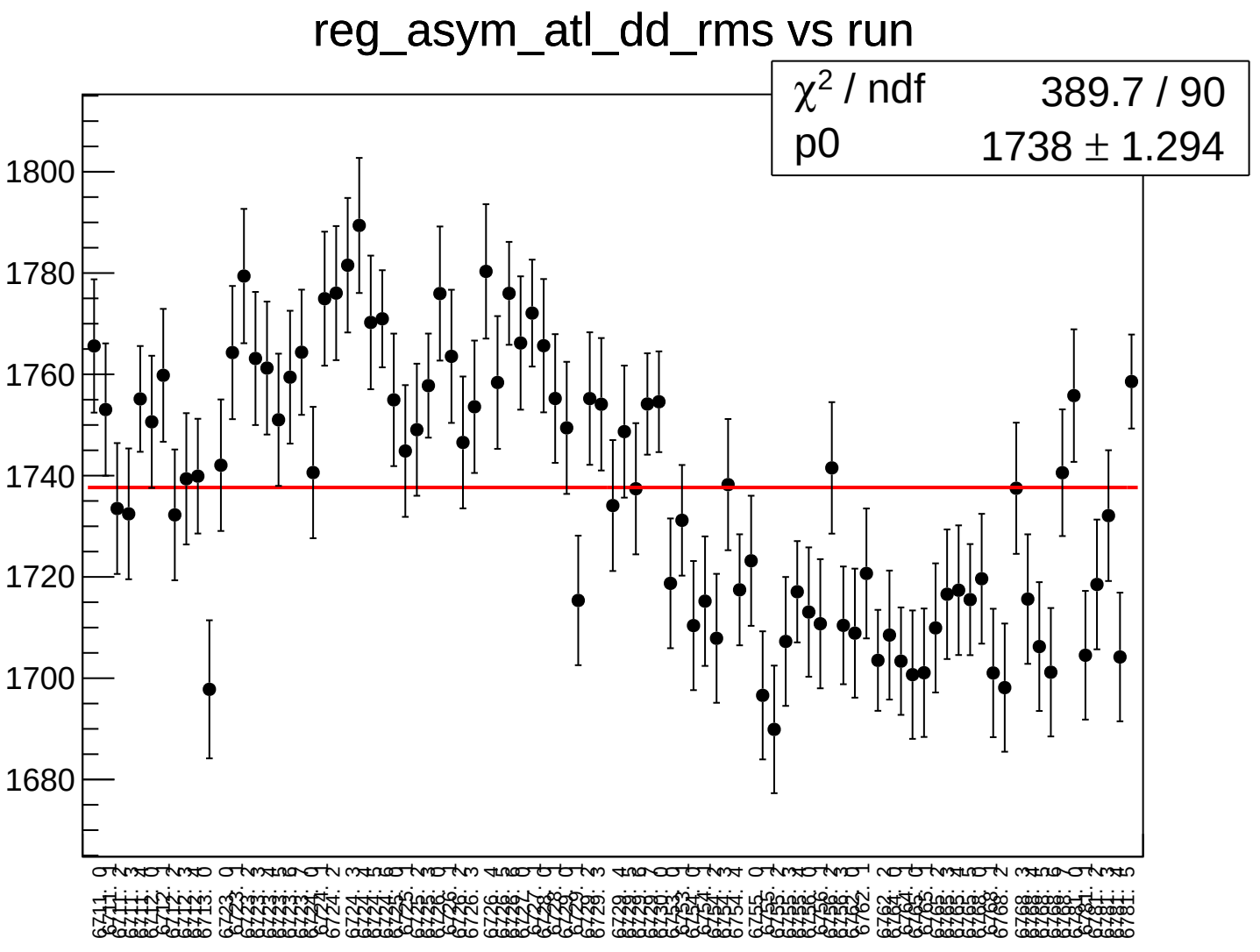

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.15 / 90
p0 −2.118e−14 ± 8.264e−14
pull
Entries 91
Mean 49.34
Std Dev 0

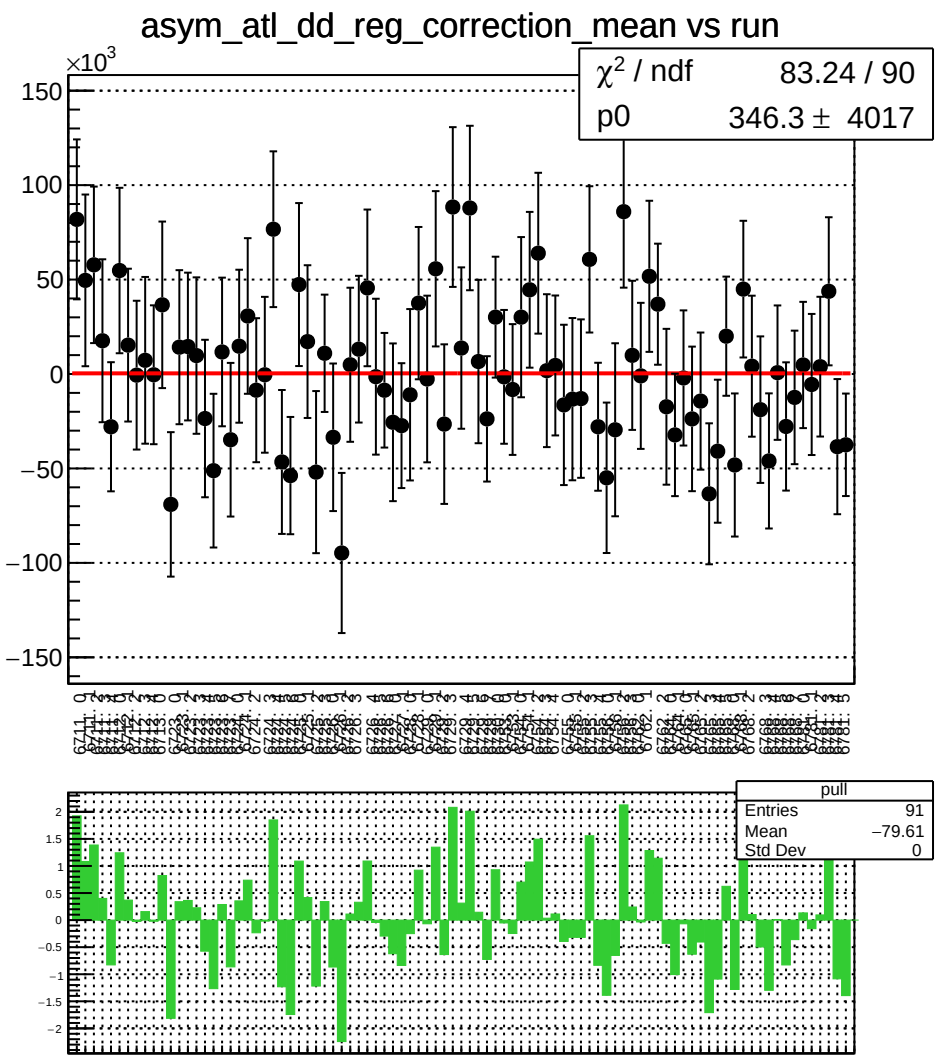

pull1D
Entries 91
Mean 0.0115
Std Dev 0.9953

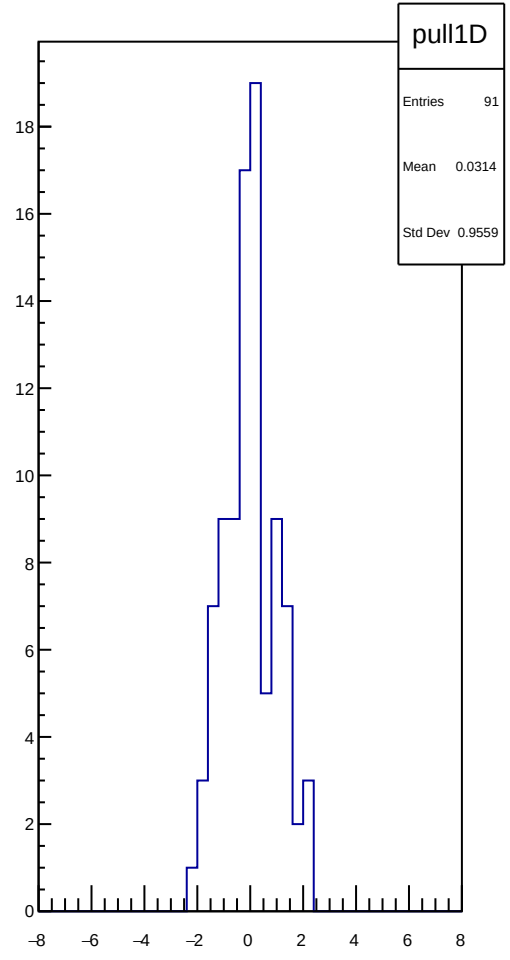

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.689e+05 / 90
p0 6.495e−11 ± 5.843e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

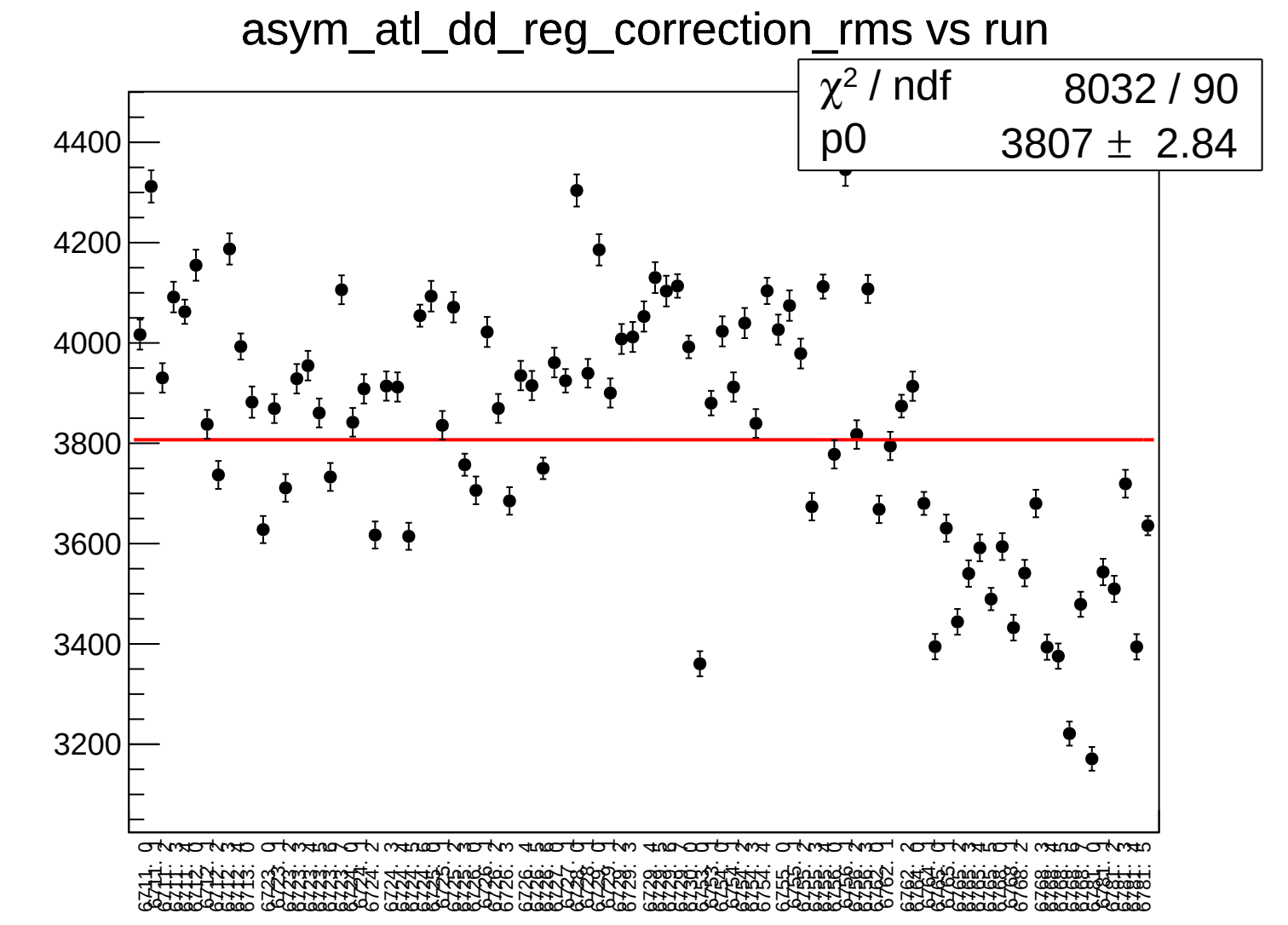

reg_asym_atl_dd_mean vs run
χ² / ndf 94.51 / 90
p0 903.9 ± 1830
pull
Entries 91
Mean −2478
Std Dev 0

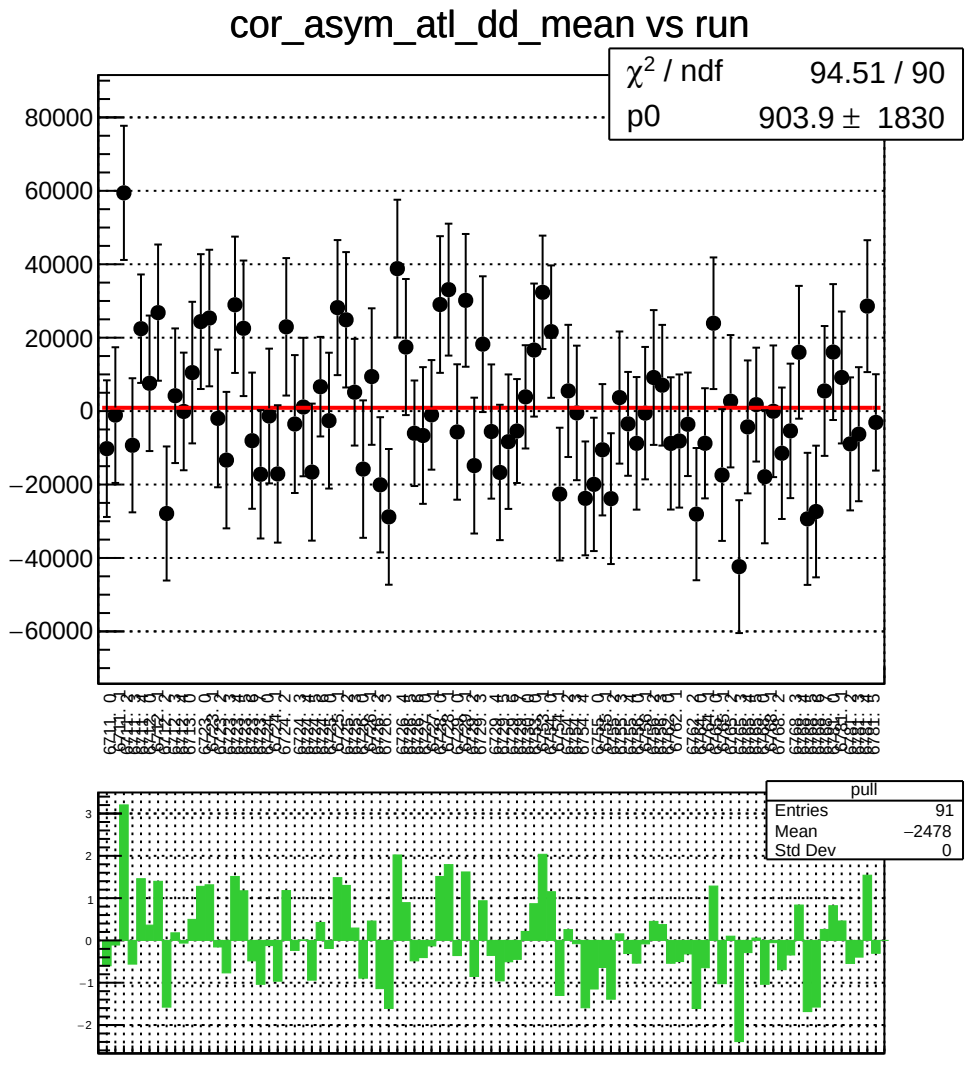

pull1D
Entries 91
Mean 0.002557
Std Dev 1.019

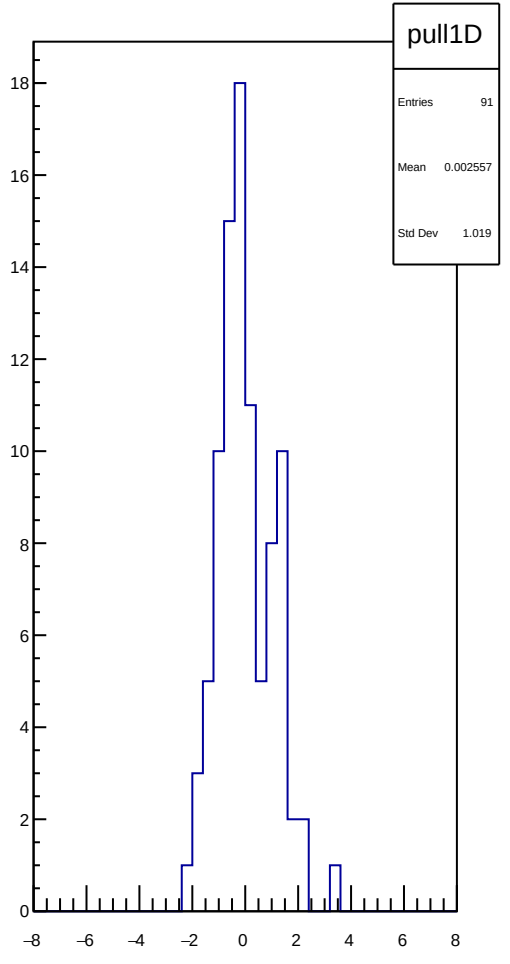

reg_asym_atl_dd_rms vs run
χ² / ndf 389.7 / 90
p0 1738 ± 1.294
1800
1780
1760
1740
1720
1700
1680

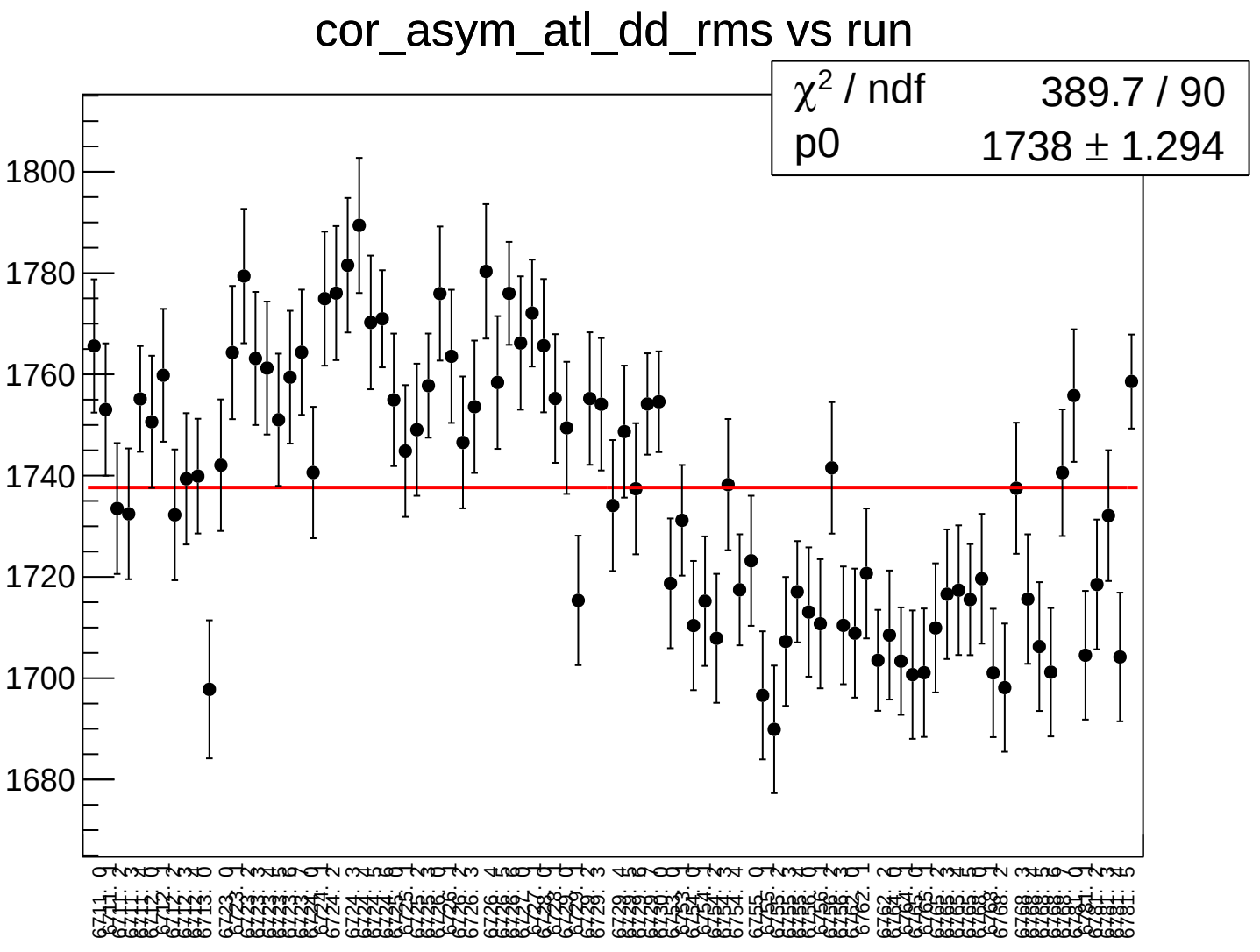

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 83.24 / 90
p0 346.3 ± 4017
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −79.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

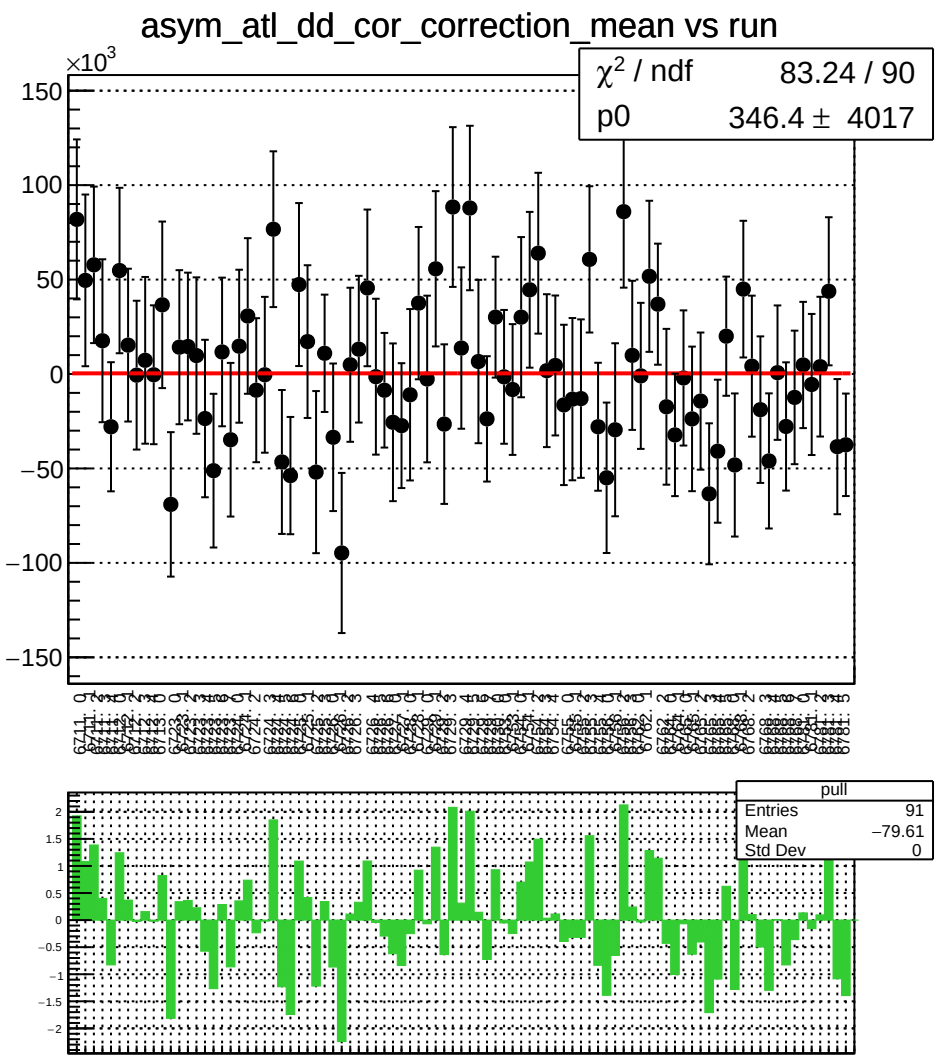

pull1D
Entries 91
Mean 0.0314
Std Dev 0.9559
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

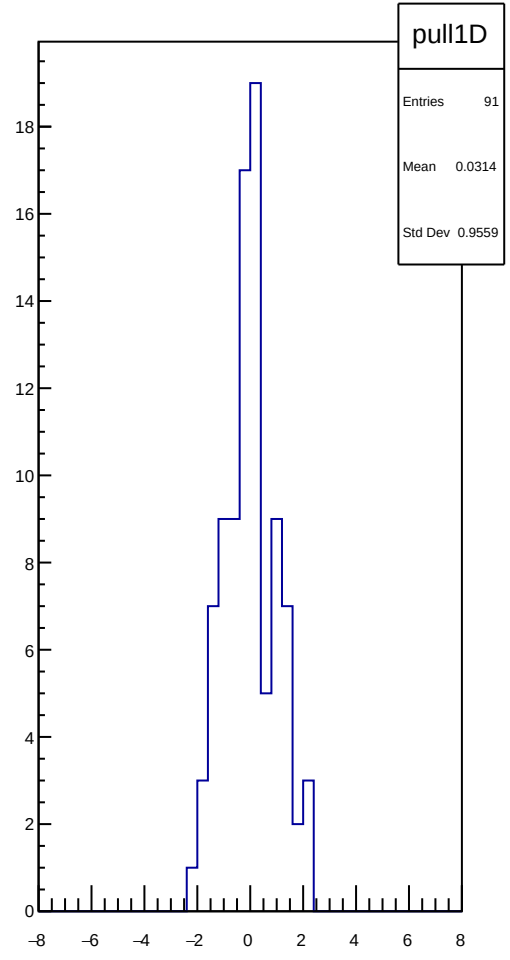

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 8032 / 90
p0 3807 ± 2.84
4400
4200
4000
3800
3600
3400
3200

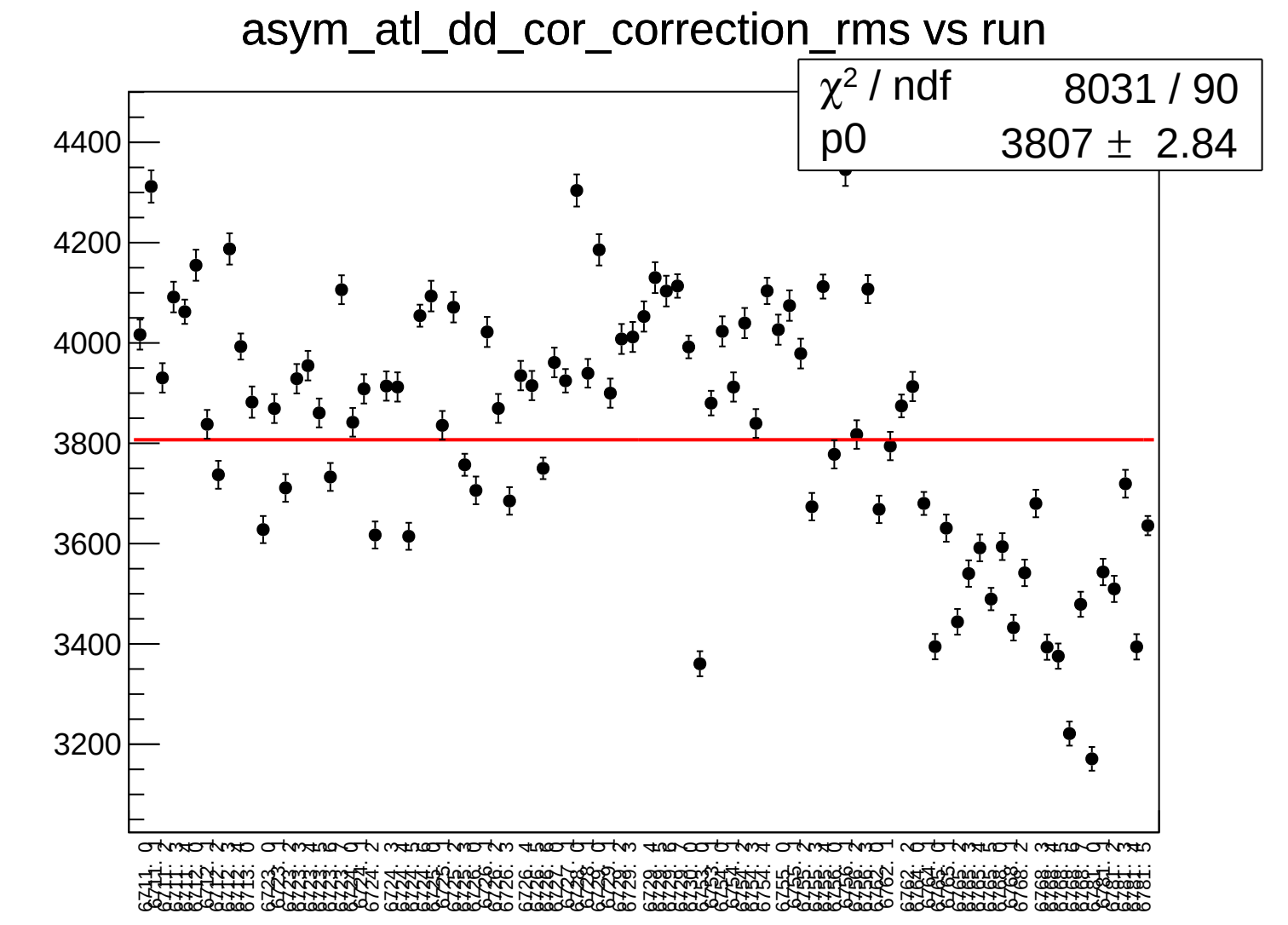

cor_asym_atl_dd_mean vs run
χ² / ndf 94.51 / 90
p0 903.9 ± 1830
pull
Entries 91
Mean −2478
Std Dev 0

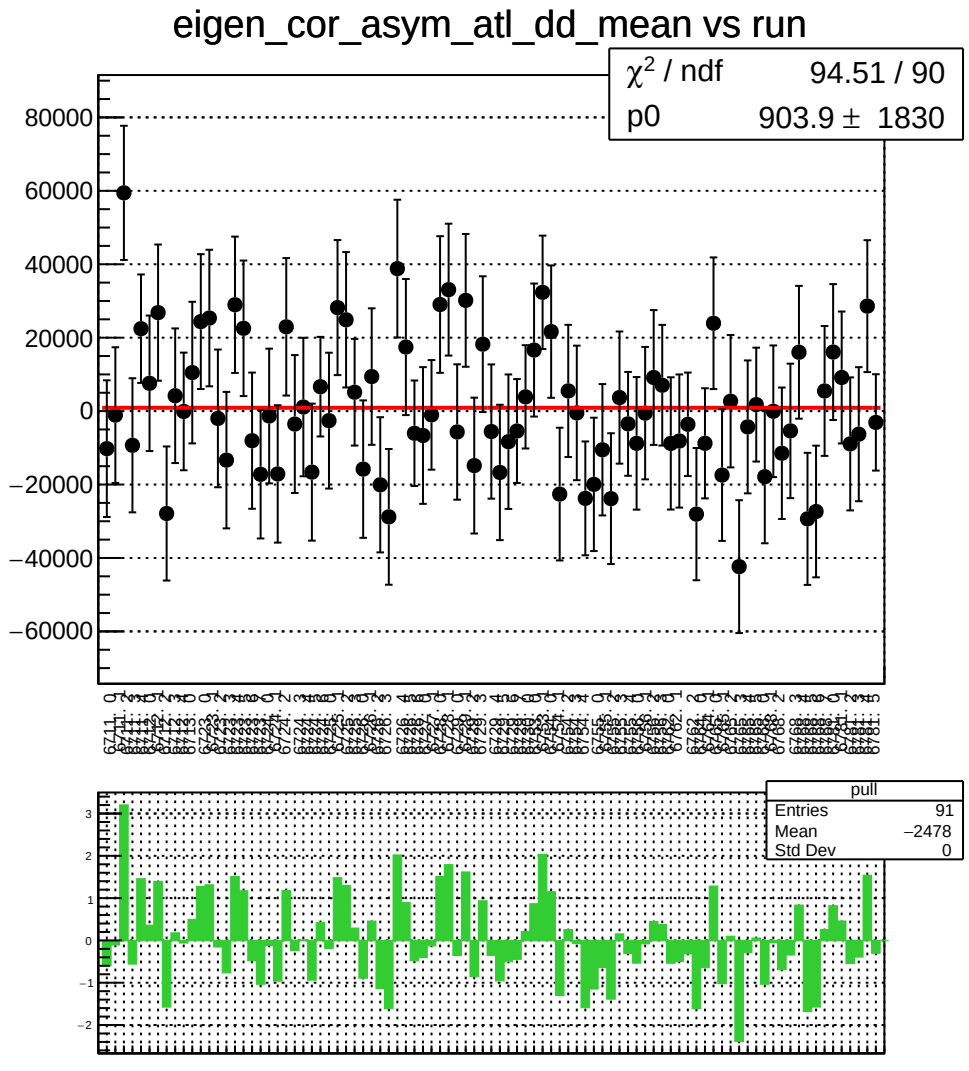

pull1D
Entries 91
Mean 0.002557
Std Dev 1.019

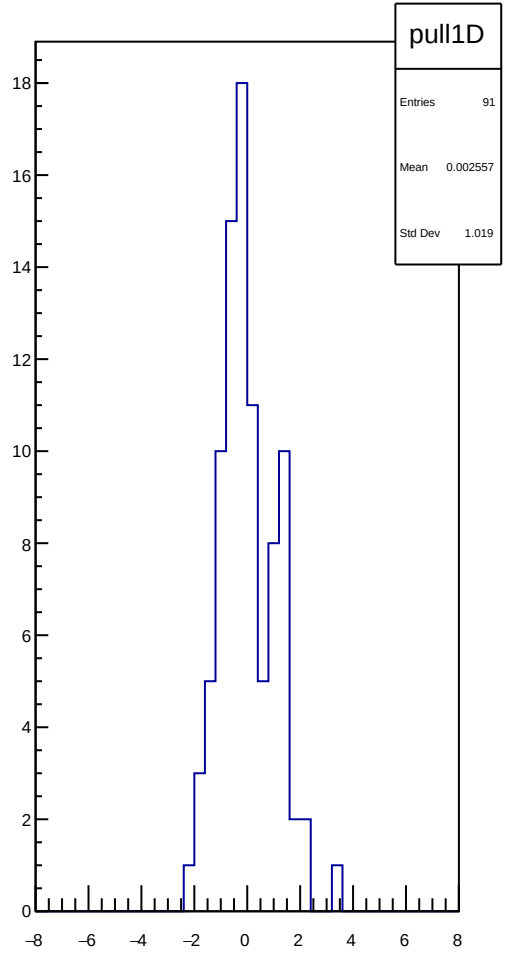

cor_asym_atl_dd_rms vs run
χ^2 / ndf 389.7 / 90
p0 1738 ± 1.294
1800
1780
1760
1740
1720
1700
1680

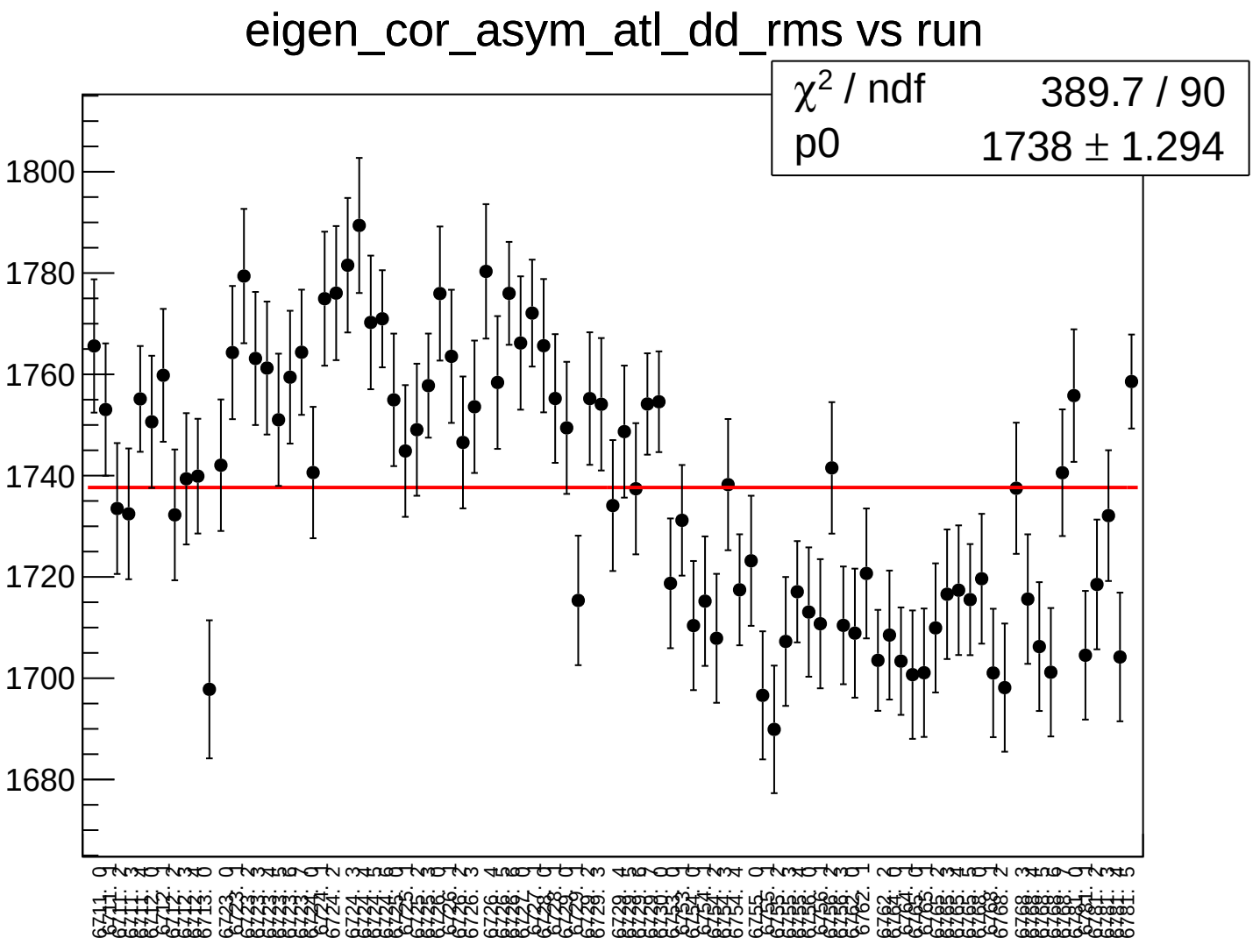

asym_atl_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 83.24 / 90
p0 346.4 ± 4017
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −79.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

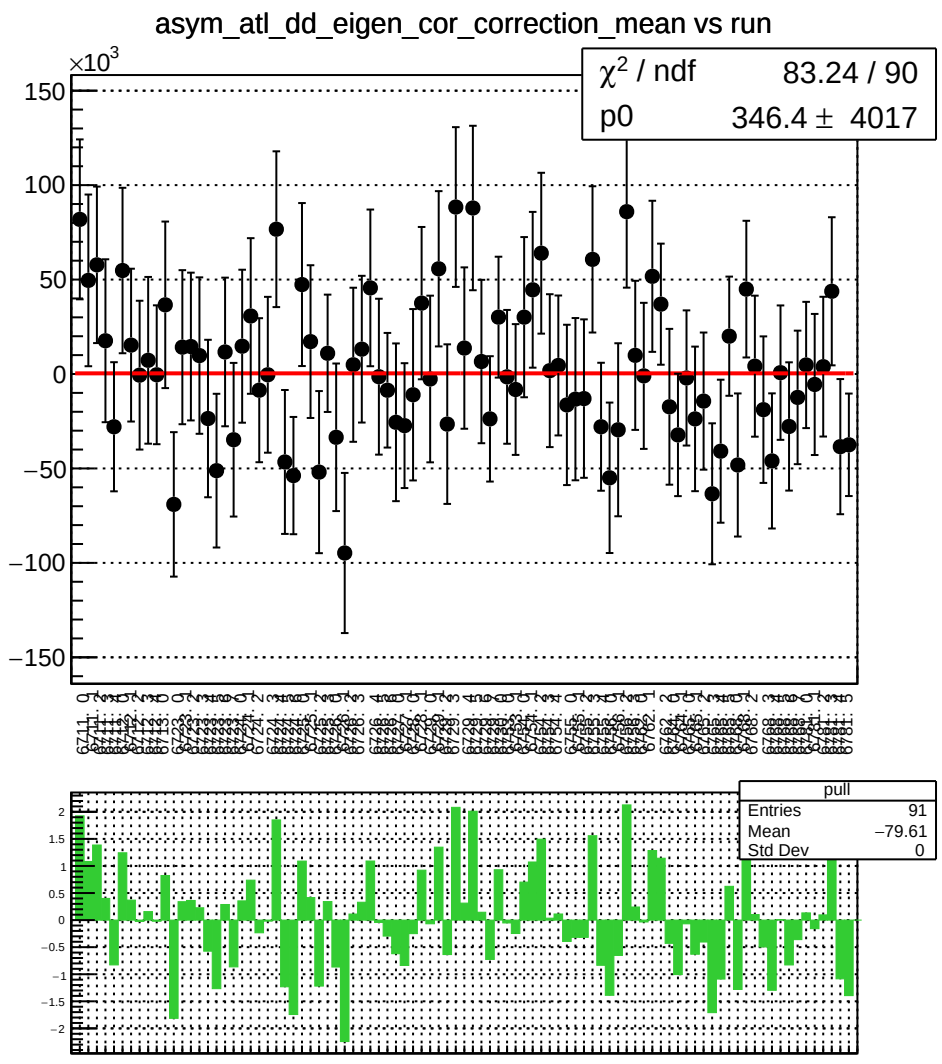

pull1D
Entries 91
Mean 0.0314
Std Dev 0.9559
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

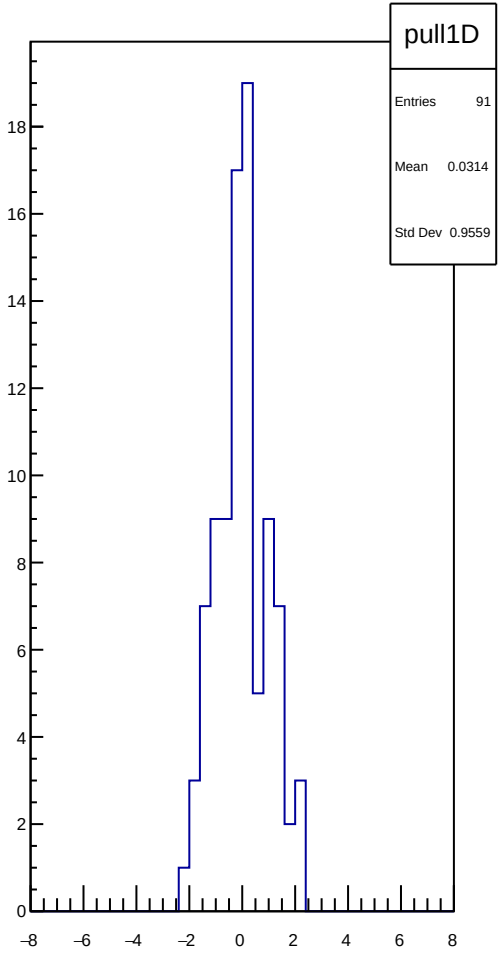

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 8031 / 90
p0 3807 ± 2.84
4400
4200
4000
3800
3600
3400
3200

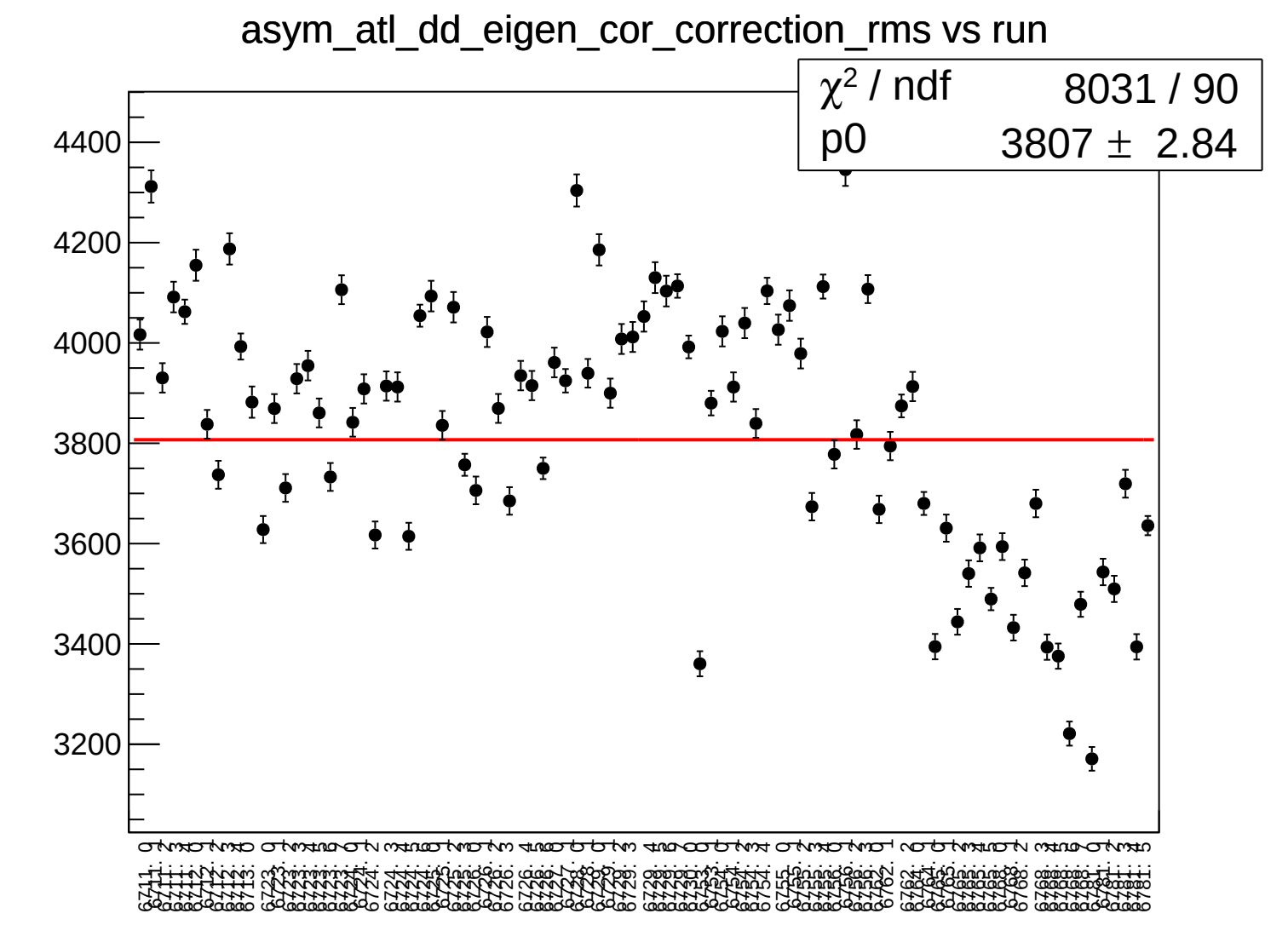

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 94.51 / 90
p0 903.9 ± 1830
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −2478
Std Dev 0
3
2
1
0
−1
−2

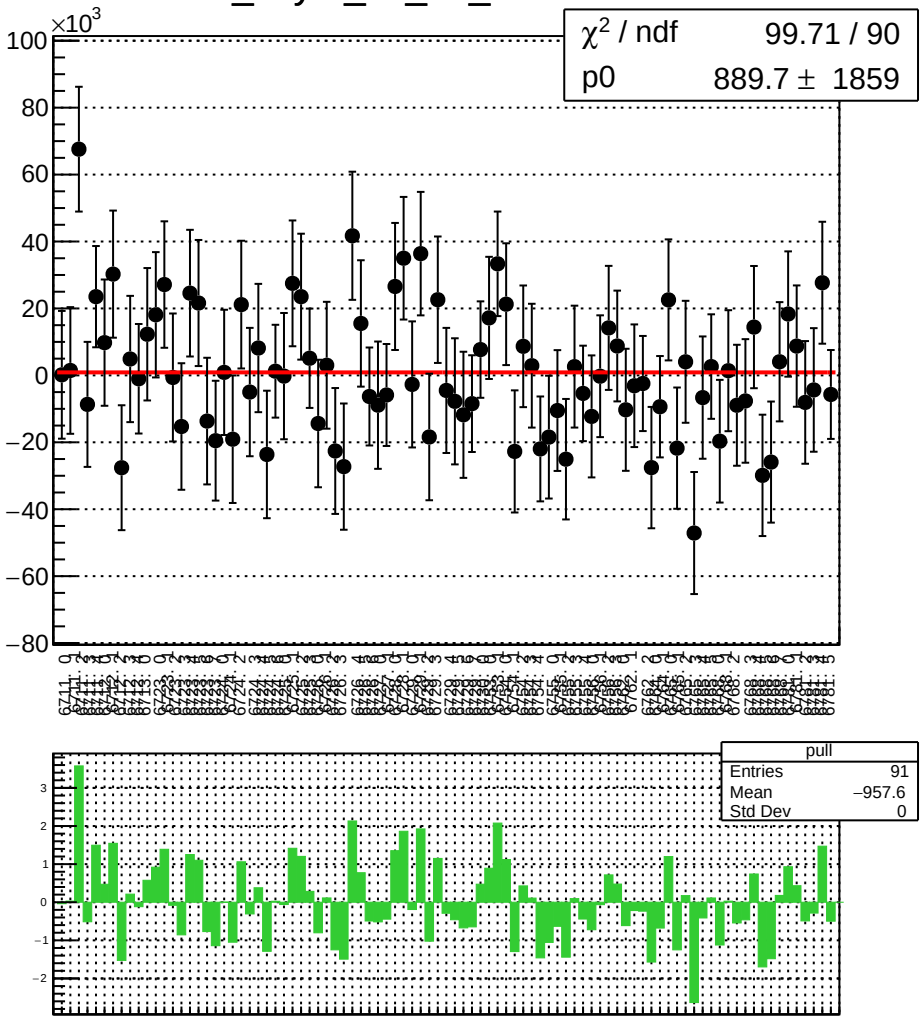

pull1D
Entries 91
Mean 0.002557
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

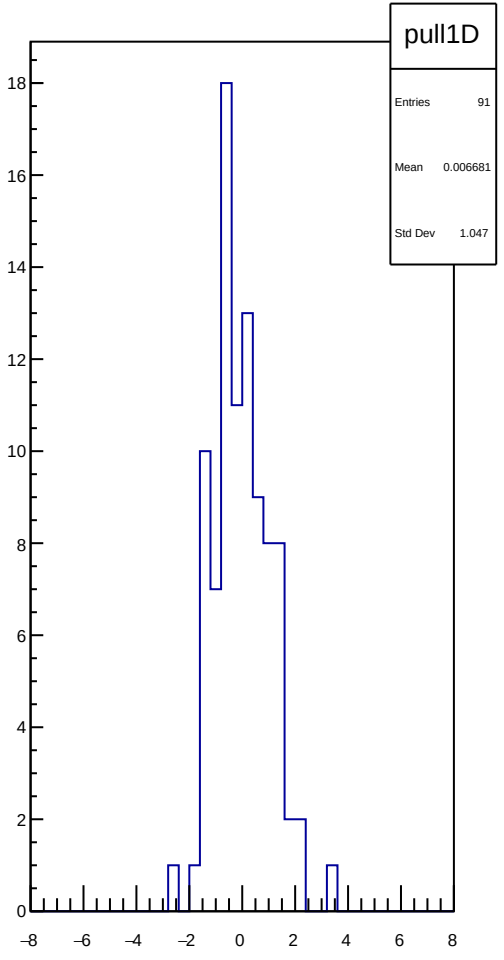

eigen_cor_asym_atl_dd_rms vs run
χ^2 / ndf 389.7 / 90
p0 1738 ± 1.294
1800
1780
1760
1740
1720
1700
1680

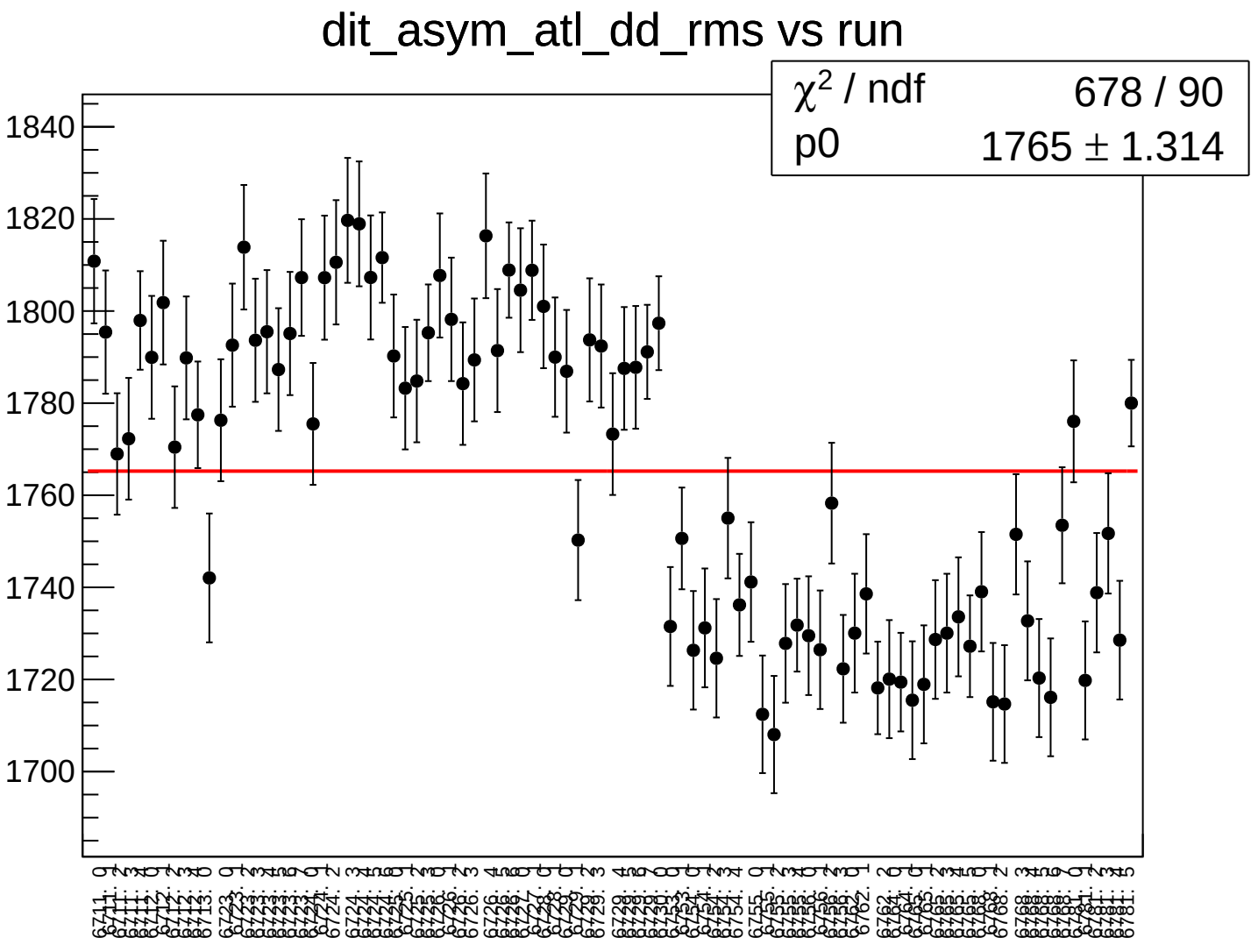

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 83.24 / 90
p0 346.4 ± 4017
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −79.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

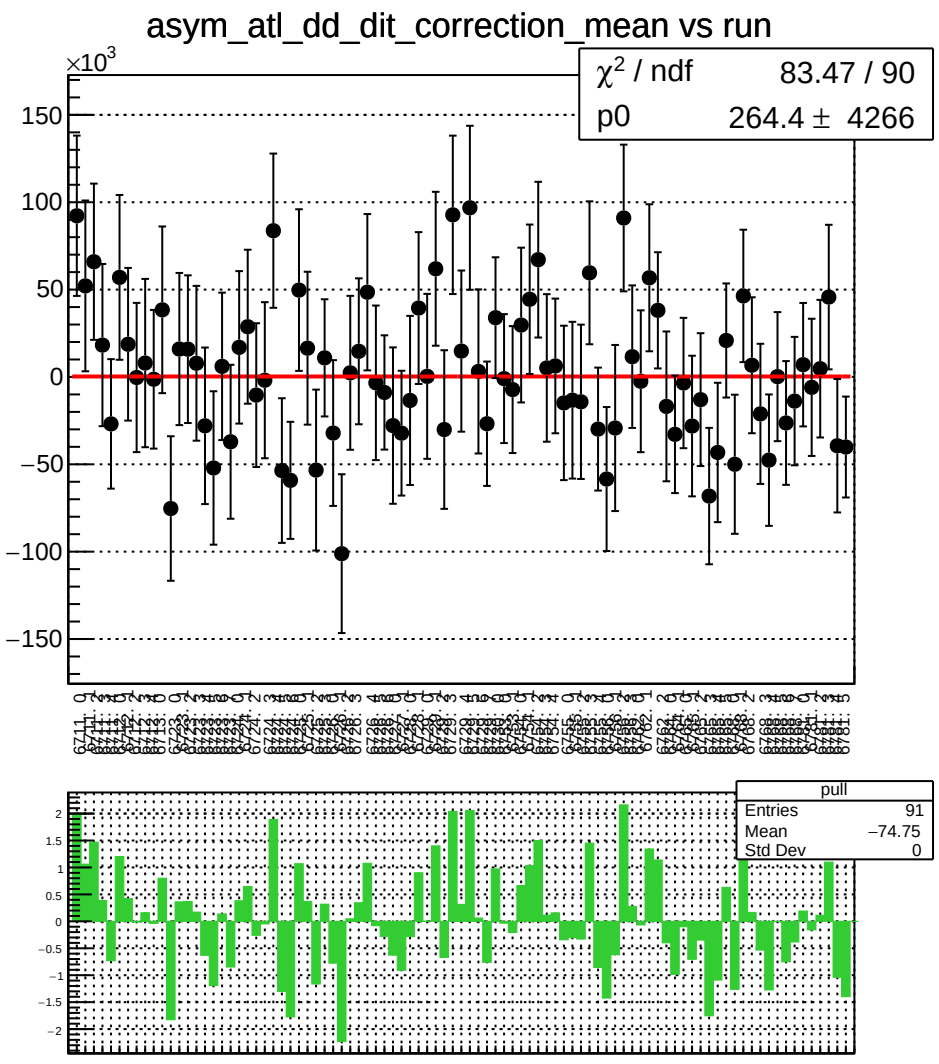

pull1D
Entries 91
Mean 0.0314
Std Dev 0.9559
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

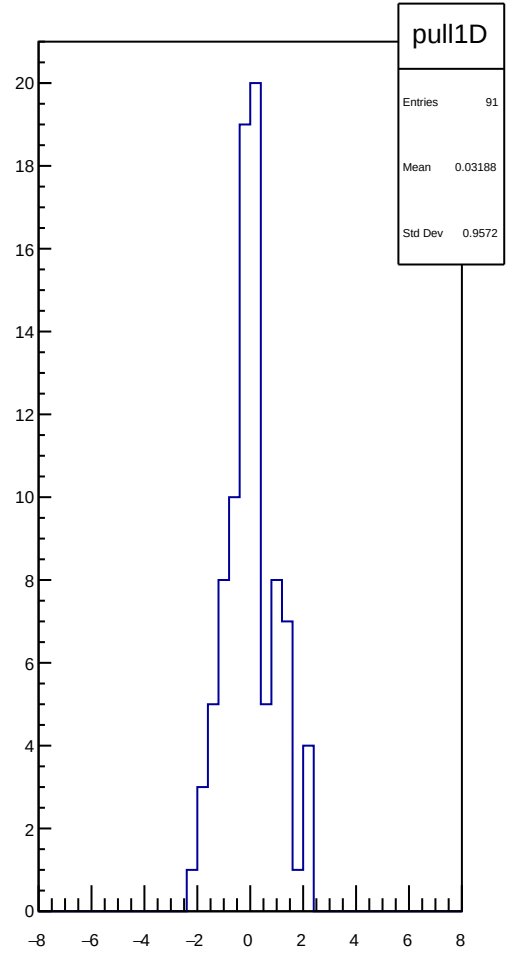

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 8031 / 90
p0 3807 ± 2.84
4400
4200
4000
3800
3600
3400
3200

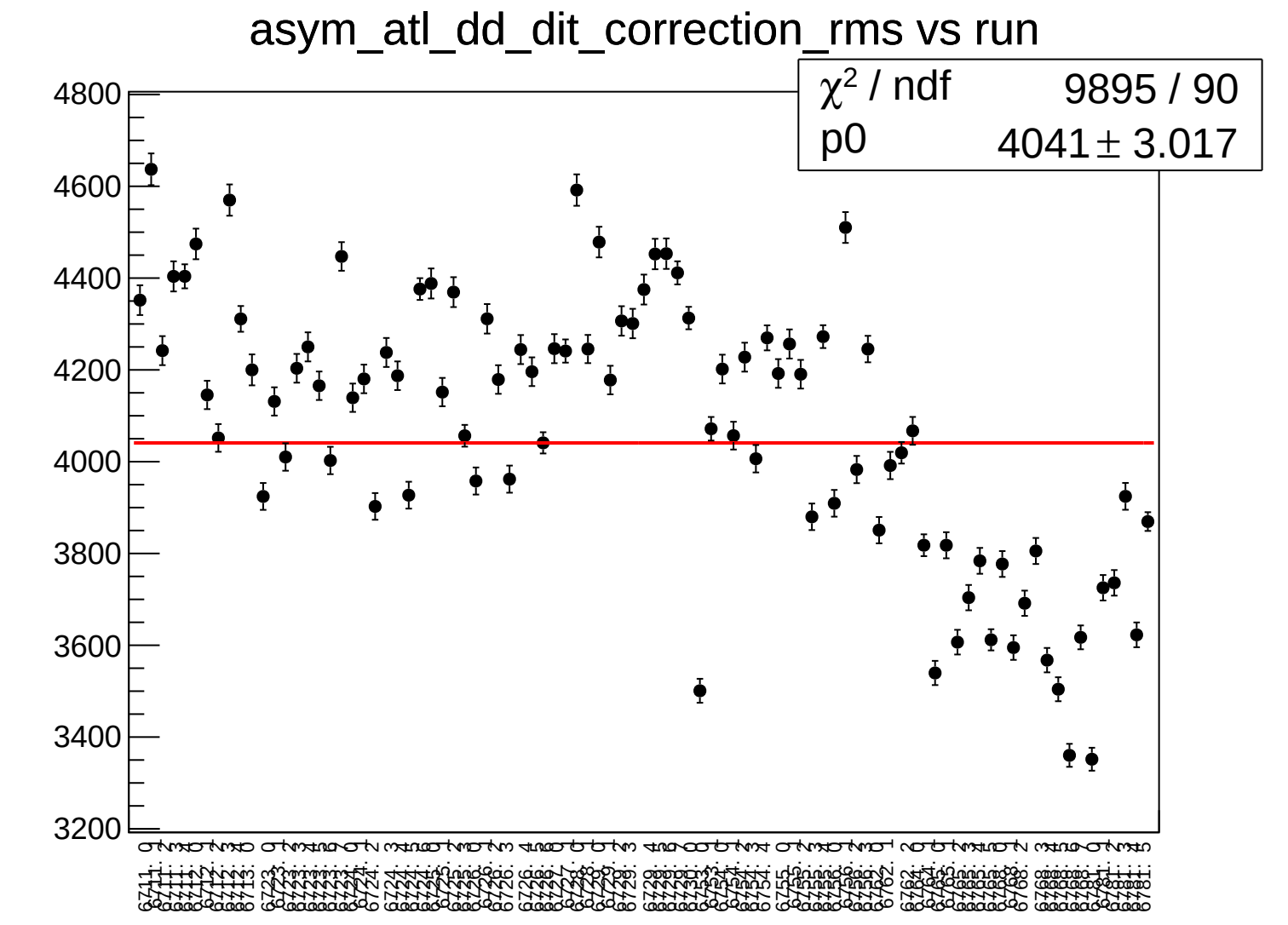

dit_asym_atl_dd_mean vs run
χ² / ndf 99.71 / 90
p0 889.7 ± 1859
×10³
pull
Entries 91
Mean −957.6
Std Dev 0

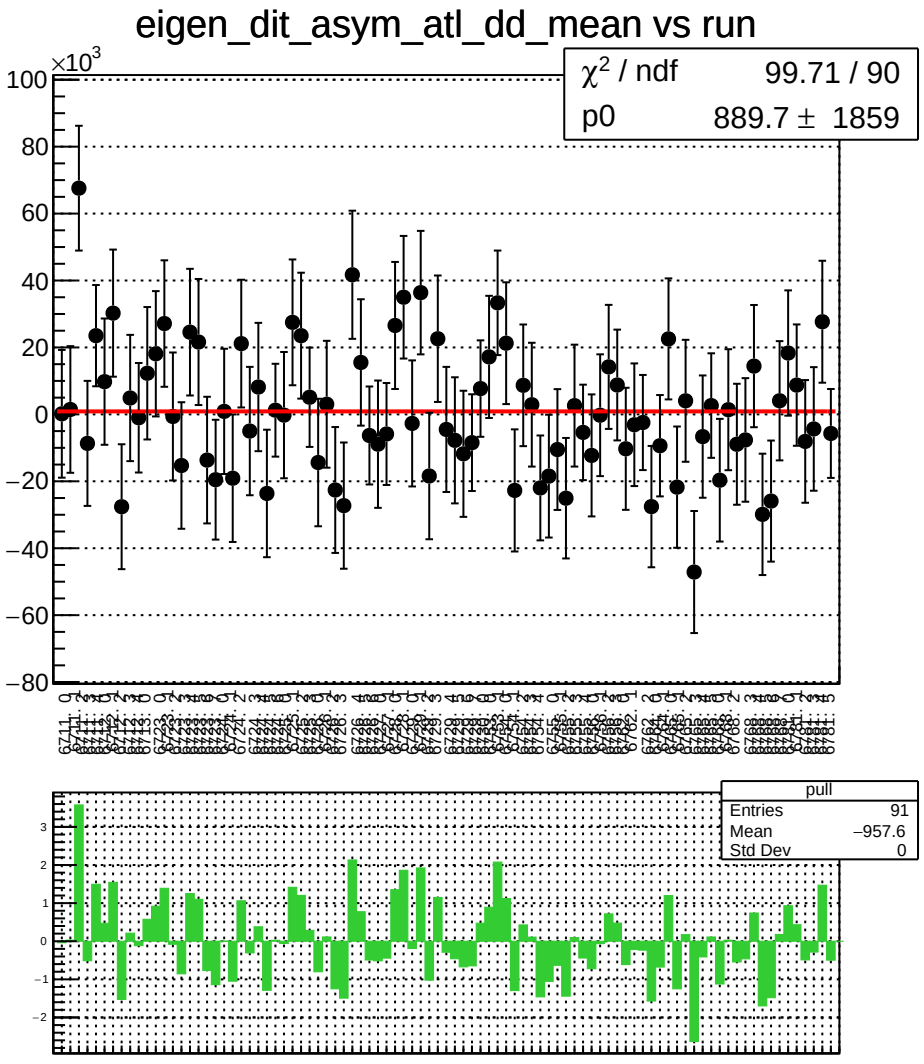

pull1D
Entries 91
Mean 0.006681
Std Dev 1.047

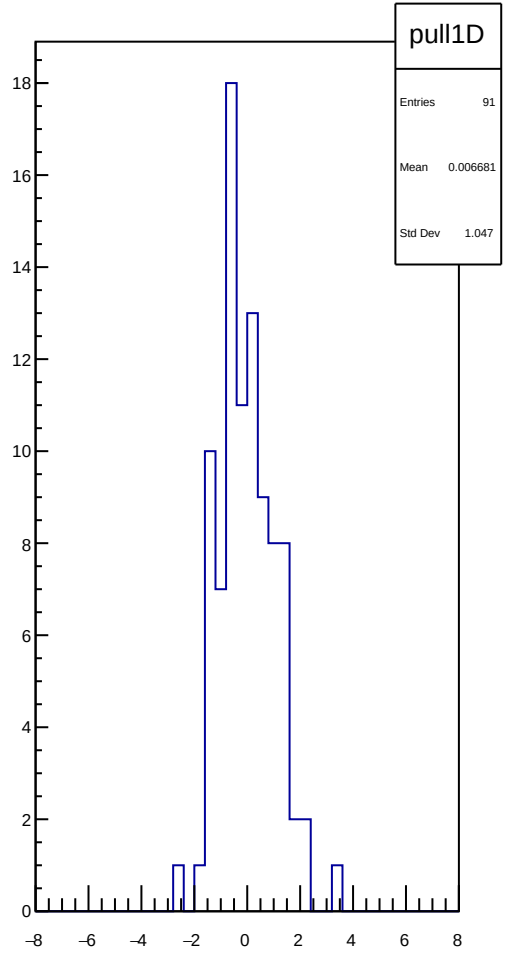

dit_asym_atl_dd_rms vs run
χ² / ndf 678 / 90
p0 1765 ± 1.314
1840
1820
1800
1780
1760
1740
1720
1700

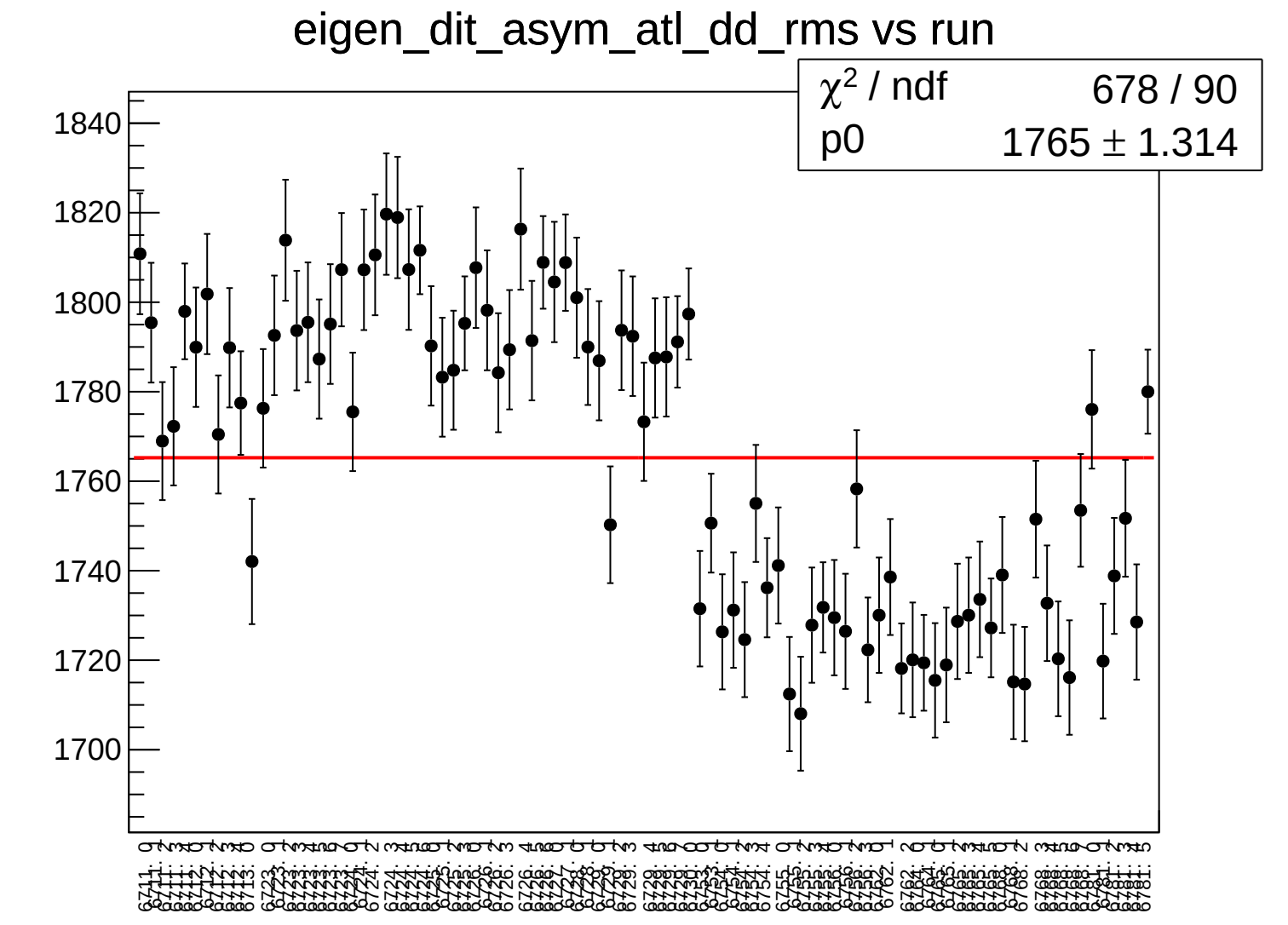

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 83.47 / 90
p0 264.4 ± 4266
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −74.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

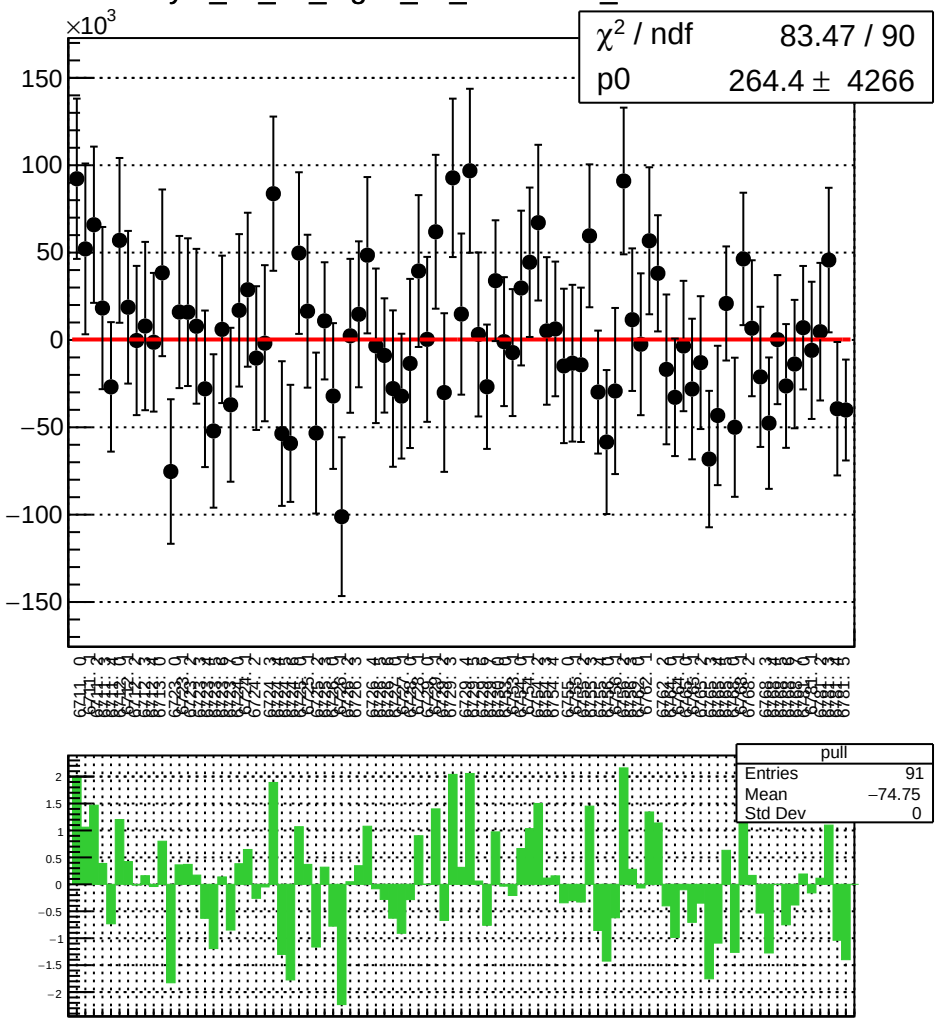

pull1D
Entries 91
Mean 0.03188
Std Dev 0.9572
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

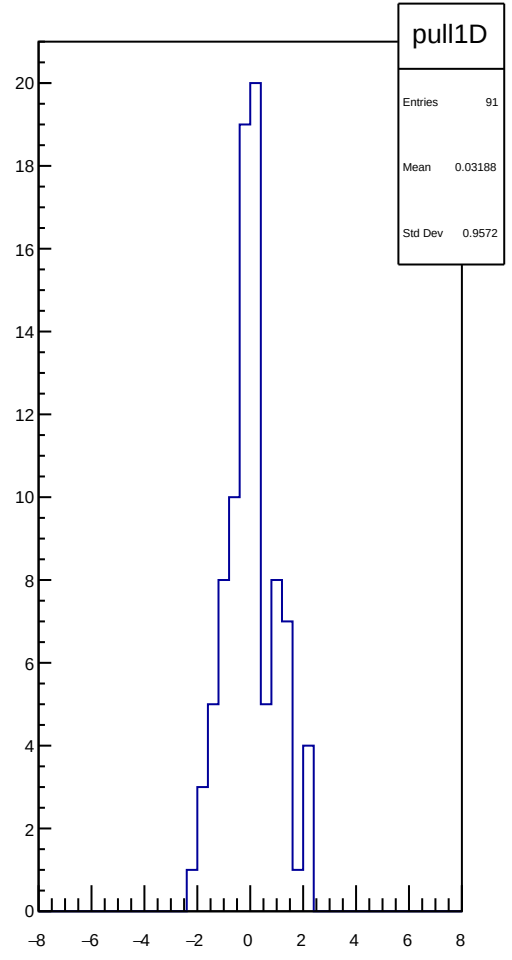

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 9895 / 90
p0 4041 ± 3.017
4800
4600
4400
4200
4000
3800
3600
3400
3200

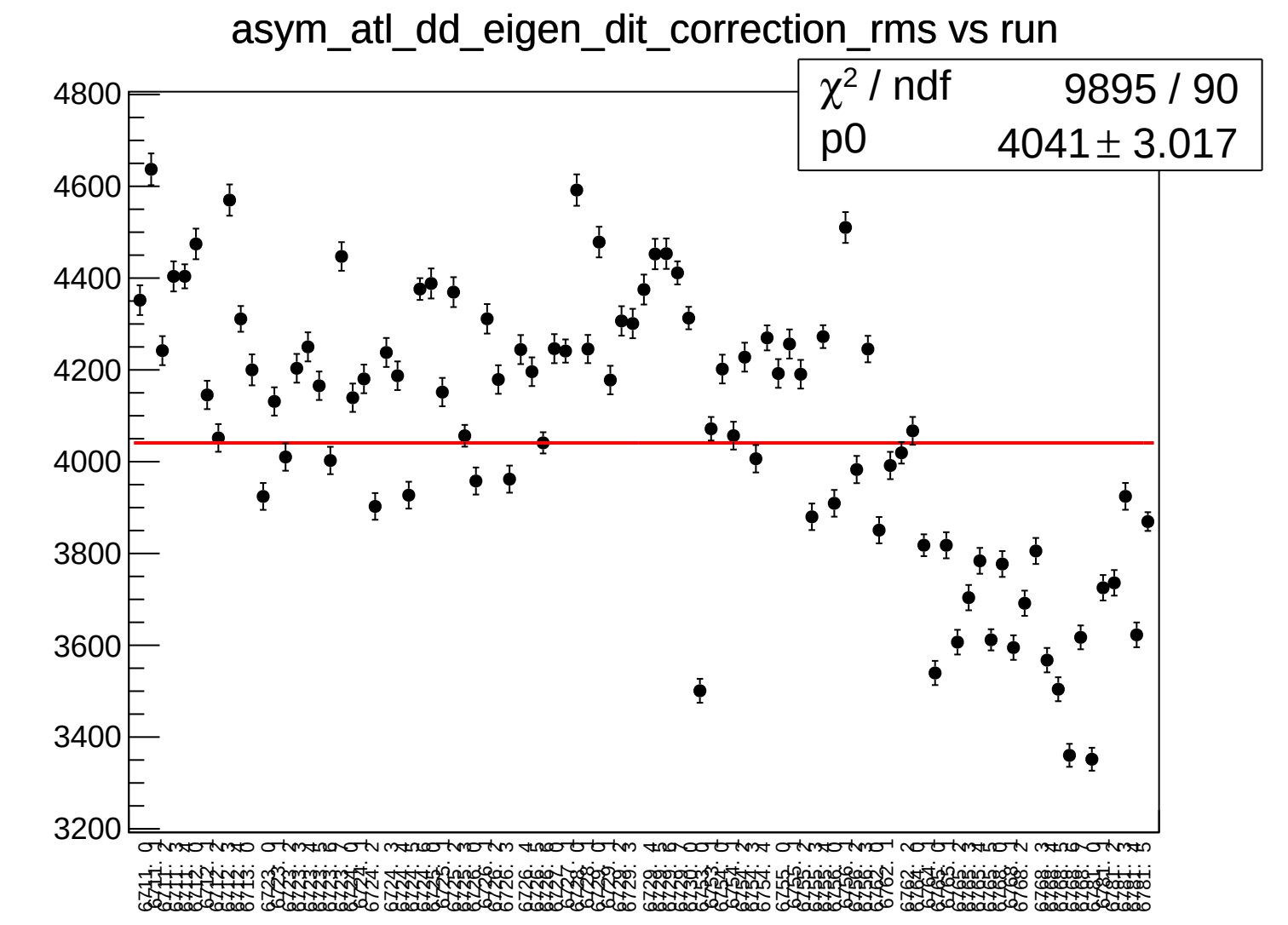

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 99.71 / 90
p0 889.7 ± 1859
×10³
pull
Entries 91
Mean −957.6
Std Dev 0

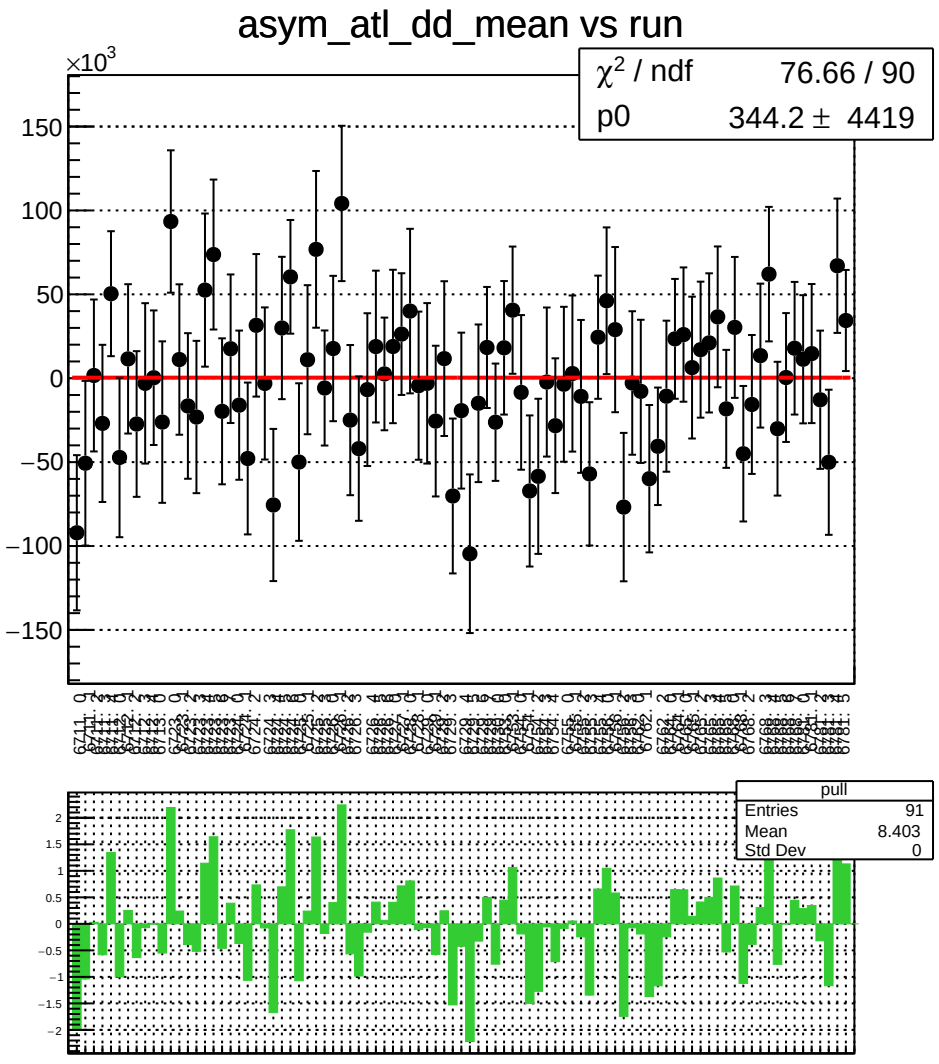

pull1D
Entries 91
Mean 0.006681
Std Dev 1.047

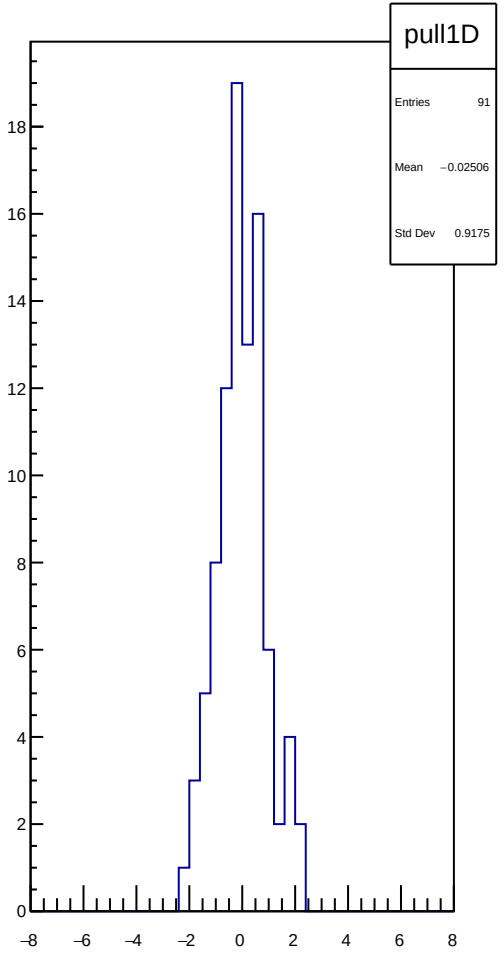

eigen_dit_asym_atl_dd_rms vs run
χ^2 / ndf 678 / 90
p0 1765 ± 1.314
1840
1820
1800
1780
1760
1740
1720
1700

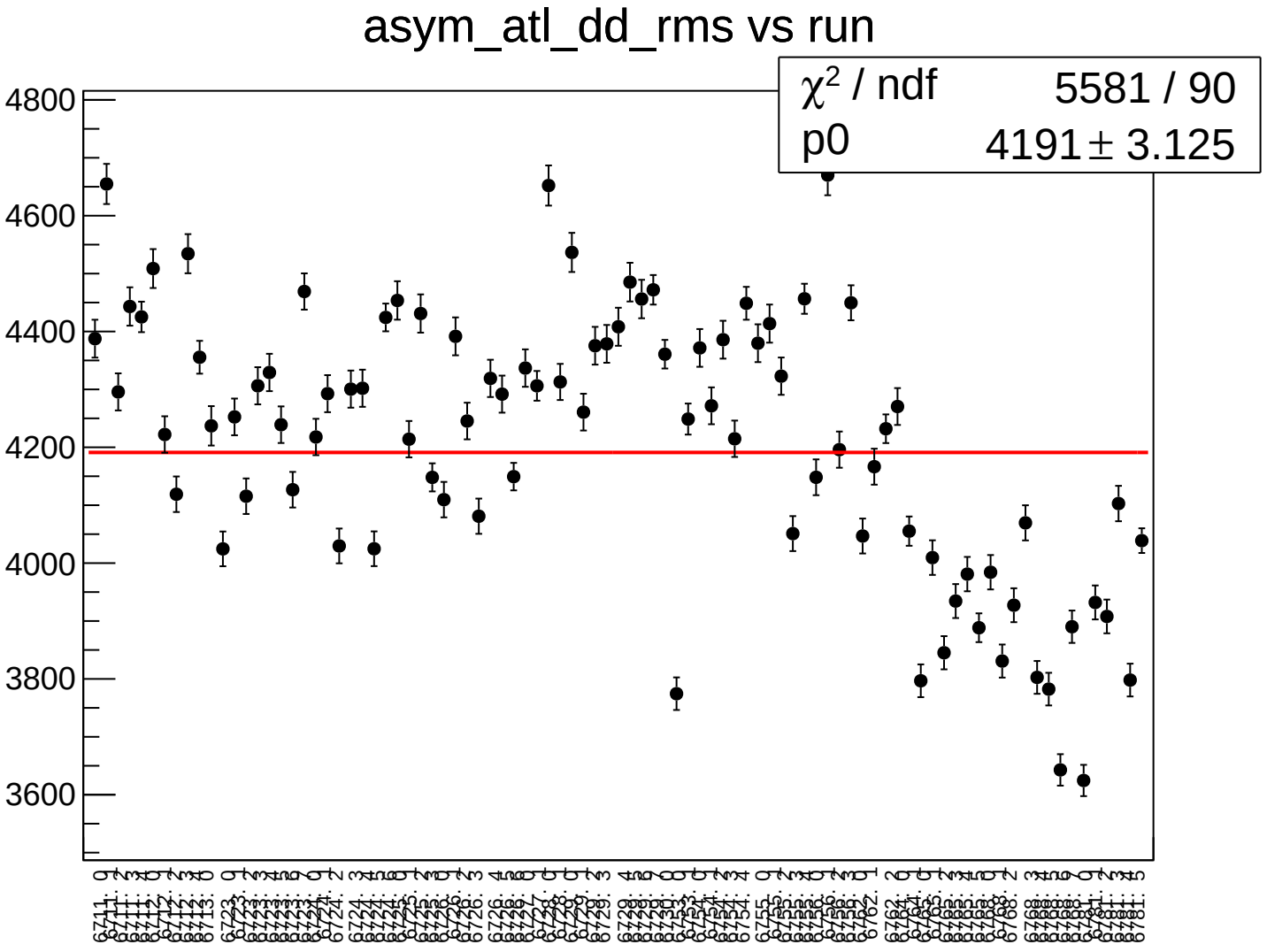

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.47 / 90
p0 264.4 ± 4266
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −74.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

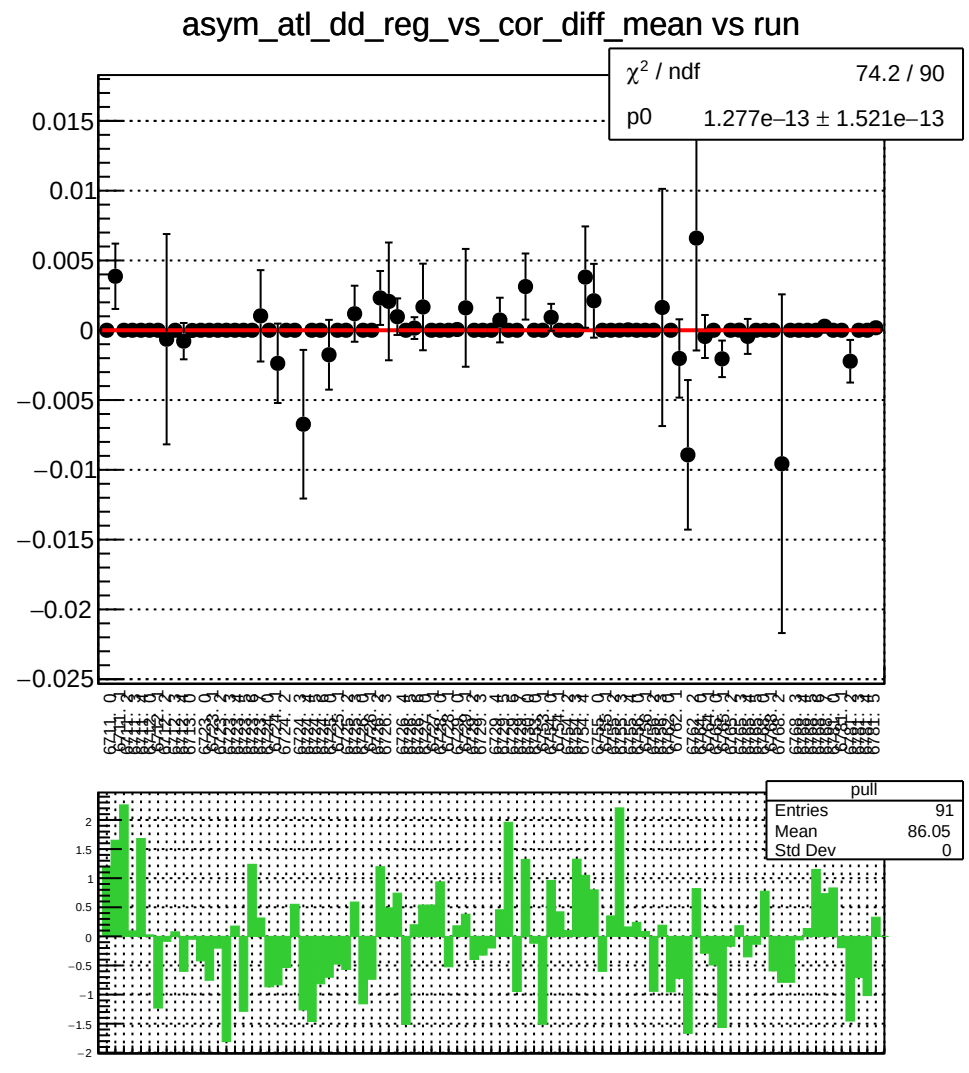

pull1D
Entries 91
Mean 0.03188
Std Dev 0.9572
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

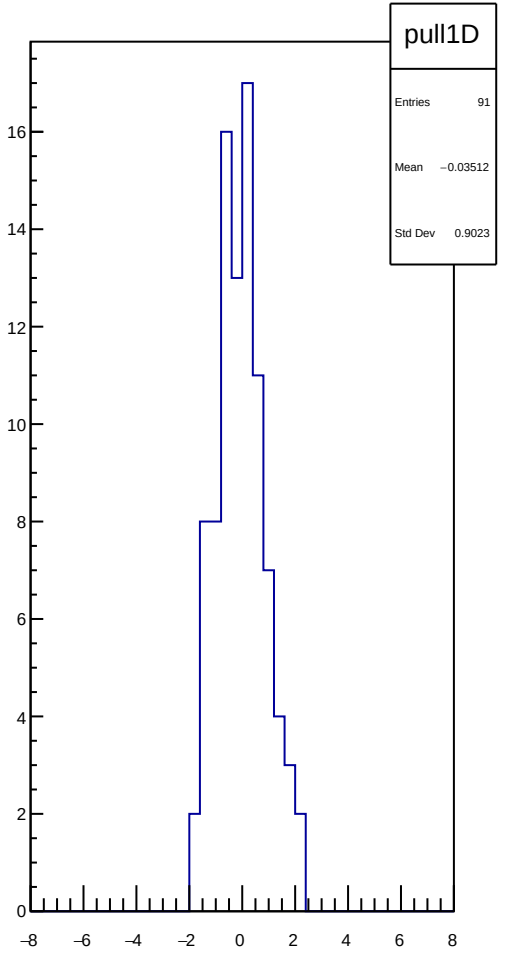

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 9895 / 90
p0 4041 ± 3.017
4800
4600
4400
4200
4000
3800
3600
3400
3200

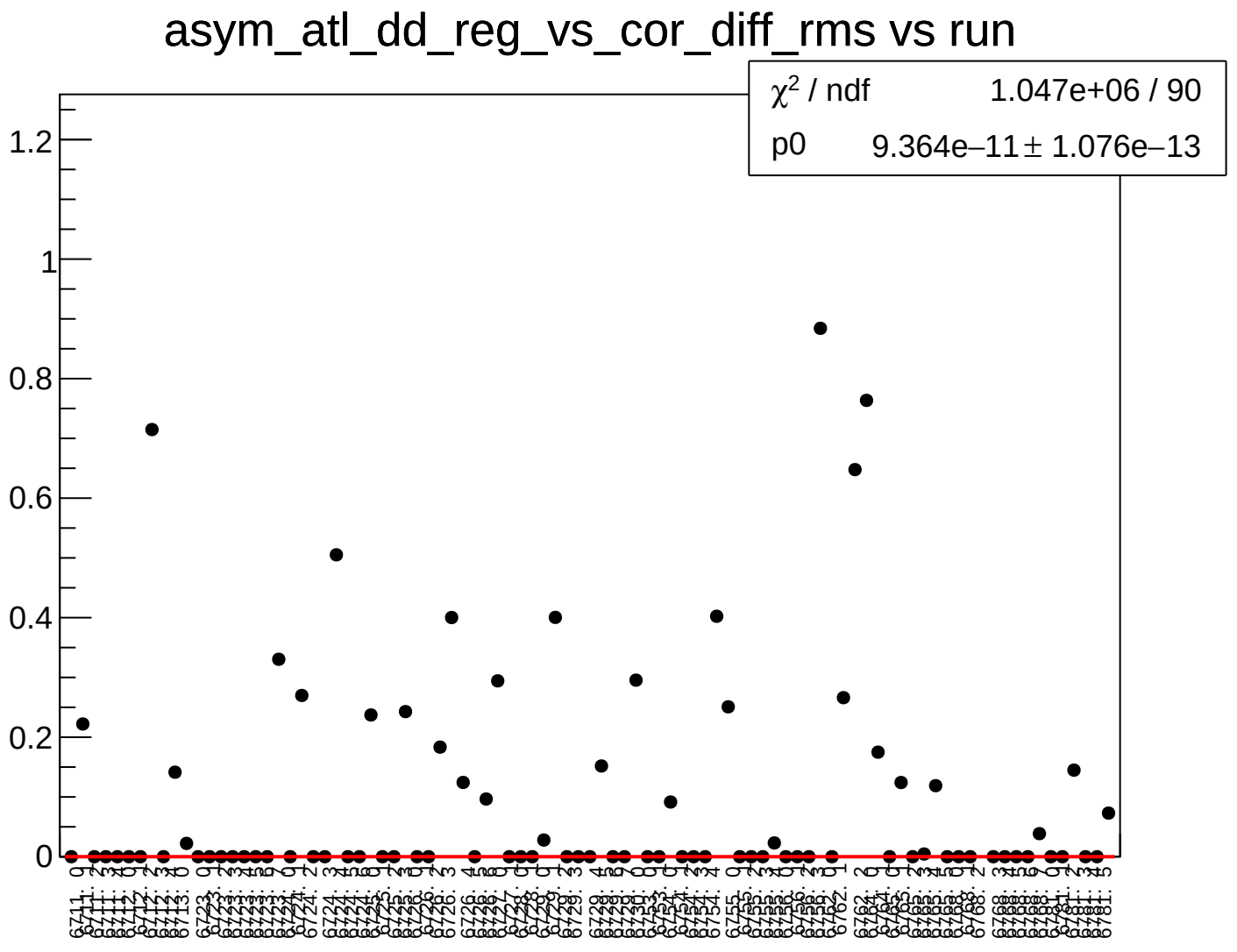

asym_atl_dd_mean vs run
×10^3
χ² / ndf 76.66 / 90
p0 344.2 ± 4419
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 8.403
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

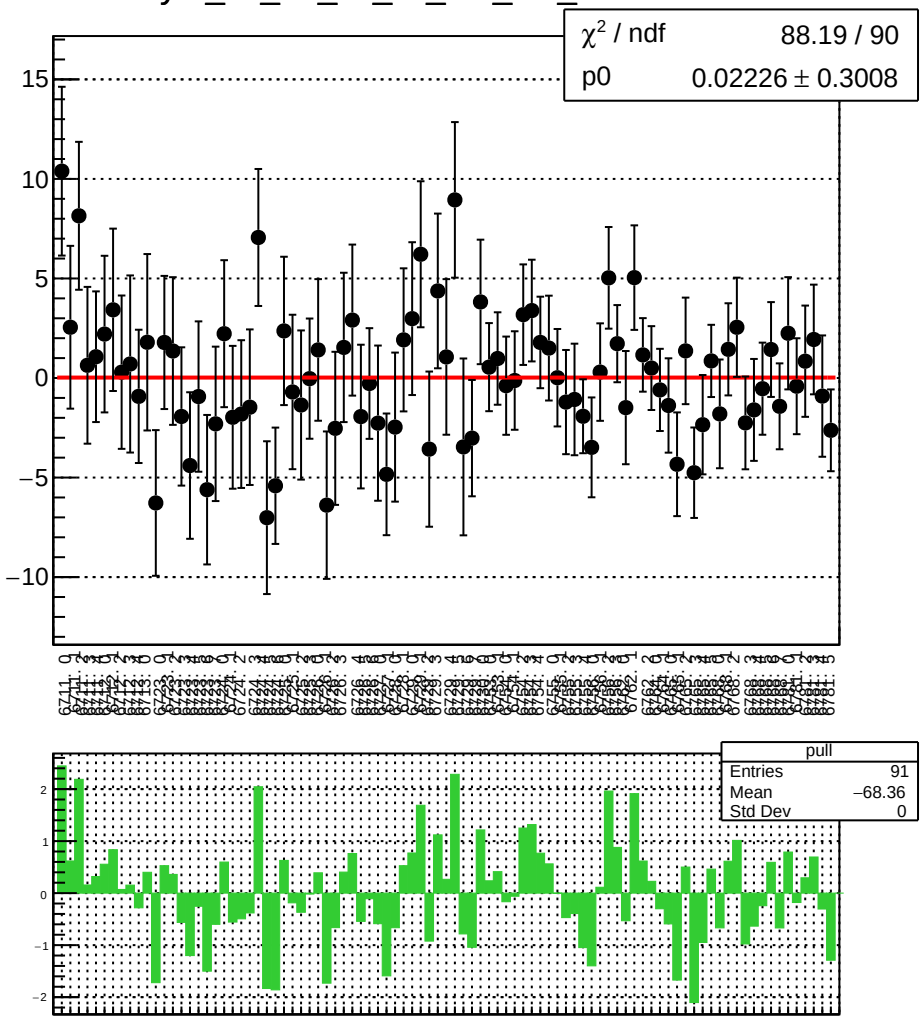

pull1D
Entries 91
Mean −0.02506
Std Dev 0.9175
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

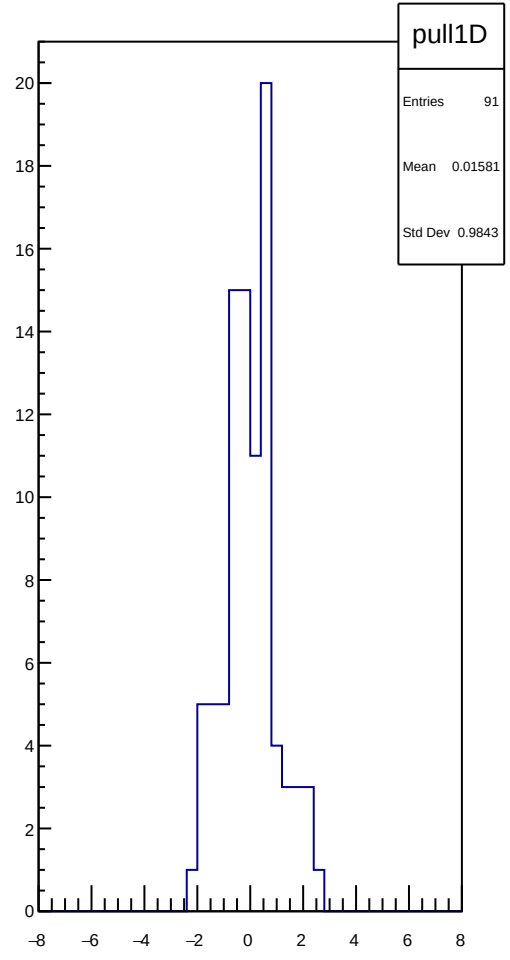

asym_atl_dd_rms vs run
χ² / ndf 5581 / 90
p0 4191 ± 3.125
4800
4600
4400
4200
4000
3800
3600

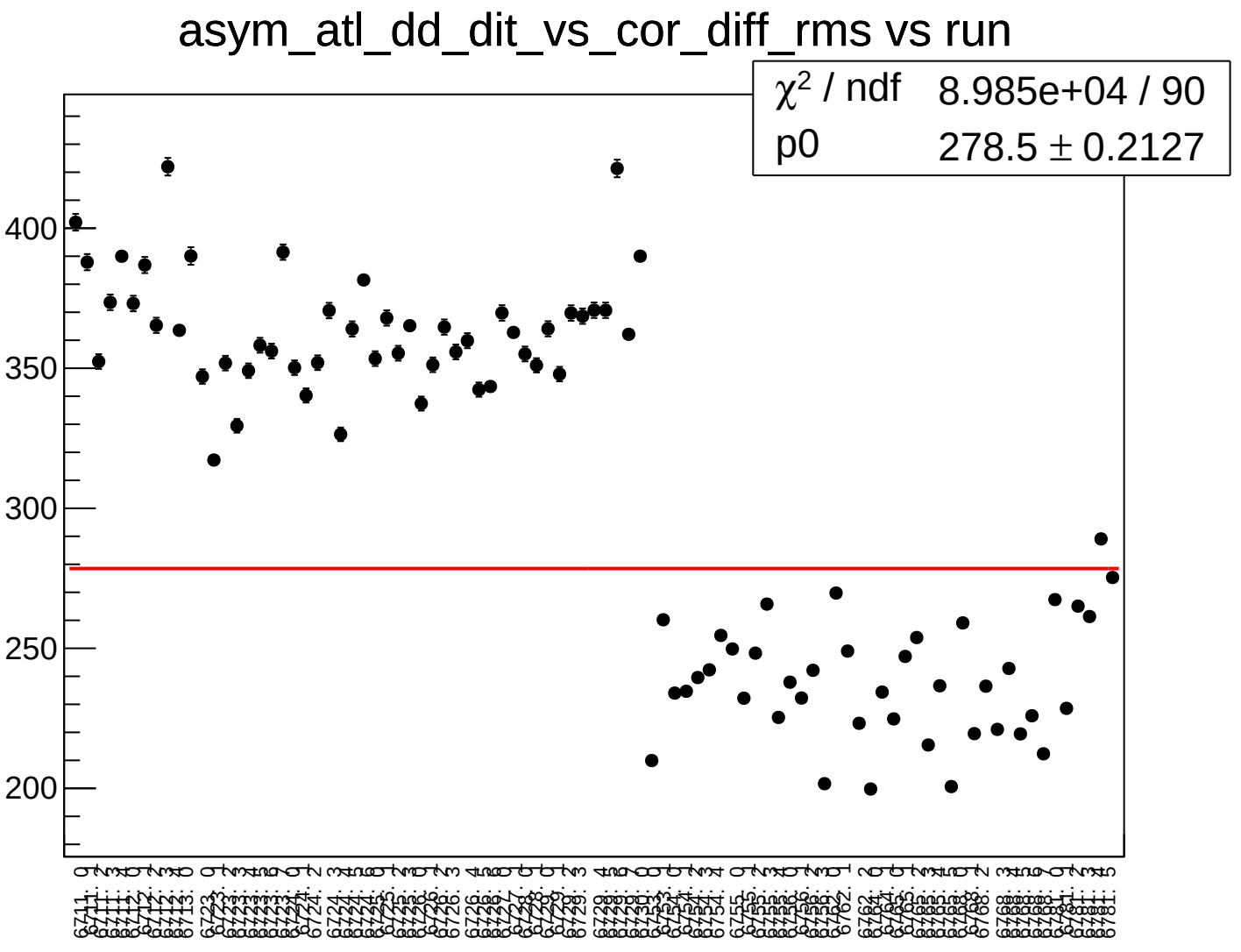

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.2 / 90
p0 1.277e−13 ± 1.521e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 91
Mean 86.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

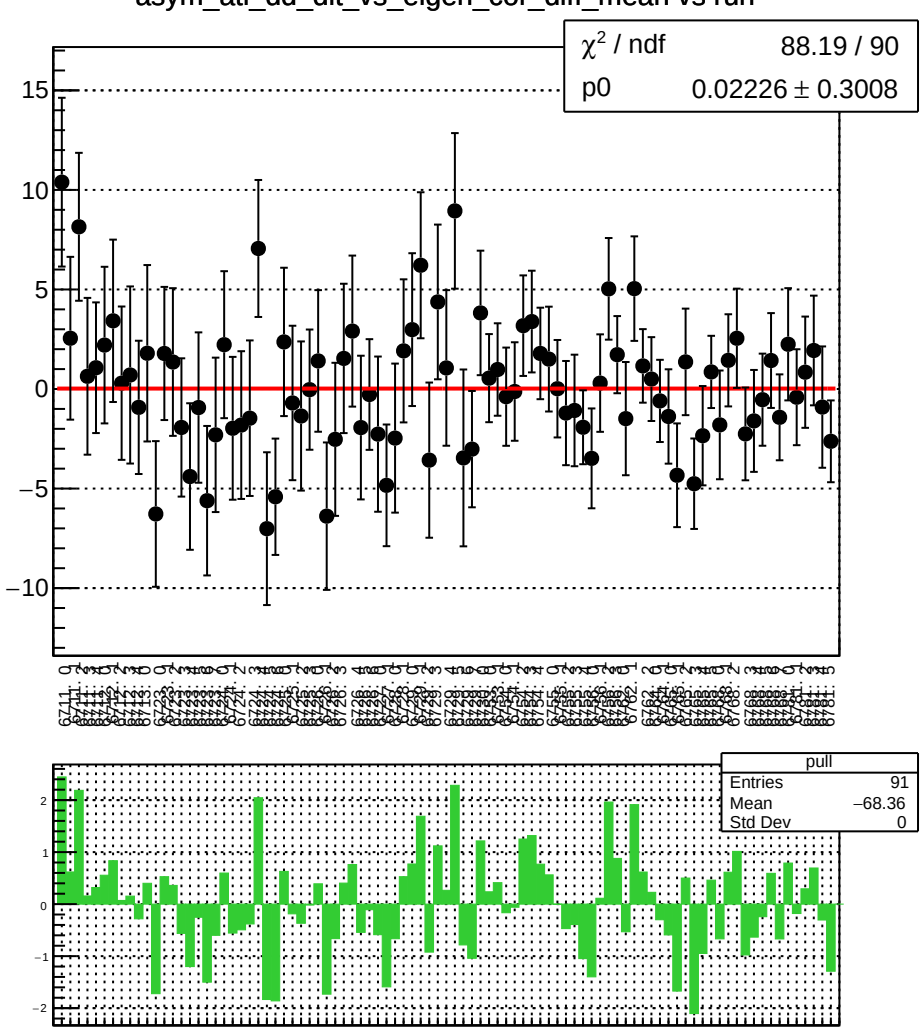

pull1D
Entries 91
Mean −0.03512
Std Dev 0.9023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

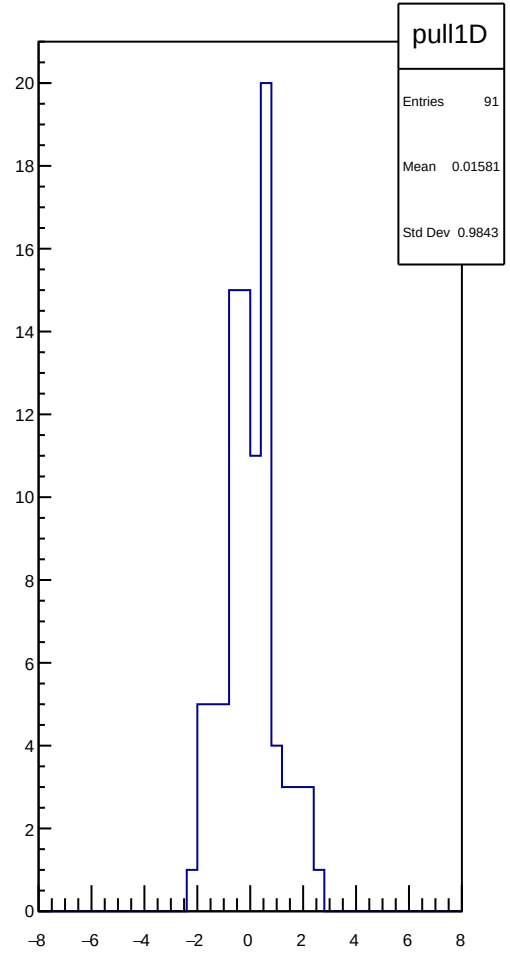

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.047e+06 / 90
p0 9.364e−11 ± 1.076e−13
1.2
1
0.8
0.6
0.4
0.2
0

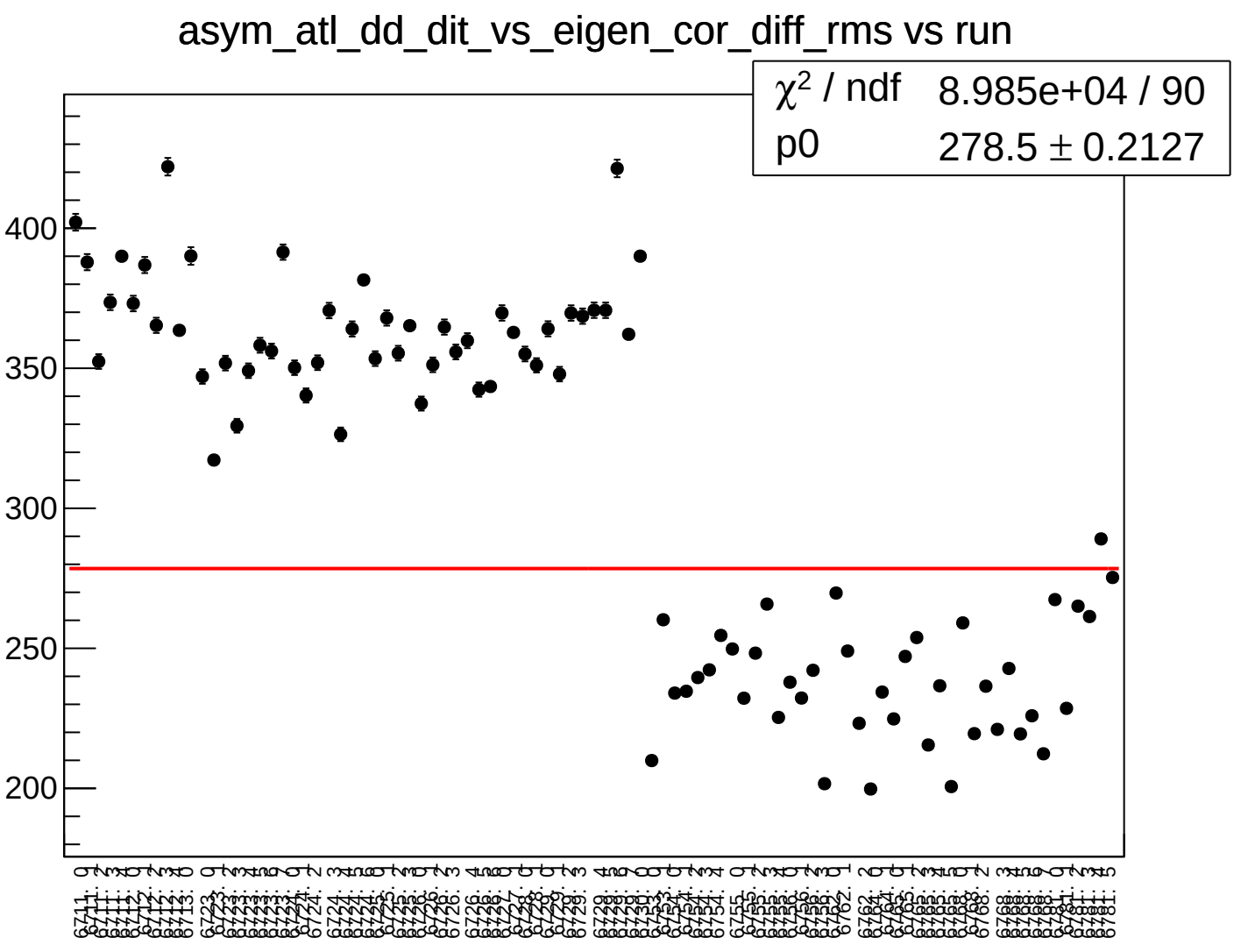

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.19 / 90
p0 0.02226 ± 0.3008
pull
Entries 91
Mean −68.36
Std Dev 0

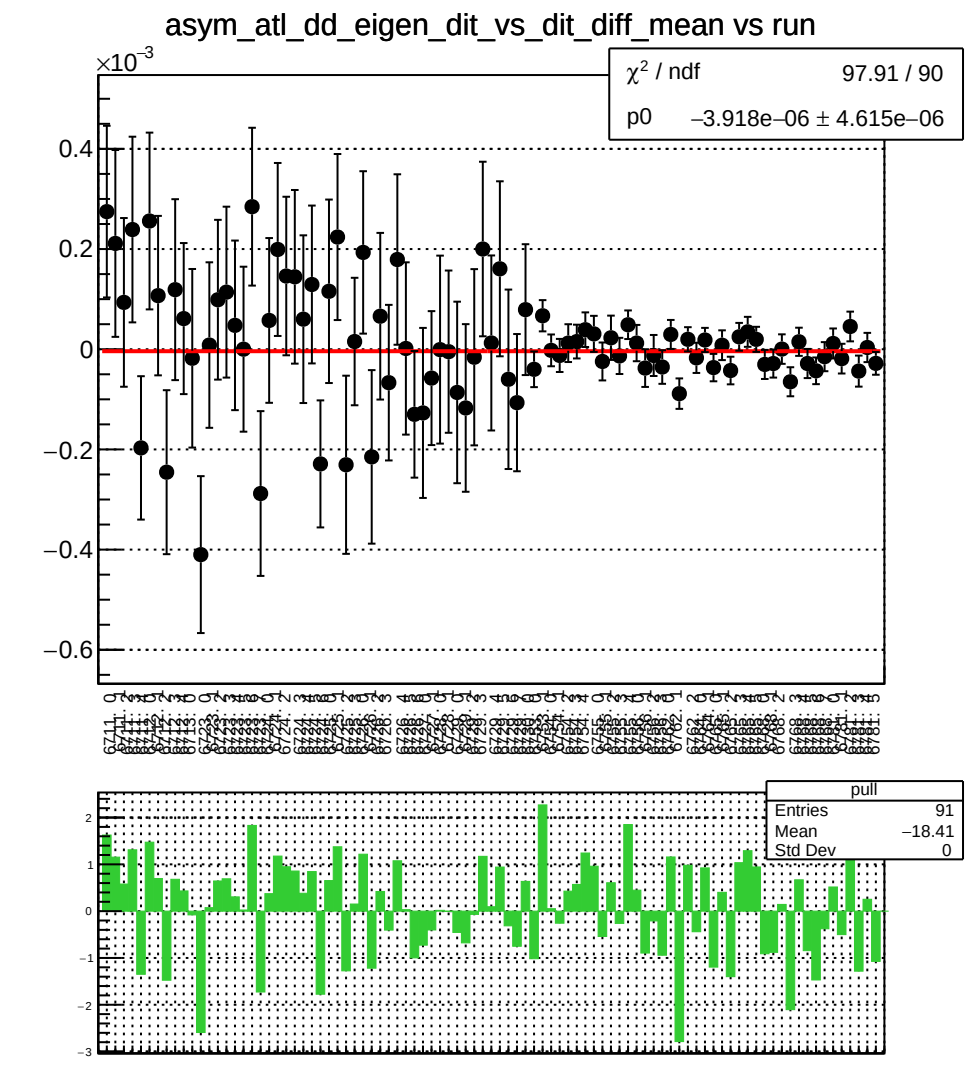

pull1D
Entries 91
Mean 0.01581
Std Dev 0.9843

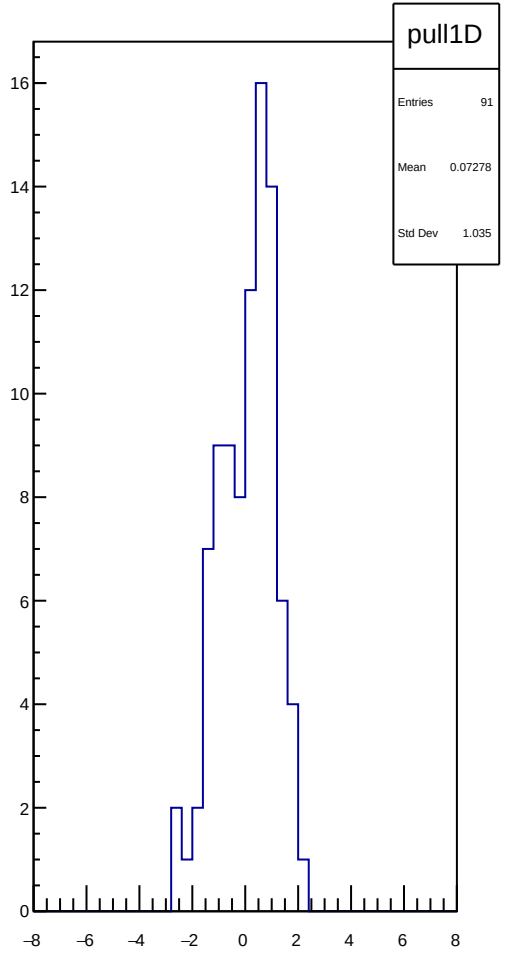

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.985e+04 / 90
p0 278.5 ± 0.2127
400
350
300
250
200

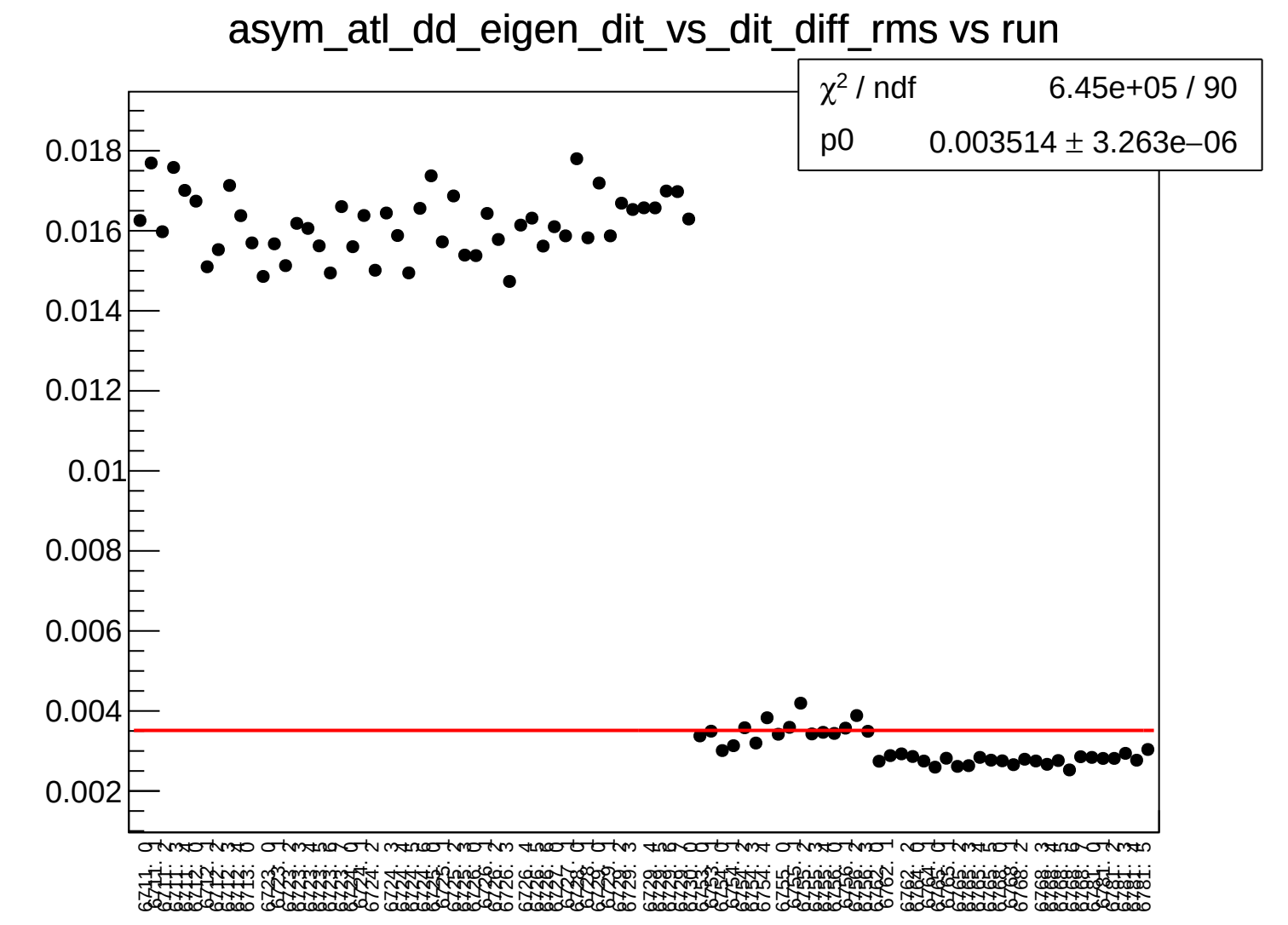

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.19 / 90
p0 0.02226 ± 0.3008
pull
Entries 91
Mean −68.36
Std Dev 0

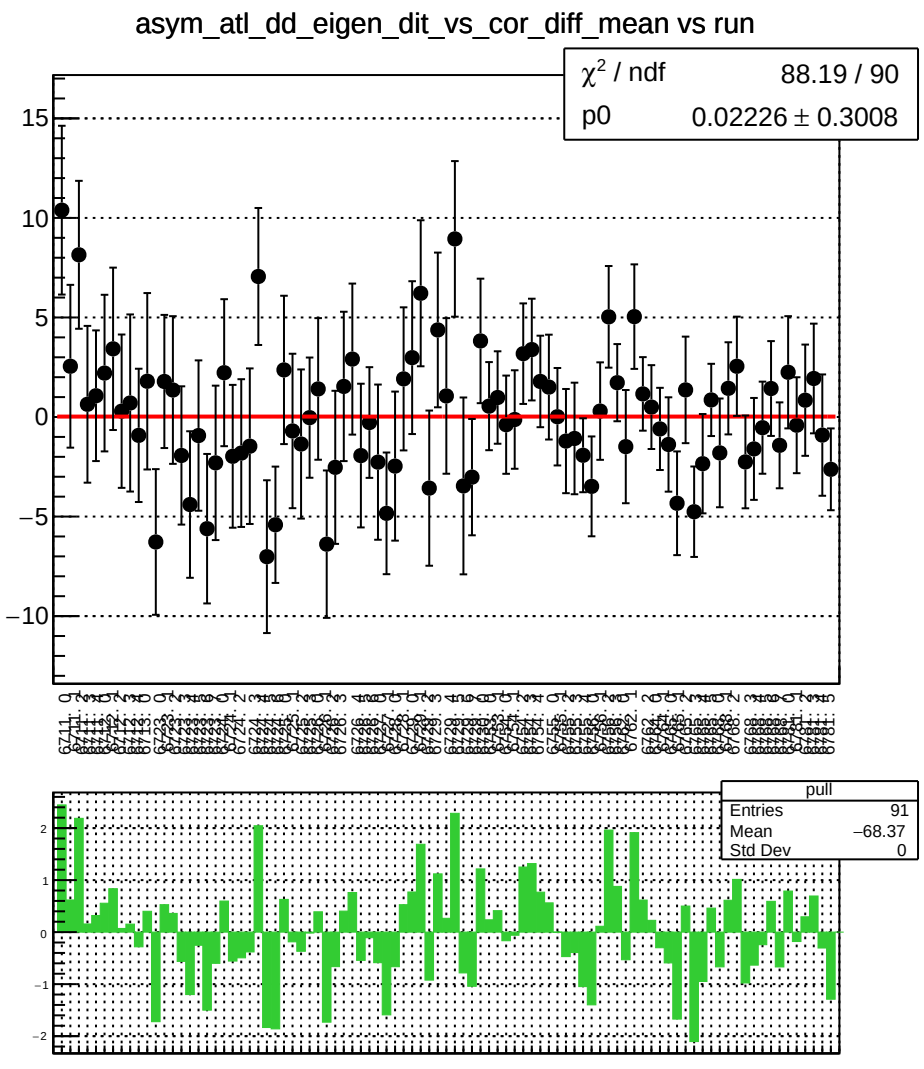

pull1D
Entries 91
Mean 0.01581
Std Dev 0.9843

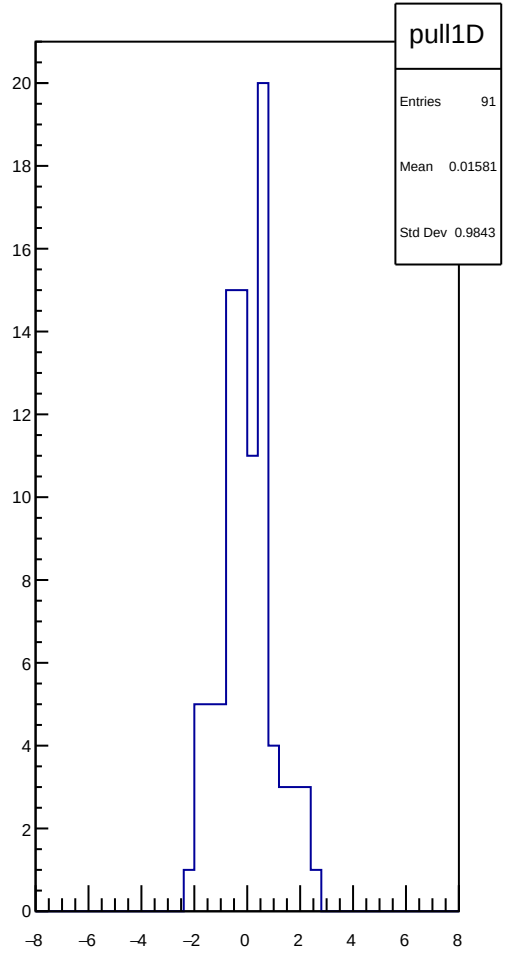

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.985e+04 / 90
p0 278.5 ± 0.2127
400
350
300
250
200

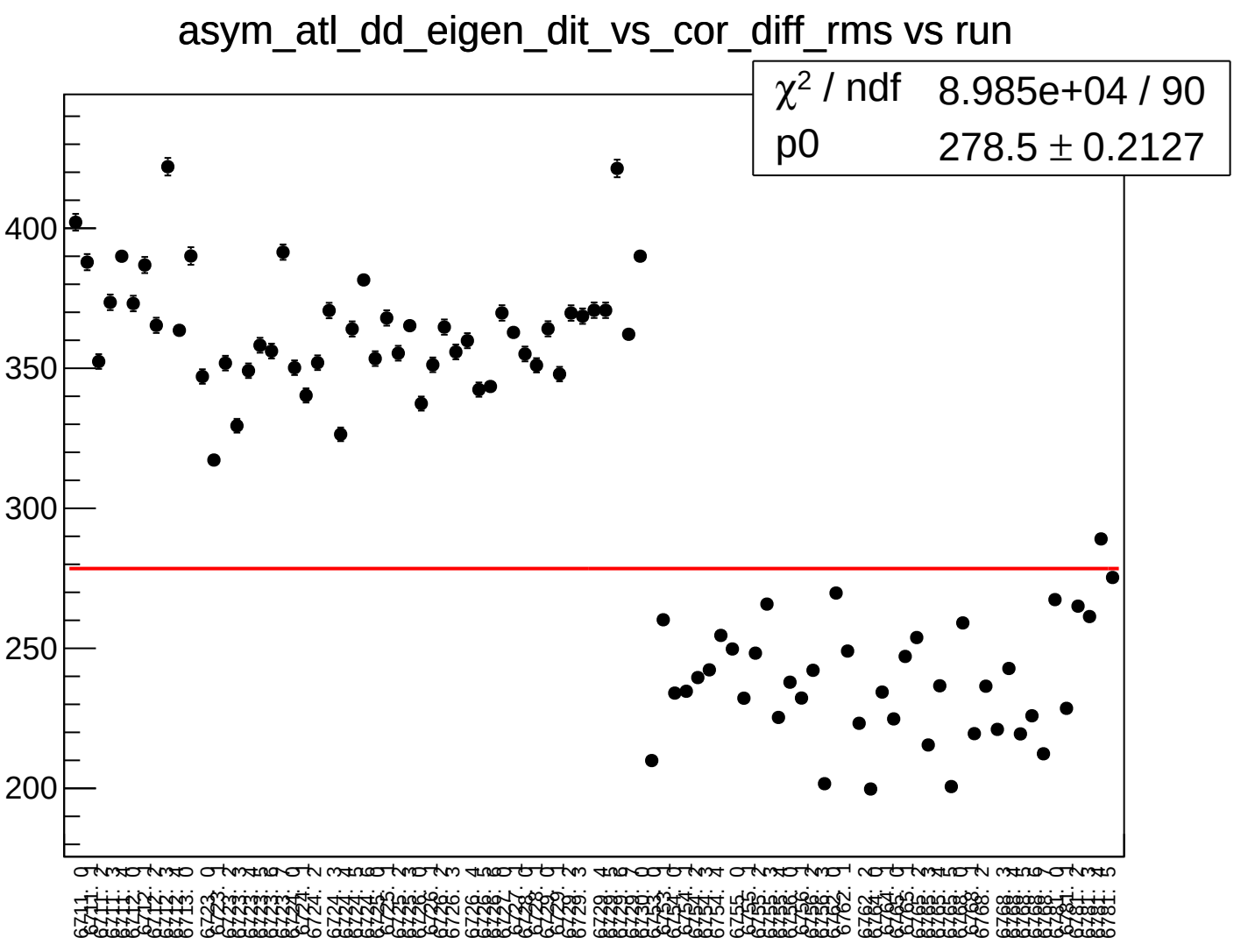

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.91 / 90
p0 −3.918e−06 ± 4.615e−06
pull
Entries 91
Mean −18.41
Std Dev 0

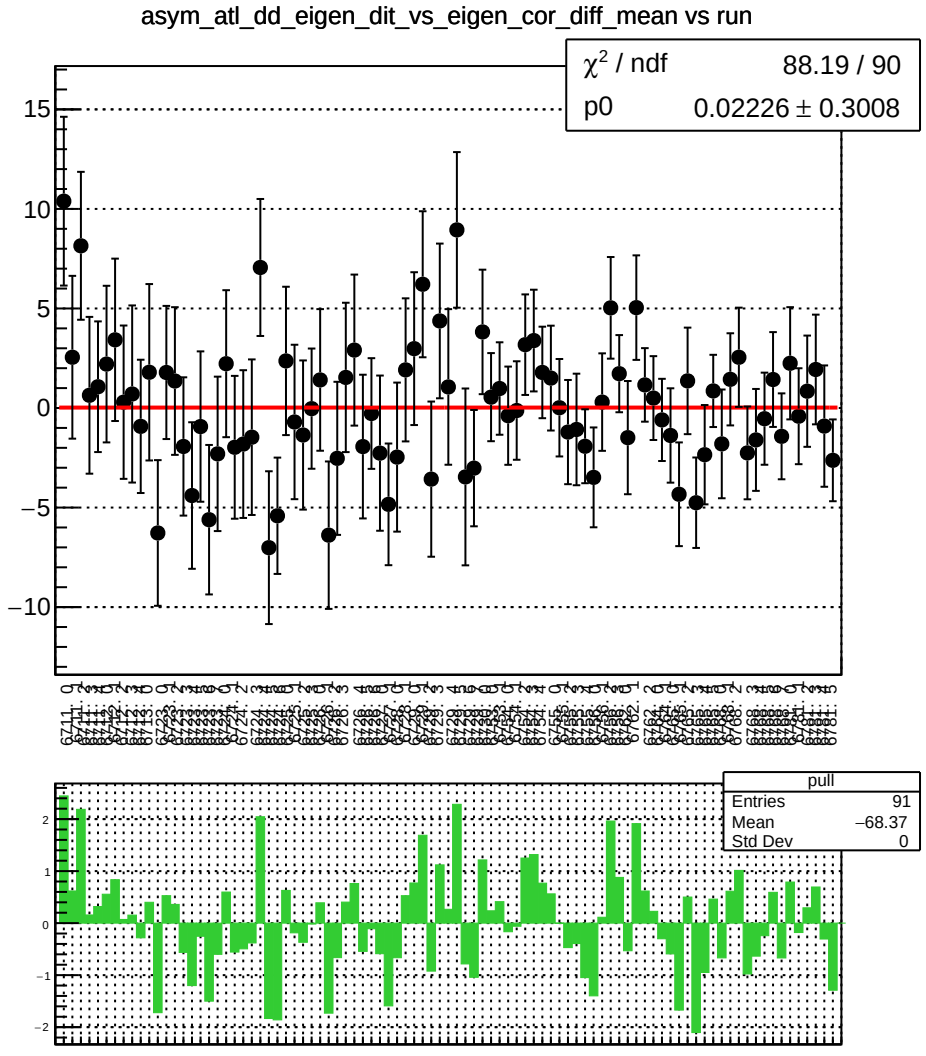

pull1D
Entries 91
Mean 0.07278
Std Dev 1.035

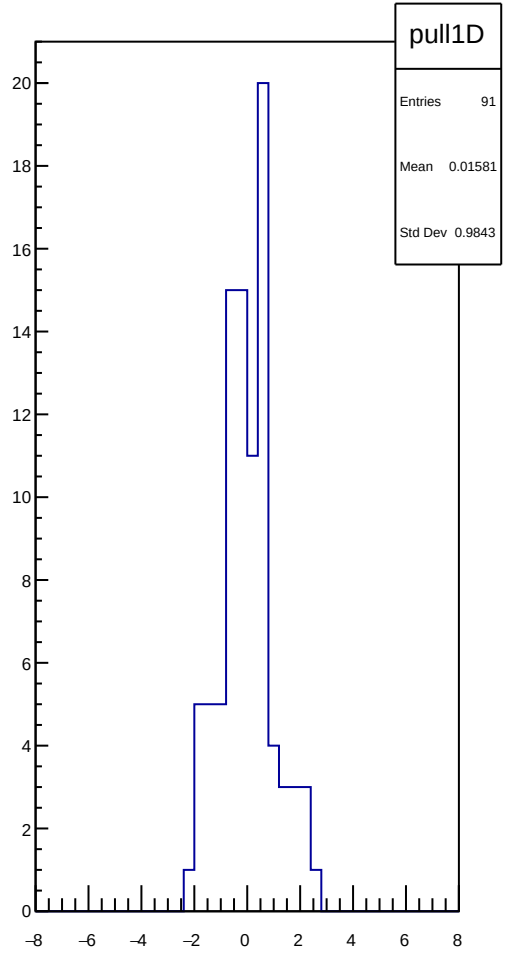

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.45e+05 / 90
p0 0.003514 ± 3.263e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

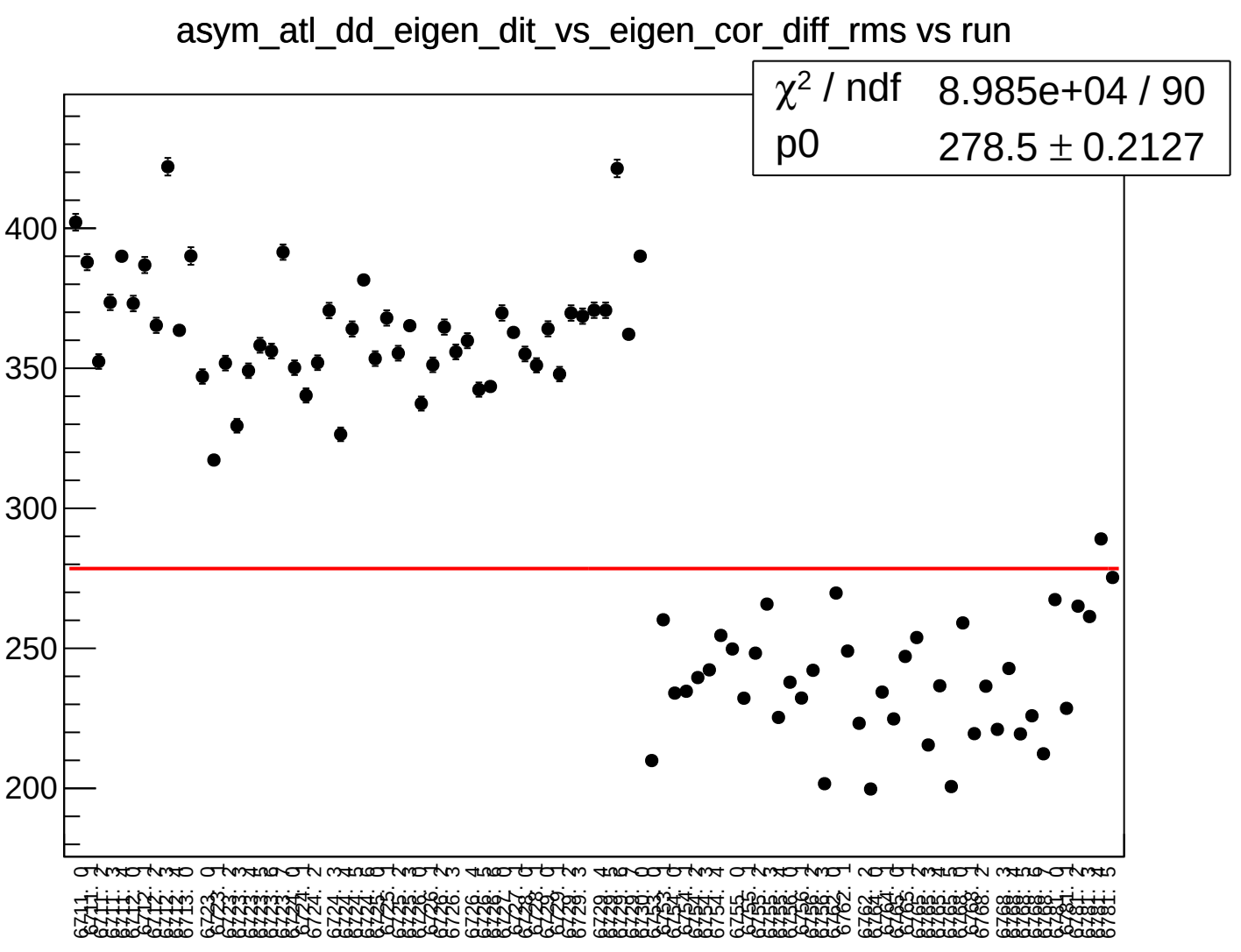

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.19 / 90
p0 0.02226 ± 0.3008
15
10
5
0
−5
−10
pull
Entries 91
Mean −68.37
Std Dev 0
2
1
0
−1
−2

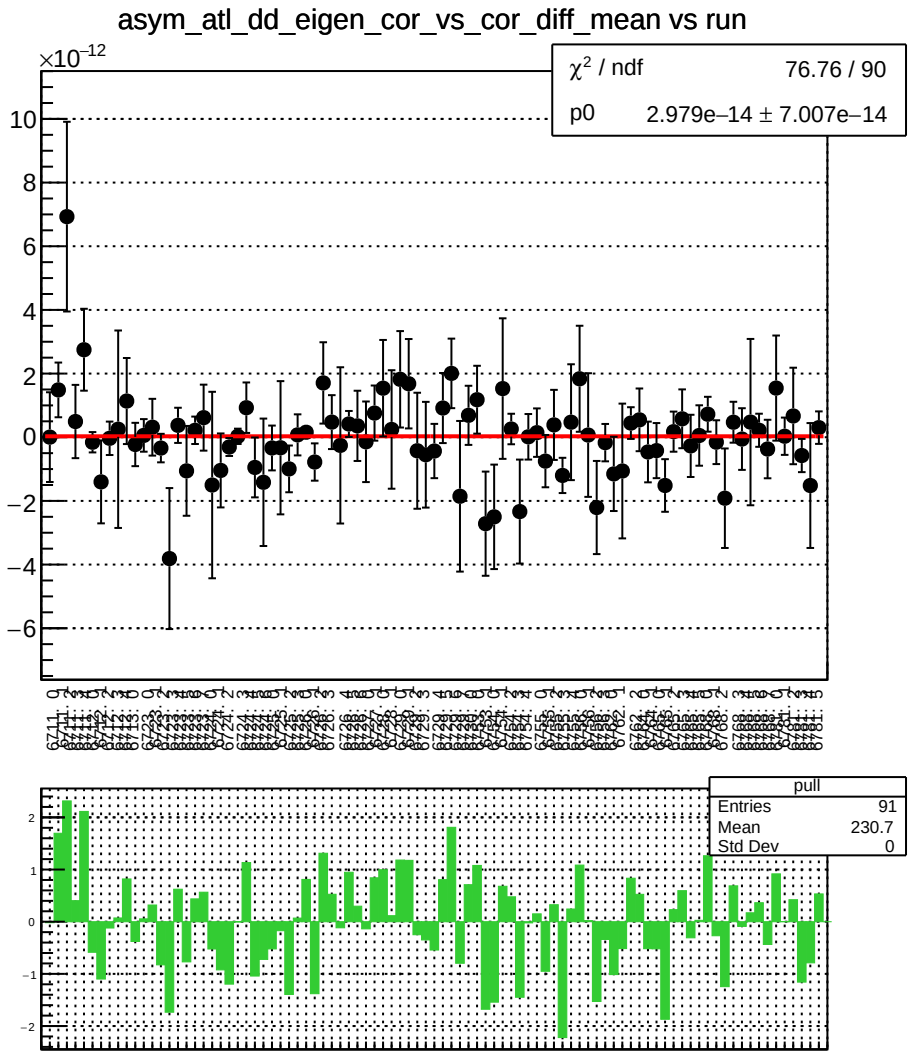

pull1D
Entries 91
Mean 0.01581
Std Dev 0.9843
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

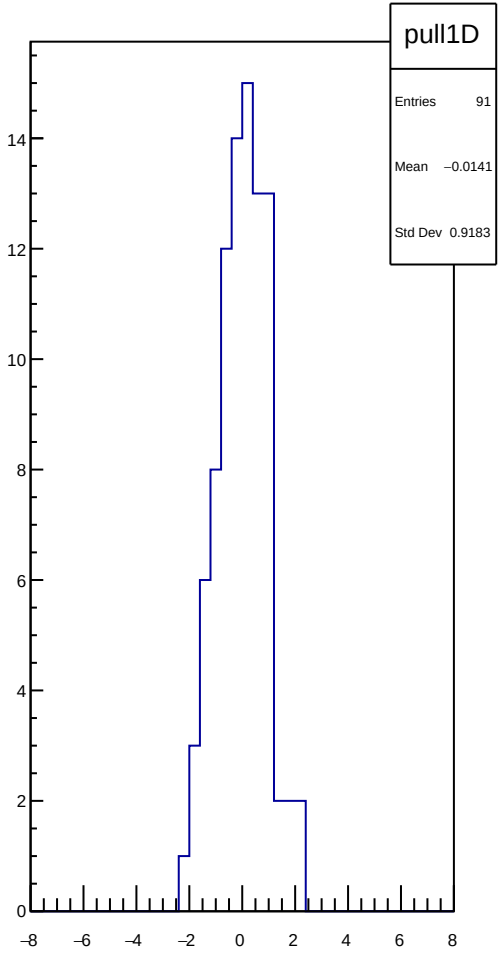

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.985e+04 / 90
p0 278.5 ± 0.2127
400
350
300
250
200

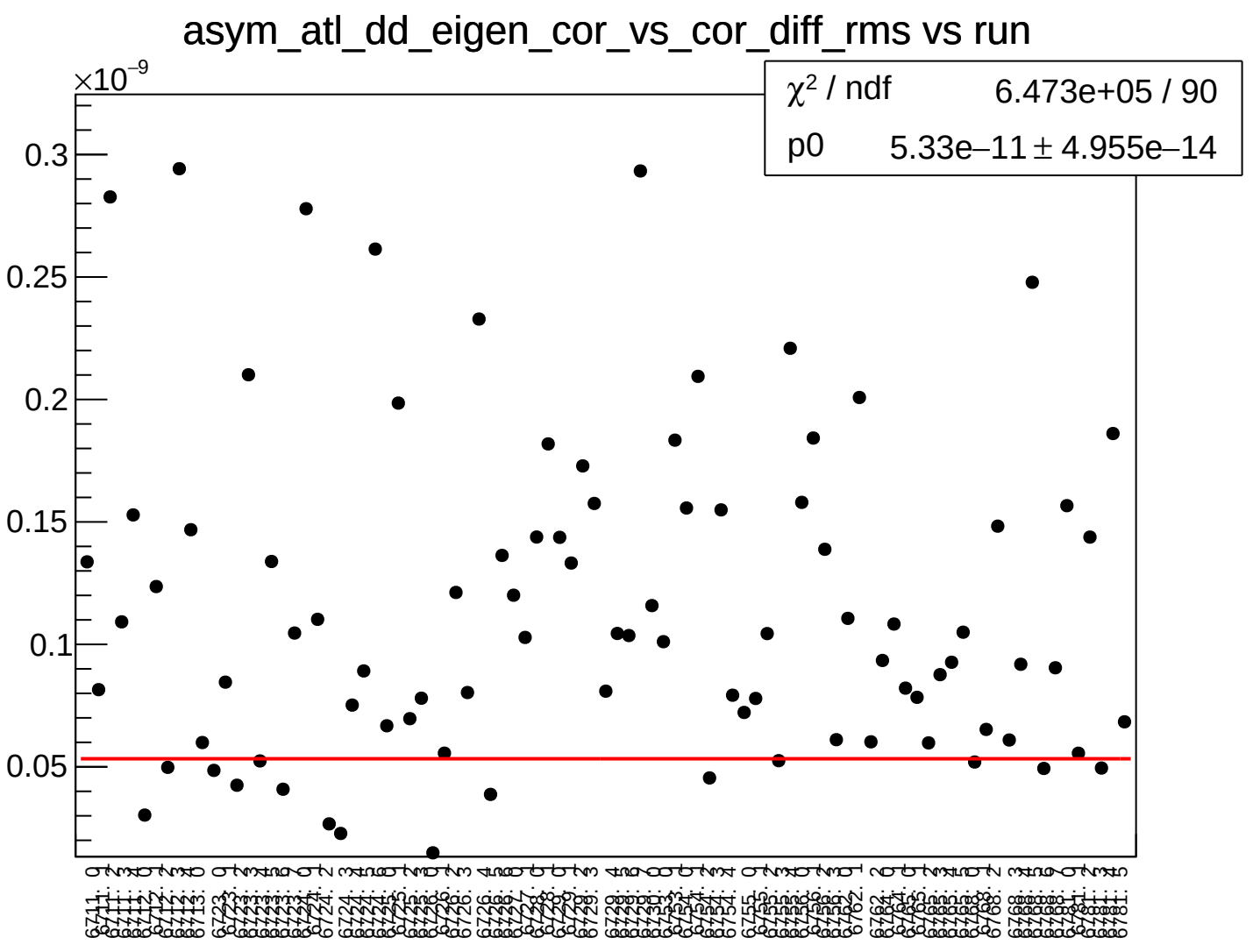

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.19 / 90
p0 0.02226 ± 0.3008
15
10
5
0
−5
−10
pull
Entries 91
Mean −68.37
Std Dev 0
2
1
0
−1
−2

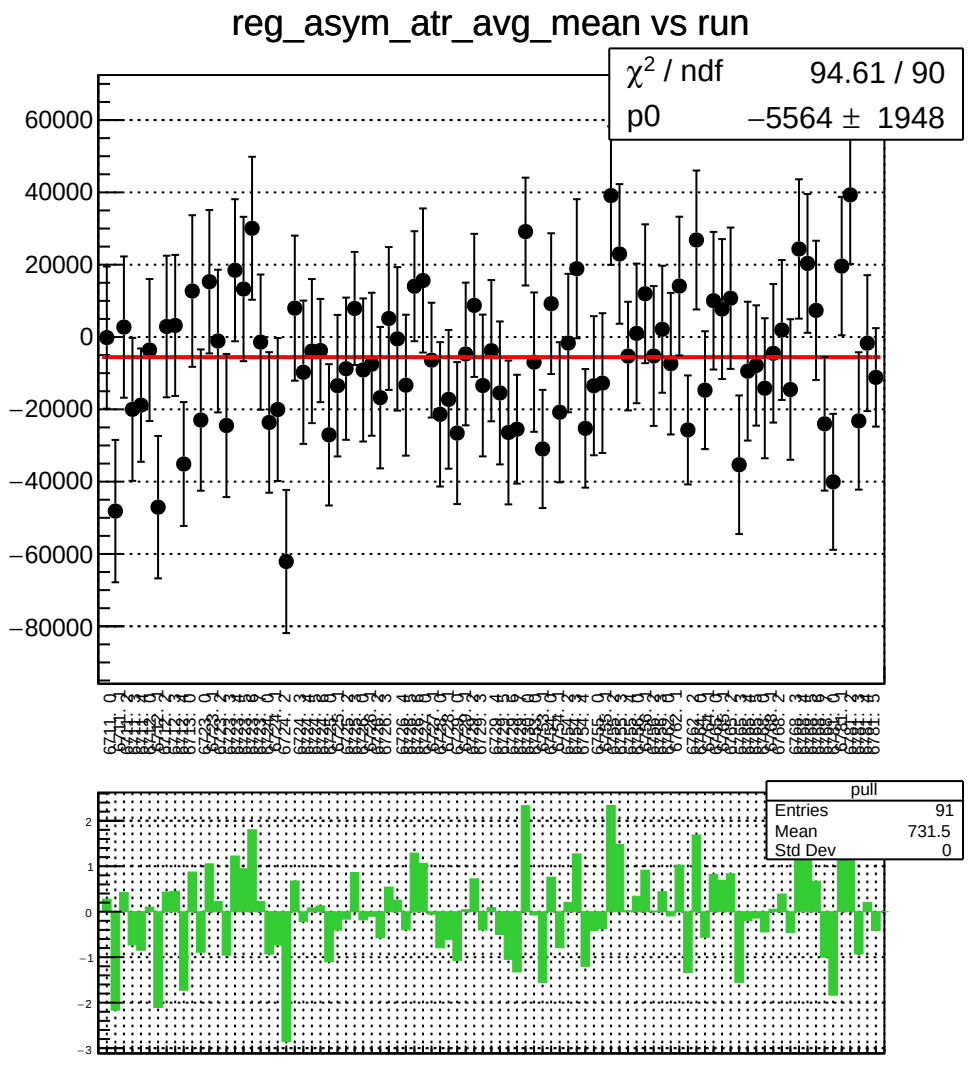

pull1D
Entries 91
Mean 0.01581
Std Dev 0.9843
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

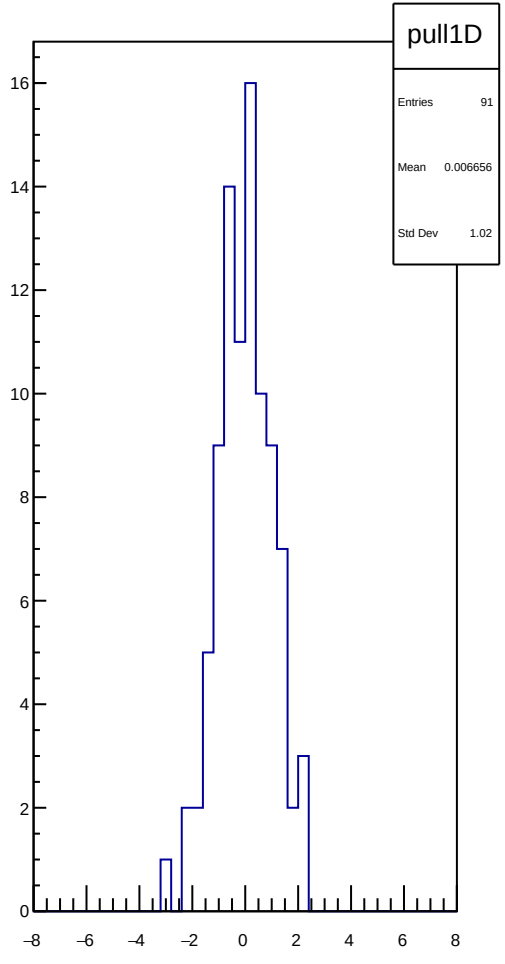

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.985e+04 / 90
p0 278.5 ± 0.2127
400
350
300
250
200

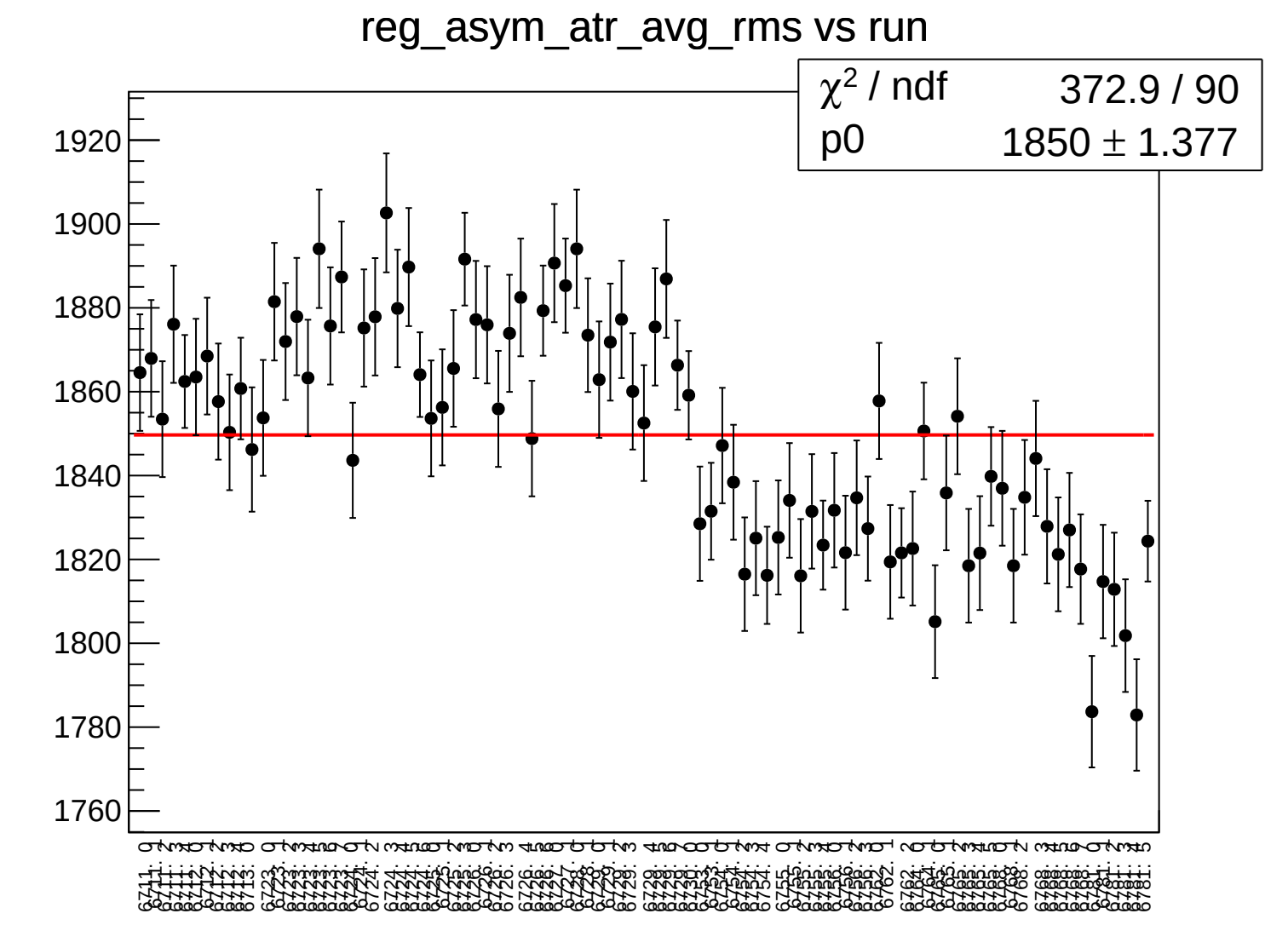

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.76 / 90
p0 2.979e−14 ± 7.007e−14
pull
Entries 91
Mean 230.7
Std Dev 0

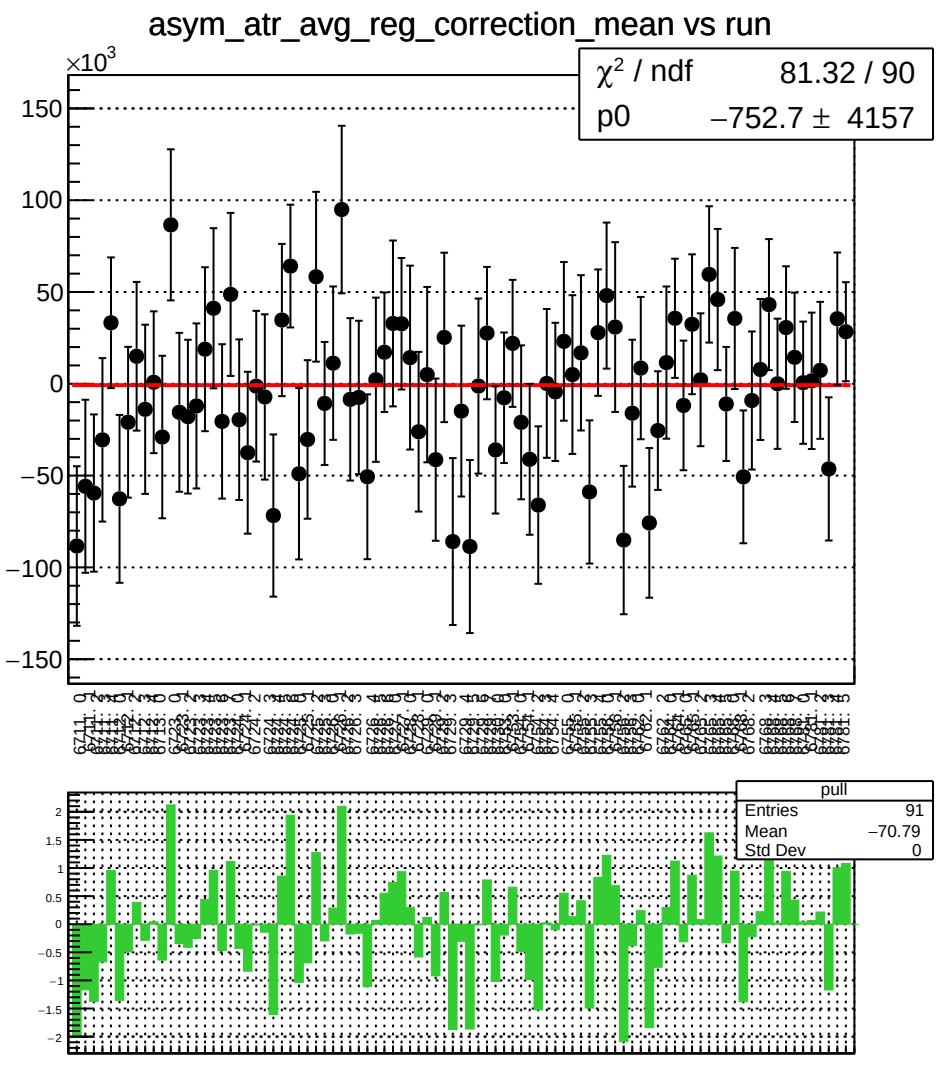

pull1D
Entries 91
Mean −0.0141
Std Dev 0.9183

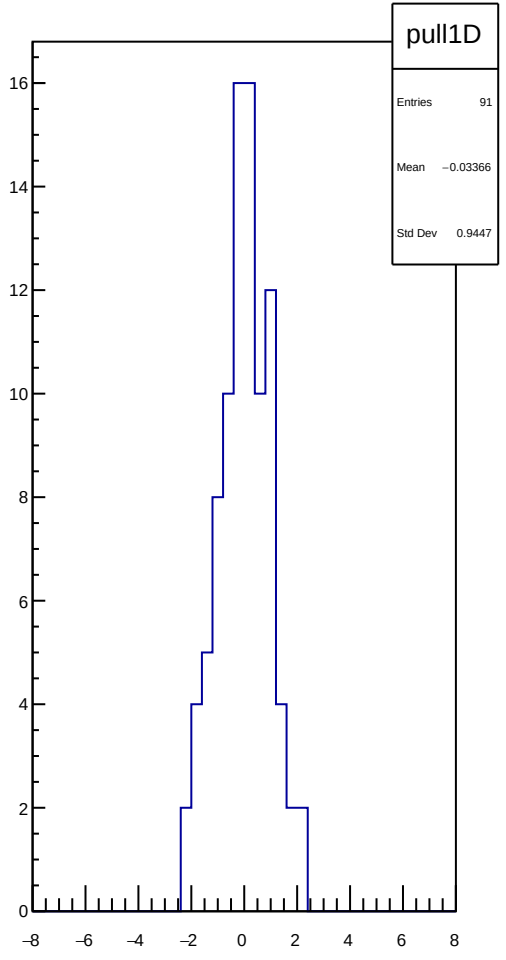

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.473e+05 / 90
p0 5.33e−11 ± 4.955e−14
0.3
0.25
0.2
0.15
0.1
0.05

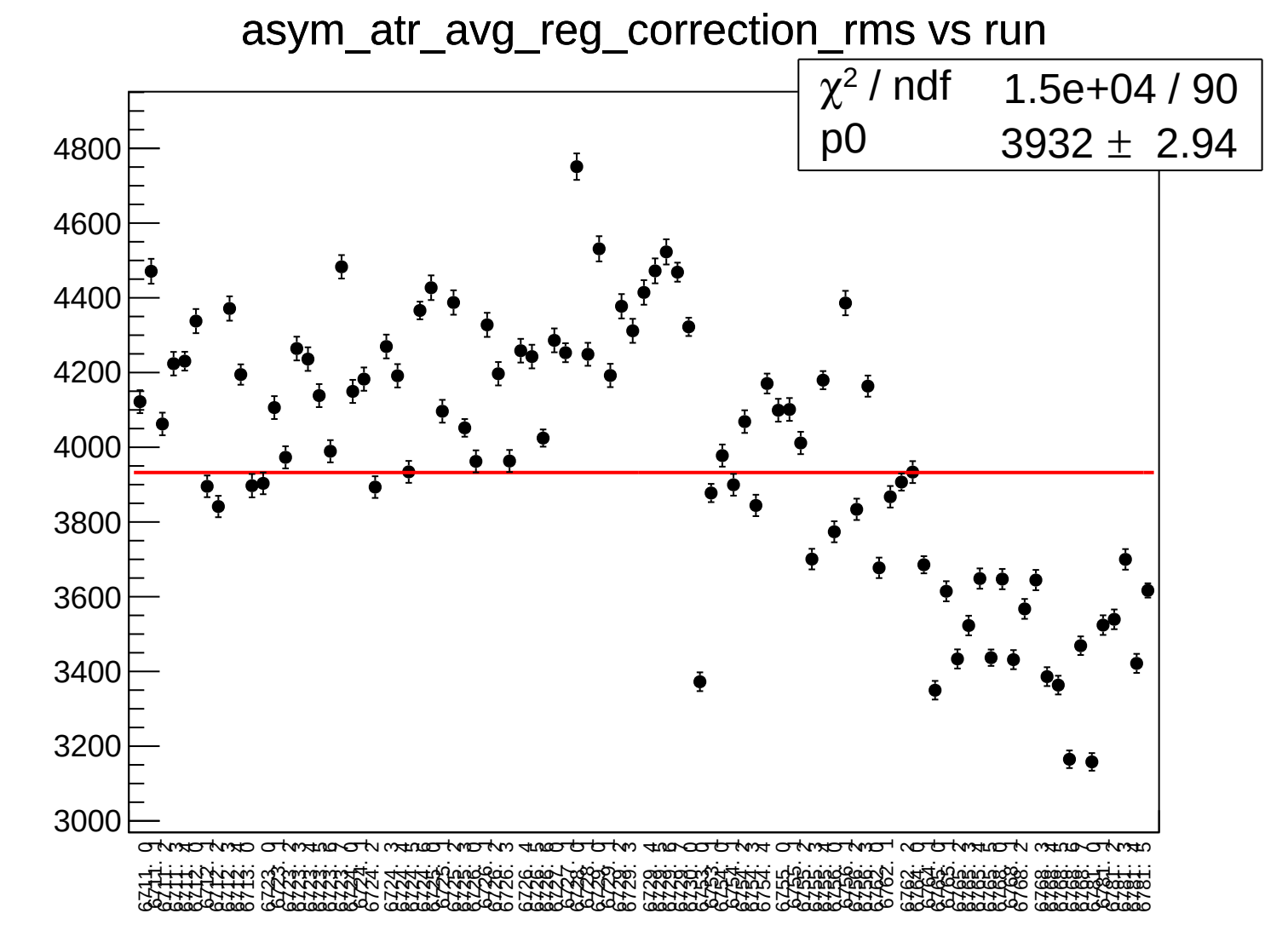

reg_asym_atr_avg_mean vs run
χ² / ndf 94.61 / 90
p0 −5564 ± 1948
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 731.5
Std Dev 0
2
1
0
−1
−2
−3

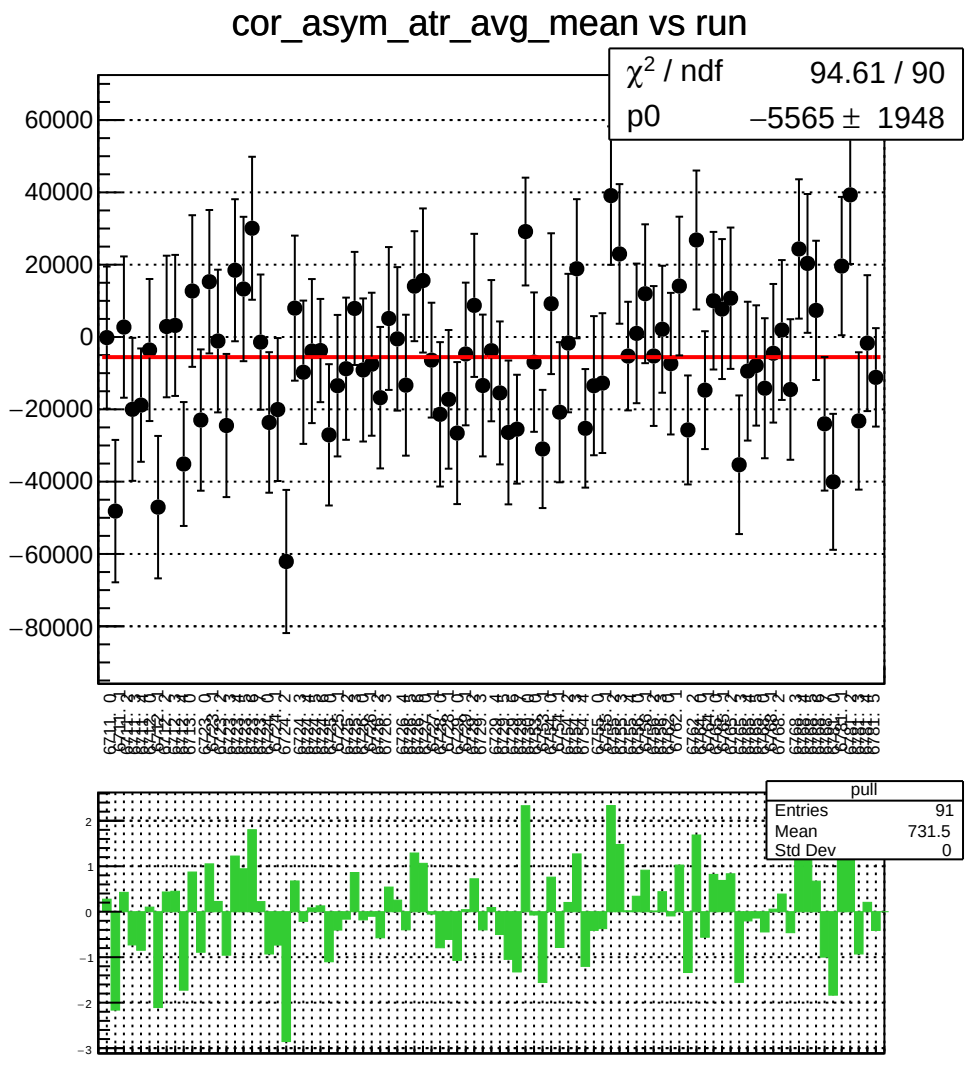

pull1D
Entries 91
Mean 0.006656
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

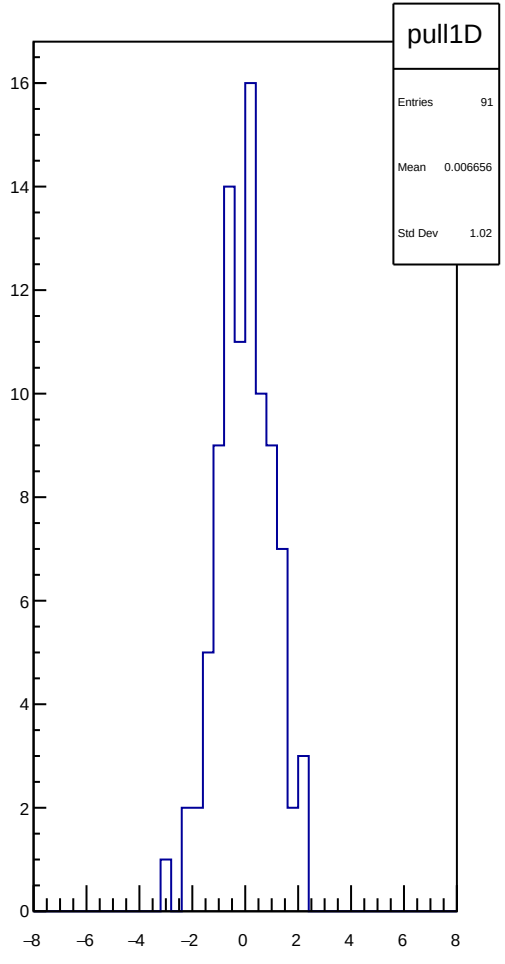

reg_asym_atr_avg_rms vs run
χ^2 / ndf 372.9 / 90
p0 1850 ± 1.377
1920
1900
1880
1860
1840
1820
1800
1780
1760

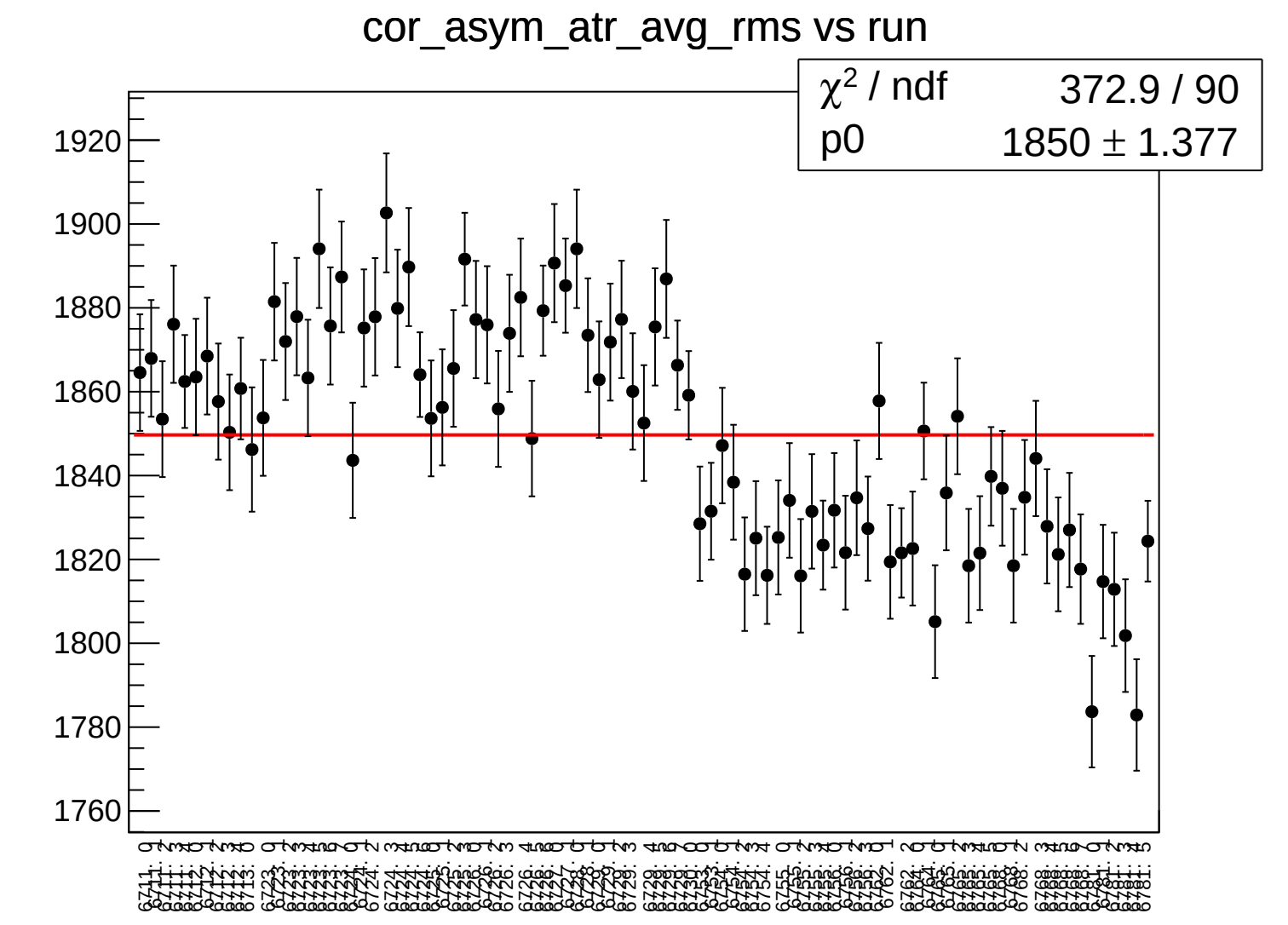

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 81.32 / 90
p0 −752.7 ± 4157
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −70.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

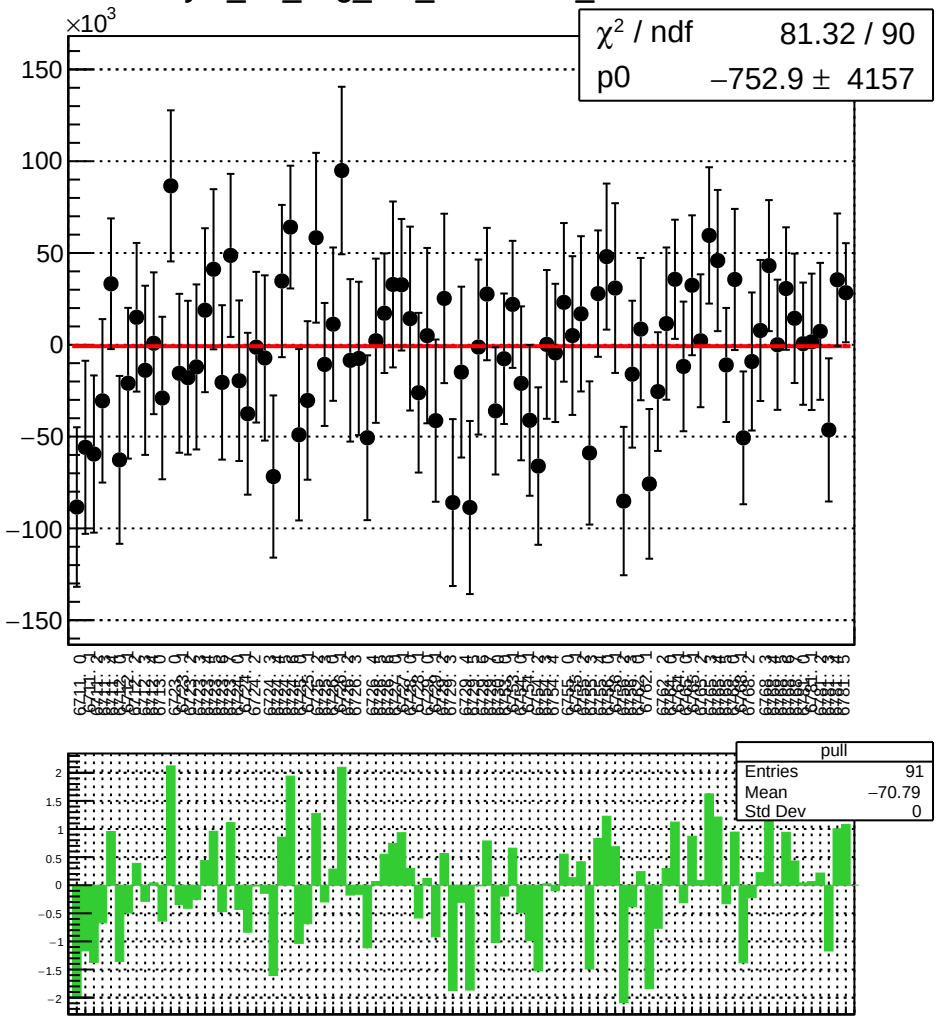

pull1D
Entries 91
Mean −0.03366
Std Dev 0.9447
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

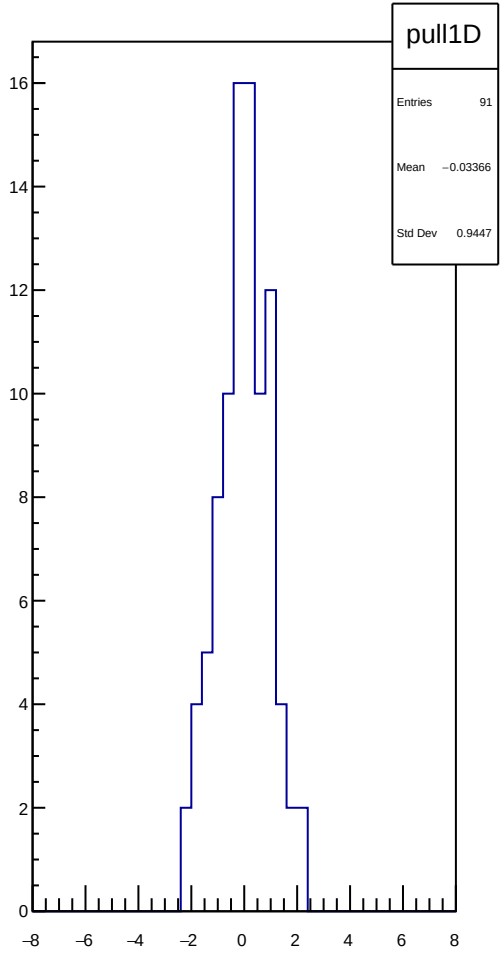

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 1.5e+04 / 90
p0 3932 ± 2.94
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000


cor_asym_atr_avg_mean vs run
χ² / ndf 94.61 / 90
p0 −5565 ± 1948
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 731.5
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean 0.006656
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr_avg_rms vs run
χ^2 / ndf 372.9 / 90
p0 1850 ± 1.377
1920
1900
1880
1860
1840
1820
1800
1780
1760


asym_atr_avg_cor_correction_mean vs run
χ² / ndf 81.32 / 90
p0 −752.9 ± 4157
×10³
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −70.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 91
Mean −0.03366
Std Dev 0.9447
16
14
12
10
8
6
4
2
0
−8
−6
−4
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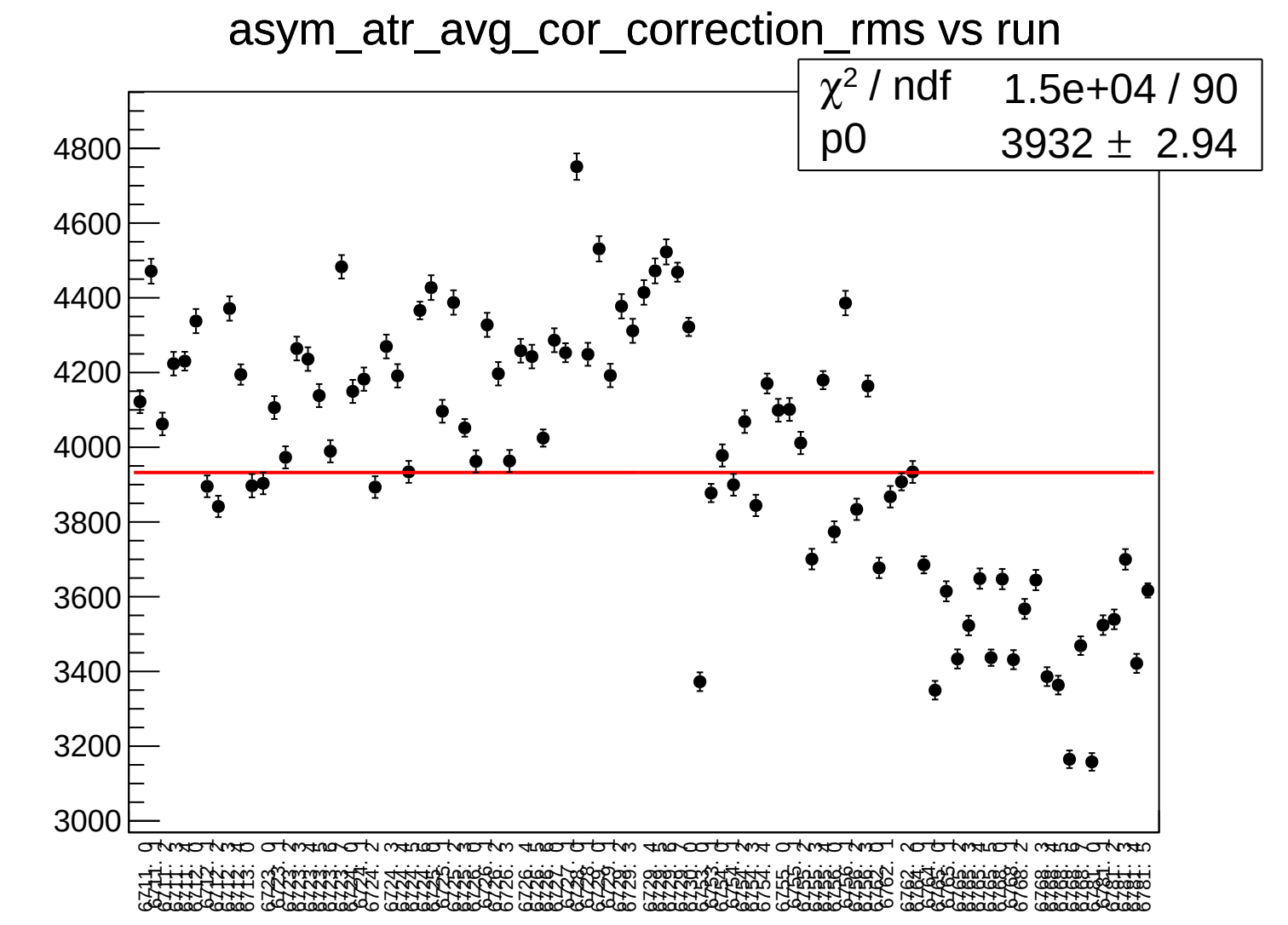
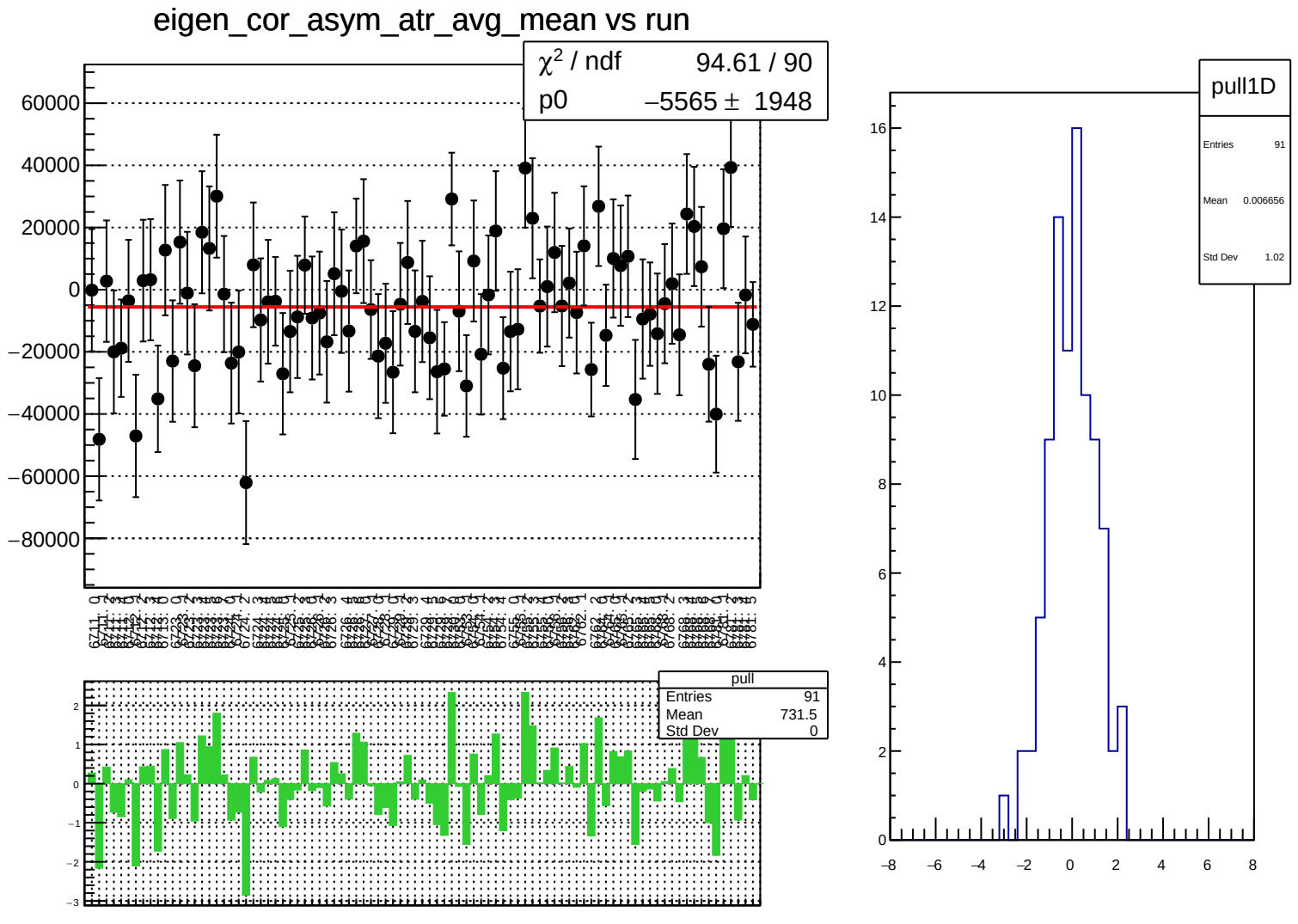
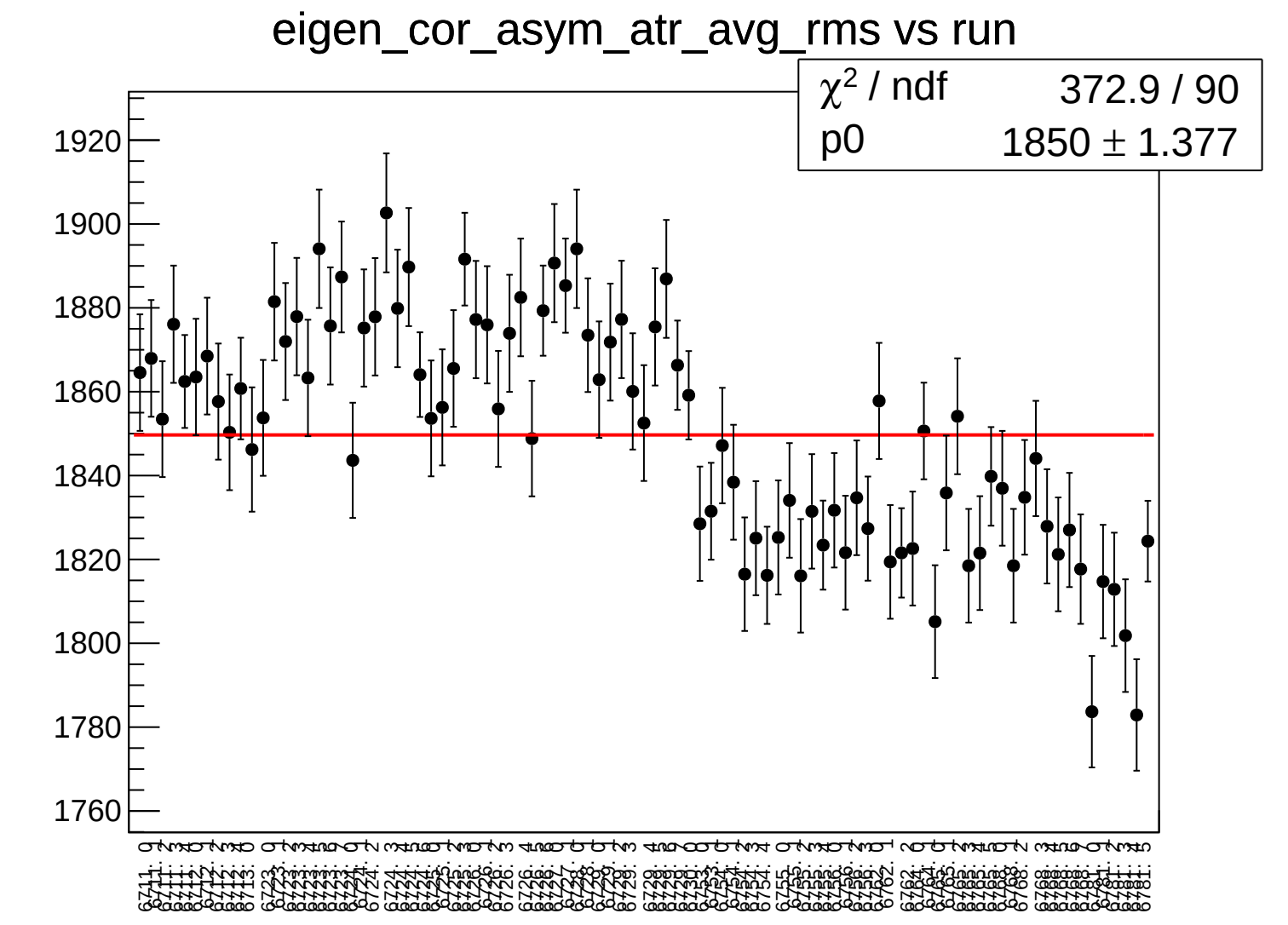
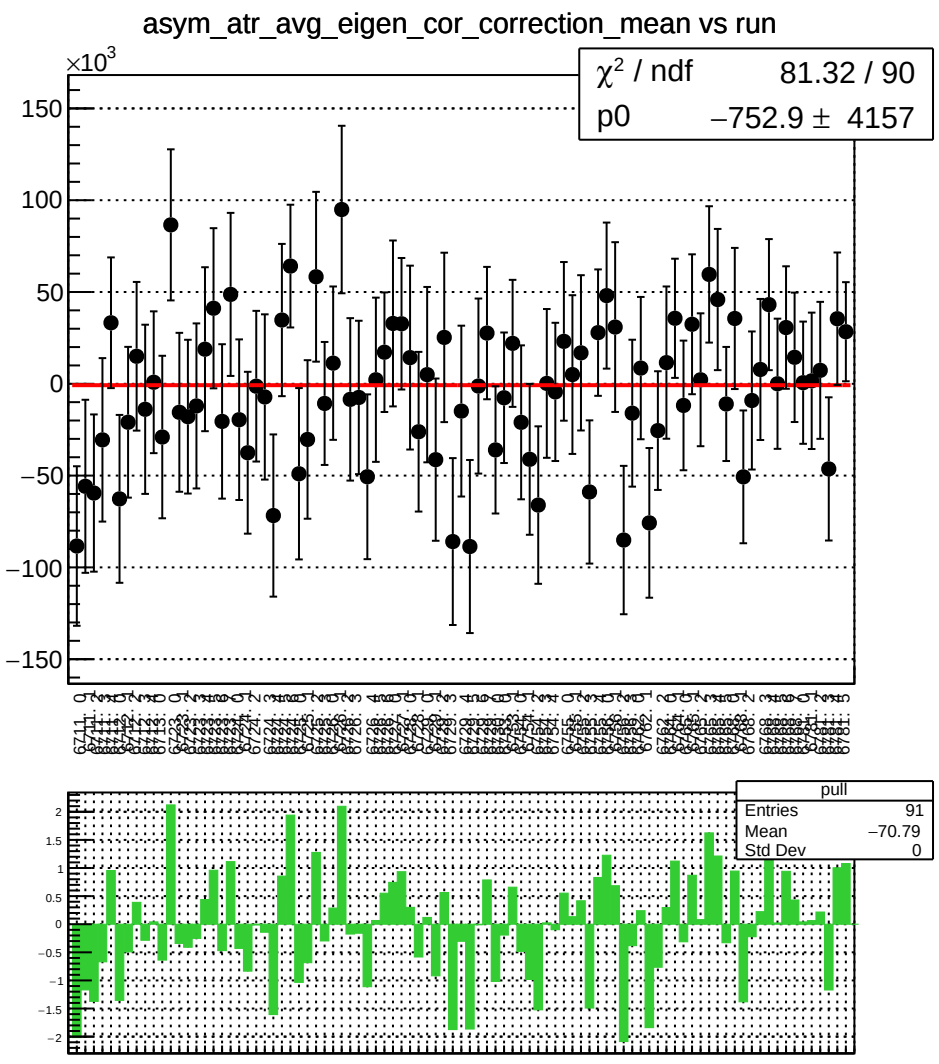
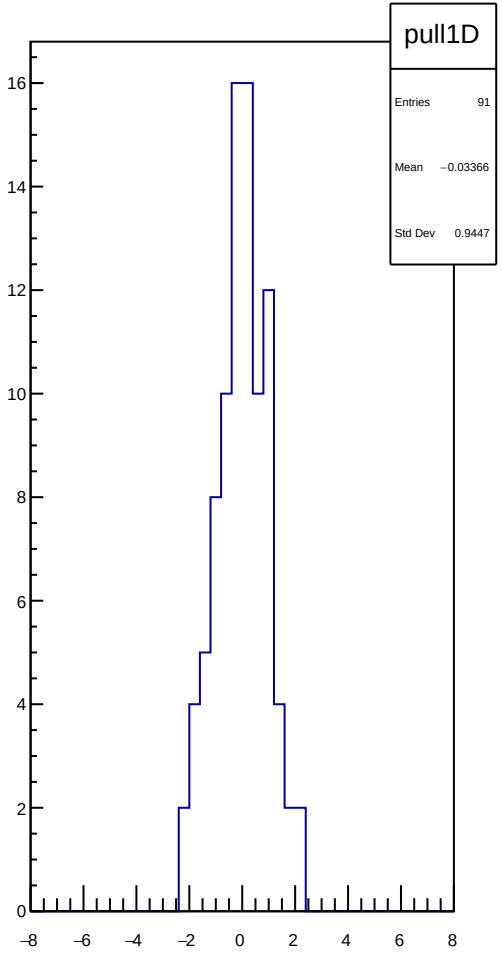
0
2
4
6
8


asym_atr_avg_cor_correction_rms vs run
χ² / ndf 1.5e+04 / 90
p0 3932 ± 2.94
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000


eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 94.61 / 90
p0 −5565 ± 1948
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 731.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.006656
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 372.9 / 90
p0 1850 ± 1.377
1920
1900
1880
1860
1840
1820
1800
1780
1760


asym_atr_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.32 / 90
p0 −752.9 ± 4157
×10³
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −70.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 91
Mean −0.03366
Std Dev 0.9447
16
14
12
10
8
6
4
2
0
−8
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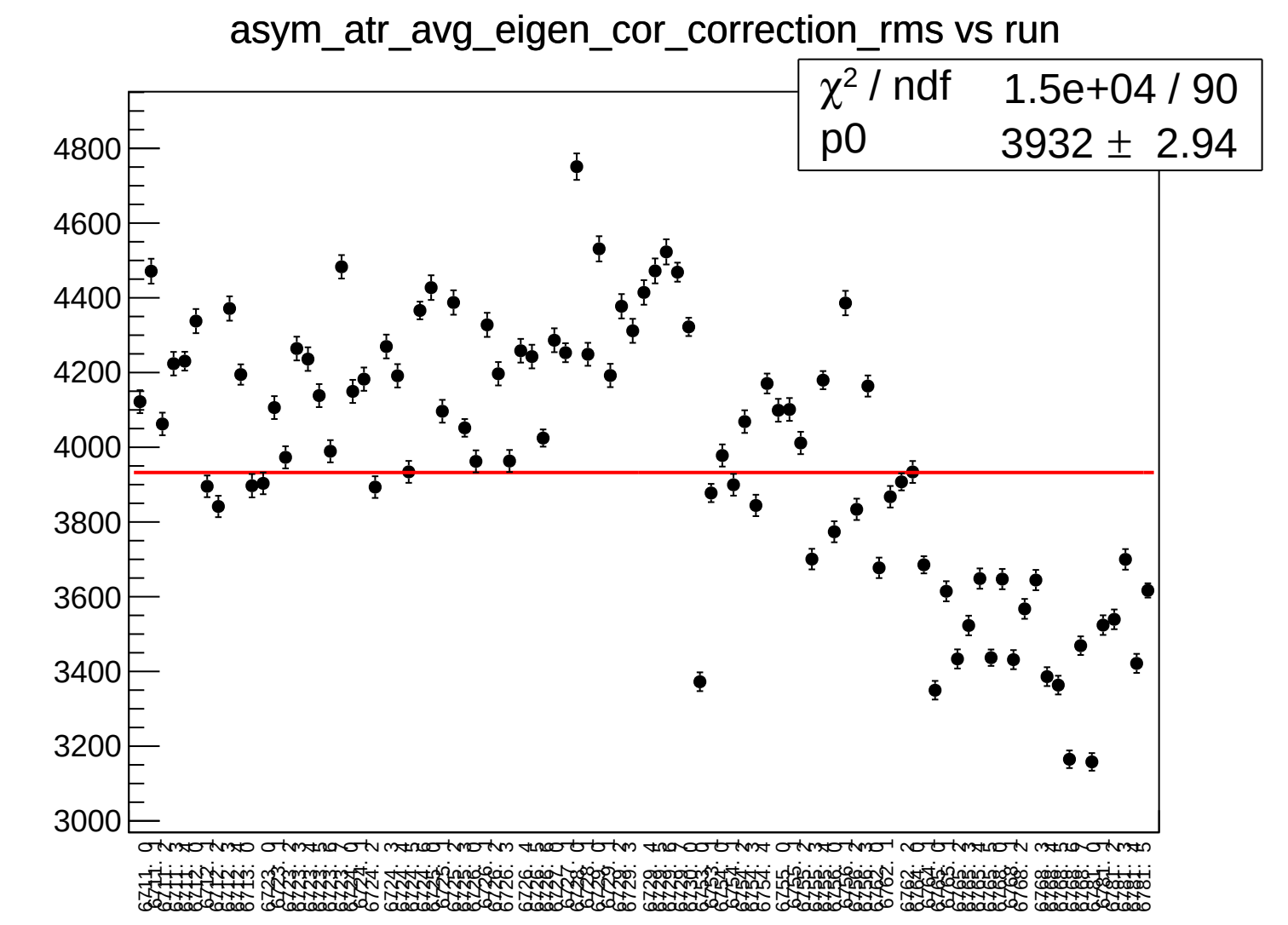
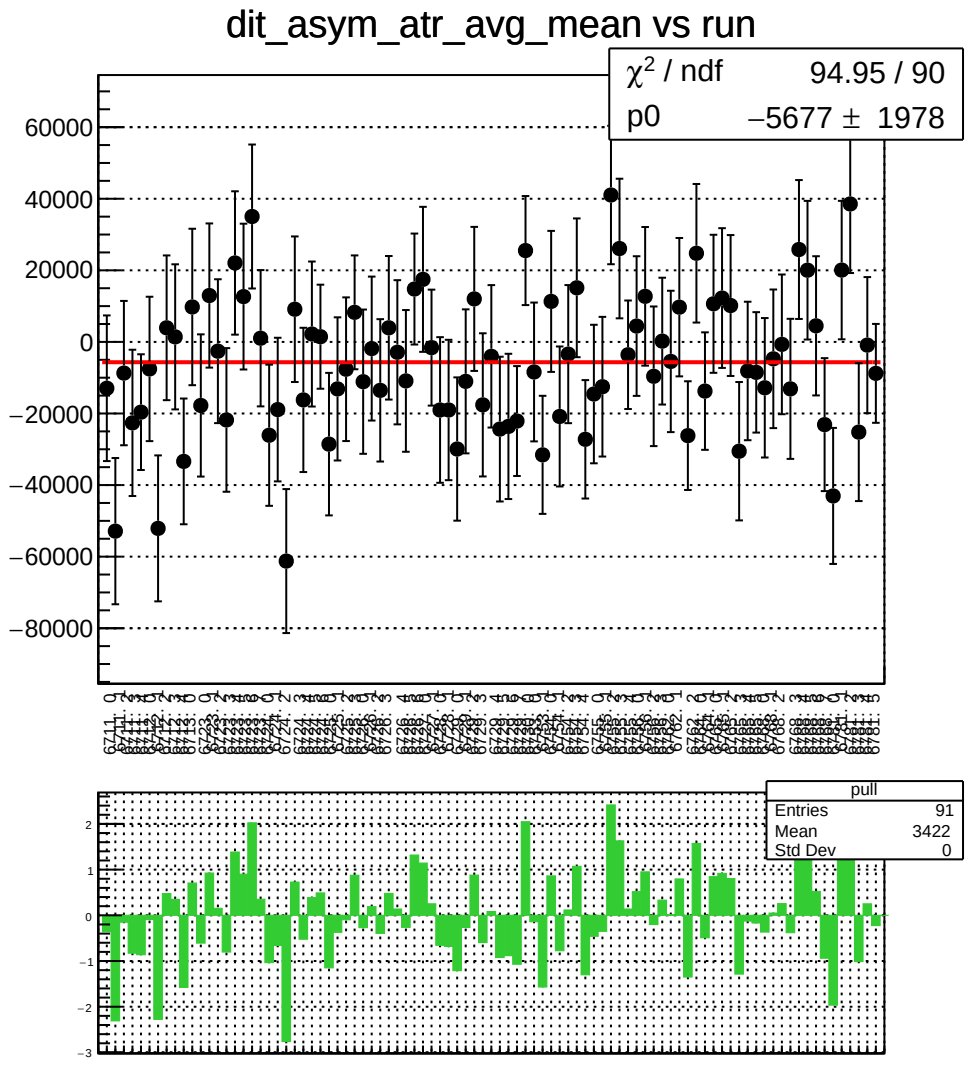
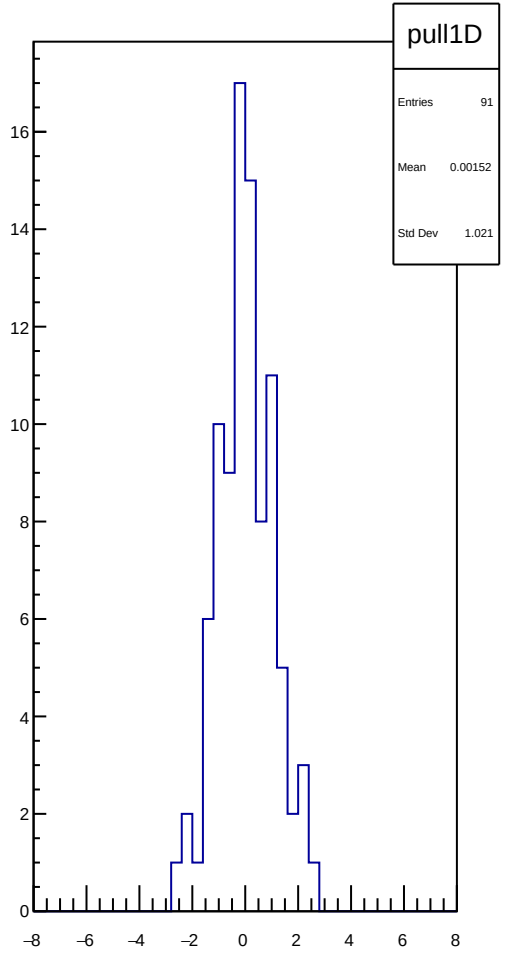
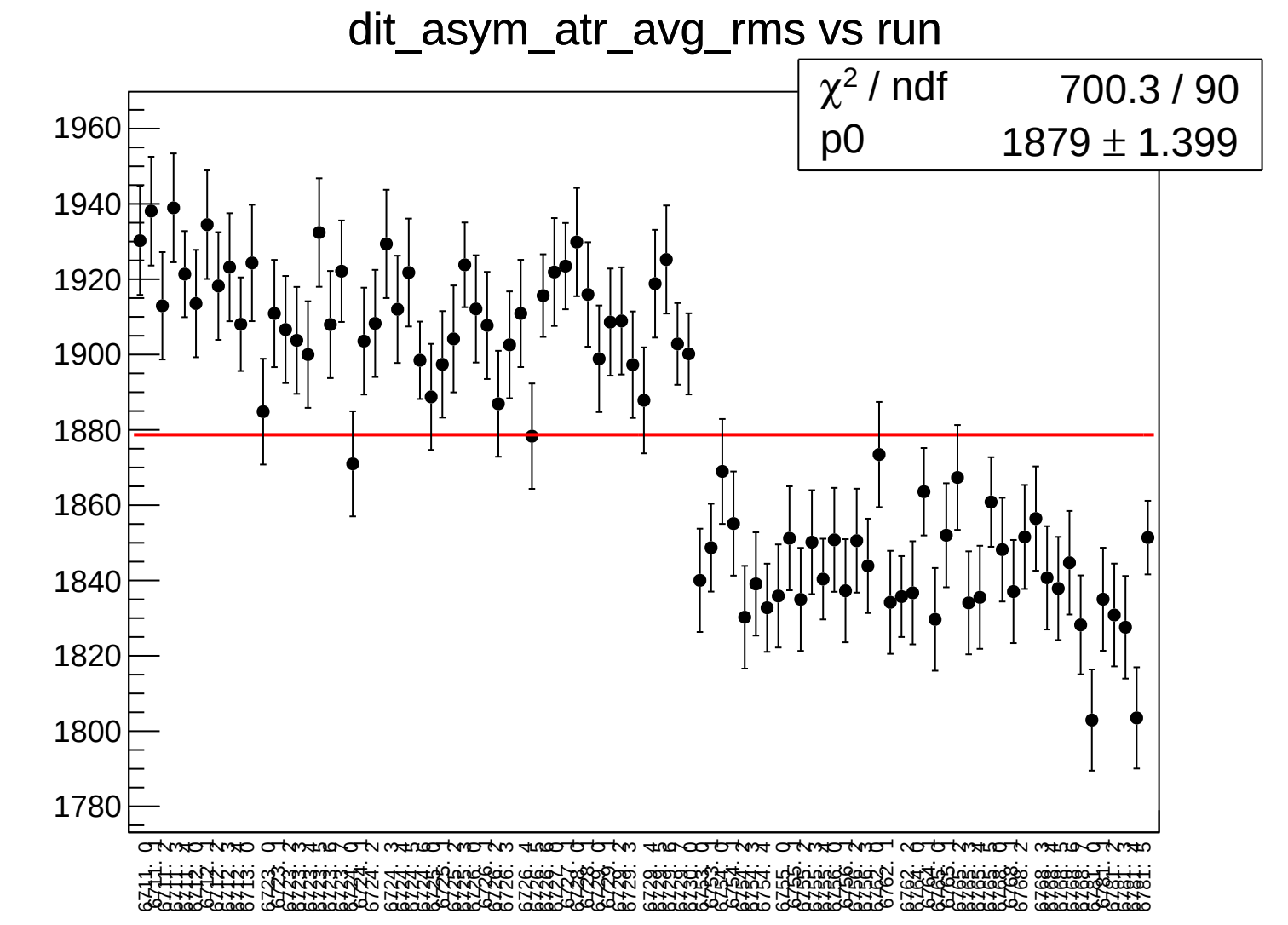
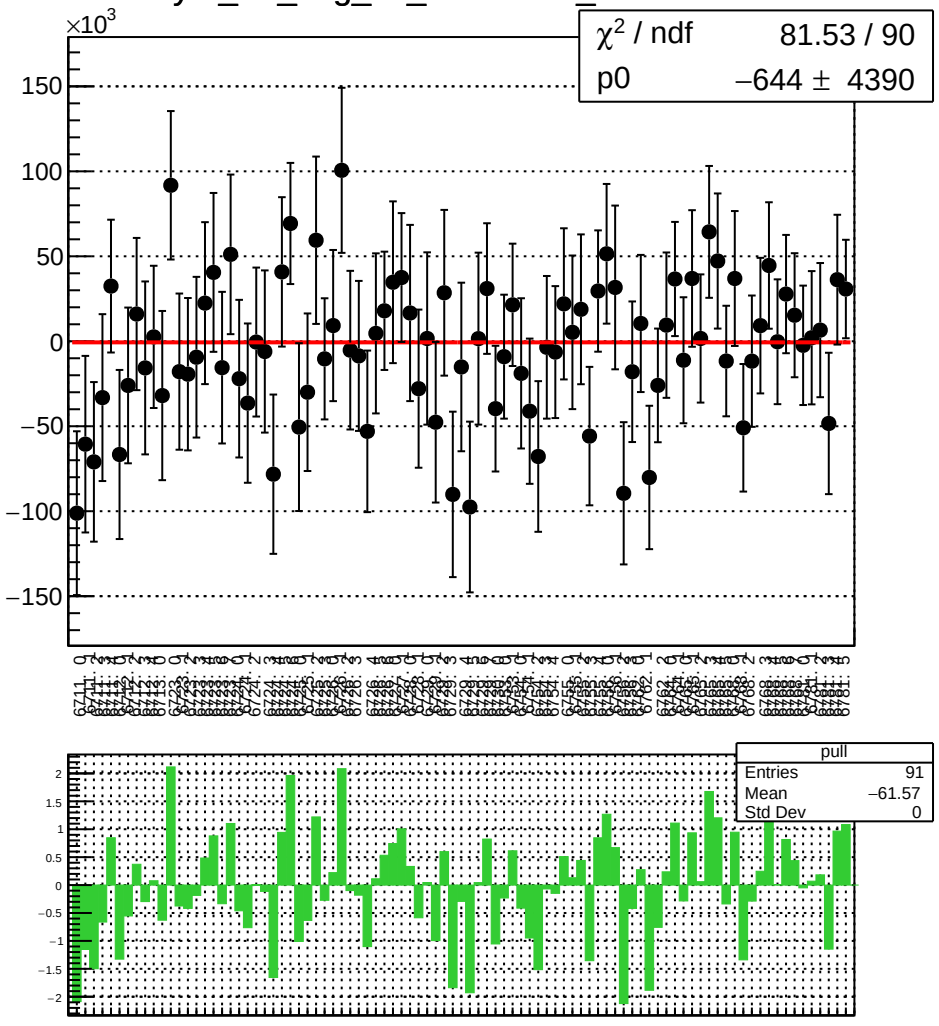
2
4
6
8

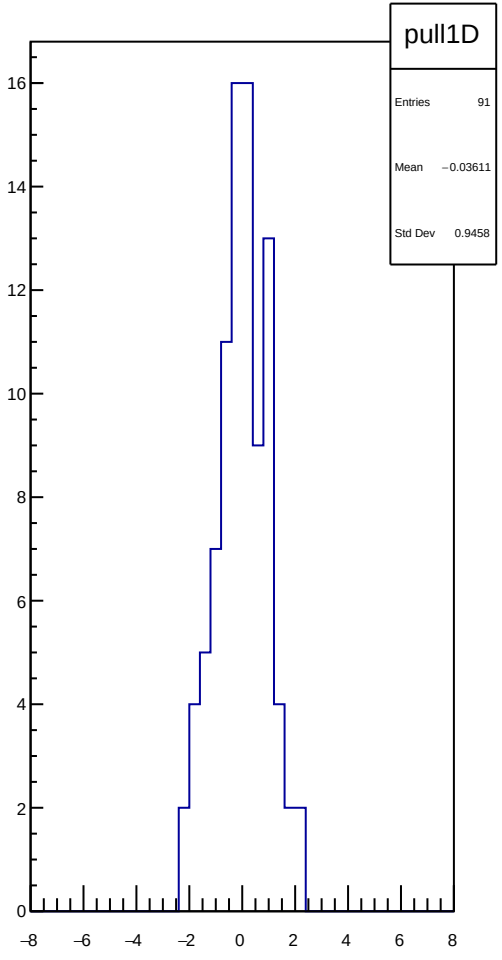

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.5e+04 / 90
p0 3932 ± 2.94
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

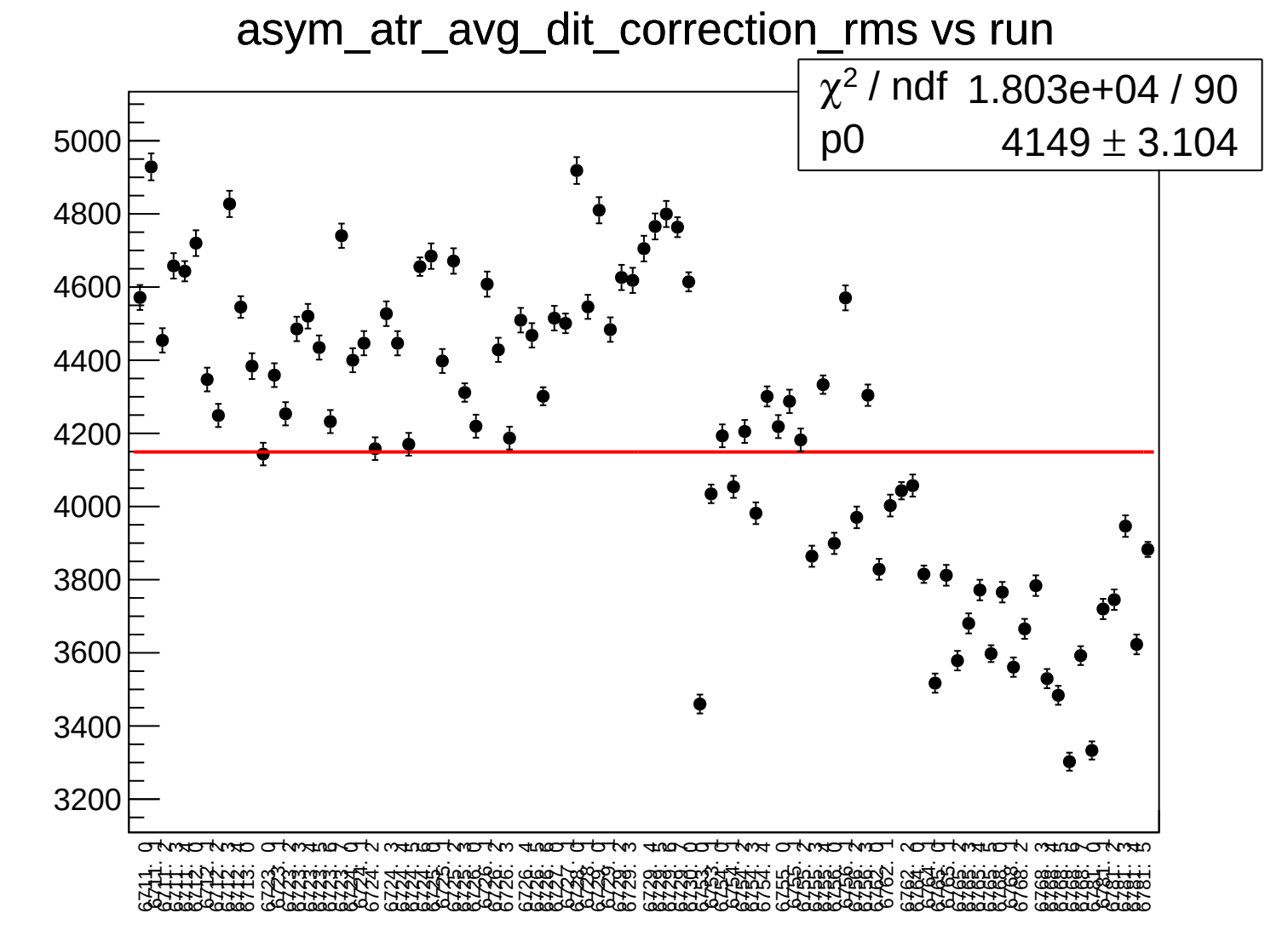

dit_asym_atr_avg_mean vs run
χ² / ndf 94.95 / 90
p0 −5677 ± 1978
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 3422
Std Dev 0
2
1
0
−1
−2
−3

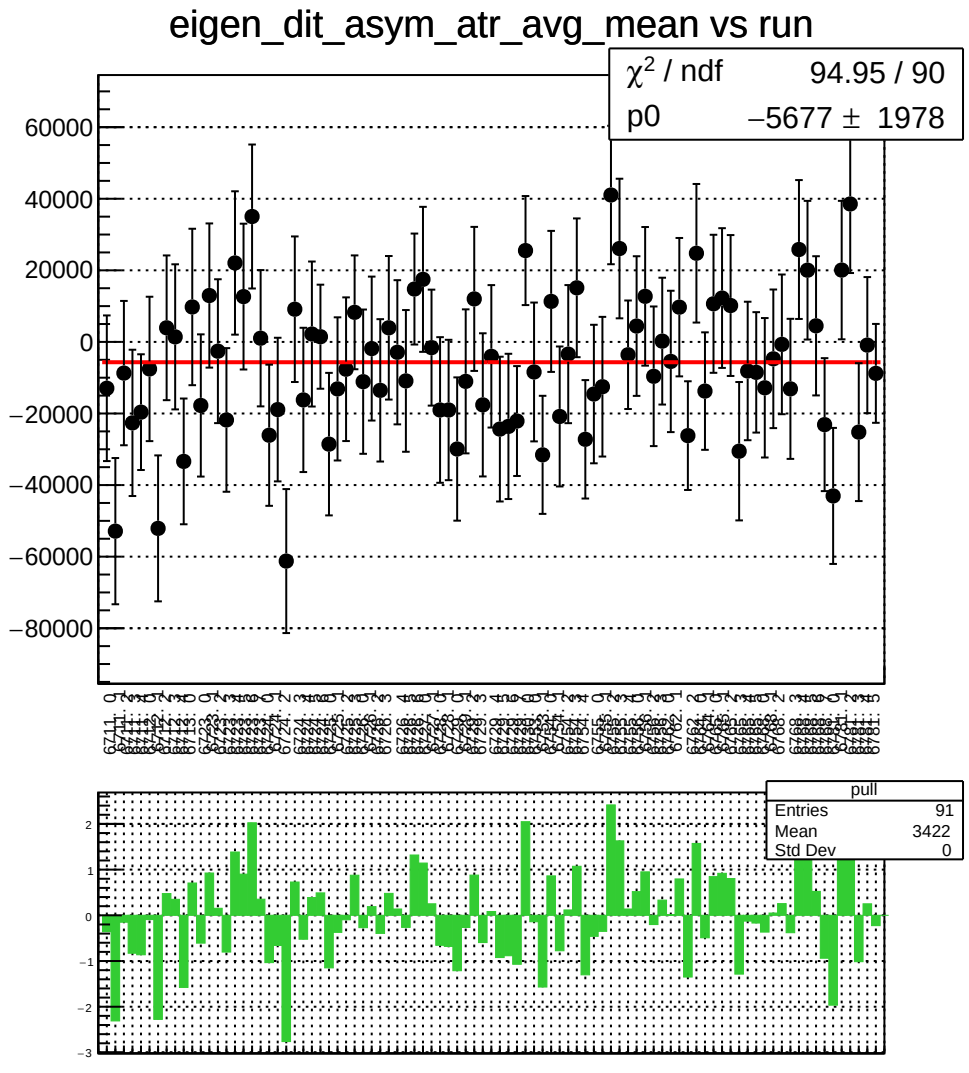

pull1D
Entries 91
Mean 0.00152
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

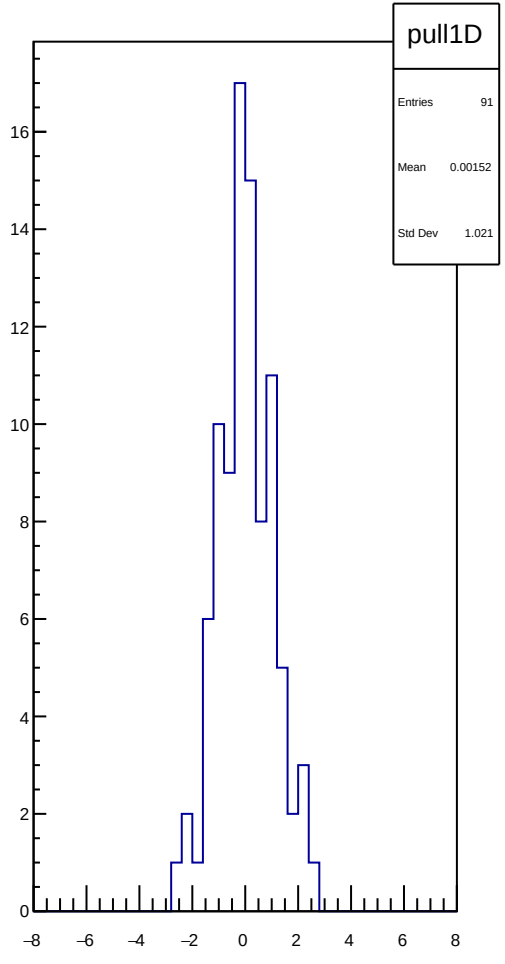

dit_asym_atr_avg_rms vs run
χ^2 / ndf 700.3 / 90
p0 1879 ± 1.399
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

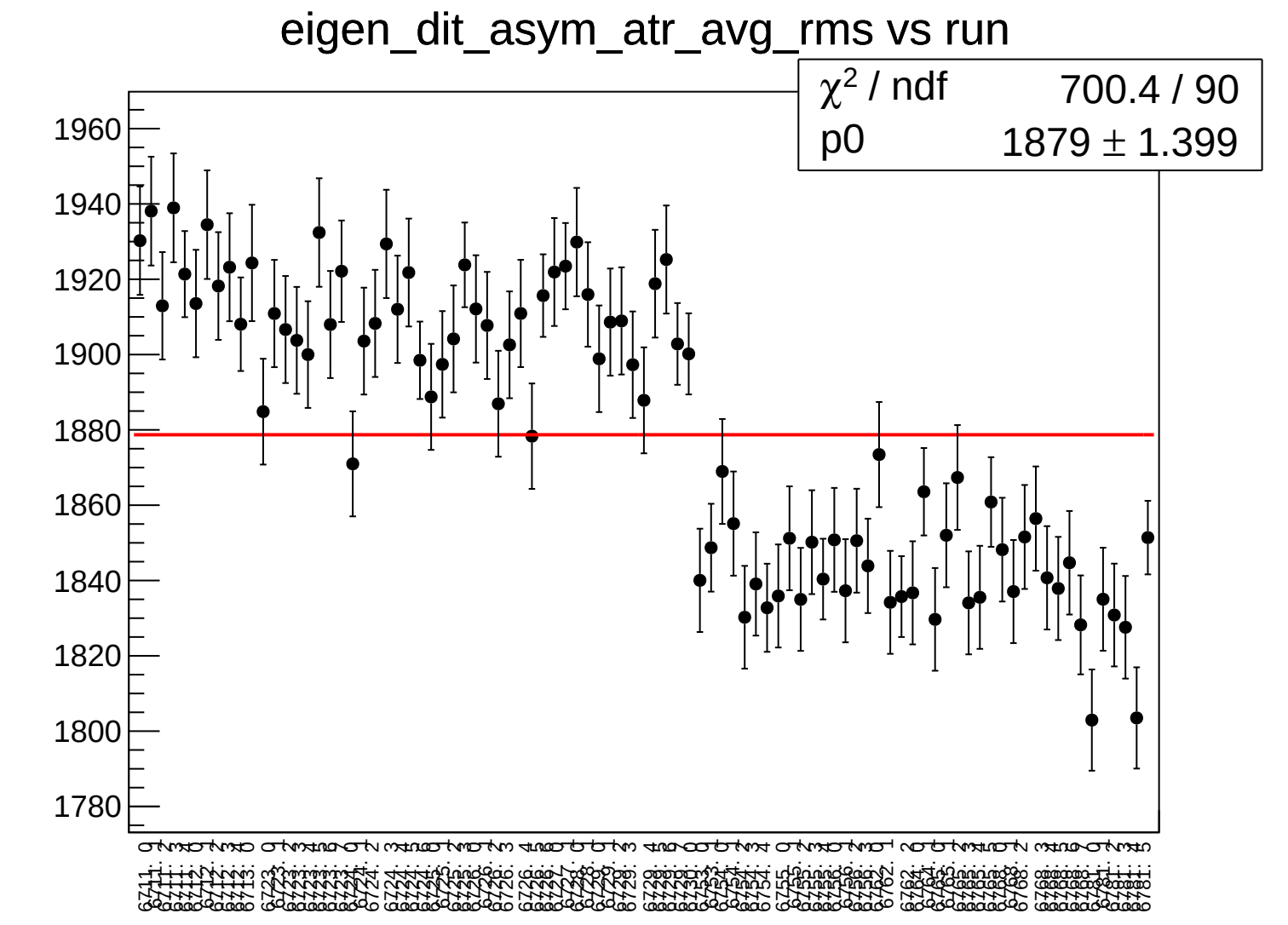

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 81.53 / 90
p0 −644 ± 4390
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −61.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

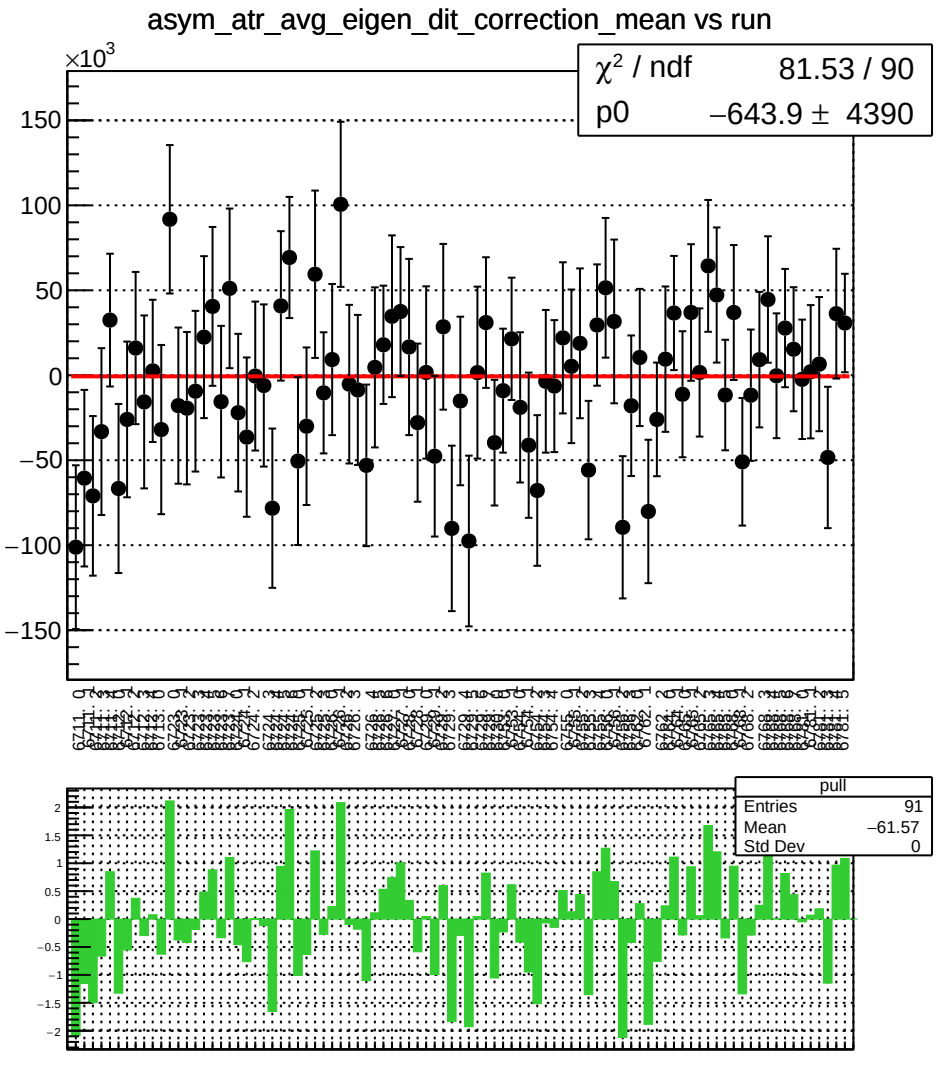

pull1D
Entries 91
Mean −0.03611
Std Dev 0.9458
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

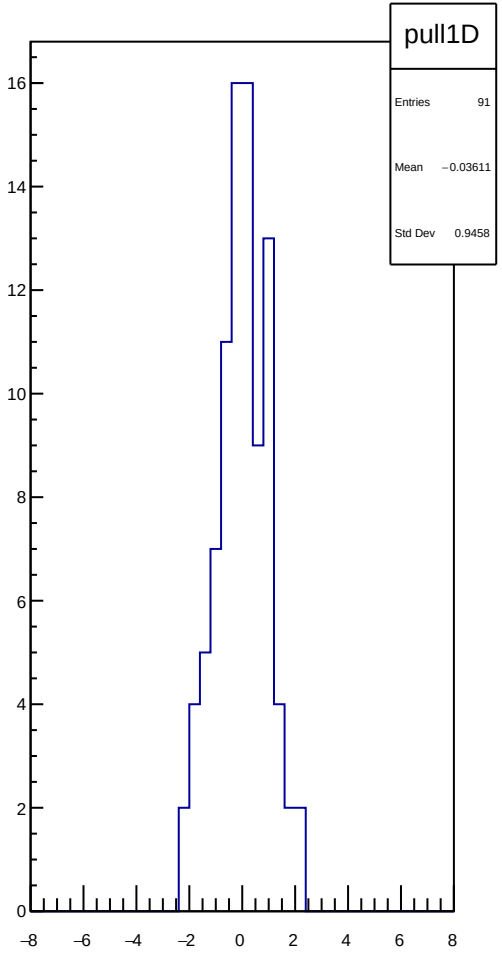

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 1.803e+04 / 90
p0 4149 ± 3.104
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

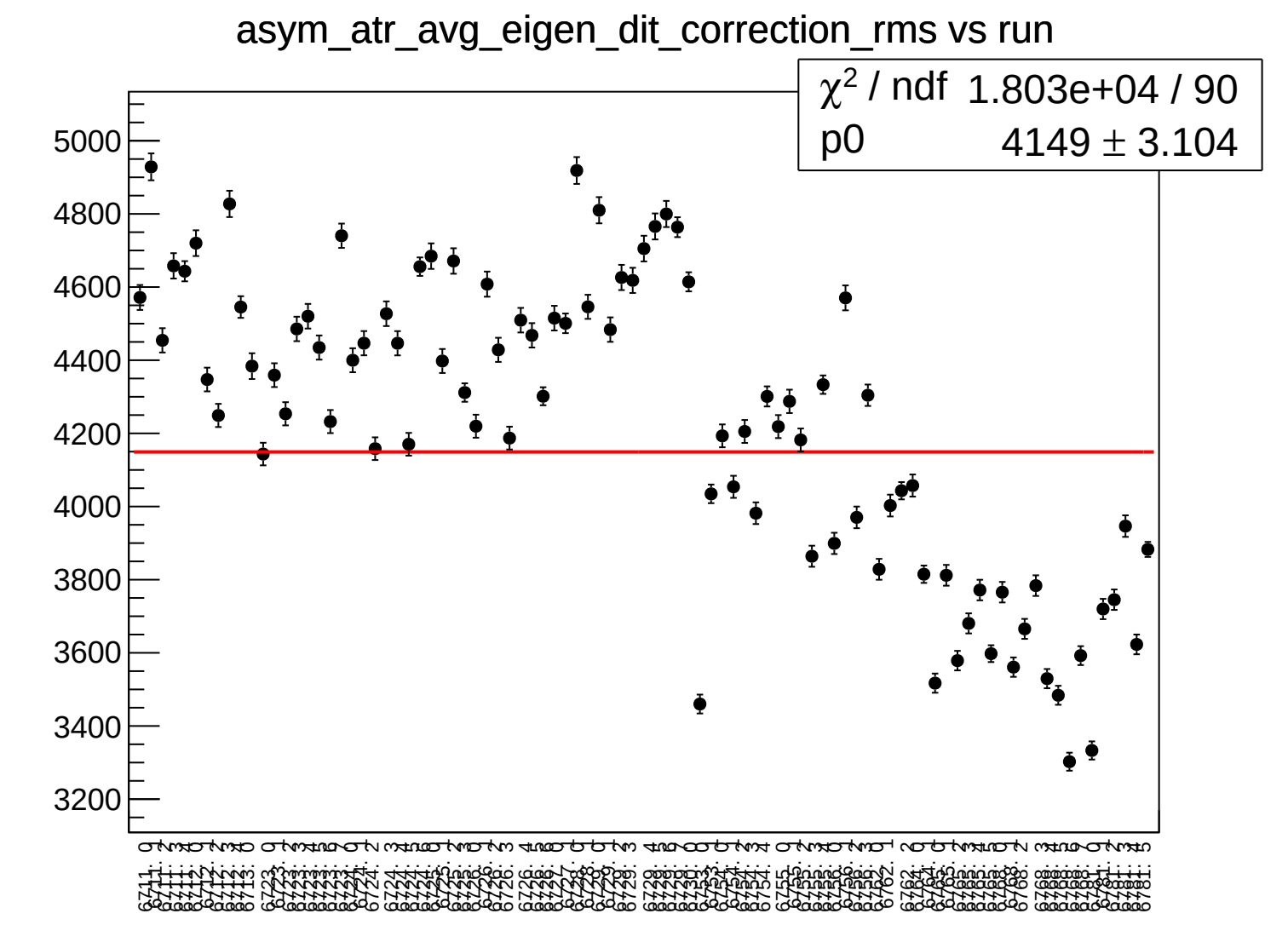

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 94.95 / 90
p0 −5677 ± 1978
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 3422
Std Dev 0
2
1
0
−1
−2
−3

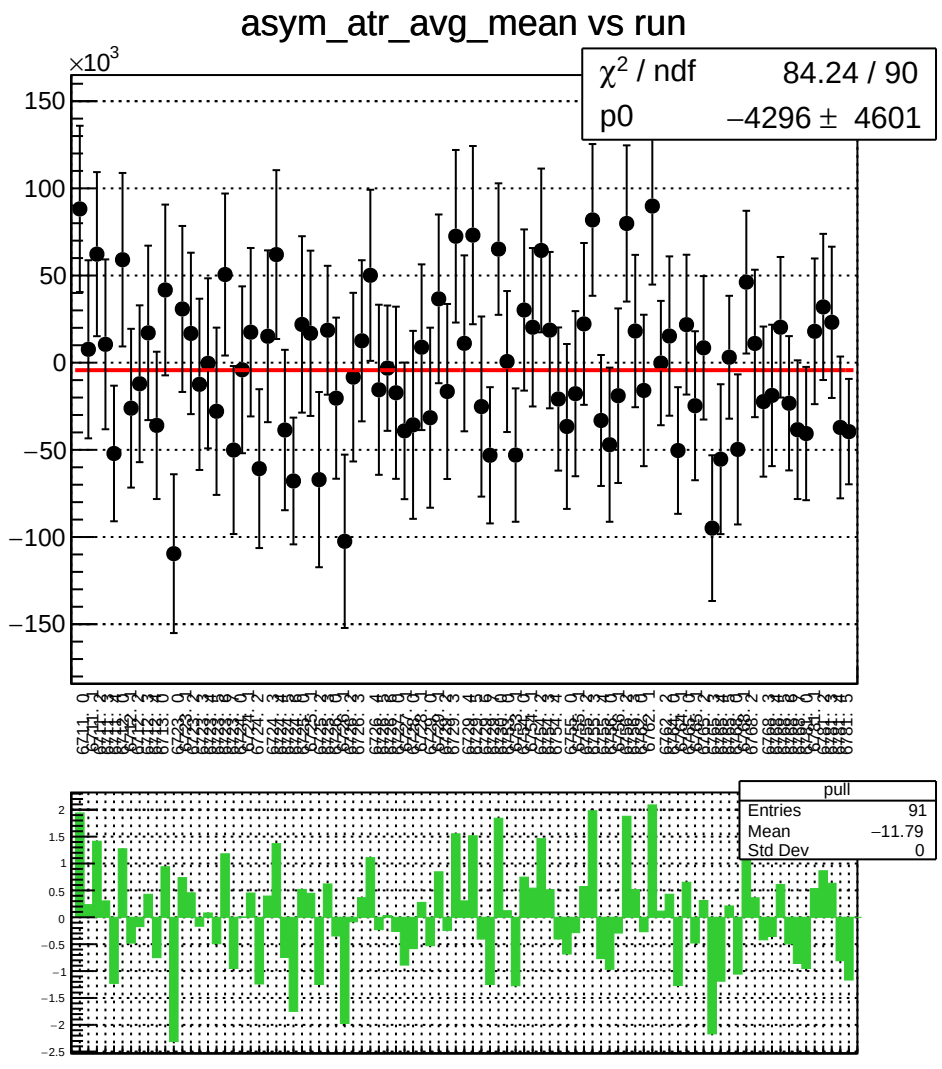

pull1D
Entries 91
Mean 0.00152
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

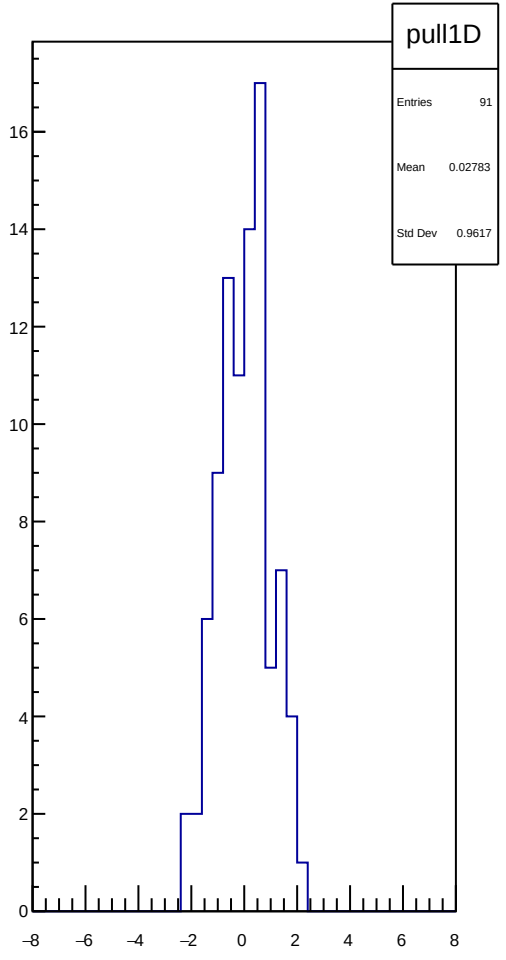

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 700.4 / 90
p0 1879 ± 1.399
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

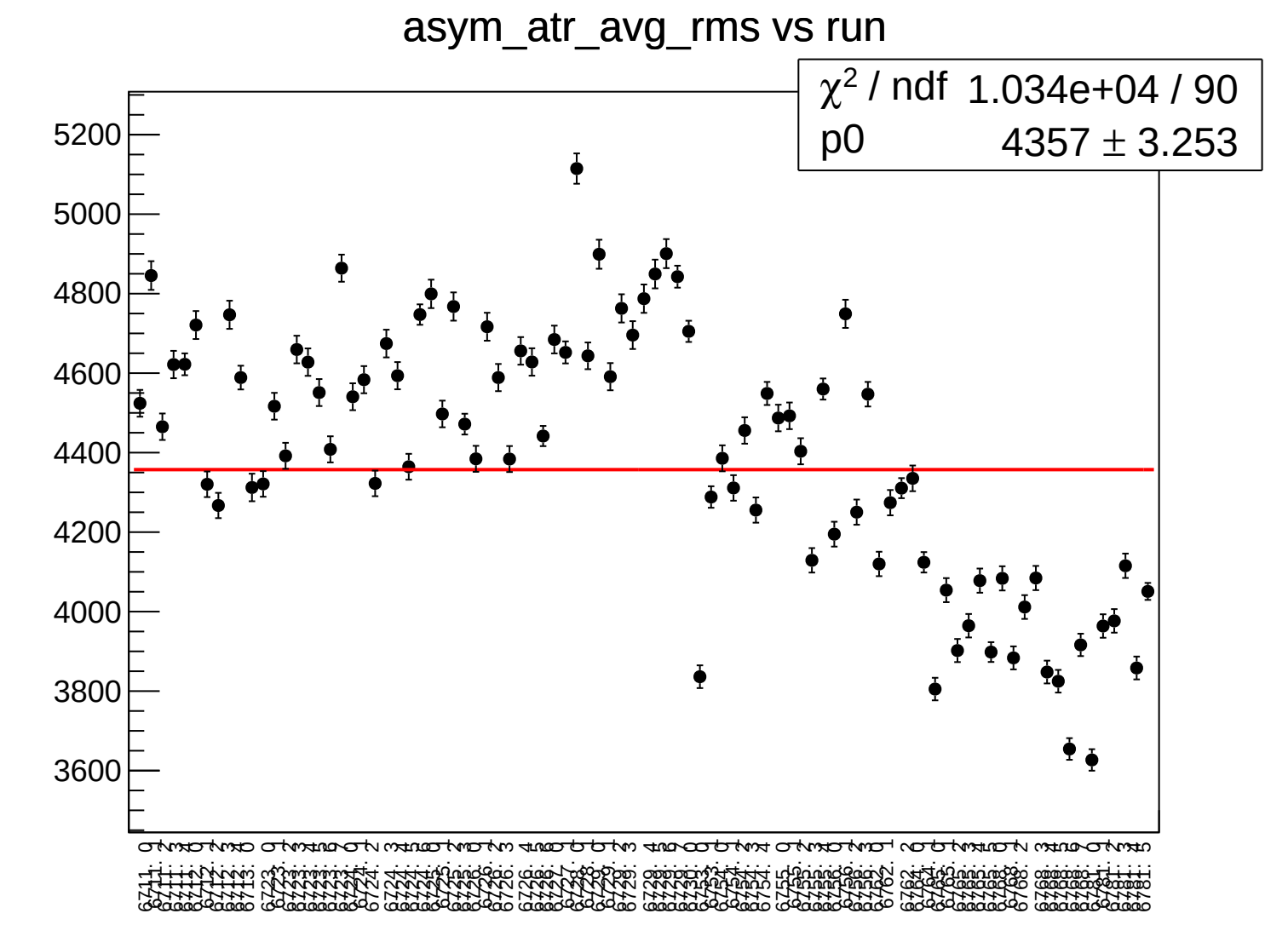

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.53 / 90
p0 −643.9 ± 4390
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −61.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

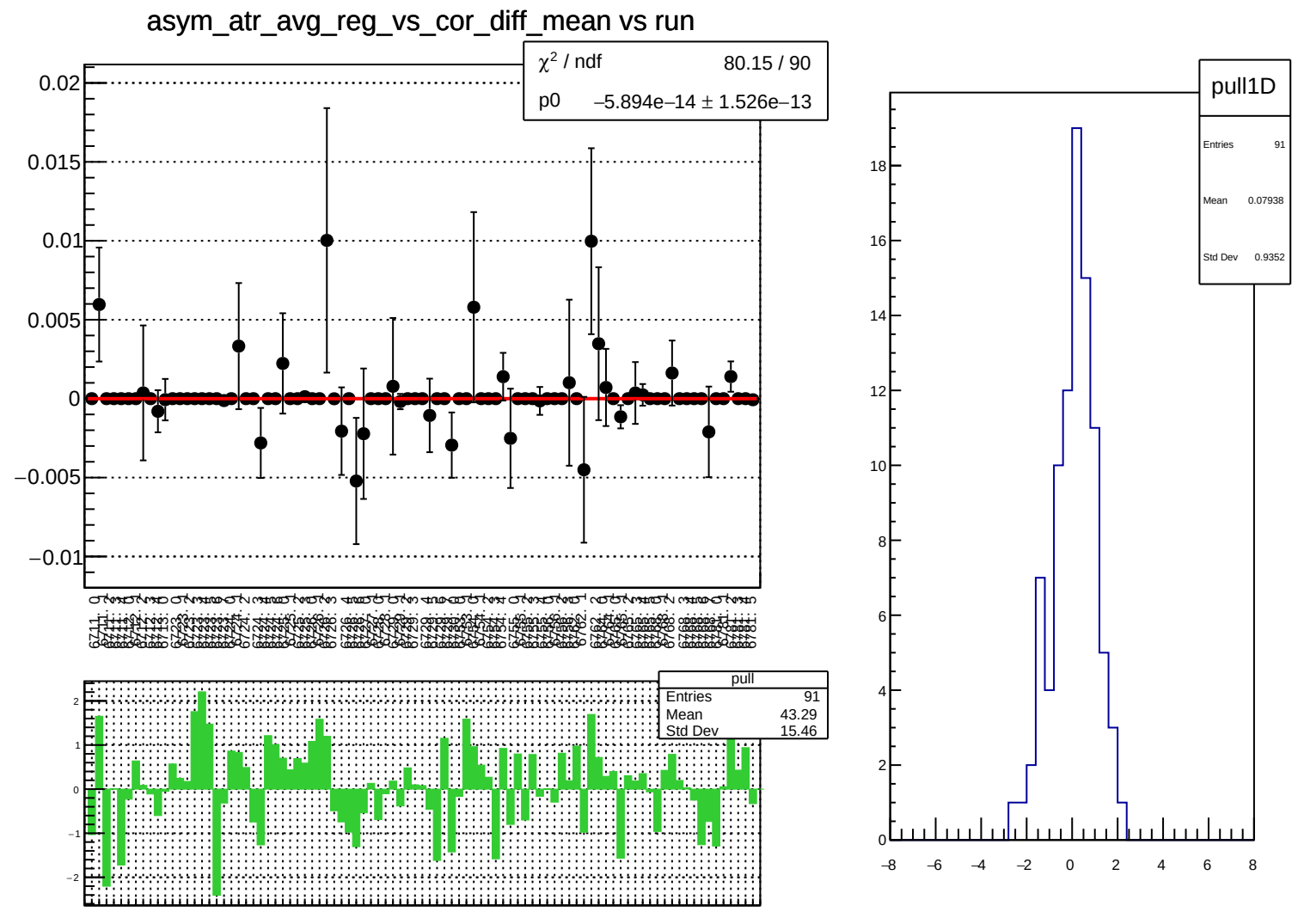

pull1D
Entries 91
Mean −0.03611
Std Dev 0.9458
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

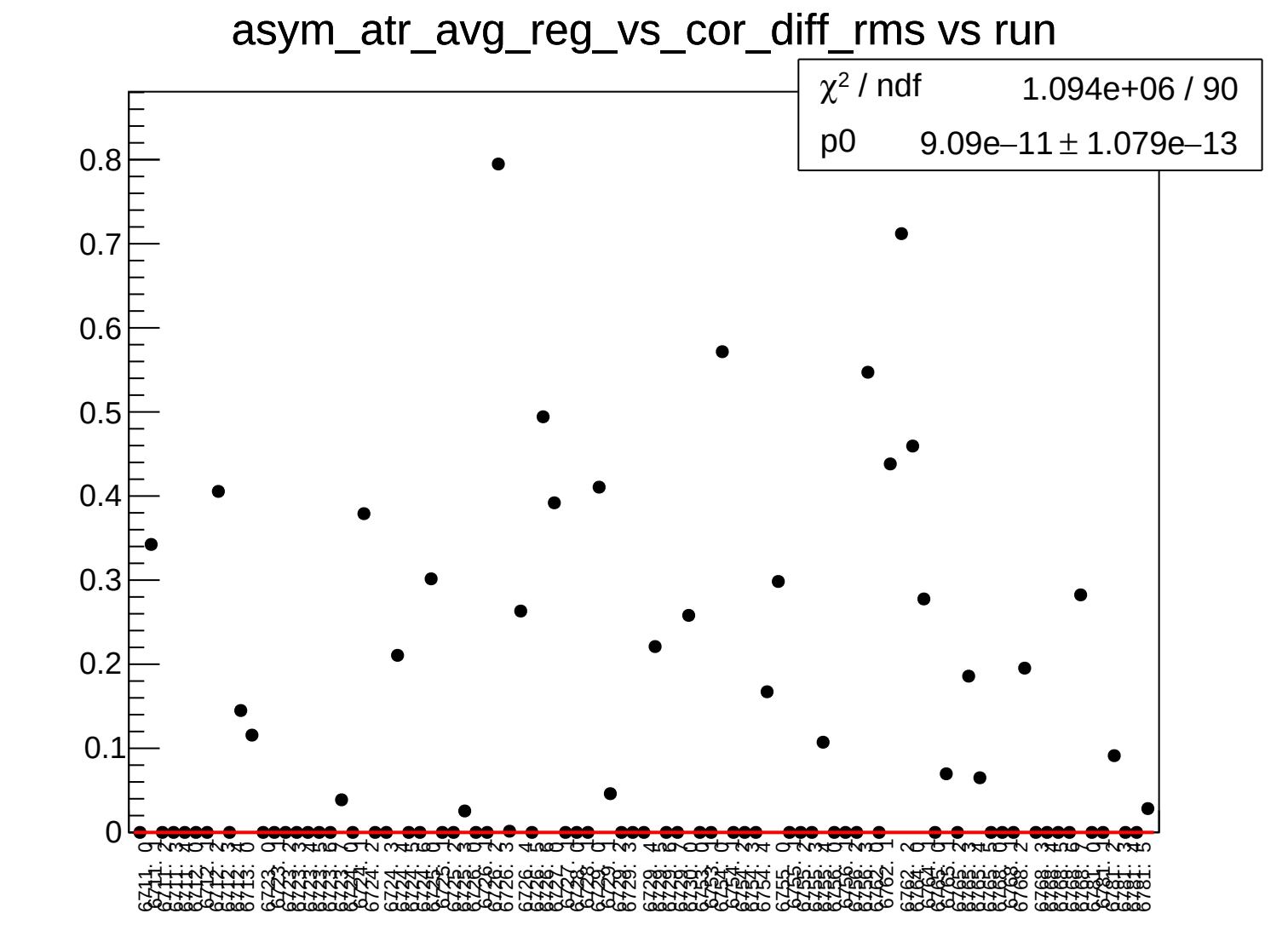

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.803e+04 / 90
p0 4149 ± 3.104
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

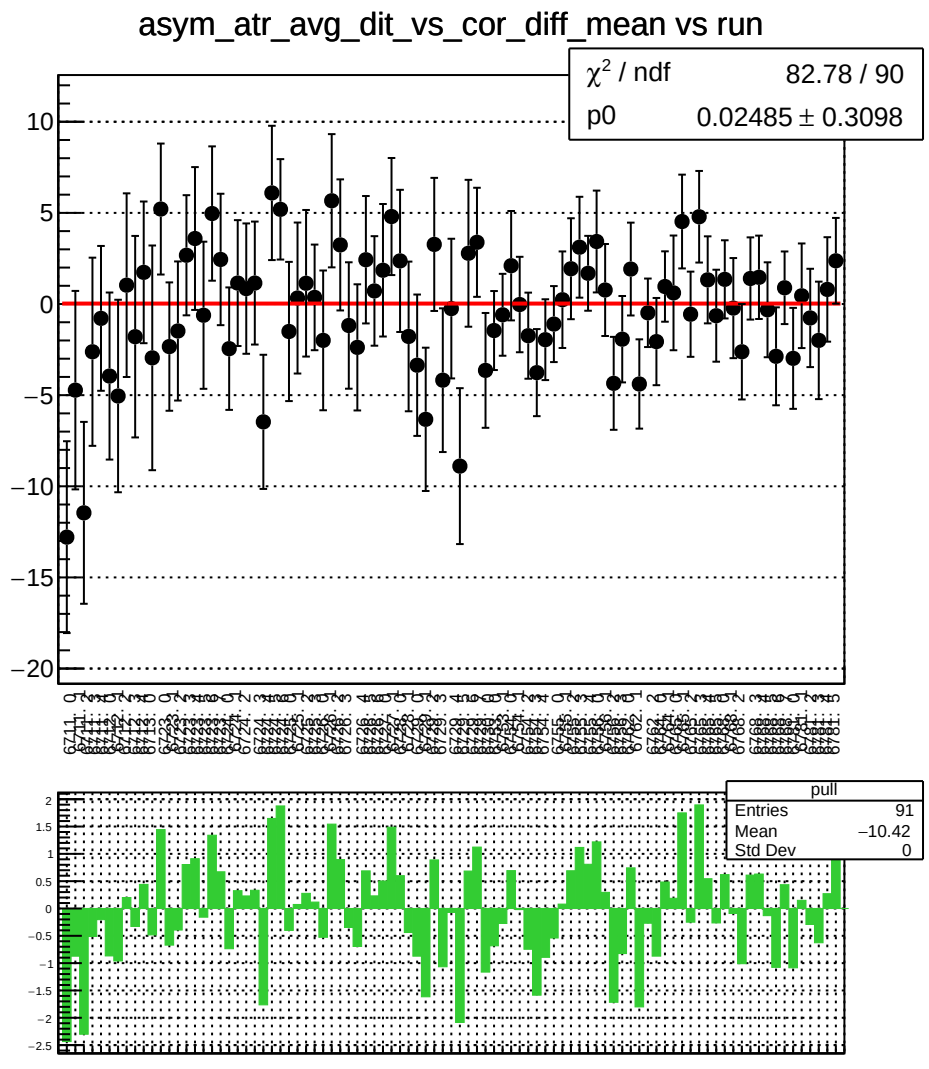

asym_atr_avg_mean vs run
×10^3
χ² / ndf 84.24 / 90
p0 −4296 ± 4601
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −11.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

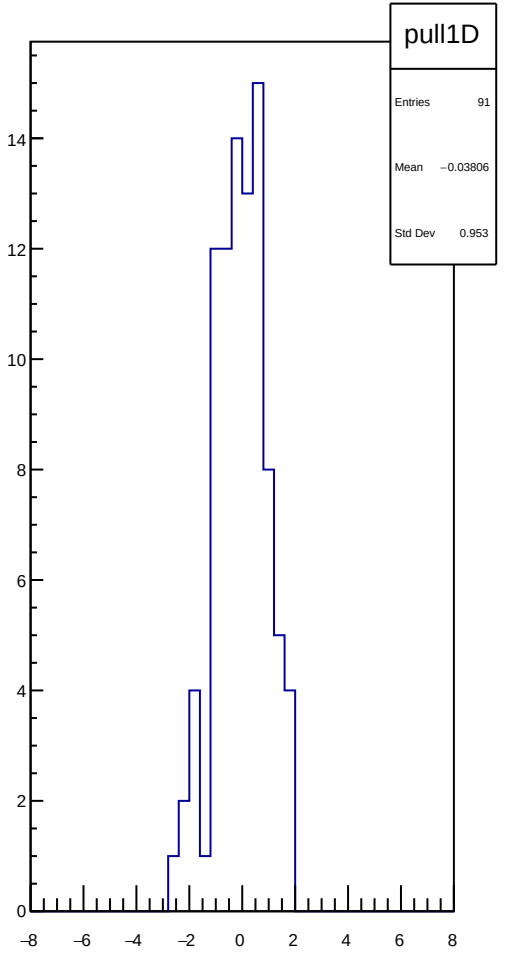

pull1D
Entries 91
Mean 0.02783
Std Dev 0.9617
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

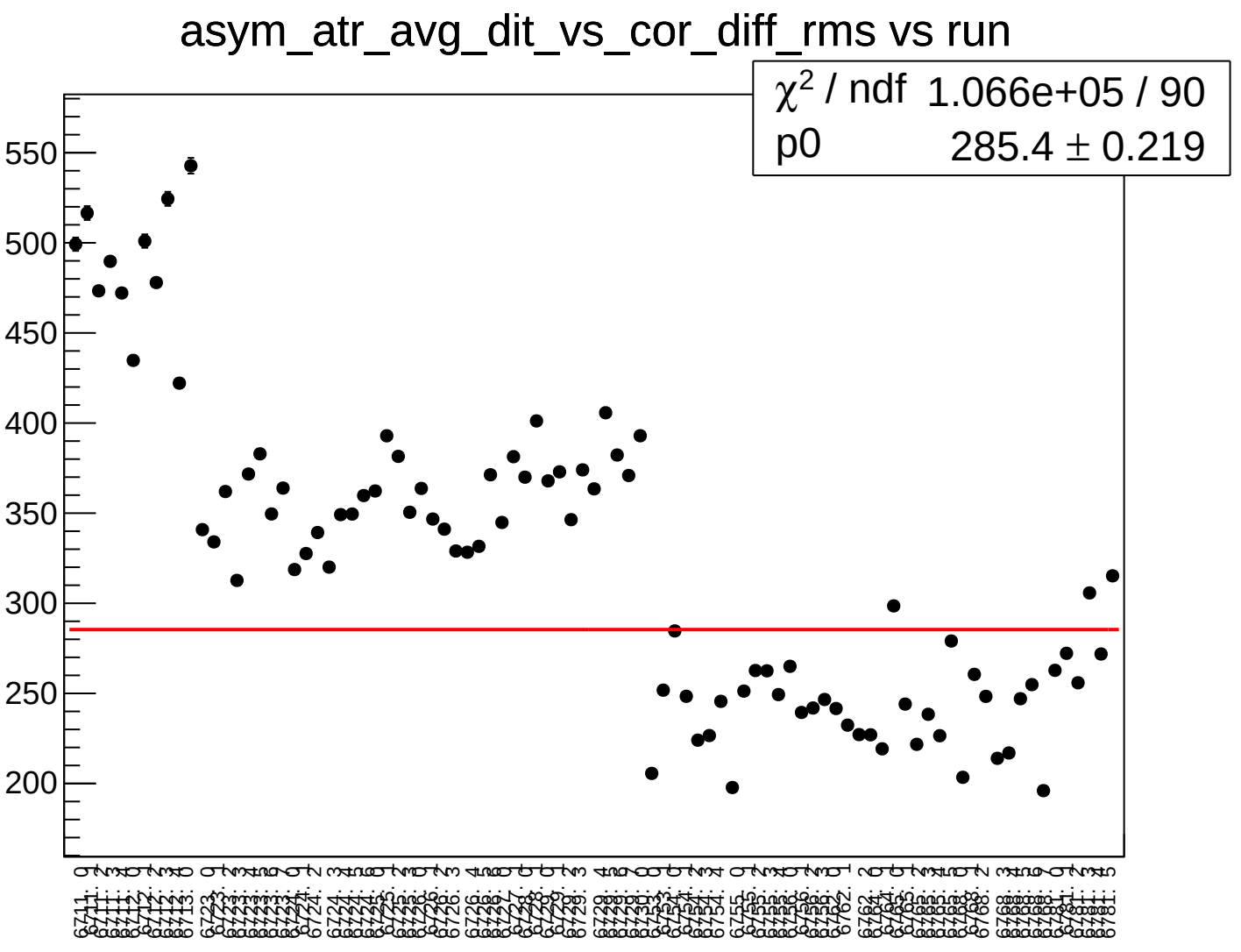

asym_atr_avg_rms vs run
χ² / ndf 1.034e+04 / 90
p0 4357 ± 3.253
5200
5000
4800
4600
4400
4200
4000
3800
3600

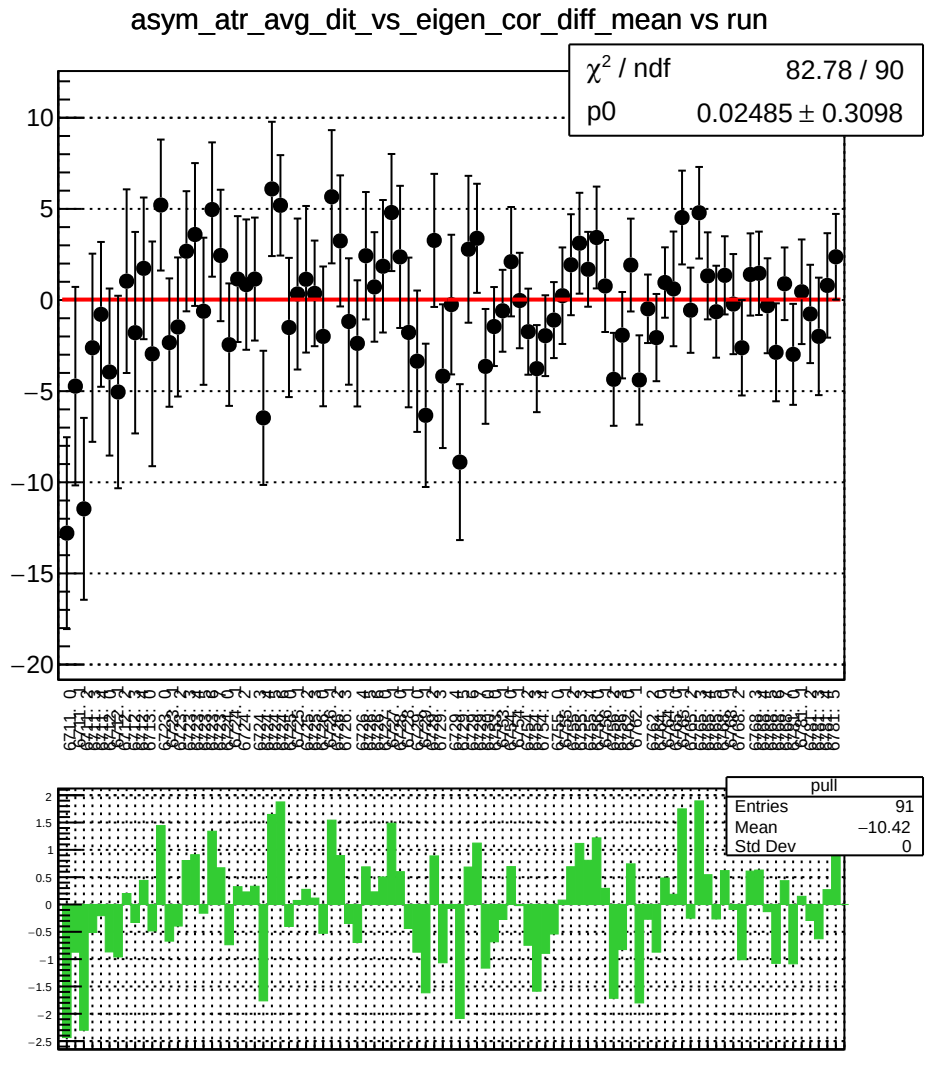

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.15 / 90
p0 −5.894e−14 ± 1.526e−13
pull
Entries 91
Mean 43.29
Std Dev 15.46
pull1D
Entries 91
Mean 0.07938
Std Dev 0.9352

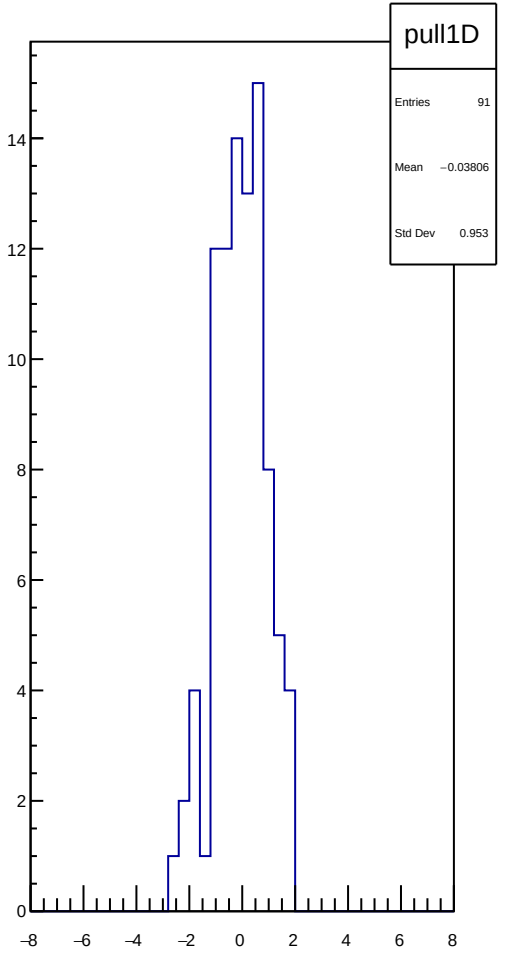

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.094e+06 / 90
p0 9.09e−11 ± 1.079e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

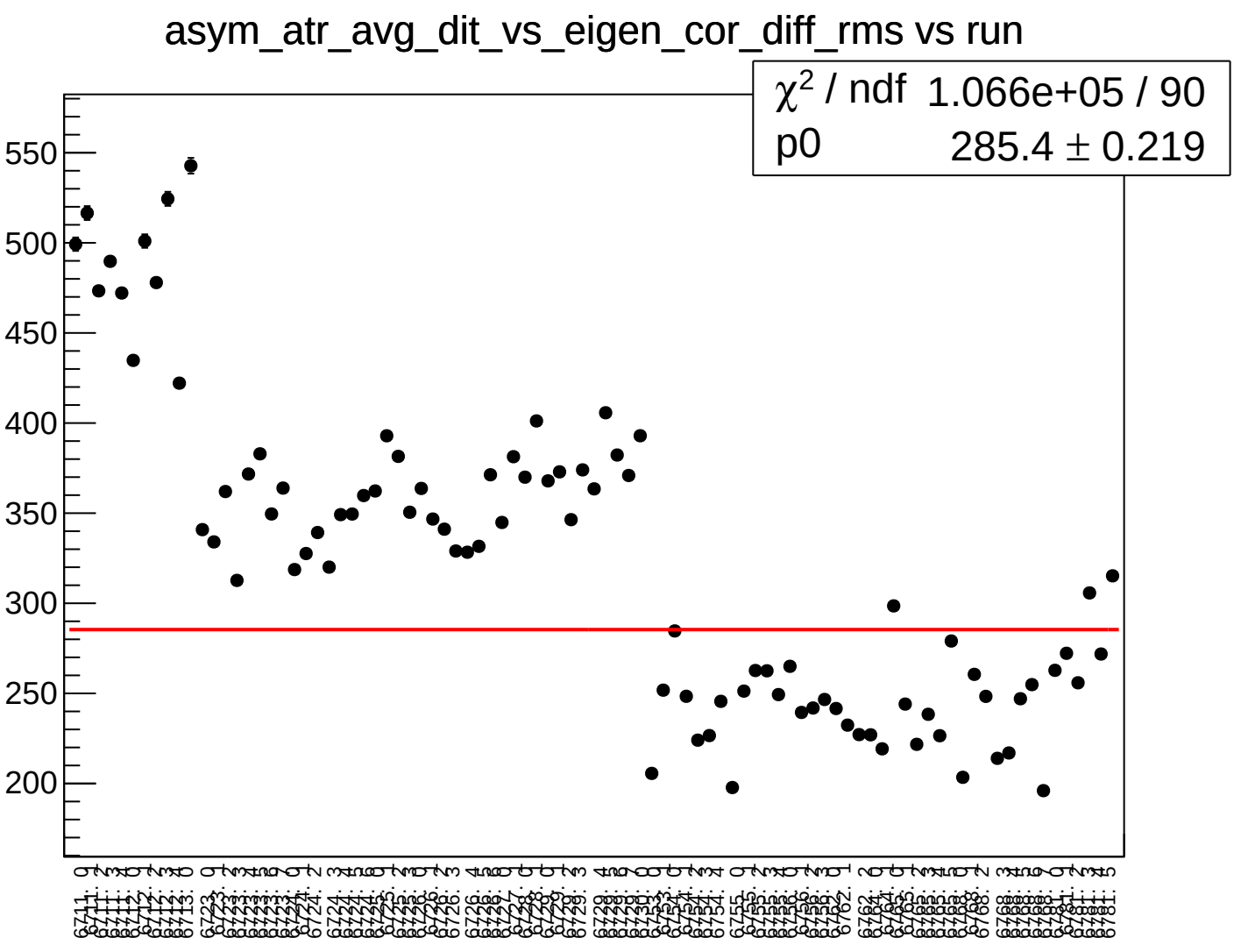

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.78 / 90
p0 0.02485 ± 0.3098
pull
Entries 91
Mean −10.42
Std Dev 0

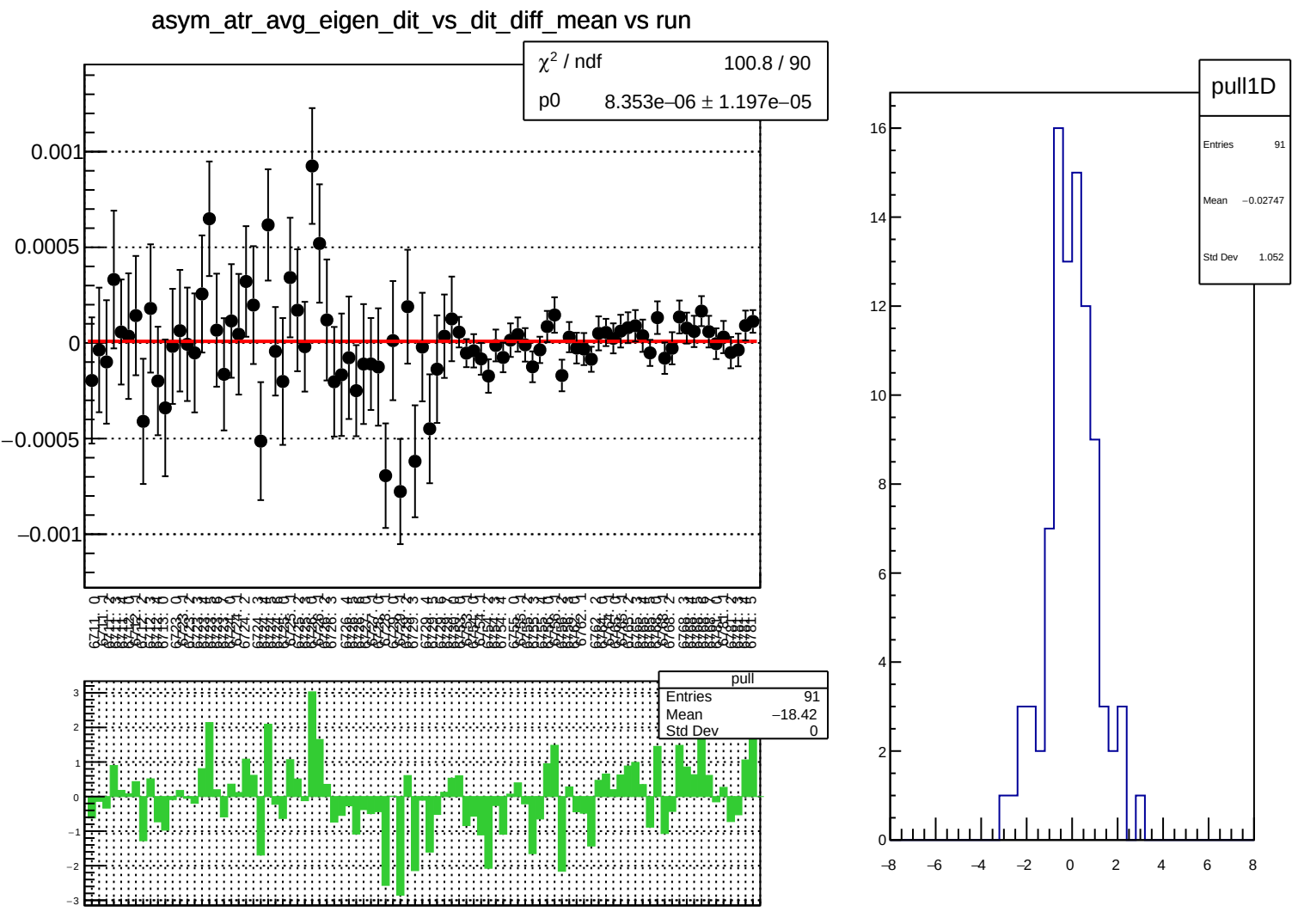

pull1D
Entries 91
Mean −0.03806
Std Dev 0.953

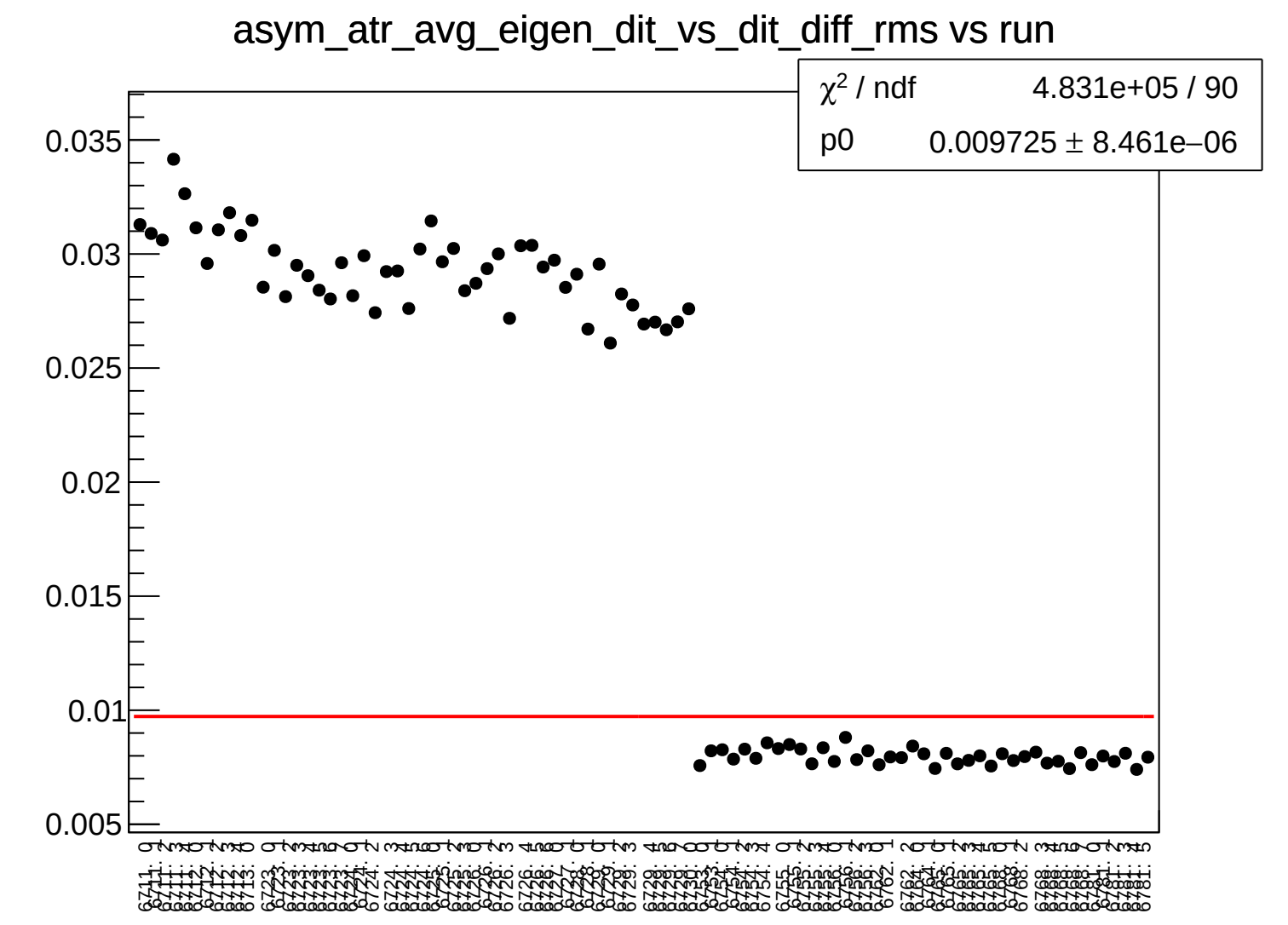

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.066e+05 / 90
p0 285.4 ± 0.219
550
500
450
400
350
300
250
200

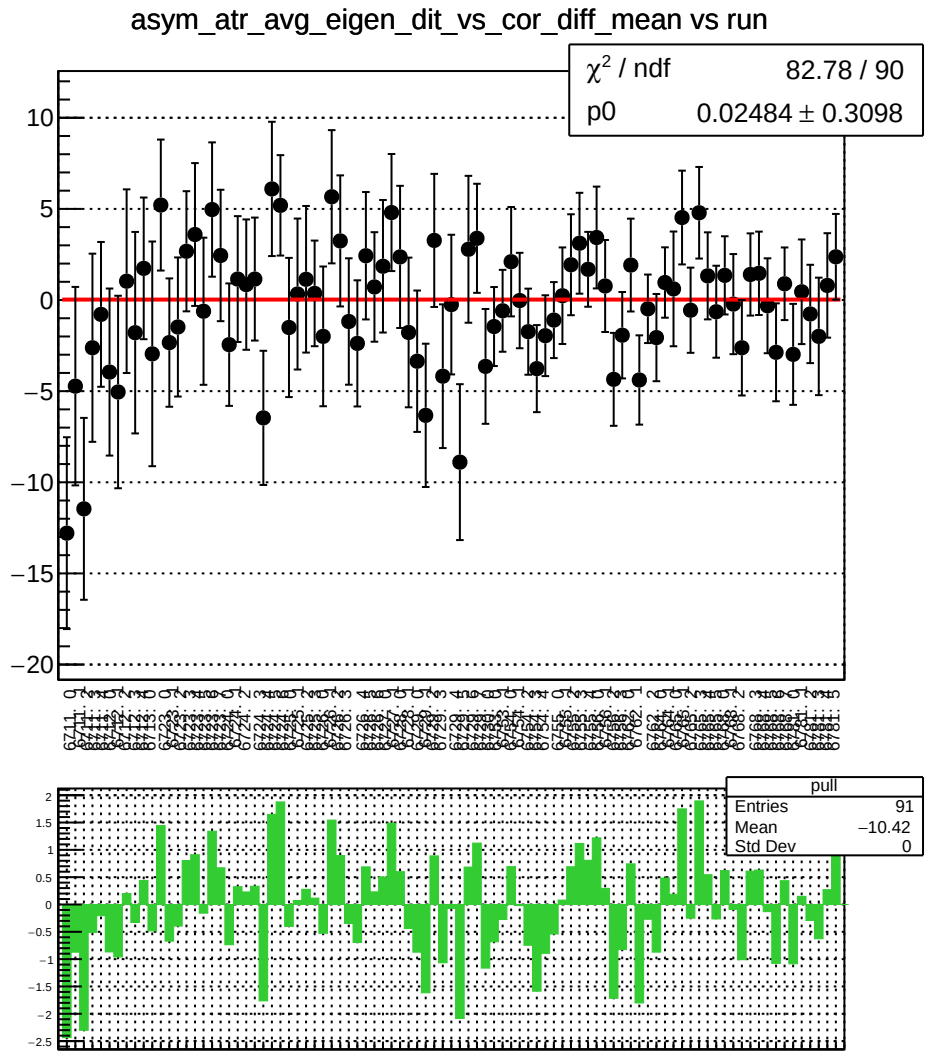

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.78 / 90
p0 0.02485 ± 0.3098
pull
Entries 91
Mean −10.42
Std Dev 0

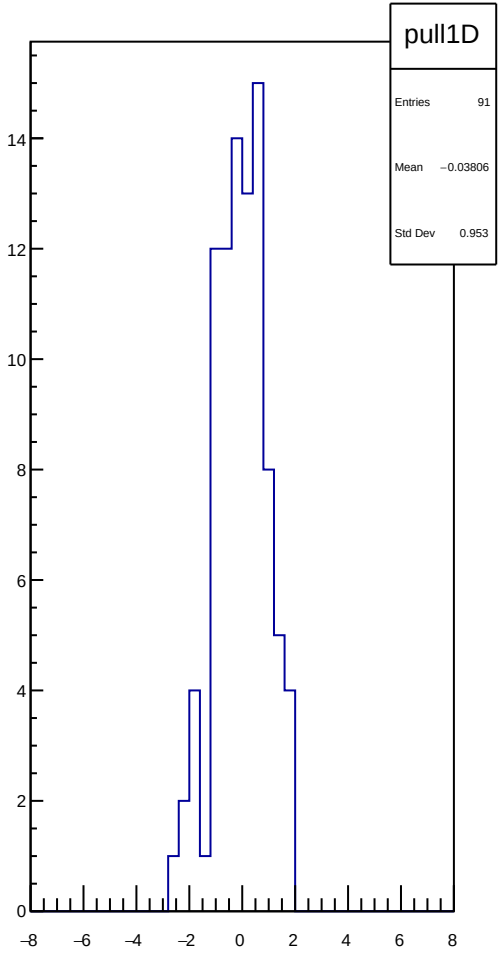

pull1D
Entries 91
Mean −0.03806
Std Dev 0.953

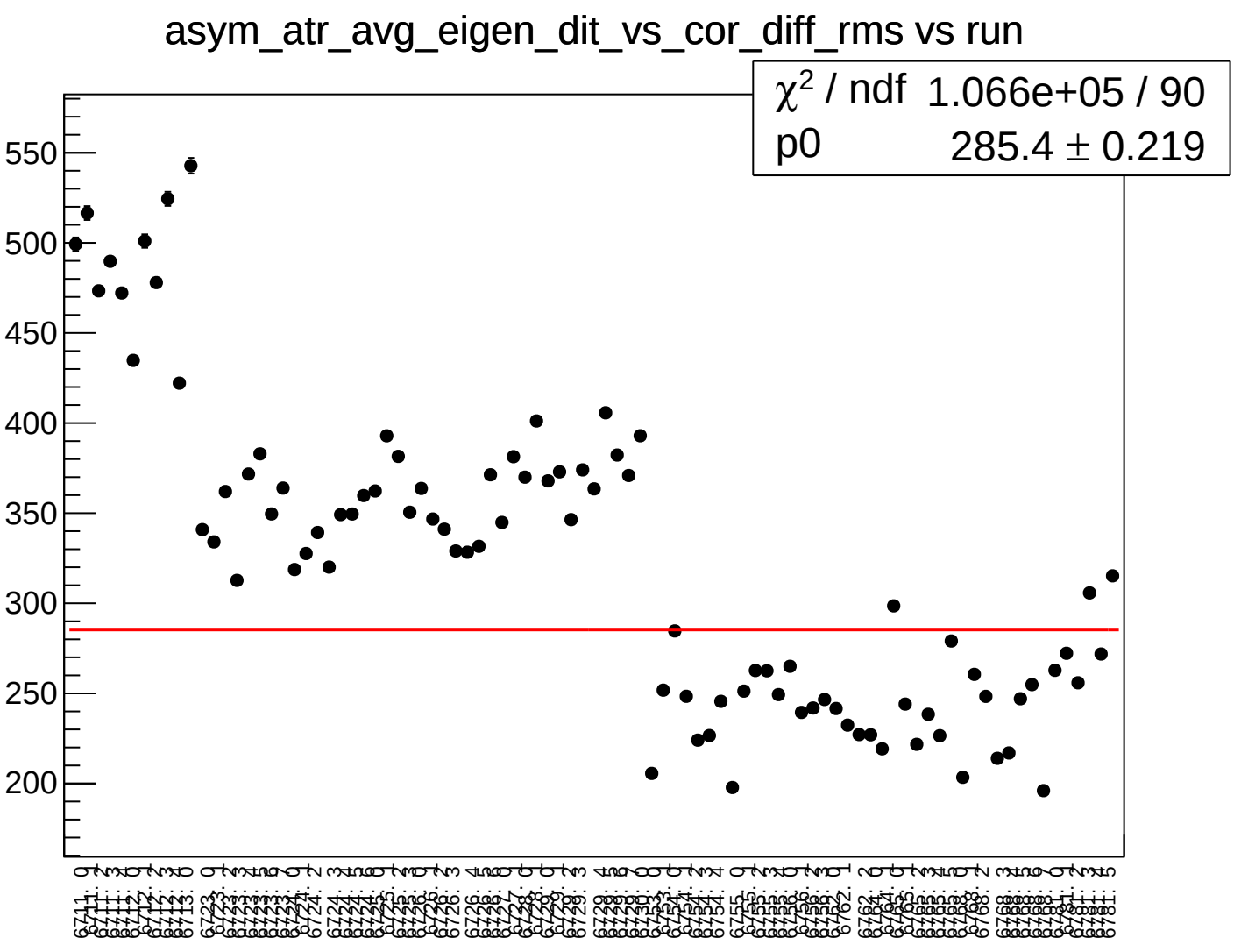

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.066e+05 / 90
p0 285.4 ± 0.219
550
500
450
400
350
300
250
200

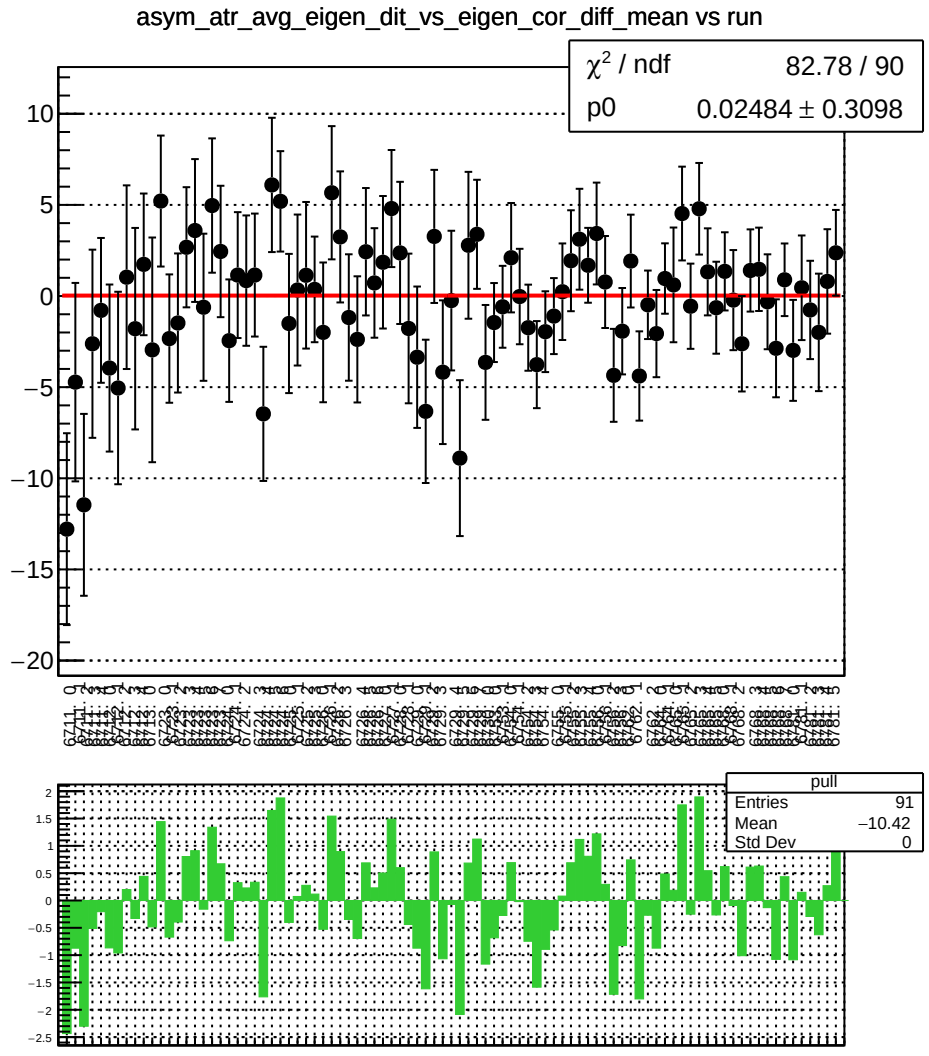

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 100.8 / 90
p0 8.353e−06 ± 1.197e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean −18.42
Std Dev 0
pull1D
Entries 91
Mean −0.02747
Std Dev 1.052

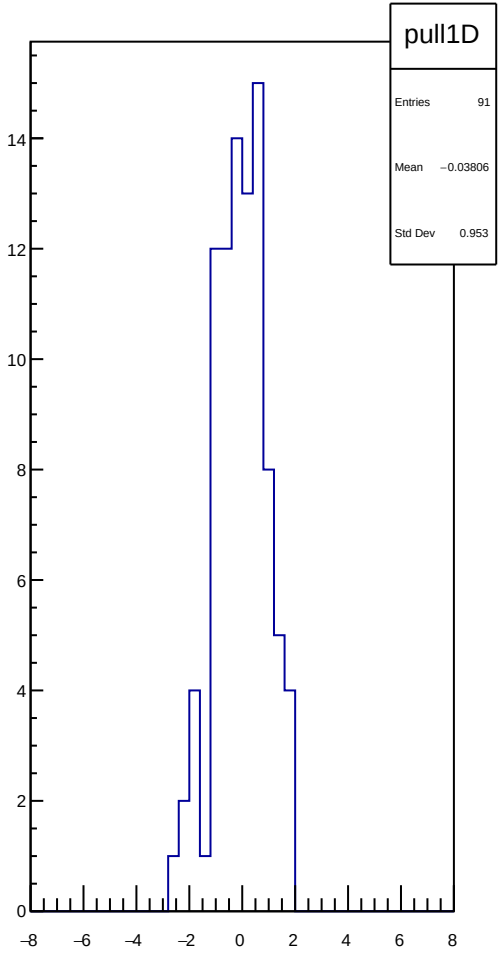

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.831e+05 / 90
p0 0.009725 ± 8.461e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

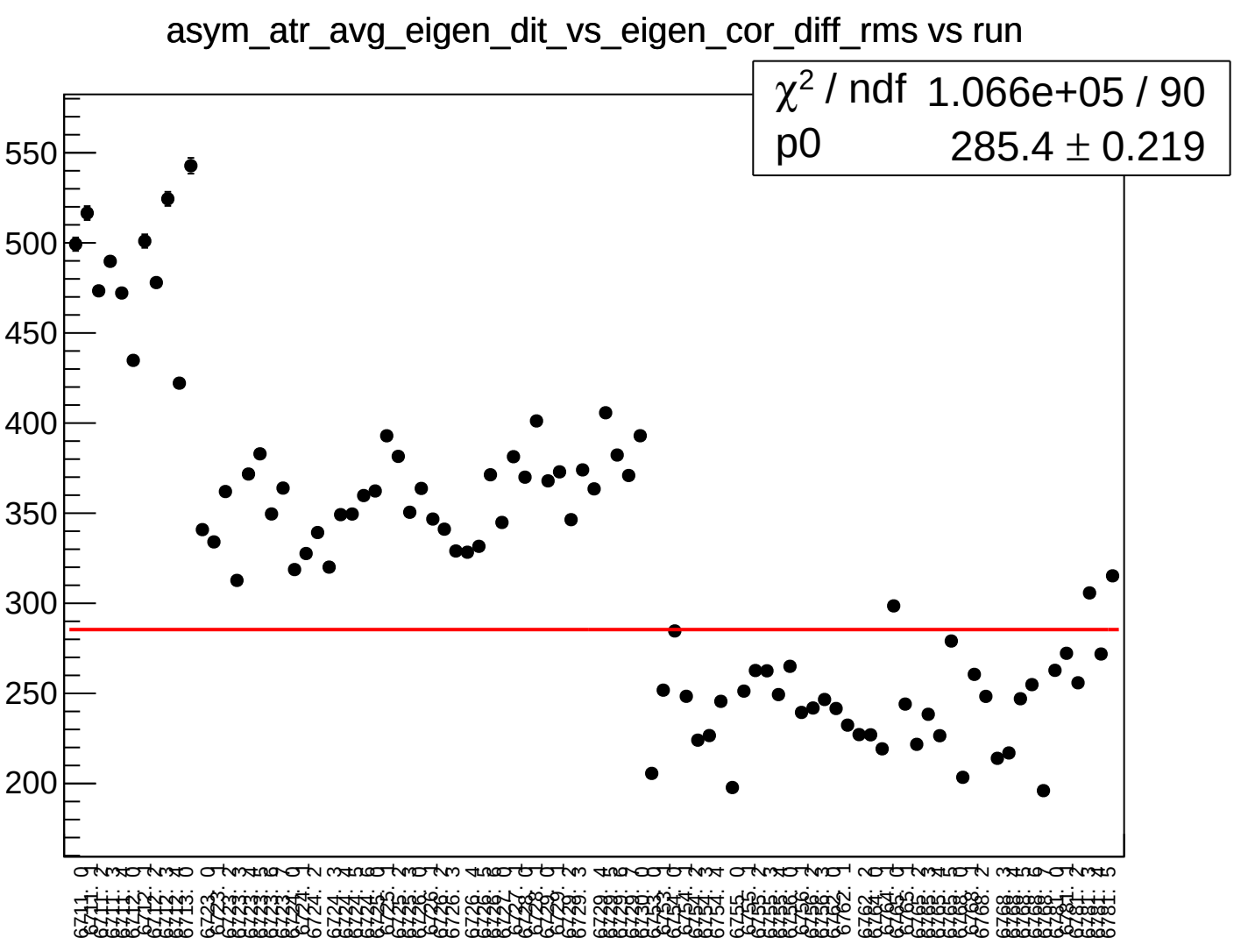

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.78 / 90
p0 0.02484 ± 0.3098
pull
Entries 91
Mean −10.42
Std Dev 0

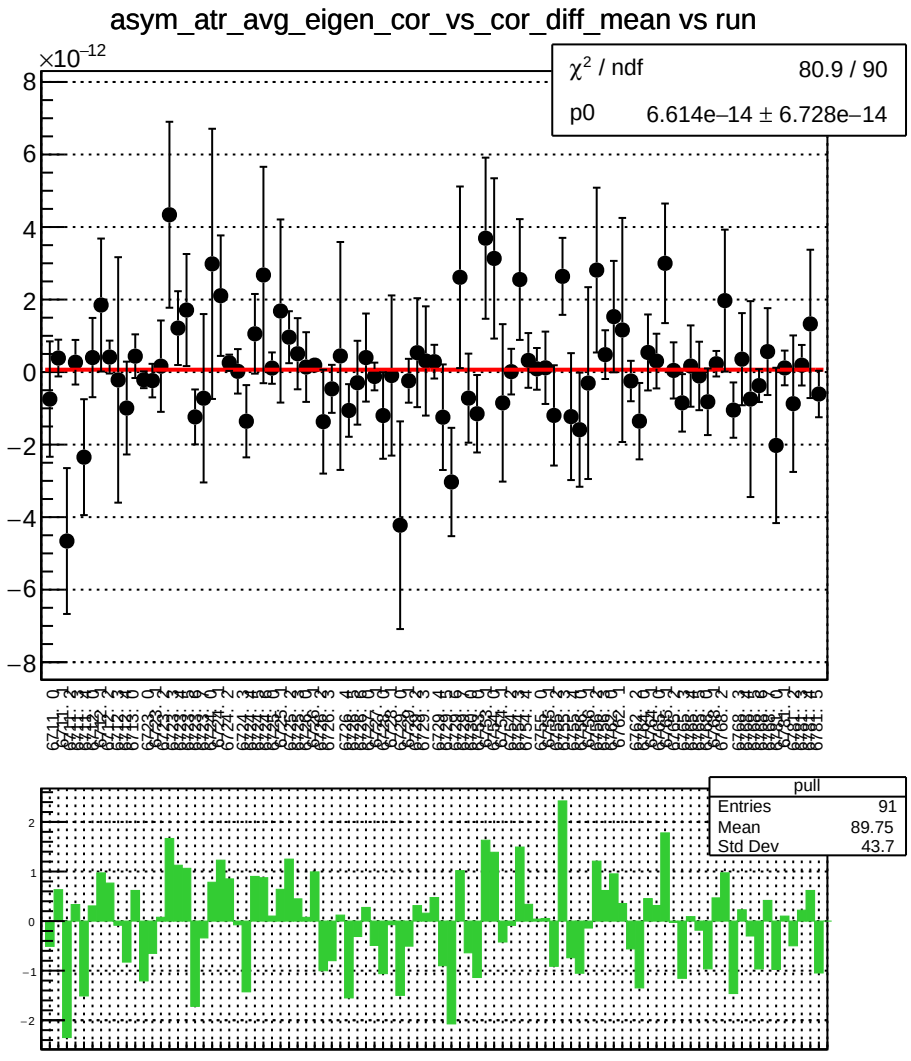

pull1D
Entries 91
Mean −0.03806
Std Dev 0.953

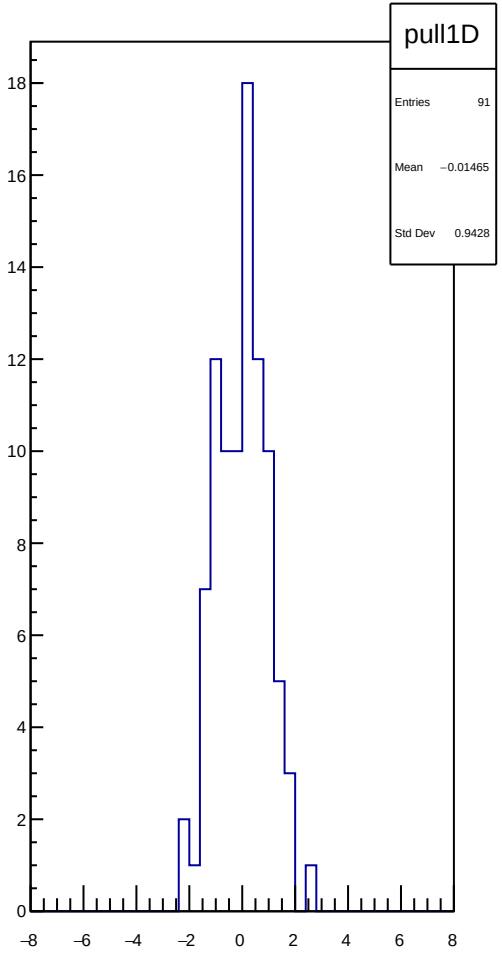

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.066e+05 / 90
p0 285.4 ± 0.219
550
500
450
400
350
300
250
200

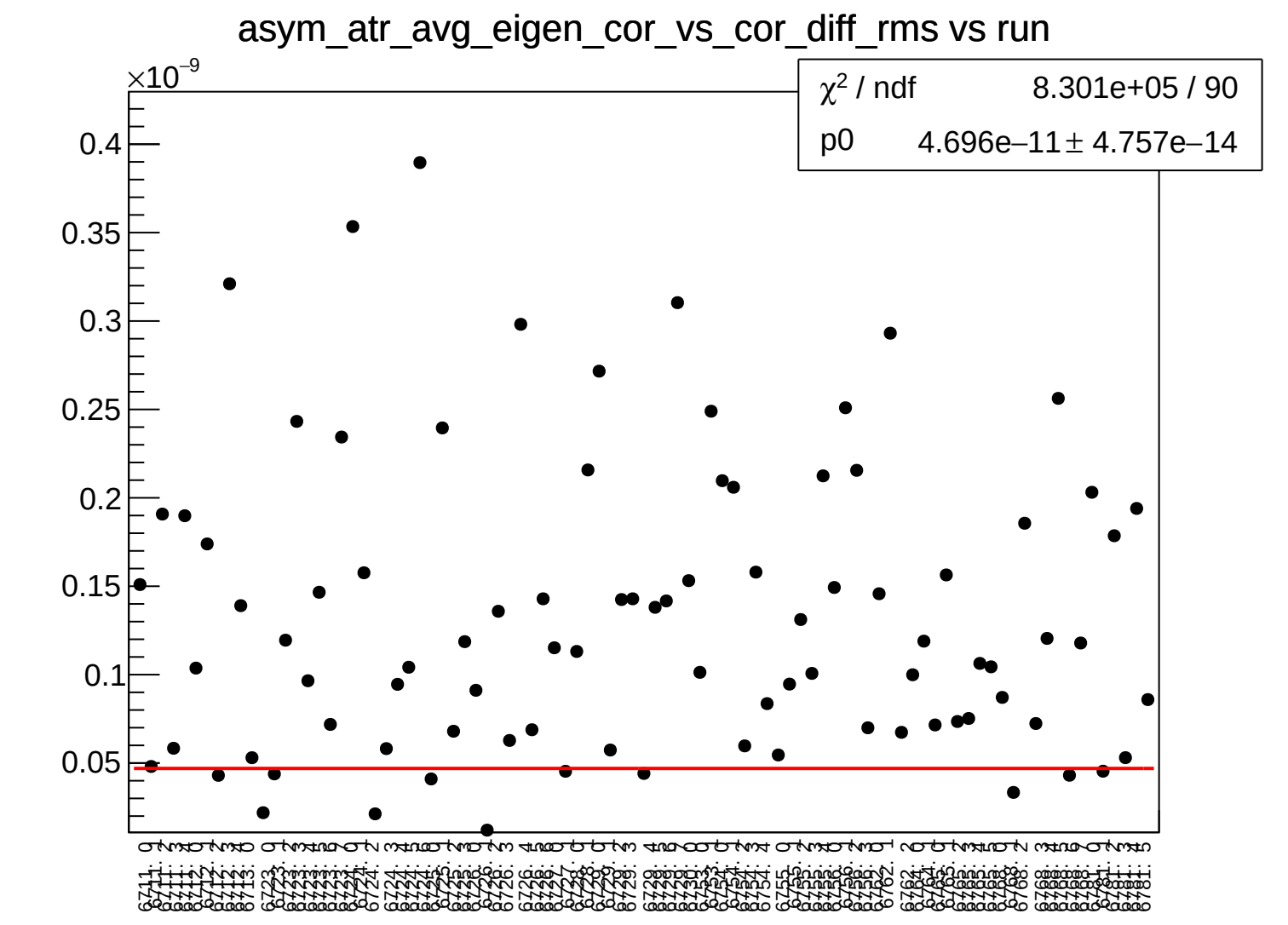

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.78 / 90
p0 0.02484 ± 0.3098
pull
Entries 91
Mean −10.42
Std Dev 0

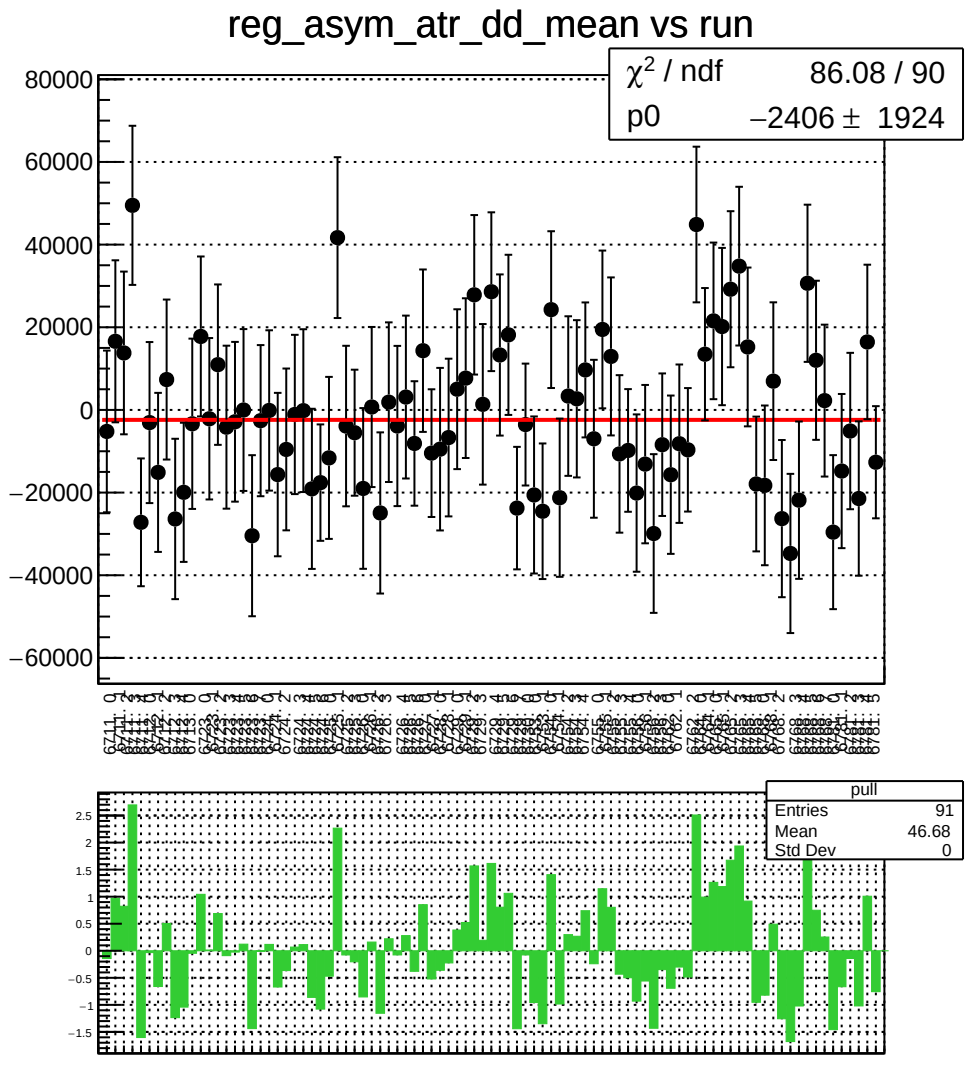

pull1D
Entries 91
Mean −0.03806
Std Dev 0.953

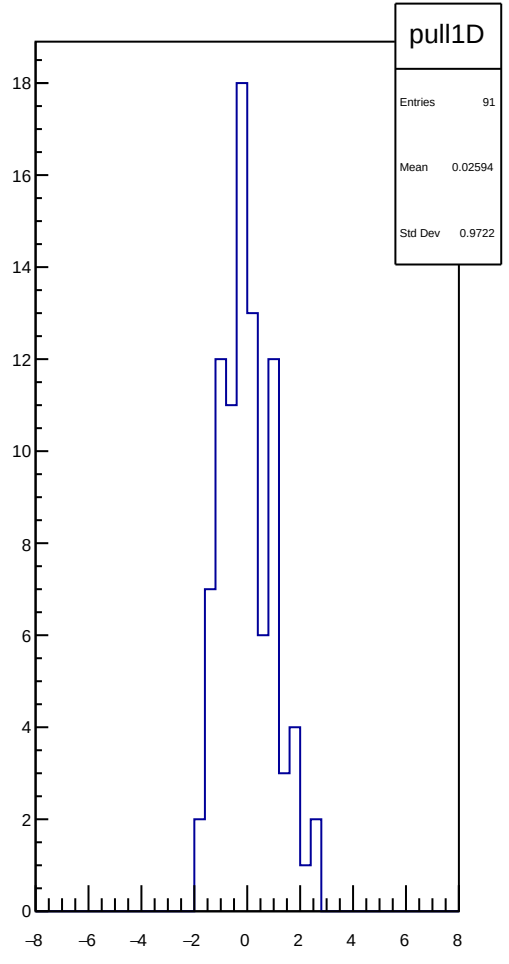

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.066e+05 / 90
p0 285.4 ± 0.219
550
500
450
400
350
300
250
200

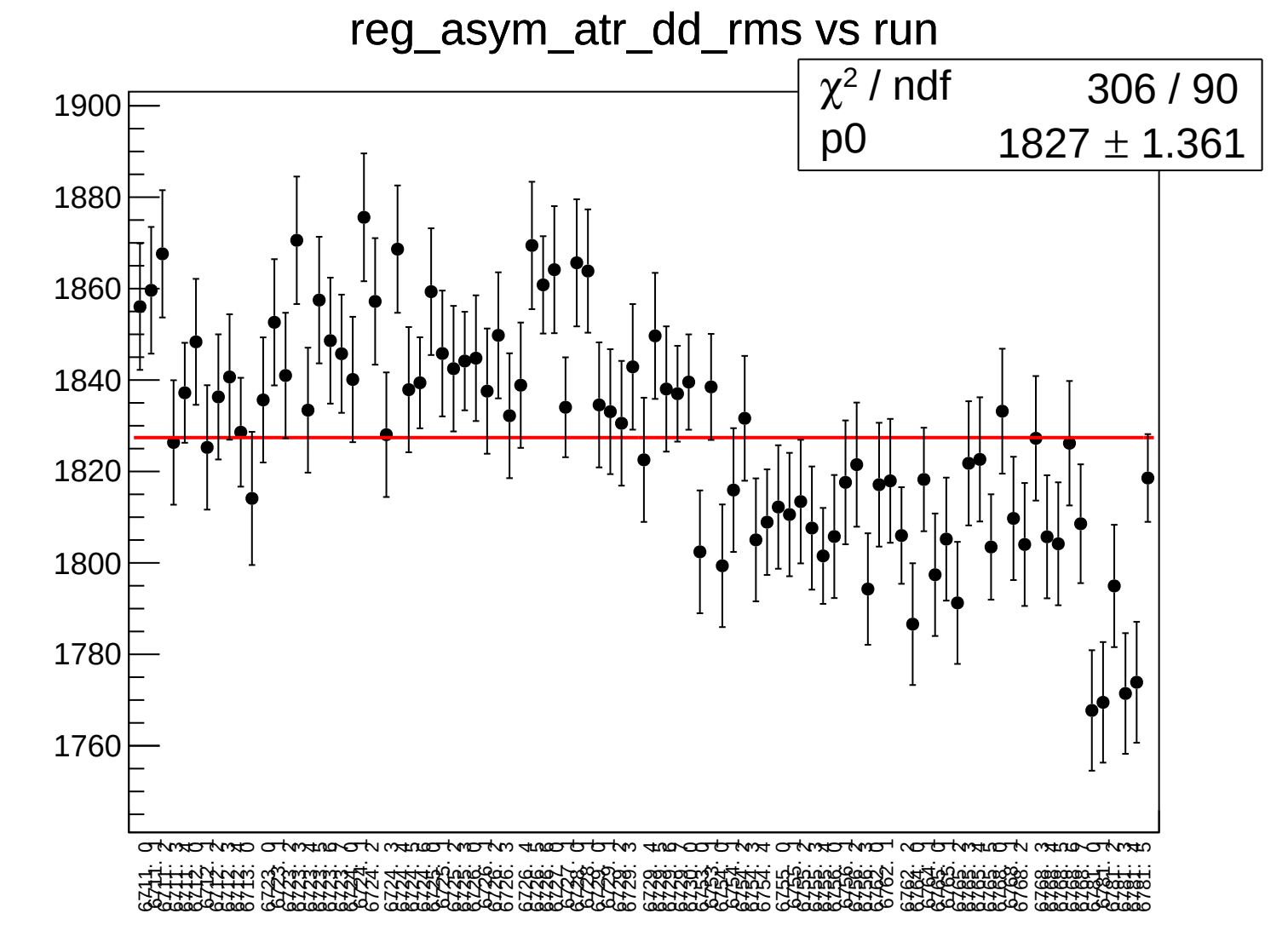

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.9 / 90
p0 6.614e−14 ± 6.728e−14
pull
Entries 91
Mean 89.75
Std Dev 43.7

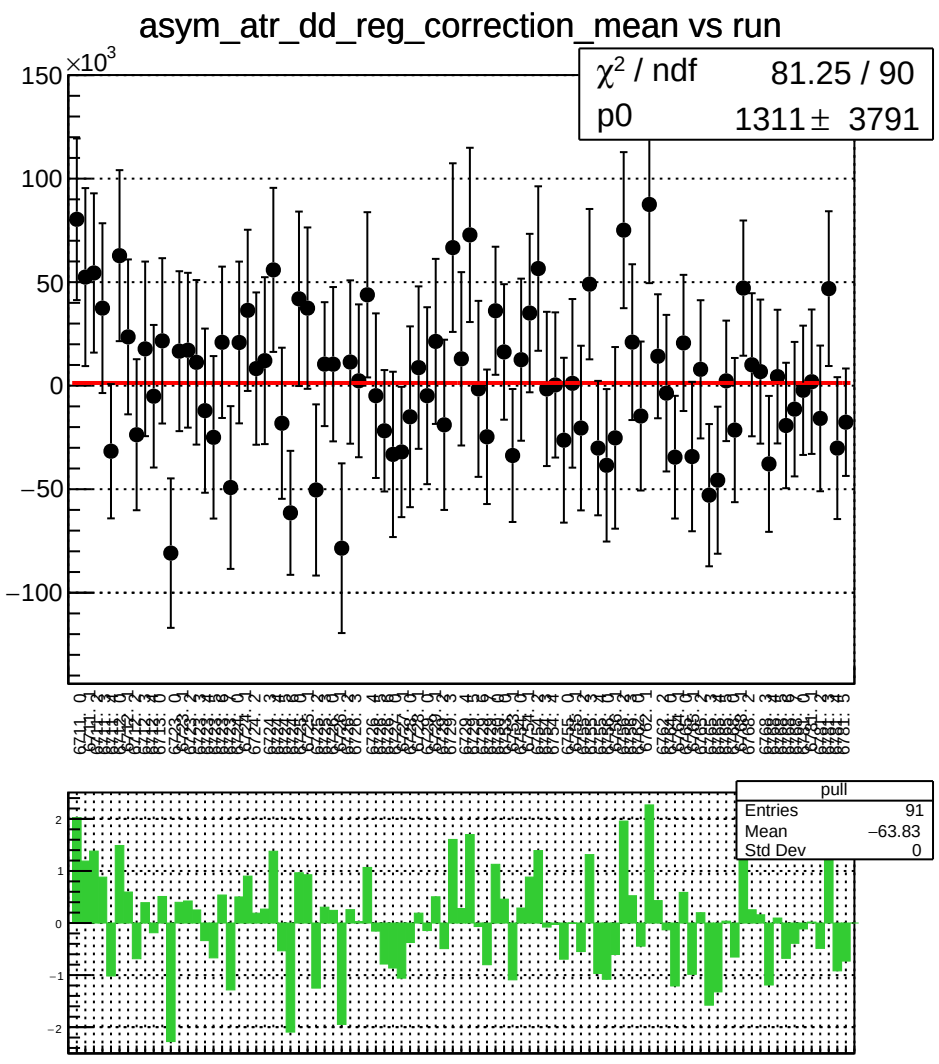

pull1D
Entries 91
Mean −0.01465
Std Dev 0.9428

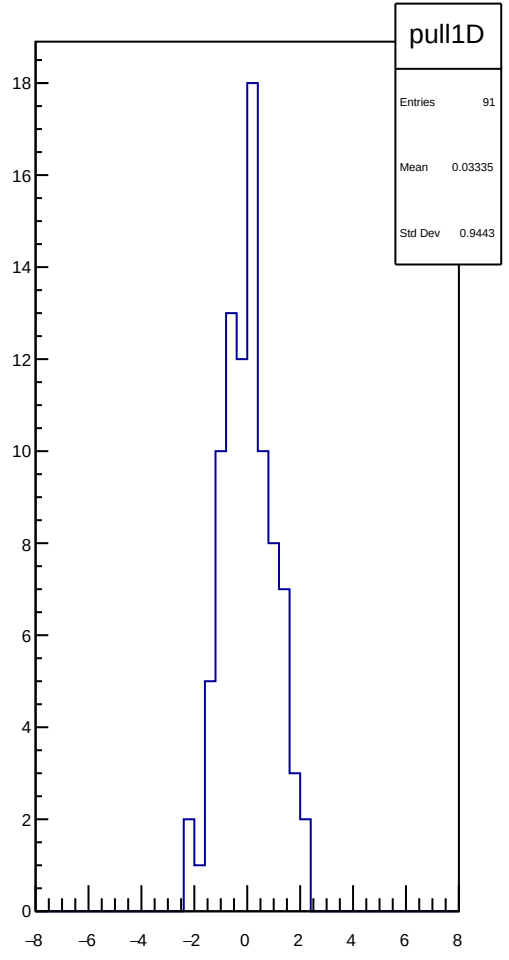

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.301e+05 / 90
p0 4.696e−11 ± 4.757e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

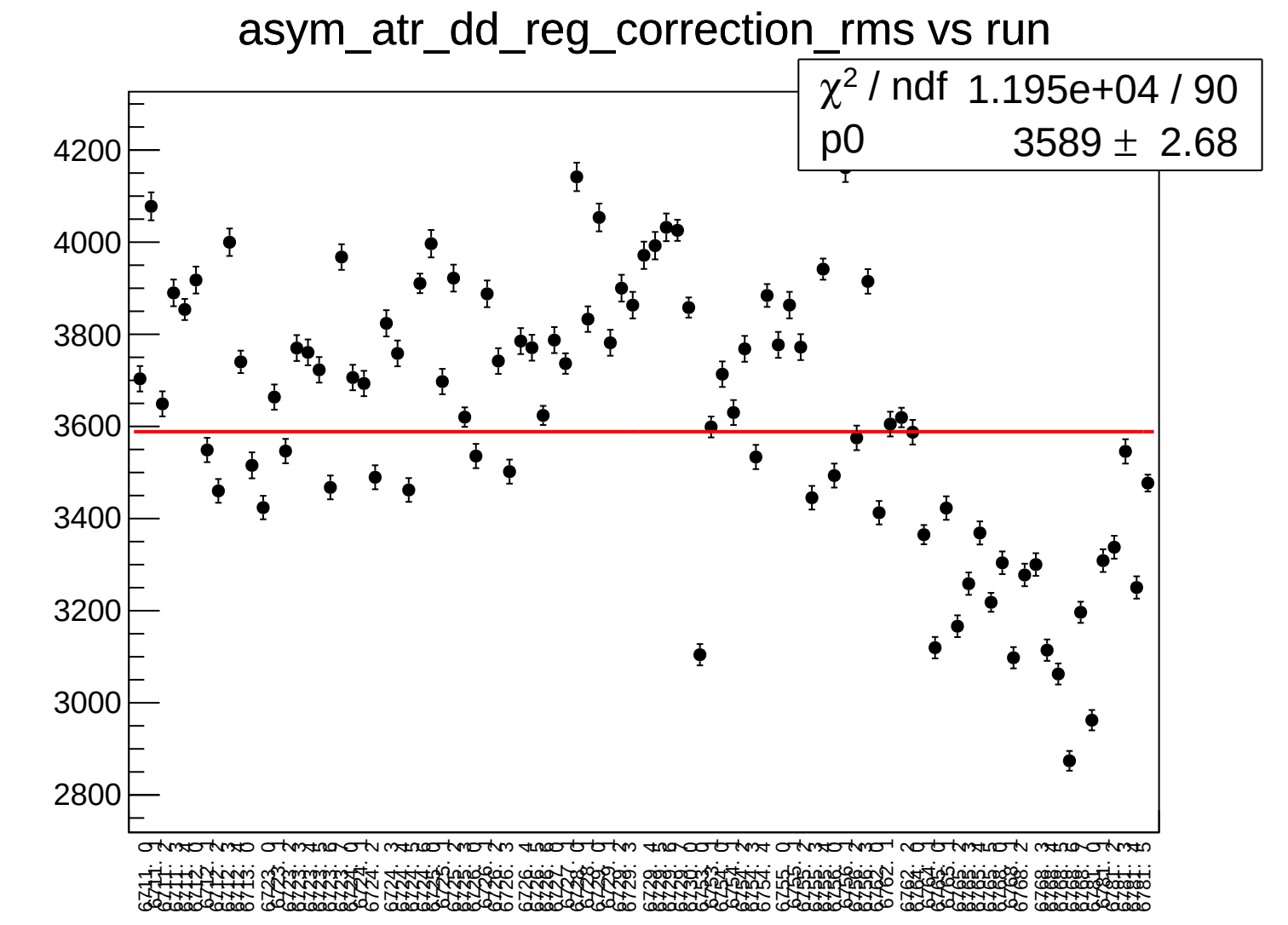

reg_asym_atr_dd_mean vs run
χ² / ndf 86.08 / 90
p0 −2406 ± 1924
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 46.68
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

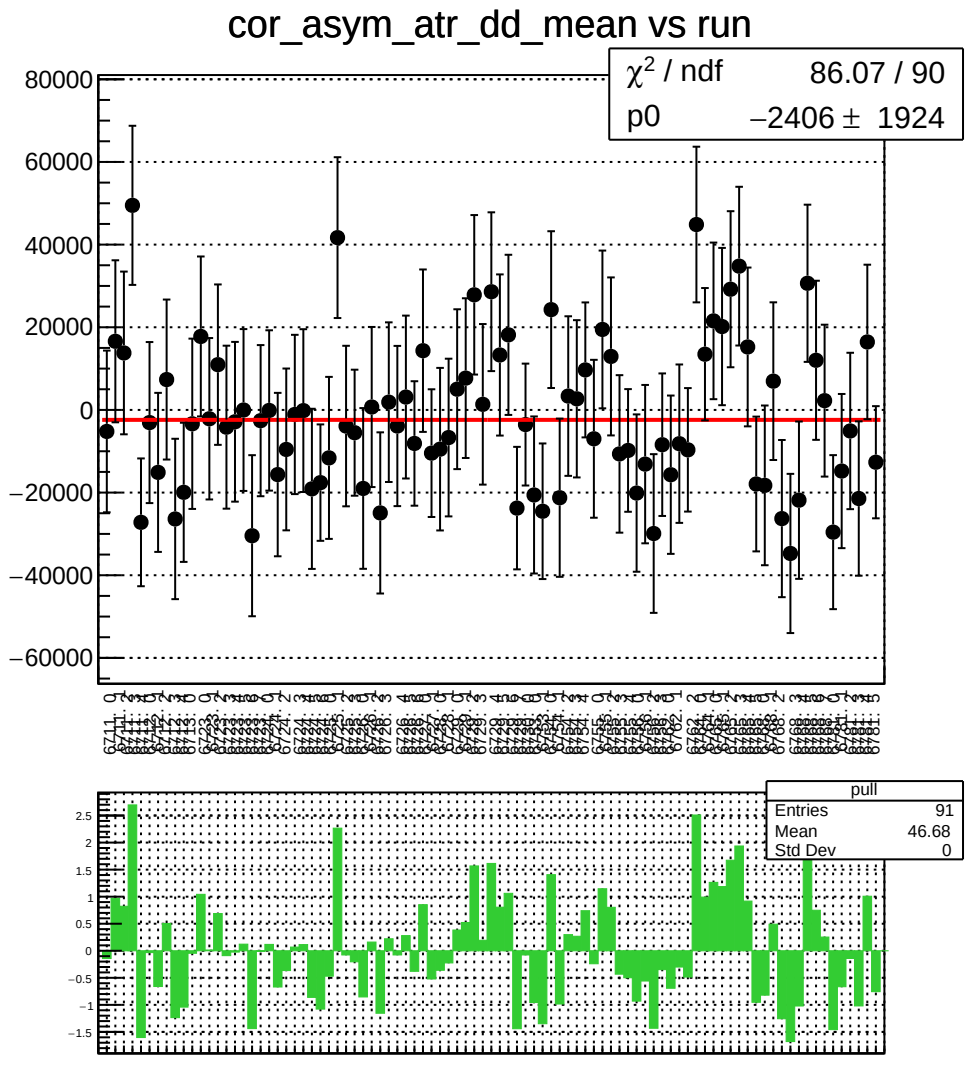

pull1D
Entries 91
Mean 0.02594
Std Dev 0.9722
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

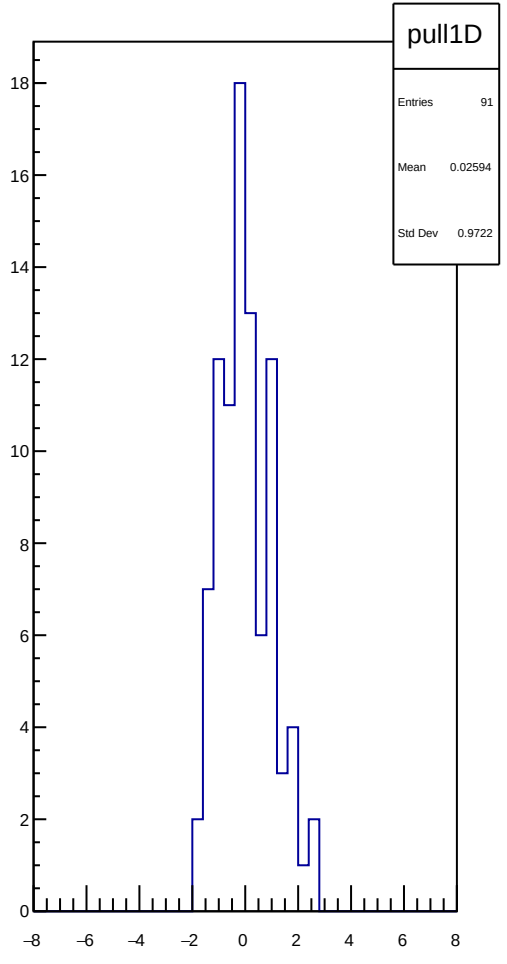

reg_asym_atr_dd_rms vs run
χ² / ndf 306 / 90
p0 1827 ± 1.361
1900
1880
1860
1840
1820
1800
1780
1760

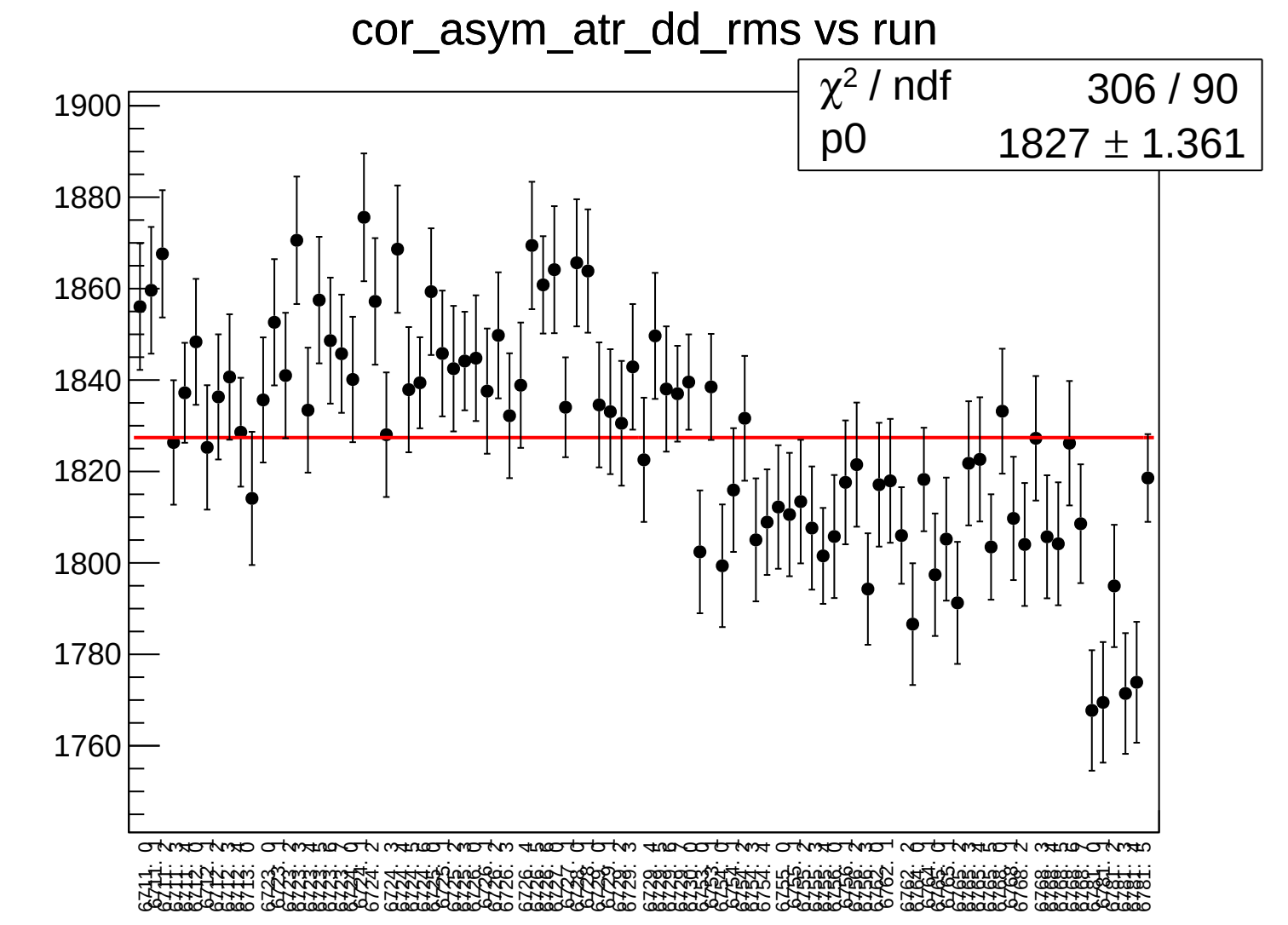

asym_atr_dd_reg_correction_mean vs run
χ² / ndf 81.25 / 90
p0 1311 ± 3791
×10³
150
100
50
0
−50
−100
pull
Entries 91
Mean −63.83
Std Dev 0
2
1
0
−1
−2

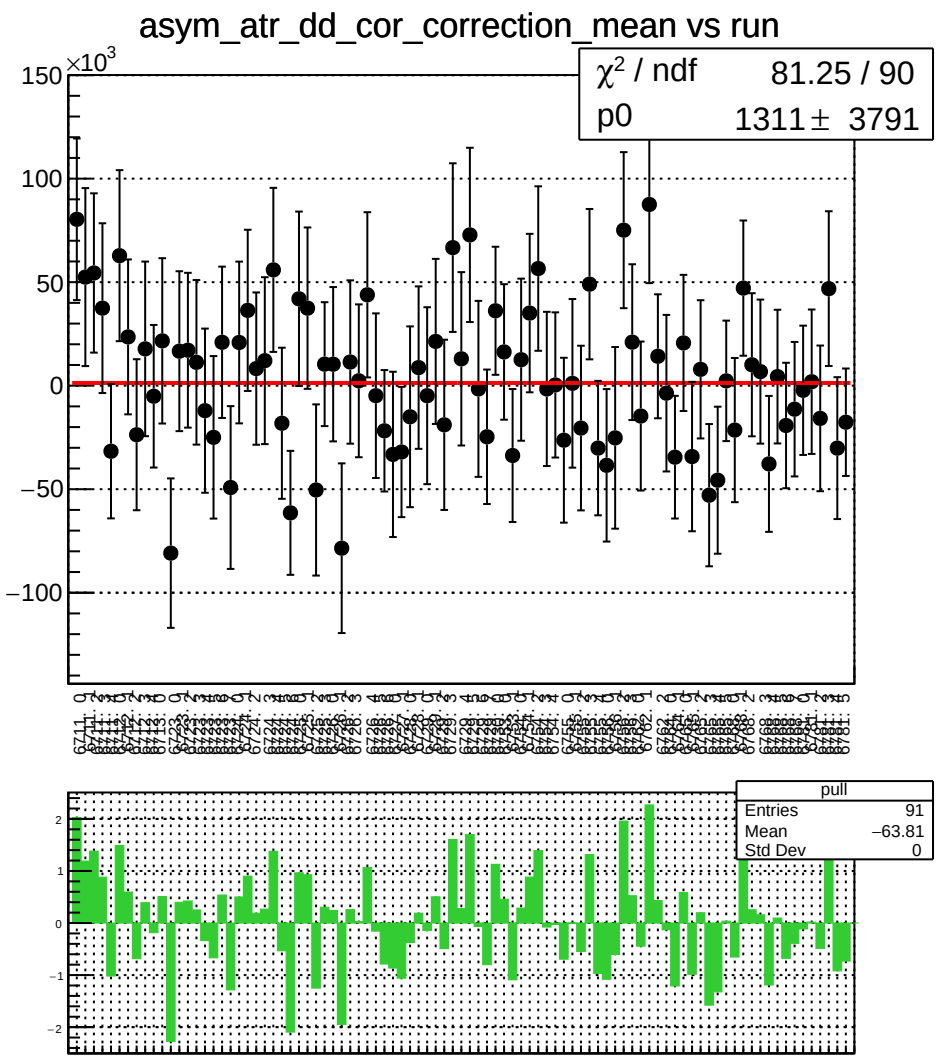

pull1D
Entries 91
Mean 0.03335
Std Dev 0.9443
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

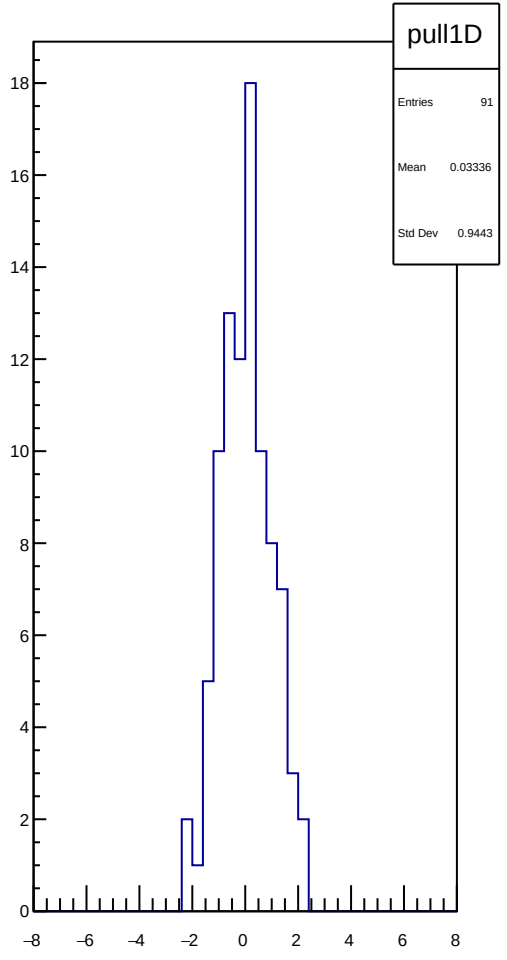

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 1.195e+04 / 90
p0 3589 ± 2.68
4200
4000
3800
3600
3400
3200
3000
2800

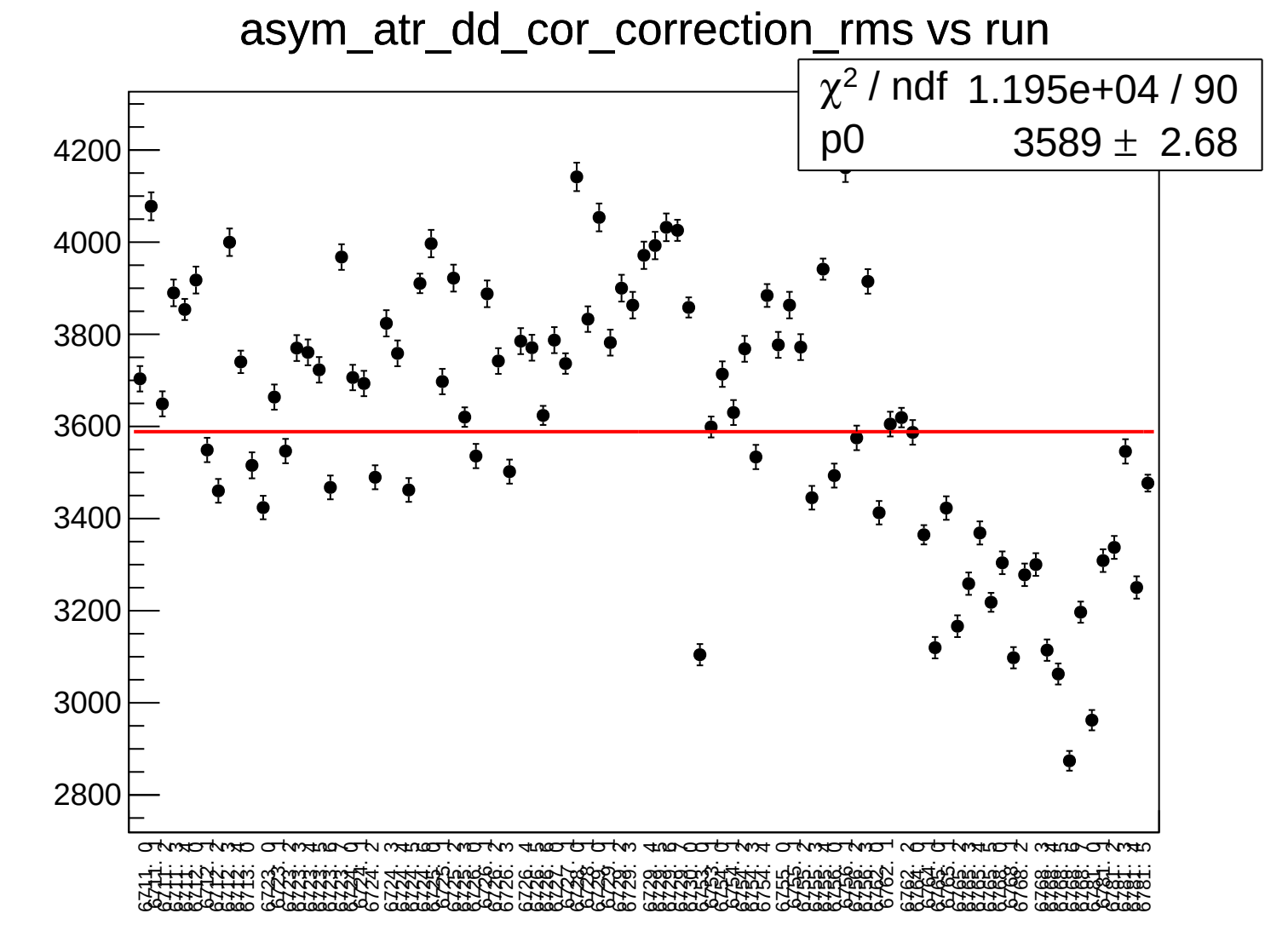

cor_asym_atr_dd_mean vs run
χ² / ndf 86.07 / 90
p0 −2406 ± 1924
pull
Entries 91
Mean 46.68
Std Dev 0

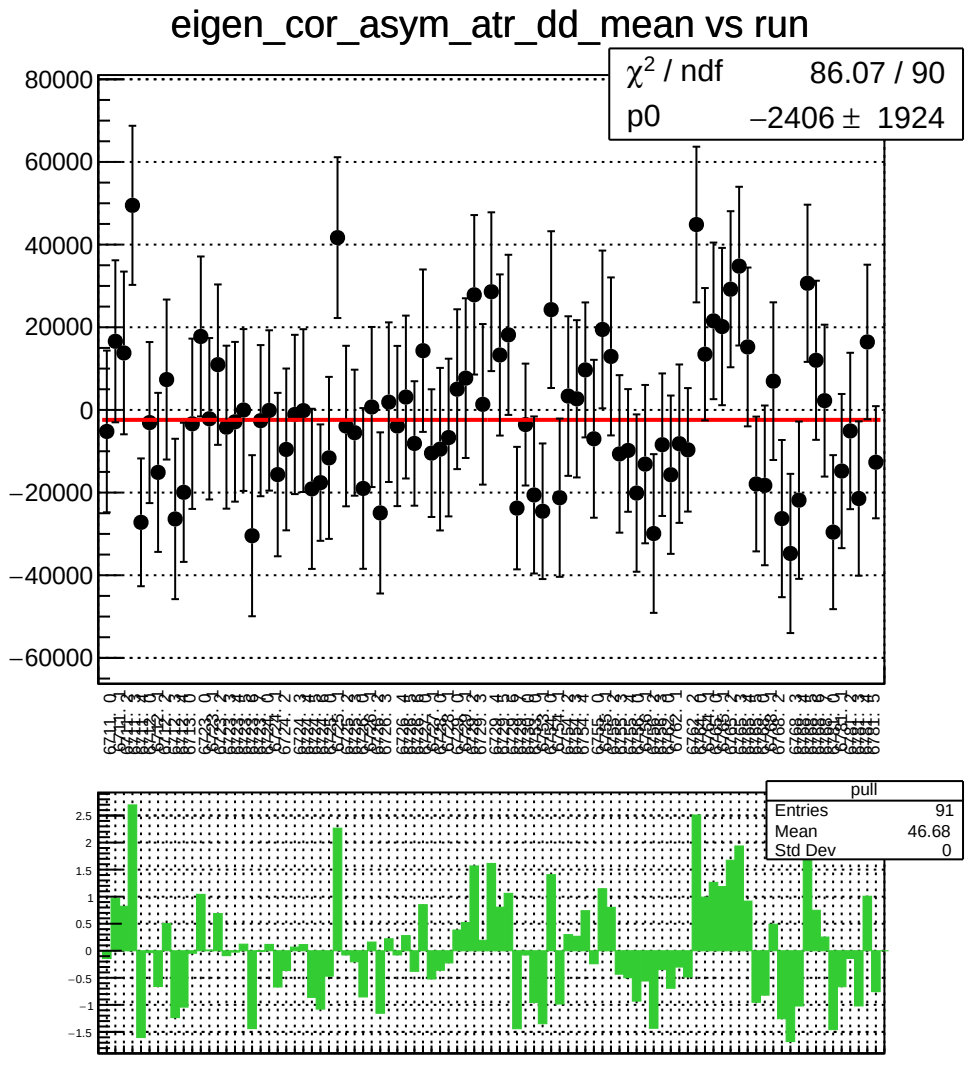

pull1D
Entries 91
Mean 0.02594
Std Dev 0.9722

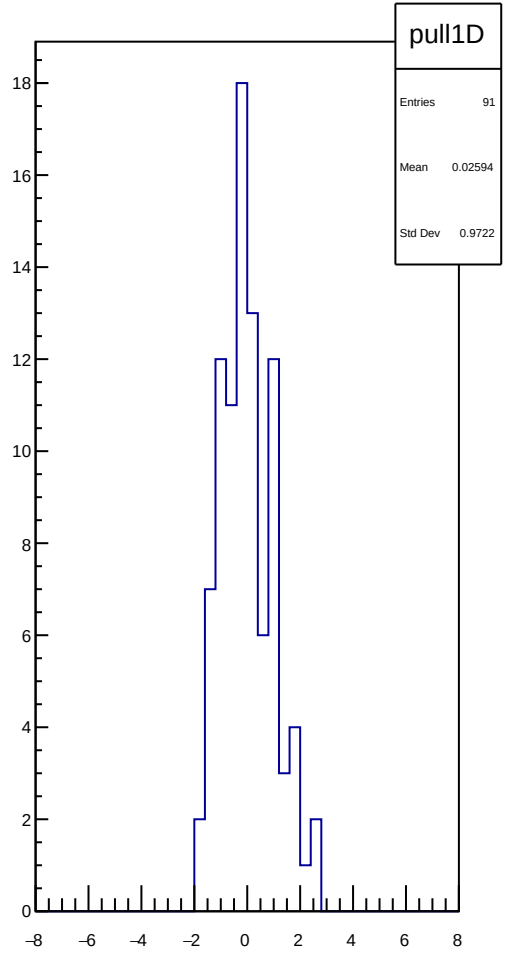

cor_asym_atr_dd_rms vs run
χ^2 / ndf 306 / 90
p0 1827 ± 1.361
1900
1880
1860
1840
1820
1800
1780
1760

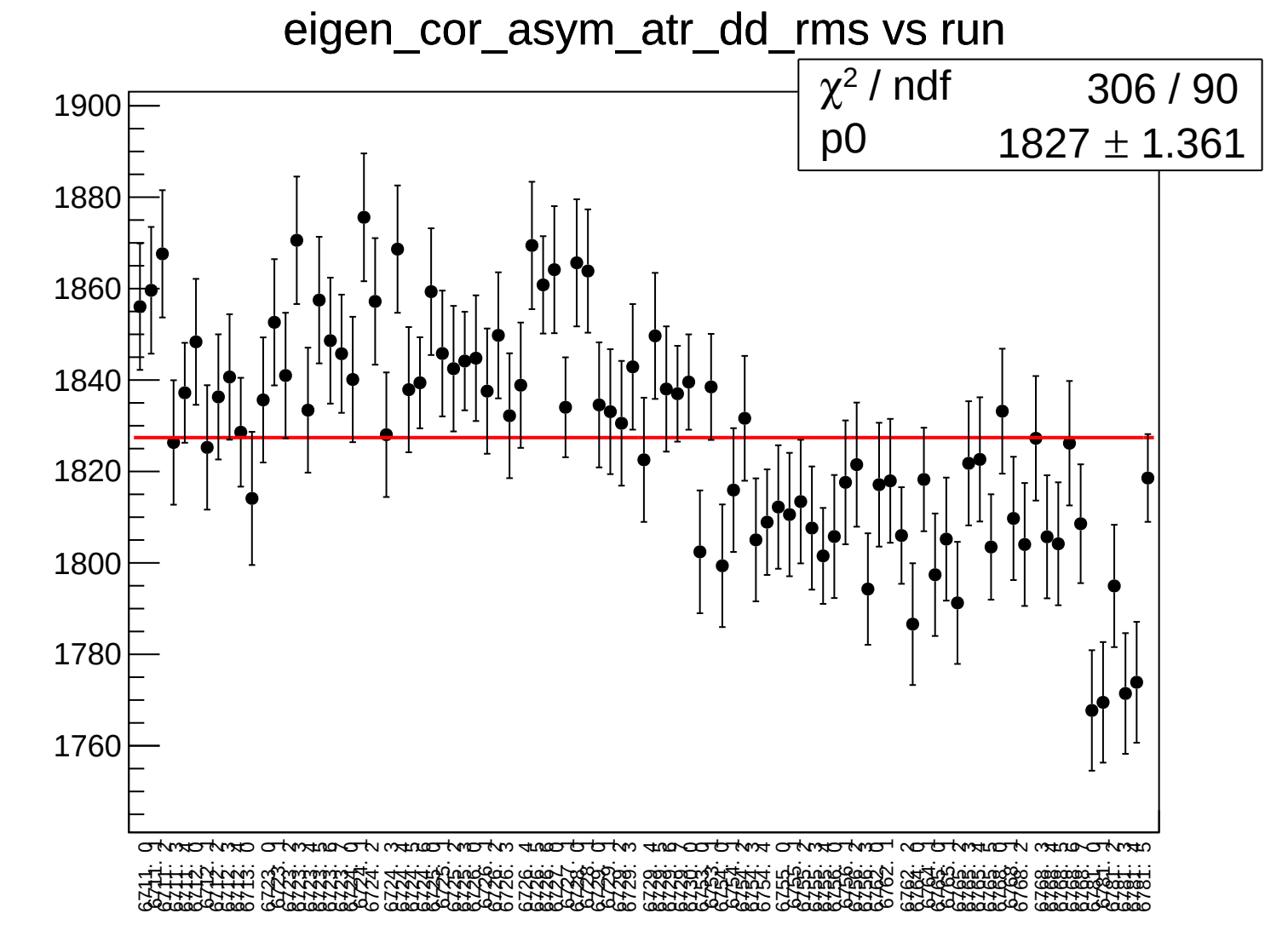

asym_atr_dd_cor_correction_mean vs run
χ² / ndf 81.25 / 90
p0 1311 ± 3791
×10³
150
100
50
0
−50
−100
pull
Entries 91
Mean −63.81
Std Dev 0
2
1
0
−1
−2

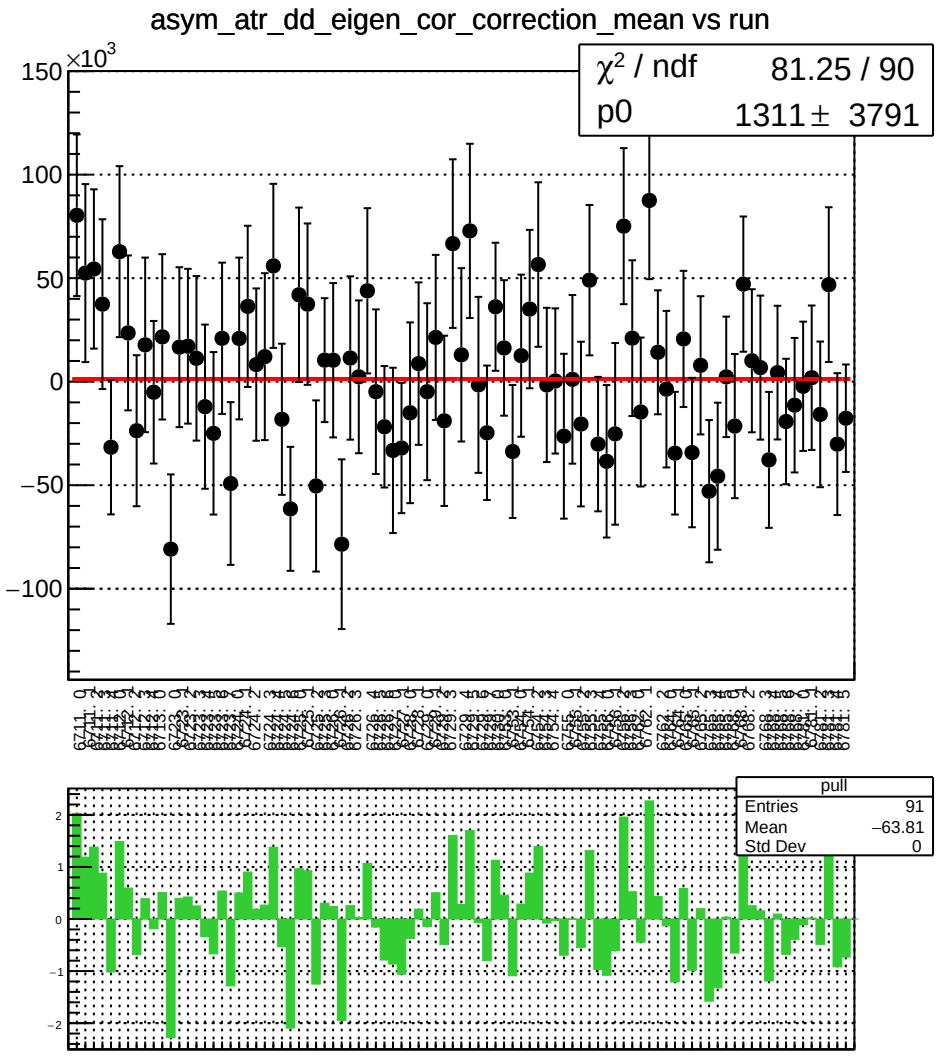

pull1D
Entries 91
Mean 0.03336
Std Dev 0.9443
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

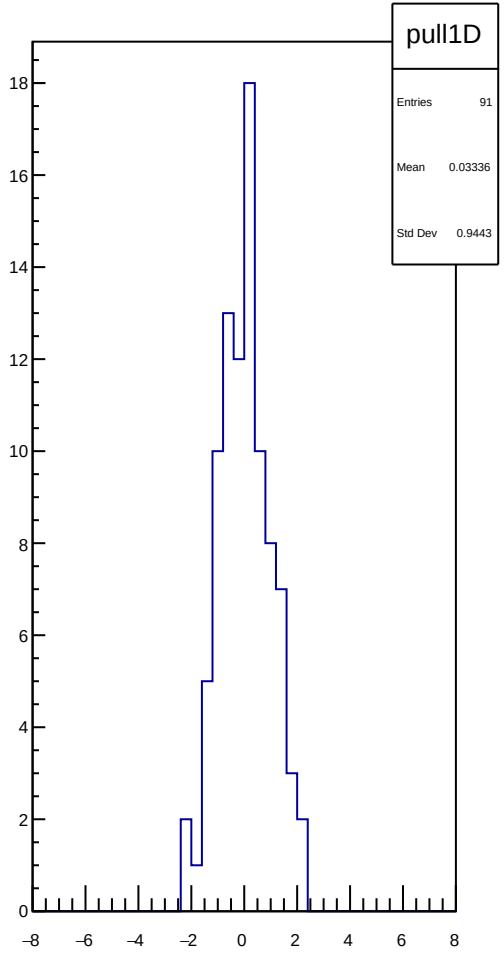

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 1.195e+04 / 90
p0 3589 ± 2.68
4200
4000
3800
3600
3400
3200
3000
2800

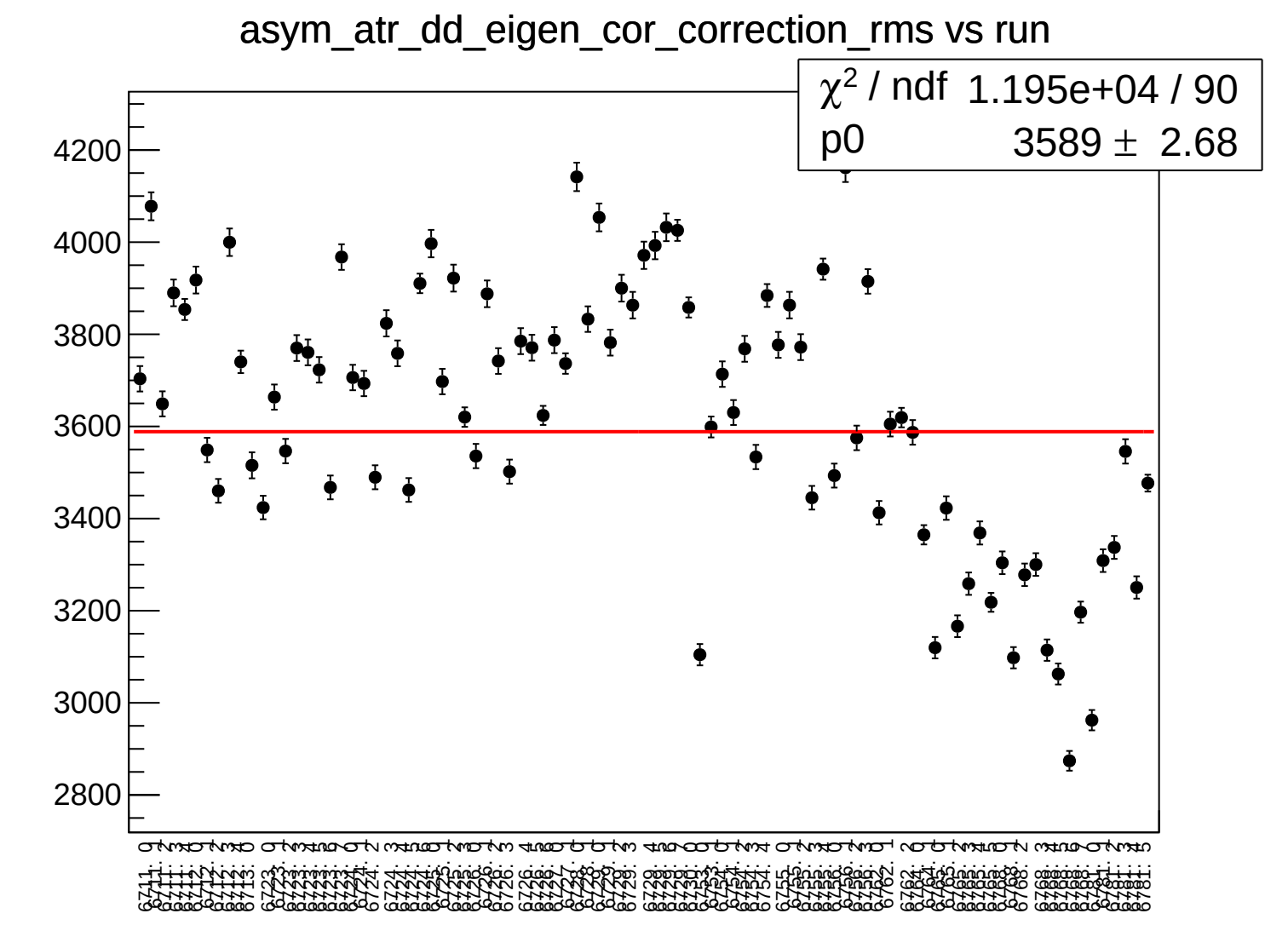

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 86.07 / 90
p0 −2406 ± 1924
pull
Entries 91
Mean 46.68
Std Dev 0

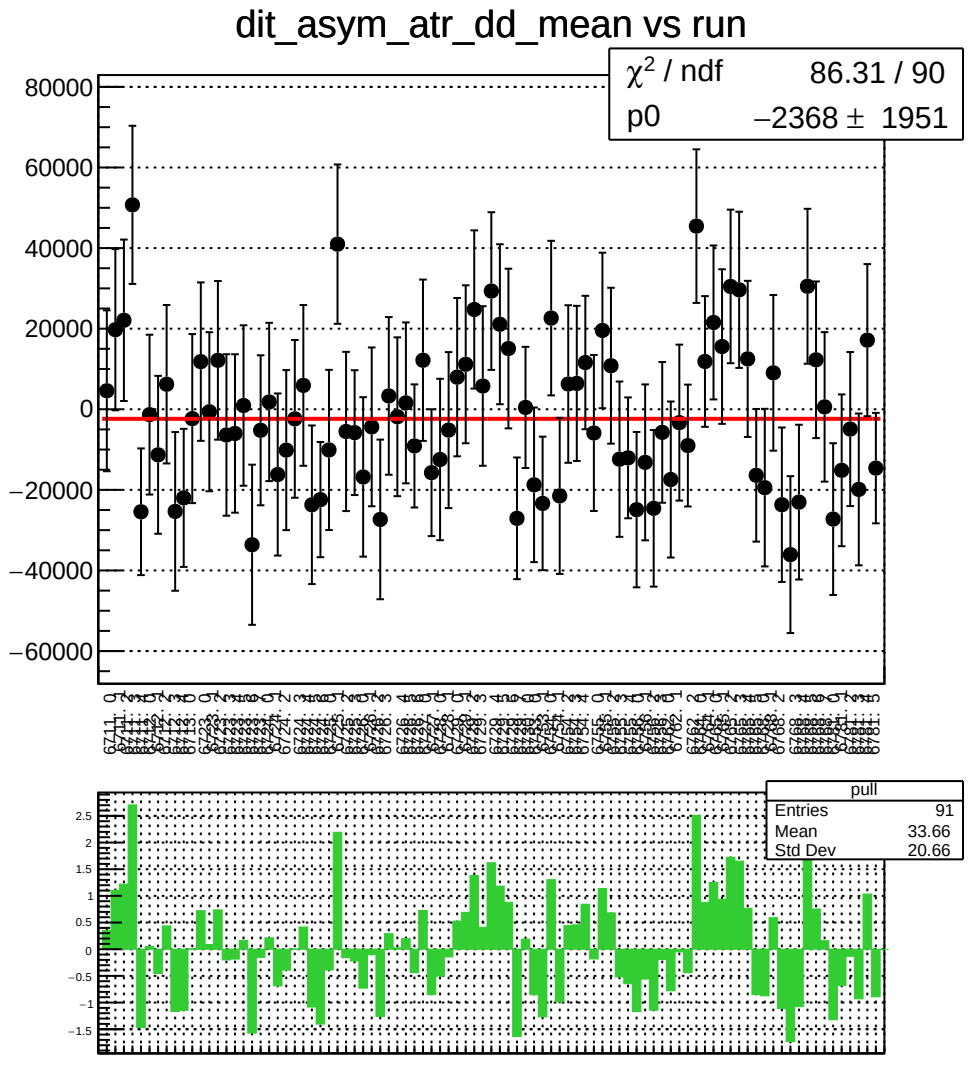

pull1D
Entries 91
Mean 0.02594
Std Dev 0.9722

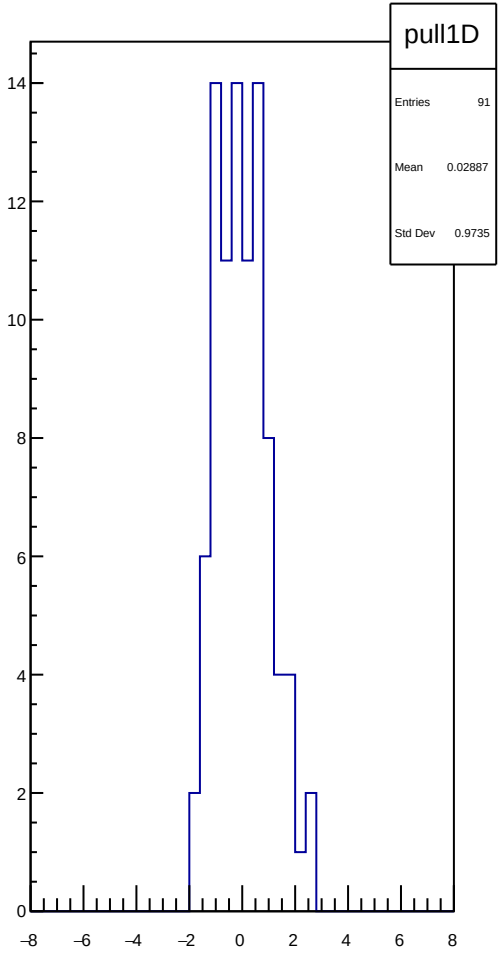

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 306 / 90
p0 1827 ± 1.361
1900
1880
1860
1840
1820
1800
1780
1760

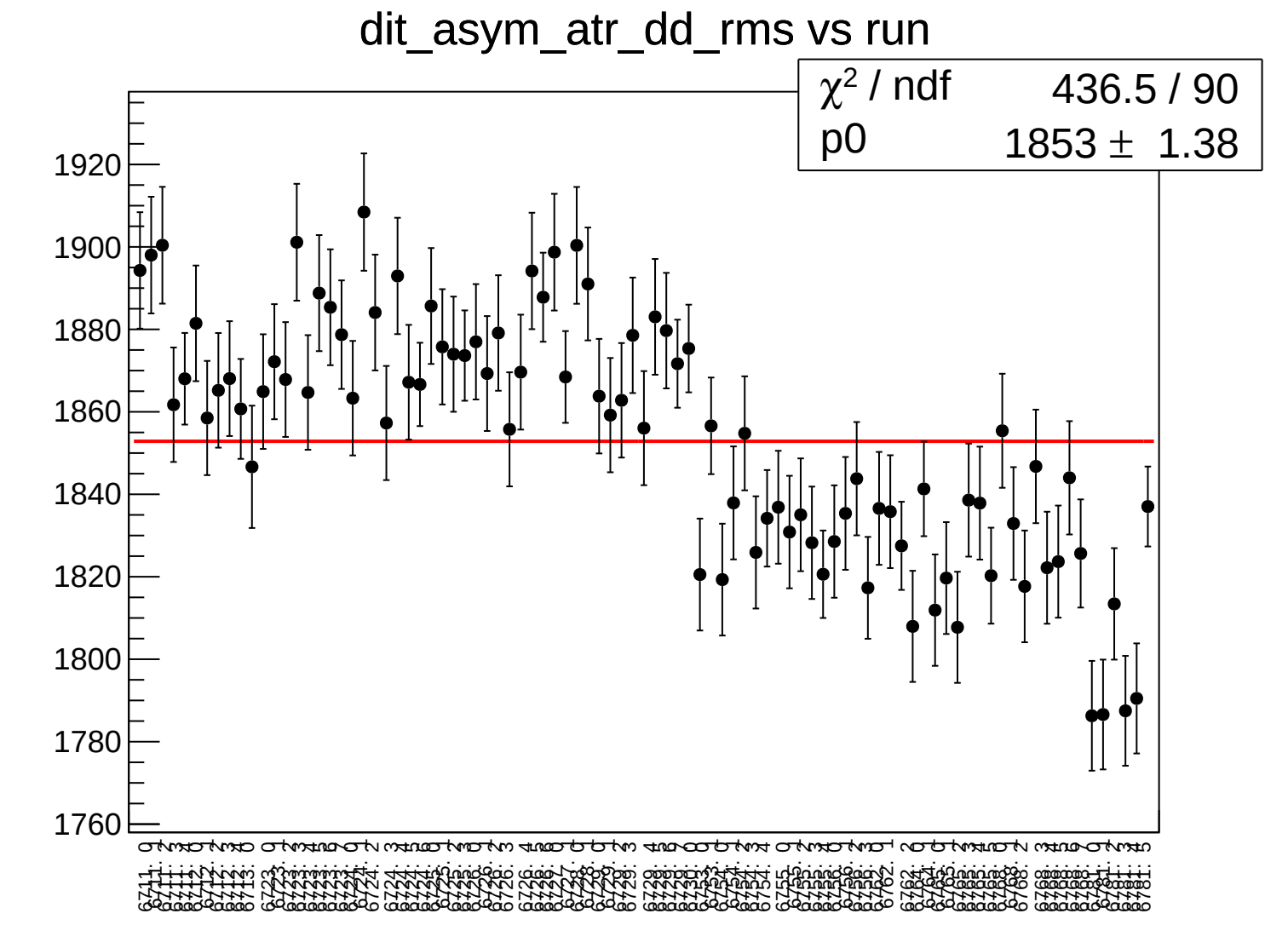

asym_atr_dd_eigen_cor_correction_mean vs run
χ² / ndf 81.25 / 90
p0 1311 ± 3791
×10³
150
100
50
0
−50
−100
pull
Entries 91
Mean −63.81
Std Dev 0
2
1
0
−1
−2

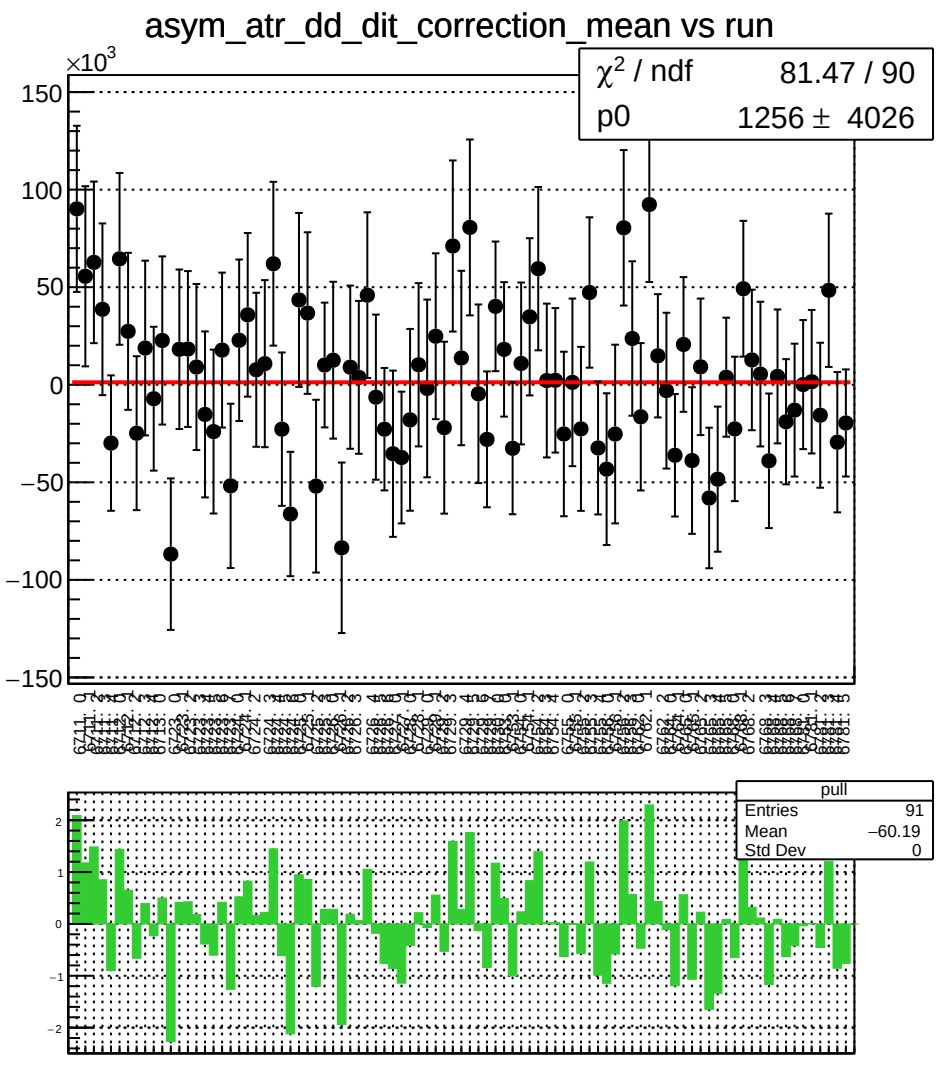

pull1D
Entries 91
Mean 0.03336
Std Dev 0.9443
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

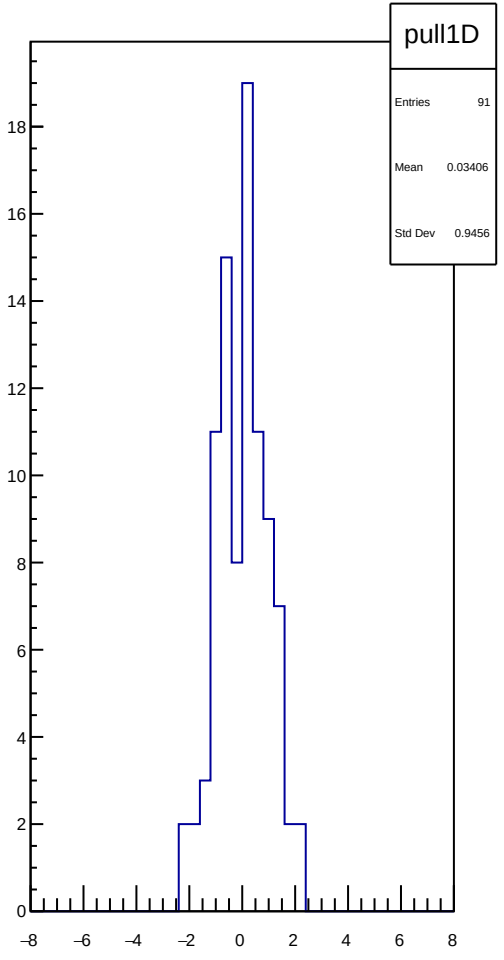

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.195e+04 / 90
p0 3589 ± 2.68
4200
4000
3800
3600
3400
3200
3000
2800

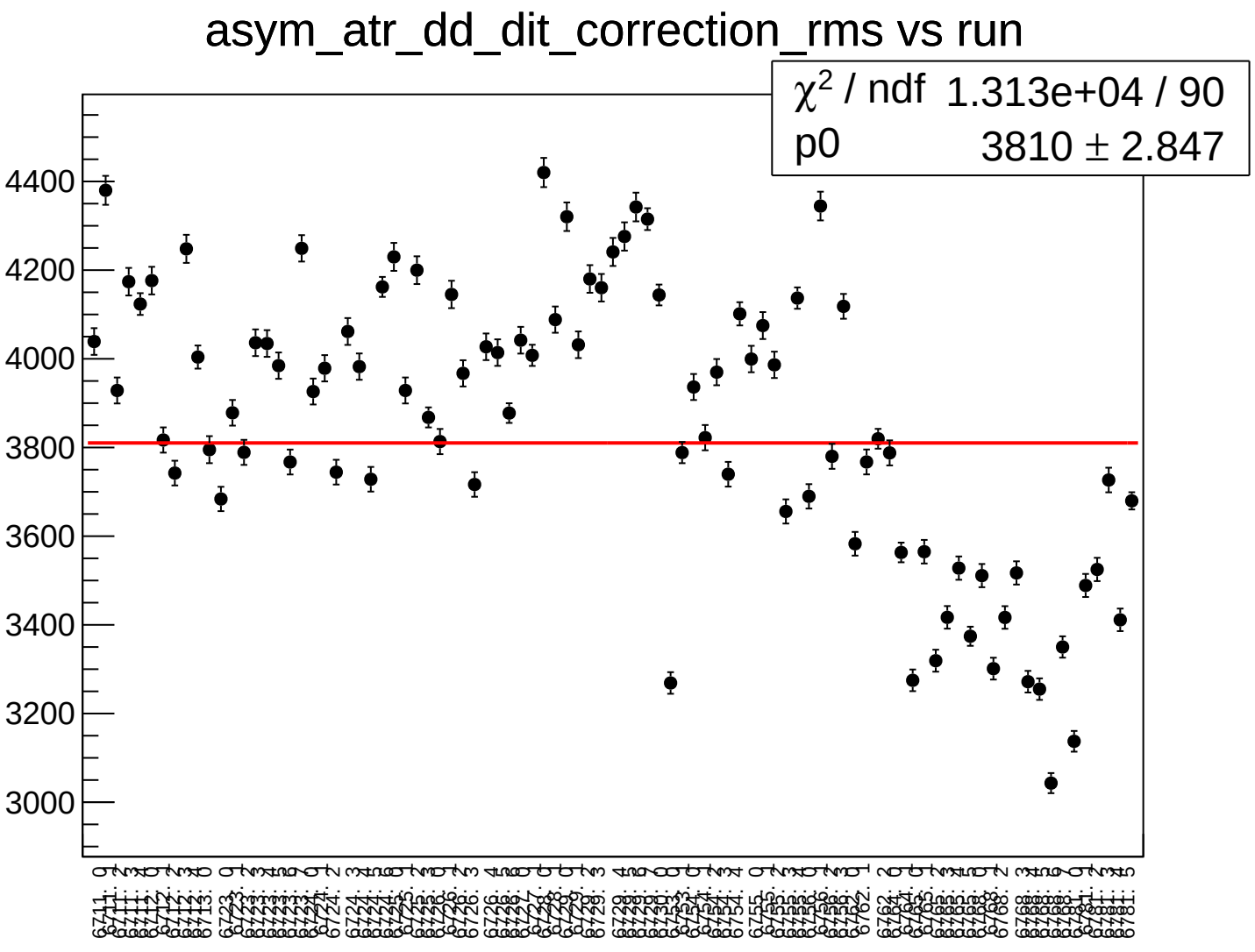

dit_asym_atr_dd_mean vs run
χ² / ndf 86.31 / 90
p0 −2368 ± 1951
pull
Entries 91
Mean 33.66
Std Dev 20.66

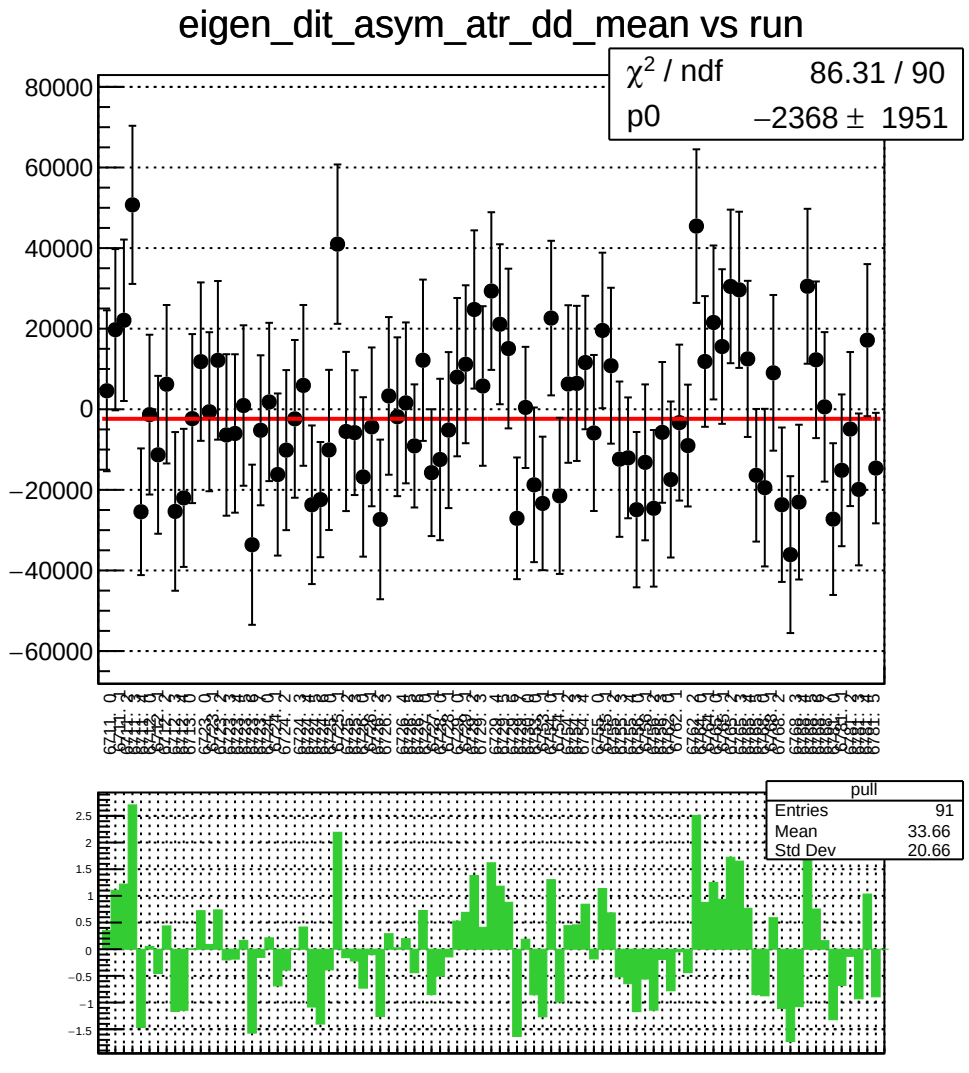

pull1D
Entries 91
Mean 0.02887
Std Dev 0.9735

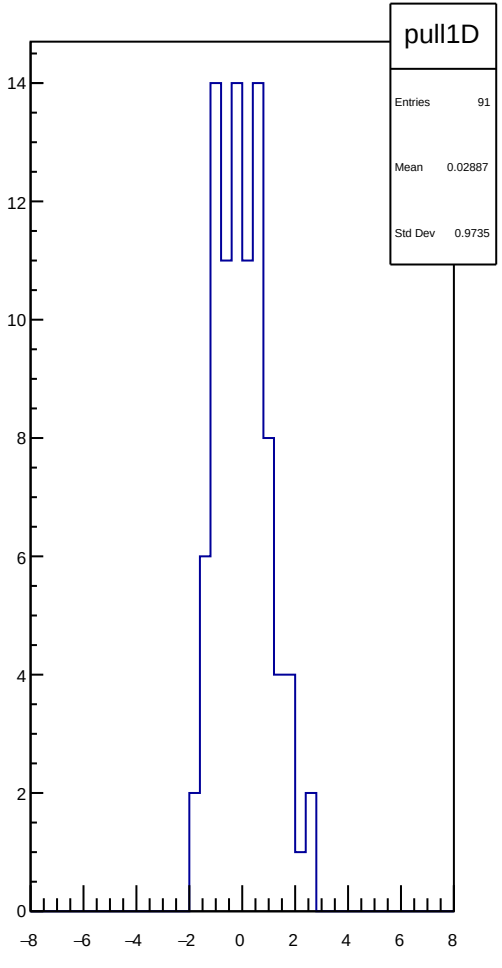

dit_asym_atr_dd_rms vs run
χ² / ndf 436.5 / 90
p0 1853 ± 1.38
1920
1900
1880
1860
1840
1820
1800
1780
1760

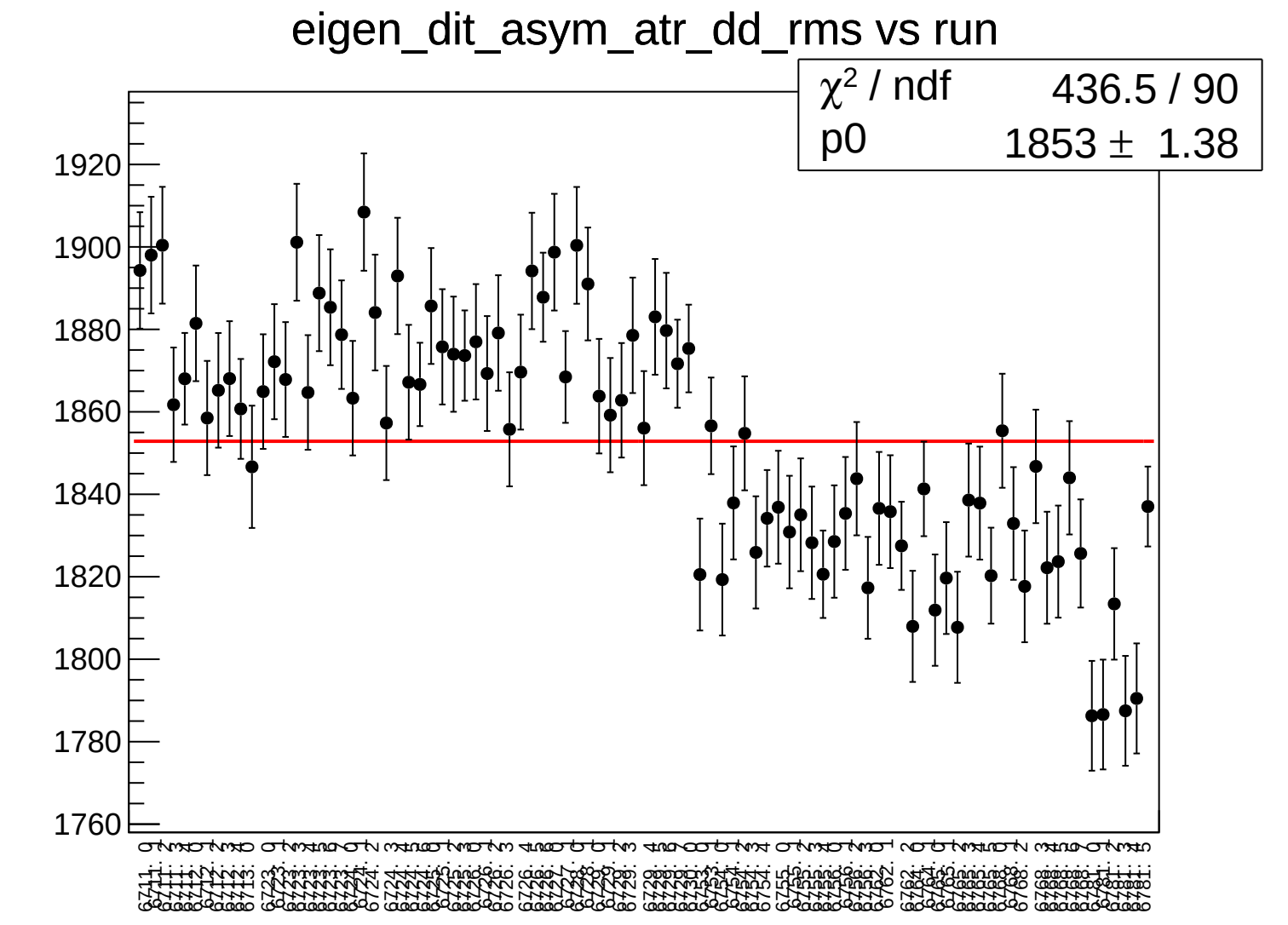

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 81.47 / 90
p0 1256 ± 4026
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −60.19
Std Dev 0
2
1
0
−1
−2

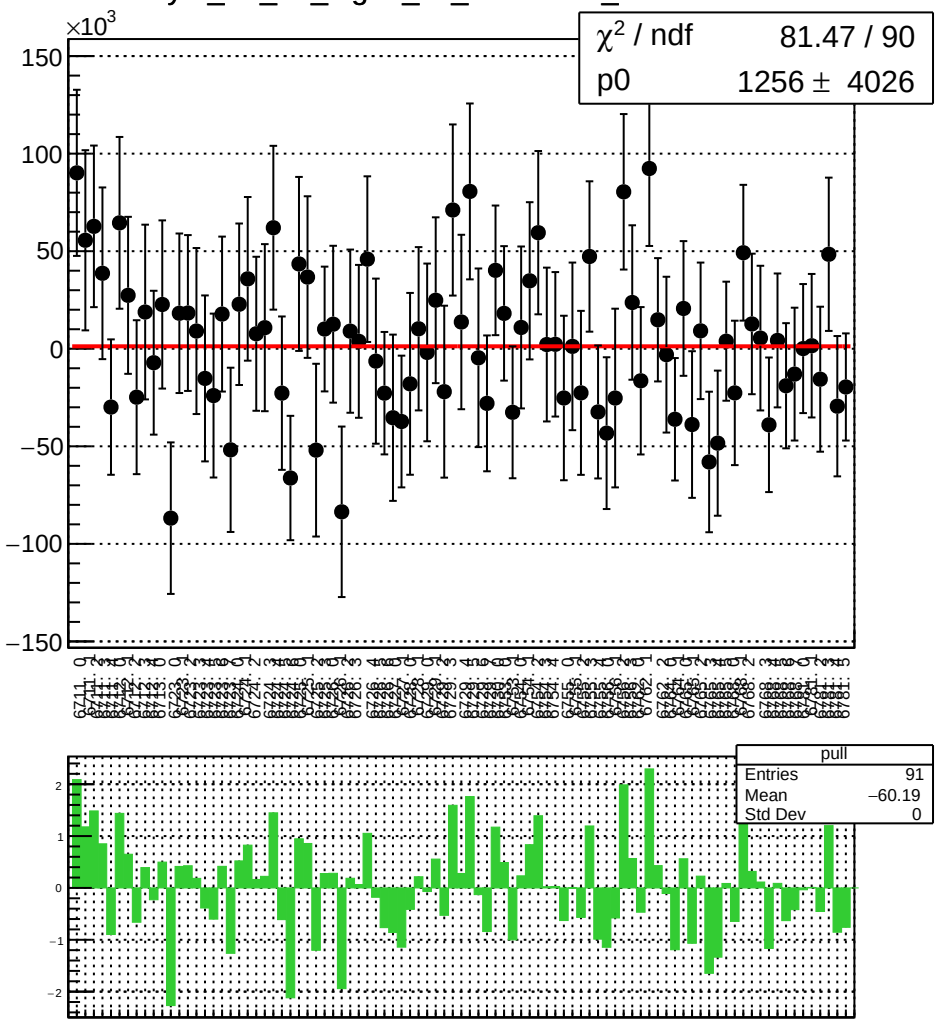

pull1D
Entries 91
Mean 0.03406
Std Dev 0.9456
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

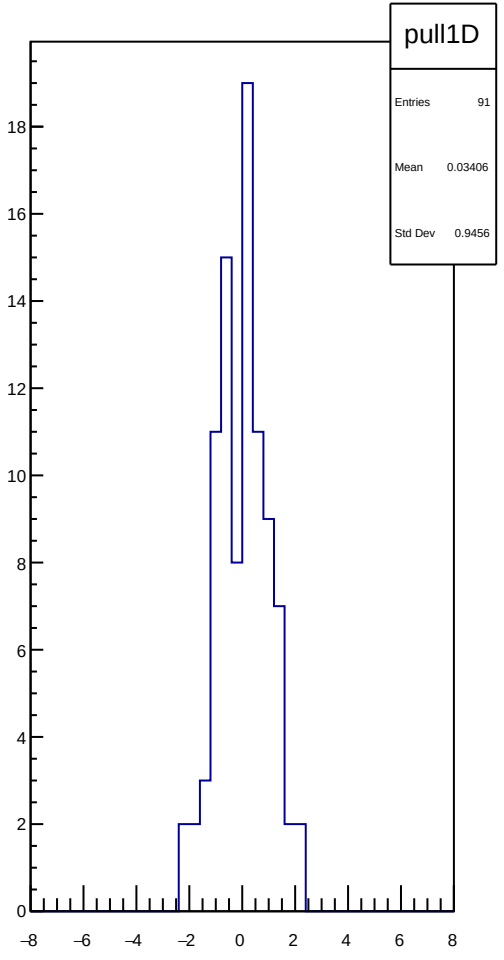

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 1.313e+04 / 90
p0 3810 ± 2.847
4400
4200
4000
3800
3600
3400
3200
3000

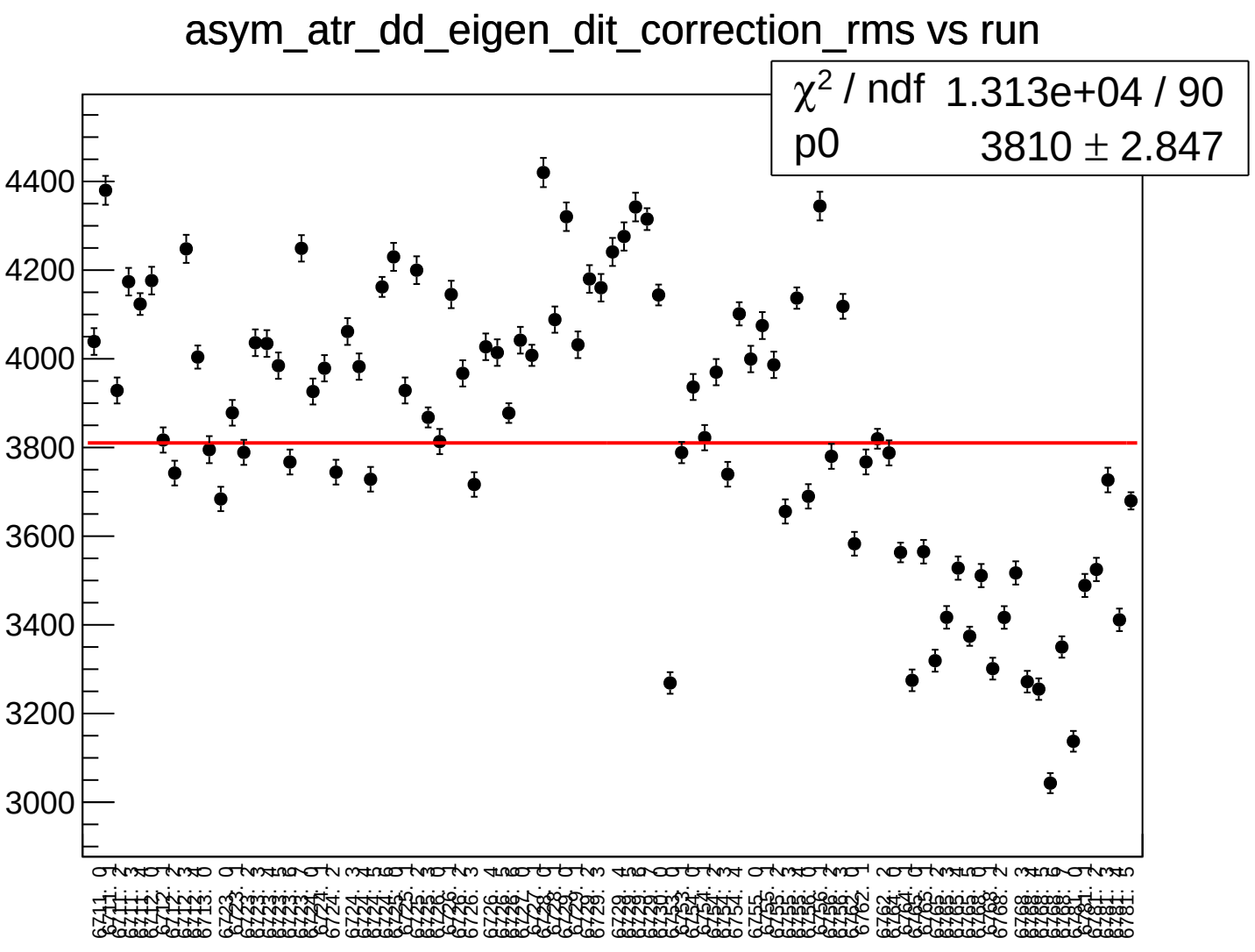

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 86.31 / 90
p0 −2368 ± 1951
pull
Entries 91
Mean 33.66
Std Dev 20.66

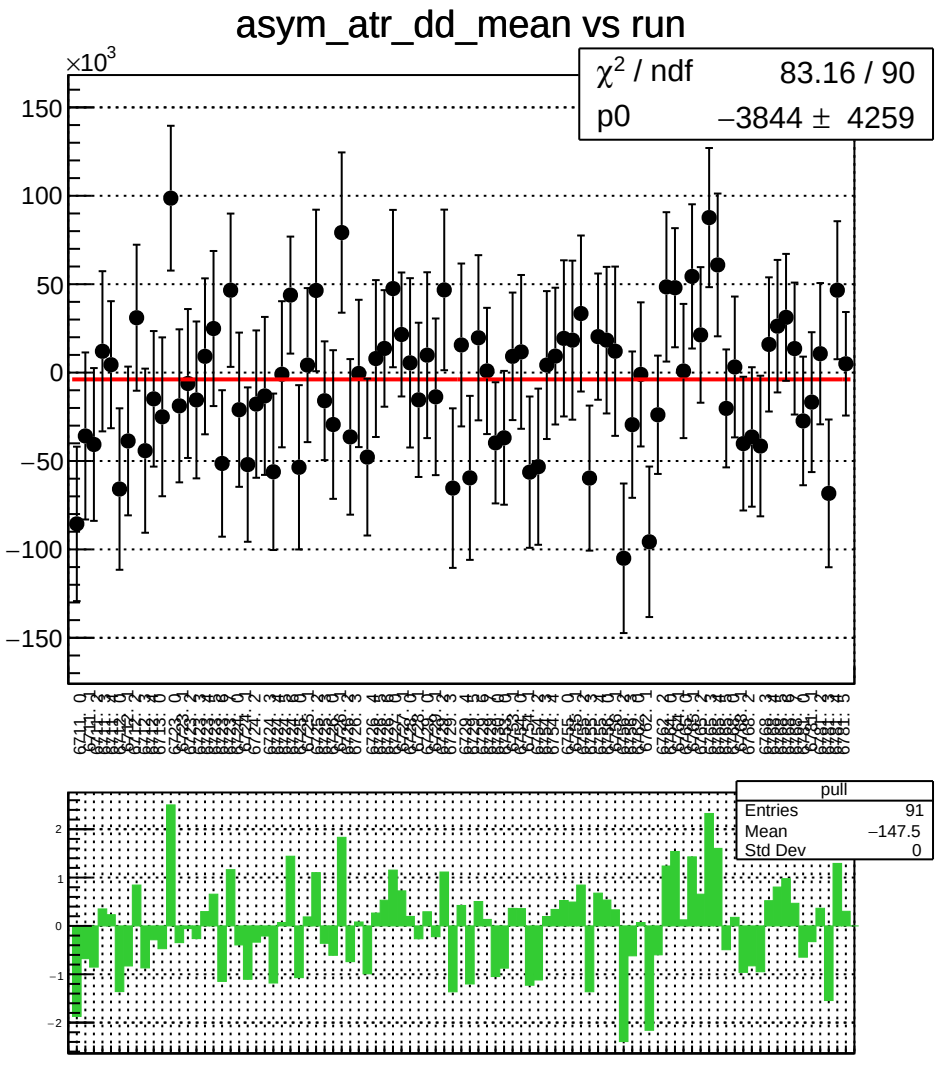

pull1D
Entries 91
Mean 0.02887
Std Dev 0.9735

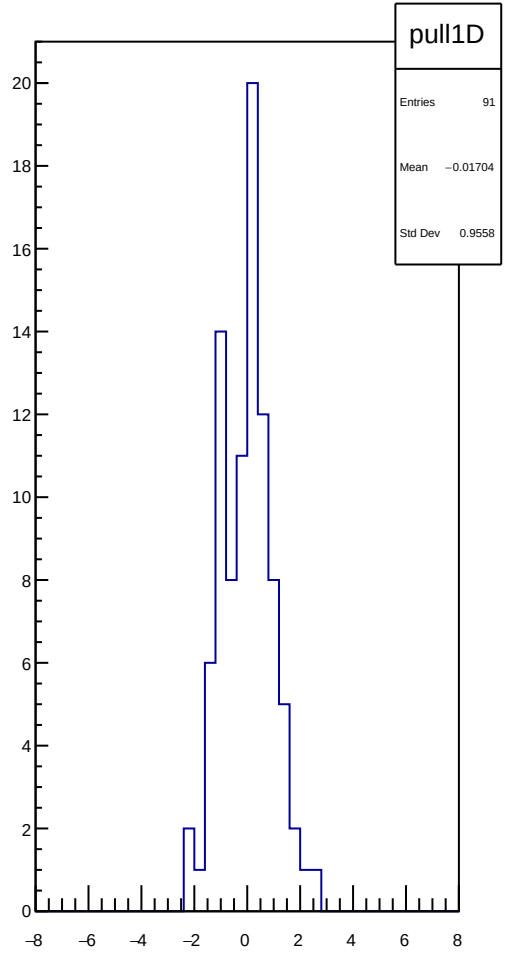

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 436.5 / 90
p0 1853 ± 1.38
1920
1900
1880
1860
1840
1820
1800
1780
1760

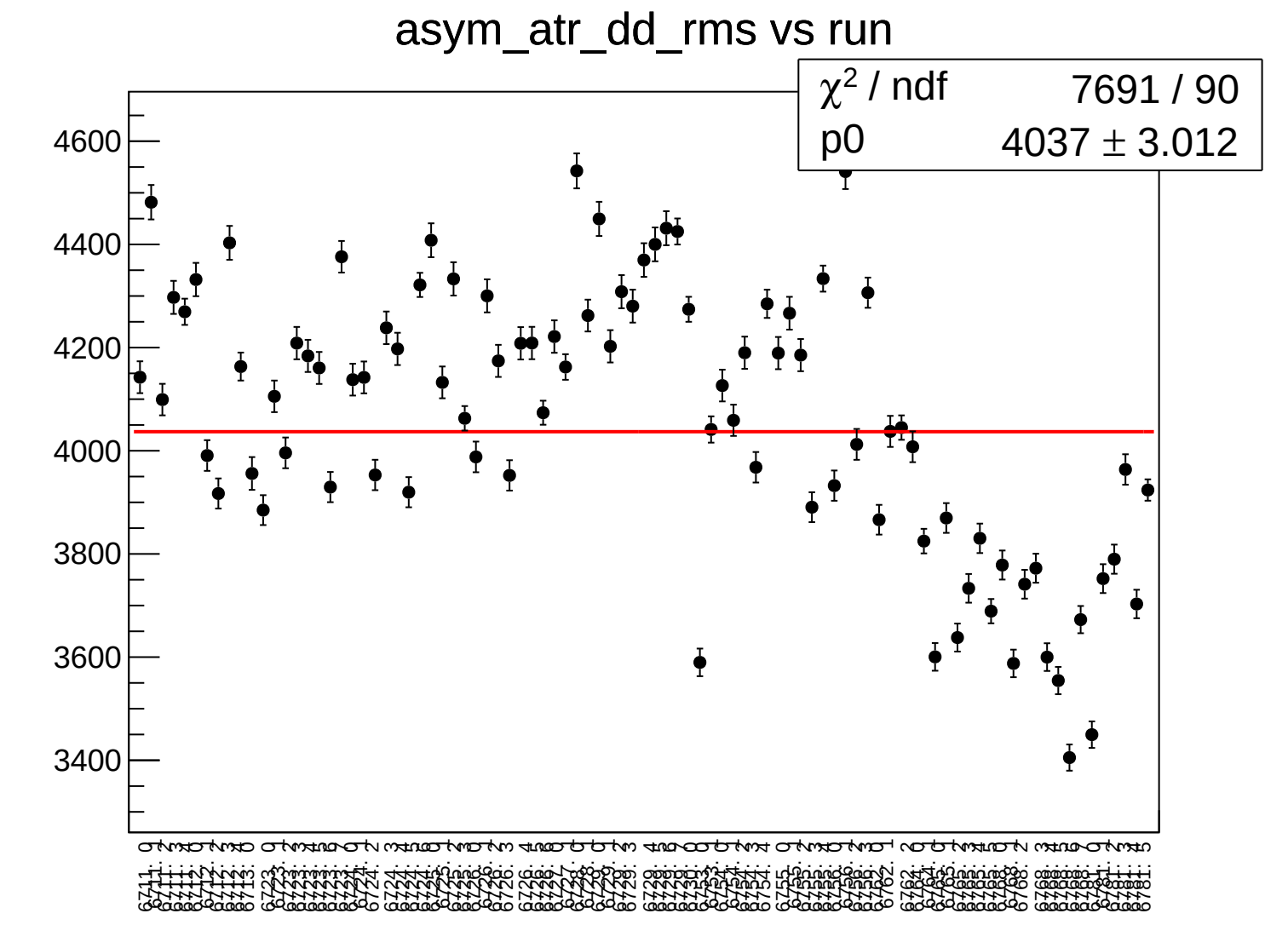

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 81.47 / 90
p0 1256 ± 4026
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −60.19
Std Dev 0
2
1
0
−1
−2

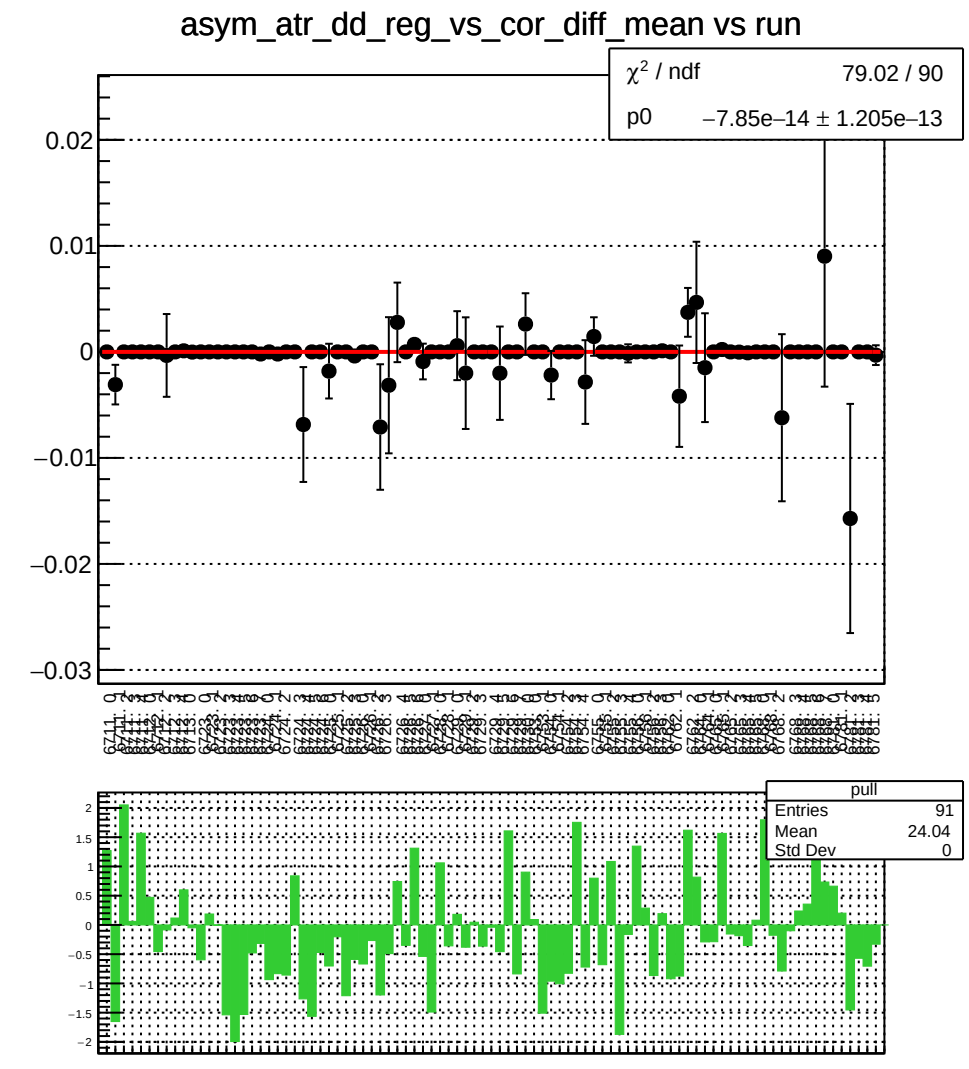

pull1D
Entries 91
Mean 0.03406
Std Dev 0.9456
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

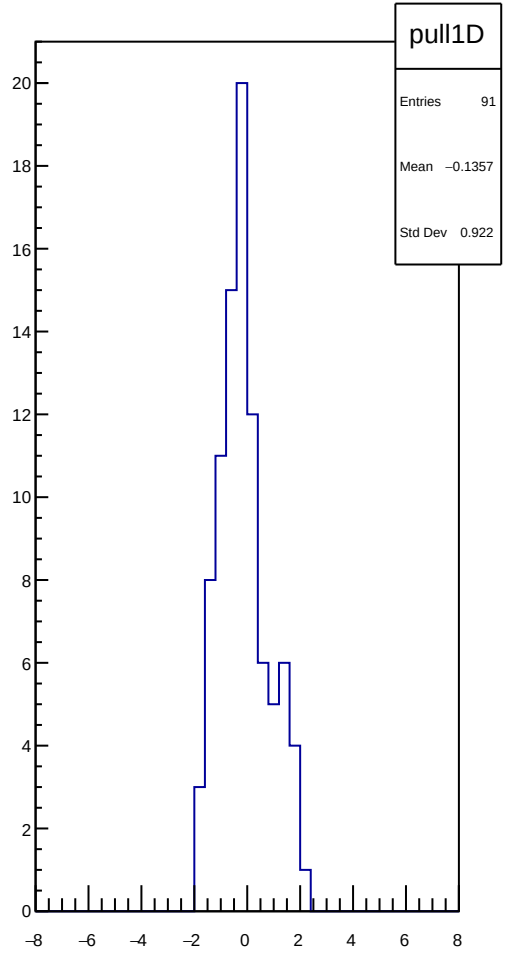

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.313e+04 / 90
p0 3810 ± 2.847
4400
4200
4000
3800
3600
3400
3200
3000

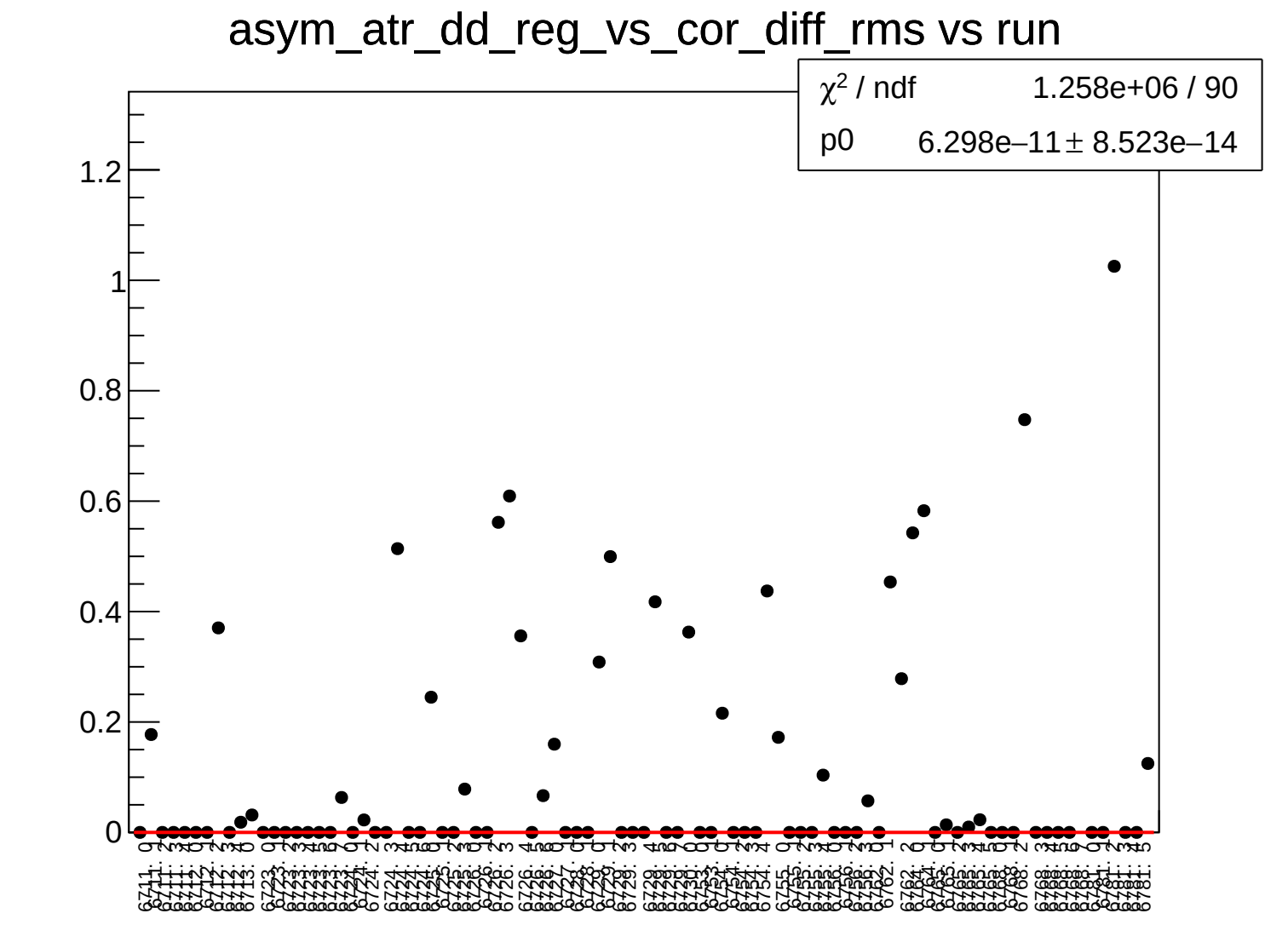

asym_atr_dd_mean vs run
×10^3
χ² / ndf 83.16 / 90
p0 −3844 ± 4259
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −147.5
Std Dev 0
2
1
0
−1
−2

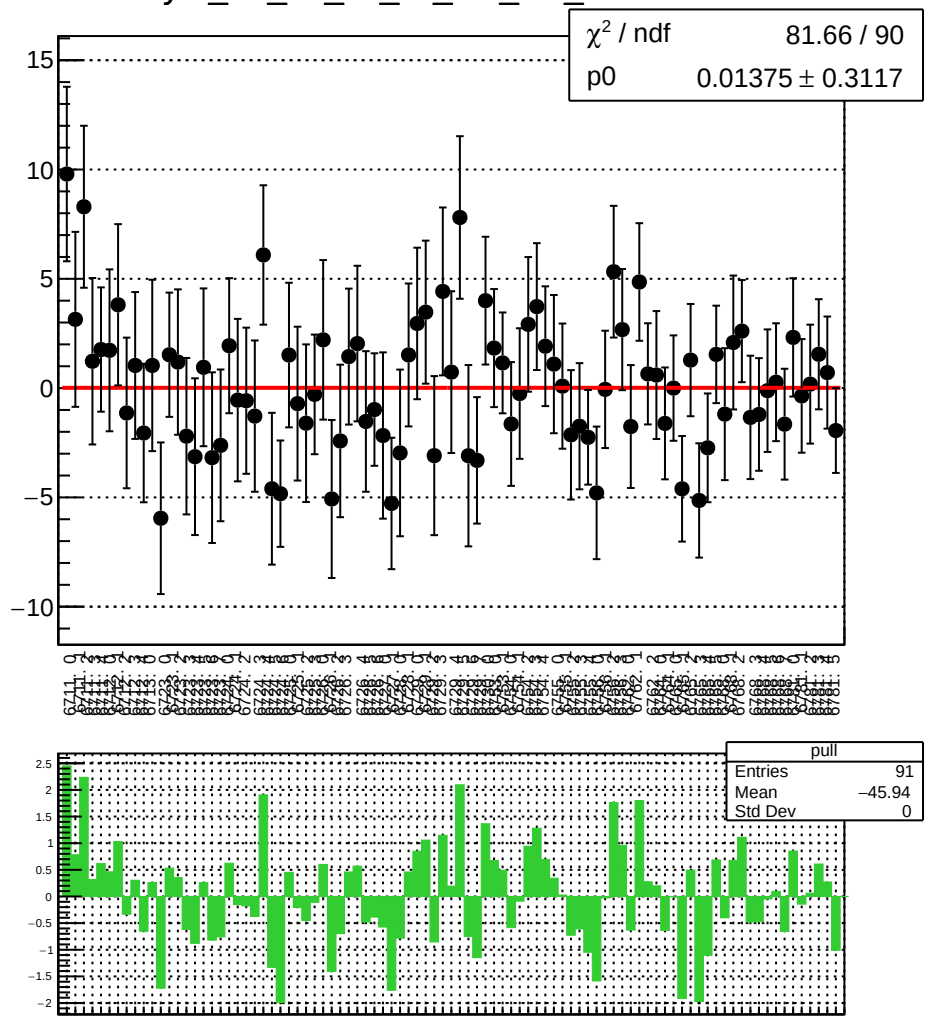

pull1D
Entries 91
Mean −0.01704
Std Dev 0.9558
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

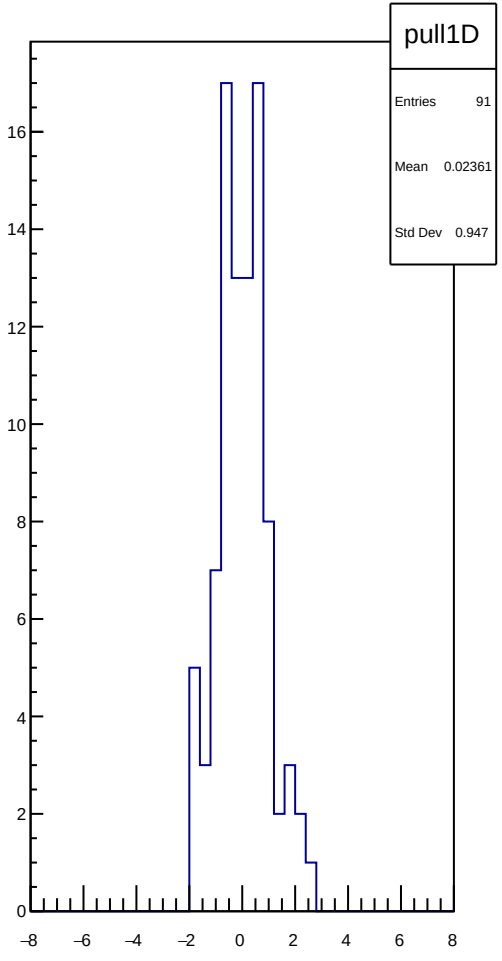

asym_atr_dd_rms vs run
χ² / ndf 7691 / 90
p0 4037 ± 3.012
4600
4400
4200
4000
3800
3600
3400

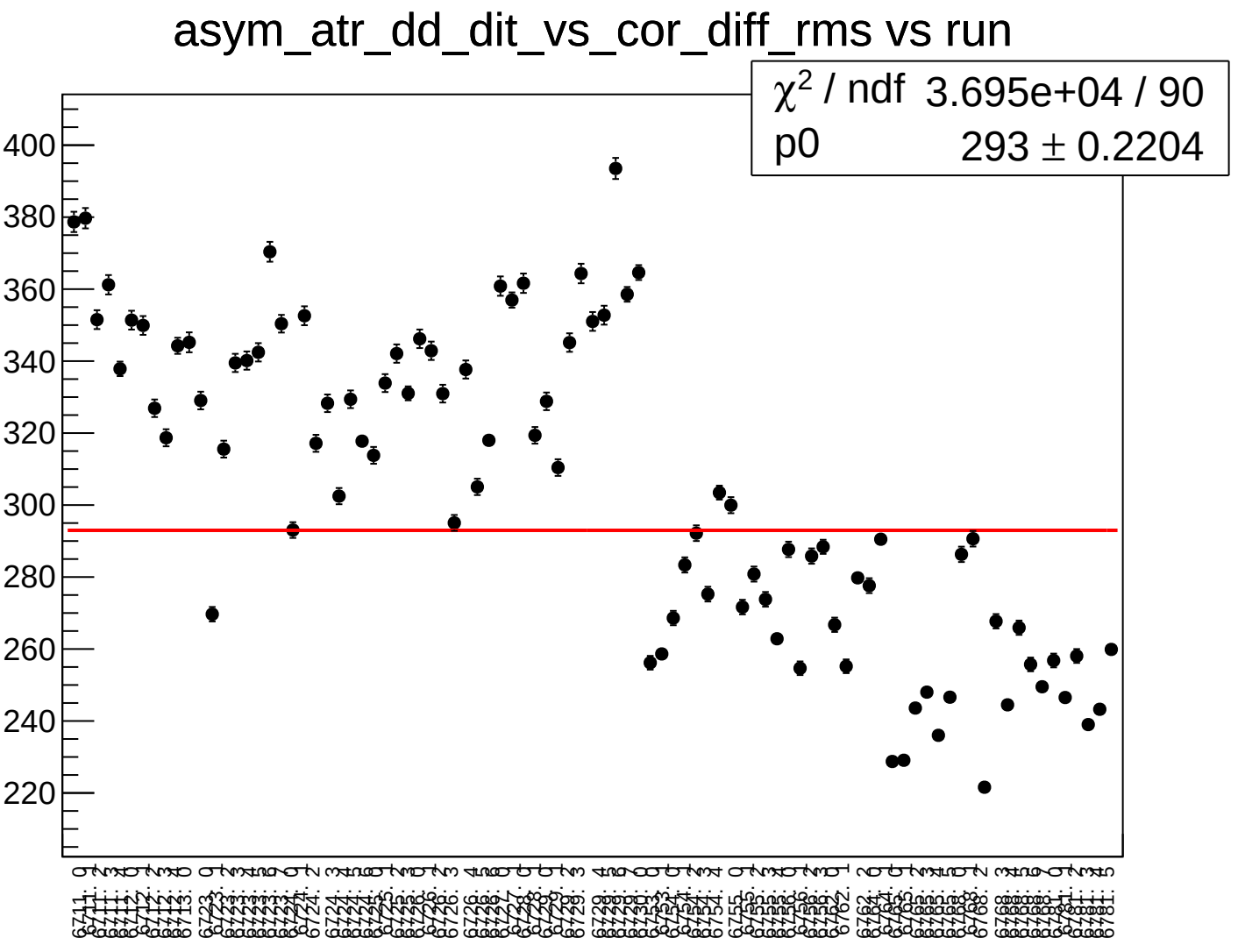

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.02 / 90
p0 −7.85e−14 ± 1.205e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 91
Mean 24.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

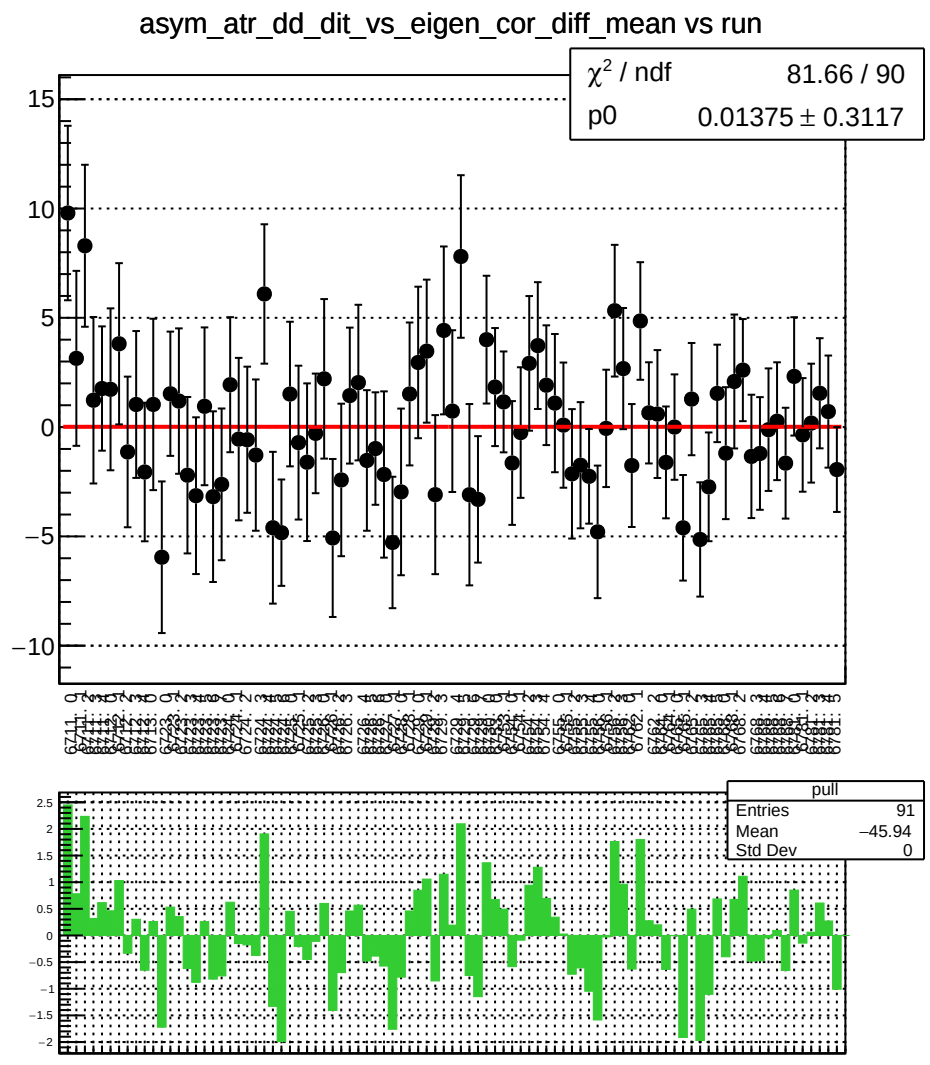

pull1D
Entries 91
Mean −0.1357
Std Dev 0.922
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

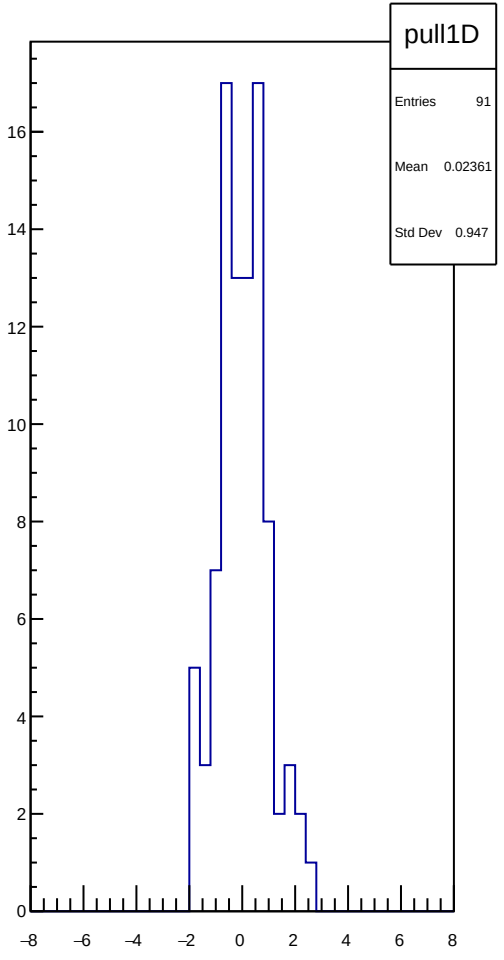

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.258e+06 / 90
p0 6.298e−11 ± 8.523e−14
1.2
1
0.8
0.6
0.4
0.2
0

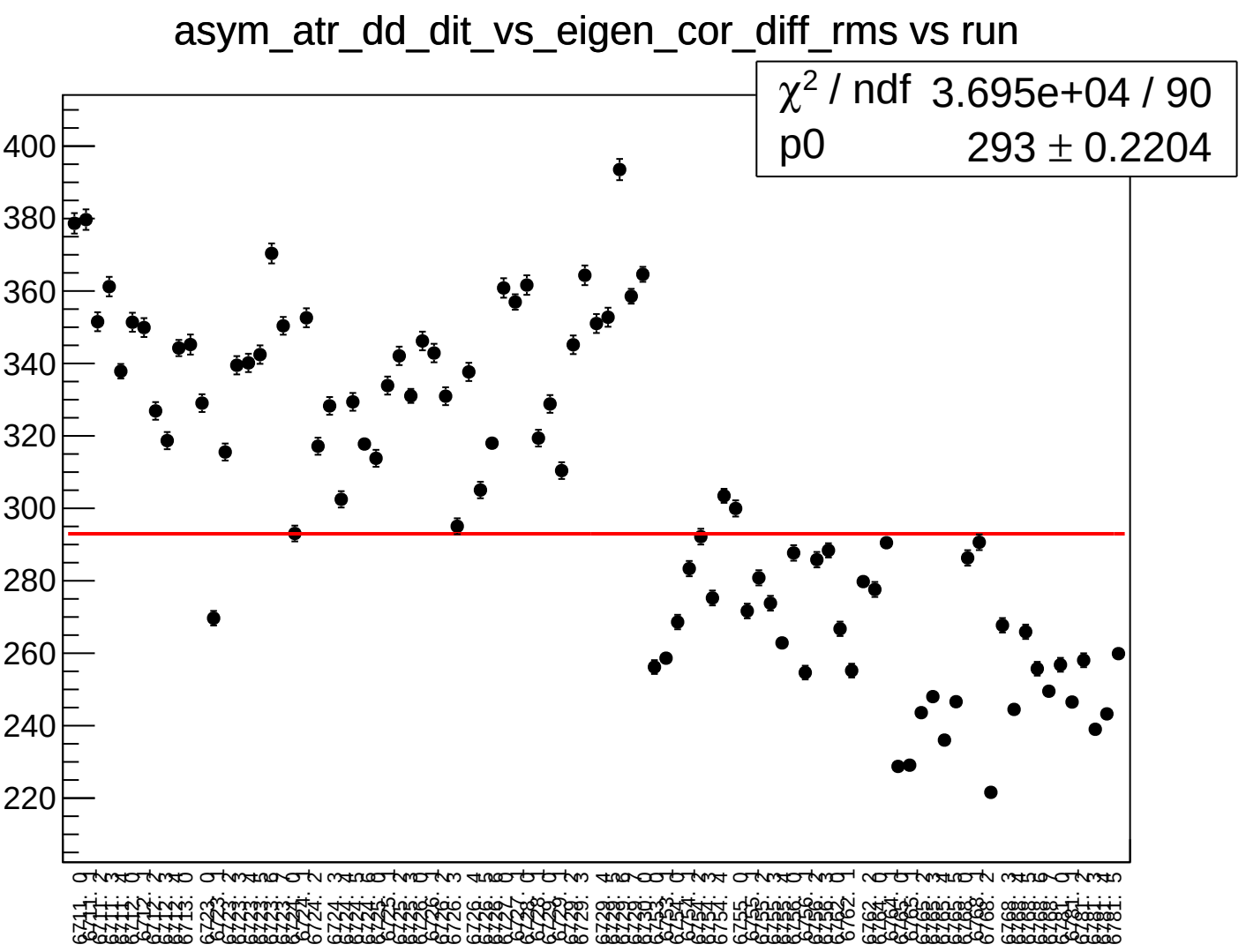

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.66 / 90
p0 0.01375 ± 0.3117
pull
Entries 91
Mean −45.94
Std Dev 0

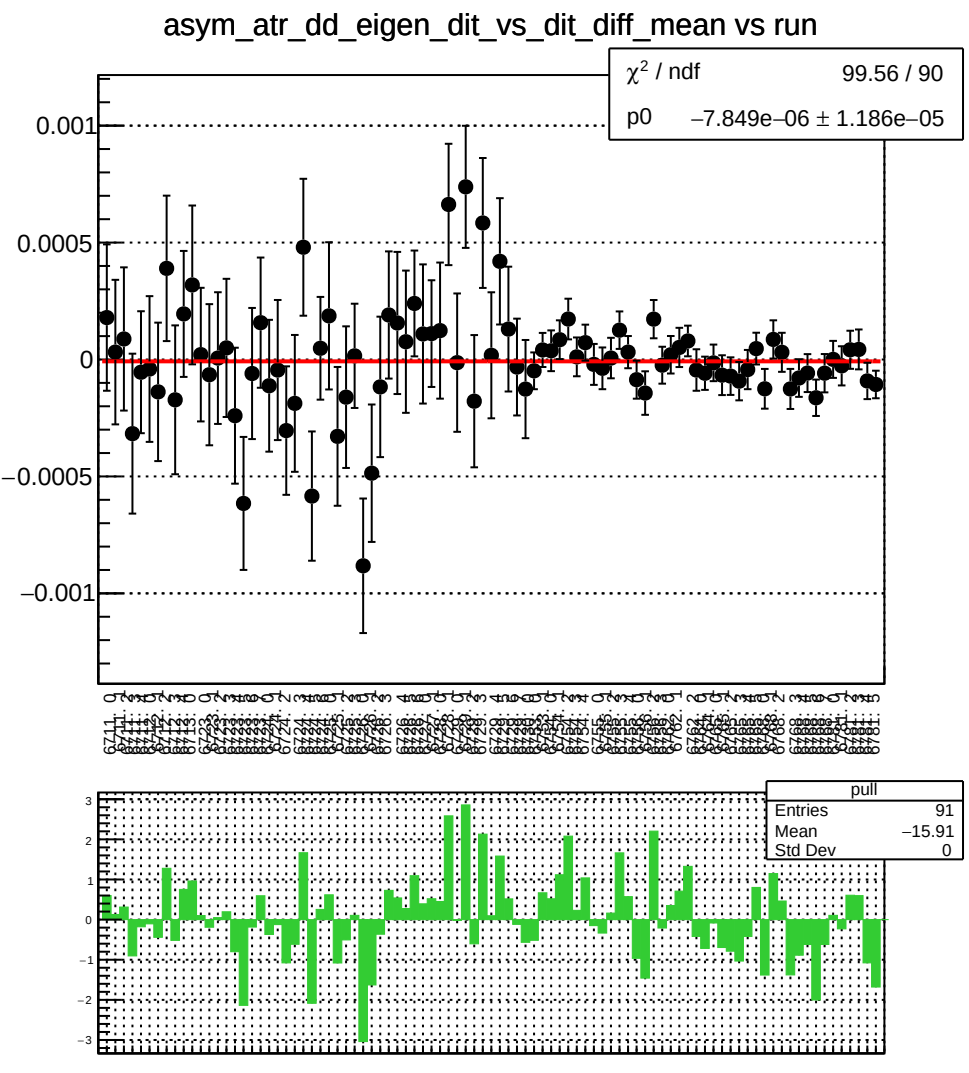

pull1D
Entries 91
Mean 0.02361
Std Dev 0.947

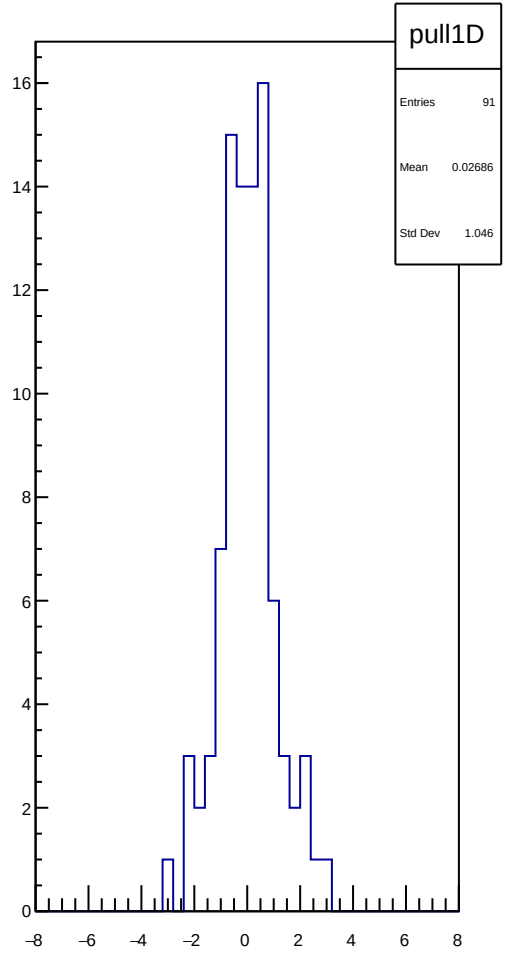

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.695e+04 / 90
p0 293 ± 0.2204
400
380
360
340
320
300
280
260
240
220

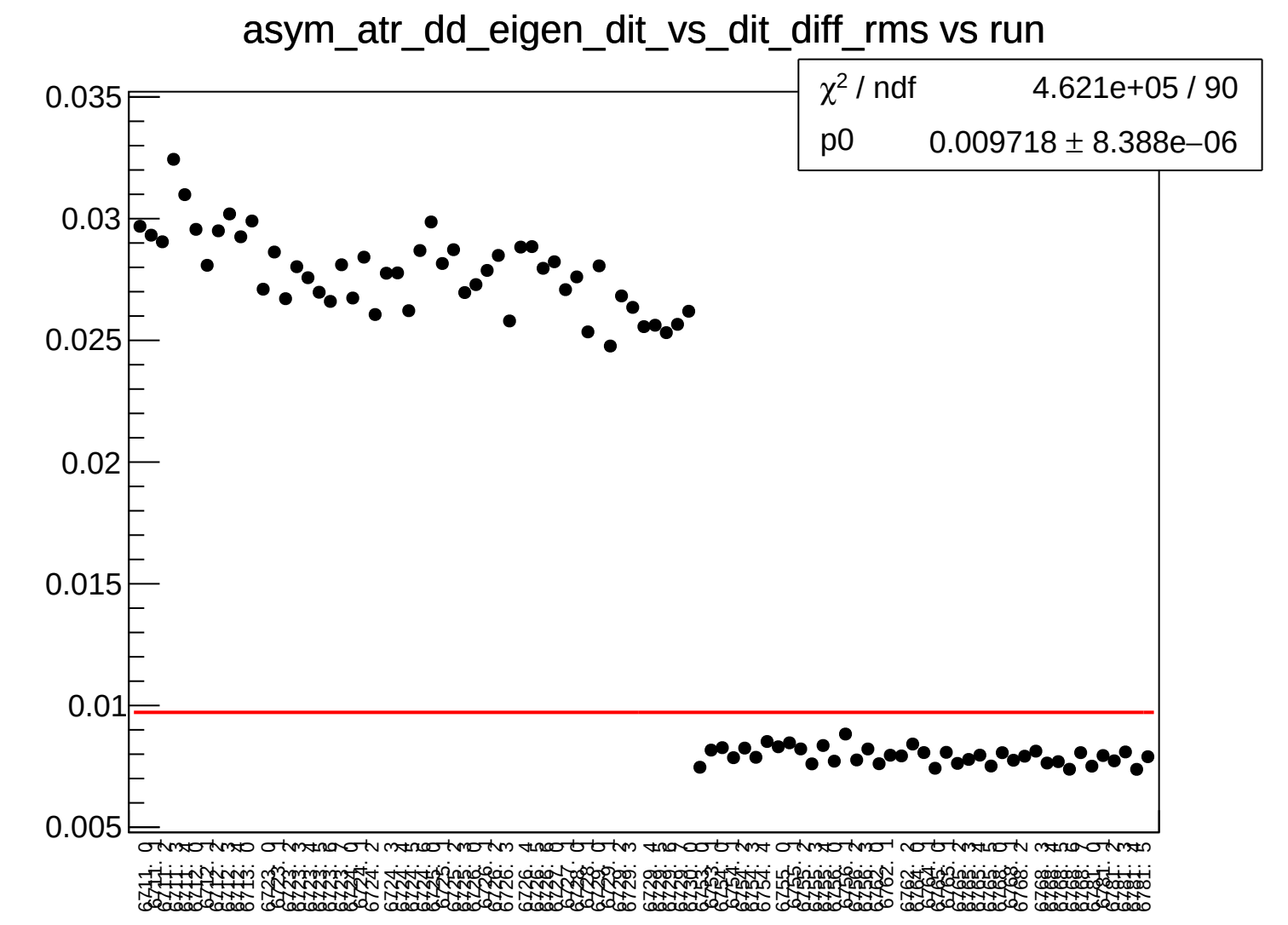

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.66 / 90
p0 0.01375 ± 0.3117
pull
Entries 91
Mean −45.94
Std Dev 0

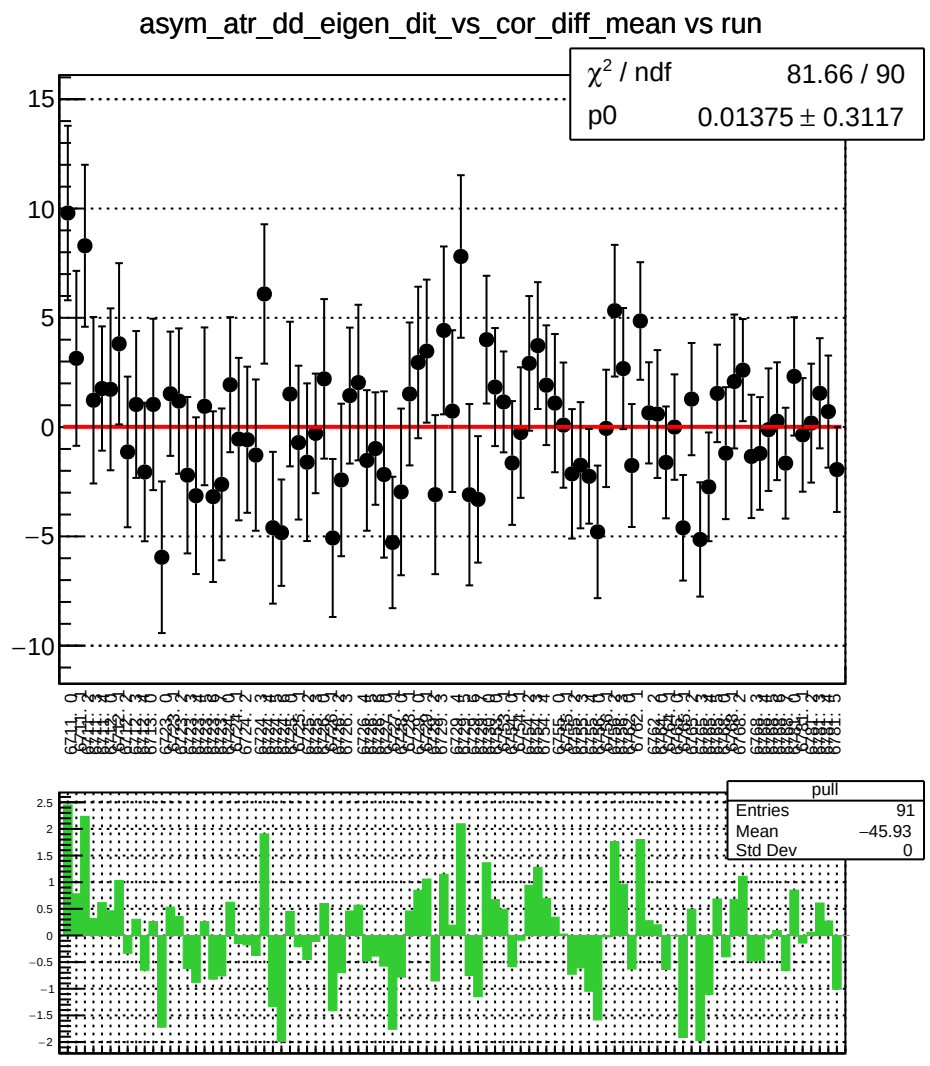

pull1D
Entries 91
Mean 0.02361
Std Dev 0.947

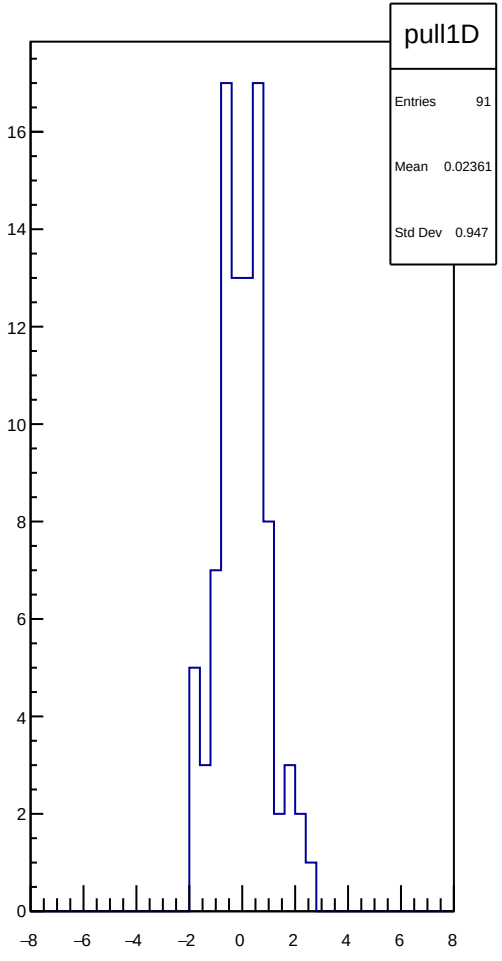

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.695e+04 / 90
p0 293 ± 0.2204
400
380
360
340
320
300
280
260
240
220

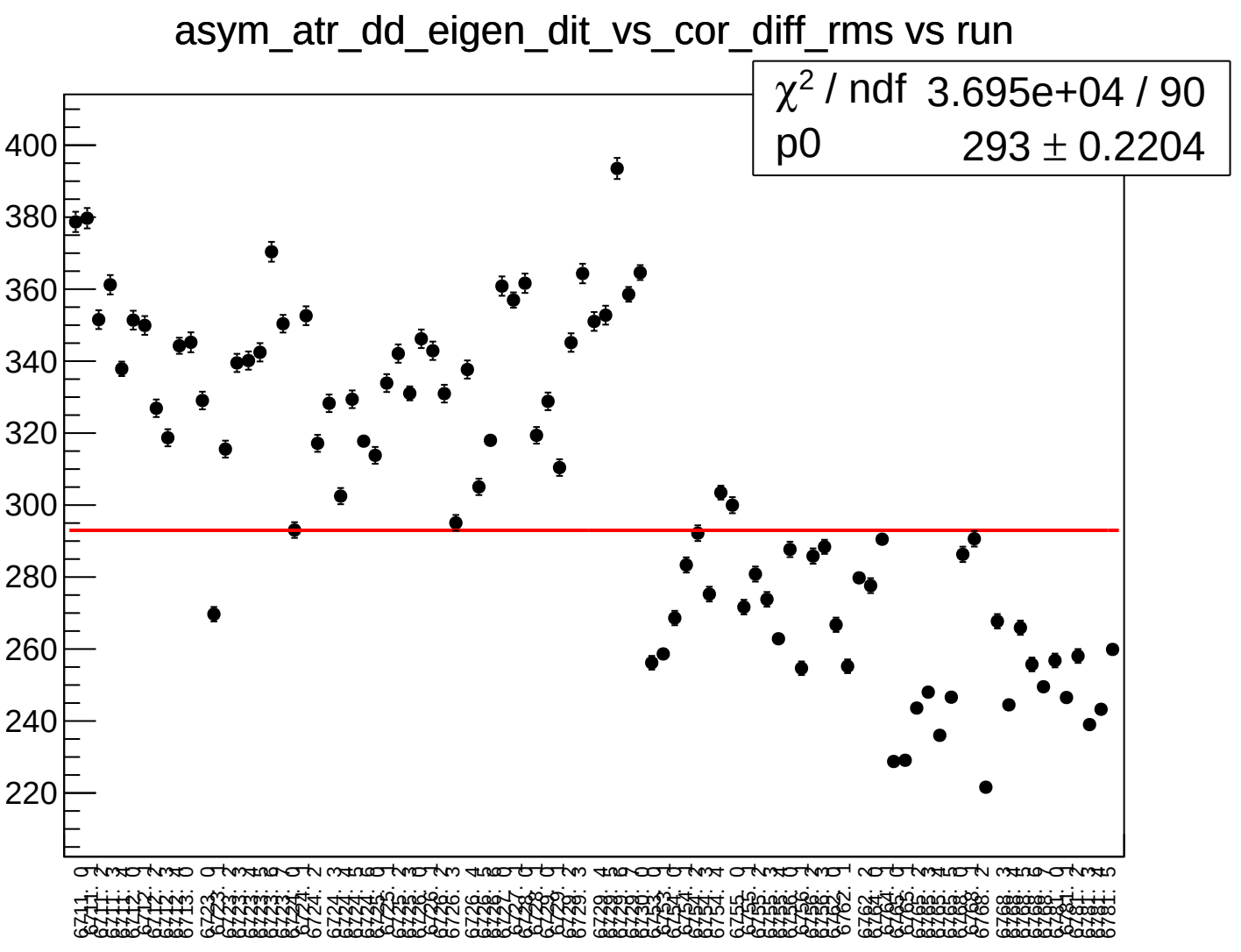

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 99.56 / 90
p0 −7.849e−06 ± 1.186e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean −15.91
Std Dev 0
3
2
1
0
−1
−2
−3

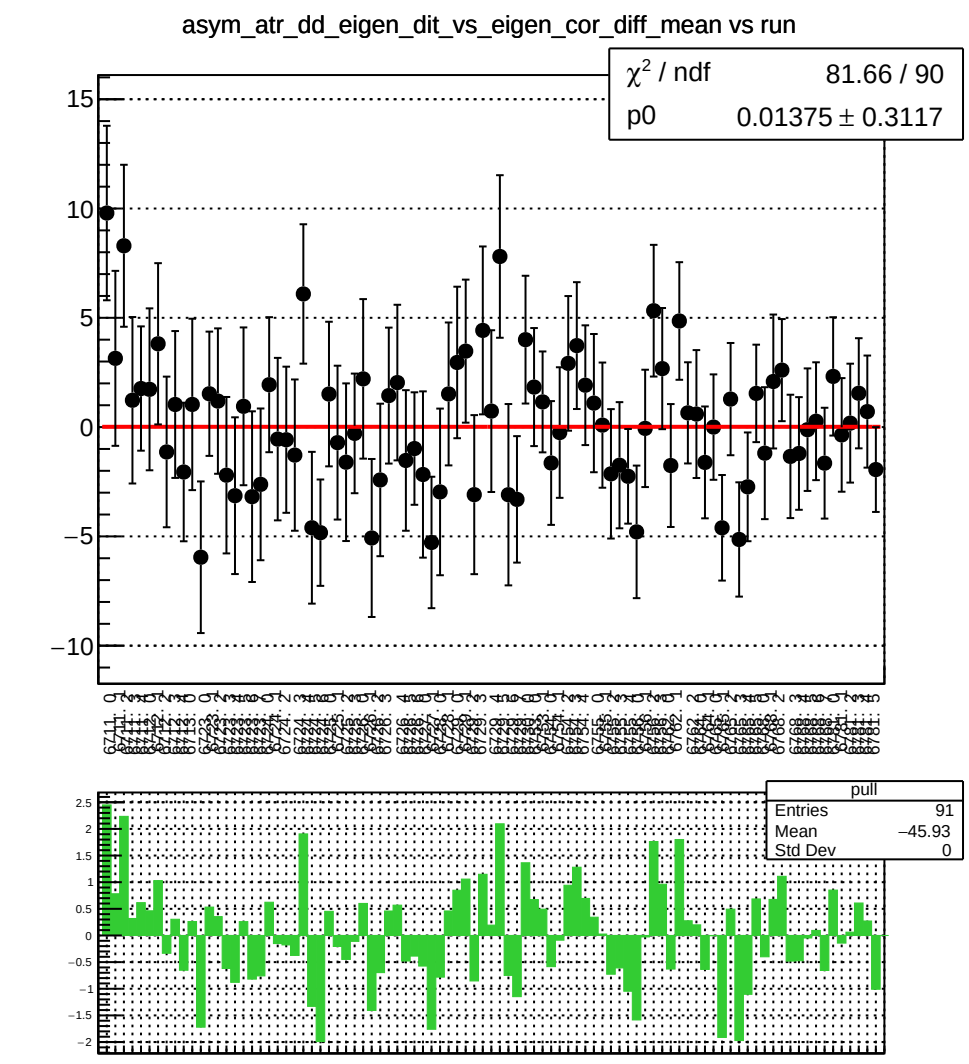

pull1D
Entries 91
Mean 0.02686
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

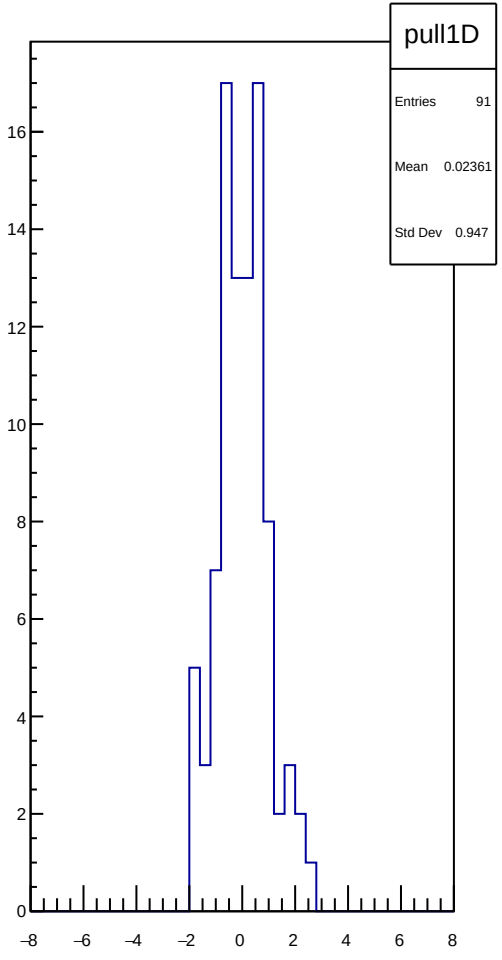

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.621e+05 / 90
p0 0.009718 ± 8.388e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

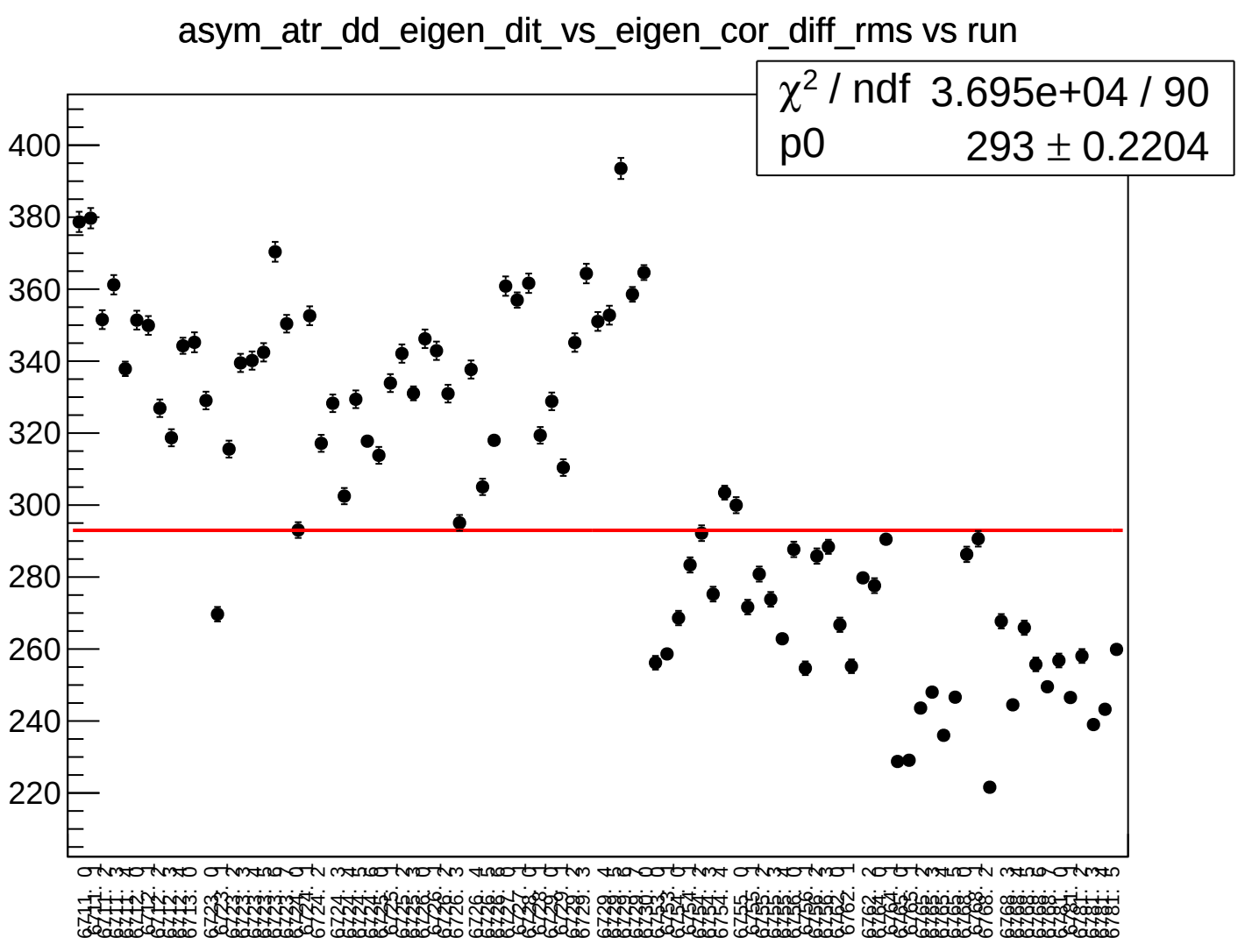

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.66 / 90
p0 0.01375 ± 0.3117
pull
Entries 91
Mean −45.93
Std Dev 0

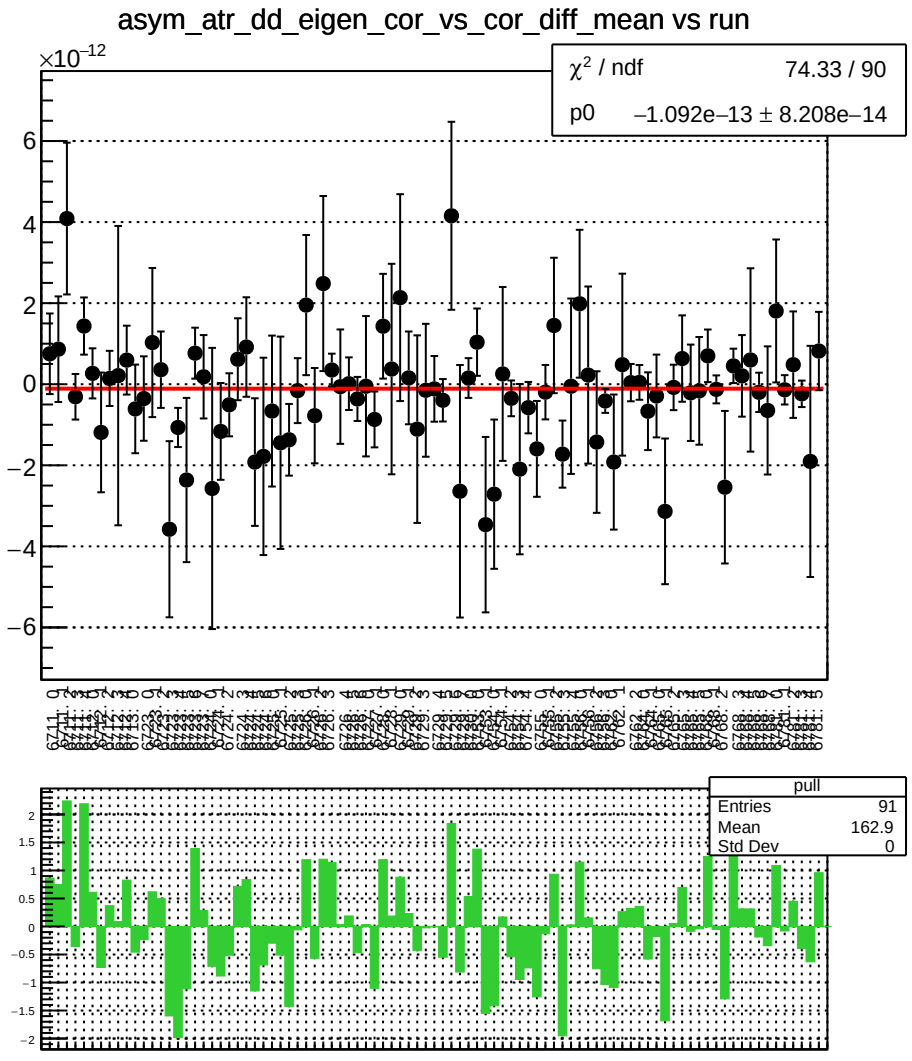

pull1D
Entries 91
Mean 0.02361
Std Dev 0.947

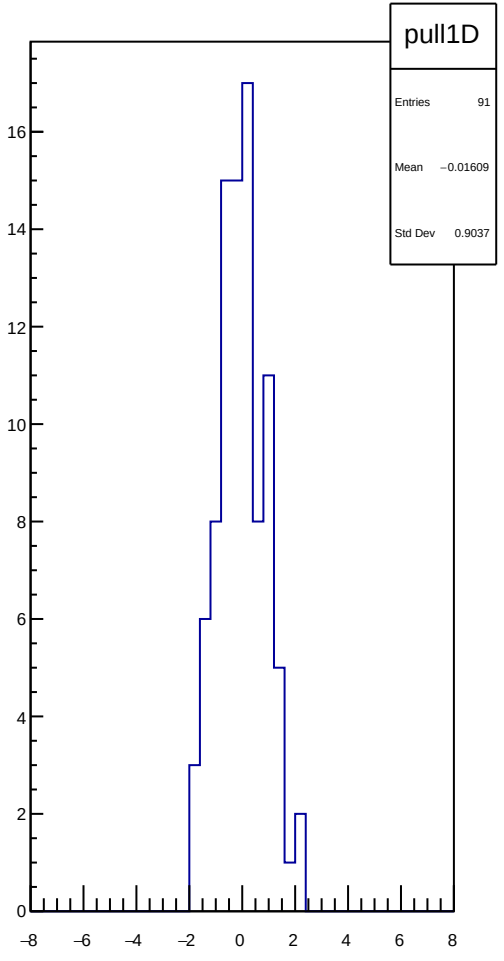

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.695e+04 / 90
p0 293 ± 0.2204
400
380
360
340
320
300
280
260
240
220

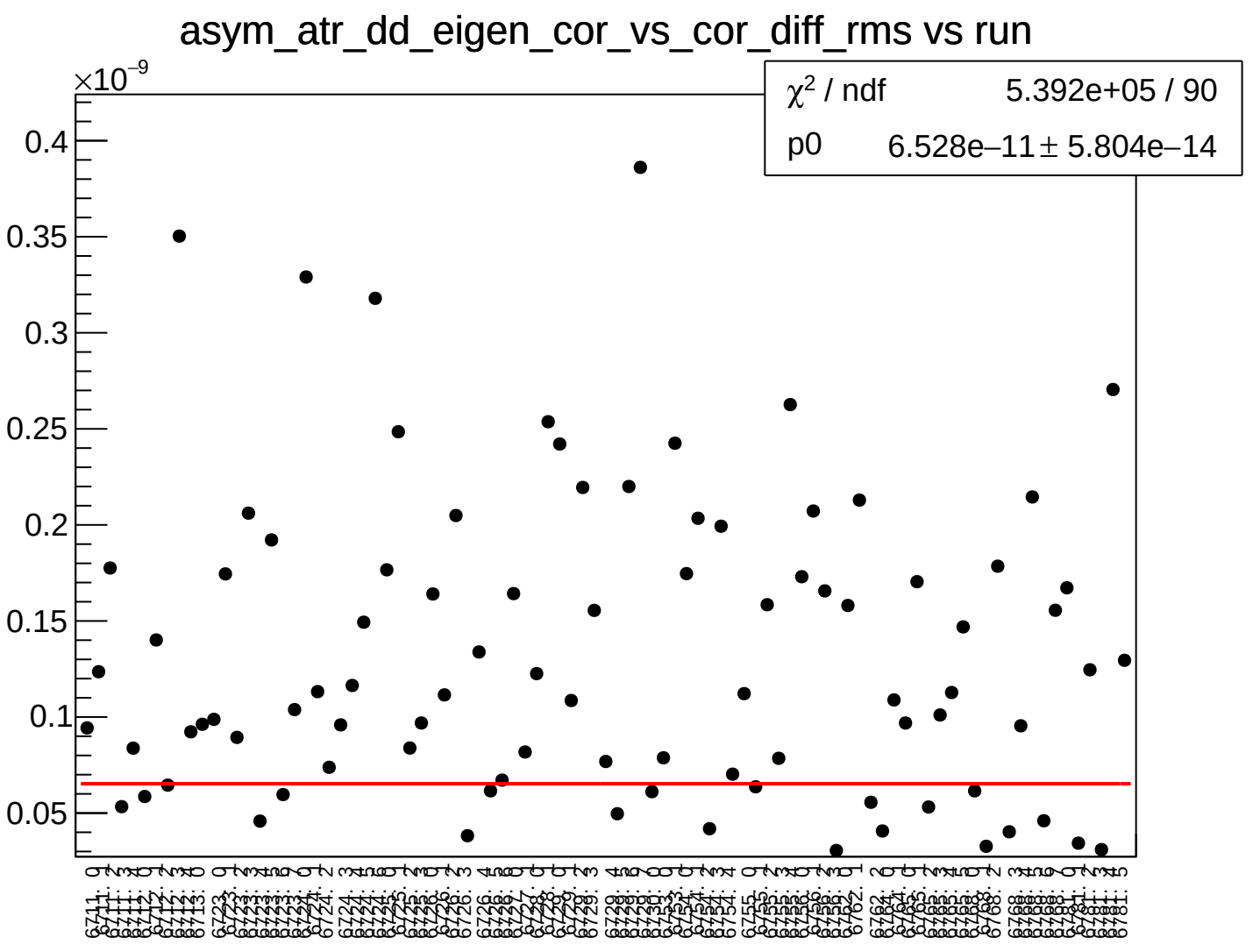

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.66 / 90
p0 0.01375 ± 0.3117
pull
Entries 91
Mean −45.93
Std Dev 0

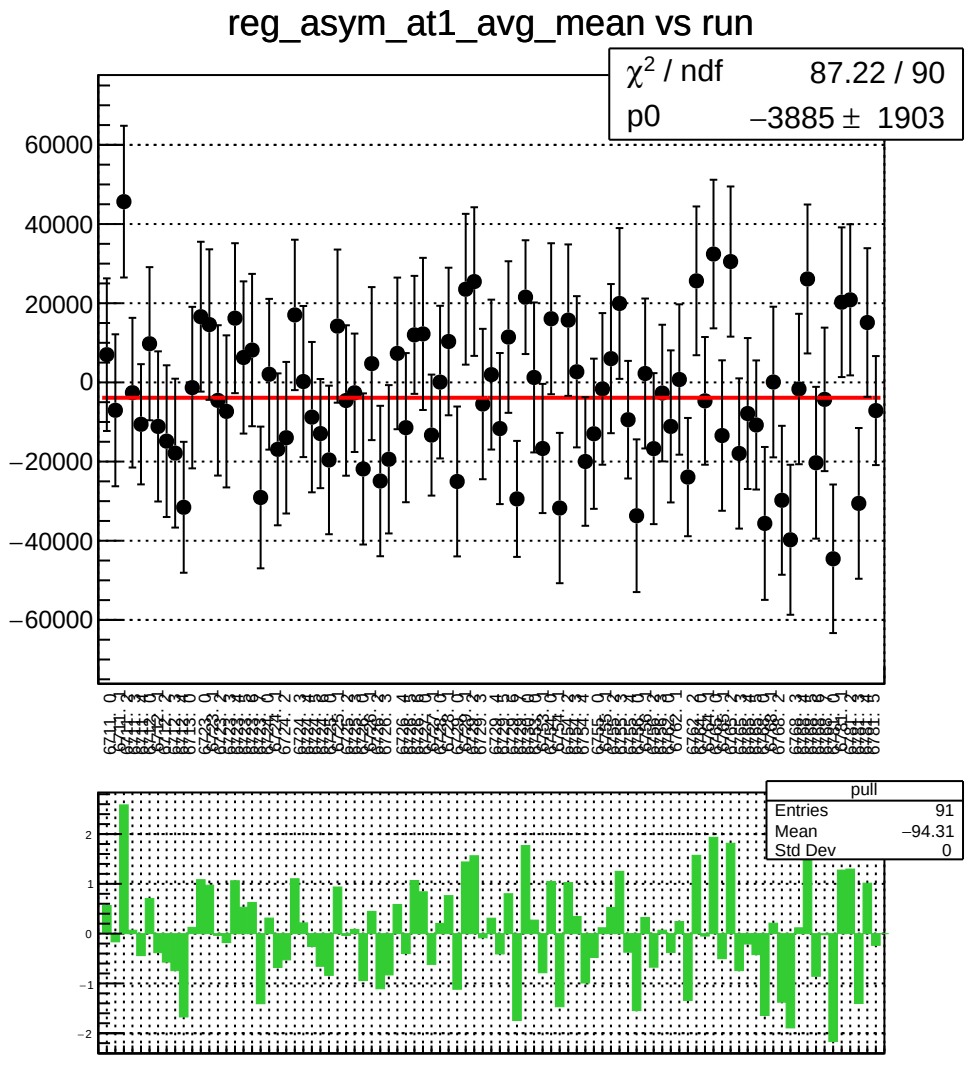

pull1D
Entries 91
Mean 0.02361
Std Dev 0.947

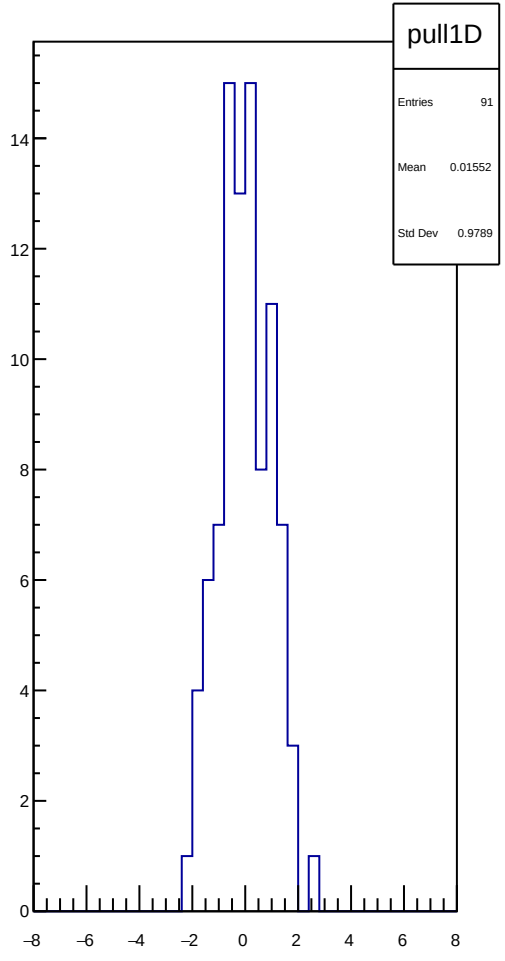

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.695e+04 / 90
p0 293 ± 0.2204
400
380
360
340
320
300
280
260
240
220

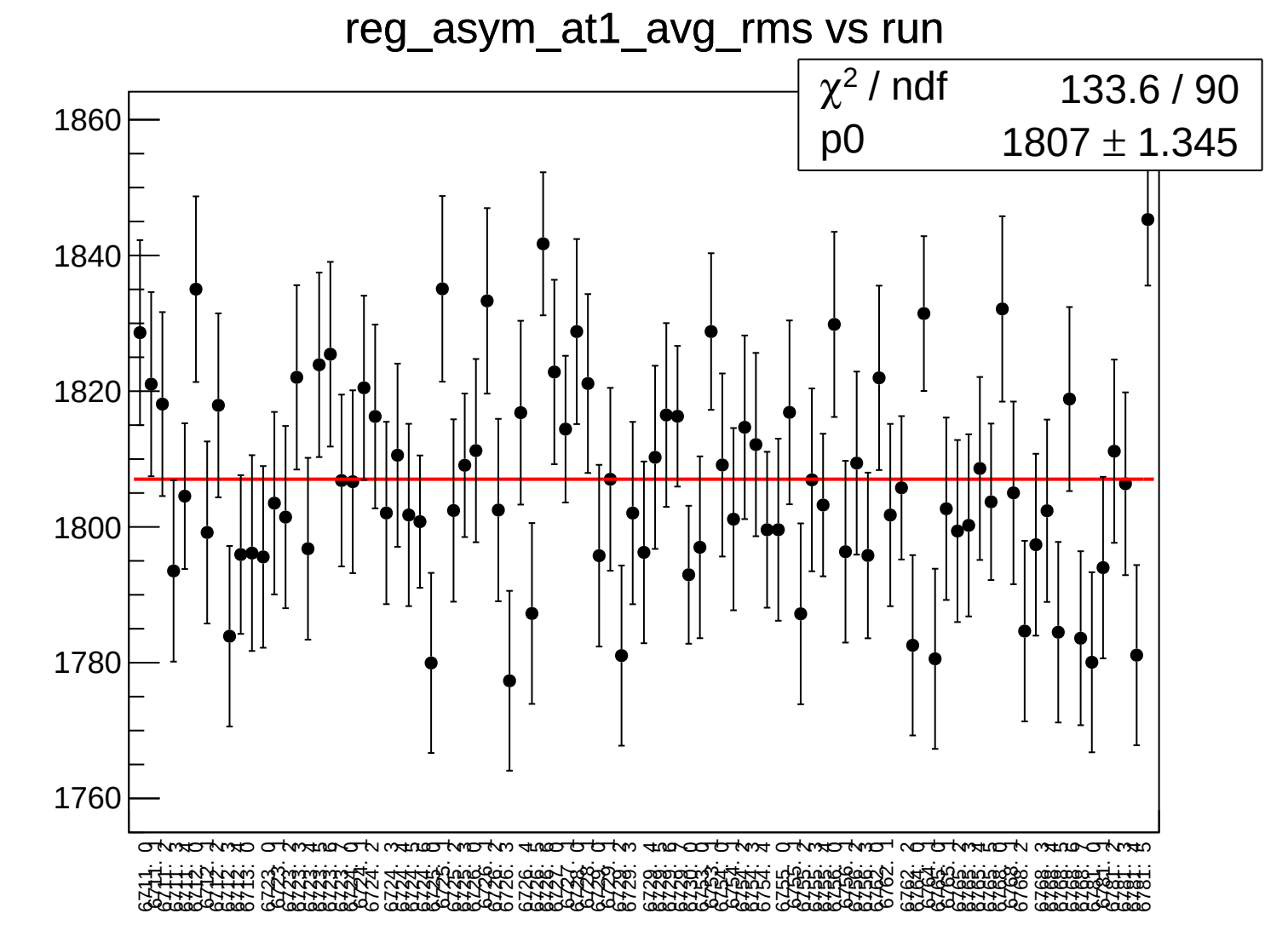

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.33 / 90
p0 −1.092e−13 ± 8.208e−14
pull
Entries 91
Mean 162.9
Std Dev 0

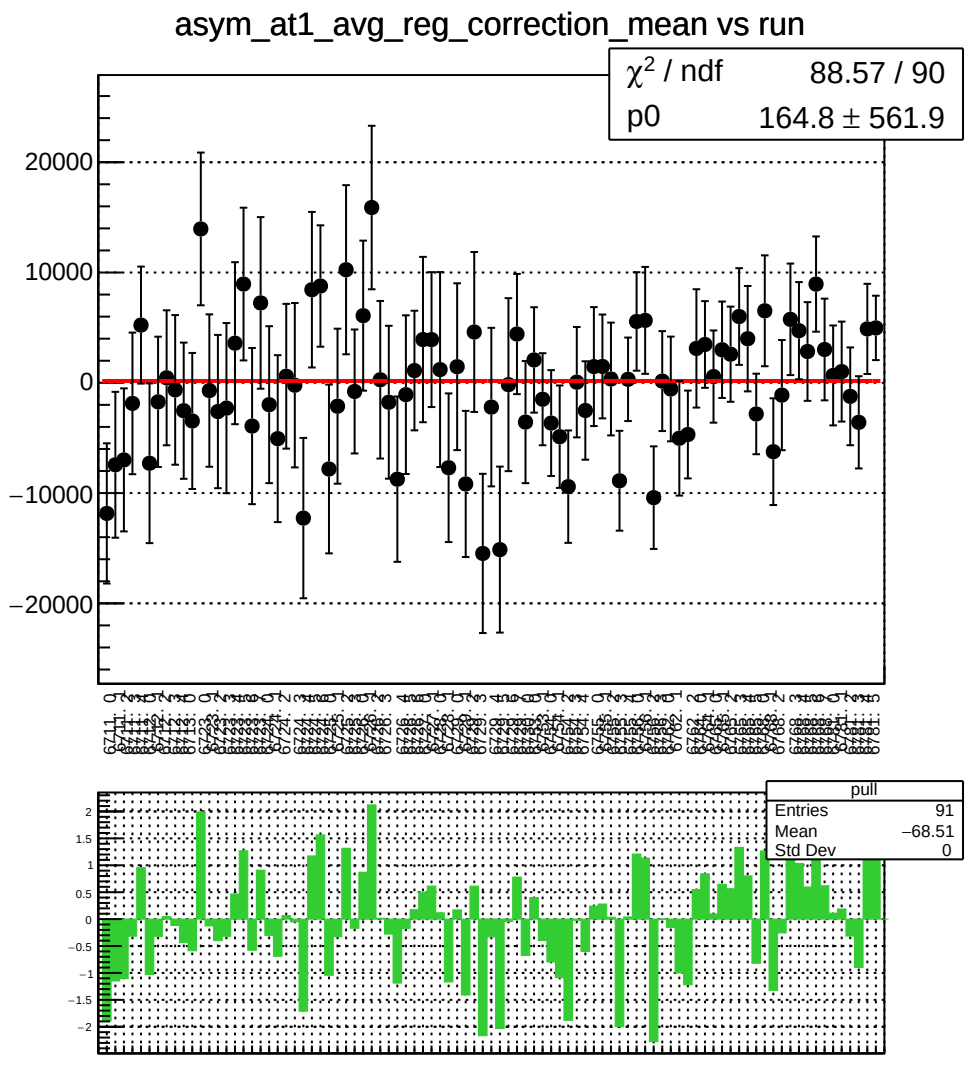

pull1D
Entries 91
Mean −0.01609
Std Dev 0.9037

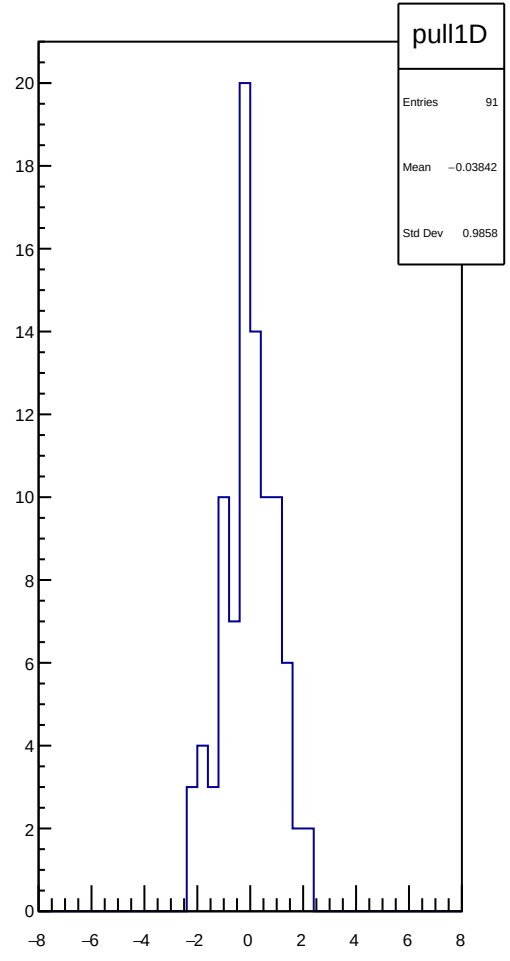

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.392e+05 / 90
p0 6.528e−11 ± 5.804e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

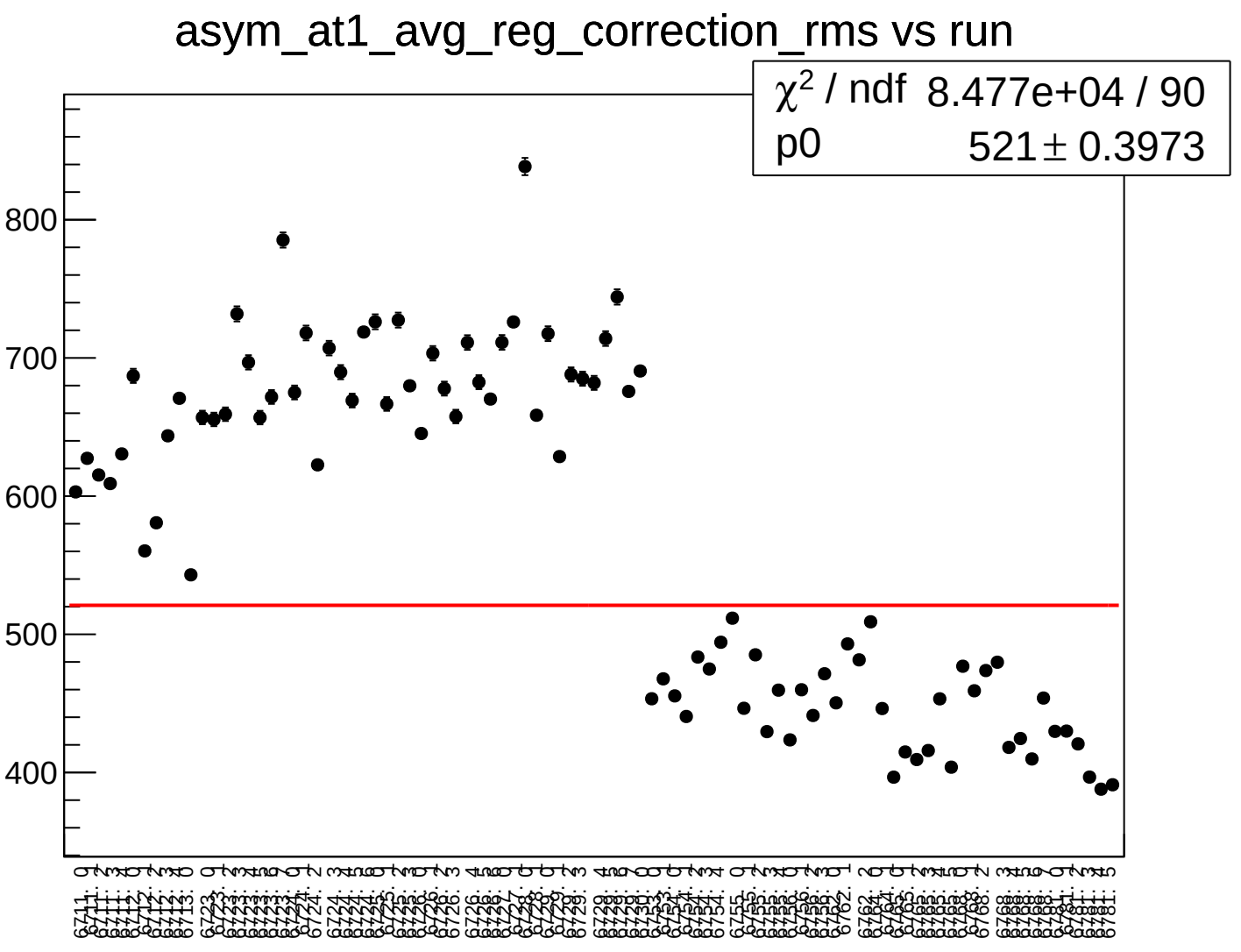

reg_asym_at1_avg_mean vs run
χ² / ndf 87.22 / 90
p0 −3885 ± 1903
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −94.31
Std Dev 0
2
1
0
−1
−2

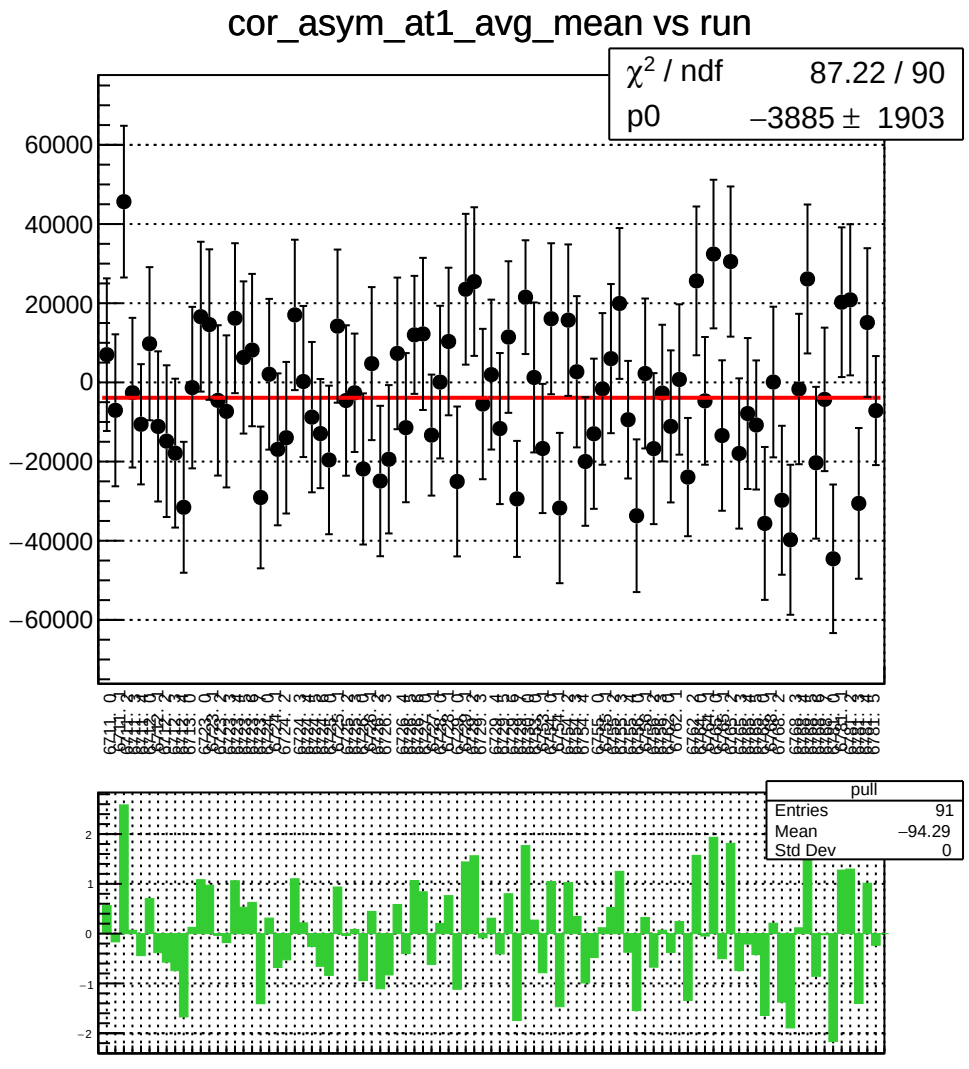

pull1D
Entries 91
Mean 0.01552
Std Dev 0.9789
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

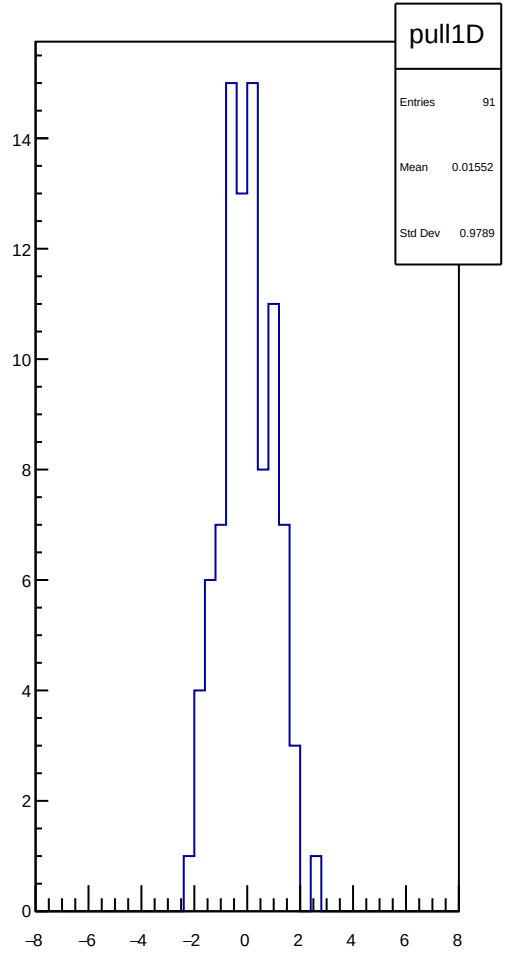

reg_asym_at1_avg_rms vs run
χ² / ndf 133.6 / 90
p0 1807 ± 1.345
1860
1840
1820
1800
1780
1760

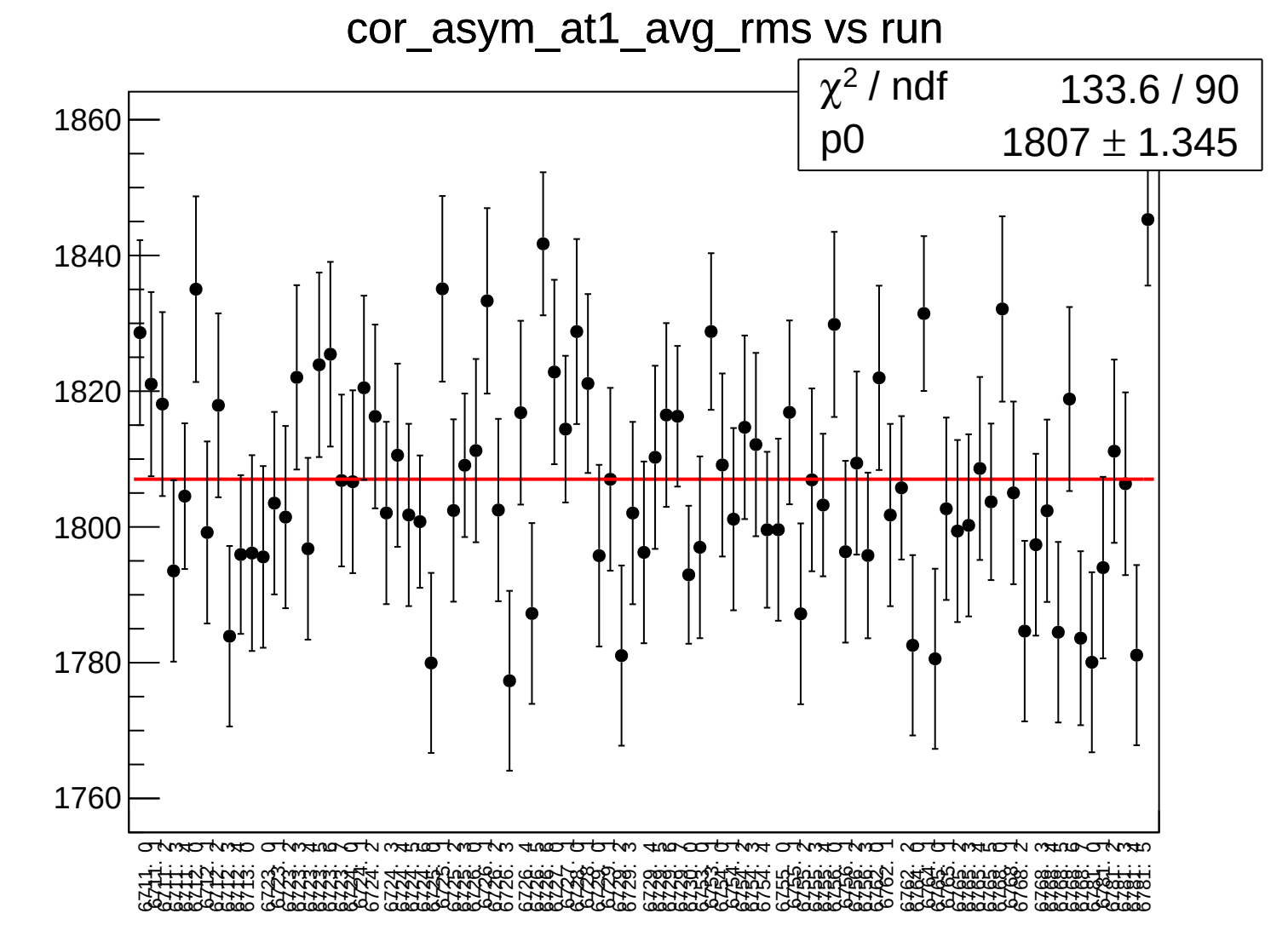

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 88.57 / 90
p0 164.8 ± 561.9
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −68.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

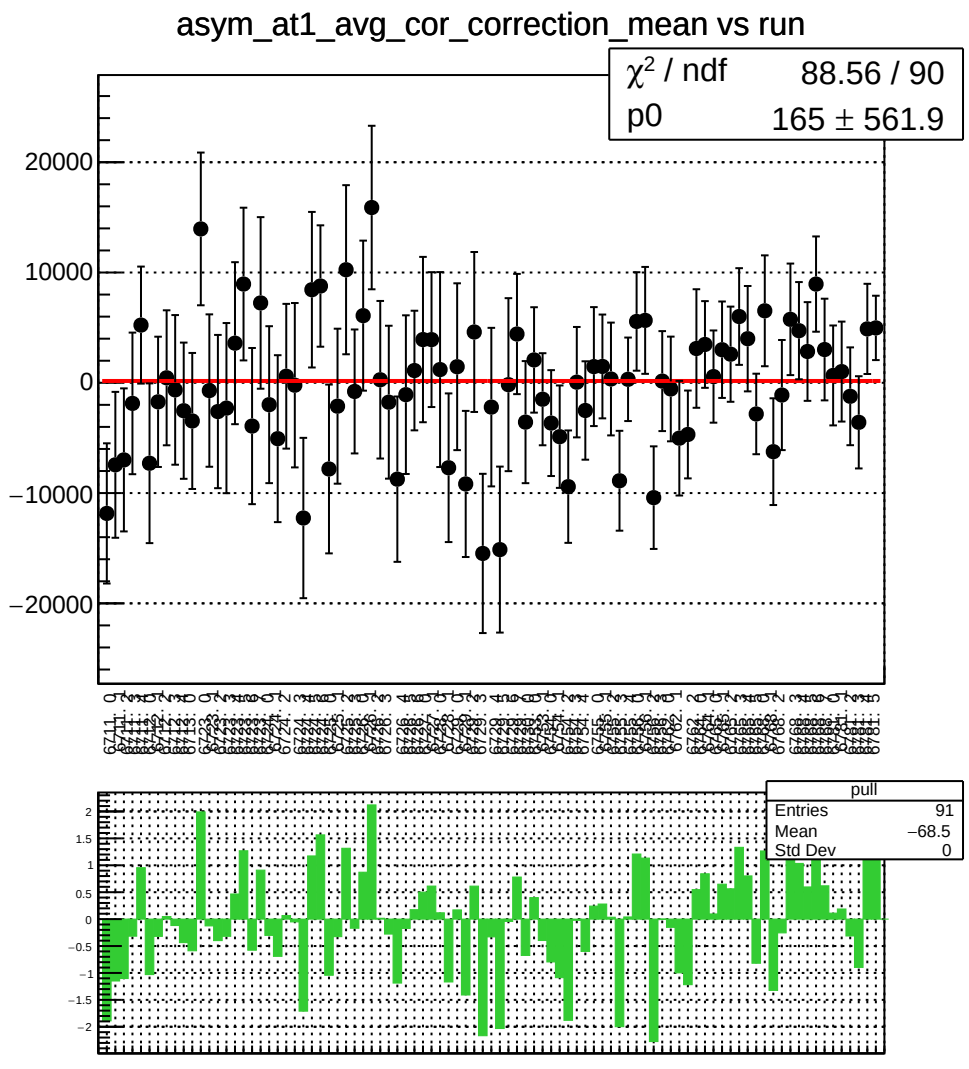

pull1D
Entries 91
Mean −0.03842
Std Dev 0.9858
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

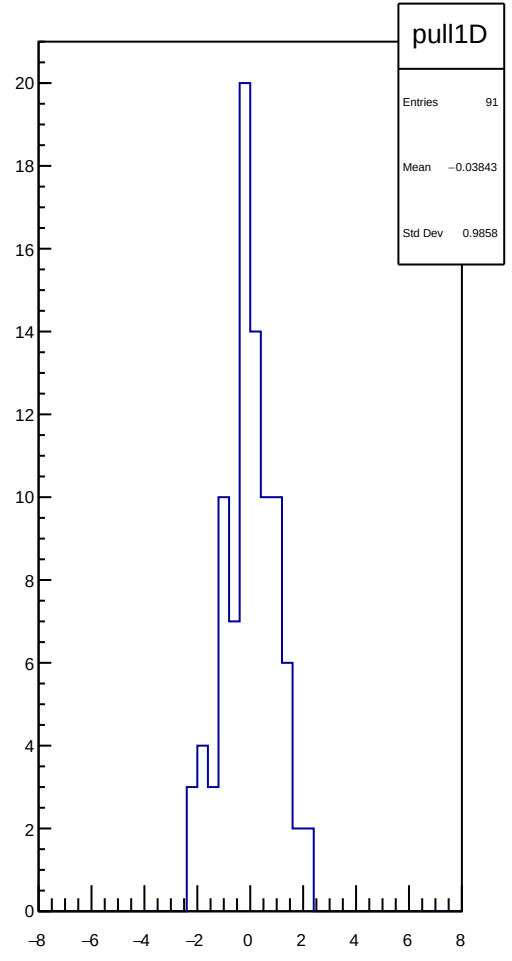

asym_at1_avg_reg_correction_rms vs run
χ^2 / ndf 8.477e+04 / 90
p0 521 ± 0.3973
800
700
600
500
400

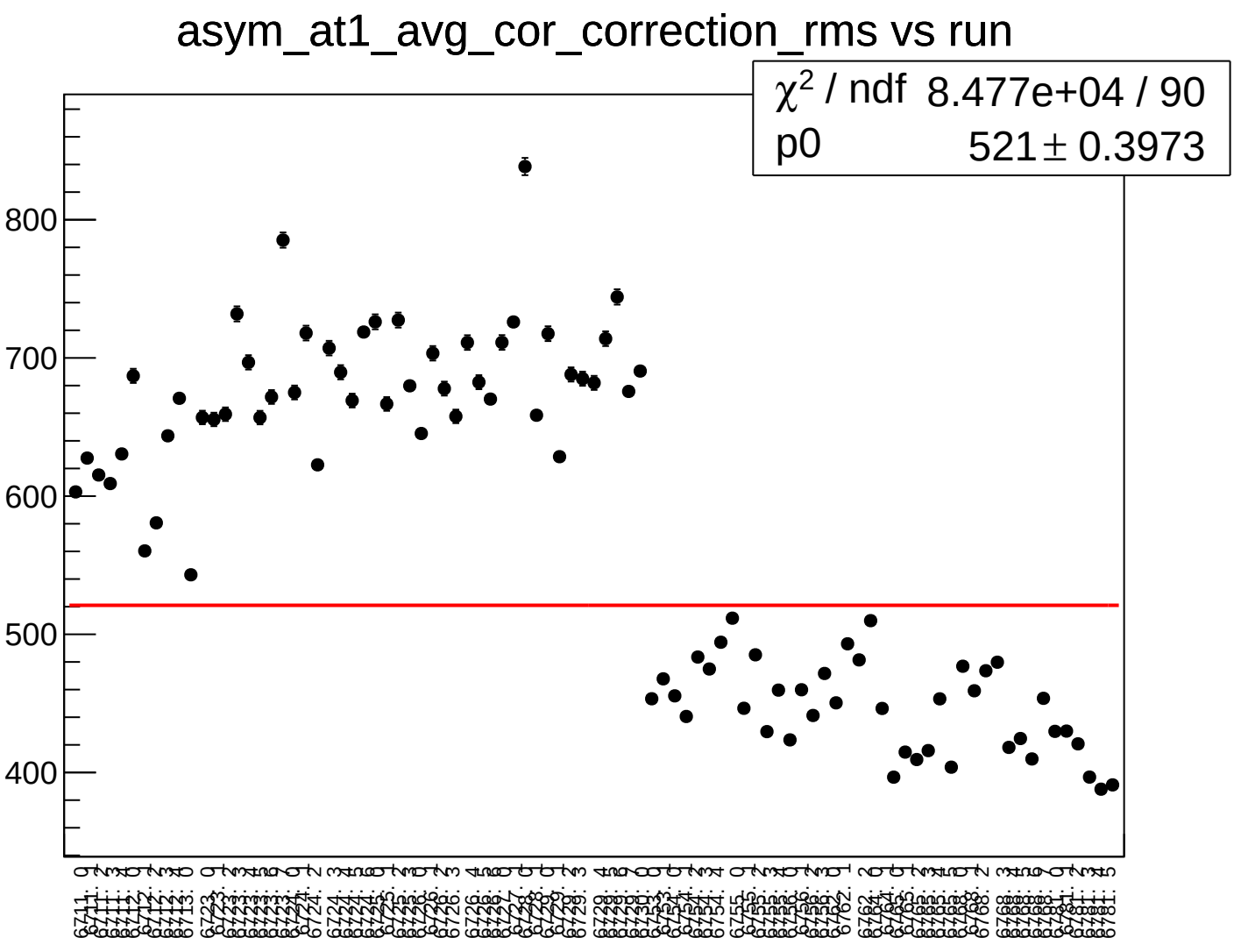

cor_asym_at1_avg_mean vs run
χ² / ndf 87.22 / 90
p0 −3885 ± 1903
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −94.29
Std Dev 0
2
1
0
−1
−2

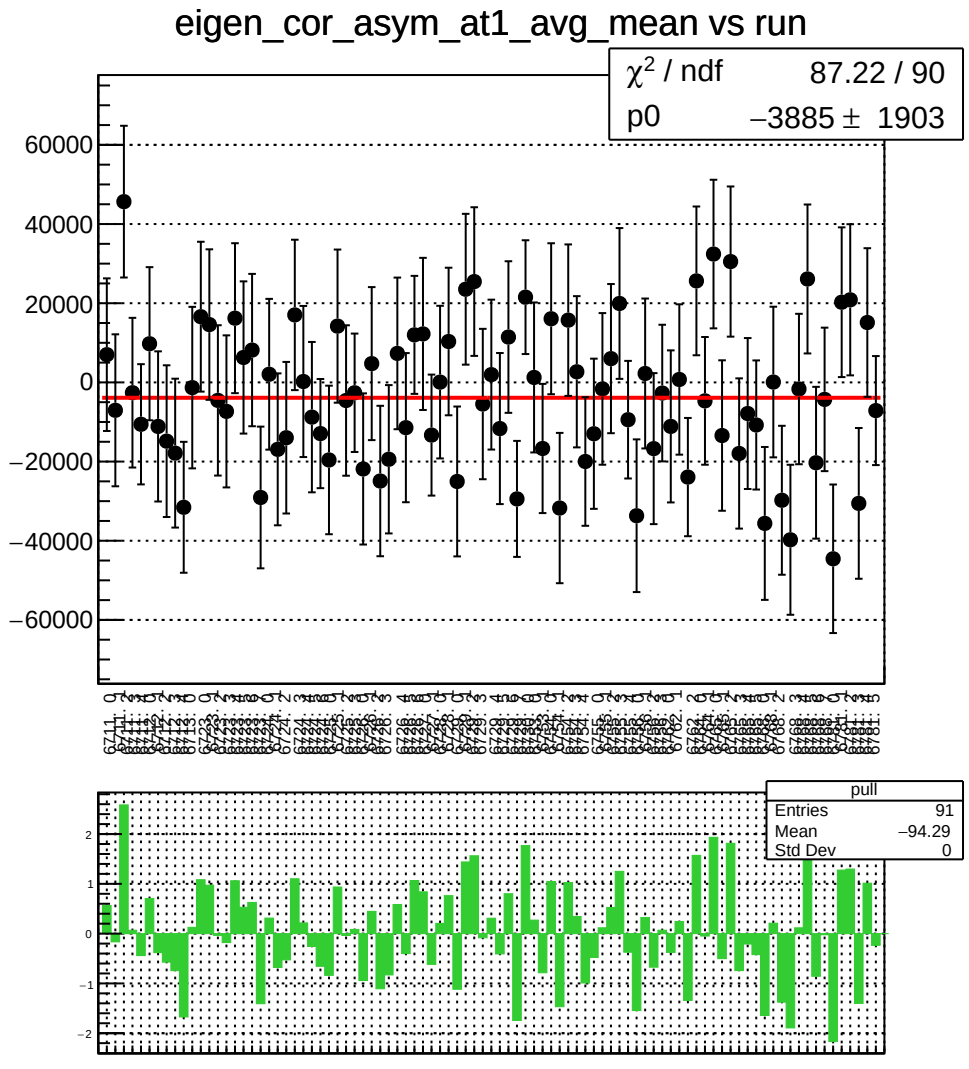

pull1D
Entries 91
Mean 0.01552
Std Dev 0.9789
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

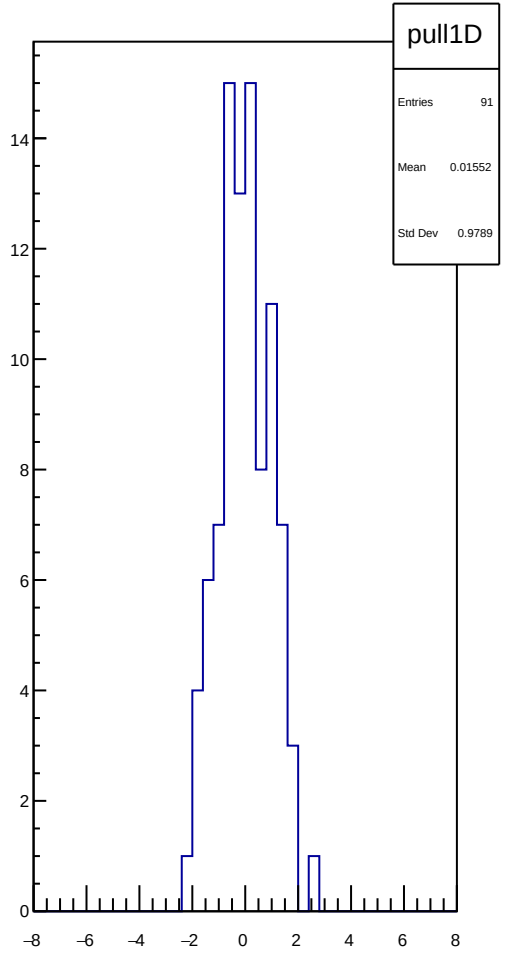

cor_asym_at1_avg_rms vs run
χ^2 / ndf 133.6 / 90
p0 1807 ± 1.345
1860
1840
1820
1800
1780
1760

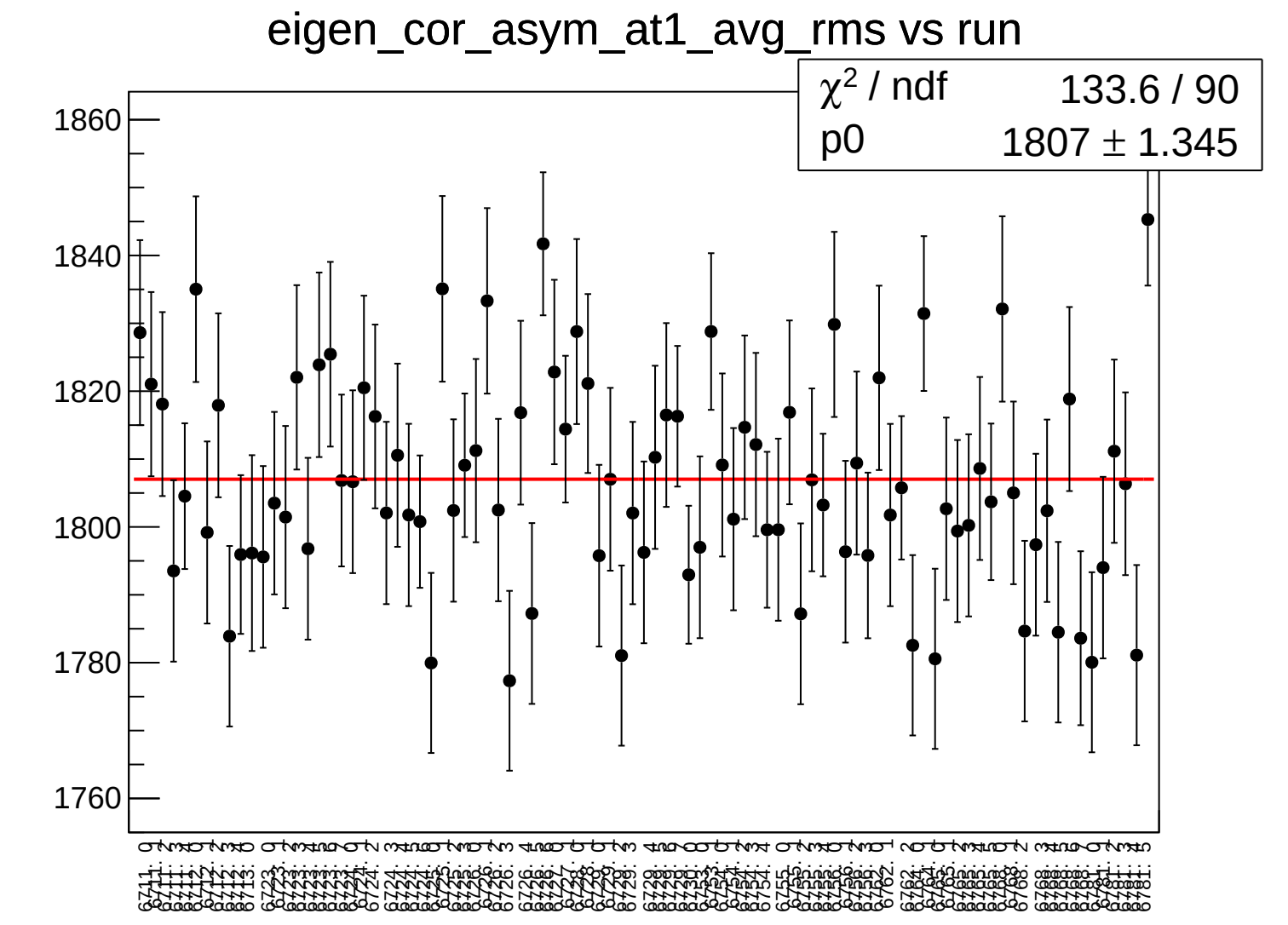

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 88.56 / 90
p0 165 ± 561.9
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −68.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

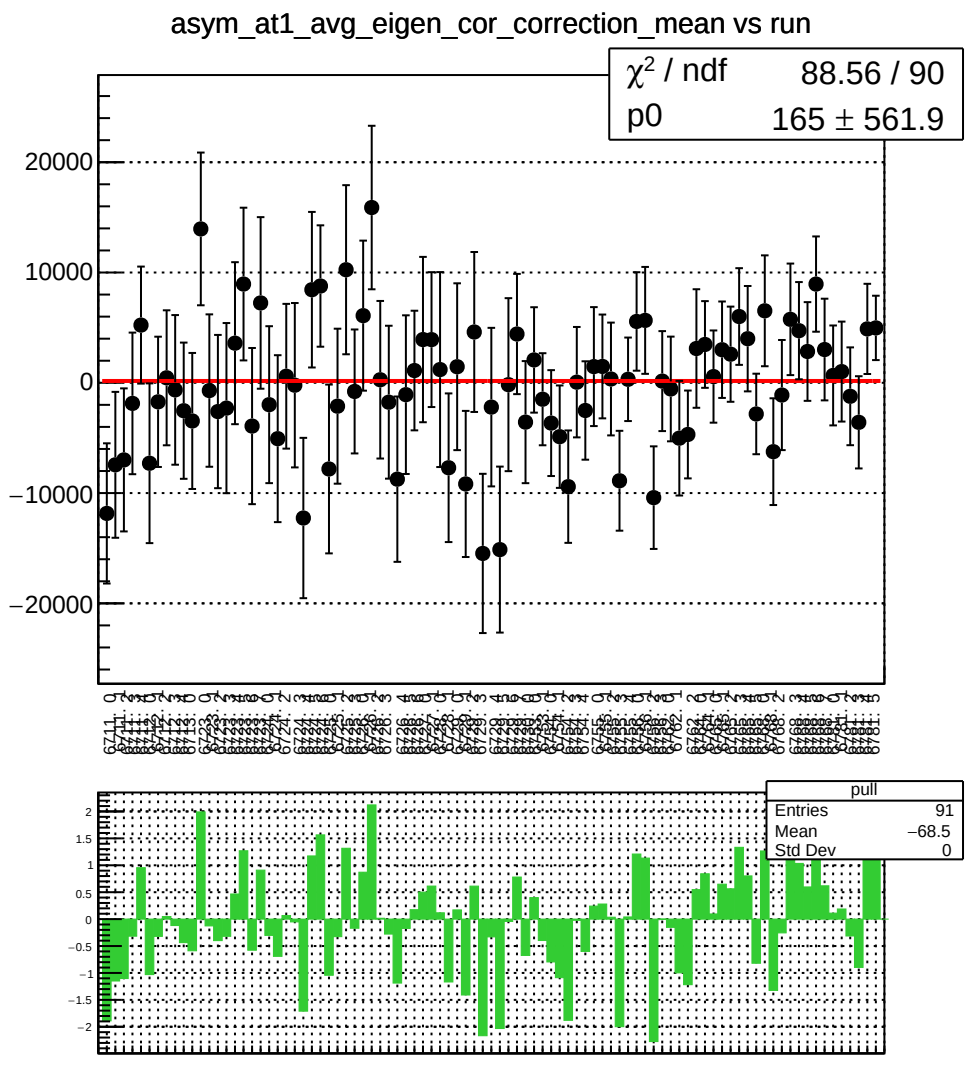

pull1D
Entries 91
Mean −0.03843
Std Dev 0.9858
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

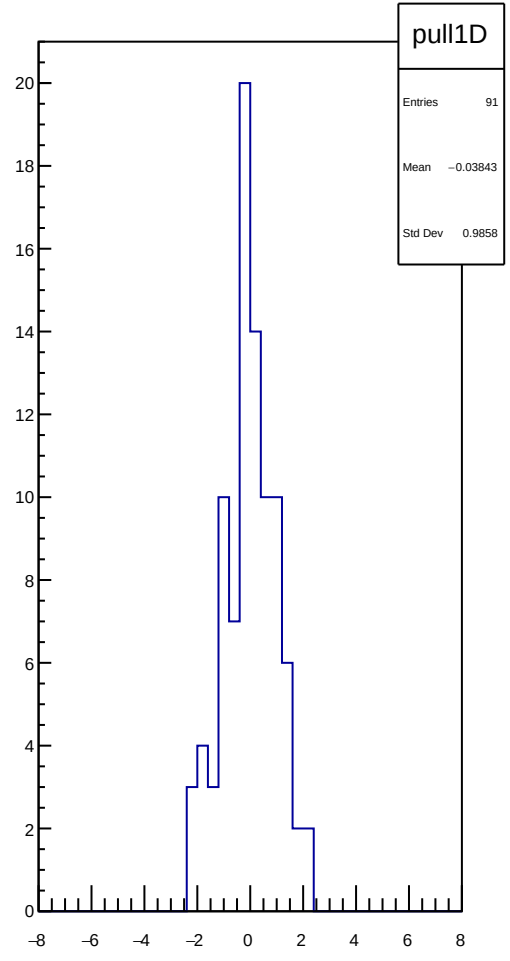

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 8.477e+04 / 90
p0 521 ± 0.3973
800
700
600
500
400

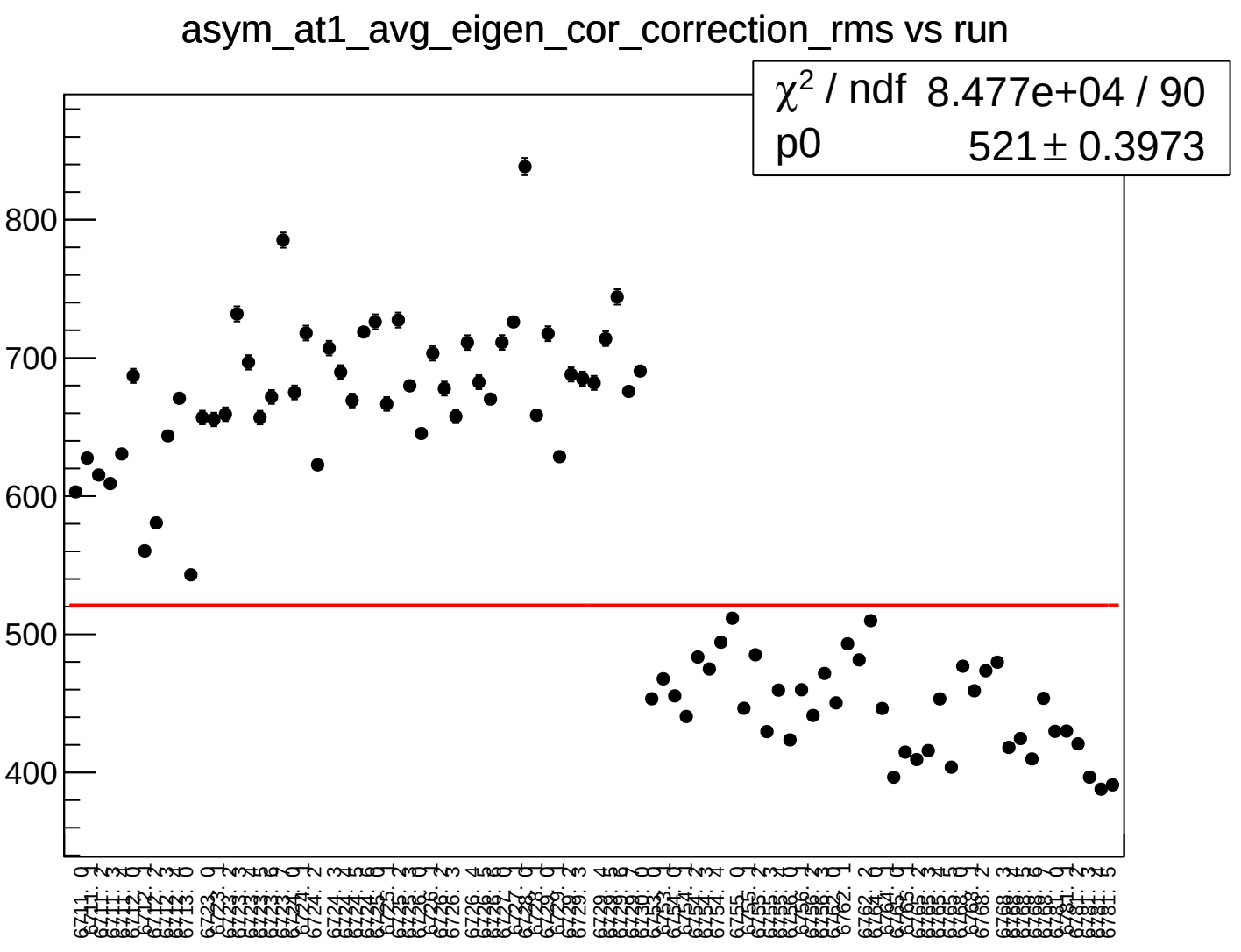

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 87.22 / 90
p0 −3885 ± 1903
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −94.29
Std Dev 0
2
1
0
−1
−2

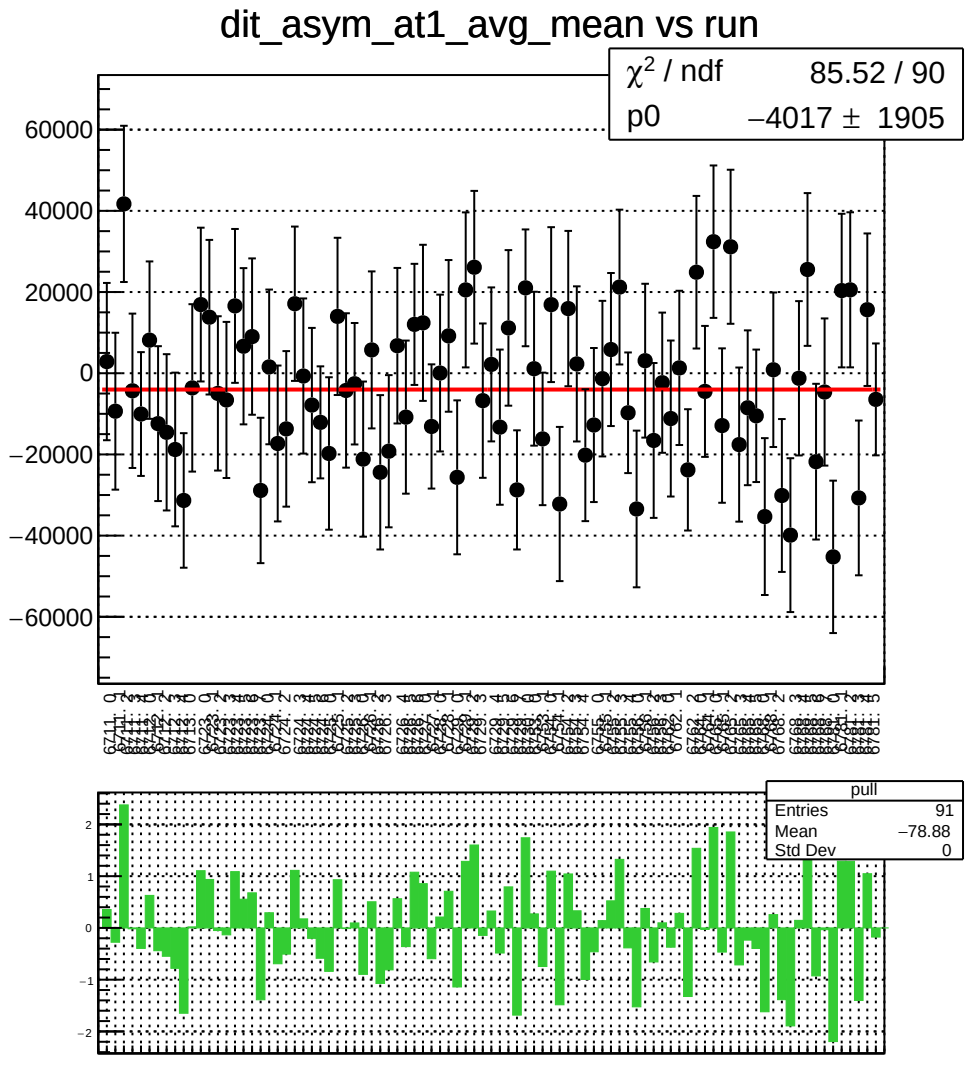

pull1D
Entries 91
Mean 0.01552
Std Dev 0.9789
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

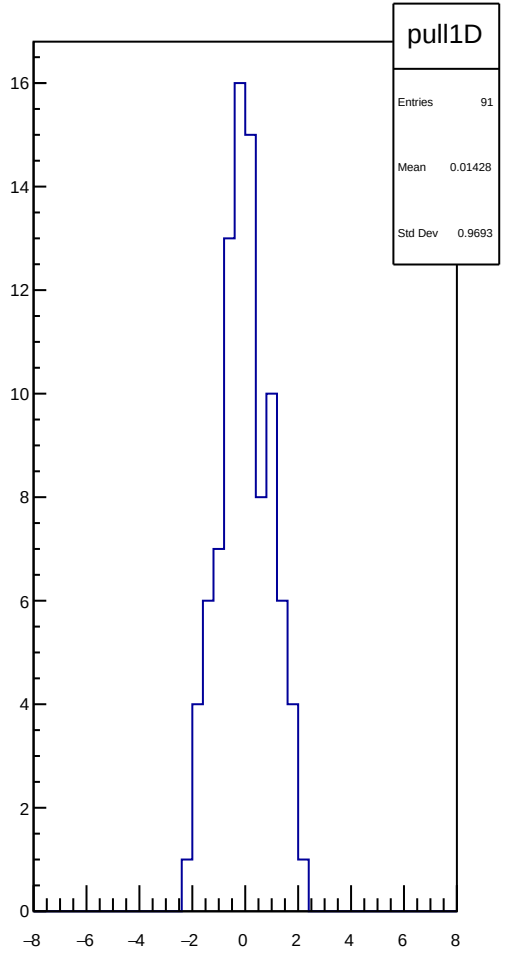

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 133.6 / 90
p0 1807 ± 1.345
1860
1840
1820
1800
1780
1760

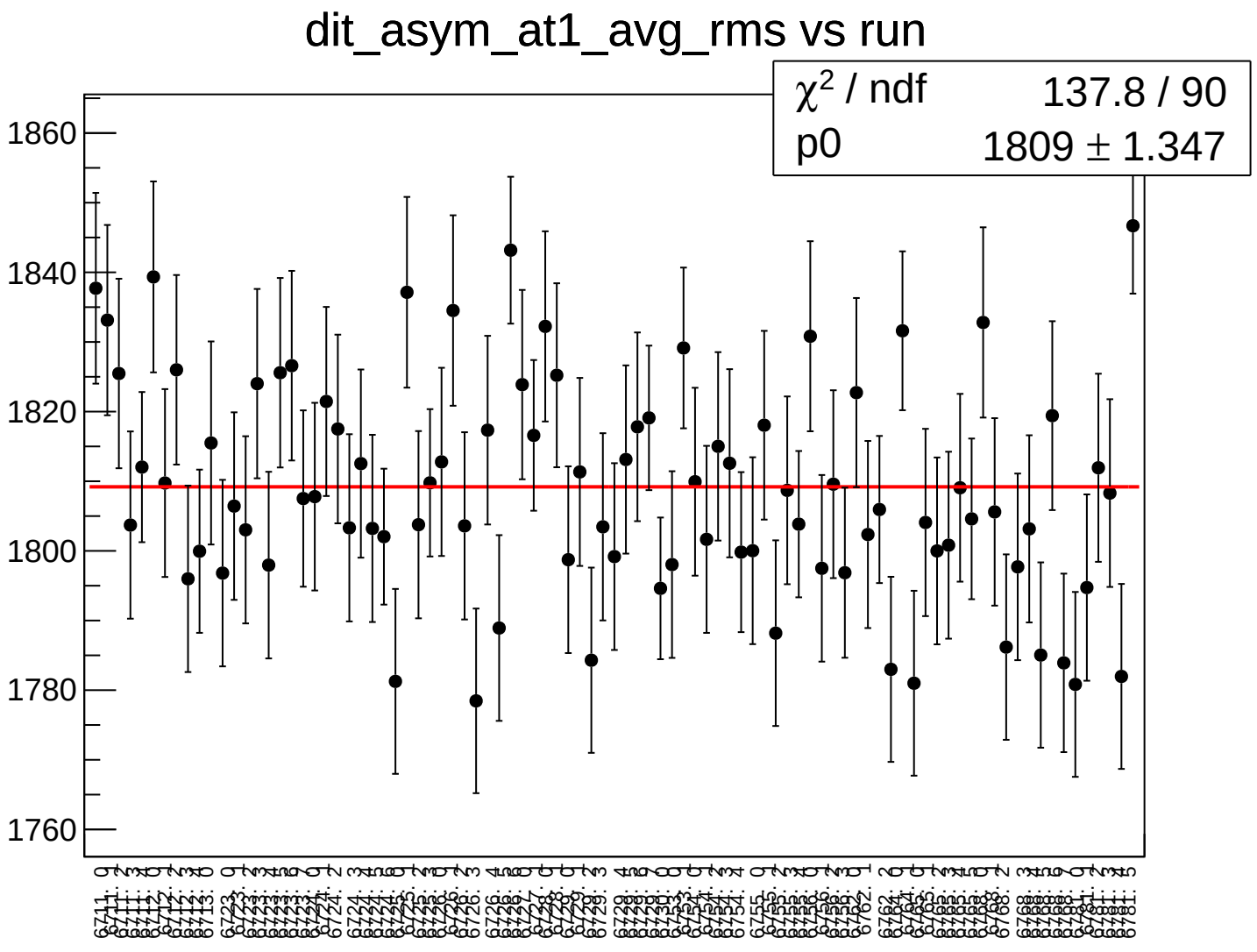

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.56 / 90
p0 165 ± 561.9
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −68.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

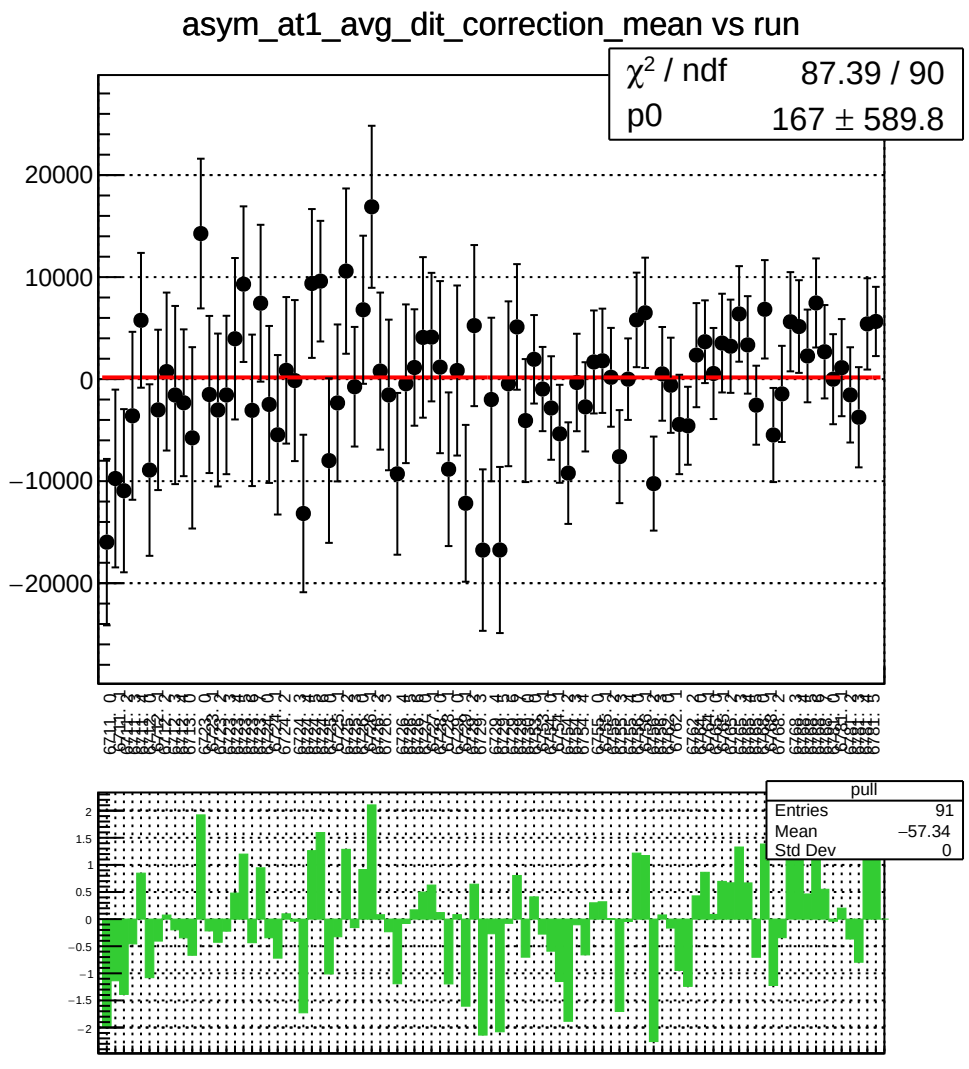

pull1D
Entries 91
Mean −0.03843
Std Dev 0.9858
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

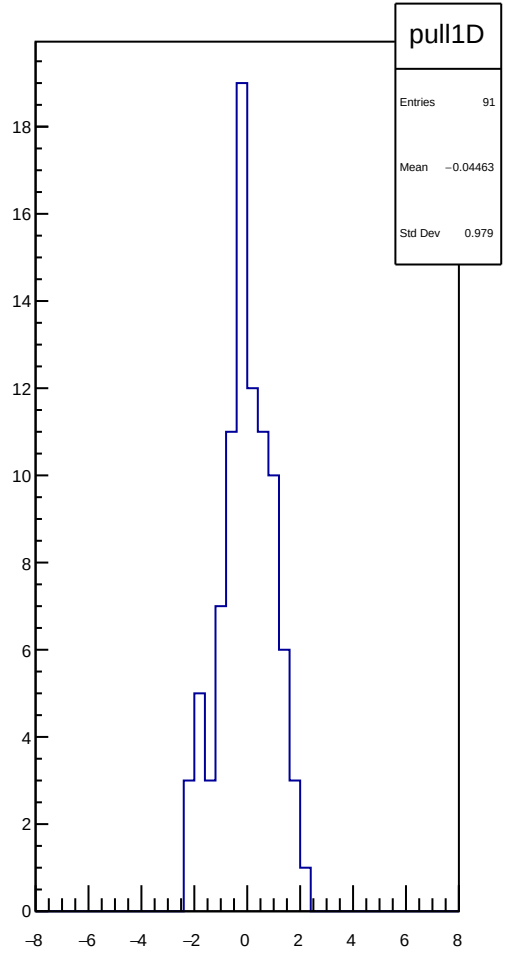

asym_at1_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 8.477e+04 / 90
p0 521 ± 0.3973
800
700
600
500
400

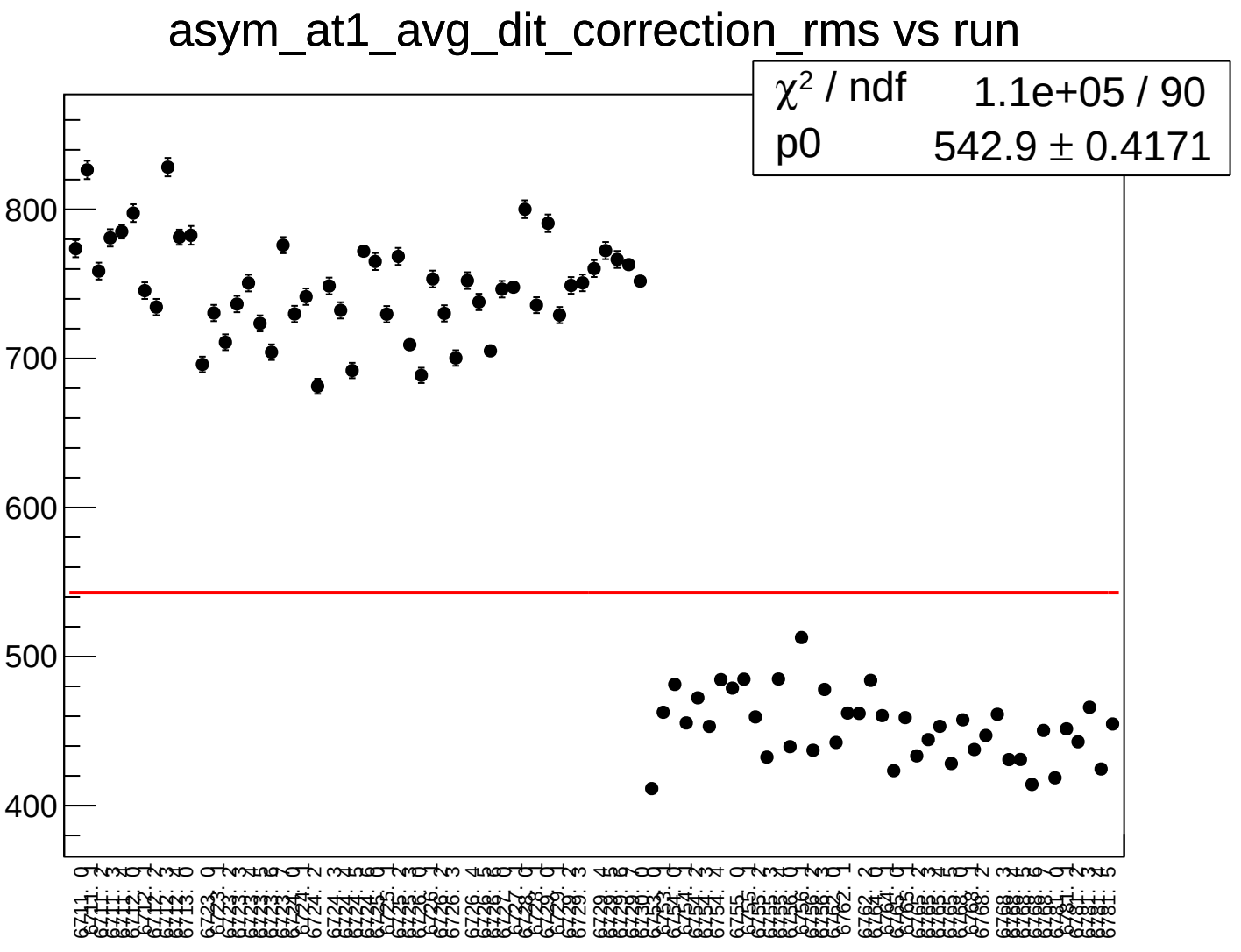

dit_asym_at1_avg_mean vs run
χ² / ndf 85.52 / 90
p0 −4017 ± 1905
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −78.88
Std Dev 0
2
1
0
−1
−2

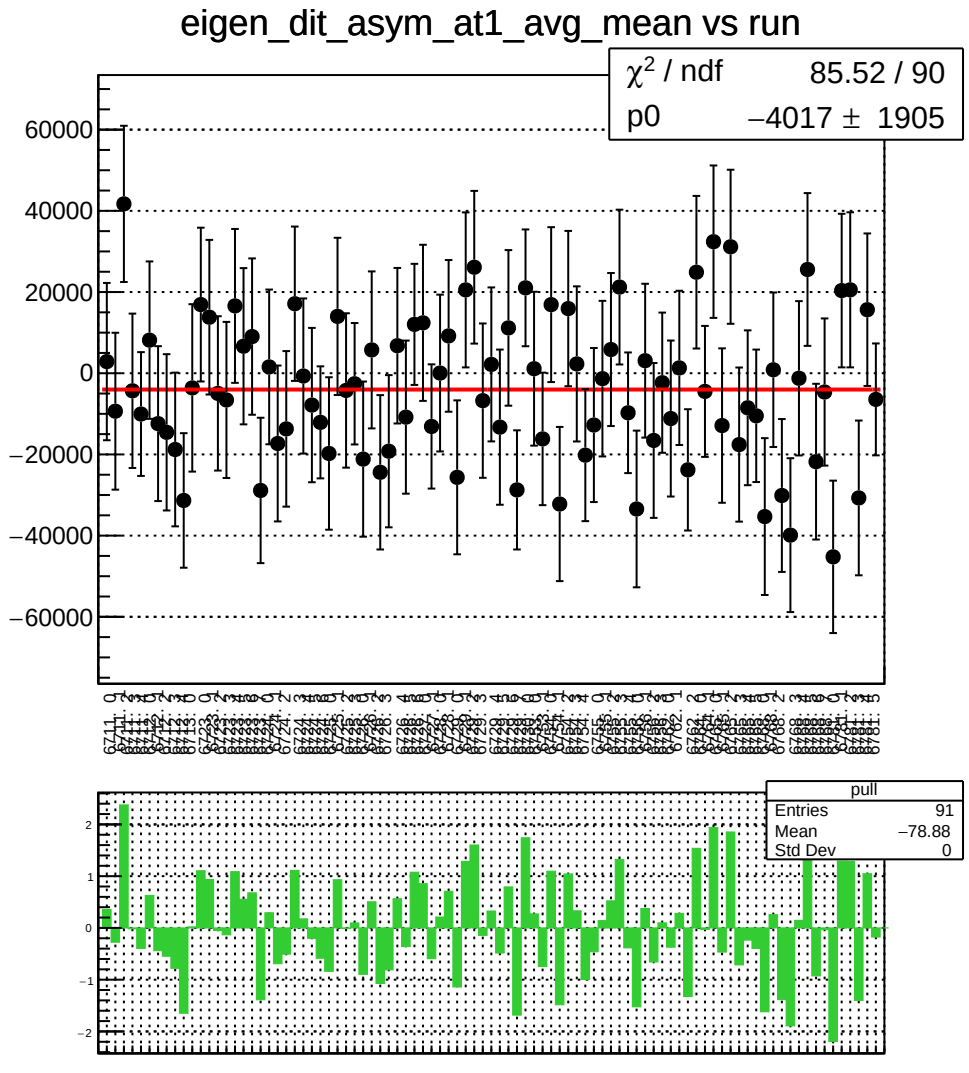

pull1D
Entries 91
Mean 0.01428
Std Dev 0.9693
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

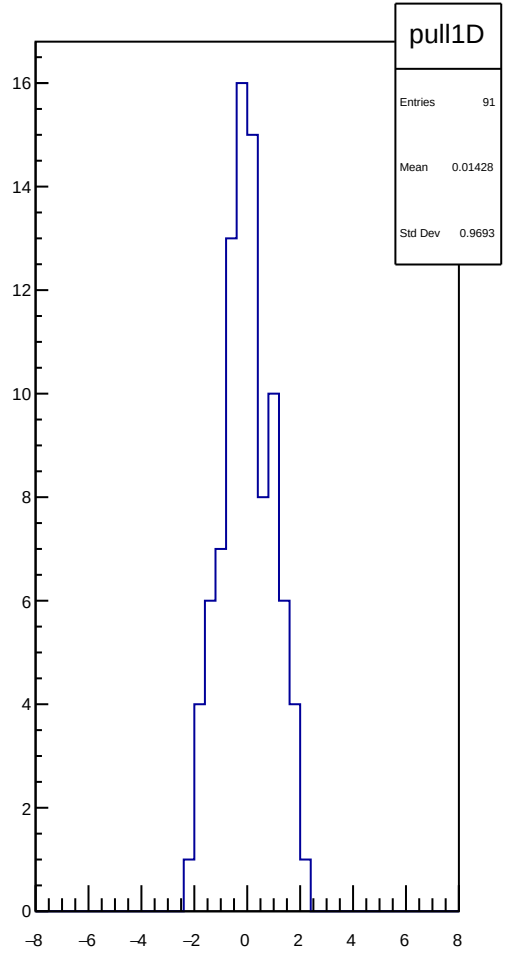

dit_asym_at1_avg_rms vs run
χ² / ndf 137.8 / 90
p0 1809 ± 1.347
1860
1840
1820
1800
1780
1760

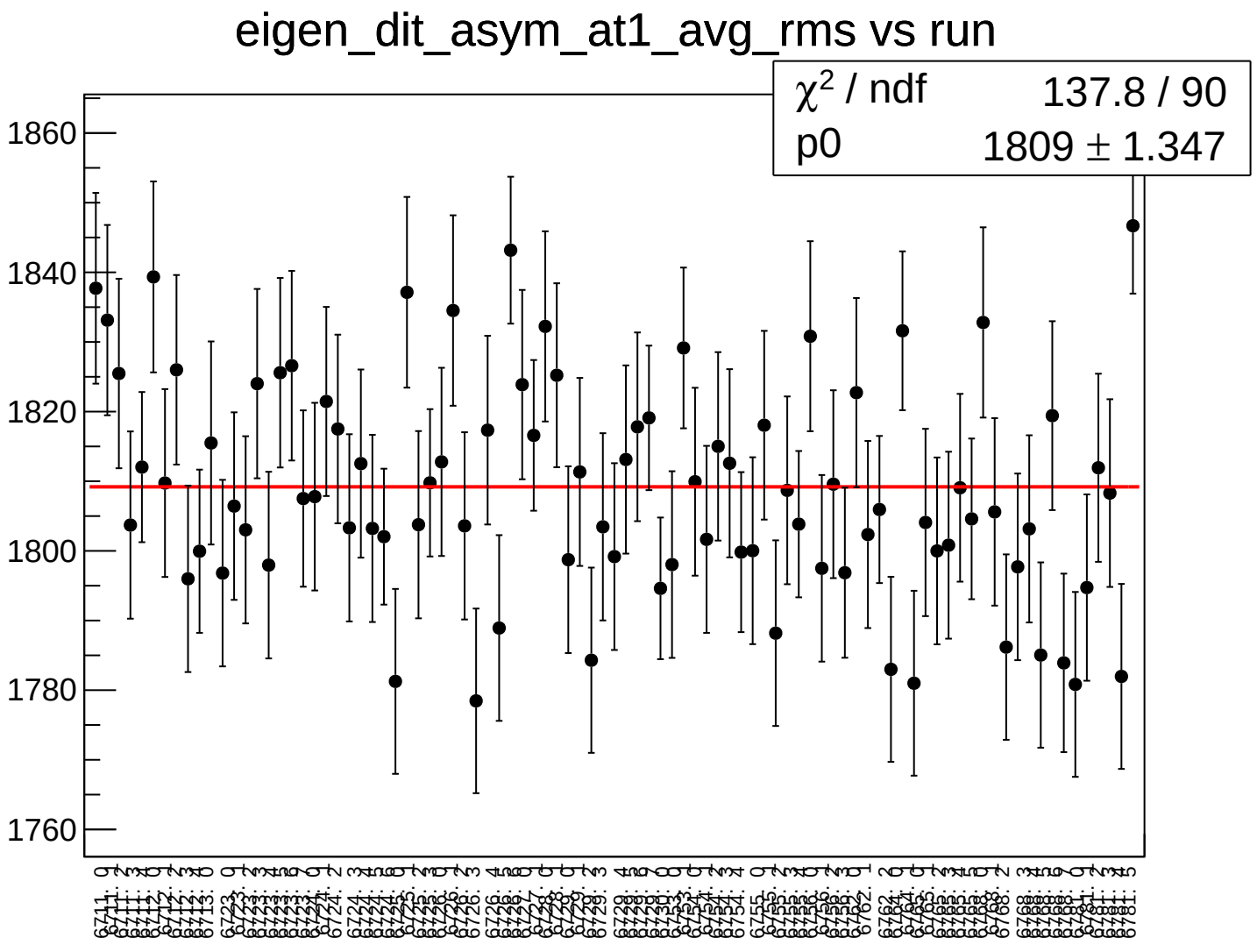

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 87.39 / 90
p0 167 ± 589.8
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −57.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

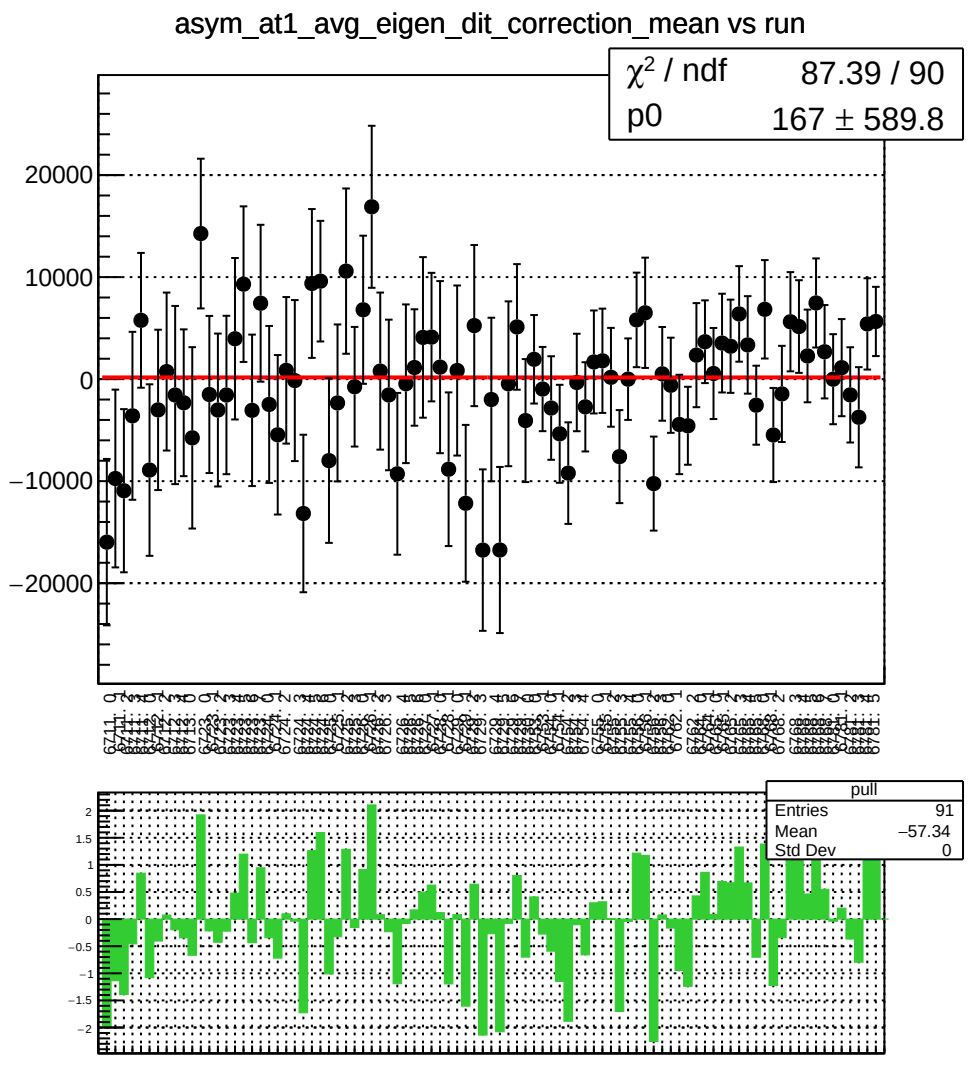

pull1D
Entries 91
Mean −0.04463
Std Dev 0.979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

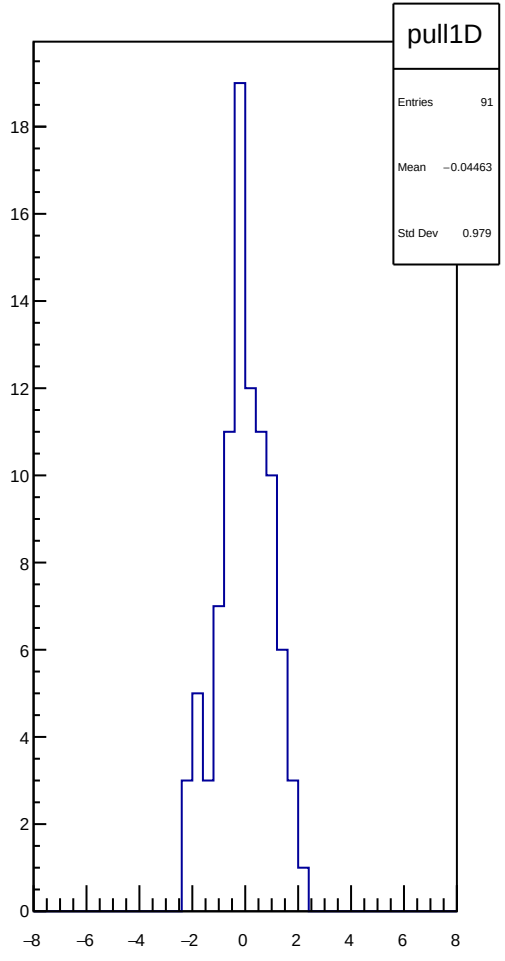

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 1.1e+05 / 90
p0 542.9 ± 0.4171
800
700
600
500
400

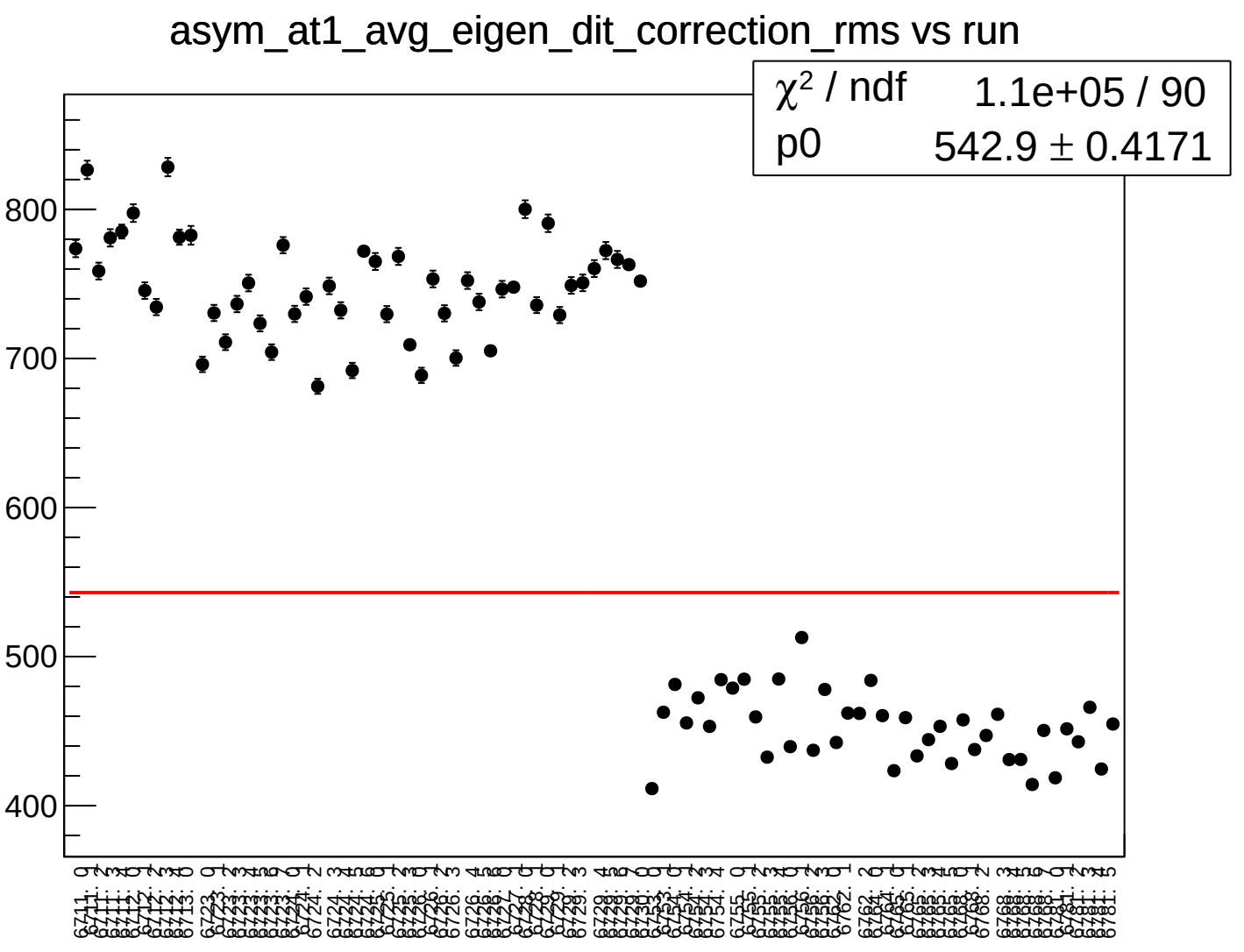

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 85.52 / 90
p0 −4017 ± 1905
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −78.88
Std Dev 0
2
1
0
−1
−2

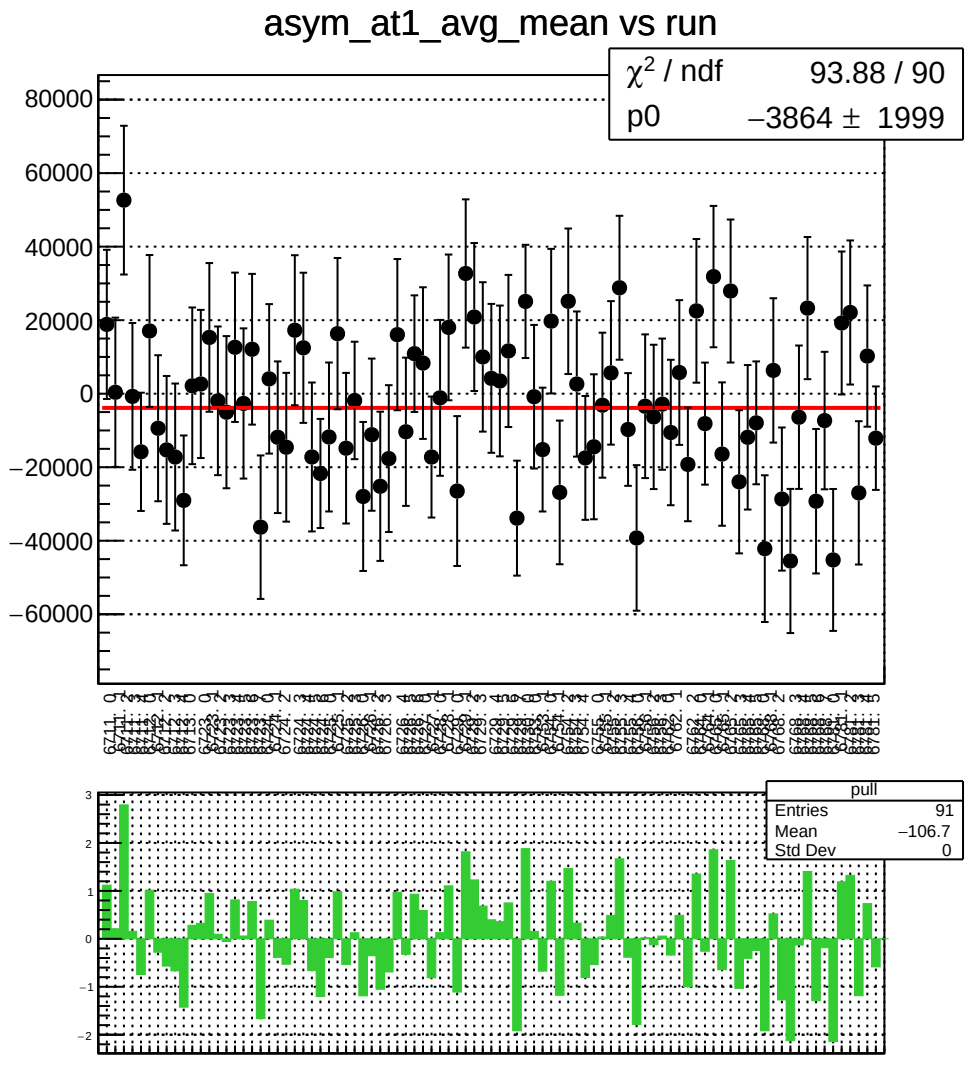

pull1D
Entries 91
Mean 0.01428
Std Dev 0.9693
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

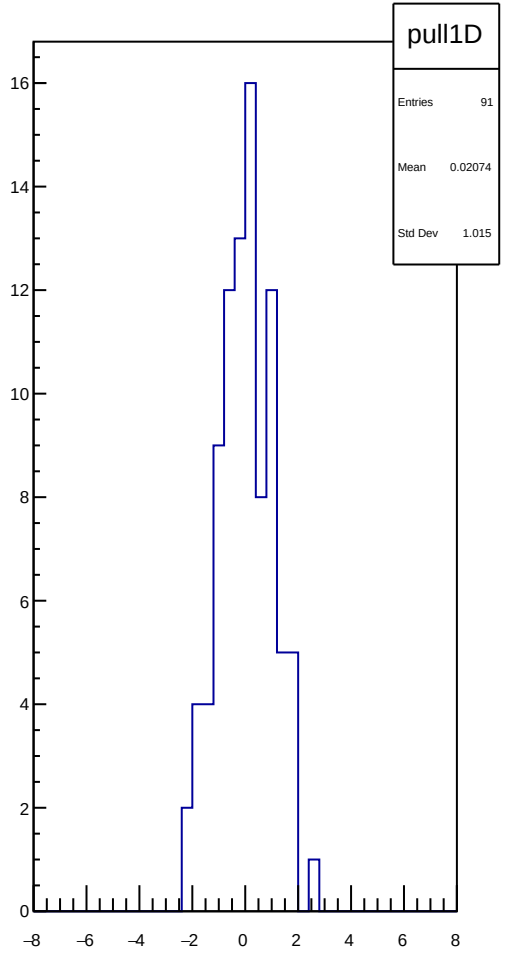

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 137.8 / 90
p0 1809 ± 1.347
1860
1840
1820
1800
1780
1760

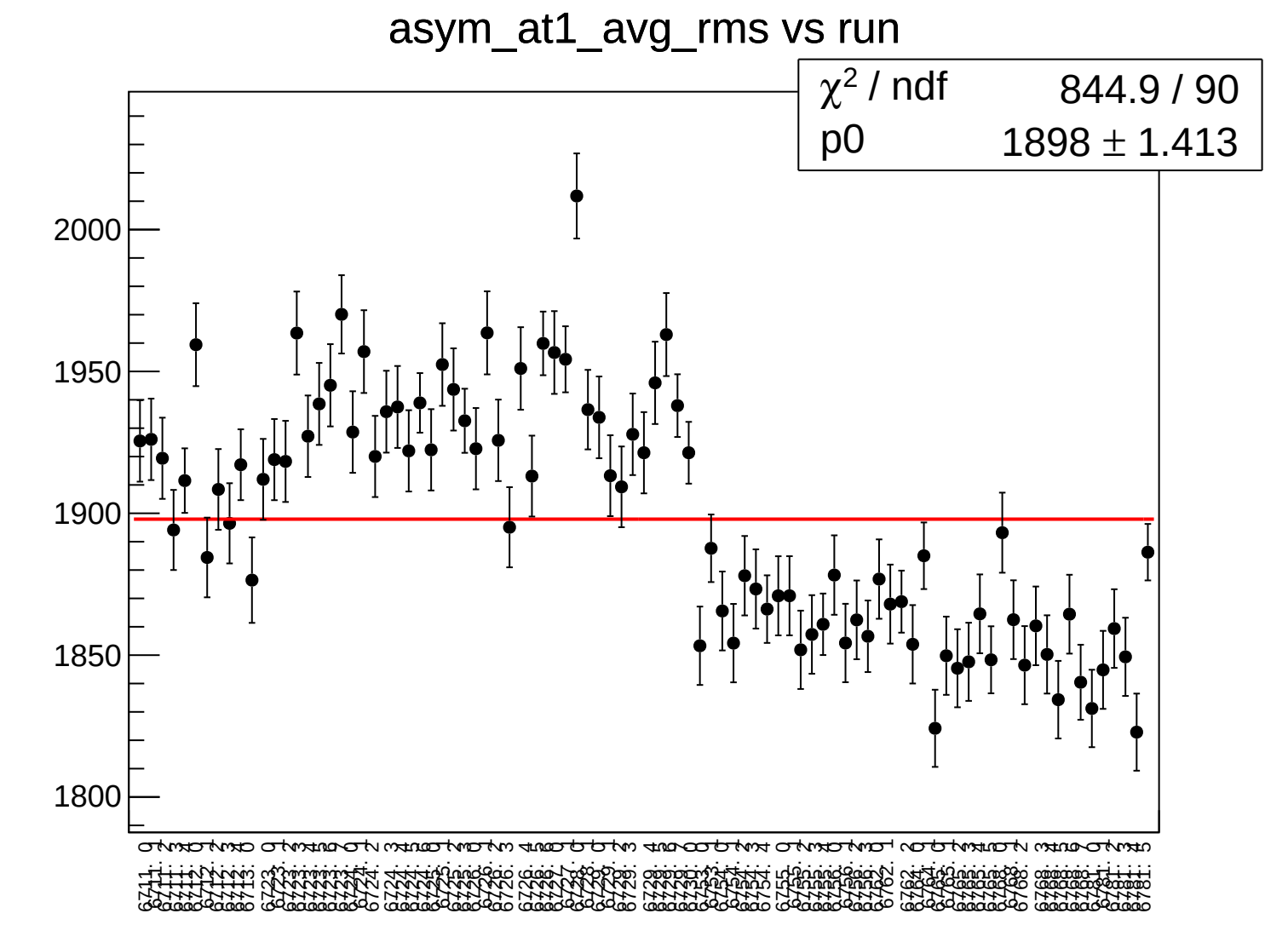

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.39 / 90
p0 167 ± 589.8
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −57.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

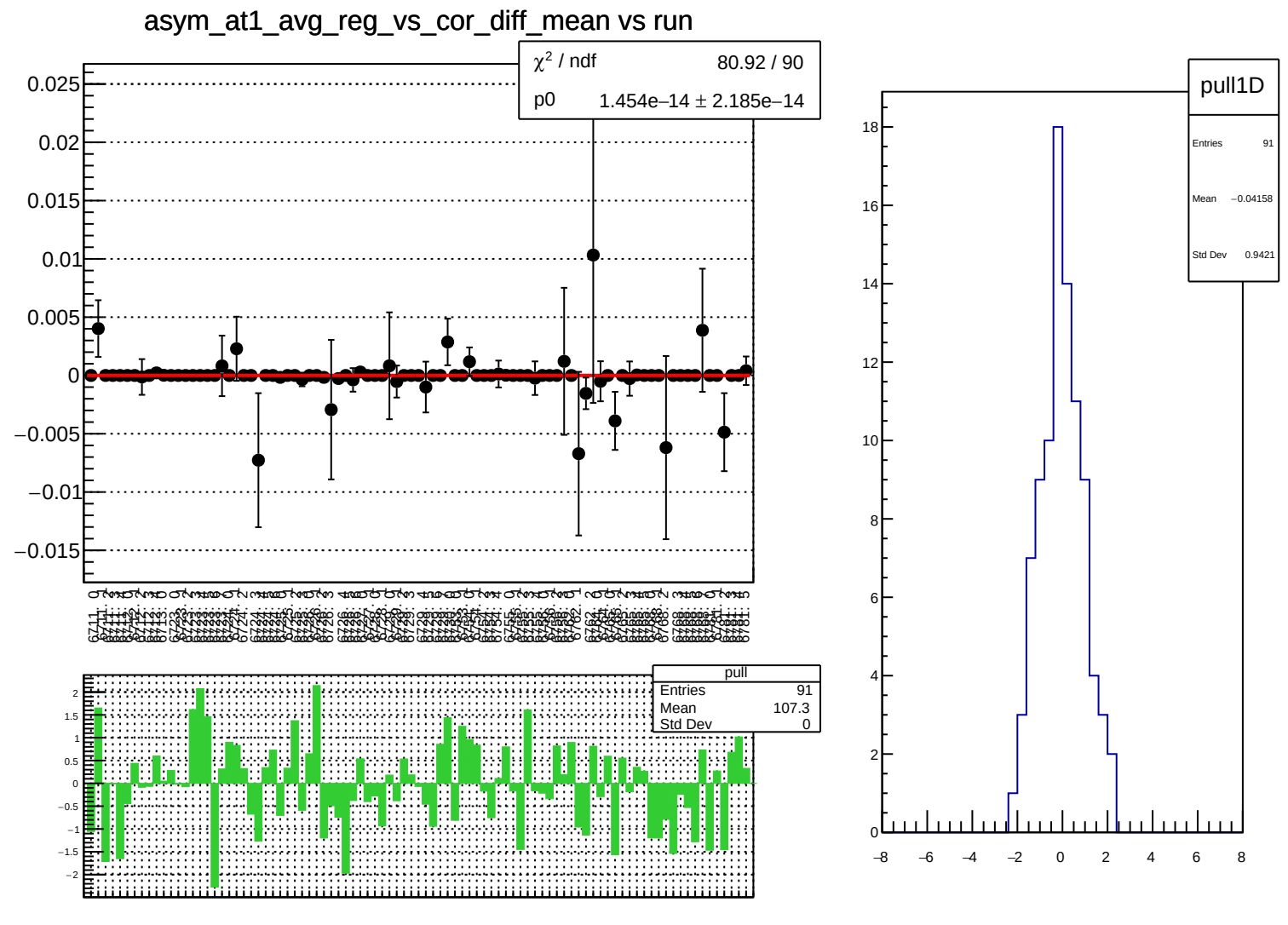

pull1D
Entries 91
Mean −0.04463
Std Dev 0.979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

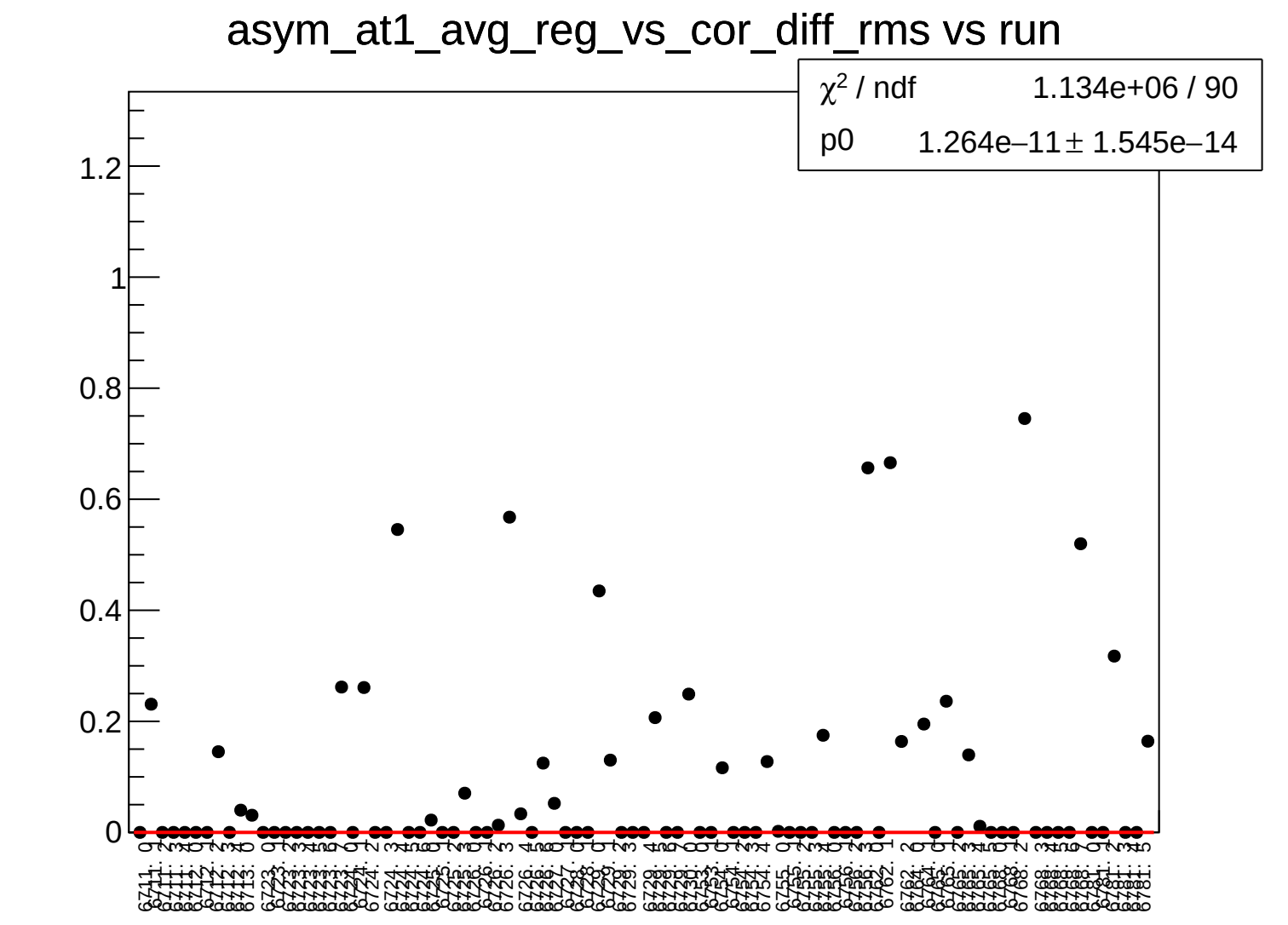

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.1e+05 / 90
p0 542.9 ± 0.4171
800
700
600
500
400

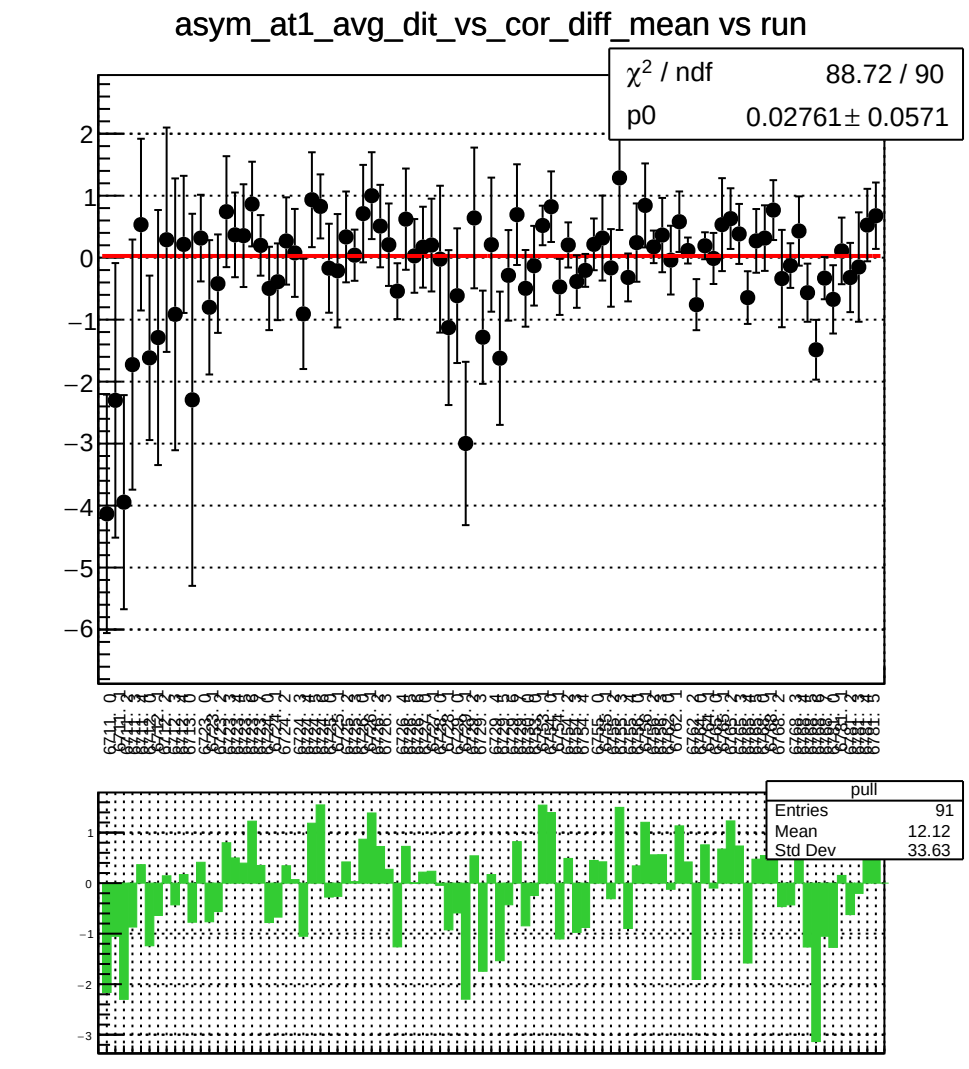

asym_at1_avg_mean vs run
χ² / ndf 93.88 / 90
p0 −3864 ± 1999
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −106.7
Std Dev 0
3
2
1
0
−1
−2

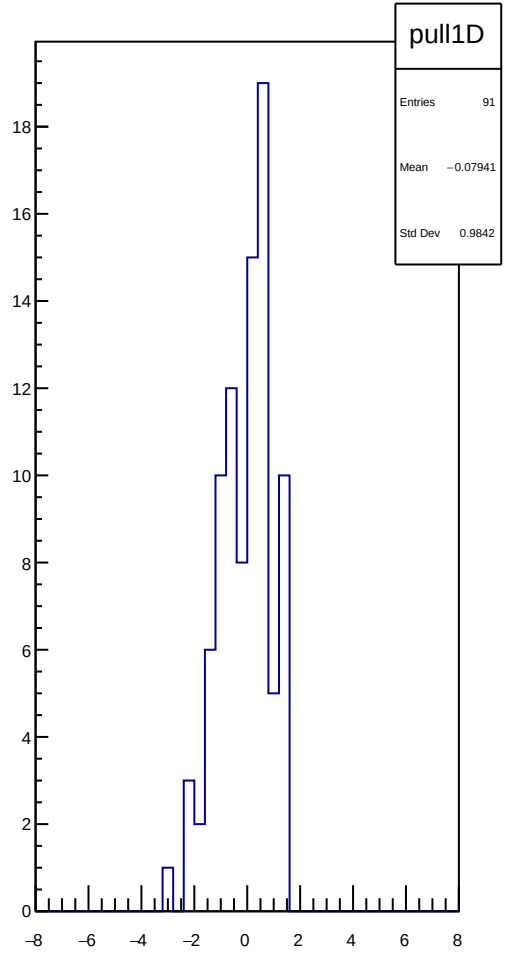

pull1D
Entries 91
Mean 0.02074
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

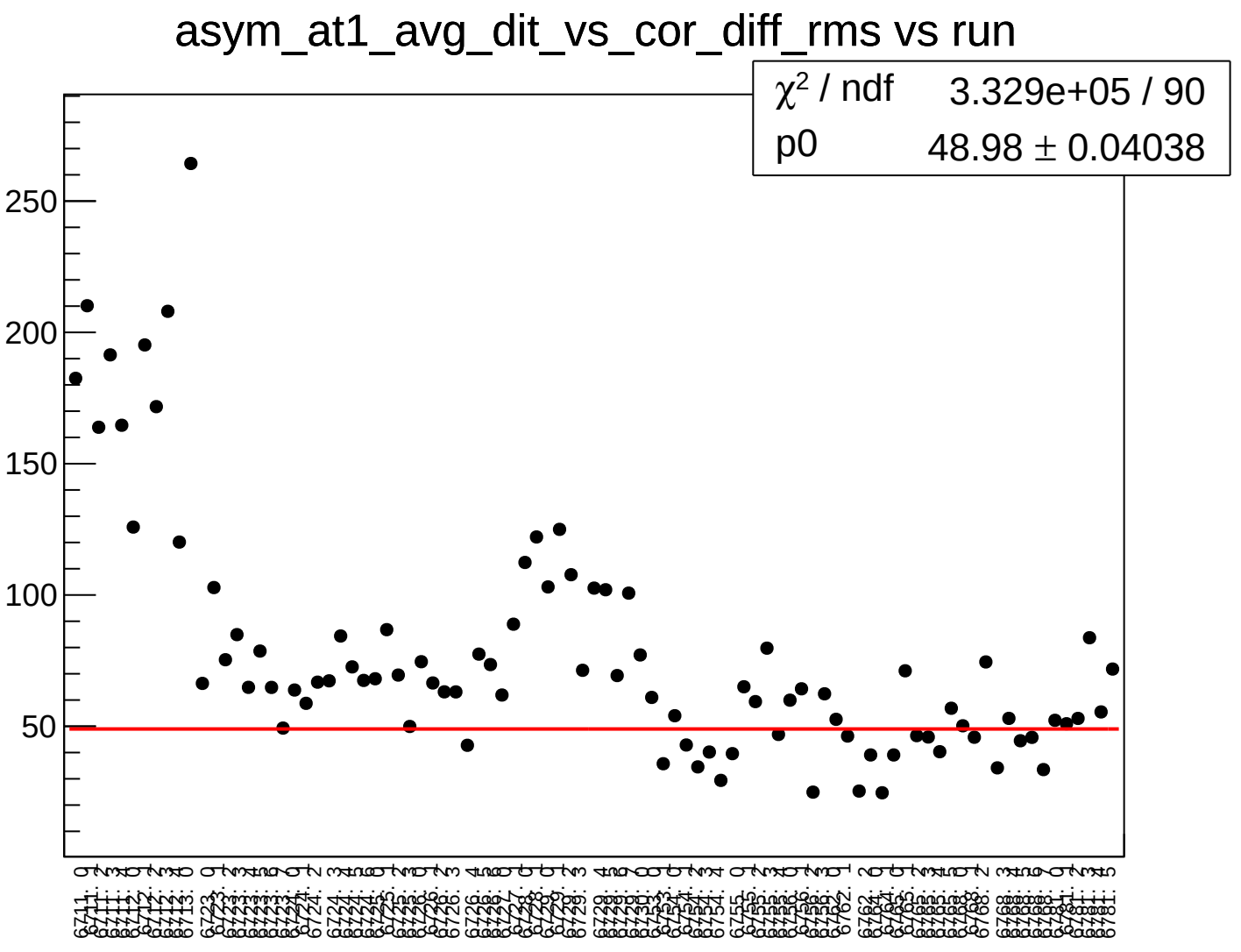

asym_at1_avg_rms vs run
χ² / ndf 844.9 / 90
p0 1898 ± 1.413
2000
1950
1900
1850
1800

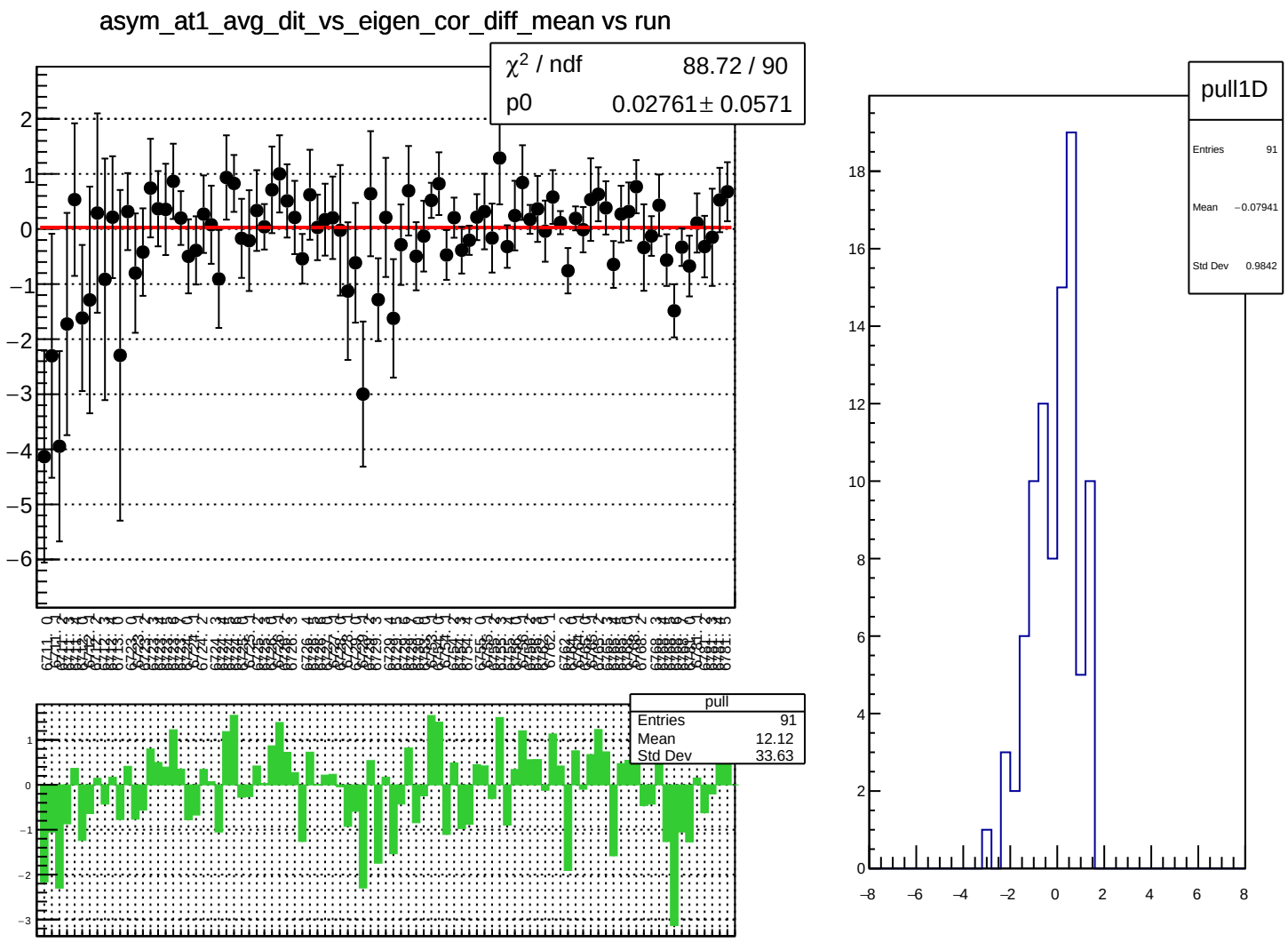

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.92 / 90
p0 1.454e−14 ± 2.185e−14
pull
Entries 91
Mean 107.3
Std Dev 0
pull1D
Entries 91
Mean −0.04158
Std Dev 0.9421

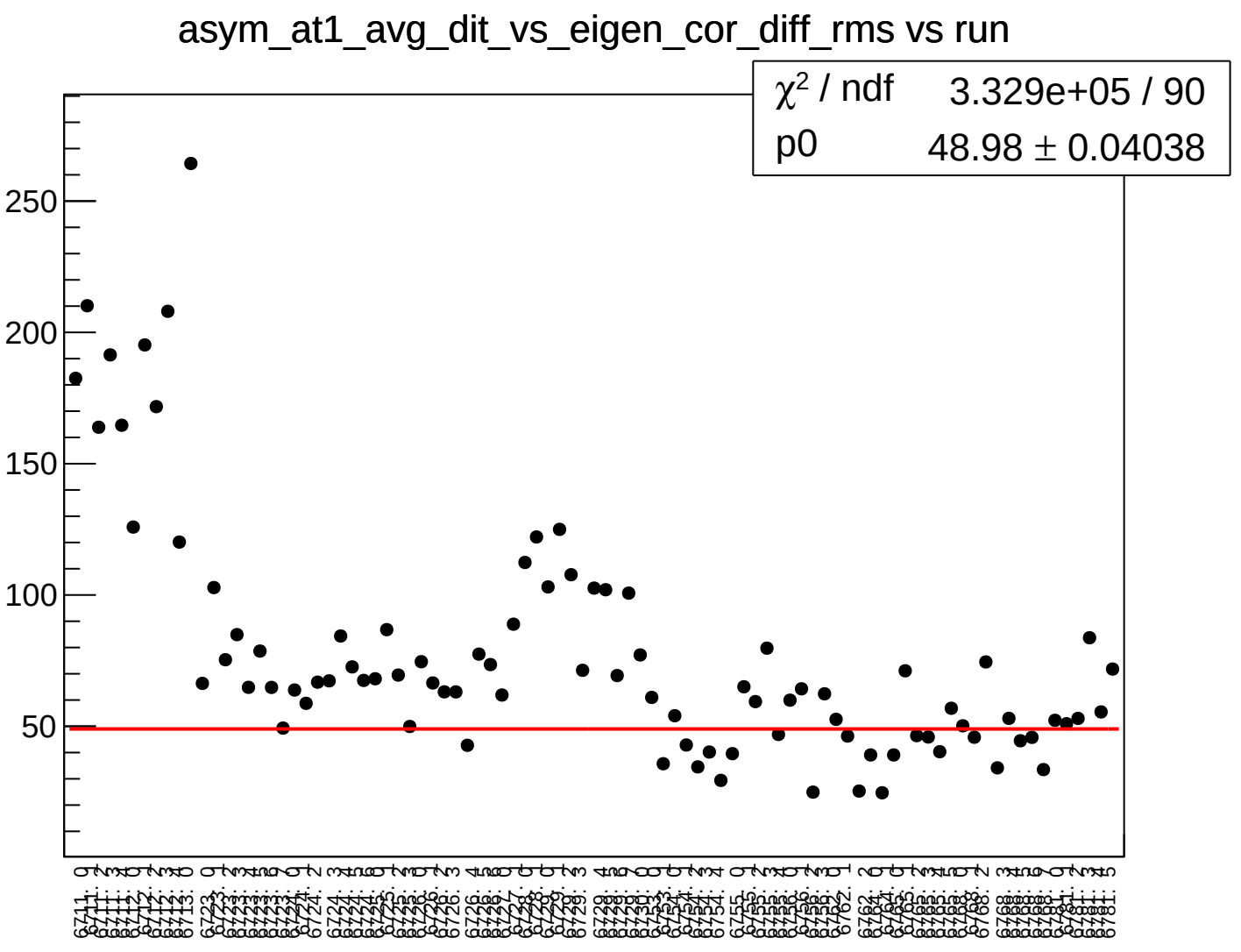

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.134e+06 / 90
p0 1.264e−11 ± 1.545e−14
1.2
1
0.8
0.6
0.4
0.2
0

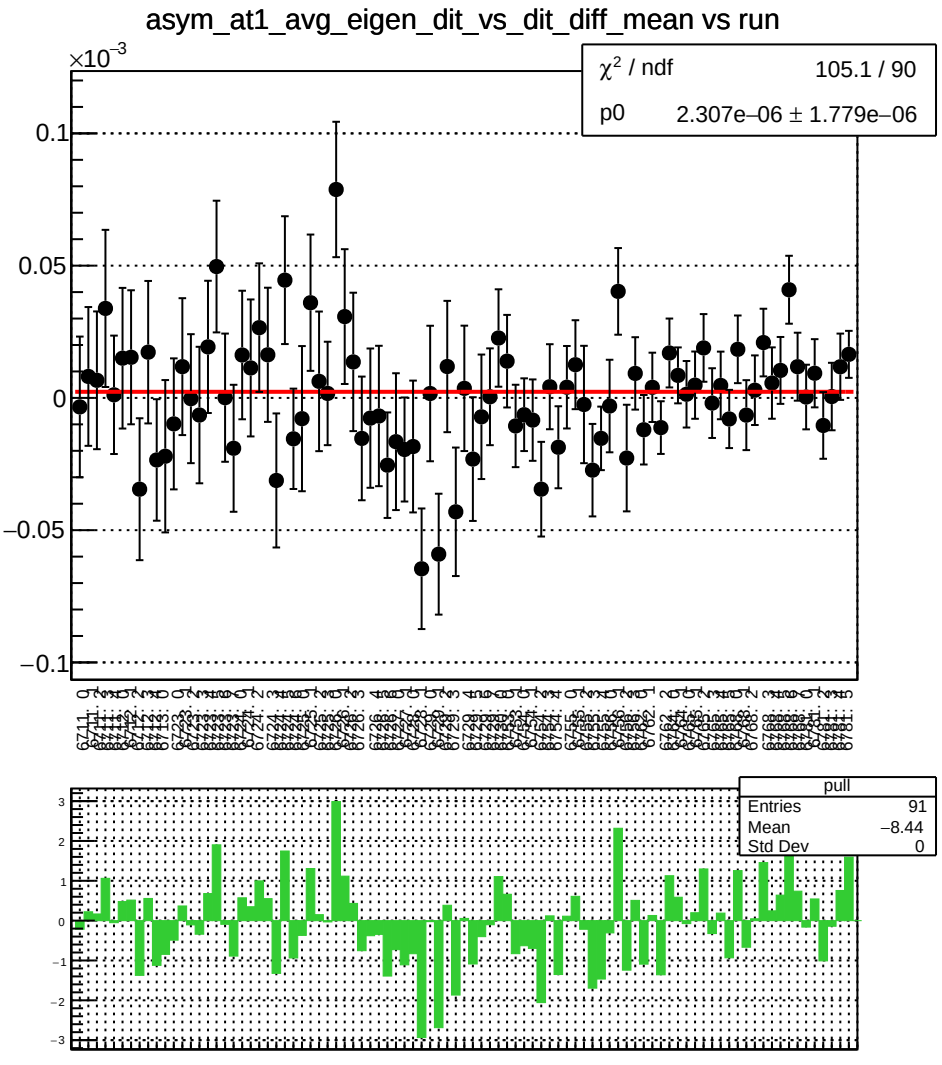

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.72 / 90
p0 0.02761 ± 0.0571
pull
Entries 91
Mean 12.12
Std Dev 33.63

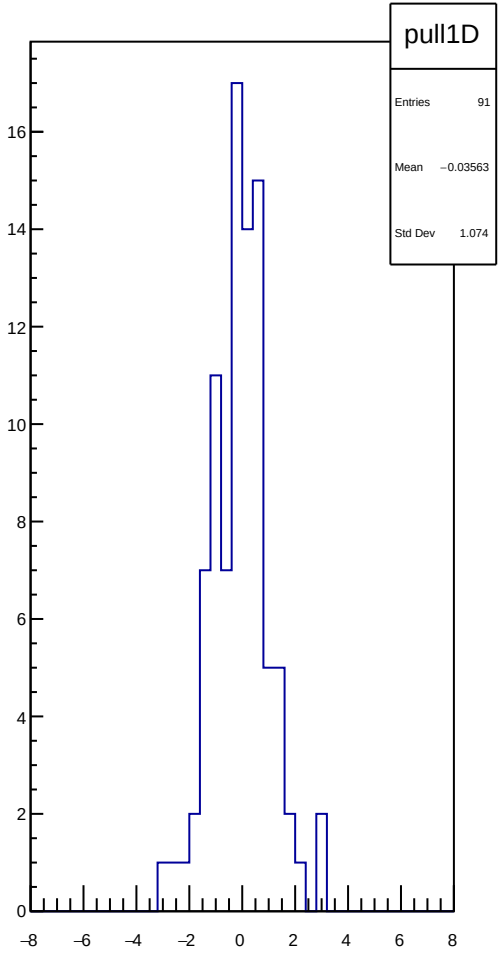

pull1D
Entries 91
Mean −0.07941
Std Dev 0.9842

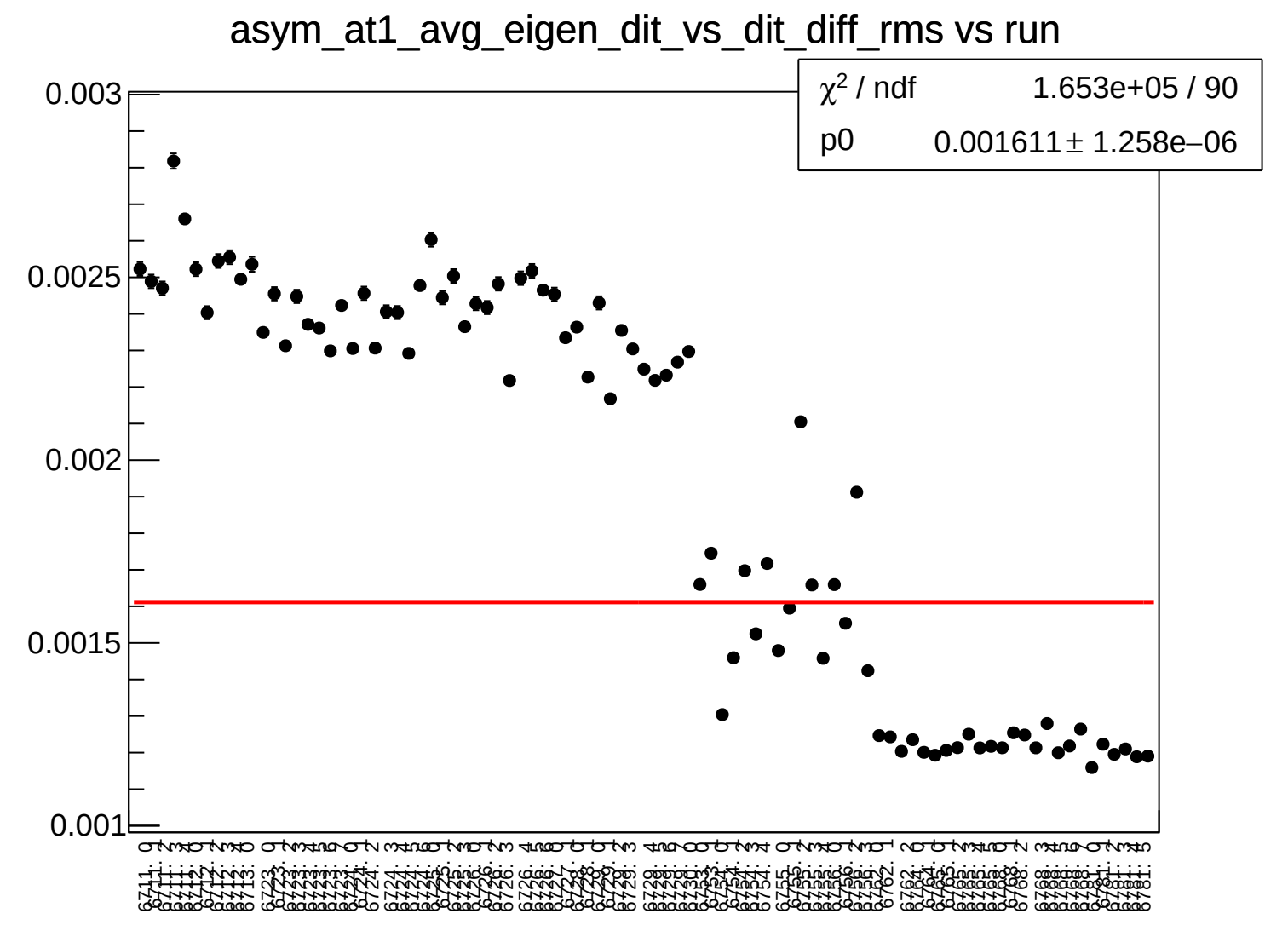

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.329e+05 / 90
p0 48.98 ± 0.04038
250
200
150
100
50

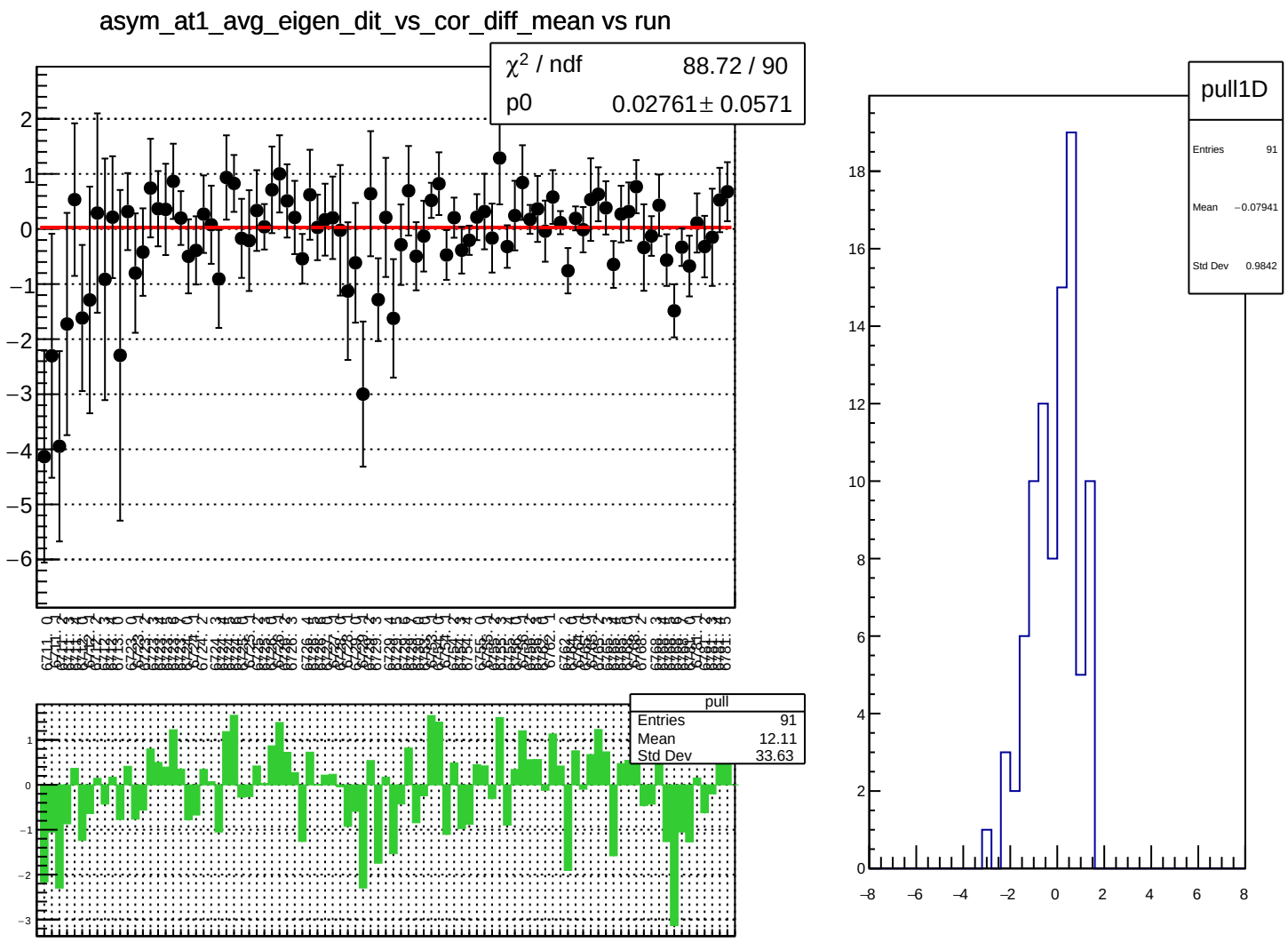

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.72 / 90
p0 0.02761 ± 0.0571
pull
Entries 91
Mean 12.12
Std Dev 33.63
pull1D
Entries 91
Mean −0.07941
Std Dev 0.9842

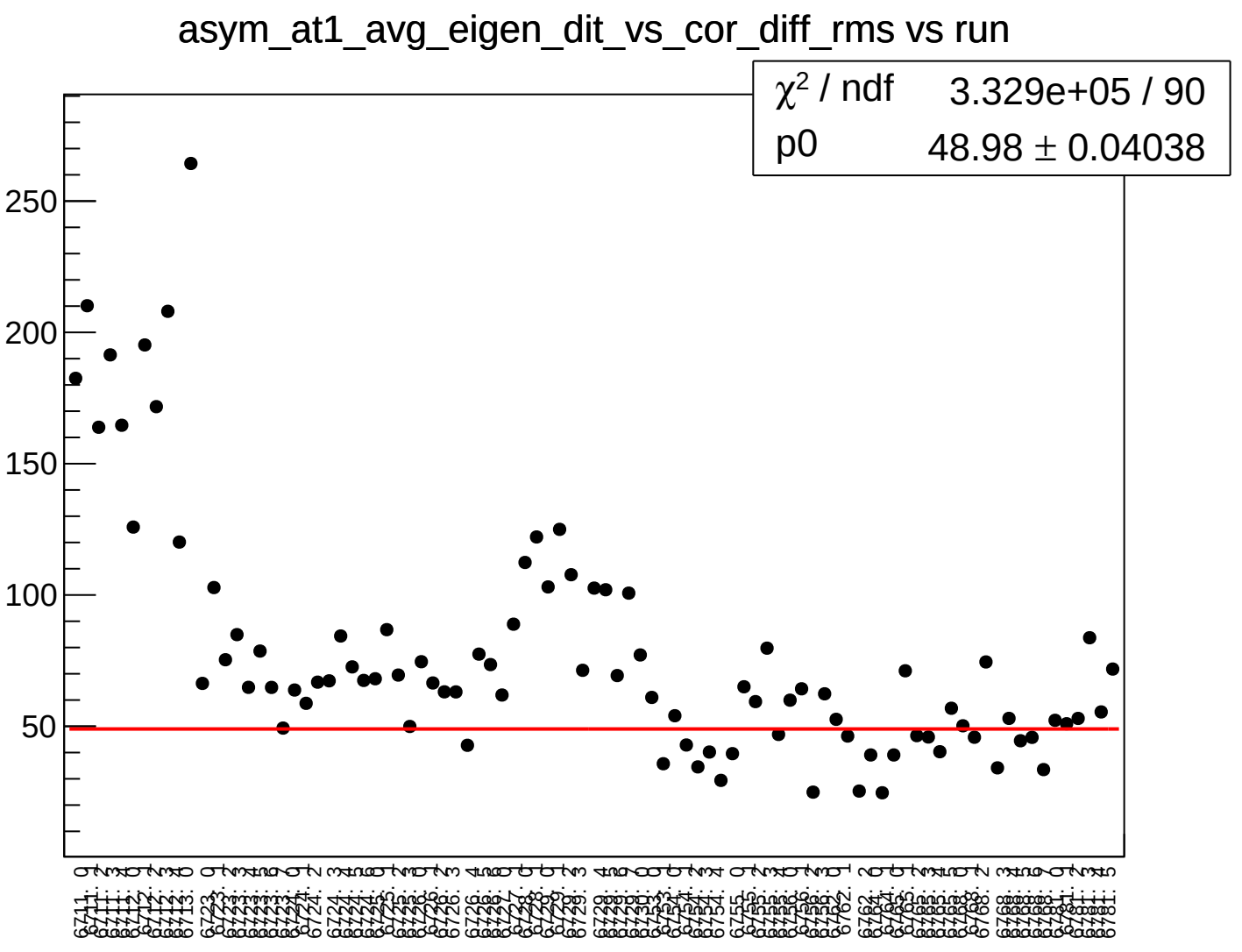

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.329e+05 / 90
p0 48.98 ± 0.04038
250
200
150
100
50

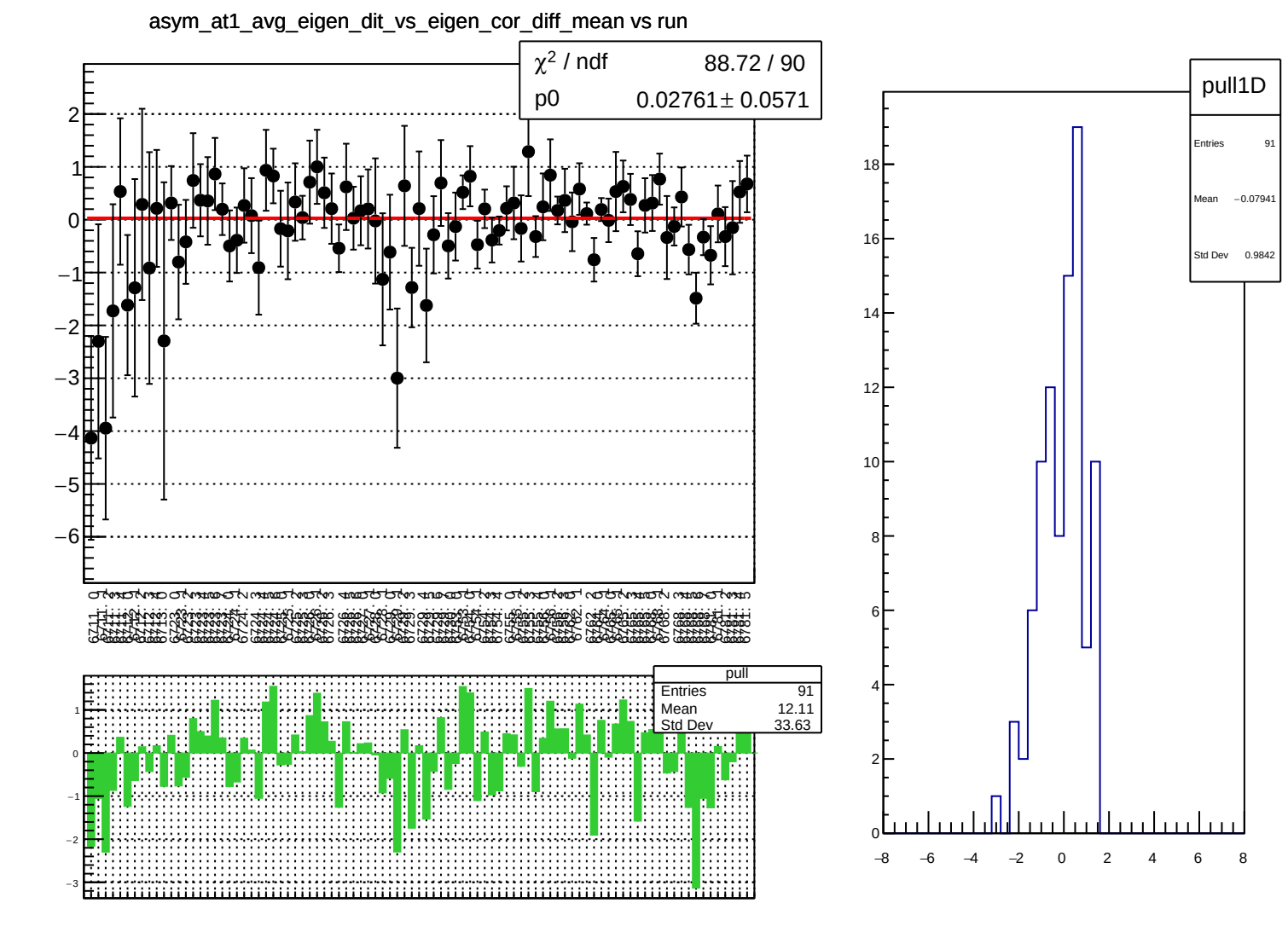

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.1 / 90
p0 2.307e−06 ± 1.779e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean −8.44
Std Dev 0
3
2
1
0
−1
−2
−3

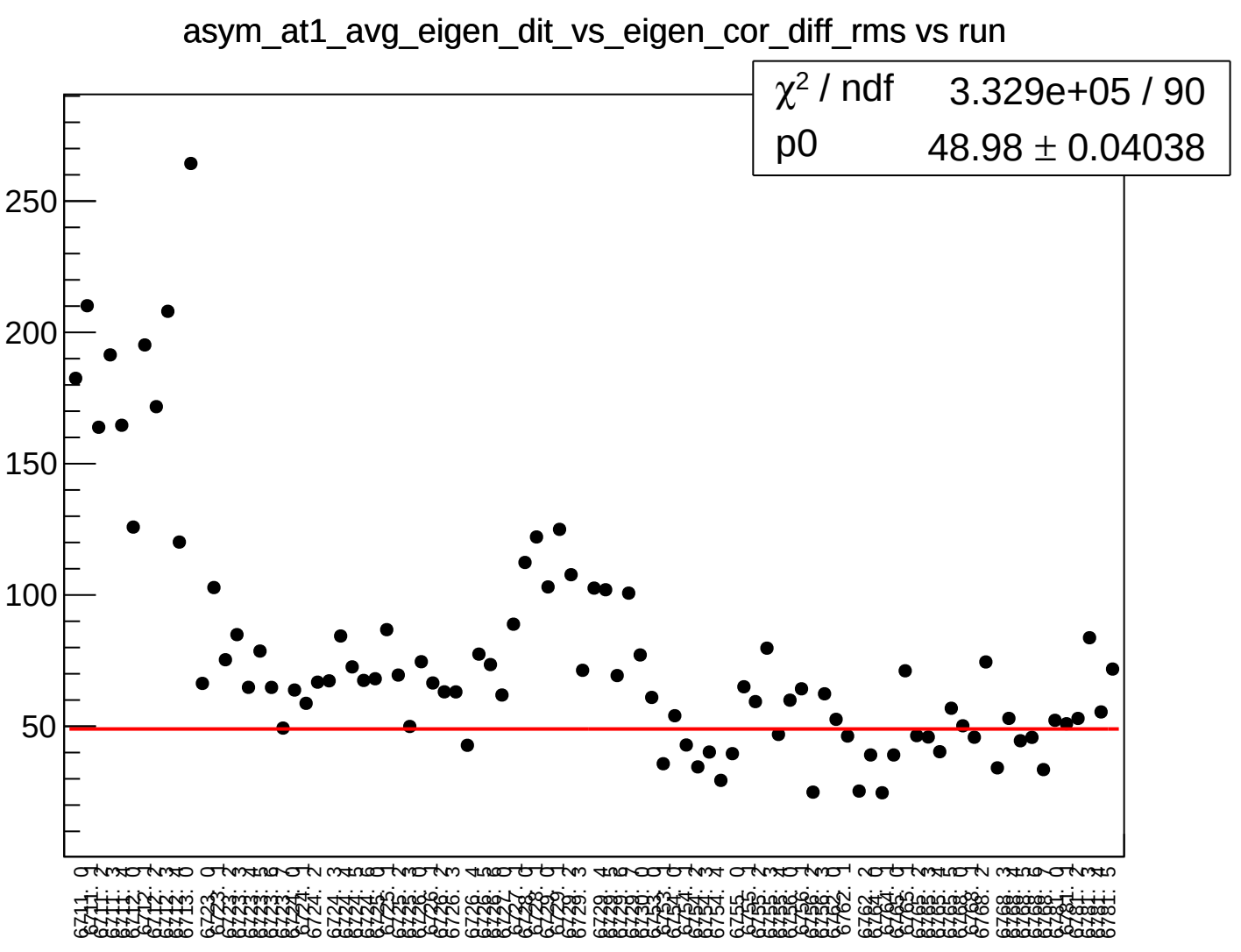

pull1D
Entries 91
Mean −0.03563
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

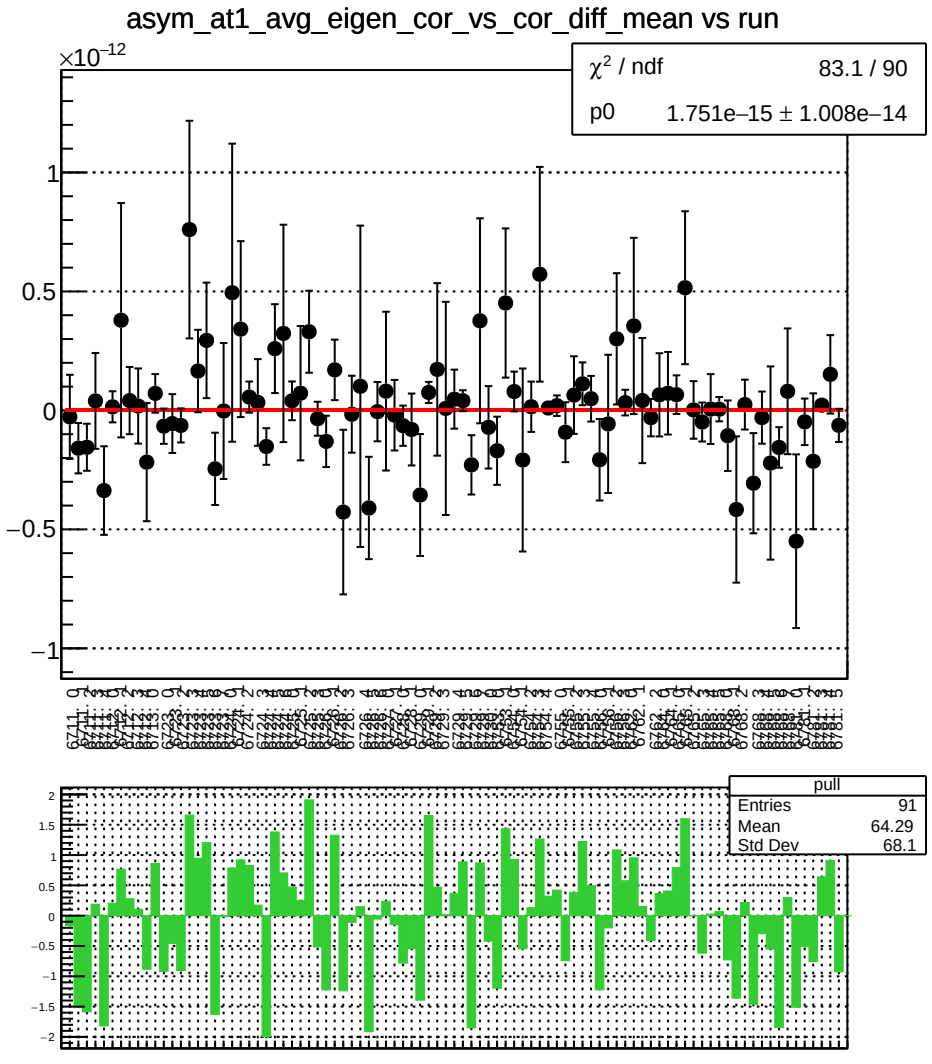

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.653e+05 / 90
p0 0.001611 ± 1.258e−06
0.003
0.0025
0.002
0.0015
0.001

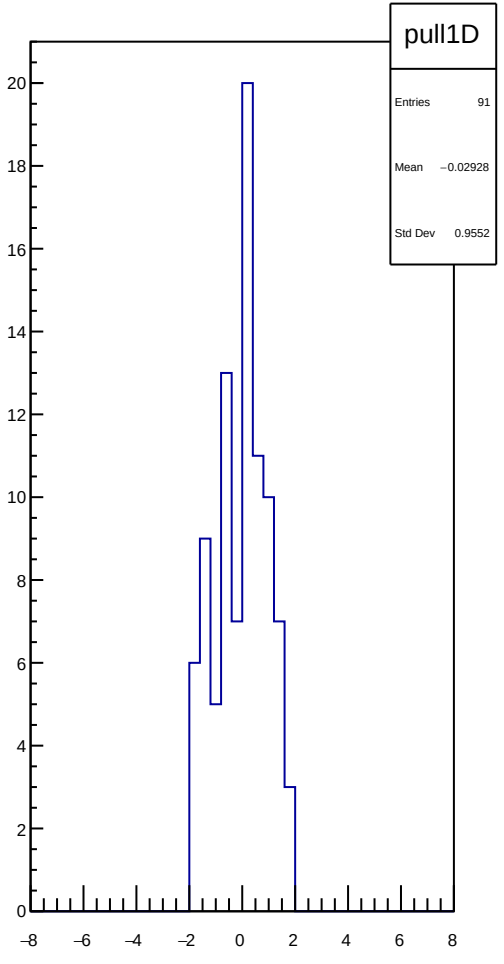

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.72 / 90
p0 0.02761 ± 0.0571
pull
Entries 91
Mean 12.11
Std Dev 33.63
pull1D
Entries 91
Mean −0.07941
Std Dev 0.9842

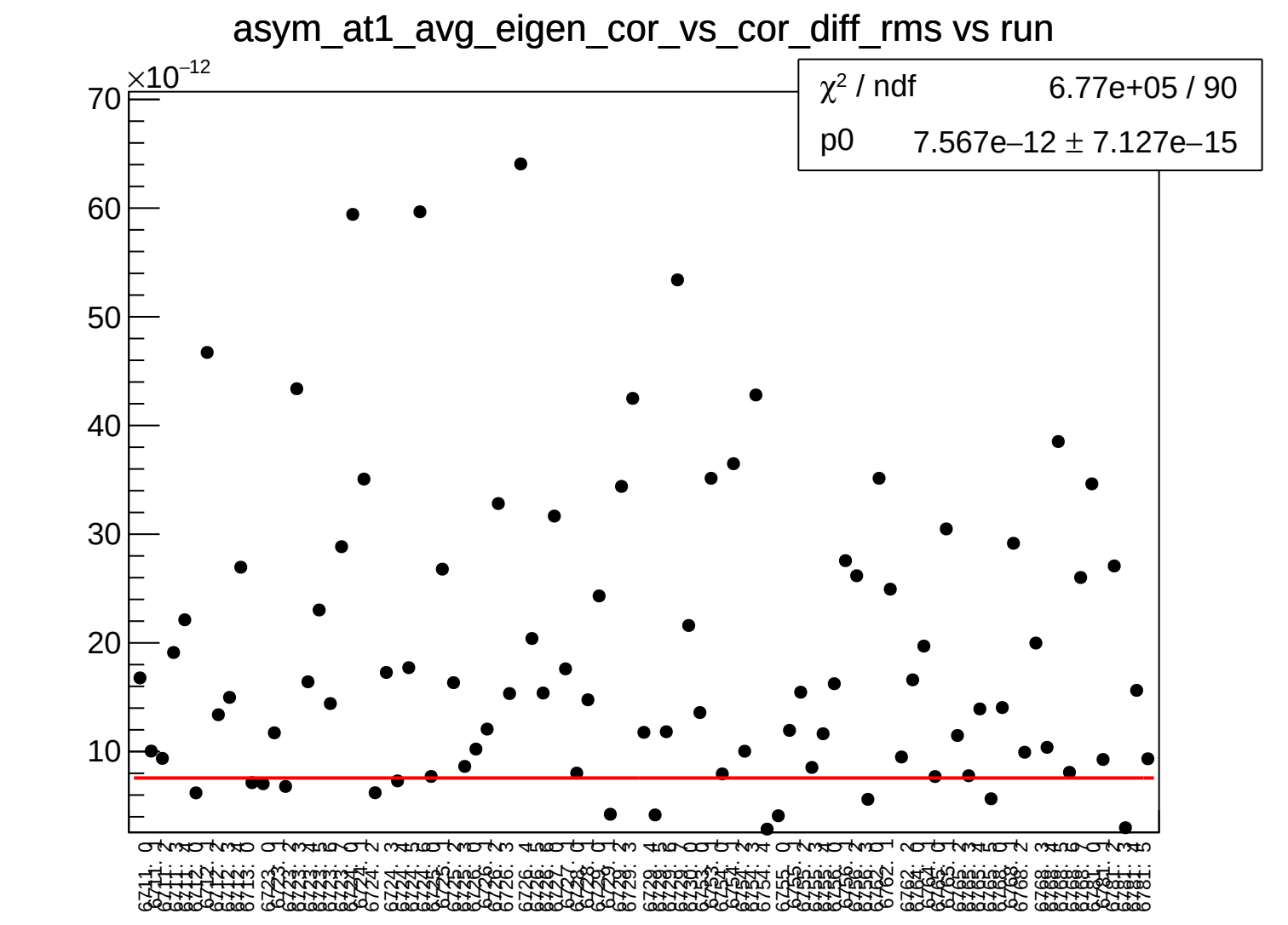

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.329e+05 / 90
p0 48.98 ± 0.04038
250
200
150
100
50

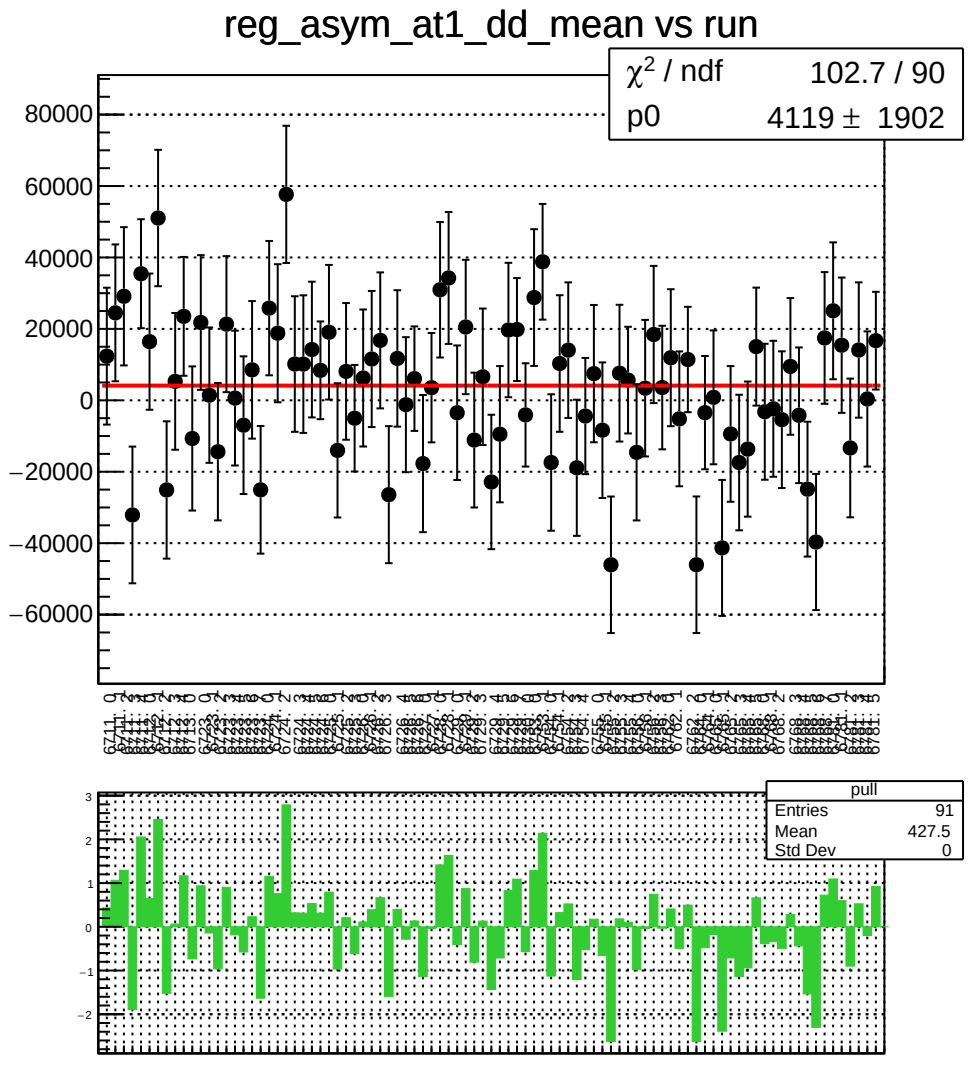

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.72 / 90
p0 0.02761 ± 0.0571
pull
Entries 91
Mean 12.11
Std Dev 33.63
pull1D
Entries 91
Mean −0.07941
Std Dev 0.9842

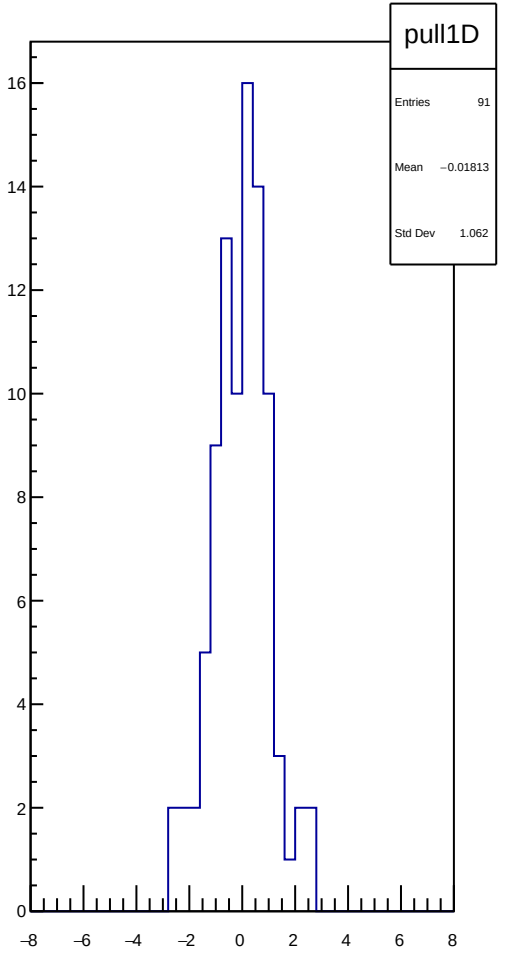

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.329e+05 / 90
p0 48.98 ± 0.04038
250
200
150
100
50

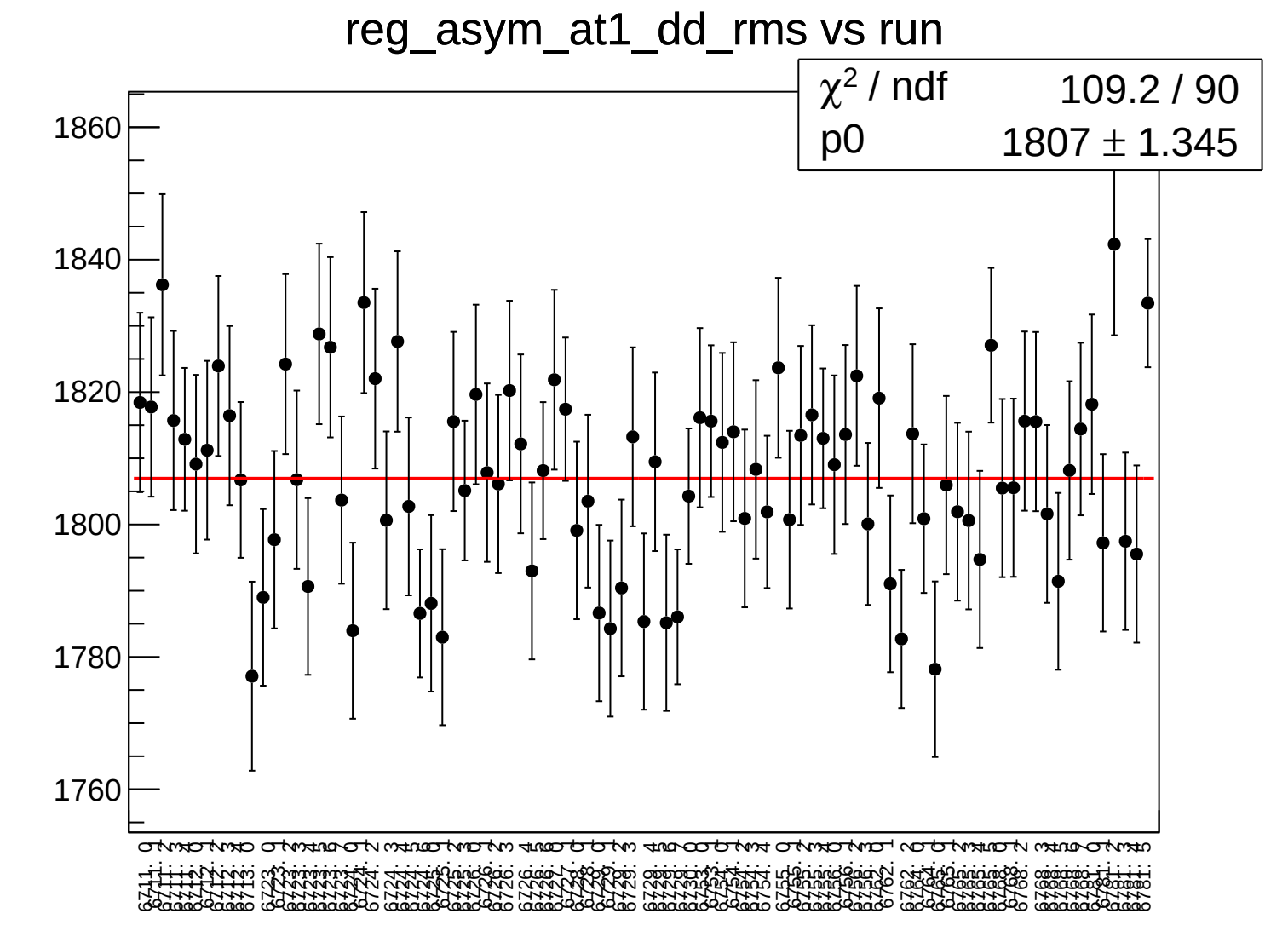

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.1 / 90
p0 1.751e−15 ± 1.008e−14
pull
Entries 91
Mean 64.29
Std Dev 68.1

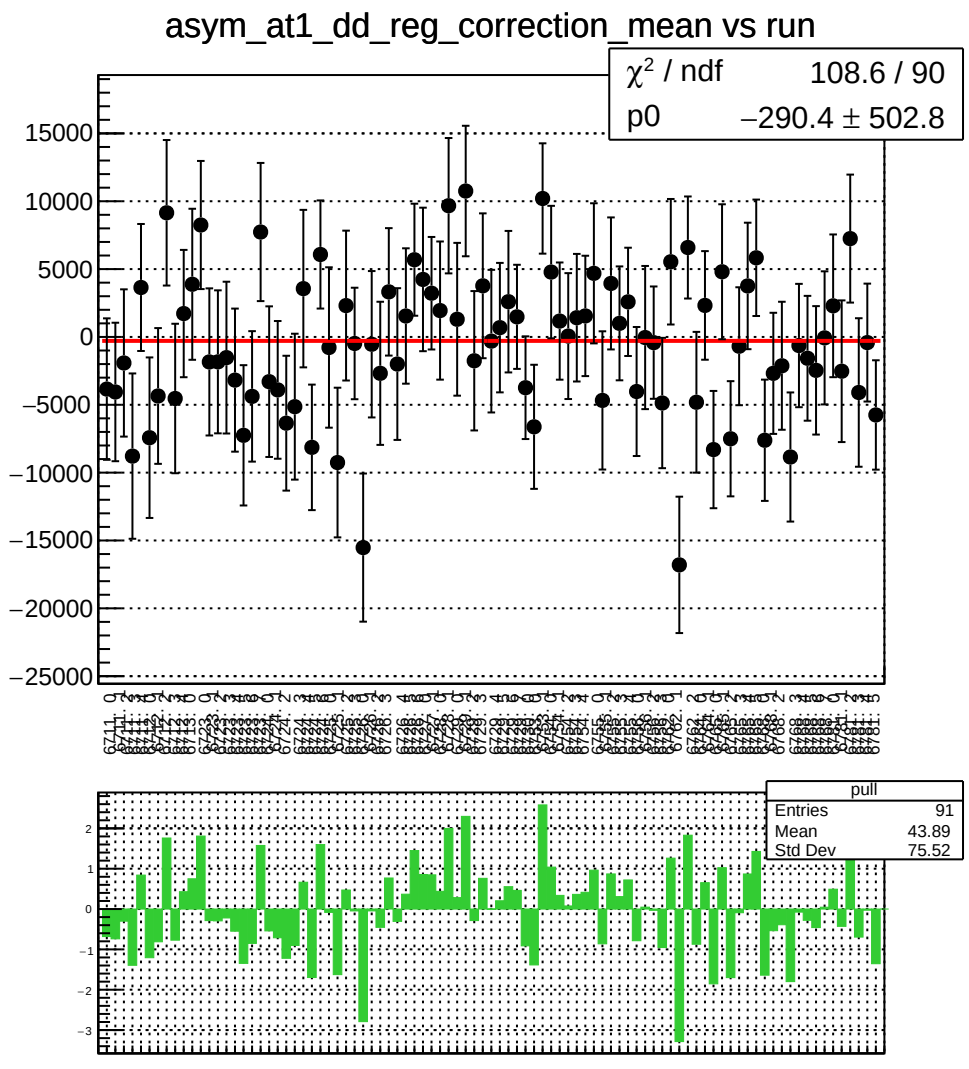

pull1D
Entries 91
Mean −0.02928
Std Dev 0.9552

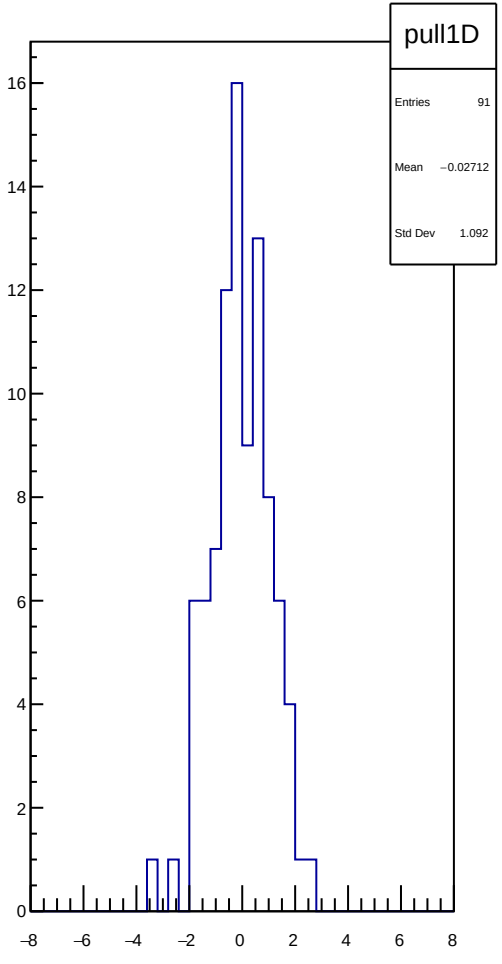

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 6.77e+05 / 90
p0 7.567e−12 ± 7.127e−15

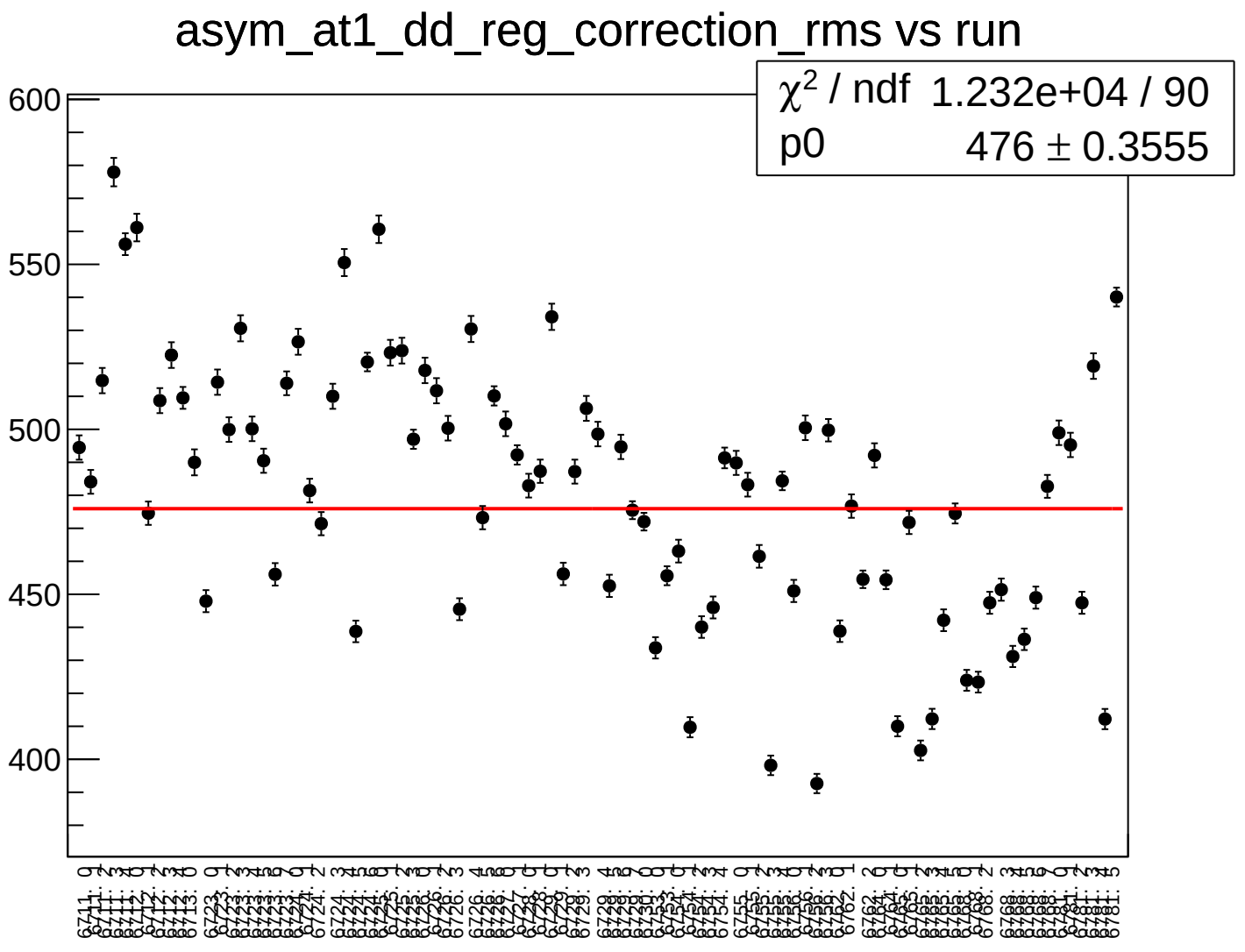

reg_asym_at1_dd_mean vs run
χ² / ndf 102.7 / 90
p0 4119 ± 1902
pull
Entries 91
Mean 427.5
Std Dev 0

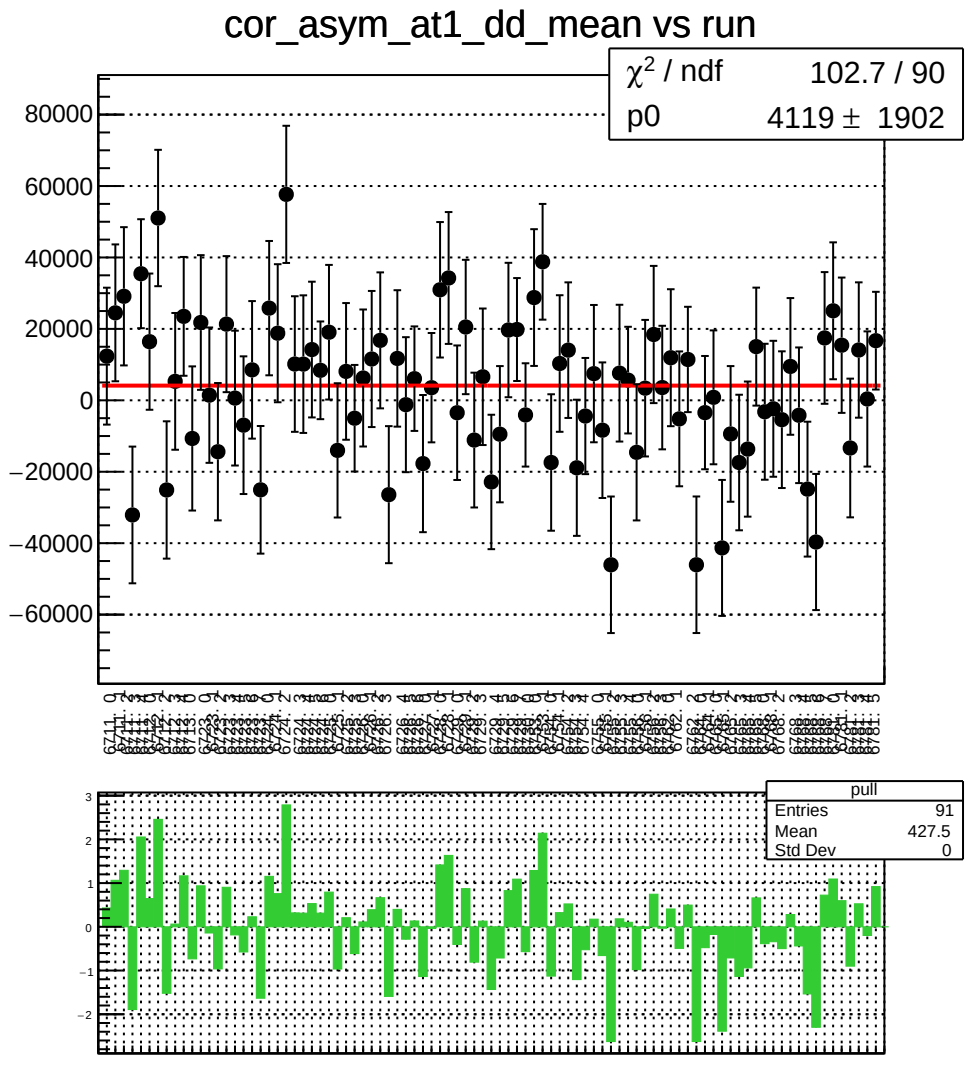

pull1D
Entries 91
Mean −0.01813
Std Dev 1.062

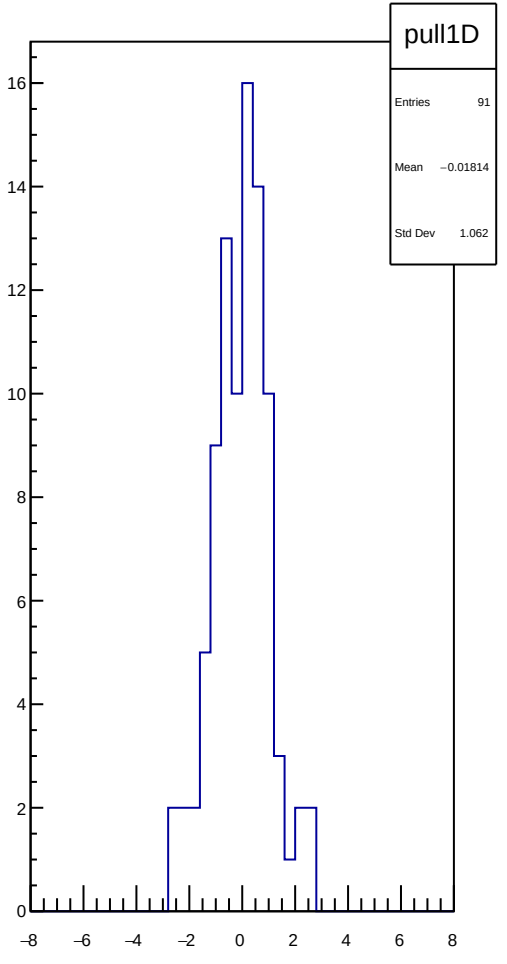

reg_asym_at1_dd_rms vs run
χ² / ndf 109.2 / 90
p0 1807 ± 1.345
1860
1840
1820
1800
1780
1760

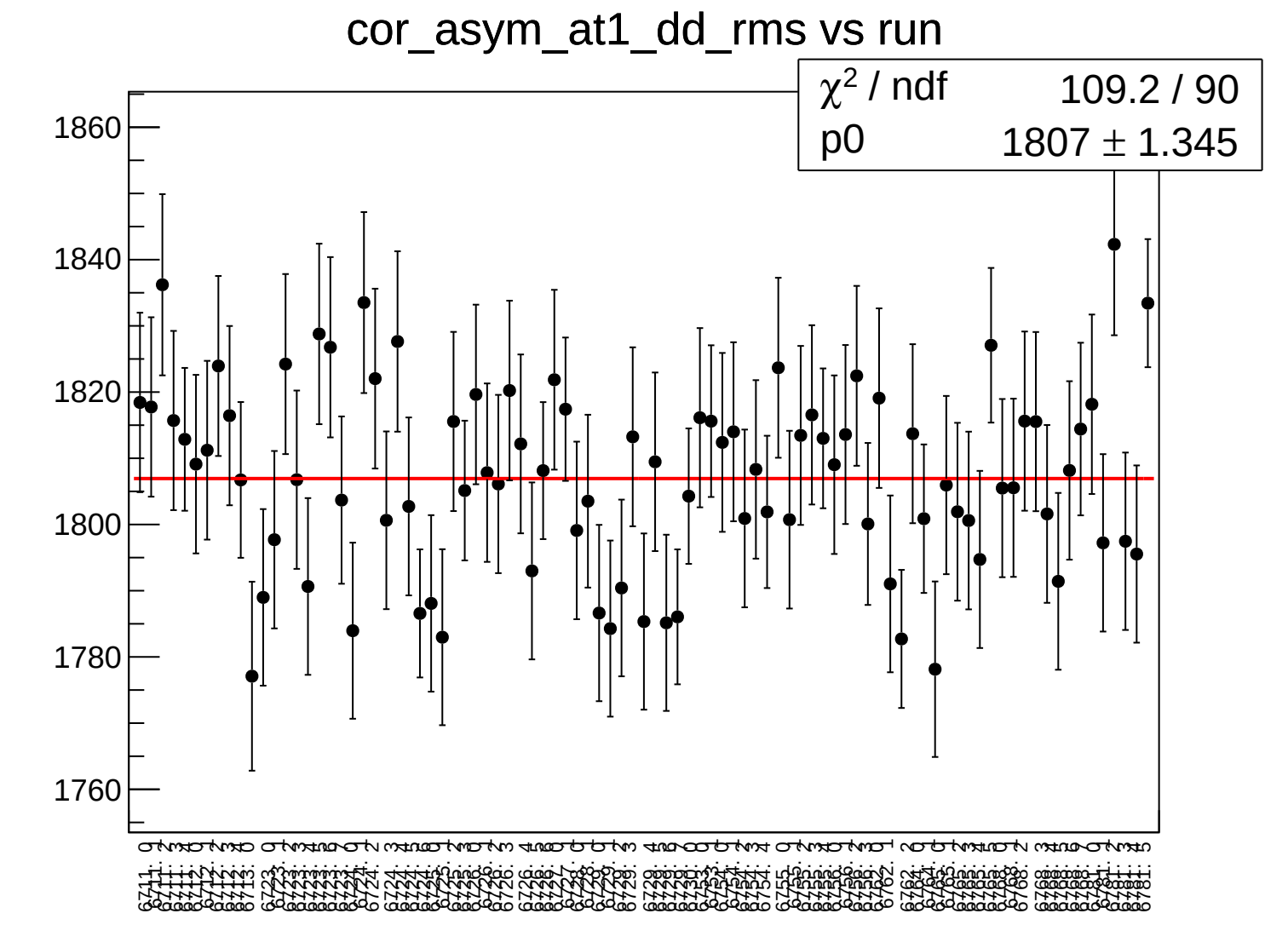

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 108.6 / 90
p0 −290.4 ± 502.8
pull
Entries 91
Mean 43.89
Std Dev 75.52

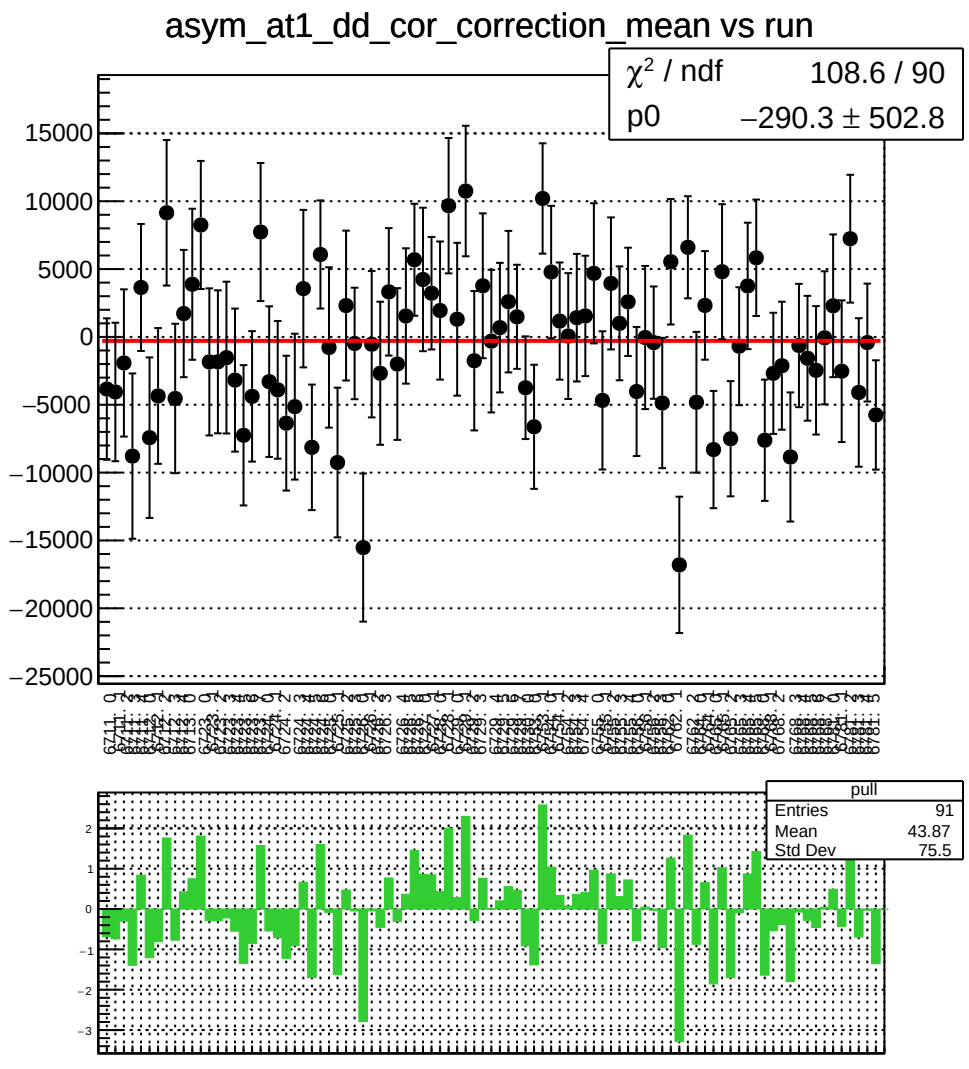

pull1D
Entries 91
Mean −0.02712
Std Dev 1.092

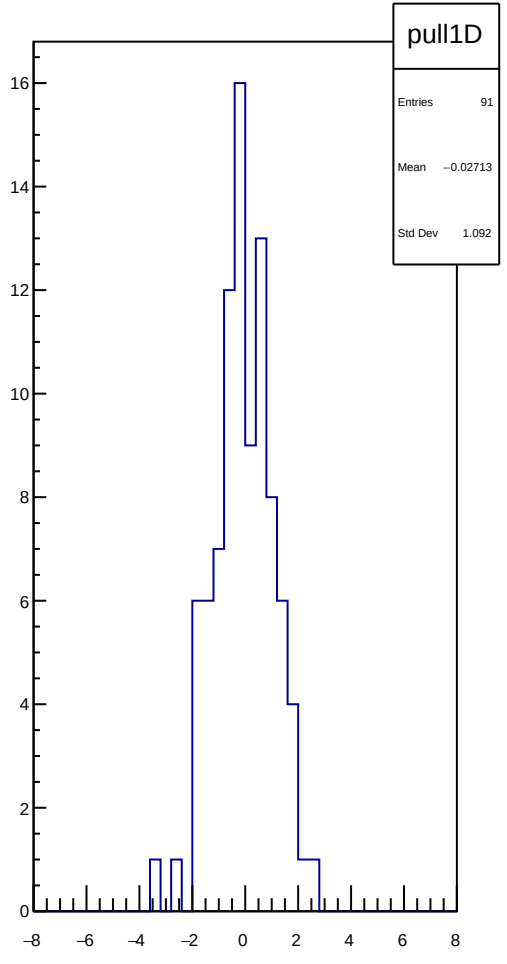

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1.232e+04 / 90
p0 476 ± 0.3555
600
550
500
450
400

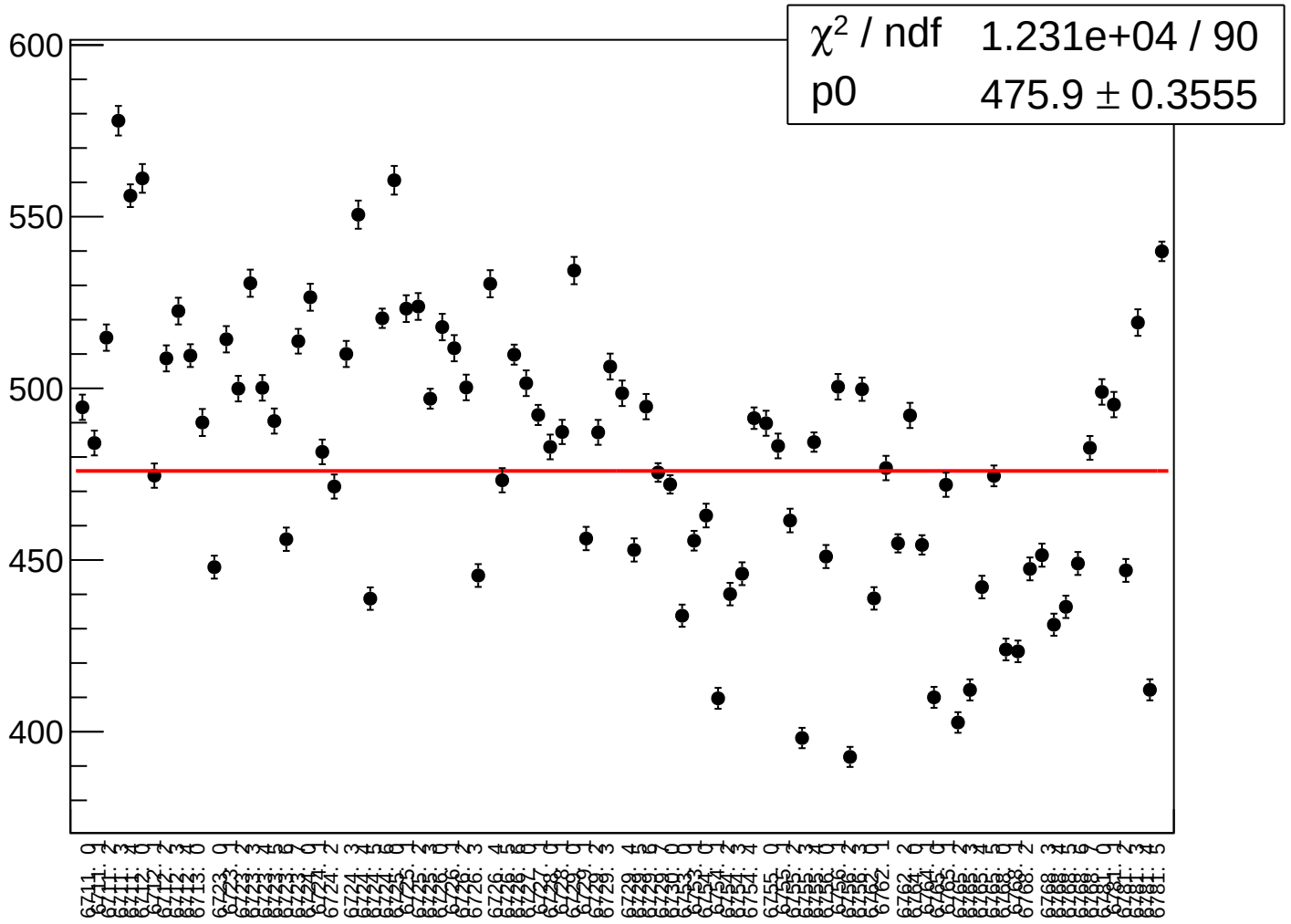

cor_asym_at1_dd_mean vs run
χ² / ndf 102.7 / 90
p0 4119 ± 1902
pull
Entries 91
Mean 427.5
Std Dev 0

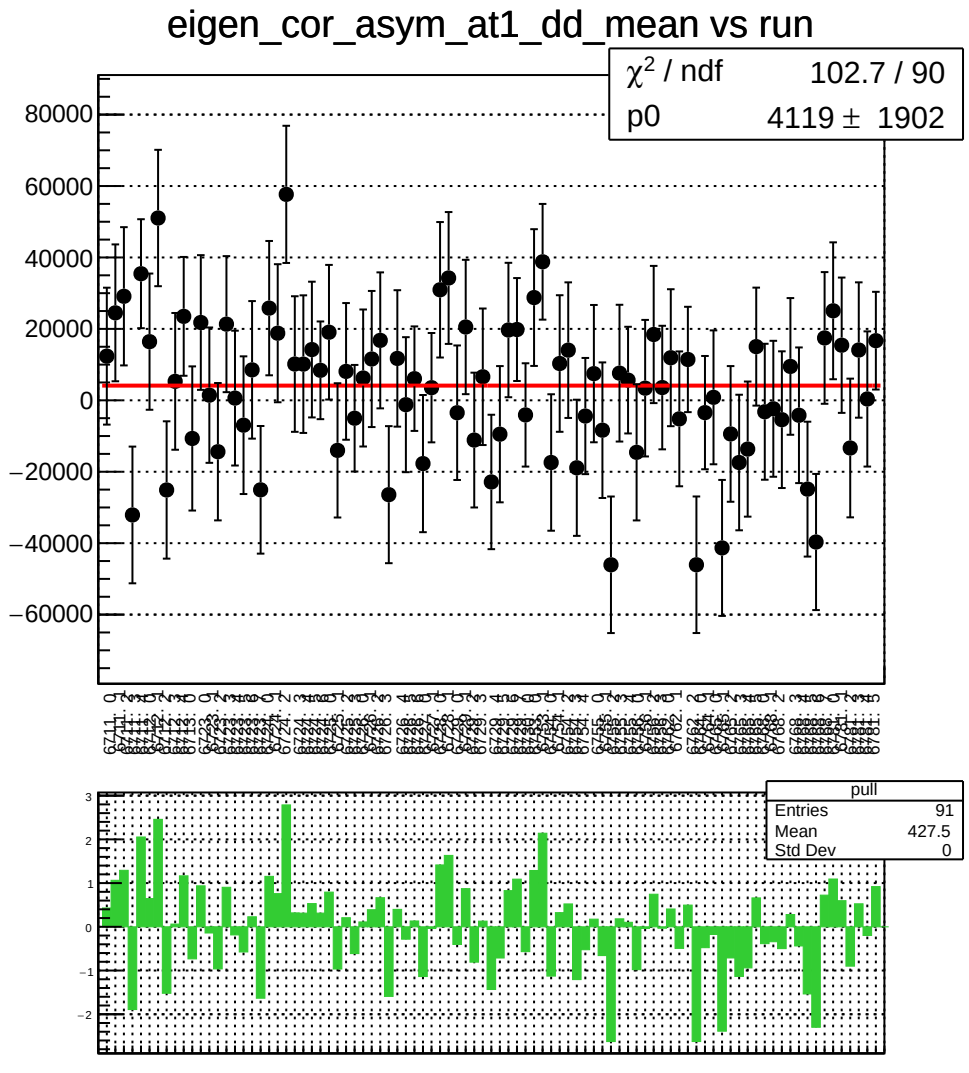

pull1D
Entries 91
Mean −0.01814
Std Dev 1.062

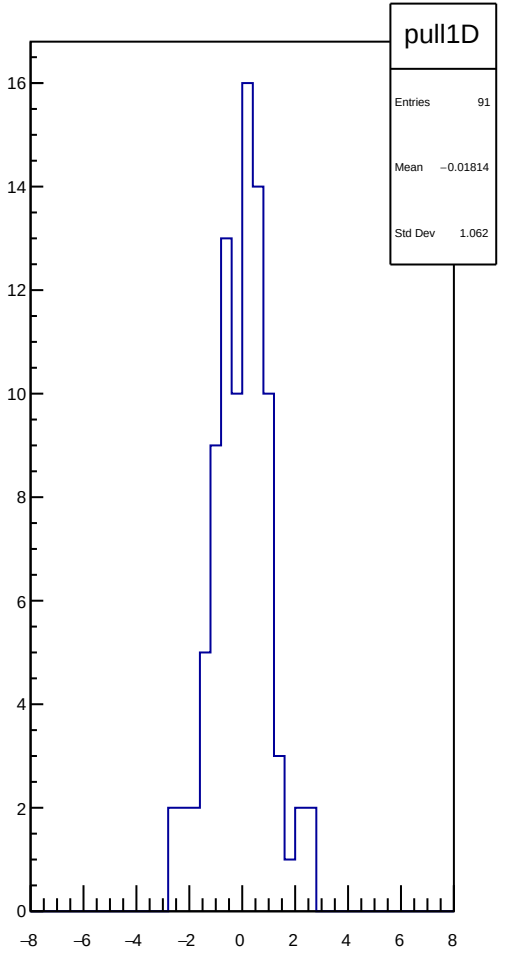

cor_asym_at1_dd_rms vs run
χ² / ndf 109.2 / 90
p0 1807 ± 1.345
1860
1840
1820
1800
1780
1760

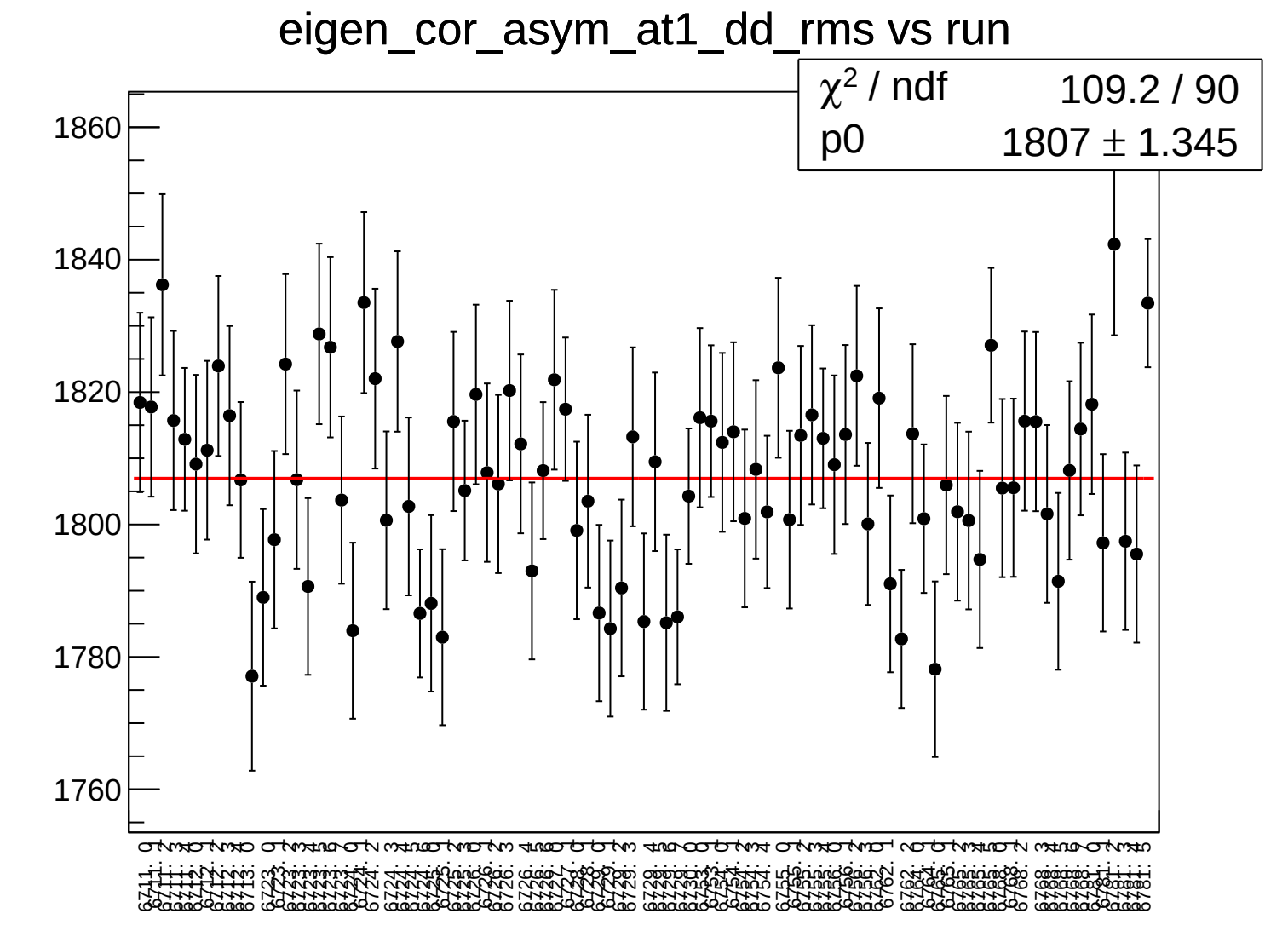

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 108.6 / 90
p0 −290.3 ± 502.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 91
Mean 43.87
Std Dev 75.5
2
1
0
−1
−2
−3

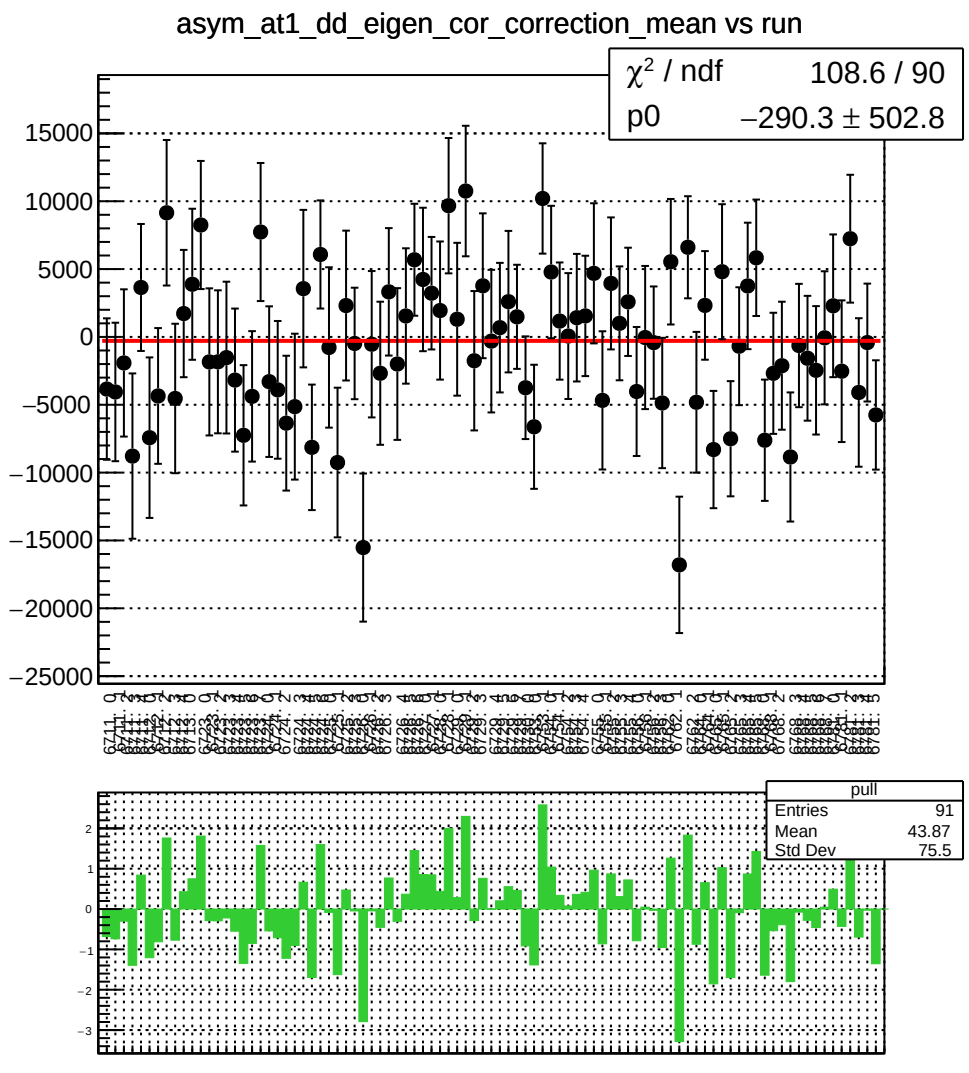

pull1D
Entries 91
Mean −0.02713
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

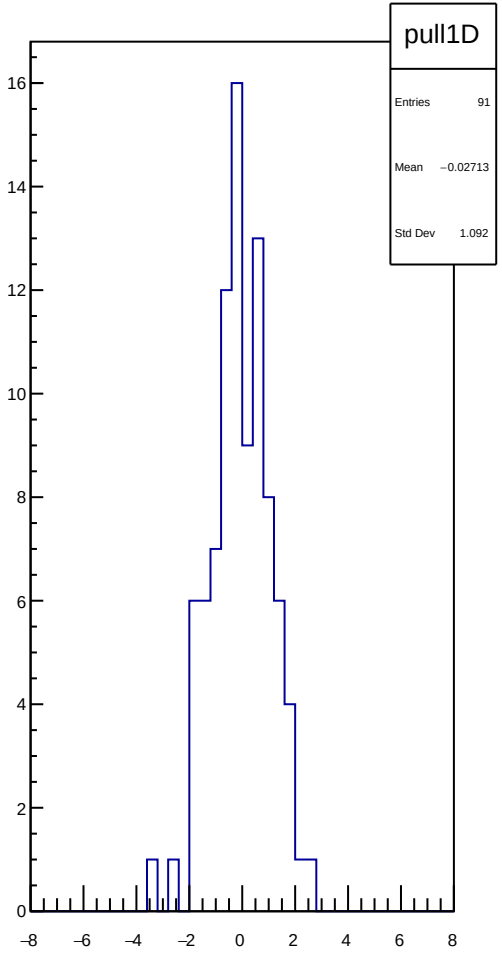

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1.231e+04 / 90
p0 475.9 ± 0.3555
600
550
500
450
400

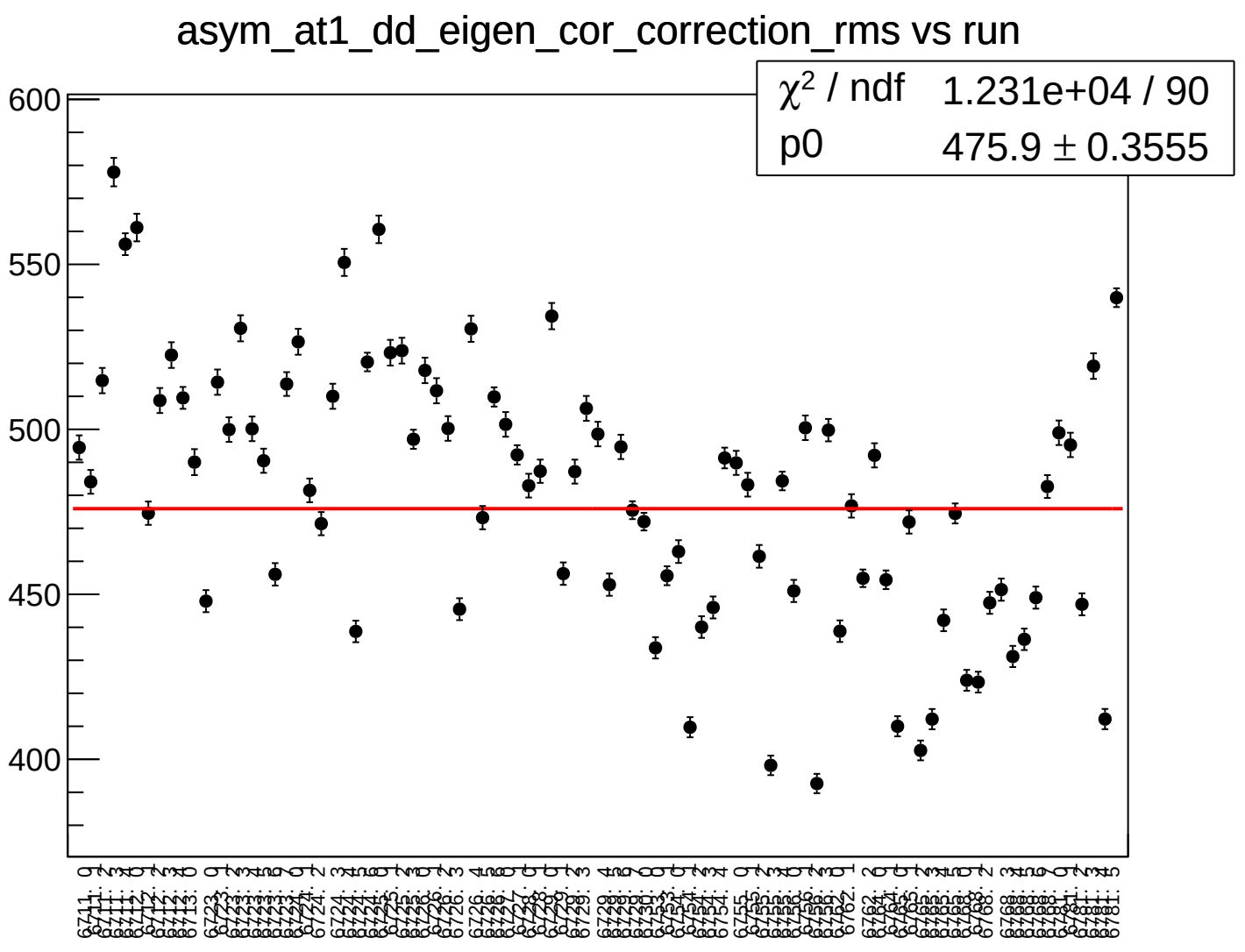

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 102.7 / 90
p0 4119 ± 1902
pull
Entries 91
Mean 427.5
Std Dev 0

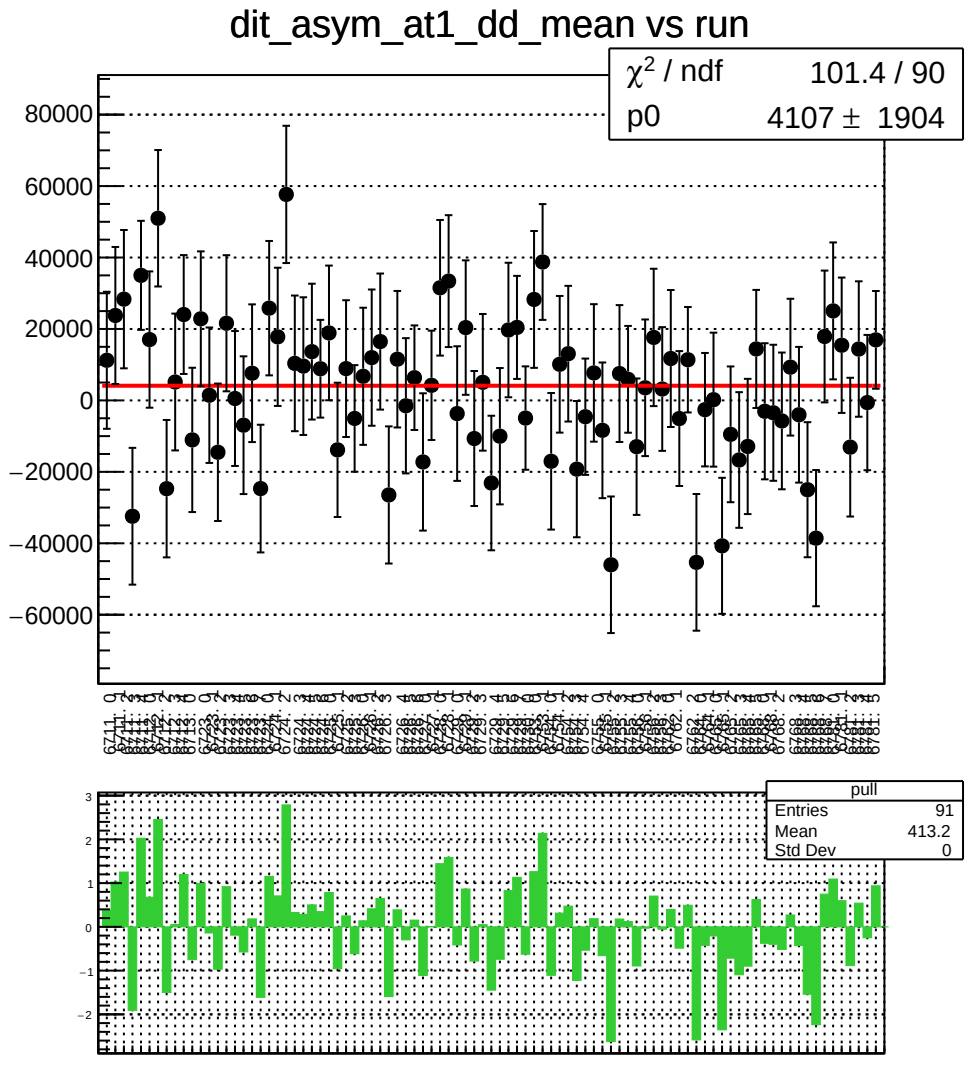

pull1D
Entries 91
Mean −0.01814
Std Dev 1.062

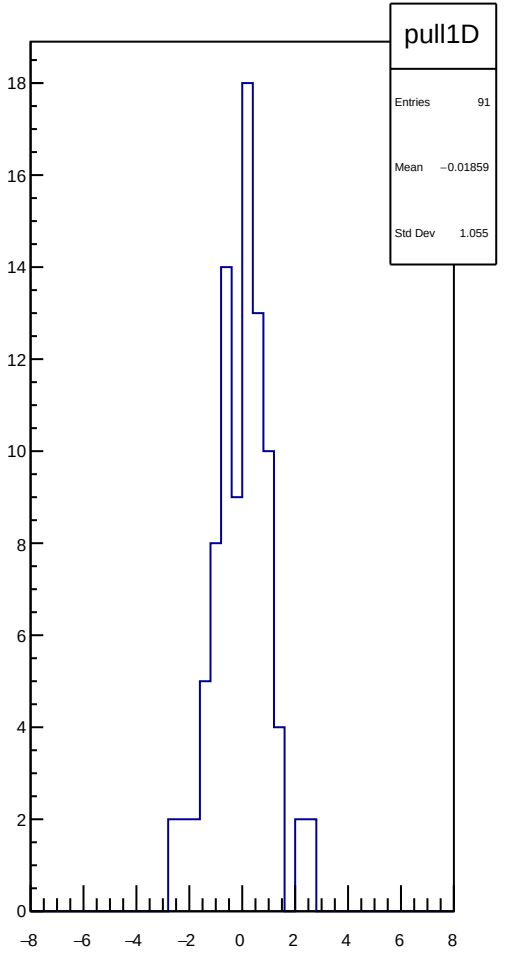

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 109.2 / 90
p0 1807 ± 1.345
1860
1840
1820
1800
1780
1760

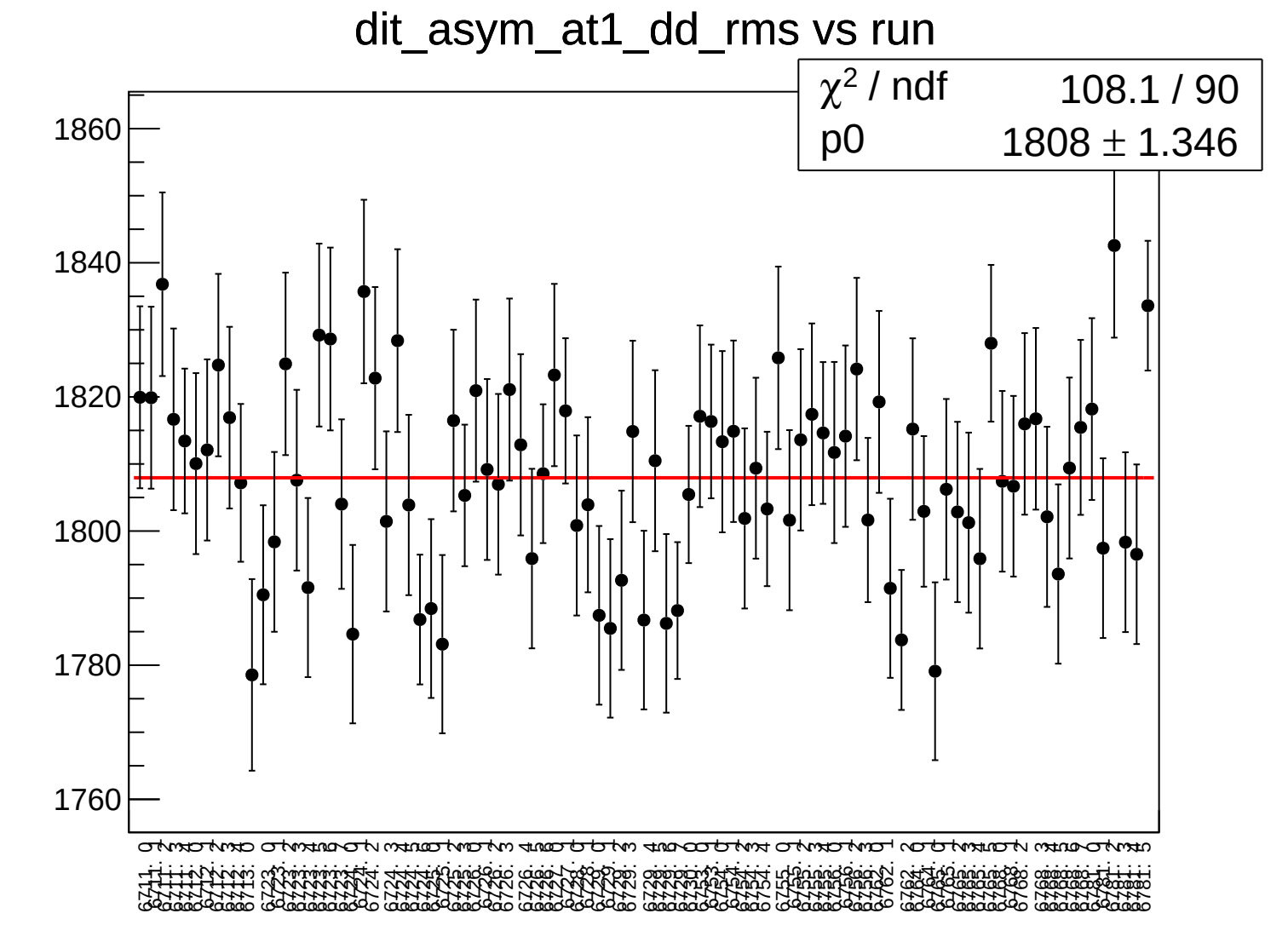

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 108.6 / 90
p0 −290.3 ± 502.8
pull
Entries 91
Mean 43.87
Std Dev 75.5

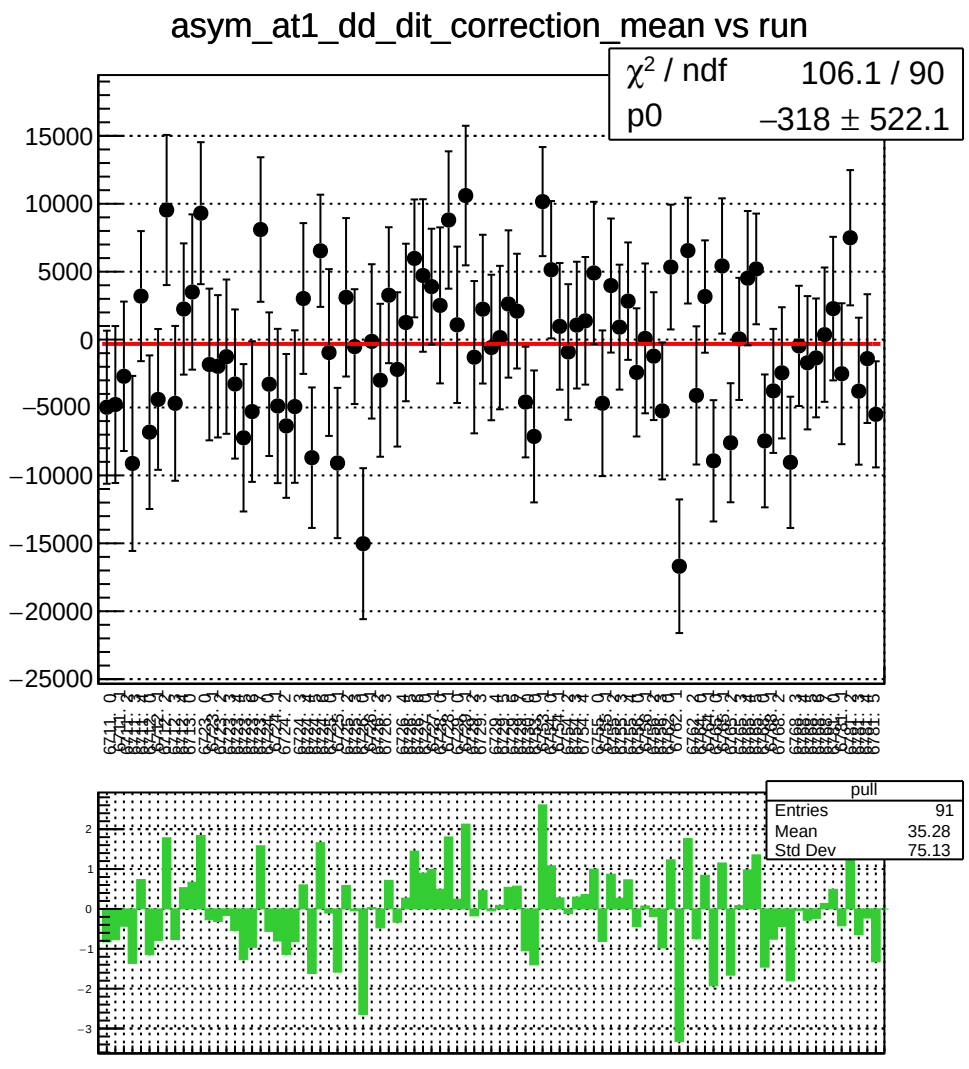

pull1D
Entries 91
Mean −0.02713
Std Dev 1.092

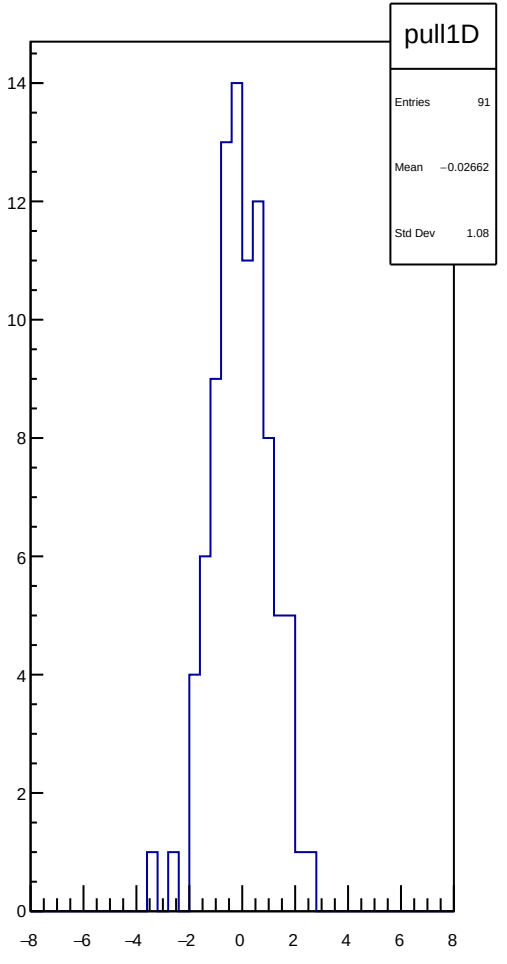

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.231e+04 / 90
p0 475.9 ± 0.3555
600
550
500
450
400

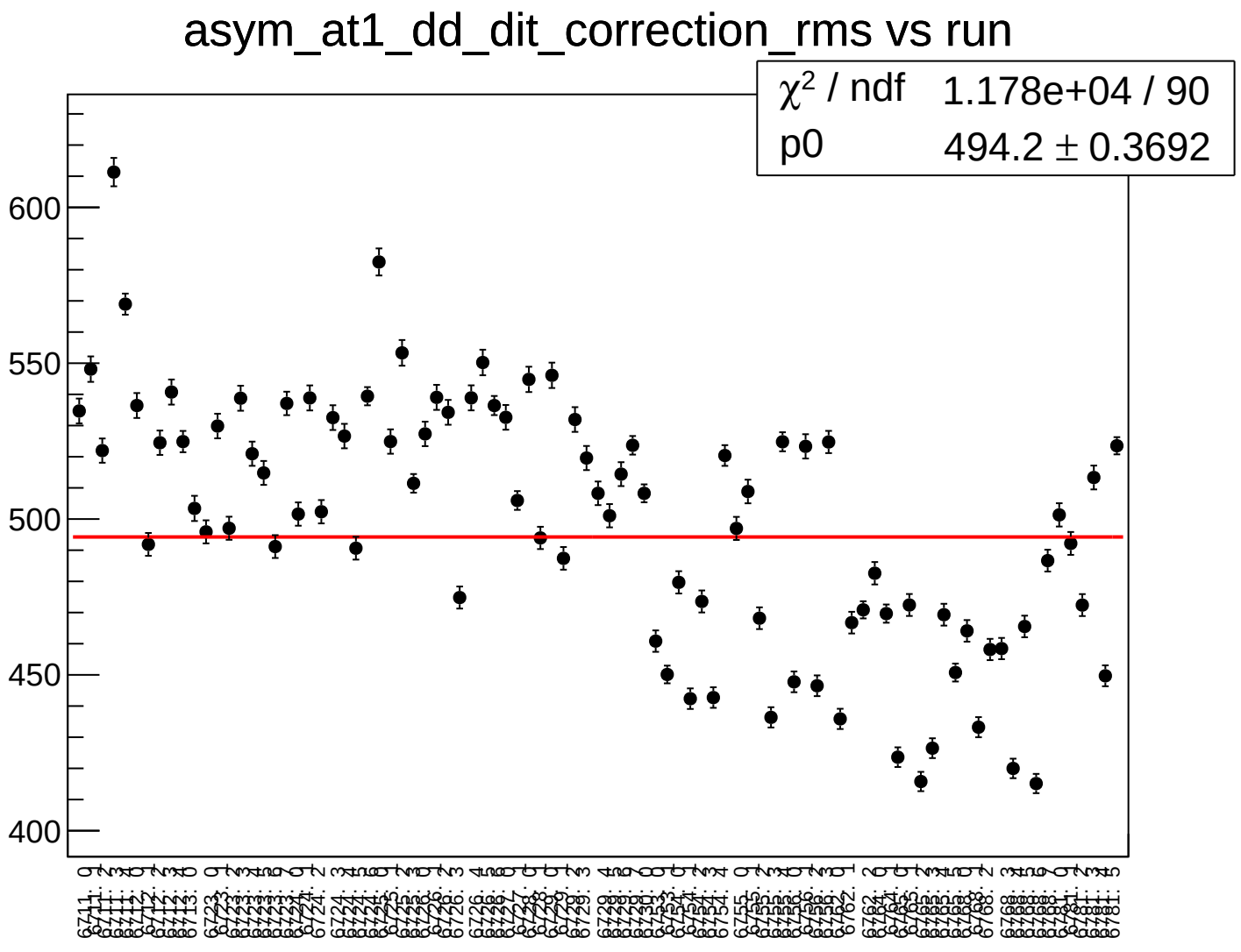

dit_asym_at1_dd_mean vs run
χ² / ndf 101.4 / 90
p0 4107 ± 1904
pull
Entries 91
Mean 413.2
Std Dev 0

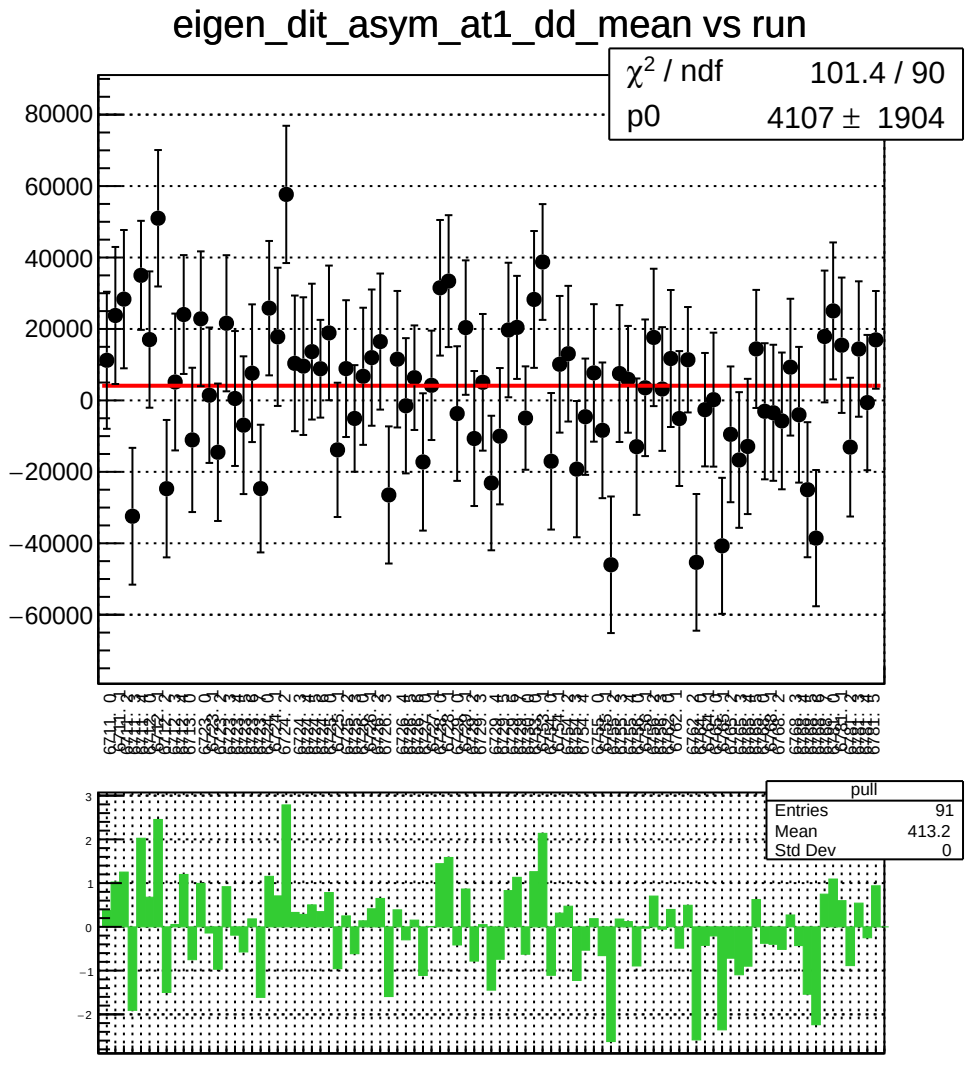

pull1D
Entries 91
Mean −0.01859
Std Dev 1.055

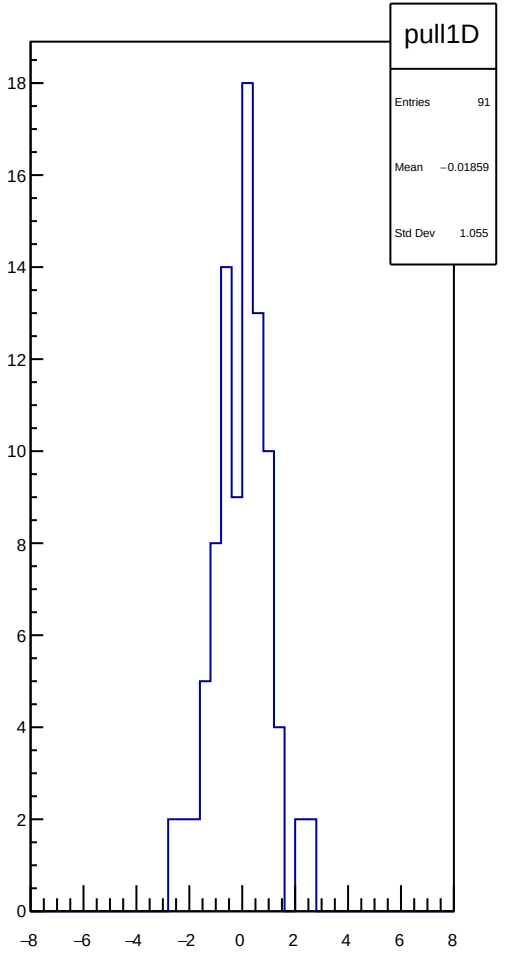

dit_asym_at1_dd_rms vs run
χ^2 / ndf 108.1 / 90
p0 1808 ± 1.346
1860
1840
1820
1800
1780
1760

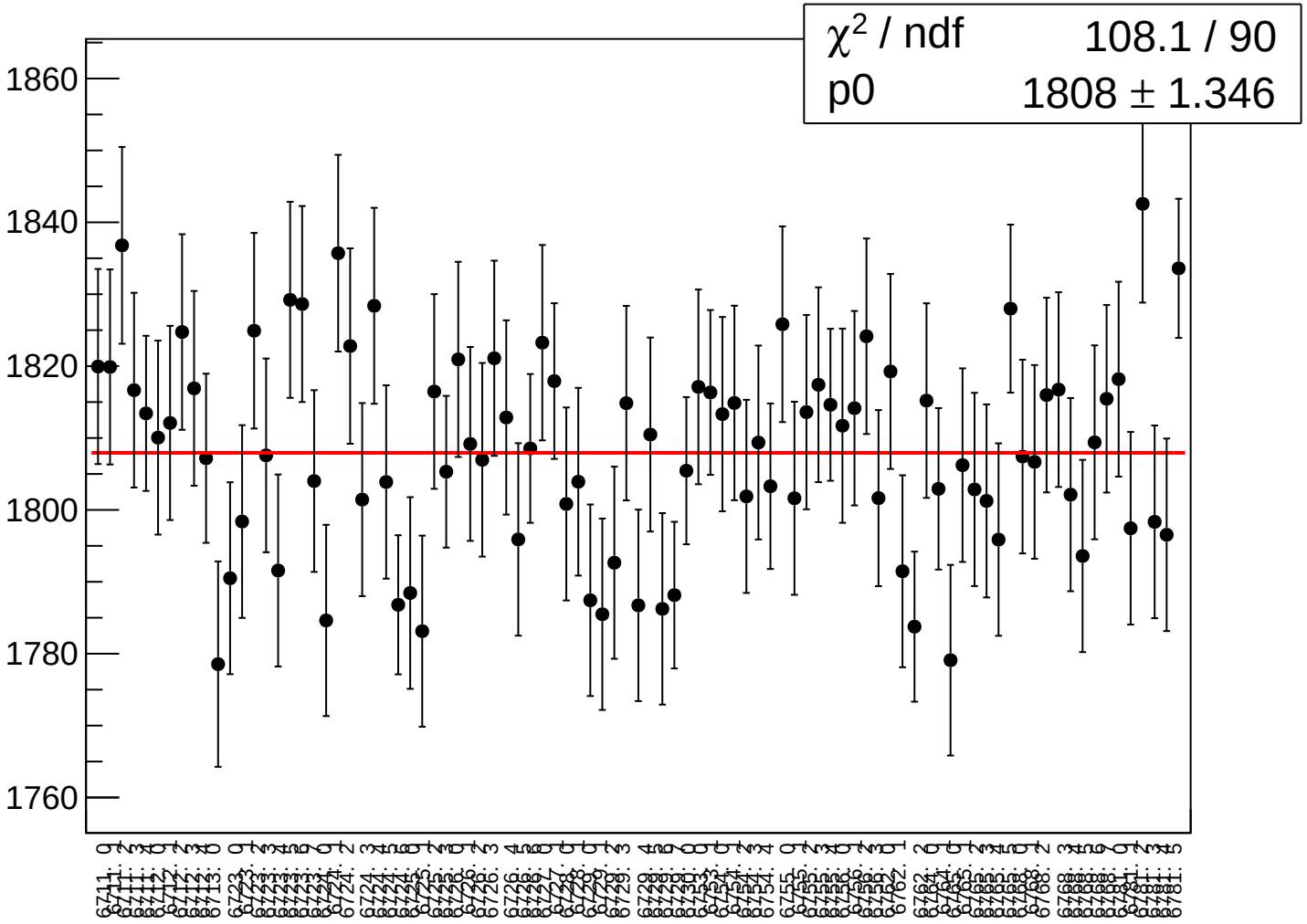

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 106.1 / 90
p0 −318 ± 522.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 91
Mean 35.28
Std Dev 75.13
2
1
0
−1
−2
−3

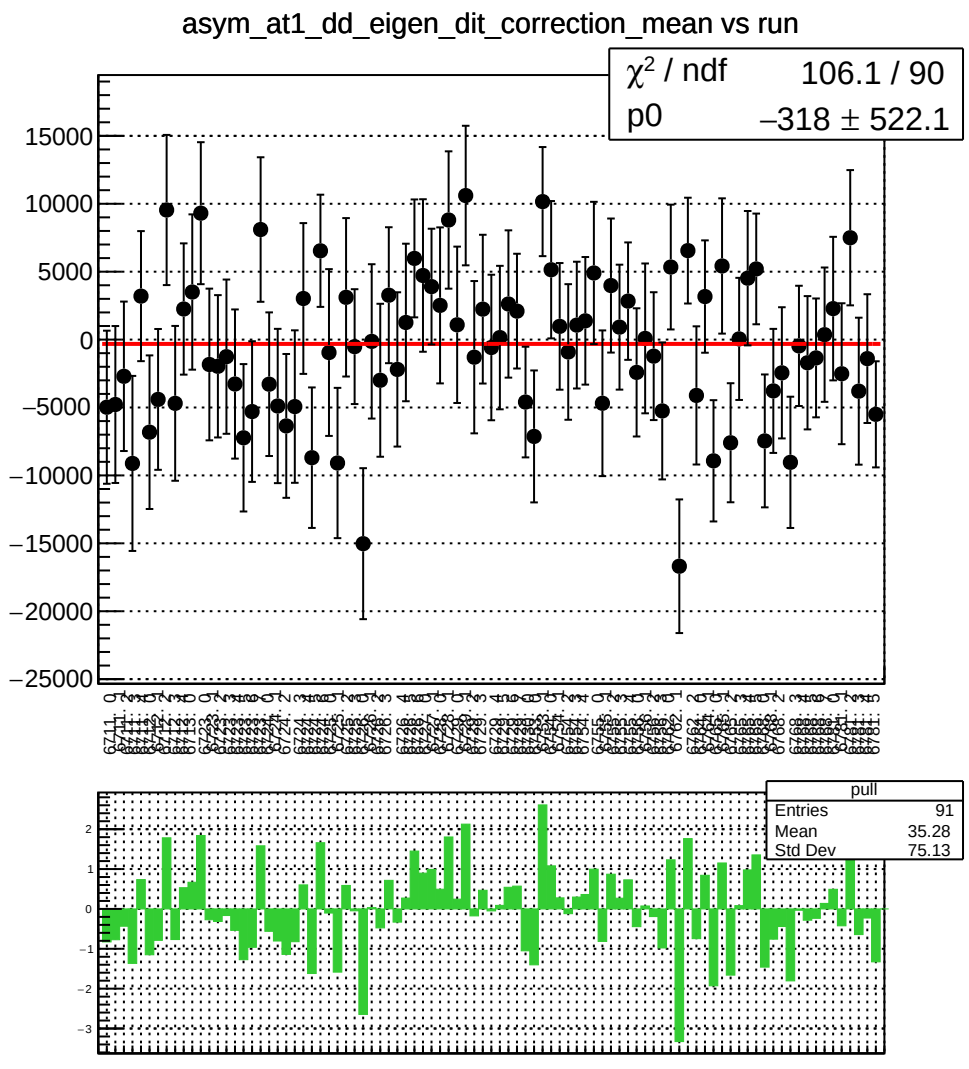

pull1D
Entries 91
Mean −0.02662
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

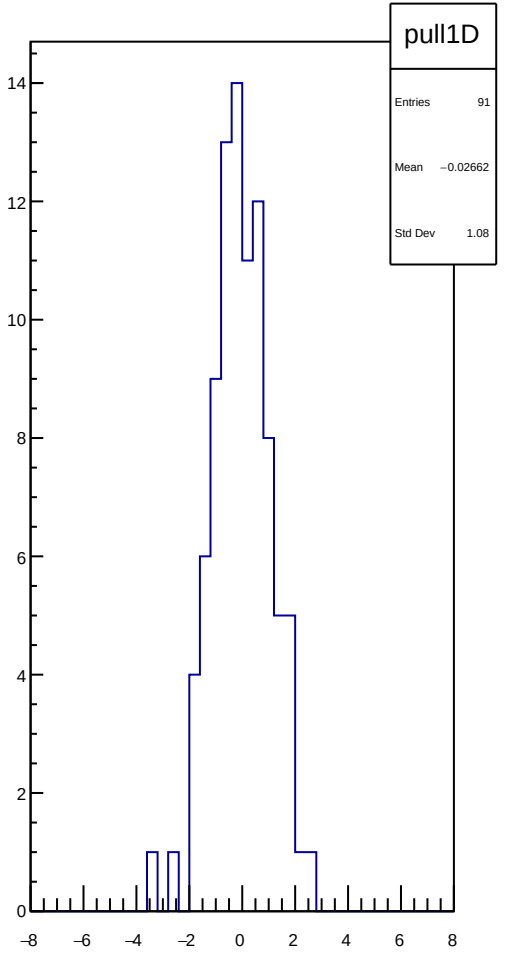

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1.178e+04 / 90
p0 494.2 ± 0.3692
600
550
500
450
400

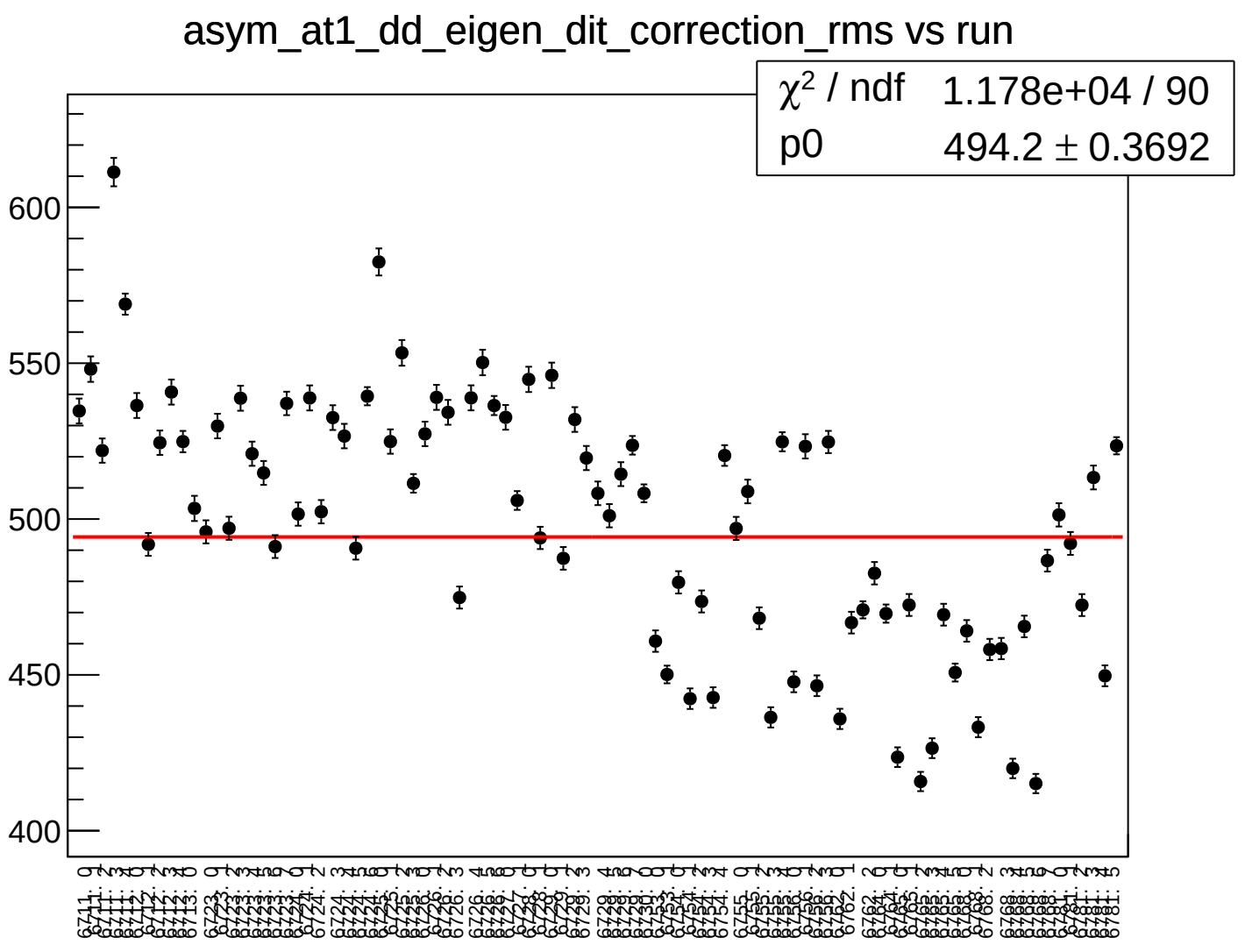

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 101.4 / 90
p0 4107 ± 1904
pull
Entries 91
Mean 413.2
Std Dev 0

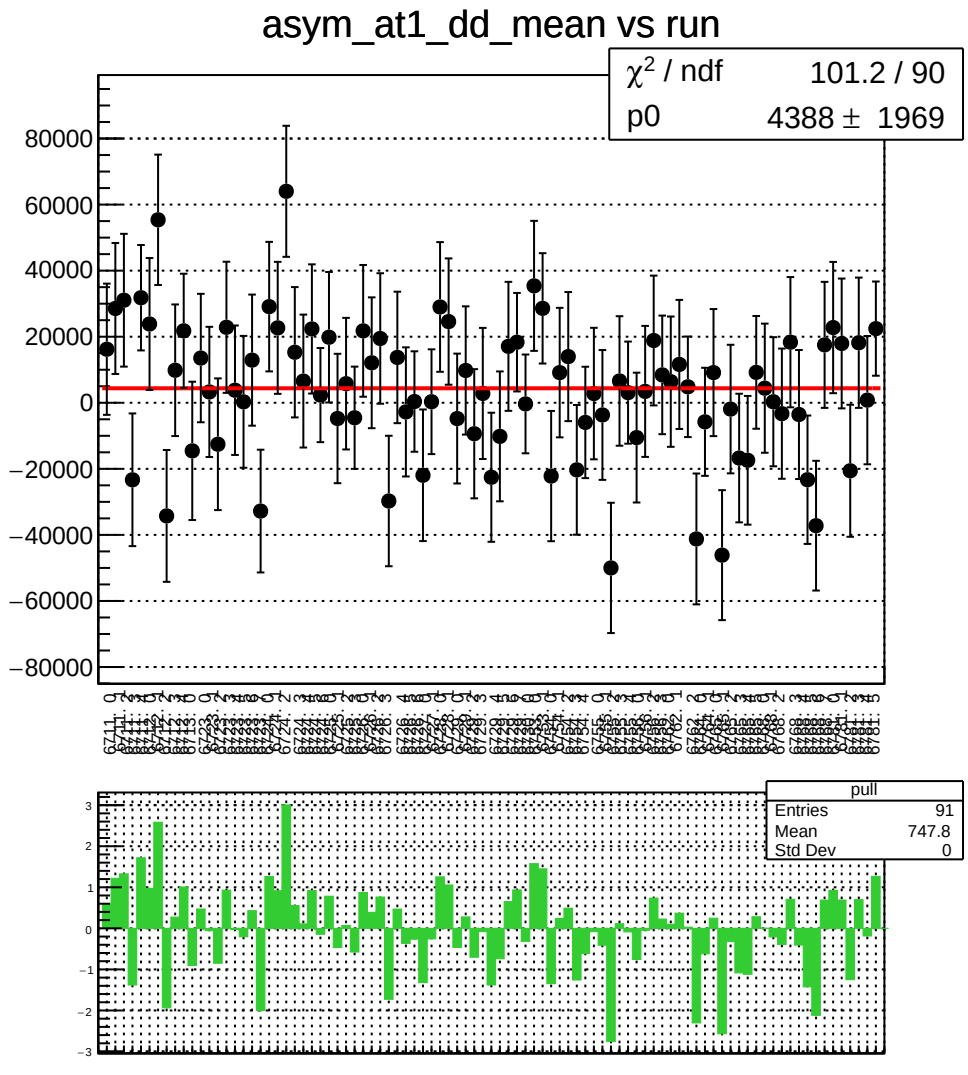

pull1D
Entries 91
Mean −0.01859
Std Dev 1.055

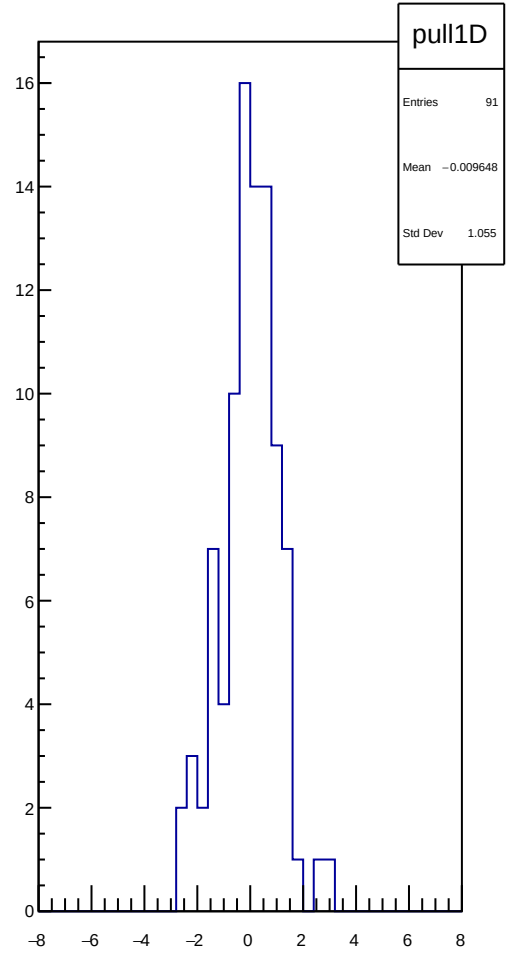

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 108.1 / 90
p0 1808 ± 1.346
1860
1840
1820
1800
1780
1760

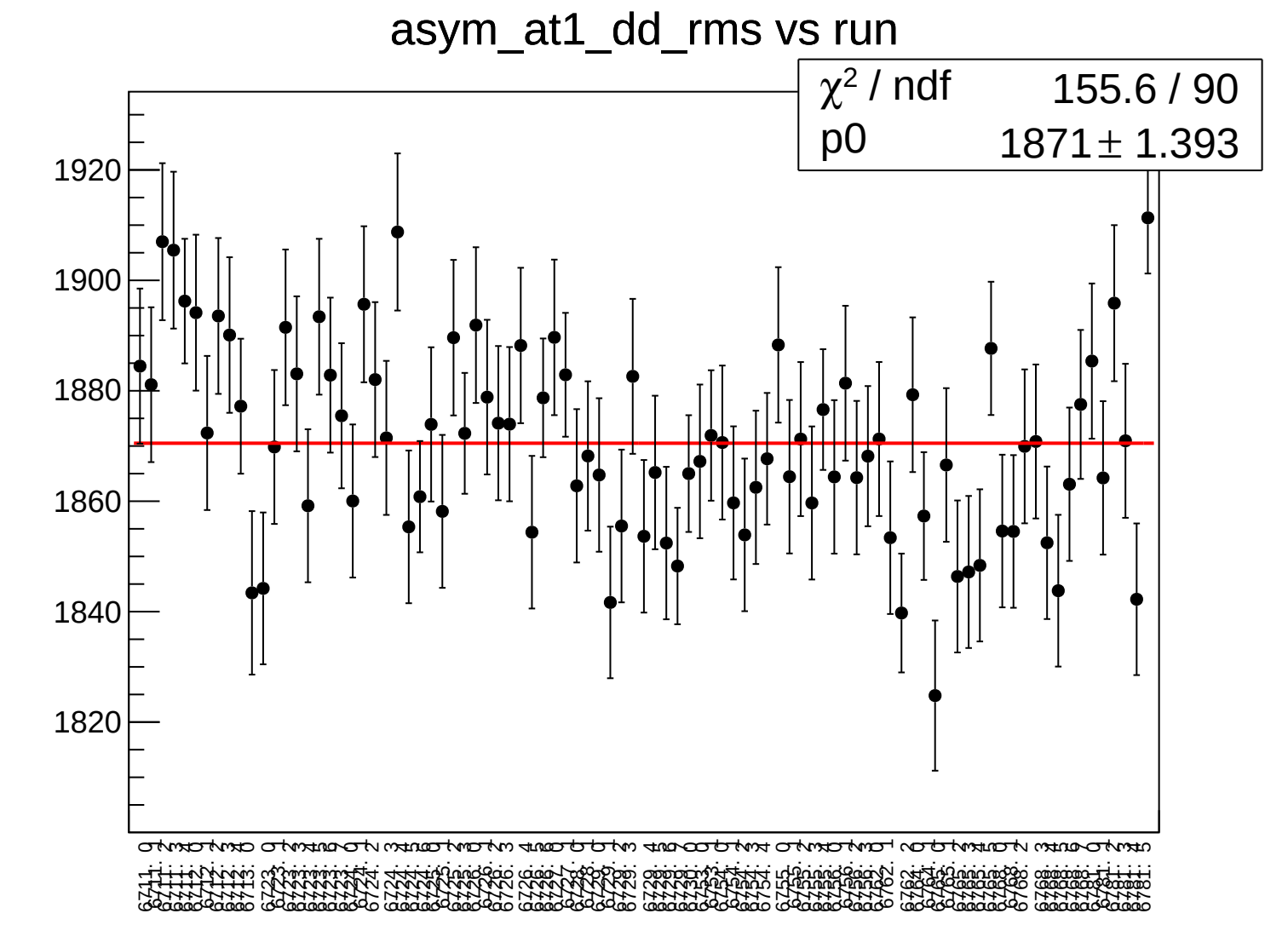

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 106.1 / 90
p0 −318 ± 522.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 91
Mean 35.28
Std Dev 75.13
2
1
0
−1
−2
−3

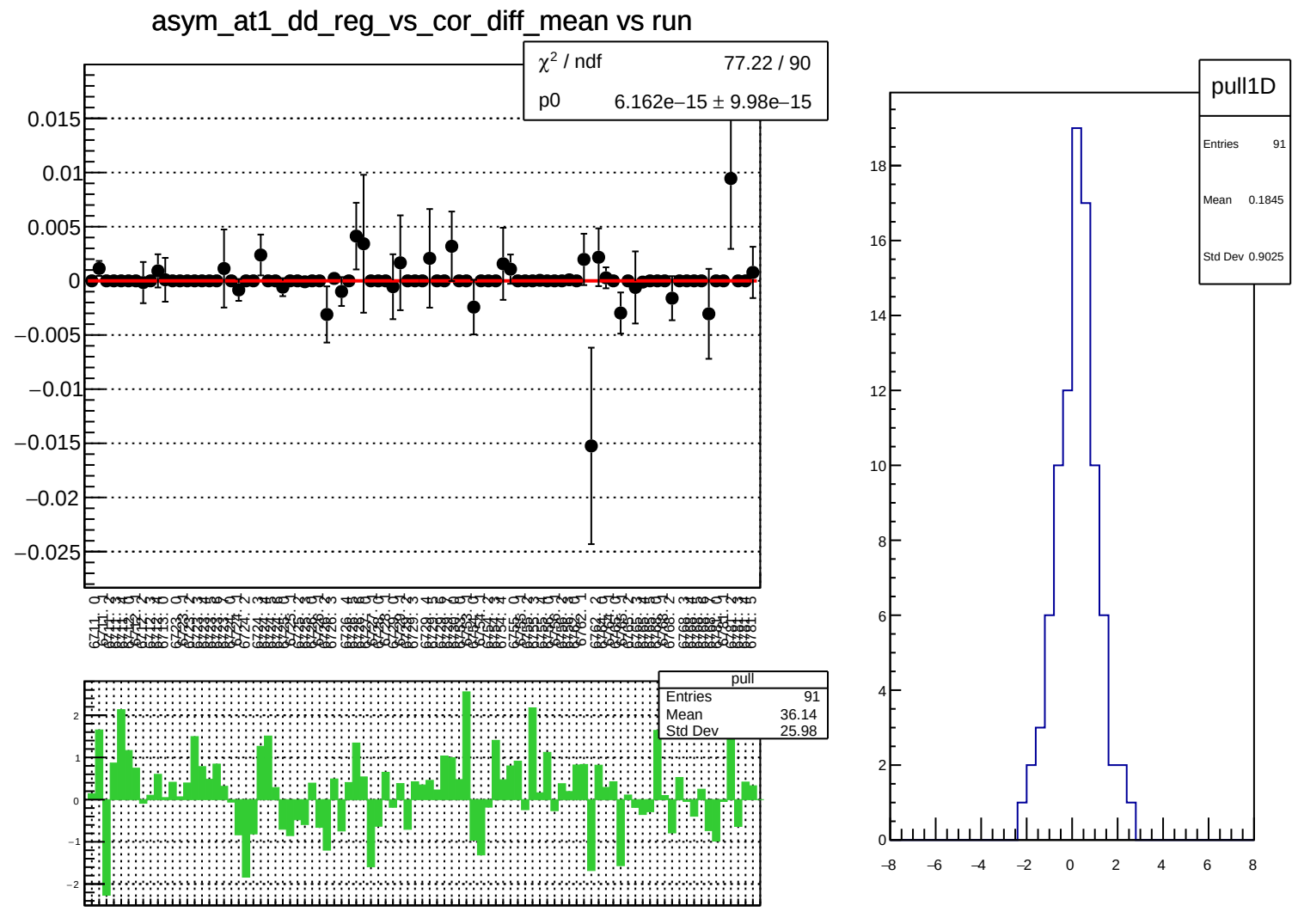

pull1D
Entries 91
Mean −0.02662
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

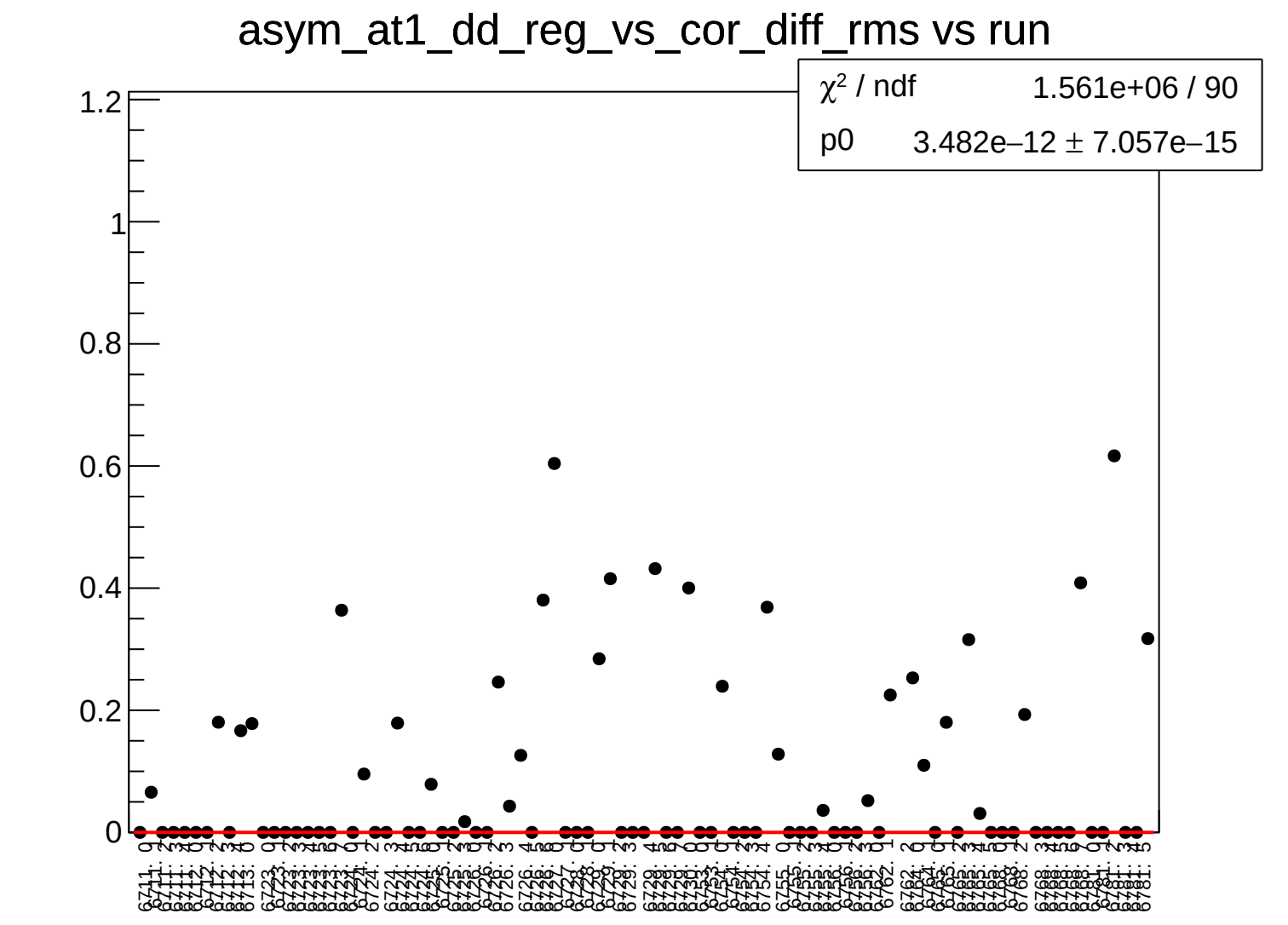

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.178e+04 / 90
p0 494.2 ± 0.3692
600
550
500
450
400

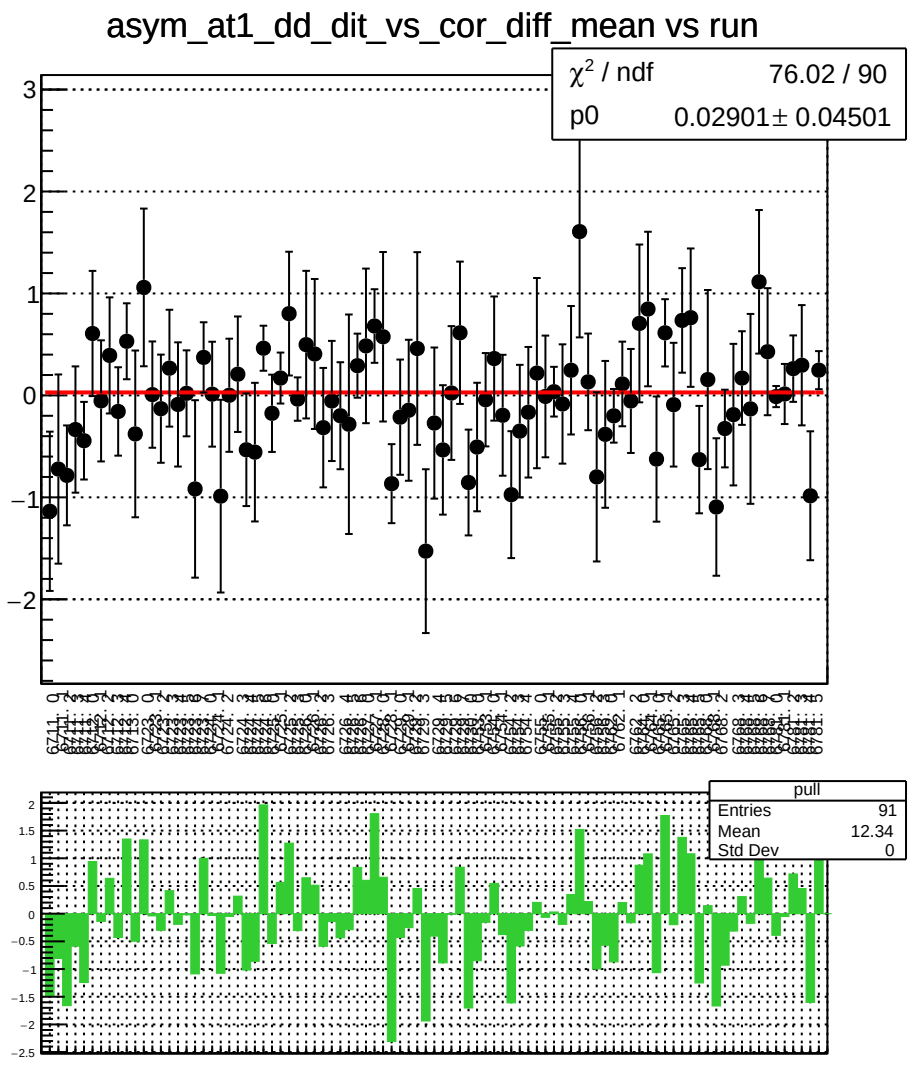

asym_at1_dd_mean vs run
χ² / ndf 101.2 / 90
p0 4388 ± 1969
pull
Entries 91
Mean 747.8
Std Dev 0

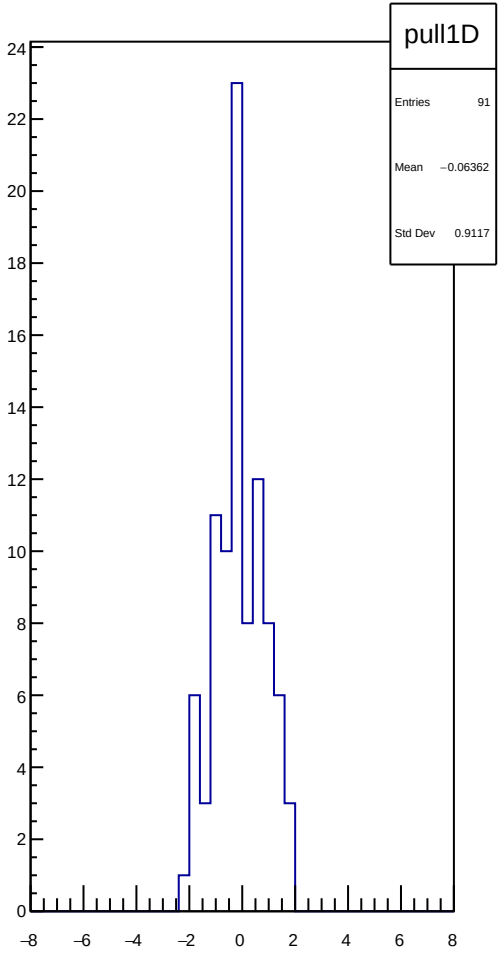

pull1D
Entries 91
Mean −0.009648
Std Dev 1.055

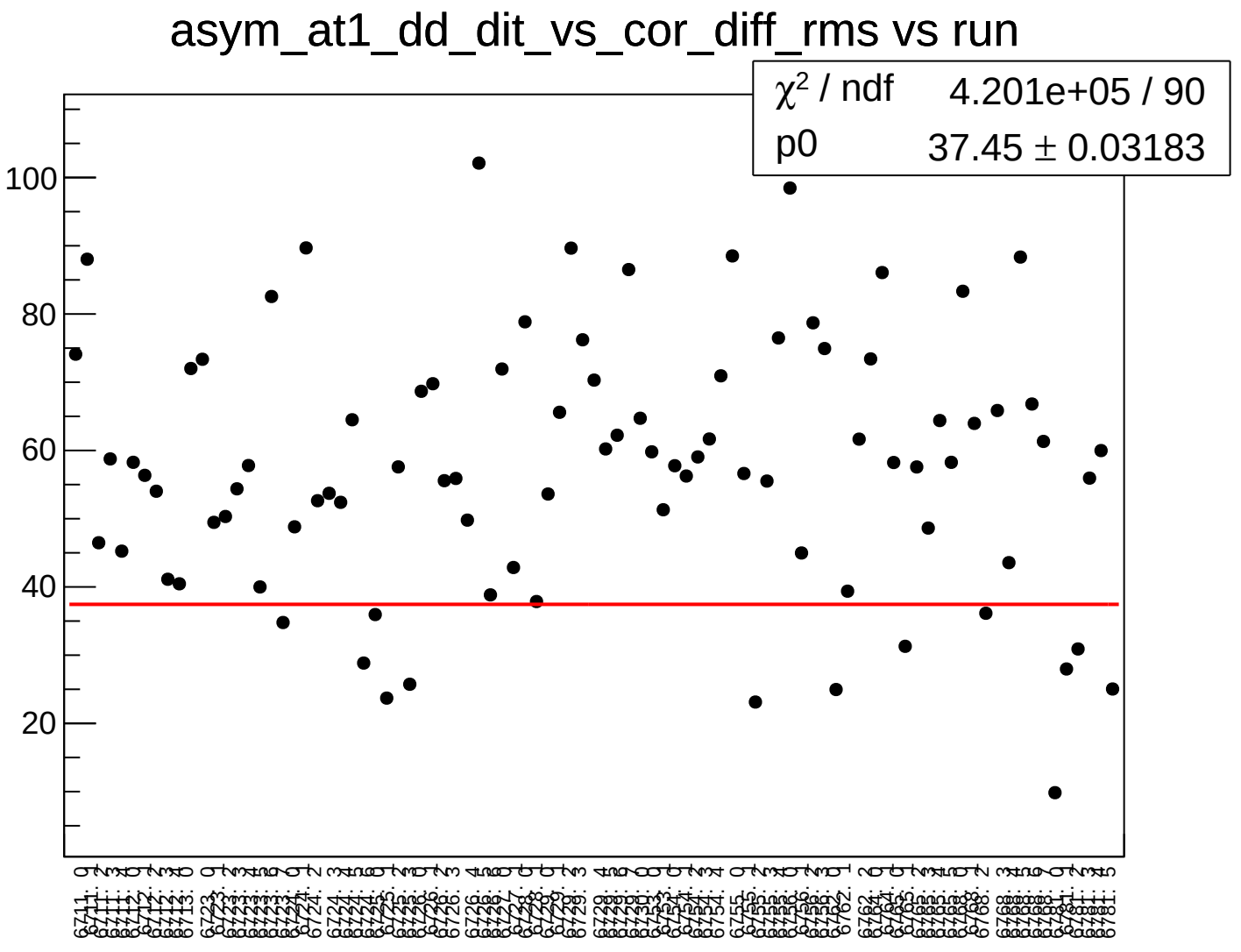

asym_at1_dd_rms vs run
χ^2 / ndf 155.6 / 90
p0 1871 ± 1.393
1920
1900
1880
1860
1840
1820

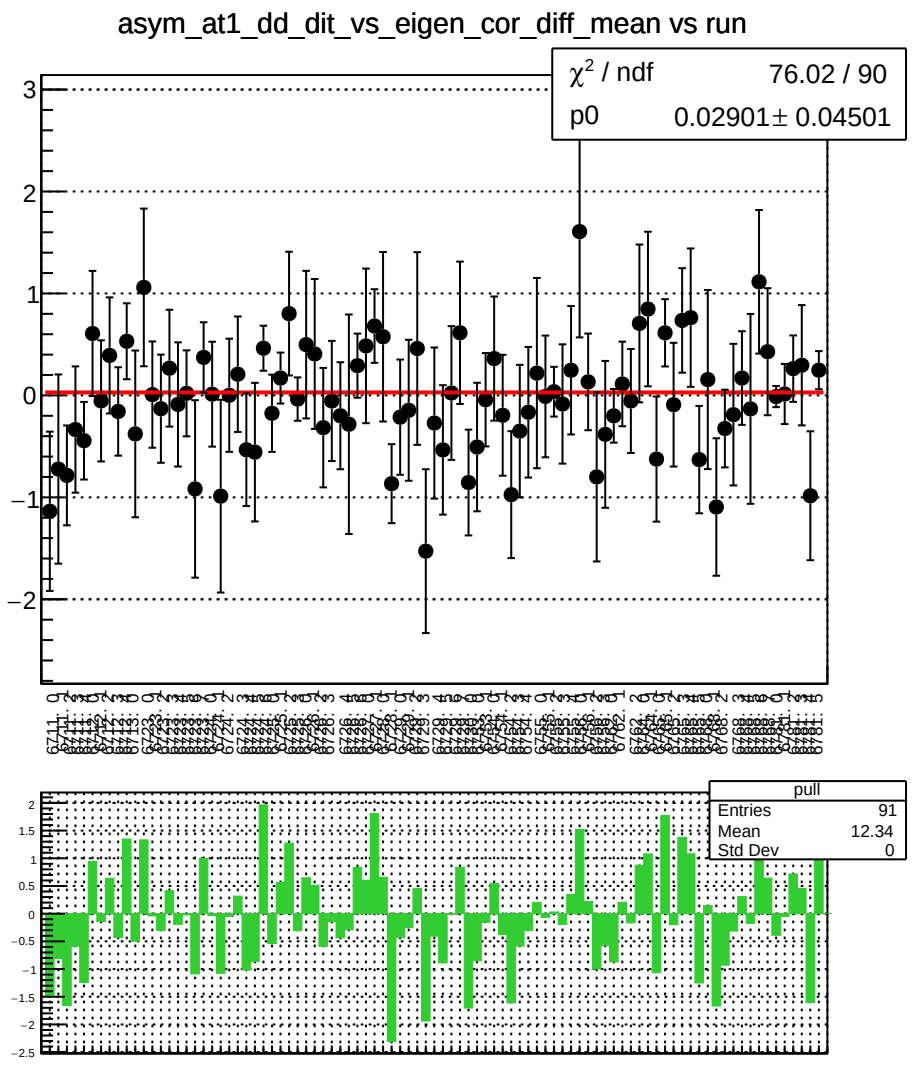

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.22 / 90
p0 6.162e−15 ± 9.98e−15
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 91
Mean 36.14
Std Dev 25.98
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.1845
Std Dev 0.9025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

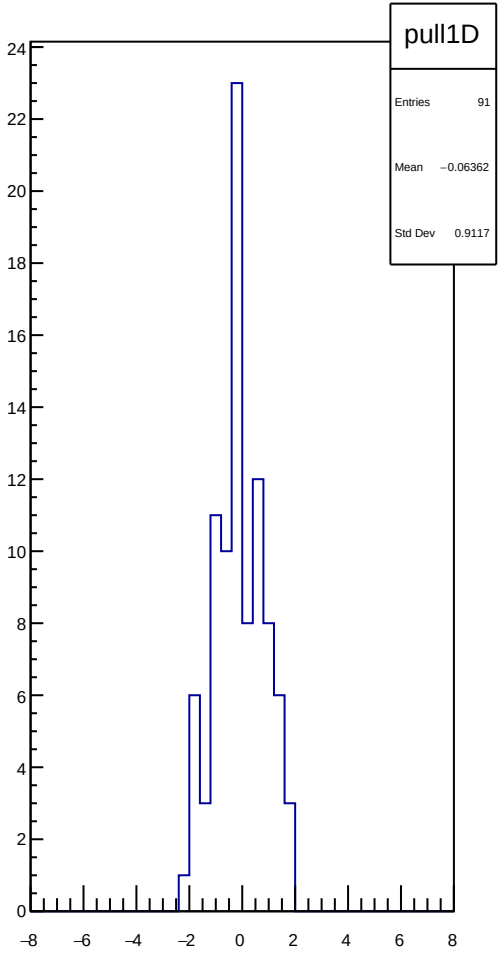

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.561e+06 / 90
p0 3.482e−12 ± 7.057e−15
1.2
1
0.8
0.6
0.4
0.2
0

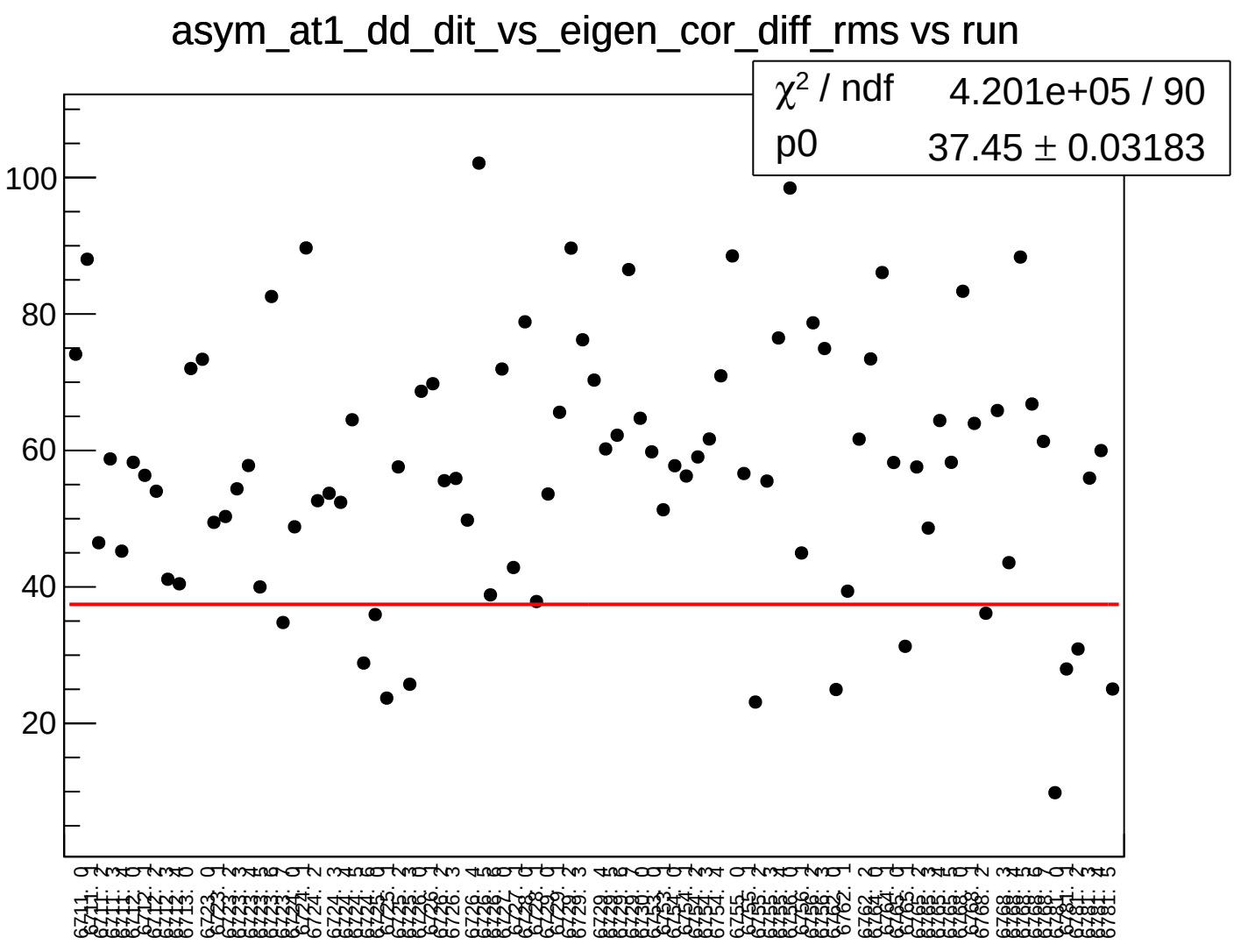

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.02 / 90
p0 0.02901± 0.04501
pull
Entries 91
Mean 12.34
Std Dev 0

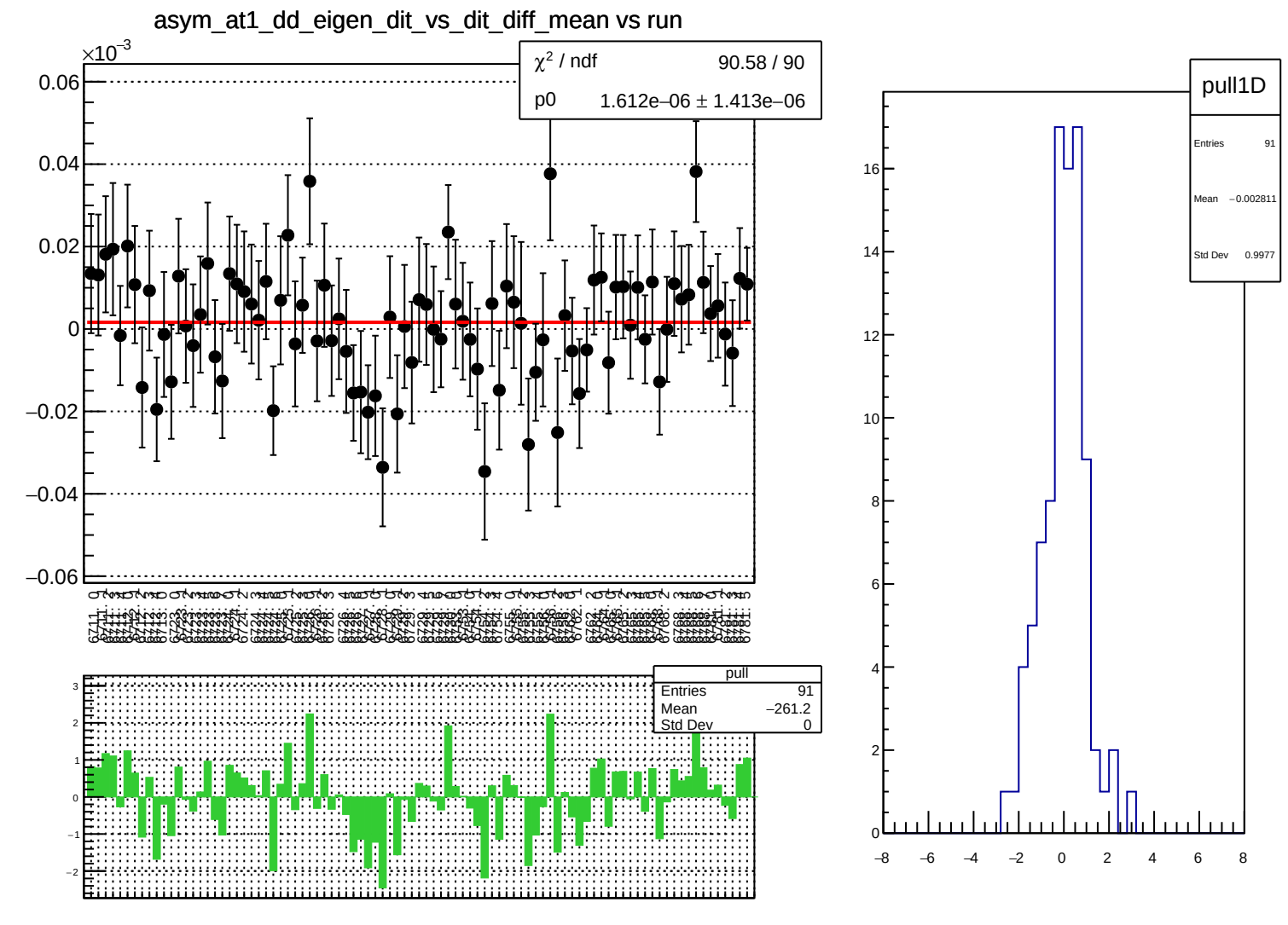

pull1D
Entries 91
Mean −0.06362
Std Dev 0.9117

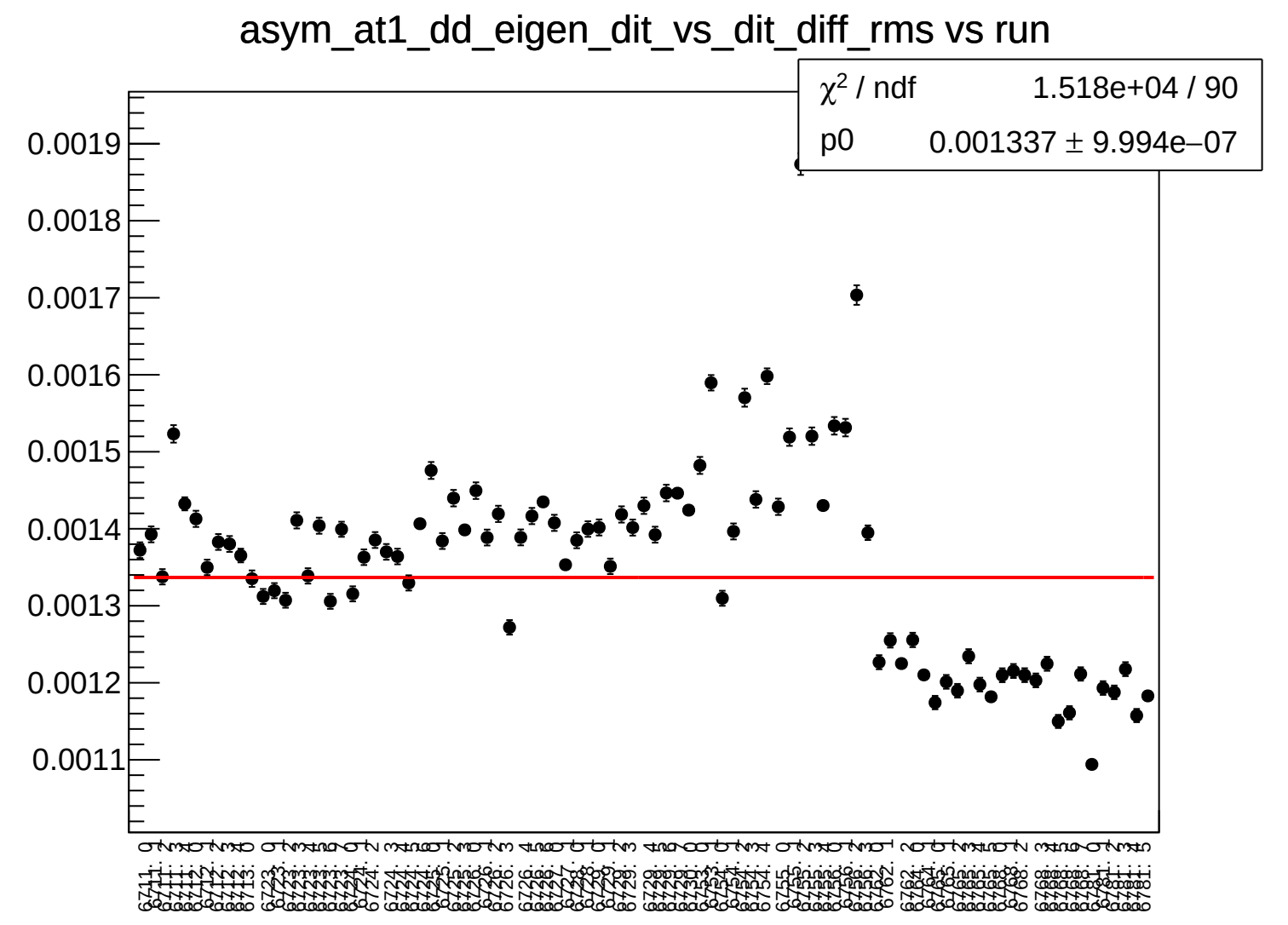

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.201e+05 / 90
p0 37.45 ± 0.03183
100
80
60
40
20

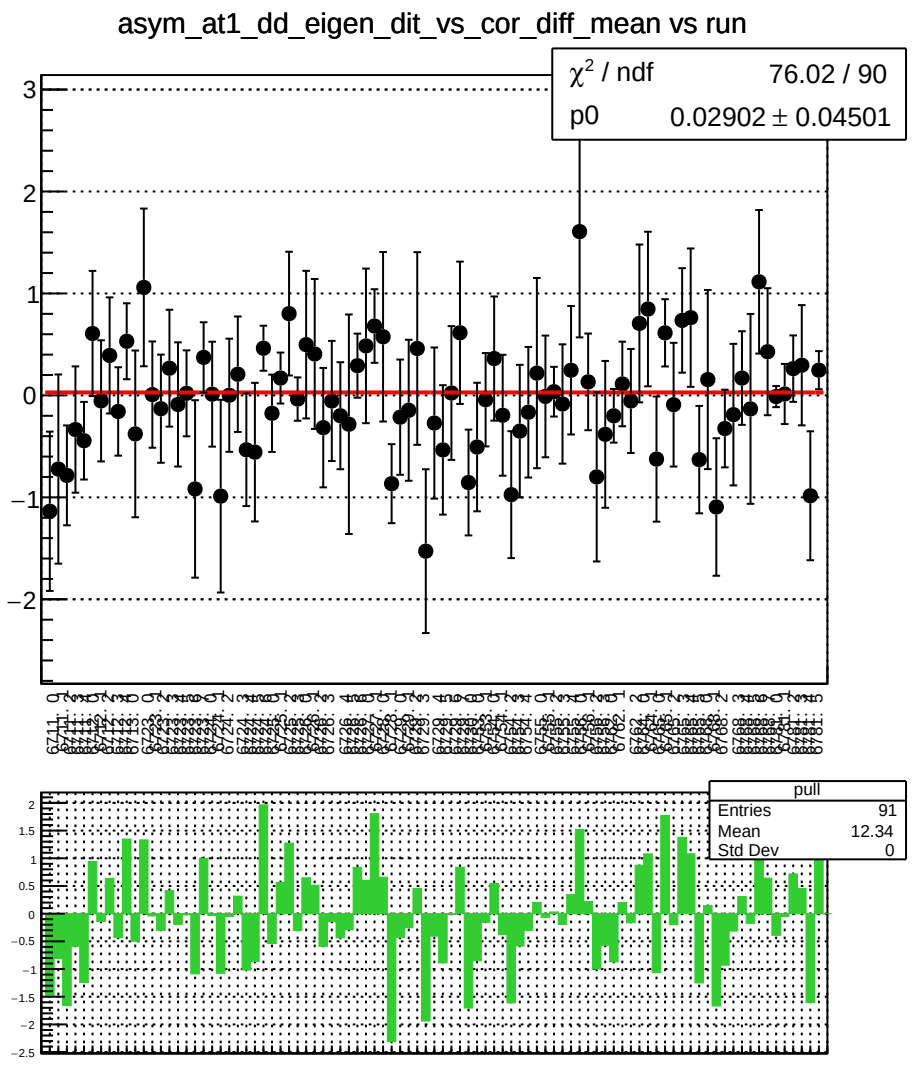

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.02 / 90
p0 0.02901± 0.04501
pull
Entries 91
Mean 12.34
Std Dev 0

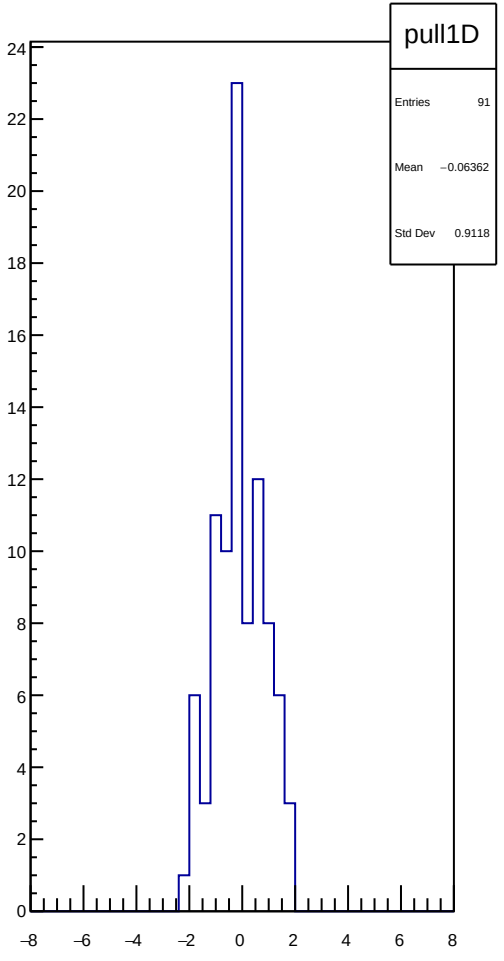

pull1D
Entries 91
Mean −0.06362
Std Dev 0.9117

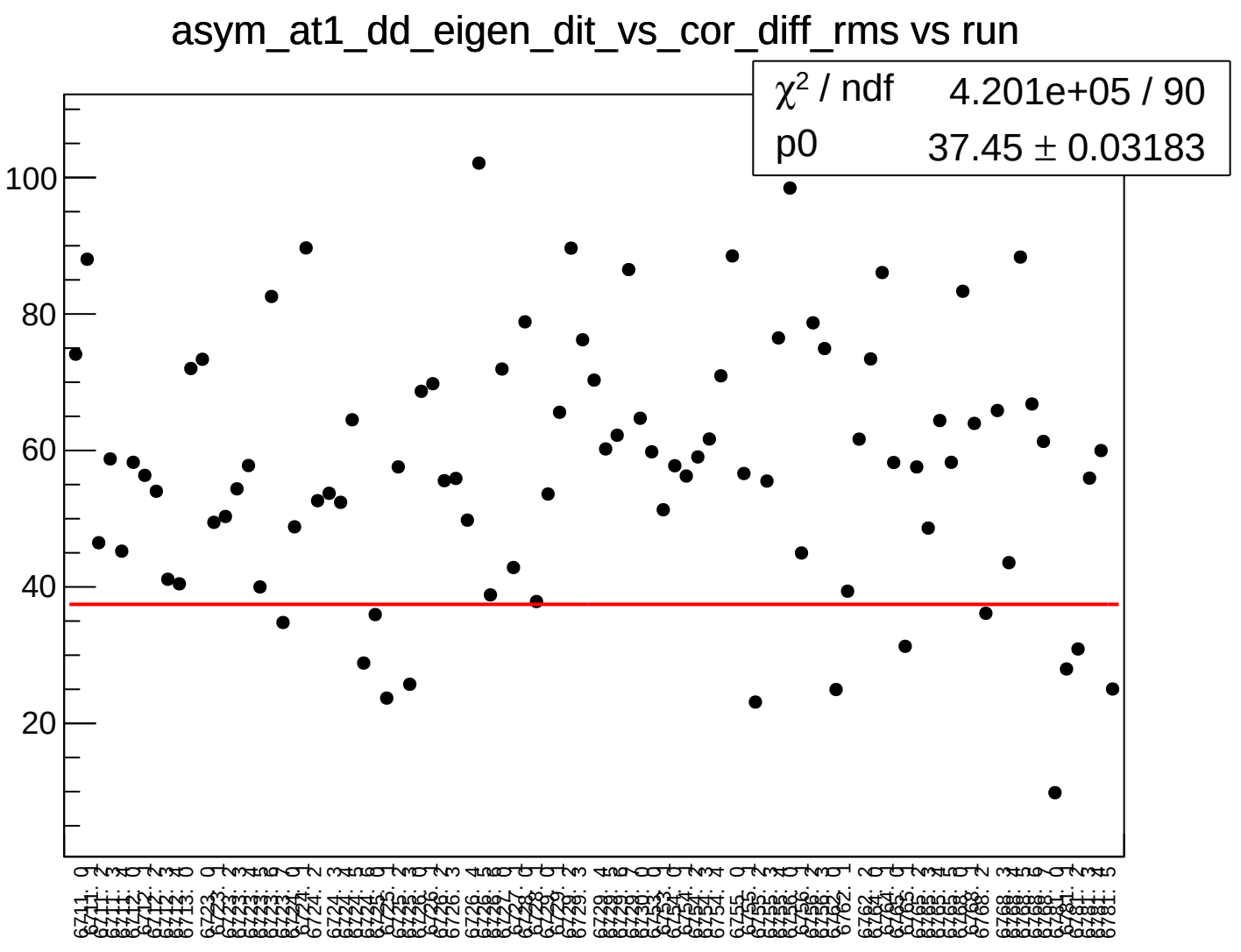

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.201e+05 / 90
p0 37.45 ± 0.03183
100
80
60
40
20

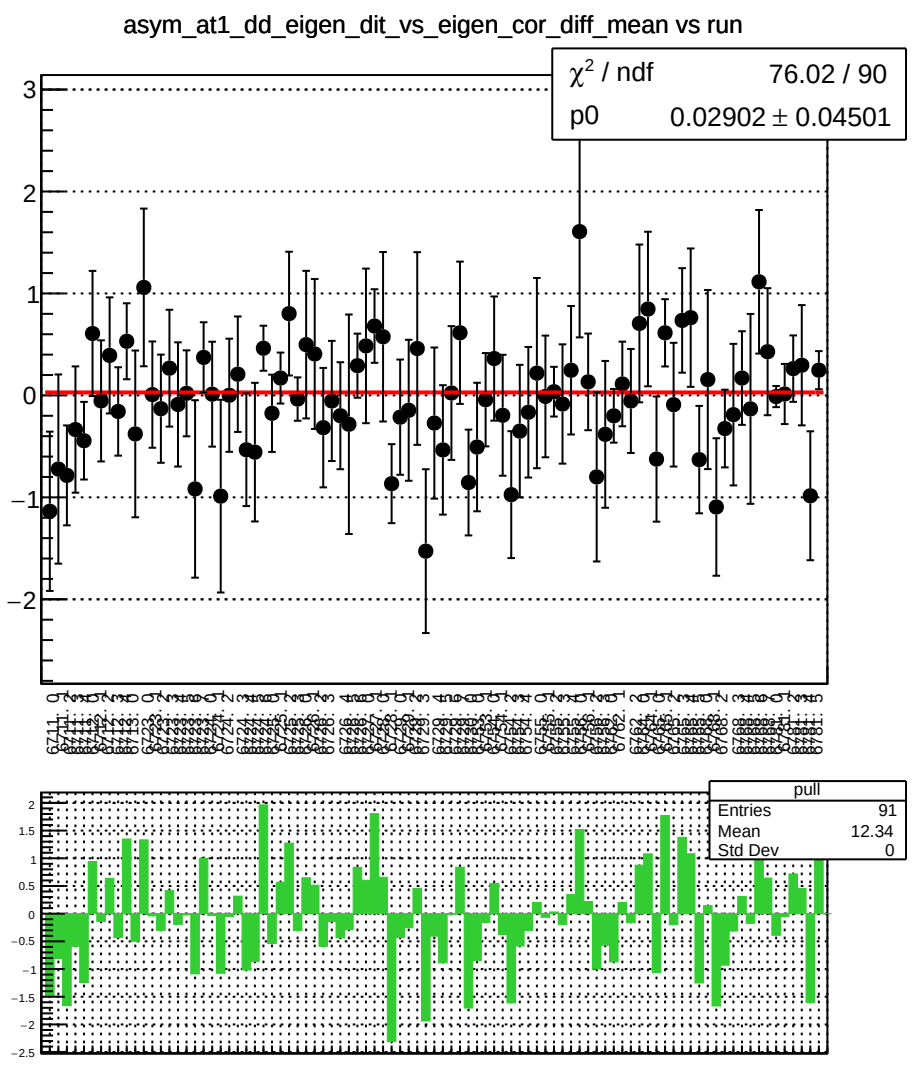

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.58 / 90
p0 1.612e−06 ± 1.413e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean −261.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.002811
Std Dev 0.9977
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

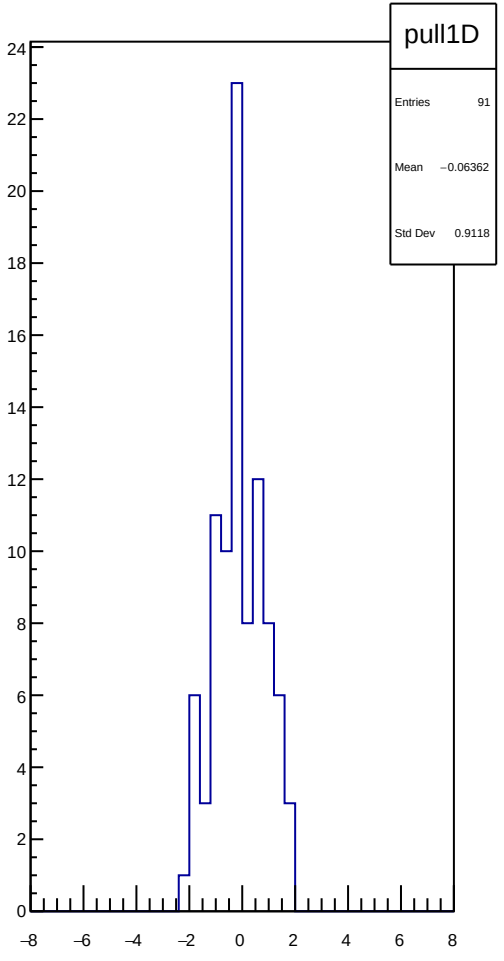

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.518e+04 / 90
p0 0.001337 ± 9.994e−07
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

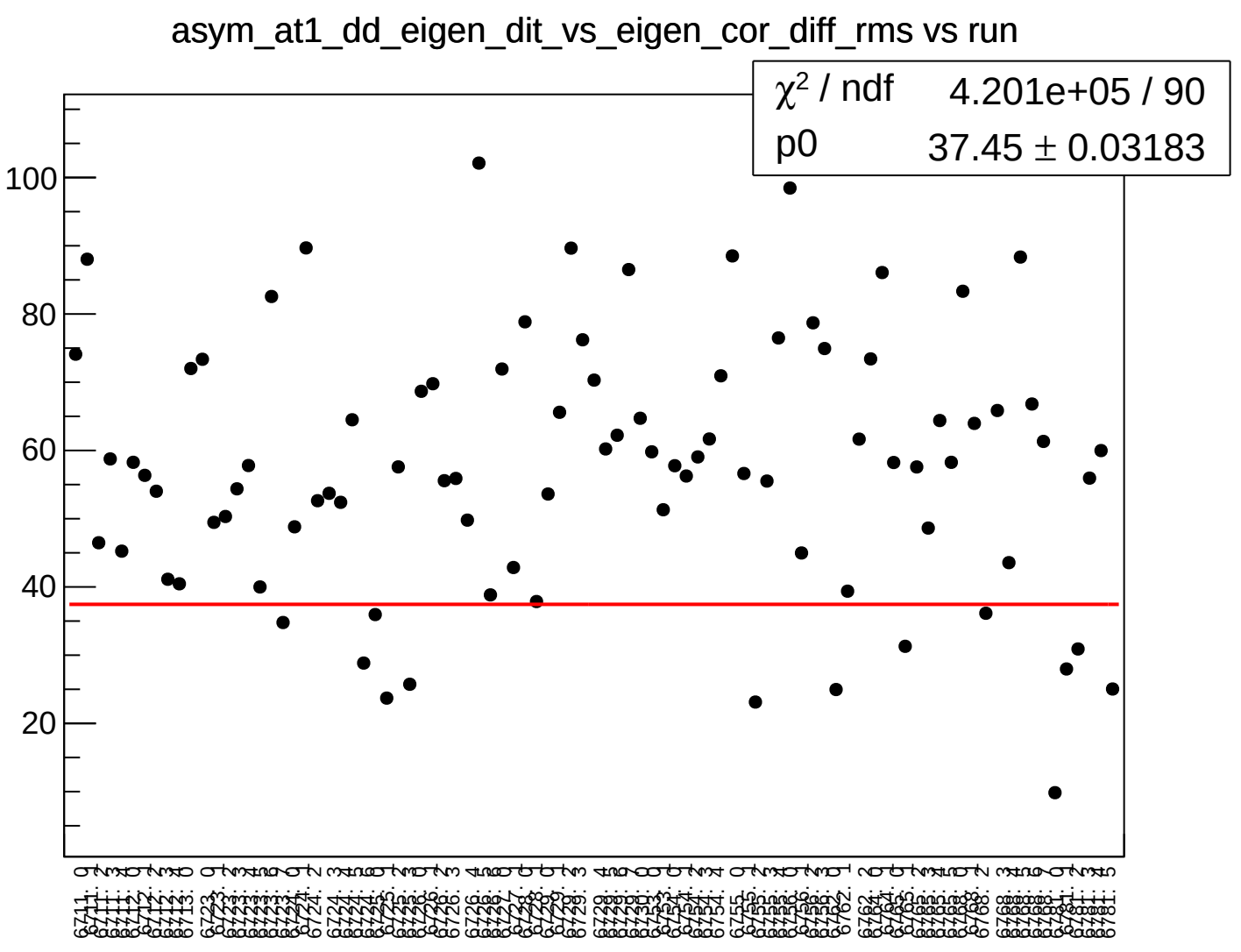

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.02 / 90
p0 0.02902 ± 0.04501
pull
Entries 91
Mean 12.34
Std Dev 0

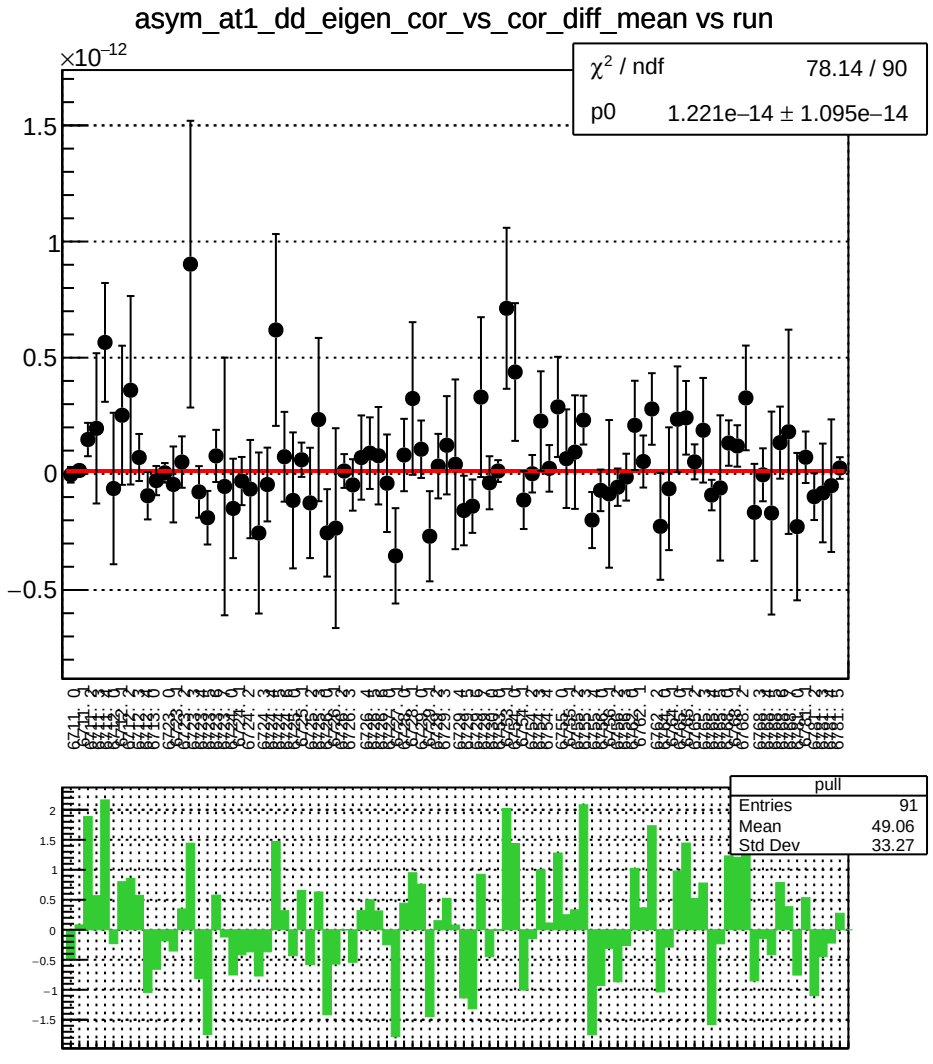

pull1D
Entries 91
Mean −0.06362
Std Dev 0.9118

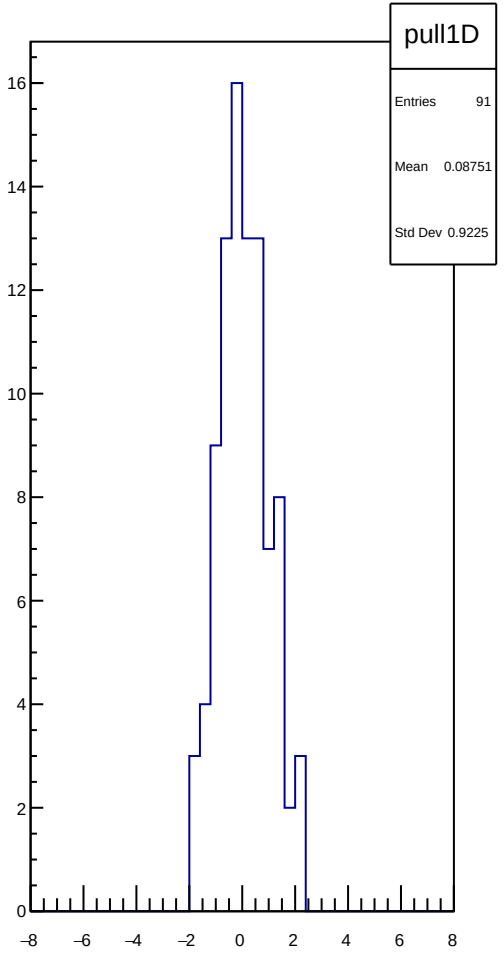

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.201e+05 / 90
p0 37.45 ± 0.03183
100
80
60
40
20

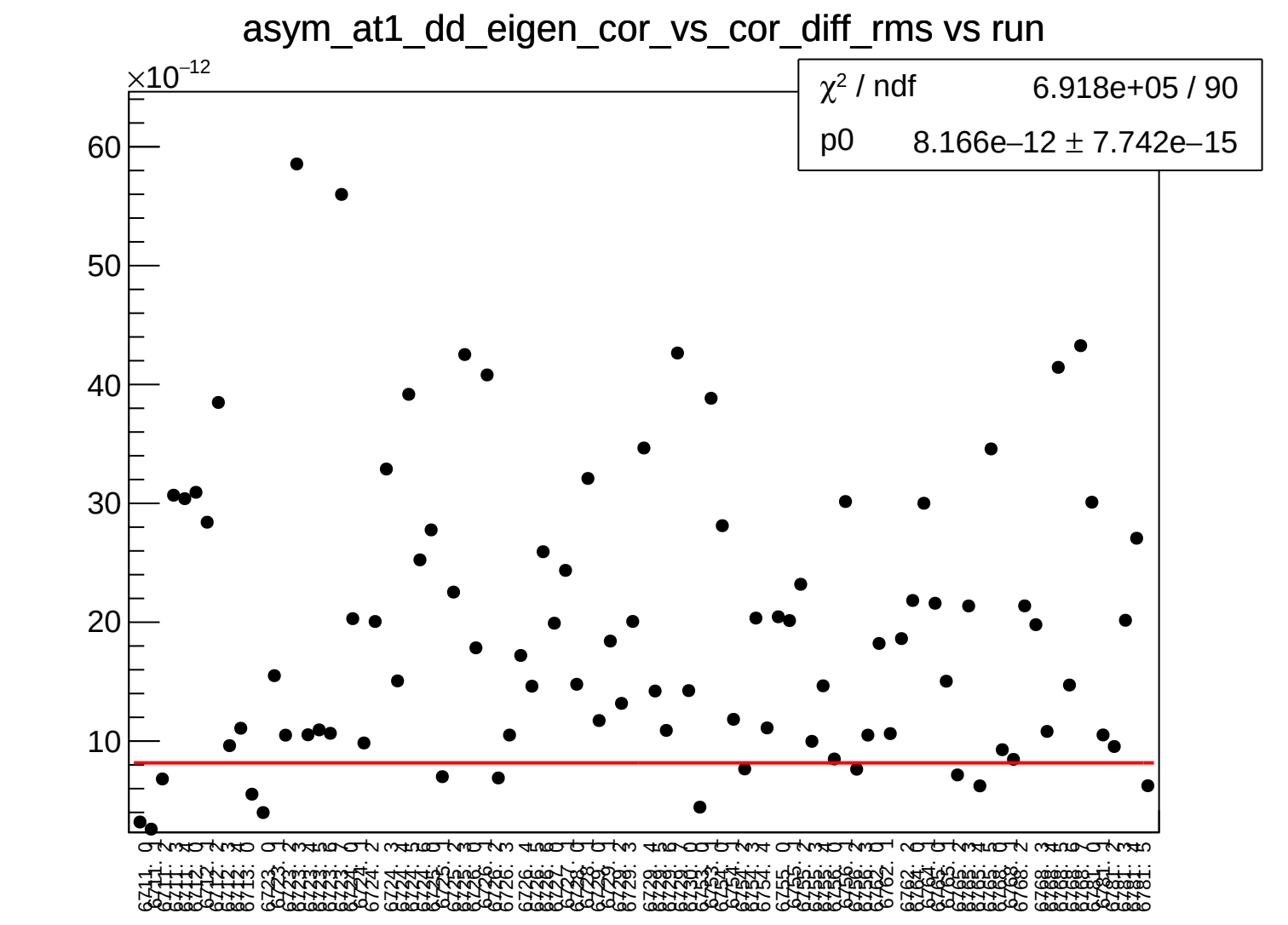

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.02 / 90
p0 0.02902 ± 0.04501
pull
Entries 91
Mean 12.34
Std Dev 0

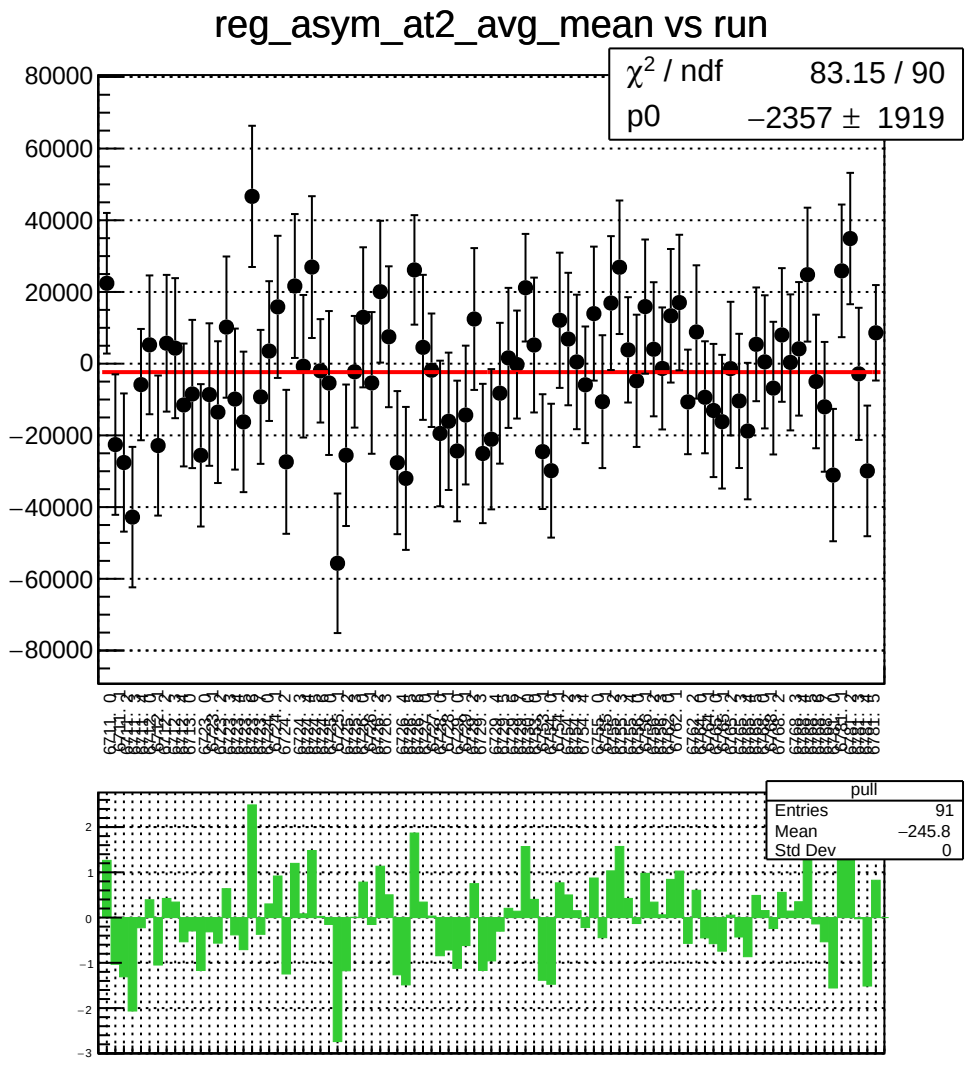

pull1D
Entries 91
Mean −0.06362
Std Dev 0.9118

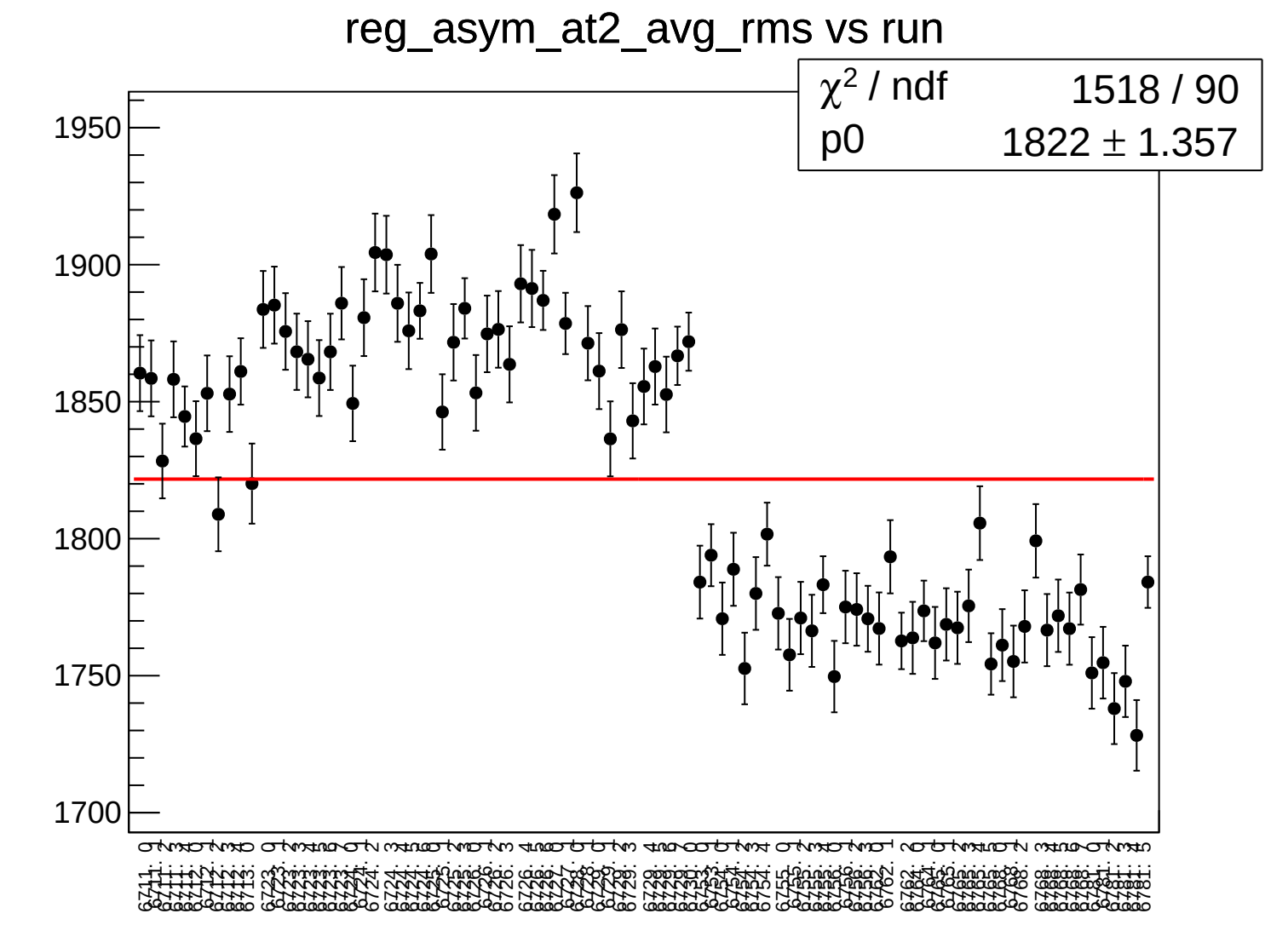

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.201e+05 / 90
p0 37.45 ± 0.03183
100
80
60
40
20

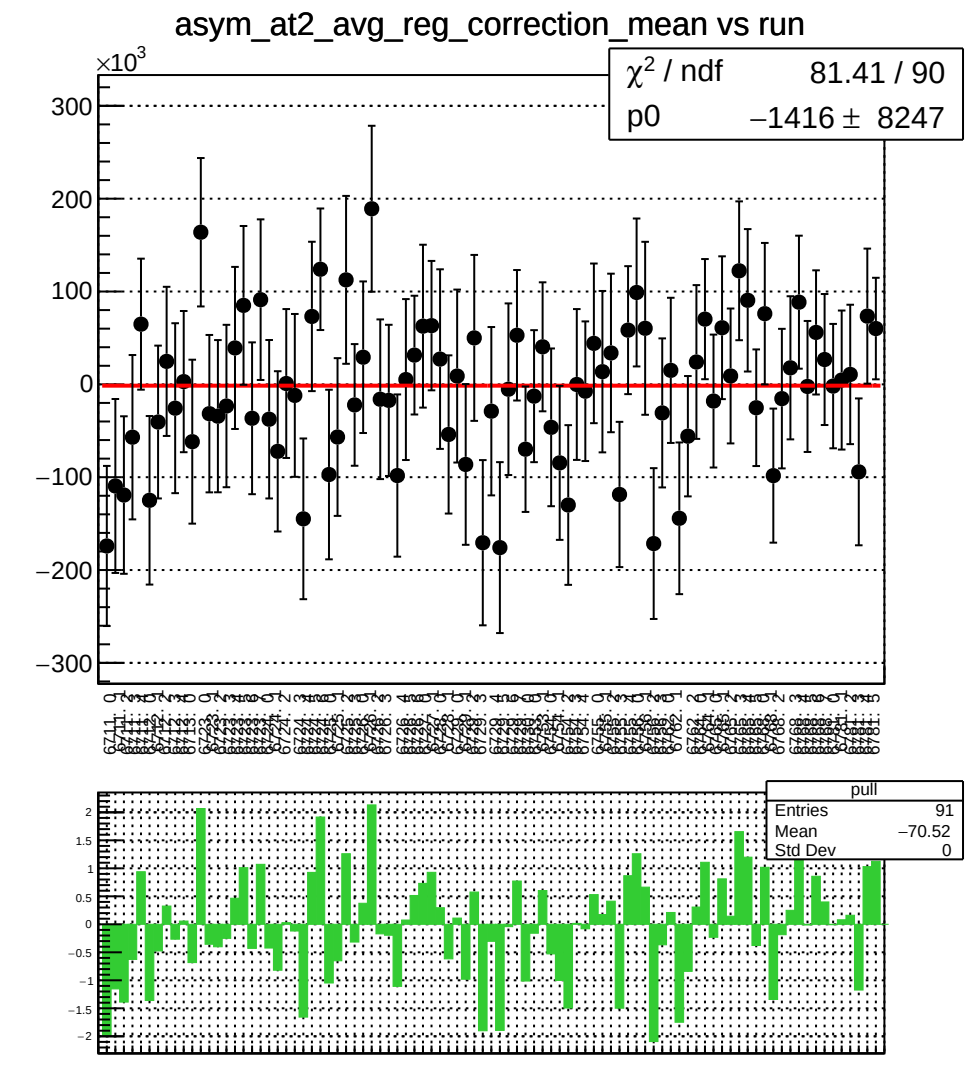

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.14 / 90
p0 1.221e−14 ± 1.095e−14
1.5
1
0.5
0
−0.5
pull
Entries 91
Mean 49.06
Std Dev 33.27
2
1.5
1
0.5
0
−0.5
−1
−1.5

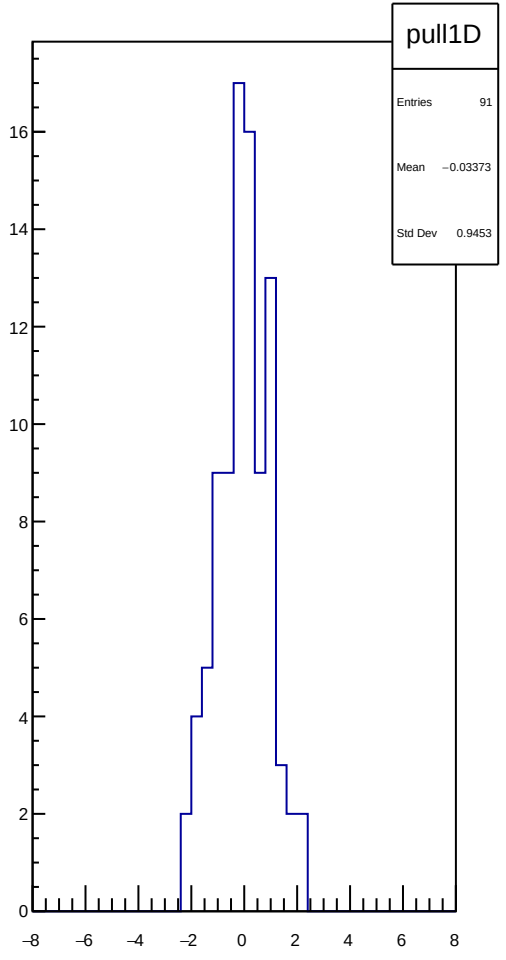

pull1D
Entries 91
Mean 0.08751
Std Dev 0.9225
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

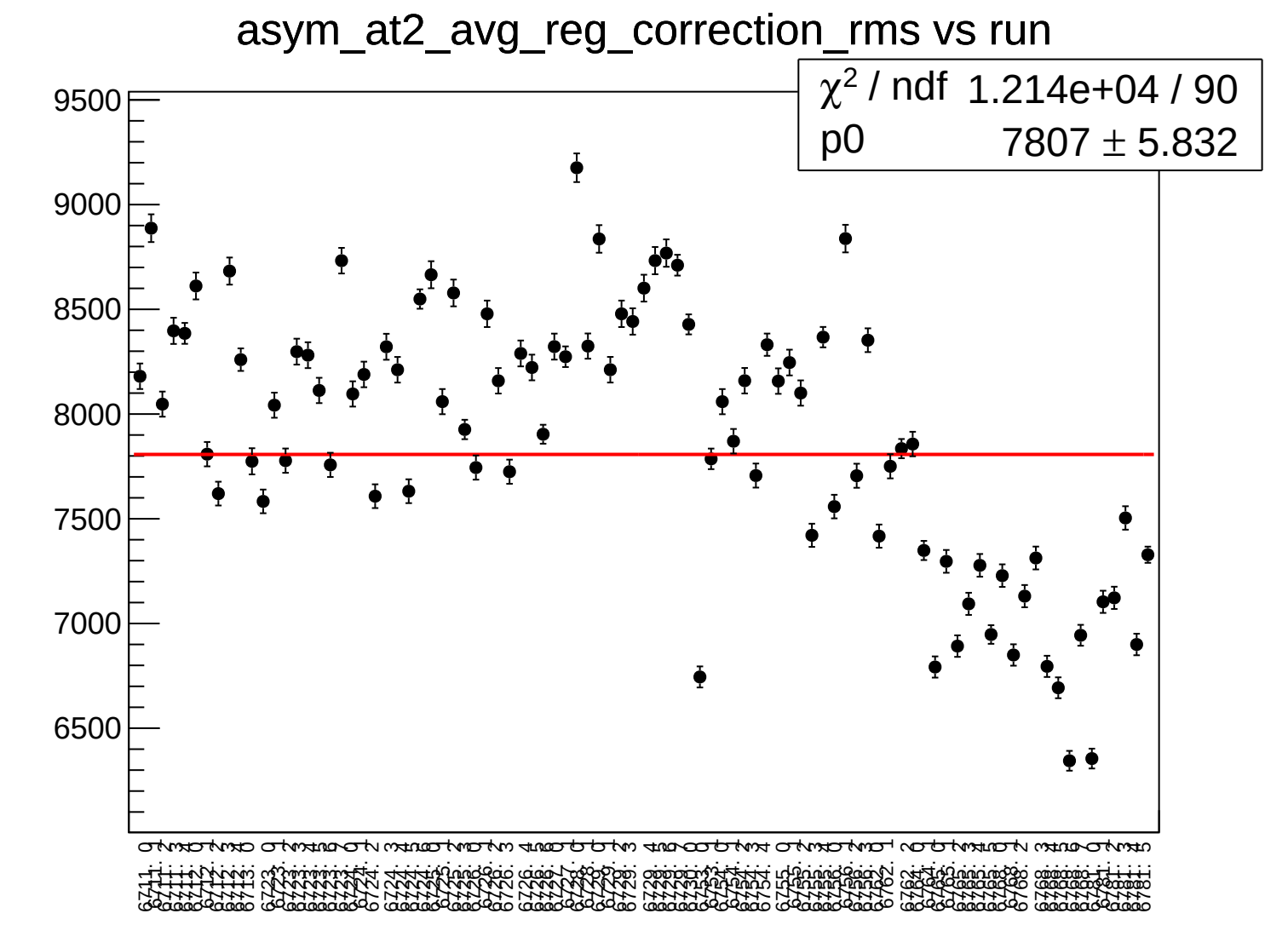

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.918e+05 / 90
p0 8.166e−12 ± 7.742e−15
60
50
40
30
20
10

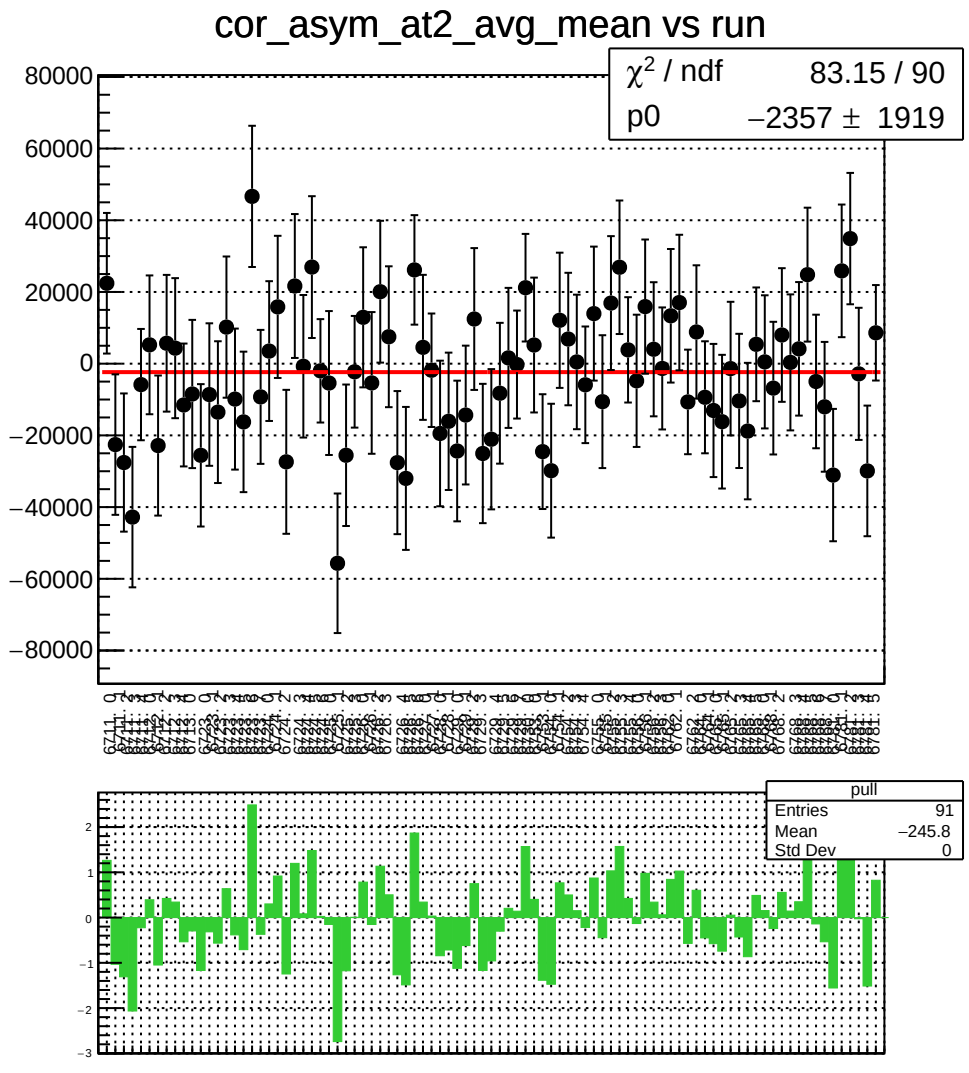

reg_asym_at2_avg_mean vs run
χ² / ndf 83.15 / 90
p0 −2357 ± 1919
pull
Entries 91
Mean −245.8
Std Dev 0
pull1D
Entries 91
Mean −0.01333
Std Dev 0.9558

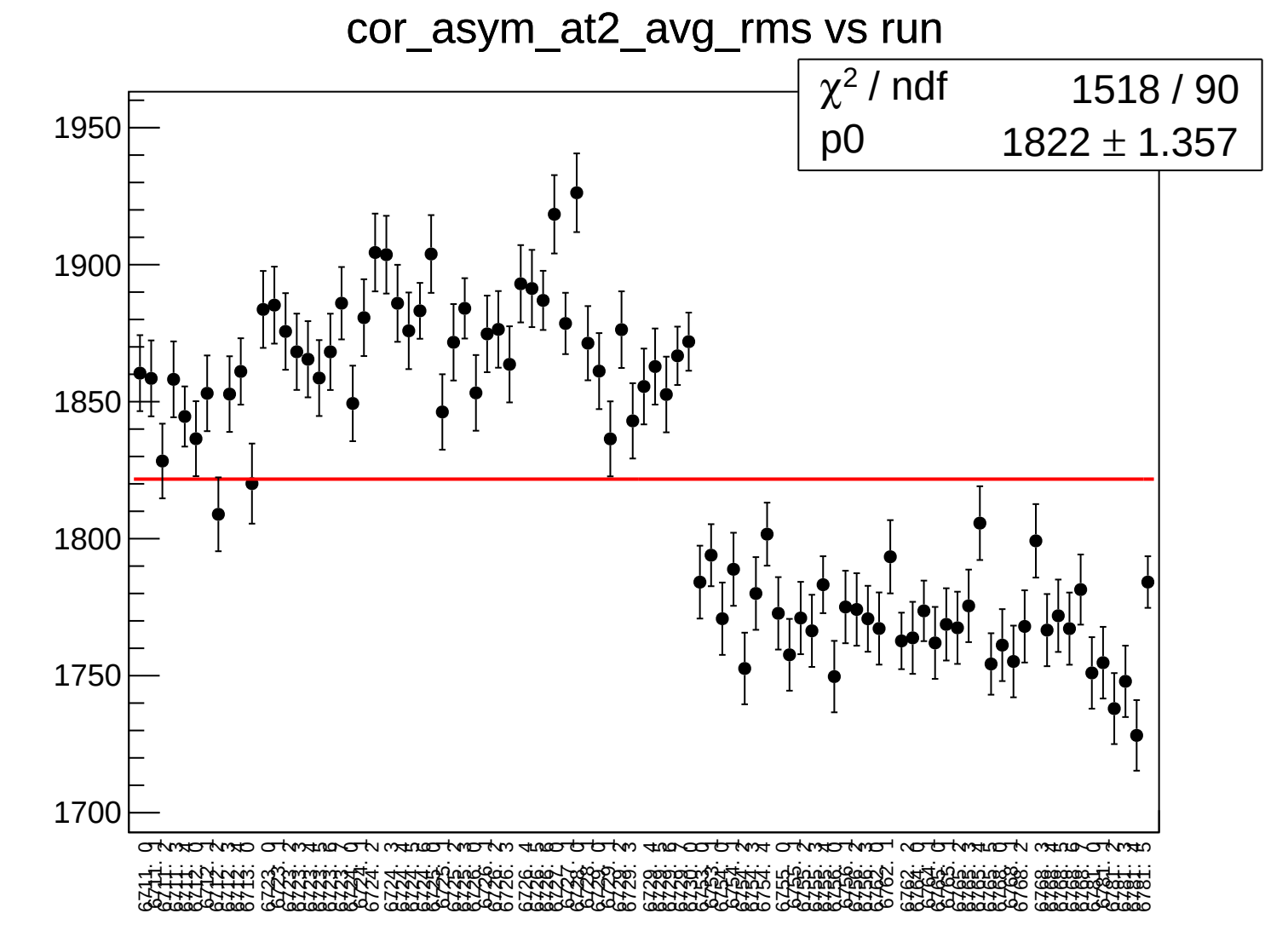

reg_asym_at2_avg_rms vs run
χ² / ndf 1518 / 90
p0 1822 ± 1.357
1950
1900
1850
1800
1750
1700

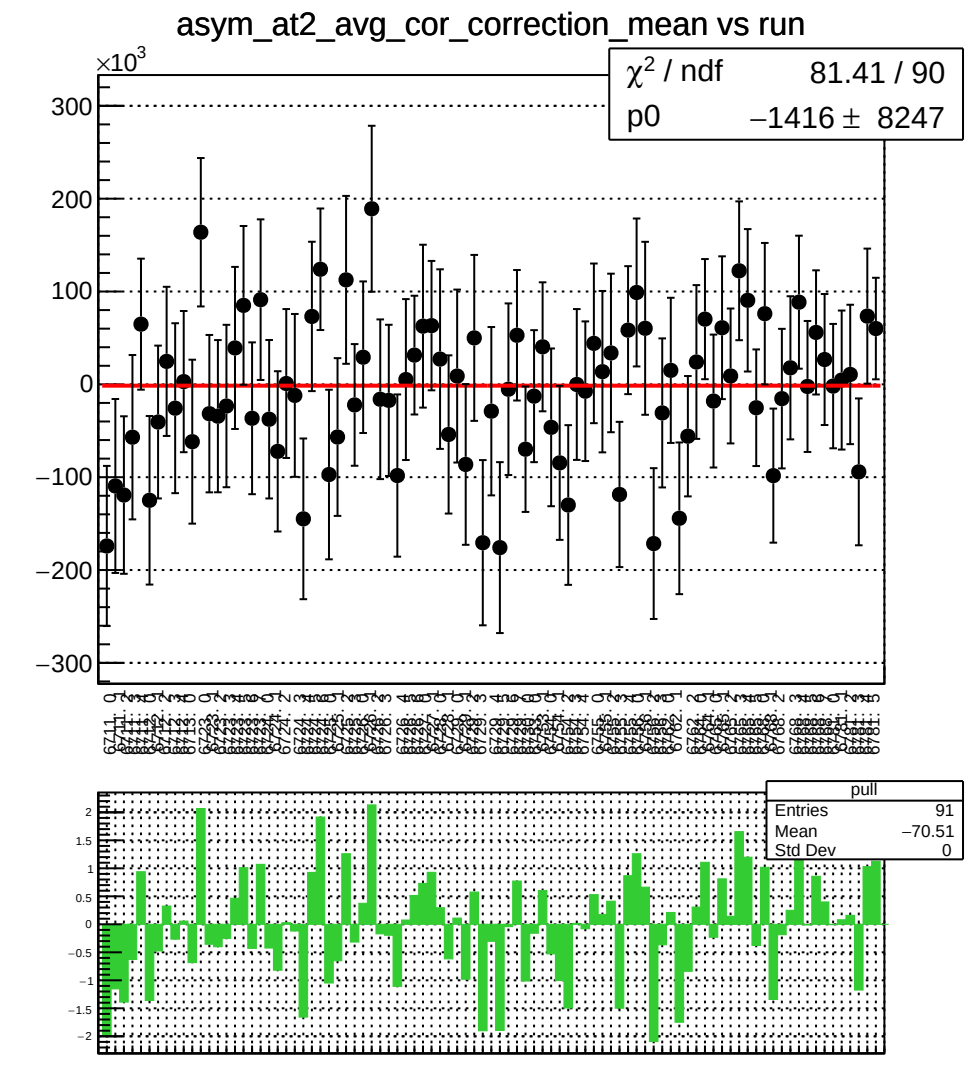

asym_at2_avg_reg_correction_mean vs run
χ² / ndf 81.41 / 90
p0 −1416 ± 8247
×10³
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −70.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

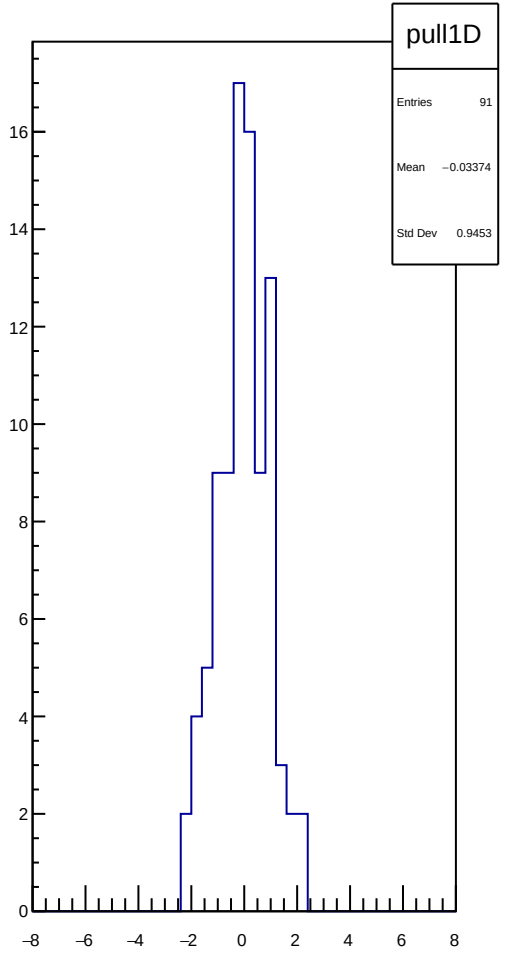

pull1D
Entries 91
Mean −0.03373
Std Dev 0.9453
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

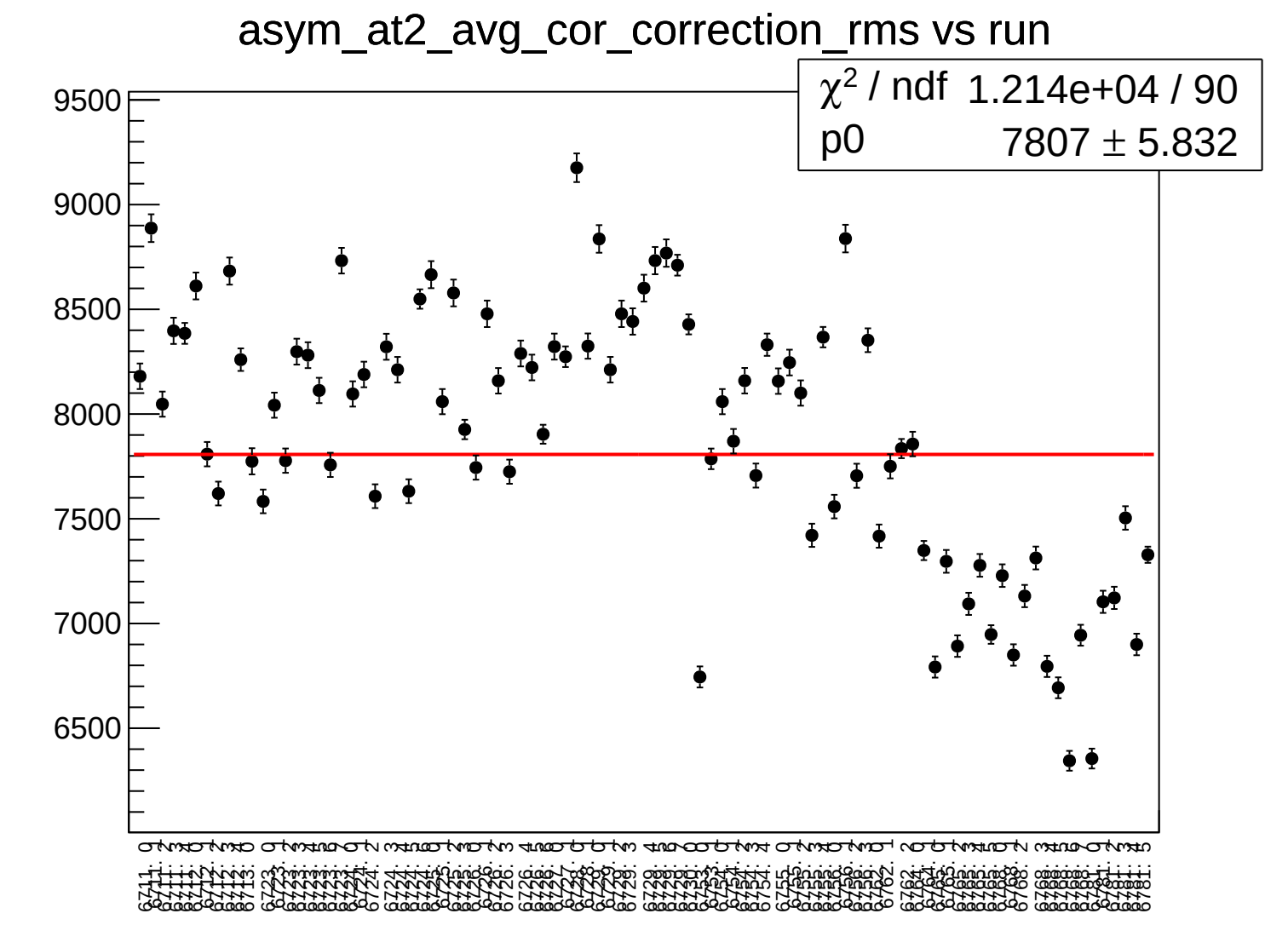

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 1.214e+04 / 90
p0 7807 ± 5.832
9500
9000
8500
8000
7500
7000
6500

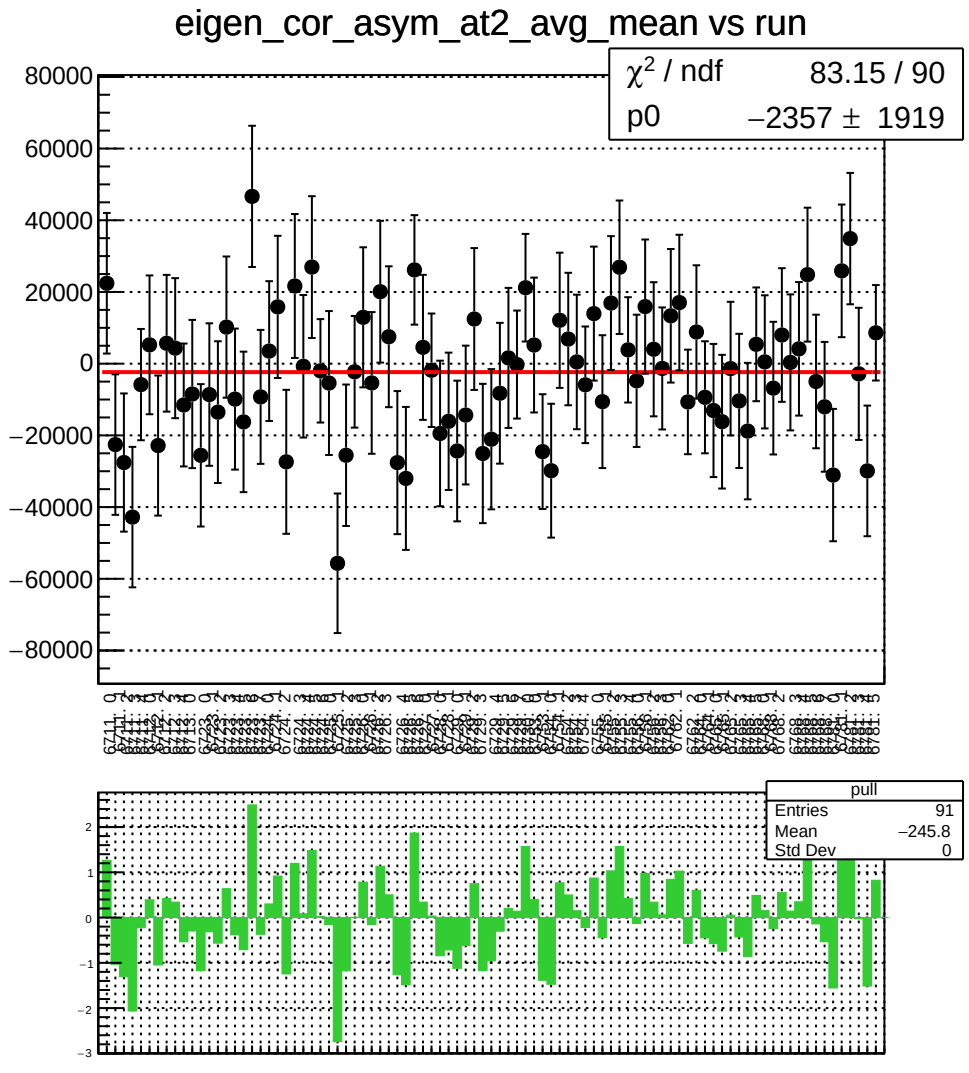

cor_asym_at2_avg_mean vs run
χ² / ndf 83.15 / 90
p0 −2357 ± 1919
pull
Entries 91
Mean −245.8
Std Dev 0
pull1D
Entries 91
Mean −0.01333
Std Dev 0.9558

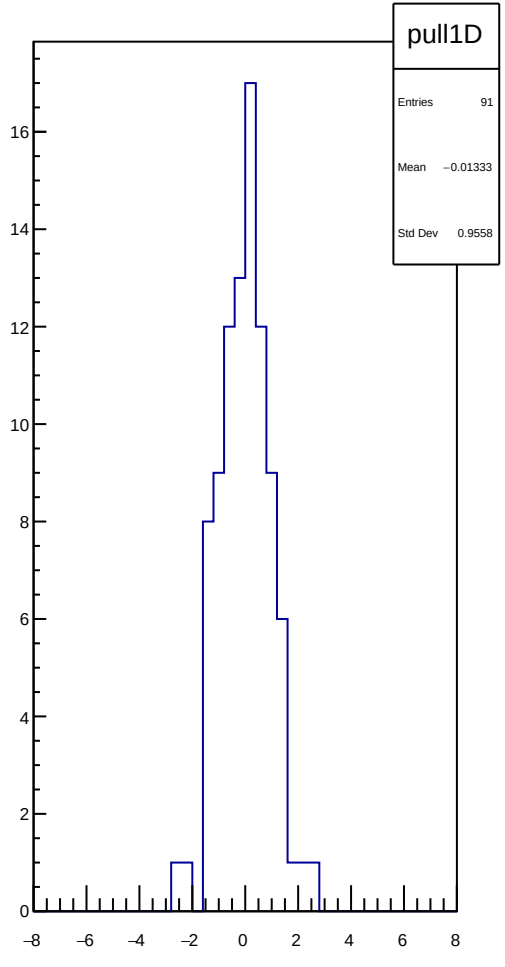

cor_asym_at2_avg_rms vs run
χ^2 / ndf 1518 / 90
p0 1822 ± 1.357
1950
1900
1850
1800
1750
1700

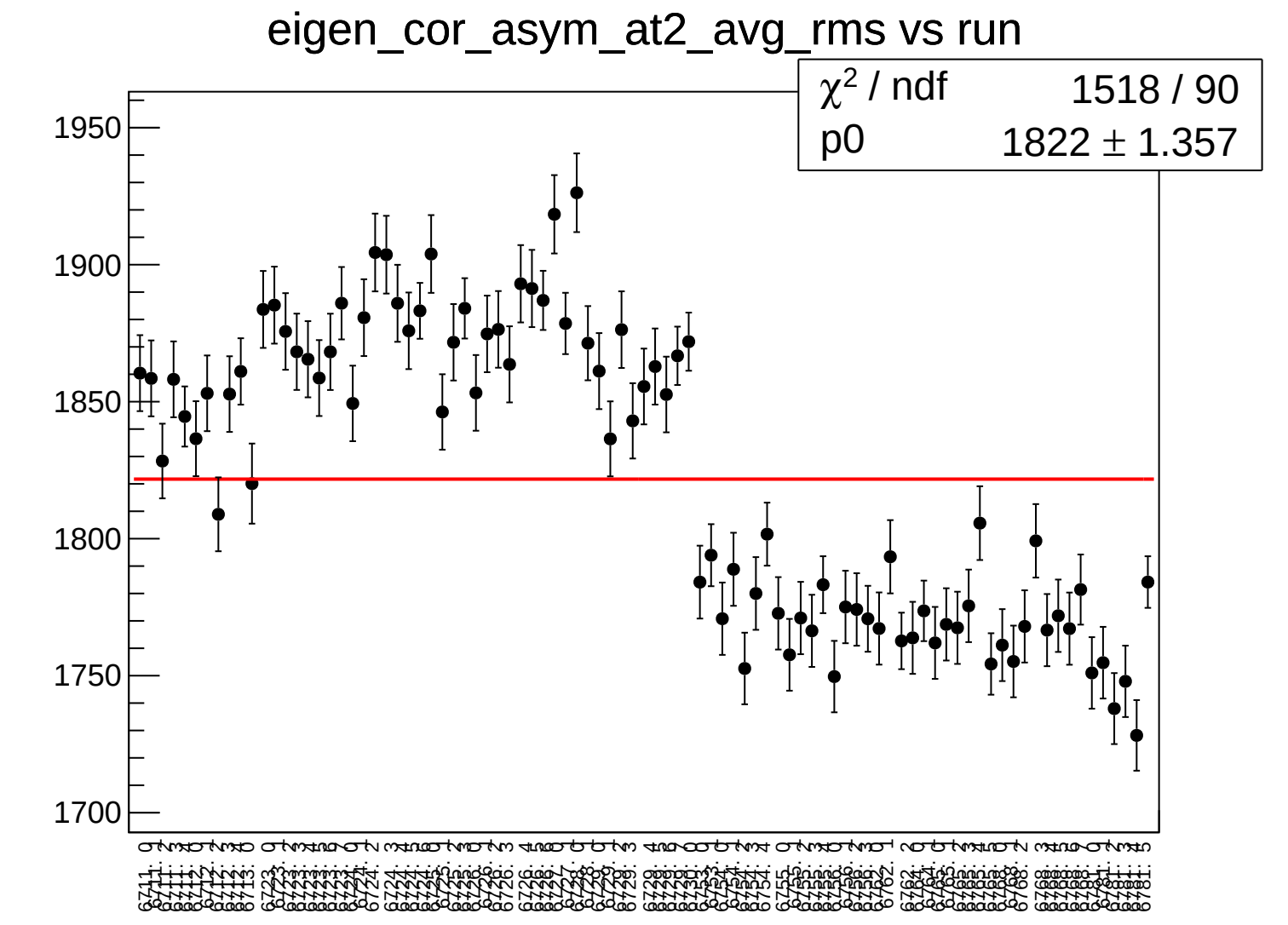

asym_at2_avg_cor_correction_mean vs run
χ² / ndf 81.41 / 90
p0 −1416 ± 8247
×10³
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −70.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

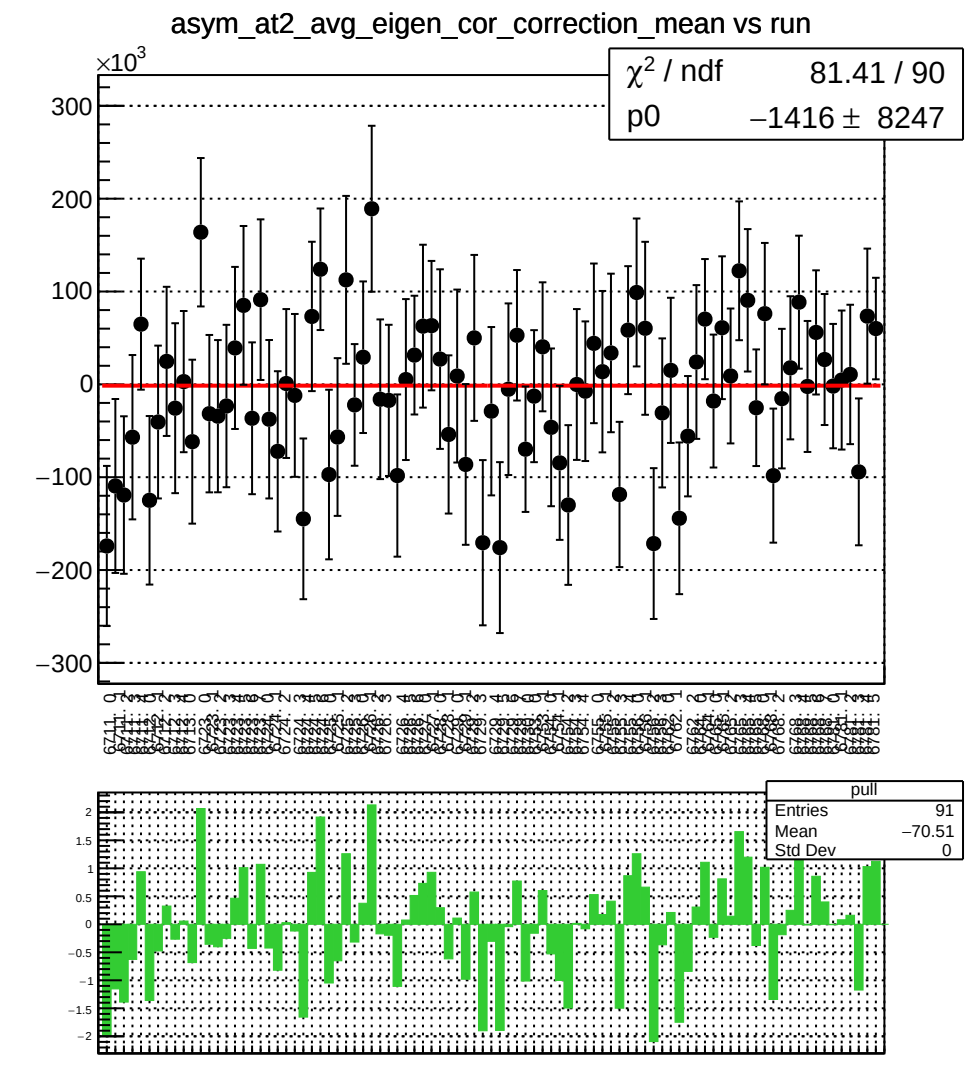

pull1D
Entries 91
Mean −0.03374
Std Dev 0.9453
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

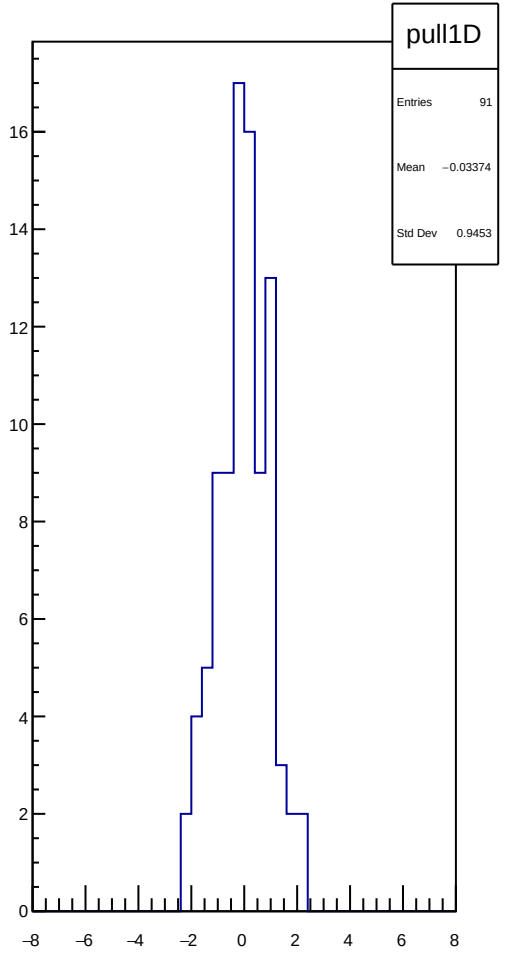

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 1.214e+04 / 90
p0 7807 ± 5.832
9500
9000
8500
8000
7500
7000
6500

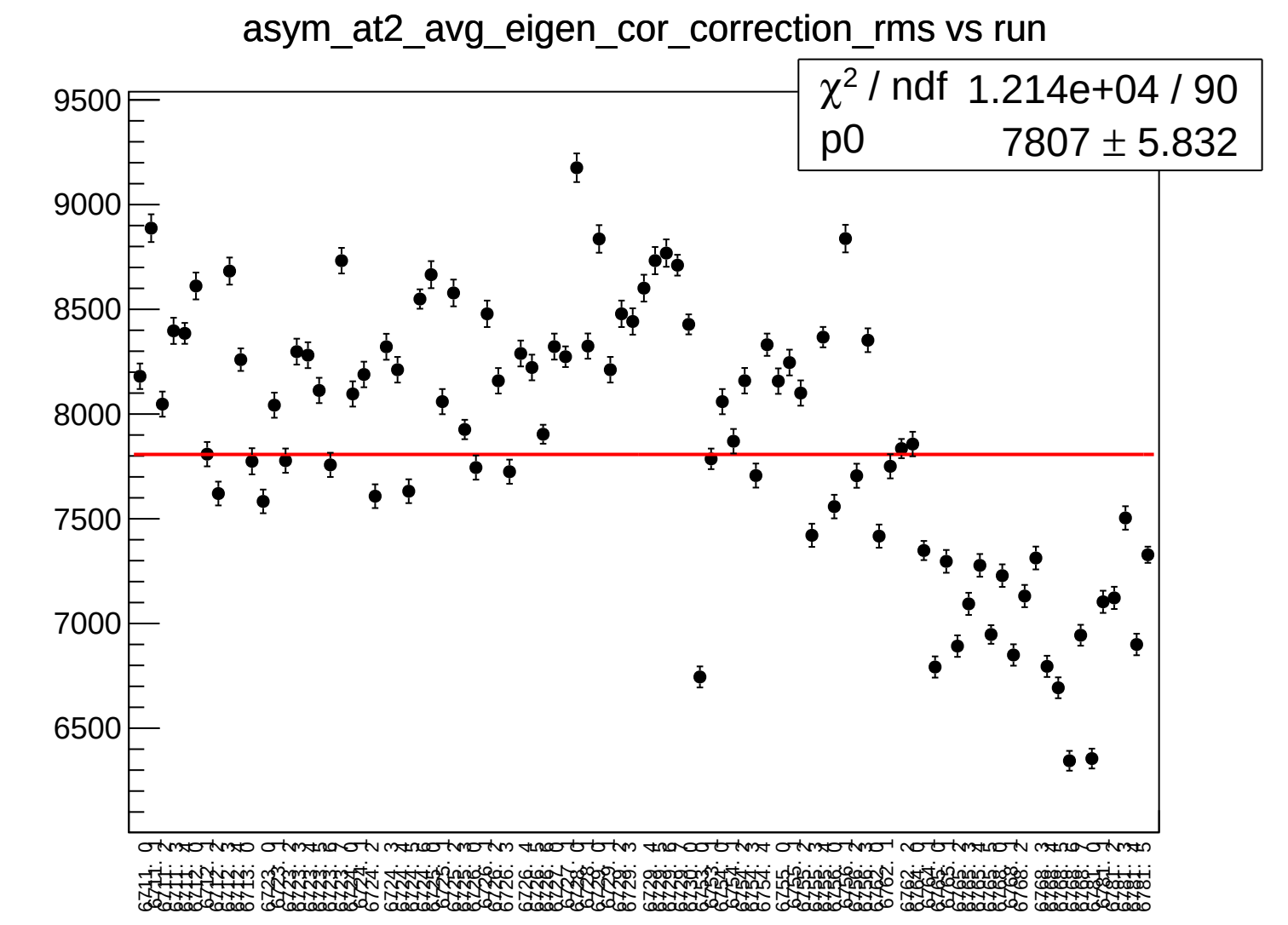

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 83.15 / 90
p0 −2357 ± 1919
pull
Entries 91
Mean −245.8
Std Dev 0

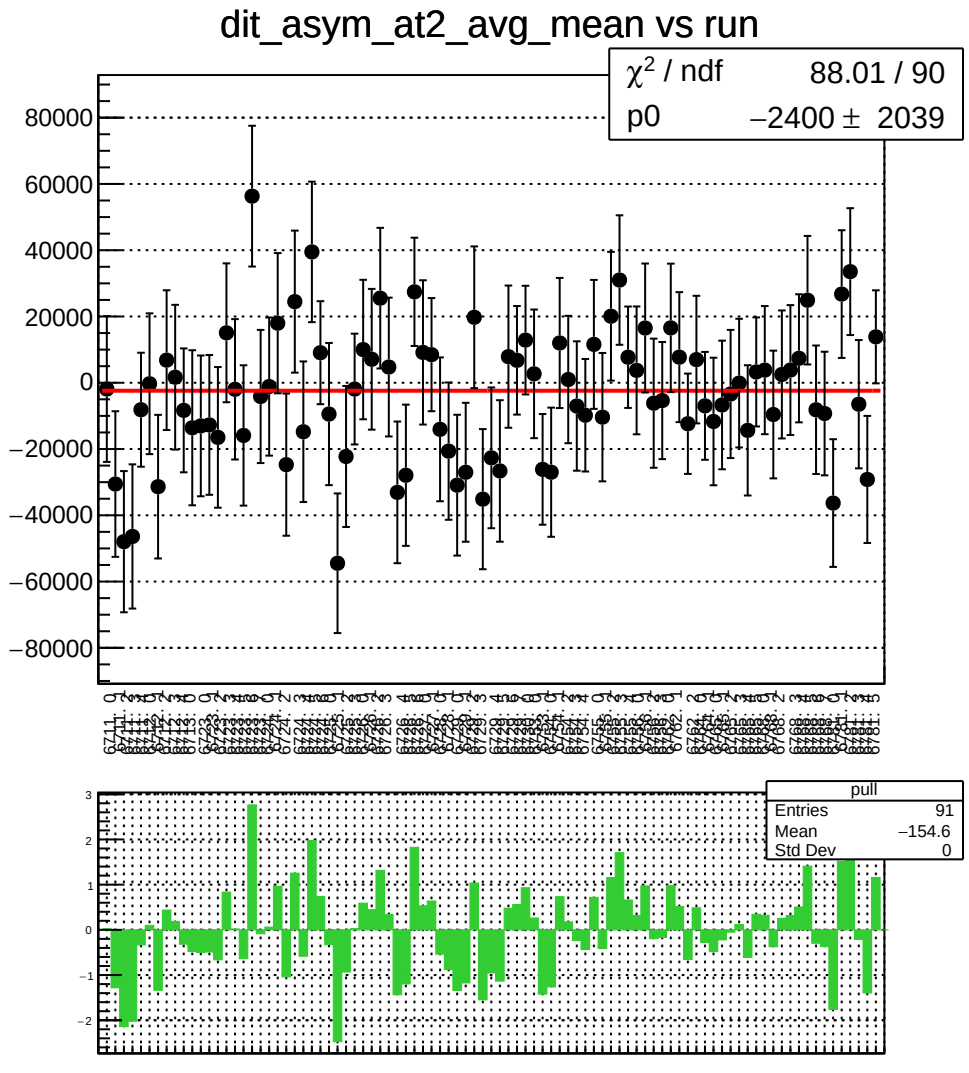

pull1D
Entries 91
Mean −0.01333
Std Dev 0.9558

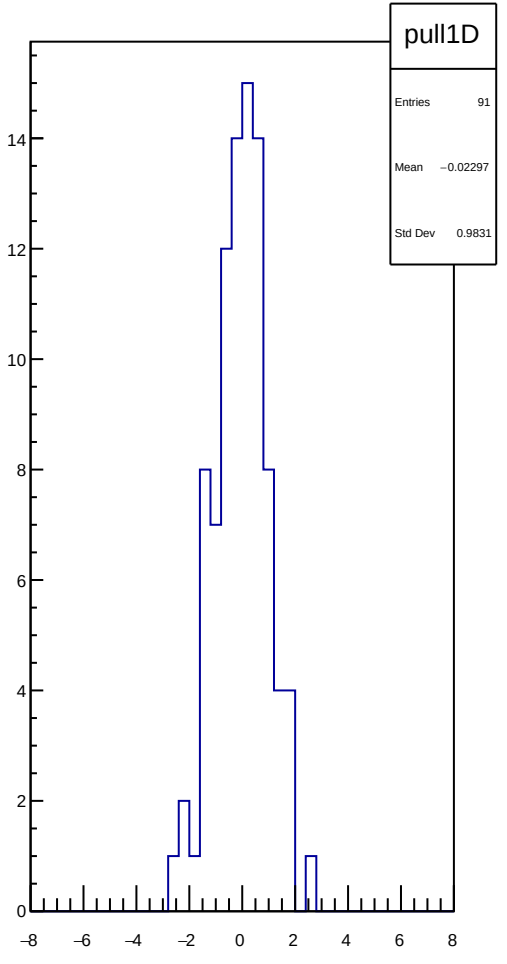

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 1518 / 90
p0 1822 ± 1.357
1950
1900
1850
1800
1750
1700

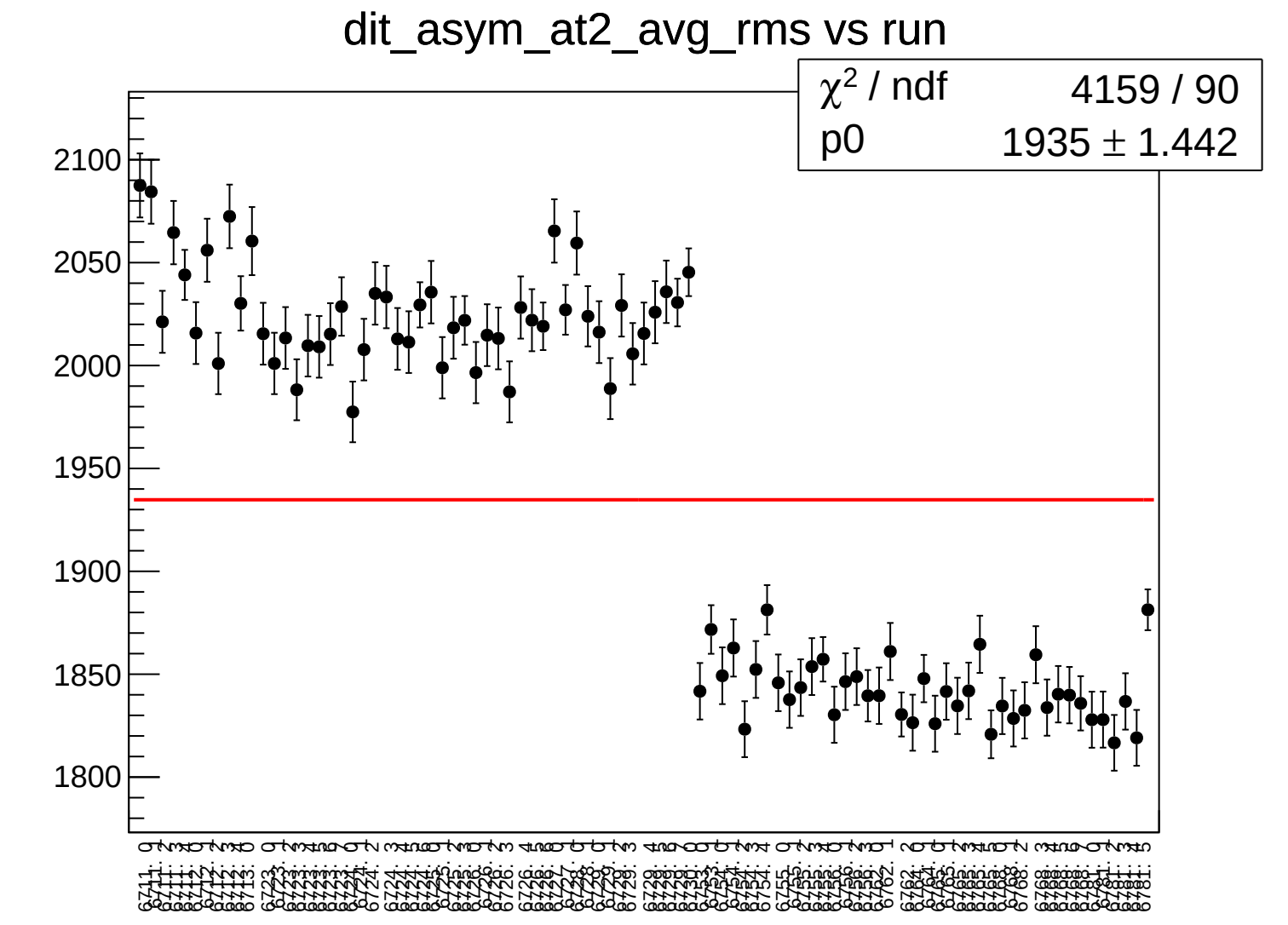

asym_at2_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.41 / 90
p0 −1416 ± 8247
×10³
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −70.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

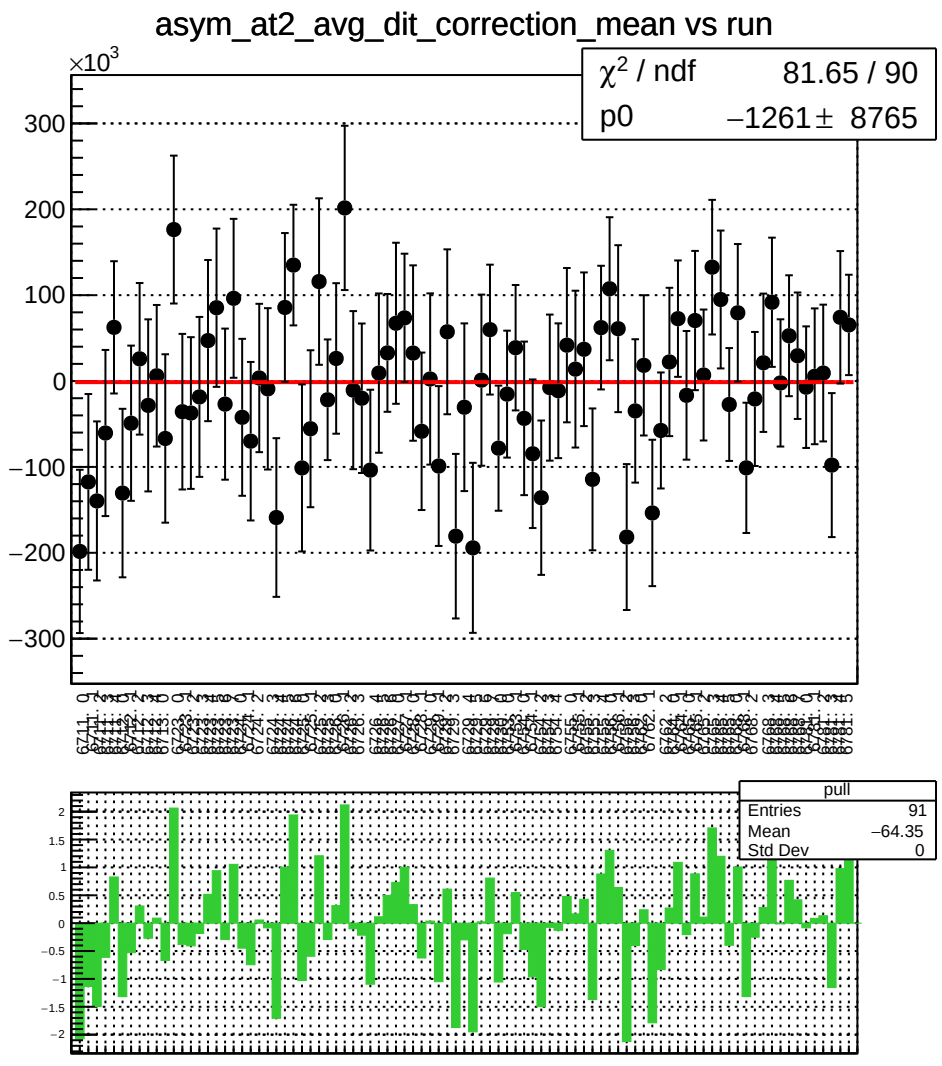

pull1D
Entries 91
Mean −0.03374
Std Dev 0.9453
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

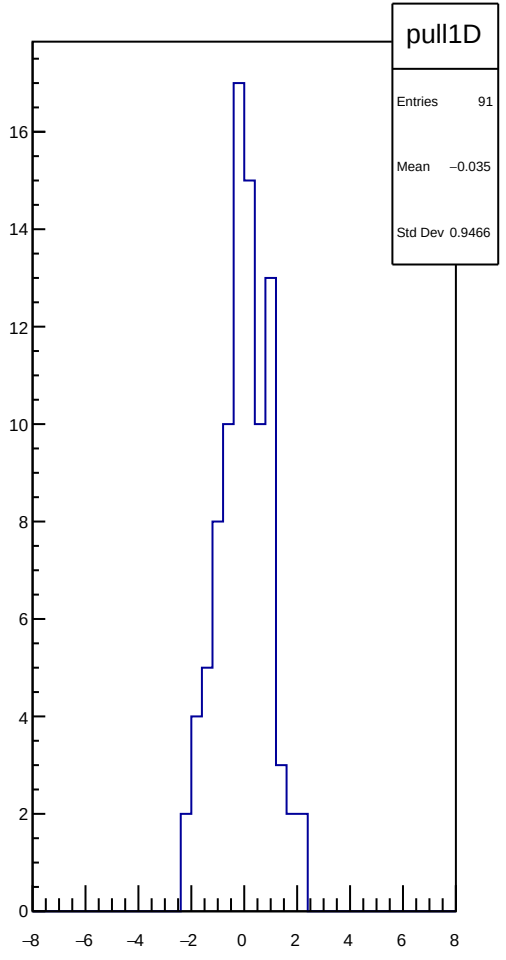

asym_at2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 1.214e+04 / 90
p0 7807 ± 5.832
9500
9000
8500
8000
7500
7000
6500

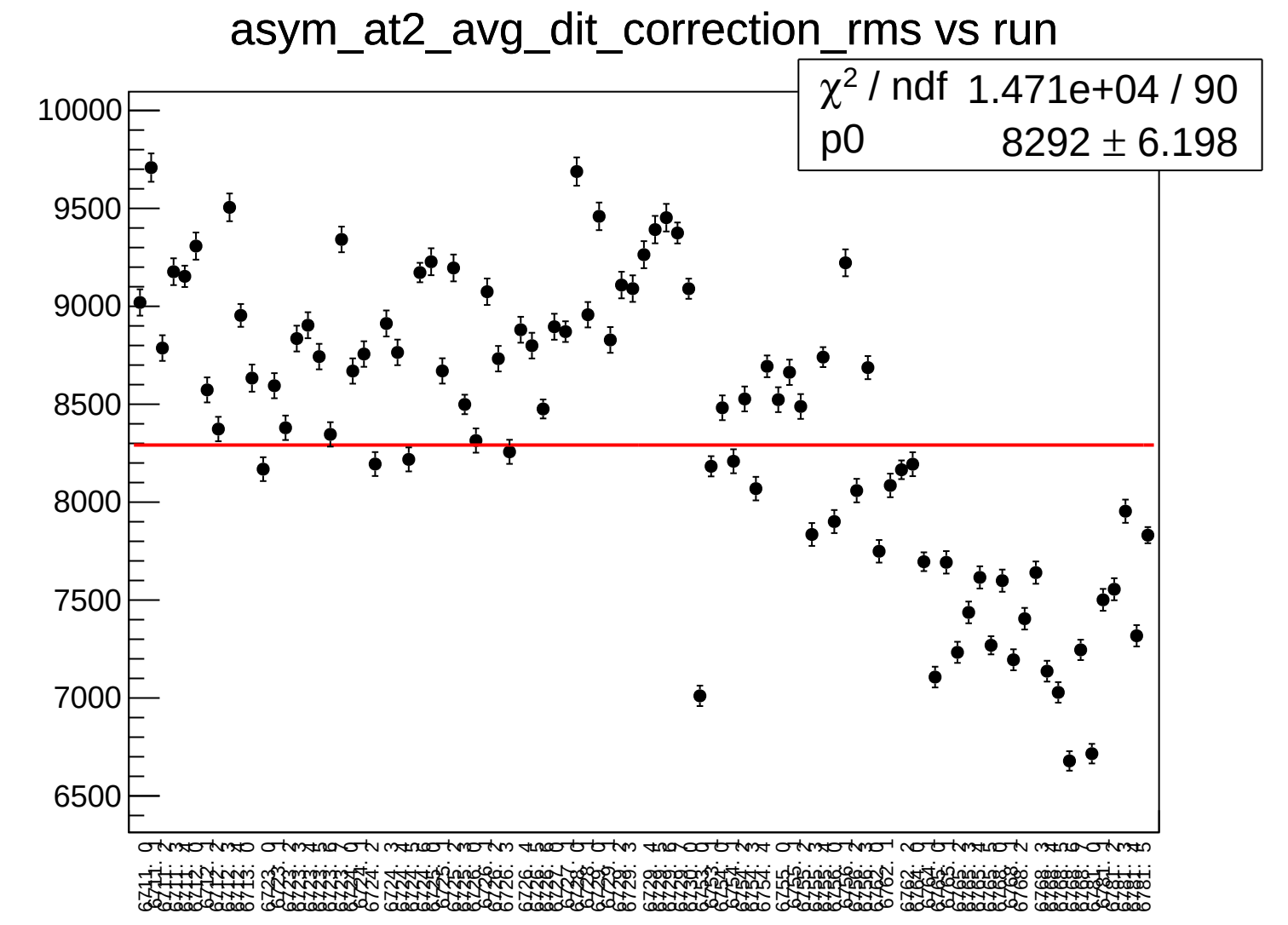

dit_asym_at2_avg_mean vs run
χ² / ndf 88.01 / 90
p0 −2400 ± 2039
pull
Entries 91
Mean −154.6
Std Dev 0

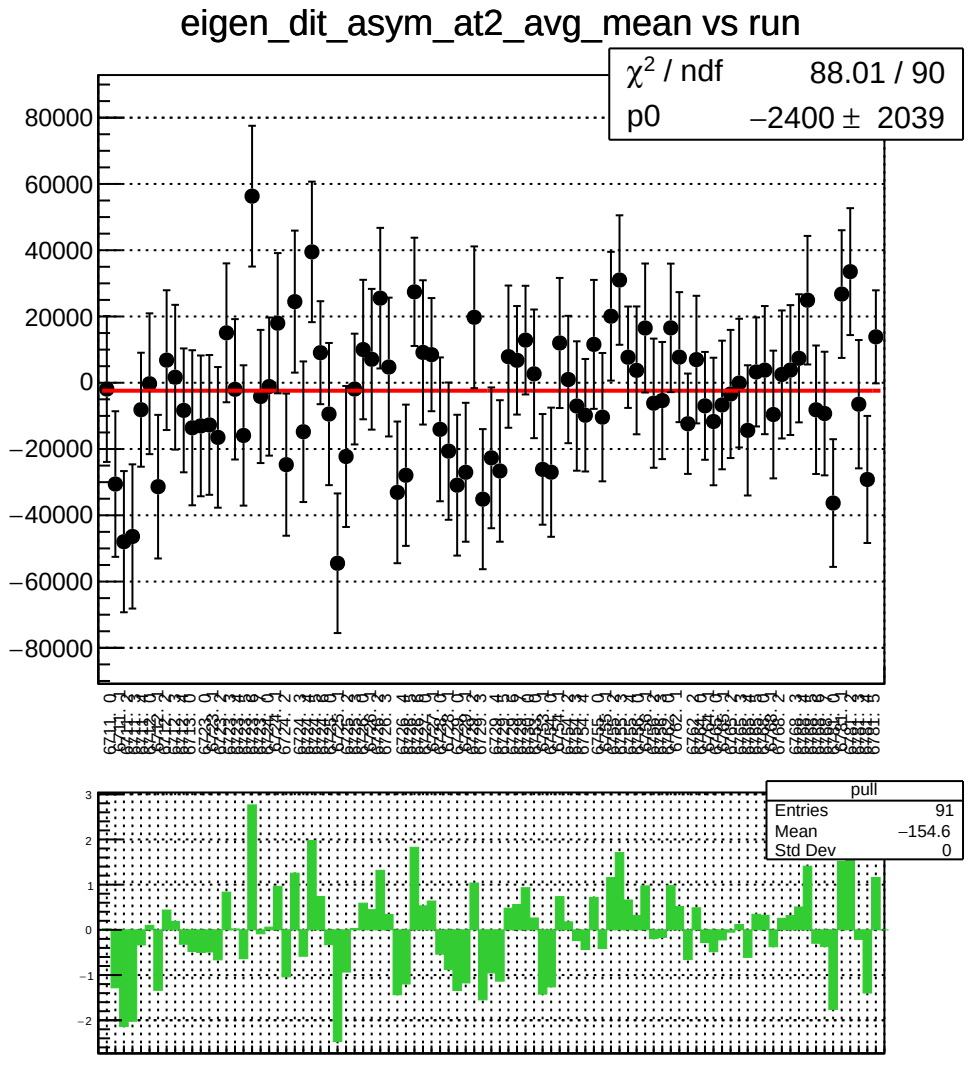

pull1D
Entries 91
Mean −0.02297
Std Dev 0.9831

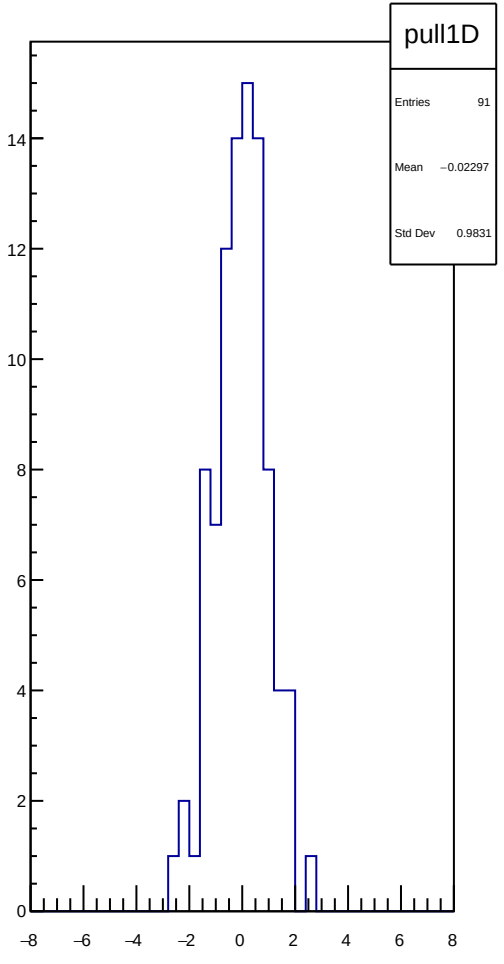

dit_asym_at2_avg_rms vs run
χ² / ndf 4159 / 90
p0 1935 ± 1.442
2100
2050
2000
1950
1900
1850
1800

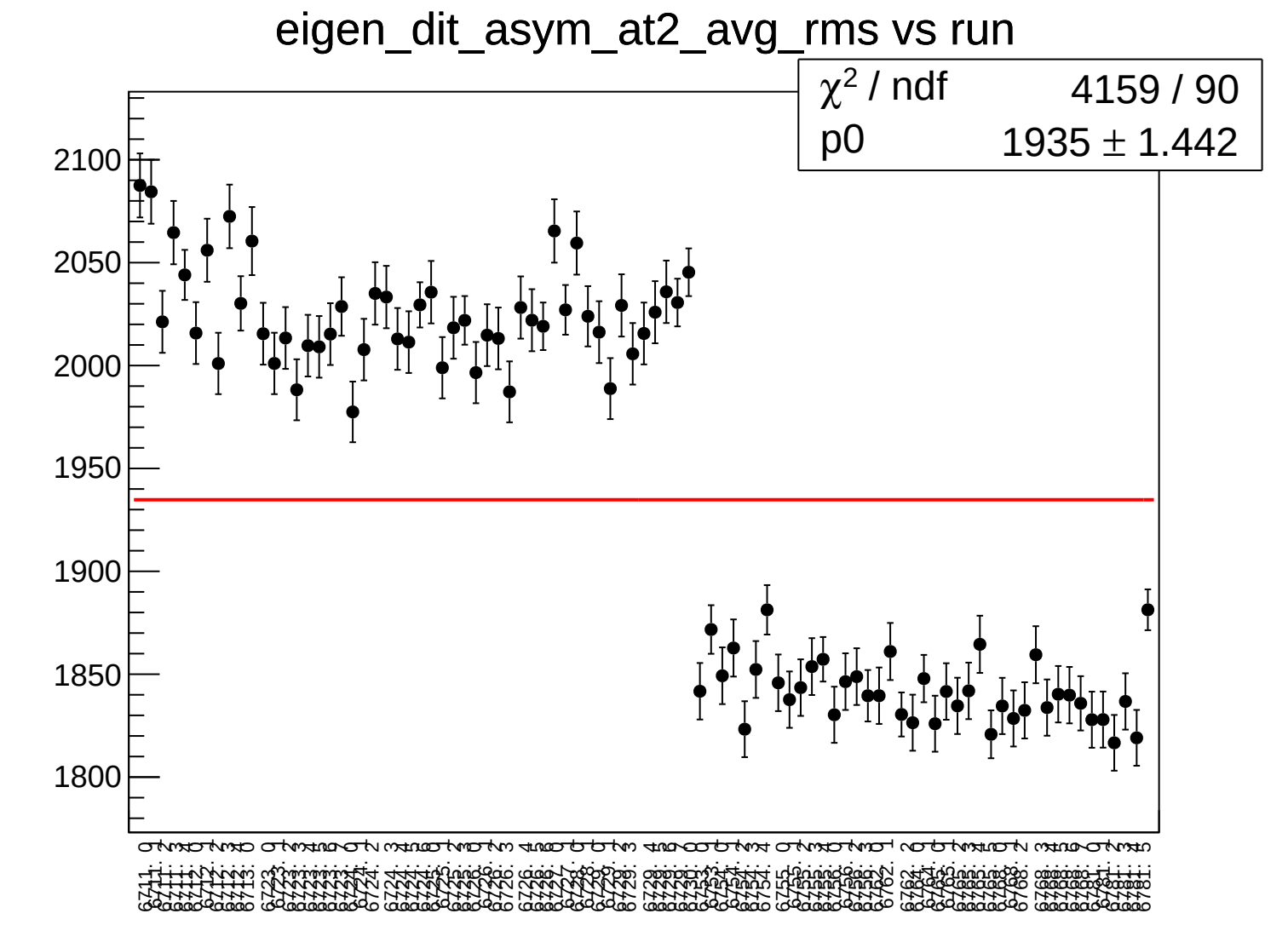

asym_at2_avg_dit_correction_mean vs run
χ² / ndf 81.65 / 90
p0 −1261 ± 8765
×10³
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −64.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

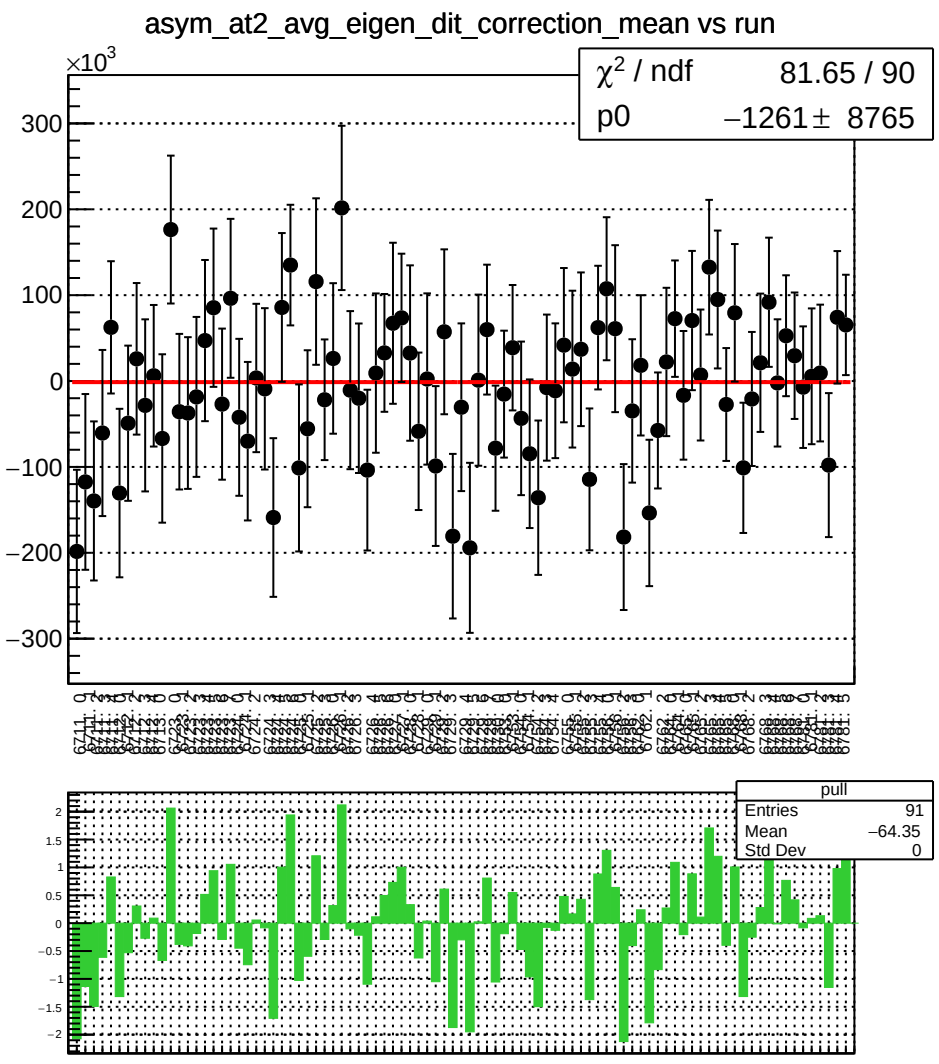

pull1D
Entries 91
Mean −0.035
Std Dev 0.9466
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

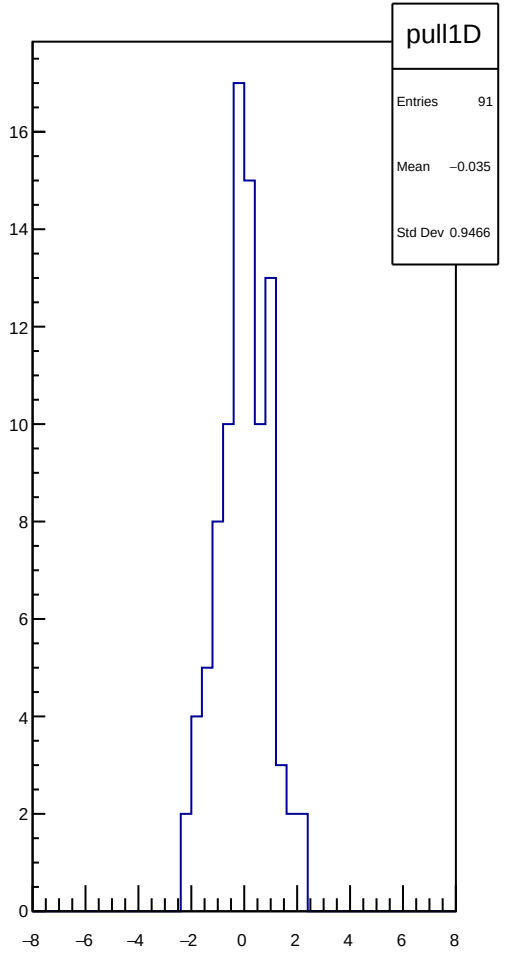

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 1.471e+04 / 90
p0 8292 ± 6.198
10000
9500
9000
8500
8000
7500
7000
6500

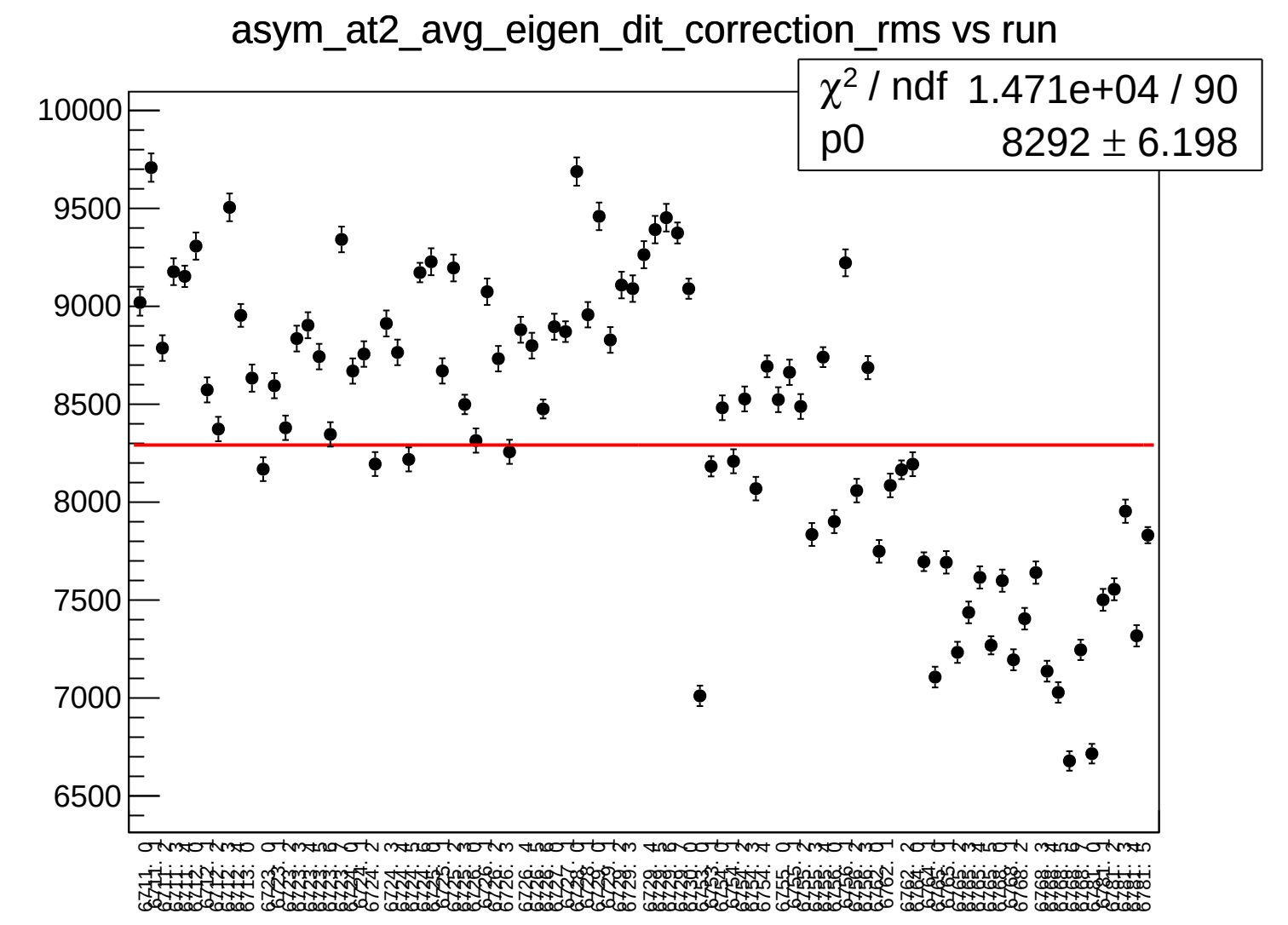

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 88.01 / 90
p0 −2400 ± 2039
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −154.6
Std Dev 0
3
2
1
0
−1
−2

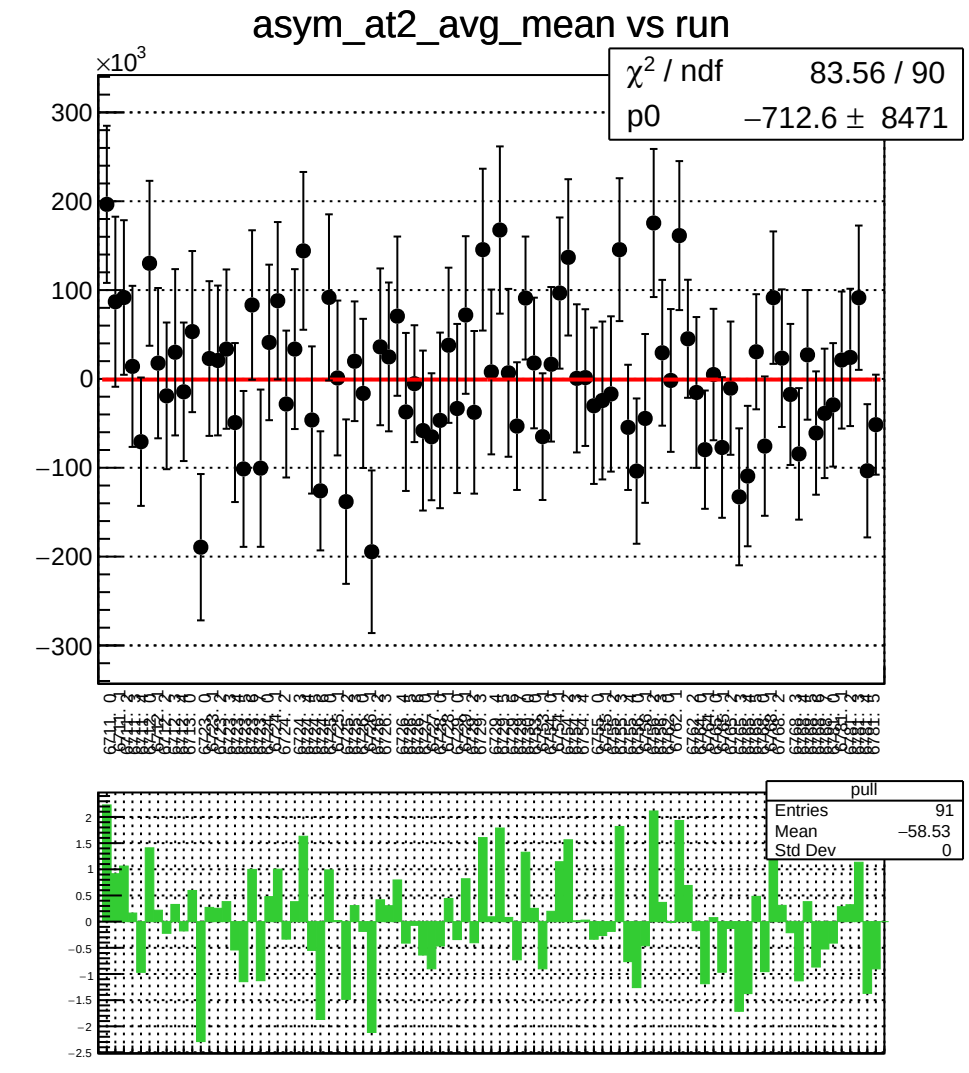

pull1D
Entries 91
Mean −0.02297
Std Dev 0.9831
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

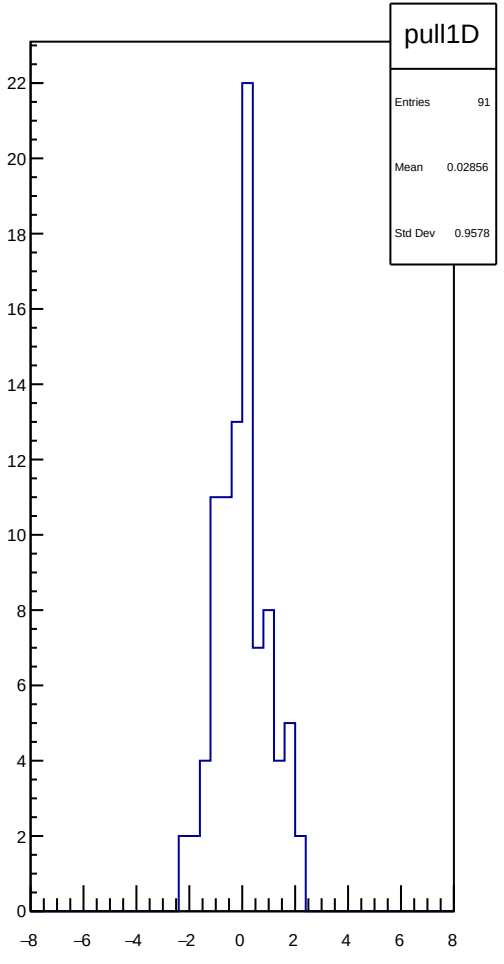

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 4159 / 90
p0 1935 ± 1.442
2100
2050
2000
1950
1900
1850
1800

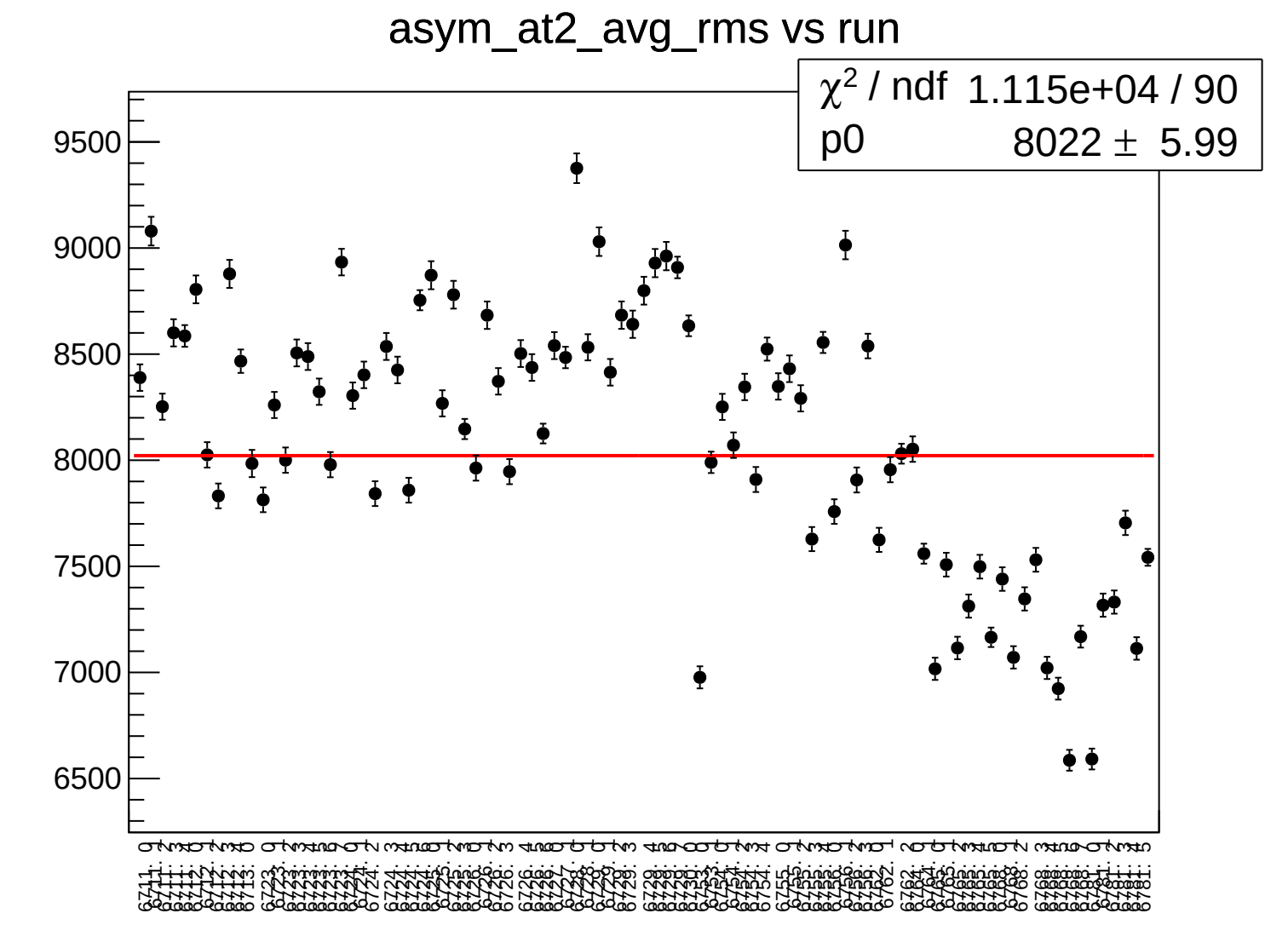

asym_at2_avg_eigen_dit_correction_mean vs run
χ² / ndf 81.65 / 90
p0 −1261 ± 8765
×10³
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −64.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

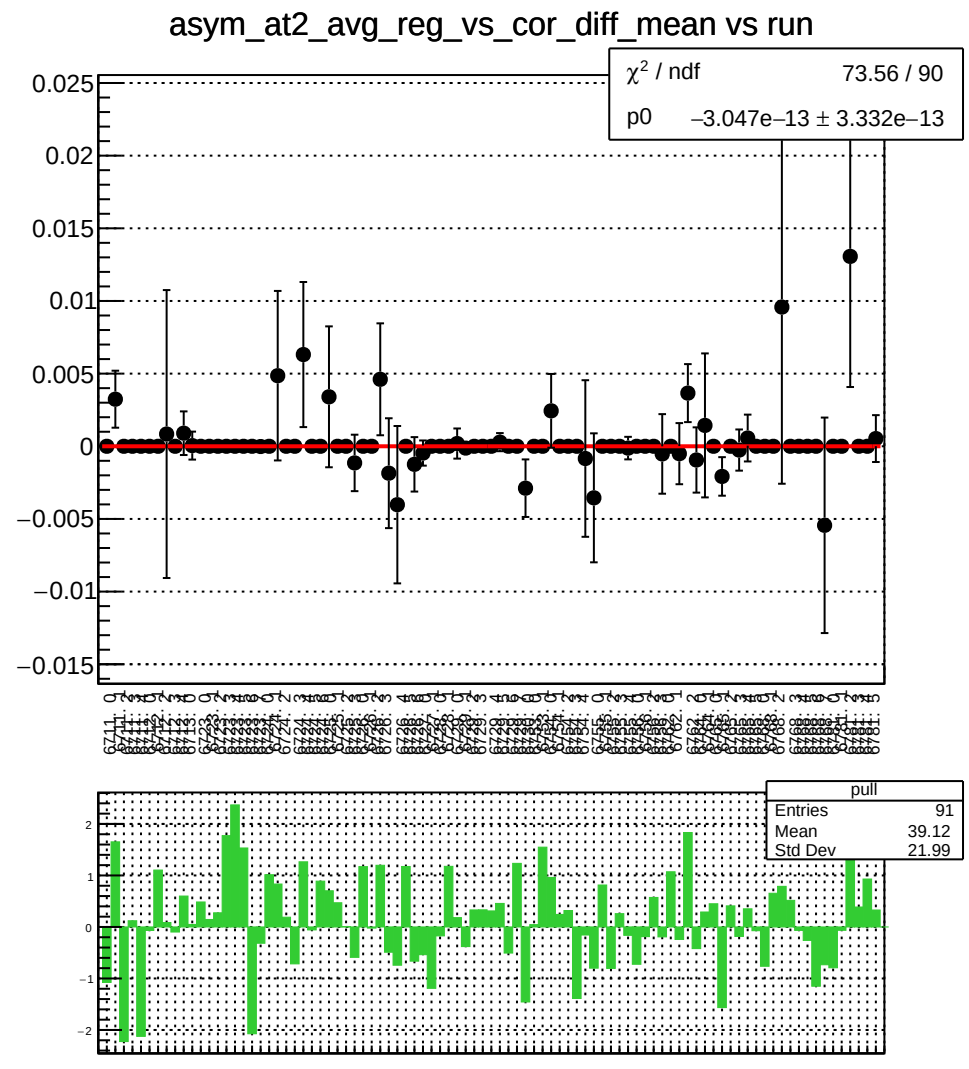

pull1D
Entries 91
Mean −0.035
Std Dev 0.9466
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

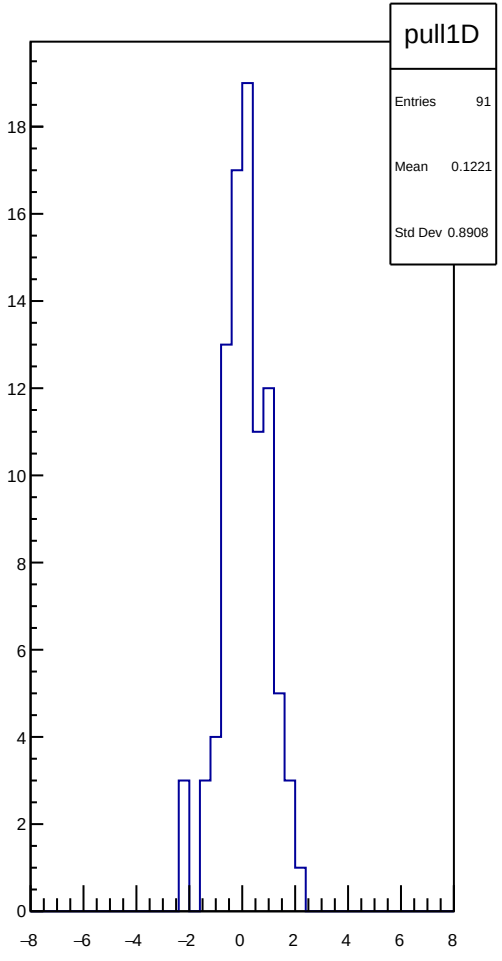

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.471e+04 / 90
p0 8292 ± 6.198
10000
9500
9000
8500
8000
7500
7000
6500

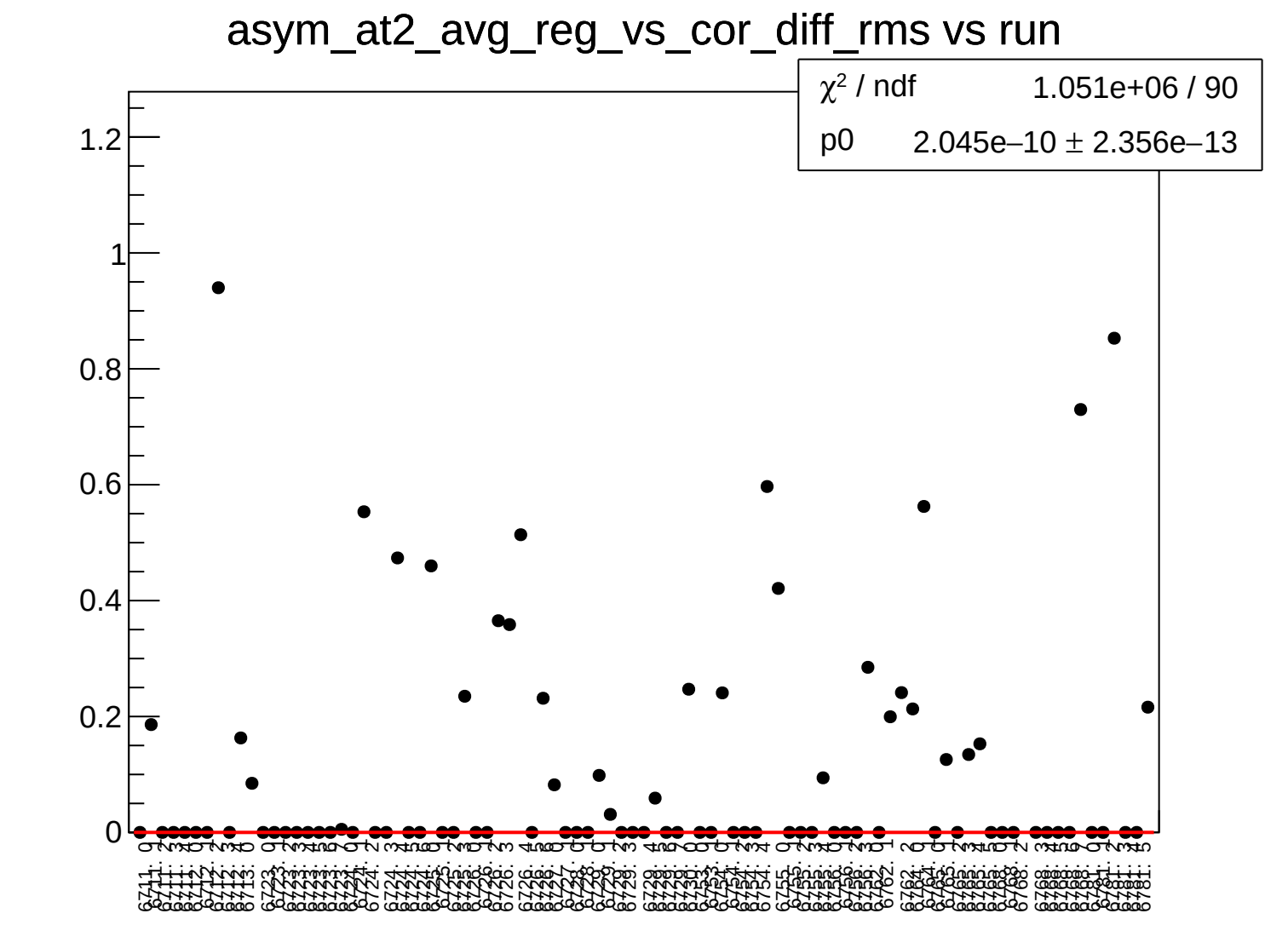

asym_at2_avg_mean vs run
×10^3
χ² / ndf 83.56 / 90
p0 −712.6 ± 8471
pull
Entries 91
Mean −58.53
Std Dev 0

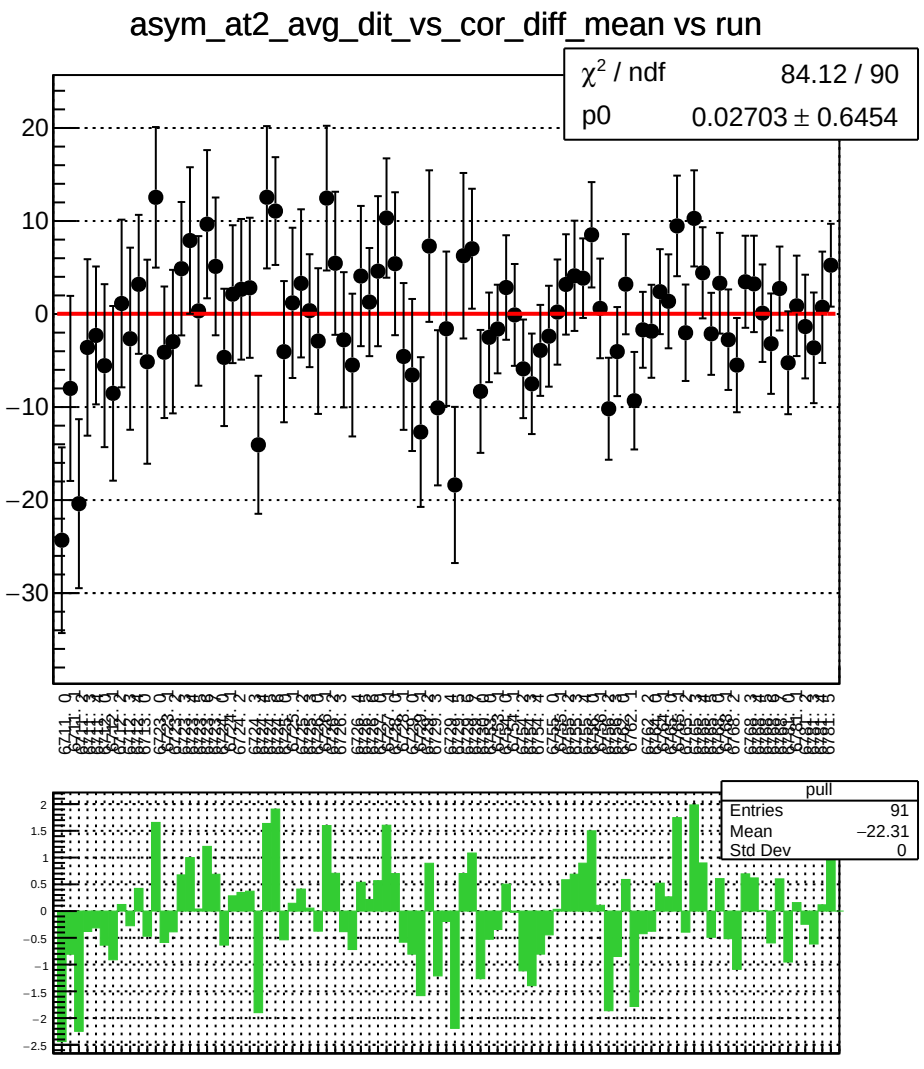

pull1D
Entries 91
Mean 0.02856
Std Dev 0.9578

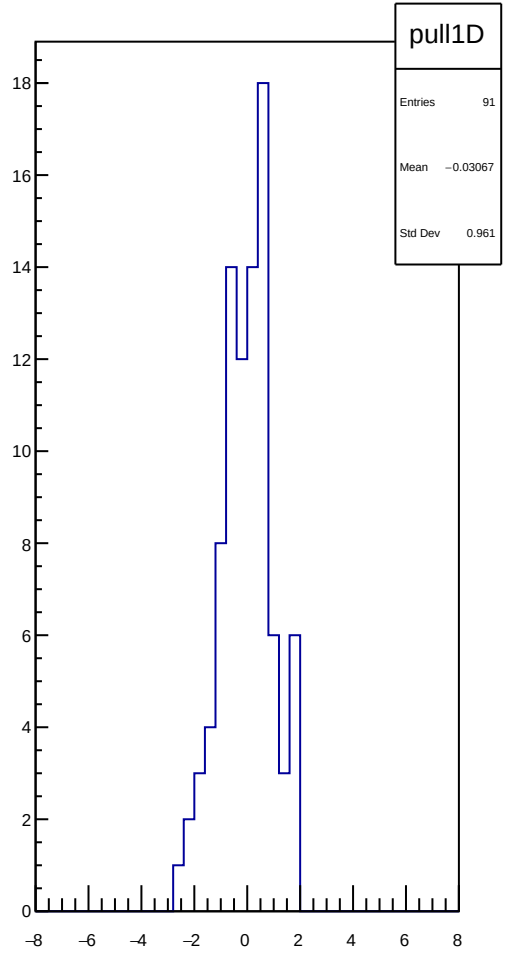

asym_at2_avg_rms vs run
χ^2 / ndf 1.115e+04 / 90
p0 8022 ± 5.99
9500
9000
8500
8000
7500
7000
6500

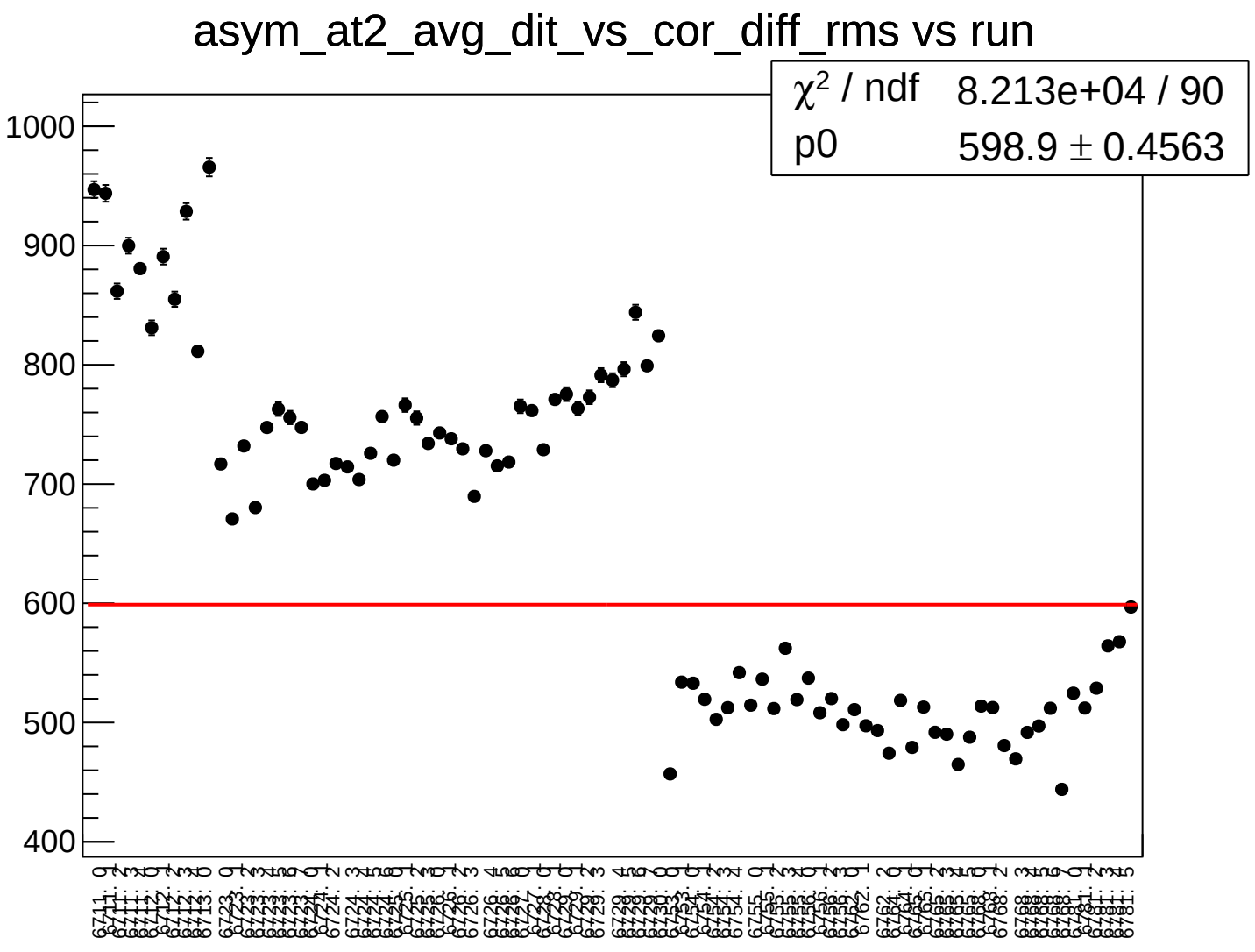

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.56 / 90
p0 −3.047e−13 ± 3.332e−13
pull
Entries 91
Mean 39.12
Std Dev 21.99

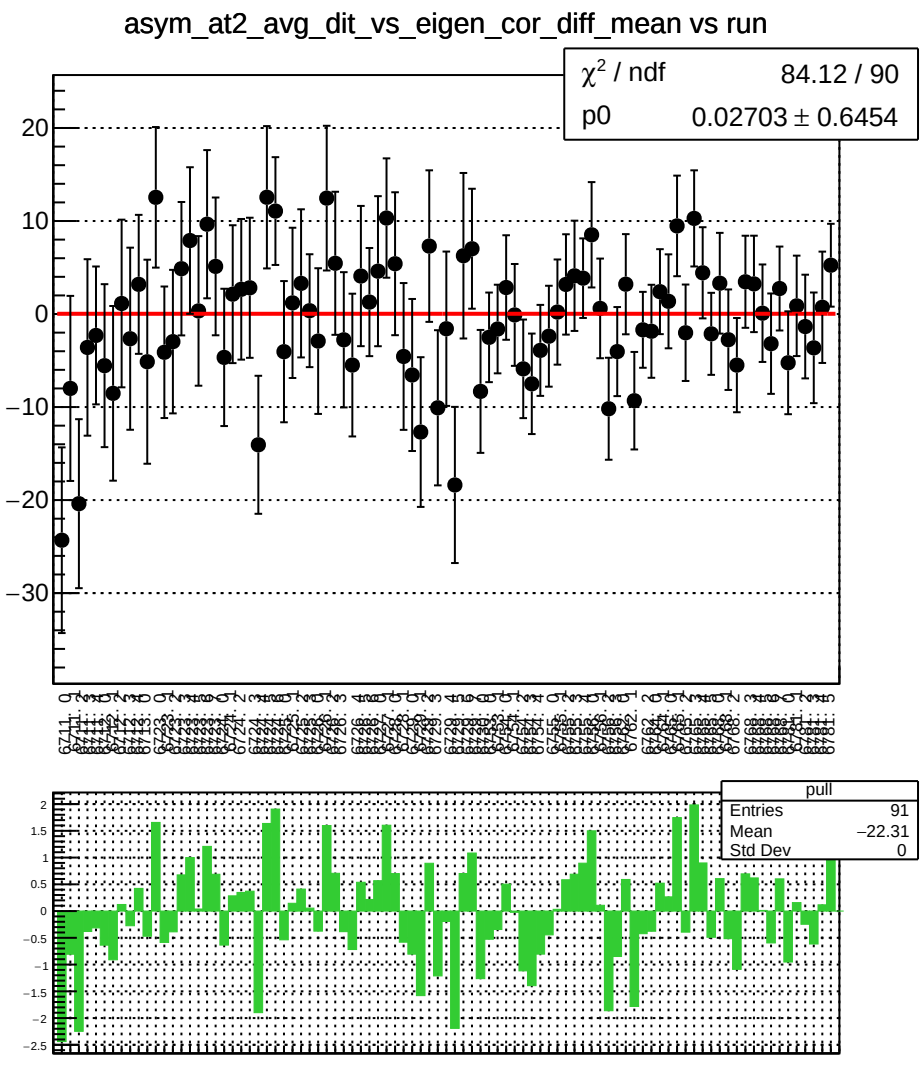

pull1D
Entries 91
Mean 0.1221
Std Dev 0.8908

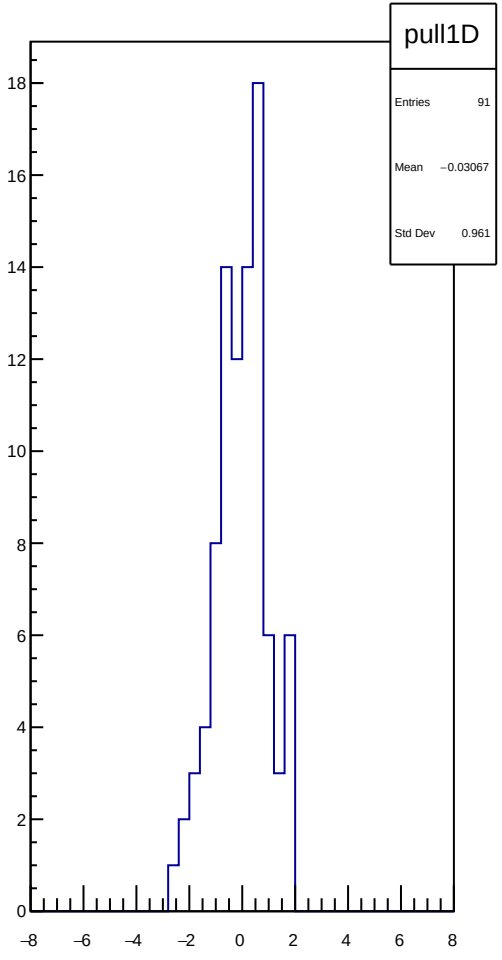

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.051e+06 / 90
p0 2.045e−10 ± 2.356e−13
1.2
1
0.8
0.6
0.4
0.2
0

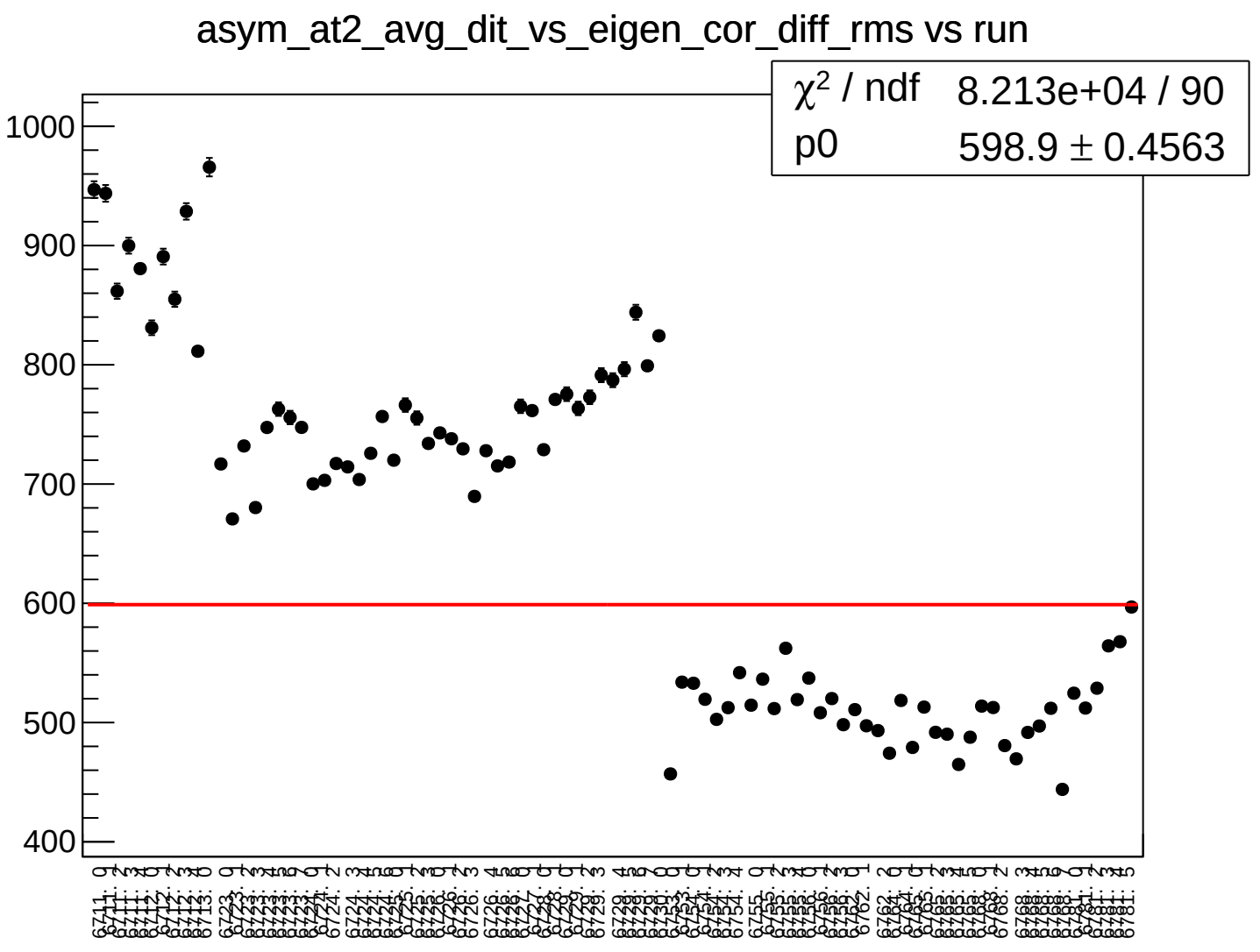

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.12 / 90
p0 0.02703 ± 0.6454
pull
Entries 91
Mean −22.31
Std Dev 0

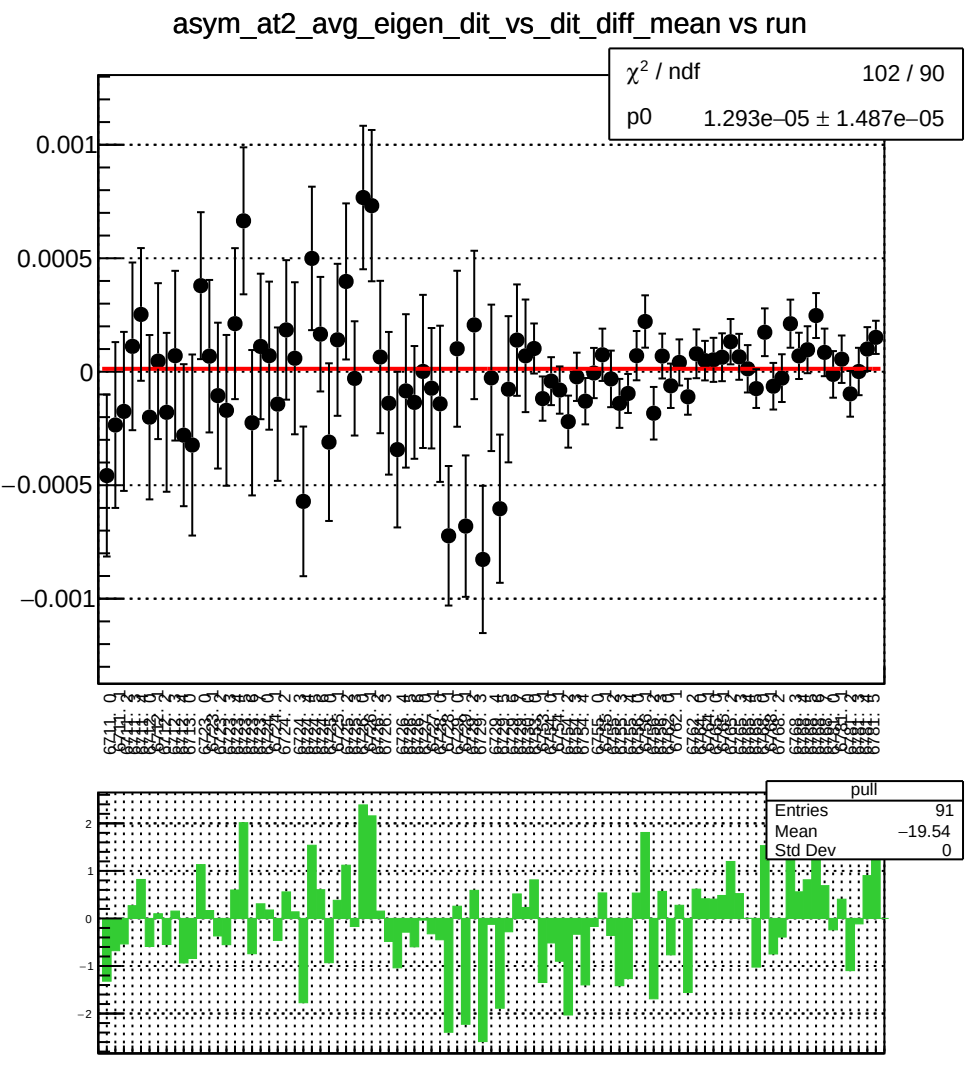

pull1D
Entries 91
Mean −0.03067
Std Dev 0.961

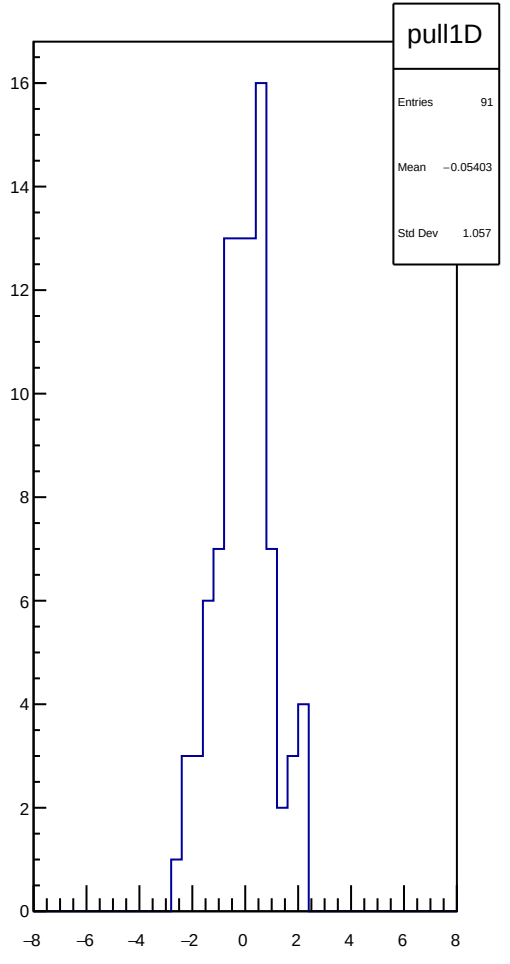

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.213e+04 / 90
p0 598.9 ± 0.4563
1000
900
800
700
600
500
400

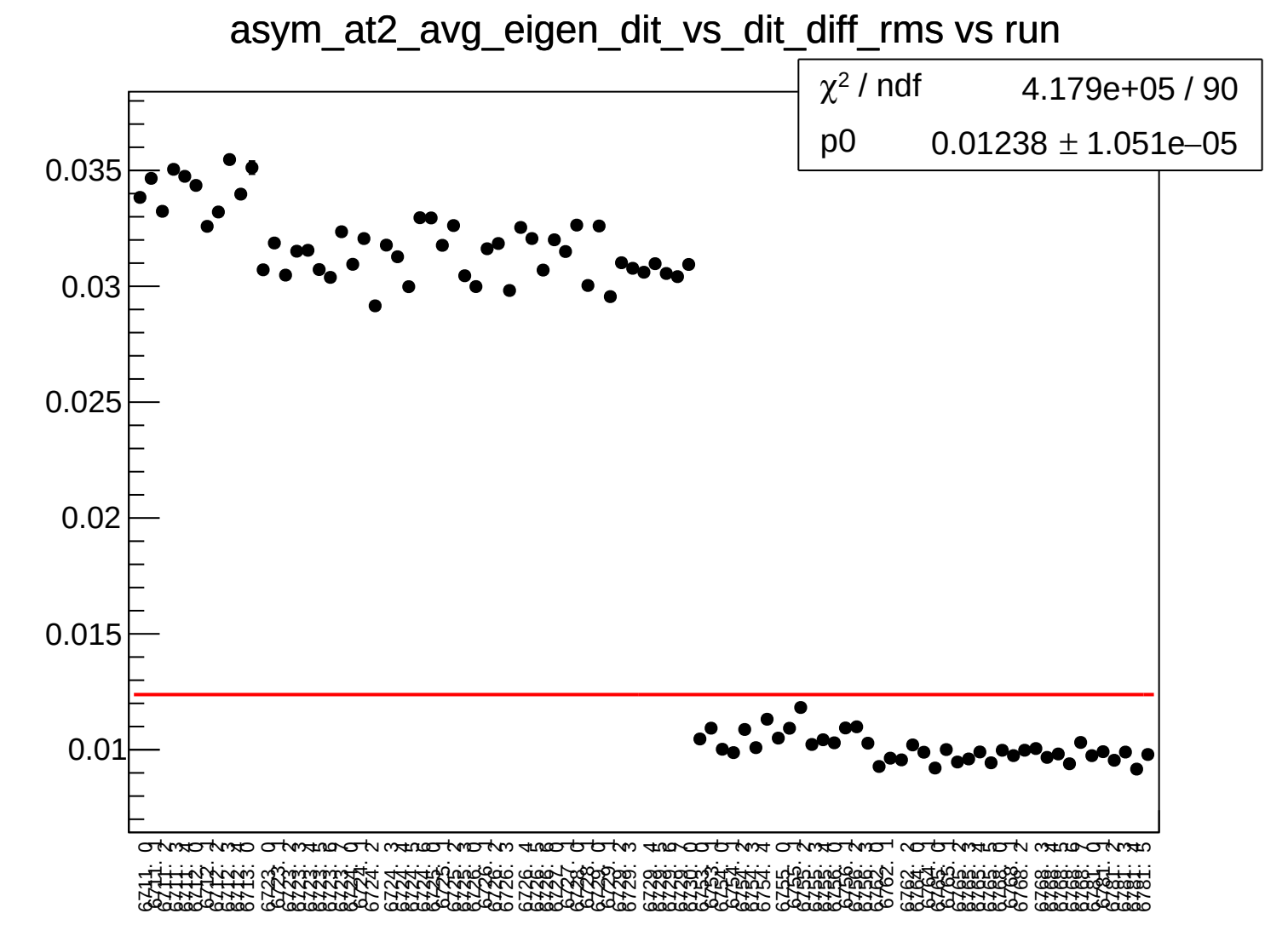

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.12 / 90
p0 0.02703 ± 0.6454
pull
Entries 91
Mean −22.31
Std Dev 0

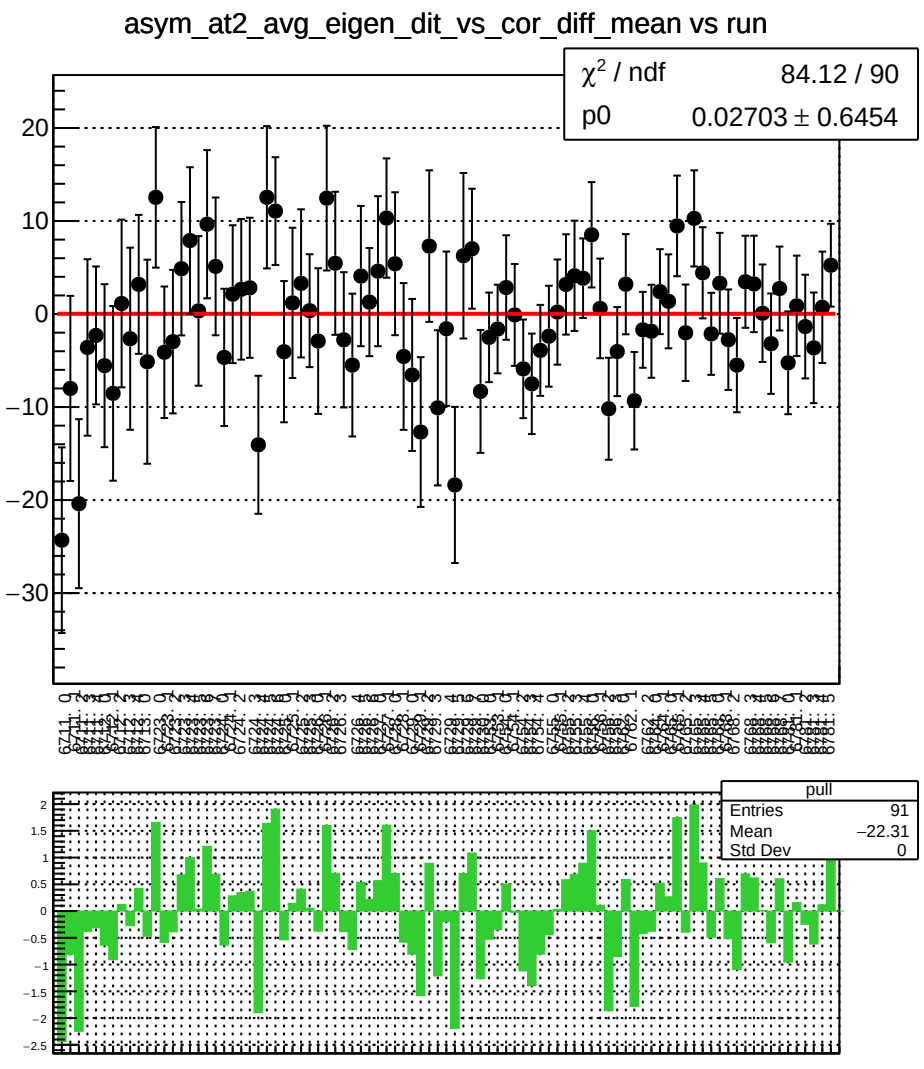

pull1D
Entries 91
Mean −0.03067
Std Dev 0.961

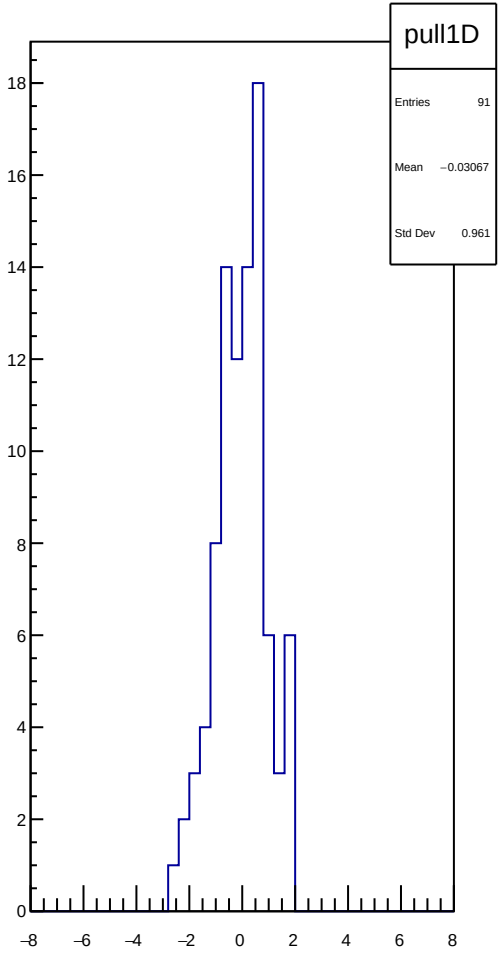

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.213e+04 / 90
p0 598.9 ± 0.4563
1000
900
800
700
600
500
400

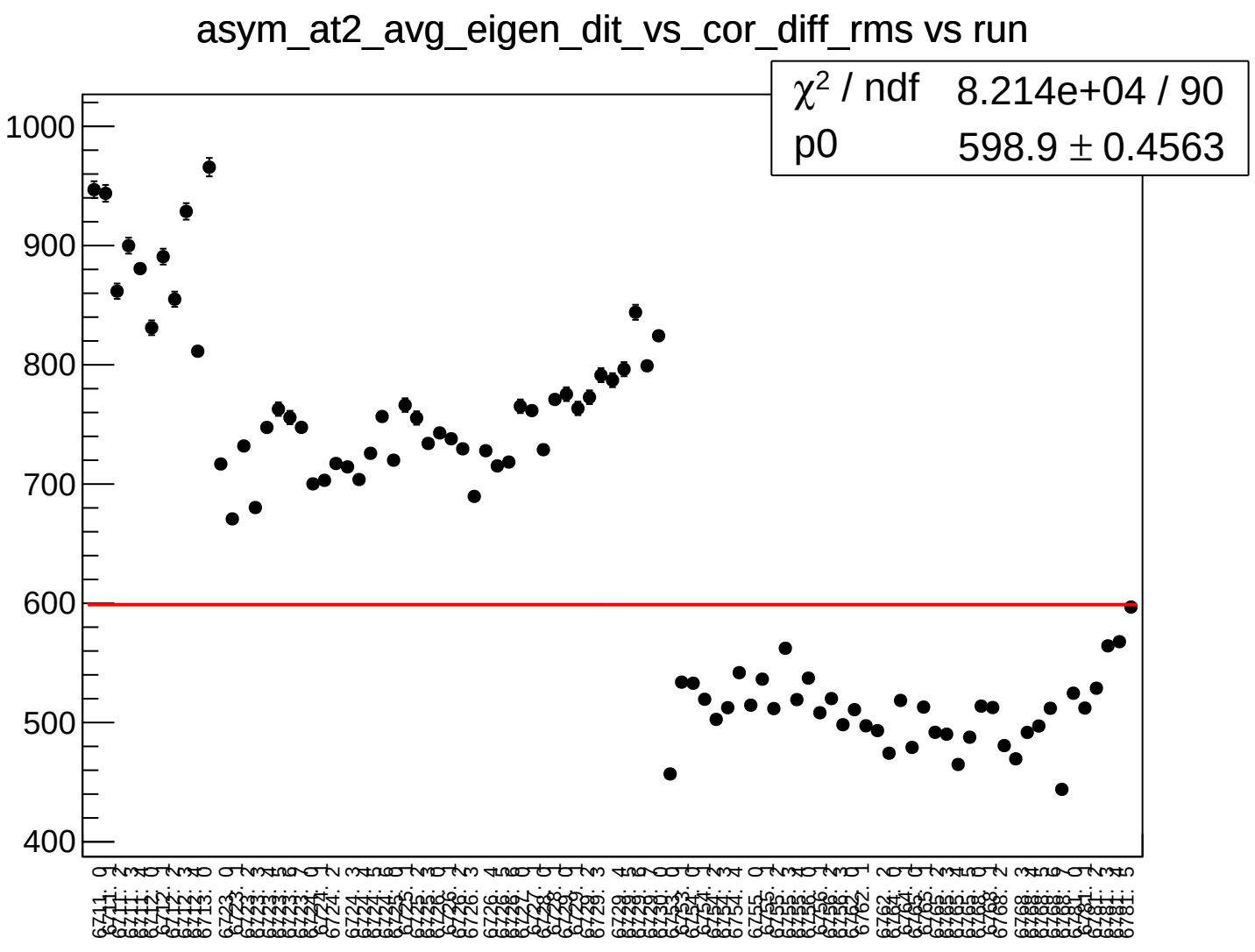

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 102 / 90
p0 1.293e−05 ± 1.487e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean −19.54
Std Dev 0

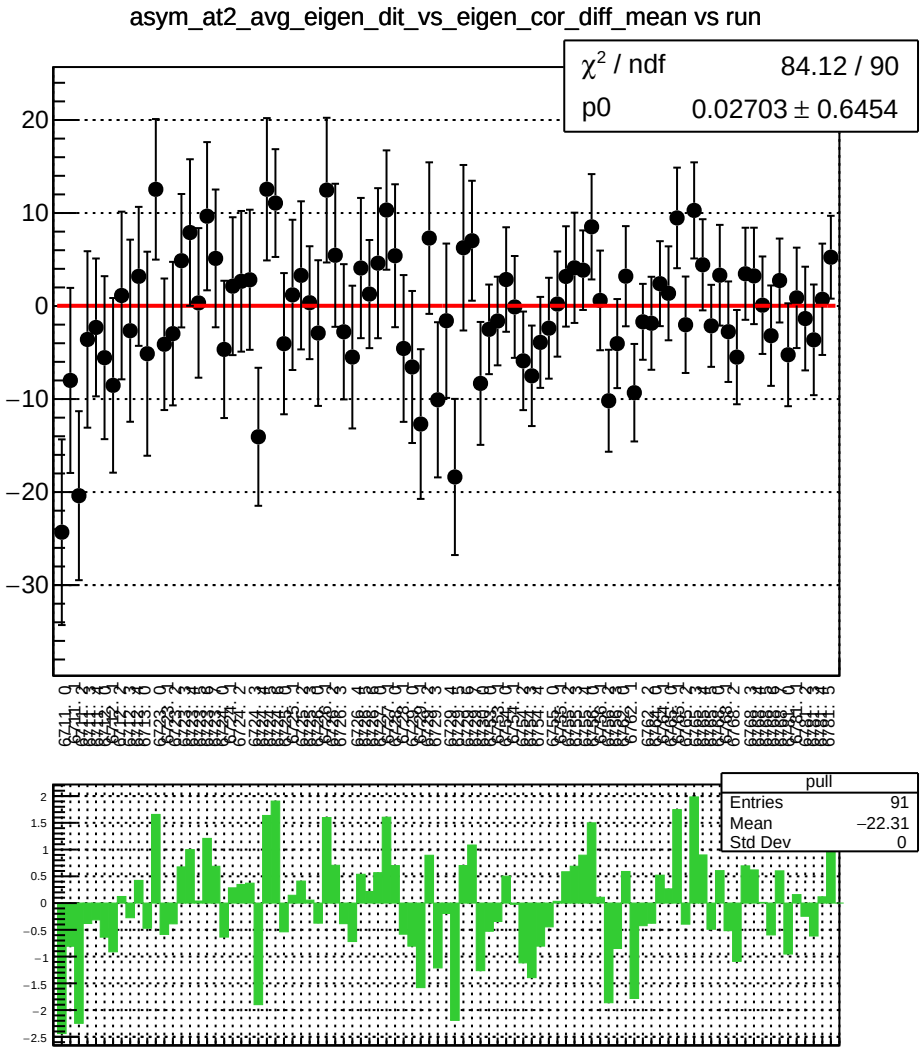

pull1D
Entries 91
Mean −0.05403
Std Dev 1.057

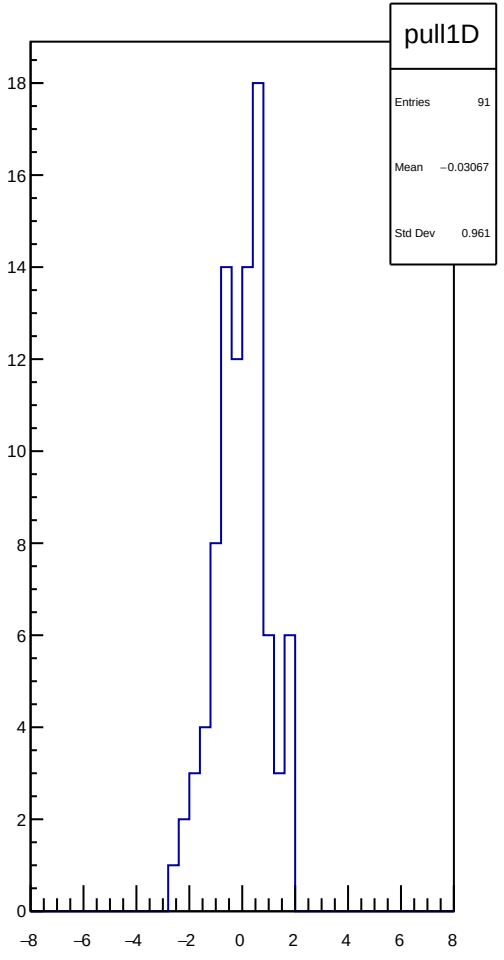

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.179e+05 / 90
p0 0.01238 ± 1.051e−05
0.035
0.03
0.025
0.02
0.015
0.01

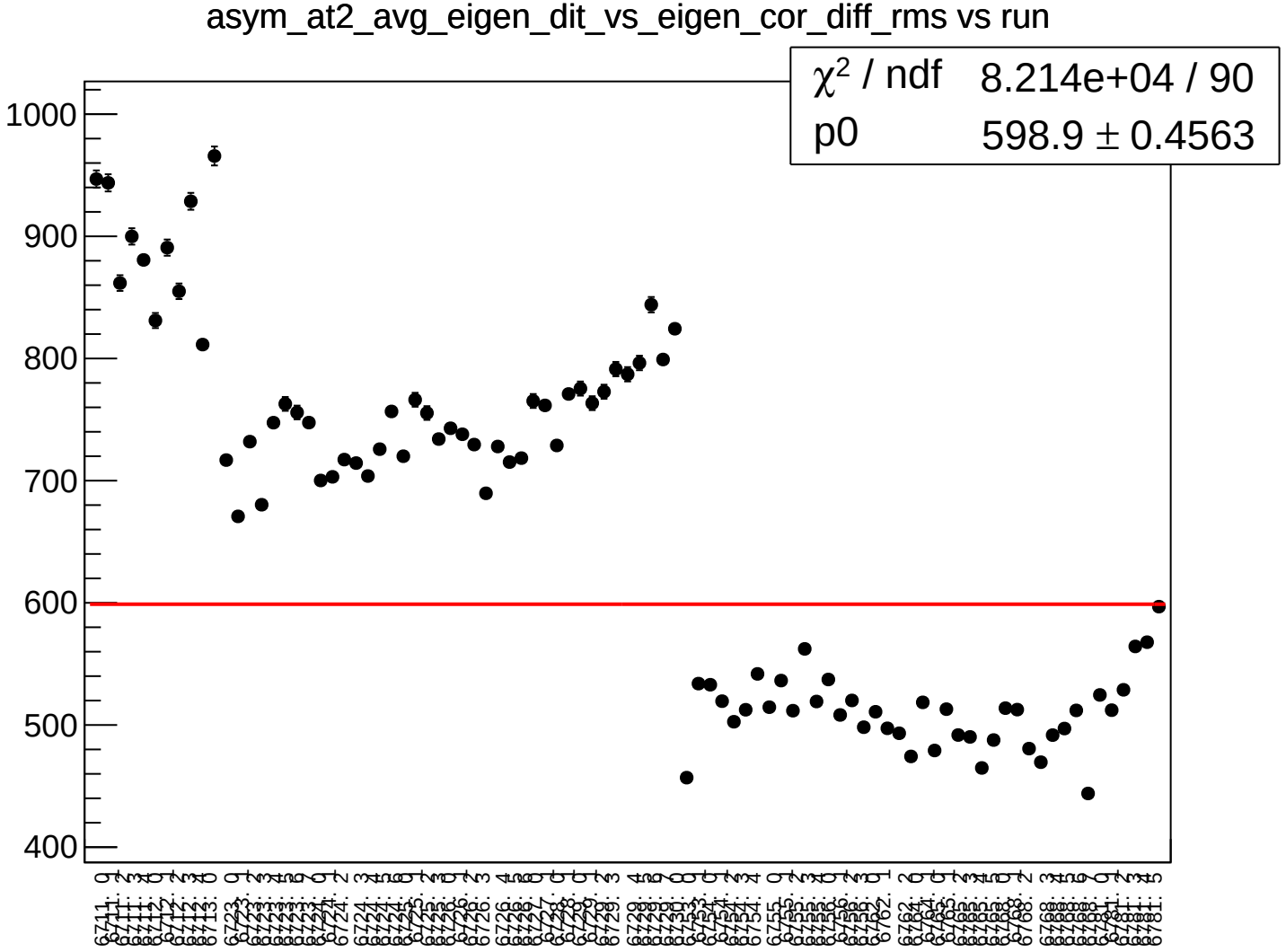

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.12 / 90
p0 0.02703 ± 0.6454
pull
Entries 91
Mean −22.31
Std Dev 0

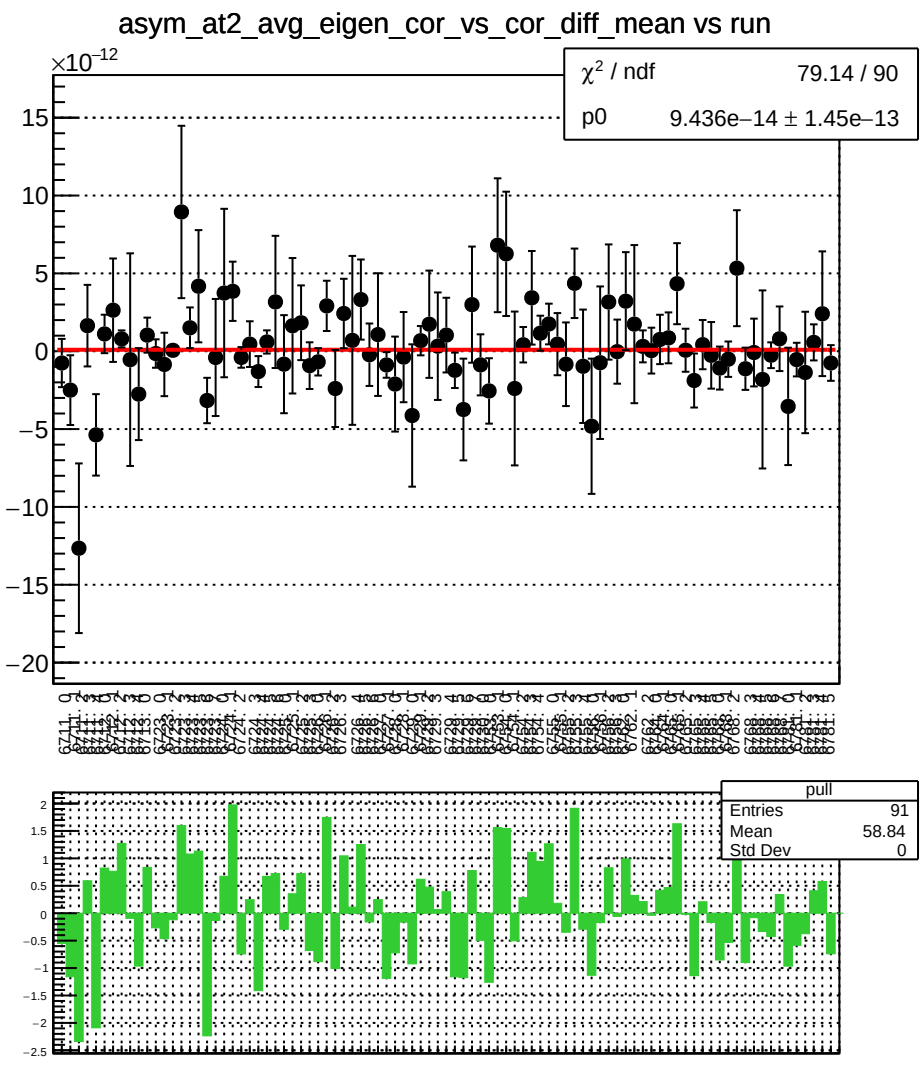

pull1D
Entries 91
Mean −0.03067
Std Dev 0.961

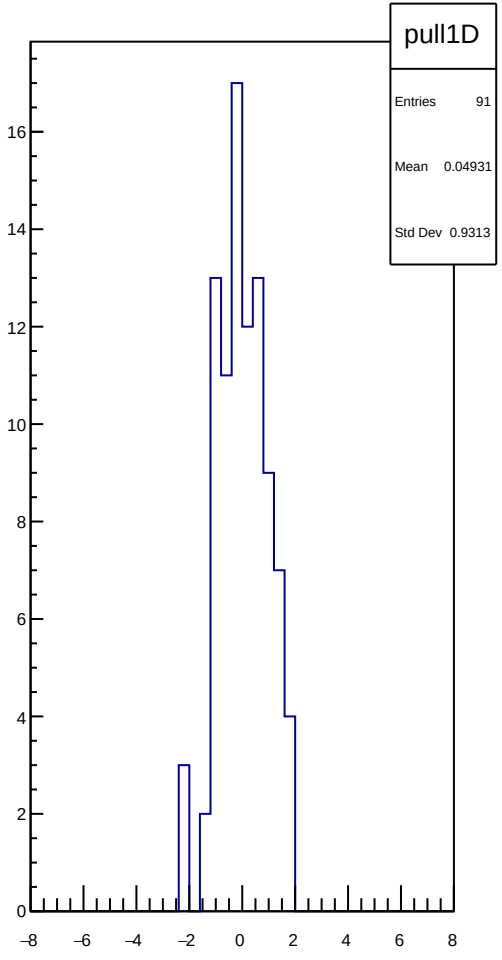

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.214e+04 / 90
p0 598.9 ± 0.4563
1000
900
800
700
600
500
400

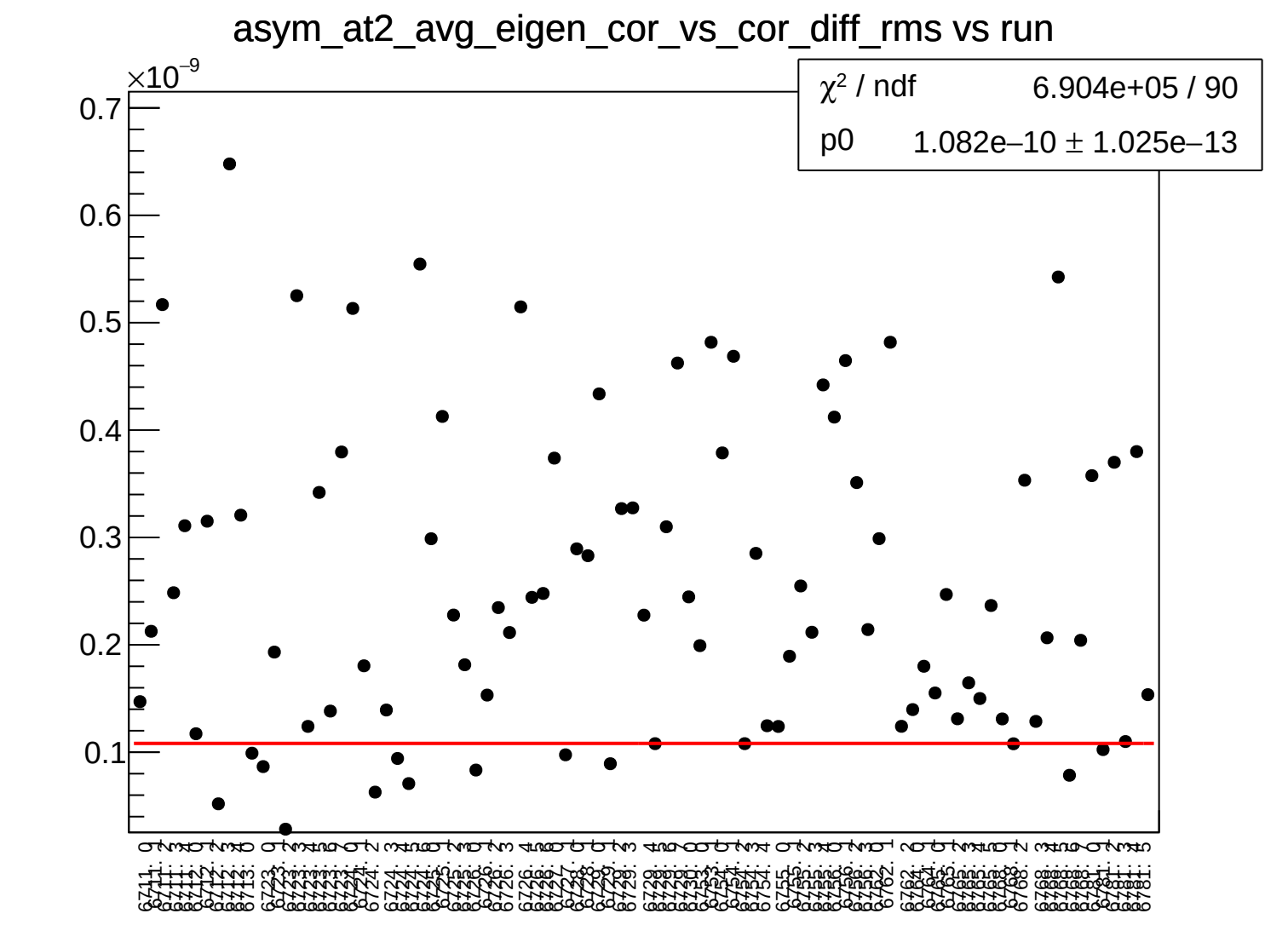

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.12 / 90
p0 0.02703 ± 0.6454
pull
Entries 91
Mean −22.31
Std Dev 0

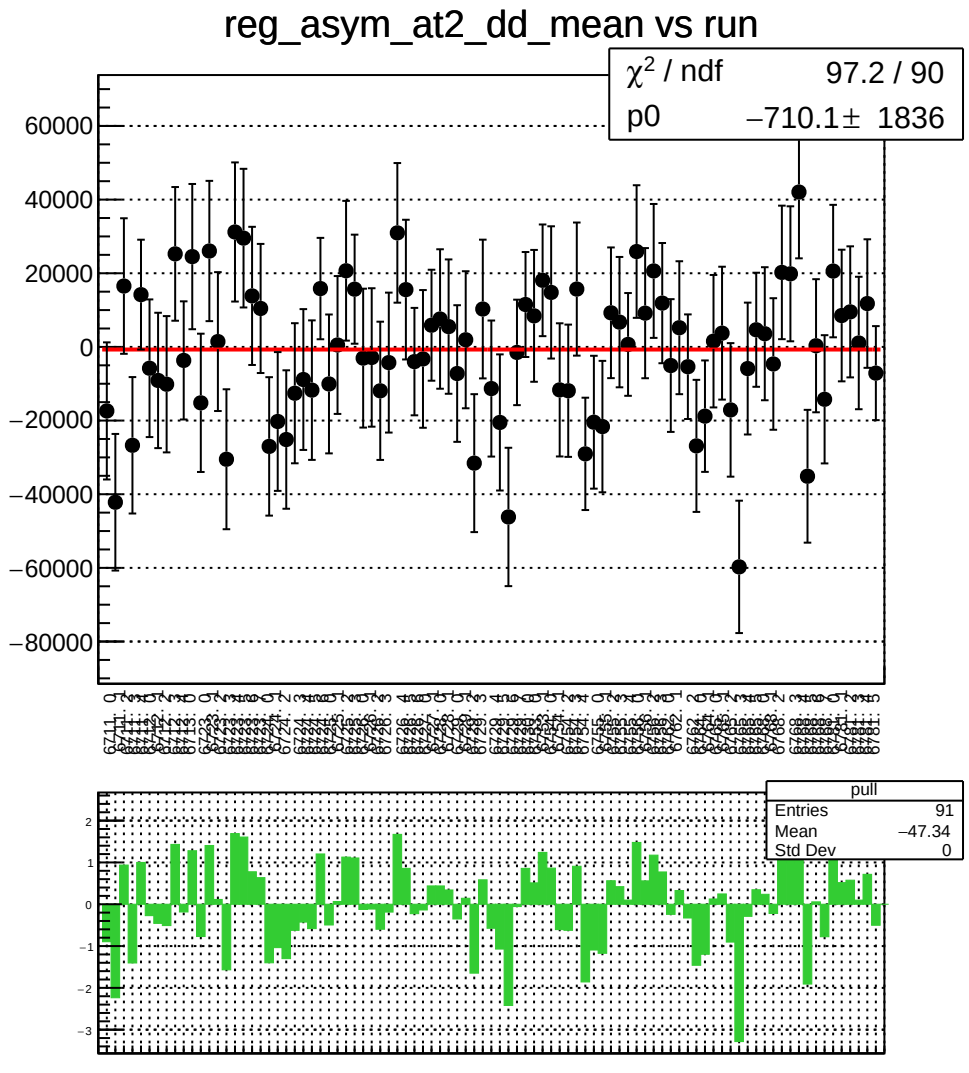

pull1D
Entries 91
Mean −0.03067
Std Dev 0.961

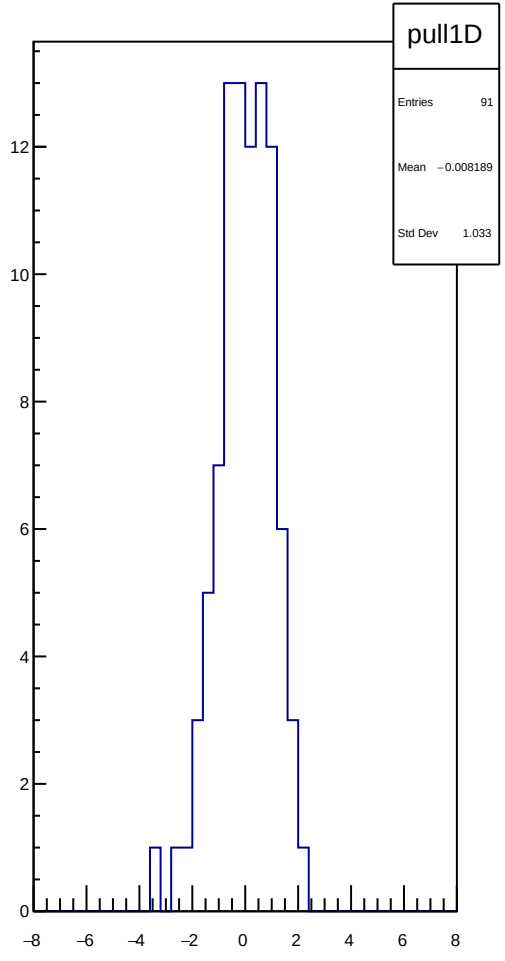

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.214e+04 / 90
p0 598.9 ± 0.4563
1000
900
800
700
600
500
400

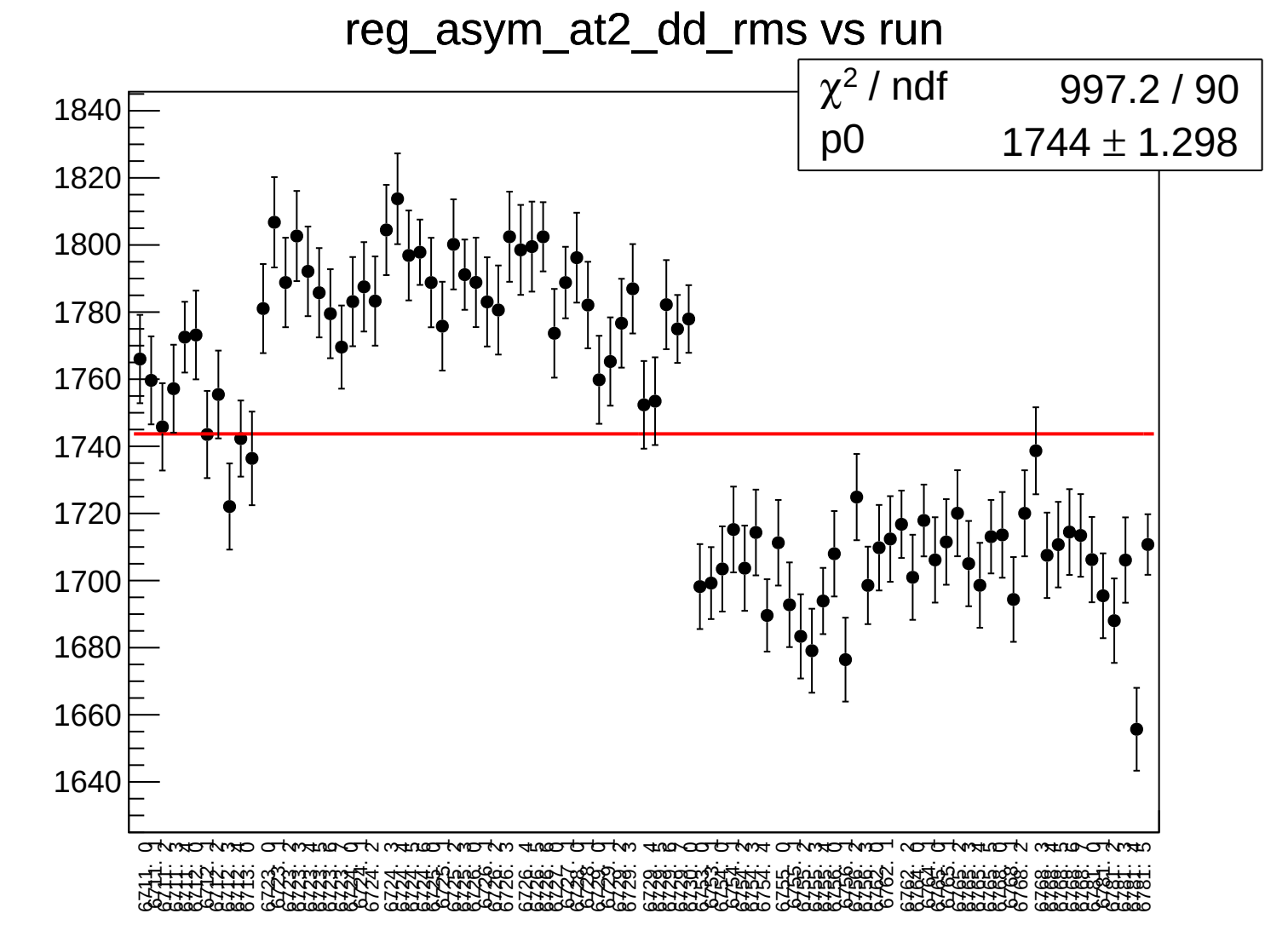

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.14 / 90
p0 9.436e−14 ± 1.45e−13
pull
Entries 91
Mean 58.84
Std Dev 0

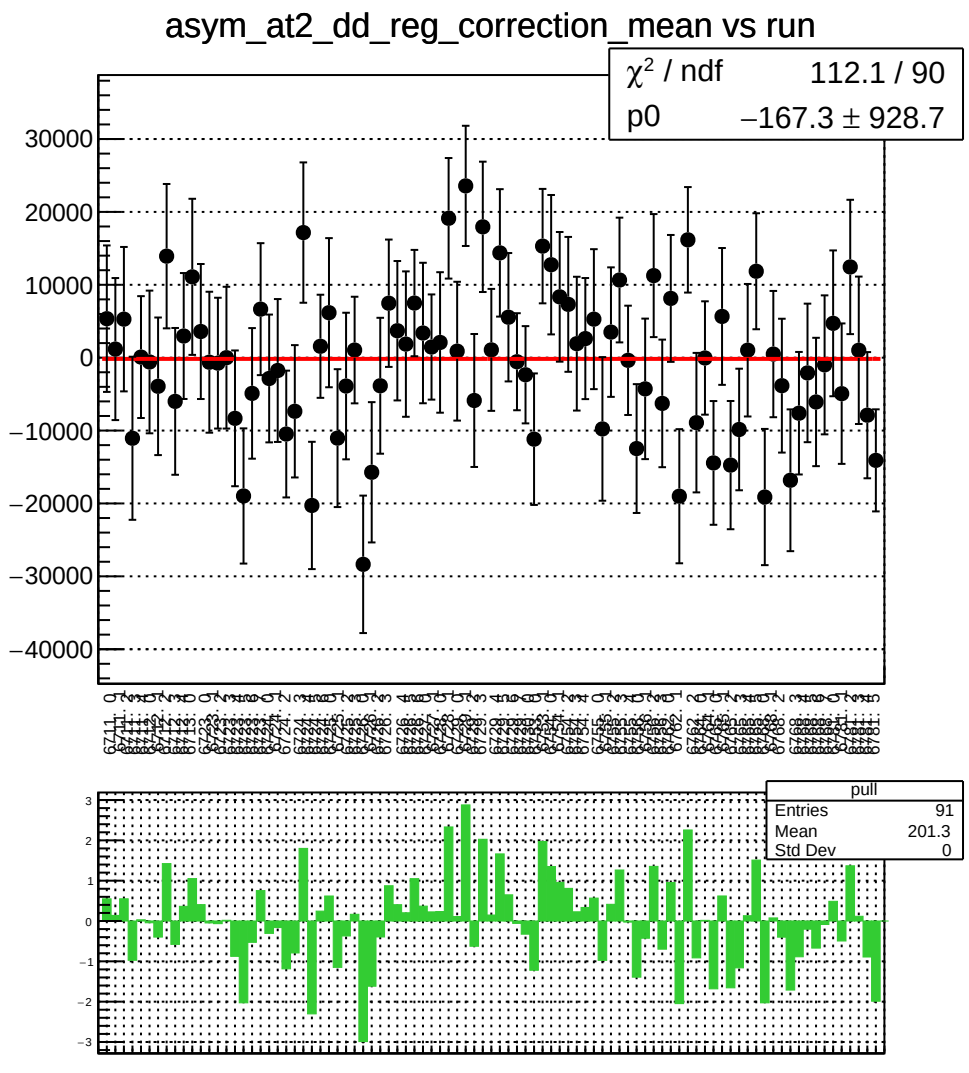

pull1D
Entries 91
Mean 0.04931
Std Dev 0.9313

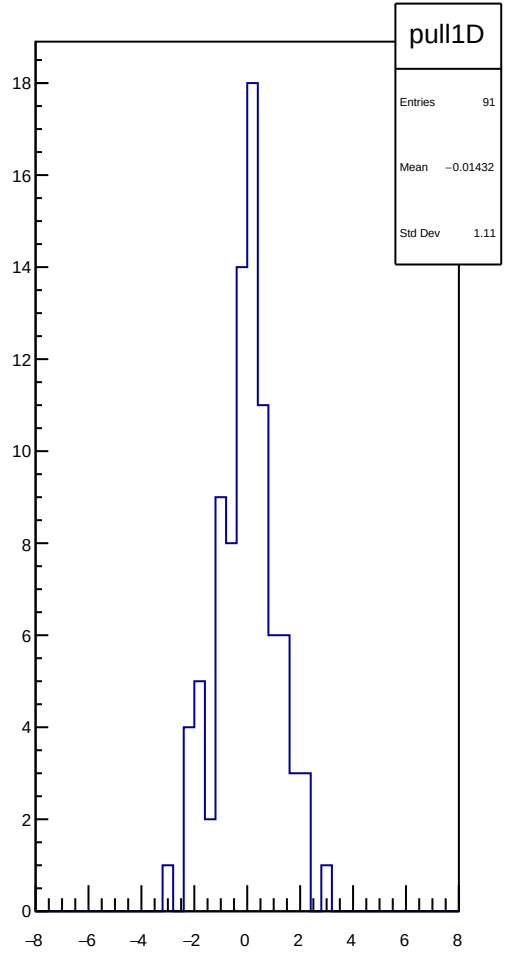

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.904e+05 / 90
p0 1.082e−10 ± 1.025e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

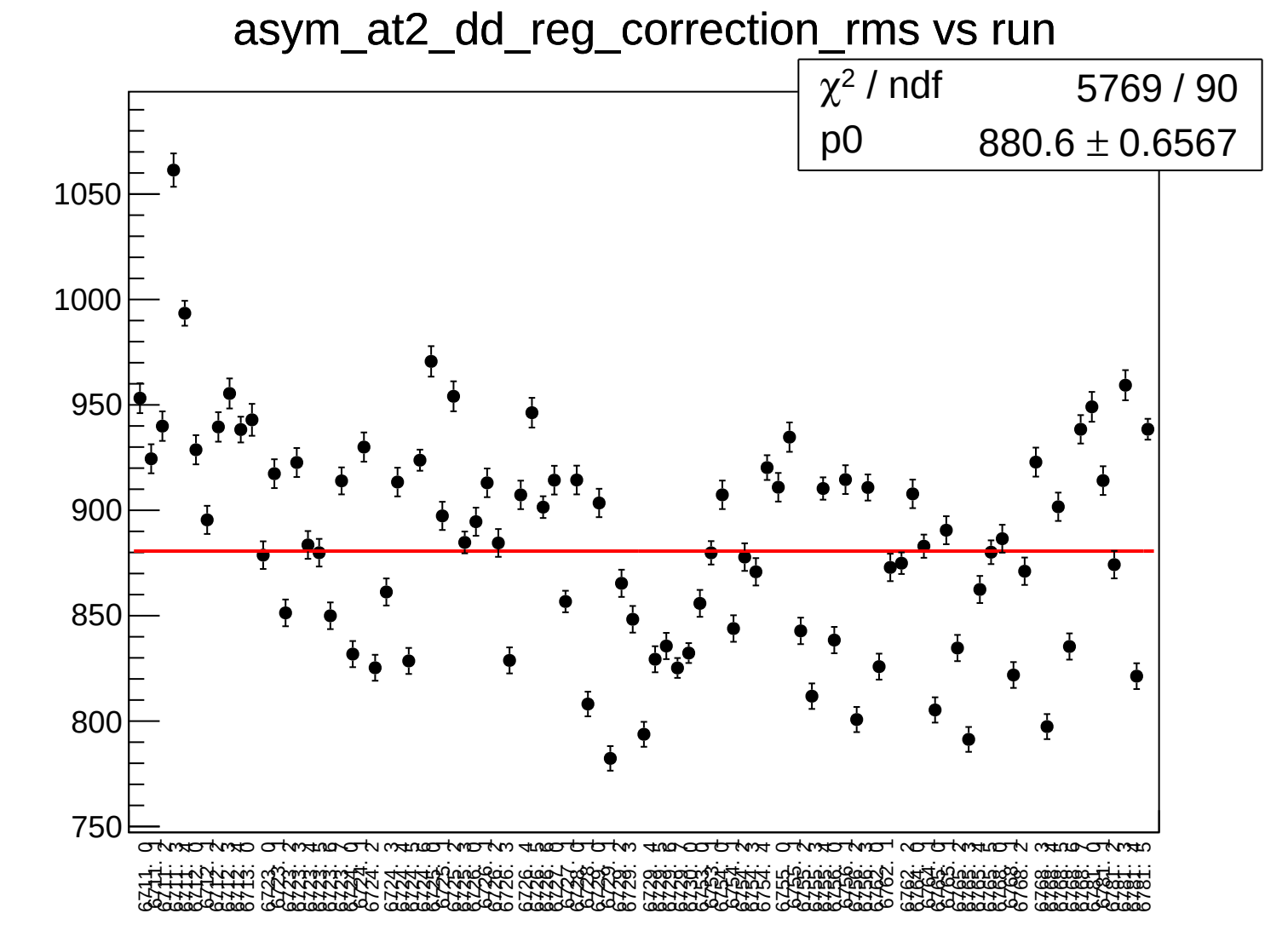

reg_asym_at2_dd_mean vs run
χ² / ndf 97.2 / 90
p0 −710.1± 1836
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −47.34
Std Dev 0
2
1
0
−1
−2
−3

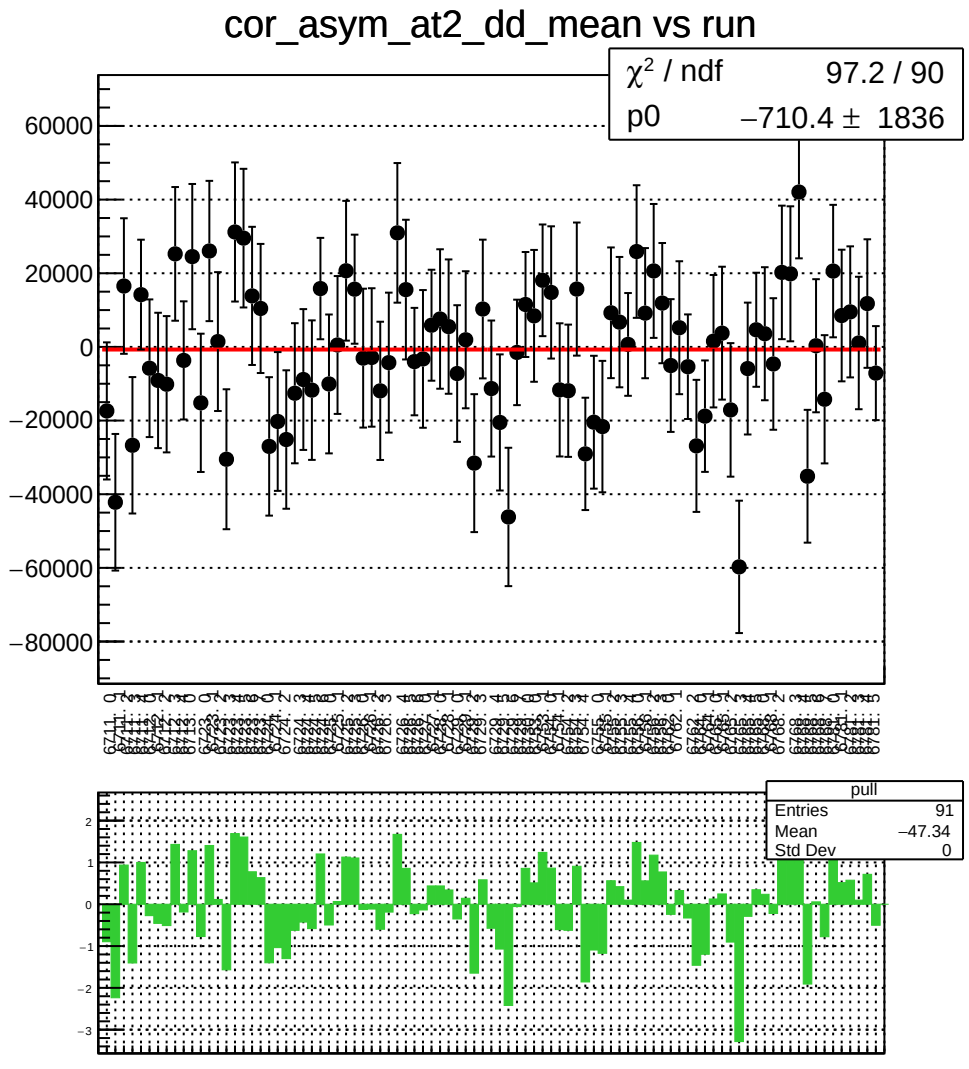

pull1D
Entries 91
Mean −0.008189
Std Dev 1.033
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

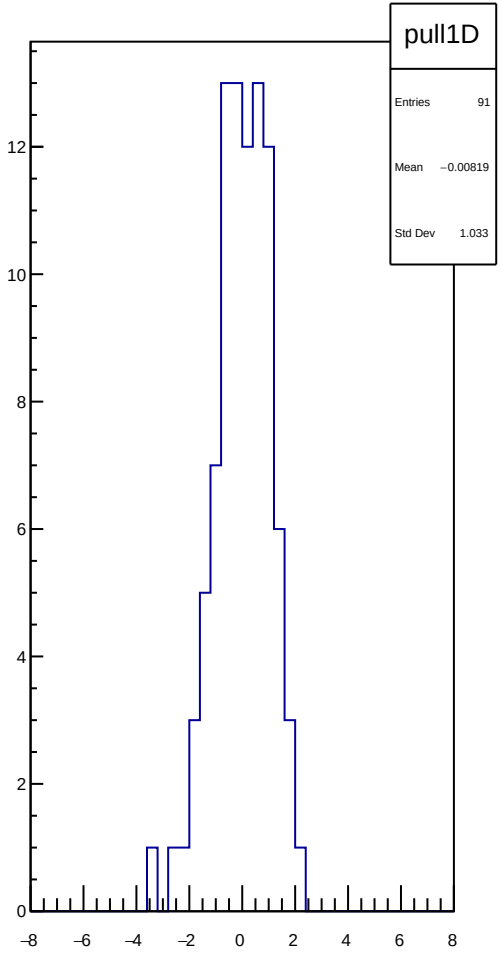

reg_asym_at2_dd_rms vs run
χ² / ndf 997.2 / 90
p0 1744 ± 1.298
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

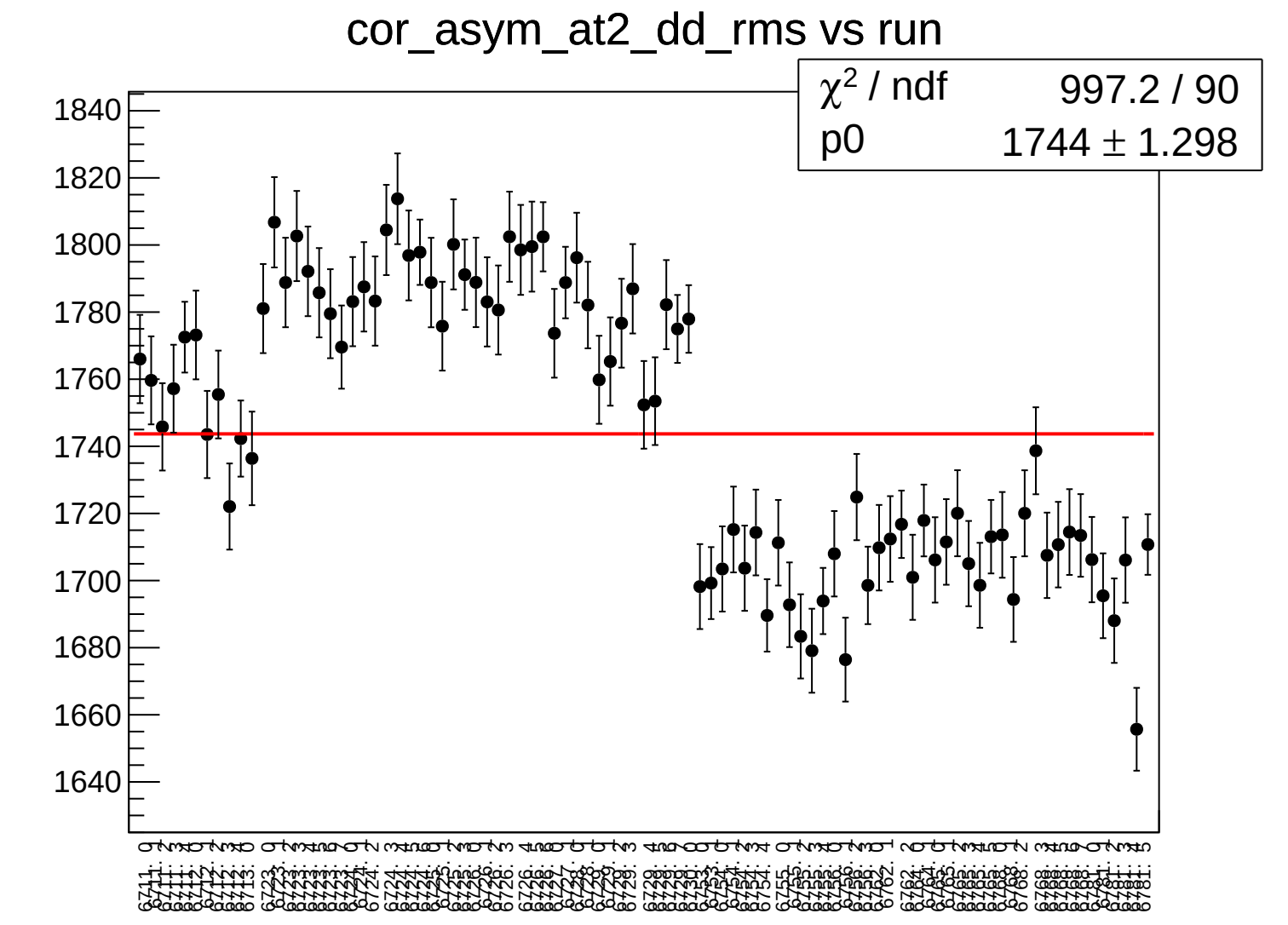

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 112.1 / 90
p0 −167.3 ± 928.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 201.3
Std Dev 0
3
2
1
0
−1
−2
−3

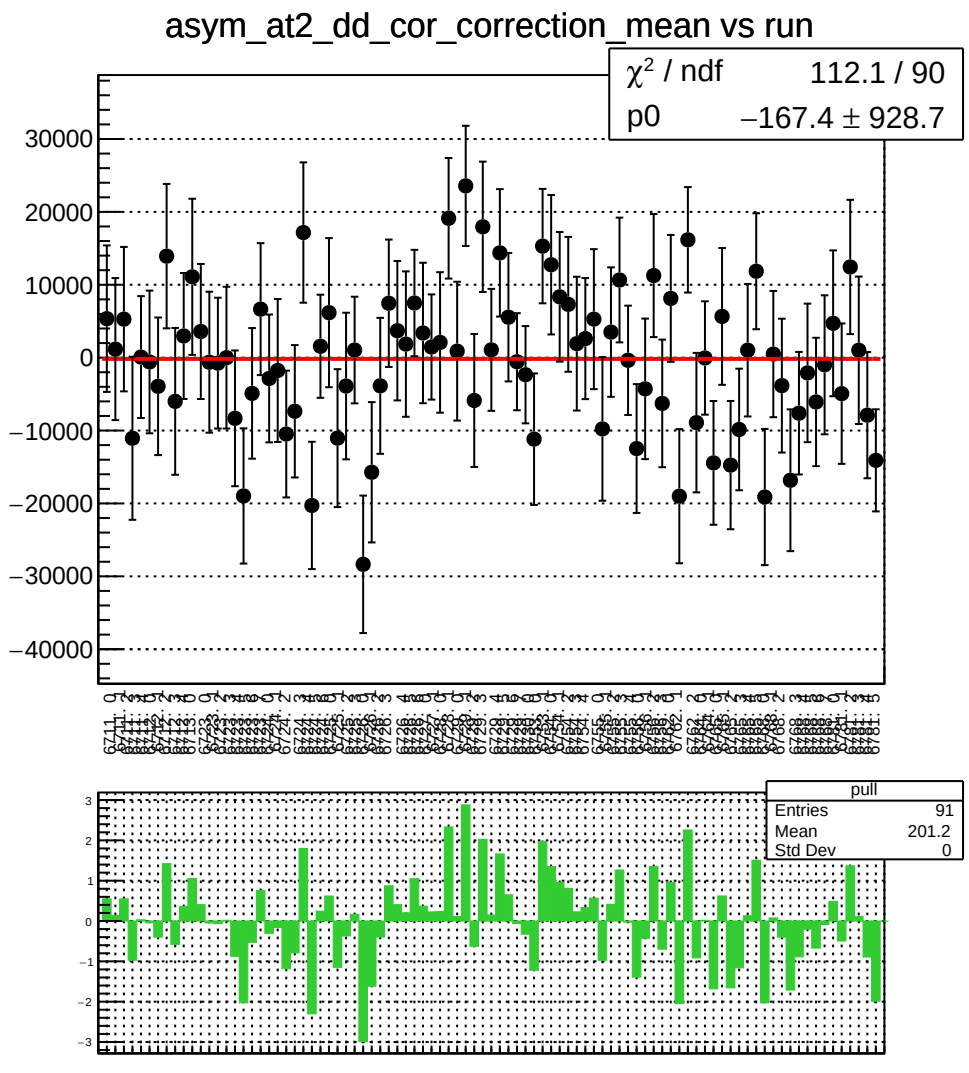

pull1D
Entries 91
Mean −0.01432
Std Dev 1.11
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

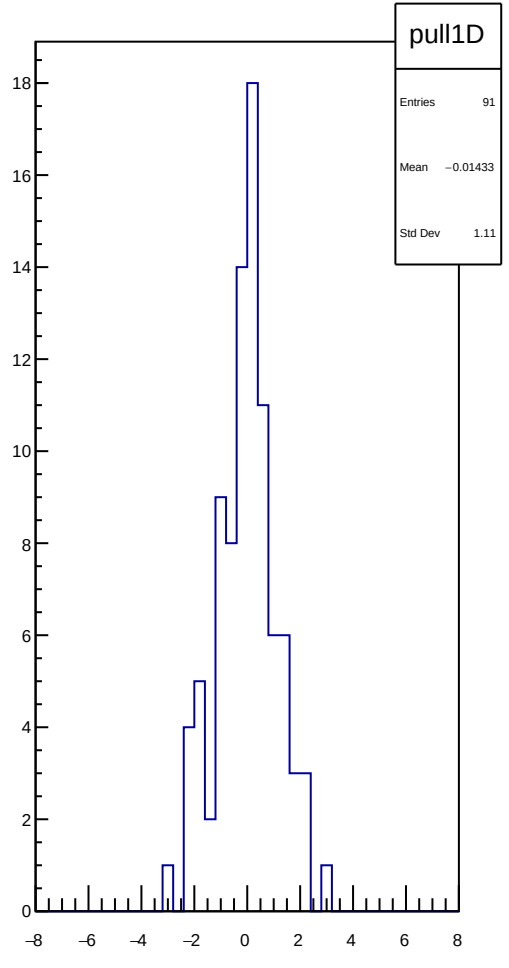

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 5769 / 90
p0 880.6 ± 0.6567
1050
1000
950
900
850
800
750

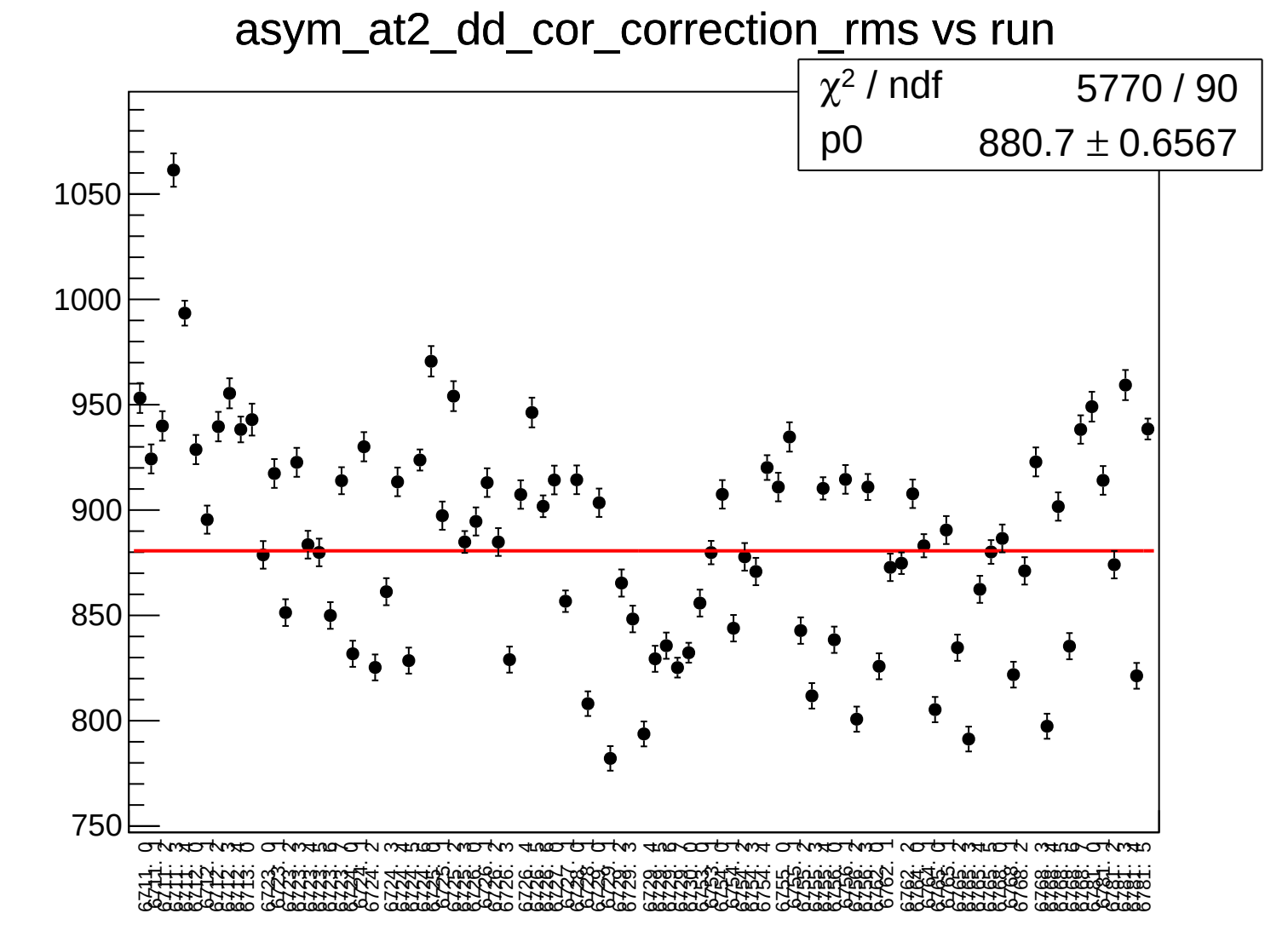

cor_asym_at2_dd_mean vs run
χ² / ndf 97.2 / 90
p0 −710.4 ± 1836
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −47.34
Std Dev 0
2
1
0
−1
−2
−3

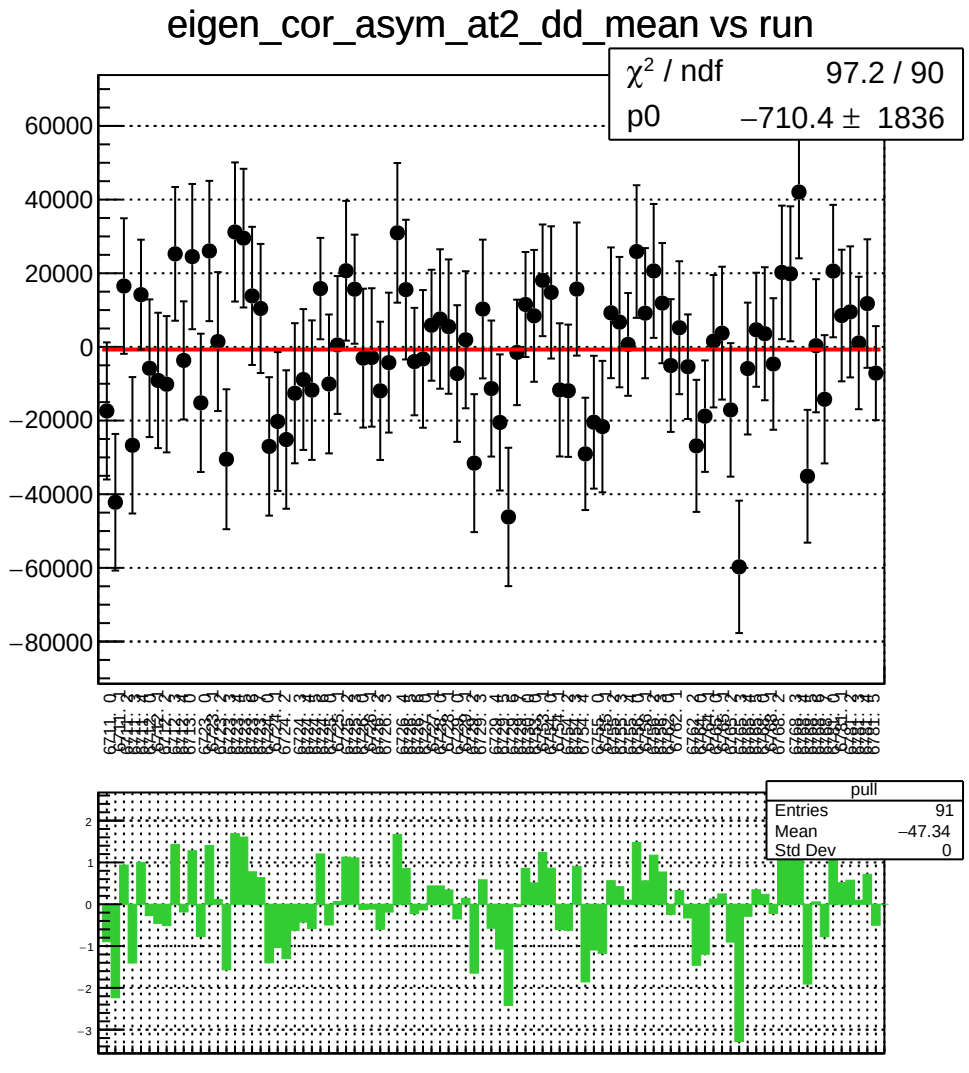

pull1D
Entries 91
Mean −0.00819
Std Dev 1.033
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

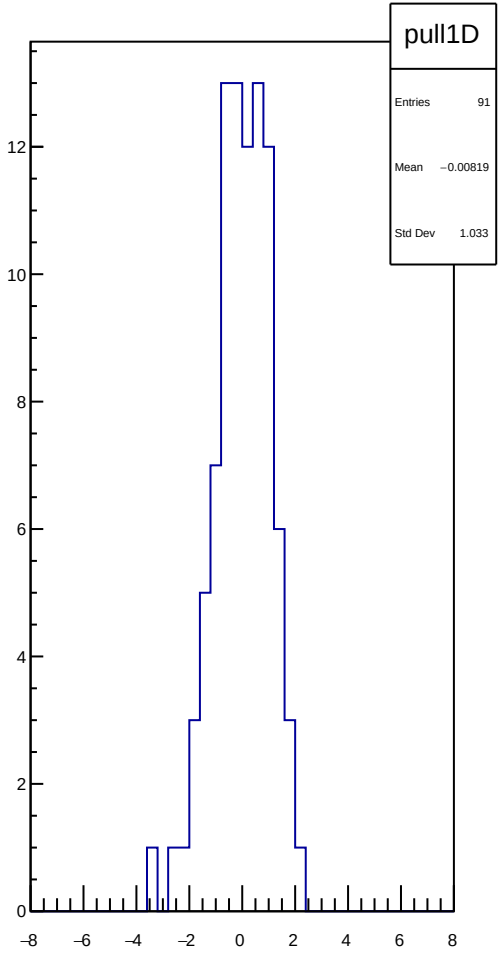

cor_asym_at2_dd_rms vs run
χ² / ndf 997.2 / 90
p0 1744 ± 1.298
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

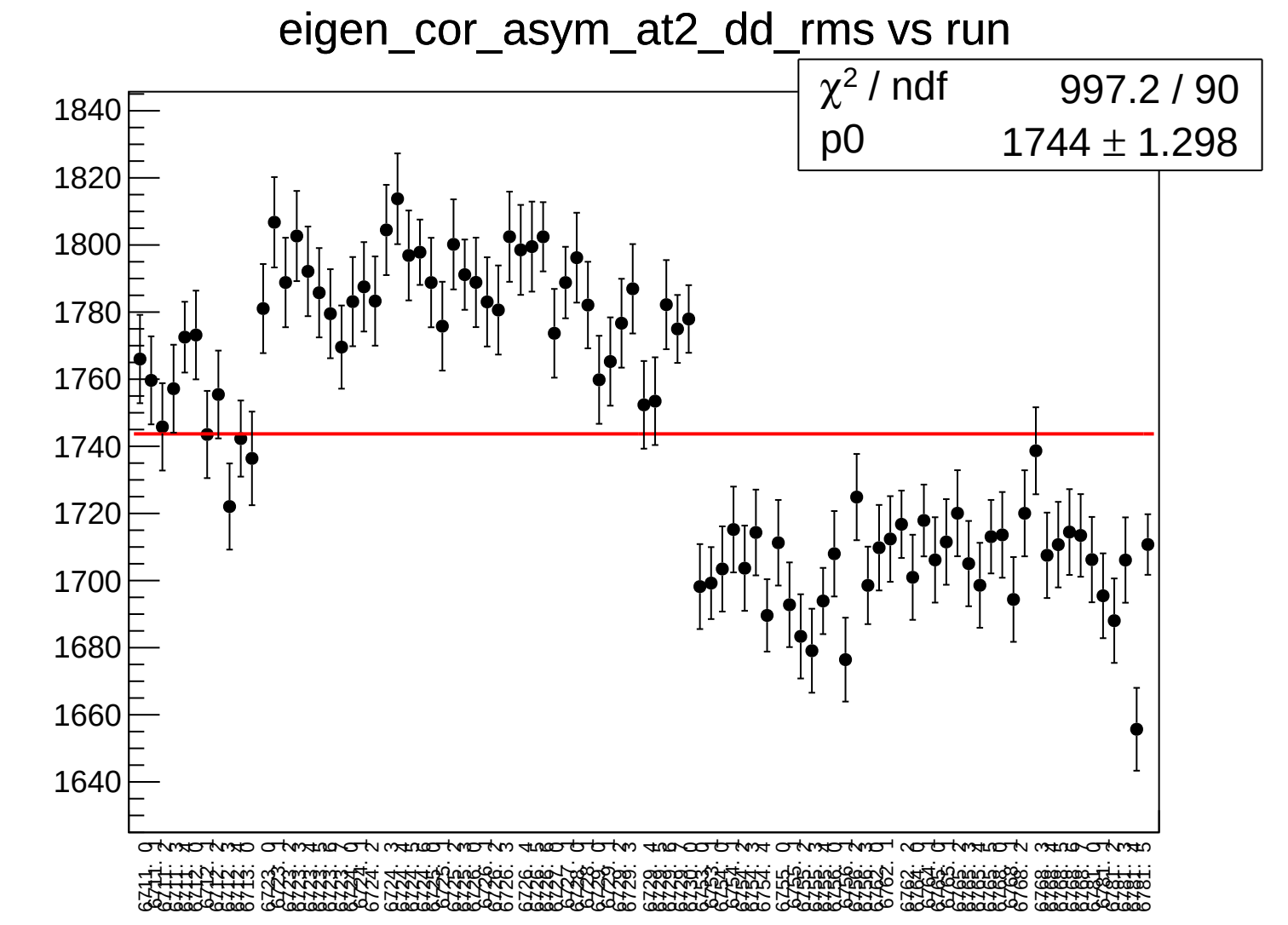

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 112.1 / 90
p0 −167.4 ± 928.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 201.2
Std Dev 0
3
2
1
0
−1
−2
−3

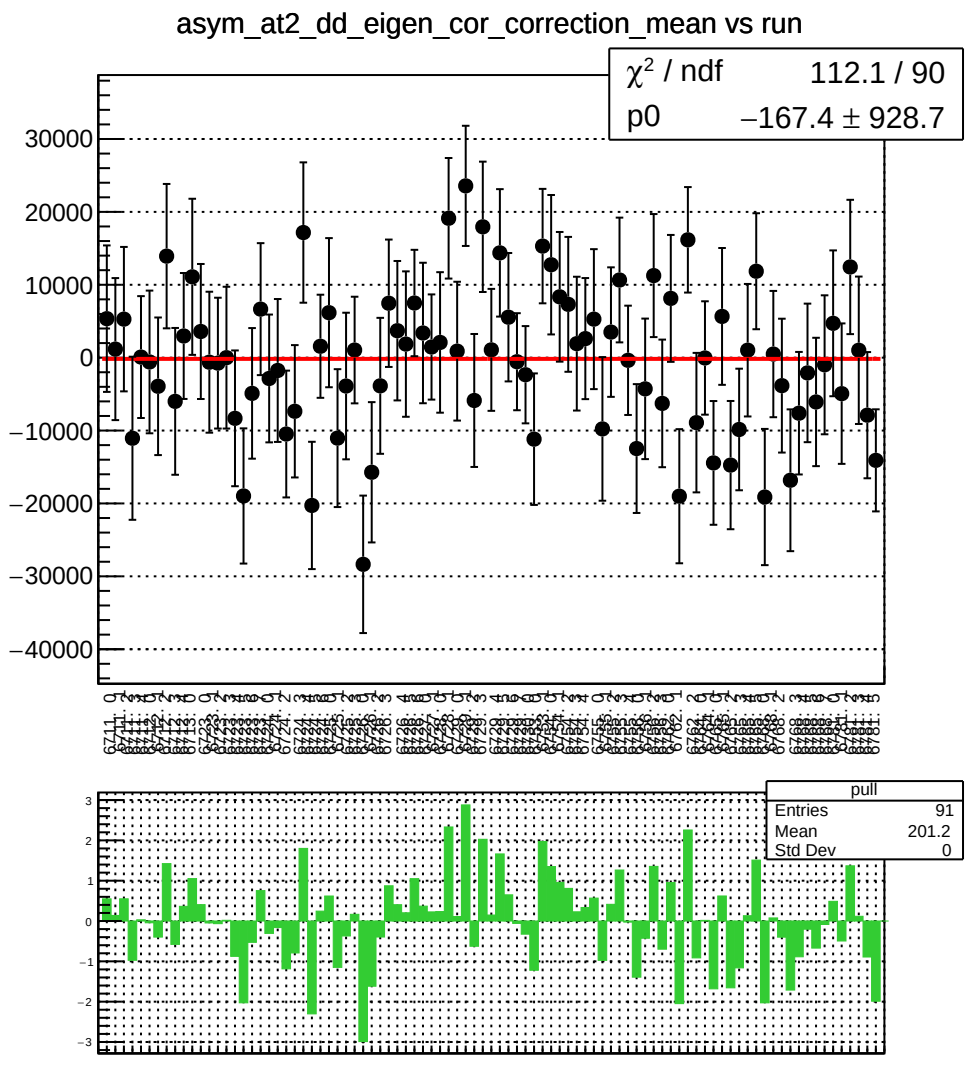

pull1D
Entries 91
Mean −0.01433
Std Dev 1.11
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

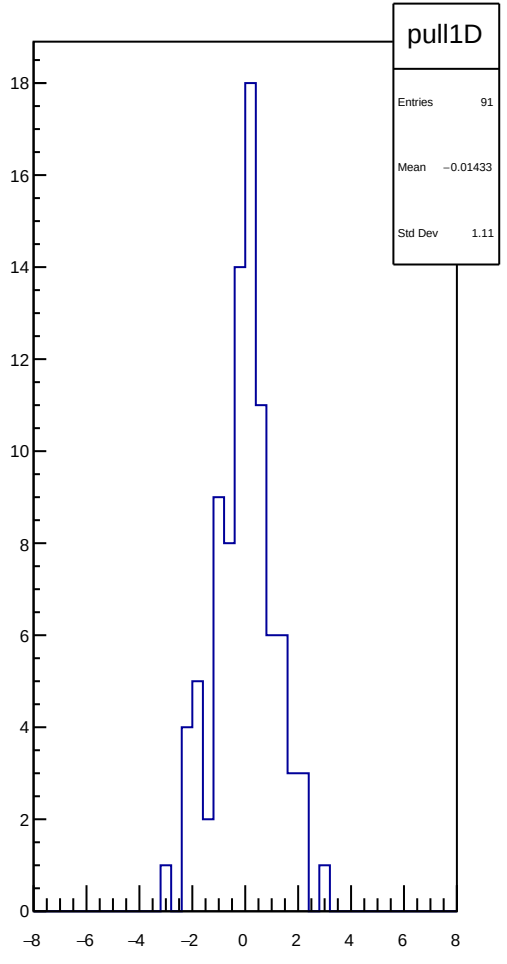

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 5770 / 90
p0 880.7 ± 0.6567
1050
1000
950
900
850
800
750

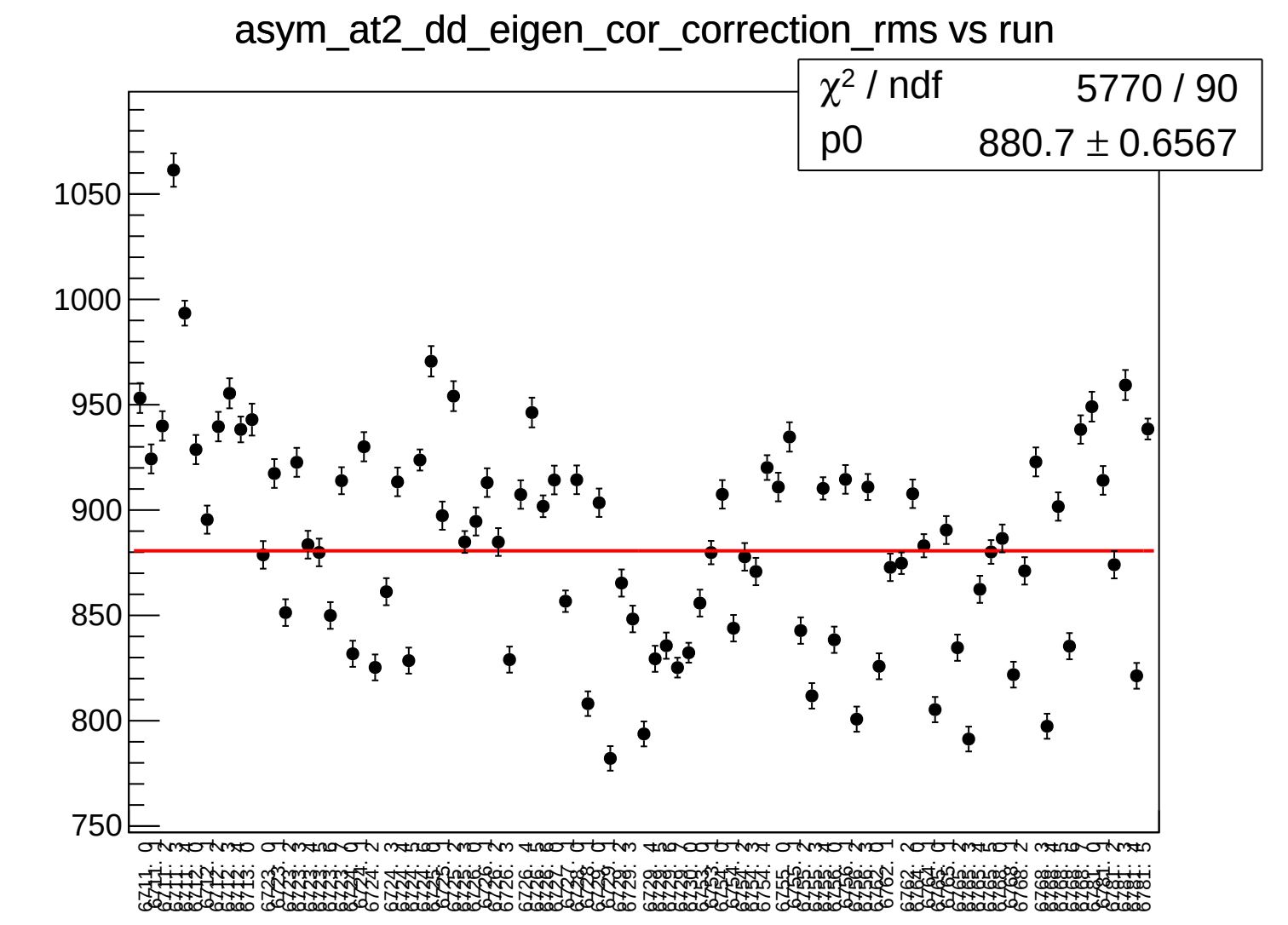

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 97.2 / 90
p0 −710.4 ± 1836
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −47.34
Std Dev 0
2
1
0
−1
−2
−3

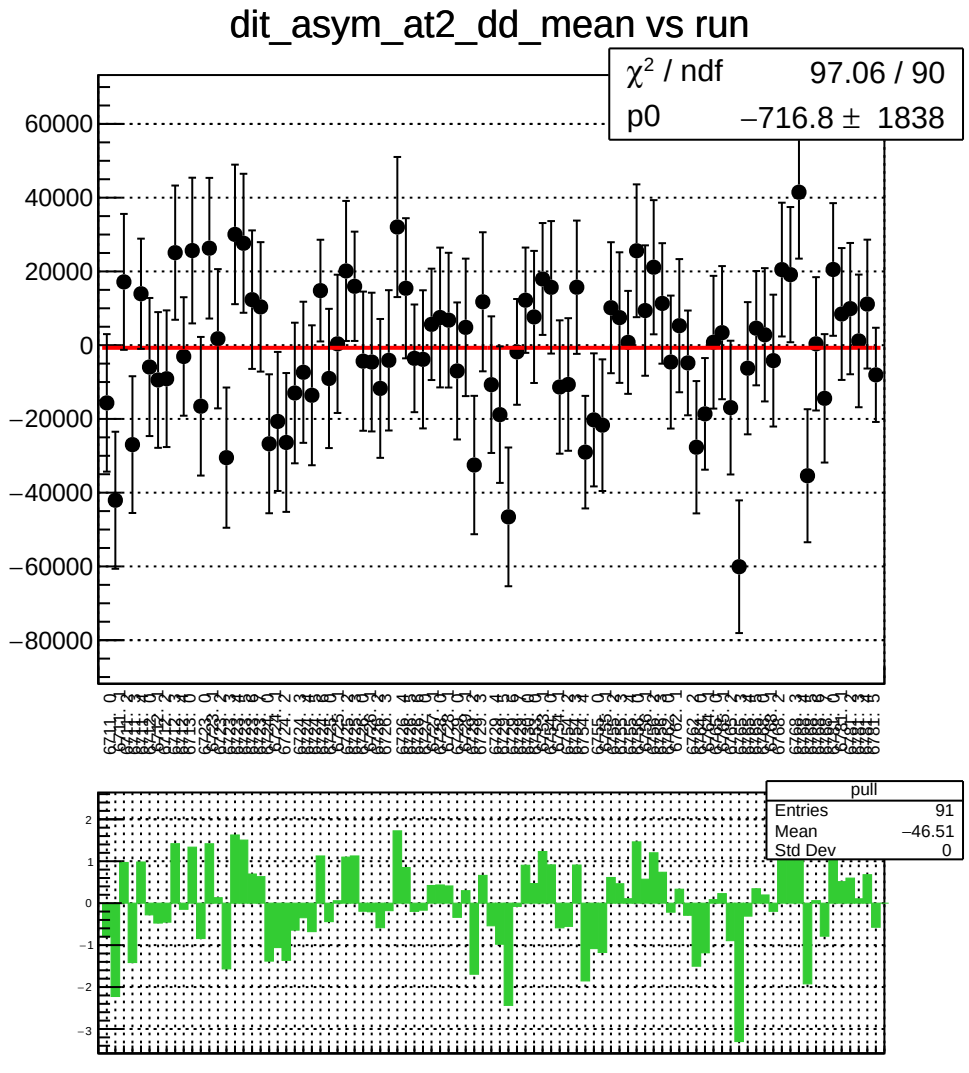

pull1D
Entries 91
Mean −0.00819
Std Dev 1.033
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

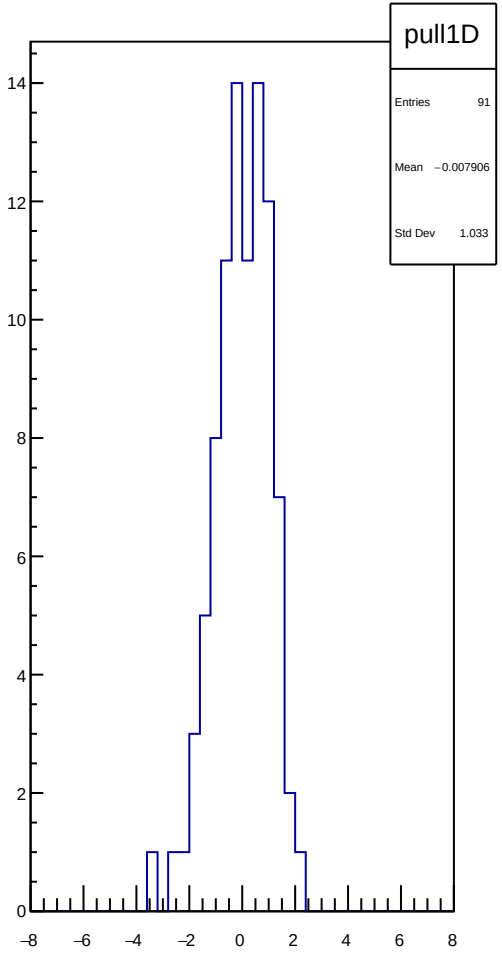

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 997.2 / 90
p0 1744 ± 1.298
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

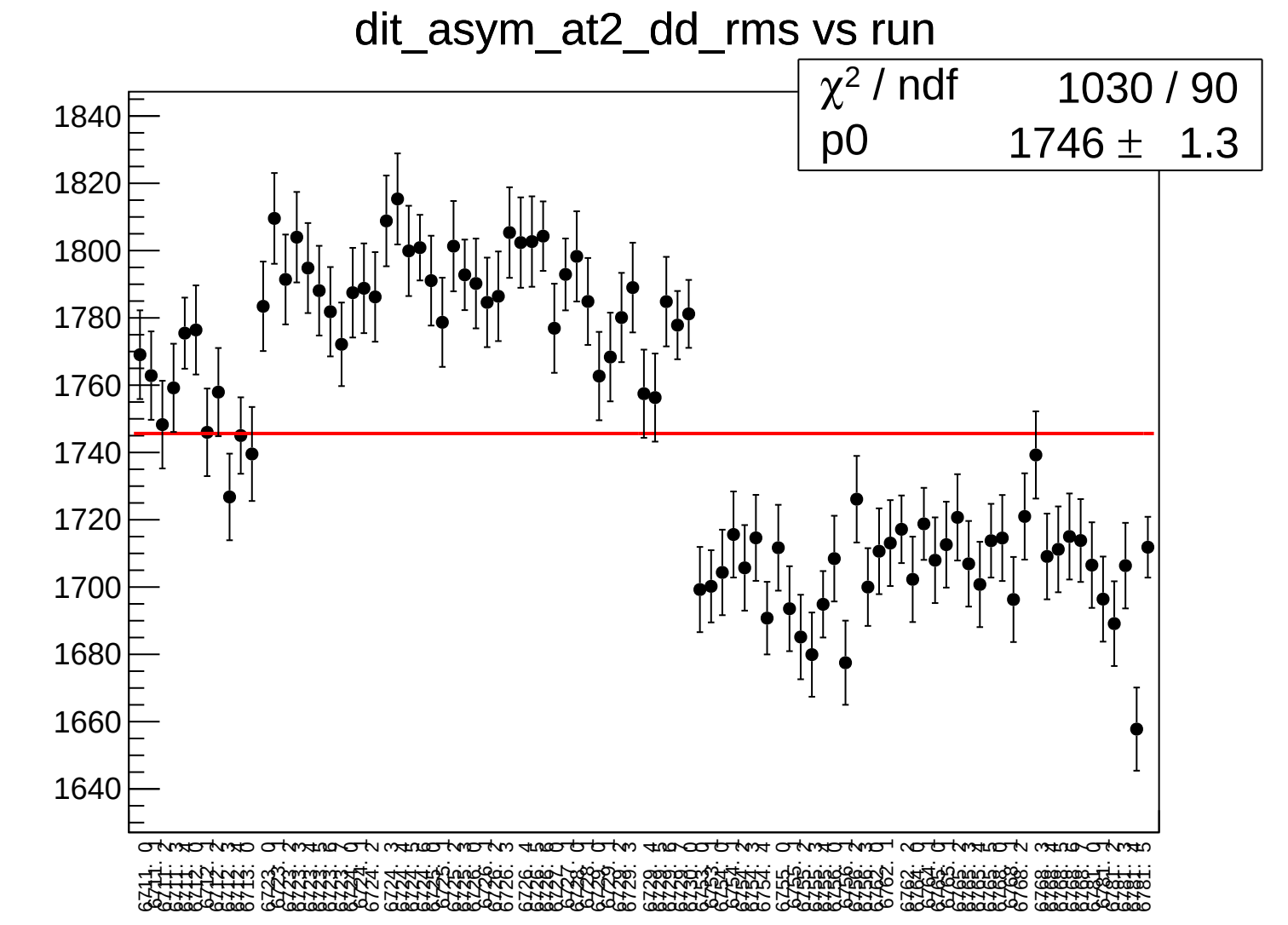

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 112.1 / 90
p0 −167.4 ± 928.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 201.2
Std Dev 0
3
2
1
0
−1
−2
−3

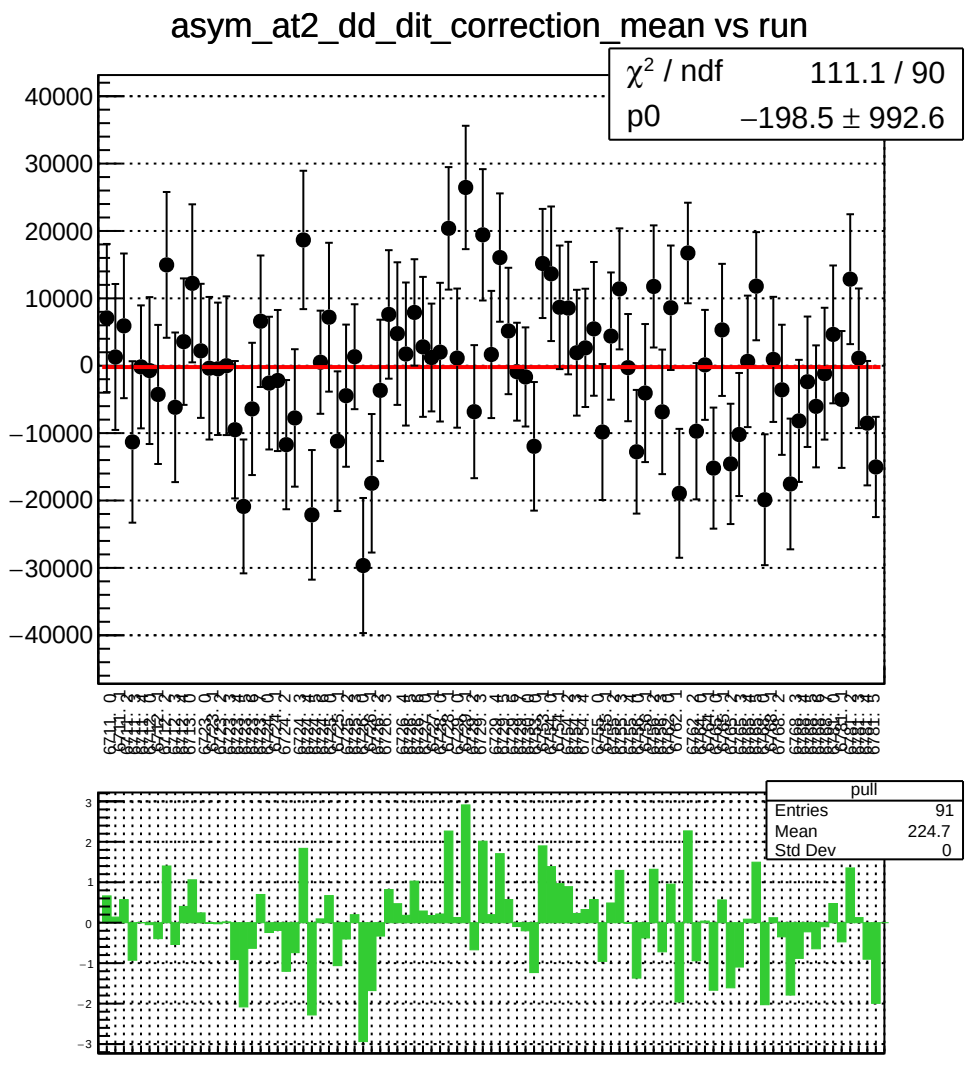

pull1D
Entries 91
Mean −0.01433
Std Dev 1.11
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

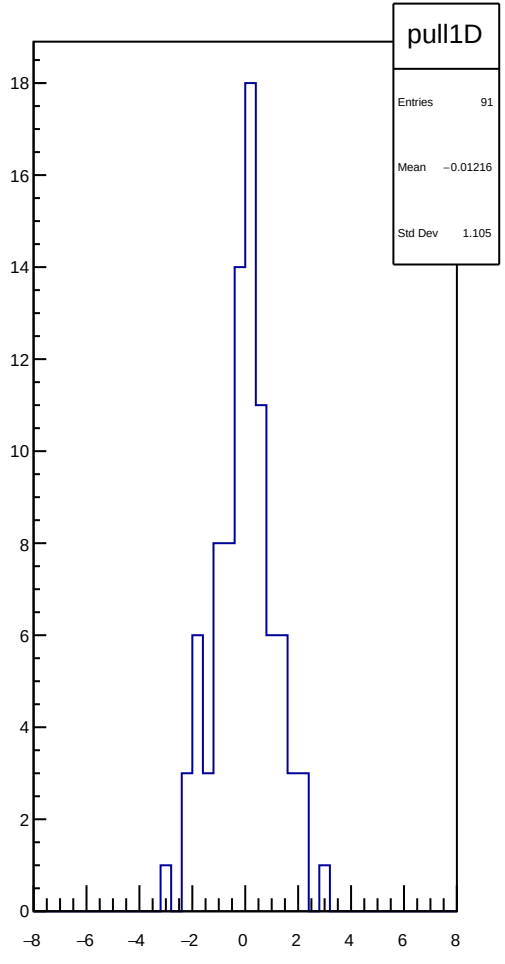

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5770 / 90
p0 880.7 ± 0.6567
1050
1000
950
900
850
800
750

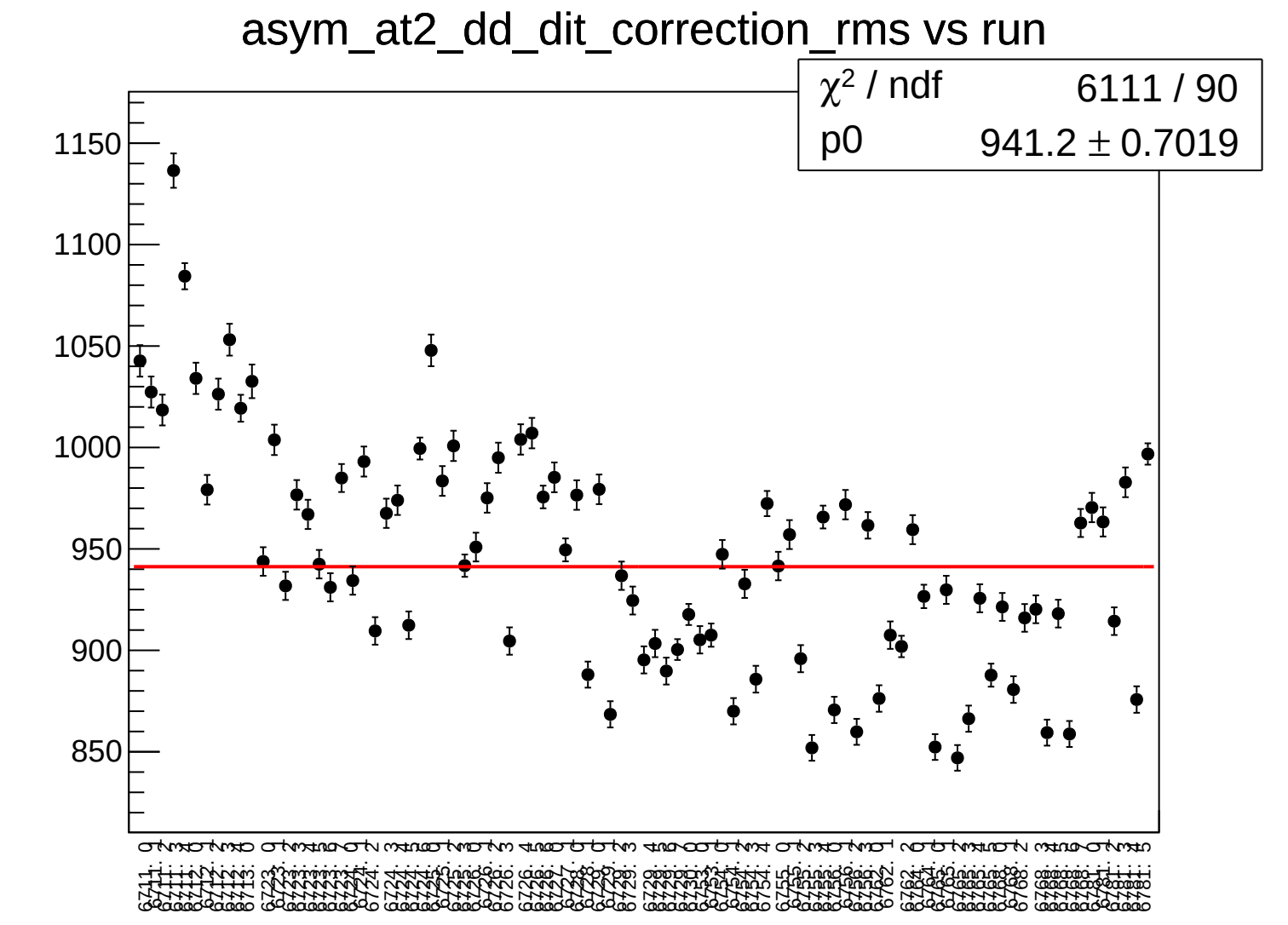

dit_asym_at2_dd_mean vs run
χ² / ndf 97.06 / 90
p0 −716.8 ± 1838
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −46.51
Std Dev 0
2
1
0
−1
−2
−3

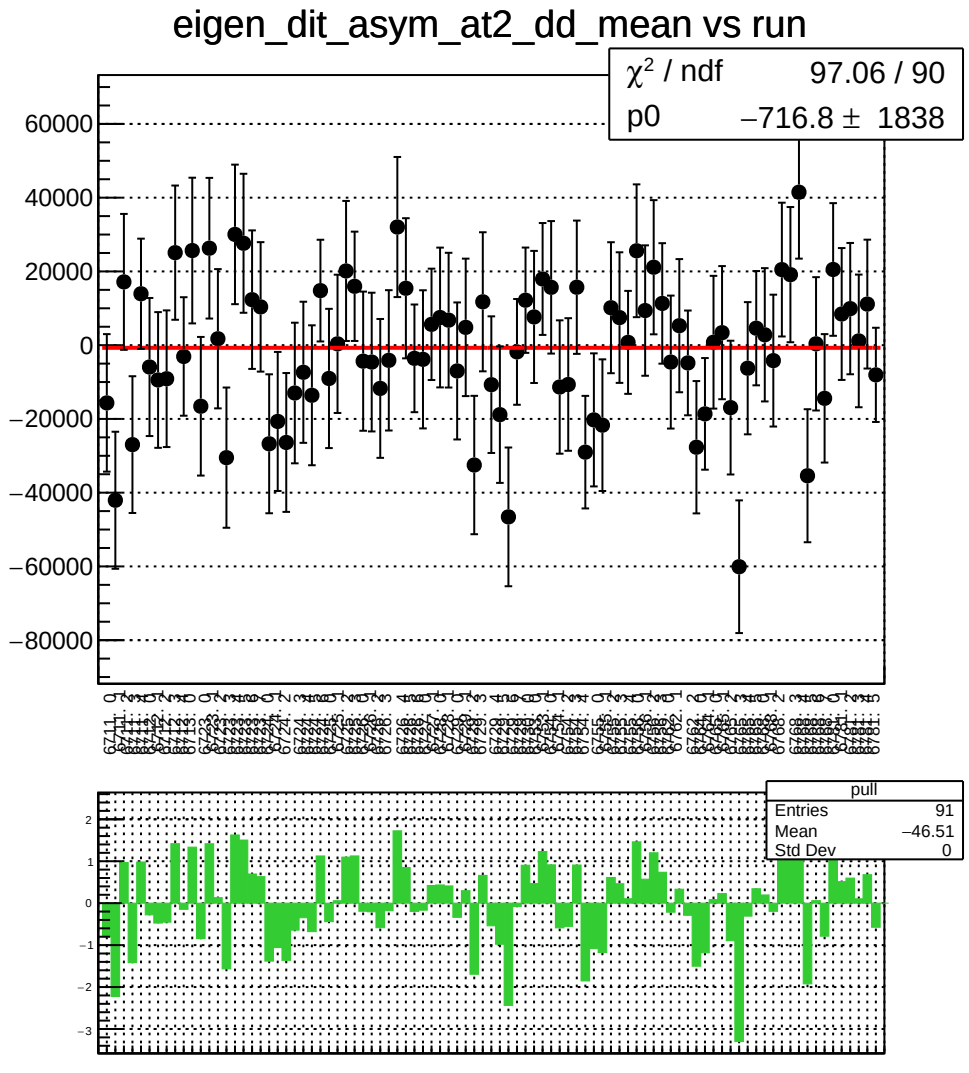

pull1D
Entries 91
Mean −0.007906
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

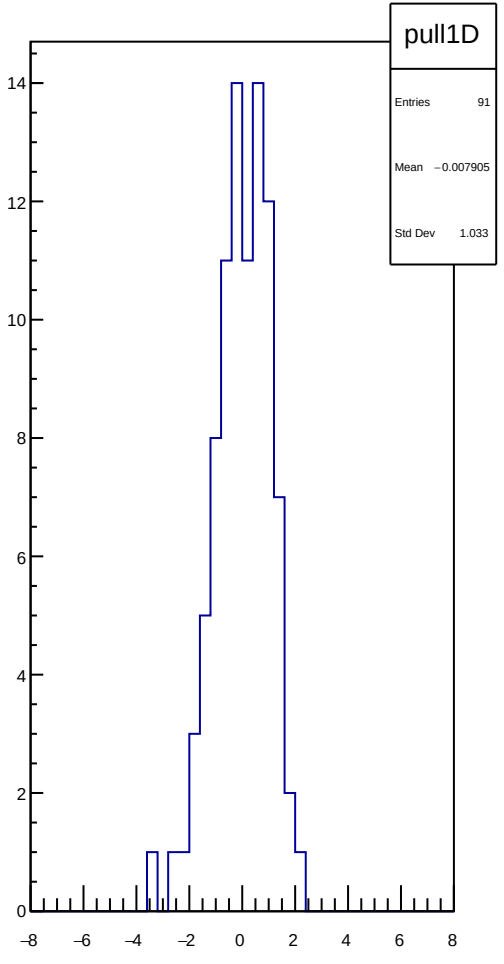

dit_asym_at2_dd_rms vs run
χ² / ndf 1030 / 90
p0 1746 ± 1.3
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

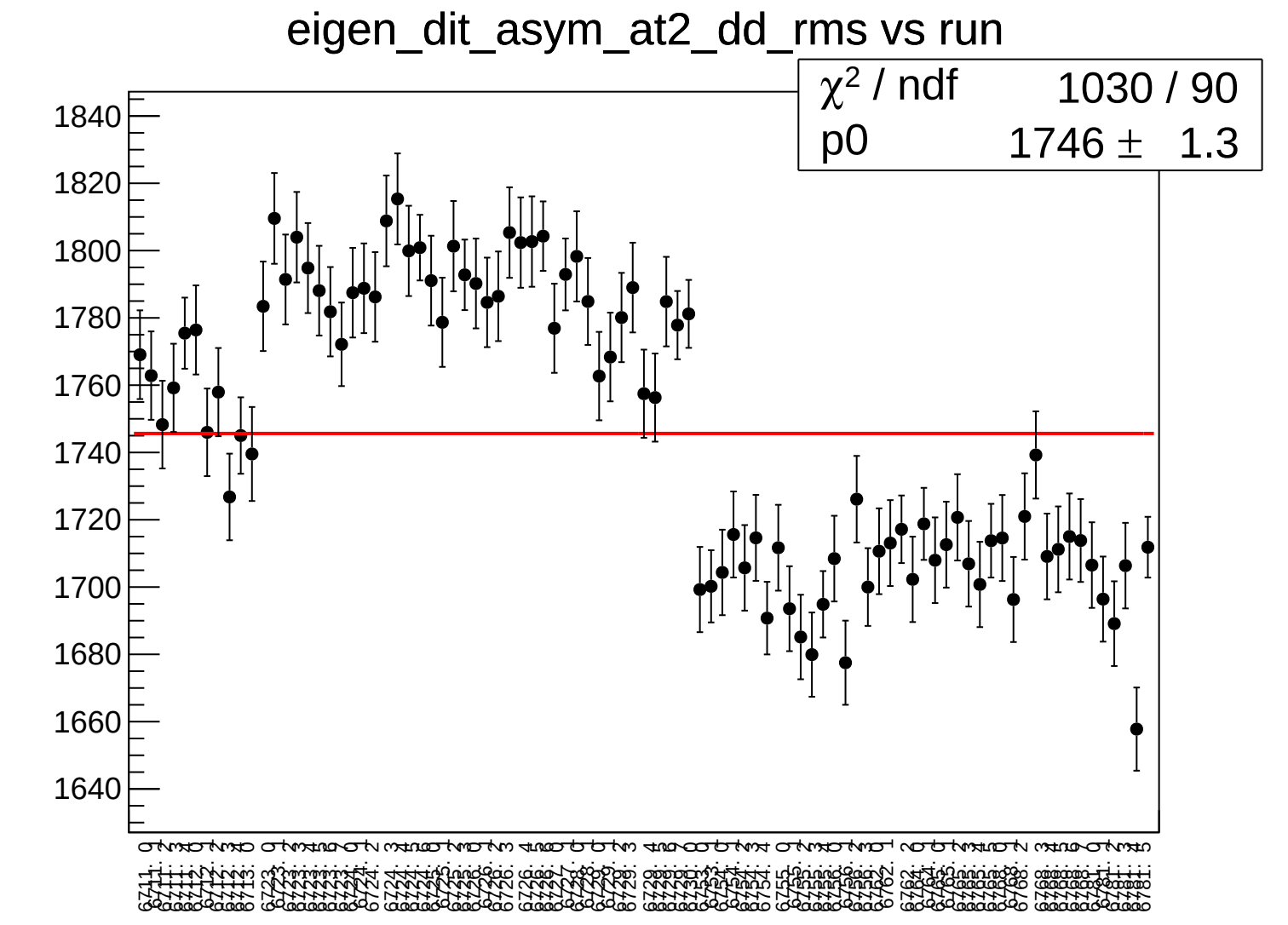

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 111.1 / 90
p0 −198.5 ± 992.6
pull
Entries 91
Mean 224.7
Std Dev 0

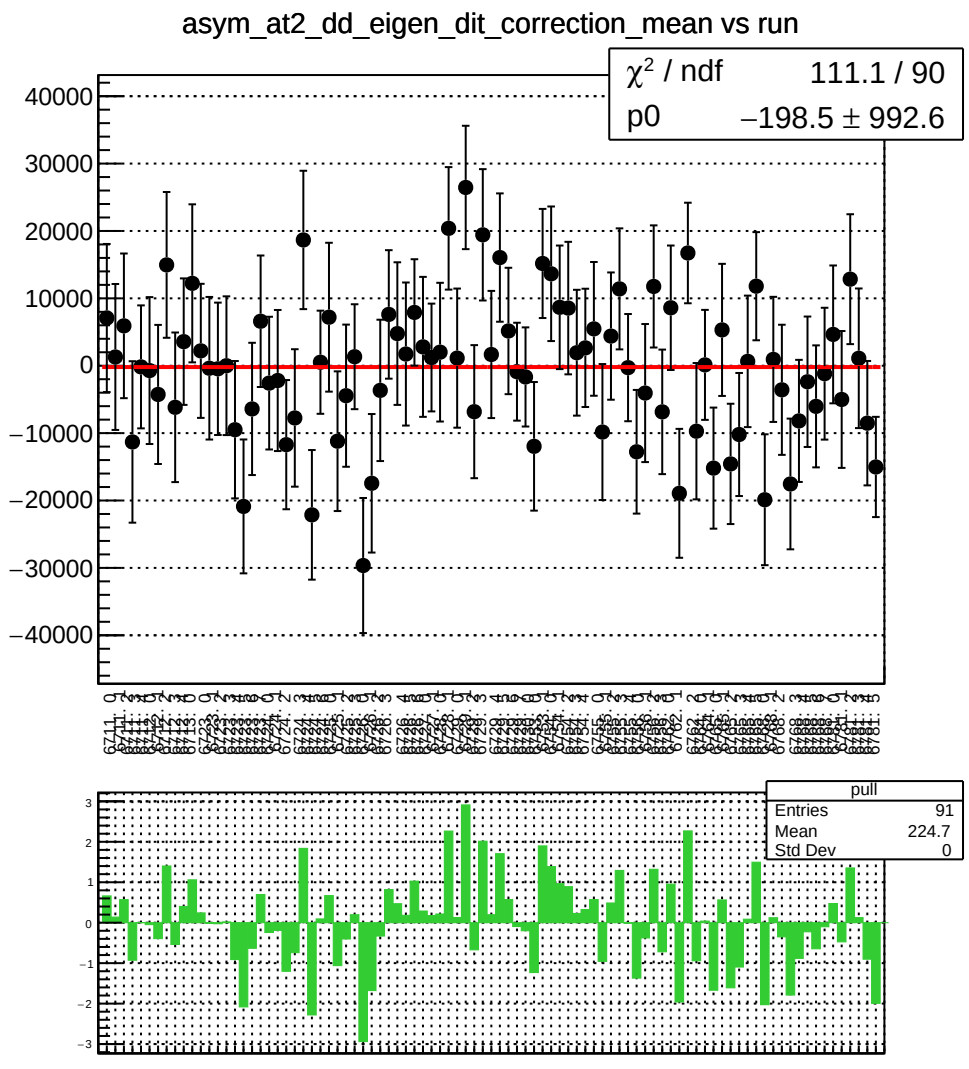

pull1D
Entries 91
Mean −0.01216
Std Dev 1.105

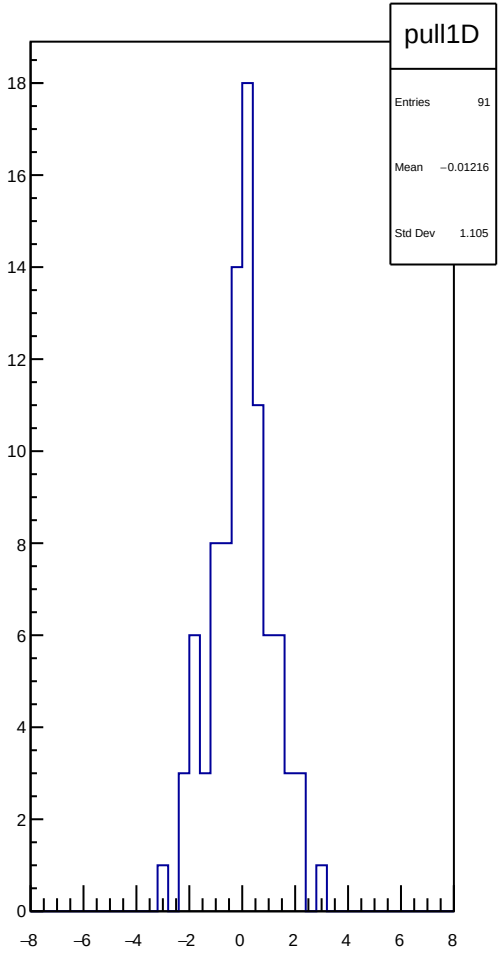

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 6111 / 90
p0 941.2 ± 0.7019
1150
1100
1050
1000
950
900
850

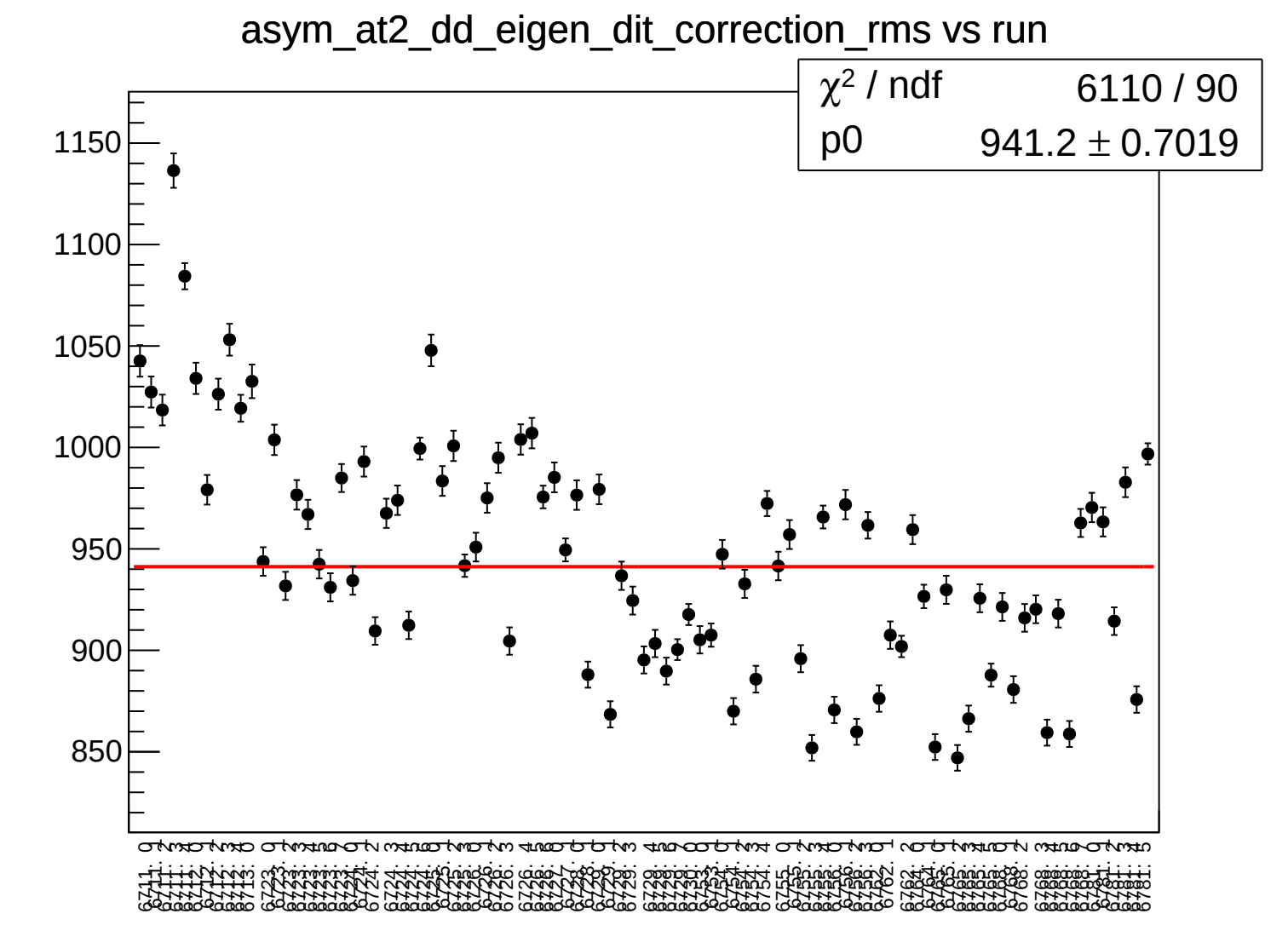

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 97.06 / 90
p0 −716.8 ± 1838
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −46.51
Std Dev 0
2
1
0
−1
−2
−3

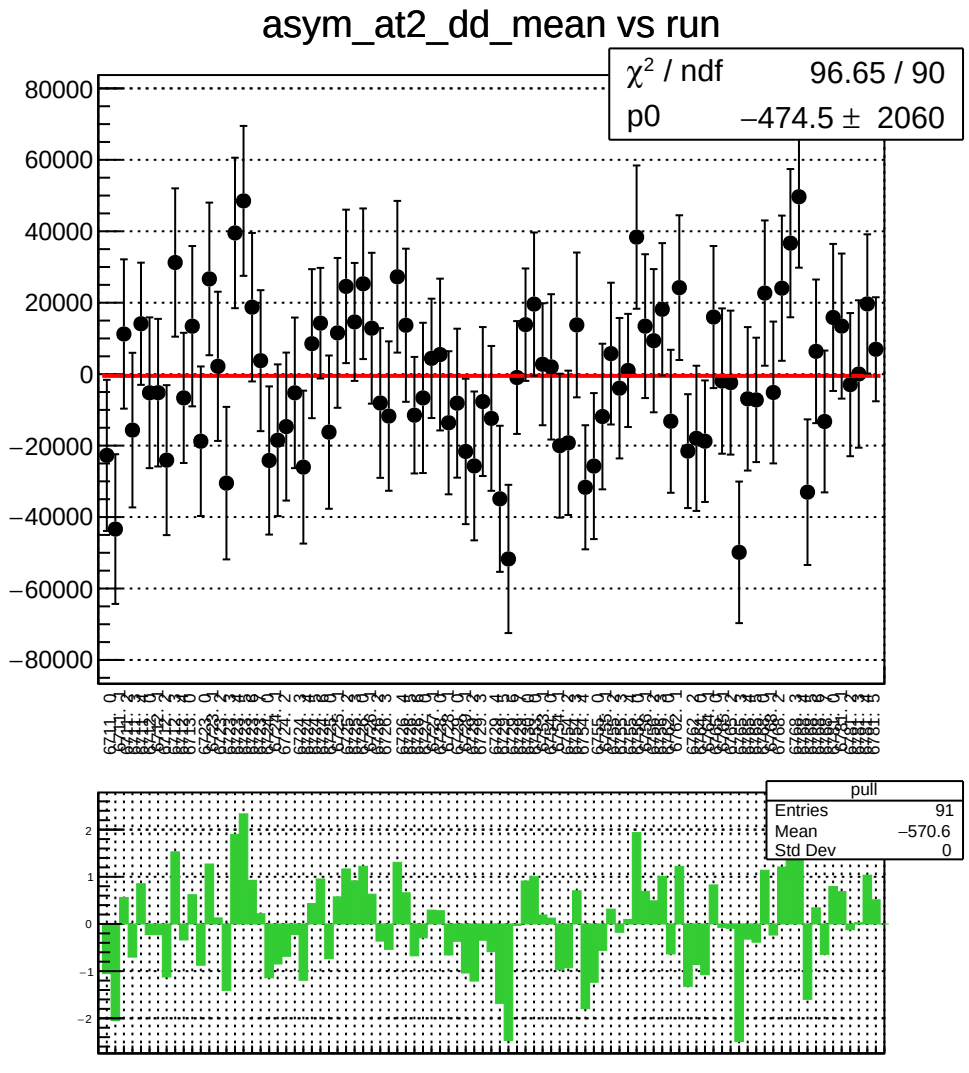

pull1D
Entries 91
Mean −0.007905
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

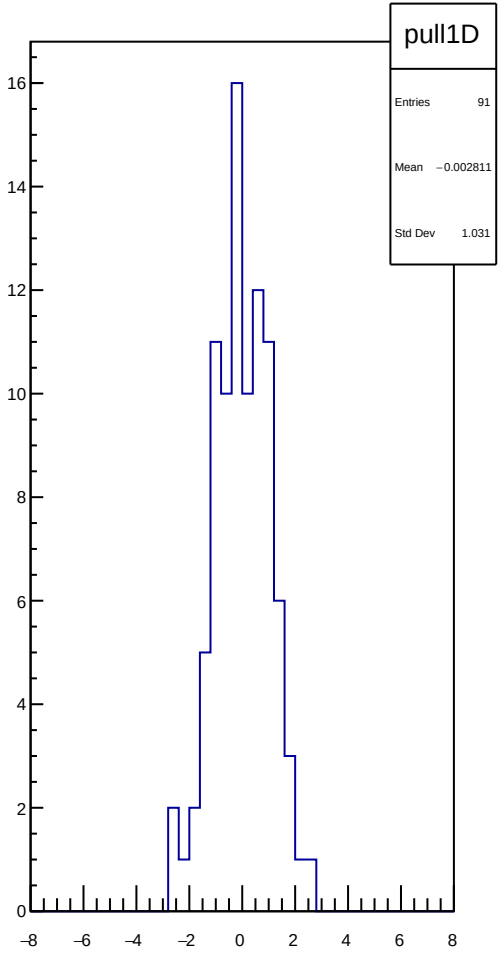

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 1030 / 90
p0 1746 ± 1.3
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

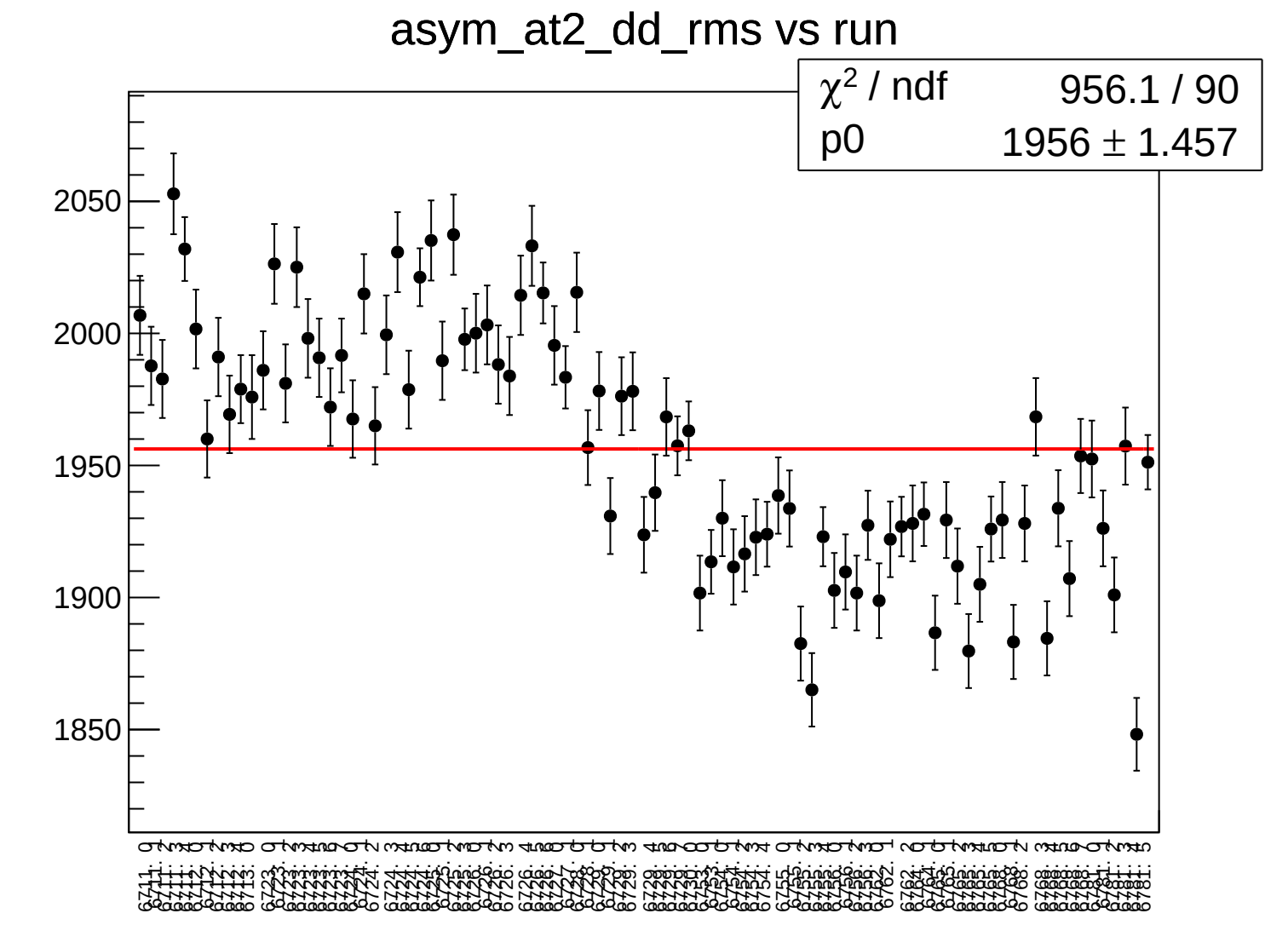

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 111.1 / 90
p0 −198.5 ± 992.6
pull
Entries 91
Mean 224.7
Std Dev 0

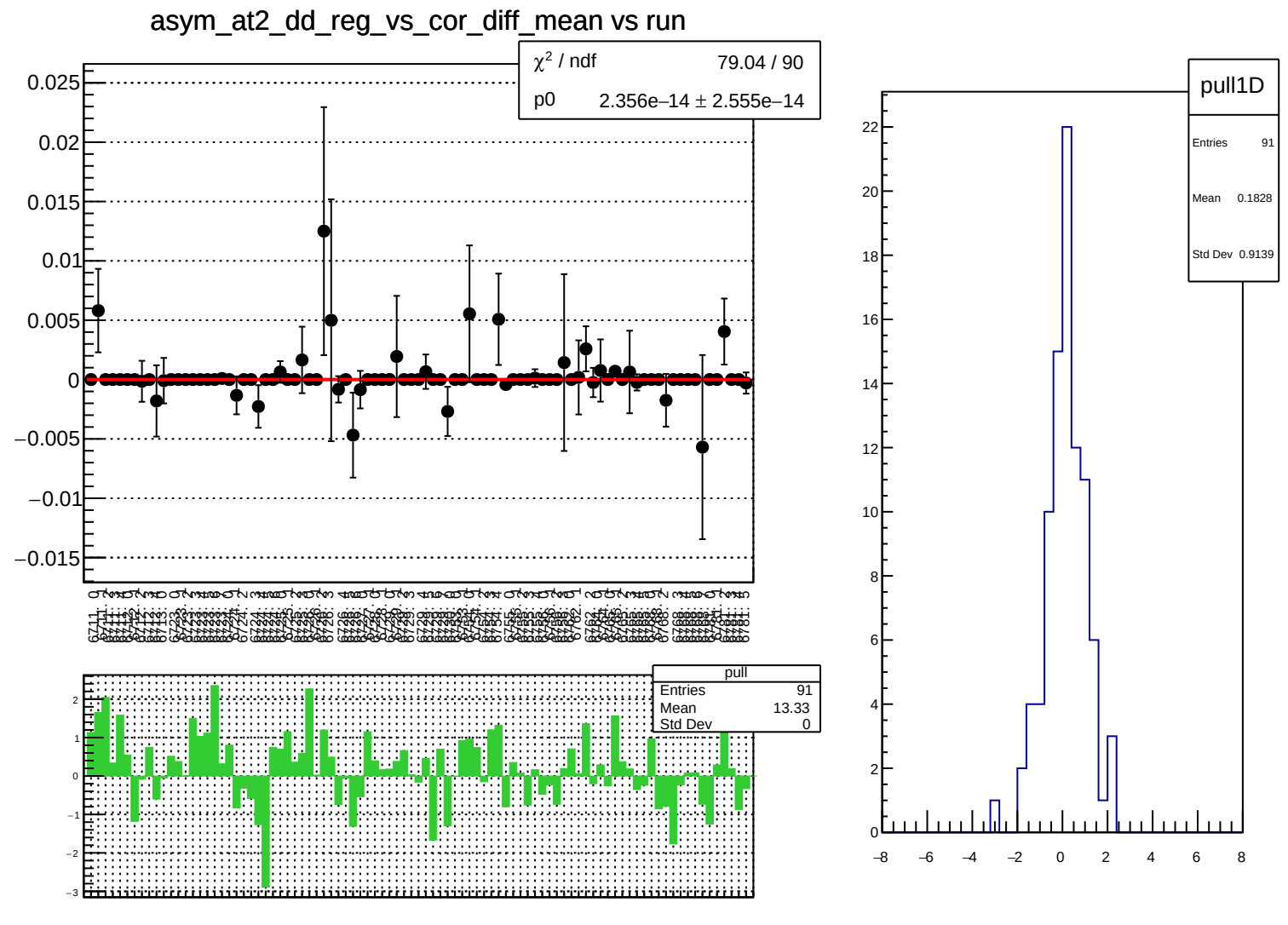

pull1D
Entries 91
Mean −0.01216
Std Dev 1.105

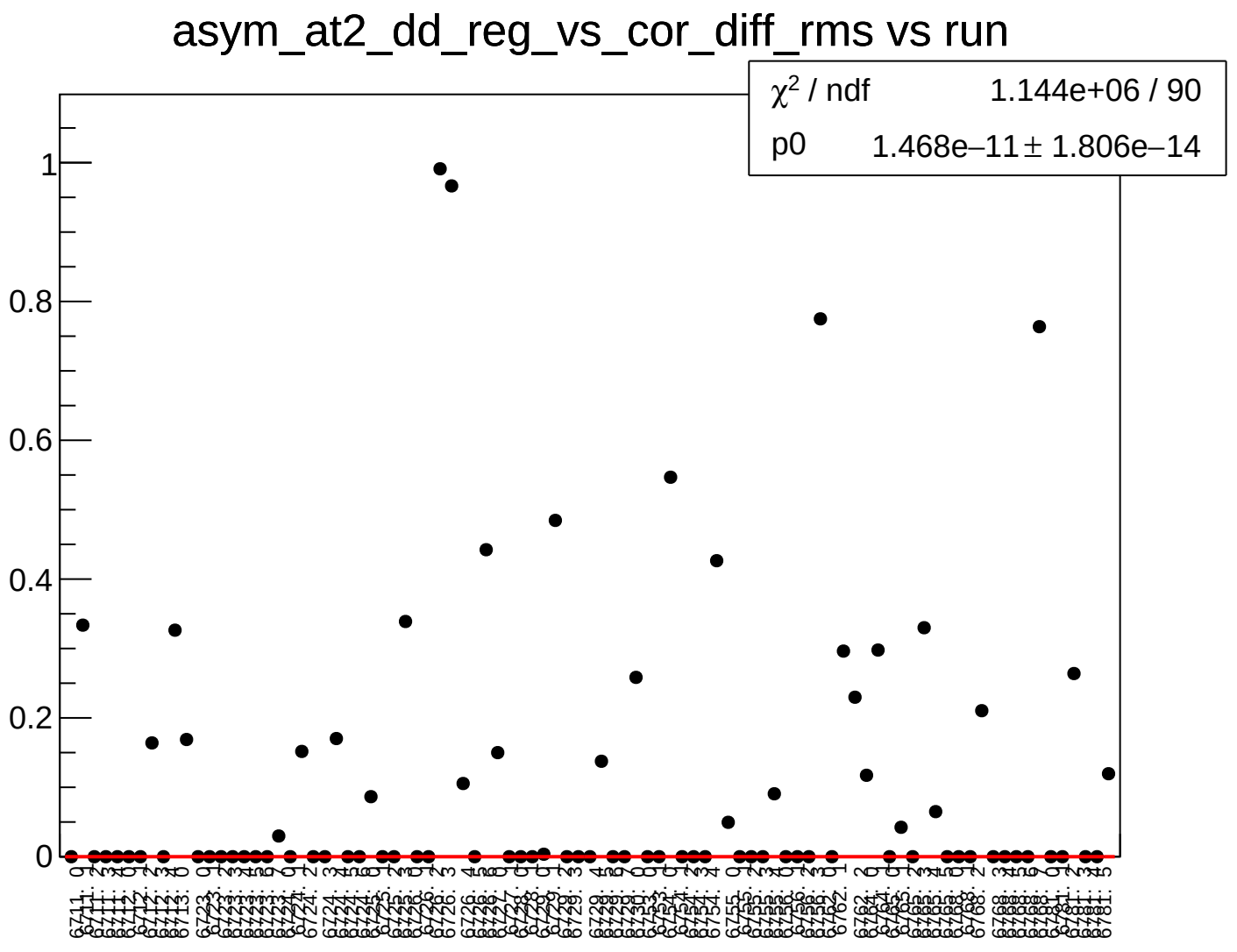

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6110 / 90
p0 941.2 ± 0.7019
1150
1100
1050
1000
950
900
850

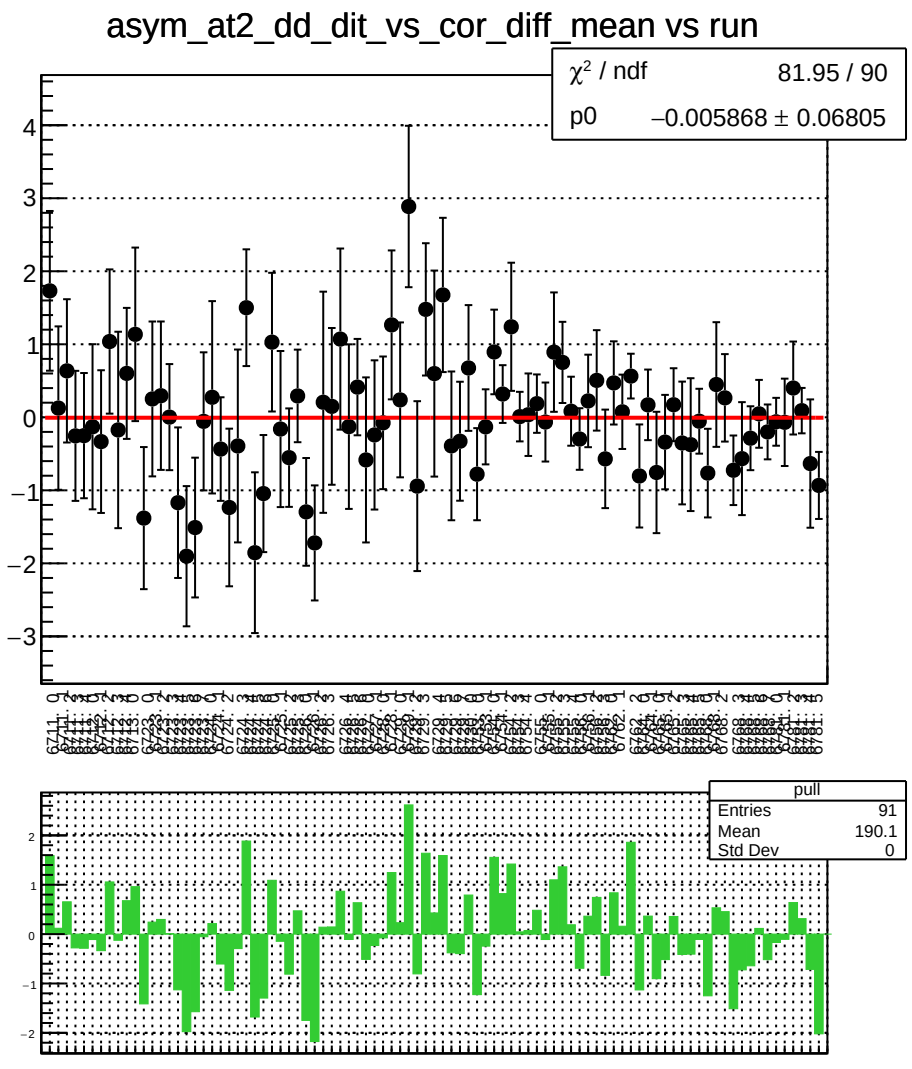

asym_at2_dd_mean vs run
χ² / ndf 96.65 / 90
p0 −474.5 ± 2060
pull
Entries 91
Mean −570.6
Std Dev 0

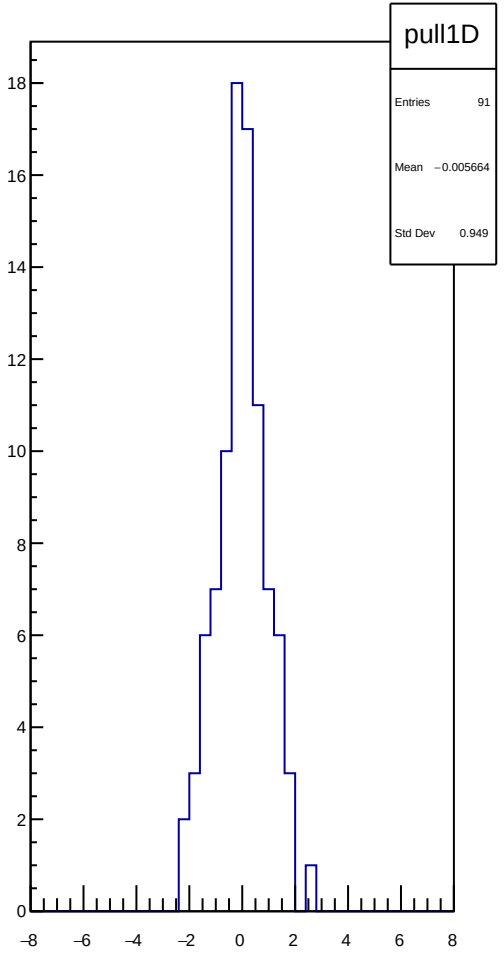

pull1D
Entries 91
Mean −0.002811
Std Dev 1.031

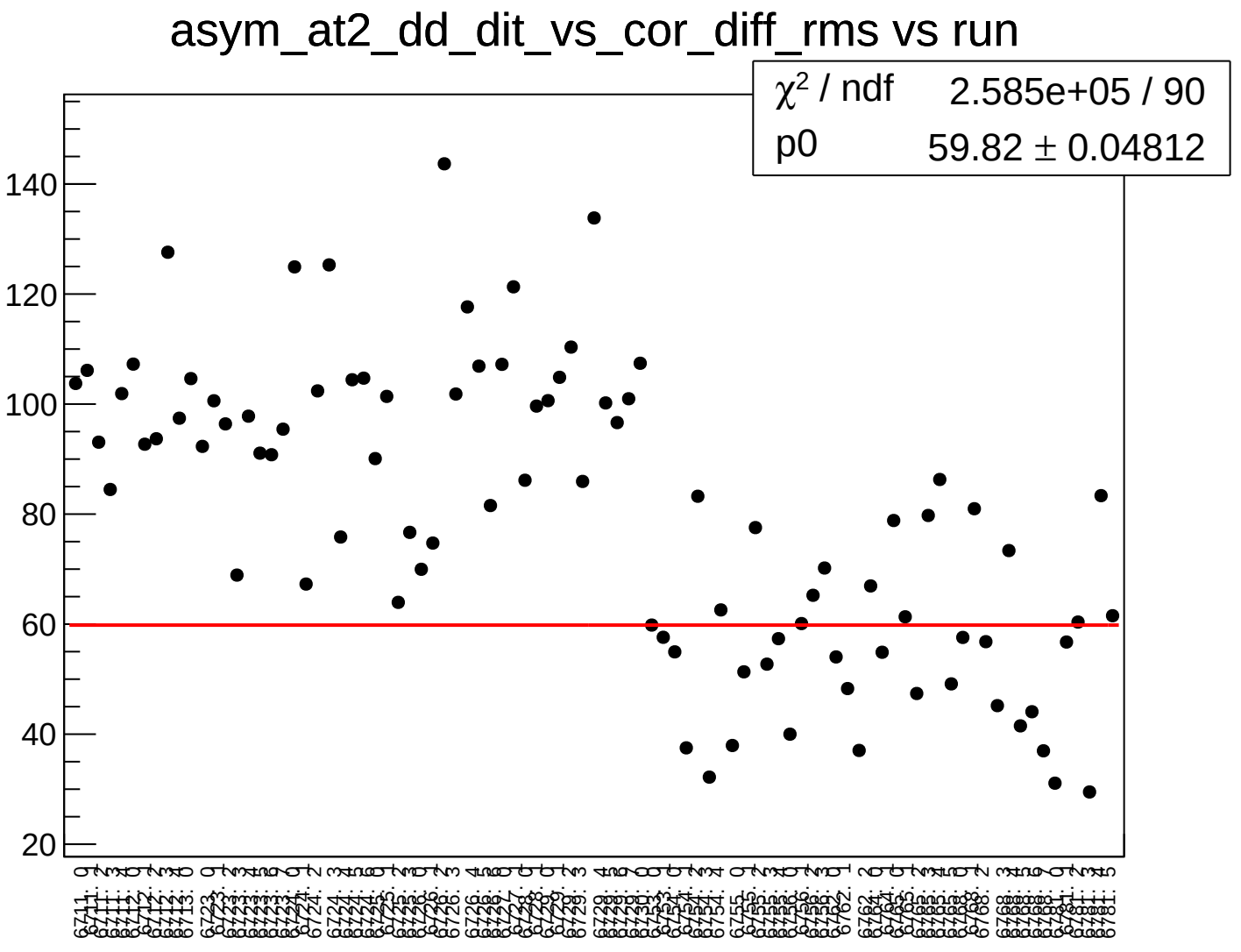

asym_at2_dd_rms vs run
χ^2 / ndf 956.1 / 90
p0 1956 ± 1.457
2050
2000
1950
1900
1850

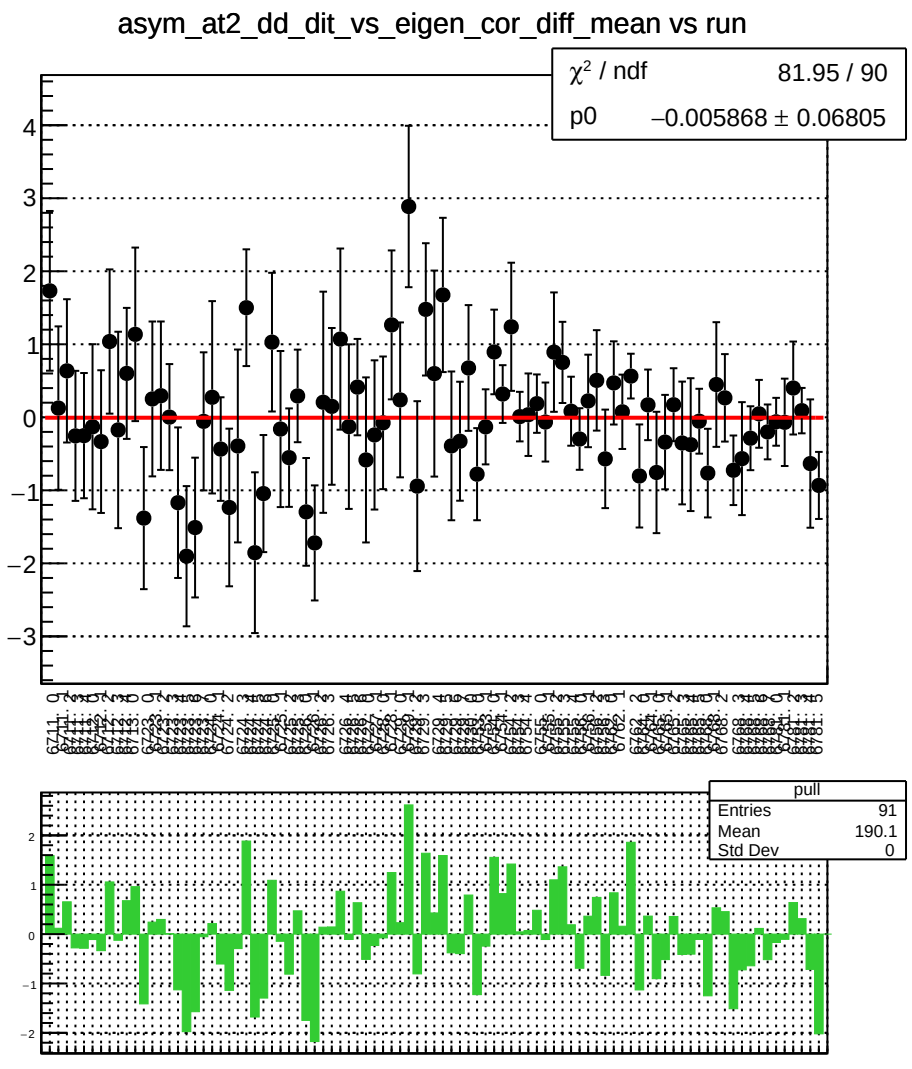

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.04 / 90
p0 2.356e−14 ± 2.555e−14
pull
Entries 91
Mean 13.33
Std Dev 0
pull1D
Entries 91
Mean 0.1828
Std Dev 0.9139

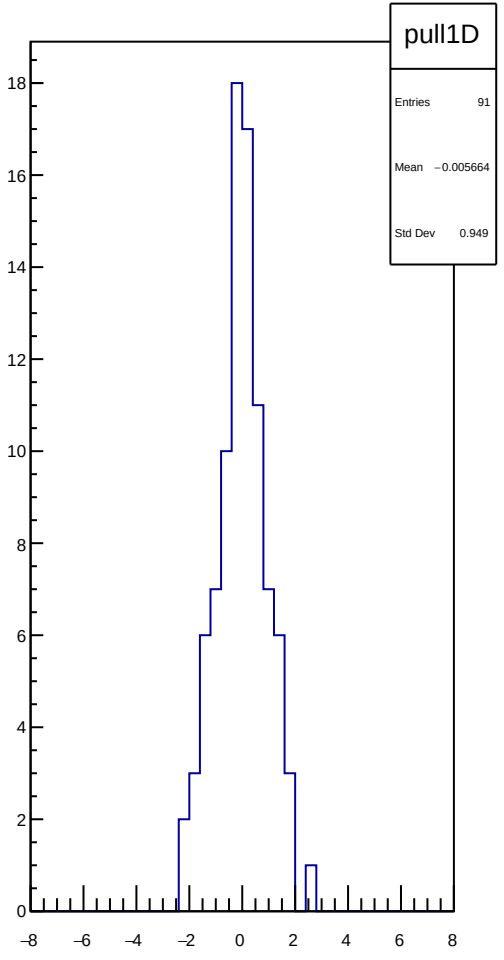

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.144e+06 / 90
p0 1.468e−11 ± 1.806e−14
1
0.8
0.6
0.4
0.2
0

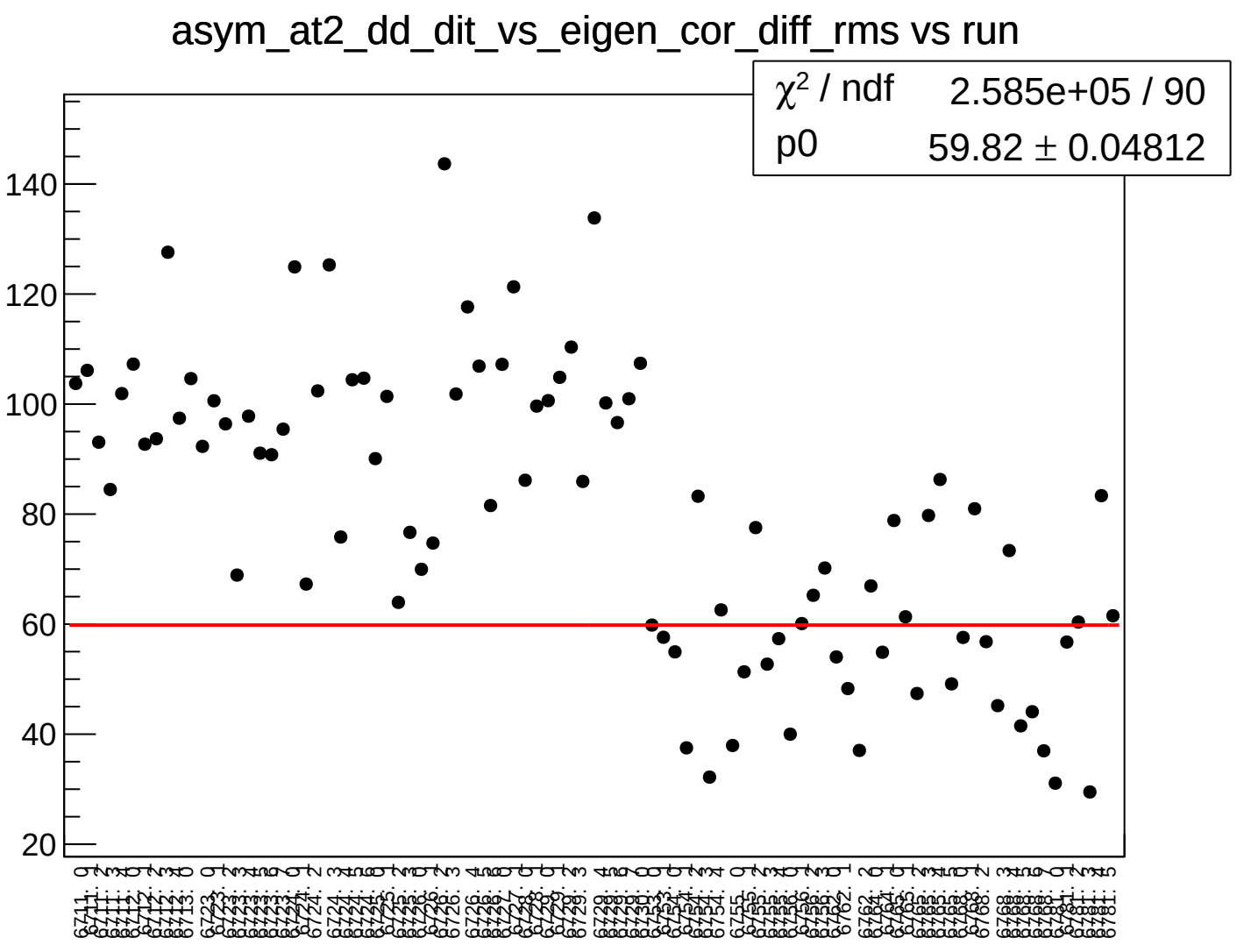

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.95 / 90
p0 −0.005868 ± 0.06805
pull
Entries 91
Mean 190.1
Std Dev 0

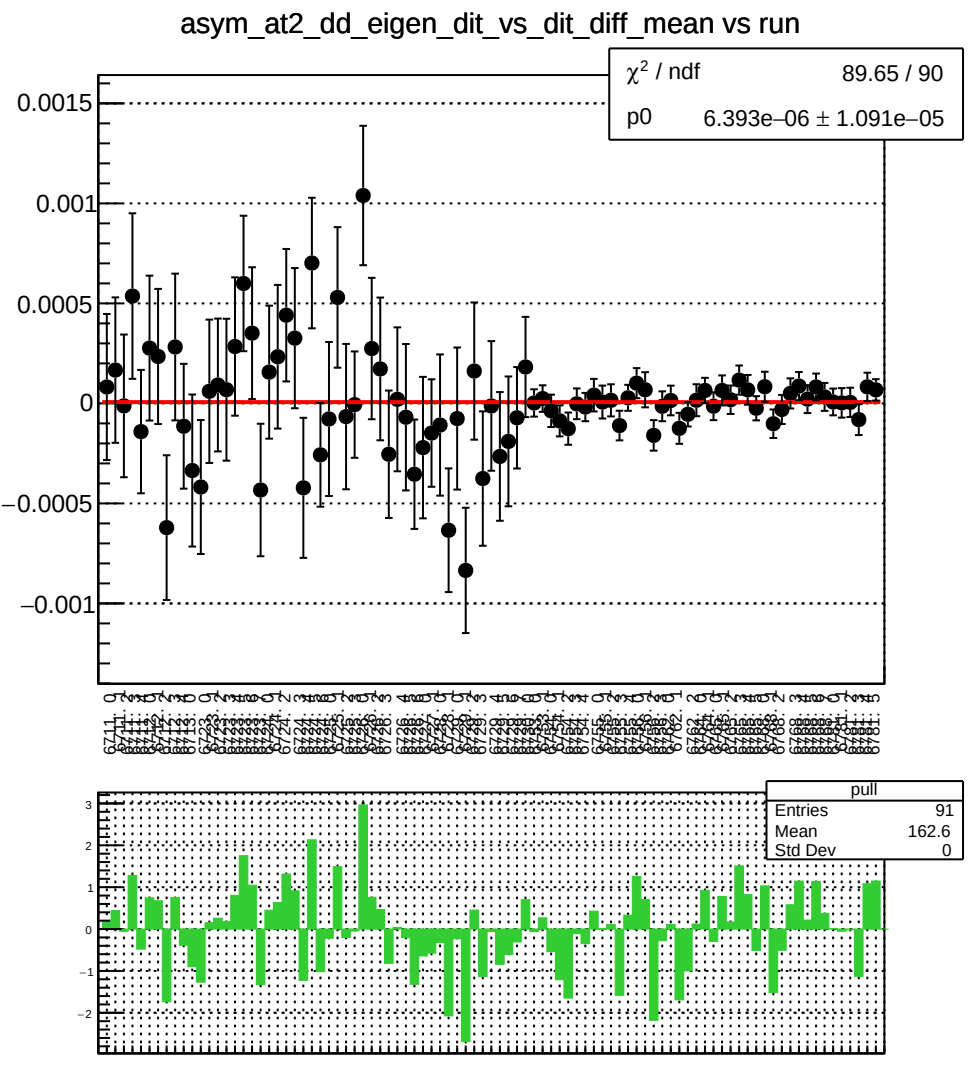

pull1D
Entries 91
Mean −0.005664
Std Dev 0.949

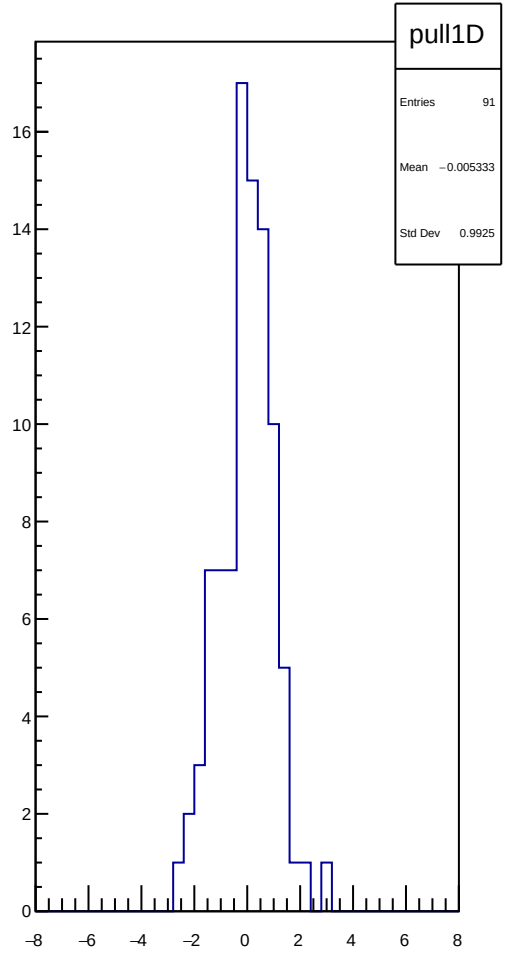

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.585e+05 / 90
p0 59.82 ± 0.04812
140
120
100
80
60
40
20

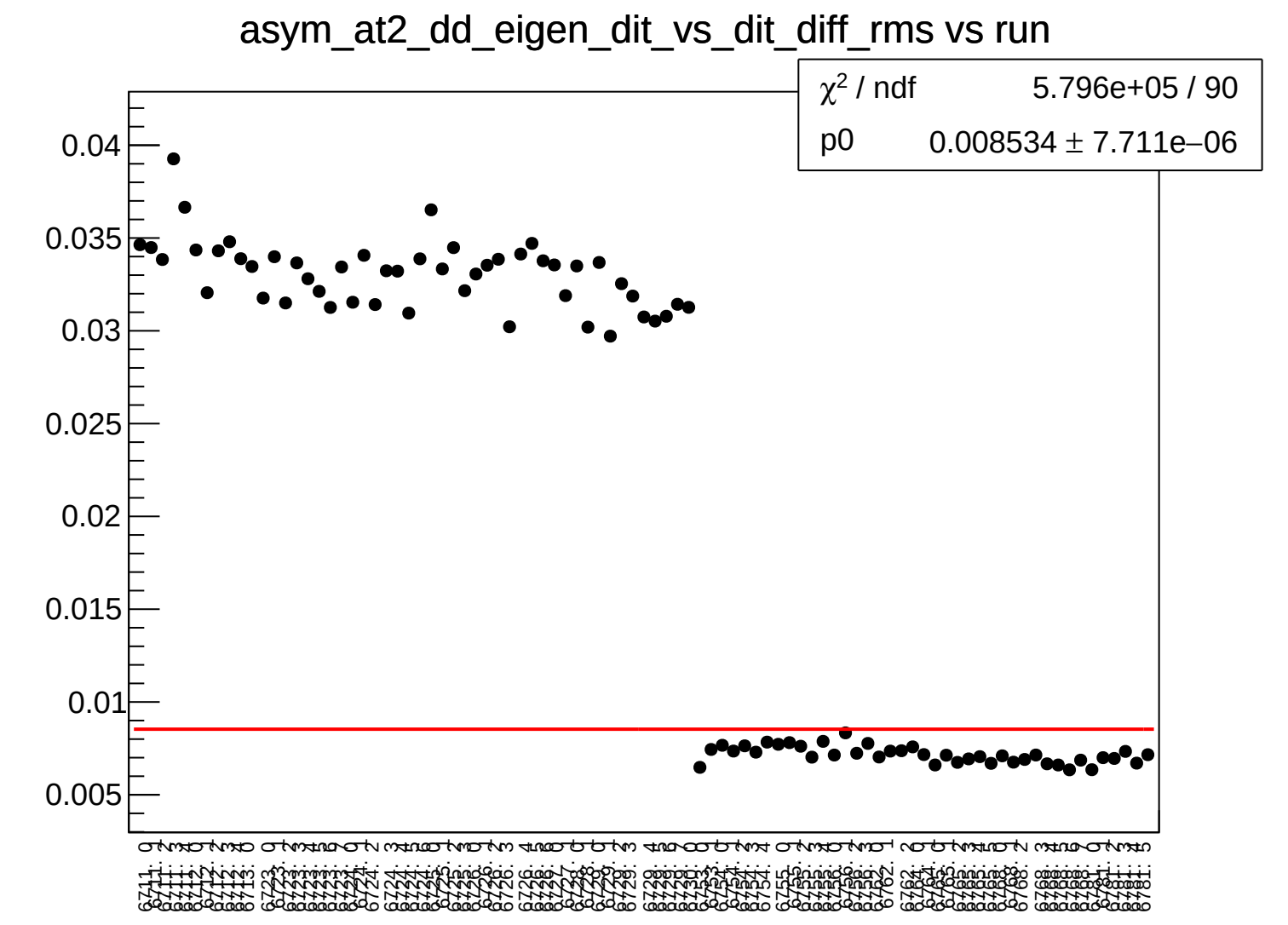

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.95 / 90
p0 −0.005868 ± 0.06805
pull
Entries 91
Mean 190.1
Std Dev 0

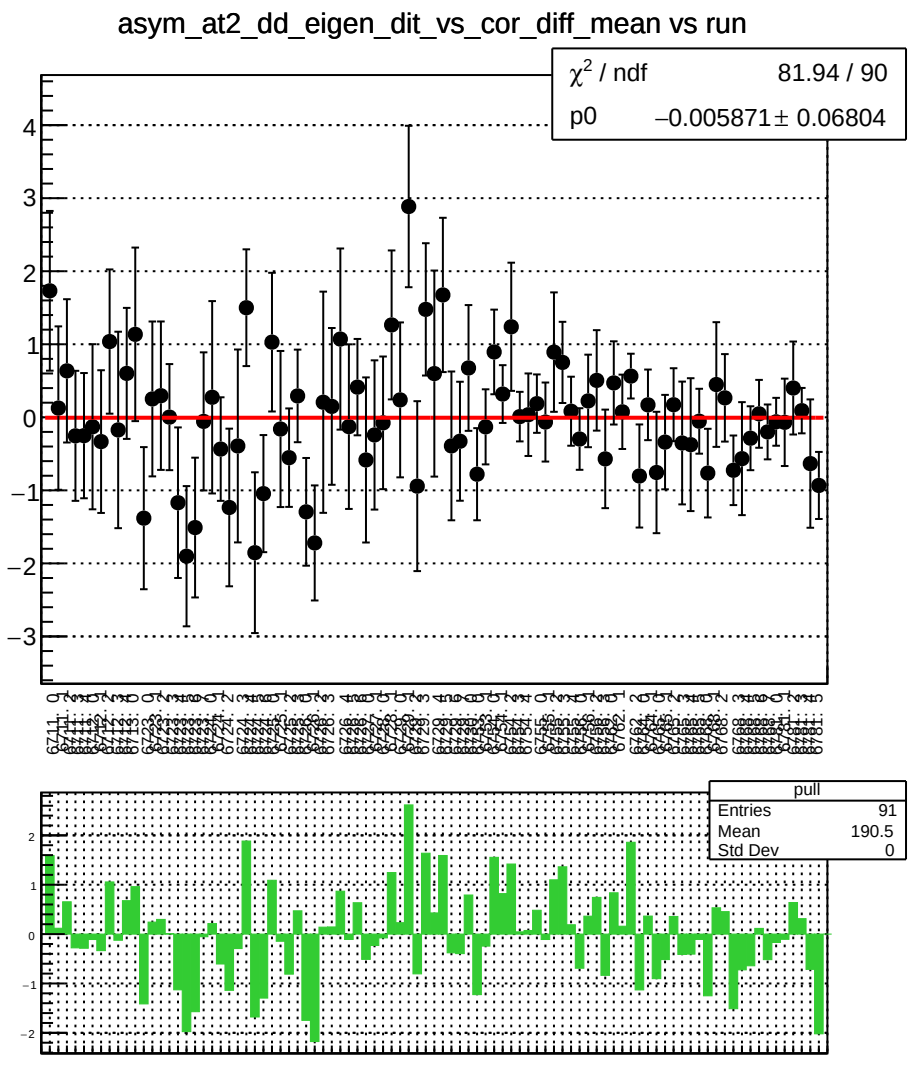

pull1D
Entries 91
Mean −0.005664
Std Dev 0.949

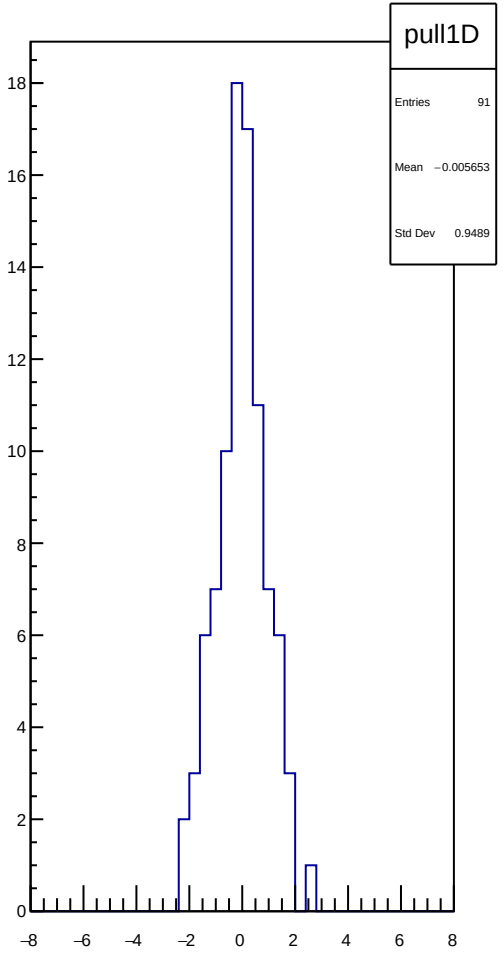

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.585e+05 / 90
p0 59.82 ± 0.04812
140
120
100
80
60
40
20

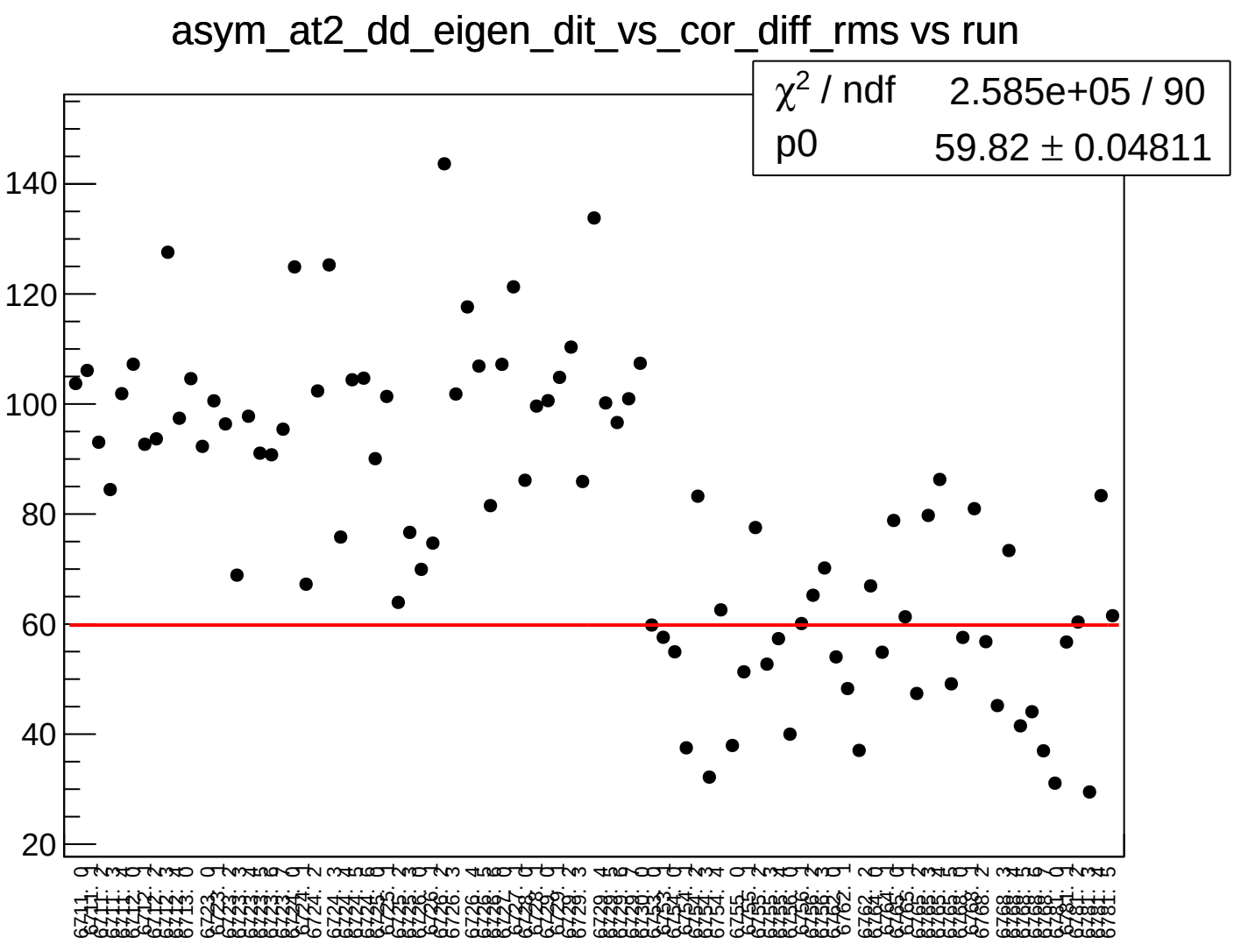

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 89.65 / 90
p0 6.393e−06 ± 1.091e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean 162.6
Std Dev 0
3
2
1
0
−1
−2

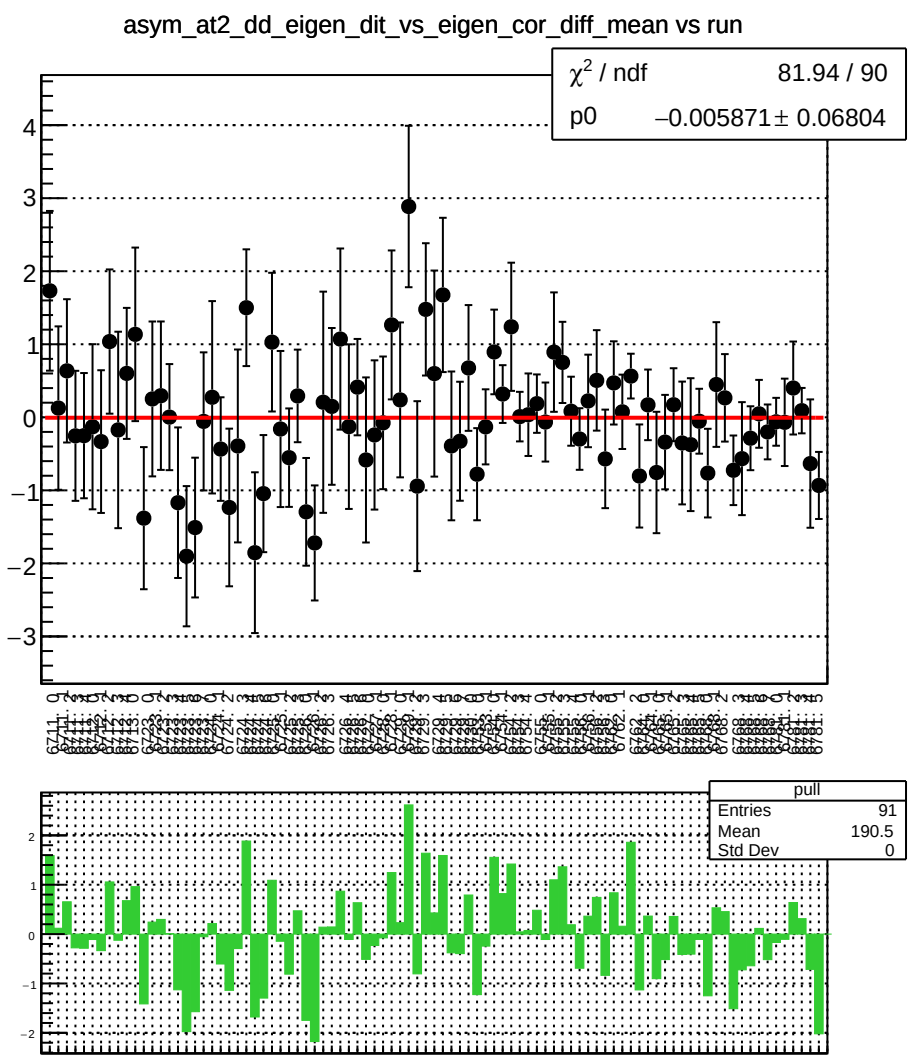

pull1D
Entries 91
Mean −0.005333
Std Dev 0.9925
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

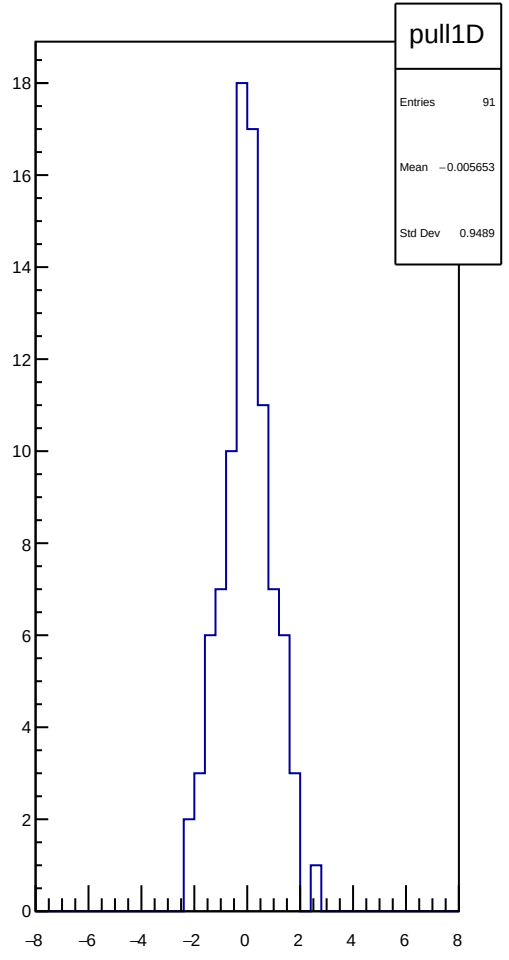

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.796e+05 / 90
p0 0.008534 ± 7.711e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

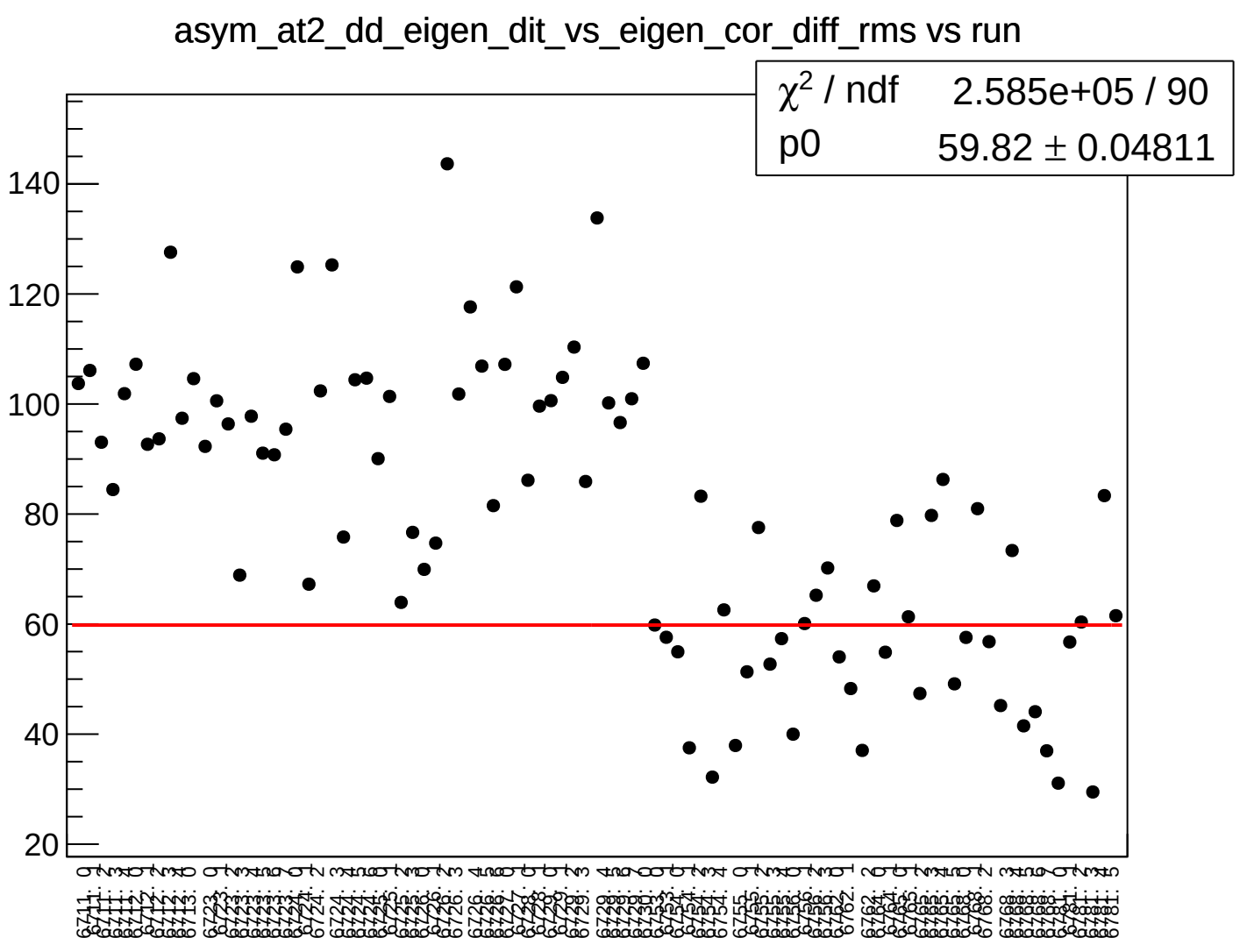

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.94 / 90
p0 −0.005871 ± 0.06804
pull
Entries 91
Mean 190.5
Std Dev 0

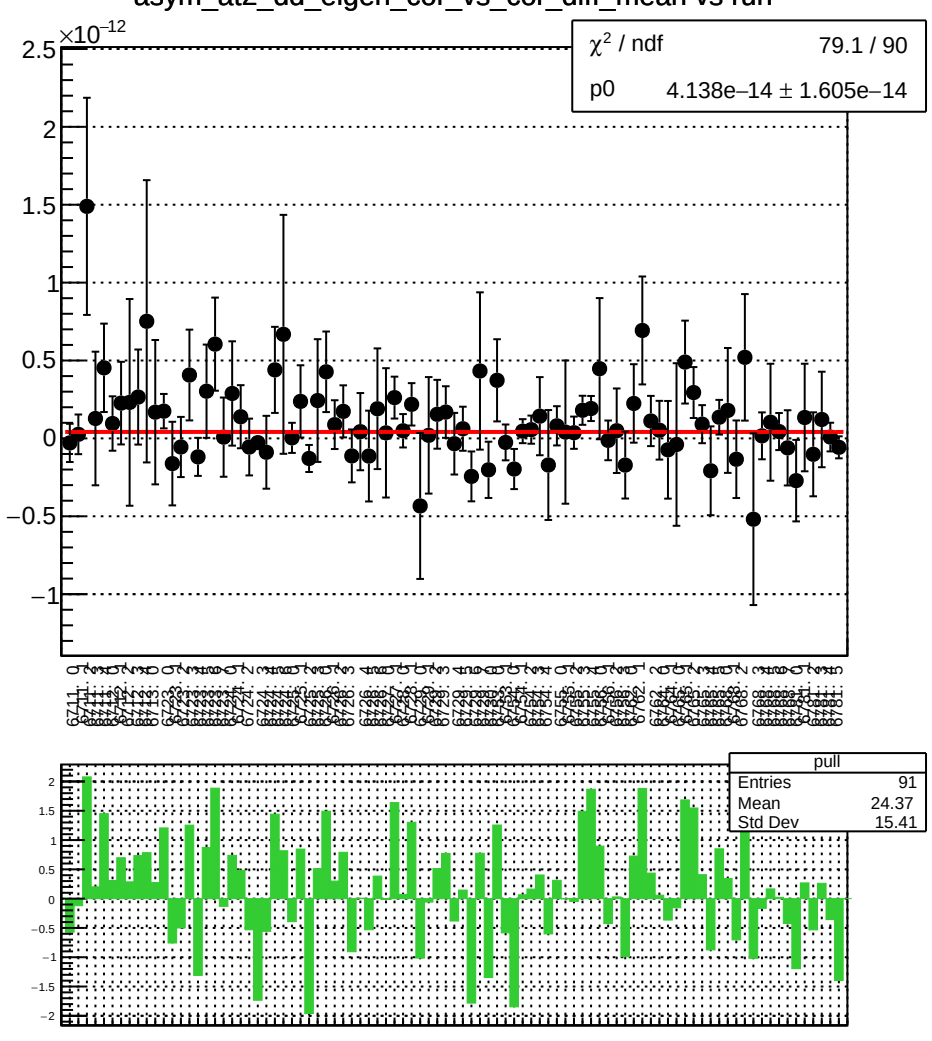

pull1D
Entries 91
Mean −0.005653
Std Dev 0.9489

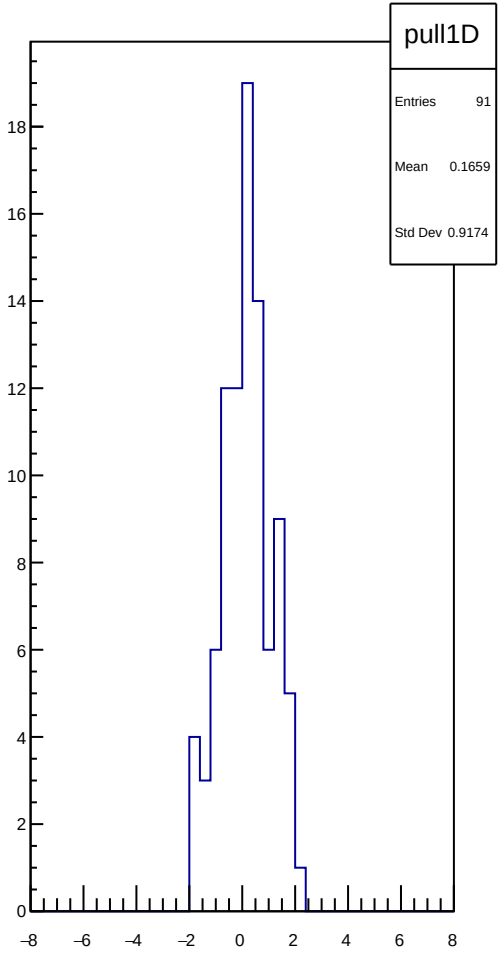

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.585e+05 / 90
p0 59.82 ± 0.04811
140
120
100
80
60
40
20

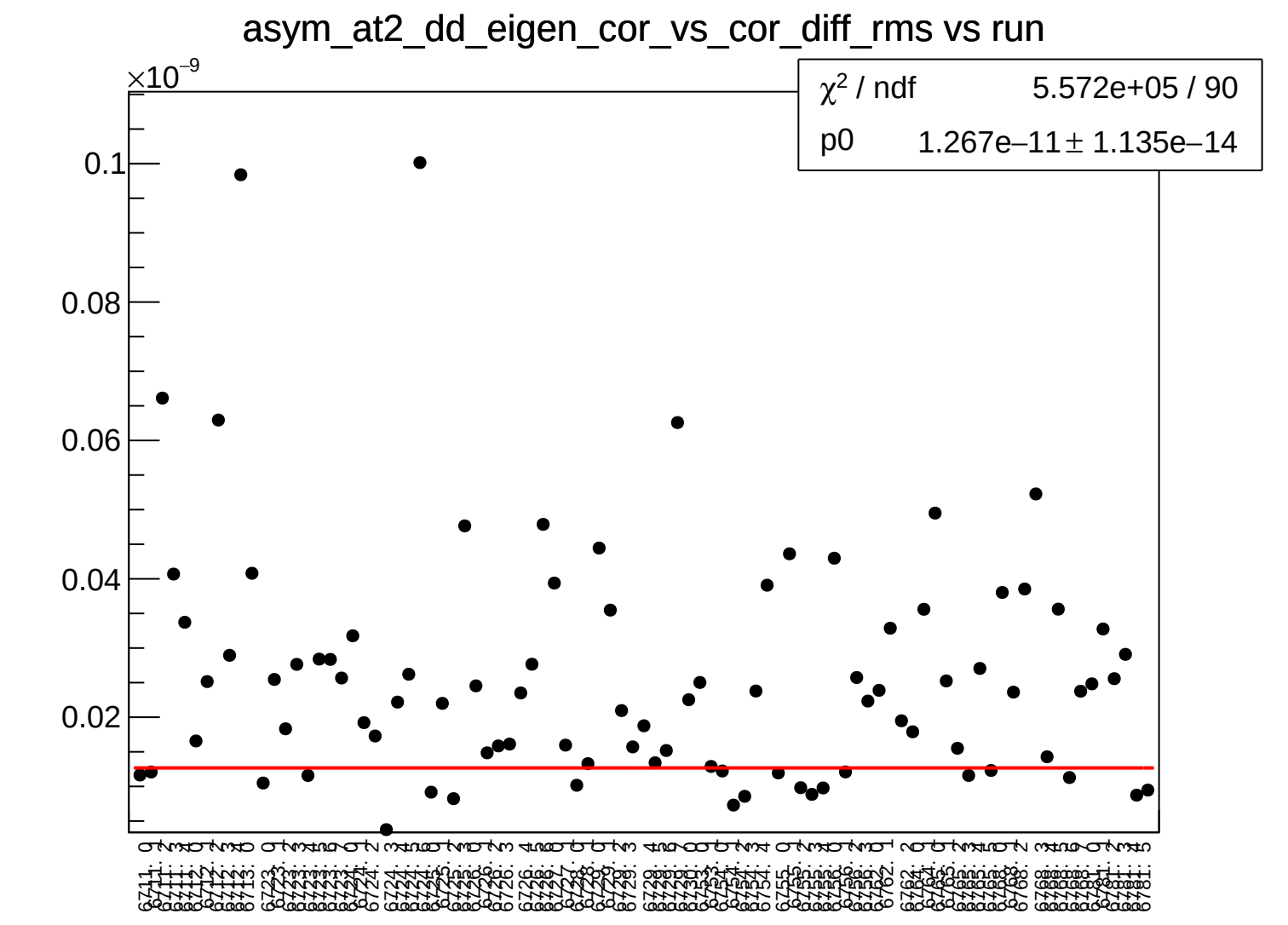

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.94 / 90
p0 −0.005871 ± 0.06804
pull
Entries 91
Mean 190.5
Std Dev 0

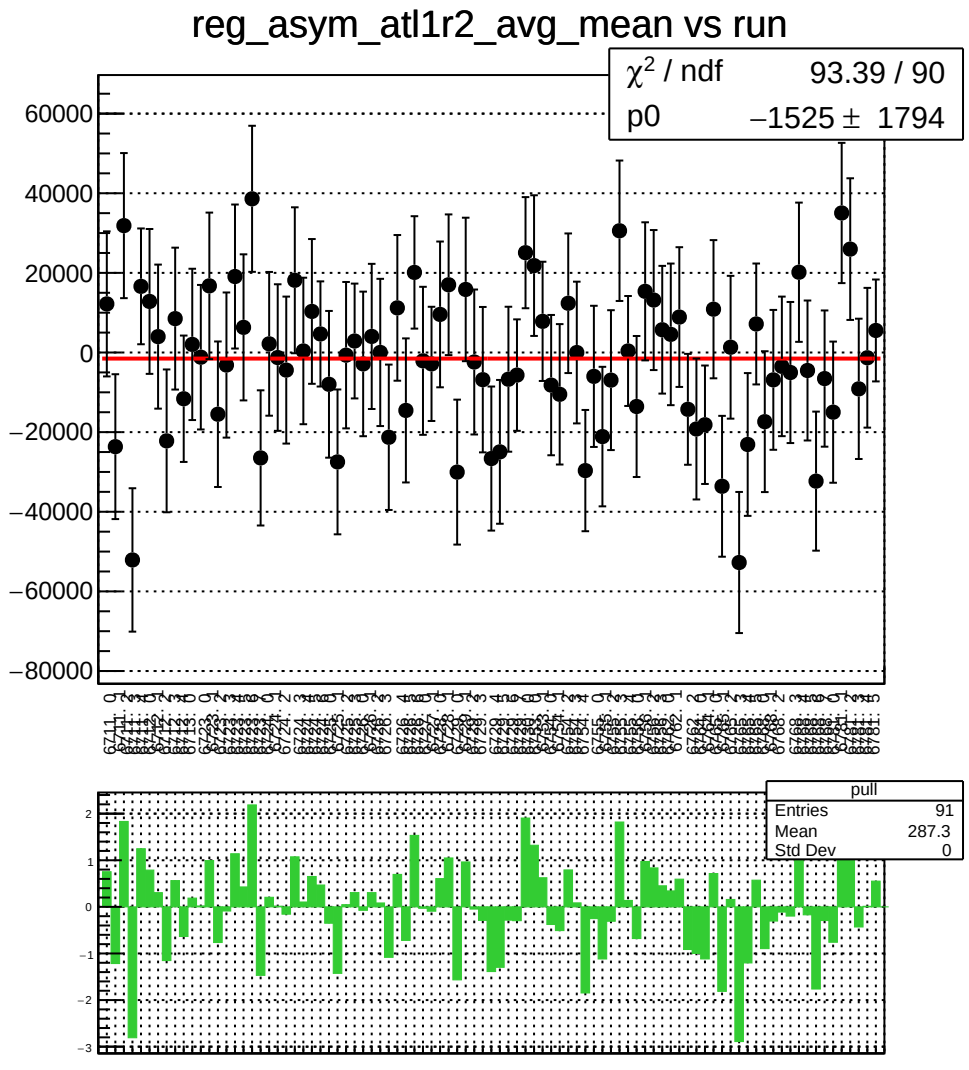

pull1D
Entries 91
Mean −0.005653
Std Dev 0.9489

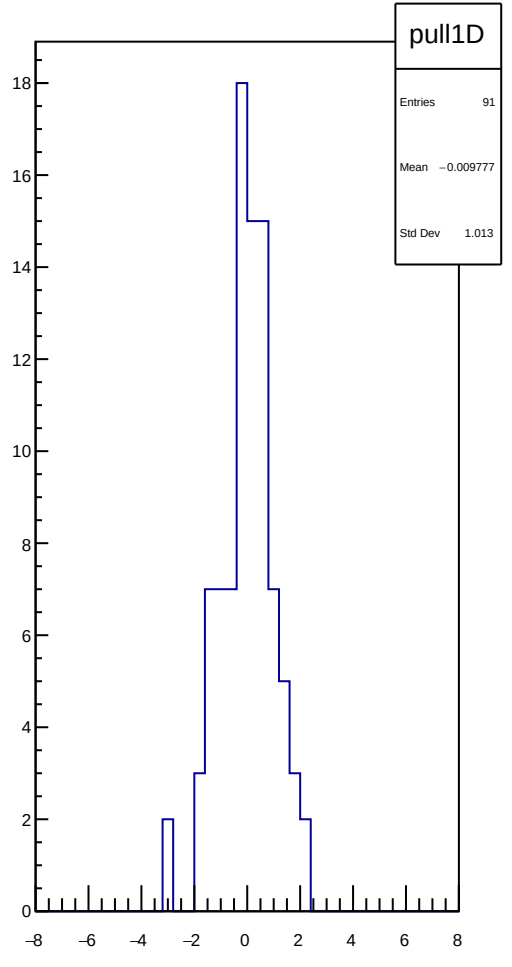

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.585e+05 / 90
p0 59.82 ± 0.04811
140
120
100
80
60
40
20

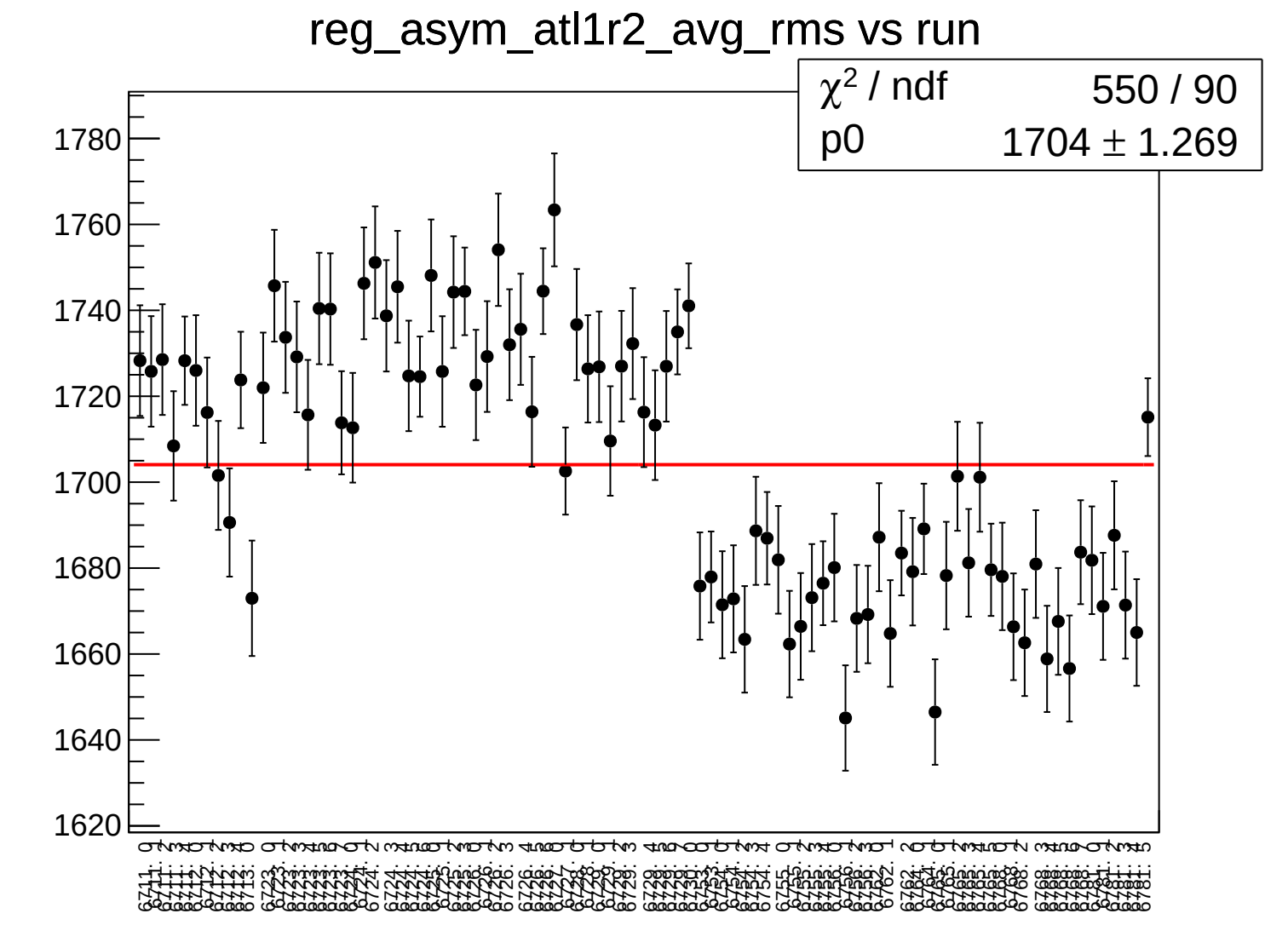

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.1 / 90
p0 4.138e−14 ± 1.605e−14
pull
Entries 91
Mean 24.37
Std Dev 15.41

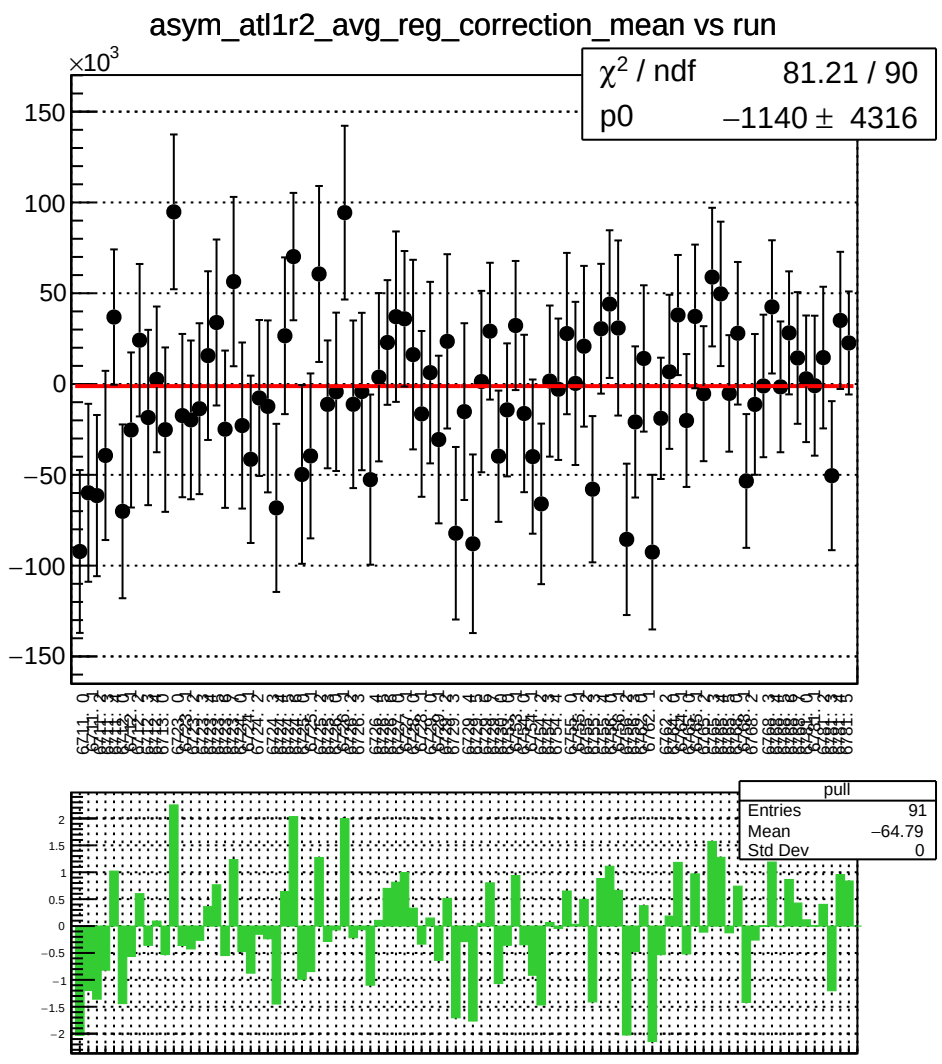

pull1D
Entries 91
Mean 0.1659
Std Dev 0.9174

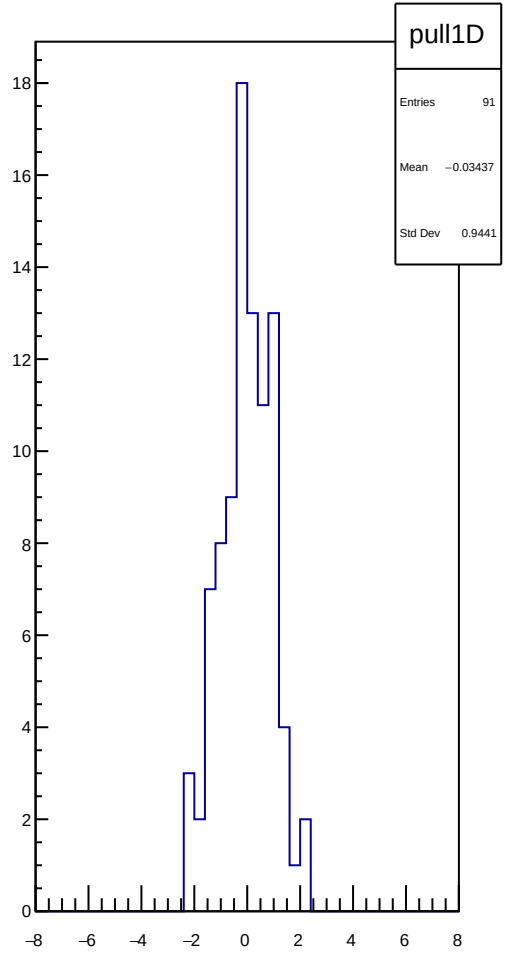

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.572e+05 / 90
p0 1.267e−11 ± 1.135e−14
0.1
0.08
0.06
0.04
0.02

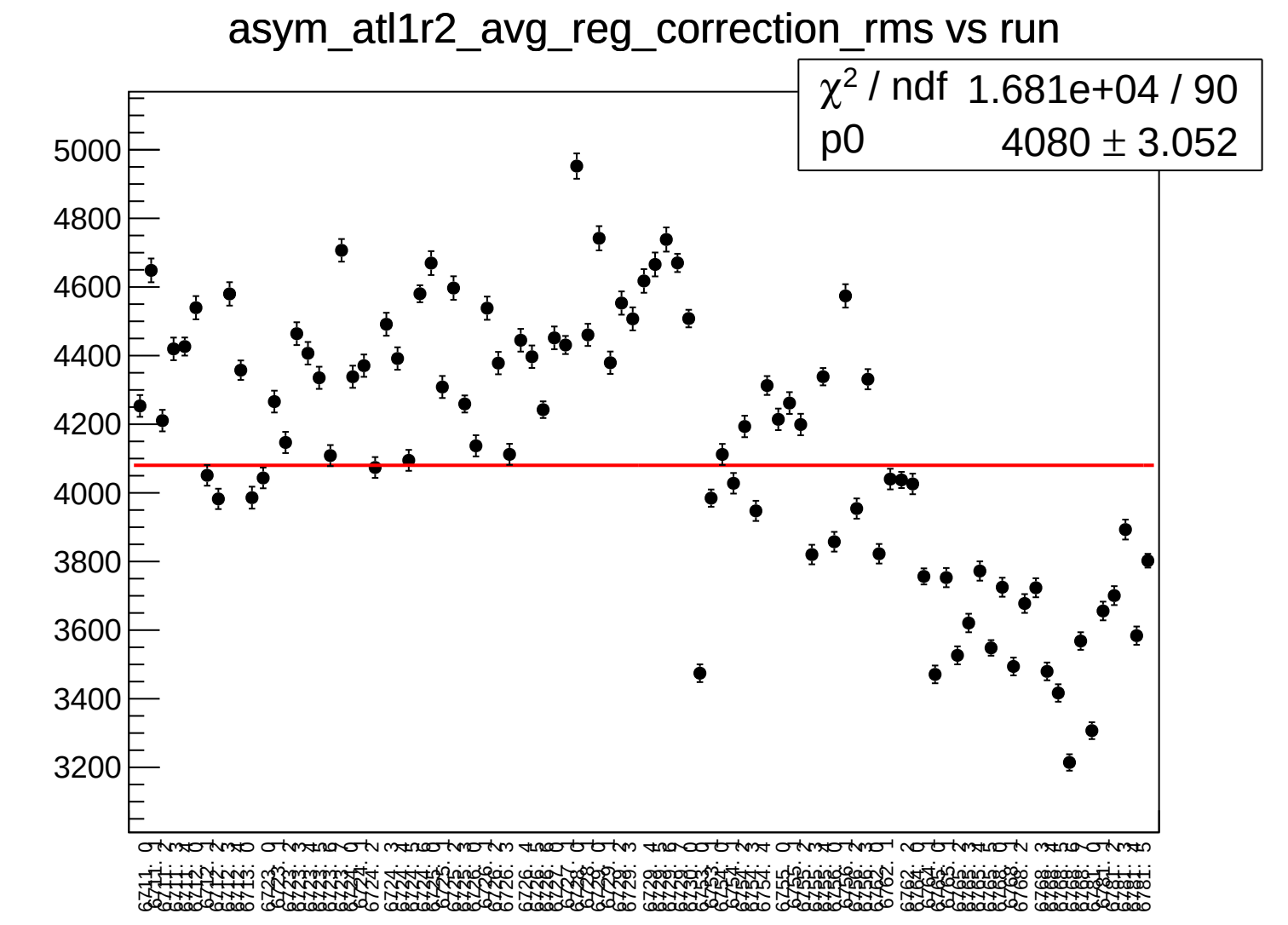

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 93.39 / 90
p0 −1525 ± 1794
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 287.3
Std Dev 0
2
1
0
−1
−2
−3

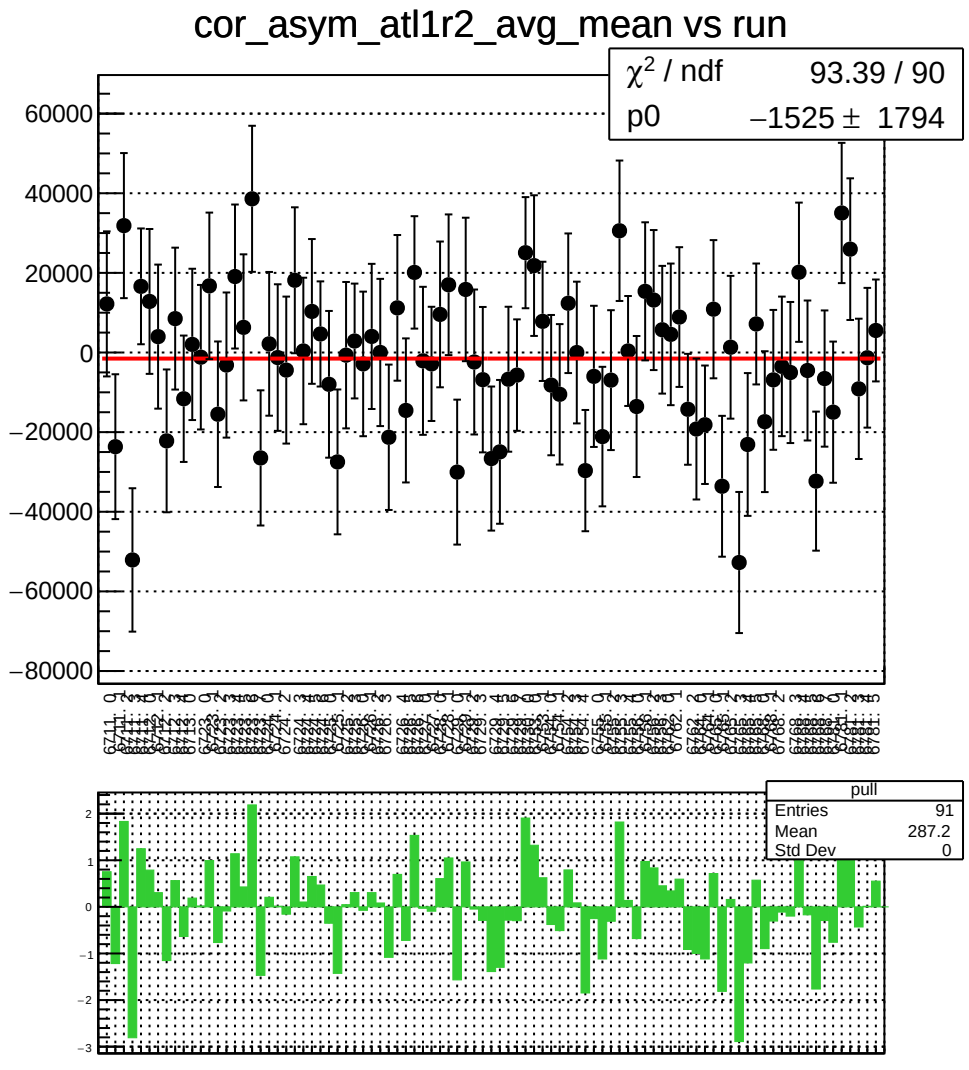

pull1D
Entries 91
Mean −0.009777
Std Dev 1.013
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

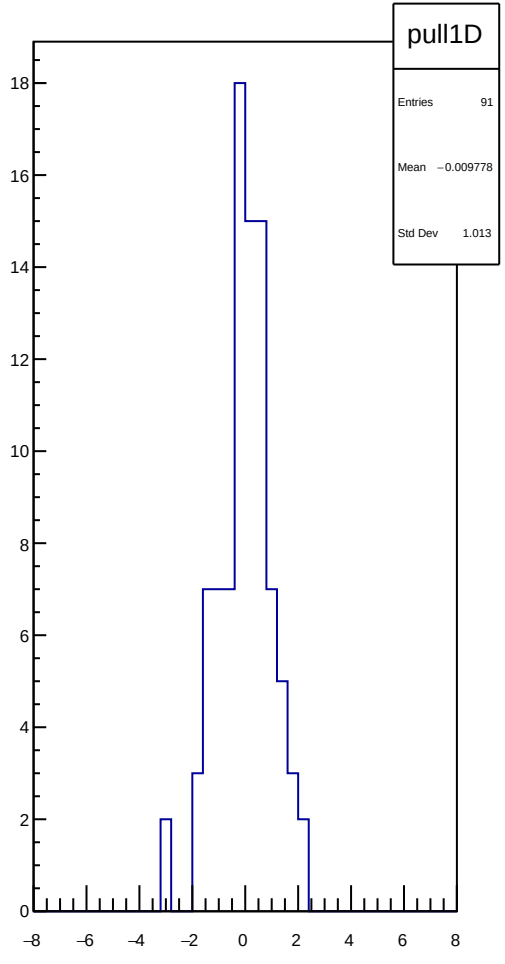

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 550 / 90
p0 1704 ± 1.269
1780
1760
1740
1720
1700
1680
1660
1640
1620

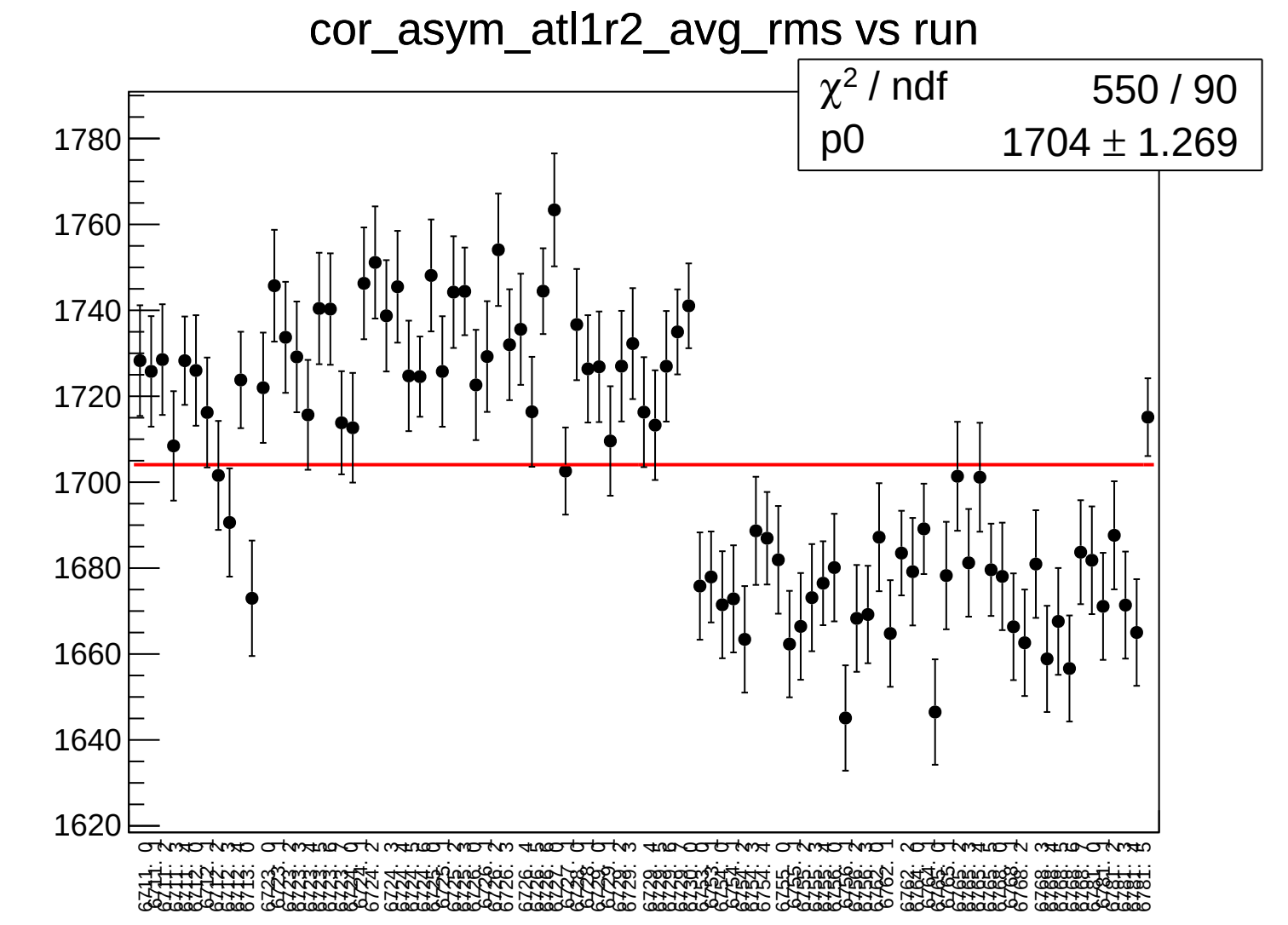

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 81.21 / 90
p0 −1140 ± 4316
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −64.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

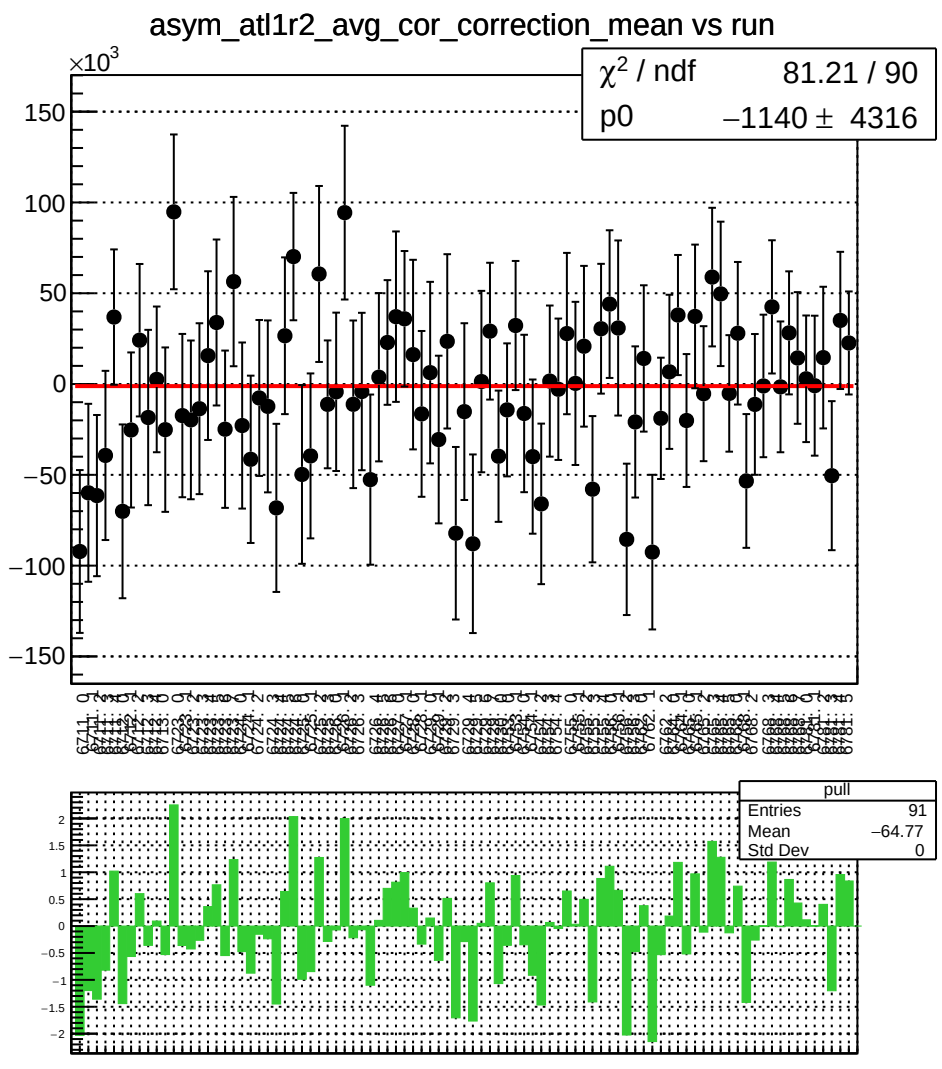

pull1D
Entries 91
Mean −0.03437
Std Dev 0.9441
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

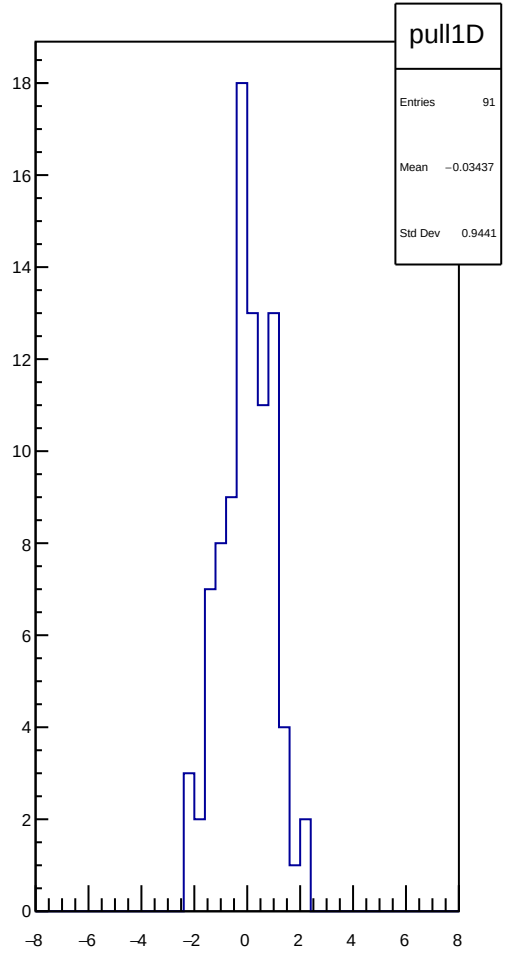

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 1.681e+04 / 90
p0 4080 ± 3.052
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

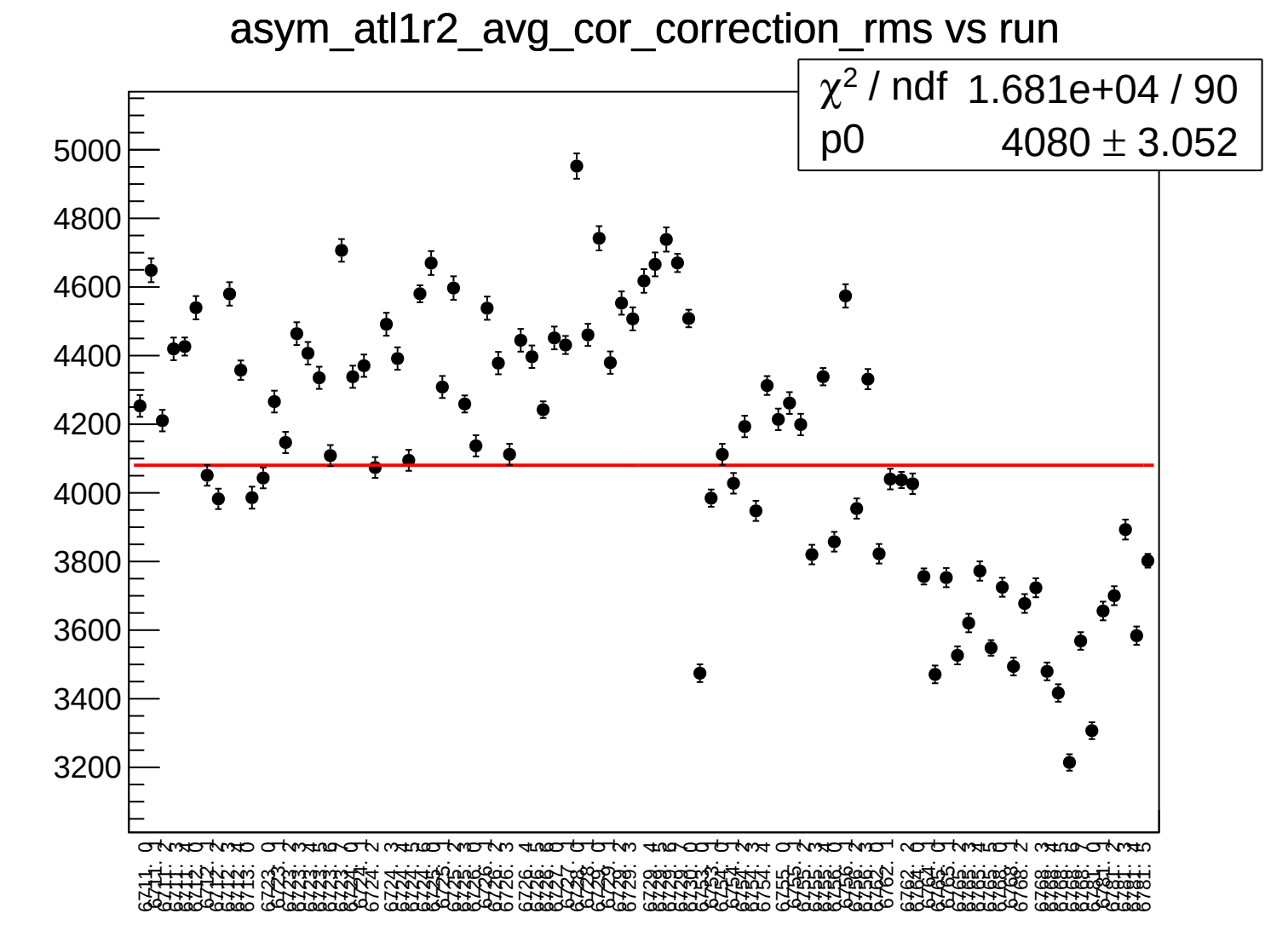

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 93.39 / 90
p0 −1525 ± 1794
pull
Entries 91
Mean 287.2
Std Dev 0

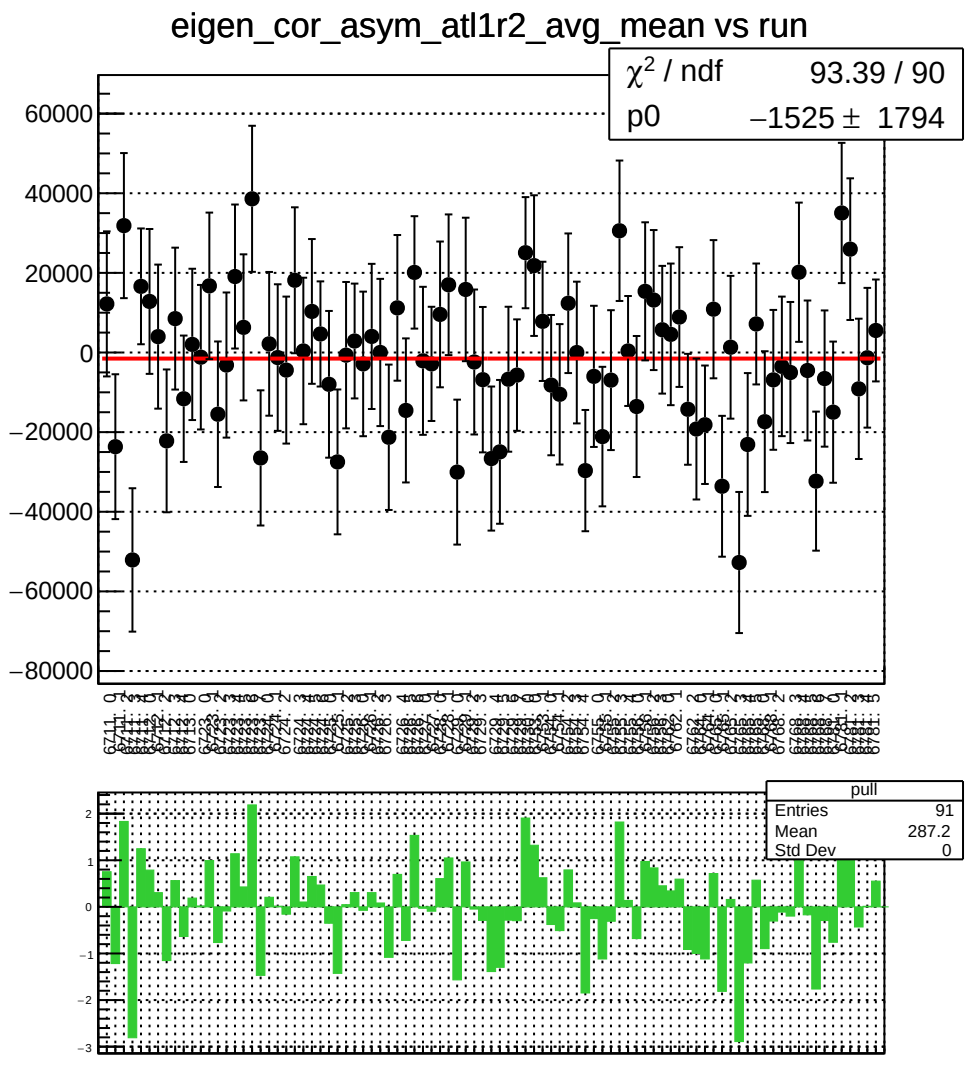

pull1D
Entries 91
Mean −0.009778
Std Dev 1.013

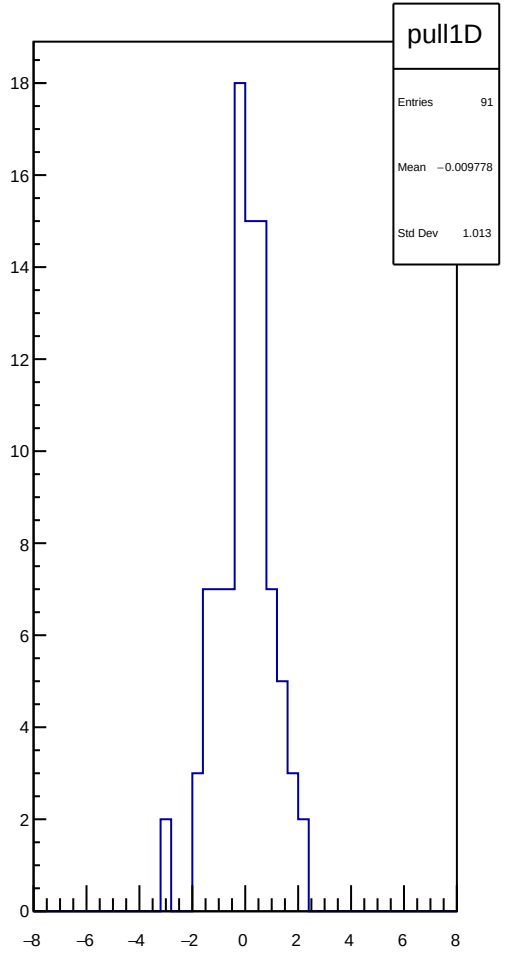

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 550 / 90
p0 1704 ± 1.269
1780
1760
1740
1720
1700
1680
1660
1640
1620

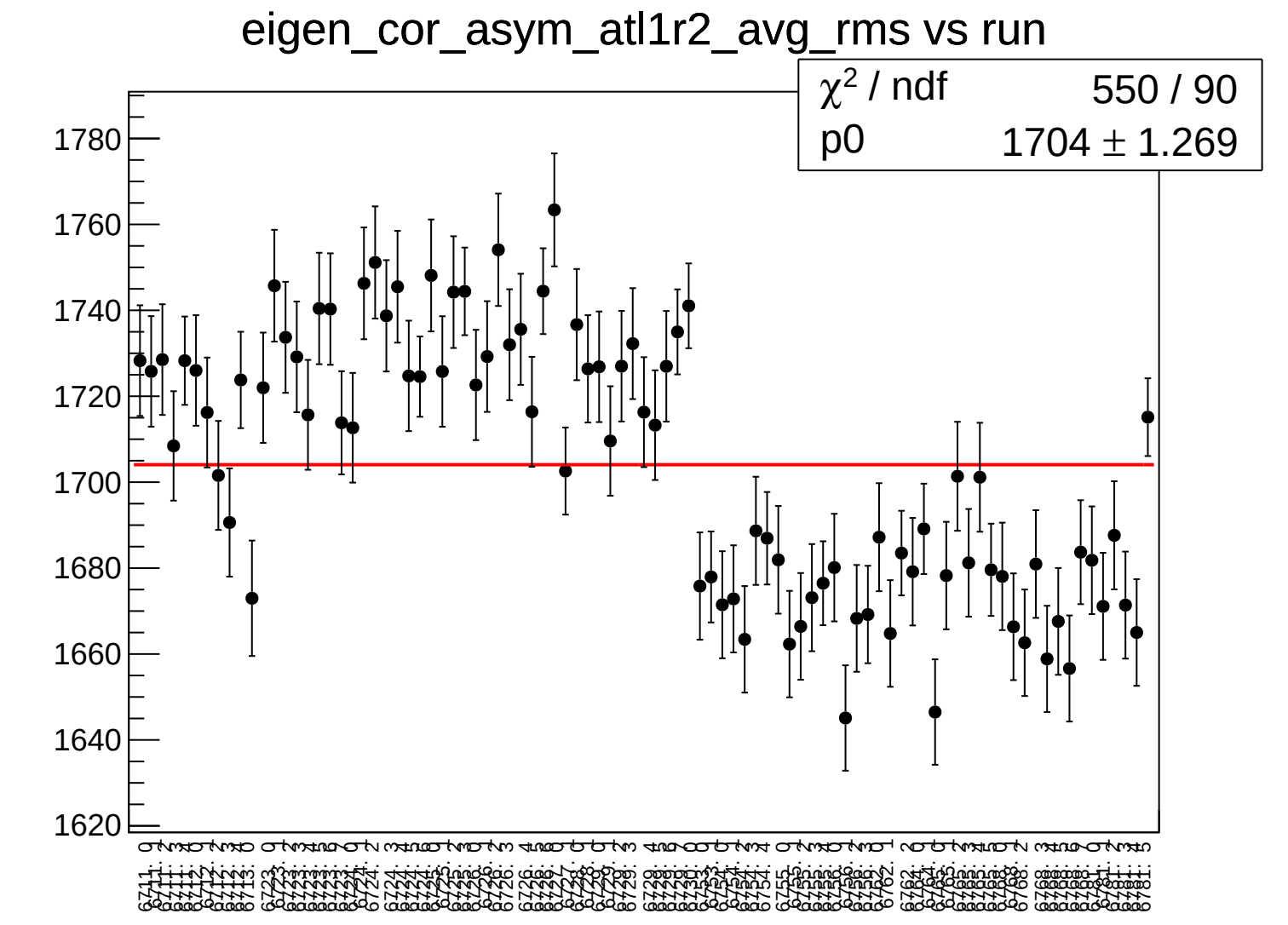

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 81.21 / 90
p0 −1140 ± 4316
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −64.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

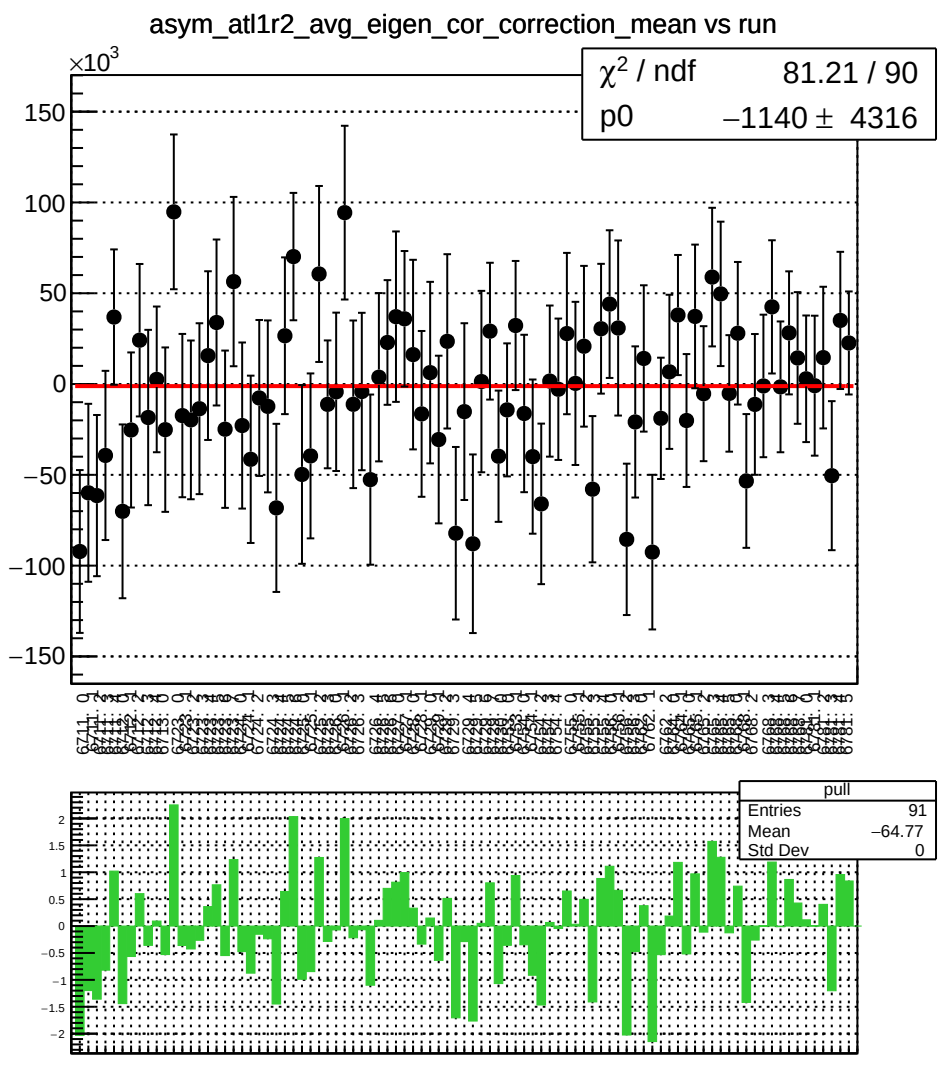

pull1D
Entries 91
Mean −0.03437
Std Dev 0.9441
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

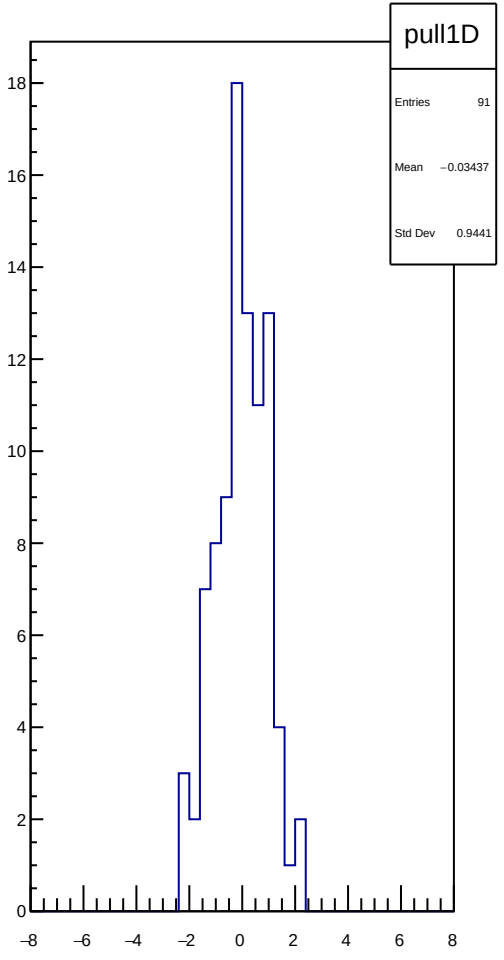

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 1.681e+04 / 90
p0 4080 ± 3.052
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

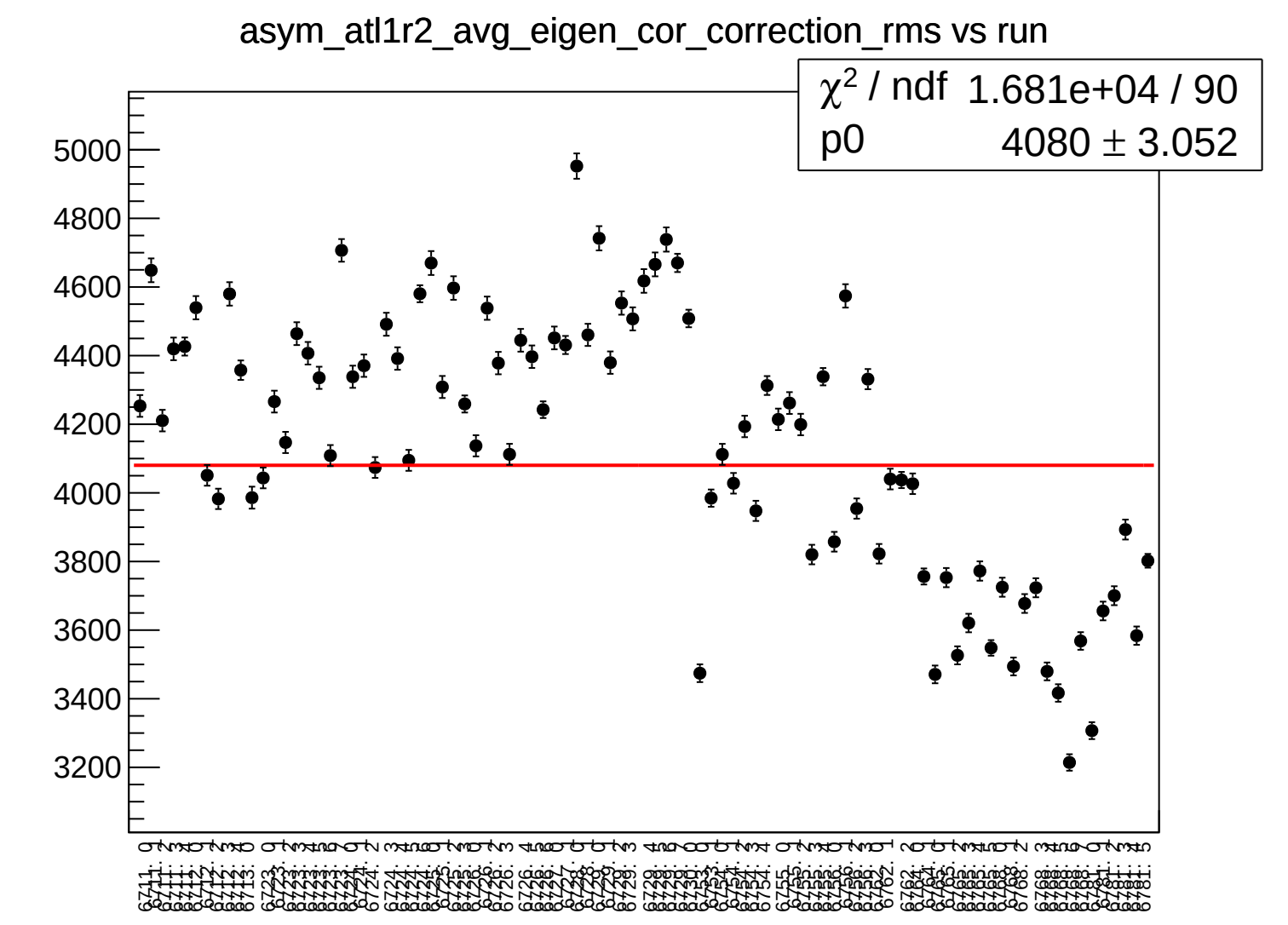

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 93.39 / 90
p0 −1525 ± 1794
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 287.2
Std Dev 0
2
1
0
−1
−2
−3

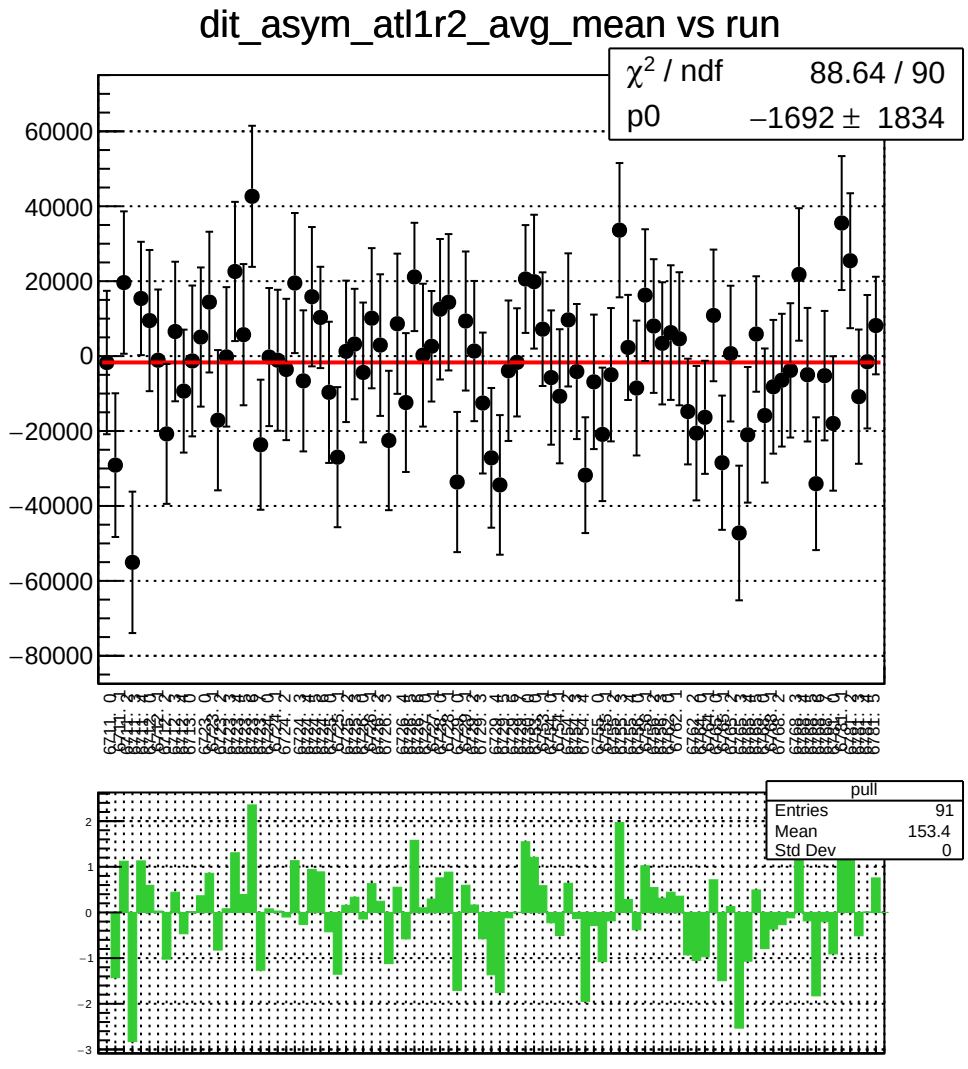

pull1D
Entries 91
Mean −0.009778
Std Dev 1.013
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

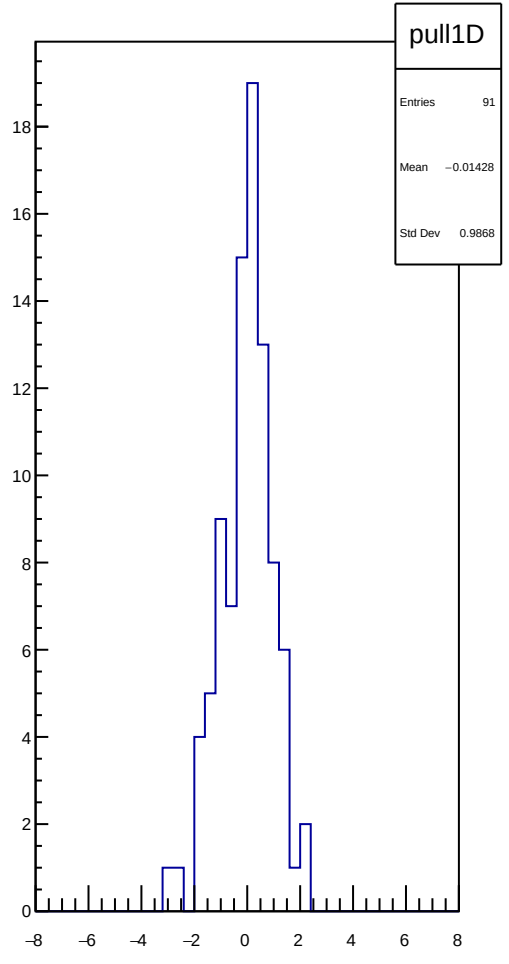

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 550 / 90
p0 1704 ± 1.269
1780
1760
1740
1720
1700
1680
1660
1640
1620

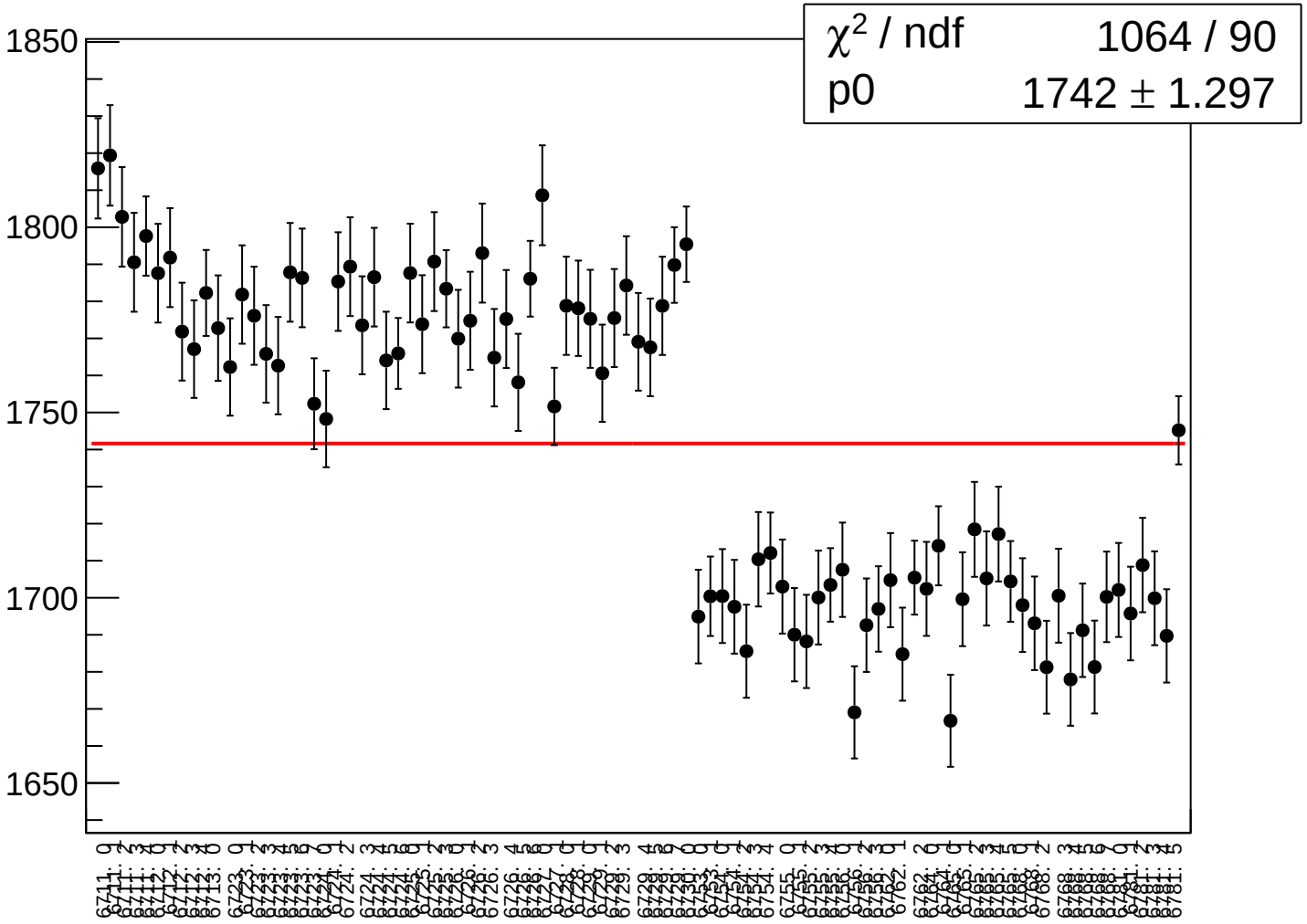

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.21 / 90
p0 −1140 ± 4316
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −64.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

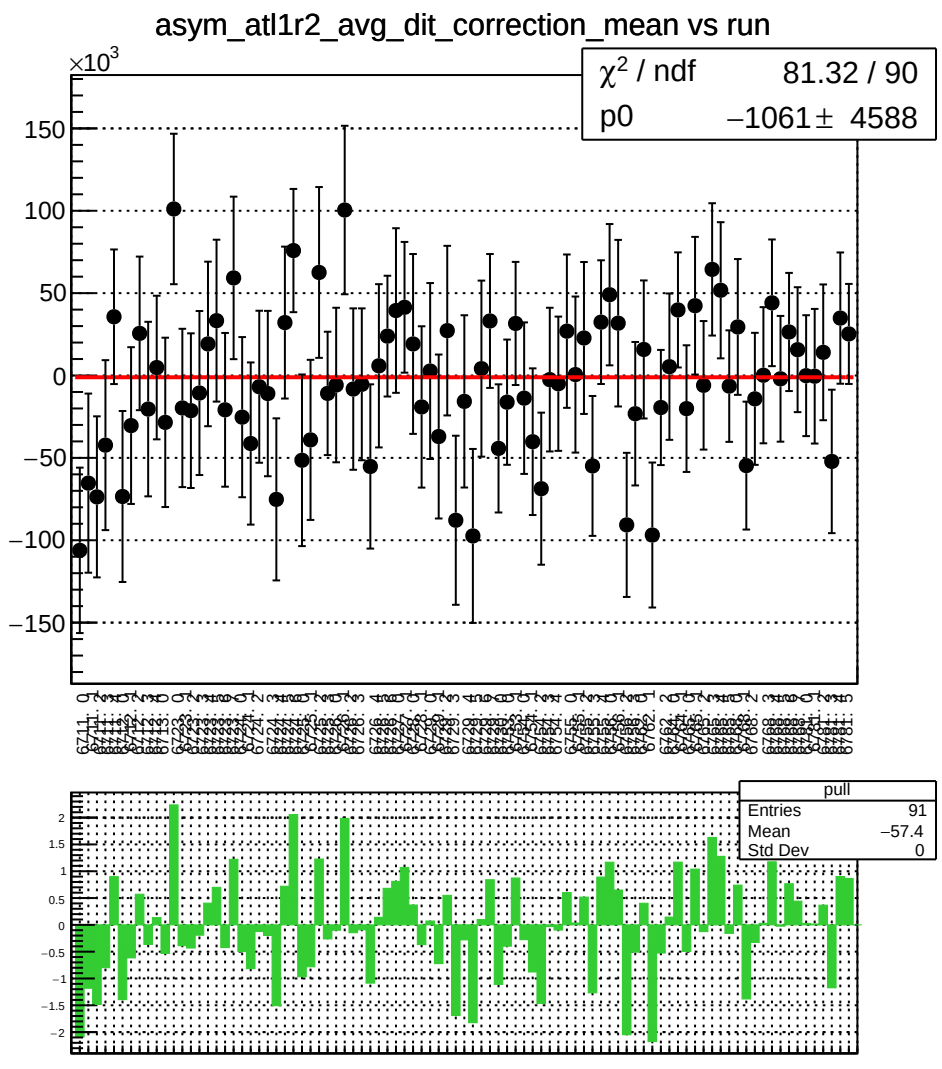

pull1D
Entries 91
Mean −0.03437
Std Dev 0.9441
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

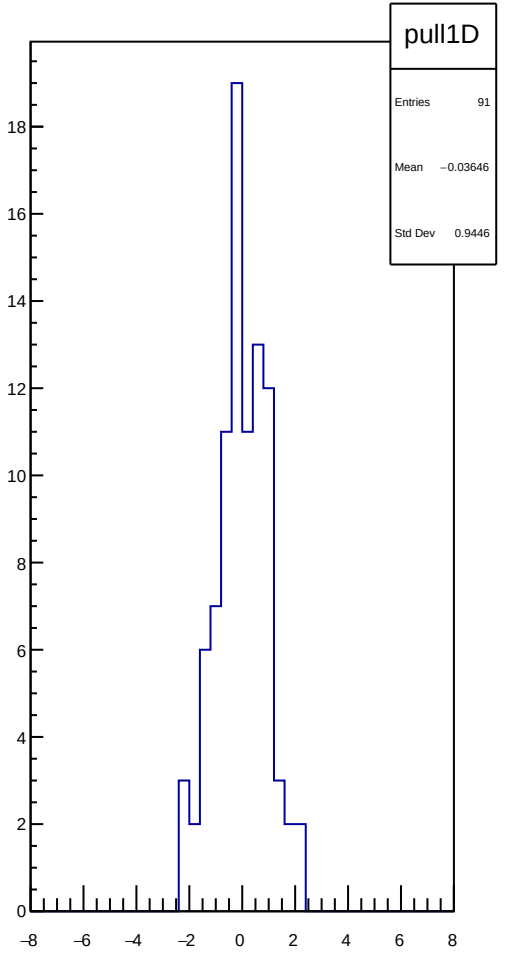

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 1.681e+04 / 90
p0 4080 ± 3.052
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

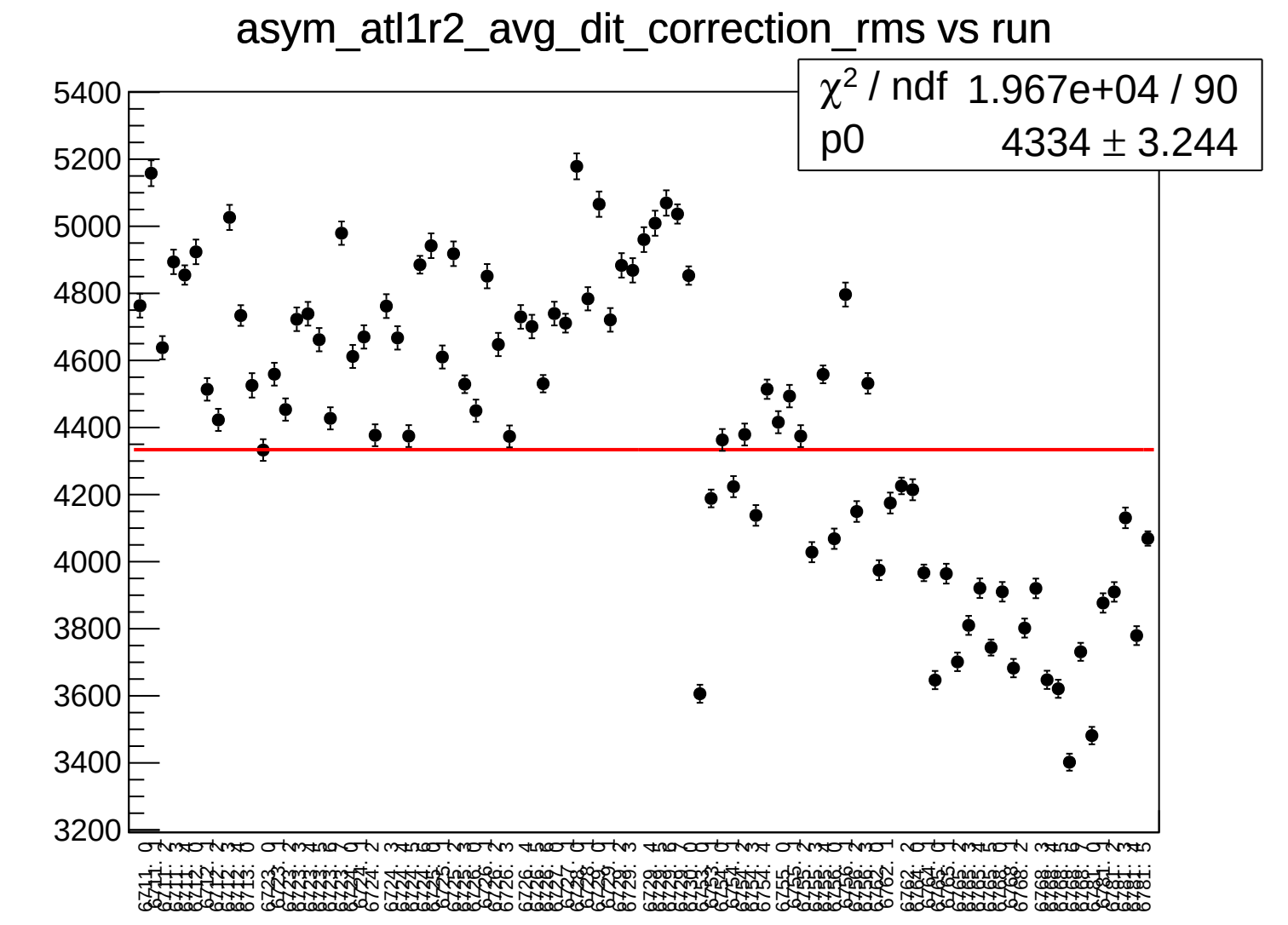

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 88.64 / 90
p0 −1692 ± 1834
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 153.4
Std Dev 0
2
1
0
−1
−2
−3

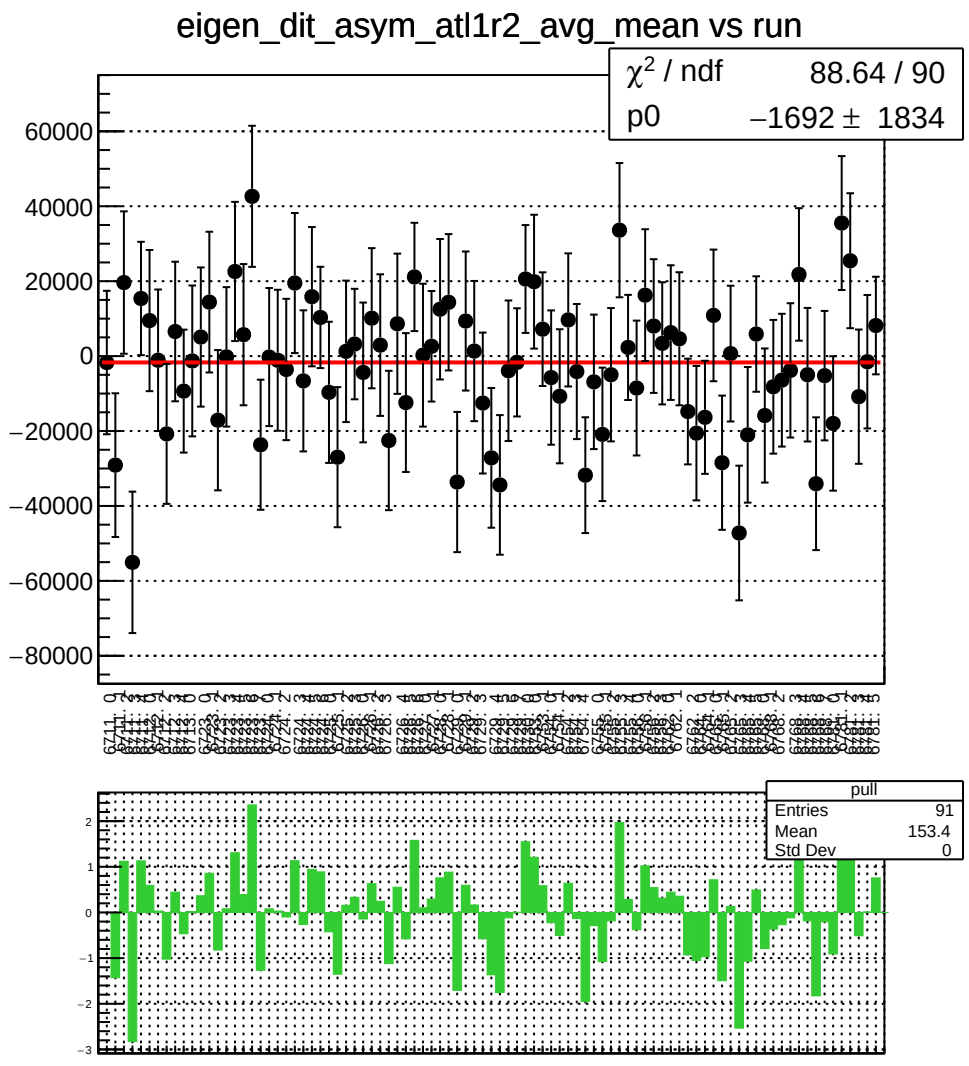

pull1D
Entries 91
Mean −0.01428
Std Dev 0.9868
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

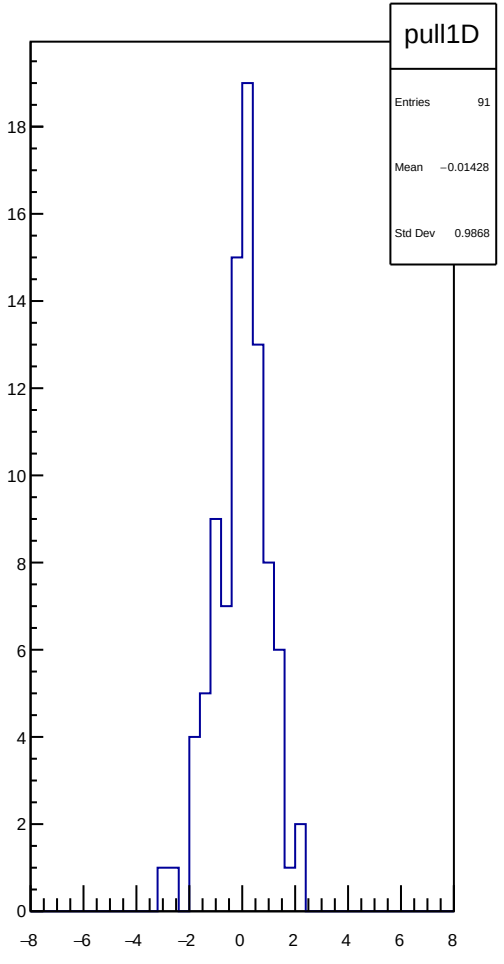

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 1064 / 90
p0 1742 ± 1.297
1850
1800
1750
1700
1650

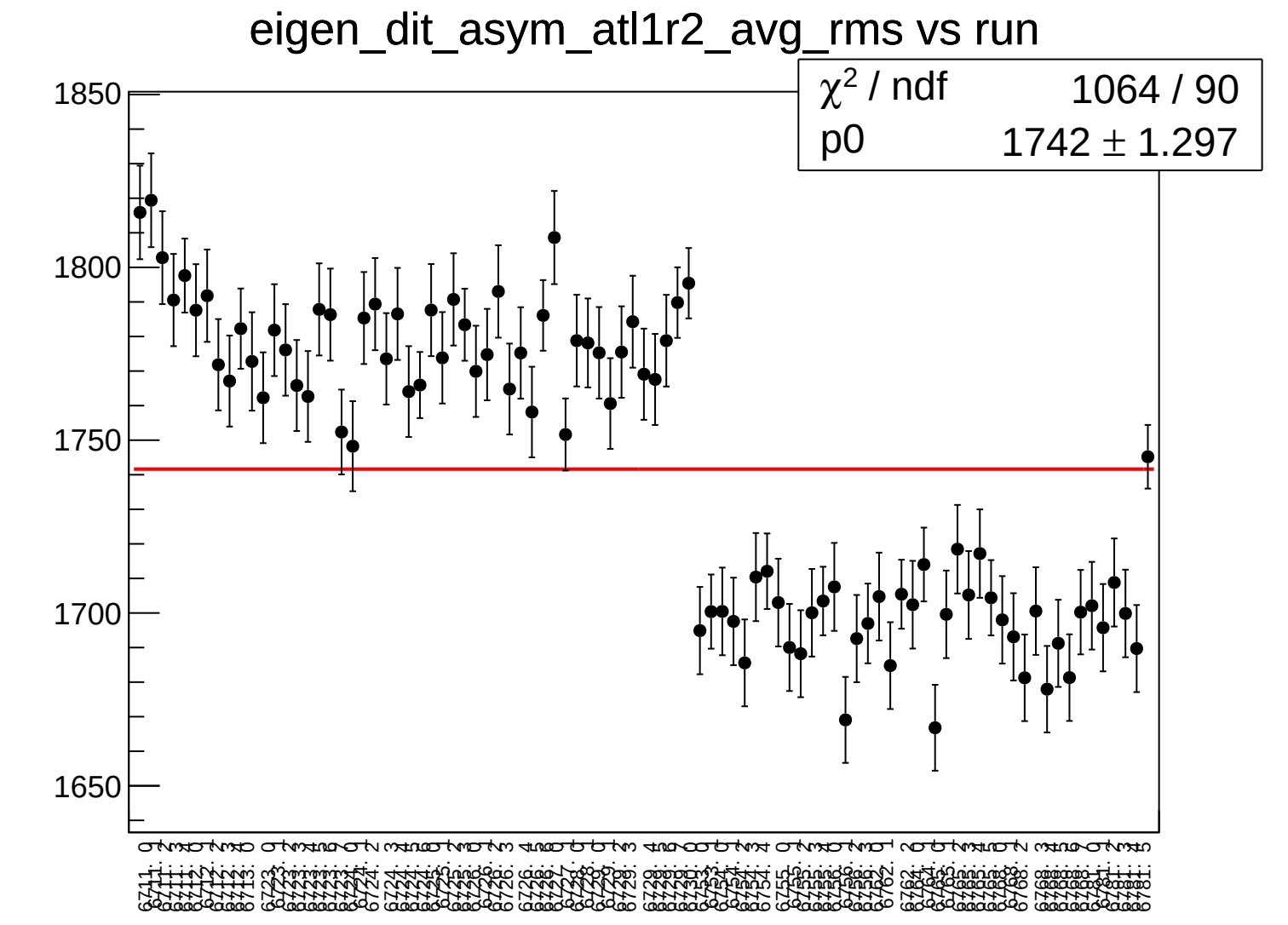

asym_atl1r2_avg_dit_correction_mean vs run
χ² / ndf 81.32 / 90
p0 −1061 ± 4588
×10³
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −57.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

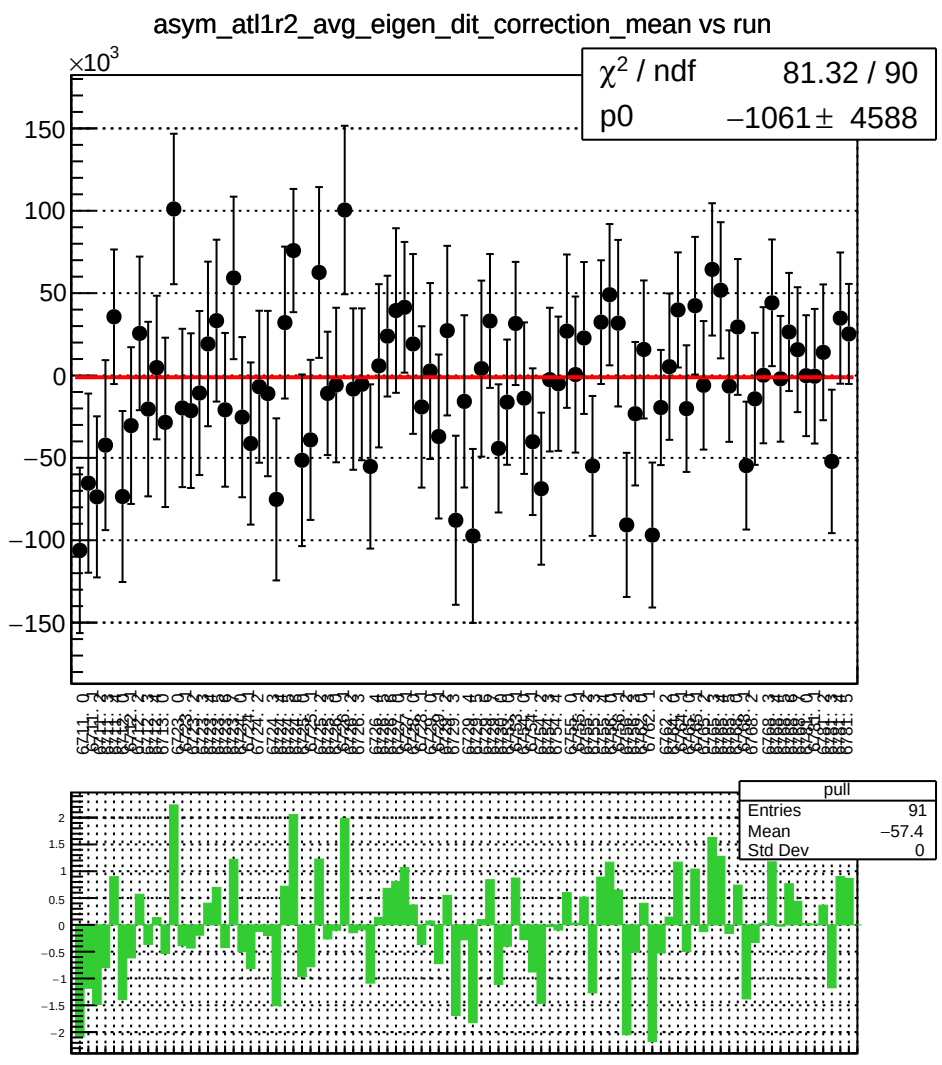

pull1D
Entries 91
Mean −0.03646
Std Dev 0.9446
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

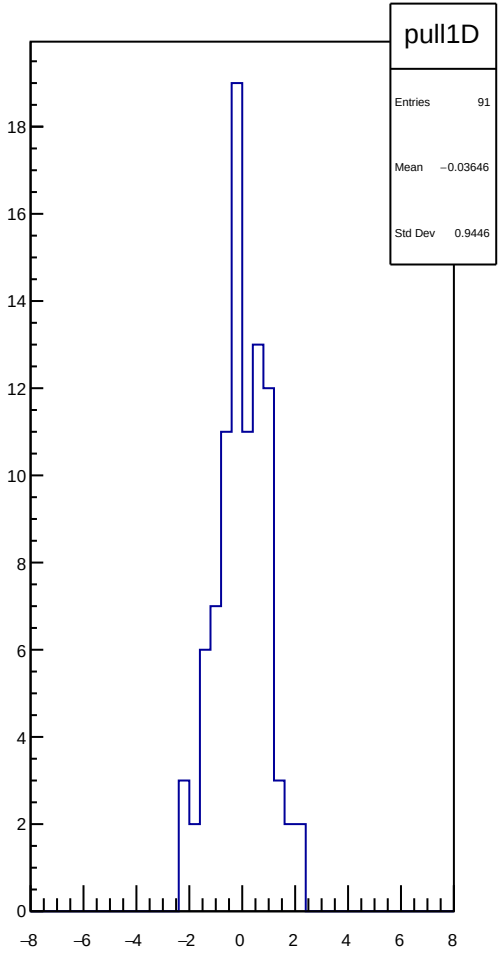

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 1.967e+04 / 90
p0 4334 ± 3.244
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200


eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 88.64 / 90
p0 −1692 ± 1834
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean 153.4
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean −0.01428
Std Dev 0.9868
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 1064 / 90
p0 1742 ± 1.297
1850
1800
1750
1700
1650


asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.32 / 90
p0 −1061 ± 4588
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −57.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 91
Mean −0.03646
Std Dev 0.9446
18
16
14
12
10
8
6
4
2
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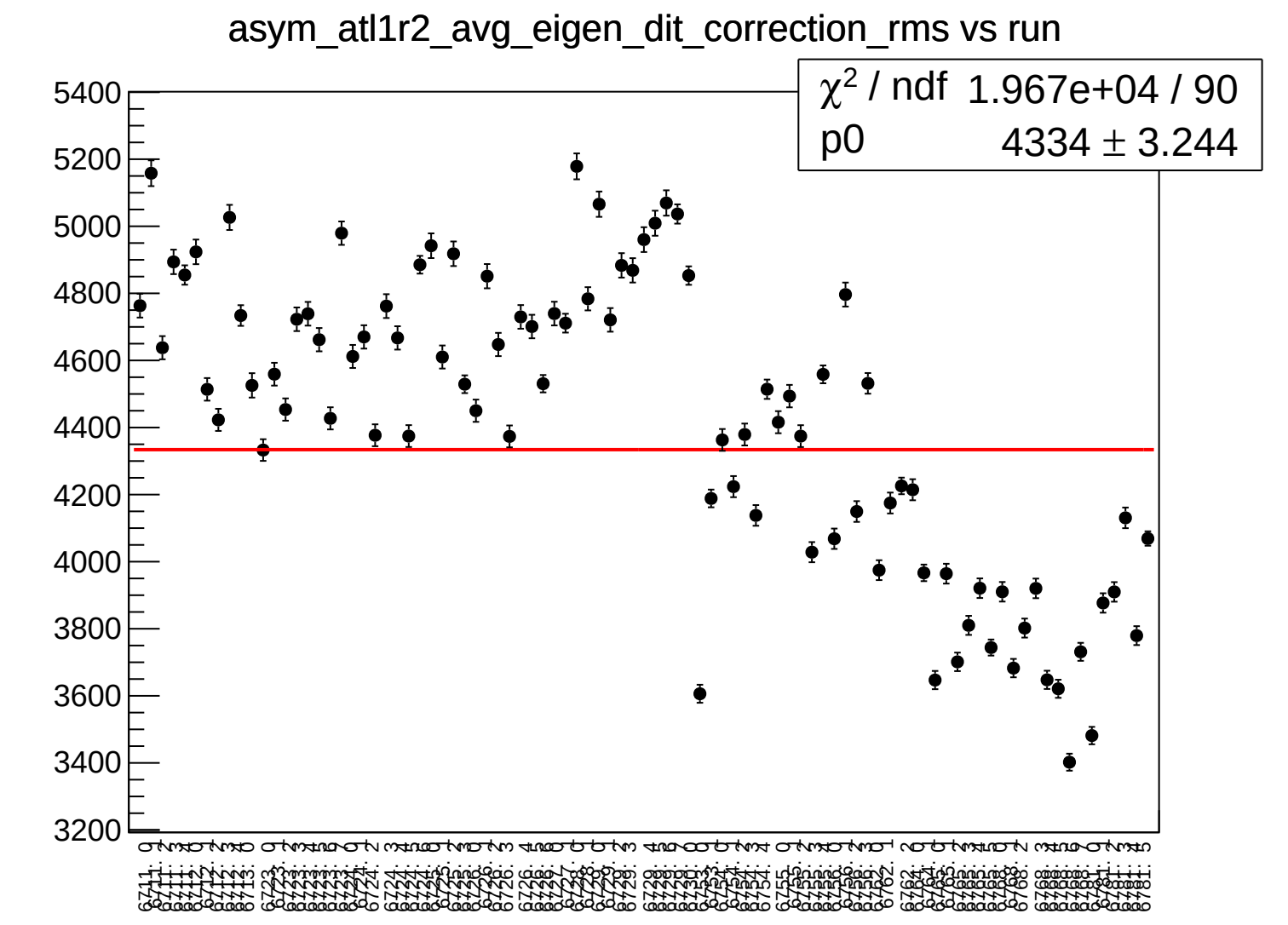
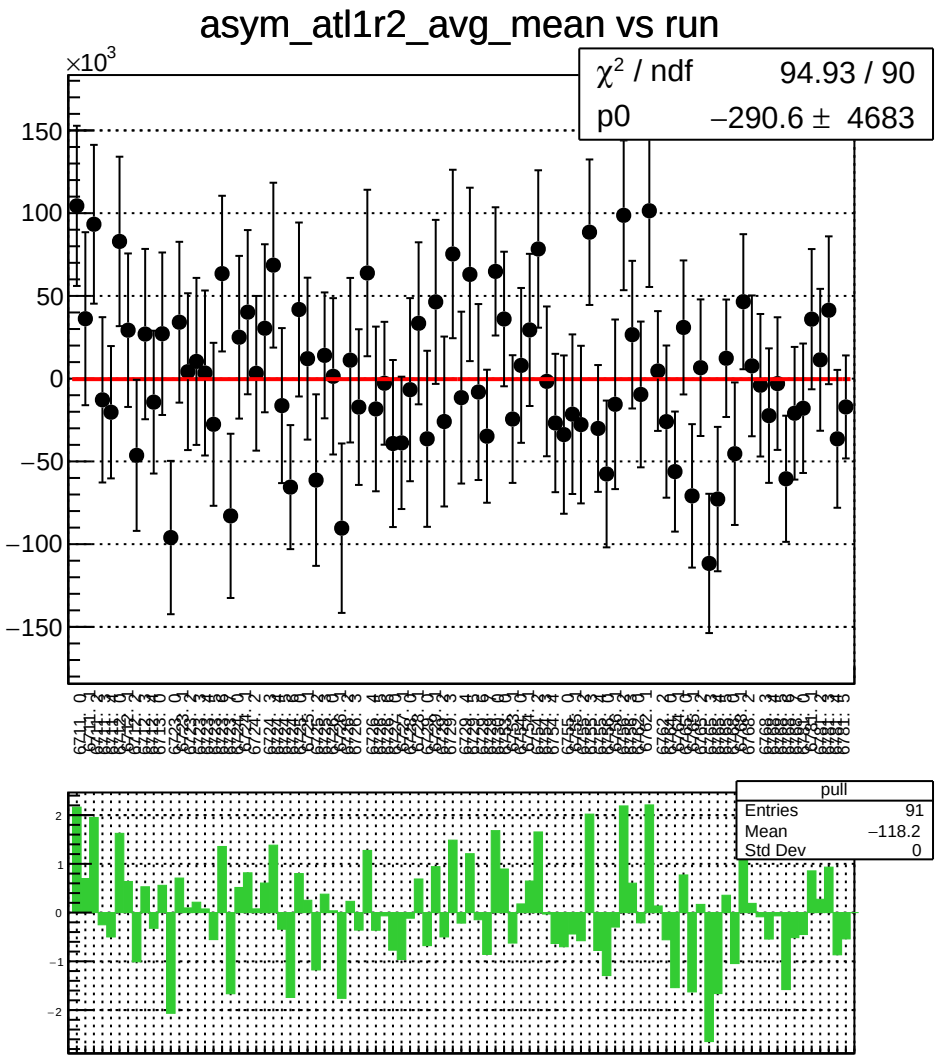
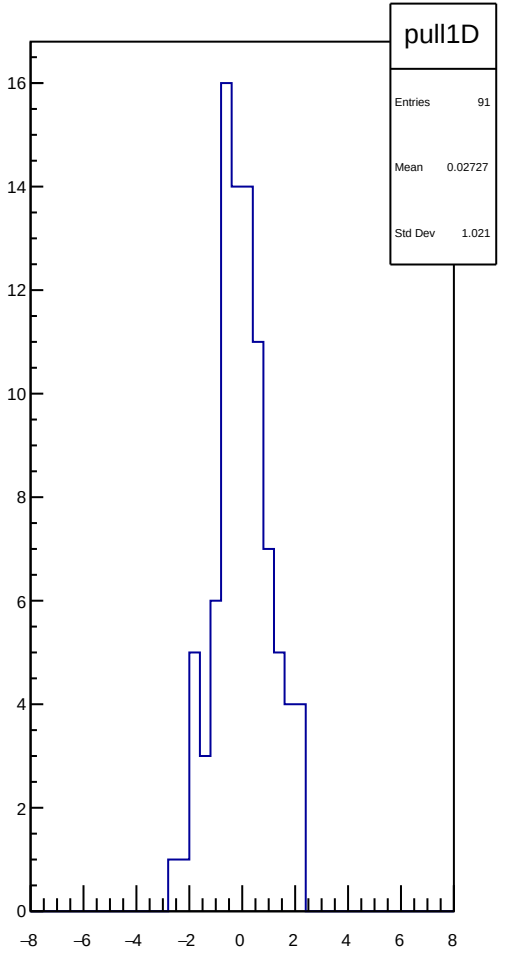
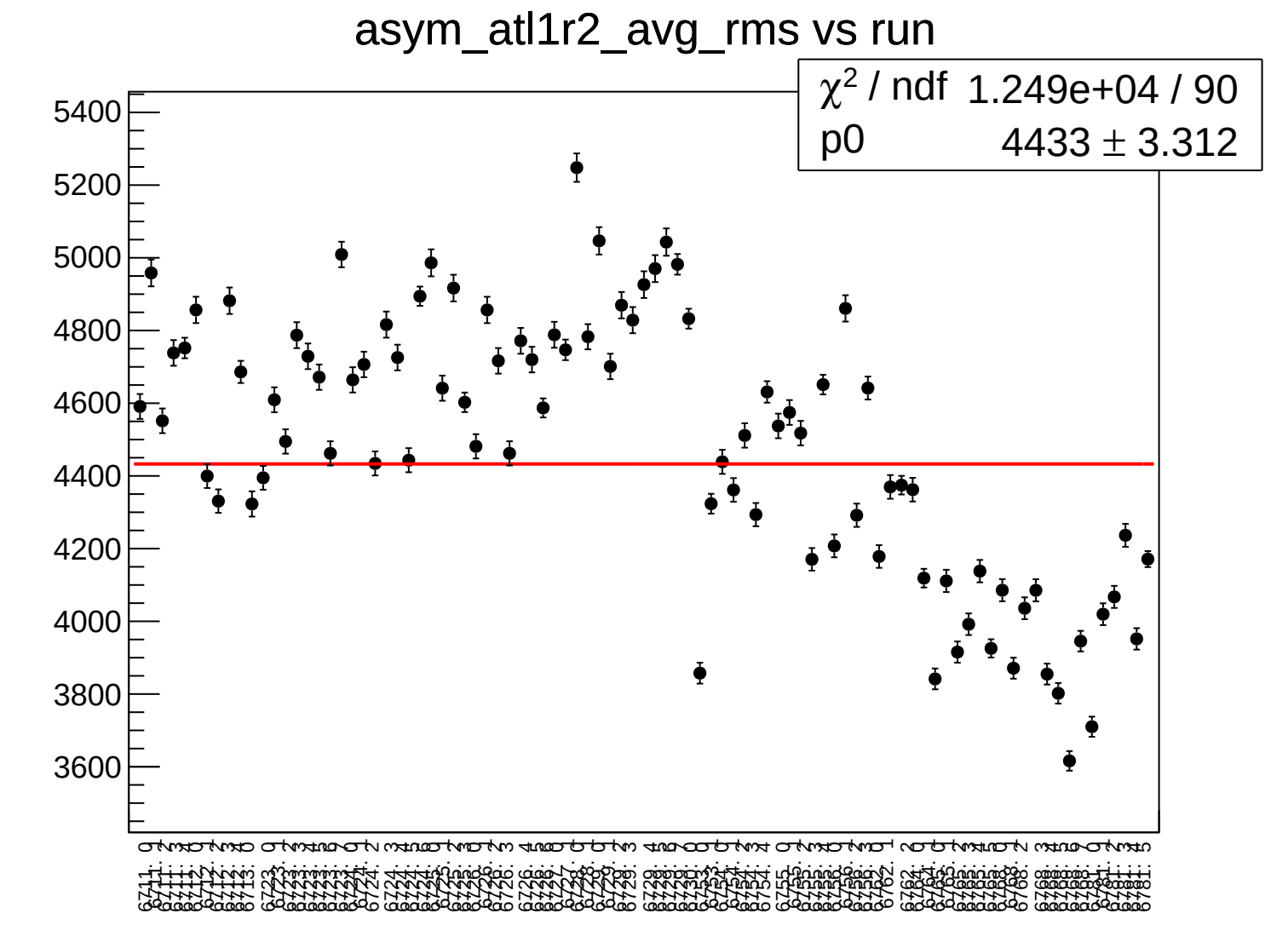
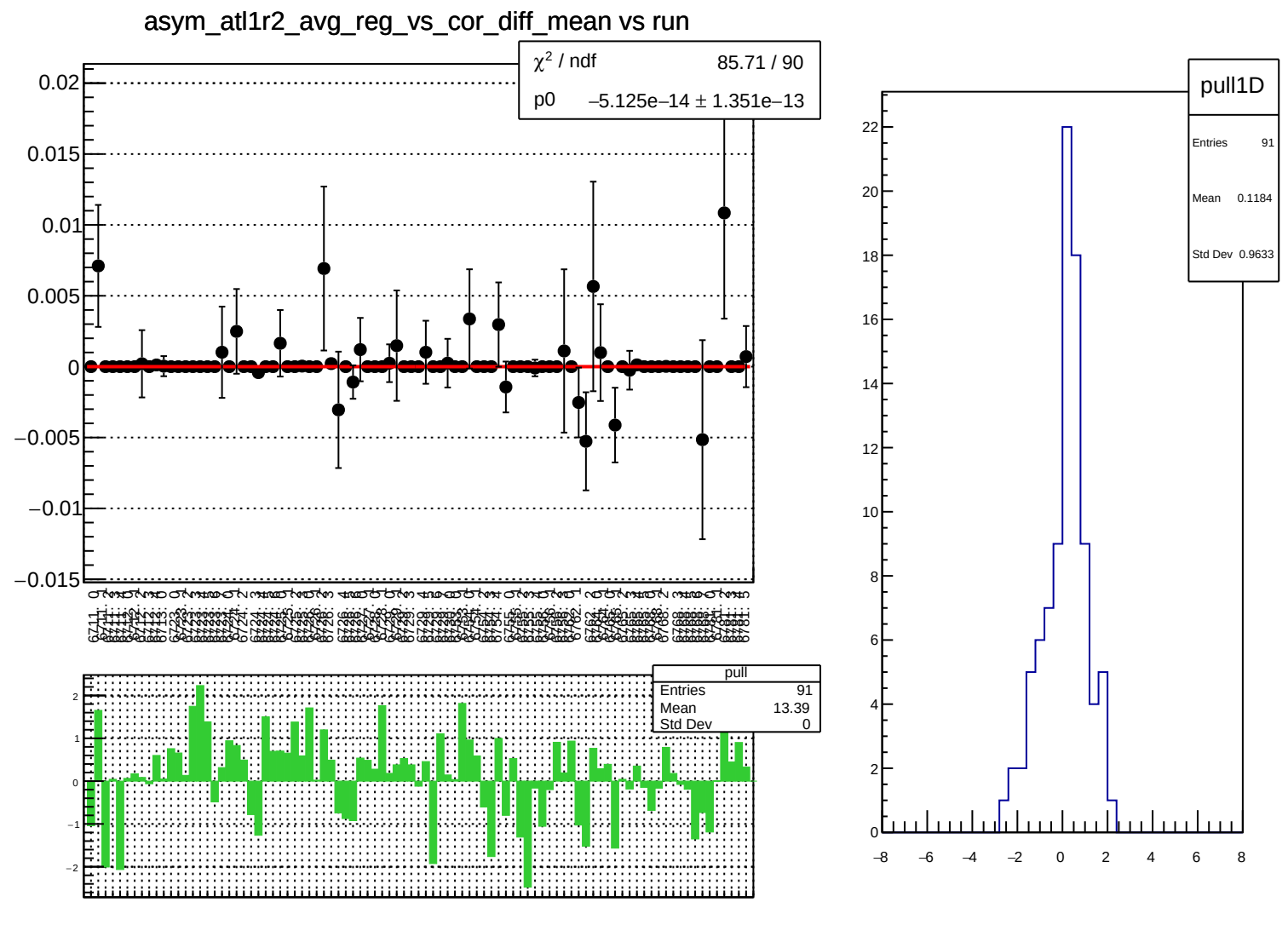
−8
−6
−4
−2
0
2
4
6
8

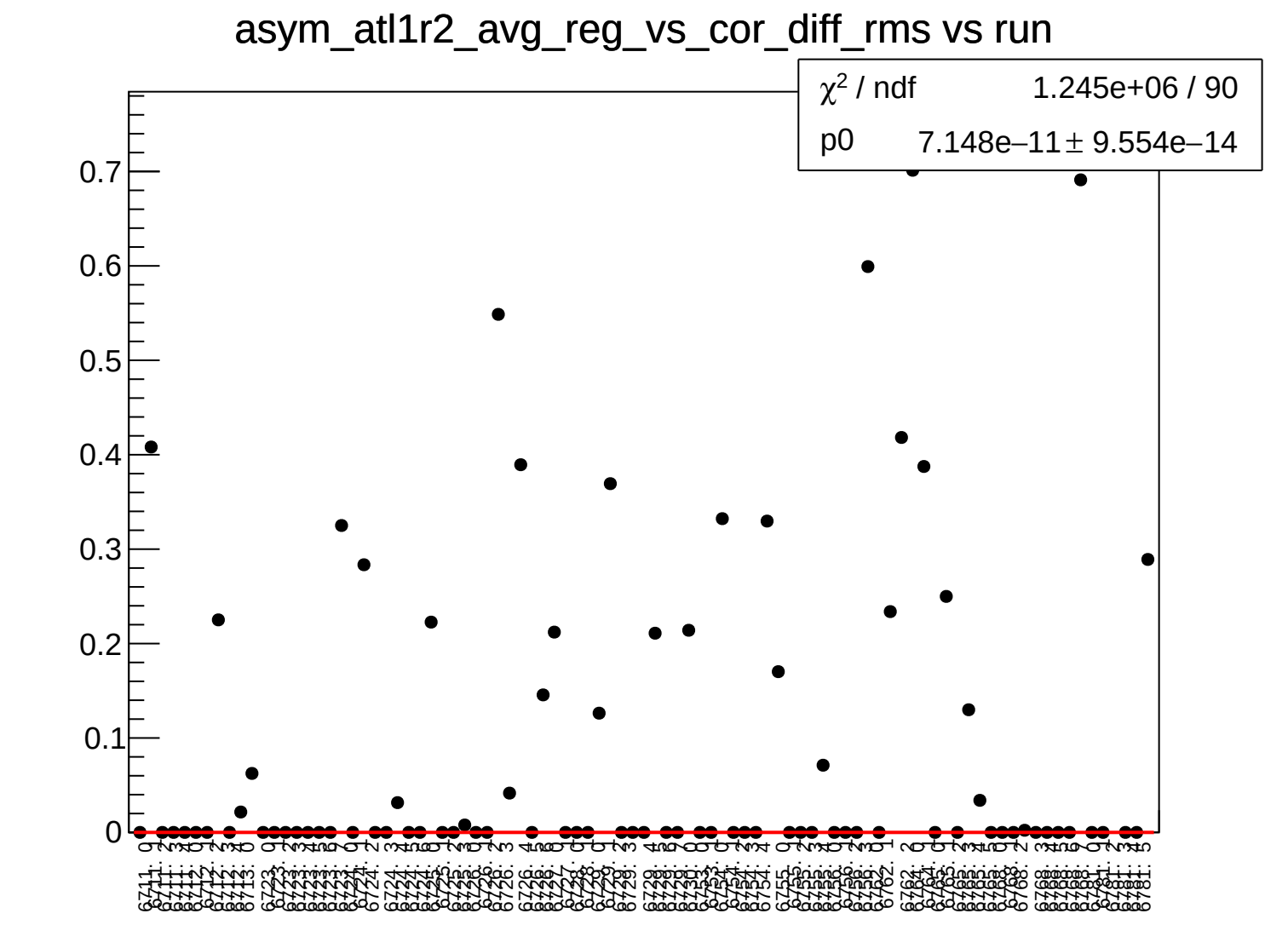

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.967e+04 / 90
p0 4334 ± 3.244
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

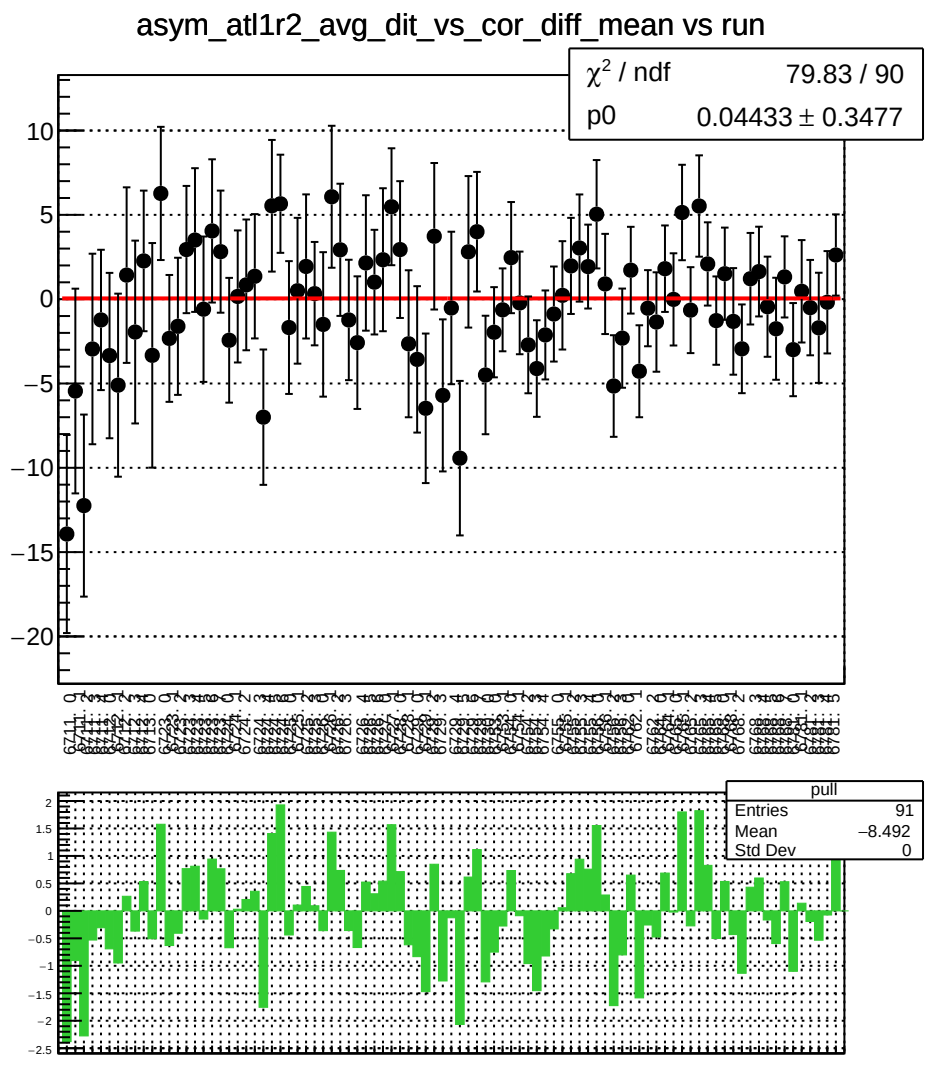

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 94.93 / 90
p0 −290.6 ± 4683
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −118.2
Std Dev 0
2
1
0
−1
−2

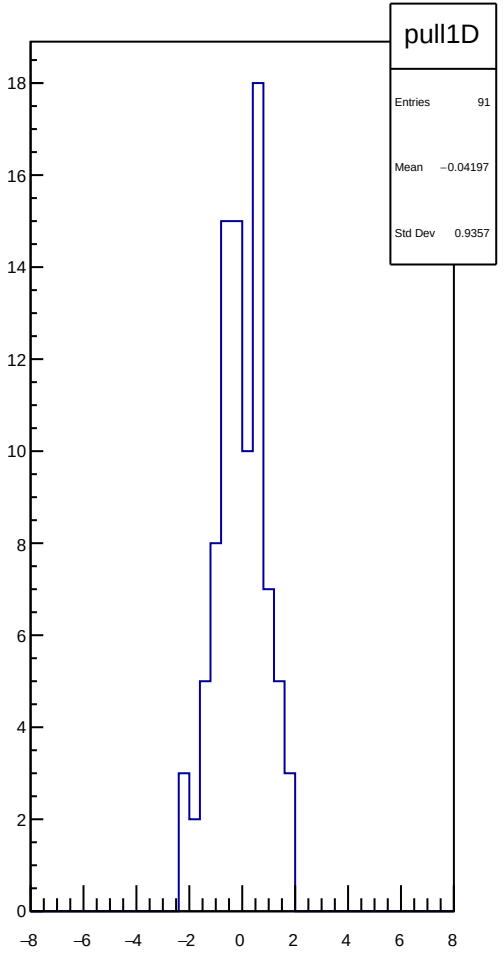

pull1D
Entries 91
Mean 0.02727
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

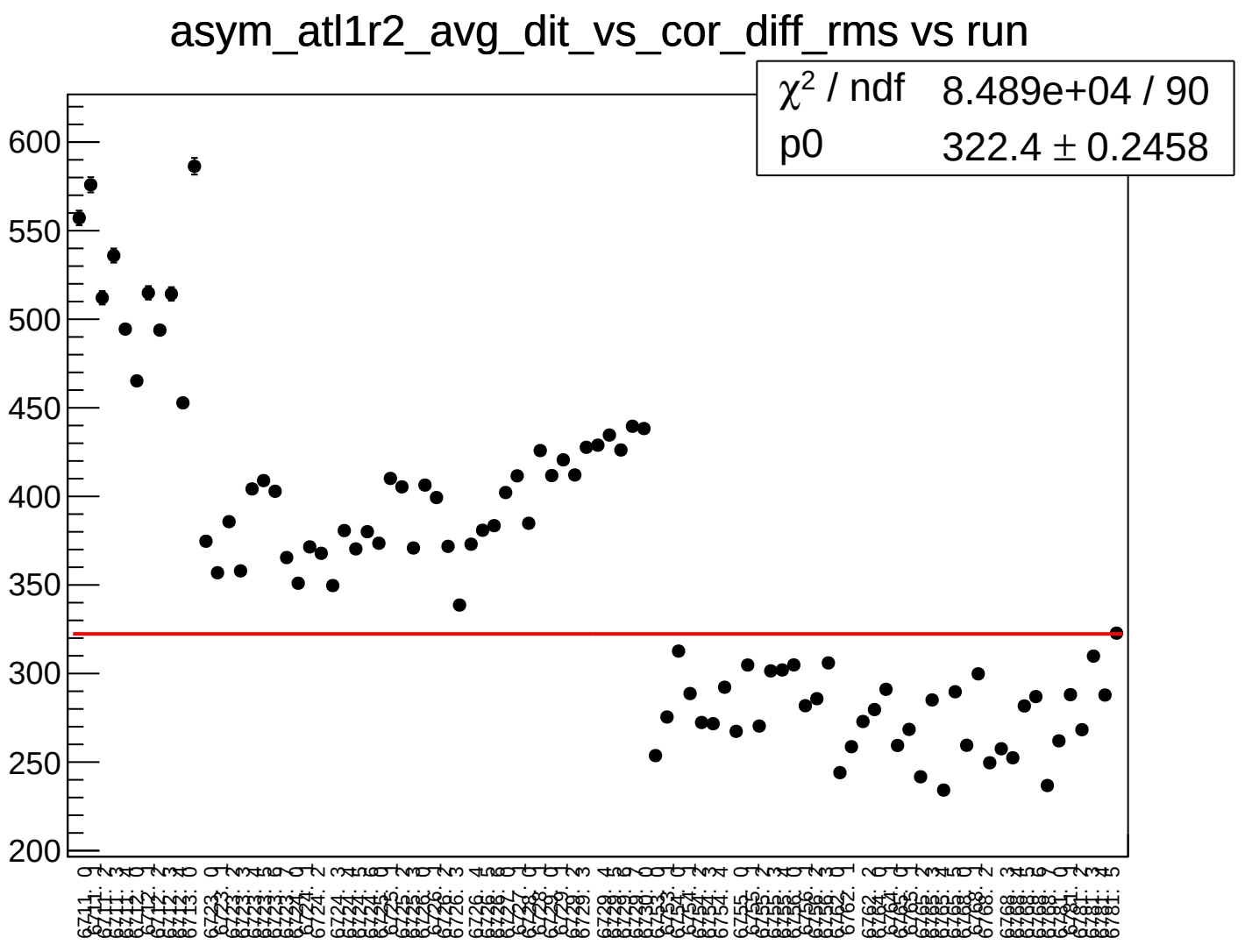

asym_atl1r2_avg_rms vs run
χ² / ndf 1.249e+04 / 90
p0 4433 ± 3.312
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

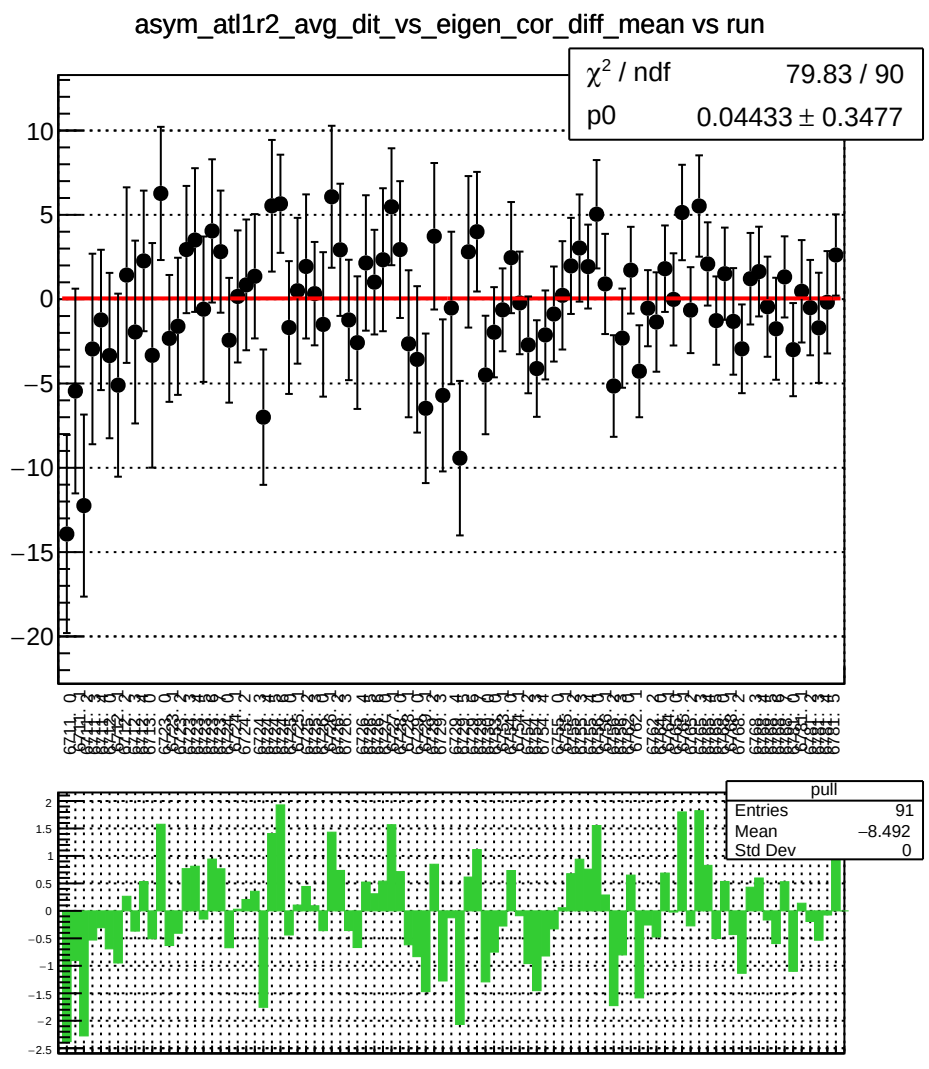

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.71 / 90
p0 −5.125e−14 ± 1.351e−13
pull
Entries 91
Mean 13.39
Std Dev 0
pull1D
Entries 91
Mean 0.1184
Std Dev 0.9633

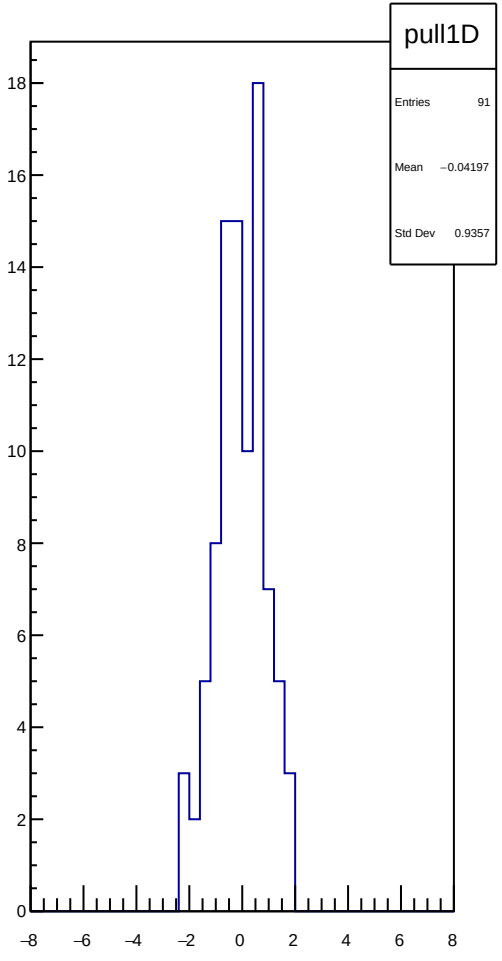

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.245e+06 / 90
p0 7.148e−11 ± 9.554e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

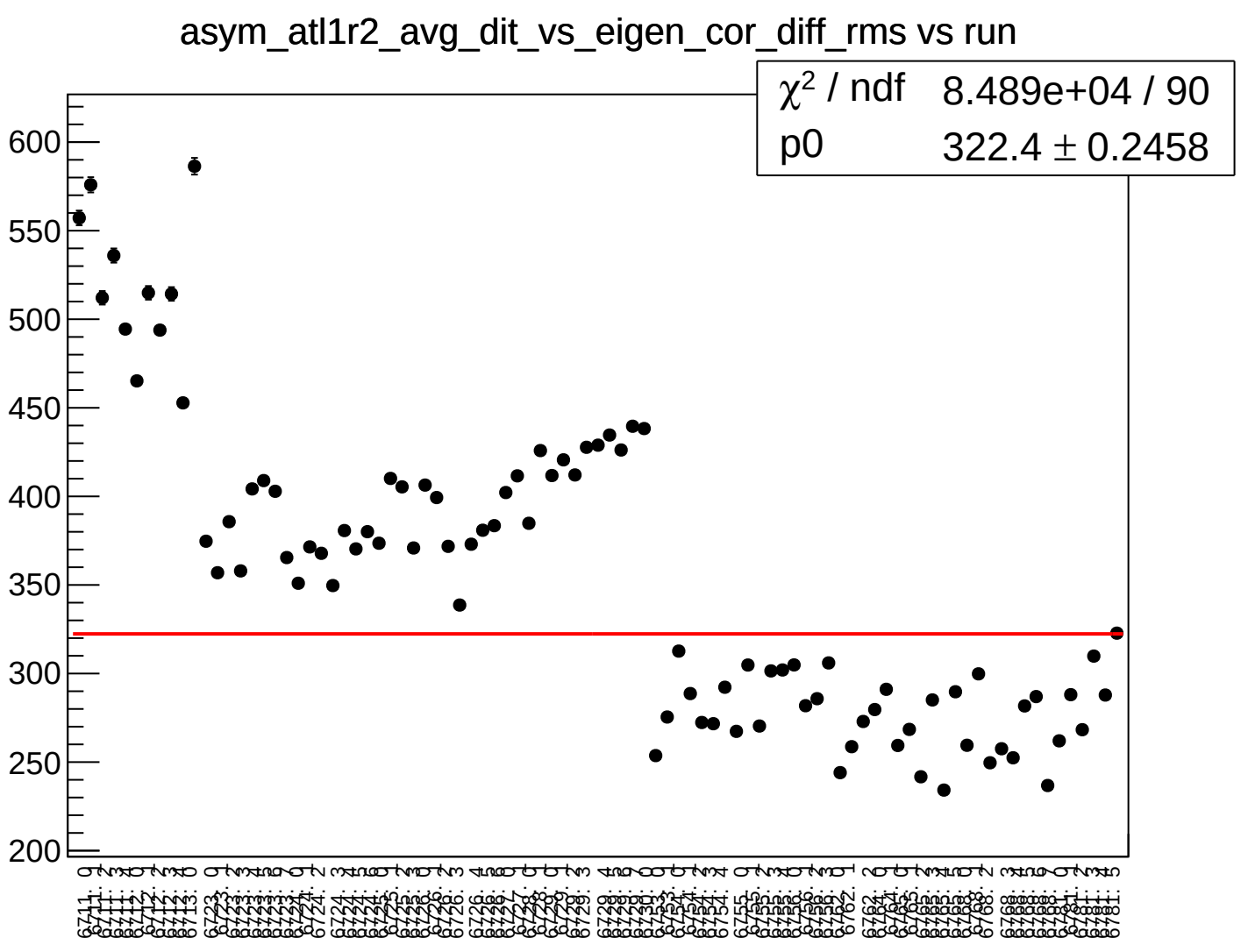

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.83 / 90
p0 0.04433 ± 0.3477
pull
Entries 91
Mean −8.492
Std Dev 0

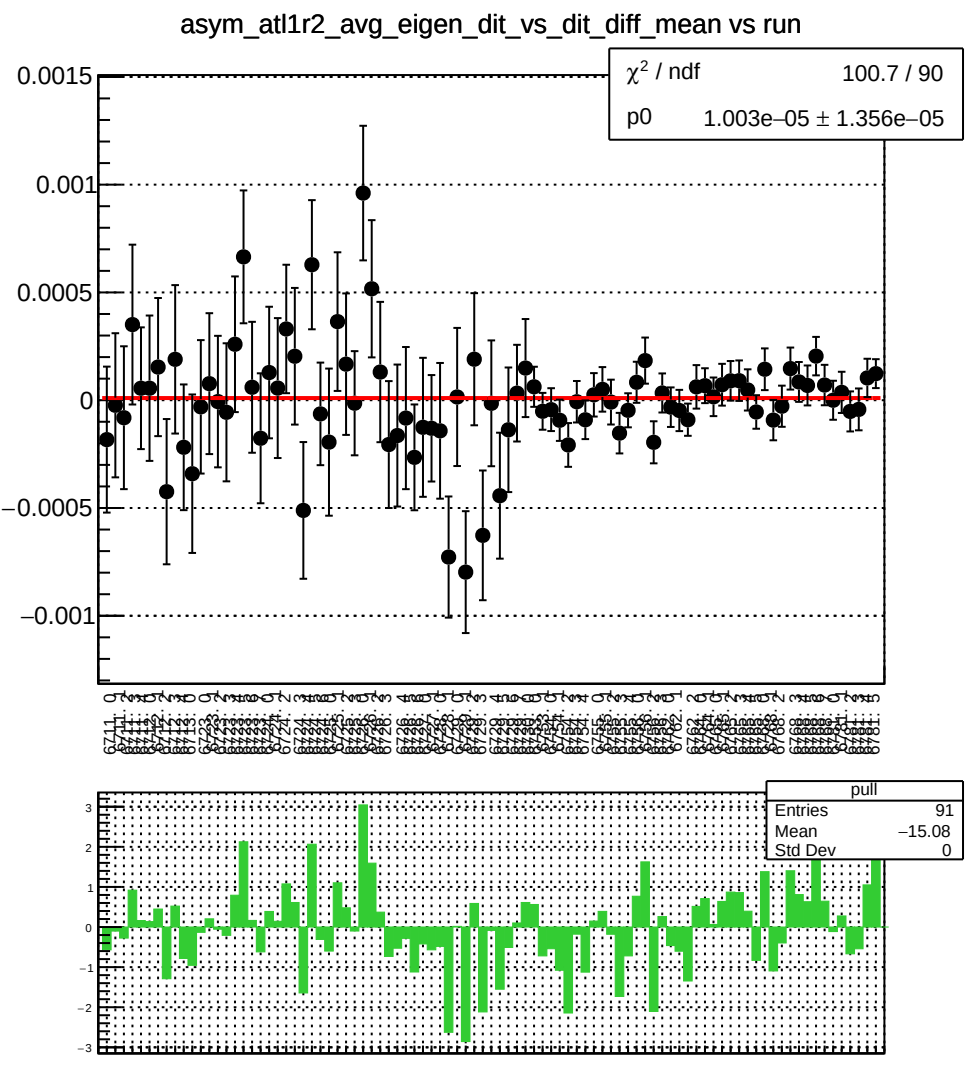

pull1D
Entries 91
Mean −0.04197
Std Dev 0.9357

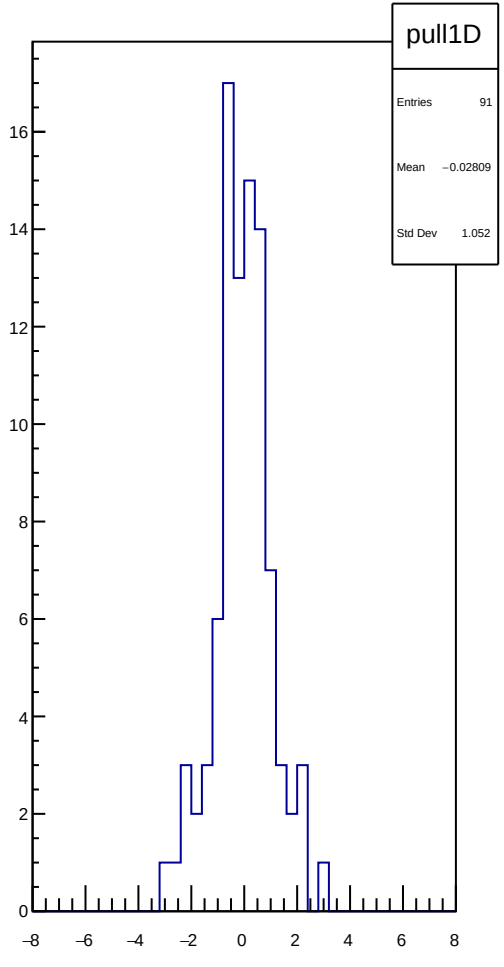

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.489e+04 / 90
p0 322.4 ± 0.2458
600
550
500
450
400
350
300
250
200

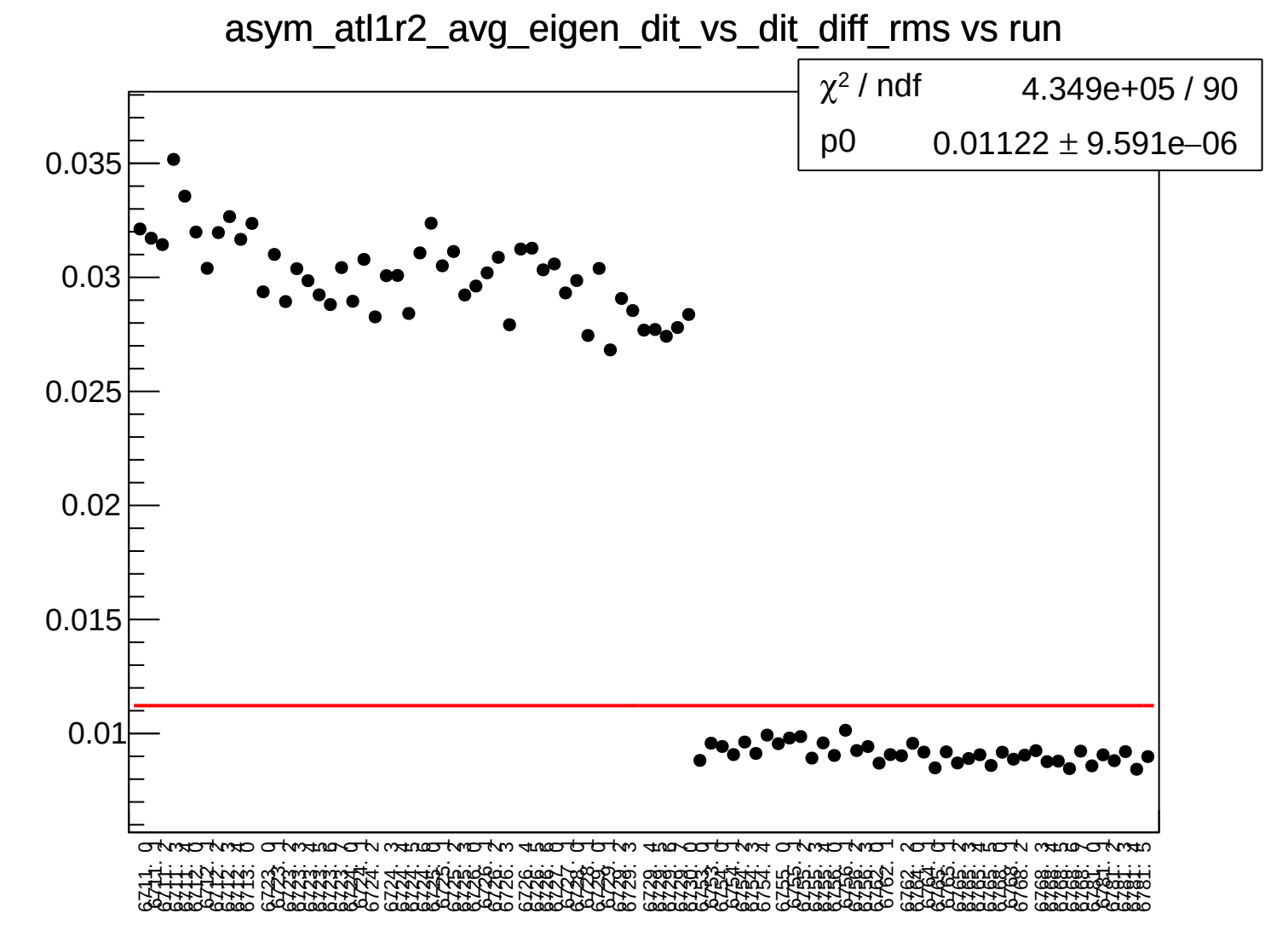

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.83 / 90
p0 0.04433 ± 0.3477
pull
Entries 91
Mean −8.492
Std Dev 0

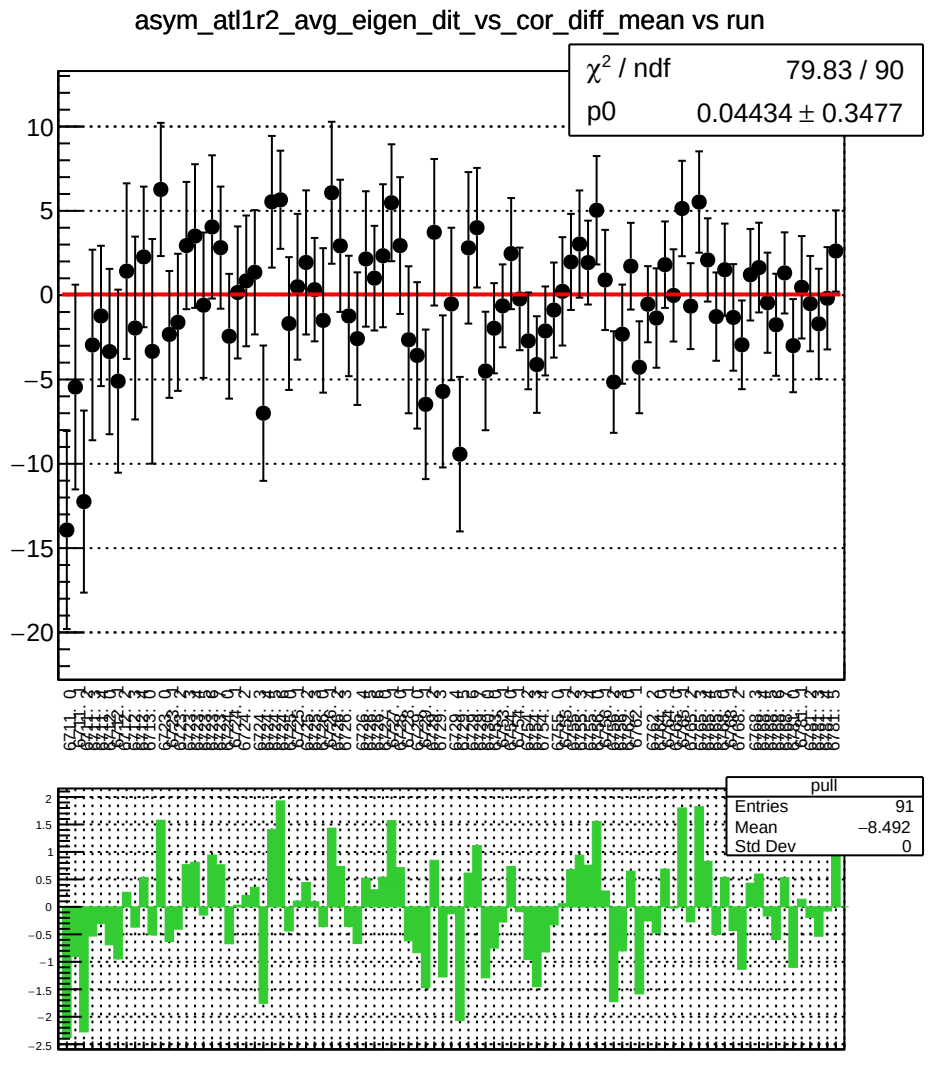

pull1D
Entries 91
Mean −0.04197
Std Dev 0.9357

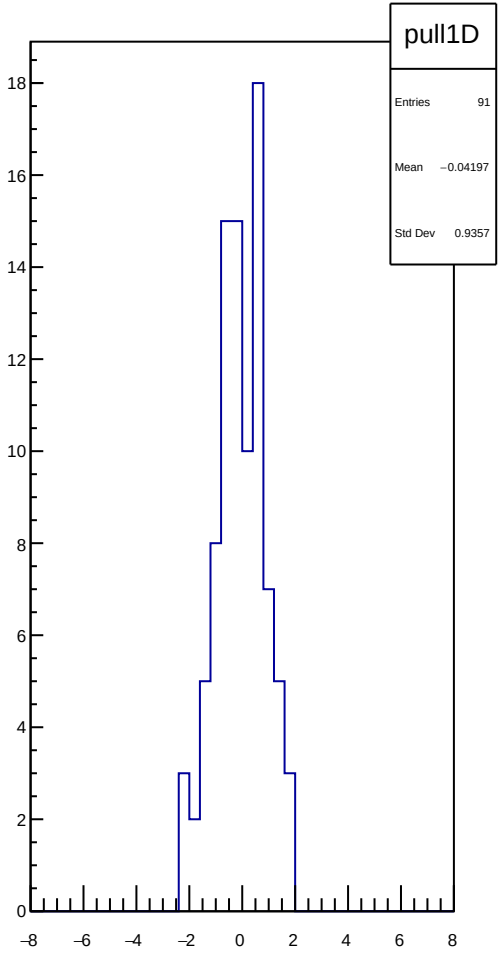

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.489e+04 / 90
p0 322.4 ± 0.2458
600
550
500
450
400
350
300
250
200

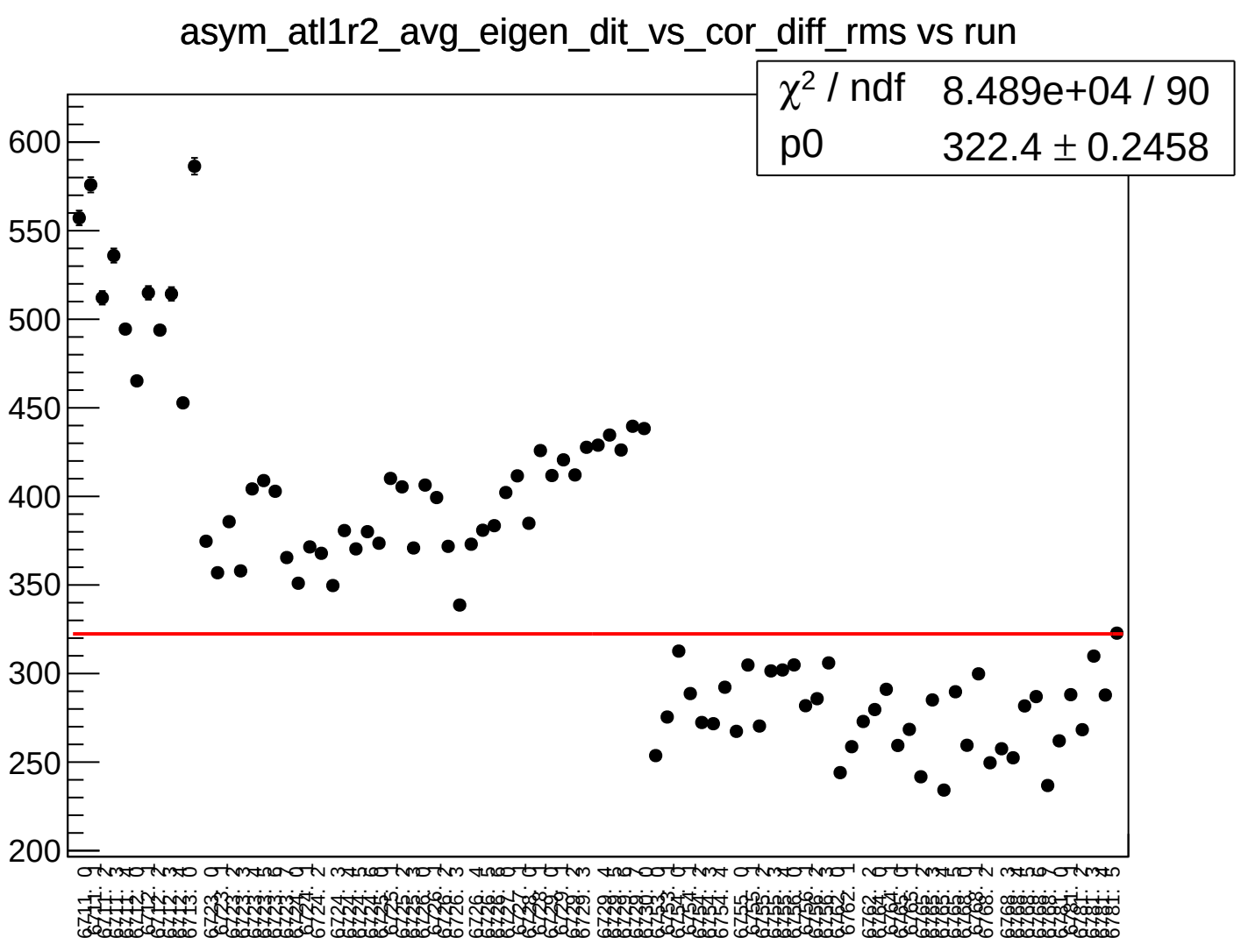

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 100.7 / 90
p0 1.003e−05 ± 1.356e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean −15.08
Std Dev 0
3
2
1
0
−1
−2
−3

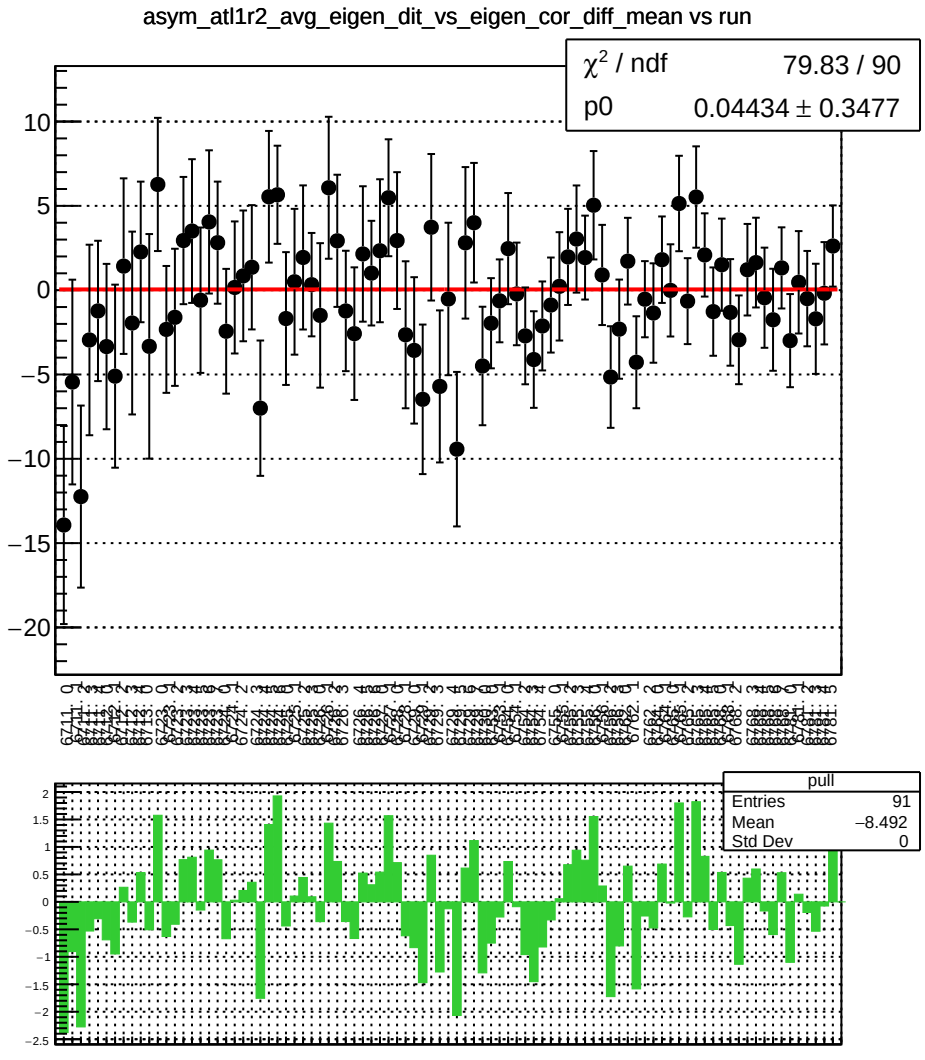

pull1D
Entries 91
Mean −0.02809
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

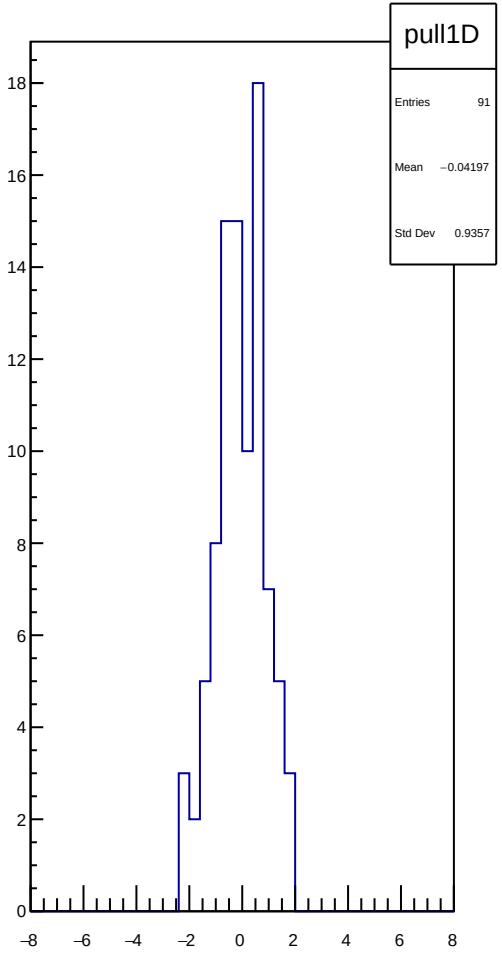

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.349e+05 / 90
p0 0.01122 ± 9.591e−06
0.035
0.03
0.025
0.02
0.015
0.01

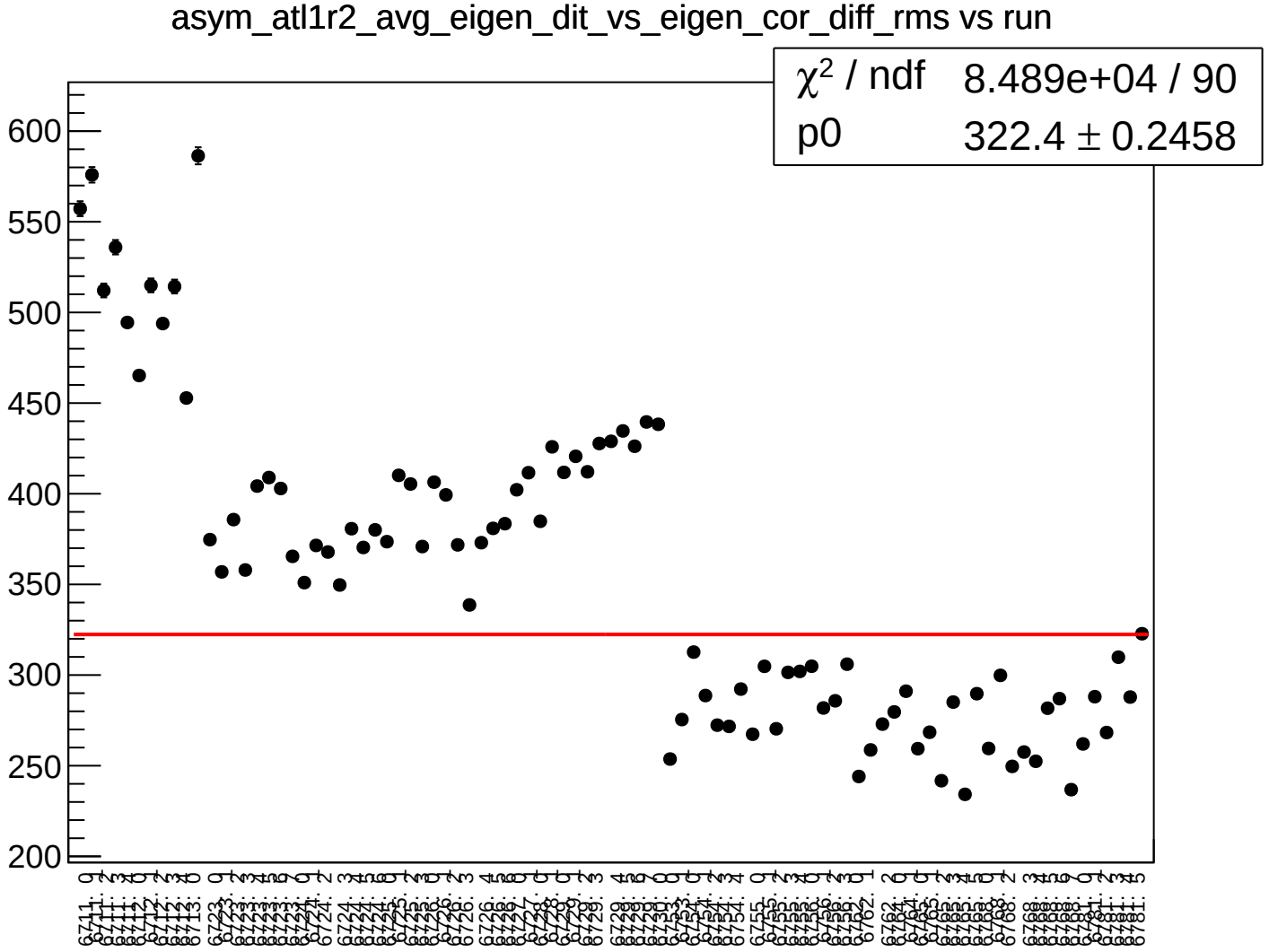

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.83 / 90
p0 0.04434 ± 0.3477
pull
Entries 91
Mean −8.492
Std Dev 0

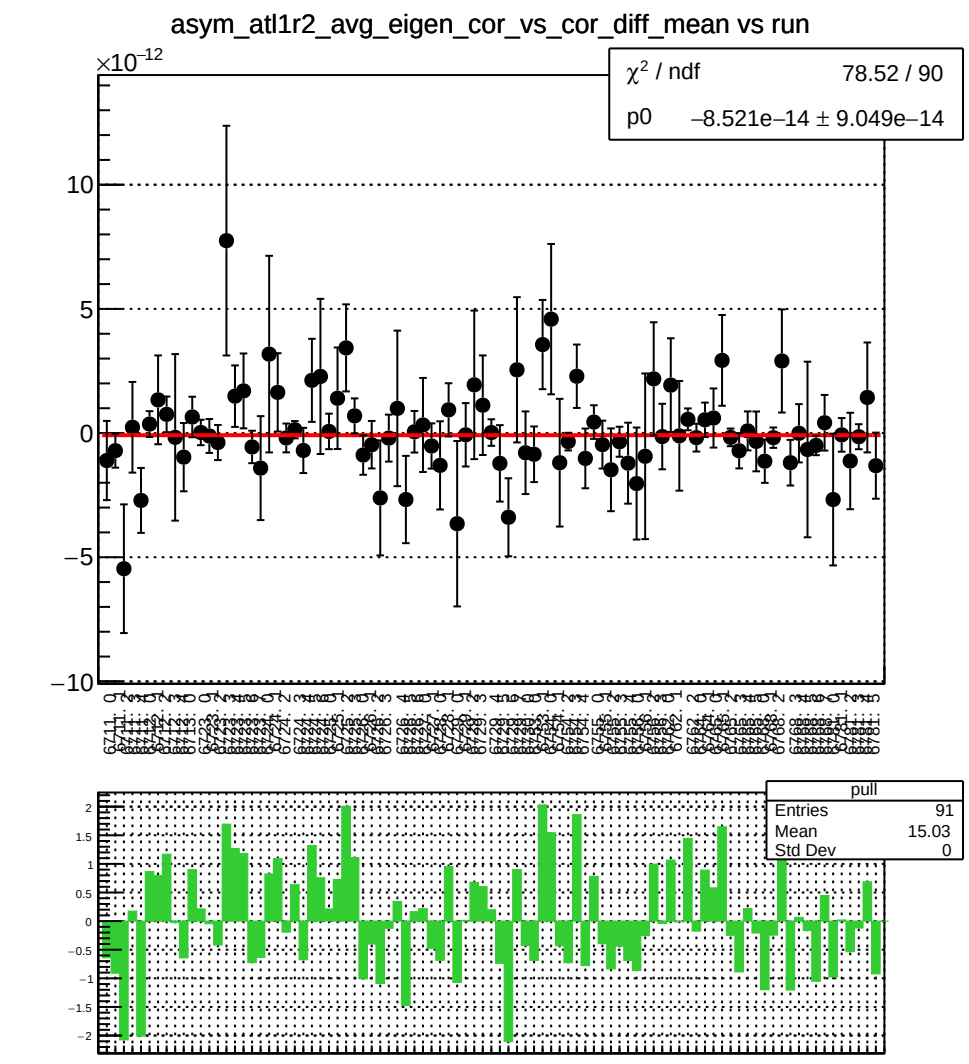

pull1D
Entries 91
Mean −0.04197
Std Dev 0.9357

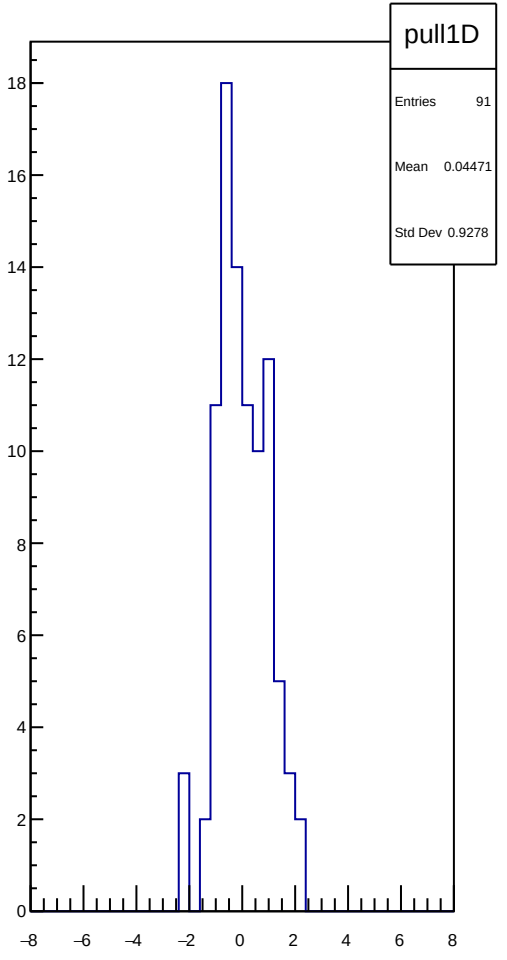

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.489e+04 / 90
p0 322.4 ± 0.2458
600
550
500
450
400
350
300
250
200

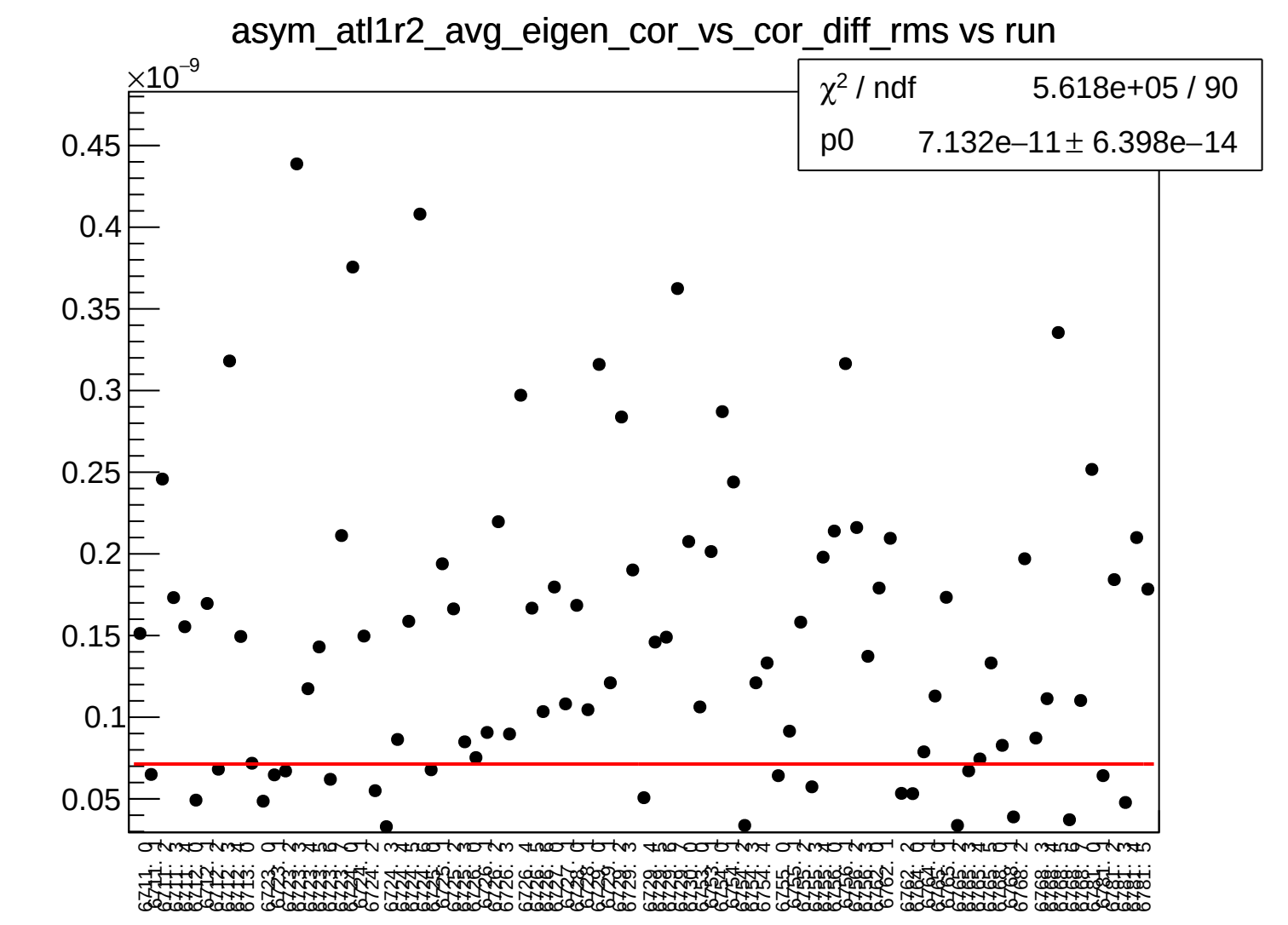

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.83 / 90
p0 0.04434 ± 0.3477
pull
Entries 91
Mean −8.492
Std Dev 0

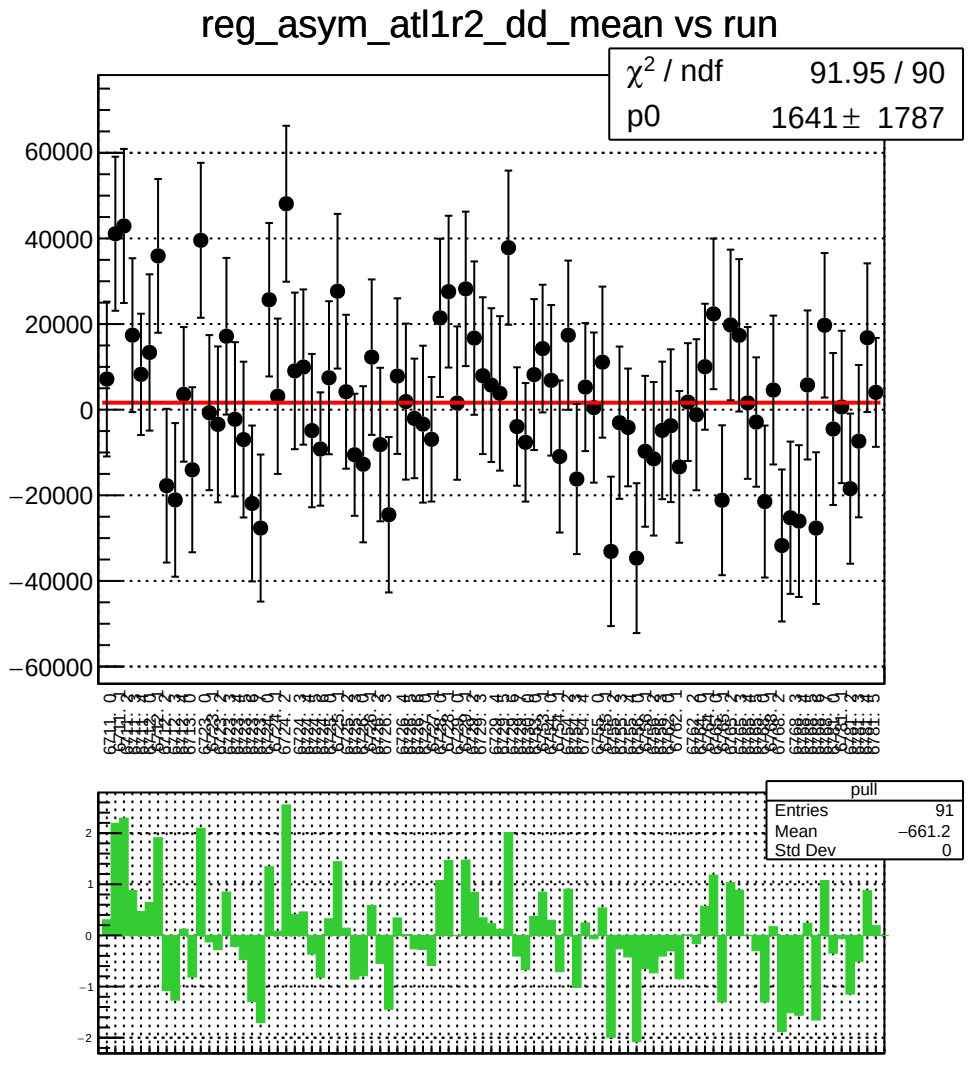

pull1D
Entries 91
Mean −0.04197
Std Dev 0.9357

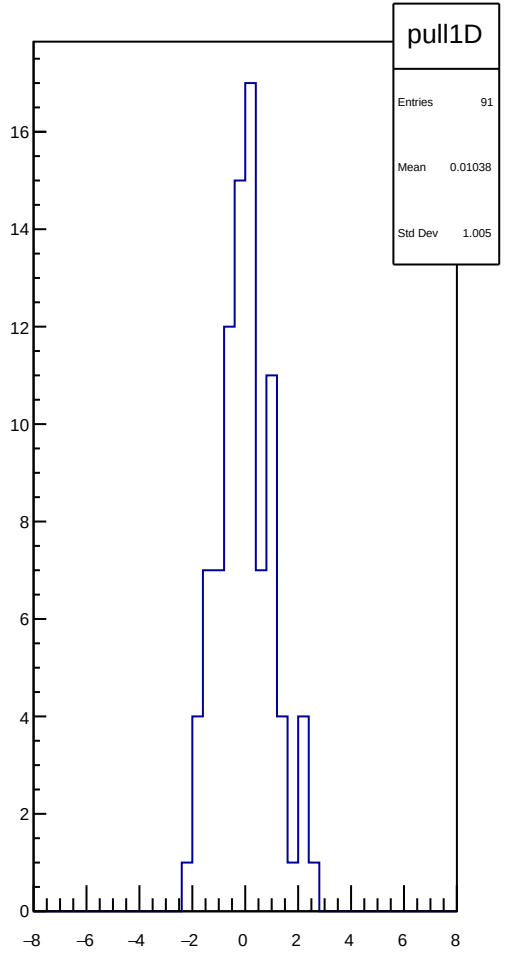

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.489e+04 / 90
p0 322.4 ± 0.2458
600
550
500
450
400
350
300
250
200

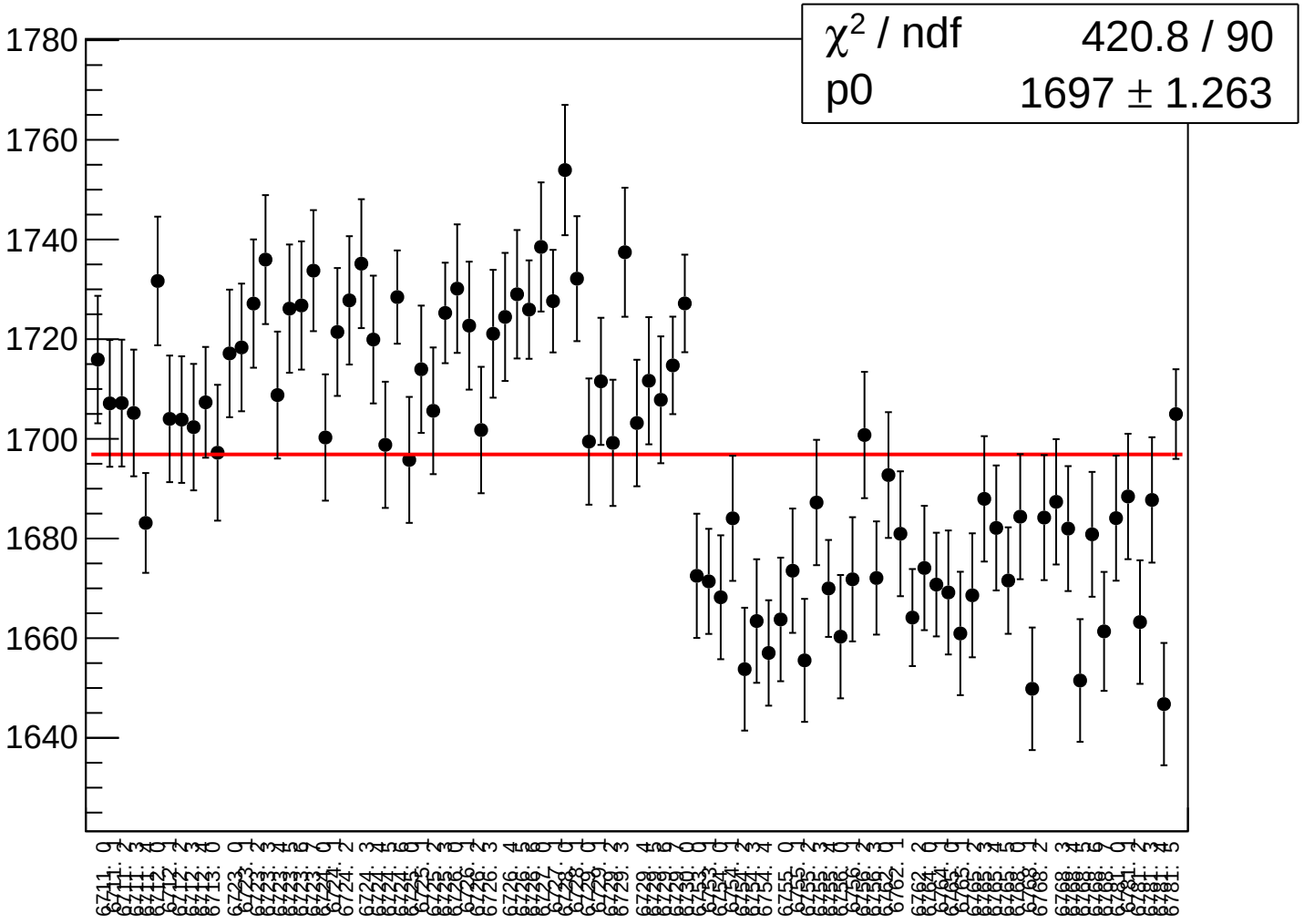

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 78.52 / 90
p0 −8.521e−14 ± 9.049e−14
pull
Entries 91
Mean 15.03
Std Dev 0

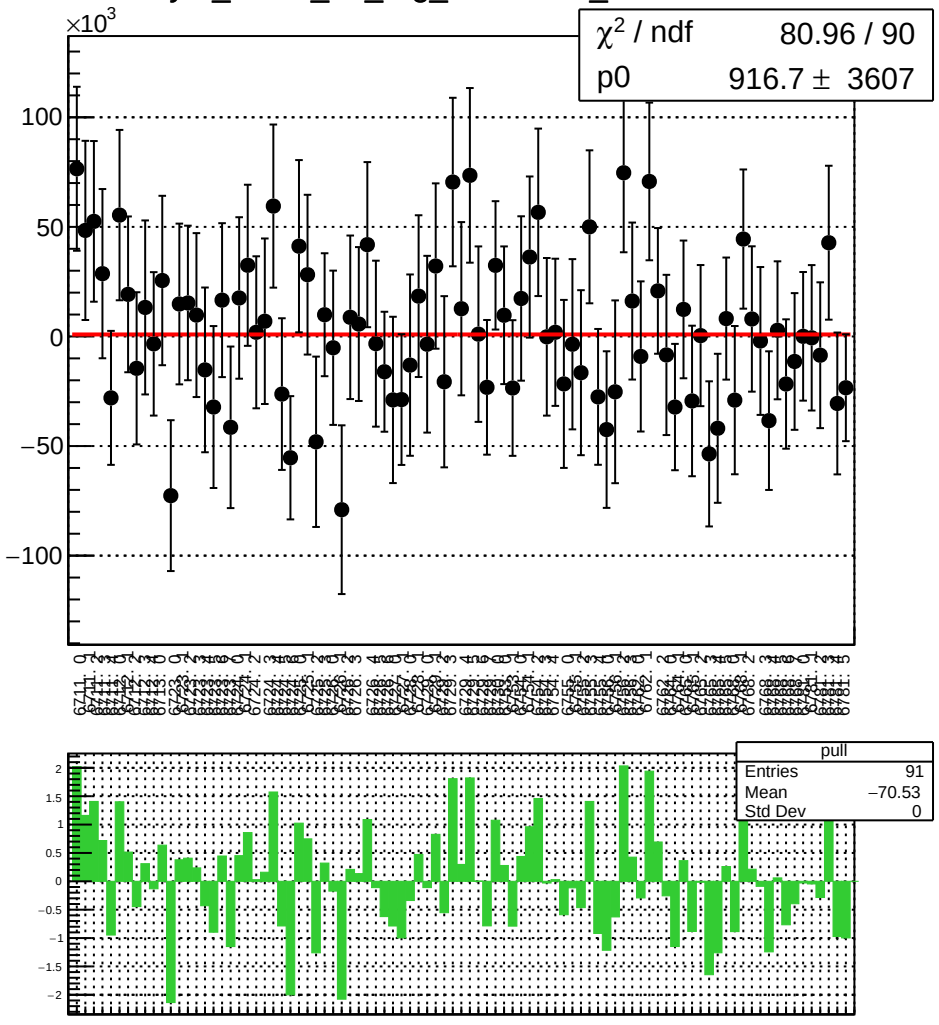

pull1D
Entries 91
Mean 0.04471
Std Dev 0.9278

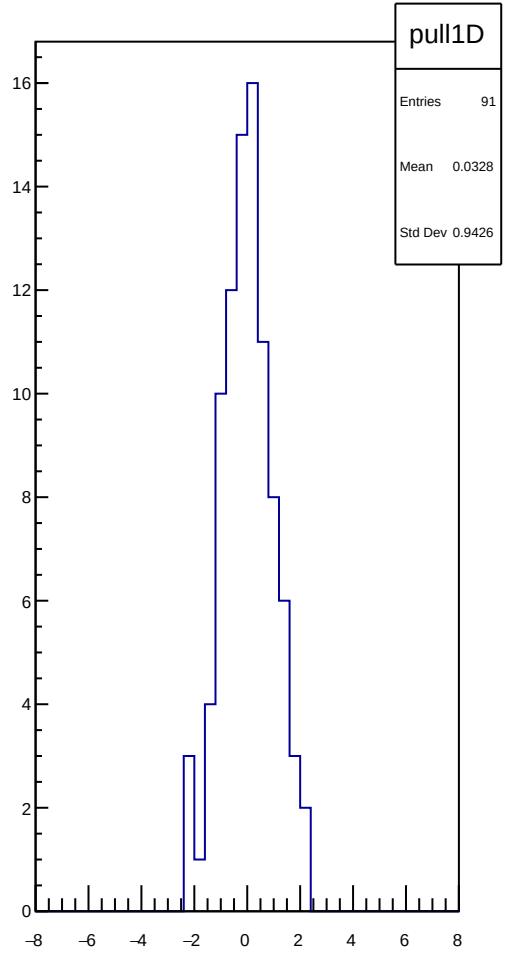

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.618e+05 / 90
p0 7.132e−11 ± 6.398e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

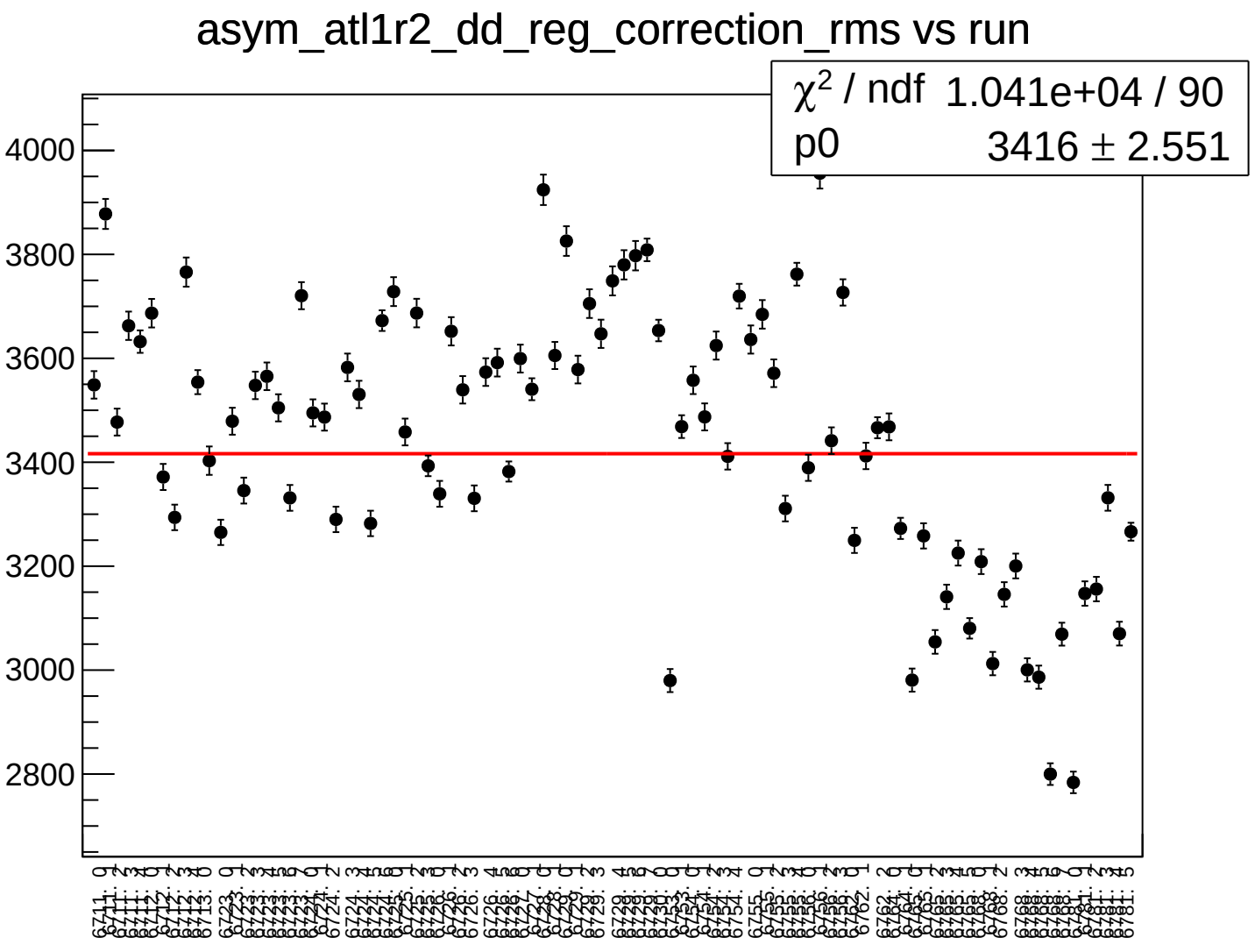

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 91.95 / 90
p0 1641 ± 1787
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −661.2
Std Dev 0
2
1
0
−1
−2

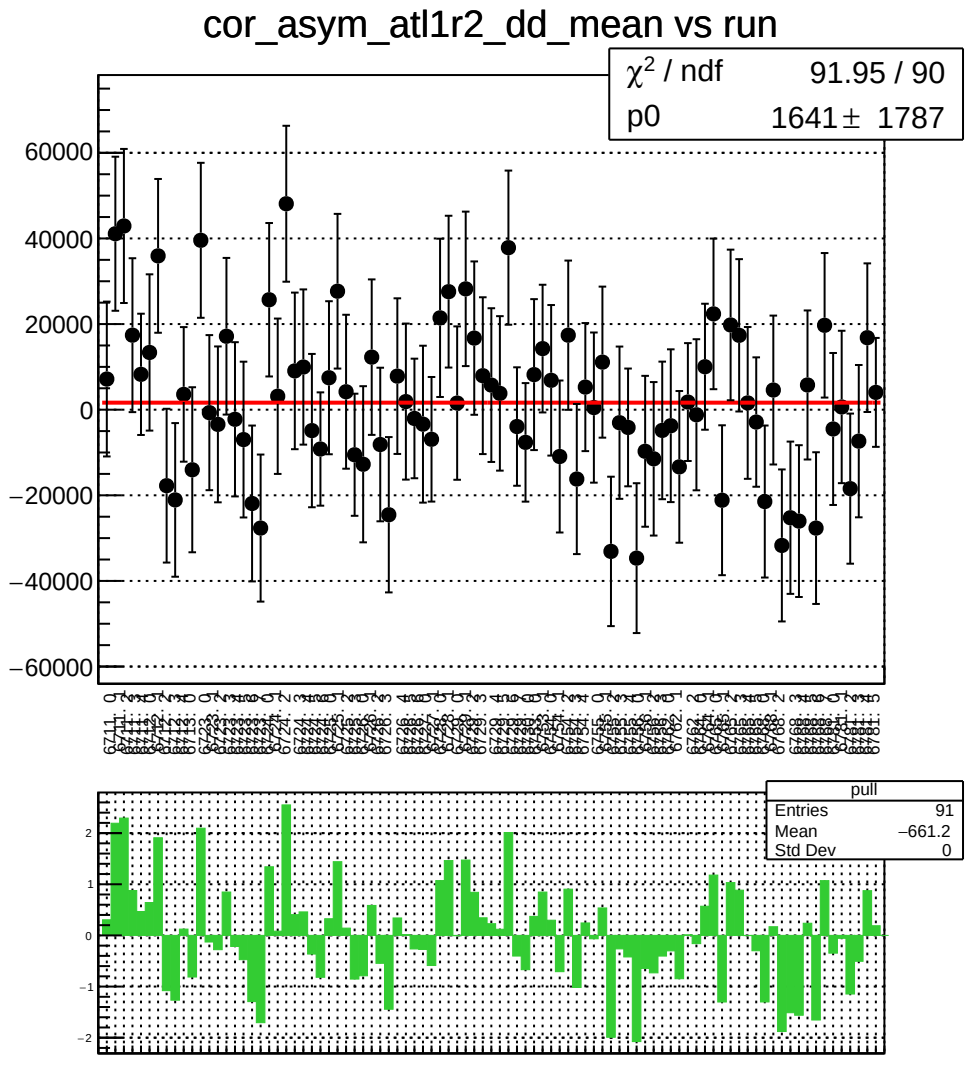

pull1D
Entries 91
Mean 0.01038
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

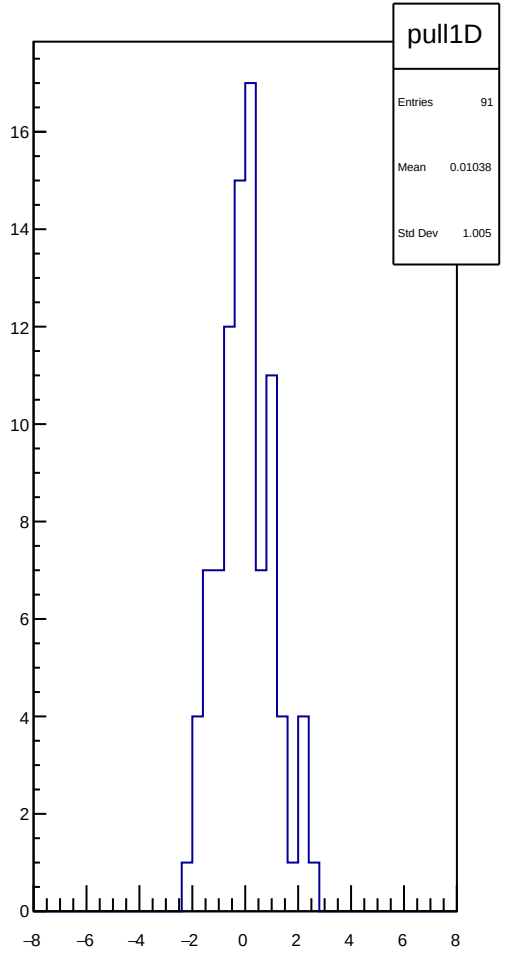

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 420.8 / 90
p0 1697 ± 1.263
1780
1760
1740
1720
1700
1680
1660
1640

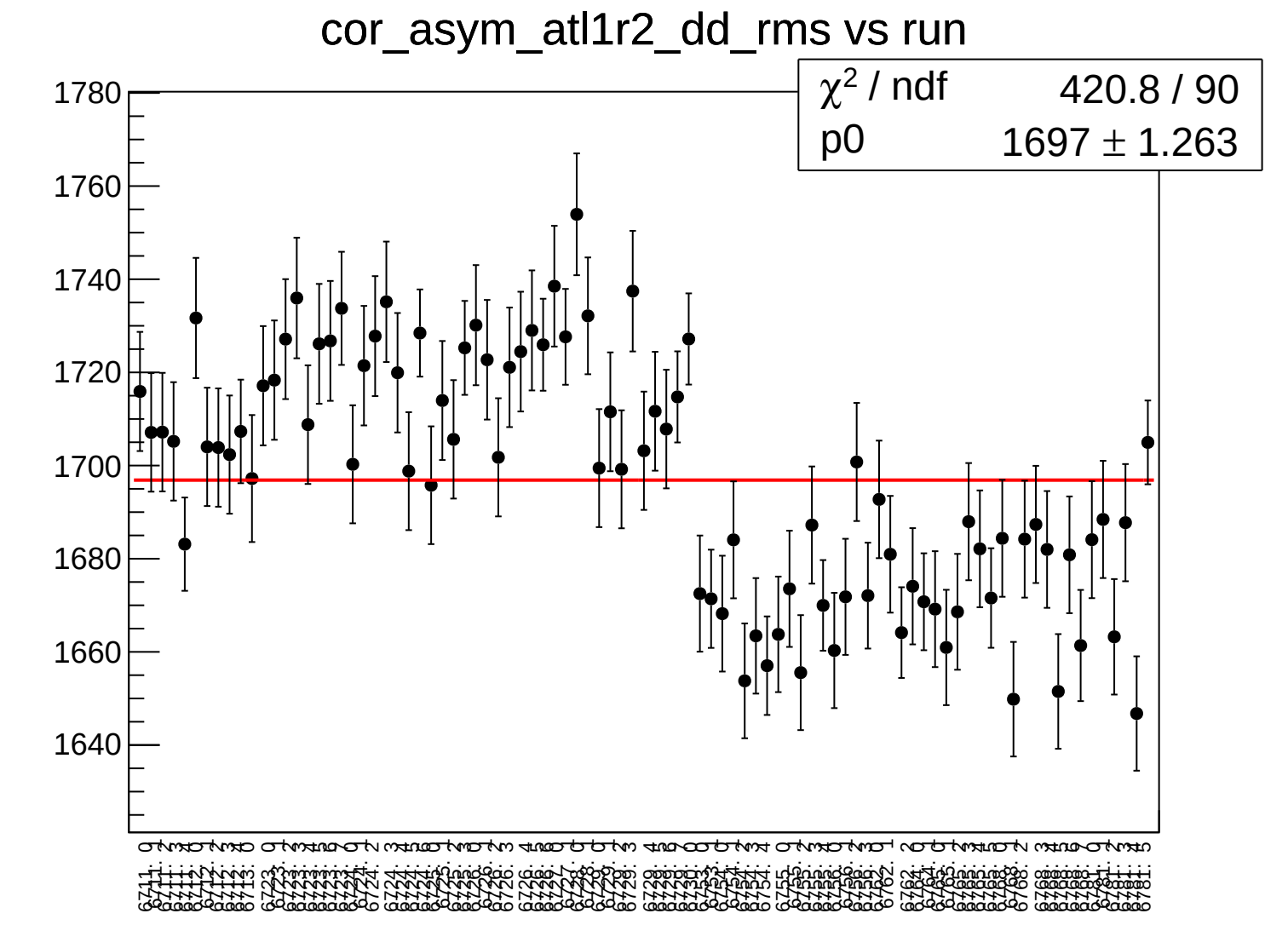

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 80.96 / 90
p0 916.7 ± 3607
100
50
0
−50
−100
pull
Entries 91
Mean −70.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

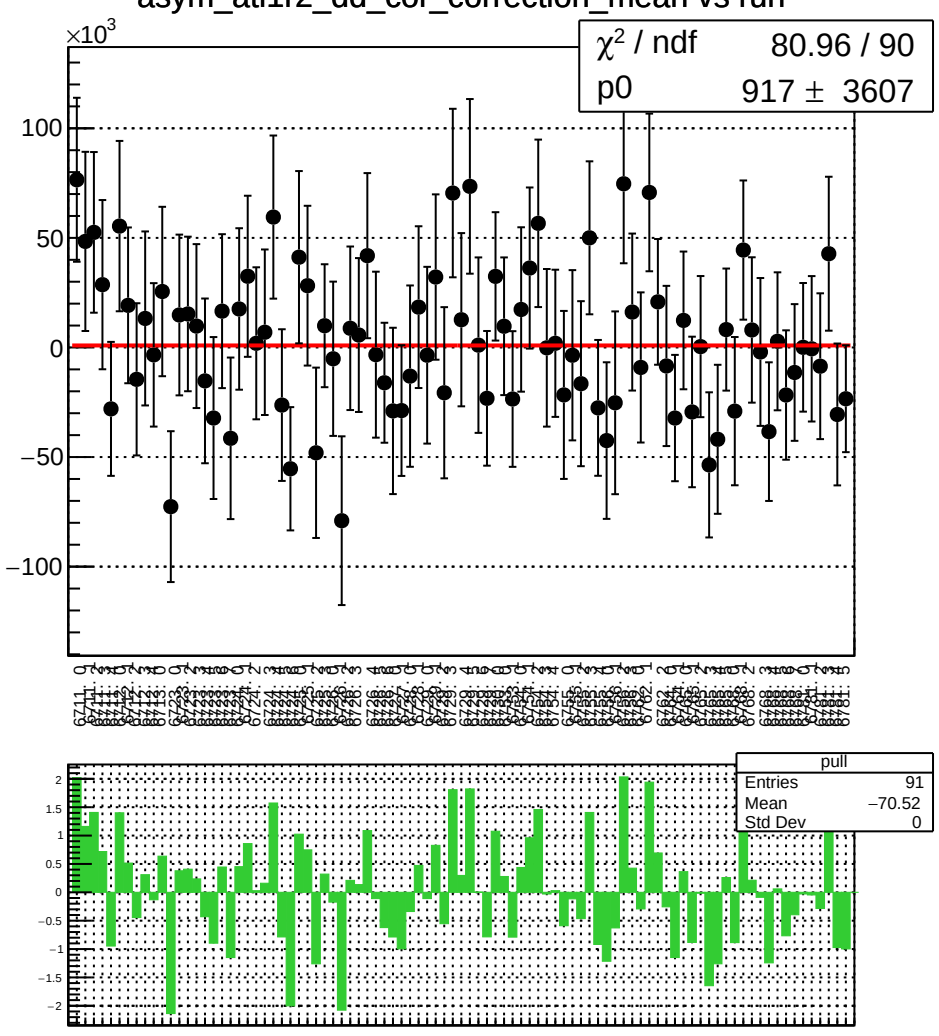

pull1D
Entries 91
Mean 0.0328
Std Dev 0.9426
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

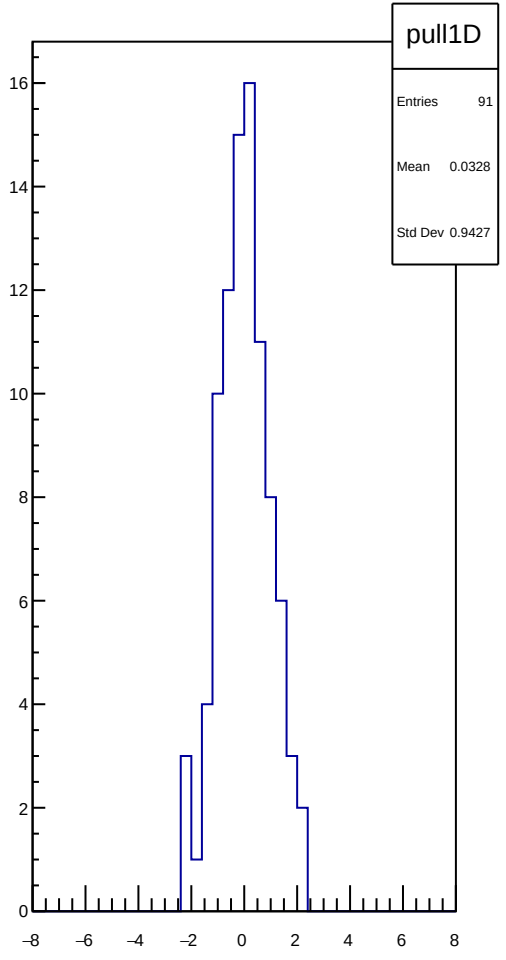

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 1.041e+04 / 90
p0 3416 ± 2.551
4000
3800
3600
3400
3200
3000
2800

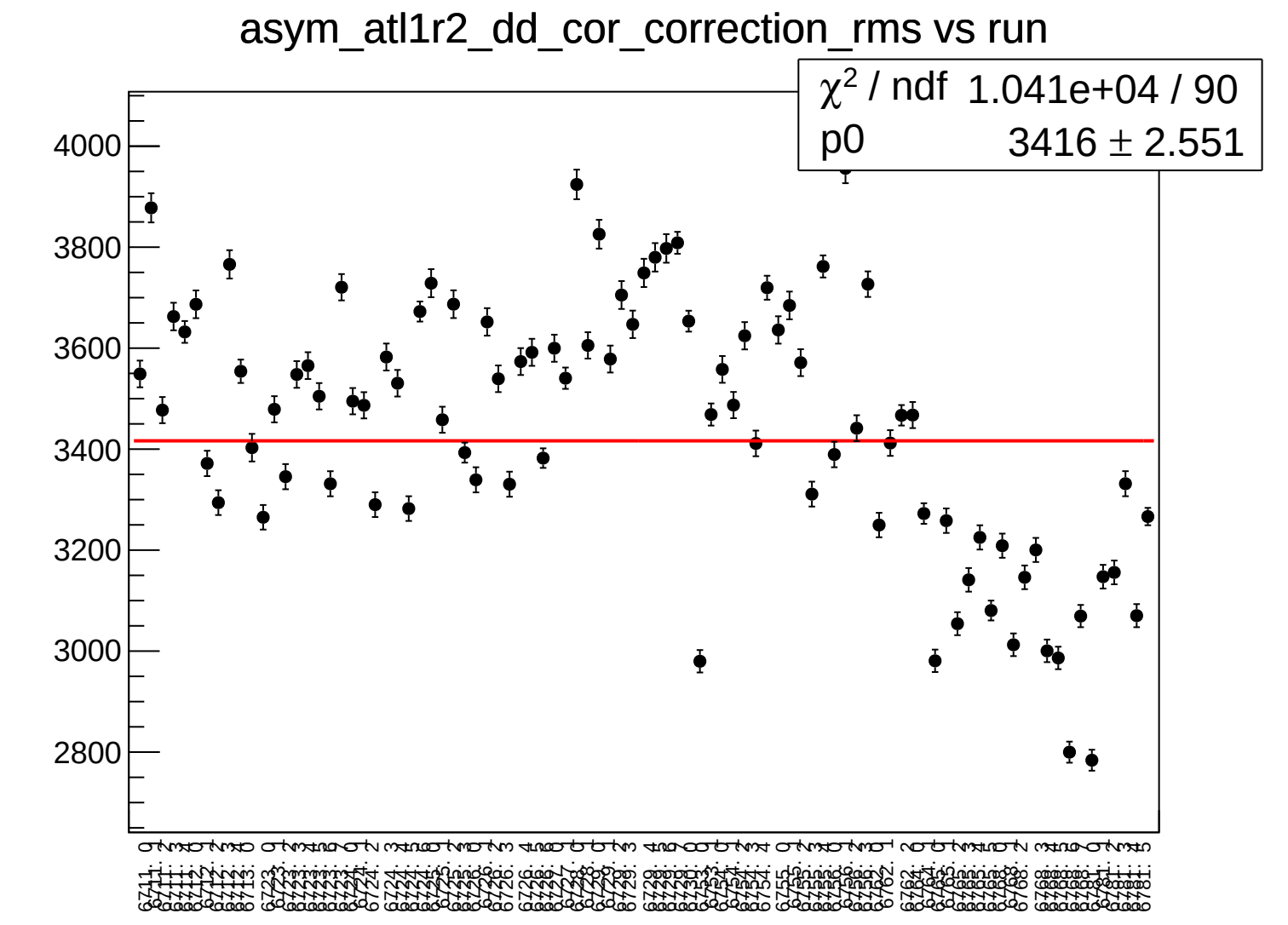

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 91.95 / 90
p0 1641 ± 1787
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −661.2
Std Dev 0
2
1
0
−1
−2

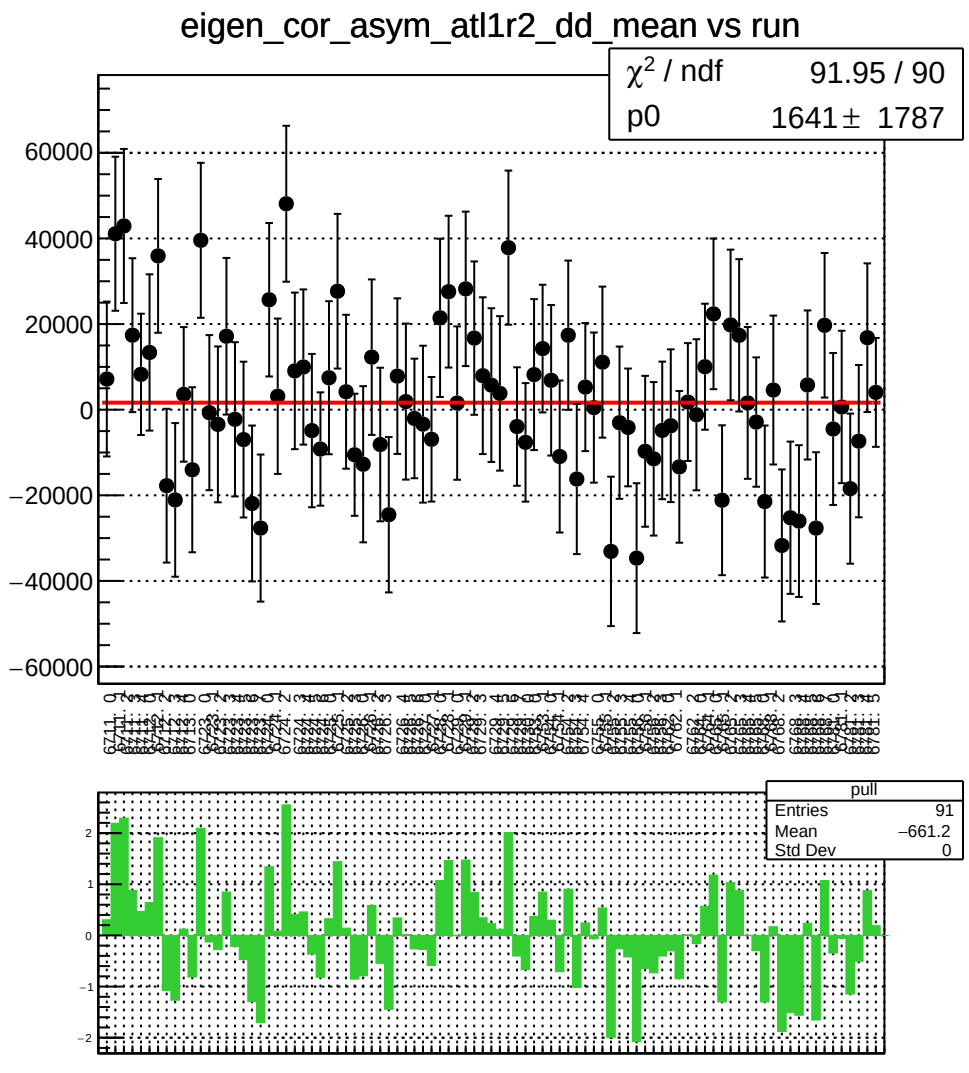

pull1D
Entries 91
Mean 0.01038
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

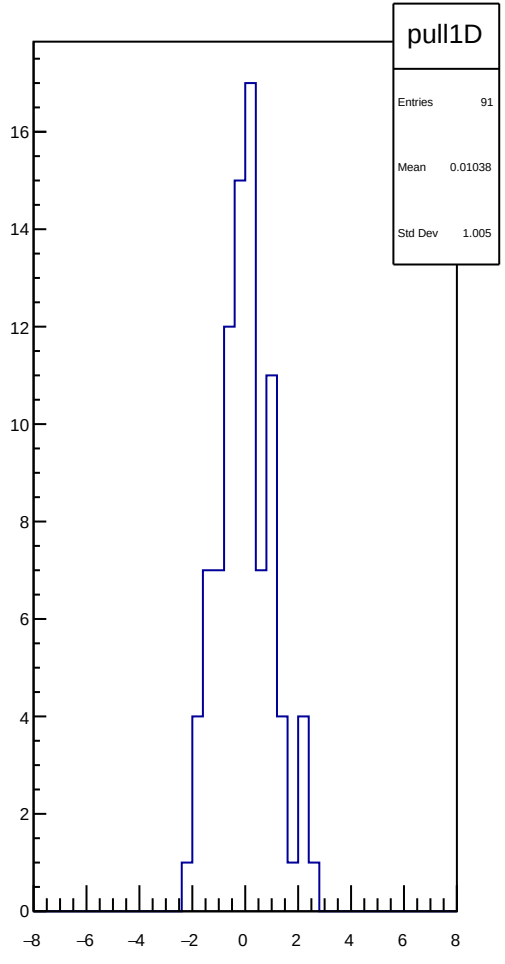

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 420.8 / 90
p0 1697 ± 1.263
1780
1760
1740
1720
1700
1680
1660
1640

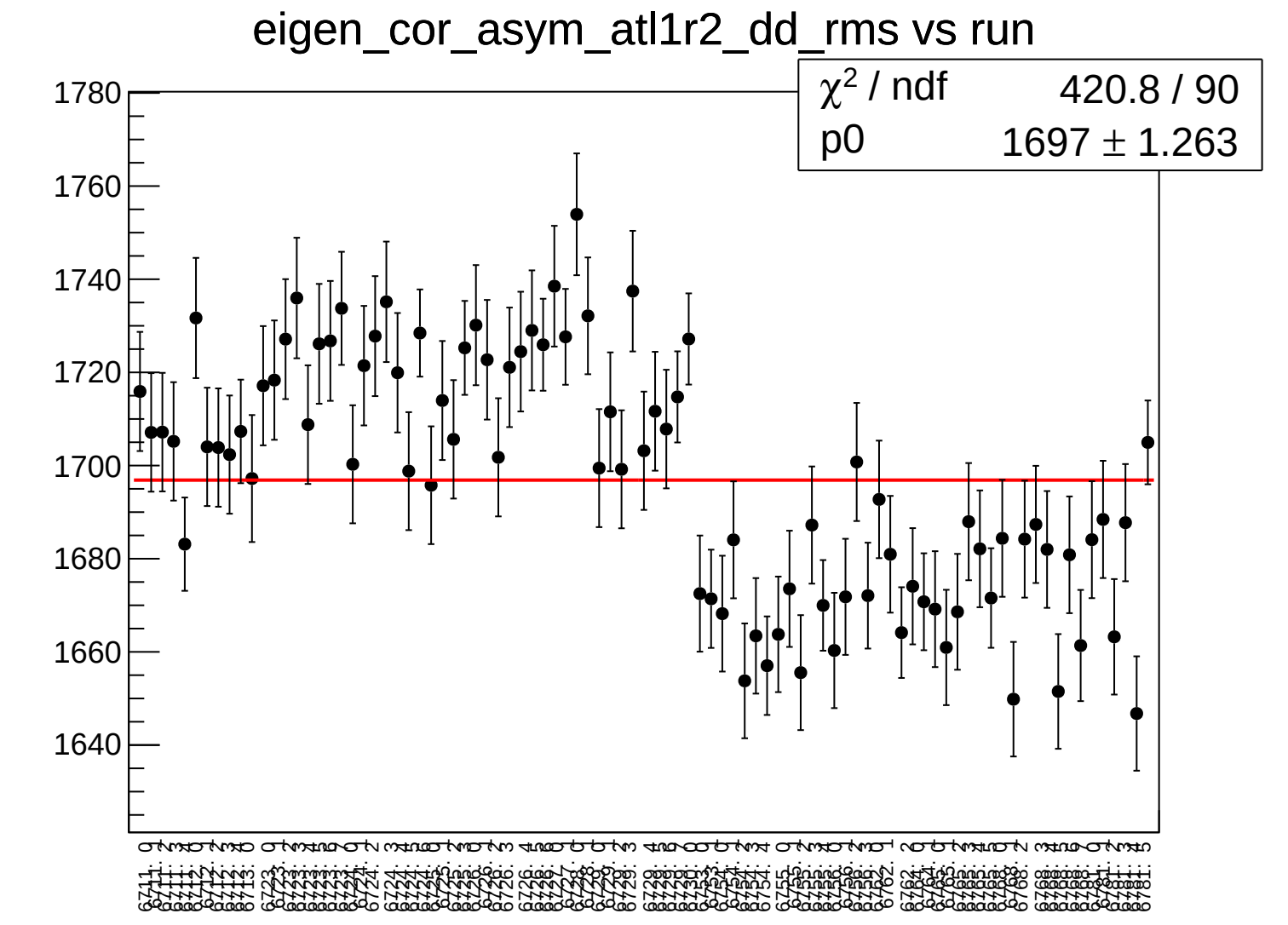

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 80.96 / 90
p0 917 ± 3607
100
50
0
−50
−100
pull
Entries 91
Mean −70.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

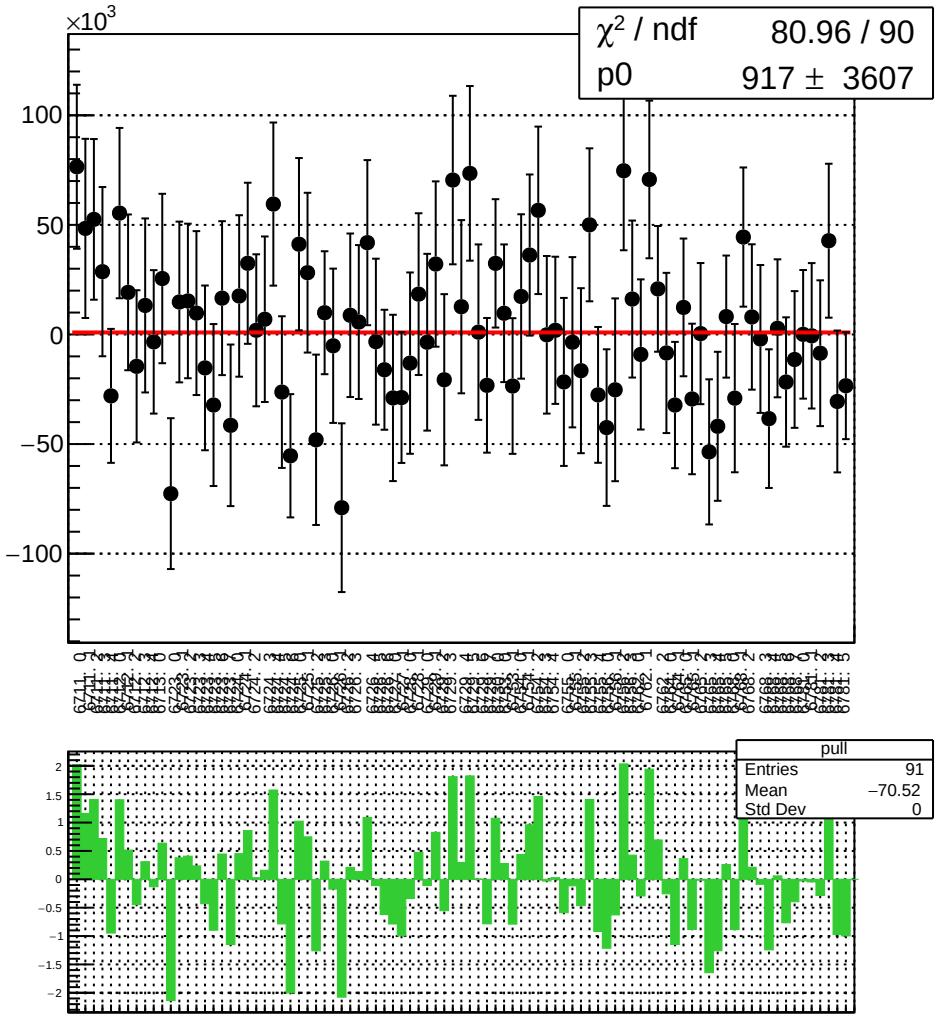

pull1D
Entries 91
Mean 0.0328
Std Dev 0.9427
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

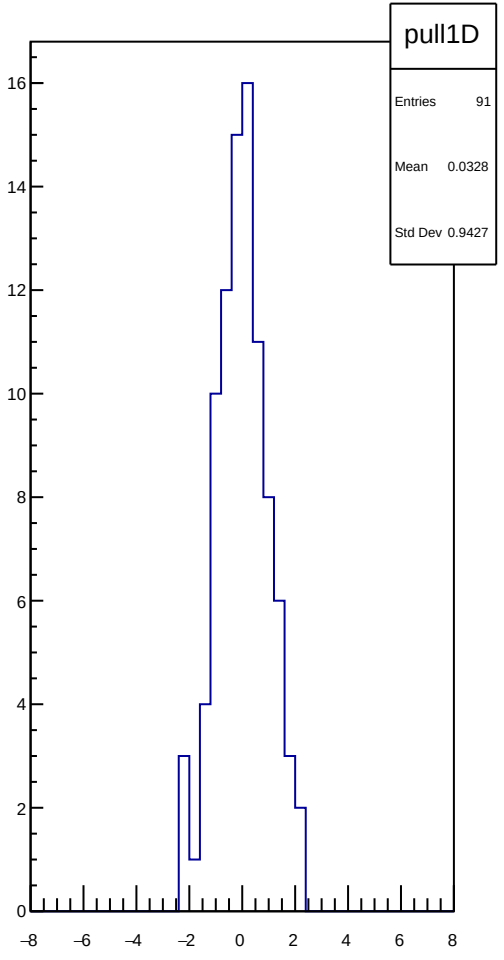

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 1.041e+04 / 90
p0 3416 ± 2.551
4000
3800
3600
3400
3200
3000
2800

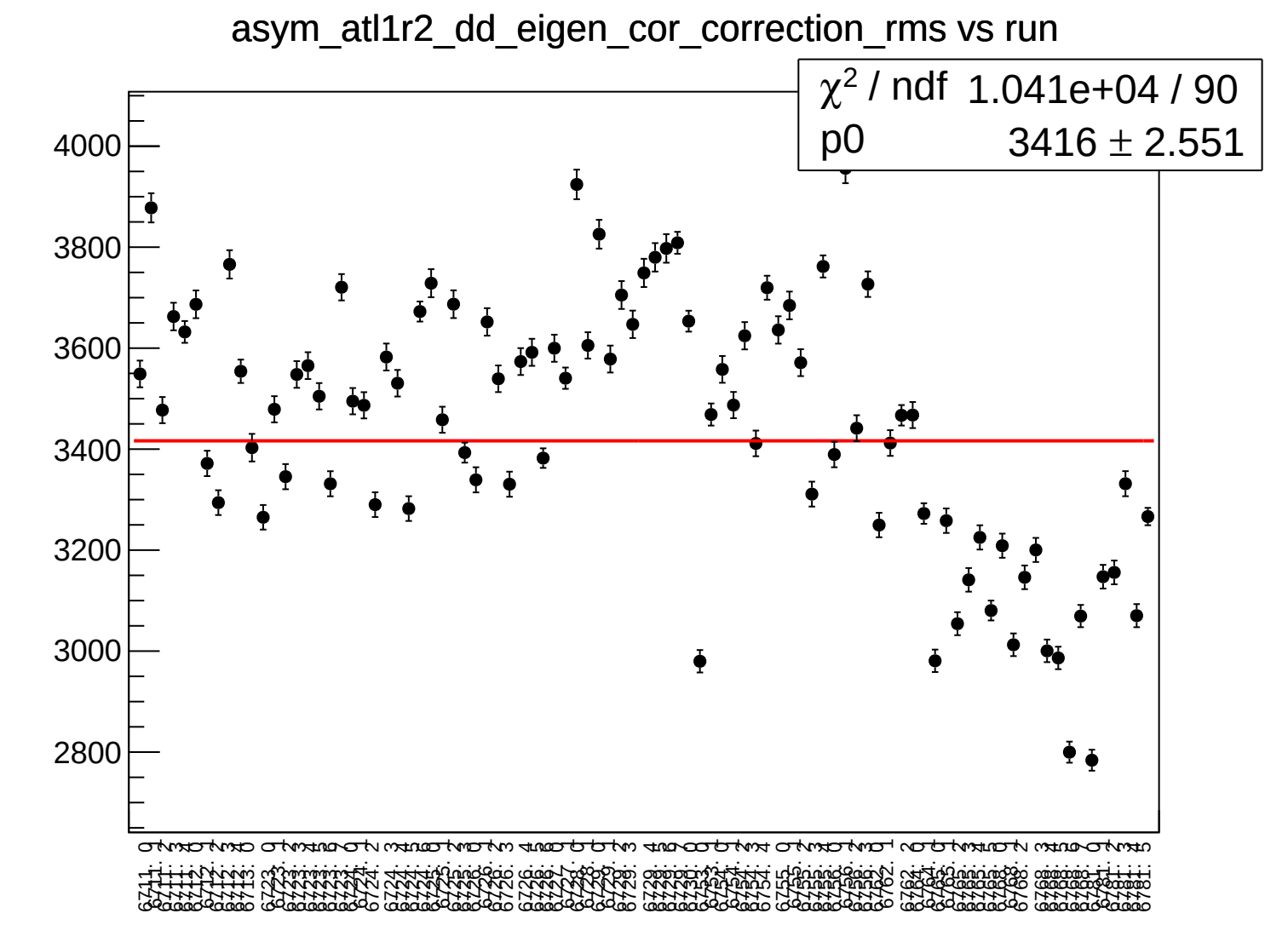

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 91.95 / 90
p0 1641 ± 1787
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −661.2
Std Dev 0
2
1
0
−1
−2

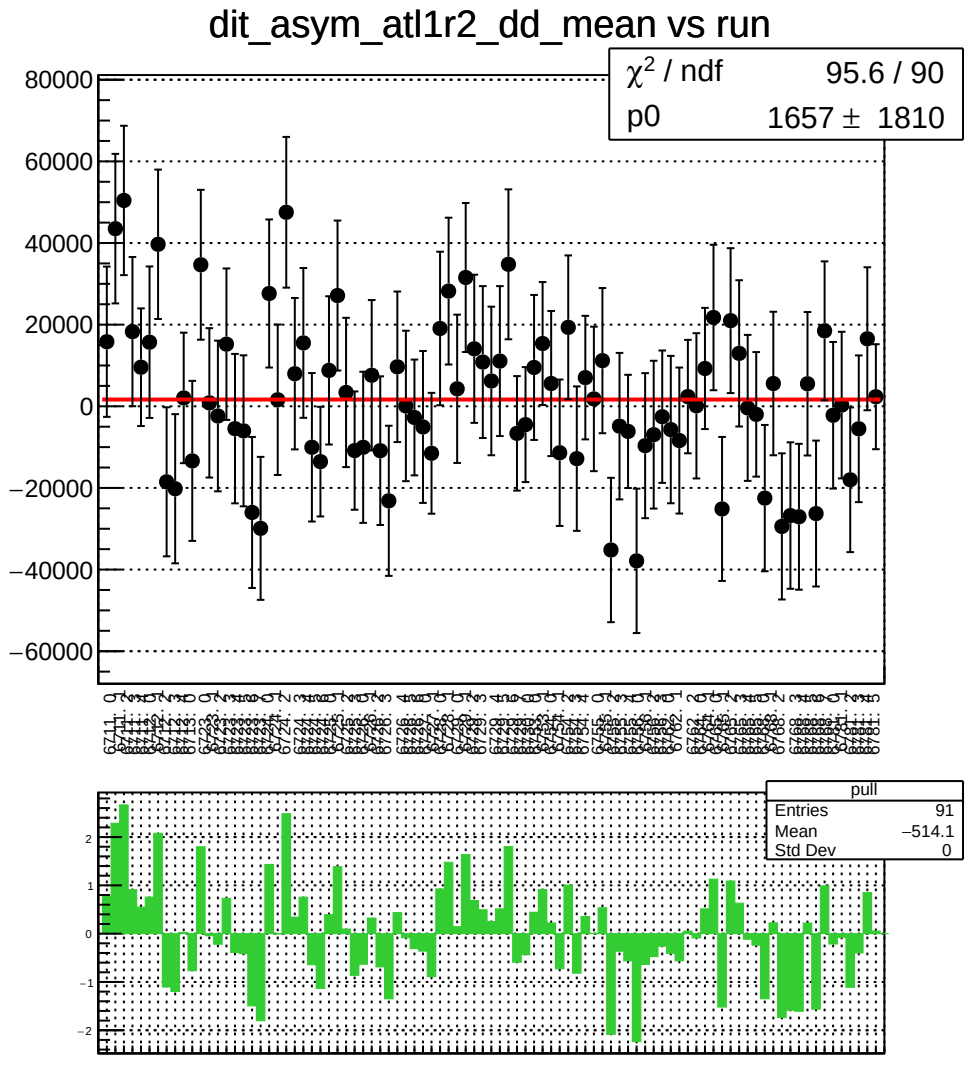

pull1D
Entries 91
Mean 0.01038
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

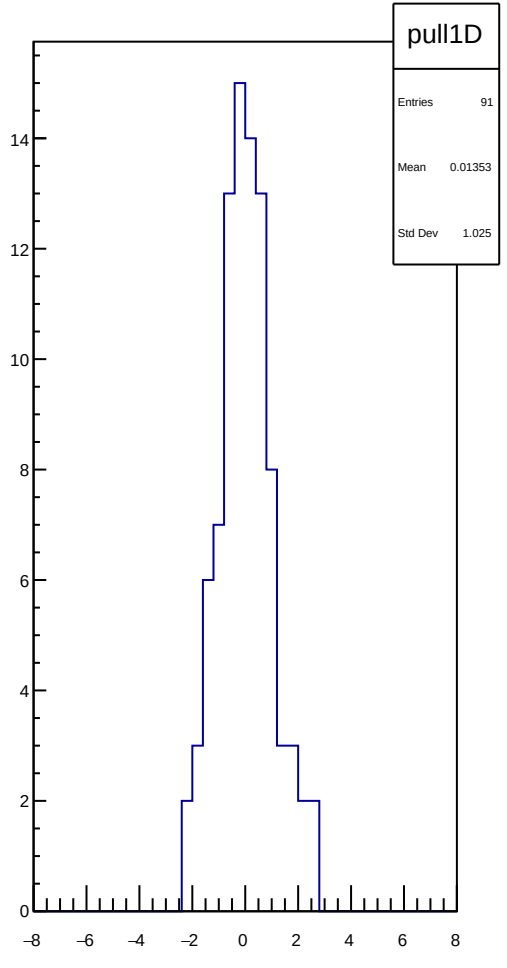

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 420.8 / 90
p0 1697 ± 1.263
1780
1760
1740
1720
1700
1680
1660
1640

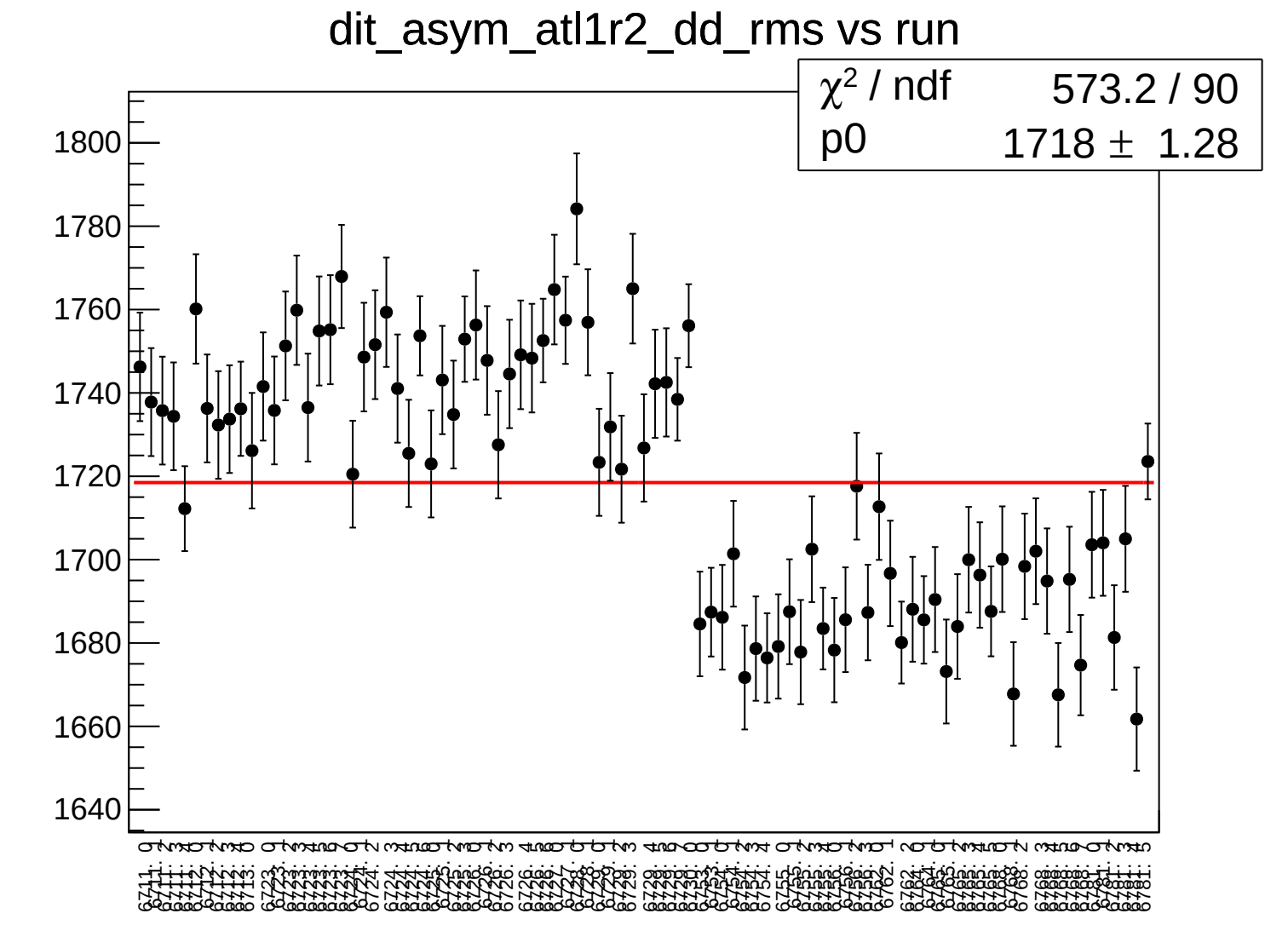

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 80.96 / 90
p0 917 ± 3607
100
50
0
−50
−100
pull
Entries 91
Mean −70.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

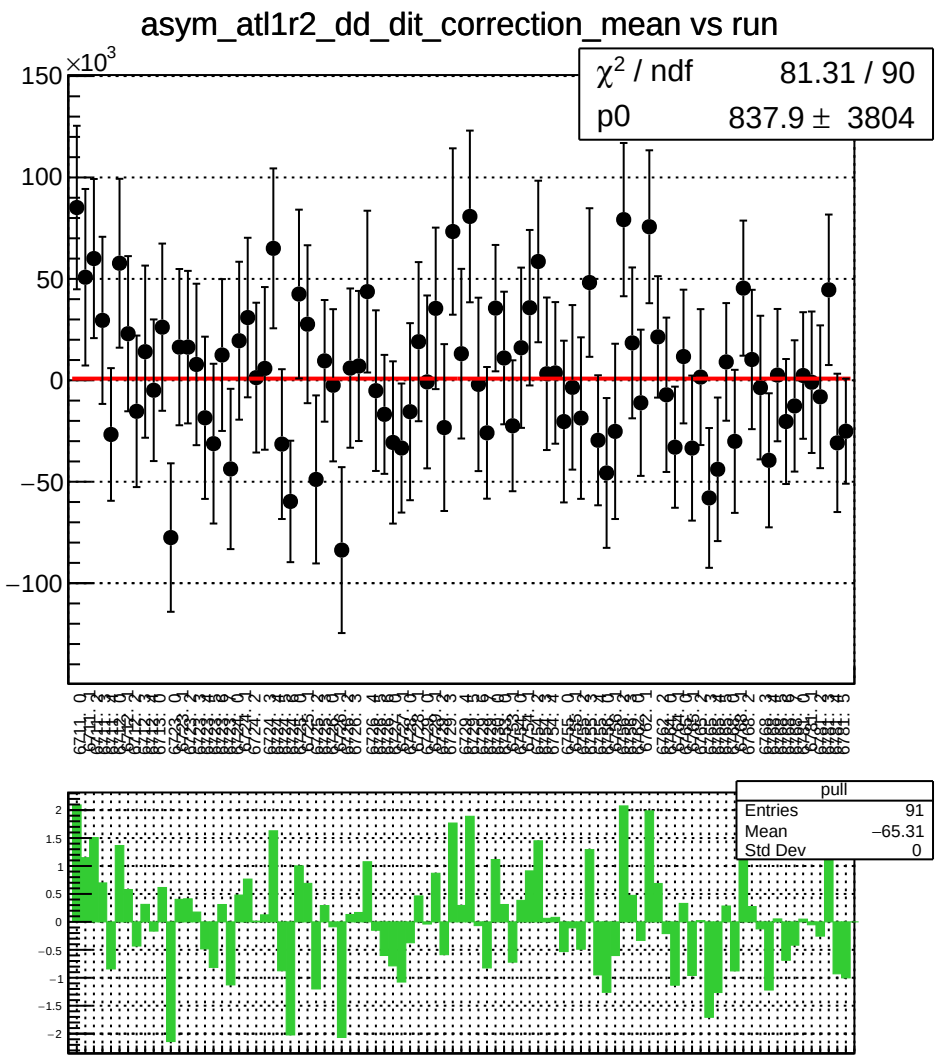

pull1D
Entries 91
Mean 0.0328
Std Dev 0.9427
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

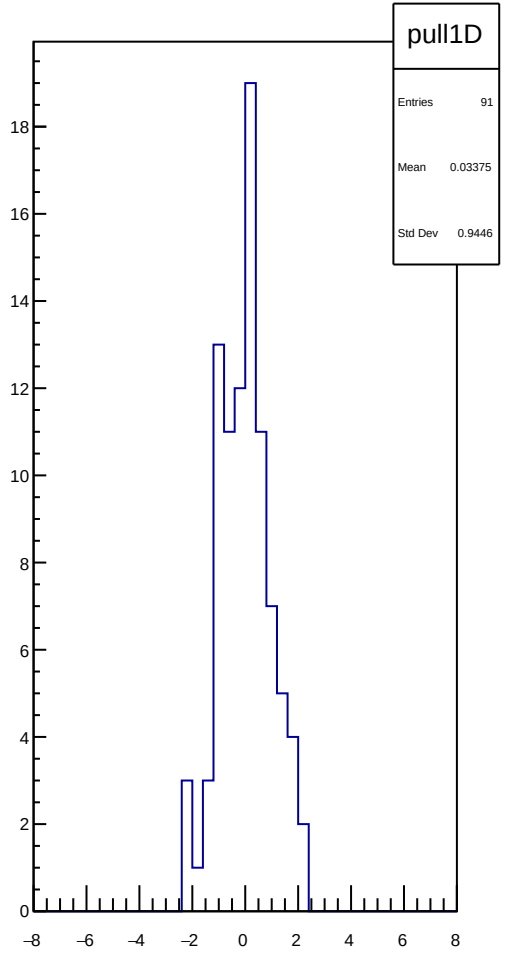

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.041e+04 / 90
p0 3416 ± 2.551
4000
3800
3600
3400
3200
3000
2800

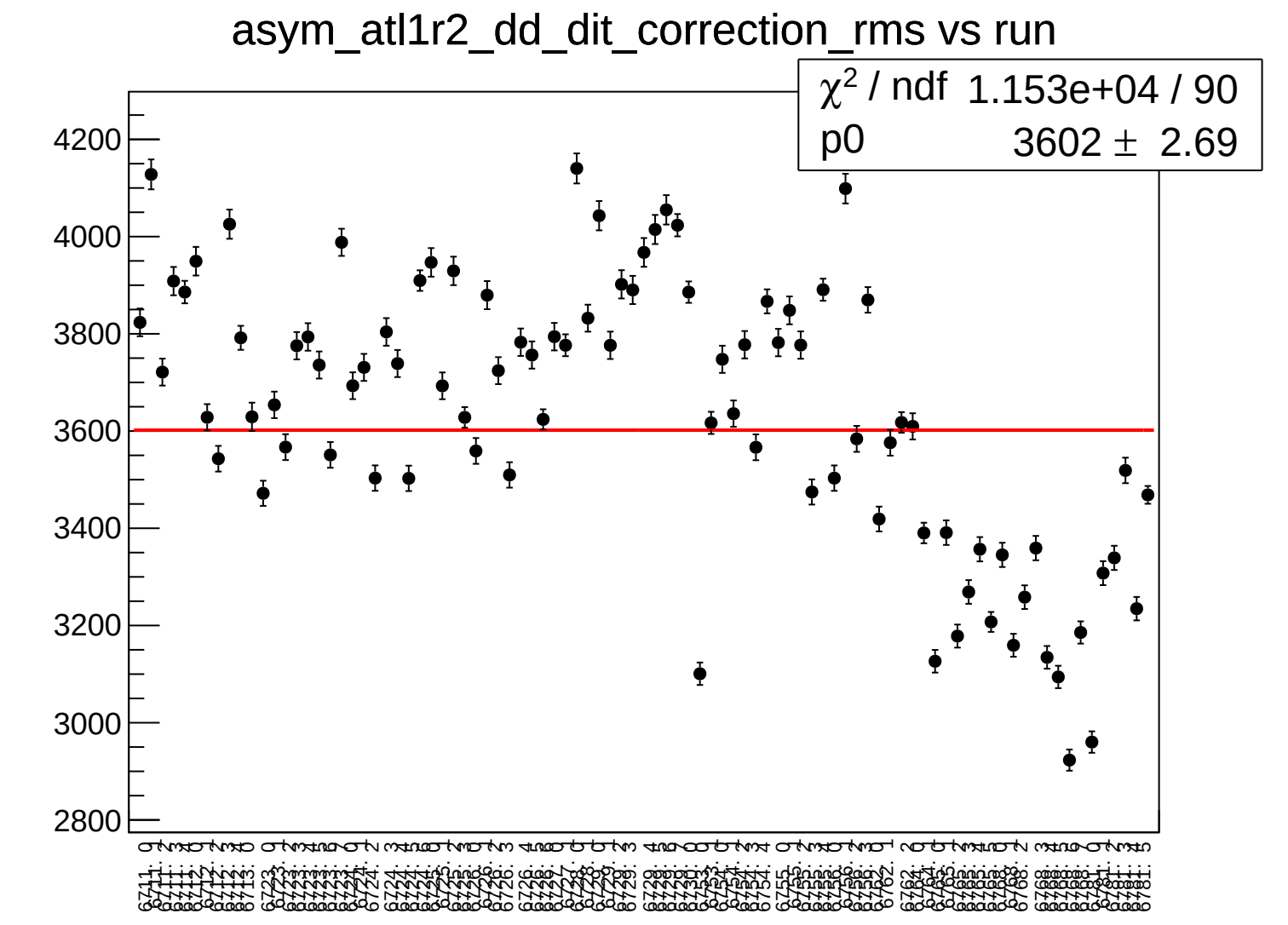

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 95.6 / 90
p0 1657 ± 1810
pull
Entries 91
Mean −514.1
Std Dev 0

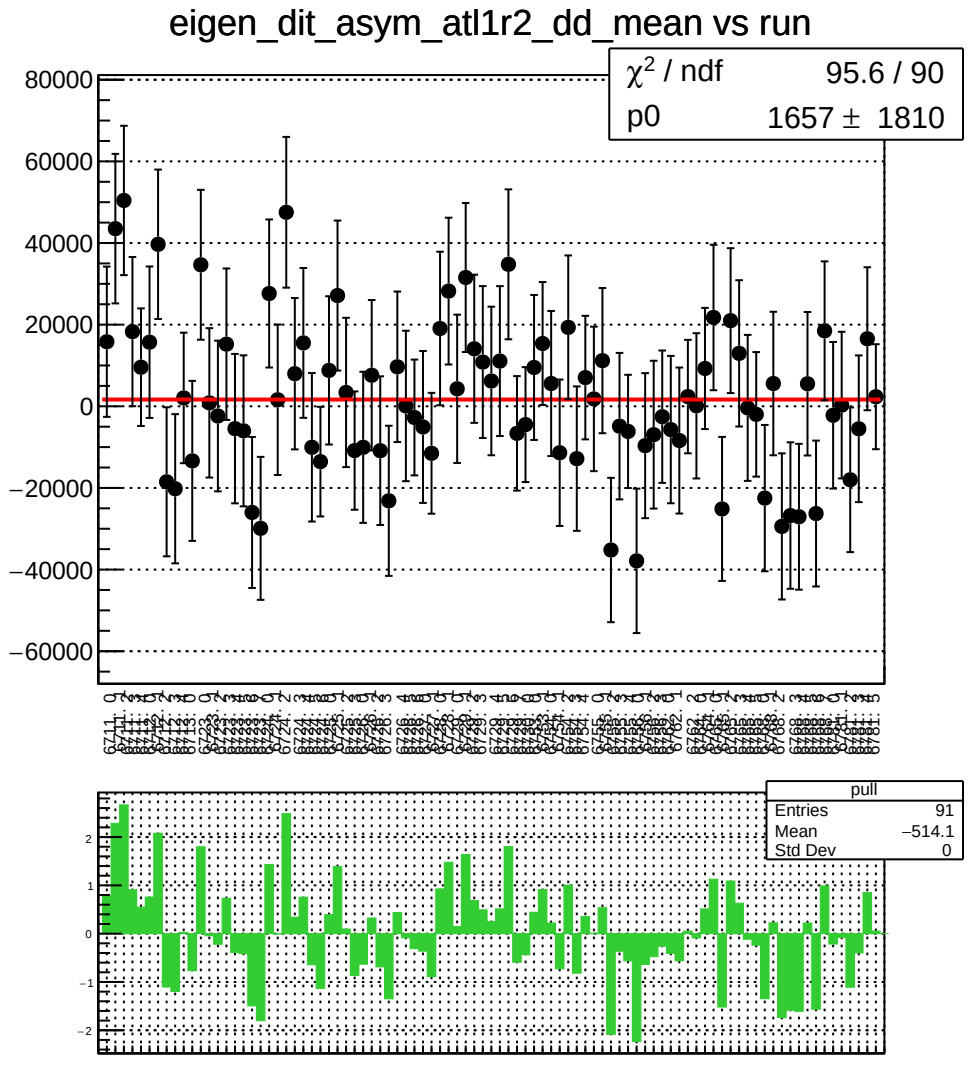

pull1D
Entries 91
Mean 0.01353
Std Dev 1.025

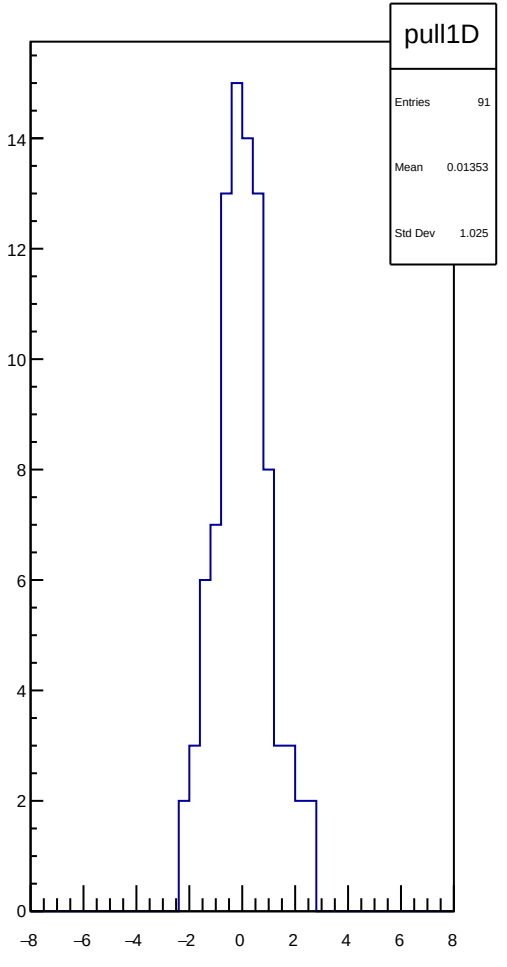

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 573.2 / 90
p0 1718 ± 1.28
1800
1780
1760
1740
1720
1700
1680
1660
1640

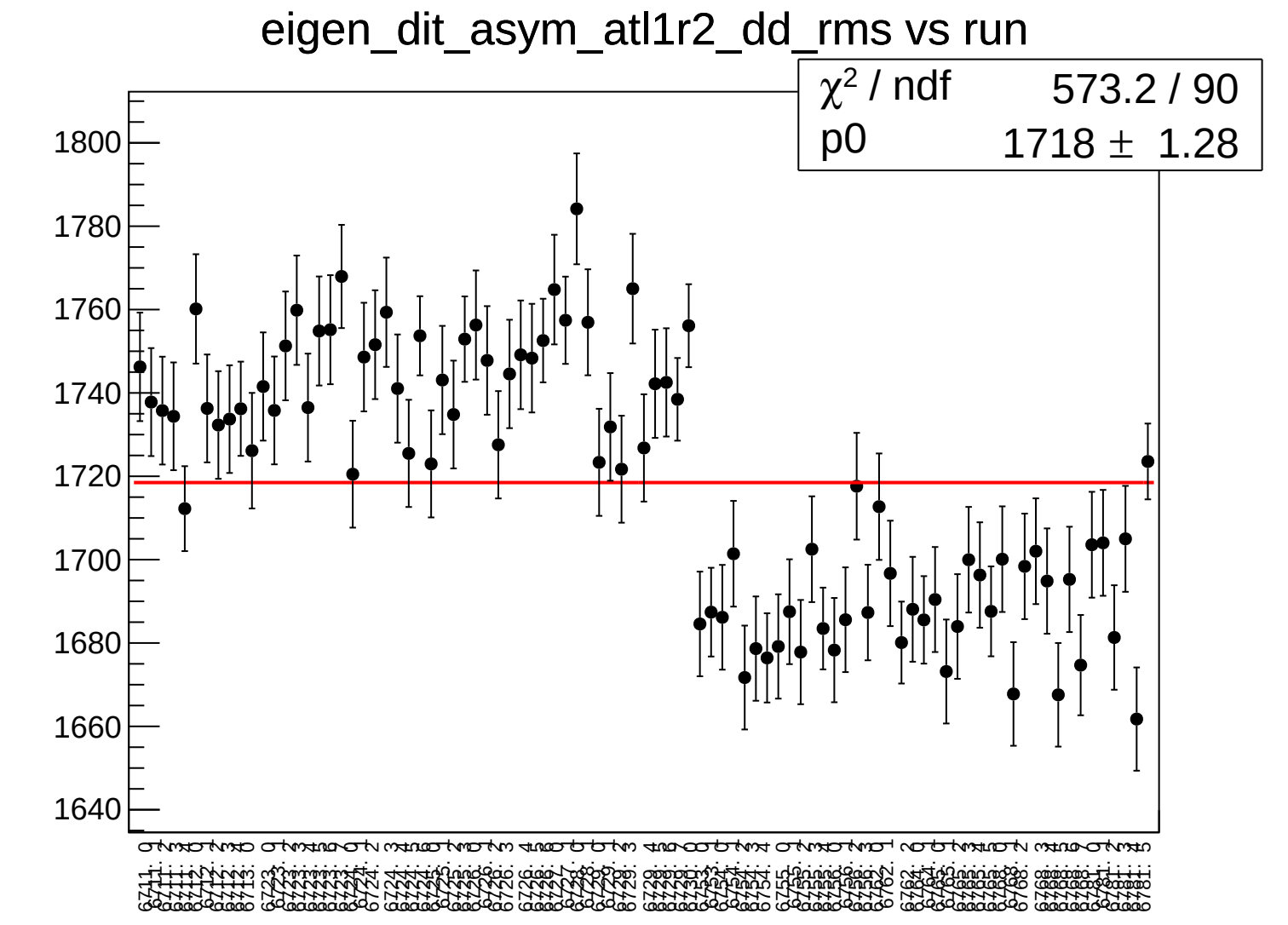

asym_atl1r2_dd_dit_correction_mean vs run
χ² / ndf 81.31 / 90
p0 837.9 ± 3804
×10³
150
100
50
0
−50
−100
pull
Entries 91
Mean −65.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

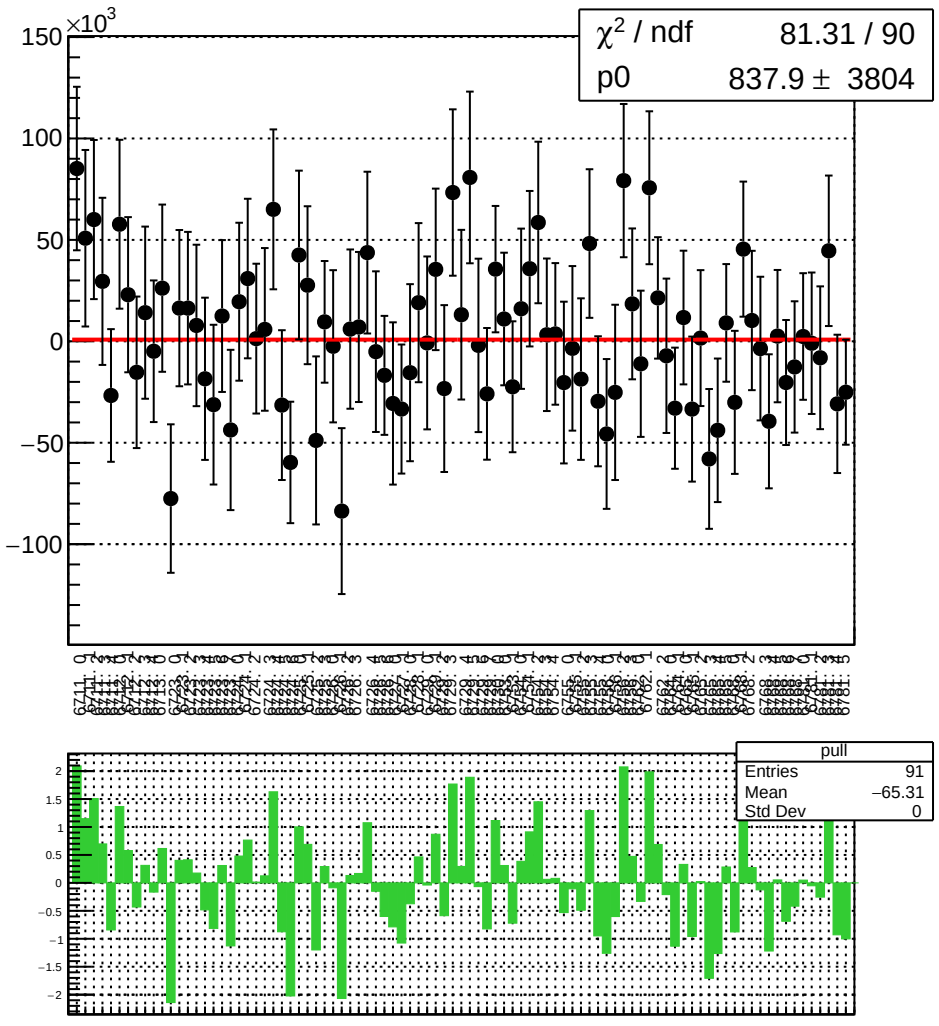

pull1D
Entries 91
Mean 0.03375
Std Dev 0.9446
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

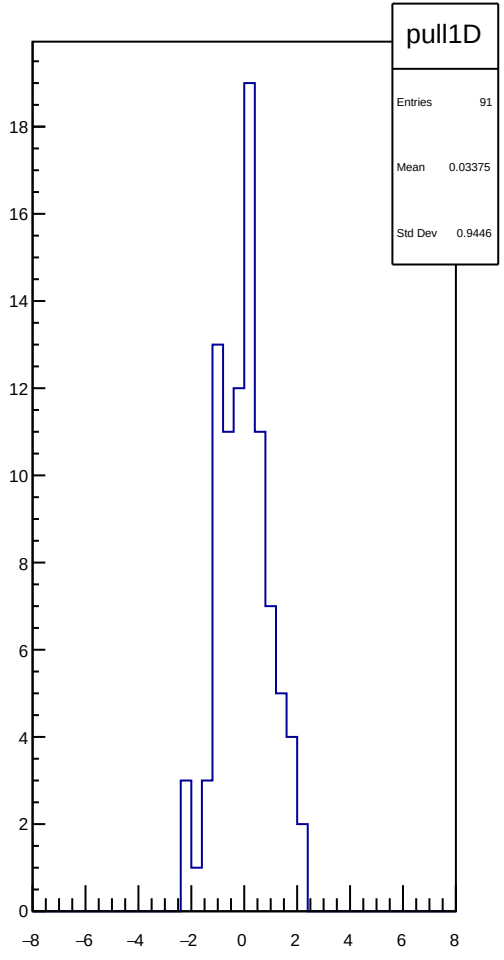

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 1.153e+04 / 90
p0 3602 ± 2.69
4200
4000
3800
3600
3400
3200
3000
2800

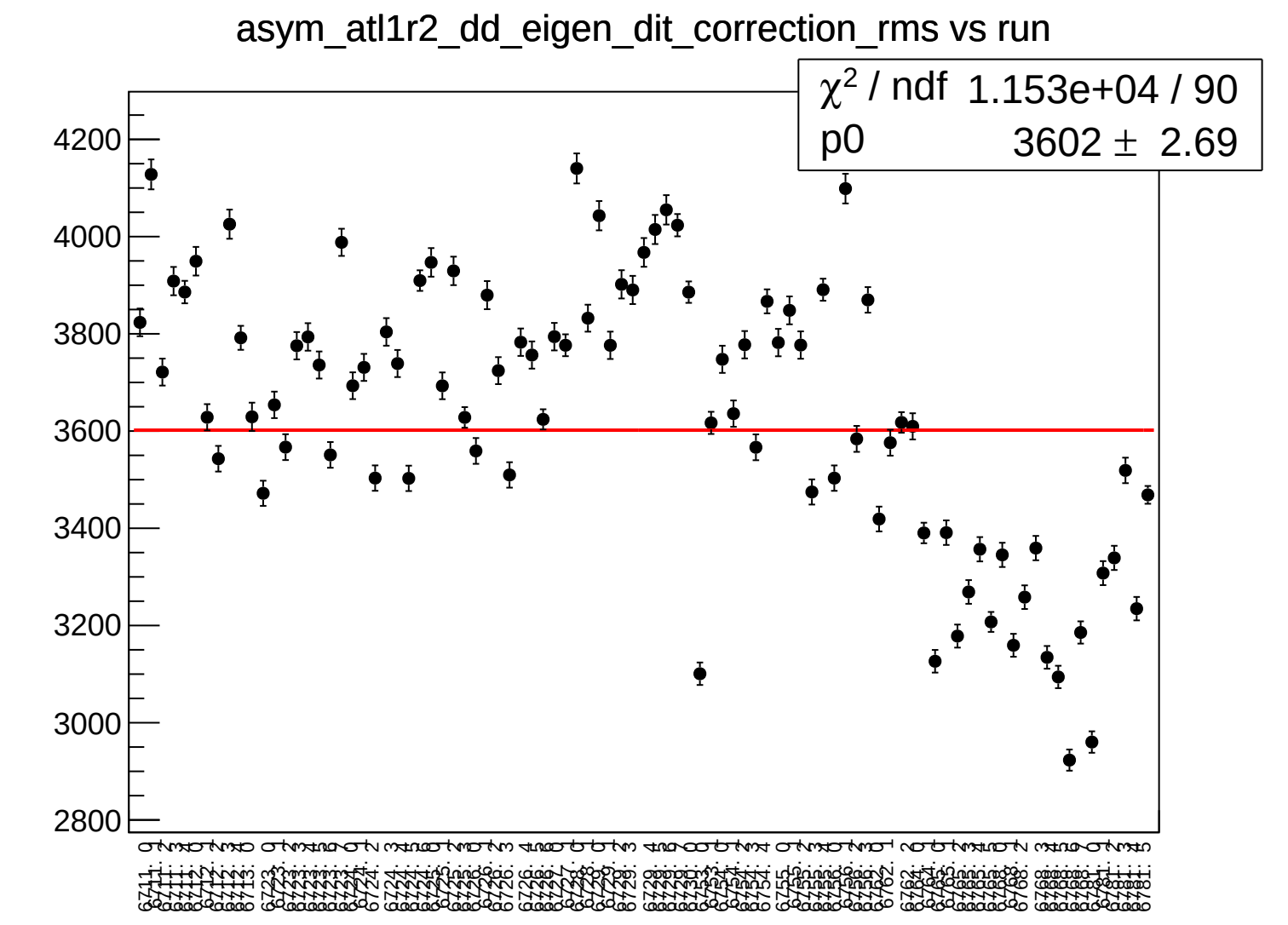

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 95.6 / 90
p0 1657 ± 1810
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −514.1
Std Dev 0
2
1
0
−1
−2

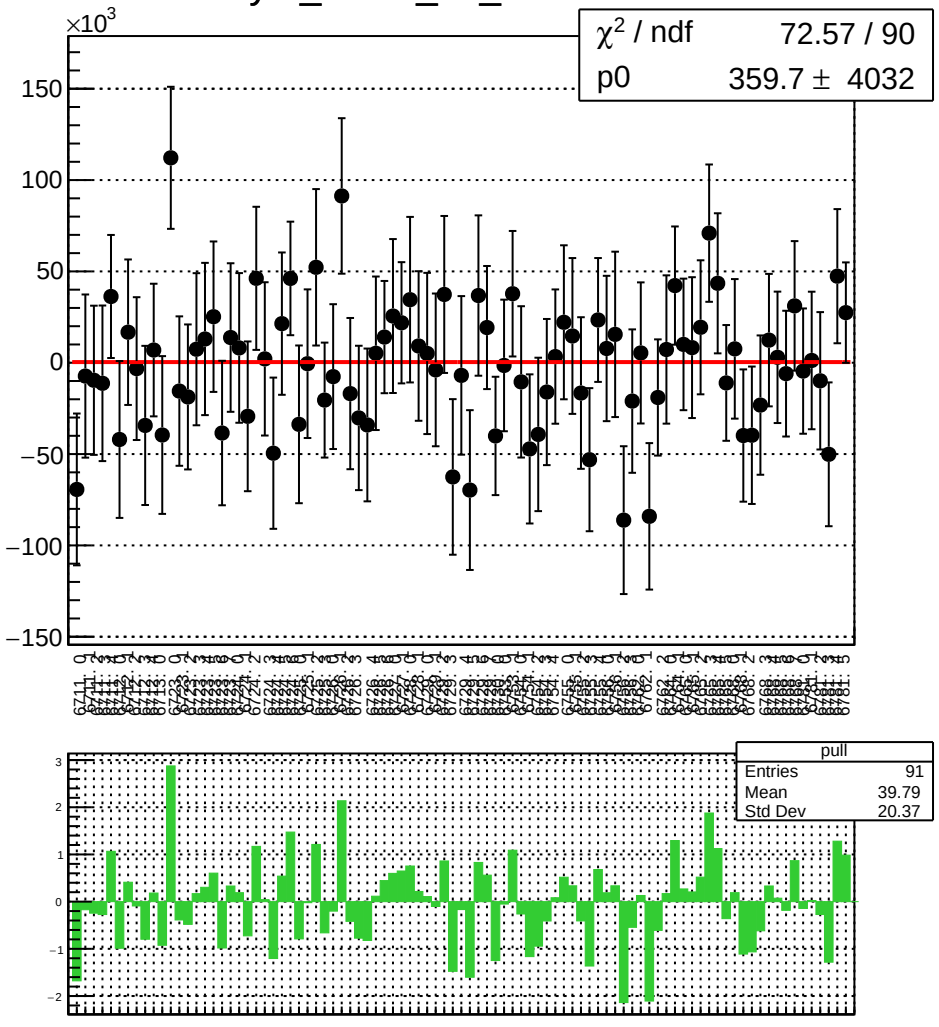

pull1D
Entries 91
Mean 0.01353
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

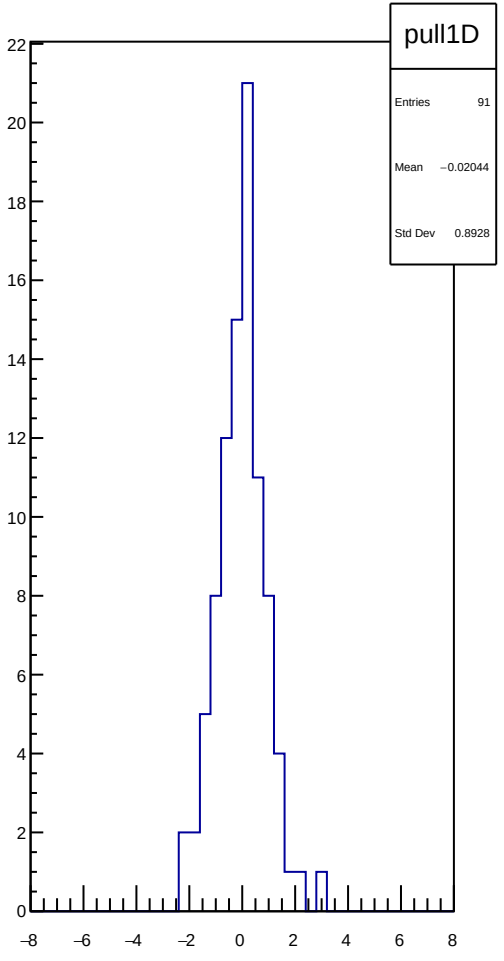

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 573.2 / 90
p0 1718 ± 1.28
1800
1780
1760
1740
1720
1700
1680
1660
1640

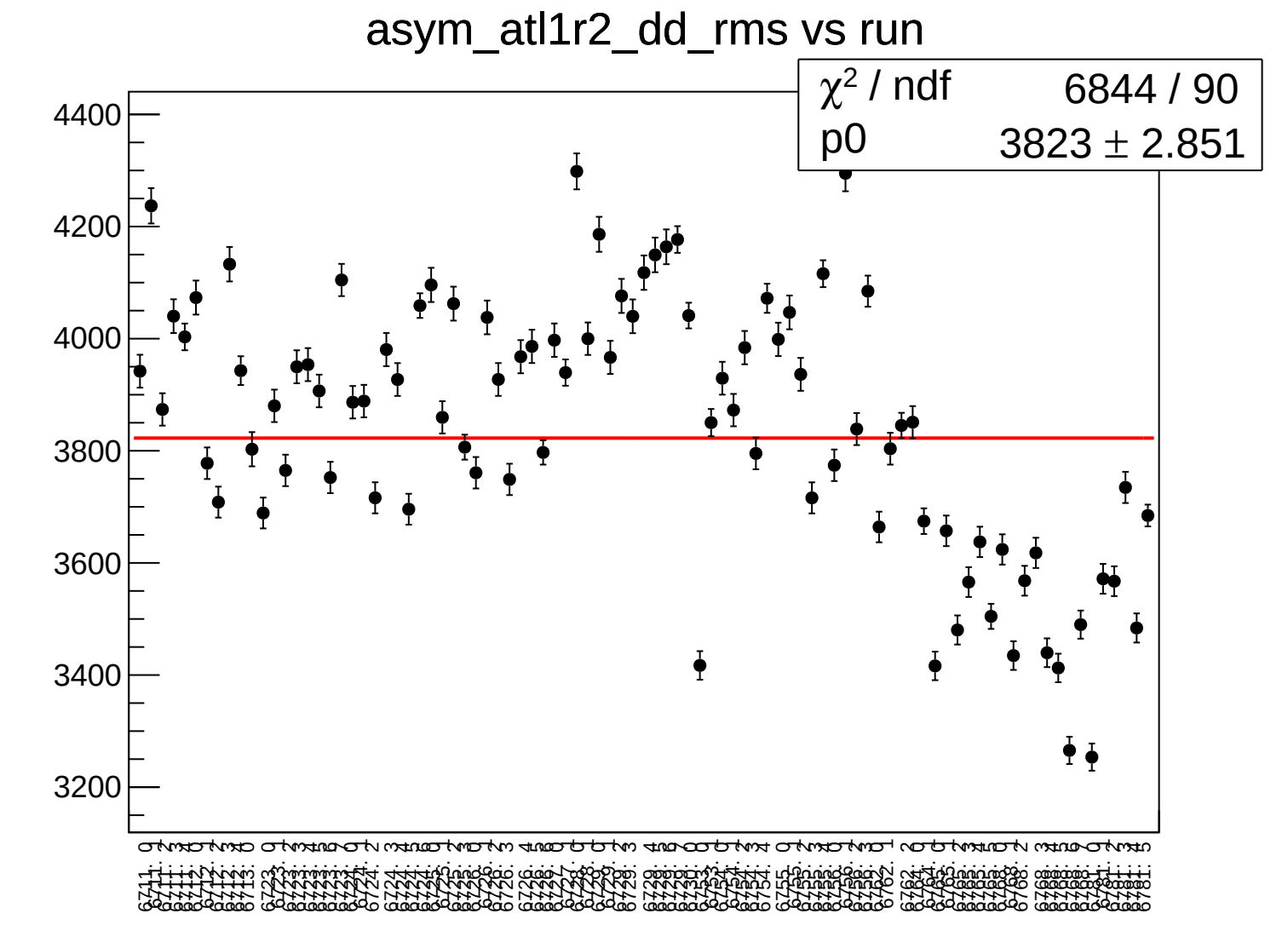

asym_atl1r2_dd_eigen_dit_correction_mean vs run
χ² / ndf 81.31 / 90
p0 837.9 ± 3804
×10³
150
100
50
0
−50
−100
pull
Entries 91
Mean −65.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

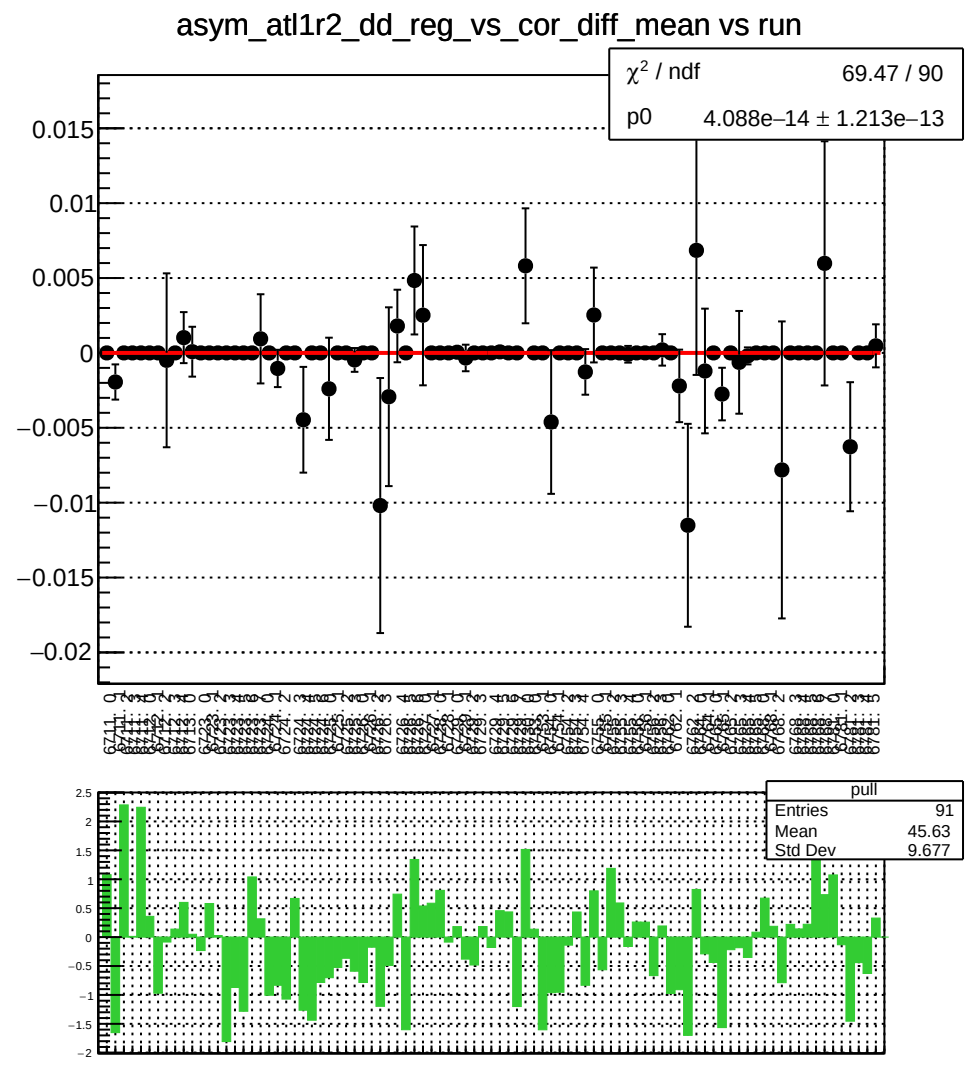

pull1D
Entries 91
Mean 0.03375
Std Dev 0.9446
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

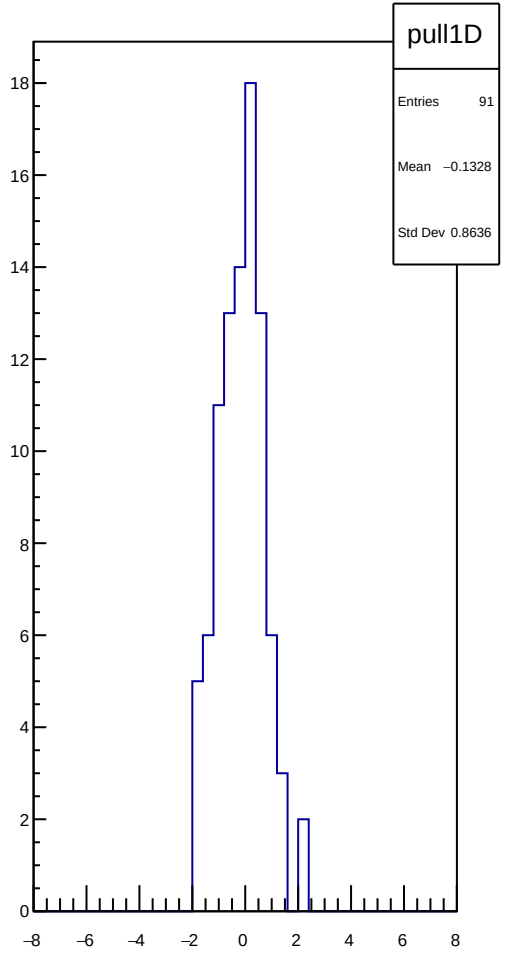

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.153e+04 / 90
p0 3602 ± 2.69
4200
4000
3800
3600
3400
3200
3000
2800

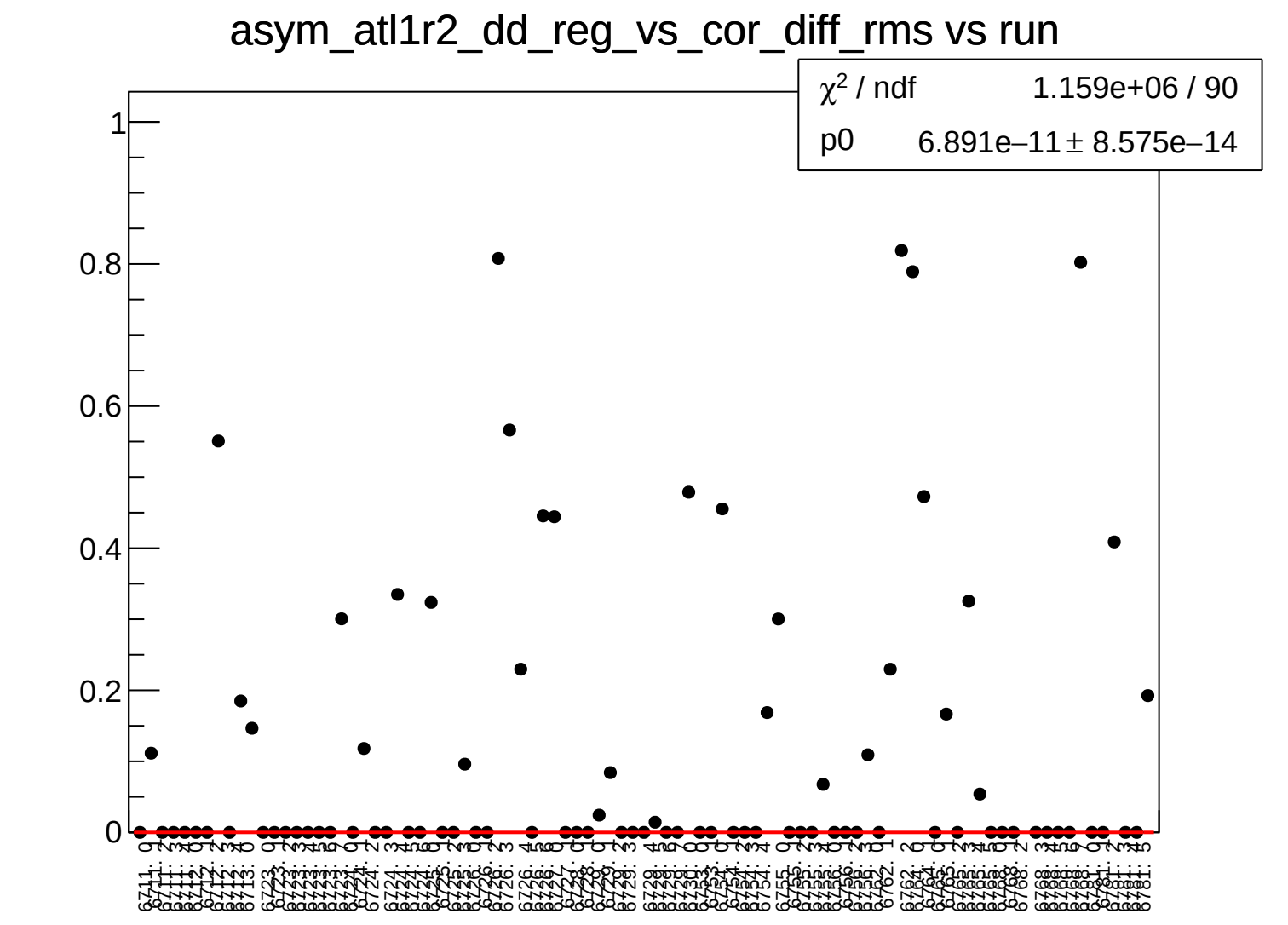

asym_atl1r2_dd_mean vs run
χ² / ndf 72.57 / 90
p0 359.7 ± 4032
×10³
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean 39.79
Std Dev 20.37
3
2
1
0
−1
−2

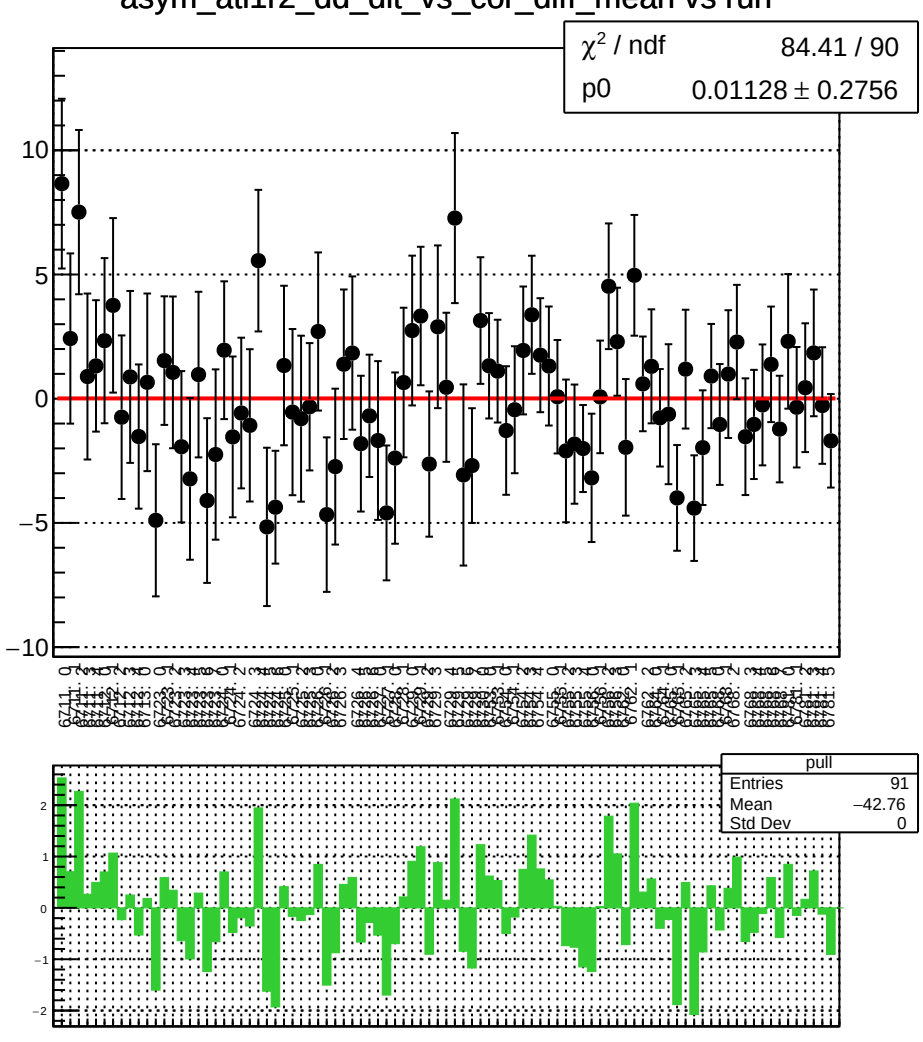

pull1D
Entries 91
Mean −0.02044
Std Dev 0.8928
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

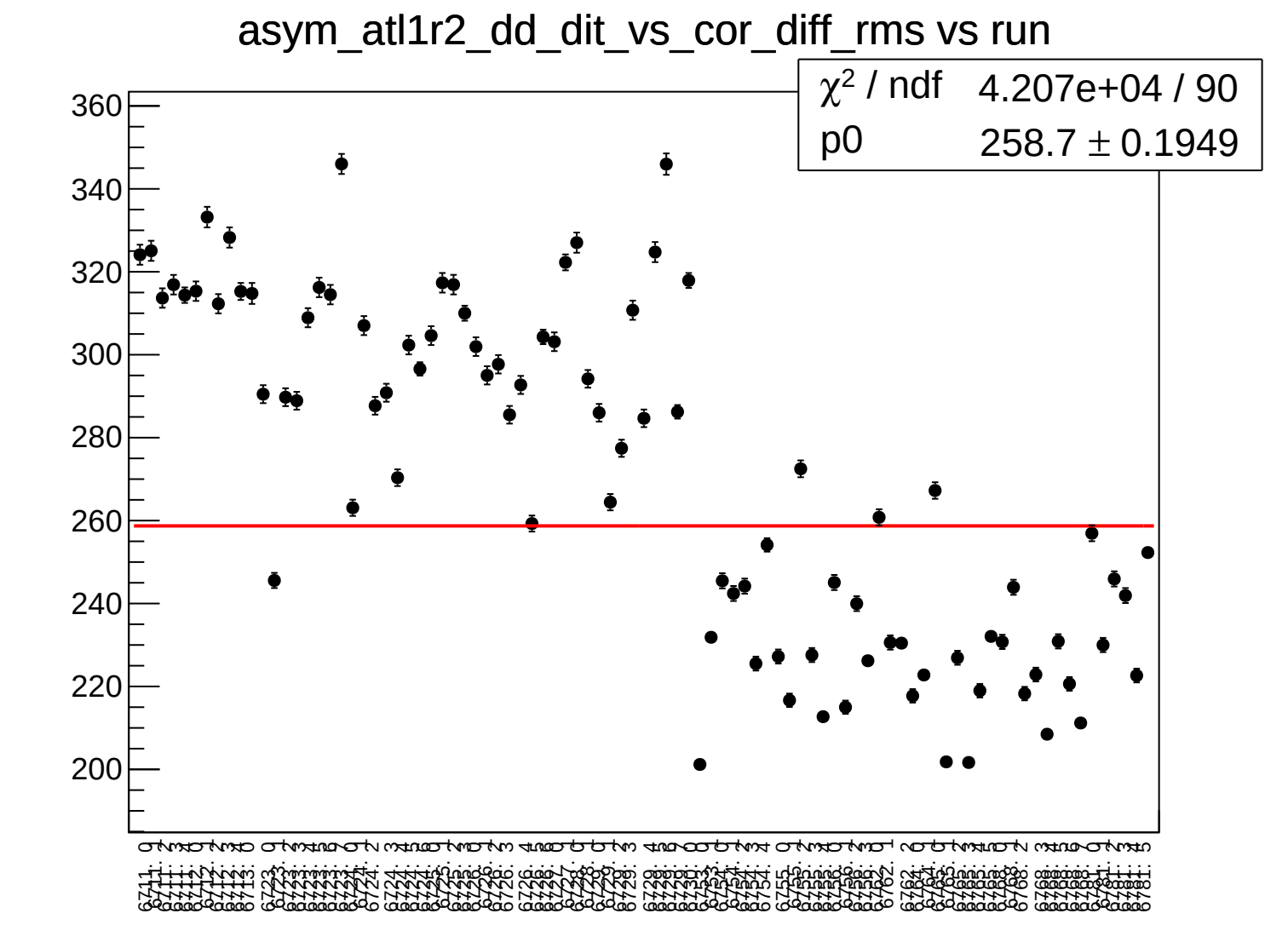

asym_atl1r2_dd_rms vs run
χ² / ndf 6844 / 90
p0 3823 ± 2.851
4400
4200
4000
3800
3600
3400
3200

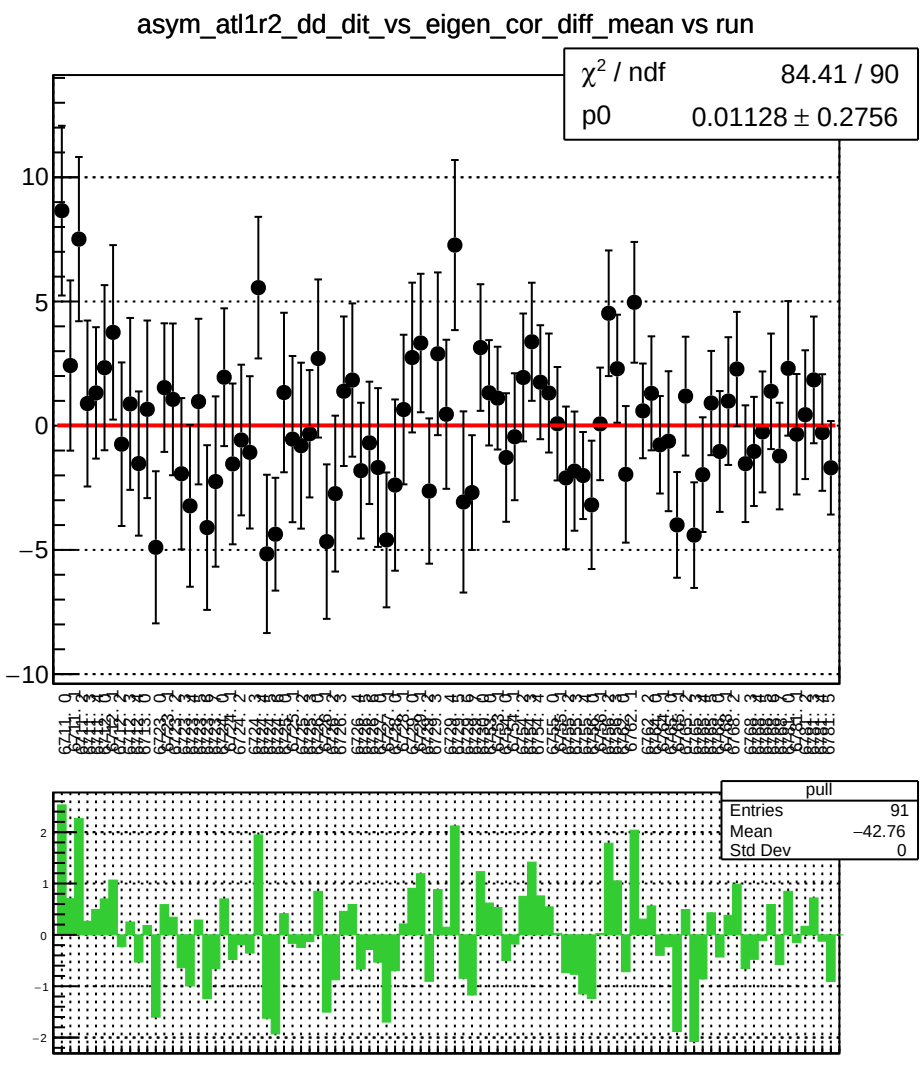

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 69.47 / 90
p0 4.088e−14 ± 1.213e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 91
Mean 45.63
Std Dev 9.677
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

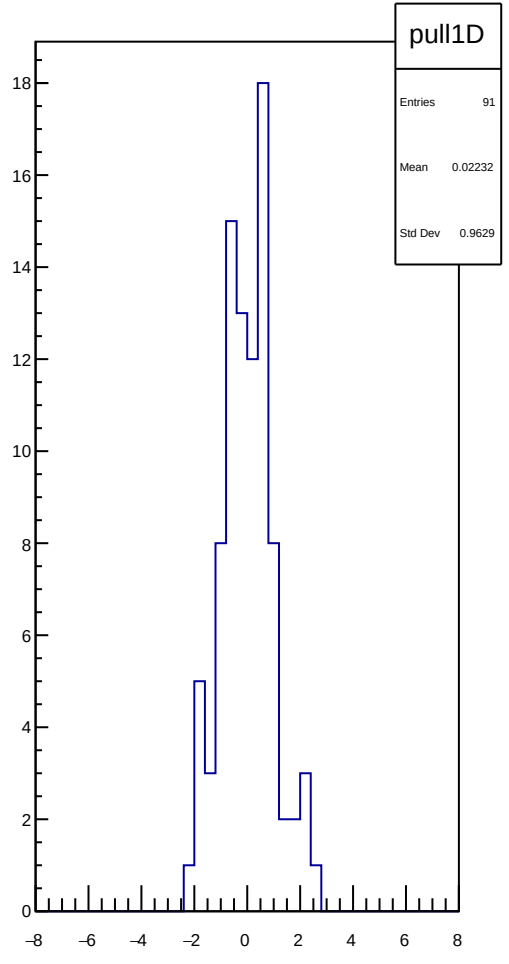

pull1D
Entries 91
Mean −0.1328
Std Dev 0.8636
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

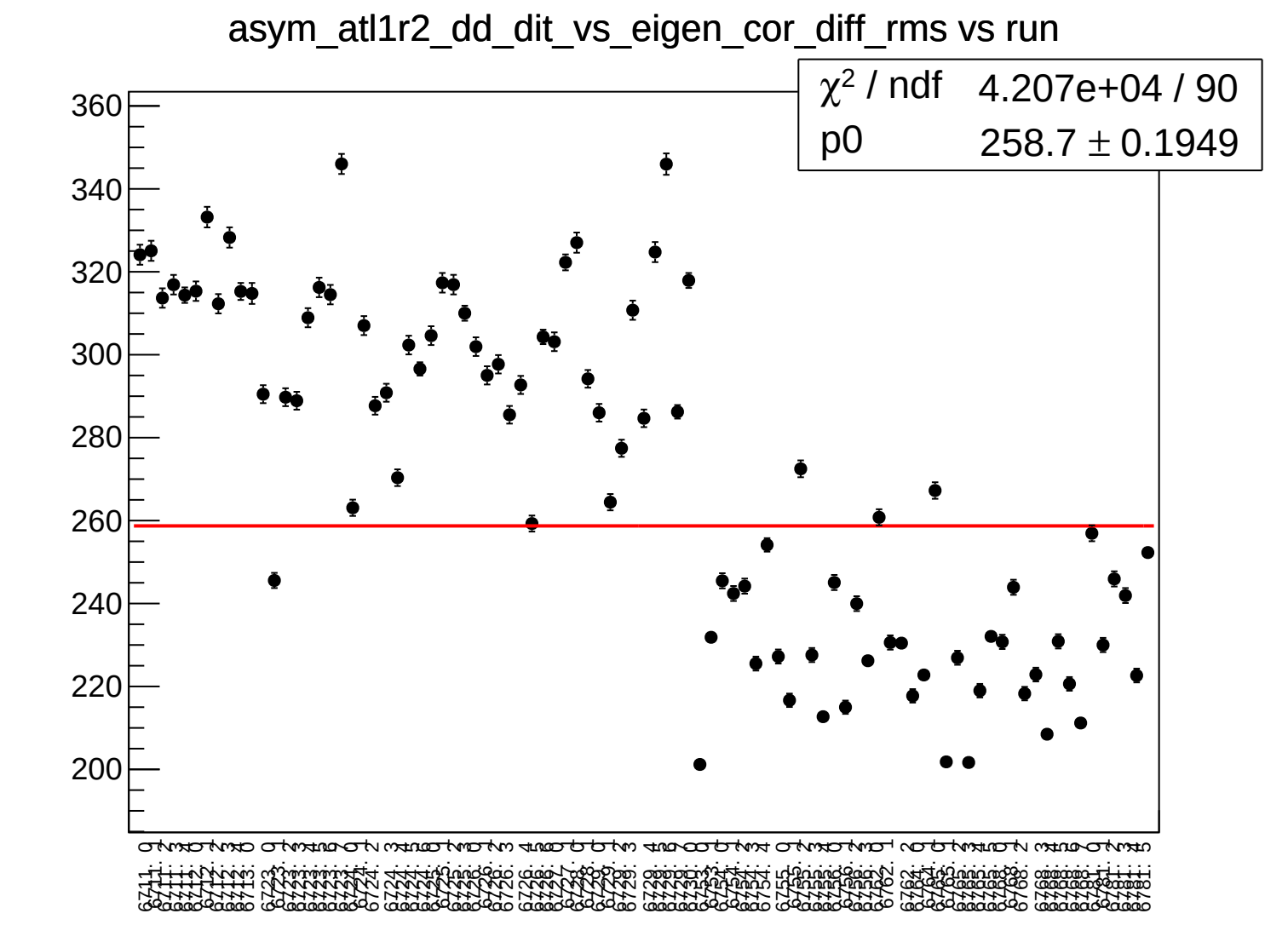

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.159e+06 / 90
p0 6.891e−11 ± 8.575e−14
1
0.8
0.6
0.4
0.2
0

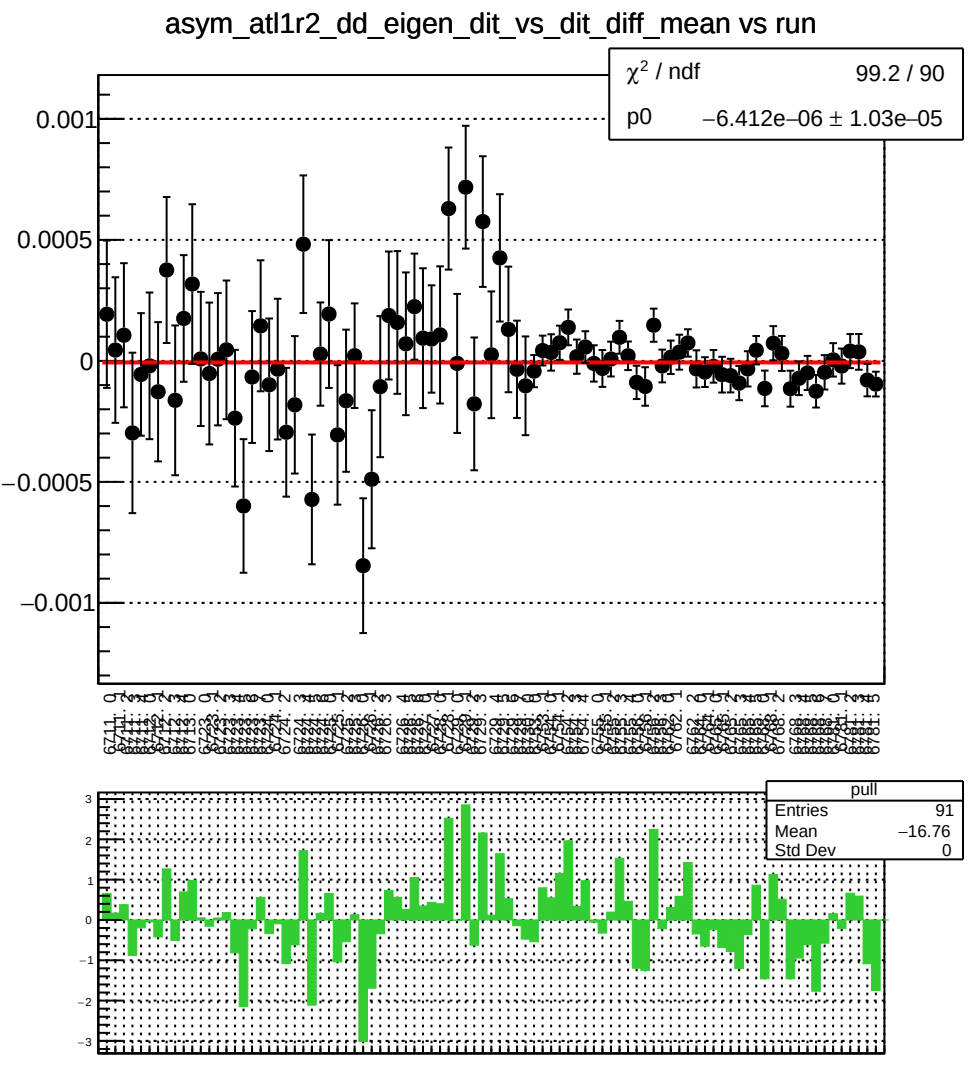

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.41 / 90
p0 0.01128 ± 0.2756
pull
Entries 91
Mean −42.76
Std Dev 0
pull1D
Entries 91
Mean 0.02232
Std Dev 0.9629

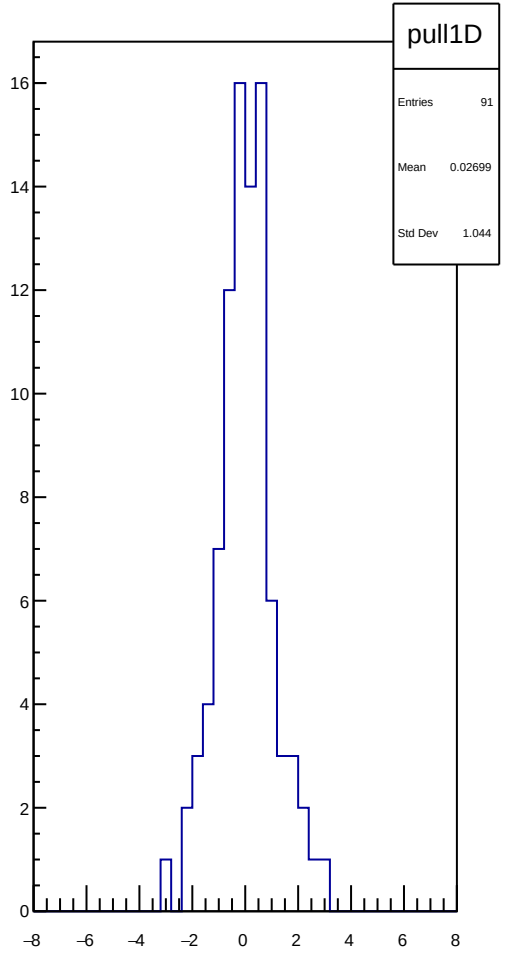

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.207e+04 / 90
p0 258.7 ± 0.1949
360
340
320
300
280
260
240
220
200

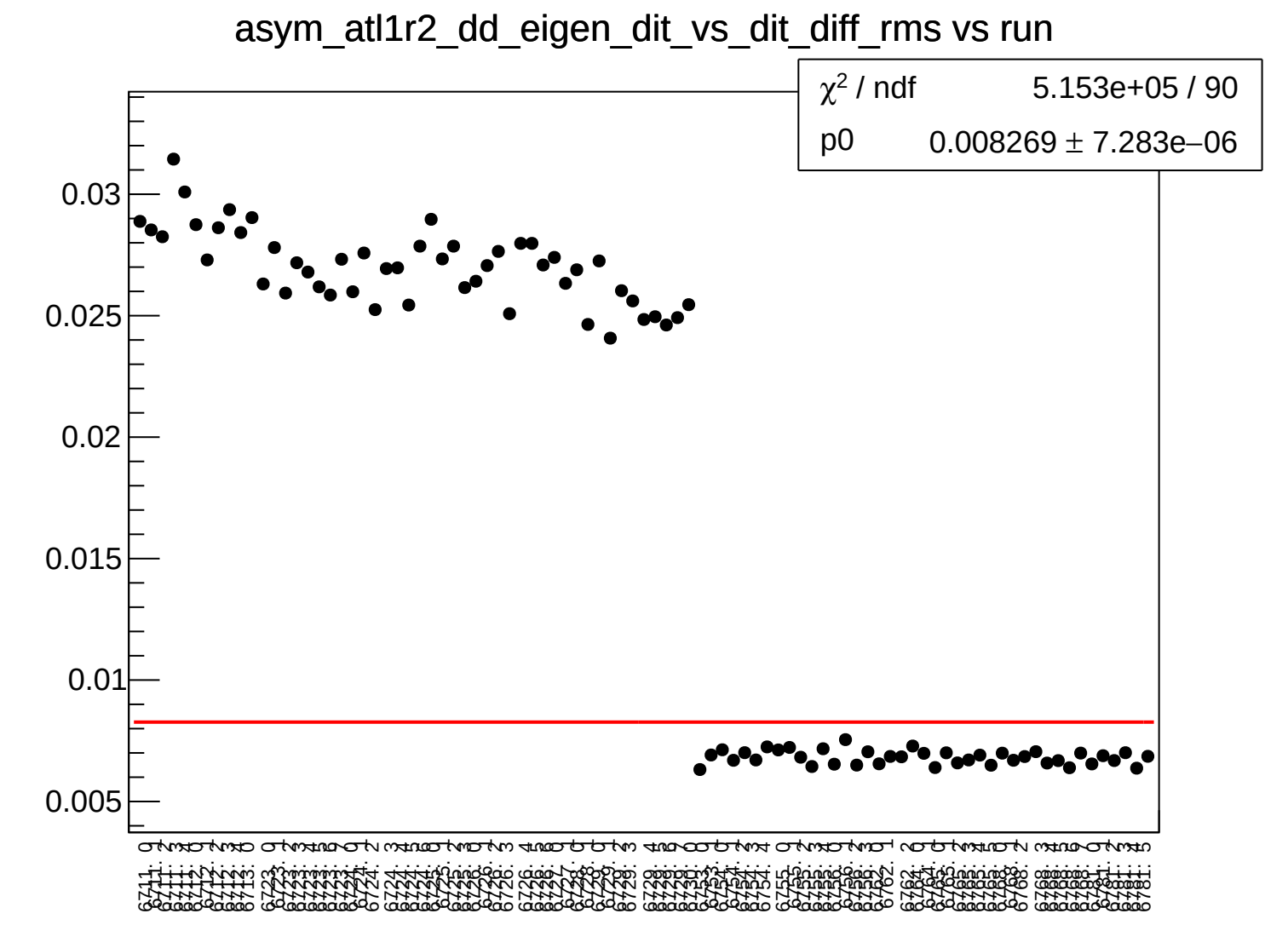

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.41 / 90
p0 0.01128 ± 0.2756
pull
Entries 91
Mean −42.76
Std Dev 0

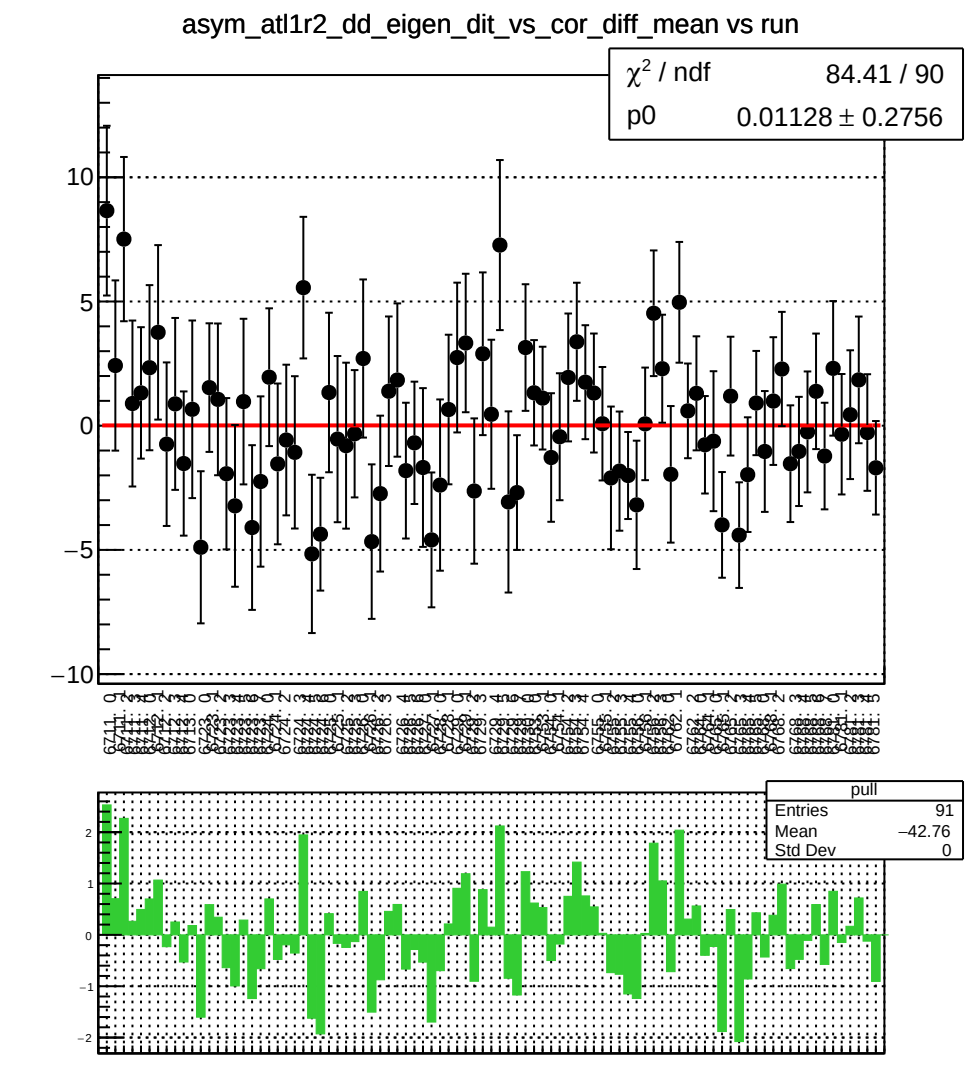

pull1D
Entries 91
Mean 0.02232
Std Dev 0.9629

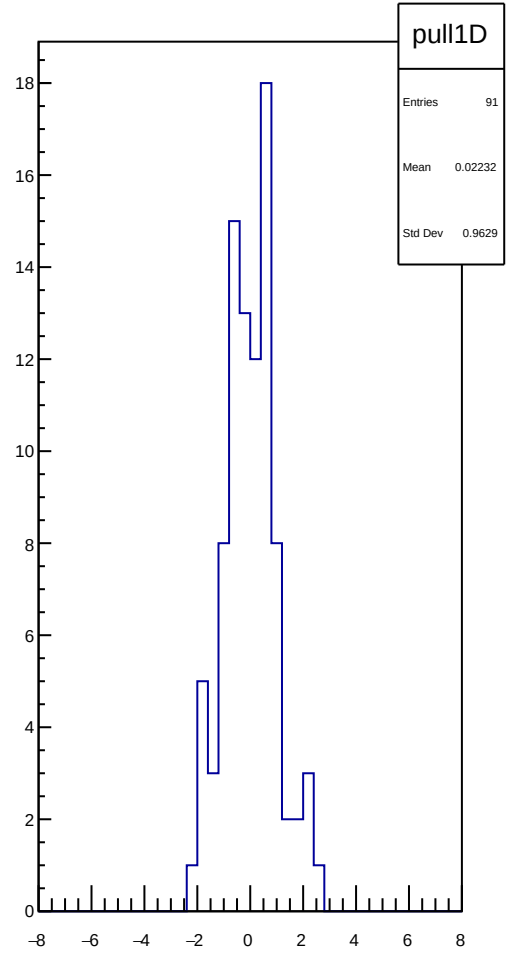

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.207e+04 / 90
p0 258.7 ± 0.1949
360
340
320
300
280
260
240
220
200

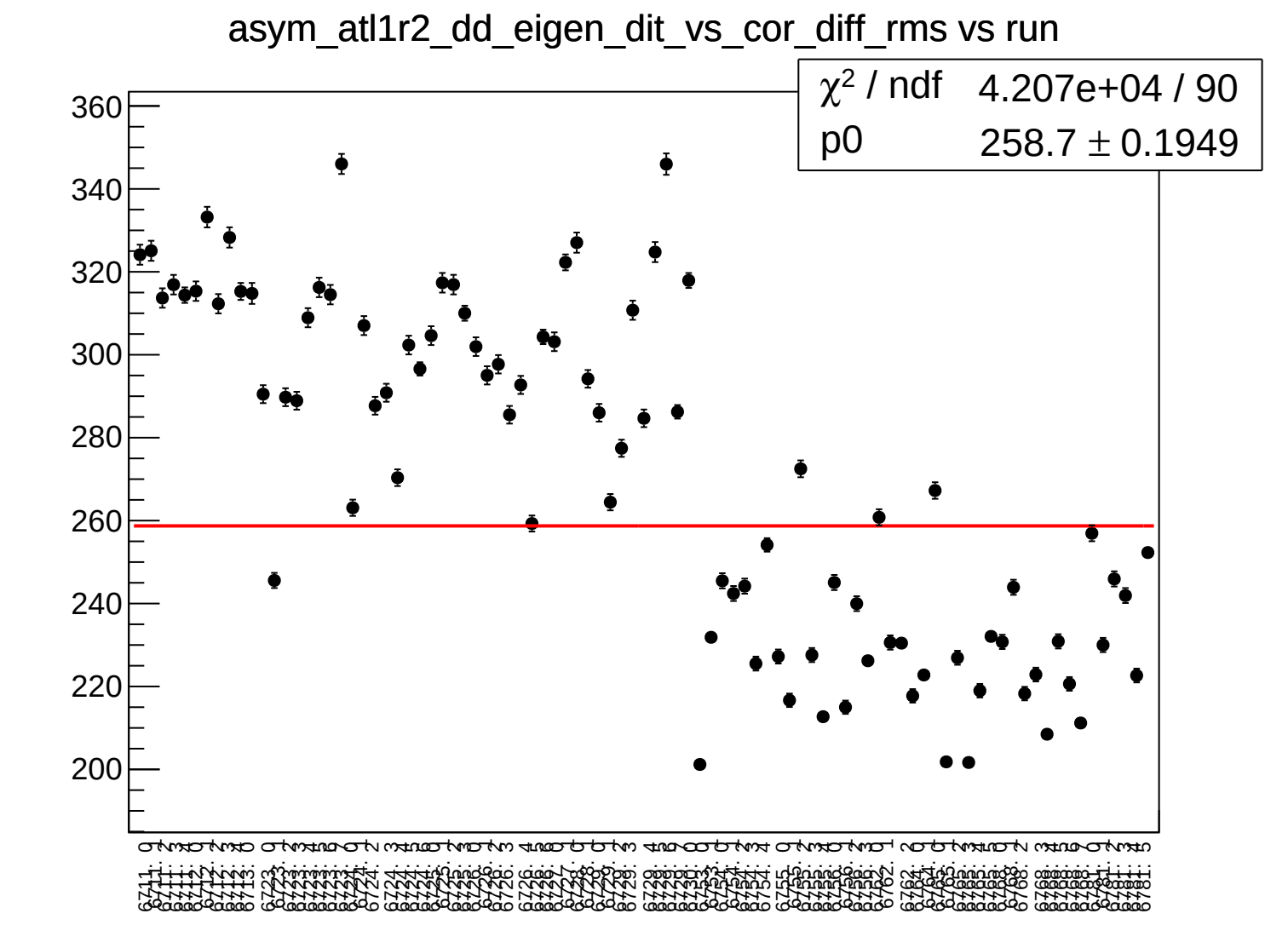

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 99.2 / 90
p0 −6.412e−06 ± 1.03e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean −16.76
Std Dev 0
3
2
1
0
−1
−2
−3

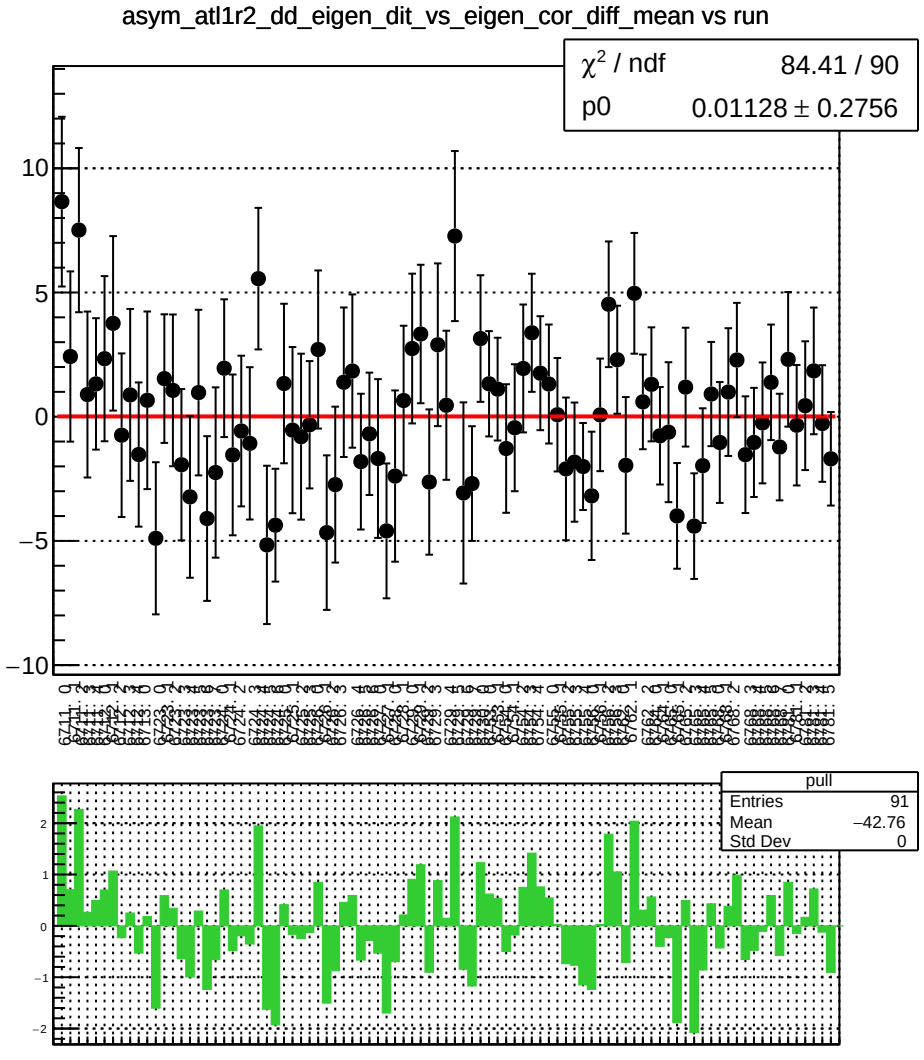

pull1D
Entries 91
Mean 0.02699
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

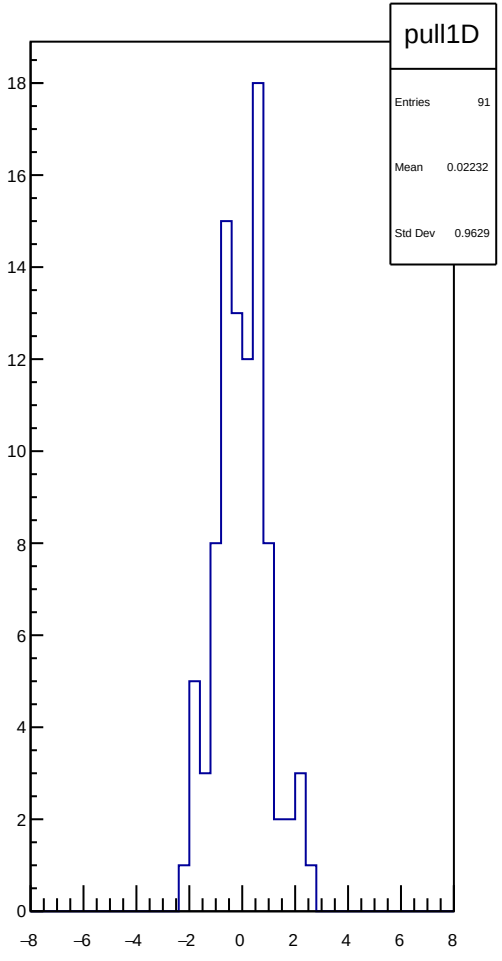

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.153e+05 / 90
p0 0.008269 ± 7.283e−06
0.03
0.025
0.02
0.015
0.01
0.005

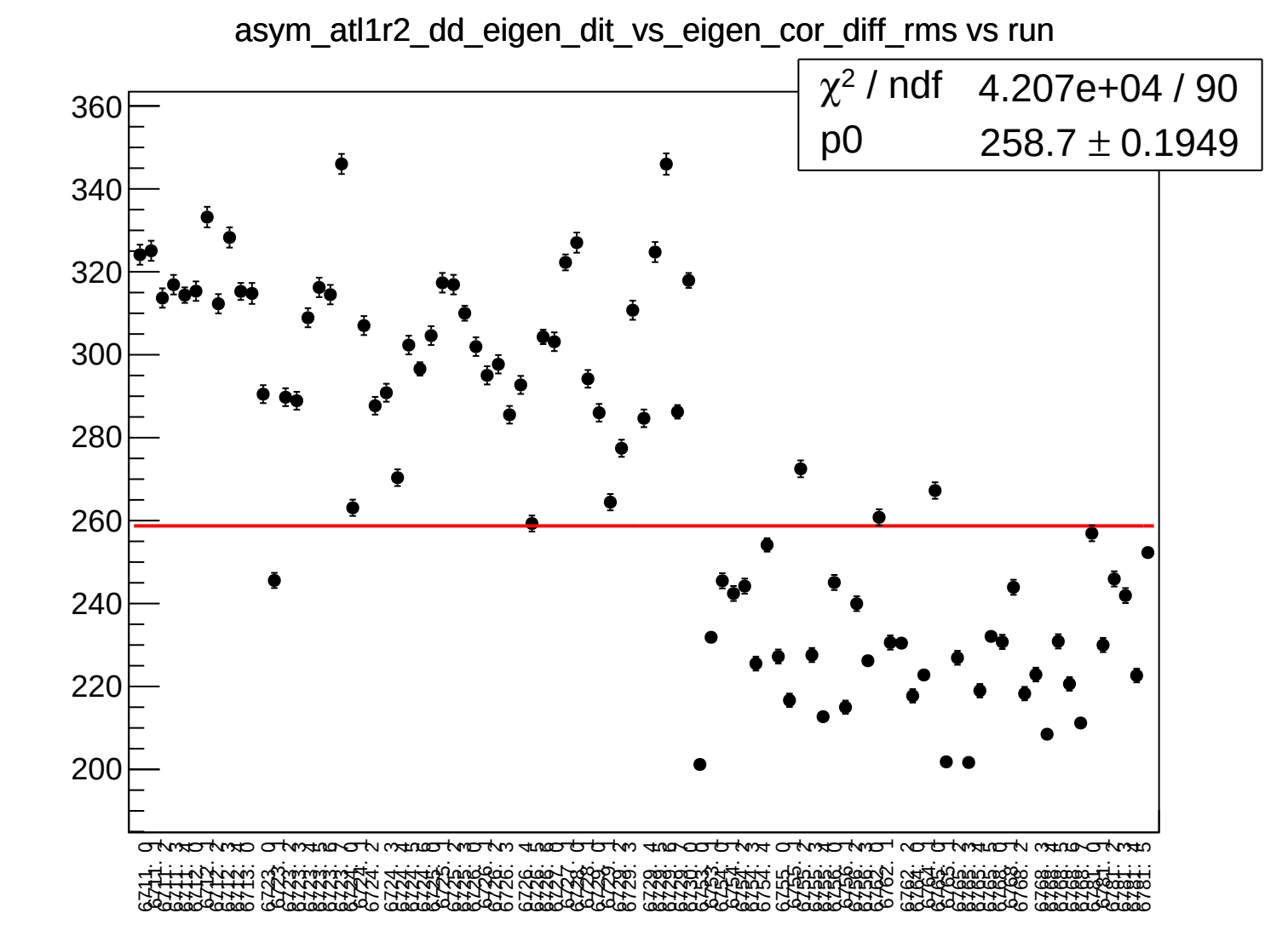

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.41 / 90
p0 0.01128 ± 0.2756
pull
Entries 91
Mean −42.76
Std Dev 0

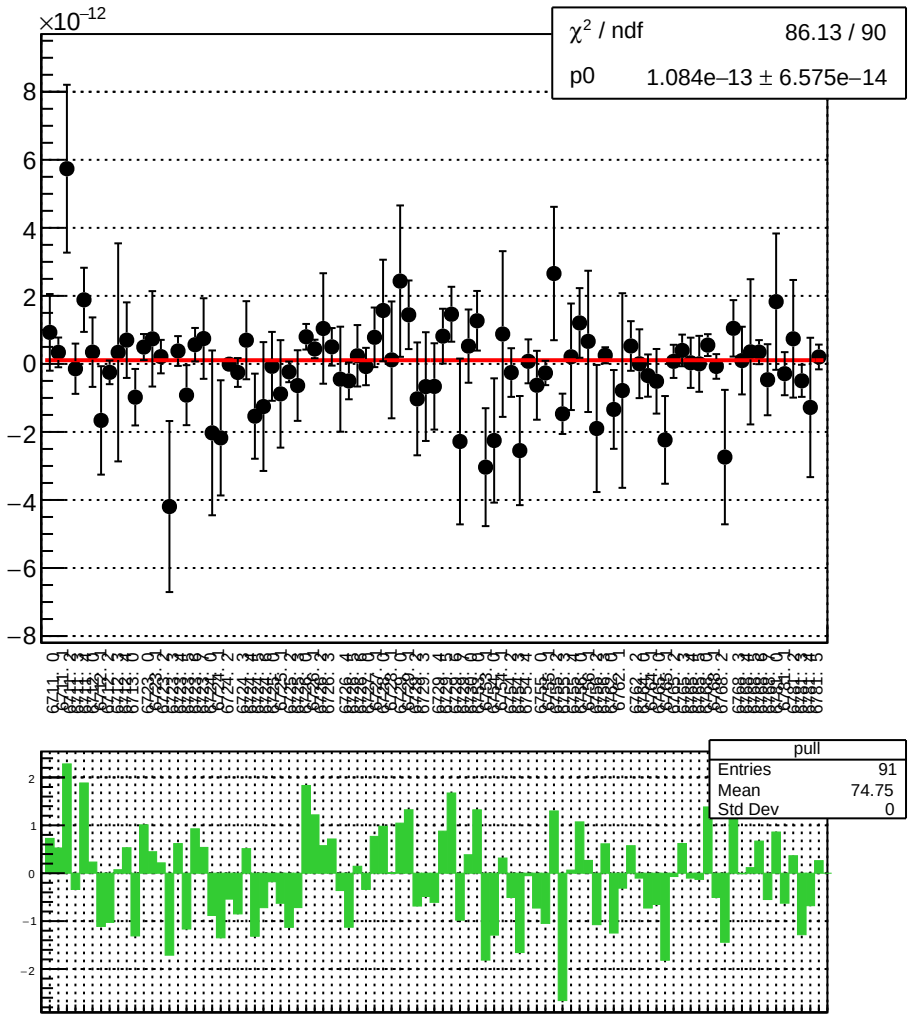

pull1D
Entries 91
Mean 0.02232
Std Dev 0.9629

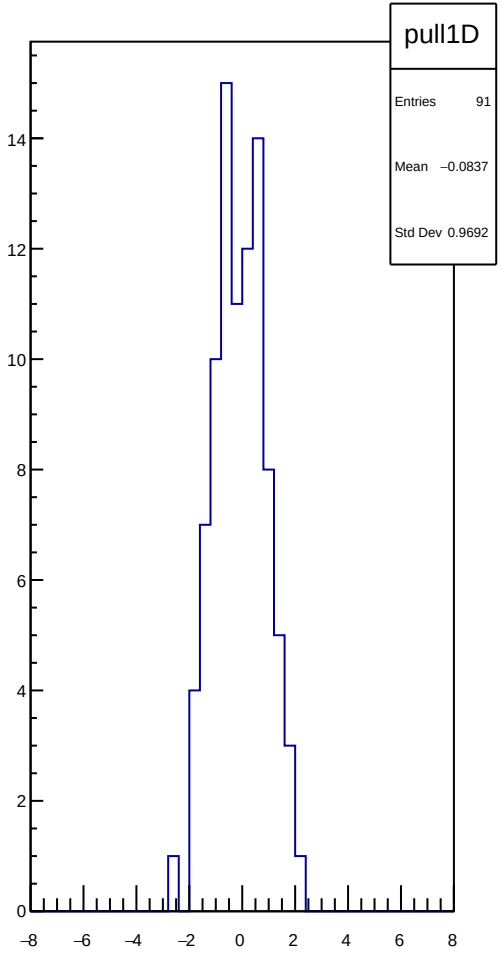

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.207e+04 / 90
p0 258.7 ± 0.1949
360
340
320
300
280
260
240
220
200

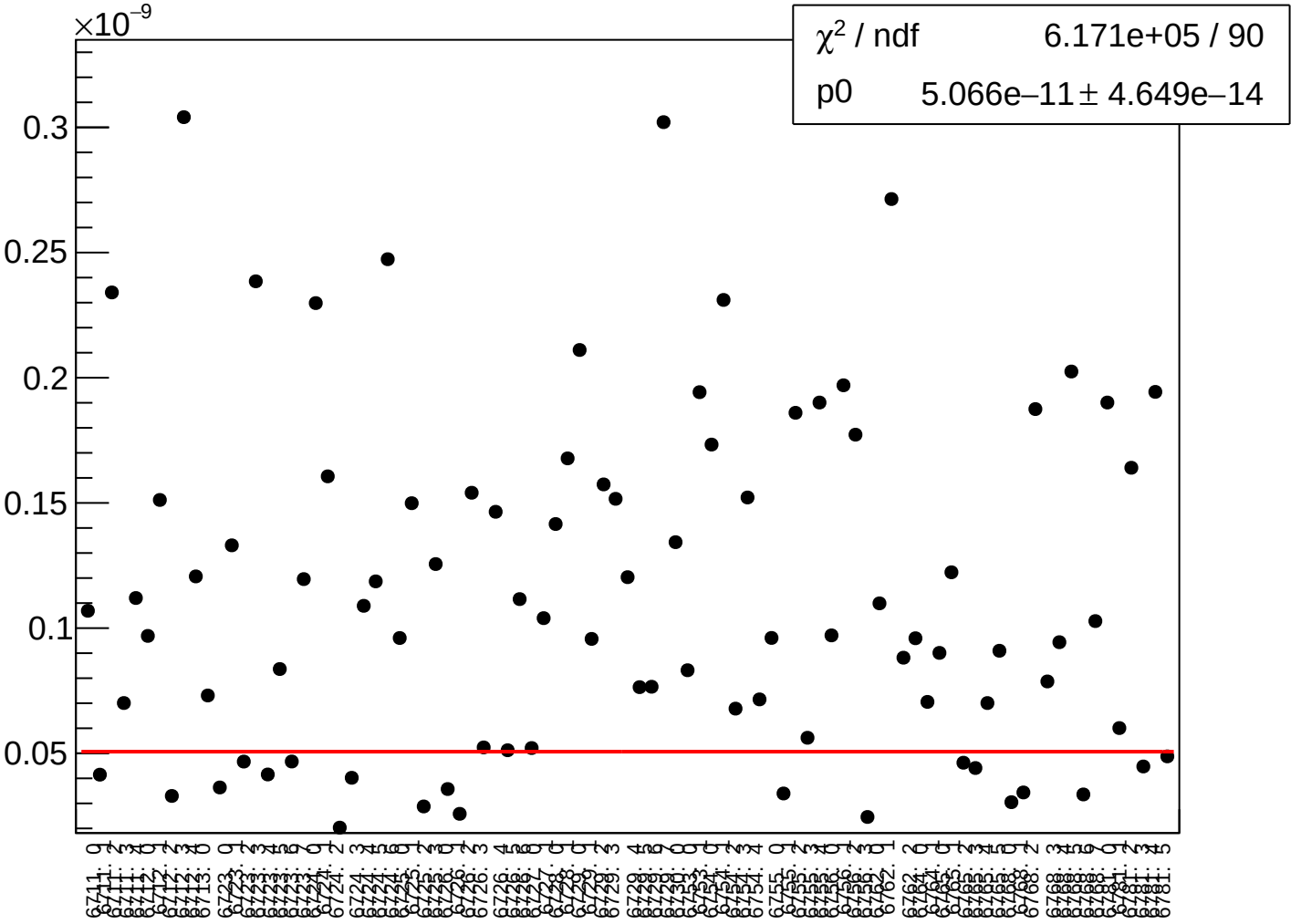

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.41 / 90
p0 0.01128 ± 0.2756
pull
Entries 91
Mean −42.76
Std Dev 0

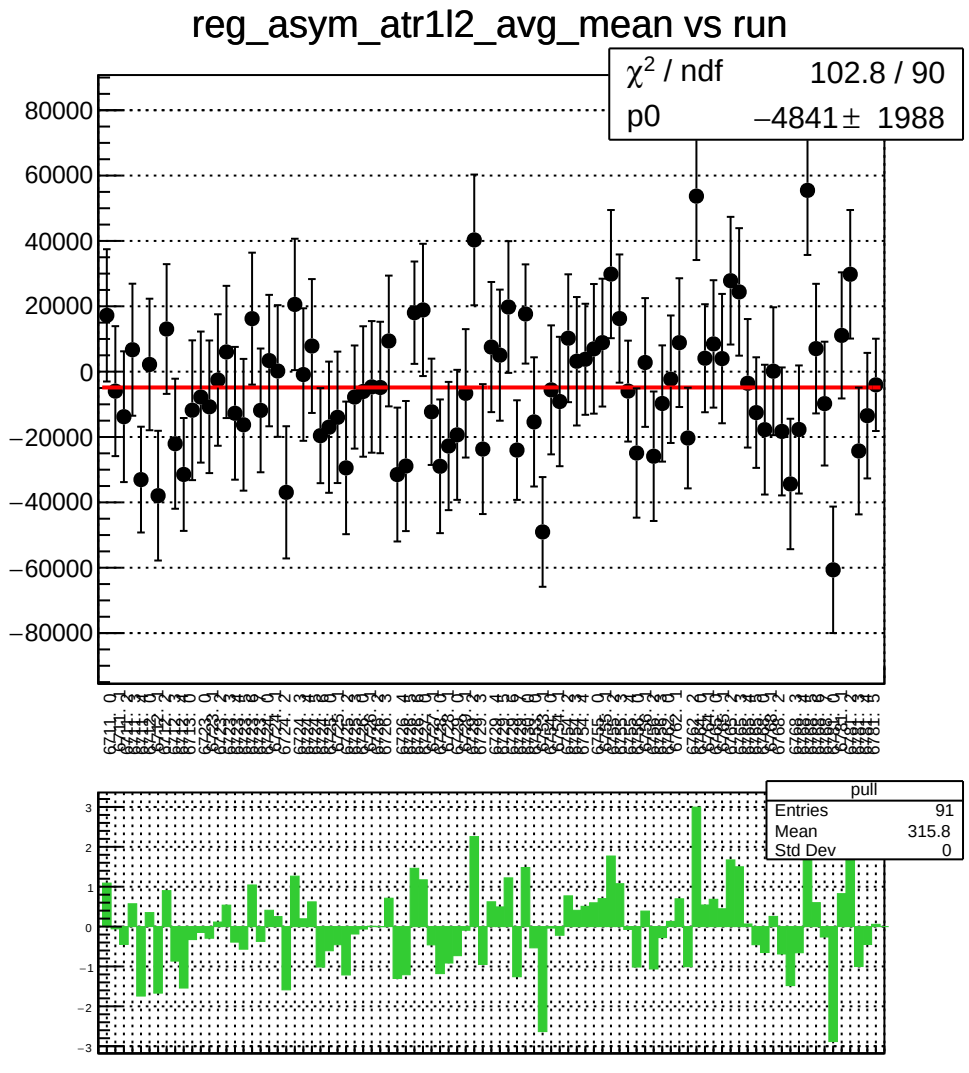

pull1D
Entries 91
Mean 0.02232
Std Dev 0.9629

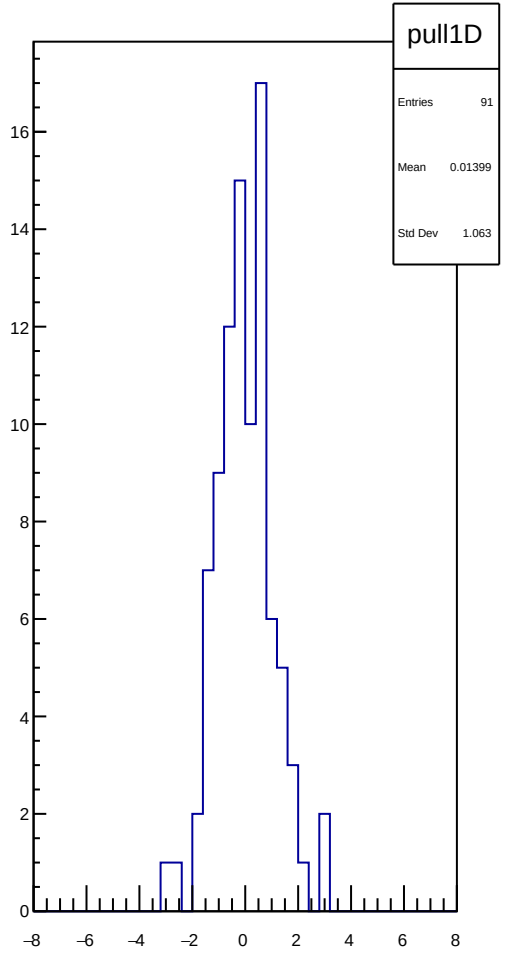

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.207e+04 / 90
p0 258.7 ± 0.1949
360
340
320
300
280
260
240
220
200

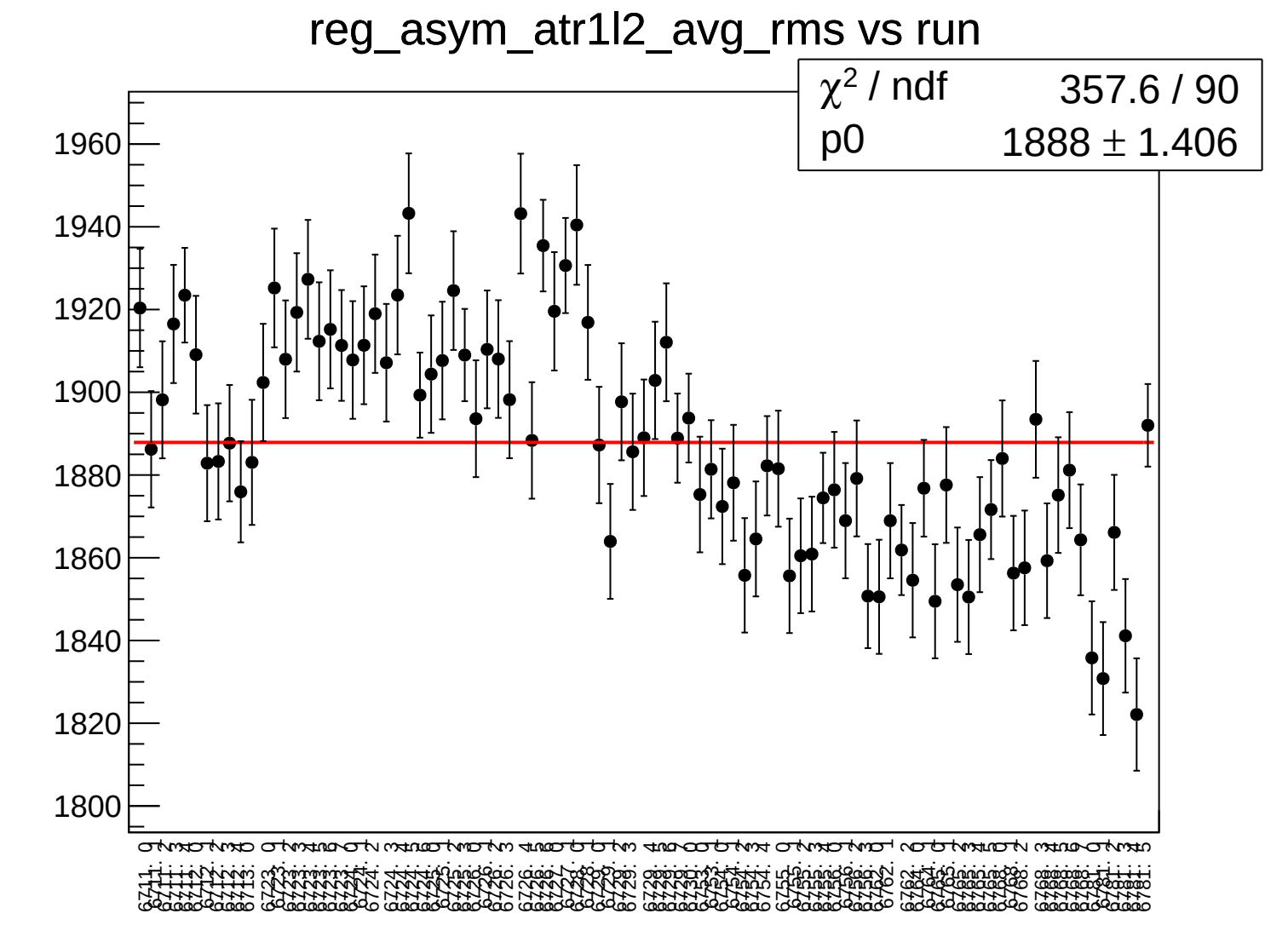

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.13 / 90
p0 1.084e−13 ± 6.575e−14
pull
Entries 91
Mean 74.75
Std Dev 0

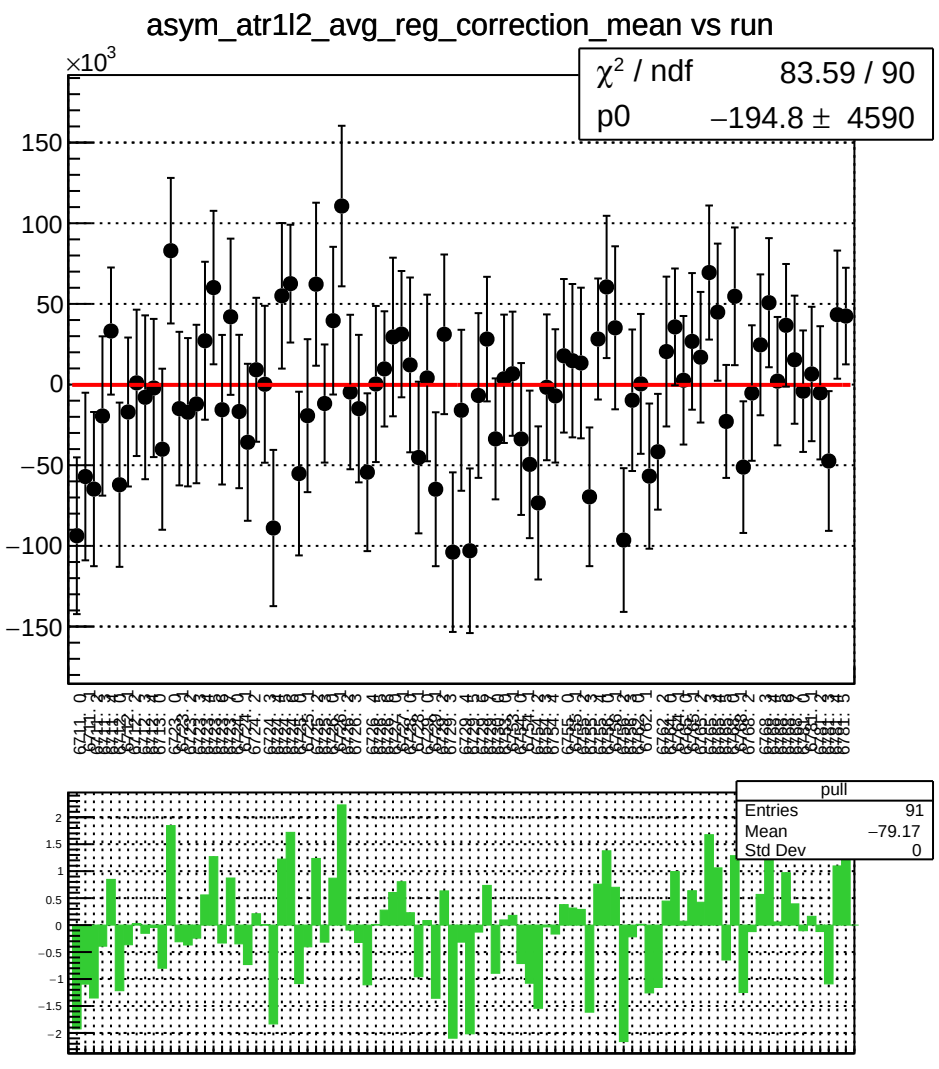

pull1D
Entries 91
Mean −0.0837
Std Dev 0.9692

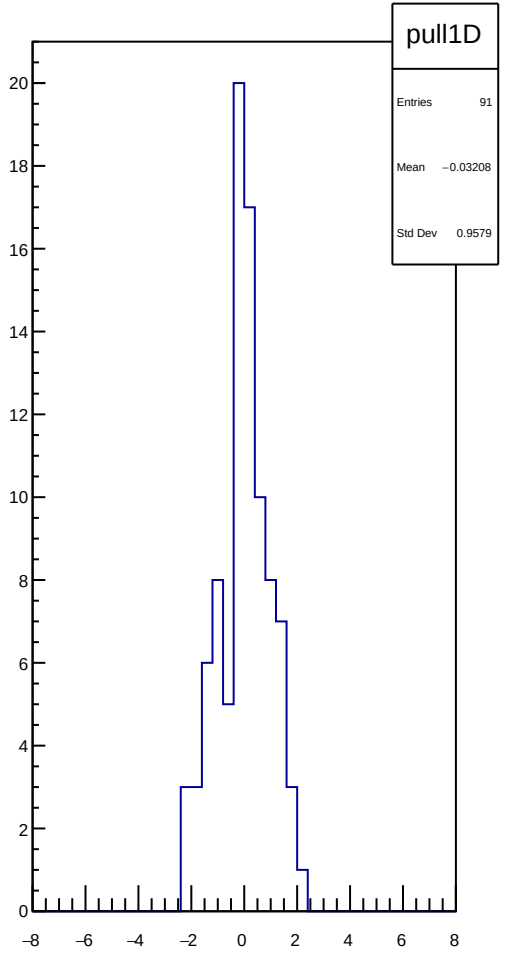

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.171e+05 / 90
p0 5.066e−11 ± 4.649e−14
0.3
0.25
0.2
0.15
0.1
0.05

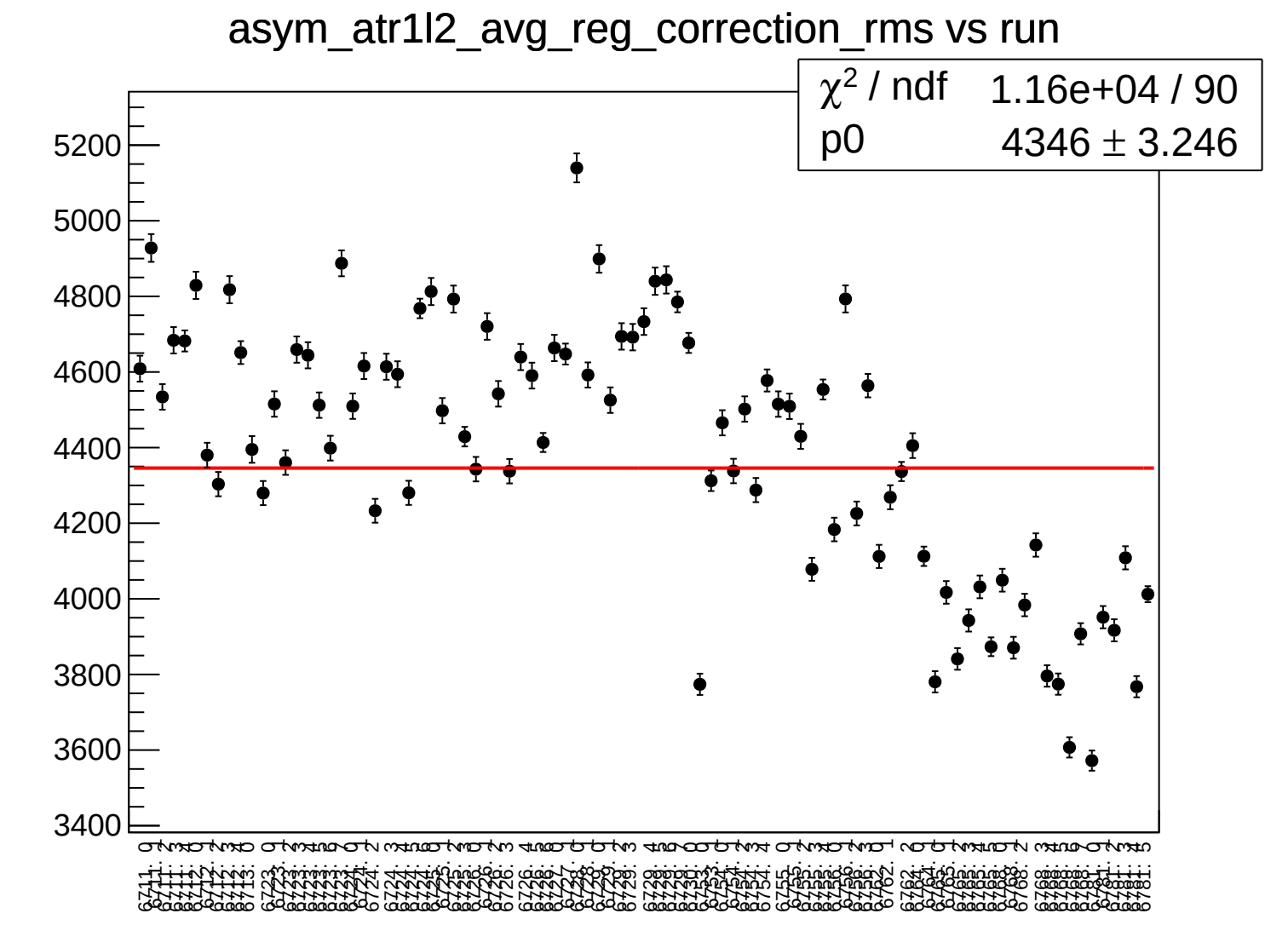

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 102.8 / 90
p0 −4841 ± 1988
pull
Entries 91
Mean 315.8
Std Dev 0

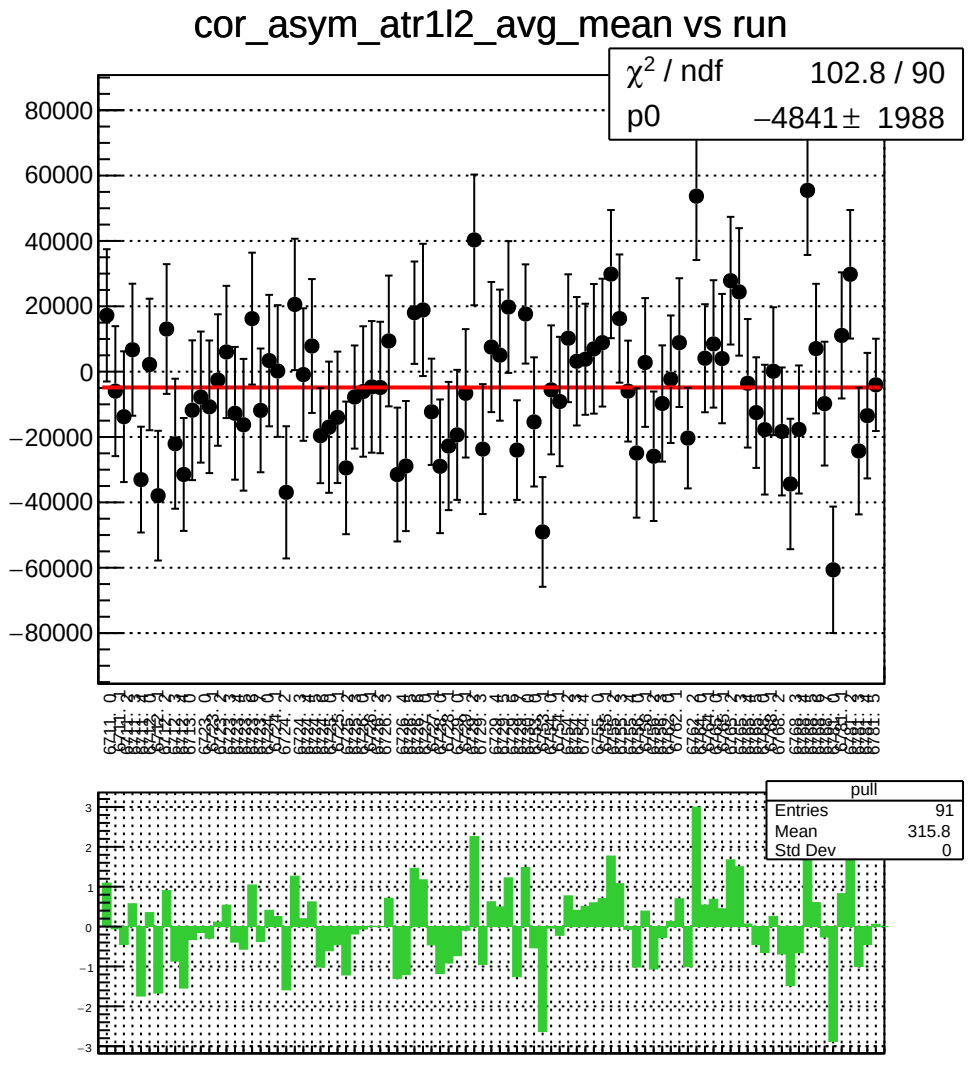

pull1D
Entries 91
Mean 0.01399
Std Dev 1.063

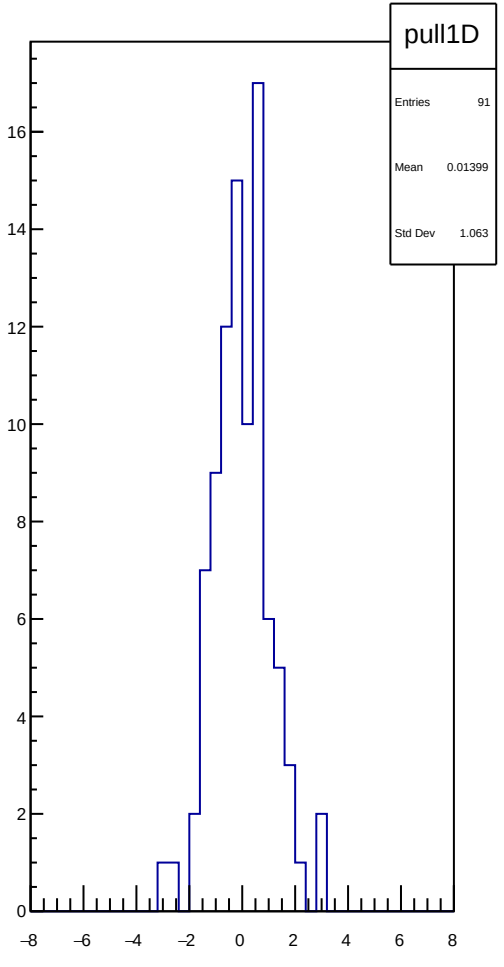

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 357.6 / 90
p0 1888 ± 1.406
1960
1940
1920
1900
1880
1860
1840
1820
1800

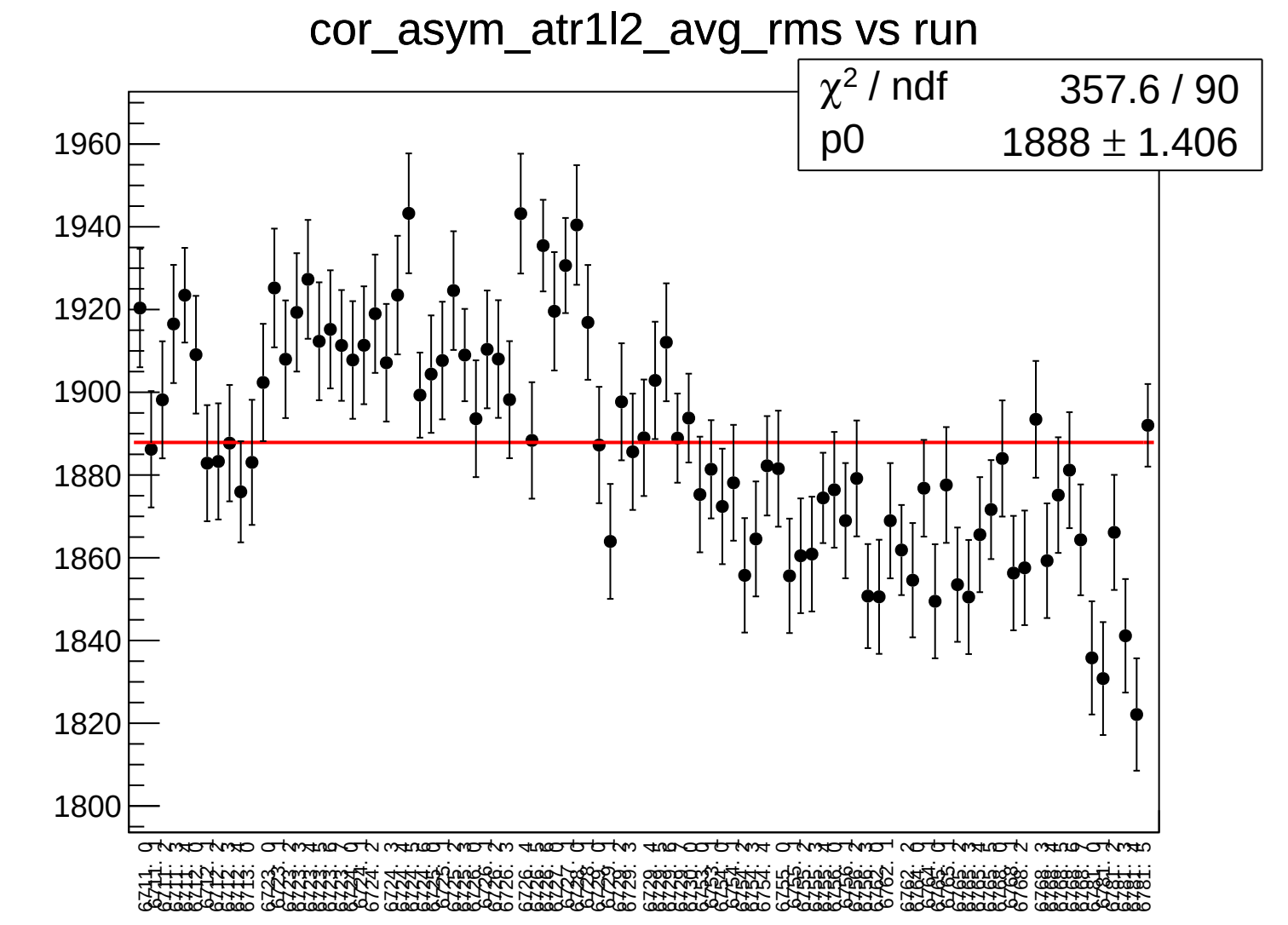

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 83.59 / 90
p0 −194.8 ± 4590
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −79.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

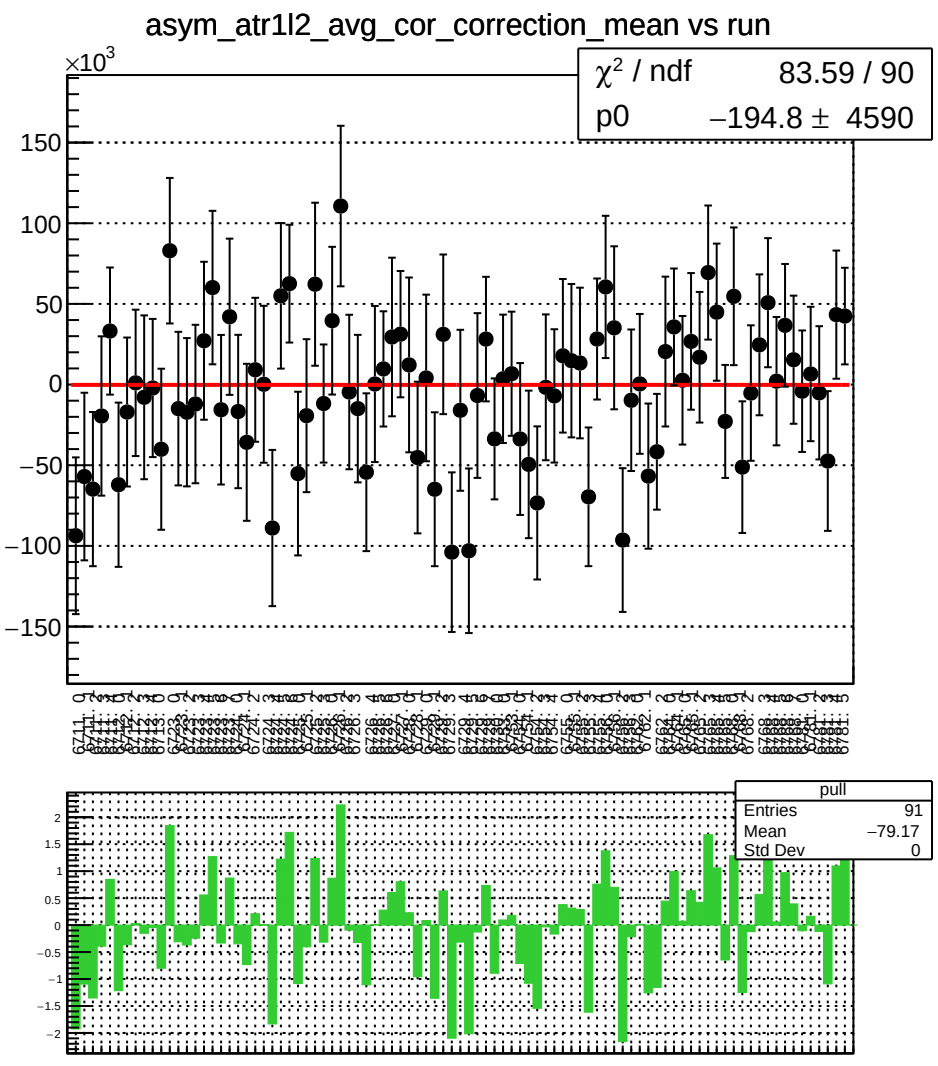

pull1D
Entries 91
Mean −0.03208
Std Dev 0.9579
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

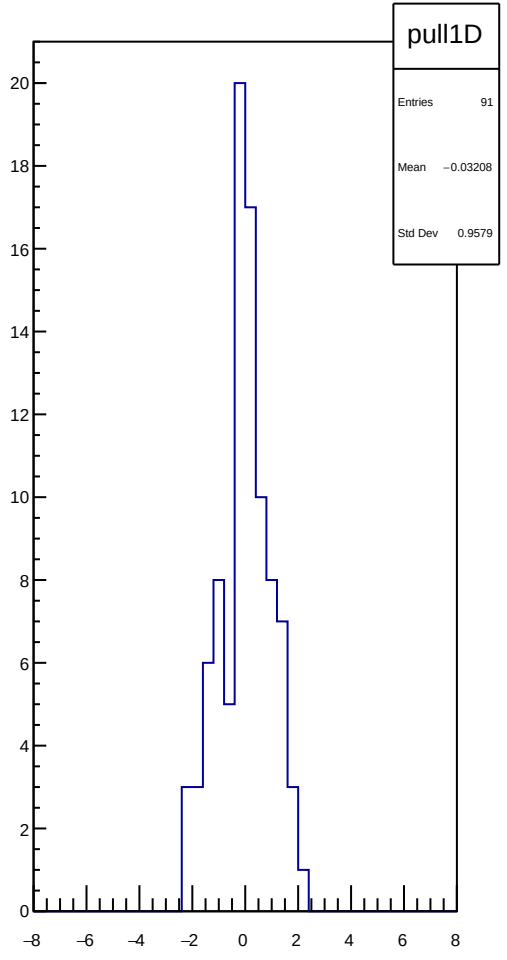

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 1.16e+04 / 90
p0 4346 ± 3.246
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

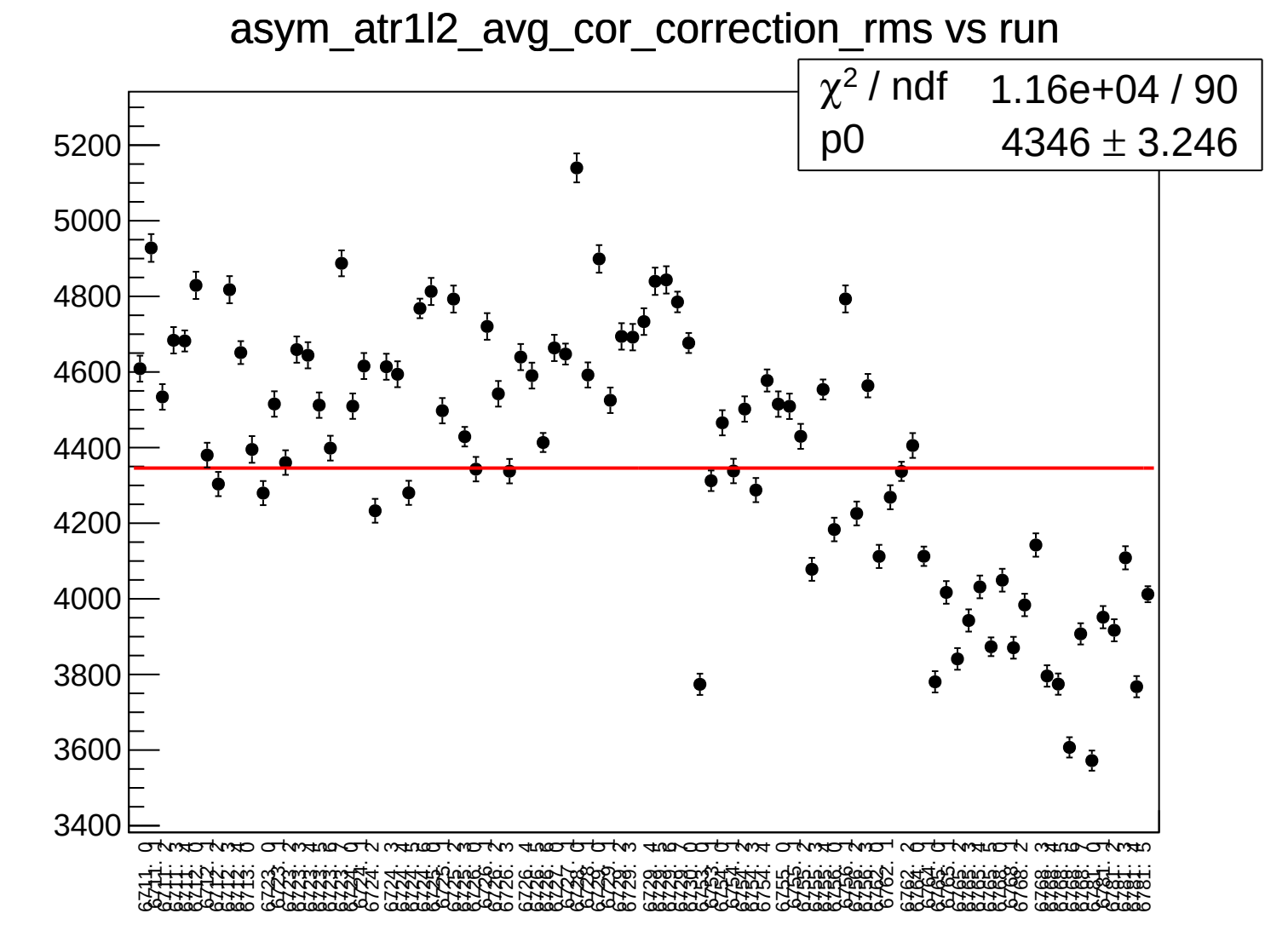

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 102.8 / 90
p0 −4841 ± 1988
pull
Entries 91
Mean 315.8
Std Dev 0

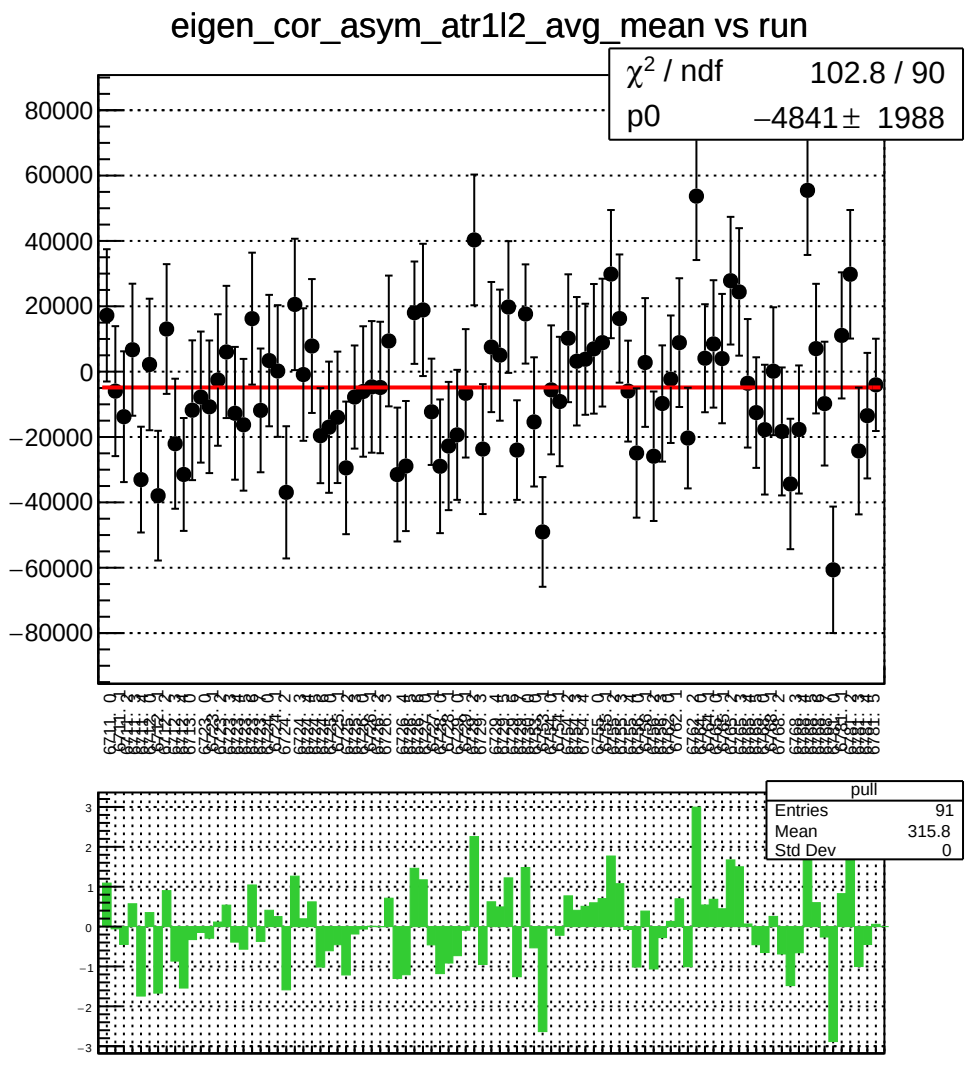

pull1D
Entries 91
Mean 0.01399
Std Dev 1.063

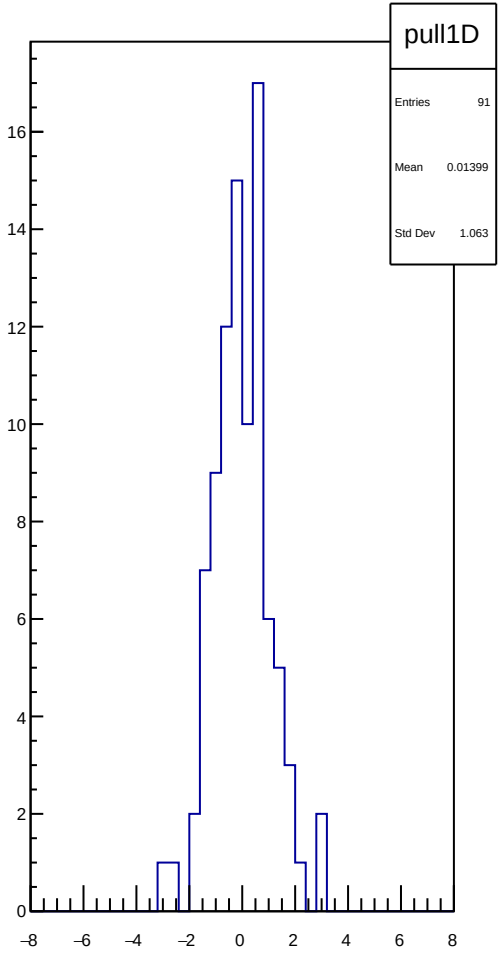

cor_asym_atr1l2_avg_rms vs run
χ^2 / ndf 357.6 / 90
p0 1888 ± 1.406
1960
1940
1920
1900
1880
1860
1840
1820
1800

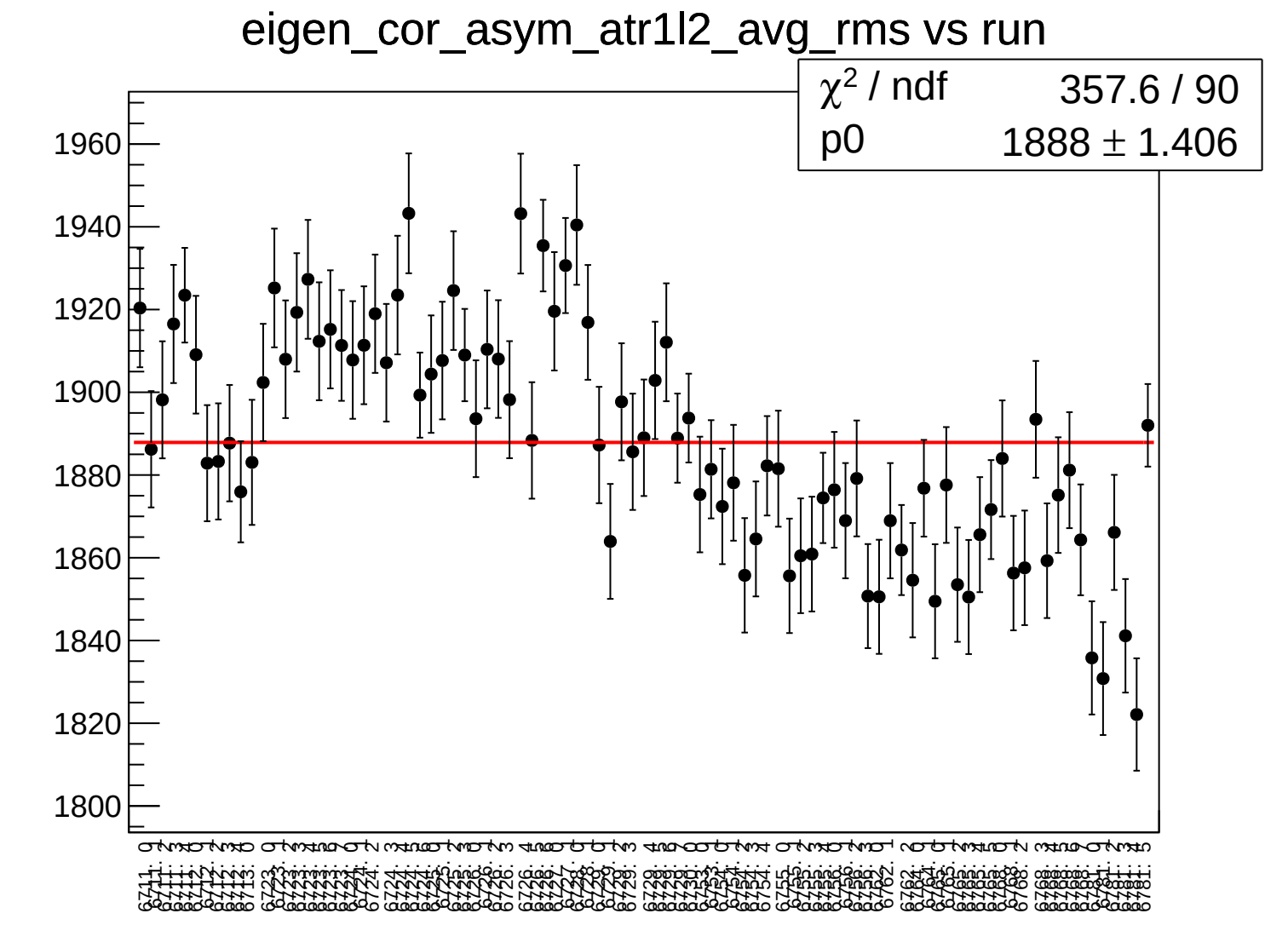

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 83.59 / 90
p0 −194.8 ± 4590
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −79.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

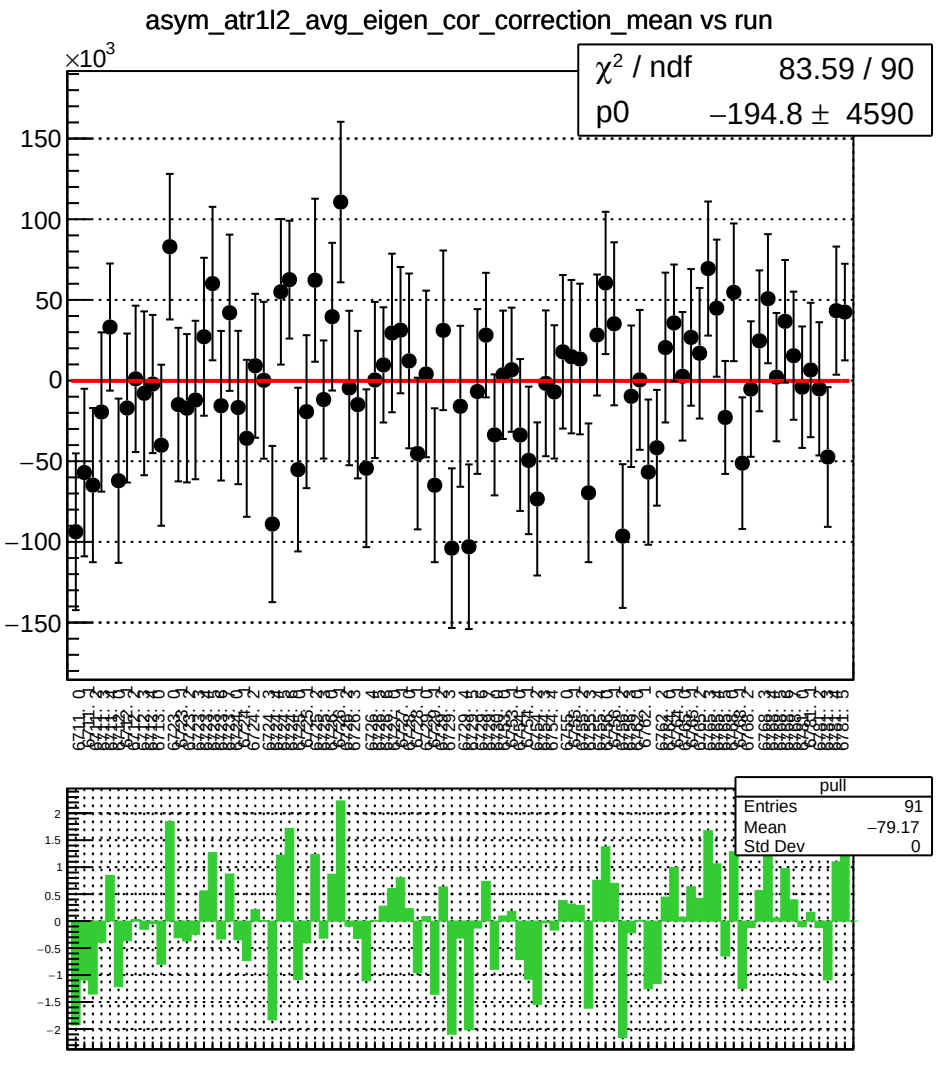

pull1D
Entries 91
Mean −0.03208
Std Dev 0.9579
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

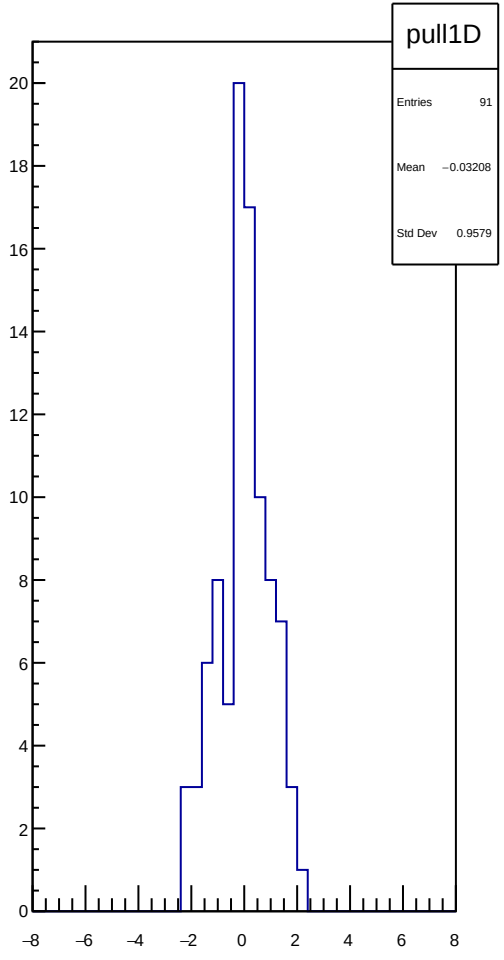

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 1.16e+04 / 90
p0 4346 ± 3.246
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

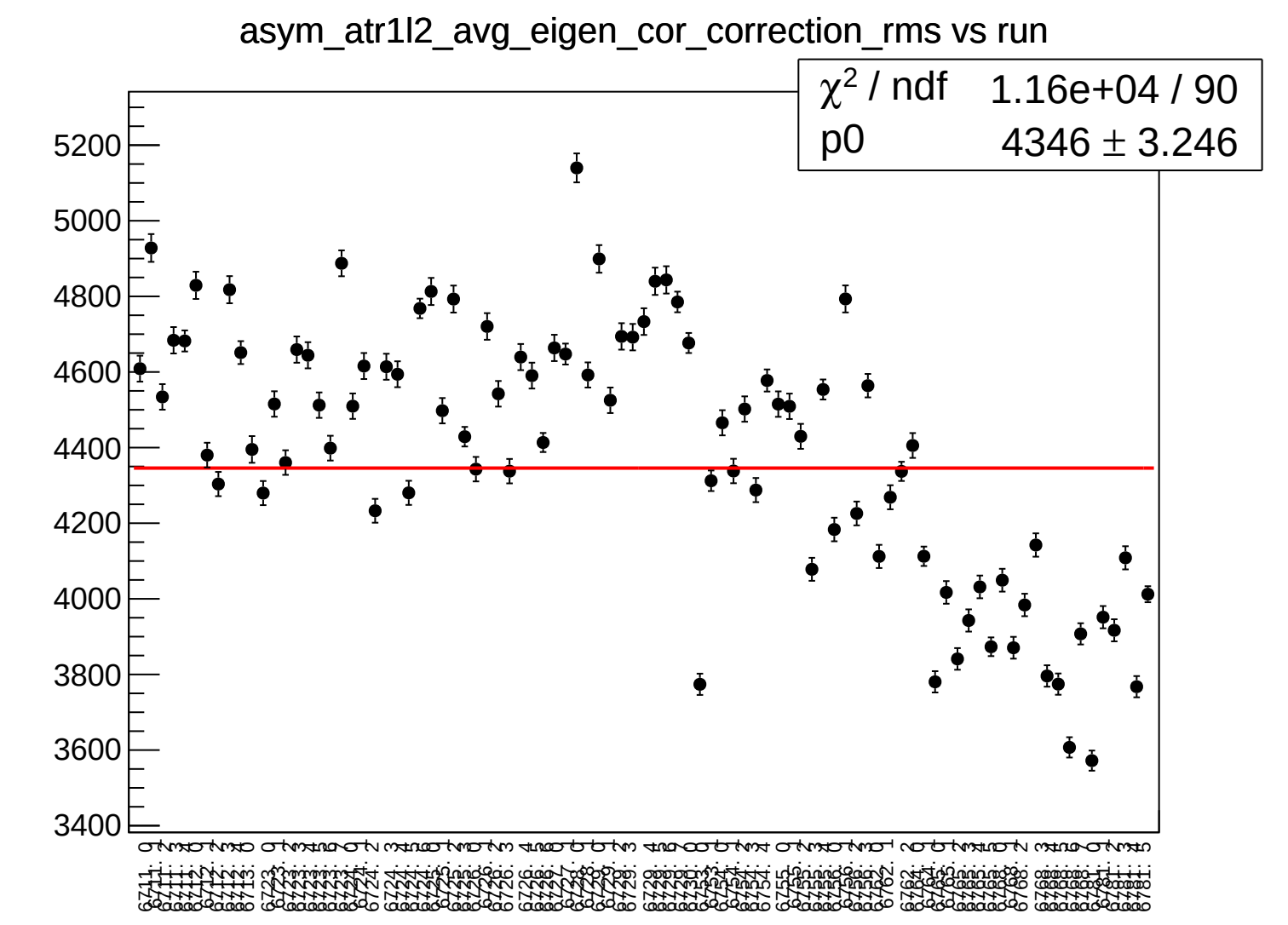

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 102.8 / 90
p0 −4841 ± 1988
pull
Entries 91
Mean 315.8
Std Dev 0

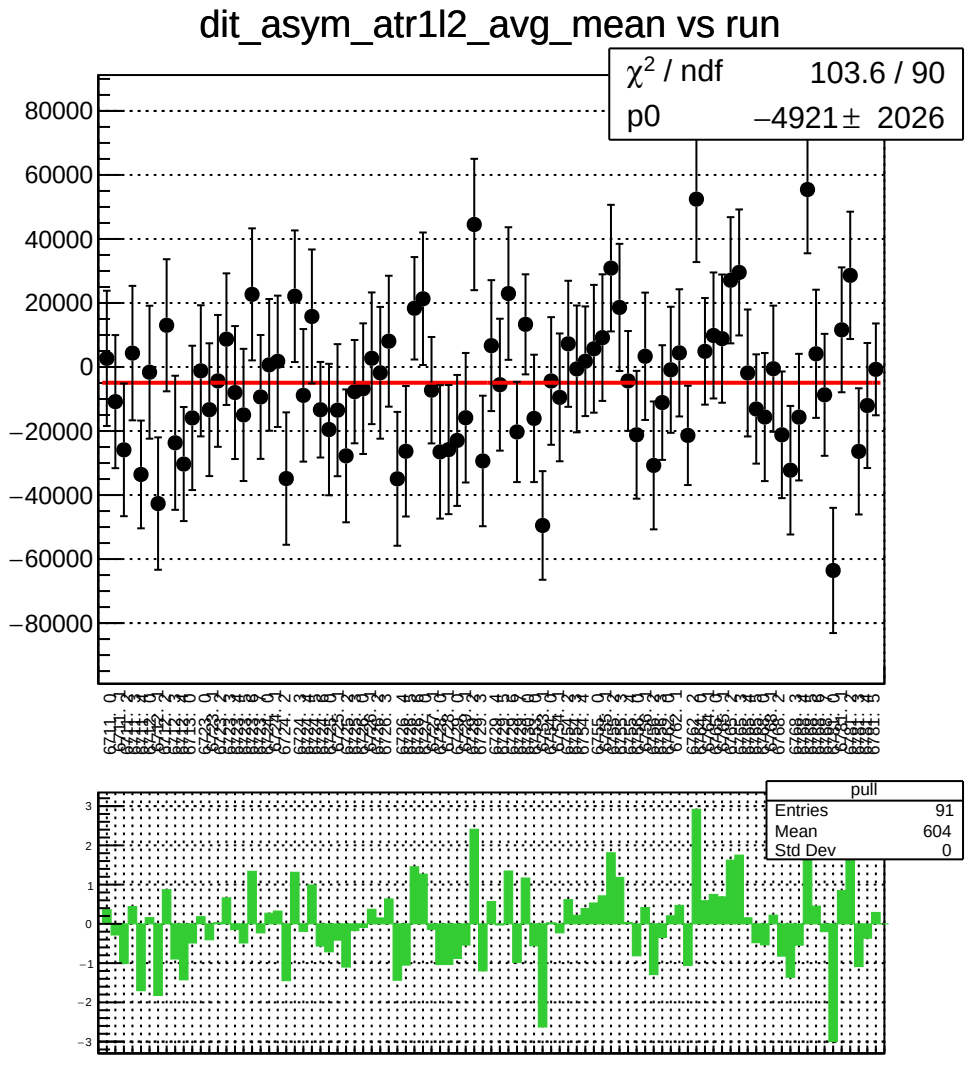

pull1D
Entries 91
Mean 0.01399
Std Dev 1.063

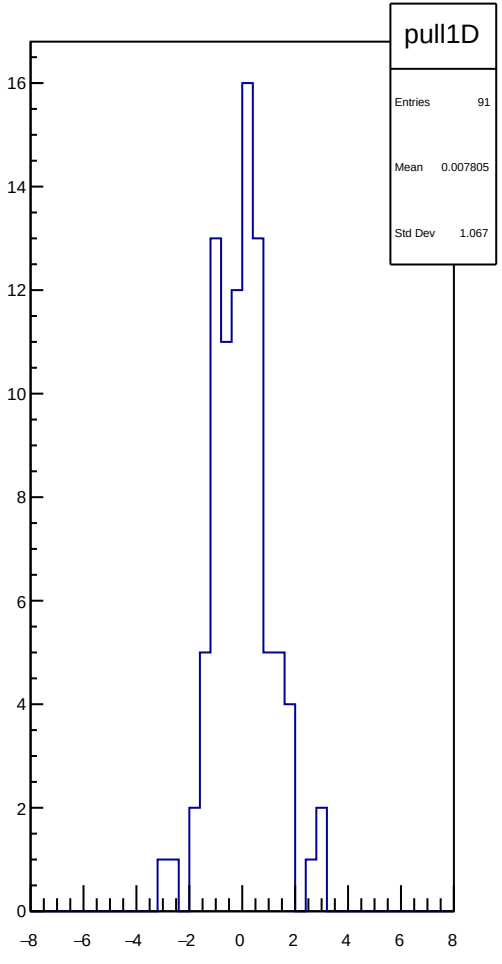

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 357.6 / 90
p0 1888 ± 1.406
1960
1940
1920
1900
1880
1860
1840
1820
1800

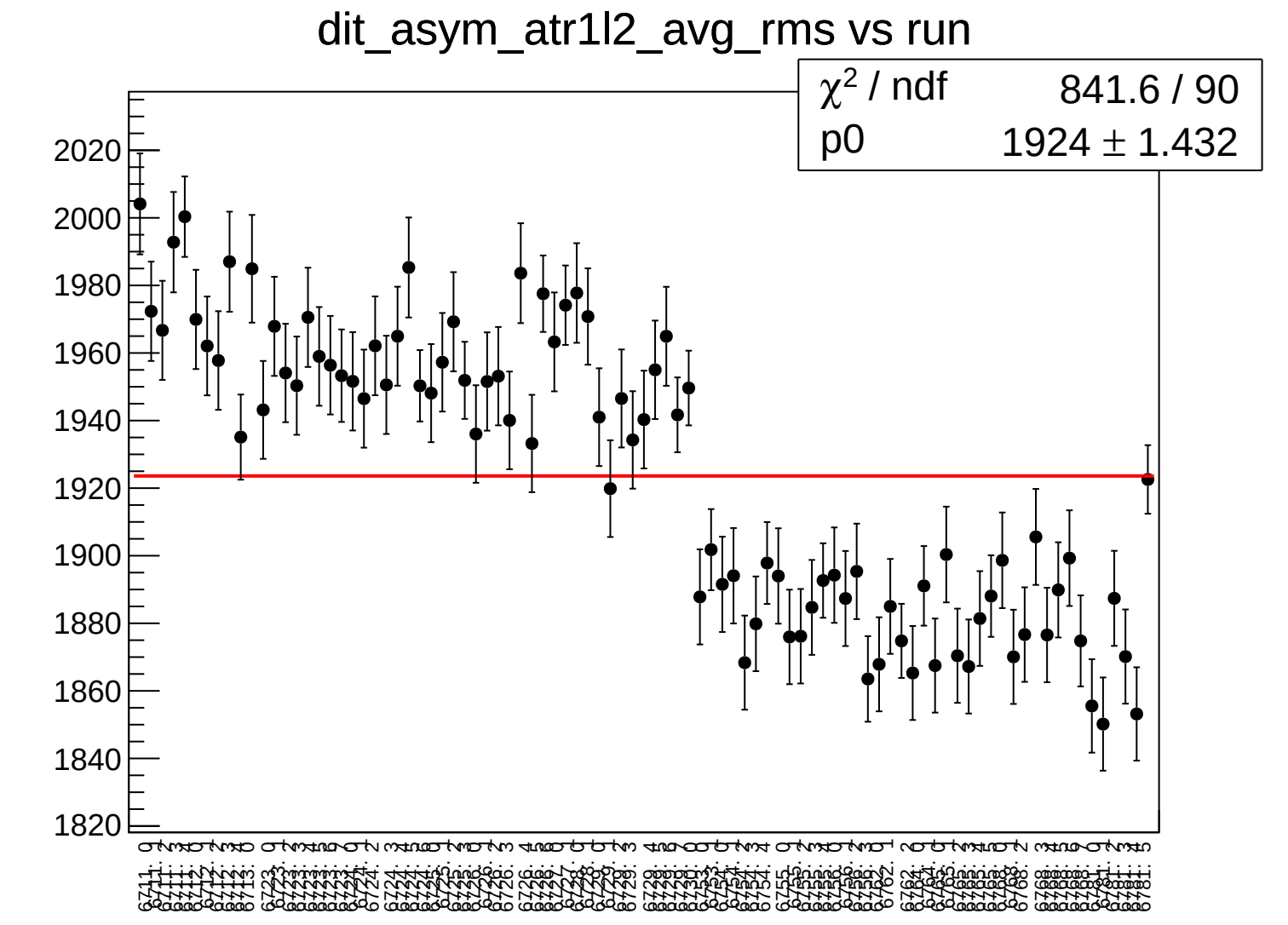

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.59 / 90
p0 −194.8 ± 4590
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −79.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

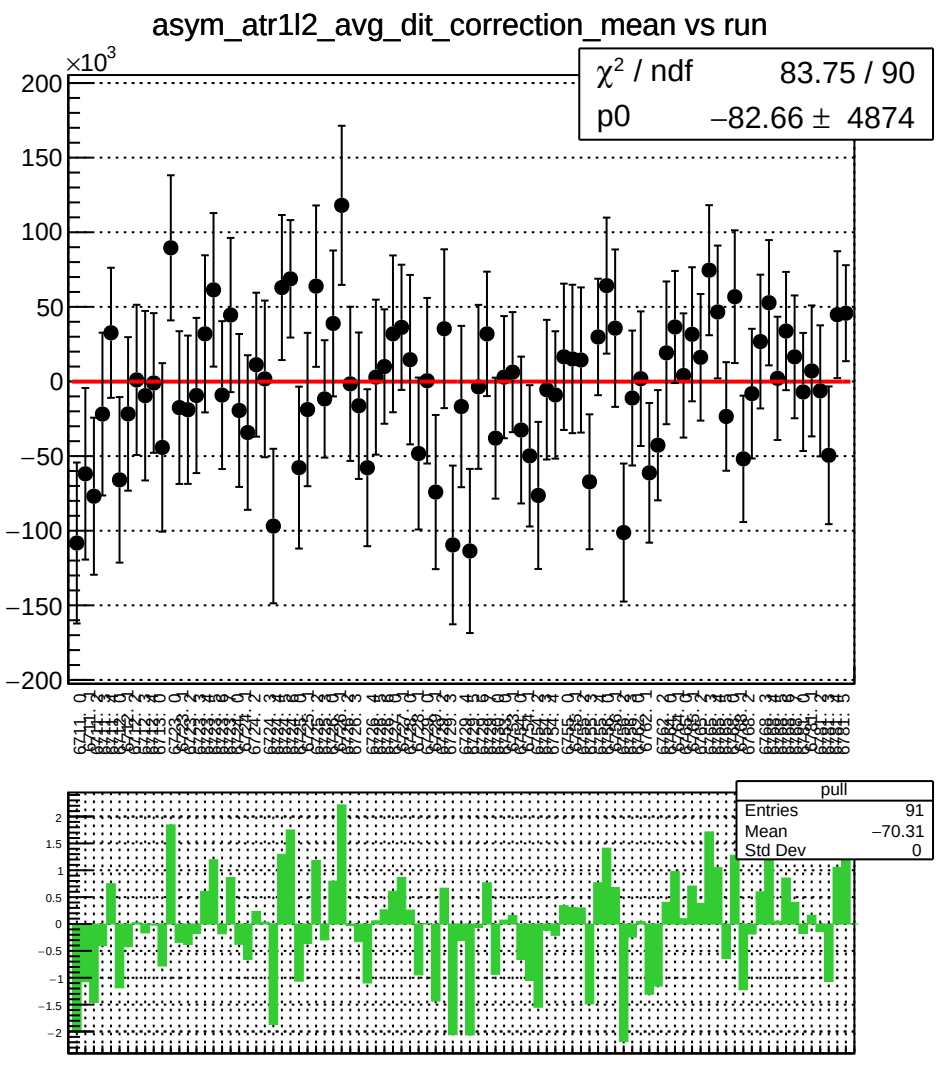

pull1D
Entries 91
Mean −0.03208
Std Dev 0.9579
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

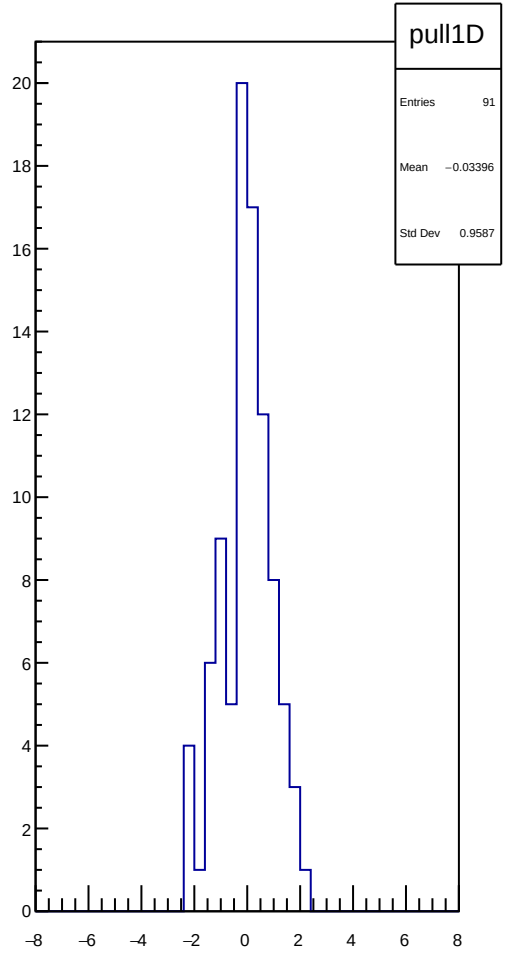

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.16e+04 / 90
p0 4346 ± 3.246
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

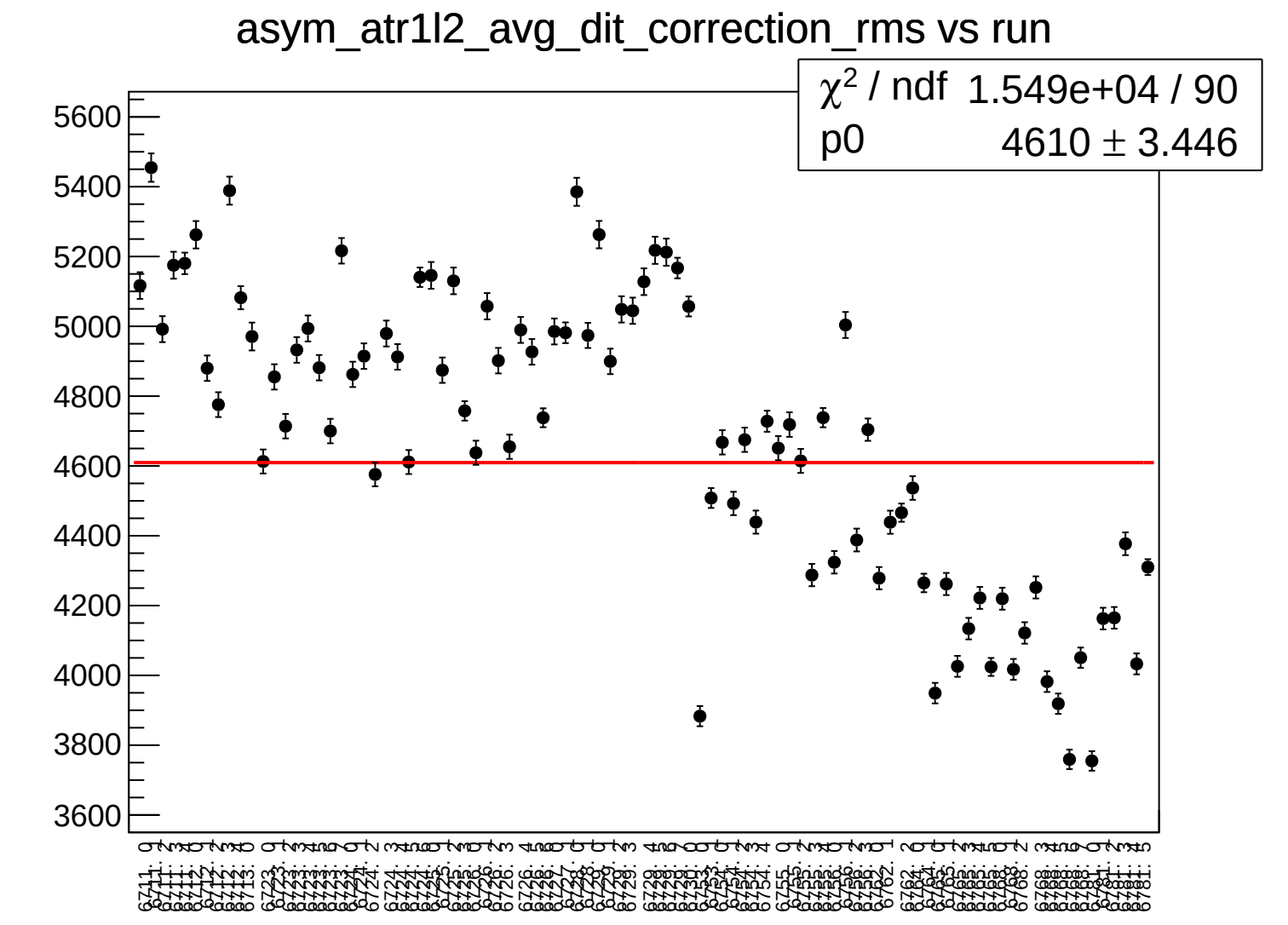

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 103.6 / 90
p0 −4921 ± 2026
pull
Entries 91
Mean 604
Std Dev 0

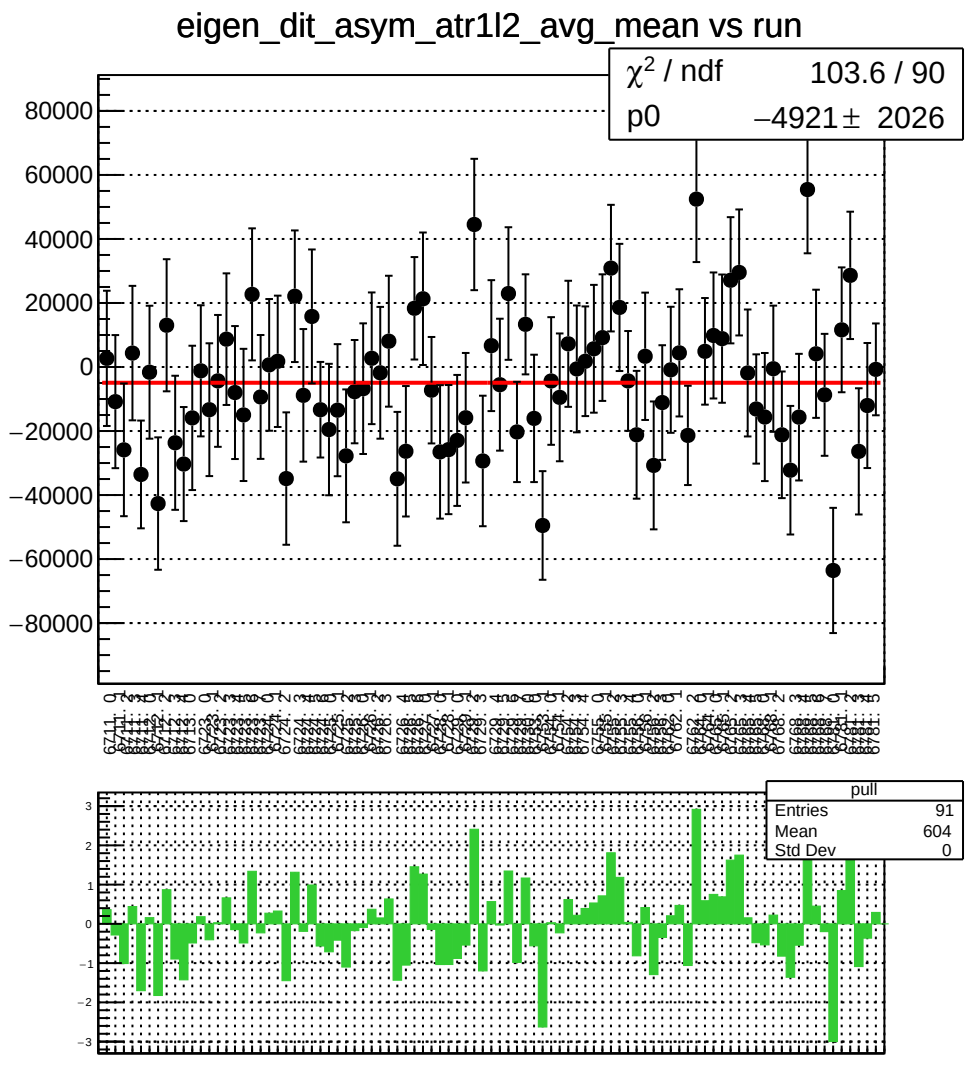

pull1D
Entries 91
Mean 0.007805
Std Dev 1.067

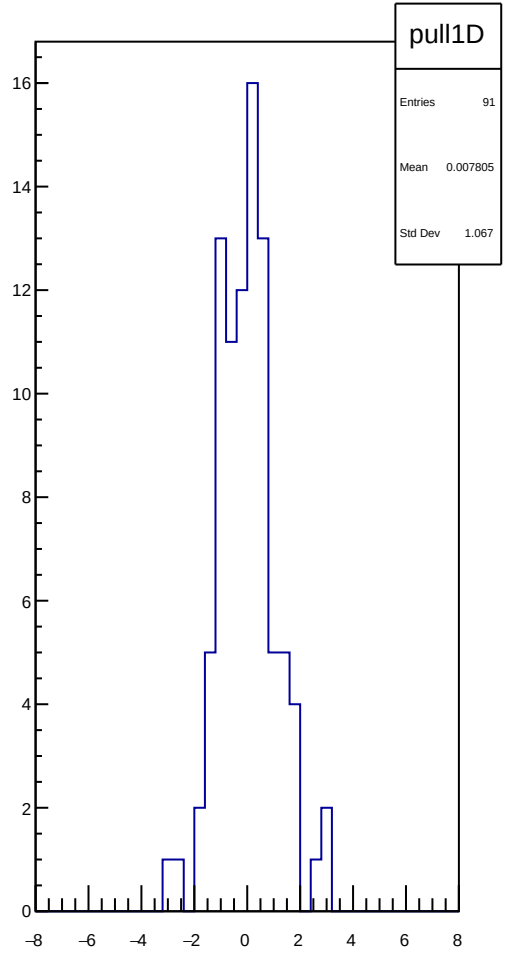

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 841.6 / 90
p0 1924 ± 1.432
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820

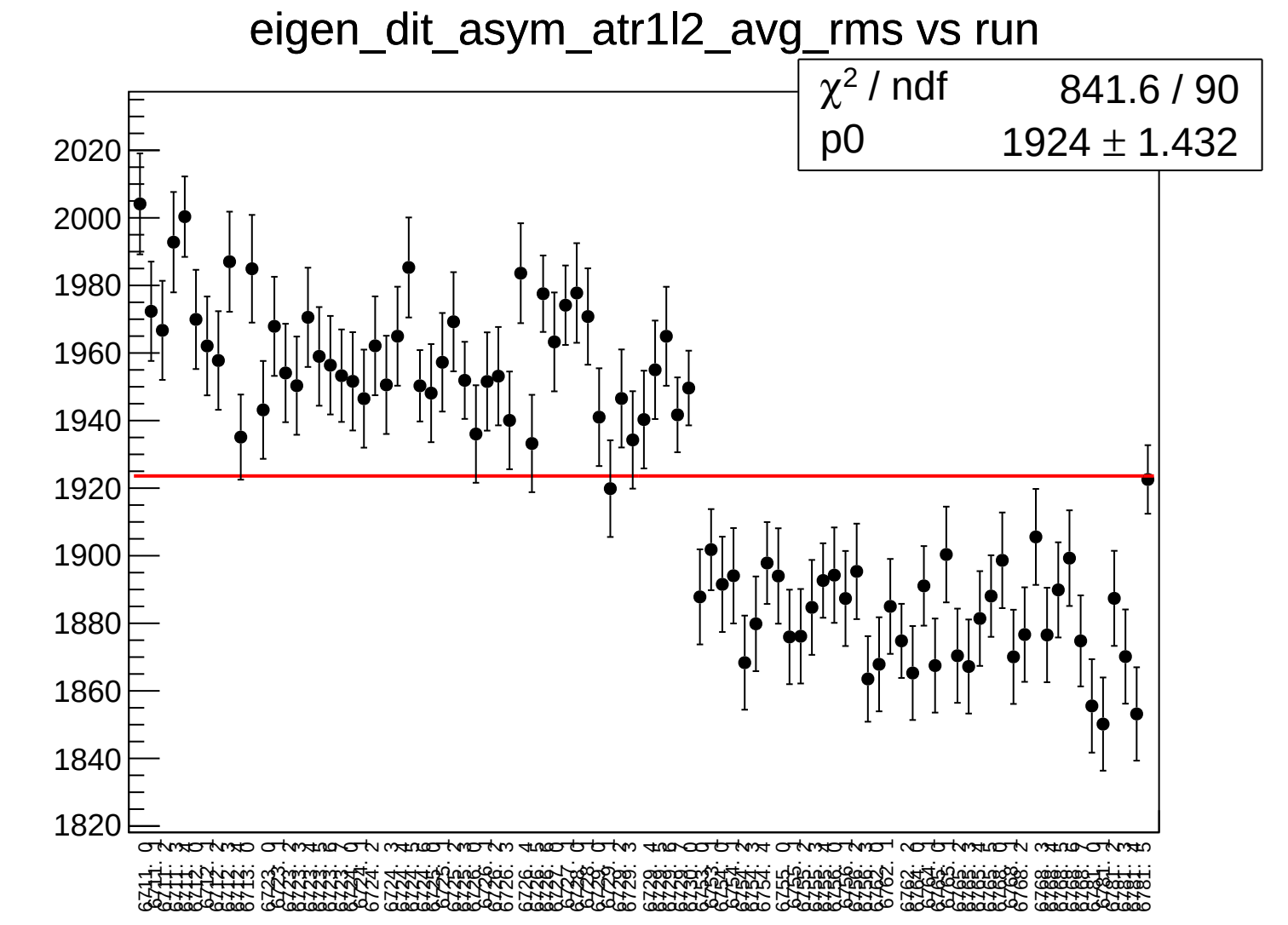

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 83.75 / 90
p0 −82.66 ± 4874
pull
Entries 91
Mean −70.31
Std Dev 0

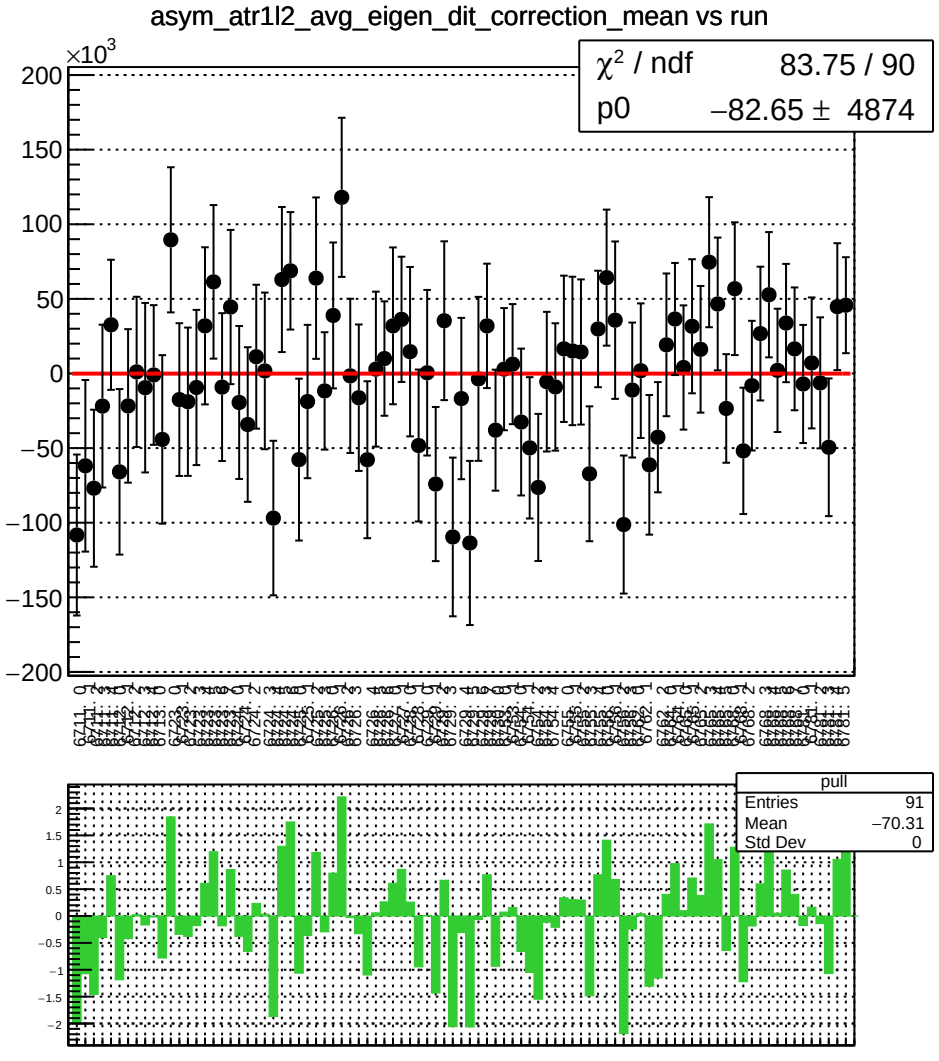

pull1D
Entries 91
Mean −0.03396
Std Dev 0.9587

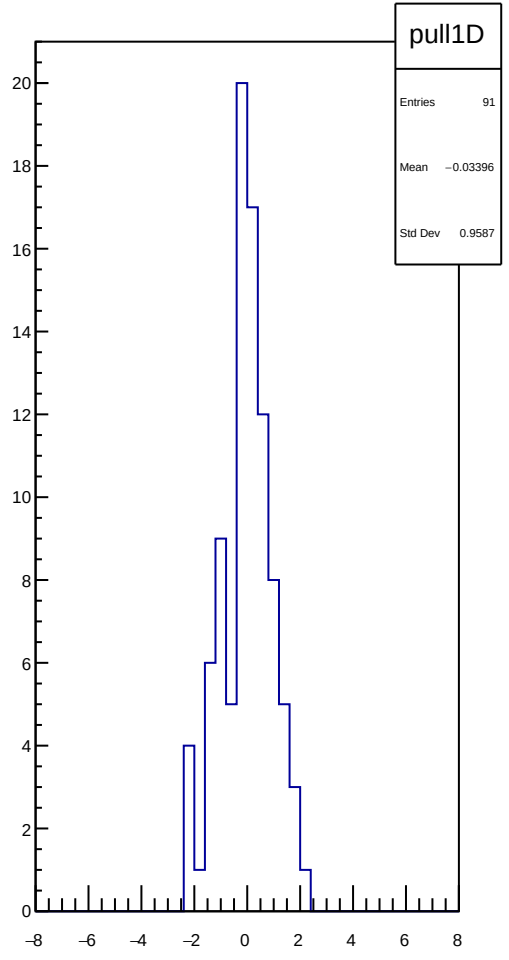

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 1.549e+04 / 90
p0 4610 ± 3.446
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

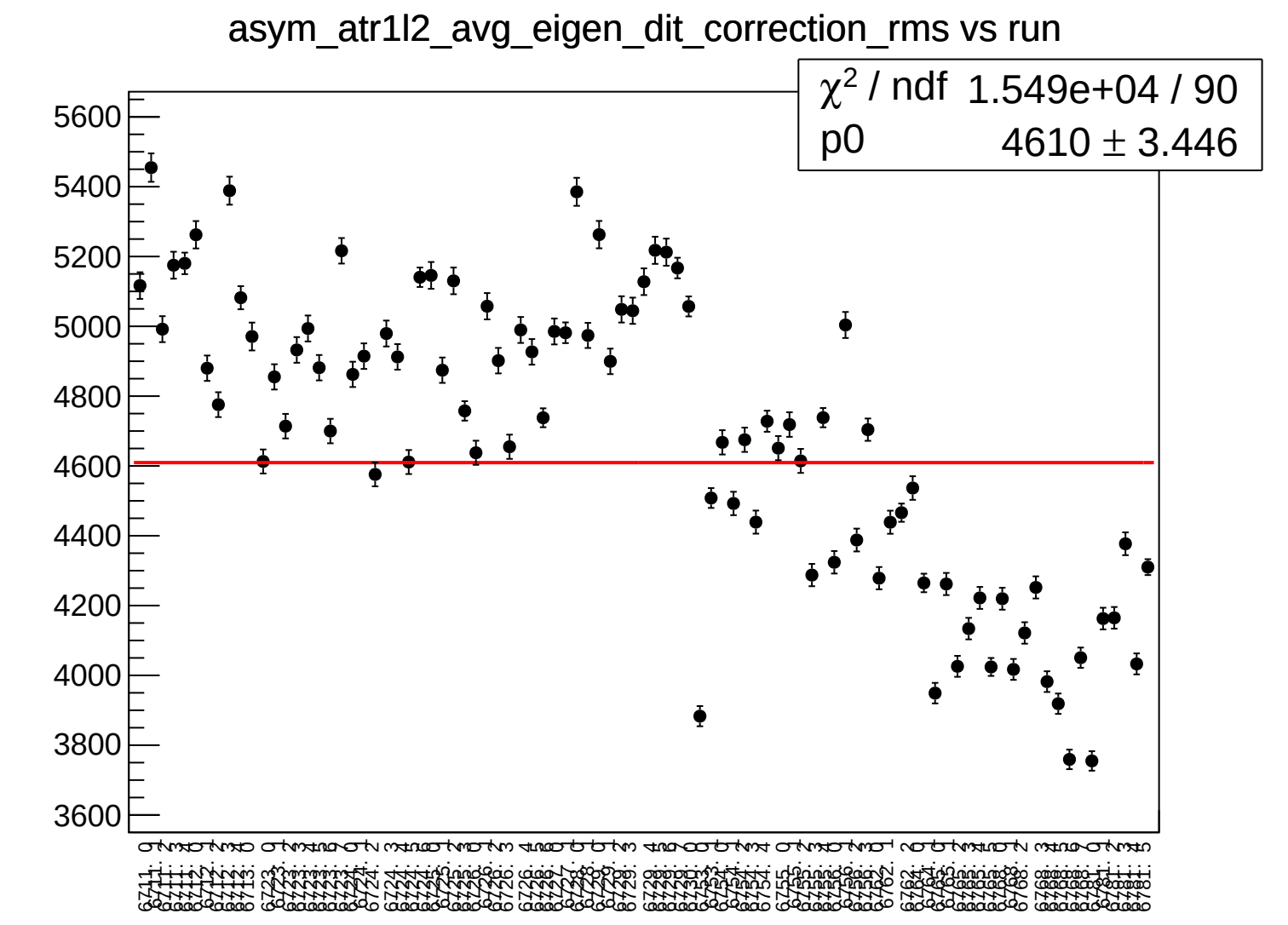

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 103.6 / 90
p0 −4921 ± 2026
pull
Entries 91
Mean 604
Std Dev 0

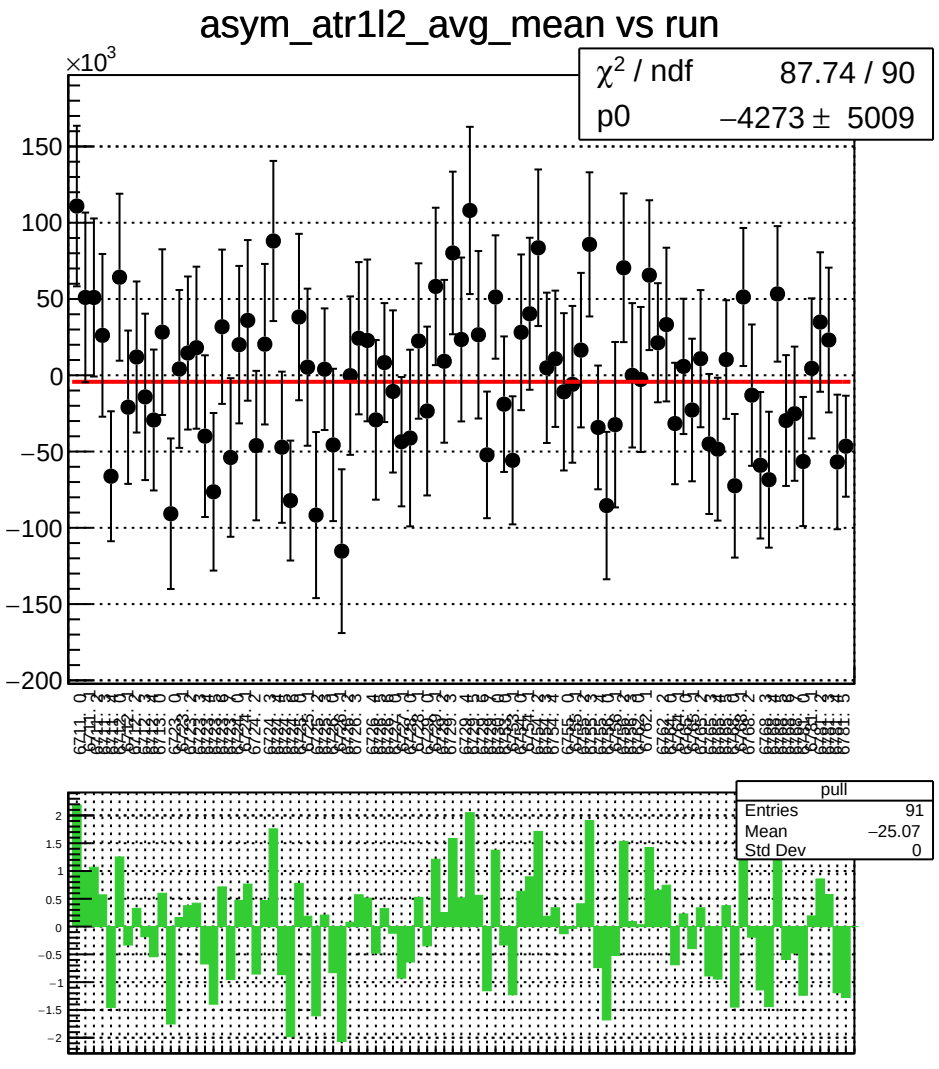

pull1D
Entries 91
Mean 0.007805
Std Dev 1.067

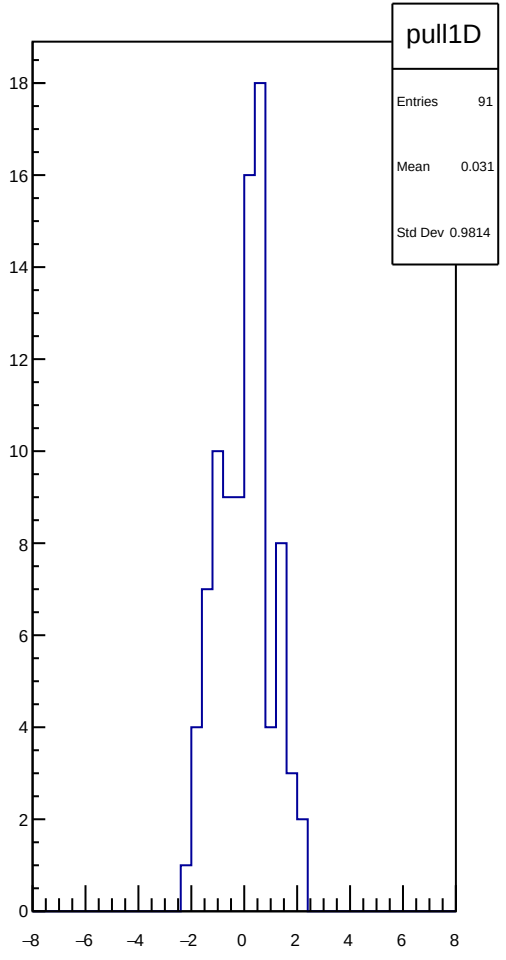

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 841.6 / 90
p0 1924 ± 1.432
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820

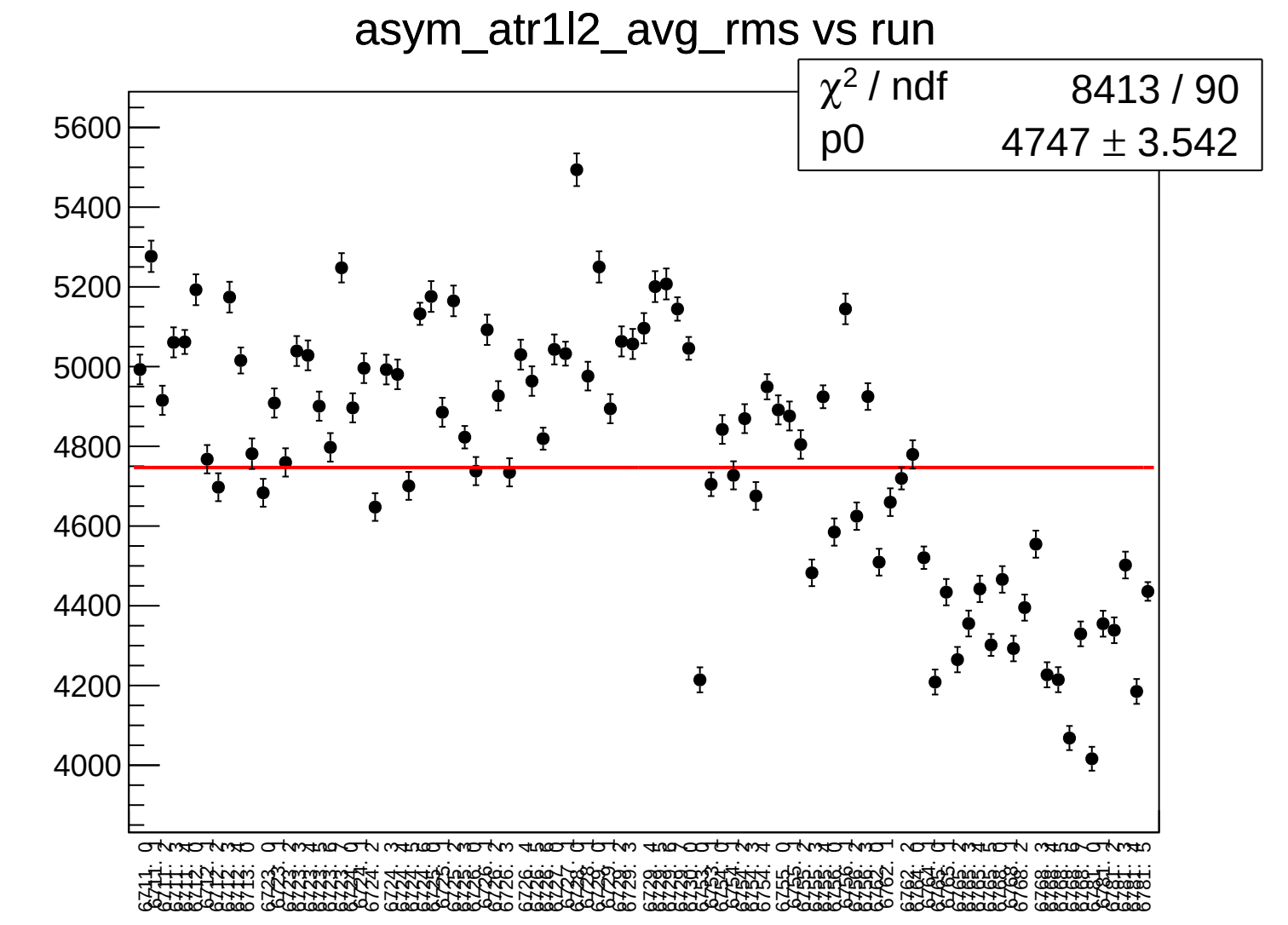

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.75 / 90
p0 −82.65 ± 4874
pull
Entries 91
Mean −70.31
Std Dev 0

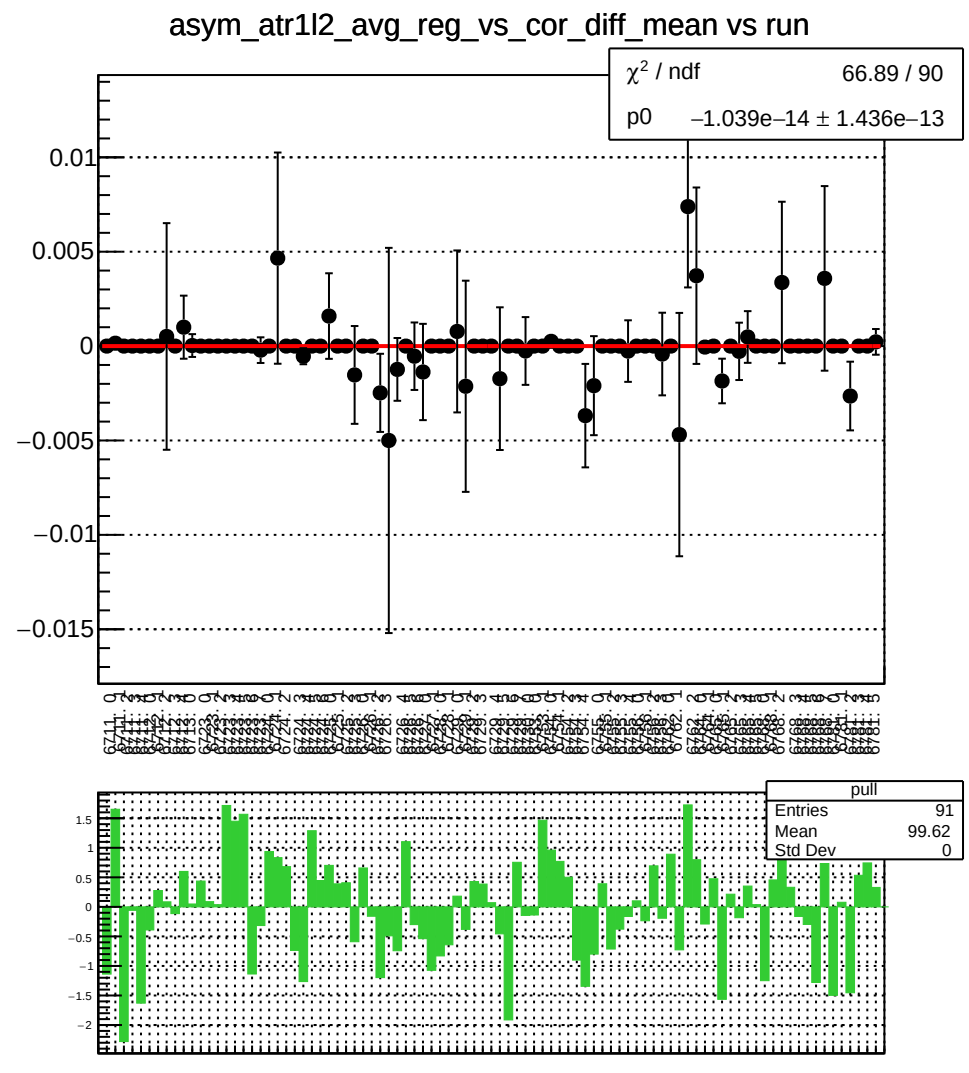

pull1D
Entries 91
Mean −0.03396
Std Dev 0.9587

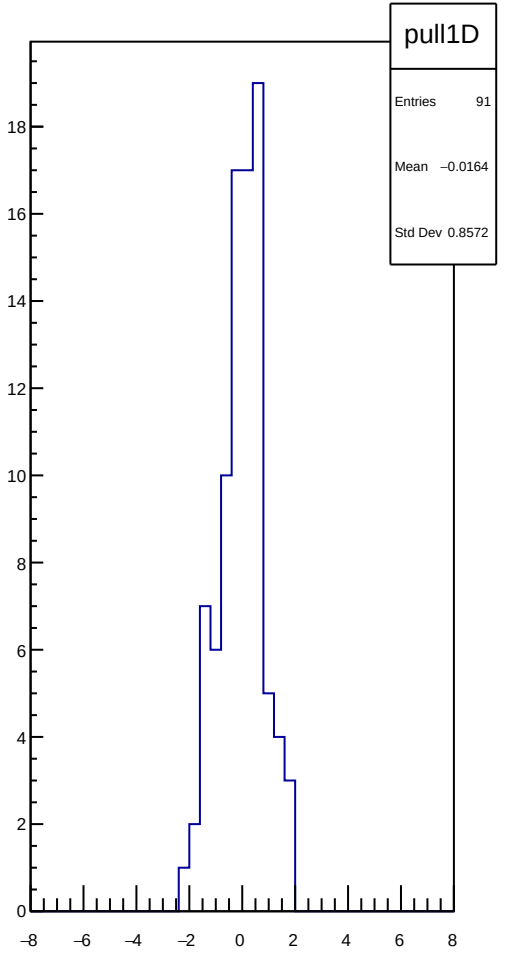

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.549e+04 / 90
p0 4610 ± 3.446
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

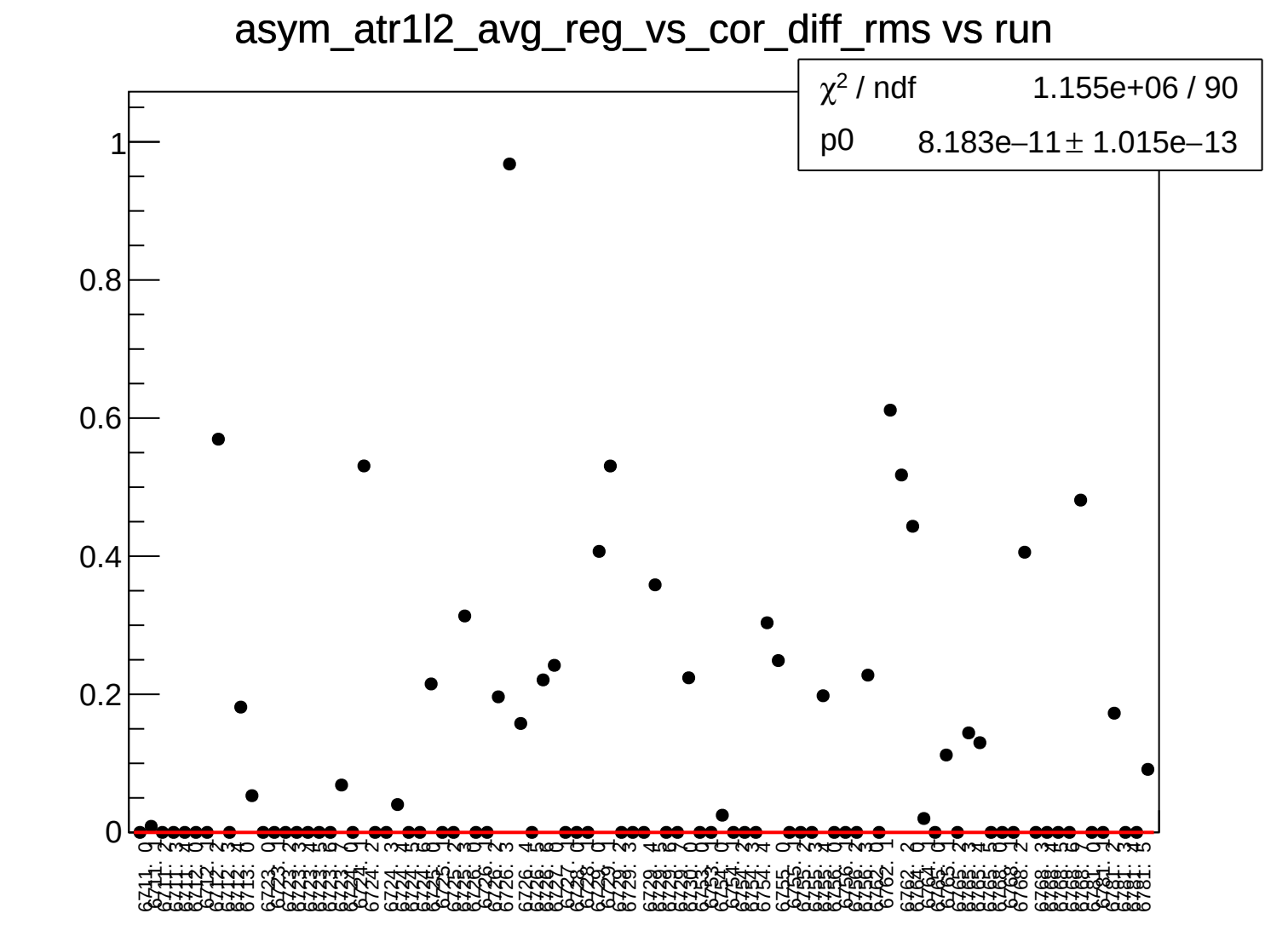

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 87.74 / 90
p0 −4273 ± 5009
150
100
50
0
−50
−100
−150
−200
pull
Entries 91
Mean −25.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

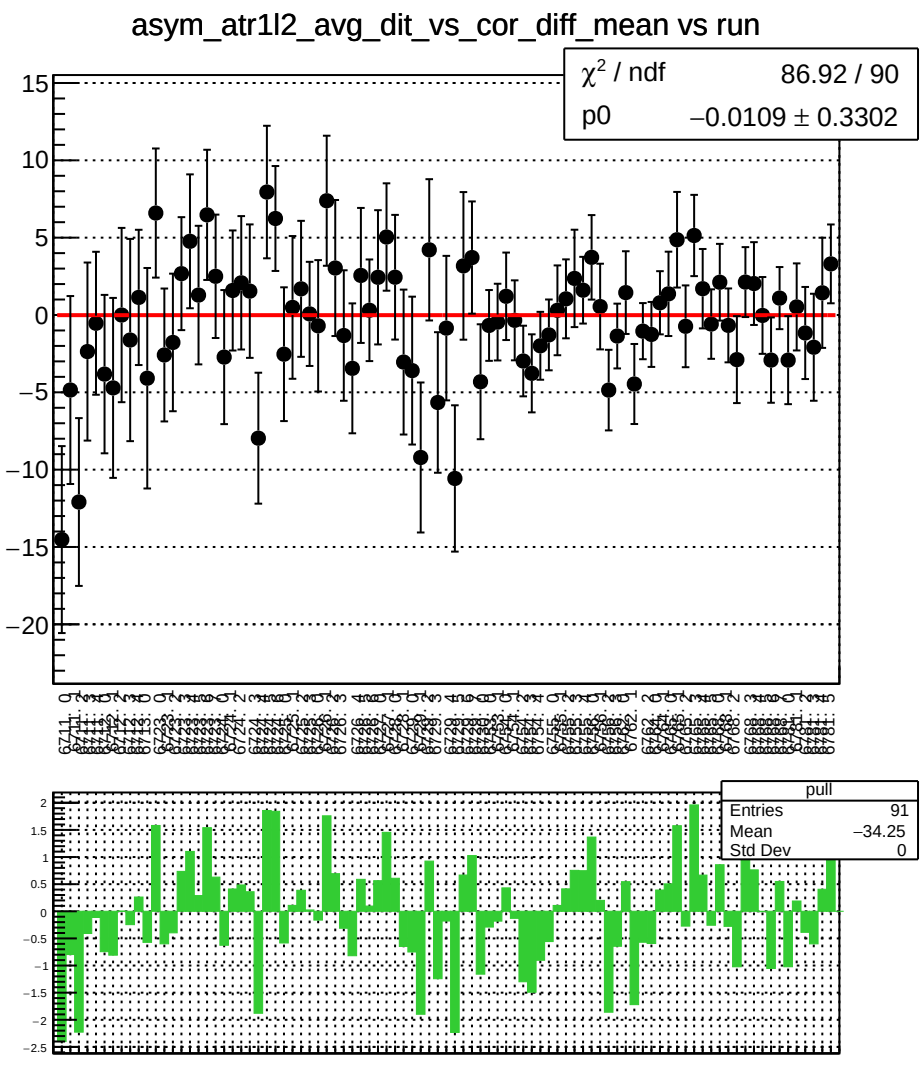

pull1D
Entries 91
Mean 0.031
Std Dev 0.9814
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

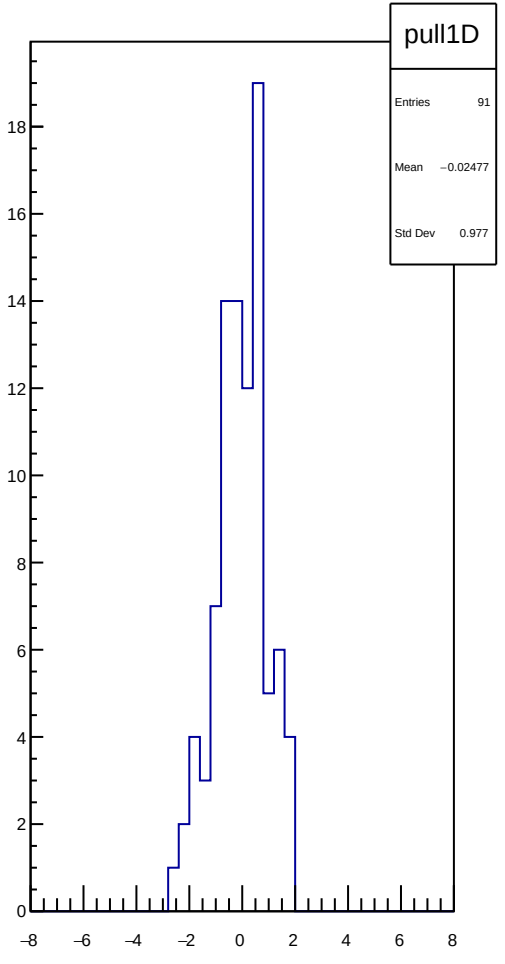

asym_atr1l2_avg_rms vs run
χ² / ndf 8413 / 90
p0 4747 ± 3.542
5600
5400
5200
5000
4800
4600
4400
4200
4000

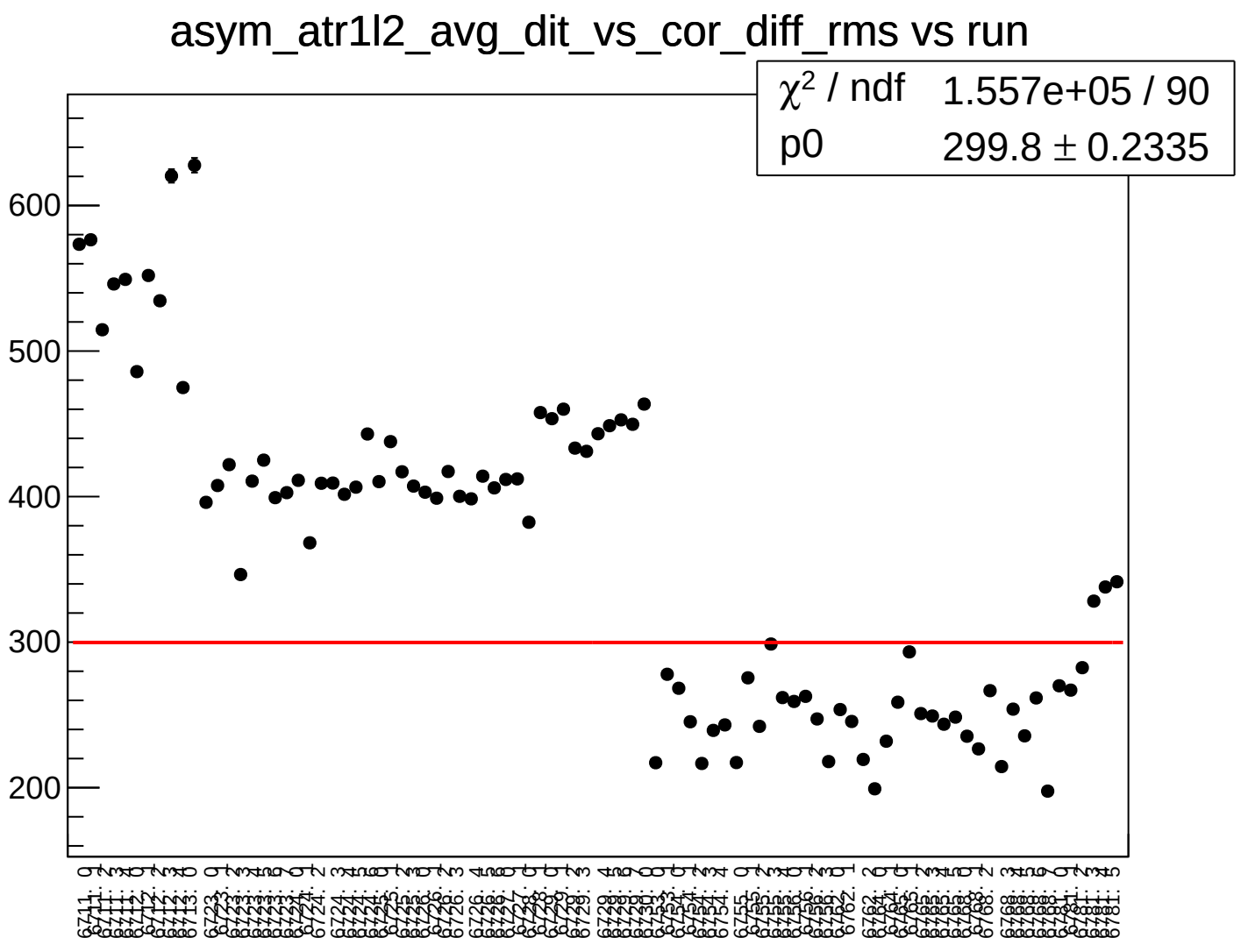

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 66.89 / 90
p0 −1.039e−14 ± 1.436e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 91
Mean 99.62
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

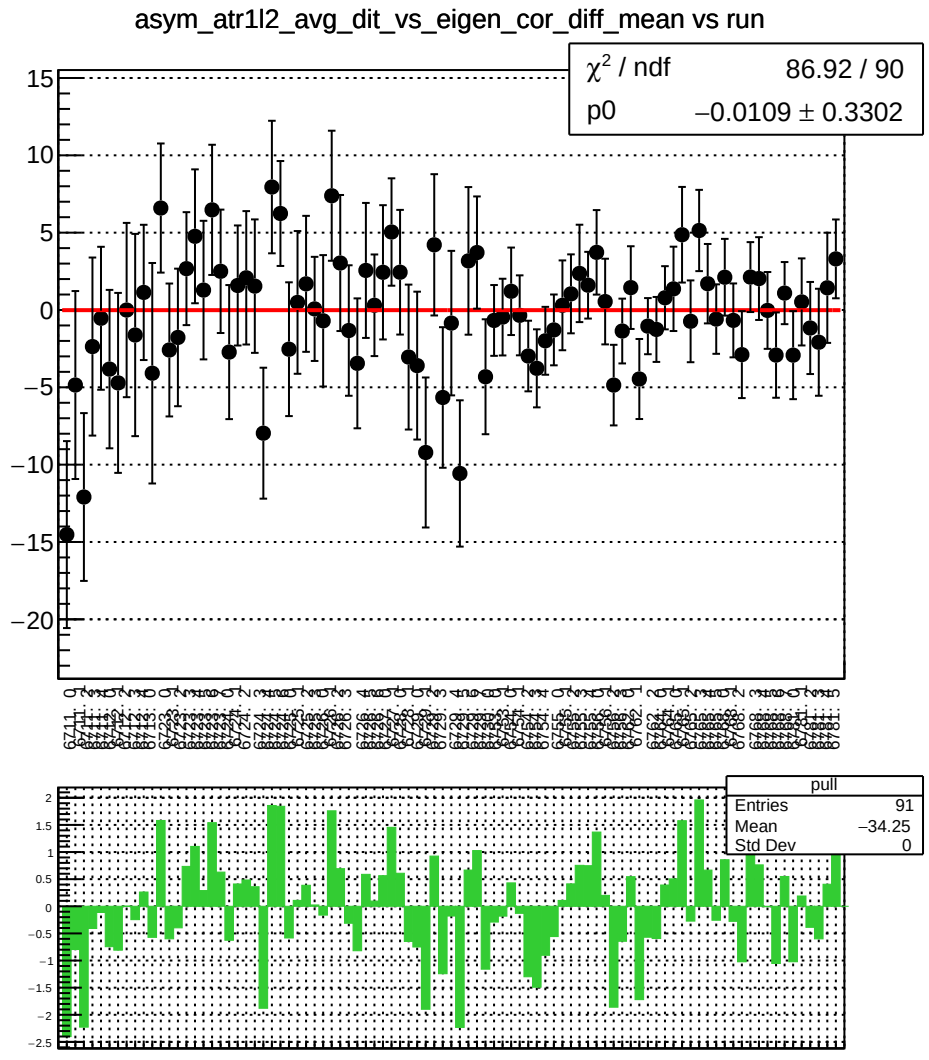

pull1D
Entries 91
Mean −0.0164
Std Dev 0.8572
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

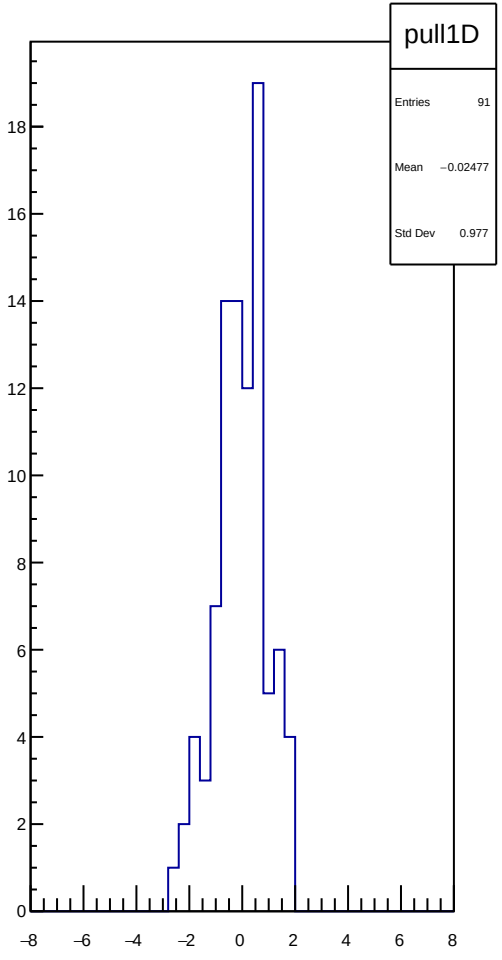

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.155e+06 / 90
p0 8.183e−11 ± 1.015e−13
1
0.8
0.6
0.4
0.2
0

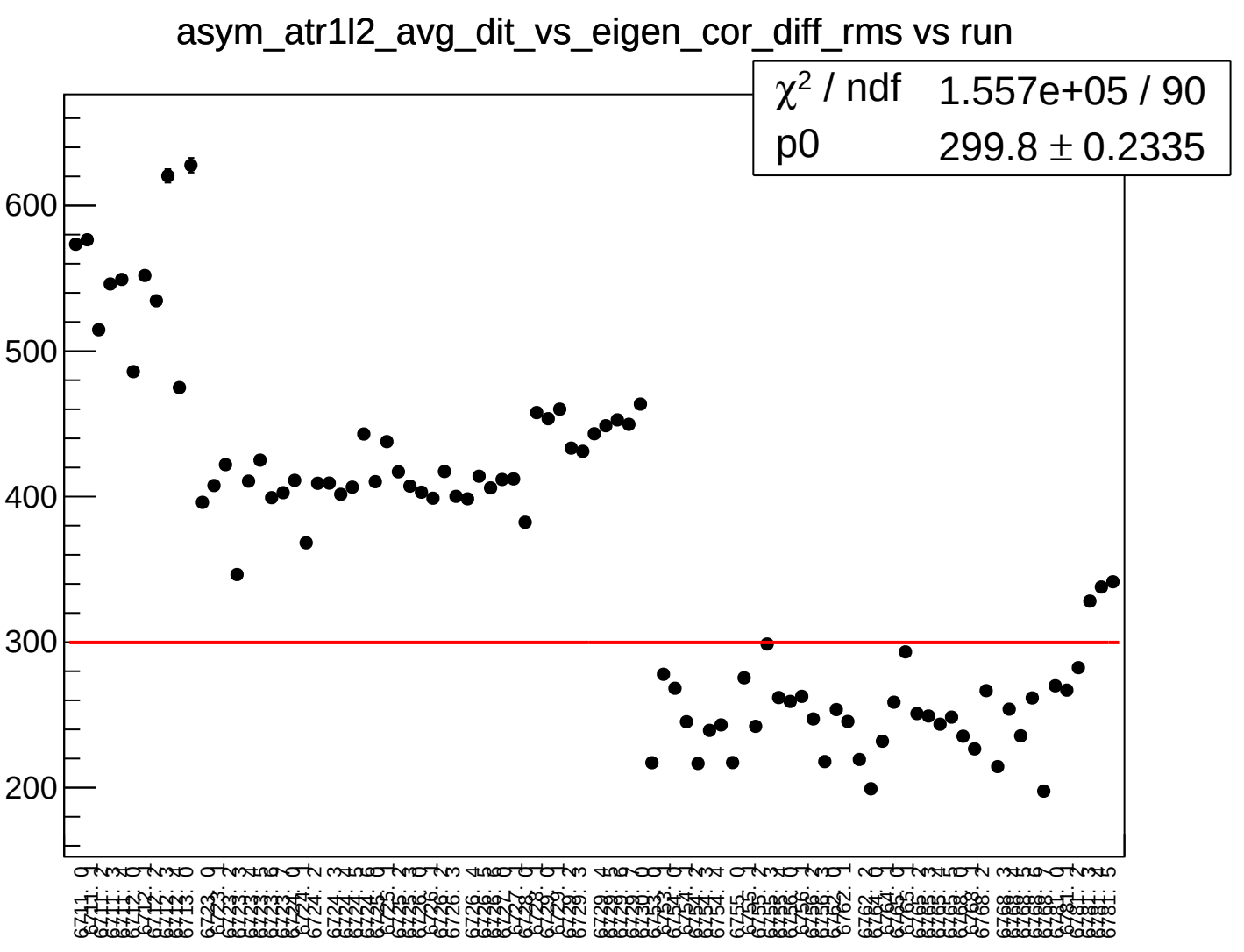

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.92 / 90
p0 −0.0109 ± 0.3302
pull
Entries 91
Mean −34.25
Std Dev 0

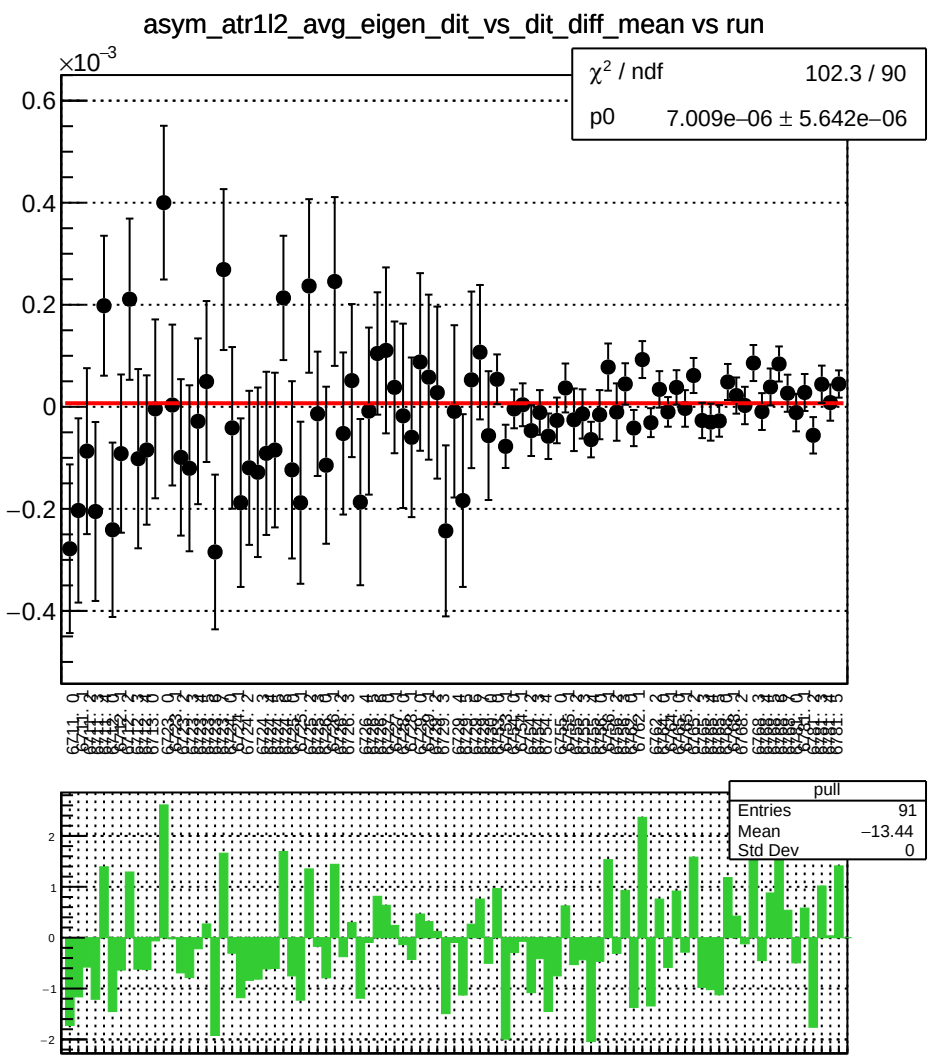

pull1D
Entries 91
Mean −0.02477
Std Dev 0.977

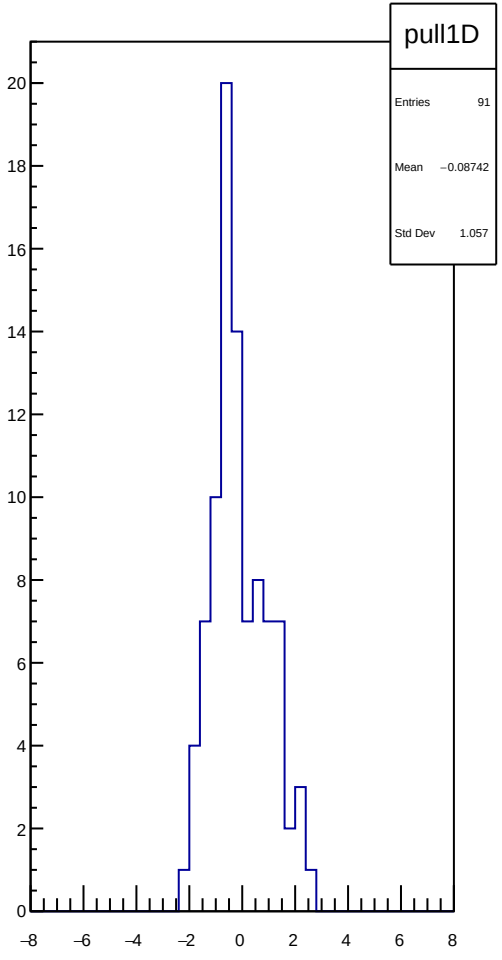

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.557e+05 / 90
p0 299.8 ± 0.2335
600
500
400
300
200

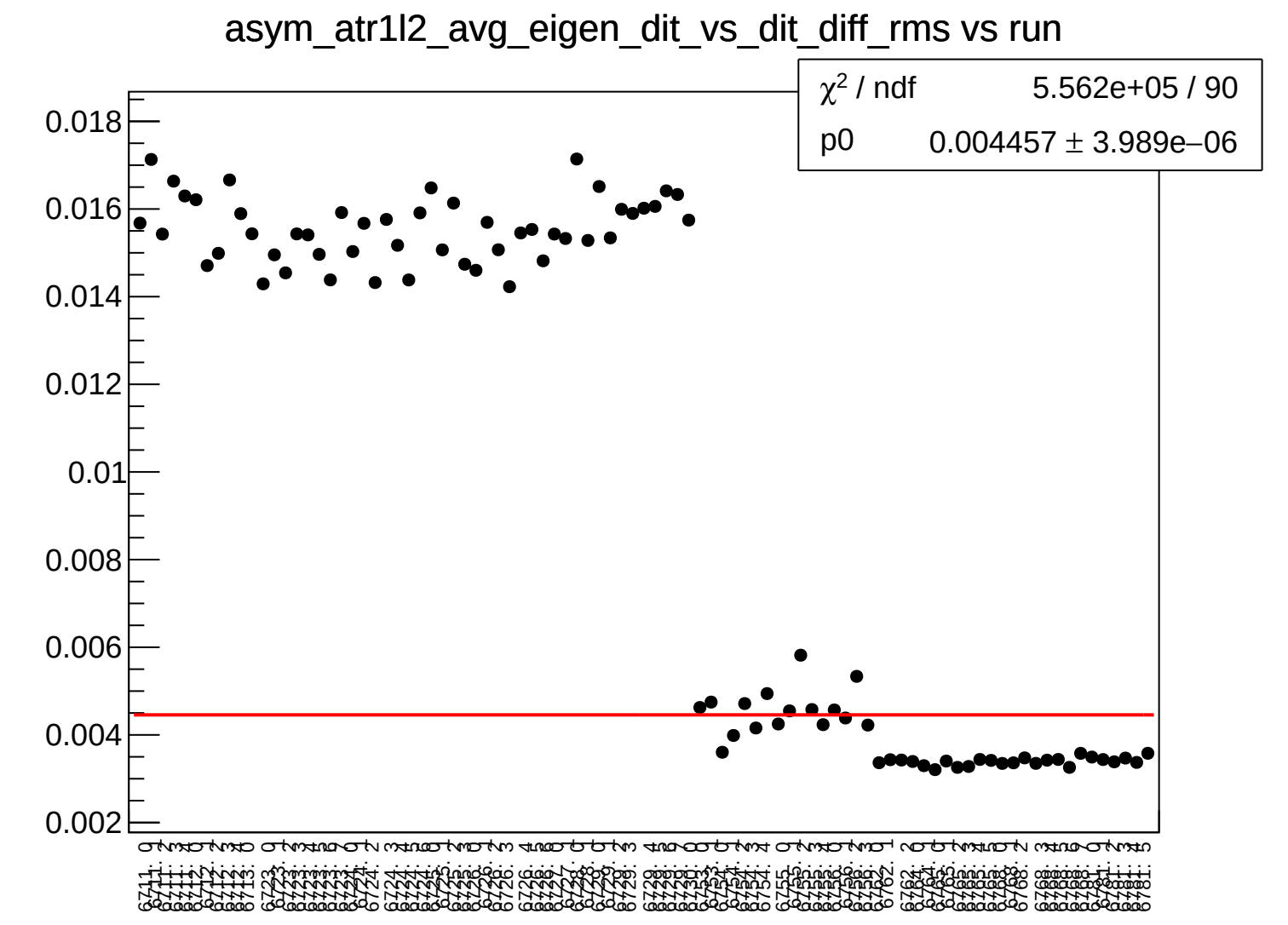

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.92 / 90
p0 −0.0109 ± 0.3302
pull
Entries 91
Mean −34.25
Std Dev 0

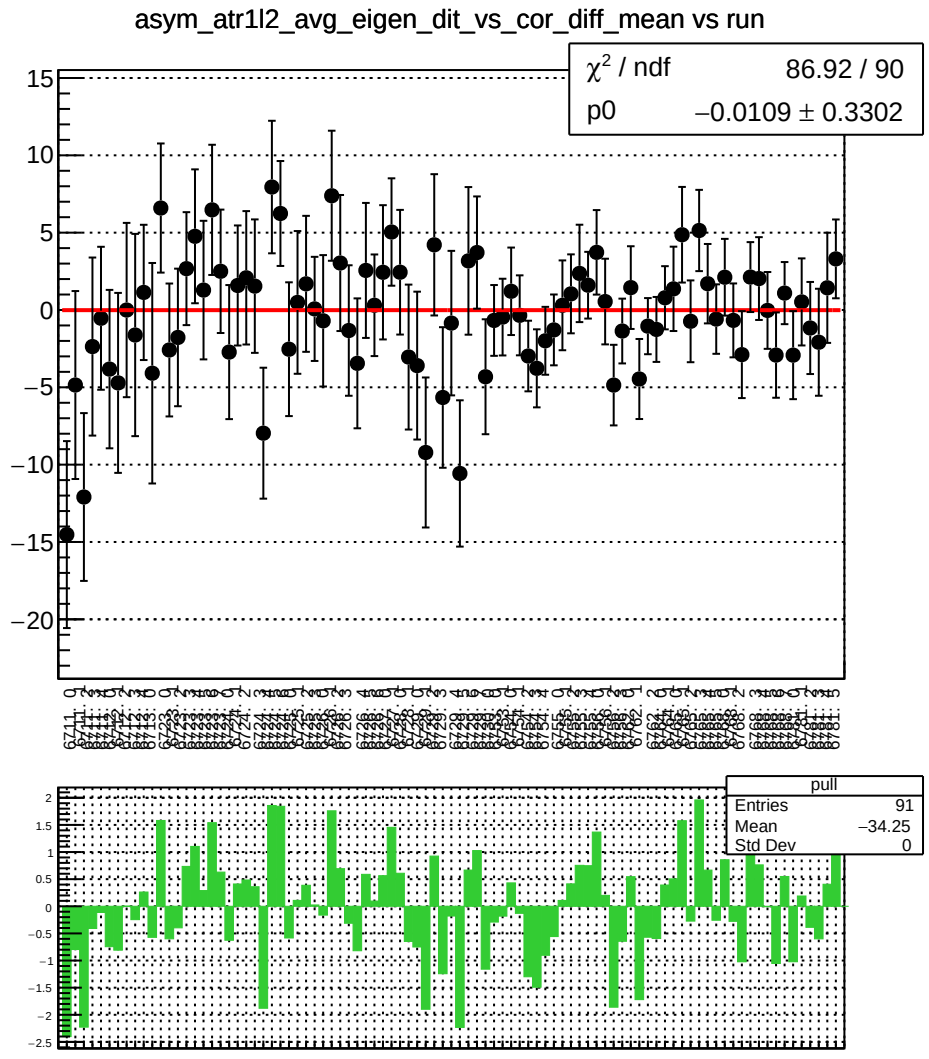

pull1D
Entries 91
Mean −0.02477
Std Dev 0.977

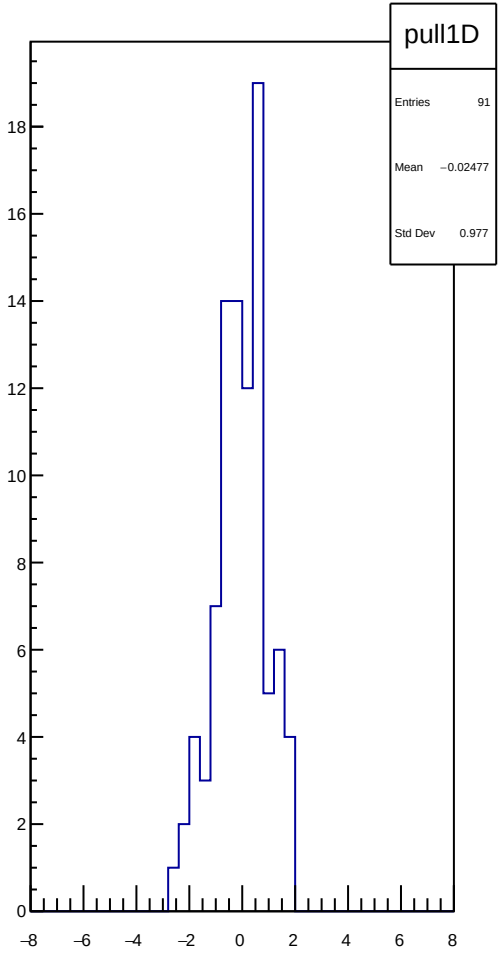

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.557e+05 / 90
p0 299.8 ± 0.2335
600
500
400
300
200

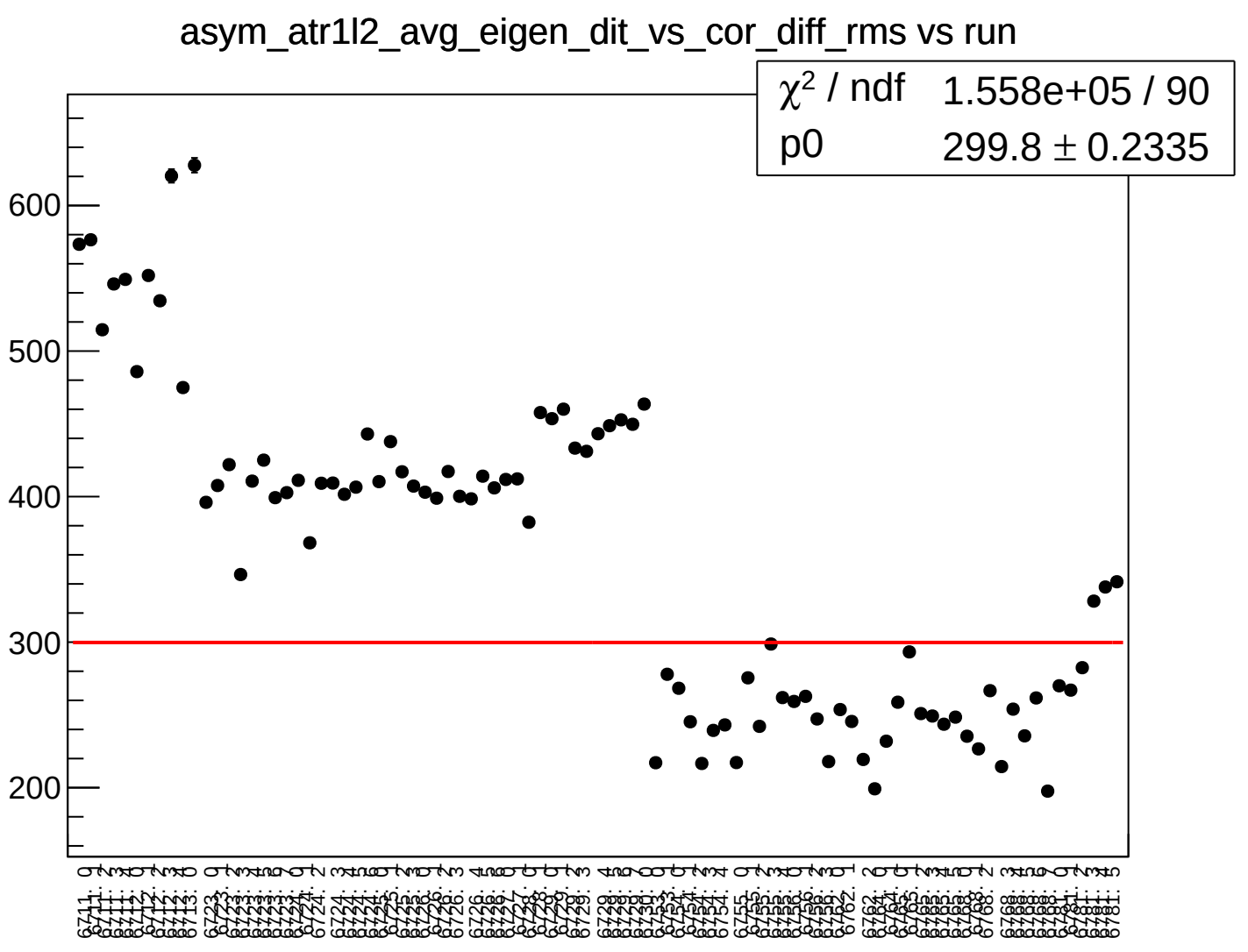

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.3 / 90
p0 7.009e−06 ± 5.642e−06
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 91
Mean −13.44
Std Dev 0
2
1
0
−1
−2

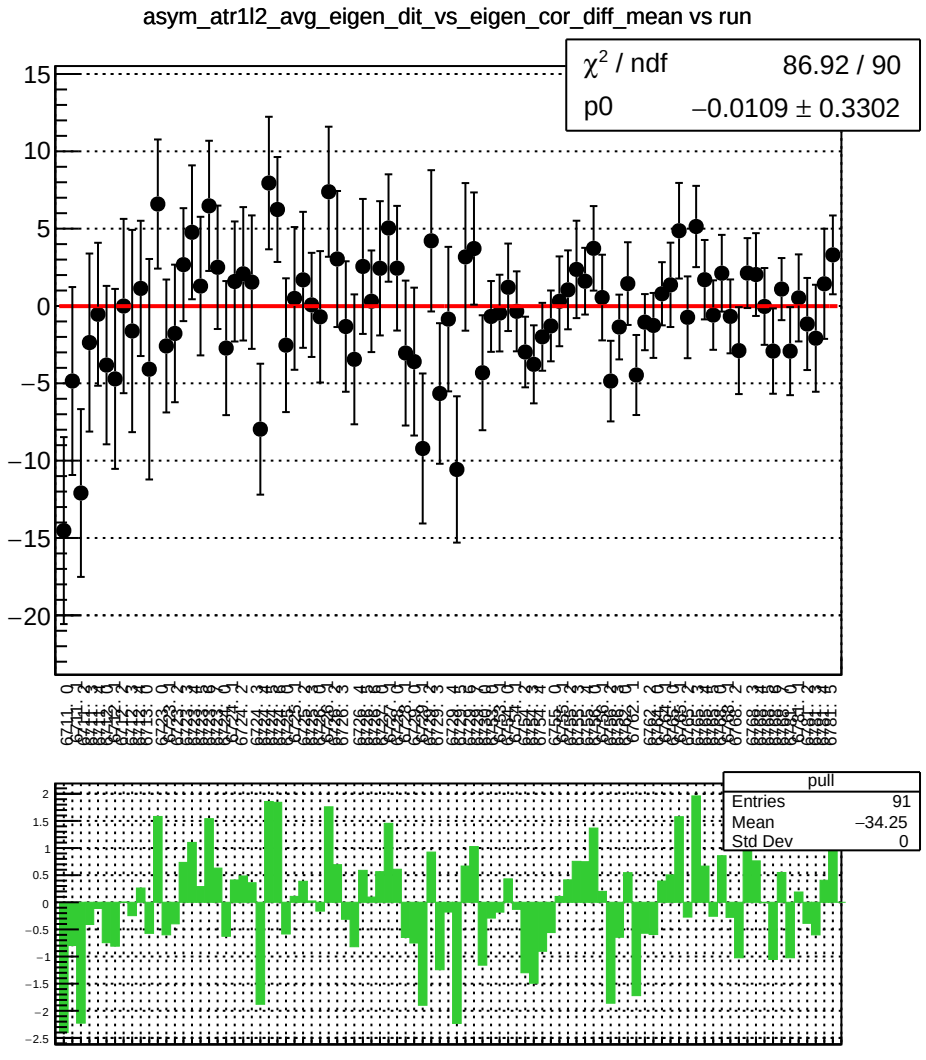

pull1D
Entries 91
Mean −0.08742
Std Dev 1.057
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

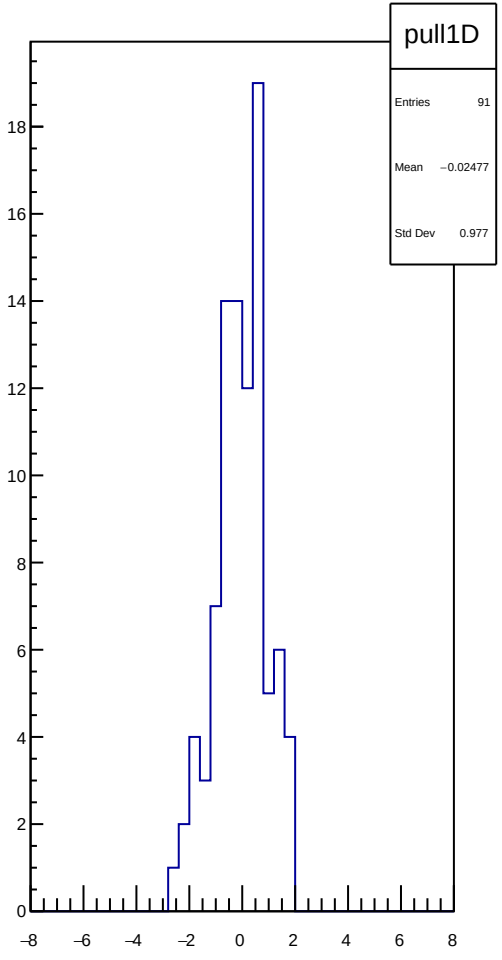

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.562e+05 / 90
p0 0.004457 ± 3.989e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

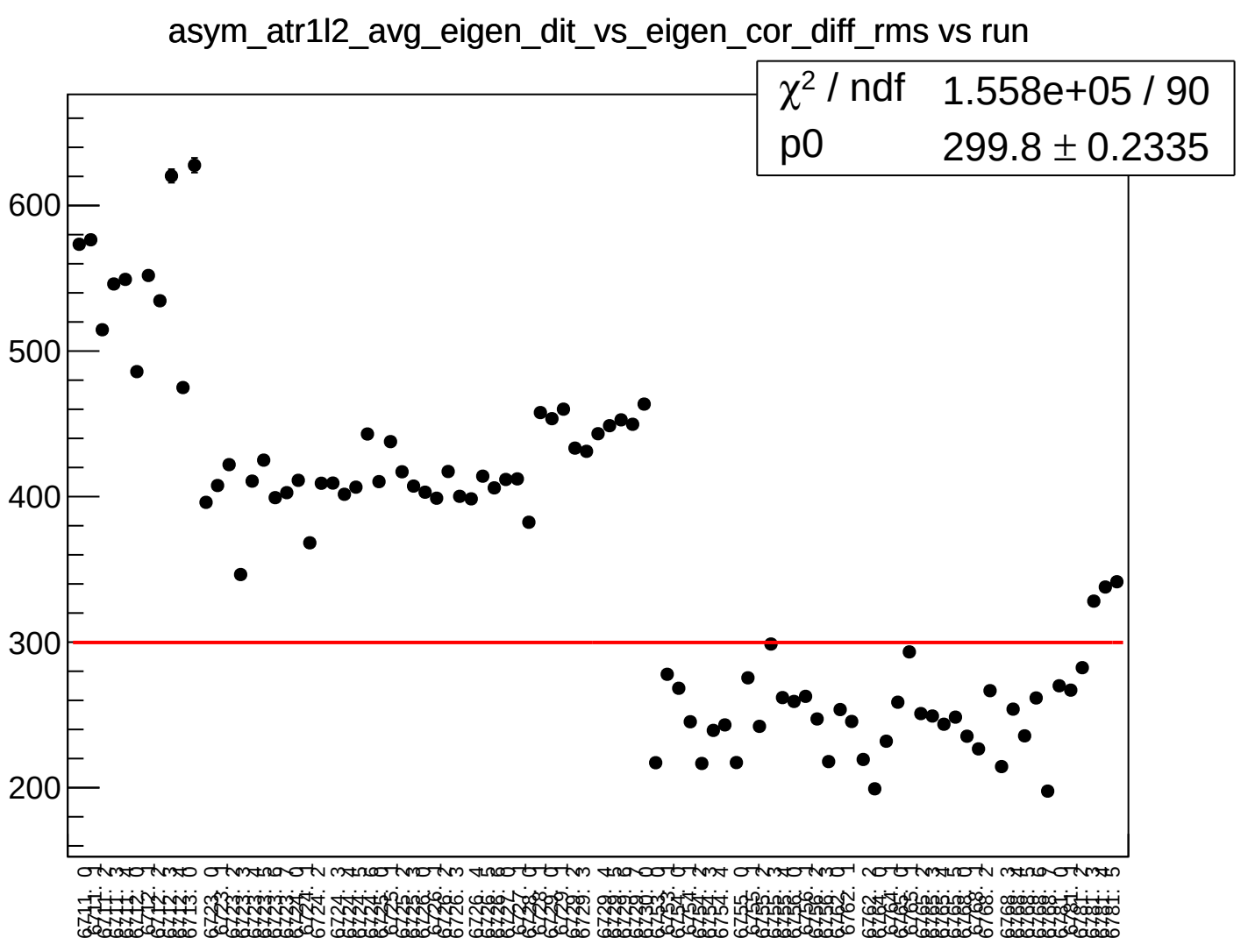

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.92 / 90
p0 −0.0109 ± 0.3302
pull
Entries 91
Mean −34.25
Std Dev 0

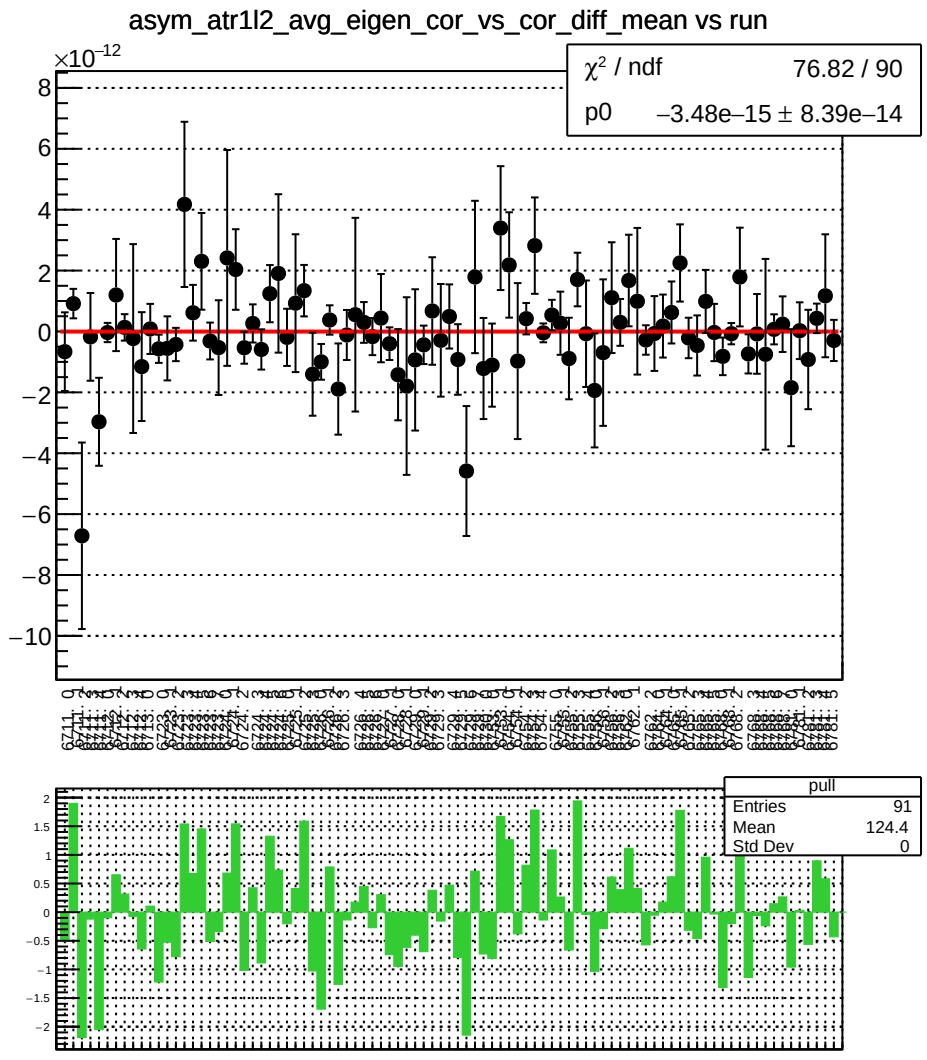

pull1D
Entries 91
Mean −0.02477
Std Dev 0.977

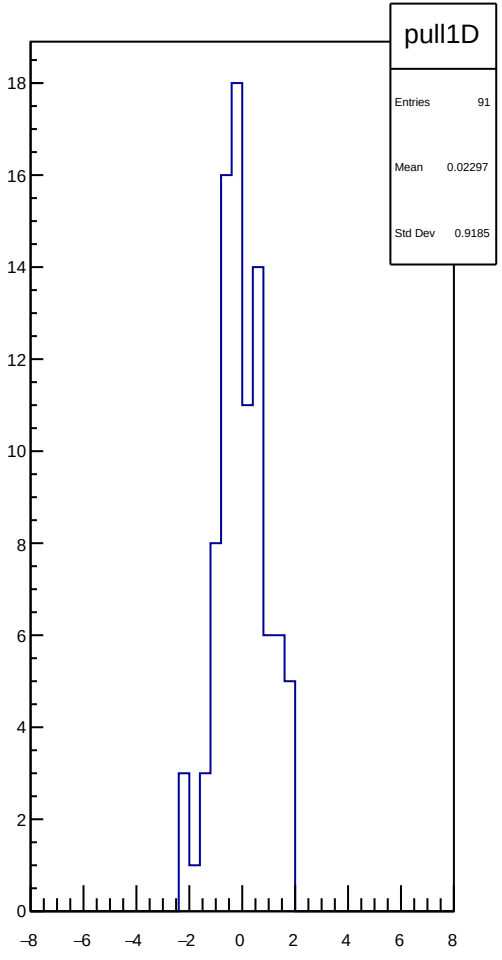

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.558e+05 / 90
p0 299.8 ± 0.2335
600
500
400
300
200

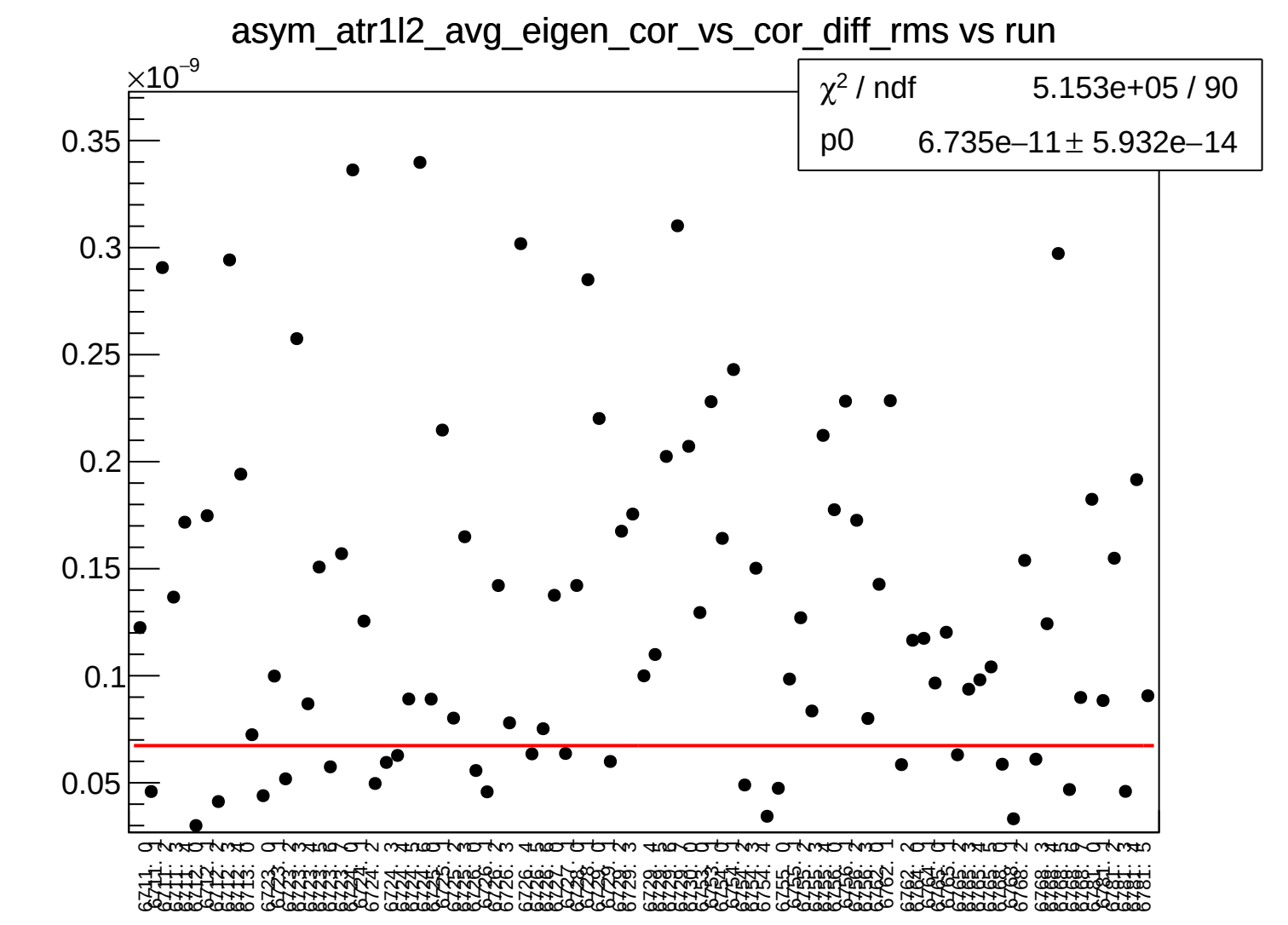

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.92 / 90
p0 −0.0109 ± 0.3302
pull
Entries 91
Mean −34.25
Std Dev 0

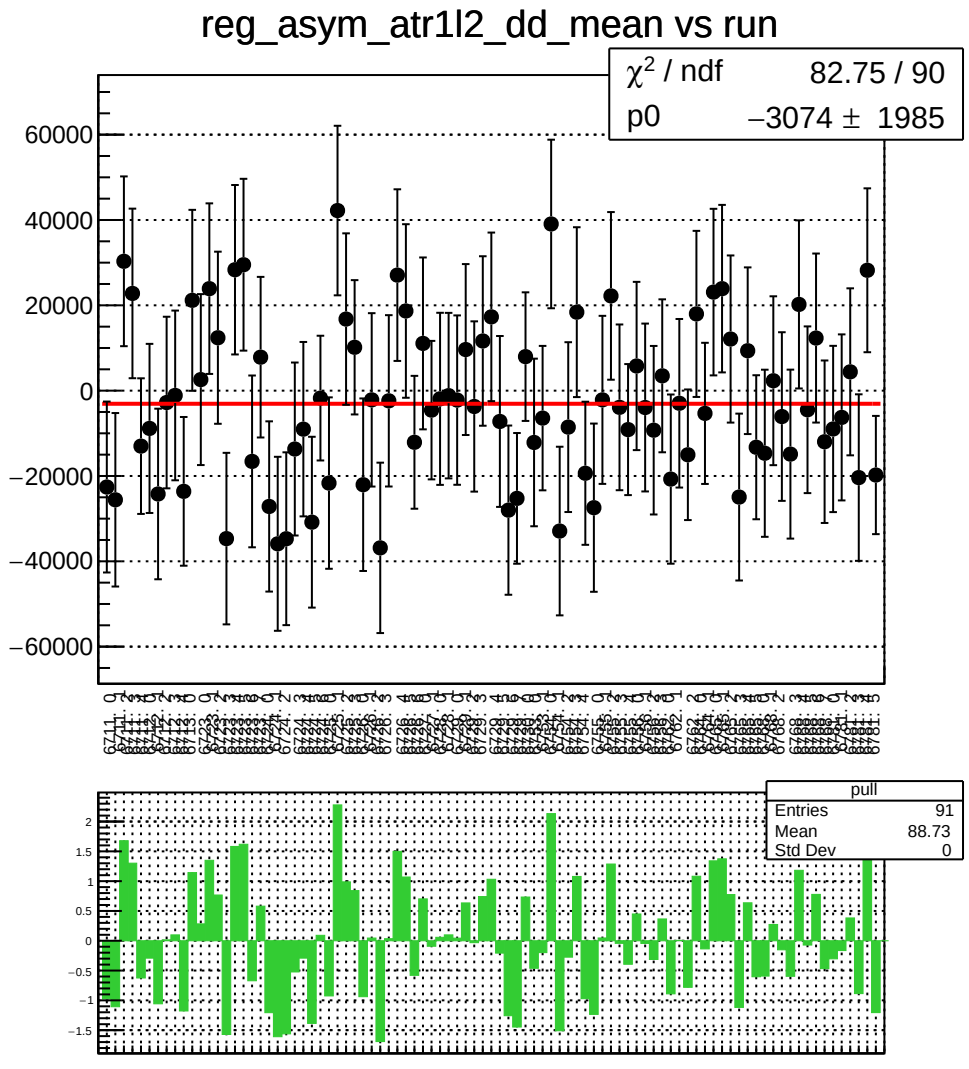

pull1D
Entries 91
Mean −0.02477
Std Dev 0.977

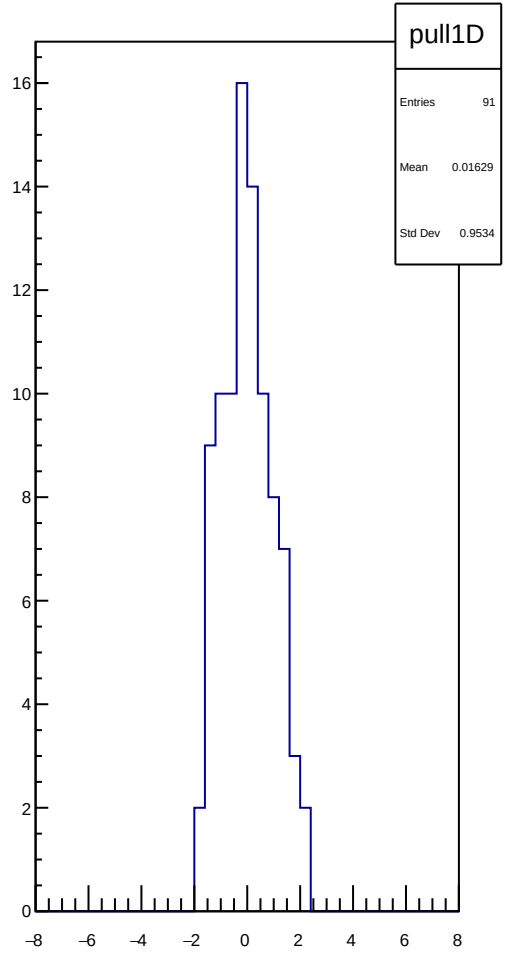

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.558e+05 / 90
p0 299.8 ± 0.2335
600
500
400
300
200

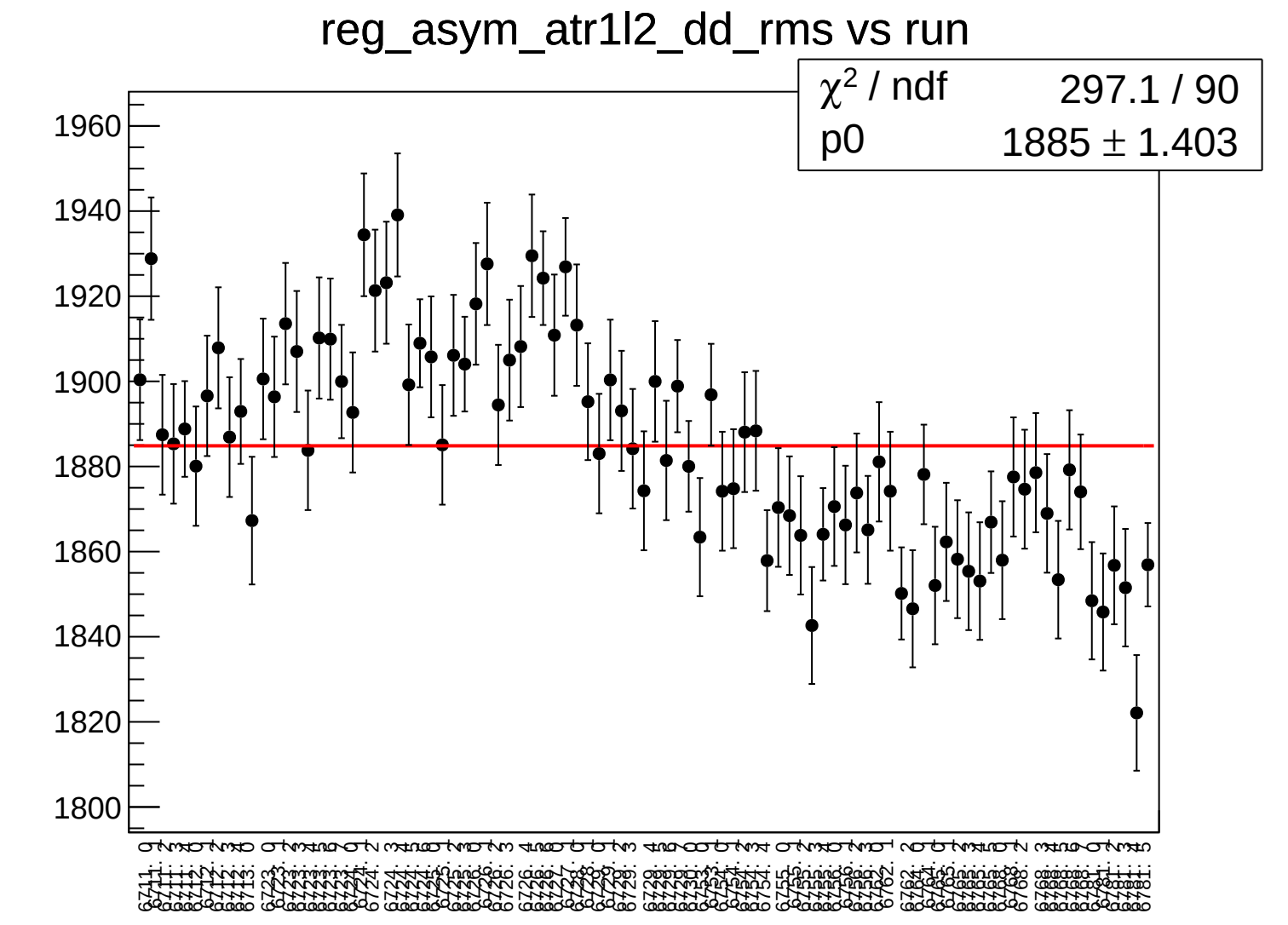

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.82 / 90
p0 −3.48e−15 ± 8.39e−14
pull
Entries 91
Mean 124.4
Std Dev 0

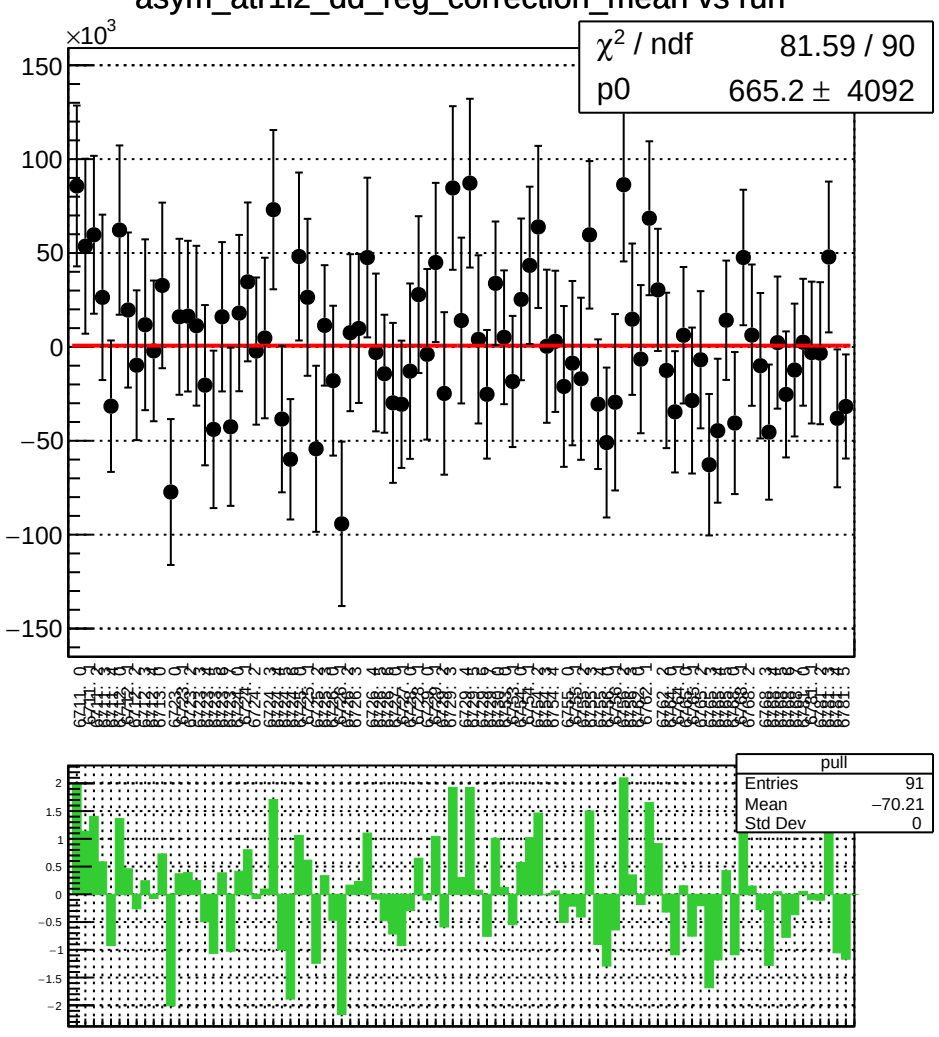

pull1D
Entries 91
Mean 0.02297
Std Dev 0.9185

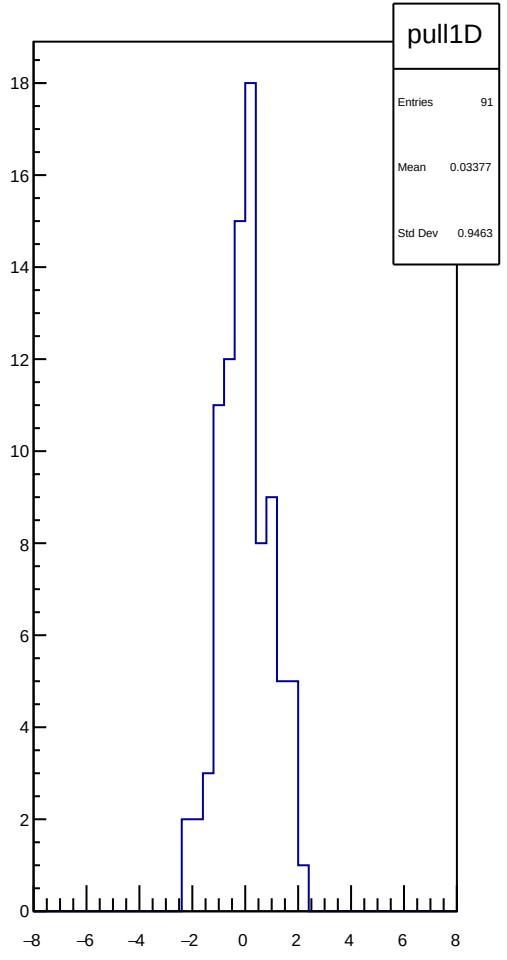

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.153e+05 / 90
p0 6.735e−11 ± 5.932e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

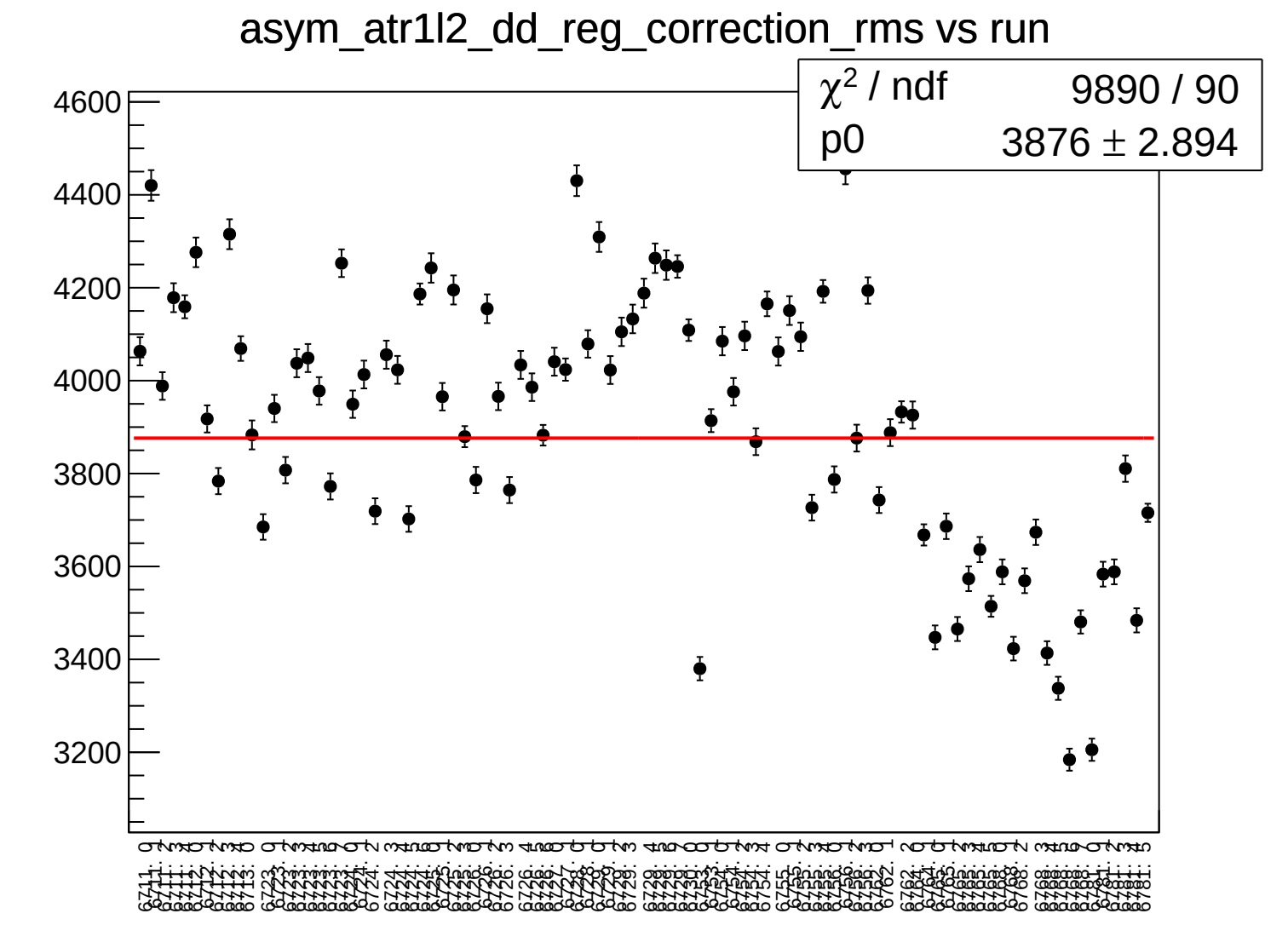

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 82.75 / 90
p0 −3074 ± 1985
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 88.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

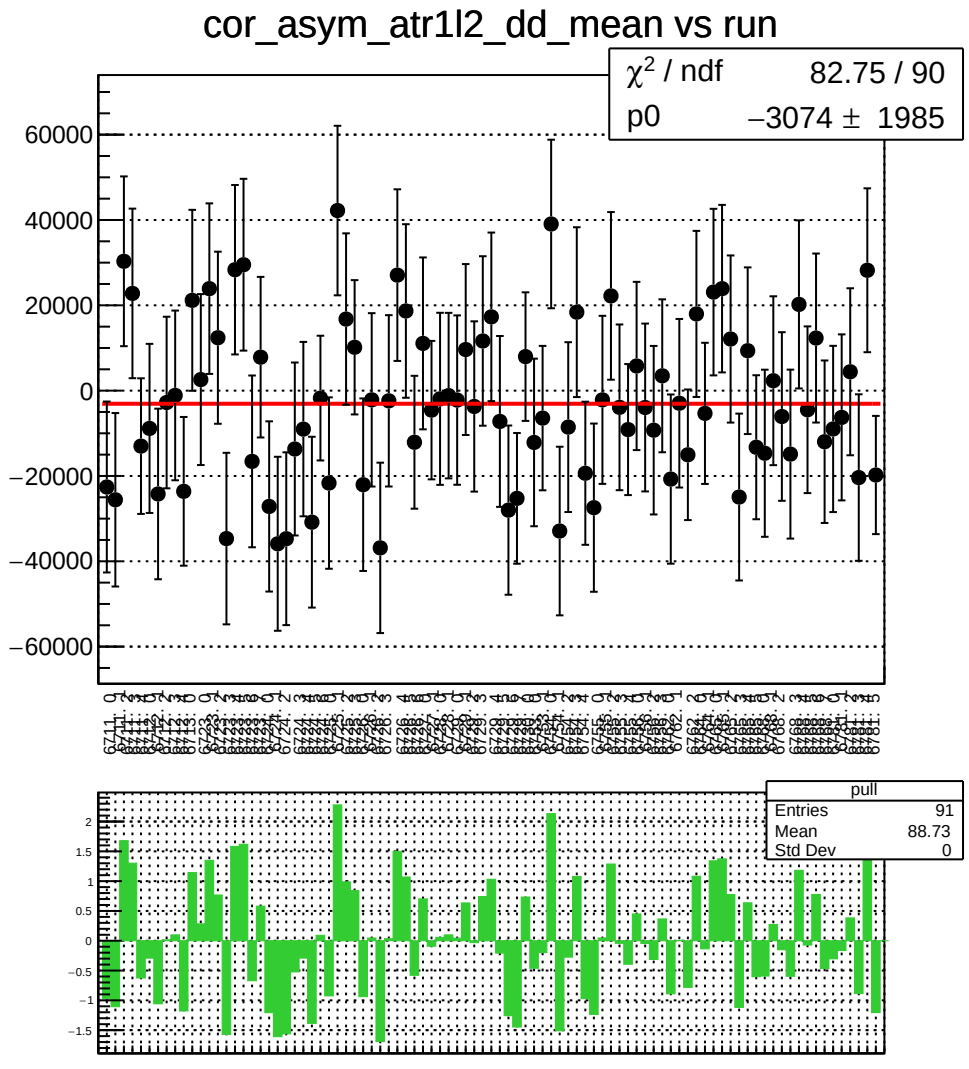

pull1D
Entries 91
Mean 0.01629
Std Dev 0.9534
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

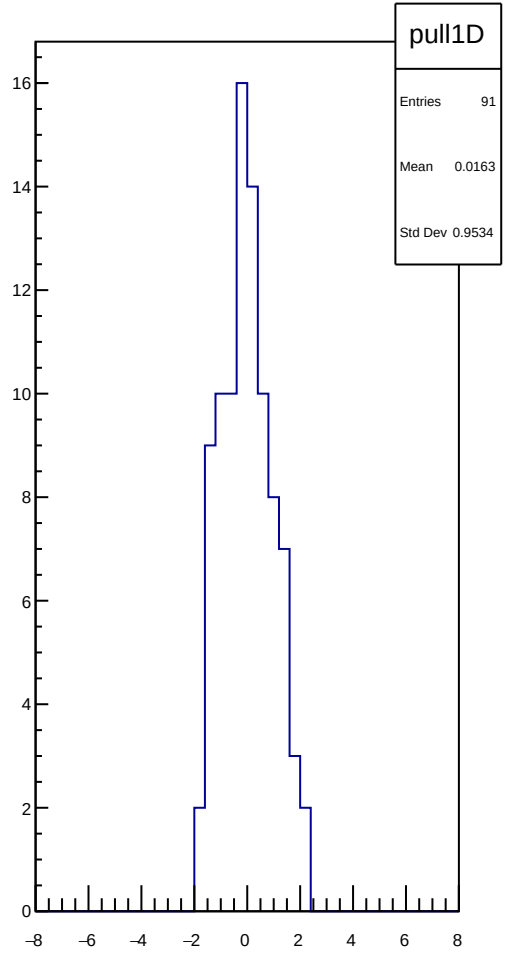

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 297.1 / 90
p0 1885 ± 1.403
1960
1940
1920
1900
1880
1860
1840
1820
1800

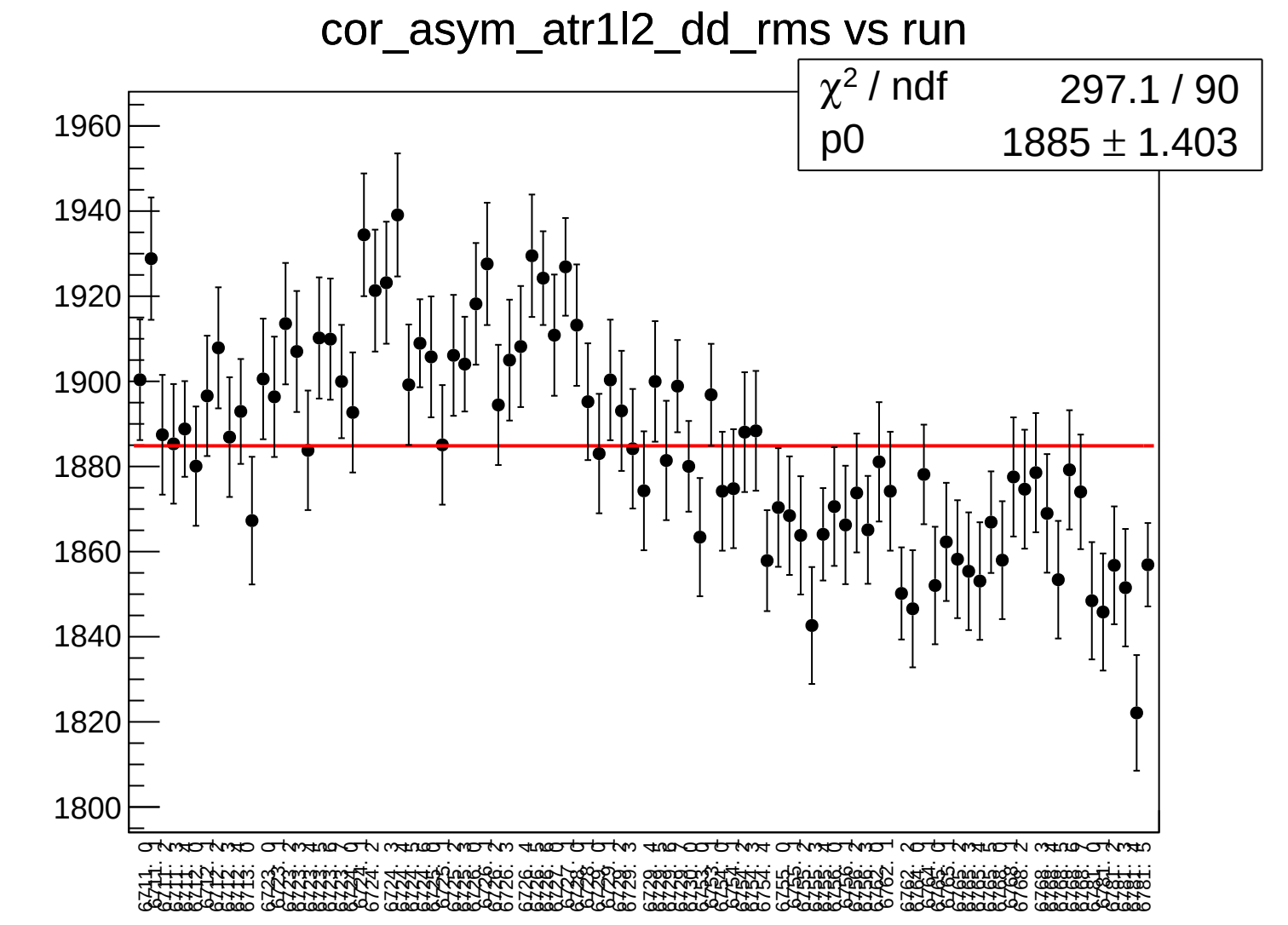

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 81.59 / 90
p0 665.2 ± 4092
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −70.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

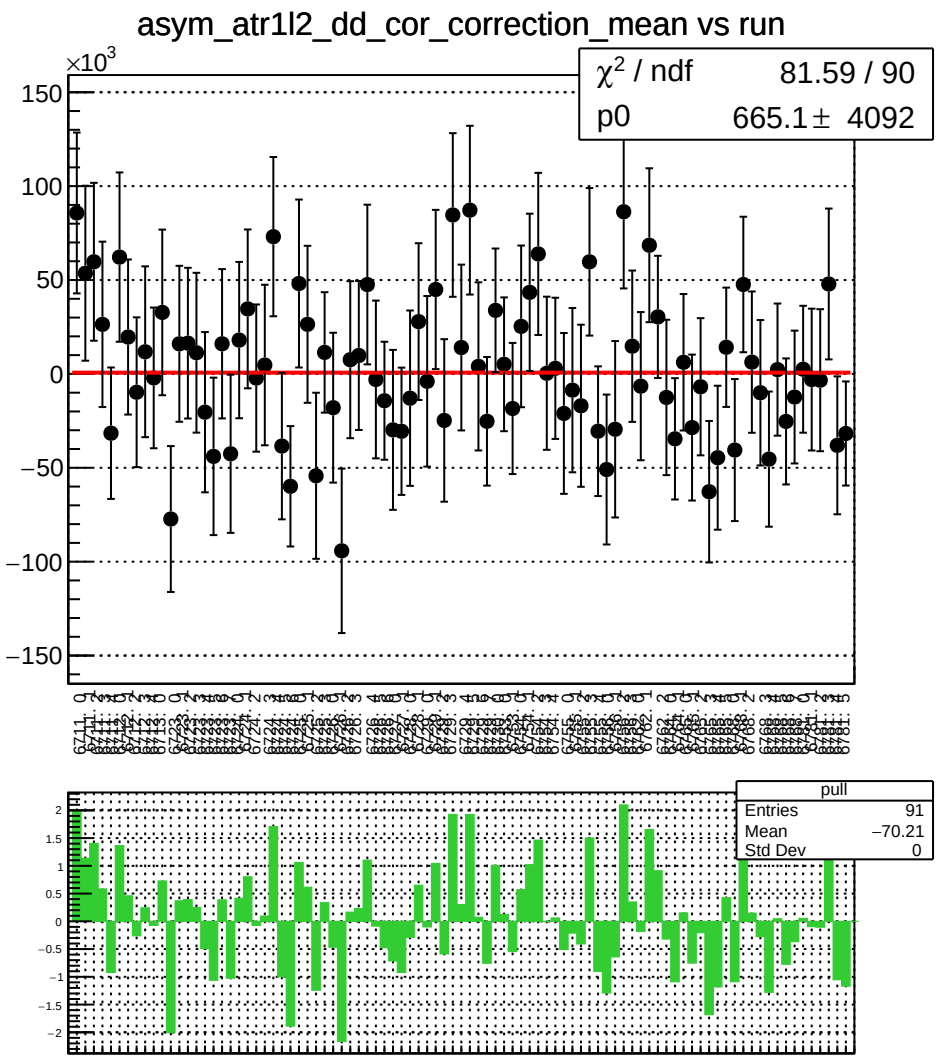

pull1D
Entries 91
Mean 0.03377
Std Dev 0.9463
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

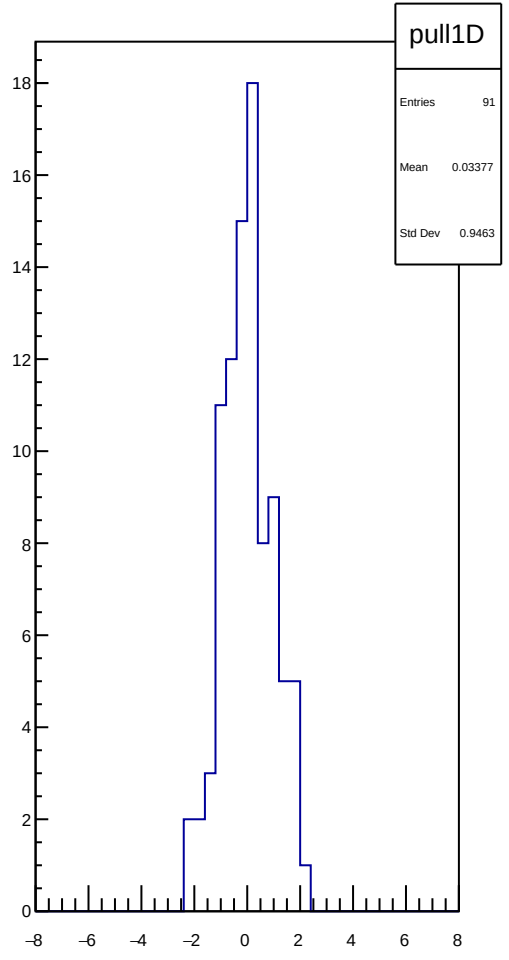

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 9890 / 90
p0 3876 ± 2.894
4600
4400
4200
4000
3800
3600
3400
3200

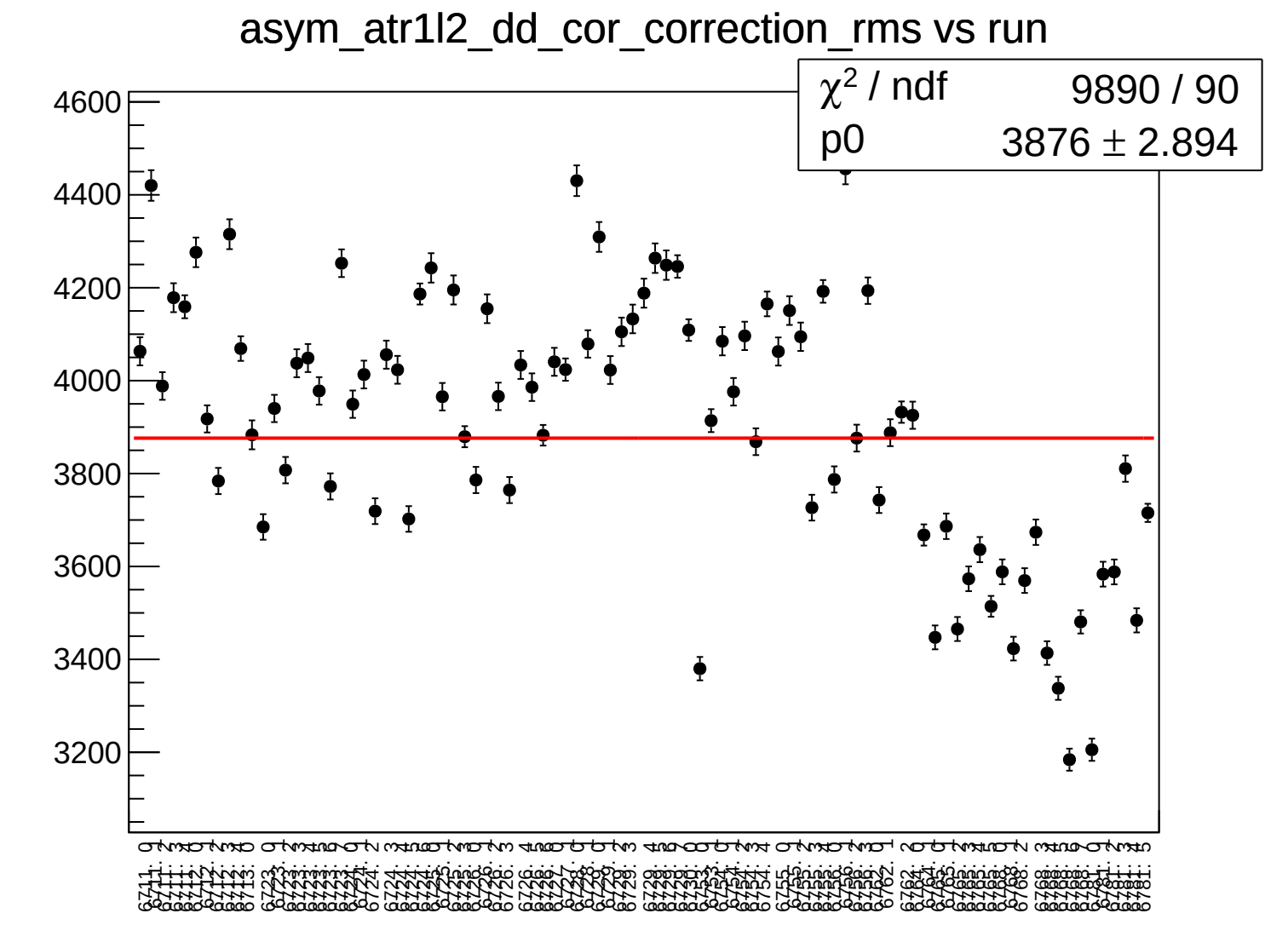

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 82.75 / 90
p0 −3074 ± 1985
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 88.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

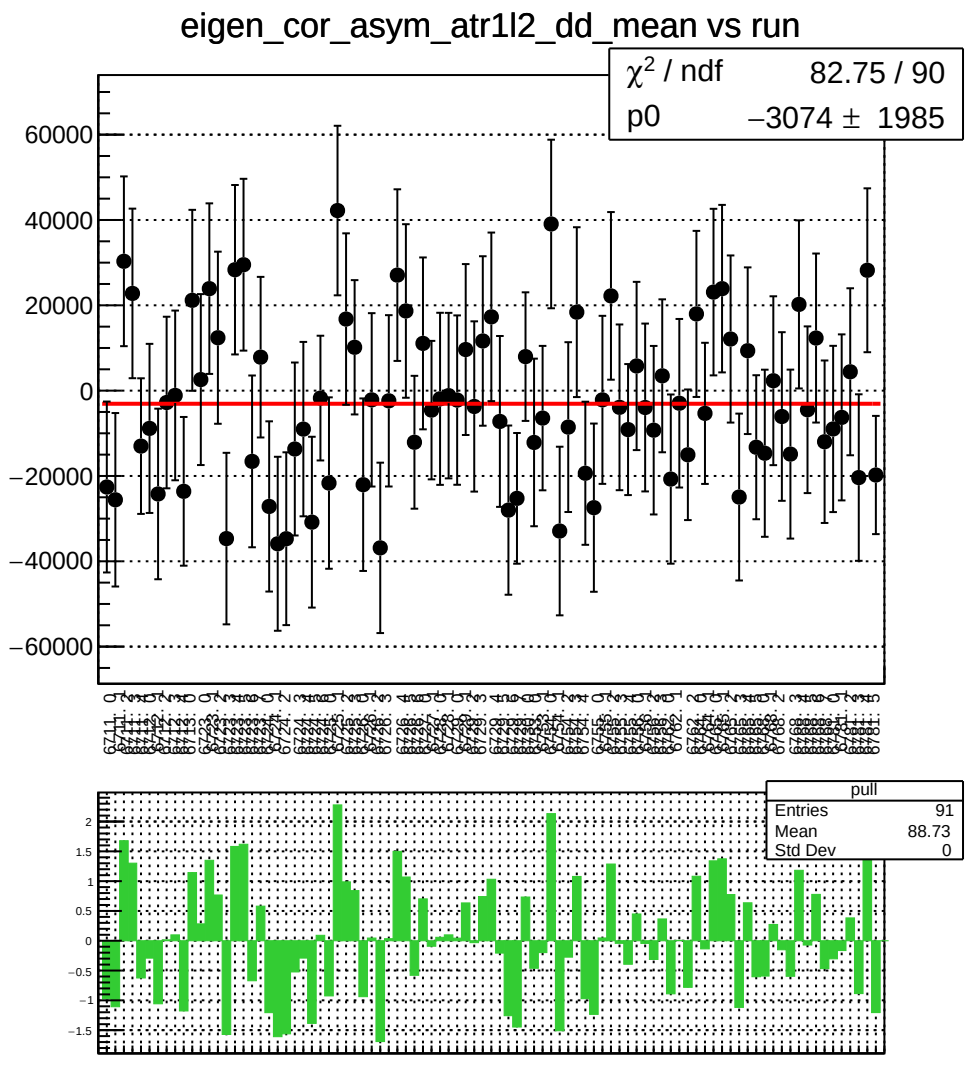

pull1D
Entries 91
Mean 0.0163
Std Dev 0.9534
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

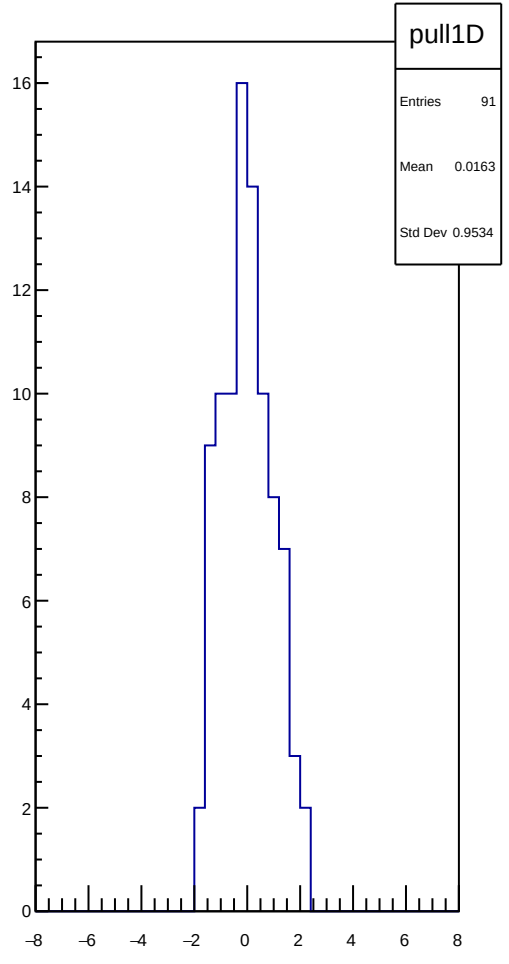

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 297.1 / 90
p0 1885 ± 1.403
1960
1940
1920
1900
1880
1860
1840
1820
1800

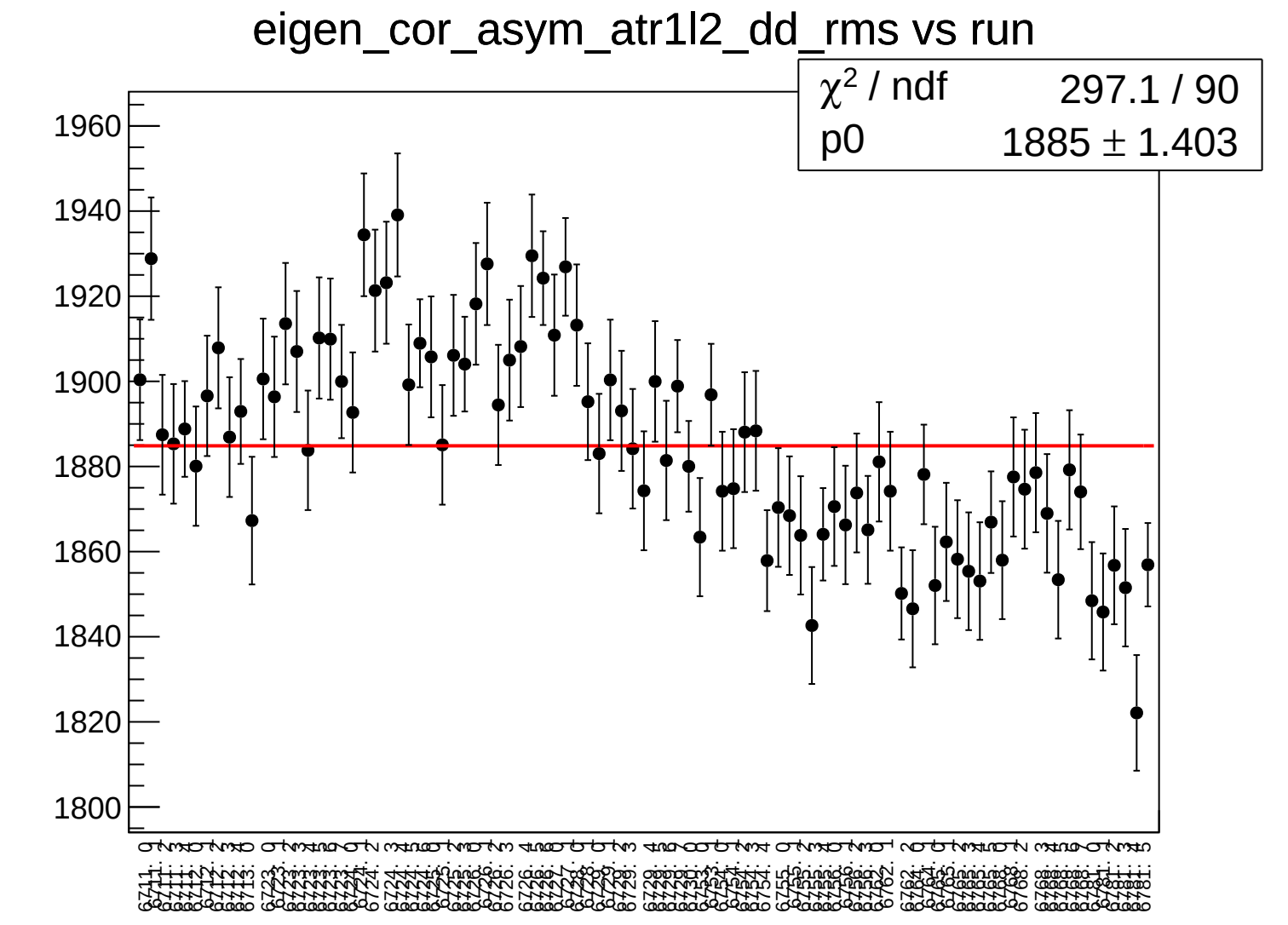

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 81.59 / 90
p0 665.1 ± 4092
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −70.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

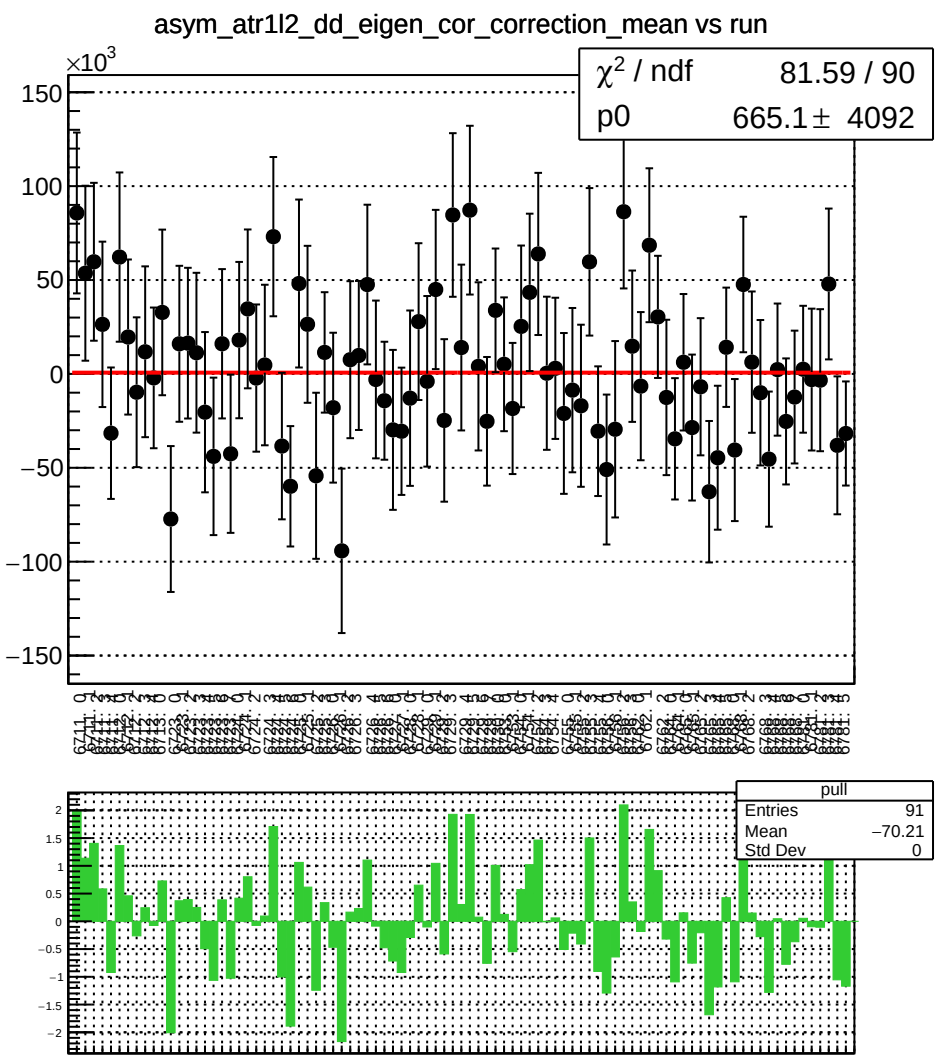

pull1D
Entries 91
Mean 0.03377
Std Dev 0.9463
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

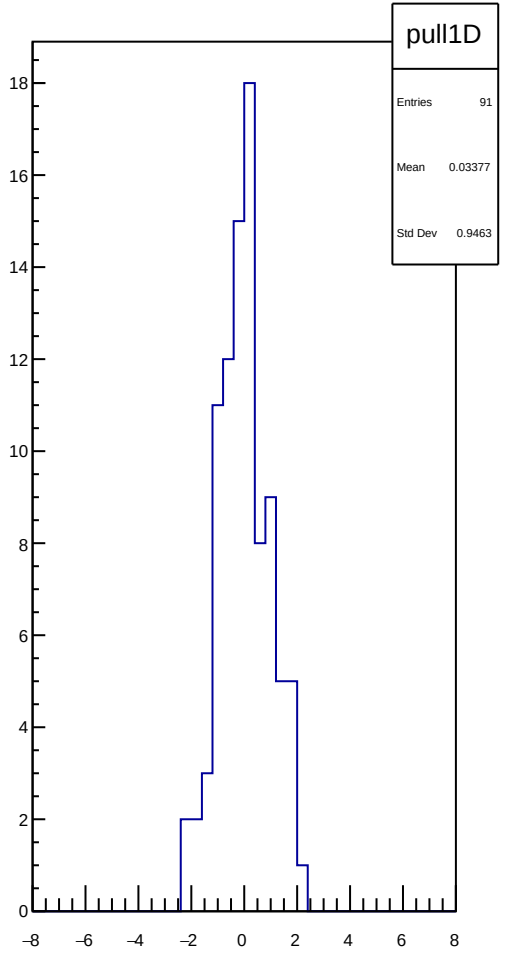

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 9890 / 90
p0 3876 ± 2.894
4600
4400
4200
4000
3800
3600
3400
3200

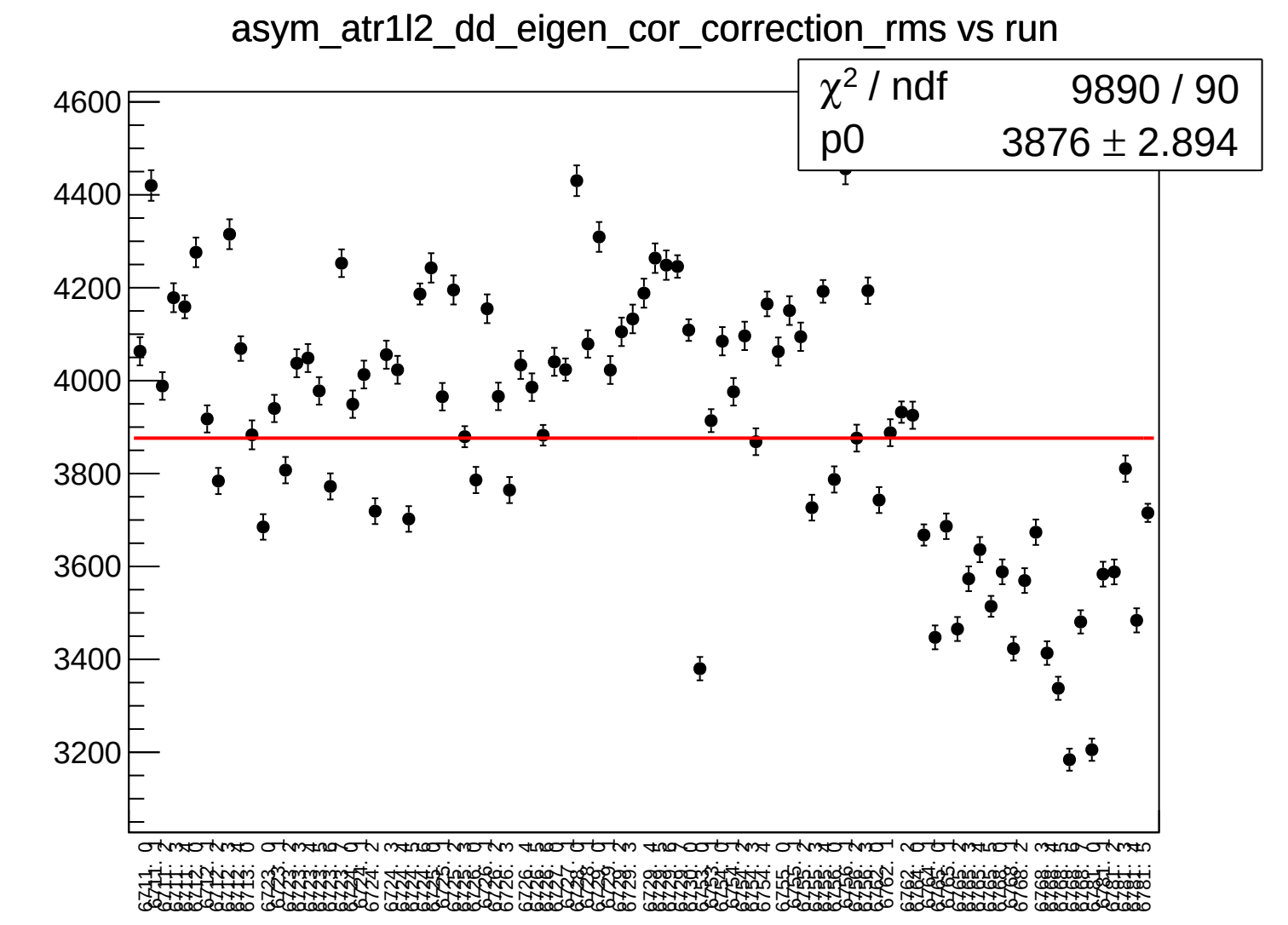

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 82.75 / 90
p0 −3074 ± 1985
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 88.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

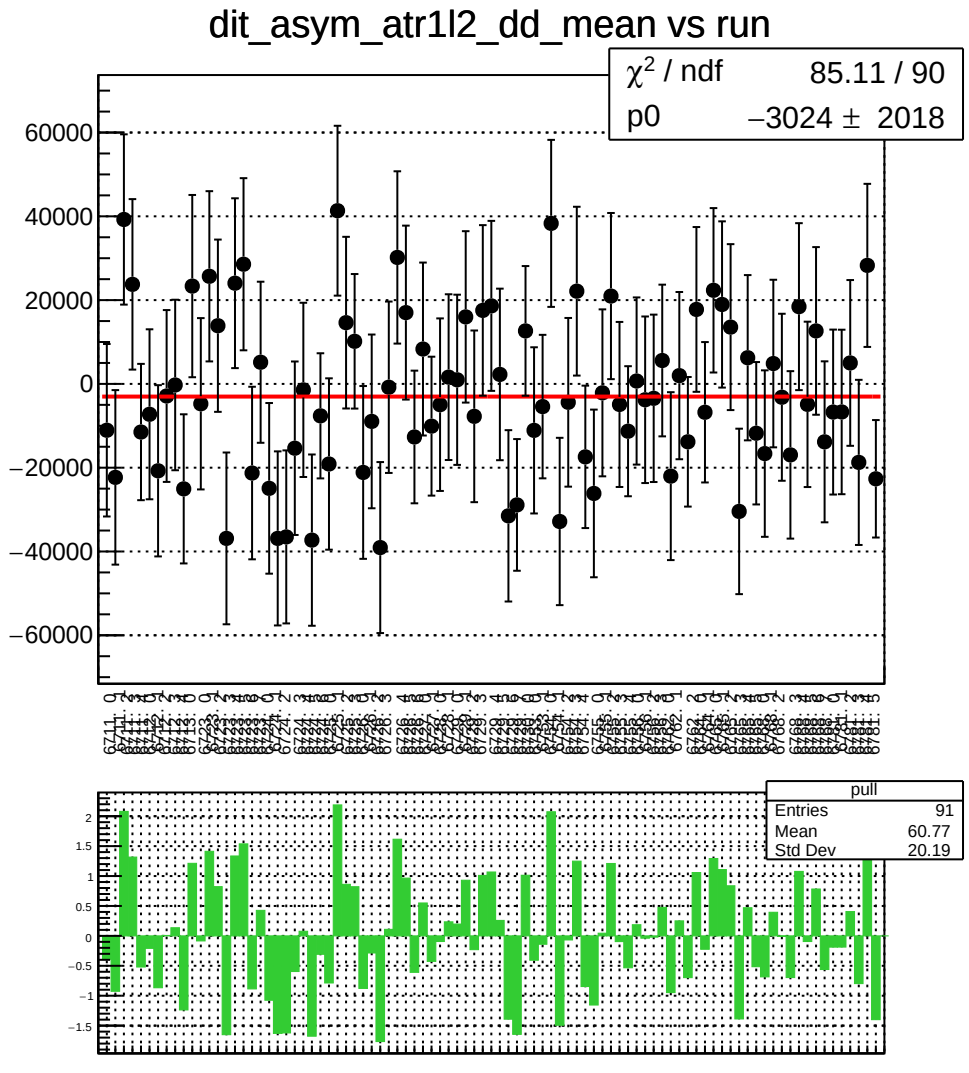

pull1D
Entries 91
Mean 0.0163
Std Dev 0.9534
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

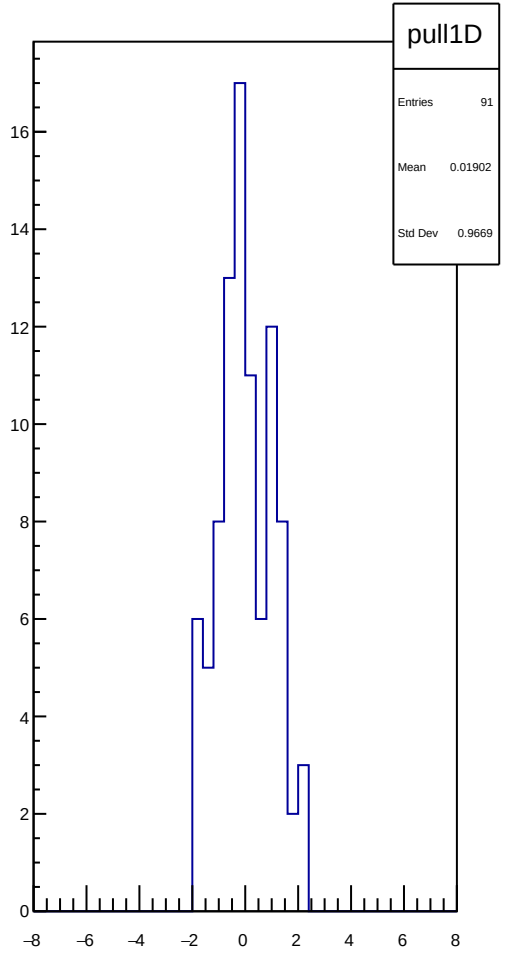

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 297.1 / 90
p0 1885 ± 1.403
1960
1940
1920
1900
1880
1860
1840
1820
1800

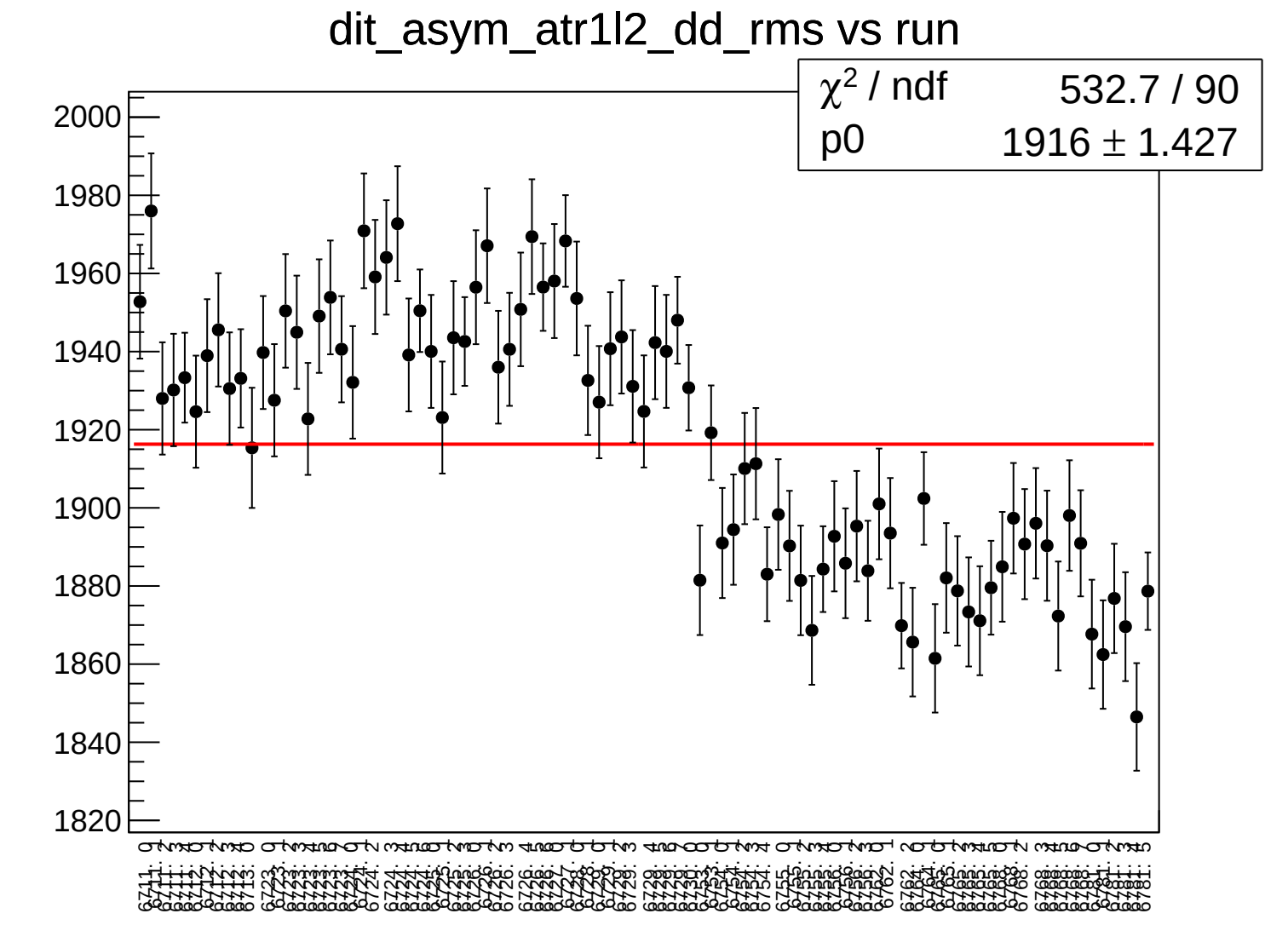

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 81.59 / 90
p0 665.1 ± 4092
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −70.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

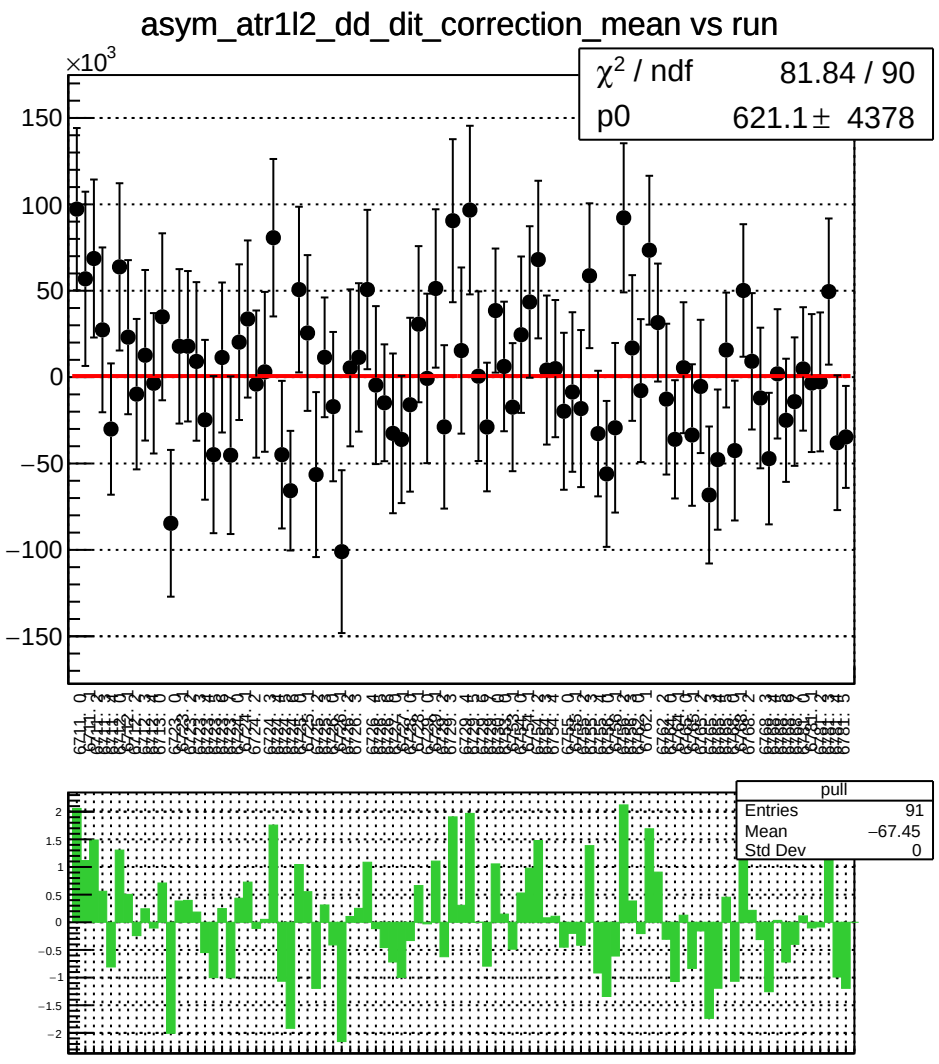

pull1D
Entries 91
Mean 0.03377
Std Dev 0.9463
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

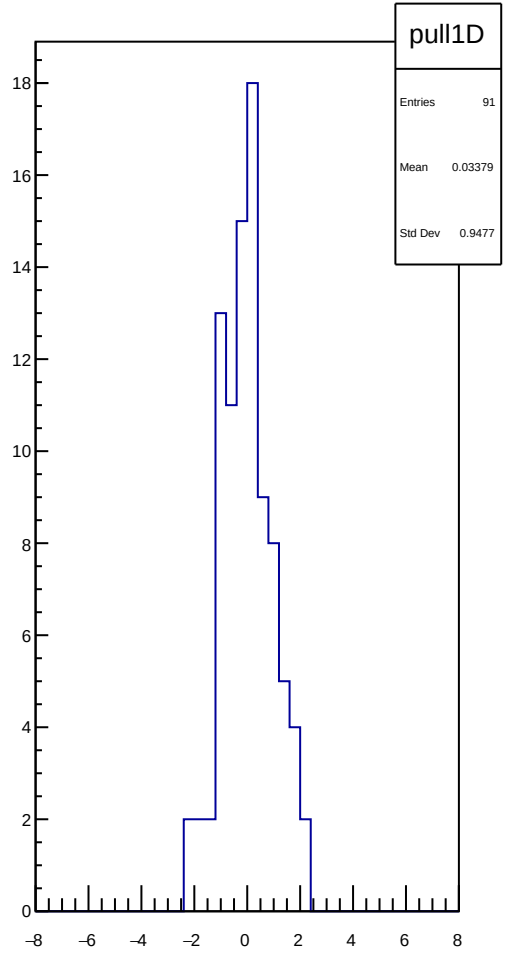

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 9890 / 90
p0 3876 ± 2.894
4600
4400
4200
4000
3800
3600
3400
3200

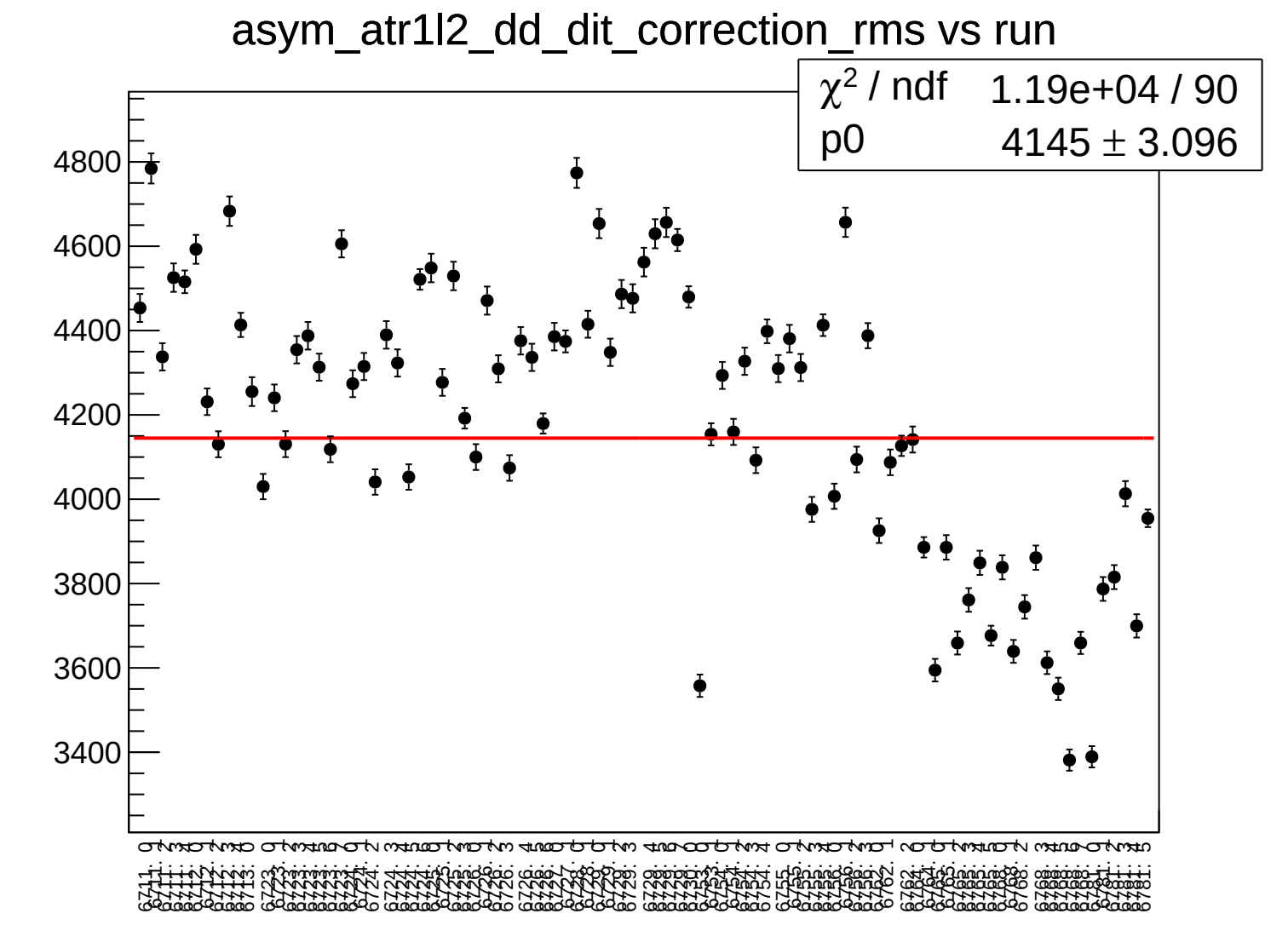

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 85.11 / 90
p0 −3024 ± 2018
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 60.77
Std Dev 20.19
2
1.5
1
0.5
0
−0.5
−1
−1.5

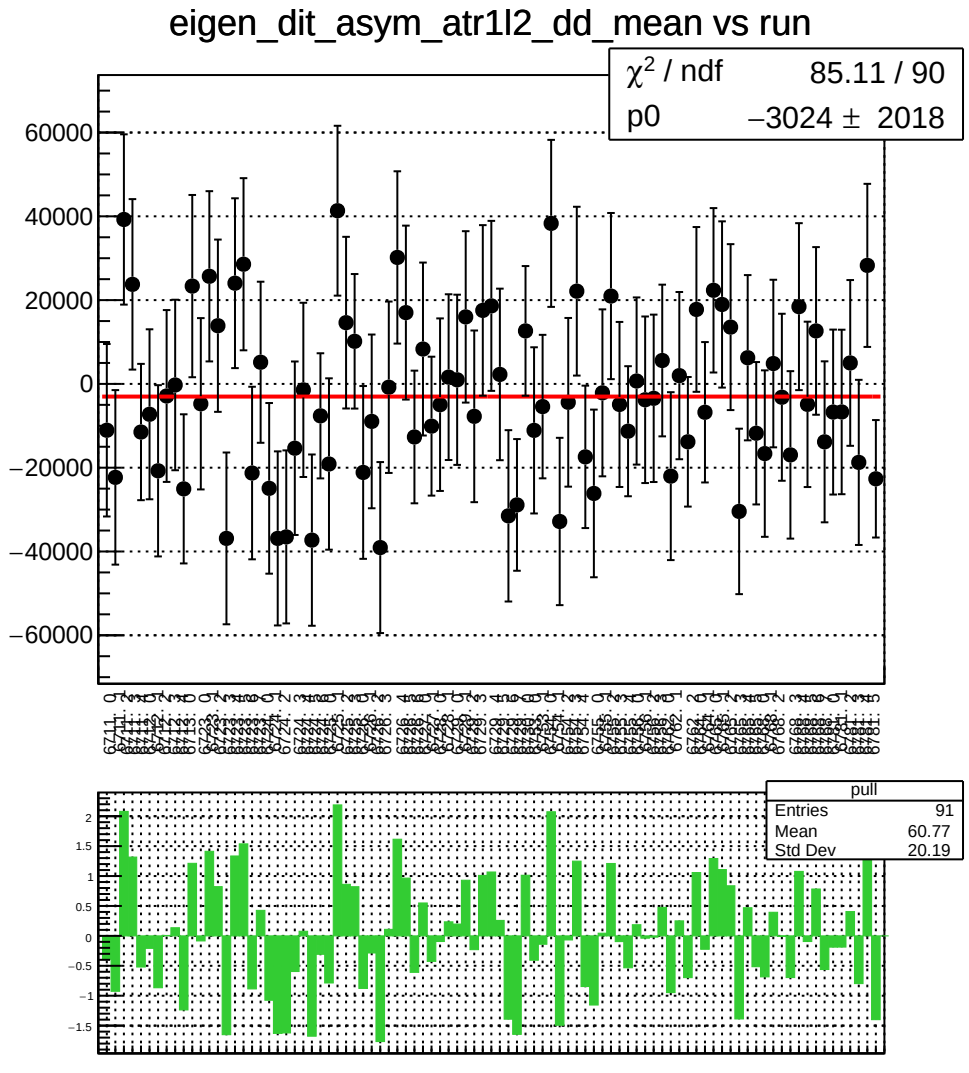

pull1D
Entries 91
Mean 0.01902
Std Dev 0.9669
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

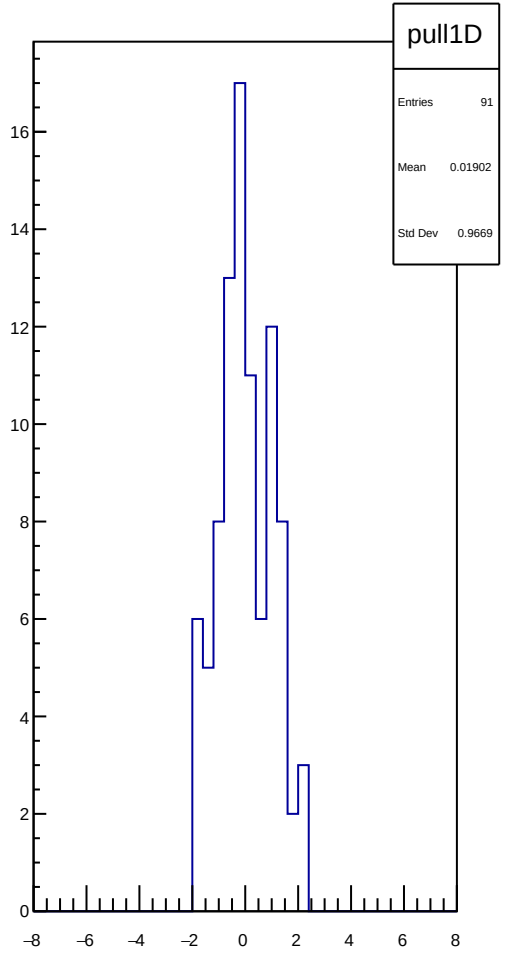

dit_asym_atr1l2_dd_rms vs run
χ^2 / ndf 532.7 / 90
p0 1916 ± 1.427
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820

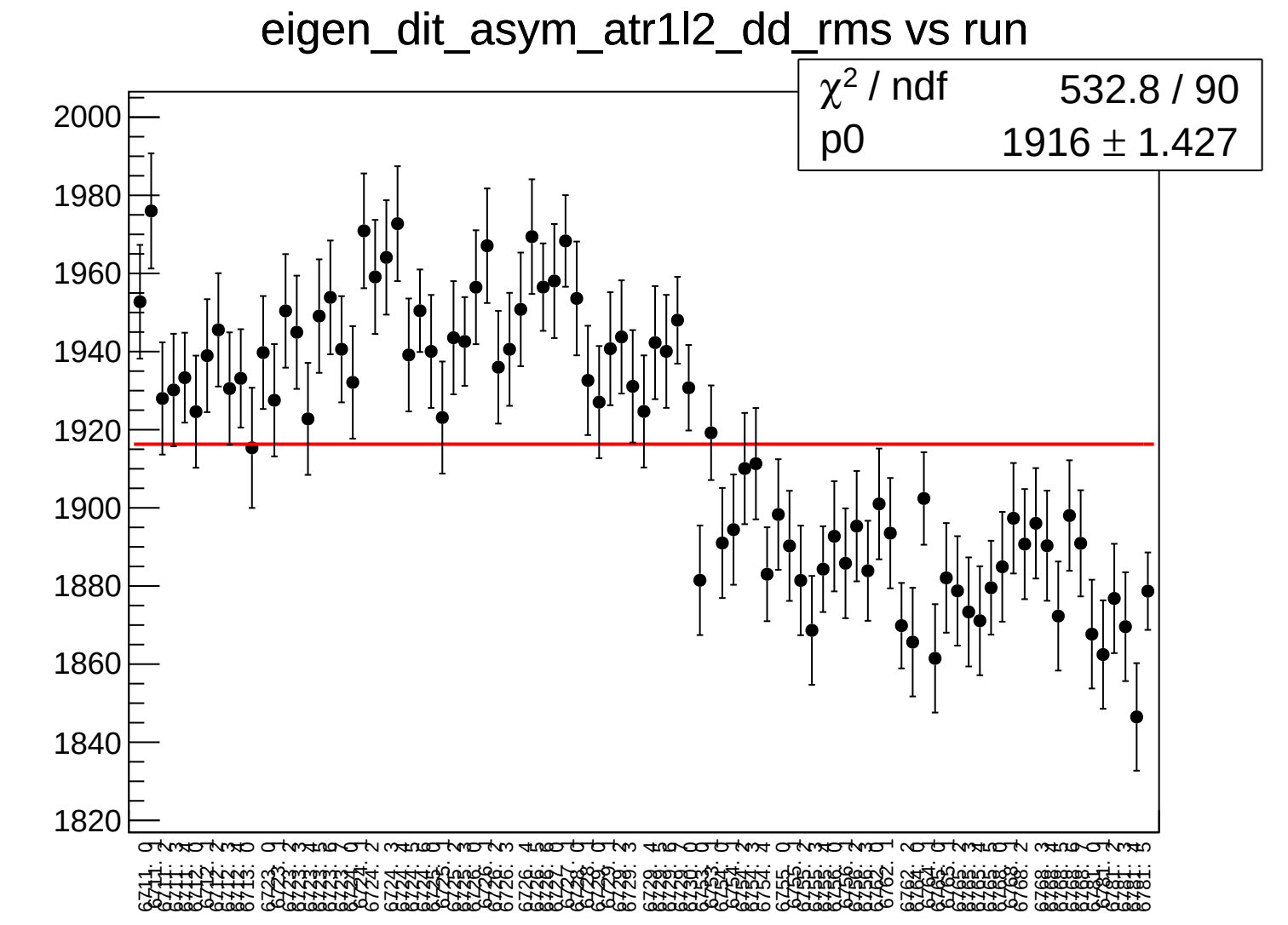

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 81.84 / 90
p0 621.1 ± 4378
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −67.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

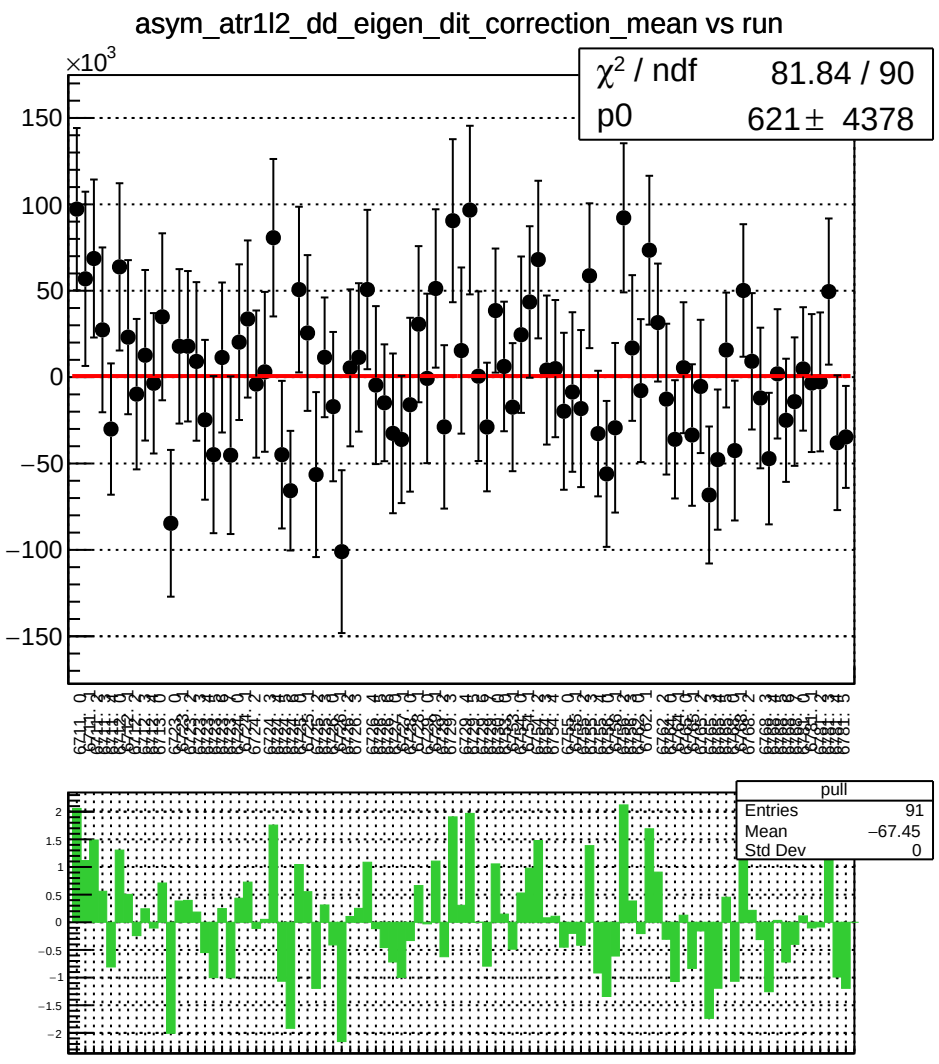

pull1D
Entries 91
Mean 0.03379
Std Dev 0.9477
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

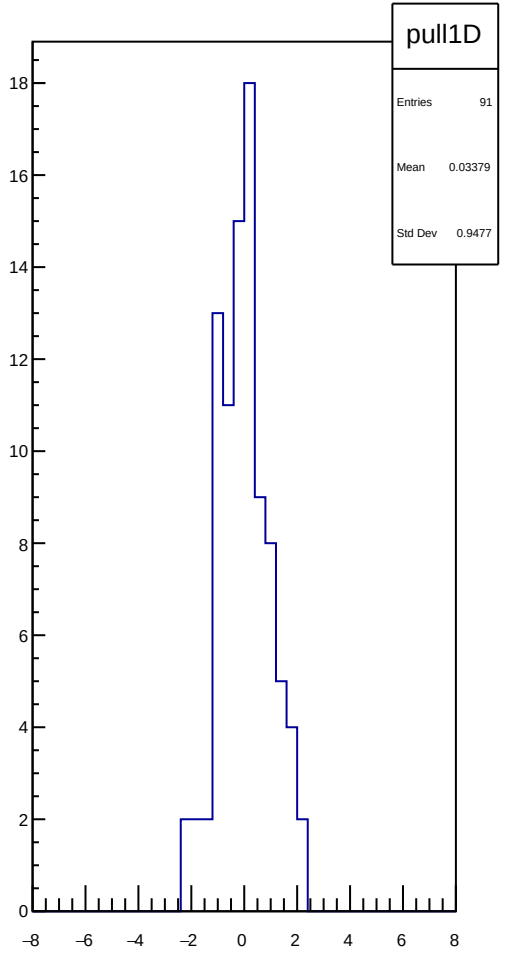

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 1.19e+04 / 90
p0 4145 ± 3.096
4800
4600
4400
4200
4000
3800
3600
3400

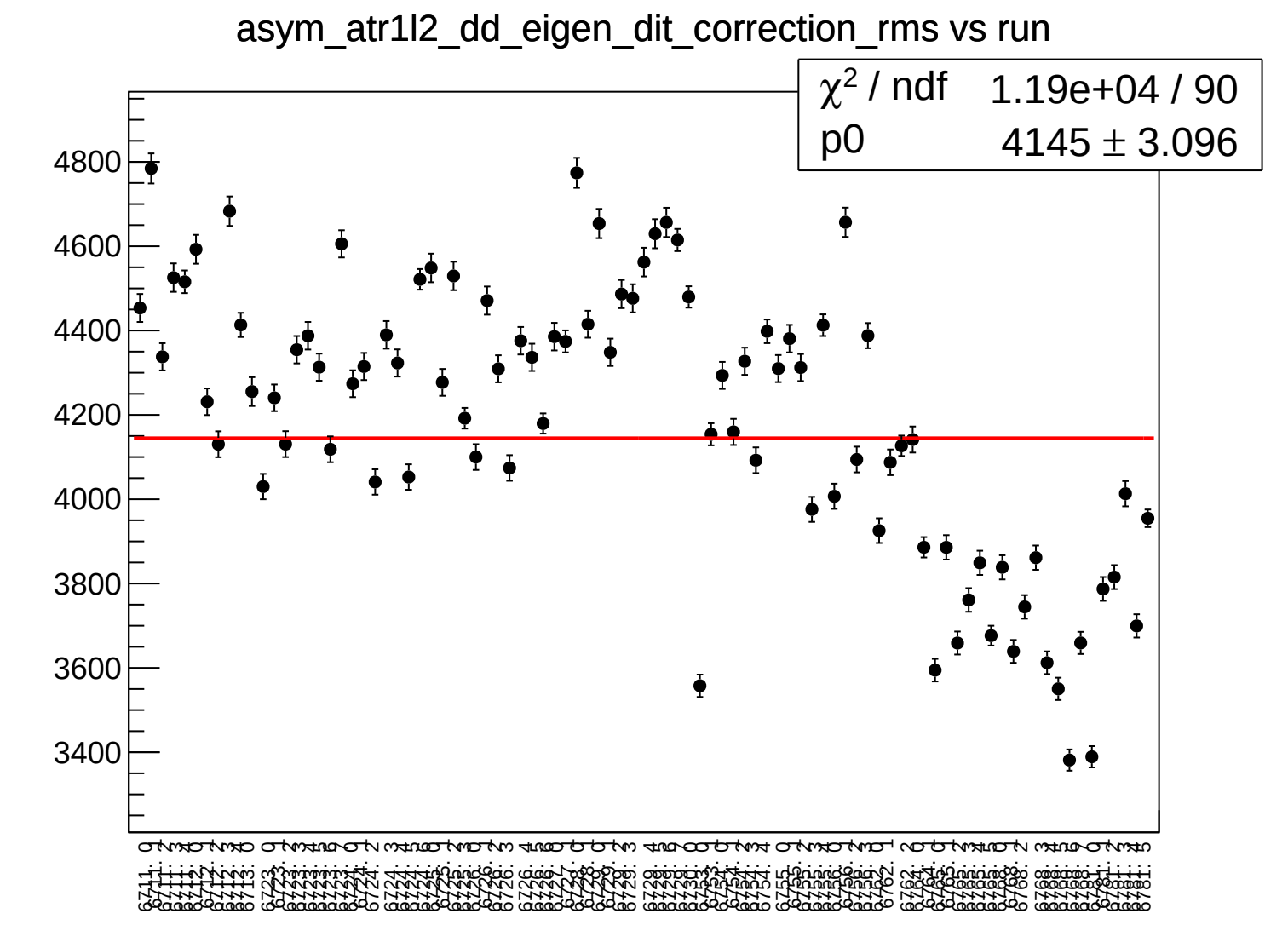

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 85.11 / 90
p0 −3024 ± 2018
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 60.77
Std Dev 20.19
2
1.5
1
0.5
0
−0.5
−1
−1.5

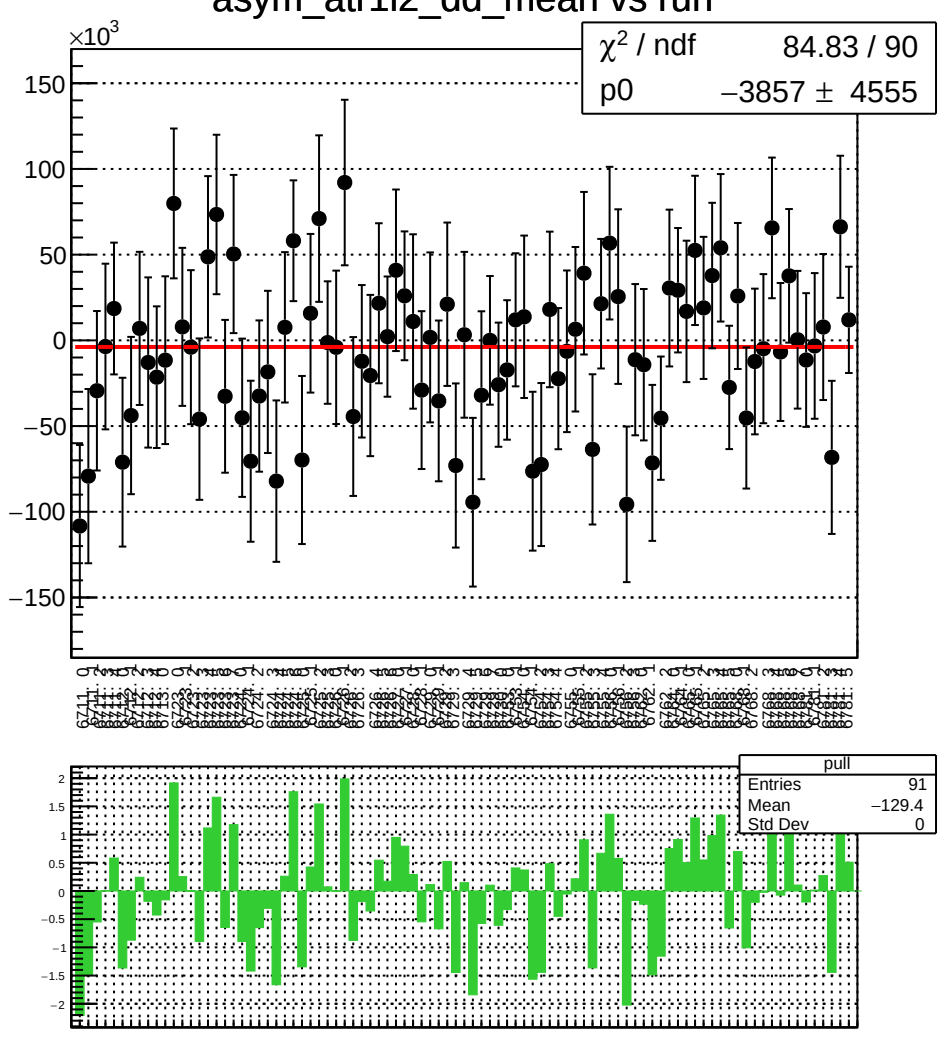

pull1D
Entries 91
Mean 0.01902
Std Dev 0.9669
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

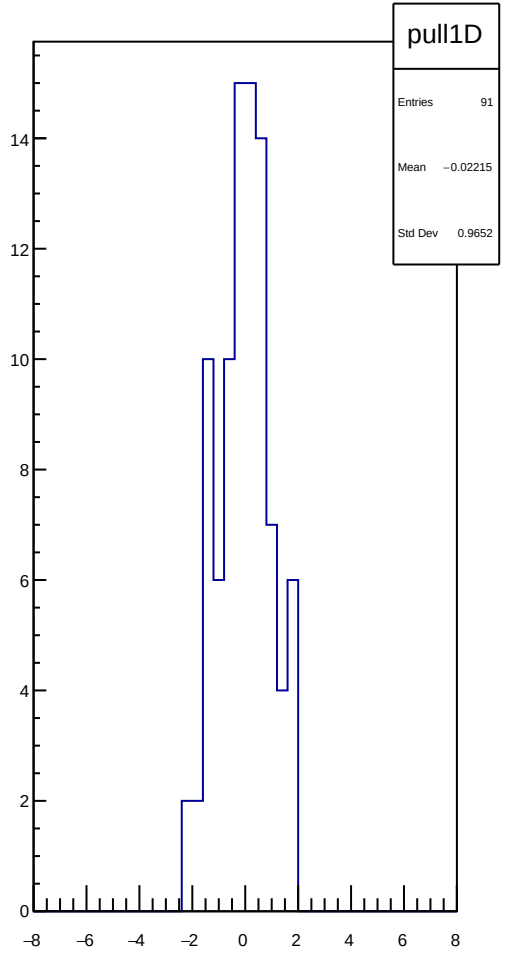

eigen_dit_asym_atr1l2_dd_rms vs run
χ^2 / ndf 532.8 / 90
p0 1916 ± 1.427
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820

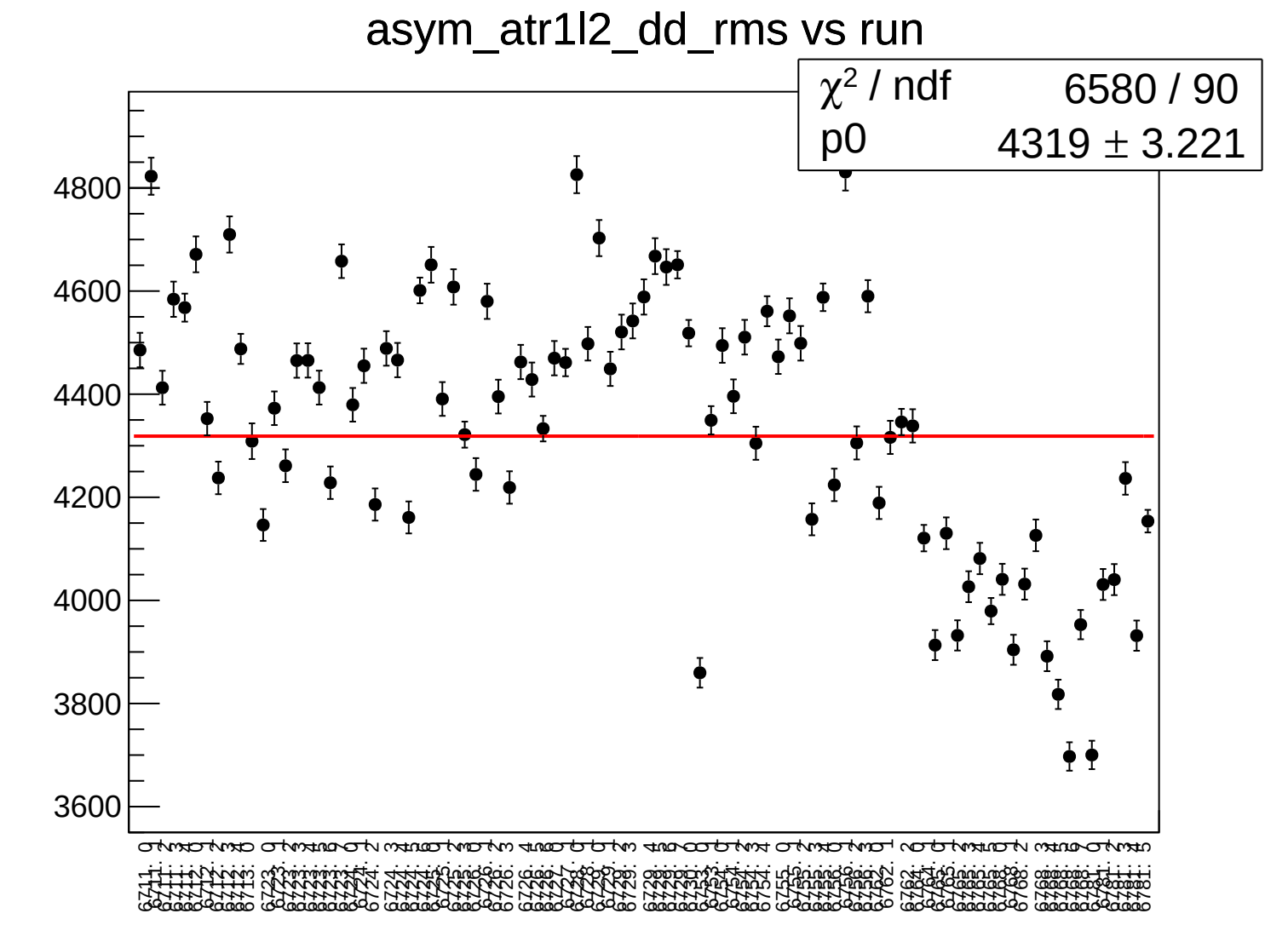

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.84 / 90
p0 621 ± 4378
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −67.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

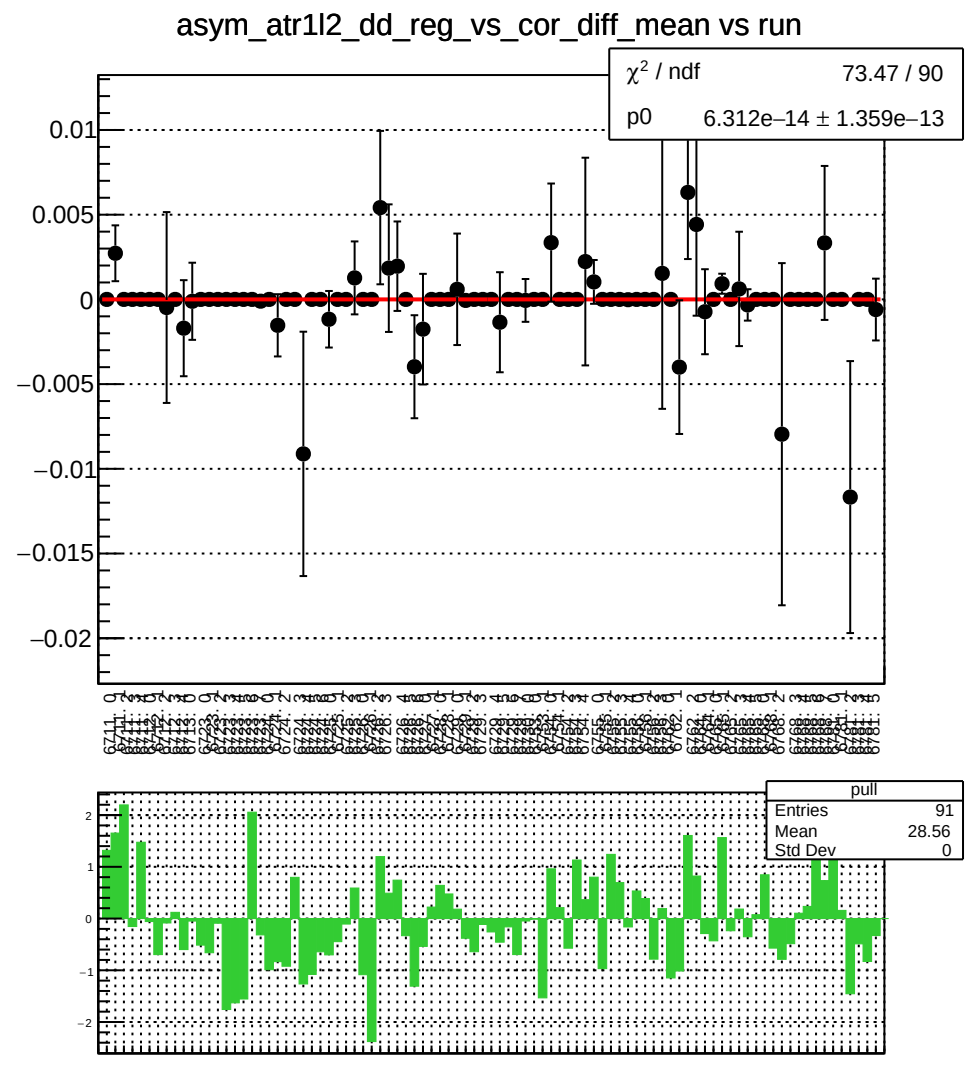

pull1D
Entries 91
Mean 0.03379
Std Dev 0.9477
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

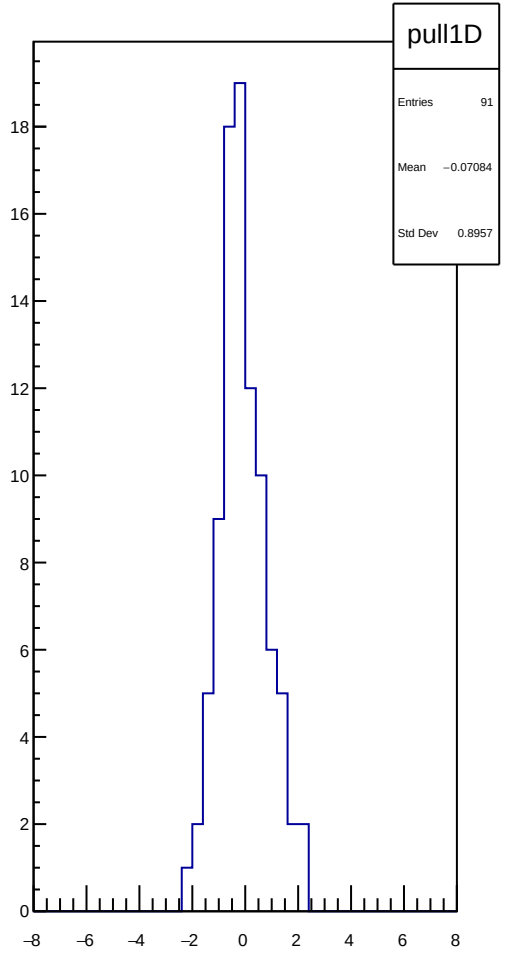

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.19e+04 / 90
p0 4145 ± 3.096
4800
4600
4400
4200
4000
3800
3600
3400

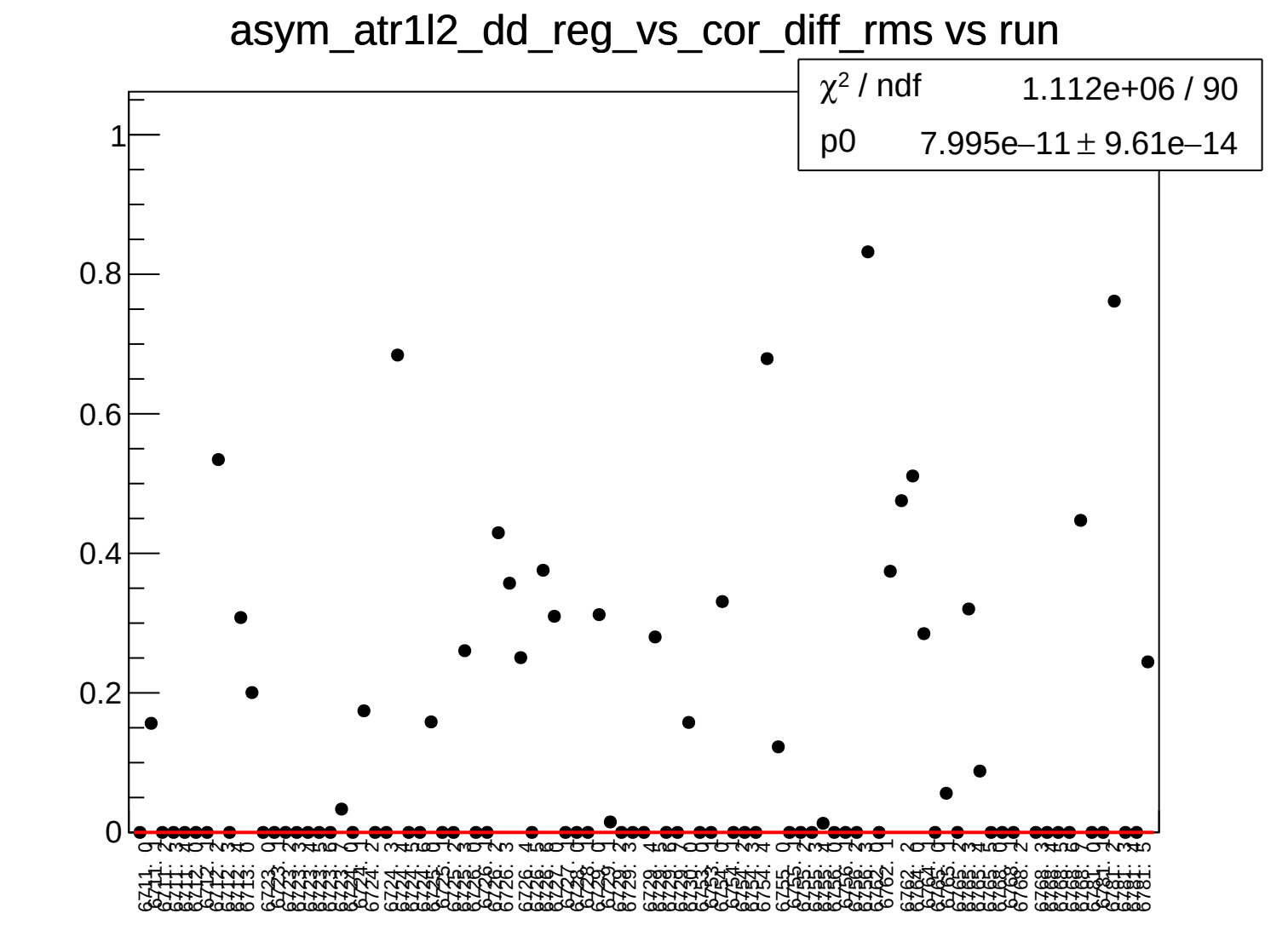

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 84.83 / 90
p0 −3857 ± 4555
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −129.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

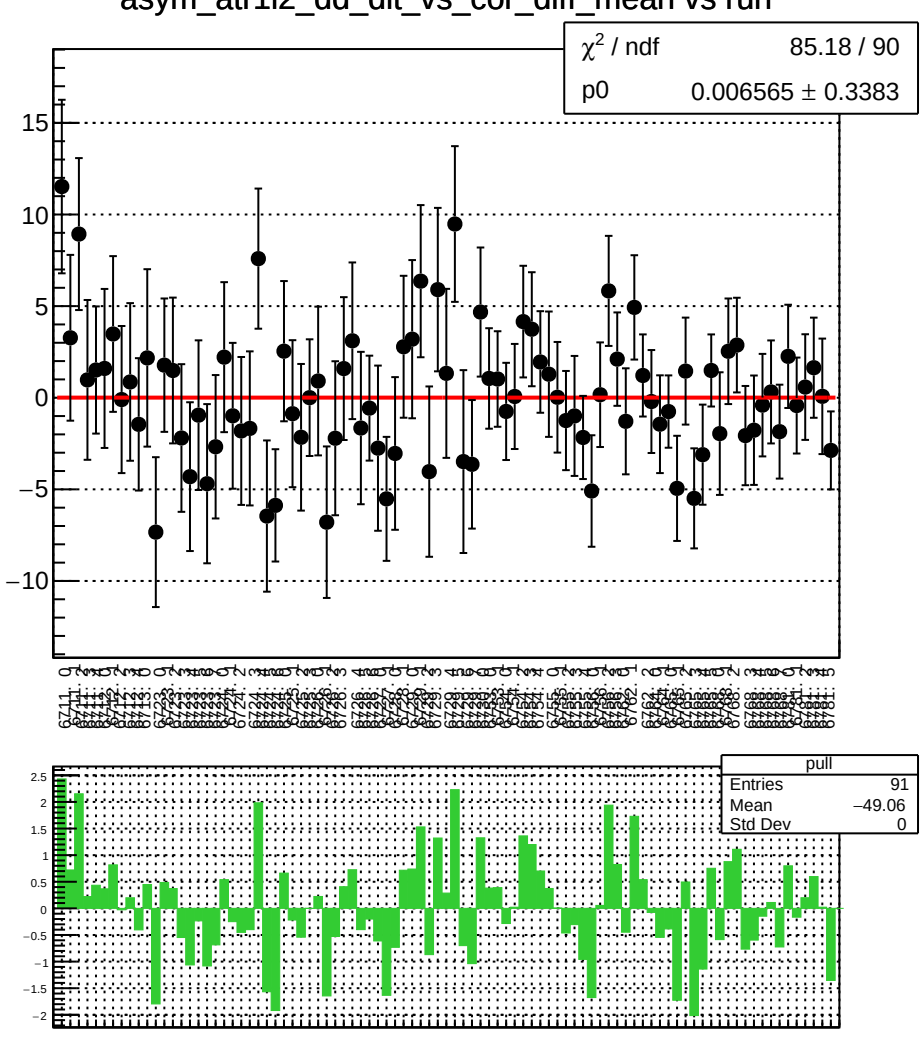

pull1D
Entries 91
Mean −0.02215
Std Dev 0.9652
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

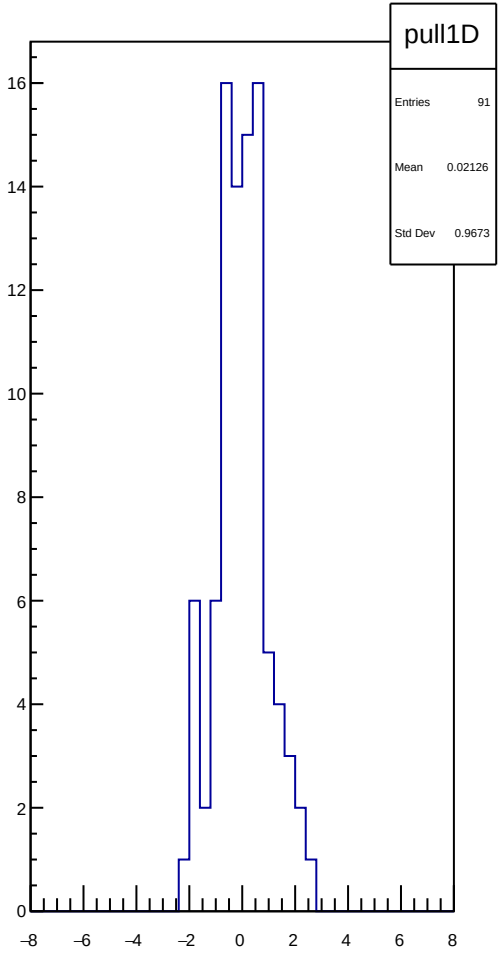

asym_atr1l2_dd_rms vs run
χ² / ndf 6580 / 90
p0 4319 ± 3.221
4800
4600
4400
4200
4000
3800
3600

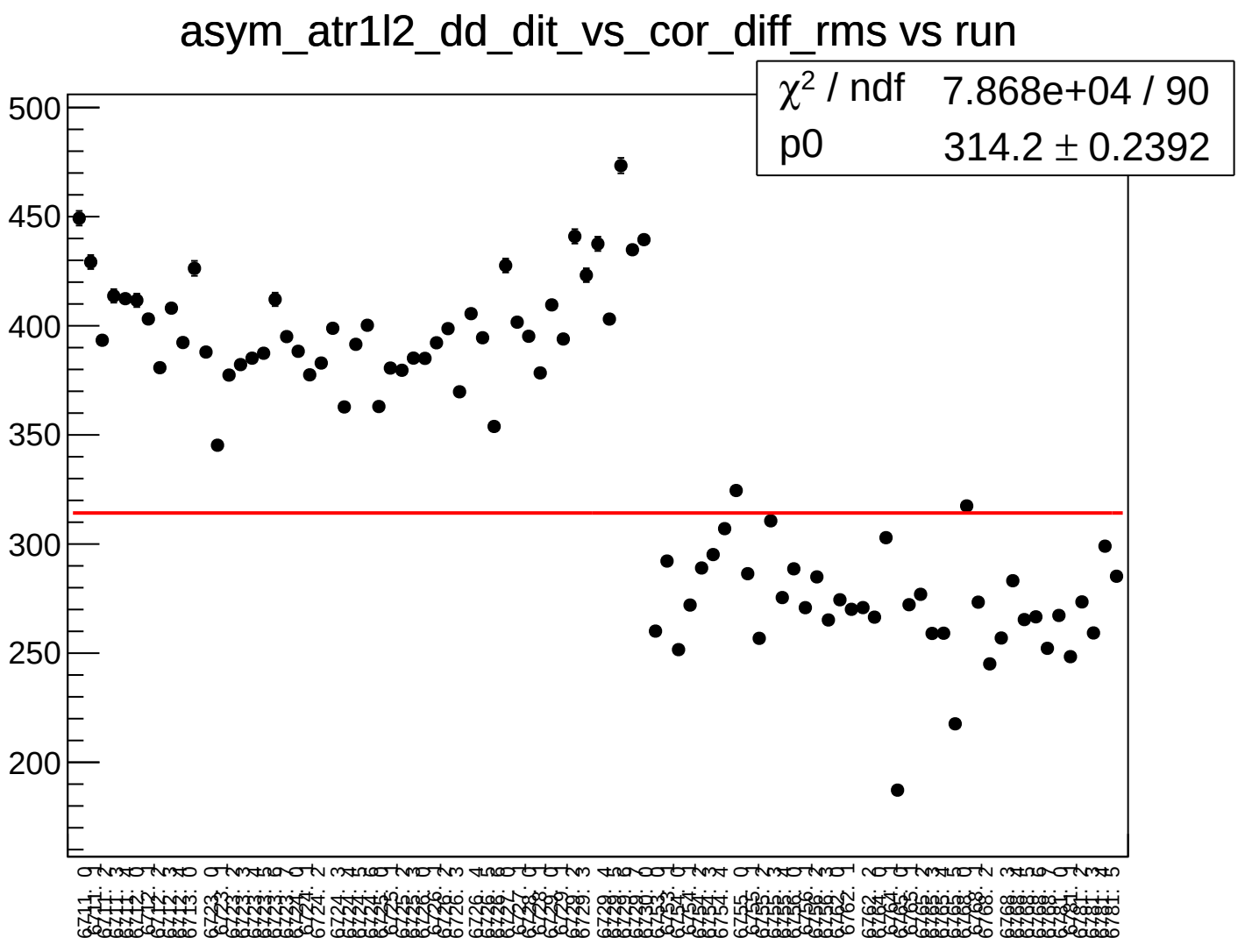

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 73.47 / 90
p0 6.312e−14 ± 1.359e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 91
Mean 28.56
Std Dev 0
2
1
0
−1
−2

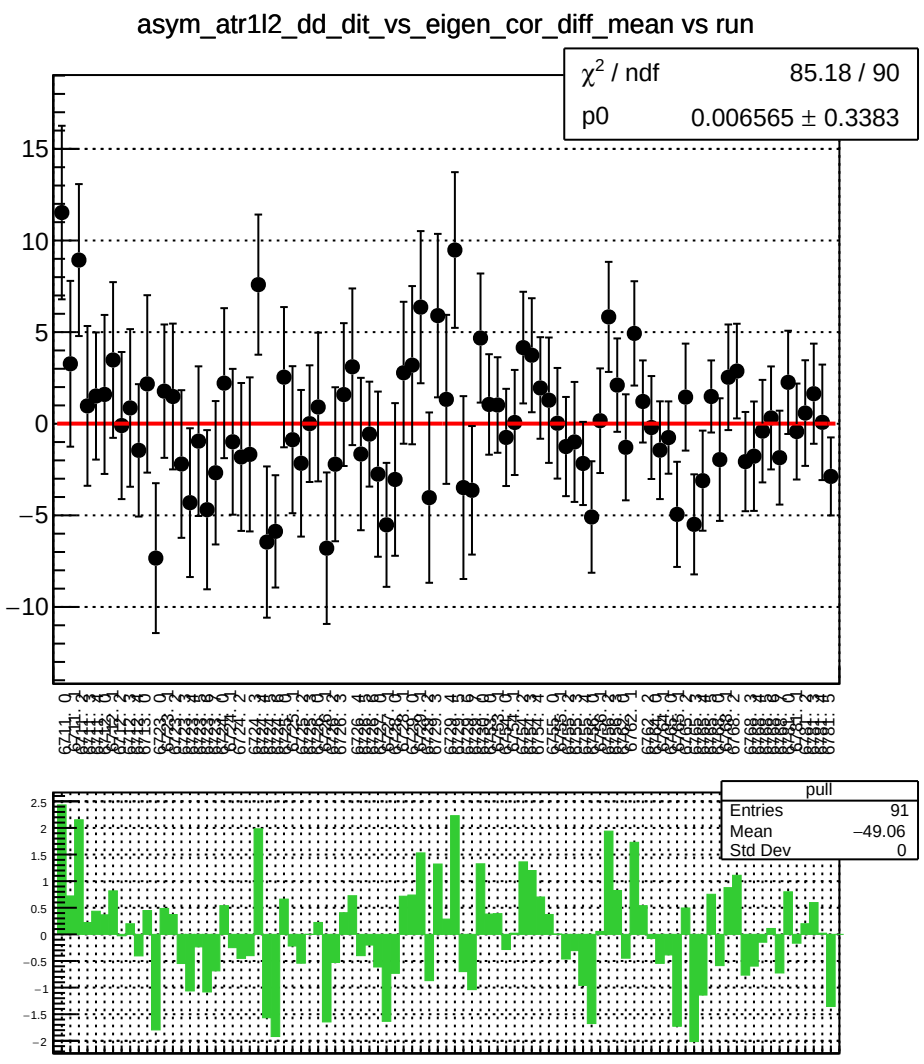

pull1D
Entries 91
Mean −0.07084
Std Dev 0.8957
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

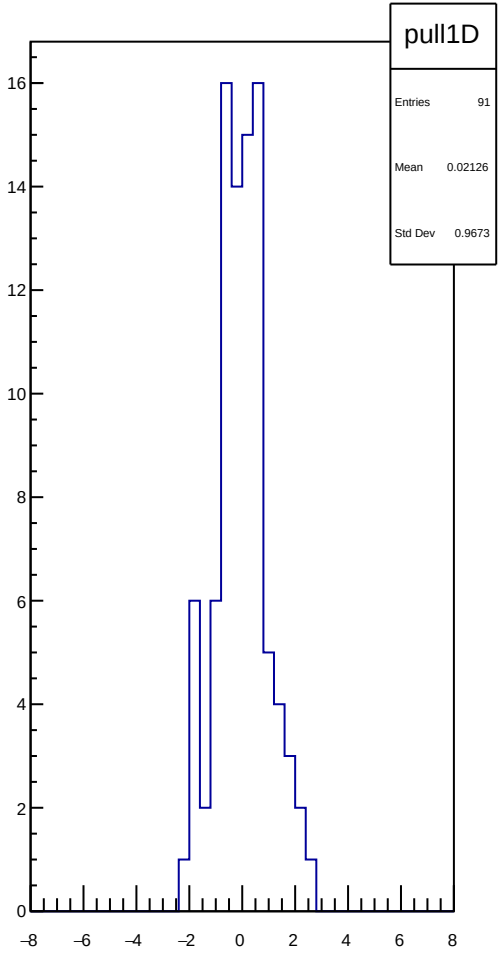

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.112e+06 / 90
p0 7.995e−11 ± 9.61e−14
1
0.8
0.6
0.4
0.2
0

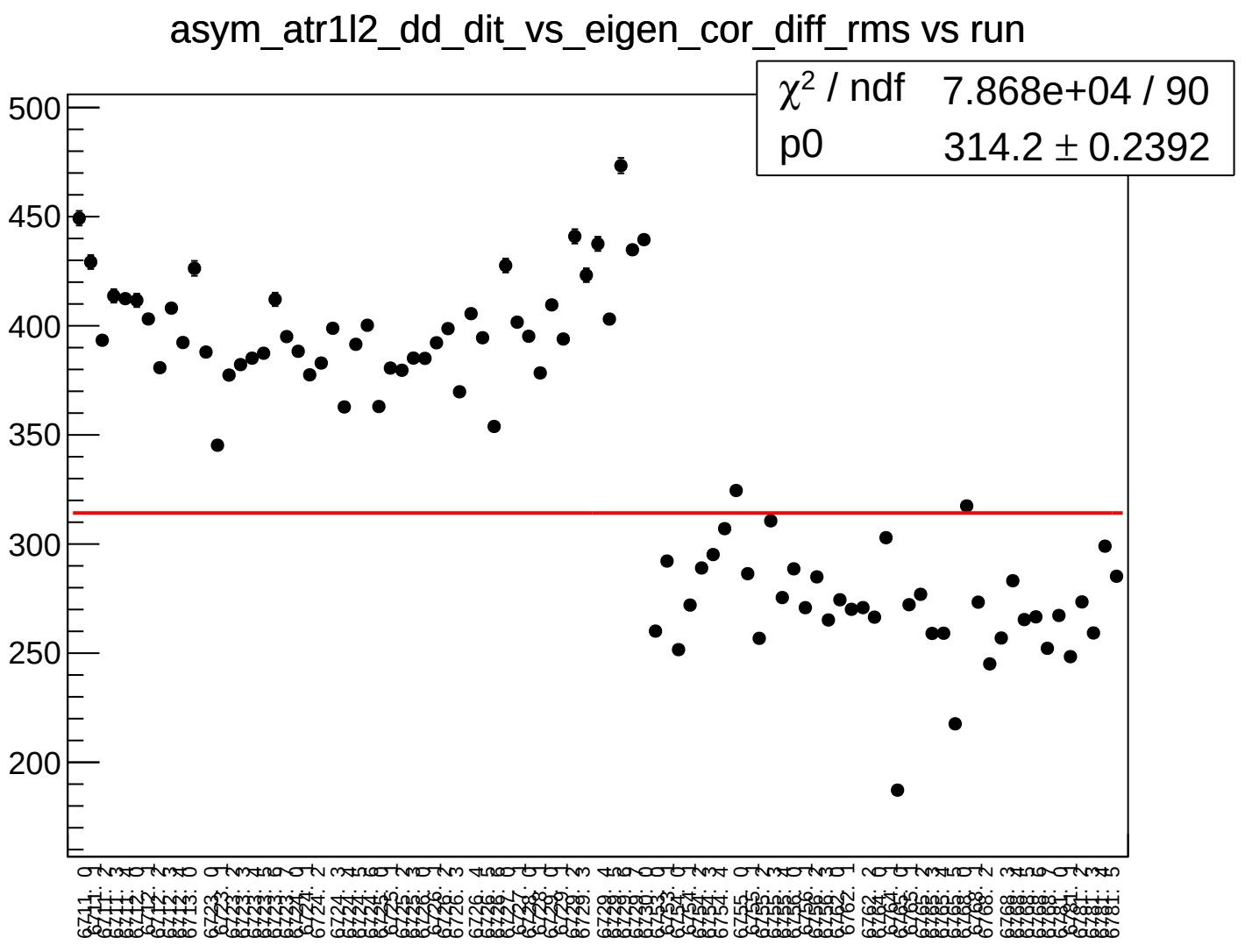

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.18 / 90
p0 0.006565 ± 0.3383
pull
Entries 91
Mean −49.06
Std Dev 0

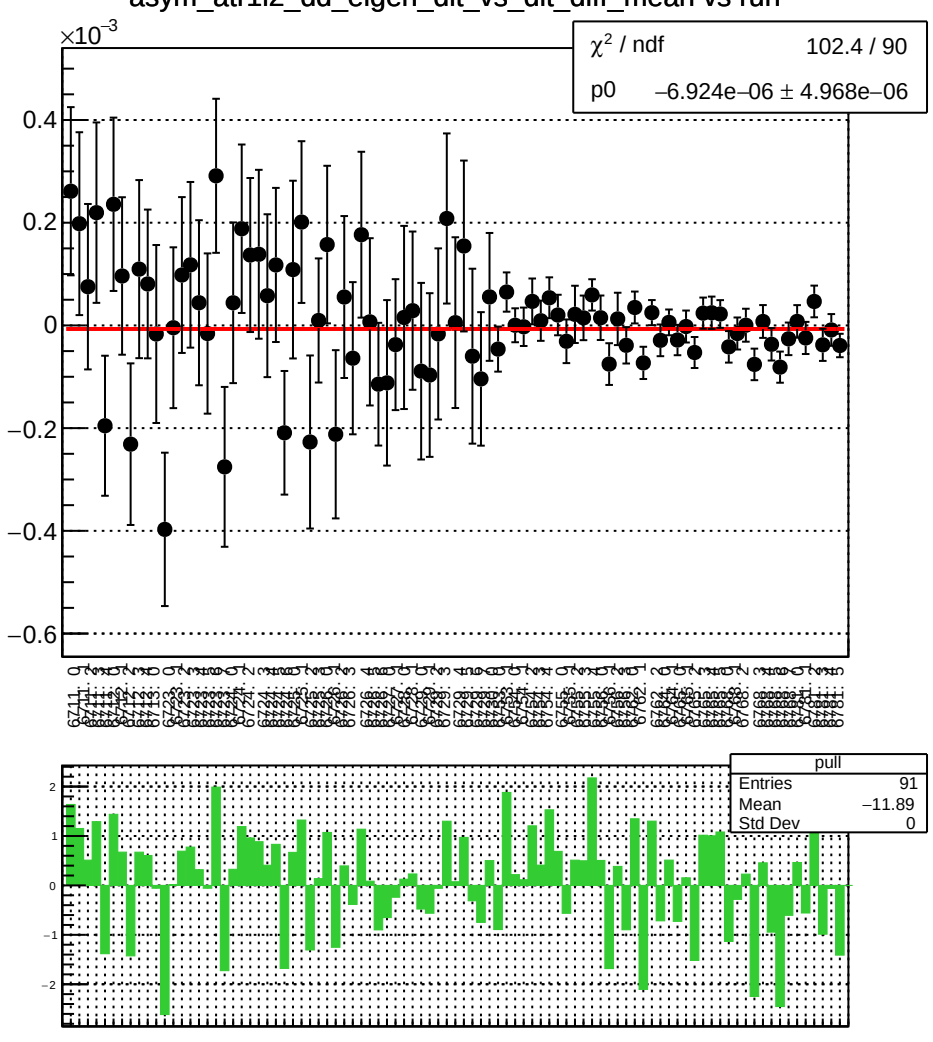

pull1D
Entries 91
Mean 0.02126
Std Dev 0.9673

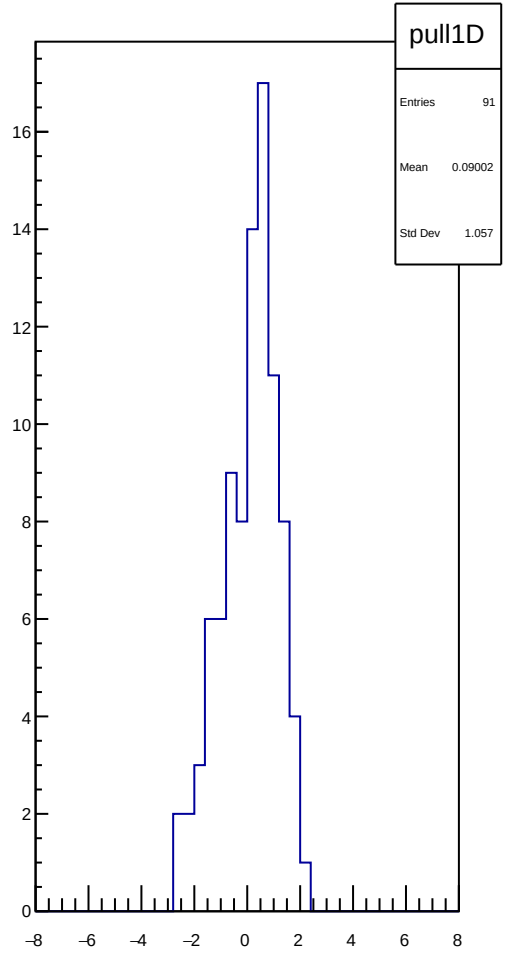

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.868e+04 / 90
p0 314.2 ± 0.2392
500
450
400
350
300
250
200

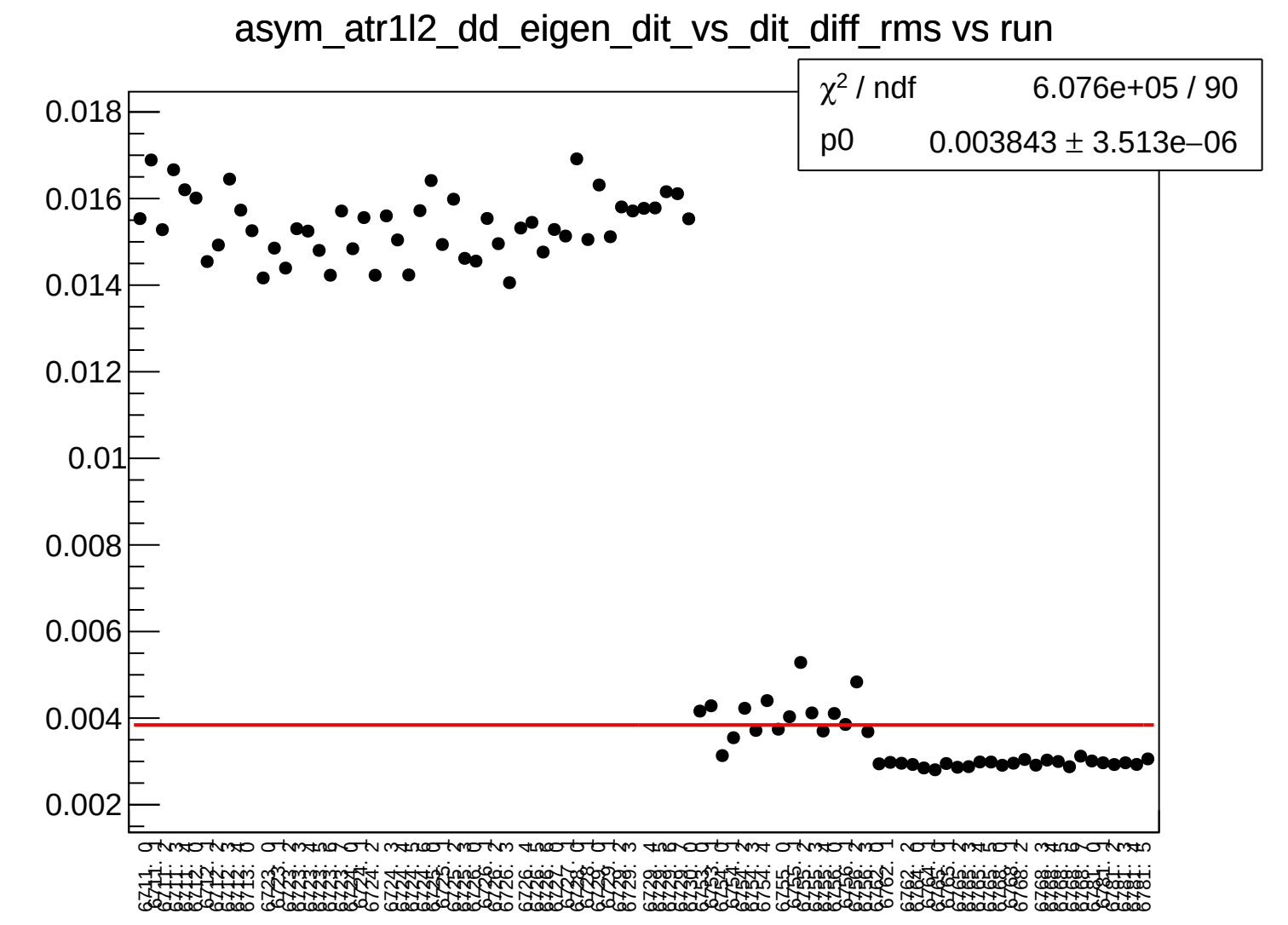

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.18 / 90
p0 0.006565 ± 0.3383
pull
Entries 91
Mean −49.06
Std Dev 0

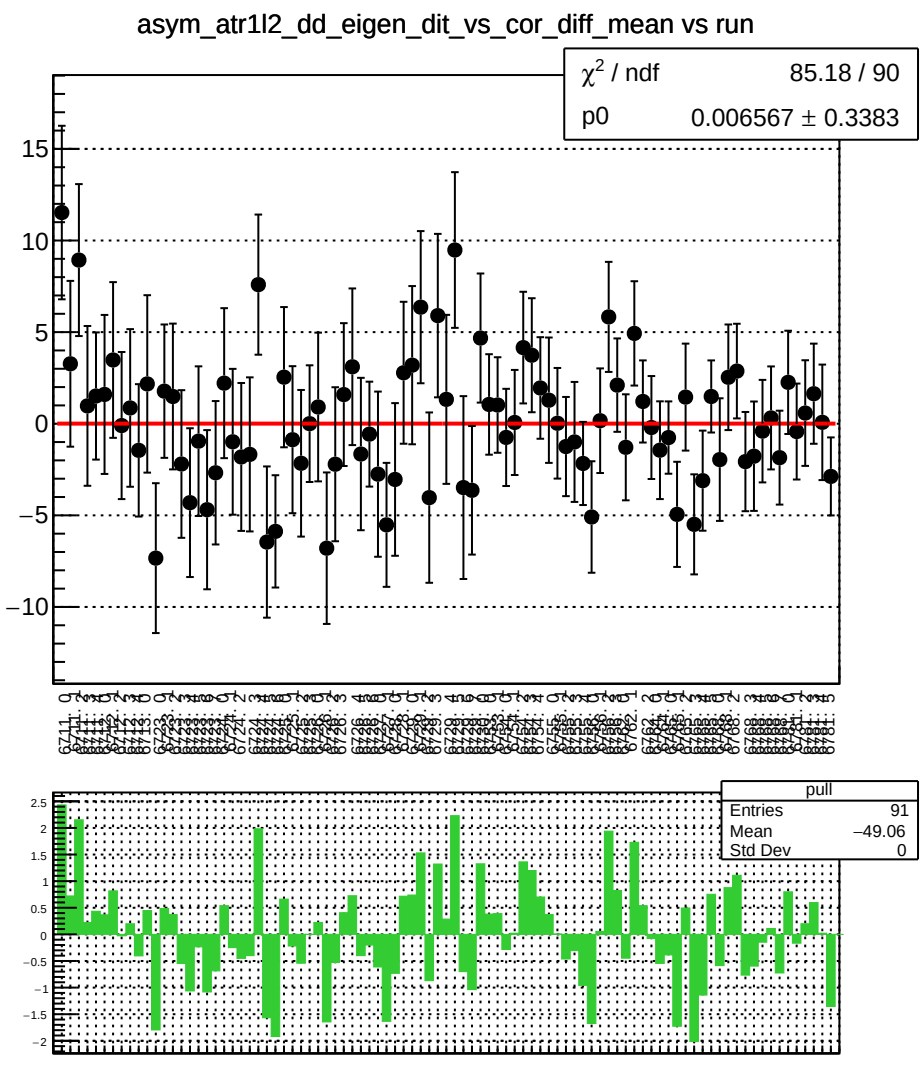

pull1D
Entries 91
Mean 0.02126
Std Dev 0.9673

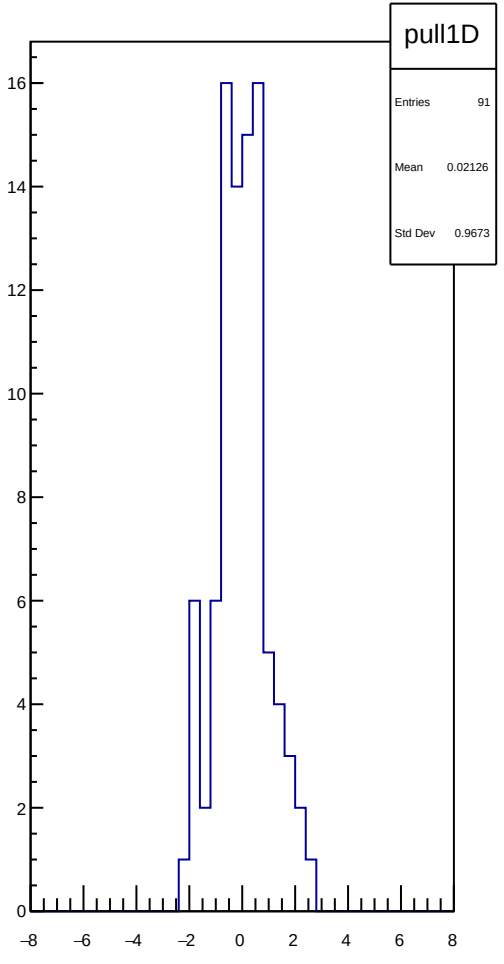

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.868e+04 / 90
p0 314.2 ± 0.2392
500
450
400
350
300
250
200

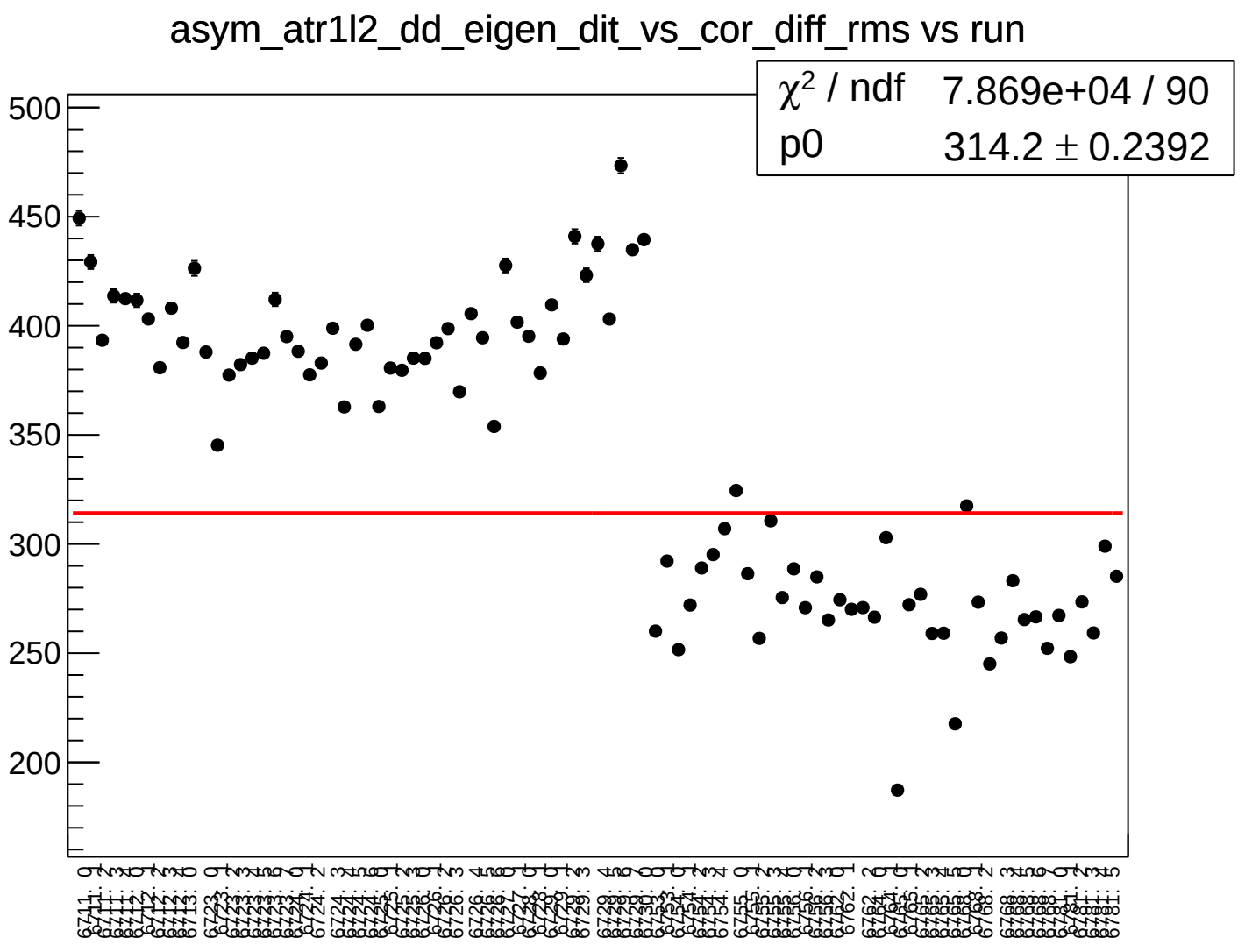

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.4 / 90
p0 −6.924e−06 ± 4.968e−06
pull
Entries 91
Mean −11.89
Std Dev 0

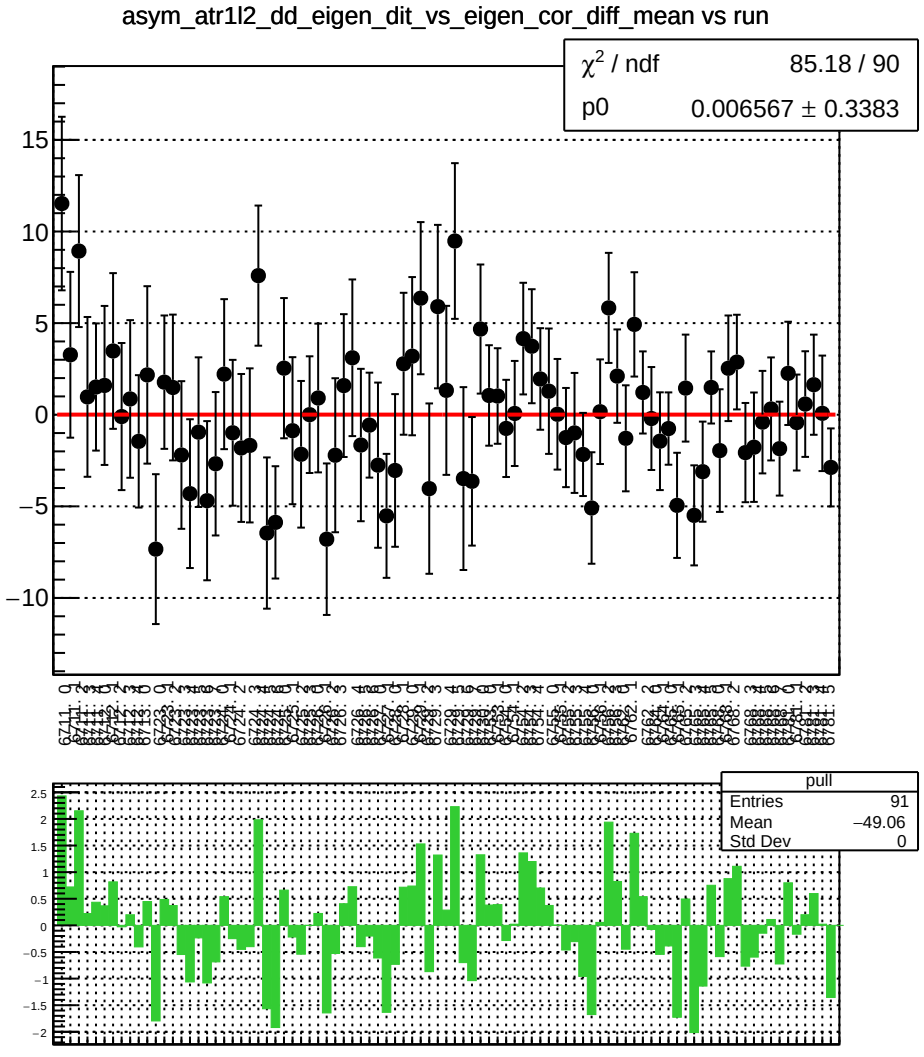

pull1D
Entries 91
Mean 0.09002
Std Dev 1.057

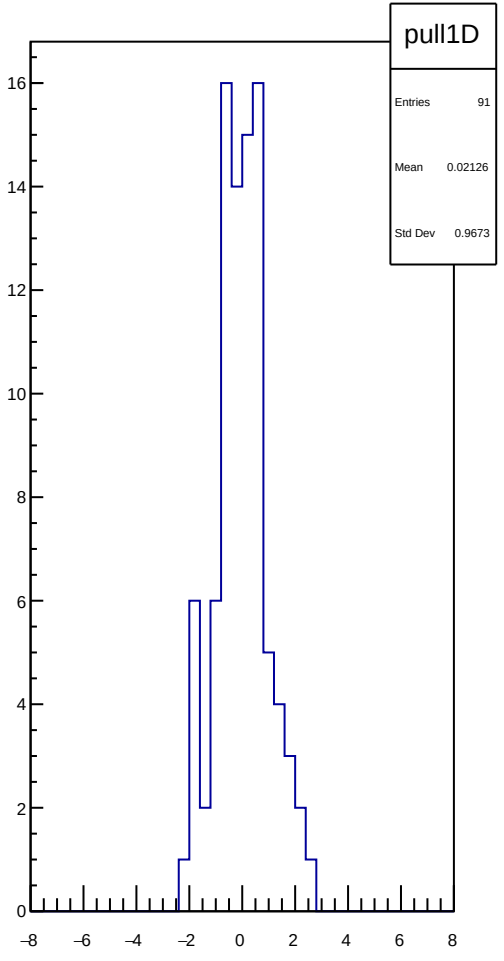

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.076e+05 / 90
p0 0.003843 ± 3.513e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

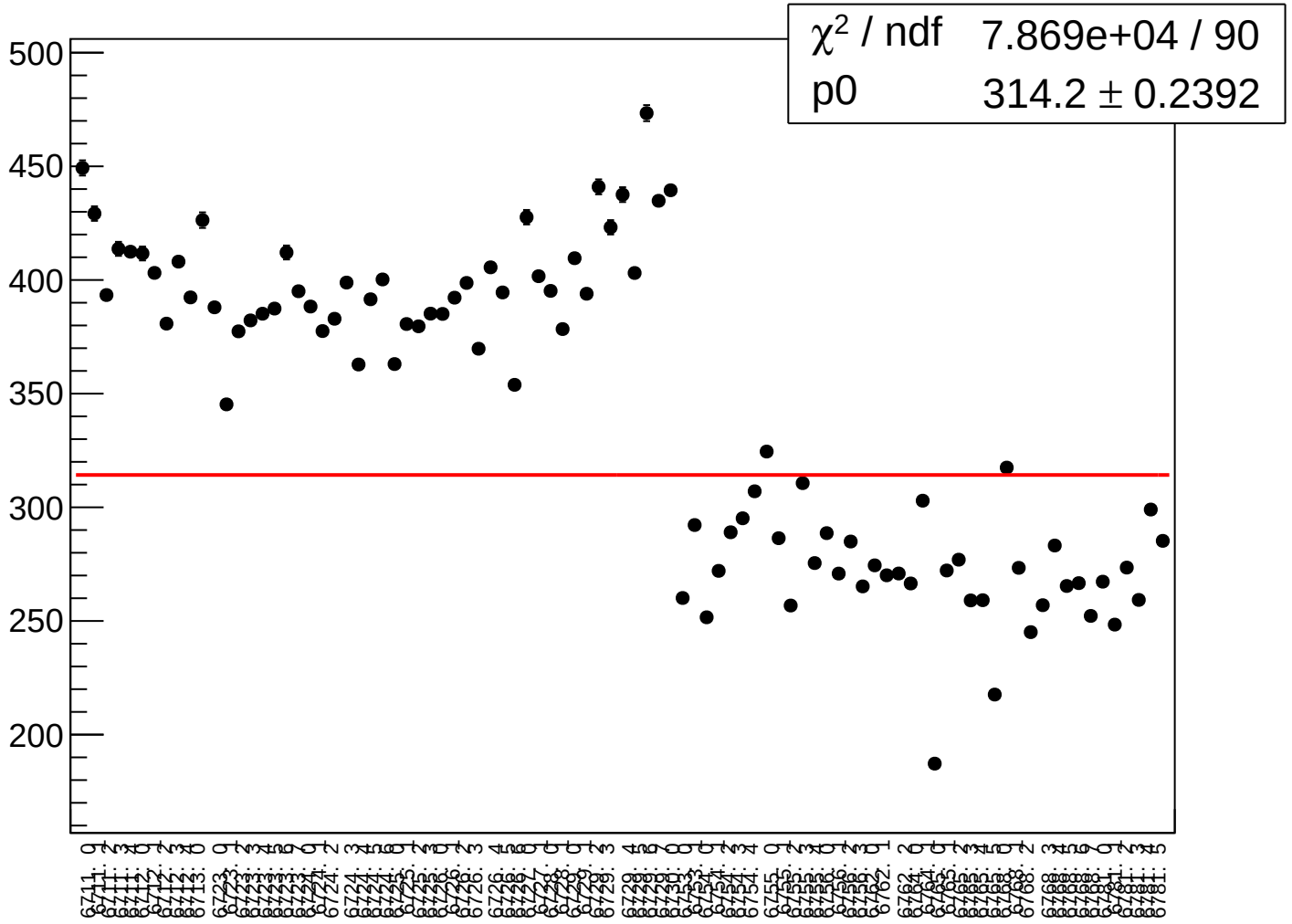

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.18 / 90
p0 0.006567 ± 0.3383
pull
Entries 91
Mean −49.06
Std Dev 0

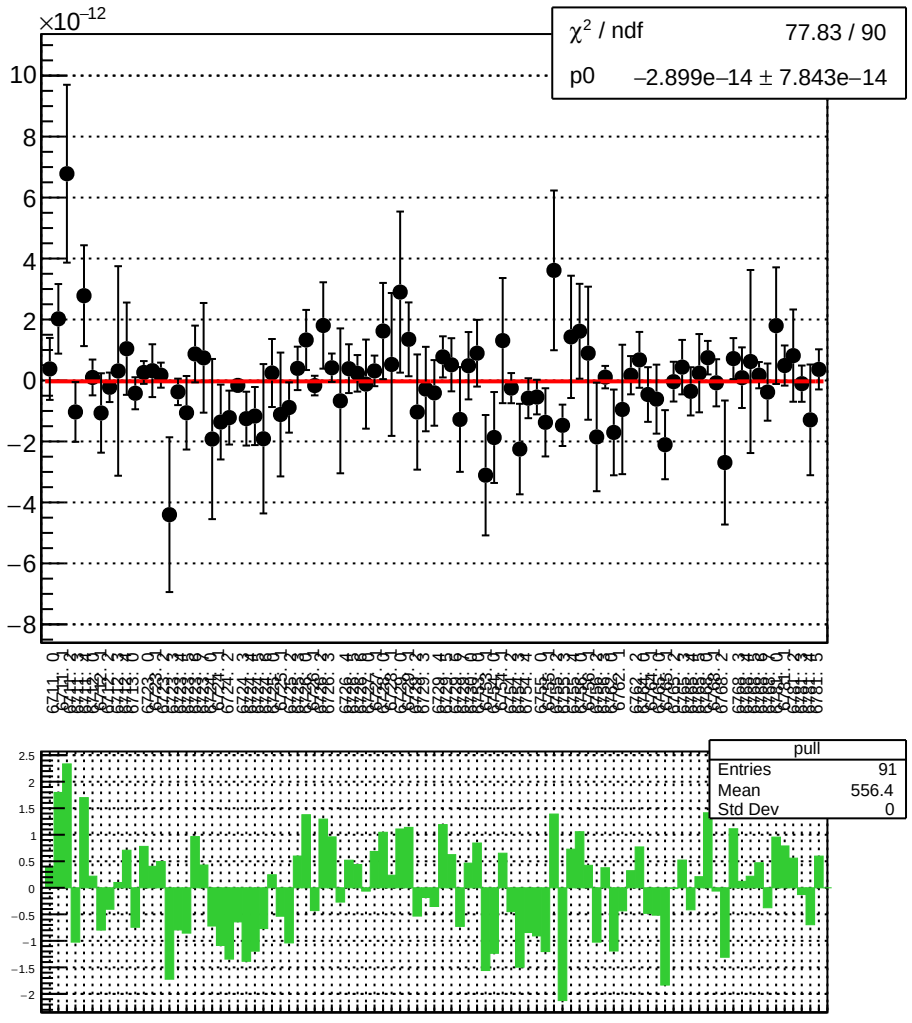

pull1D
Entries 91
Mean 0.02126
Std Dev 0.9673

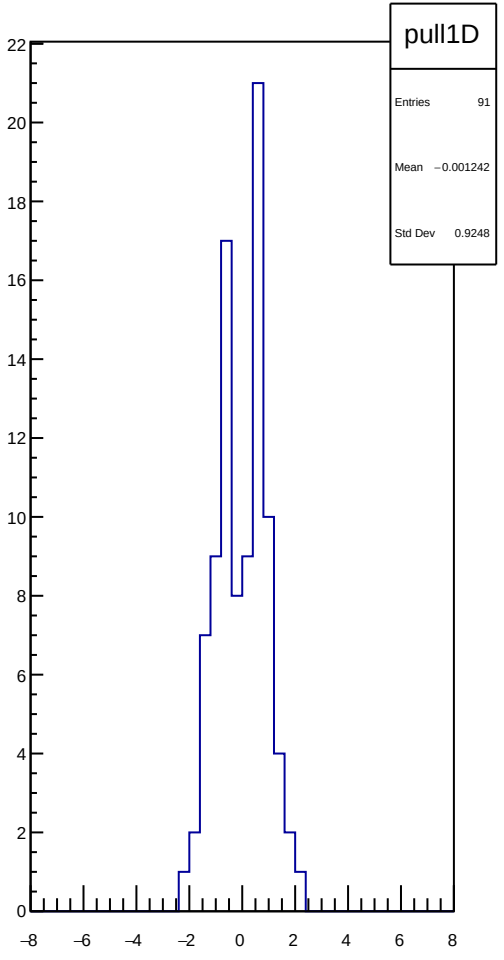

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.869e+04 / 90
p0 314.2 ± 0.2392
500
450
400
350
300
250
200

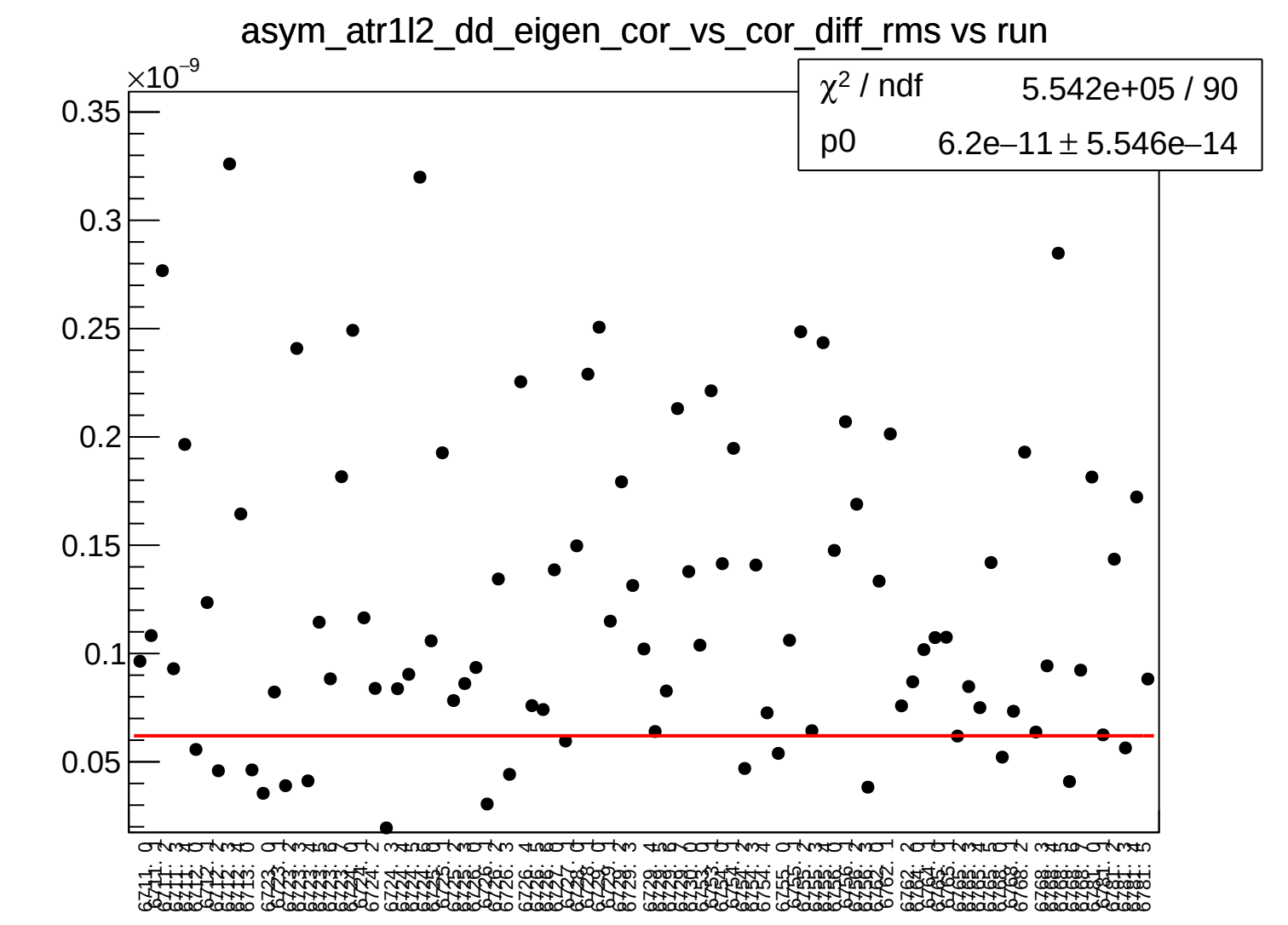

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.18 / 90
p0 0.006567 ± 0.3383
pull
Entries 91
Mean −49.06
Std Dev 0

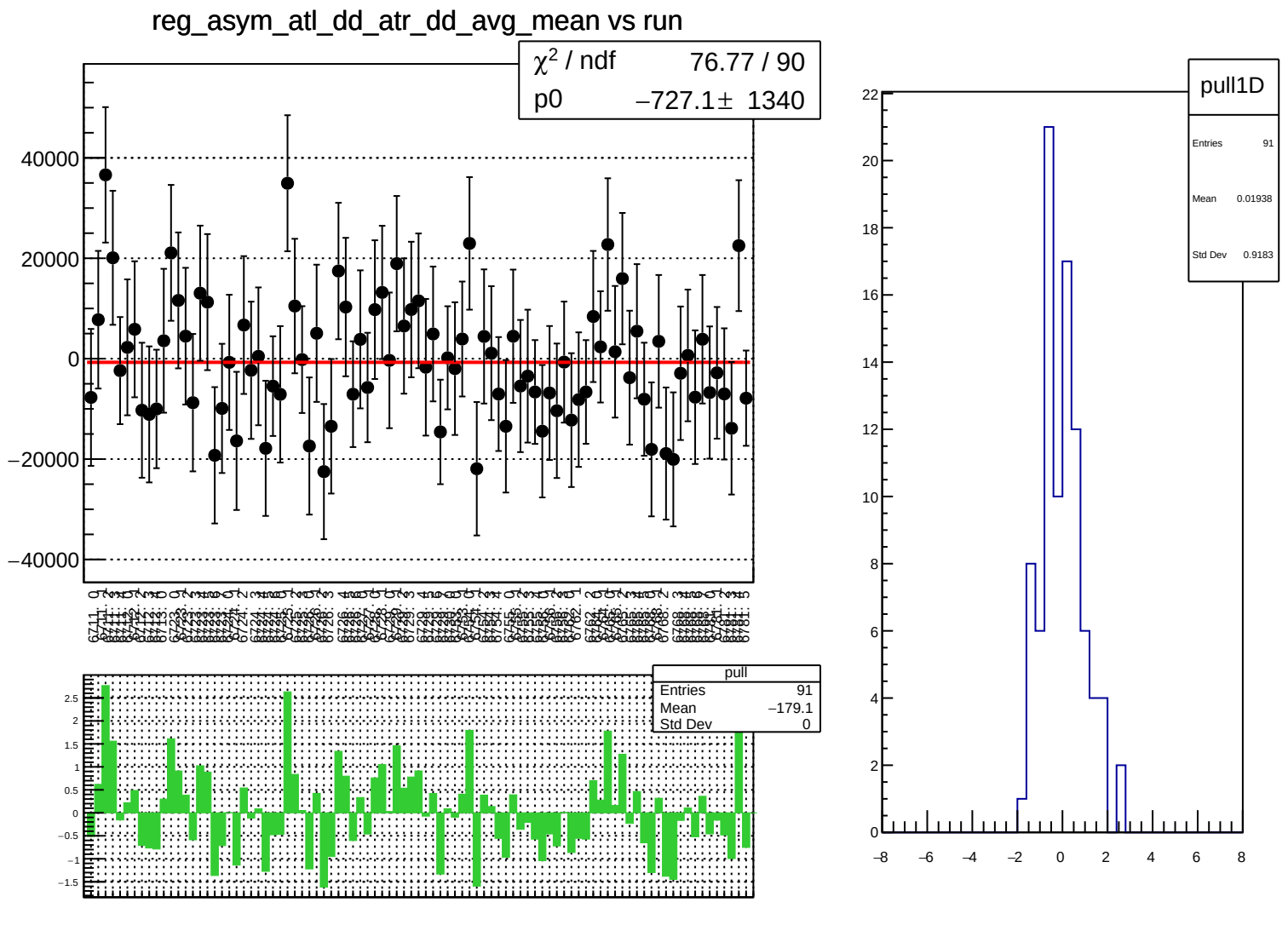

pull1D
Entries 91
Mean 0.02126
Std Dev 0.9673

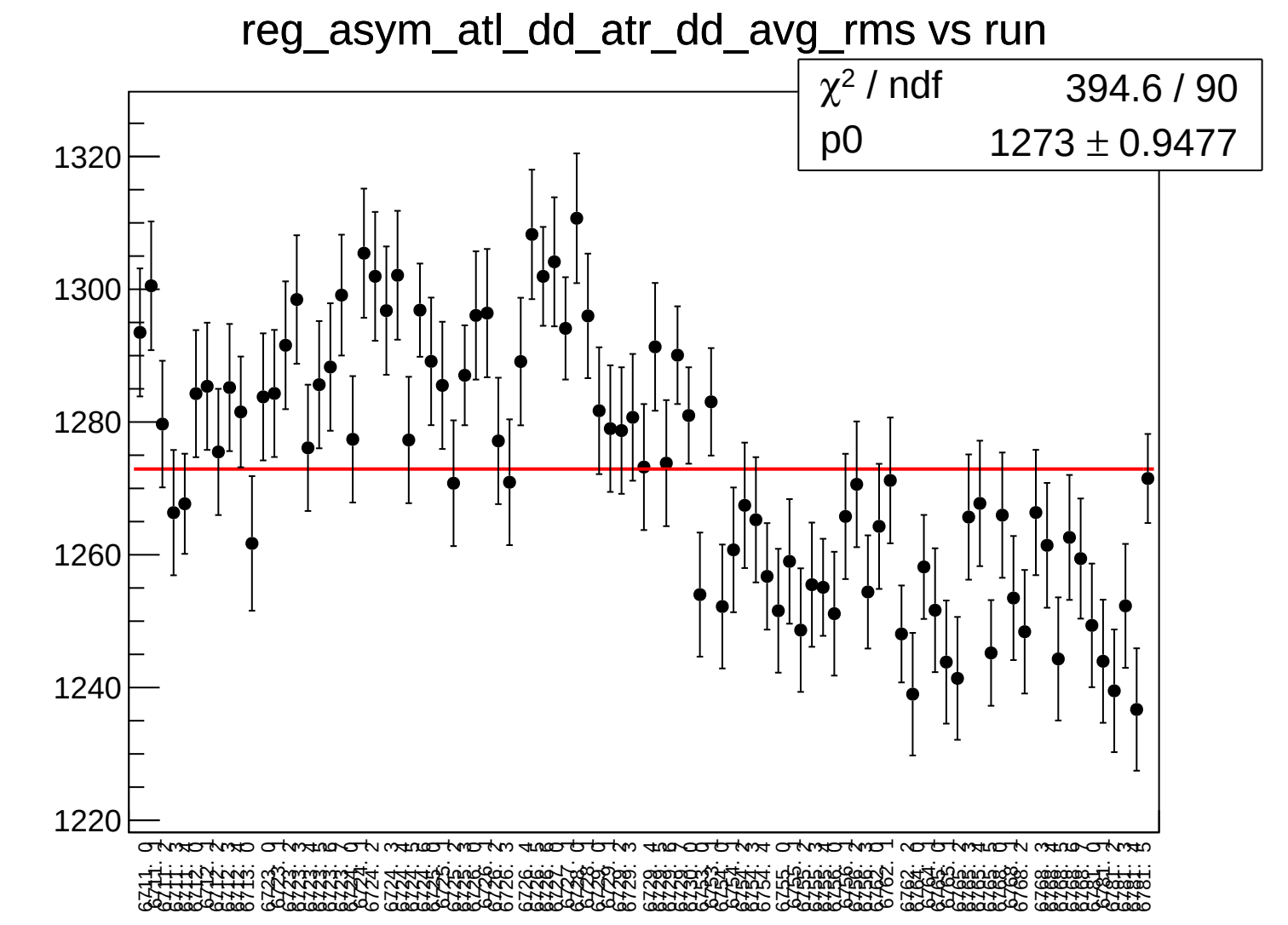

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.869e+04 / 90
p0 314.2 ± 0.2392
500
450
400
350
300
250
200

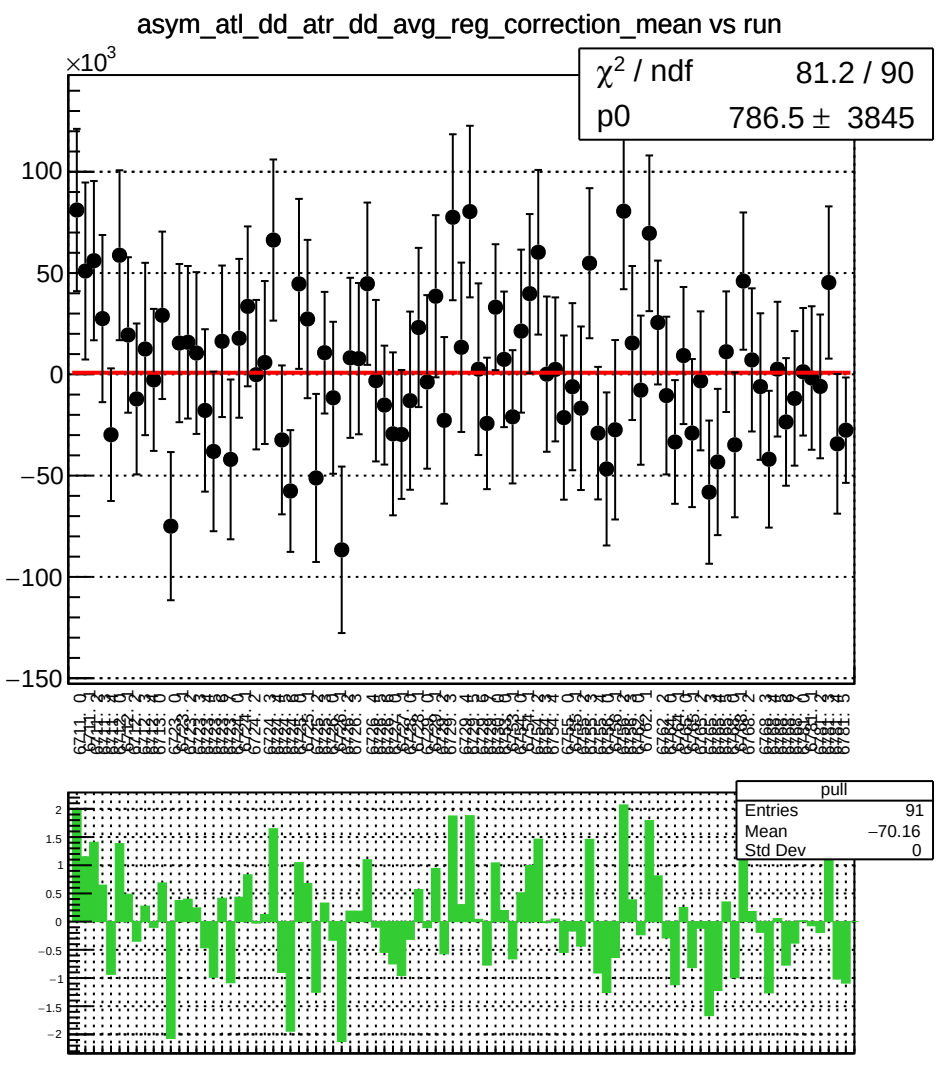

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.83 / 90
p0 −2.899e−14 ± 7.843e−14
pull
Entries 91
Mean 556.4
Std Dev 0

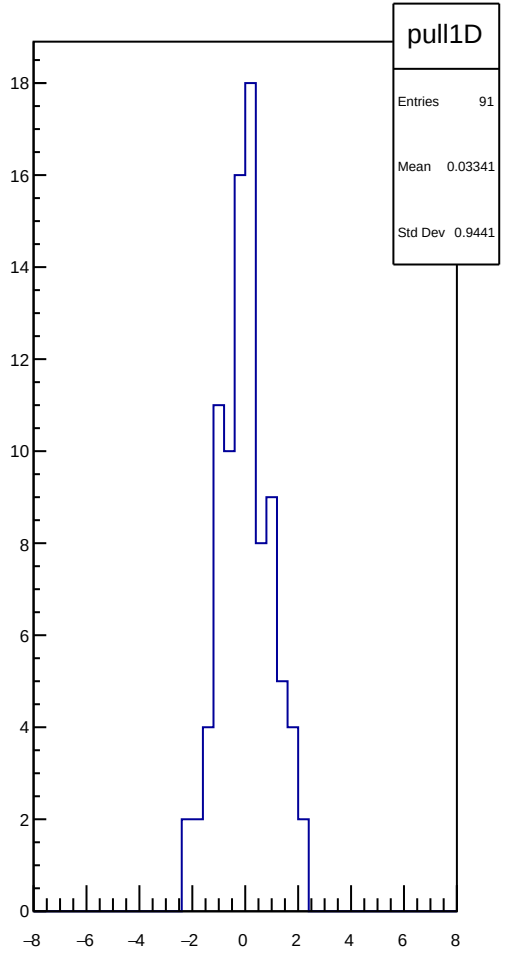

pull1D
Entries 91
Mean −0.001242
Std Dev 0.9248

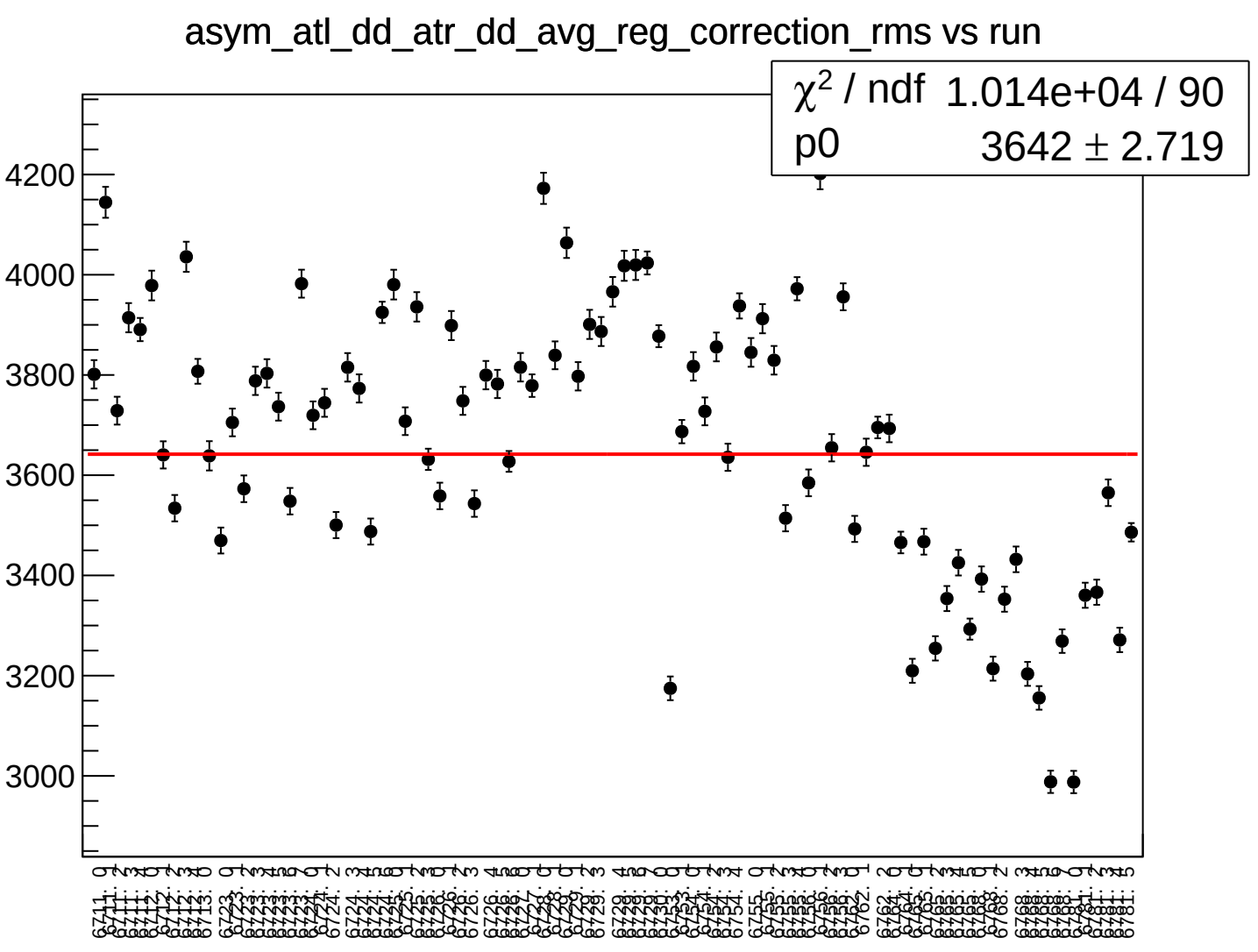

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.542e+05 / 90
p0 6.2e−11 ± 5.546e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

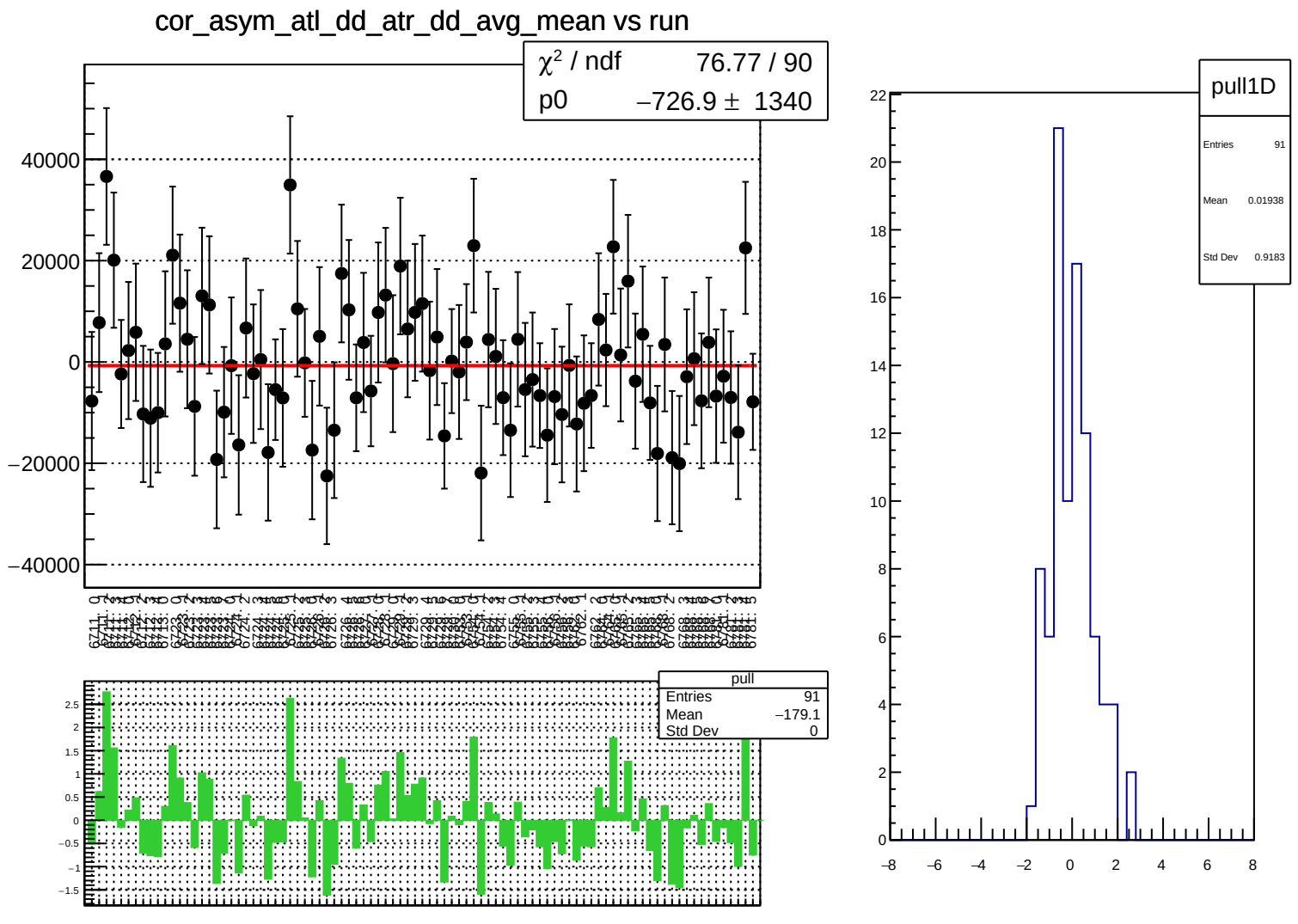

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 76.77 / 90
p0 −727.1± 1340
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −179.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean 0.01938
Std Dev 0.9183
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

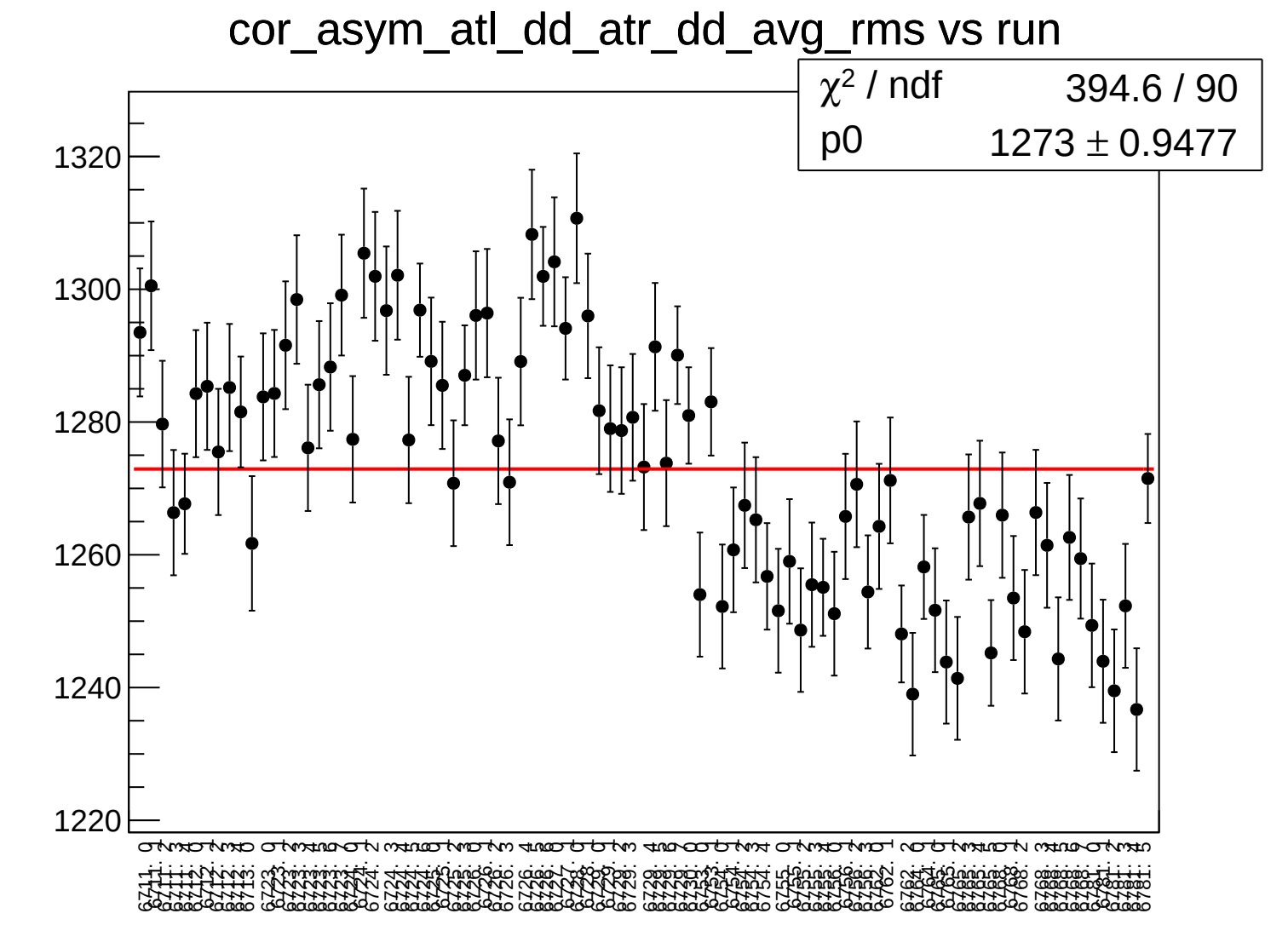

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 394.6 / 90
p0 1273 ± 0.9477
1320
1300
1280
1260
1240
1220

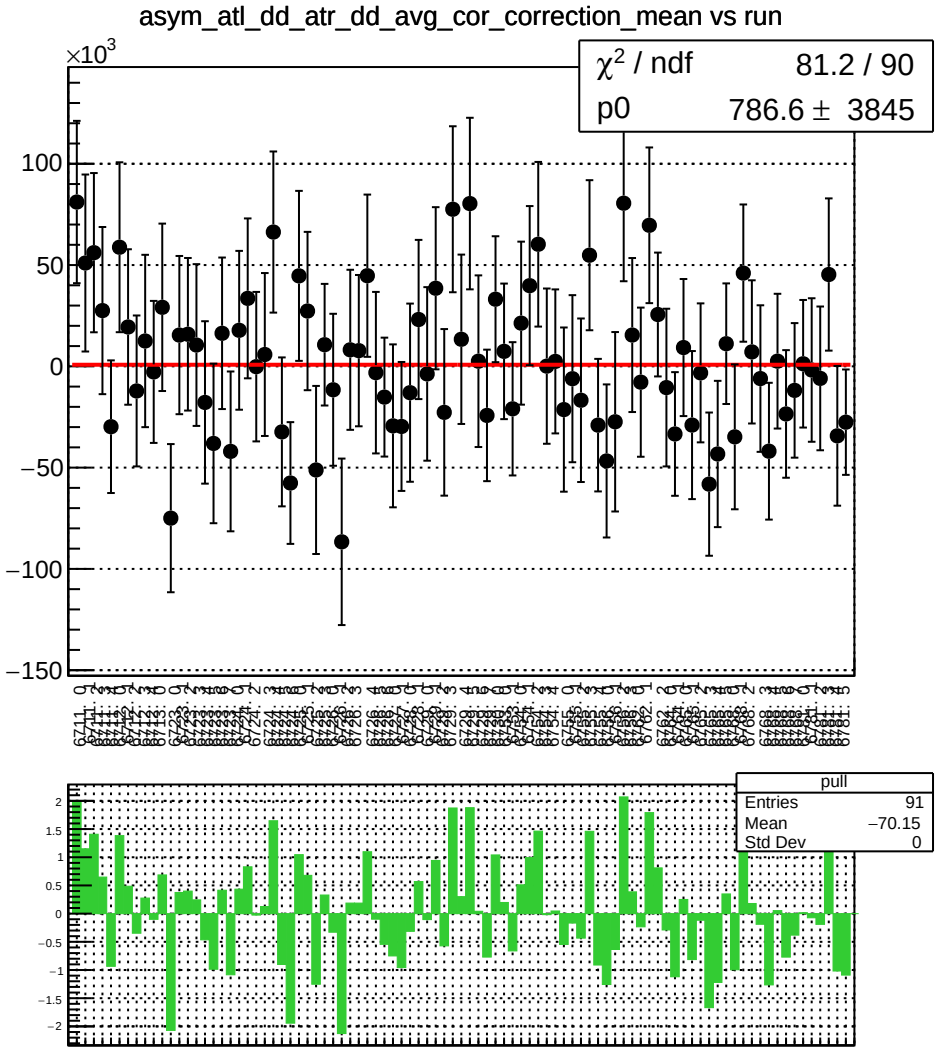

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 81.2 / 90
p0 786.5 ± 3845
100
50
0
−50
−100
−150
pull
Entries 91
Mean −70.16
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

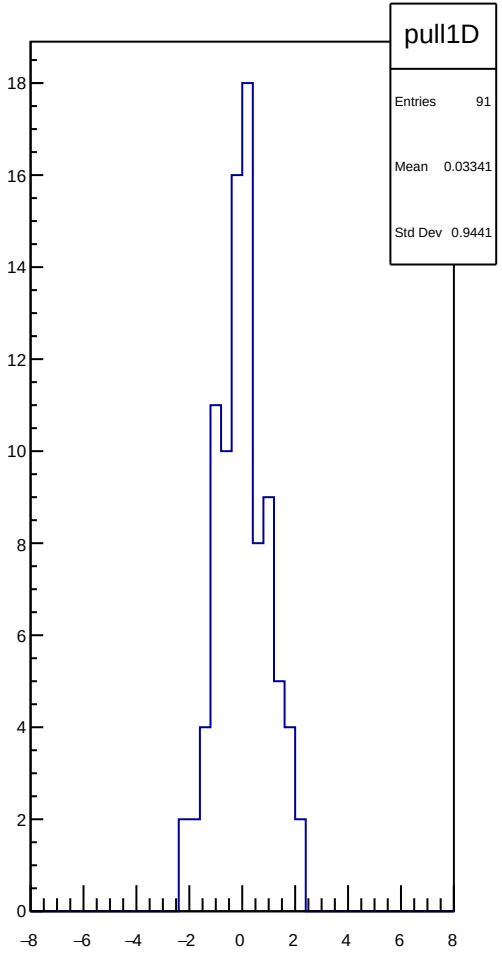

pull1D
Entries 91
Mean 0.03341
Std Dev 0.9441
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

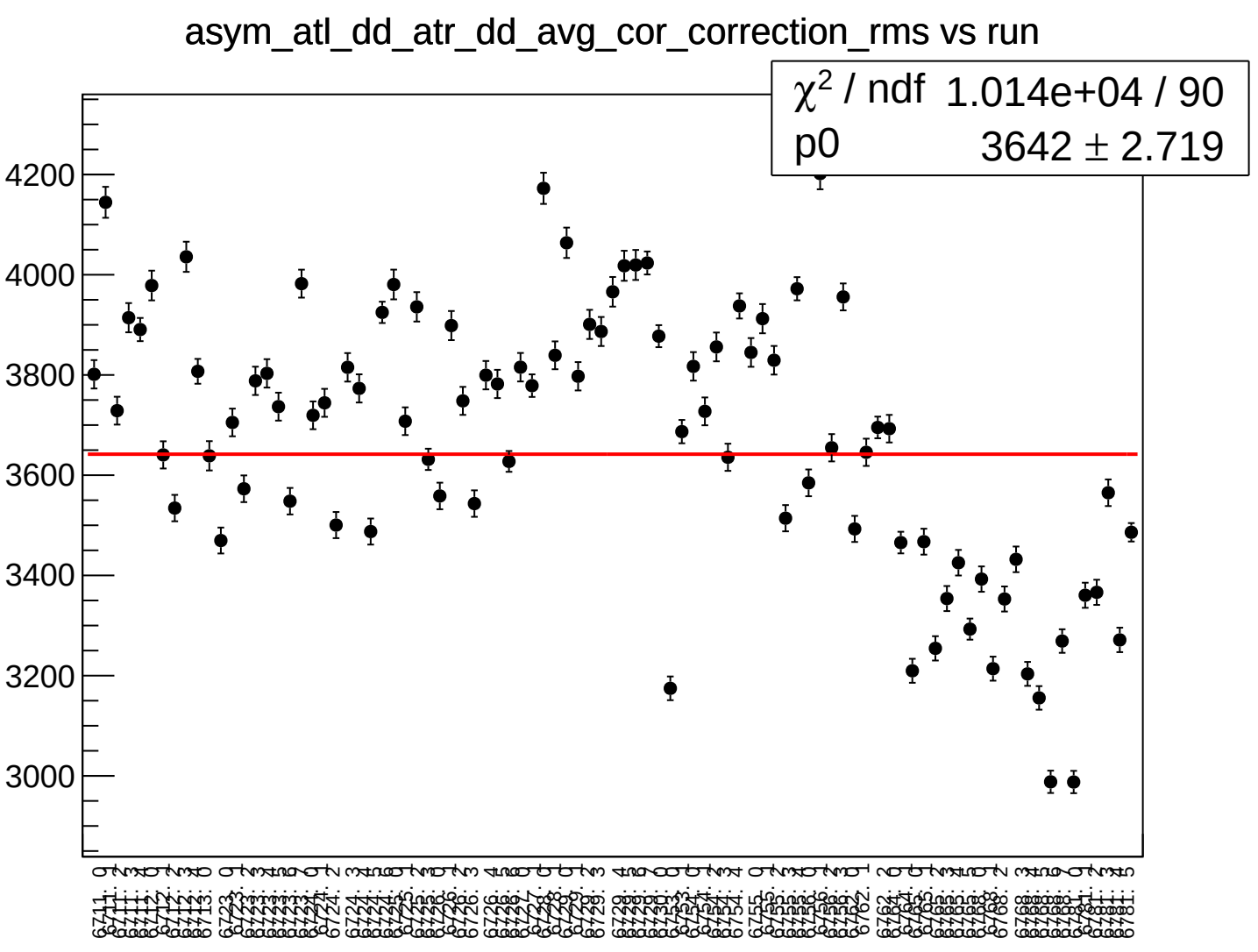

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.014e+04 / 90
p0 3642 ± 2.719
4200
4000
3800
3600
3400
3200
3000

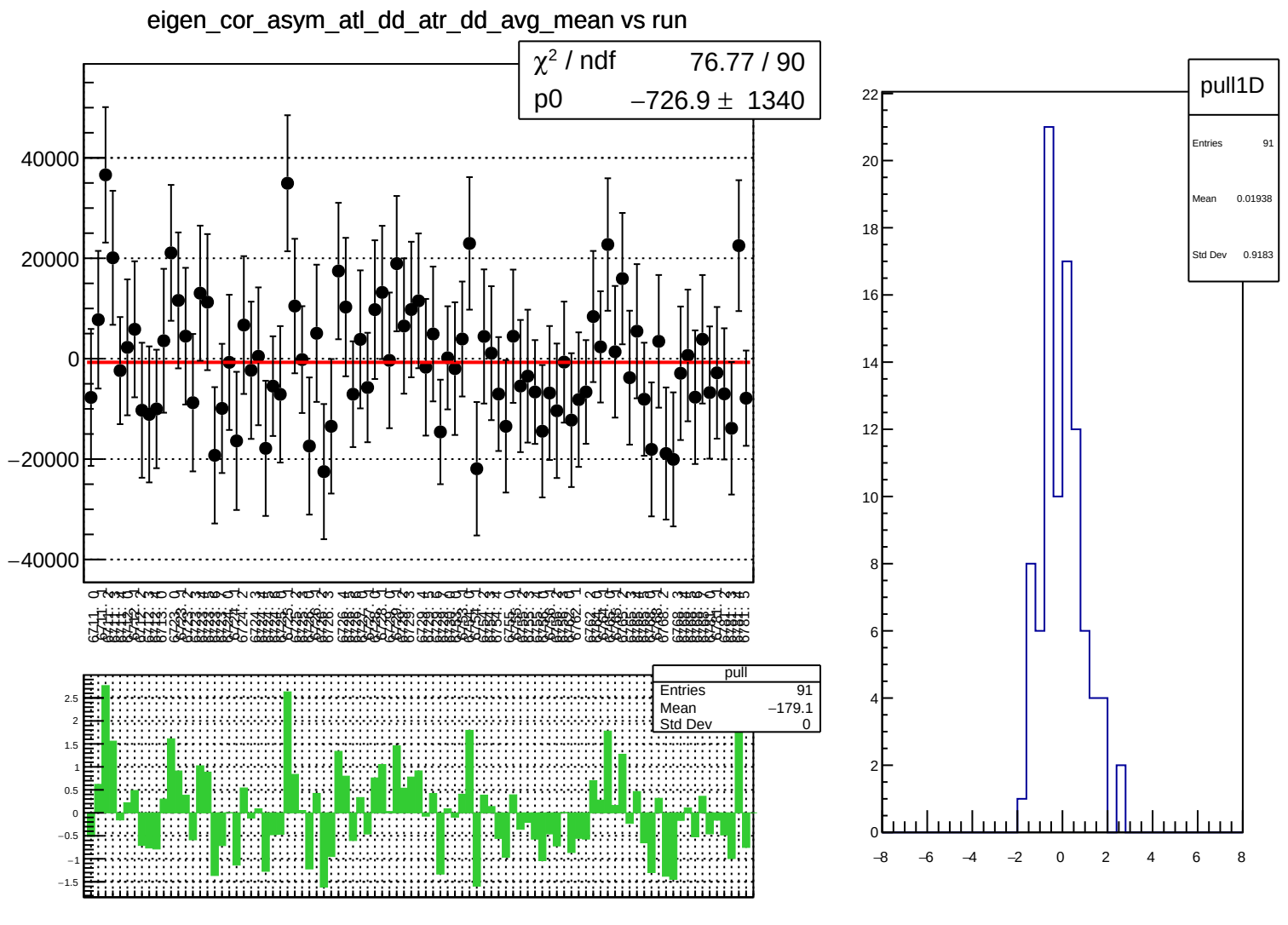

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 76.77 / 90
p0 −726.9 ± 1340
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −179.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean 0.01938
Std Dev 0.9183
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

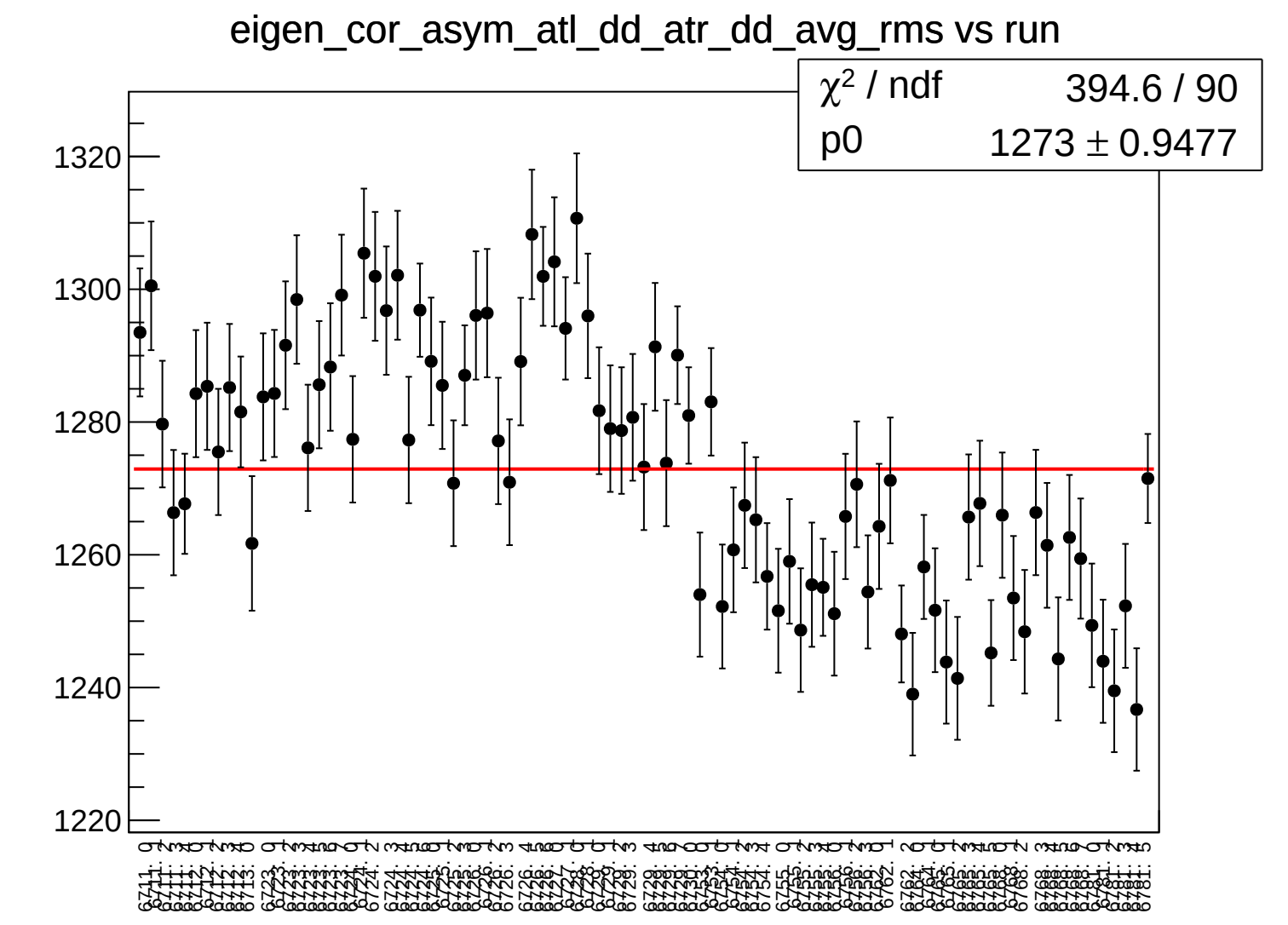

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 394.6 / 90
p0 1273 ± 0.9477
1320
1300
1280
1260
1240
1220

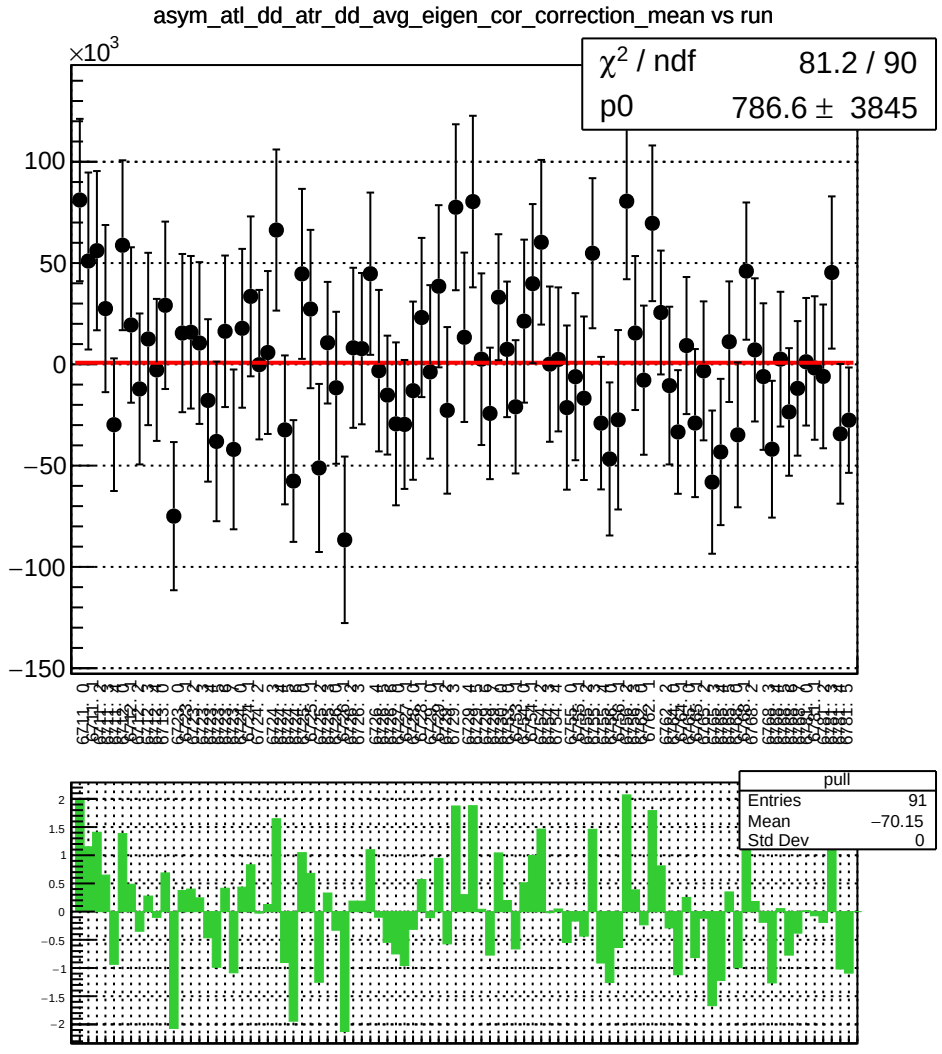

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
χ² / ndf 81.2 / 90
p0 786.6 ± 3845
pull
Entries 91
Mean −70.15
Std Dev 0

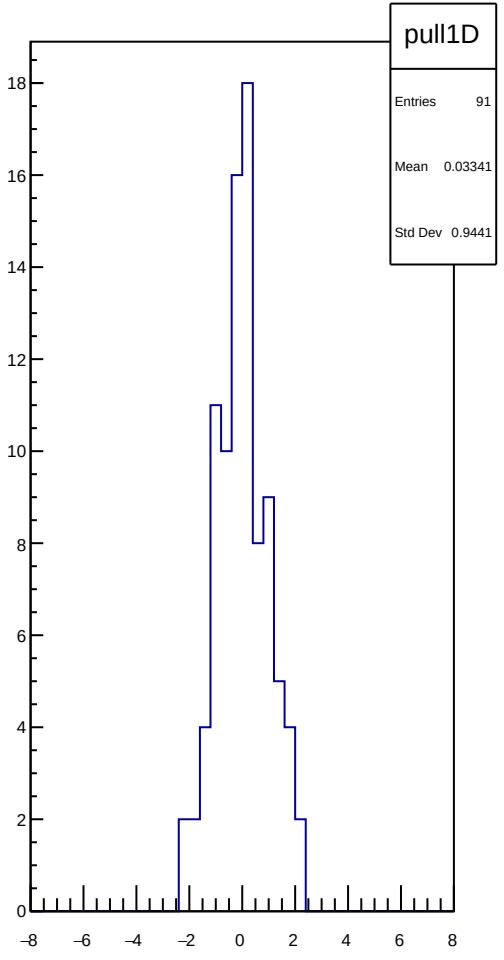

pull1D
Entries 91
Mean 0.03341
Std Dev 0.9441

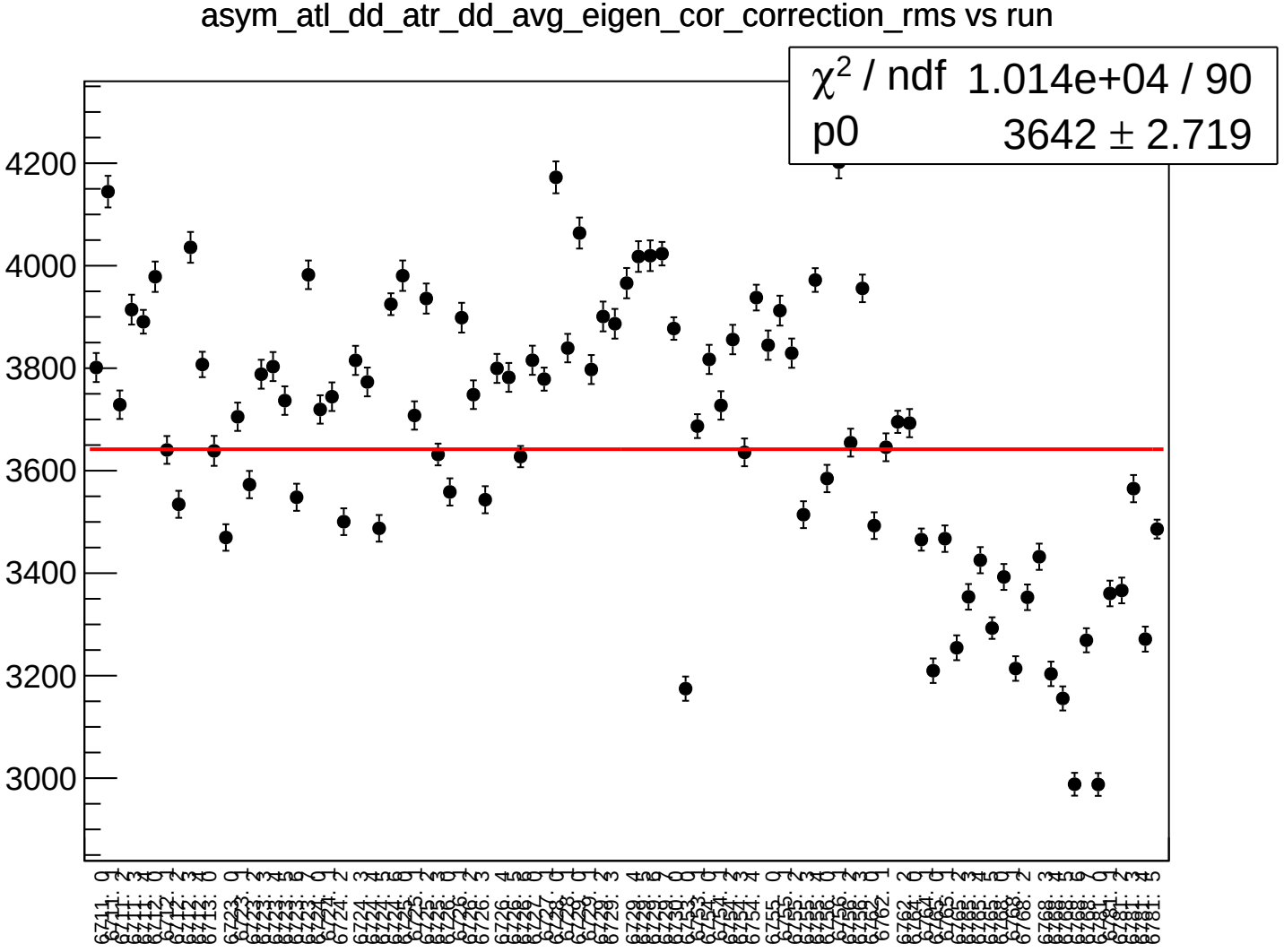

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.014e+04 / 90
p0 3642 ± 2.719
4200
4000
3800
3600
3400
3200
3000

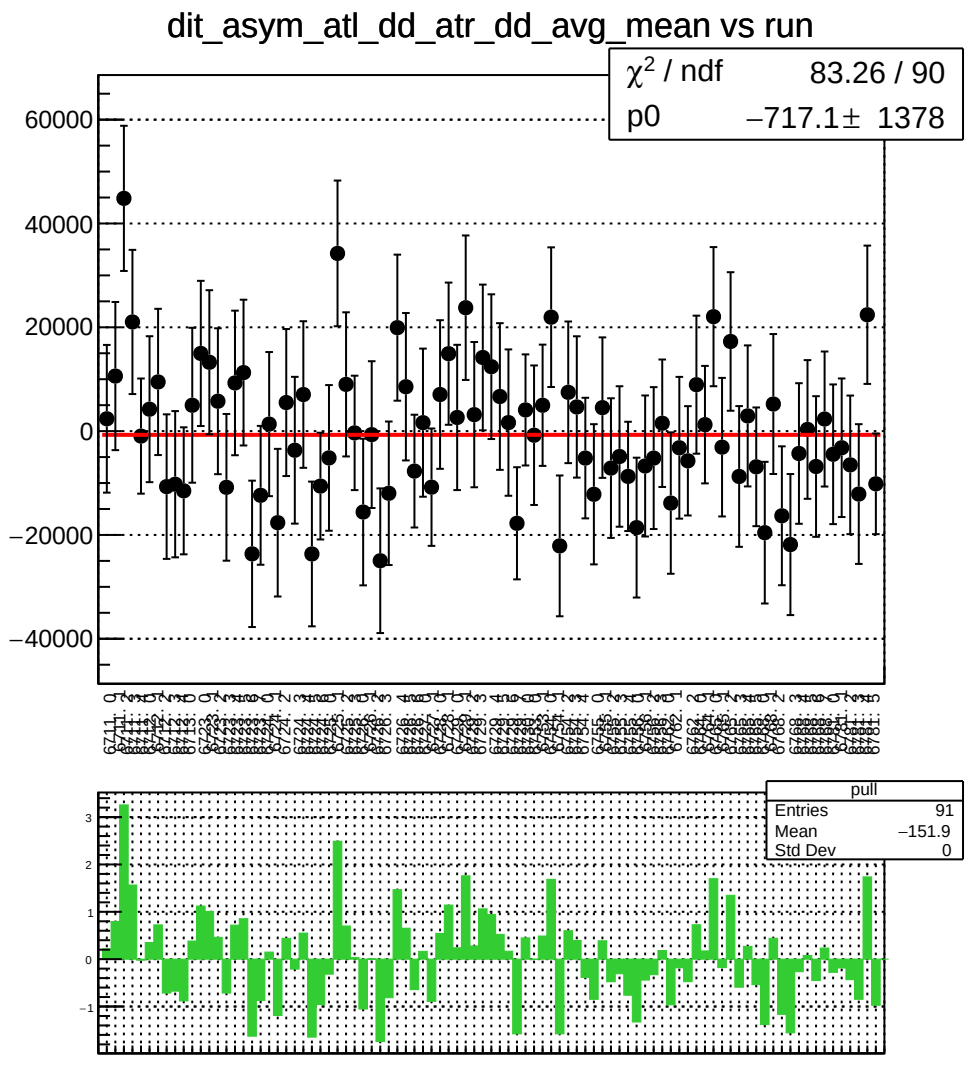

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 76.77 / 90
p0 −726.9 ± 1340
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −179.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean 0.01938
Std Dev 0.9183
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

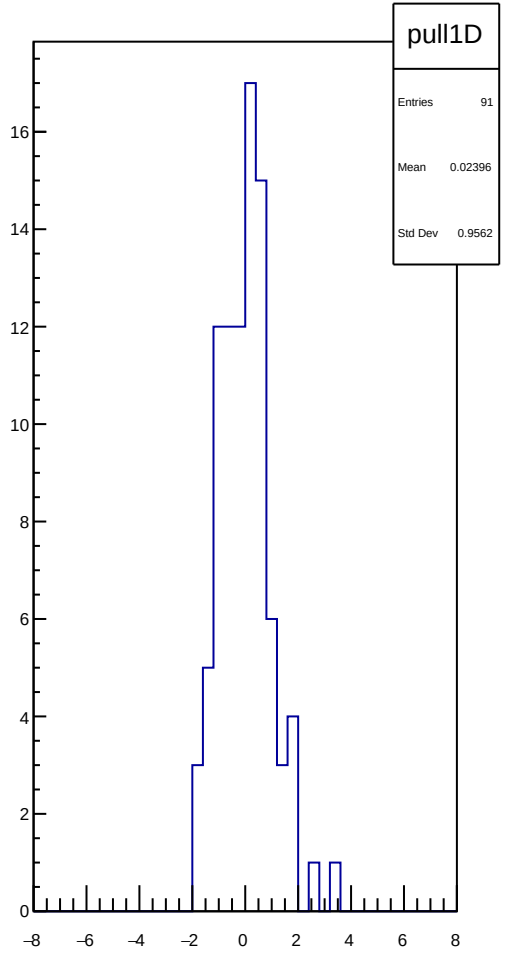

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 394.6 / 90
p0 1273 ± 0.9477
1320
1300
1280
1260
1240
1220

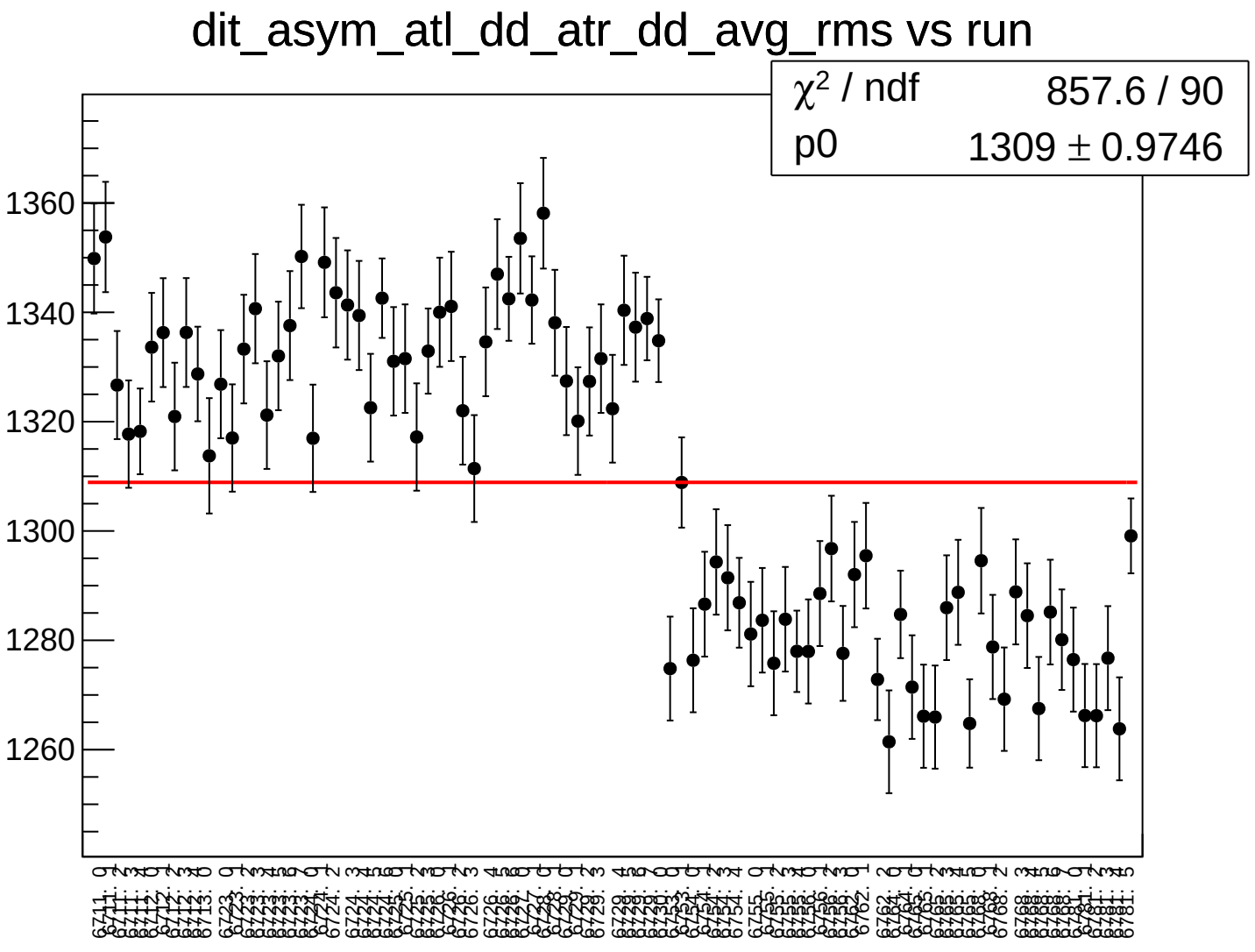

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.2 / 90
p0 786.6 ± 3845
×10³
pull
Entries 91
Mean −70.15
Std Dev 0

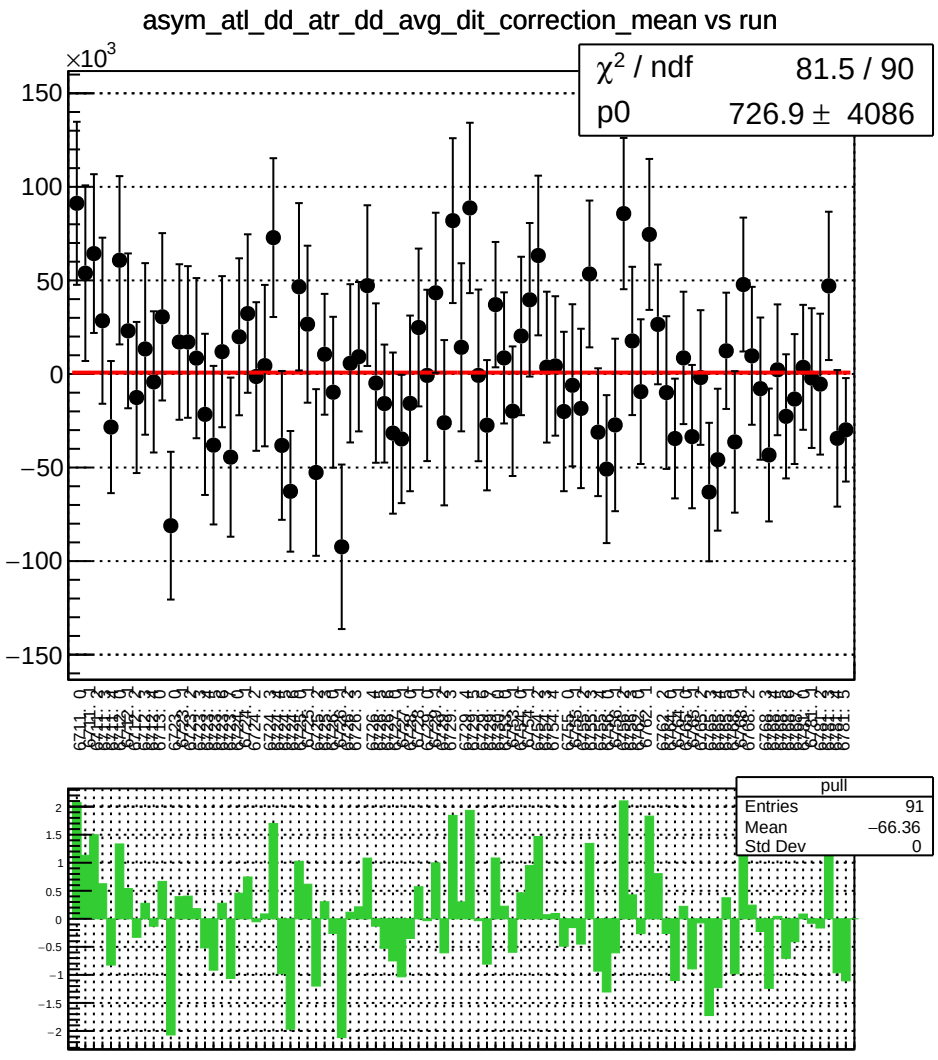

pull1D
Entries 91
Mean 0.03341
Std Dev 0.9441

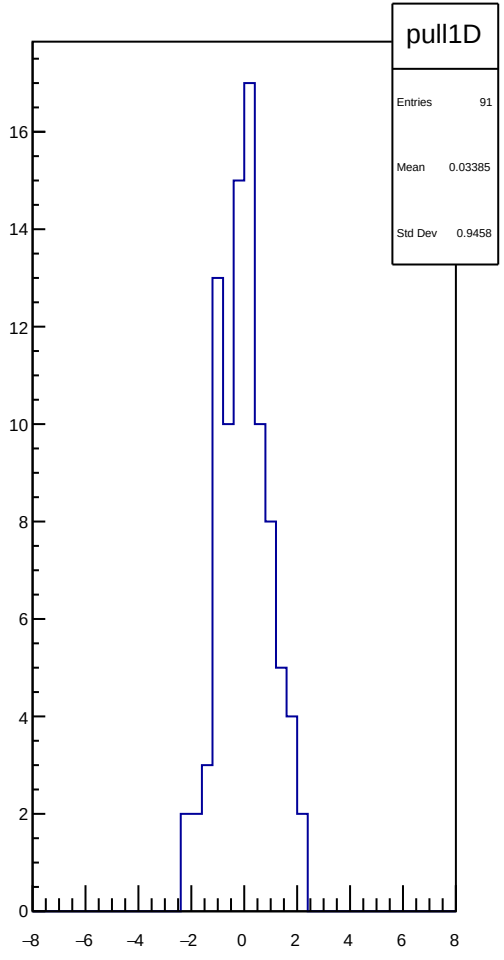

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.014e+04 / 90
p0 3642 ± 2.719
4200
4000
3800
3600
3400
3200
3000

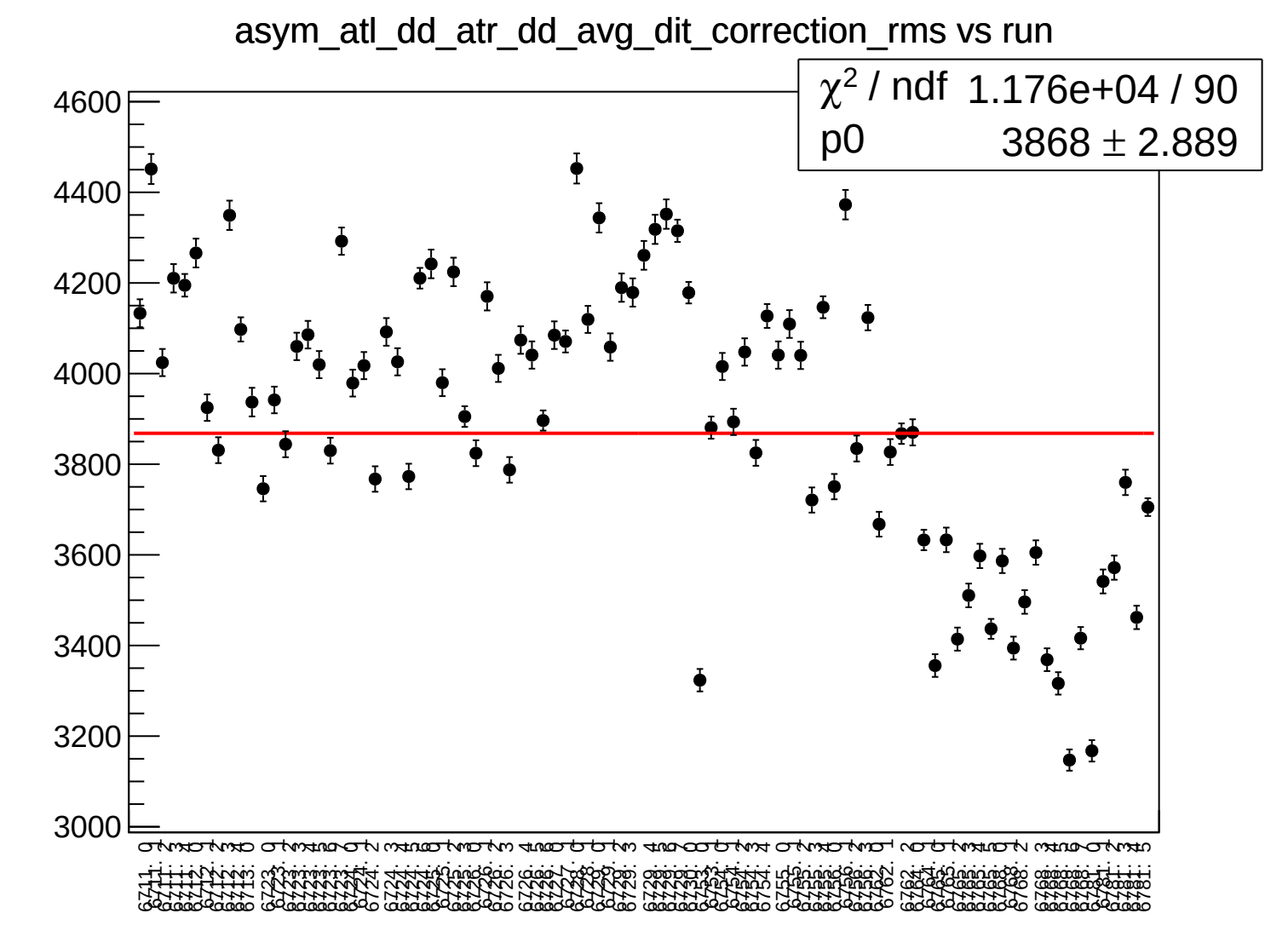

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 83.26 / 90
p0 −717.1± 1378
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −151.9
Std Dev 0
3
2
1
0
−1

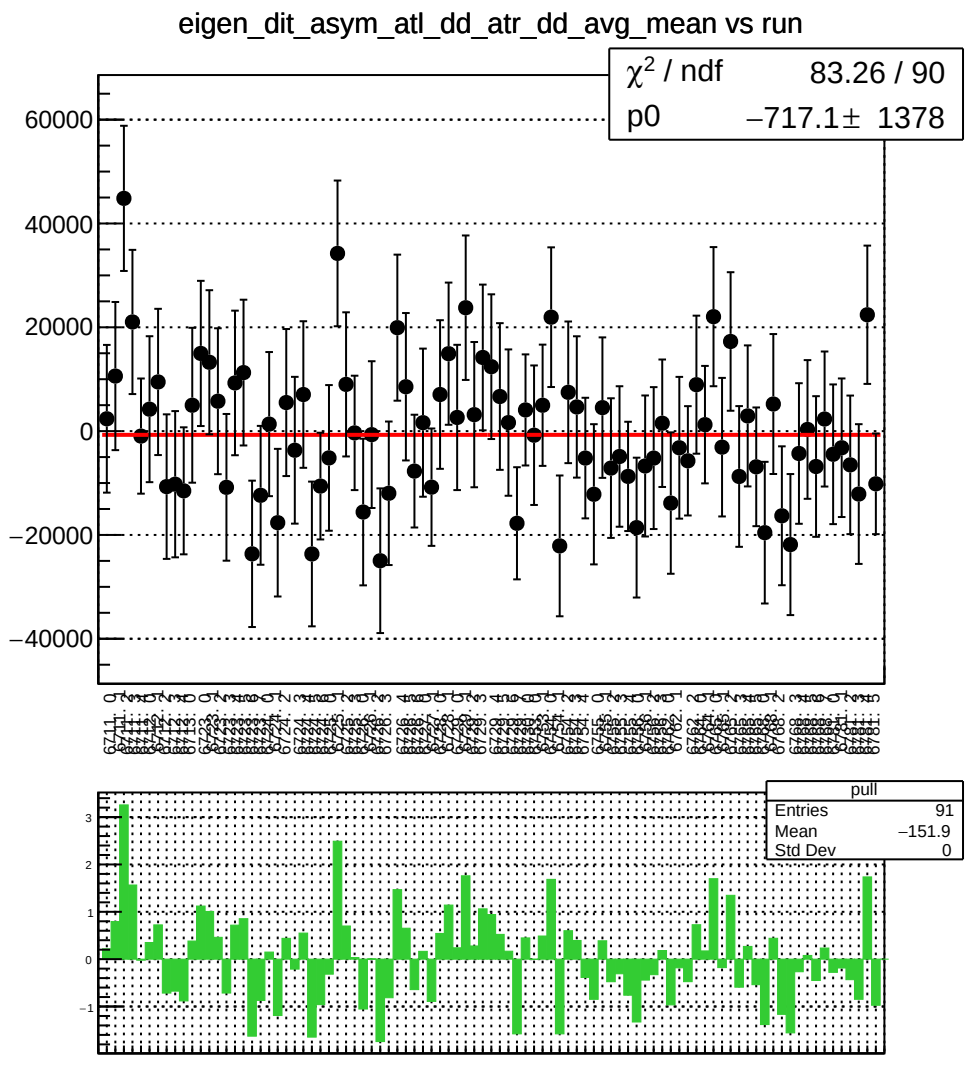

pull1D
Entries 91
Mean 0.02396
Std Dev 0.9562
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

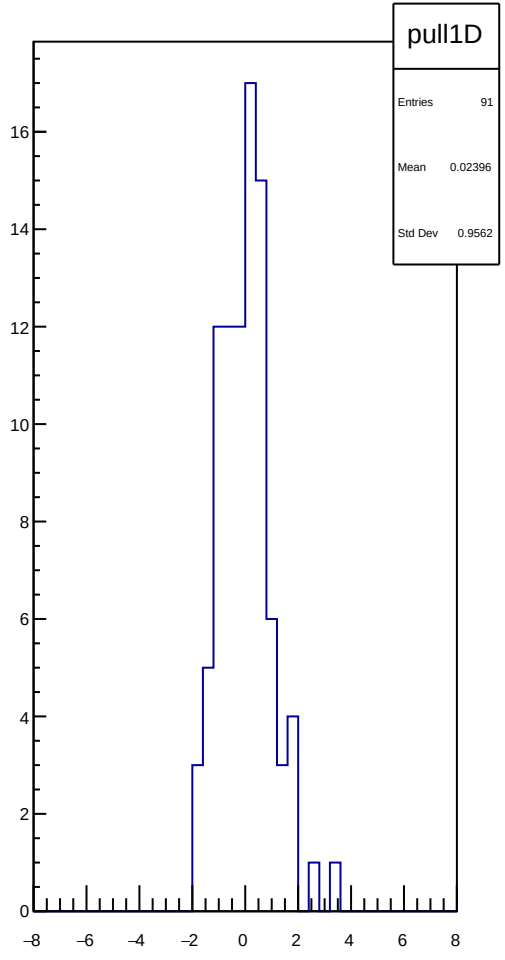

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 857.6 / 90
p0 1309 ± 0.9746
1360
1340
1320
1300
1280
1260

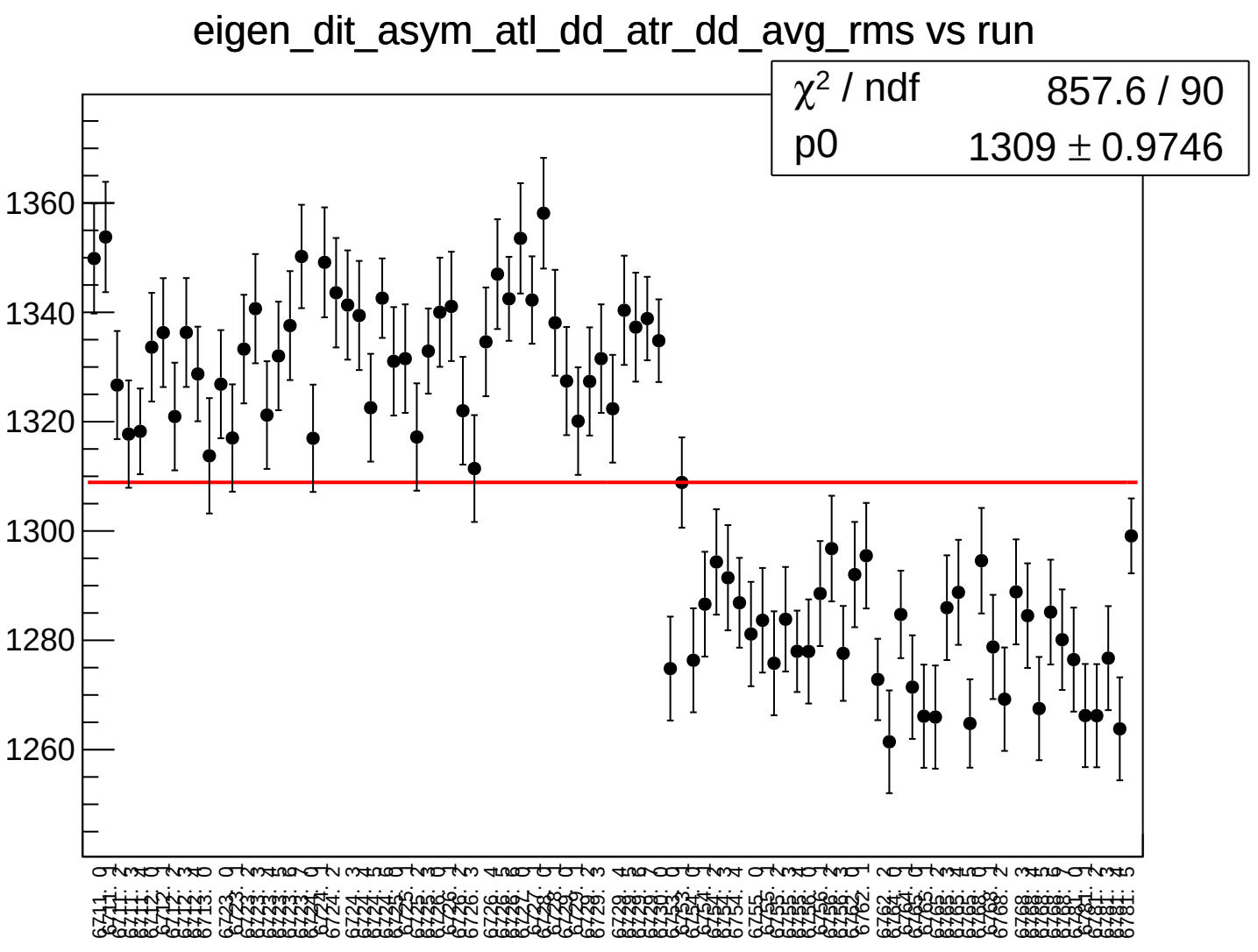

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 81.5 / 90
p0 726.9 ± 4086
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −66.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

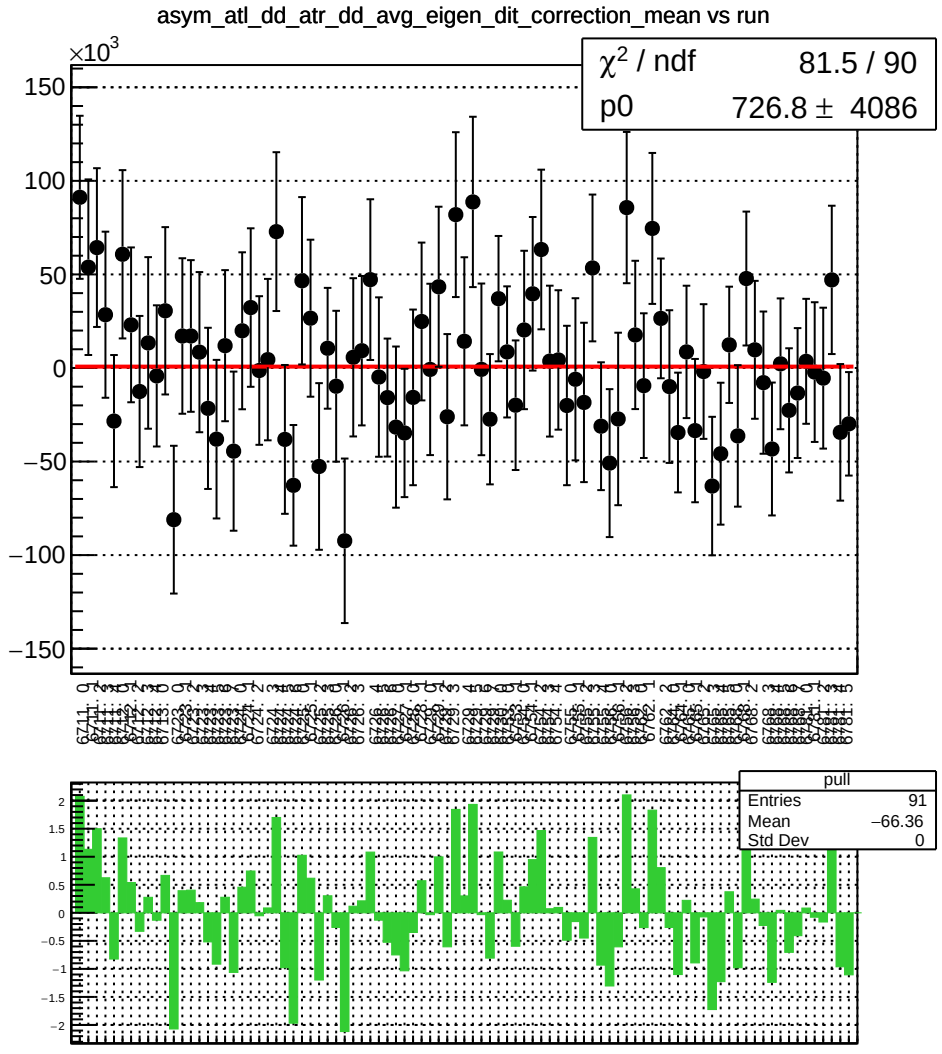

pull1D
Entries 91
Mean 0.03385
Std Dev 0.9458
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

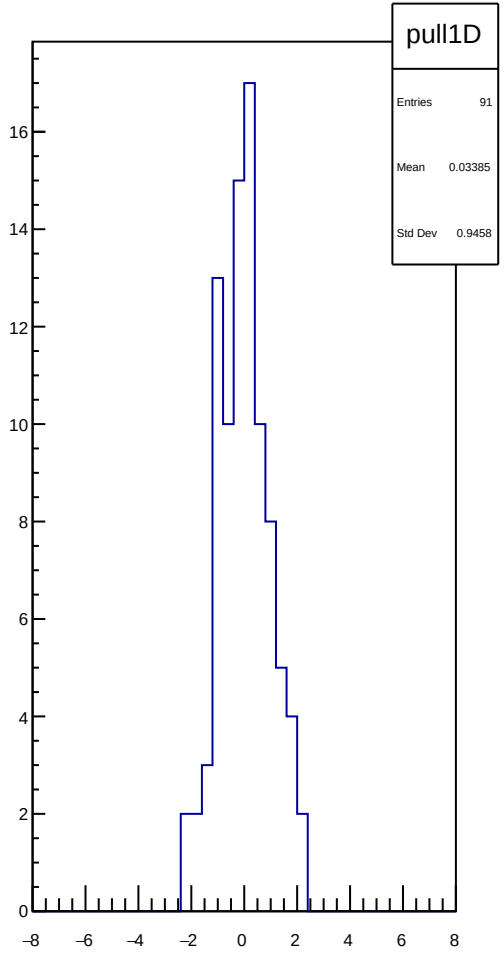

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.176e+04 / 90
p0 3868 ± 2.889
4600
4400
4200
4000
3800
3600
3400
3200
3000

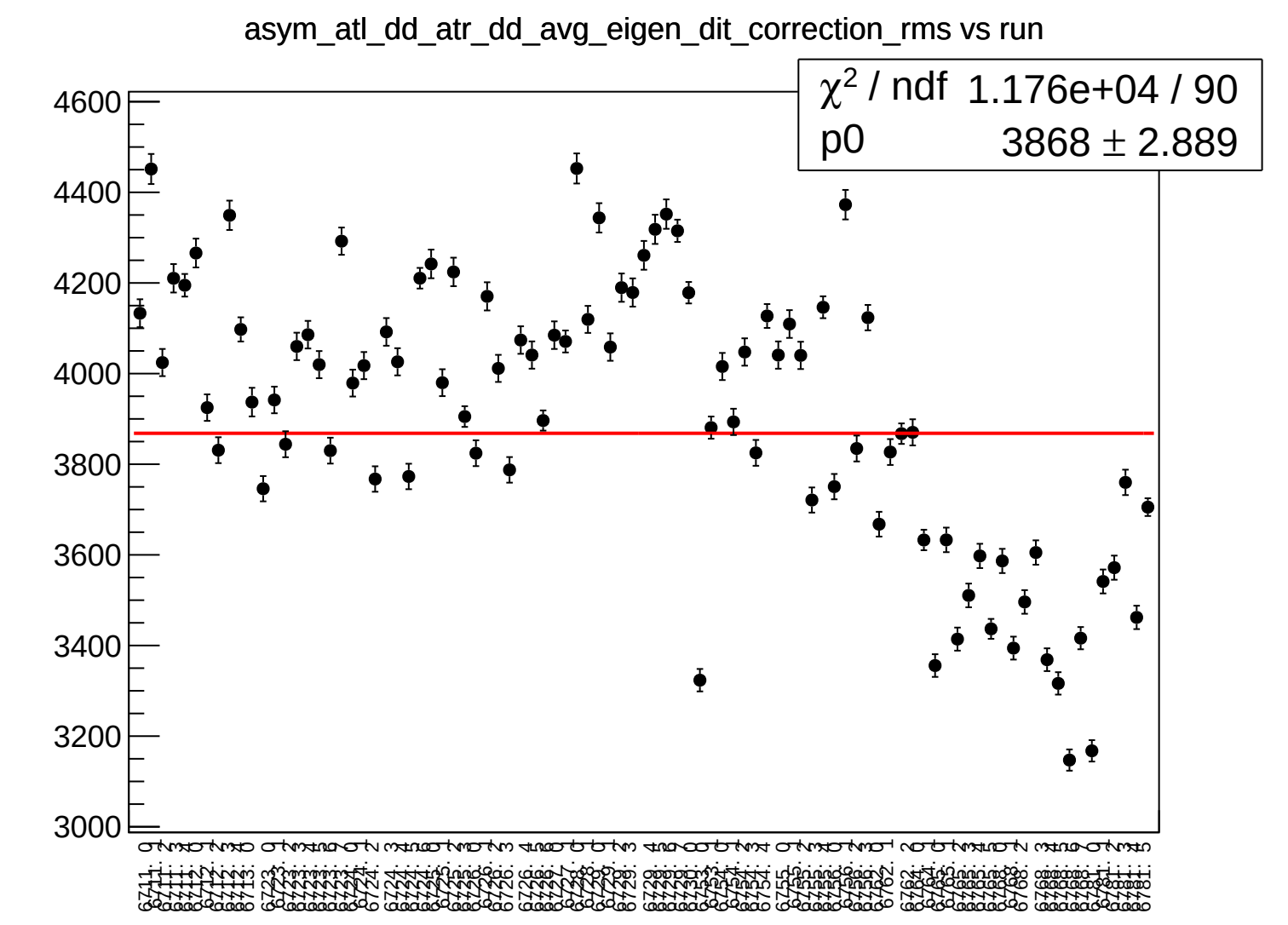

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 83.26 / 90
p0 −717.1± 1378
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −151.9
Std Dev 0
3
2
1
0
−1

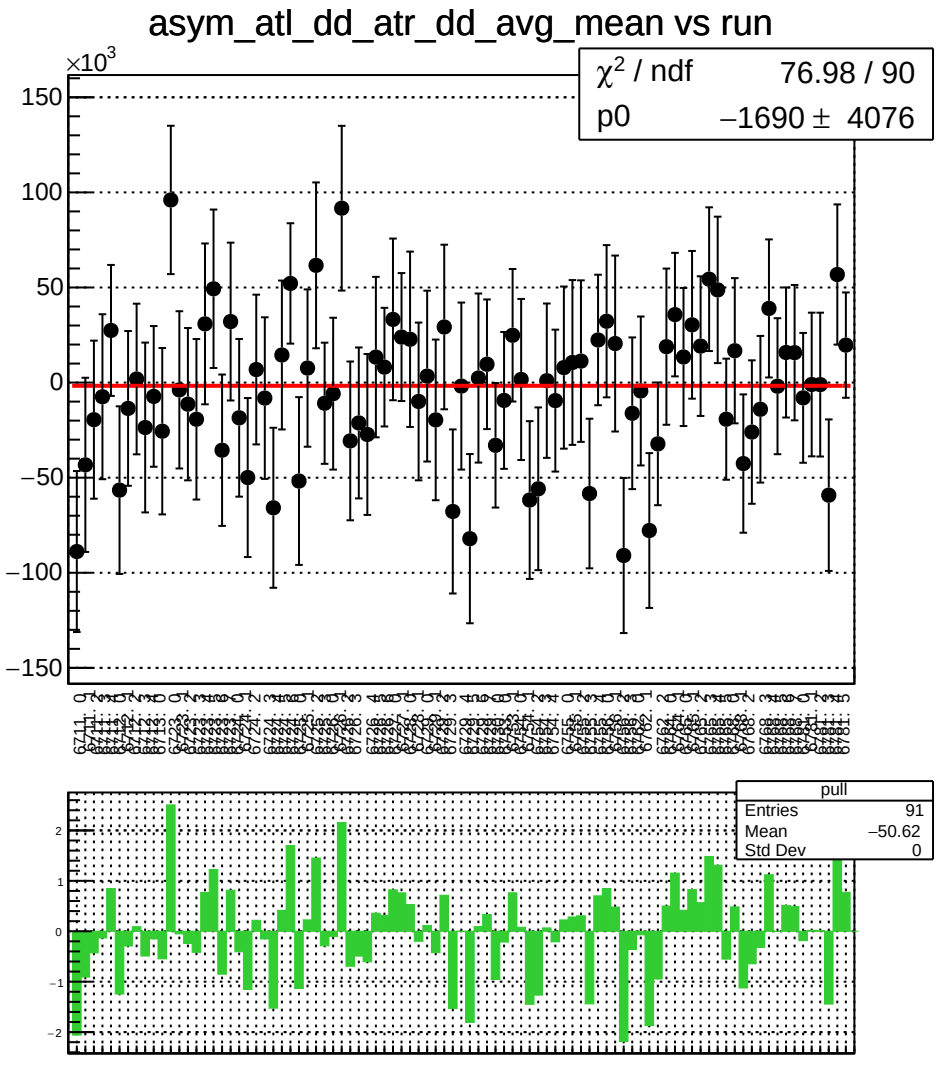

pull1D
Entries 91
Mean 0.02396
Std Dev 0.9562
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

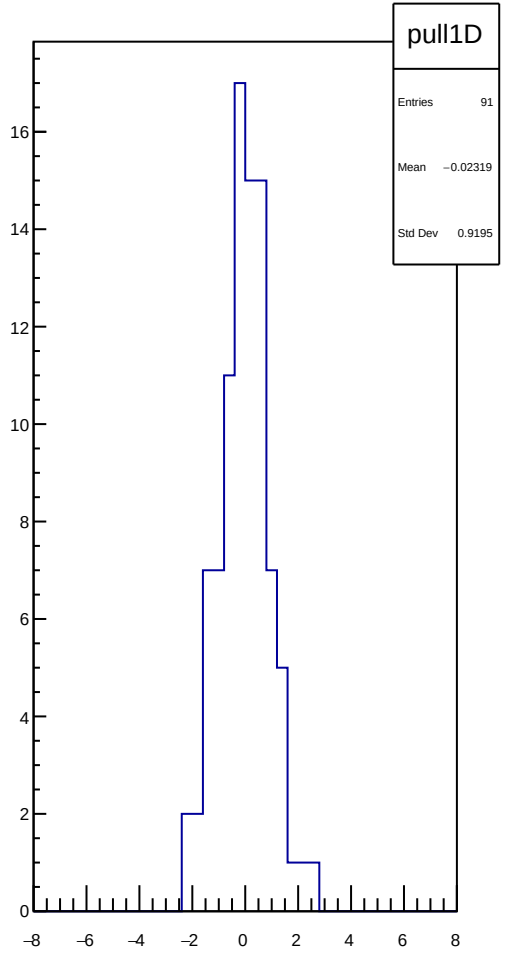

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 857.6 / 90
p0 1309 ± 0.9746
1360
1340
1320
1300
1280
1260

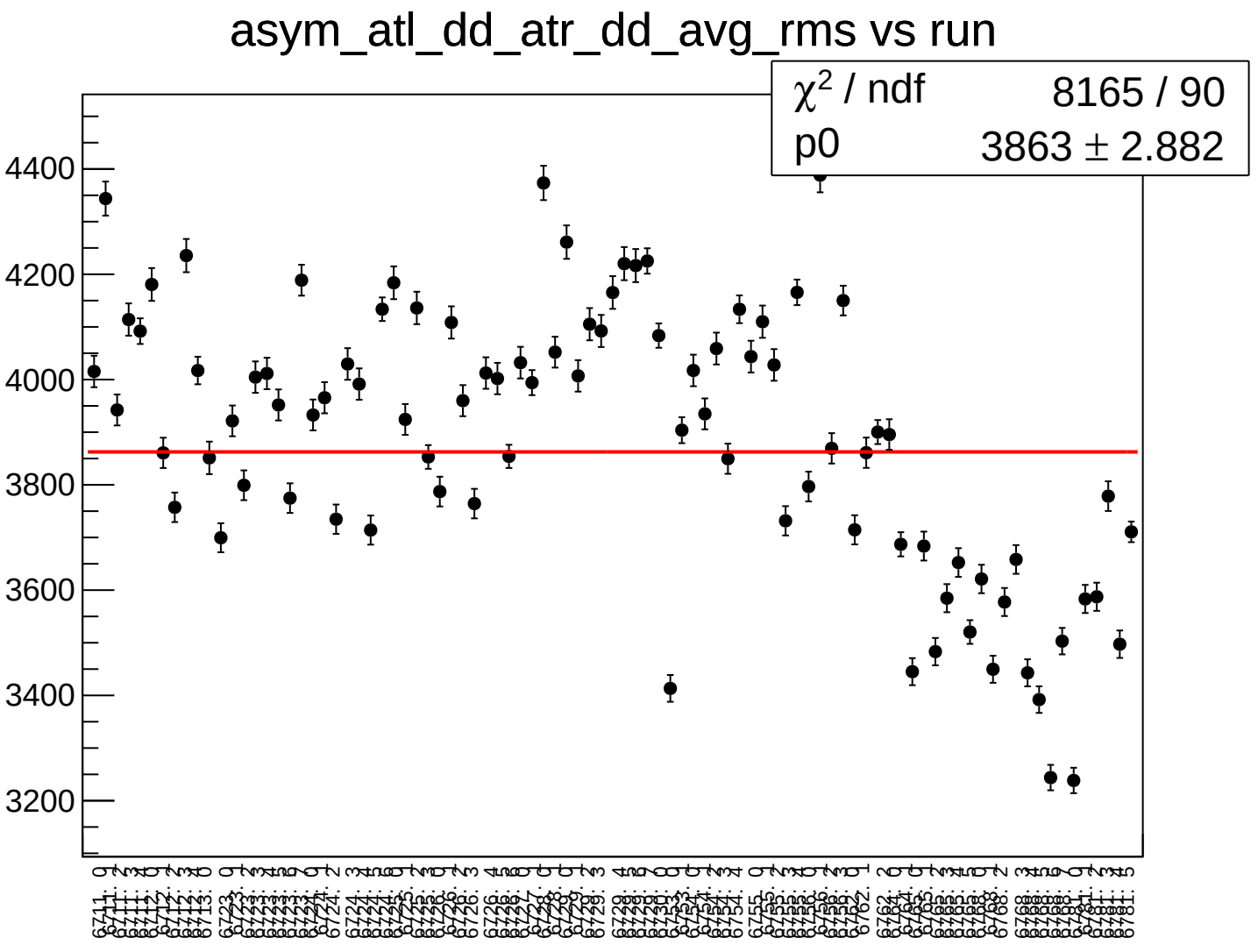

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.5 / 90
p0 726.8 ± 4086
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −66.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

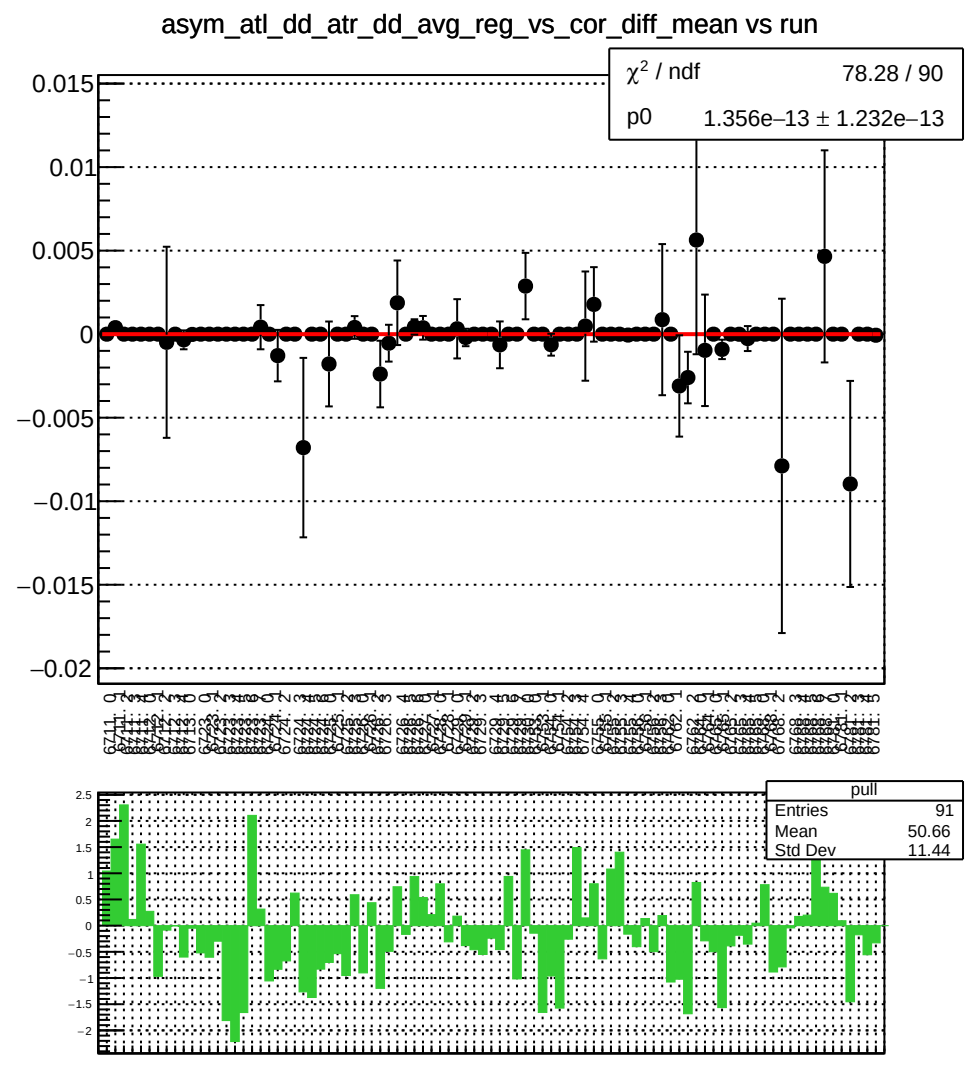

pull1D
Entries 91
Mean 0.03385
Std Dev 0.9458
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

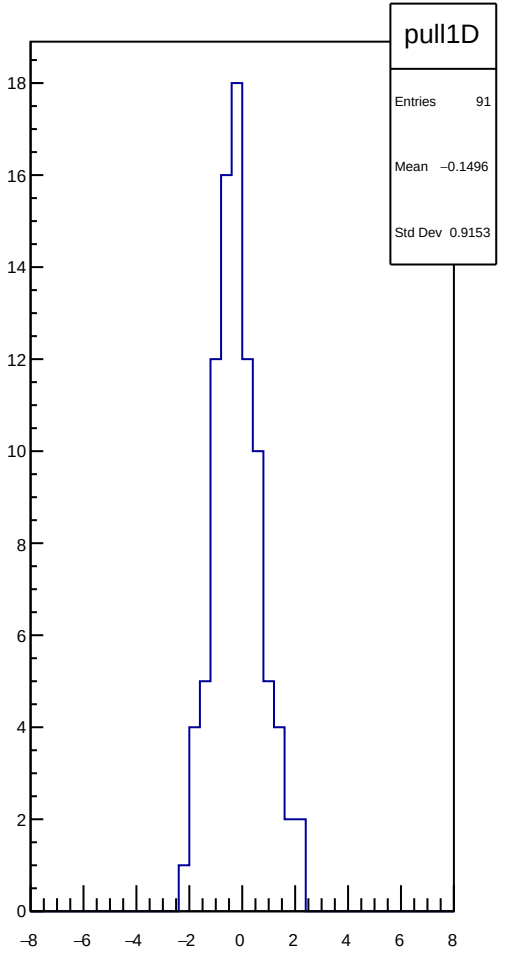

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.176e+04 / 90
p0 3868 ± 2.889
4600
4400
4200
4000
3800
3600
3400
3200
3000

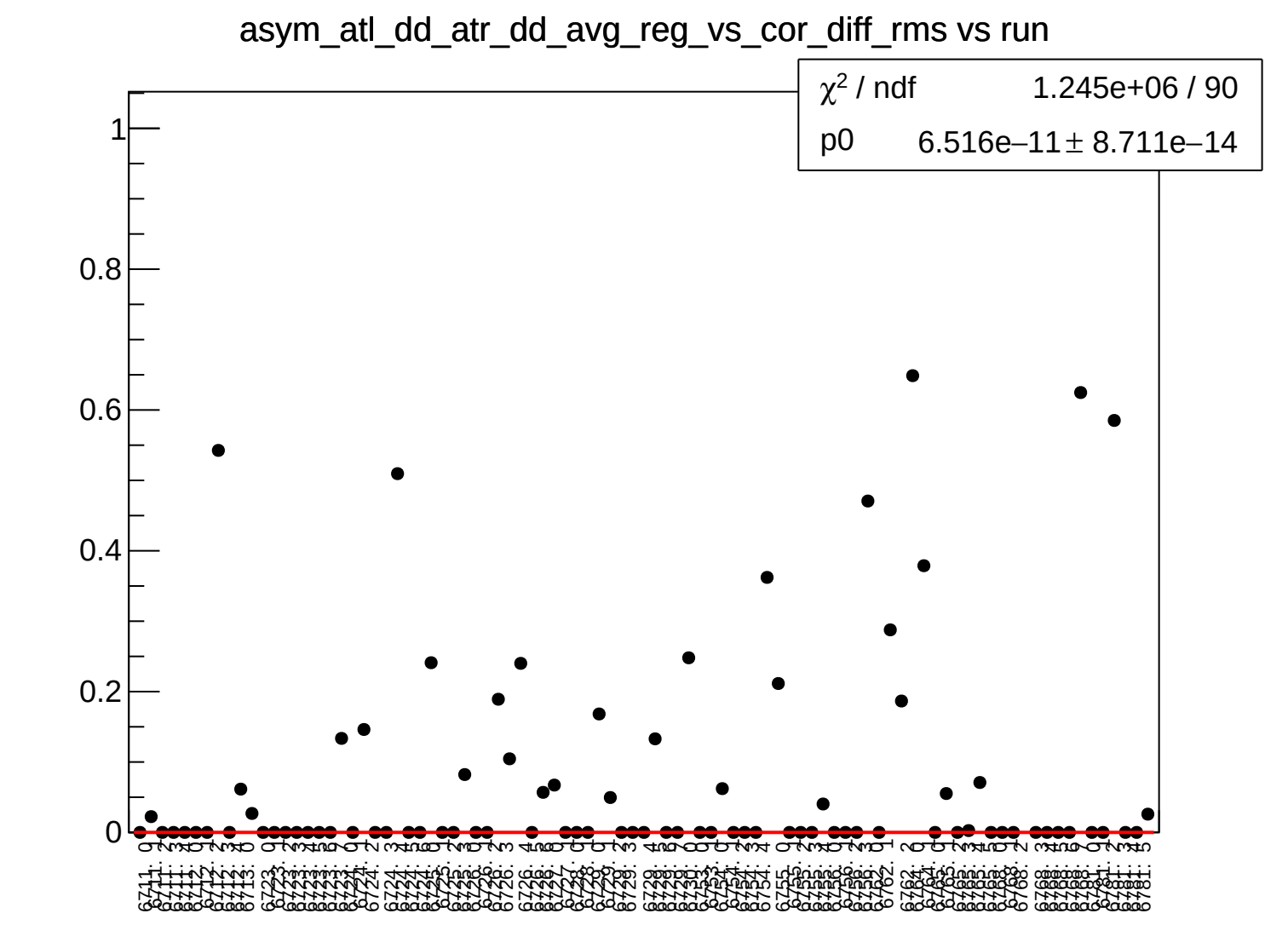

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 76.98 / 90
p0 −1690 ± 4076
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −50.62
Std Dev 0
2
1
0
−1
−2

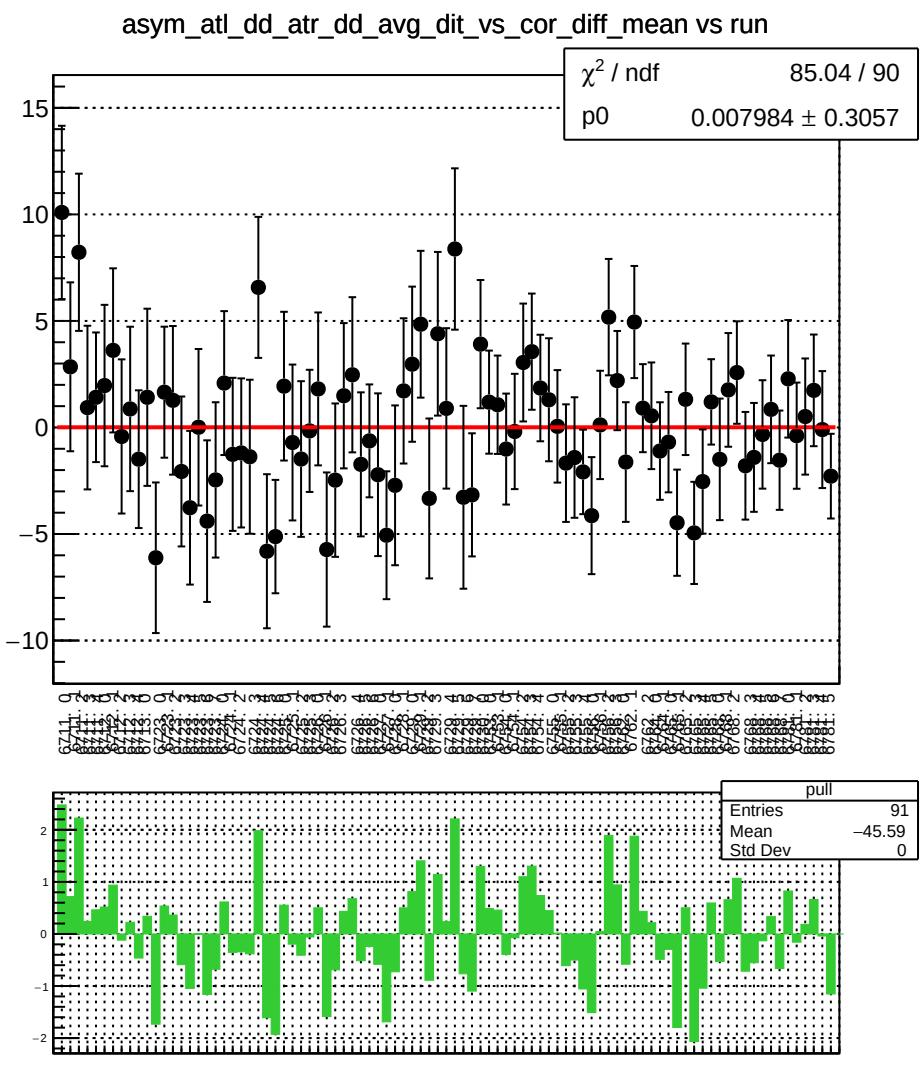

pull1D
Entries 91
Mean −0.02319
Std Dev 0.9195
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

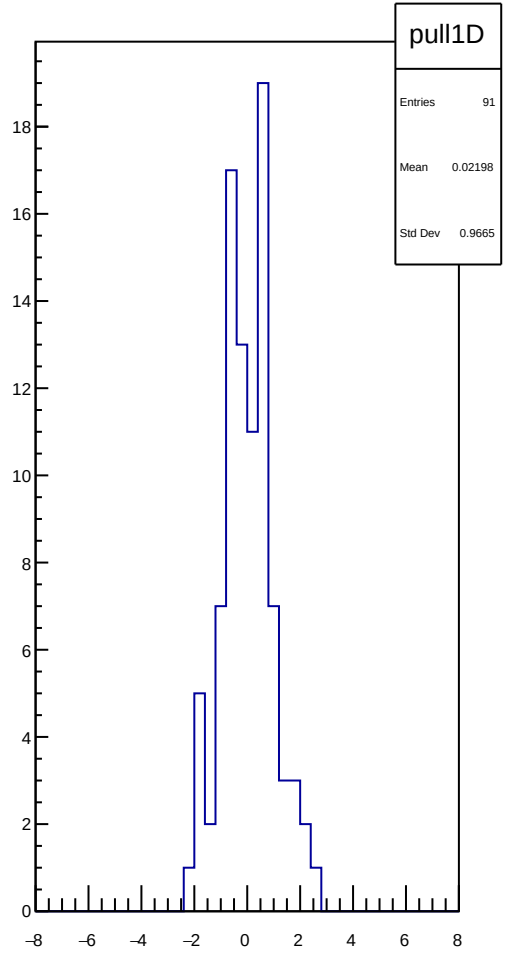

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 8165 / 90
p0 3863 ± 2.882
4400
4200
4000
3800
3600
3400
3200

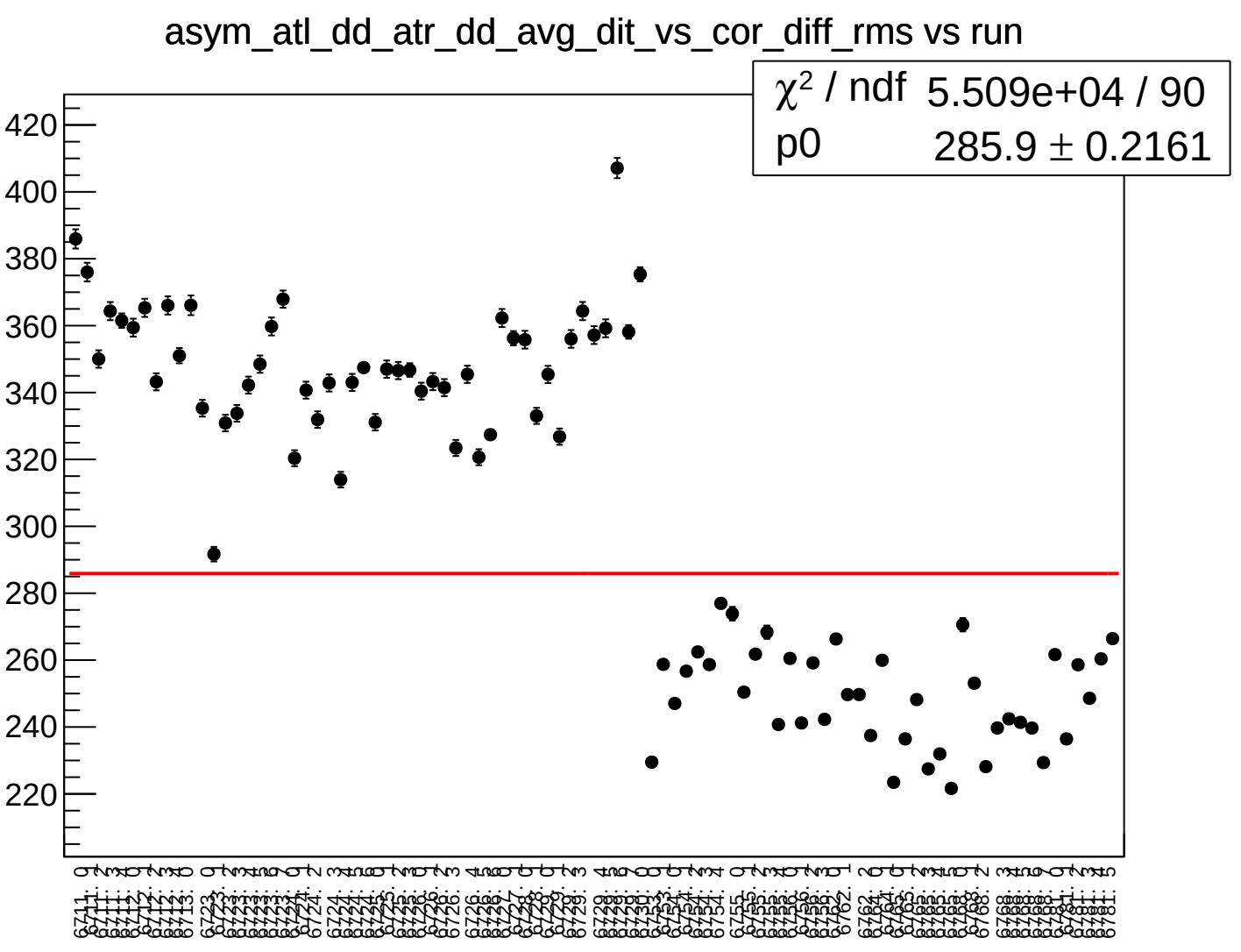

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.28 / 90
p0 1.356e−13 ± 1.232e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 91
Mean 50.66
Std Dev 11.44
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

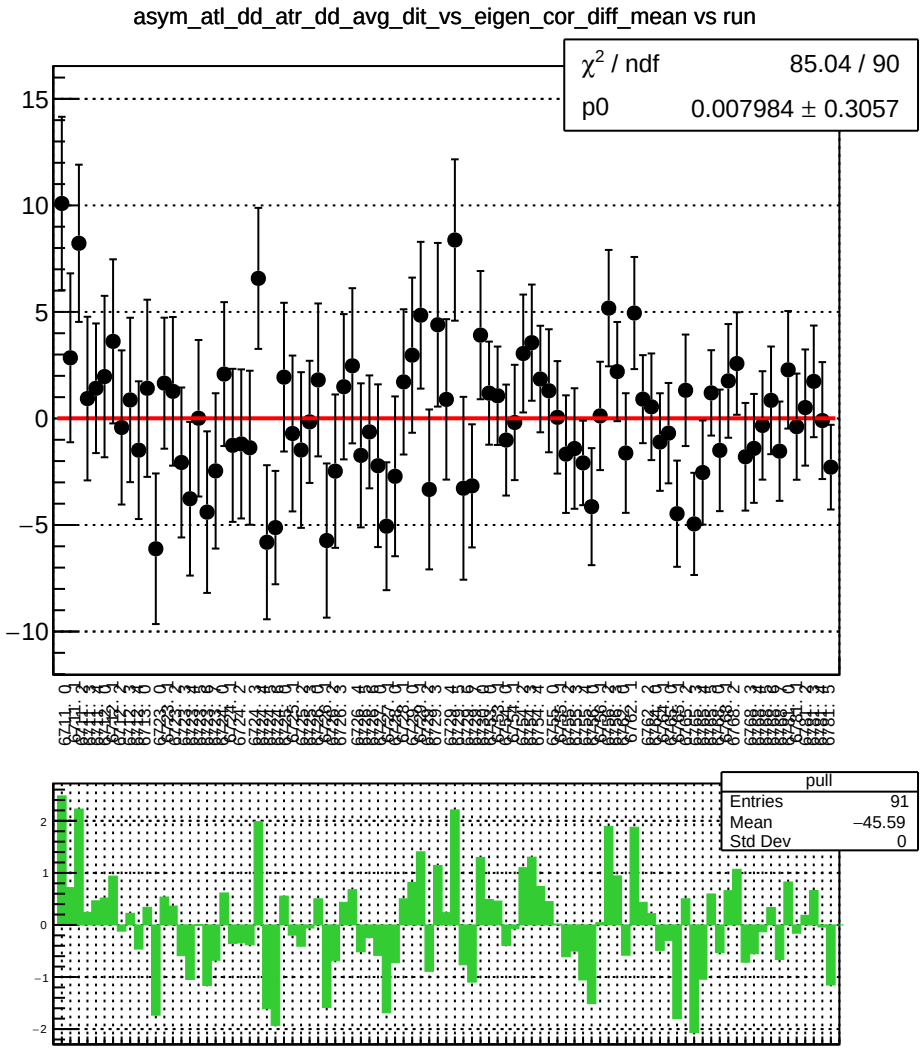

pull1D
Entries 91
Mean −0.1496
Std Dev 0.9153
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

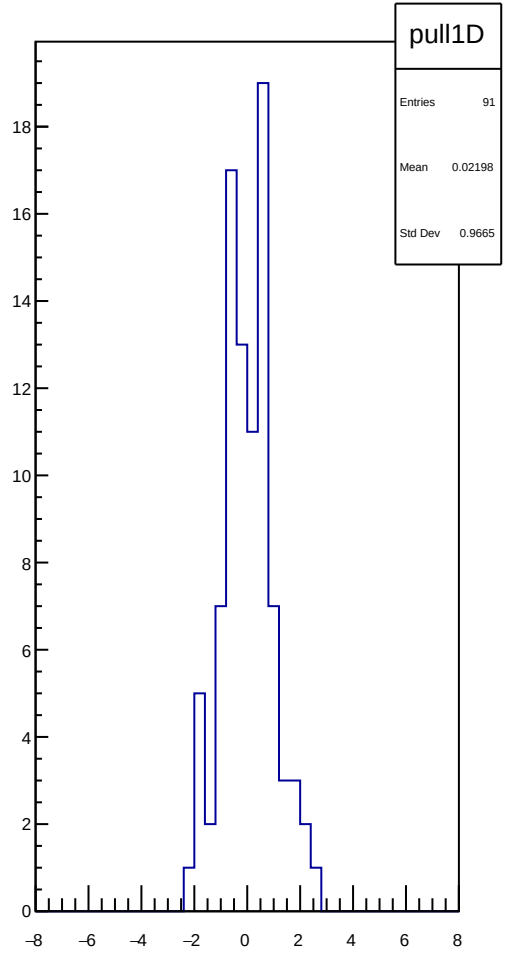

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.245e+06 / 90
p0 6.516e−11 ± 8.711e−14
1
0.8
0.6
0.4
0.2
0

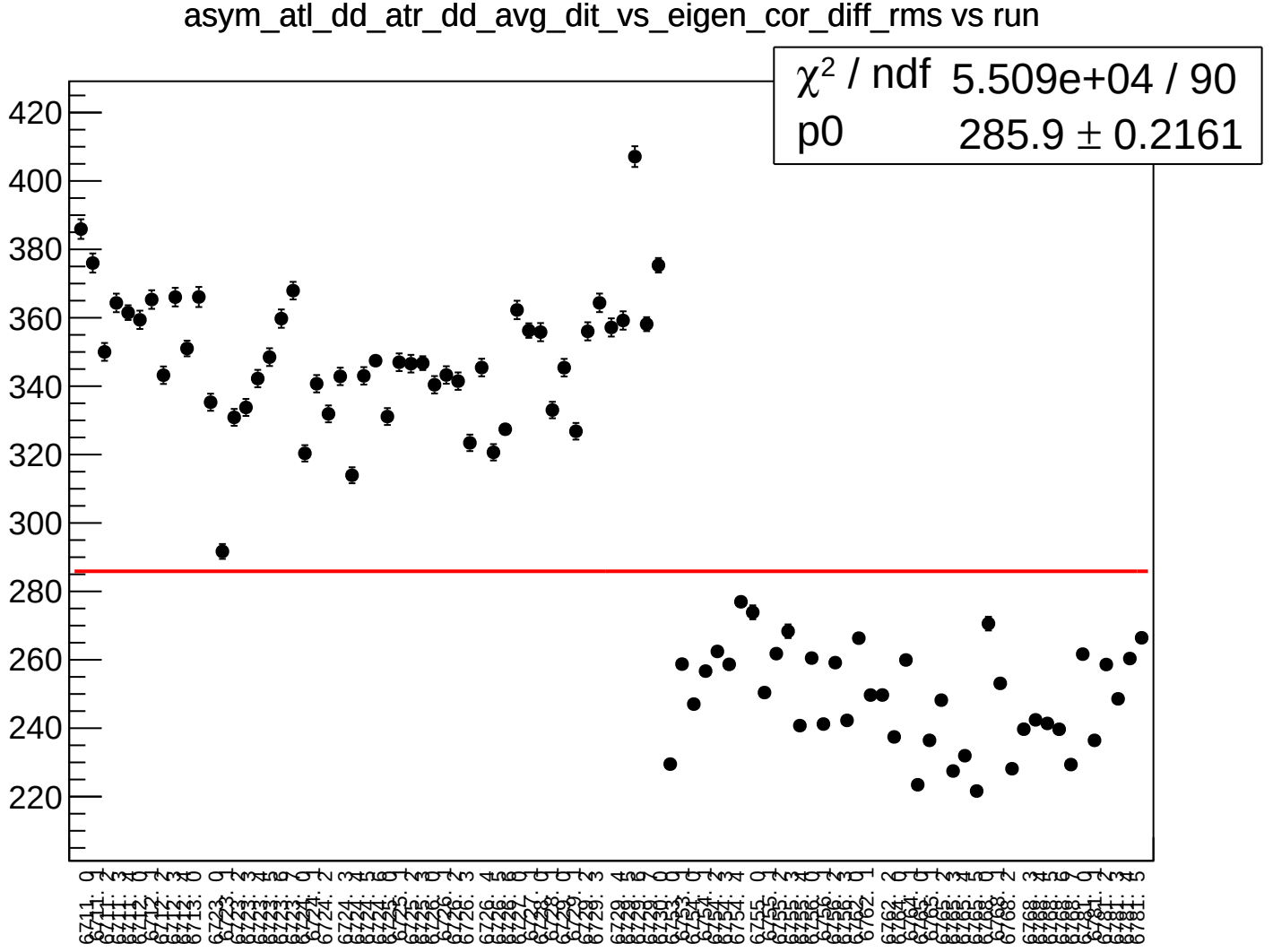

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.04 / 90
p0 0.007984 ± 0.3057
pull
Entries 91
Mean −45.59
Std Dev 0

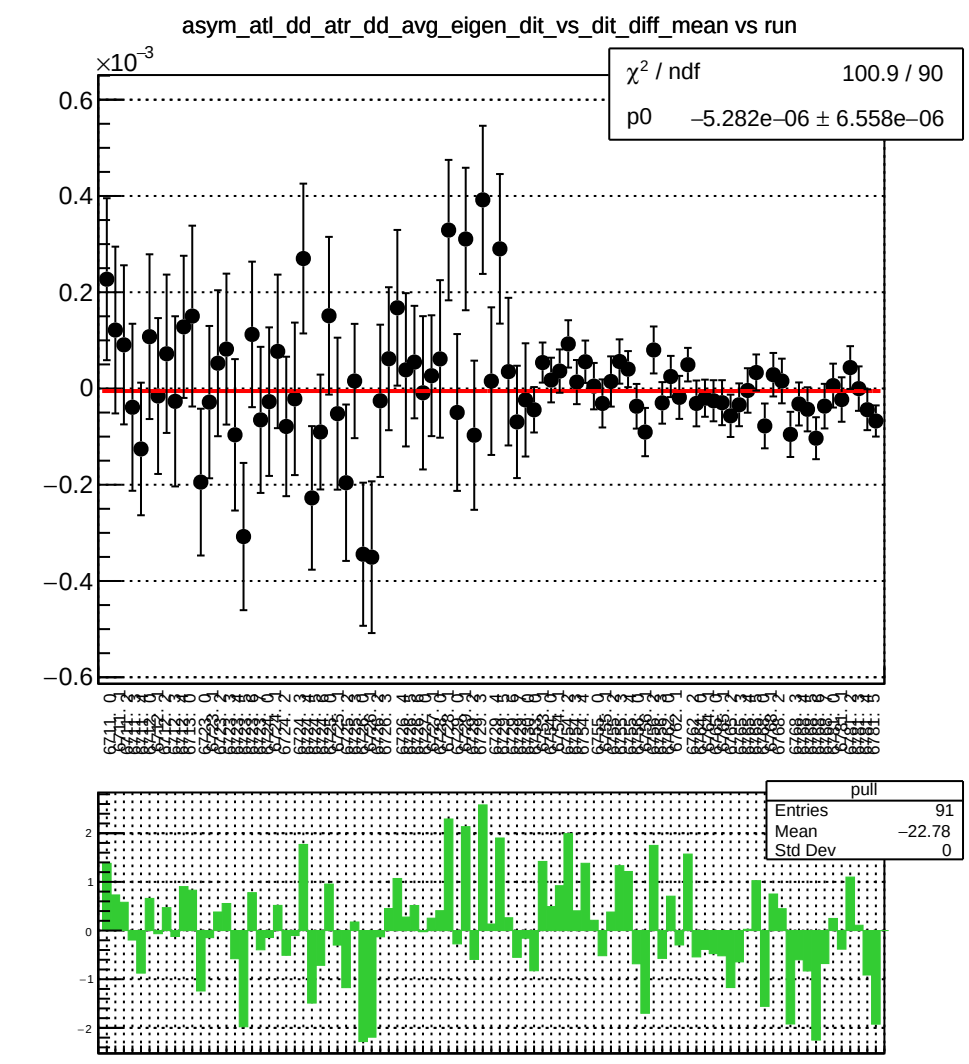

pull1D
Entries 91
Mean 0.02198
Std Dev 0.9665

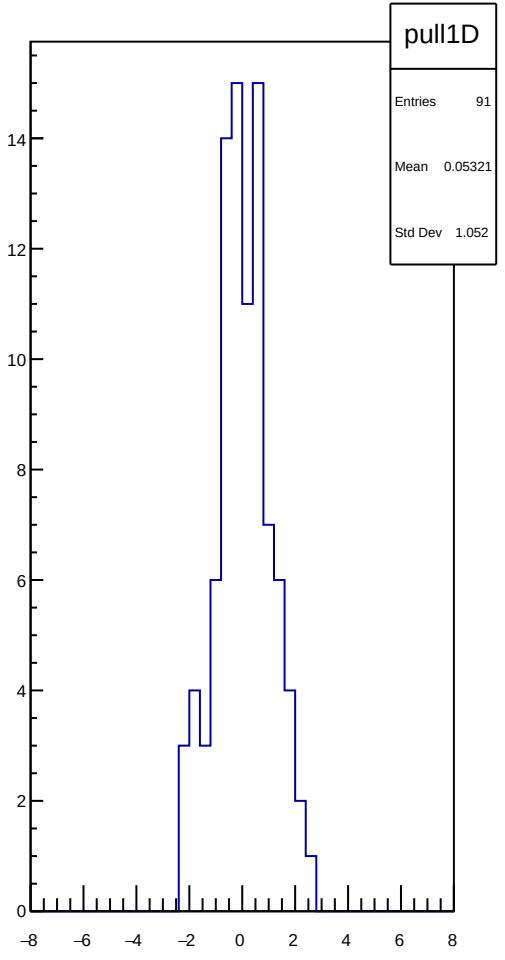

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.509e+04 / 90
p0 285.9 ± 0.2161
420
400
380
360
340
320
300
280
260
240
220

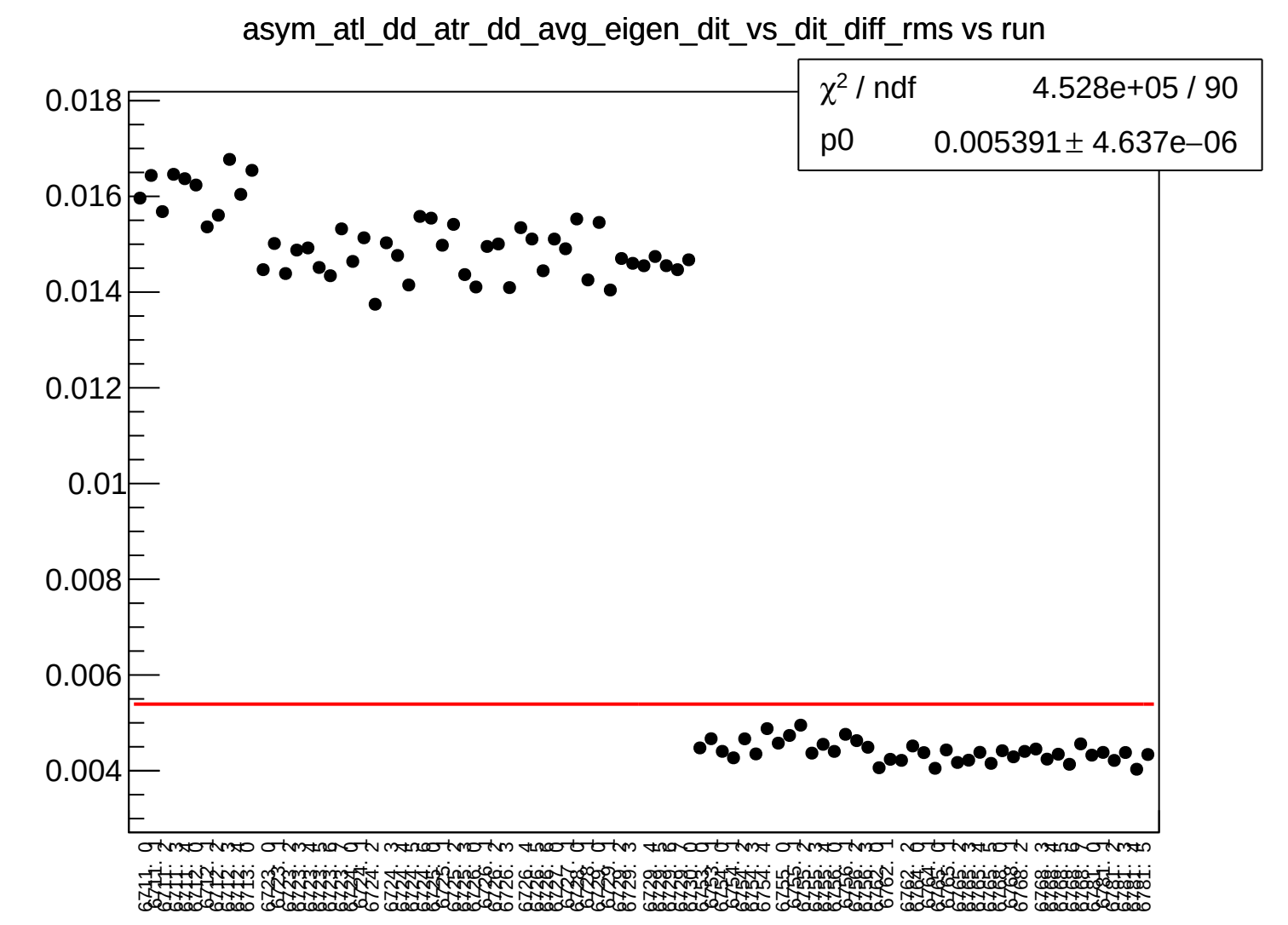

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.04 / 90
p0 0.007984 ± 0.3057
pull
Entries 91
Mean −45.59
Std Dev 0

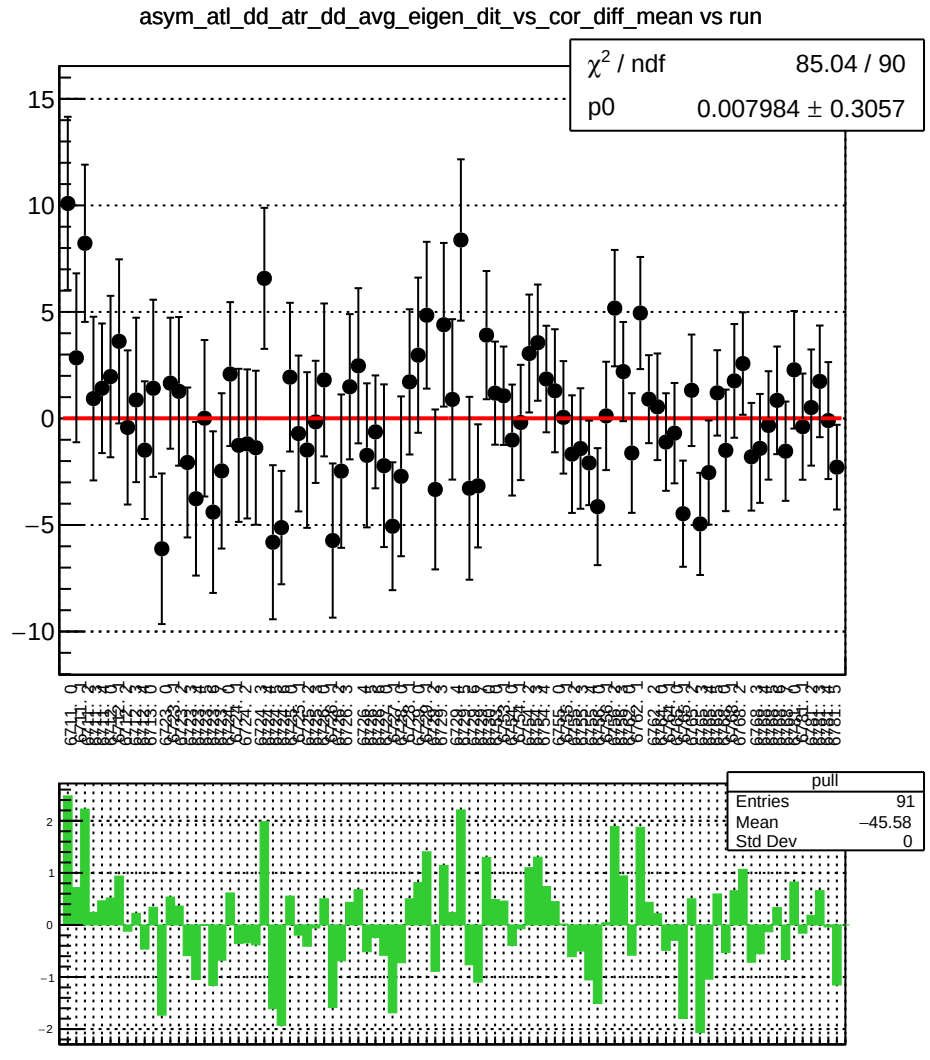

pull1D
Entries 91
Mean 0.02198
Std Dev 0.9665

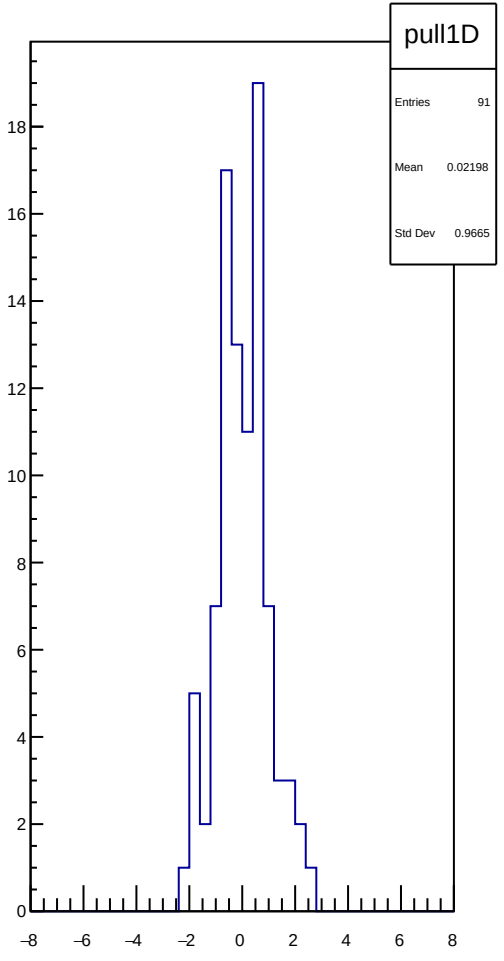

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.509e+04 / 90
p0 285.9 ± 0.2161
420
400
380
360
340
320
300
280
260
240
220

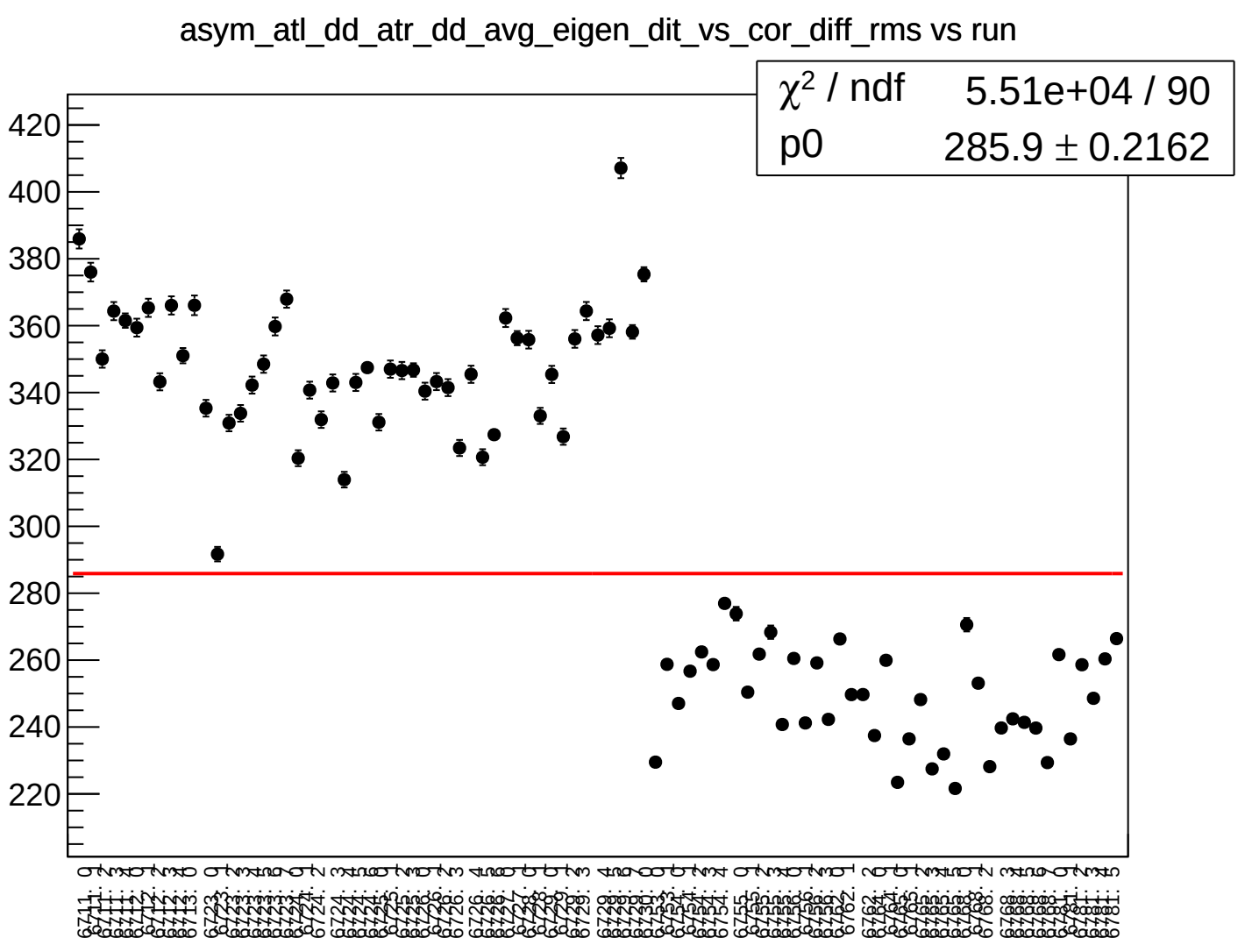

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.9 / 90
p0 −5.282e−06 ± 6.558e−06
pull
Entries 91
Mean −22.78
Std Dev 0

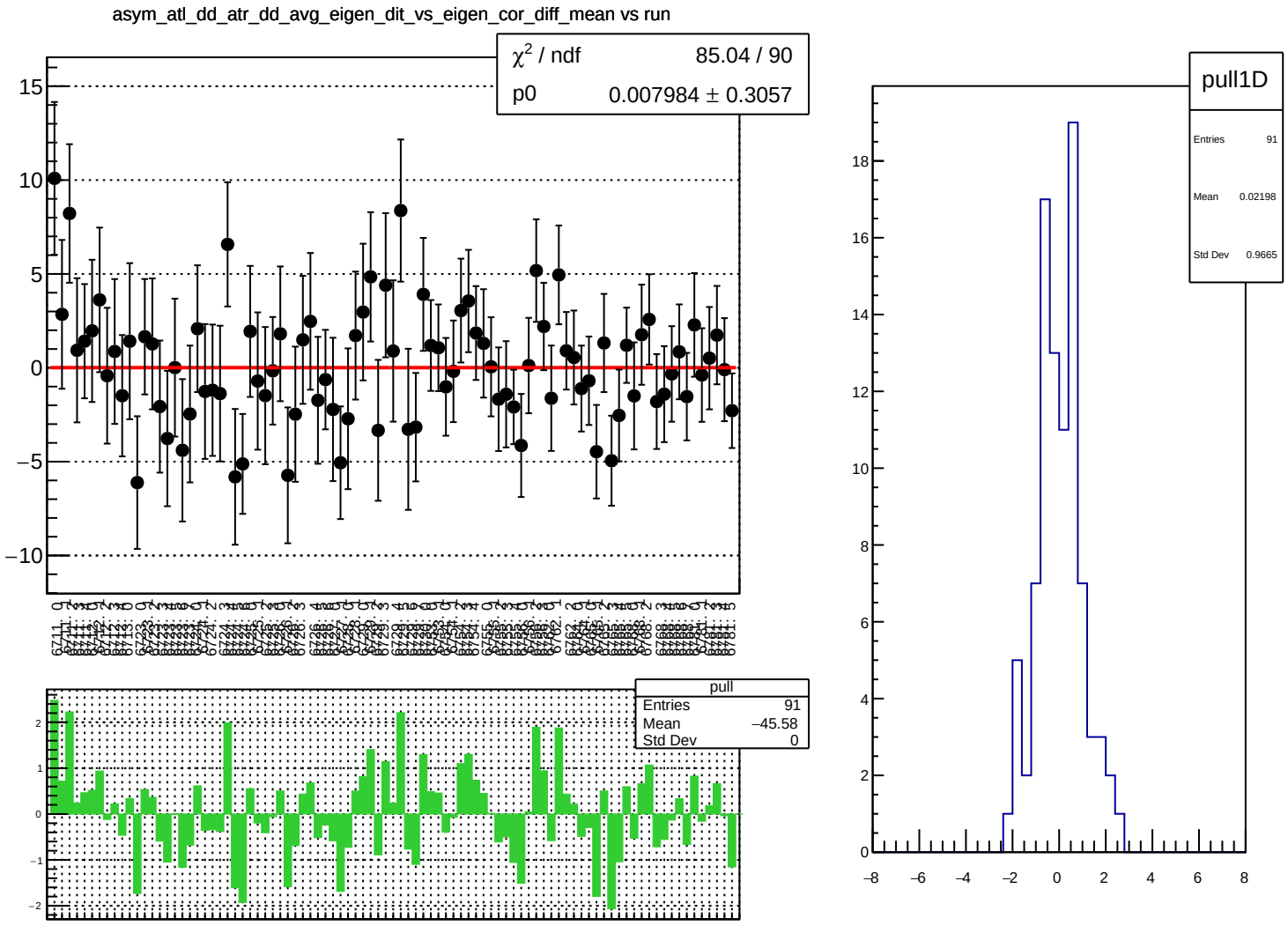

pull1D
Entries 91
Mean 0.05321
Std Dev 1.052

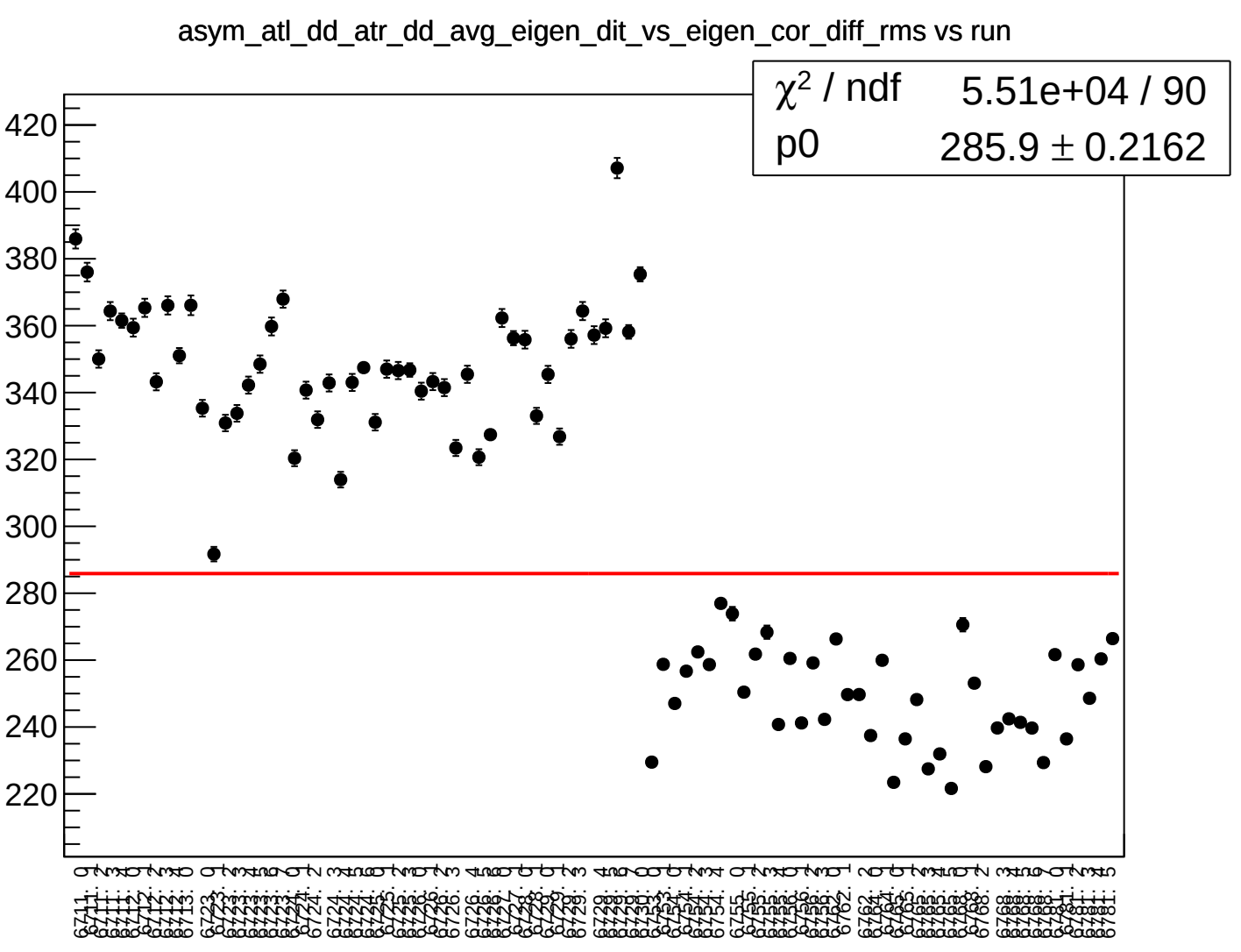

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.528e+05 / 90
p0 0.005391 ± 4.637e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

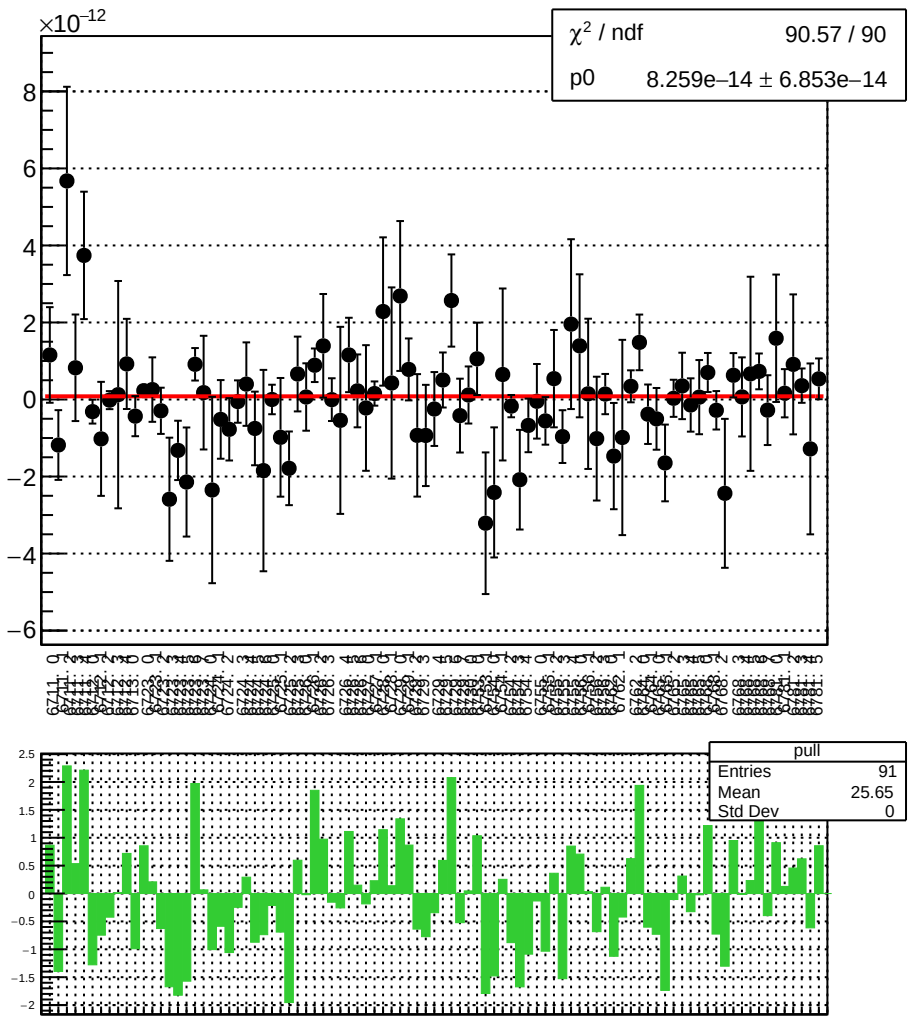

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.04 / 90
p0 0.007984 ± 0.3057
pull
Entries 91
Mean −45.58
Std Dev 0

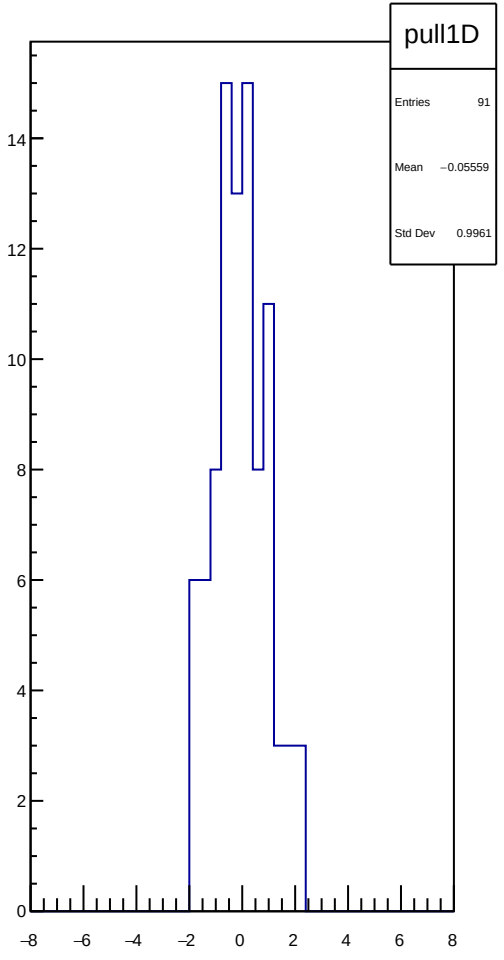

pull1D
Entries 91
Mean 0.02198
Std Dev 0.9665

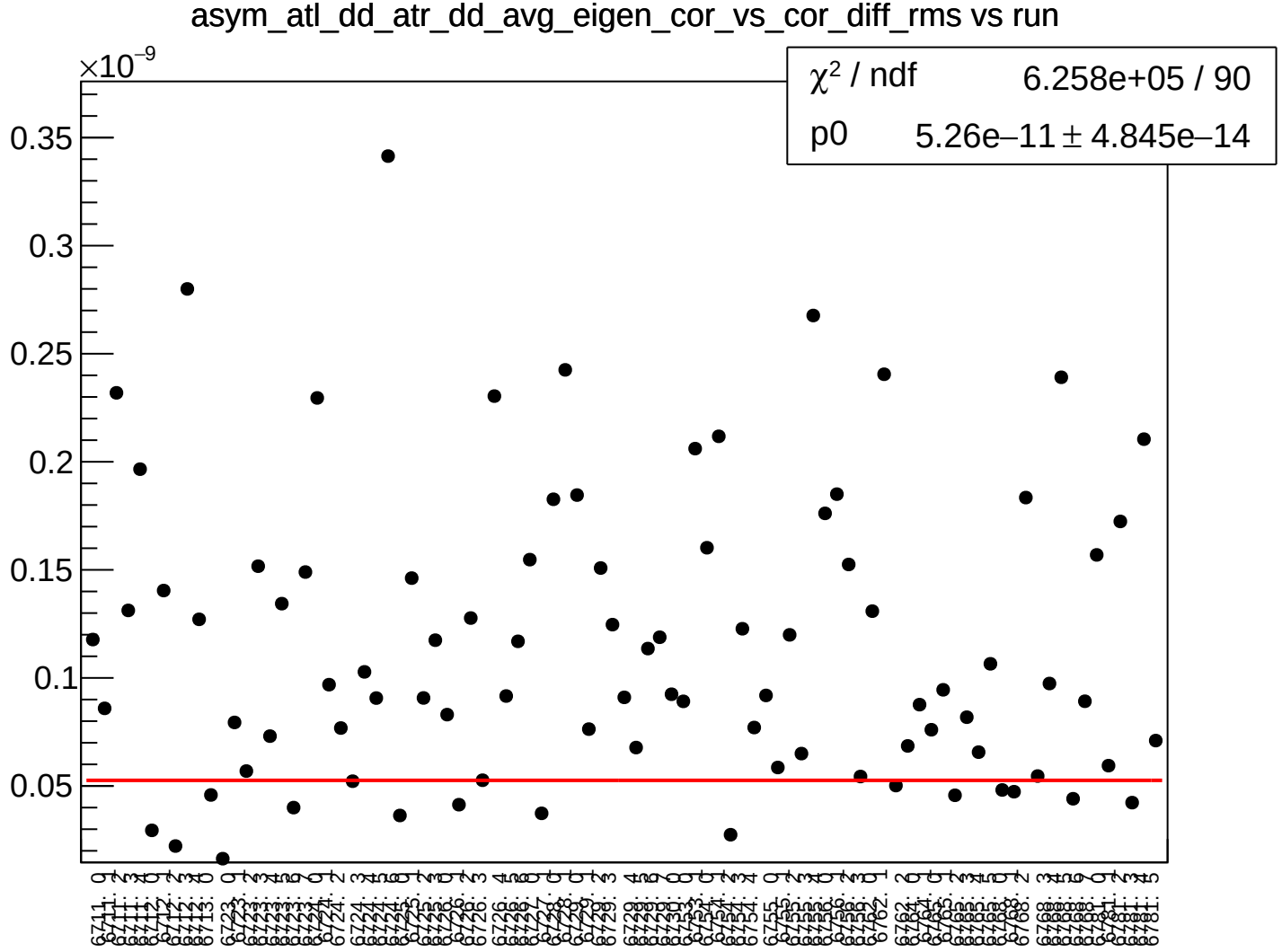

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.51e+04 / 90
p0 285.9 ± 0.2162
420
400
380
360
340
320
300
280
260
240
220

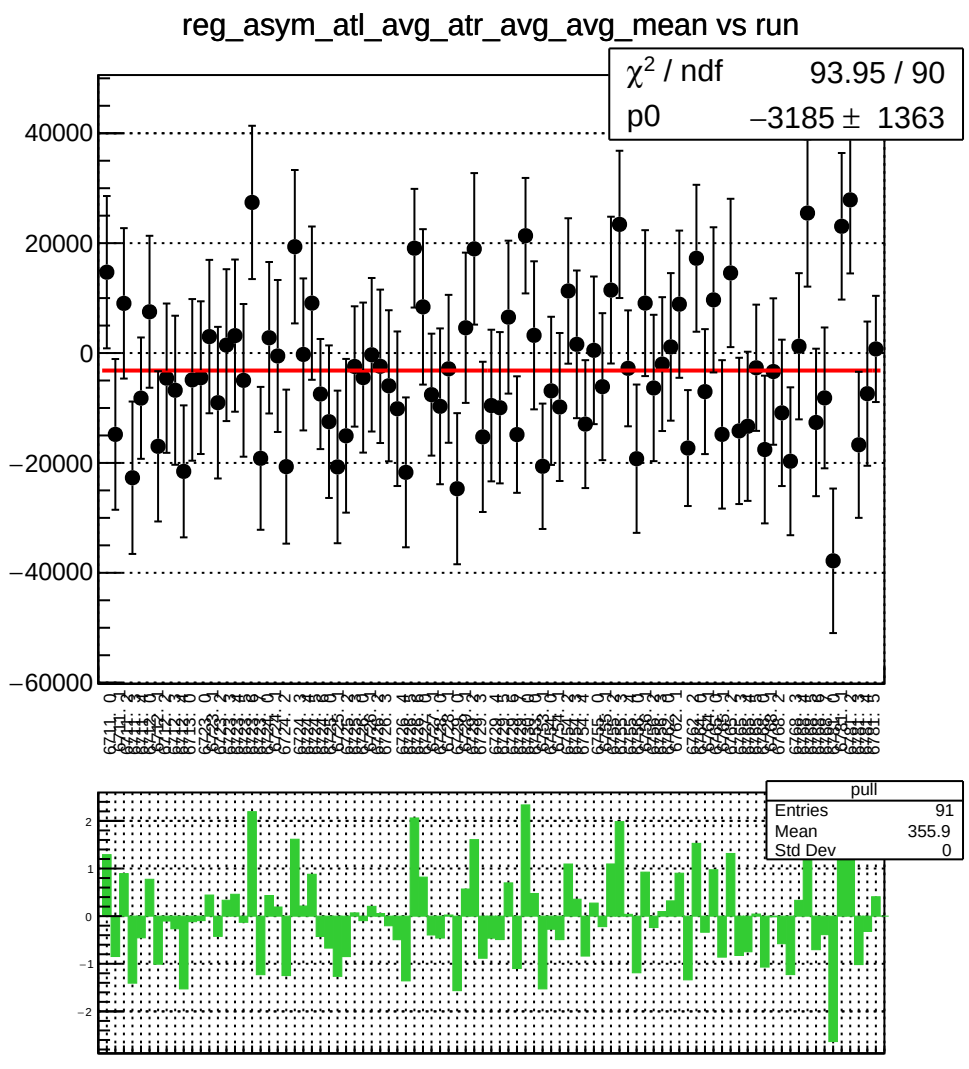

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.04 / 90
p0 0.007984 ± 0.3057
pull
Entries 91
Mean −45.58
Std Dev 0
pull1D
Entries 91
Mean 0.02198
Std Dev 0.9665

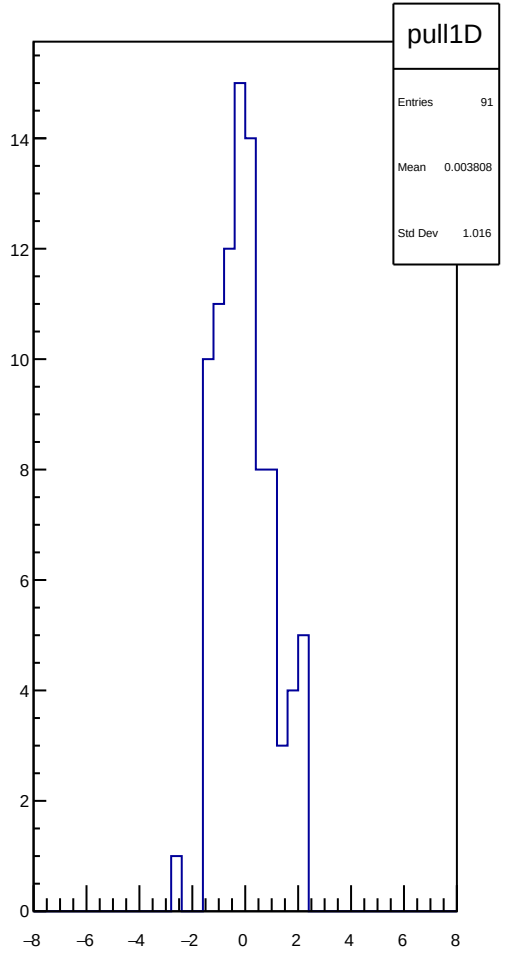

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.51e+04 / 90
p0 285.9 ± 0.2162
420
400
380
360
340
320
300
280
260
240
220

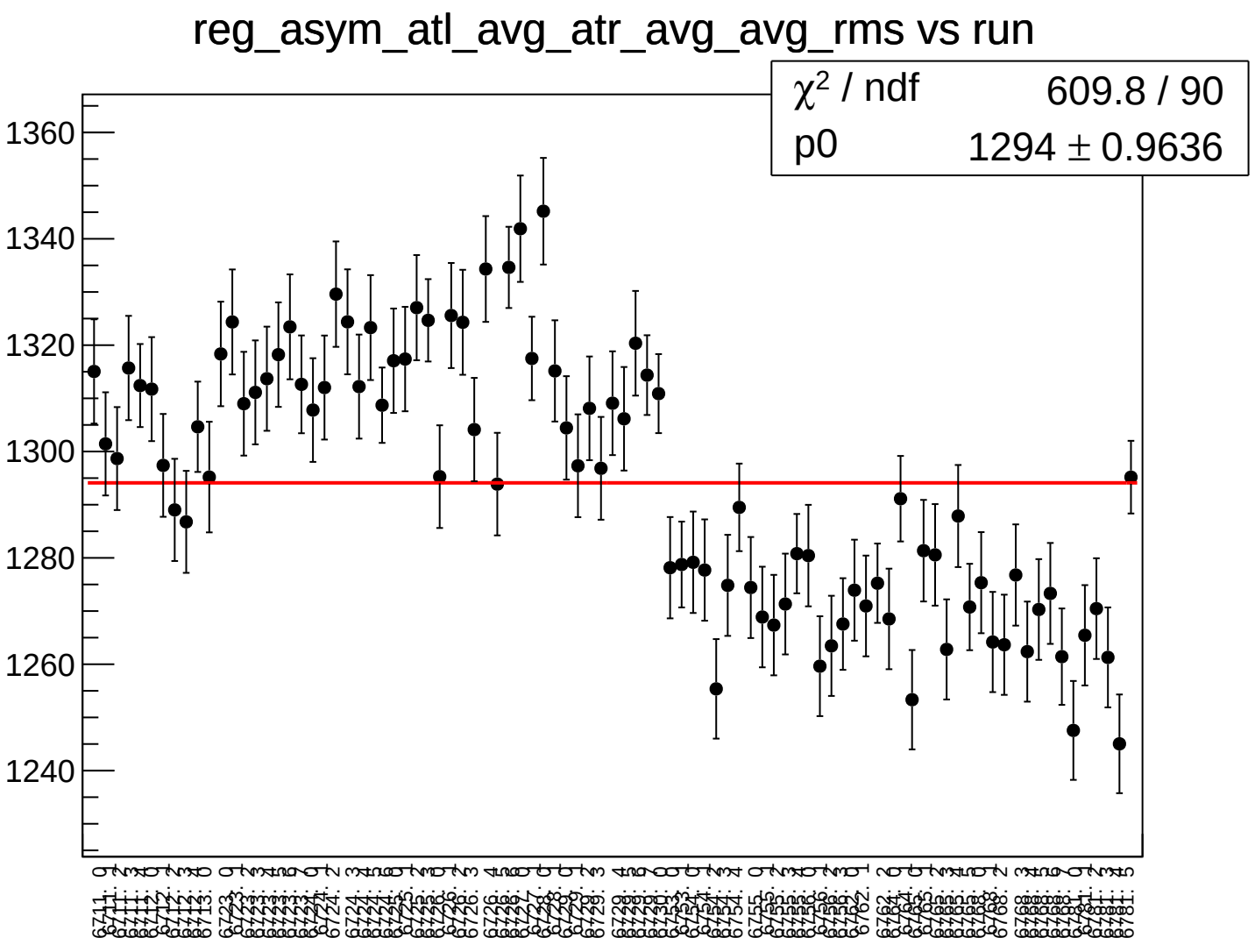

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.57 / 90
p0 8.259e−14 ± 6.853e−14
pull
Entries 91
Mean 25.65
Std Dev 0

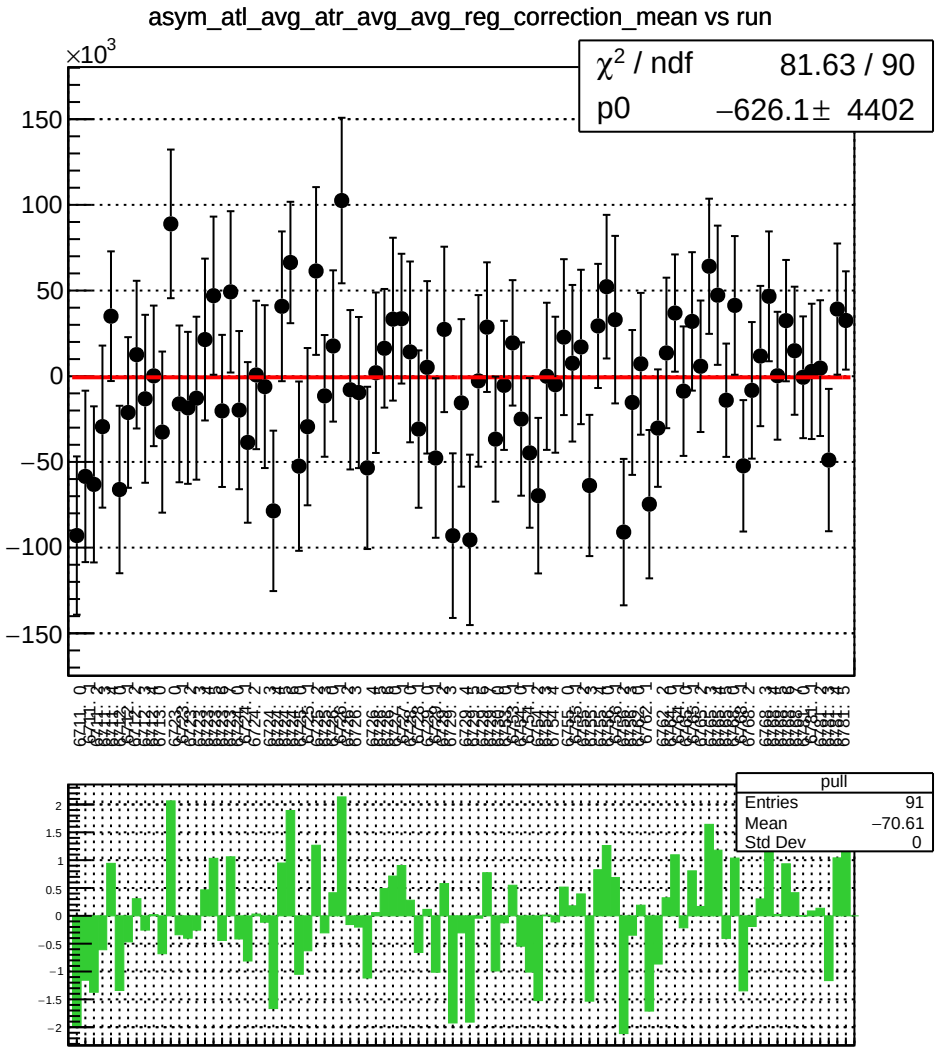

pull1D
Entries 91
Mean −0.05559
Std Dev 0.9961

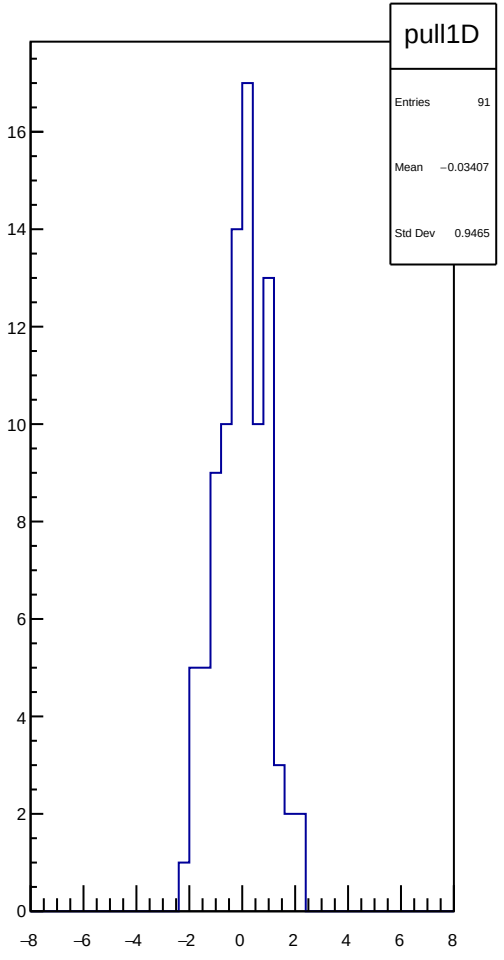

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.258e+05 / 90
p0 5.26e−11 ± 4.845e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

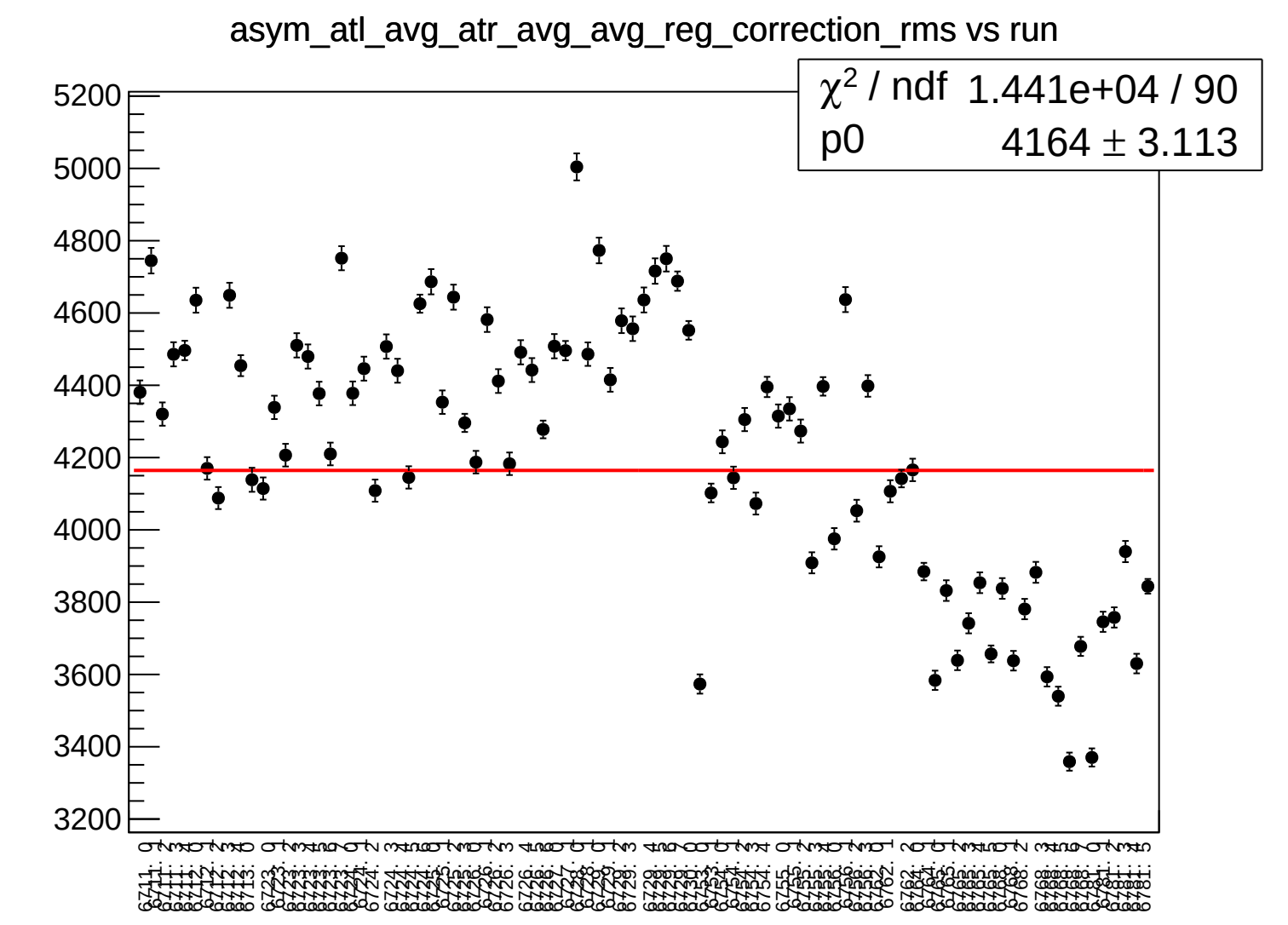

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 93.95 / 90
p0 −3185 ± 1363
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 355.9
Std Dev 0
2
1
0
−1
−2

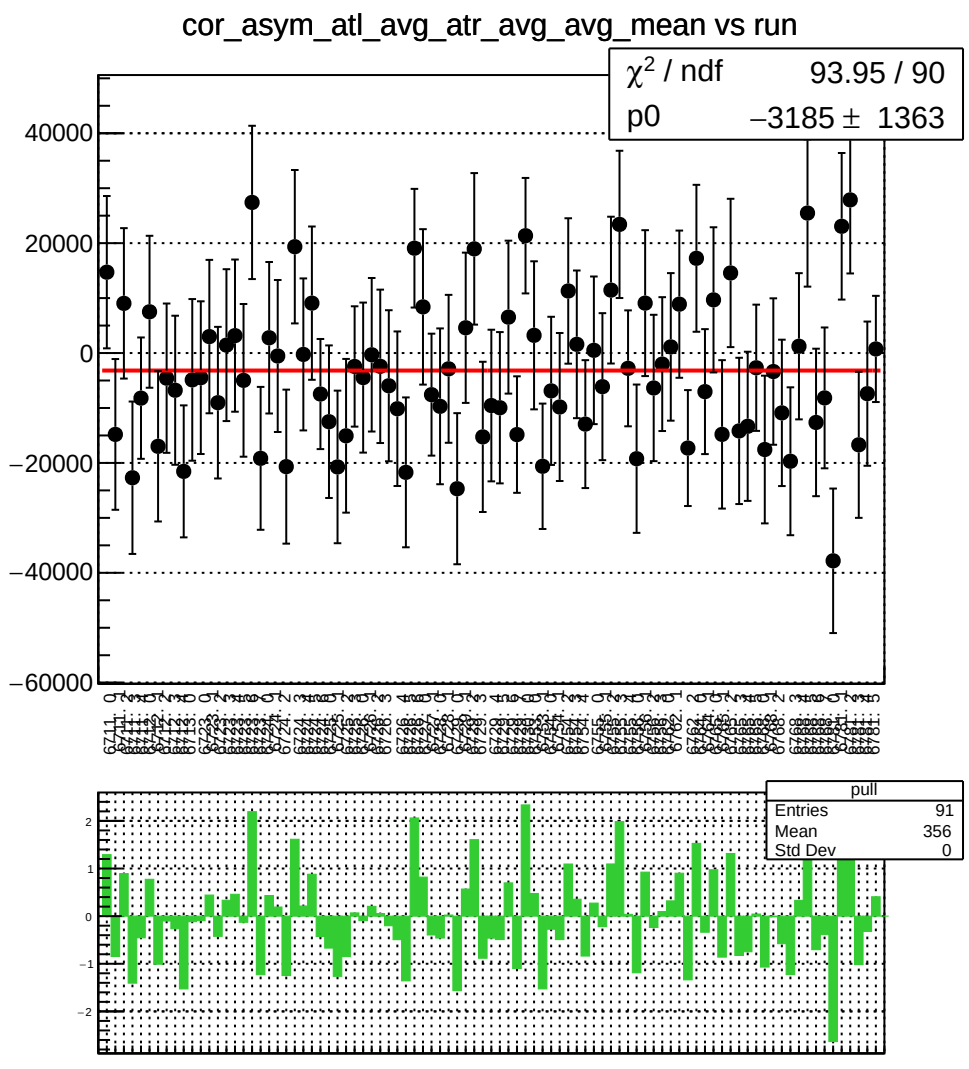

pull1D
Entries 91
Mean 0.003808
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

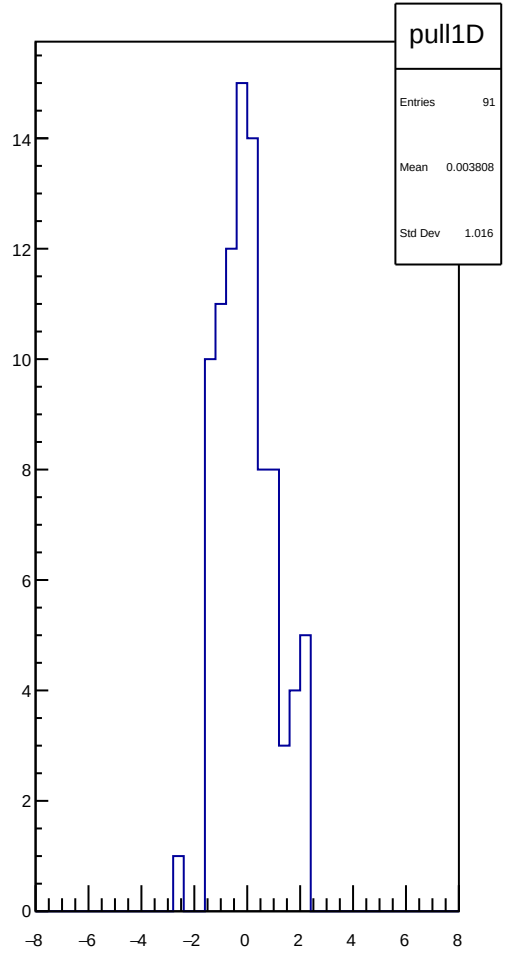

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 609.8 / 90
p0 1294 ± 0.9636
1360
1340
1320
1300
1280
1260
1240

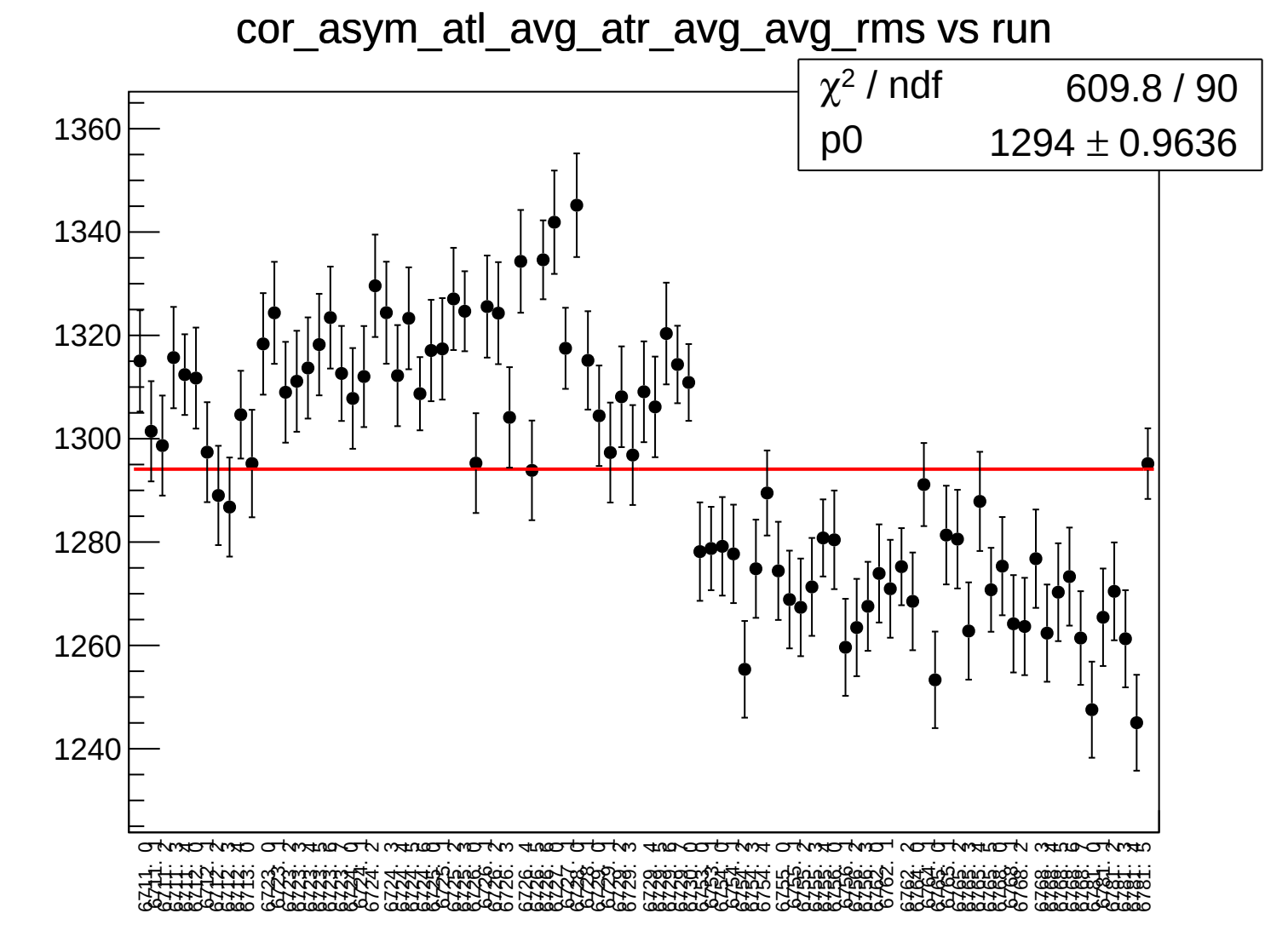

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 81.63 / 90
p0 −626.1± 4402
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −70.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

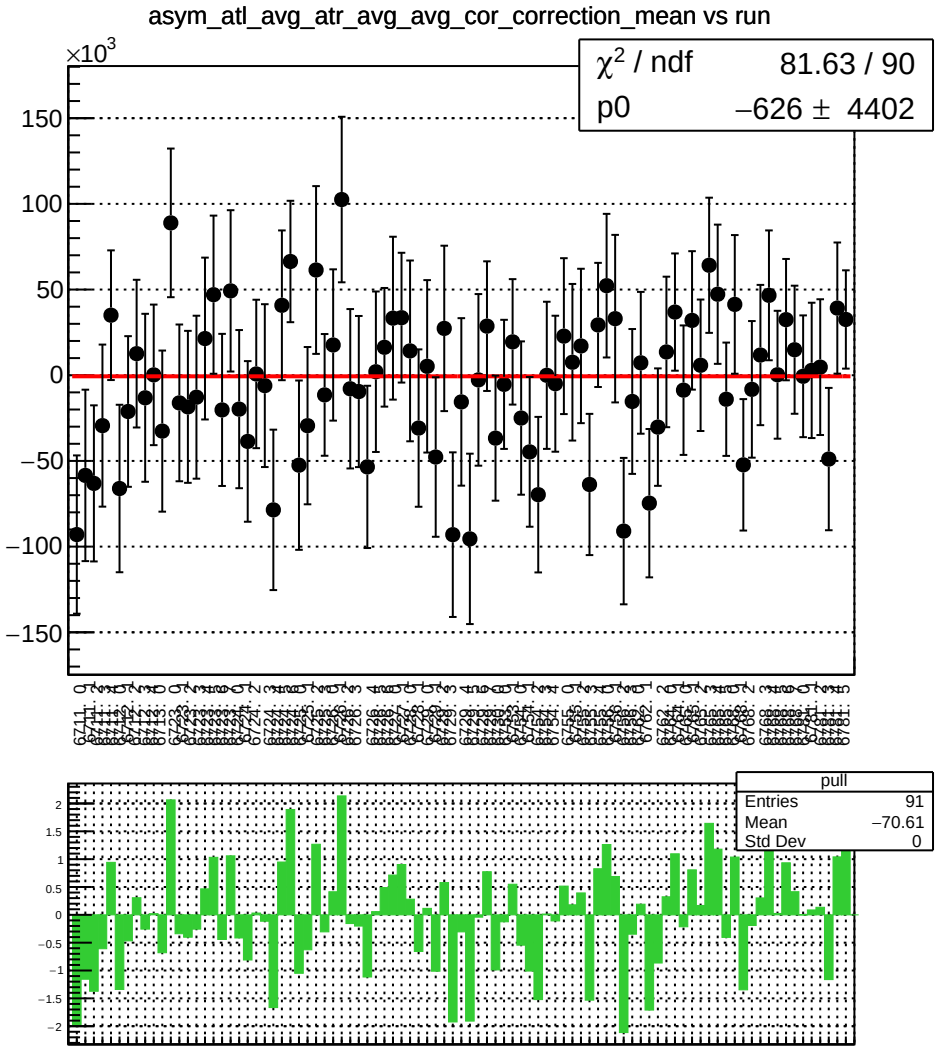

pull1D
Entries 91
Mean −0.03407
Std Dev 0.9465
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

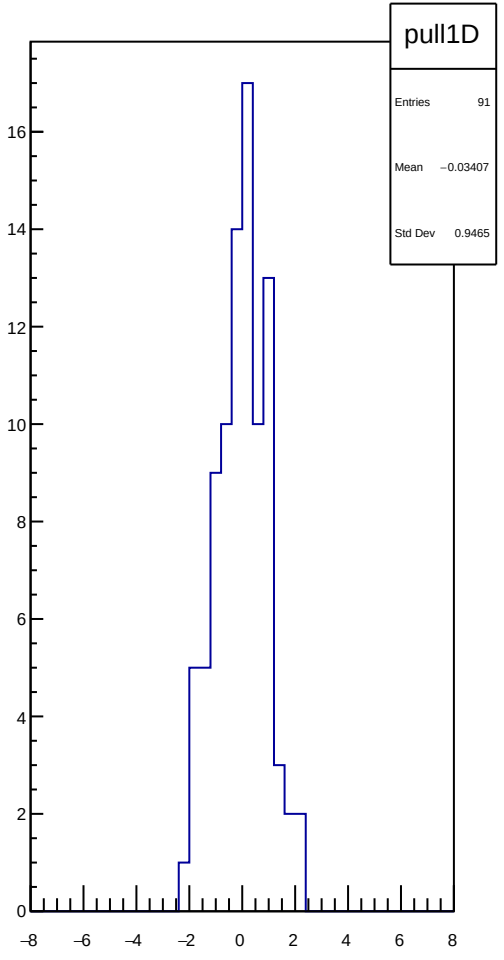

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.441e+04 / 90
p0 4164 ± 3.113
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

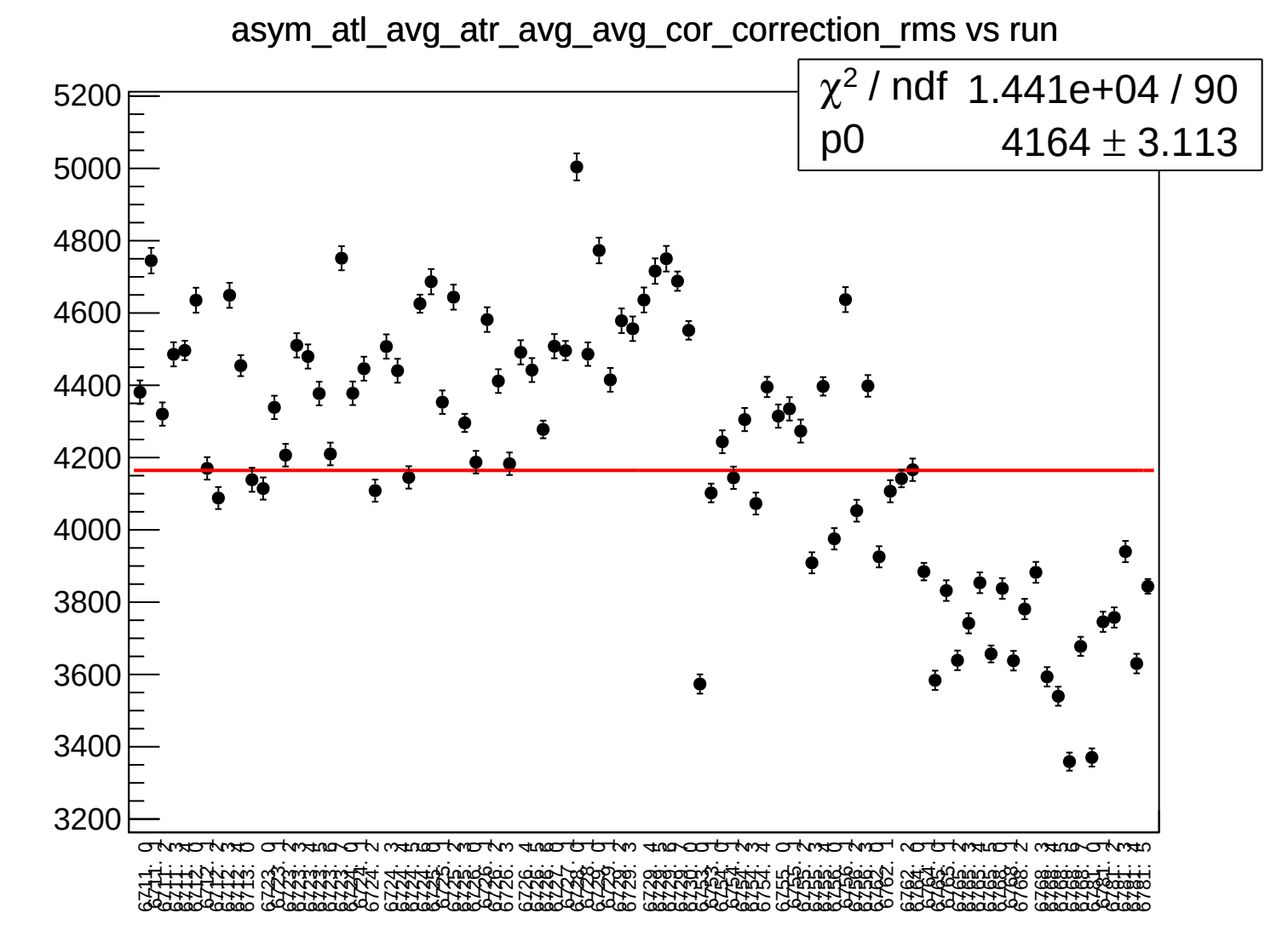

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 93.95 / 90
p0 −3185 ± 1363
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 356
Std Dev 0
2
1
0
−1
−2

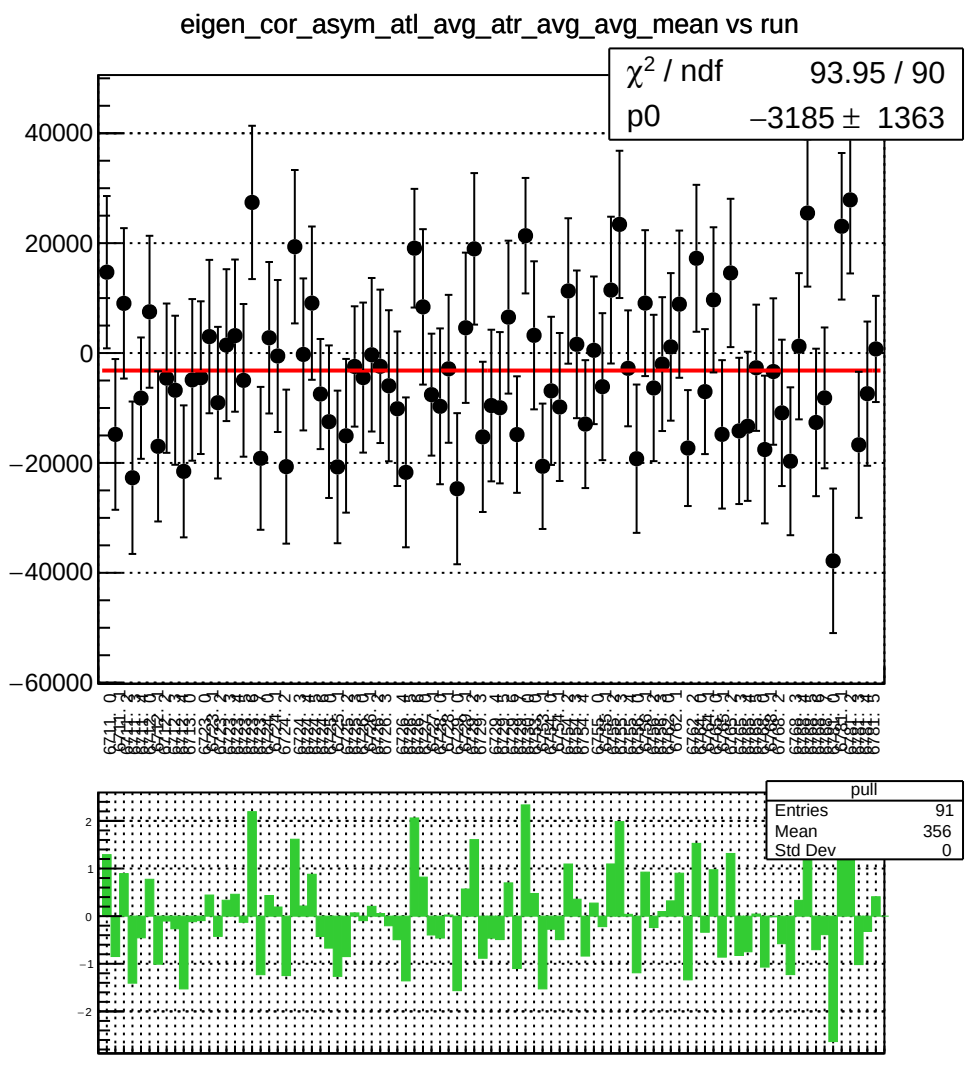

pull1D
Entries 91
Mean 0.003808
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

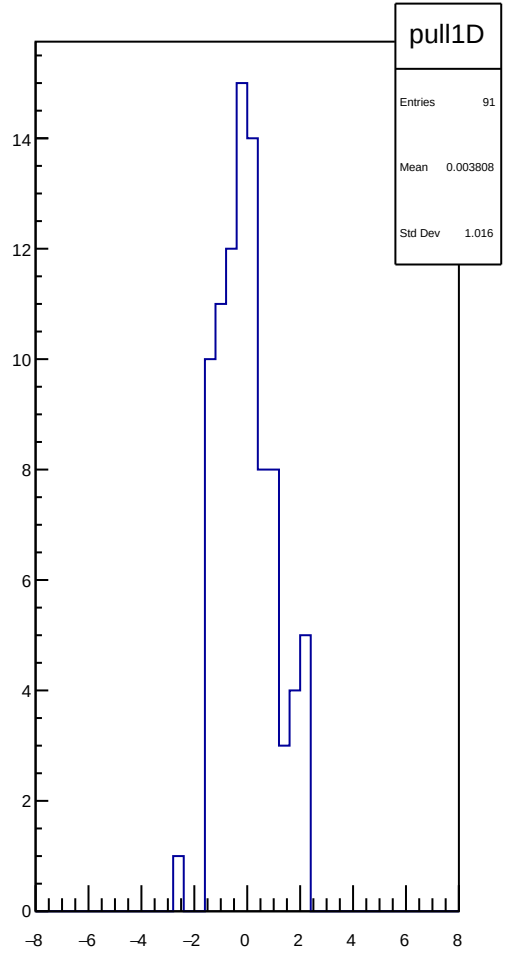

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 609.8 / 90
p0 1294 ± 0.9636
1360
1340
1320
1300
1280
1260
1240

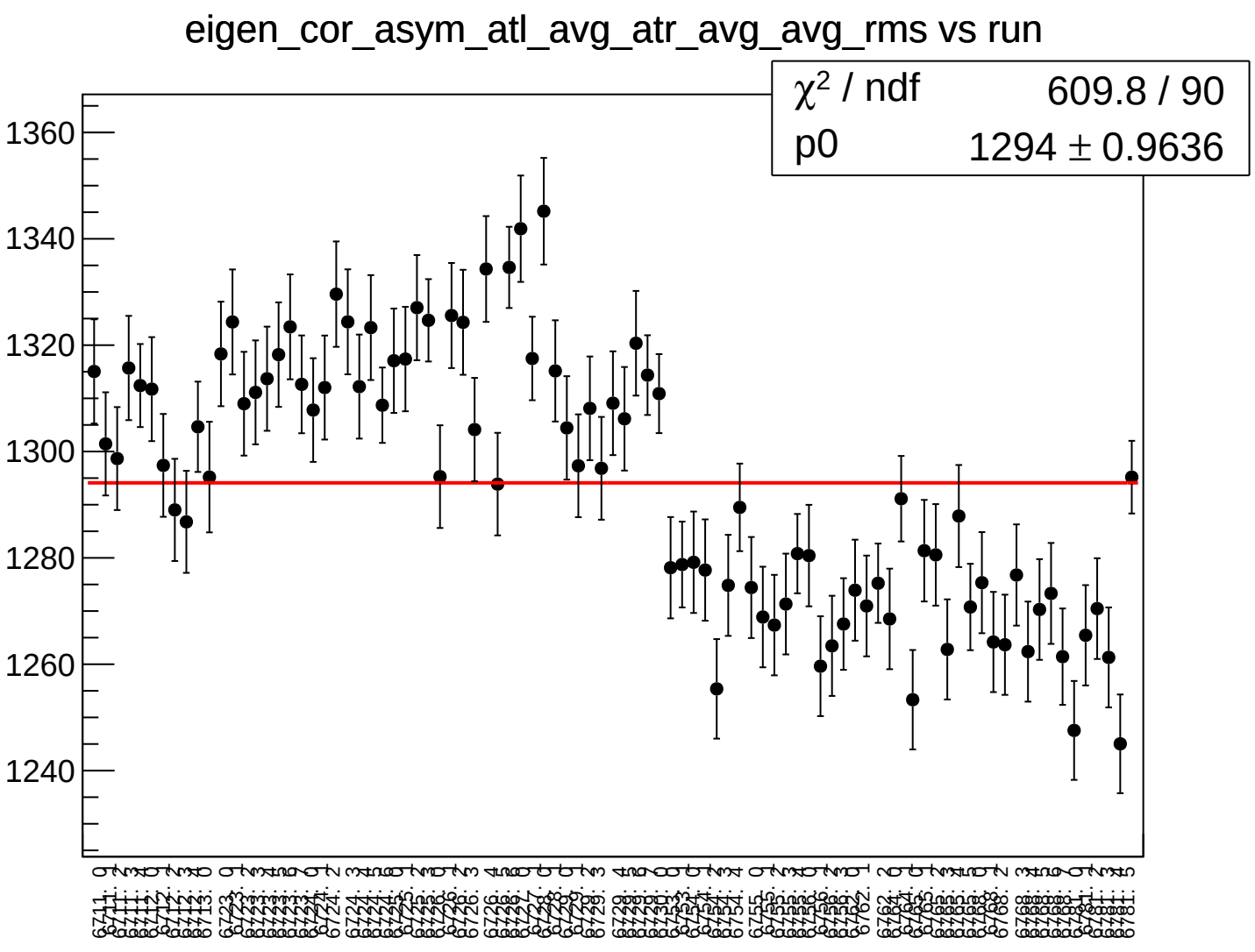

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 81.63 / 90
p0 −626 ± 4402
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −70.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

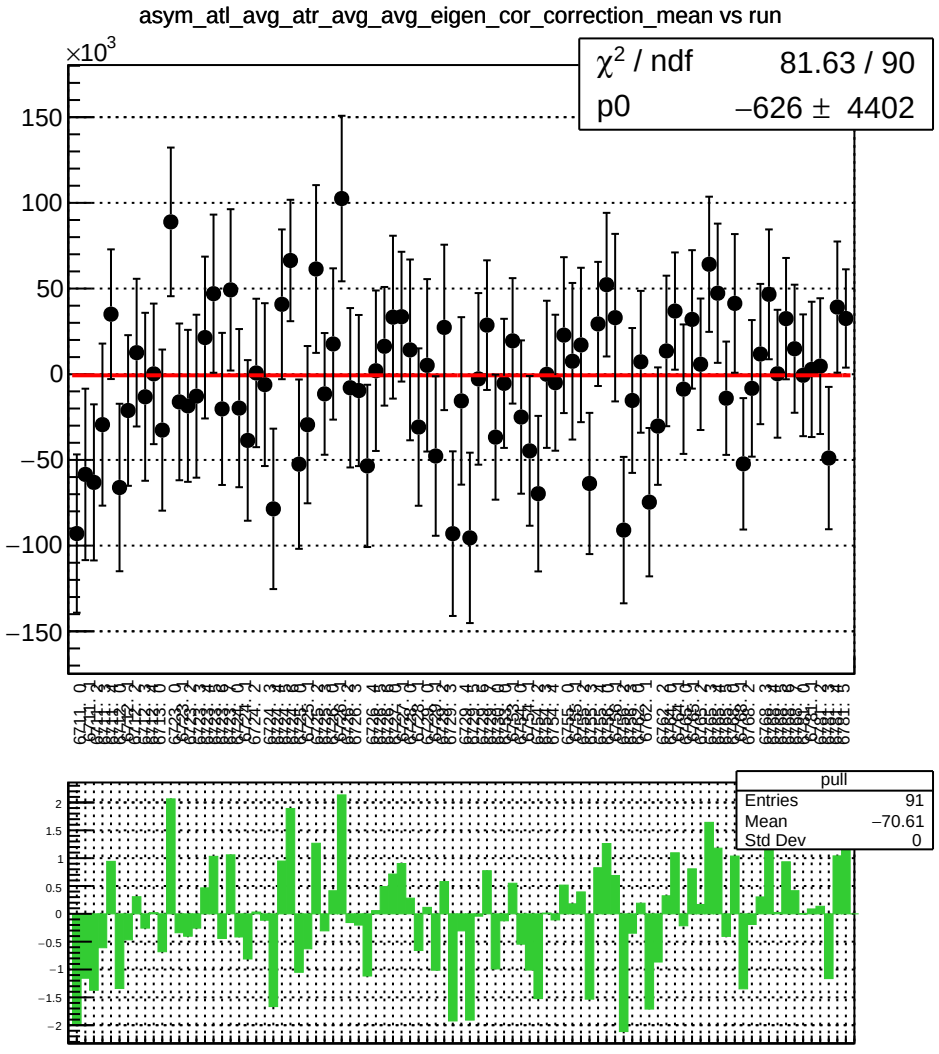

pull1D
Entries 91
Mean −0.03407
Std Dev 0.9465
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

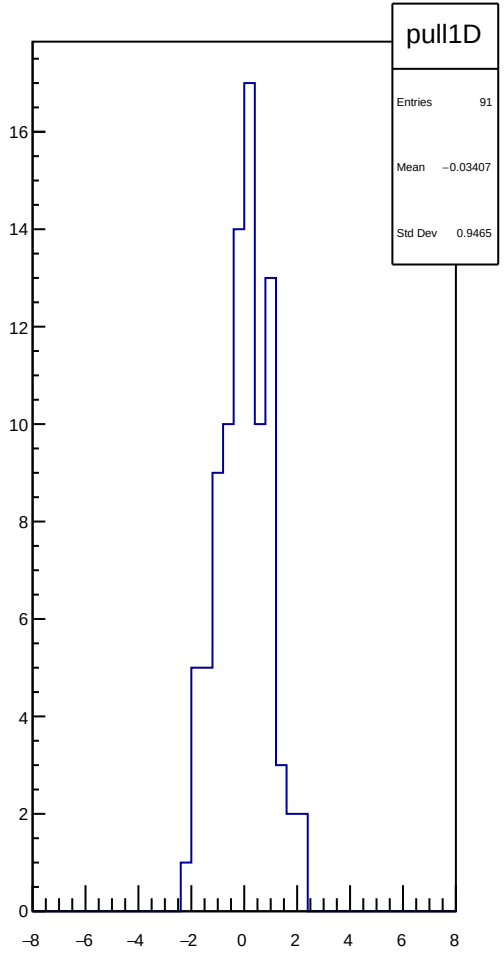

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.441e+04 / 90
p0 4164 ± 3.113
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

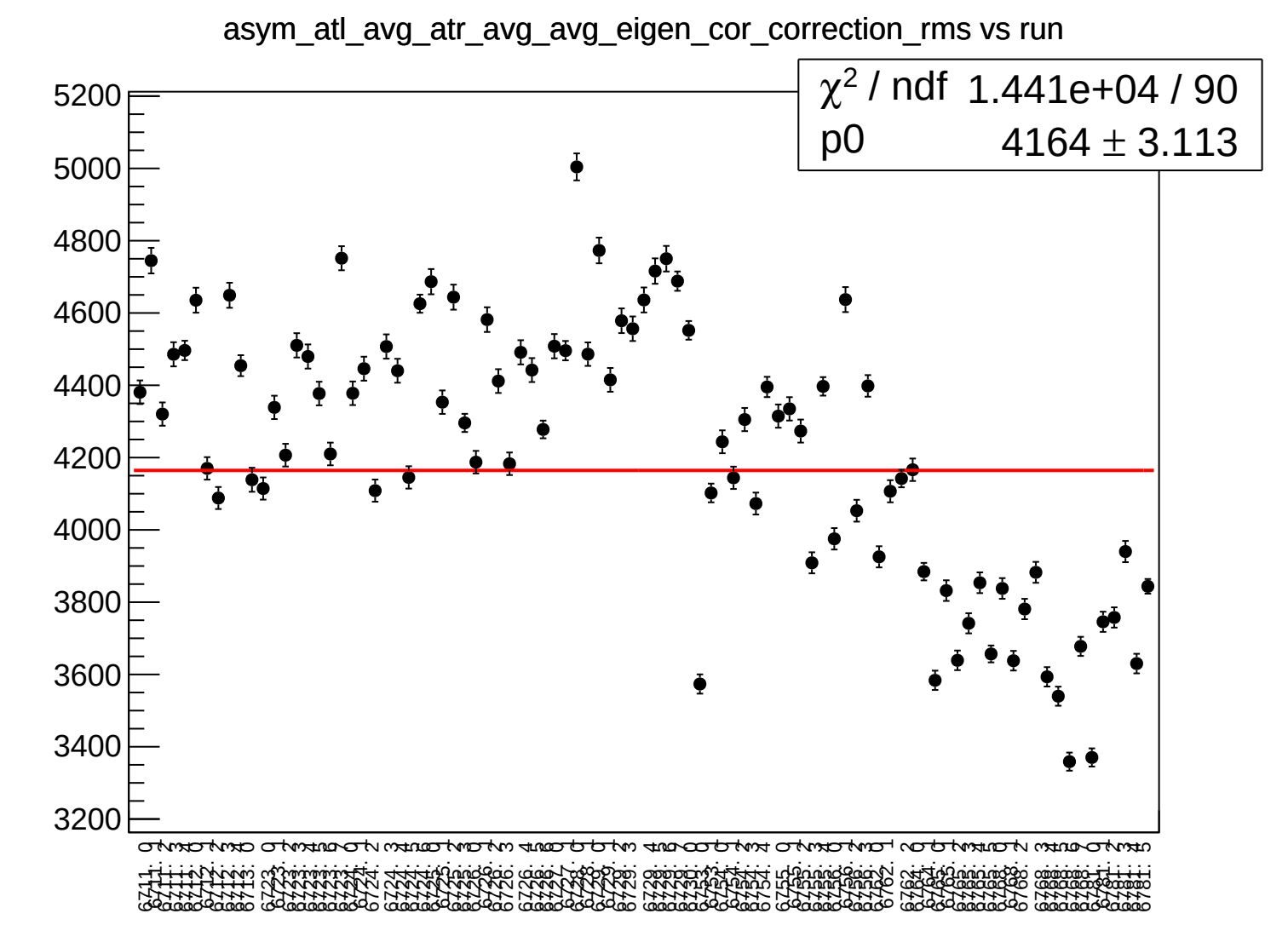

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 93.95 / 90
p0 −3185 ± 1363
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 356
Std Dev 0
2
1
0
−1
−2

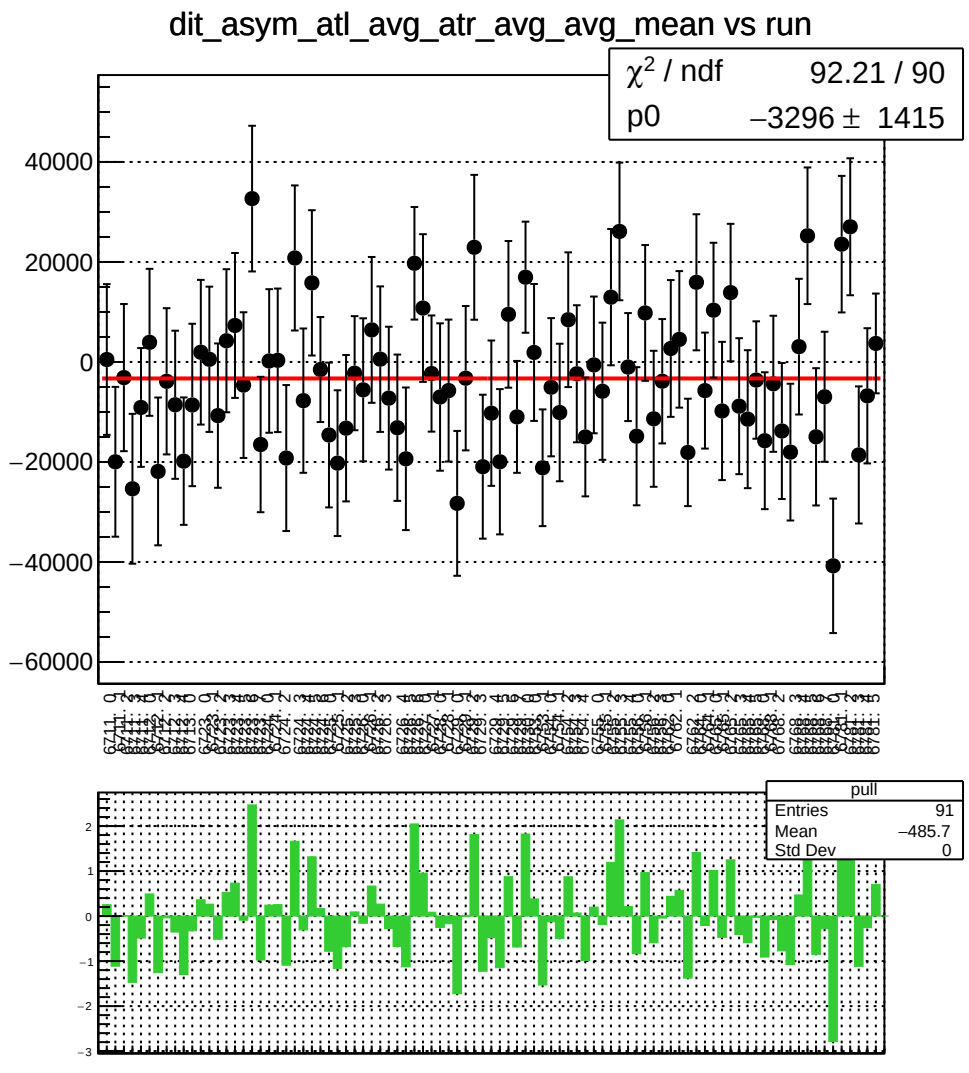

pull1D
Entries 91
Mean 0.003808
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

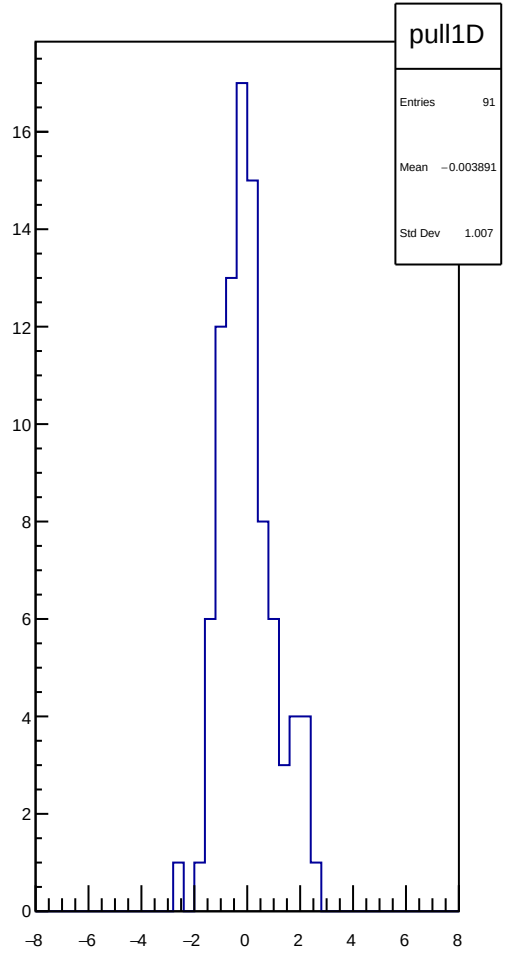

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 609.8 / 90
p0 1294 ± 0.9636
1360
1340
1320
1300
1280
1260
1240

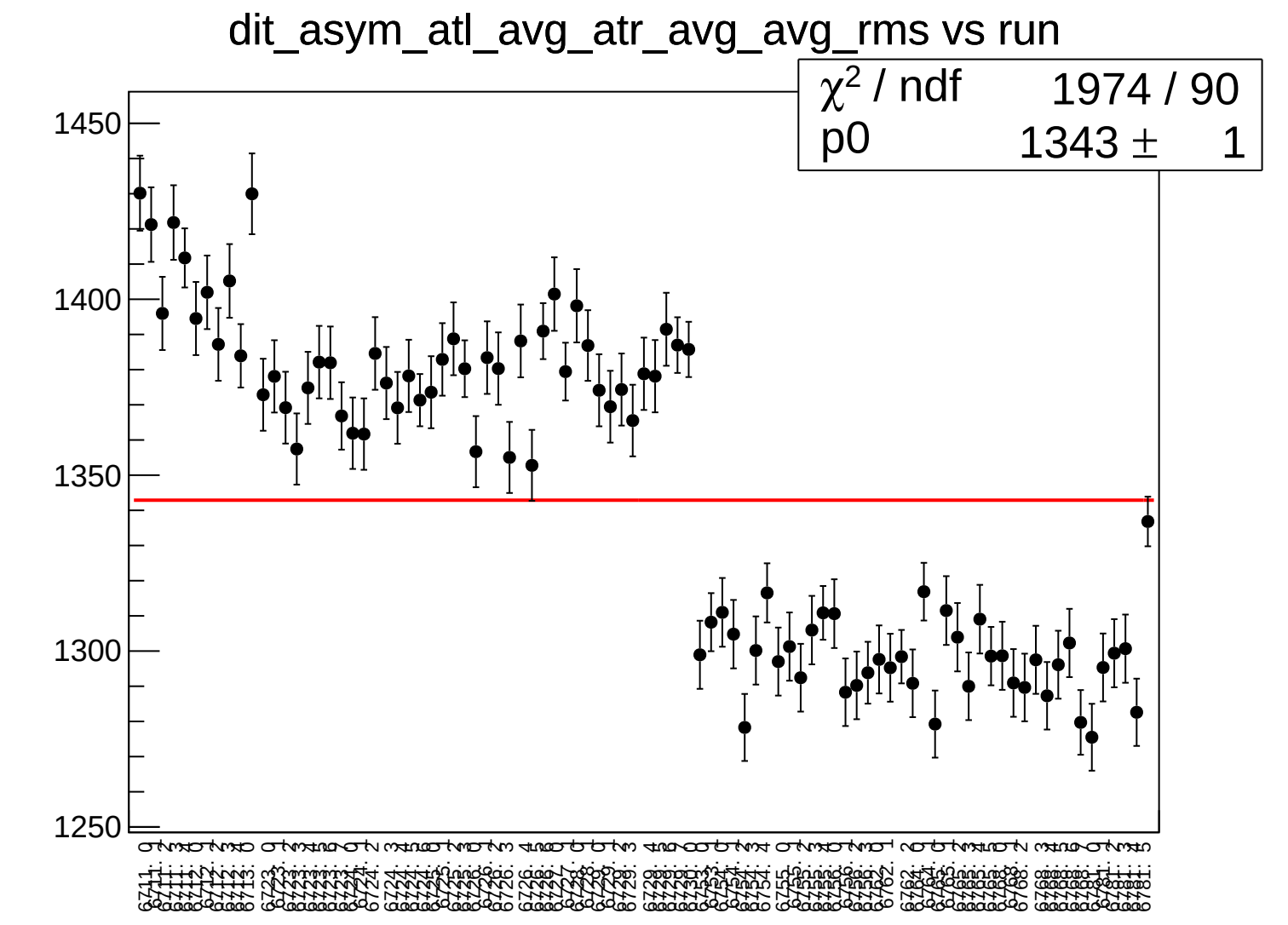

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.63 / 90
p0 −626 ± 4402
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −70.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

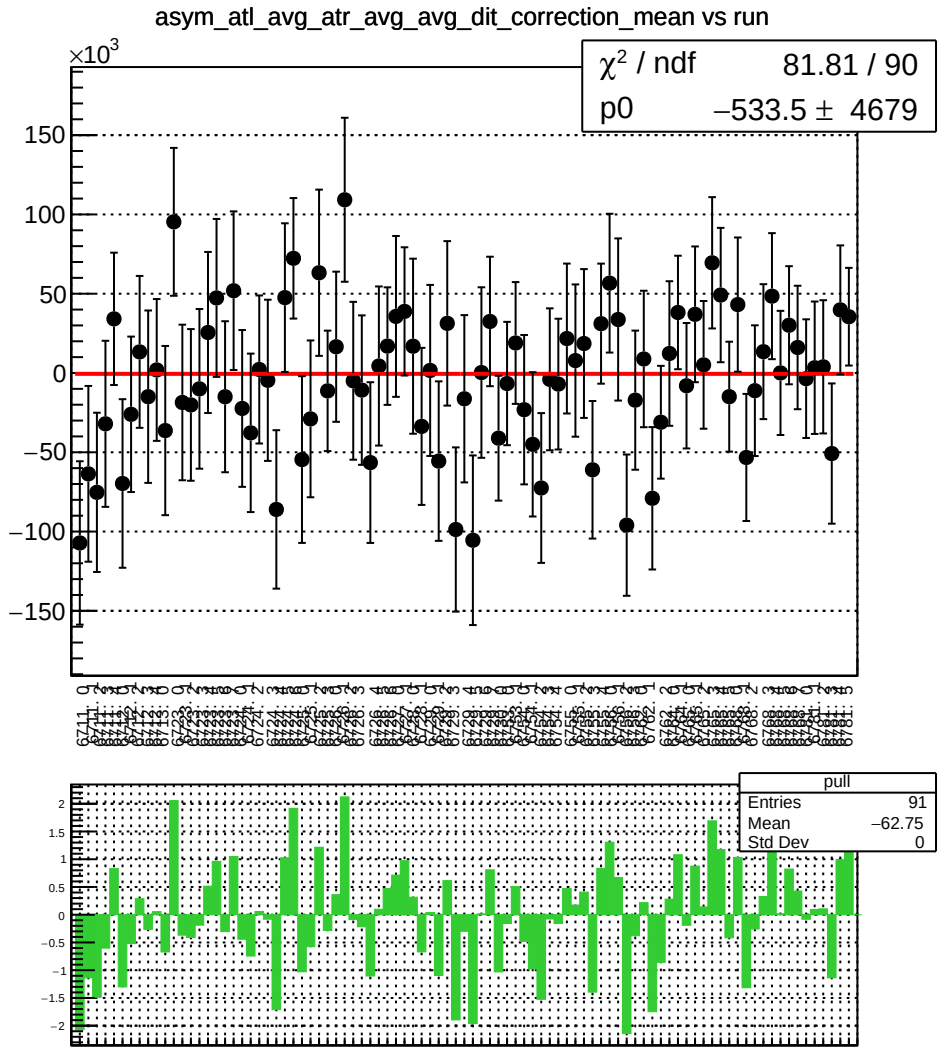

pull1D
Entries 91
Mean −0.03407
Std Dev 0.9465
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

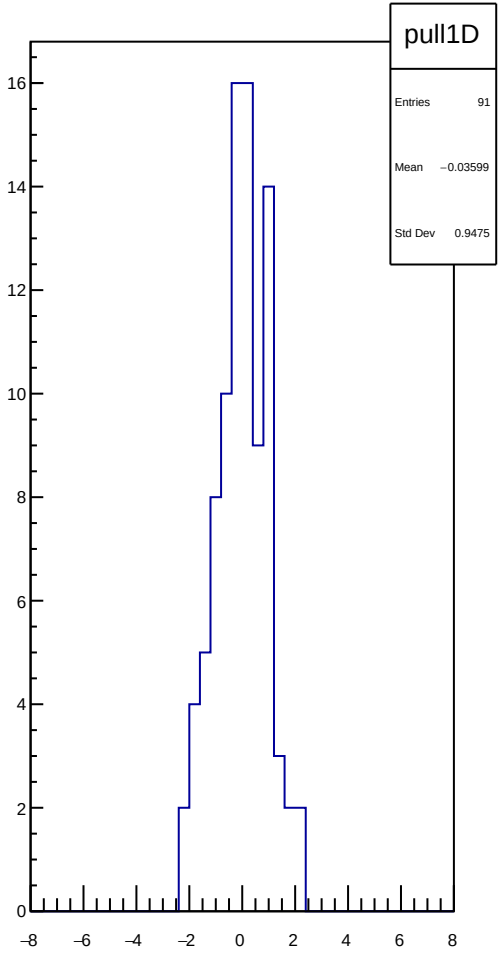

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.441e+04 / 90
p0 4164 ± 3.113
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

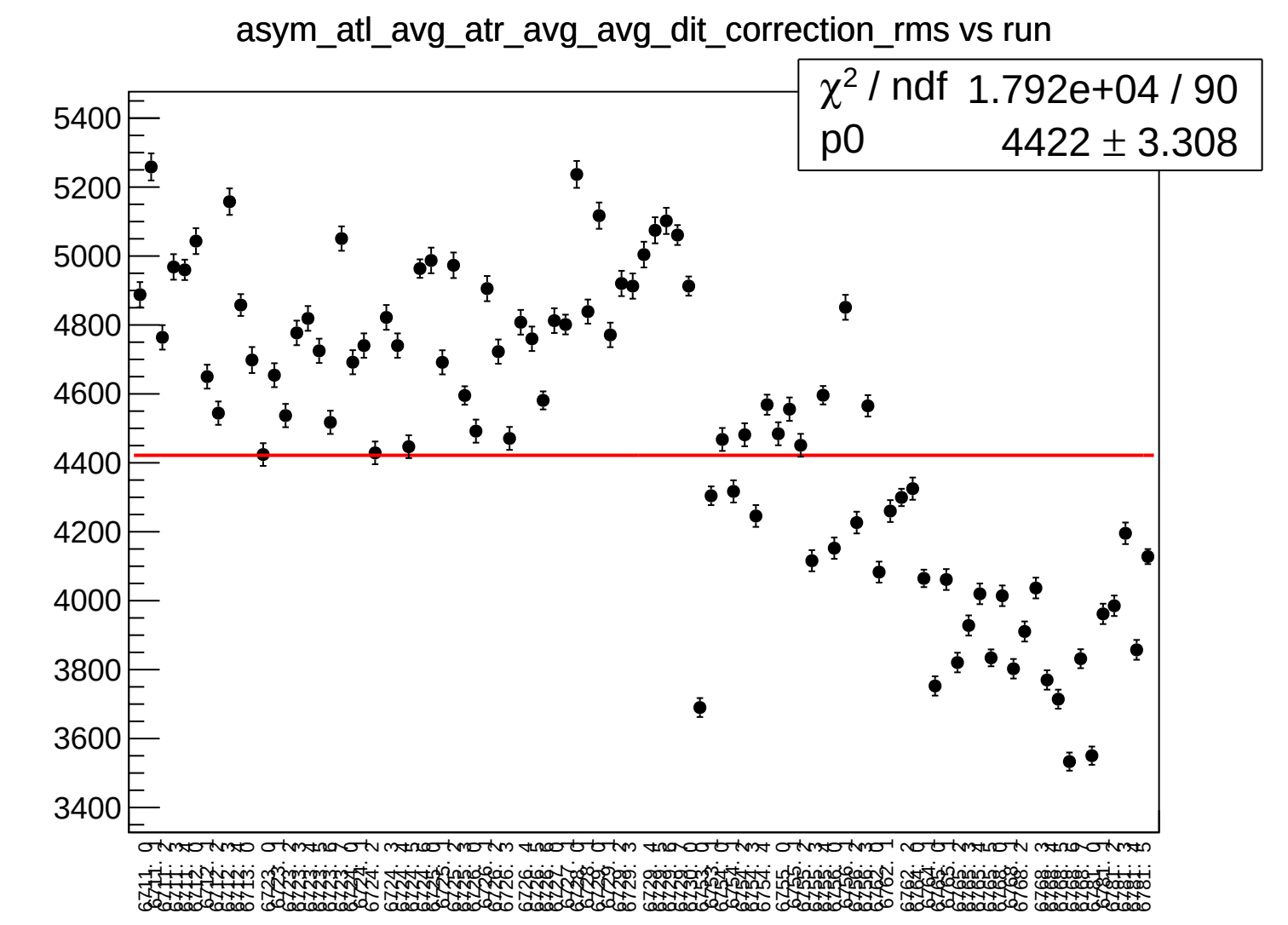

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 92.21 / 90
p0 −3296 ± 1415
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −485.7
Std Dev 0
2
1
0
−1
−2
−3

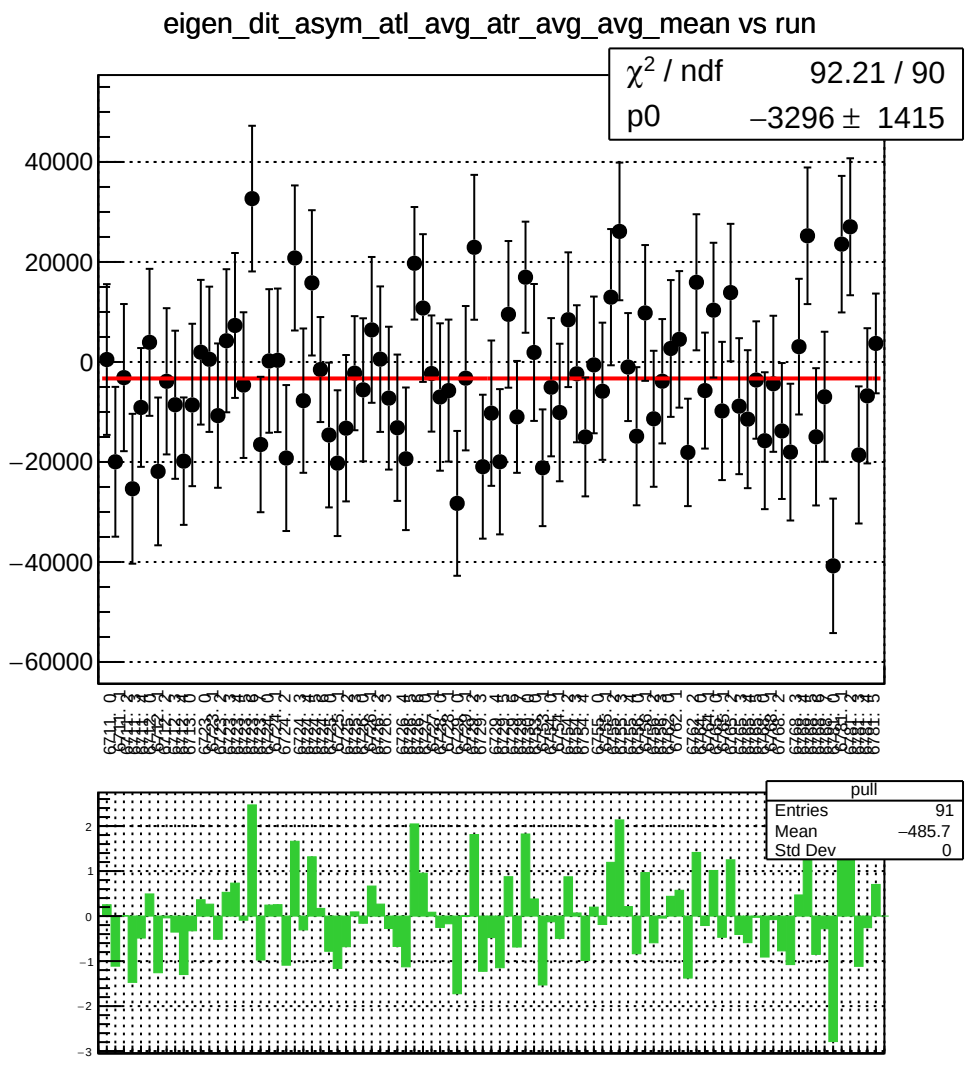

pull1D
Entries 91
Mean −0.003891
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

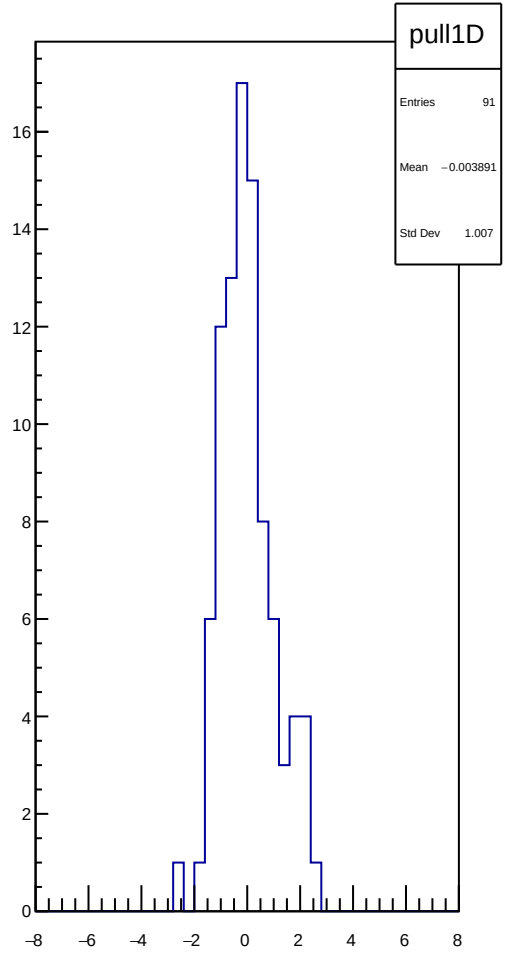

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1974 / 90
p0 1343 ± 1
1450
1400
1350
1300
1250

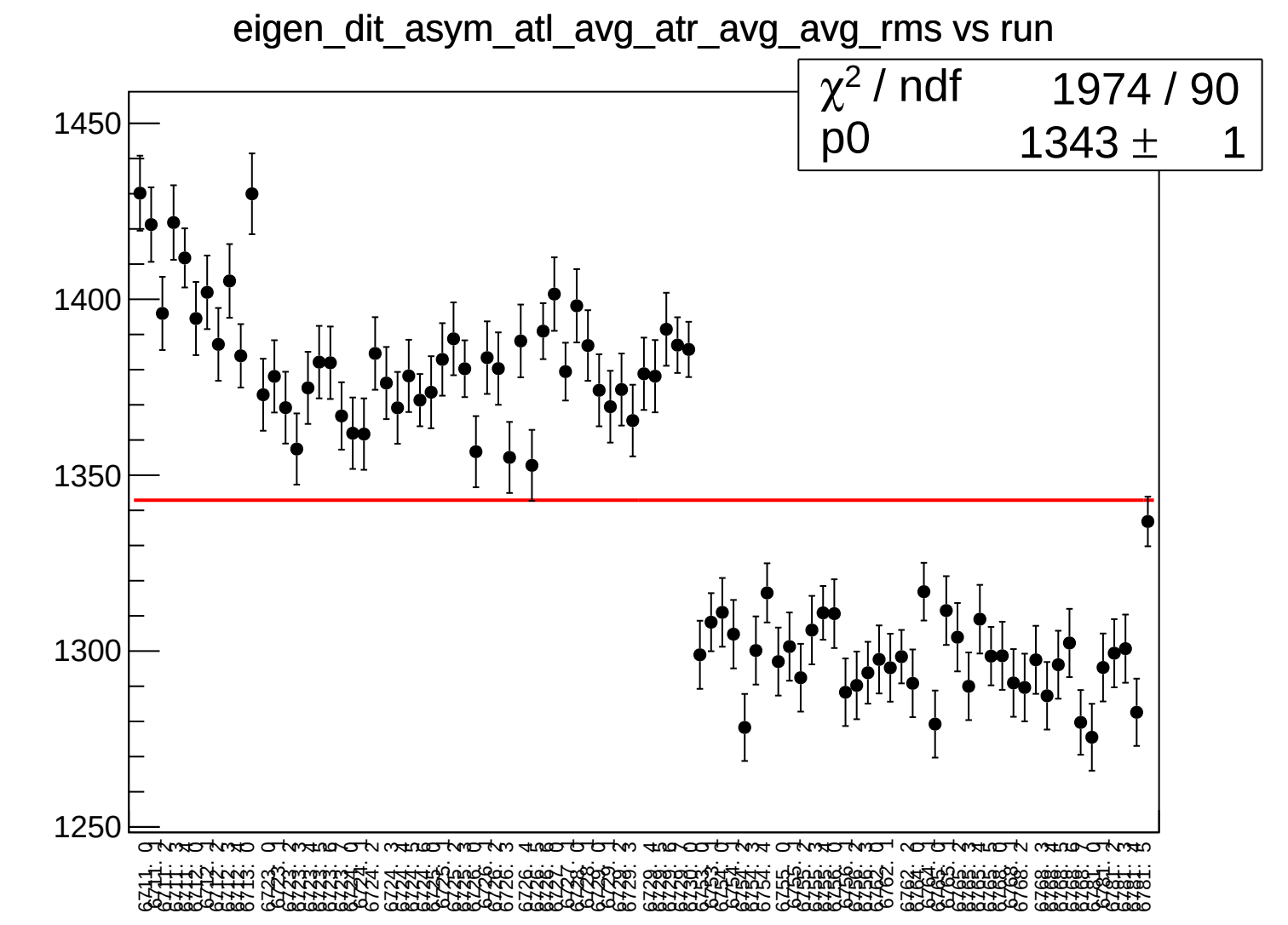

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 81.81 / 90
p0 −533.5 ± 4679
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −62.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

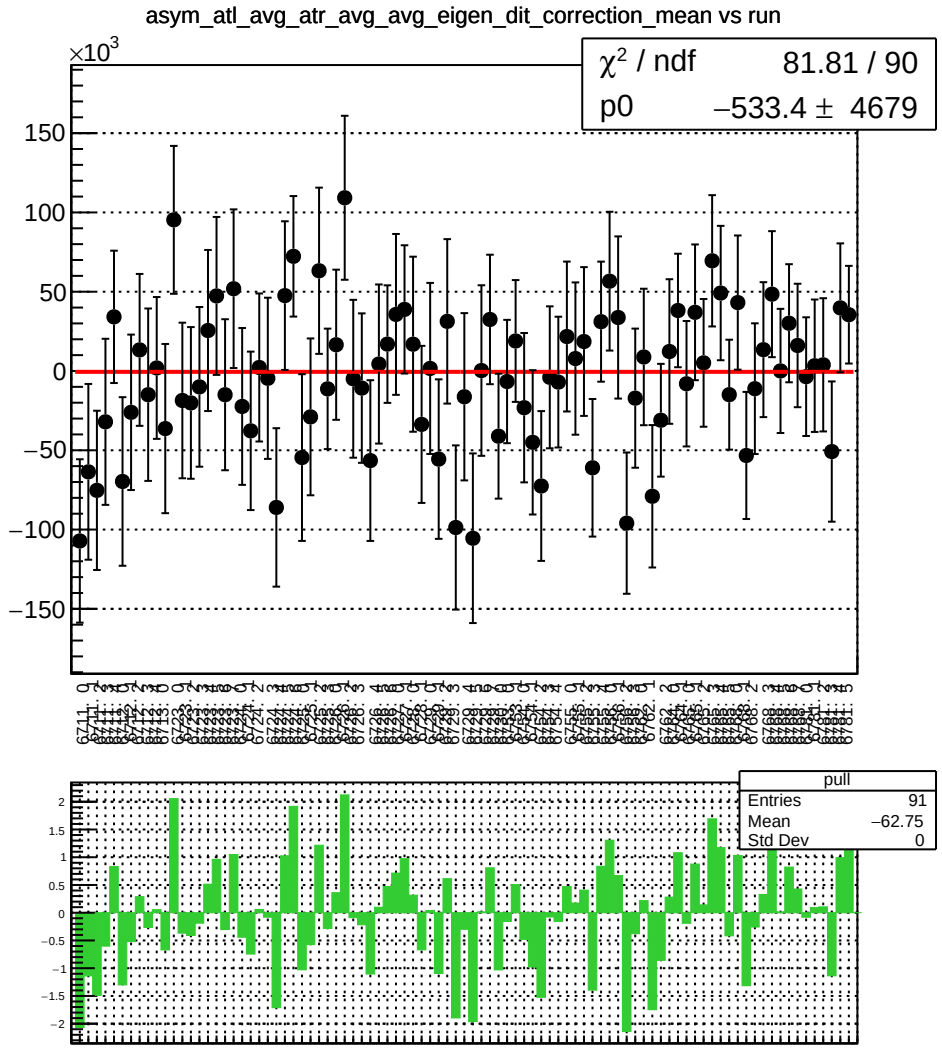

pull1D
Entries 91
Mean −0.03599
Std Dev 0.9475
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

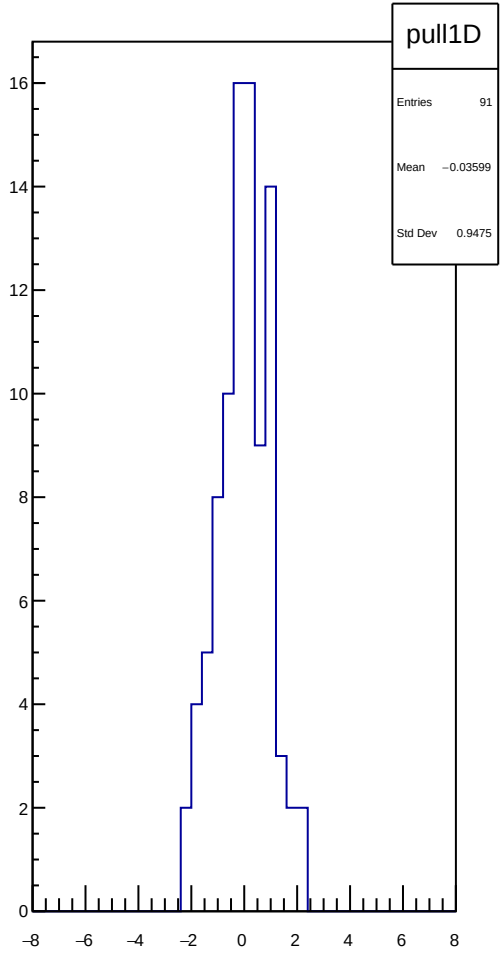

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.792e+04 / 90
p0 4422 ± 3.308
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

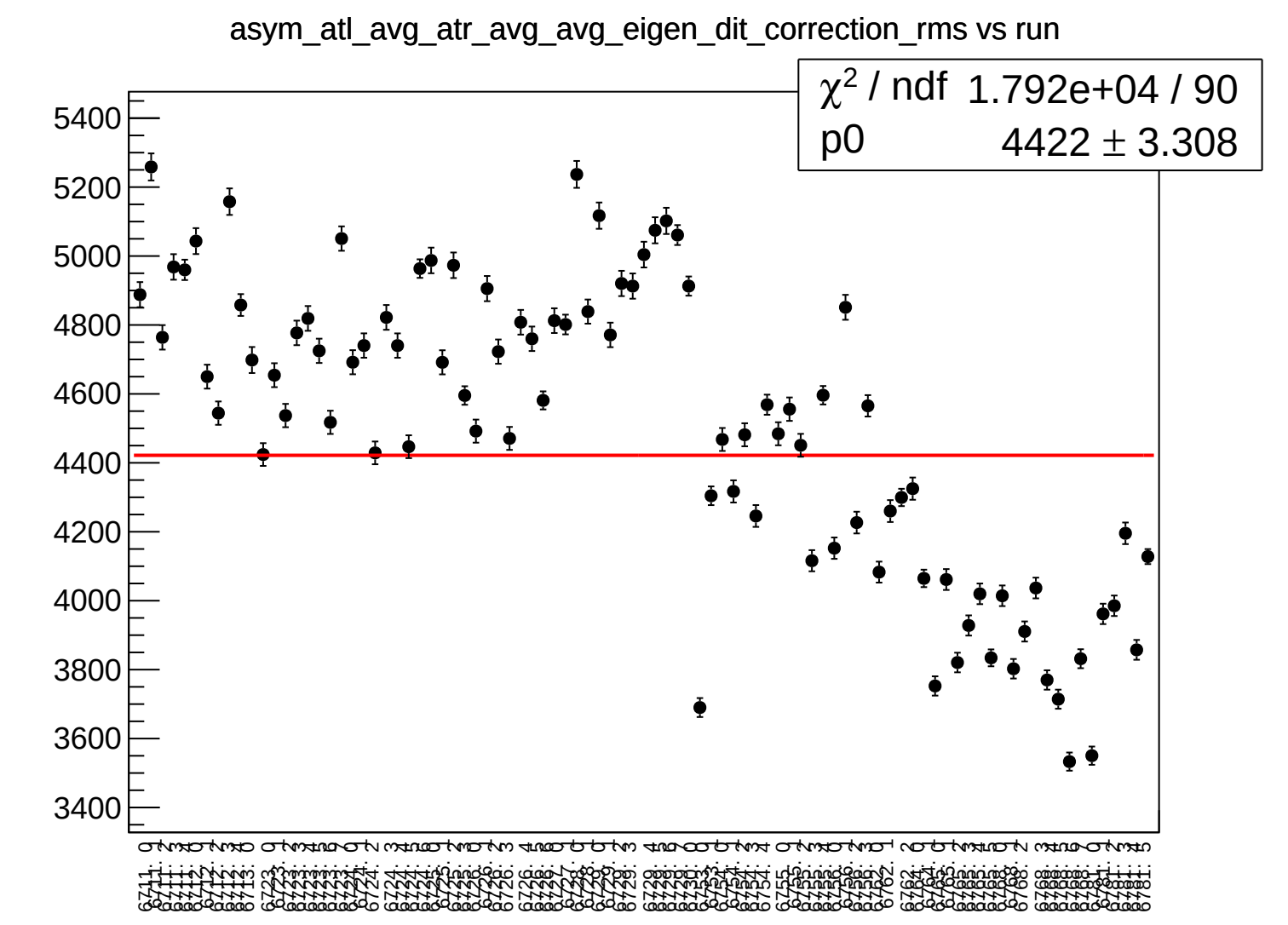

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 92.21 / 90
p0 −3296 ± 1415
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −485.7
Std Dev 0
2
1
0
−1
−2
−3

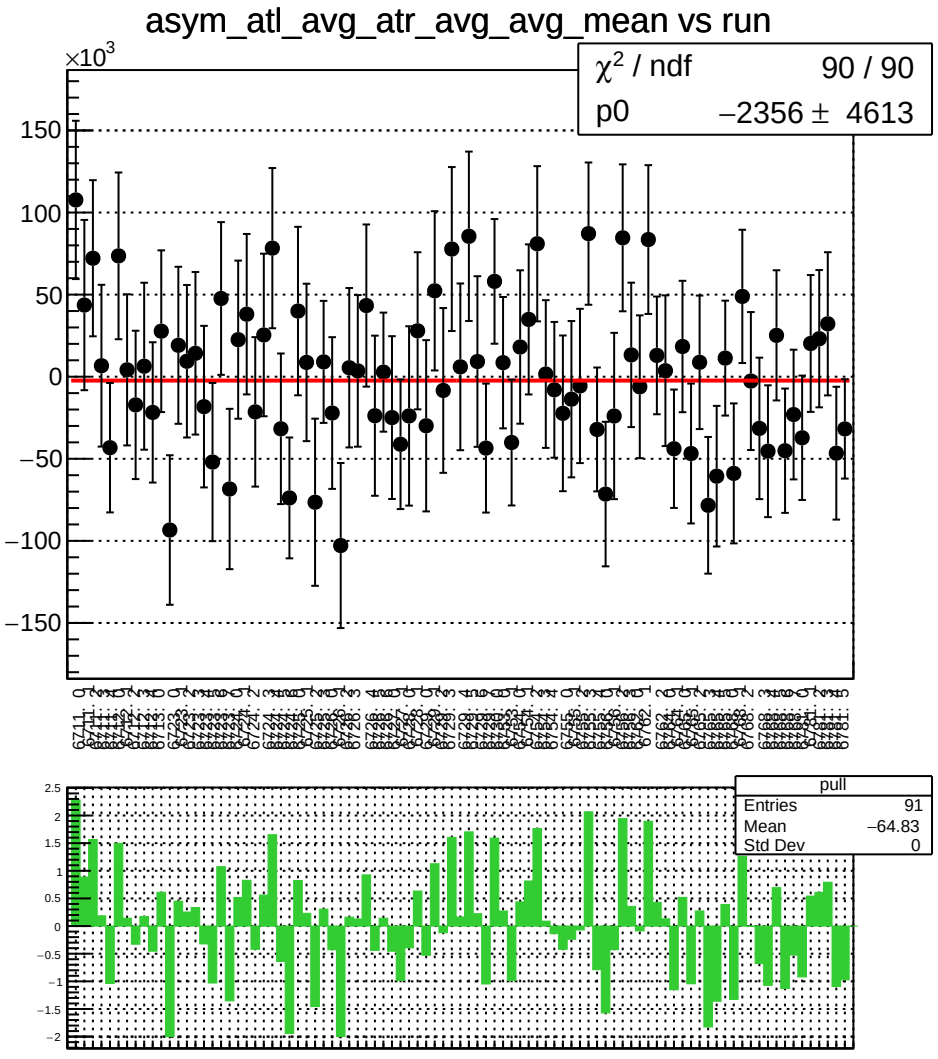

pull1D
Entries 91
Mean −0.003891
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

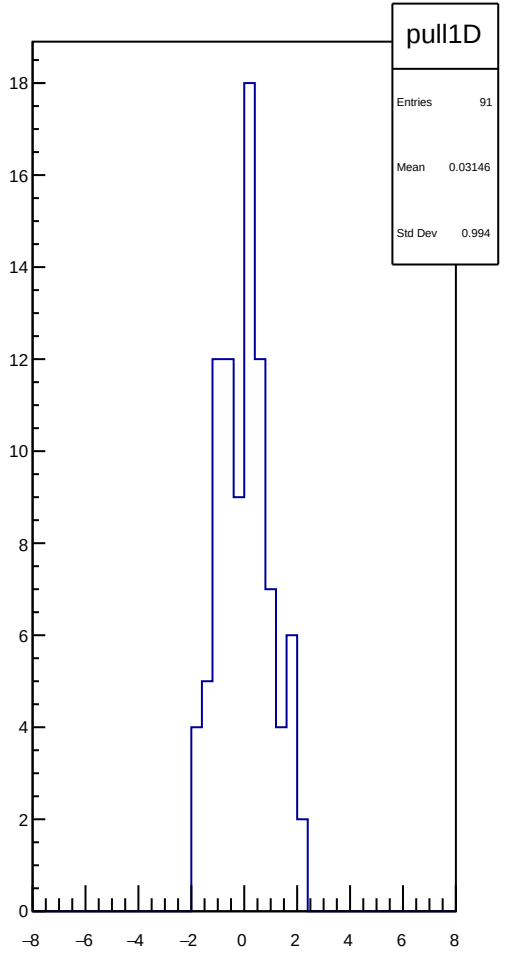

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1974 / 90
p0 1343 ± 1
1450
1400
1350
1300
1250

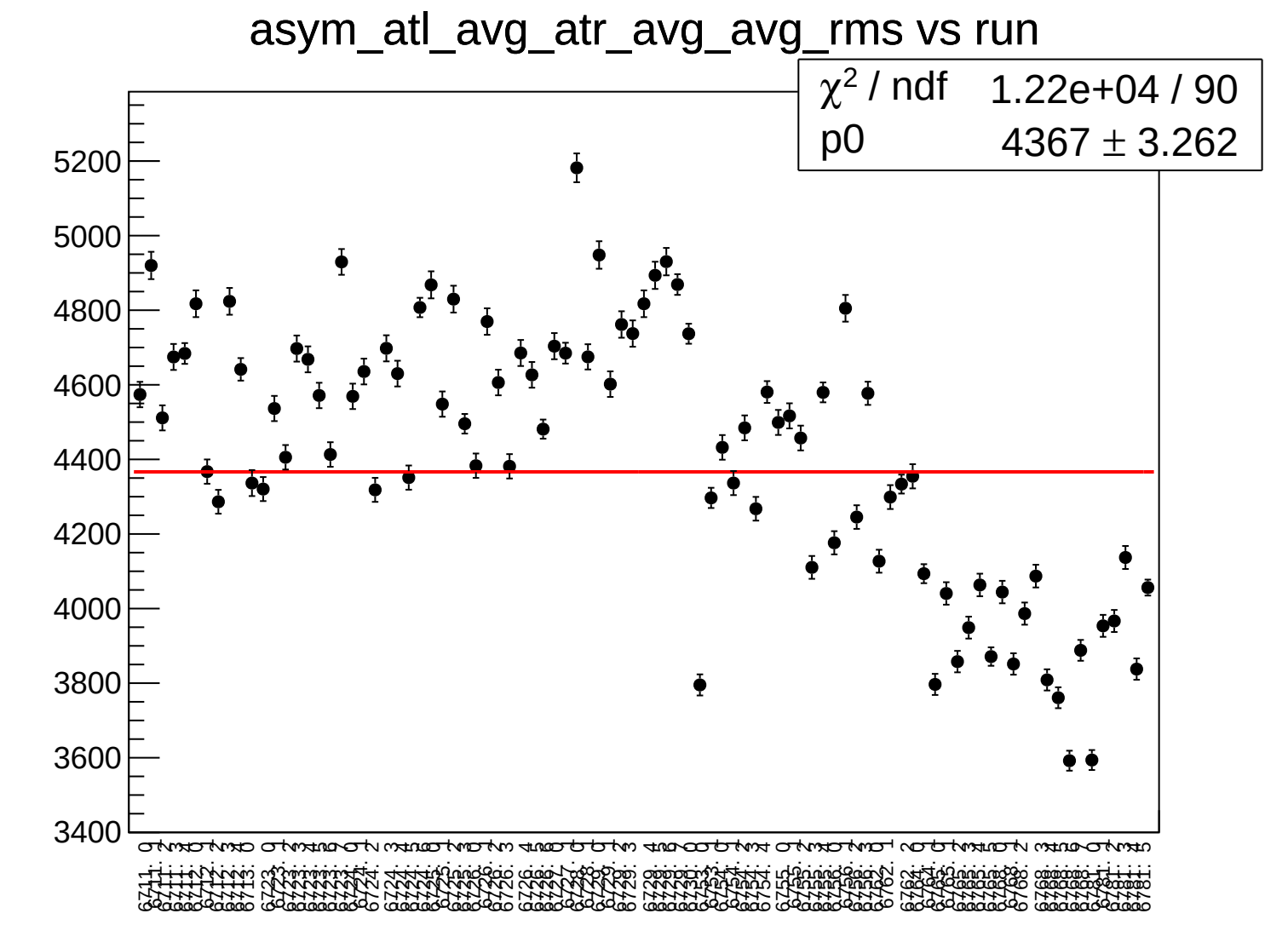

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.81 / 90
p0 −533.4 ± 4679
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −62.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

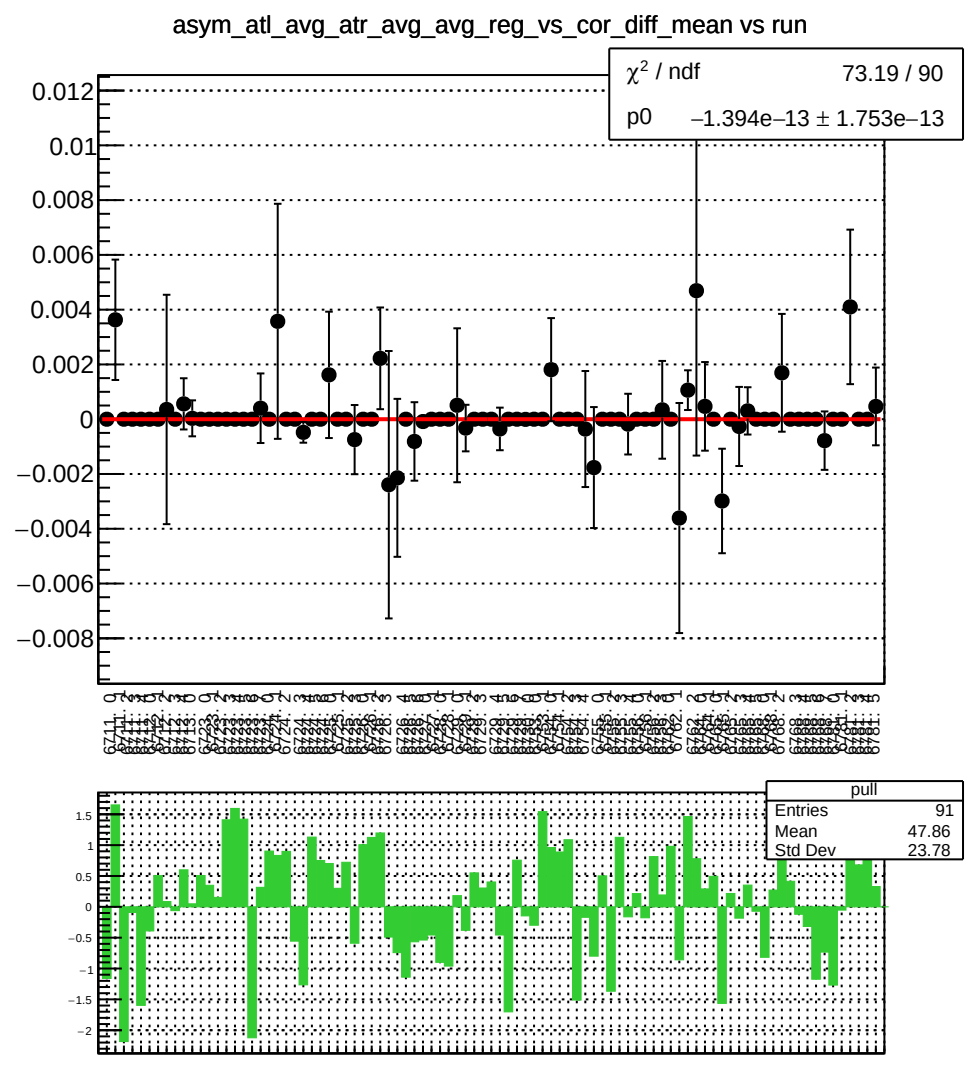

pull1D
Entries 91
Mean −0.03599
Std Dev 0.9475
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

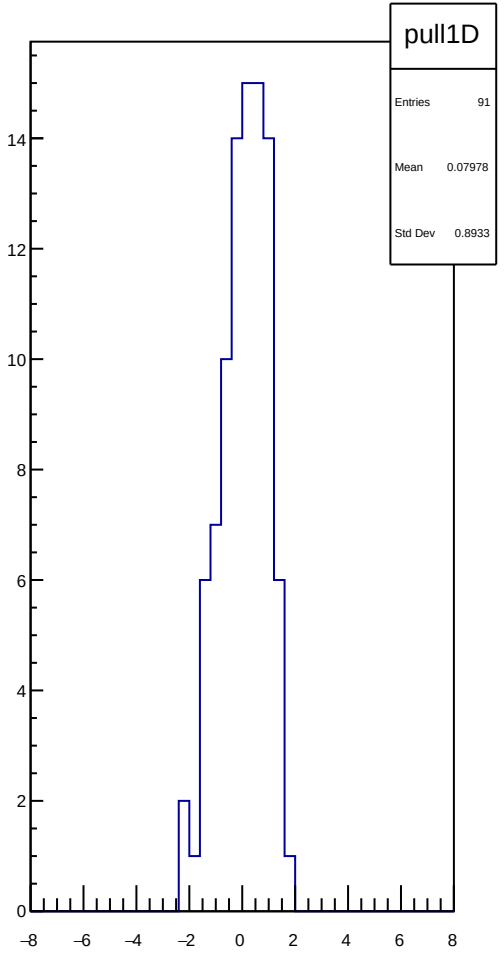

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.792e+04 / 90
p0 4422 ± 3.308
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

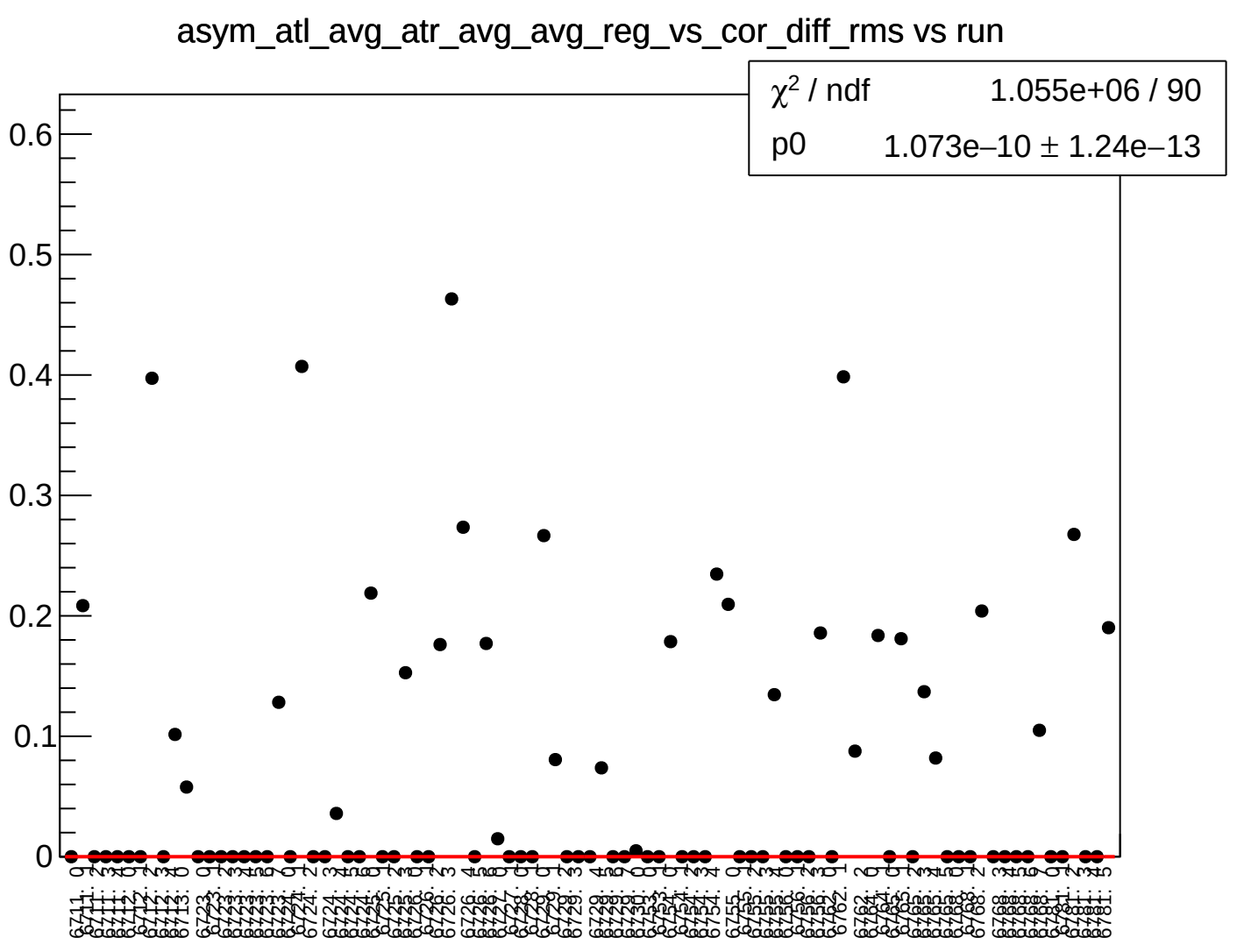

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 90 / 90
p0 −2356 ± 4613
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −64.83
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

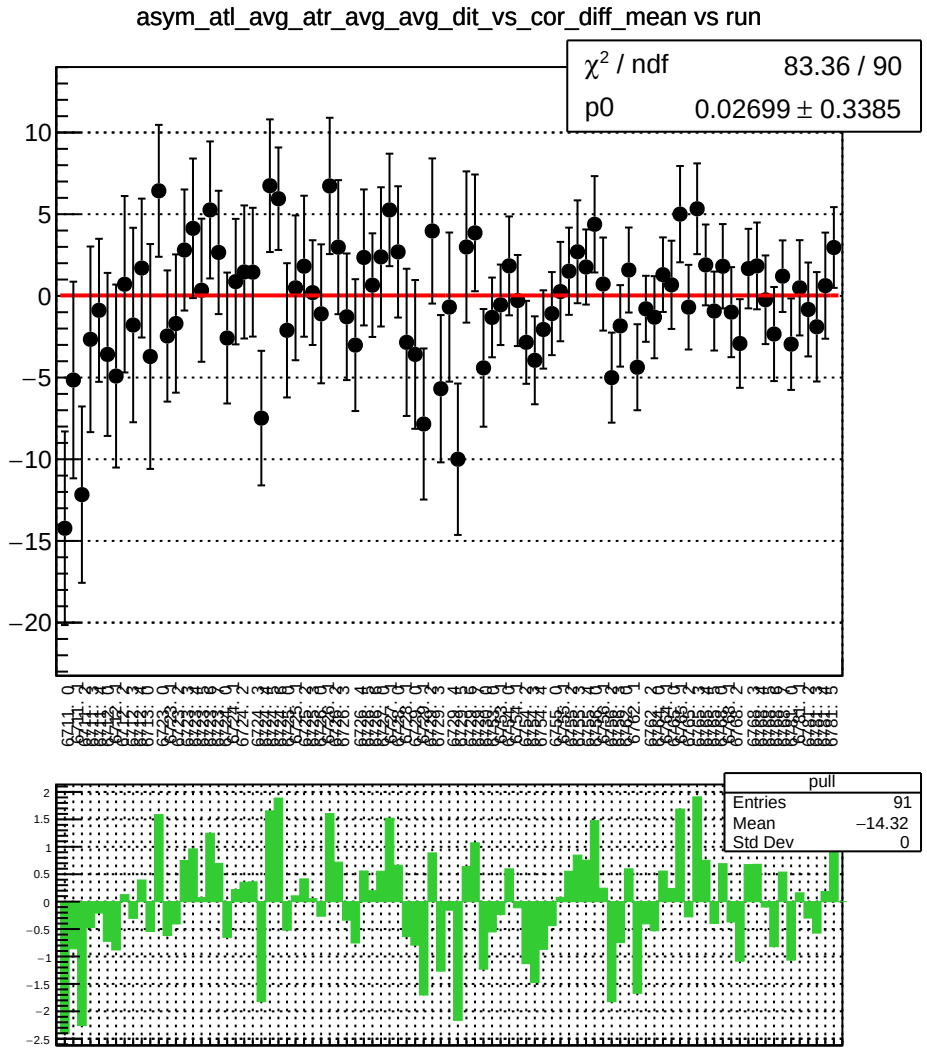

pull1D
Entries 91
Mean 0.03146
Std Dev 0.994
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

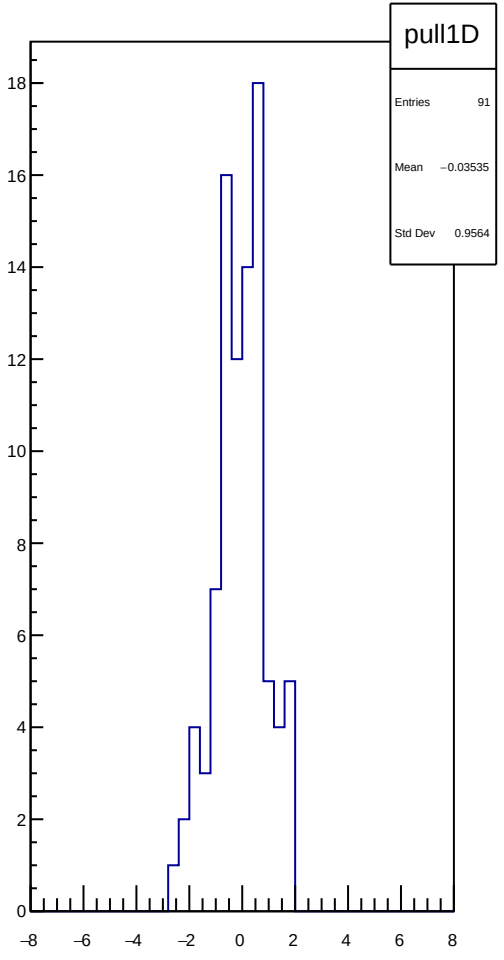

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.22e+04 / 90
p0 4367 ± 3.262
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

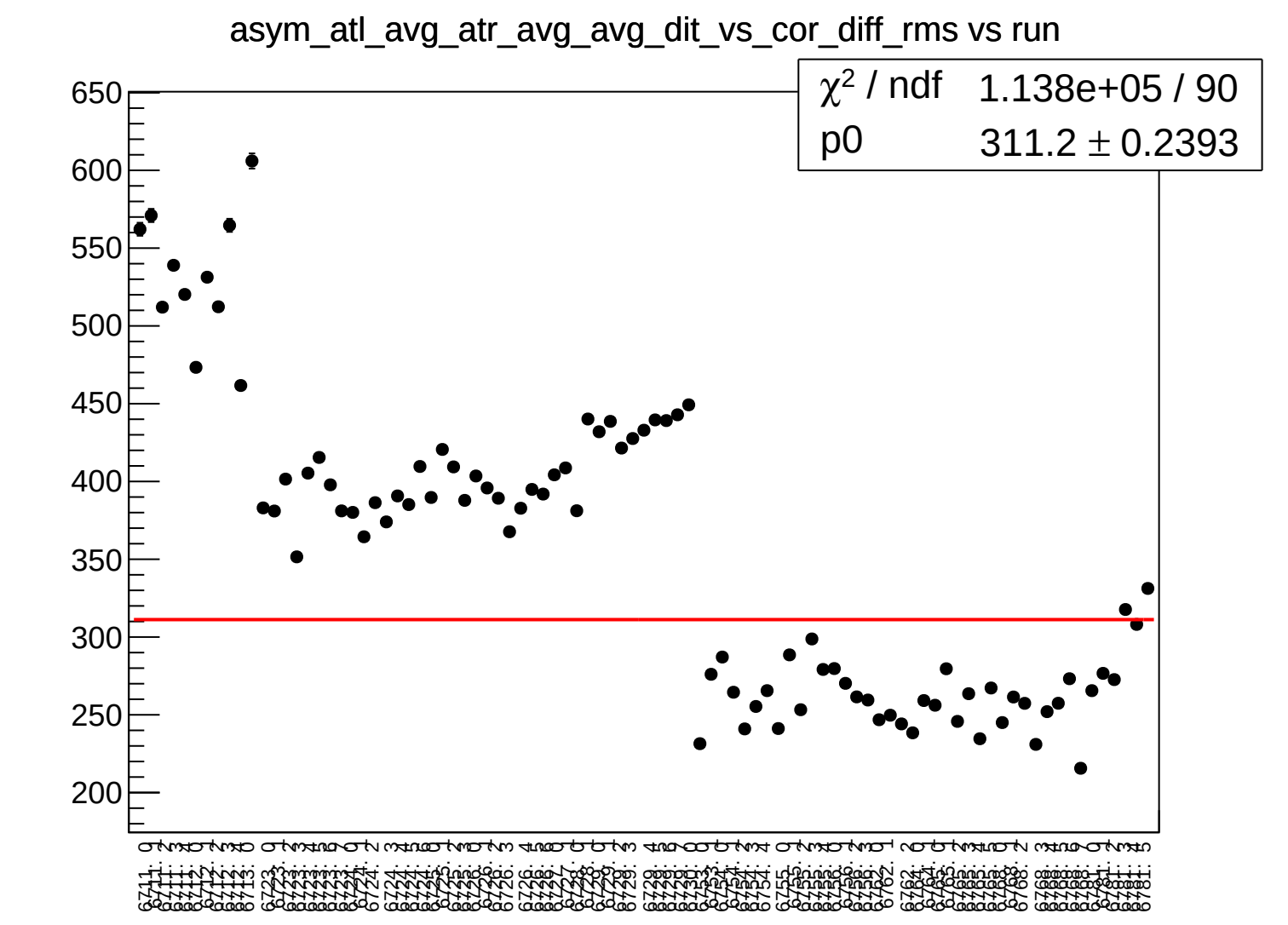

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.19 / 90
p0 −1.394e−13 ± 1.753e−13
pull
Entries 91
Mean 47.86
Std Dev 23.78

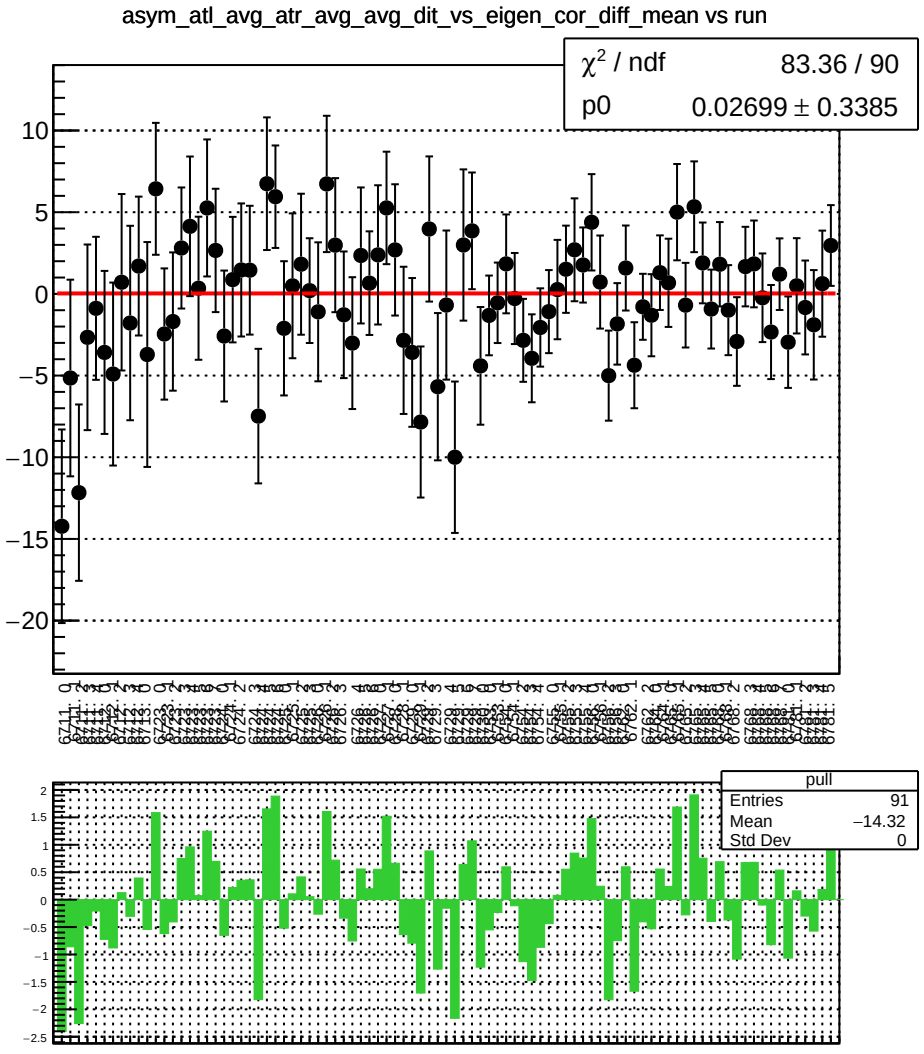

pull1D
Entries 91
Mean 0.07978
Std Dev 0.8933

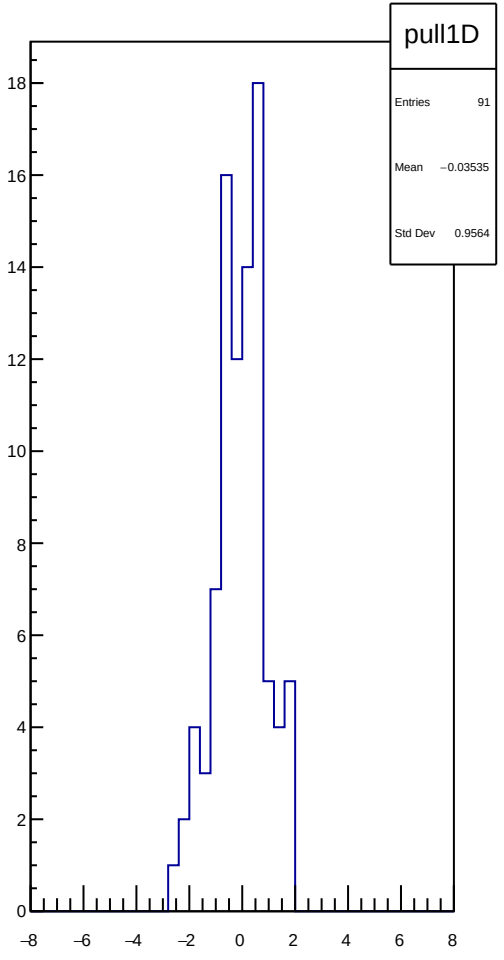

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.055e+06 / 90
p0 1.073e−10 ± 1.24e−13
0.6
0.5
0.4
0.3
0.2
0.1
0

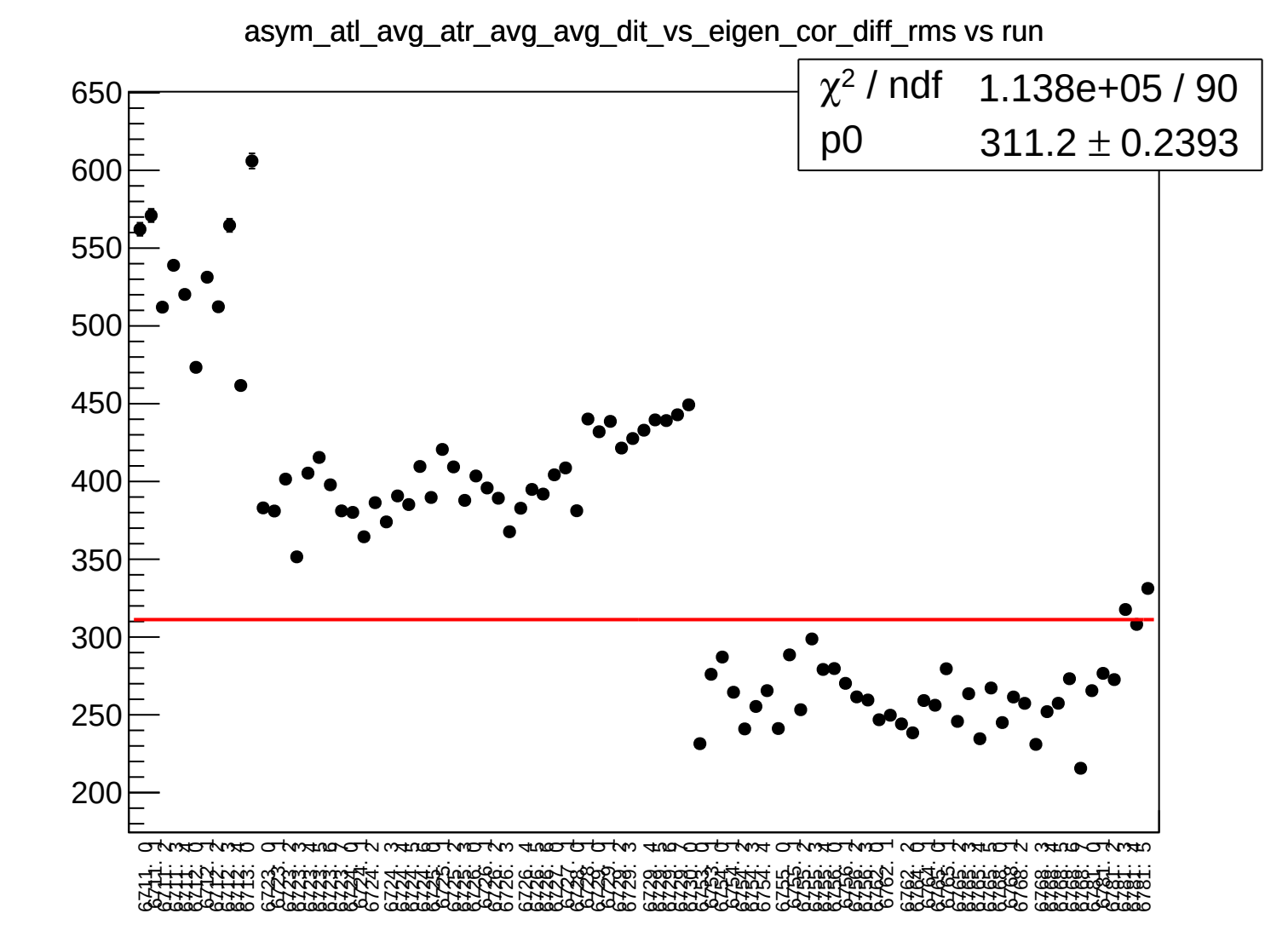

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.36 / 90
p0 0.02699 ± 0.3385
pull
Entries 91
Mean −14.32
Std Dev 0

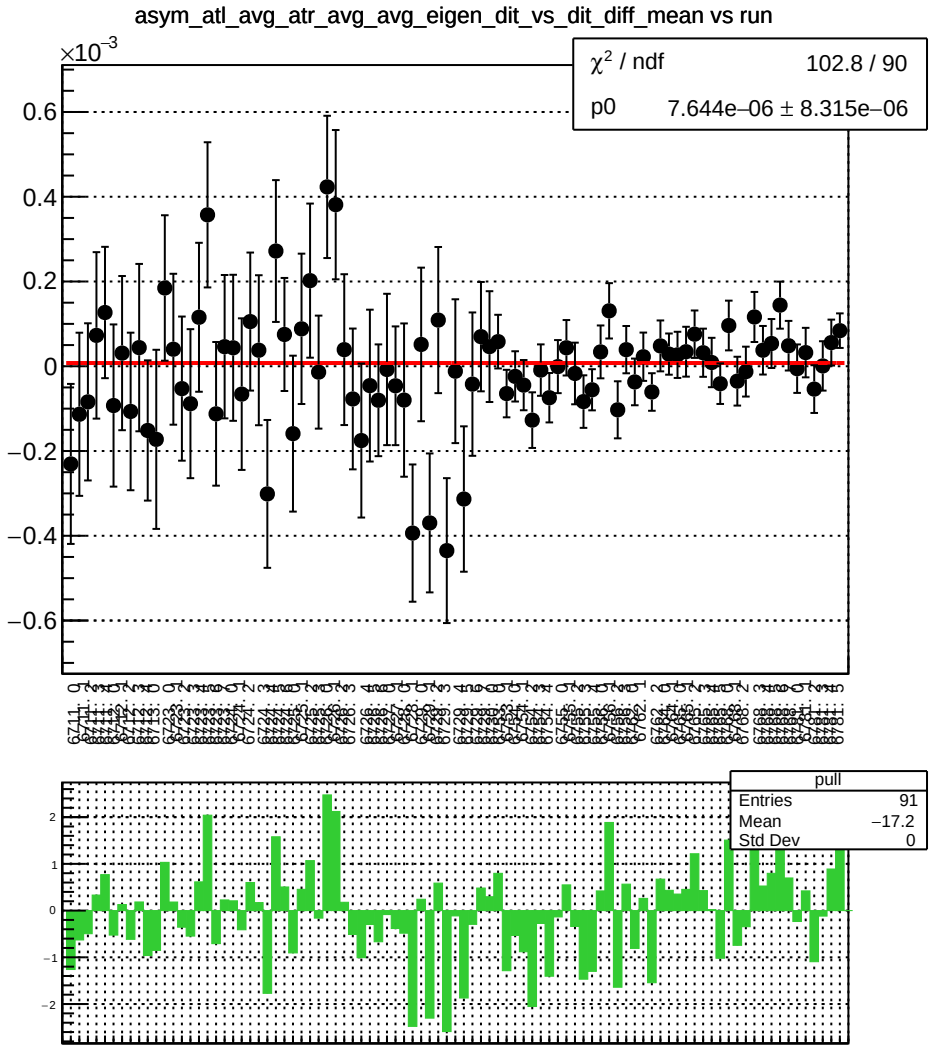

pull1D
Entries 91
Mean −0.03535
Std Dev 0.9564

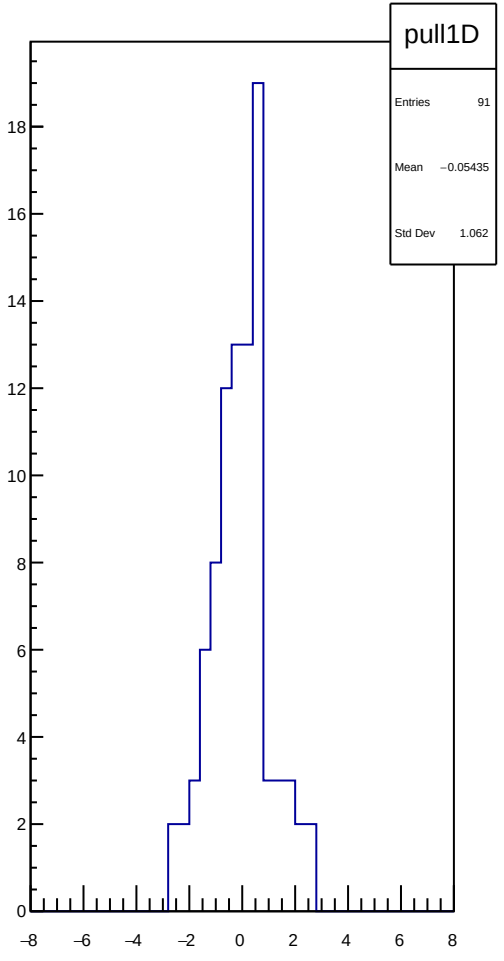

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.138e+05 / 90
p0 311.2 ± 0.2393
650
600
550
500
450
400
350
300
250
200

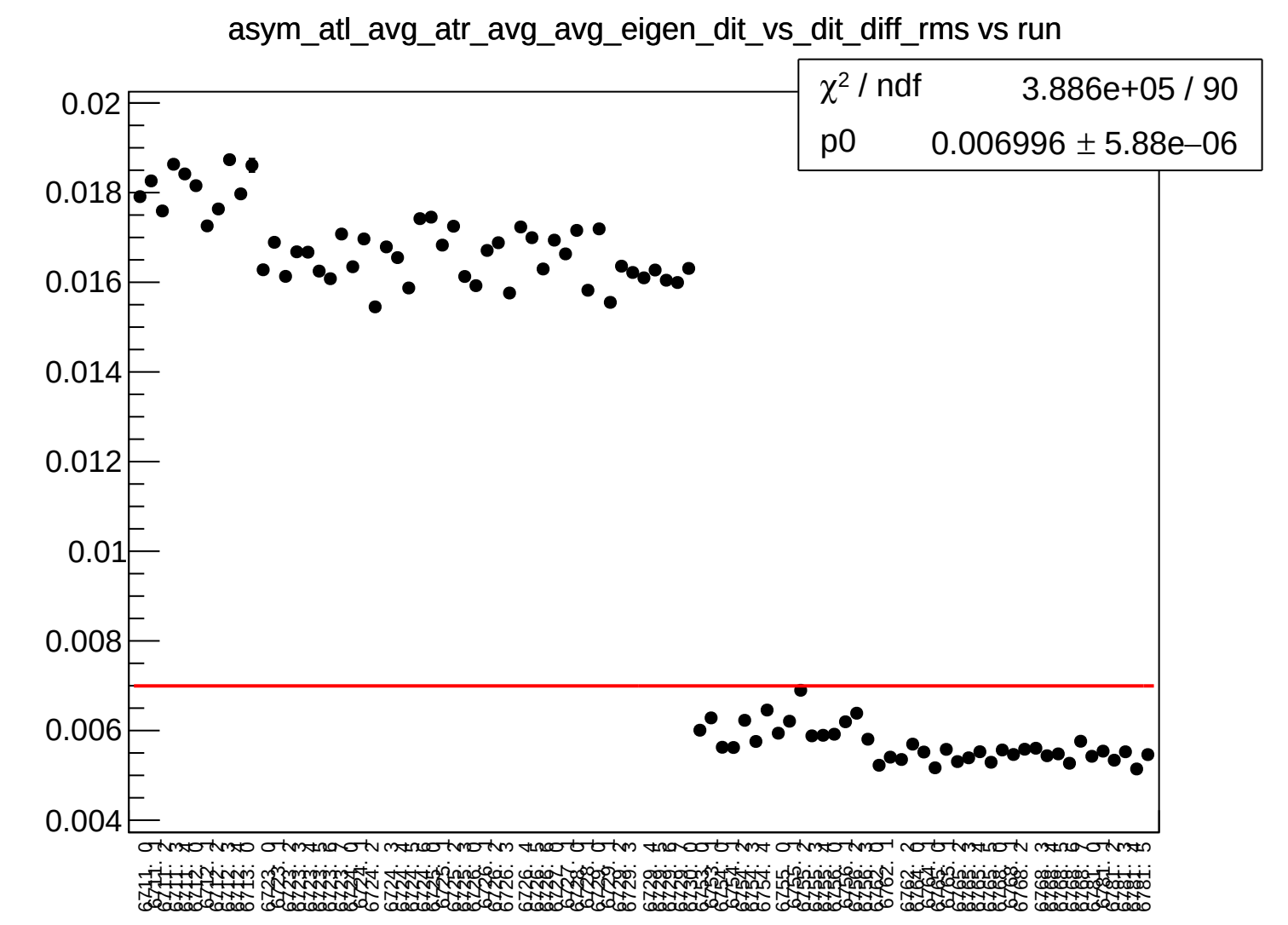

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.36 / 90
p0 0.02699 ± 0.3385
pull
Entries 91
Mean −14.32
Std Dev 0

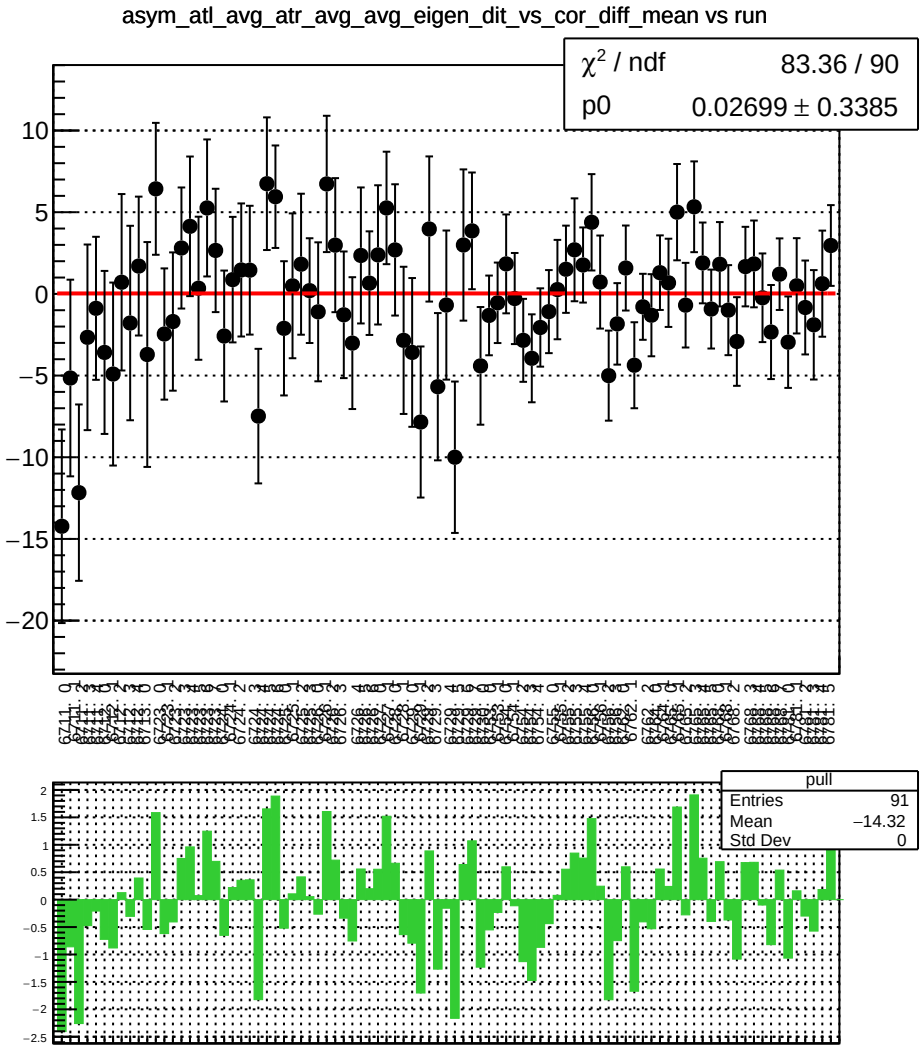

pull1D
Entries 91
Mean −0.03535
Std Dev 0.9564

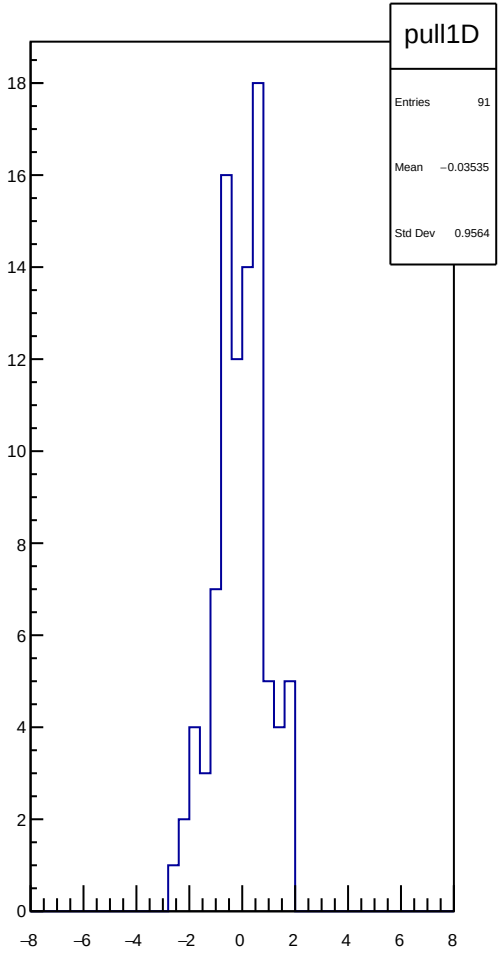

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.138e+05 / 90
p0 311.2 ± 0.2393
650
600
550
500
450
400
350
300
250
200

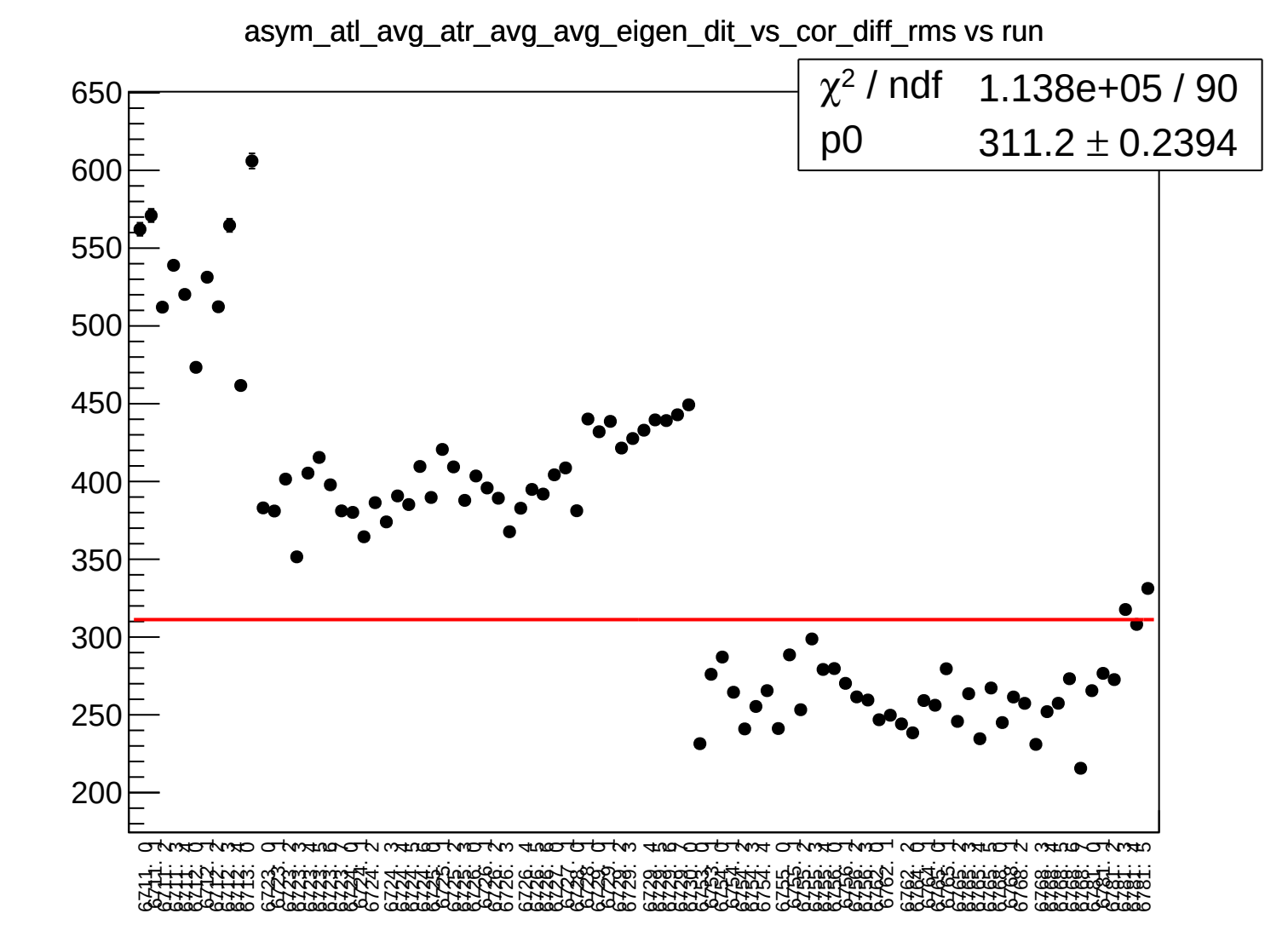

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.8 / 90
p0 7.644e−06 ± 8.315e−06
pull
Entries 91
Mean −17.2
Std Dev 0

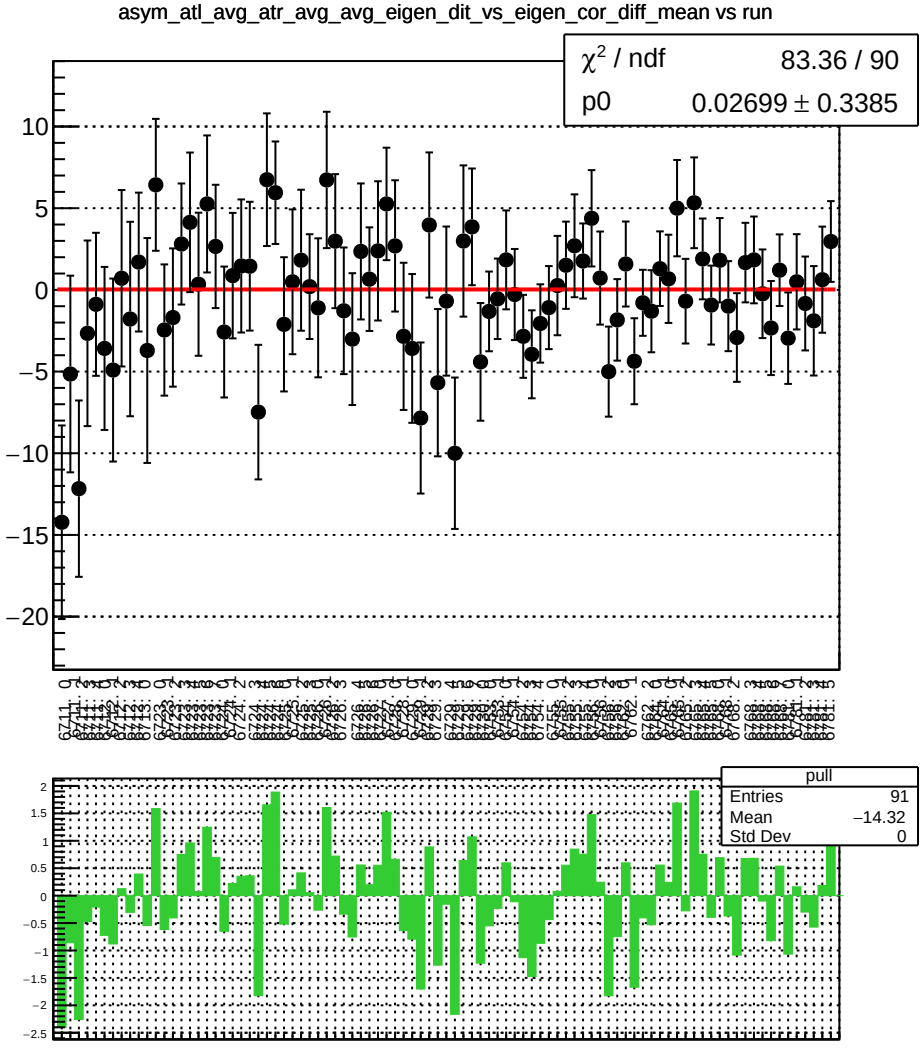

pull1D
Entries 91
Mean −0.05435
Std Dev 1.062

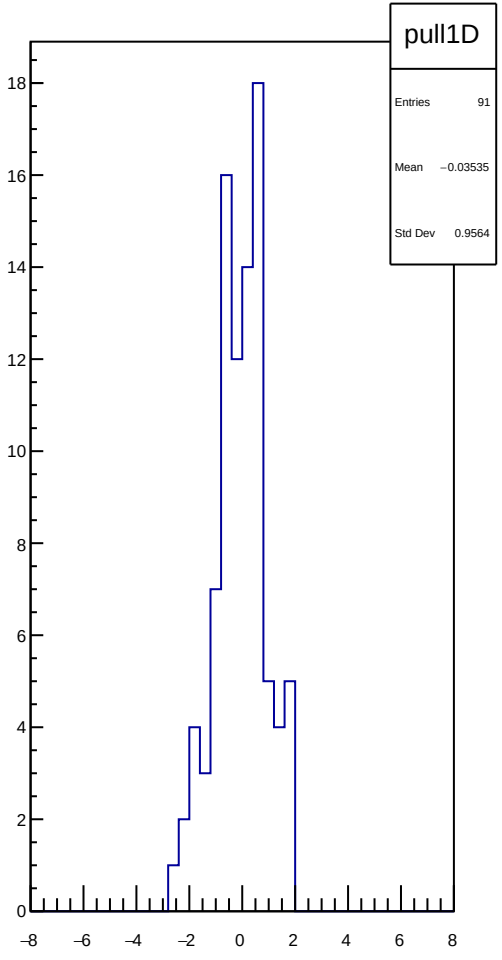

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.886e+05 / 90
p0 0.006996 ± 5.88e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

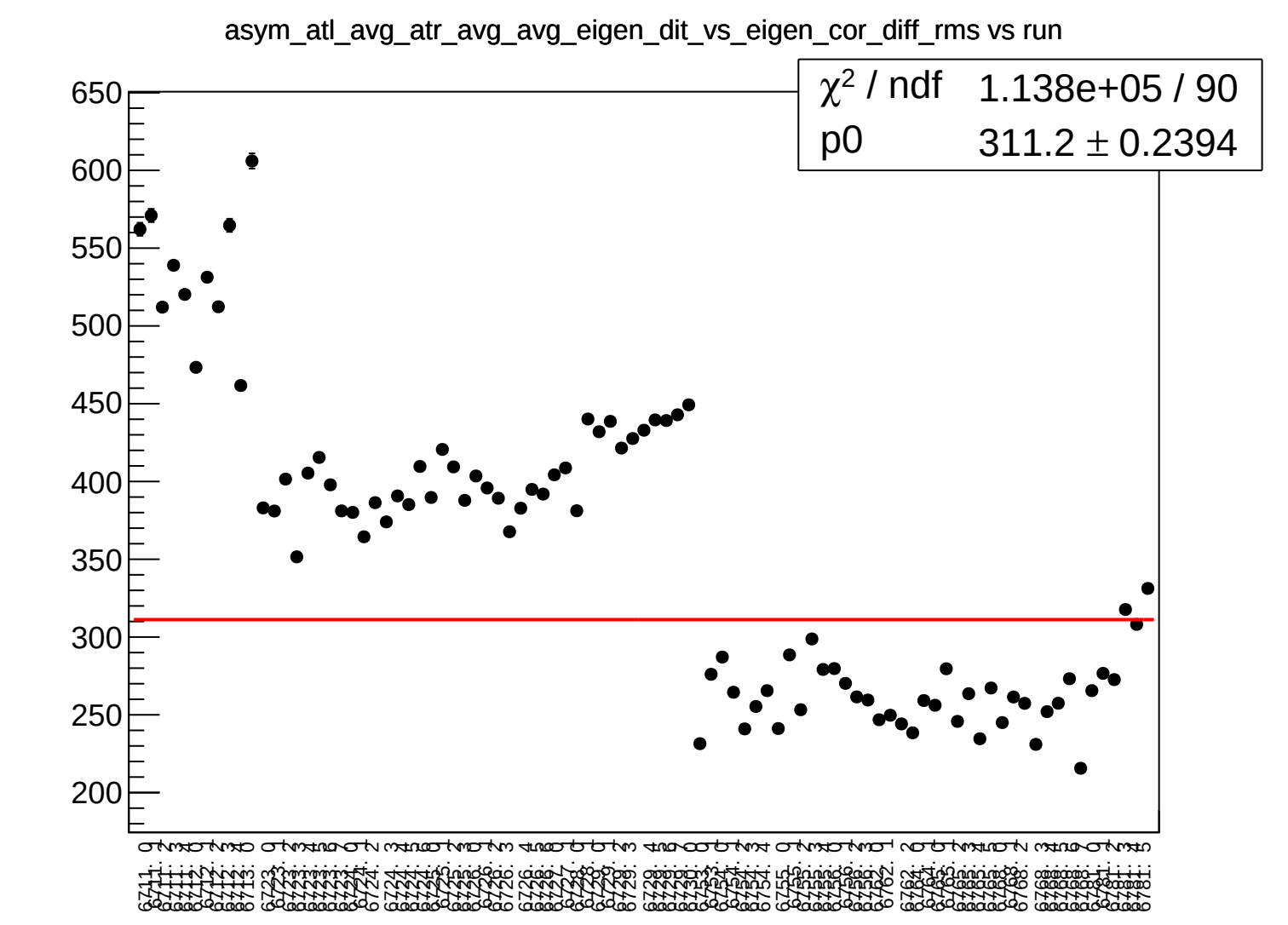

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.36 / 90
p0 0.02699 ± 0.3385
pull
Entries 91
Mean −14.32
Std Dev 0

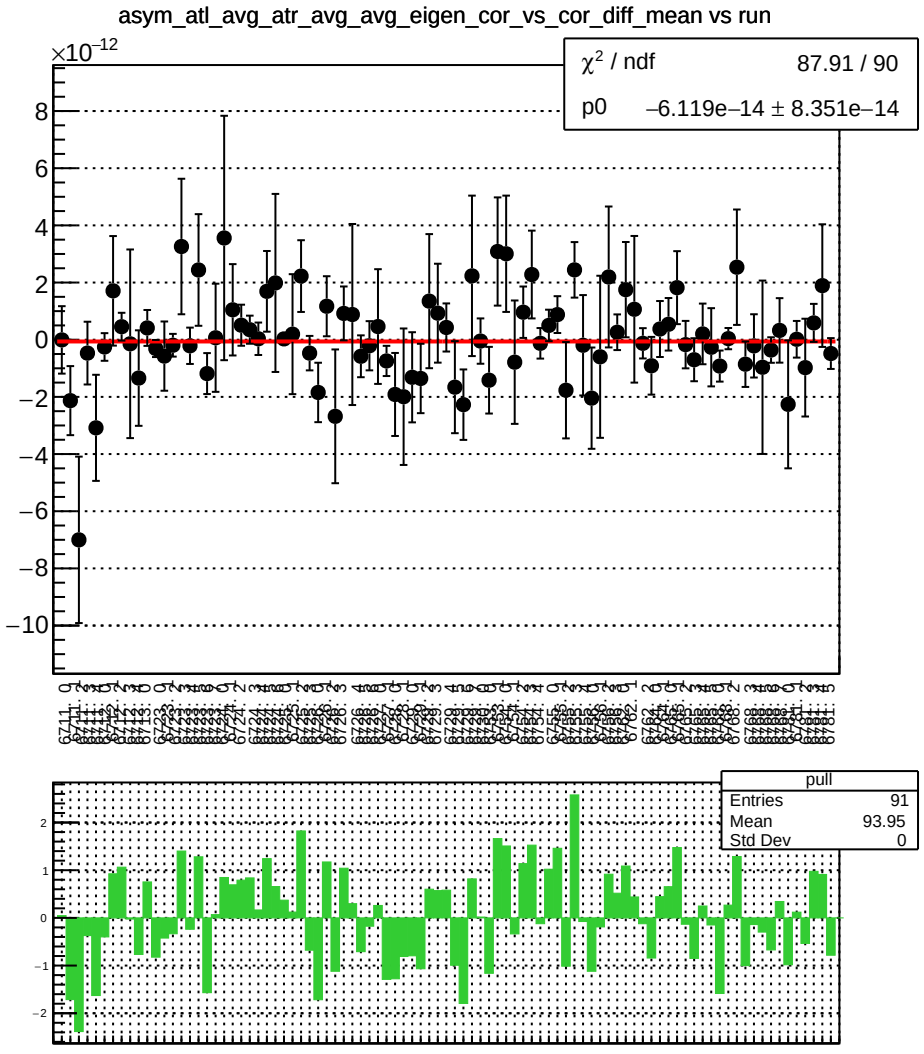

pull1D
Entries 91
Mean −0.03535
Std Dev 0.9564

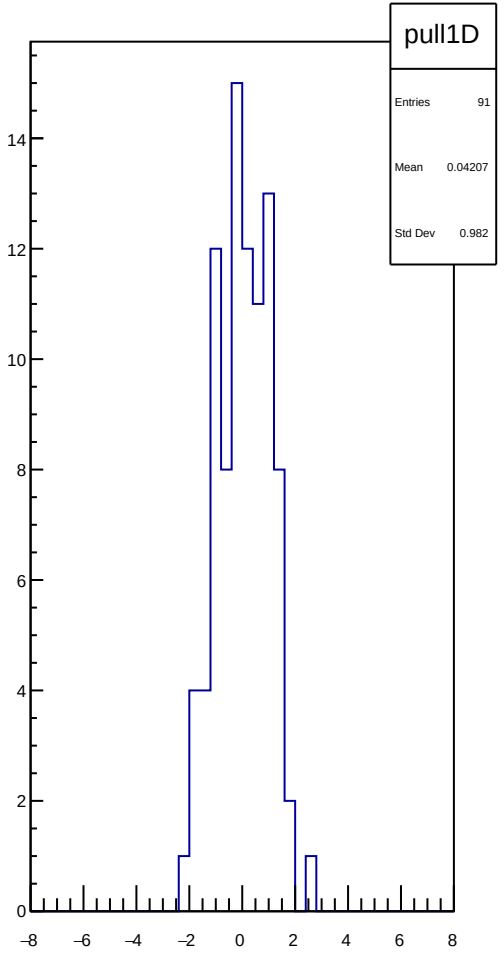

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.138e+05 / 90
p0 311.2 ± 0.2394
650
600
550
500
450
400
350
300
250
200

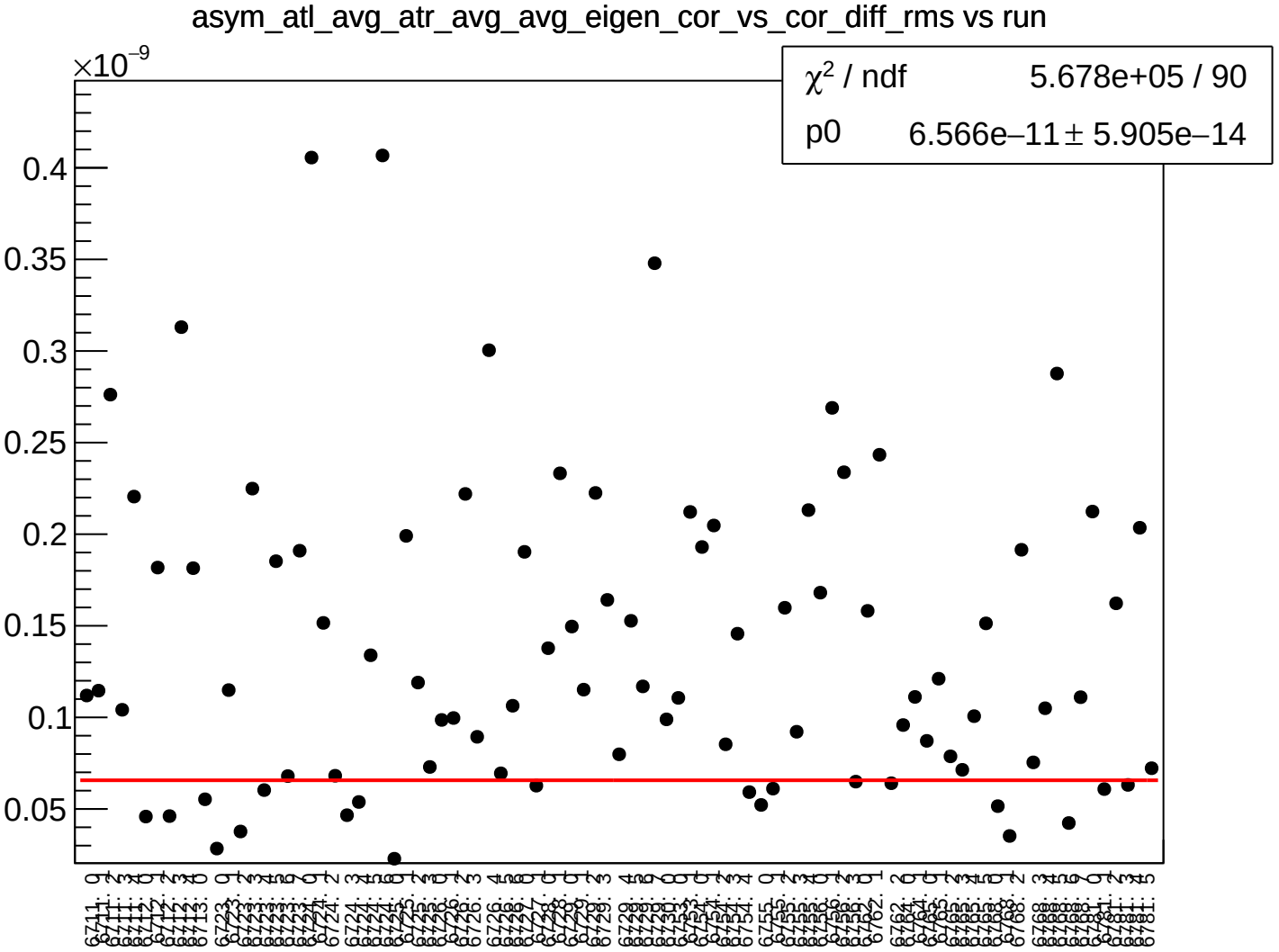

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.36 / 90
p0 0.02699 ± 0.3385
pull
Entries 91
Mean −14.32
Std Dev 0

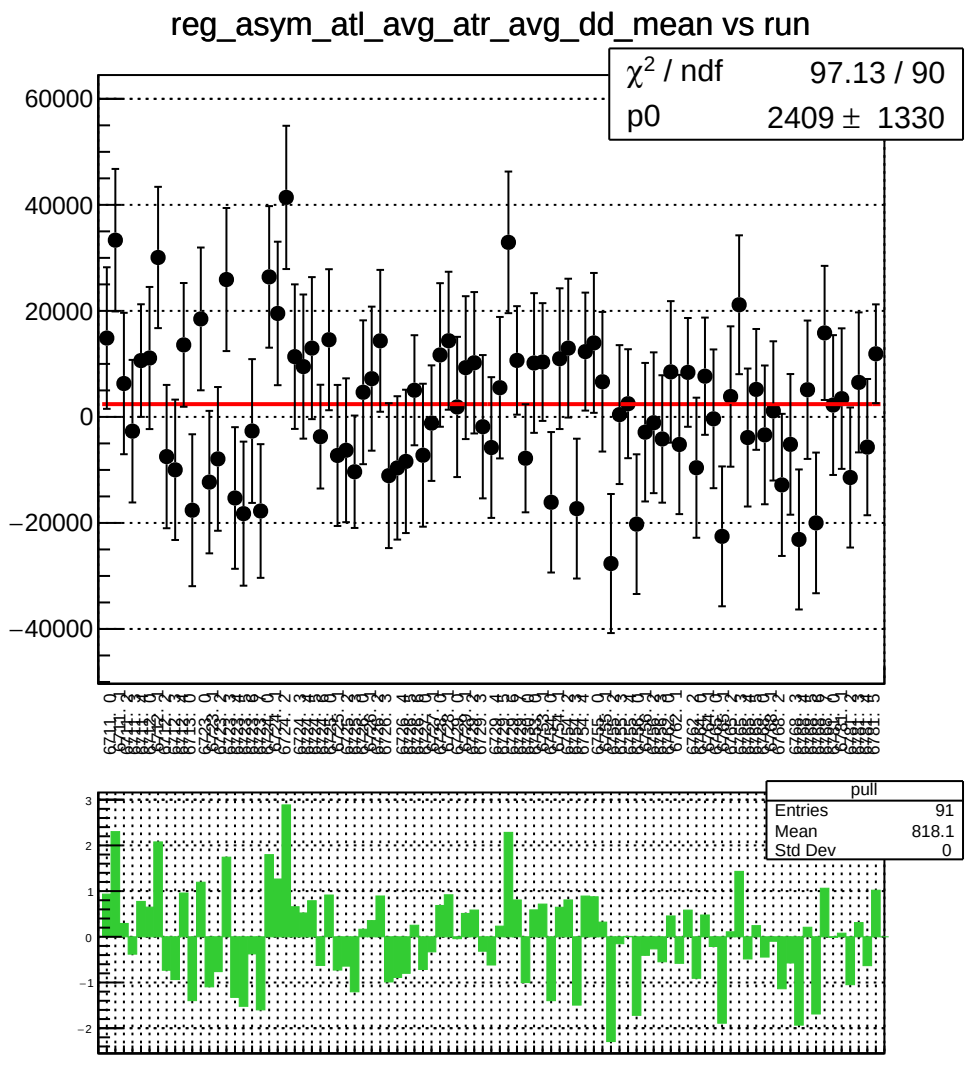

pull1D
Entries 91
Mean −0.03535
Std Dev 0.9564

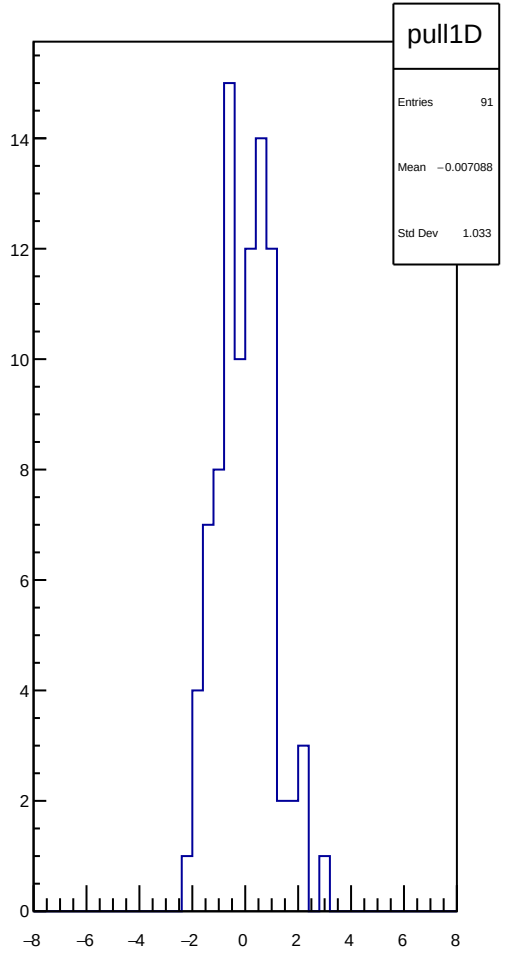

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.138e+05 / 90
p0 311.2 ± 0.2394
650
600
550
500
450
400
350
300
250
200

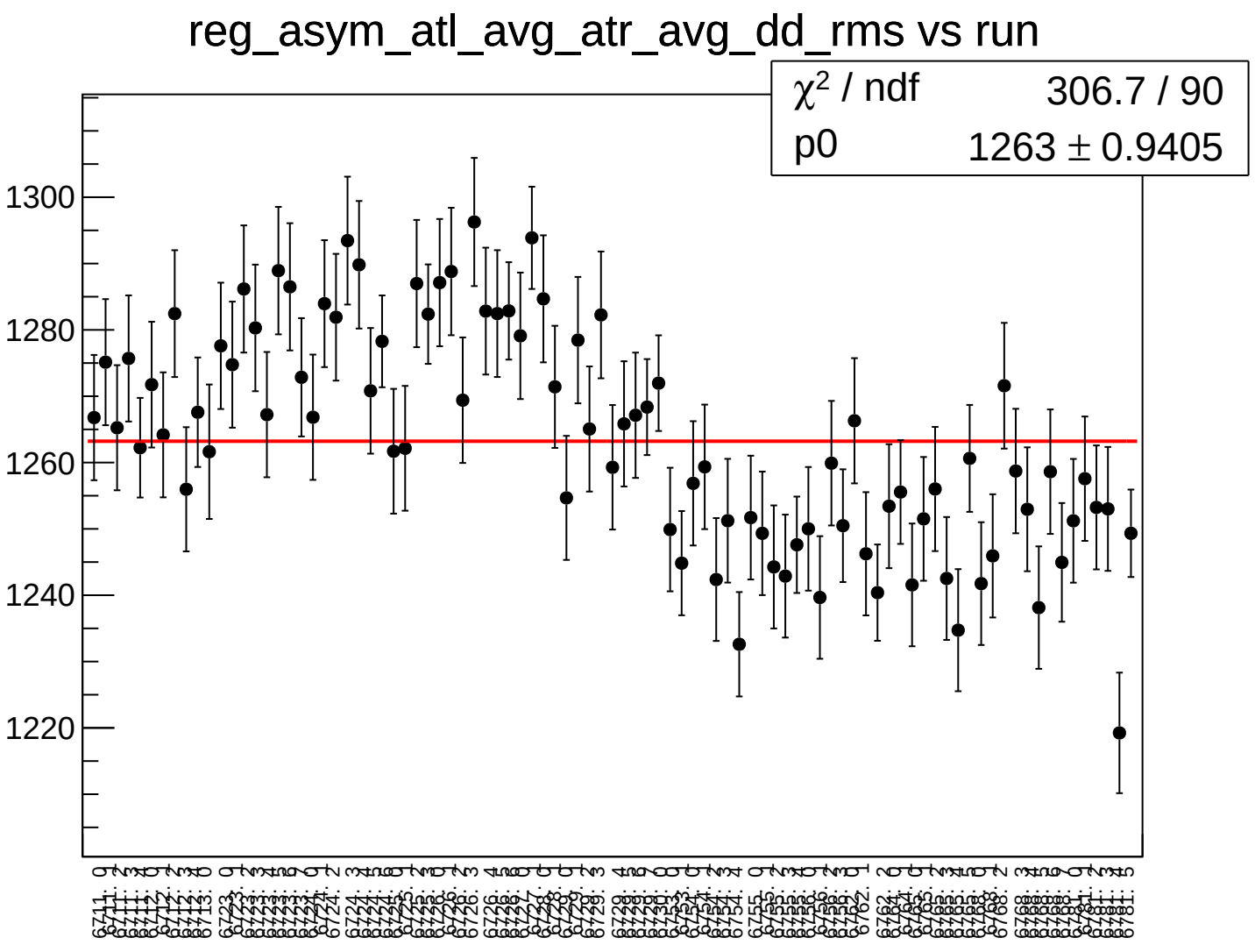

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.91 / 90
p0 −6.119e−14 ± 8.351e−14
pull
Entries 91
Mean 93.95
Std Dev 0

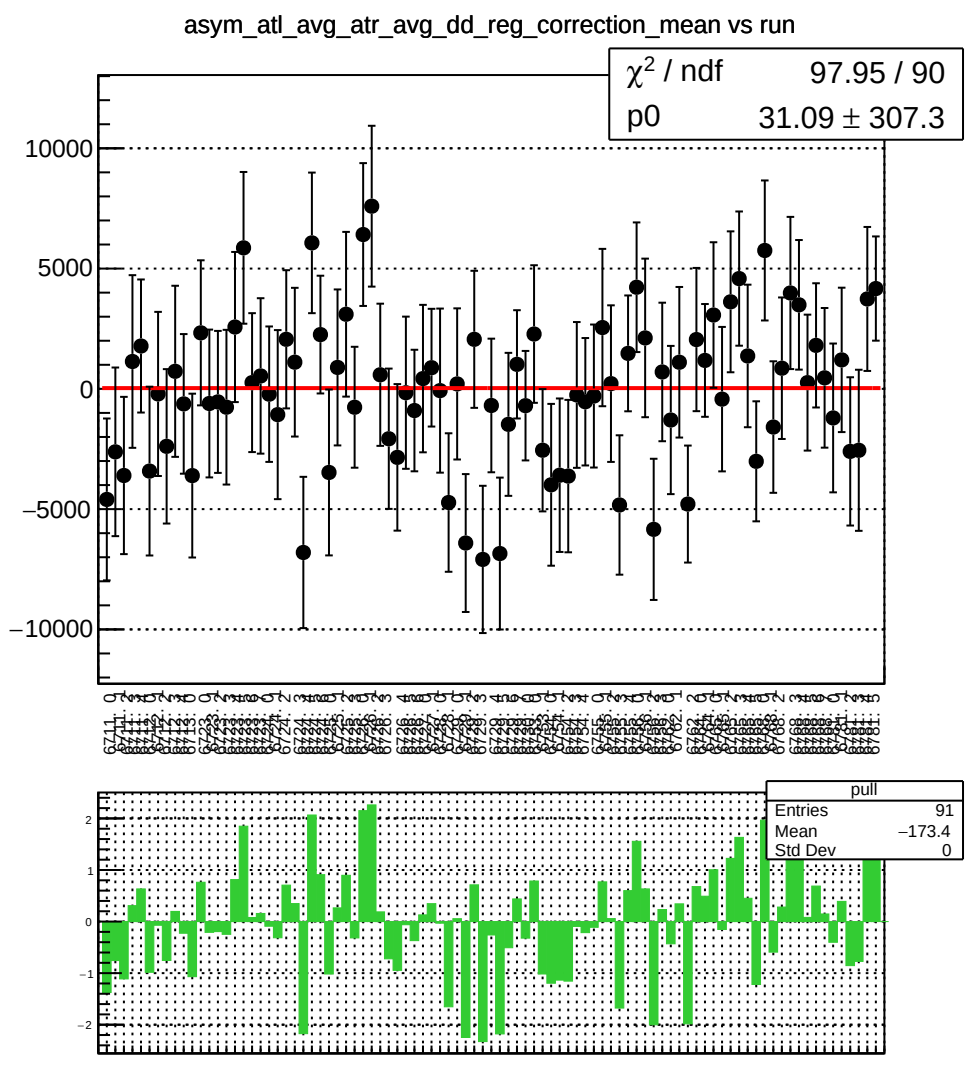

pull1D
Entries 91
Mean 0.04207
Std Dev 0.982

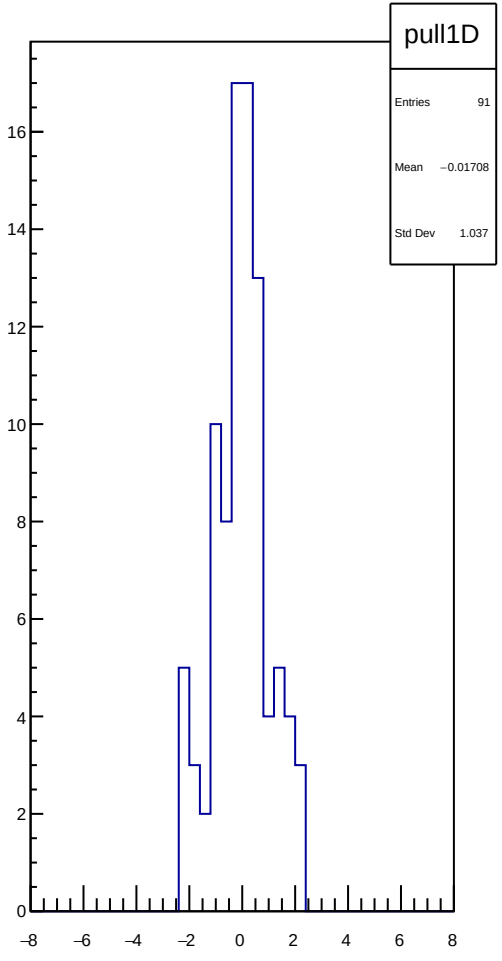

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.678e+05 / 90
p0 6.566e−11 ± 5.905e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

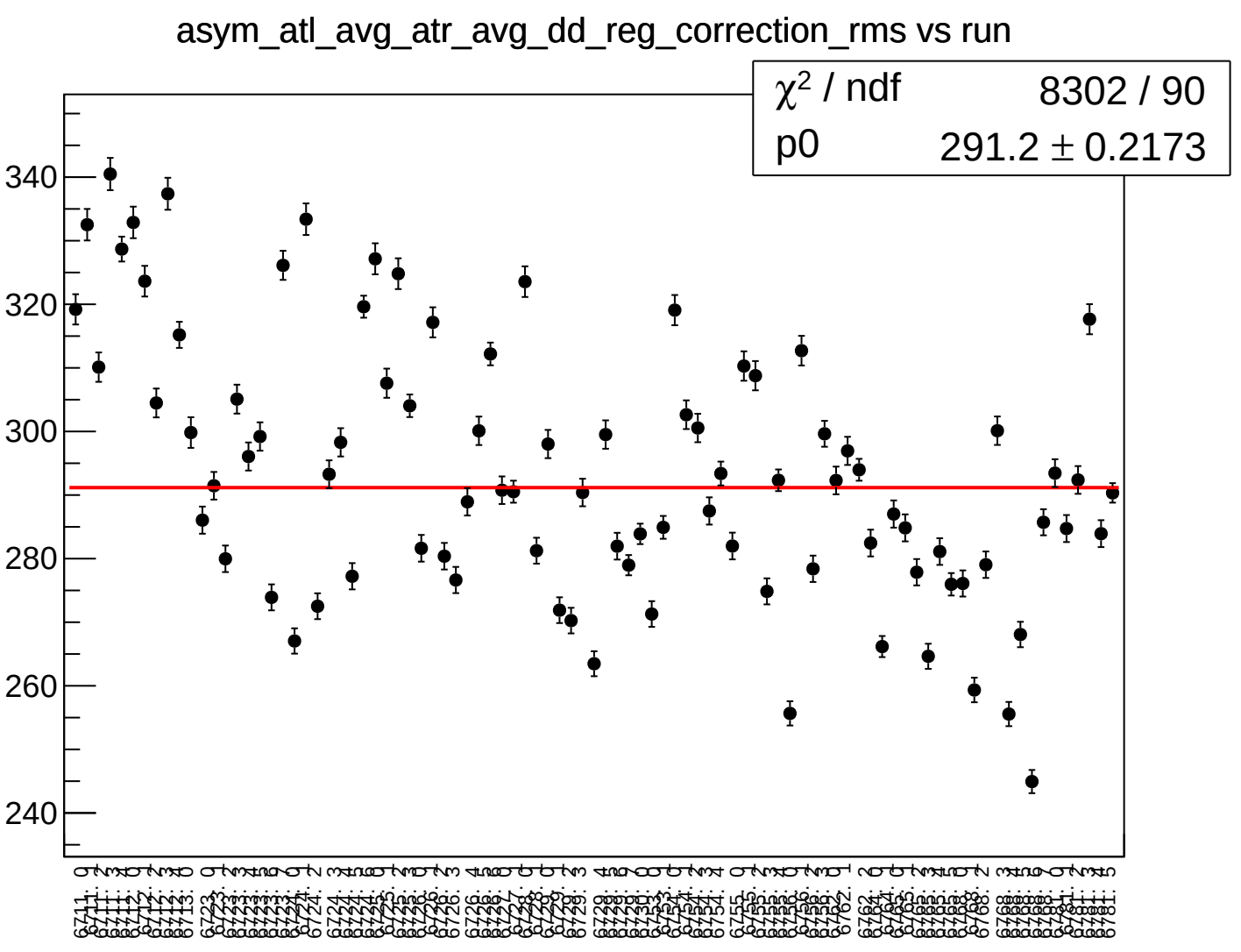

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 97.13 / 90
p0 2409 ± 1330
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 818.1
Std Dev 0
3
2
1
0
−1
−2

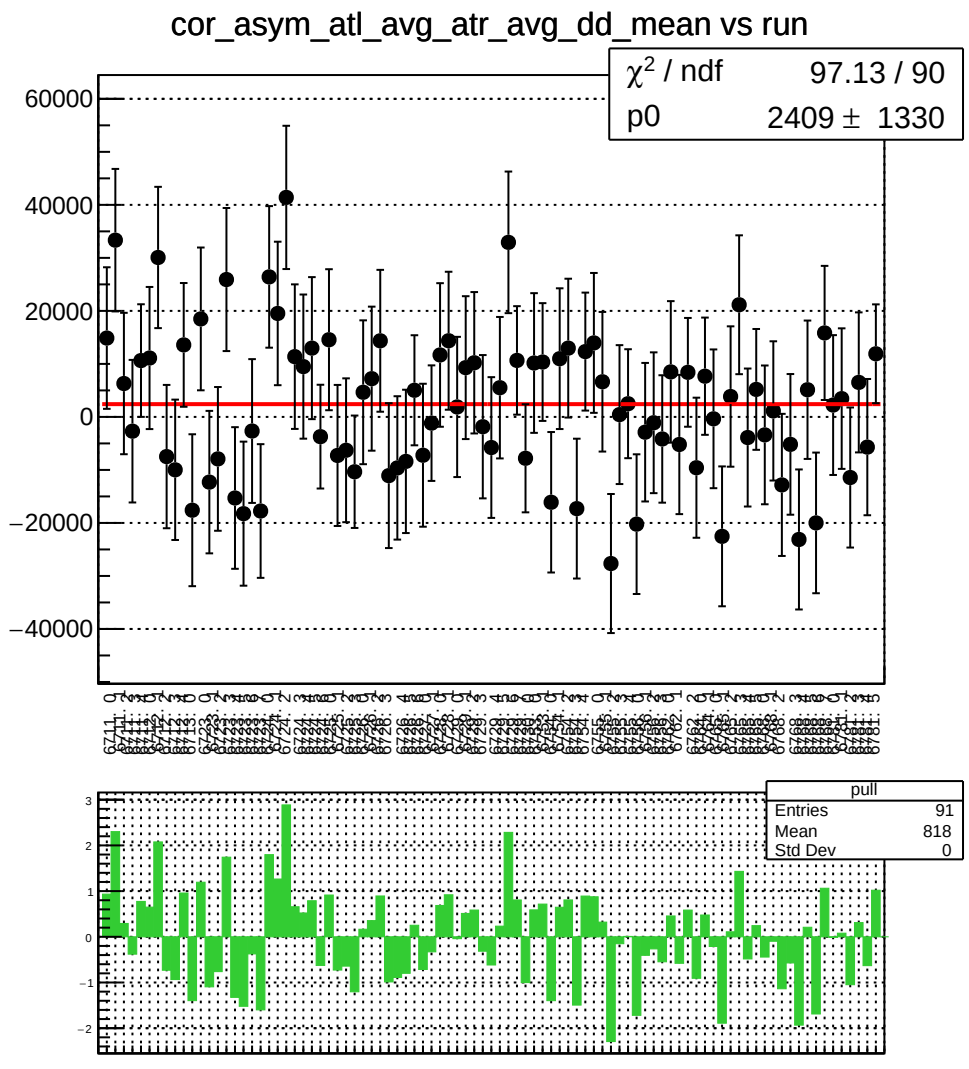

pull1D
Entries 91
Mean −0.007088
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

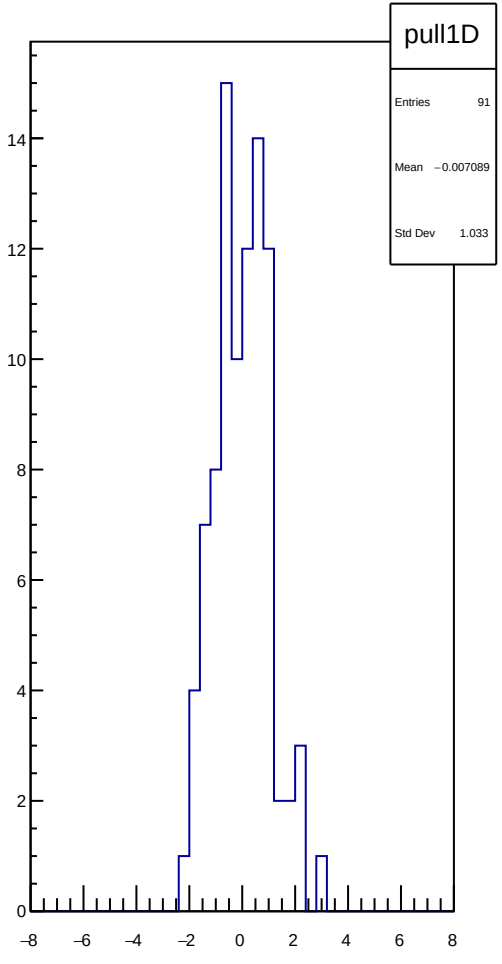

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 306.7 / 90
p0 1263 ± 0.9405
1300
1280
1260
1240
1220

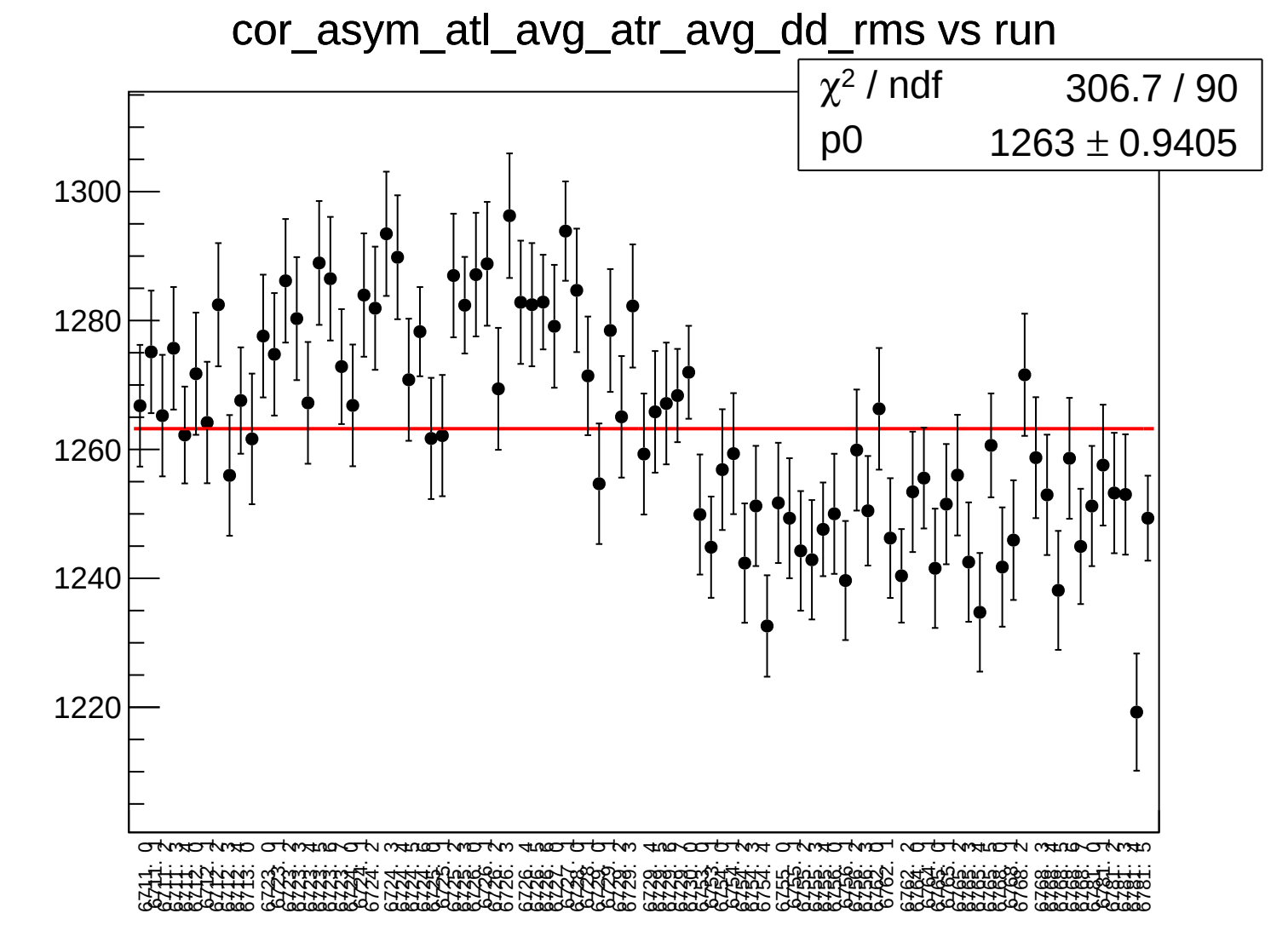

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 97.95 / 90
p0 31.09 ± 307.3
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −173.4
Std Dev 0
2
1
0
−1
−2

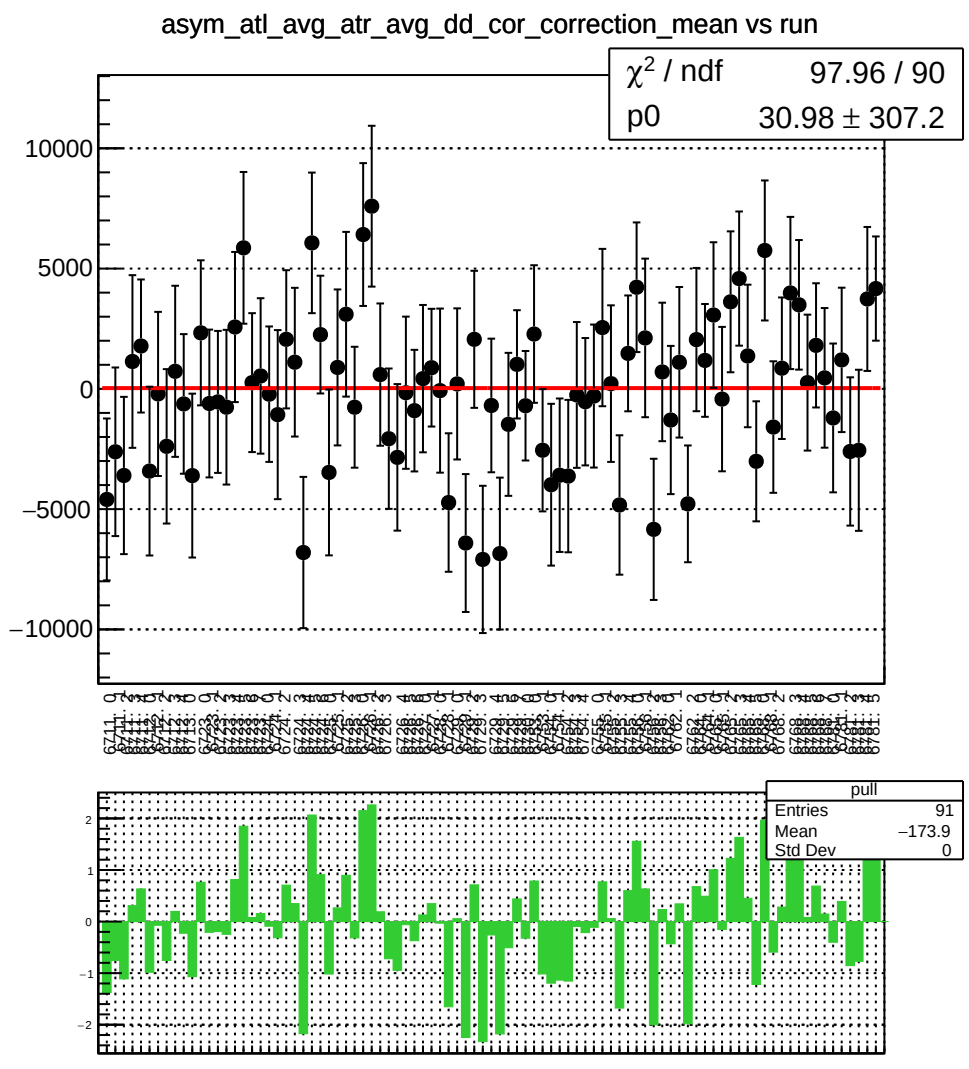

pull1D
Entries 91
Mean −0.01708
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

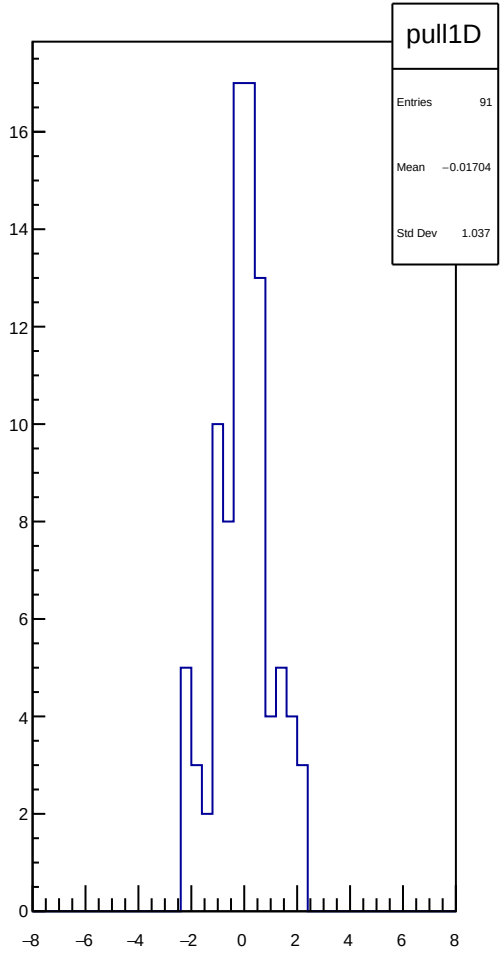

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 8302 / 90
p0 291.2 ± 0.2173
340
320
300
280
260
240

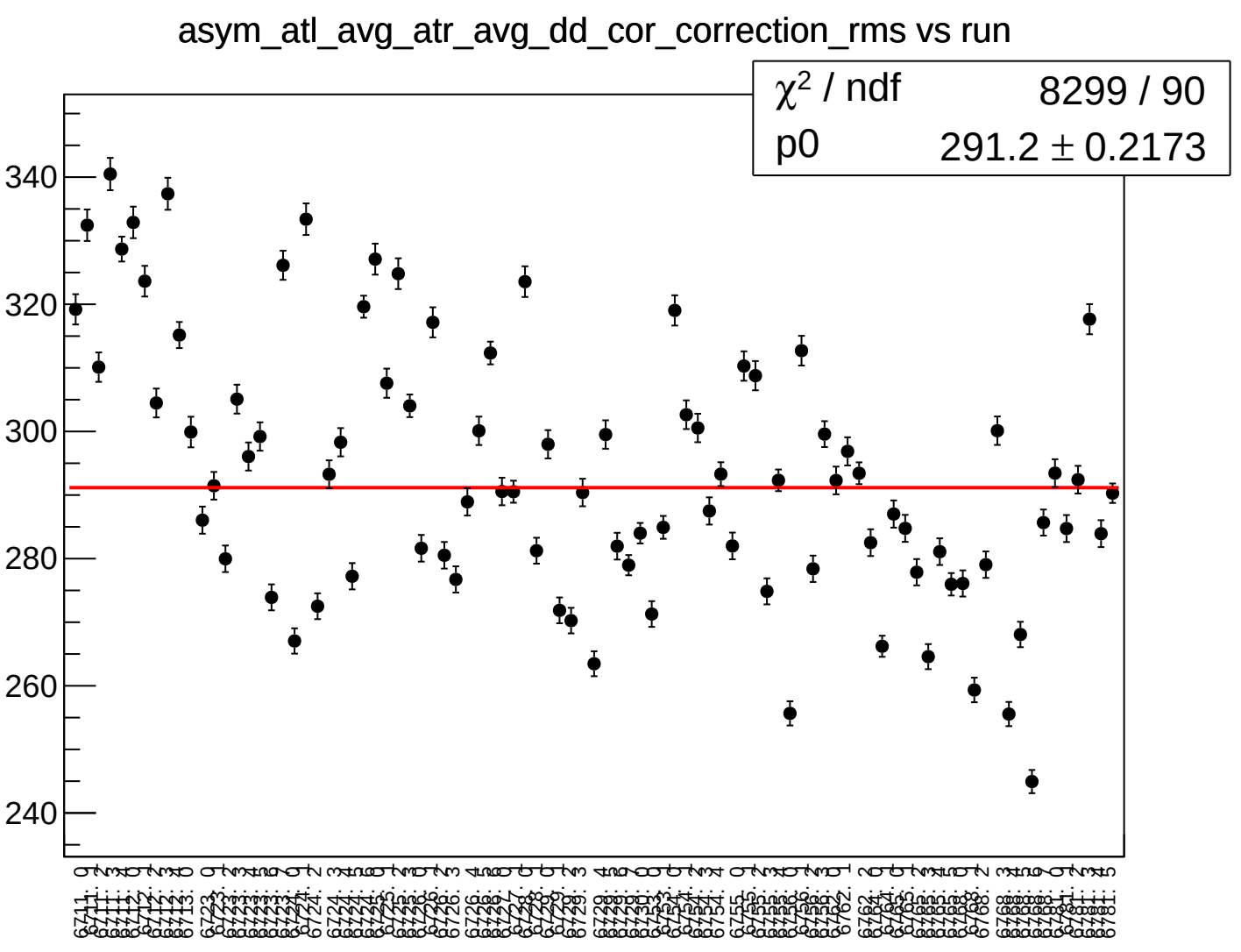

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 97.13 / 90
p0 2409 ± 1330
pull
Entries 91
Mean 818
Std Dev 0

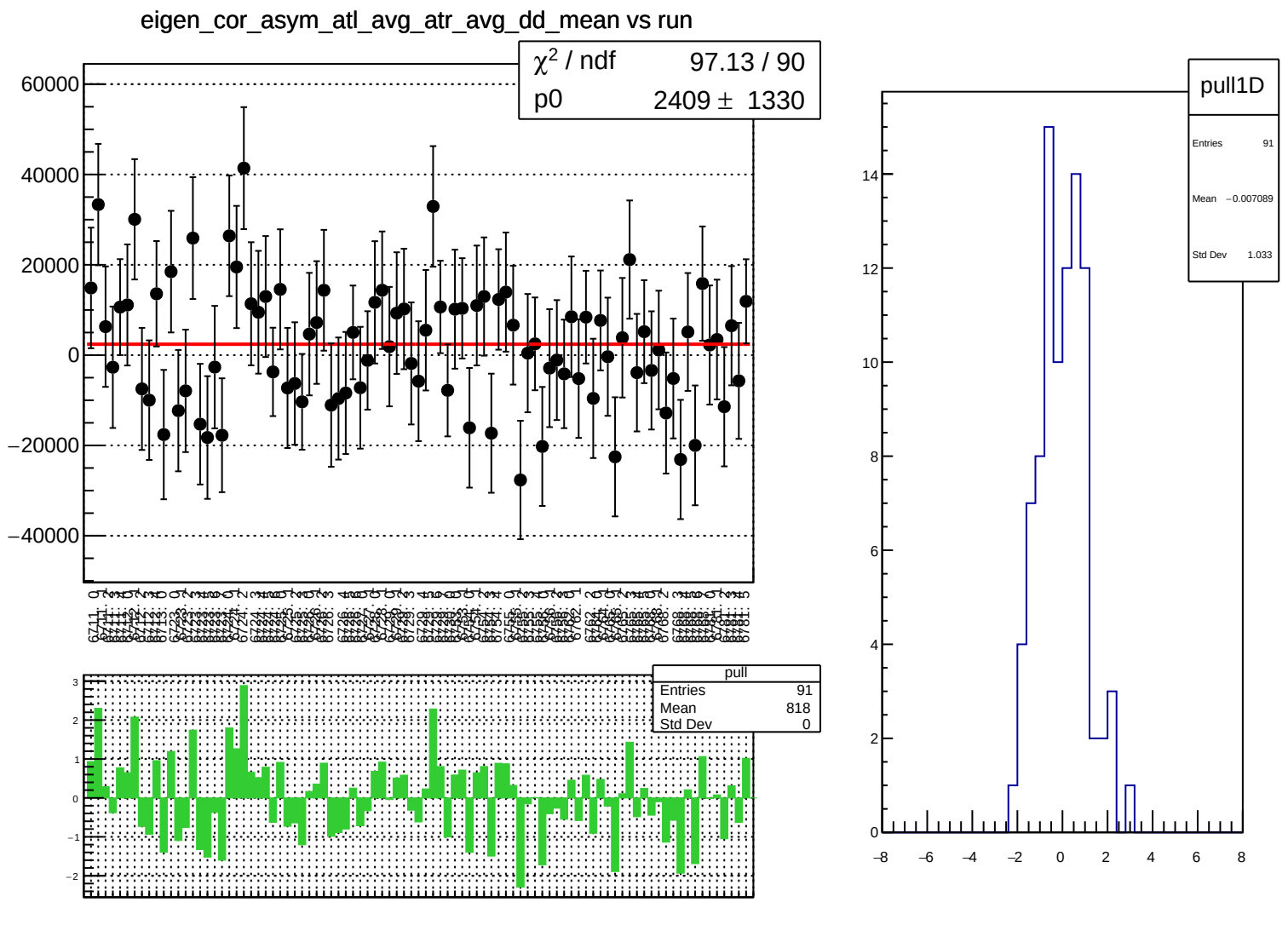

pull1D
Entries 91
Mean −0.007089
Std Dev 1.033

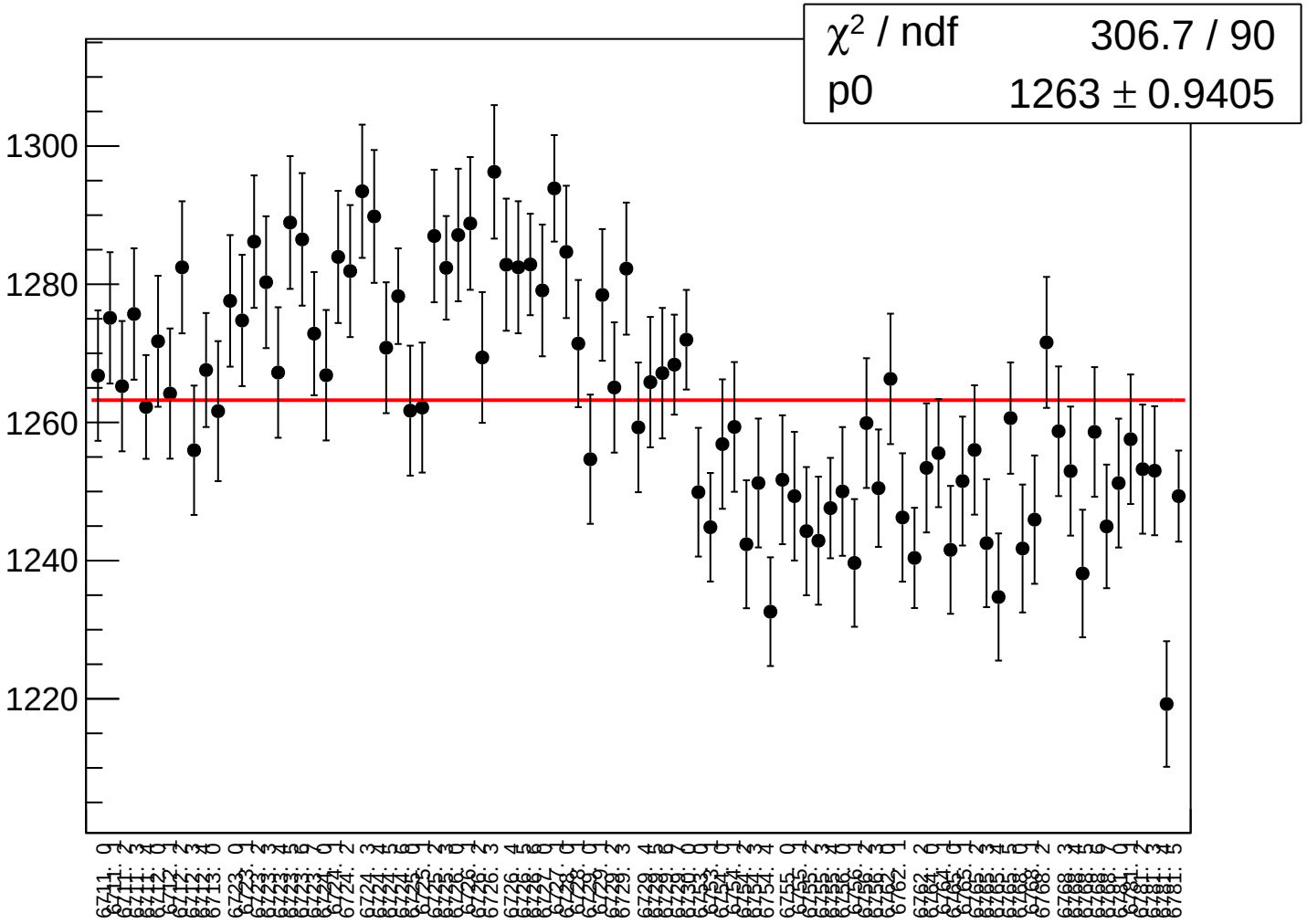

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 306.7 / 90
p0 1263 ± 0.9405
1300
1280
1260
1240
1220

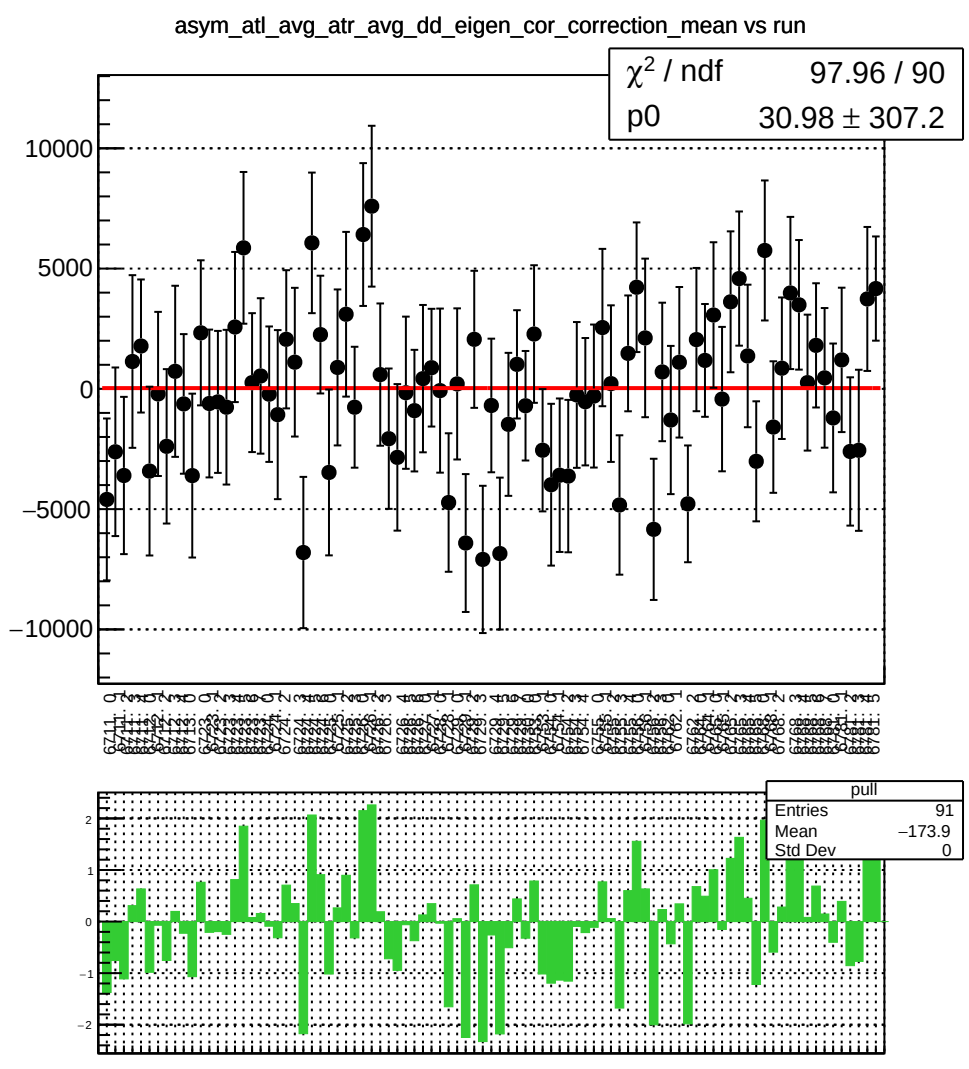

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 97.96 / 90
p0 30.98 ± 307.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −173.9
Std Dev 0
2
1
0
−1
−2

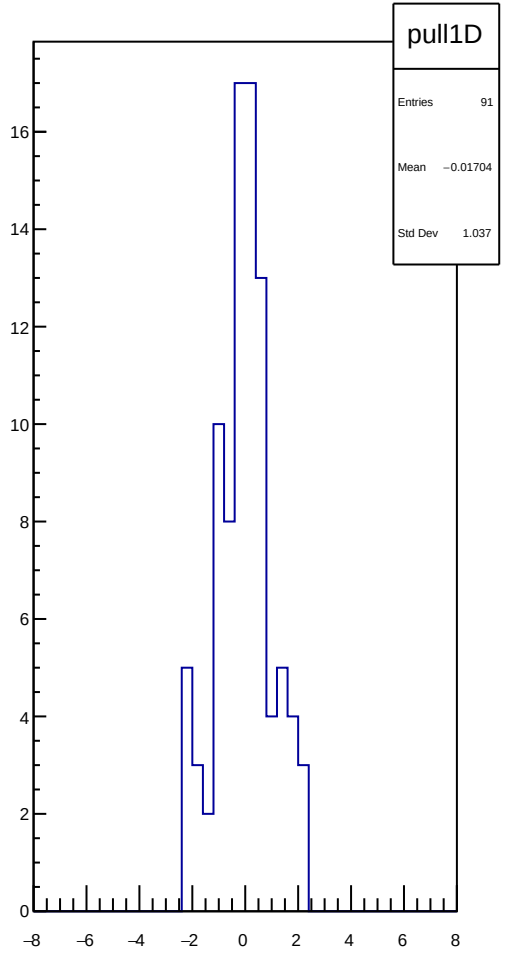

pull1D
Entries 91
Mean −0.01704
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

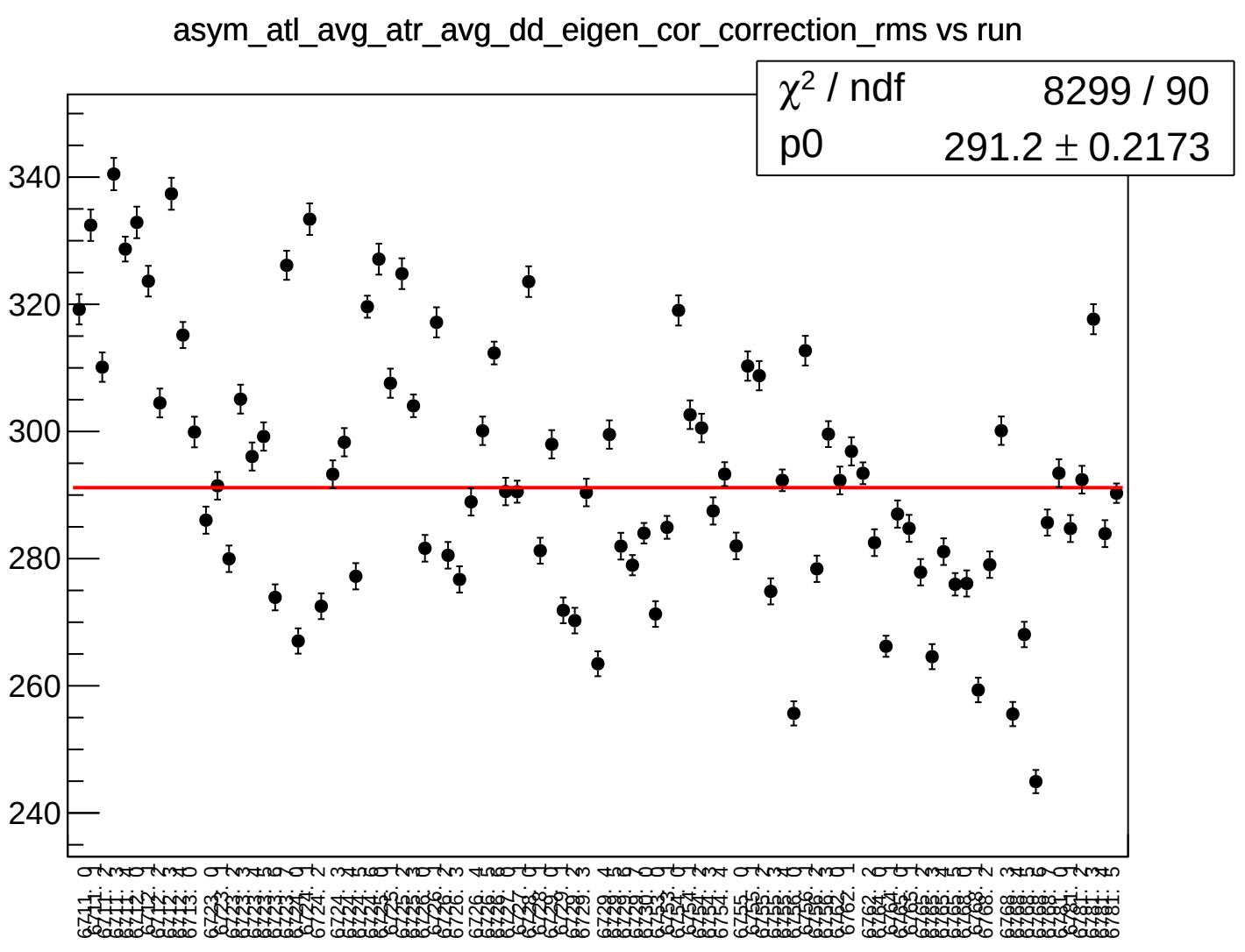

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 8299 / 90
p0 291.2 ± 0.2173
340
320
300
280
260
240

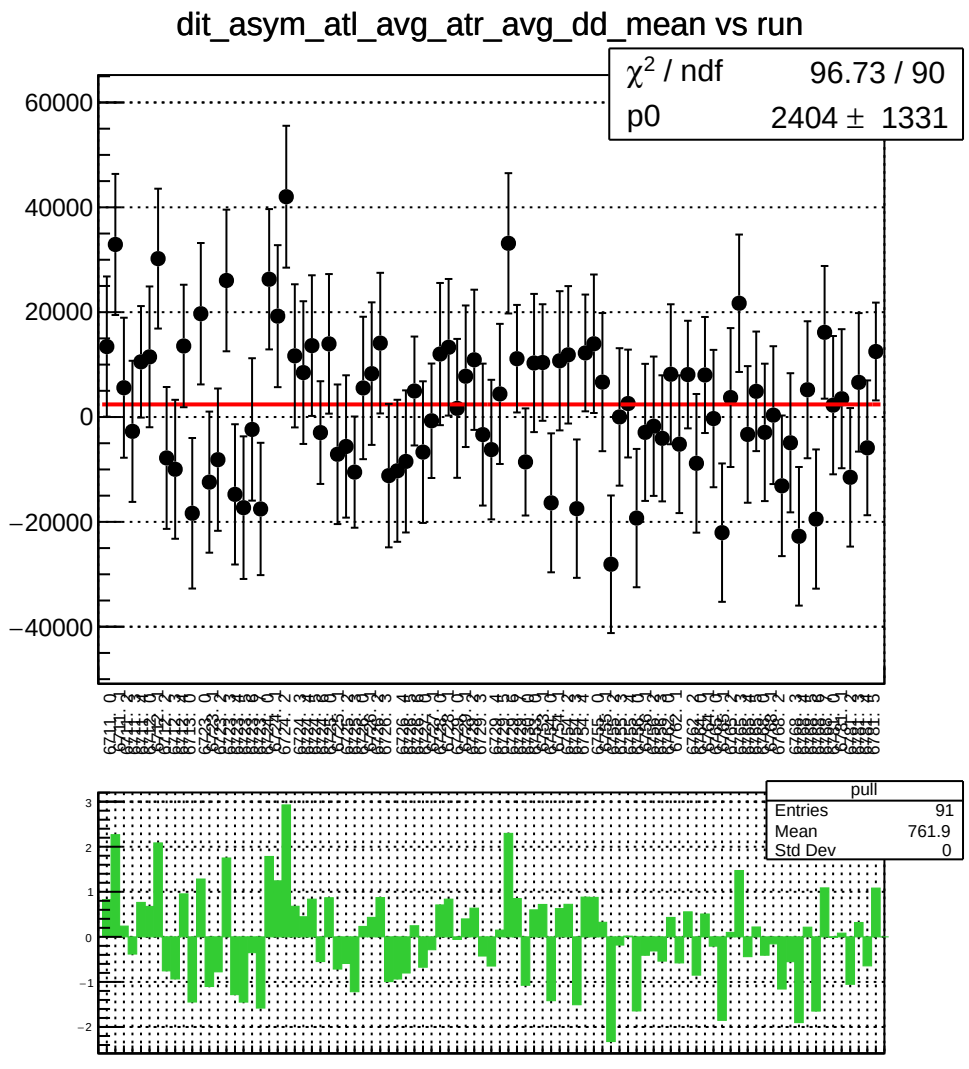

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 97.13 / 90
p0 2409 ± 1330
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 818
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.007089
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

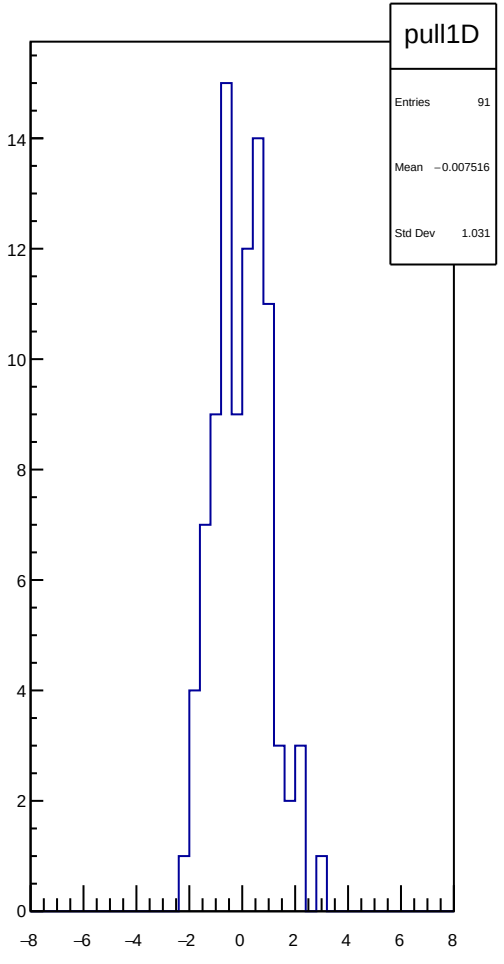

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 306.7 / 90
p0 1263 ± 0.9405
1300
1280
1260
1240
1220

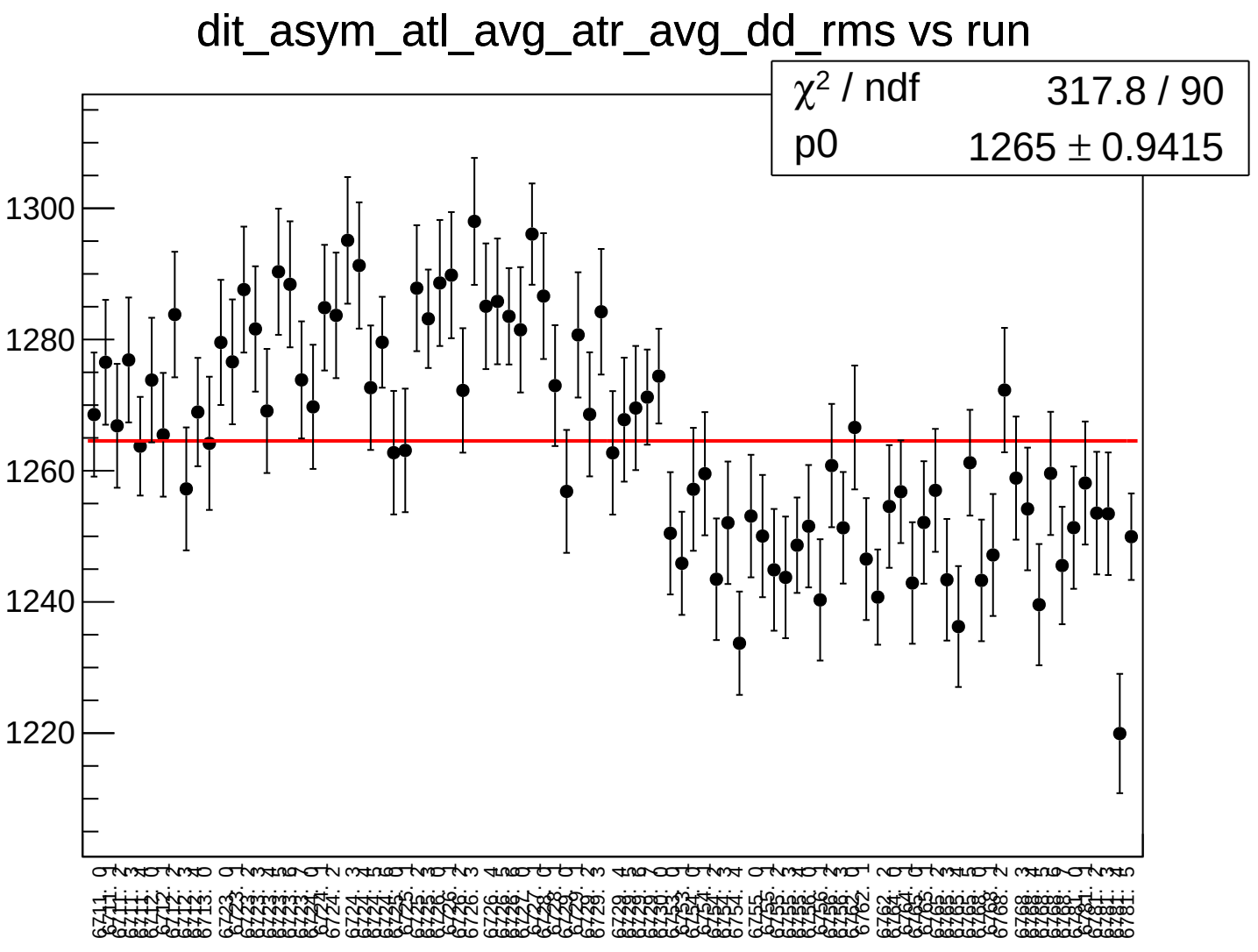

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.96 / 90
p0 30.98 ± 307.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −173.9
Std Dev 0
2
1
0
−1
−2

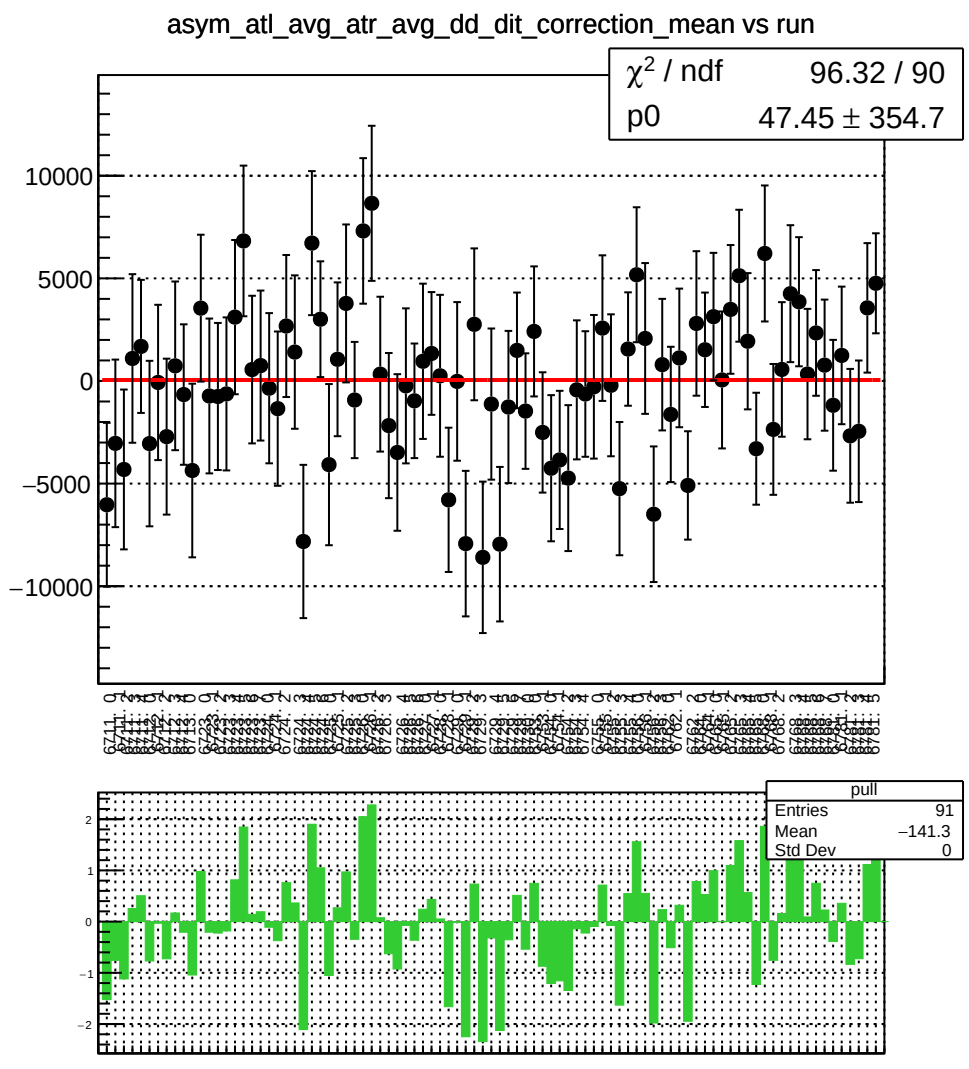

pull1D
Entries 91
Mean −0.01704
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

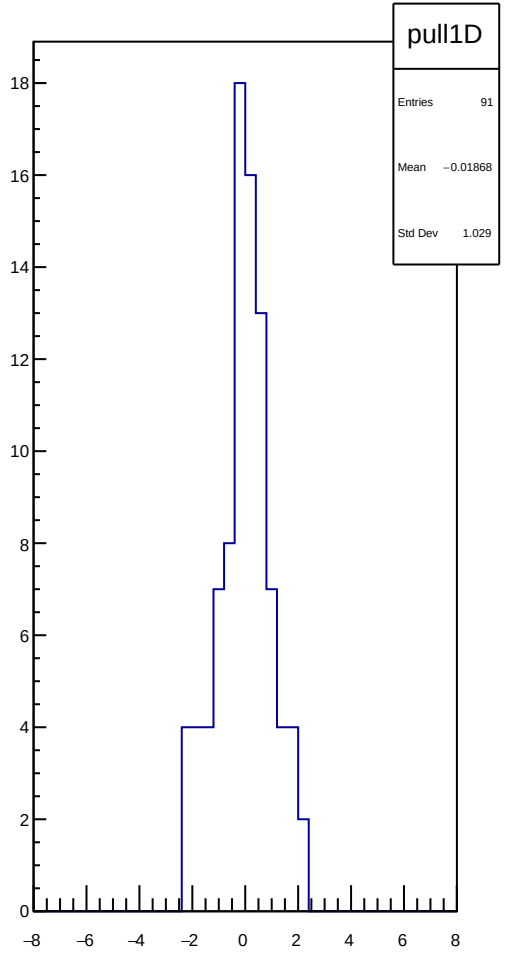

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 8299 / 90
p0 291.2 ± 0.2173
340
320
300
280
260
240

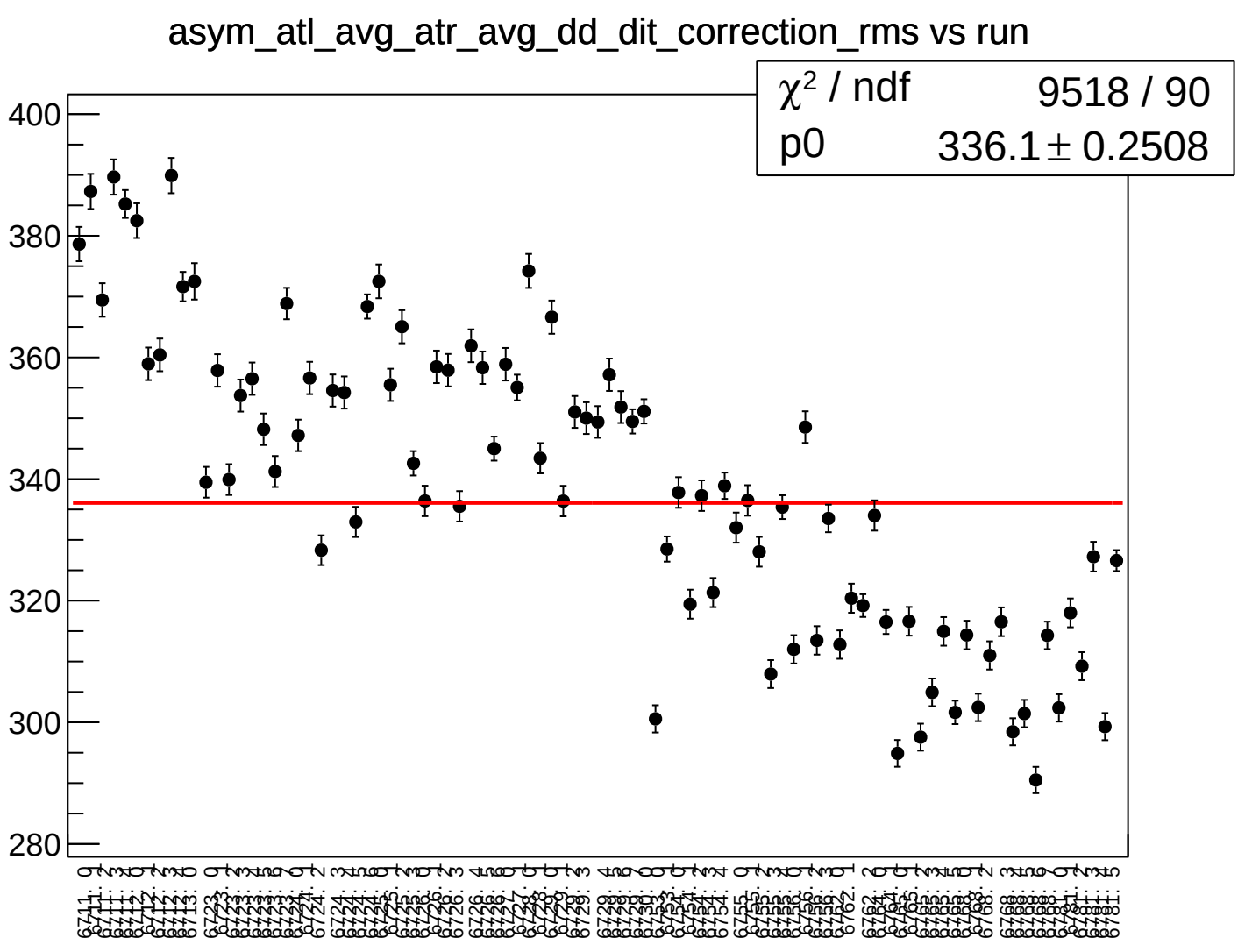

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 96.73 / 90
p0 2404 ± 1331
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 761.9
Std Dev 0
3
2
1
0
−1
−2

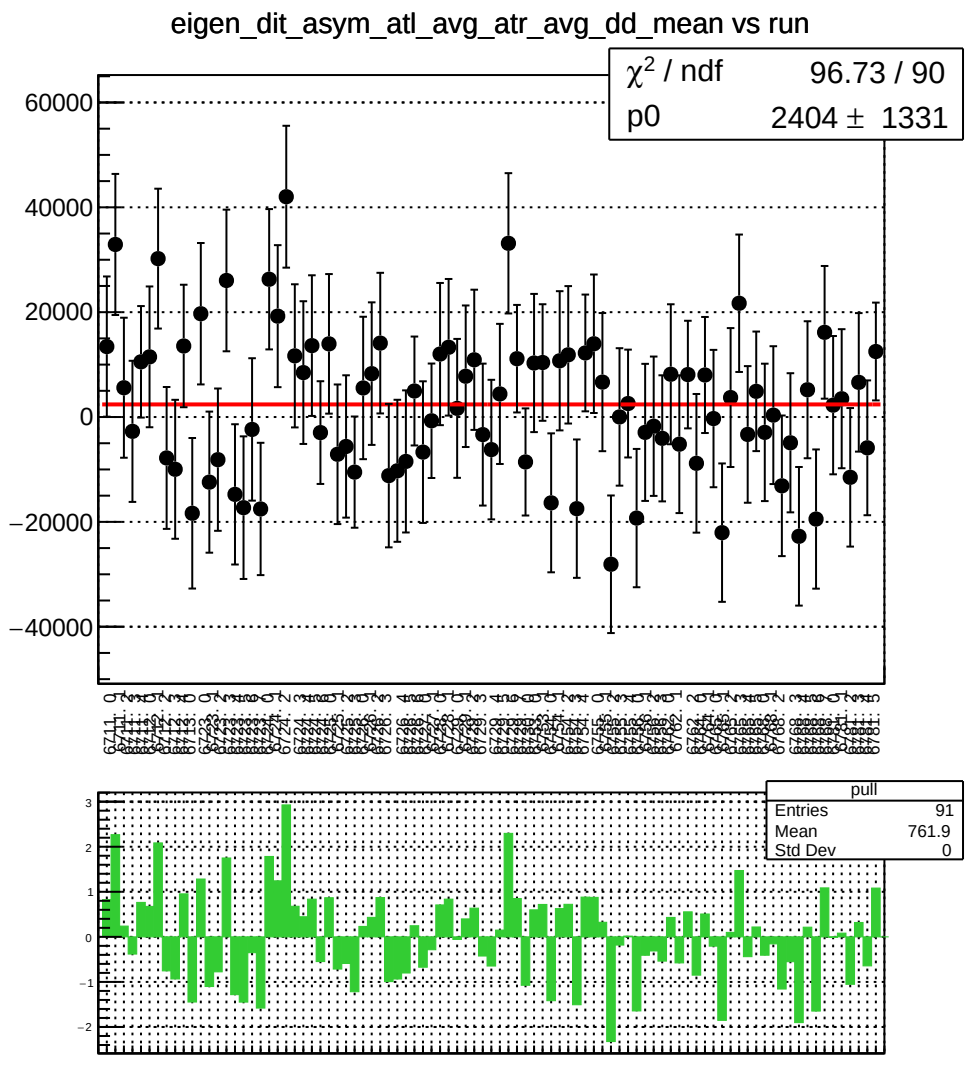

pull1D
Entries 91
Mean −0.007516
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

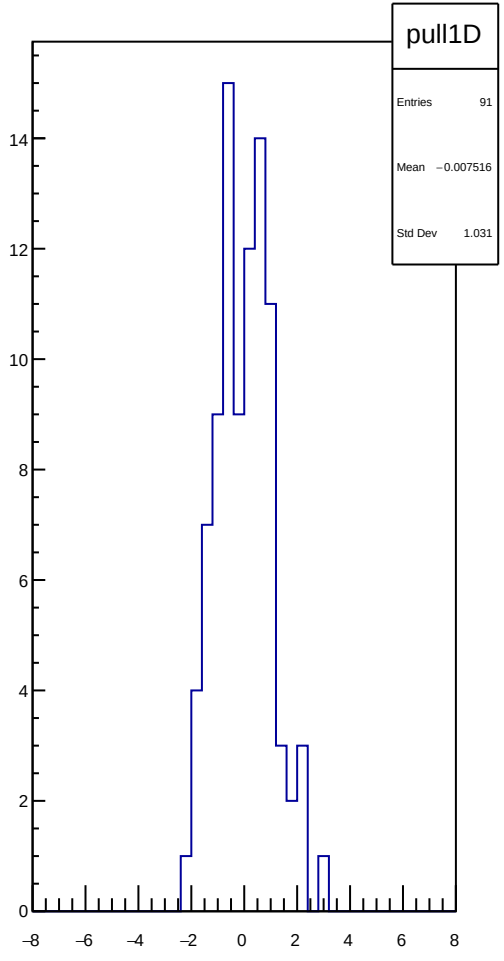

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 317.8 / 90
p0 1265 ± 0.9415
1300
1280
1260
1240
1220

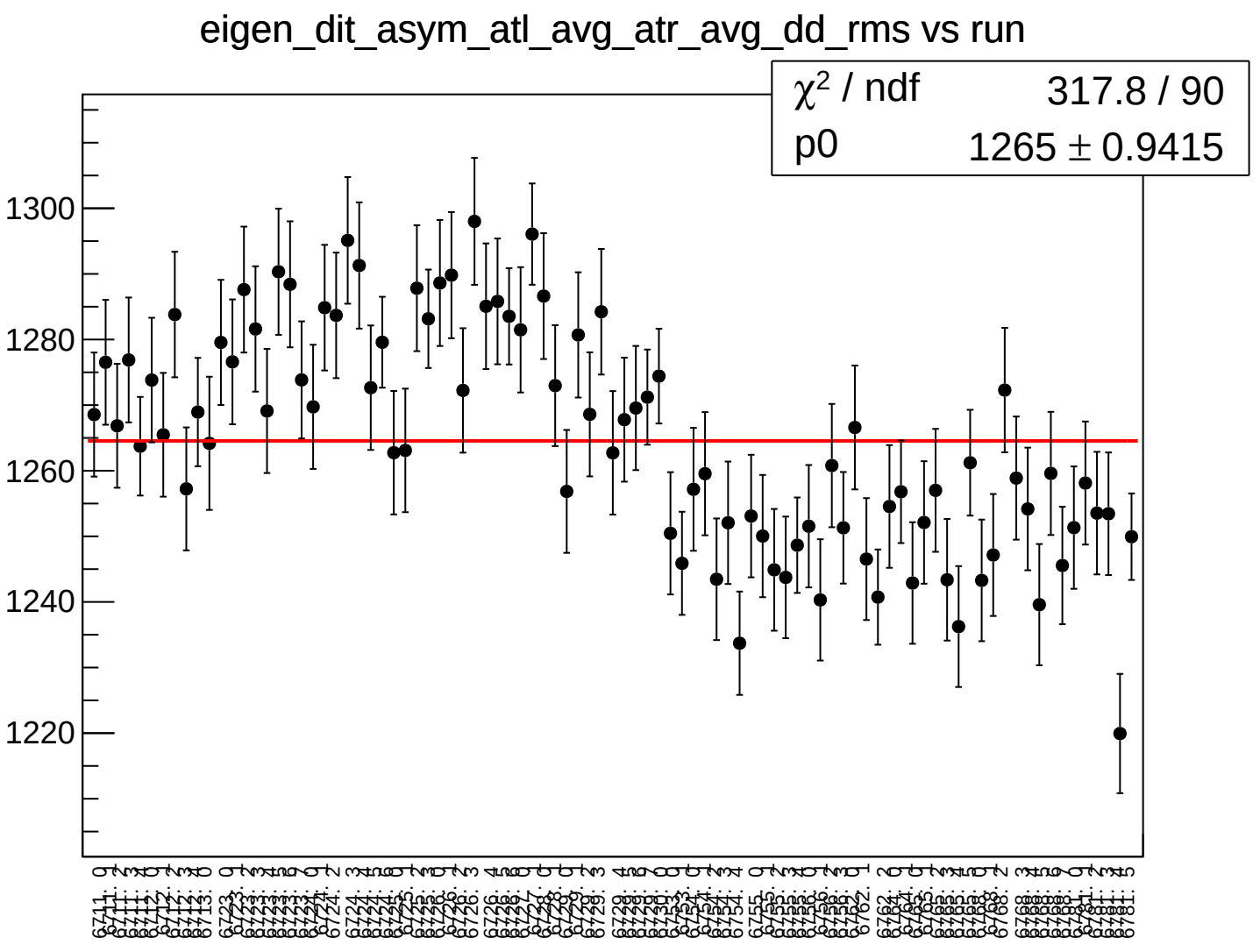

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 96.32 / 90
p0 47.45 ± 354.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −141.3
Std Dev 0
2
1
0
−1
−2

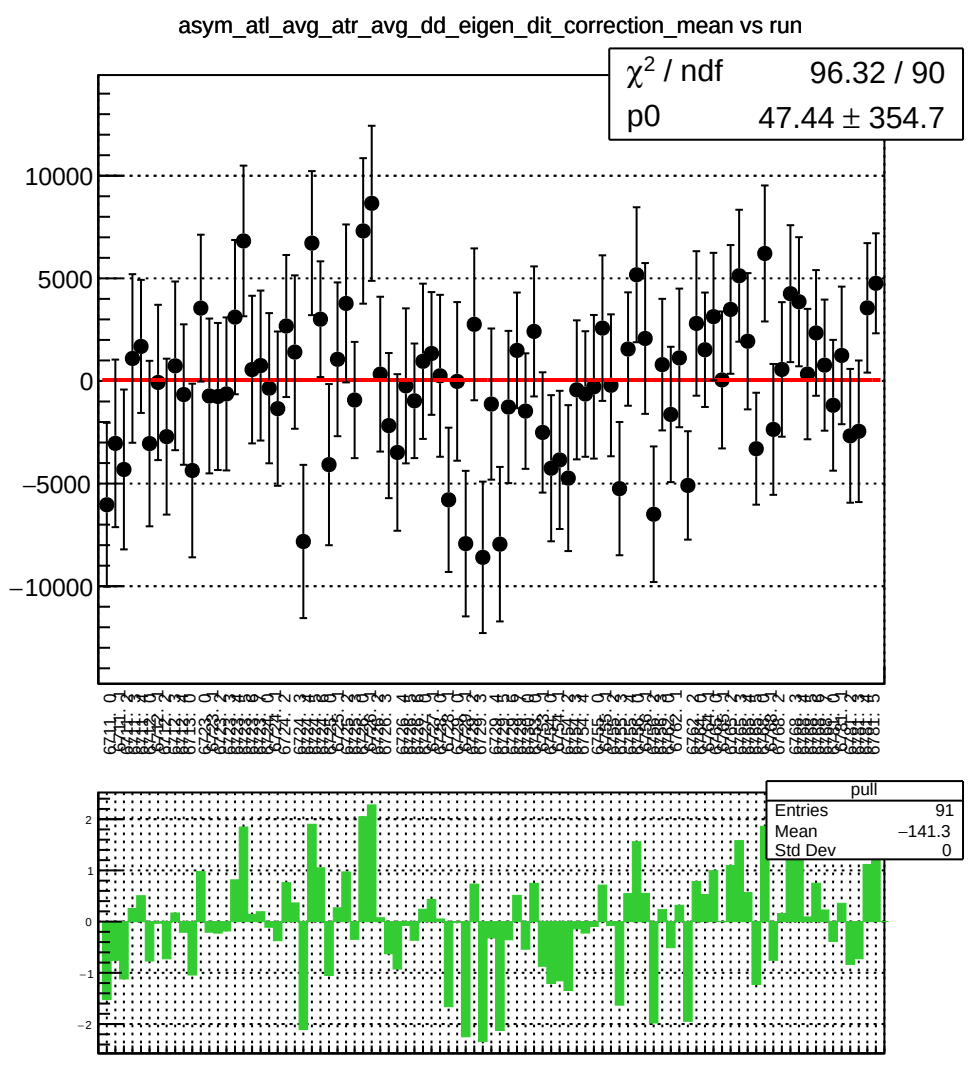

pull1D
Entries 91
Mean −0.01868
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

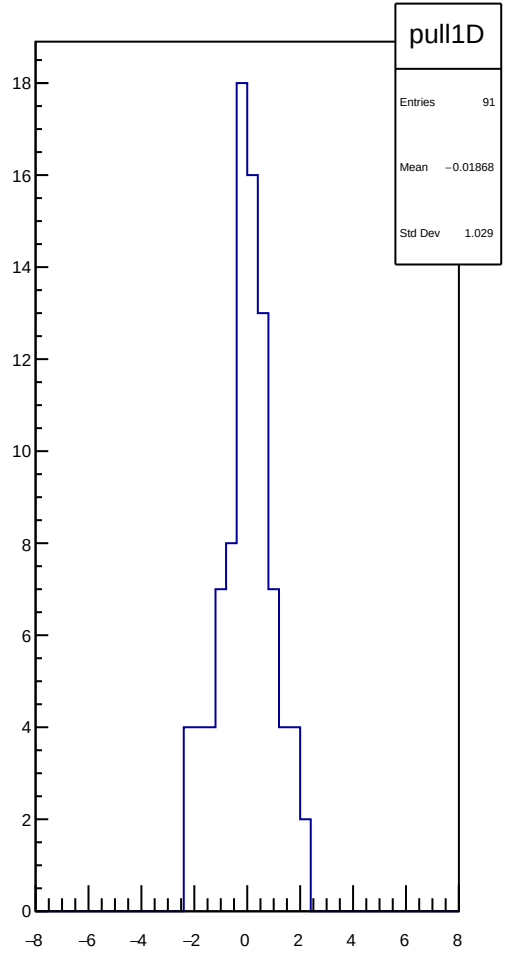

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 9518 / 90
p0 336.1 ± 0.2508
400
380
360
340
320
300
280

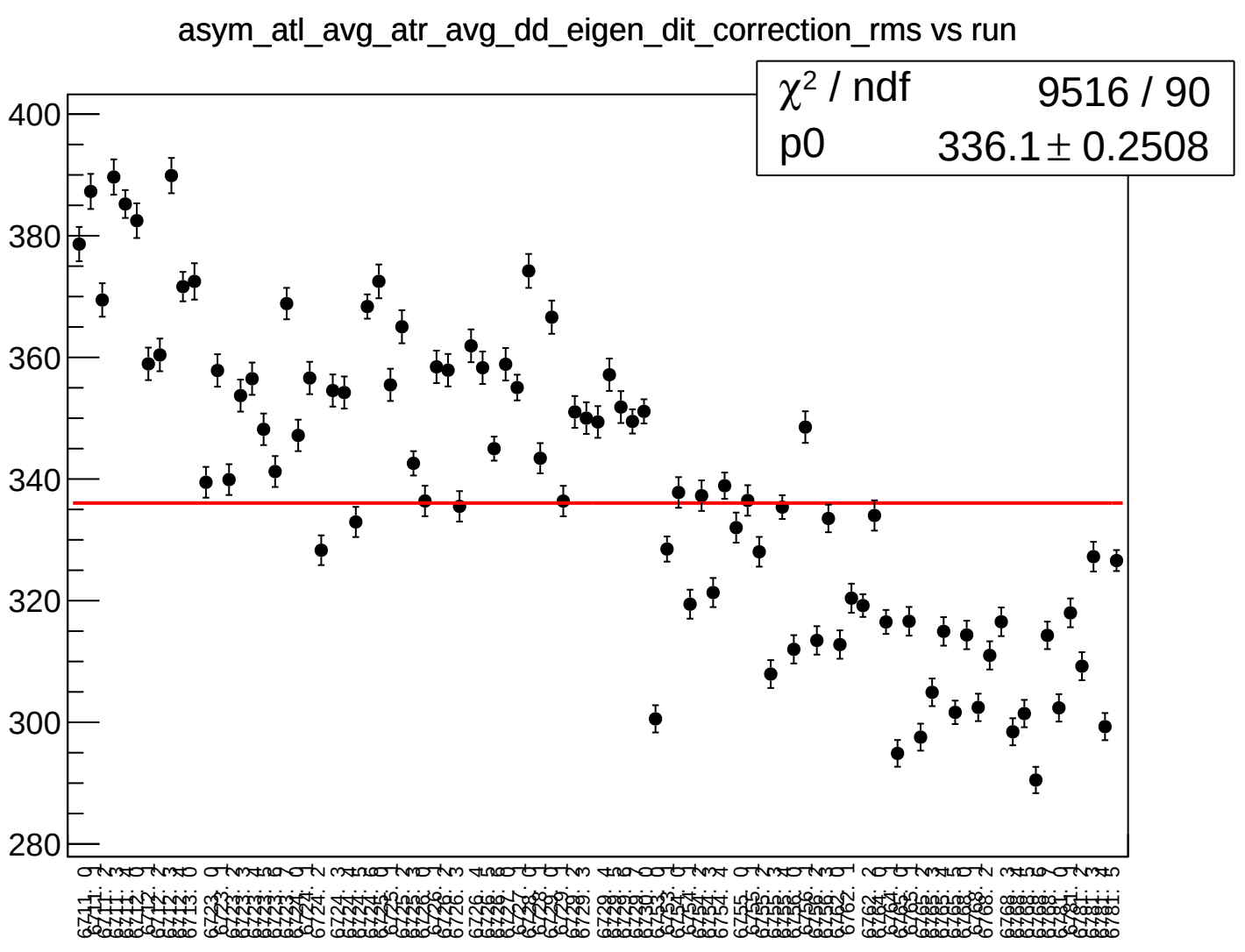

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 96.73 / 90
p0 2404 ± 1331
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 761.9
Std Dev 0
3
2
1
0
−1
−2

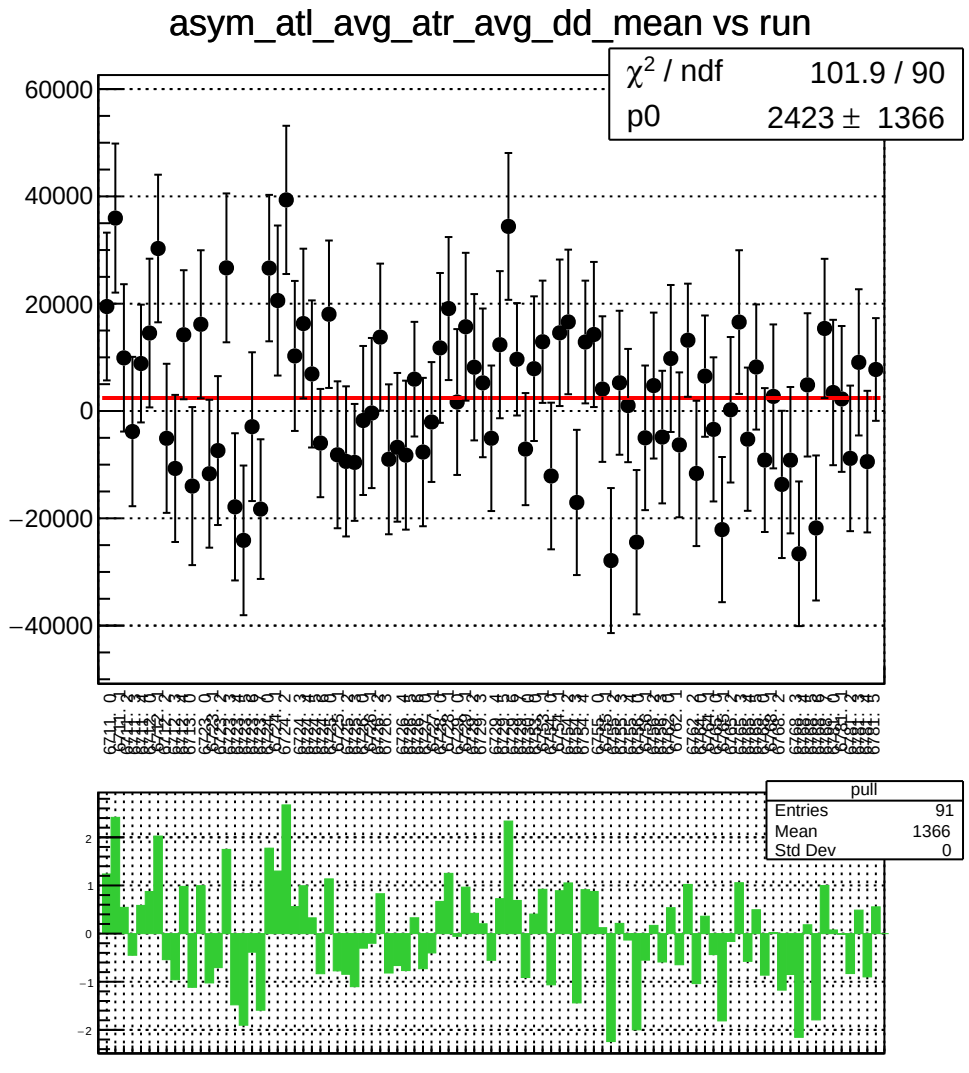

pull1D
Entries 91
Mean −0.007516
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

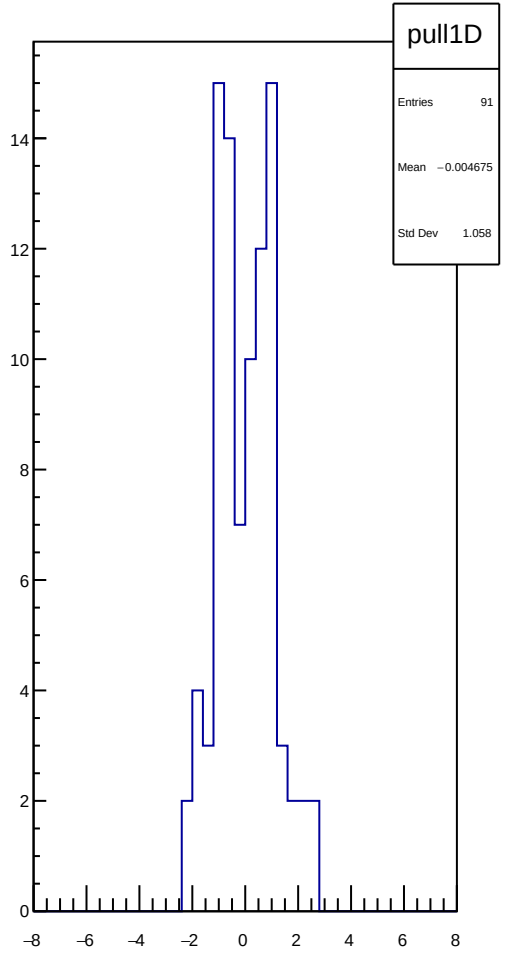

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 317.8 / 90
p0 1265 ± 0.9415
1300
1280
1260
1240
1220

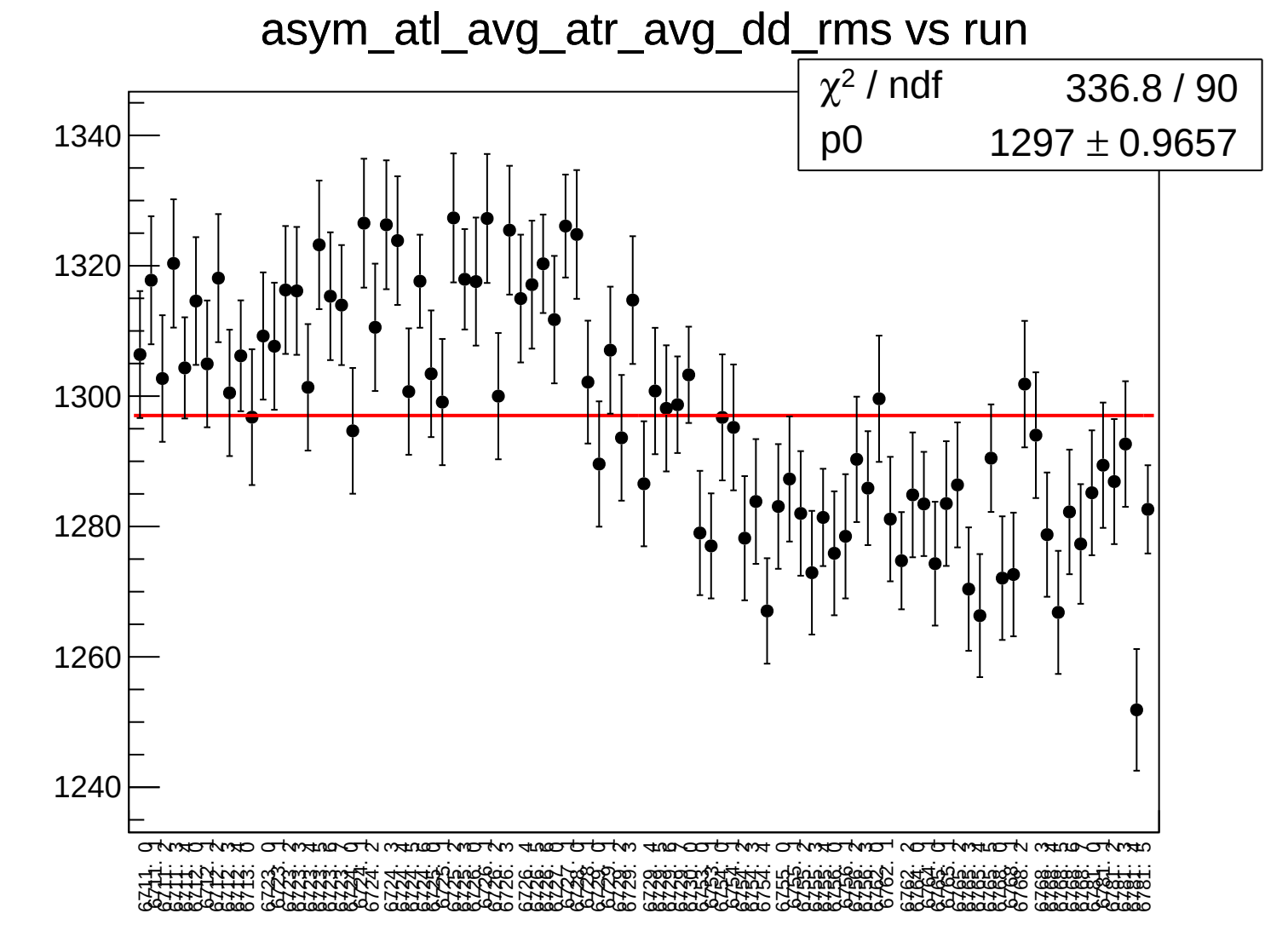

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 96.32 / 90
p0 47.44 ± 354.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −141.3
Std Dev 0
2
1
0
−1
−2

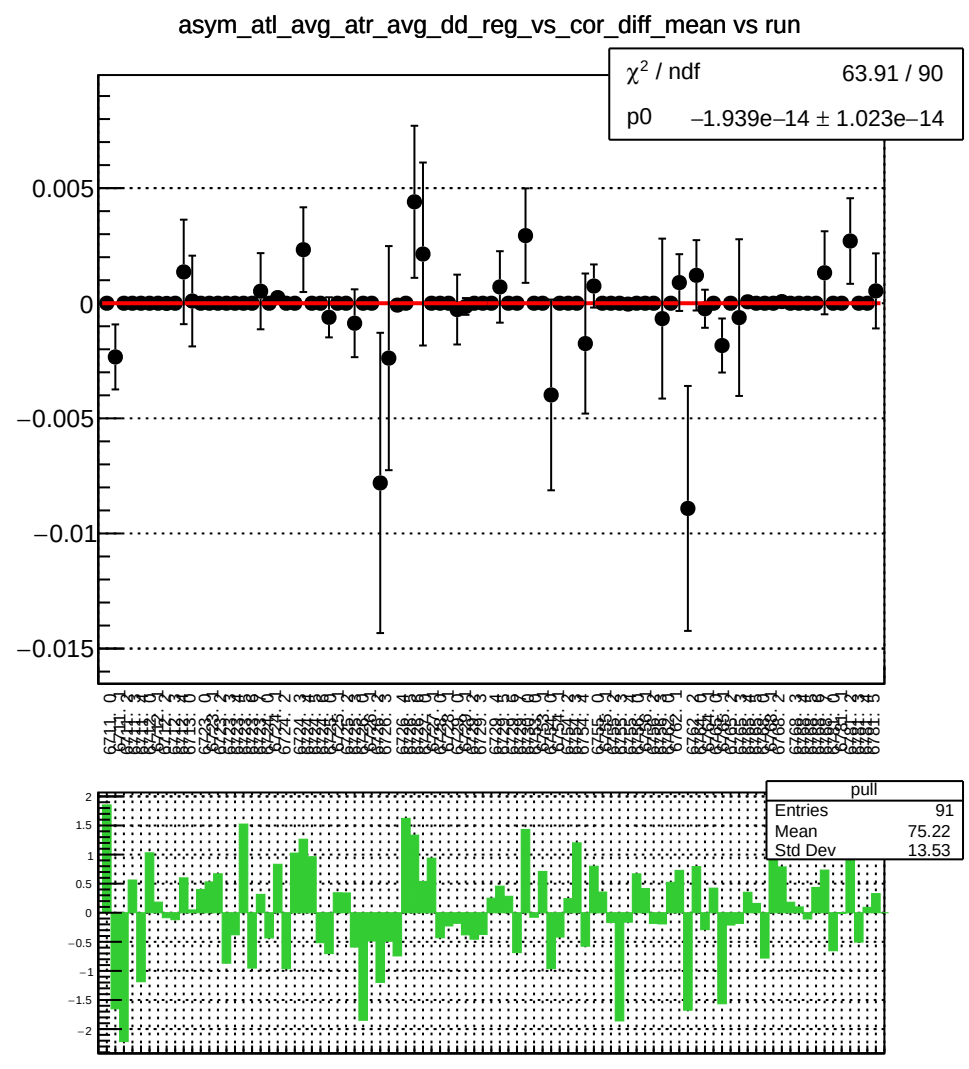

pull1D
Entries 91
Mean −0.01868
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

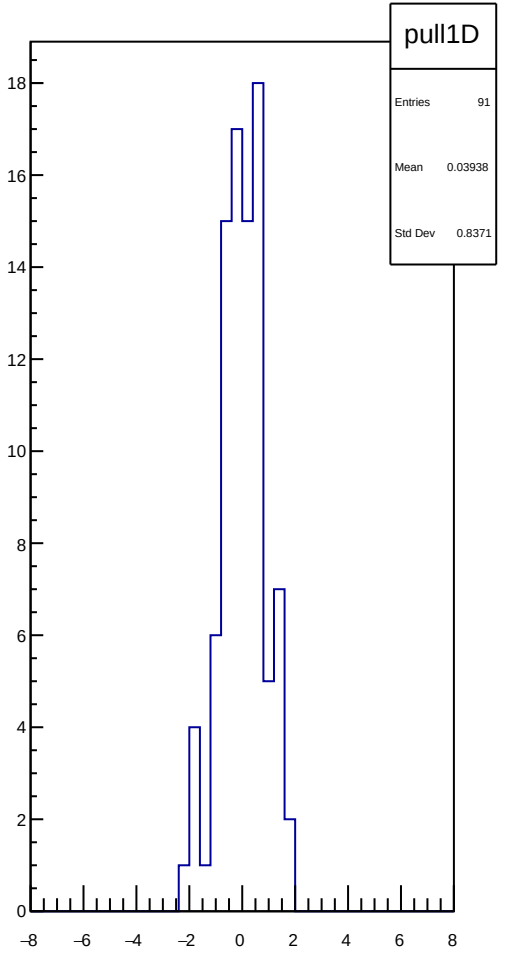

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 9516 / 90
p0 336.1 ± 0.2508
400
380
360
340
320
300
280

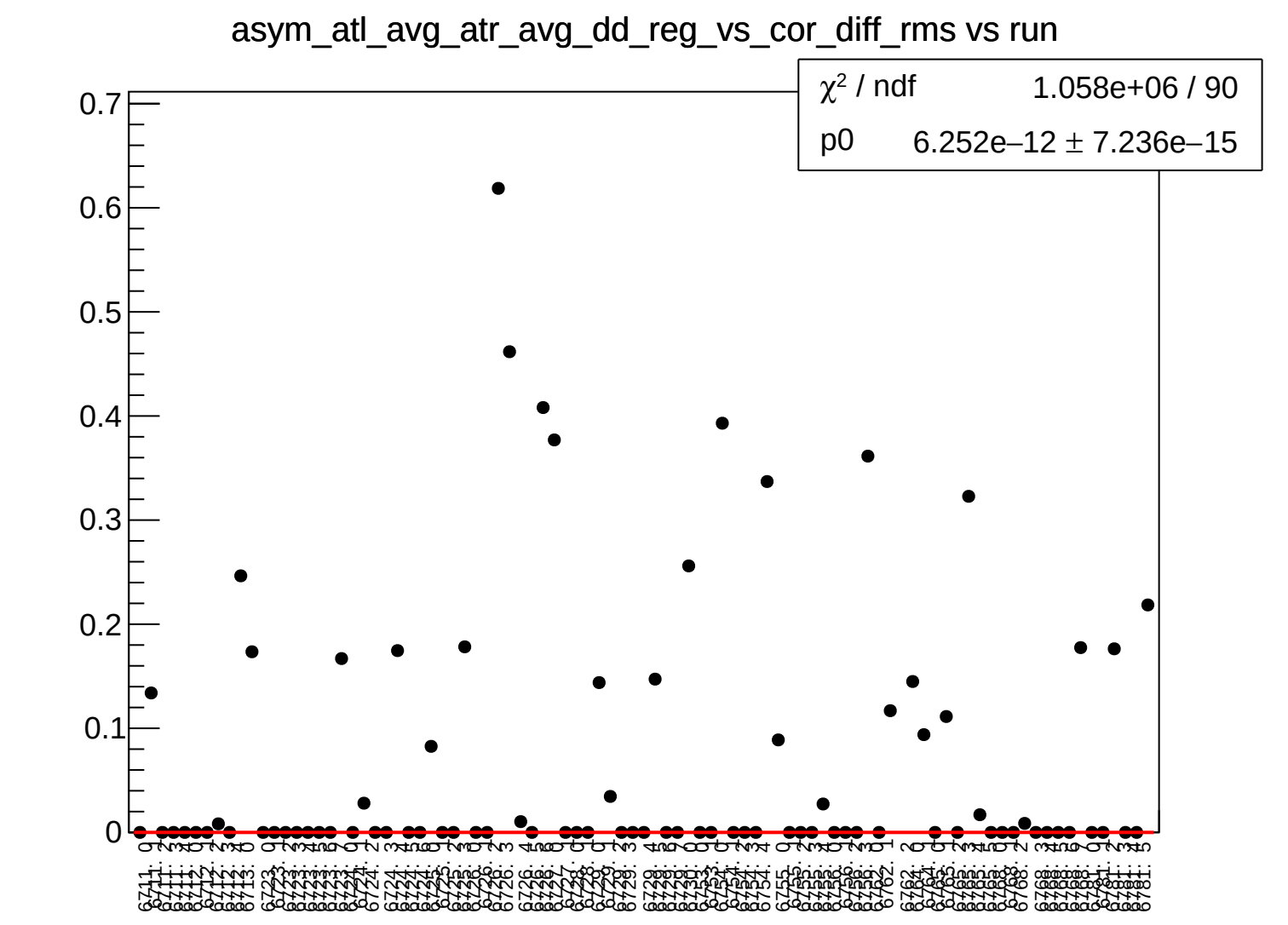

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 101.9 / 90
p0 2423 ± 1366
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 1366
Std Dev 0
2
1
0
−1
−2

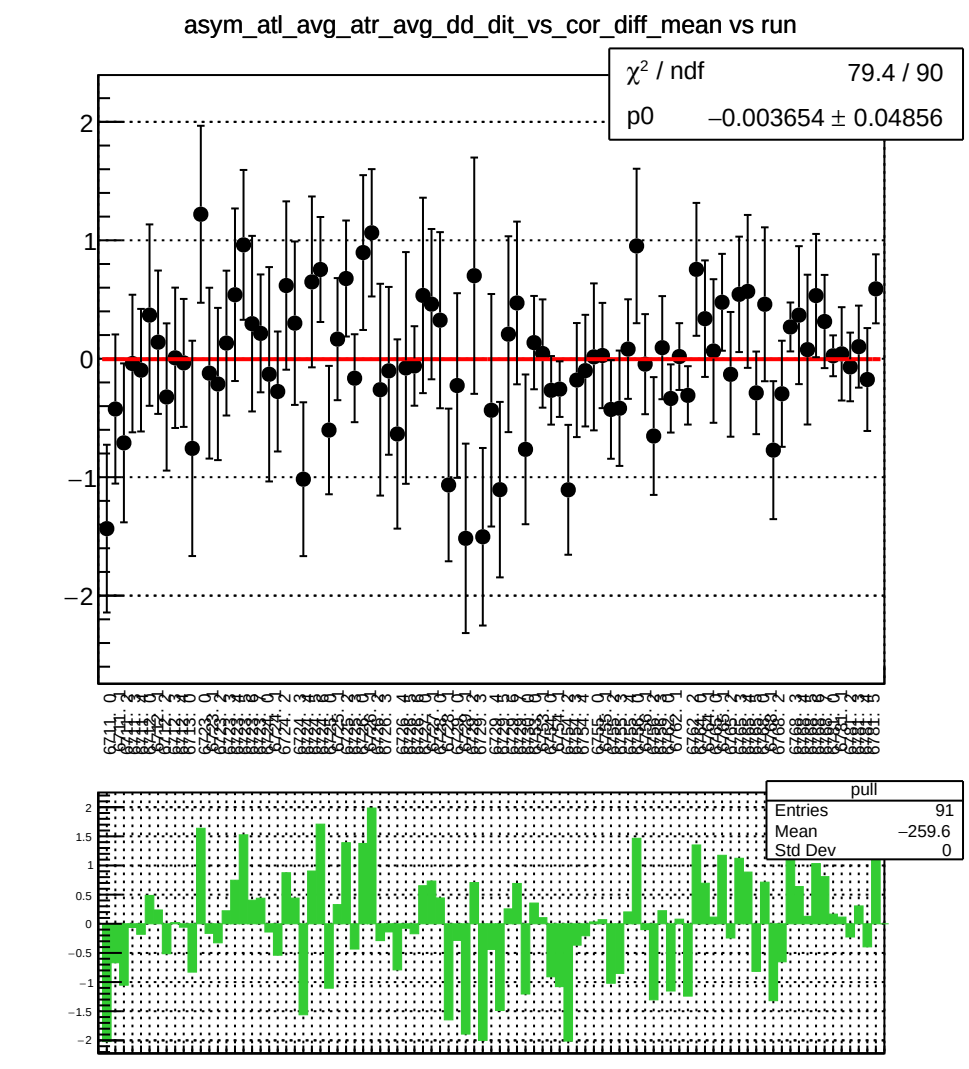

pull1D
Entries 91
Mean −0.004675
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

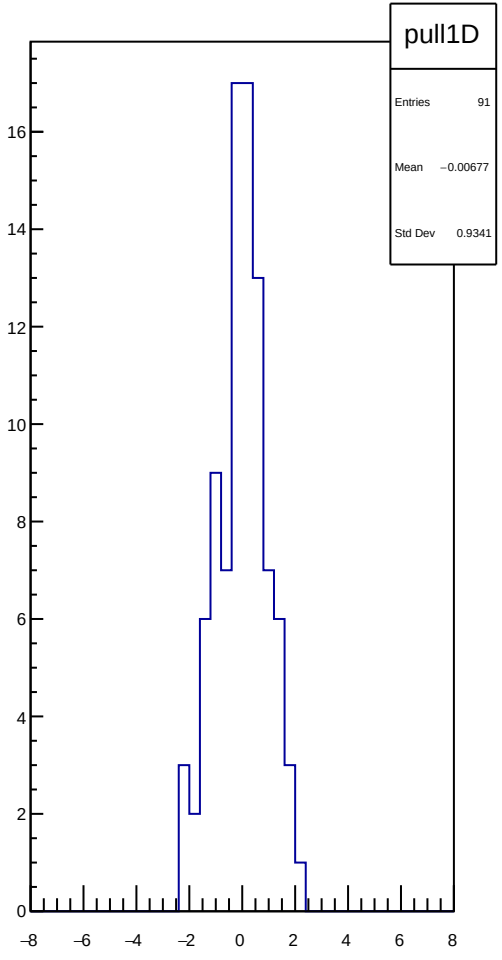

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 336.8 / 90
p0 1297 ± 0.9657
1340
1320
1300
1280
1260
1240

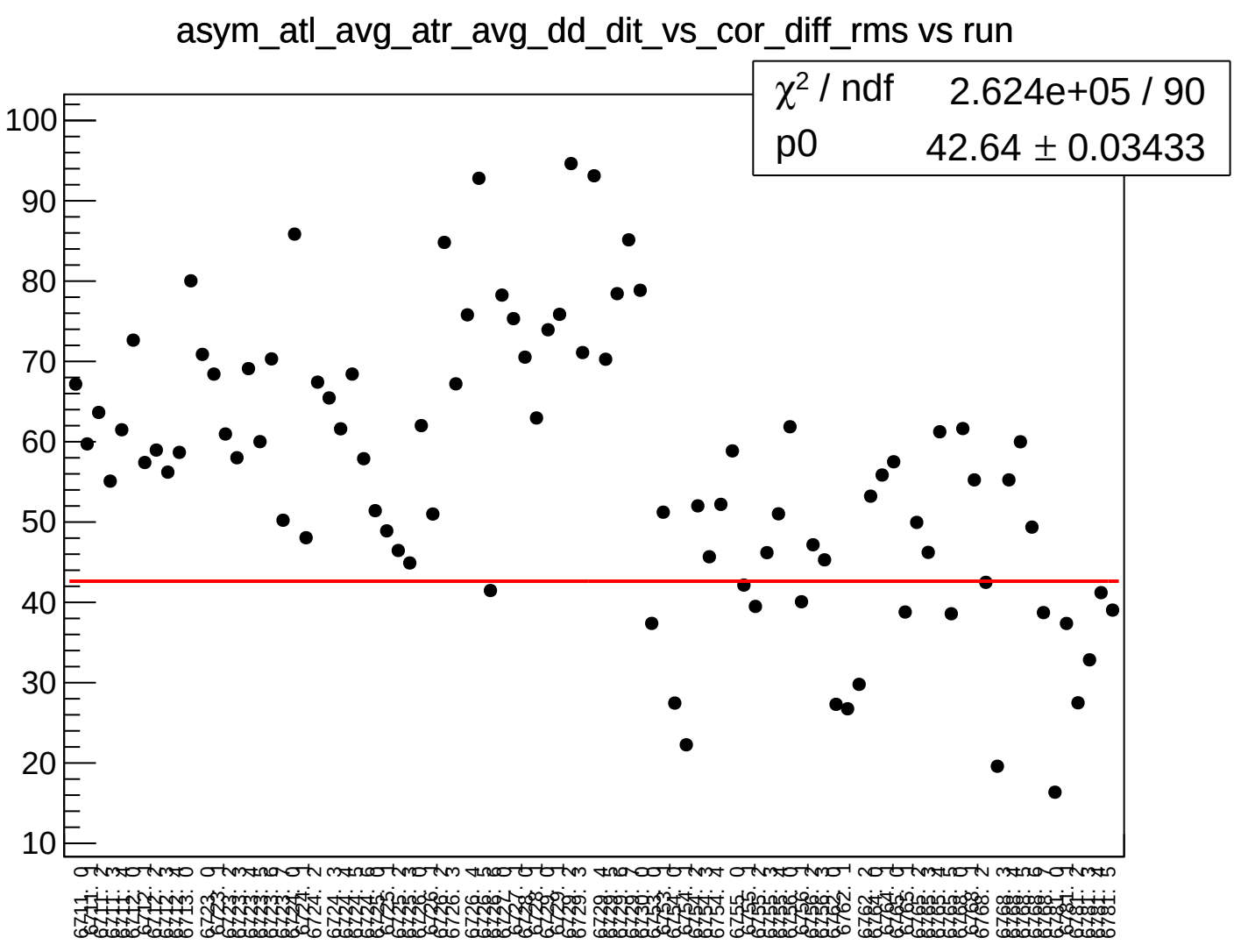

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 63.91 / 90
p0 −1.939e−14 ± 1.023e−14
0.005
0
−0.005
−0.01
−0.015
pull
Entries 91
Mean 75.22
Std Dev 13.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

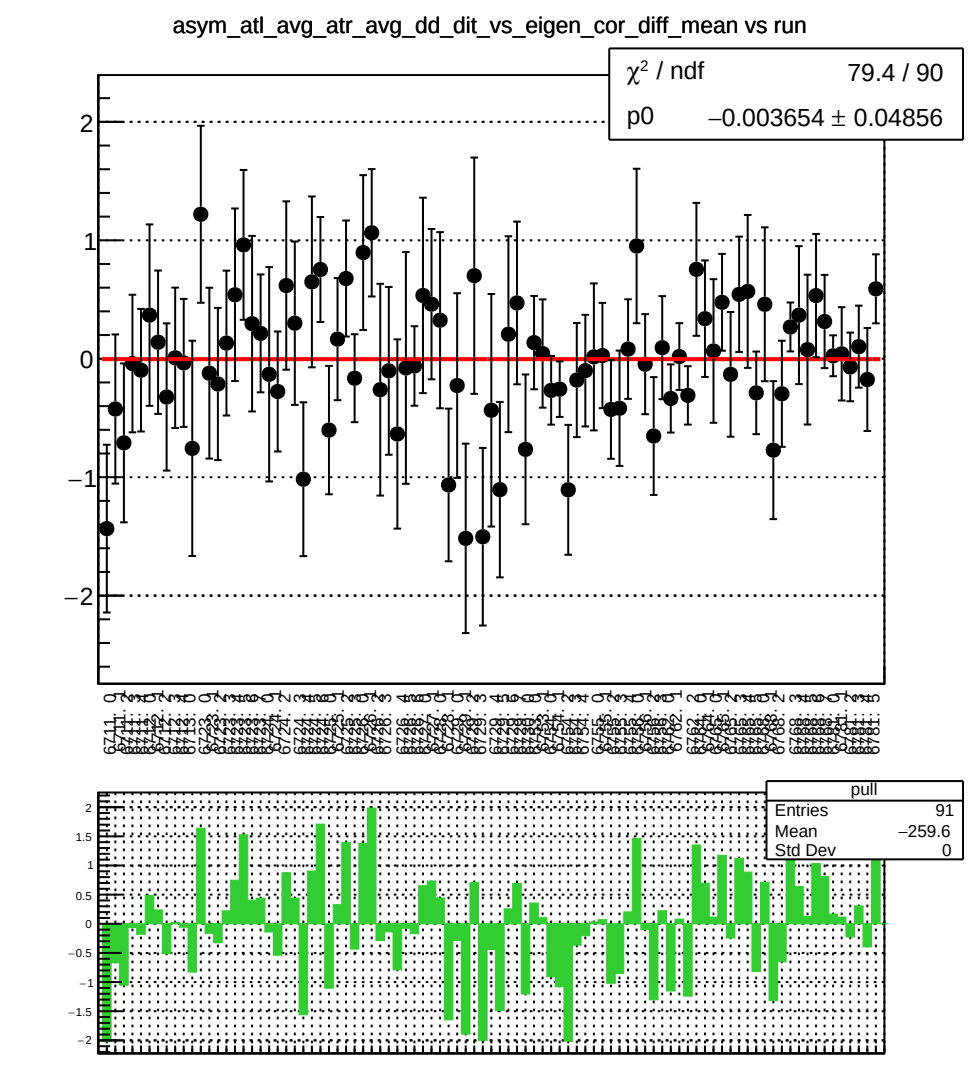

pull1D
Entries 91
Mean 0.03938
Std Dev 0.8371
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

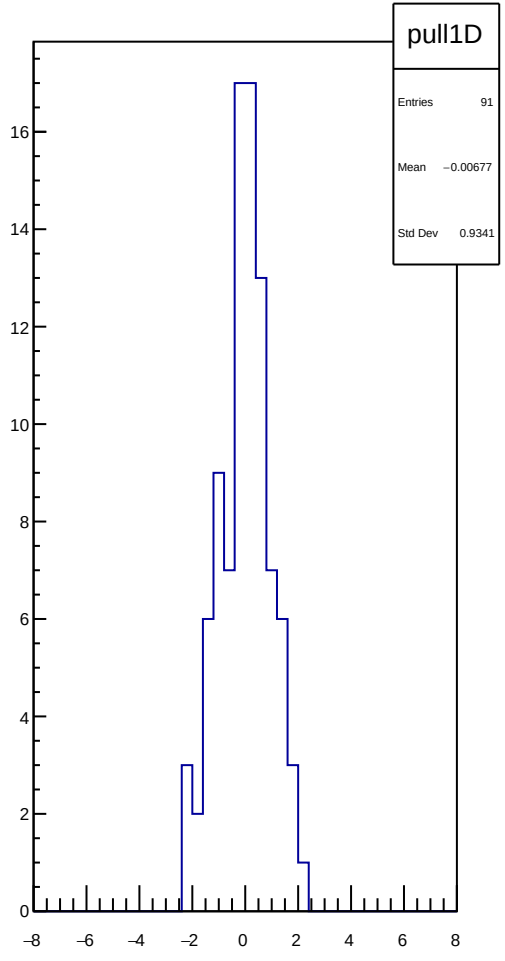

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.058e+06 / 90
p0 6.252e−12 ± 7.236e−15
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

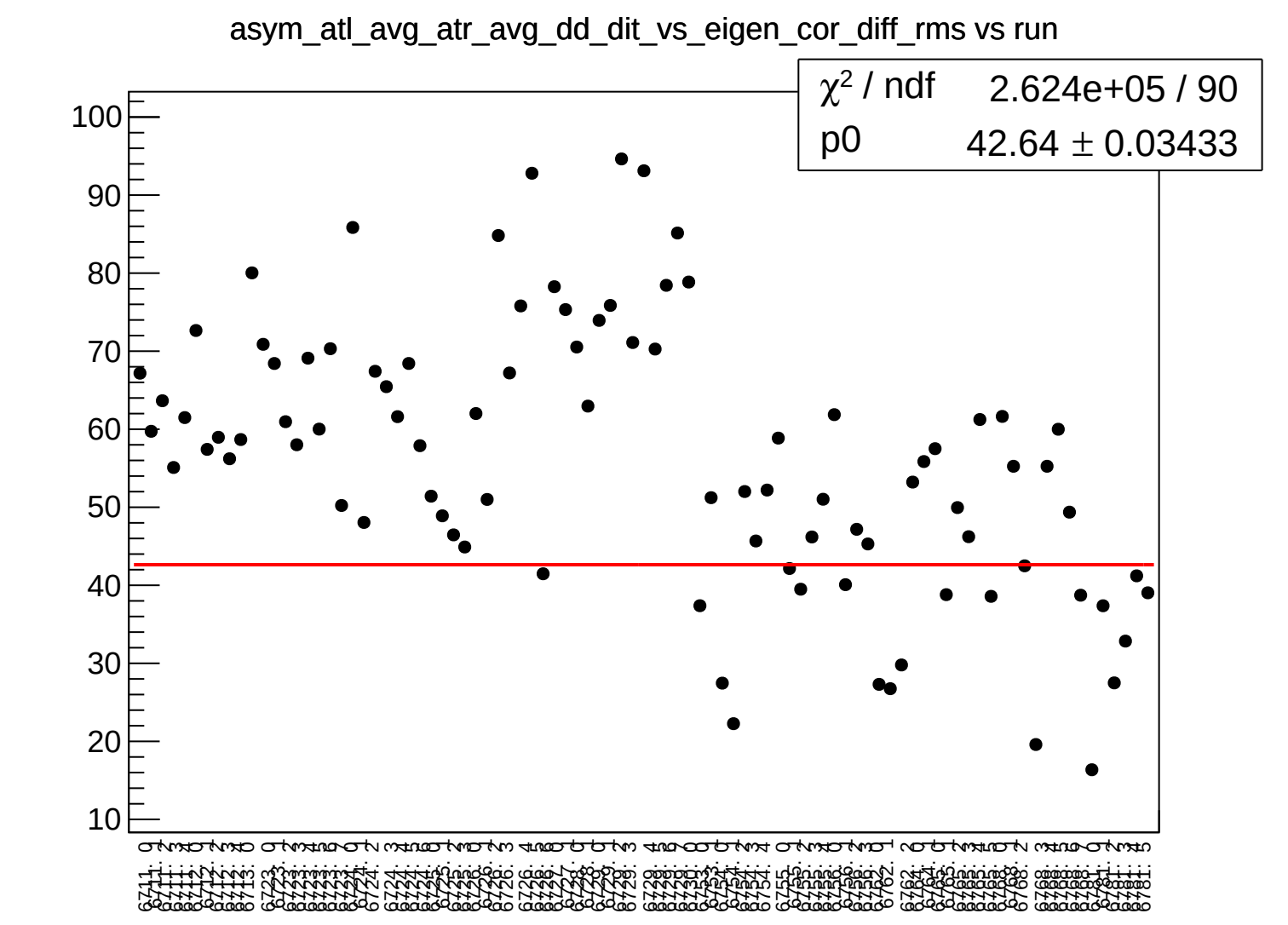

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.4 / 90
p0 −0.003654 ± 0.04856
pull
Entries 91
Mean −259.6
Std Dev 0

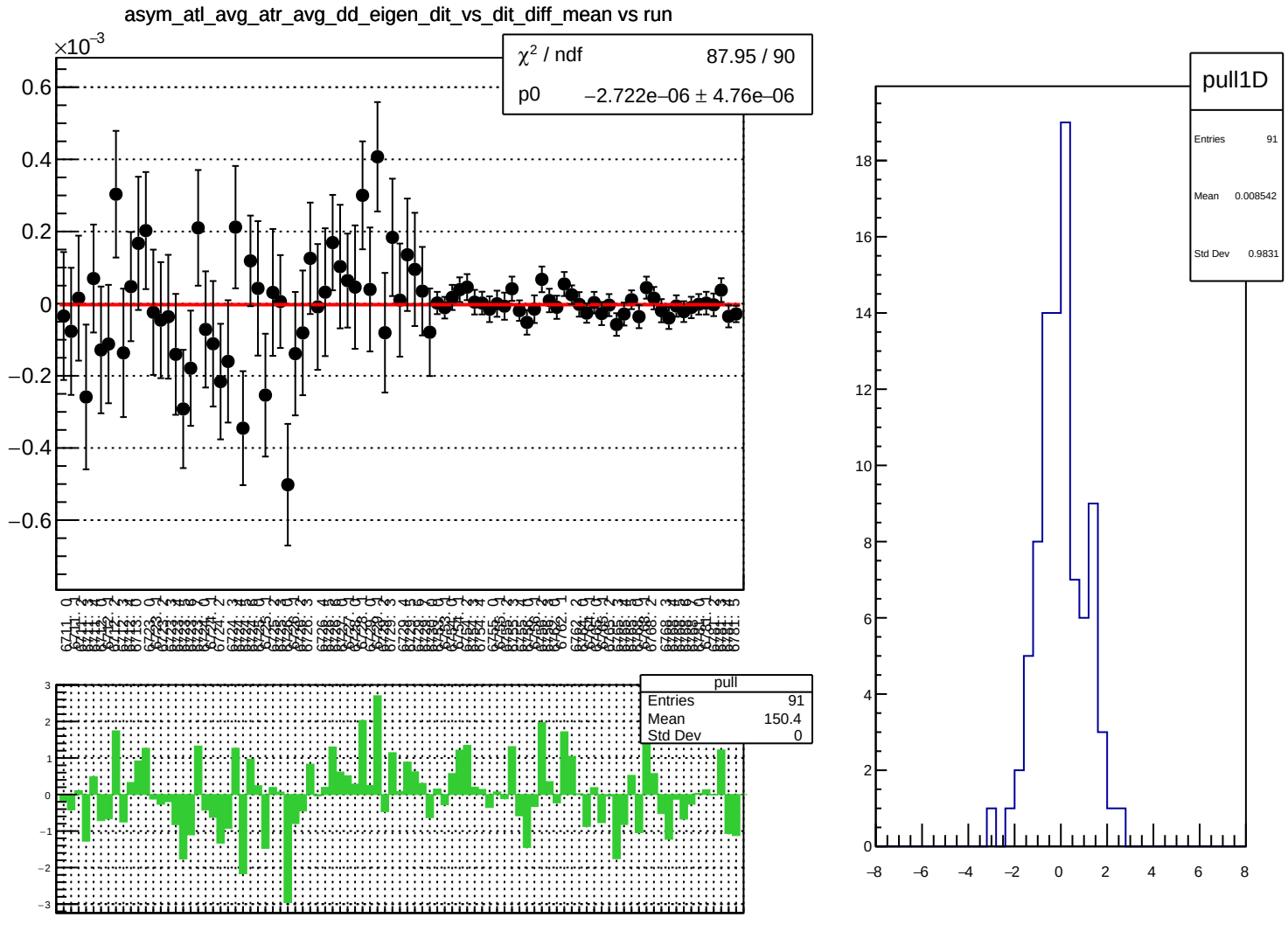

pull1D
Entries 91
Mean −0.00677
Std Dev 0.9341

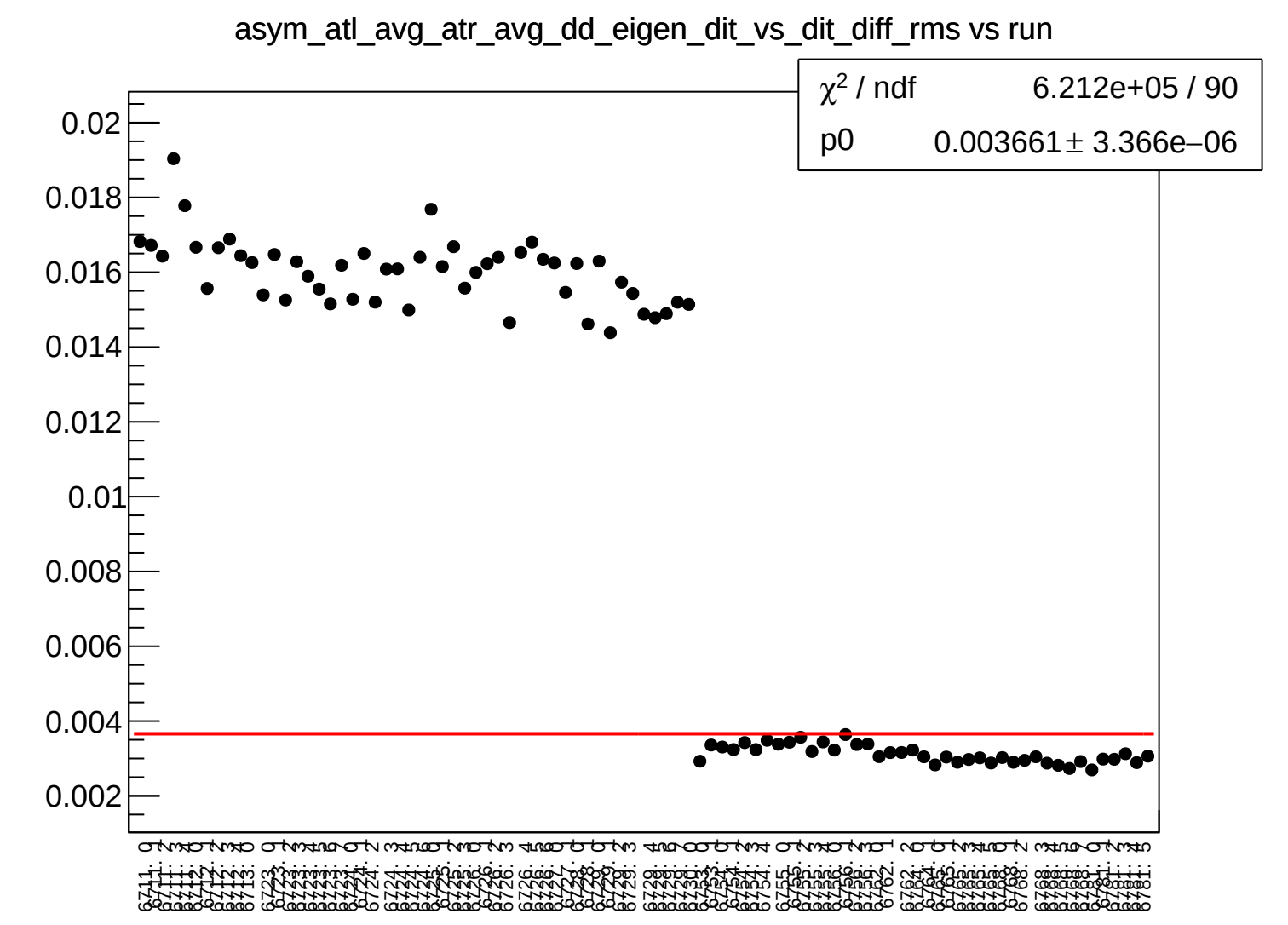

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.624e+05 / 90
p0 42.64 ± 0.03433
100
90
80
70
60
50
40
30
20
10

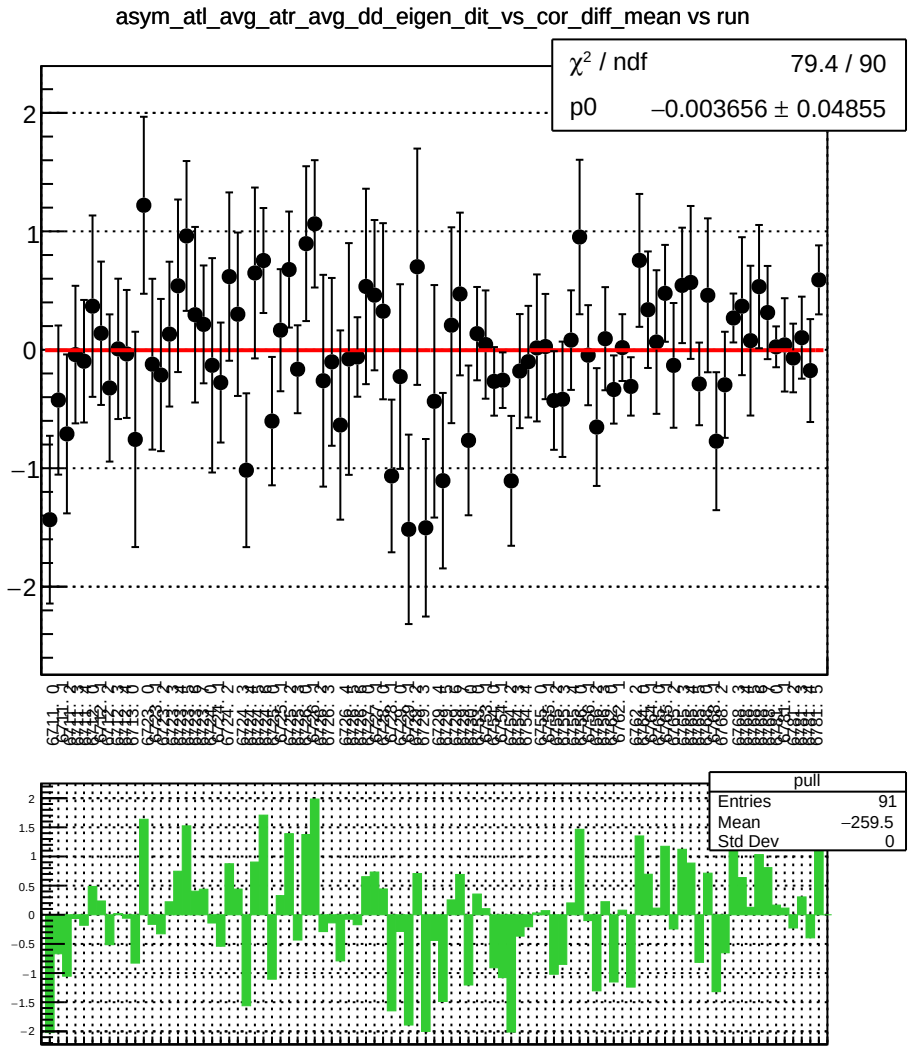

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.4 / 90
p0 −0.003654 ± 0.04856
pull
Entries 91
Mean −259.6
Std Dev 0

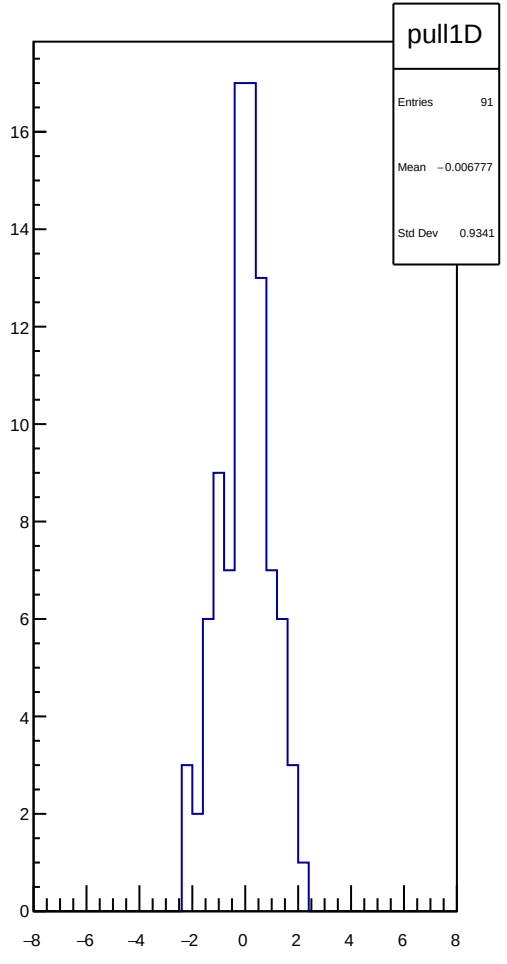

pull1D
Entries 91
Mean −0.00677
Std Dev 0.9341

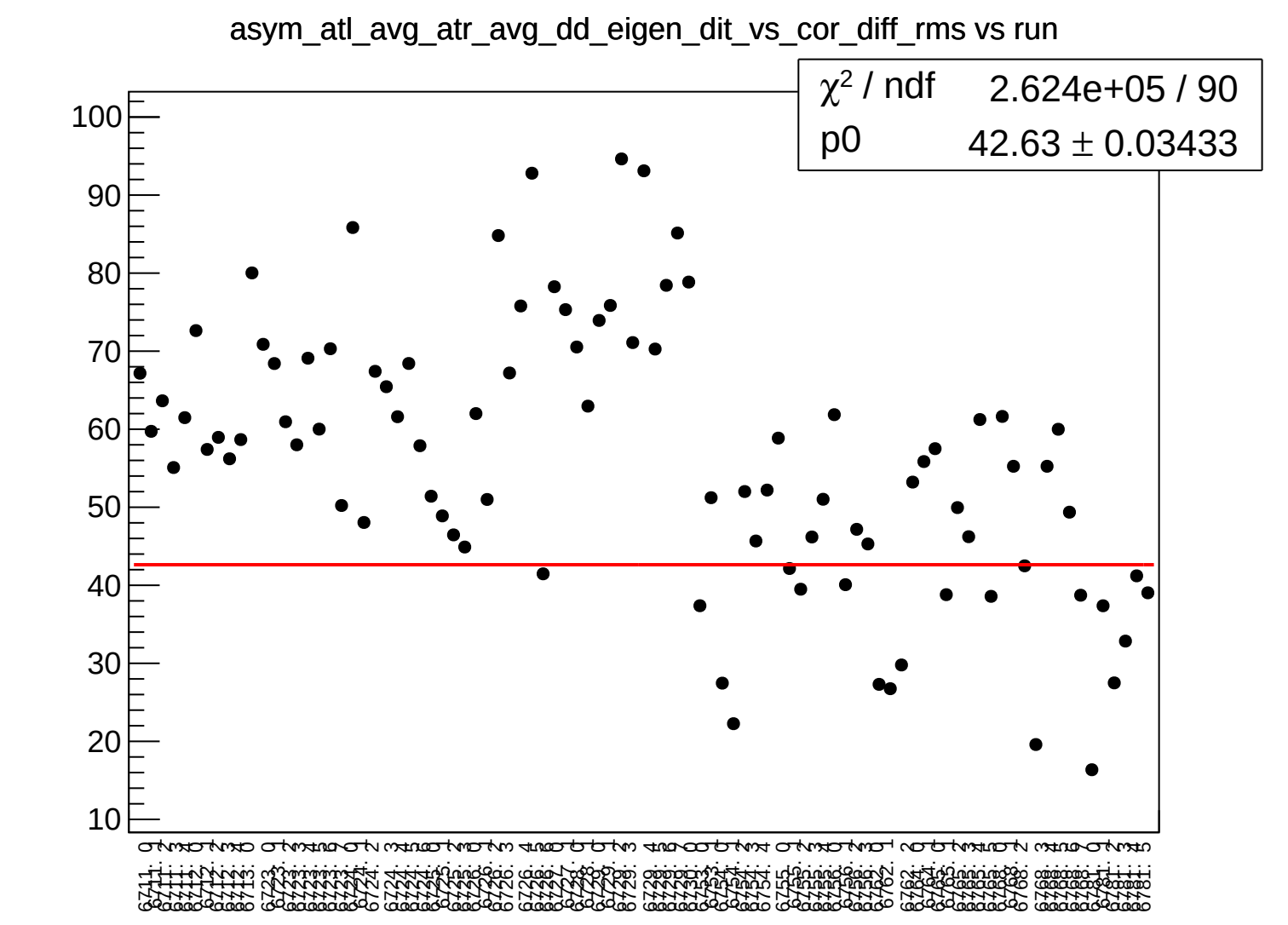

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.624e+05 / 90
p0 42.64 ± 0.03433
100
90
80
70
60
50
40
30
20
10

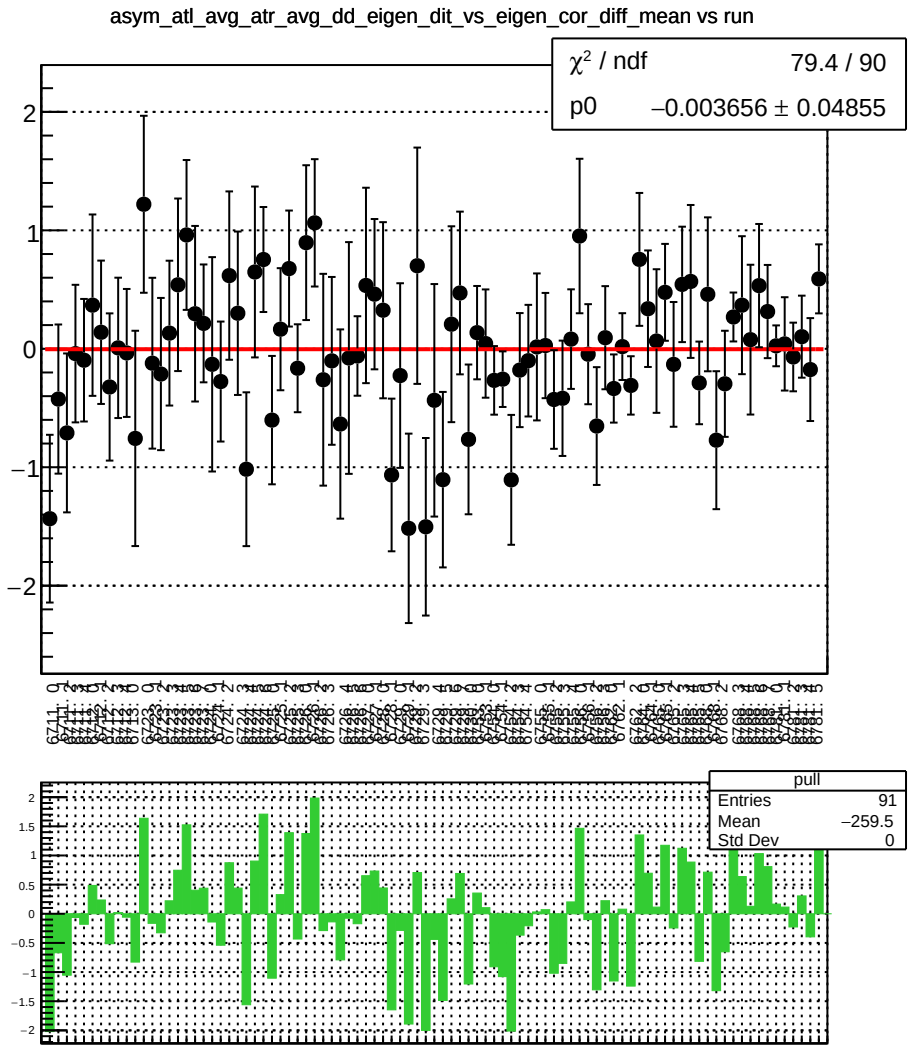

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.95 / 90
p0 −2.722e−06 ± 4.76e−06
pull
Entries 91
Mean 150.4
Std Dev 0
pull1D
Entries 91
Mean 0.008542
Std Dev 0.9831

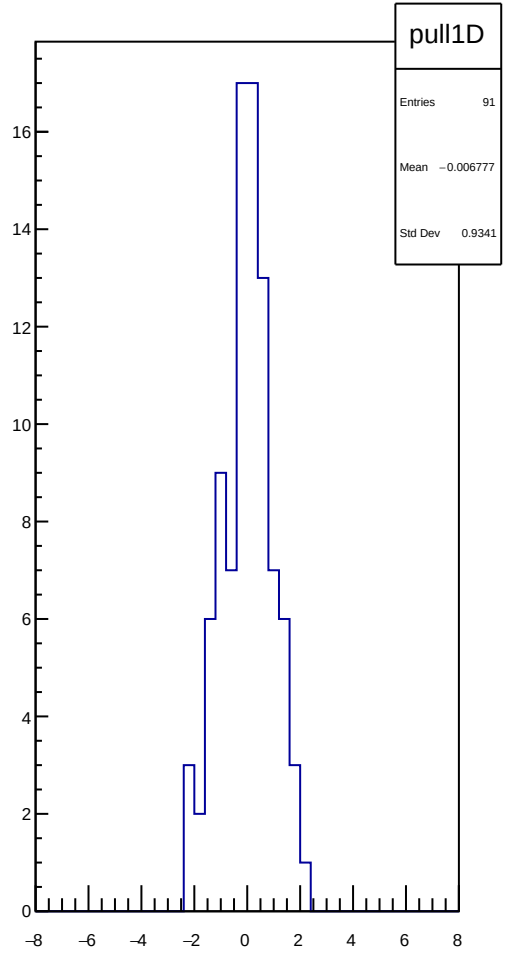

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.212e+05 / 90
p0 0.003661 ± 3.366e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

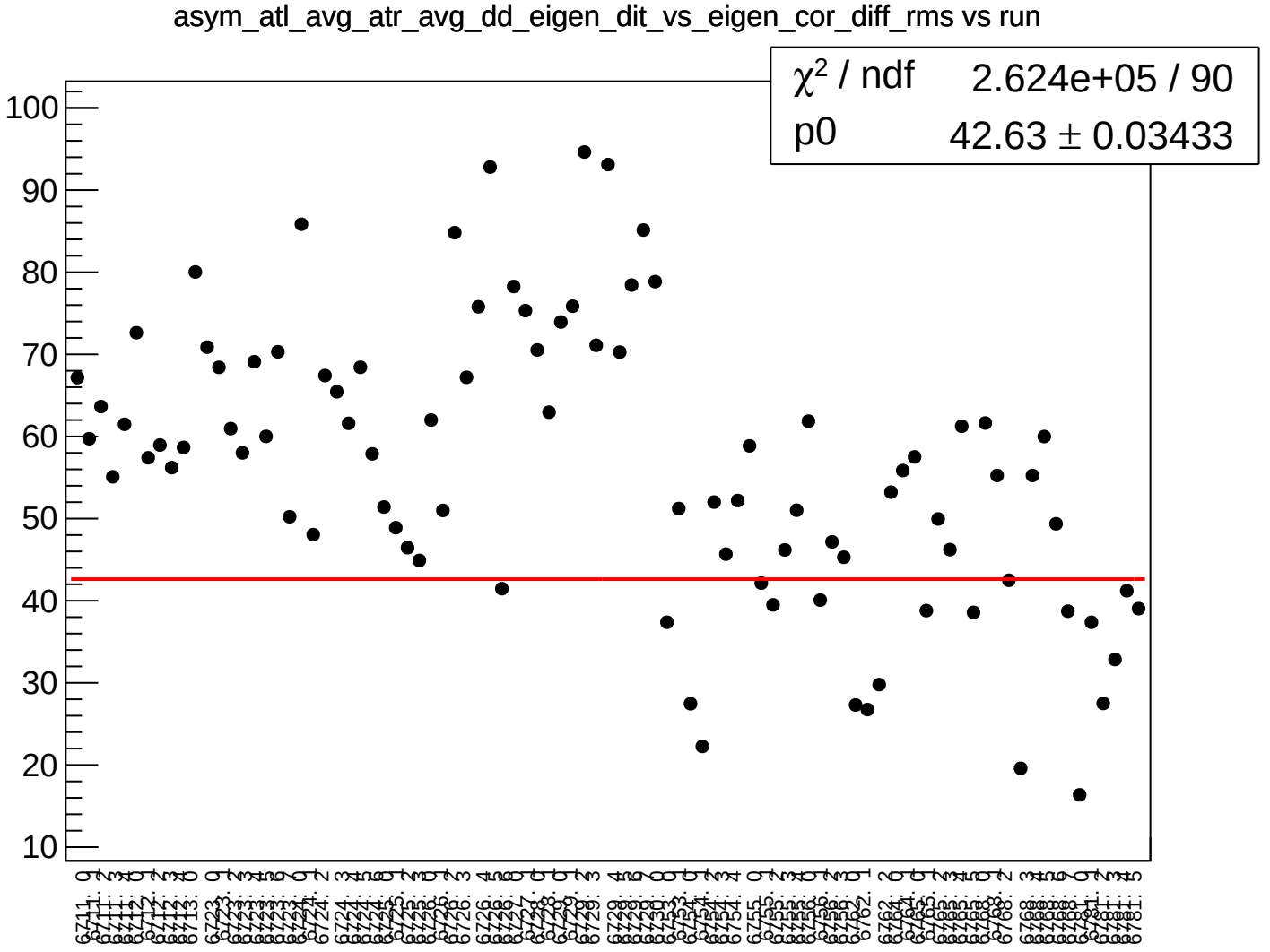

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.4 / 90
p0 −0.003656 ± 0.04855
pull
Entries 91
Mean −259.5
Std Dev 0

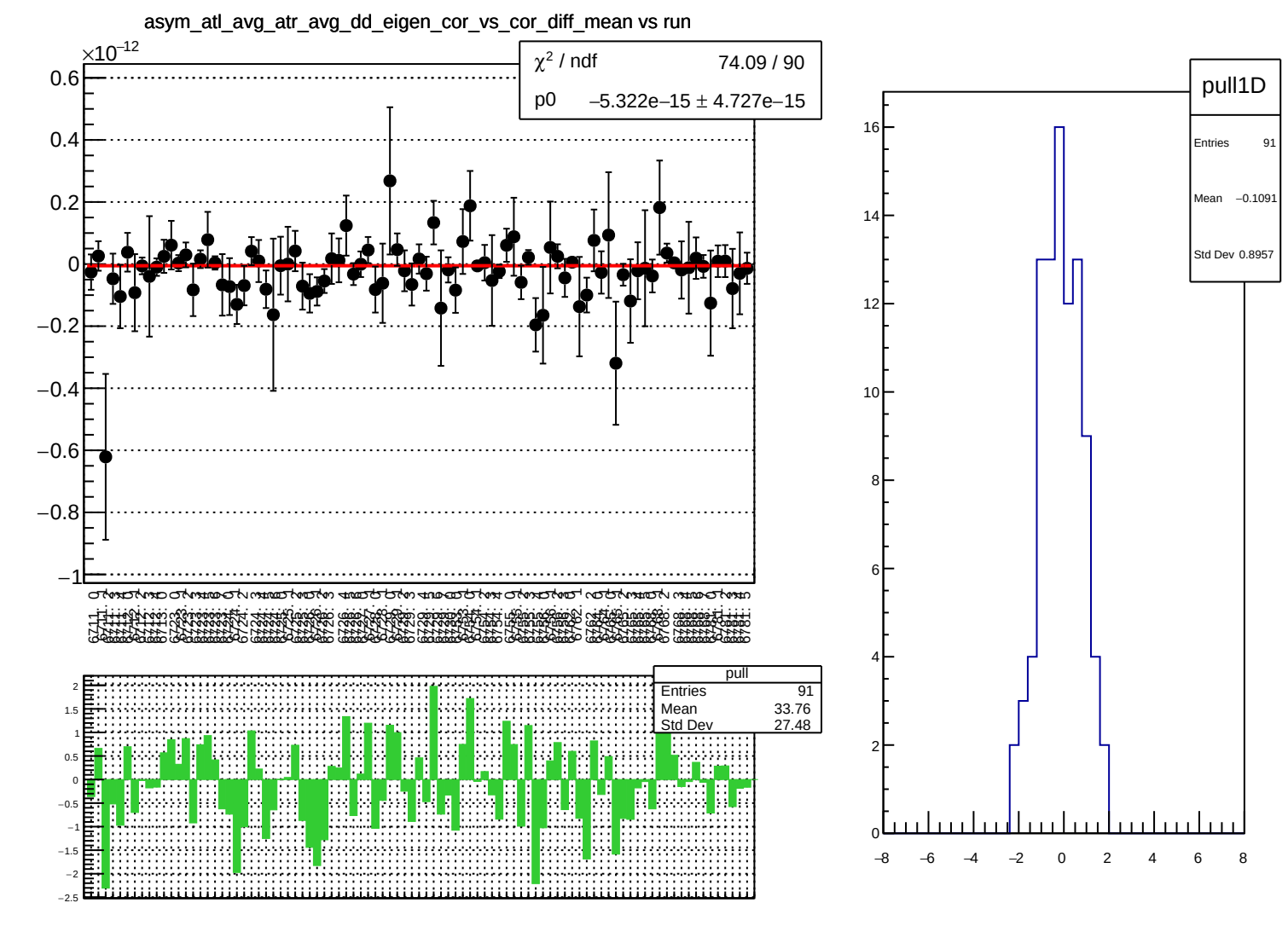

pull1D
Entries 91
Mean −0.006777
Std Dev 0.9341

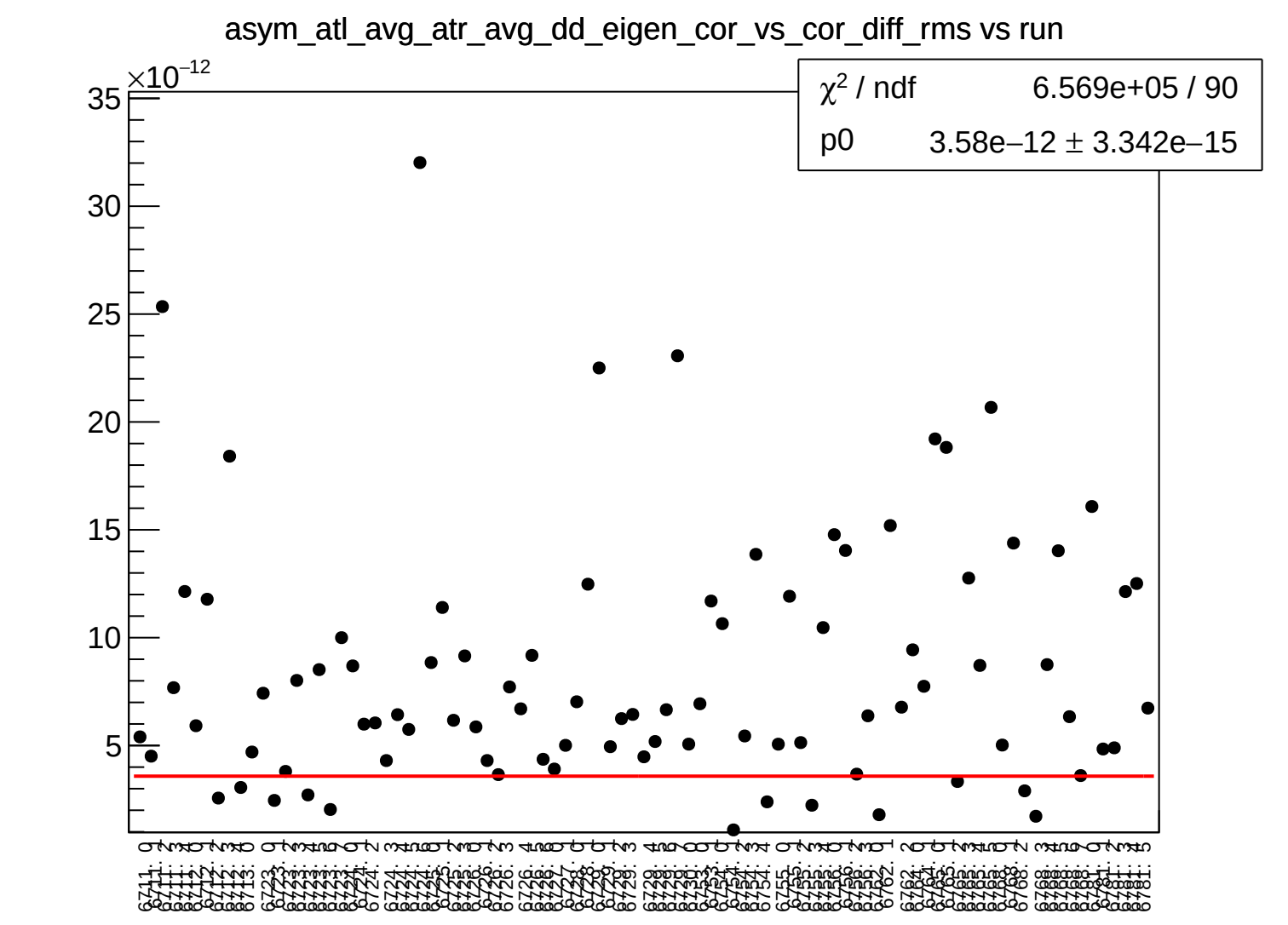

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.624e+05 / 90
p0 42.63 ± 0.03433
100
90
80
70
60
50
40
30
20
10

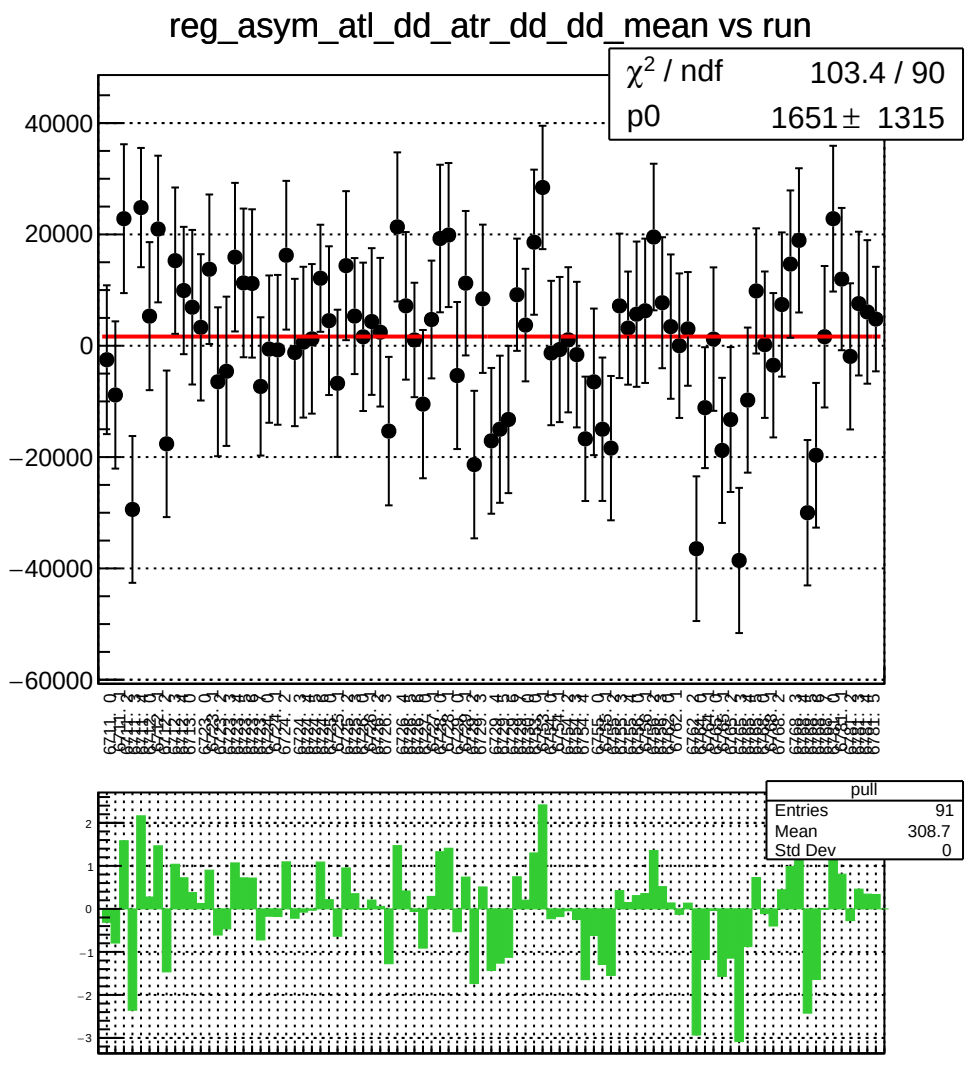

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.4 / 90
p0 −0.003656 ± 0.04855
pull
Entries 91
Mean −259.5
Std Dev 0

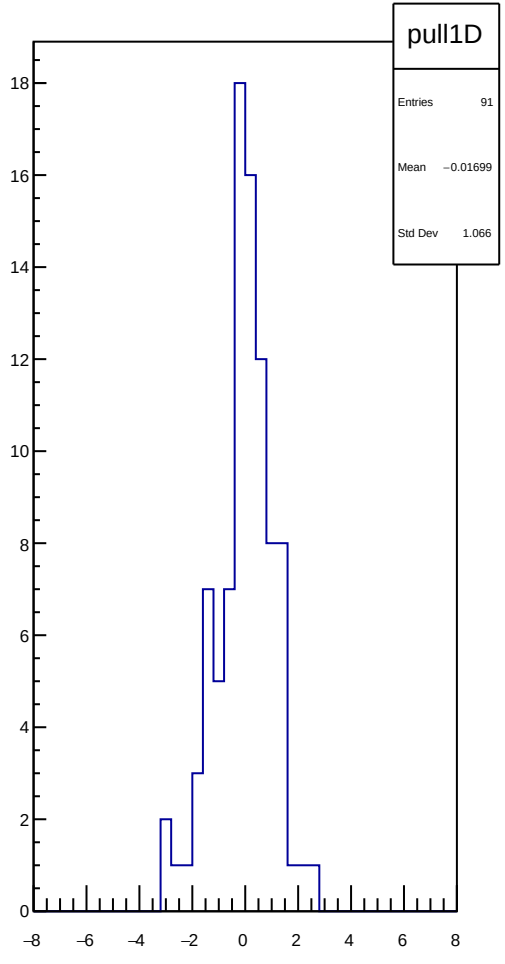

pull1D
Entries 91
Mean −0.006777
Std Dev 0.9341

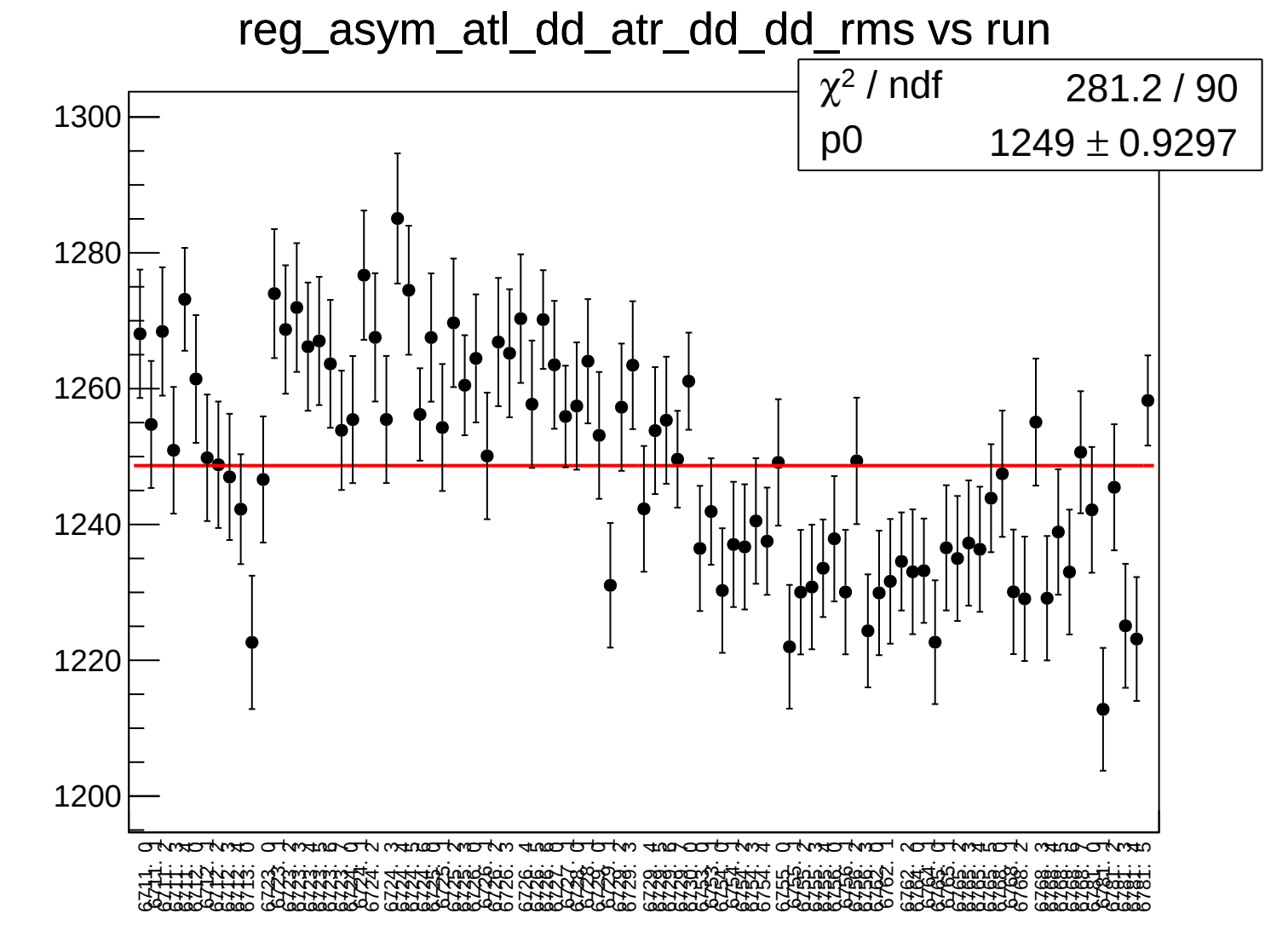

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.624e+05 / 90
p0 42.63 ± 0.03433
100
90
80
70
60
50
40
30
20
10

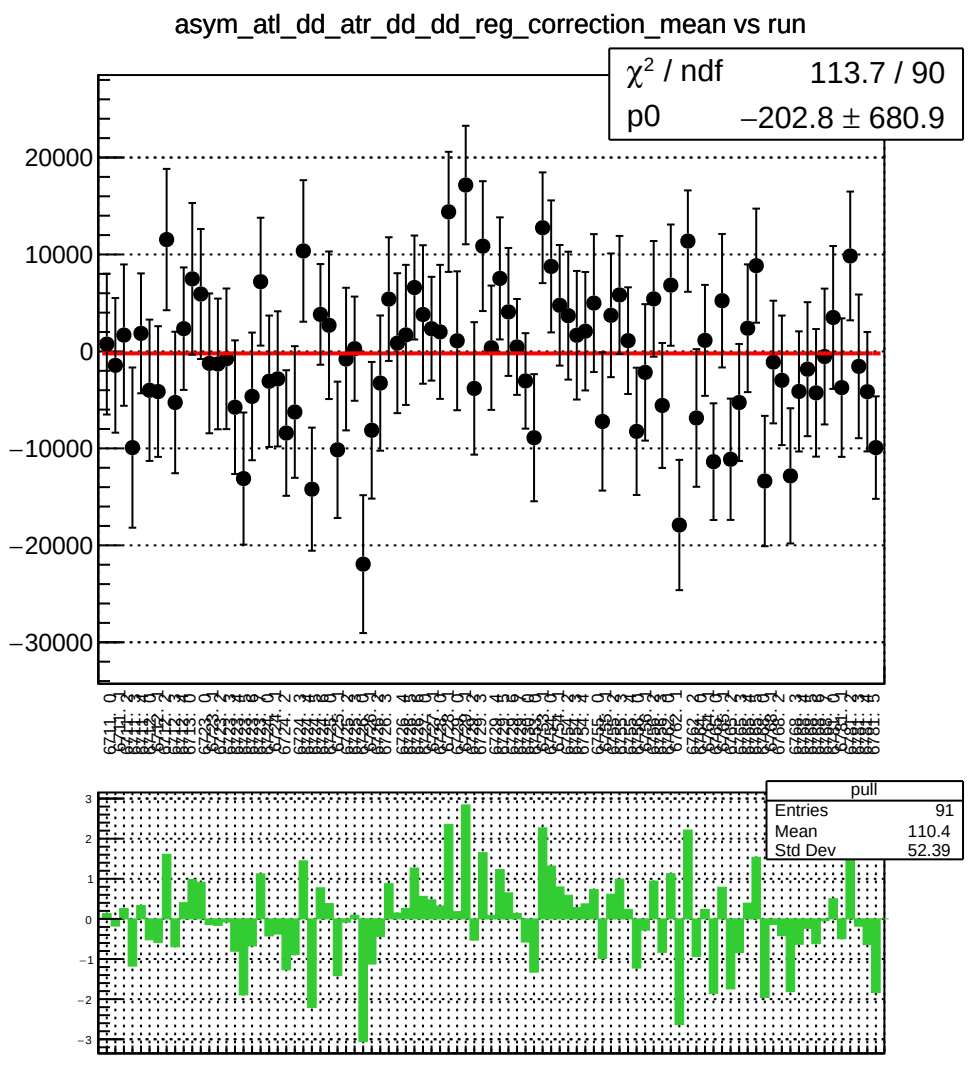

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 74.09 / 90
p0 −5.322e−15 ± 4.727e−15
pull
Entries 91
Mean 33.76
Std Dev 27.48
pull1D
Entries 91
Mean −0.1091
Std Dev 0.8957

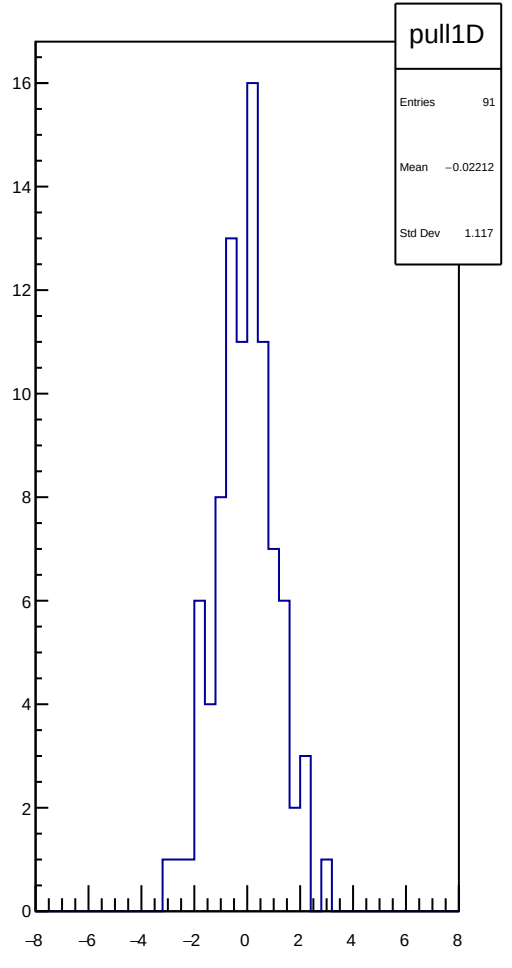

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 6.569e+05 / 90
p0 3.58e−12 ± 3.342e−15
35
30
25
20
15
10
5

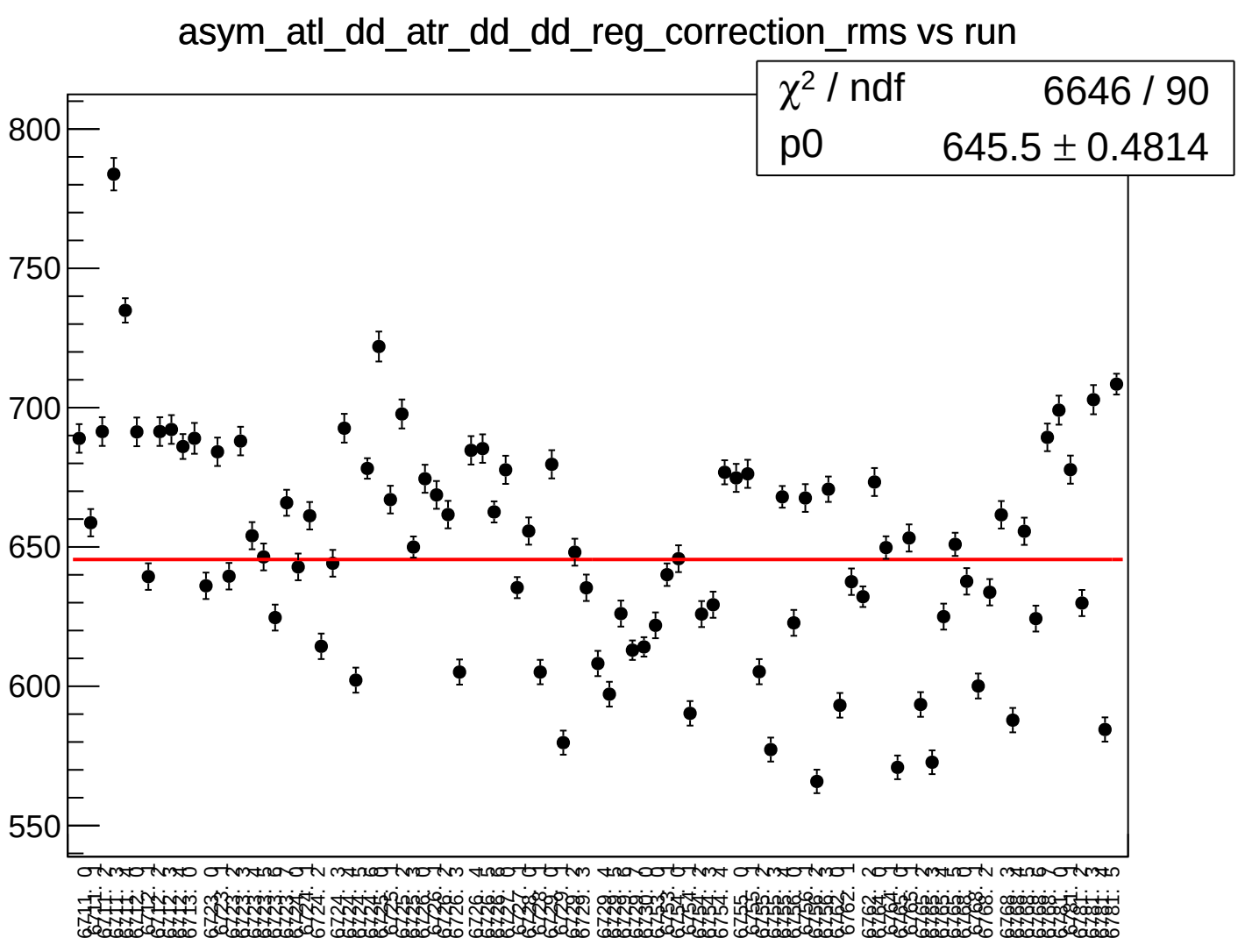

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 103.4 / 90
p0 1651 ± 1315
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 308.7
Std Dev 0
2
1
0
−1
−2
−3

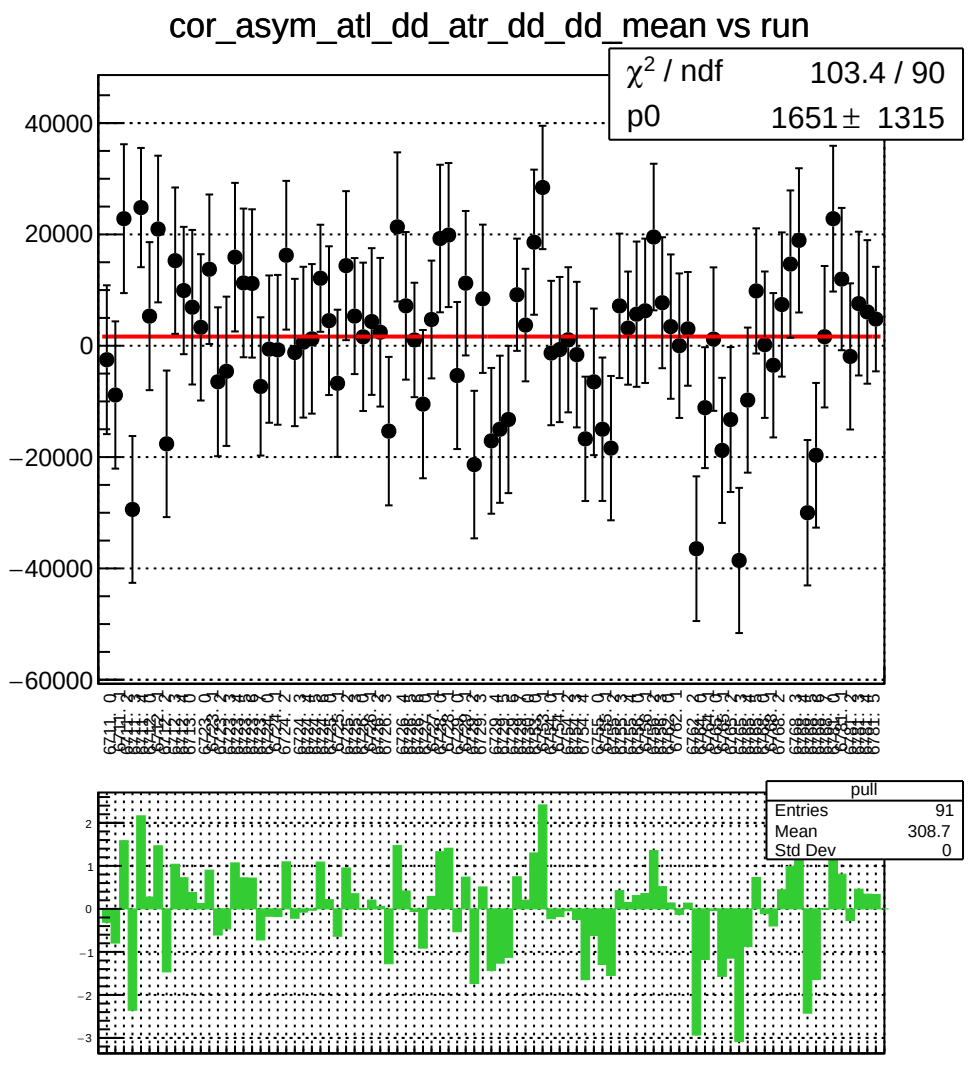

pull1D
Entries 91
Mean −0.01699
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

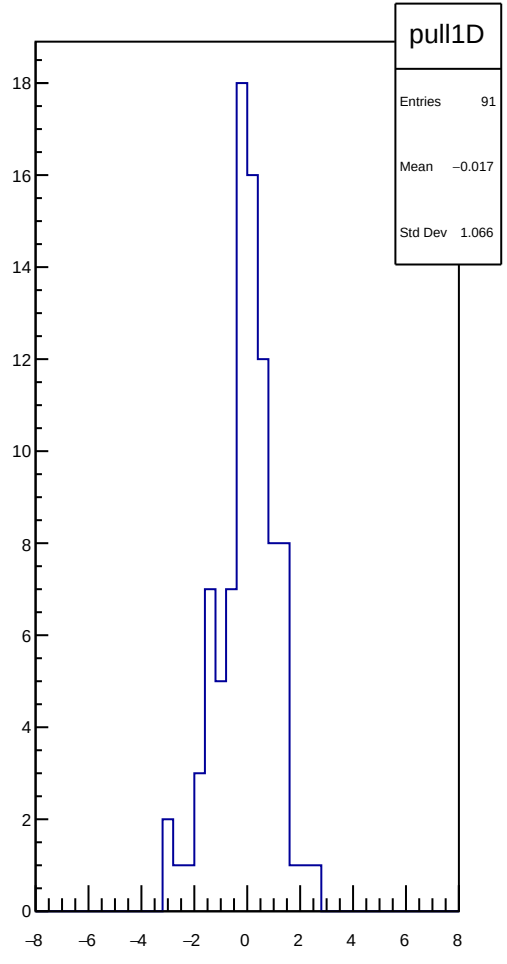

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 281.2 / 90
p0 1249 ± 0.9297
1300
1280
1260
1240
1220
1200

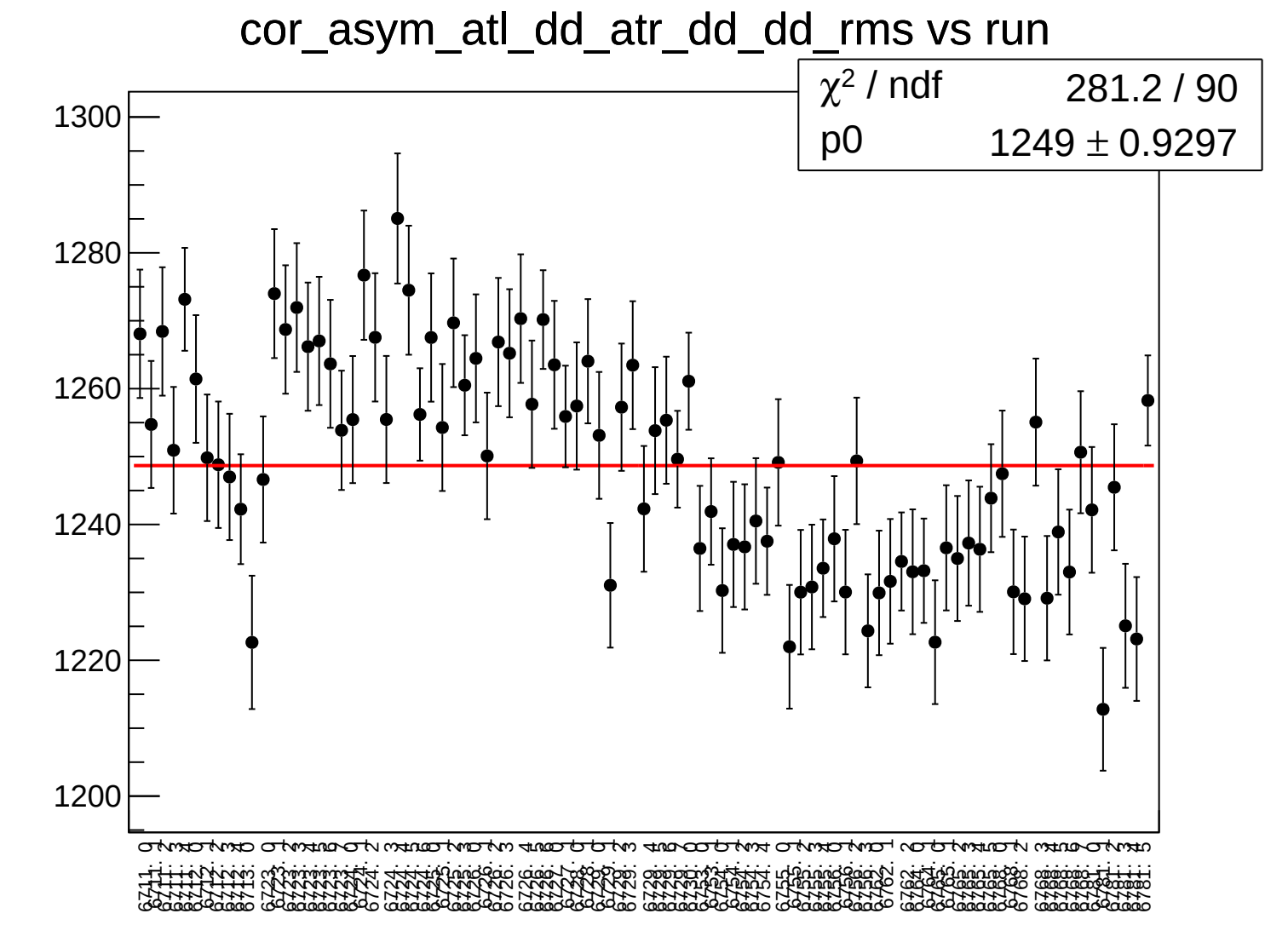

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 113.7 / 90
p0 −202.8 ± 680.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 110.4
Std Dev 52.39
3
2
1
0
−1
−2
−3

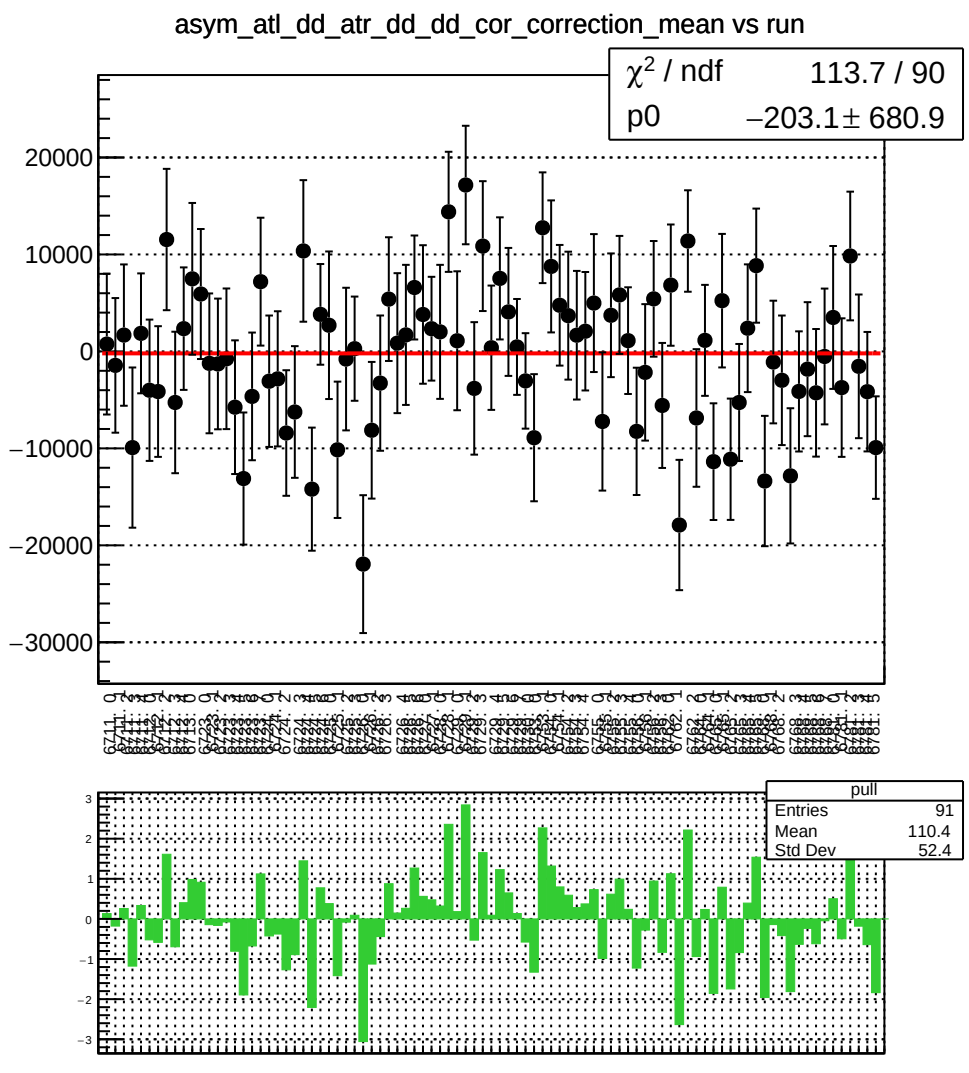

pull1D
Entries 91
Mean −0.02212
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

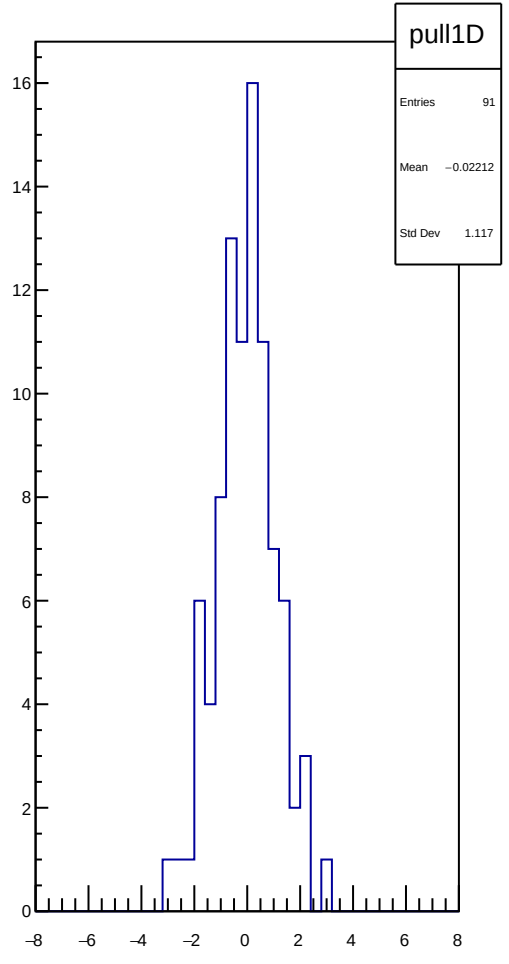

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 6646 / 90
p0 645.5 ± 0.4814
800
750
700
650
600
550

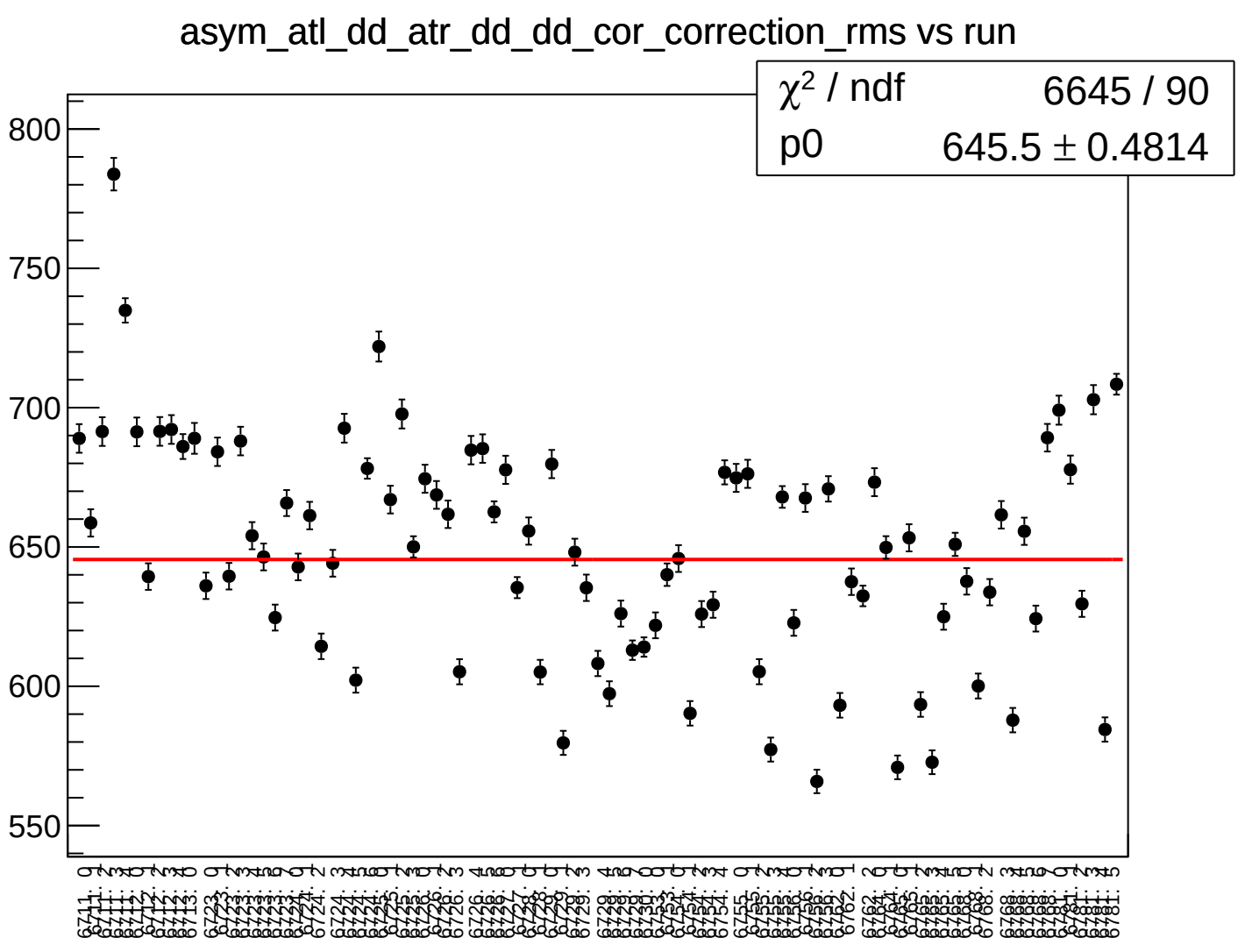

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 103.4 / 90
p0 1651 ± 1315
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 308.7
Std Dev 0
2
1
0
−1
−2
−3

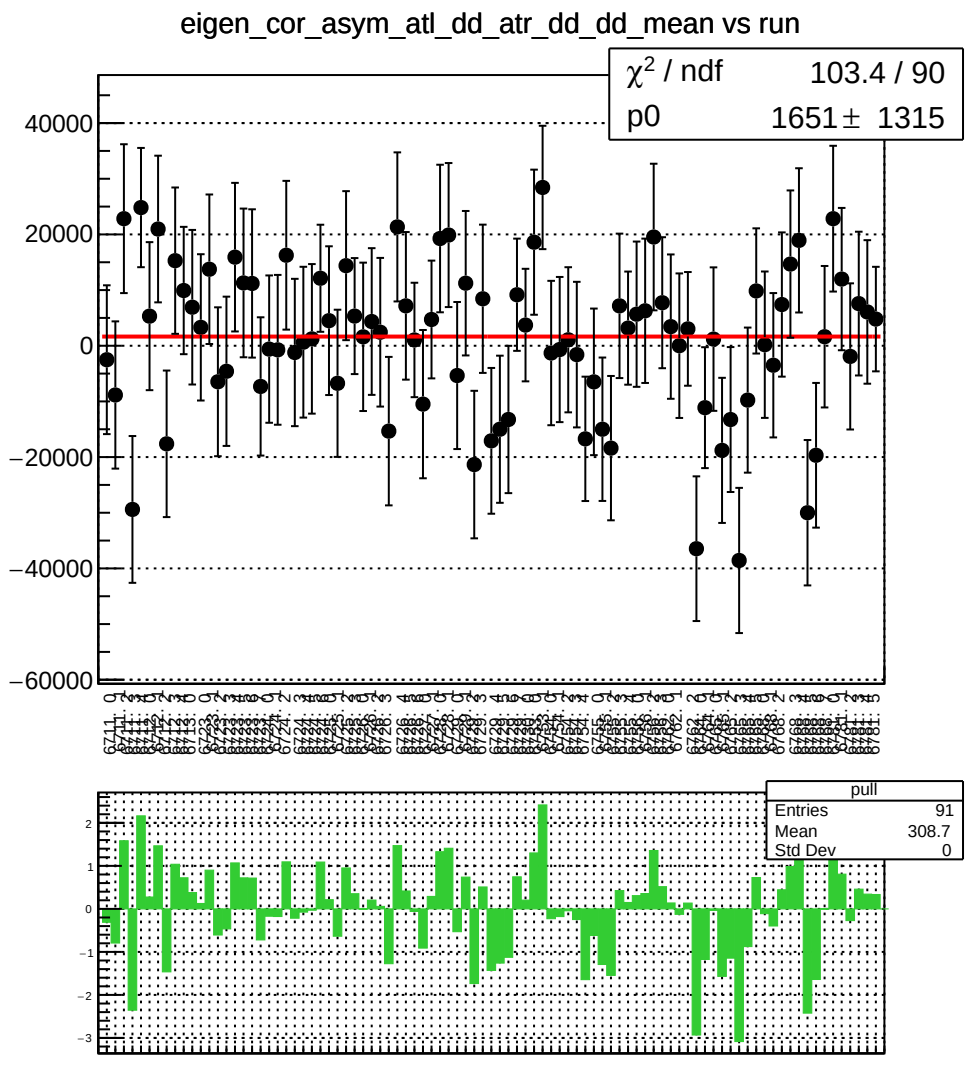

pull1D
Entries 91
Mean −0.017
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

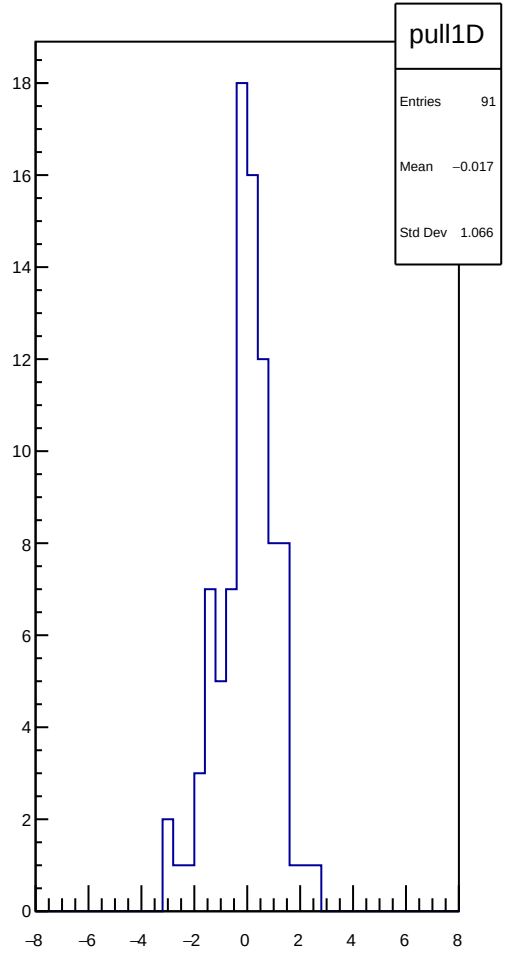

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 281.2 / 90
p0 1249 ± 0.9297
1300
1280
1260
1240
1220
1200

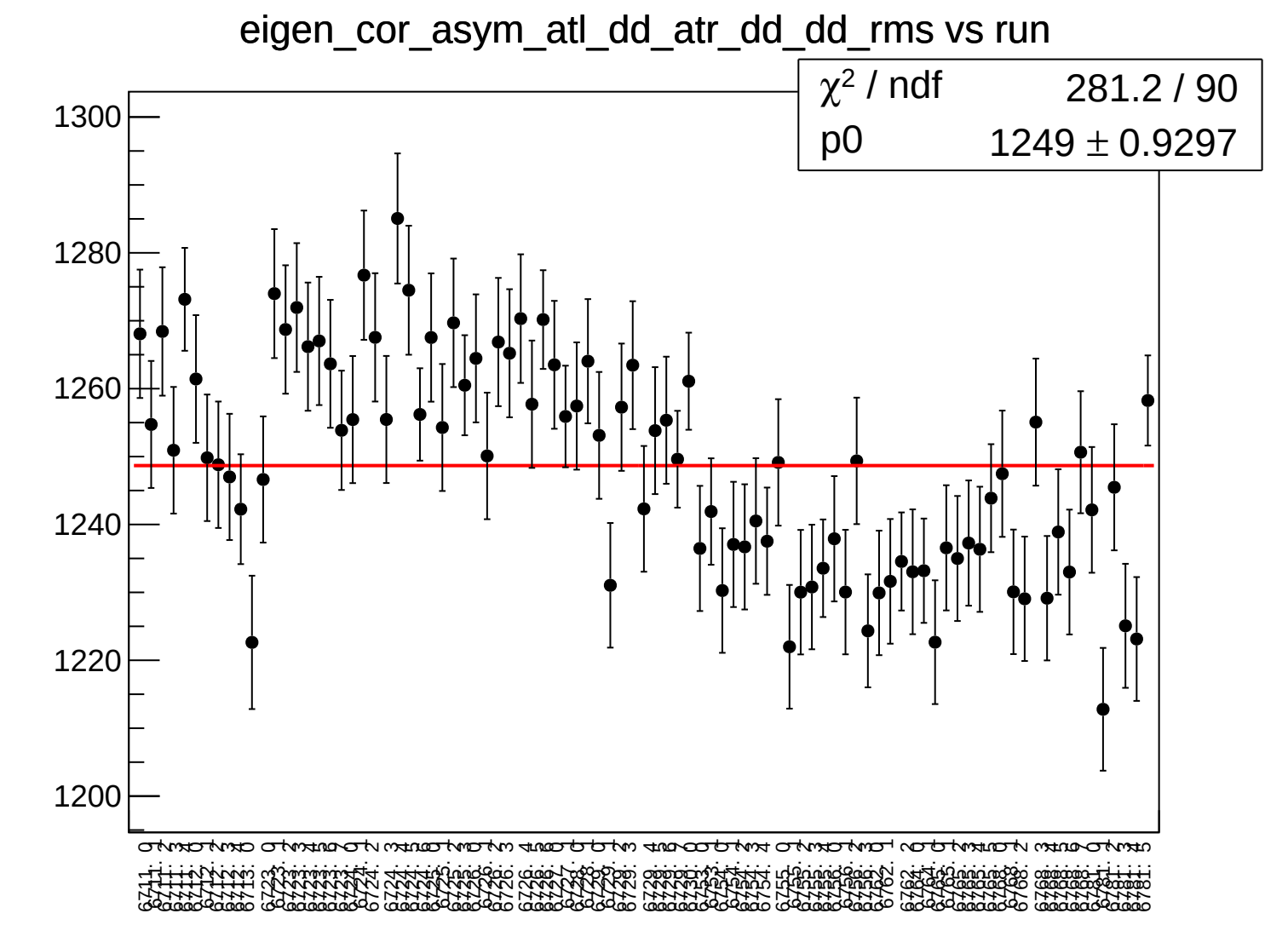

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 113.7 / 90
p0 −203.1± 680.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 110.4
Std Dev 52.4
3
2
1
0
−1
−2
−3

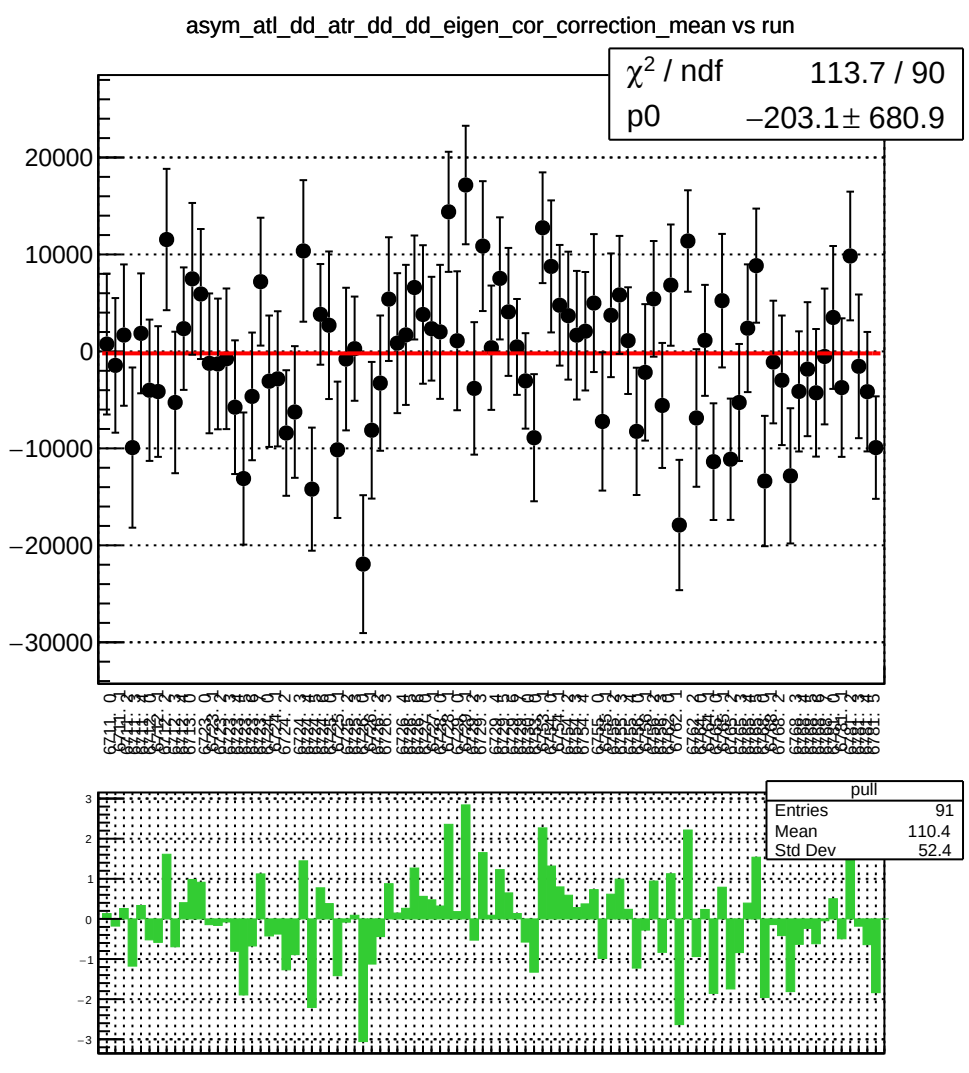

pull1D
Entries 91
Mean −0.02212
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

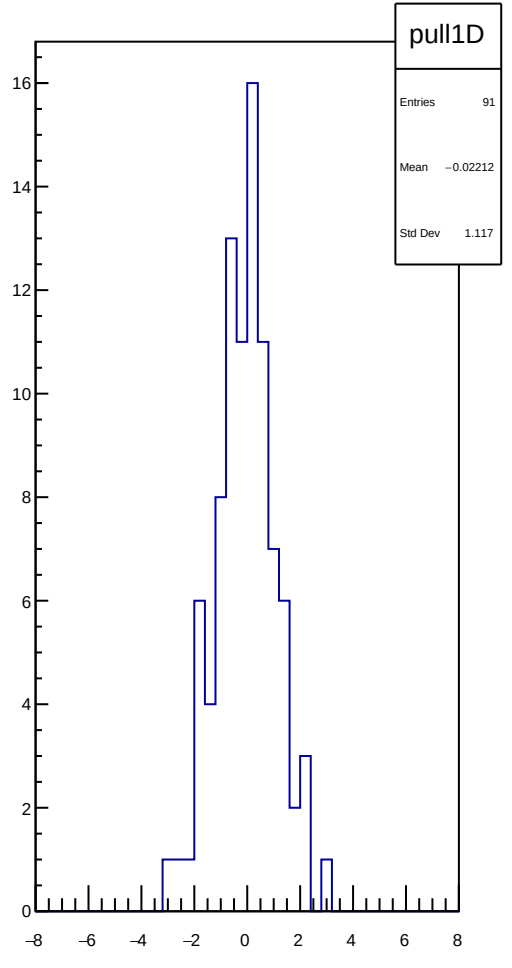

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 6645 / 90
p0 645.5 ± 0.4814
800
750
700
650
600
550

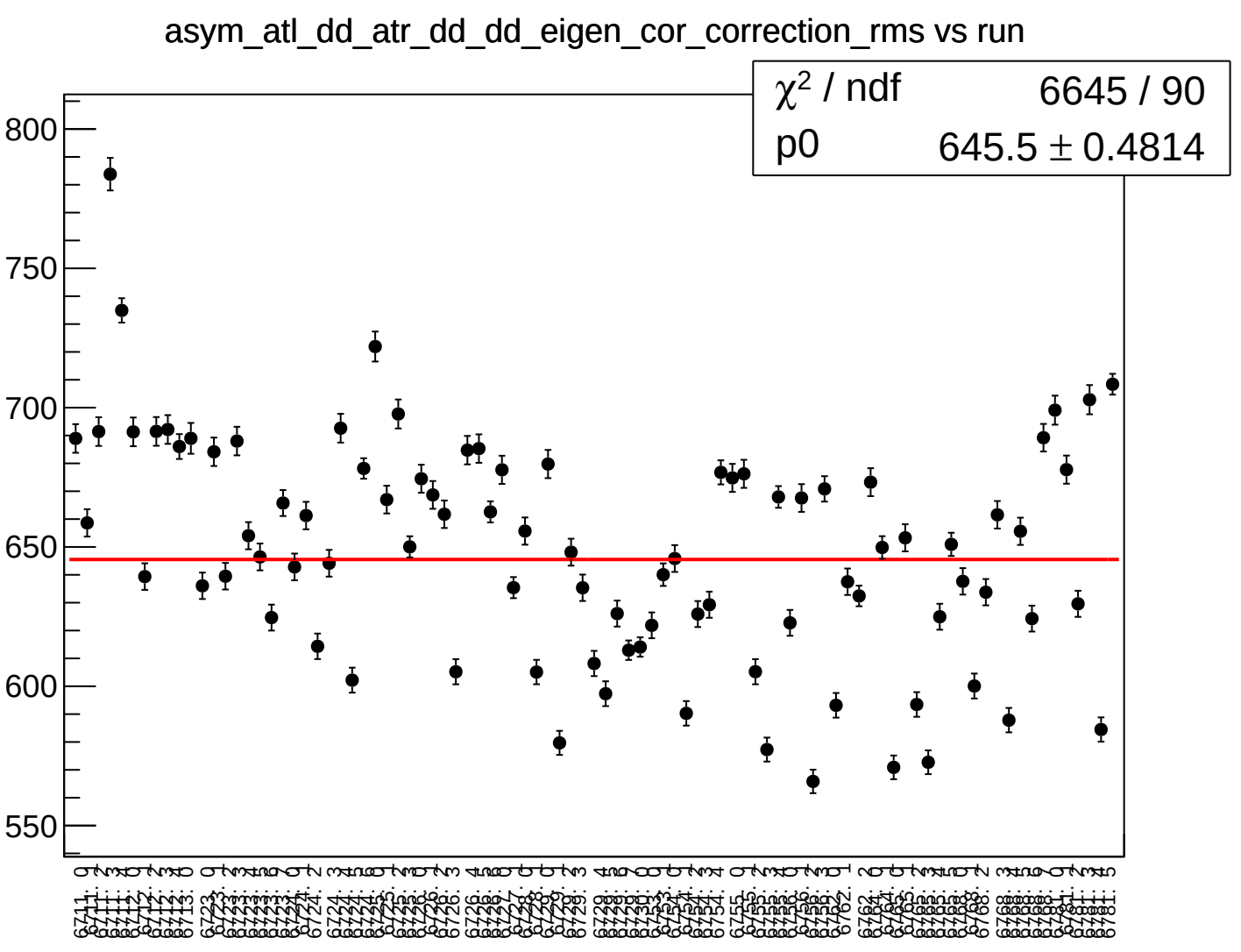

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 103.4 / 90
p0 1651 ± 1315
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 308.7
Std Dev 0
2
1
0
−1
−2
−3

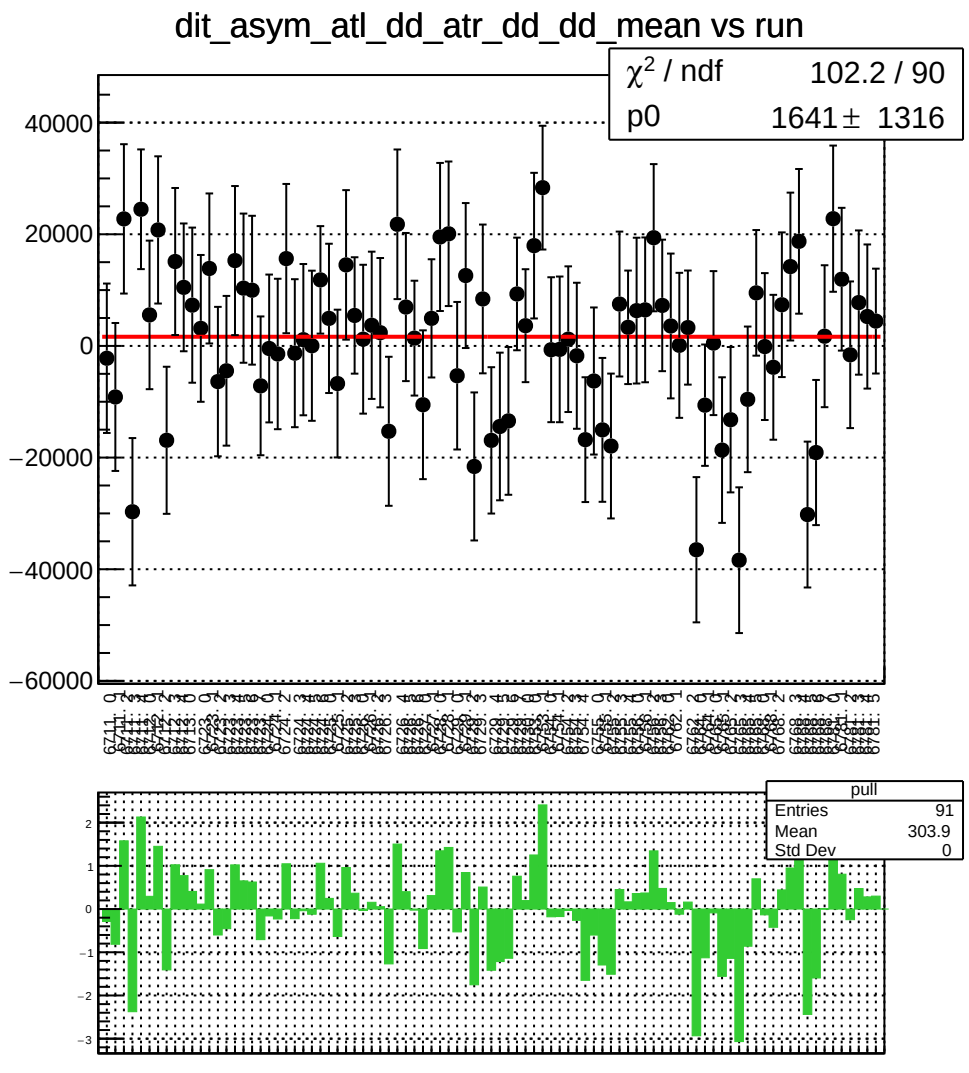

pull1D
Entries 91
Mean −0.017
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

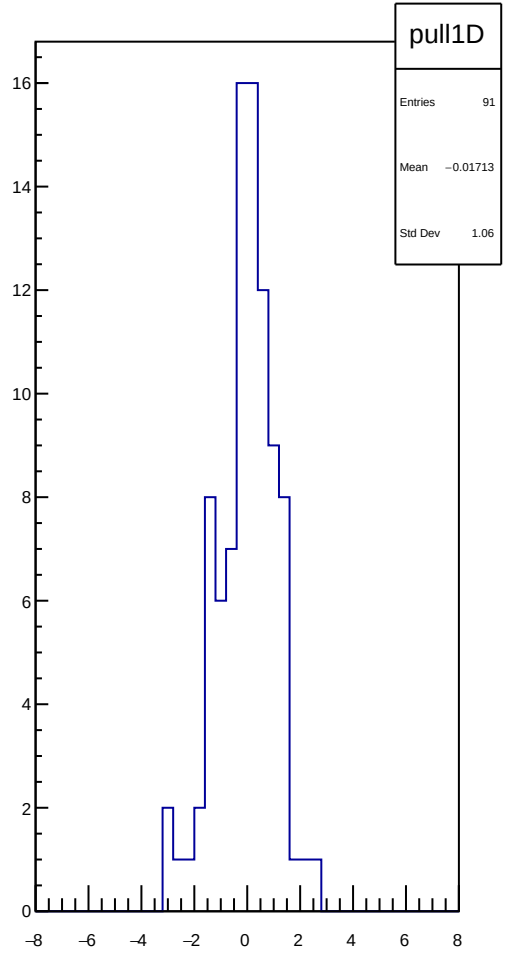

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 281.2 / 90
p0 1249 ± 0.9297
1300
1280
1260
1240
1220
1200

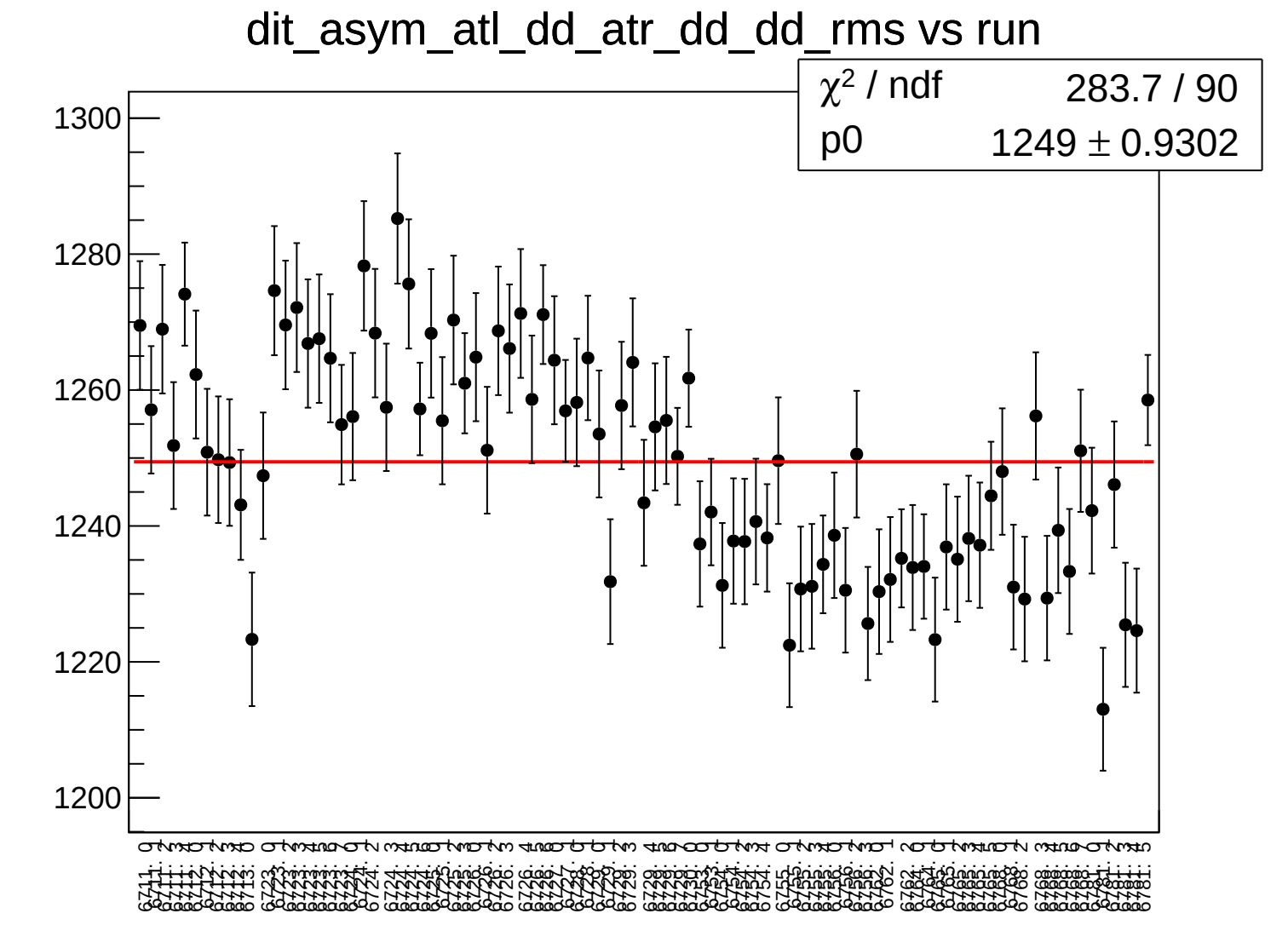

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 113.7 / 90
p0 −203.1± 680.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 110.4
Std Dev 52.4
3
2
1
0
−1
−2
−3

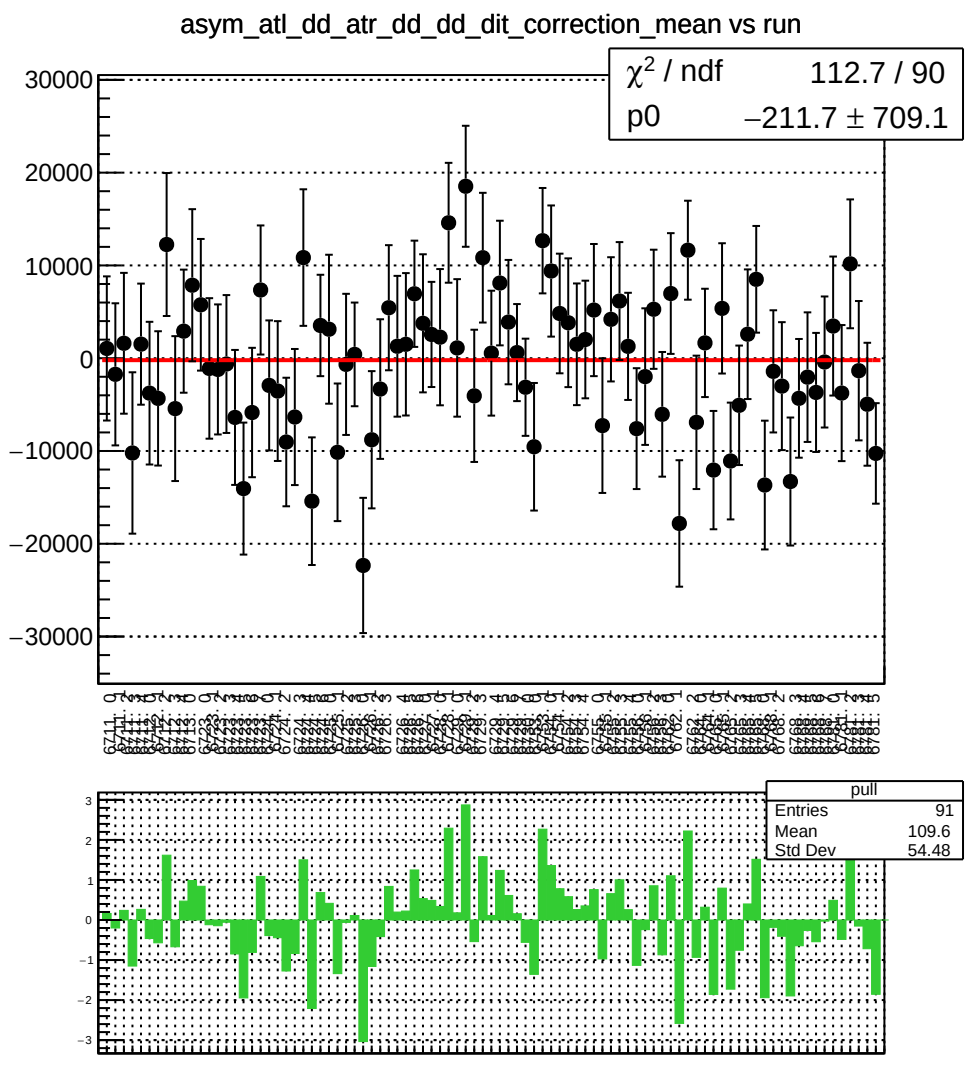

pull1D
Entries 91
Mean −0.02212
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

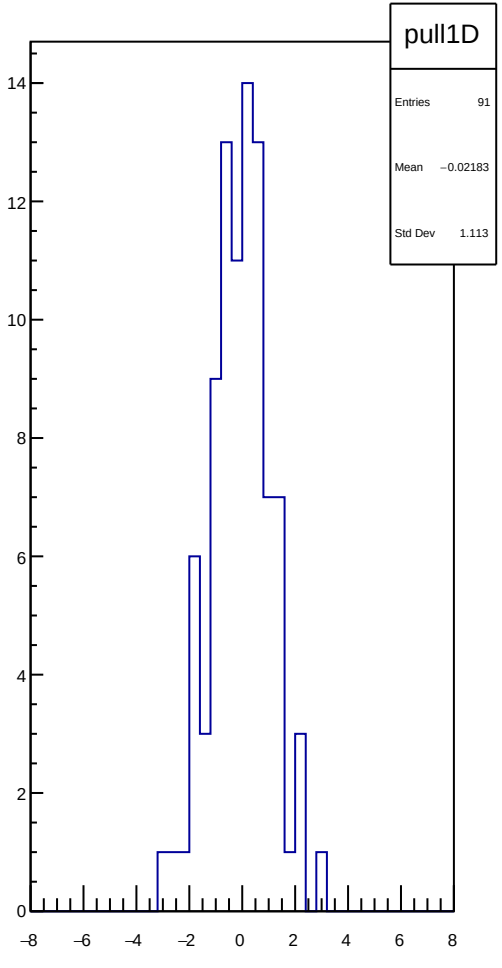

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 6645 / 90
p0 645.5 ± 0.4814
800
750
700
650
600
550

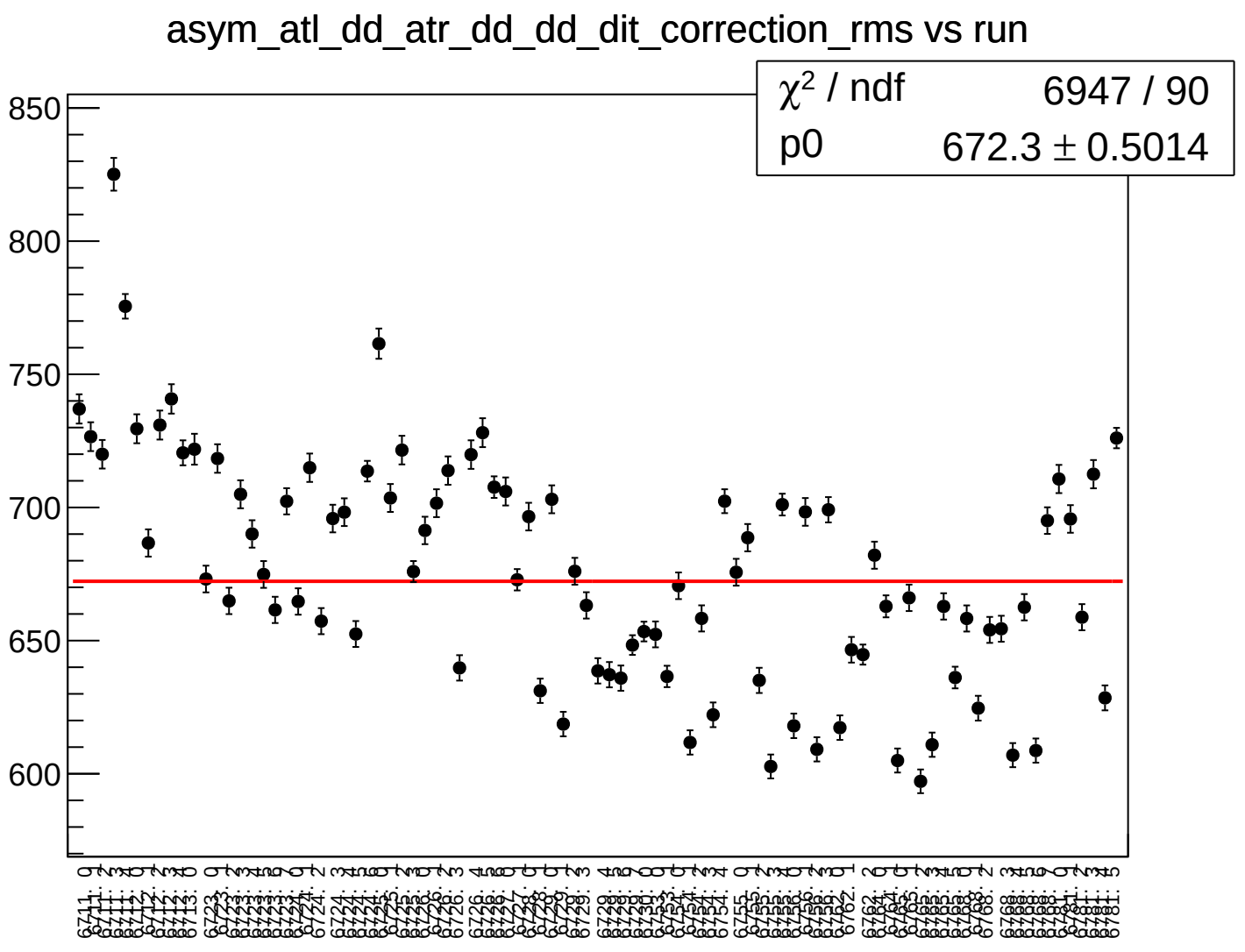

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 102.2 / 90
p0 1641 ± 1316
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 303.9
Std Dev 0
2
1
0
−1
−2
−3

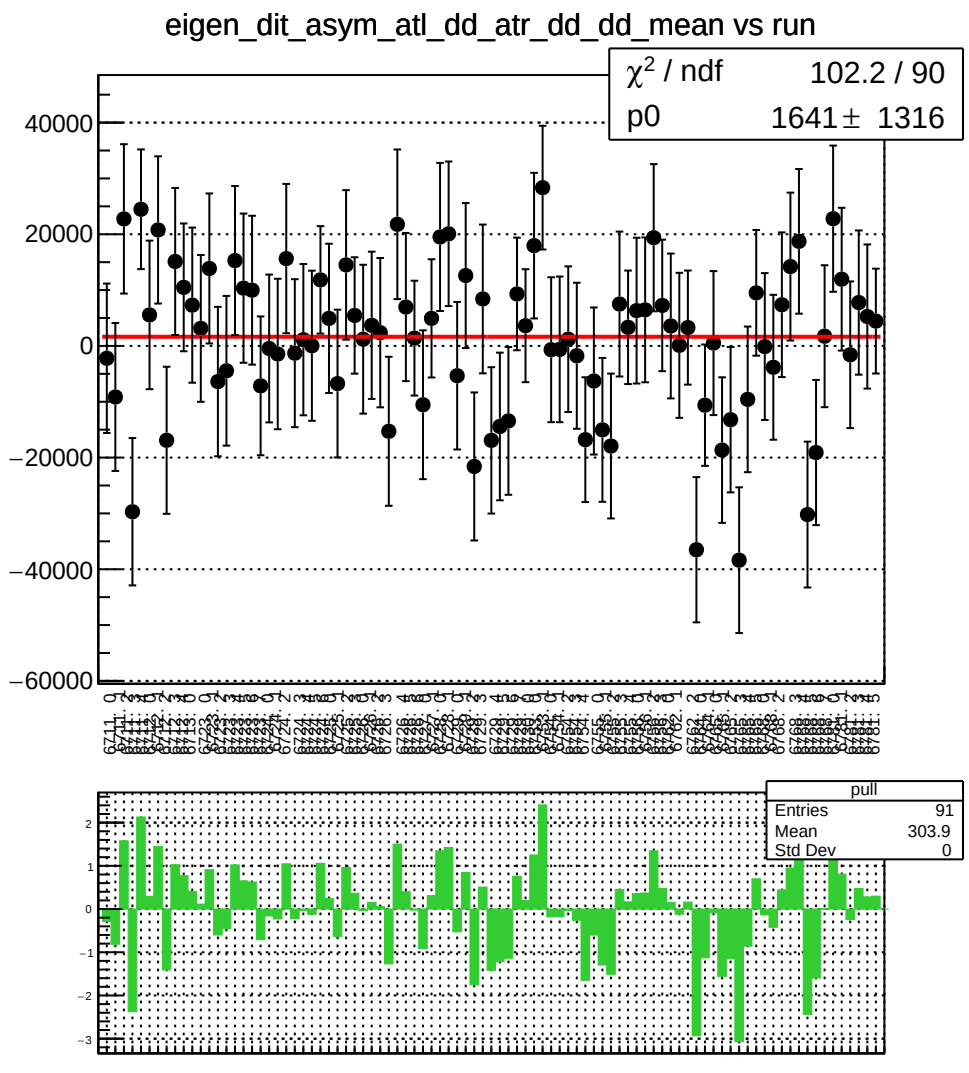

pull1D
Entries 91
Mean −0.01713
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

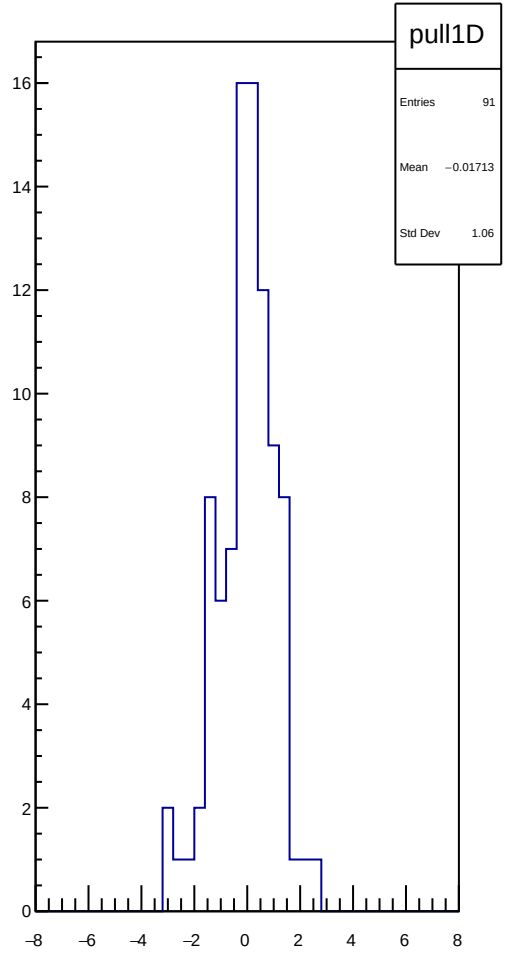

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 283.7 / 90
p0 1249 ± 0.9302
1300
1280
1260
1240
1220
1200

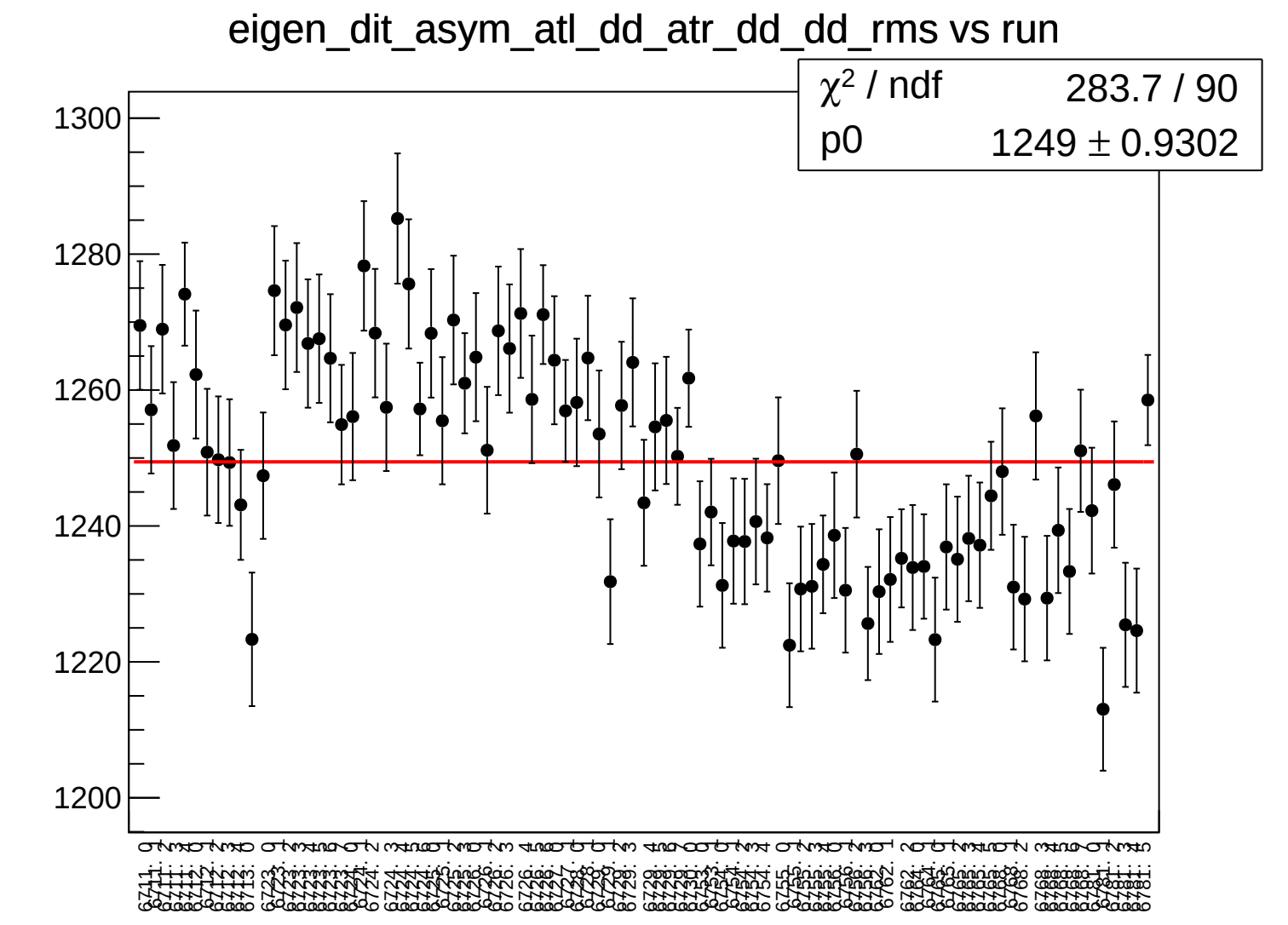

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 112.7 / 90
p0 −211.7 ± 709.1
pull
Entries 91
Mean 109.6
Std Dev 54.48

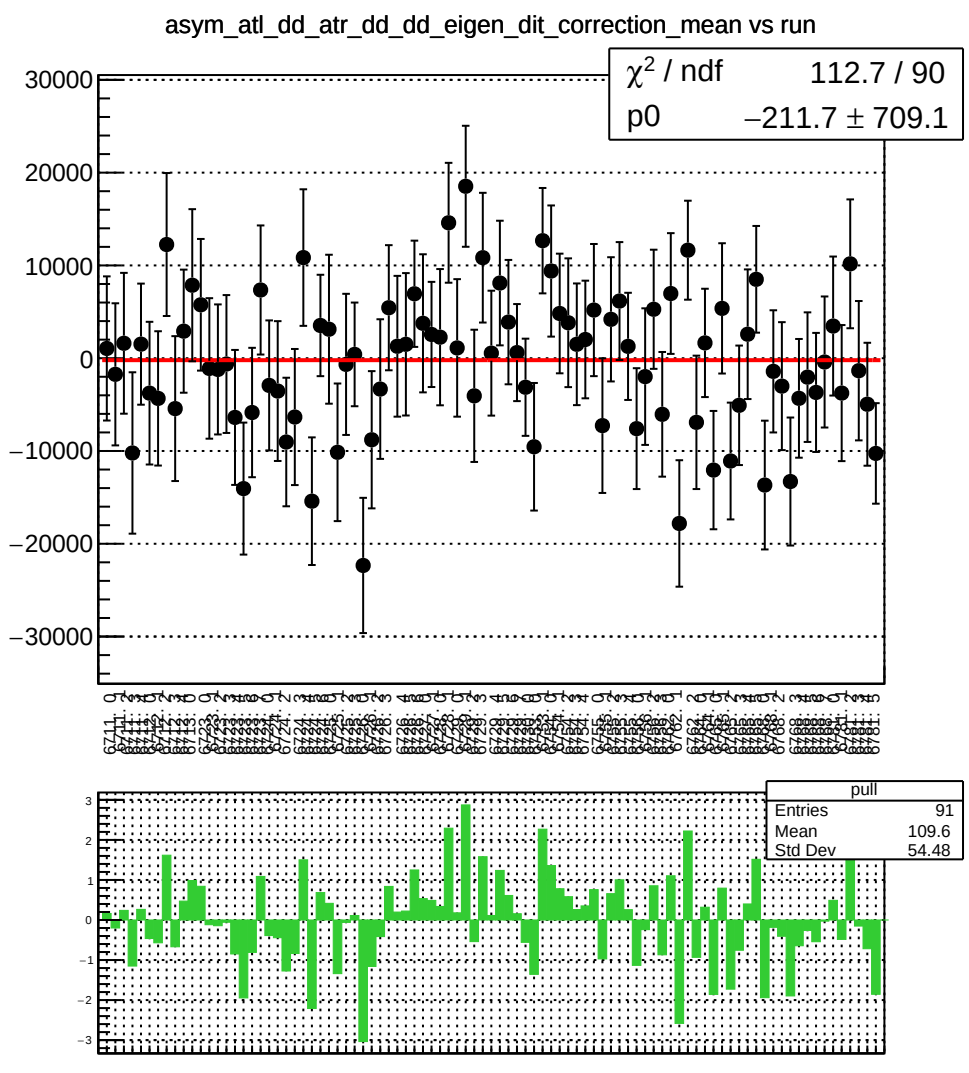

pull1D
Entries 91
Mean −0.02183
Std Dev 1.113

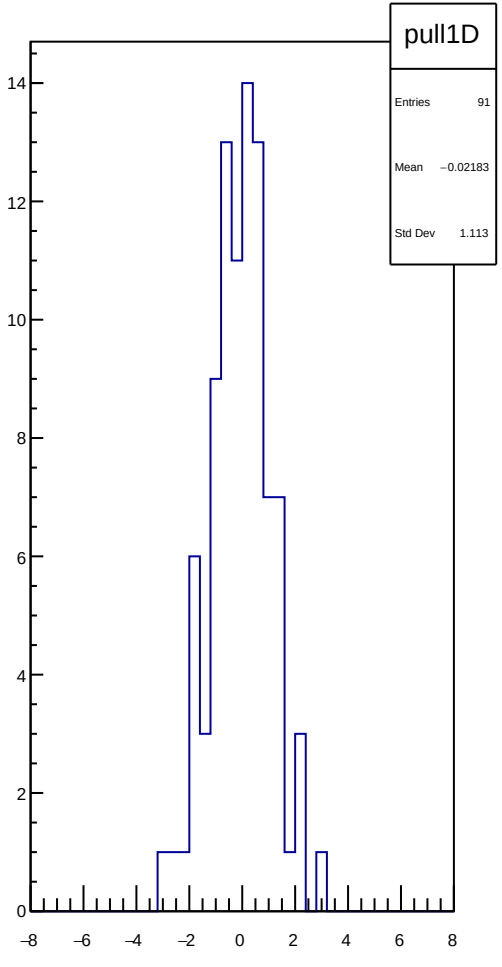

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 6947 / 90
p0 672.3 ± 0.5014
850
800
750
700
650
600


eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 102.2 / 90
p0 1641 ± 1316
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 303.9
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean −0.01713
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 283.7 / 90
p0 1249 ± 0.9302
1300
1280
1260
1240
1220
1200


asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 112.7 / 90
p0 −211.7 ± 709.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 109.6
Std Dev 54.48
3
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean −0.02183
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
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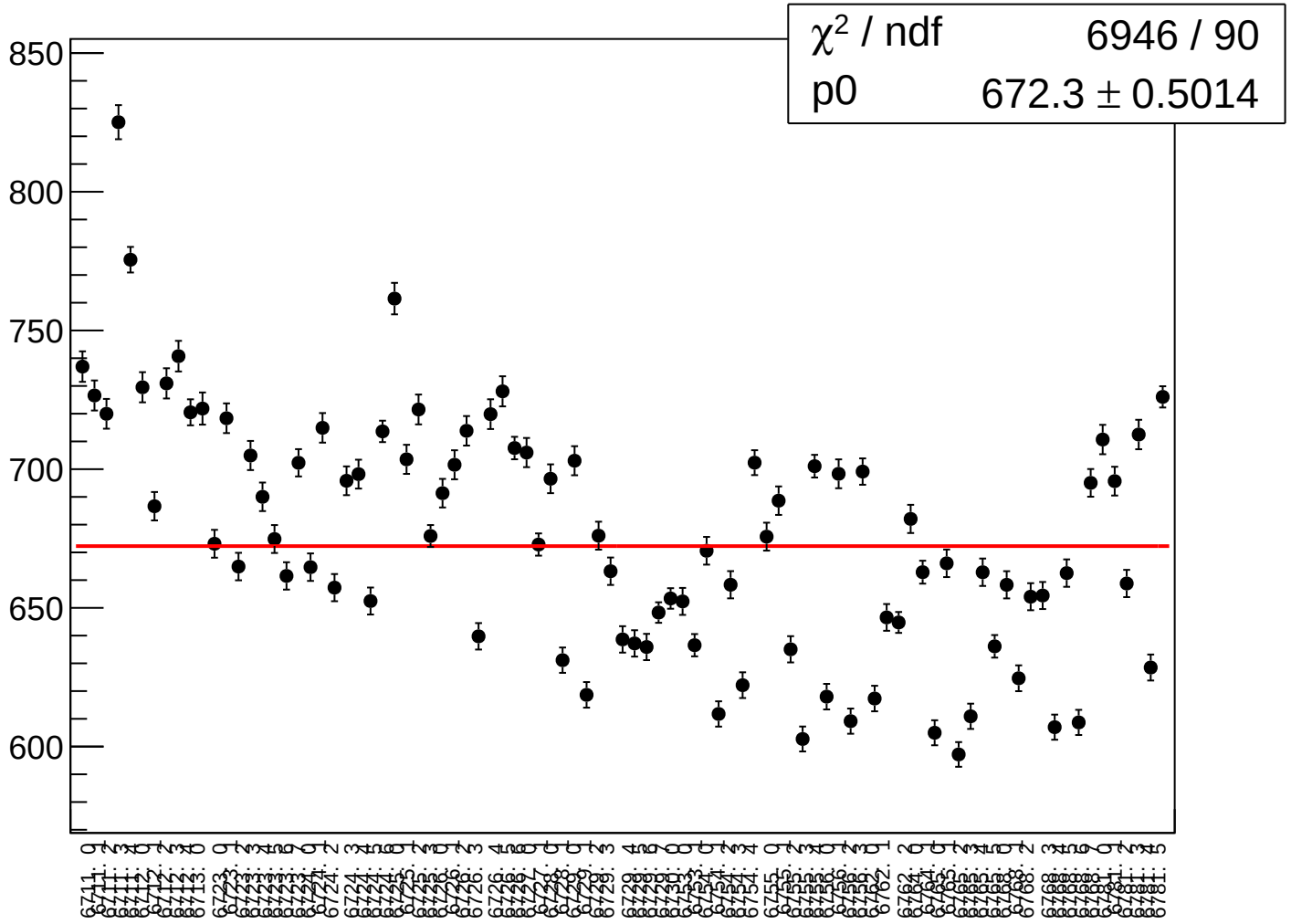
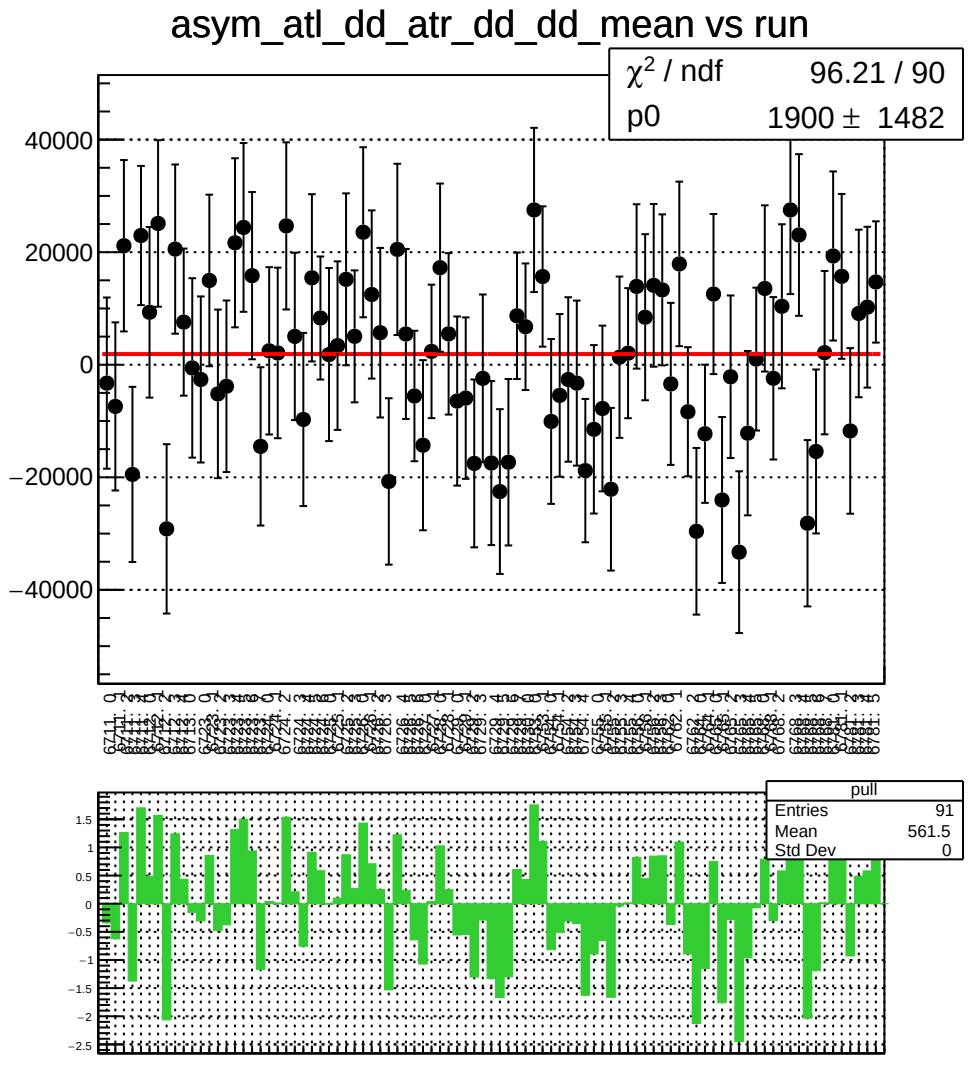
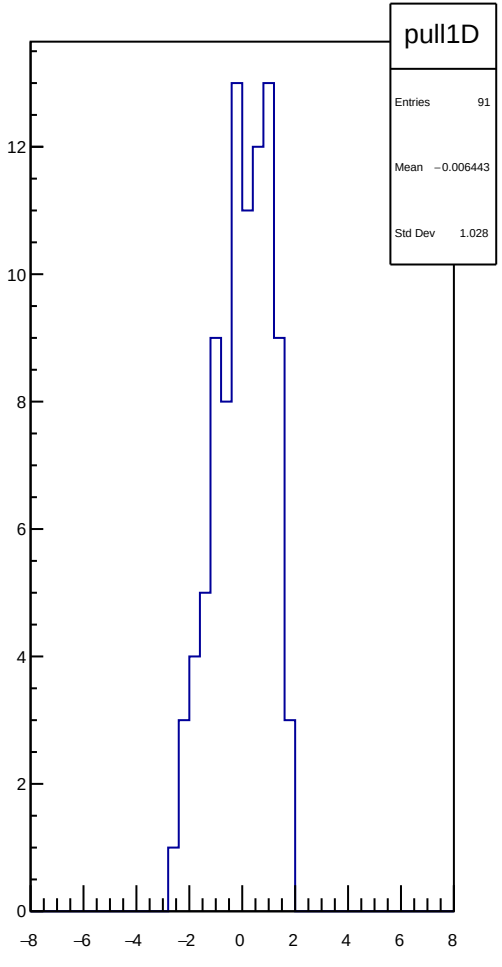
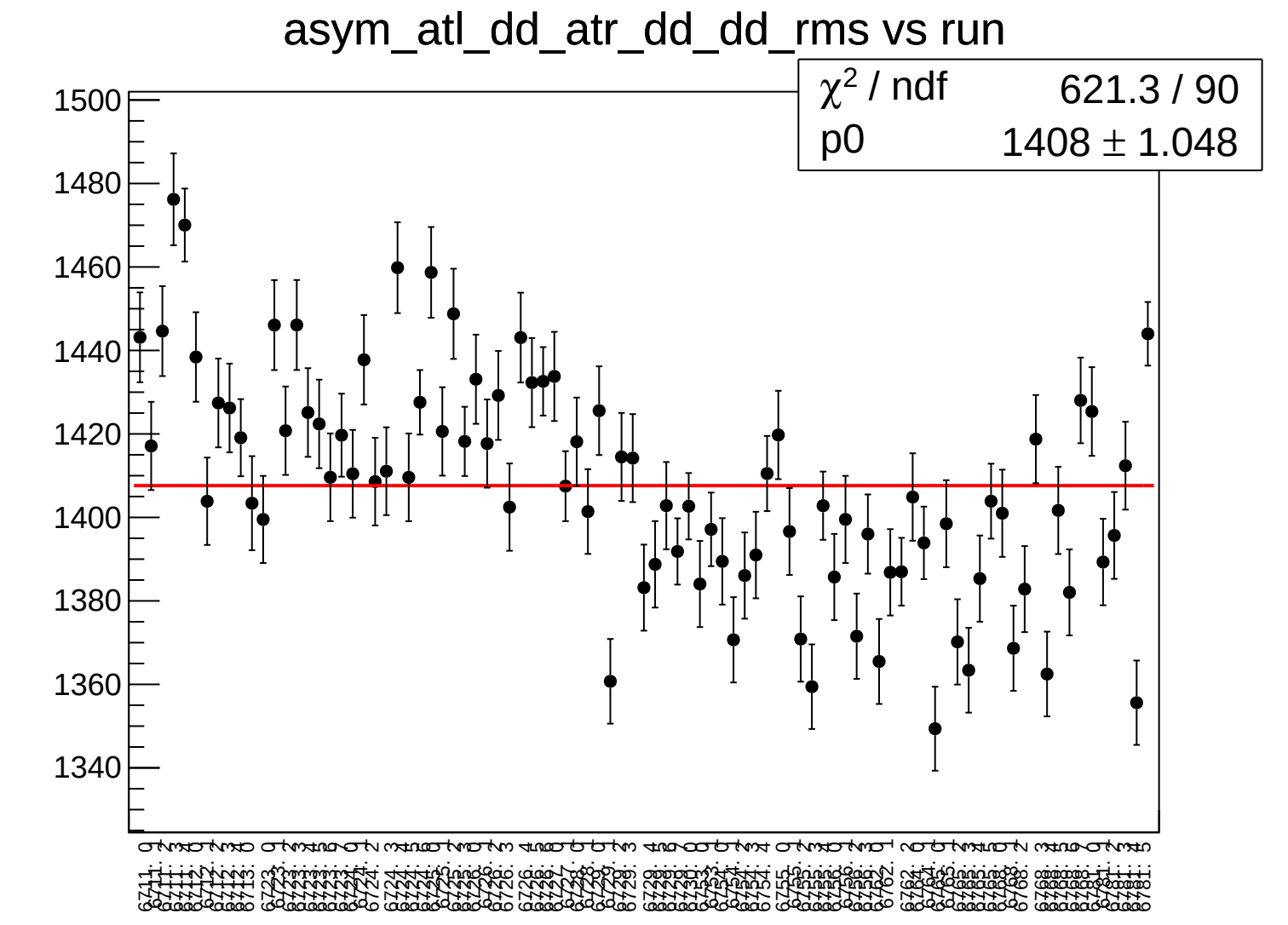
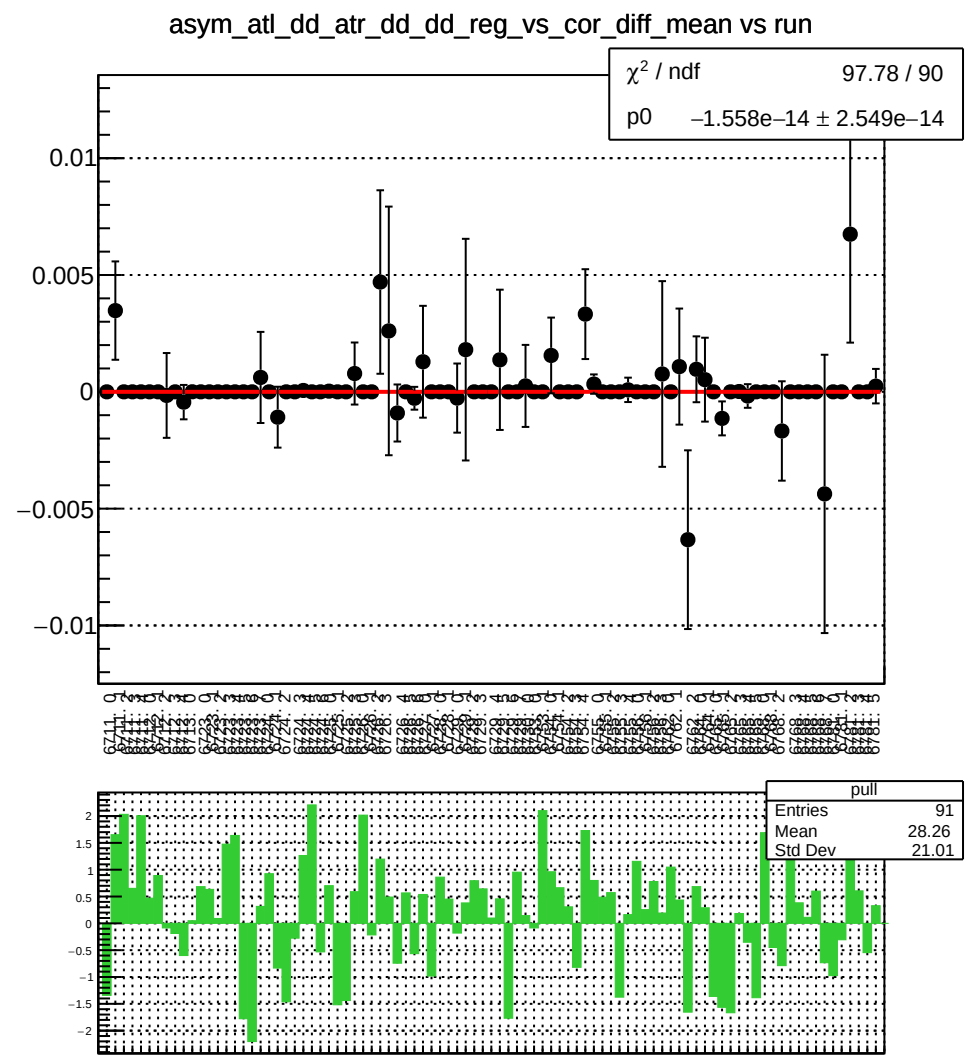
0
2
4
6
8

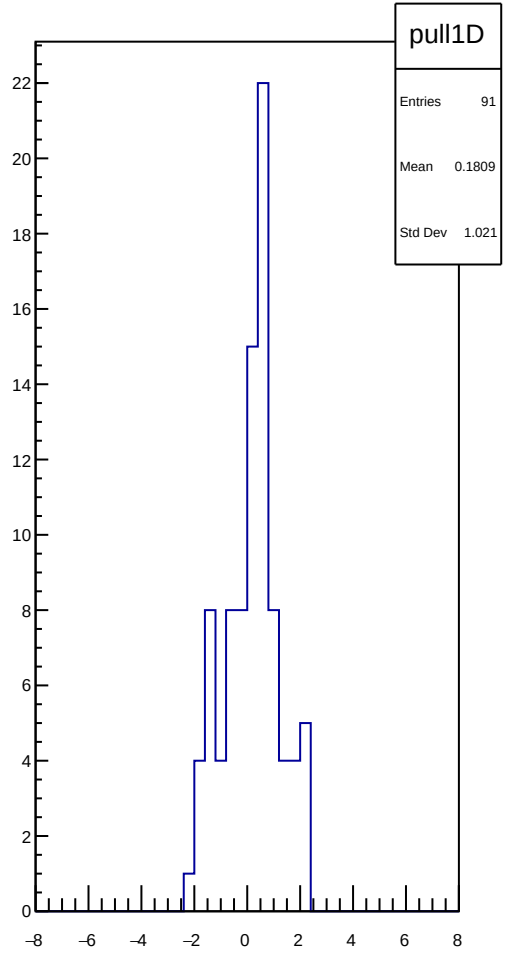

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 6946 / 90
p0 672.3 ± 0.5014
850
800
750
700
650
600

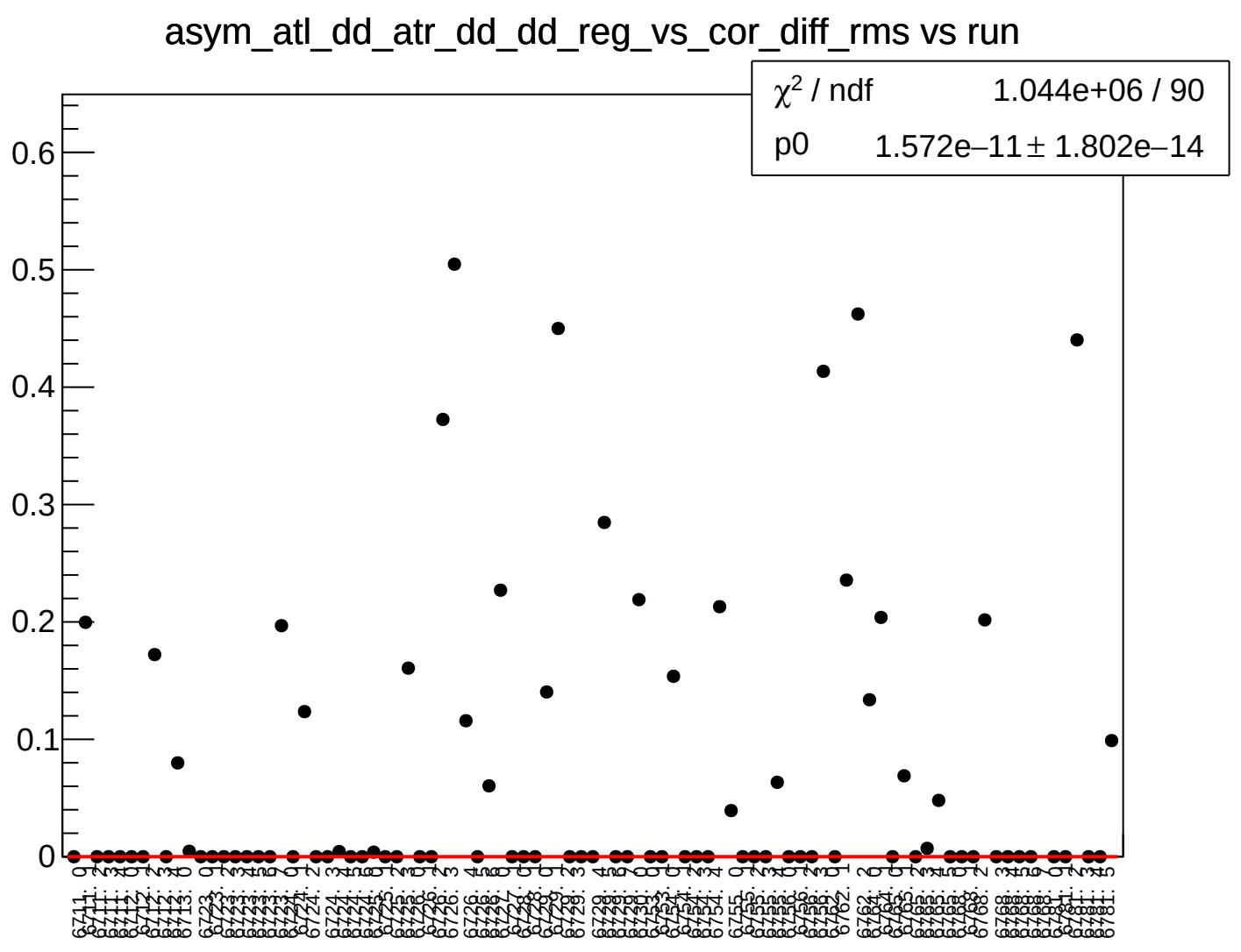

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 96.21 / 90
p0 1900 ± 1482
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 561.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

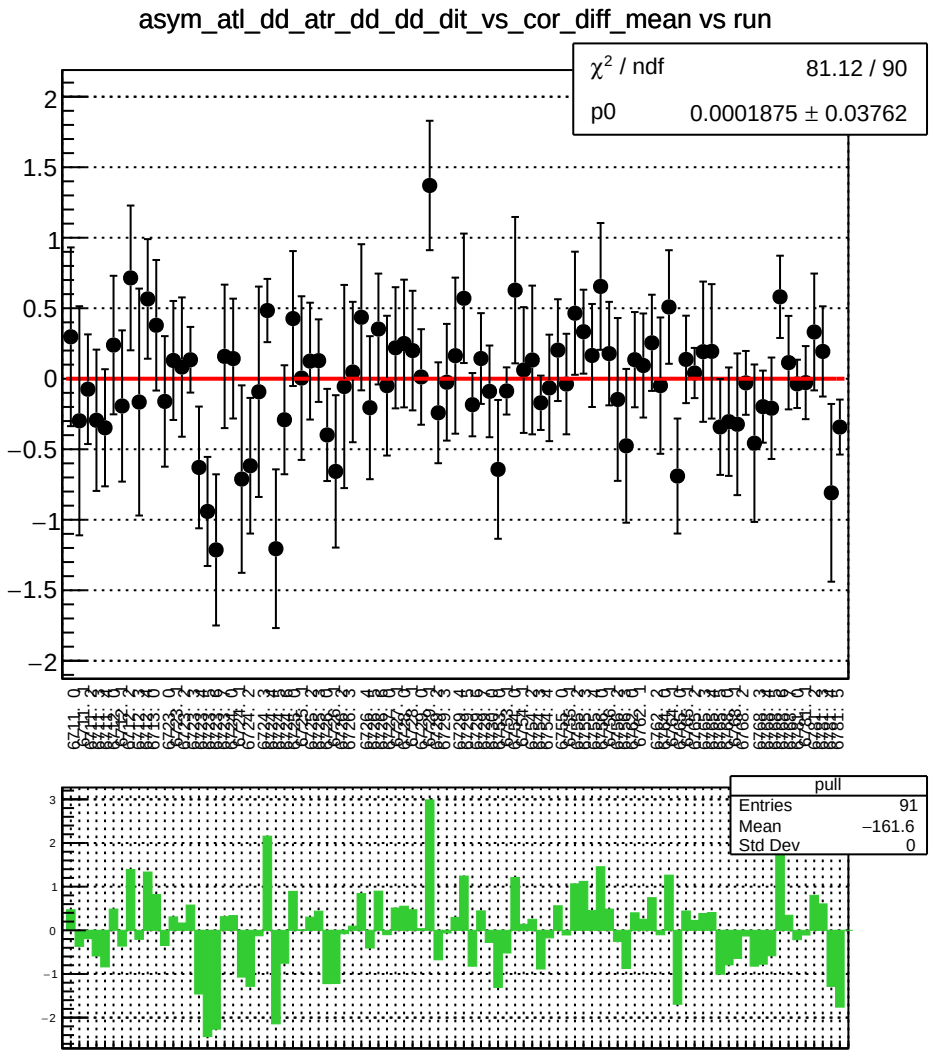

pull1D
Entries 91
Mean −0.006443
Std Dev 1.028
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

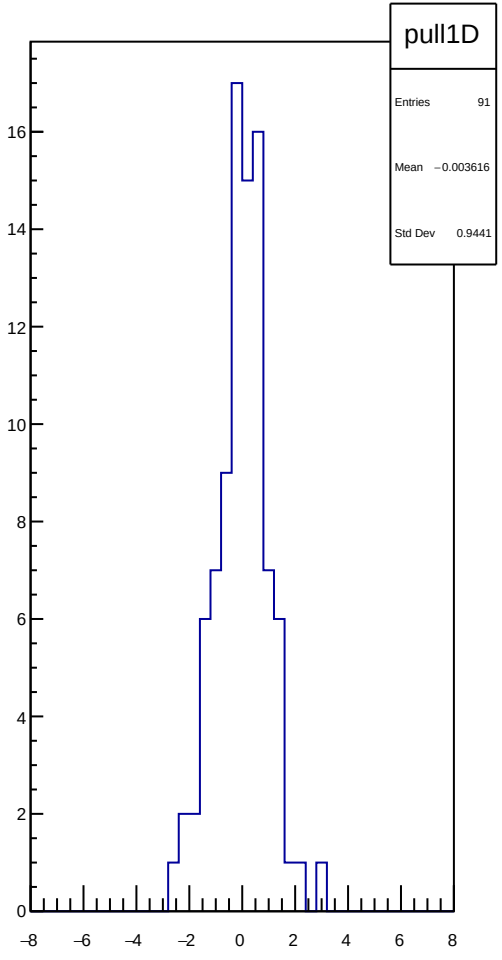

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 621.3 / 90
p0 1408 ± 1.048
1500
1480
1460
1440
1420
1400
1380
1360
1340

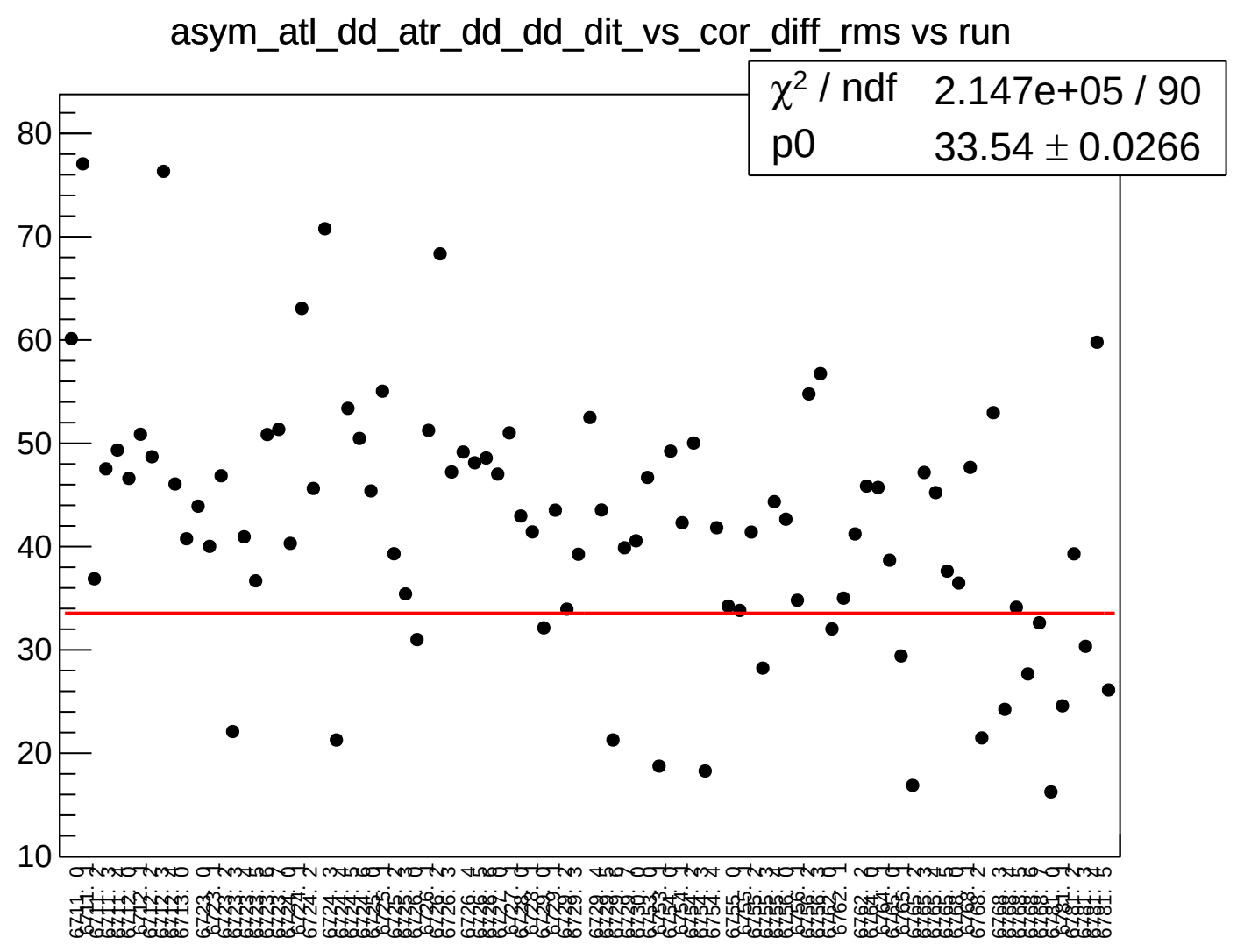

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.78 / 90
p0 −1.558e−14 ± 2.549e−14
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean 28.26
Std Dev 21.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

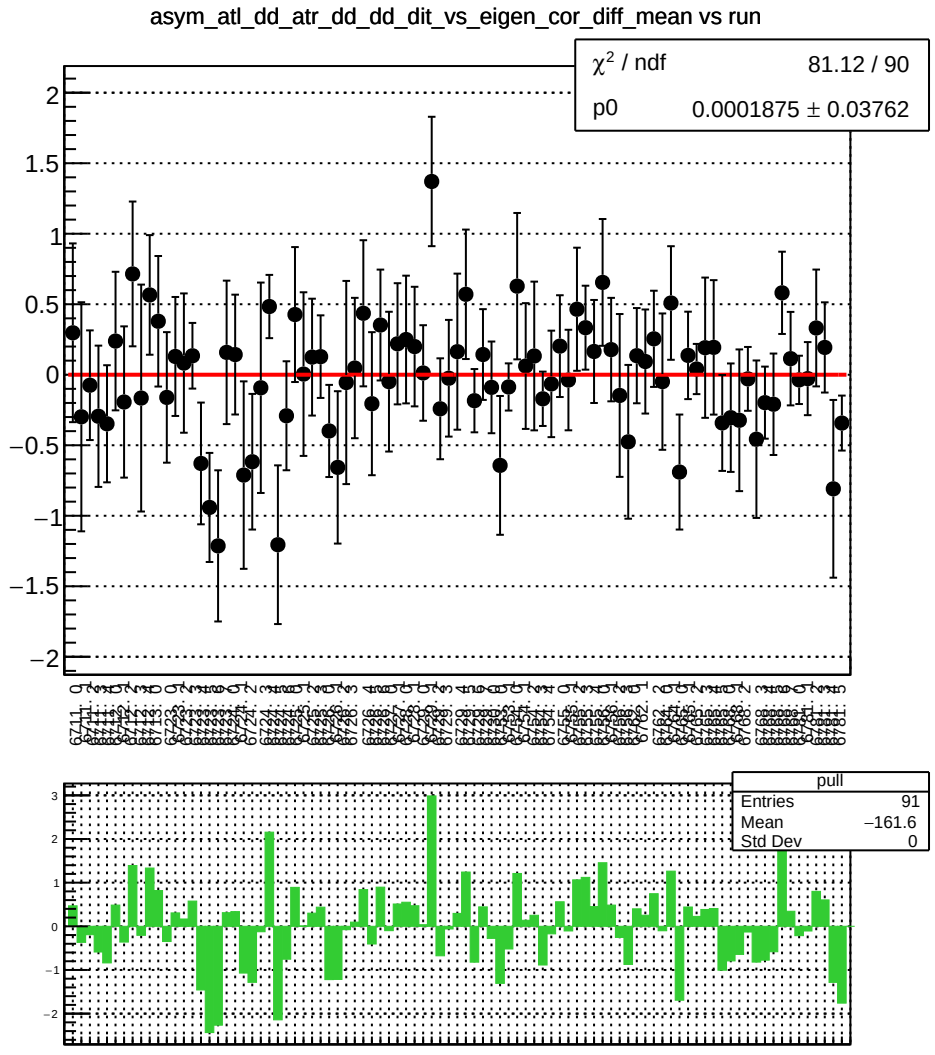

pull1D
Entries 91
Mean 0.1809
Std Dev 1.021
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

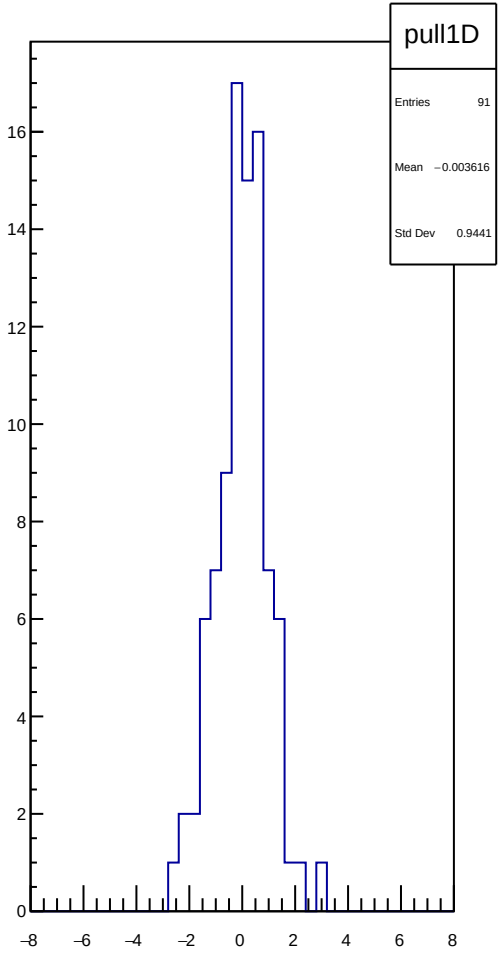

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.044e+06 / 90
p0 1.572e−11 ± 1.802e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

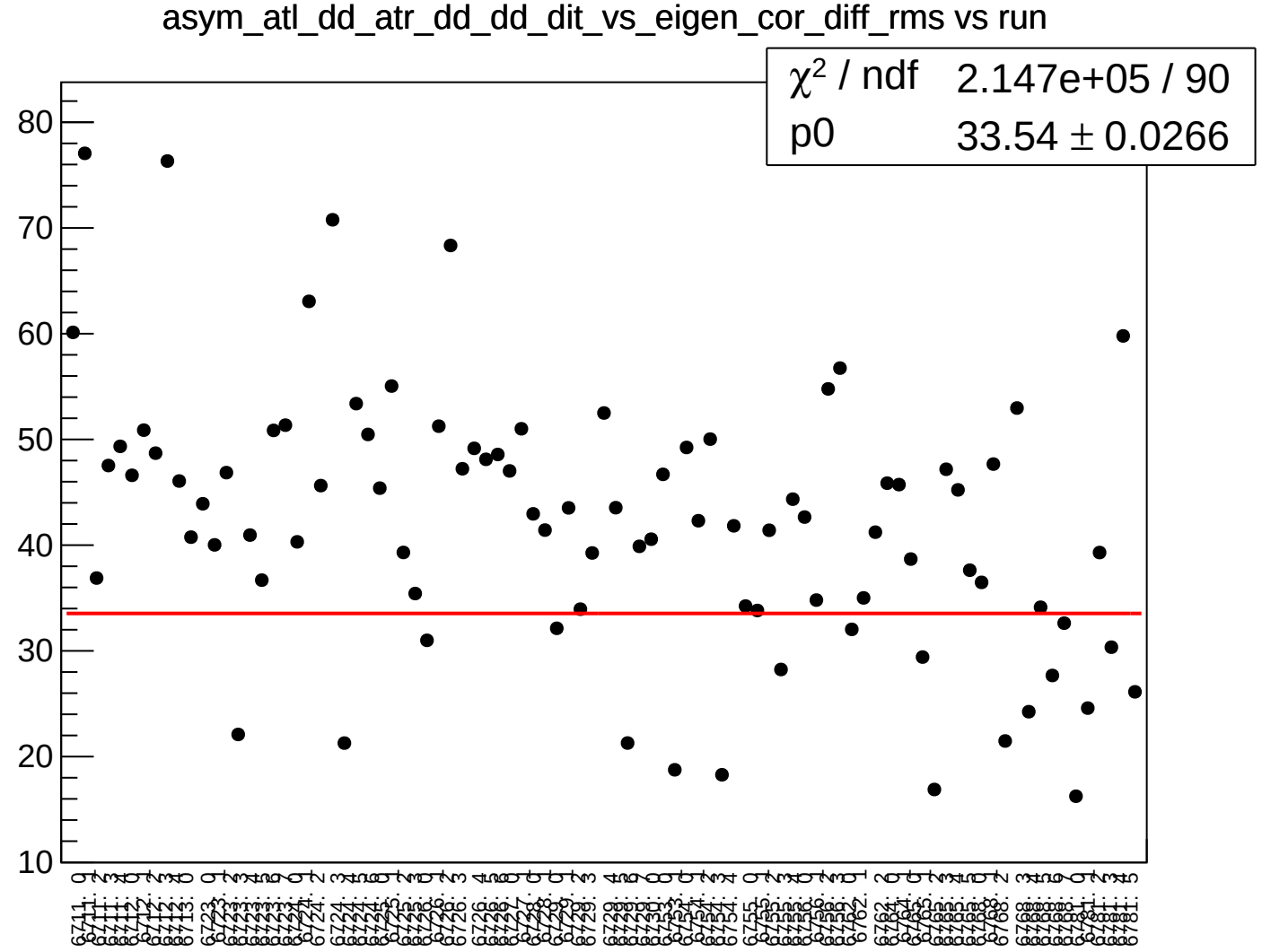

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.12 / 90
p0 0.0001875 ± 0.03762
pull
Entries 91
Mean −161.6
Std Dev 0

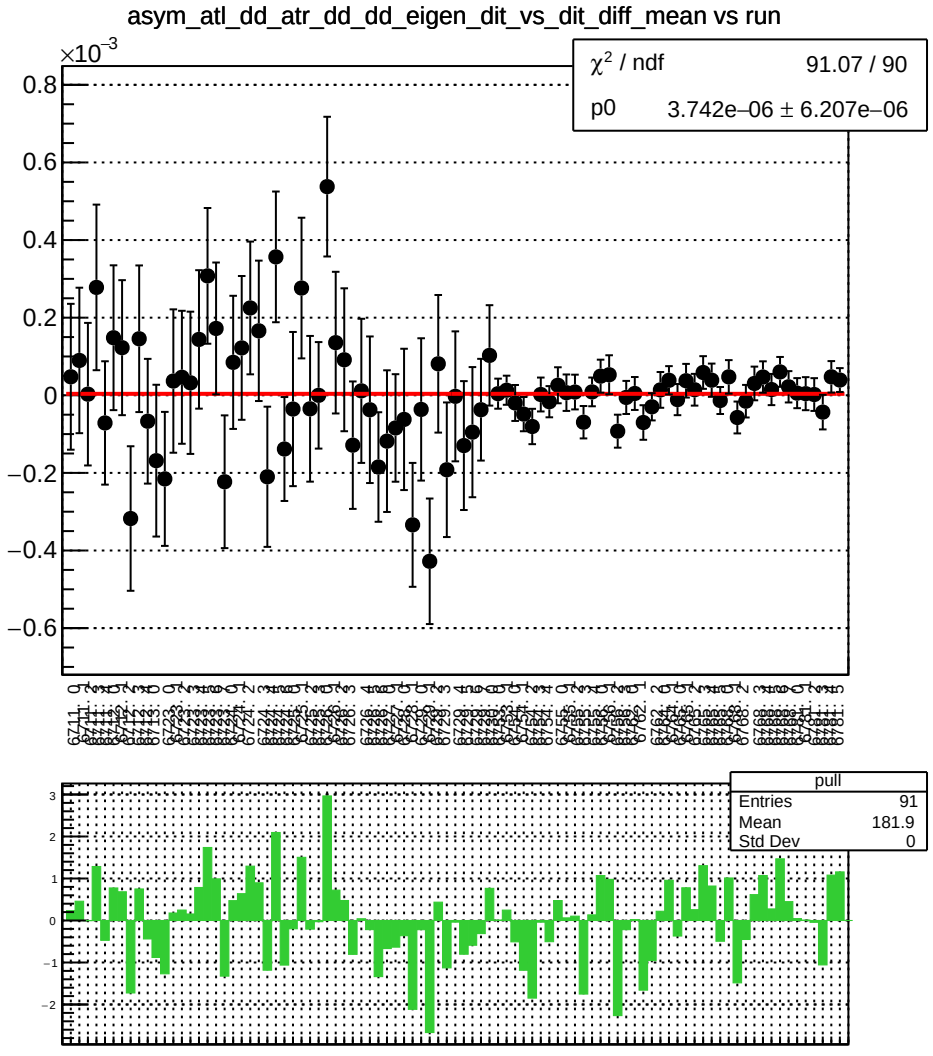

pull1D
Entries 91
Mean −0.003616
Std Dev 0.9441

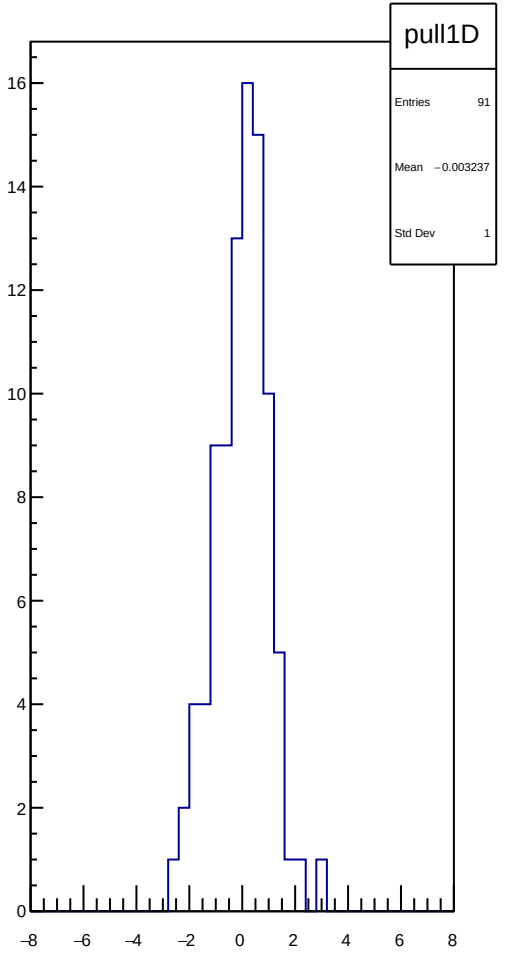

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.147e+05 / 90
p0 33.54 ± 0.0266
80
70
60
50
40
30
20
10

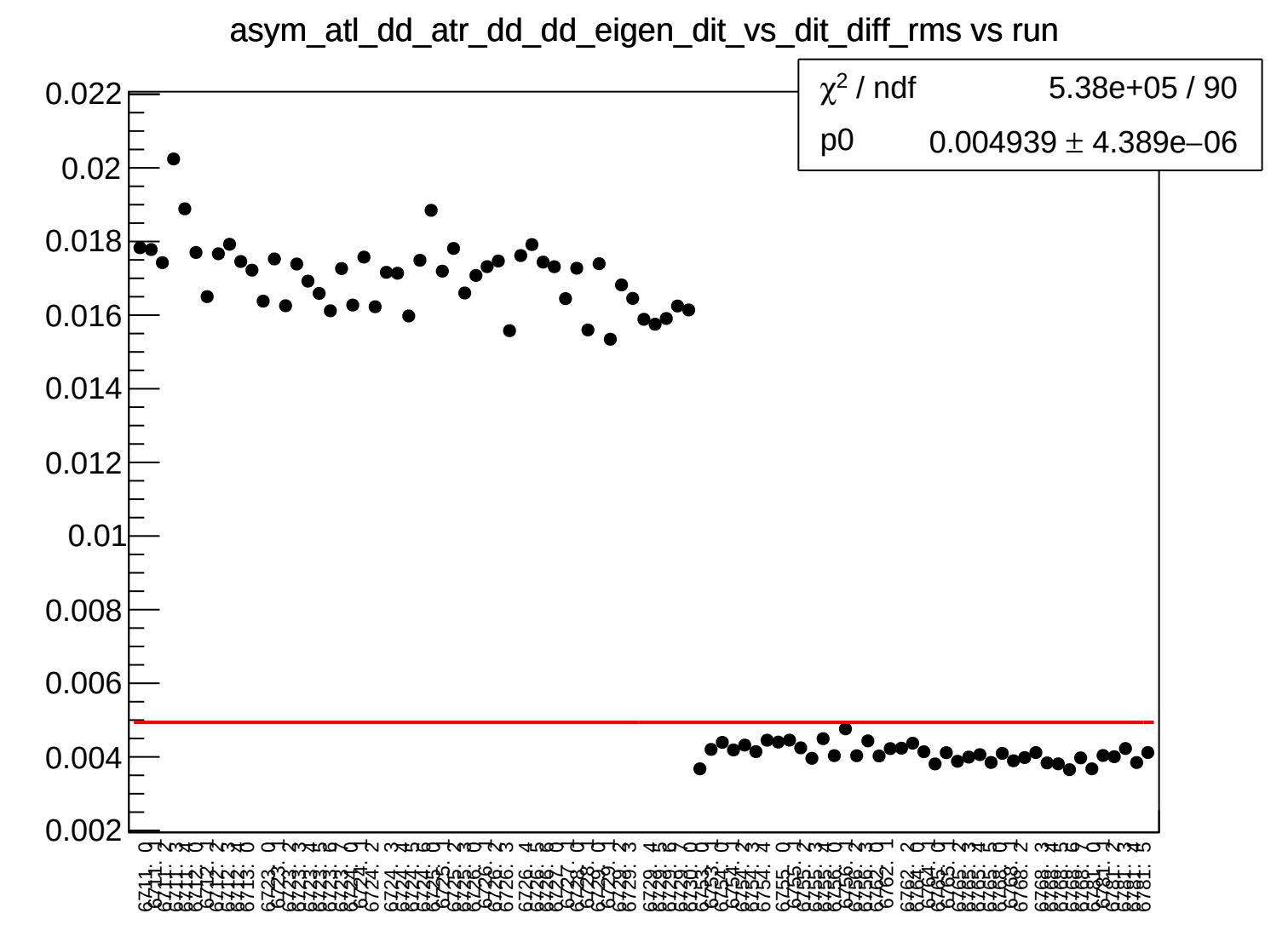

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.12 / 90
p0 0.0001875 ± 0.03762
pull
Entries 91
Mean −161.6
Std Dev 0

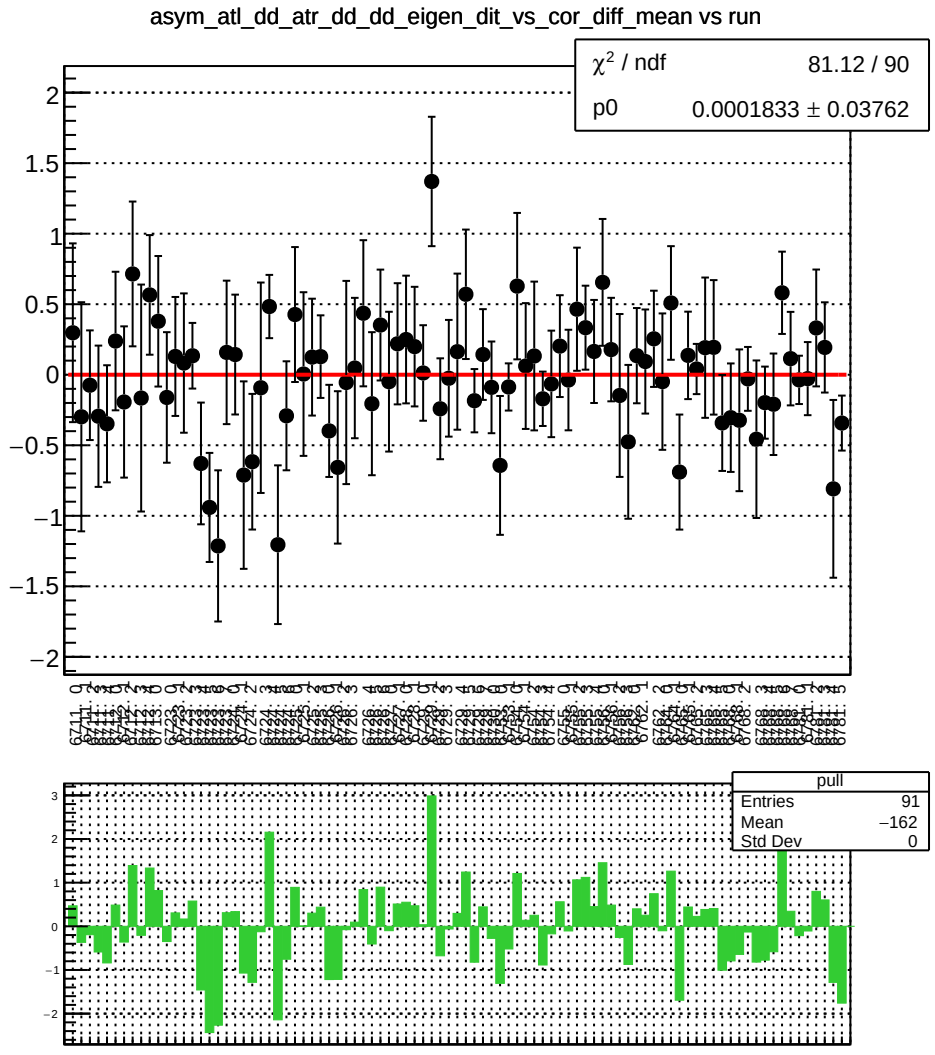

pull1D
Entries 91
Mean −0.003616
Std Dev 0.9441

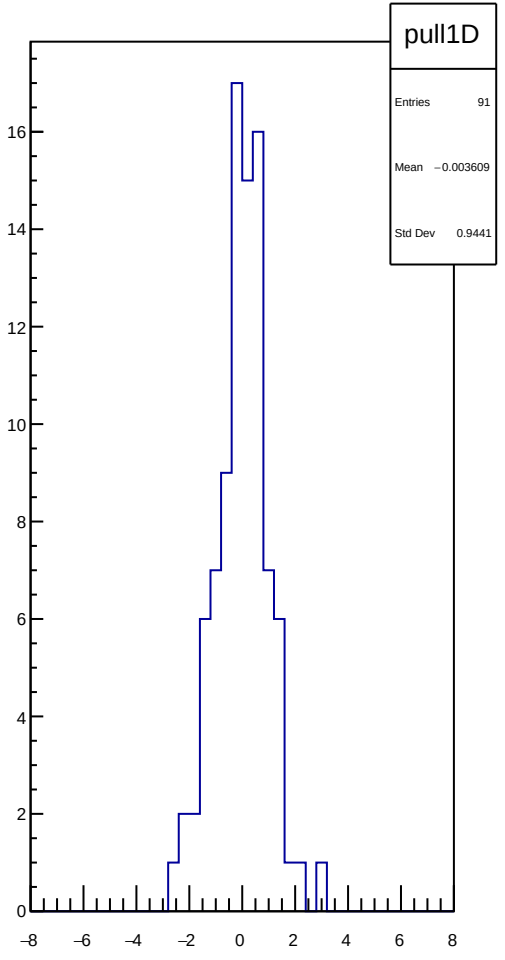

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.147e+05 / 90
p0 33.54 ± 0.0266
80
70
60
50
40
30
20
10

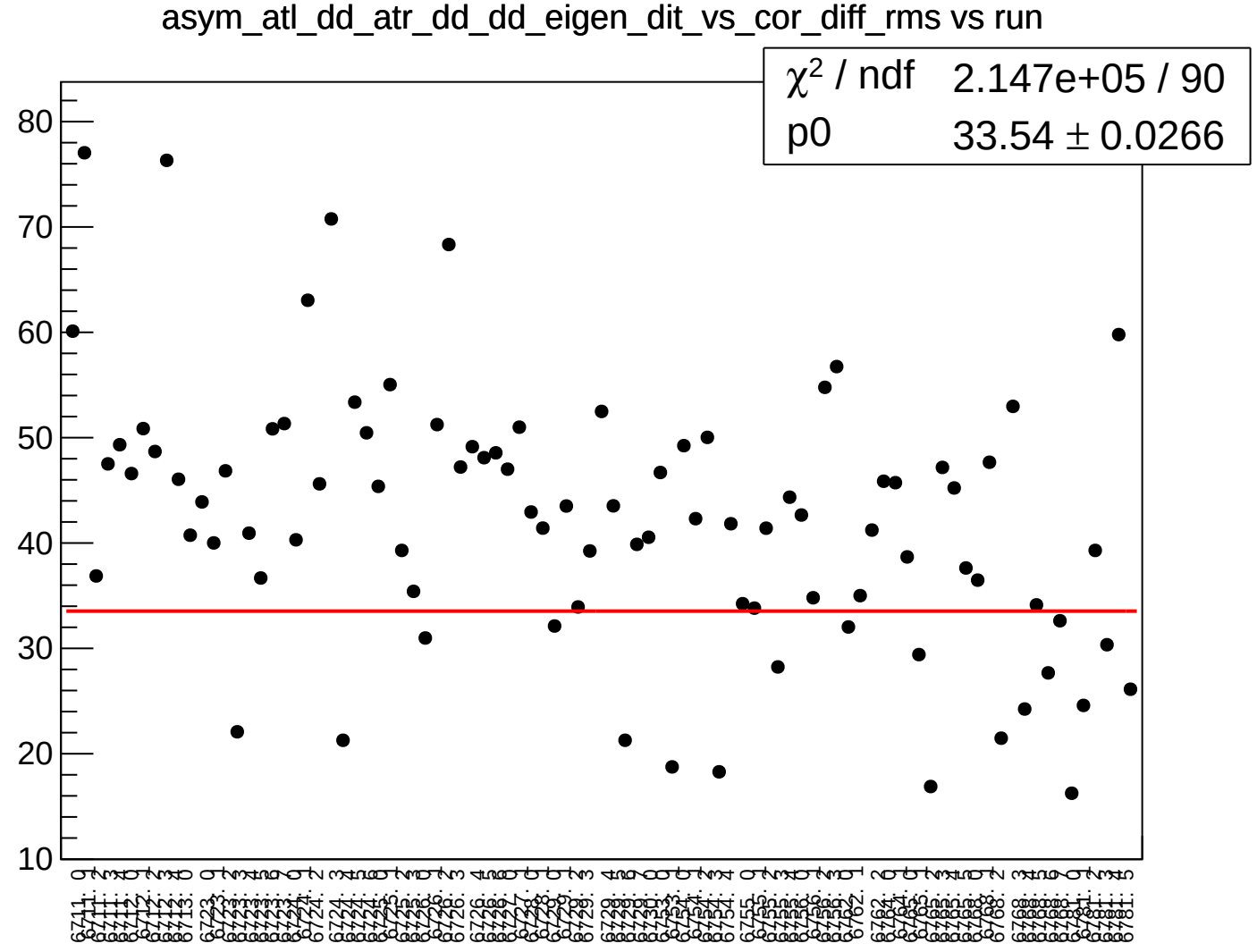

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.07 / 90
p0 3.742e−06 ± 6.207e−06
pull
Entries 91
Mean 181.9
Std Dev 0

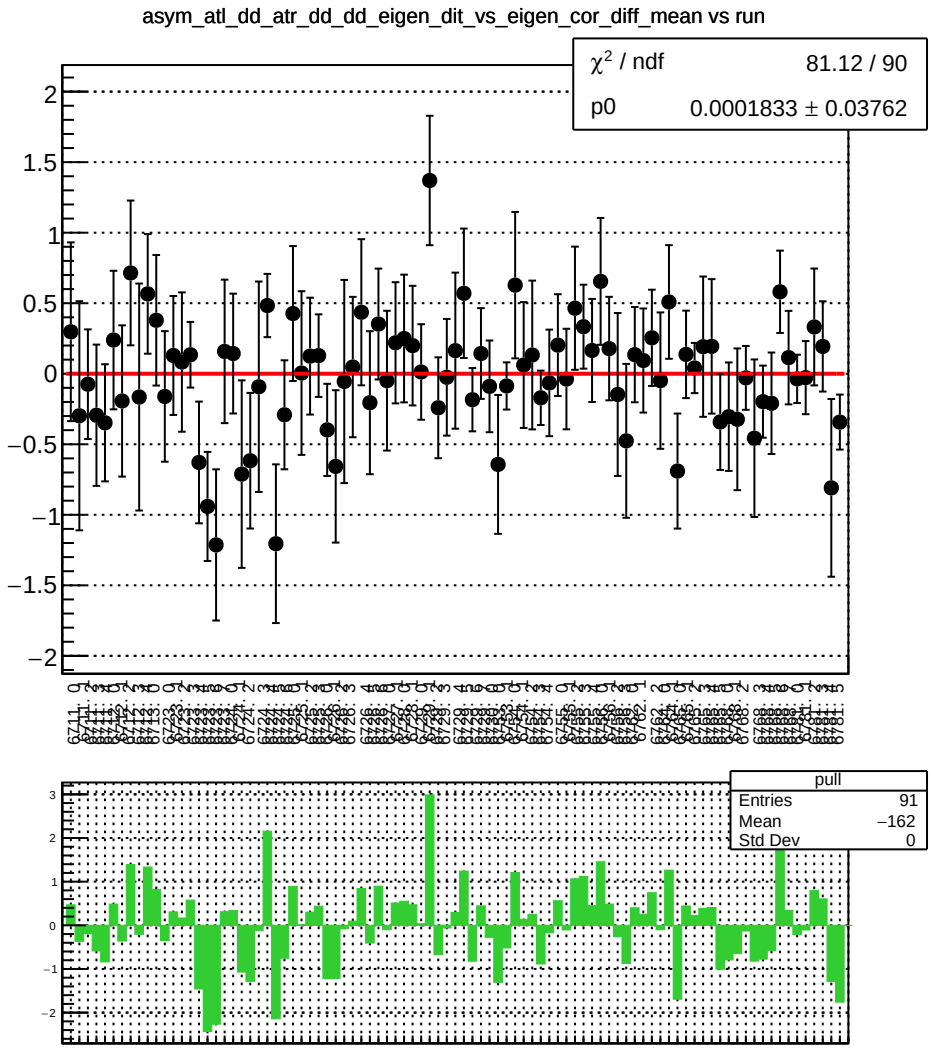

pull1D
Entries 91
Mean −0.003237
Std Dev 1

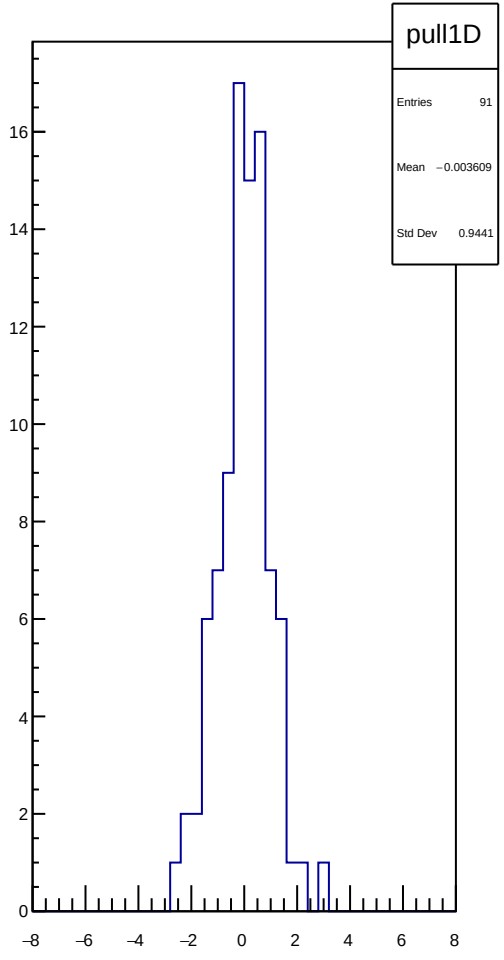

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.38e+05 / 90
p0 0.004939 ± 4.389e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

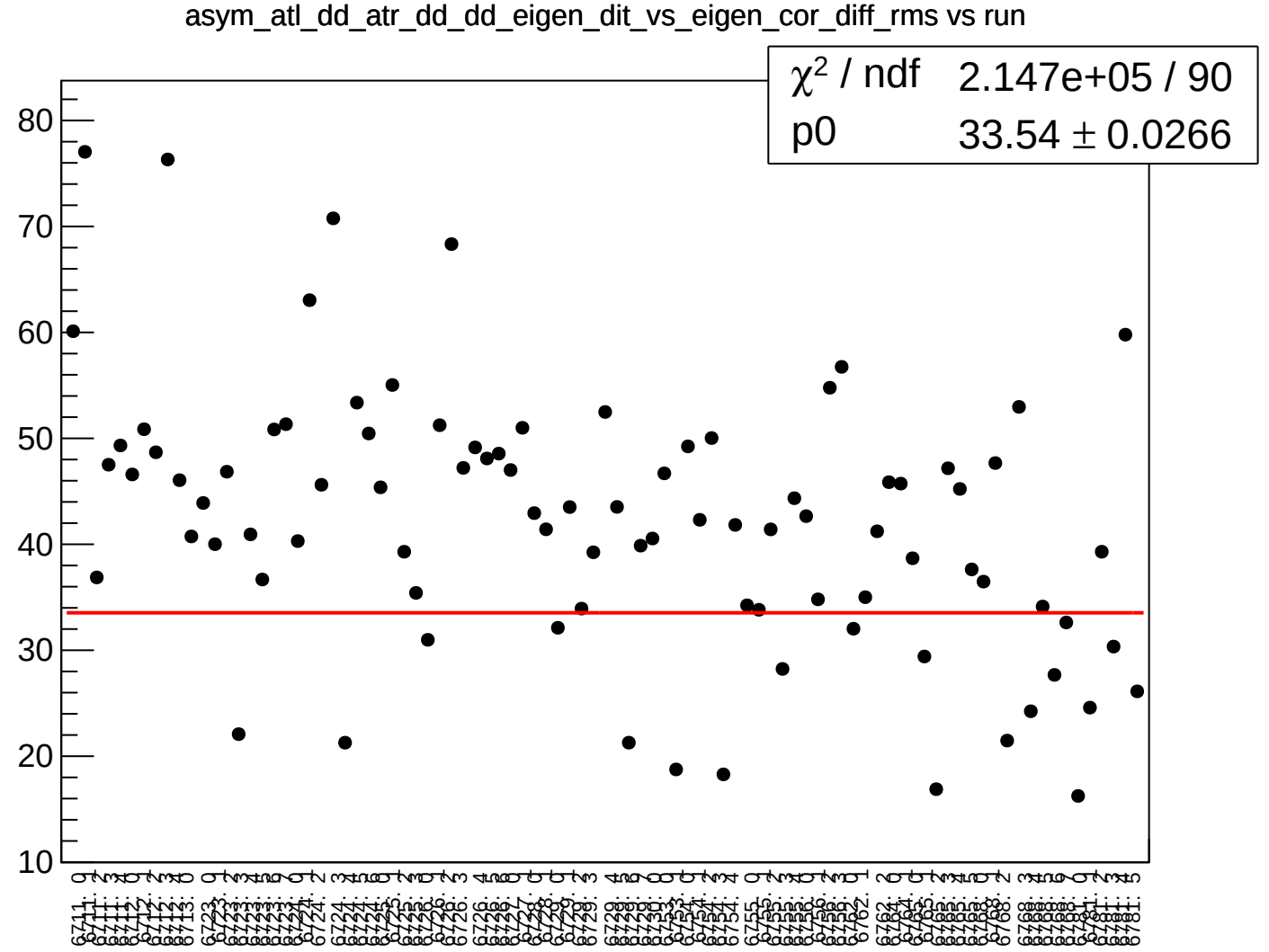

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.12 / 90
p0 0.0001833 ± 0.03762
pull
Entries 91
Mean −162
Std Dev 0

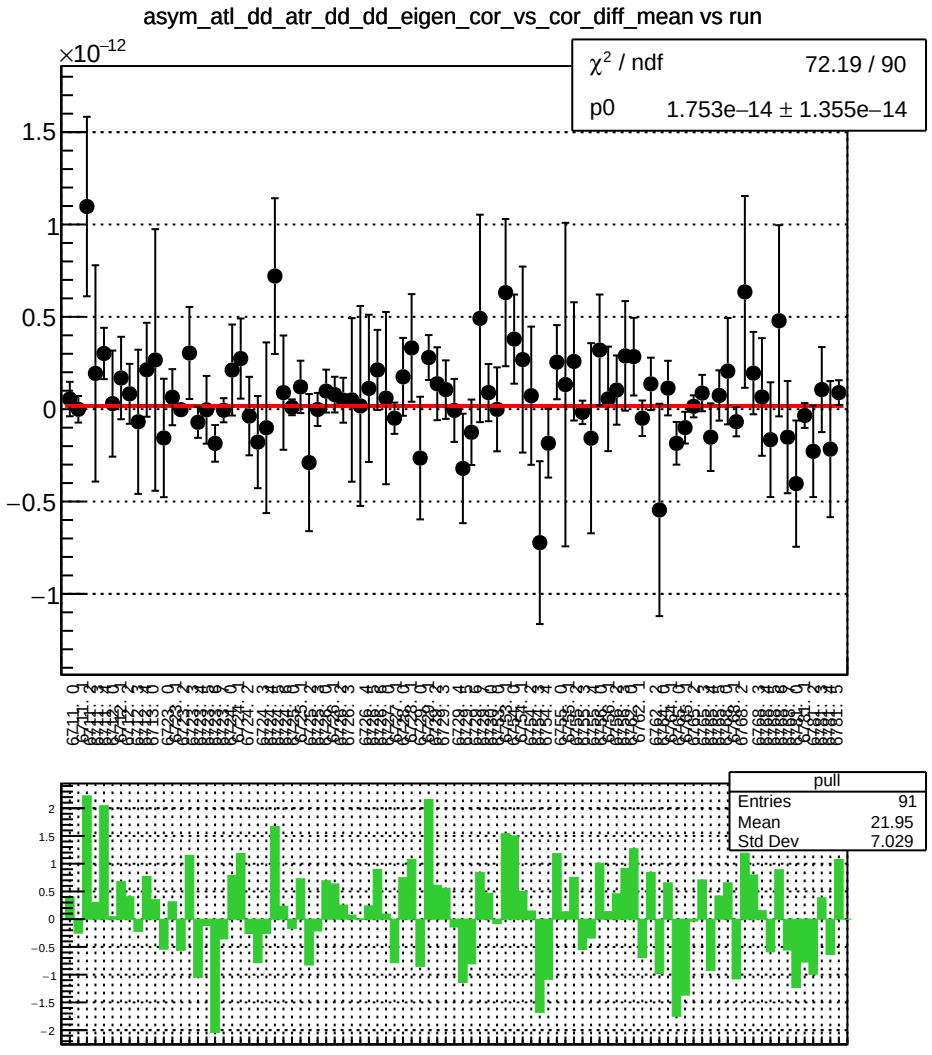

pull1D
Entries 91
Mean −0.003609
Std Dev 0.9441

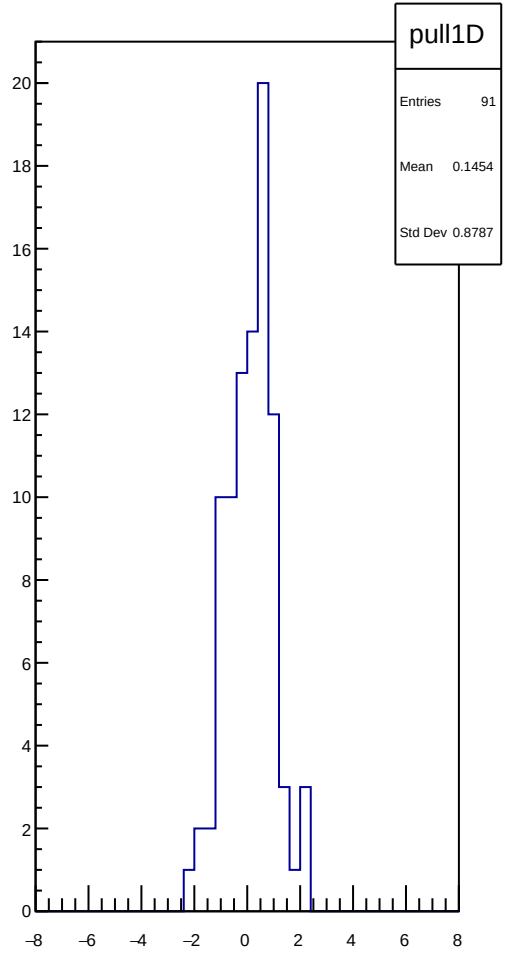

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.147e+05 / 90
p0 33.54 ± 0.0266
80
70
60
50
40
30
20
10

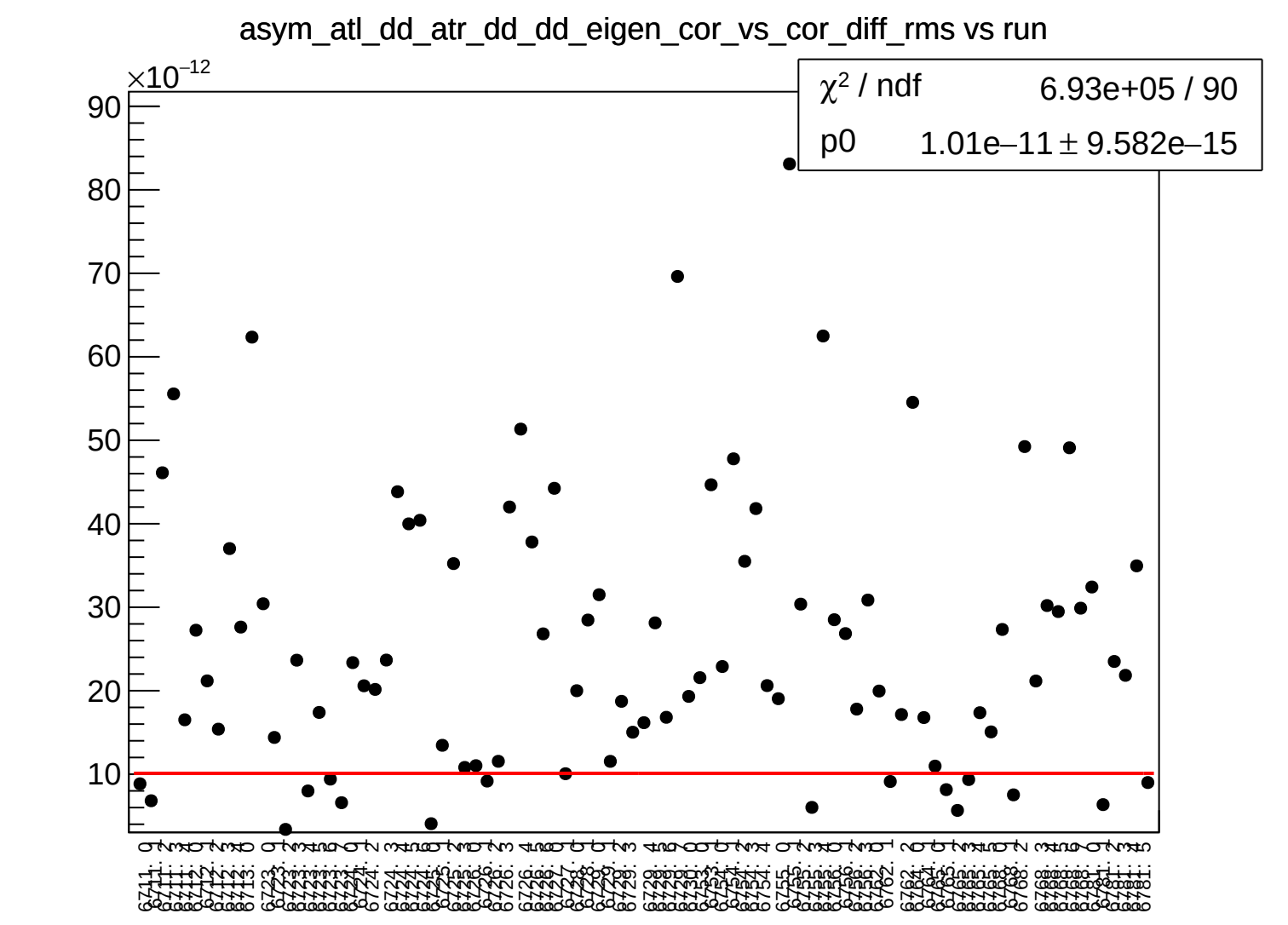

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.12 / 90
p0 0.0001833 ± 0.03762
pull
Entries 91
Mean −162
Std Dev 0

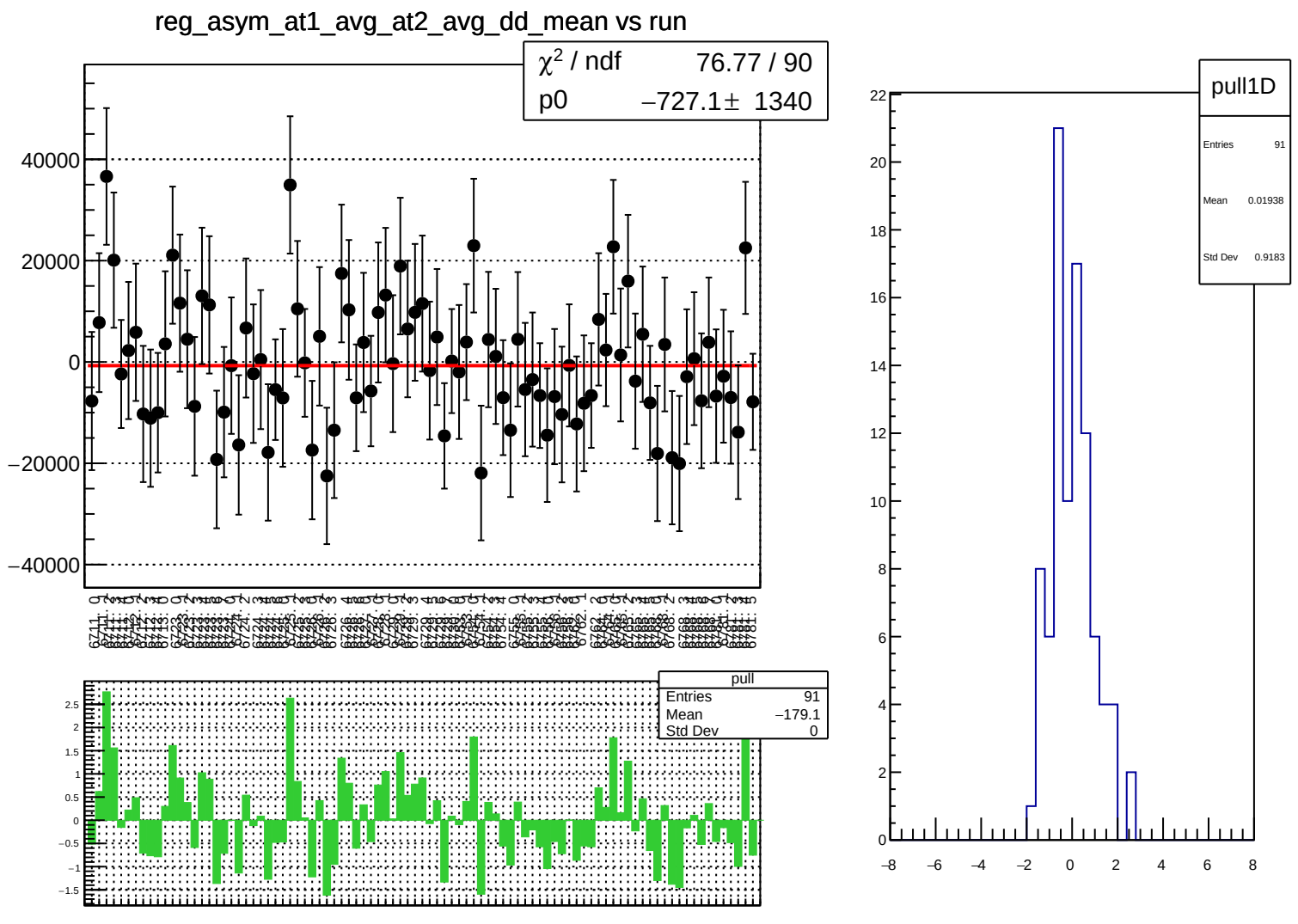

pull1D
Entries 91
Mean −0.003609
Std Dev 0.9441

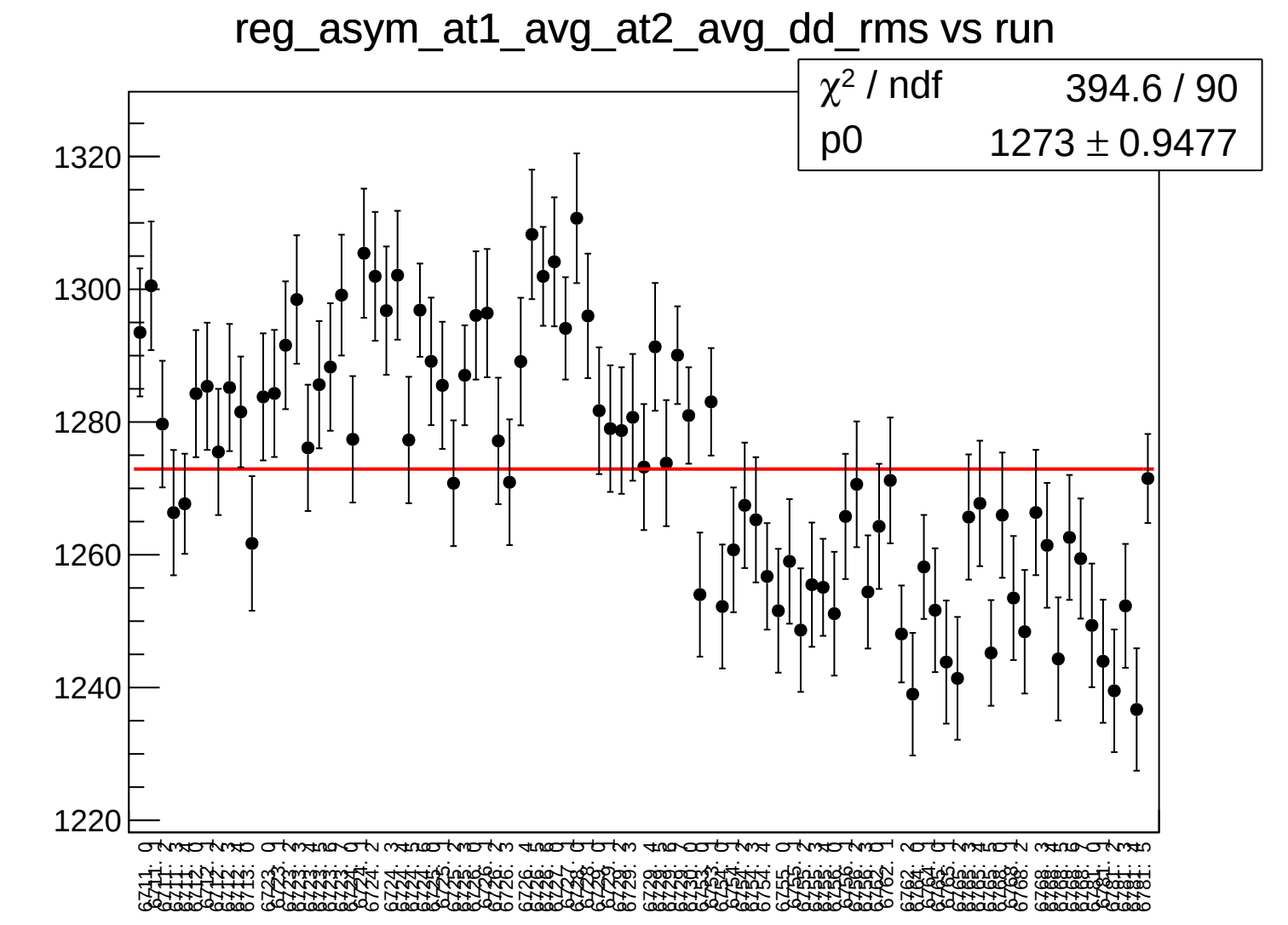

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.147e+05 / 90
p0 33.54 ± 0.0266
80
70
60
50
40
30
20
10

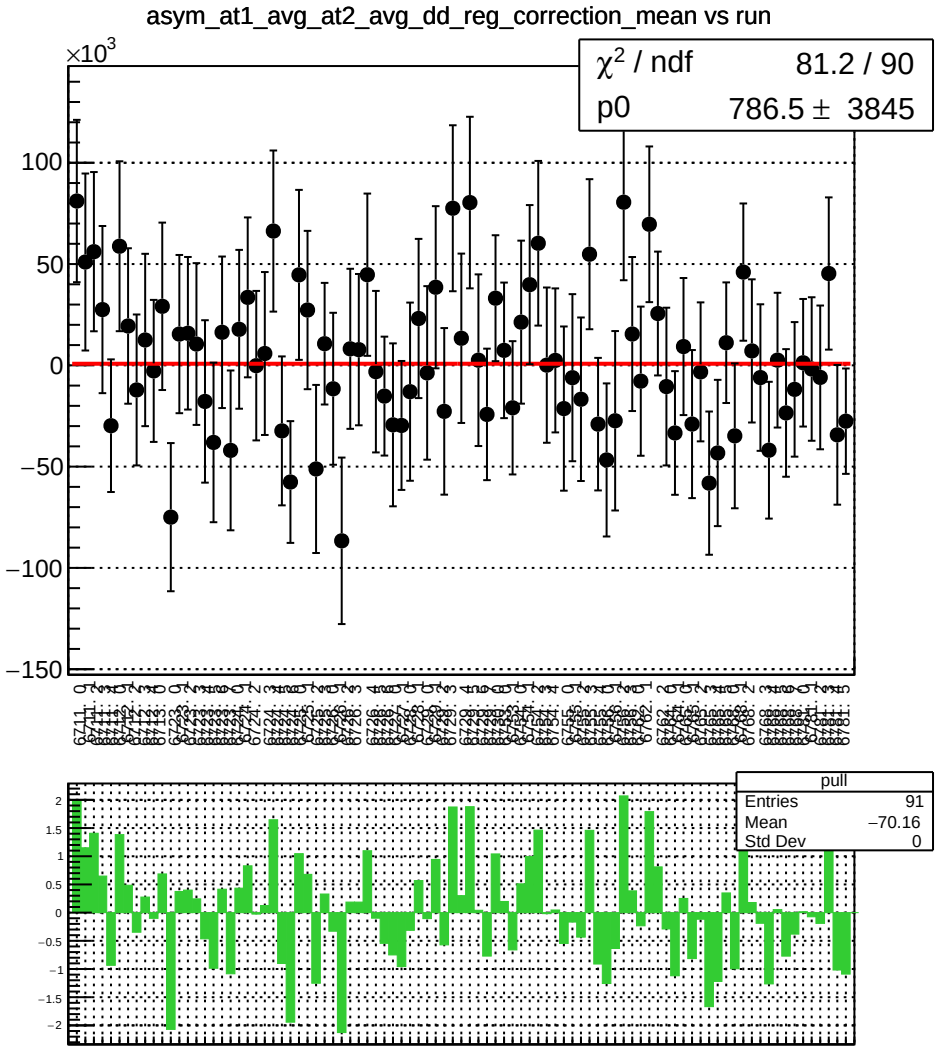

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.19 / 90
p0 1.753e−14 ± 1.355e−14
pull
Entries 91
Mean 21.95
Std Dev 7.029

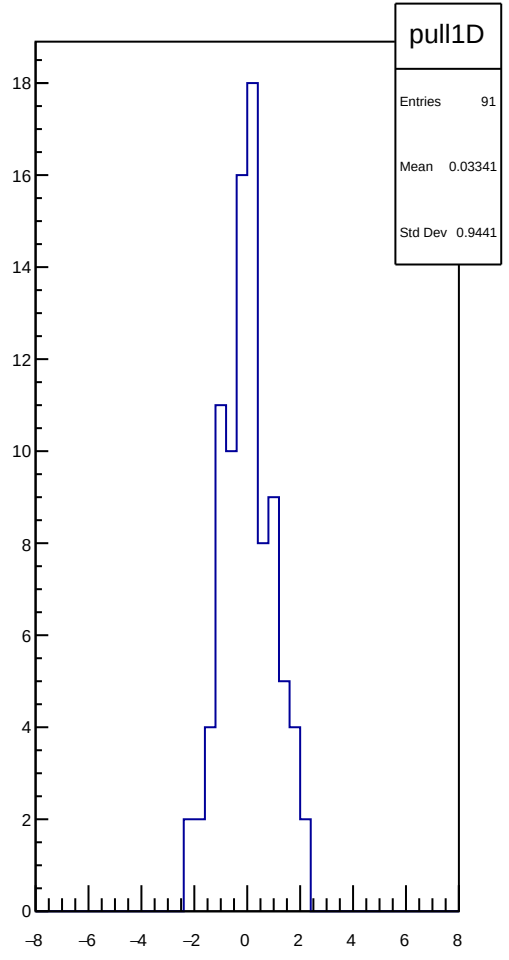

pull1D
Entries 91
Mean 0.1454
Std Dev 0.8787

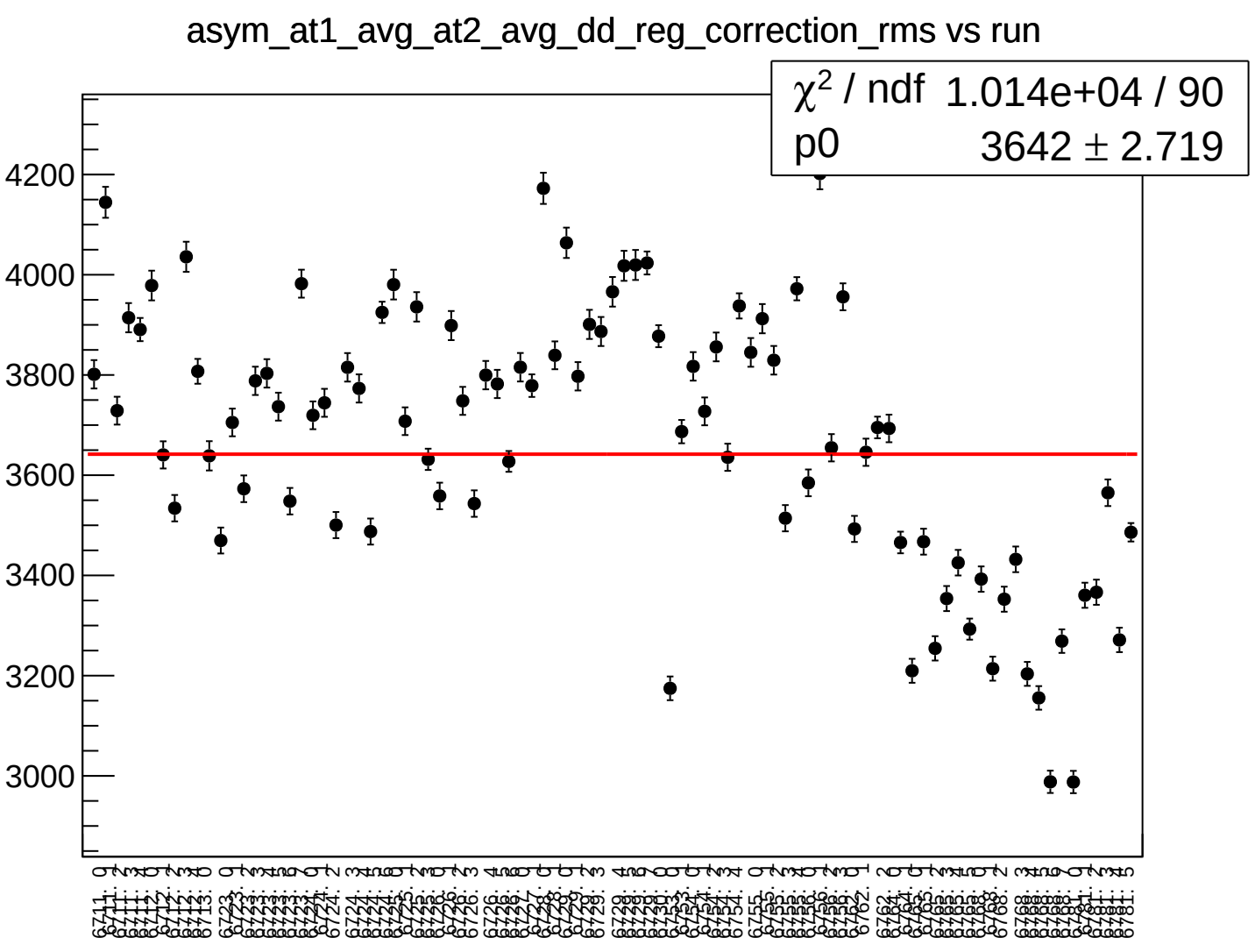

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.93e+05 / 90
p0 1.01e−11 ± 9.582e−15
90
80
70
60
50
40
30
20
10

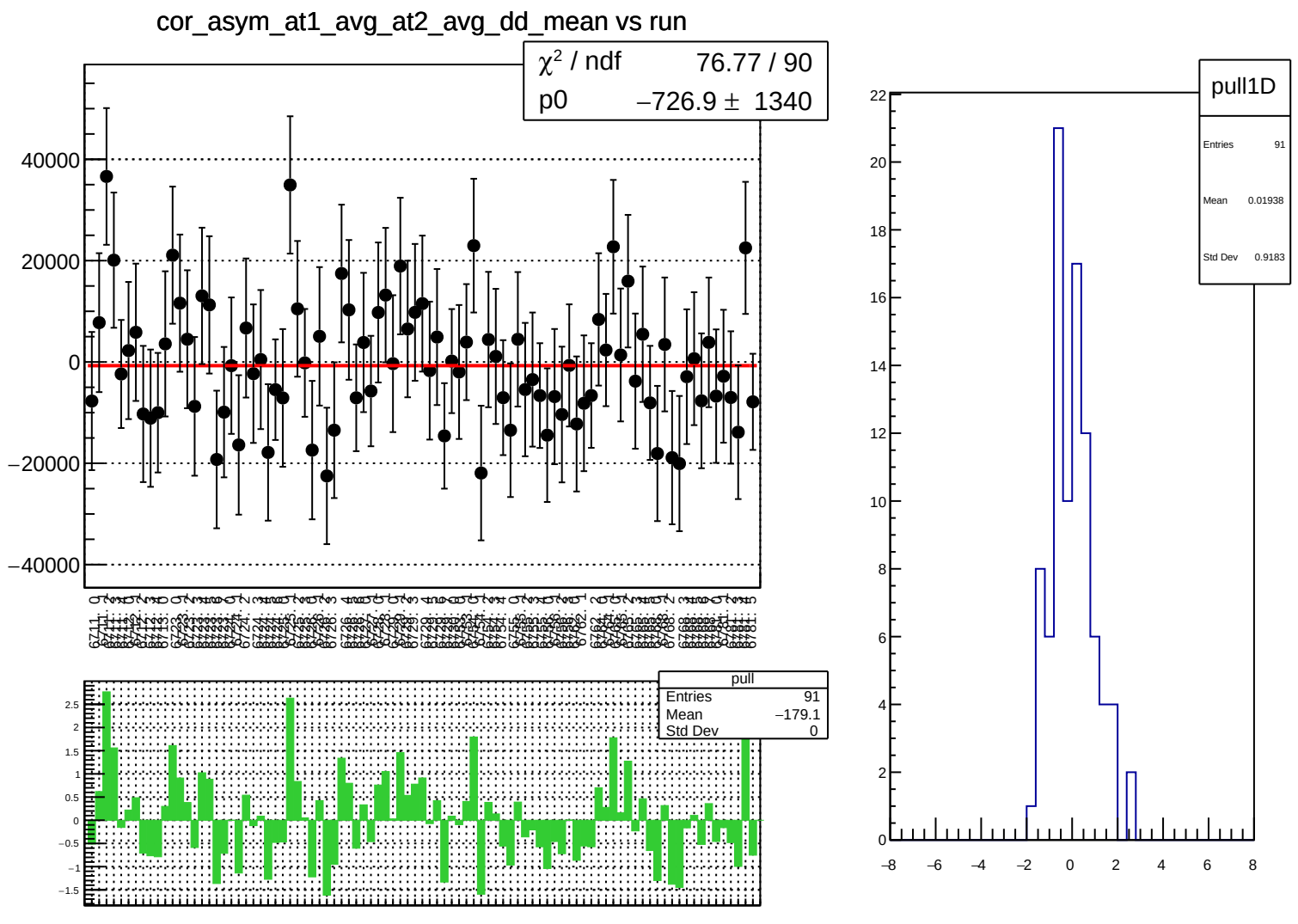

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 76.77 / 90
p0 −727.1± 1340
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −179.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean 0.01938
Std Dev 0.9183
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

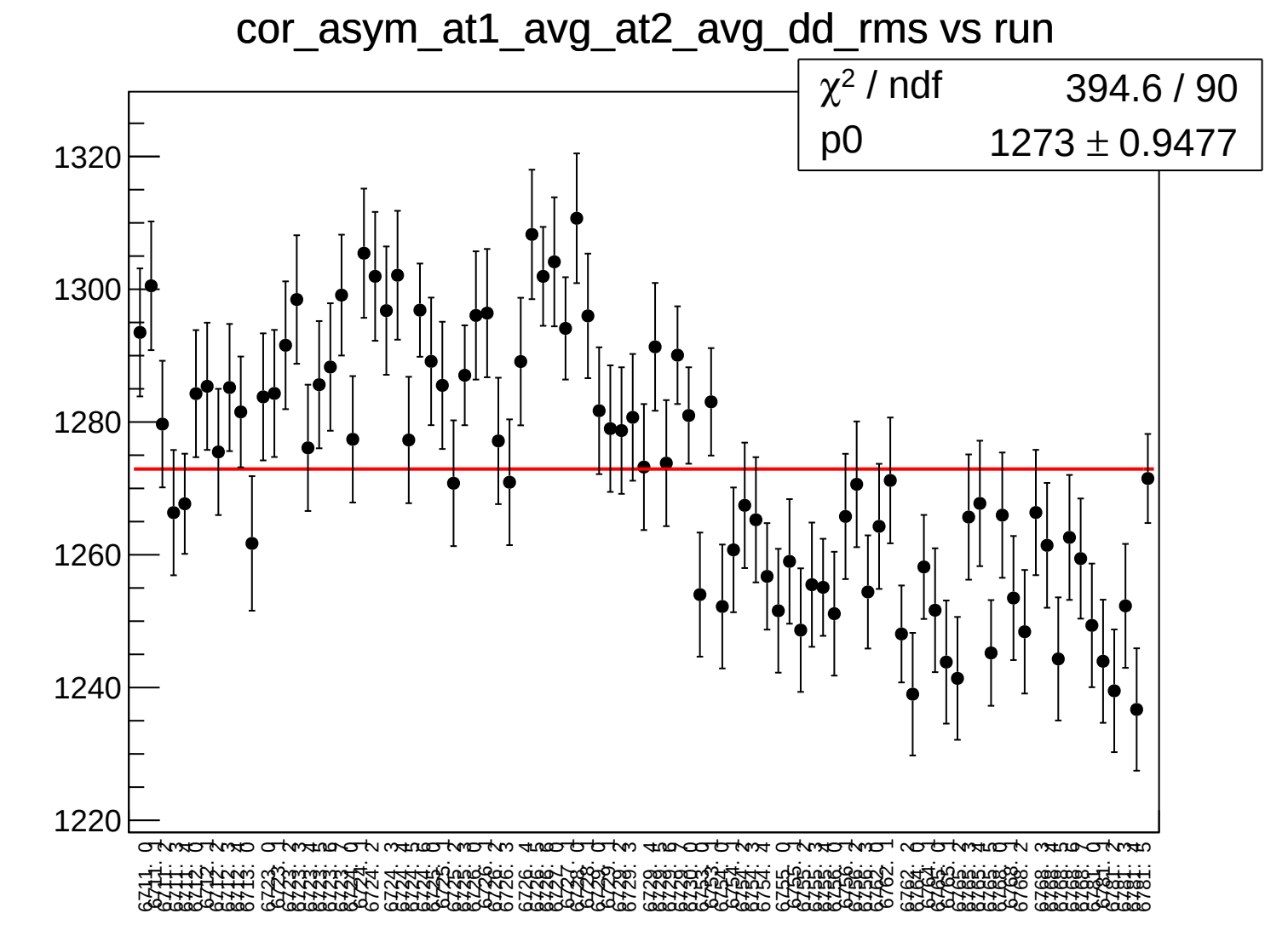

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 394.6 / 90
p0 1273 ± 0.9477
1320
1300
1280
1260
1240
1220

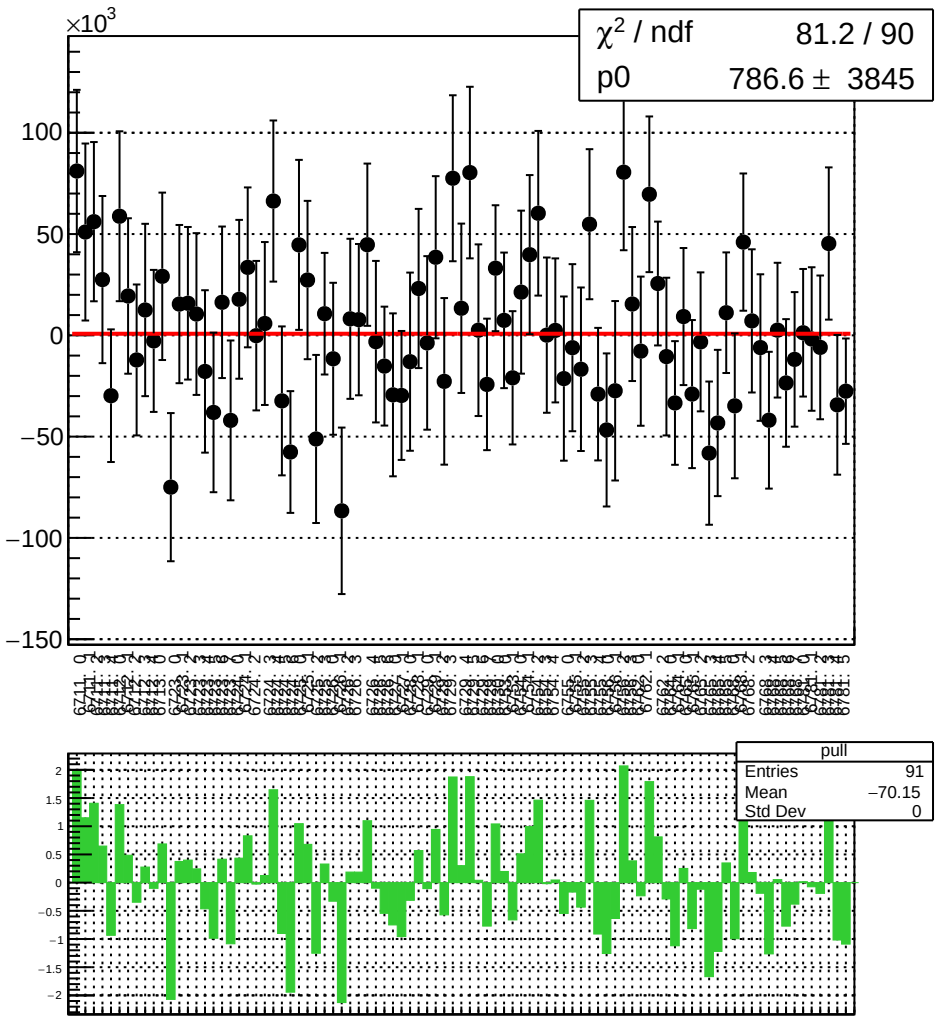

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
χ² / ndf 81.2 / 90
p0 786.5 ± 3845
×10³
pull
Entries 91
Mean −70.16
Std Dev 0

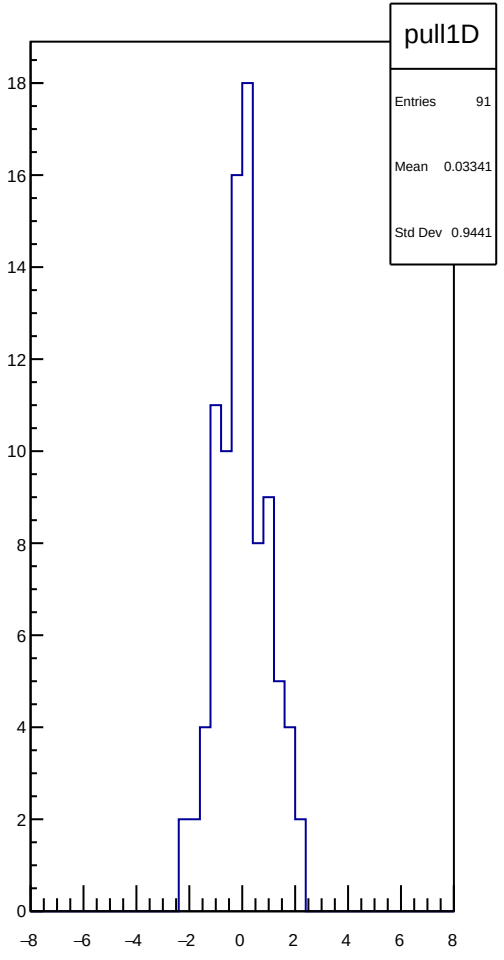

pull1D
Entries 91
Mean 0.03341
Std Dev 0.9441

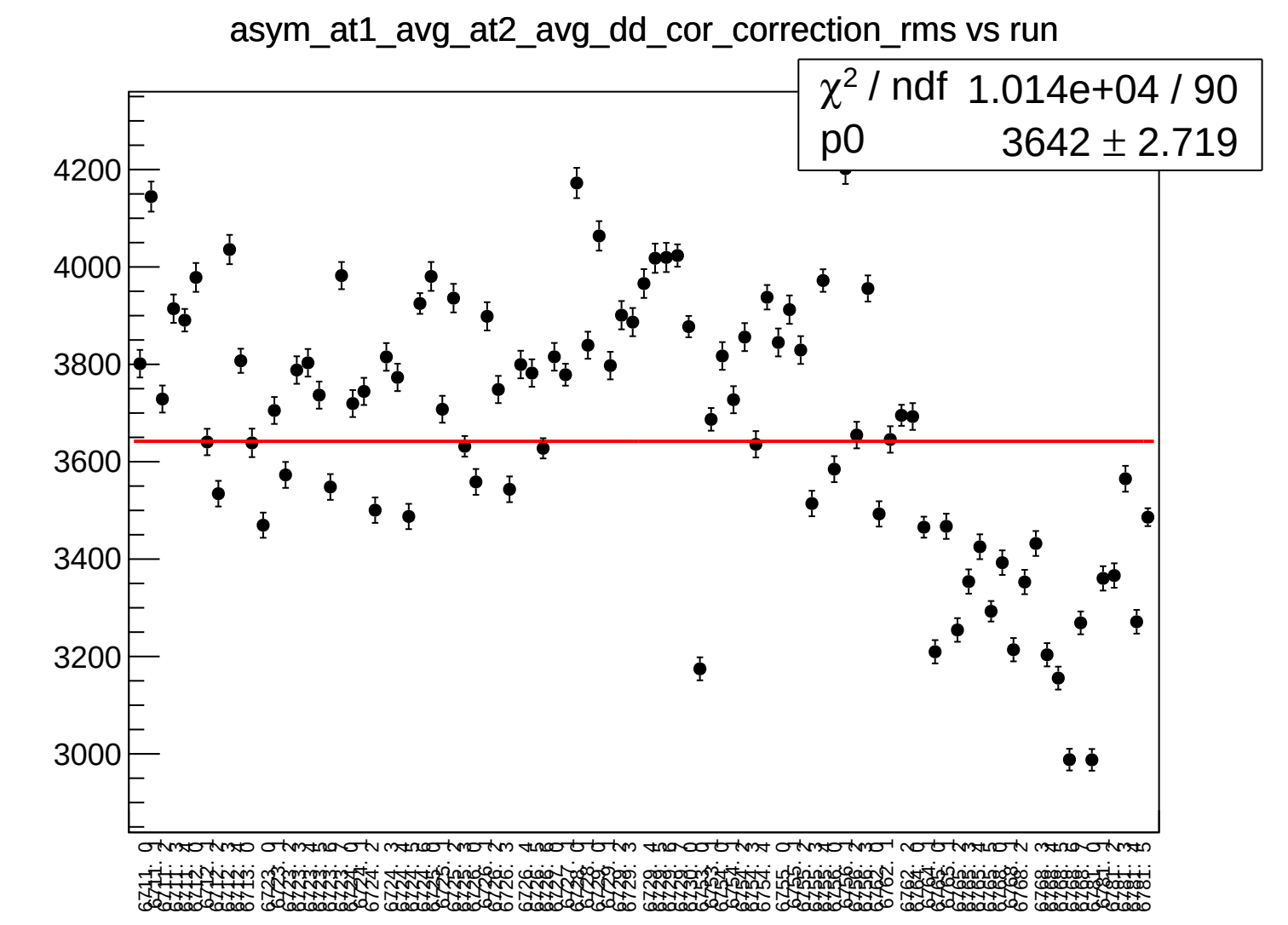

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 1.014e+04 / 90
p0 3642 ± 2.719
4200
4000
3800
3600
3400
3200
3000

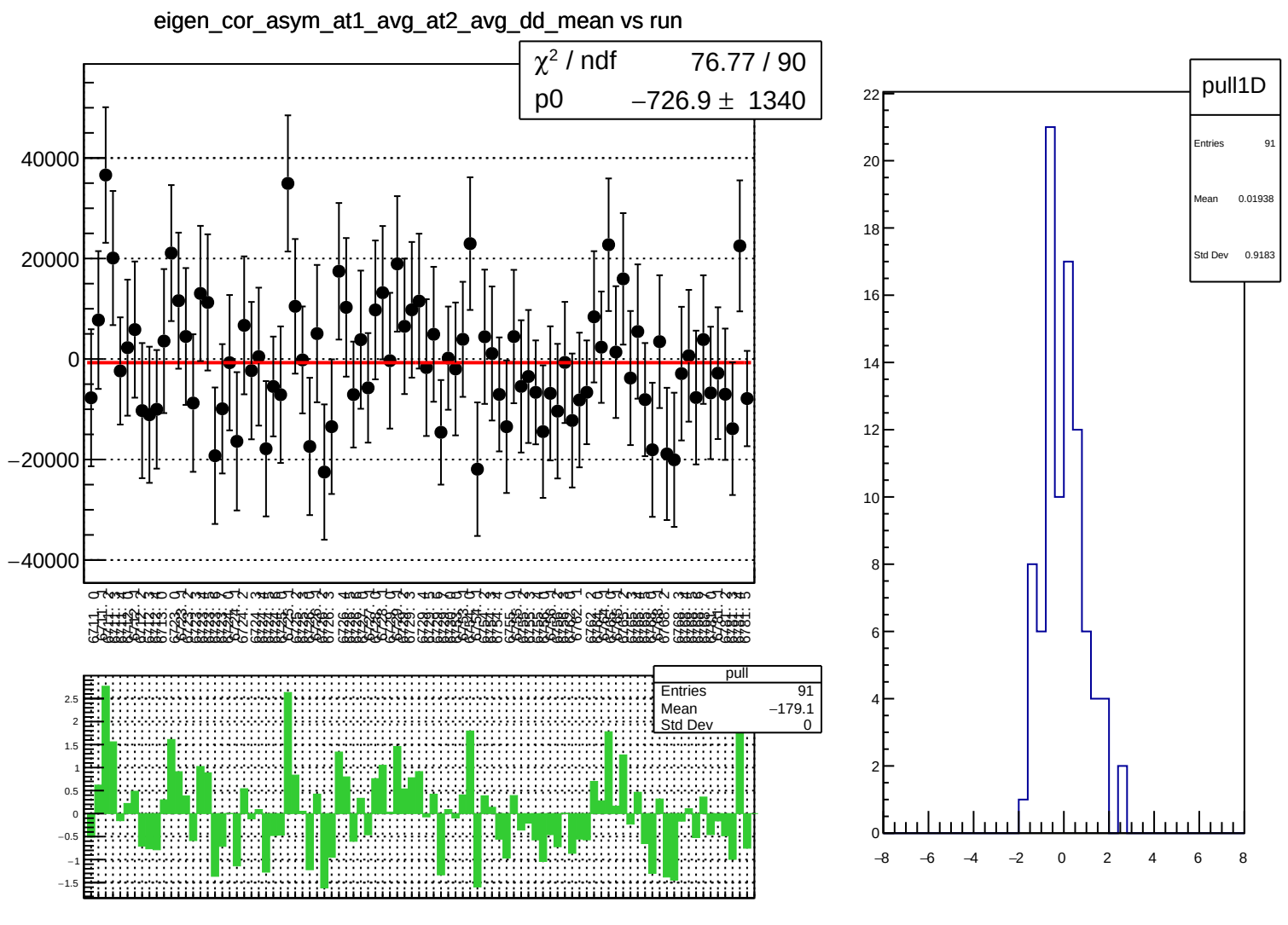

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 76.77 / 90
p0 −726.9 ± 1340
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −179.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean 0.01938
Std Dev 0.9183
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

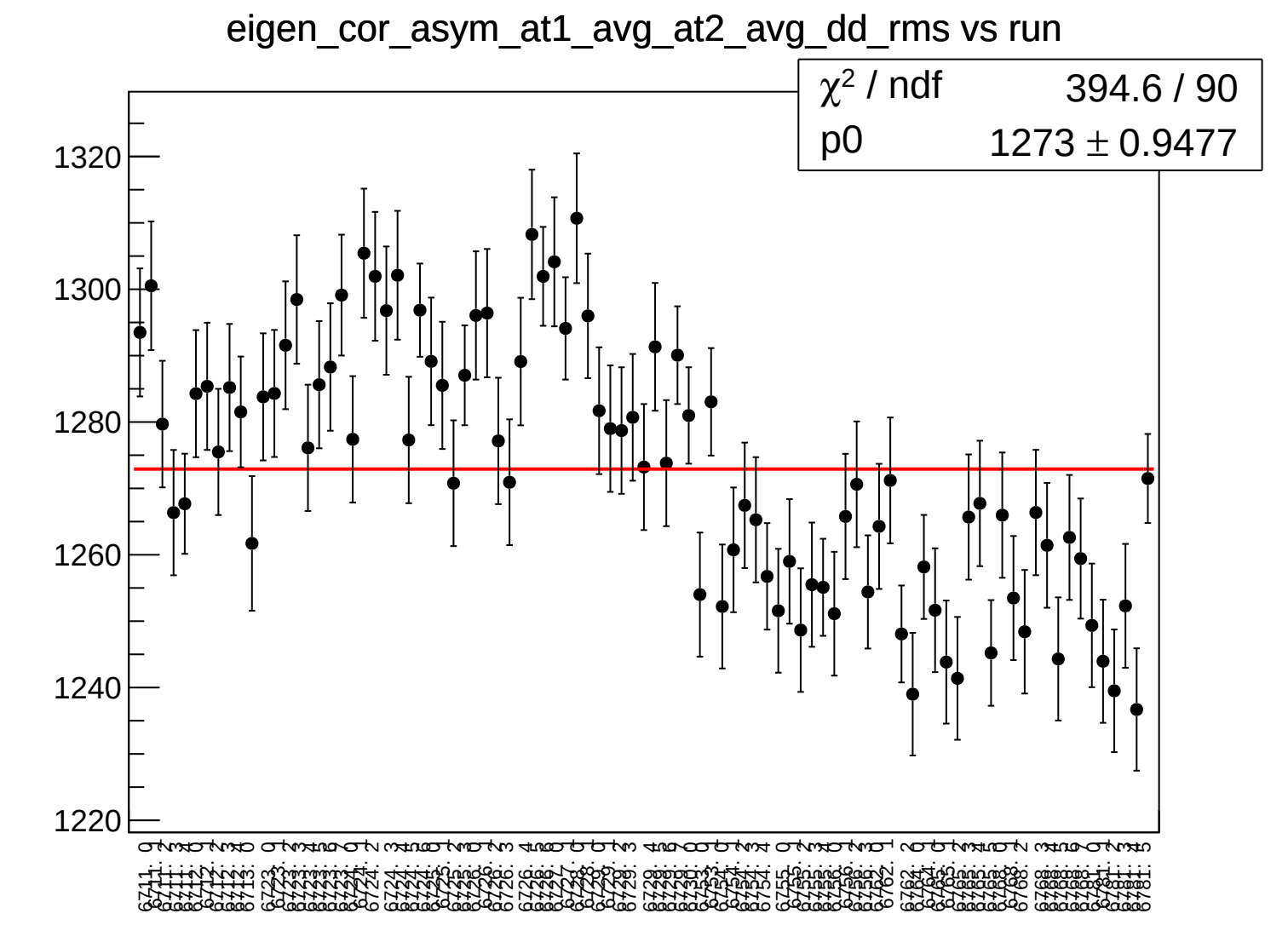

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 394.6 / 90
p0 1273 ± 0.9477
1320
1300
1280
1260
1240
1220

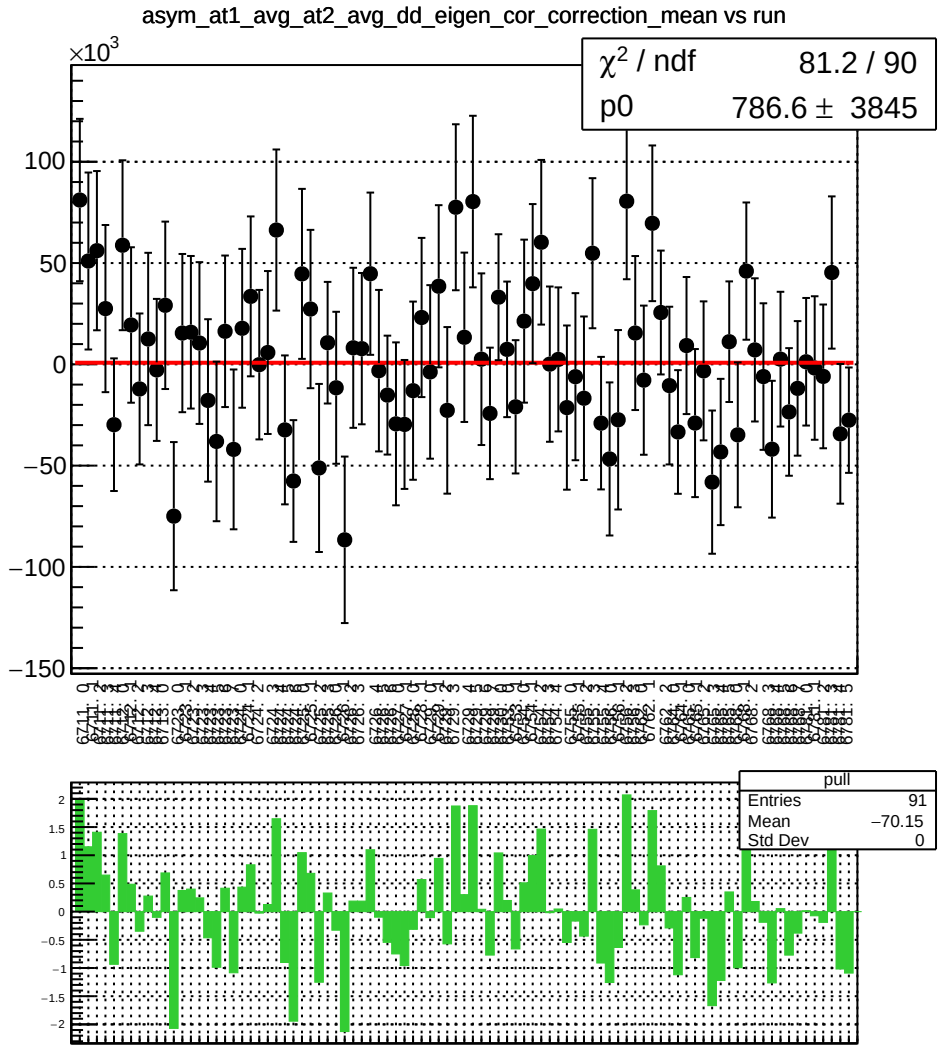

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
χ² / ndf 81.2 / 90
p0 786.6 ± 3845
×10³
pull
Entries 91
Mean −70.15
Std Dev 0

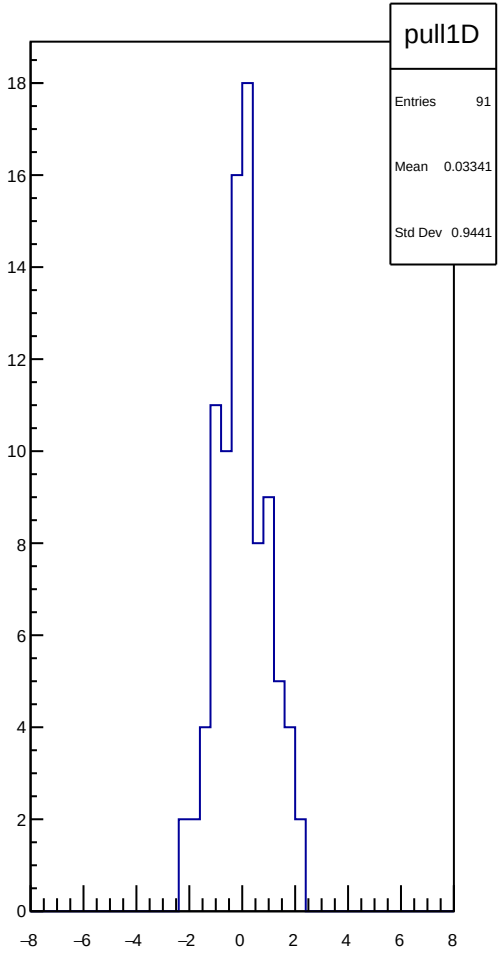

pull1D
Entries 91
Mean 0.03341
Std Dev 0.9441

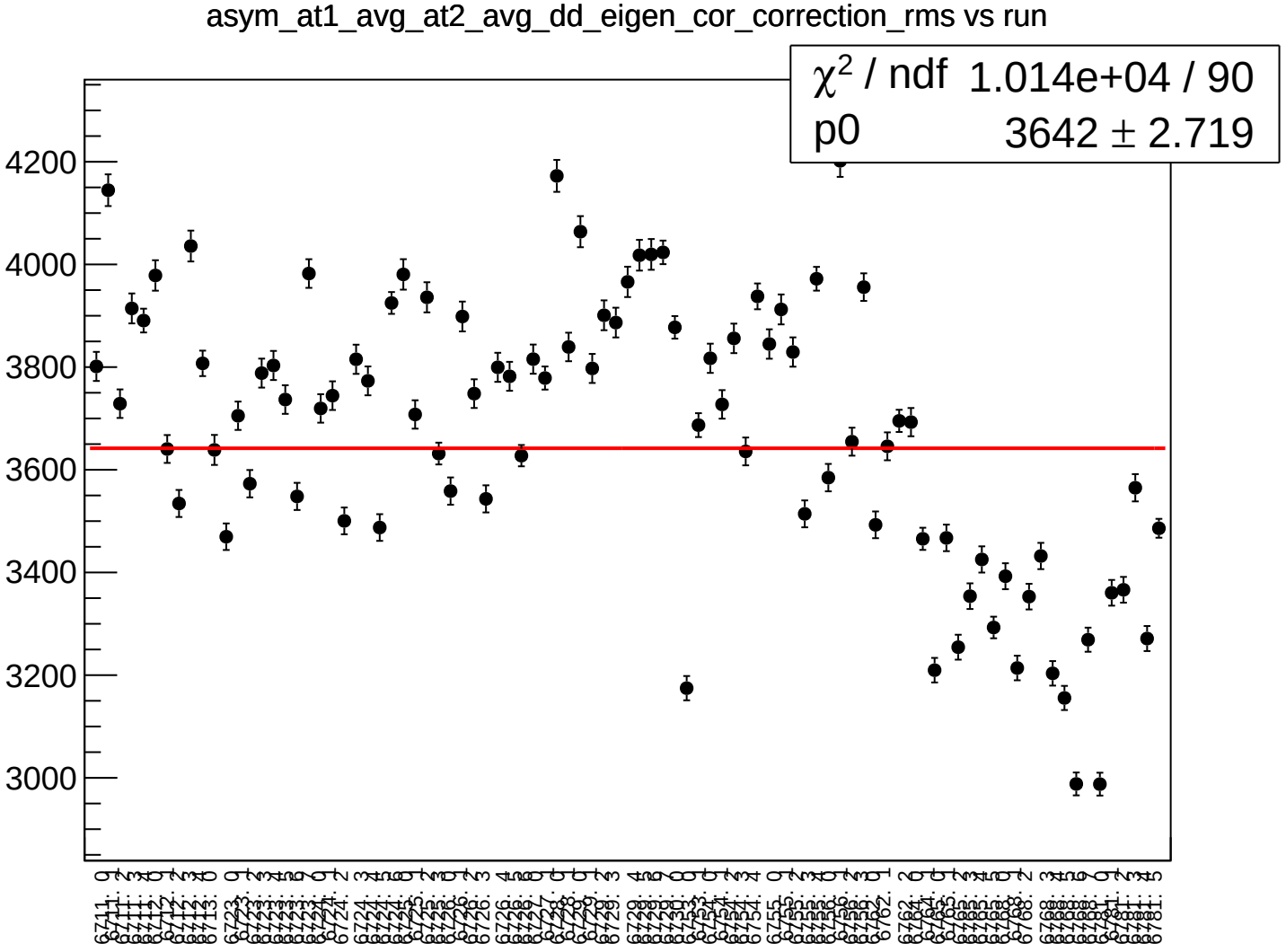

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 1.014e+04 / 90
p0 3642 ± 2.719
4200
4000
3800
3600
3400
3200
3000

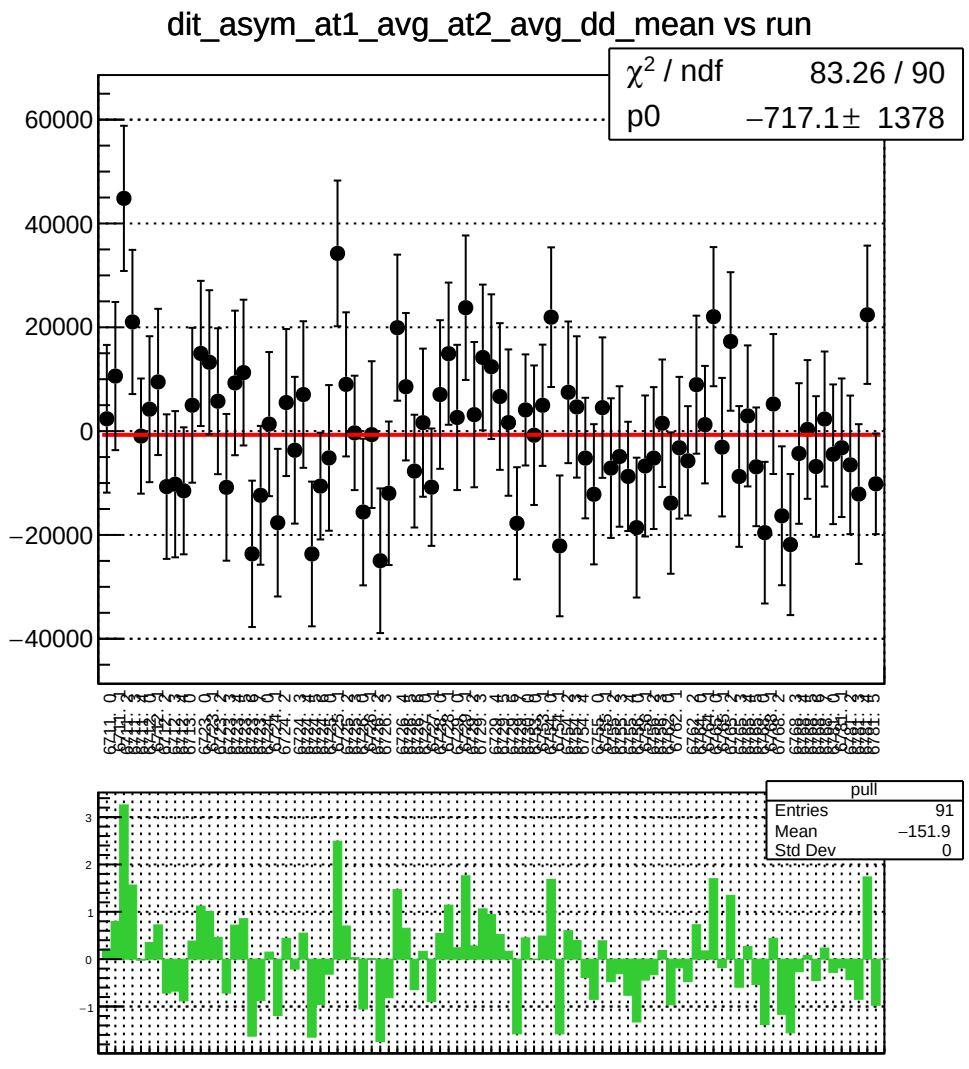

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 76.77 / 90
p0 −726.9 ± 1340
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −179.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean 0.01938
Std Dev 0.9183
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

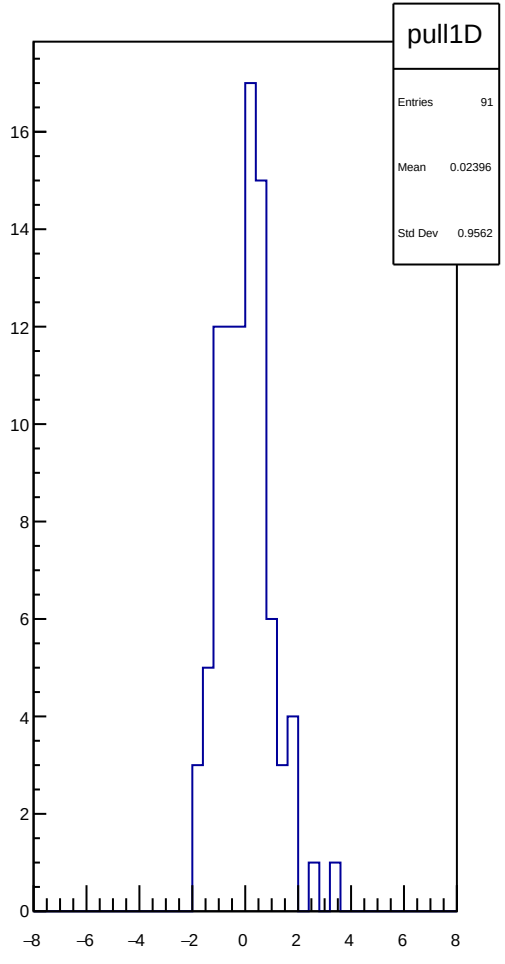

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 394.6 / 90
p0 1273 ± 0.9477
1320
1300
1280
1260
1240
1220

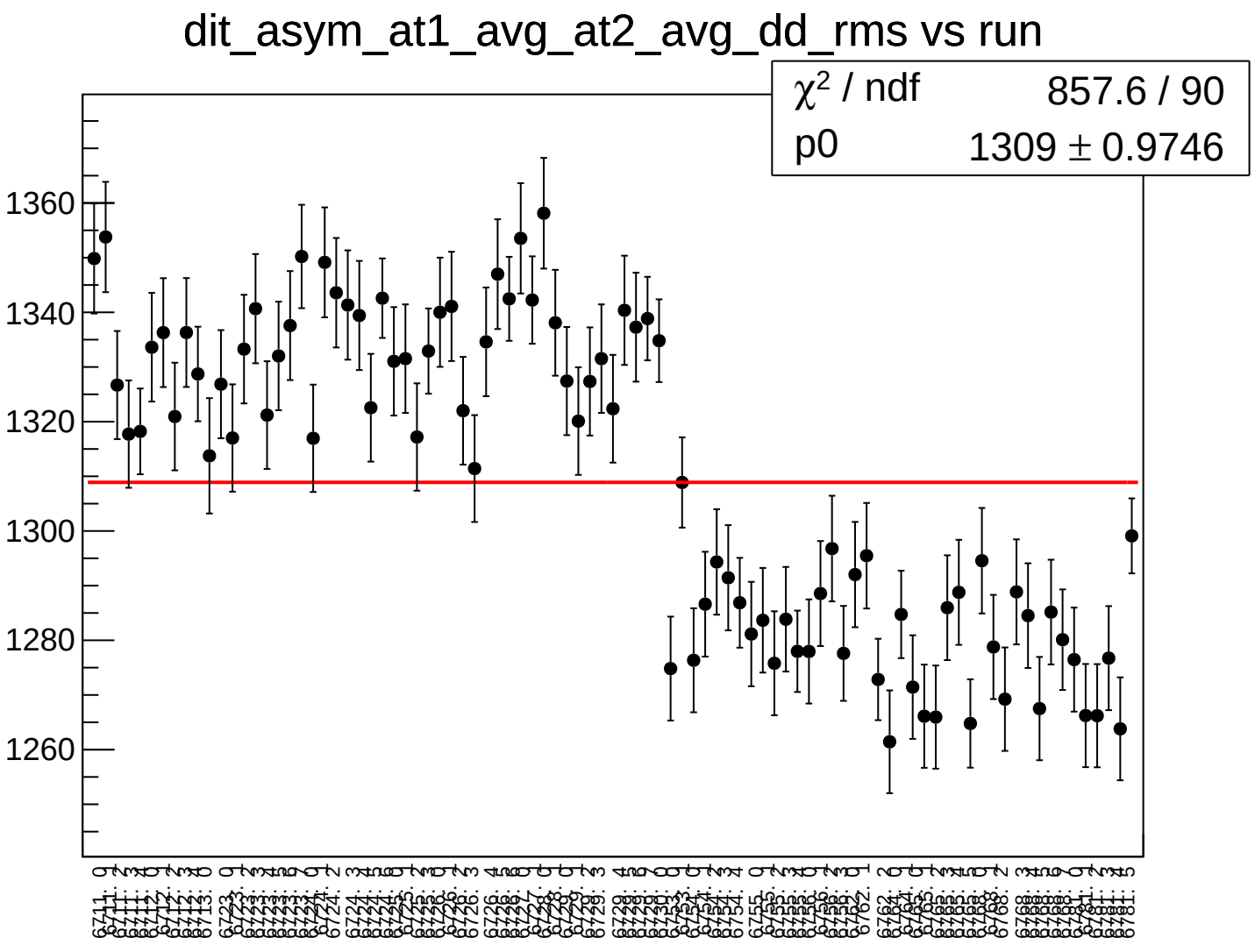

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.2 / 90
p0 786.6 ± 3845
100
50
0
−50
−100
−150
pull
Entries 91
Mean −70.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

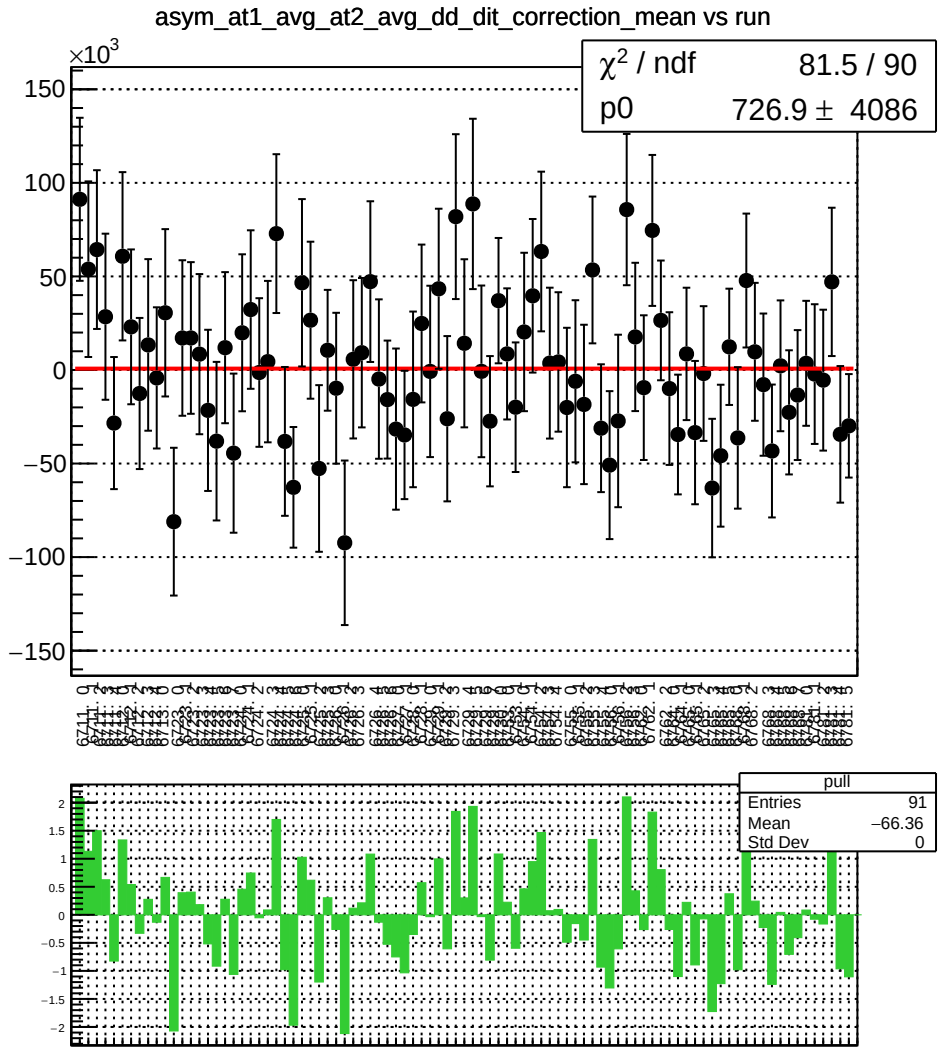

pull1D
Entries 91
Mean 0.03341
Std Dev 0.9441
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

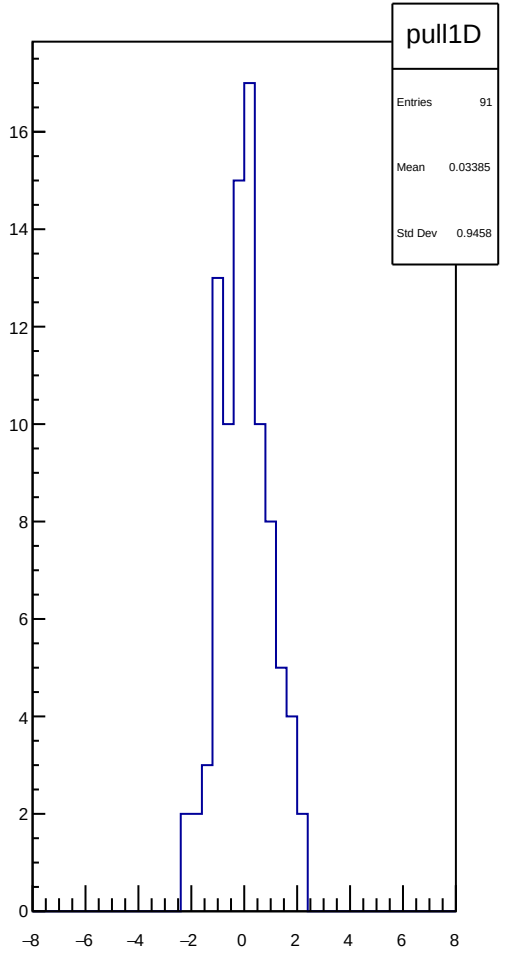

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.014e+04 / 90
p0 3642 ± 2.719
4200
4000
3800
3600
3400
3200
3000

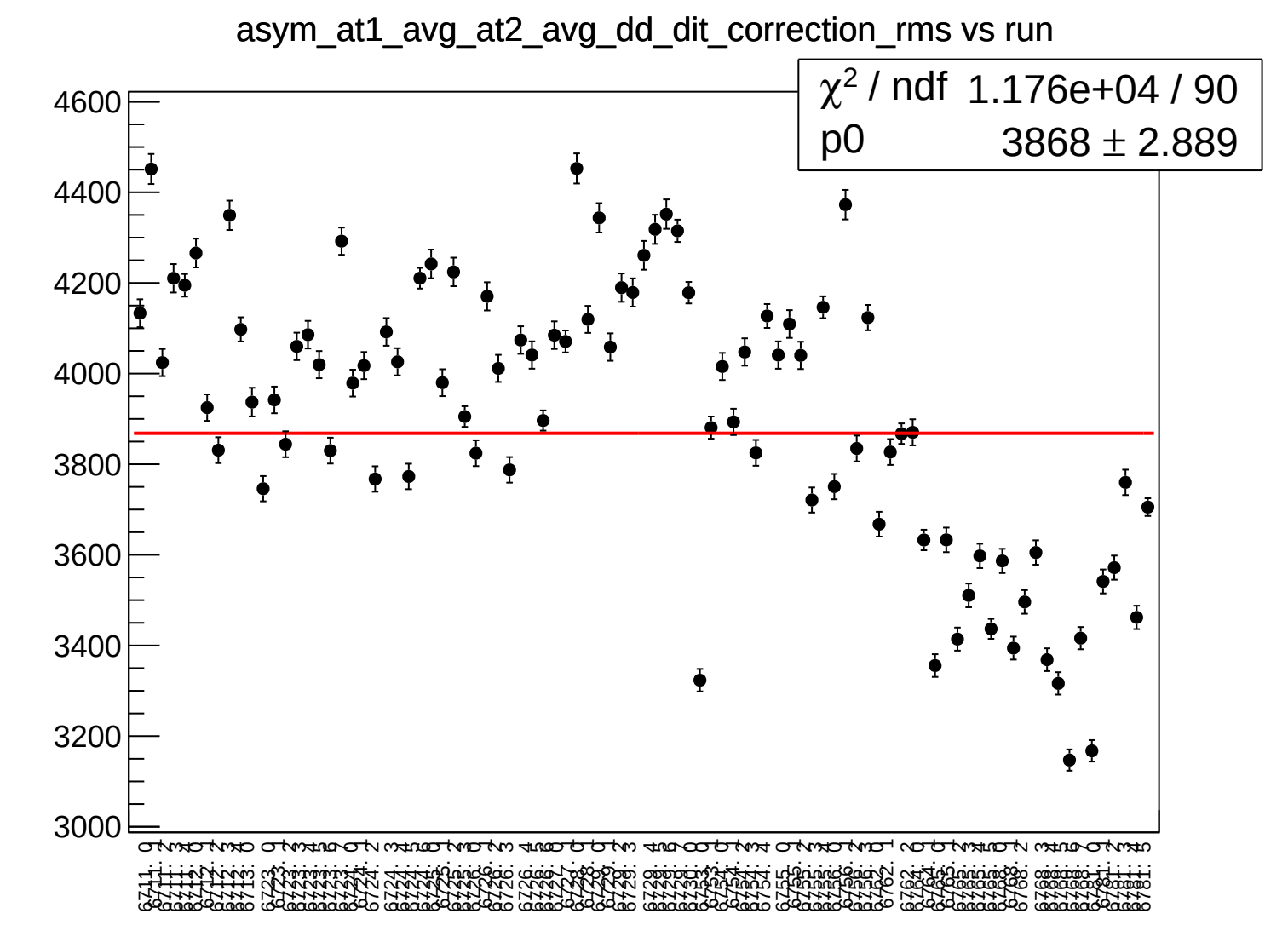

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 83.26 / 90
p0 −717.1± 1378
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −151.9
Std Dev 0
3
2
1
0
−1

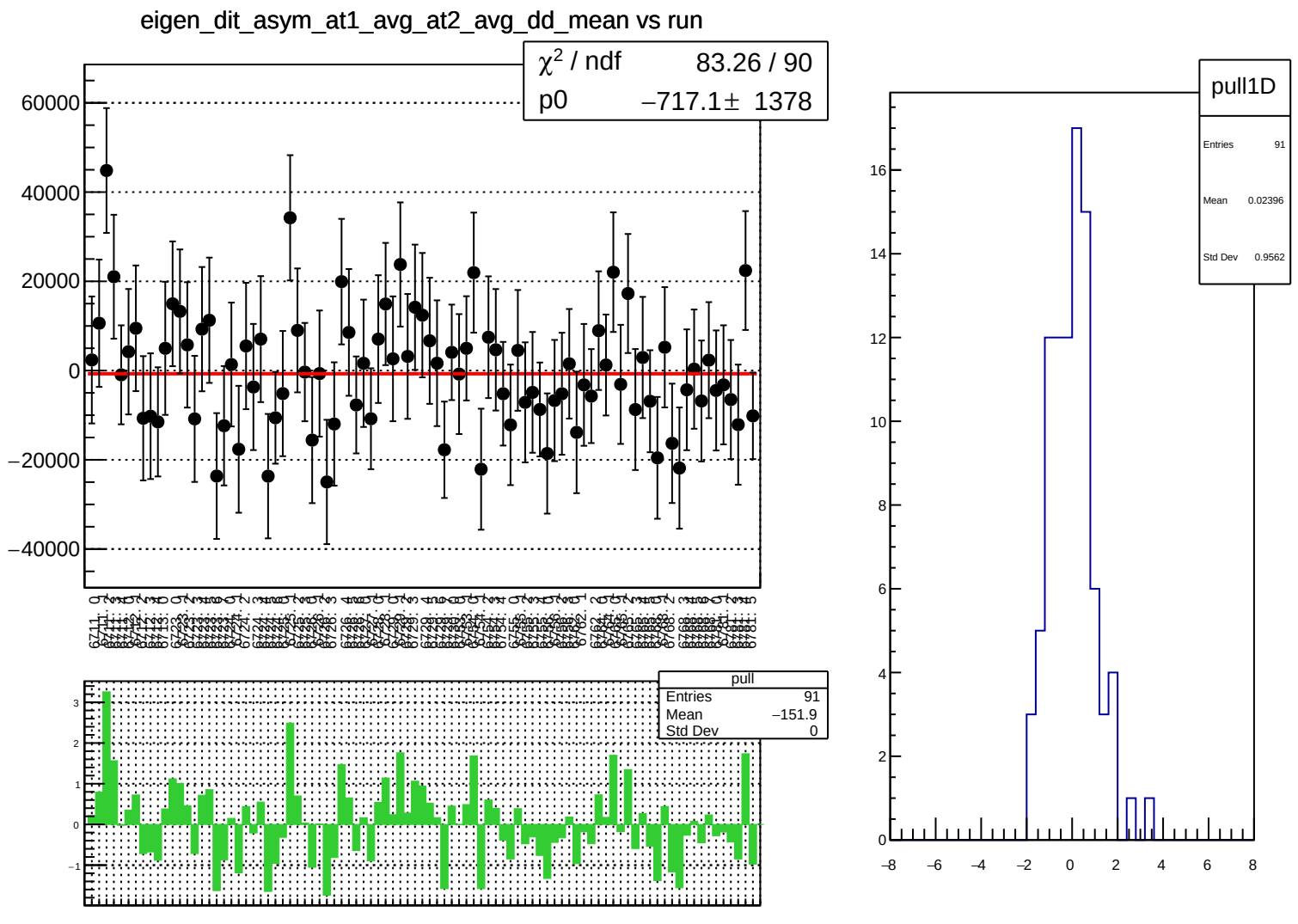

pull1D
Entries 91
Mean 0.02396
Std Dev 0.9562
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

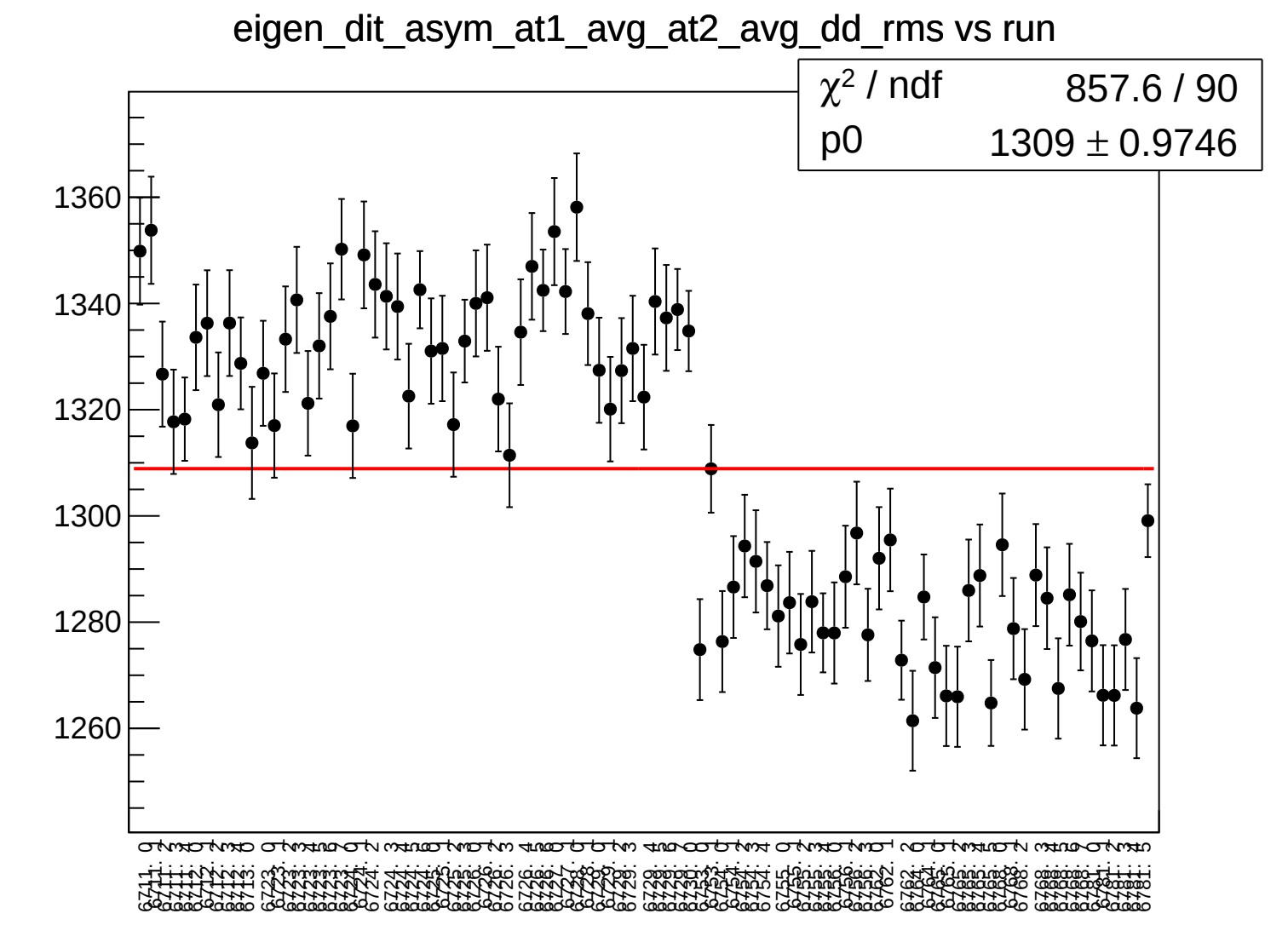

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 857.6 / 90
p0 1309 ± 0.9746
1360
1340
1320
1300
1280
1260

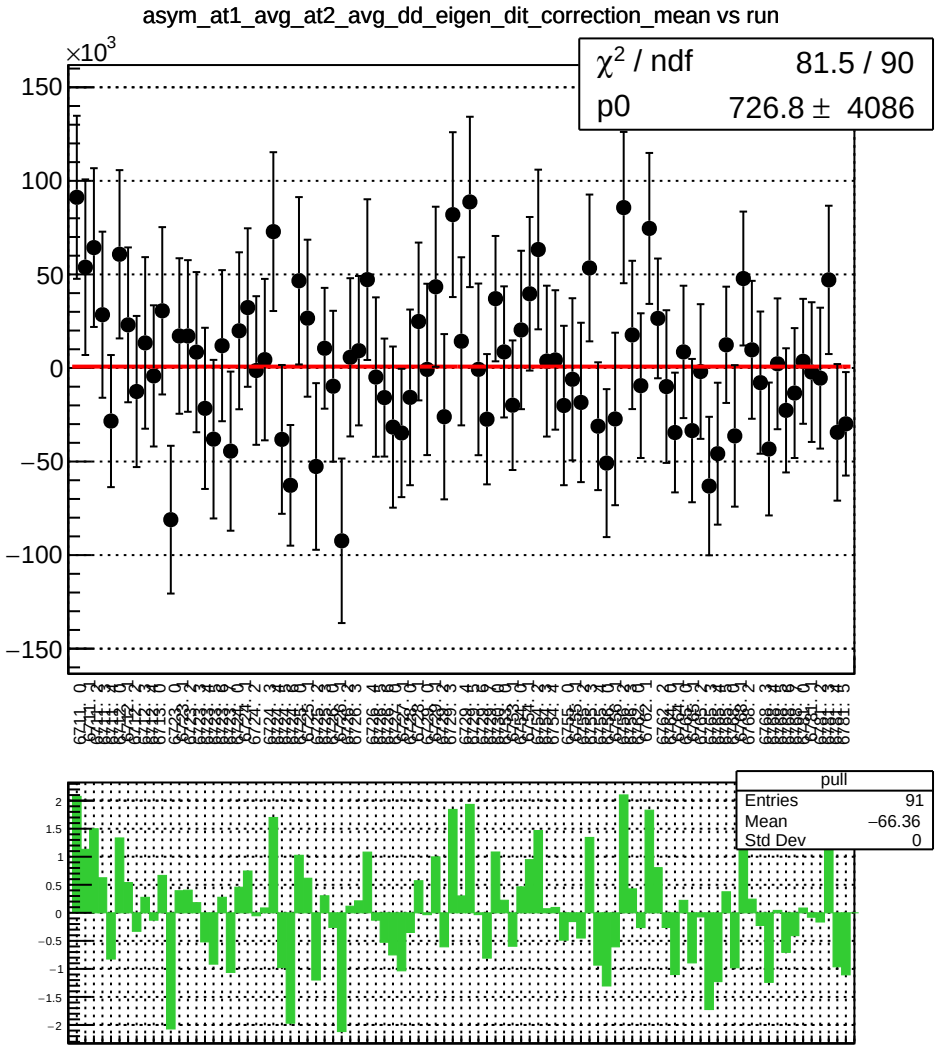

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 81.5 / 90
p0 726.9 ± 4086
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −66.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

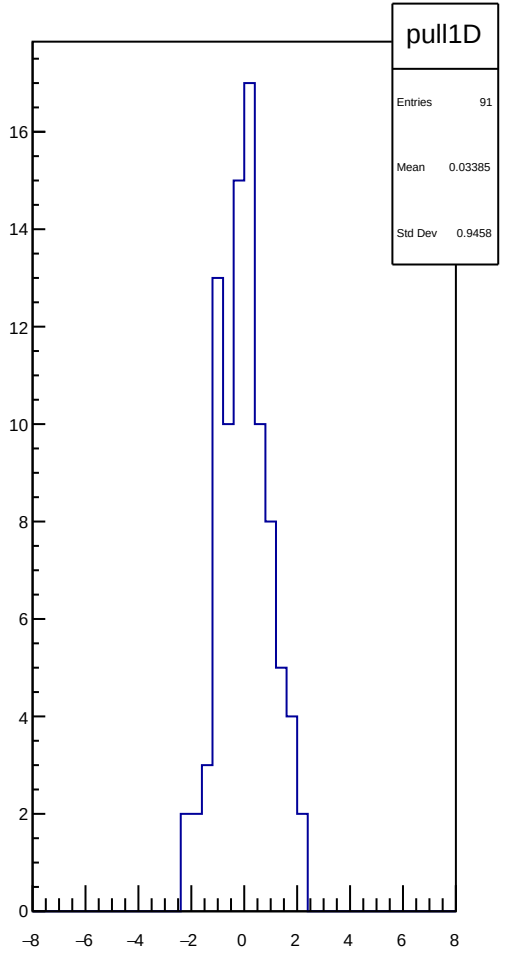

pull1D
Entries 91
Mean 0.03385
Std Dev 0.9458
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

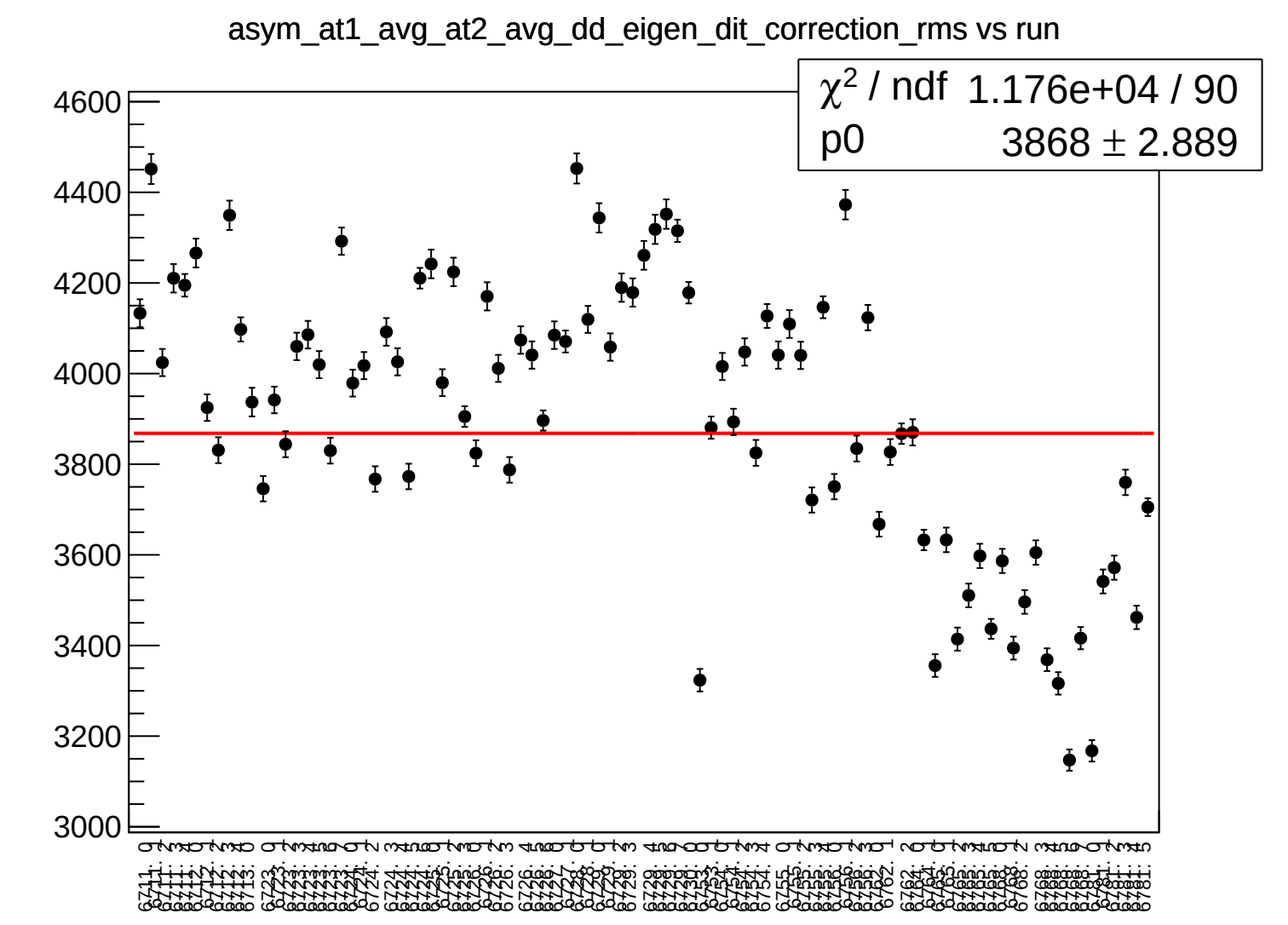

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 1.176e+04 / 90
p0 3868 ± 2.889
4600
4400
4200
4000
3800
3600
3400
3200
3000

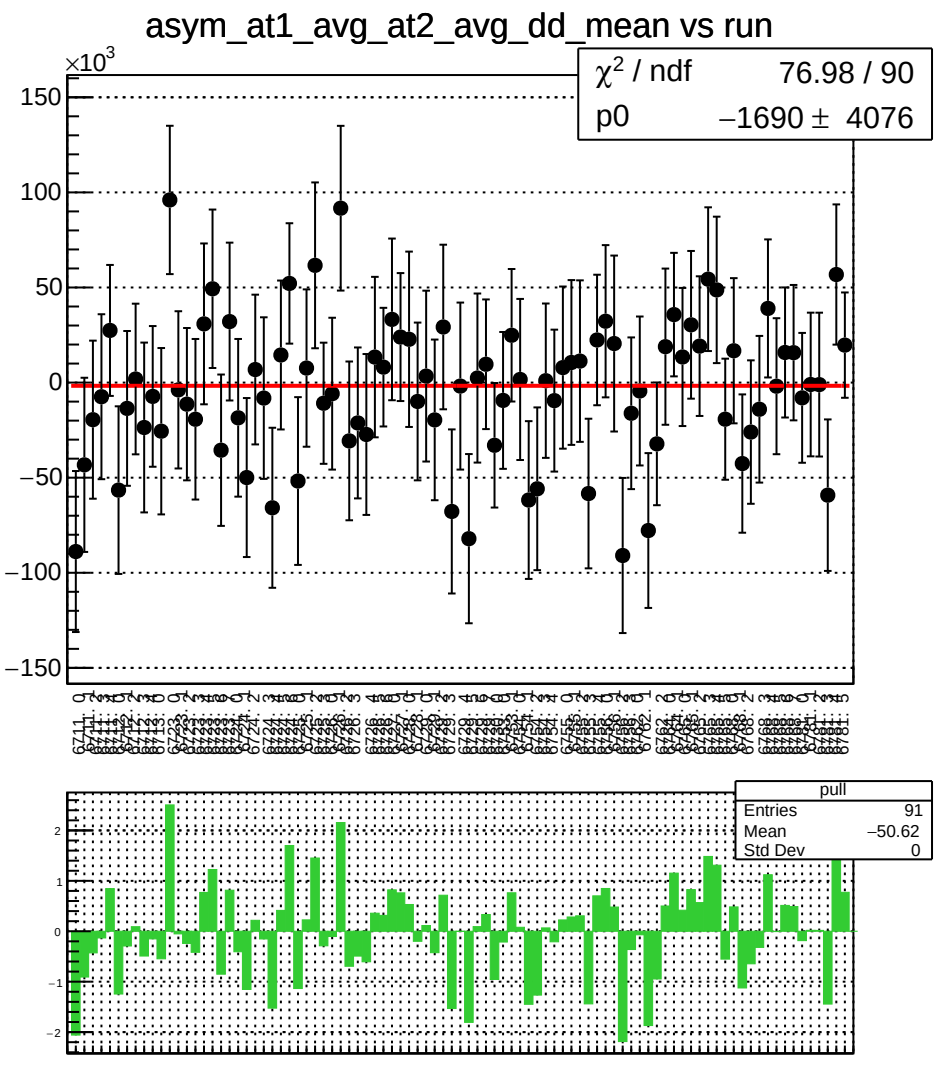

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 83.26 / 90
p0 −717.1± 1378
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −151.9
Std Dev 0
3
2
1
0
−1
pull1D
Entries 91
Mean 0.02396
Std Dev 0.9562
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

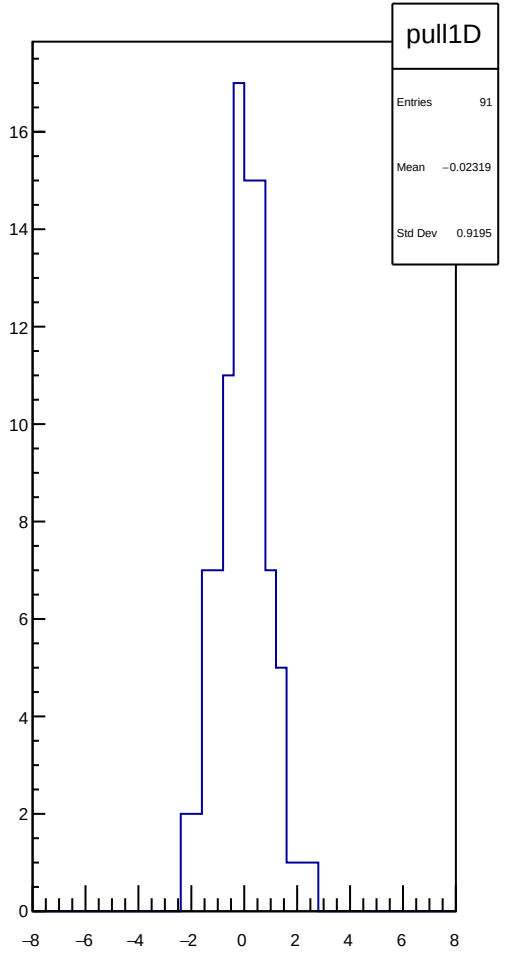

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 857.6 / 90
p0 1309 ± 0.9746
1360
1340
1320
1300
1280
1260

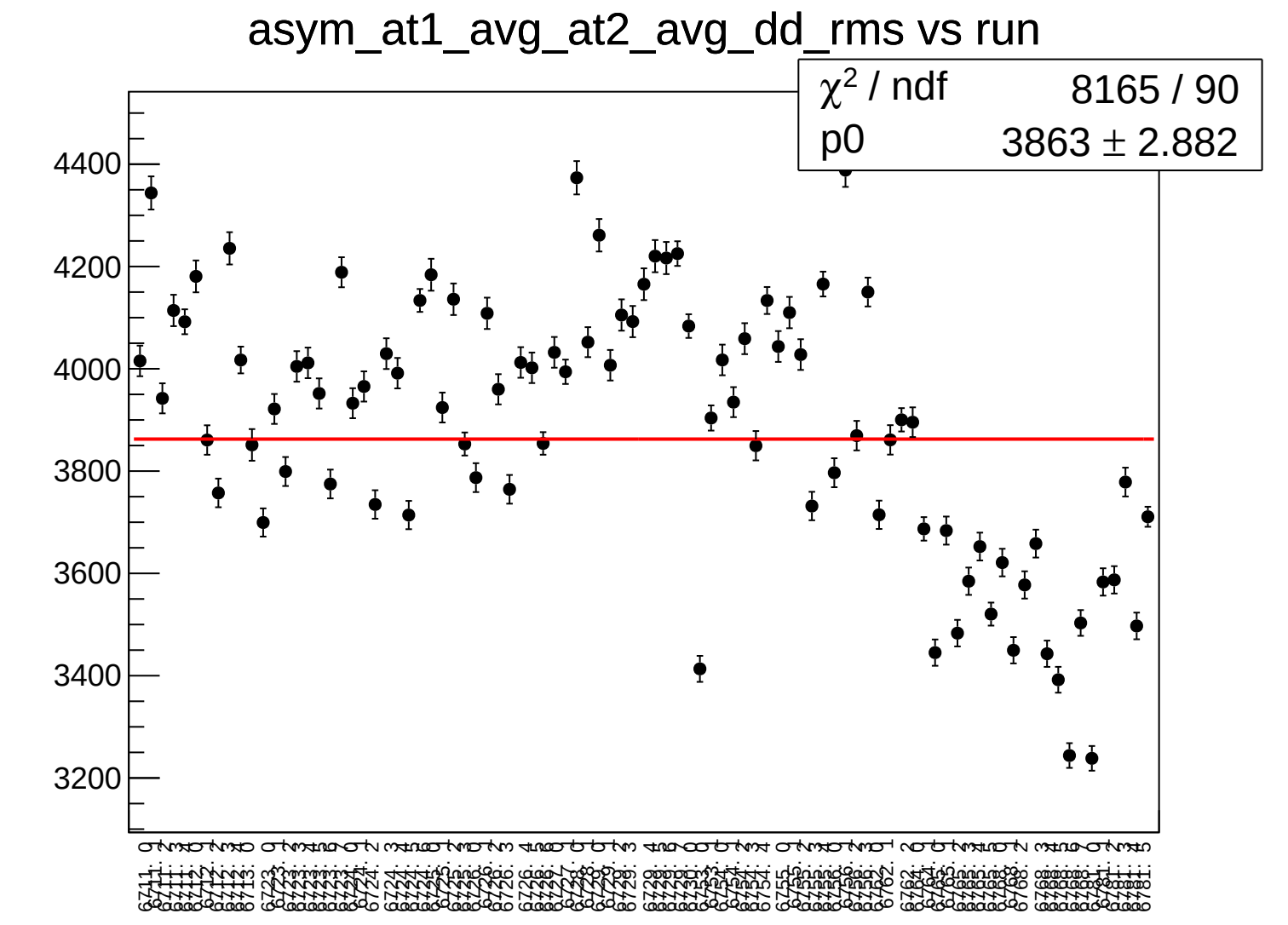

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.5 / 90
p0 726.8 ± 4086
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −66.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

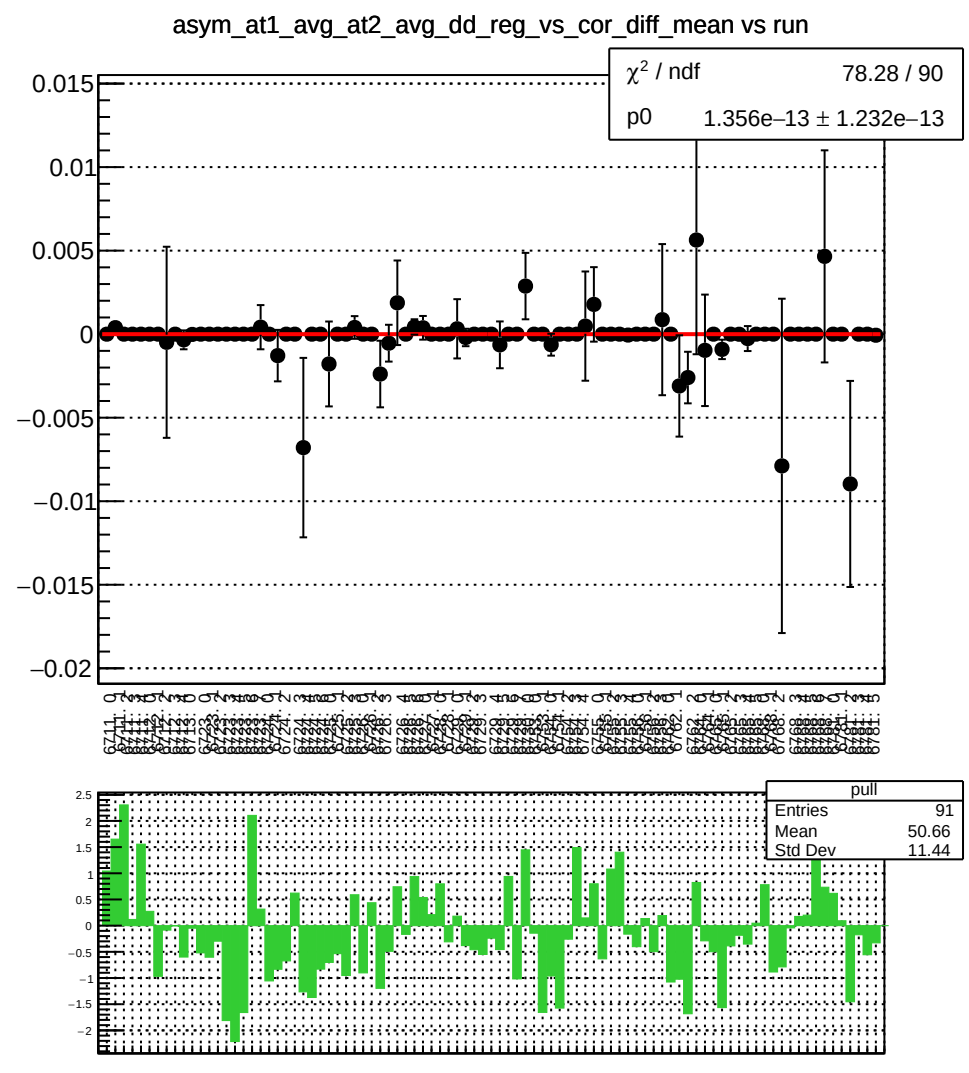

pull1D
Entries 91
Mean 0.03385
Std Dev 0.9458
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

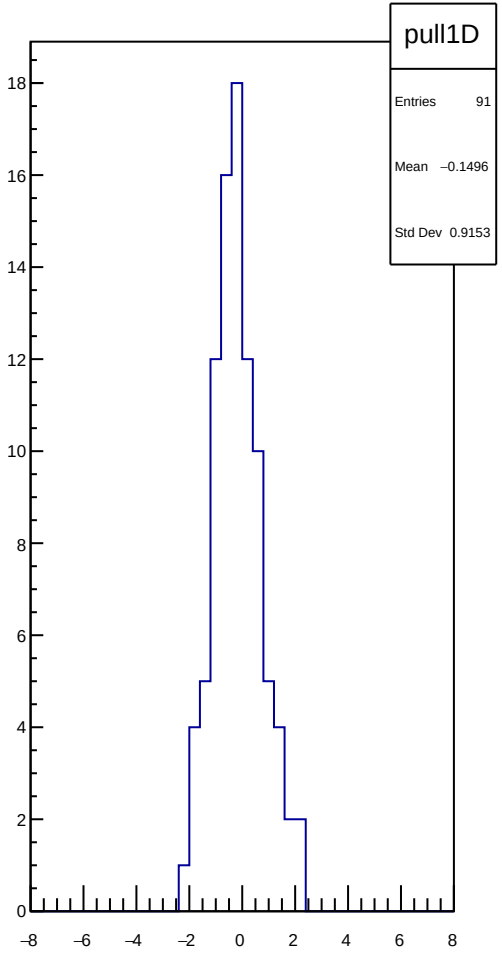

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.176e+04 / 90
p0 3868 ± 2.889
4600
4400
4200
4000
3800
3600
3400
3200
3000

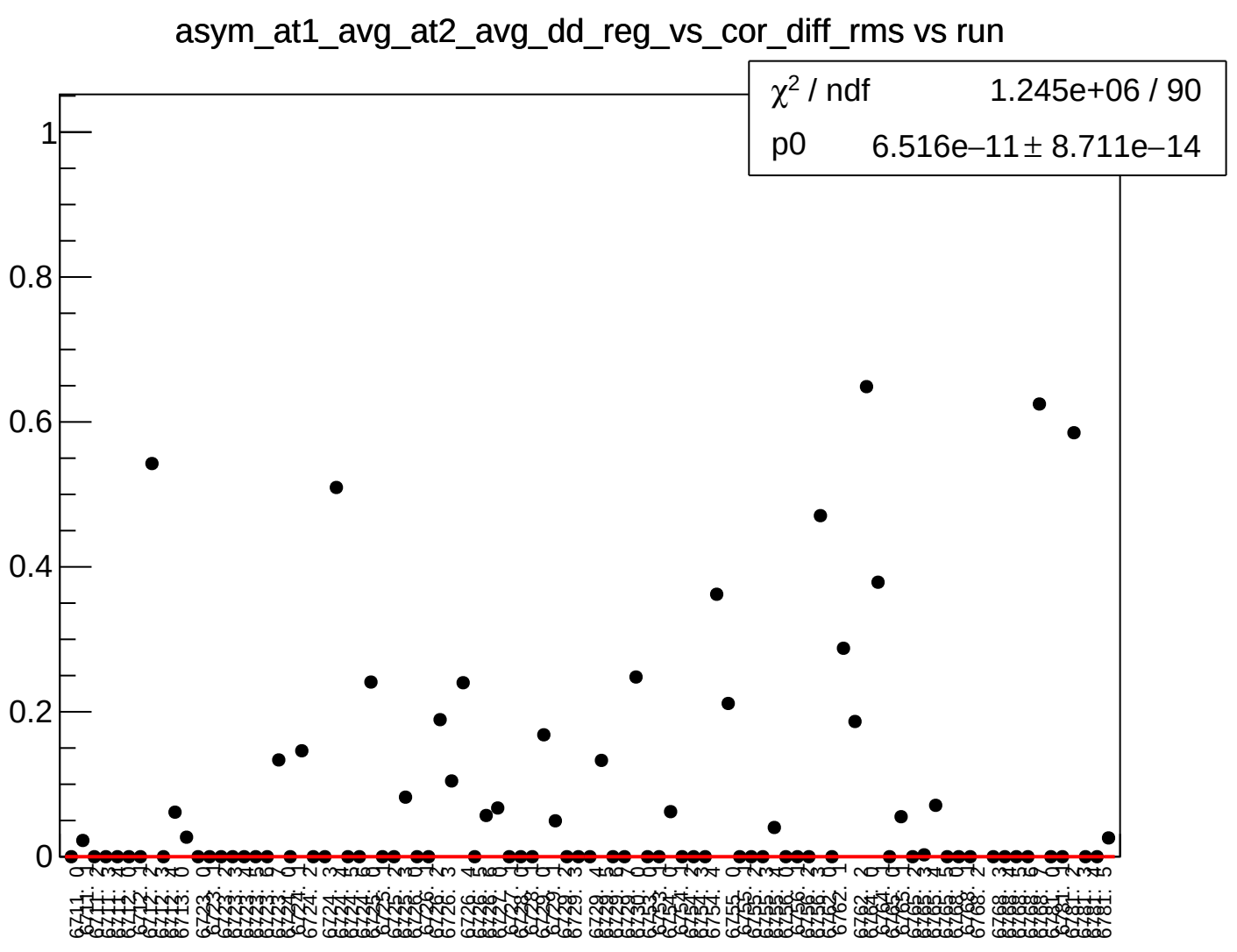

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 76.98 / 90
p0 −1690 ± 4076
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −50.62
Std Dev 0
2
1
0
−1
−2

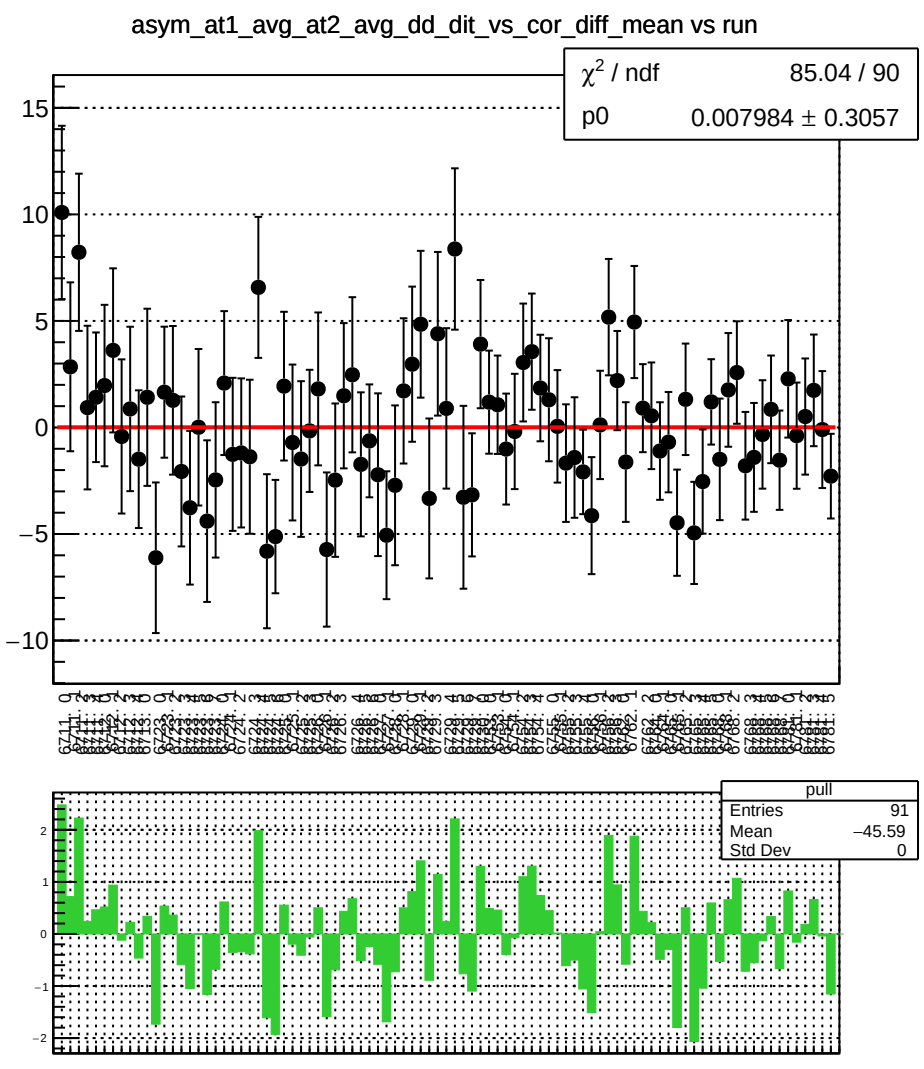

pull1D
Entries 91
Mean −0.02319
Std Dev 0.9195
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

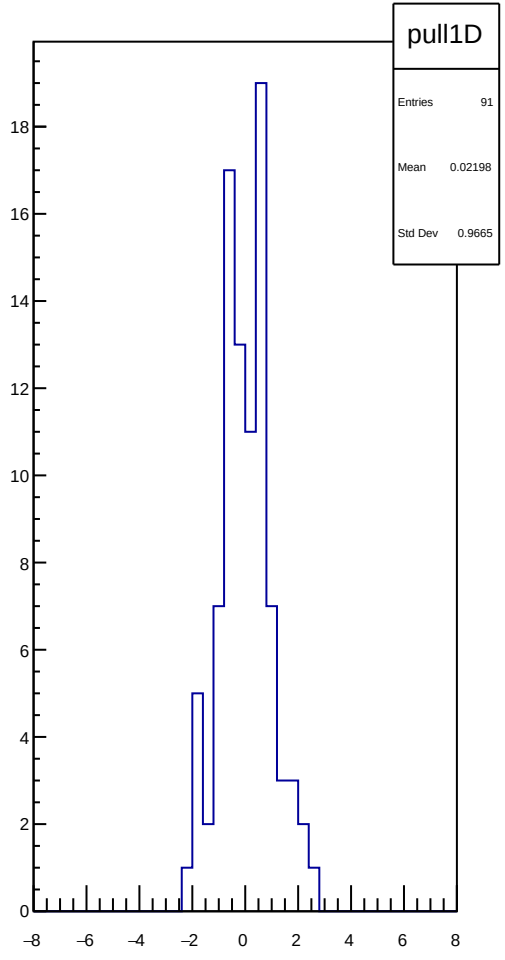

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 8165 / 90
p0 3863 ± 2.882
4400
4200
4000
3800
3600
3400
3200

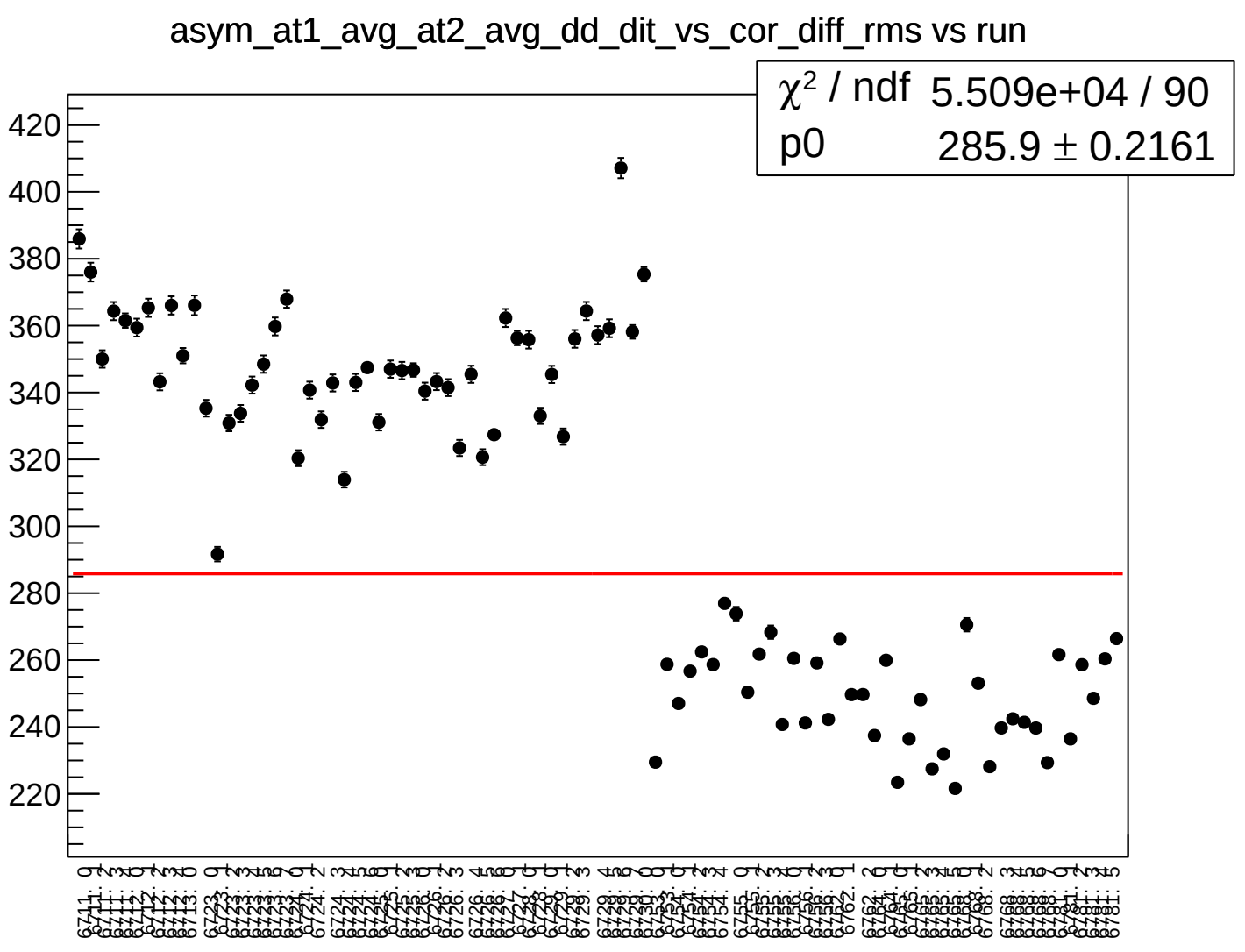

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.28 / 90
p0 1.356e−13 ± 1.232e−13
pull
Entries 91
Mean 50.66
Std Dev 11.44

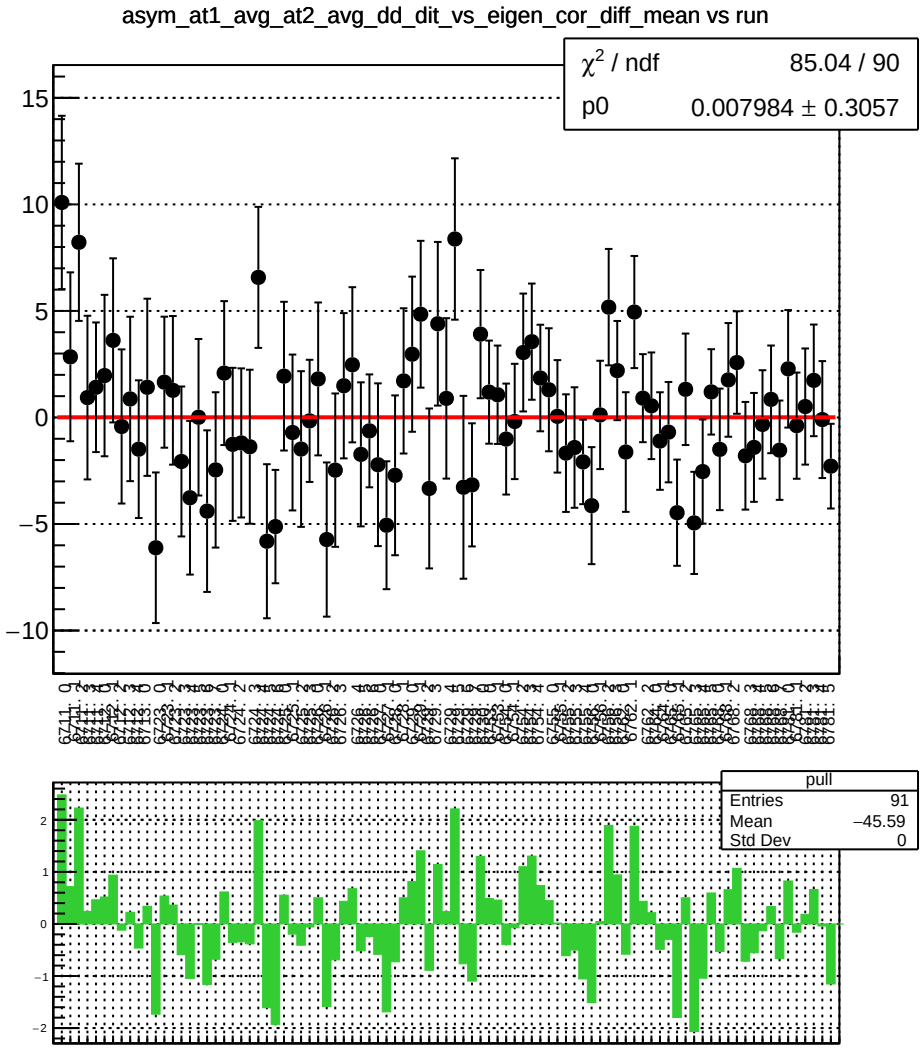

pull1D
Entries 91
Mean −0.1496
Std Dev 0.9153

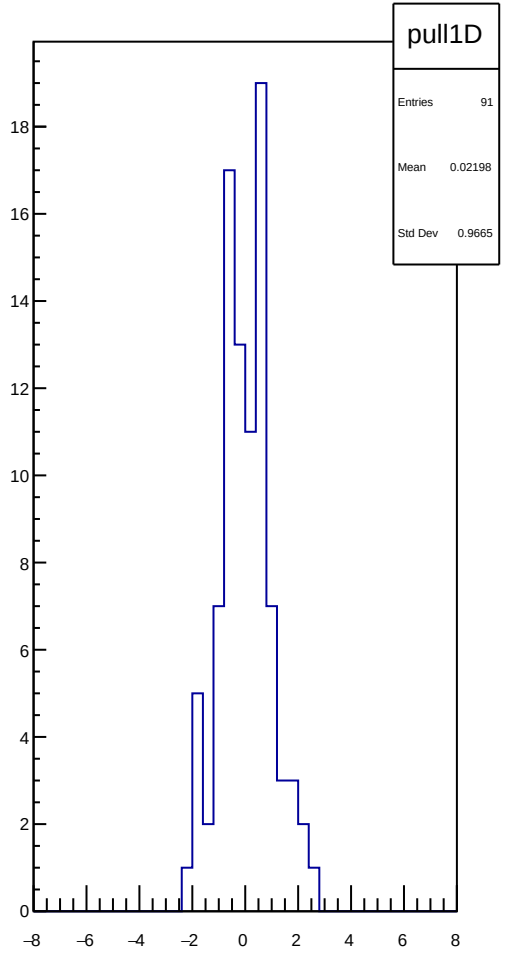

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.245e+06 / 90
p0 6.516e−11 ± 8.711e−14
1
0.8
0.6
0.4
0.2
0

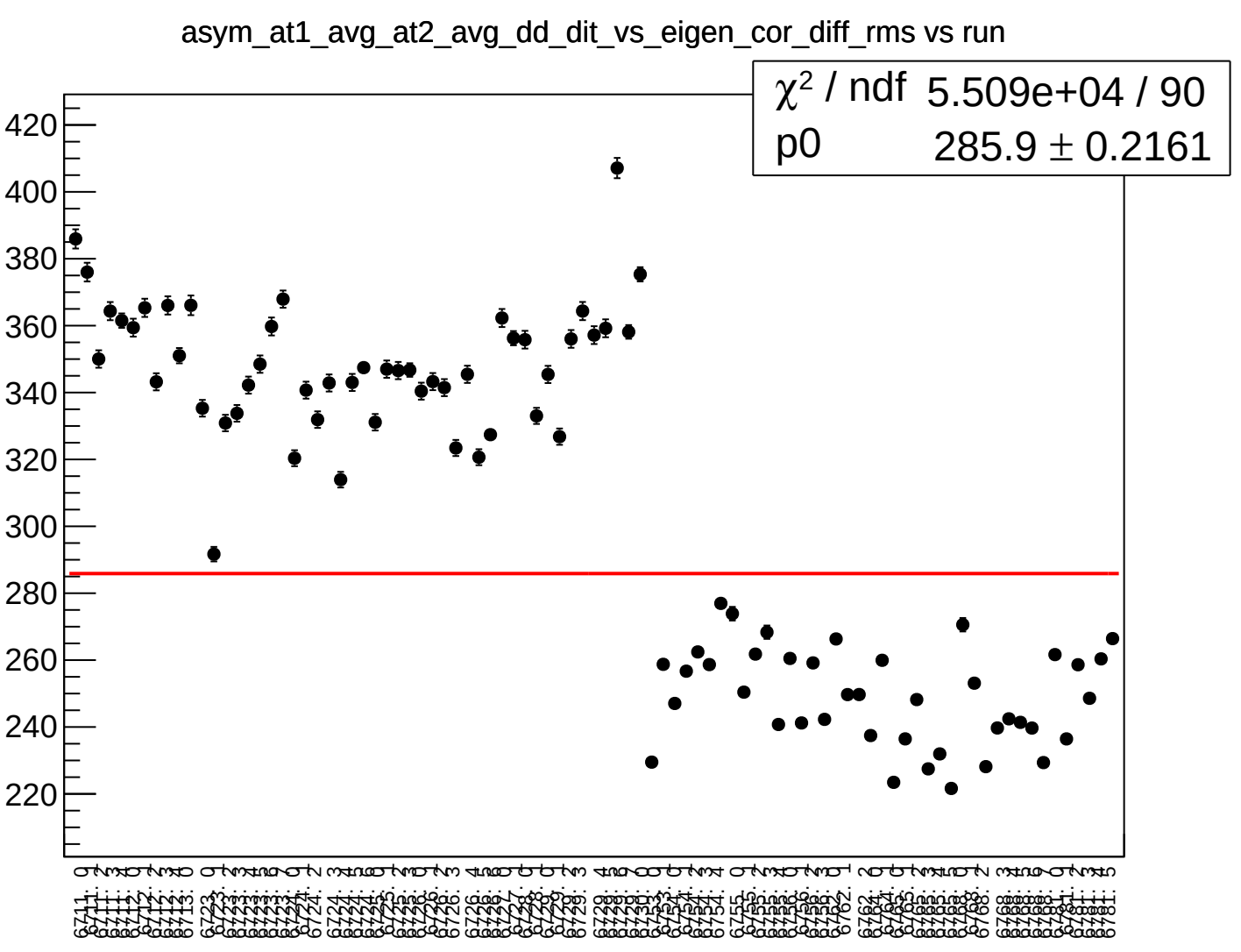

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.04 / 90
p0 0.007984 ± 0.3057
15
10
5
0
−5
−10
pull
Entries 91
Mean −45.59
Std Dev 0
2
1
0
−1
−2

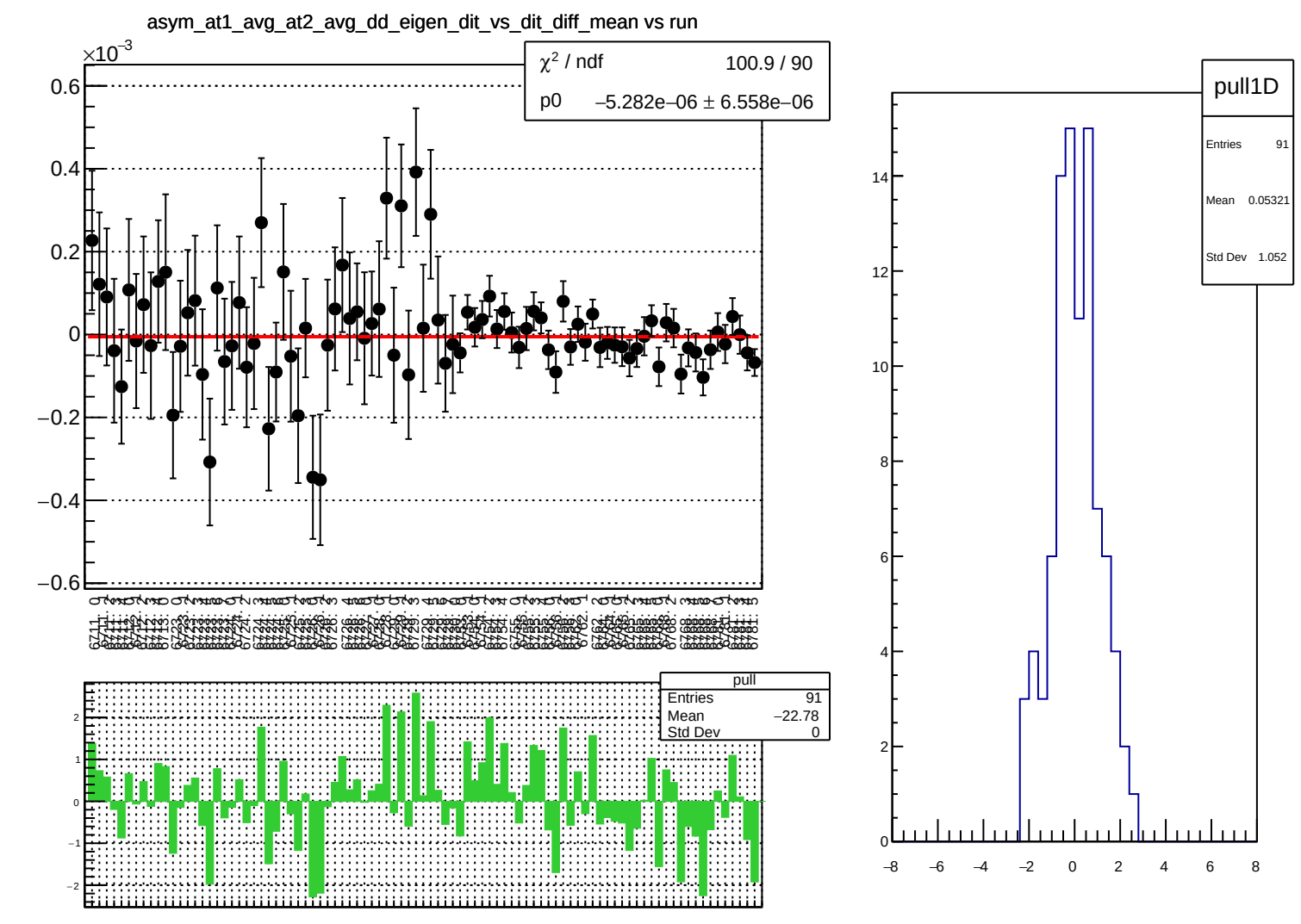

pull1D
Entries 91
Mean 0.02198
Std Dev 0.9665
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

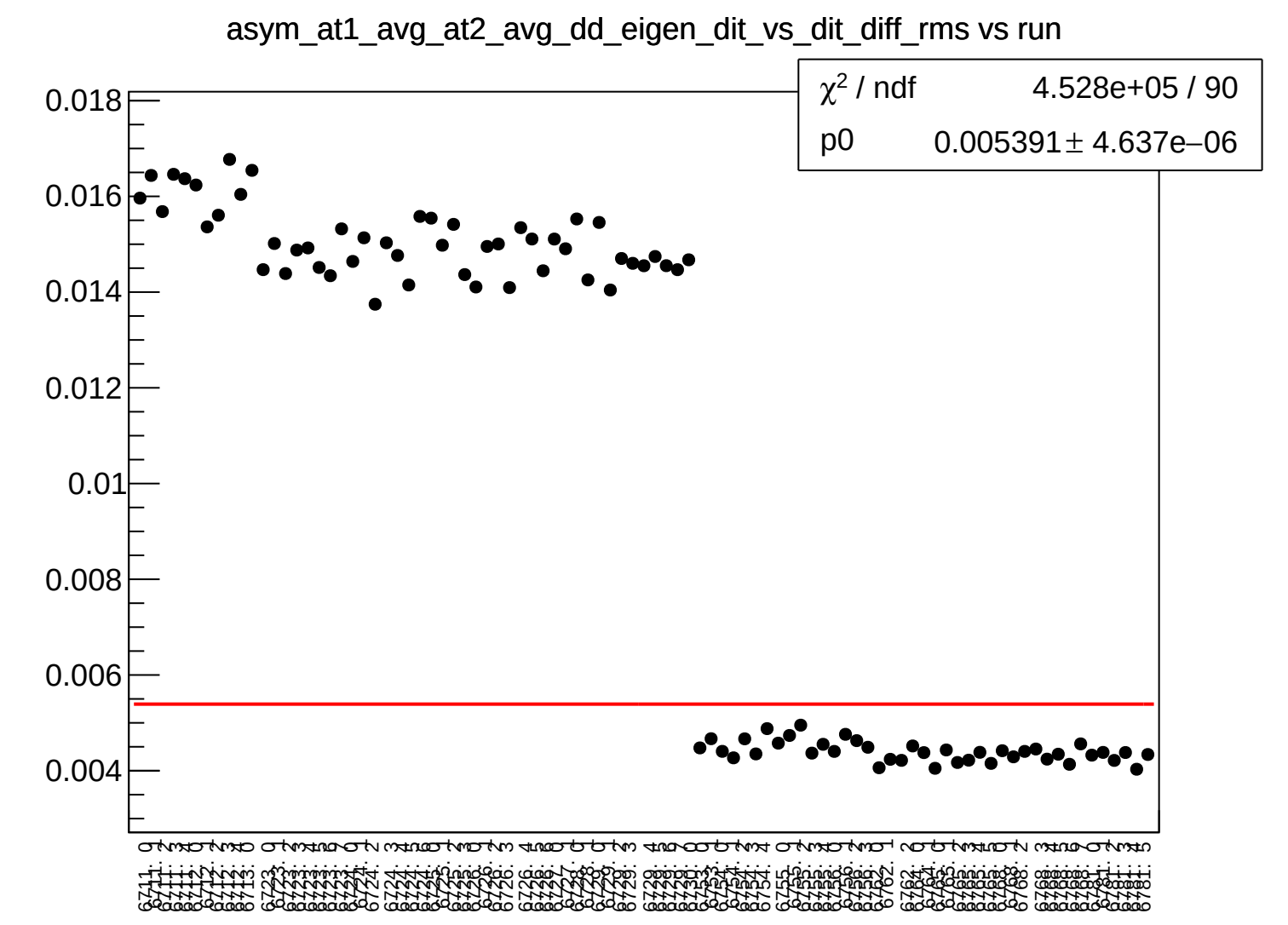

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.509e+04 / 90
p0 285.9 ± 0.2161
420
400
380
360
340
320
300
280
260
240
220

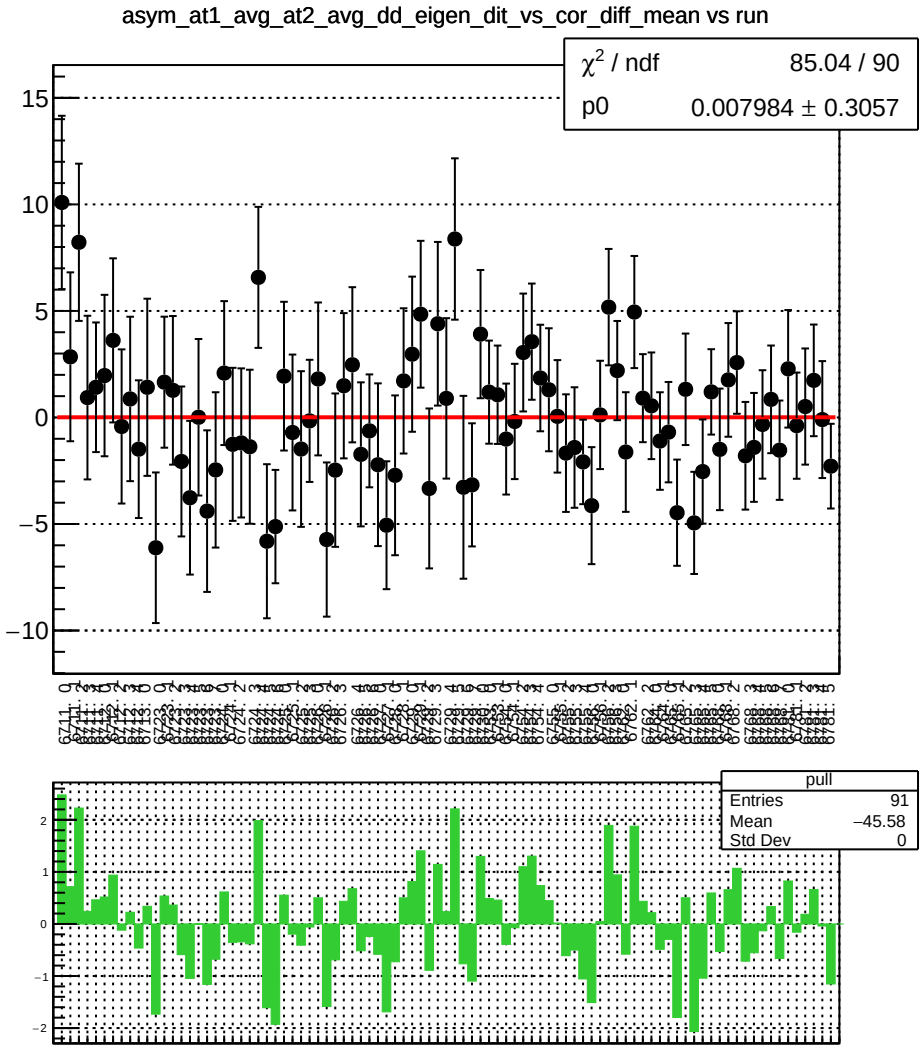

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.04 / 90
p0 0.007984 ± 0.3057
pull
Entries 91
Mean −45.59
Std Dev 0

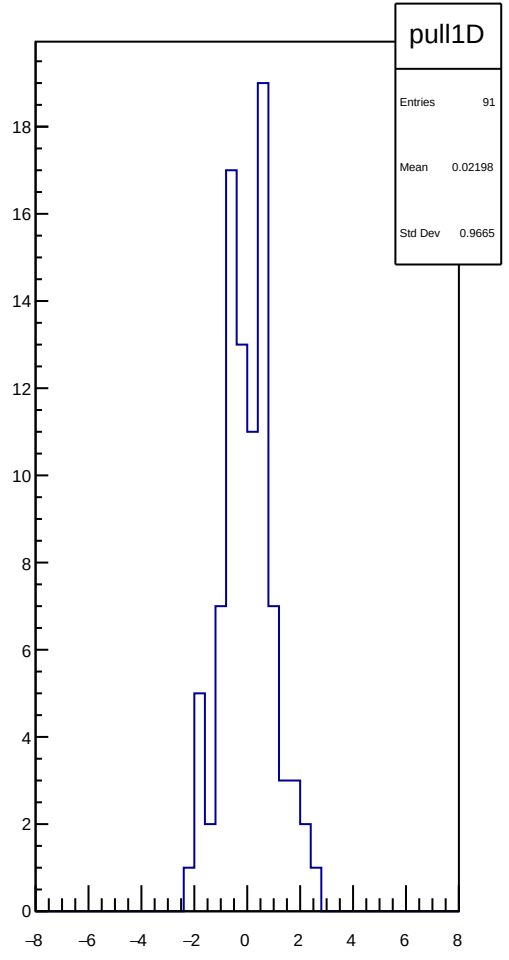

pull1D
Entries 91
Mean 0.02198
Std Dev 0.9665

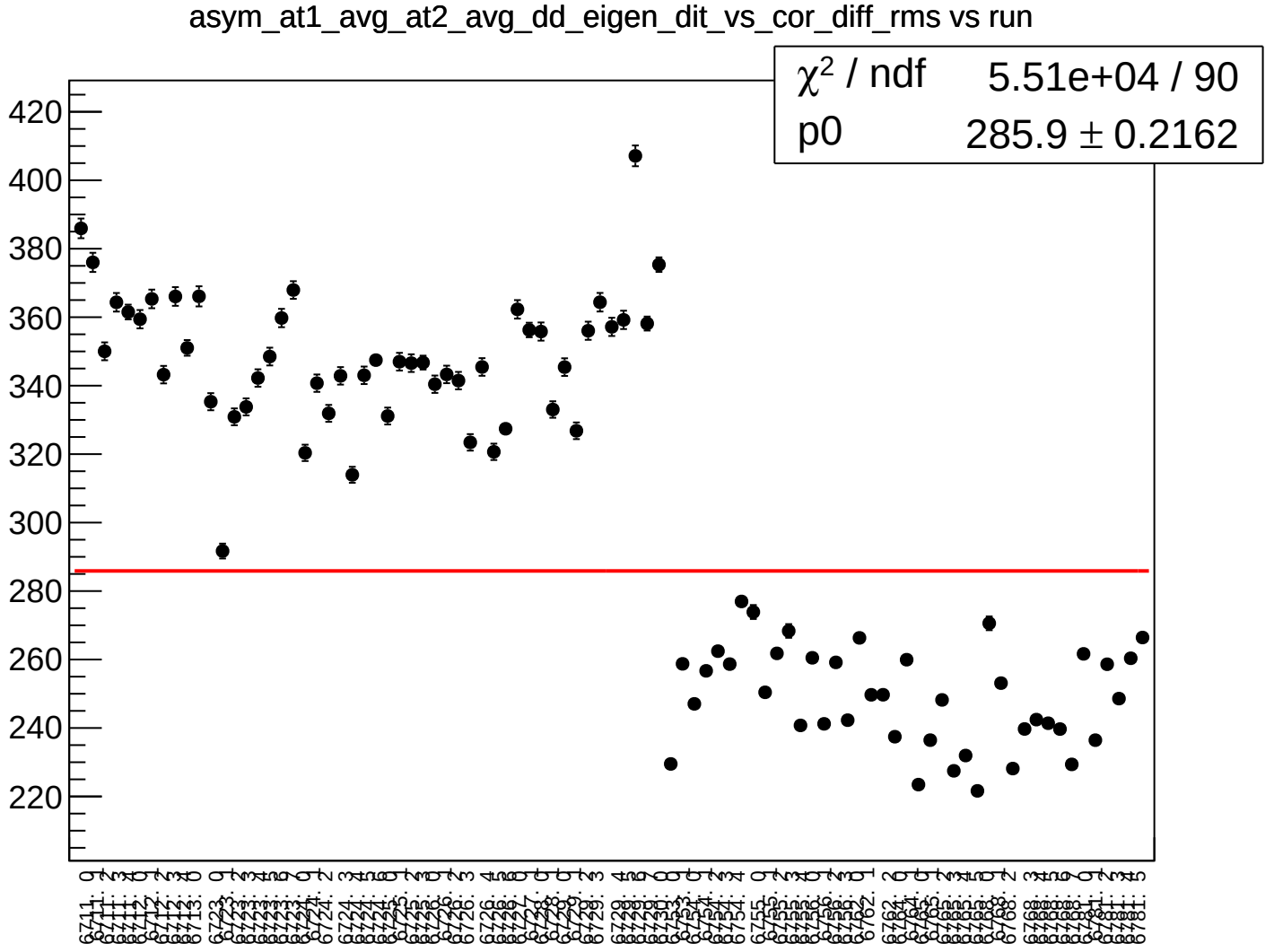

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.509e+04 / 90
p0 285.9 ± 0.2161
420
400
380
360
340
320
300
280
260
240
220

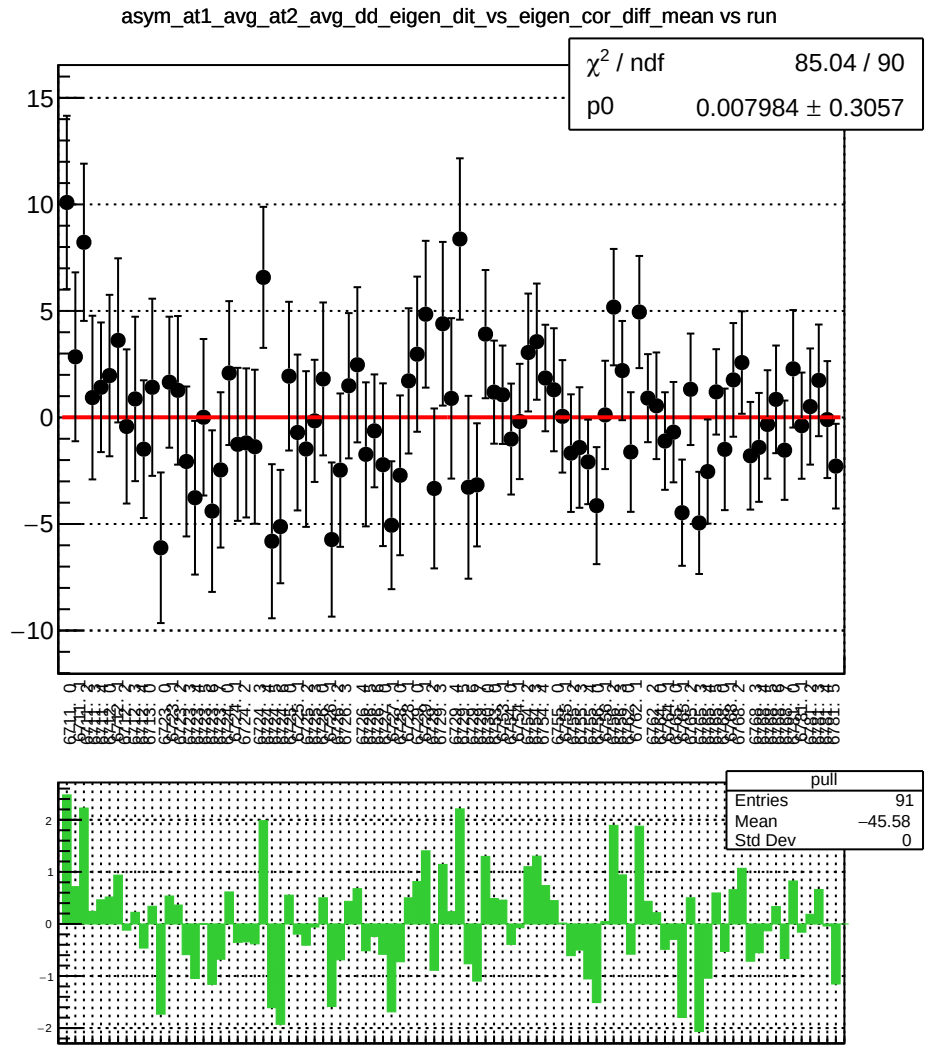

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.9 / 90
p0 −5.282e−06 ± 6.558e−06
pull
Entries 91
Mean −22.78
Std Dev 0
pull1D
Entries 91
Mean 0.05321
Std Dev 1.052

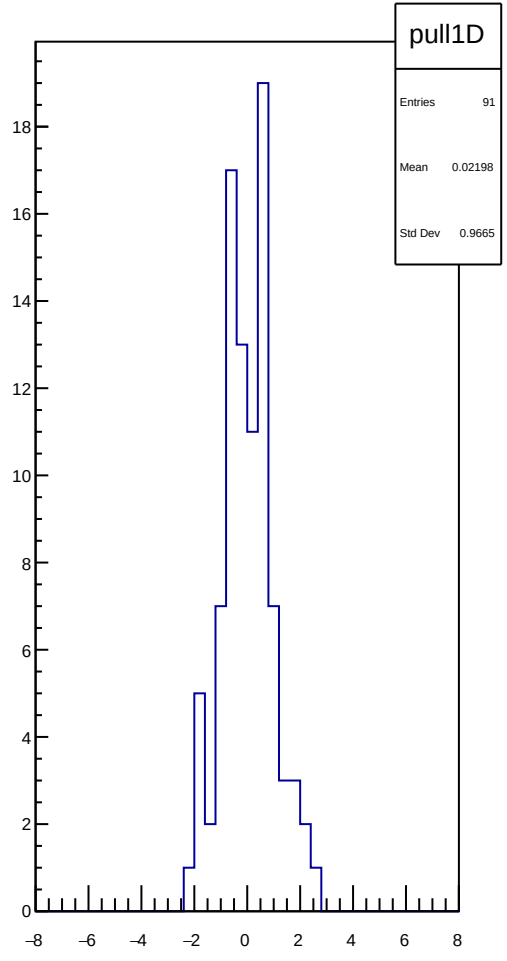

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.528e+05 / 90
p0 0.005391 ± 4.637e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

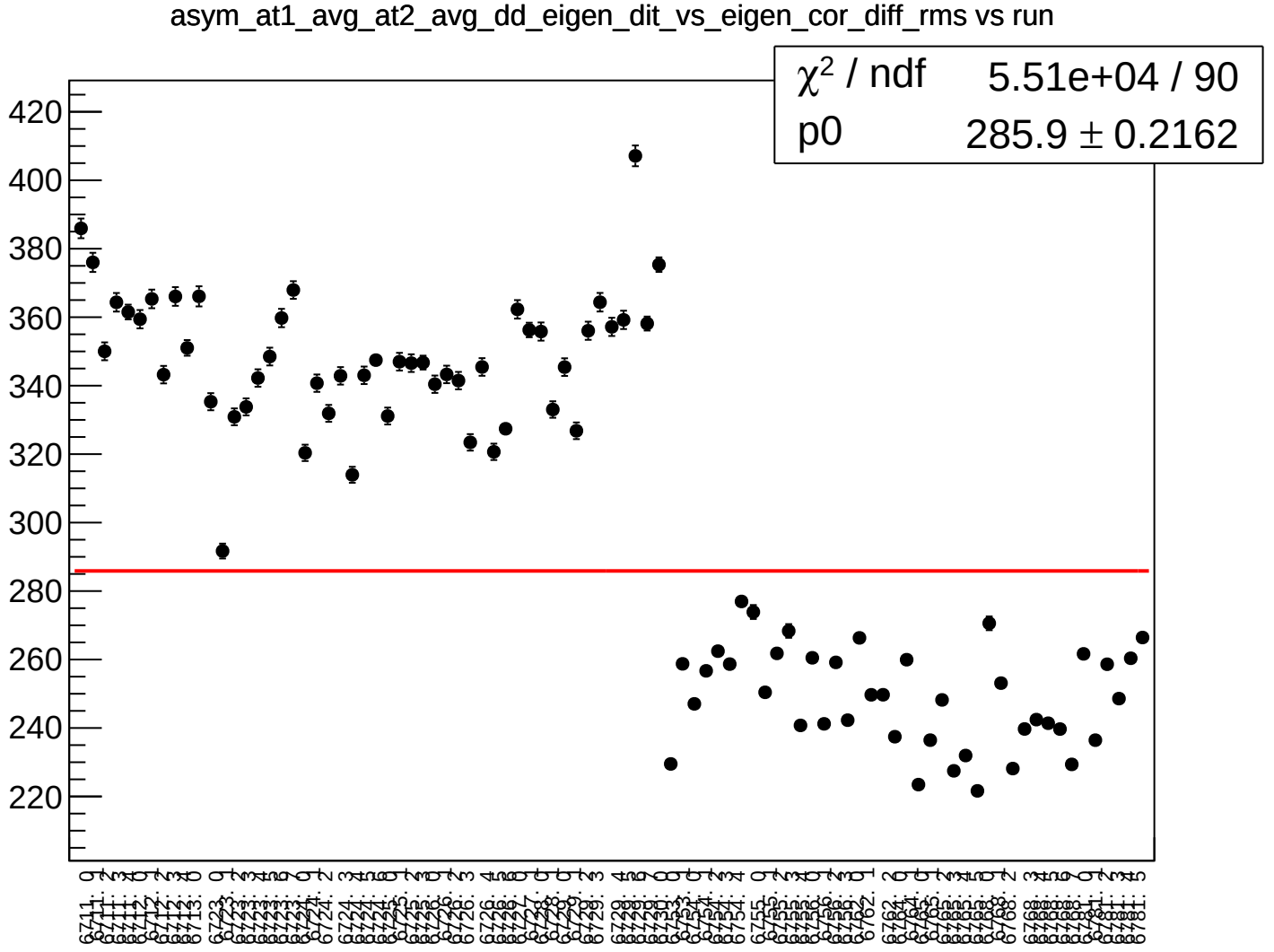

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.04 / 90
p0 0.007984 ± 0.3057
pull
Entries 91
Mean −45.58
Std Dev 0

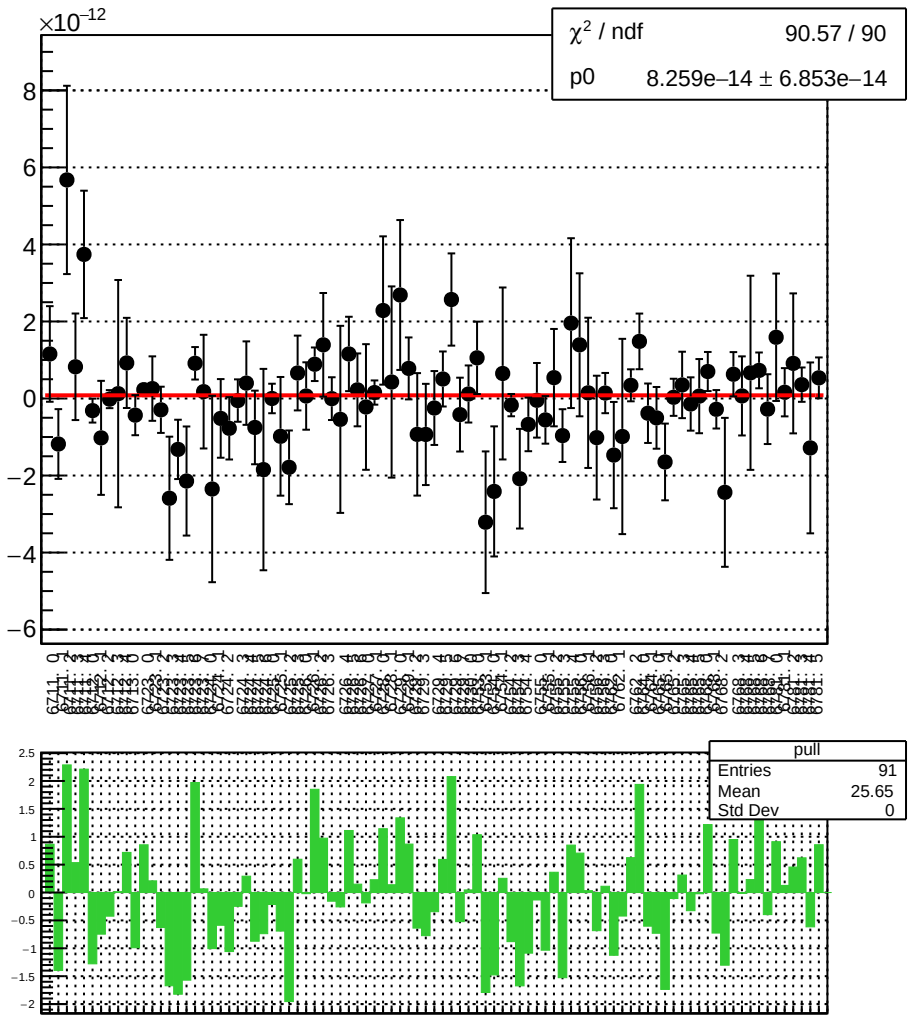

pull1D
Entries 91
Mean 0.02198
Std Dev 0.9665

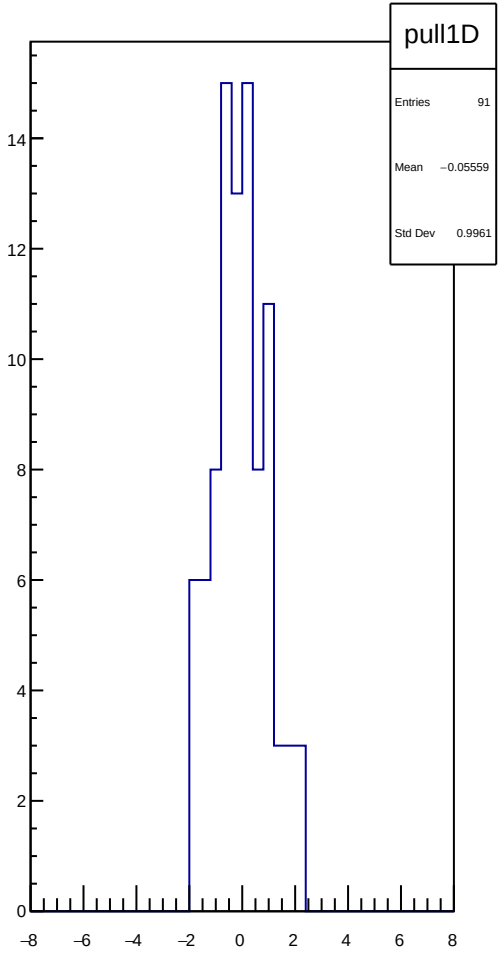

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.51e+04 / 90
p0 285.9 ± 0.2162
420
400
380
360
340
320
300
280
260
240
220

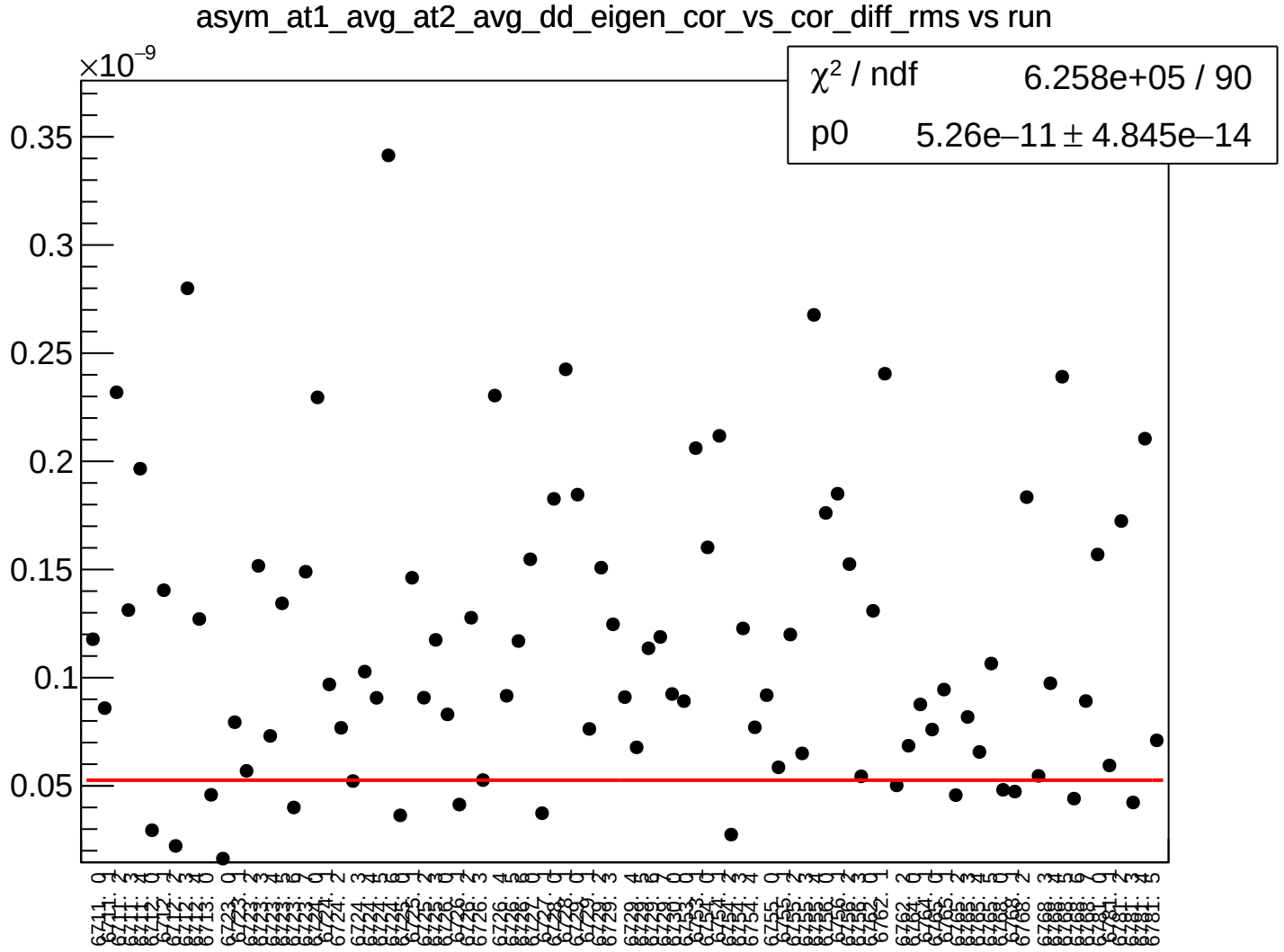

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.04 / 90
p0 0.007984 ± 0.3057
pull
Entries 91
Mean −45.58
Std Dev 0

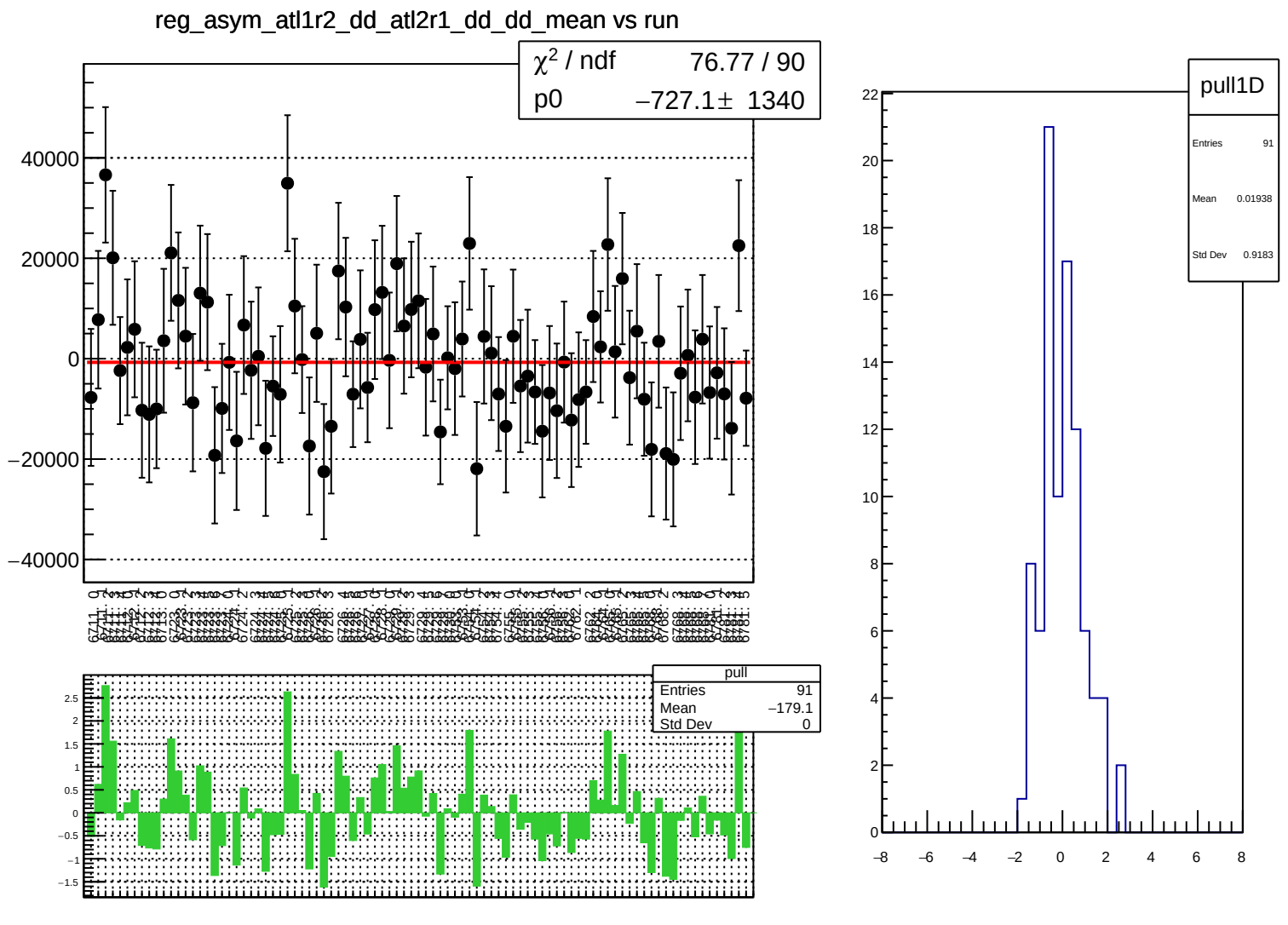

pull1D
Entries 91
Mean 0.02198
Std Dev 0.9665

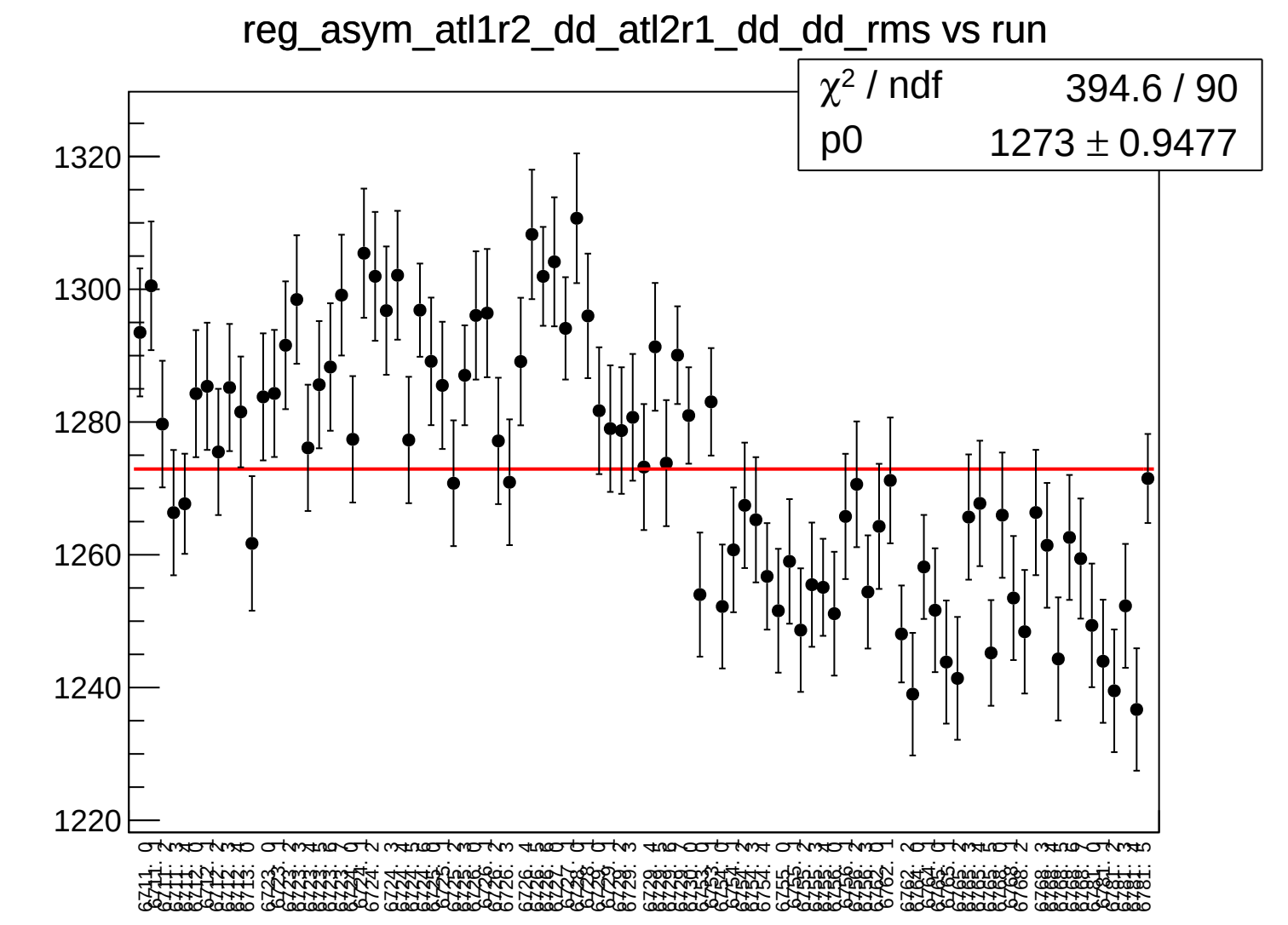

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.51e+04 / 90
p0 285.9 ± 0.2162
420
400
380
360
340
320
300
280
260
240
220

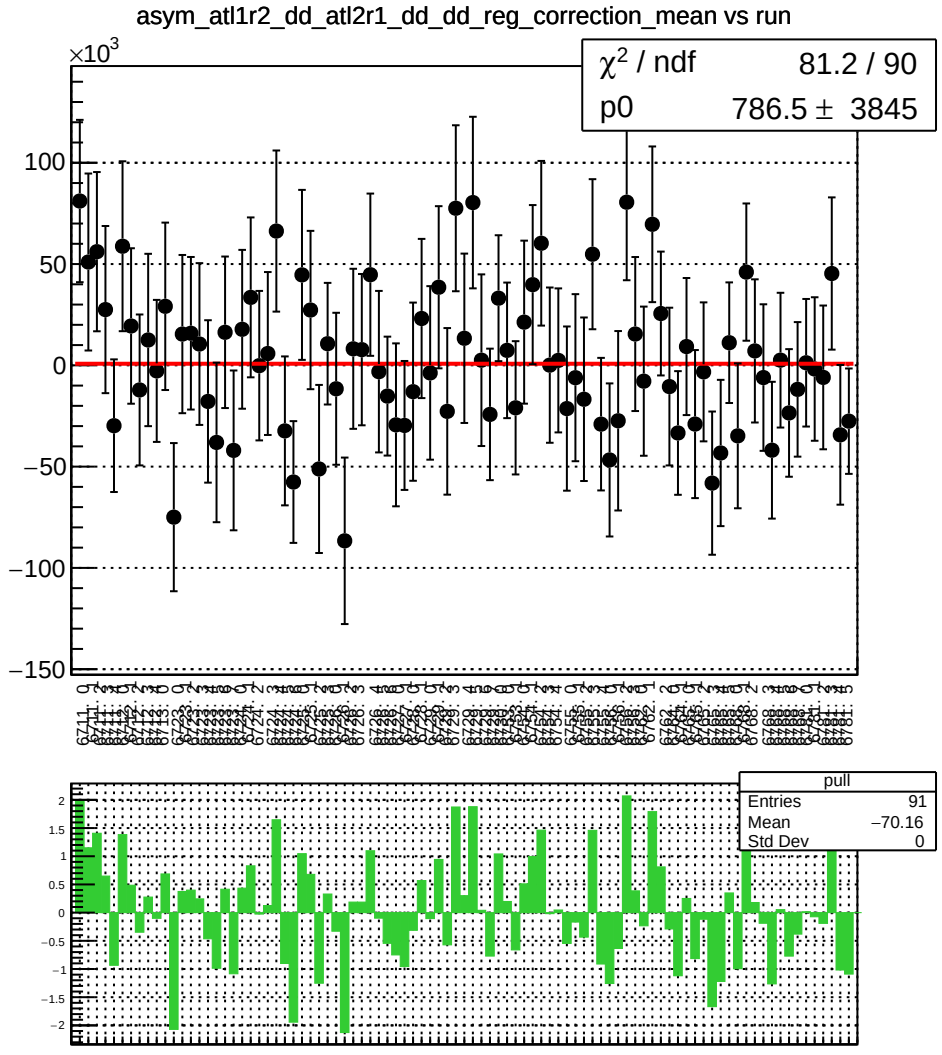

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 90.57 / 90
p0 8.259e−14 ± 6.853e−14
pull
Entries 91
Mean 25.65
Std Dev 0

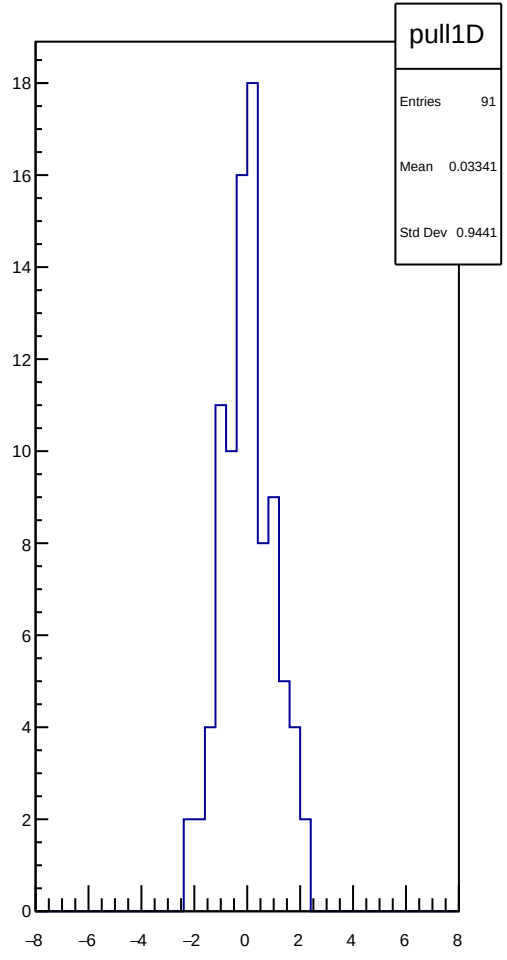

pull1D
Entries 91
Mean −0.05559
Std Dev 0.9961

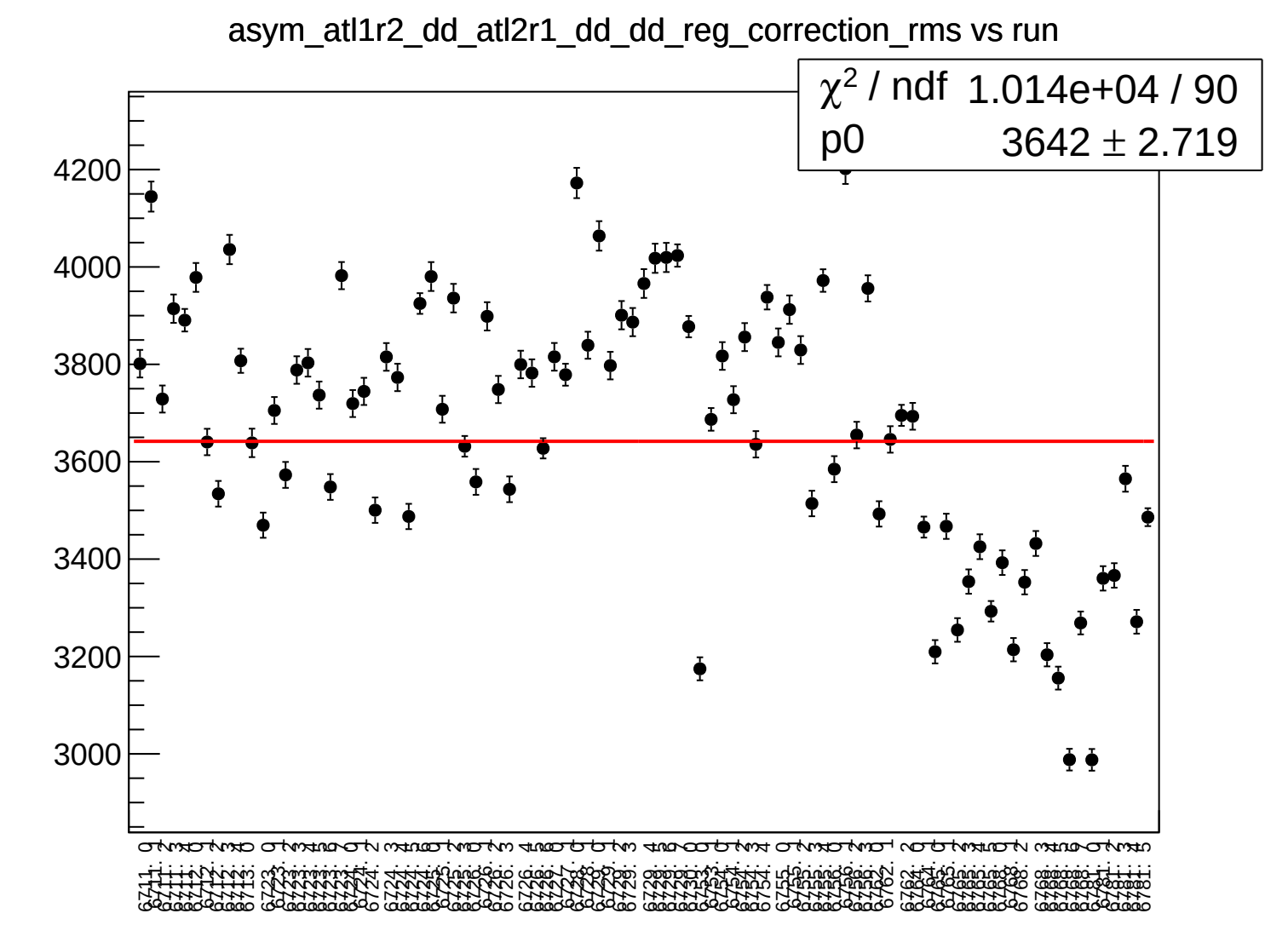

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.258e+05 / 90
p0 5.26e−11 ± 4.845e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

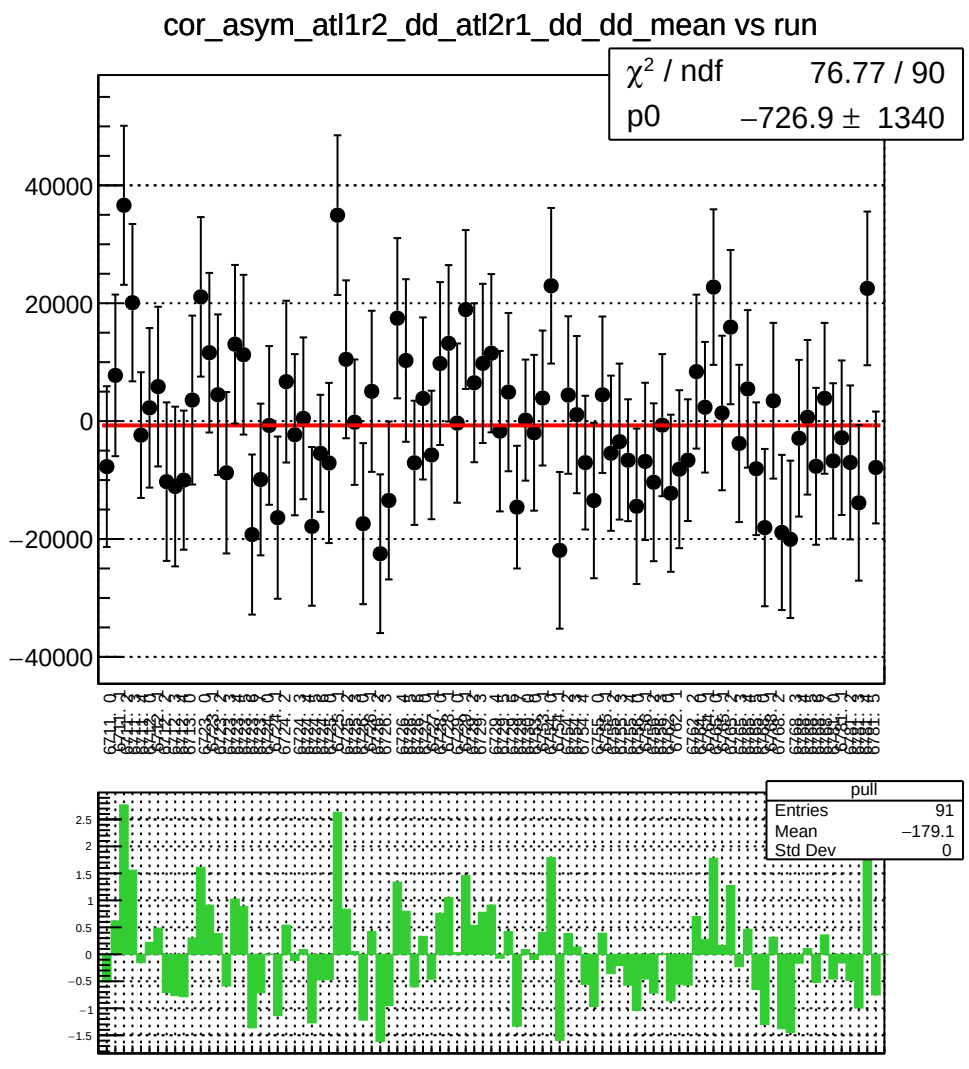

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 76.77 / 90
p0 −727.1± 1340
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −179.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean 0.01938
Std Dev 0.9183
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

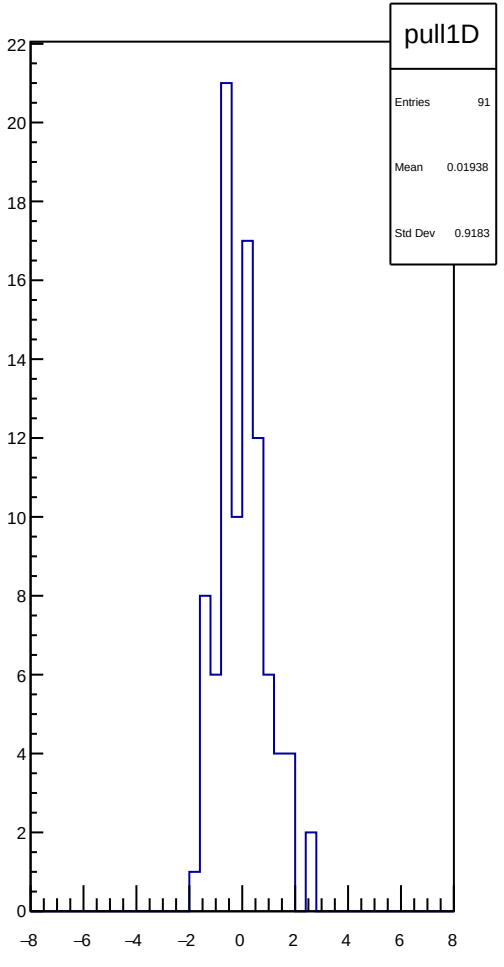

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 394.6 / 90
p0 1273 ± 0.9477
1320
1300
1280
1260
1240
1220

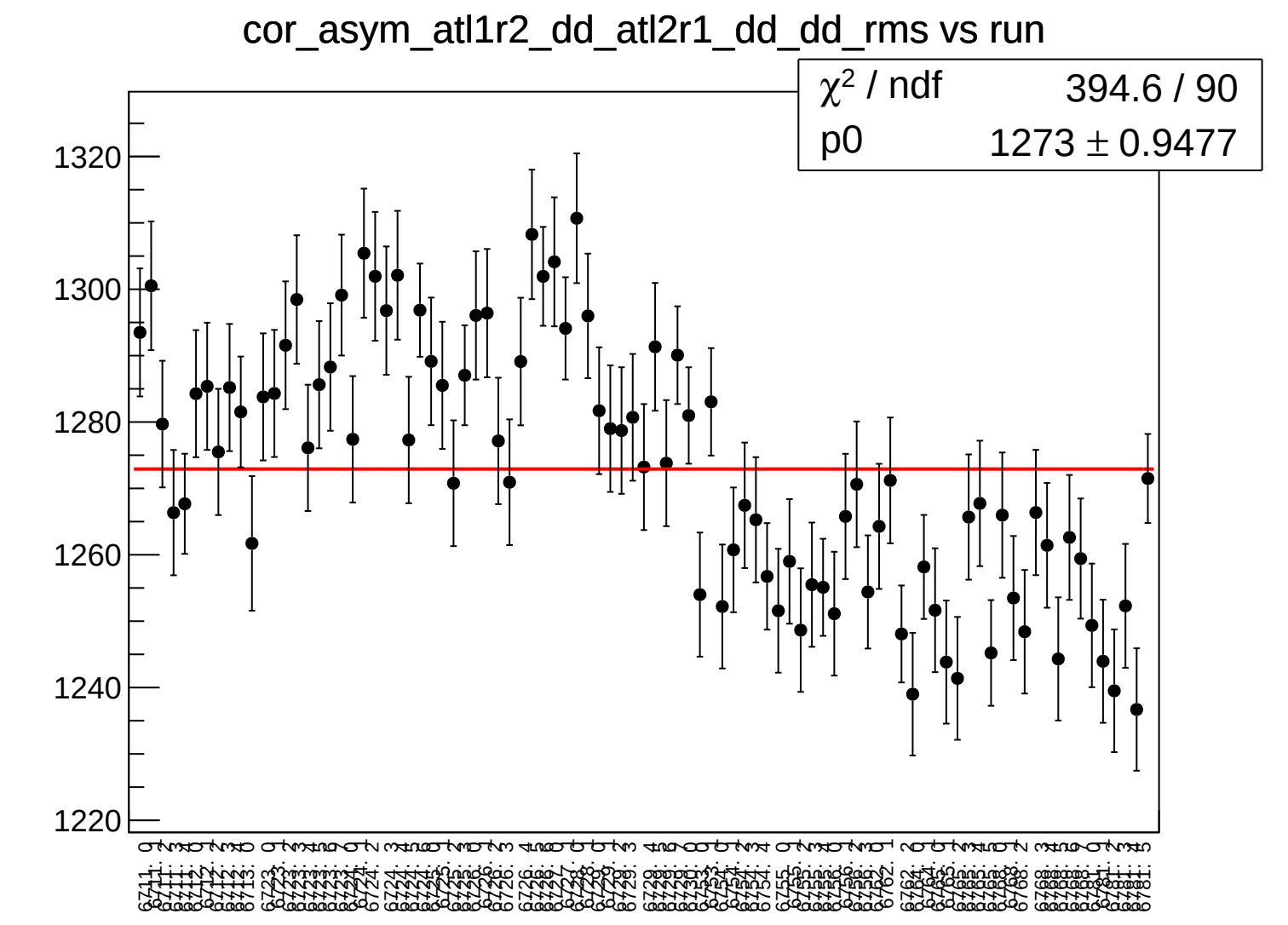

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
χ² / ndf 81.2 / 90
p0 786.5 ± 3845
×10³
pull
Entries 91
Mean −70.16
Std Dev 0

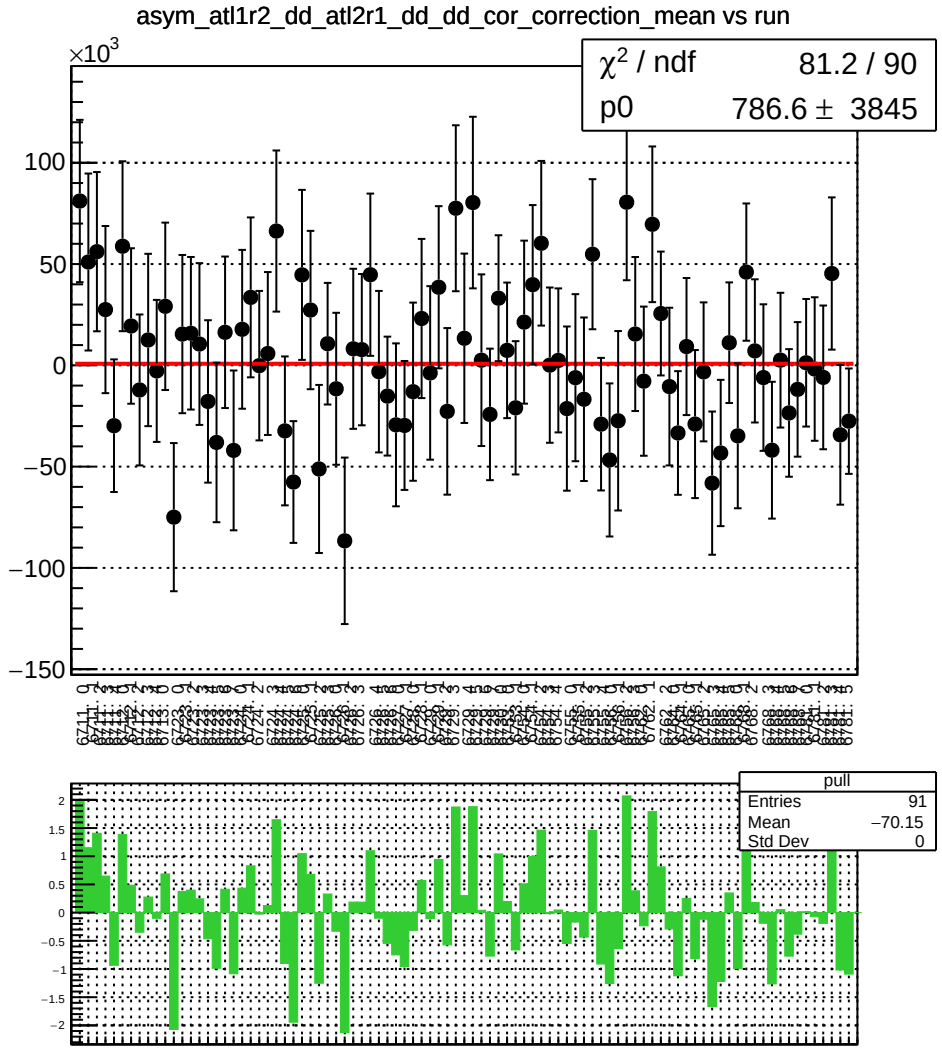

pull1D
Entries 91
Mean 0.03341
Std Dev 0.9441

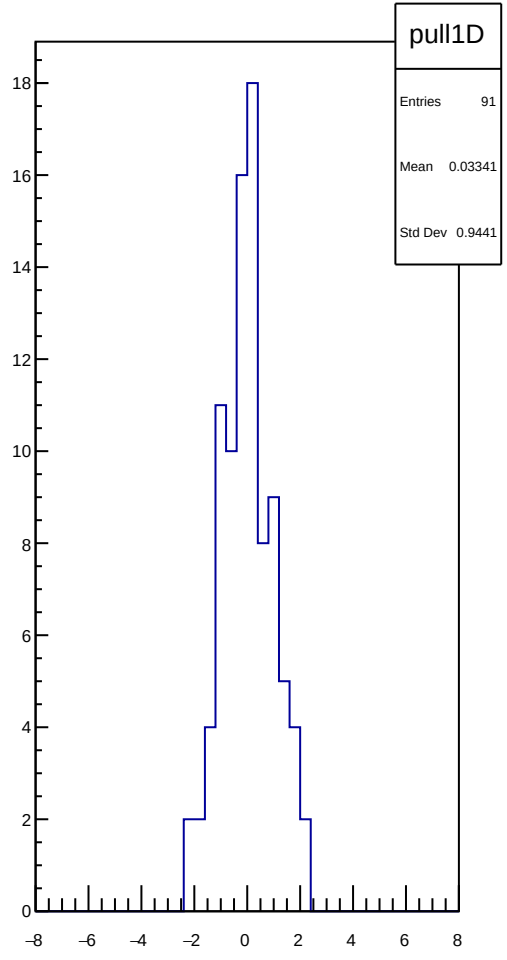

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 1.014e+04 / 90
p0 3642 ± 2.719
4200
4000
3800
3600
3400
3200
3000


cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 76.77 / 90
p0 −726.9 ± 1340
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −179.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 91
Mean 0.01938
Std Dev 0.9183
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 394.6 / 90
p0 1273 ± 0.9477
1320
1300
1280
1260
1240
1220


asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 81.2 / 90
p0 786.6 ± 3845
100
50
0
−50
−100
−150
pull
Entries 91
Mean −70.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 91
Mean 0.03341
Std Dev 0.9441
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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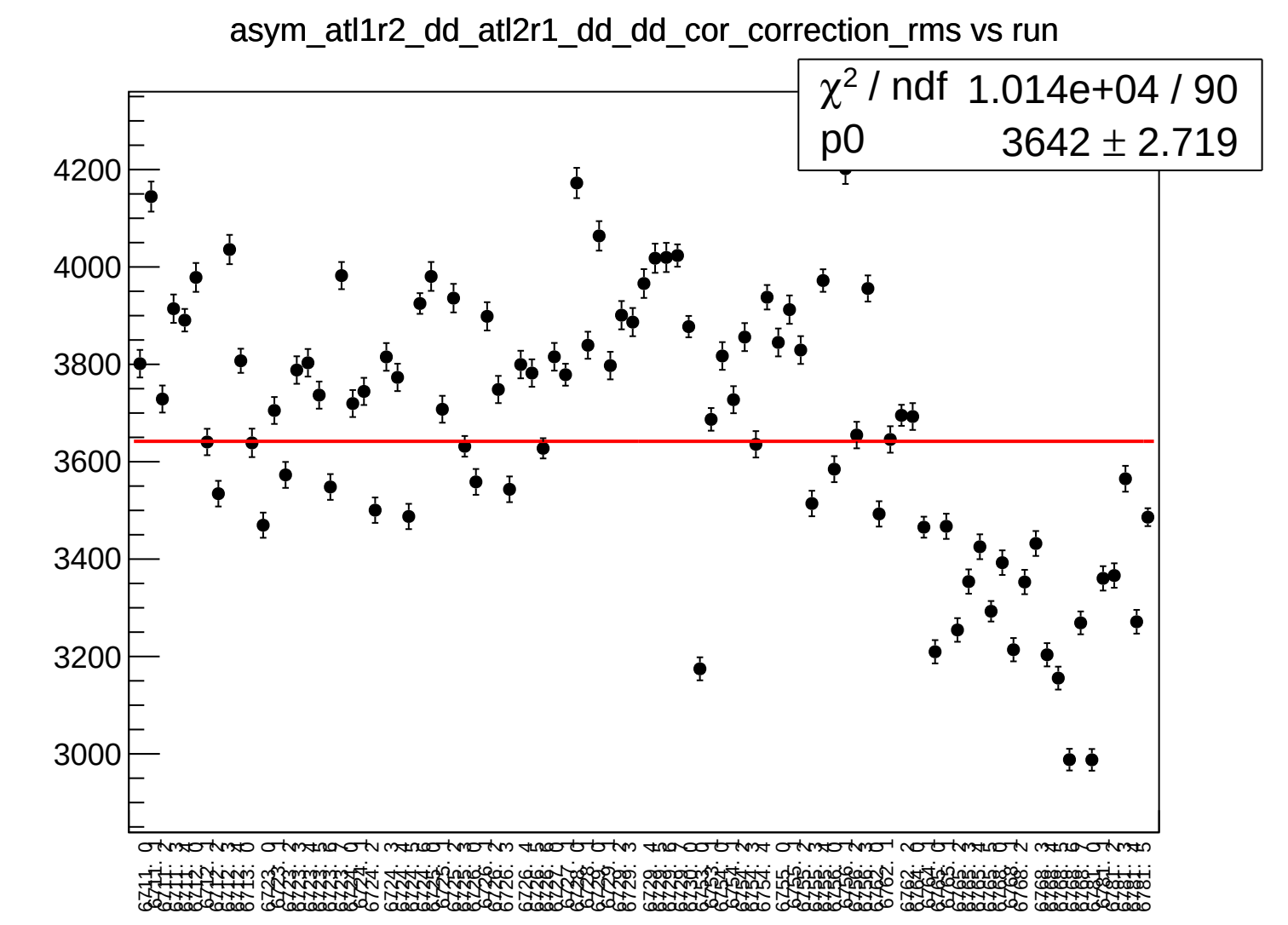
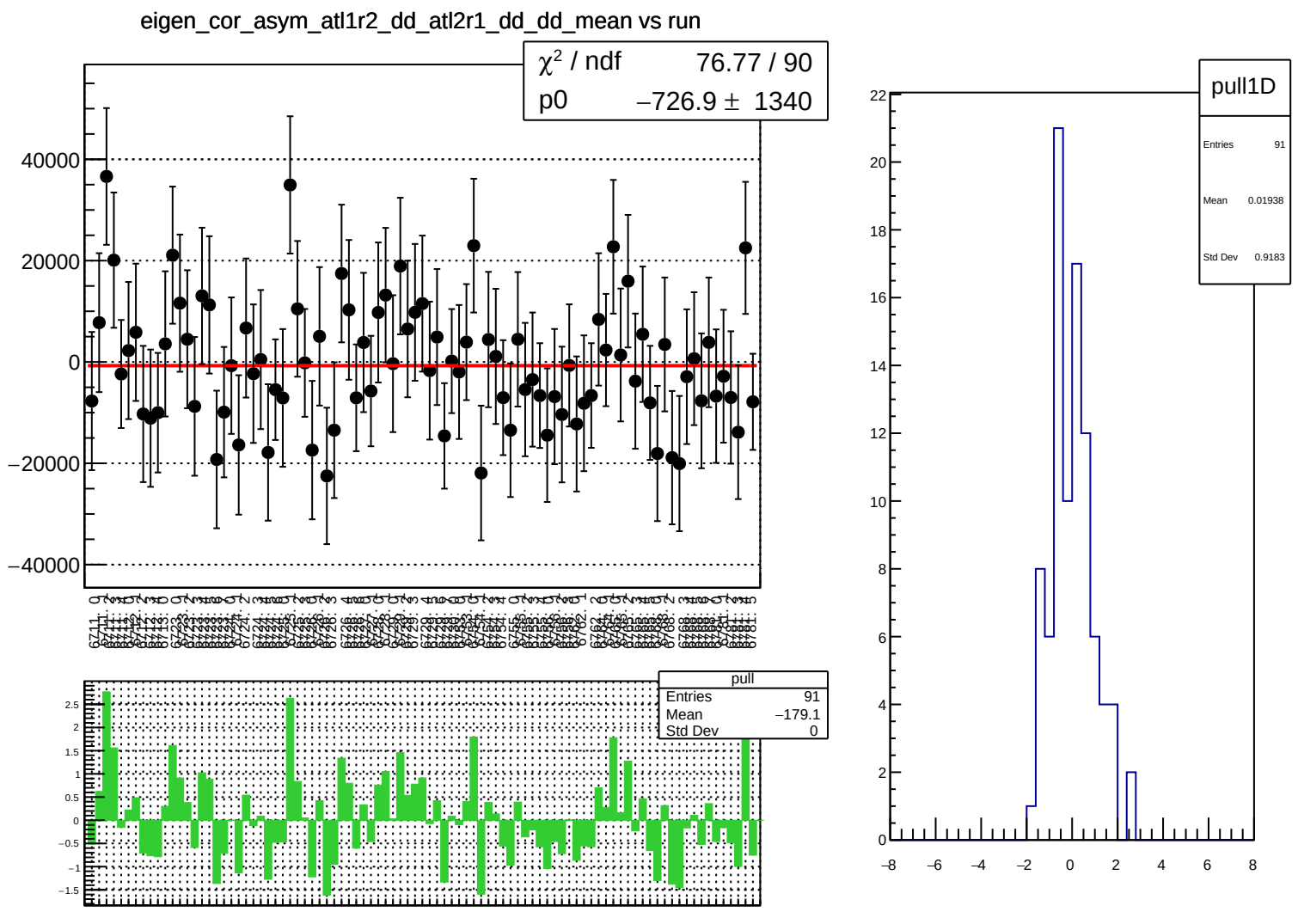
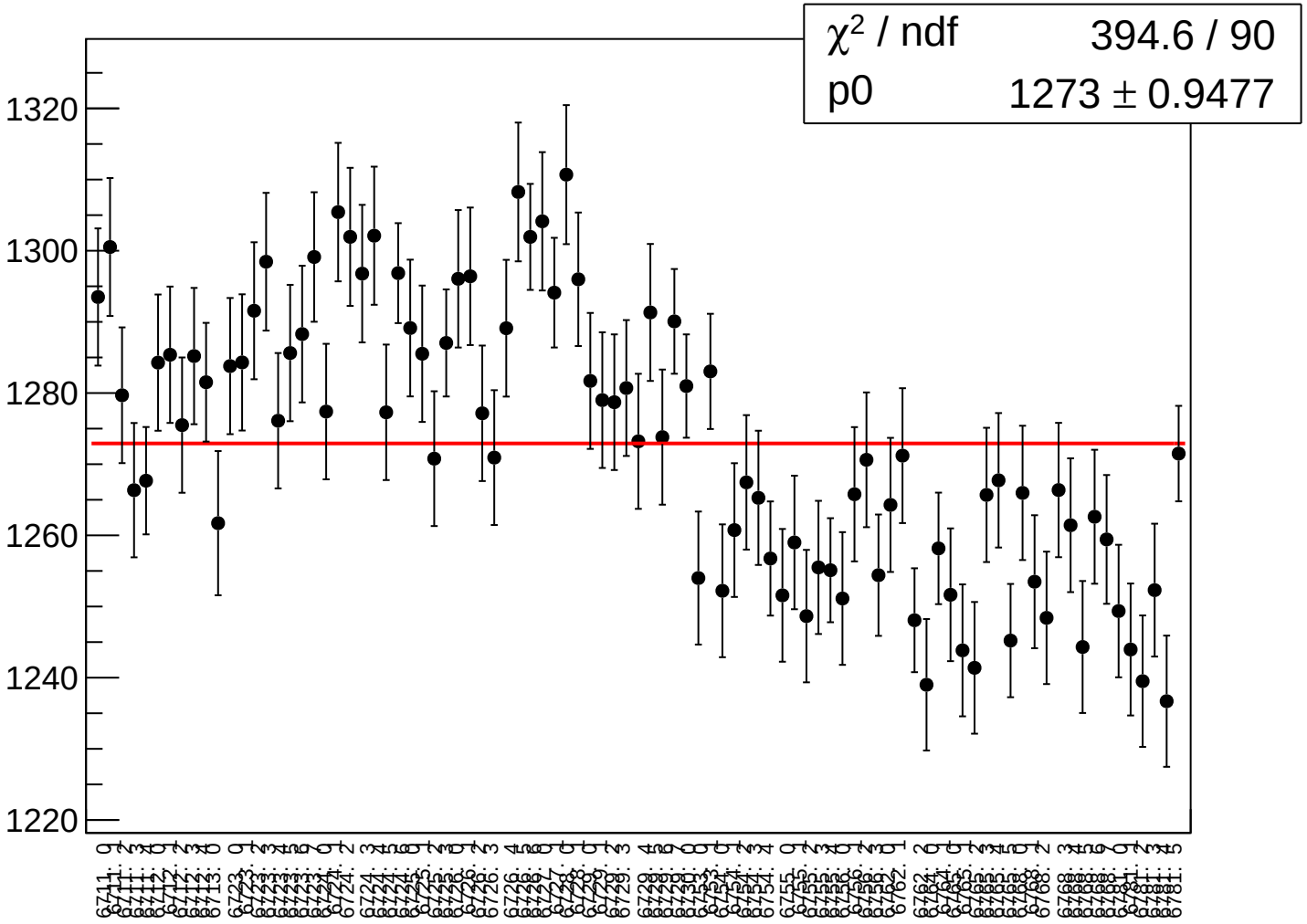
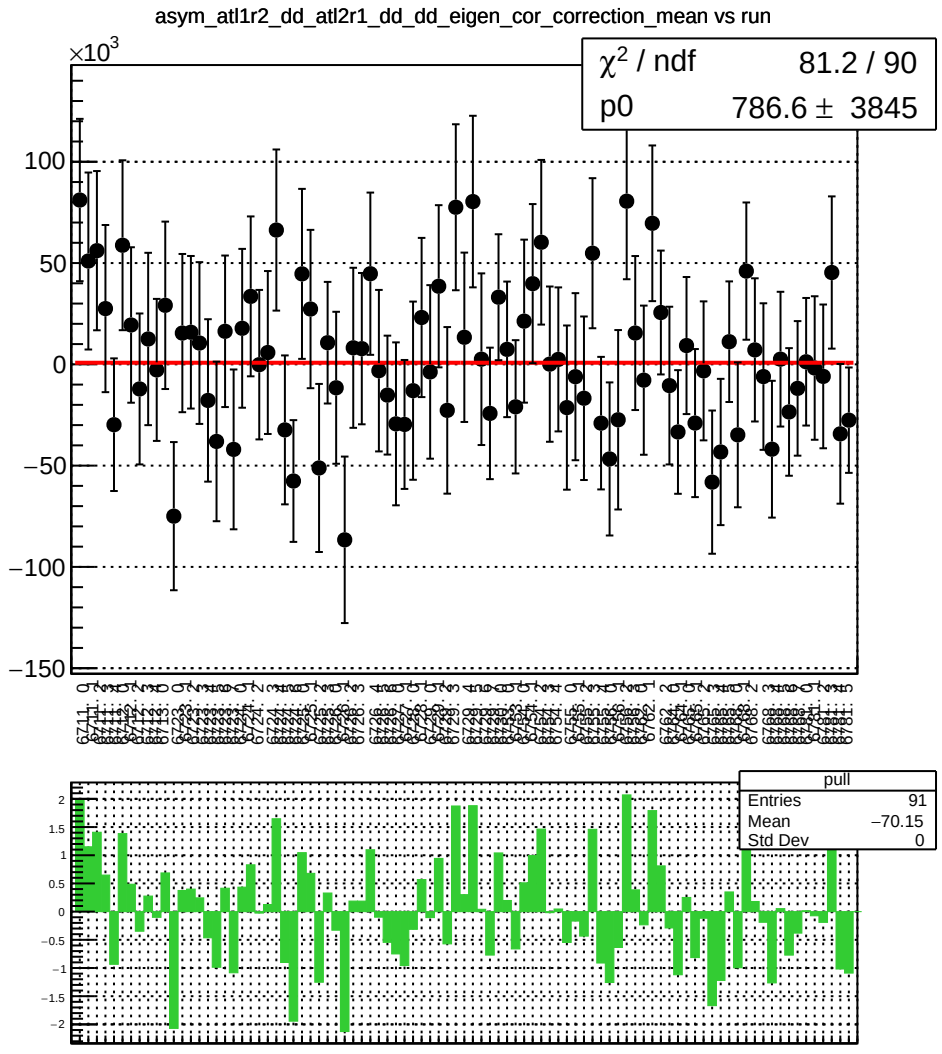
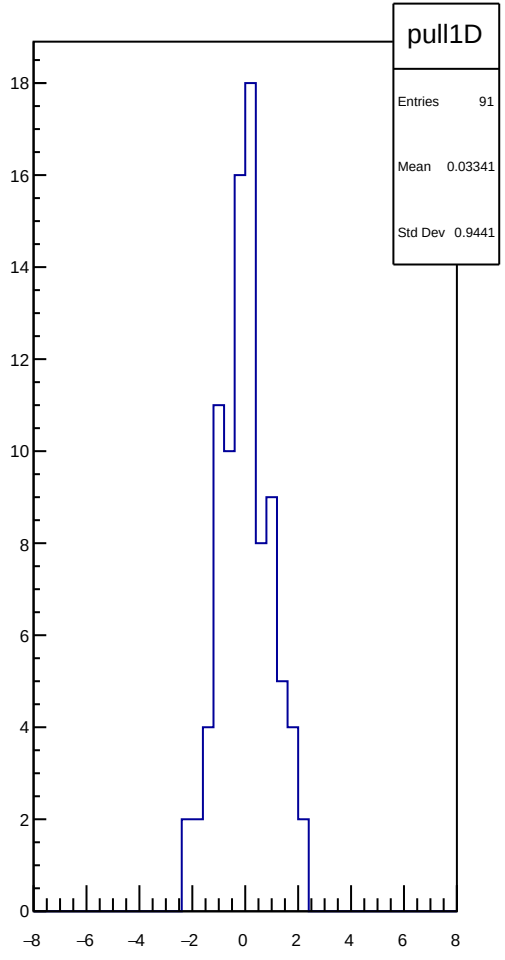
0
2
4
6
8

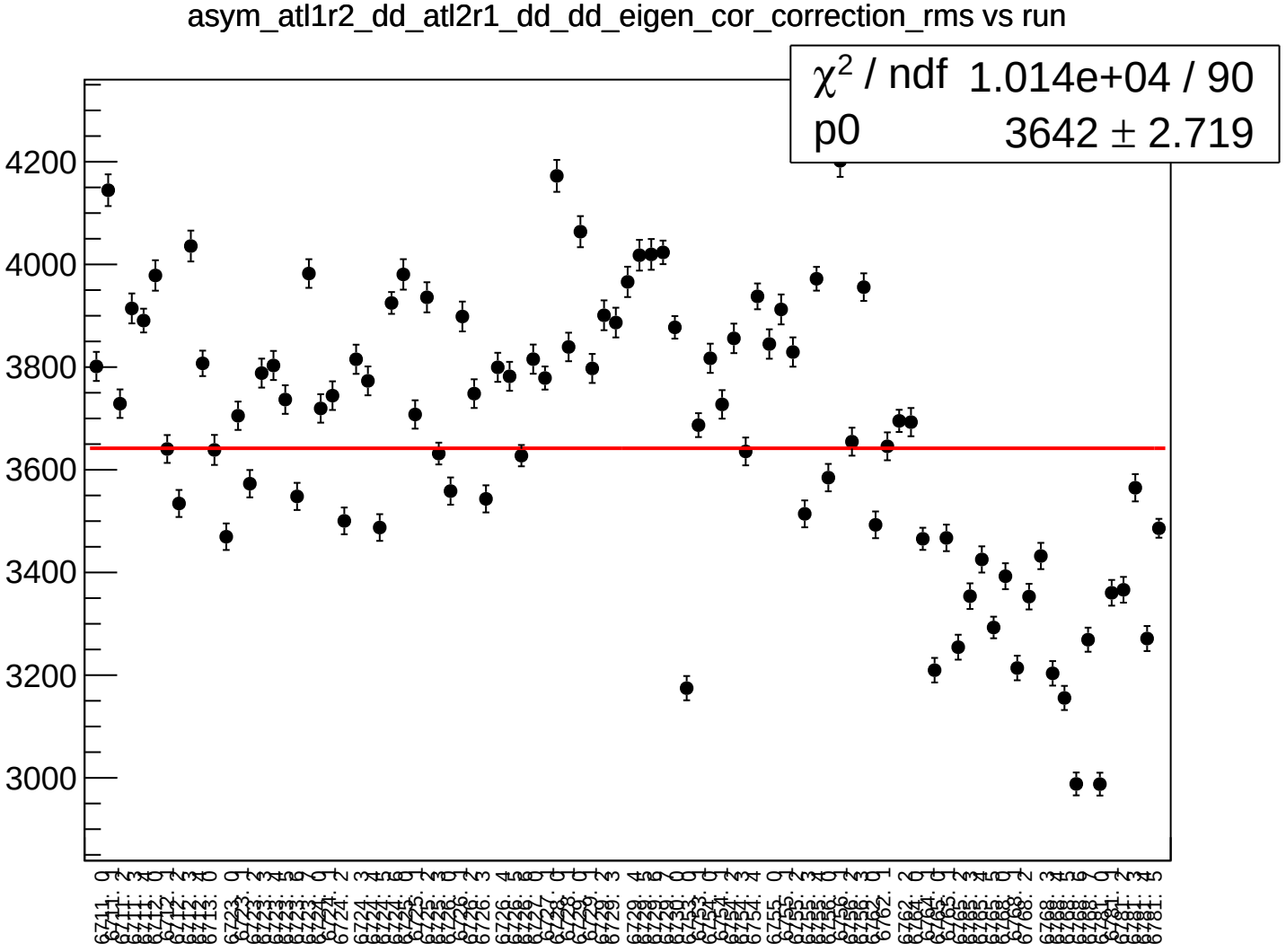

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 1.014e+04 / 90
p0 3642 ± 2.719
4200
4000
3800
3600
3400
3200
3000

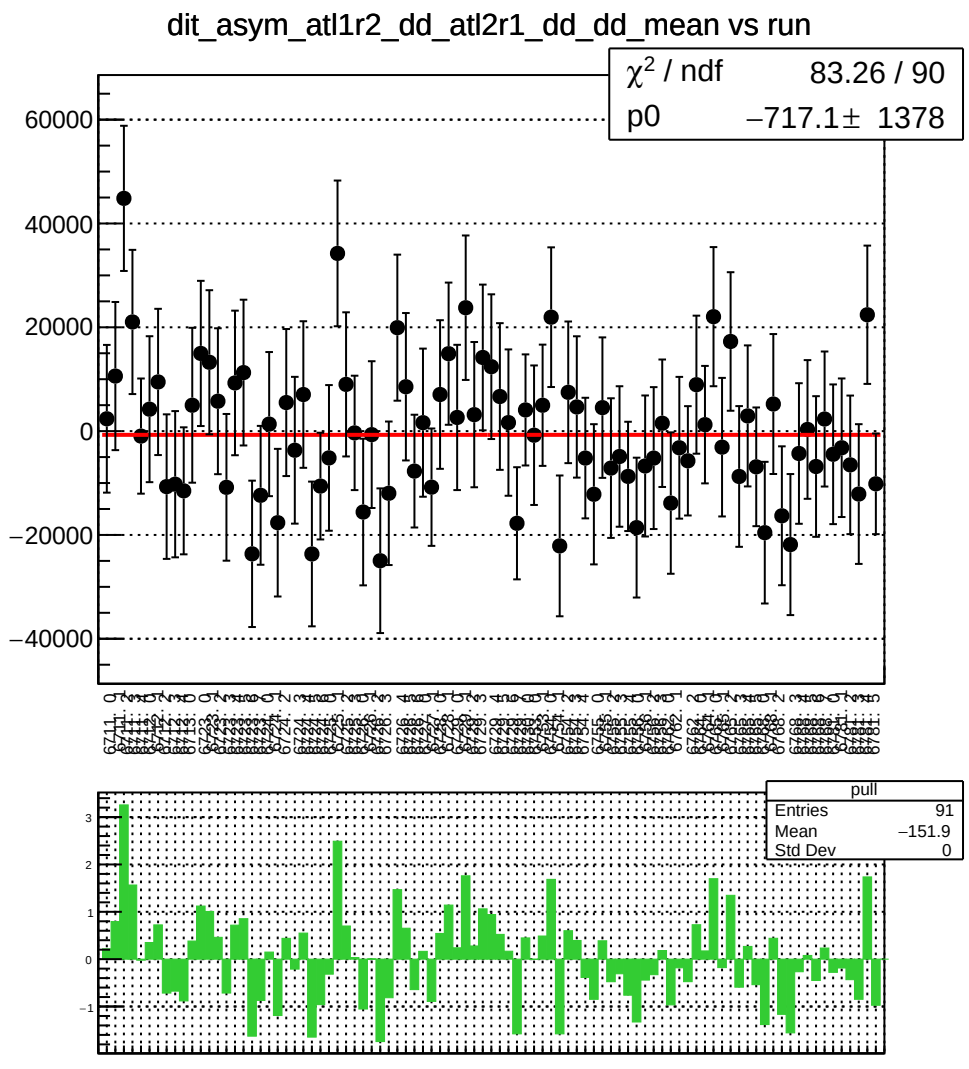

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 76.77 / 90
p0 −726.9 ± 1340
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −179.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean 0.01938
Std Dev 0.9183
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

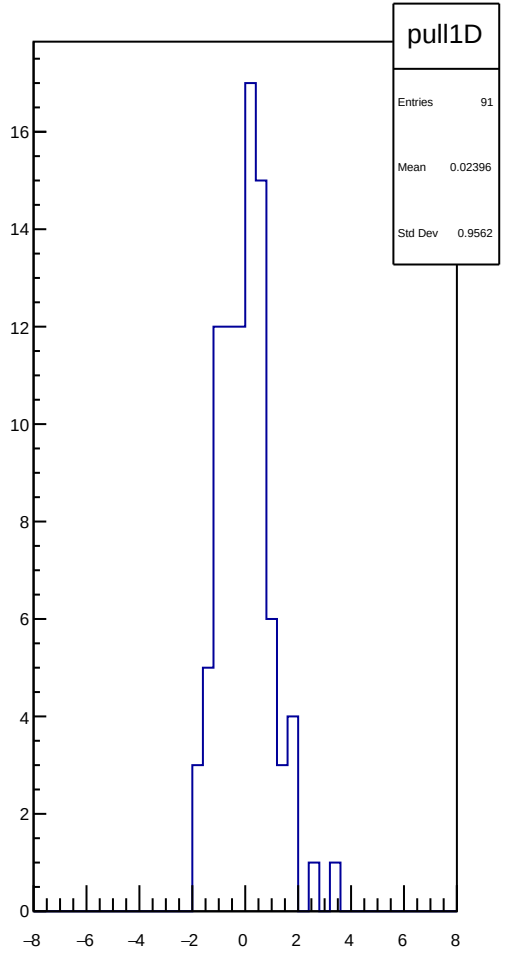

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 394.6 / 90
p0 1273 ± 0.9477
1320
1300
1280
1260
1240
1220

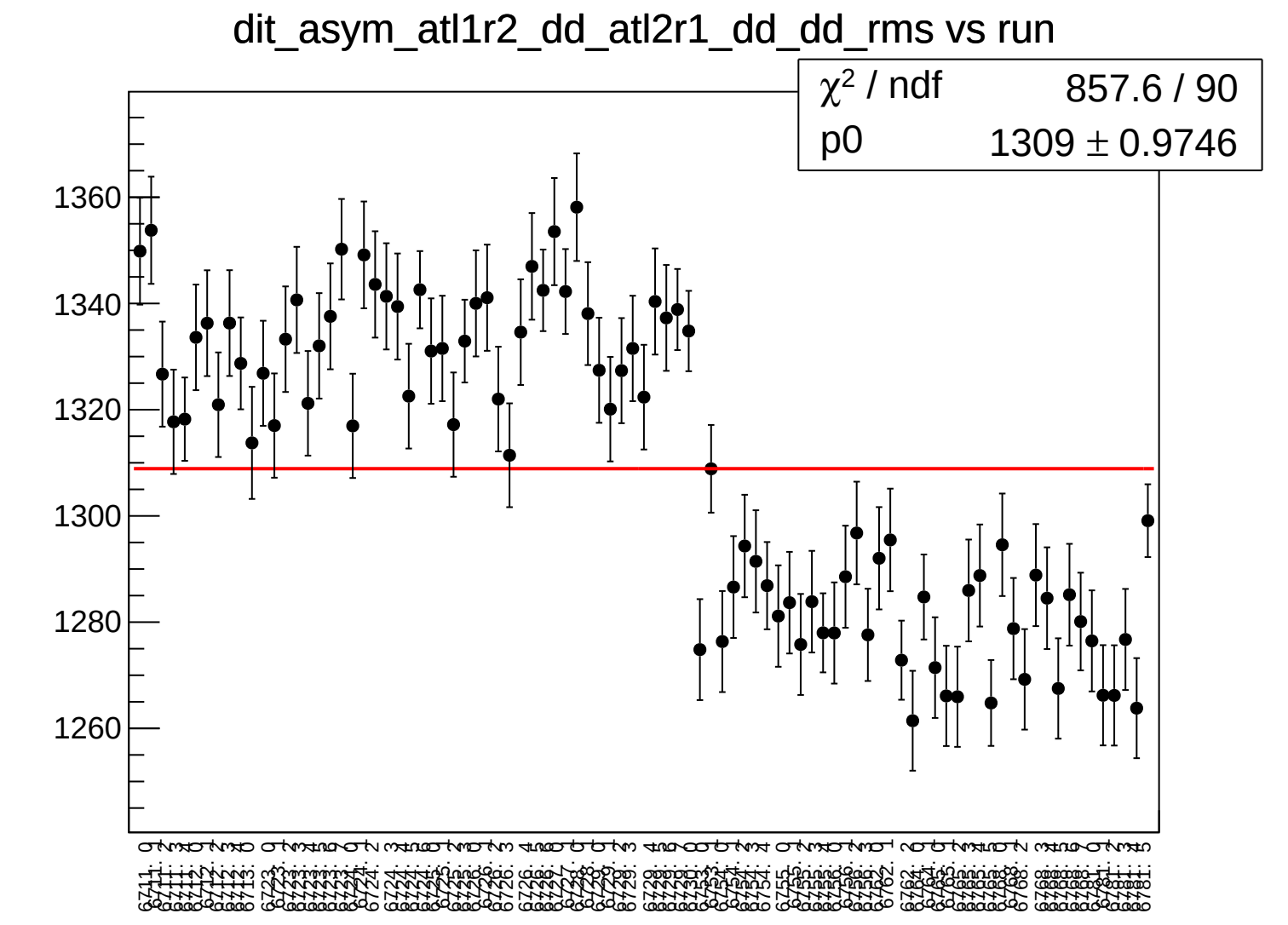

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.2 / 90
p0 786.6 ± 3845
100
50
0
−50
−100
−150
pull
Entries 91
Mean −70.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

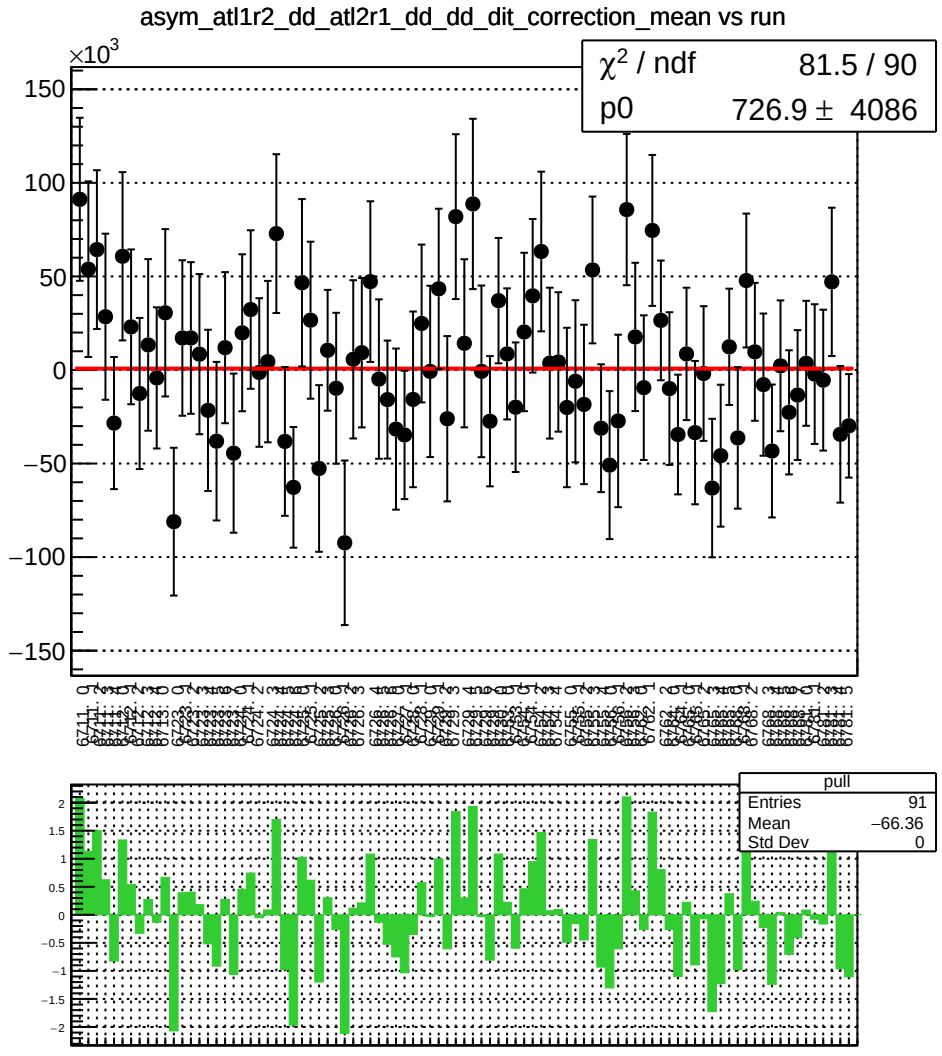

pull1D
Entries 91
Mean 0.03341
Std Dev 0.9441
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

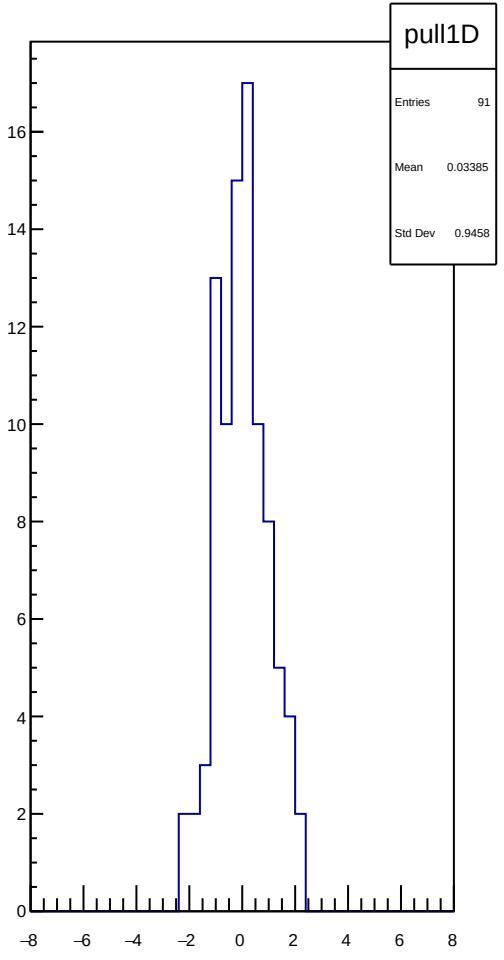

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.014e+04 / 90
p0 3642 ± 2.719
4200
4000
3800
3600
3400
3200
3000

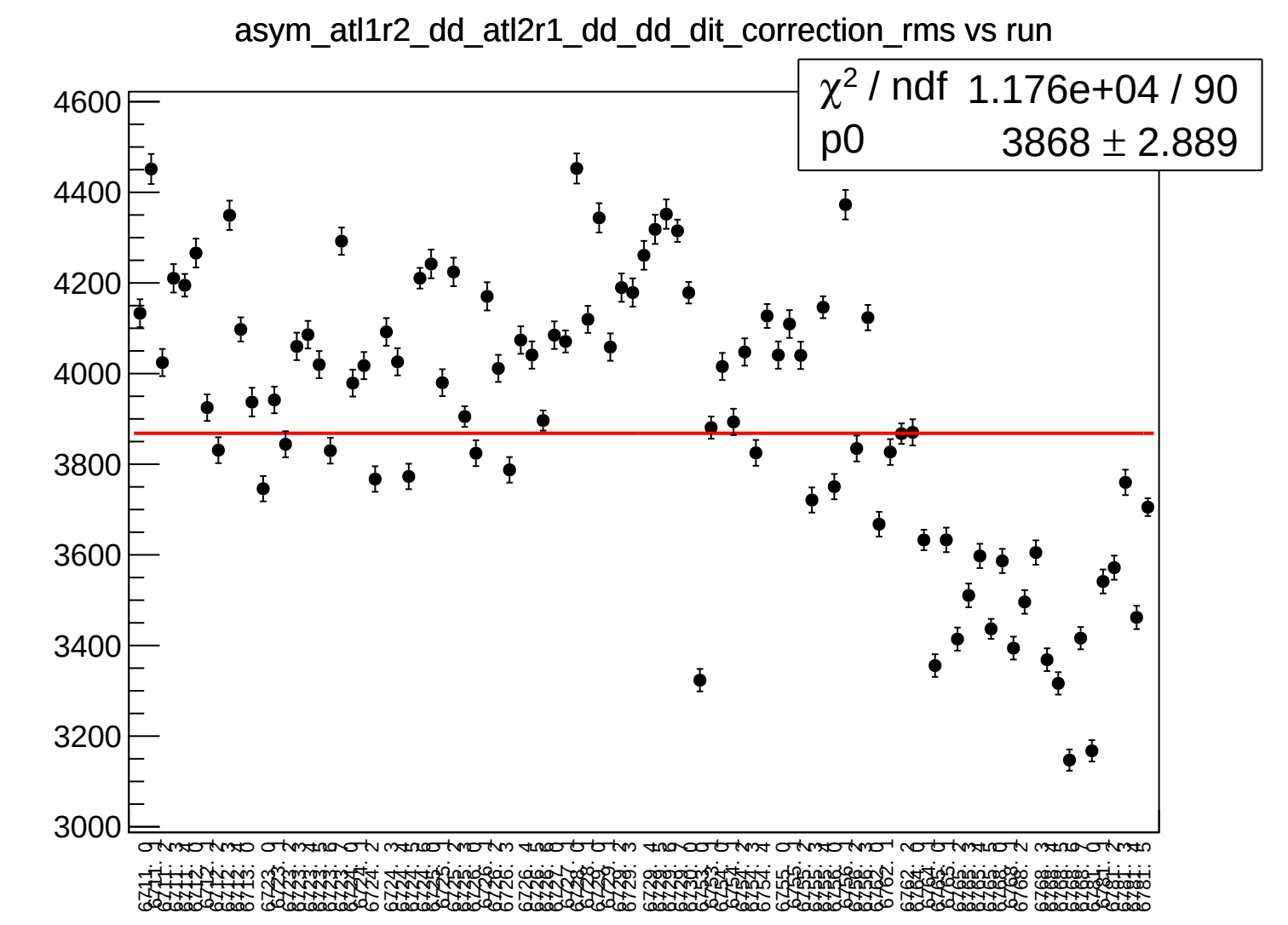

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 83.26 / 90
p0 −717.1± 1378
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −151.9
Std Dev 0
3
2
1
0
−1

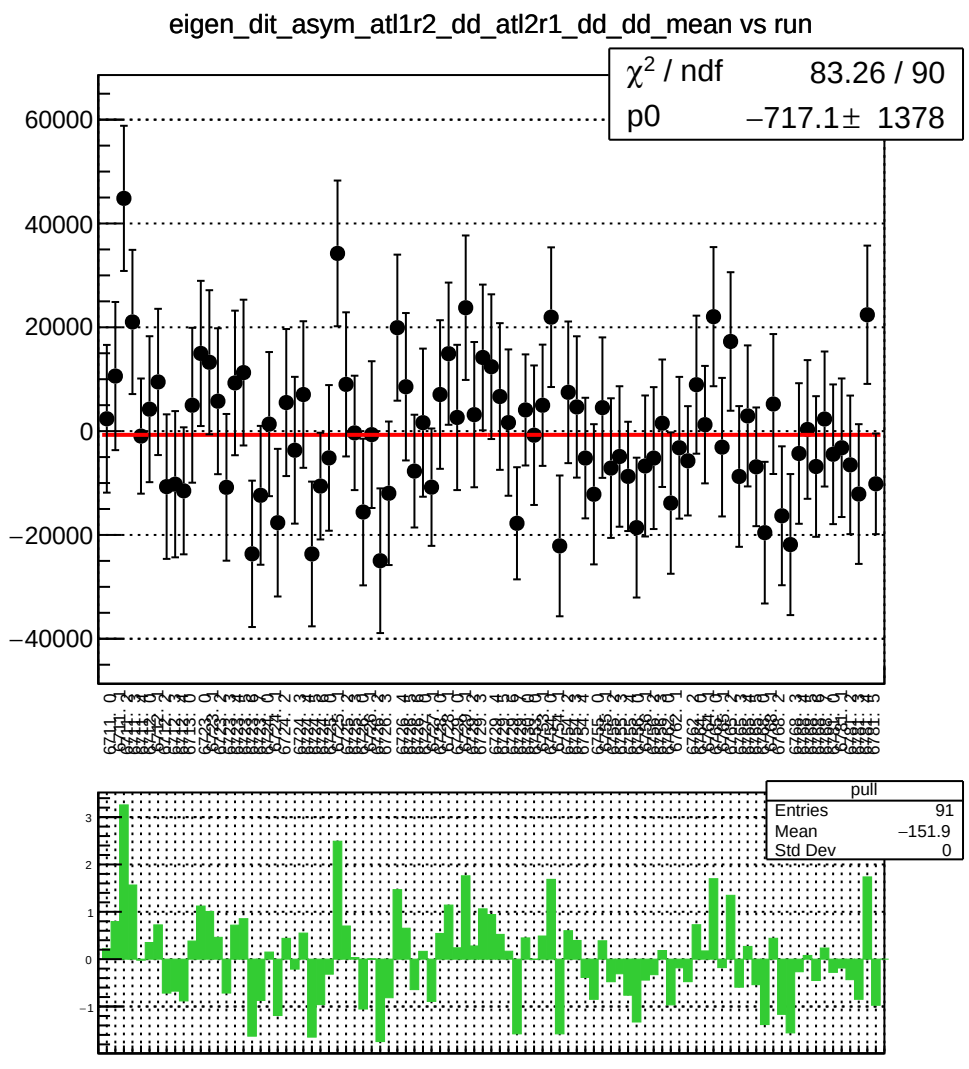

pull1D
Entries 91
Mean 0.02396
Std Dev 0.9562
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

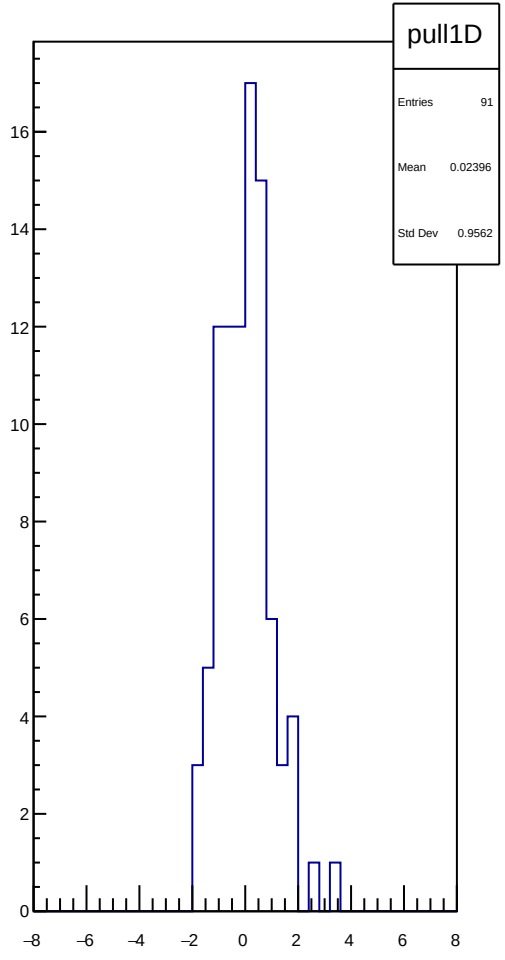

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 857.6 / 90
p0 1309 ± 0.9746
1360
1340
1320
1300
1280
1260


asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 81.5 / 90
p0 726.9 ± 4086
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −66.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 91
Mean 0.03385
Std Dev 0.9458
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 1.176e+04 / 90
p0 3868 ± 2.889
4600
4400
4200
4000
3800
3600
3400
3200
3000


eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 83.26 / 90
p0 −717.1± 1378
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −151.9
Std Dev 0
3
2
1
0
−1


pull1D
Entries 91
Mean 0.02396
Std Dev 0.9562
16
14
12
10
8
6
4
2
0
−8
−6
−4
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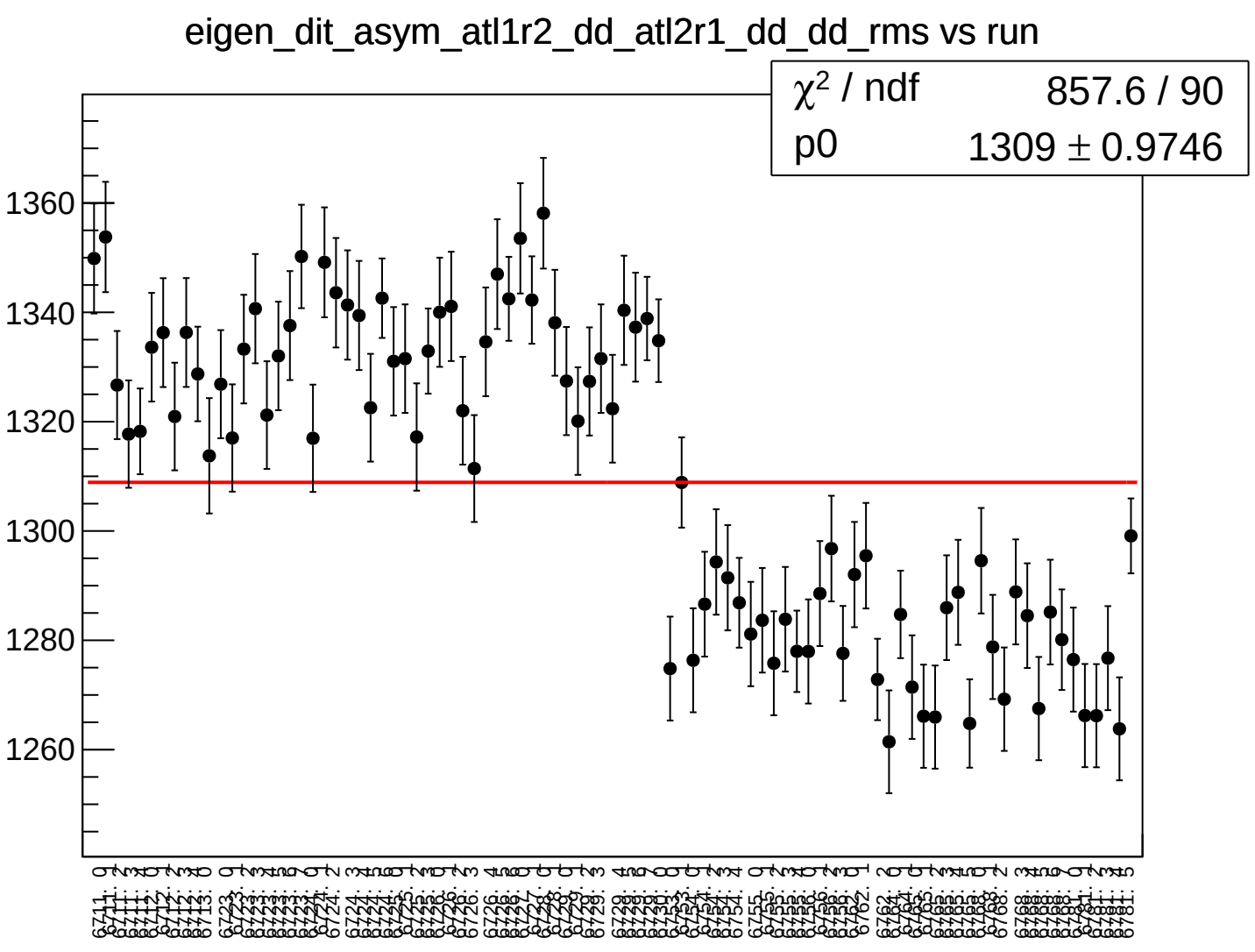
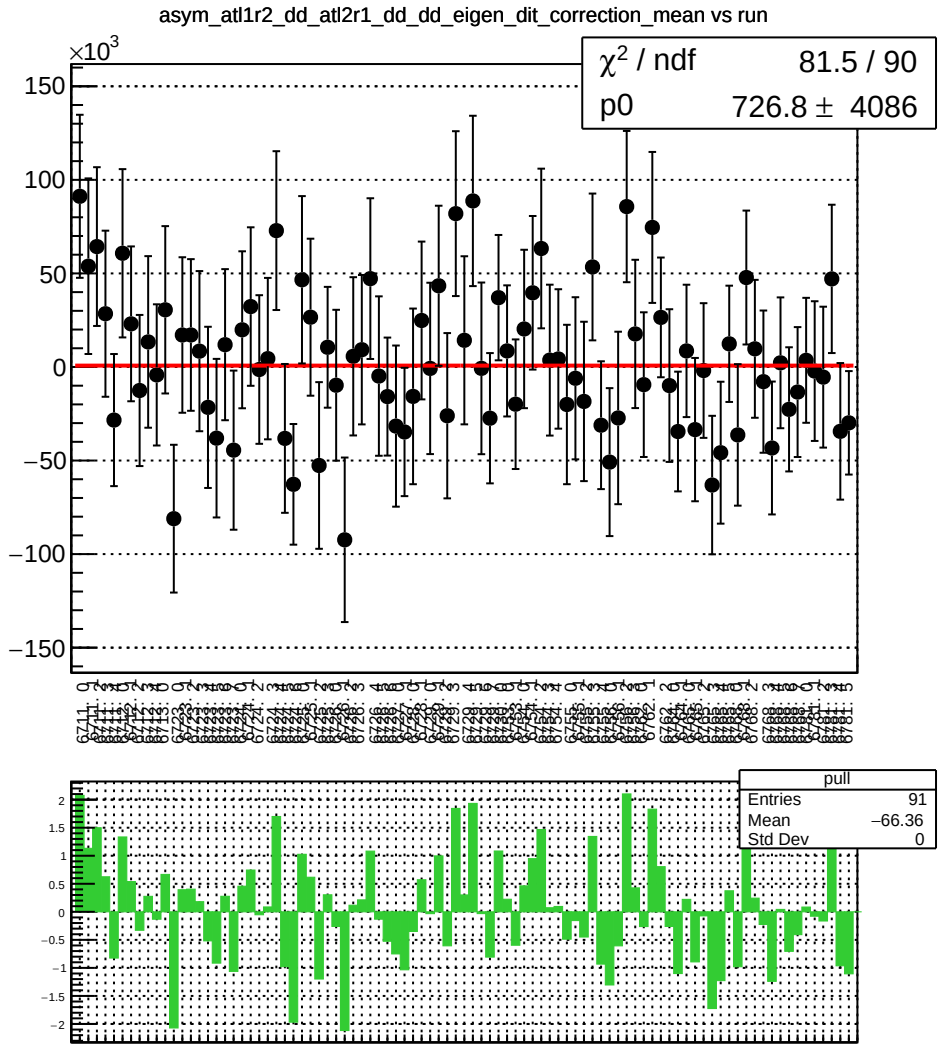
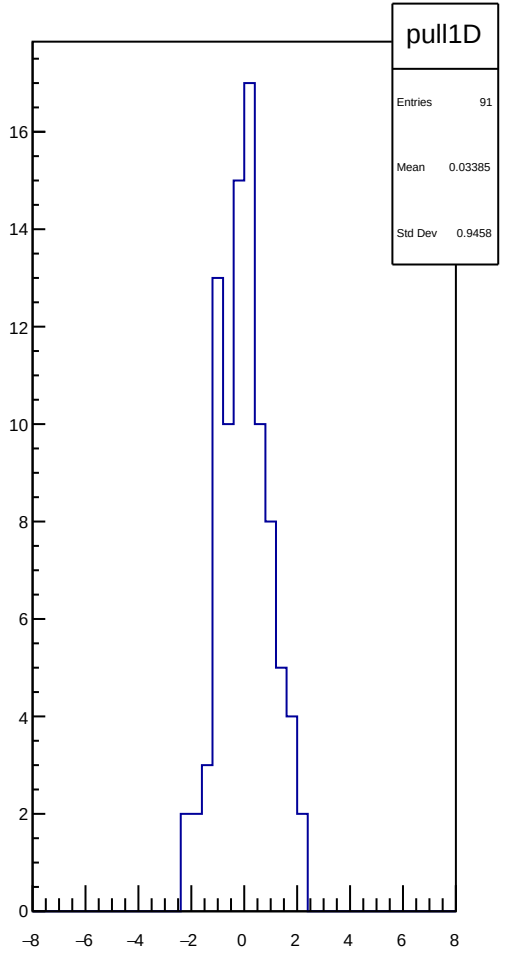
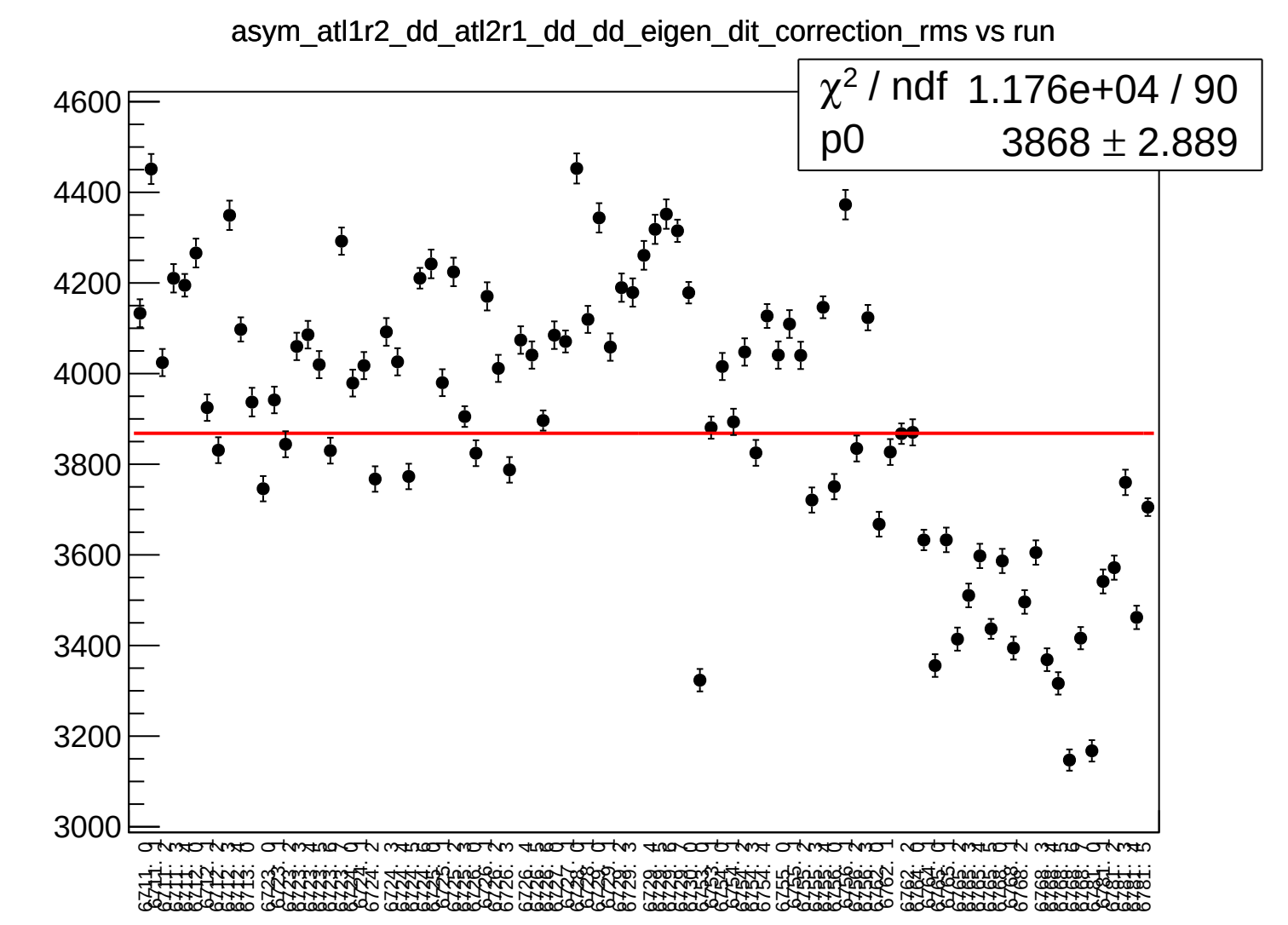
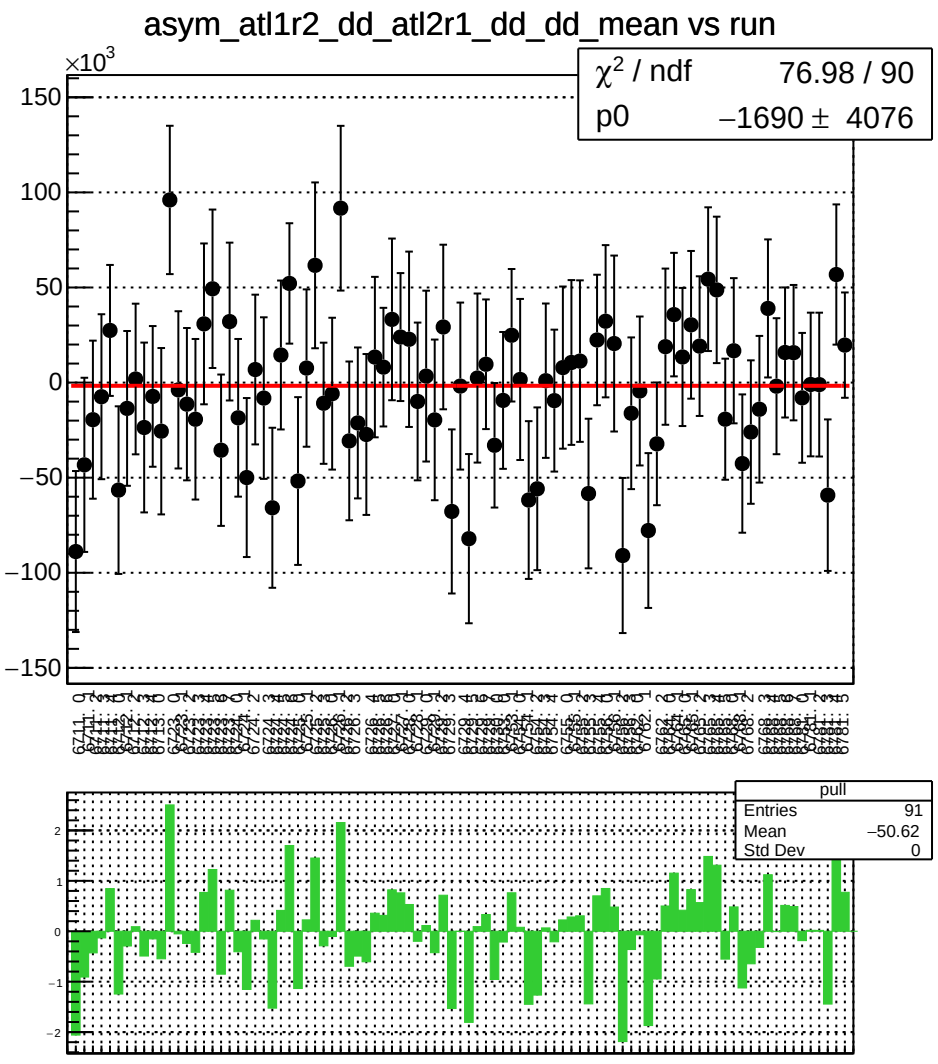
0
2
4
6
8

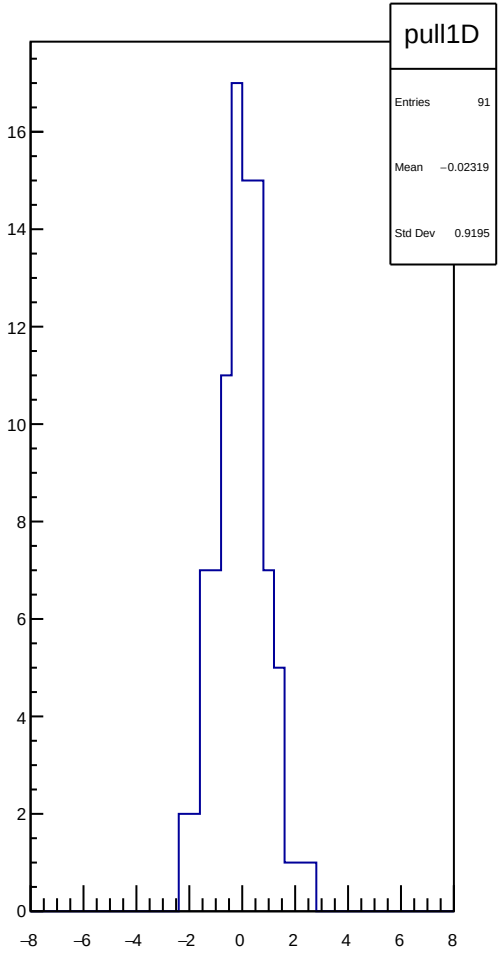

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 857.6 / 90
p0 1309 ± 0.9746
1360
1340
1320
1300
1280
1260

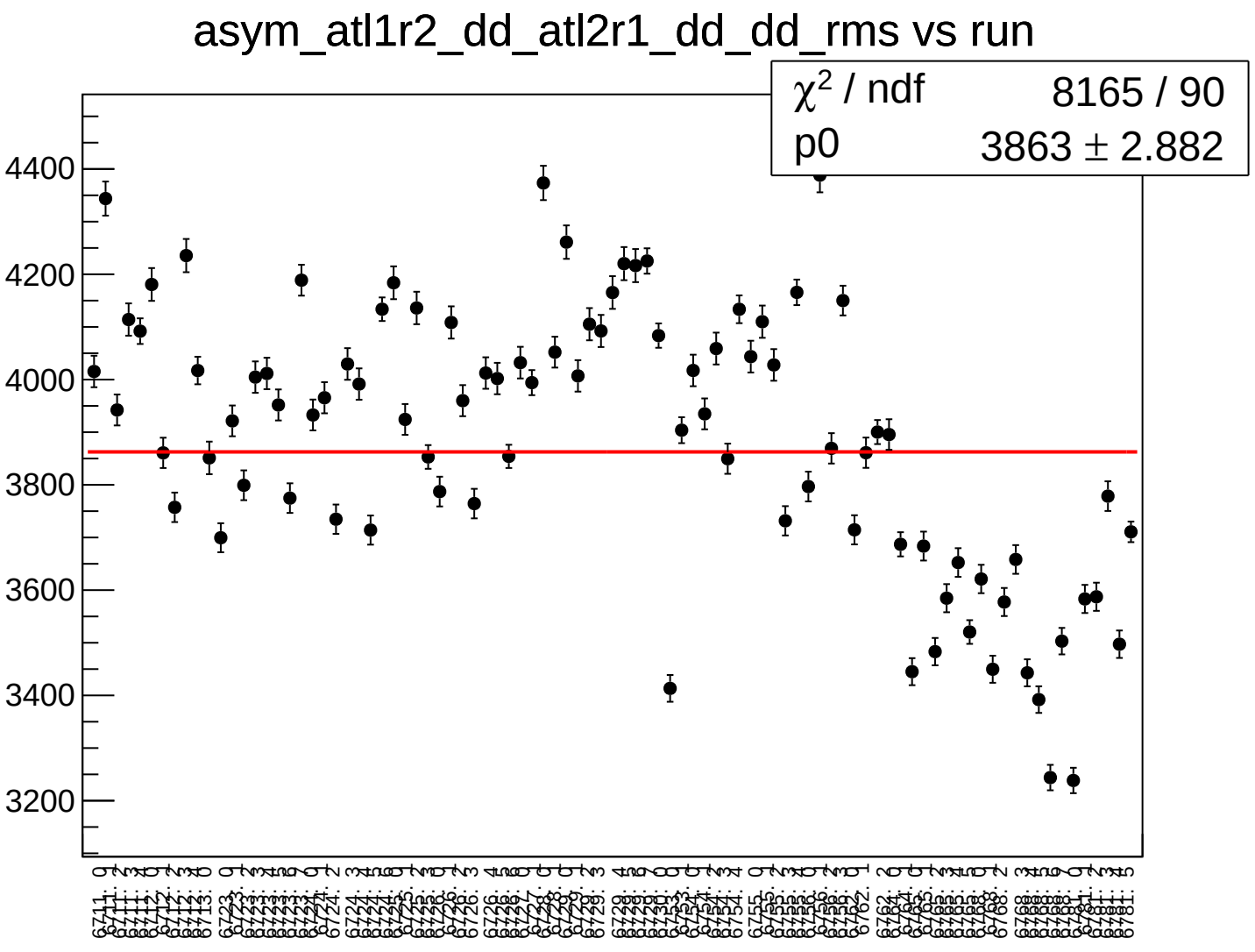

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.5 / 90
p0 726.8 ± 4086
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −66.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

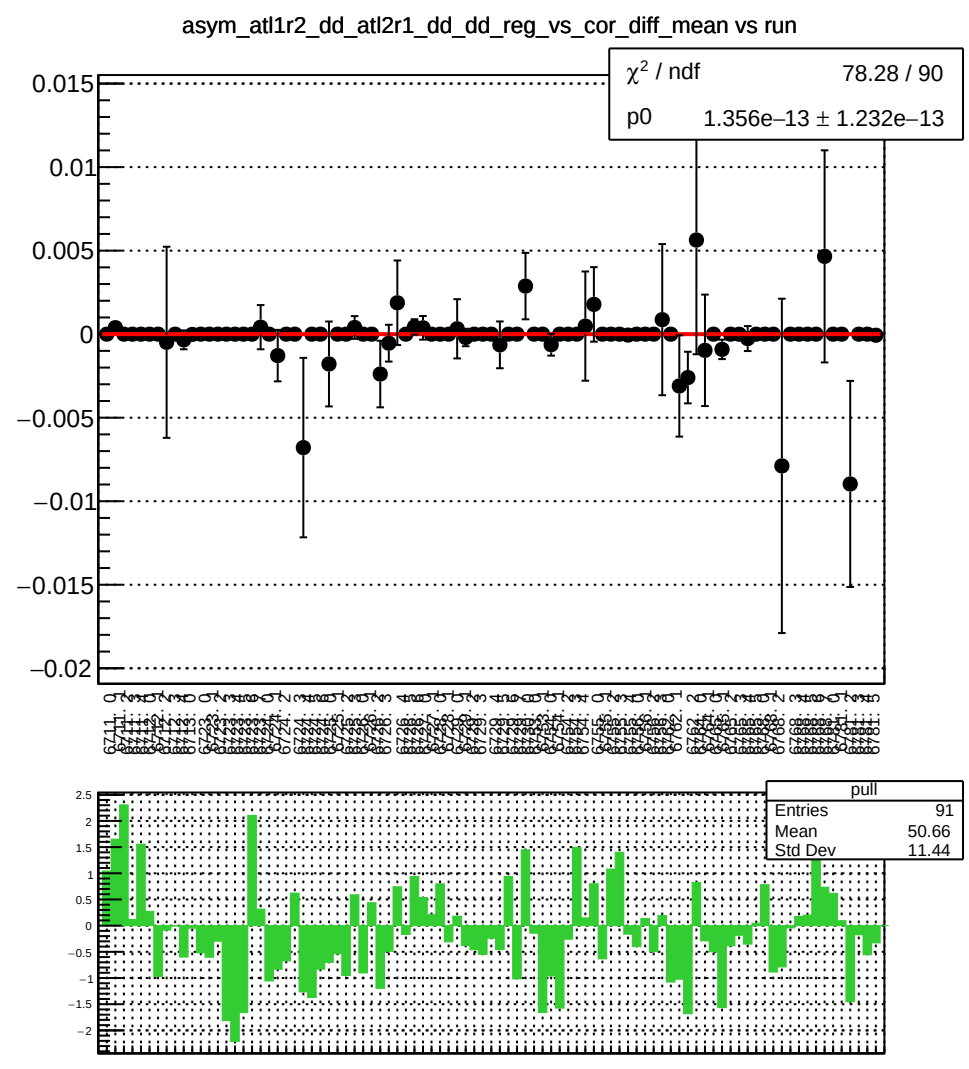

pull1D
Entries 91
Mean 0.03385
Std Dev 0.9458
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

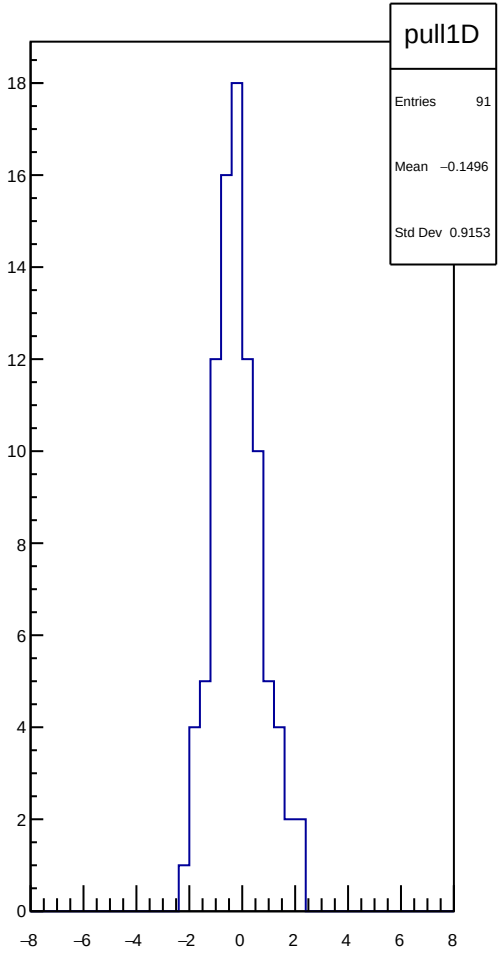

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.176e+04 / 90
p0 3868 ± 2.889
4600
4400
4200
4000
3800
3600
3400
3200
3000

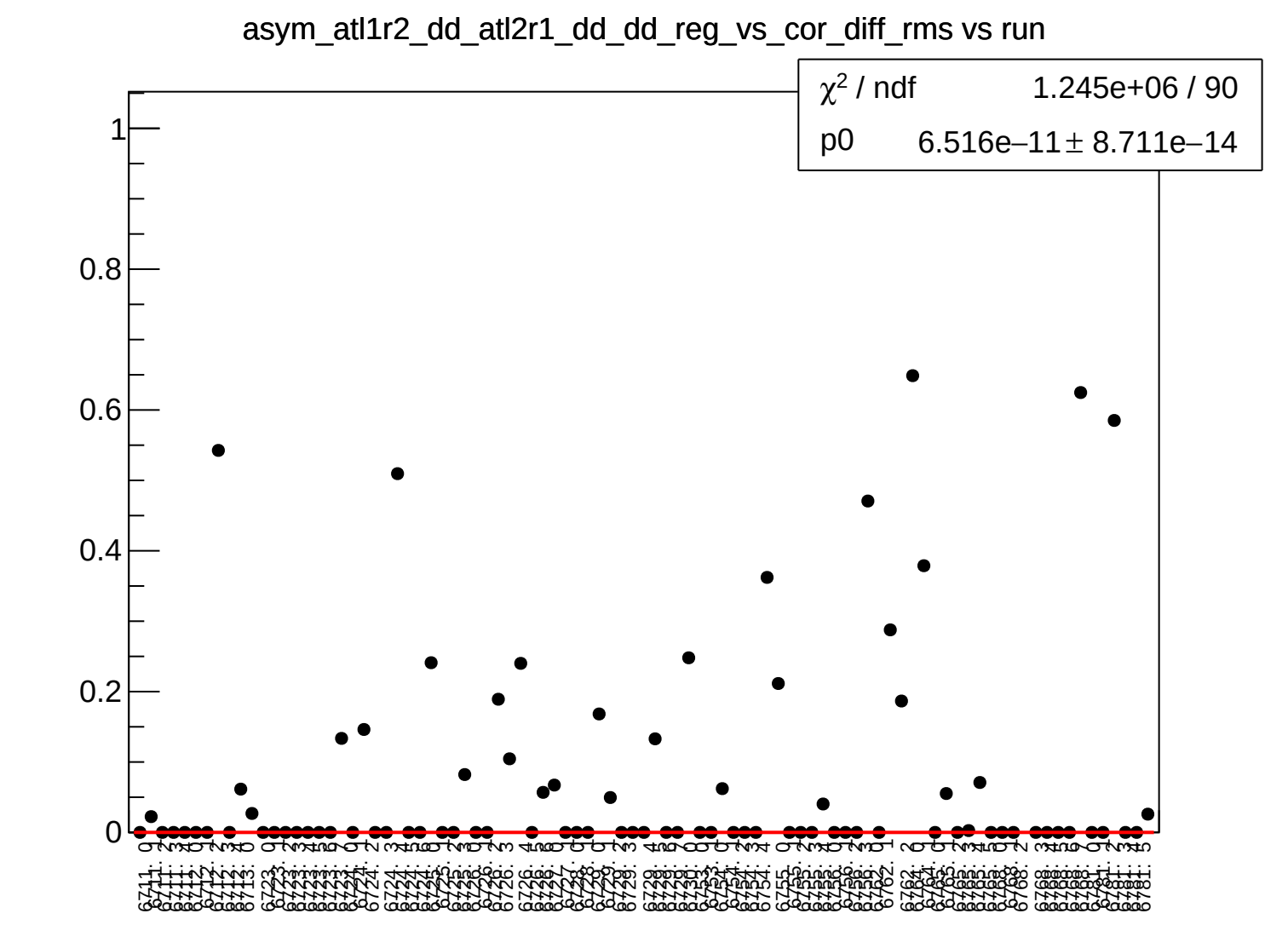

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 76.98 / 90
p0 −1690 ± 4076
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −50.62
Std Dev 0
2
1
0
−1
−2

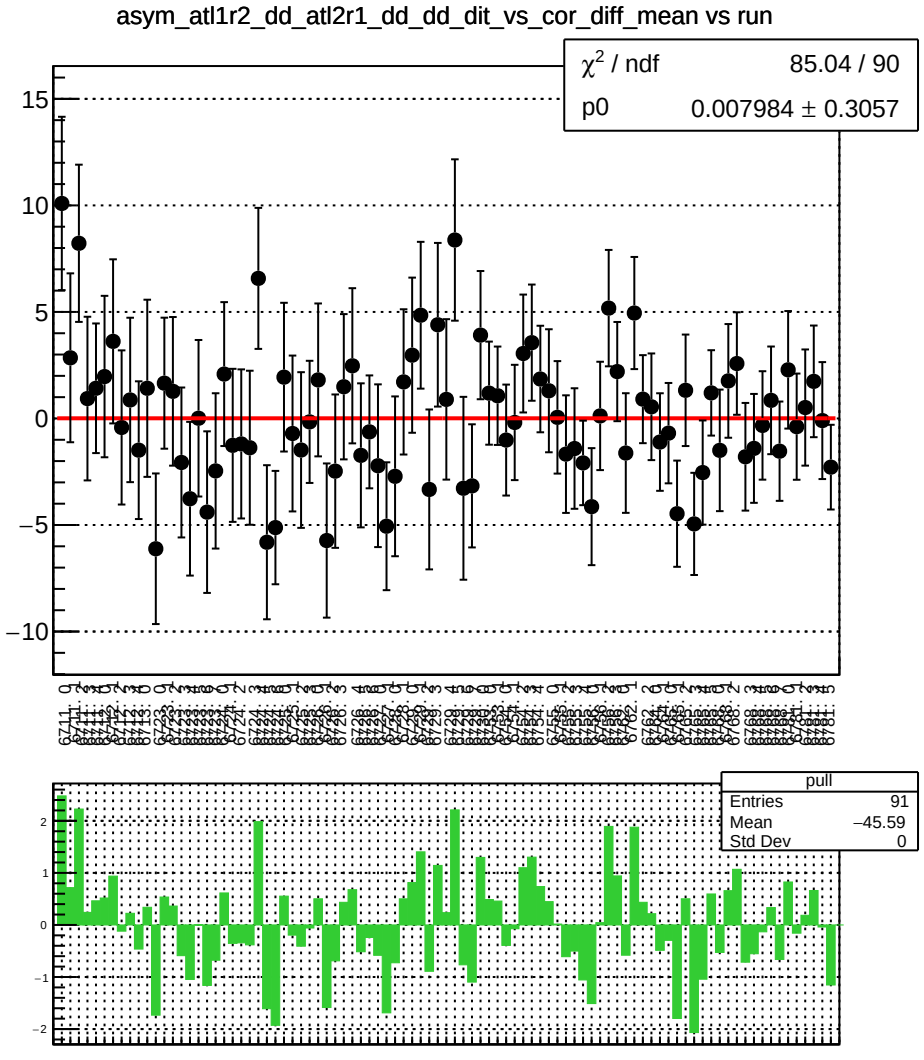

pull1D
Entries 91
Mean −0.02319
Std Dev 0.9195
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

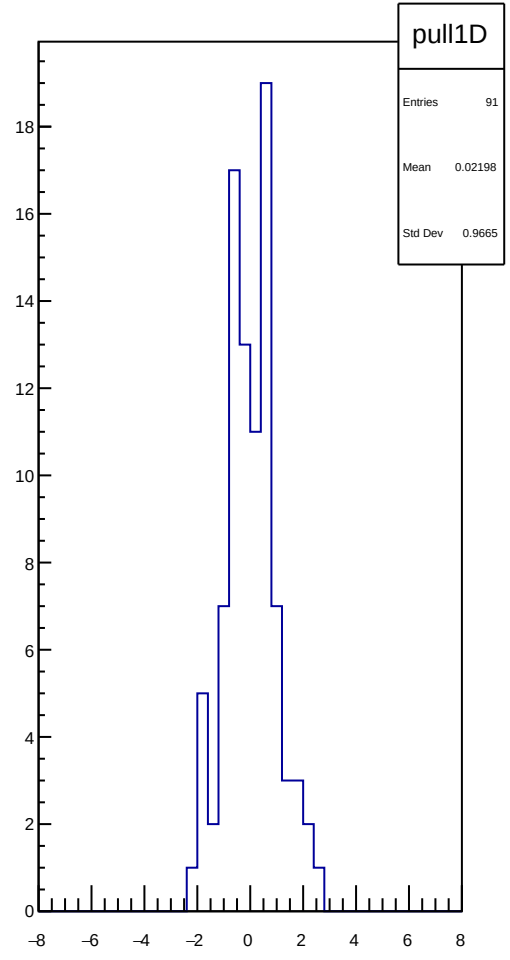

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 8165 / 90
p0 3863 ± 2.882
4400
4200
4000
3800
3600
3400
3200

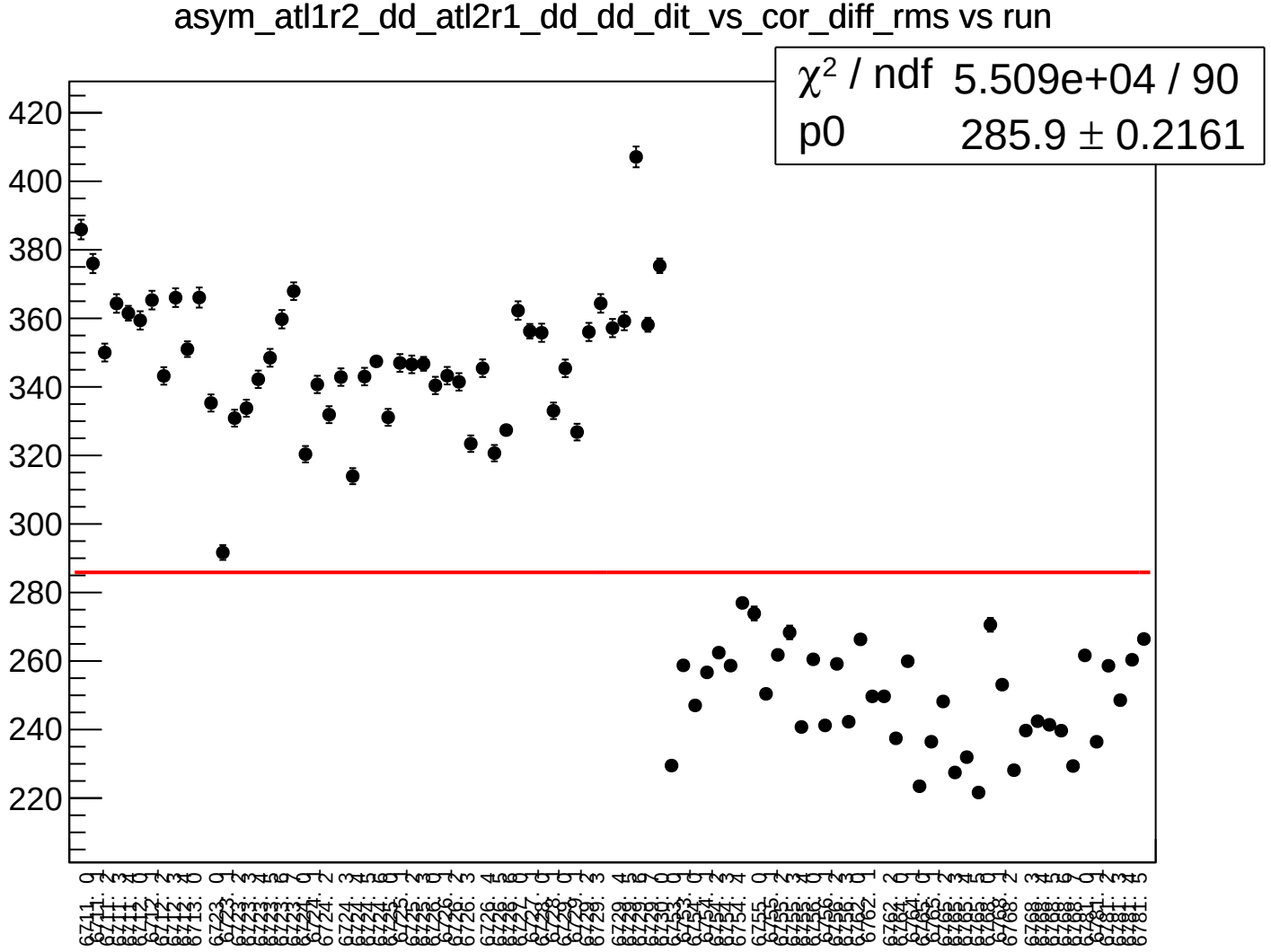

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.28 / 90
p0 1.356e−13 ± 1.232e−13
pull
Entries 91
Mean 50.66
Std Dev 11.44

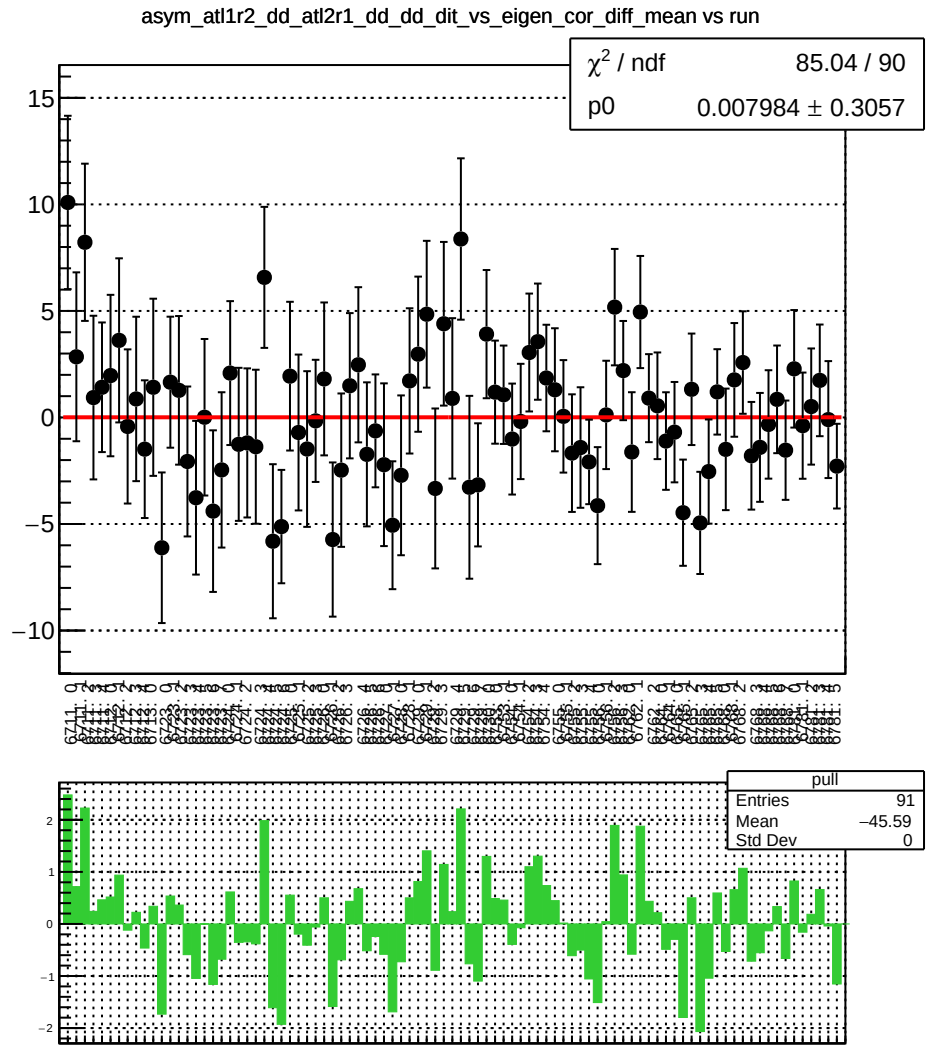

pull1D
Entries 91
Mean −0.1496
Std Dev 0.9153

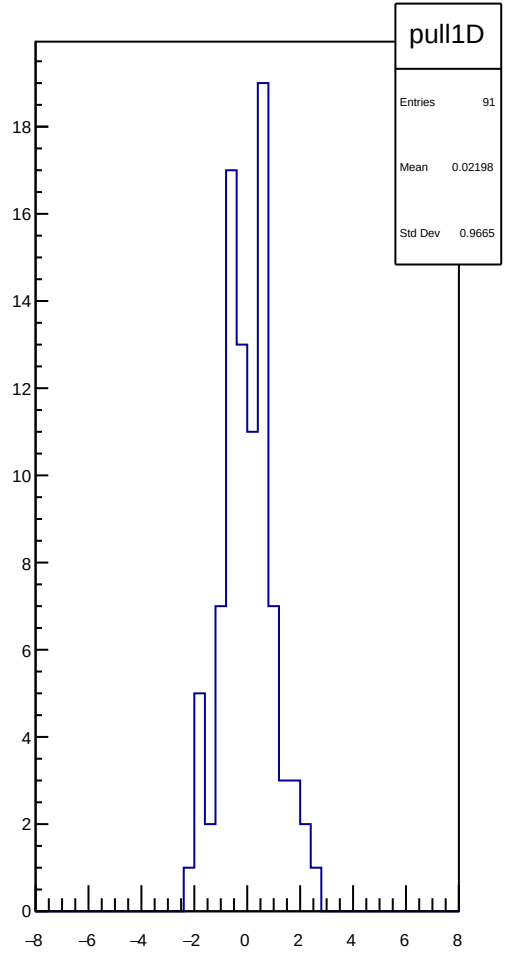

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.245e+06 / 90
p0 6.516e−11 ± 8.711e−14
1
0.8
0.6
0.4
0.2
0

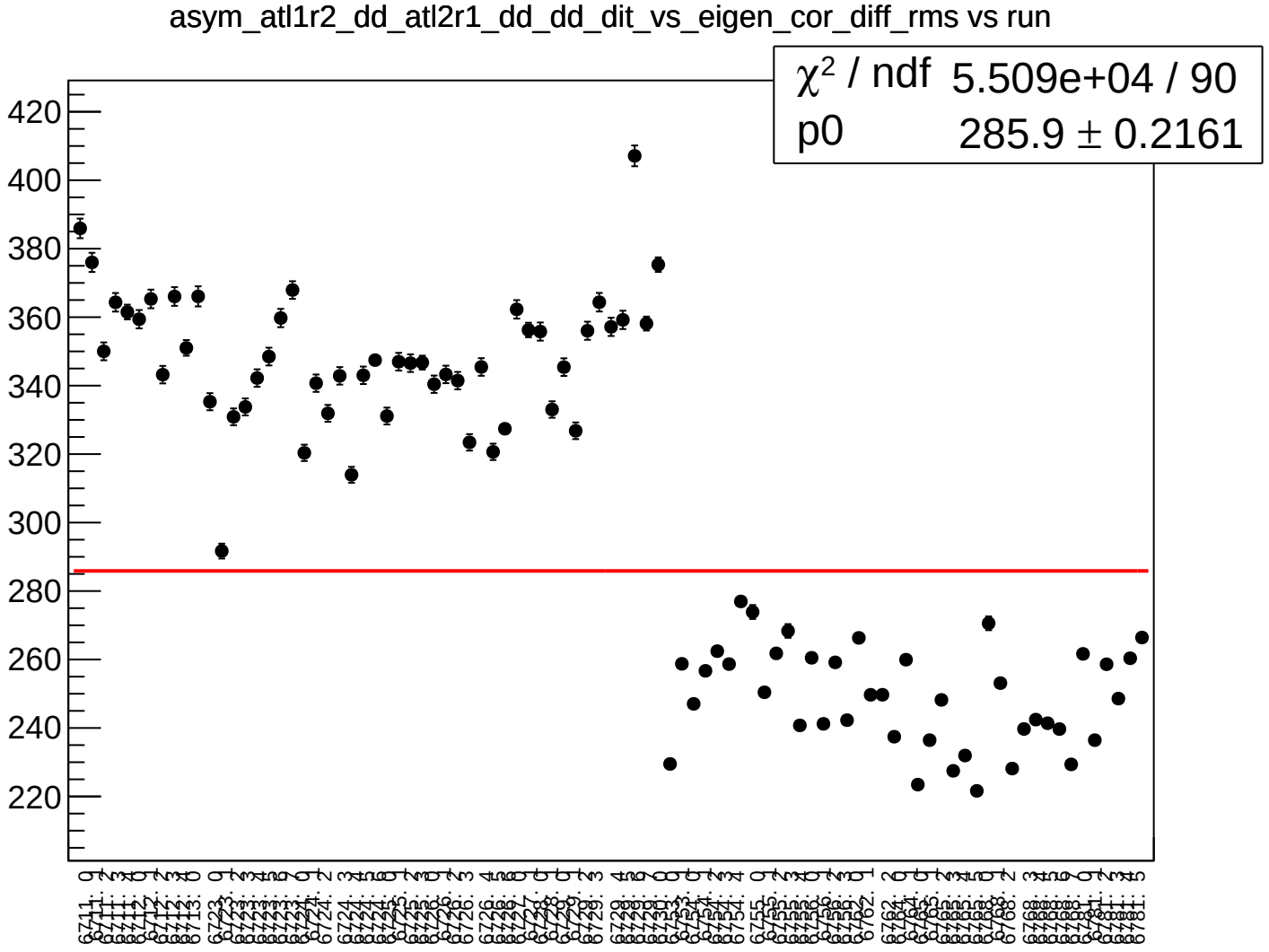

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.04 / 90
p0 0.007984 ± 0.3057
pull
Entries 91
Mean −45.59
Std Dev 0

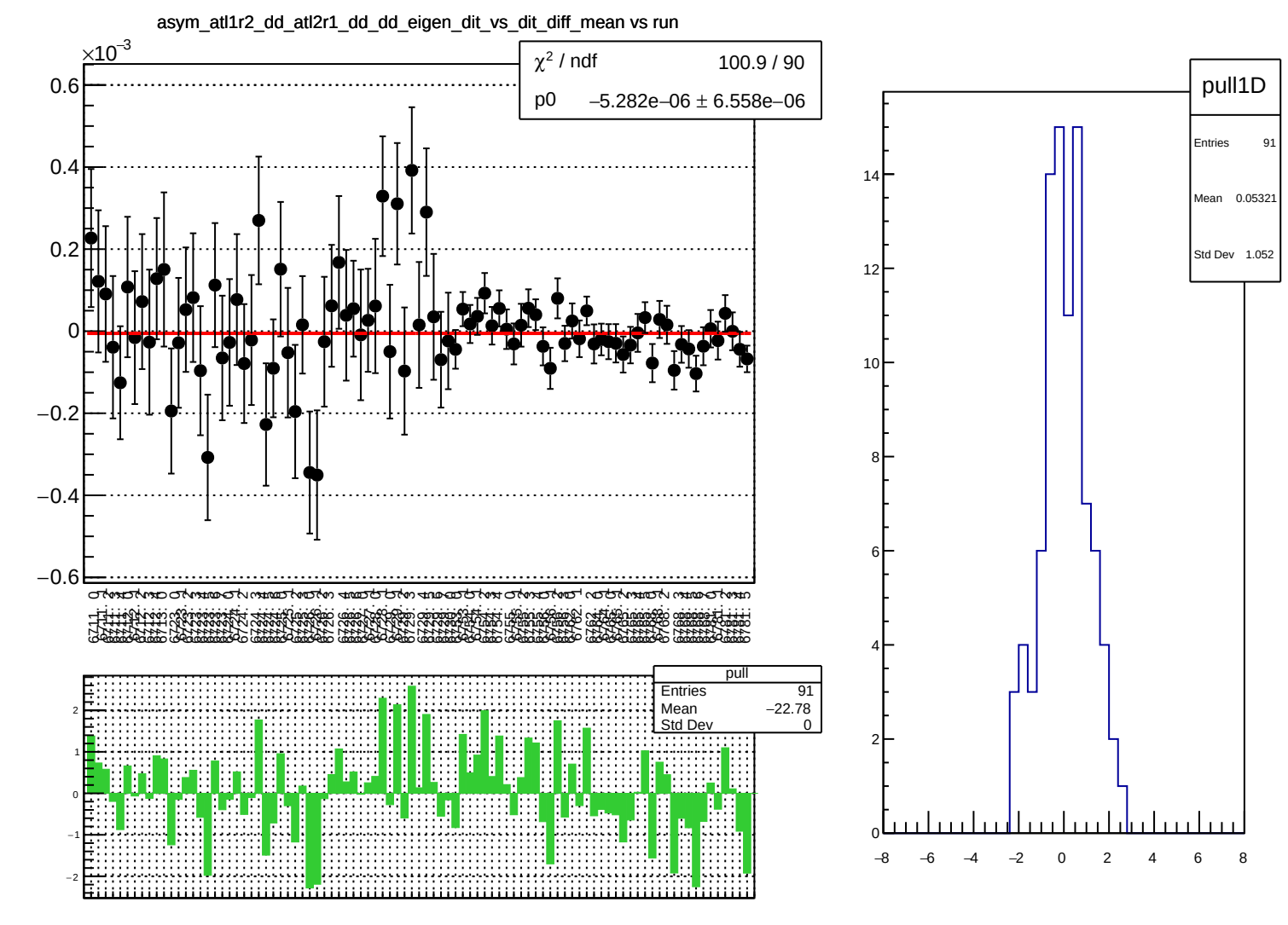

pull1D
Entries 91
Mean 0.02198
Std Dev 0.9665

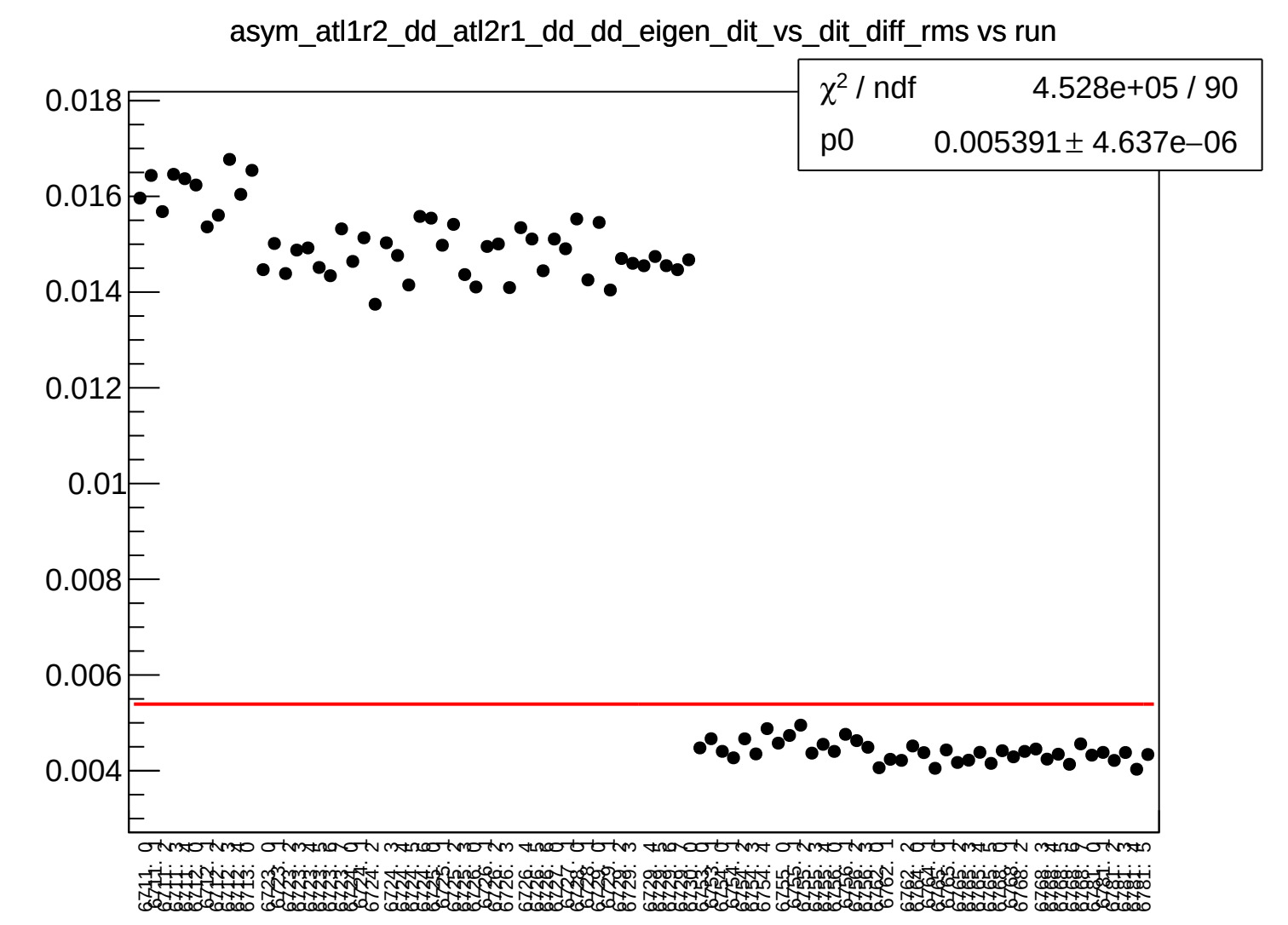

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.509e+04 / 90
p0 285.9 ± 0.2161
420
400
380
360
340
320
300
280
260
240
220

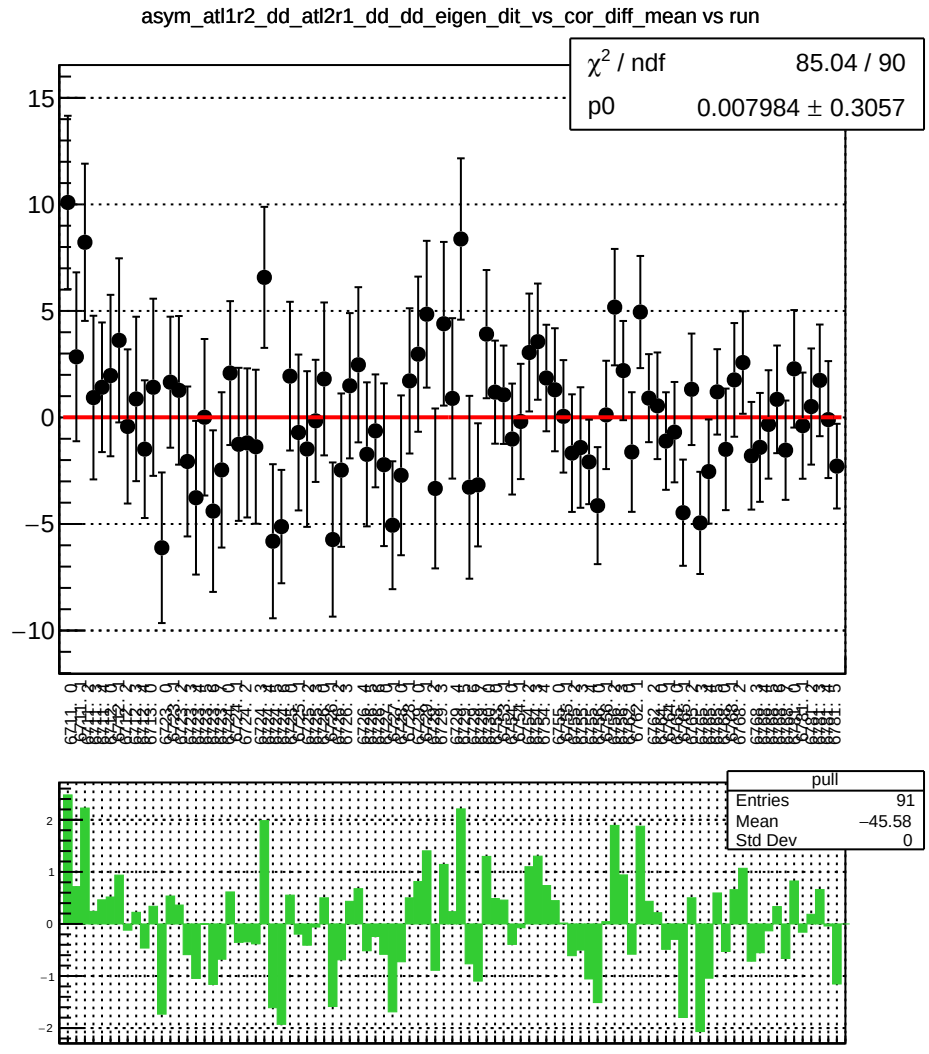

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.04 / 90
p0 0.007984 ± 0.3057
15
10
5
0
−5
−10
pull
Entries 91
Mean −45.59
Std Dev 0
2
1
0
−1
−2

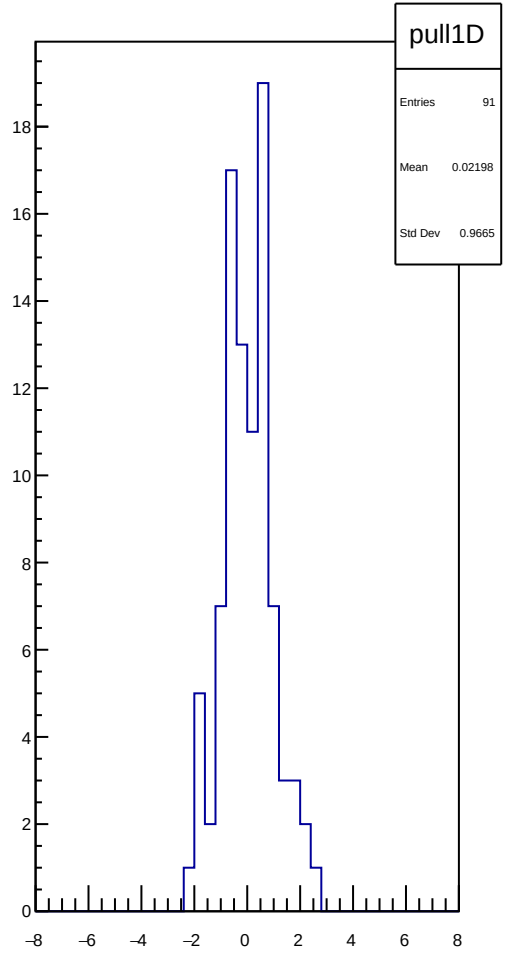

pull1D
Entries 91
Mean 0.02198
Std Dev 0.9665
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

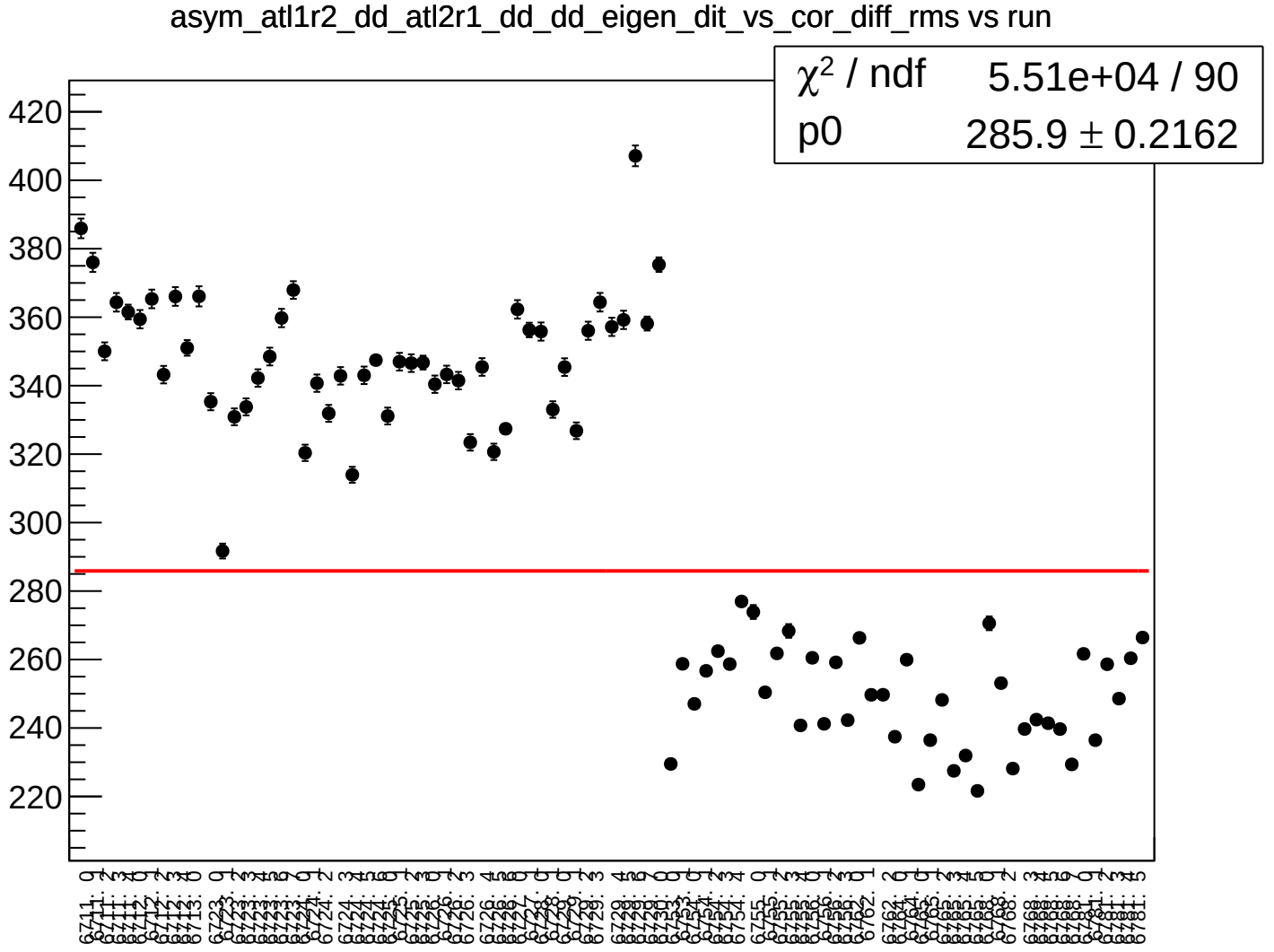

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.509e+04 / 90
p0 285.9 ± 0.2161
420
400
380
360
340
320
300
280
260
240
220

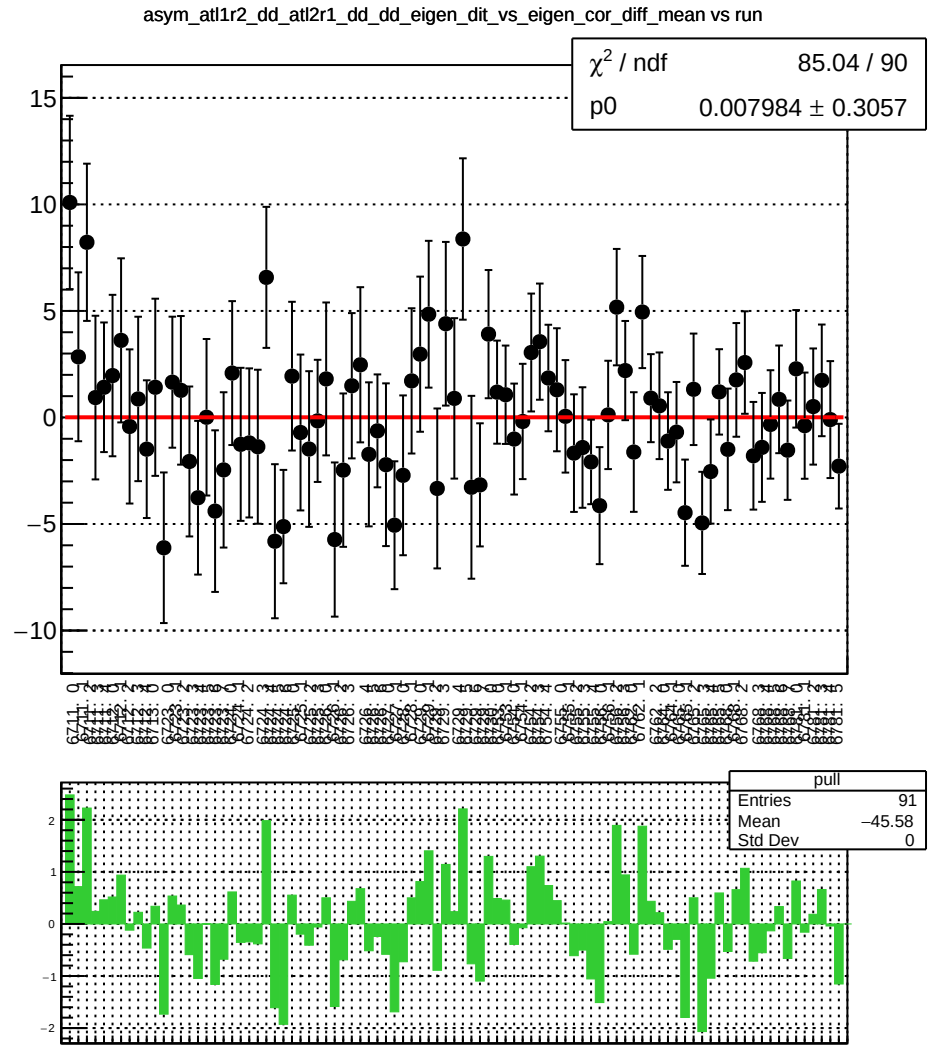

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 100.9 / 90
p0 −5.282e−06 ± 6.558e−06
pull
Entries 91
Mean −22.78
Std Dev 0
pull1D
Entries 91
Mean 0.05321
Std Dev 1.052

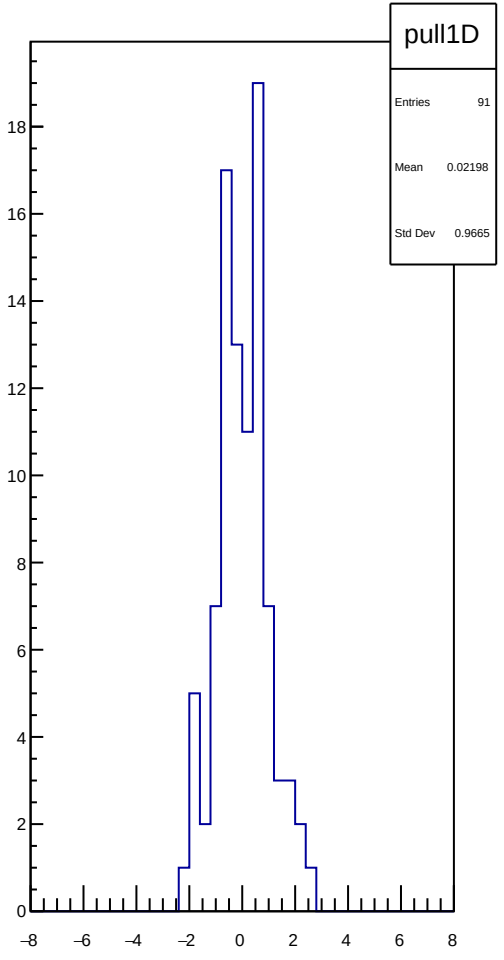

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.528e+05 / 90
p0 0.005391 ± 4.637e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

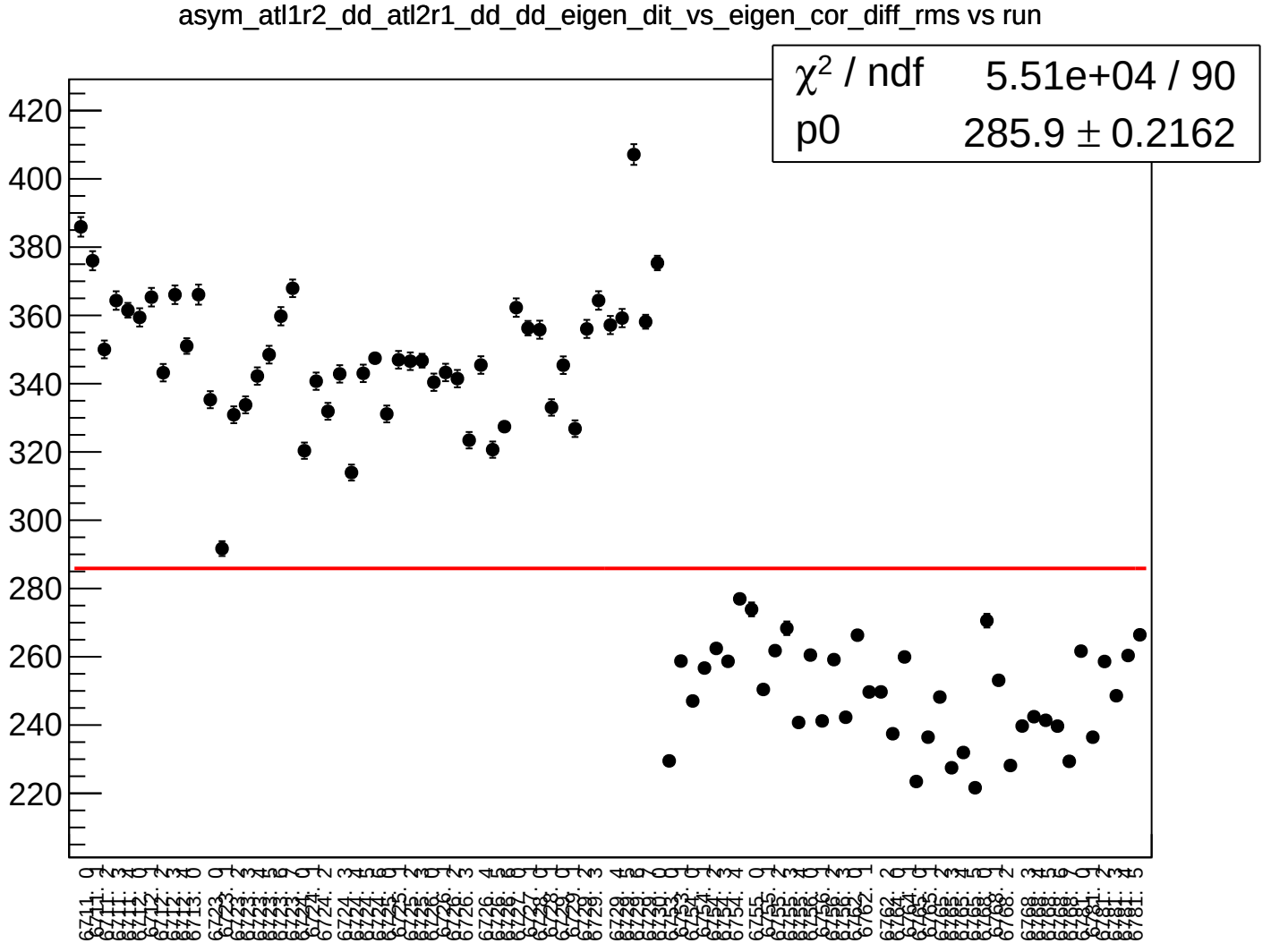

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.04 / 90
p0 0.007984 ± 0.3057
pull
Entries 91
Mean −45.58
Std Dev 0

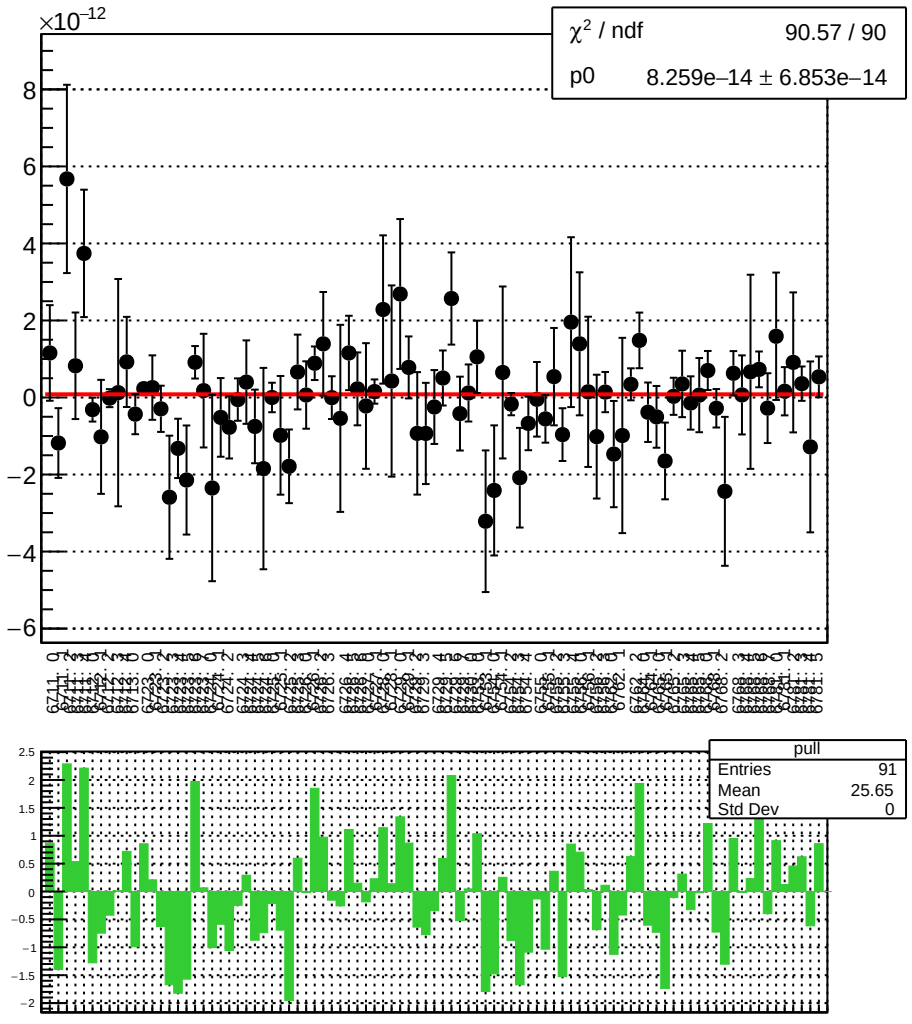

pull1D
Entries 91
Mean 0.02198
Std Dev 0.9665

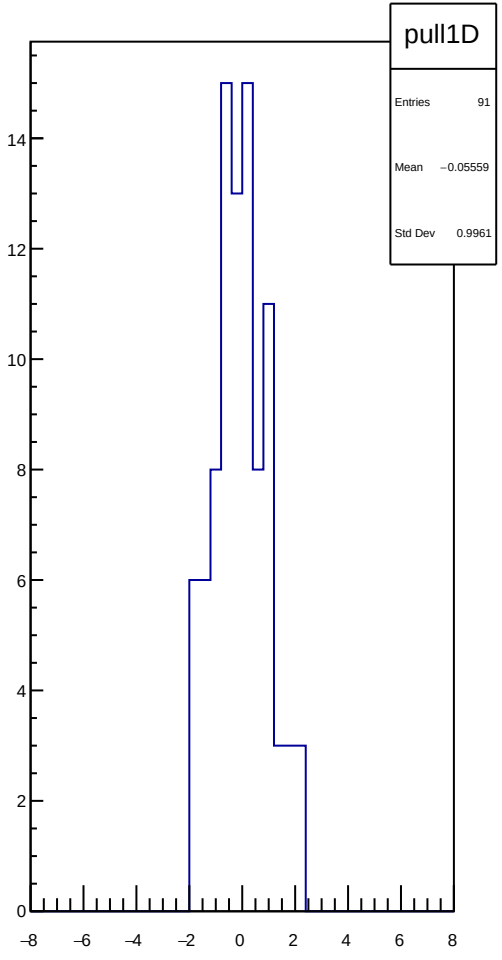

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.51e+04 / 90
p0 285.9 ± 0.2162
420
400
380
360
340
320
300
280
260
240
220

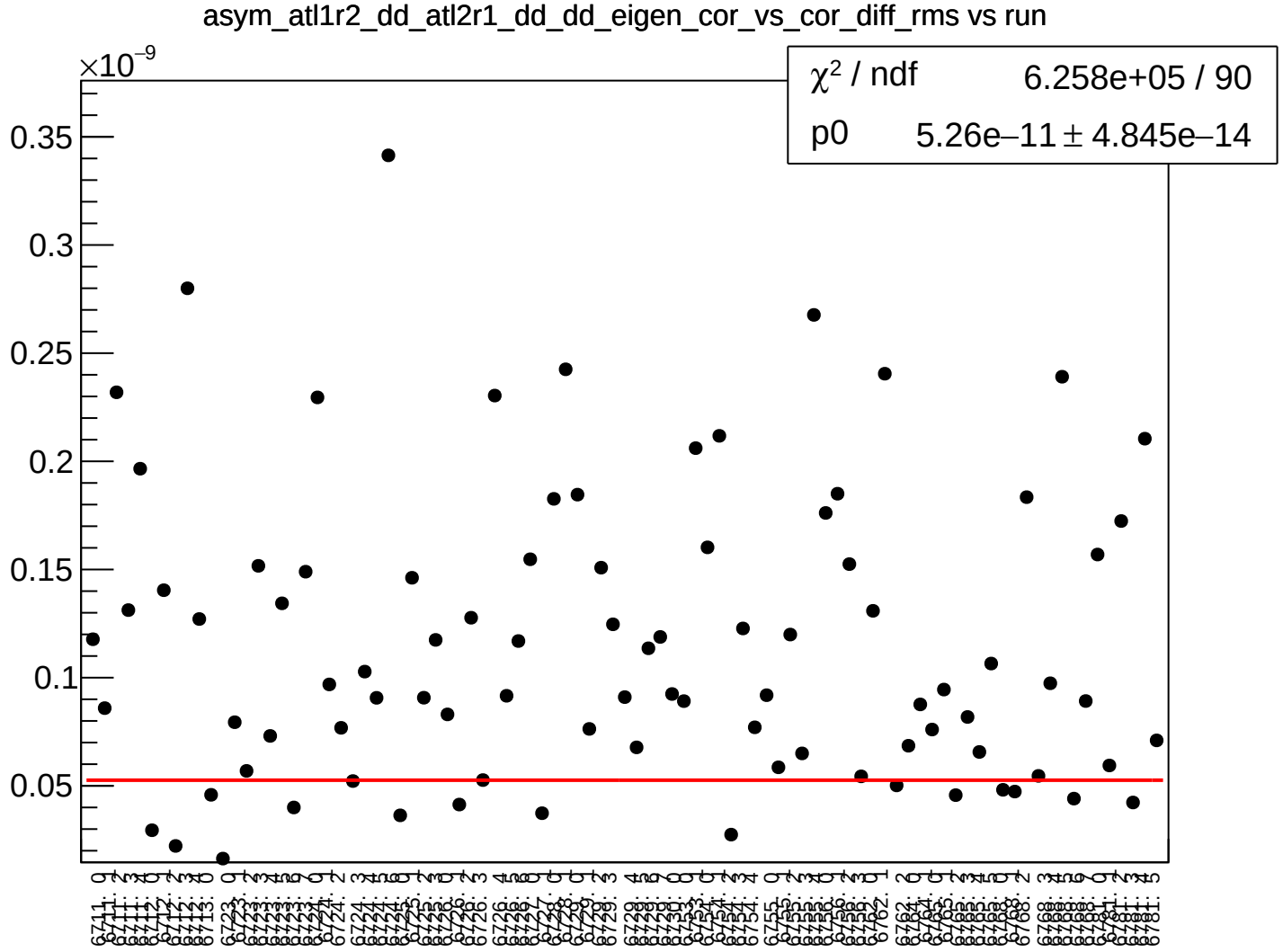

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.04 / 90
p0 0.007984 ± 0.3057
pull
Entries 91
Mean −45.58
Std Dev 0

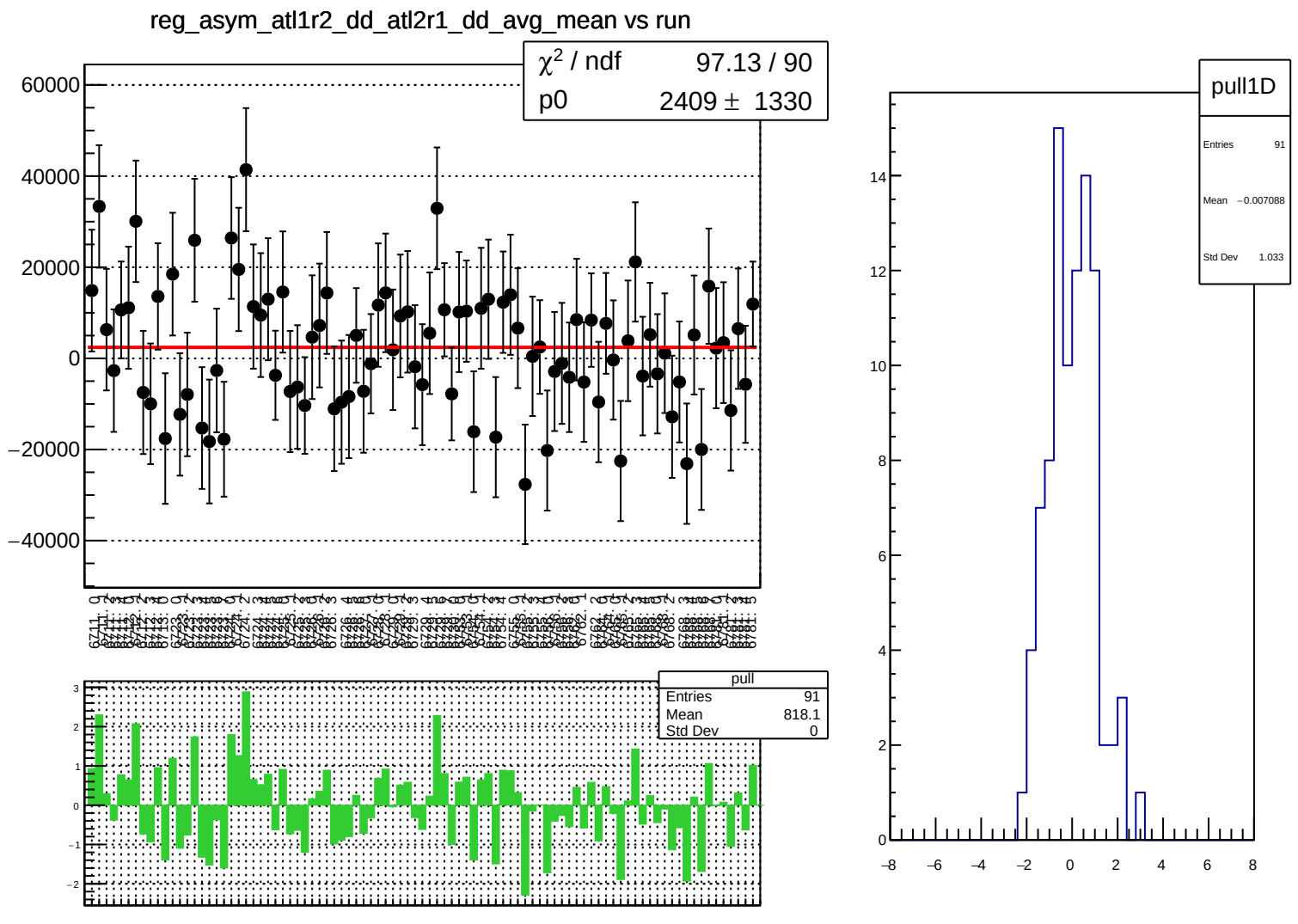

pull1D
Entries 91
Mean 0.02198
Std Dev 0.9665

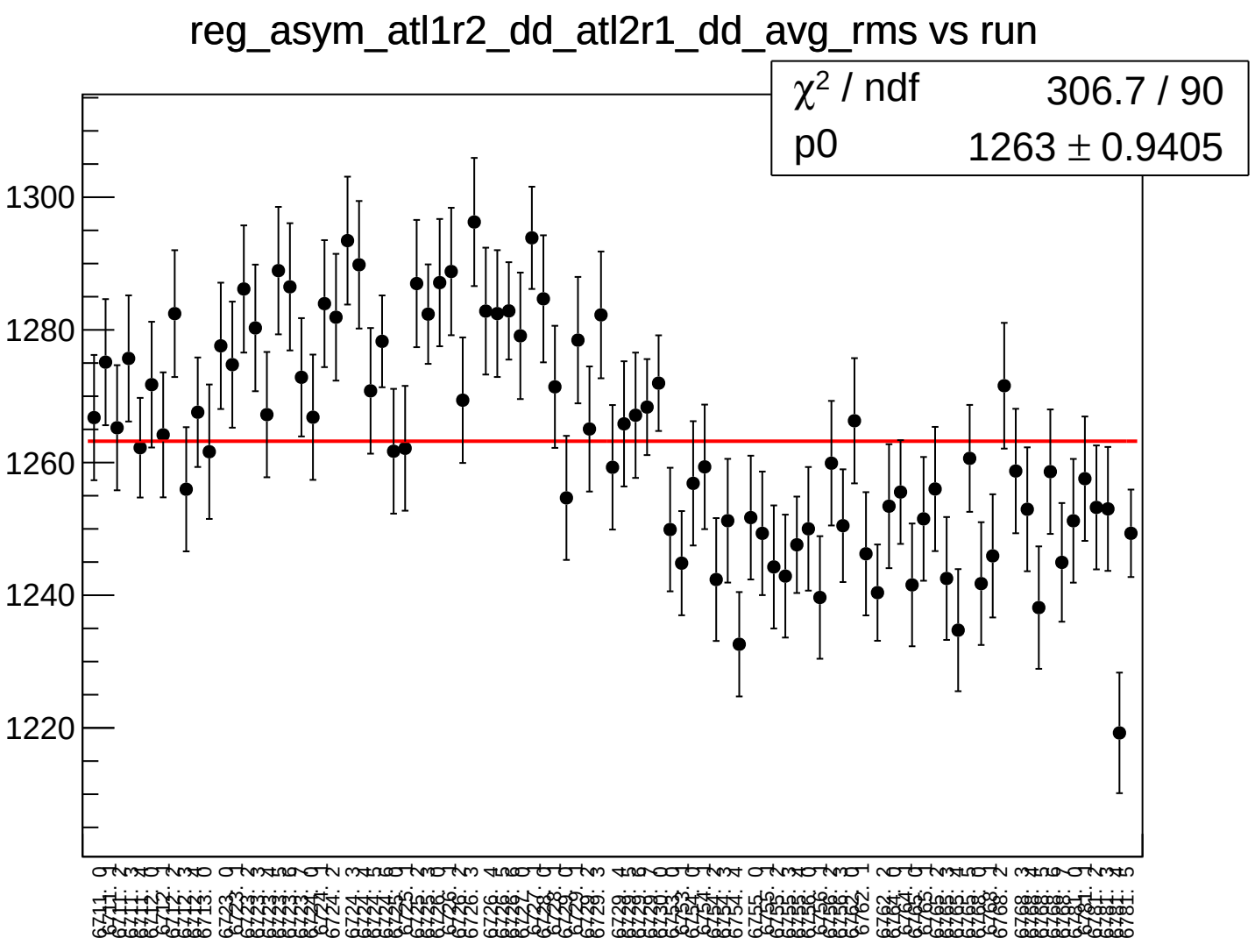

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.51e+04 / 90
p0 285.9 ± 0.2162
420
400
380
360
340
320
300
280
260
240
220

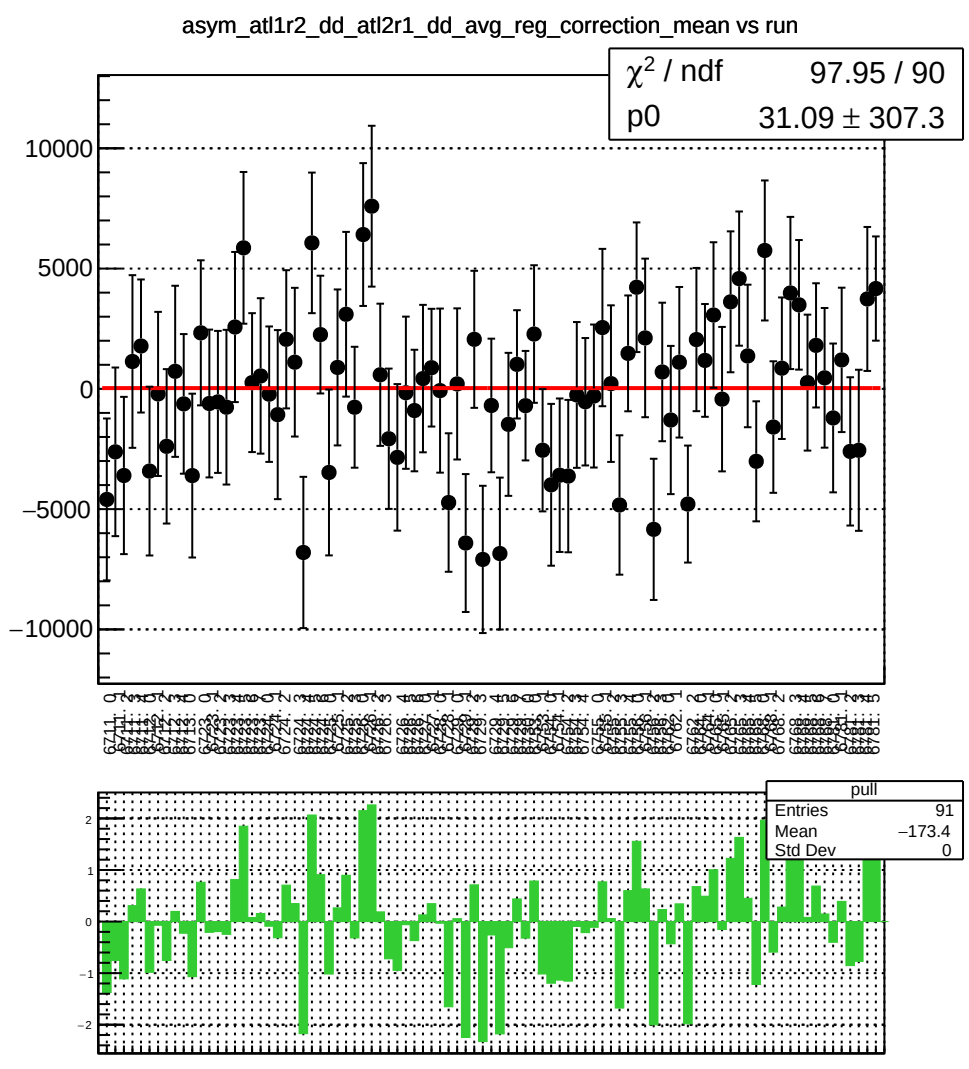

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.57 / 90
p0 8.259e−14 ± 6.853e−14
pull
Entries 91
Mean 25.65
Std Dev 0

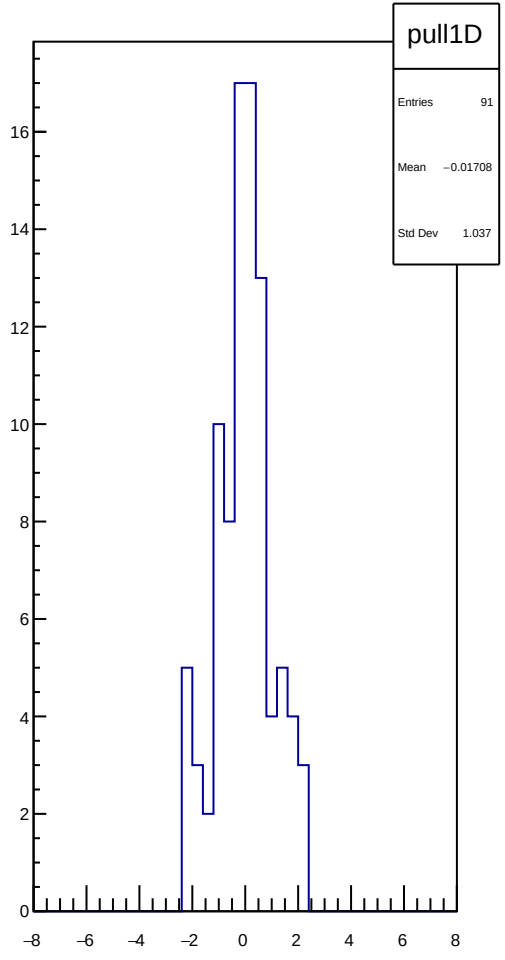

pull1D
Entries 91
Mean −0.05559
Std Dev 0.9961

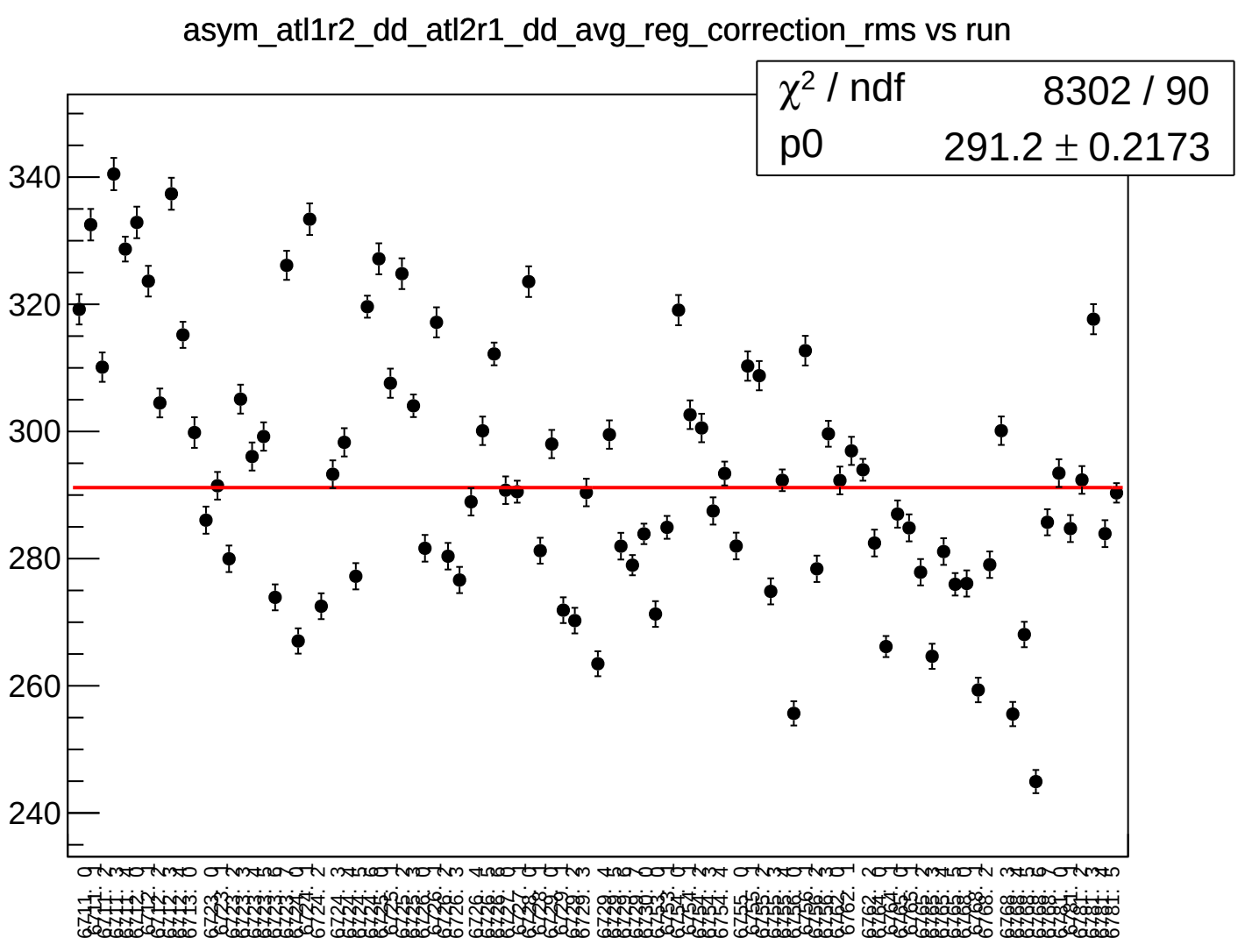

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.258e+05 / 90
p0 5.26e−11 ± 4.845e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

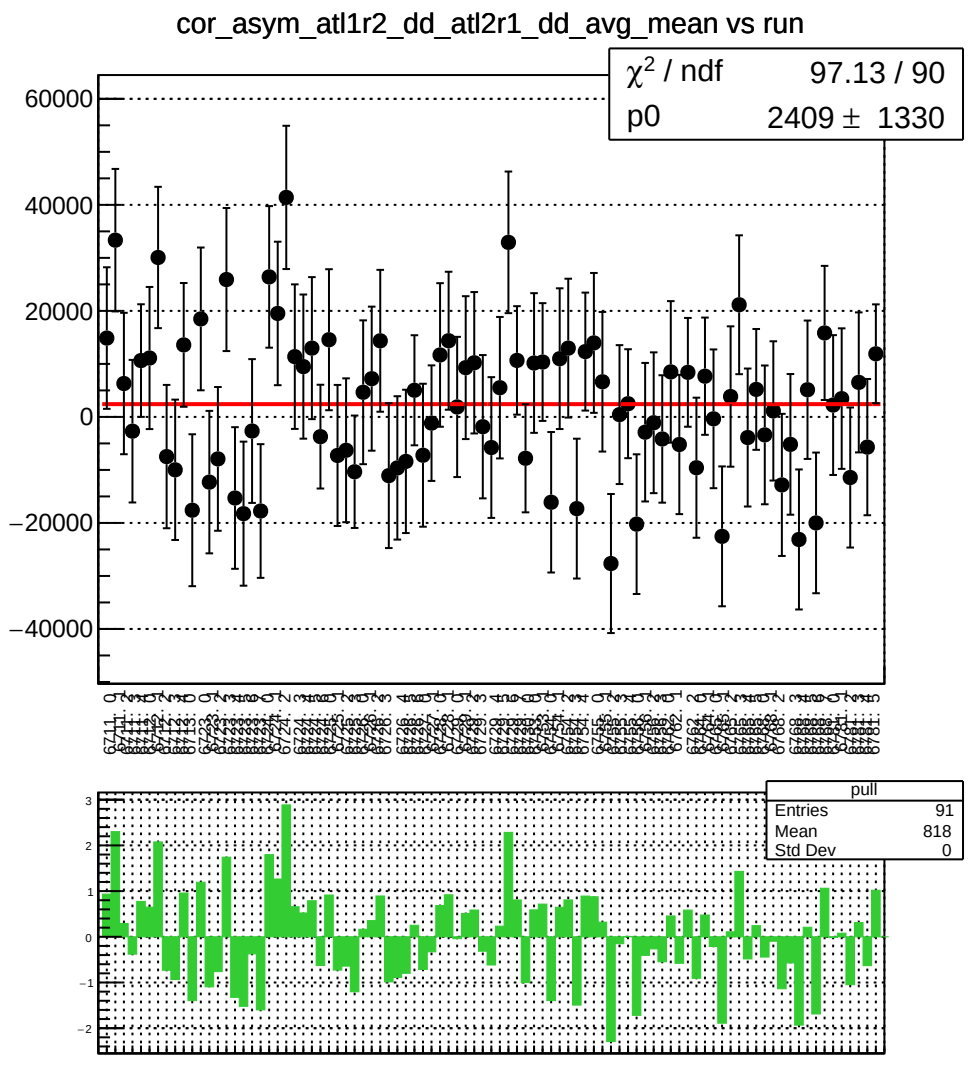

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 97.13 / 90
p0 2409 ± 1330
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 818.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.007088
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

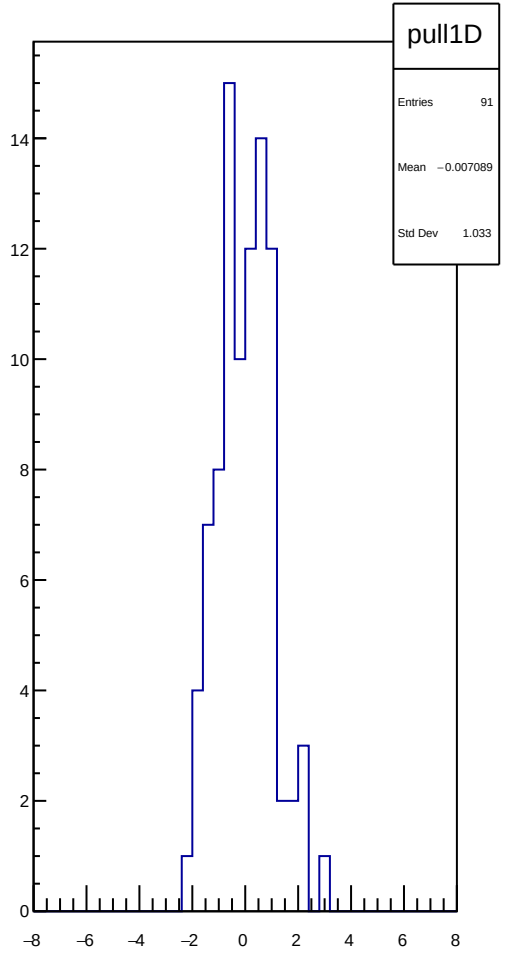

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 306.7 / 90
p0 1263 ± 0.9405
1300
1280
1260
1240
1220

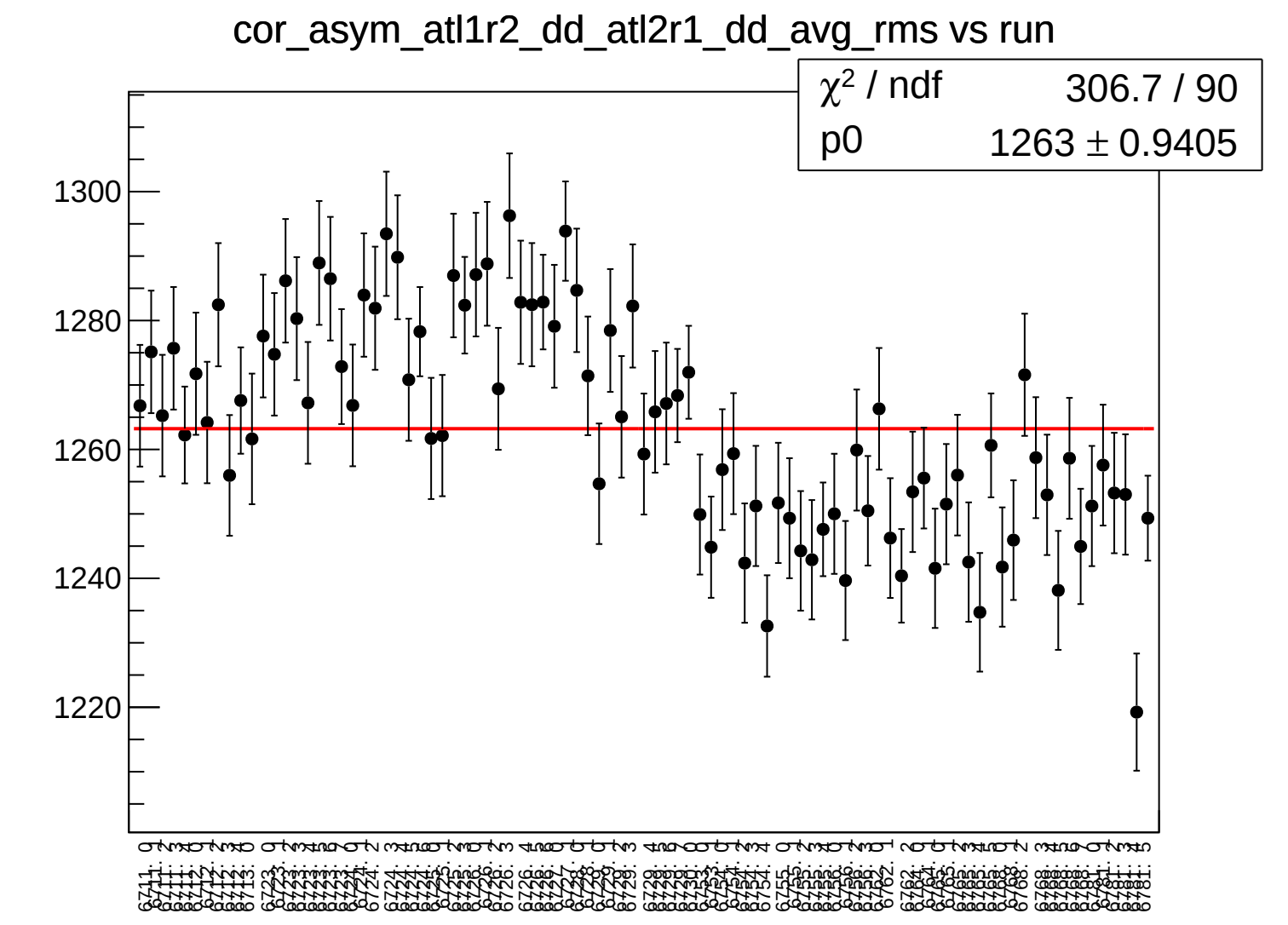

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 97.95 / 90
p0 31.09 ± 307.3
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −173.4
Std Dev 0
2
1
0
−1
−2

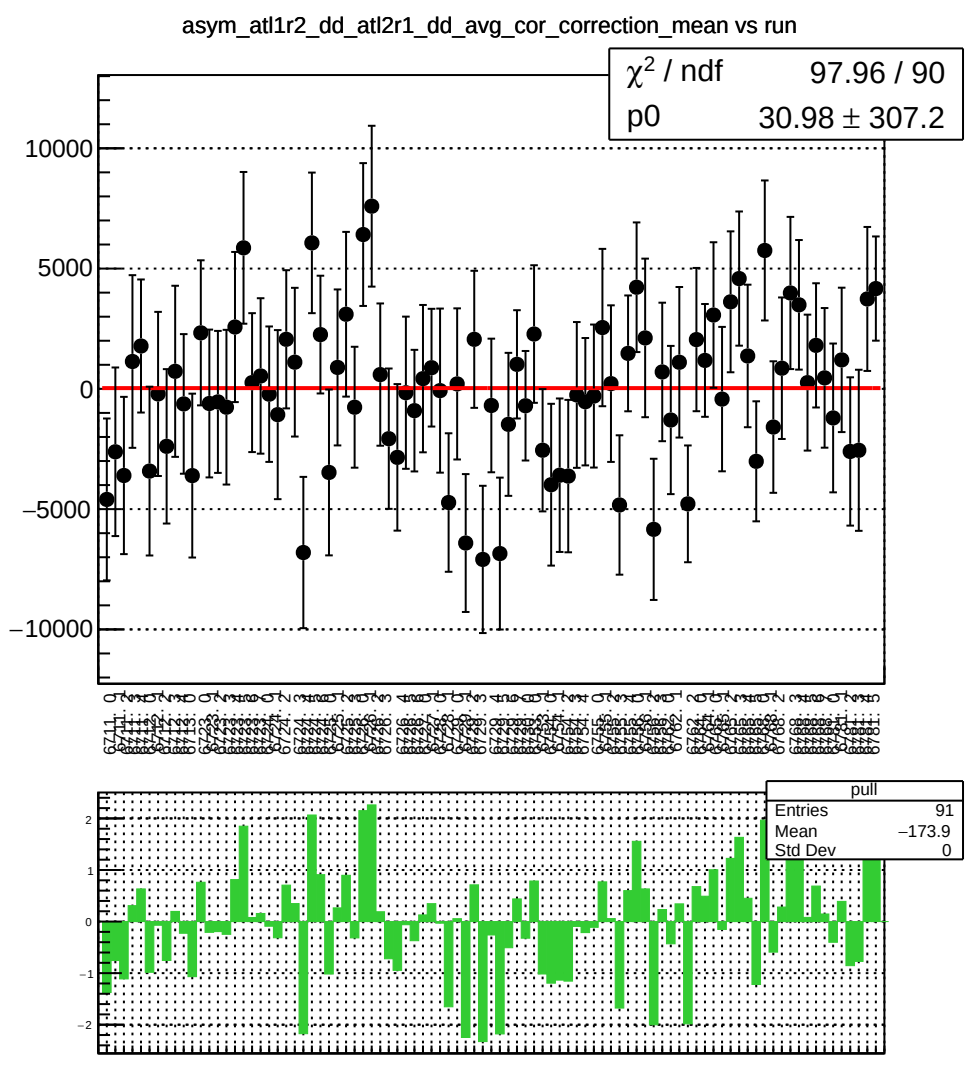

pull1D
Entries 91
Mean −0.01708
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

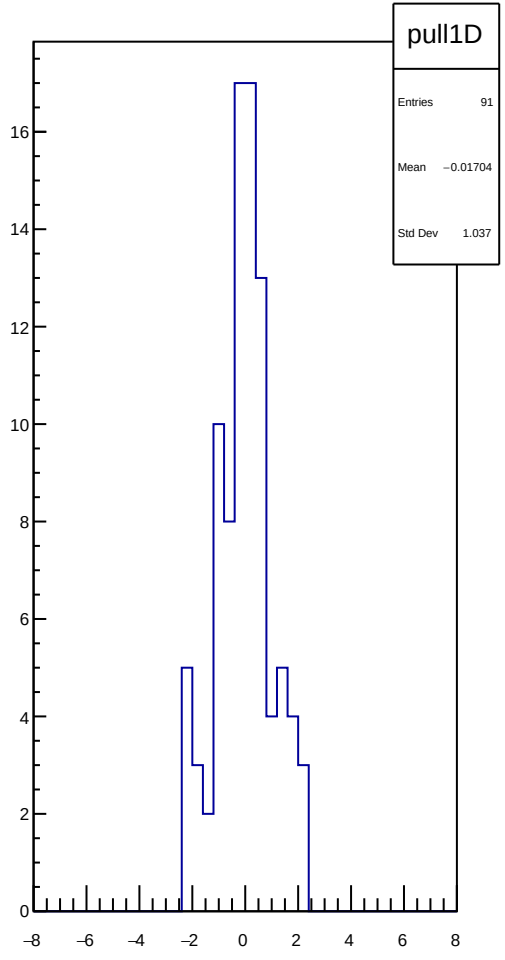

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 8302 / 90
p0 291.2 ± 0.2173
340
320
300
280
260
240

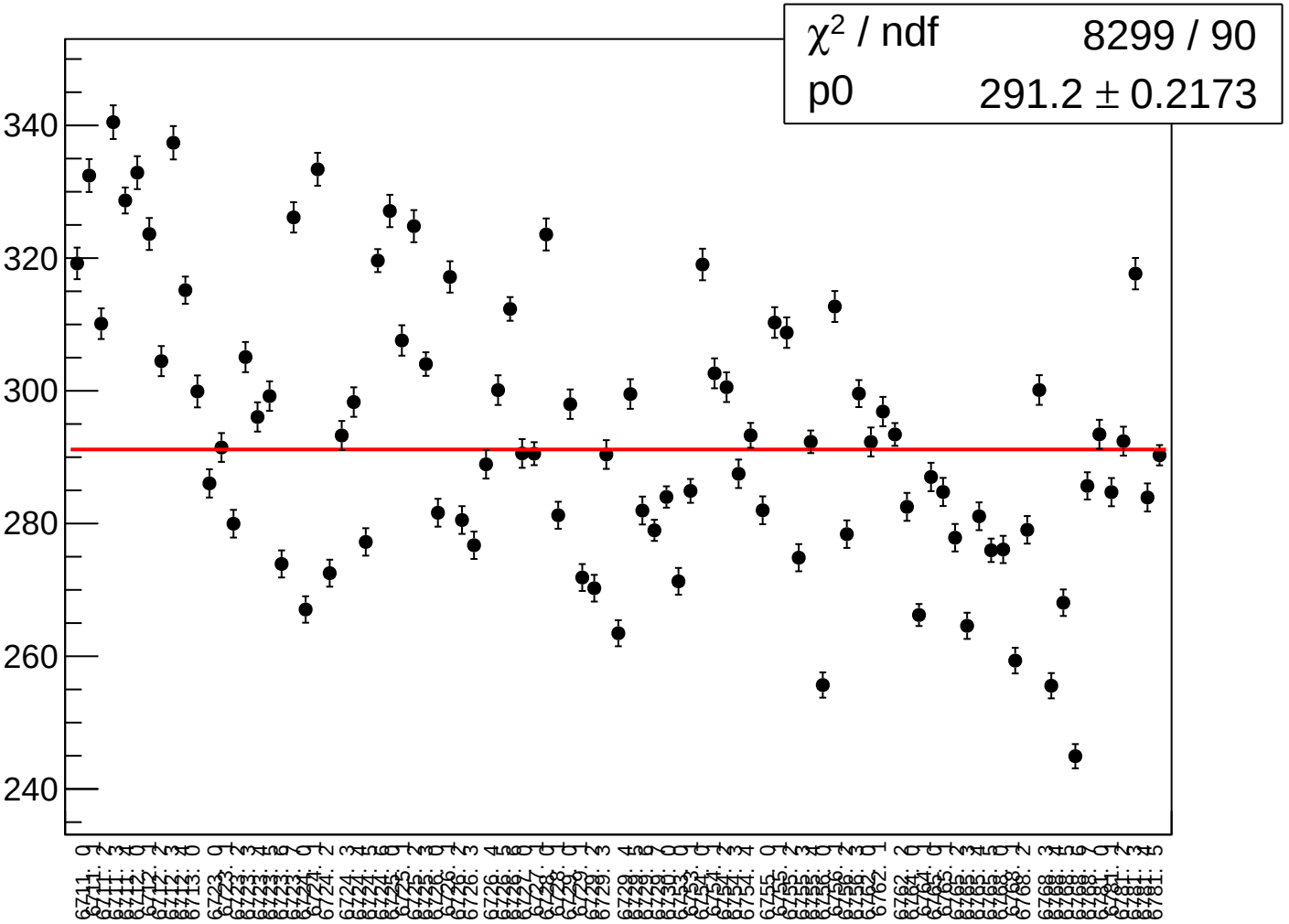

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 97.13 / 90
p0 2409 ± 1330
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 818
Std Dev 0
3
2
1
0
−1
−2

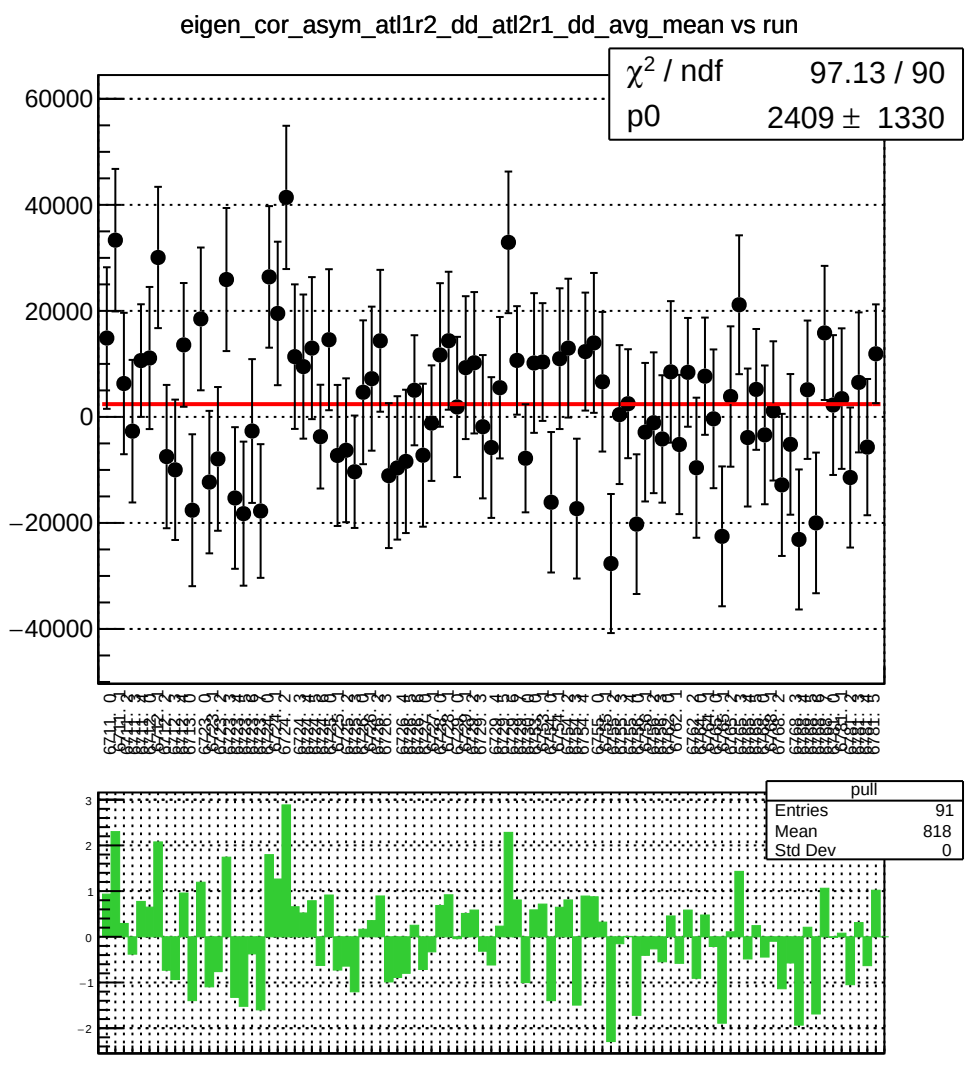

pull1D
Entries 91
Mean −0.007089
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

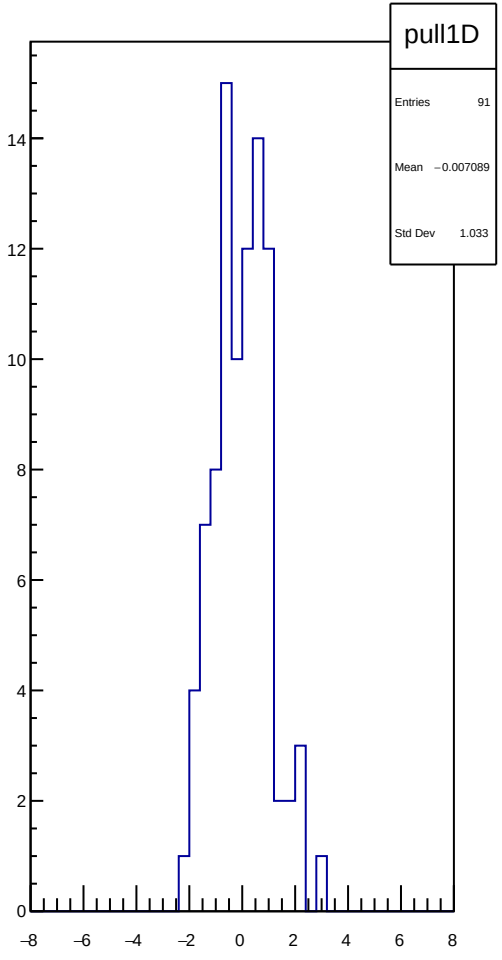

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 306.7 / 90
p0 1263 ± 0.9405
1300
1280
1260
1240
1220

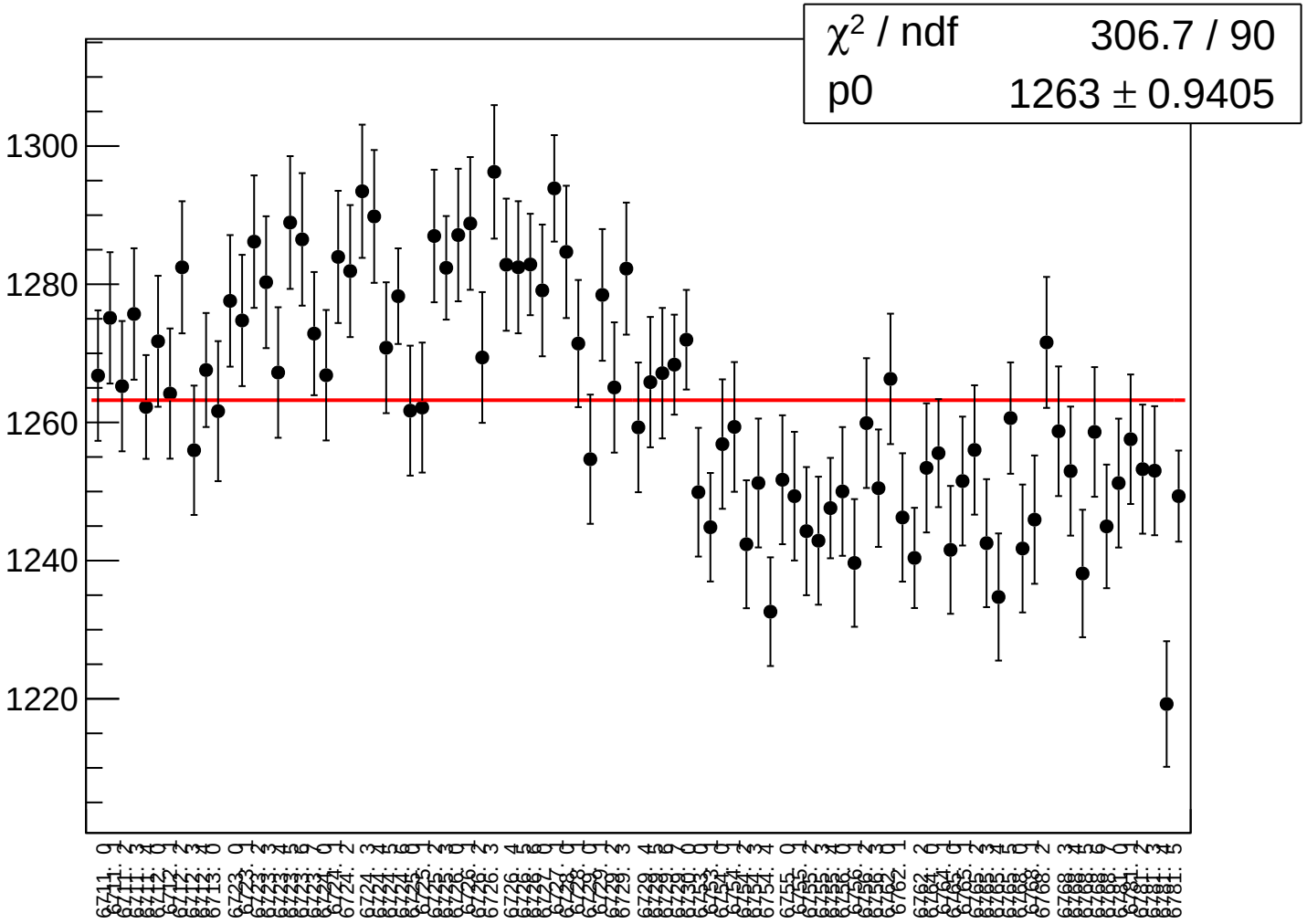

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 97.96 / 90
p0 30.98 ± 307.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −173.9
Std Dev 0
2
1
0
−1
−2

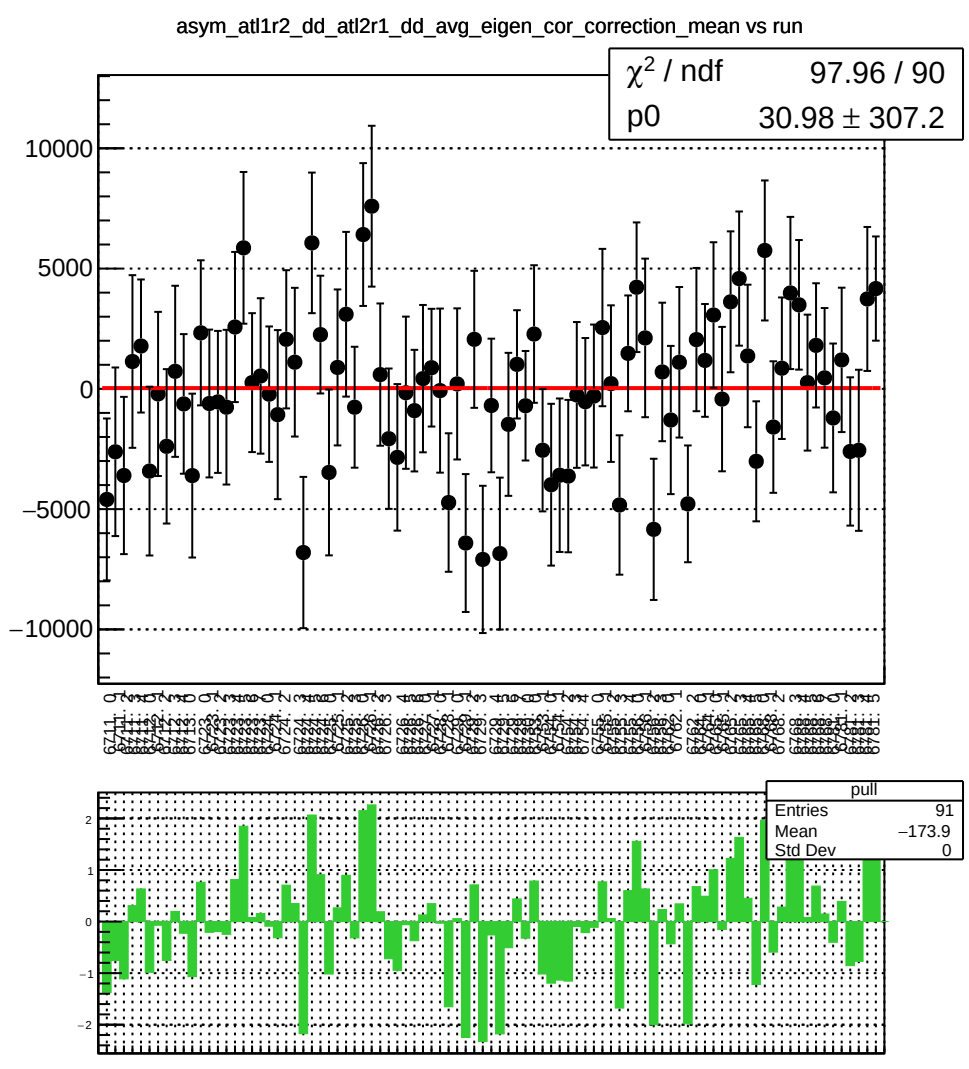

pull1D
Entries 91
Mean −0.01704
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

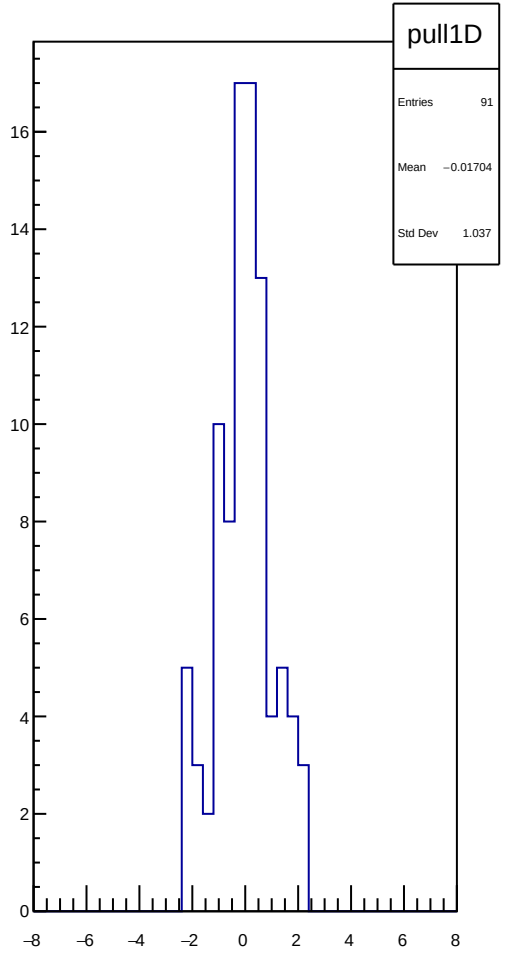

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 8299 / 90
p0 291.2 ± 0.2173
340
320
300
280
260
240

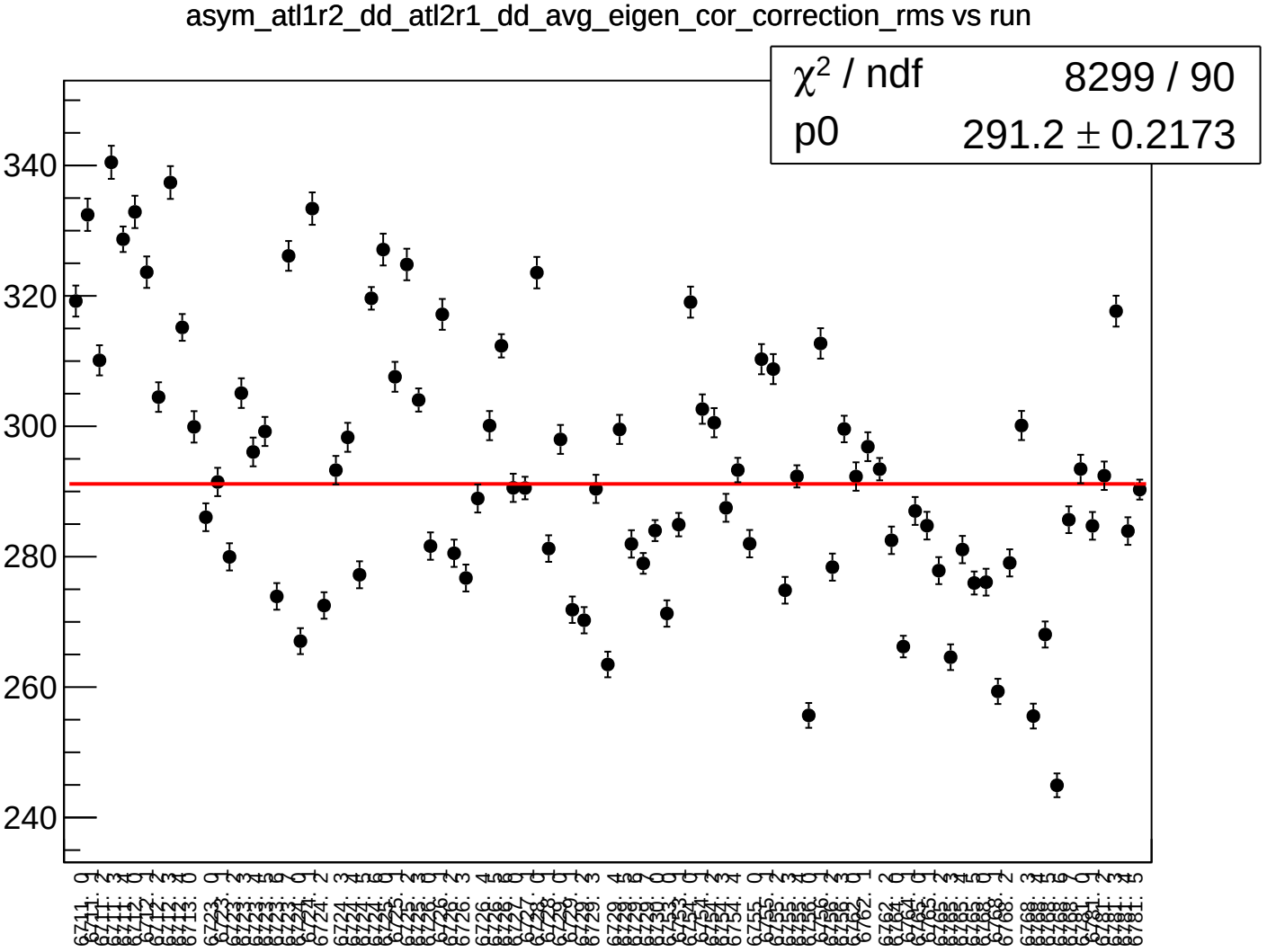

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 97.13 / 90
p0 2409 ± 1330
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 818
Std Dev 0
3
2
1
0
−1
−2

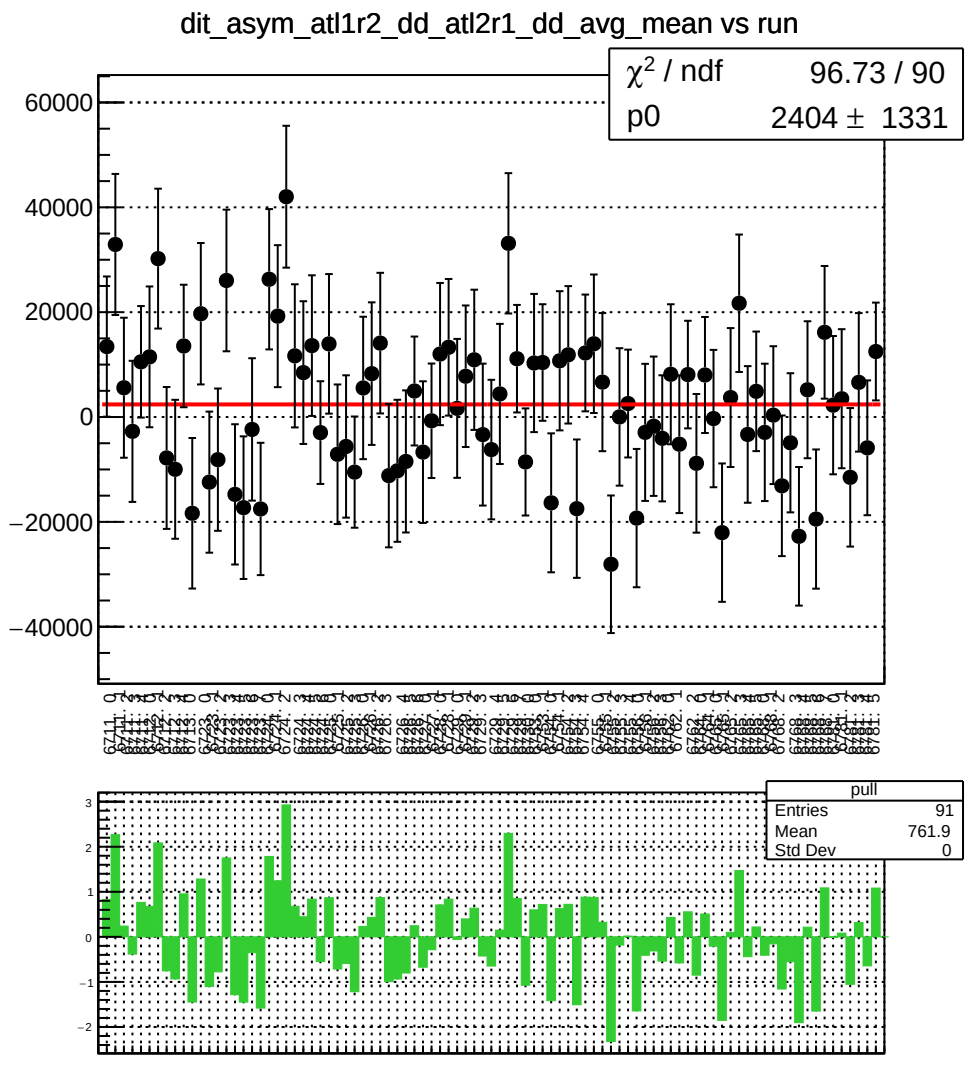

pull1D
Entries 91
Mean −0.007089
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

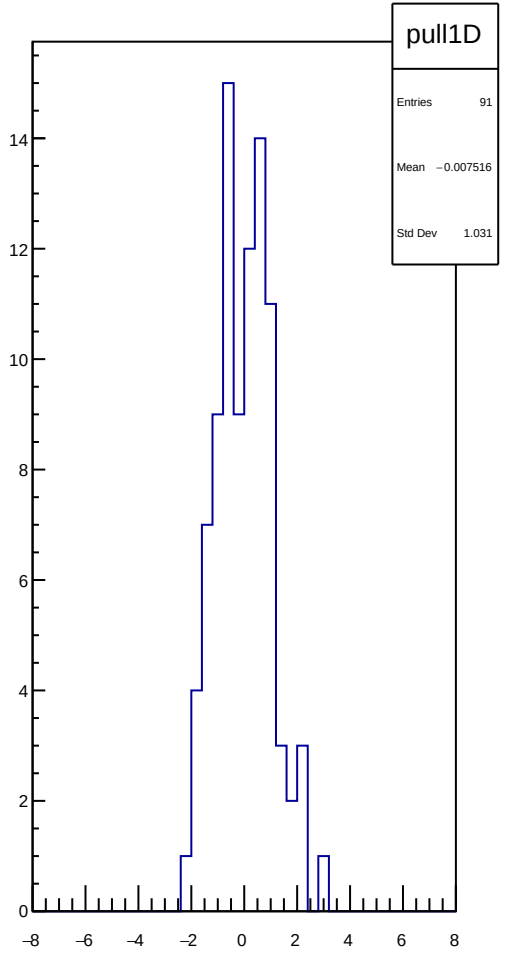

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 306.7 / 90
p0 1263 ± 0.9405
1300
1280
1260
1240
1220

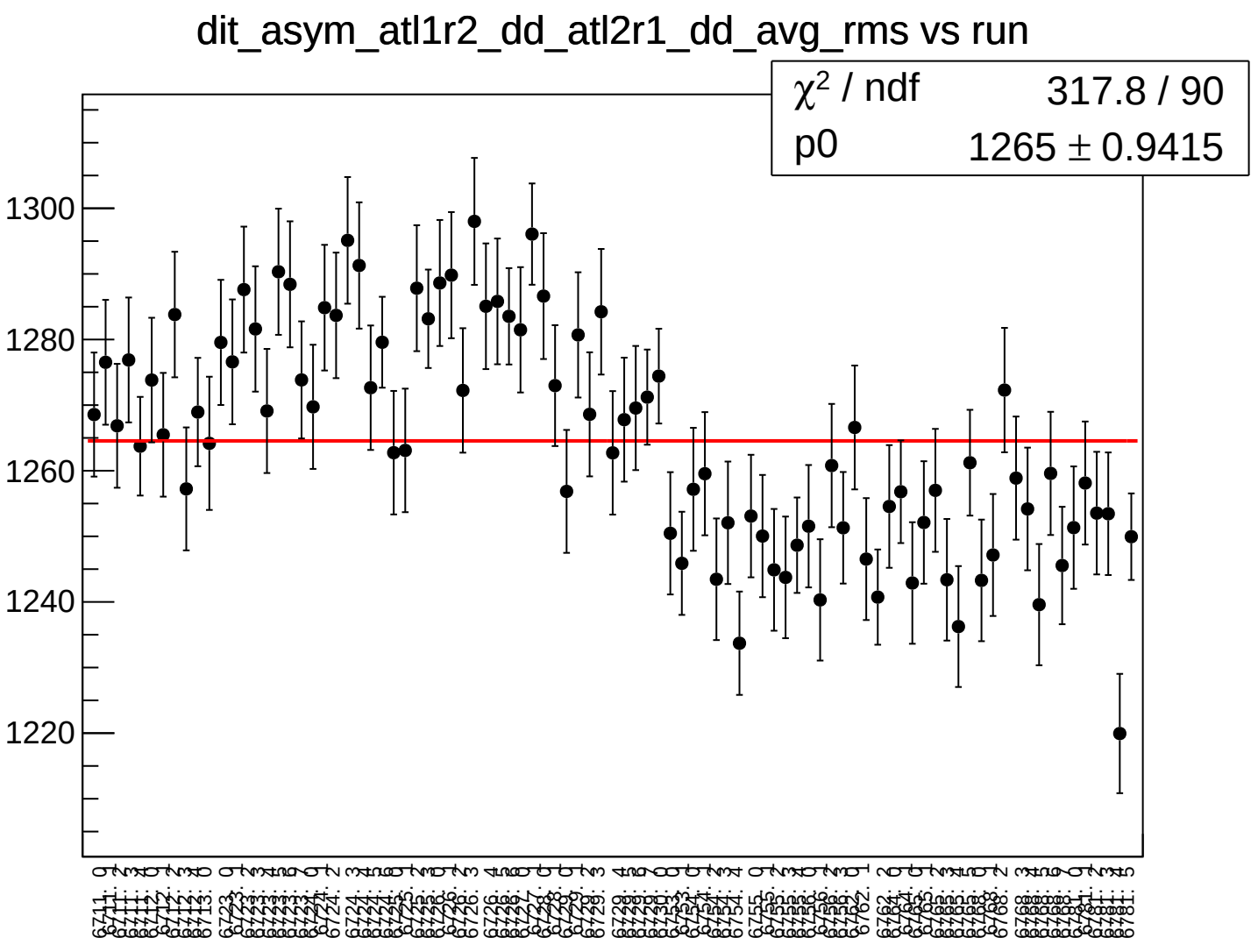

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.96 / 90
p0 30.98 ± 307.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −173.9
Std Dev 0
2
1
0
−1
−2

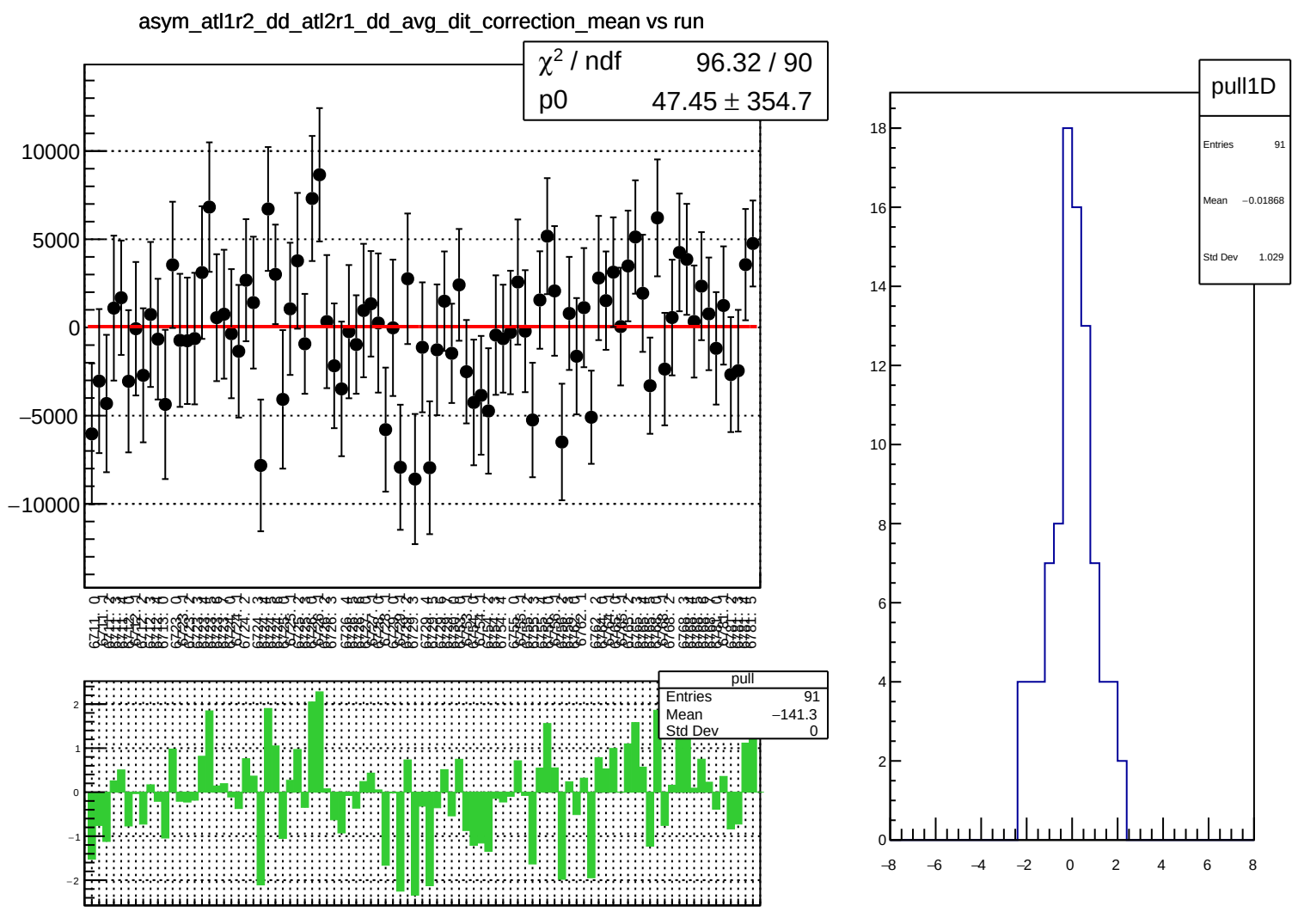

pull1D
Entries 91
Mean −0.01704
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

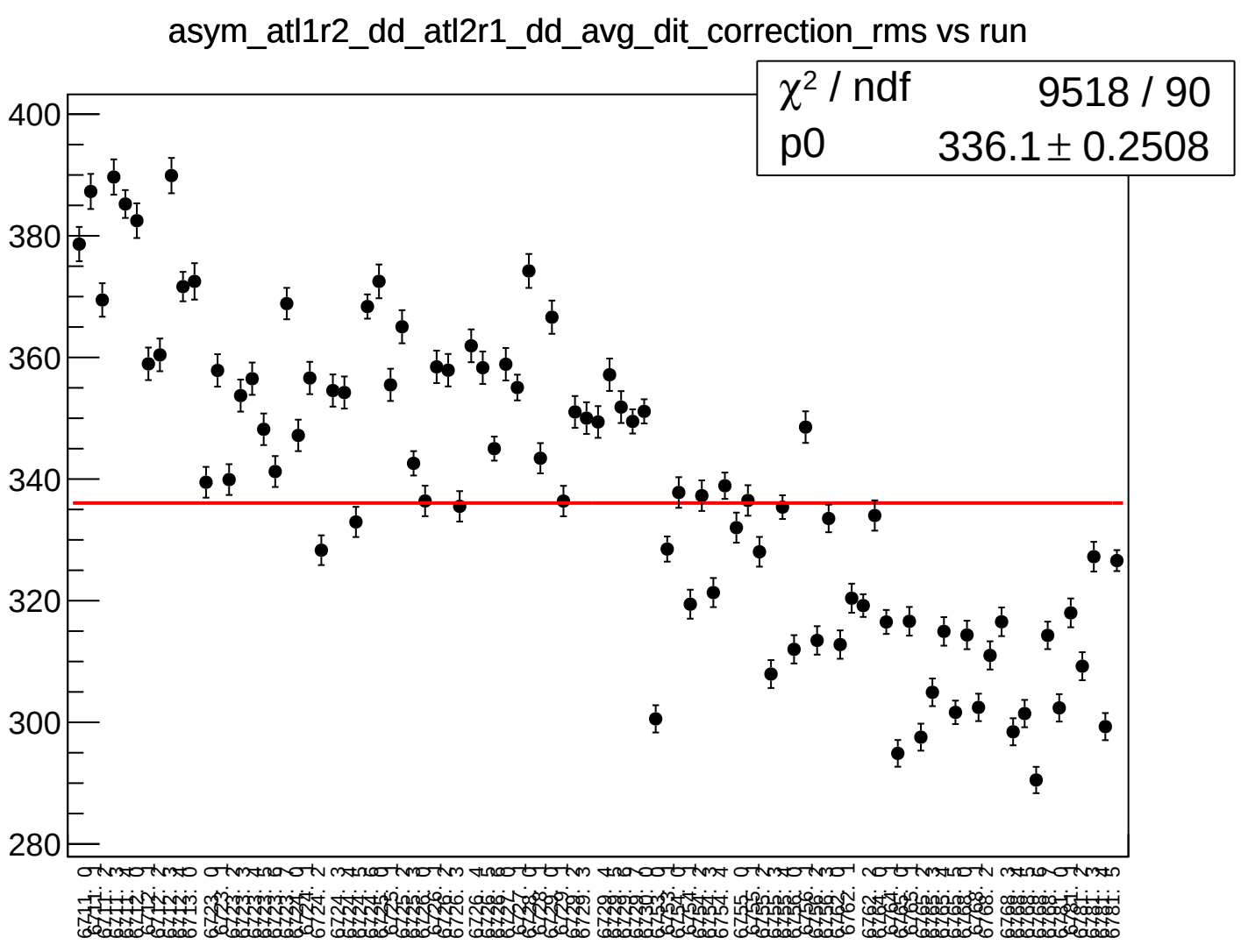

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 8299 / 90
p0 291.2 ± 0.2173
340
320
300
280
260
240

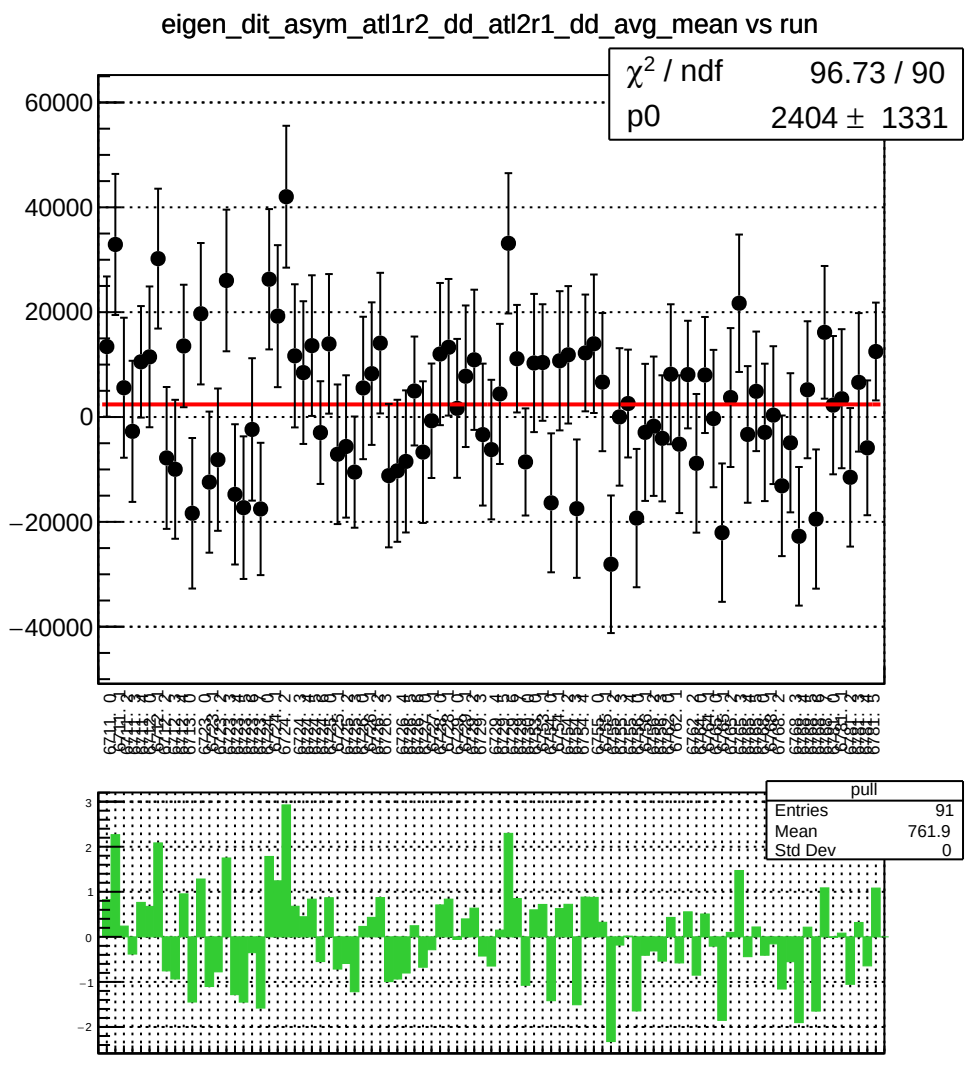

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 96.73 / 90
p0 2404 ± 1331
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 761.9
Std Dev 0
3
2
1
0
−1
−2

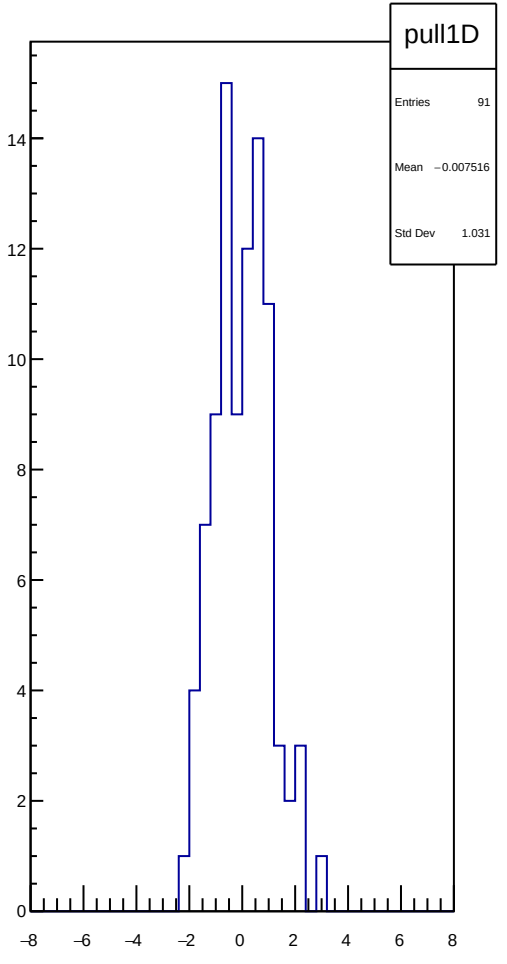

pull1D
Entries 91
Mean −0.007516
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

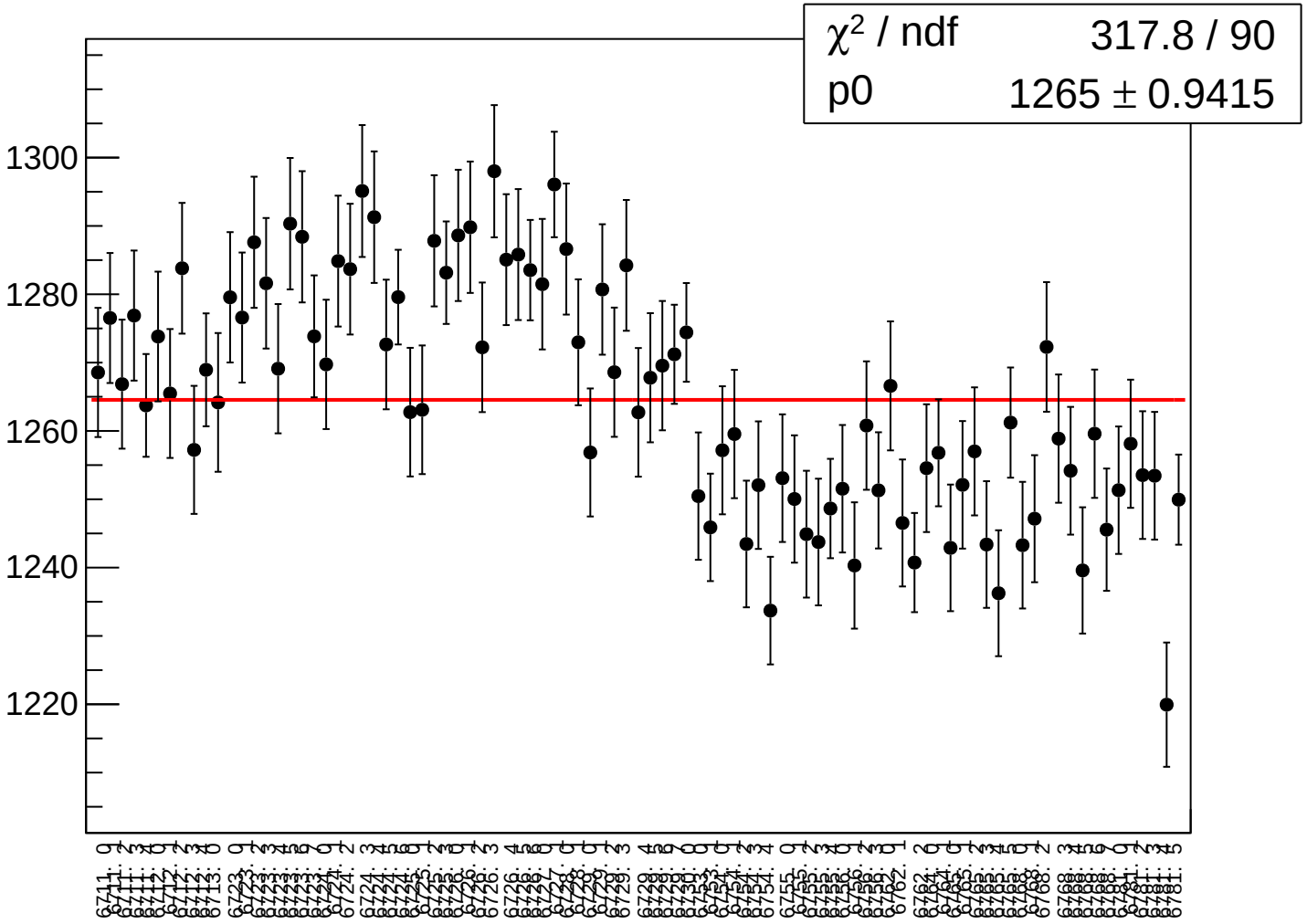

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 317.8 / 90
p0 1265 ± 0.9415
1300
1280
1260
1240
1220

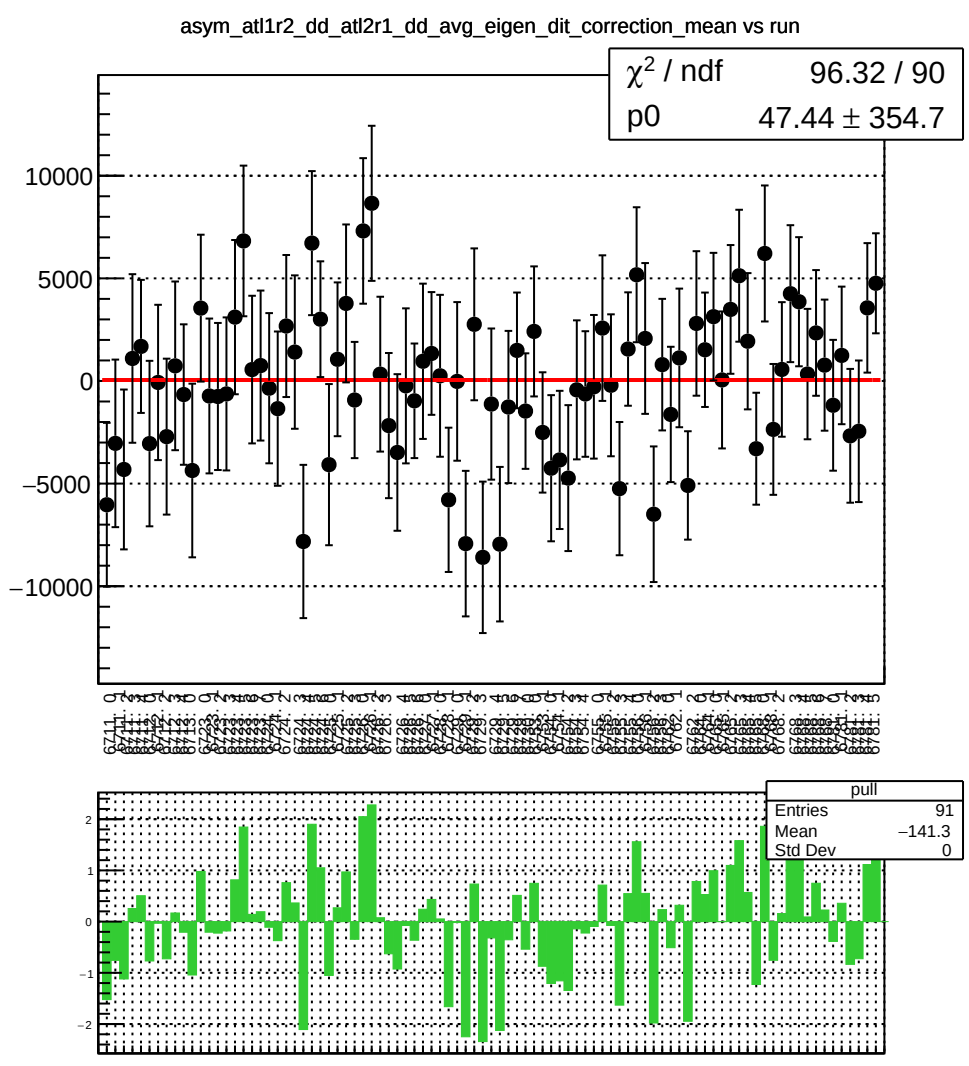

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 96.32 / 90
p0 47.45 ± 354.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −141.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01868
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

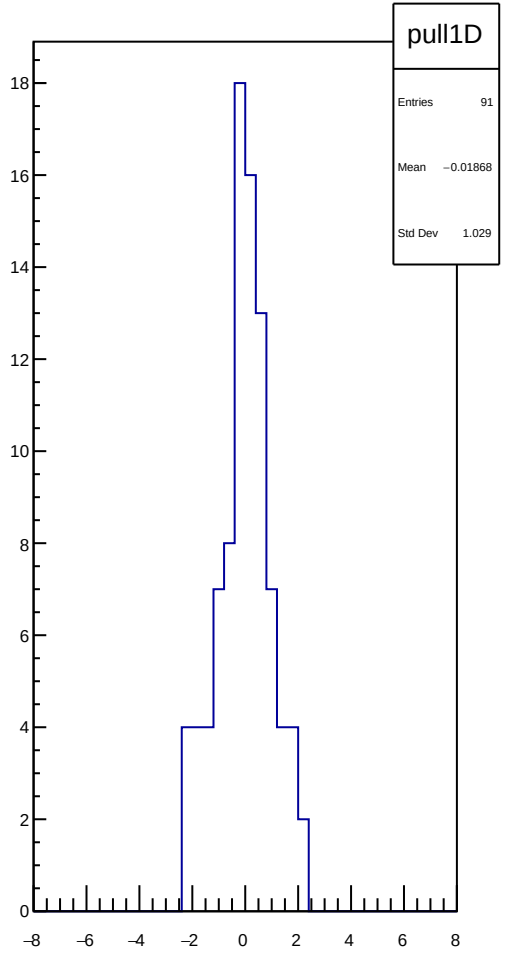

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 9518 / 90
p0 336.1 ± 0.2508
400
380
360
340
320
300
280

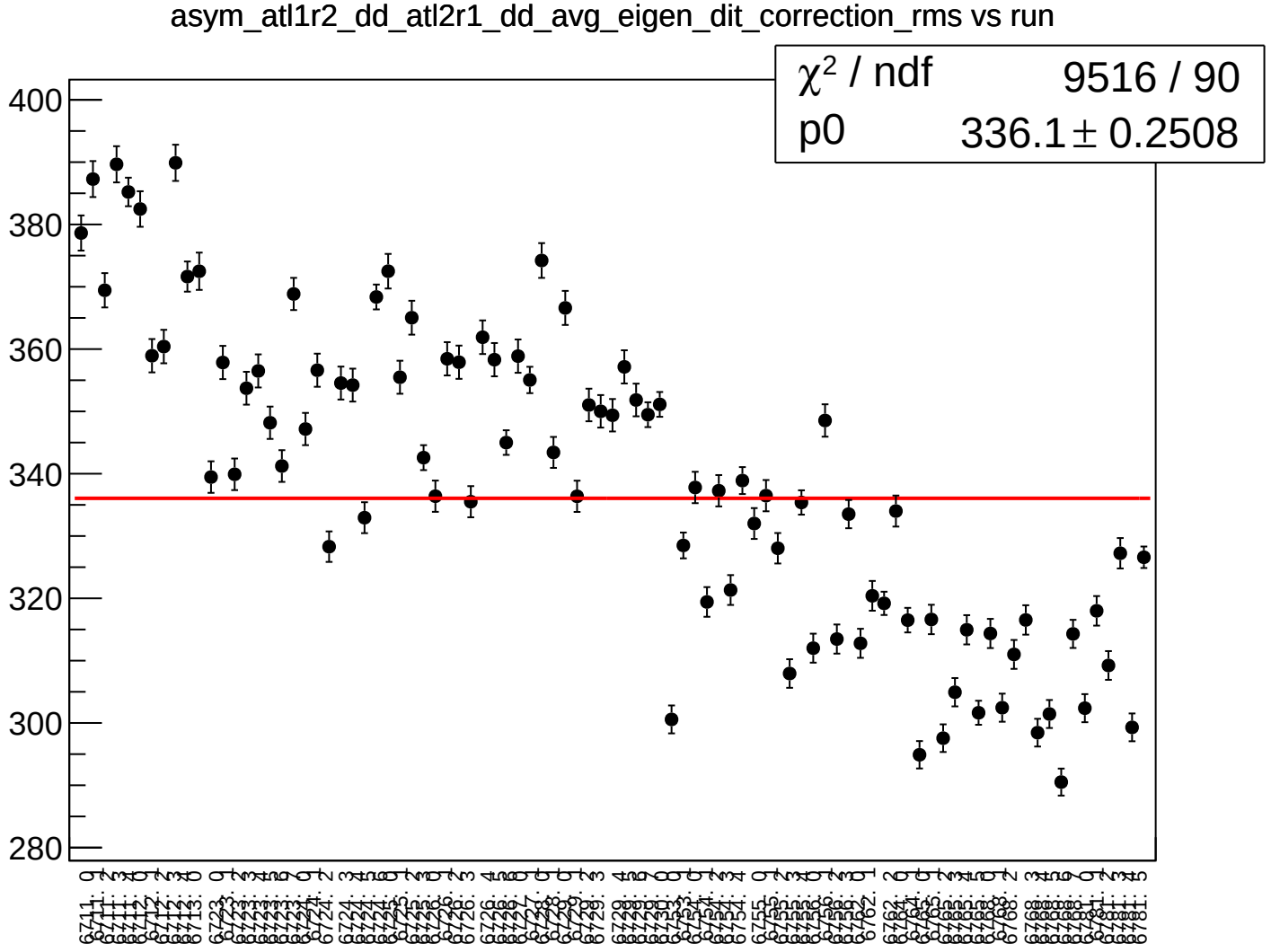

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 96.73 / 90
p0 2404 ± 1331
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 761.9
Std Dev 0
3
2
1
0
−1
−2

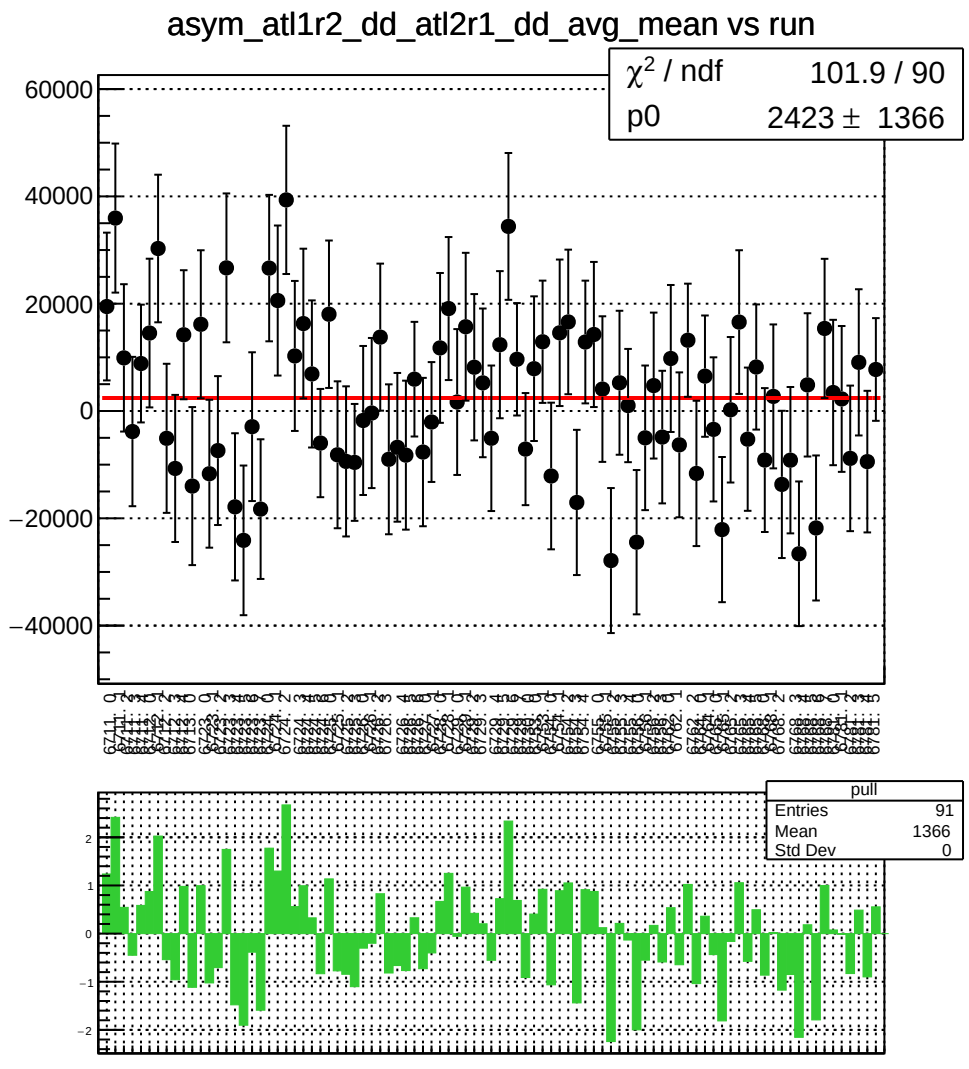

pull1D
Entries 91
Mean −0.007516
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

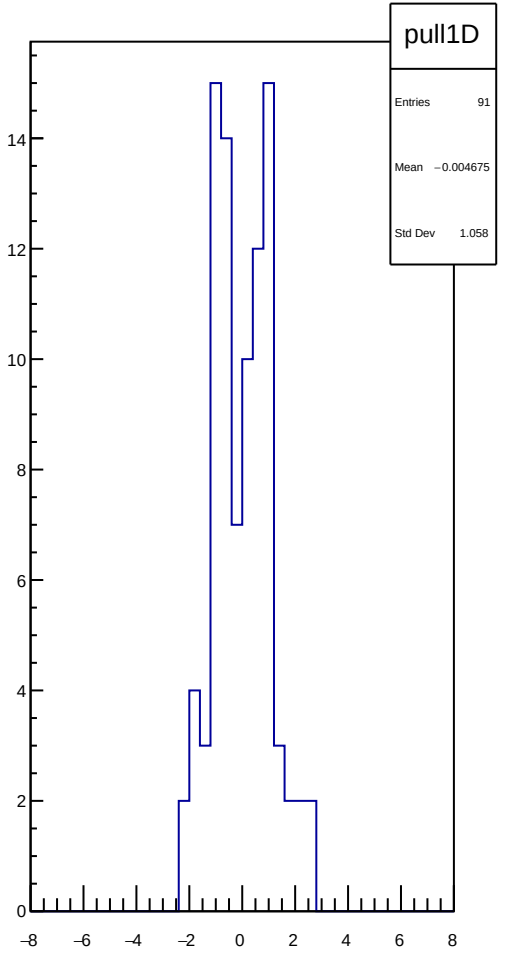

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 317.8 / 90
p0 1265 ± 0.9415
1300
1280
1260
1240
1220

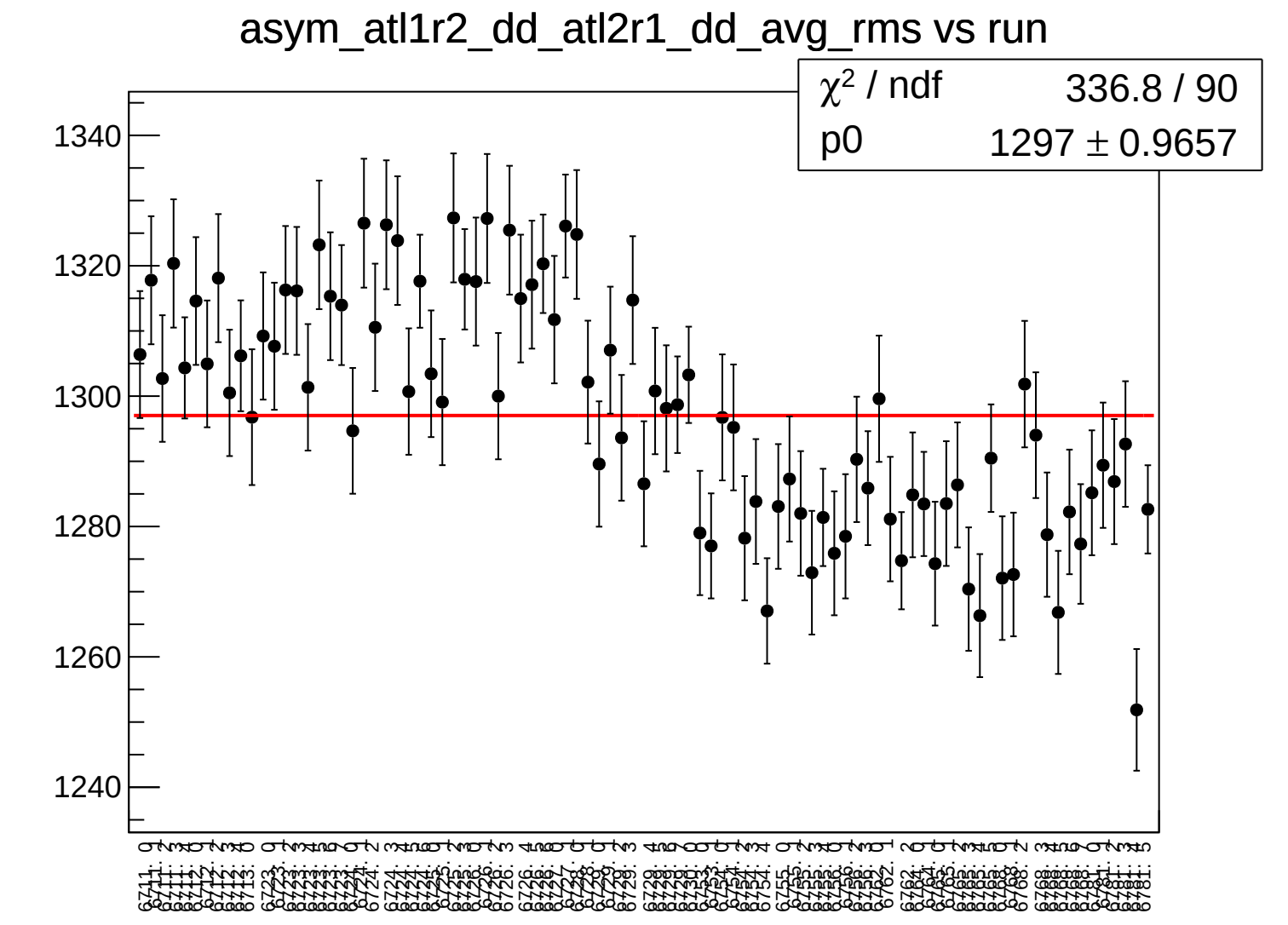

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 96.32 / 90
p0 47.44 ± 354.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −141.3
Std Dev 0
2
1
0
−1
−2

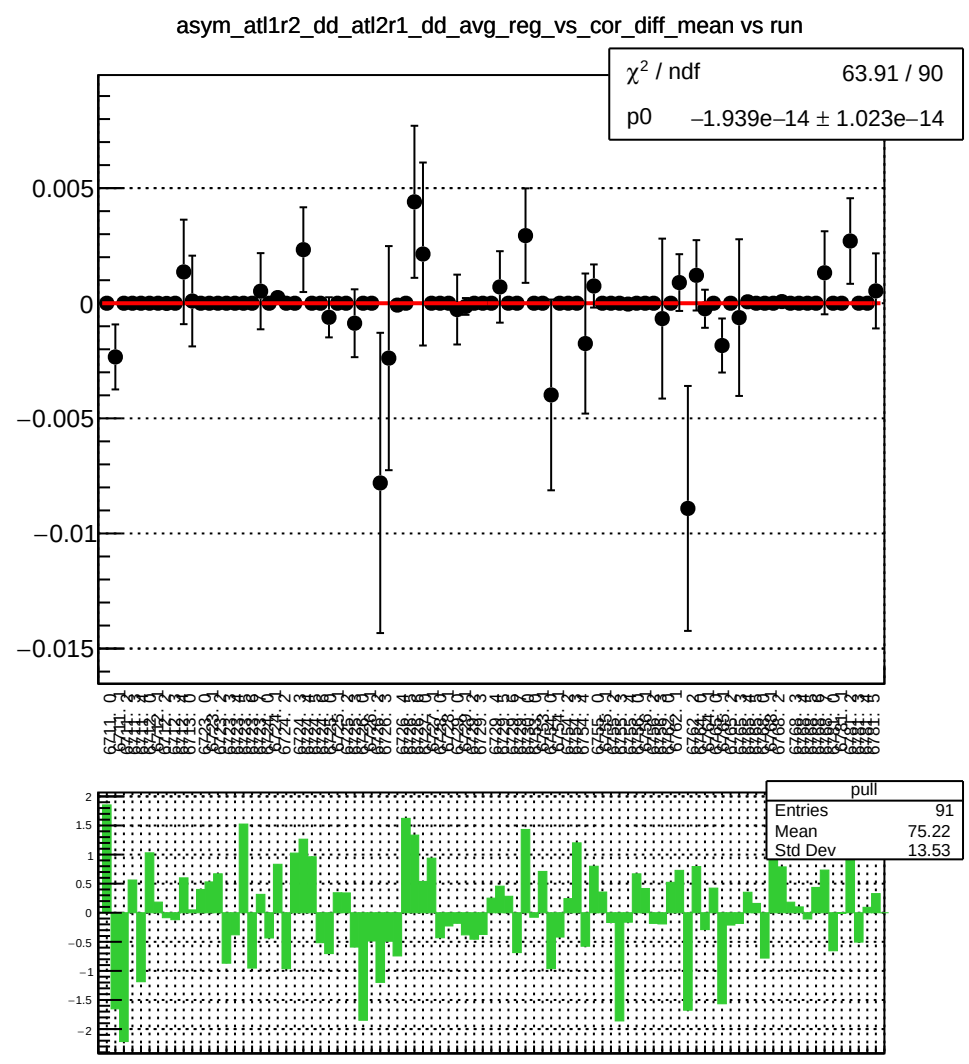

pull1D
Entries 91
Mean −0.01868
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

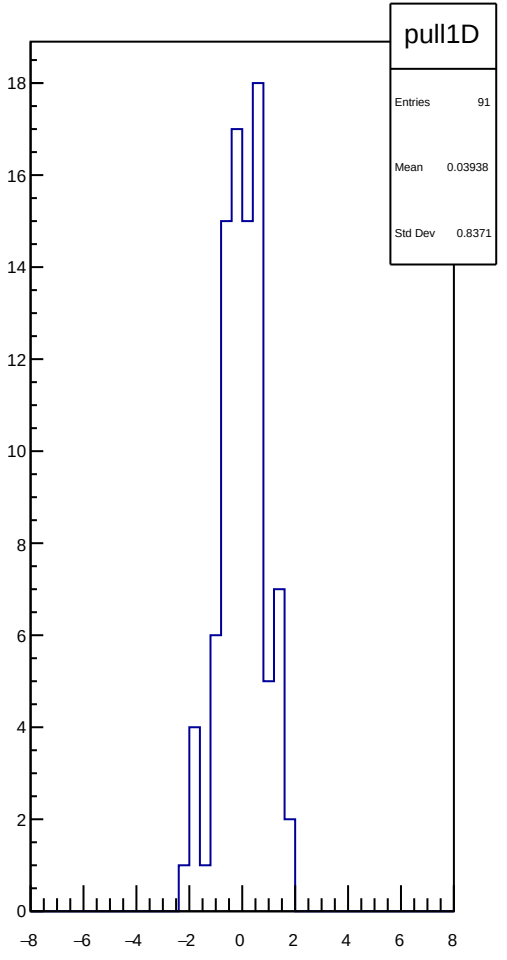

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 9516 / 90
p0 336.1 ± 0.2508
400
380
360
340
320
300
280

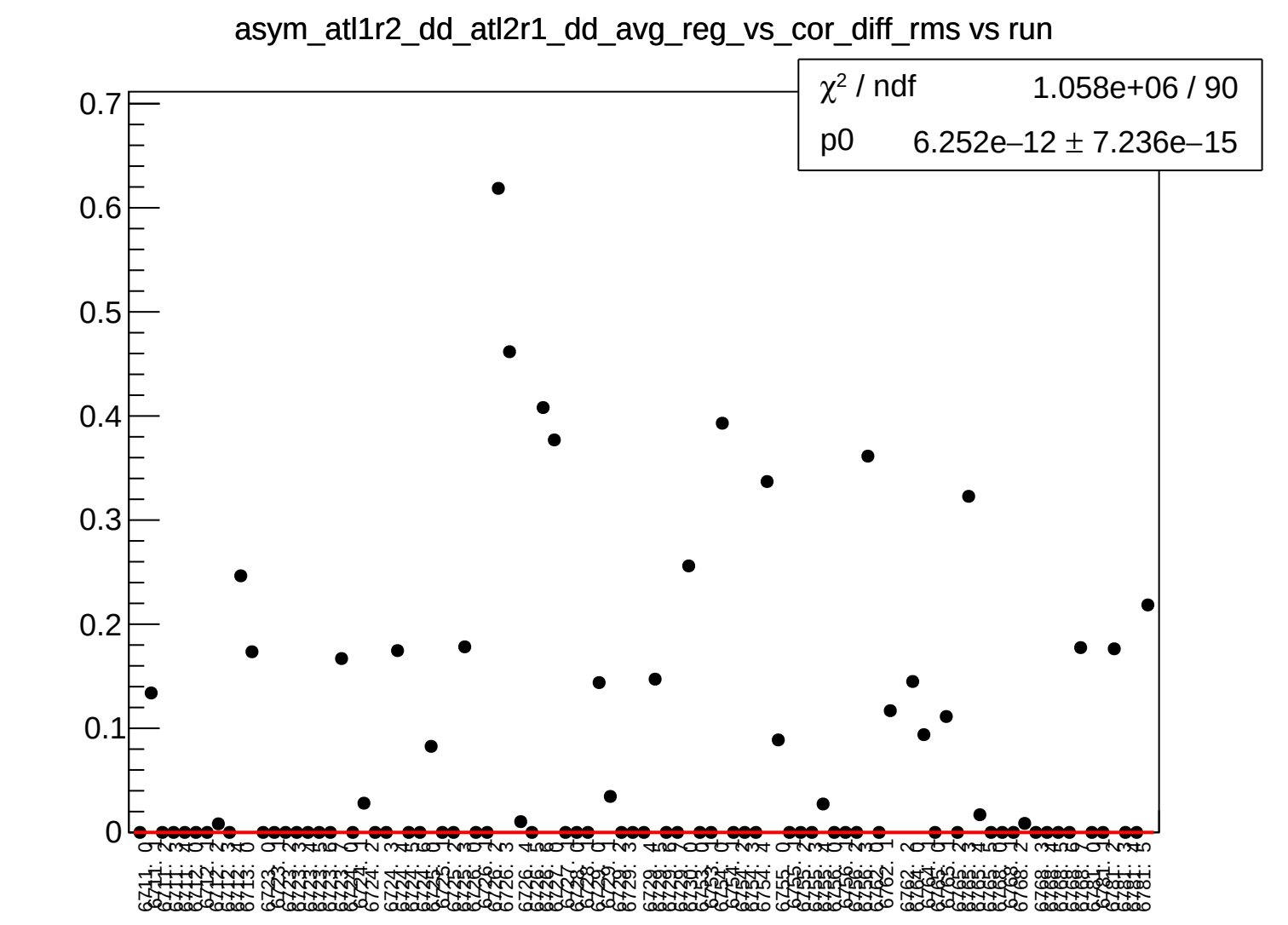

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 101.9 / 90
p0 2423 ± 1366
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 1366
Std Dev 0
2
1
0
−1
−2

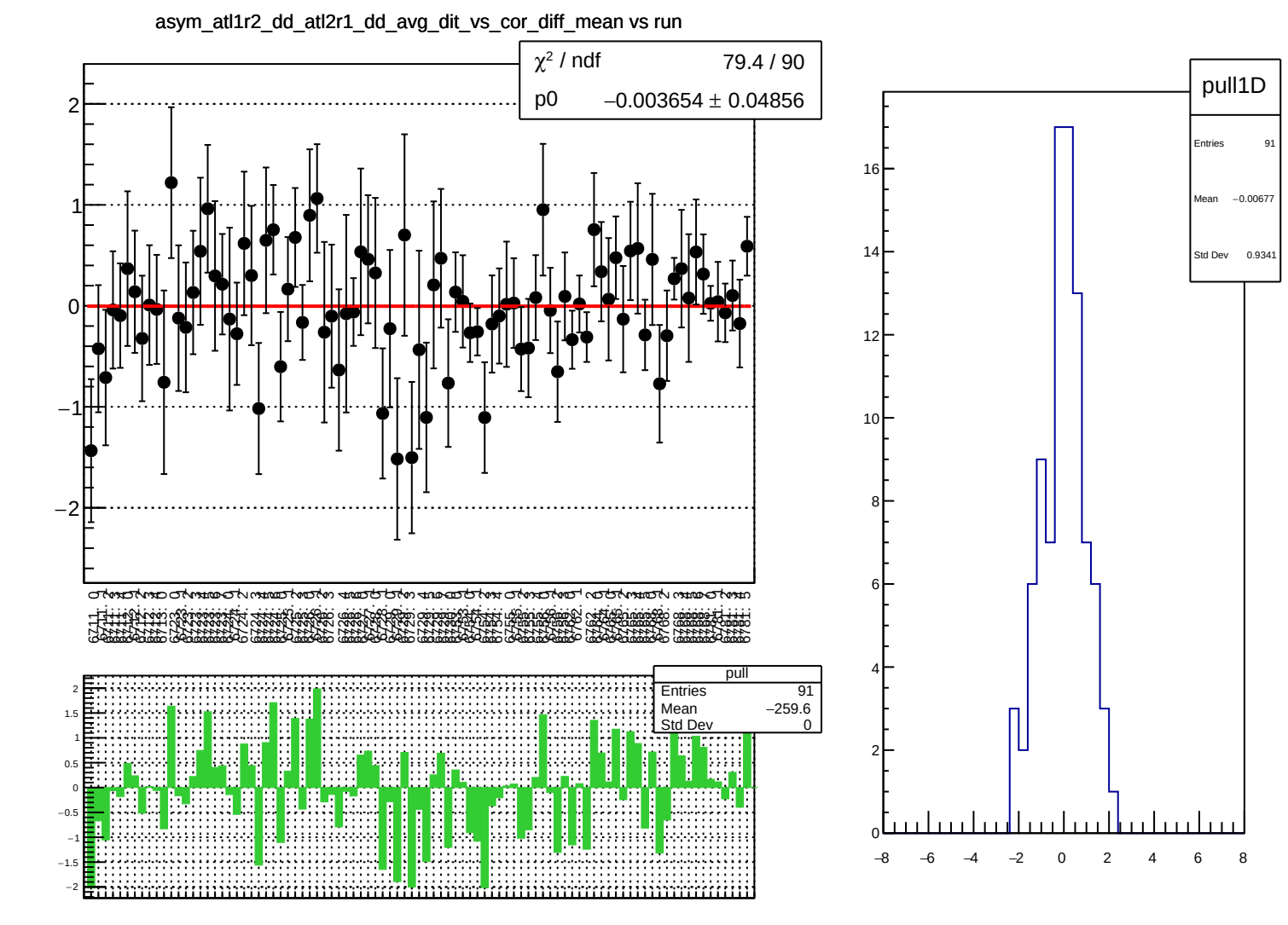

pull1D
Entries 91
Mean −0.004675
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

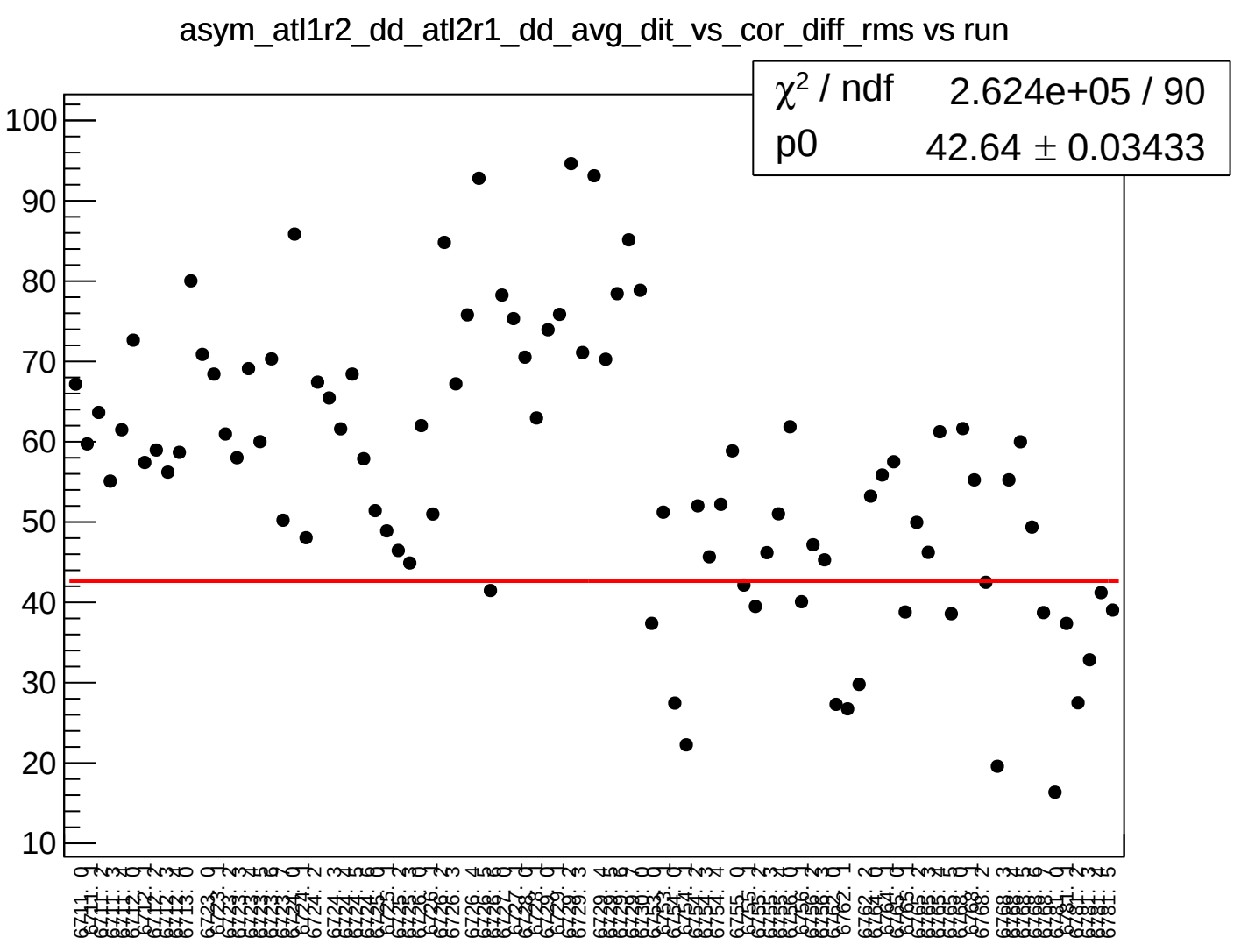

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 336.8 / 90
p0 1297 ± 0.9657
1340
1320
1300
1280
1260
1240

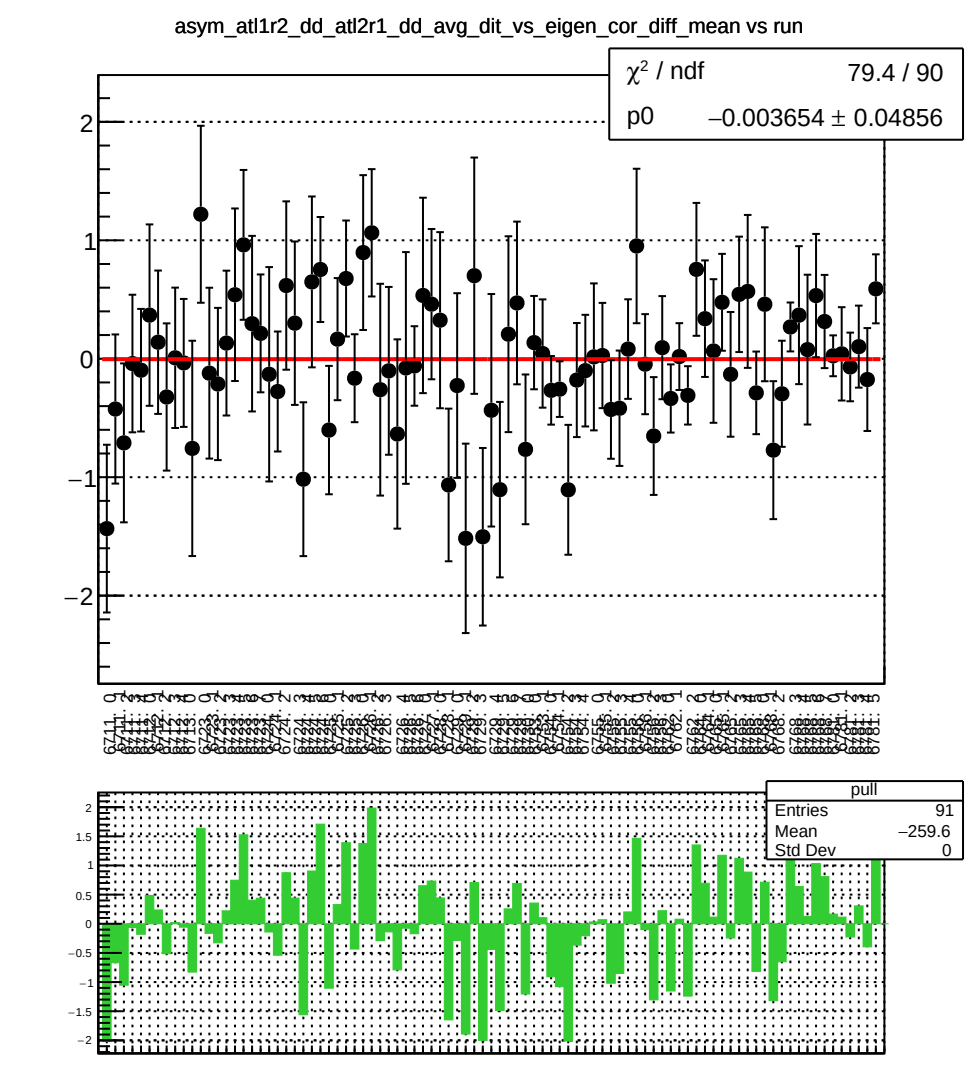

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 63.91 / 90
p0 −1.939e−14 ± 1.023e−14
0.005
0
−0.005
−0.01
−0.015
pull
Entries 91
Mean 75.22
Std Dev 13.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

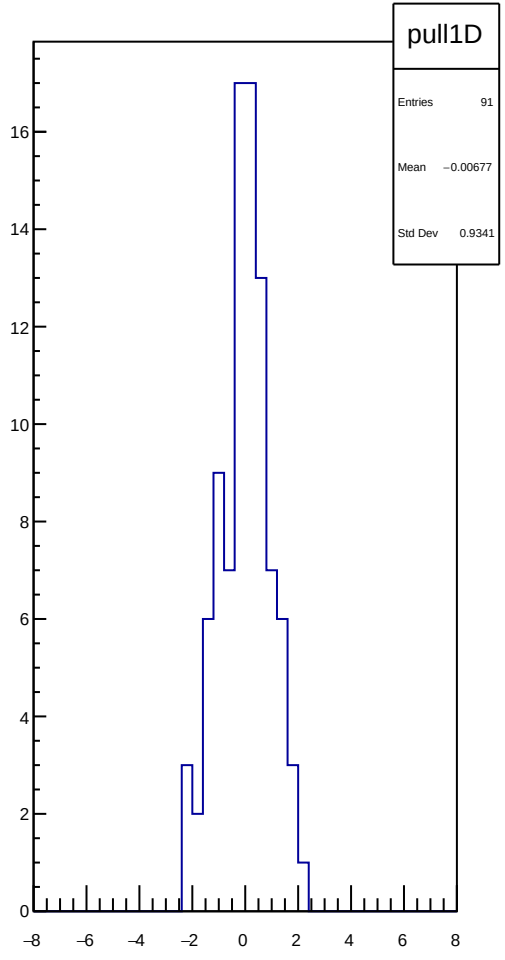

pull1D
Entries 91
Mean 0.03938
Std Dev 0.8371
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

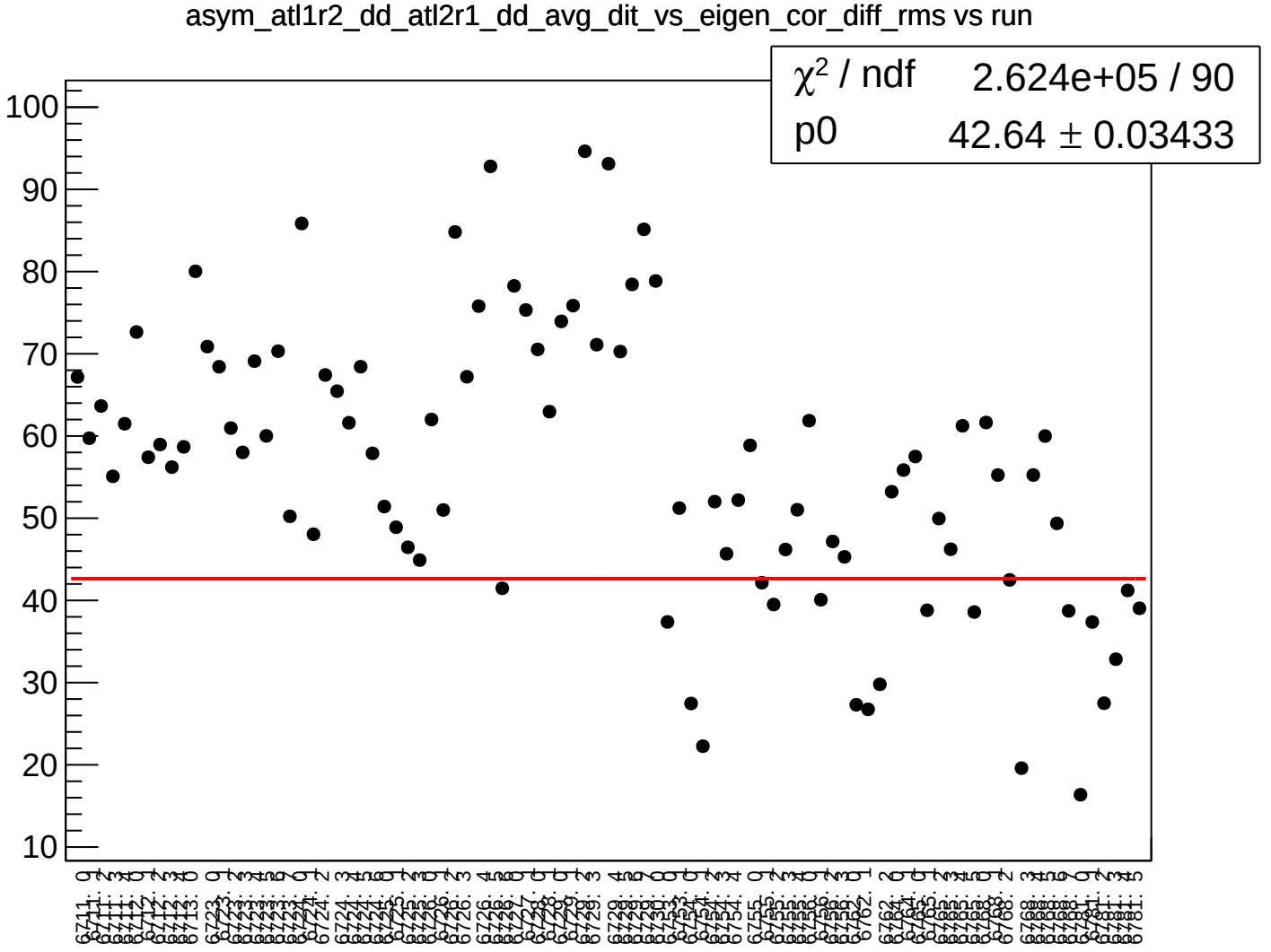

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.058e+06 / 90
p0 6.252e−12 ± 7.236e−15
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

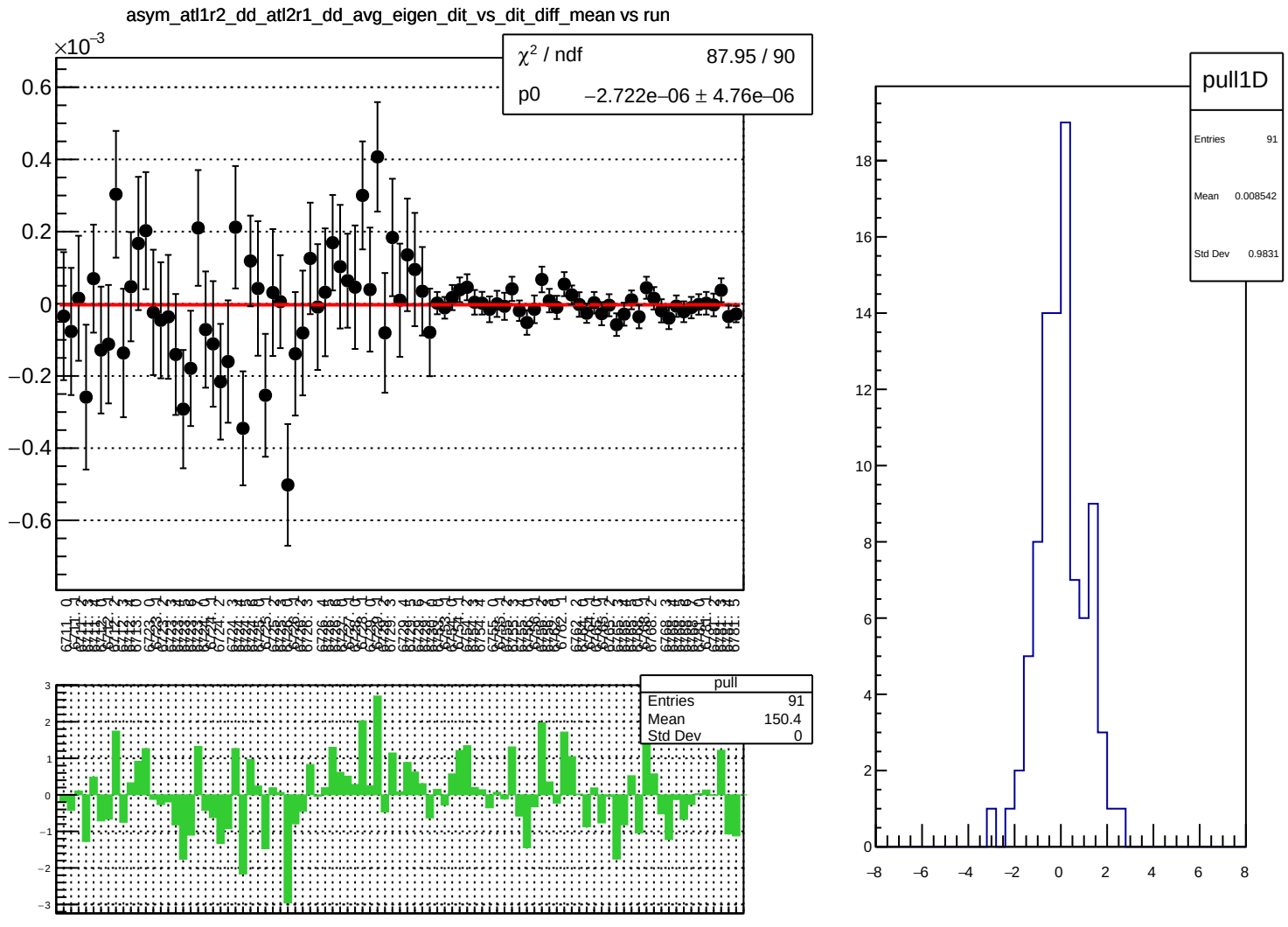

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.4 / 90
p0 −0.003654 ± 0.04856
pull
Entries 91
Mean −259.6
Std Dev 0
pull1D
Entries 91
Mean −0.00677
Std Dev 0.9341

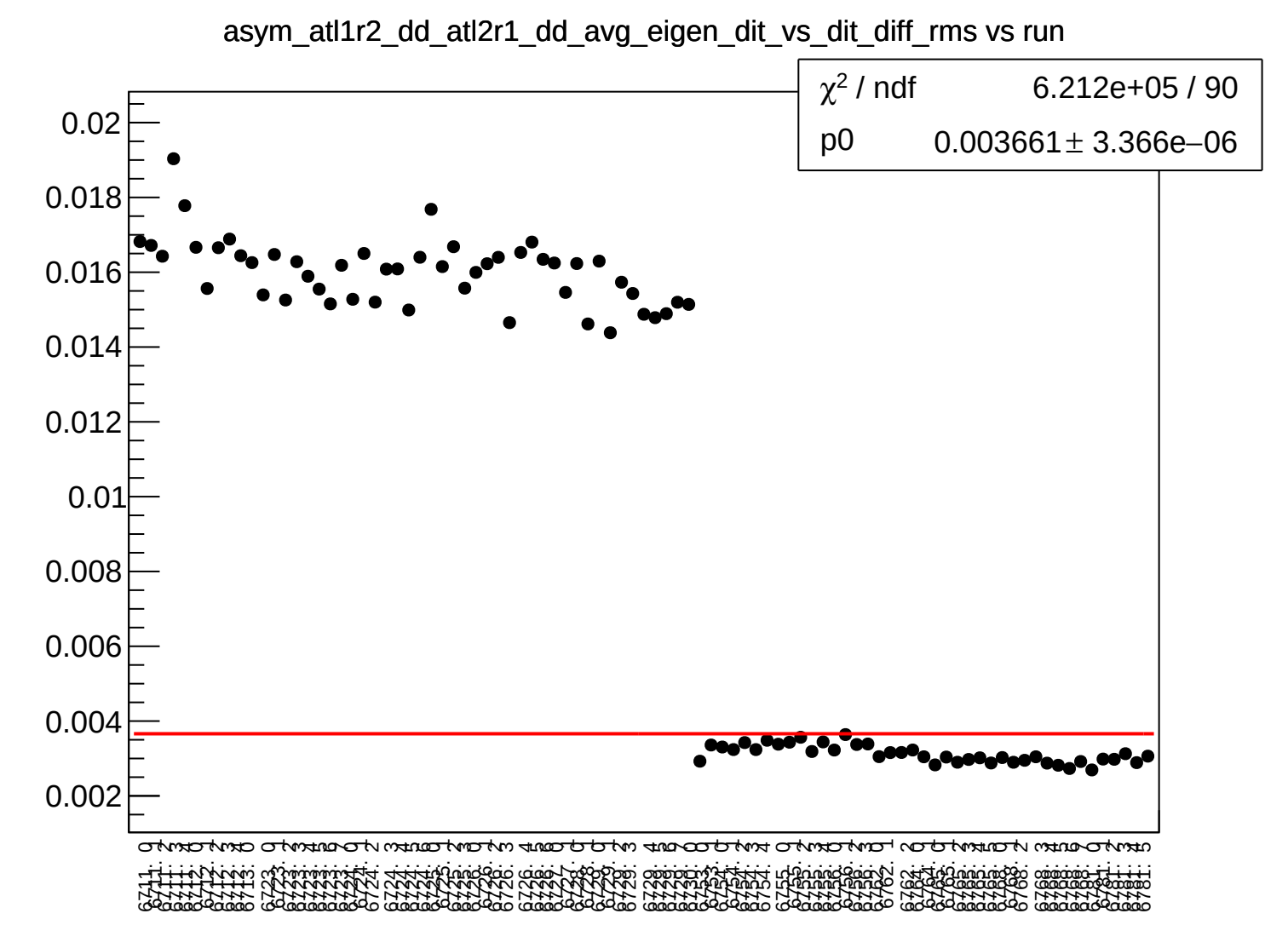

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.624e+05 / 90
p0 42.64 ± 0.03433
100
90
80
70
60
50
40
30
20
10

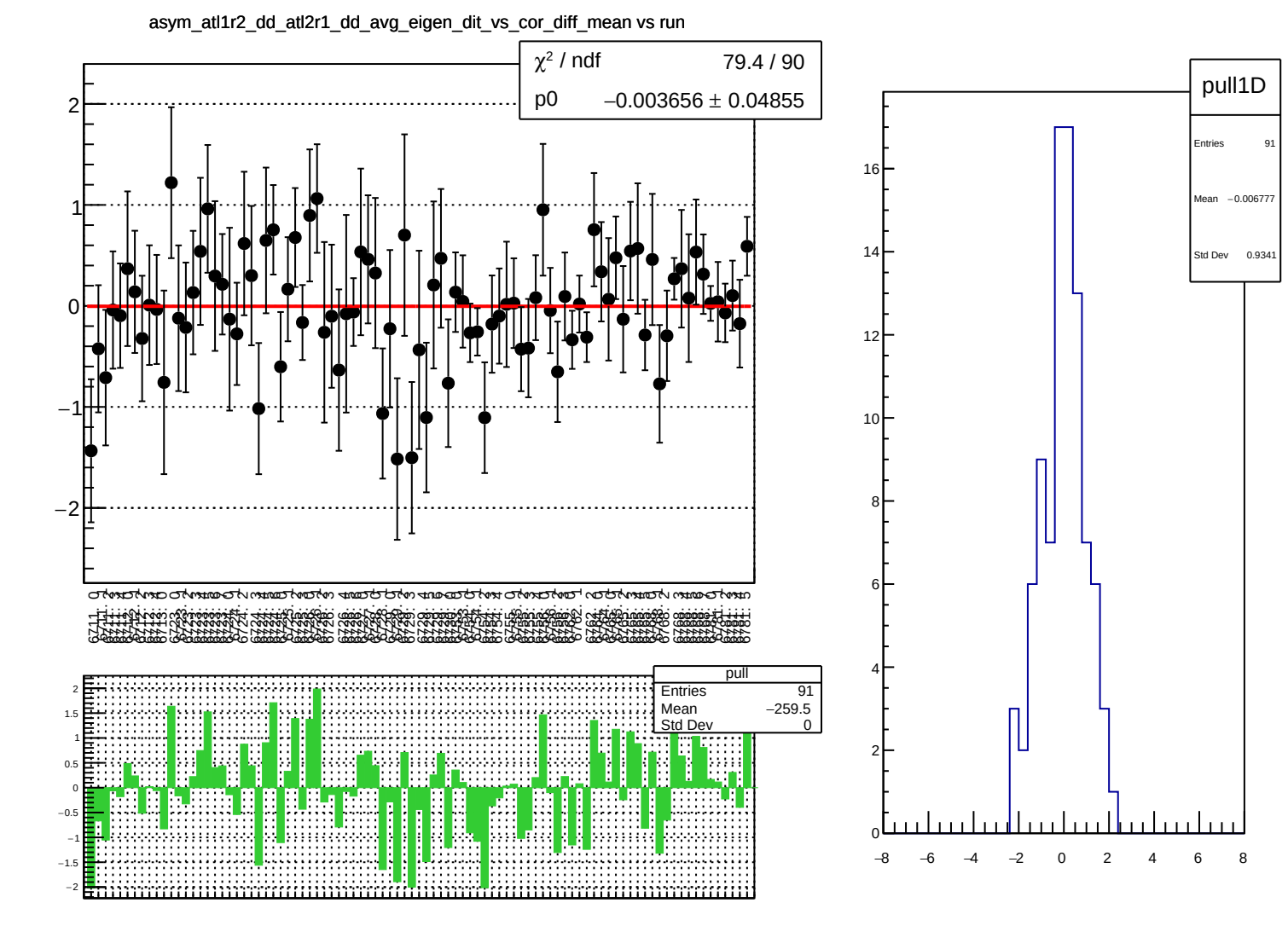

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.4 / 90
p0 −0.003654 ± 0.04856
pull
Entries 91
Mean −259.6
Std Dev 0

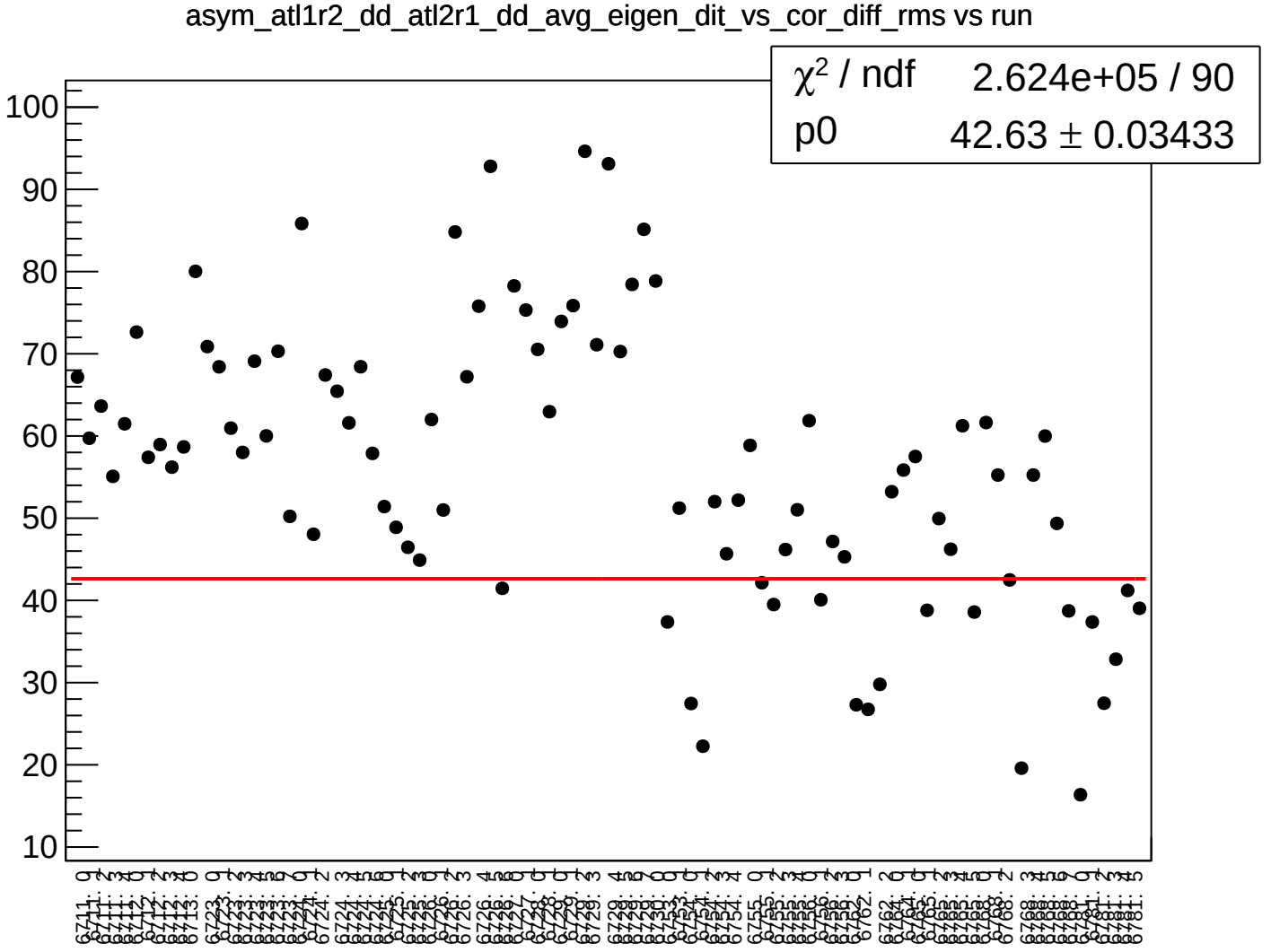

pull1D
Entries 91
Mean −0.00677
Std Dev 0.9341

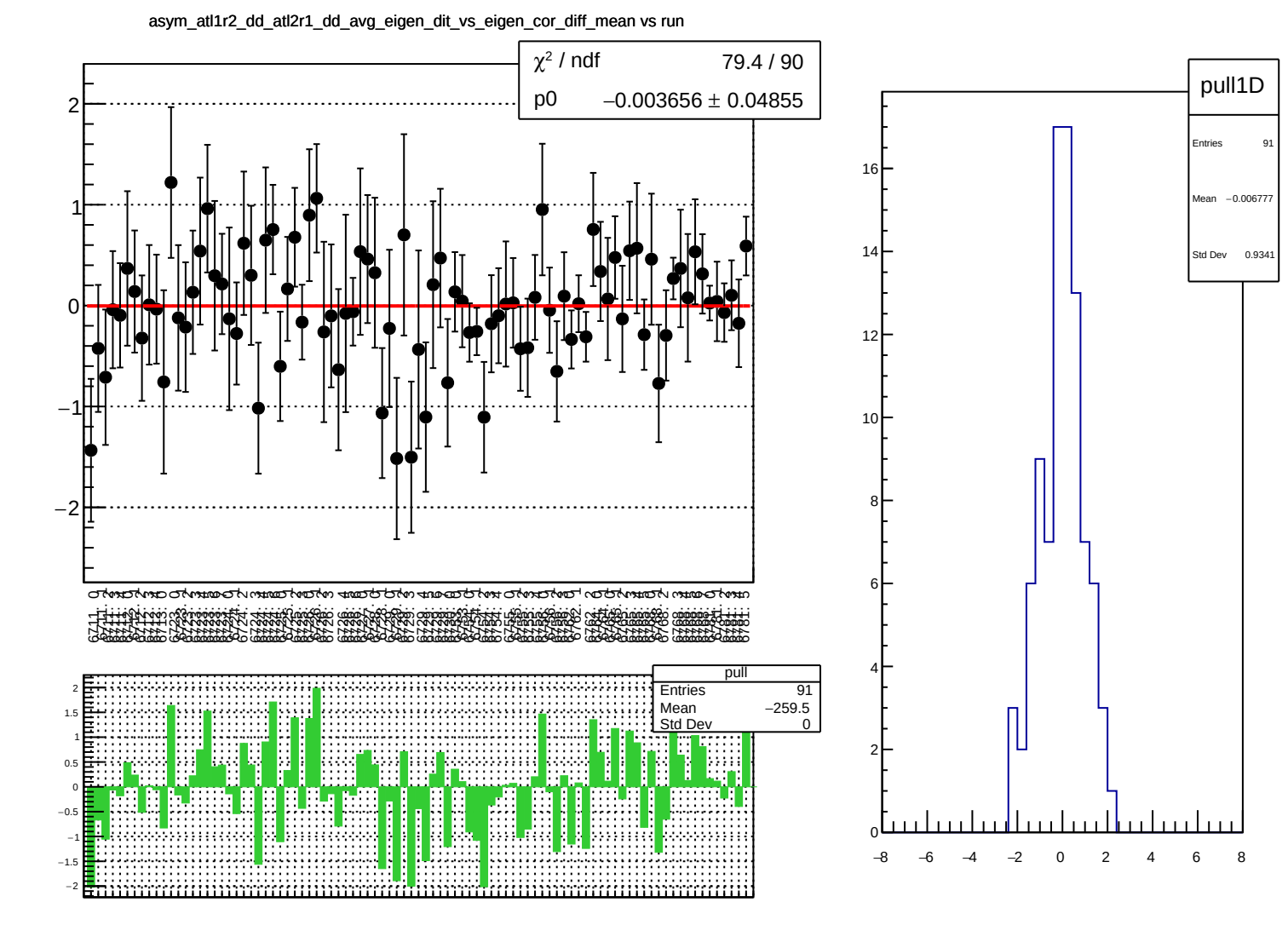

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.624e+05 / 90
p0 42.64 ± 0.03433
100
90
80
70
60
50
40
30
20
10

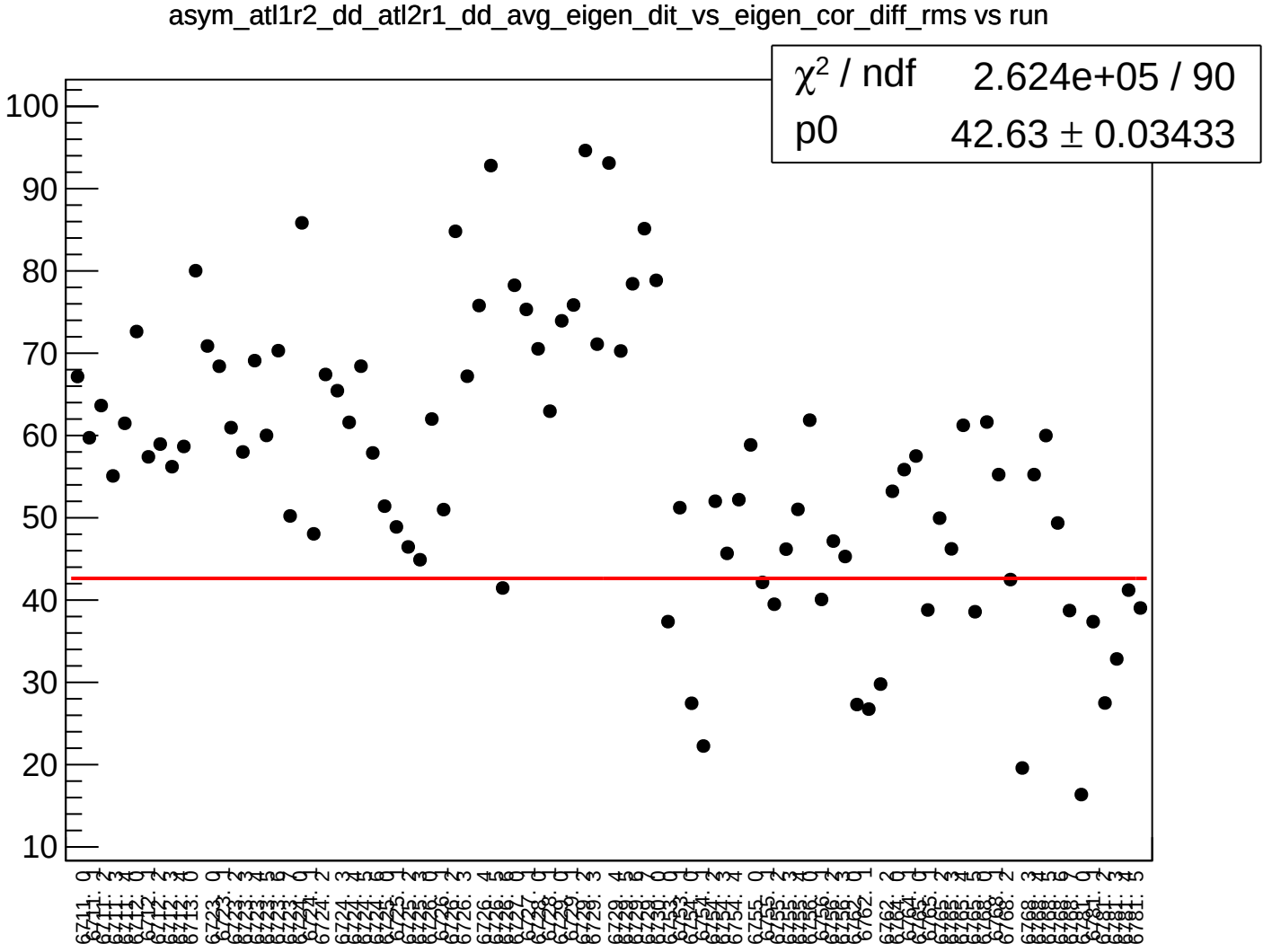

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.95 / 90
p0 −2.722e−06 ± 4.76e−06
pull
Entries 91
Mean 150.4
Std Dev 0
pull1D
Entries 91
Mean 0.008542
Std Dev 0.9831

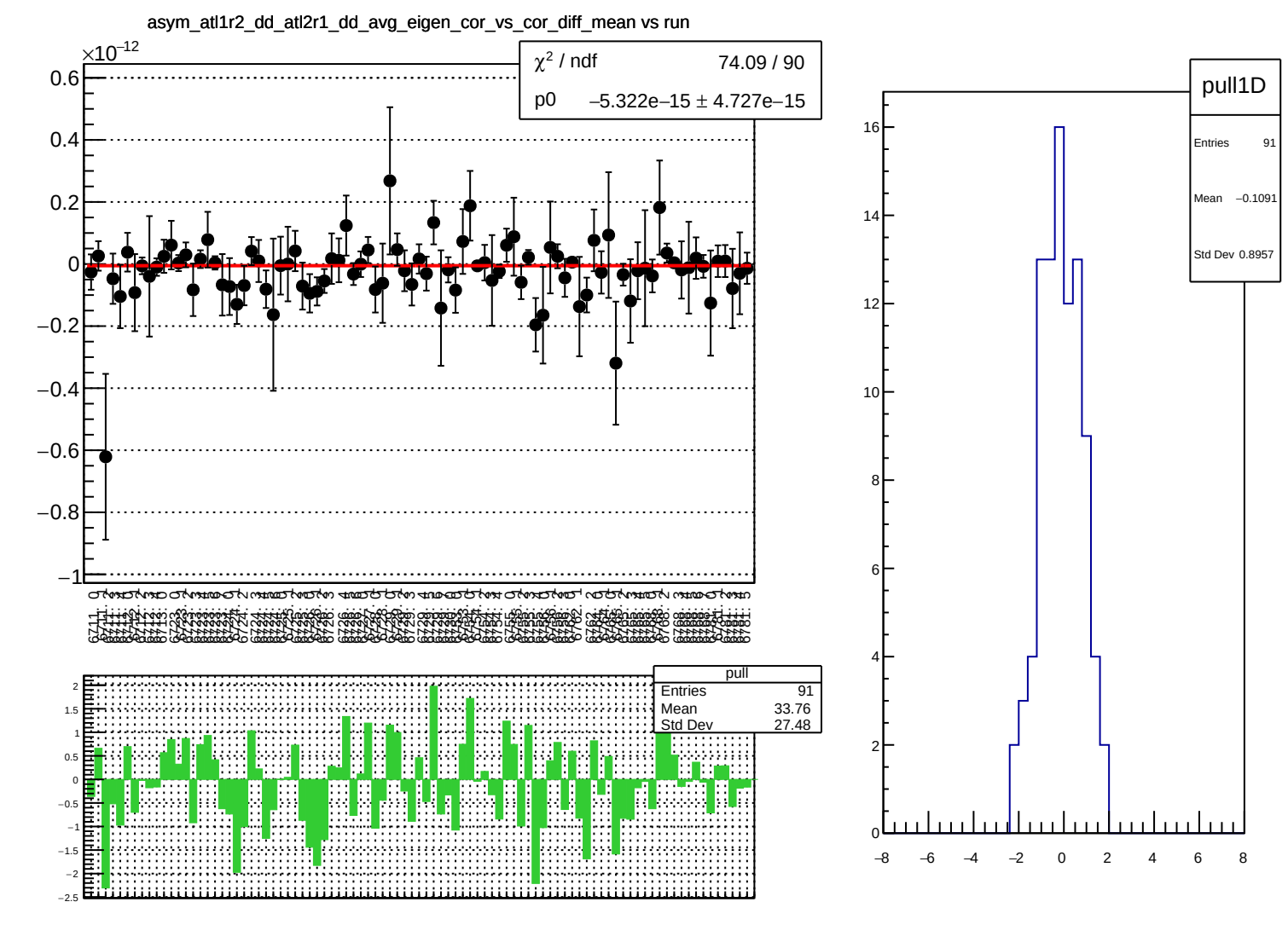

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.212e+05 / 90
p0 0.003661 ± 3.366e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

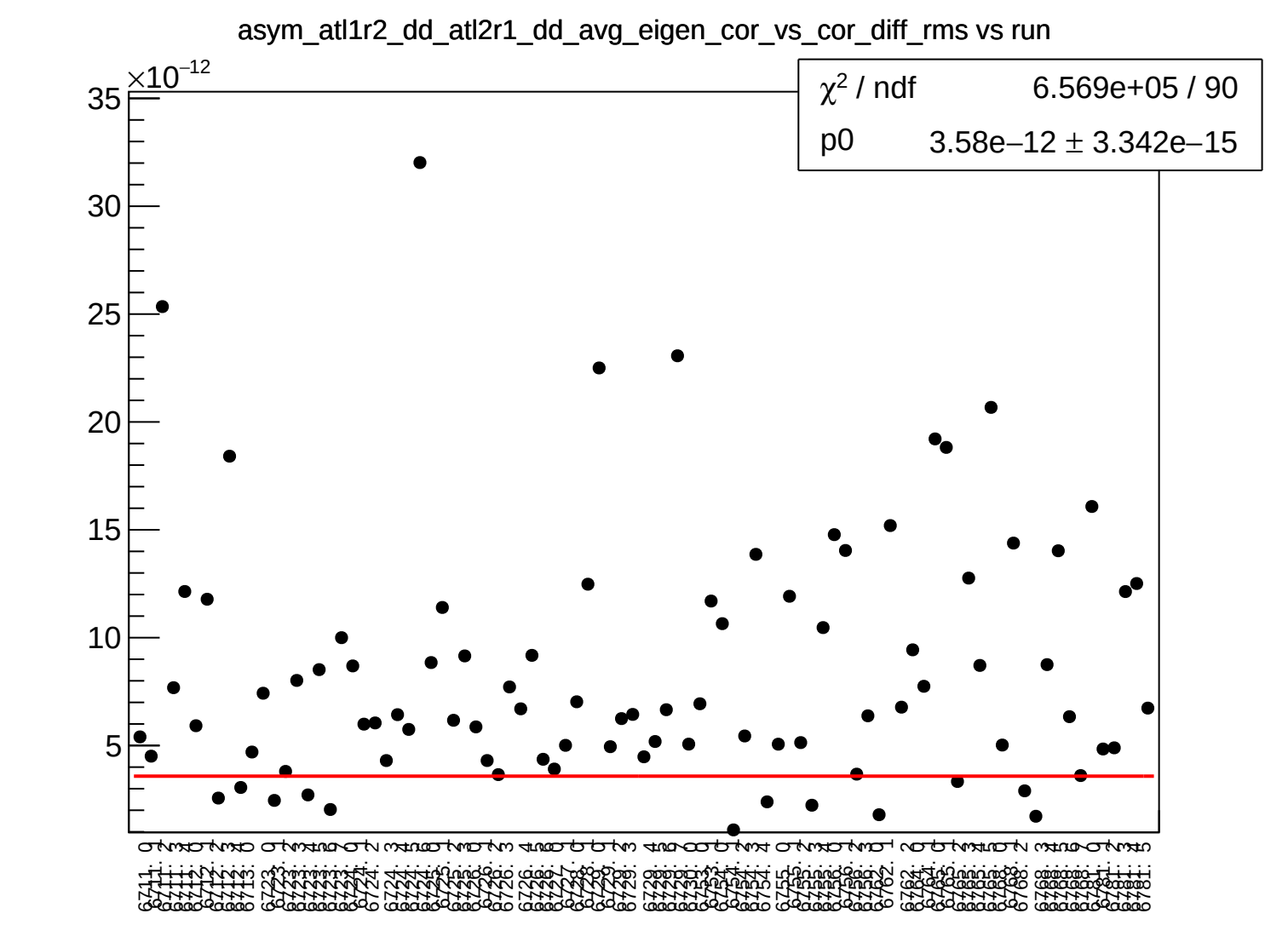

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.4 / 90
p0 −0.003656 ± 0.04855
pull
Entries 91
Mean −259.5
Std Dev 0
pull1D
Entries 91
Mean −0.006777
Std Dev 0.9341

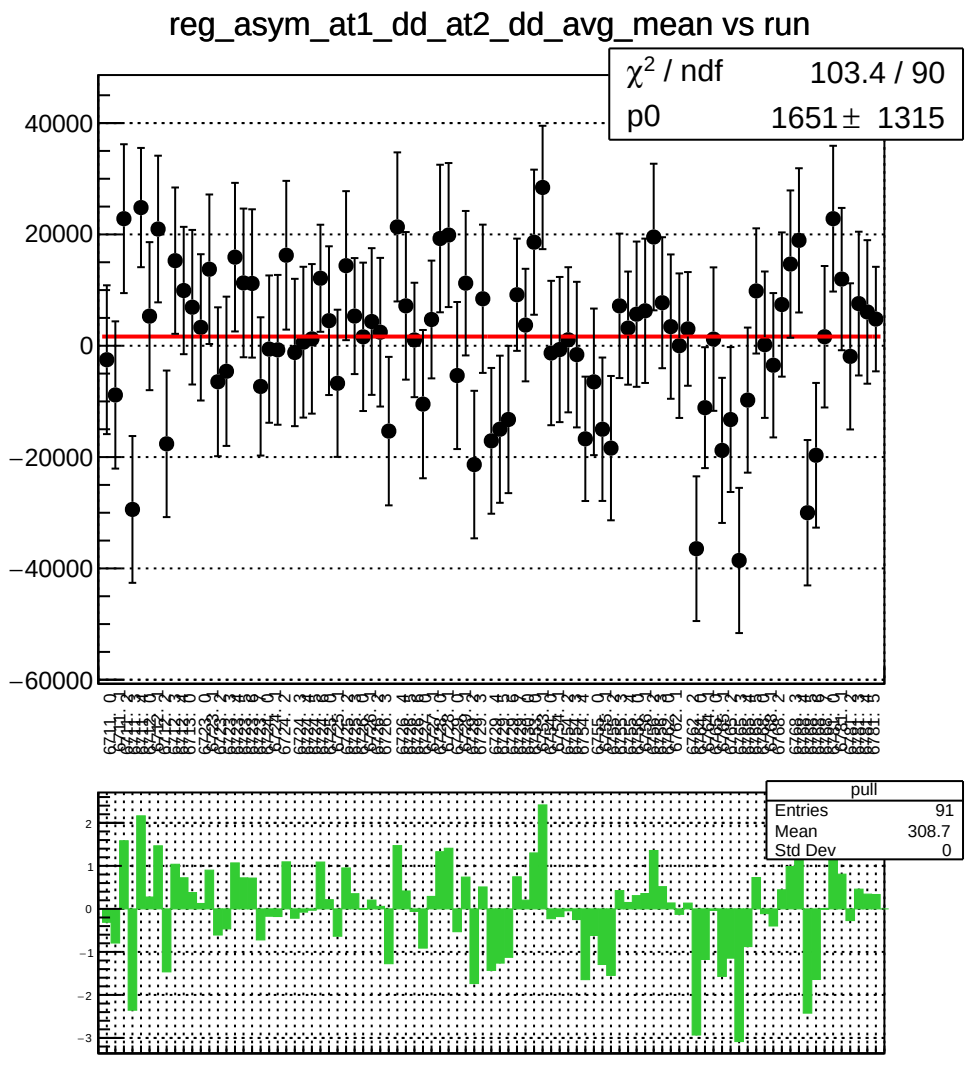

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.624e+05 / 90
p0 42.63 ± 0.03433
100
90
80
70
60
50
40
30
20
10

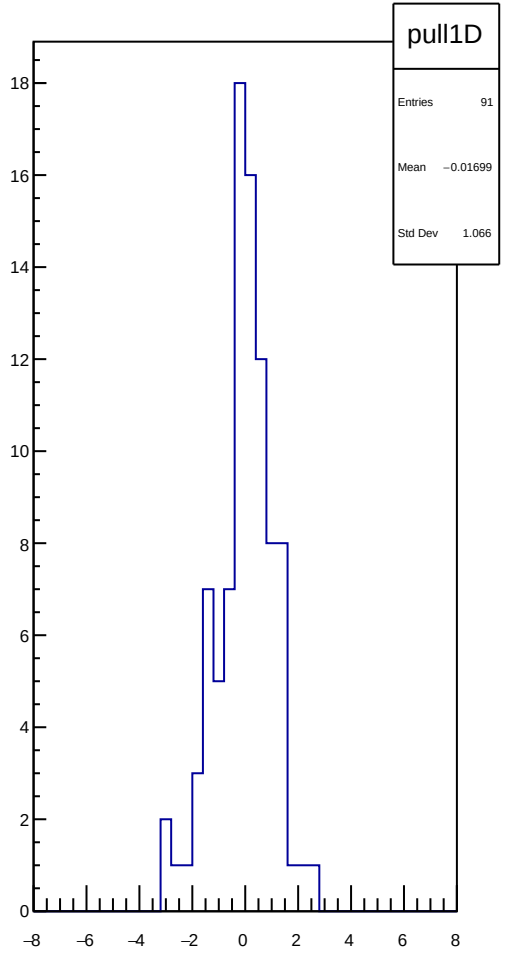

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.4 / 90
p0 −0.003656 ± 0.04855
pull
Entries 91
Mean −259.5
Std Dev 0
pull1D
Entries 91
Mean −0.006777
Std Dev 0.9341

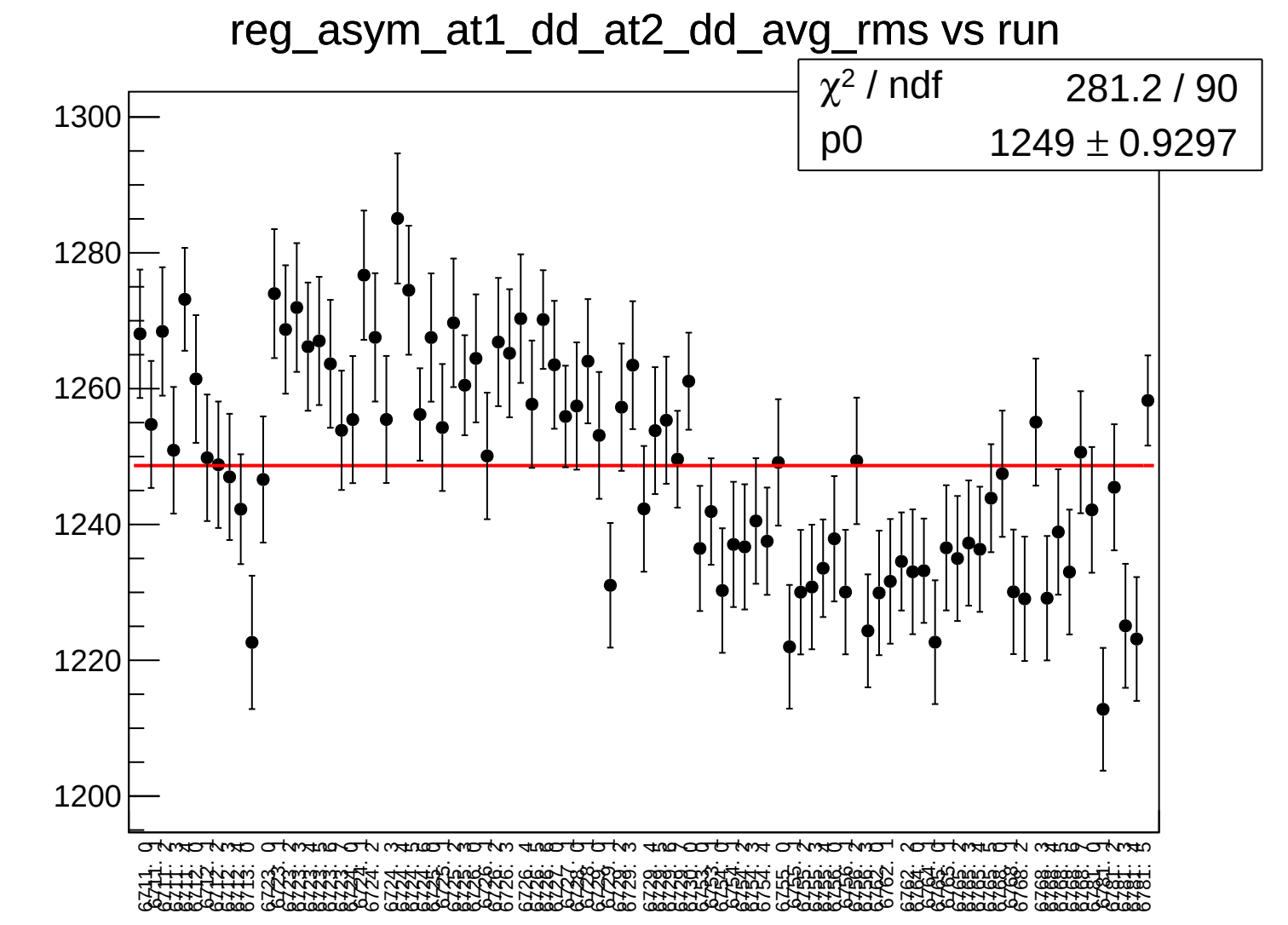

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.624e+05 / 90
p0 42.63 ± 0.03433
100
90
80
70
60
50
40
30
20
10

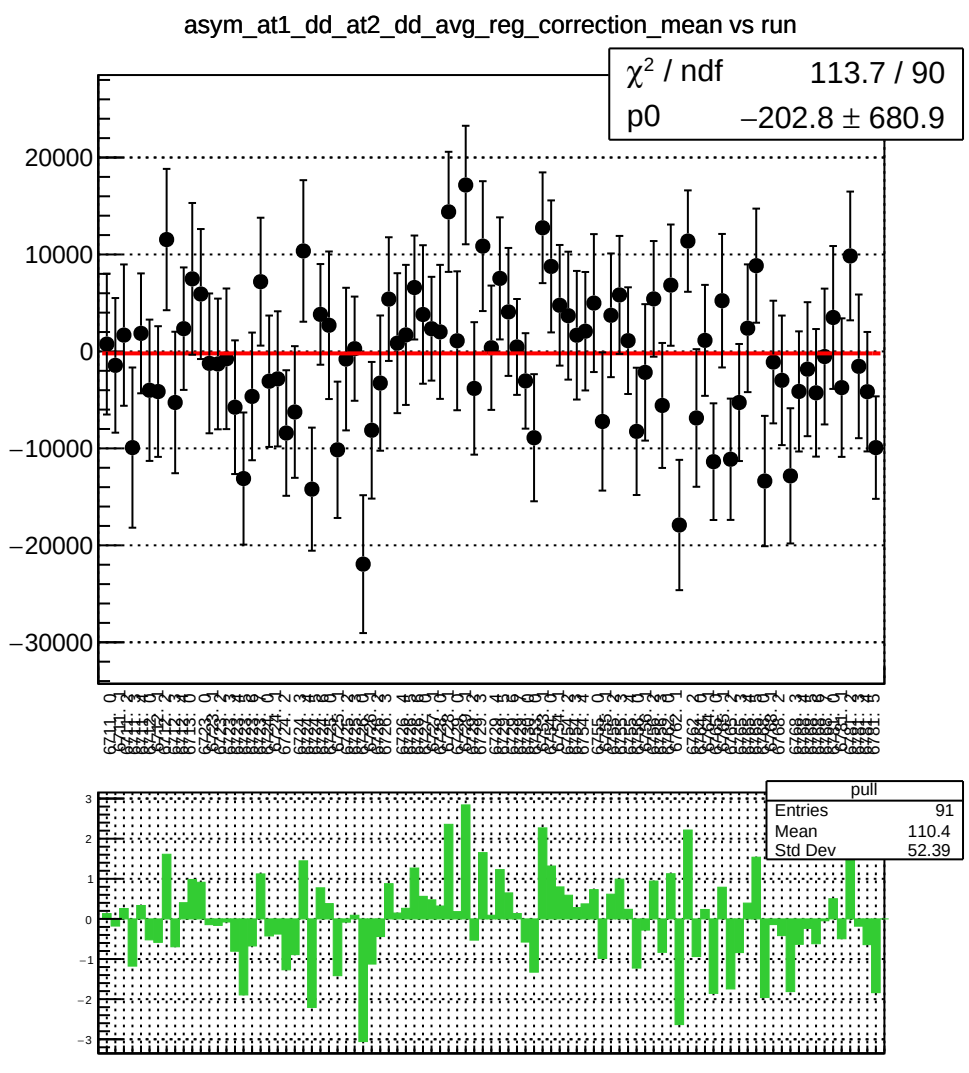

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 74.09 / 90
p0 −5.322e−15 ± 4.727e−15
pull
Entries 91
Mean 33.76
Std Dev 27.48
pull1D
Entries 91
Mean −0.1091
Std Dev 0.8957

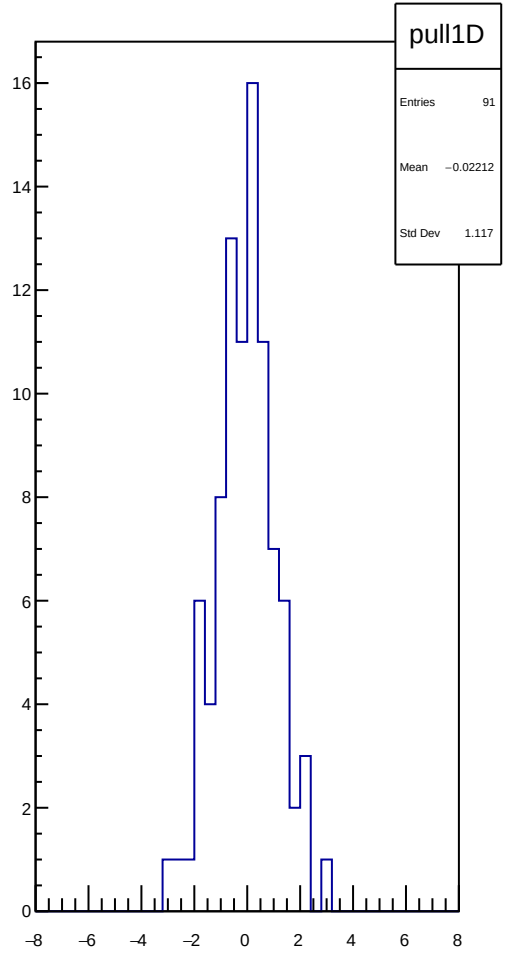

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 6.569e+05 / 90
p0 3.58e−12 ± 3.342e−15
35
30
25
20
15
10
5

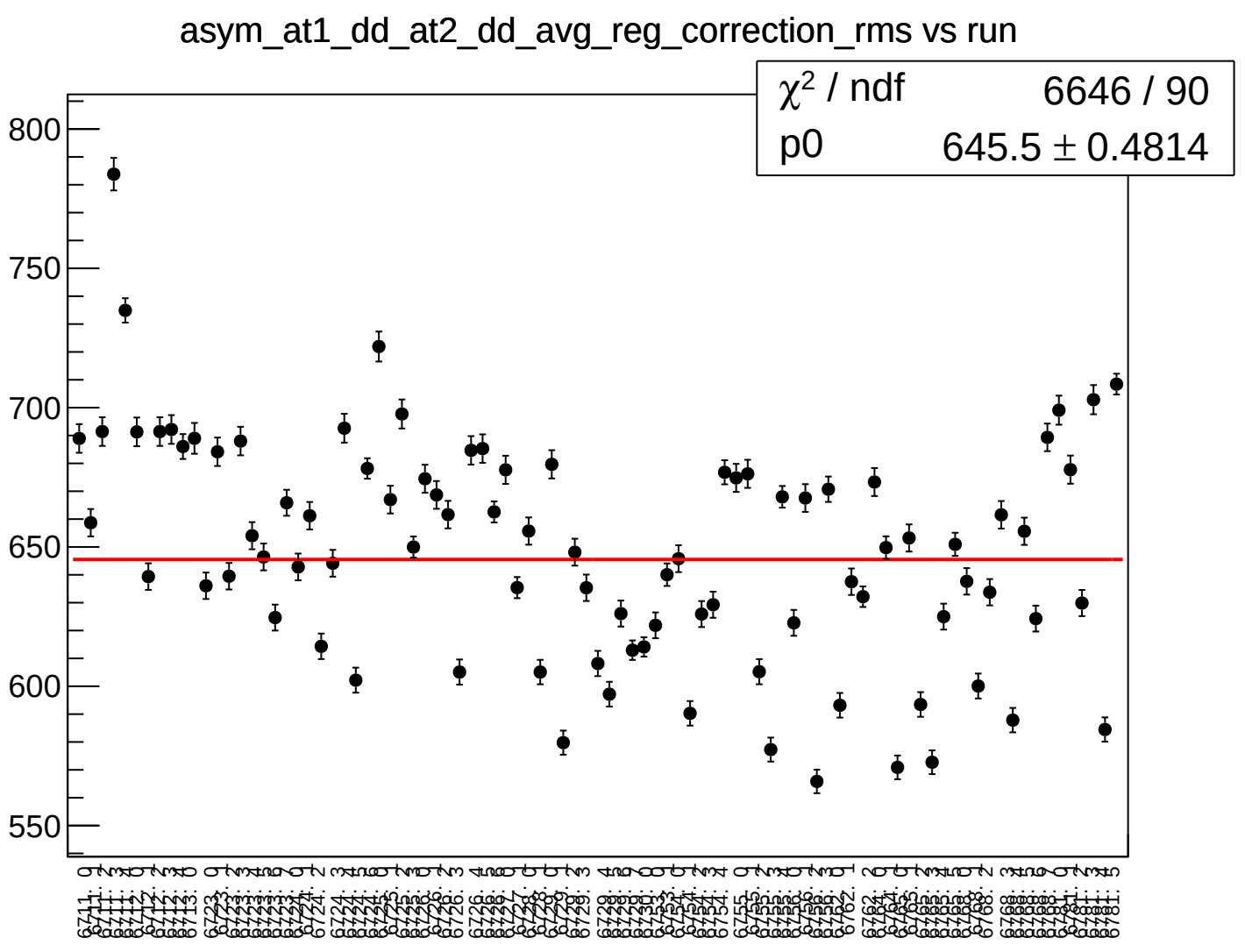

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 103.4 / 90
p0 1651 ± 1315
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 308.7
Std Dev 0
2
1
0
−1
−2
−3

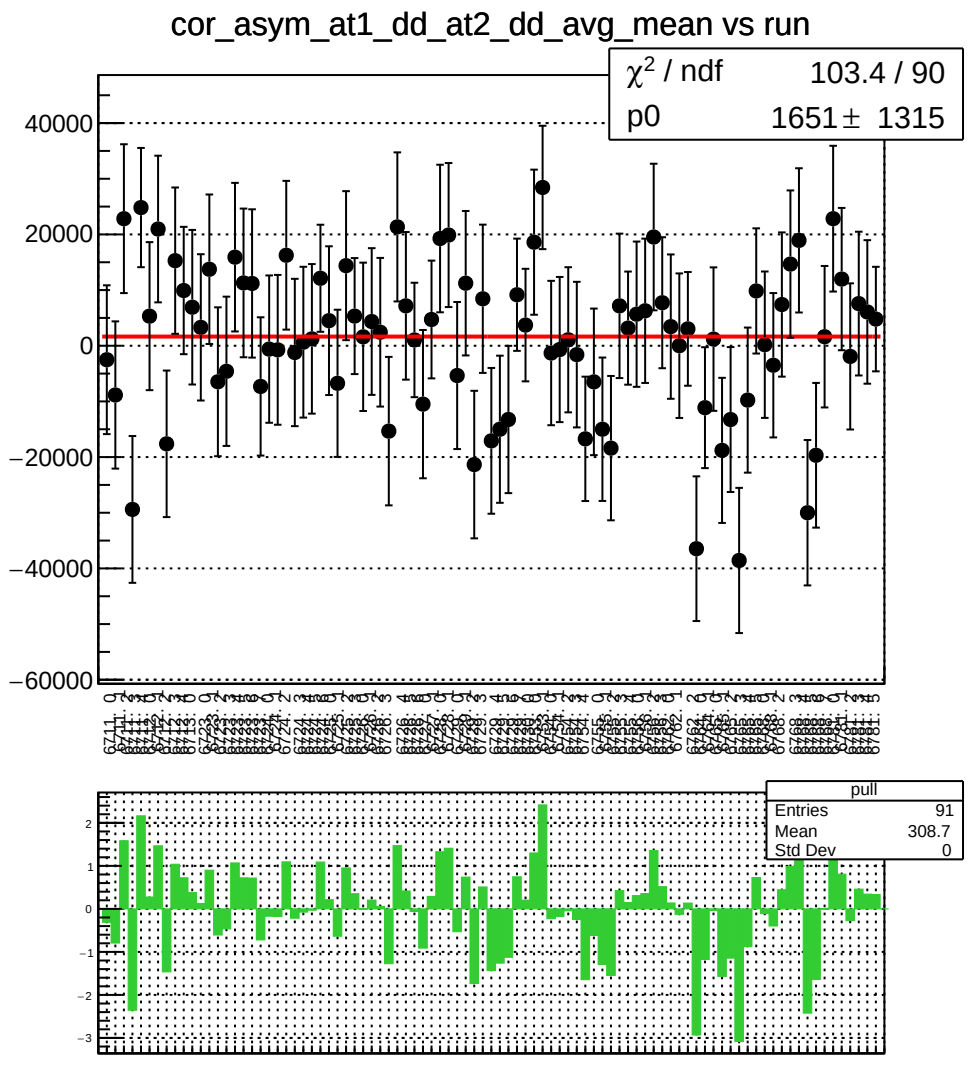

pull1D
Entries 91
Mean −0.01699
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

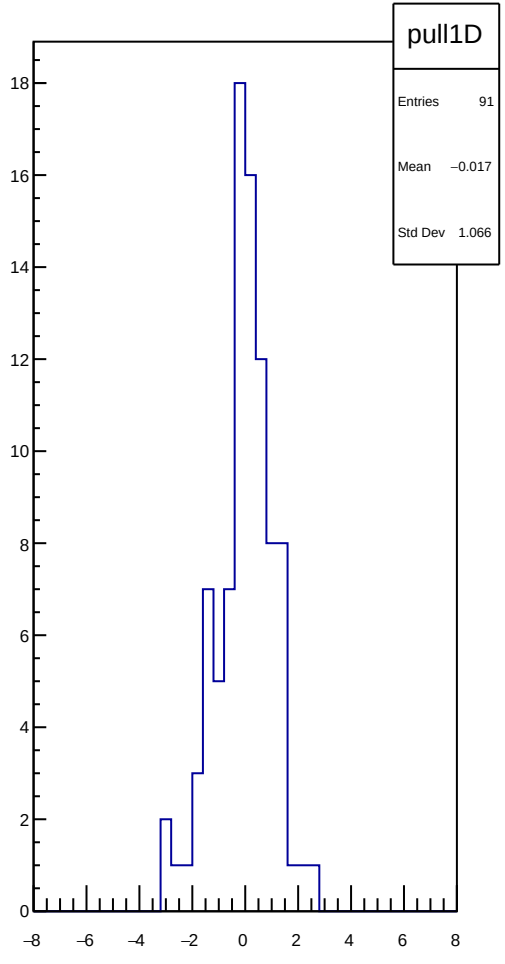

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 281.2 / 90
p0 1249 ± 0.9297
1300
1280
1260
1240
1220
1200

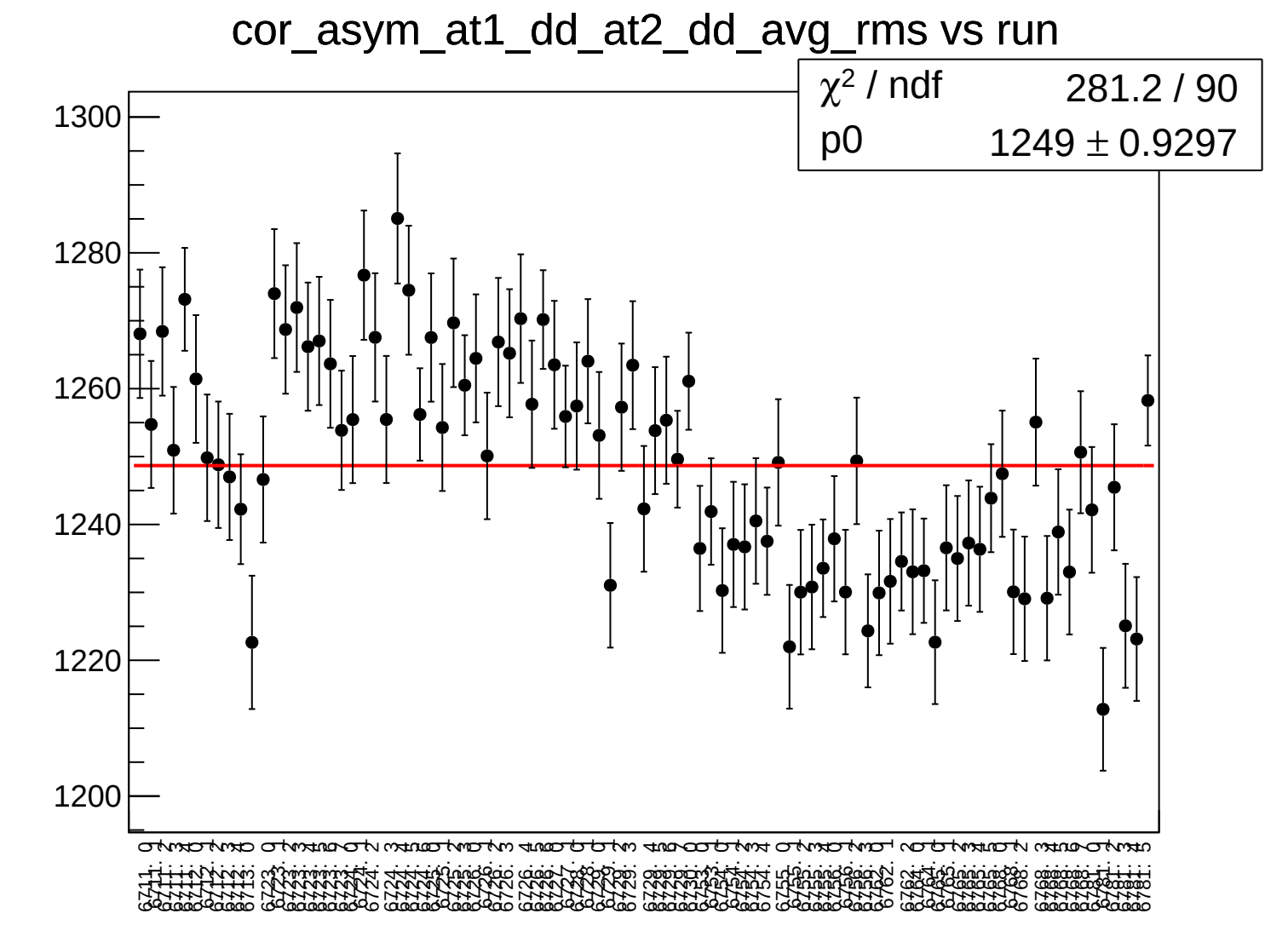

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 113.7 / 90
p0 −202.8 ± 680.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 110.4
Std Dev 52.39
3
2
1
0
−1
−2
−3

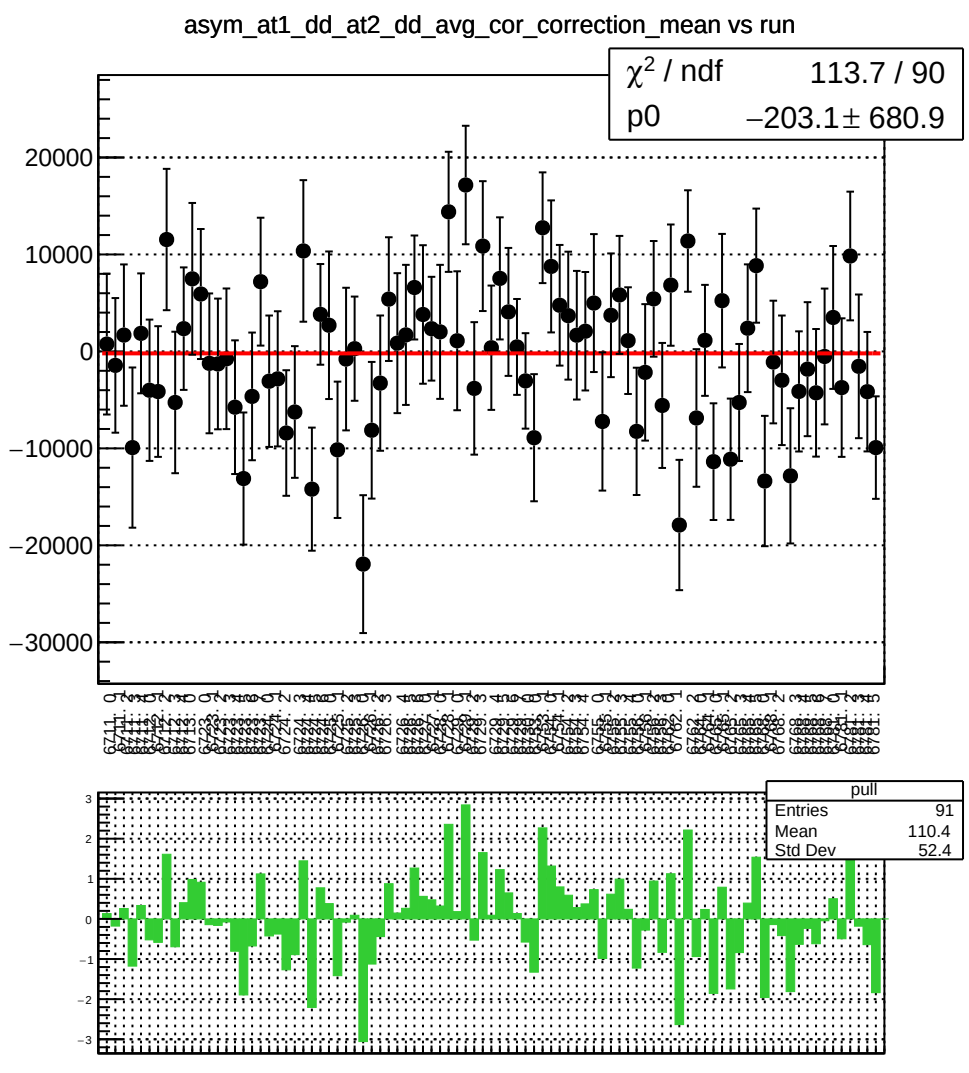

pull1D
Entries 91
Mean −0.02212
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

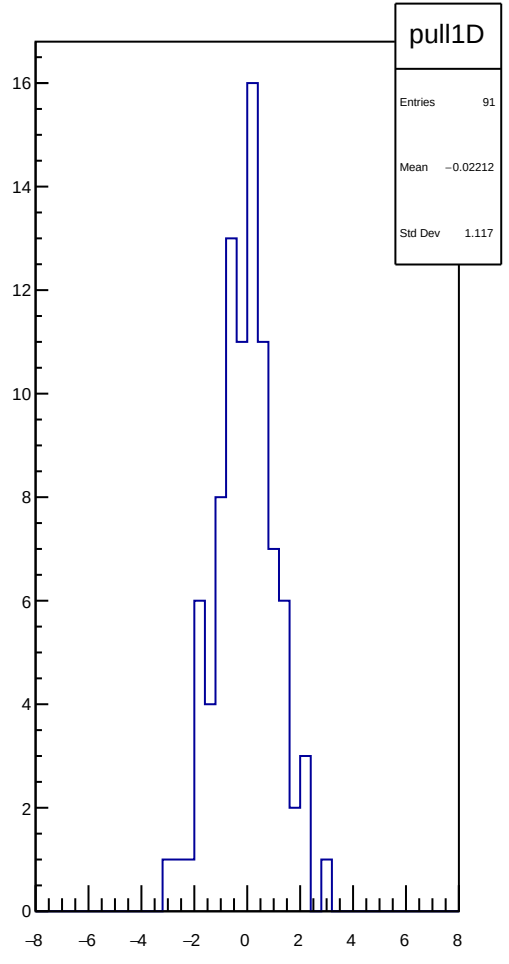

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 6646 / 90
p0 645.5 ± 0.4814
800
750
700
650
600
550

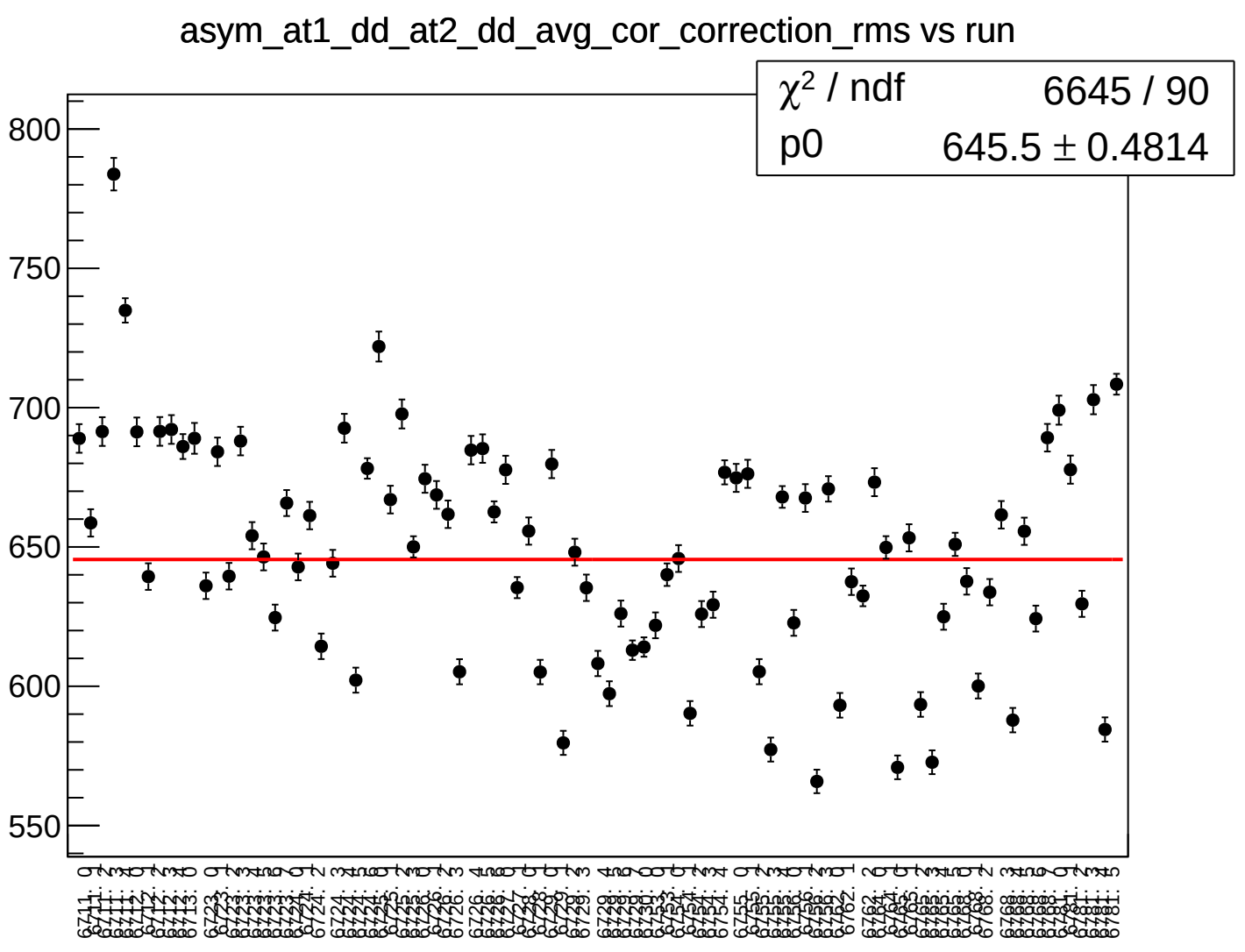

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 103.4 / 90
p0 1651 ± 1315
pull
Entries 91
Mean 308.7
Std Dev 0

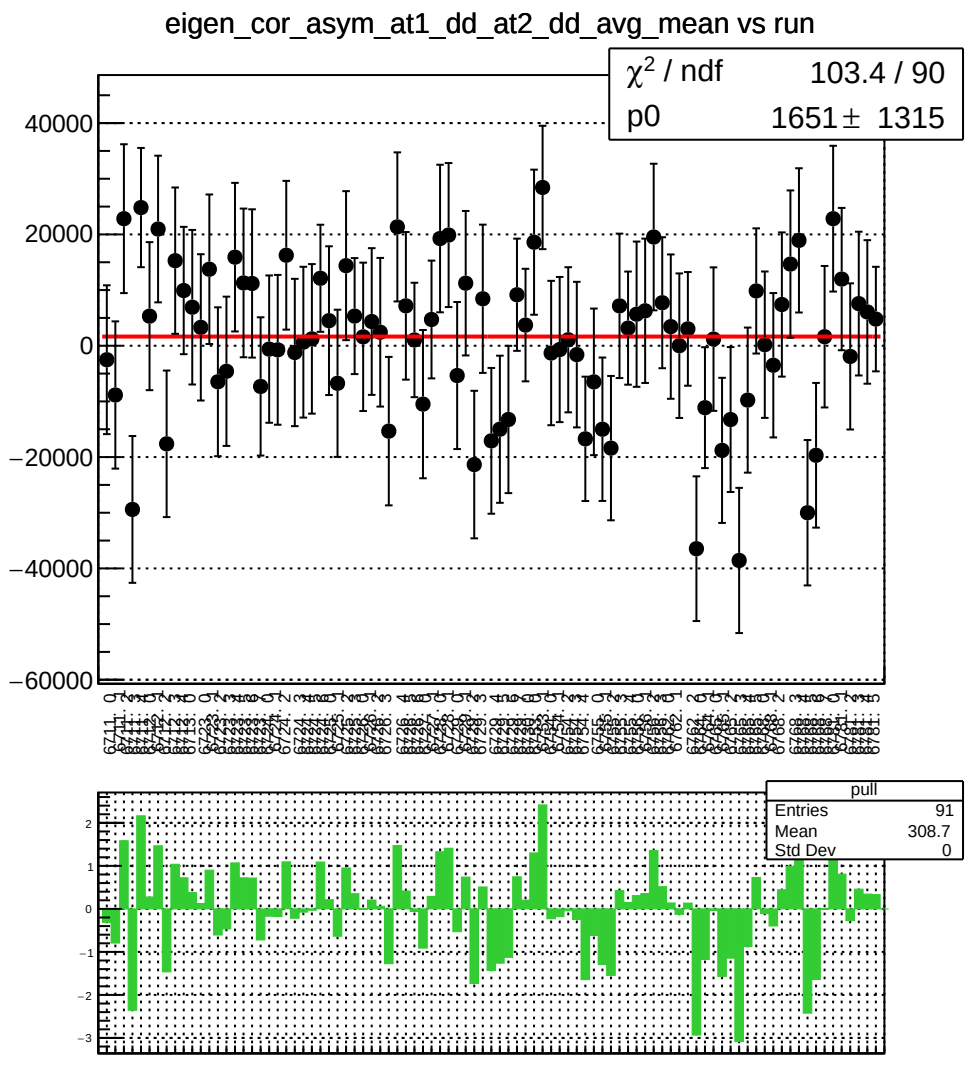

pull1D
Entries 91
Mean −0.017
Std Dev 1.066

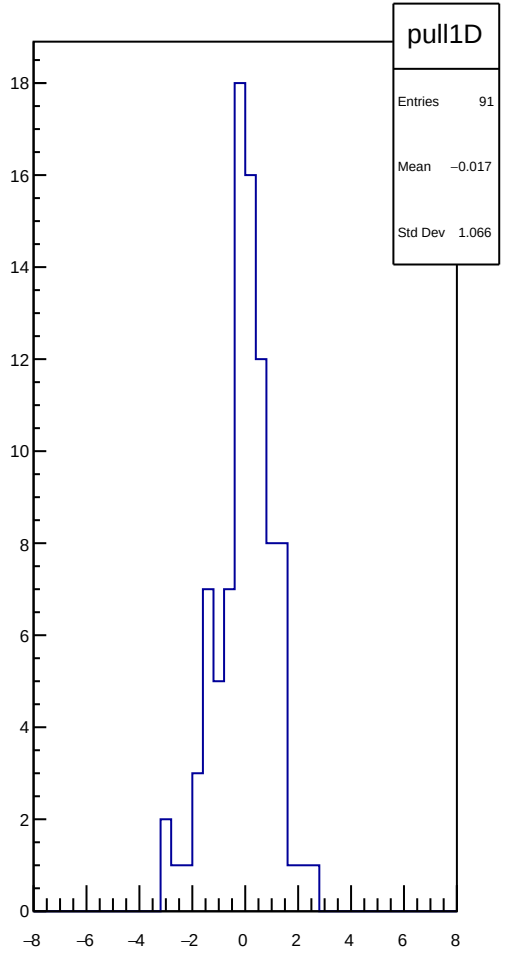

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 281.2 / 90
p0 1249 ± 0.9297
1300
1280
1260
1240
1220
1200


asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 113.7 / 90
p0 −203.1± 680.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 110.4
Std Dev 52.4
3
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean −0.02212
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 6645 / 90
p0 645.5 ± 0.4814
800
750
700
650
600
550


eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 103.4 / 90
p0 1651 ± 1315
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 308.7
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean −0.017
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
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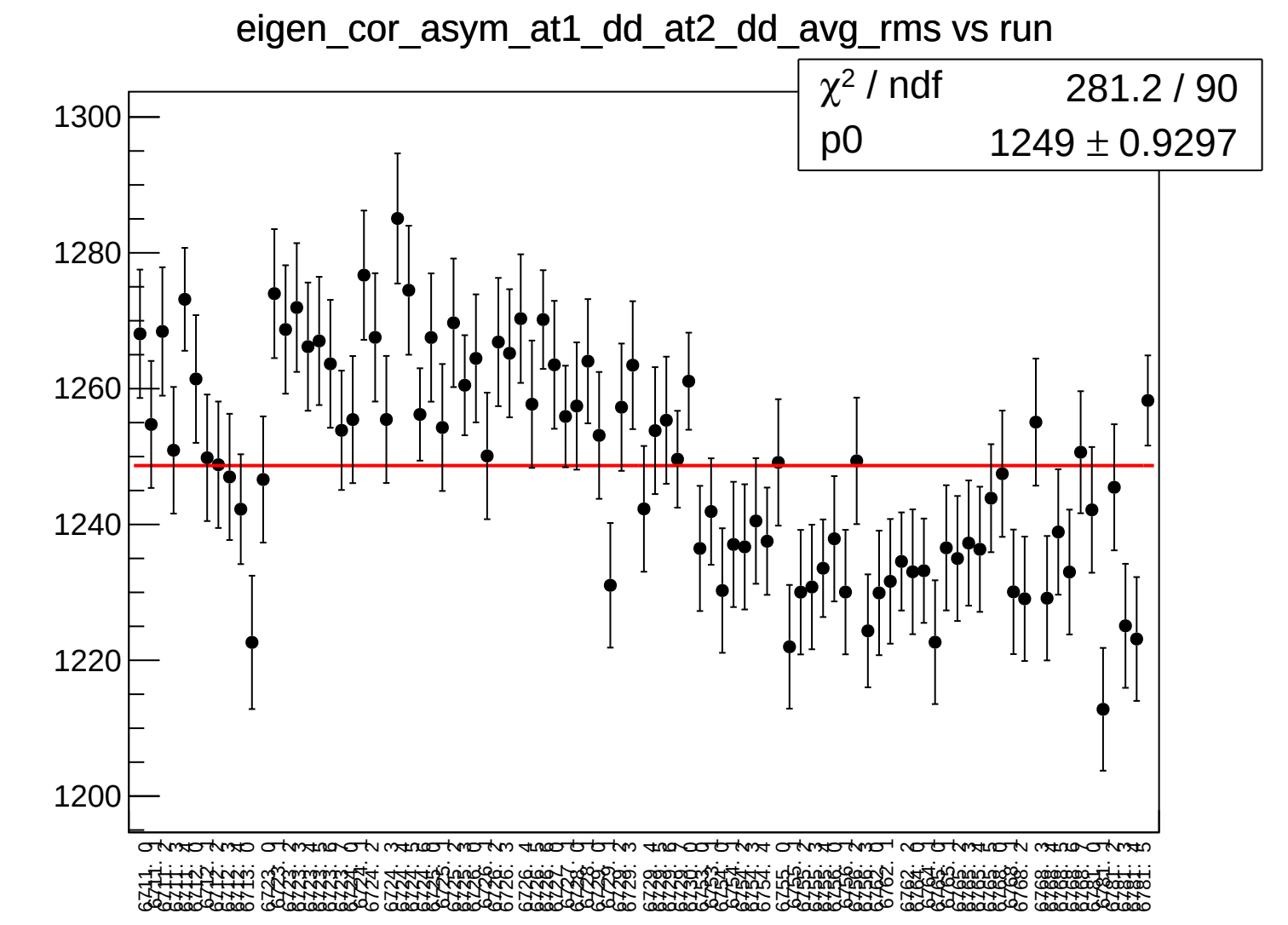
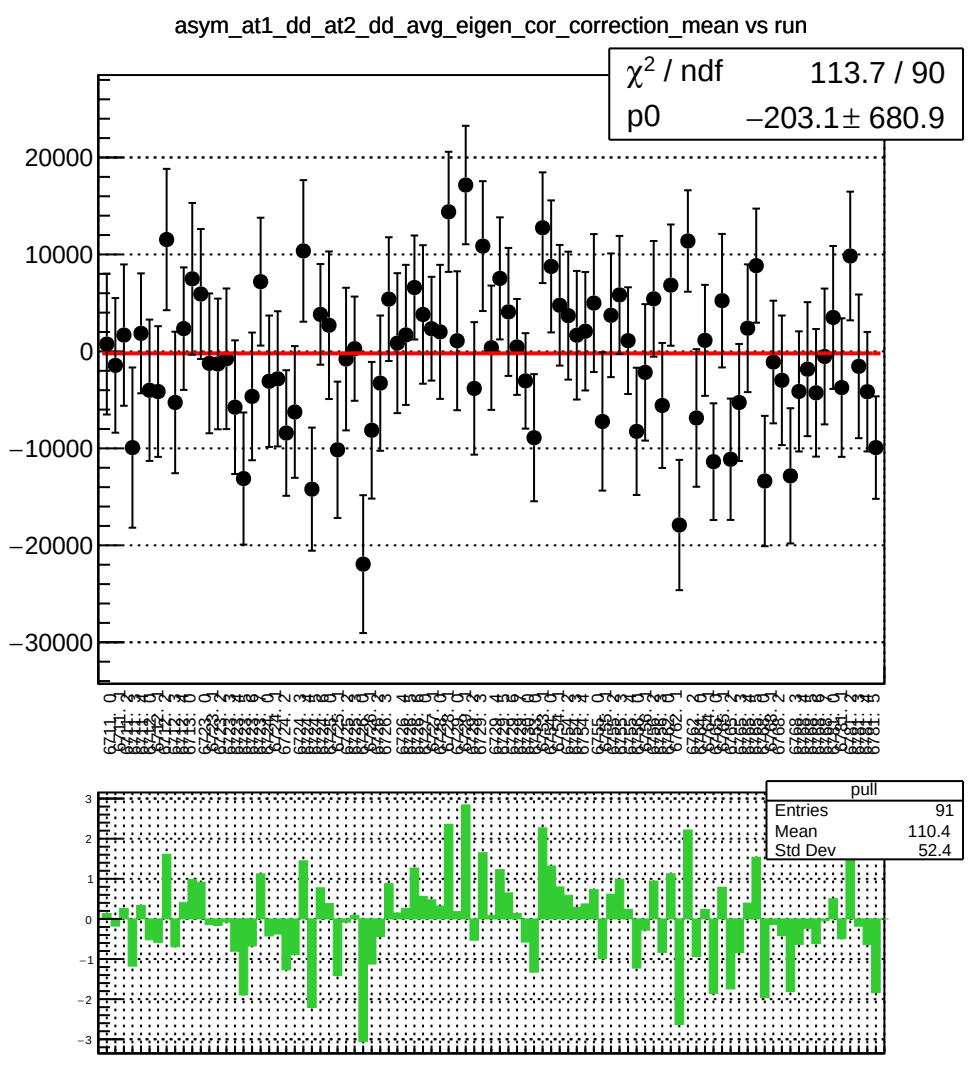
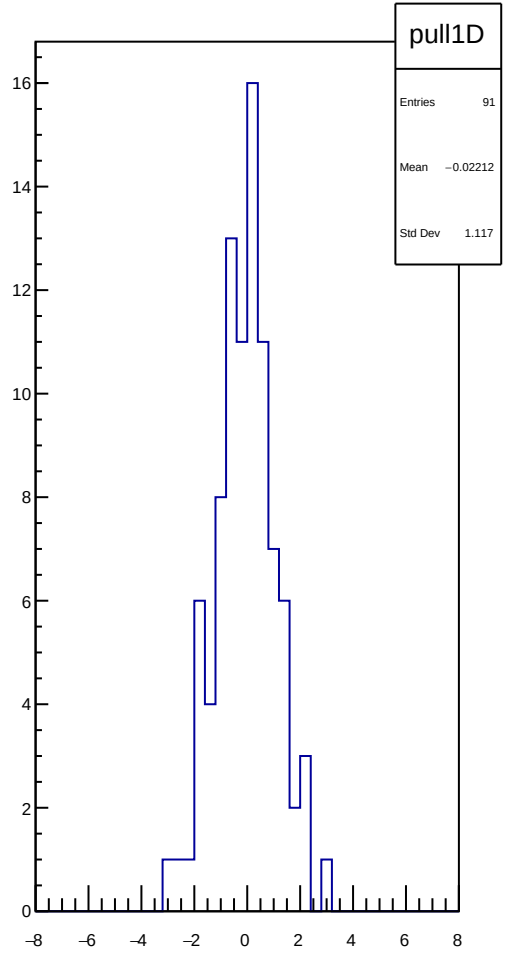
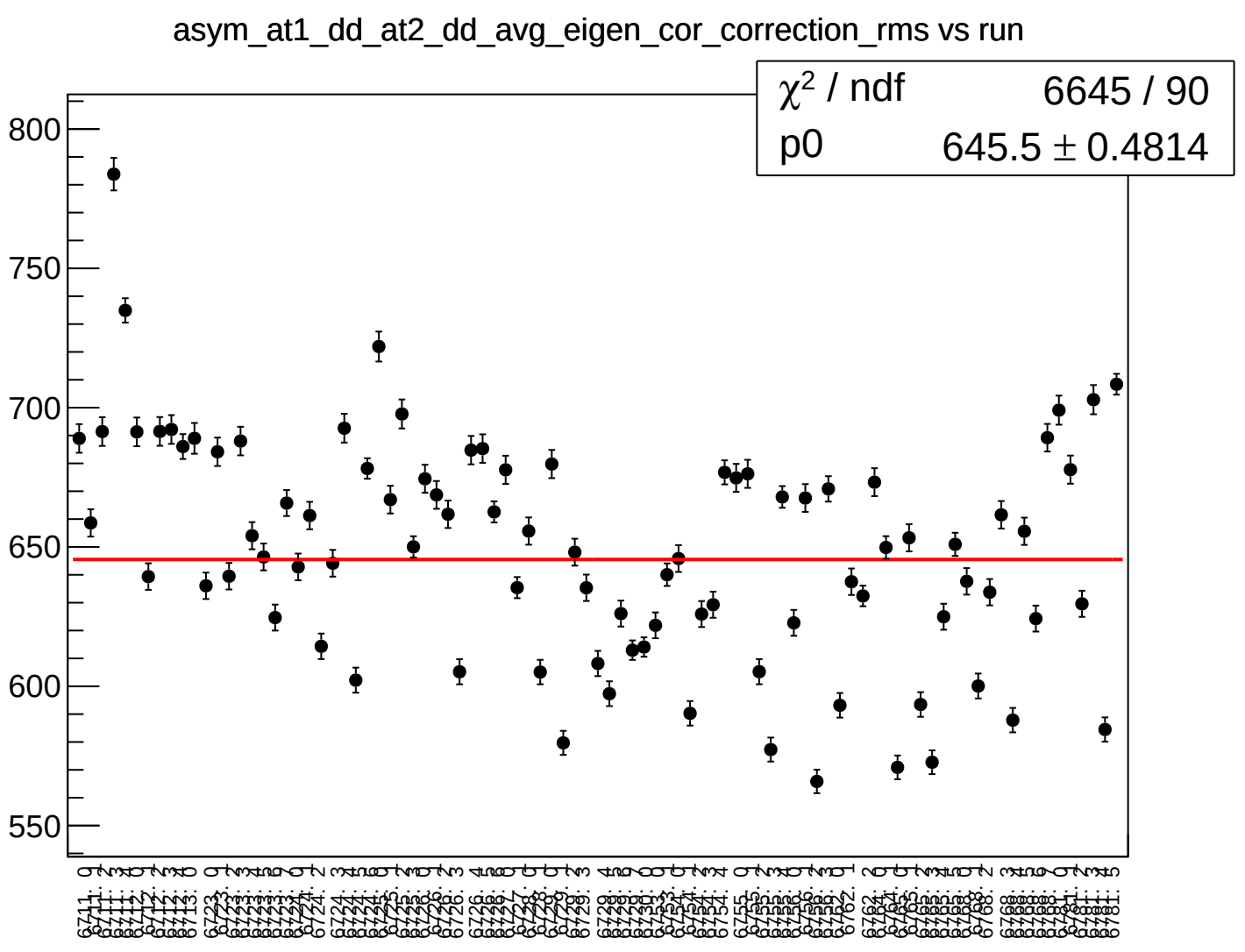
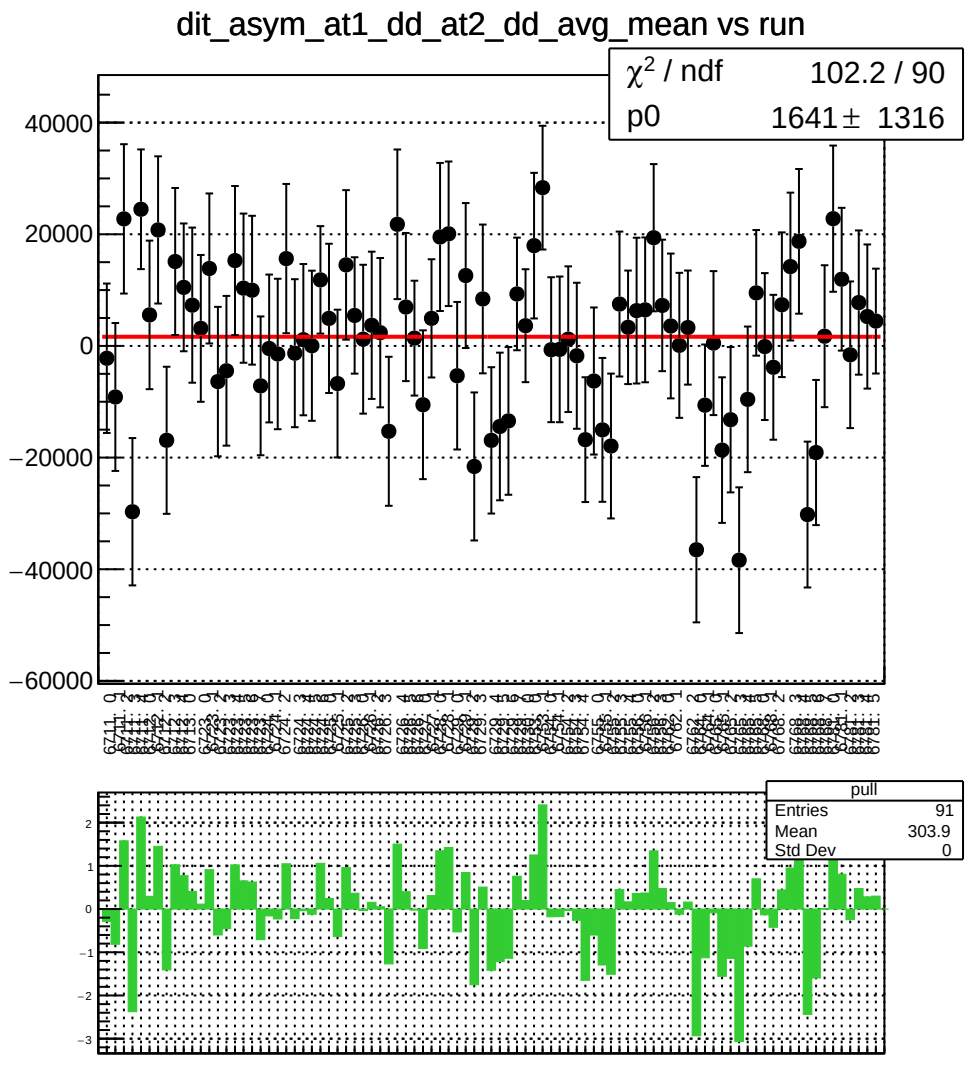
0
2
4
6
8

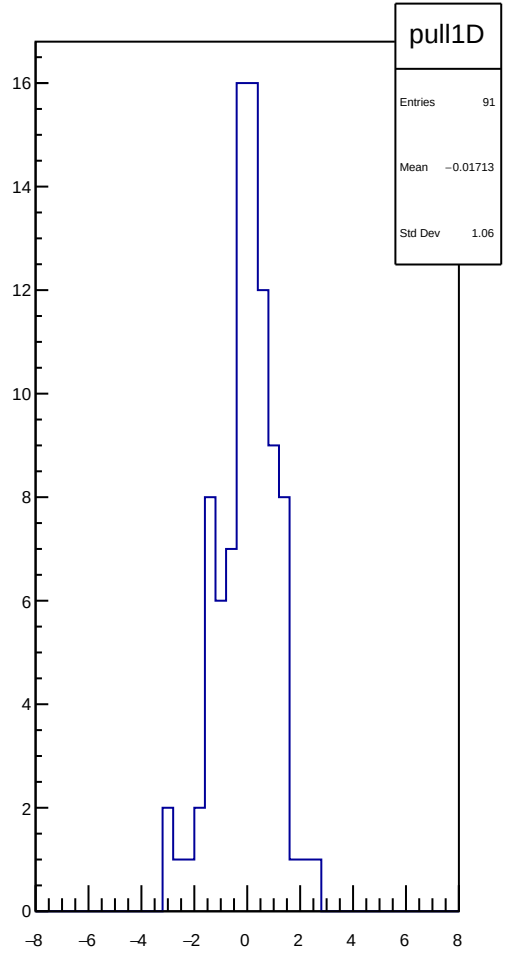

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 281.2 / 90
p0 1249 ± 0.9297
1300
1280
1260
1240
1220
1200

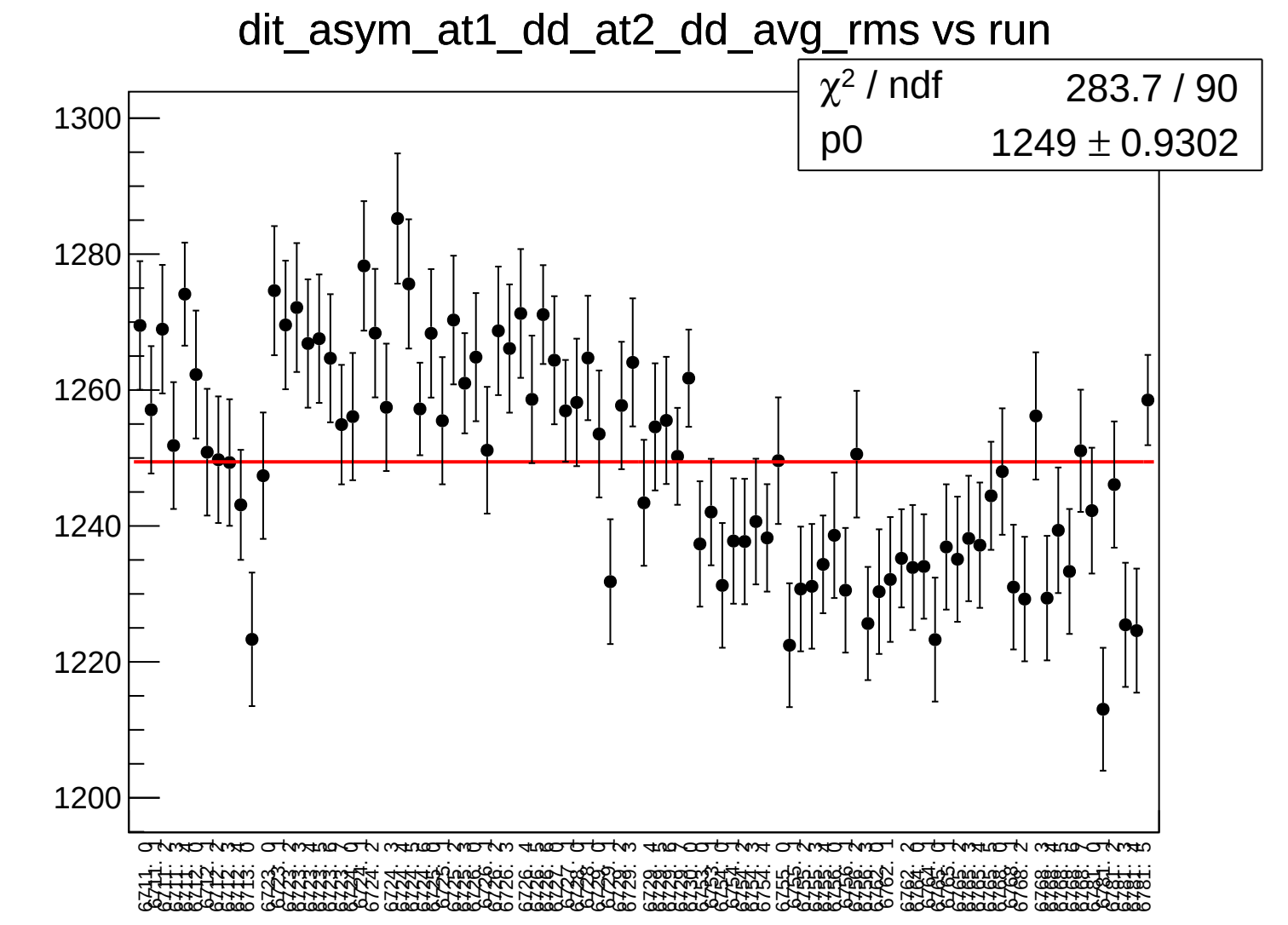

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 113.7 / 90
p0 −203.1± 680.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 110.4
Std Dev 52.4
3
2
1
0
−1
−2
−3

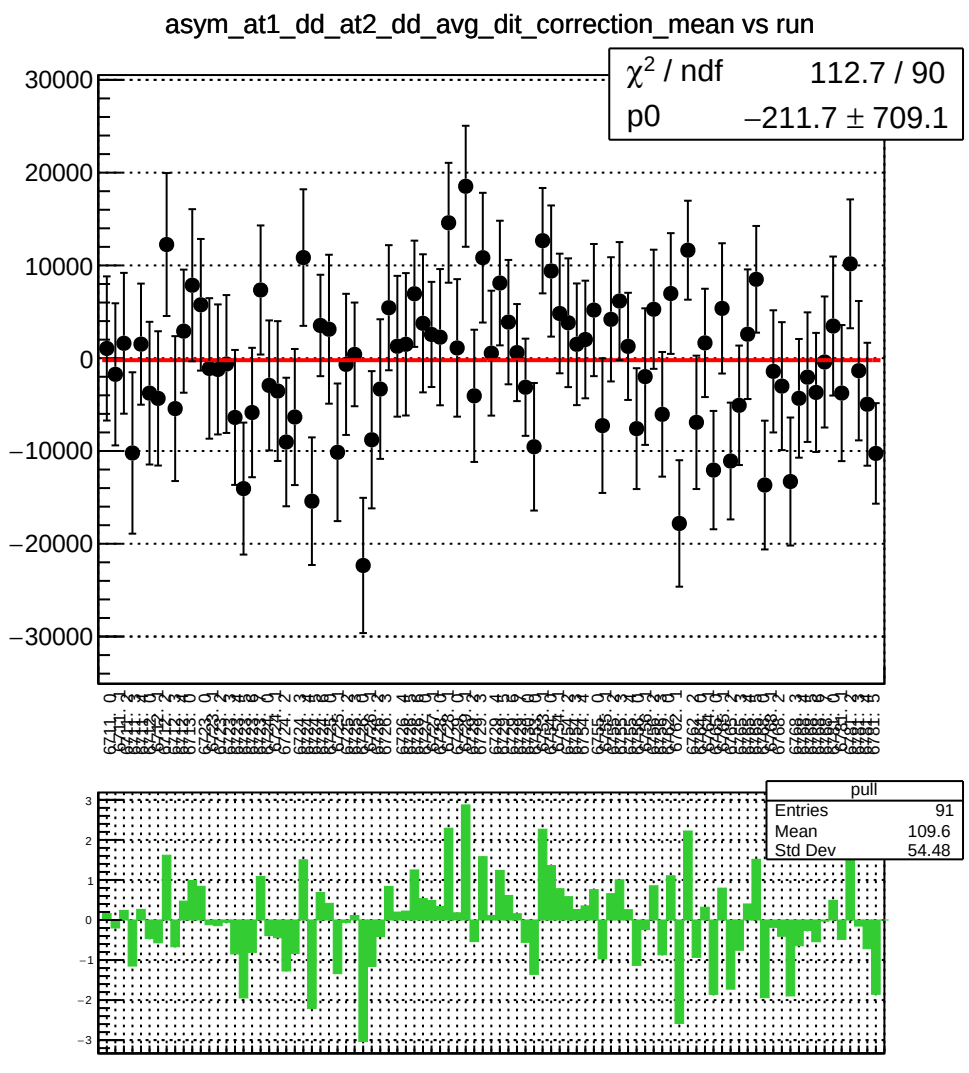

pull1D
Entries 91
Mean −0.02212
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

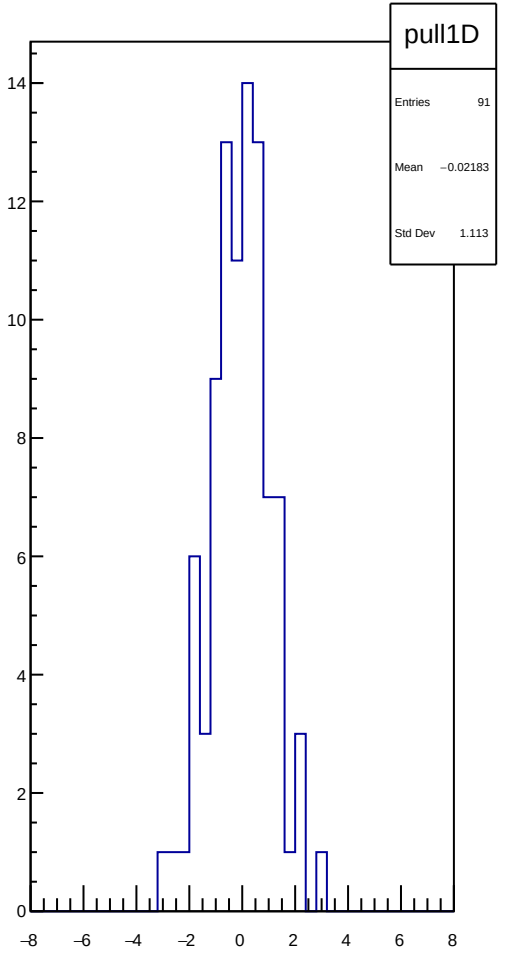

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6645 / 90
p0 645.5 ± 0.4814
800
750
700
650
600
550

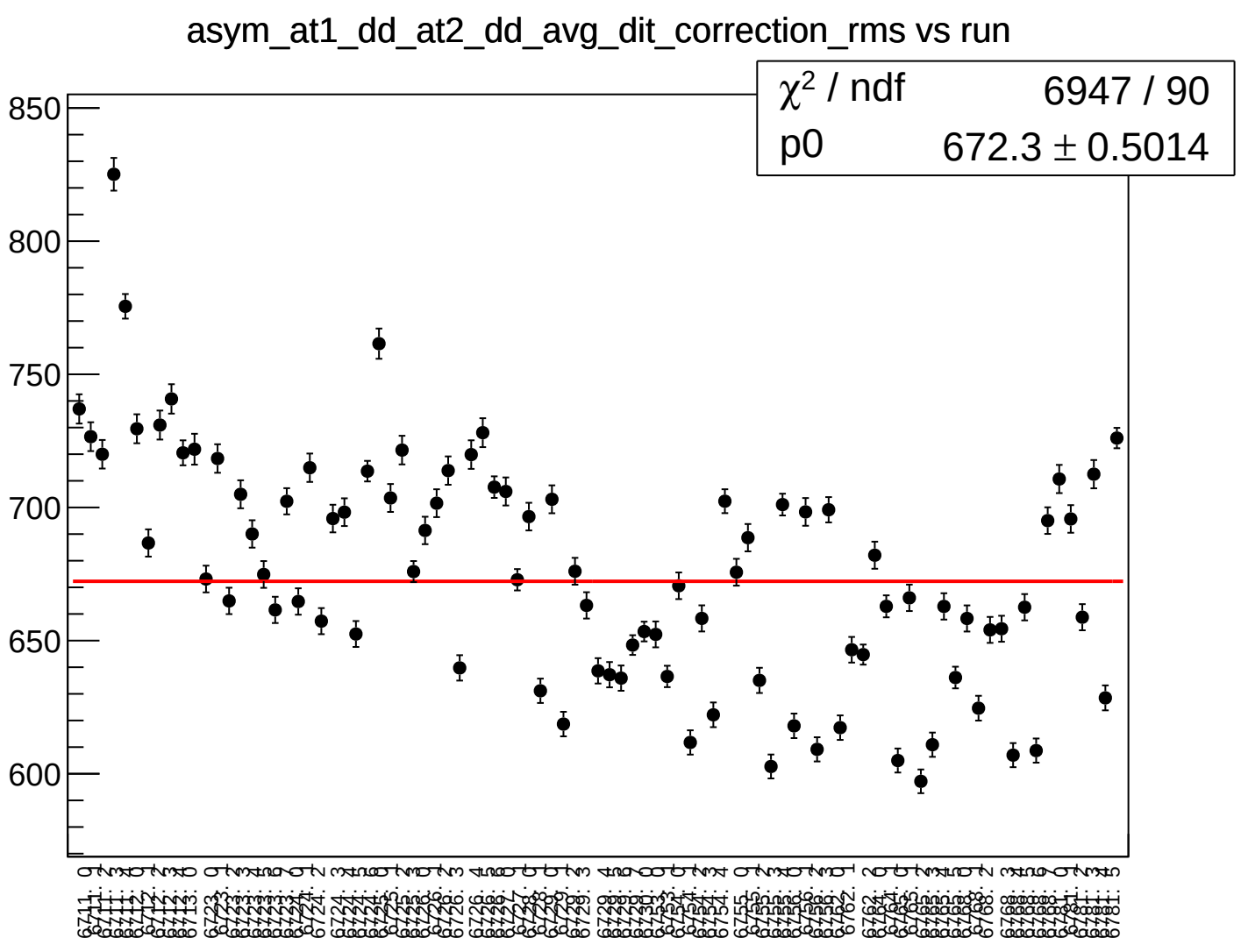

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 102.2 / 90
p0 1641 ± 1316
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 303.9
Std Dev 0
2
1
0
−1
−2
−3

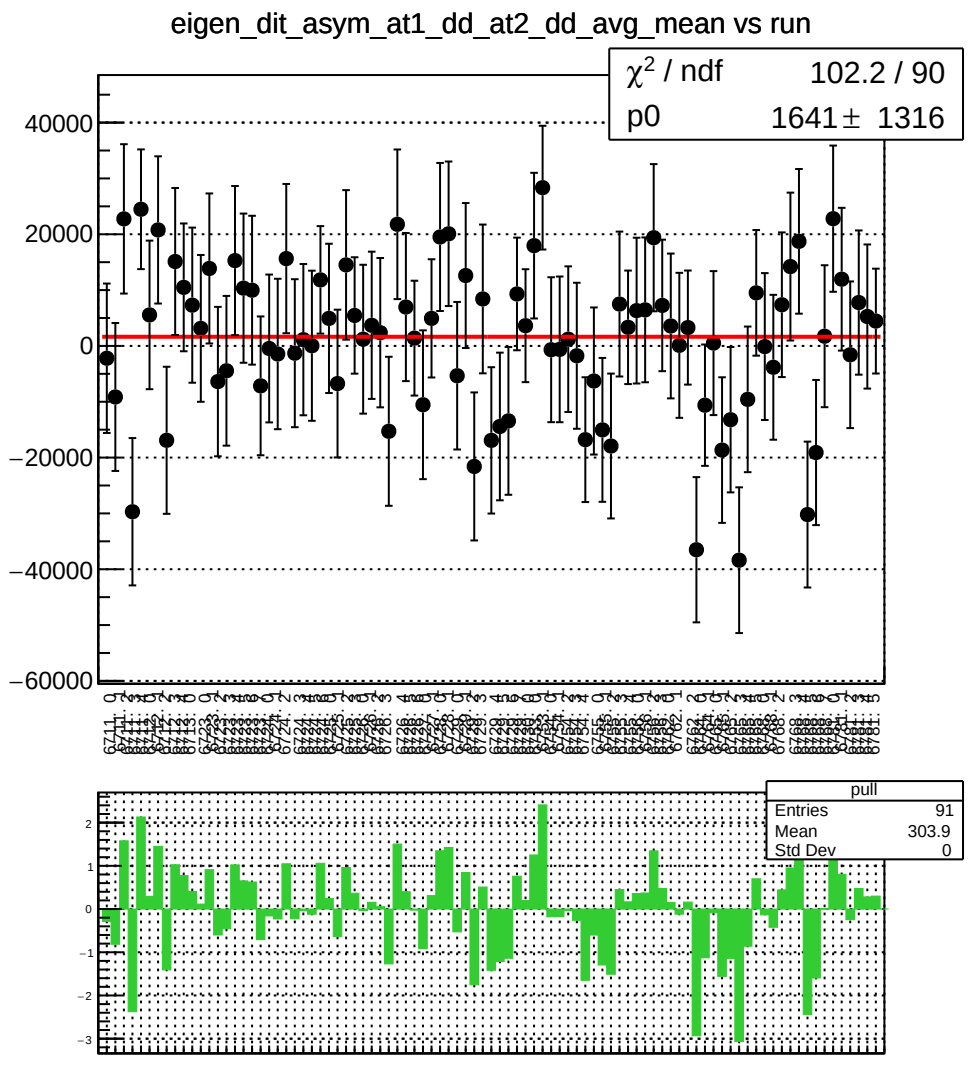

pull1D
Entries 91
Mean −0.01713
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

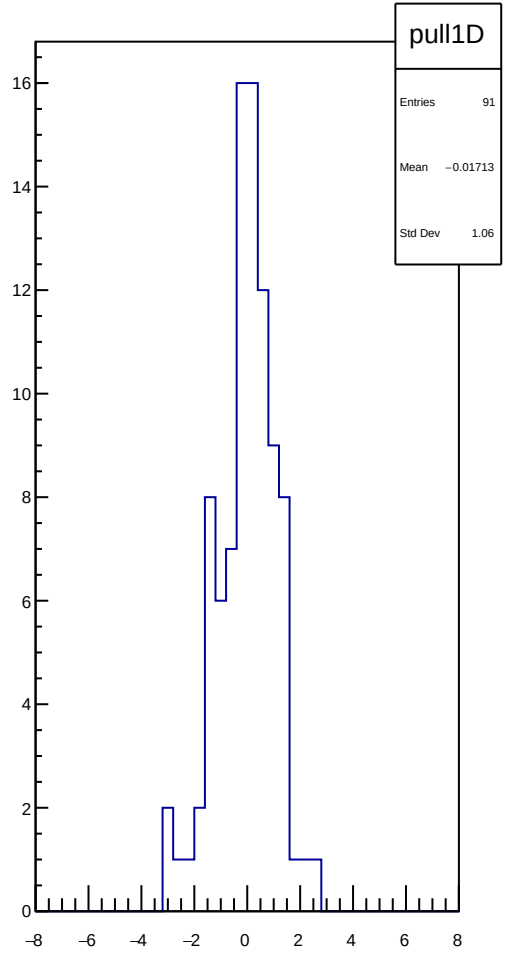

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 283.7 / 90
p0 1249 ± 0.9302
1300
1280
1260
1240
1220
1200

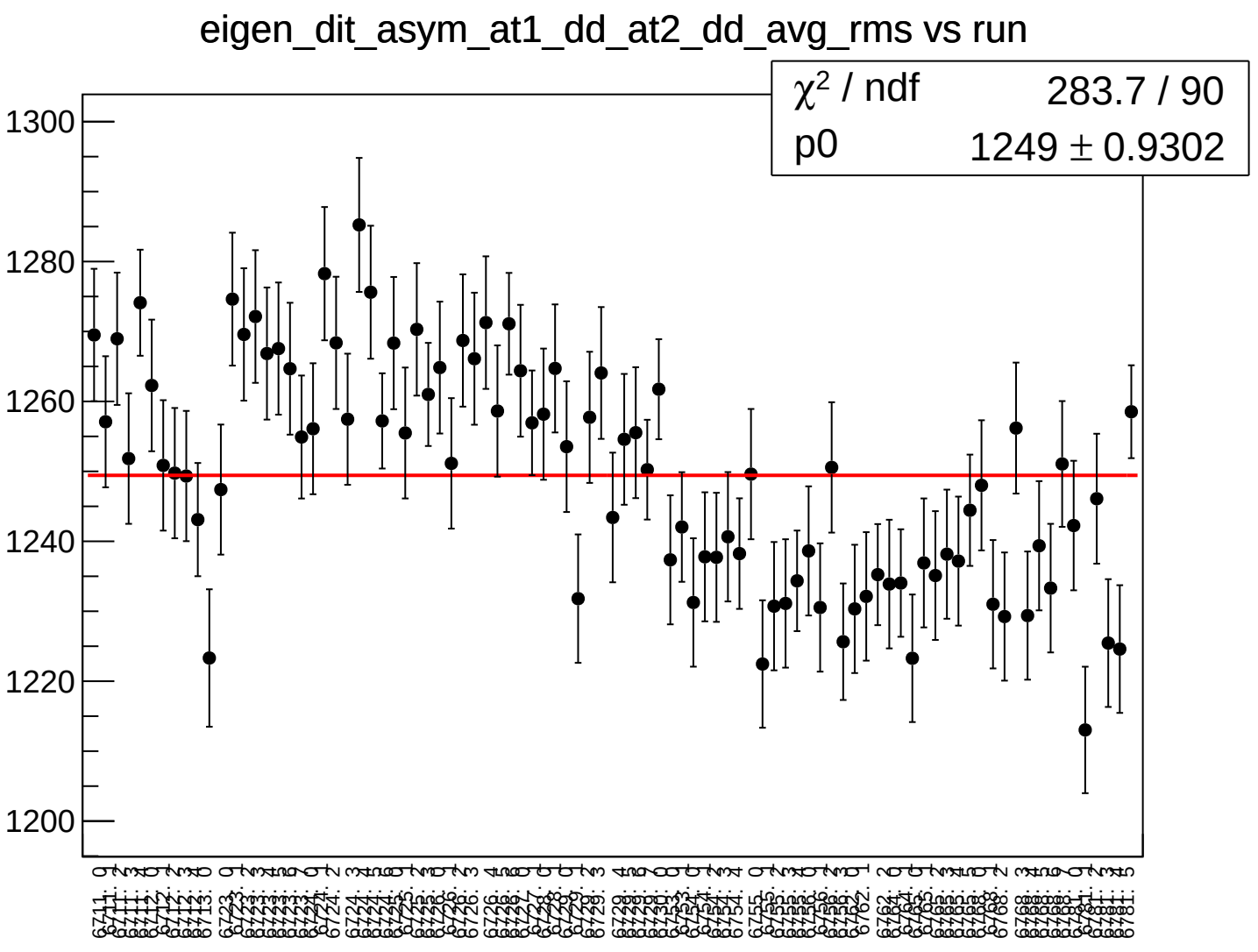

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 112.7 / 90
p0 −211.7 ± 709.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 109.6
Std Dev 54.48
3
2
1
0
−1
−2
−3

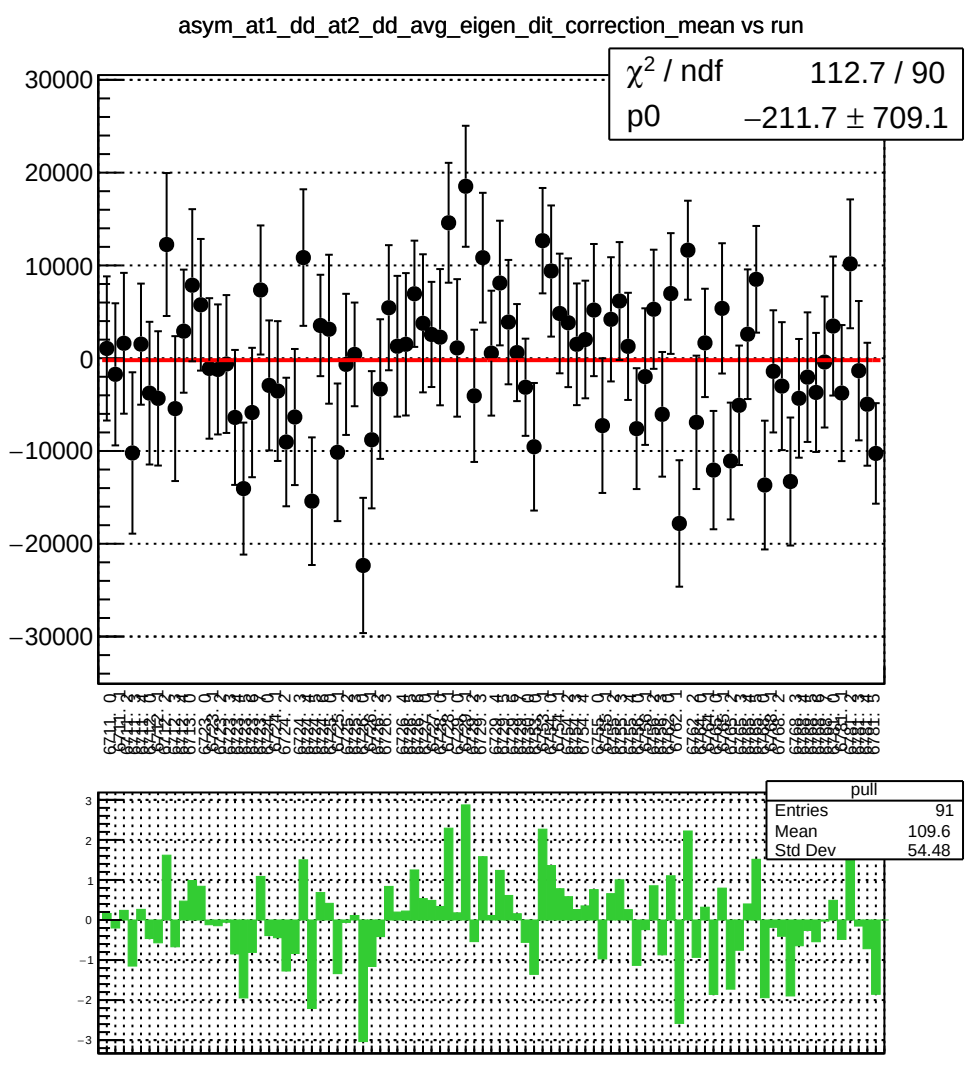

pull1D
Entries 91
Mean −0.02183
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

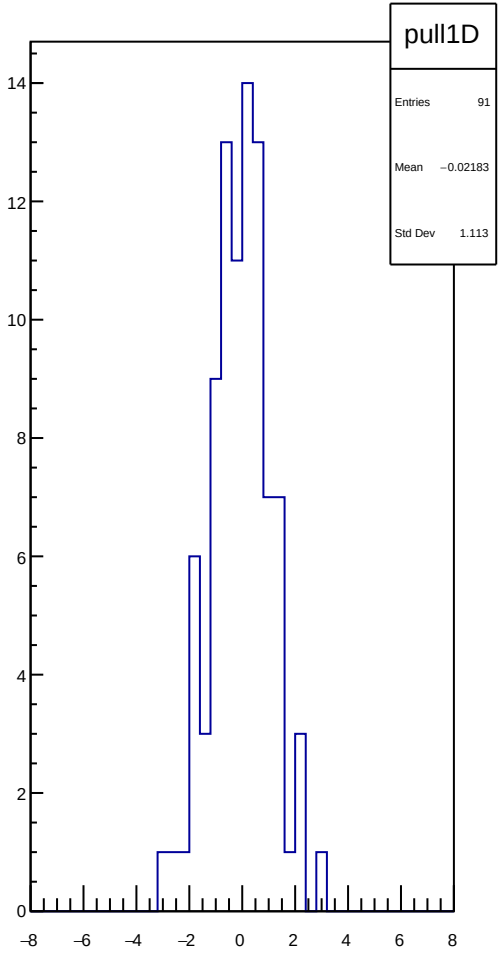

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 6947 / 90
p0 672.3 ± 0.5014
850
800
750
700
650
600

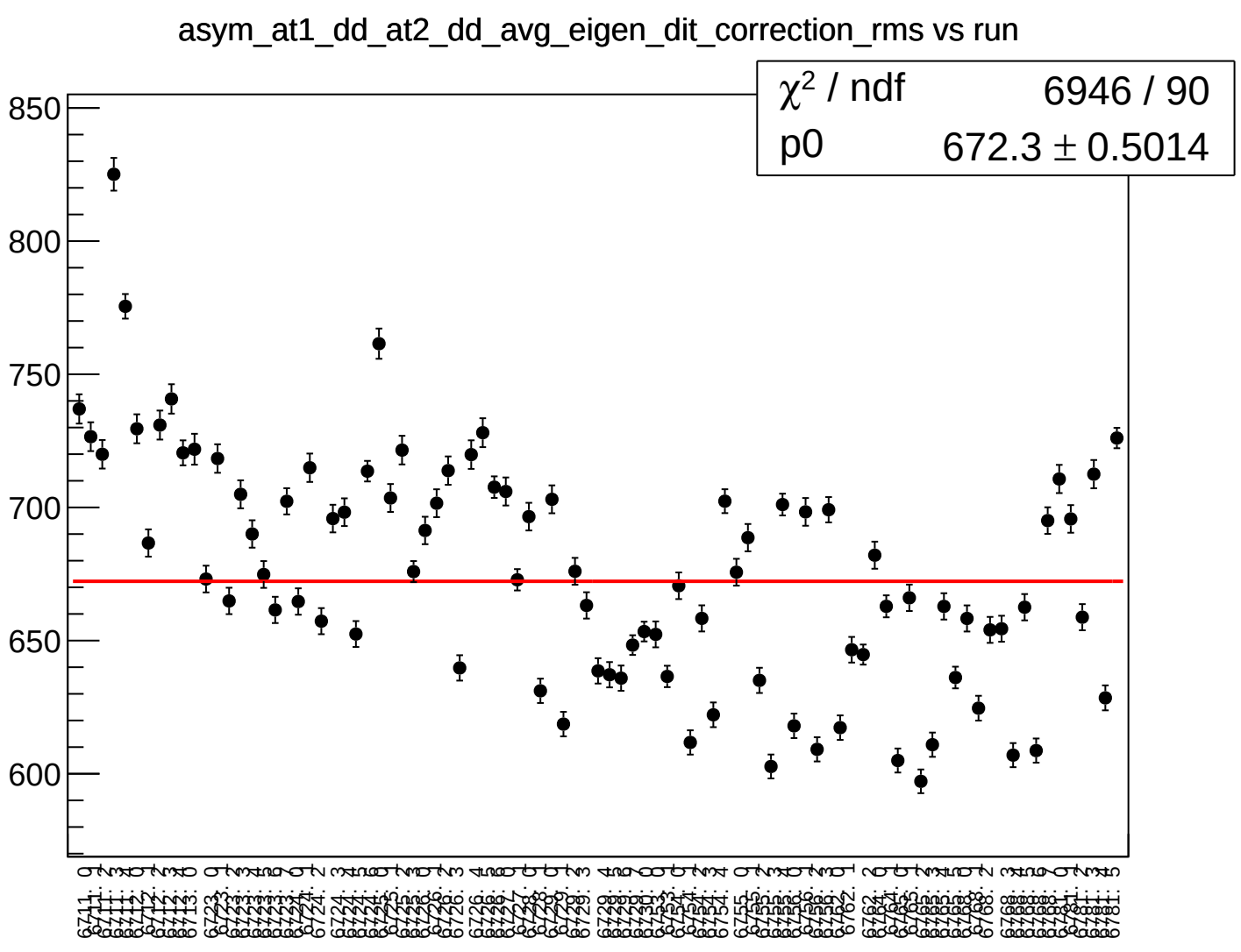

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 102.2 / 90
p0 1641 ± 1316
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 303.9
Std Dev 0
2
1
0
−1
−2
−3

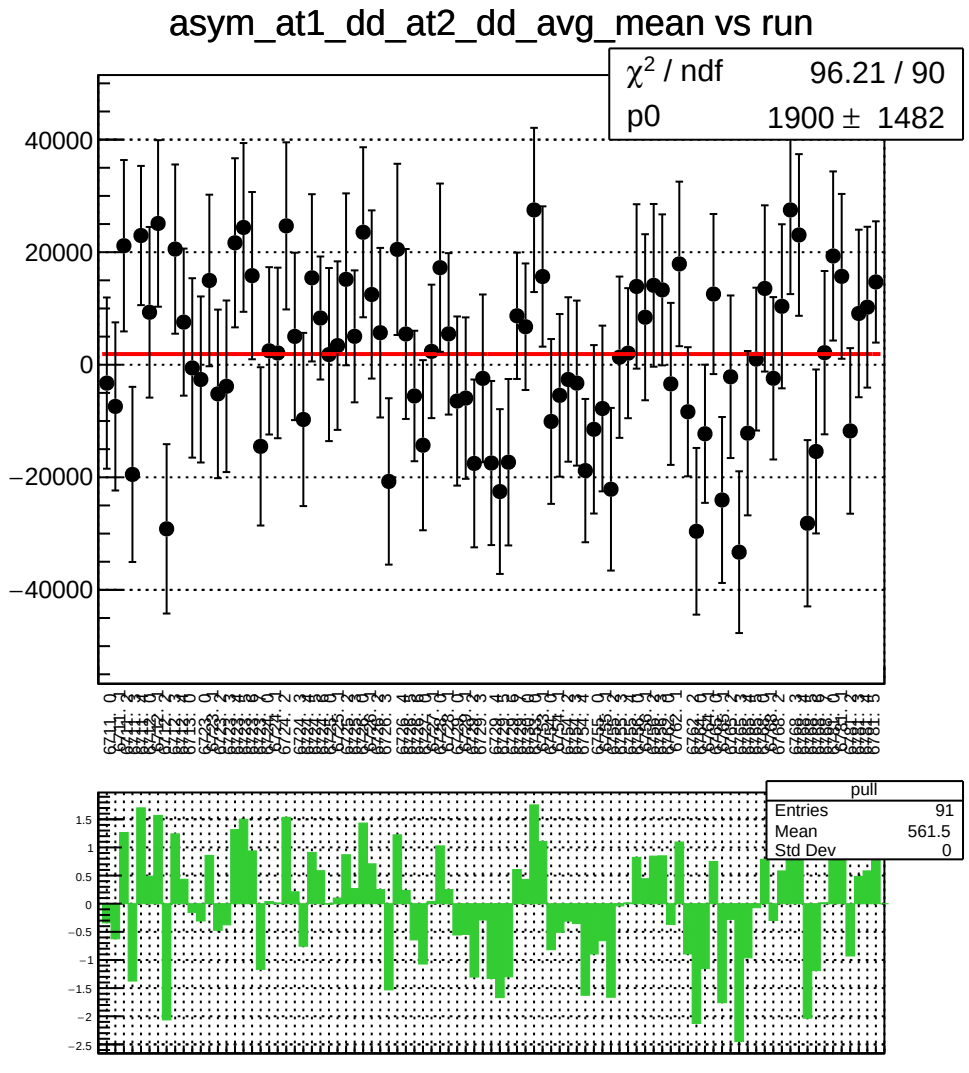

pull1D
Entries 91
Mean −0.01713
Std Dev 1.06
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

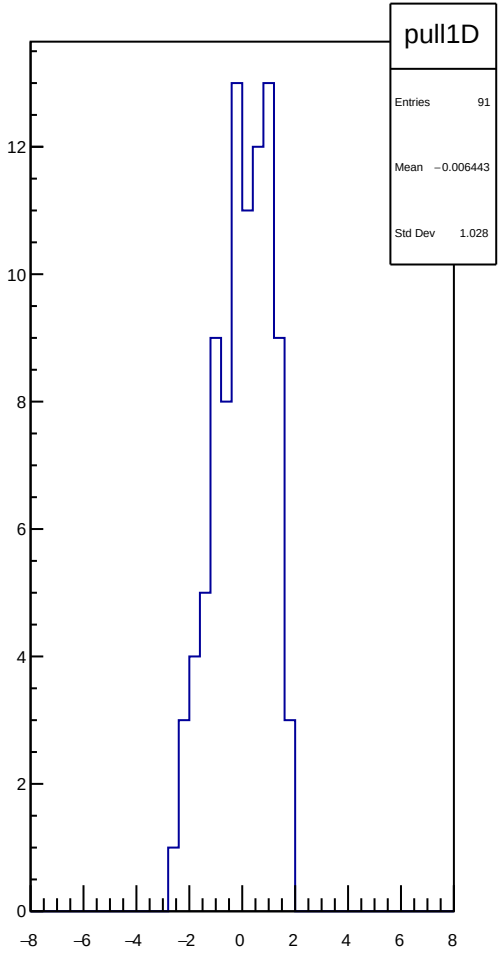

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 283.7 / 90
p0 1249 ± 0.9302
1300
1280
1260
1240
1220
1200

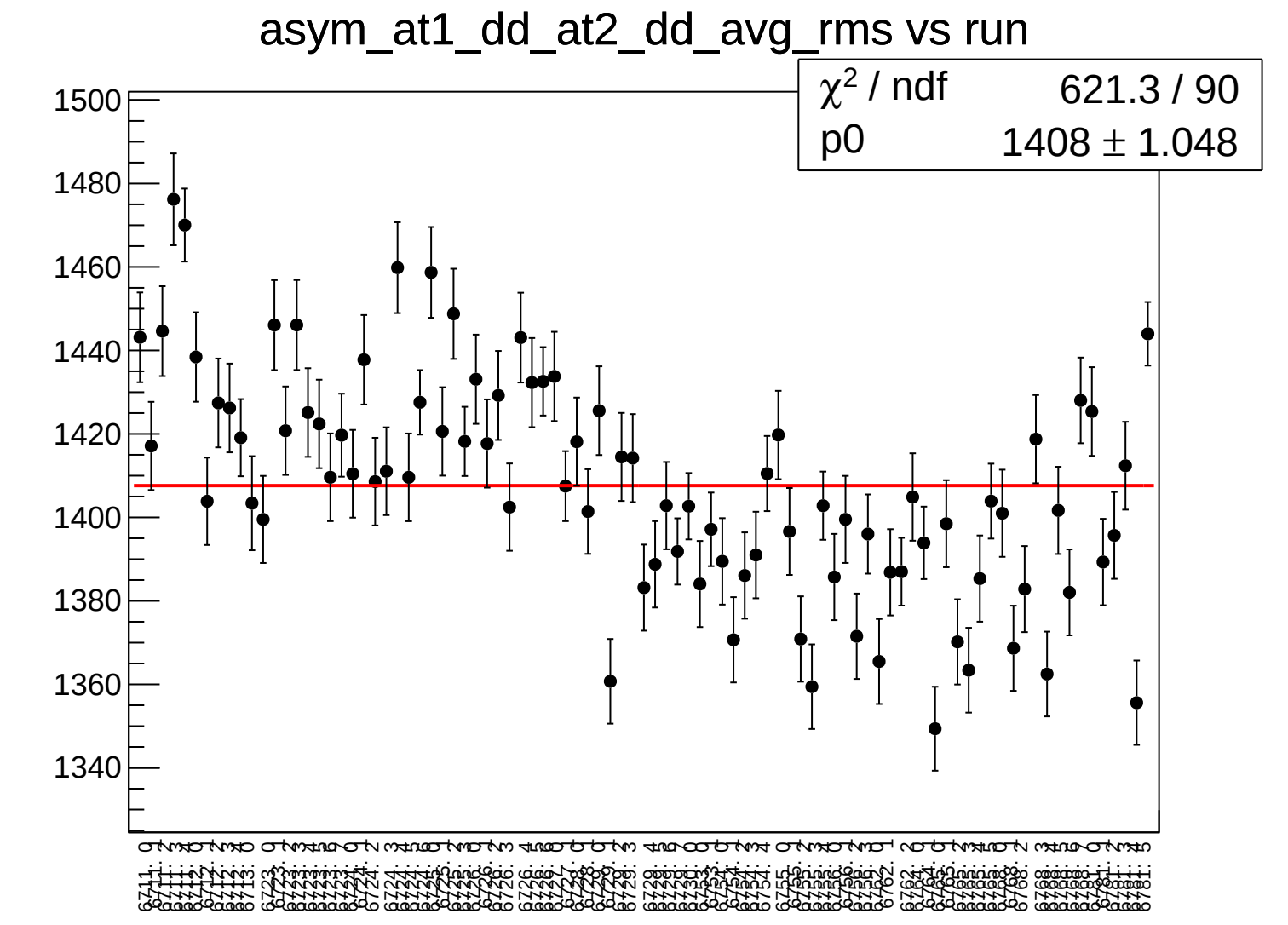

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 112.7 / 90
p0 −211.7 ± 709.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 109.6
Std Dev 54.48
3
2
1
0
−1
−2
−3

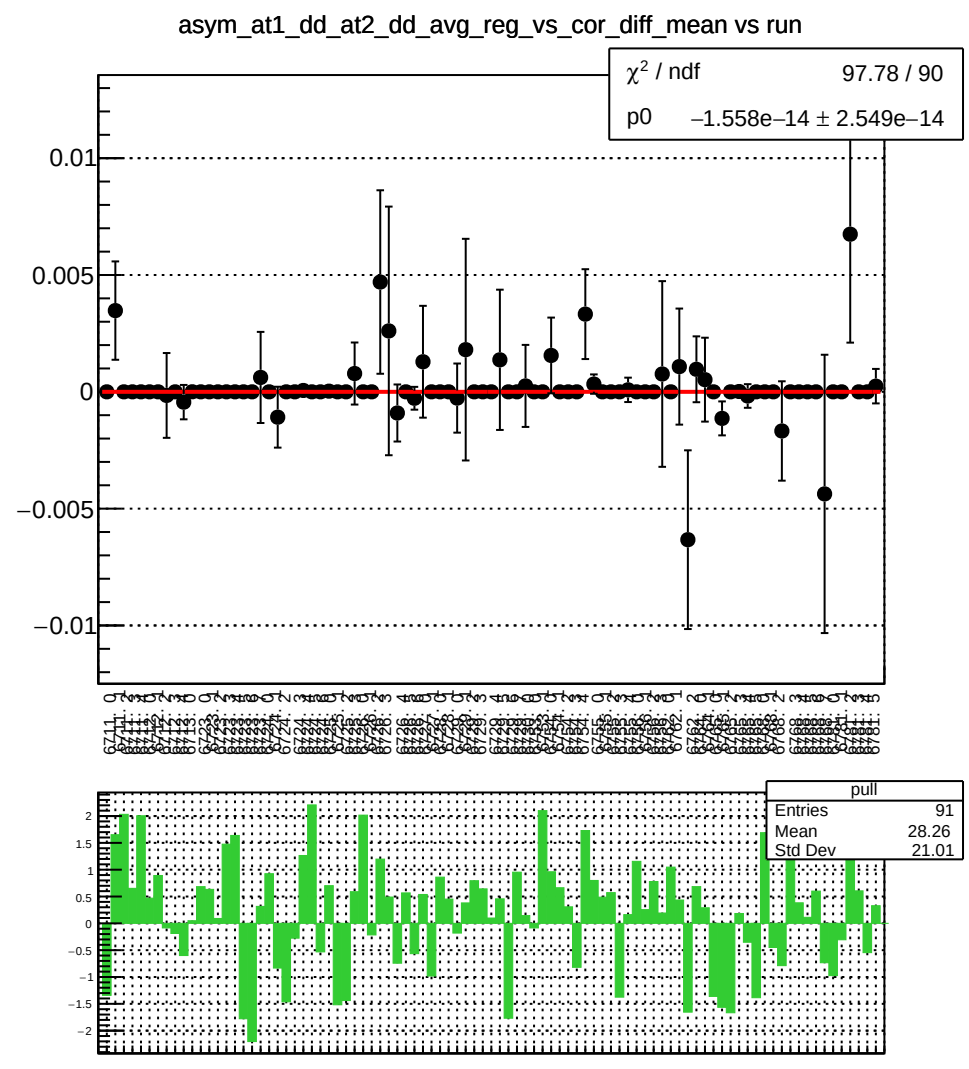

pull1D
Entries 91
Mean −0.02183
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

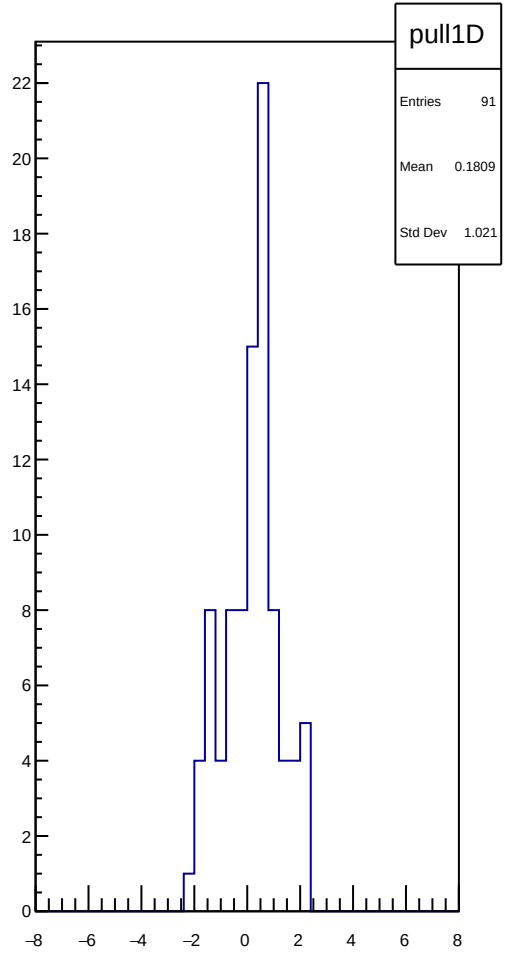

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 6946 / 90
p0 672.3 ± 0.5014
850
800
750
700
650
600

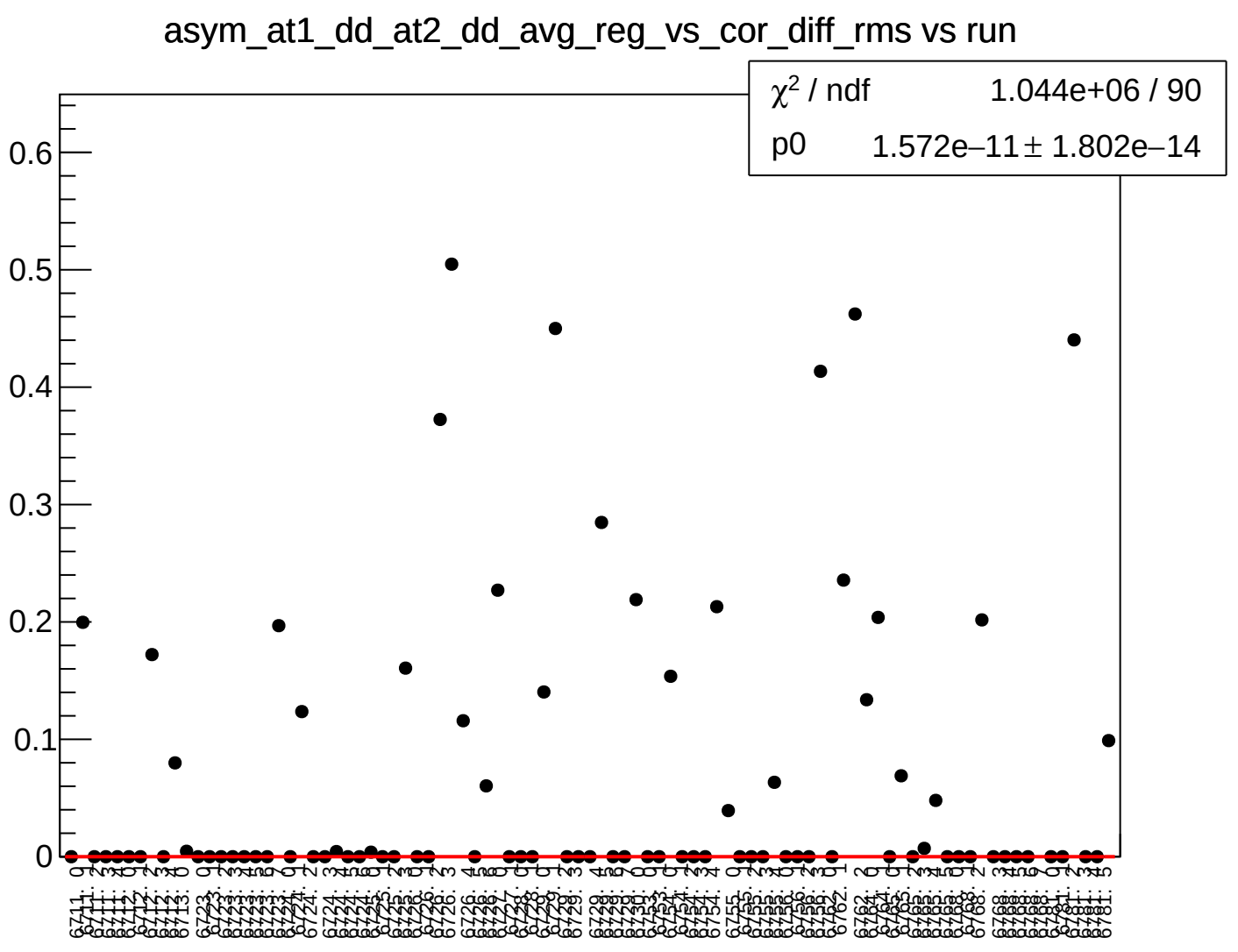

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 96.21 / 90
p0 1900 ± 1482
40000
20000
0
−20000
−40000
pull
Entries 91
Mean 561.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

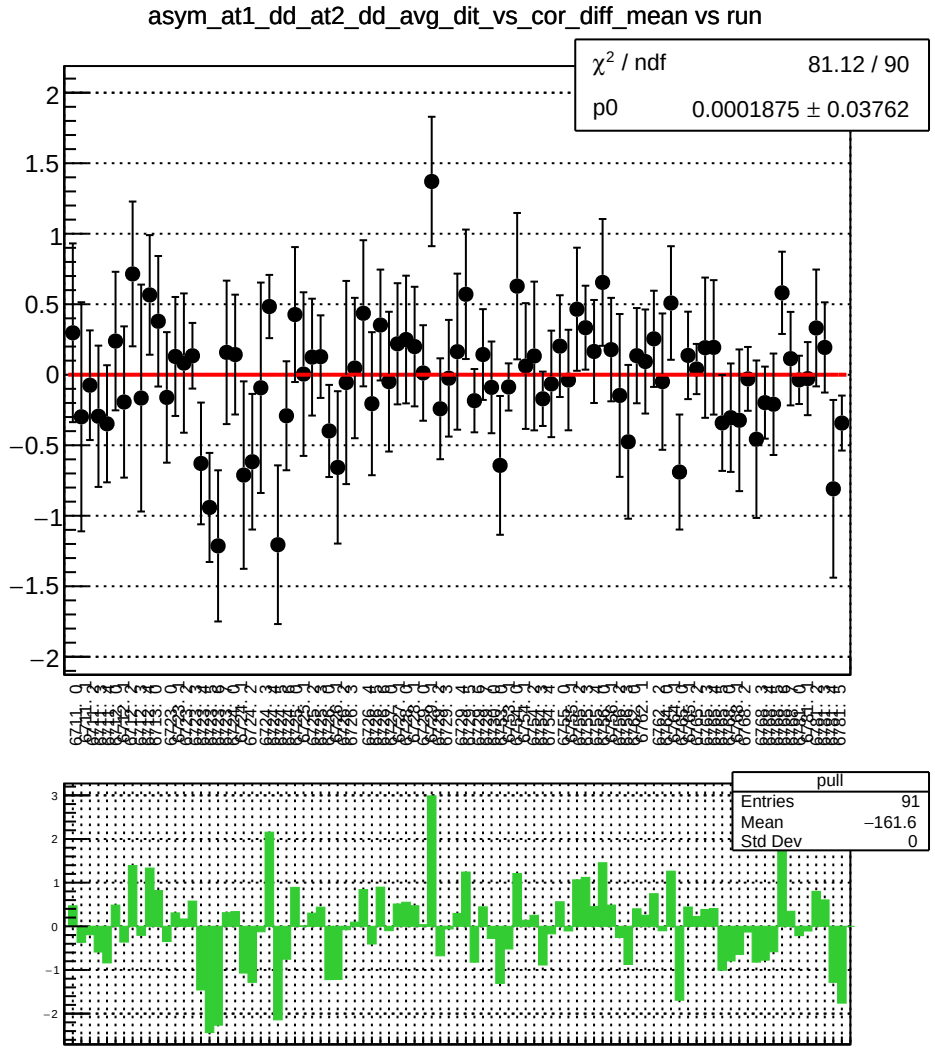

pull1D
Entries 91
Mean −0.006443
Std Dev 1.028
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

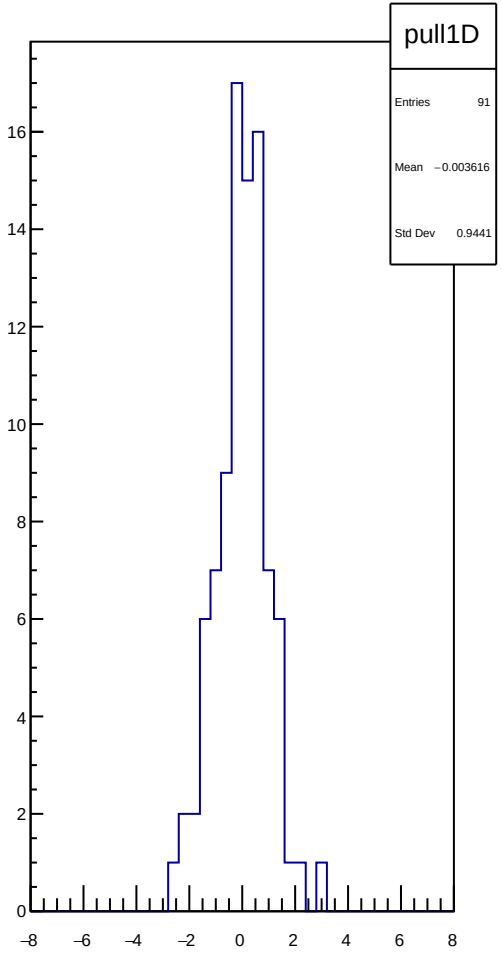

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 621.3 / 90
p0 1408 ± 1.048
1500
1480
1460
1440
1420
1400
1380
1360
1340

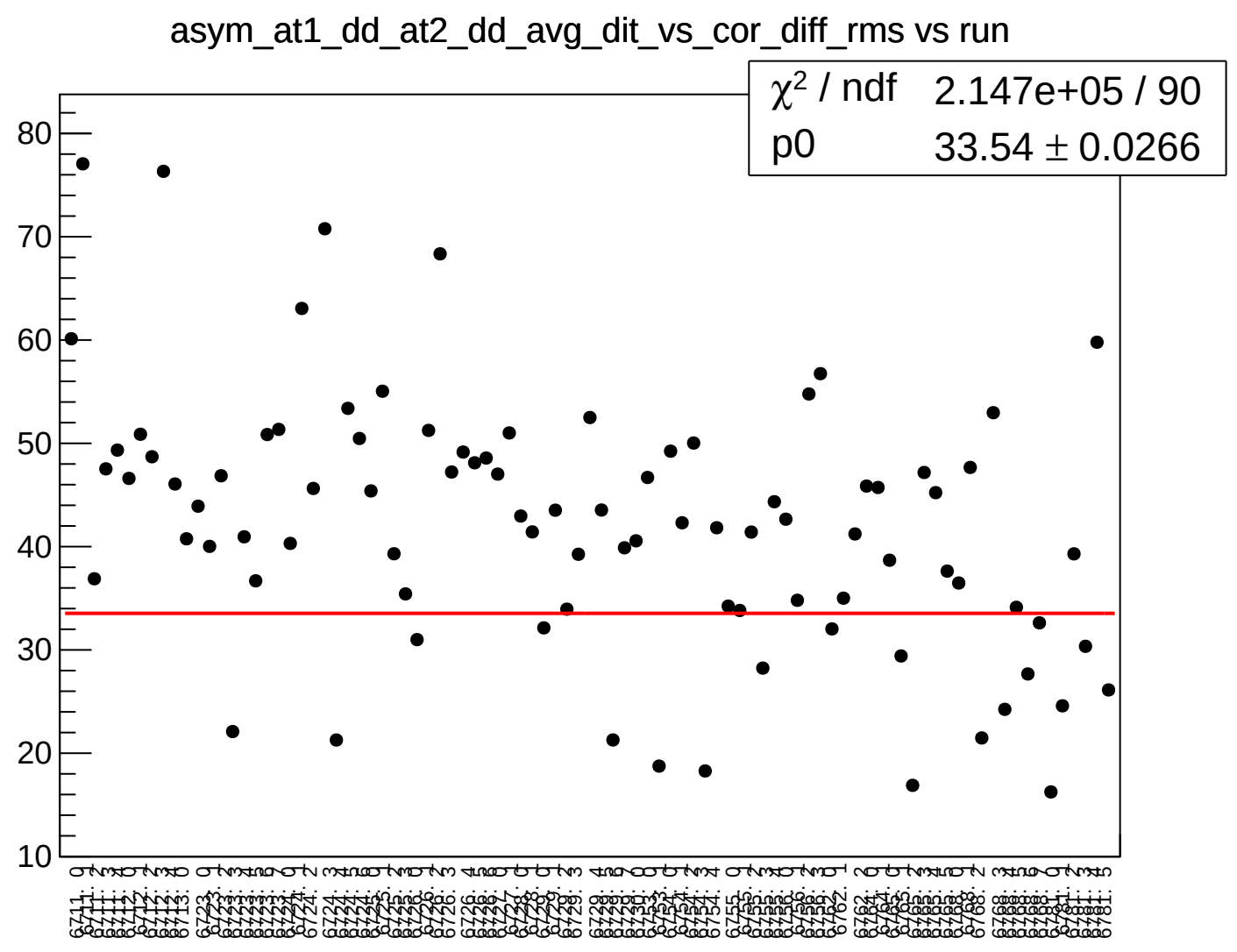

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.78 / 90
p0 −1.558e−14 ± 2.549e−14
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean 28.26
Std Dev 21.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

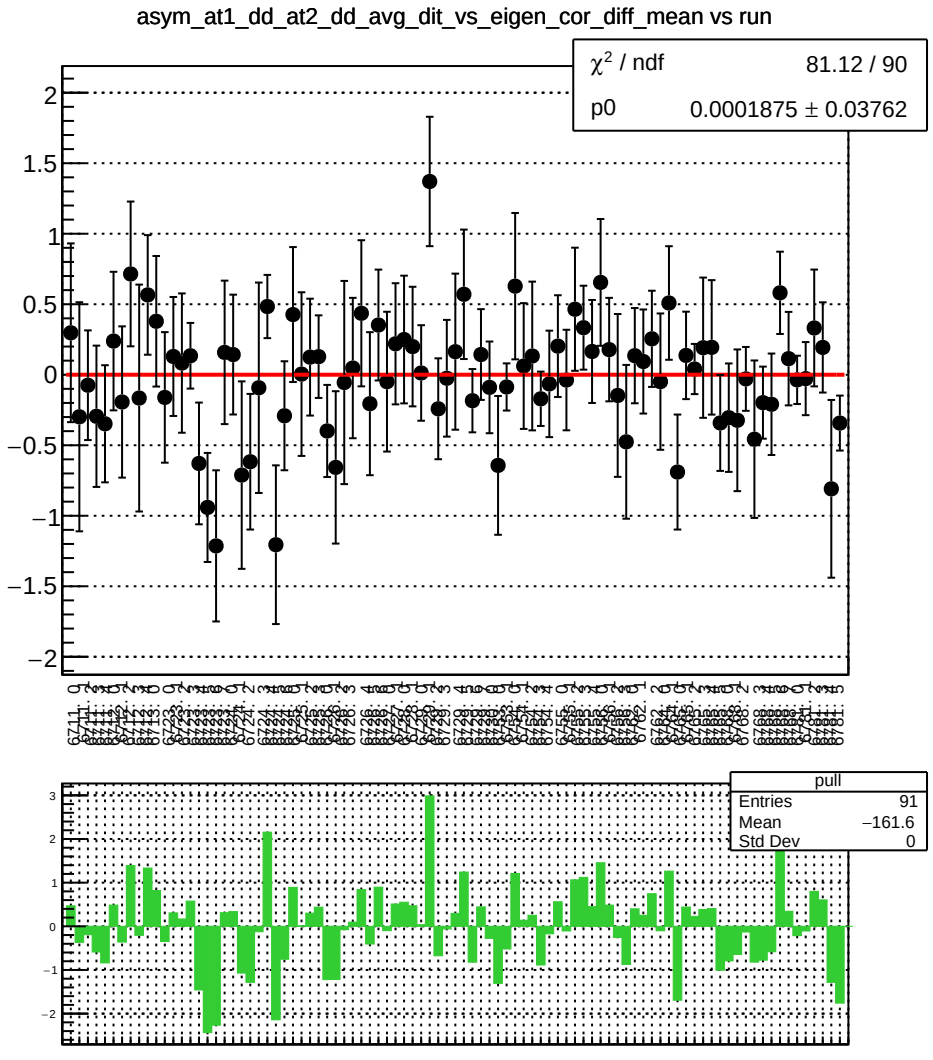

pull1D
Entries 91
Mean 0.1809
Std Dev 1.021
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

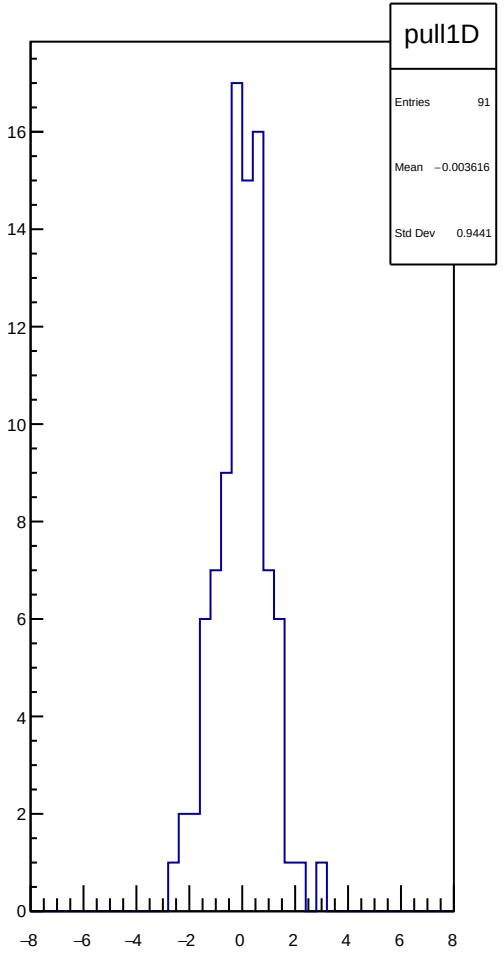

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.044e+06 / 90
p0 1.572e−11 ± 1.802e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

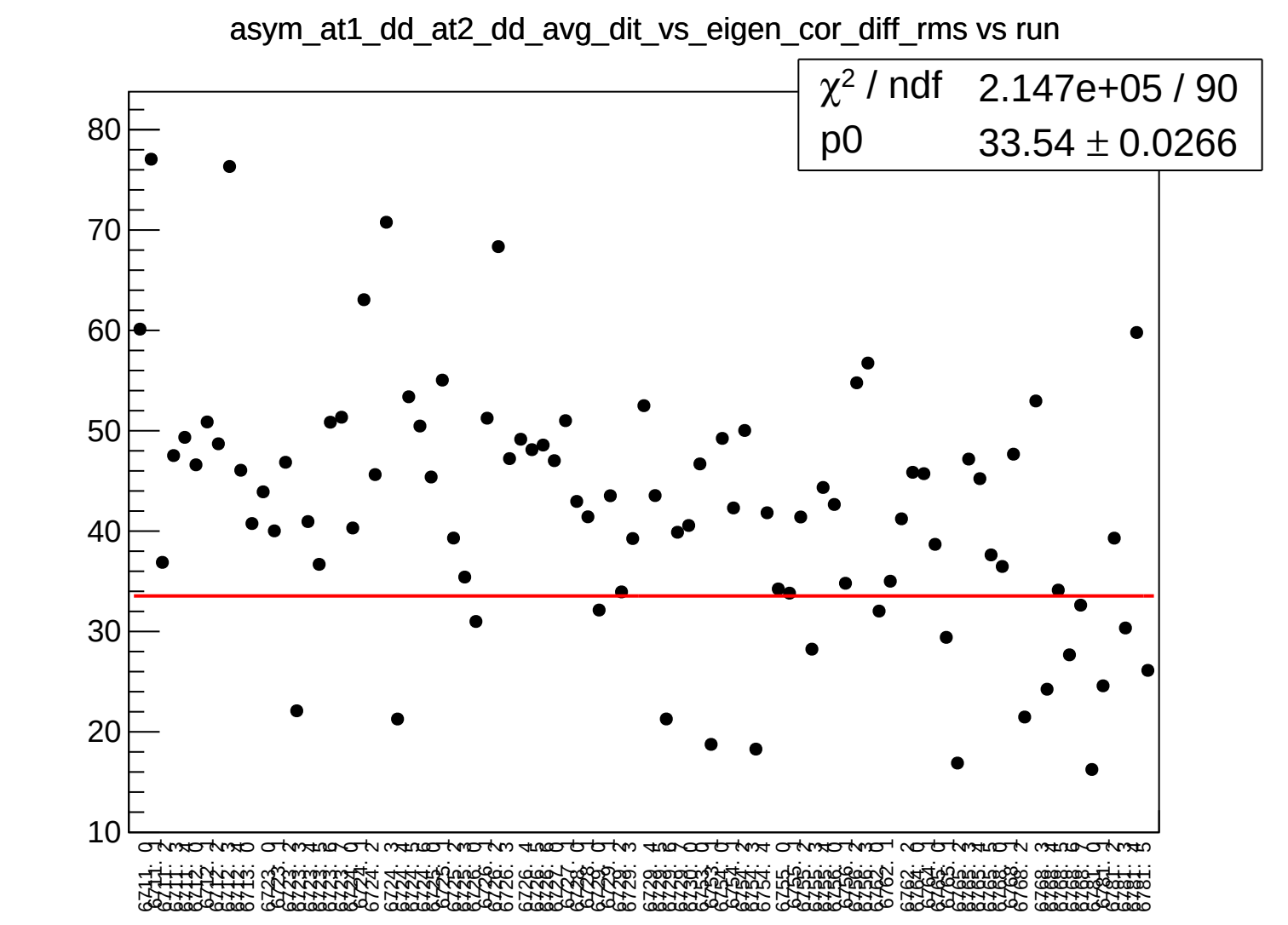

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.12 / 90
p0 0.0001875 ± 0.03762
pull
Entries 91
Mean −161.6
Std Dev 0

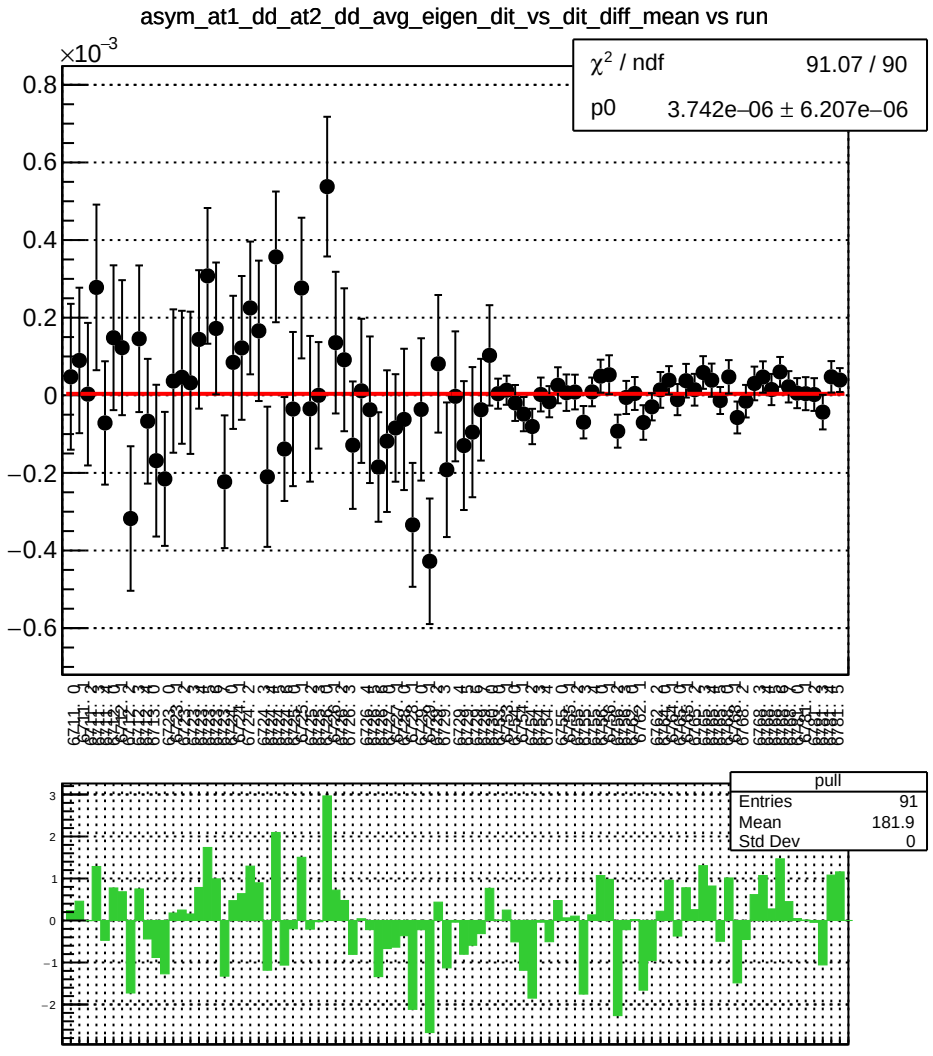

pull1D
Entries 91
Mean −0.003616
Std Dev 0.9441

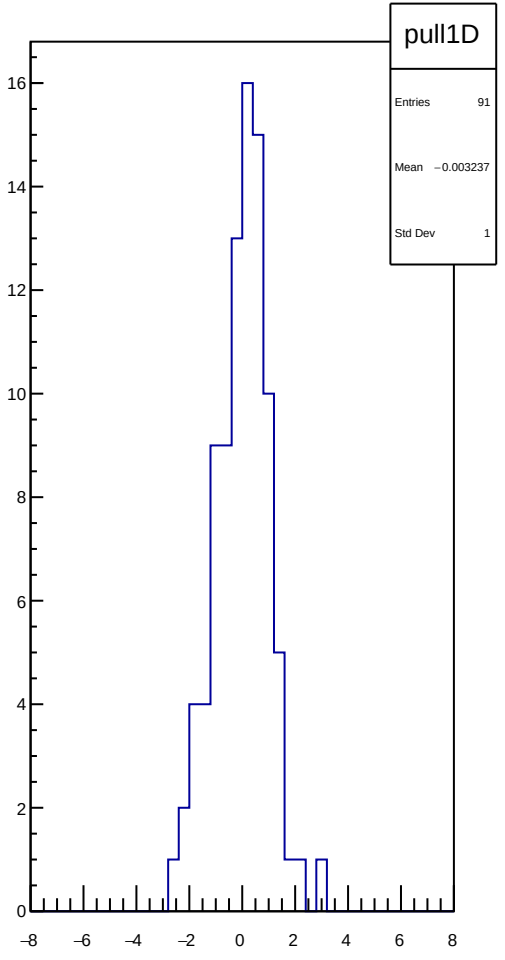

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.147e+05 / 90
p0 33.54 ± 0.0266
80
70
60
50
40
30
20
10

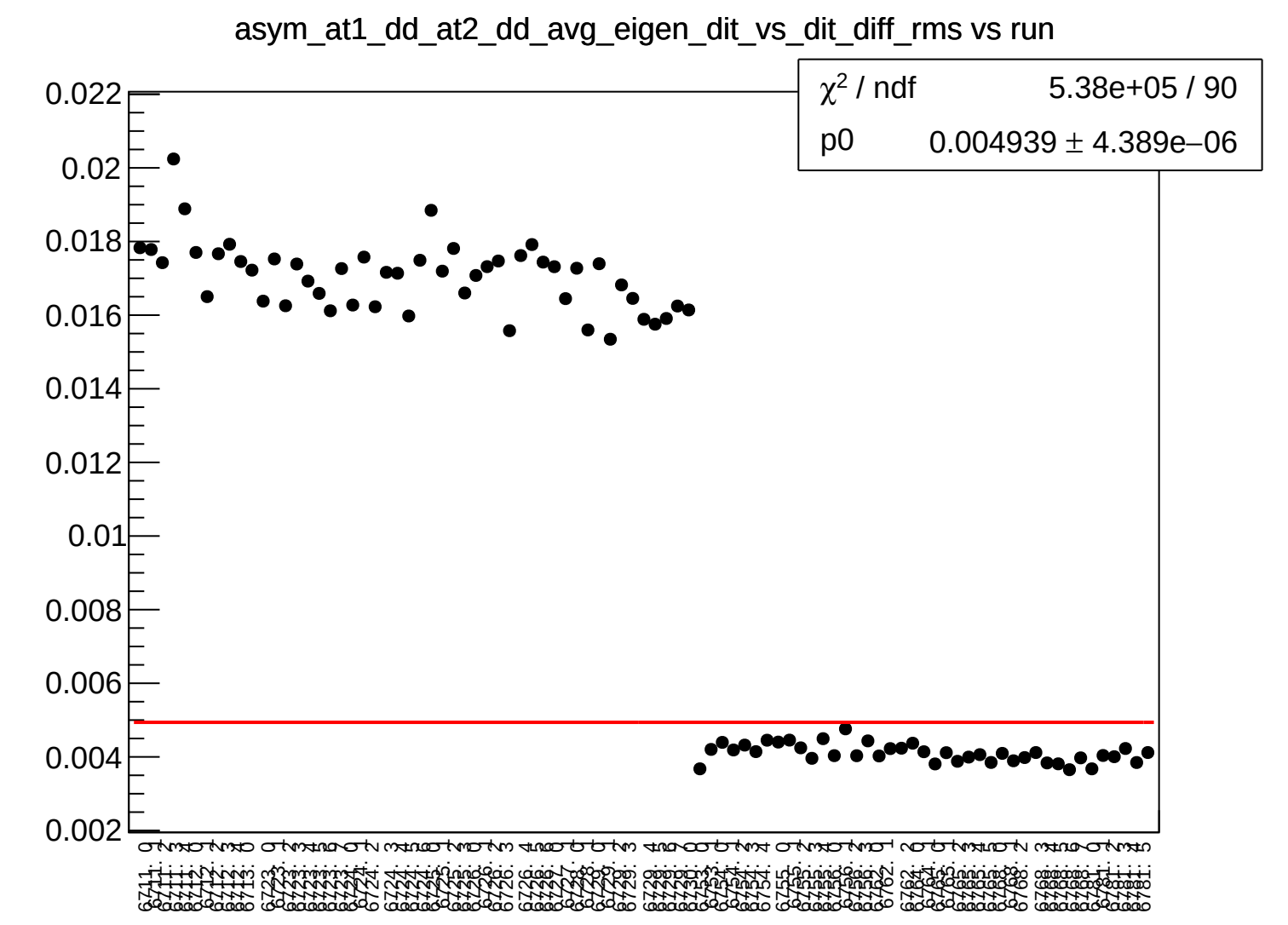

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.12 / 90
p0 0.0001875 ± 0.03762
pull
Entries 91
Mean −161.6
Std Dev 0

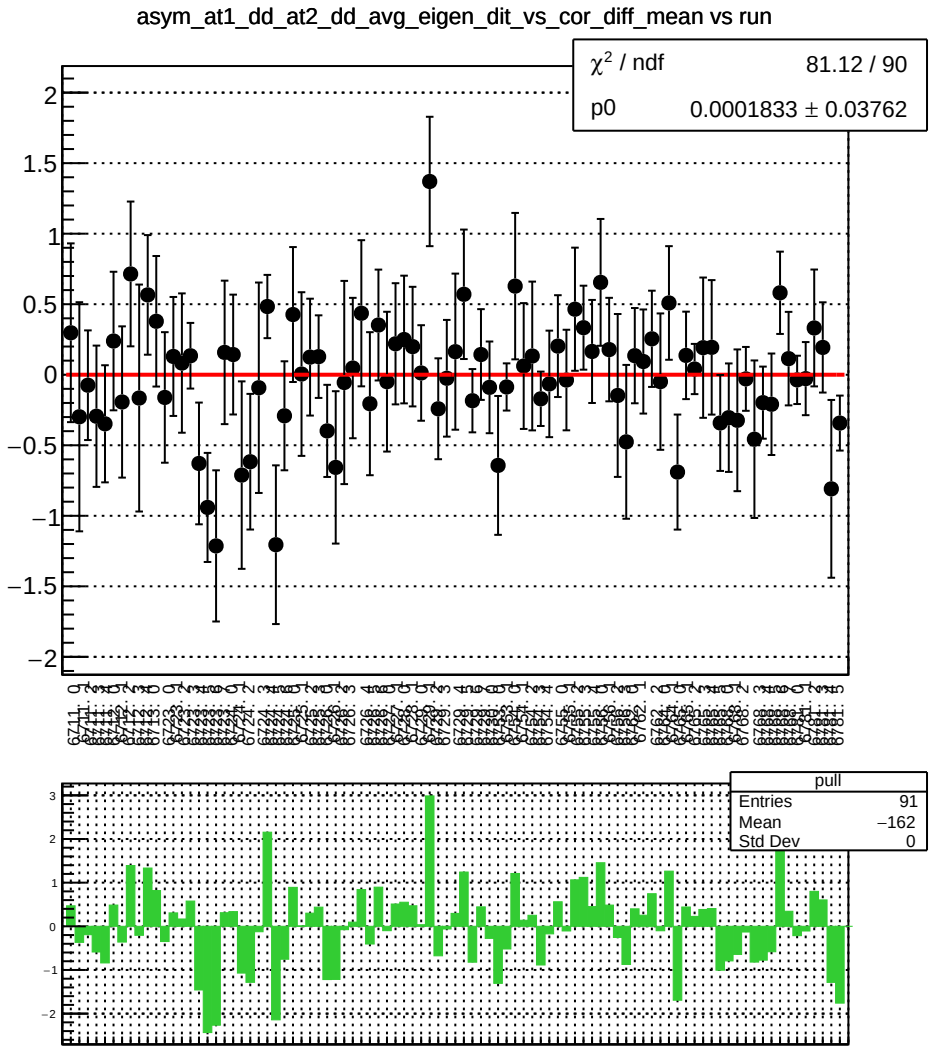

pull1D
Entries 91
Mean −0.003616
Std Dev 0.9441

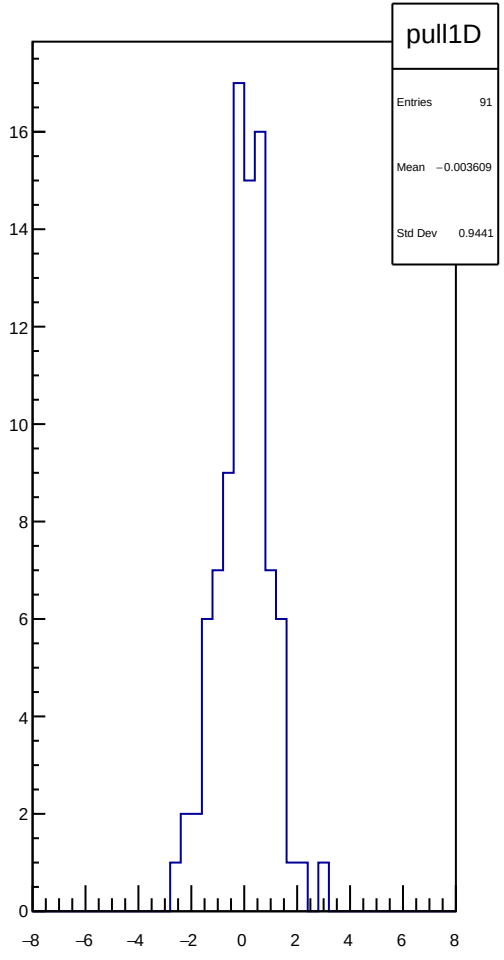

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.147e+05 / 90
p0 33.54 ± 0.0266
80
70
60
50
40
30
20
10

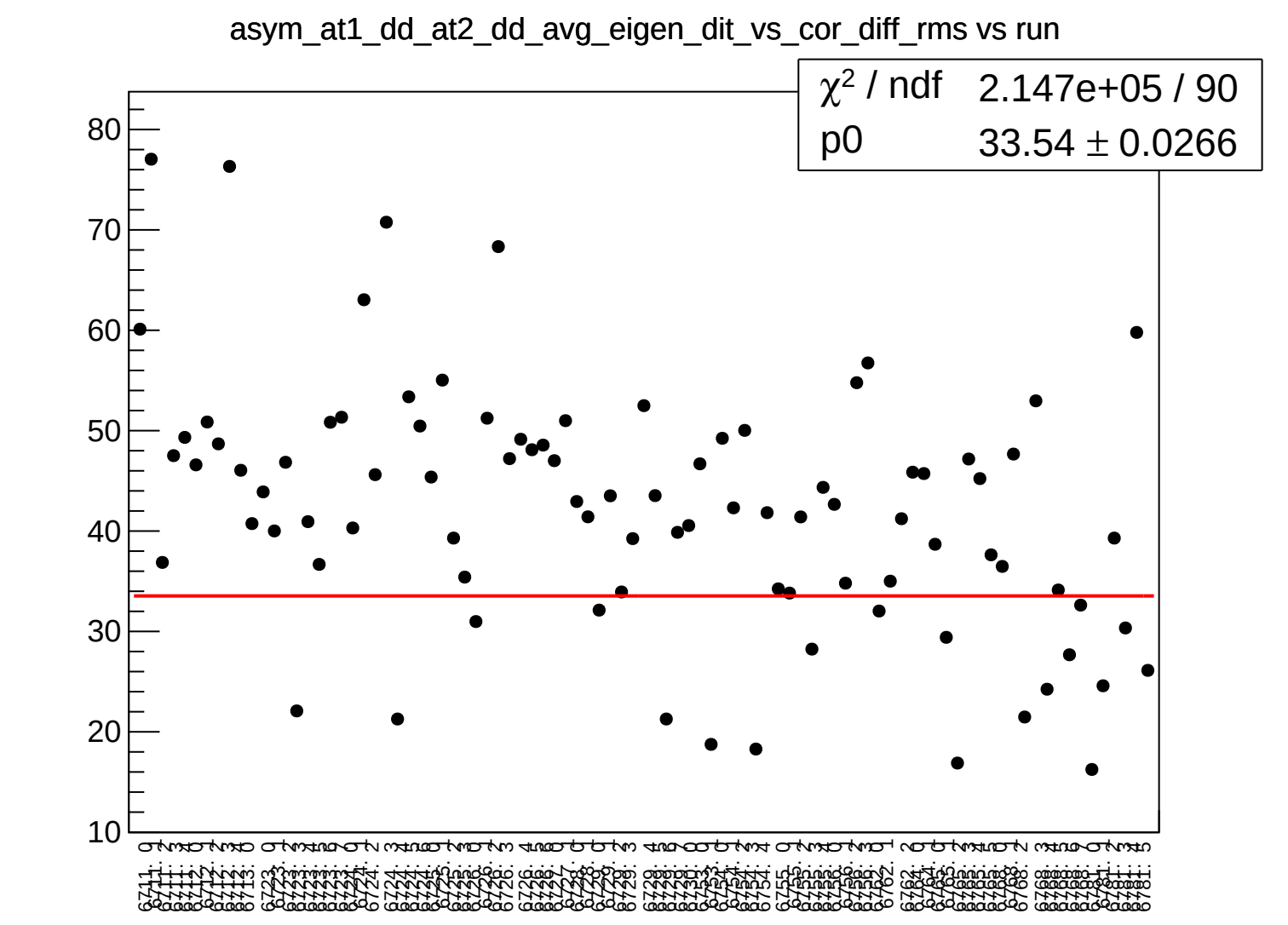

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.07 / 90
p0 3.742e−06 ± 6.207e−06
pull
Entries 91
Mean 181.9
Std Dev 0

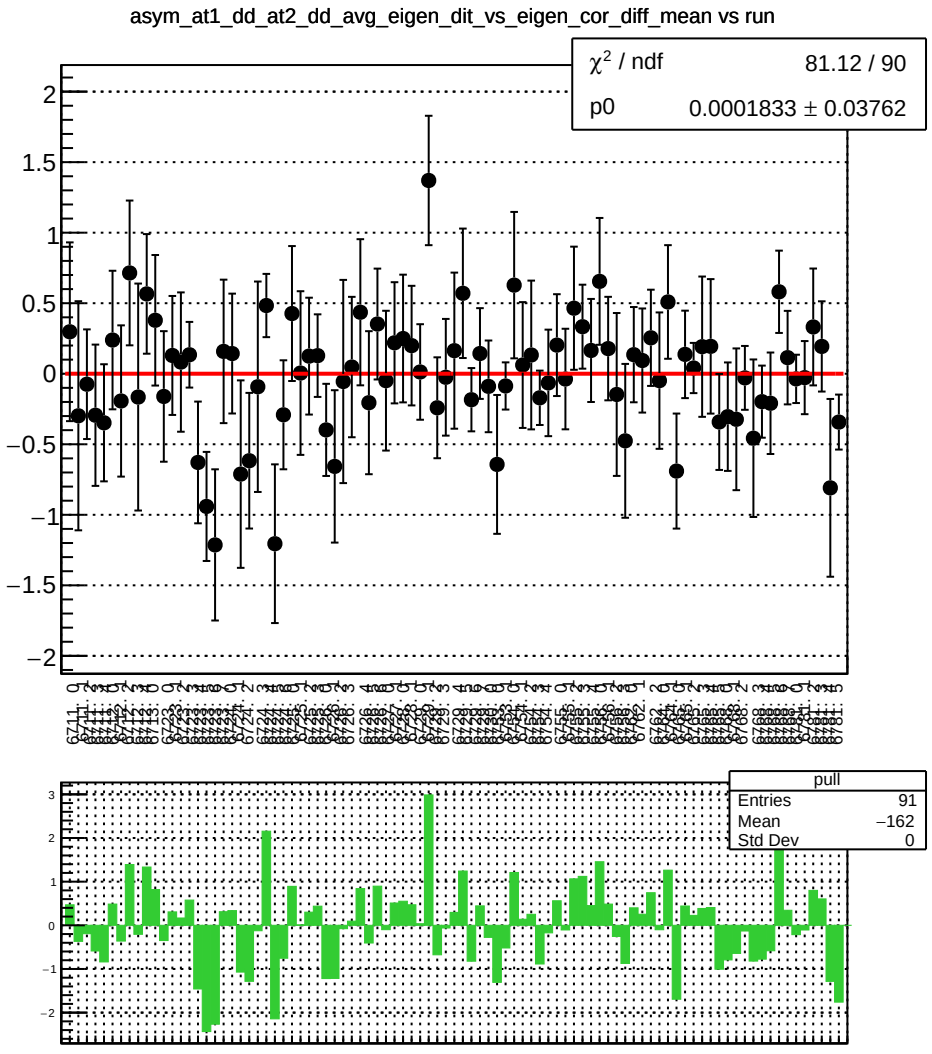

pull1D
Entries 91
Mean −0.003237
Std Dev 1

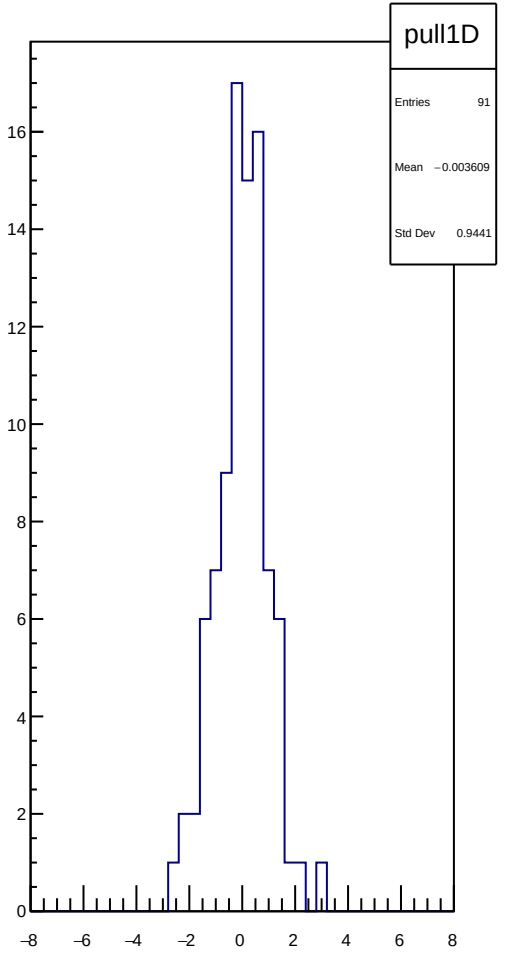

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.38e+05 / 90
p0 0.004939 ± 4.389e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

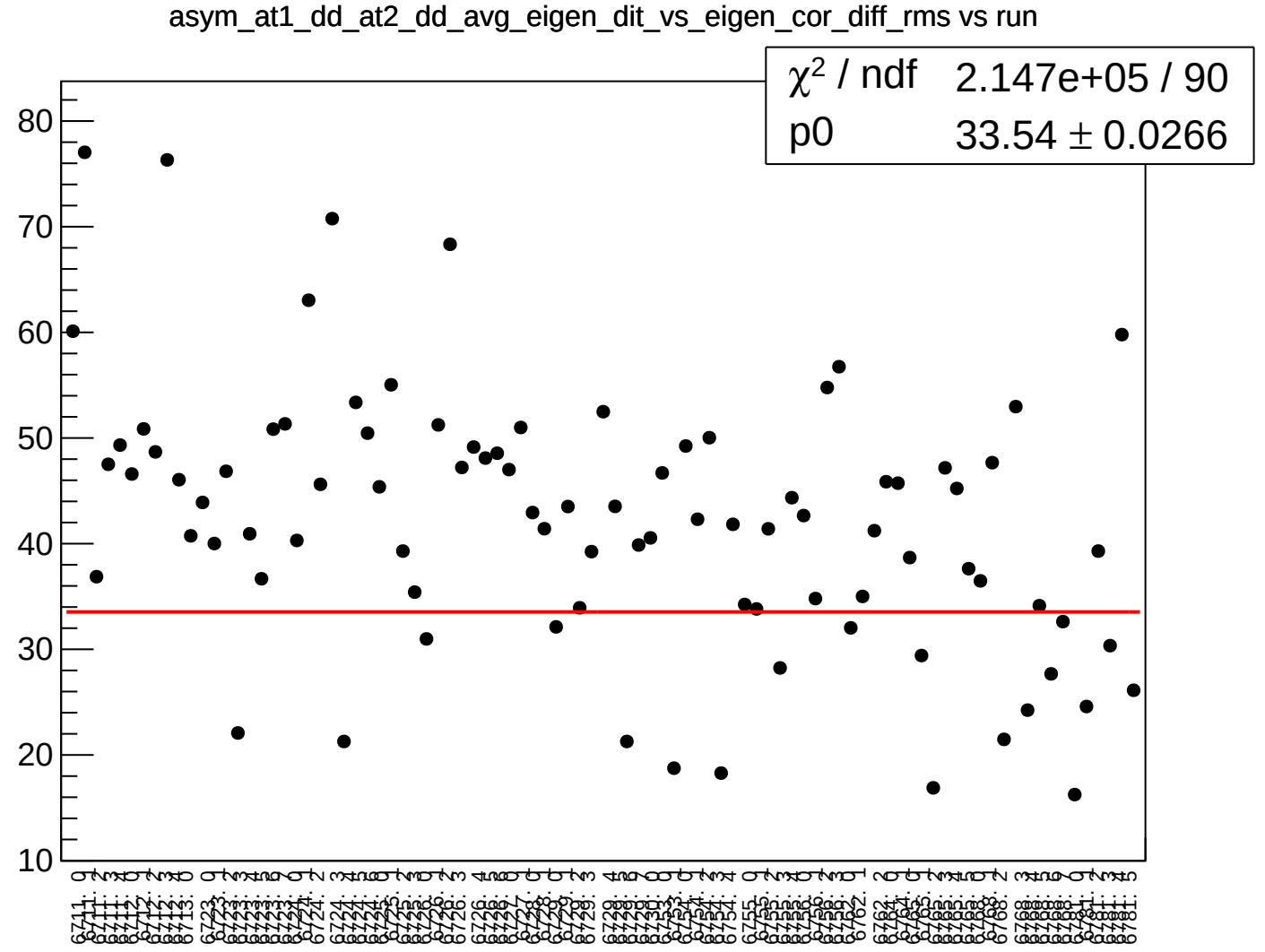

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.12 / 90
p0 0.0001833 ± 0.03762
pull
Entries 91
Mean −162
Std Dev 0

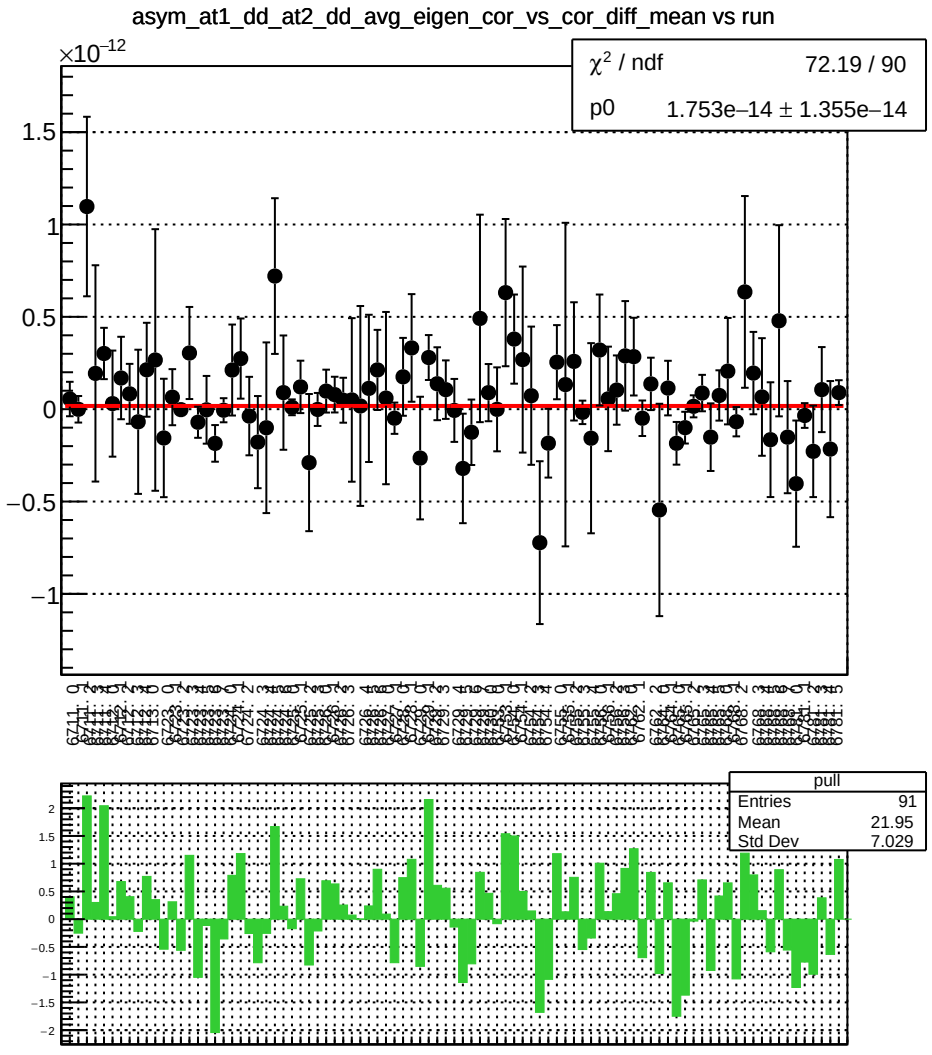

pull1D
Entries 91
Mean −0.003609
Std Dev 0.9441

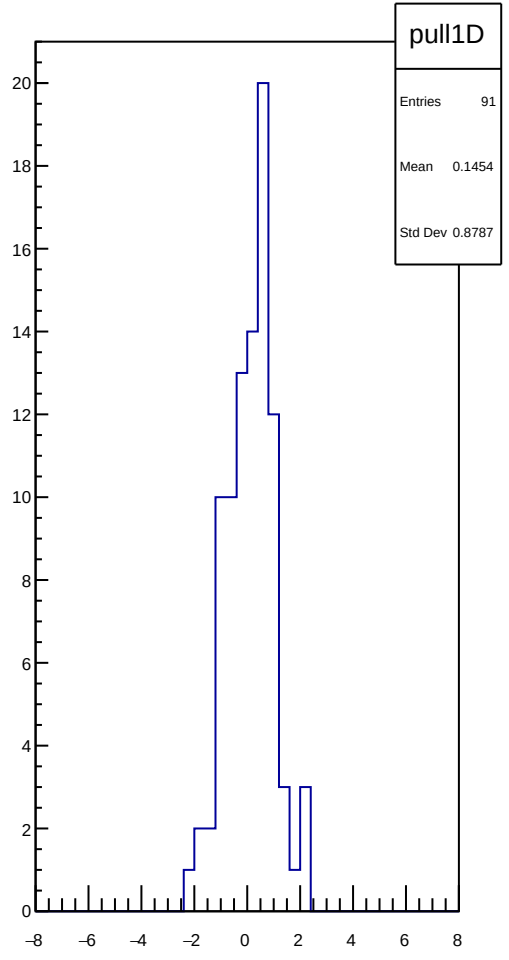

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.147e+05 / 90
p0 33.54 ± 0.0266
80
70
60
50
40
30
20
10

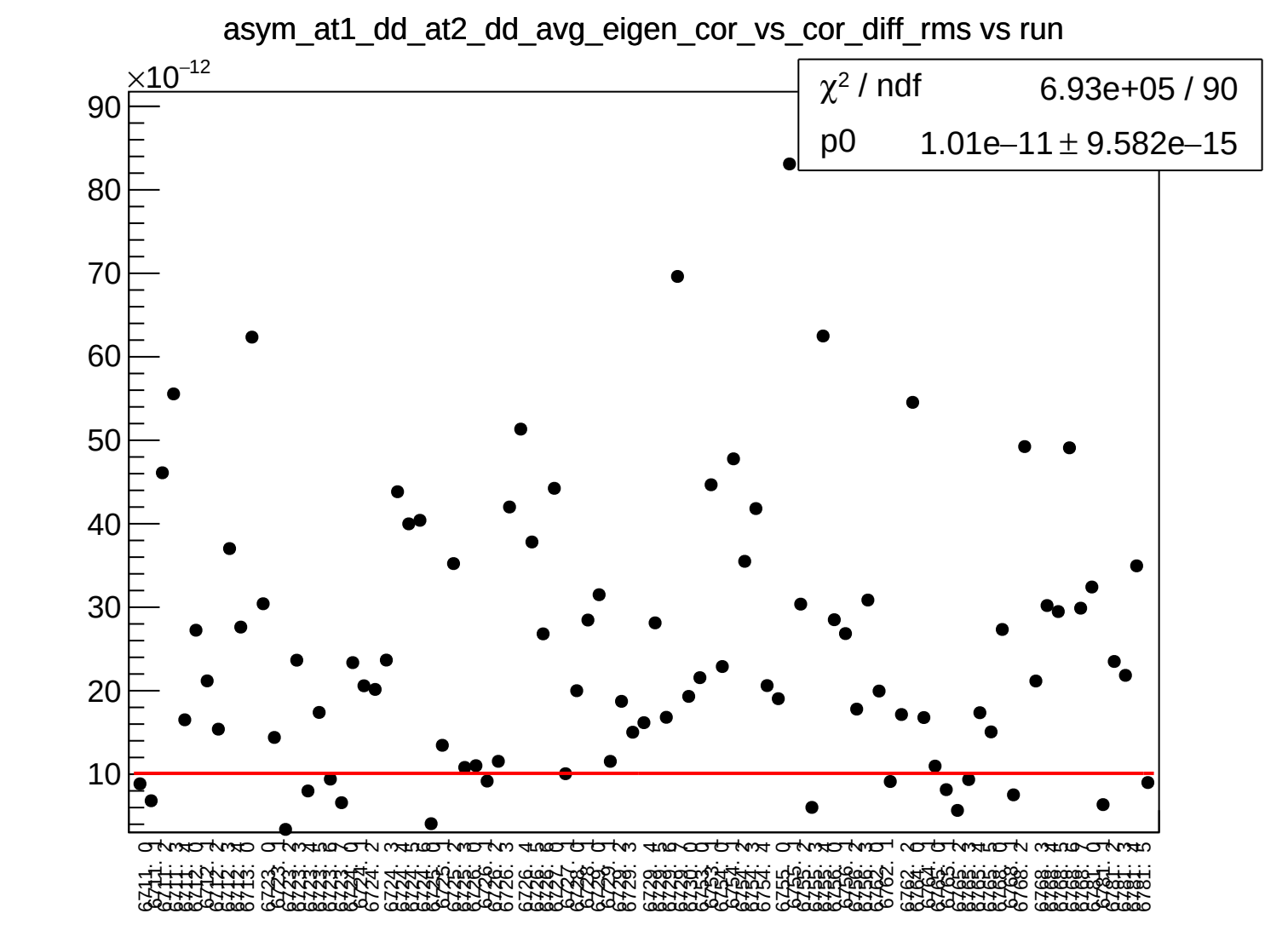

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.12 / 90
p0 0.0001833 ± 0.03762
pull
Entries 91
Mean −162
Std Dev 0

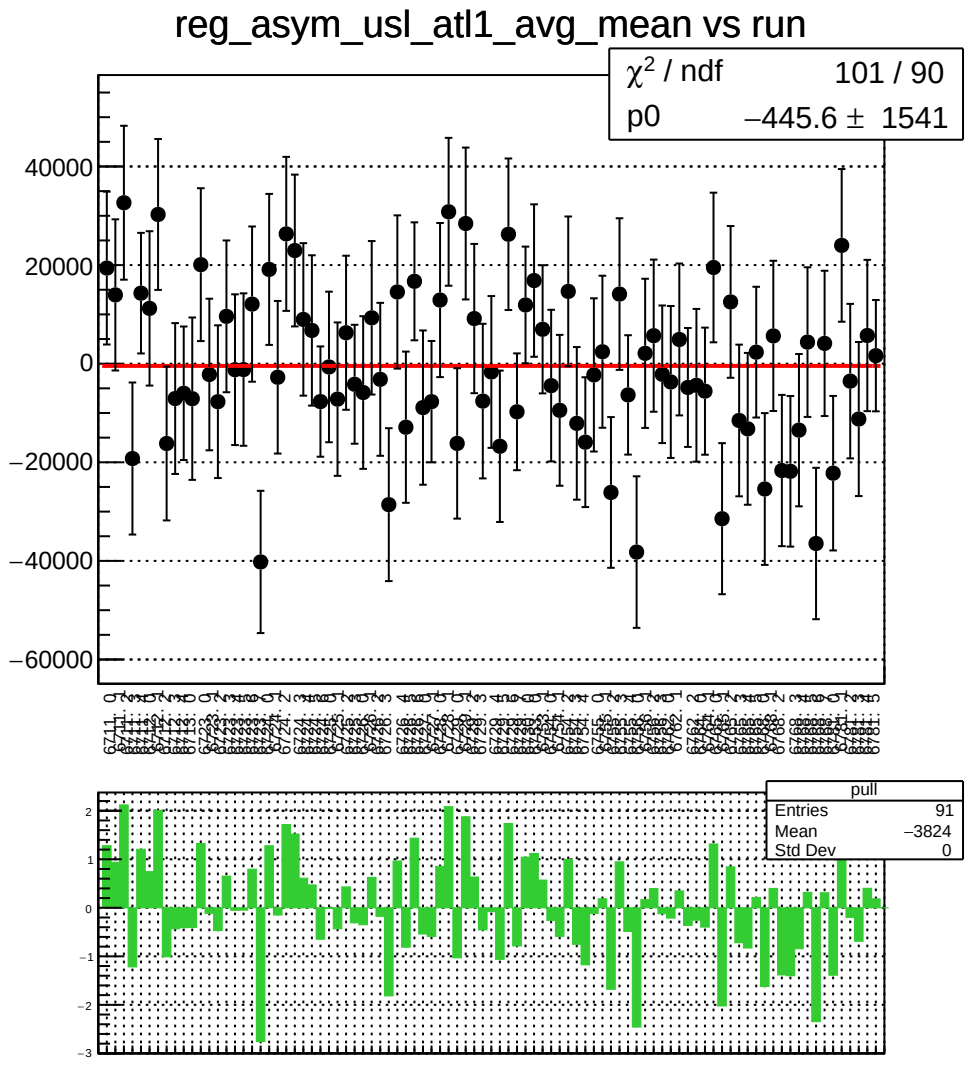

pull1D
Entries 91
Mean −0.003609
Std Dev 0.9441

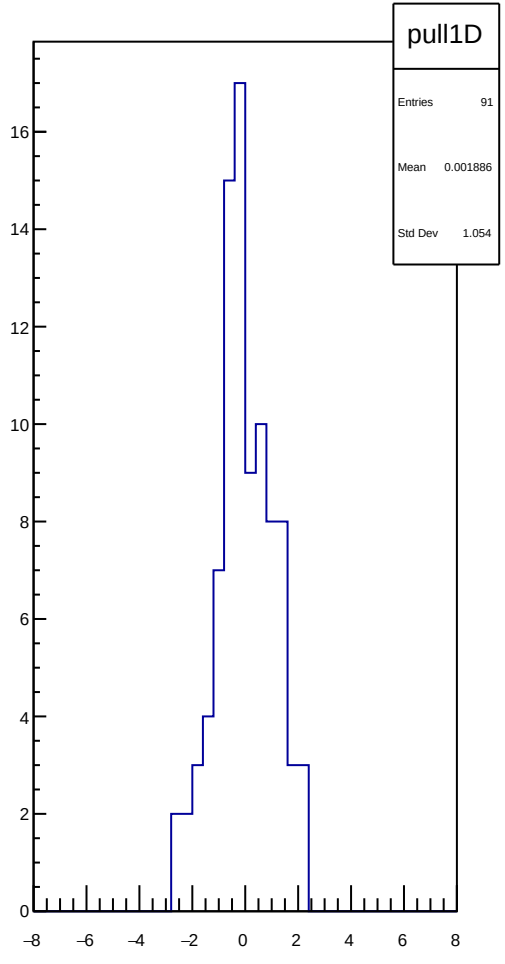

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.147e+05 / 90
p0 33.54 ± 0.0266
80
70
60
50
40
30
20
10

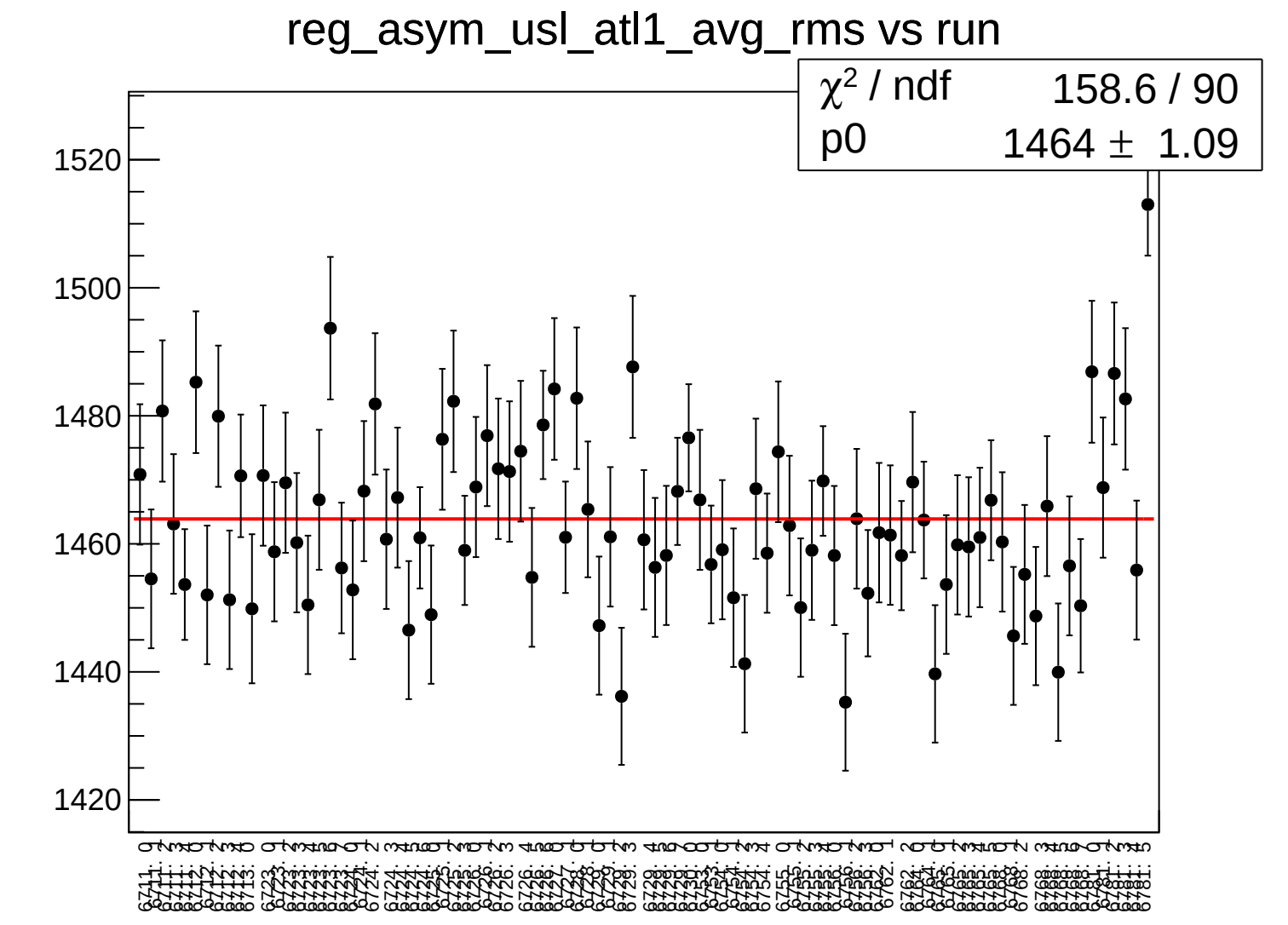

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.19 / 90
p0 1.753e−14 ± 1.355e−14
1.5
1
0.5
0
−0.5
−1
pull
Entries 91
Mean 21.95
Std Dev 7.029
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

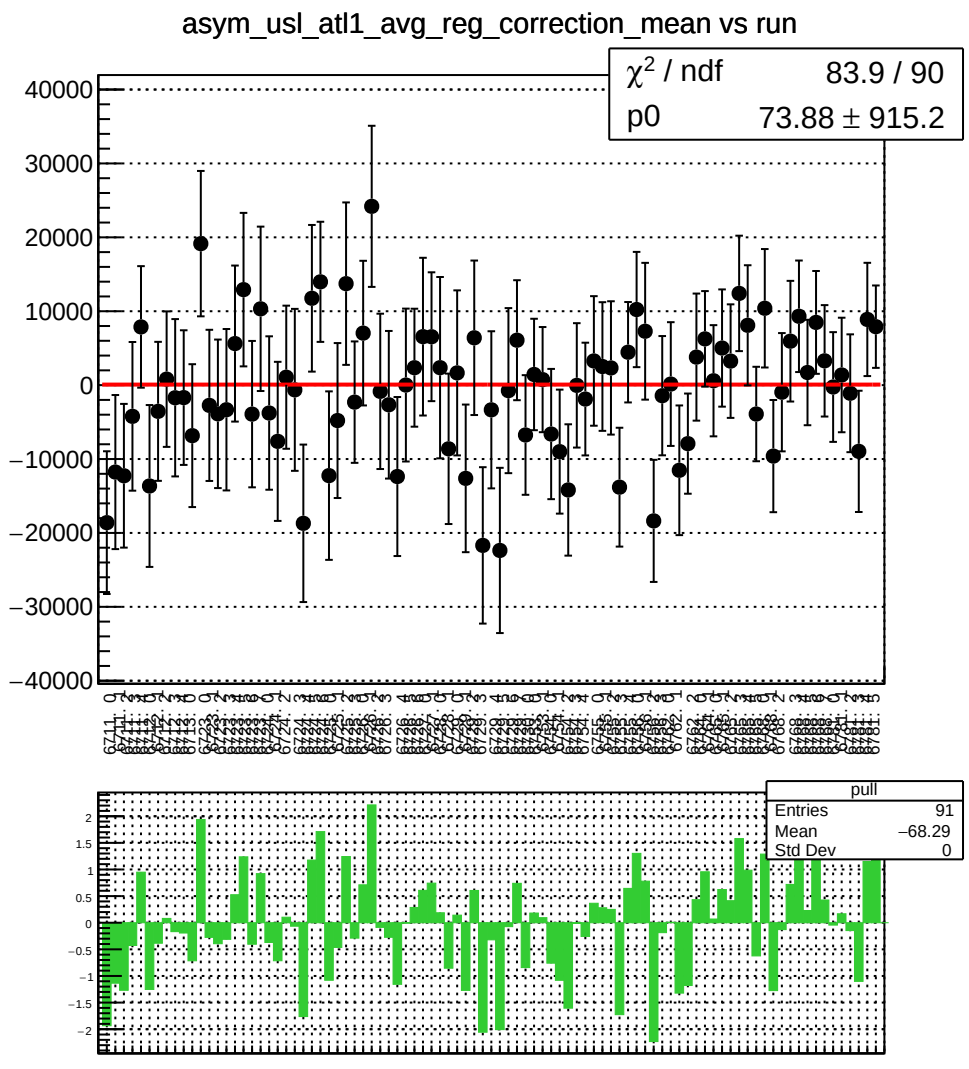

pull1D
Entries 91
Mean 0.1454
Std Dev 0.8787
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

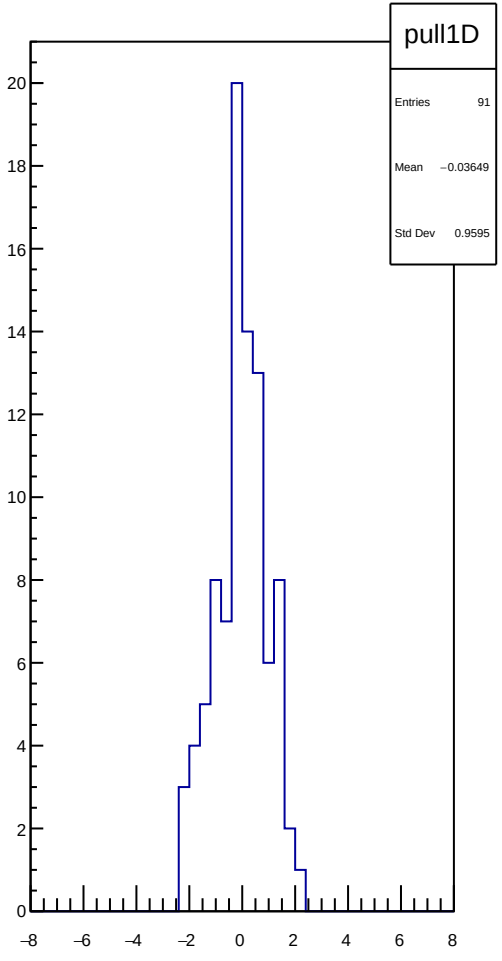

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.93e+05 / 90
p0 1.01e−11 ± 9.582e−15
90
80
70
60
50
40
30
20
10

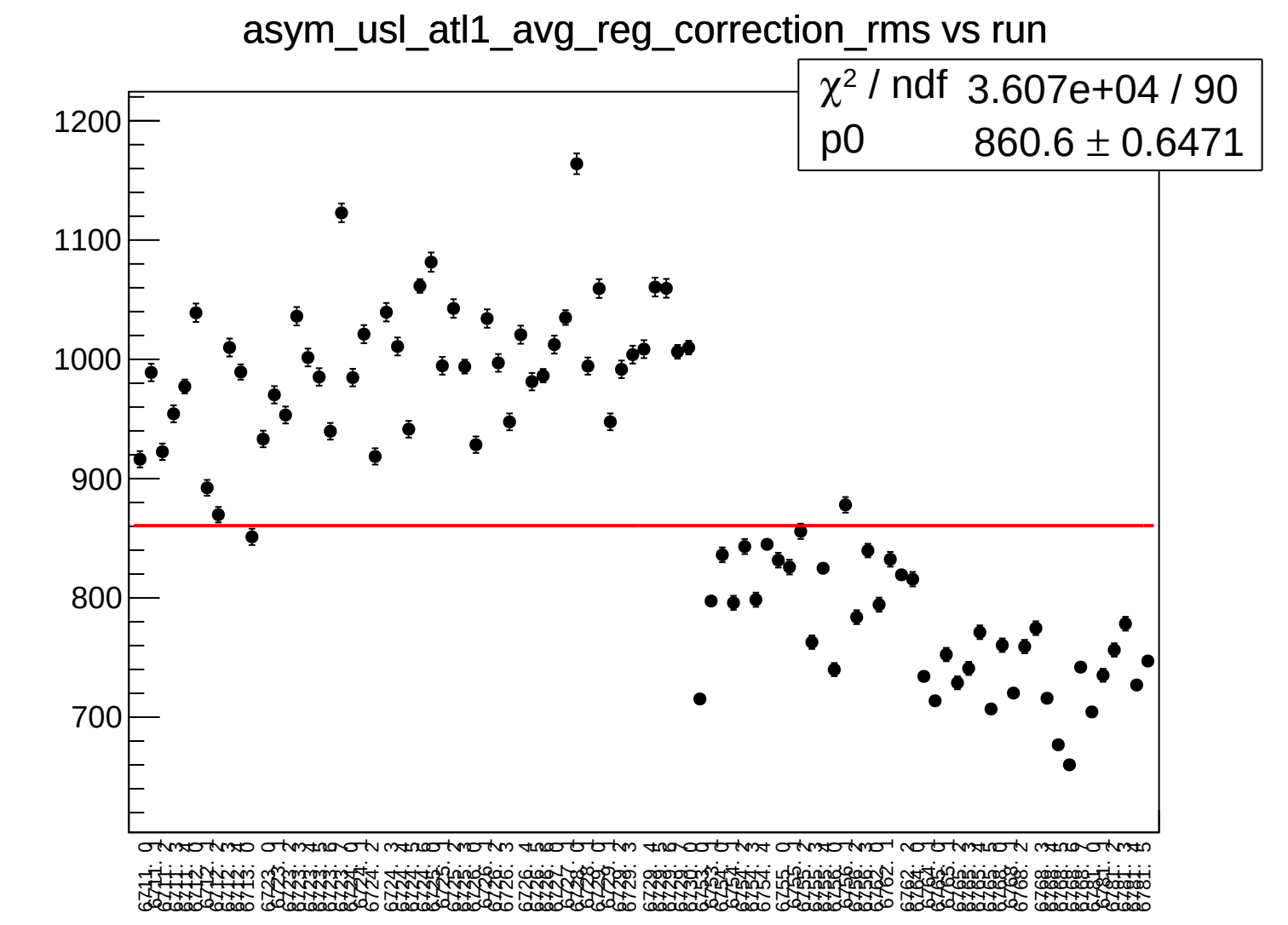

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 101 / 90
p0 −445.6 ± 1541
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −3824
Std Dev 0
2
1
0
−1
−2
−3

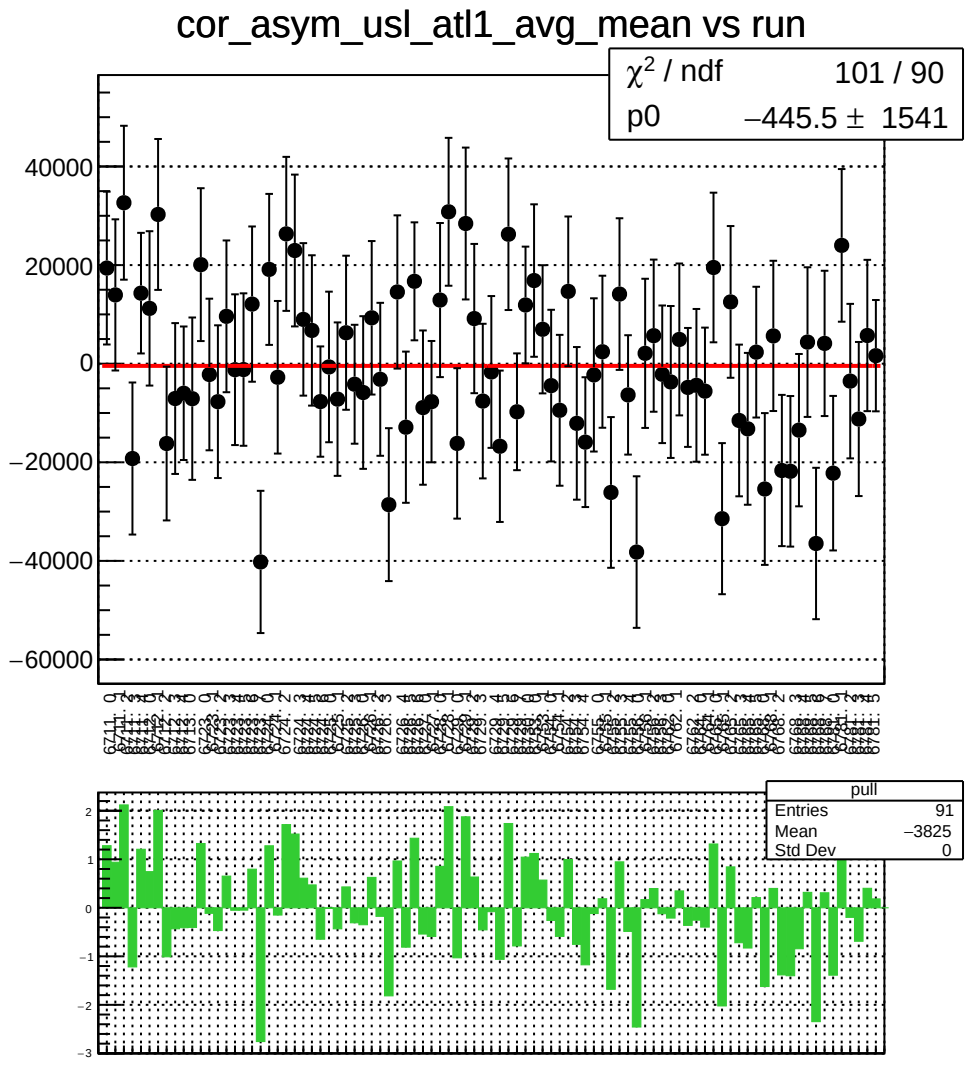

pull1D
Entries 91
Mean 0.001886
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

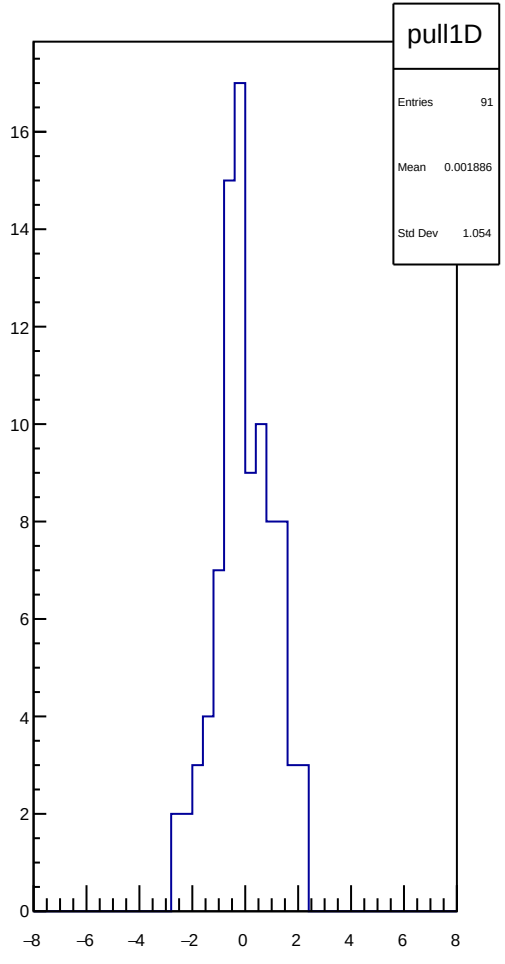

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 158.6 / 90
p0 1464 ± 1.09
1520
1500
1480
1460
1440
1420

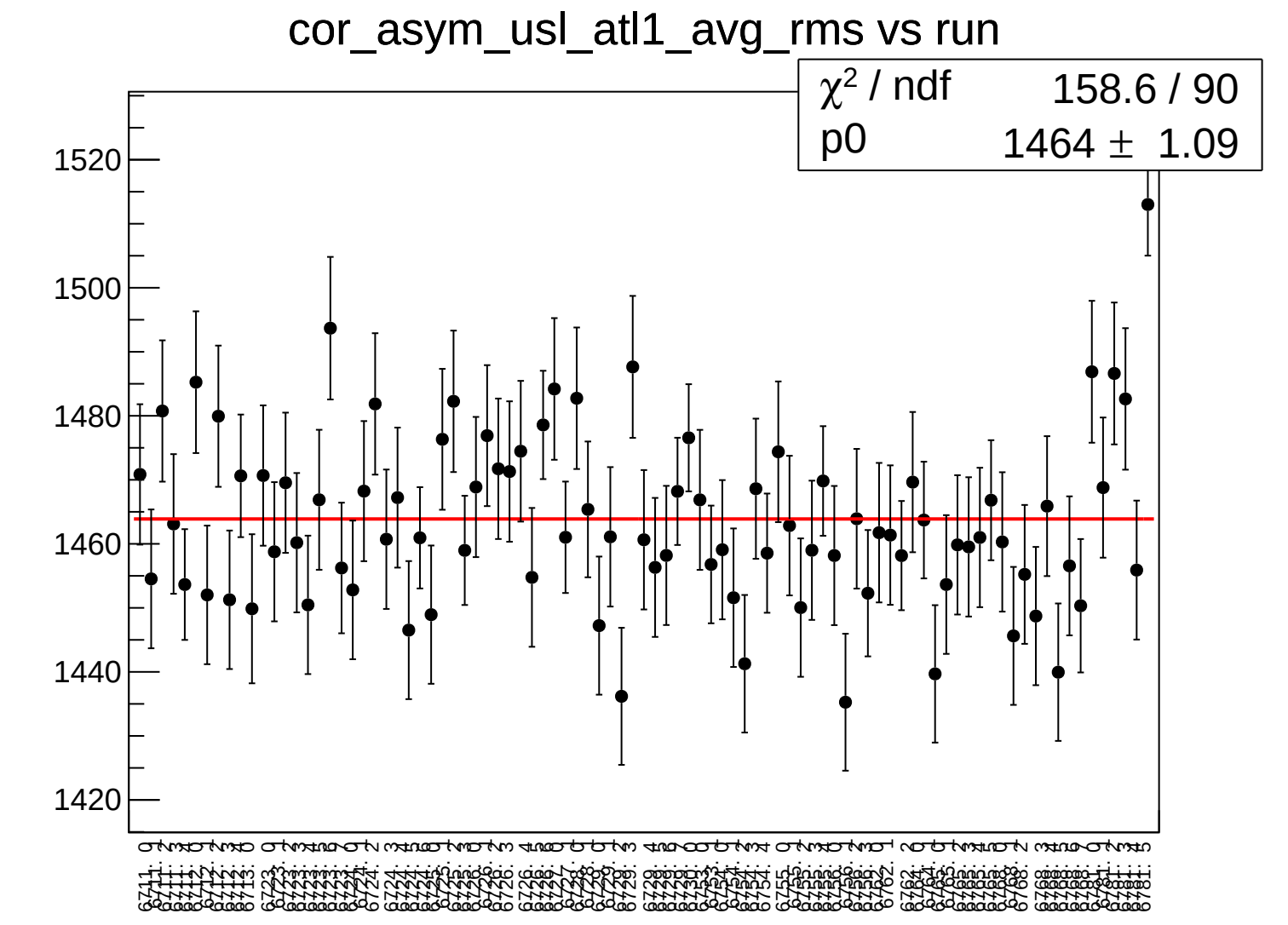

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 83.9 / 90
p0 73.88 ± 915.2
pull
Entries 91
Mean −68.29
Std Dev 0

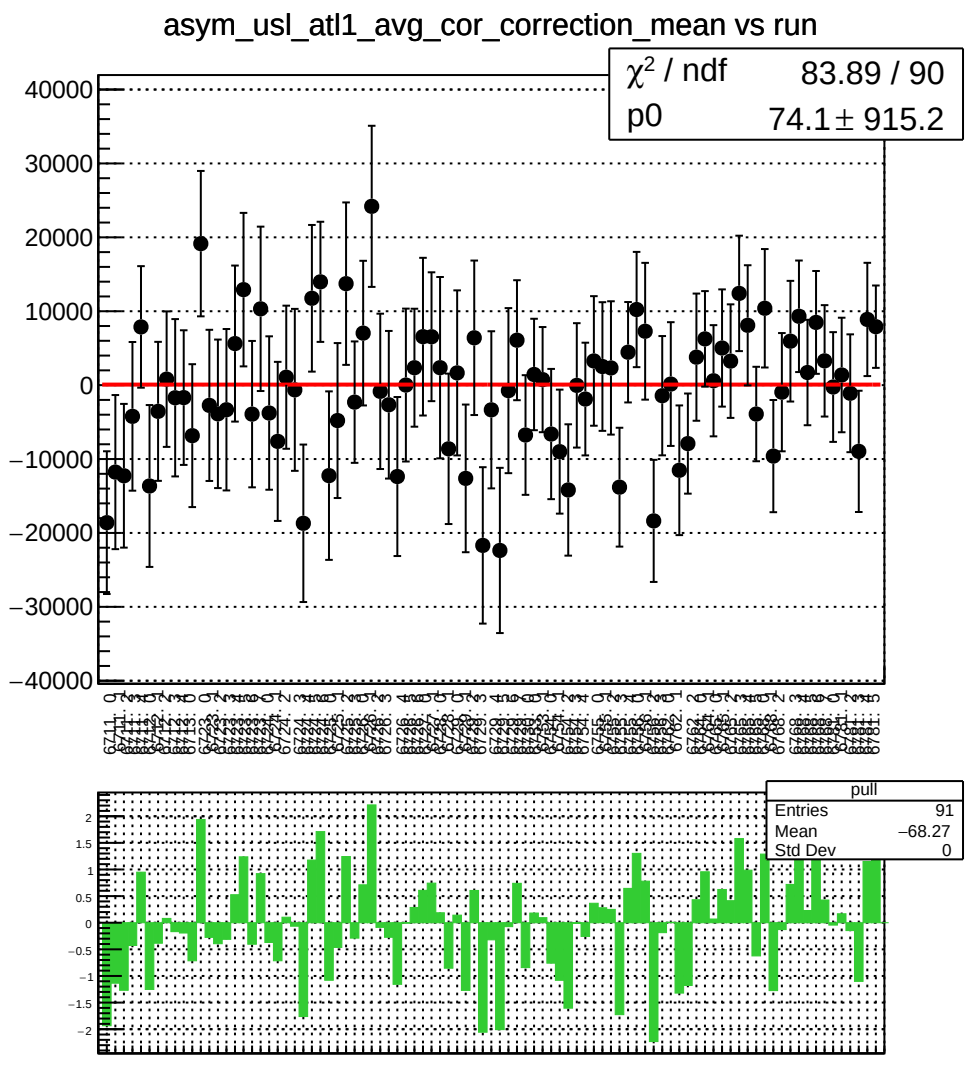

pull1D
Entries 91
Mean −0.03649
Std Dev 0.9595

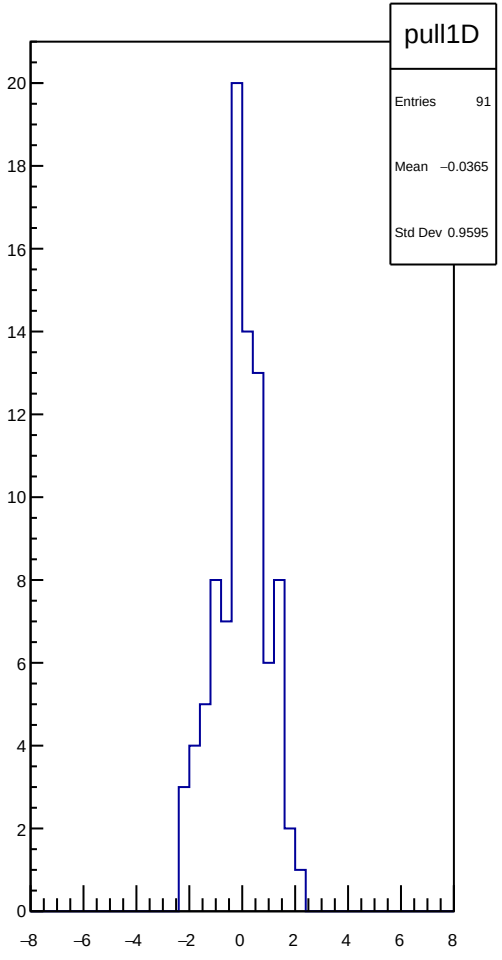

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 3.607e+04 / 90
p0 860.6 ± 0.6471
1200
1100
1000
900
800
700

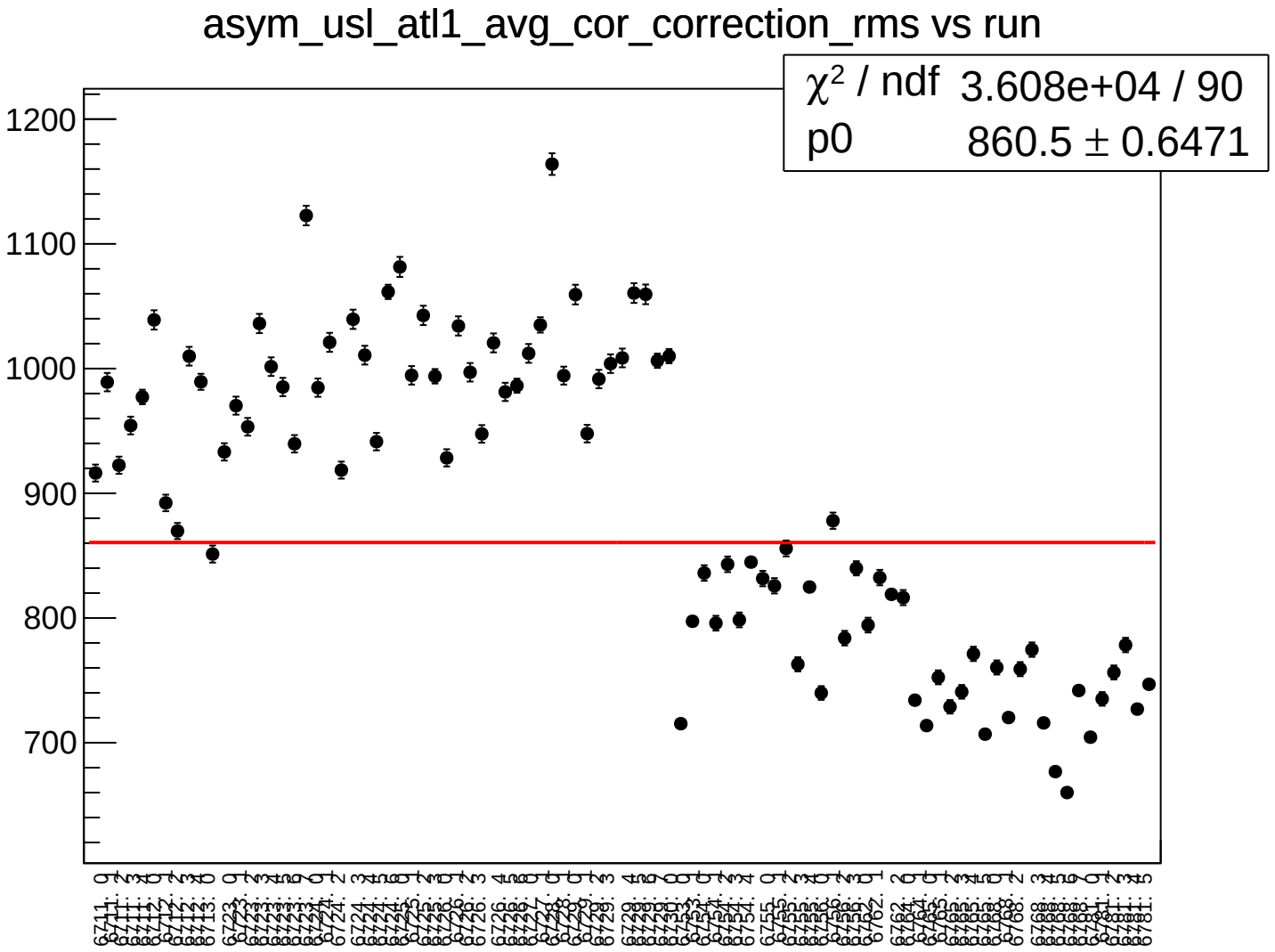

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 101 / 90
p0 −445.5 ± 1541
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −3825
Std Dev 0
2
1
0
−1
−2
−3

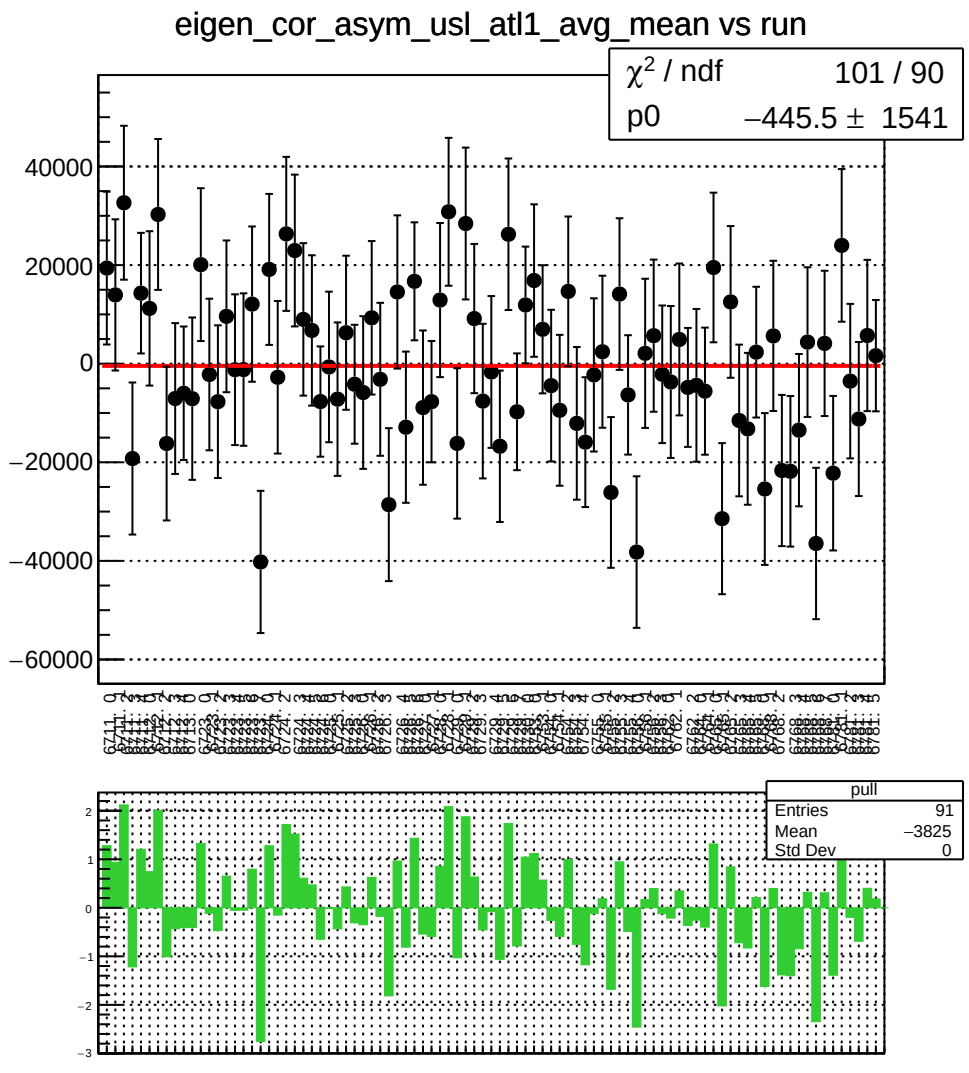

pull1D
Entries 91
Mean 0.001886
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

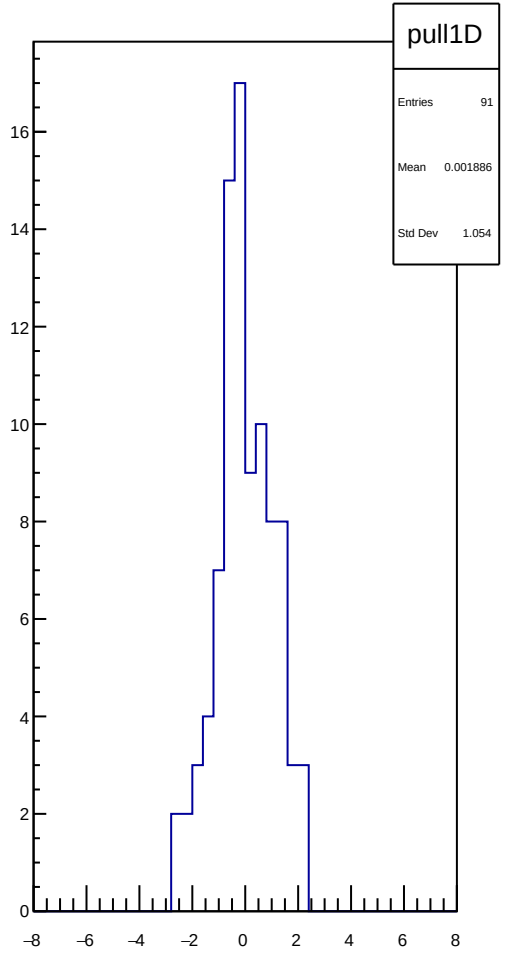

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 158.6 / 90
p0 1464 ± 1.09
1520
1500
1480
1460
1440
1420

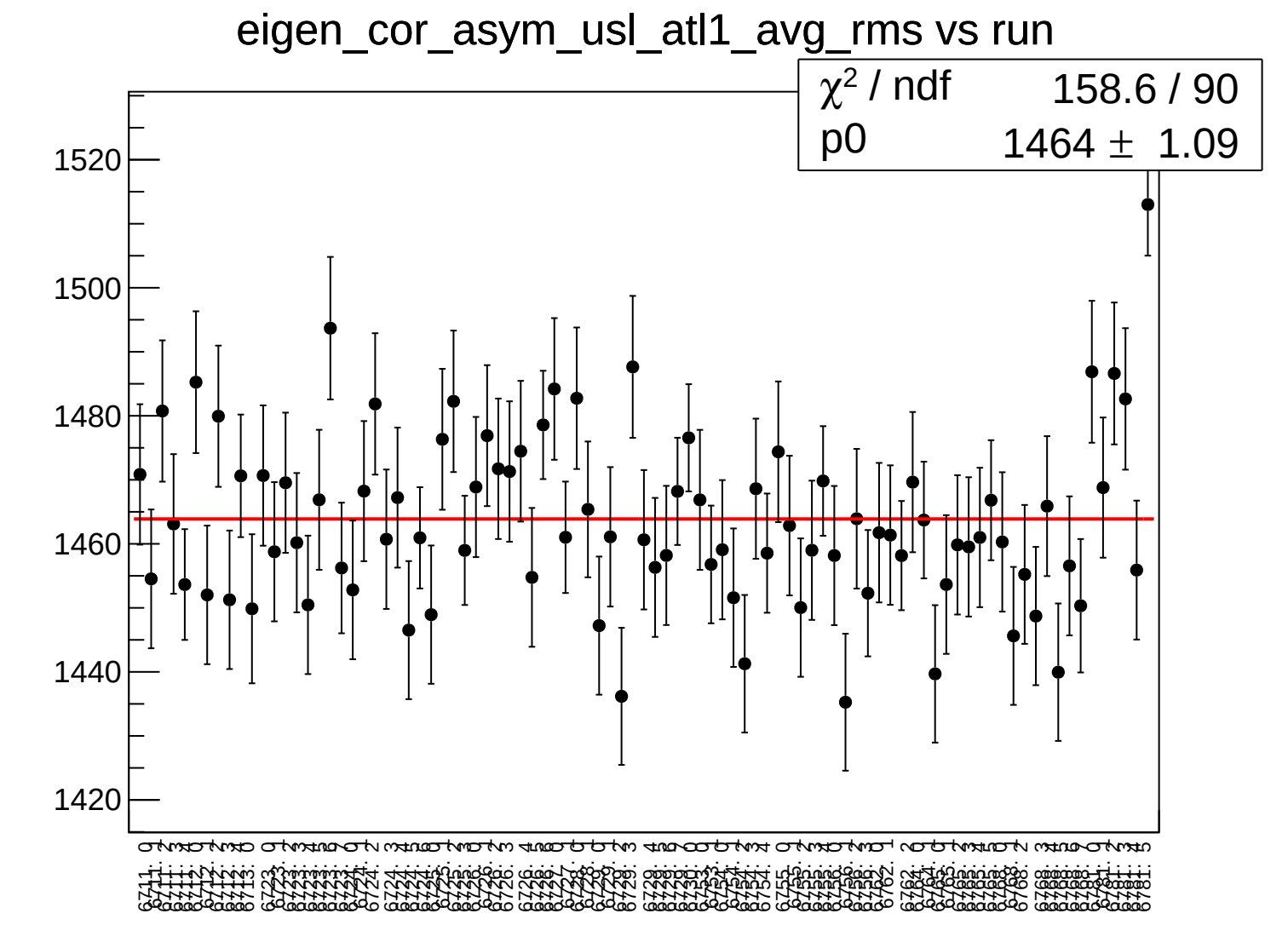

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 83.89 / 90
p0 74.1 ± 915.2
pull
Entries 91
Mean −68.27
Std Dev 0

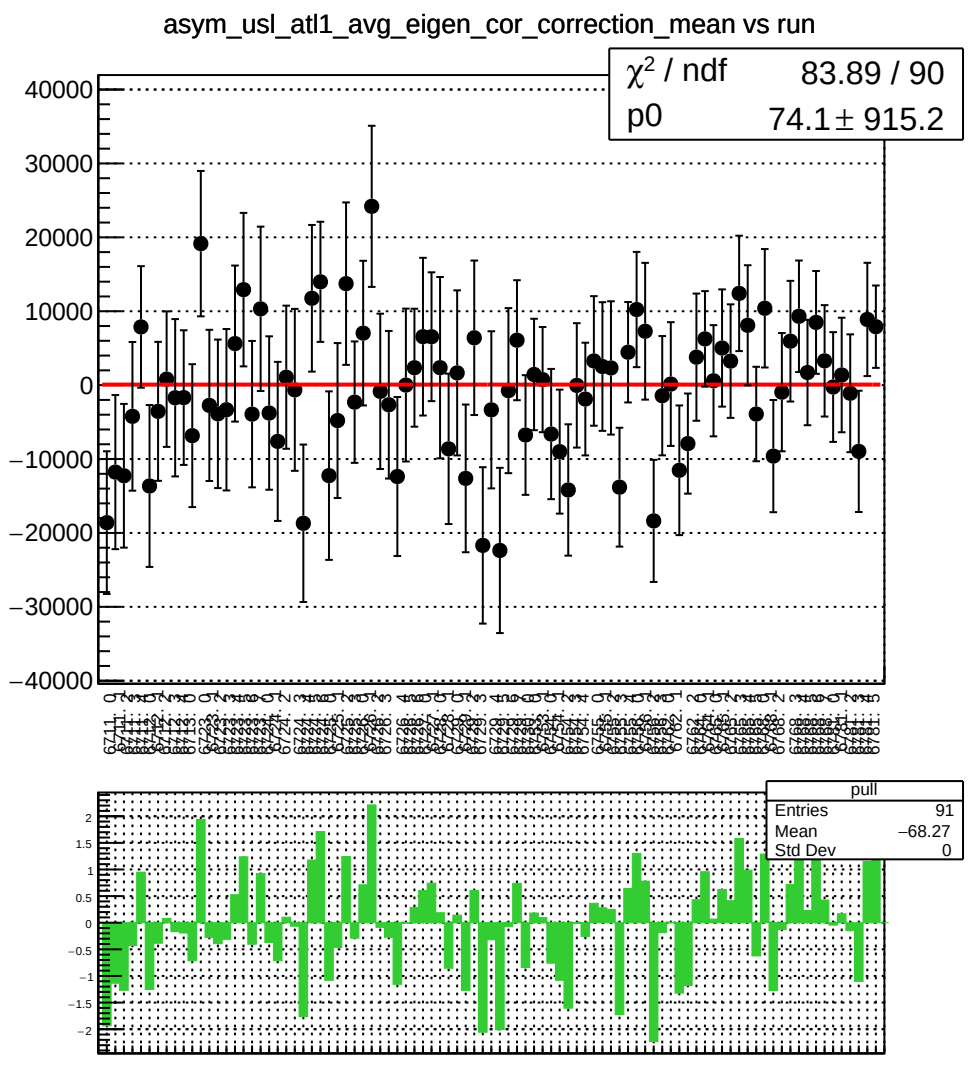

pull1D
Entries 91
Mean −0.0365
Std Dev 0.9595

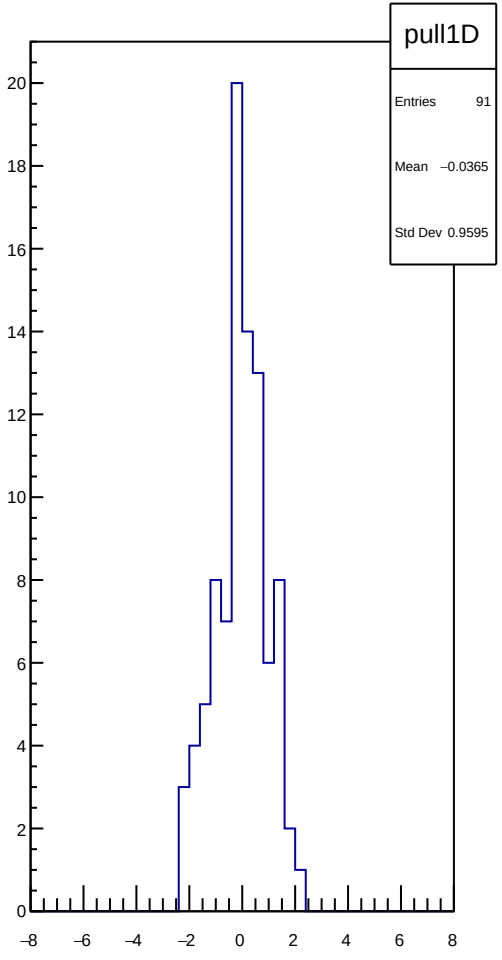

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 3.608e+04 / 90
p0 860.5 ± 0.6471
1200
1100
1000
900
800
700

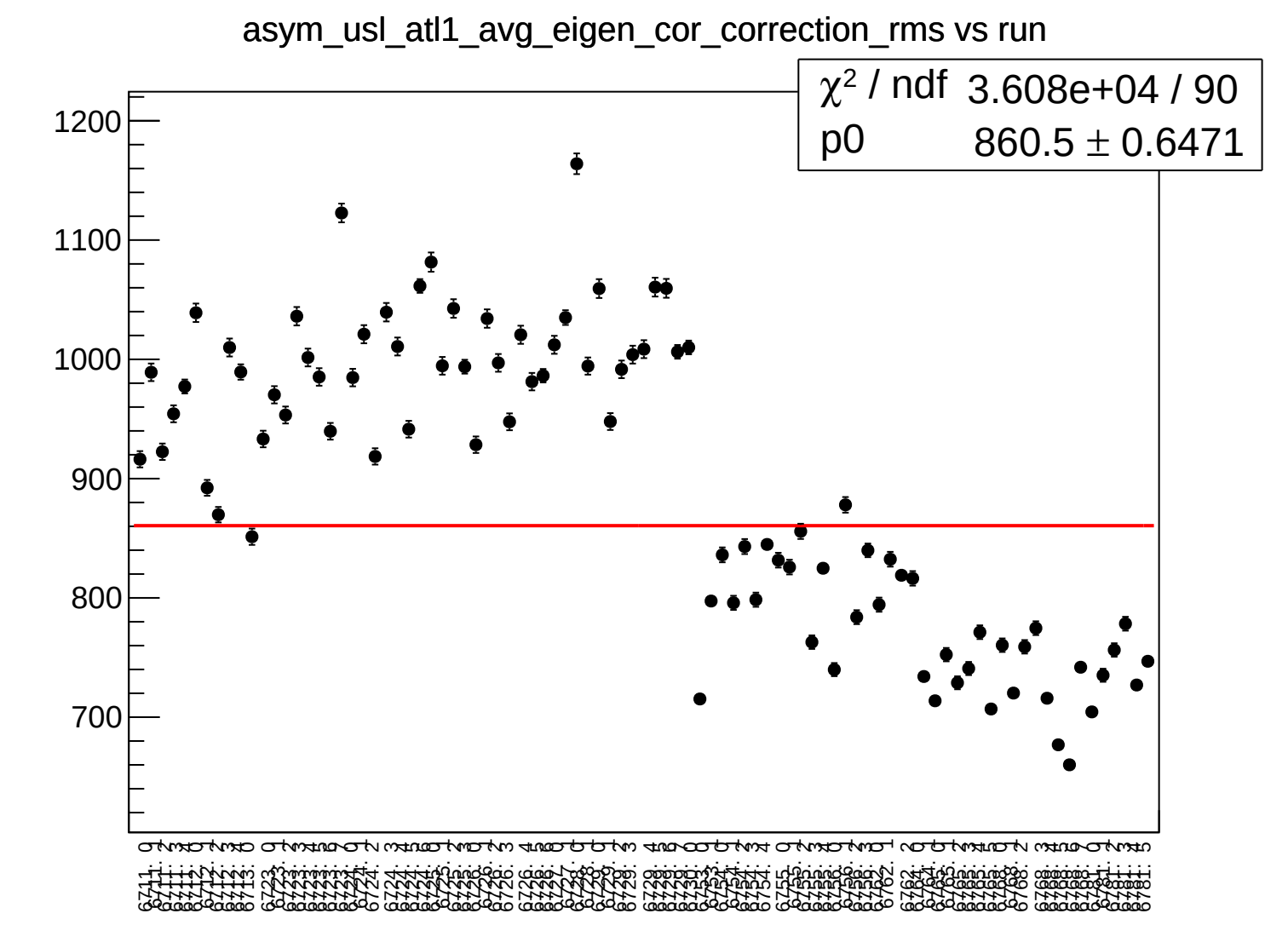

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 101 / 90
p0 −445.5 ± 1541
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −3825
Std Dev 0
2
1
0
−1
−2
−3

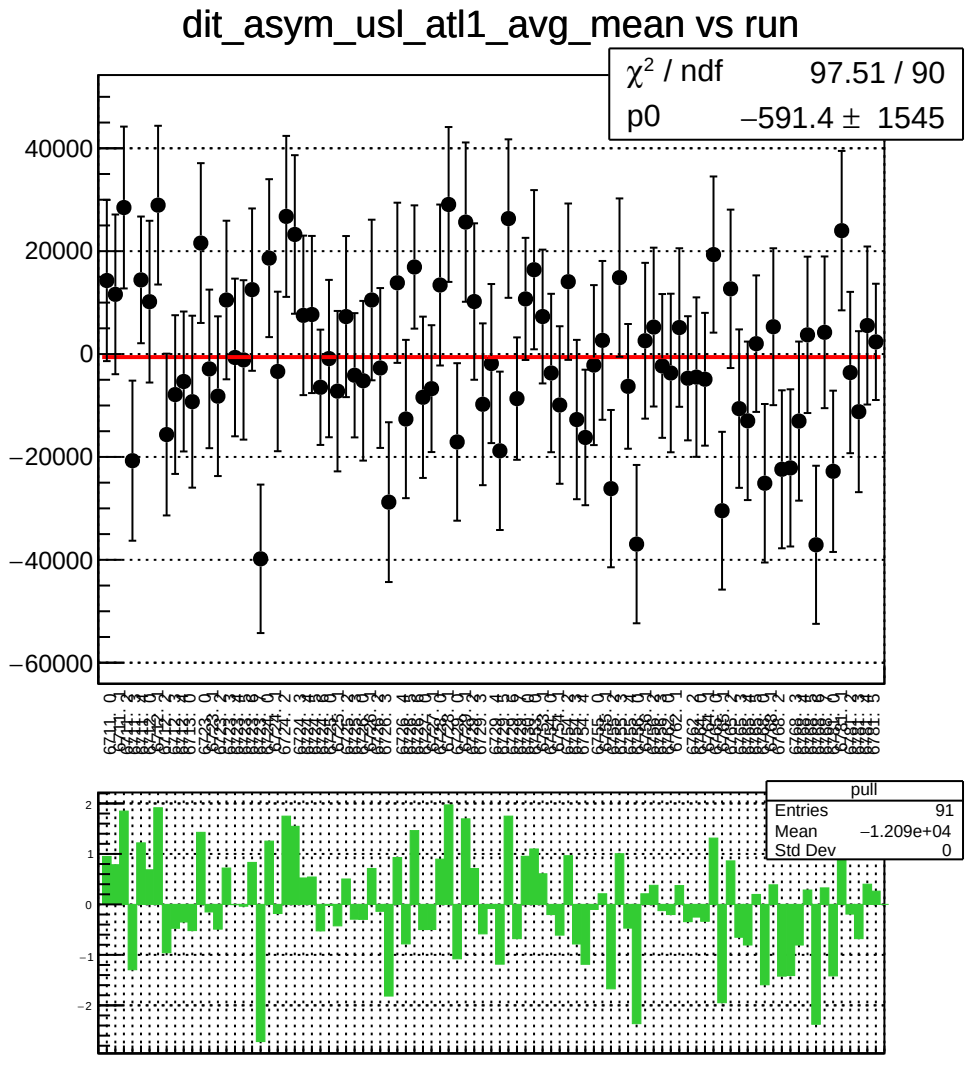

pull1D
Entries 91
Mean 0.001886
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

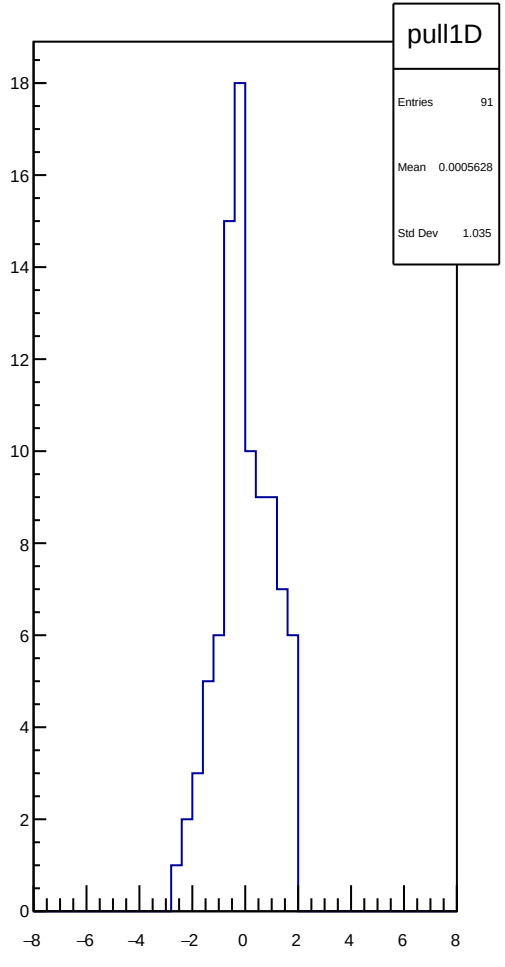

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 158.6 / 90
p0 1464 ± 1.09
1520
1500
1480
1460
1440
1420

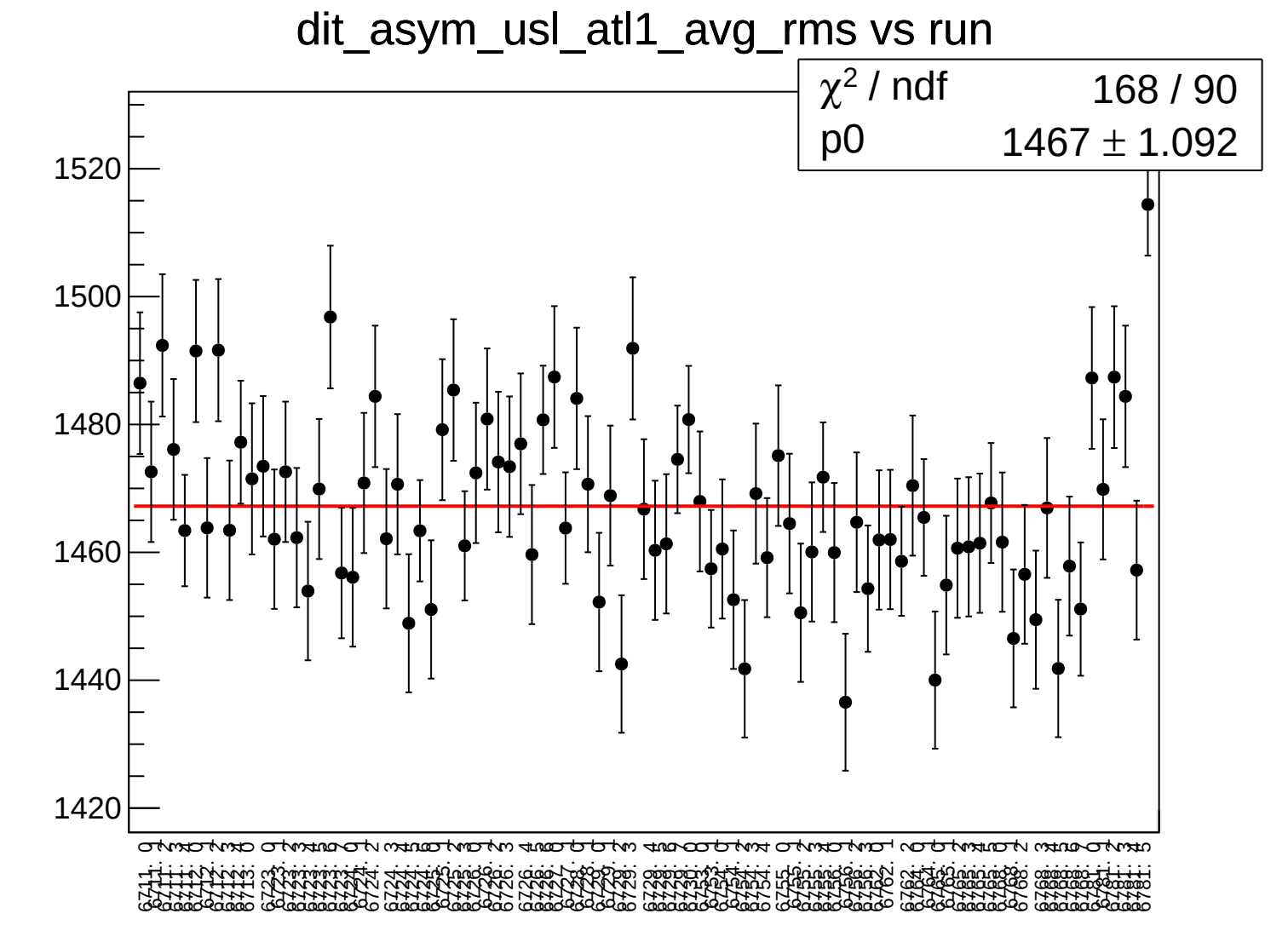

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.89 / 90
p0 74.1 ± 915.2
pull
Entries 91
Mean −68.27
Std Dev 0

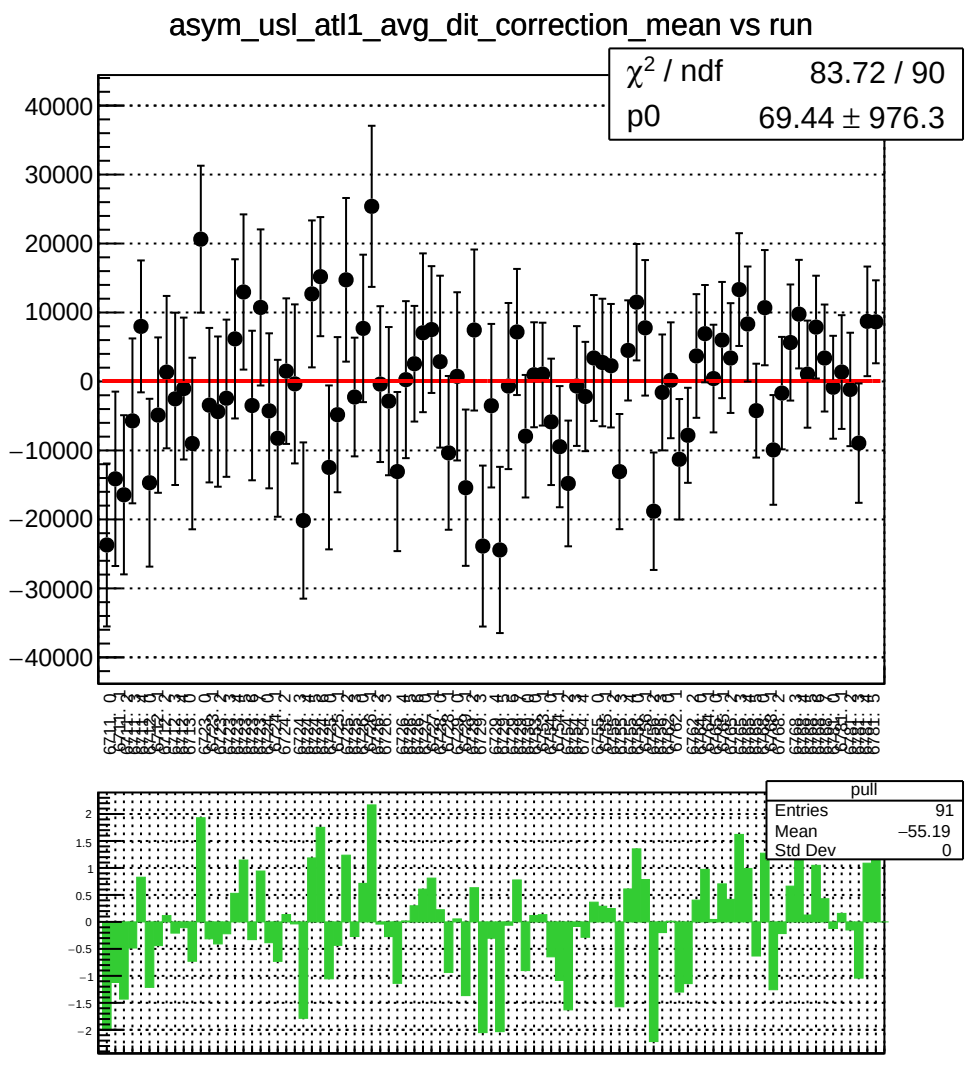

pull1D
Entries 91
Mean −0.0365
Std Dev 0.9595

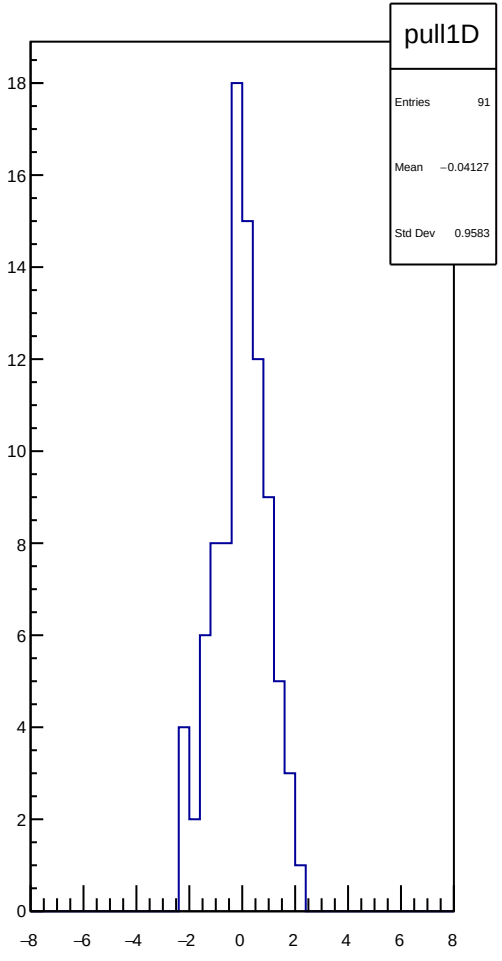

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.608e+04 / 90
p0 860.5 ± 0.6471
1200
1100
1000
900
800
700

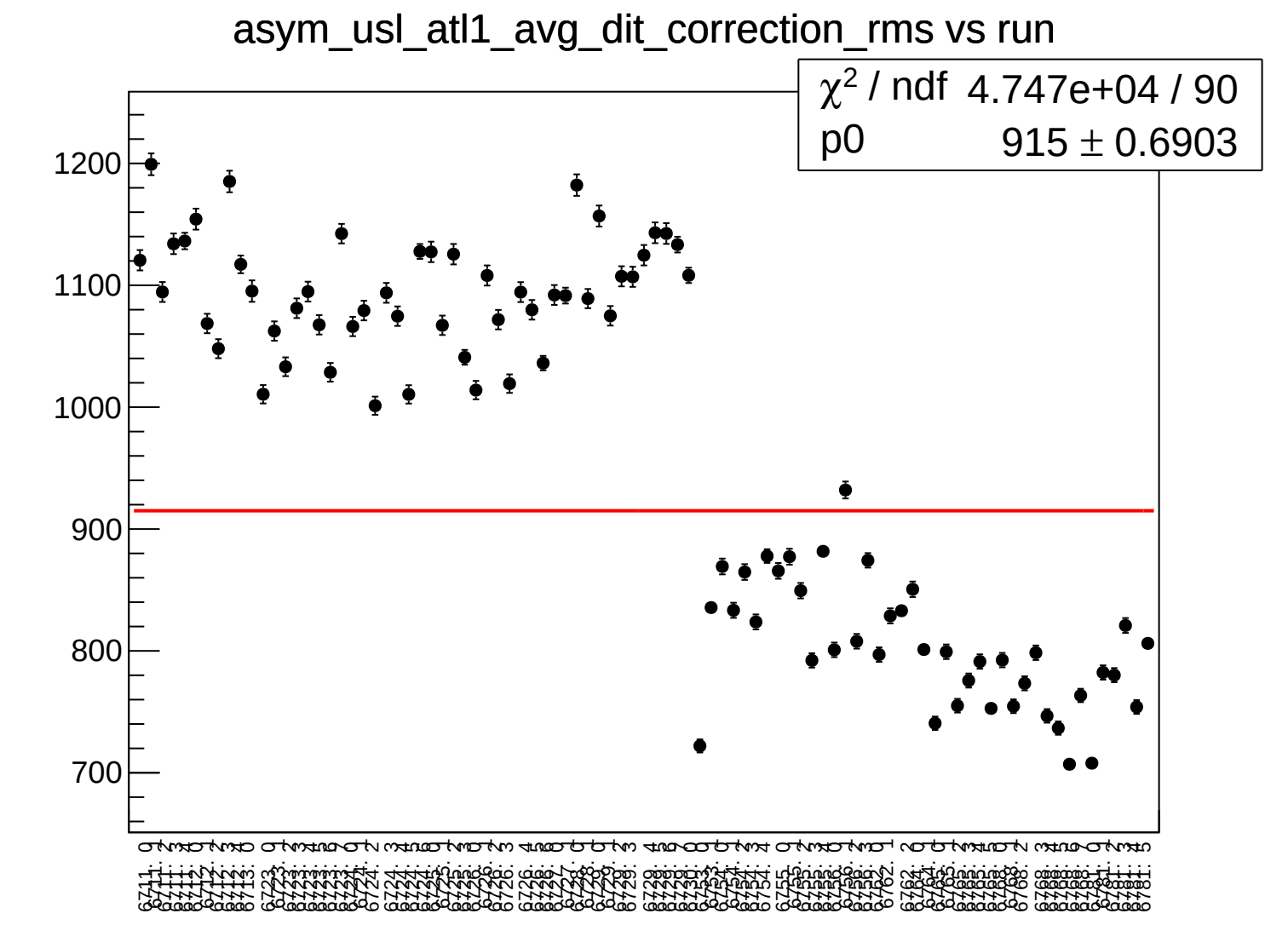

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 97.51 / 90
p0 −591.4 ± 1545
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −1.209e+04
Std Dev 0
2
1
0
−1
−2

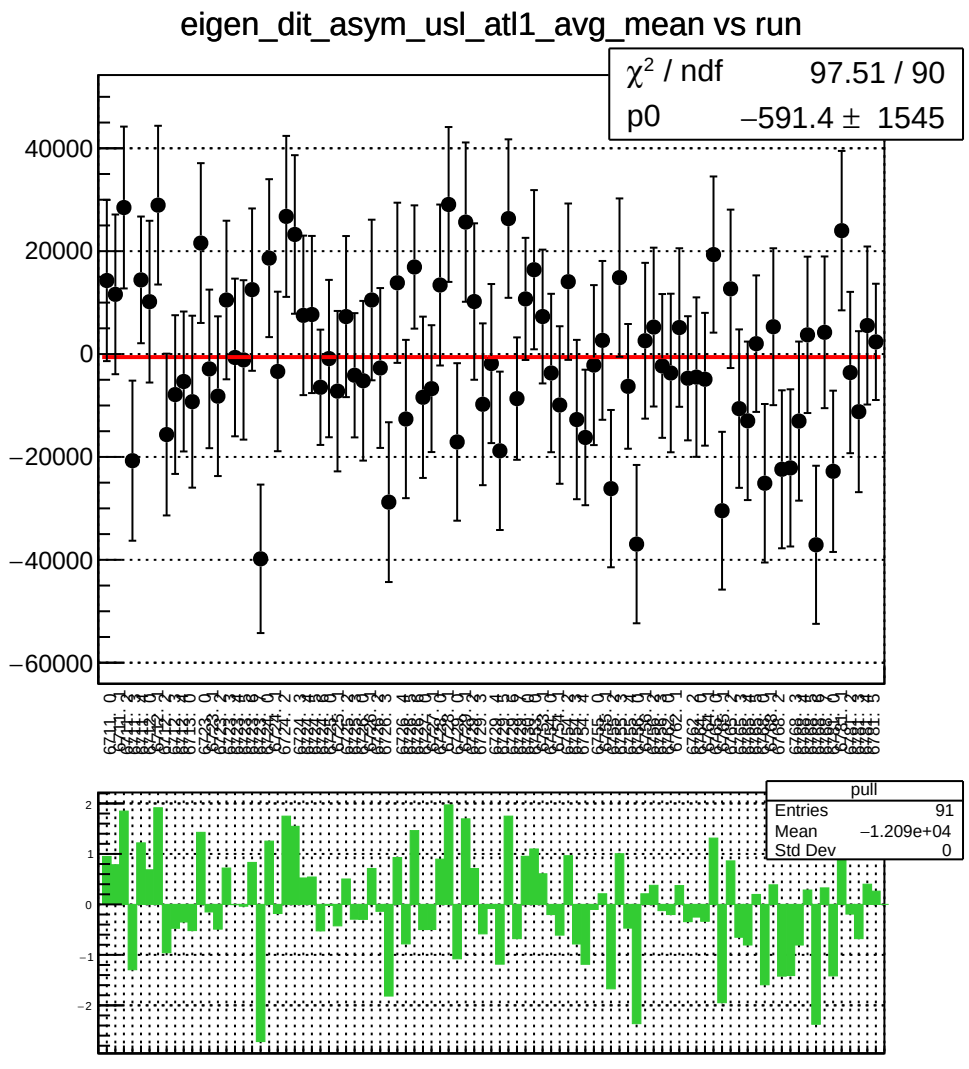

pull1D
Entries 91
Mean 0.0005628
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

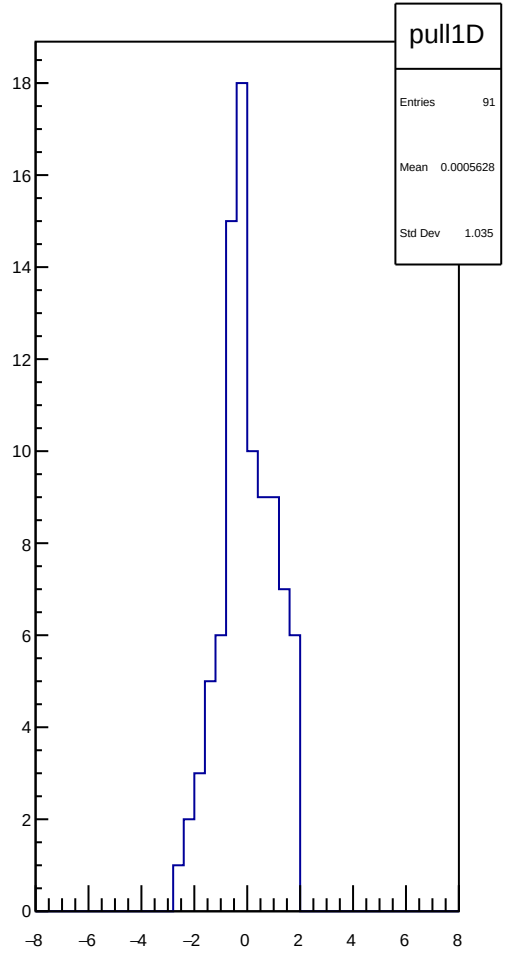

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 168 / 90
p0 1467 ± 1.092
1520
1500
1480
1460
1440
1420

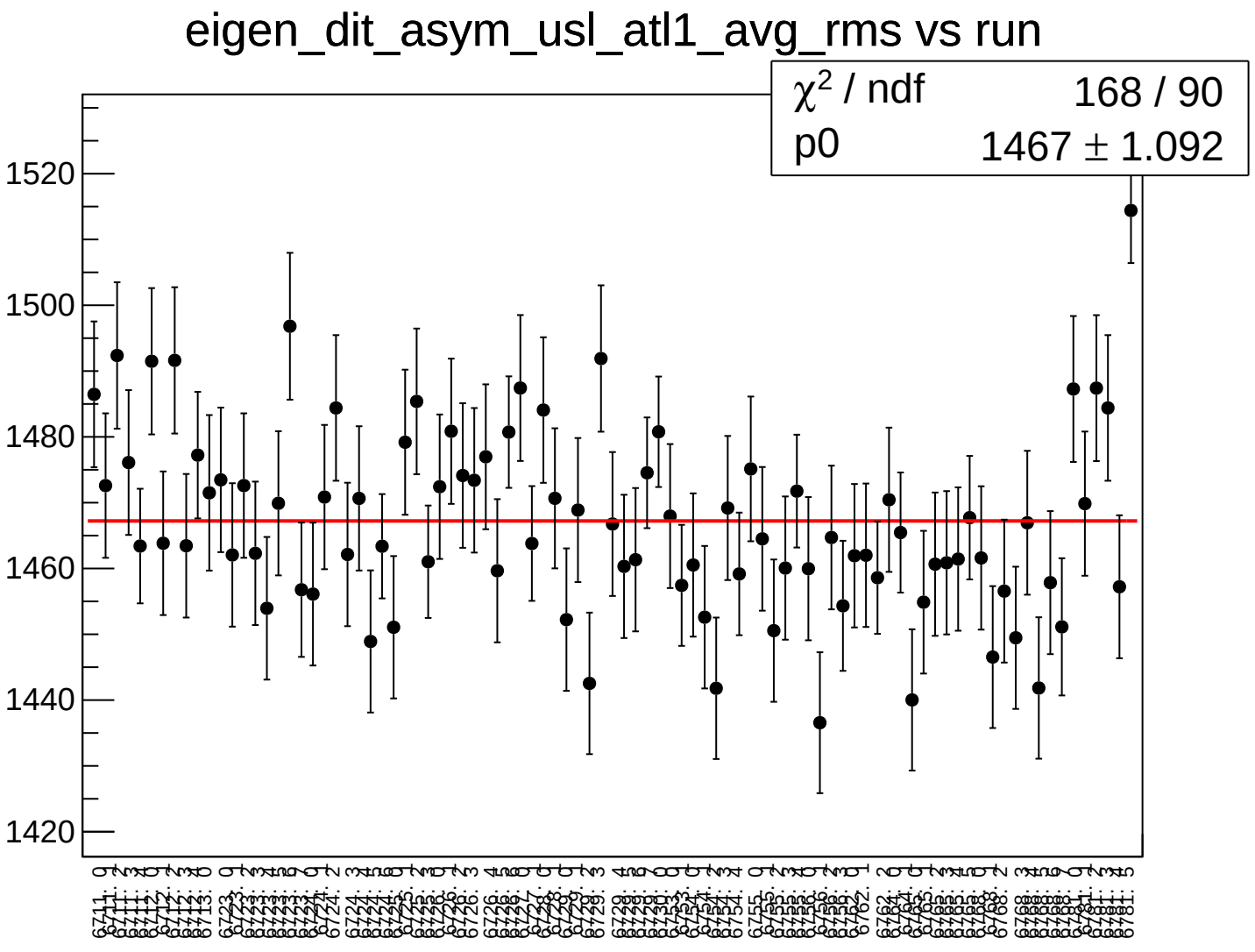

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 83.72 / 90
p0 69.44 ± 976.3
pull
Entries 91
Mean −55.19
Std Dev 0

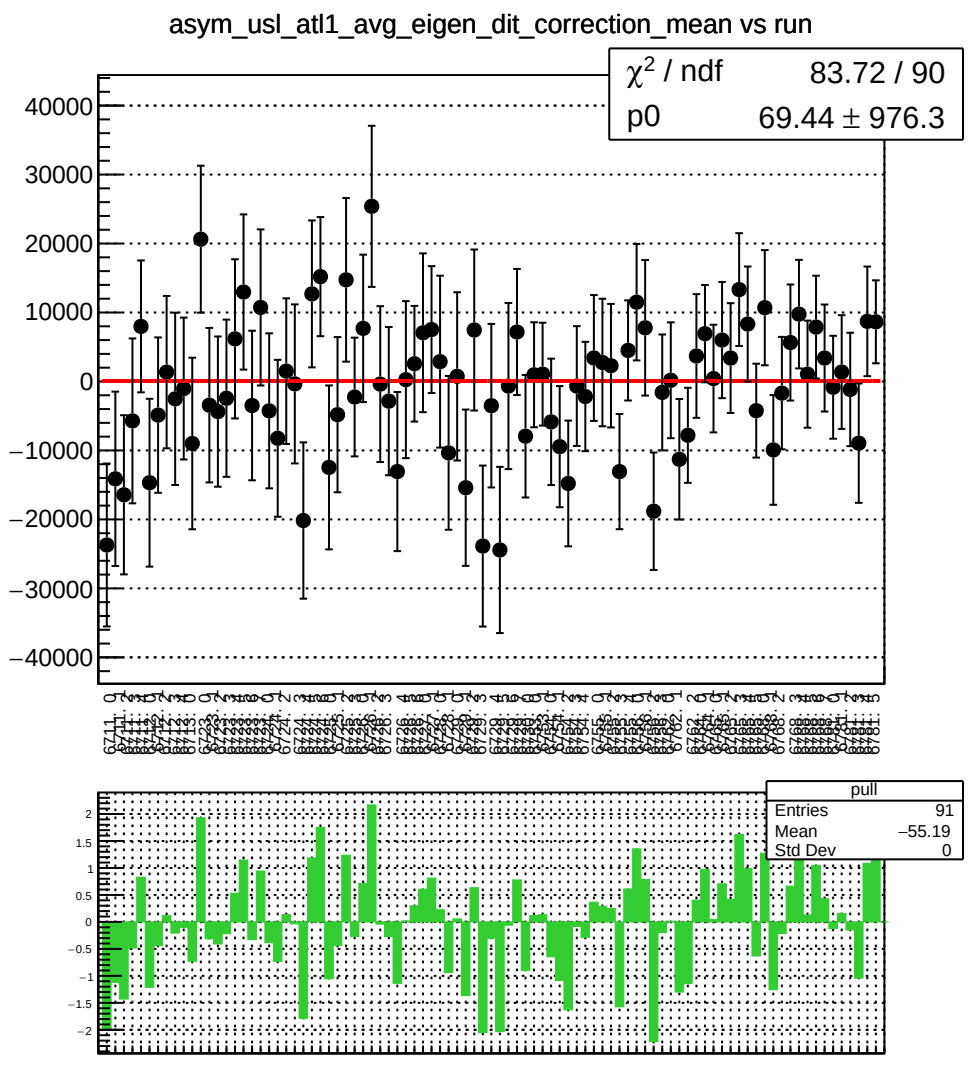

pull1D
Entries 91
Mean −0.04127
Std Dev 0.9583

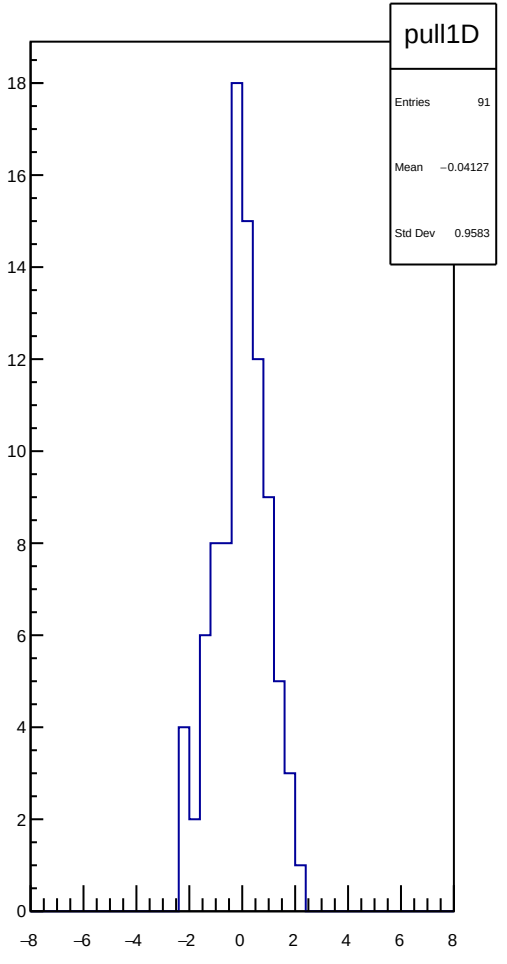

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 4.747e+04 / 90
p0 915 ± 0.6903
1200
1100
1000
900
800
700

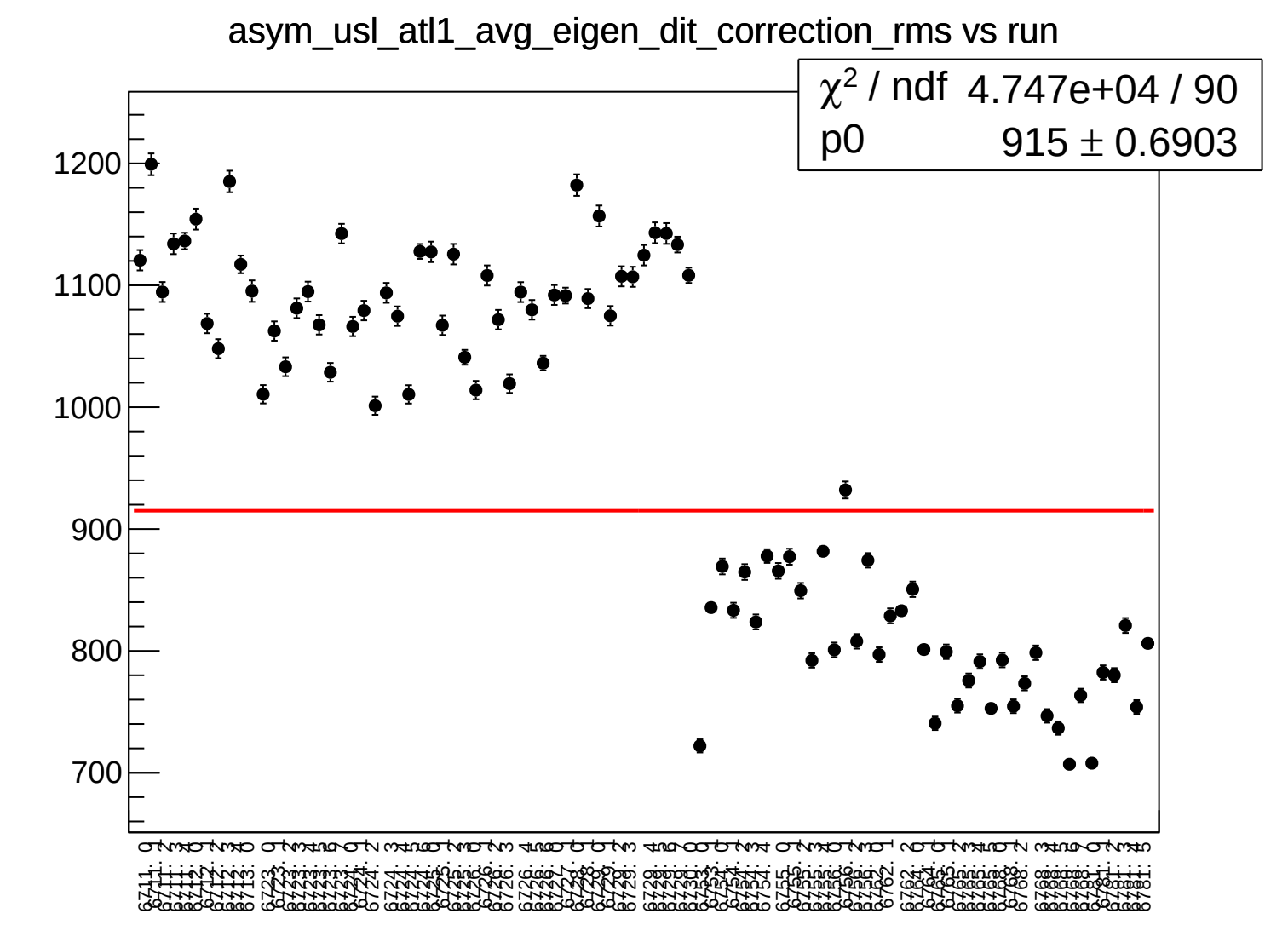

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 97.51 / 90
p0 −591.4 ± 1545
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −1.209e+04
Std Dev 0
2
1
0
−1
−2

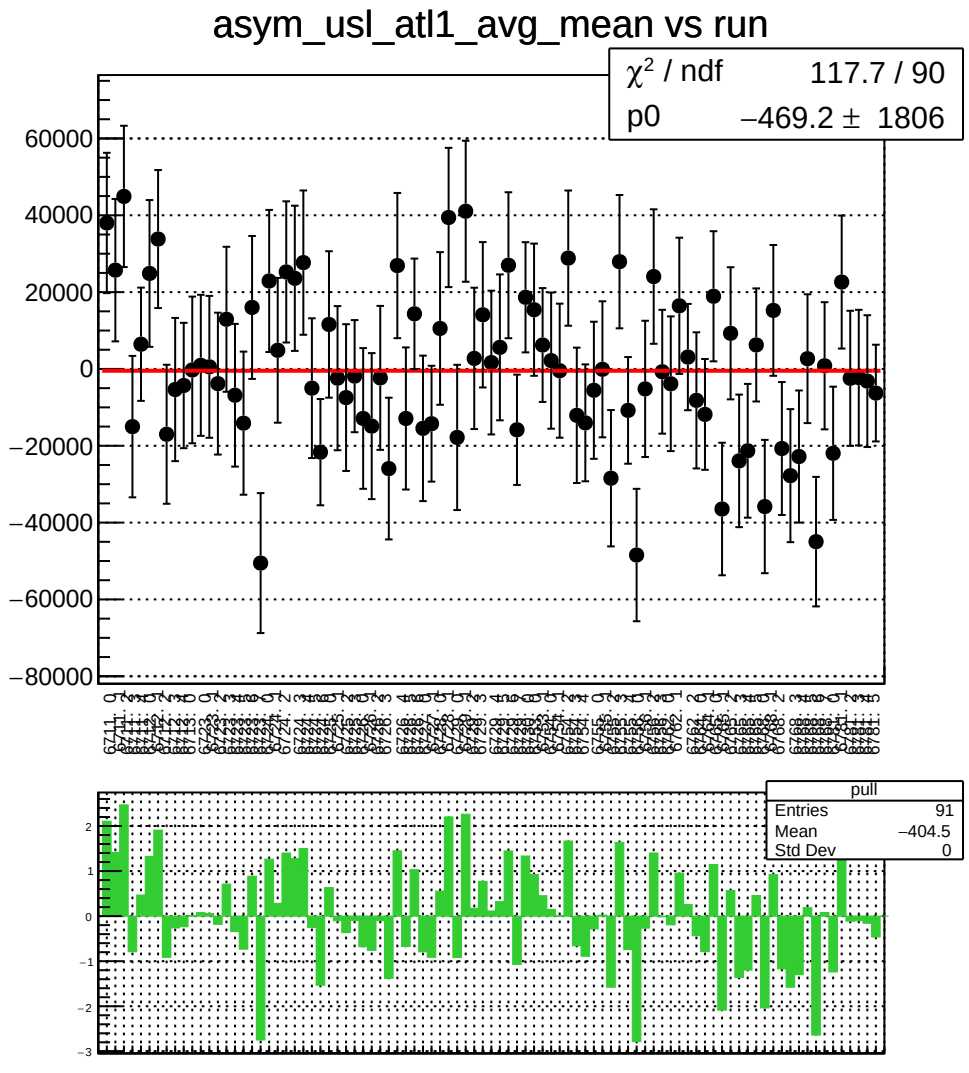

pull1D
Entries 91
Mean 0.0005628
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

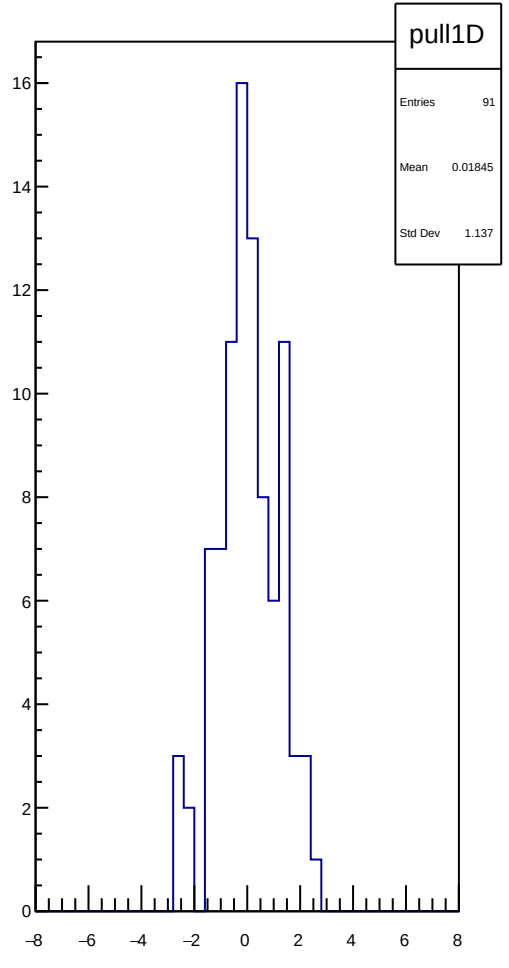

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 168 / 90
p0 1467 ± 1.092
1520
1500
1480
1460
1440
1420

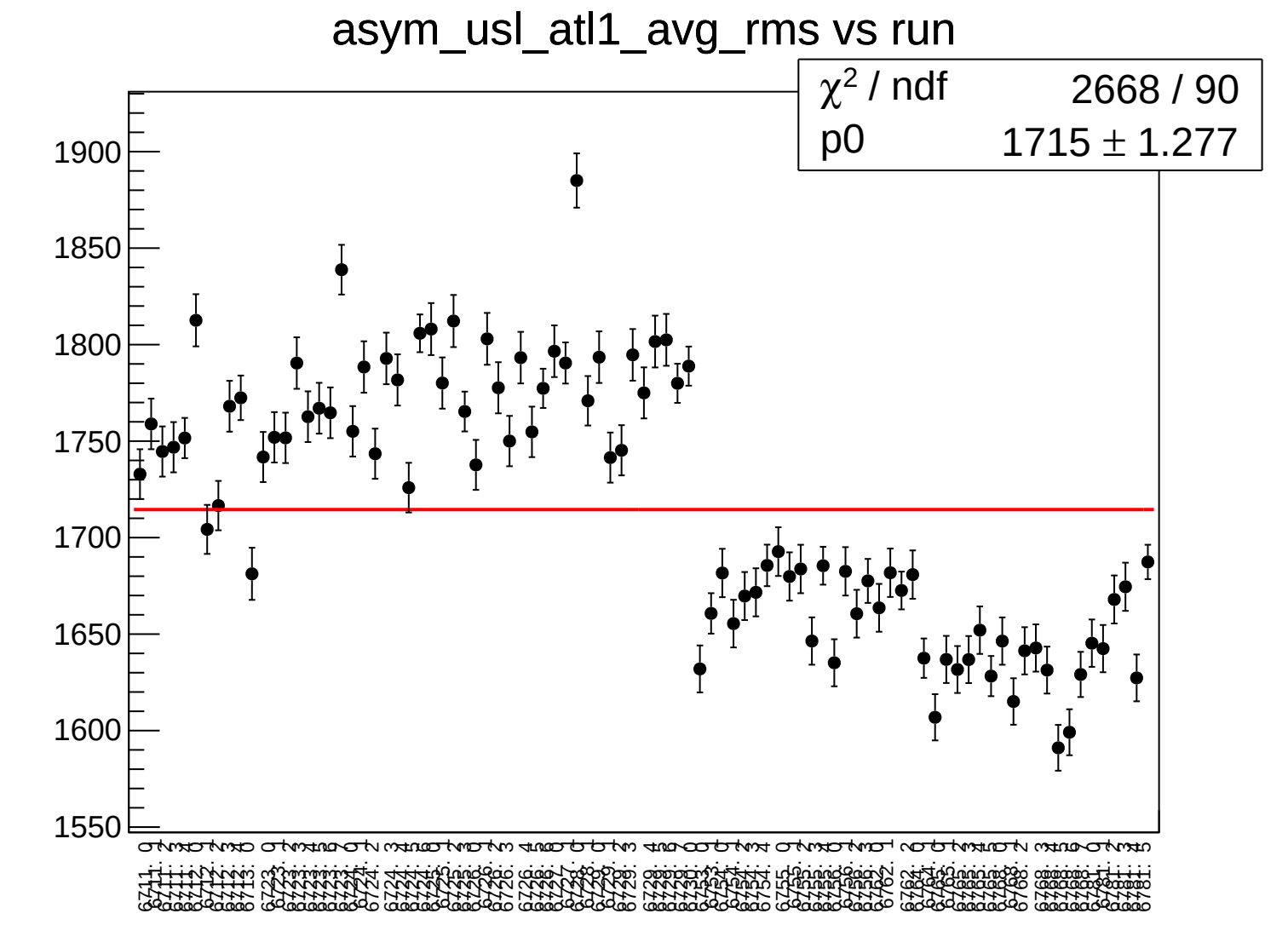

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 83.72 / 90
p0 69.44 ± 976.3
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean −55.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

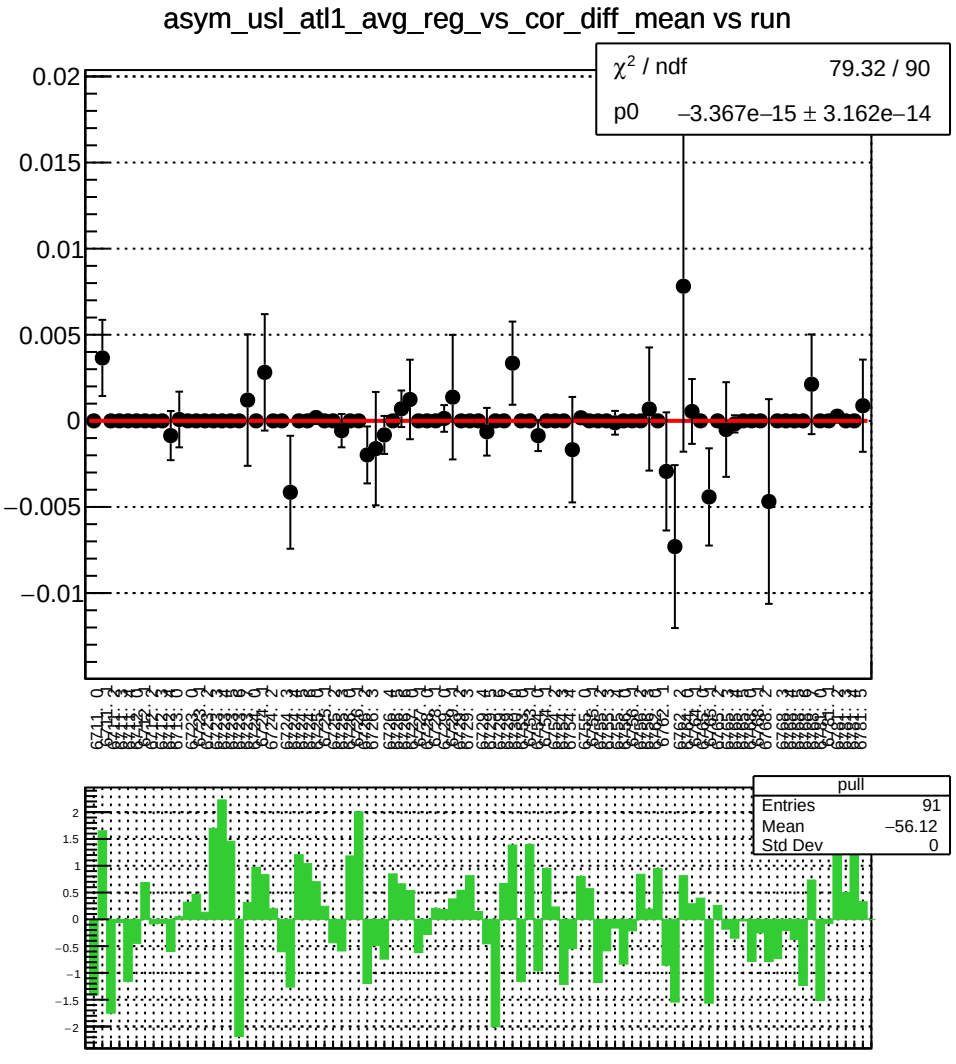

pull1D
Entries 91
Mean −0.04127
Std Dev 0.9583
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

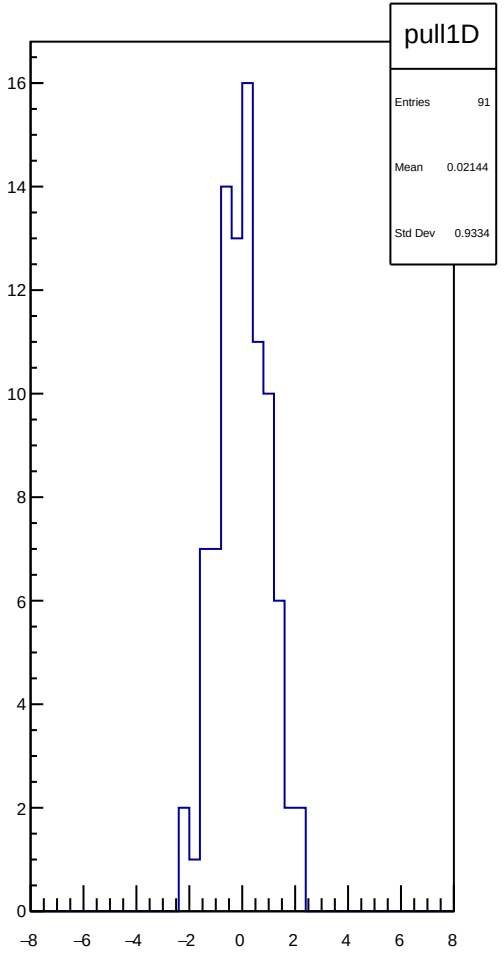

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.747e+04 / 90
p0 915 ± 0.6903
1200
1100
1000
900
800
700

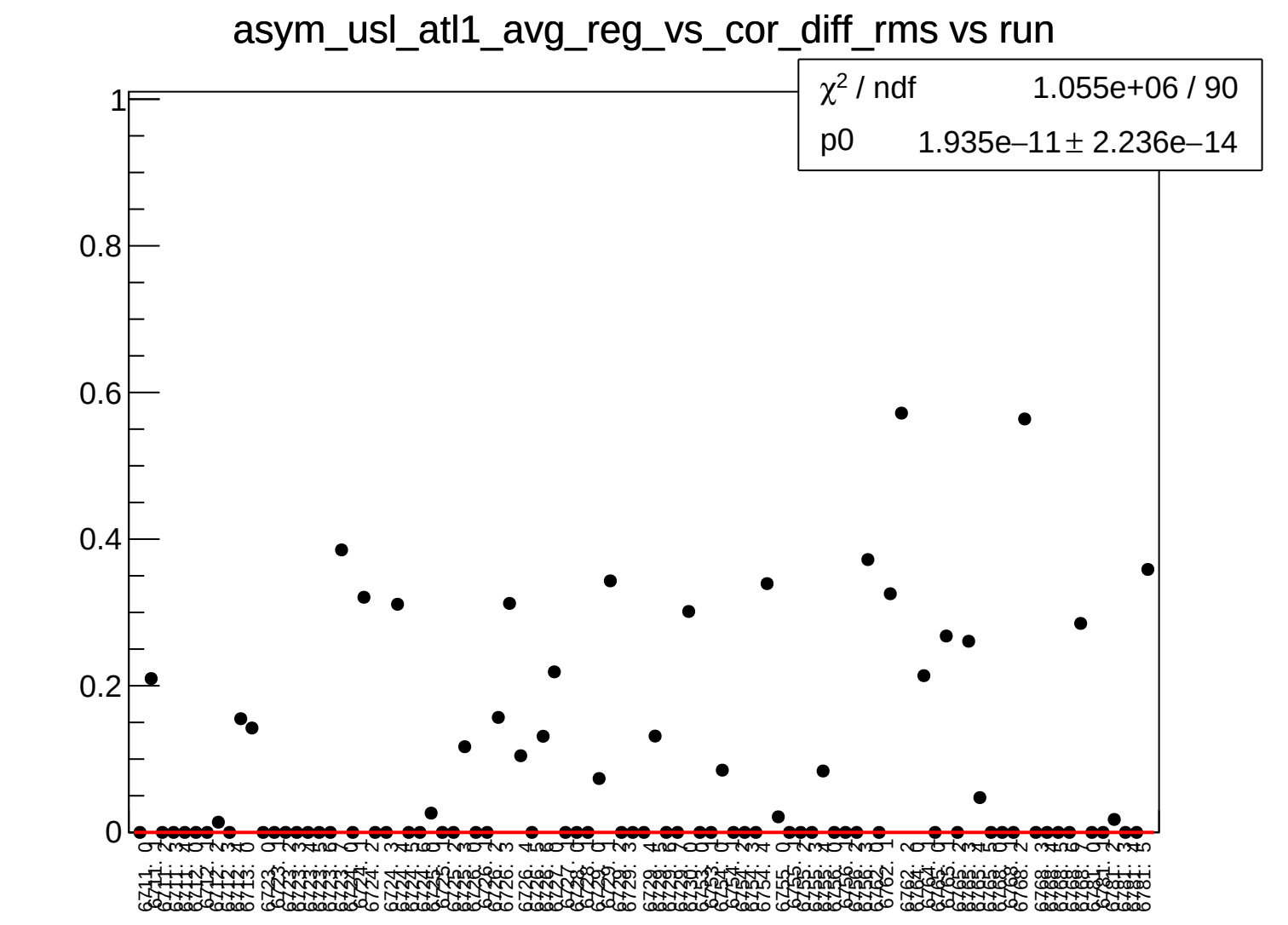

asym_usl_atl1_avg_mean vs run
χ² / ndf 117.7 / 90
p0 −469.2 ± 1806
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −404.5
Std Dev 0
2
1
0
−1
−2
−3

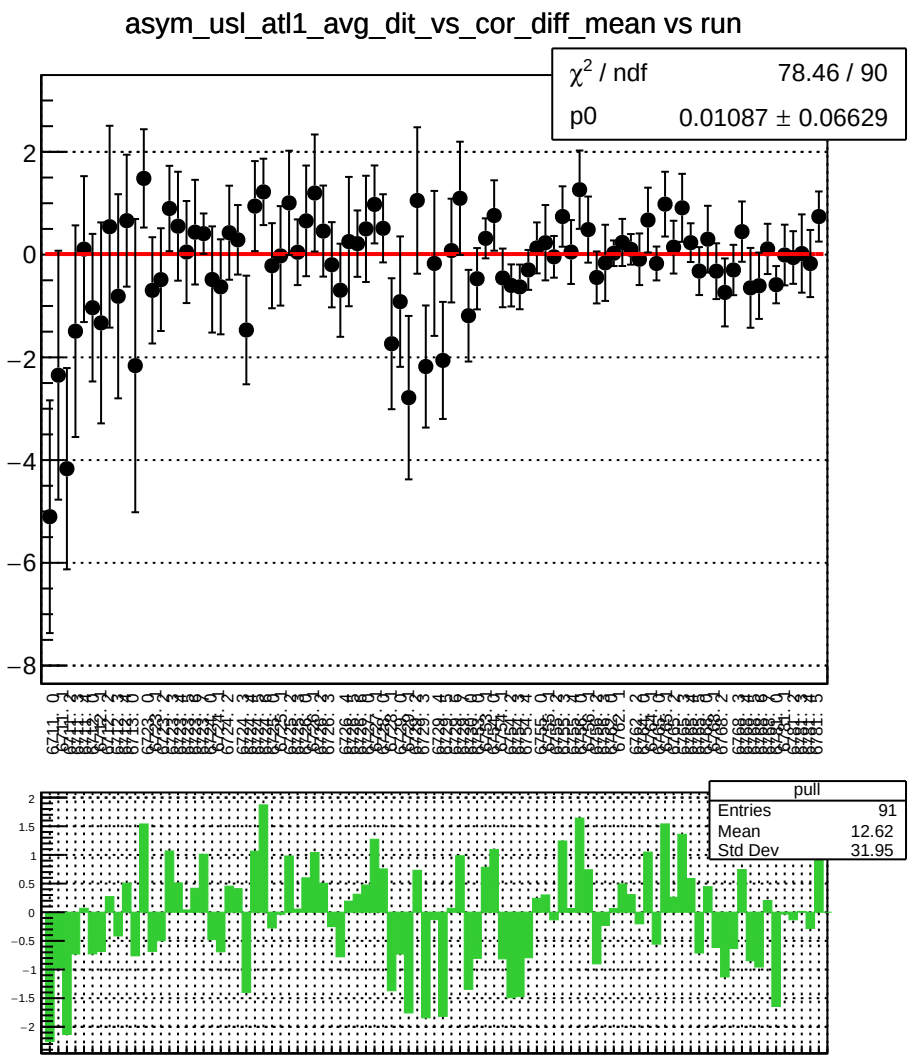

pull1D
Entries 91
Mean 0.01845
Std Dev 1.137
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

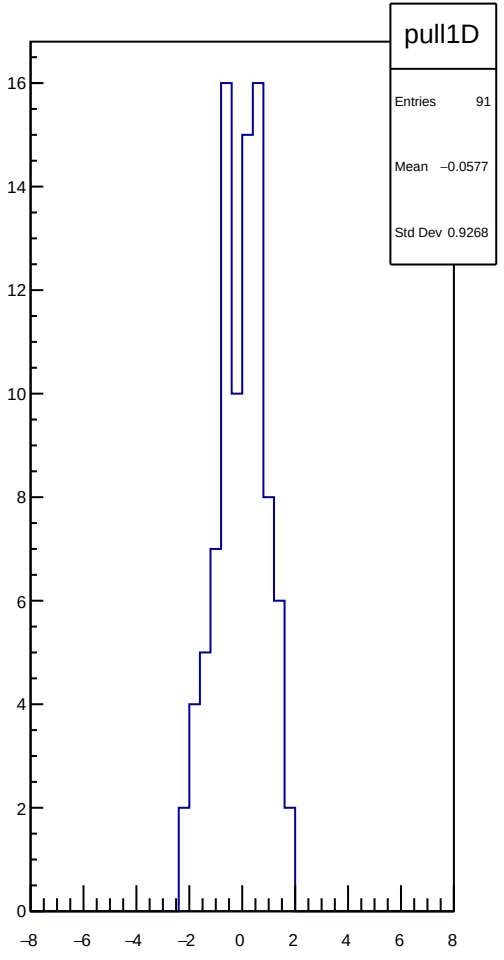

asym_usl_atl1_avg_rms vs run
χ² / ndf 2668 / 90
p0 1715 ± 1.277
1900
1850
1800
1750
1700
1650
1600
1550

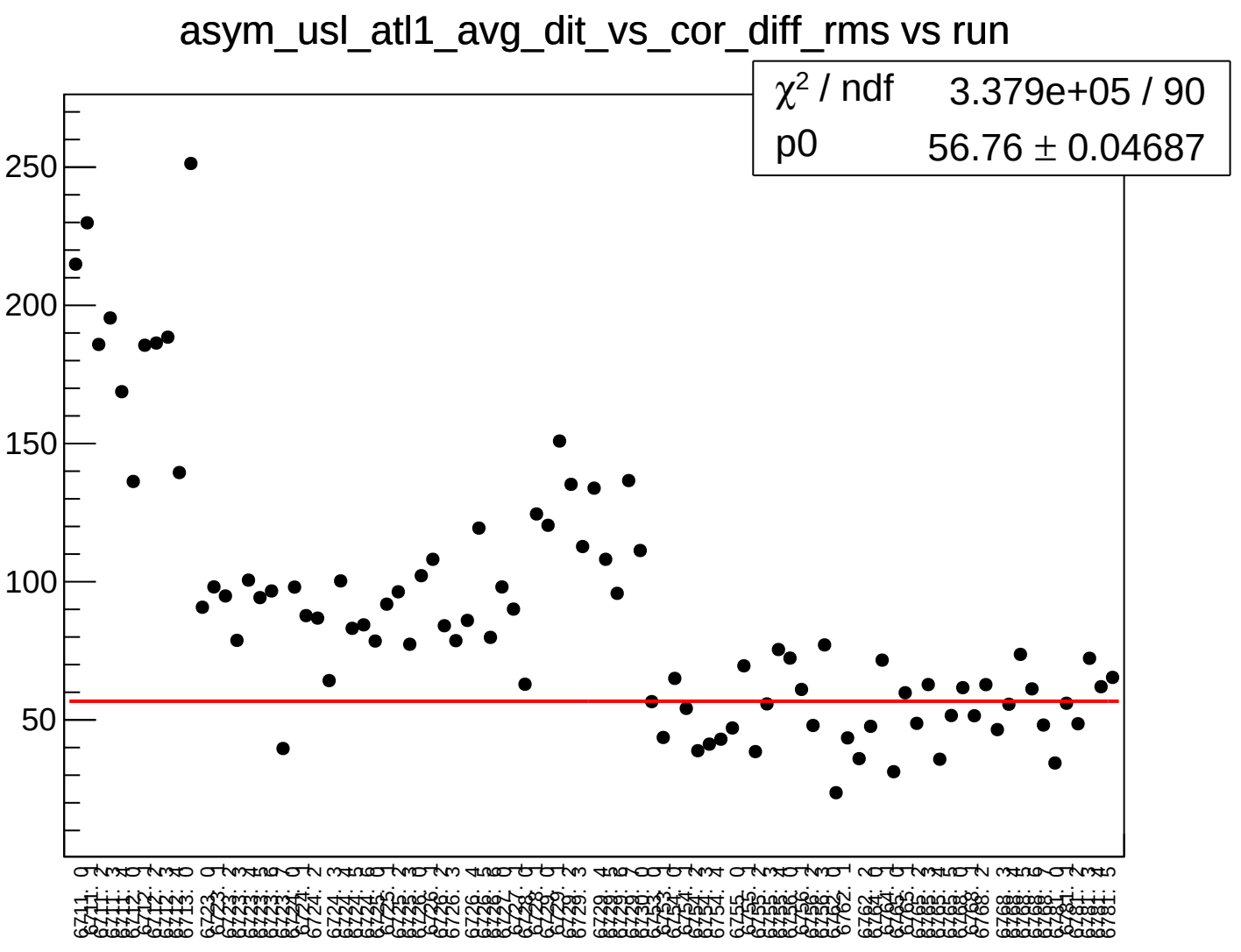

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.32 / 90
p0 −3.367e−15 ± 3.162e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean −56.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

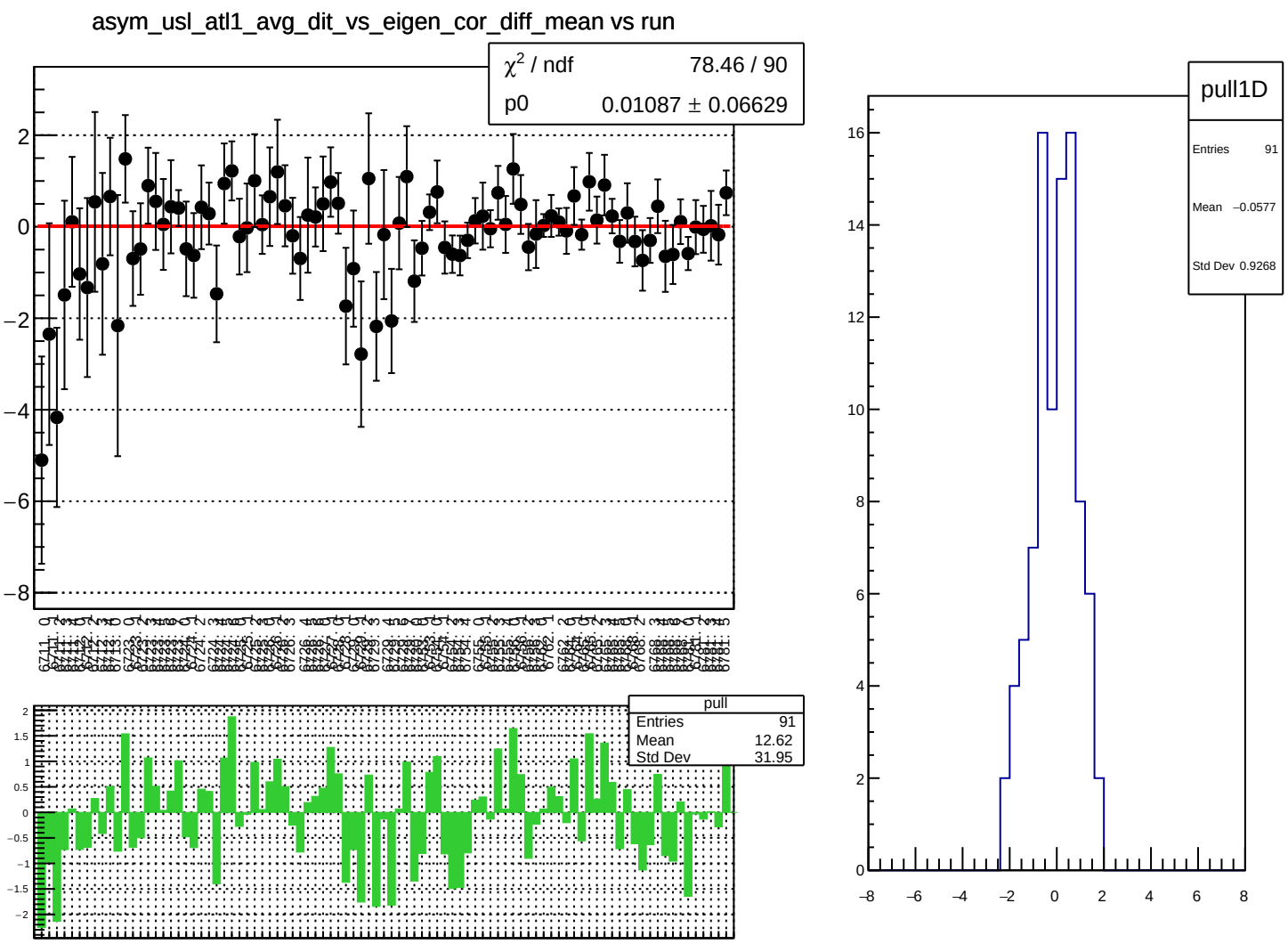

pull1D
Entries 91
Mean 0.02144
Std Dev 0.9334
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

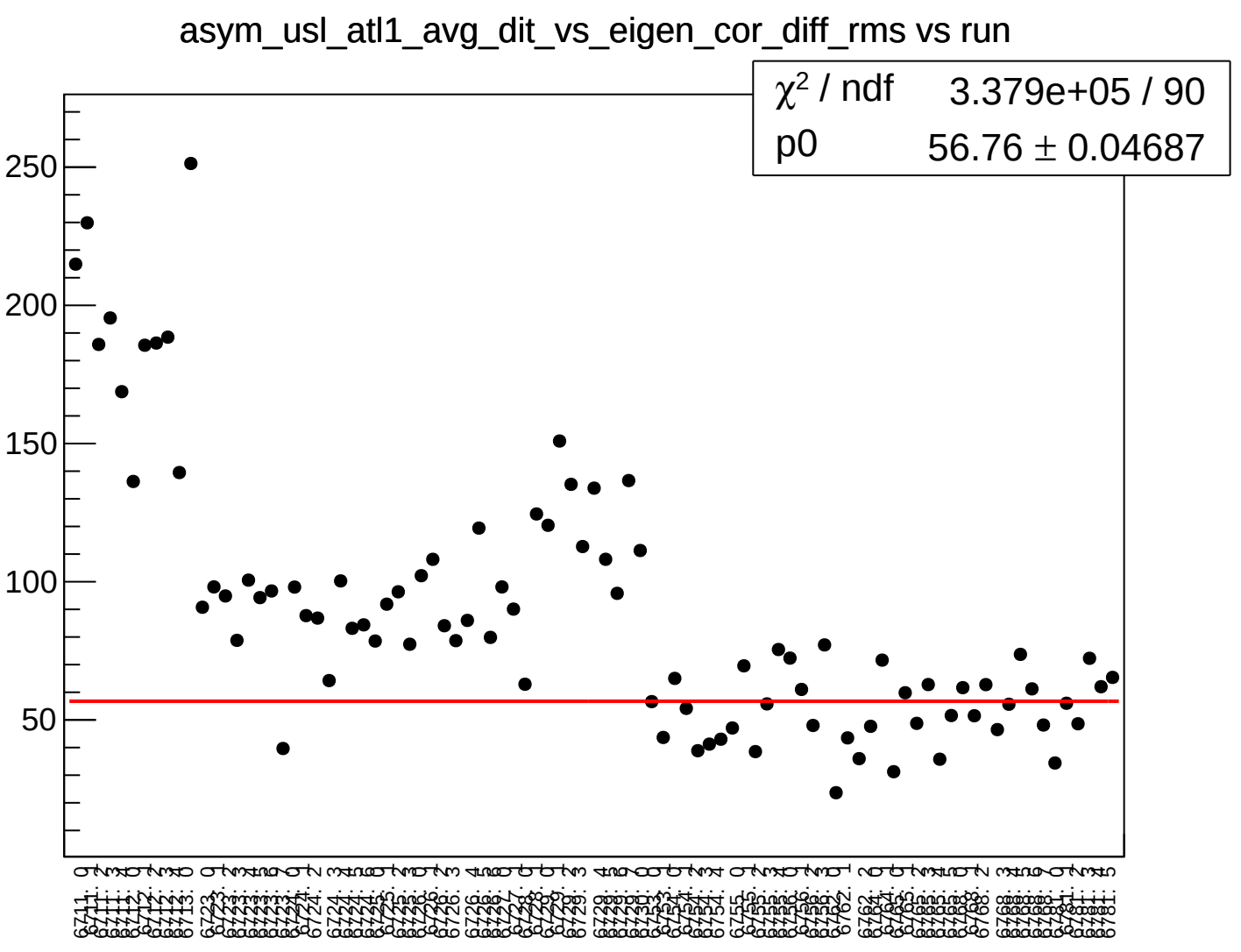

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.055e+06 / 90
p0 1.935e−11 ± 2.236e−14
1
0.8
0.6
0.4
0.2
0

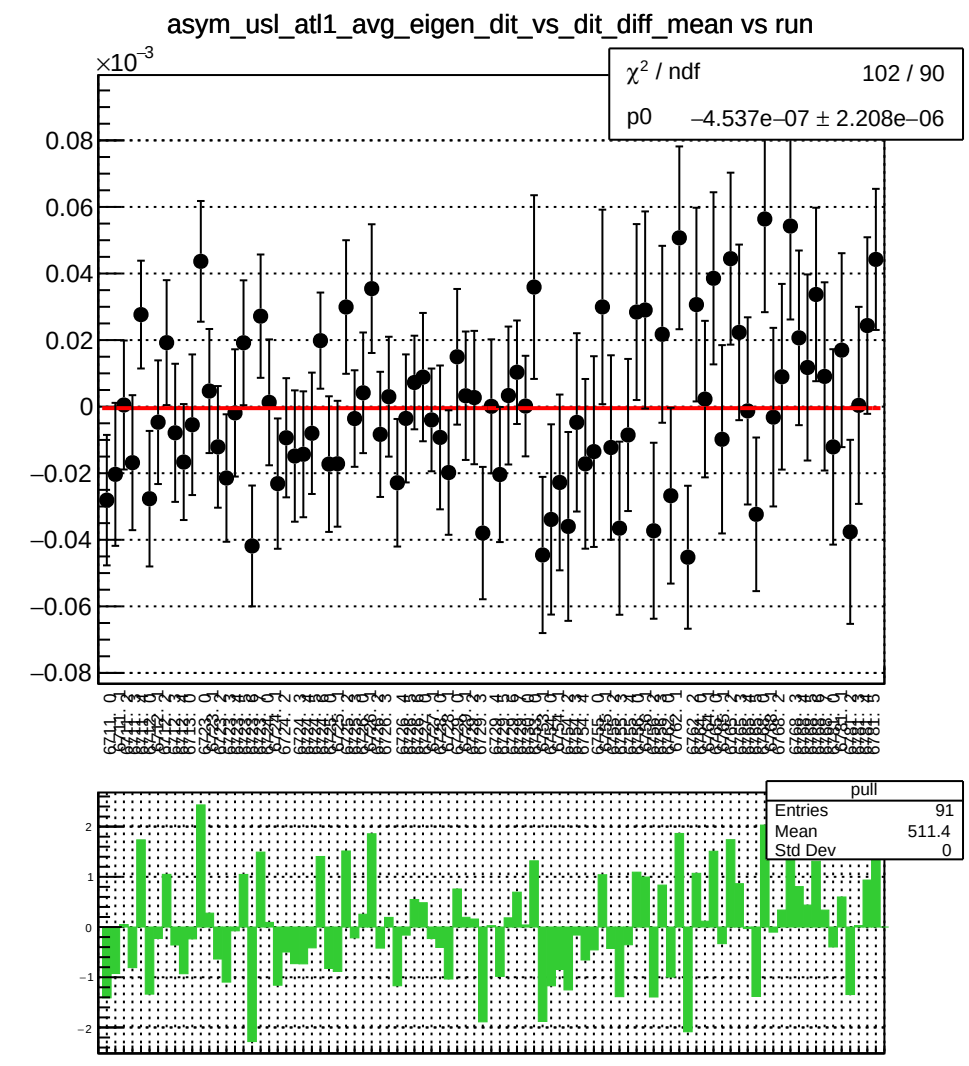

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.46 / 90
p0 0.01087 ± 0.06629
pull
Entries 91
Mean 12.62
Std Dev 31.95

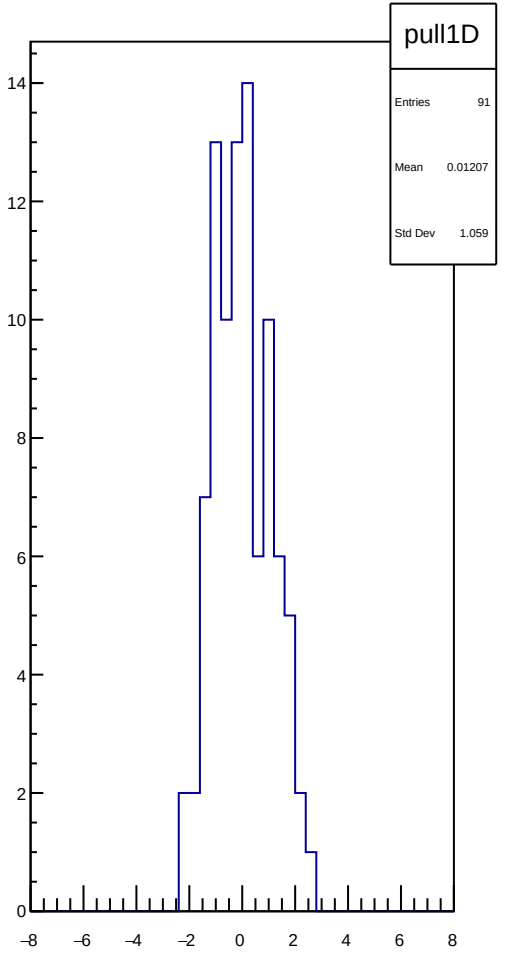

pull1D
Entries 91
Mean −0.0577
Std Dev 0.9268

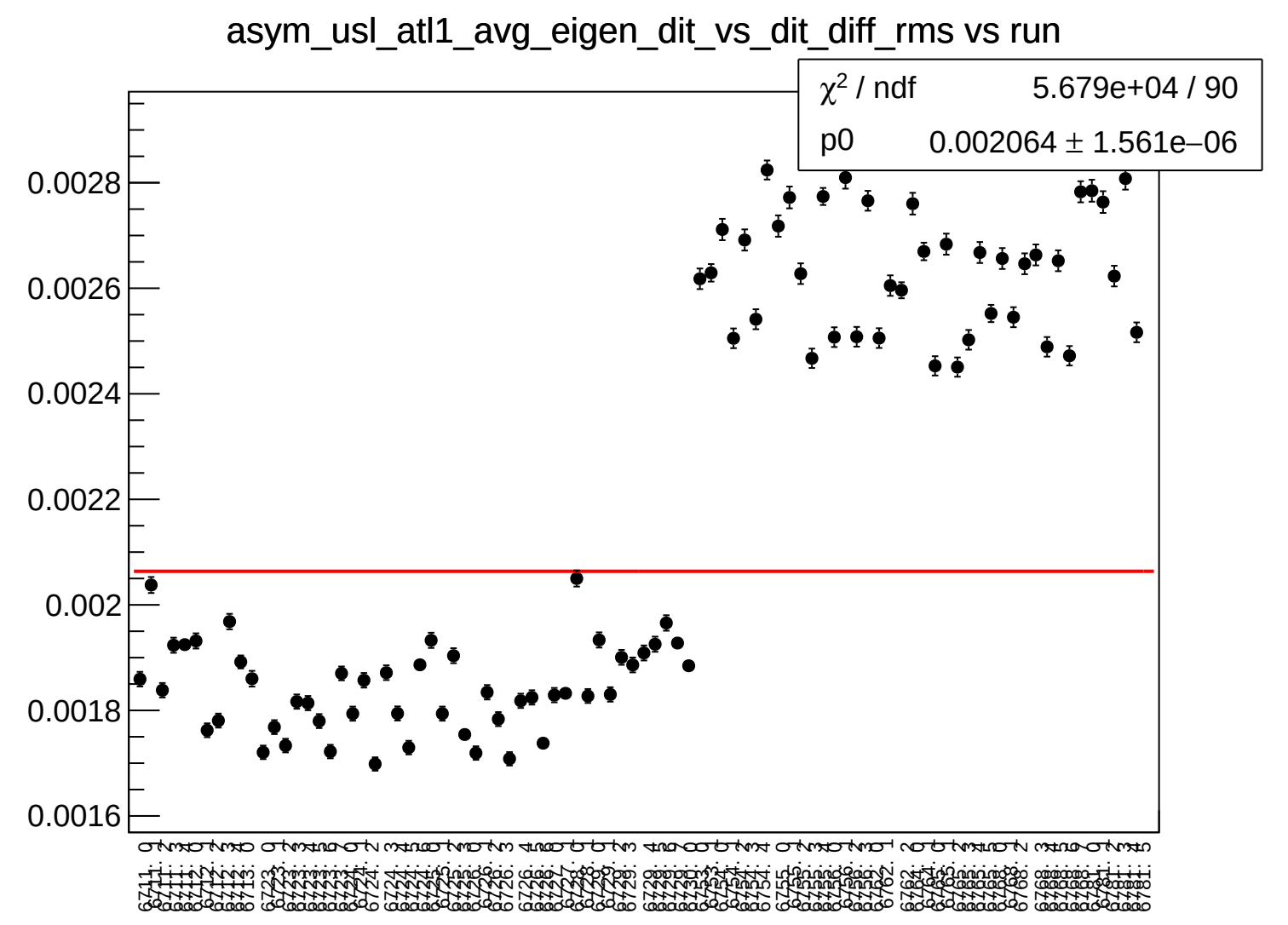

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.379e+05 / 90
p0 56.76 ± 0.04687
250
200
150
100
50

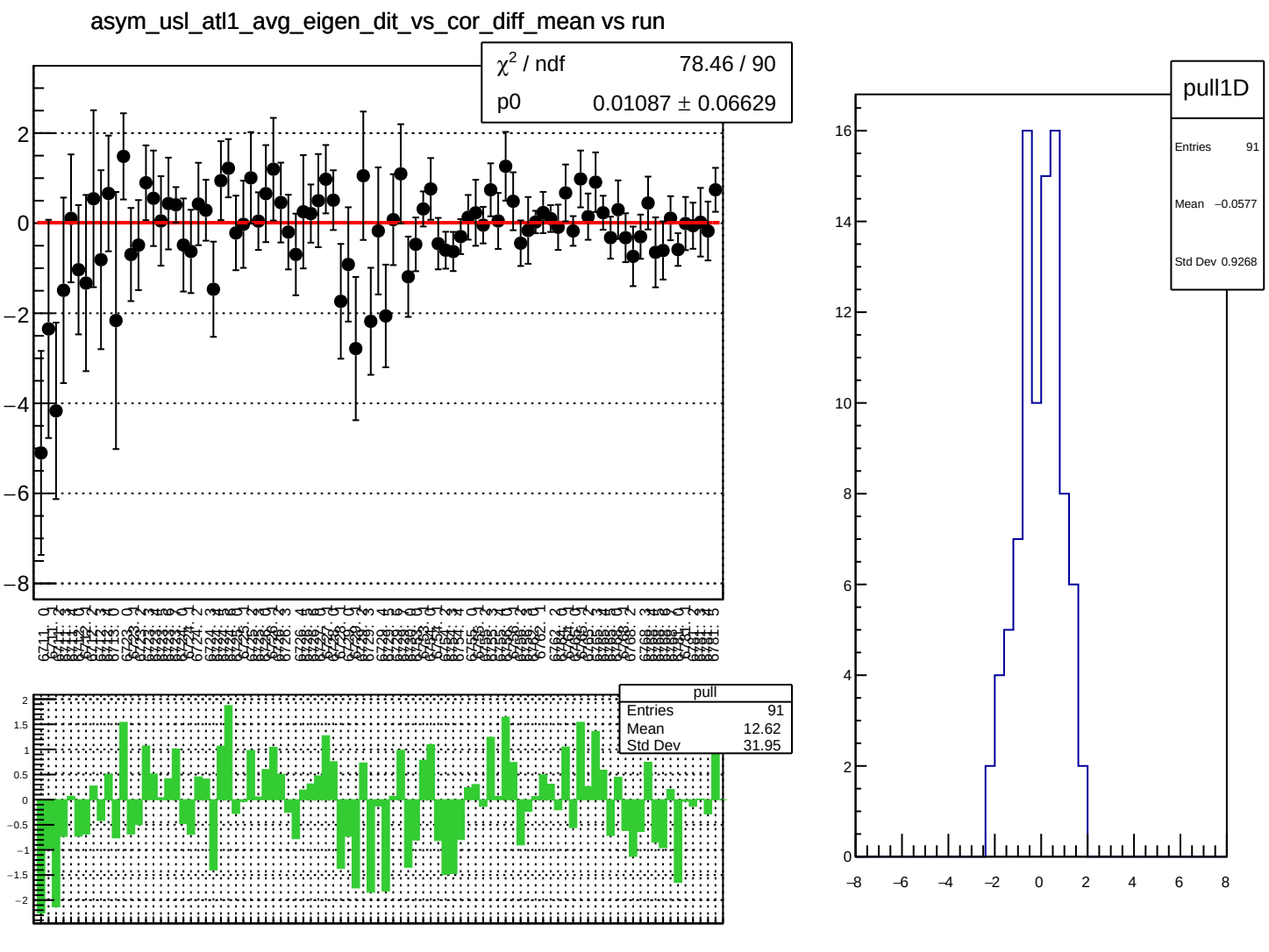

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.46 / 90
p0 0.01087 ± 0.06629
pull
Entries 91
Mean 12.62
Std Dev 31.95
pull1D
Entries 91
Mean −0.0577
Std Dev 0.9268

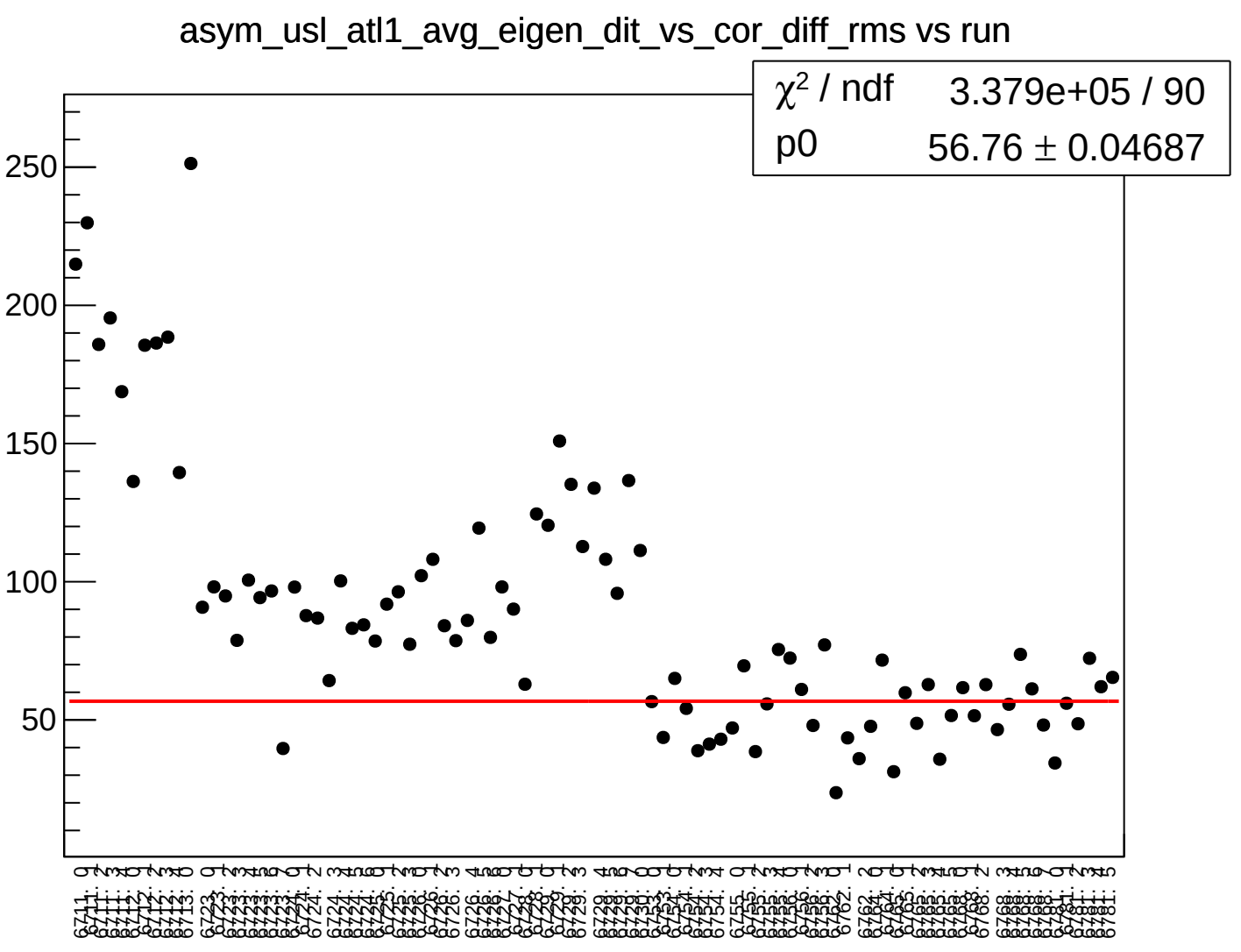

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.379e+05 / 90
p0 56.76 ± 0.04687
250
200
150
100
50

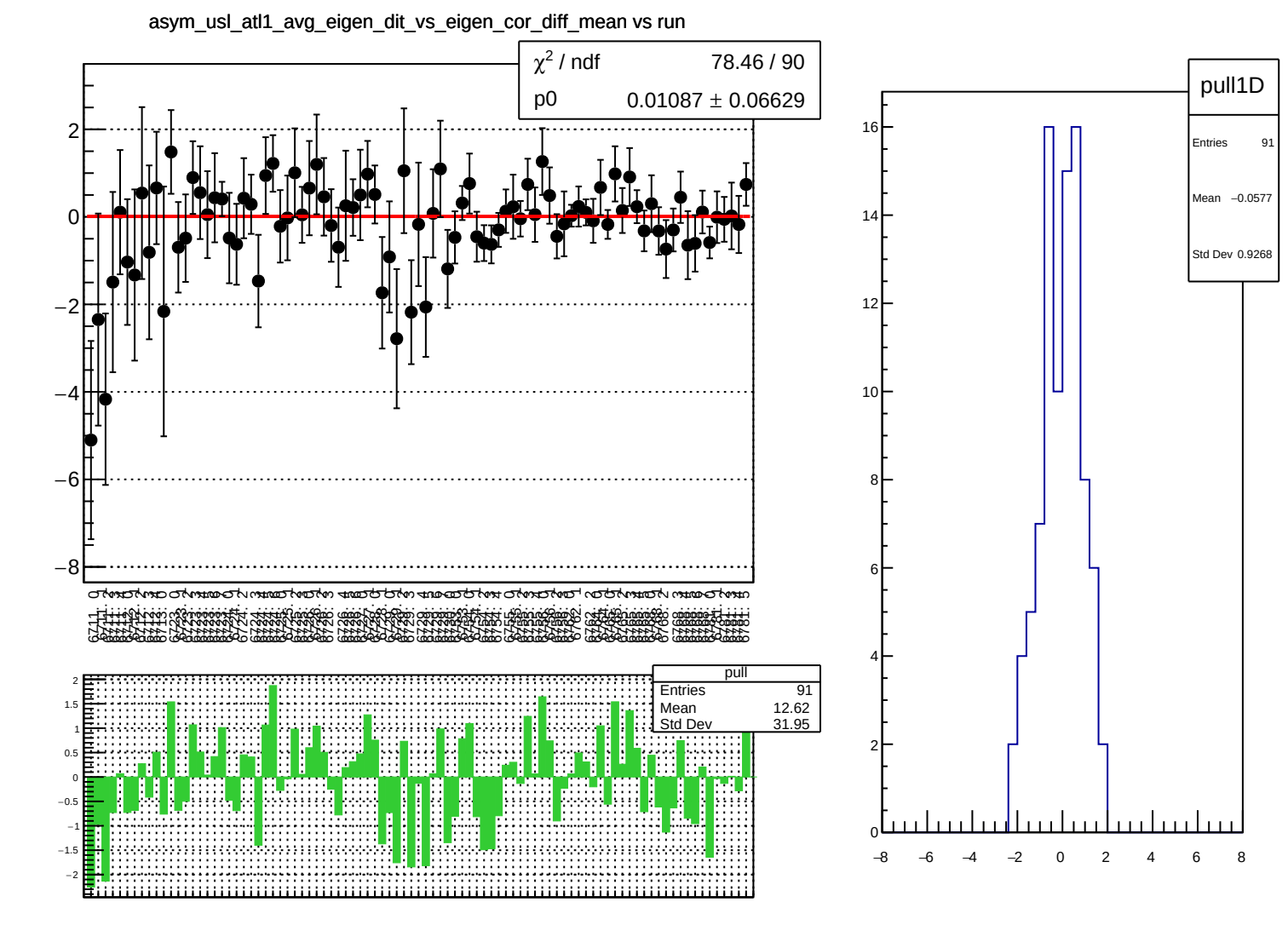

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102 / 90
p0 −4.537e−07 ± 2.208e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 91
Mean 511.4
Std Dev 0
2
1
0
−1
−2

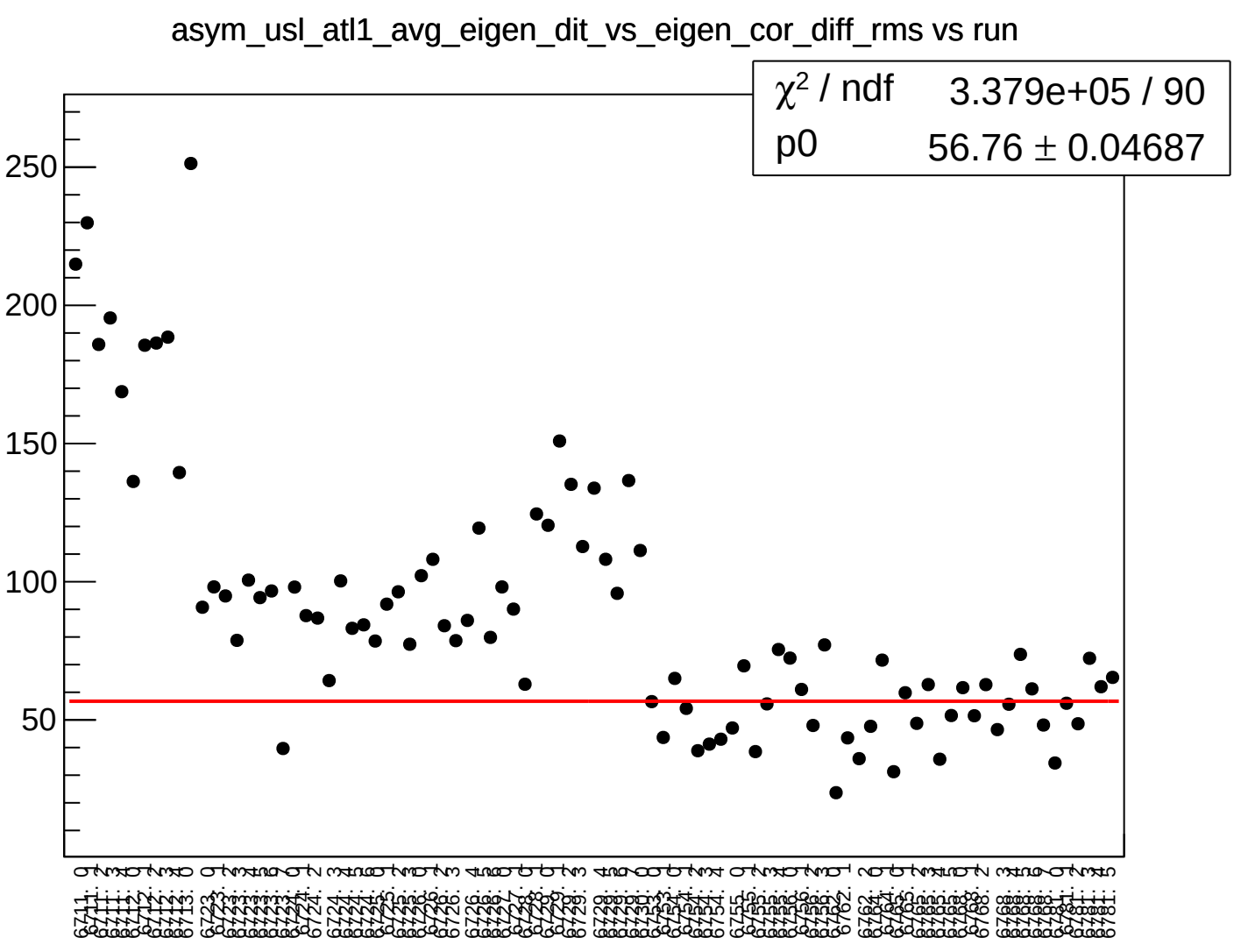

pull1D
Entries 91
Mean 0.01207
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

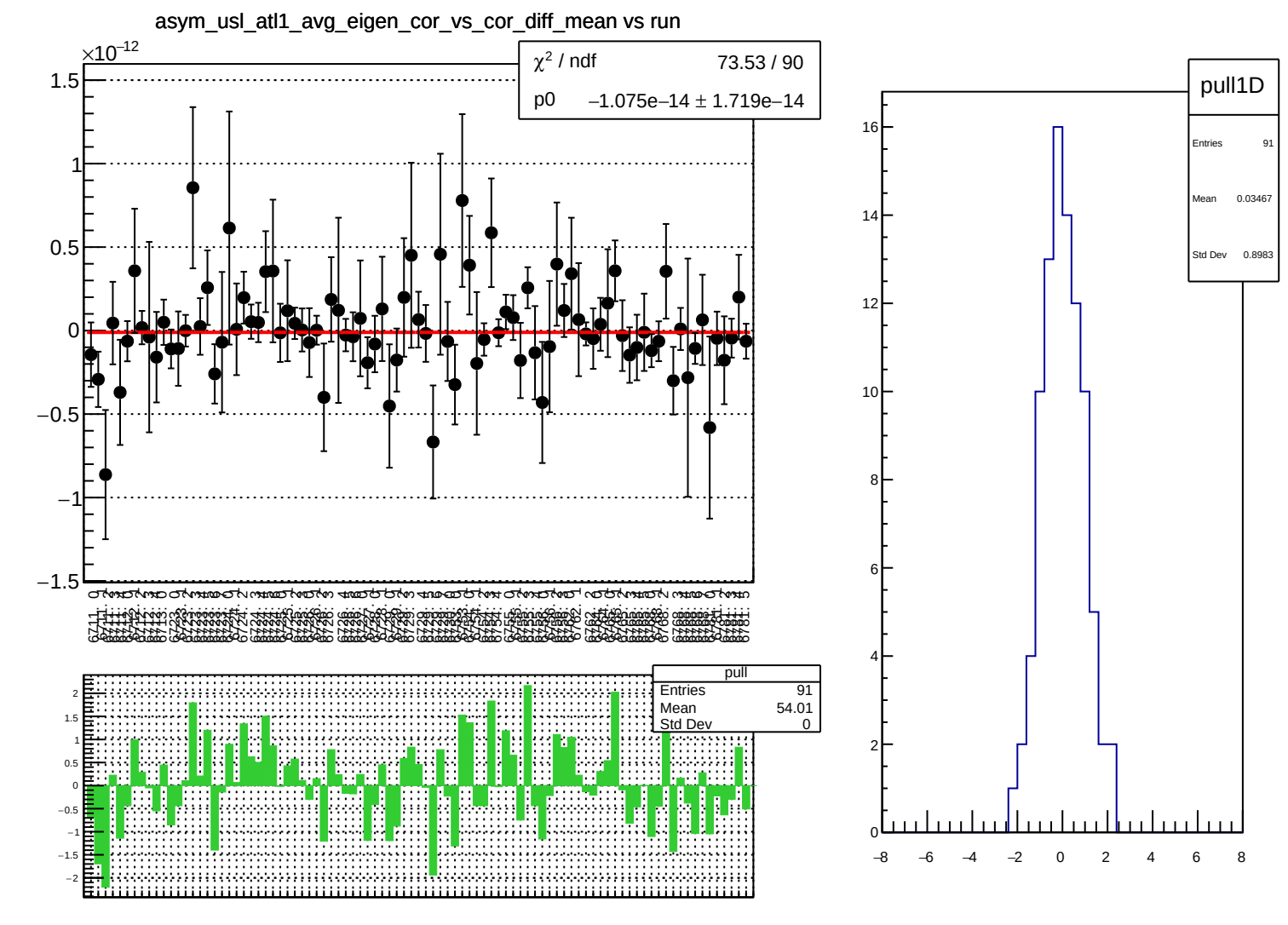

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.679e+04 / 90
p0 0.002064 ± 1.561e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

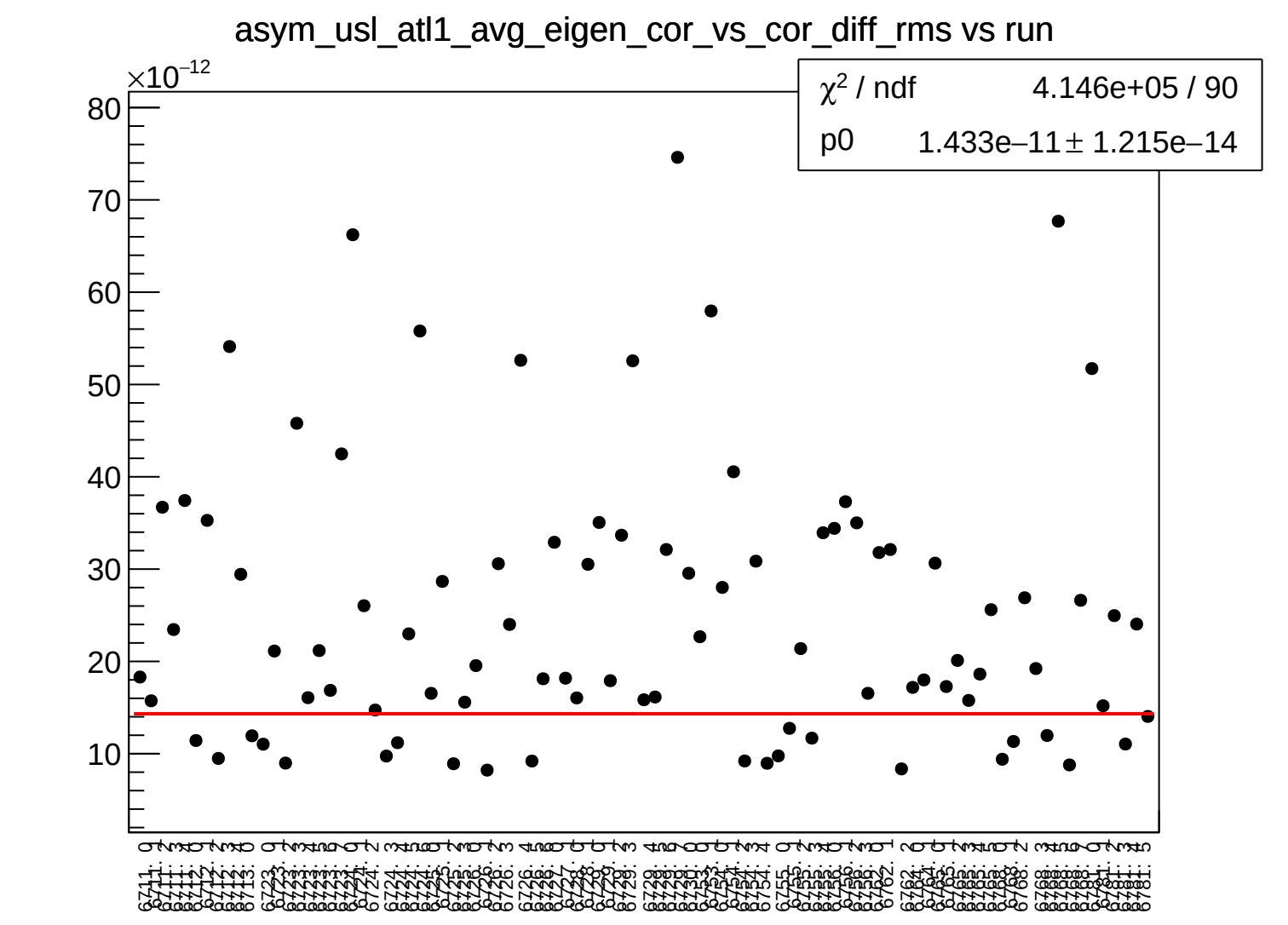

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.46 / 90
p0 0.01087 ± 0.06629
pull
Entries 91
Mean 12.62
Std Dev 31.95
pull1D
Entries 91
Mean −0.0577
Std Dev 0.9268

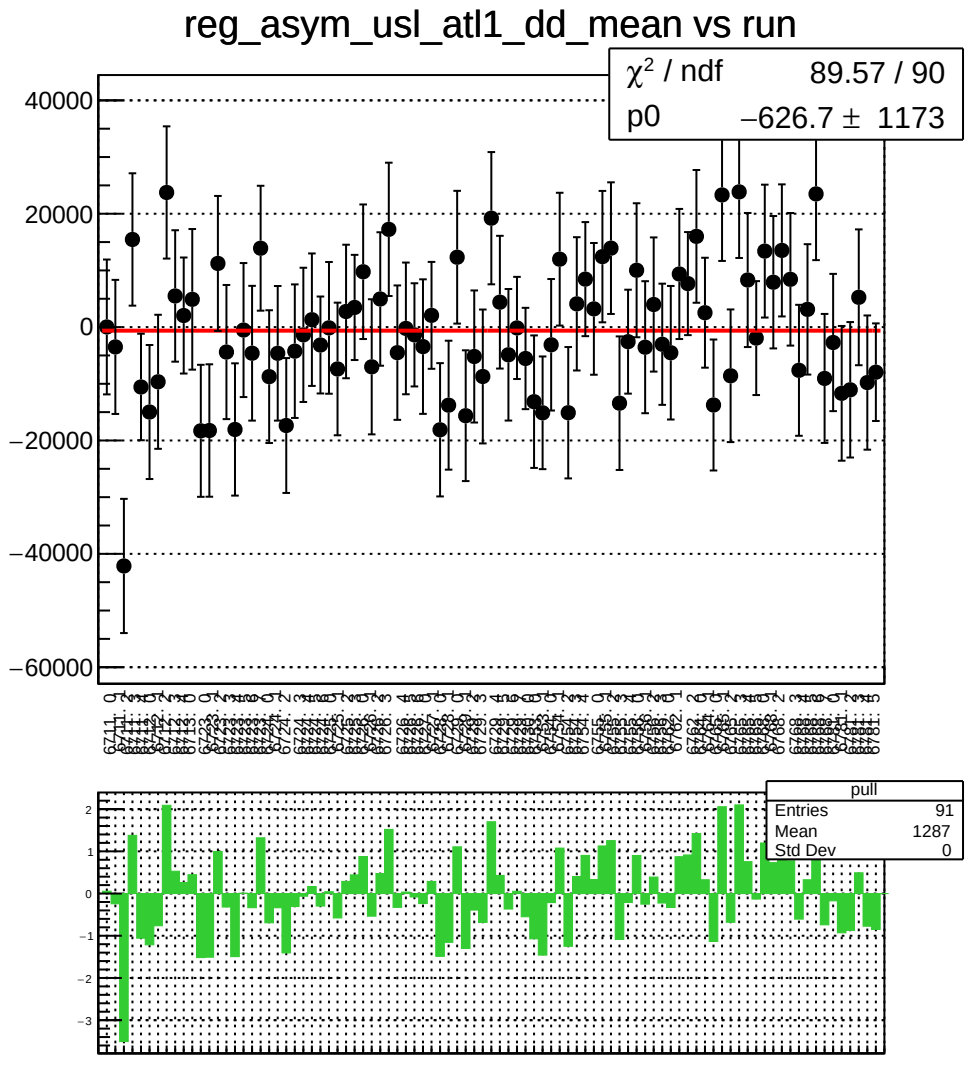

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.379e+05 / 90
p0 56.76 ± 0.04687
250
200
150
100
50

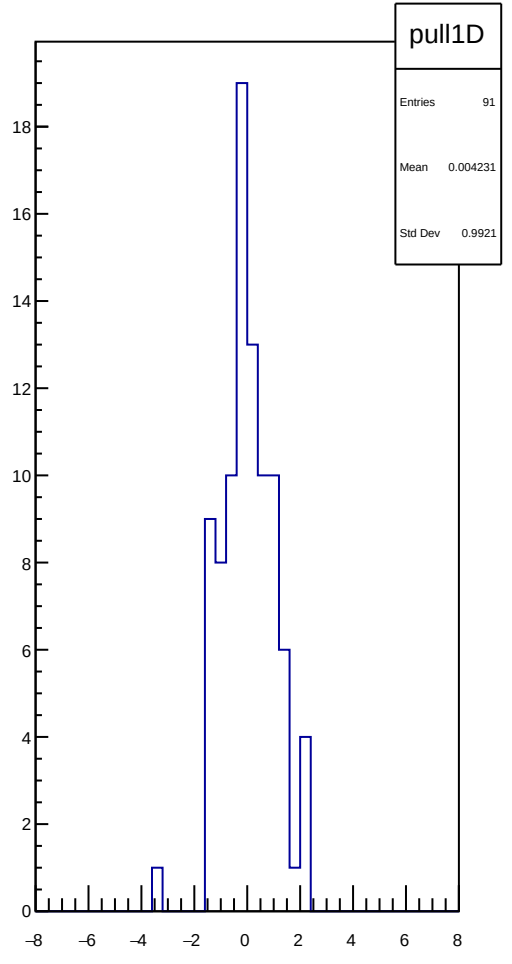

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.46 / 90
p0 0.01087 ± 0.06629
pull
Entries 91
Mean 12.62
Std Dev 31.95
pull1D
Entries 91
Mean −0.0577
Std Dev 0.9268

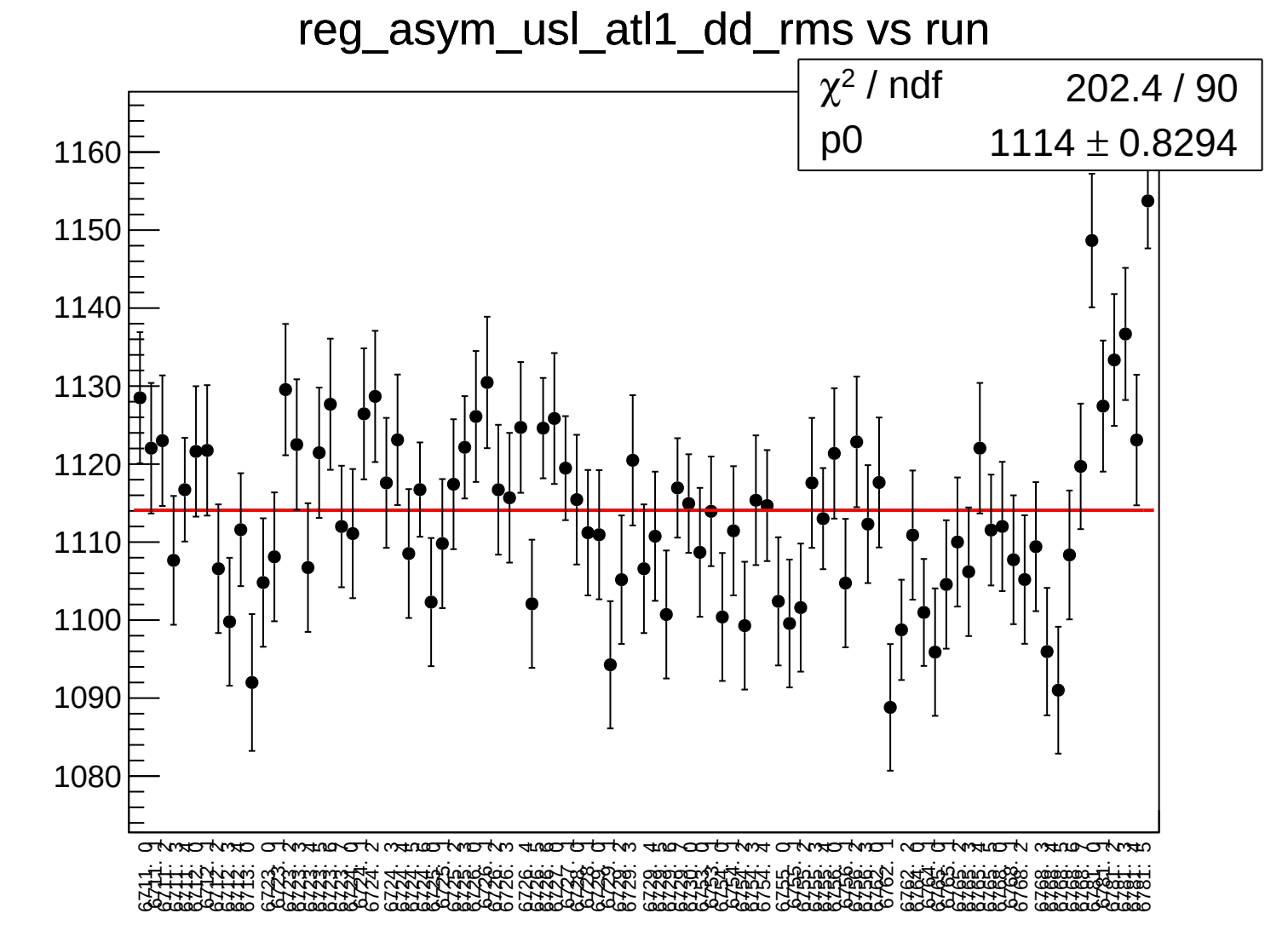

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.379e+05 / 90
p0 56.76 ± 0.04687
250
200
150
100
50

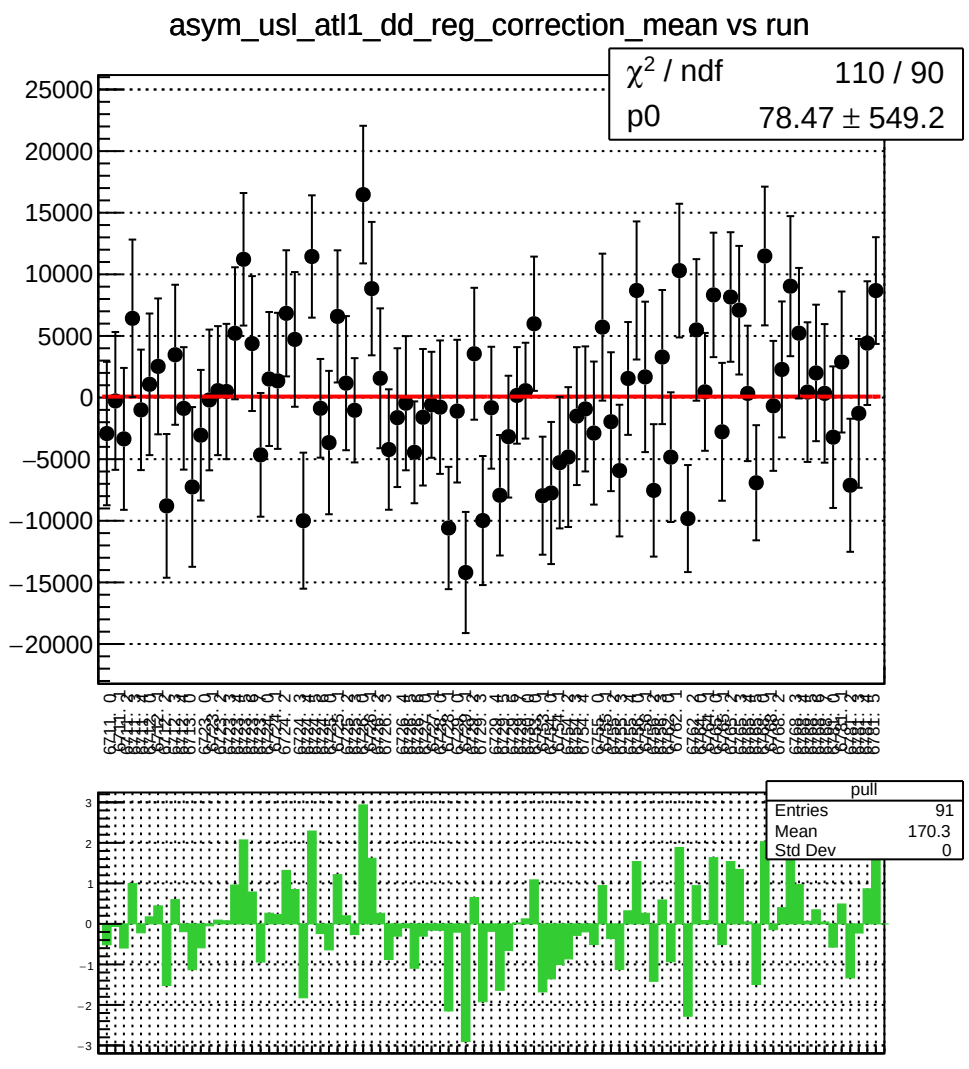

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.53 / 90
p0 −1.075e−14 ± 1.719e−14
pull
Entries 91
Mean 54.01
Std Dev 0
pull1D
Entries 91
Mean 0.03467
Std Dev 0.8983

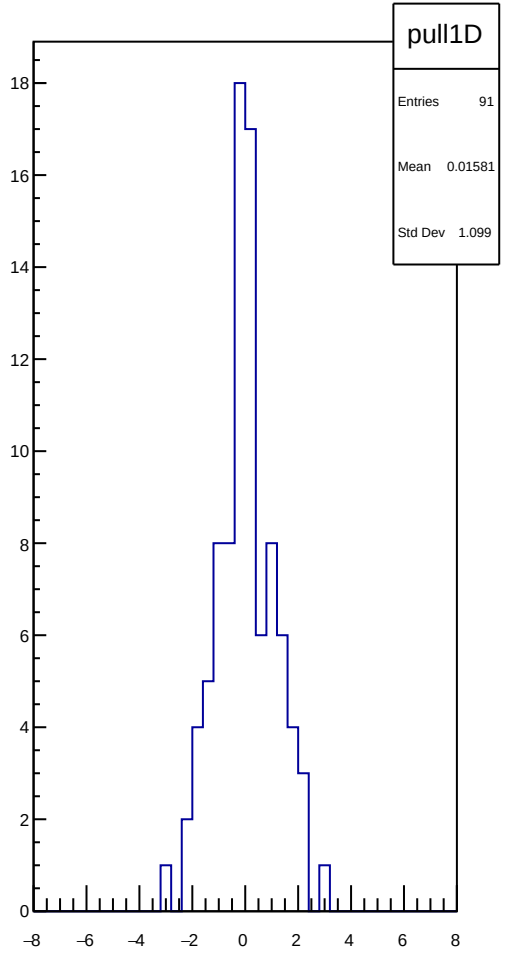

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.146e+05 / 90
p0 1.433e−11 ± 1.215e−14
80
70
60
50
40
30
20
10

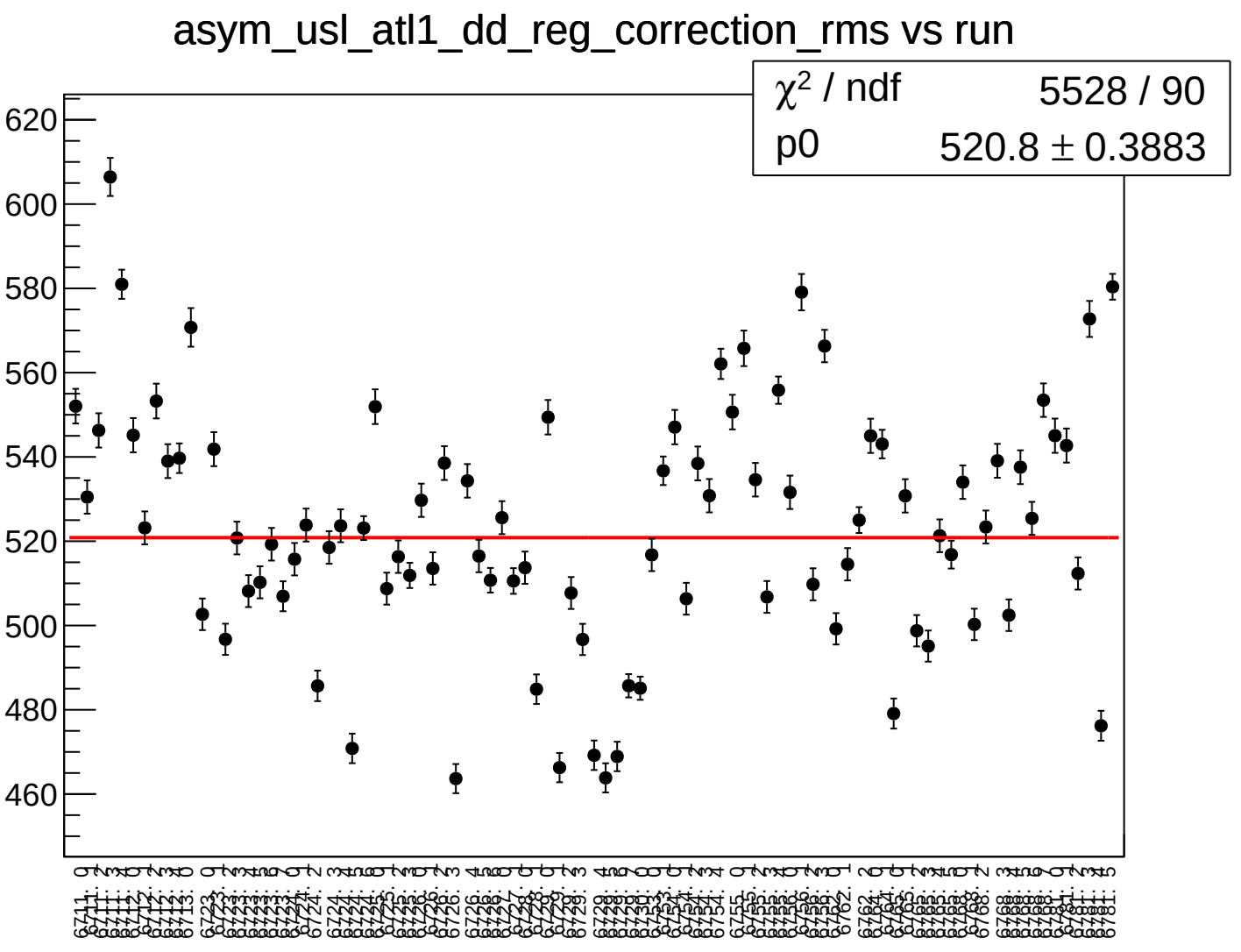

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 89.57 / 90
p0 −626.7 ± 1173
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 1287
Std Dev 0
2
1
0
−1
−2
−3

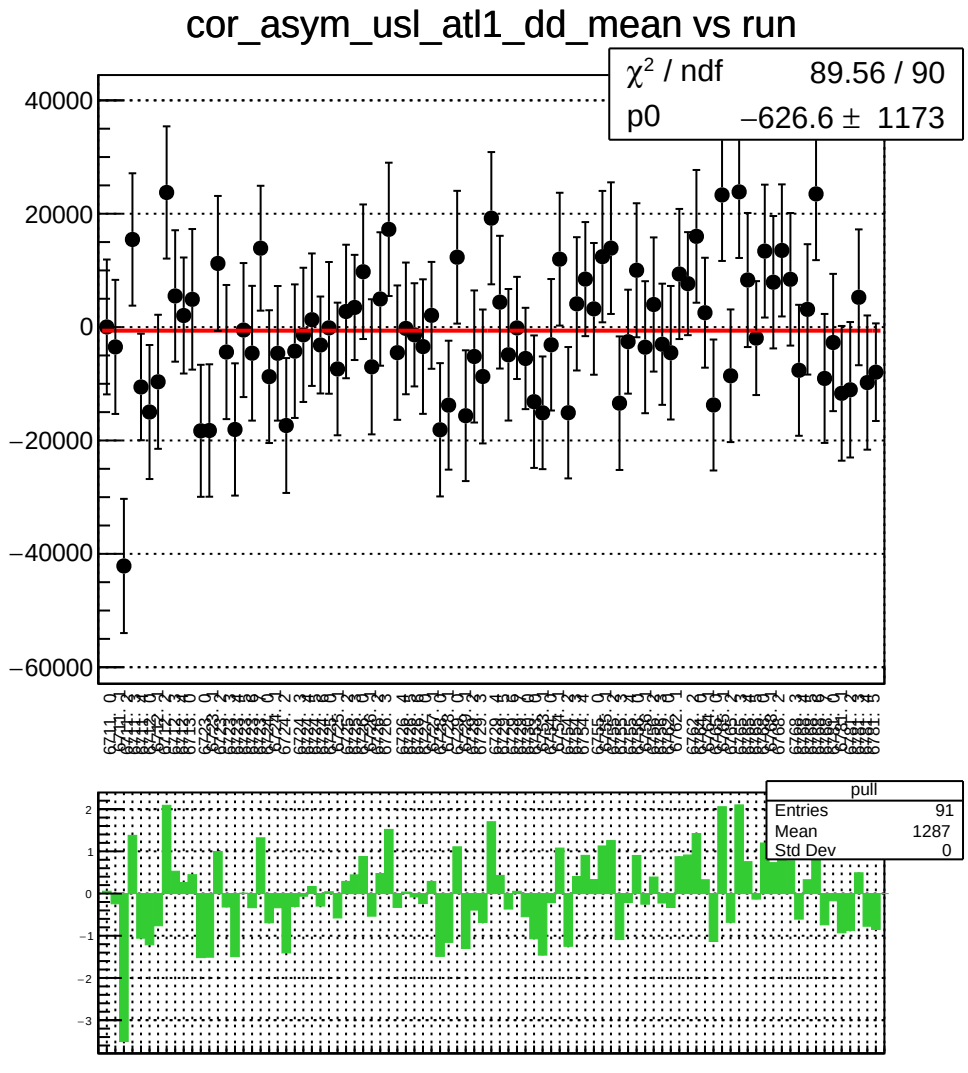

pull1D
Entries 91
Mean 0.004231
Std Dev 0.9921
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

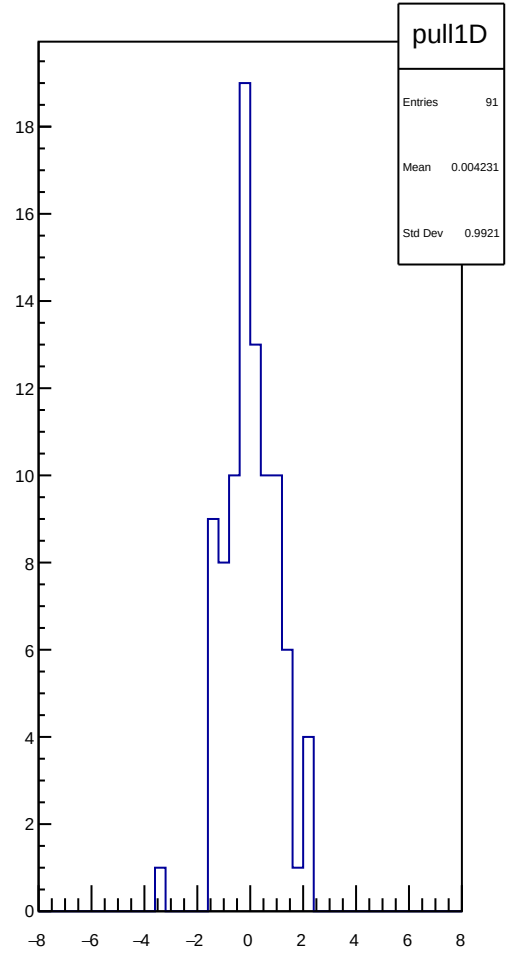

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 202.4 / 90
p0 1114 ± 0.8294
1160
1150
1140
1130
1120
1110
1100
1090
1080

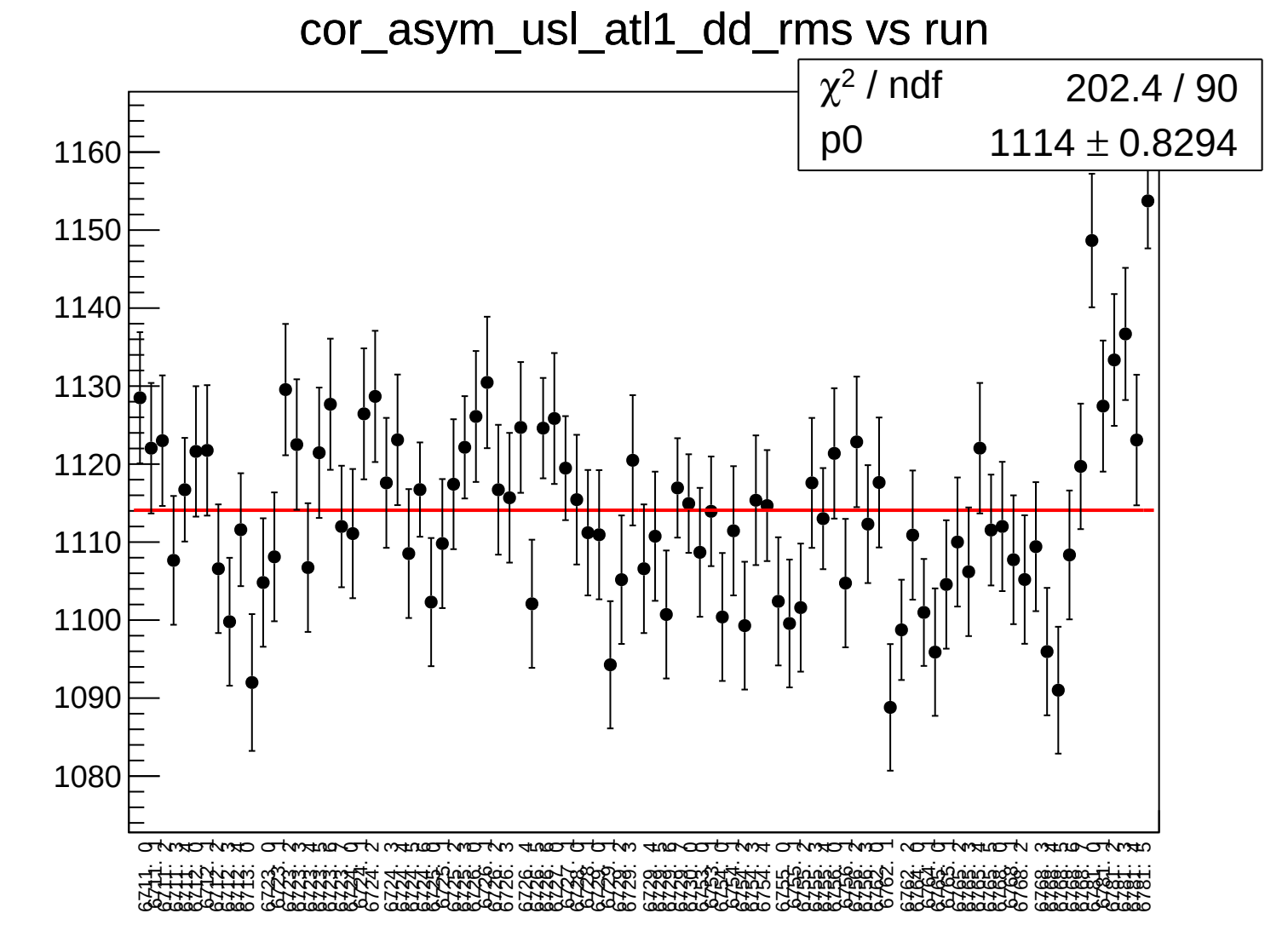

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 110 / 90
p0 78.47 ± 549.2
pull
Entries 91
Mean 170.3
Std Dev 0

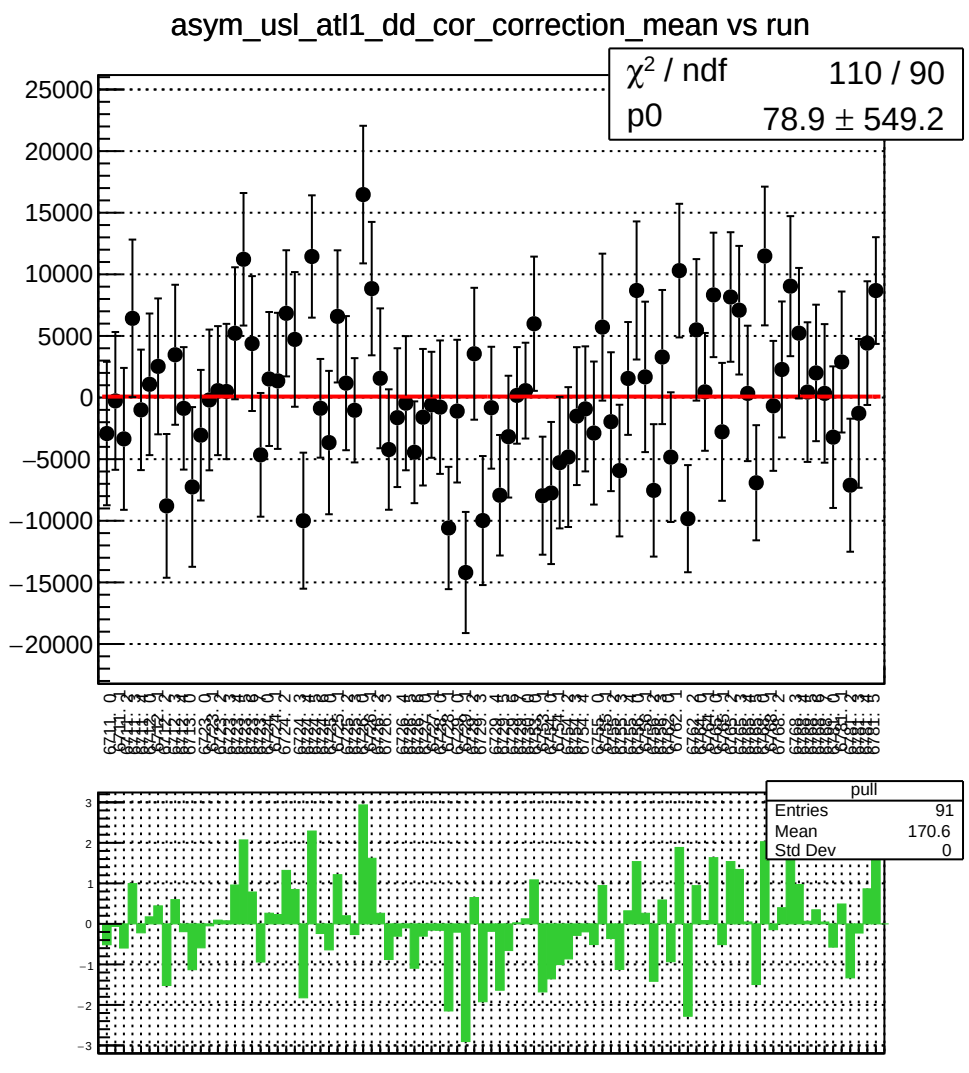

pull1D
Entries 91
Mean 0.01581
Std Dev 1.099

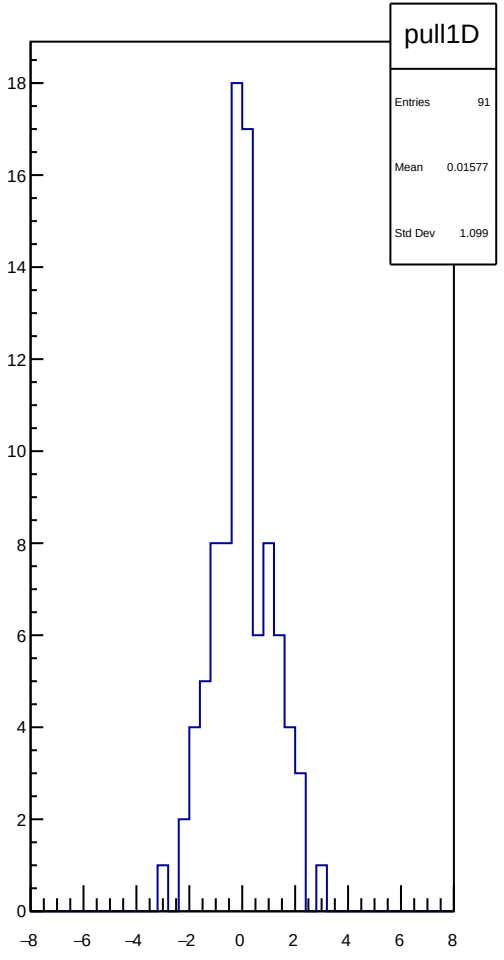

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 5528 / 90
p0 520.8 ± 0.3883
620
600
580
560
540
520
500
480
460

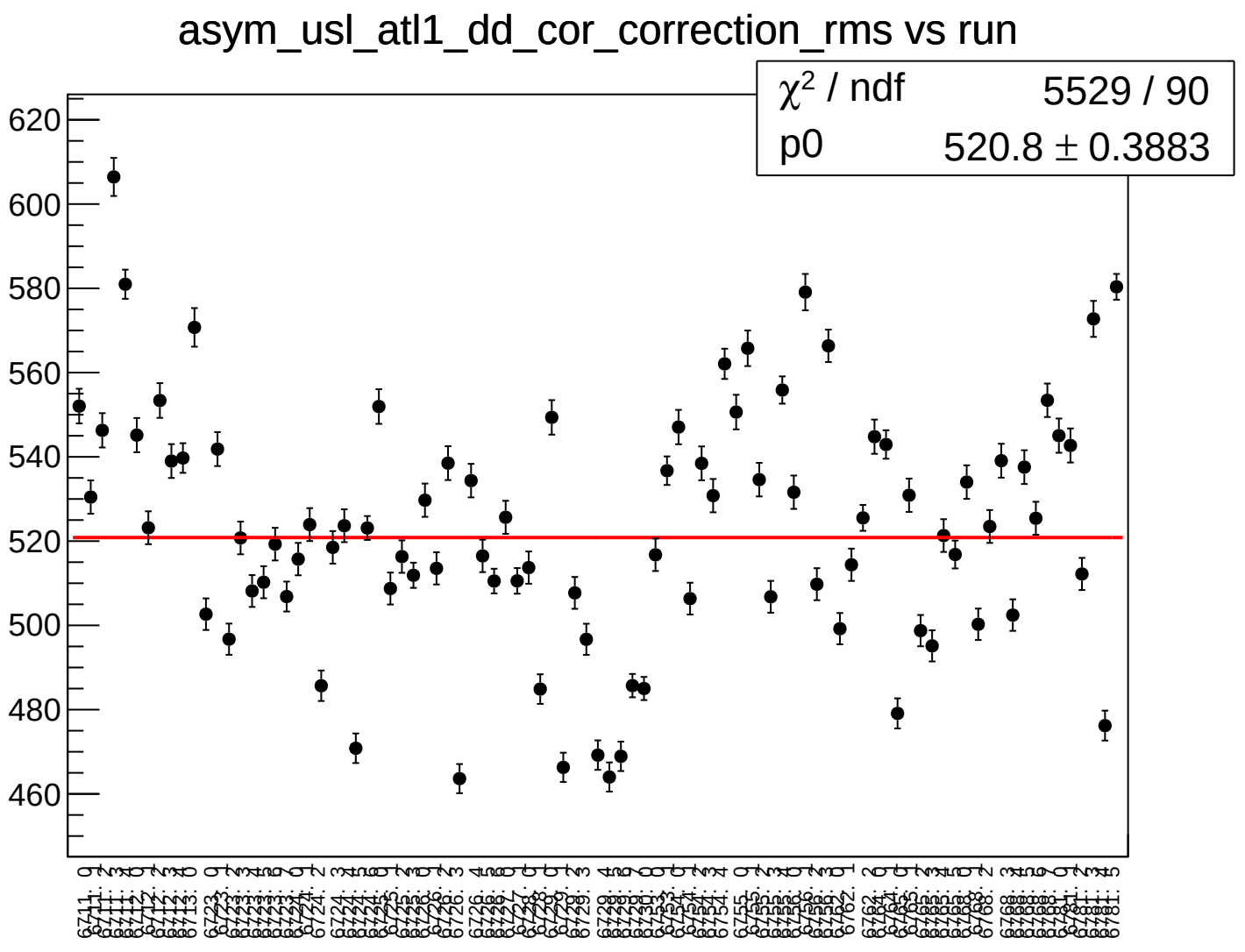

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 89.56 / 90
p0 −626.6 ± 1173
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 1287
Std Dev 0
2
1
0
−1
−2
−3

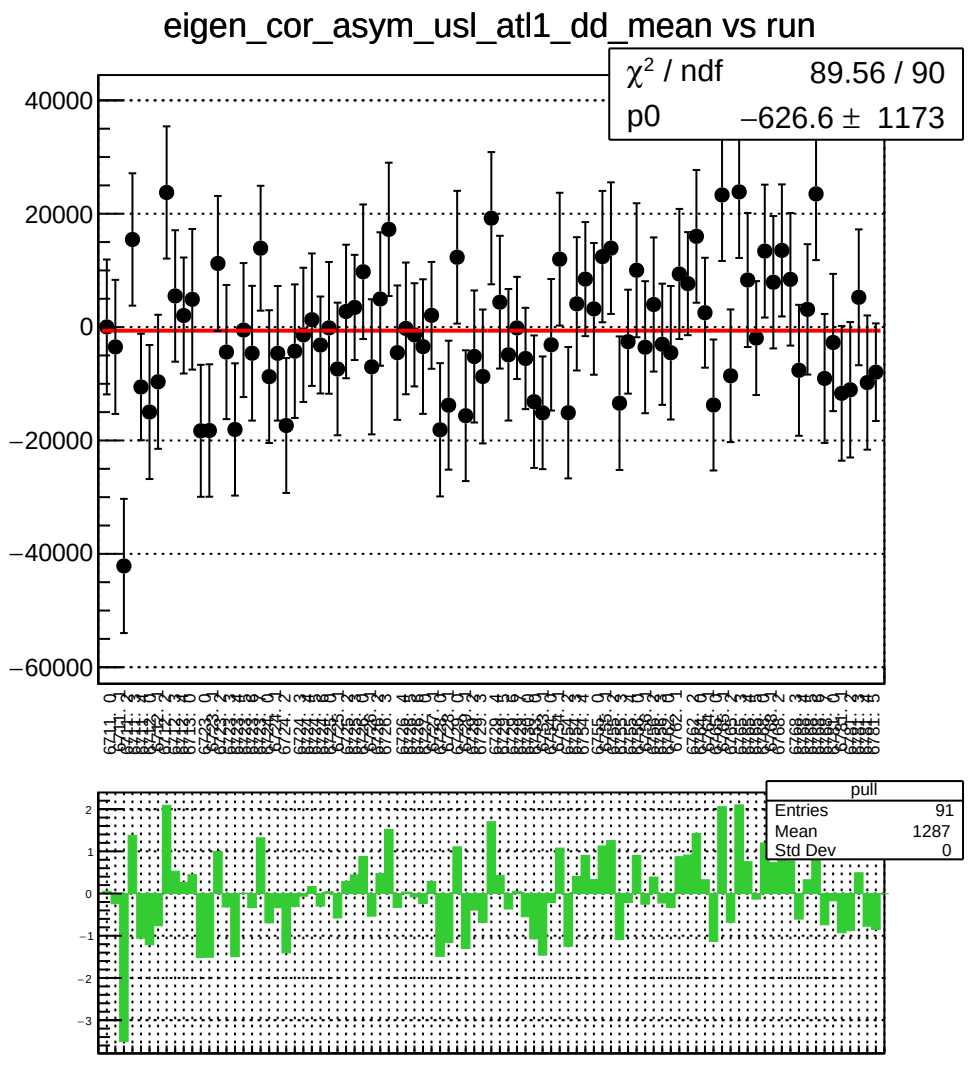

pull1D
Entries 91
Mean 0.004231
Std Dev 0.9921
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

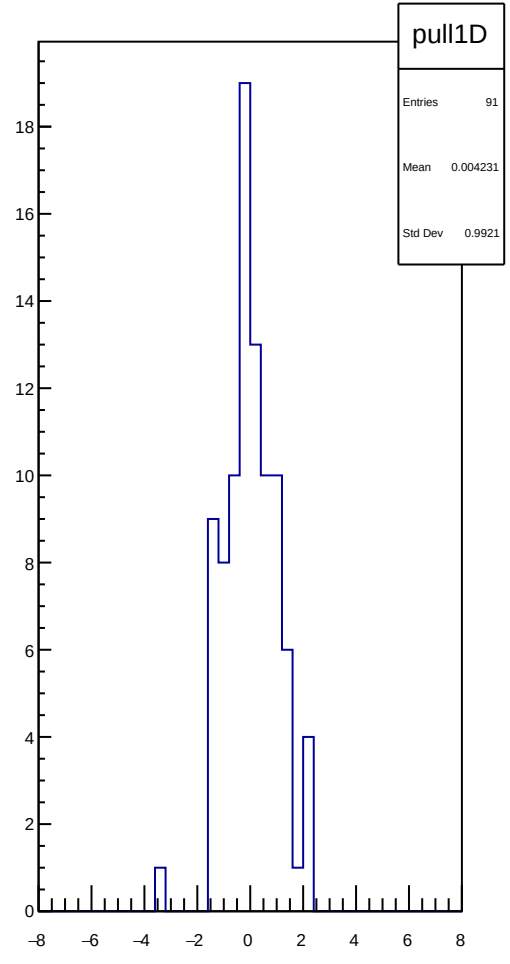

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 202.4 / 90
p0 1114 ± 0.8294
1160
1150
1140
1130
1120
1110
1100
1090
1080

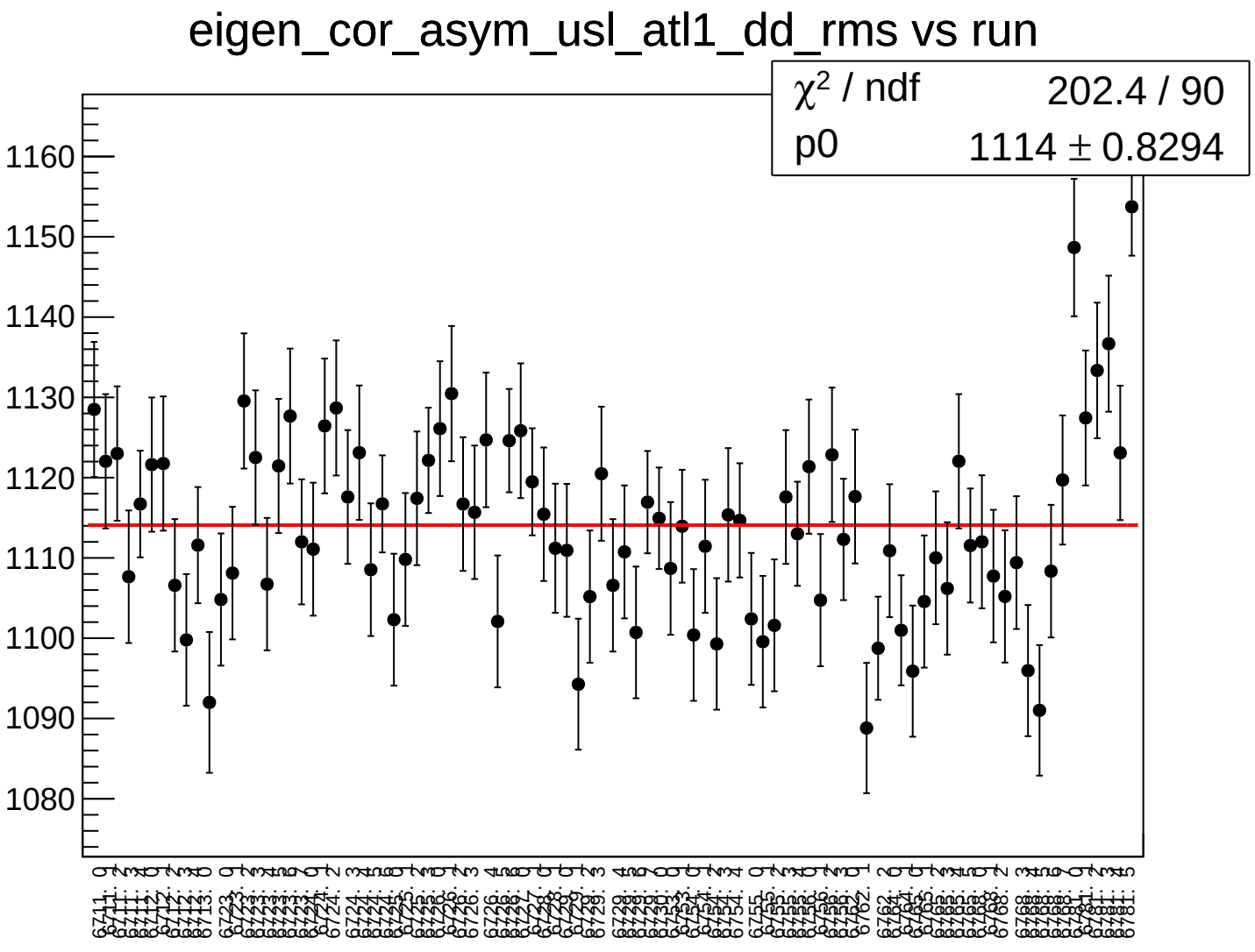

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 110 / 90
p0 78.9 ± 549.2
pull
Entries 91
Mean 170.6
Std Dev 0

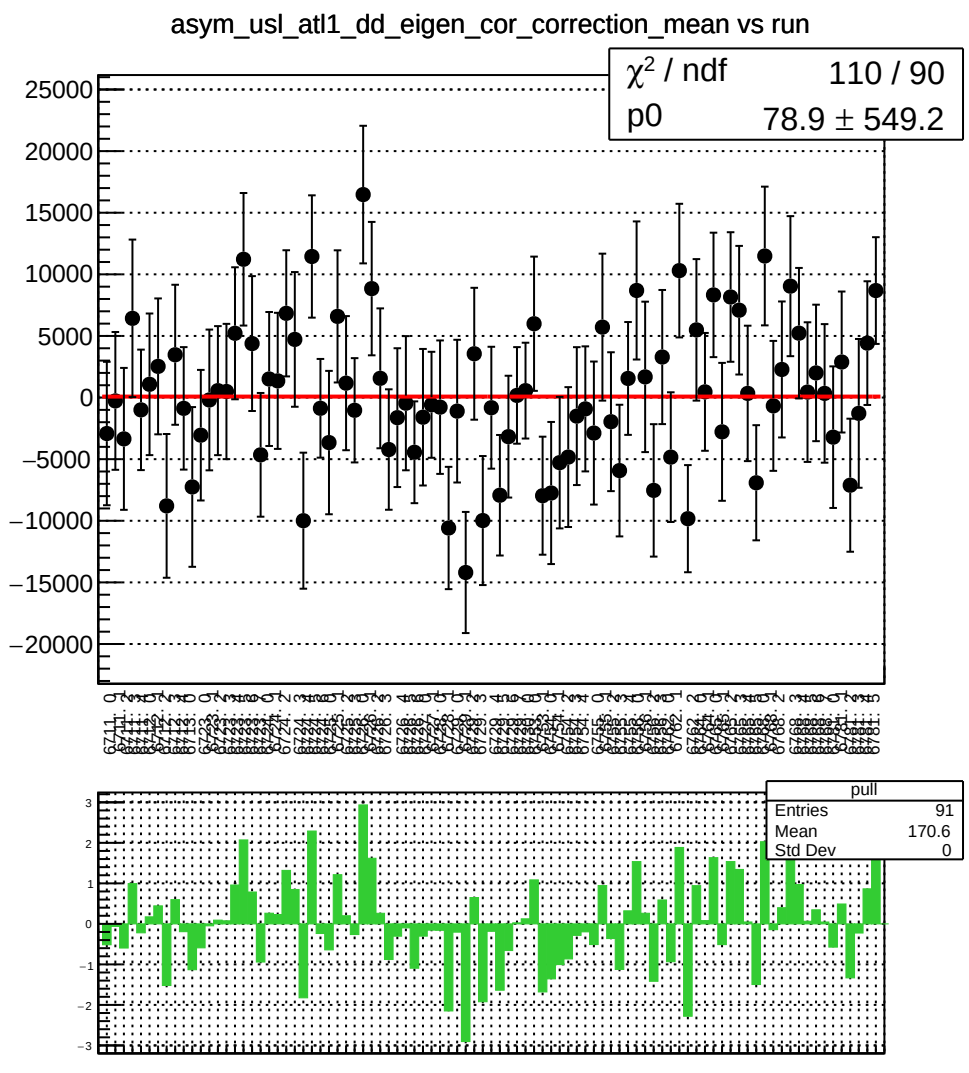

pull1D
Entries 91
Mean 0.01577
Std Dev 1.099

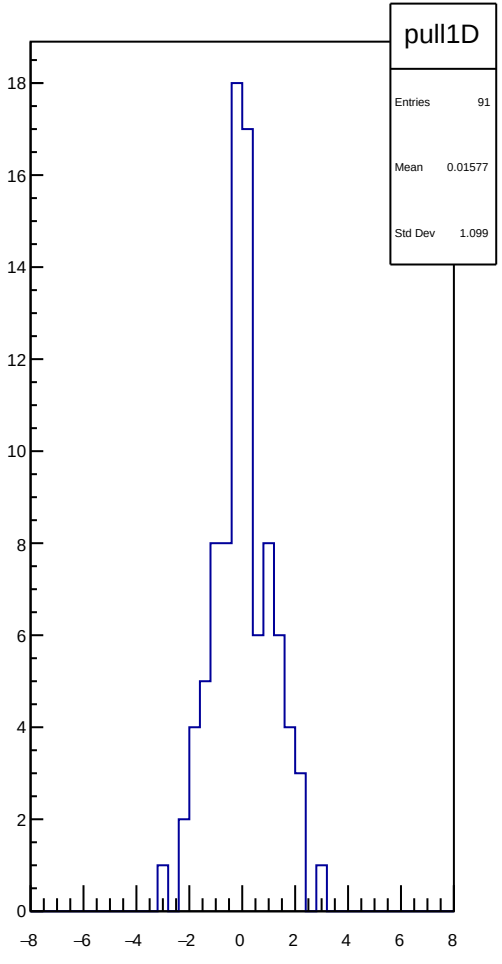

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 5529 / 90
p0 520.8 ± 0.3883
620
600
580
560
540
520
500
480
460

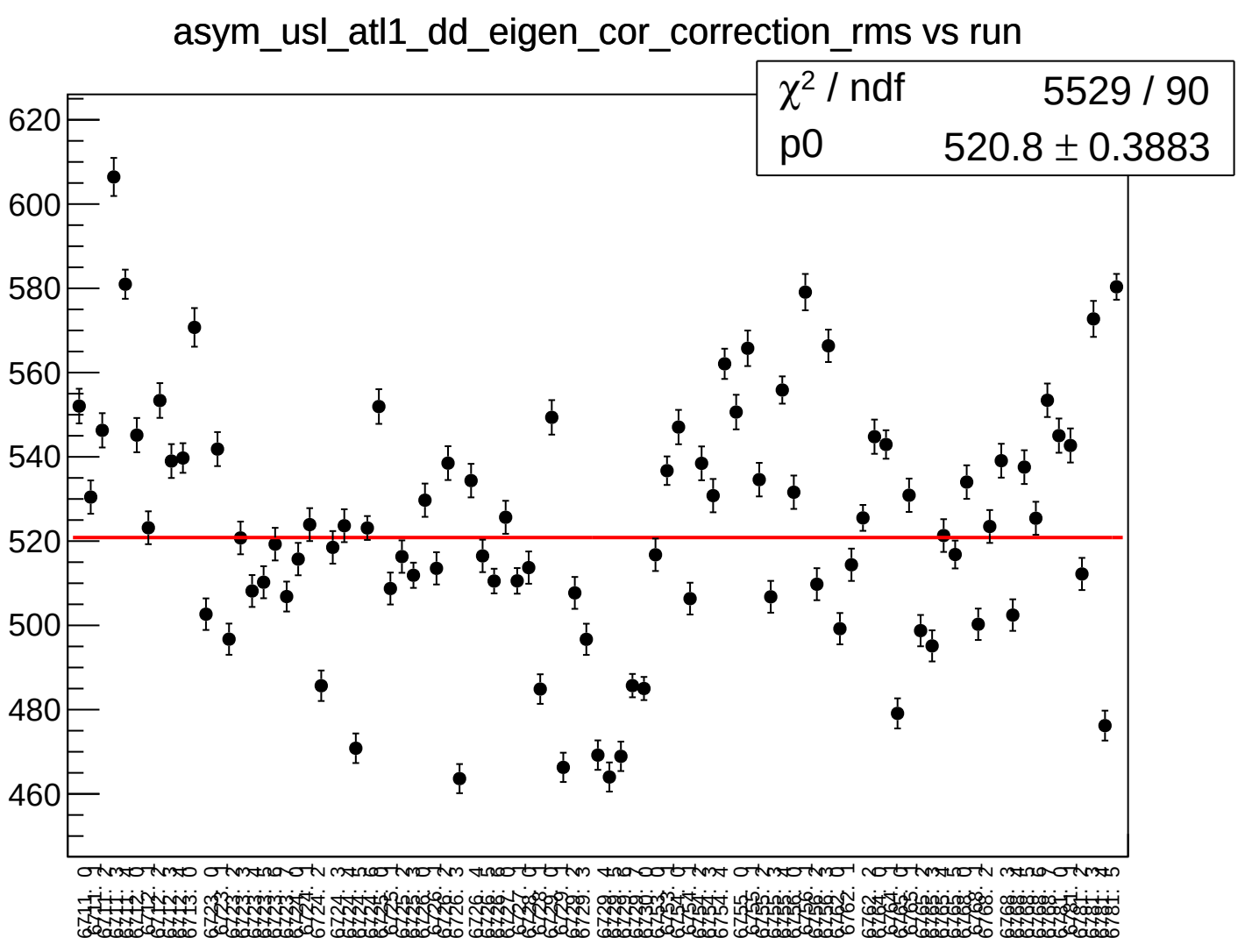

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 89.56 / 90
p0 −626.6 ± 1173
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 1287
Std Dev 0
2
1
0
−1
−2
−3

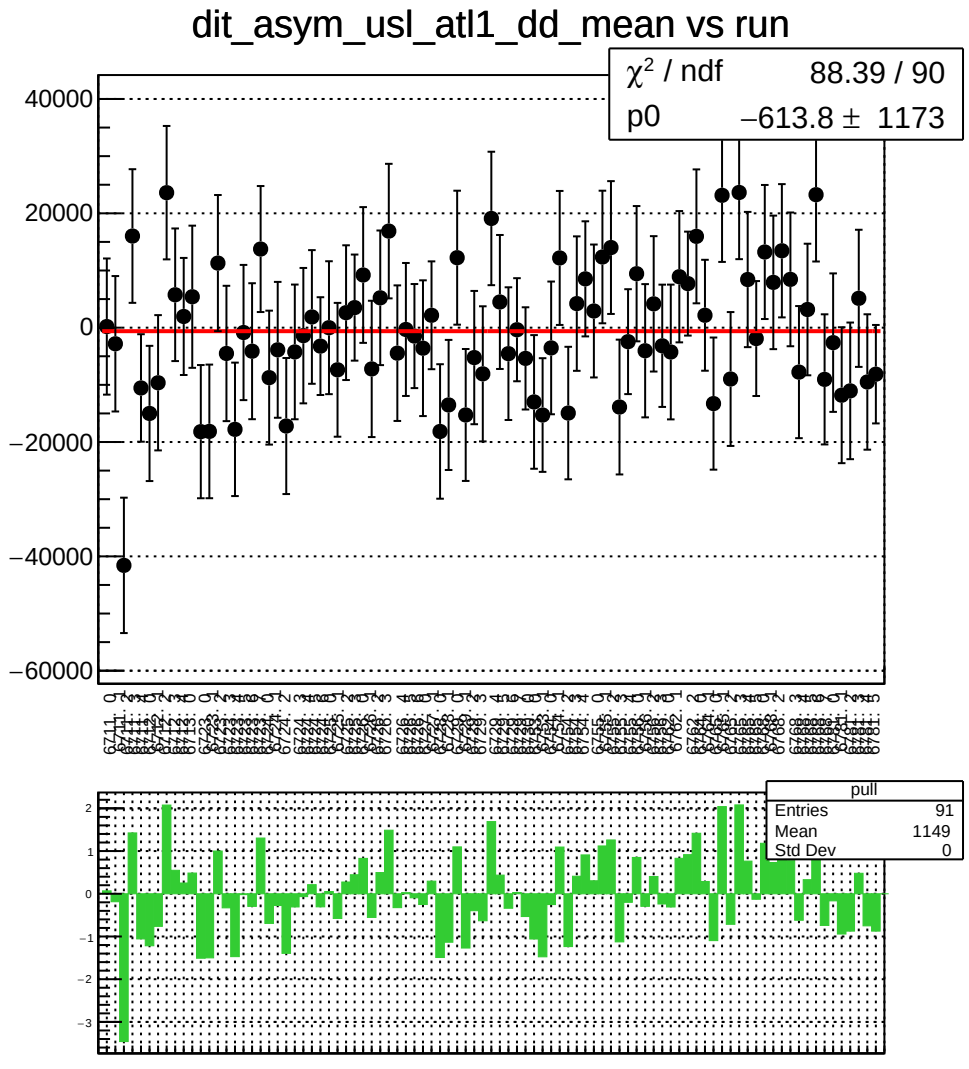

pull1D
Entries 91
Mean 0.004231
Std Dev 0.9921
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

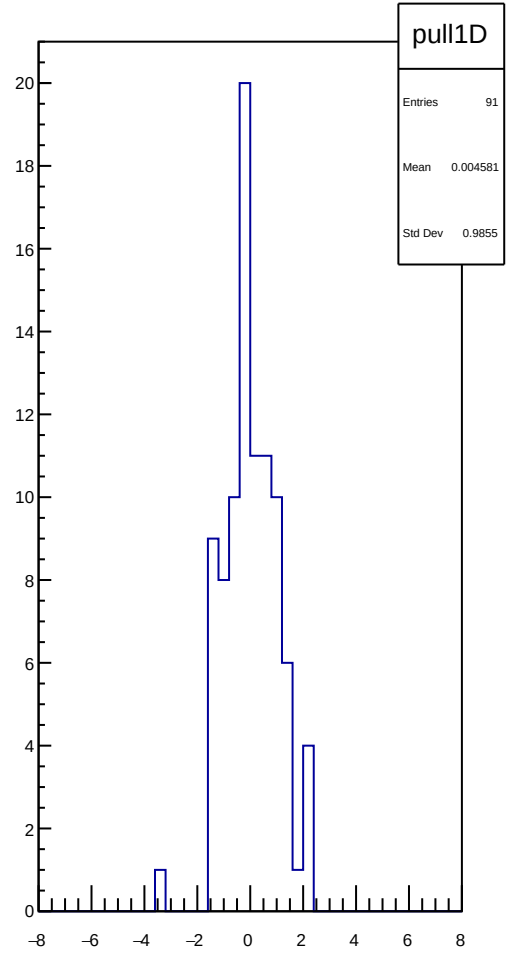

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 202.4 / 90
p0 1114 ± 0.8294
1160
1150
1140
1130
1120
1110
1100
1090
1080

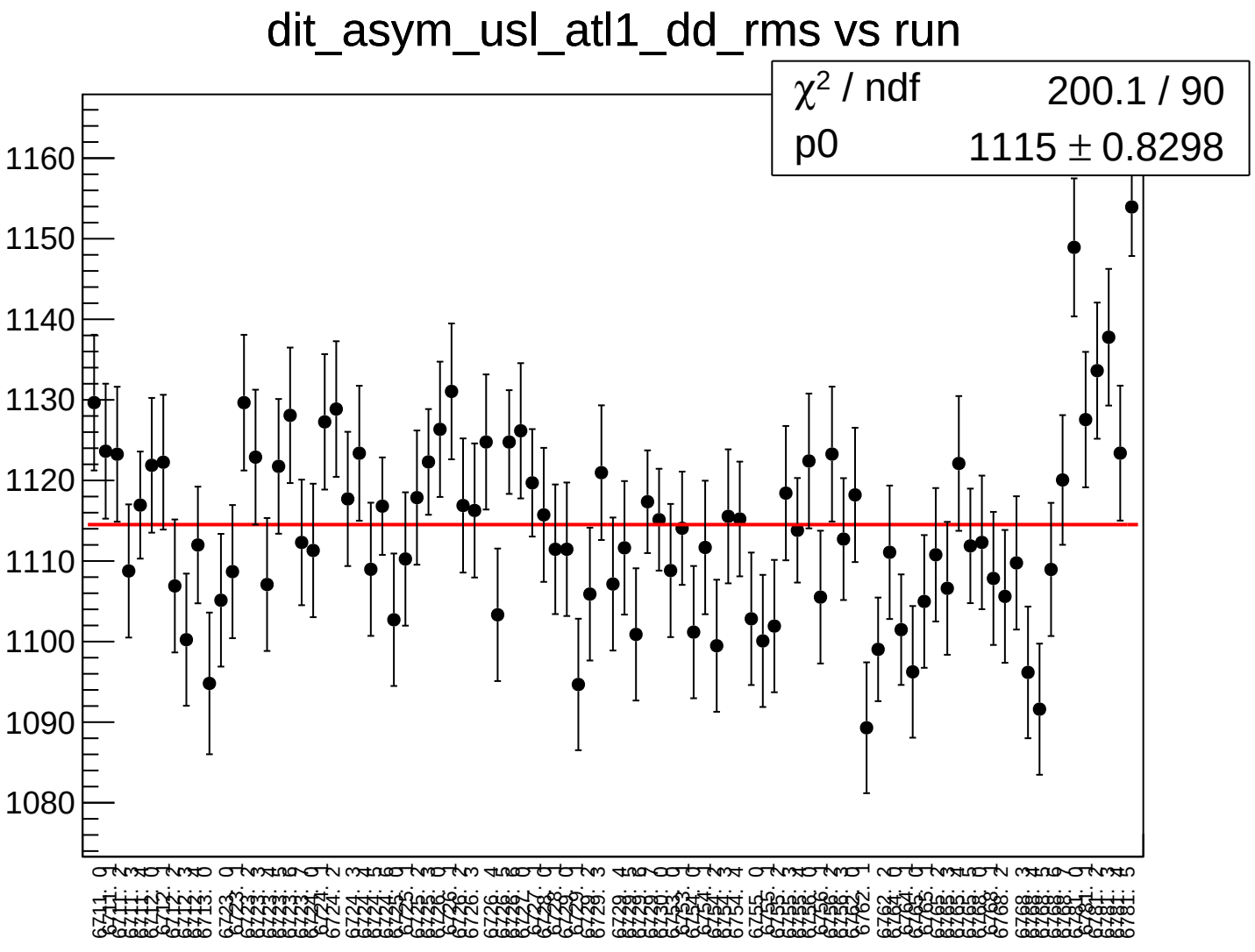

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 110 / 90
p0 78.9 ± 549.2
pull
Entries 91
Mean 170.6
Std Dev 0

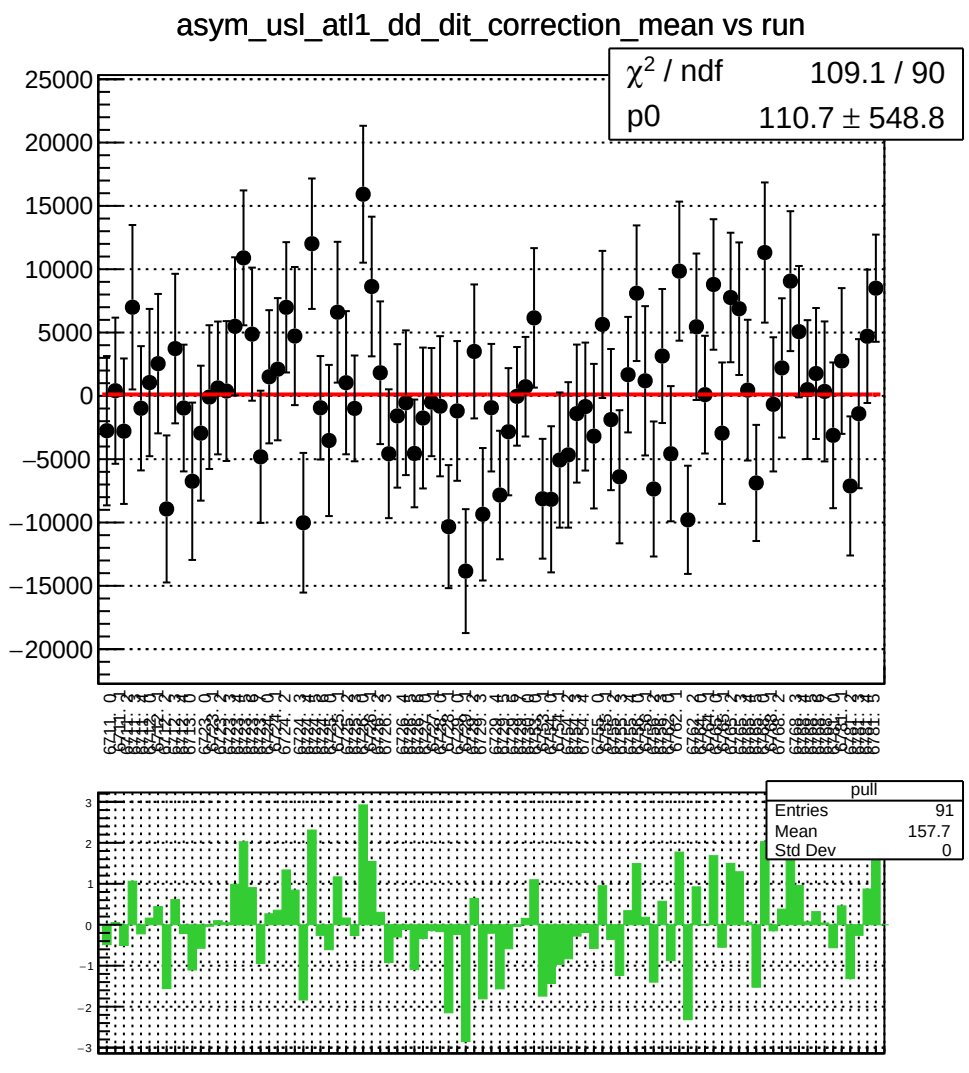

pull1D
Entries 91
Mean 0.01577
Std Dev 1.099

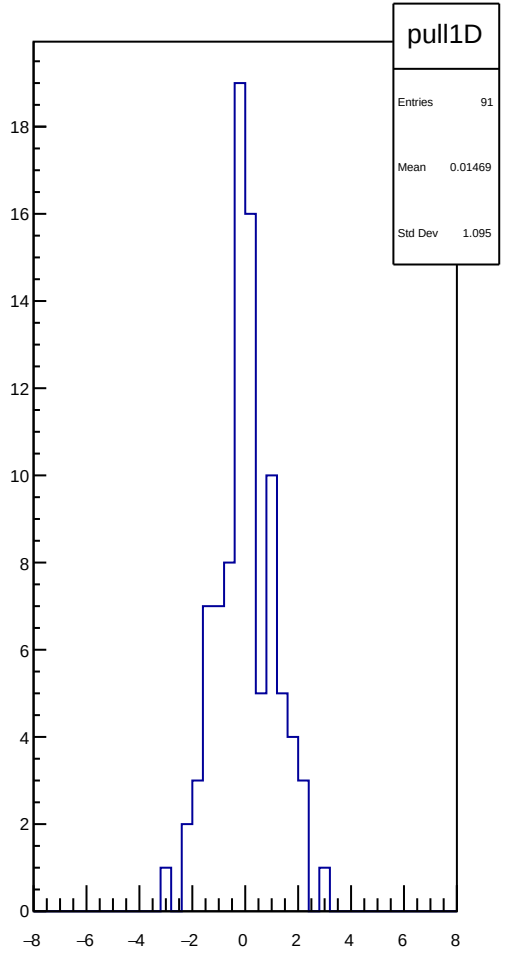

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 5529 / 90
p0 520.8 ± 0.3883
620
600
580
560
540
520
500
480
460

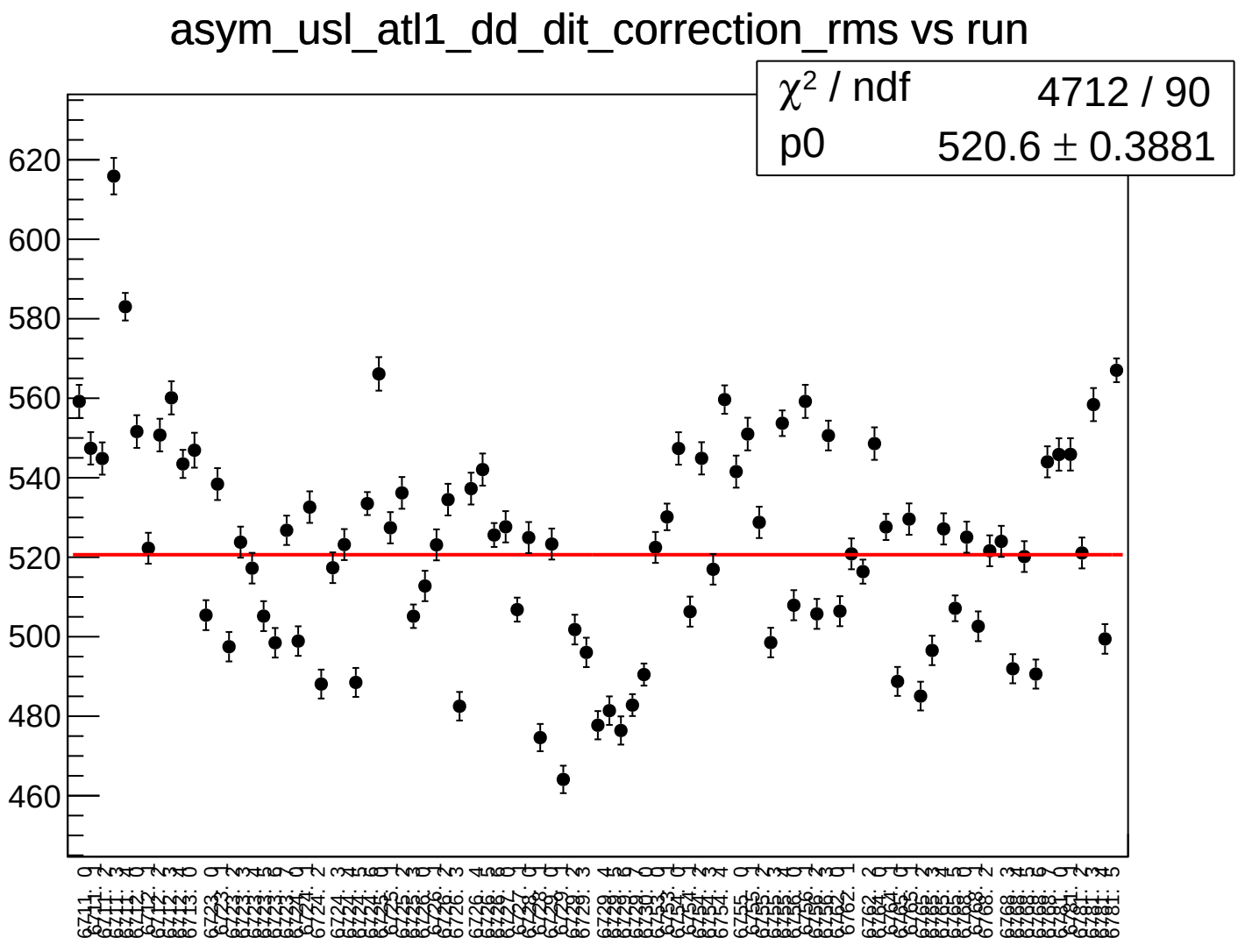

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 88.39 / 90
p0 −613.8 ± 1173
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 1149
Std Dev 0
2
1
0
−1
−2
−3

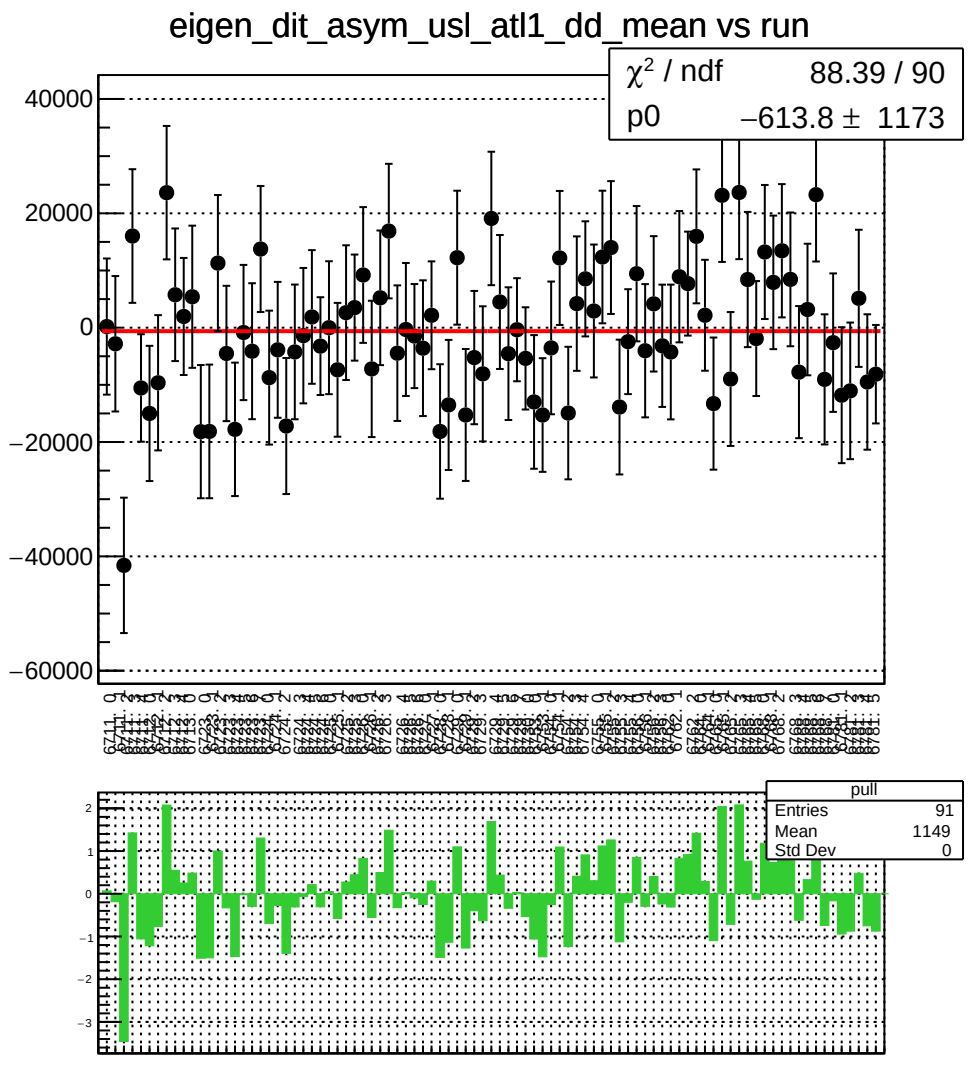

pull1D
Entries 91
Mean 0.004581
Std Dev 0.9855
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

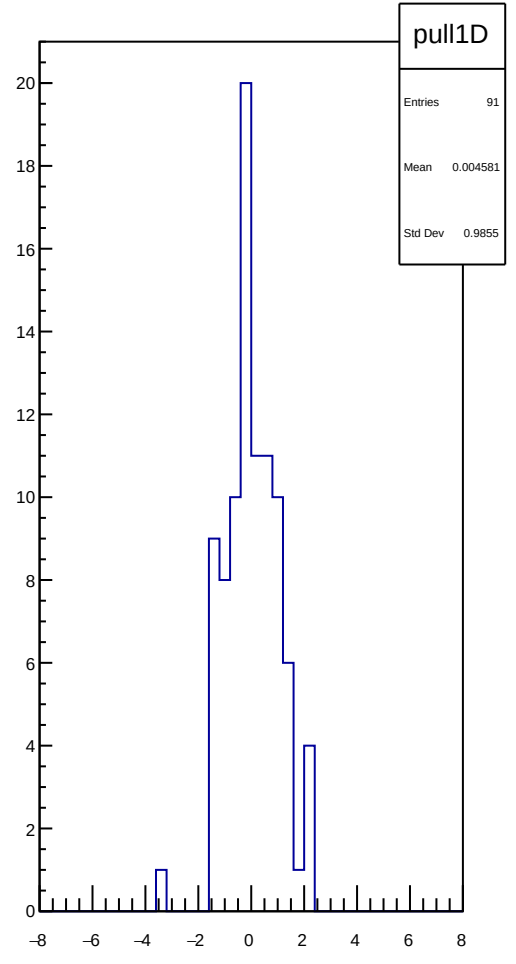

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 200.1 / 90
p0 1115 ± 0.8298
1160
1150
1140
1130
1120
1110
1100
1090
1080

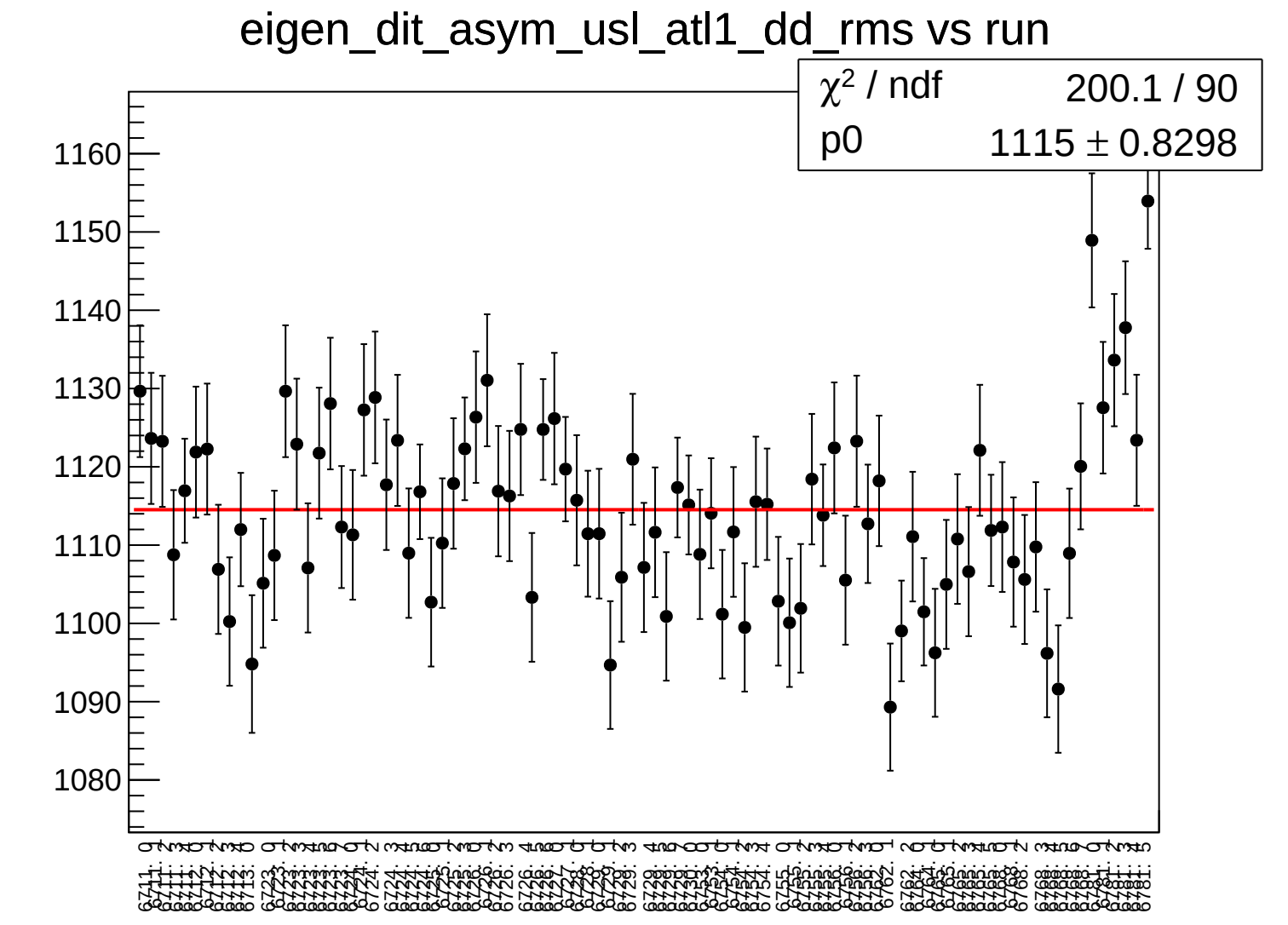

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 109.1 / 90
p0 110.7 ± 548.8
pull
Entries 91
Mean 157.7
Std Dev 0

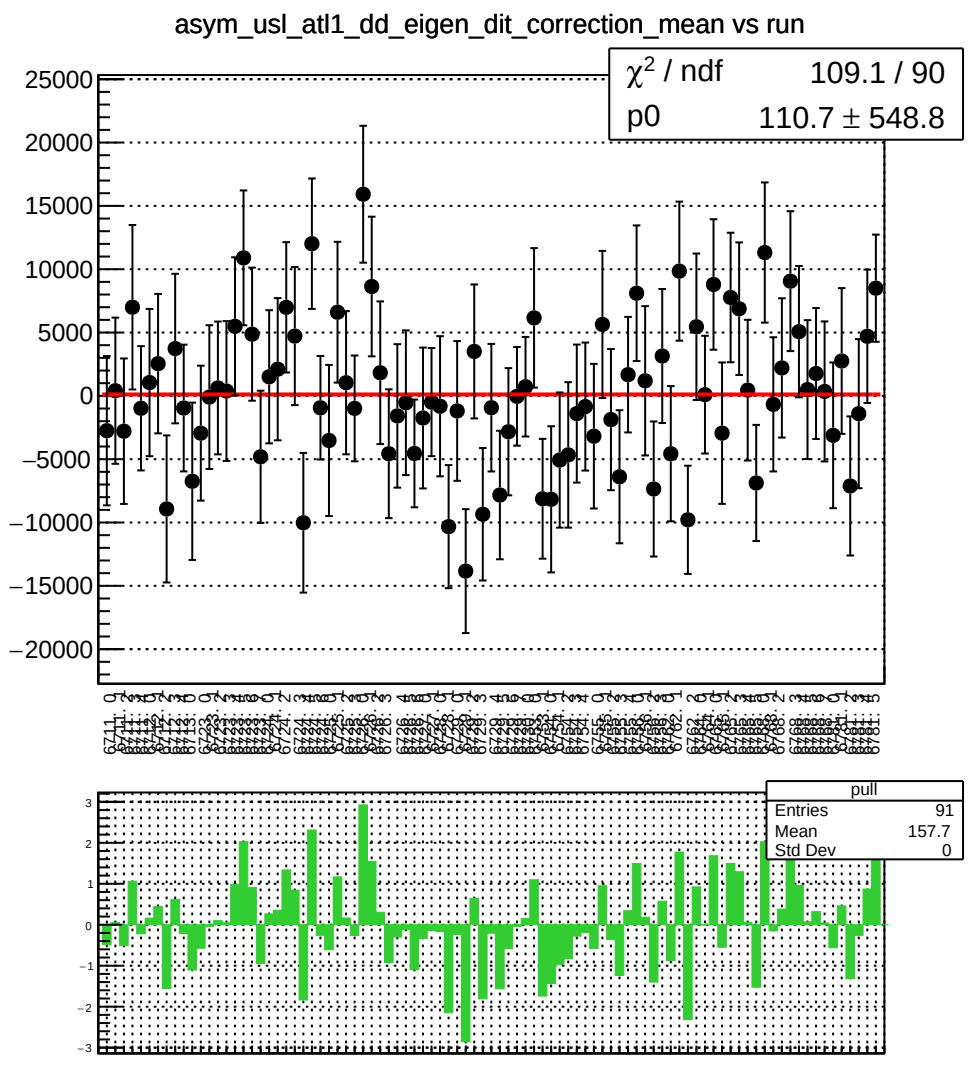

pull1D
Entries 91
Mean 0.01469
Std Dev 1.095

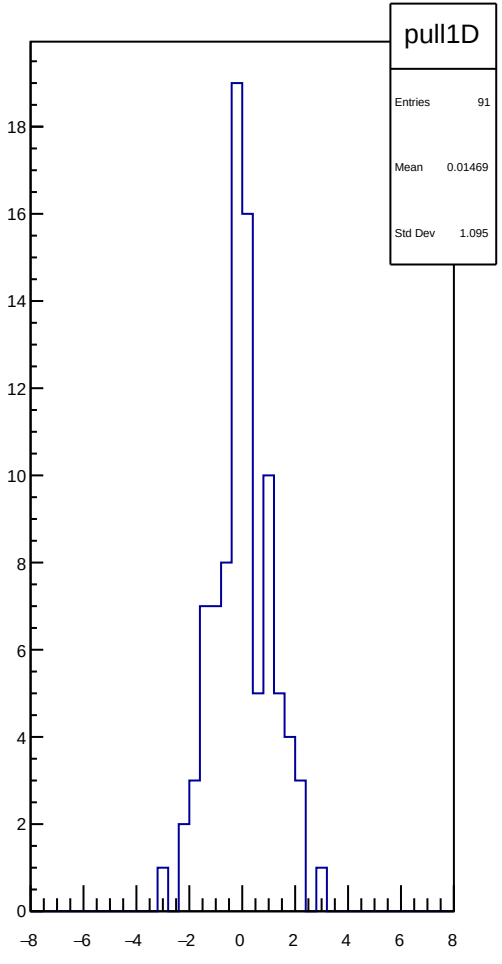

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 4712 / 90
p0 520.6 ± 0.3881
620
600
580
560
540
520
500
480
460

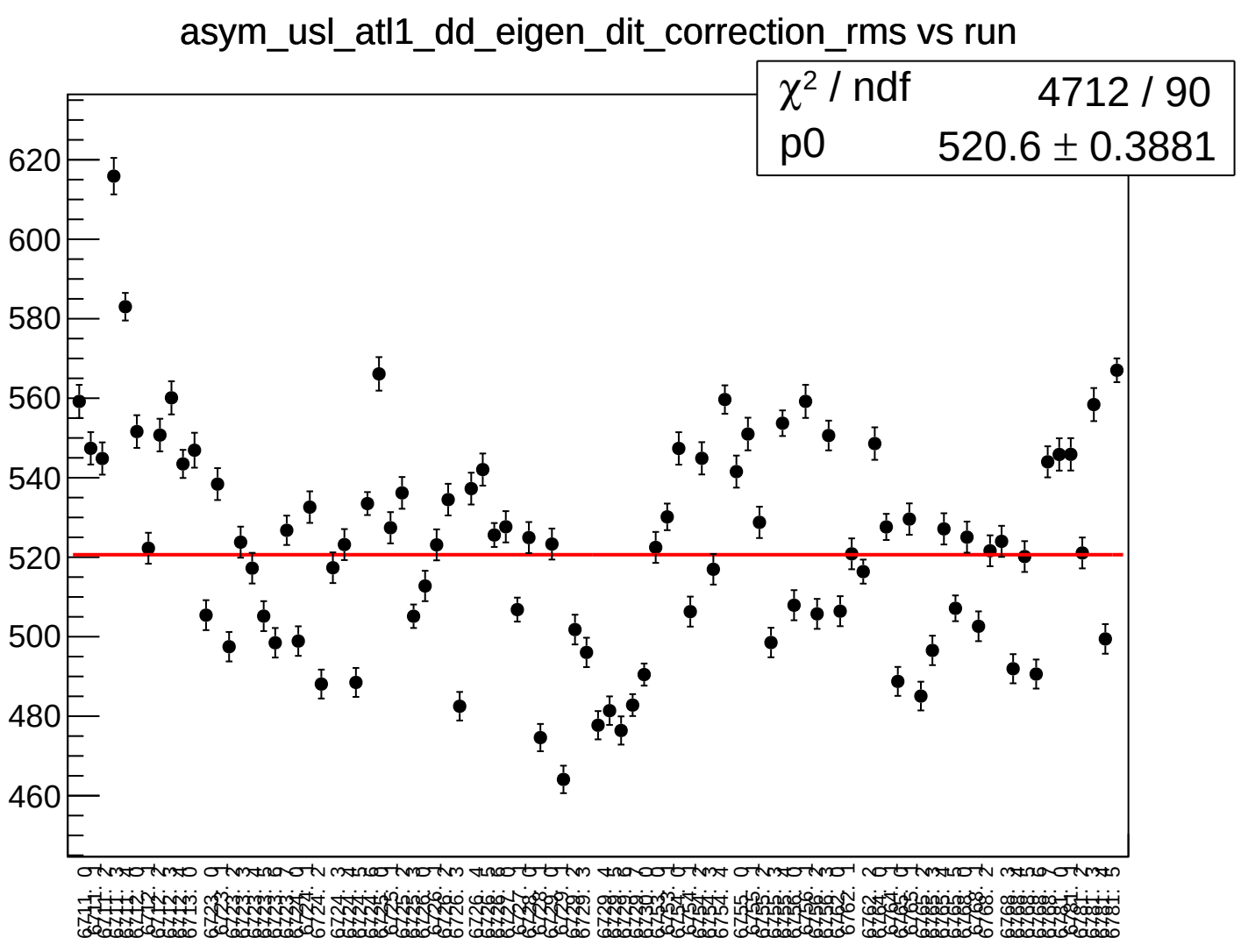

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 88.39 / 90
p0 −613.8 ± 1173
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 1149
Std Dev 0
2
1
0
−1
−2
−3

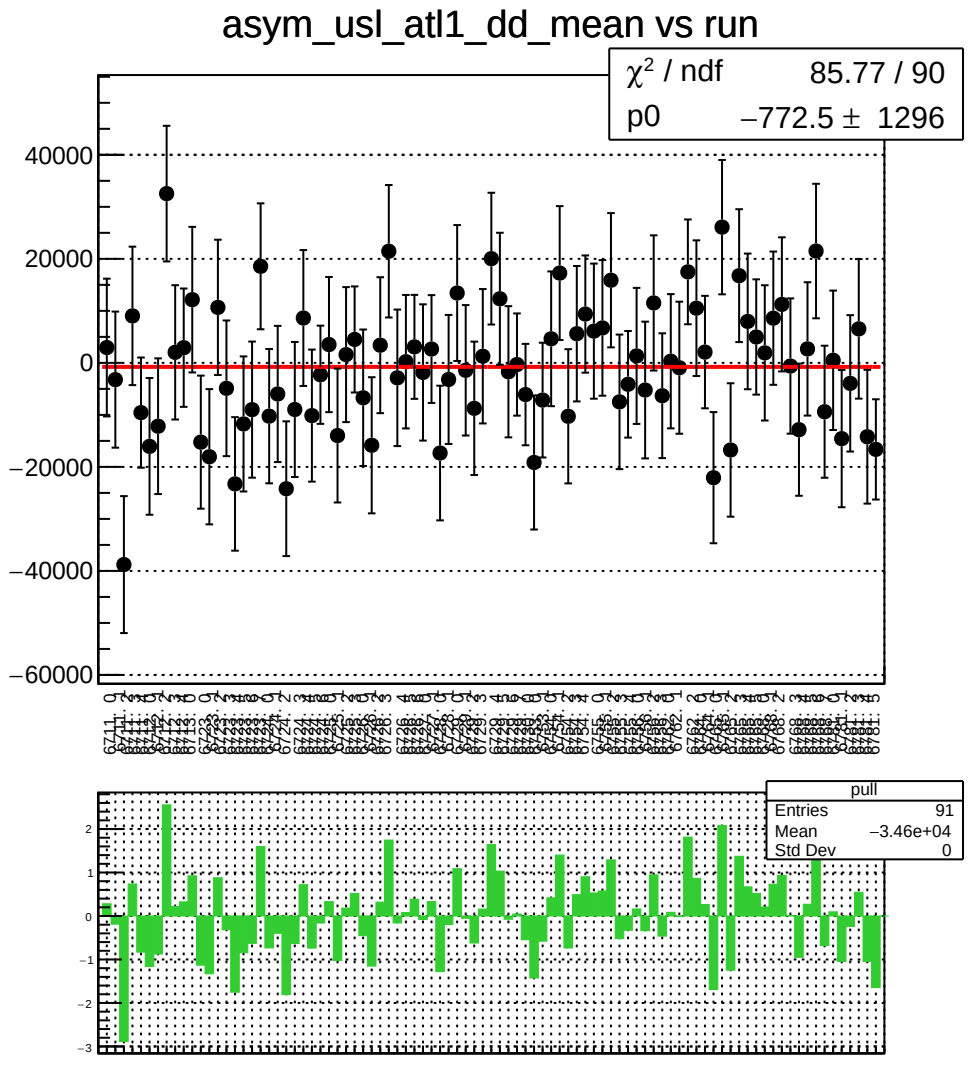

pull1D
Entries 91
Mean 0.004581
Std Dev 0.9855
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

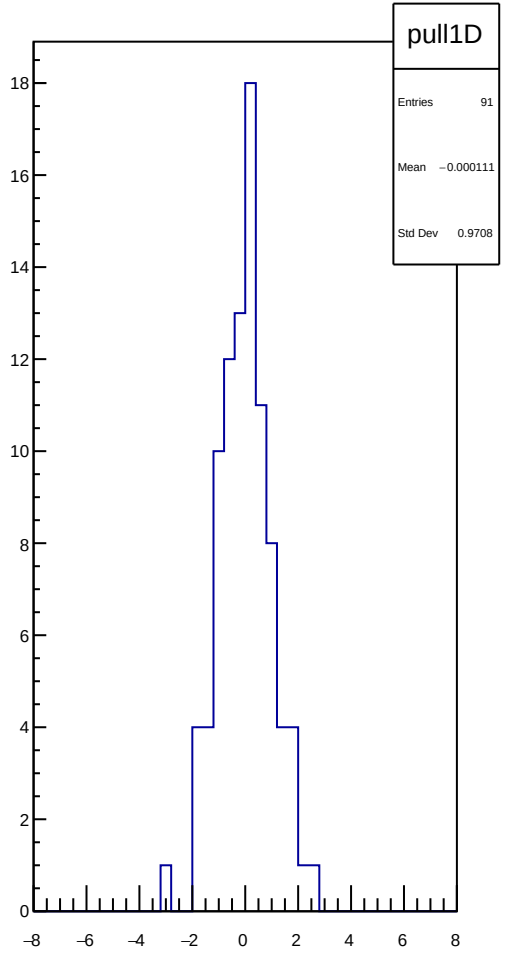

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 200.1 / 90
p0 1115 ± 0.8298
1160
1150
1140
1130
1120
1110
1100
1090
1080

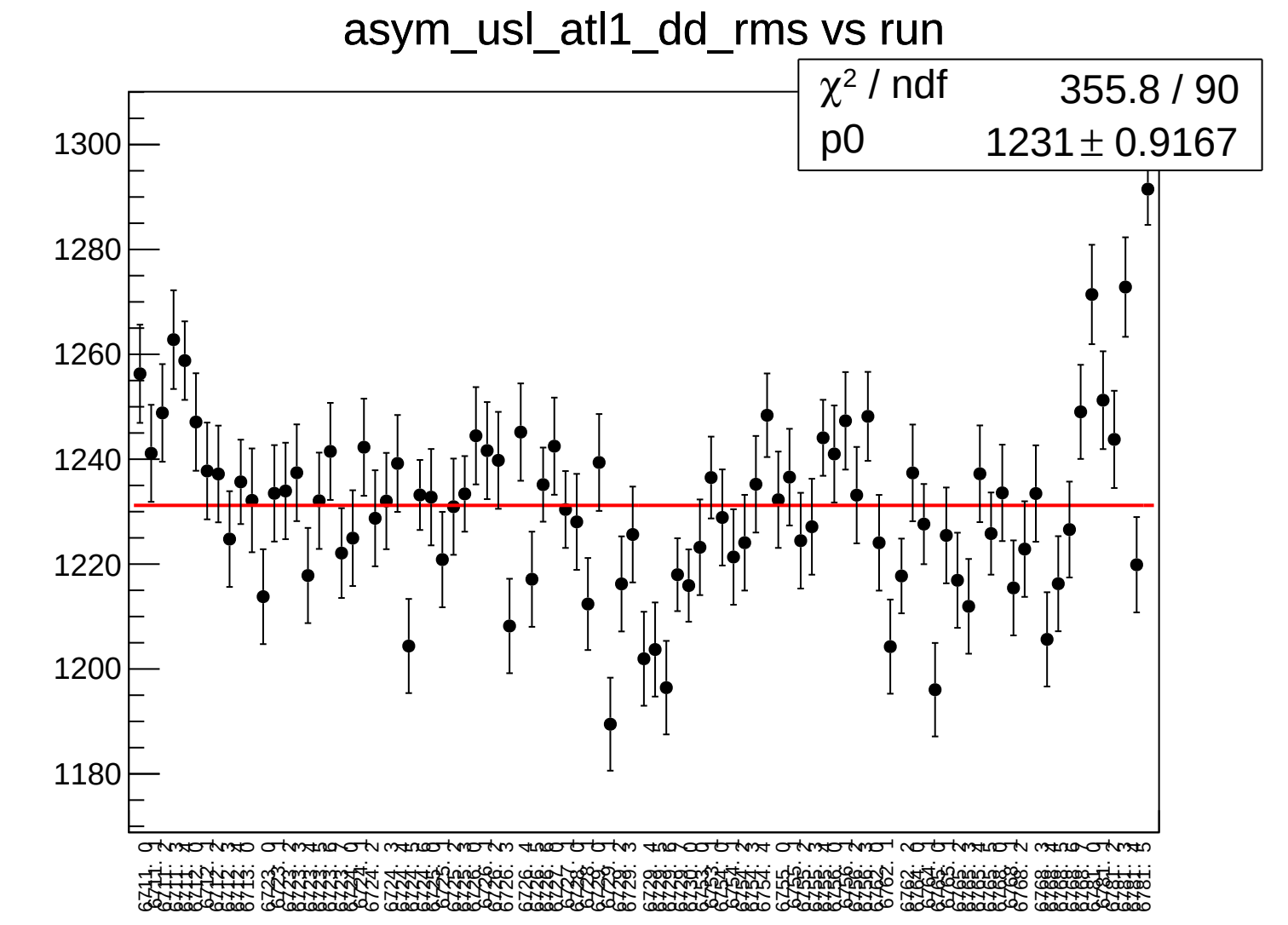

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 109.1 / 90
p0 110.7 ± 548.8
pull
Entries 91
Mean 157.7
Std Dev 0

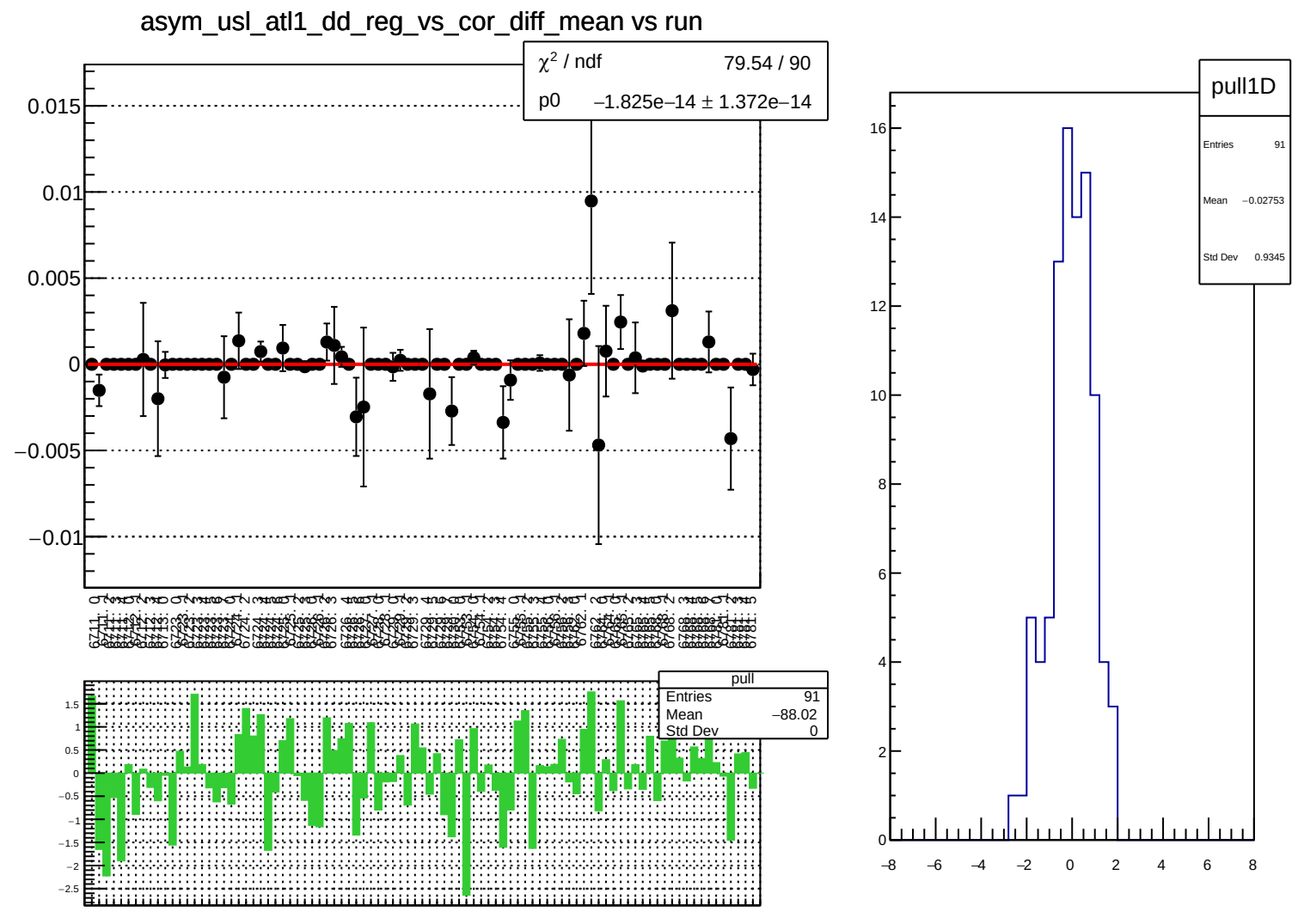

pull1D
Entries 91
Mean 0.01469
Std Dev 1.095

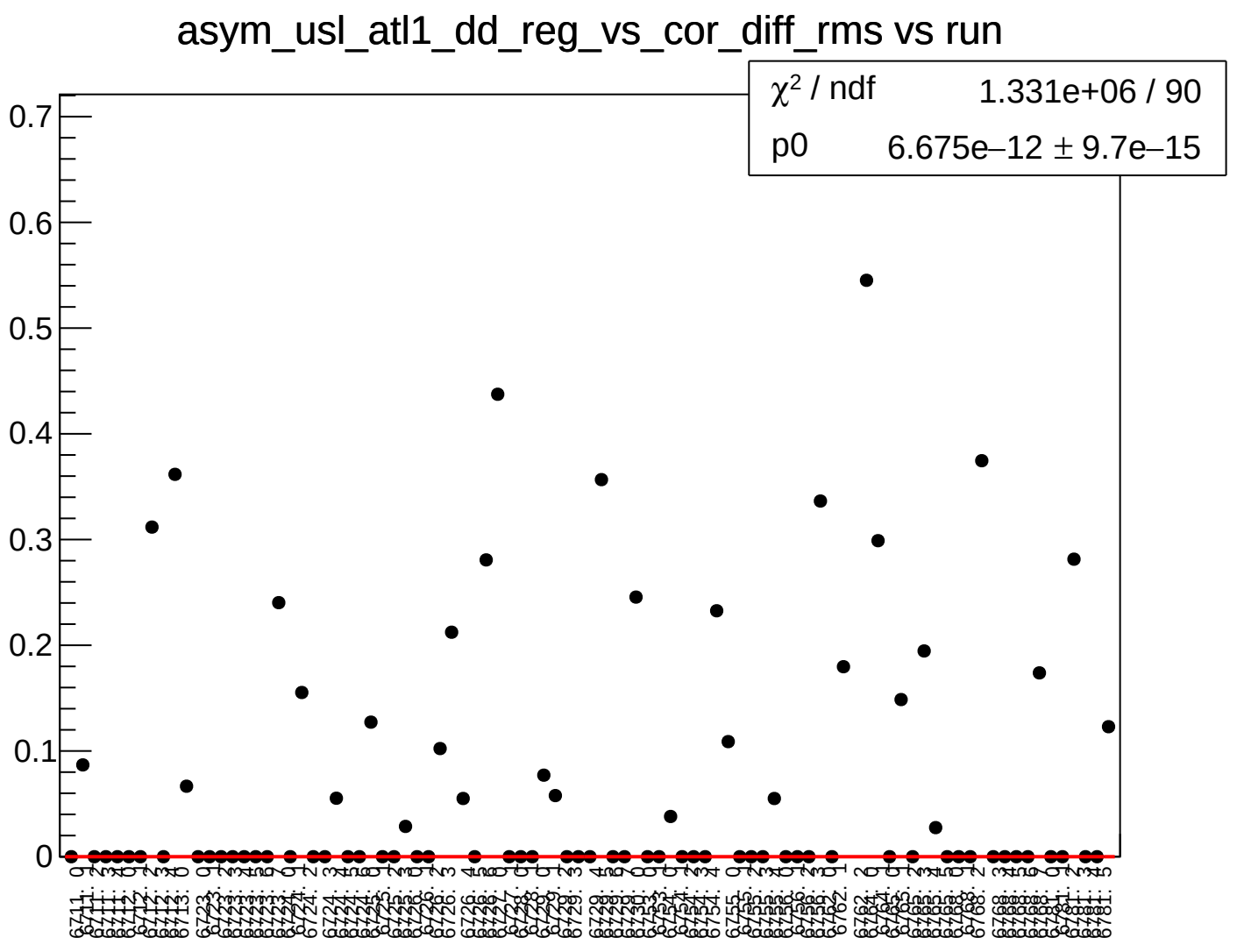

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 4712 / 90
p0 520.6 ± 0.3881
620
600
580
560
540
520
500
480
460

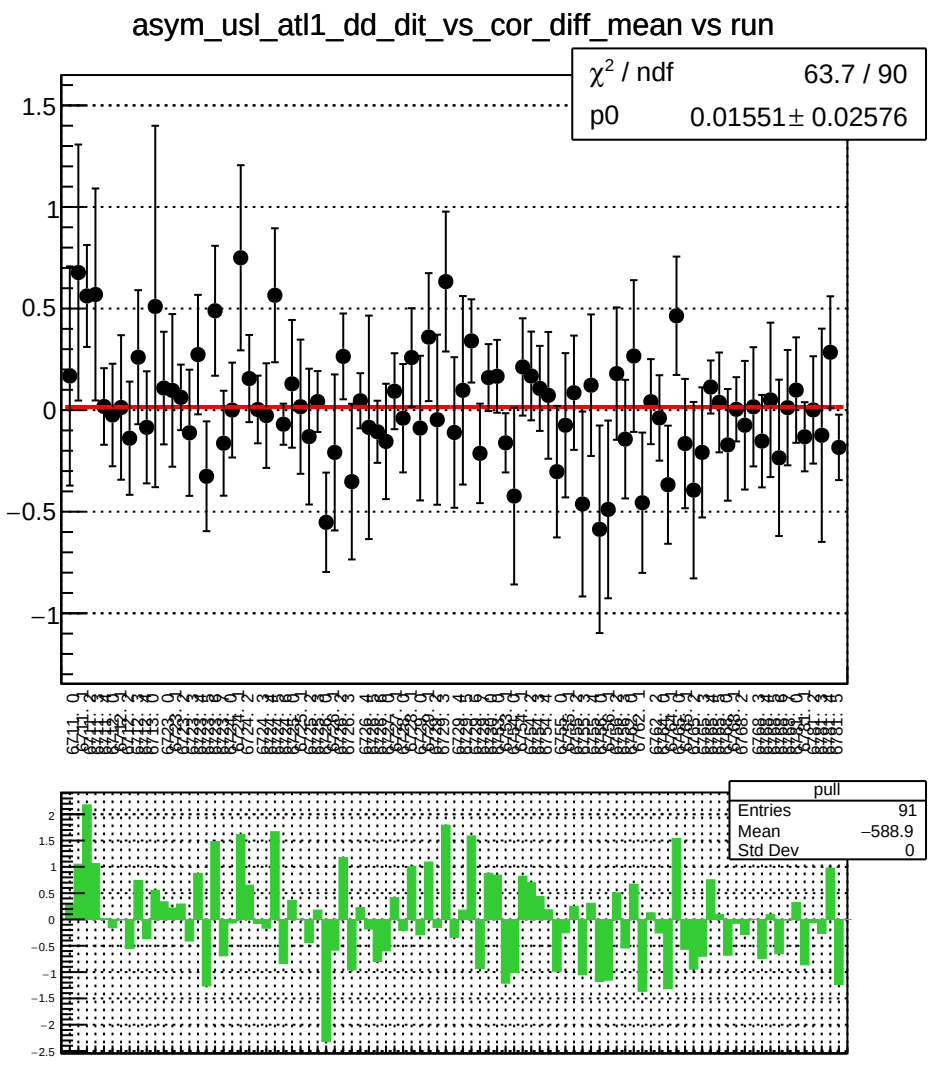

asym_usl_atl1_dd_mean vs run
χ² / ndf 85.77 / 90
p0 −772.5 ± 1296
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −3.46e+04
Std Dev 0
2
1
0
−1
−2
−3

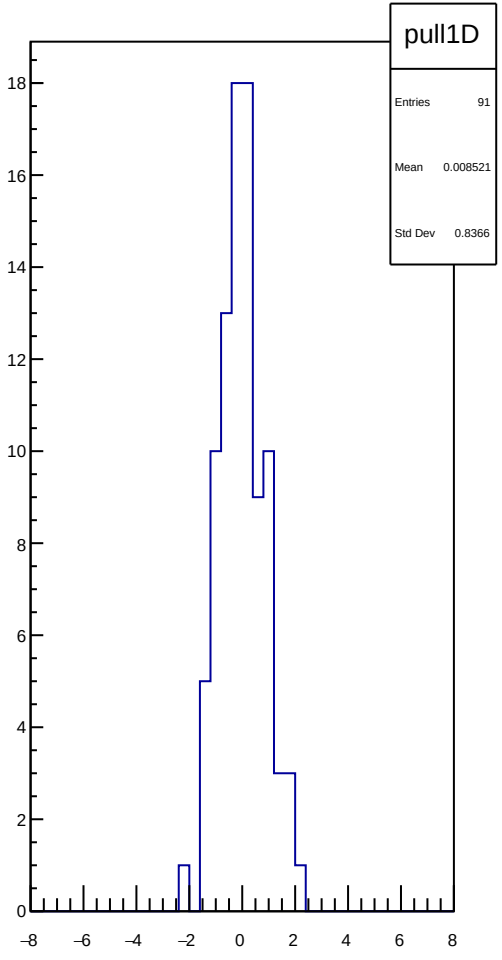

pull1D
Entries 91
Mean −0.000111
Std Dev 0.9708
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

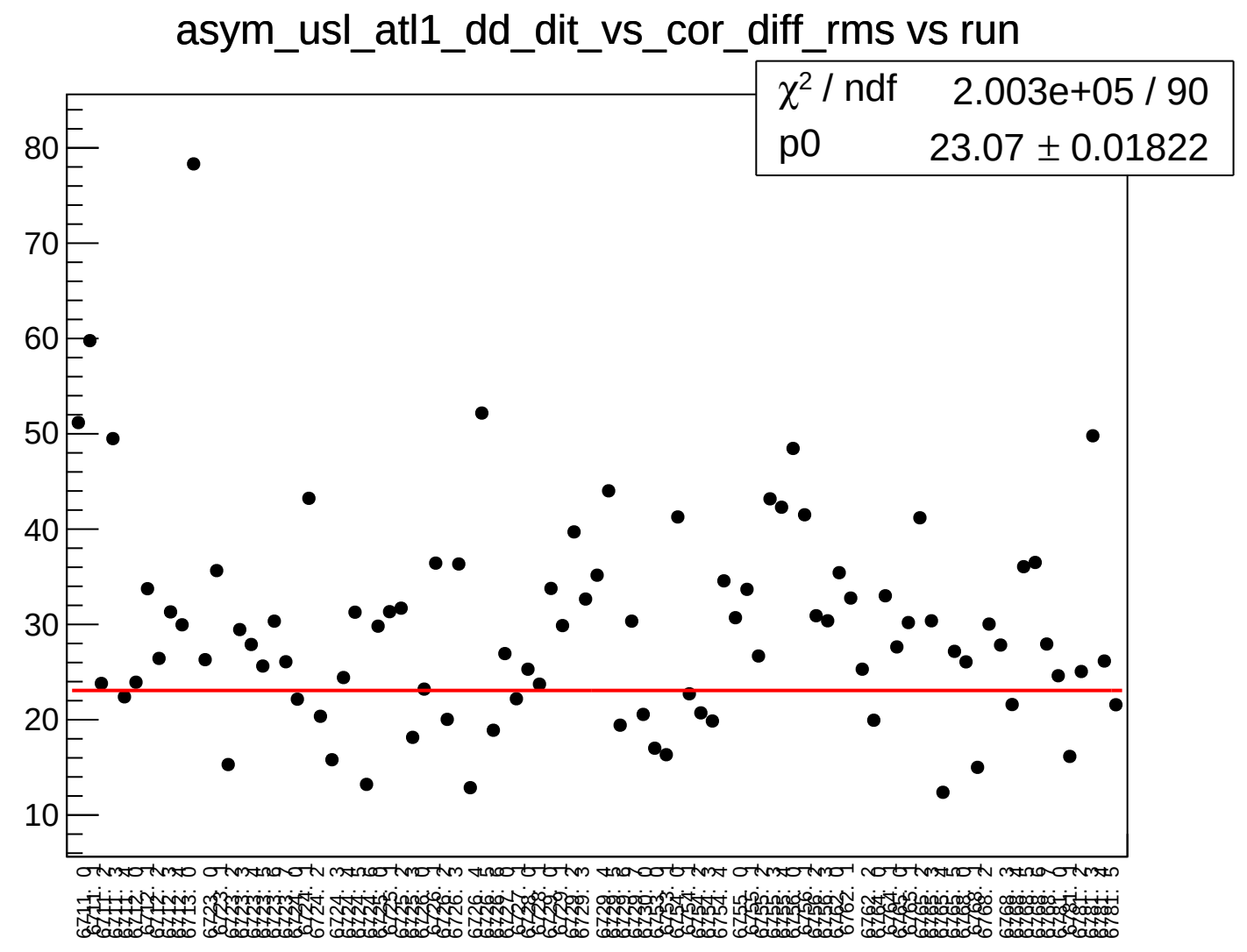

asym_usl_atl1_dd_rms vs run
χ² / ndf 355.8 / 90
p0 1231 ± 0.9167
1300
1280
1260
1240
1220
1200
1180

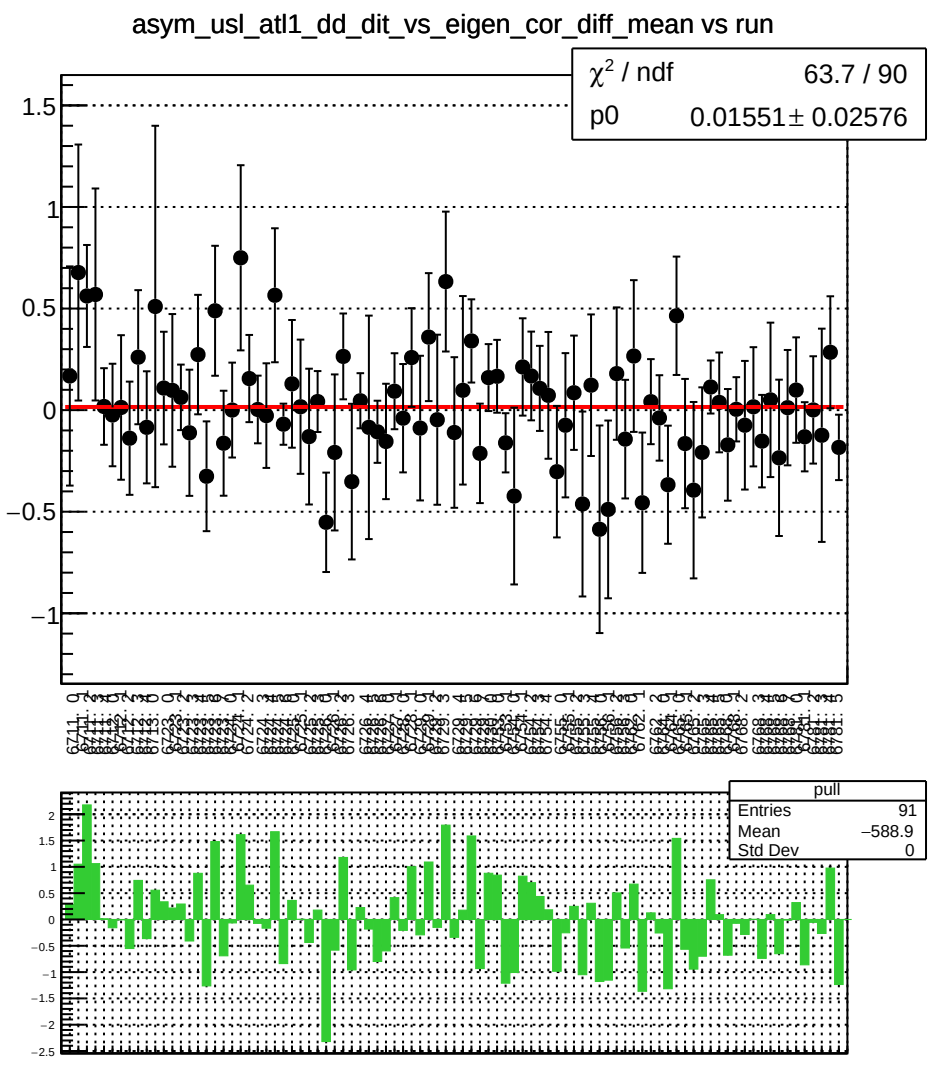

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.54 / 90
p0 −1.825e−14 ± 1.372e−14
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean −88.02
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 91
Mean −0.02753
Std Dev 0.9345
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

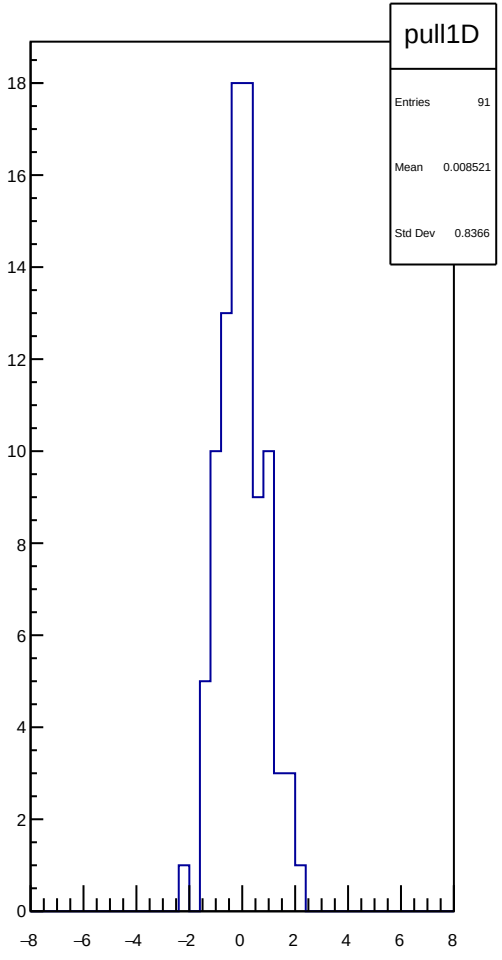

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.331e+06 / 90
p0 6.675e−12 ± 9.7e−15
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

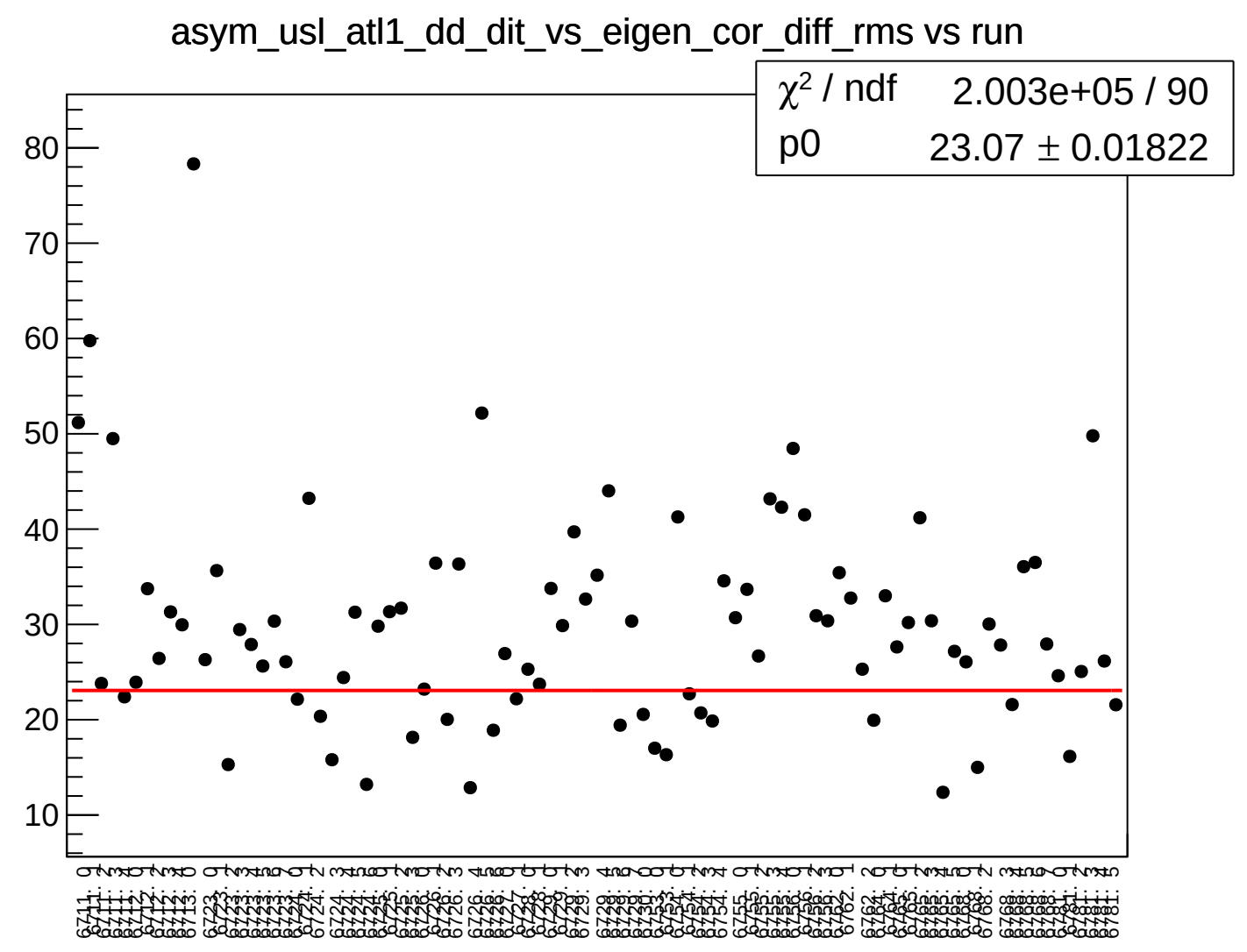

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 63.7 / 90
p0 0.01551 ± 0.02576
pull
Entries 91
Mean −588.9
Std Dev 0

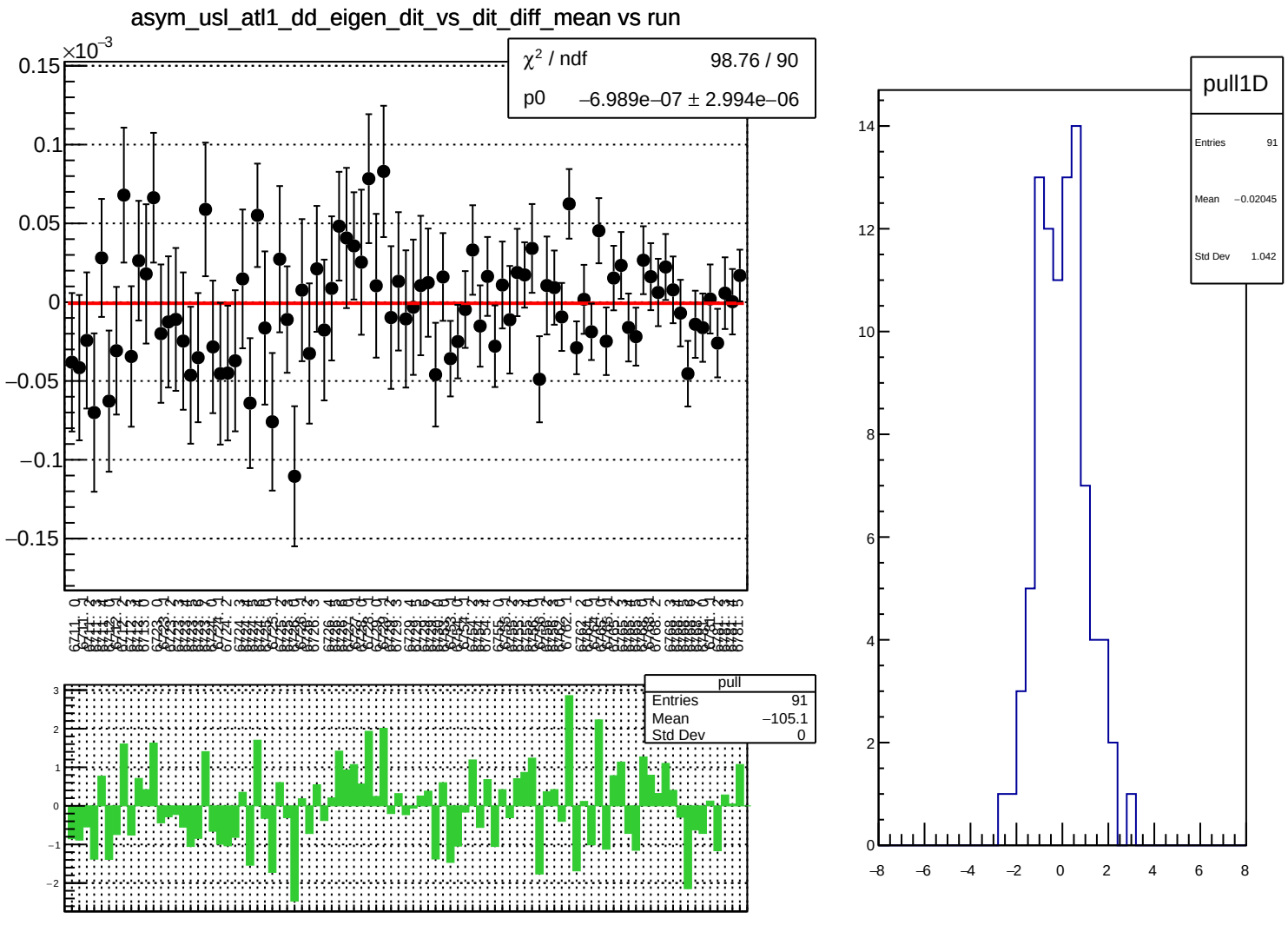

pull1D
Entries 91
Mean 0.008521
Std Dev 0.8366

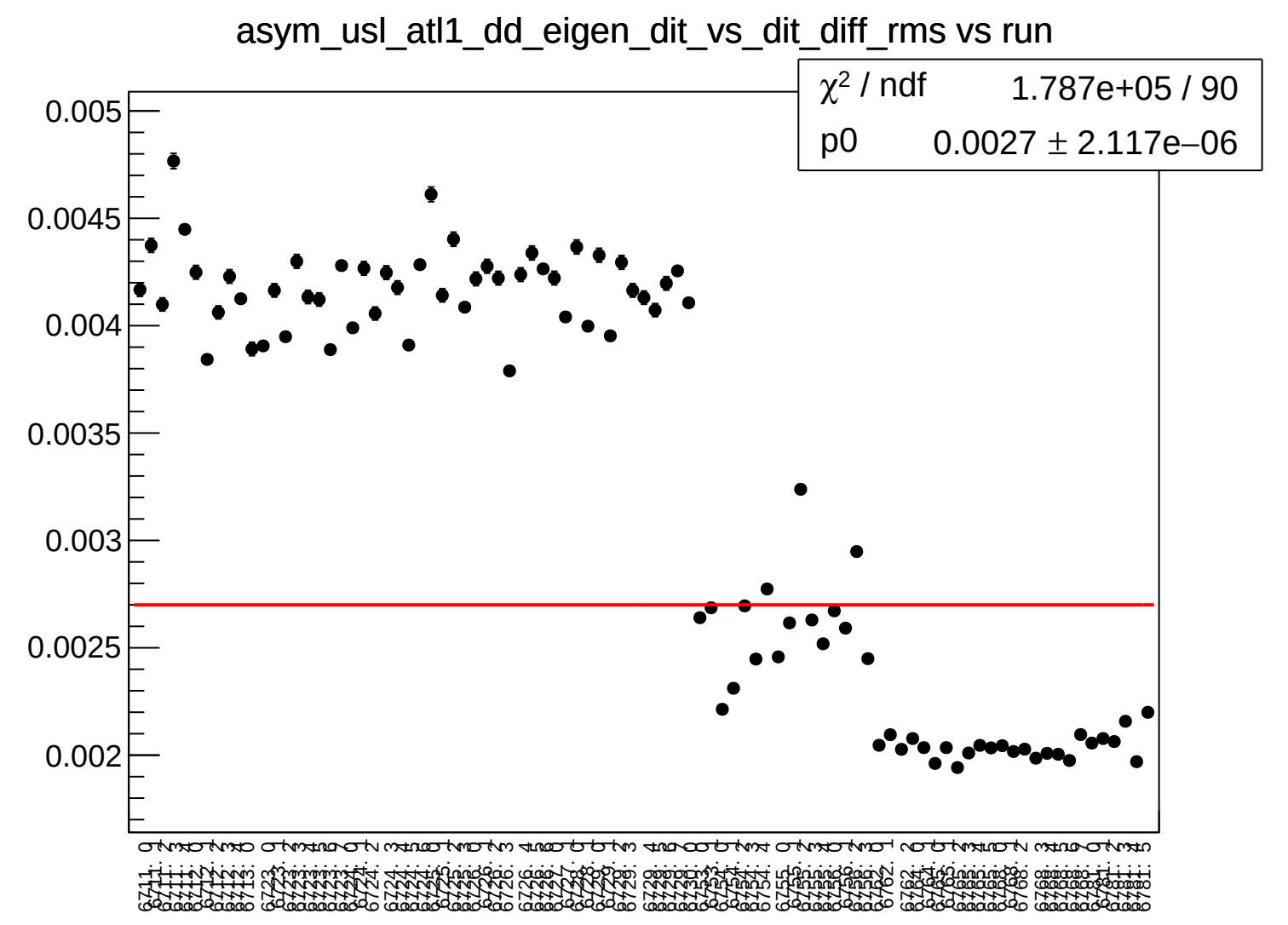

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.003e+05 / 90
p0 23.07 ± 0.01822
80
70
60
50
40
30
20
10

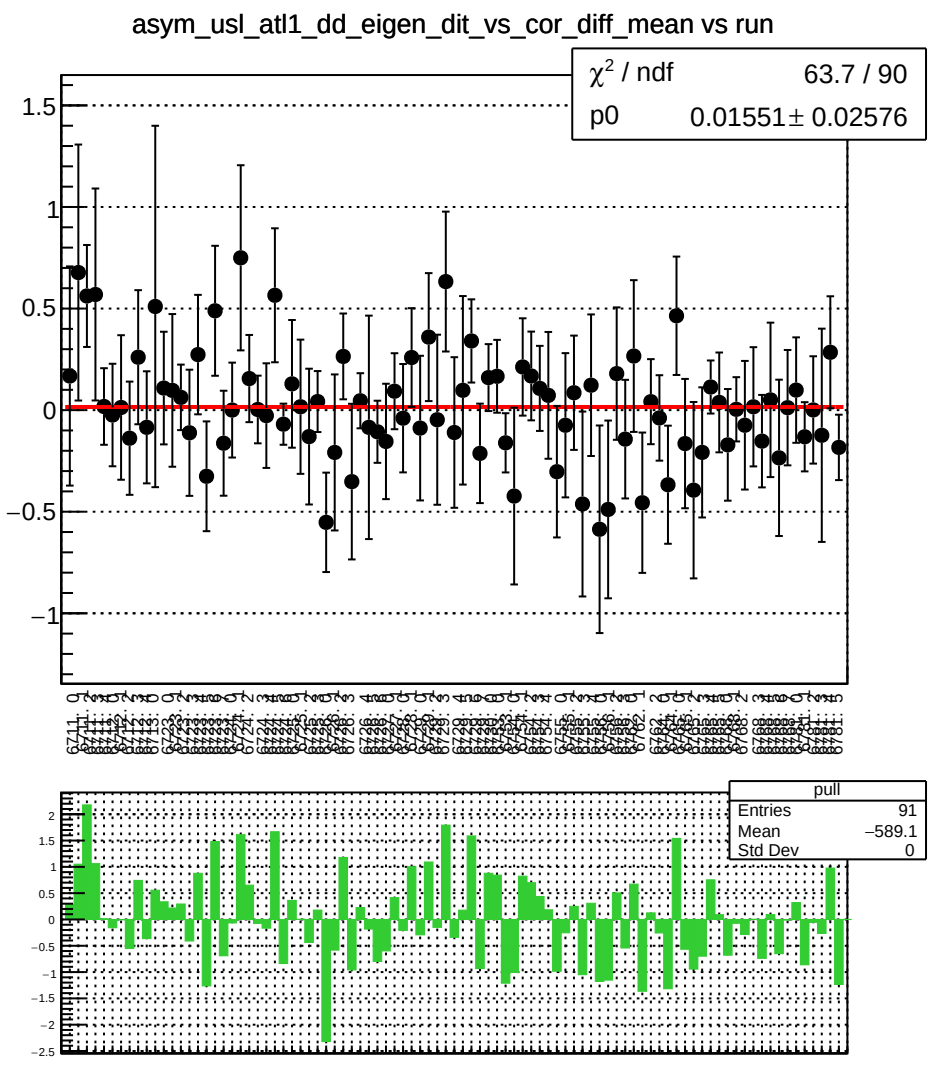

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.7 / 90
p0 0.01551 ± 0.02576
pull
Entries 91
Mean −588.9
Std Dev 0

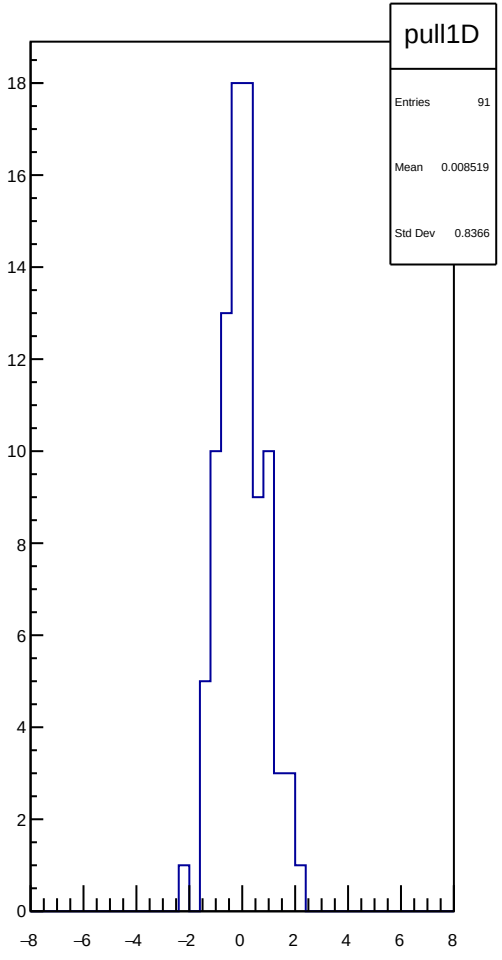

pull1D
Entries 91
Mean 0.008521
Std Dev 0.8366

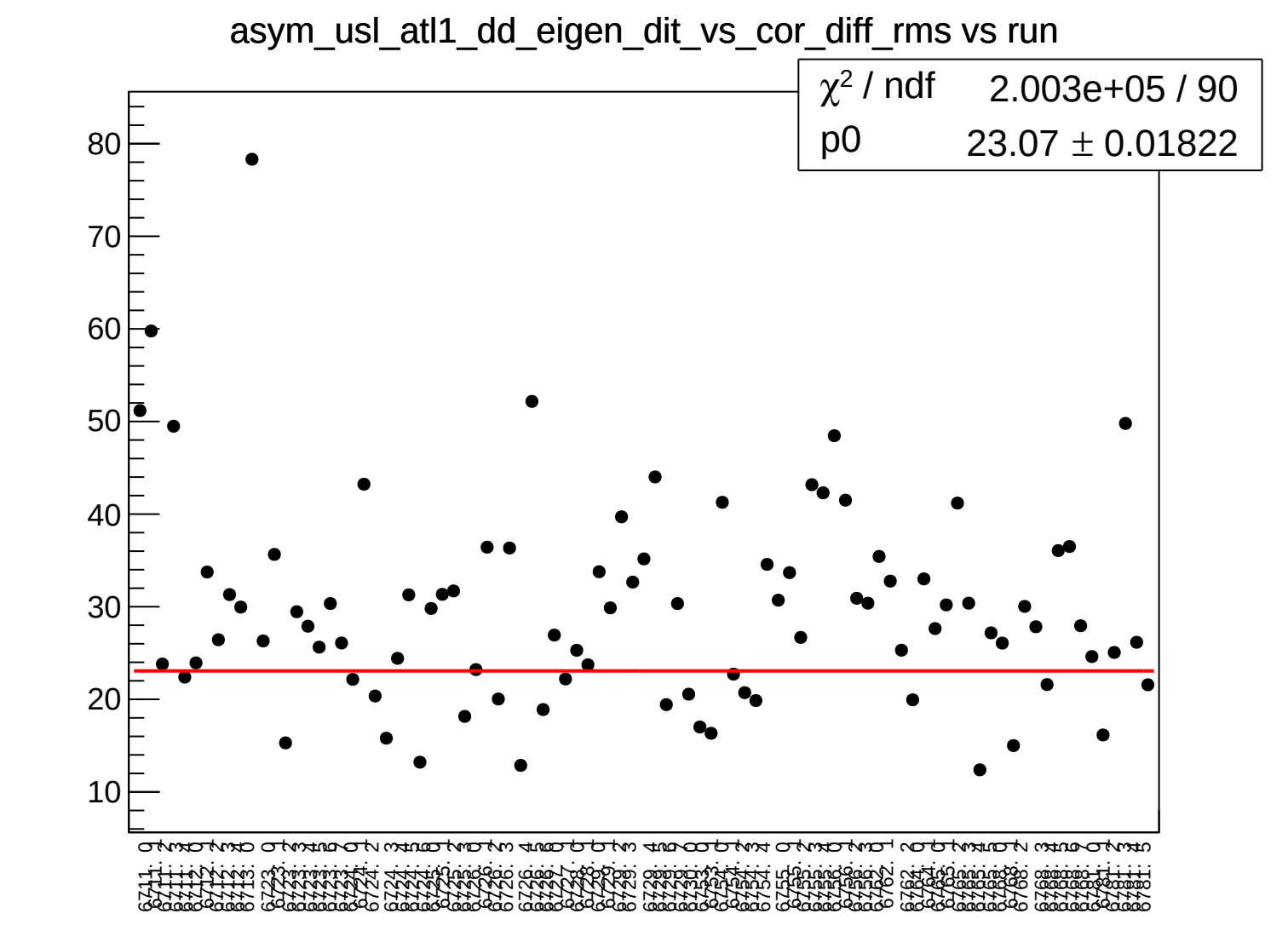

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.003e+05 / 90
p0 23.07 ± 0.01822
80
70
60
50
40
30
20
10

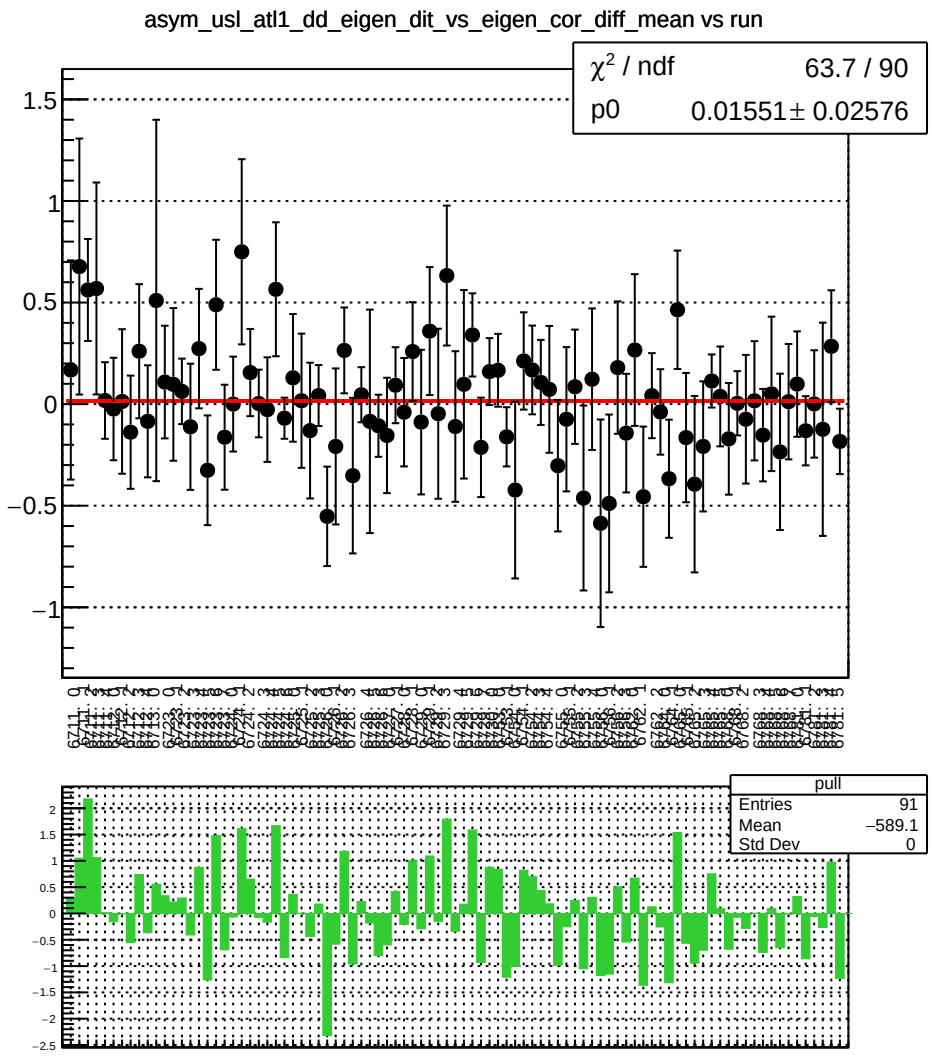

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.76 / 90
p0 −6.989e−07 ± 2.994e−06
pull
Entries 91
Mean −105.1
Std Dev 0
pull1D
Entries 91
Mean −0.02045
Std Dev 1.042

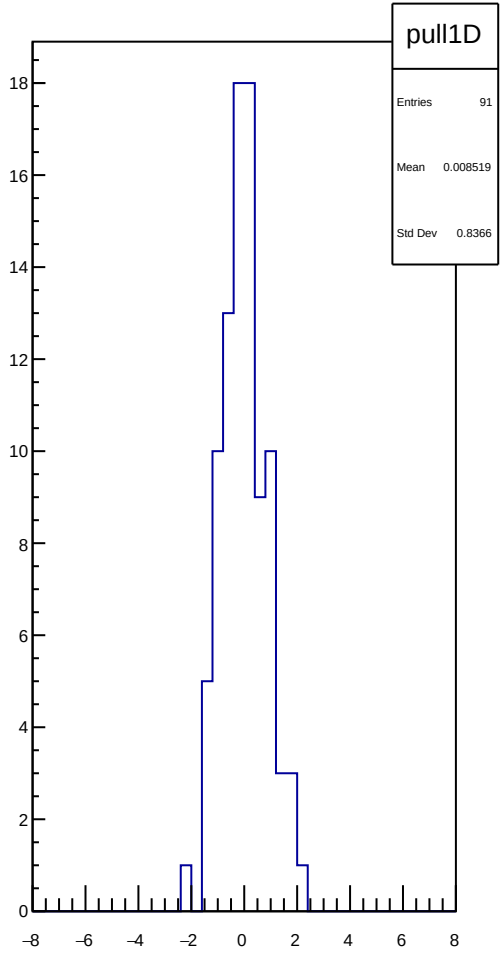

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.787e+05 / 90
p0 0.0027 ± 2.117e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

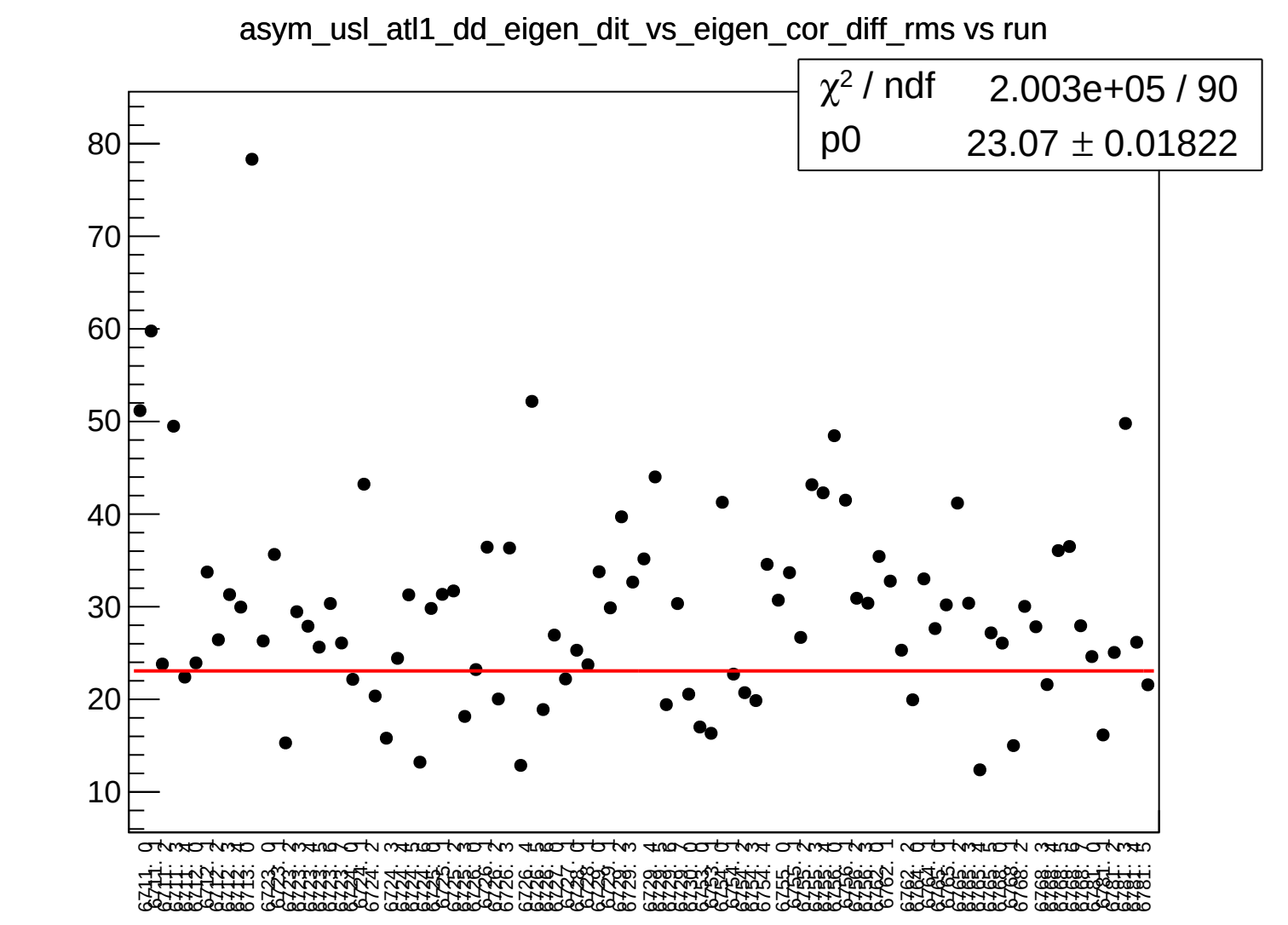

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 63.7 / 90
p0 0.01551 ± 0.02576
pull
Entries 91
Mean −589.1
Std Dev 0

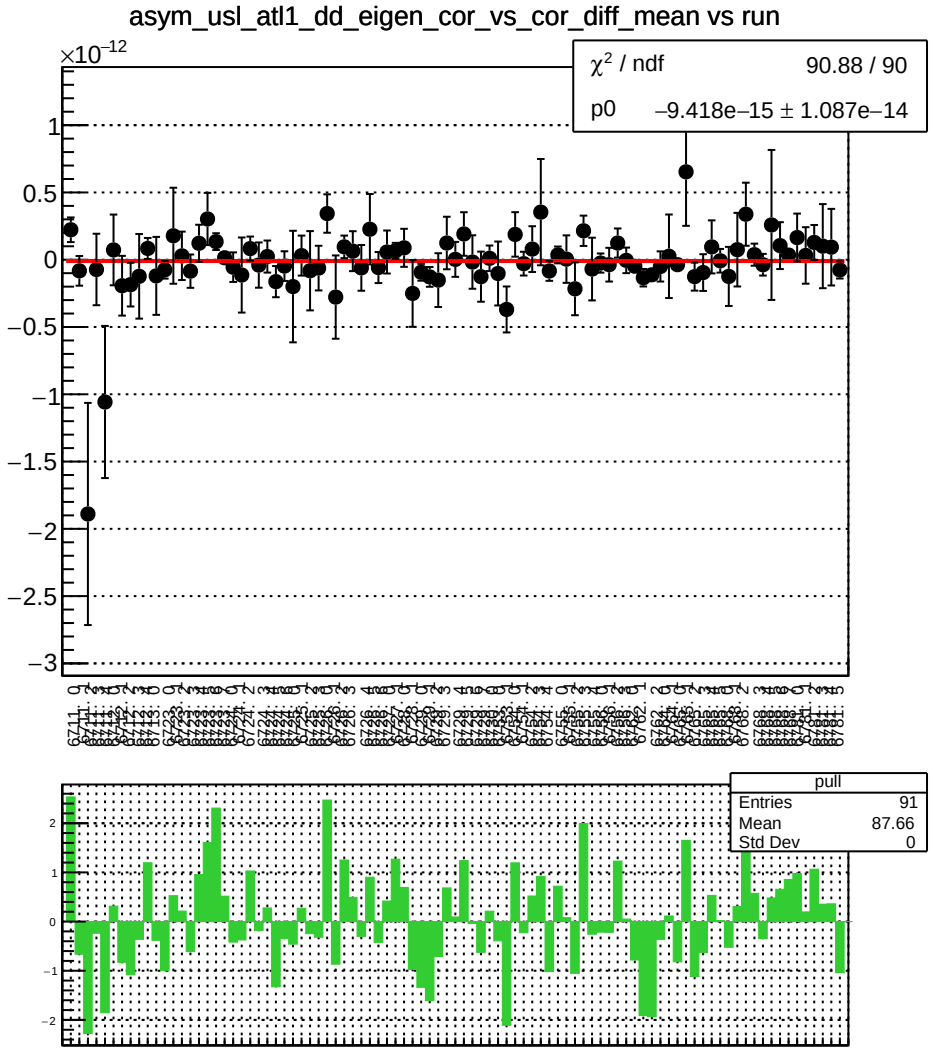

pull1D
Entries 91
Mean 0.008519
Std Dev 0.8366

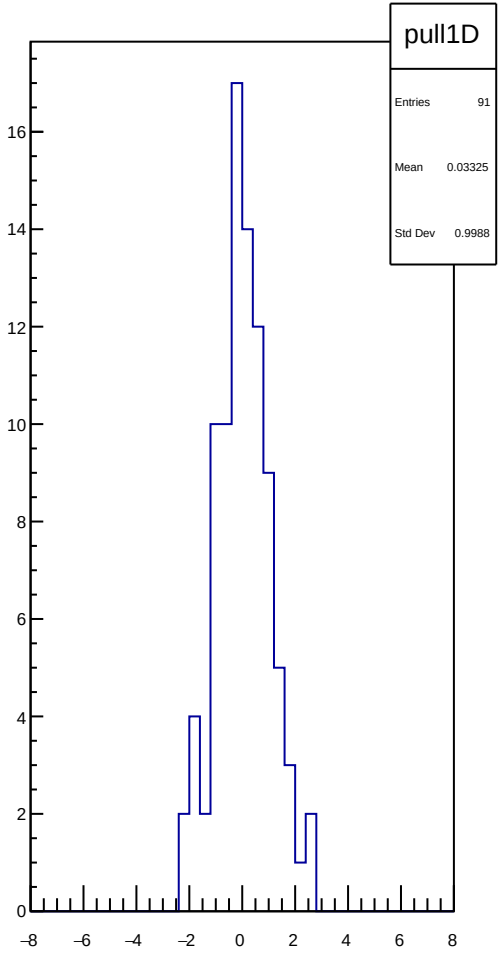

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.003e+05 / 90
p0 23.07 ± 0.01822
80
70
60
50
40
30
20
10

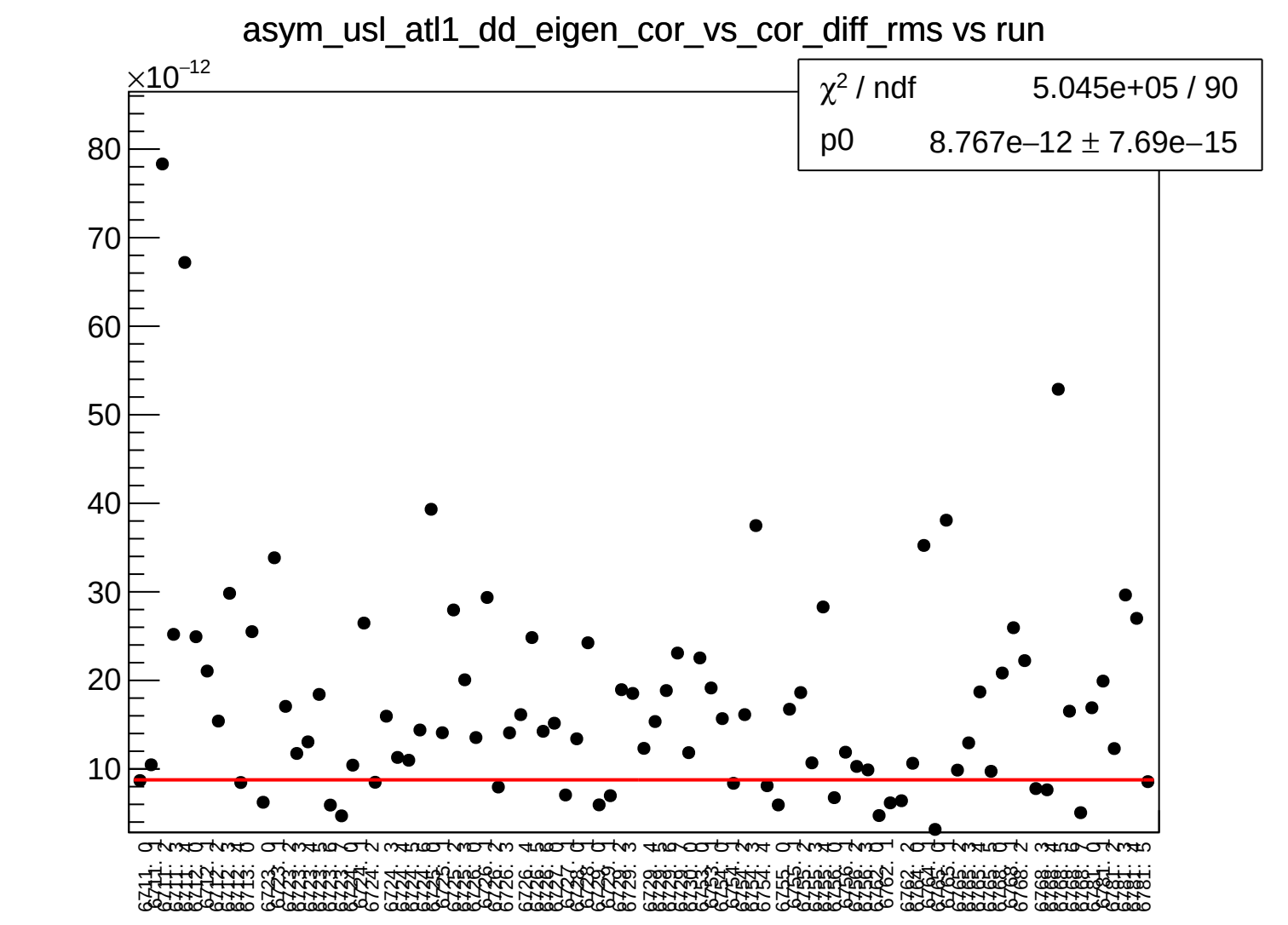

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.7 / 90
p0 0.01551 ± 0.02576
pull
Entries 91
Mean −589.1
Std Dev 0

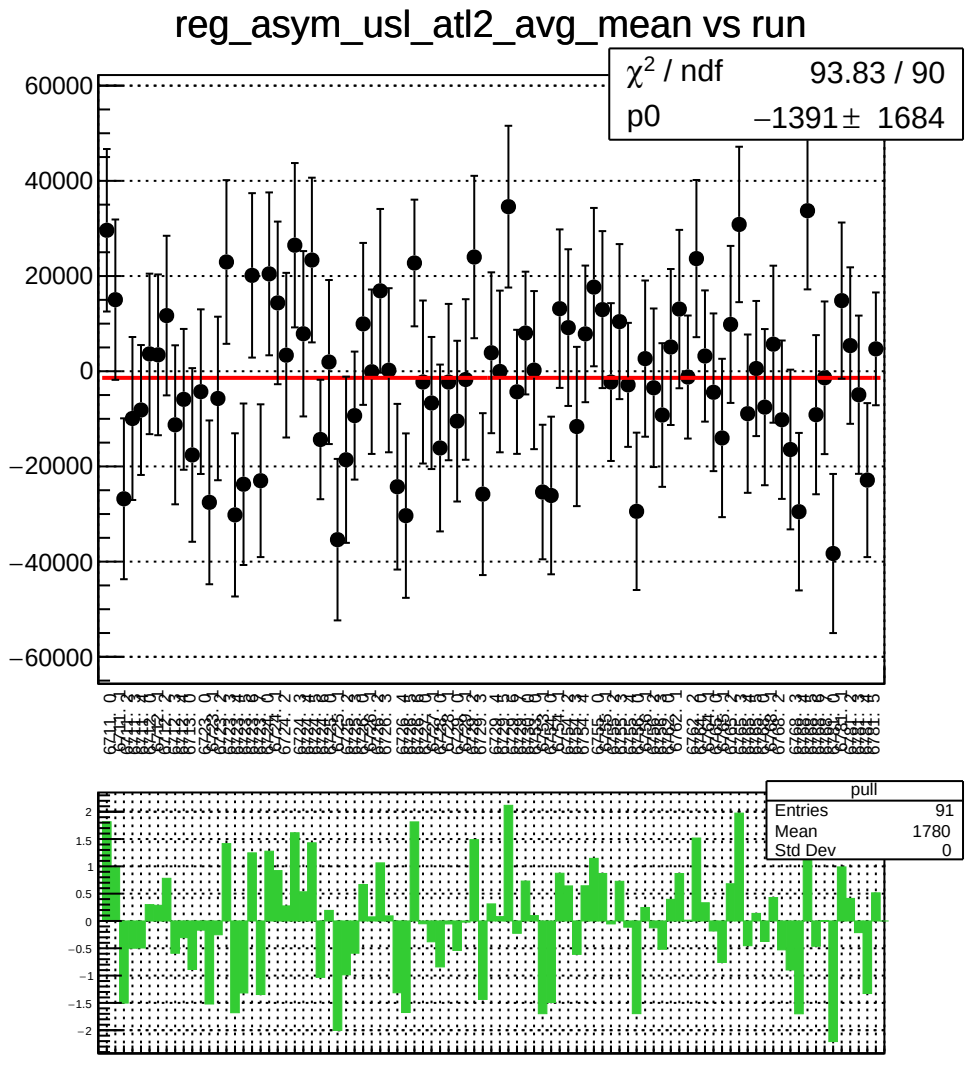

pull1D
Entries 91
Mean 0.008519
Std Dev 0.8366

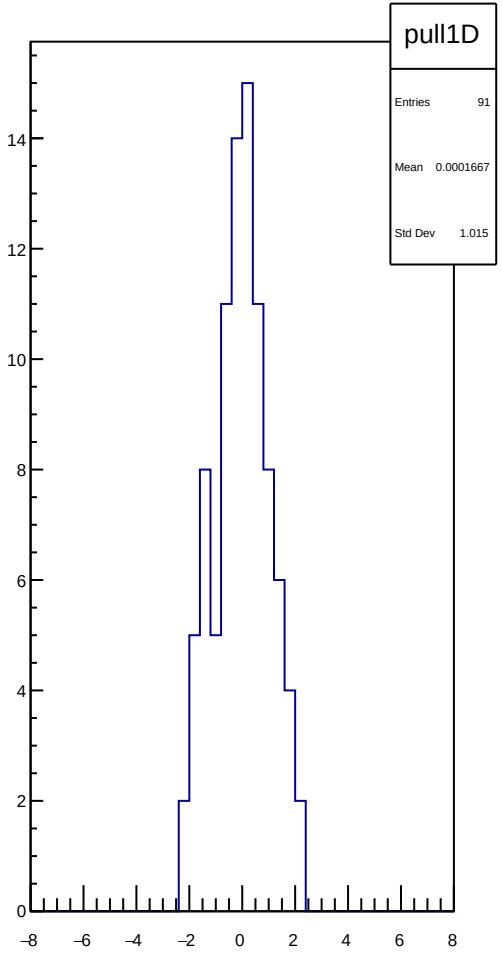

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.003e+05 / 90
p0 23.07 ± 0.01822
80
70
60
50
40
30
20
10

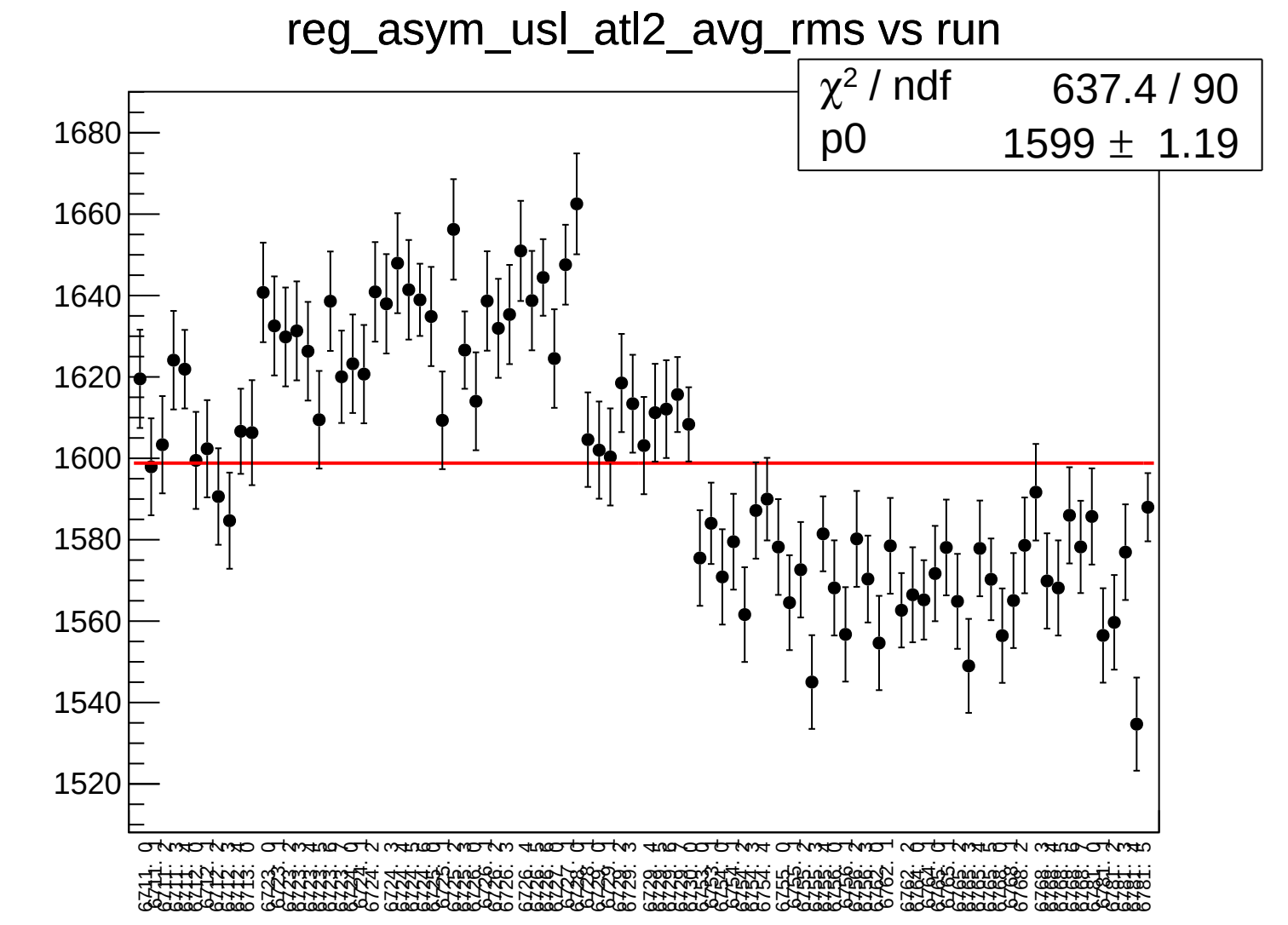

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.88 / 90
p0 −9.418e−15 ± 1.087e−14
pull
Entries 91
Mean 87.66
Std Dev 0

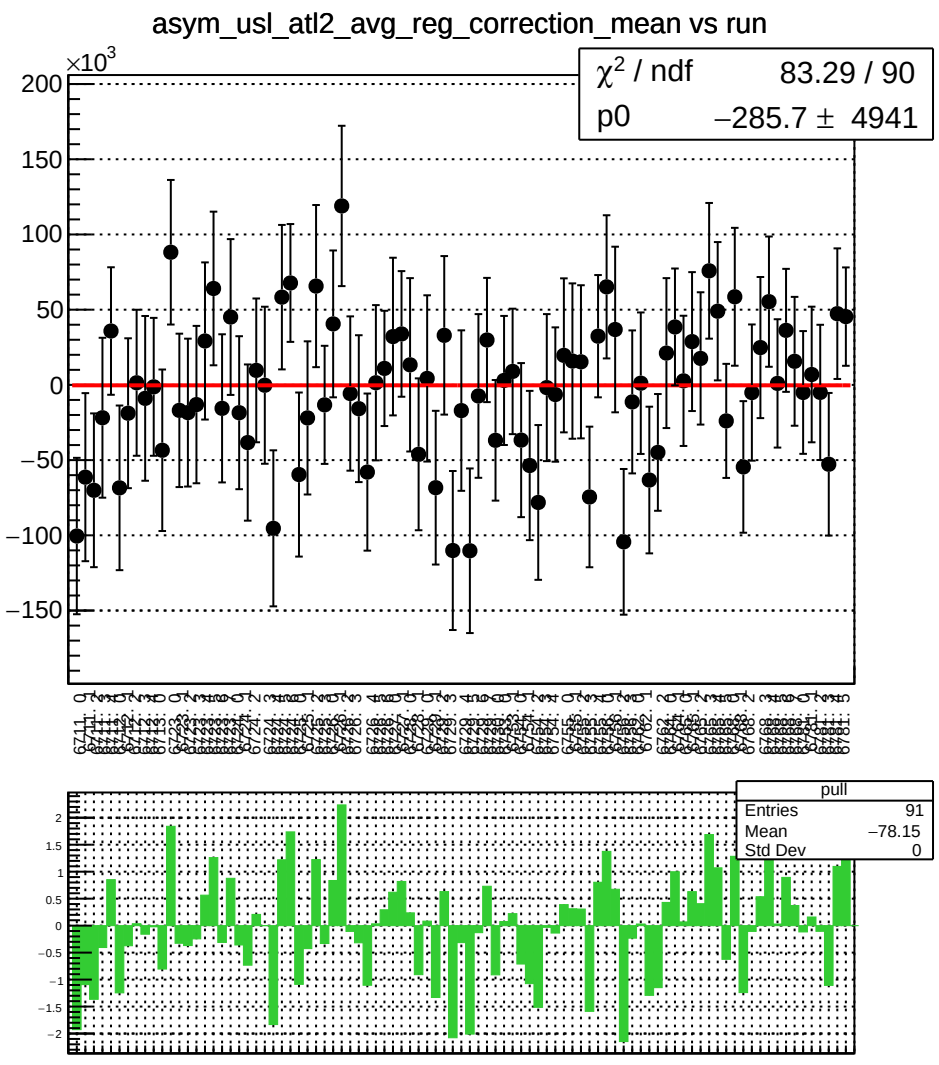

pull1D
Entries 91
Mean 0.03325
Std Dev 0.9988

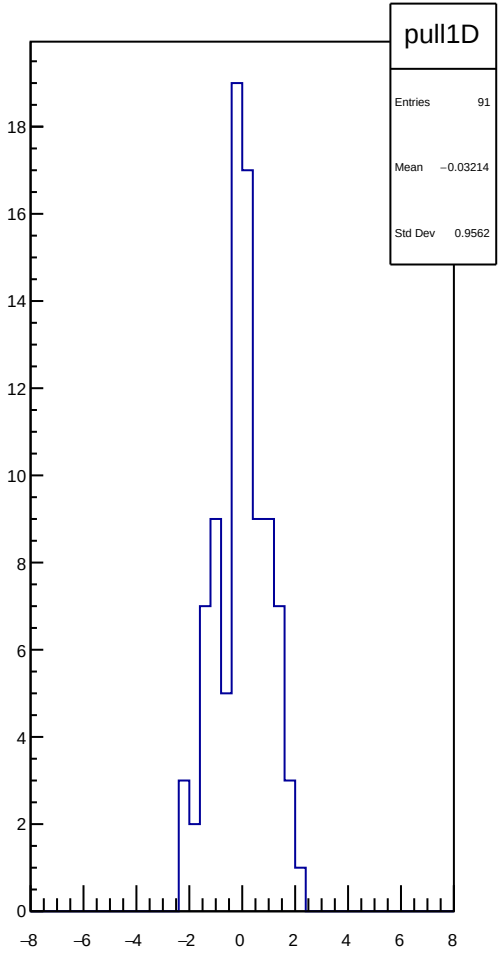

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.045e+05 / 90
p0 8.767e−12 ± 7.69e−15
80
70
60
50
40
30
20
10

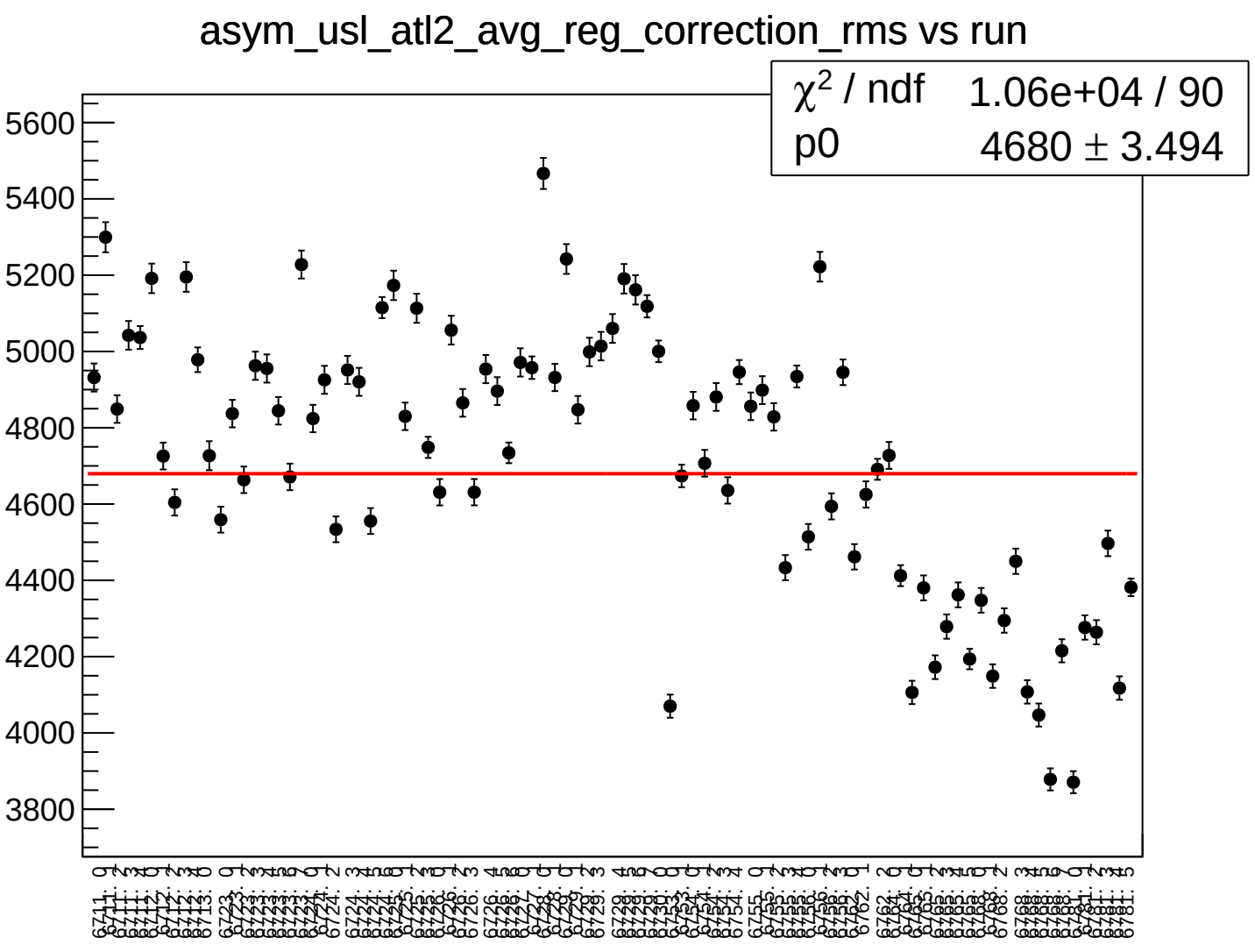

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 93.83 / 90
p0 −1391 ± 1684
pull
Entries 91
Mean 1780
Std Dev 0

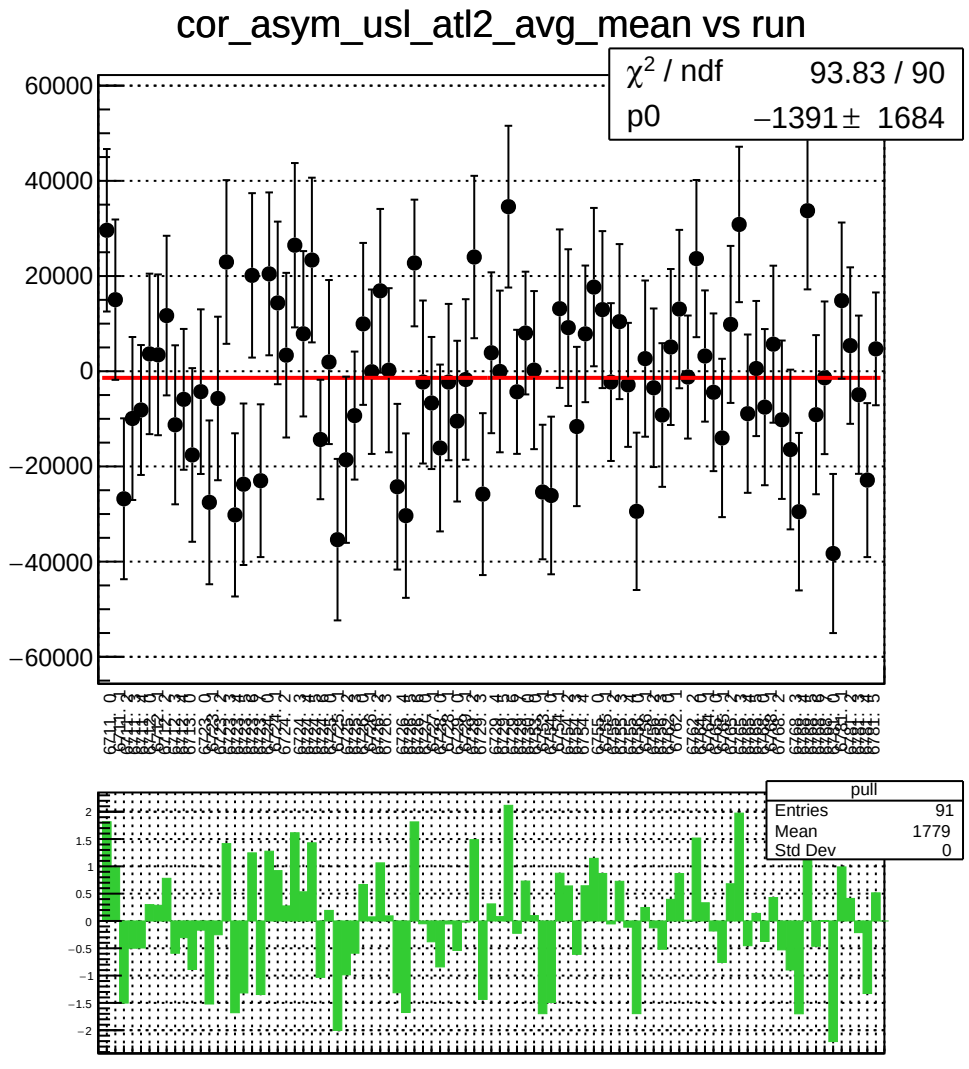

pull1D
Entries 91
Mean 0.0001667
Std Dev 1.015

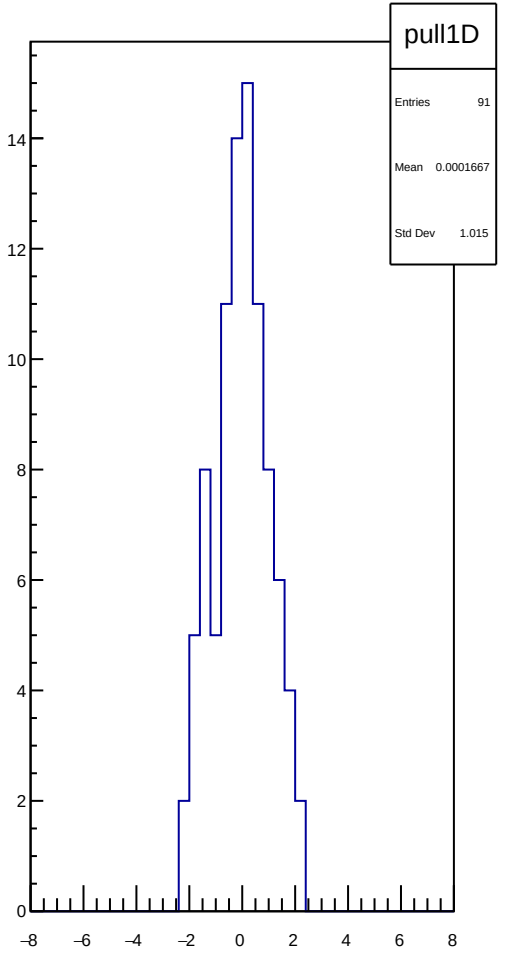

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 637.4 / 90
p0 1599 ± 1.19
1680
1660
1640
1620
1600
1580
1560
1540
1520

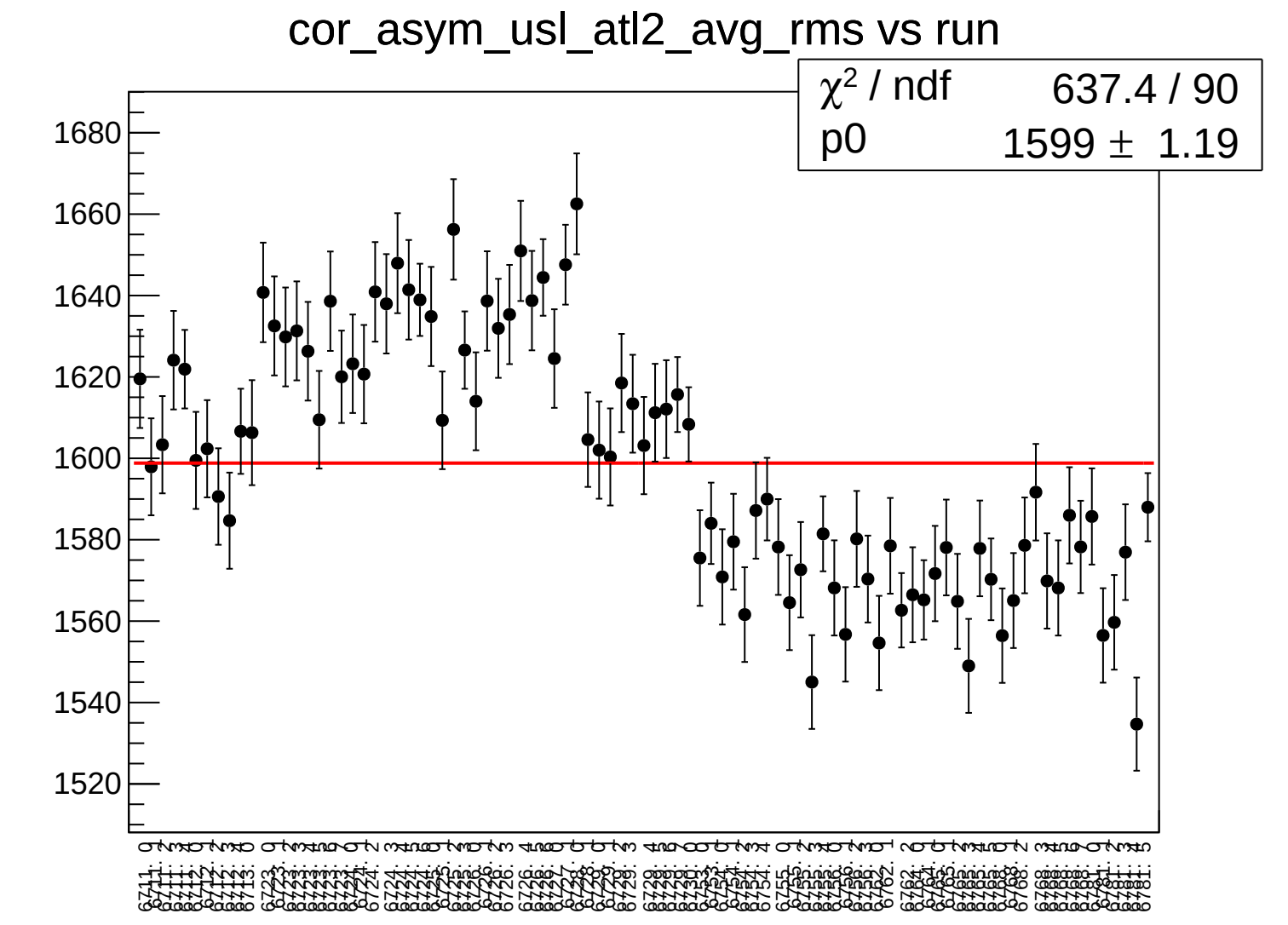

asym_usl_atl2_avg_reg_correction_mean vs run
χ² / ndf 83.29 / 90
p0 −285.7 ± 4941
pull
Entries 91
Mean −78.15
Std Dev 0

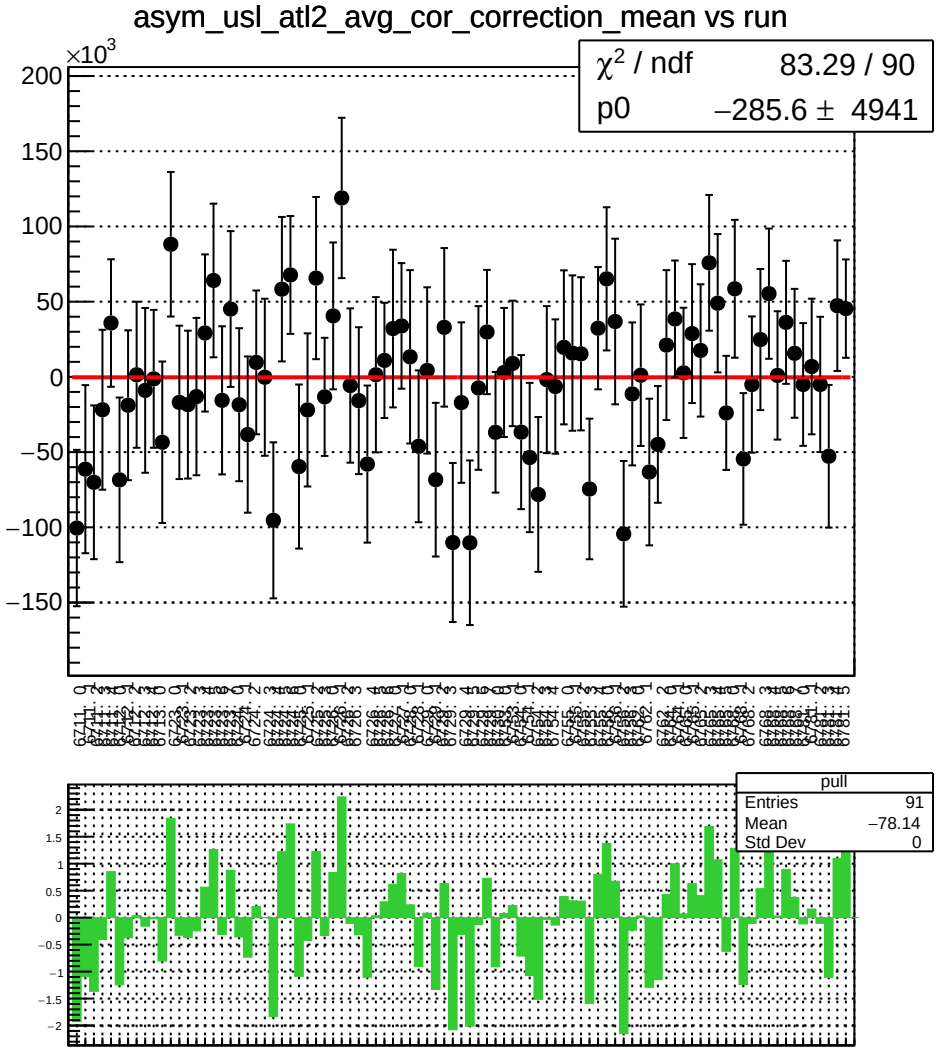

pull1D
Entries 91
Mean −0.03214
Std Dev 0.9562

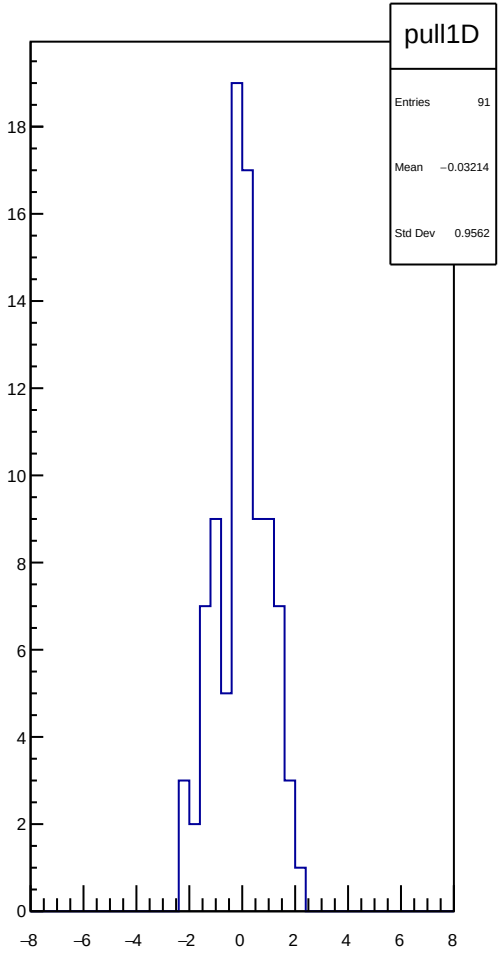

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 1.06e+04 / 90
p0 4680 ± 3.494
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

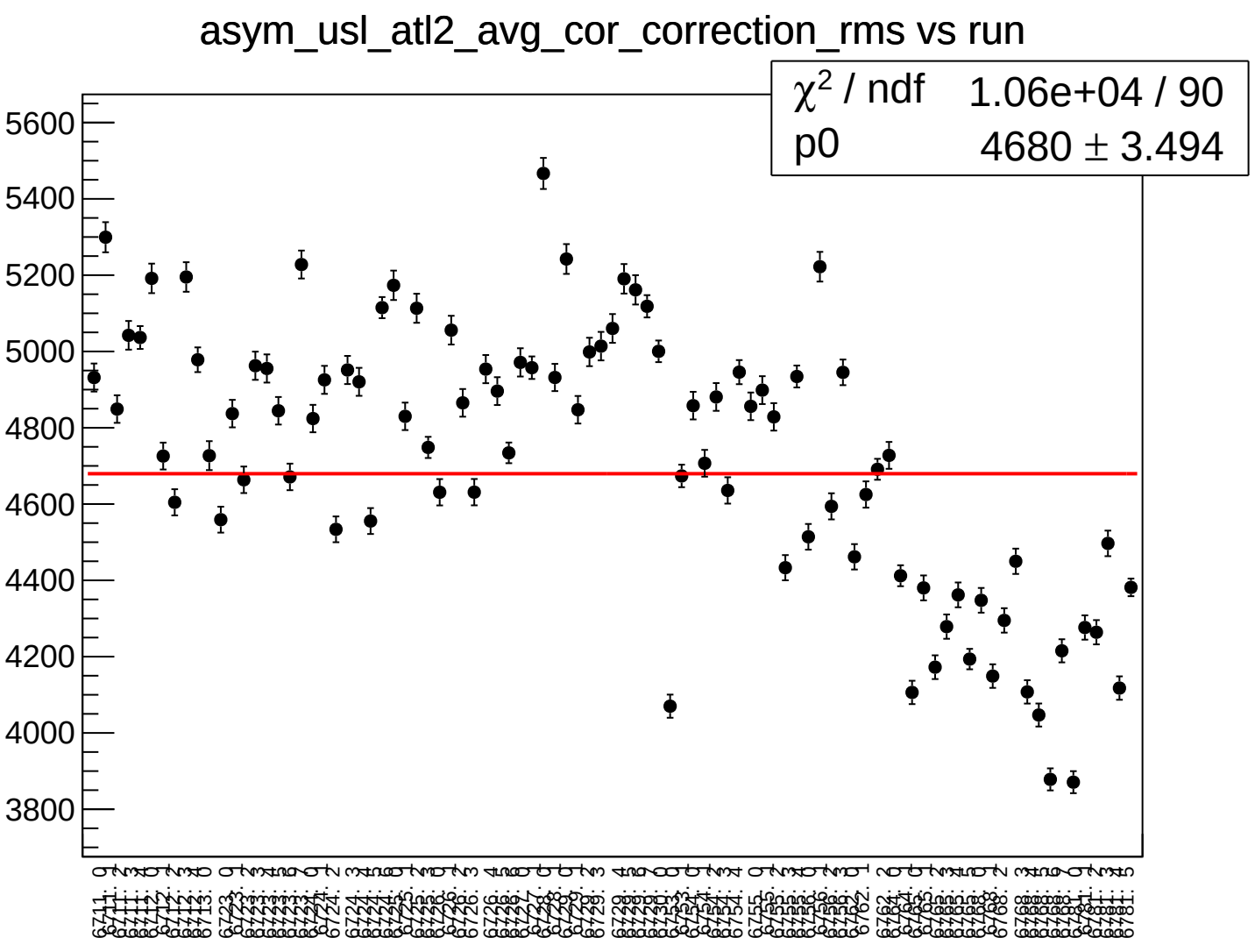

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 93.83 / 90
p0 −1391 ± 1684
pull
Entries 91
Mean 1779
Std Dev 0

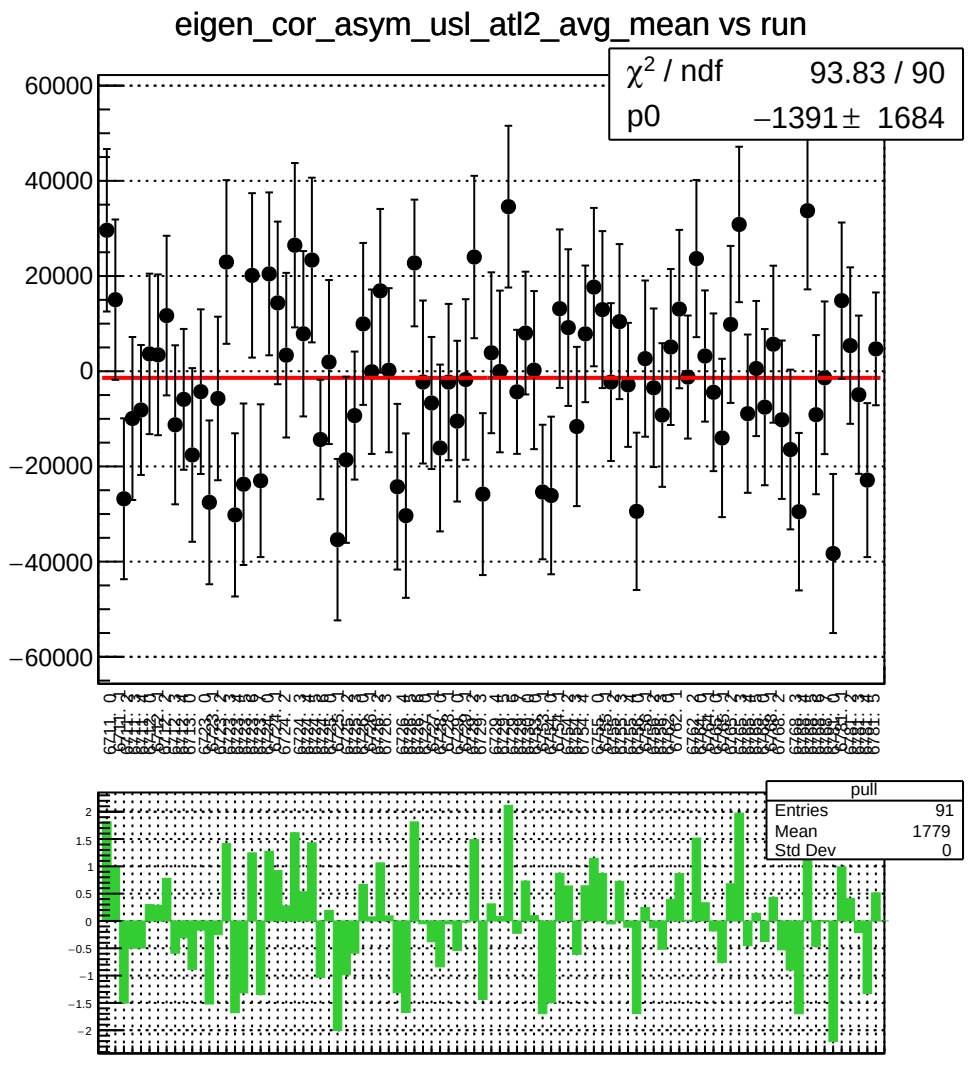

pull1D
Entries 91
Mean 0.0001667
Std Dev 1.015

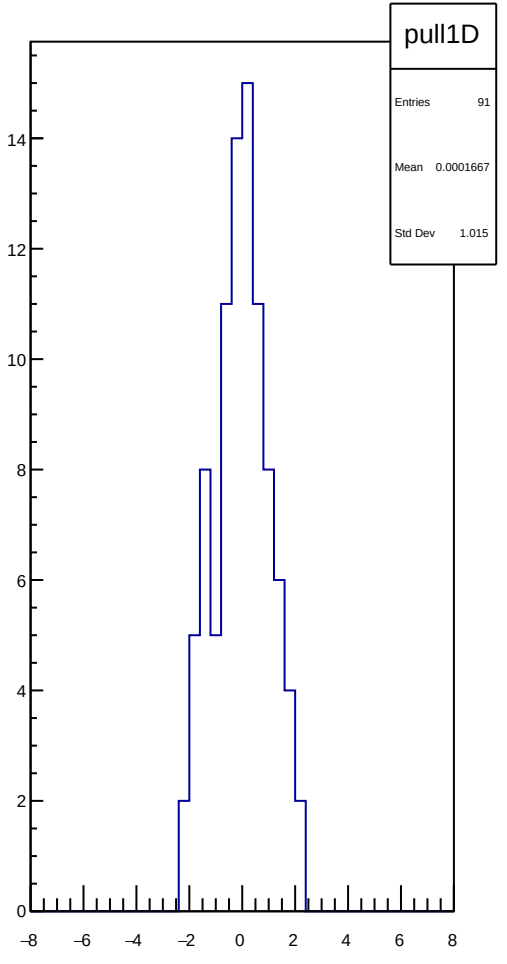

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 637.4 / 90
p0 1599 ± 1.19
1680
1660
1640
1620
1600
1580
1560
1540
1520

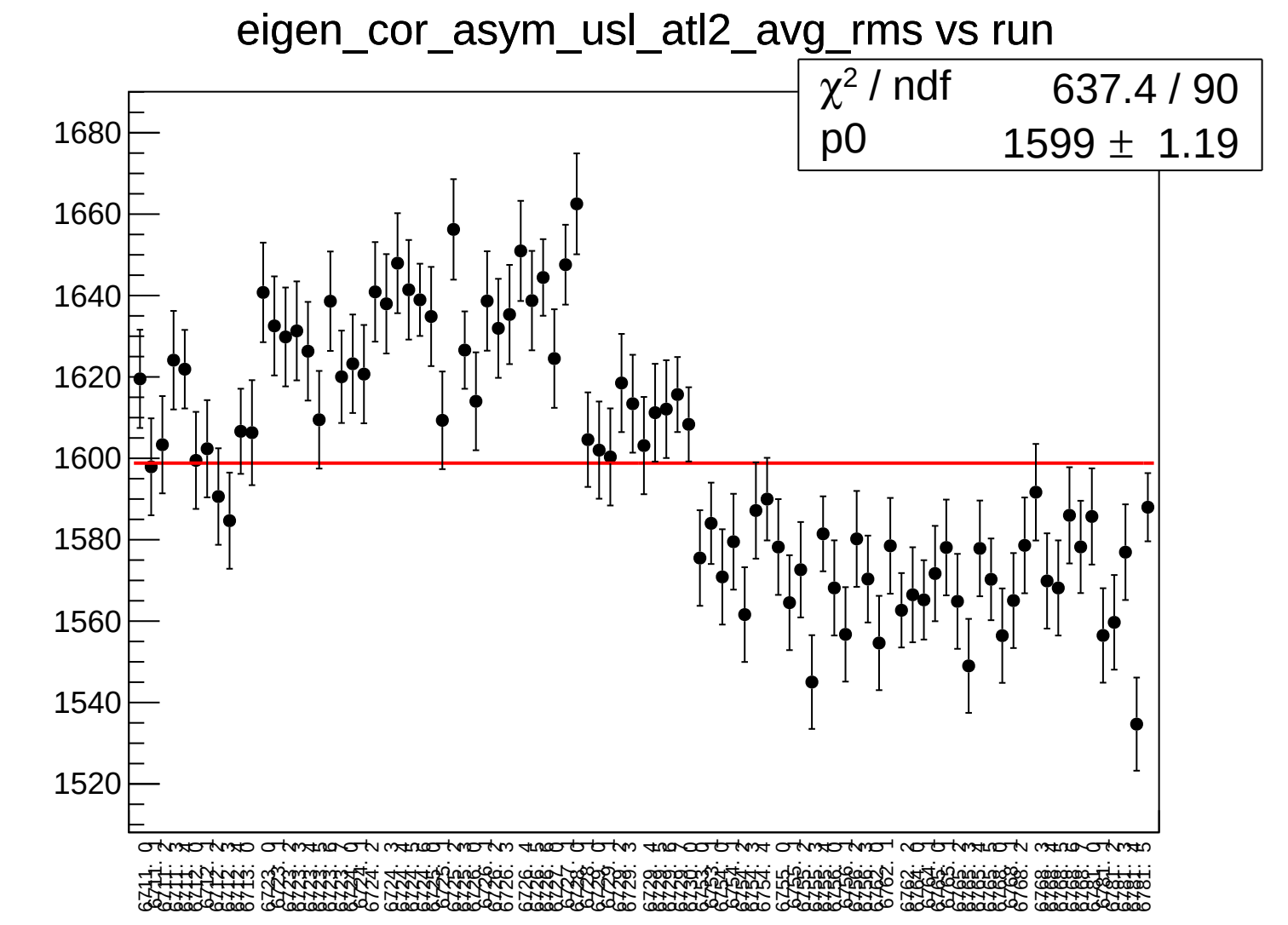

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 83.29 / 90
p0 −285.6 ± 4941
200
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −78.14
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

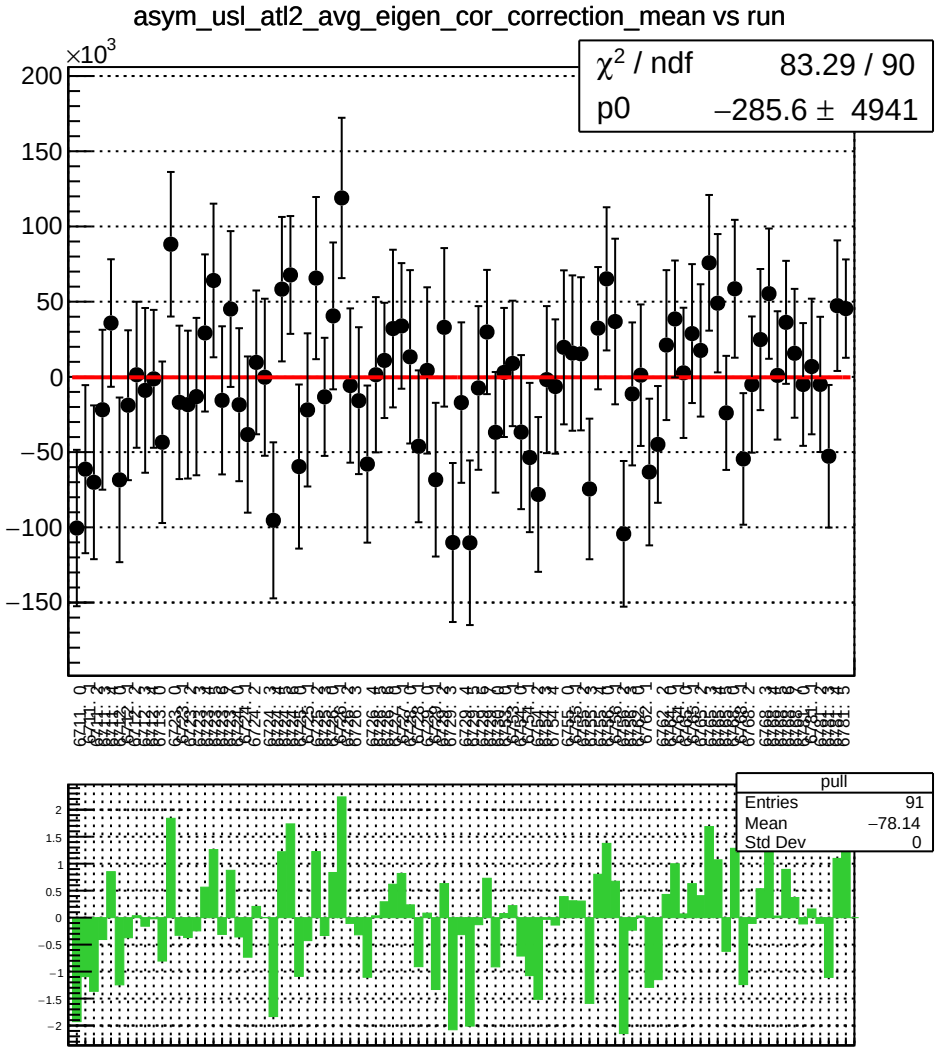

pull1D
Entries 91
Mean −0.03214
Std Dev 0.9562
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

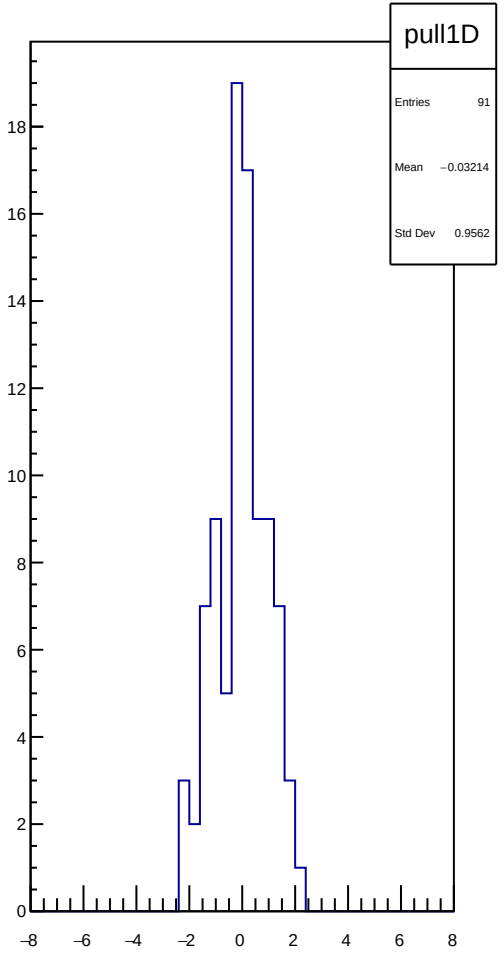

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 1.06e+04 / 90
p0 4680 ± 3.494
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

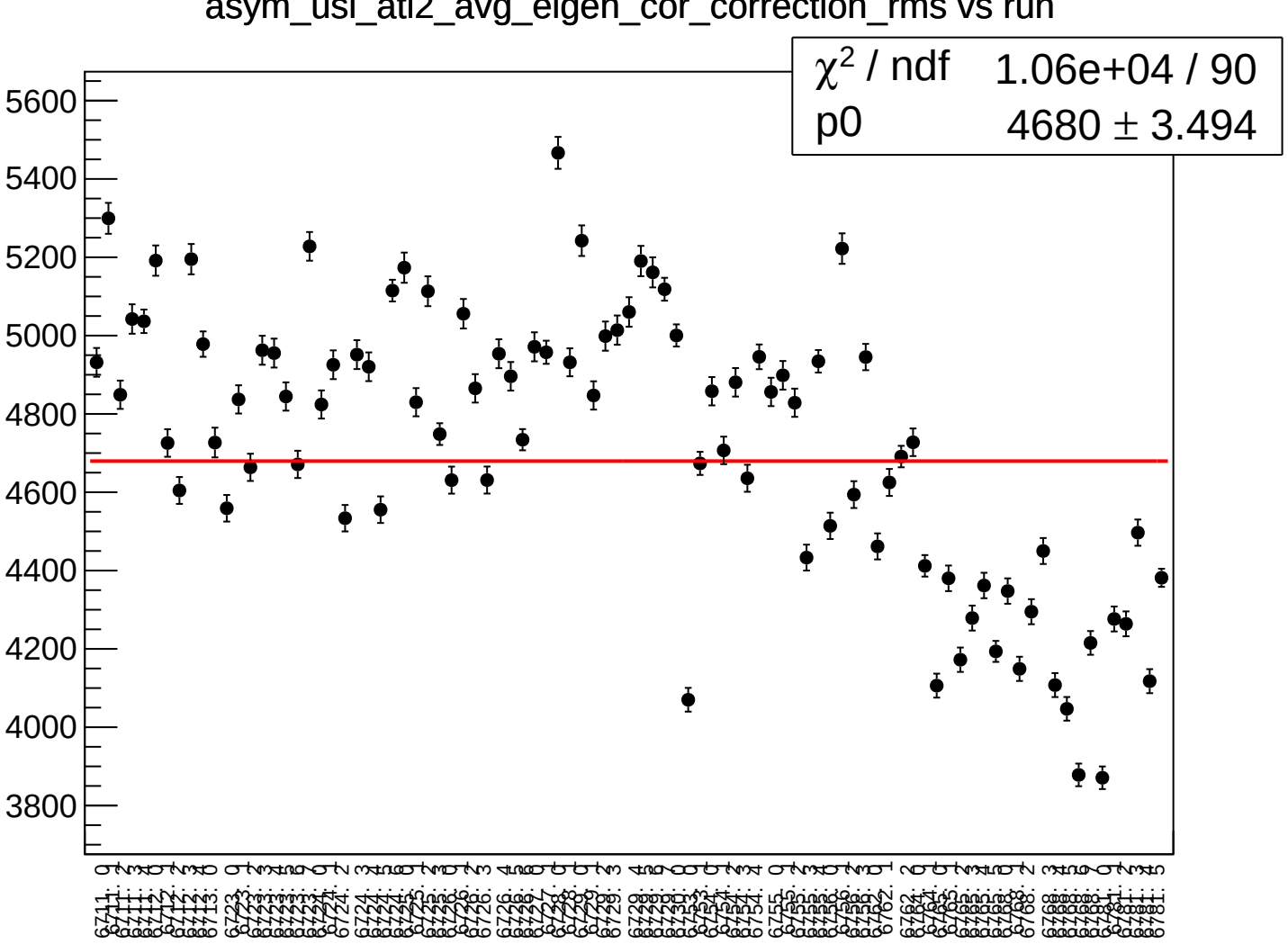

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 93.83 / 90
p0 −1391 ± 1684
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 1779
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

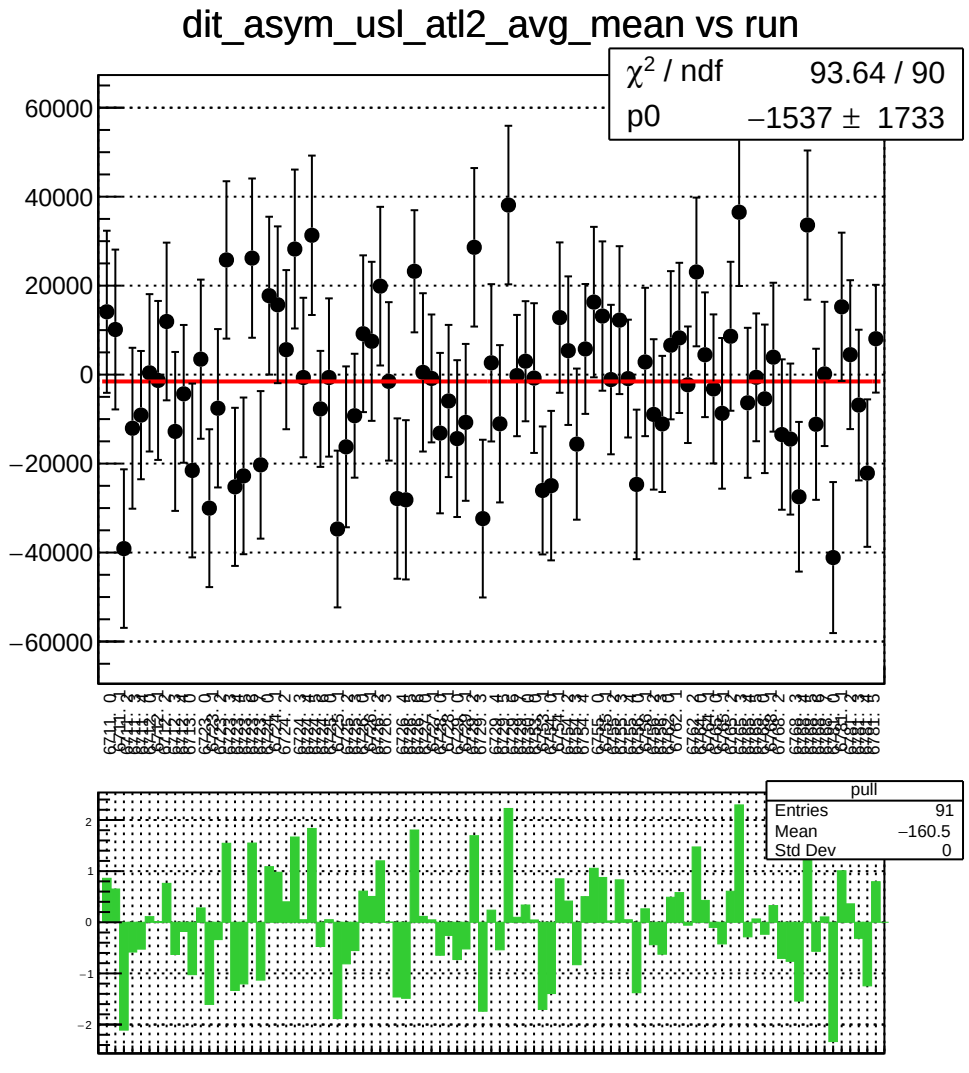

pull1D
Entries 91
Mean 0.0001667
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

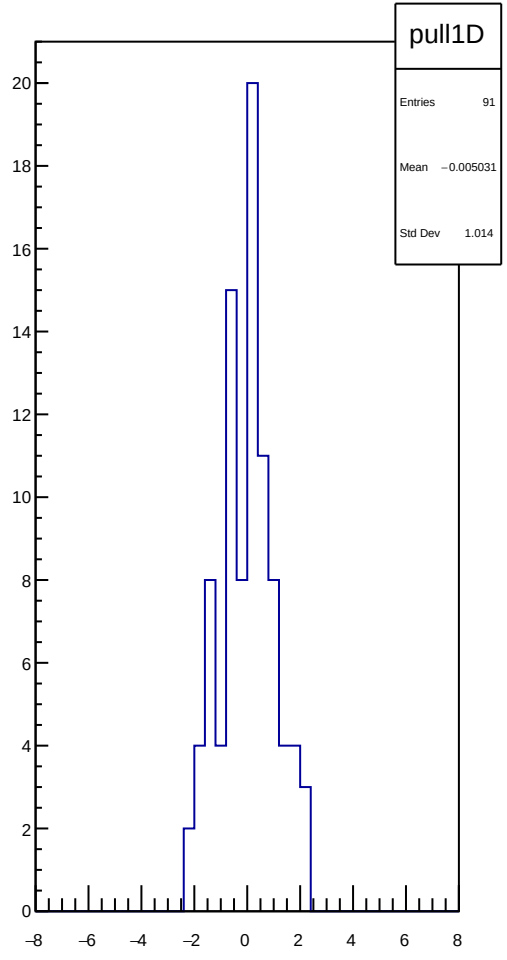

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 637.4 / 90
p0 1599 ± 1.19
1680
1660
1640
1620
1600
1580
1560
1540
1520

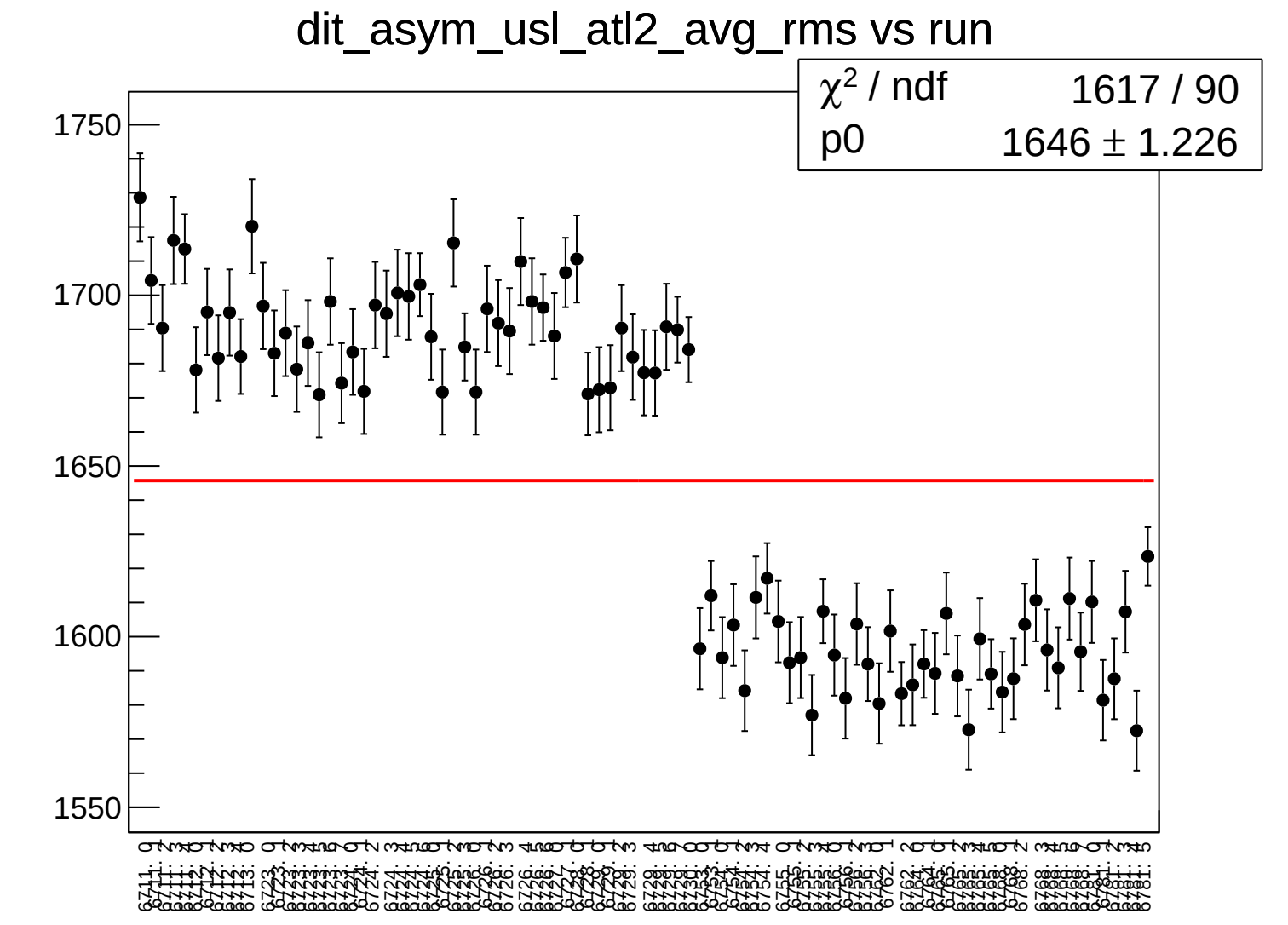

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.29 / 90
p0 −285.6 ± 4941
pull
Entries 91
Mean −78.14
Std Dev 0

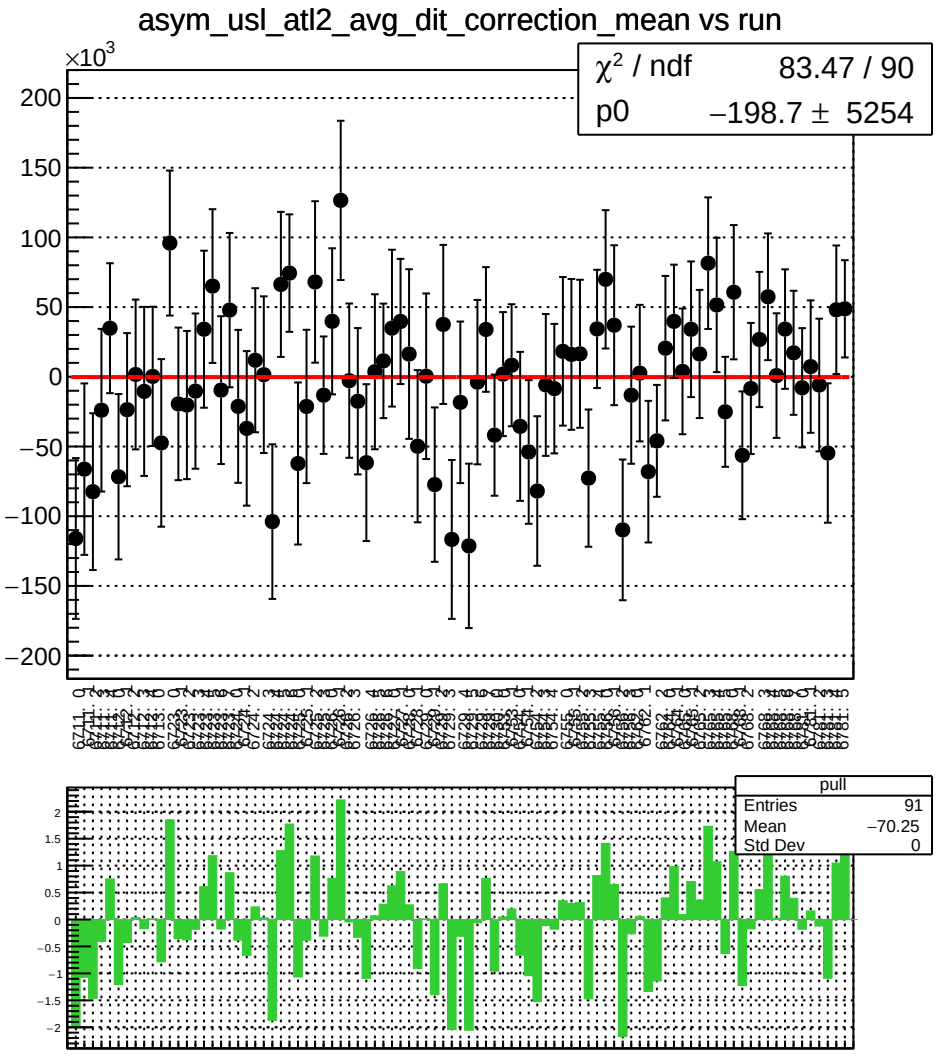

pull1D
Entries 91
Mean −0.03214
Std Dev 0.9562

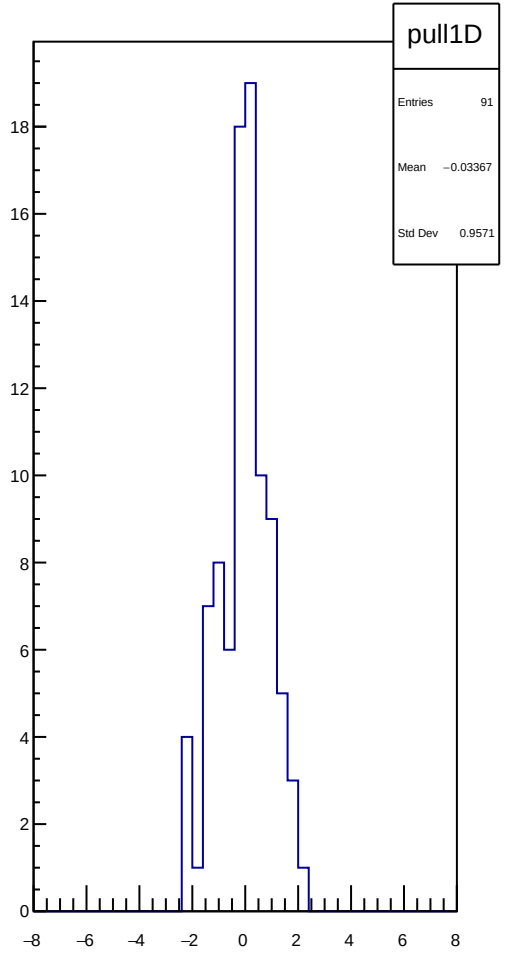

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.06e+04 / 90
p0 4680 ± 3.494
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

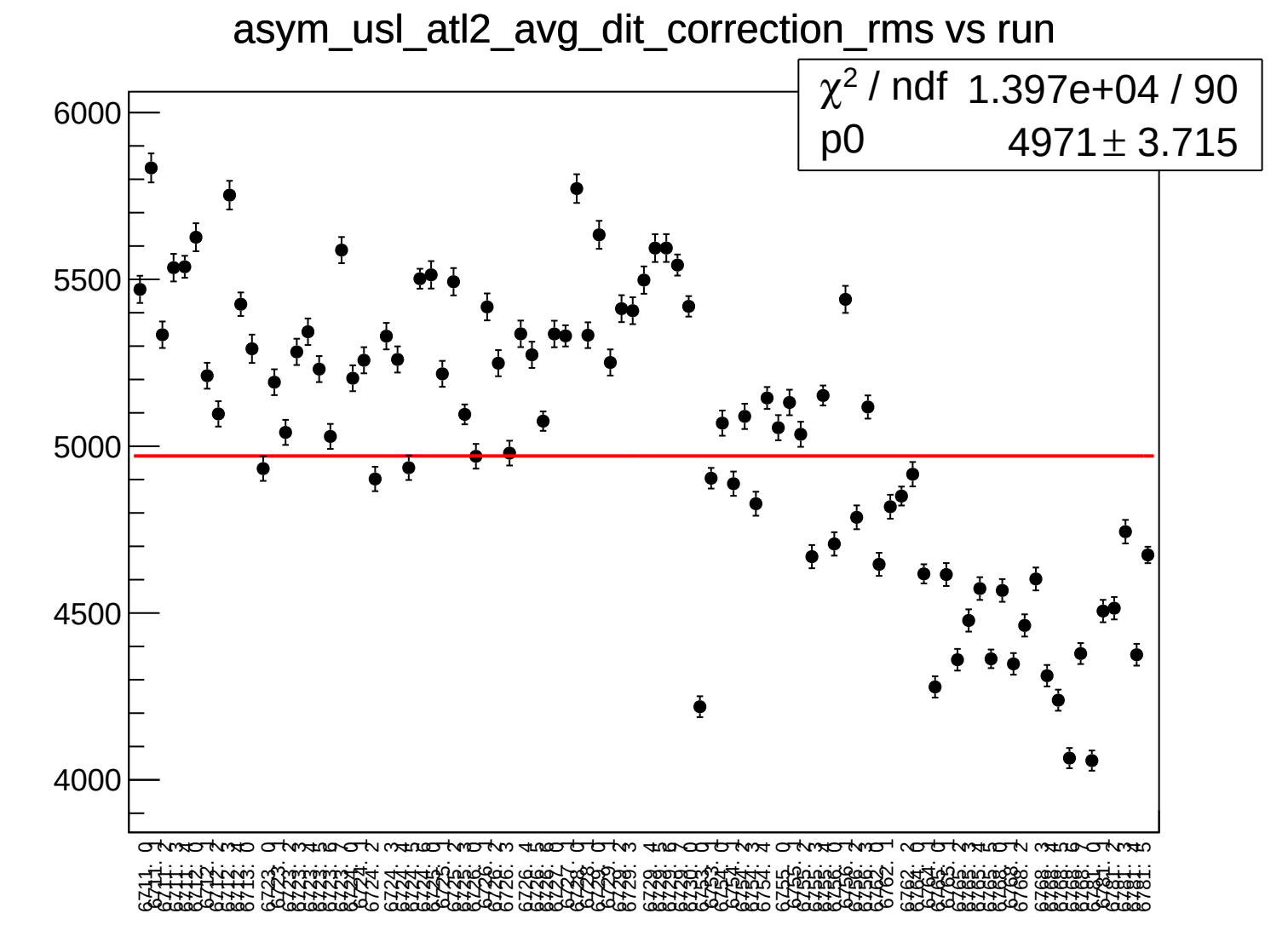

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 93.64 / 90
p0 −1537 ± 1733
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −160.5
Std Dev 0
2
1
0
−1
−2

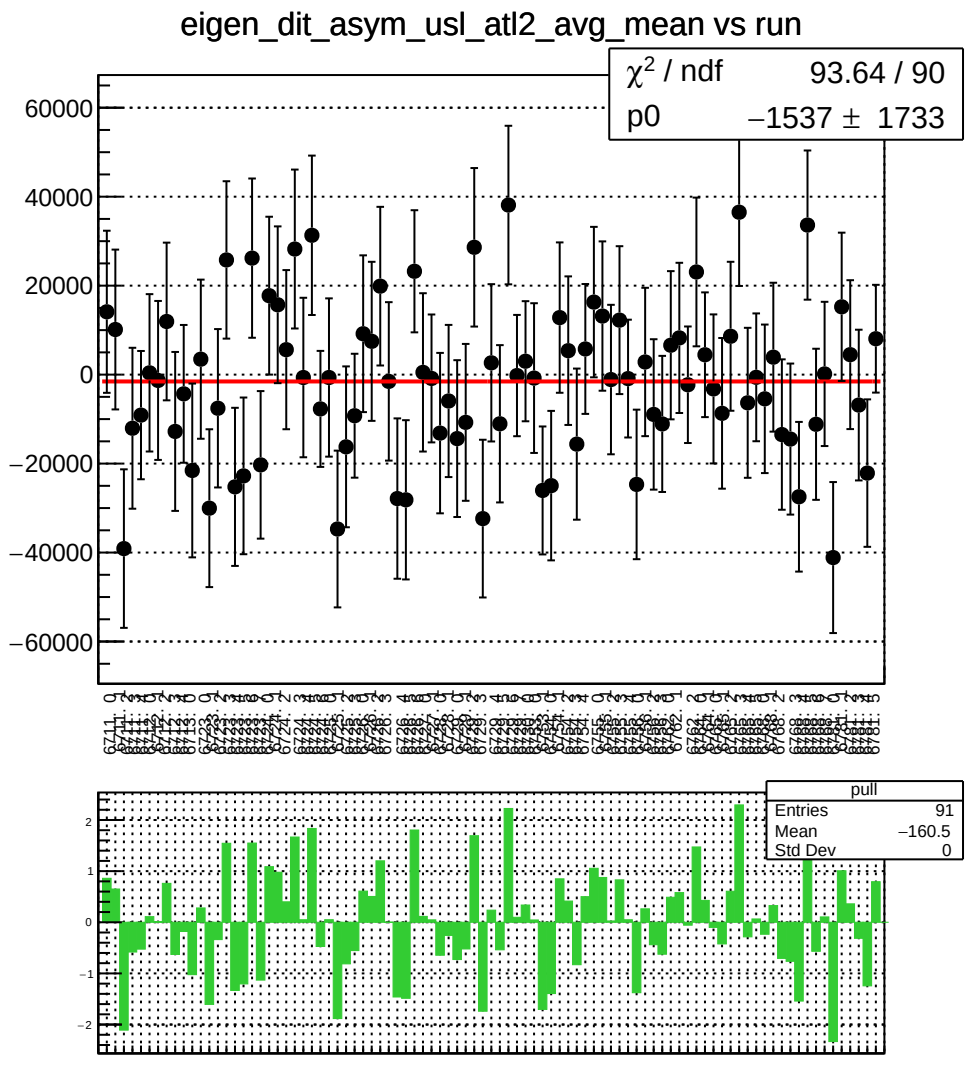

pull1D
Entries 91
Mean −0.005031
Std Dev 1.014
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

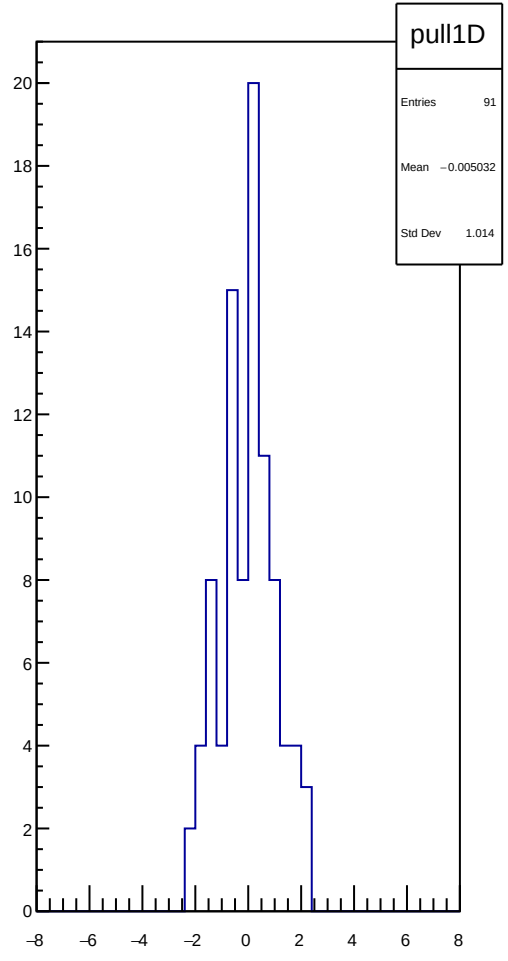

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 1617 / 90
p0 1646 ± 1.226
1750
1700
1650
1600
1550

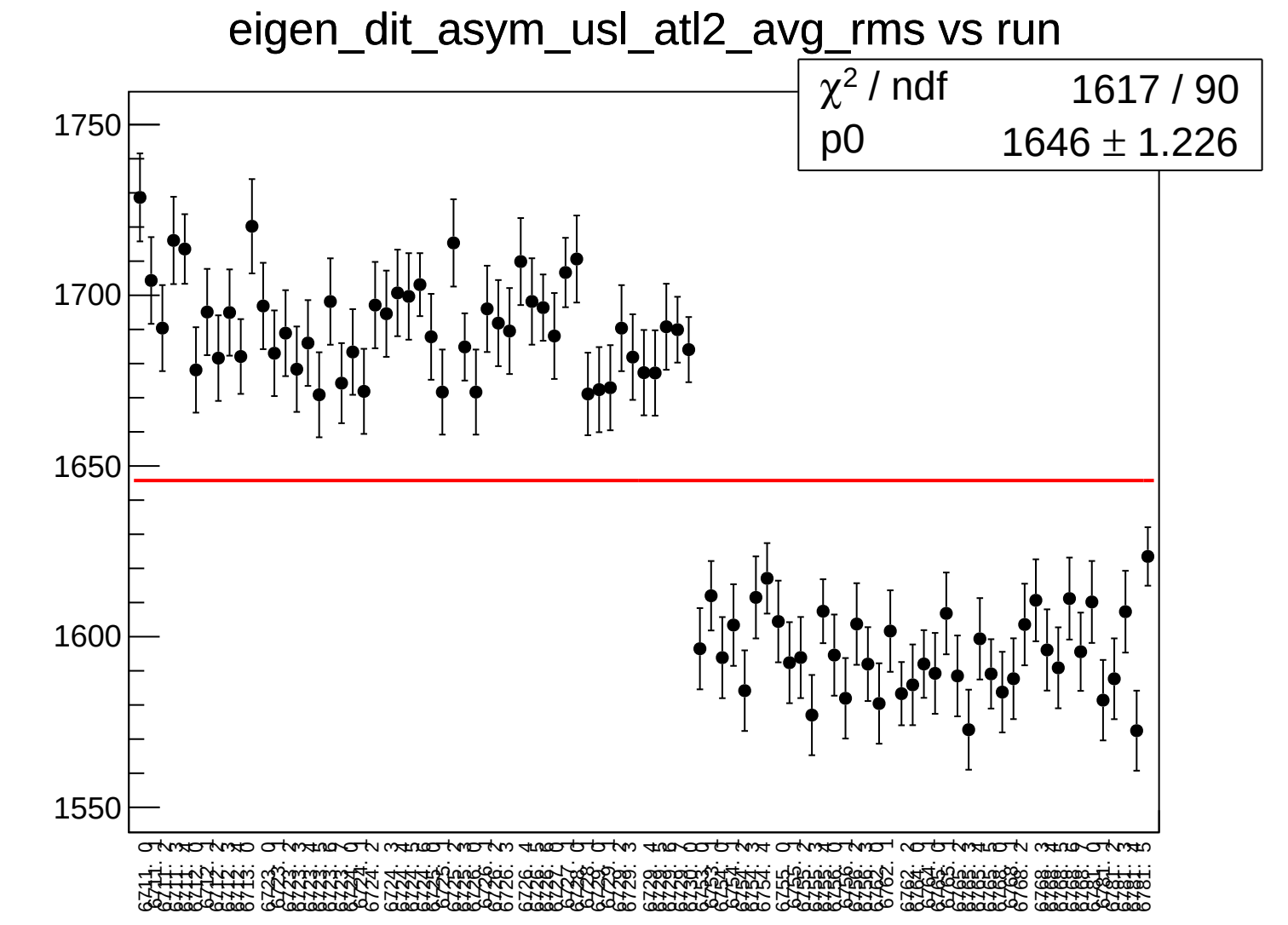

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 83.47 / 90
p0 −198.7 ± 5254
pull
Entries 91
Mean −70.25
Std Dev 0

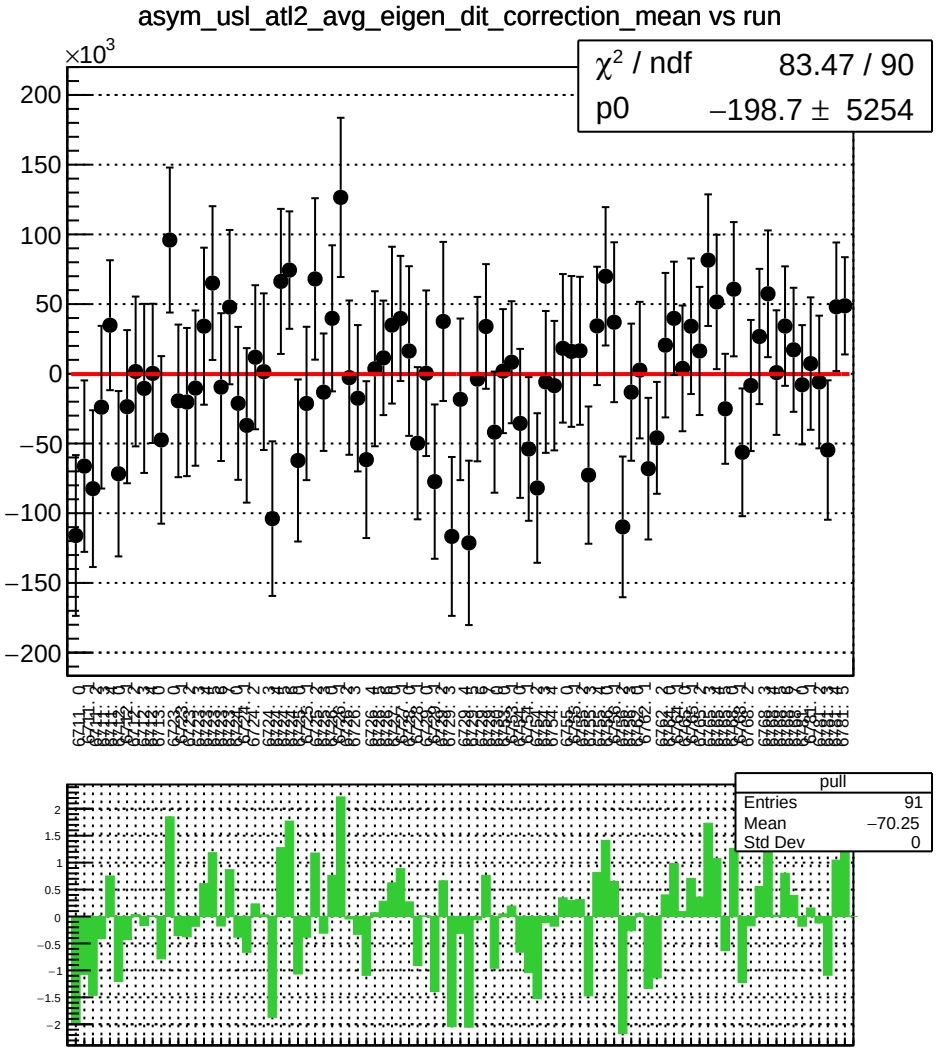

pull1D
Entries 91
Mean −0.03367
Std Dev 0.9571

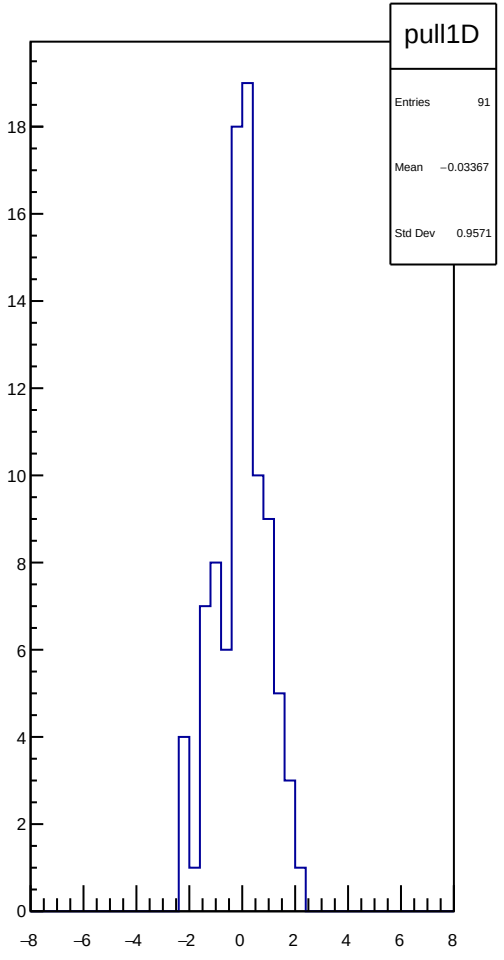

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 1.397e+04 / 90
p0 4971 ± 3.715
6000
5500
5000
4500
4000

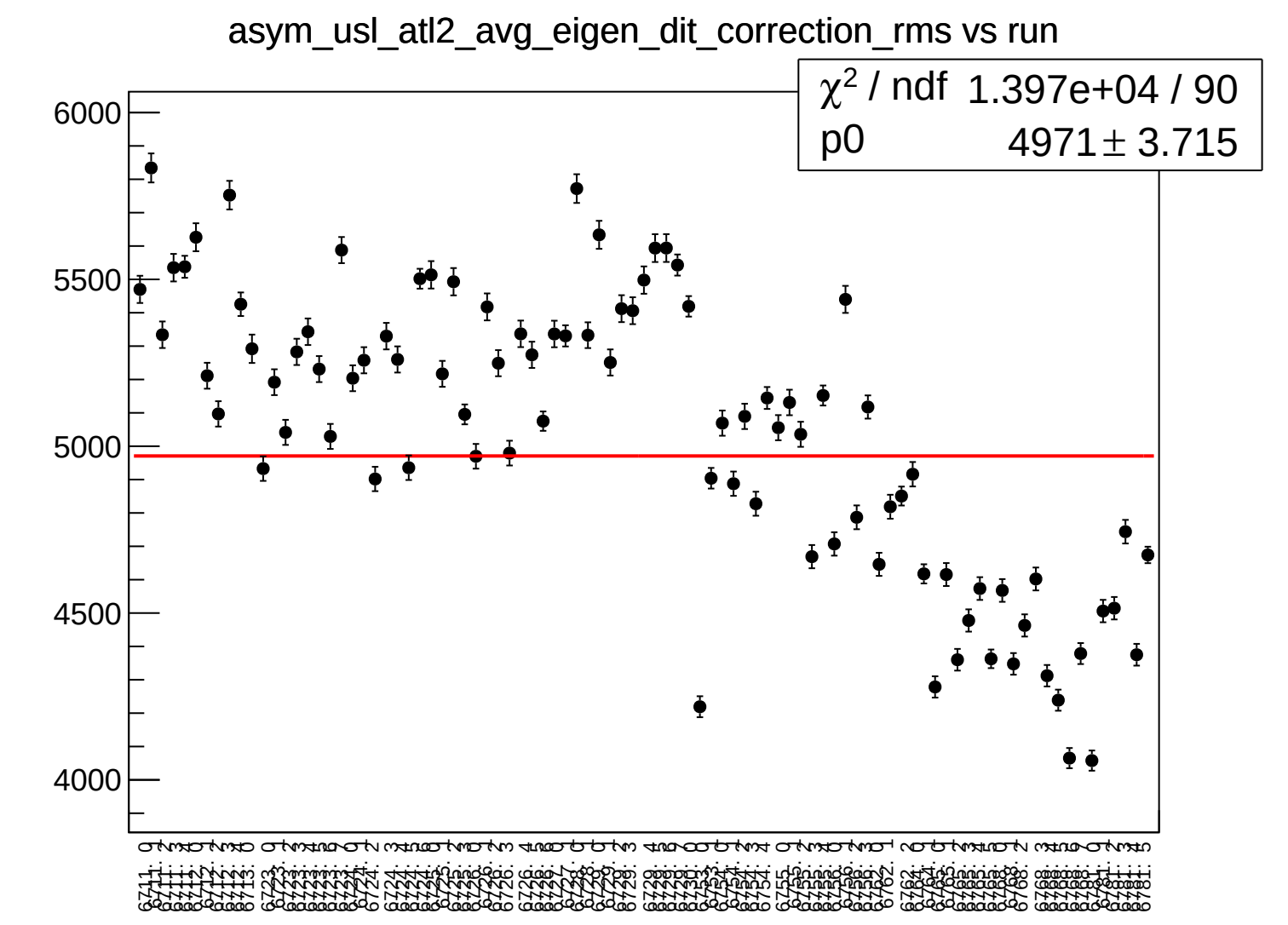

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 93.64 / 90
p0 −1537 ± 1733
pull
Entries 91
Mean −160.5
Std Dev 0

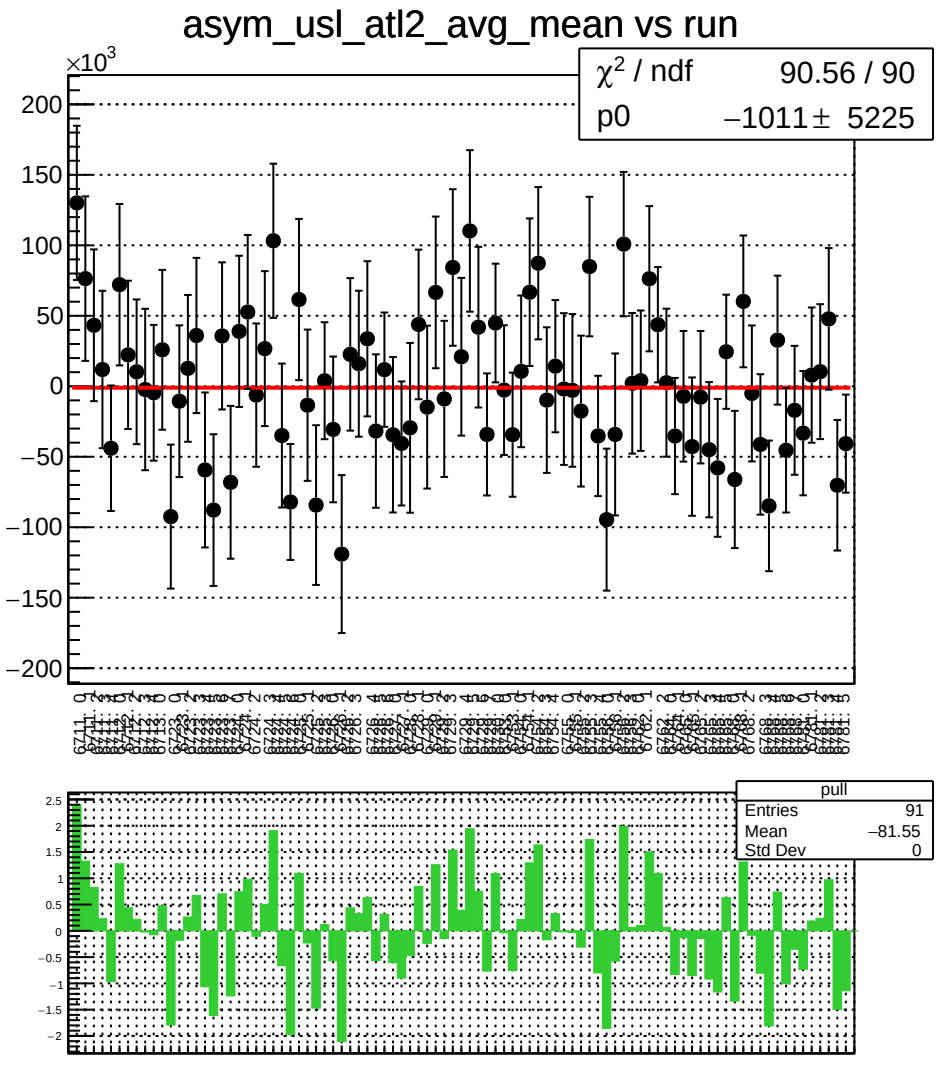

pull1D
Entries 91
Mean −0.005032
Std Dev 1.014

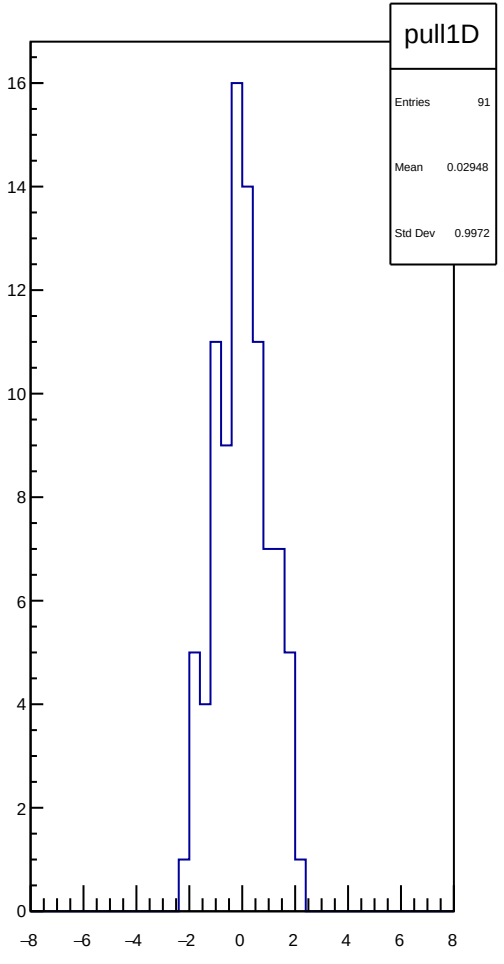

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 1617 / 90
p0 1646 ± 1.226
1750
1700
1650
1600
1550

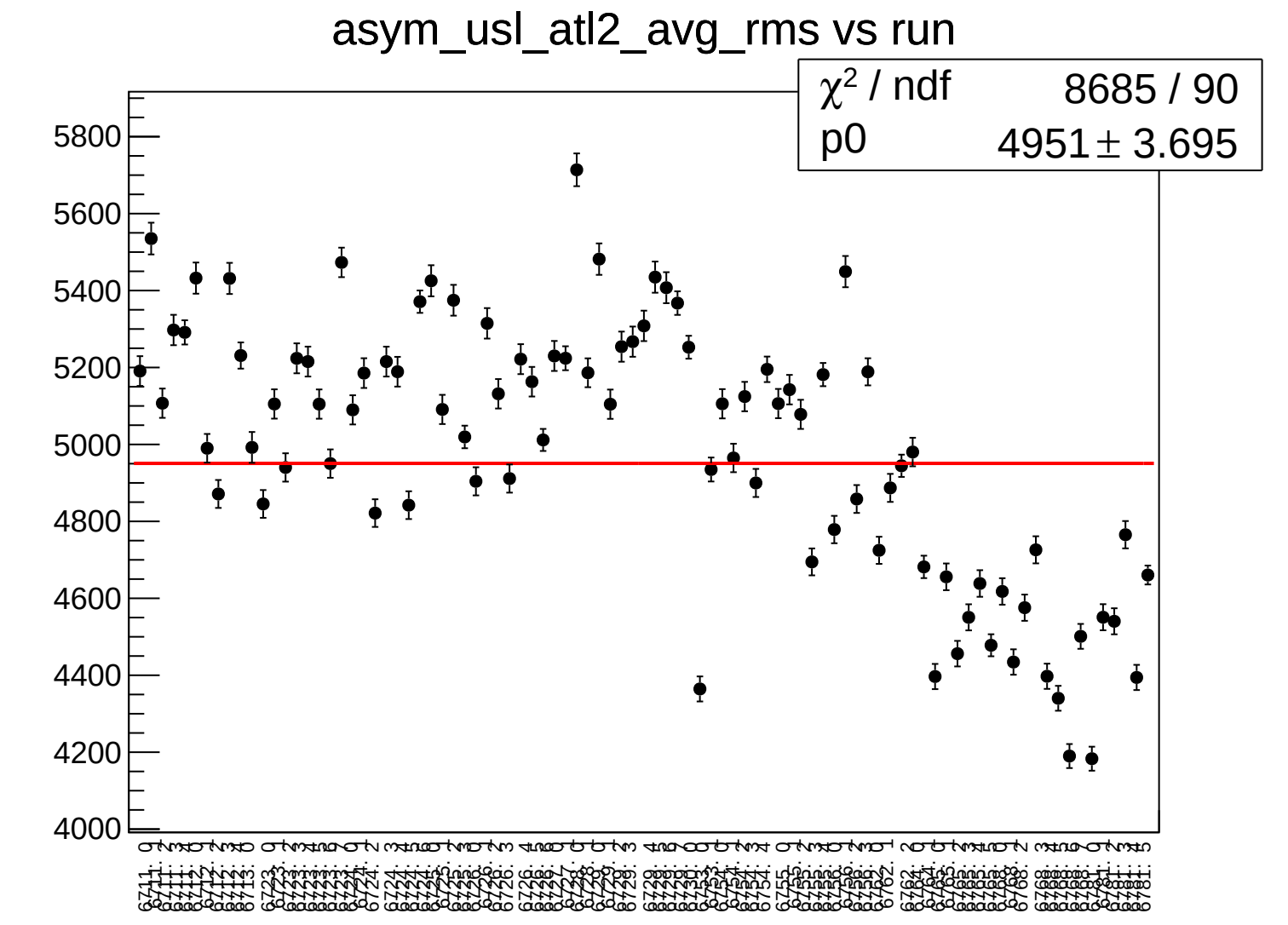

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.47 / 90
p0 −198.7 ± 5254
pull
Entries 91
Mean −70.25
Std Dev 0

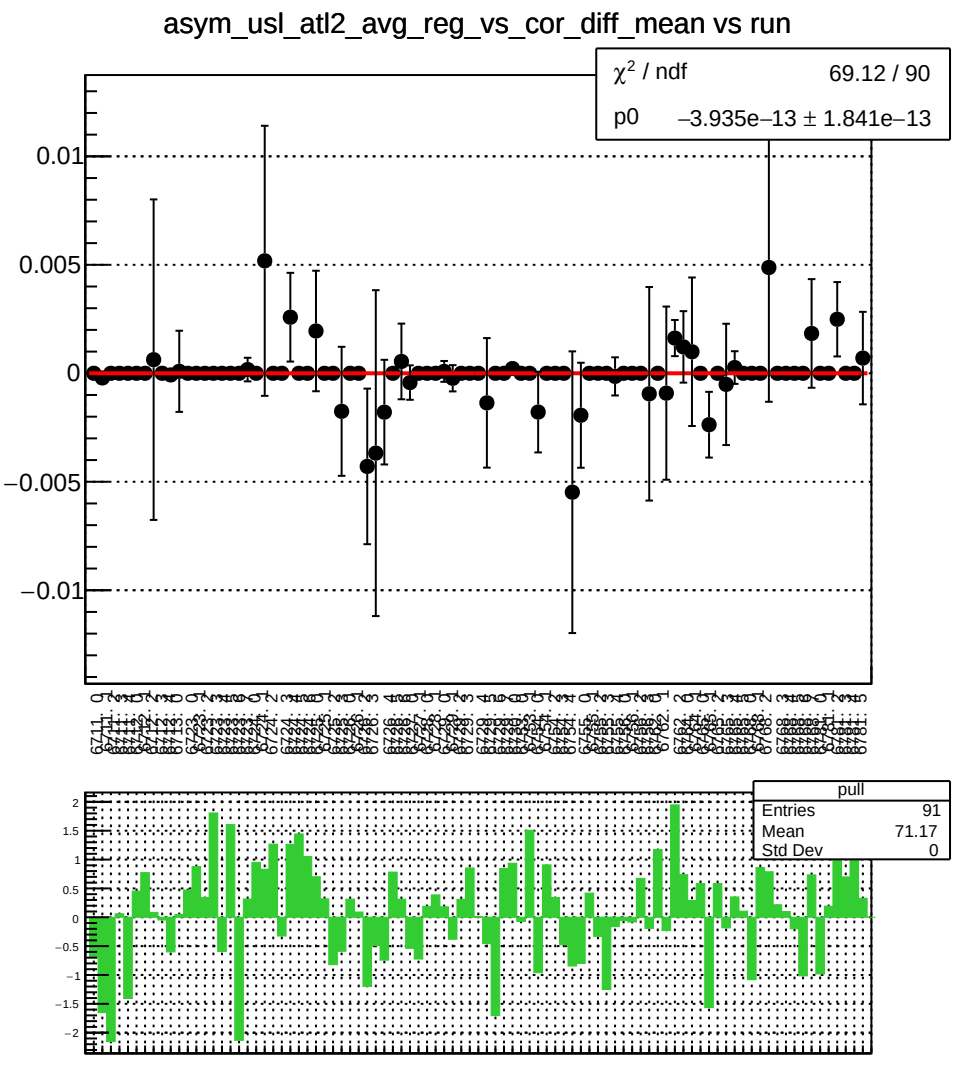

pull1D
Entries 91
Mean −0.03367
Std Dev 0.9571

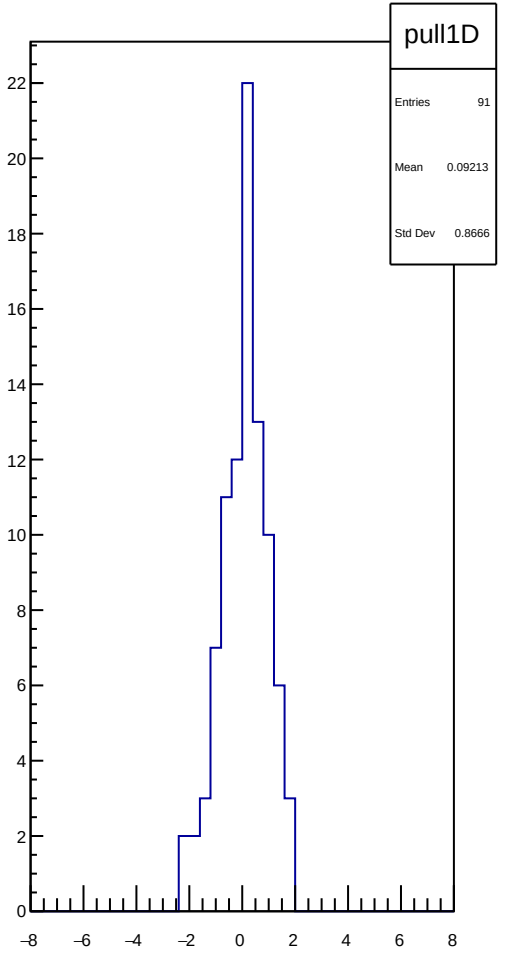

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.397e+04 / 90
p0 4971 ± 3.715
6000
5500
5000
4500
4000

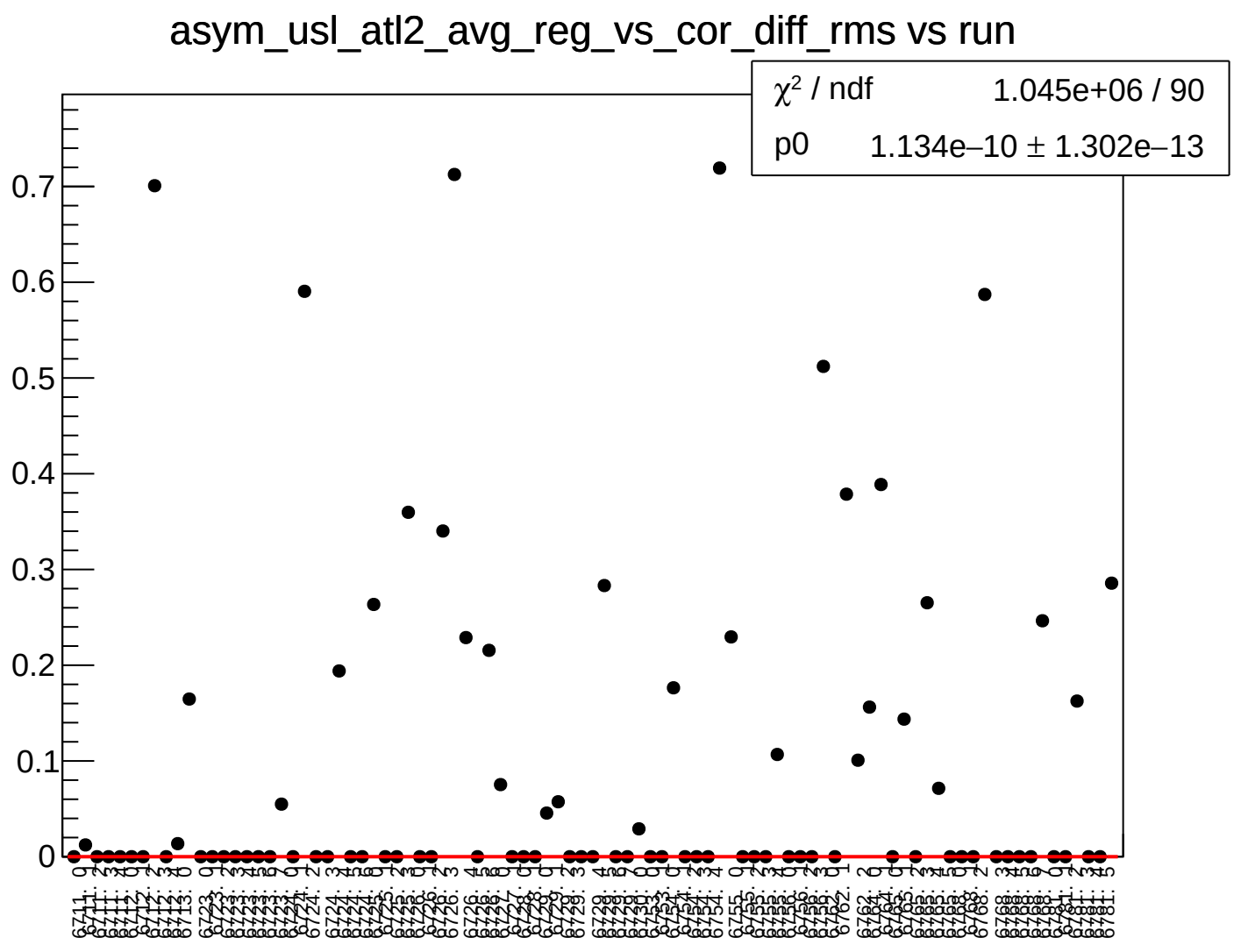

asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 90.56 / 90
p0 −1011 ± 5225
pull
Entries 91
Mean −81.55
Std Dev 0

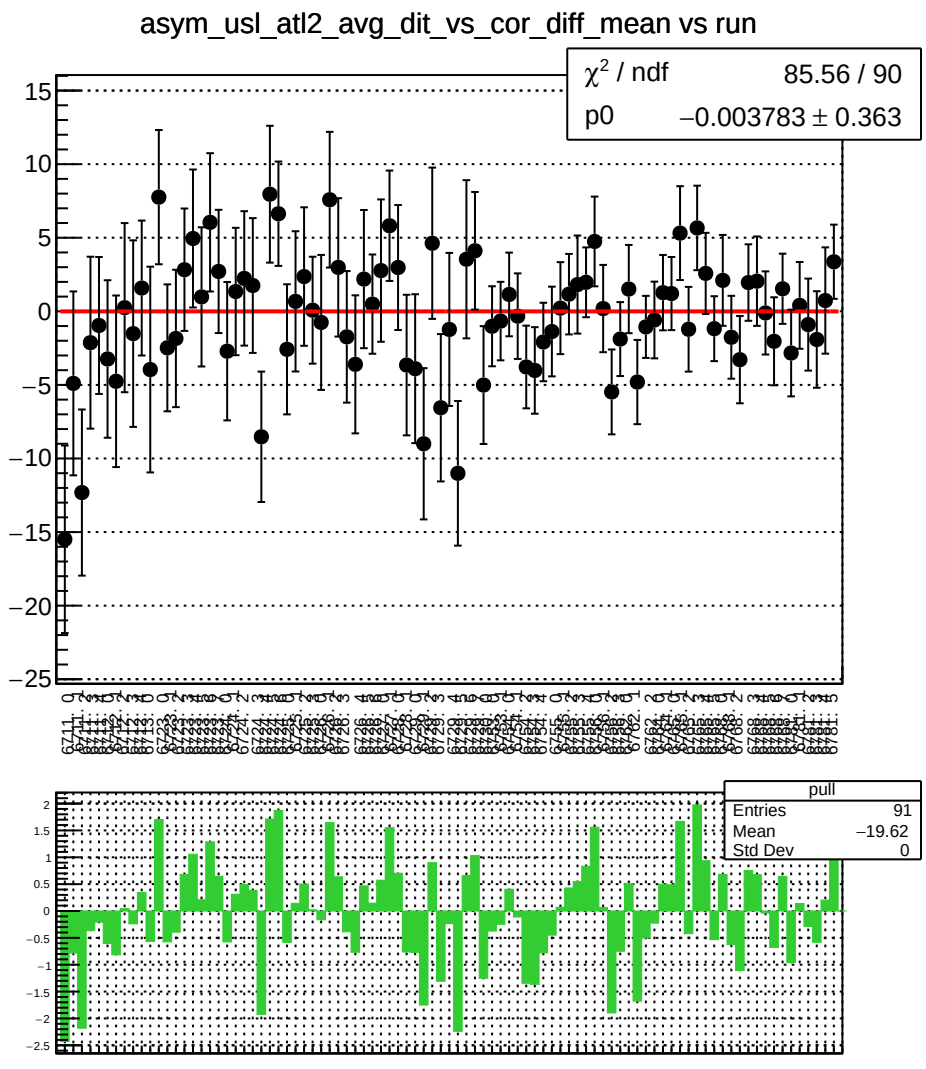

pull1D
Entries 91
Mean 0.02948
Std Dev 0.9972

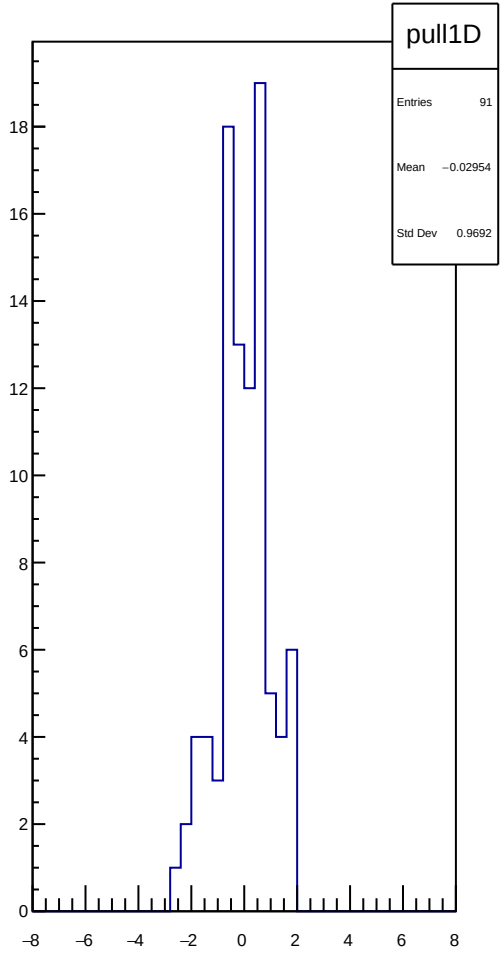

asym_usl_atl2_avg_rms vs run
χ² / ndf 8685 / 90
p0 4951 ± 3.695
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

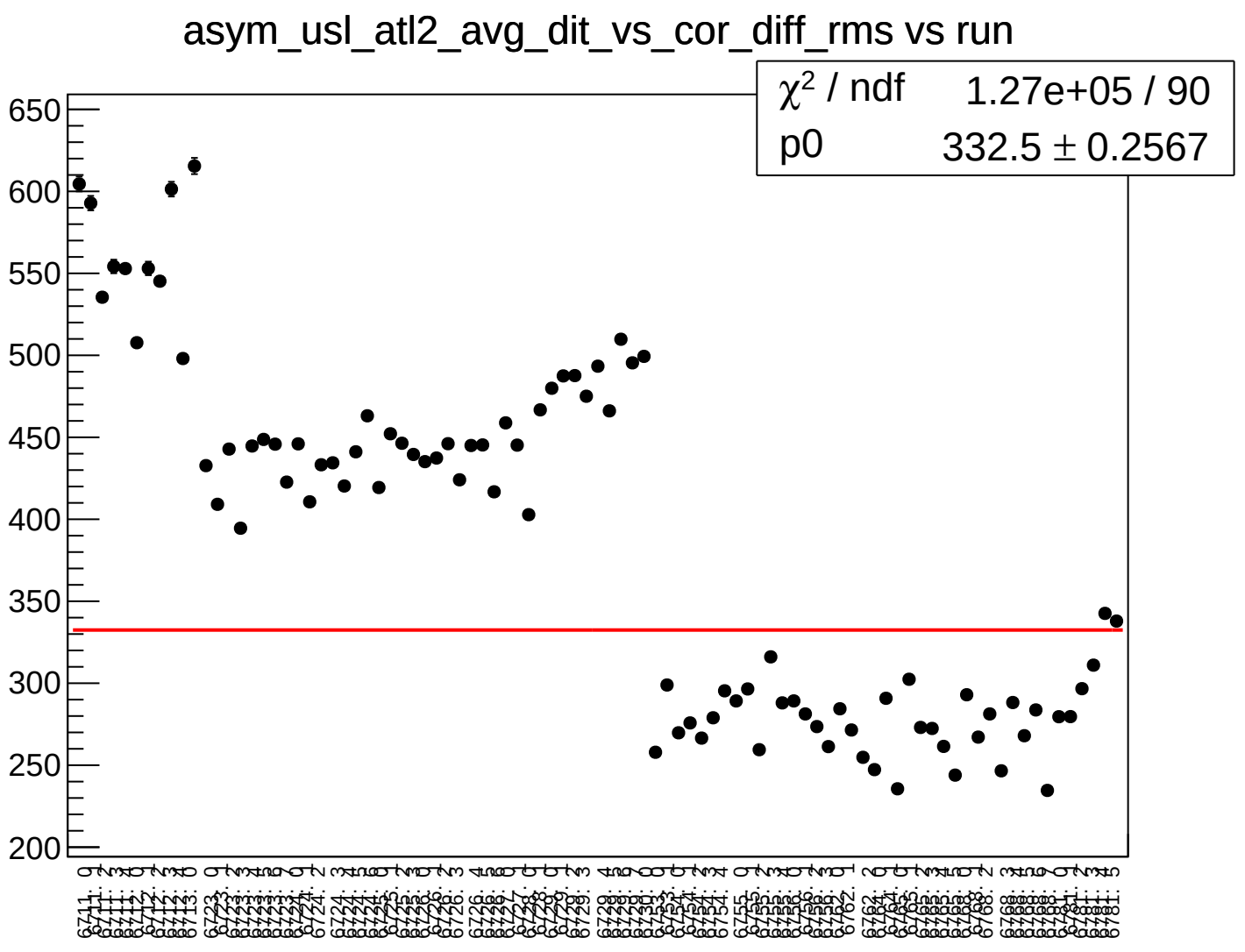

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 69.12 / 90
p0 −3.935e−13 ± 1.841e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean 71.17
Std Dev 0

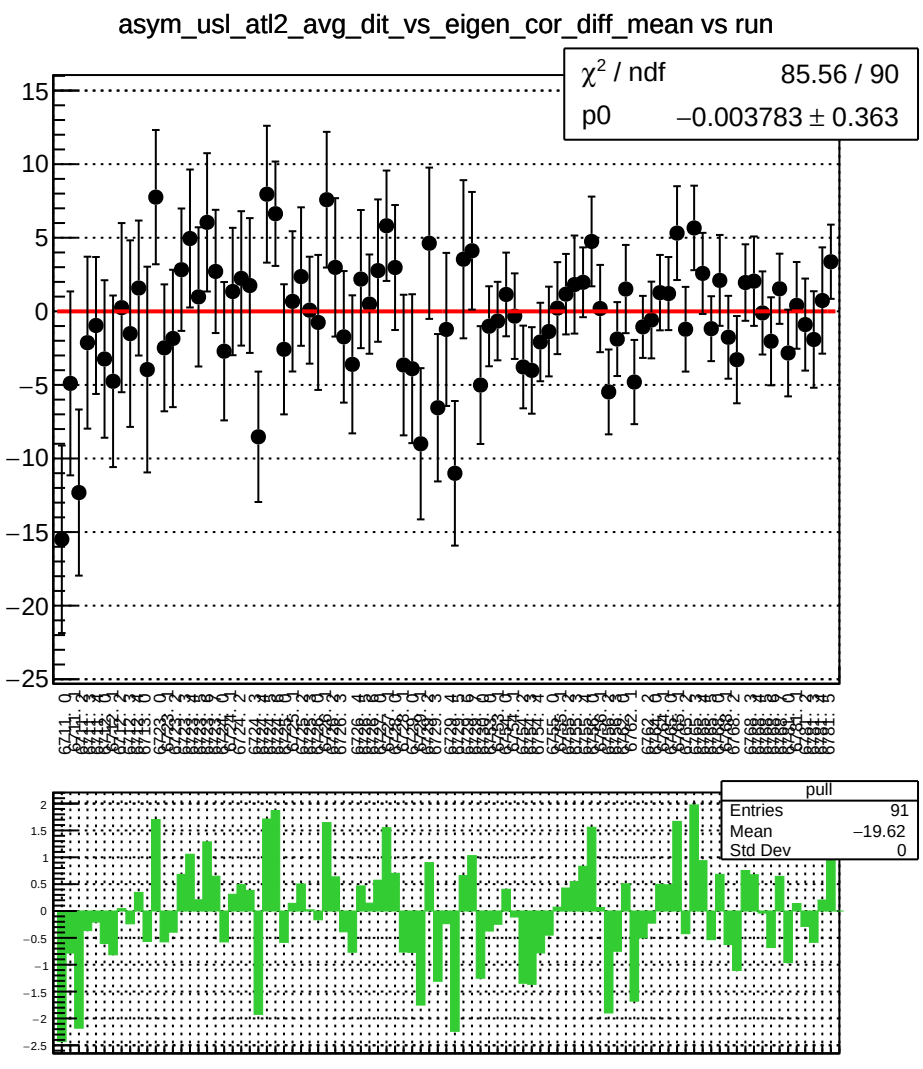

pull1D
Entries 91
Mean 0.09213
Std Dev 0.8666

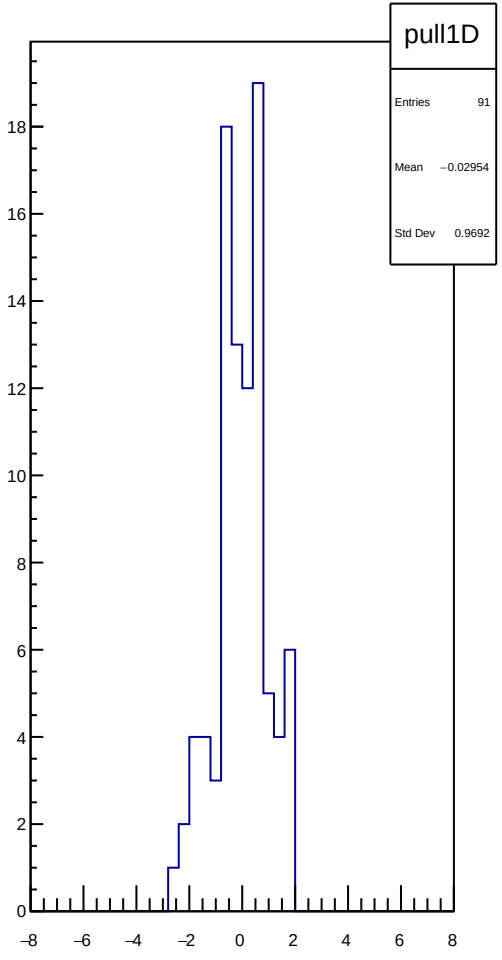

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.045e+06 / 90
p0 1.134e−10 ± 1.302e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

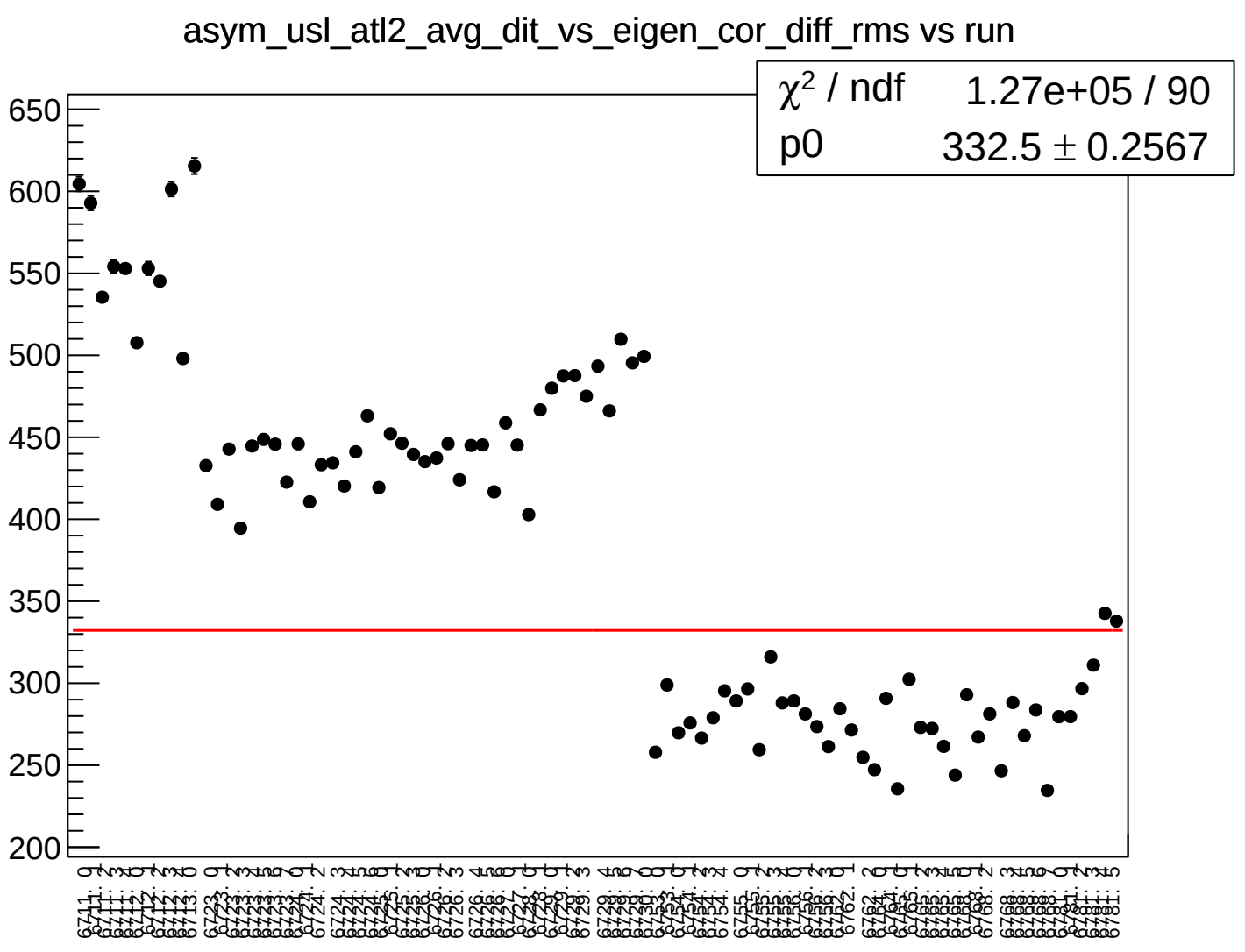

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.56 / 90
p0 −0.003783 ± 0.363
pull
Entries 91
Mean −19.62
Std Dev 0

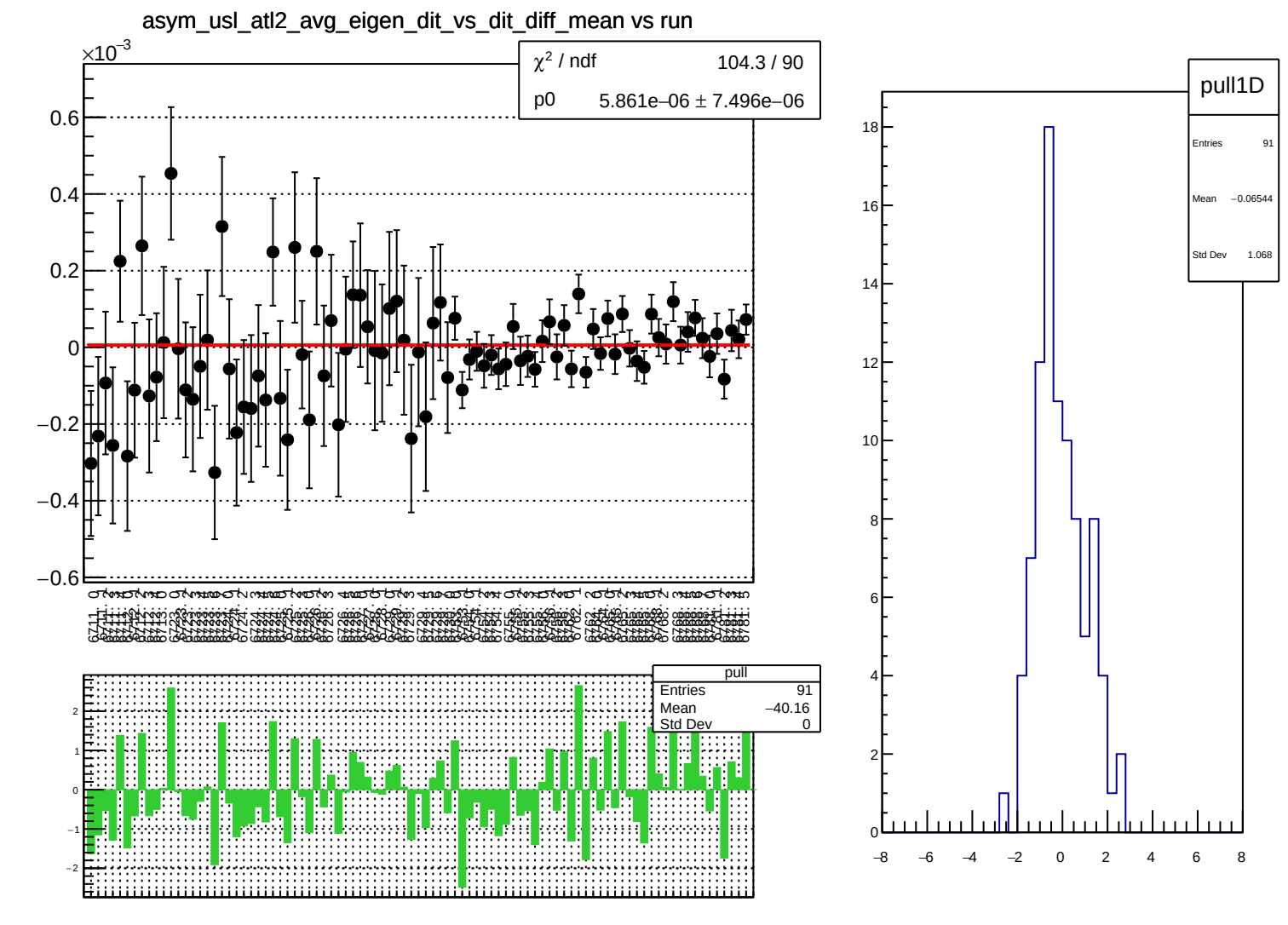

pull1D
Entries 91
Mean −0.02954
Std Dev 0.9692

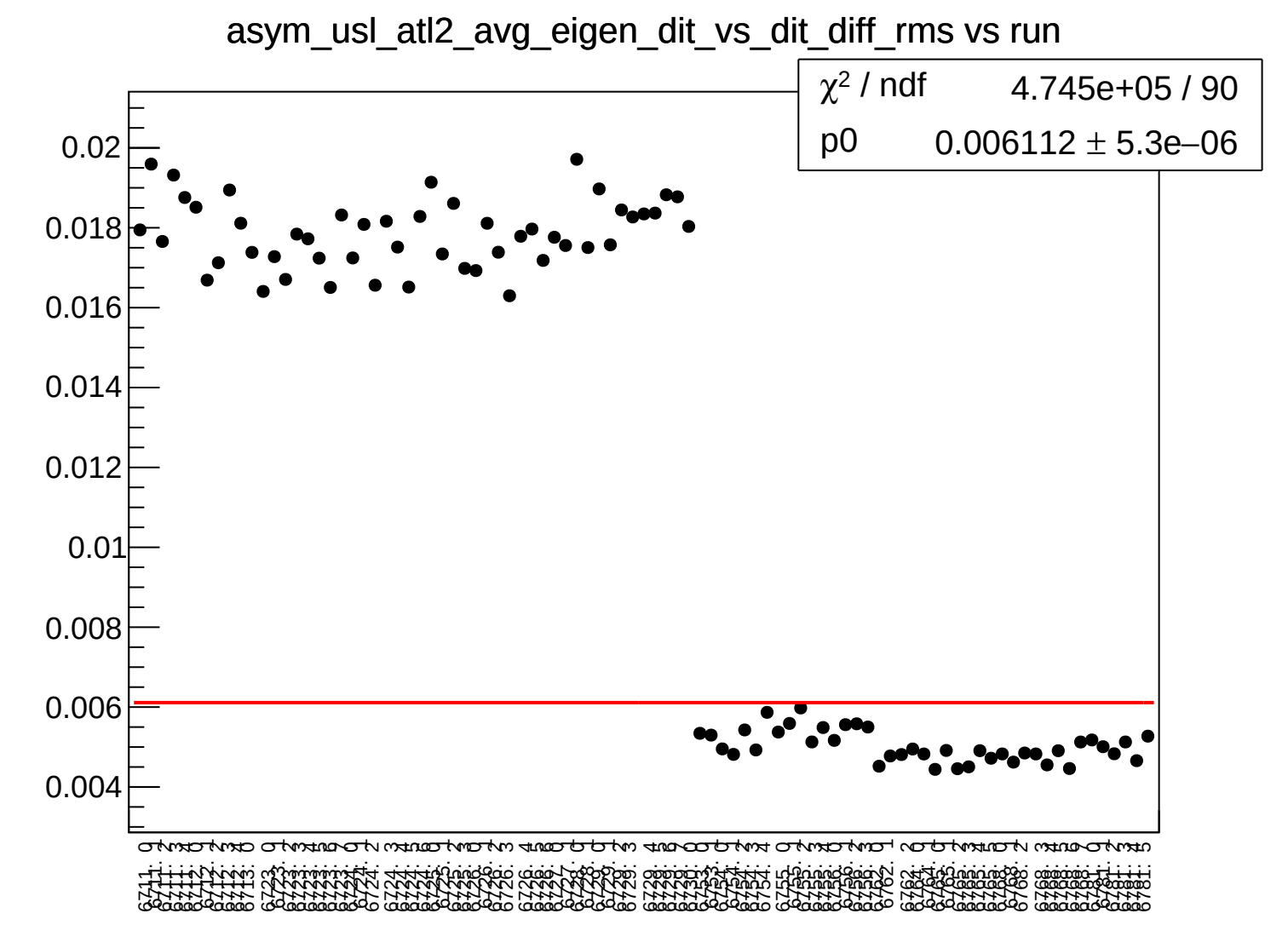

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.27e+05 / 90
p0 332.5 ± 0.2567
650
600
550
500
450
400
350
300
250
200

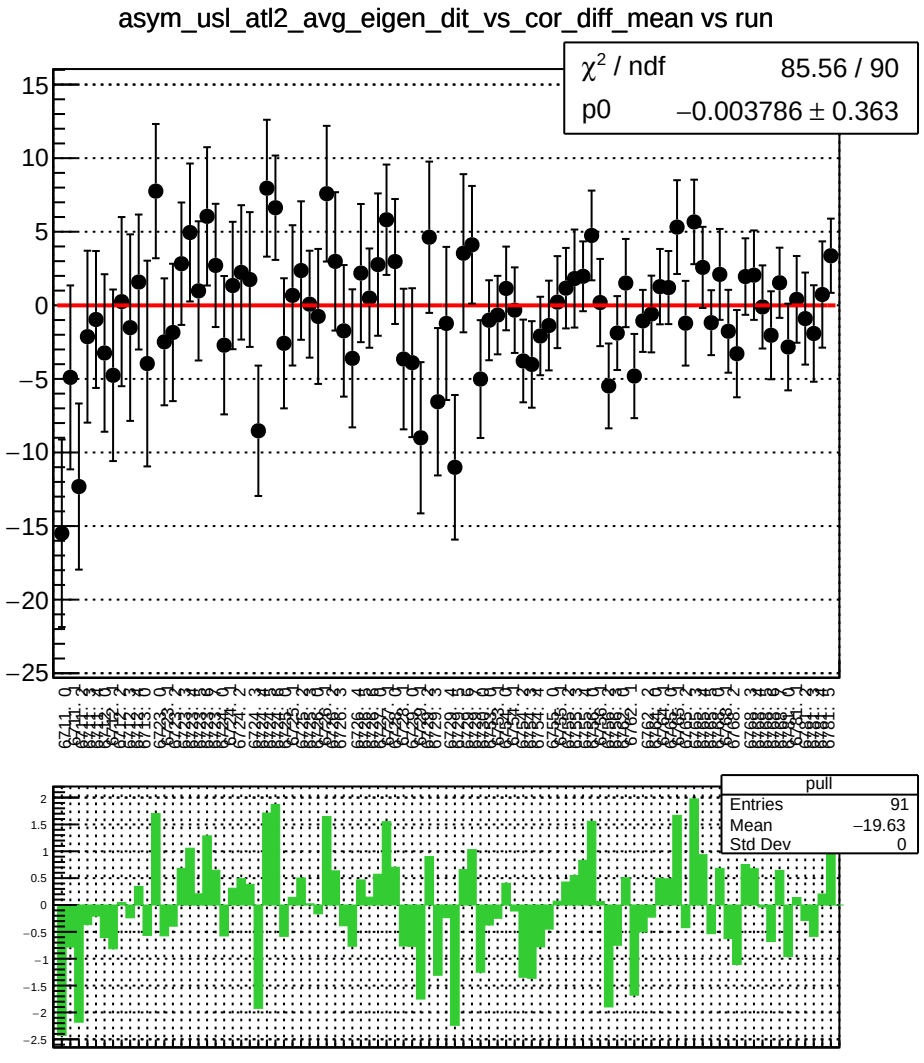

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.56 / 90
p0 −0.003783 ± 0.363
pull
Entries 91
Mean −19.62
Std Dev 0

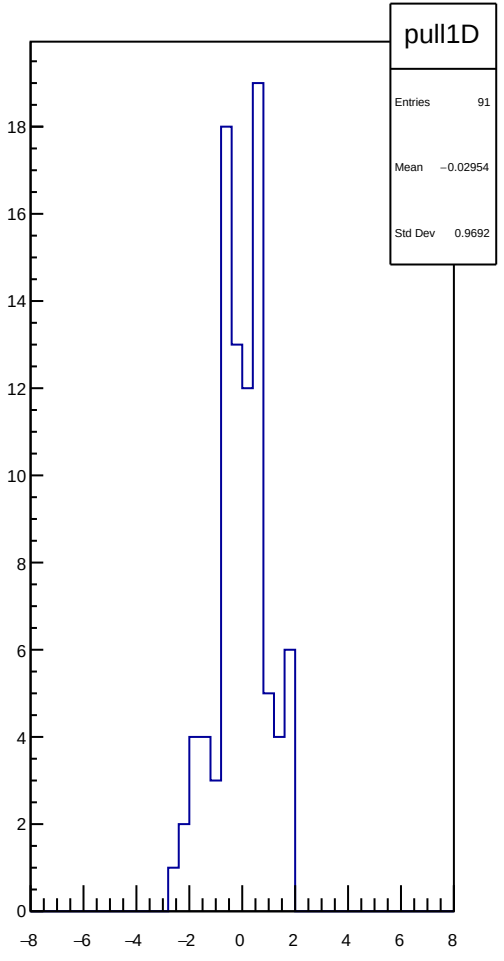

pull1D
Entries 91
Mean −0.02954
Std Dev 0.9692

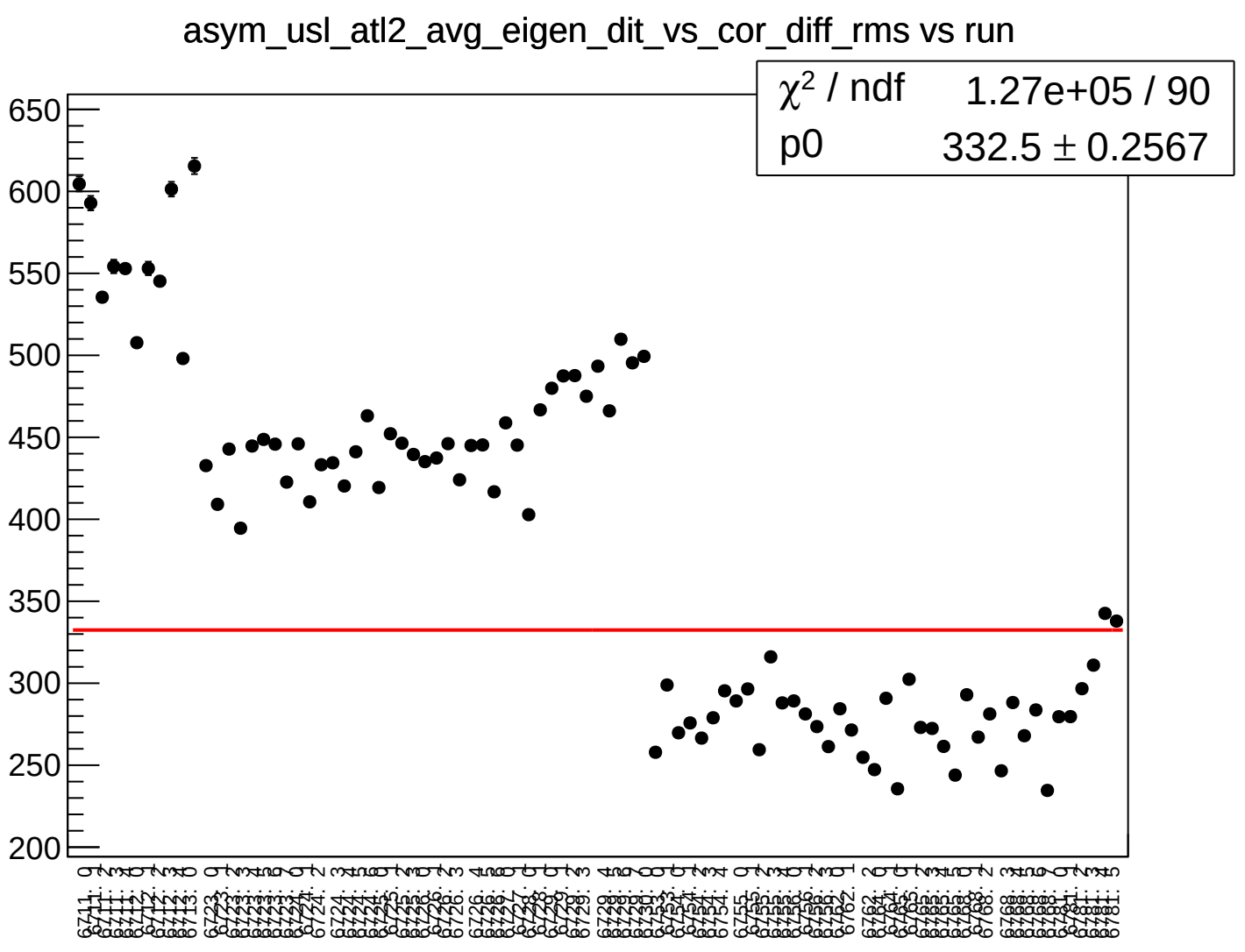

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.27e+05 / 90
p0 332.5 ± 0.2567
650
600
550
500
450
400
350
300
250
200

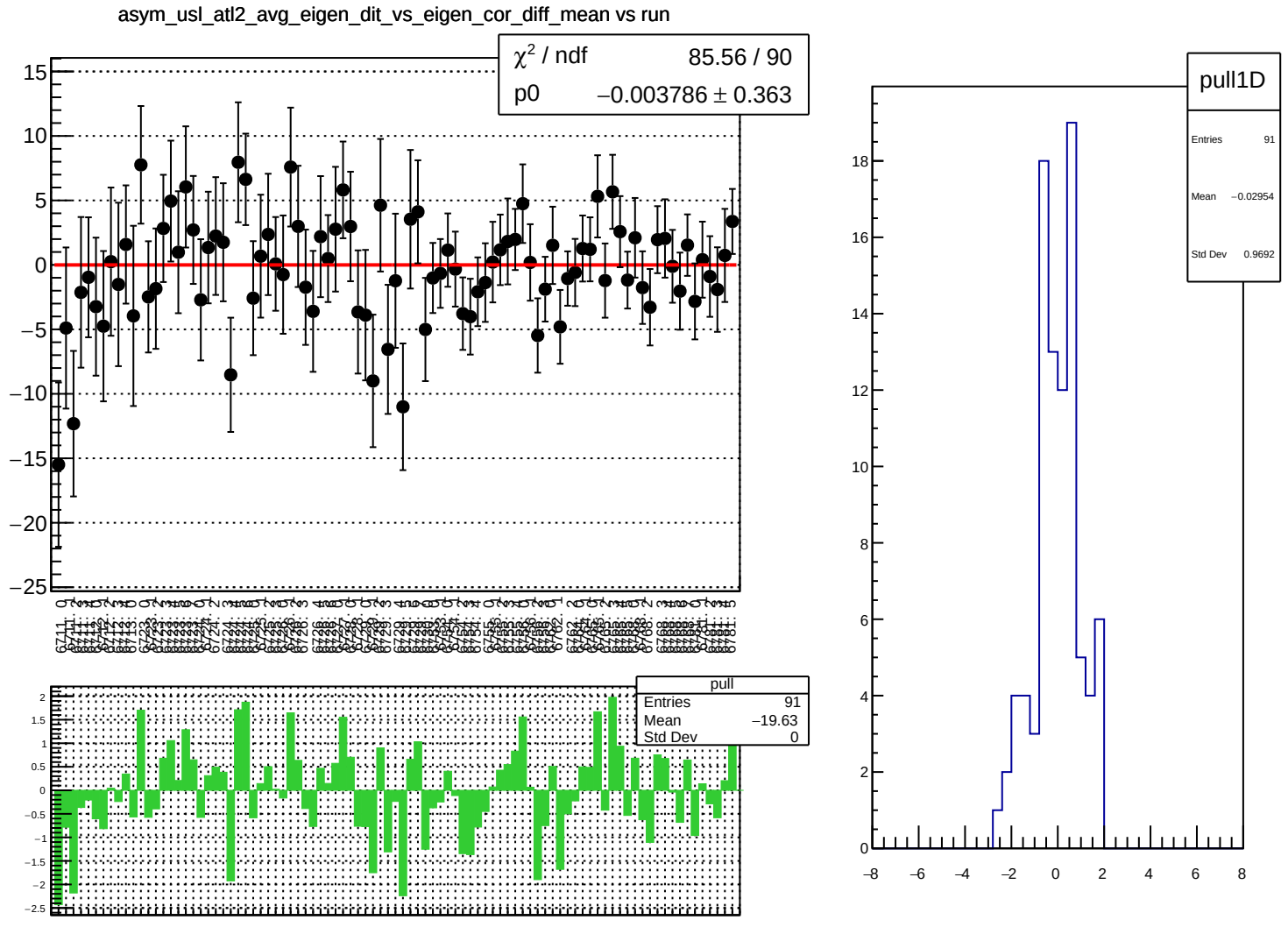

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.3 / 90
p0 5.861e−06 ± 7.496e−06
pull
Entries 91
Mean −40.16
Std Dev 0
pull1D
Entries 91
Mean −0.06544
Std Dev 1.068

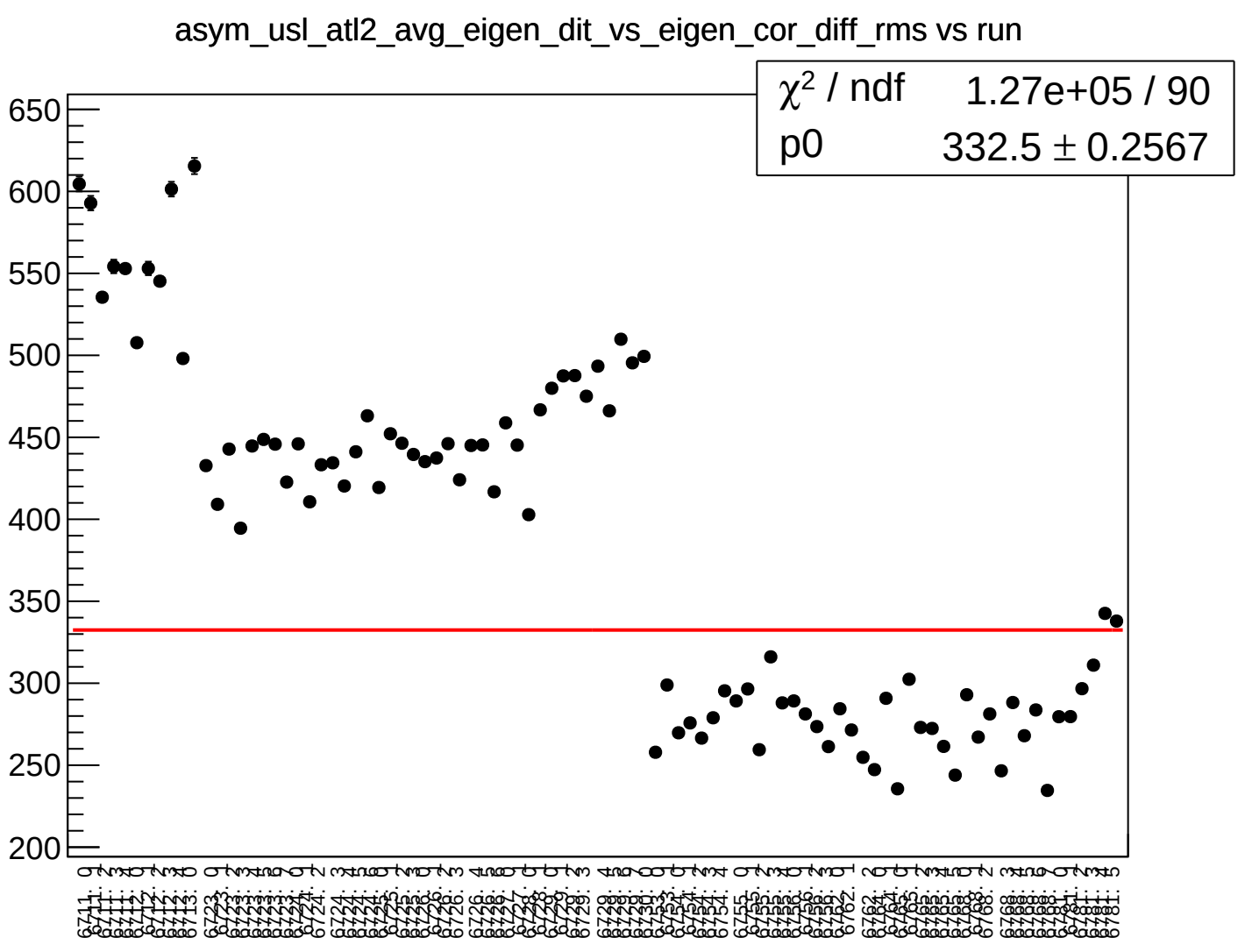

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.745e+05 / 90
p0 0.006112 ± 5.3e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

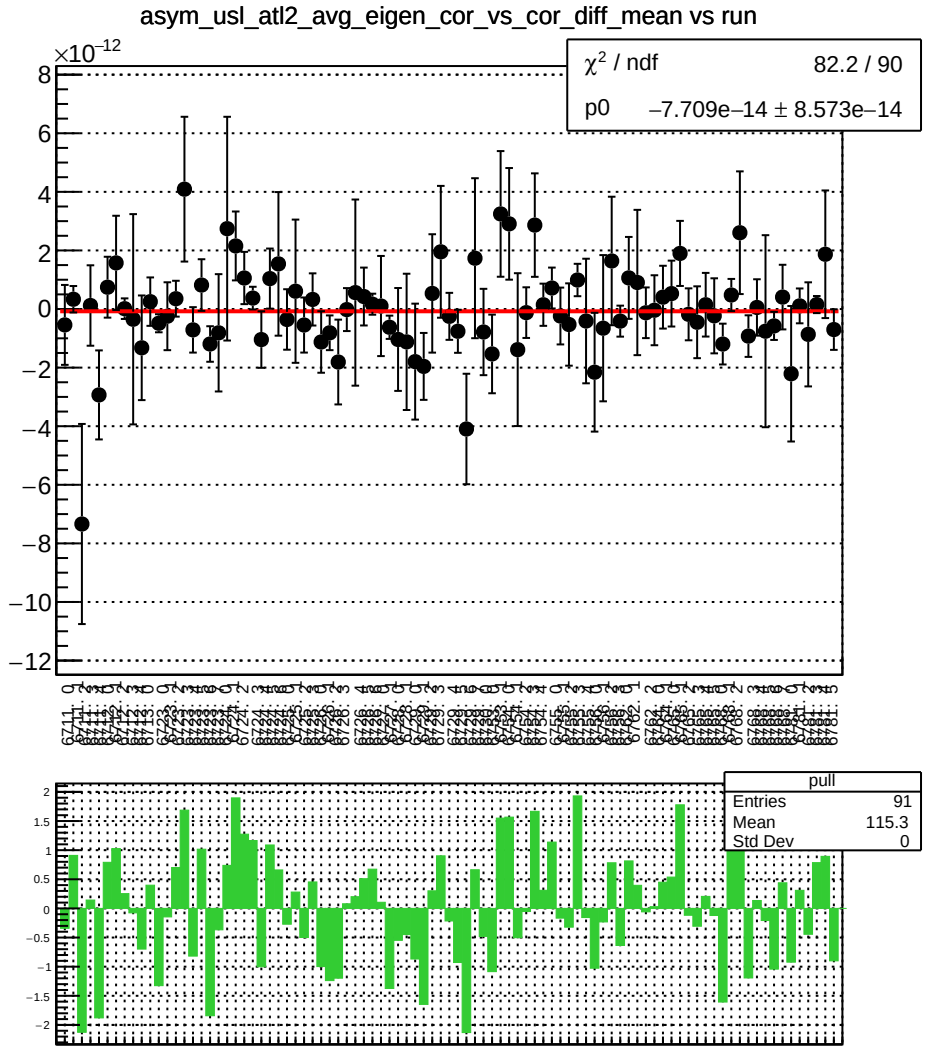

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.56 / 90
p0 −0.003786 ± 0.363
pull
Entries 91
Mean −19.63
Std Dev 0

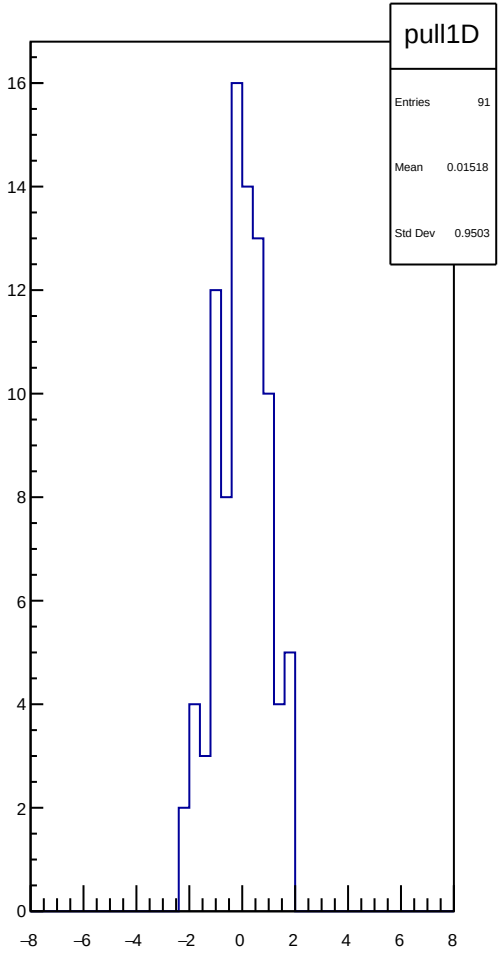

pull1D
Entries 91
Mean −0.02954
Std Dev 0.9692

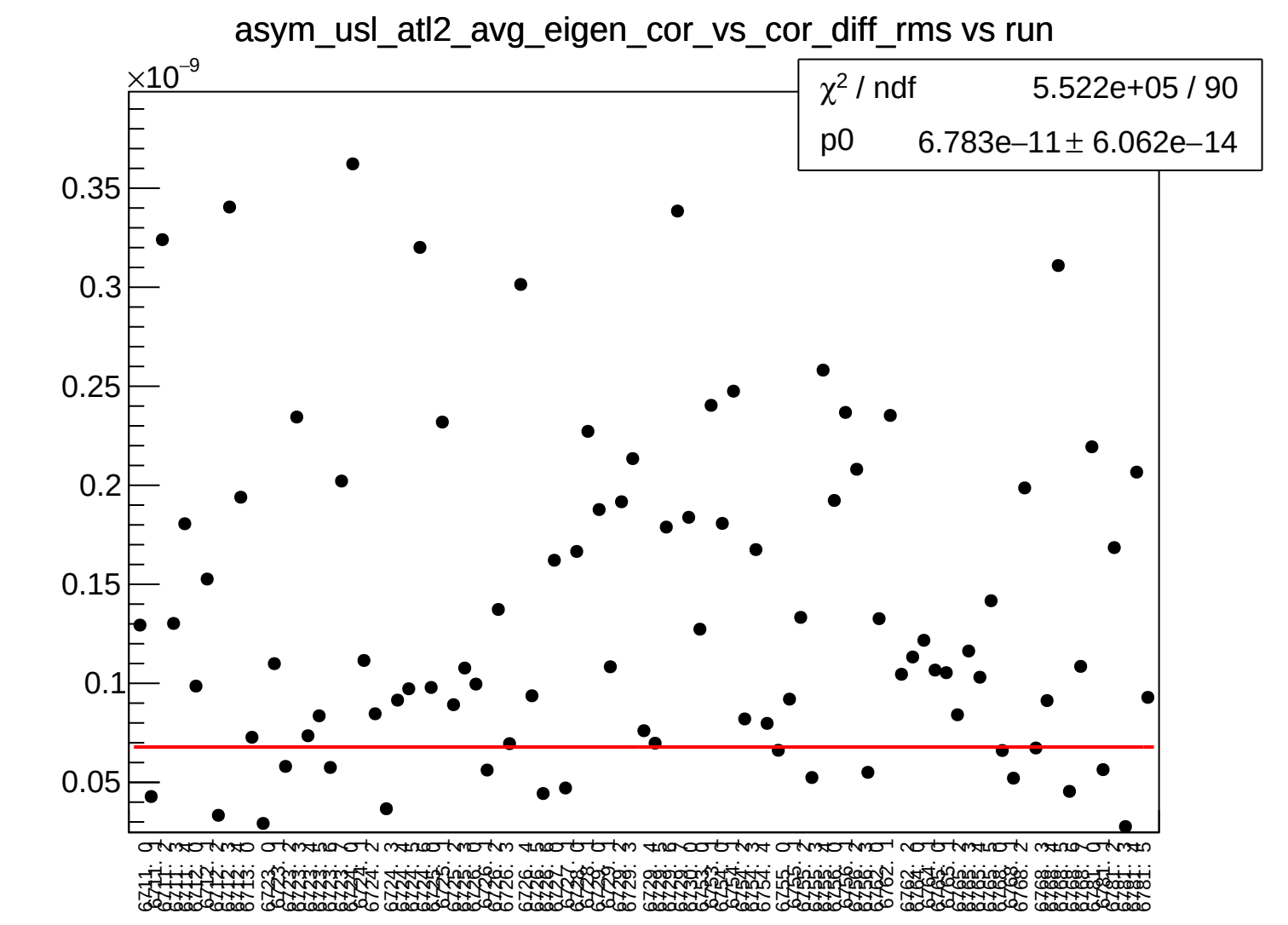

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.27e+05 / 90
p0 332.5 ± 0.2567
650
600
550
500
450
400
350
300
250
200

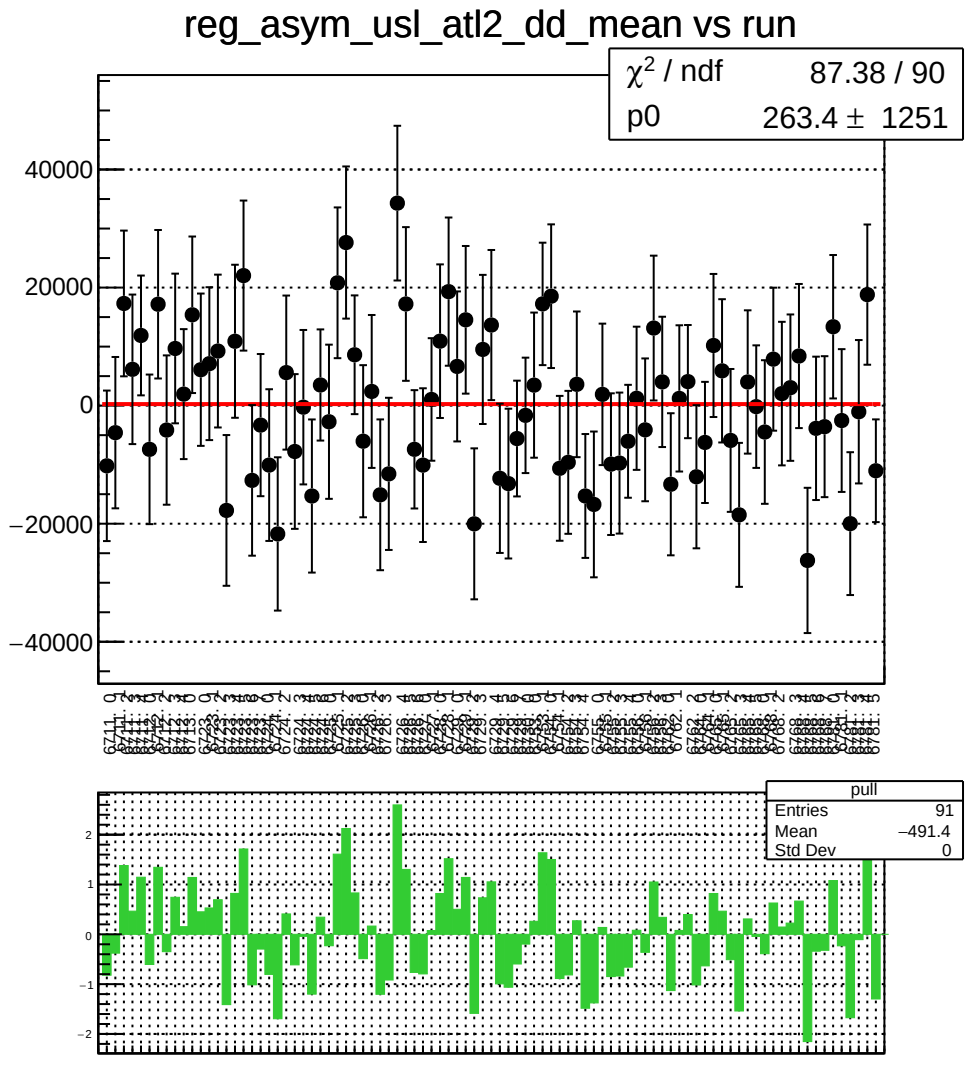

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.56 / 90
p0 −0.003786 ± 0.363
pull
Entries 91
Mean −19.63
Std Dev 0
pull1D
Entries 91
Mean −0.02954
Std Dev 0.9692

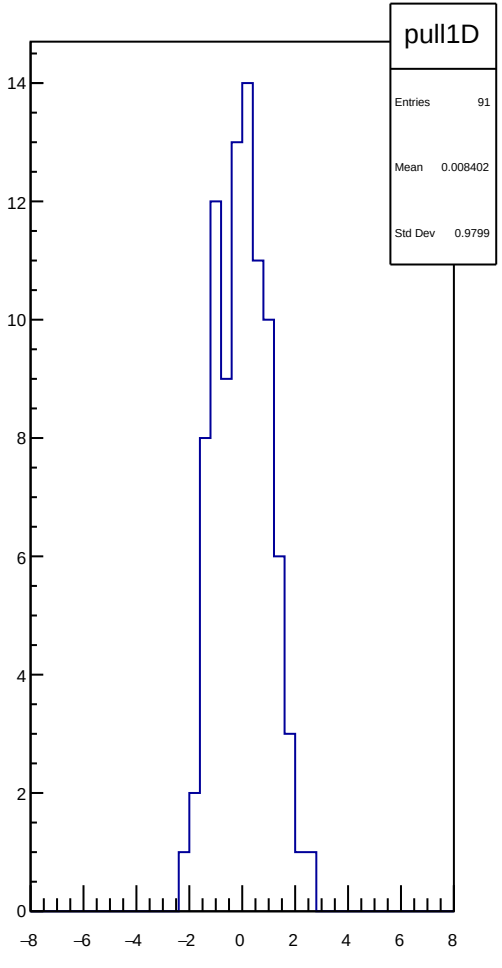

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.27e+05 / 90
p0 332.5 ± 0.2567
650
600
550
500
450
400
350
300
250
200

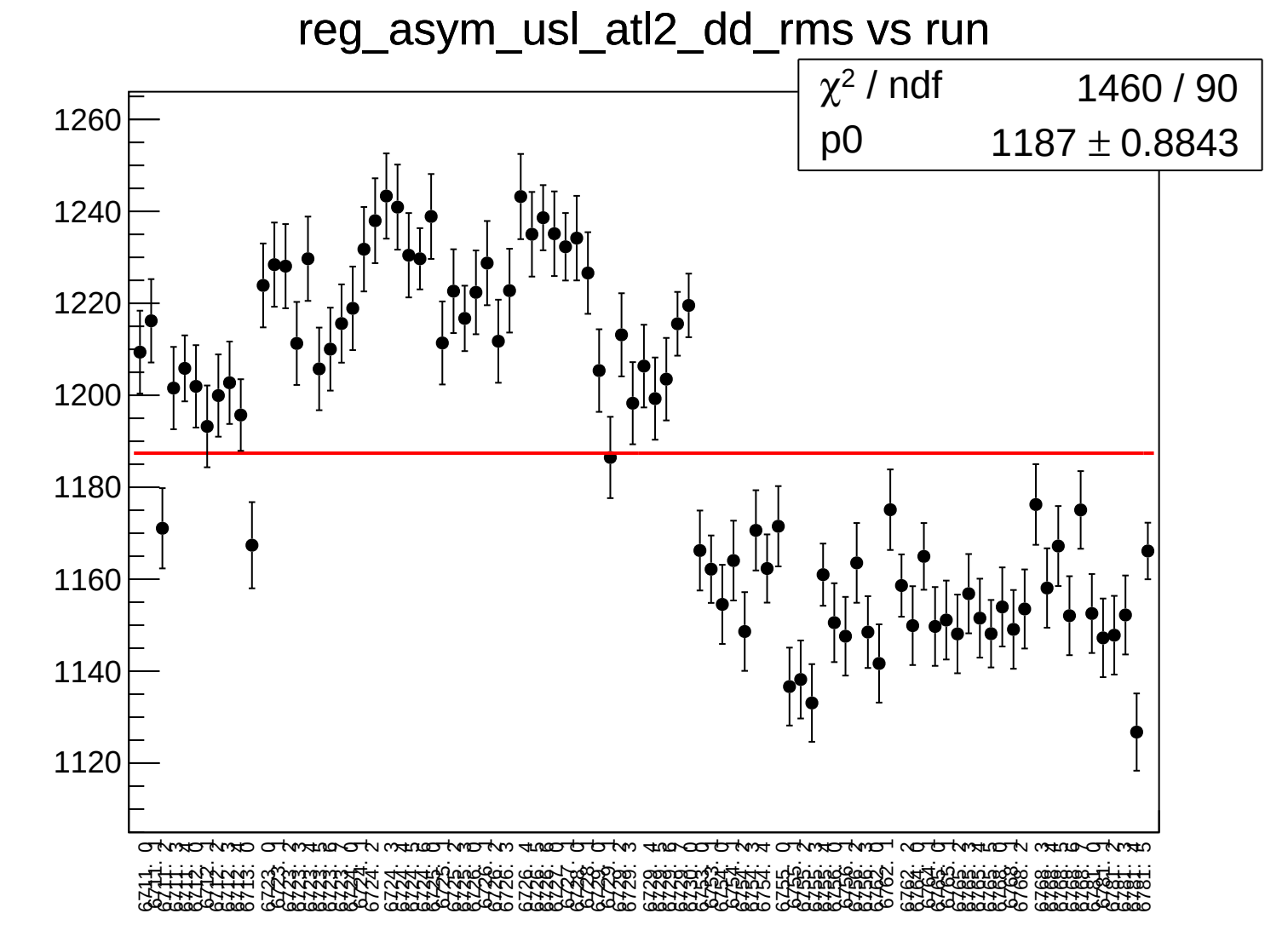

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 82.2 / 90
p0 −7.709e−14 ± 8.573e−14
pull
Entries 91
Mean 115.3
Std Dev 0

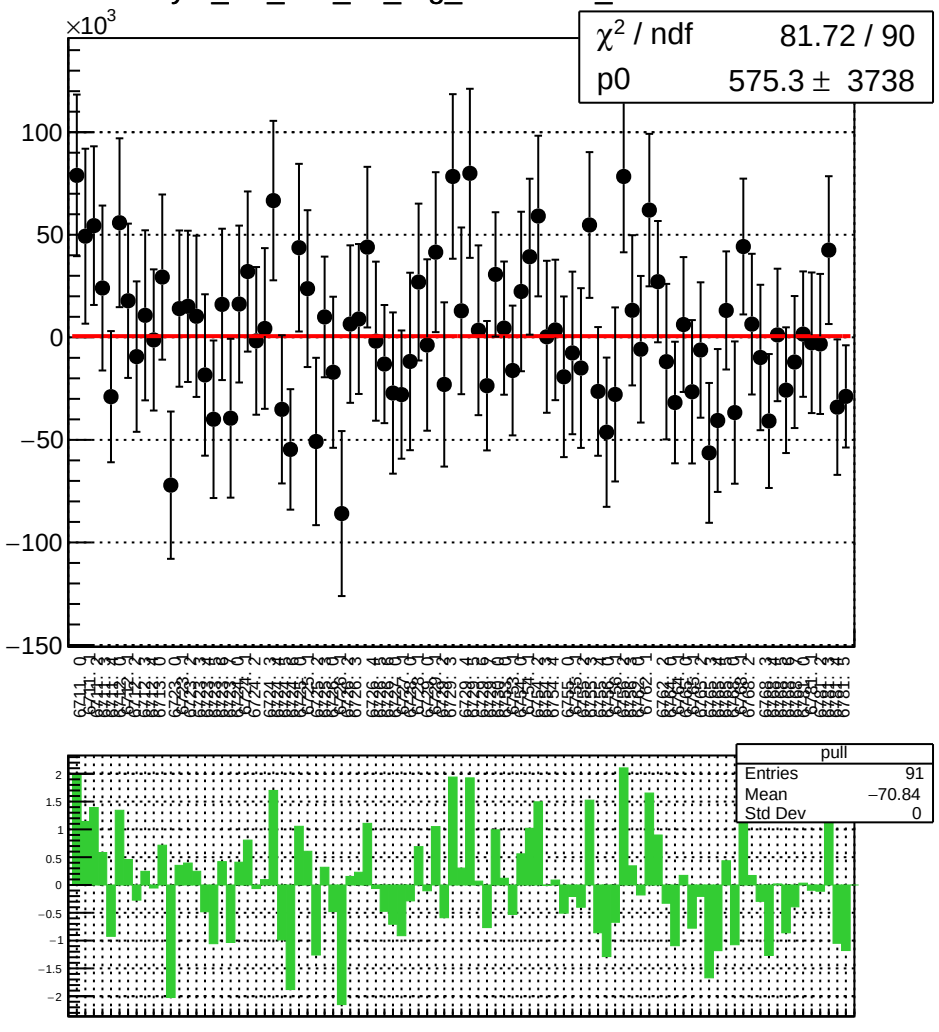

pull1D
Entries 91
Mean 0.01518
Std Dev 0.9503

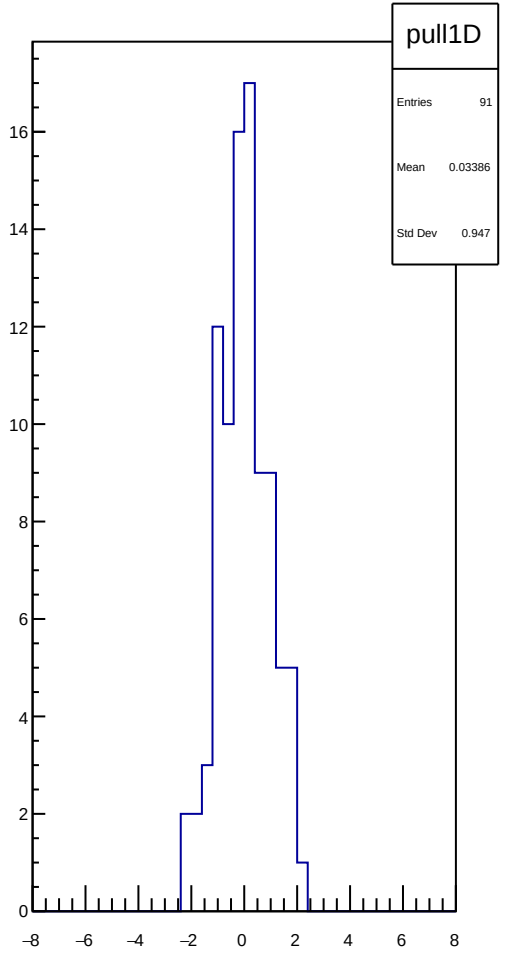

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.522e+05 / 90
p0 6.783e−11 ± 6.062e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

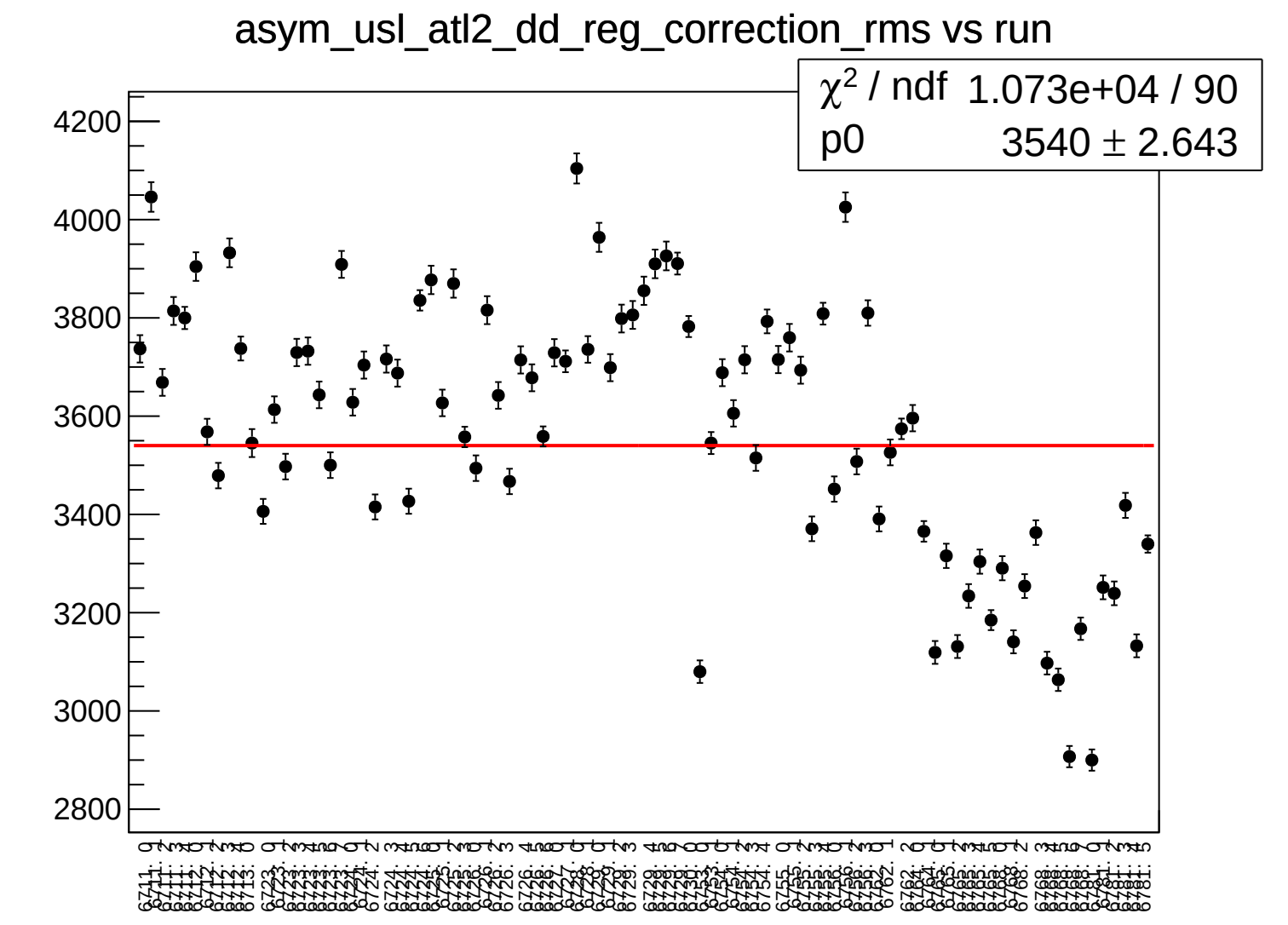

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 87.38 / 90
p0 263.4 ± 1251
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −491.4
Std Dev 0
2
1
0
−1
−2

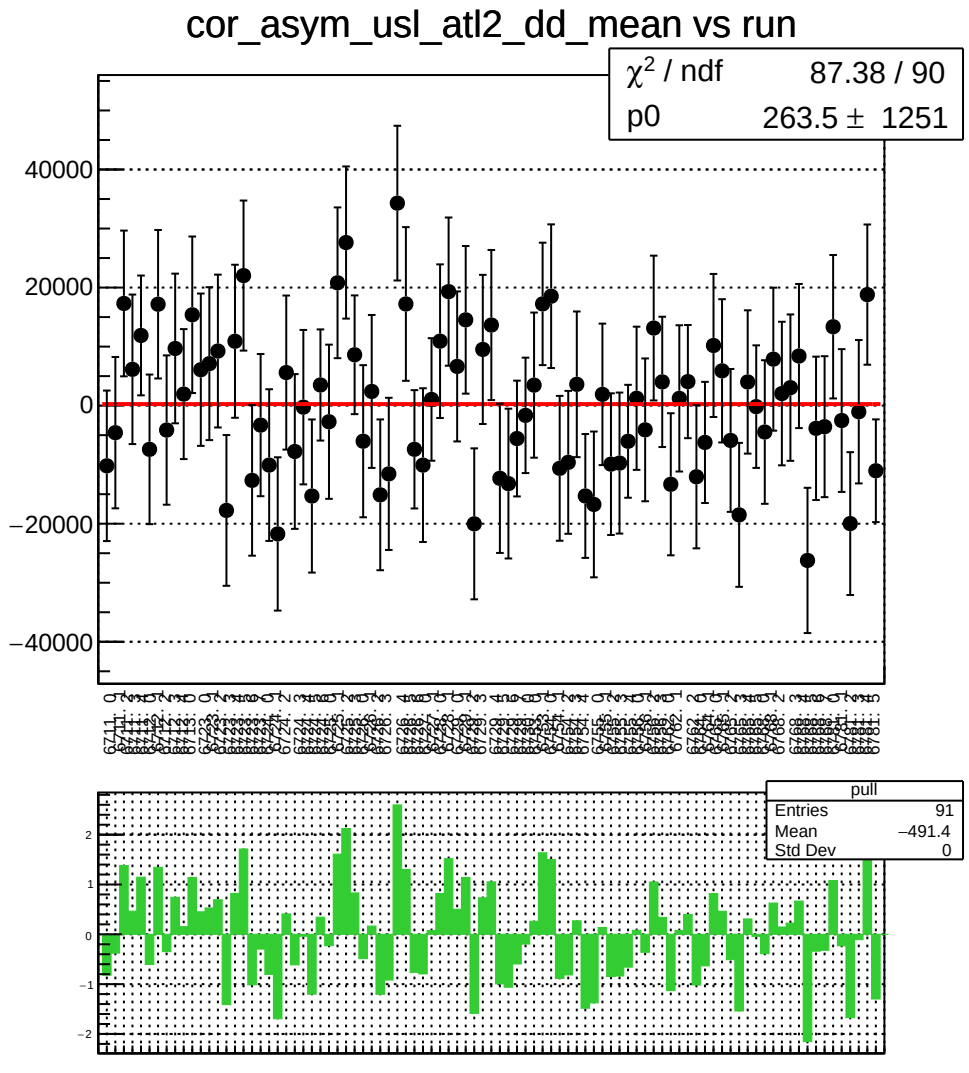

pull1D
Entries 91
Mean 0.008402
Std Dev 0.9799
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

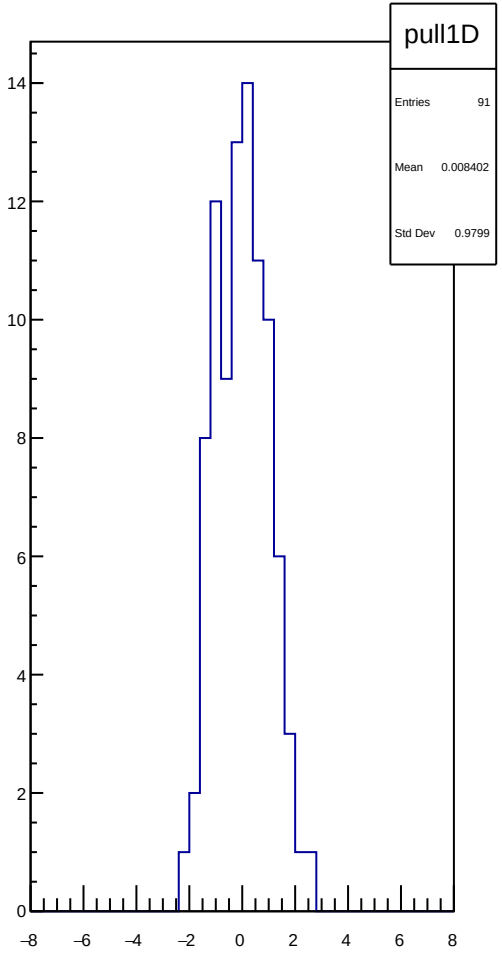

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 1460 / 90
p0 1187 ± 0.8843
1260
1240
1220
1200
1180
1160
1140
1120

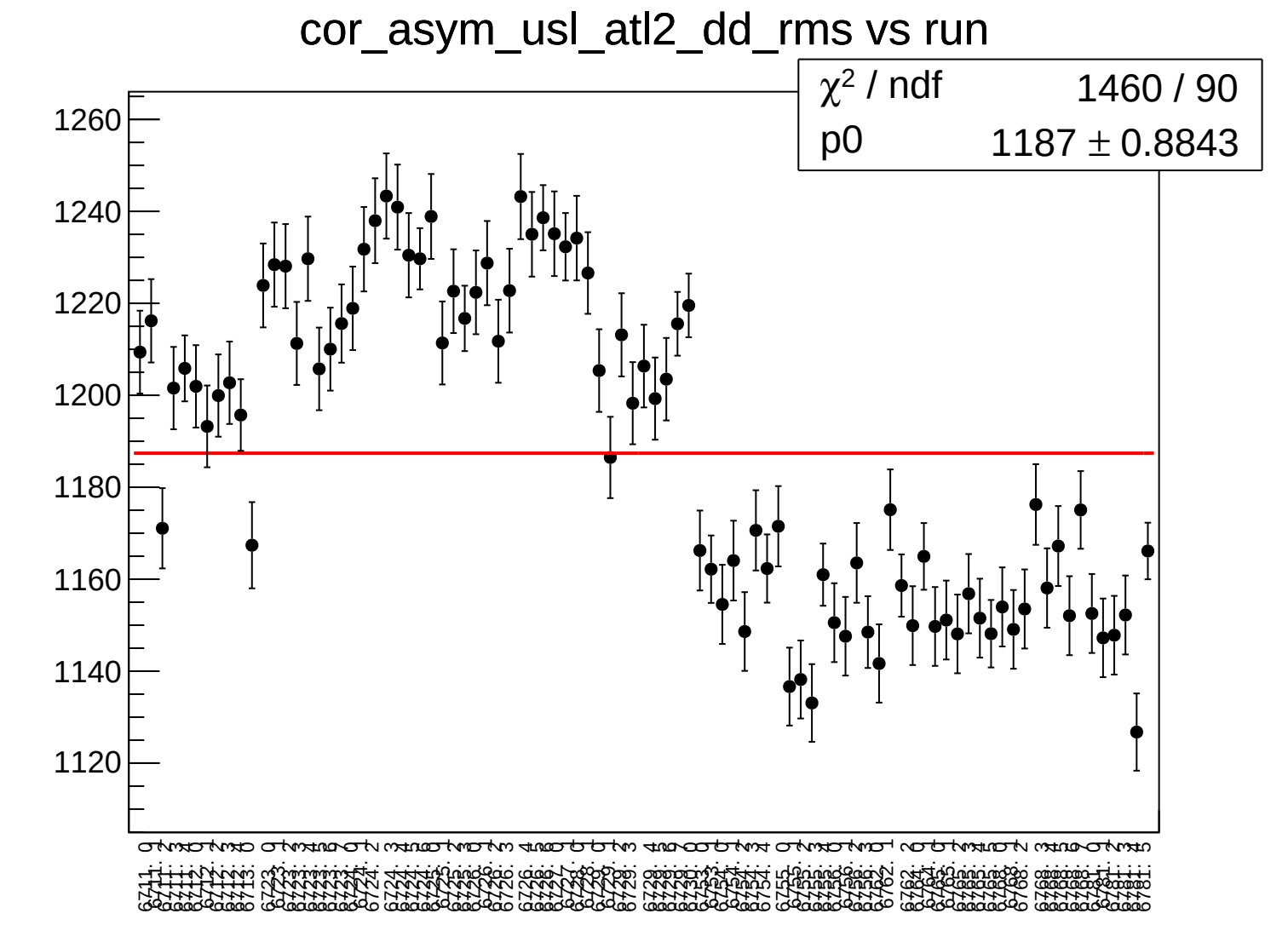

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 81.72 / 90
p0 575.3 ± 3738
100
50
0
−50
−100
−150
pull
Entries 91
Mean −70.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

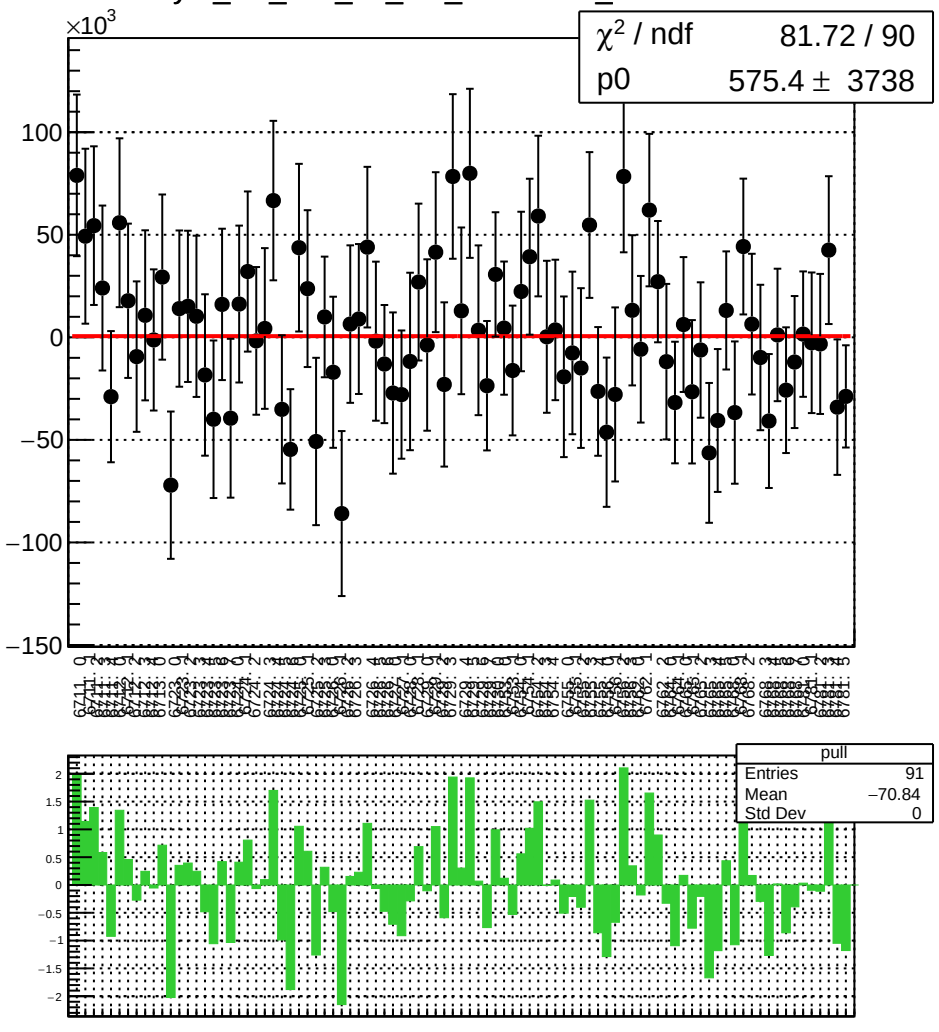

pull1D
Entries 91
Mean 0.03386
Std Dev 0.947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

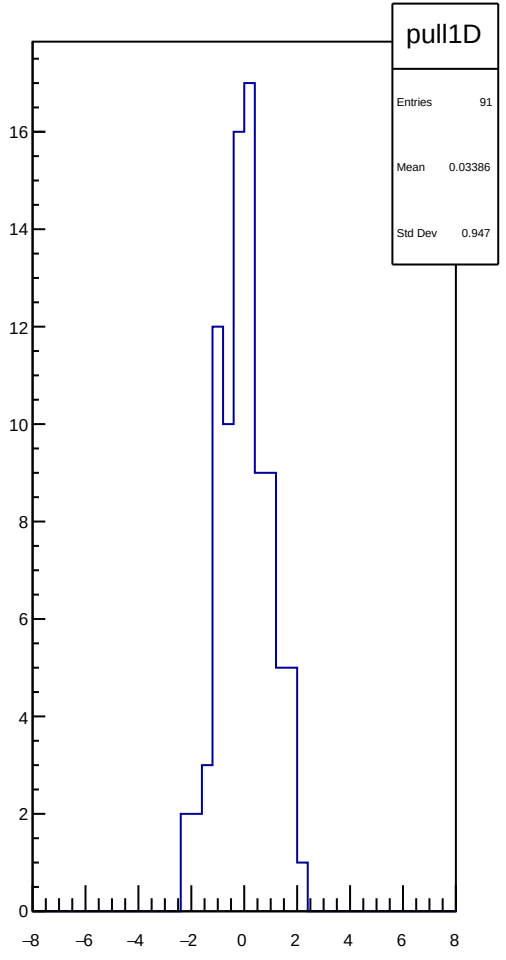

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 1.073e+04 / 90
p0 3540 ± 2.643
4200
4000
3800
3600
3400
3200
3000
2800

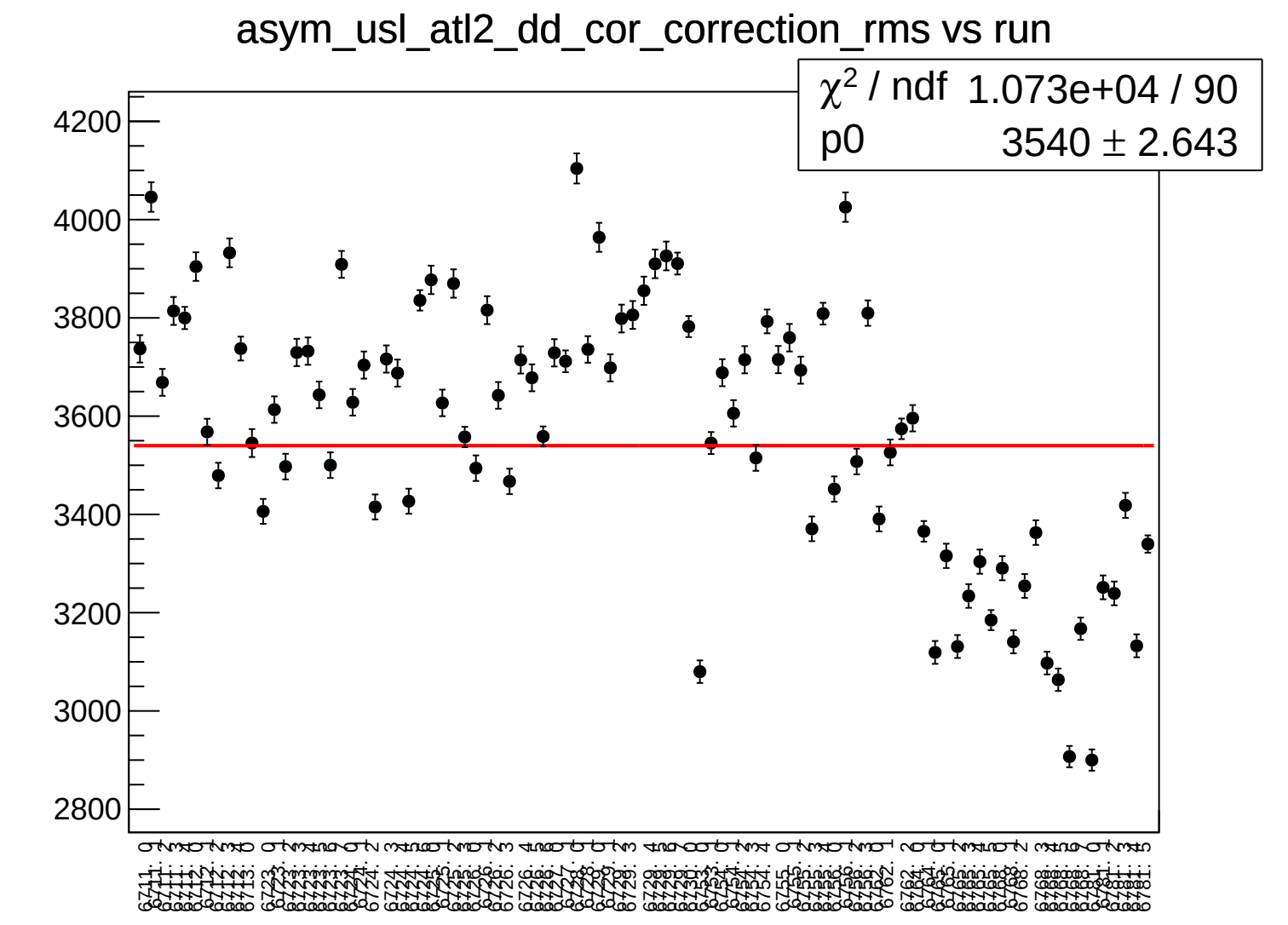

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 87.38 / 90
p0 263.5 ± 1251
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −491.4
Std Dev 0
2
1
0
−1
−2

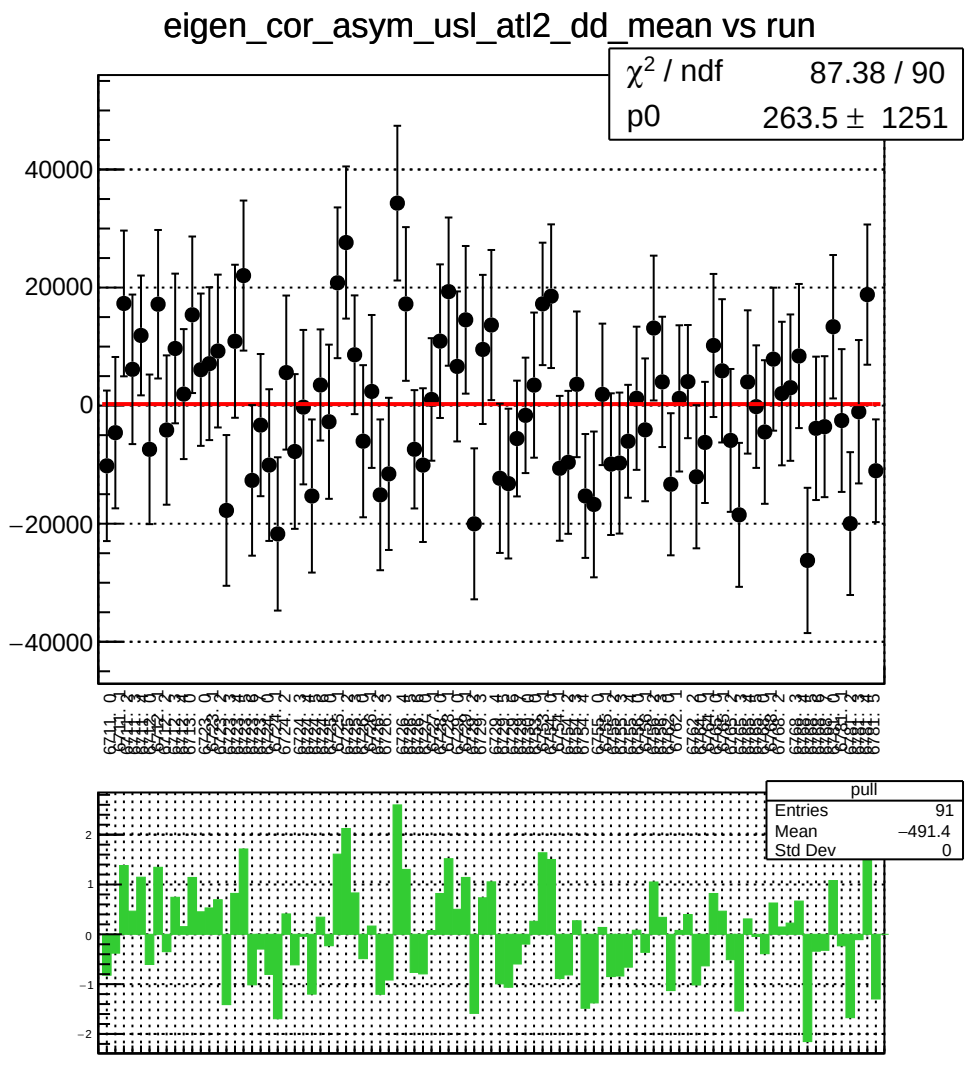

pull1D
Entries 91
Mean 0.008402
Std Dev 0.9799
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

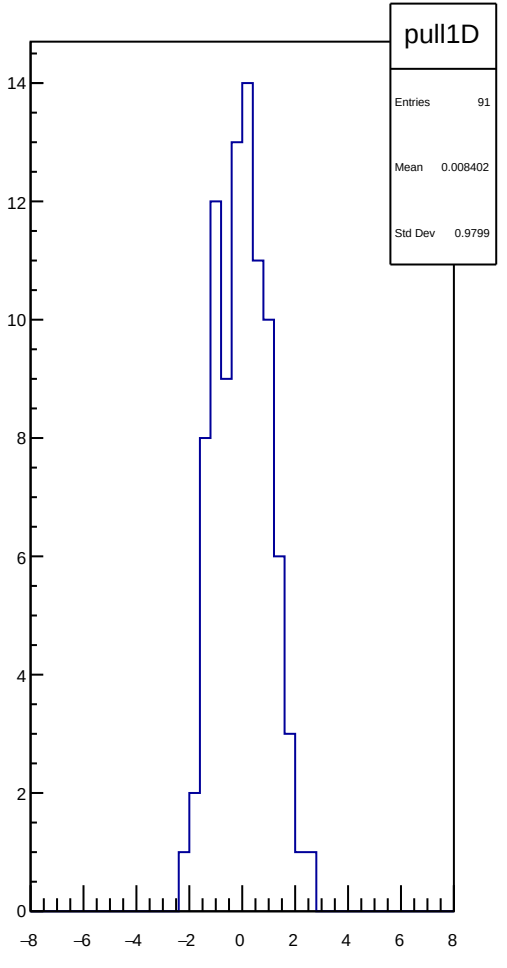

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 1460 / 90
p0 1187 ± 0.8843
1260
1240
1220
1200
1180
1160
1140
1120

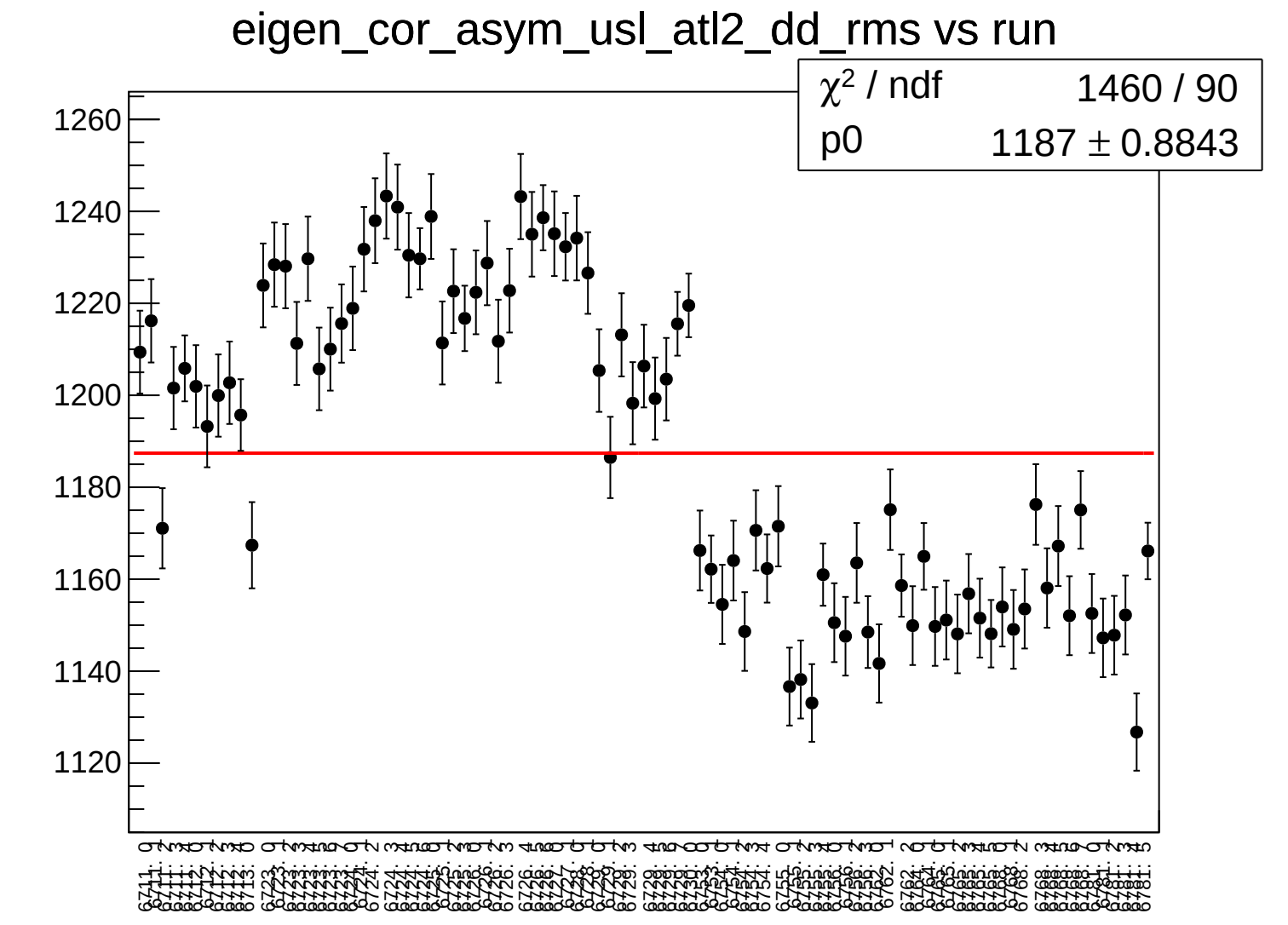

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 81.72 / 90
p0 575.4 ± 3738
100
50
0
−50
−100
−150
pull
Entries 91
Mean −70.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

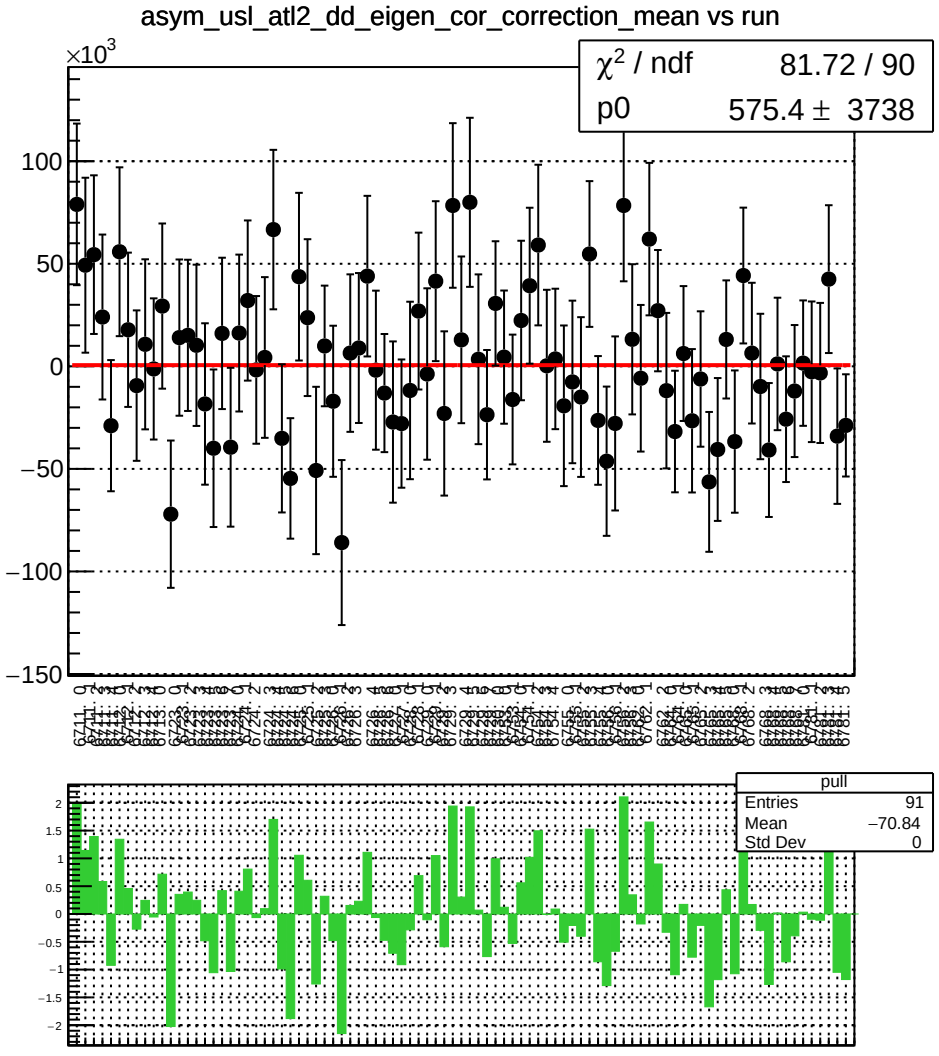

pull1D
Entries 91
Mean 0.03386
Std Dev 0.947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

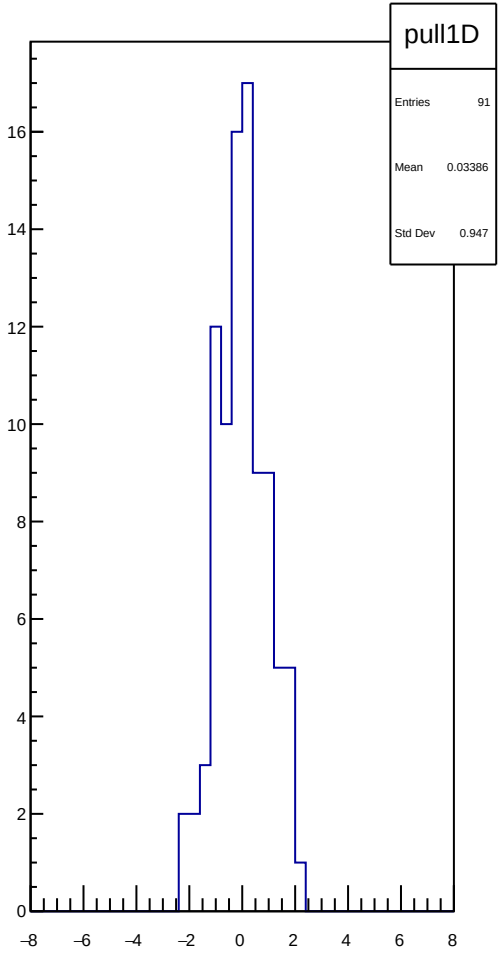

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 1.073e+04 / 90
p0 3540 ± 2.643
4200
4000
3800
3600
3400
3200
3000
2800

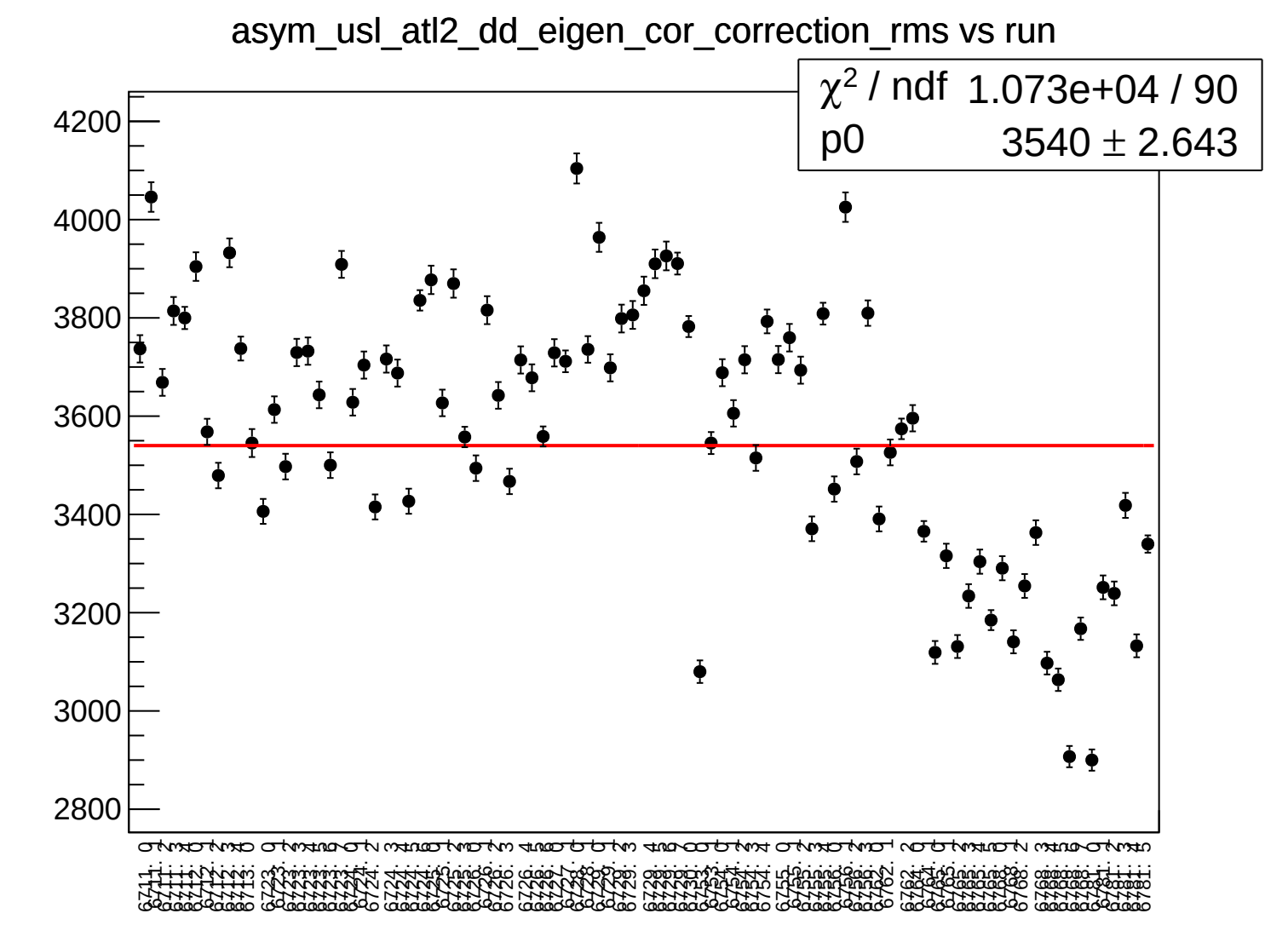

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 87.38 / 90
p0 263.5 ± 1251
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −491.4
Std Dev 0
2
1
0
−1
−2

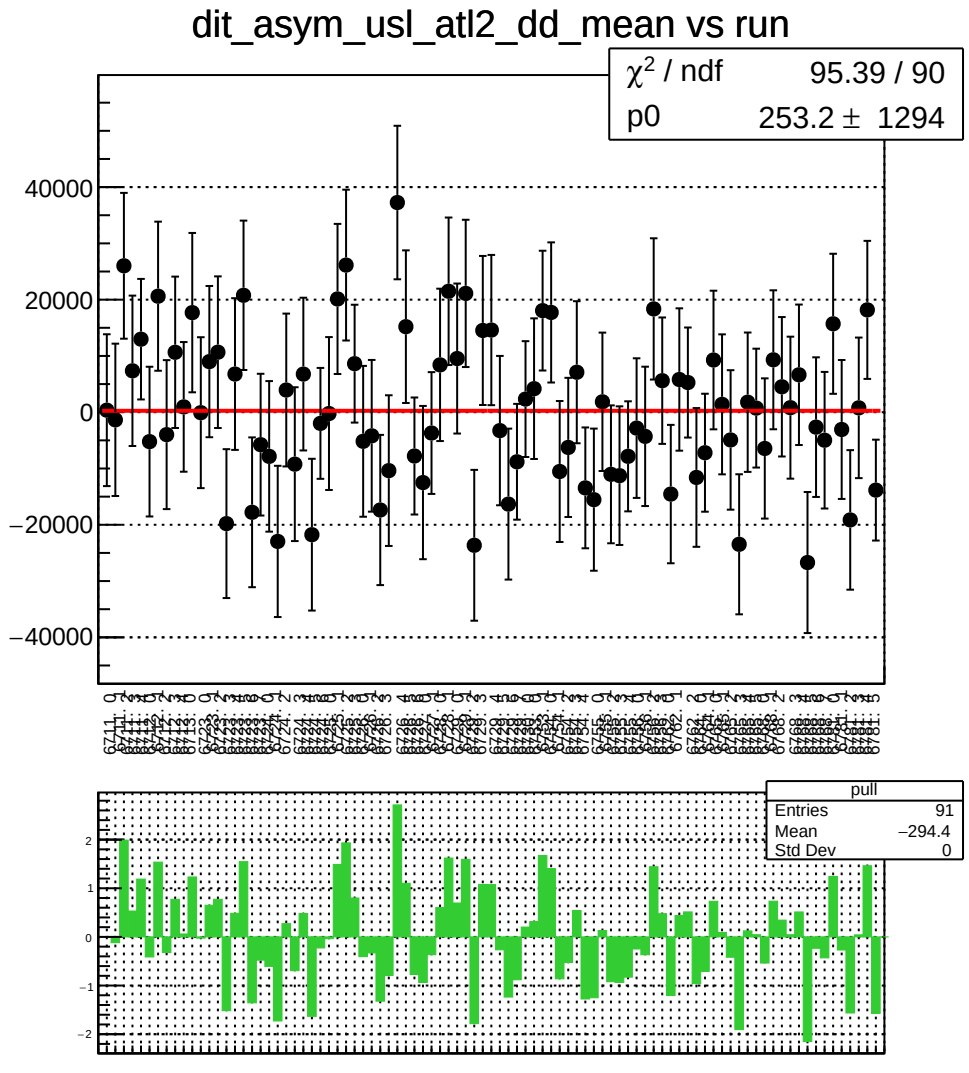

pull1D
Entries 91
Mean 0.008402
Std Dev 0.9799
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

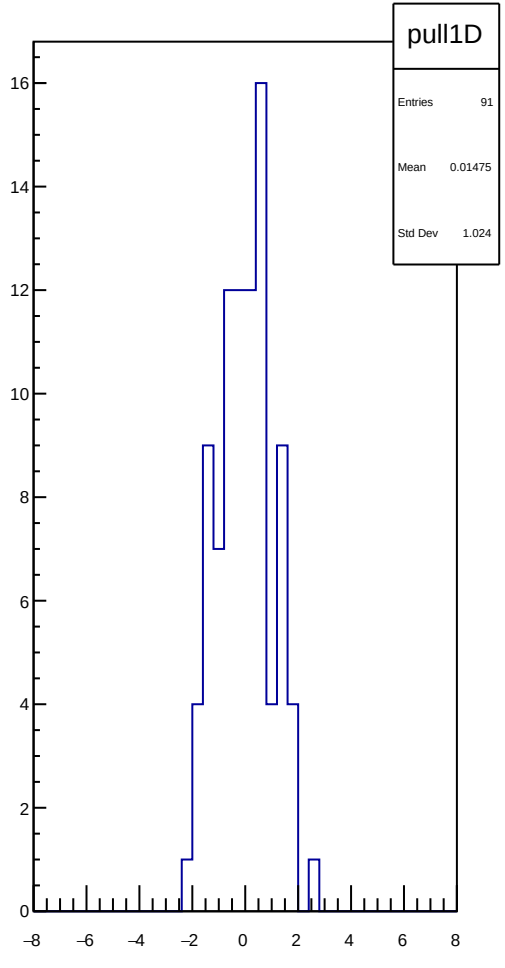

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 1460 / 90
p0 1187 ± 0.8843
1260
1240
1220
1200
1180
1160
1140
1120

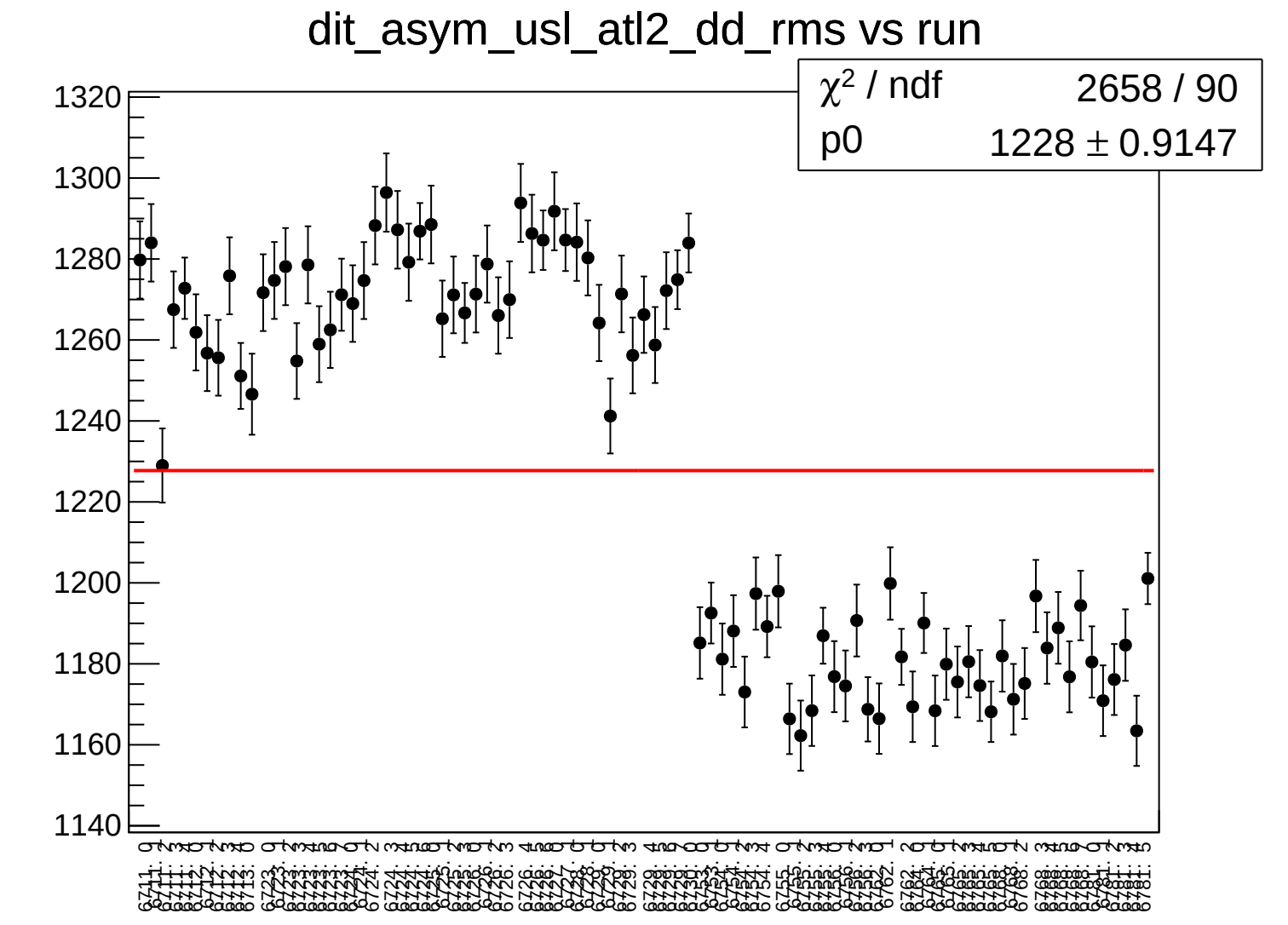

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 81.72 / 90
p0 575.4 ± 3738
100
50
0
−50
−100
−150
pull
Entries 91
Mean −70.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

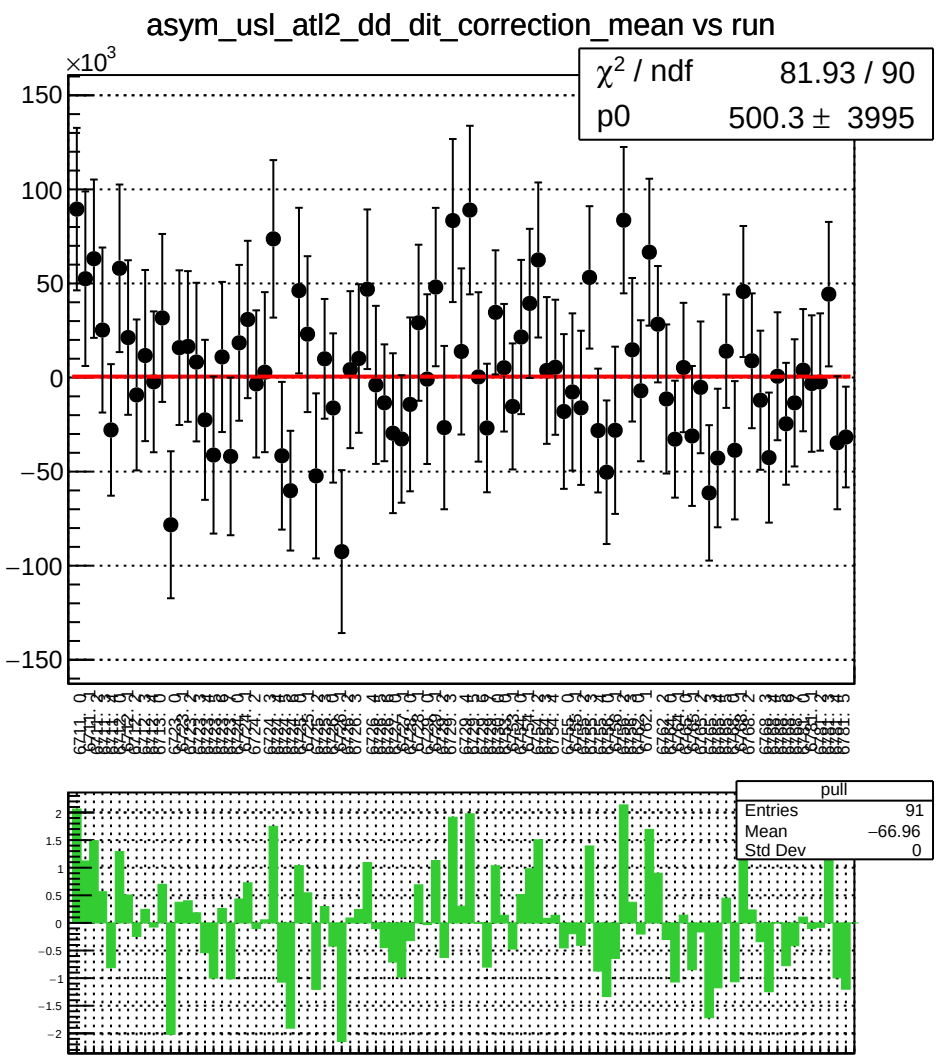

pull1D
Entries 91
Mean 0.03386
Std Dev 0.947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

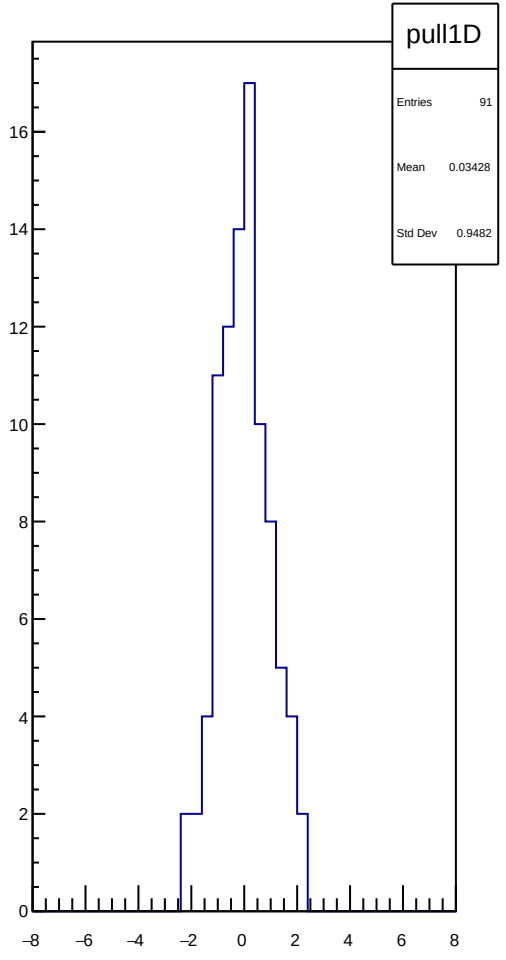

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.073e+04 / 90
p0 3540 ± 2.643
4200
4000
3800
3600
3400
3200
3000
2800

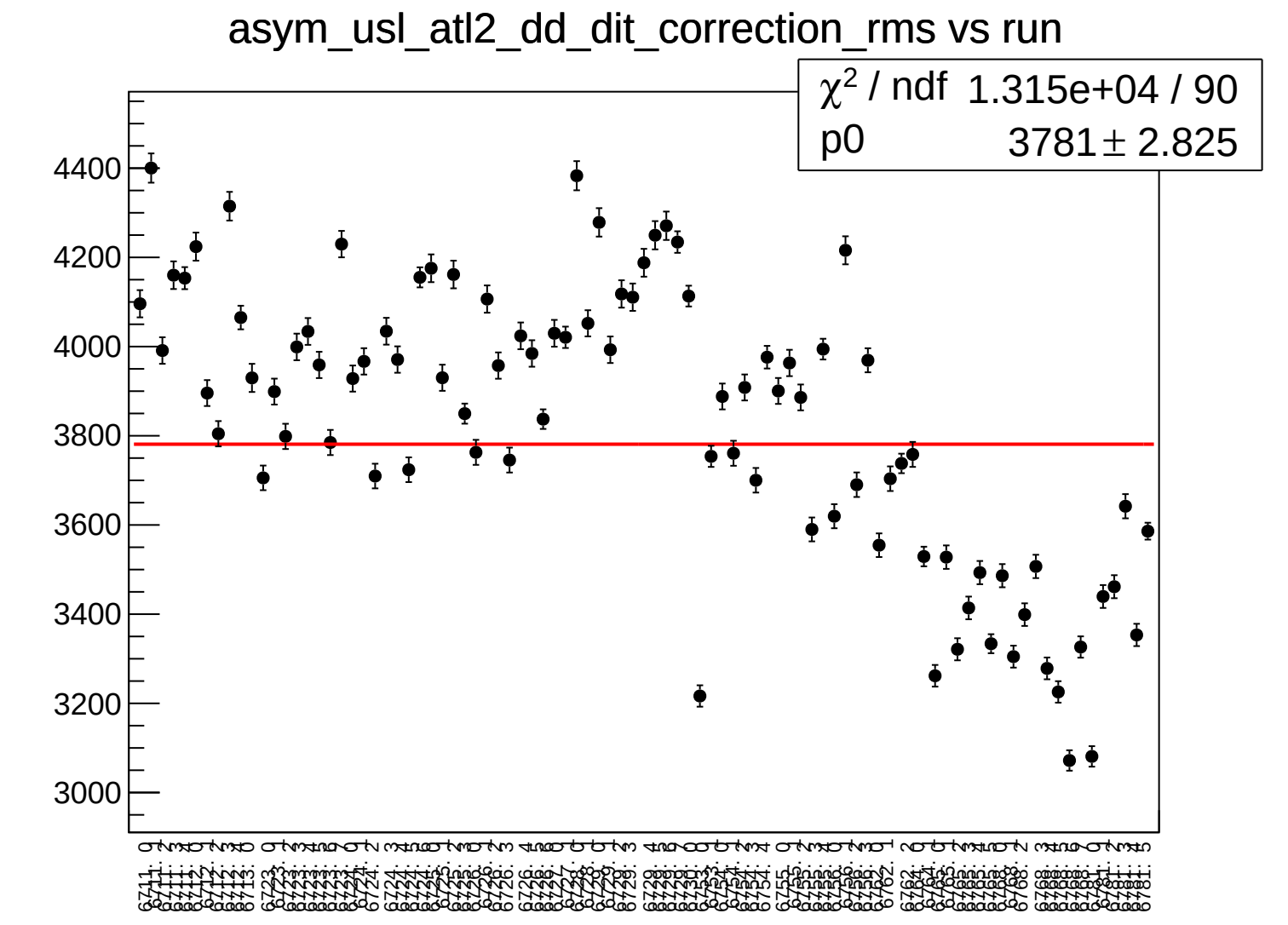

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 95.39 / 90
p0 253.2 ± 1294
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −294.4
Std Dev 0
2
1
0
−1
−2

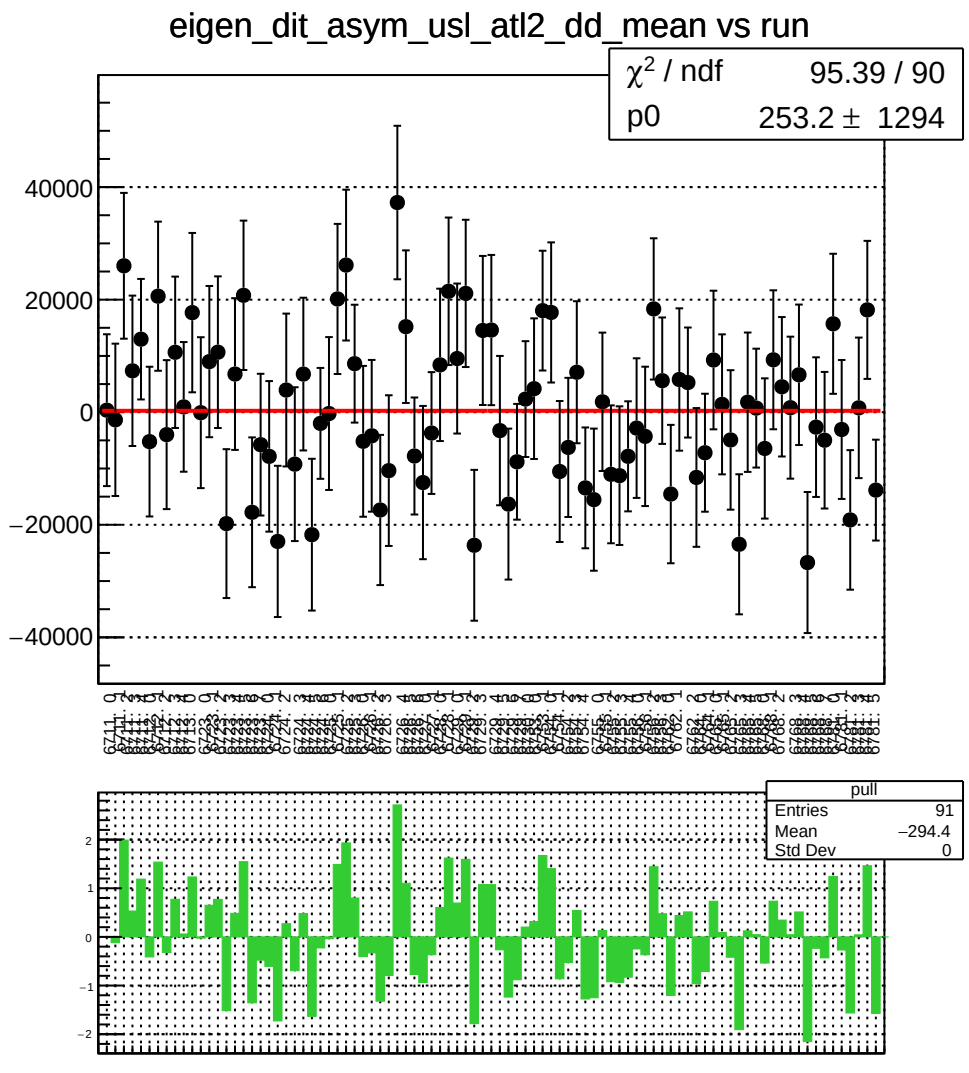

pull1D
Entries 91
Mean 0.01475
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

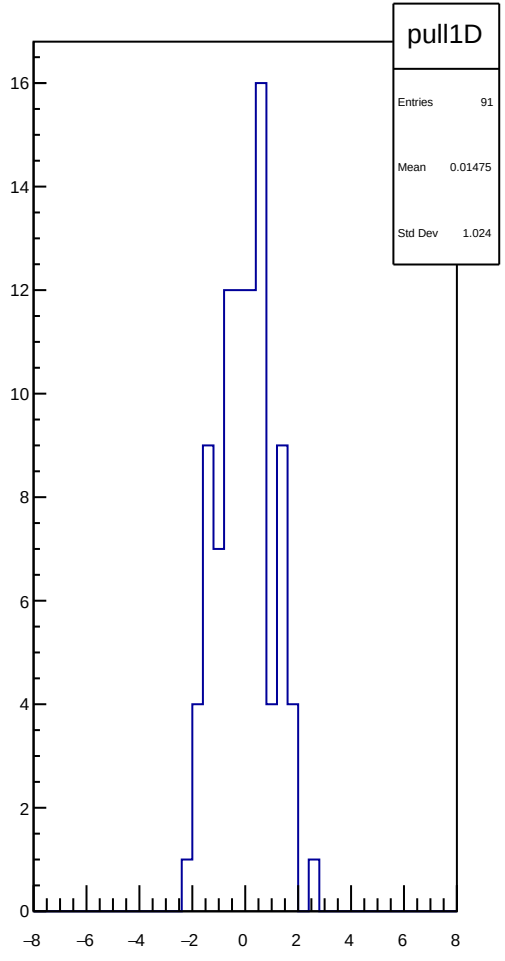

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 2658 / 90
p0 1228 ± 0.9147
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140

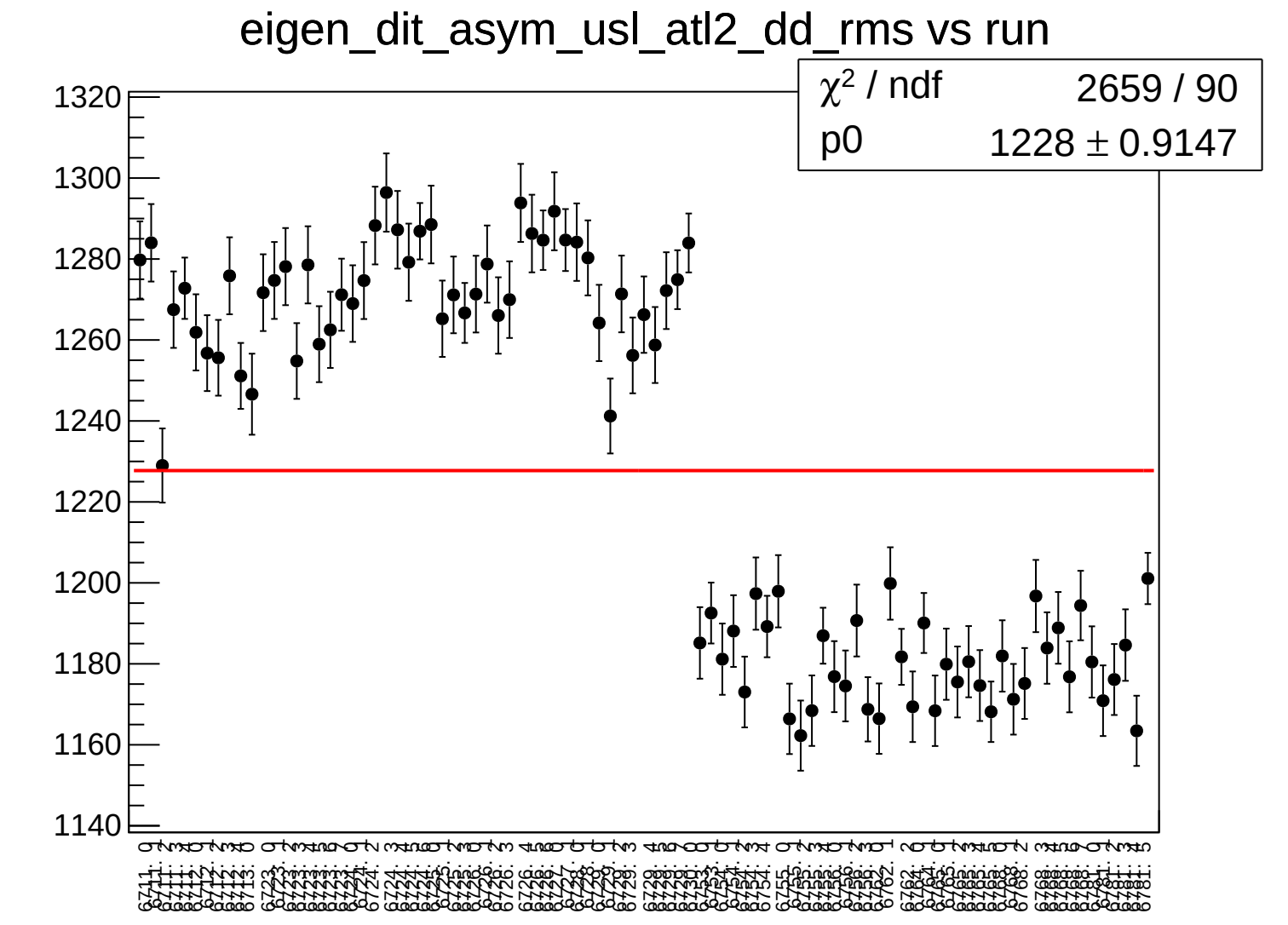

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 81.93 / 90
p0 500.3 ± 3995
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −66.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

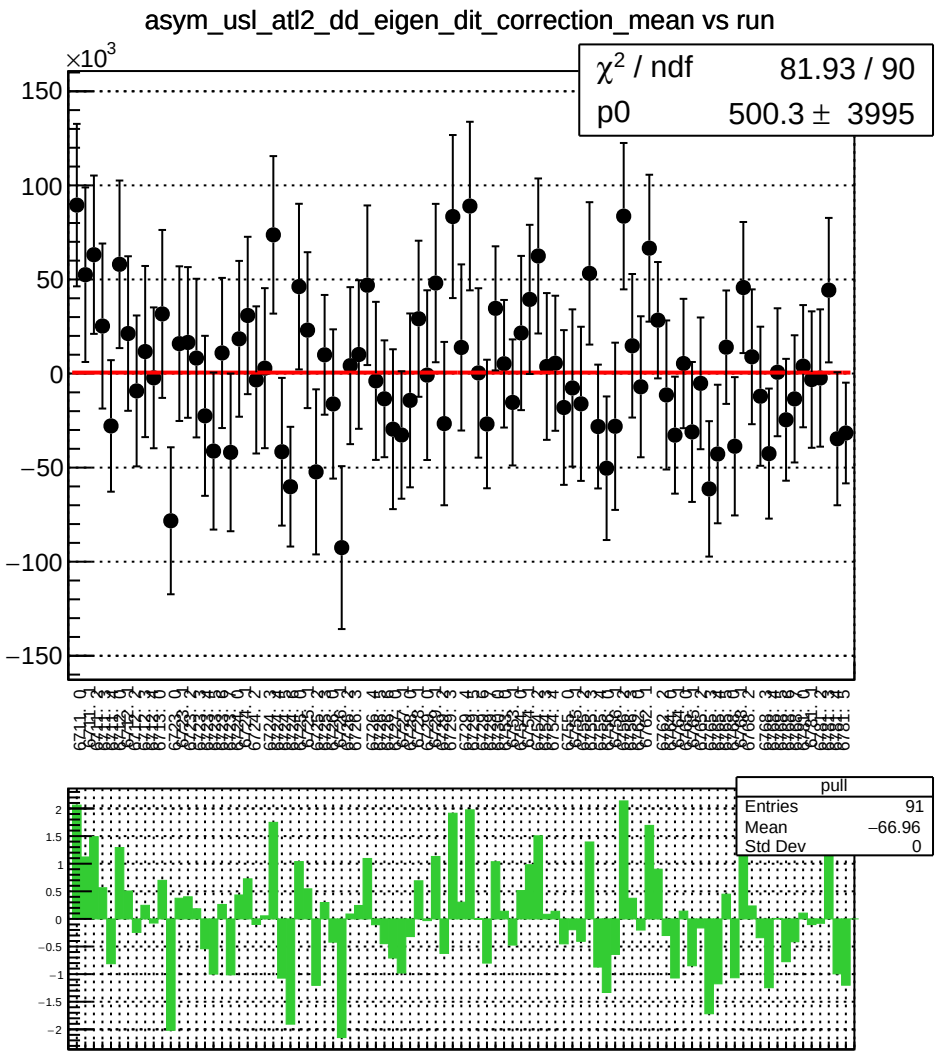

pull1D
Entries 91
Mean 0.03428
Std Dev 0.9482
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

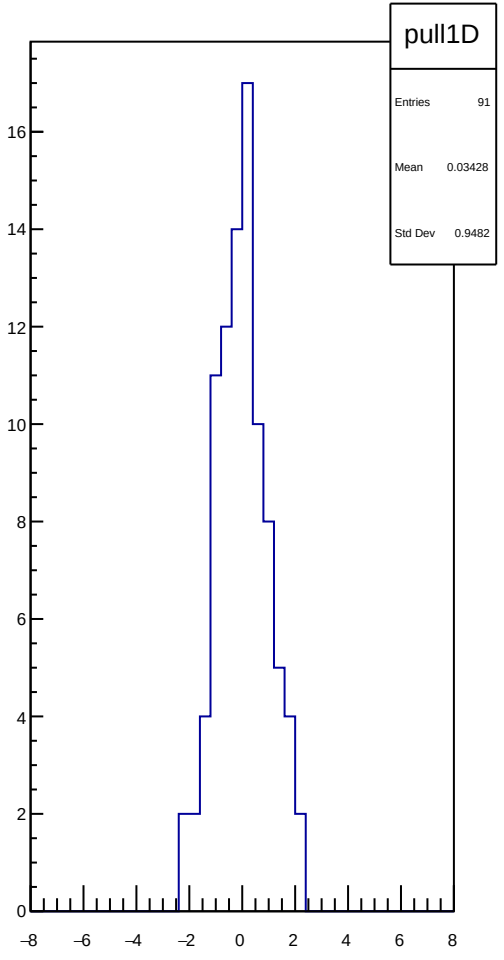

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 1.315e+04 / 90
p0 3781 ± 2.825
4400
4200
4000
3800
3600
3400
3200
3000

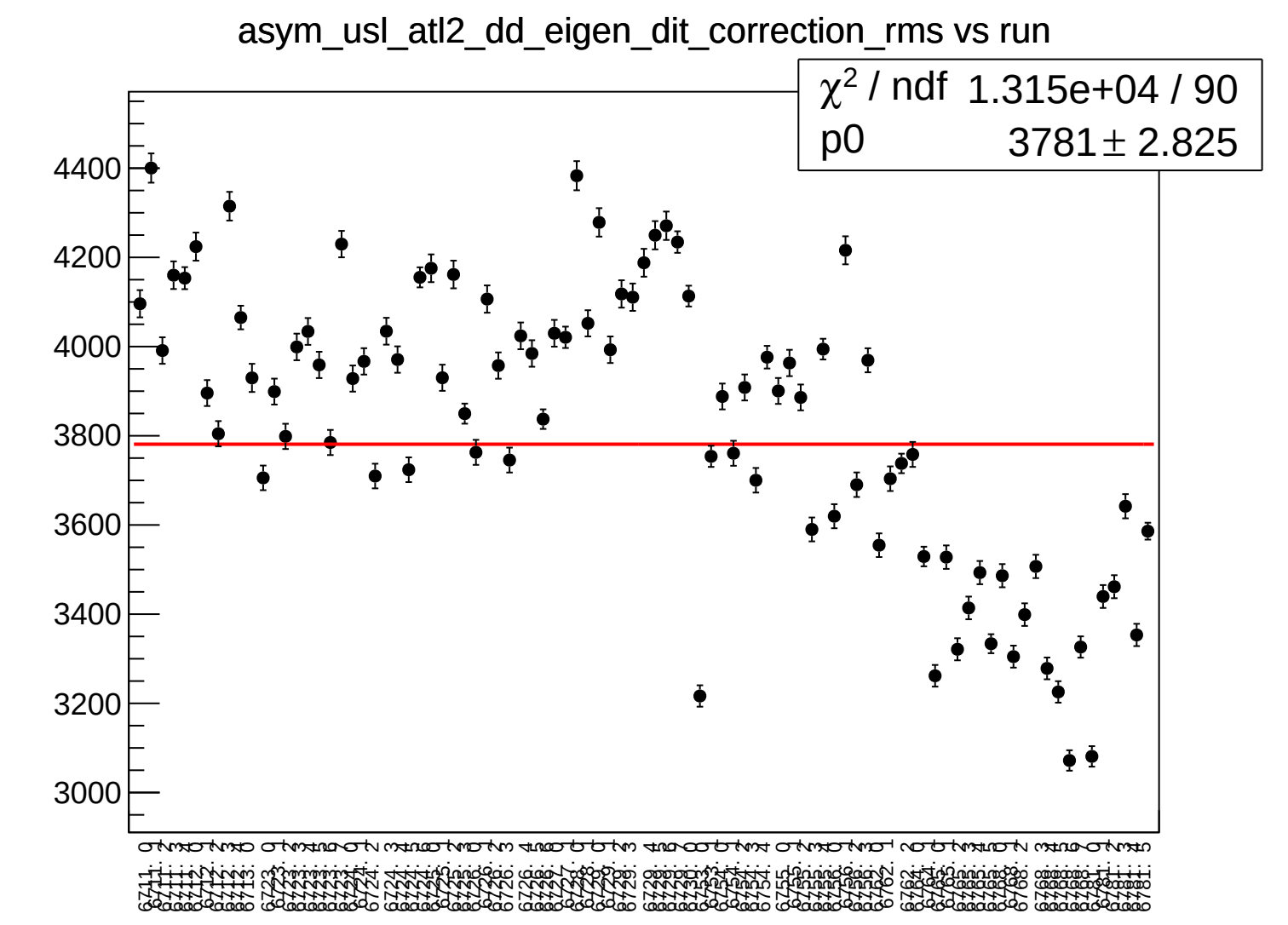

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 95.39 / 90
p0 253.2 ± 1294
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −294.4
Std Dev 0
2
1
0
−1
−2

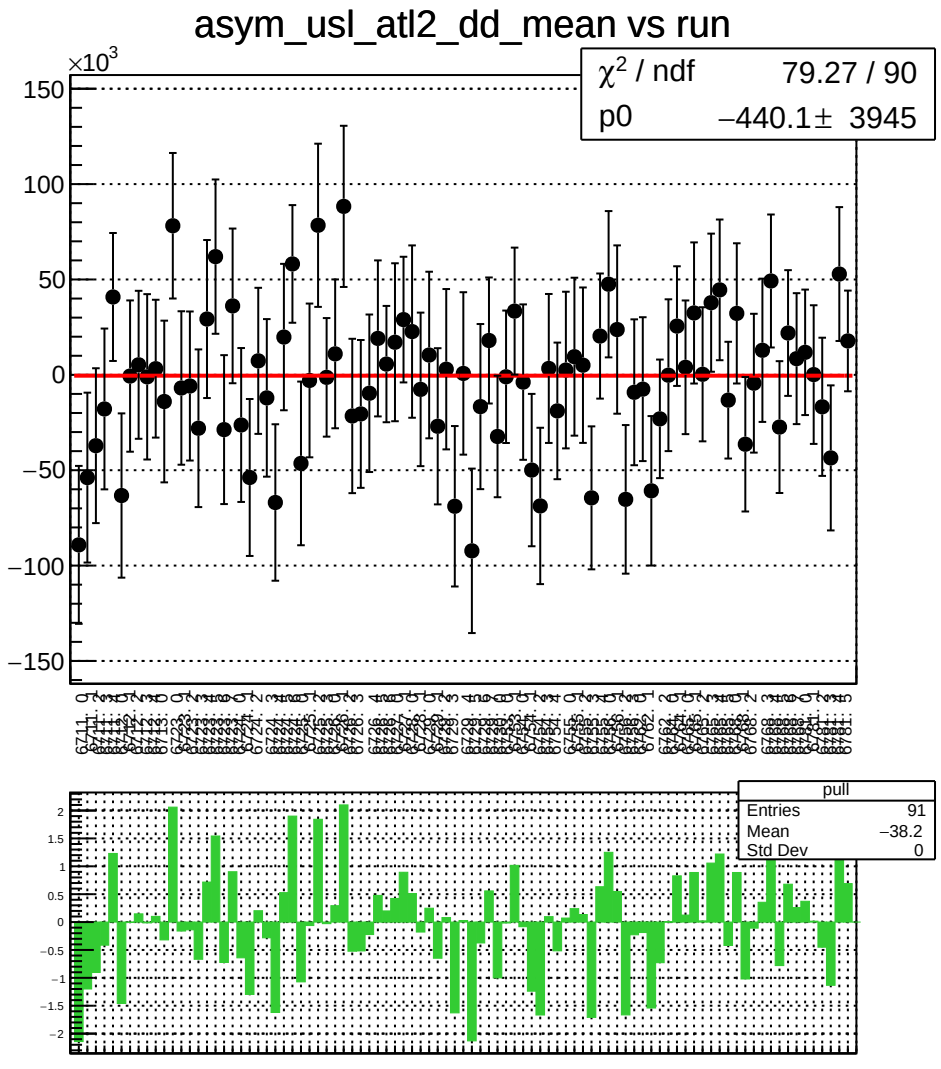

pull1D
Entries 91
Mean 0.01475
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

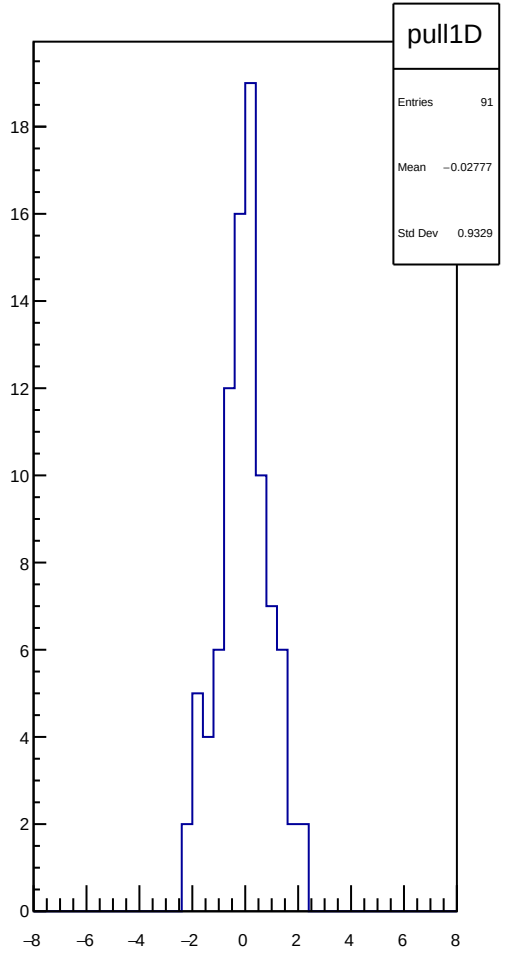

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 2659 / 90
p0 1228 ± 0.9147
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140

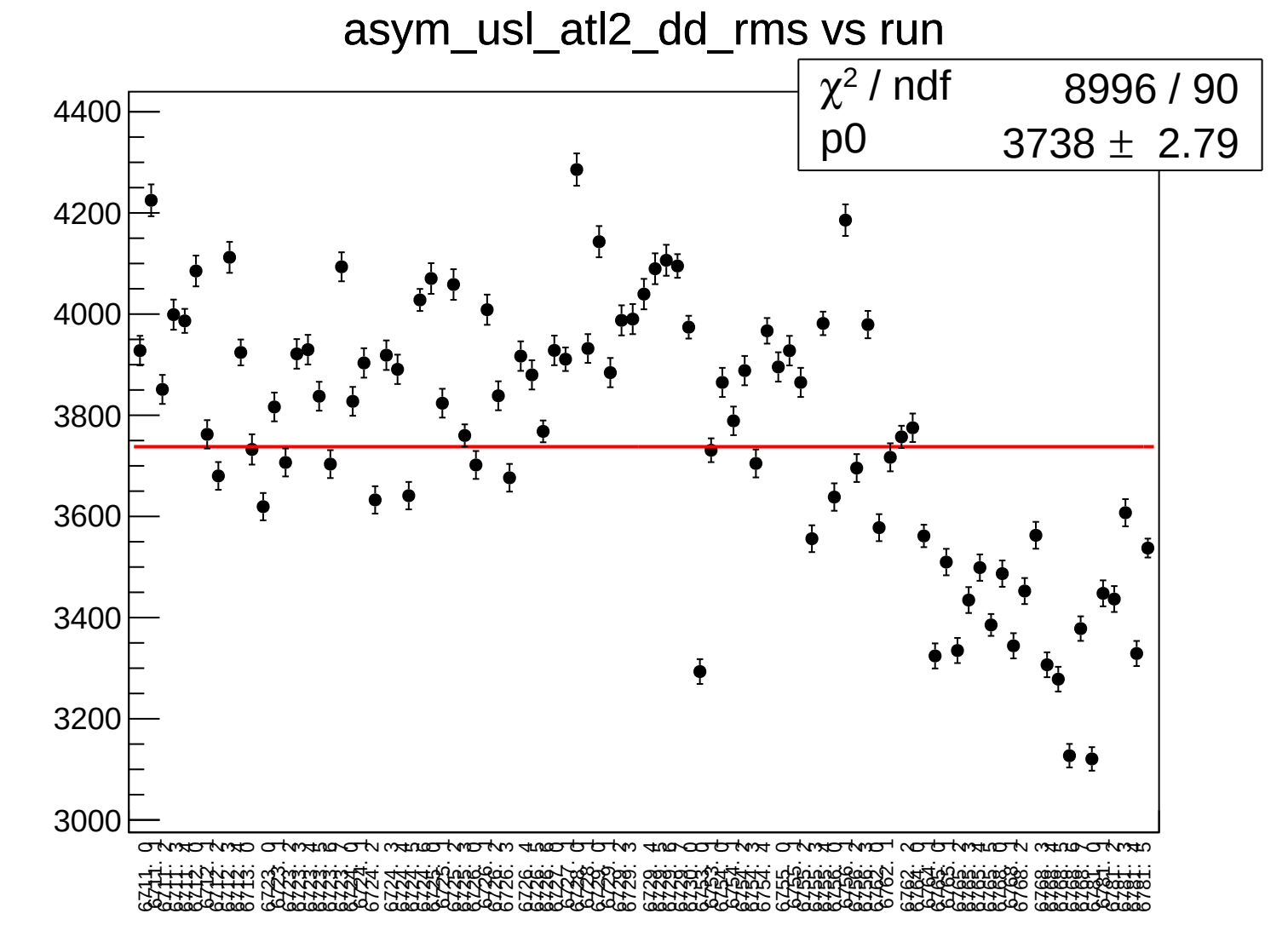

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 81.93 / 90
p0 500.3 ± 3995
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −66.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

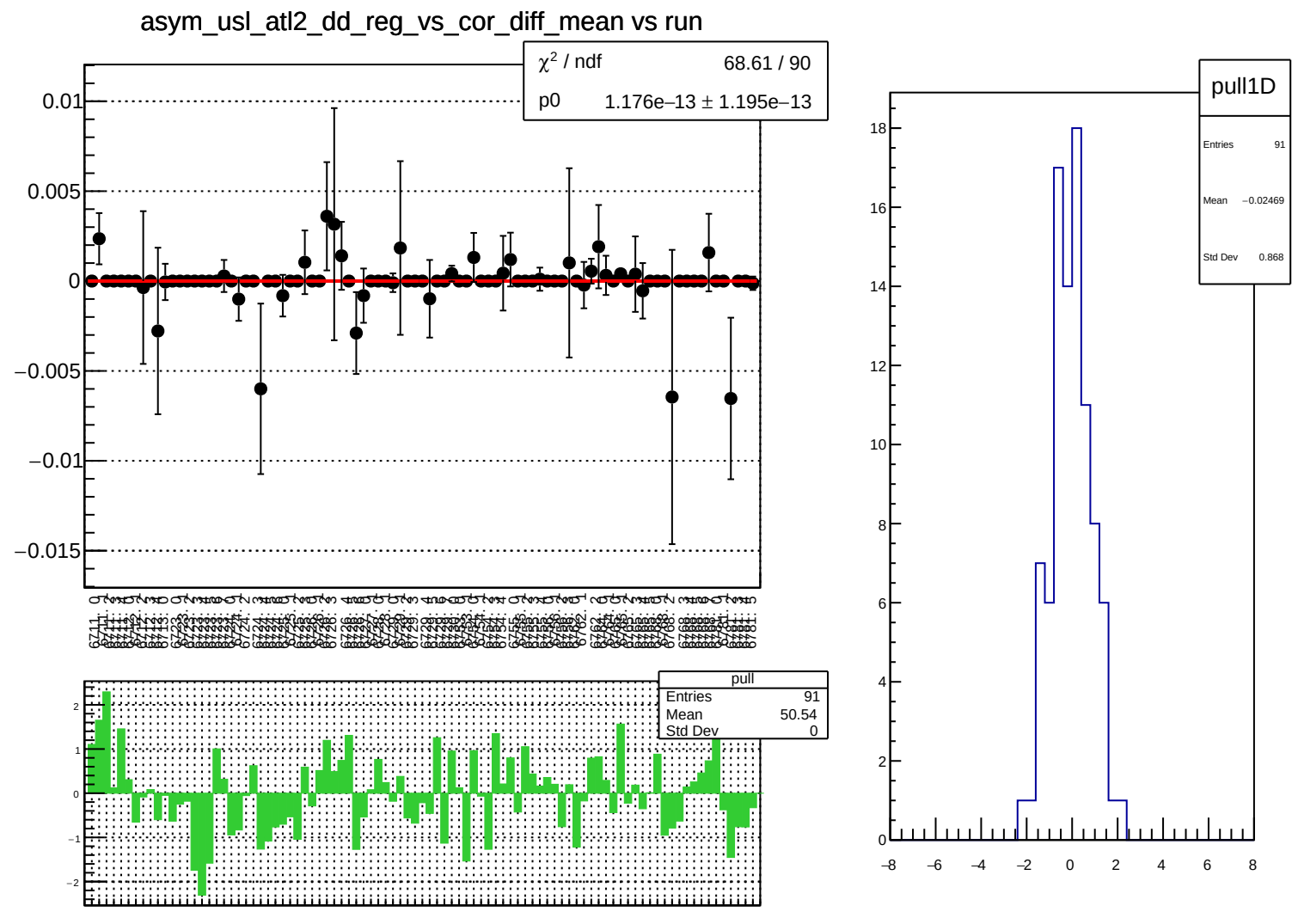

pull1D
Entries 91
Mean 0.03428
Std Dev 0.9482
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

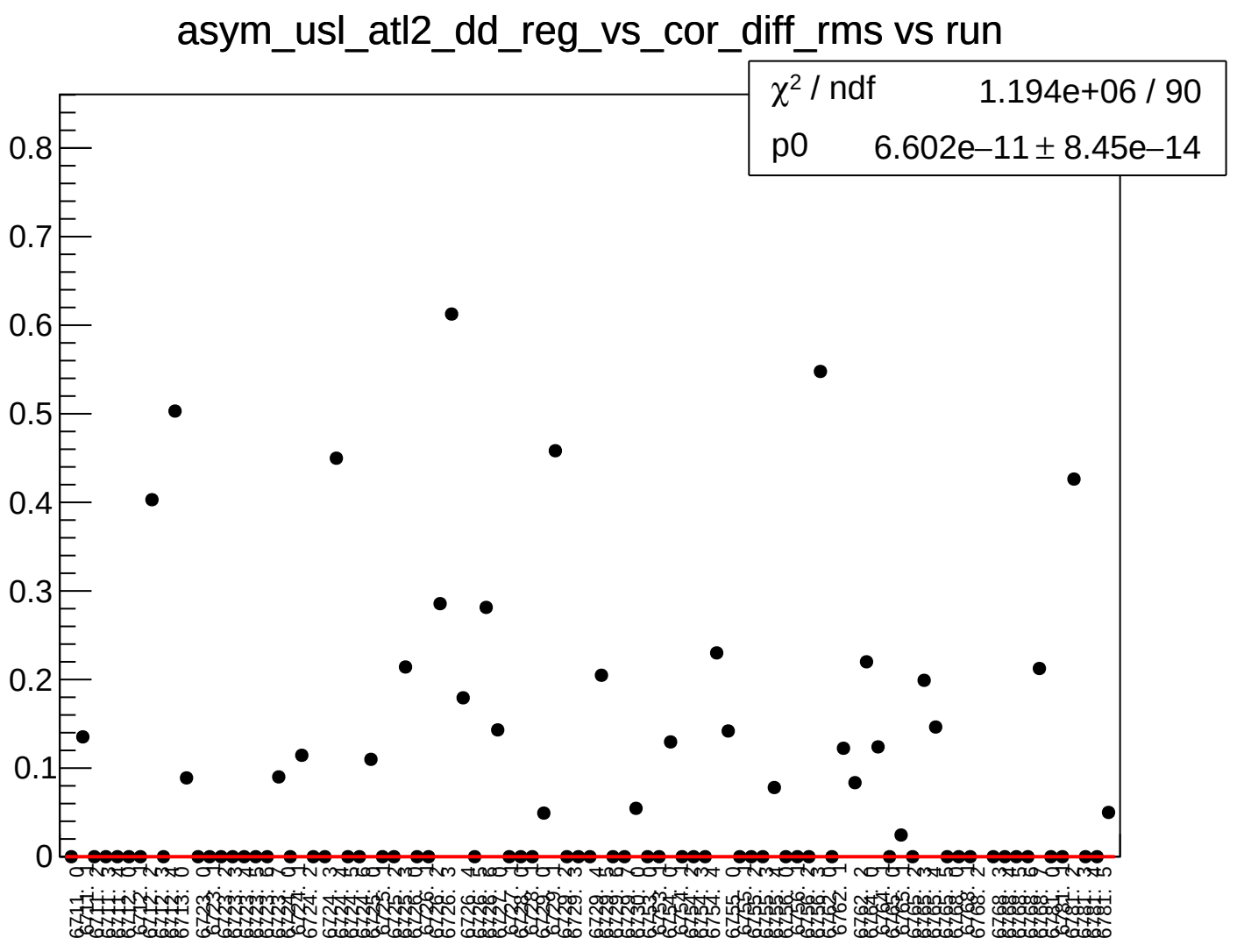

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.315e+04 / 90
p0 3781 ± 2.825
4400
4200
4000
3800
3600
3400
3200
3000

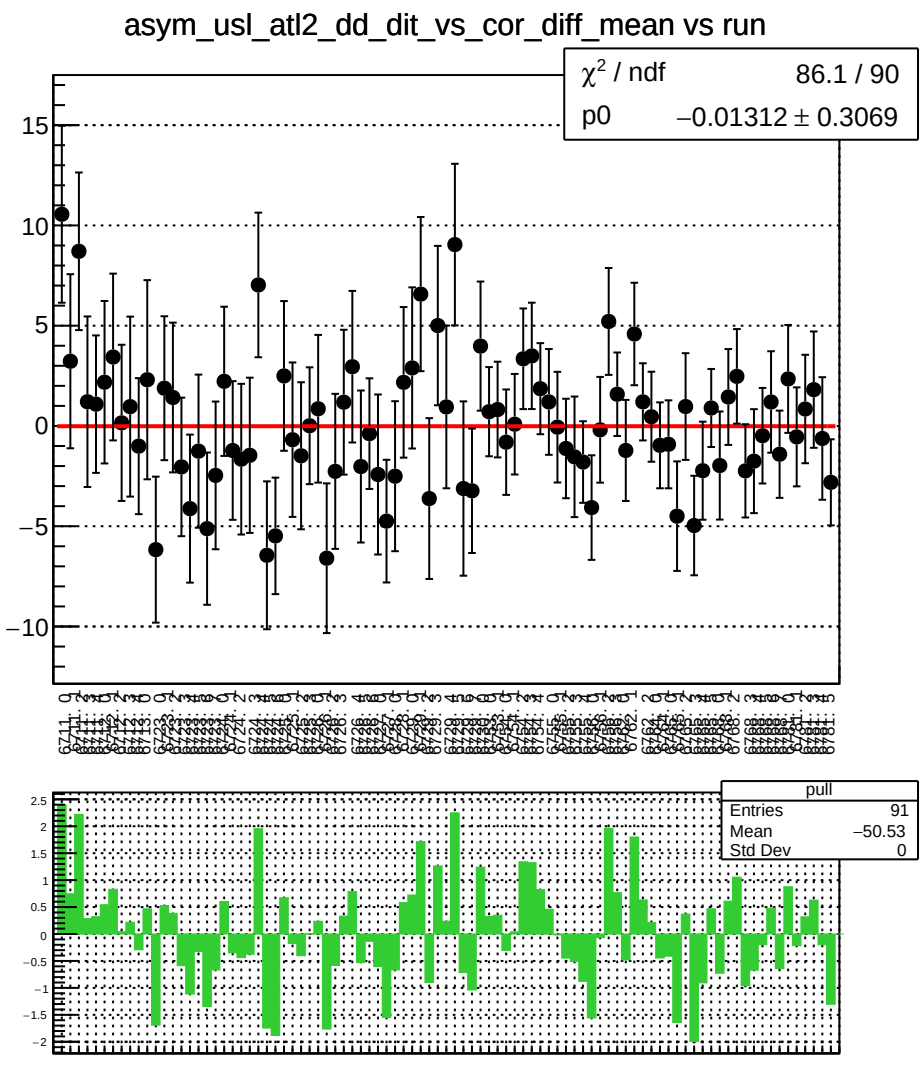

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 79.27 / 90
p0 −440.1± 3945
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −38.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

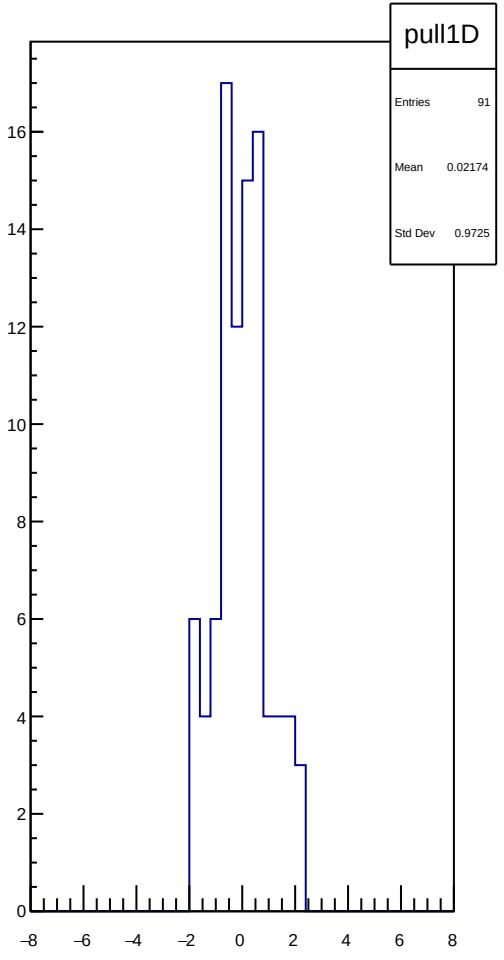

pull1D
Entries 91
Mean −0.02777
Std Dev 0.9329
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

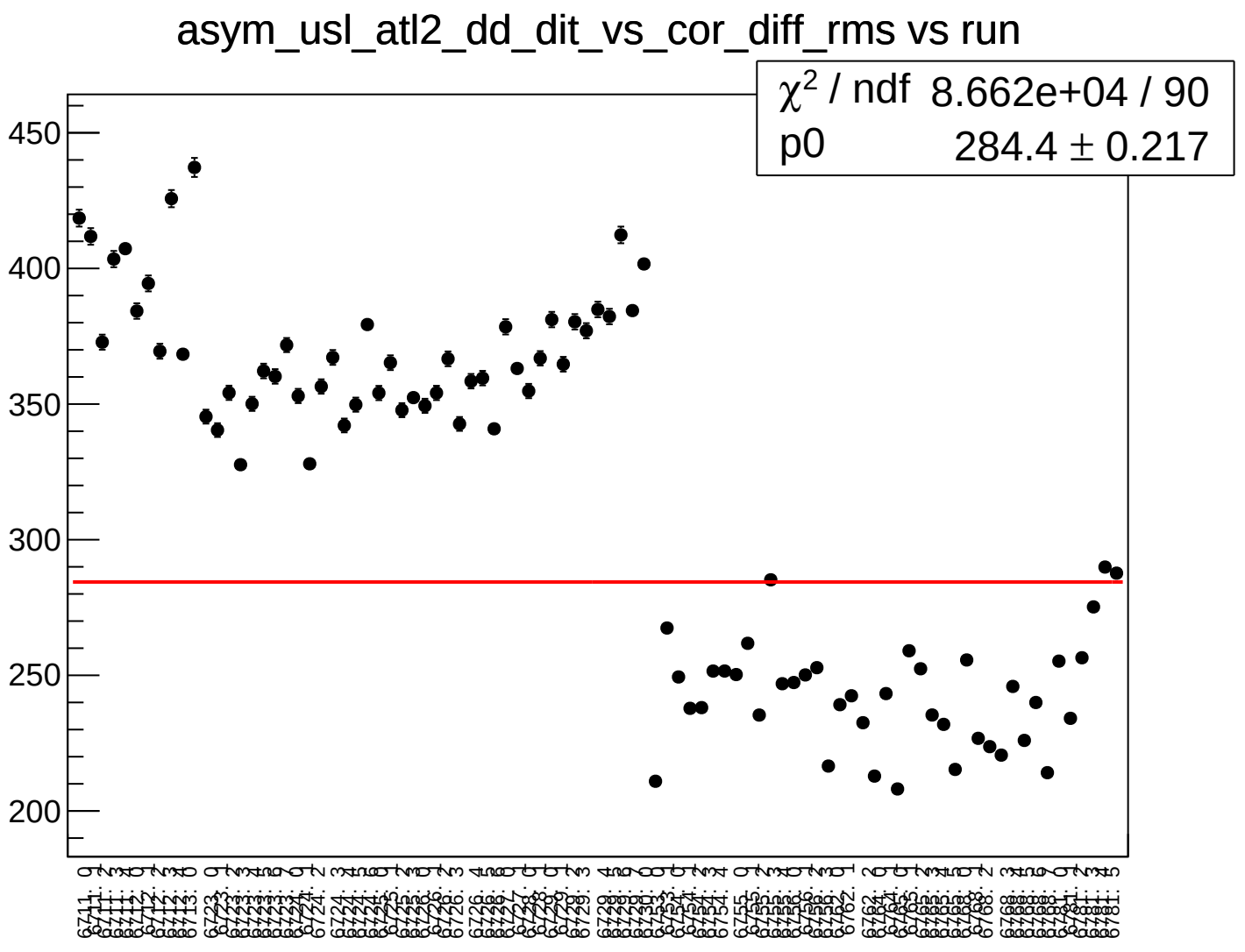

asym_usl_atl2_dd_rms vs run
χ² / ndf 8996 / 90
p0 3738 ± 2.79
4400
4200
4000
3800
3600
3400
3200
3000

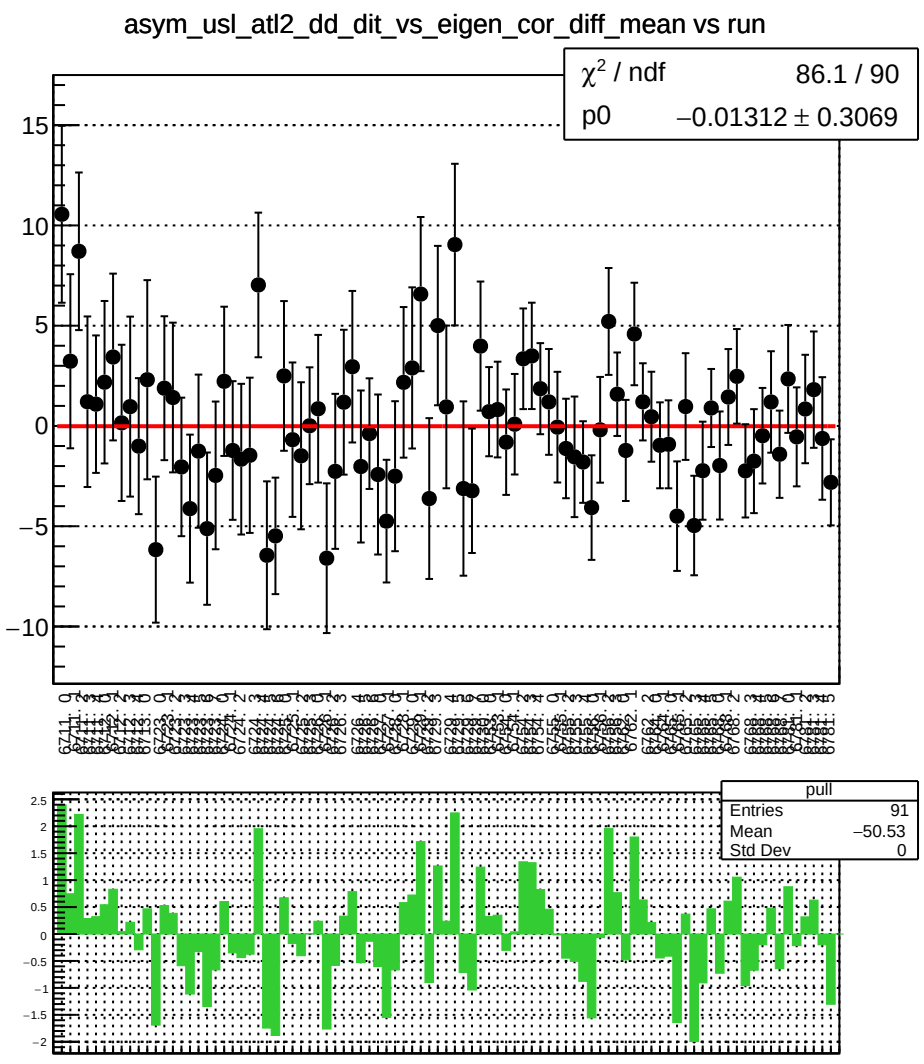

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 68.61 / 90
p0 1.176e−13 ± 1.195e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 91
Mean 50.54
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.02469
Std Dev 0.868
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

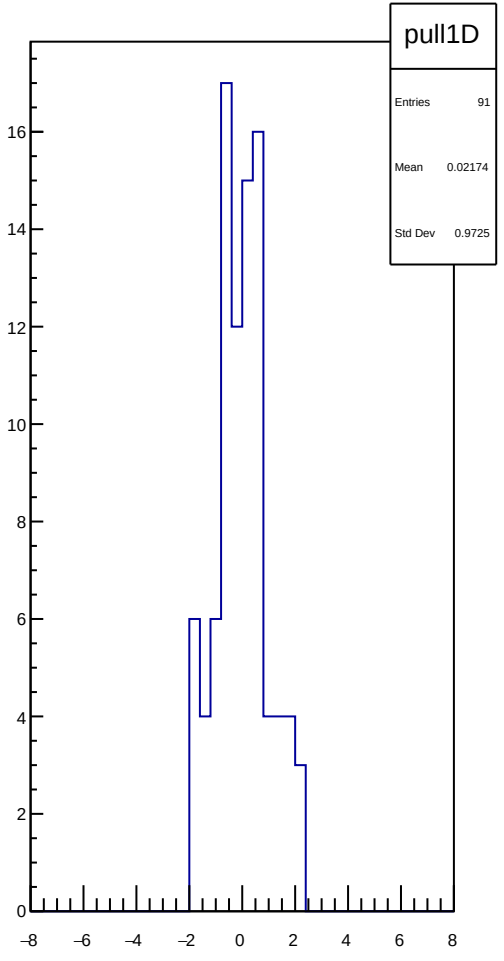

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.194e+06 / 90
p0 6.602e−11 ± 8.45e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

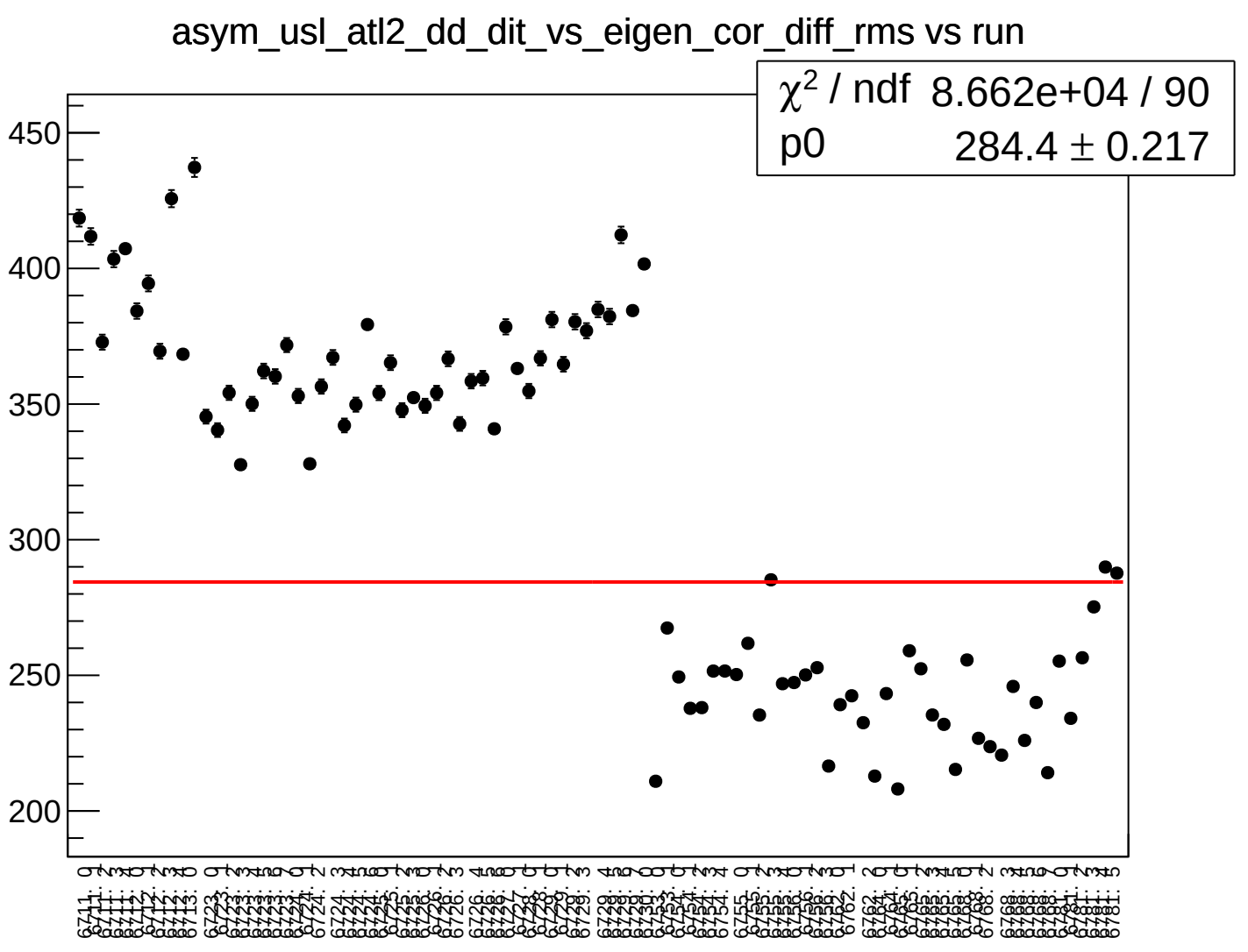

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.1 / 90
p0 −0.01312 ± 0.3069
pull
Entries 91
Mean −50.53
Std Dev 0

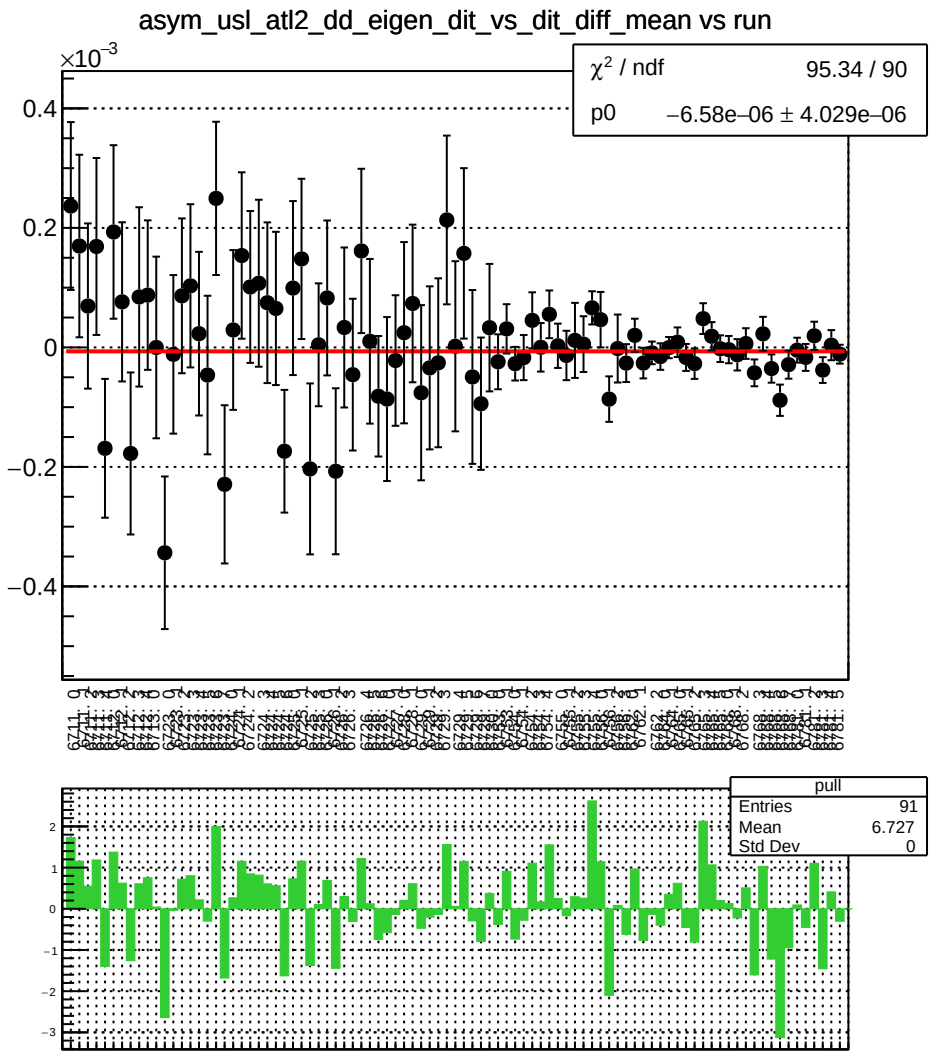

pull1D
Entries 91
Mean 0.02174
Std Dev 0.9725

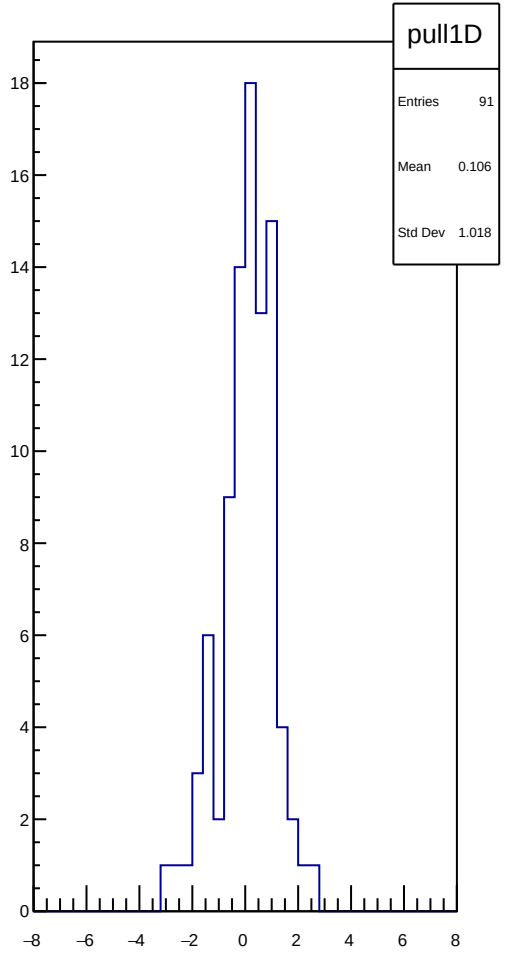

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.662e+04 / 90
p0 284.4 ± 0.217
450
400
350
300
250
200

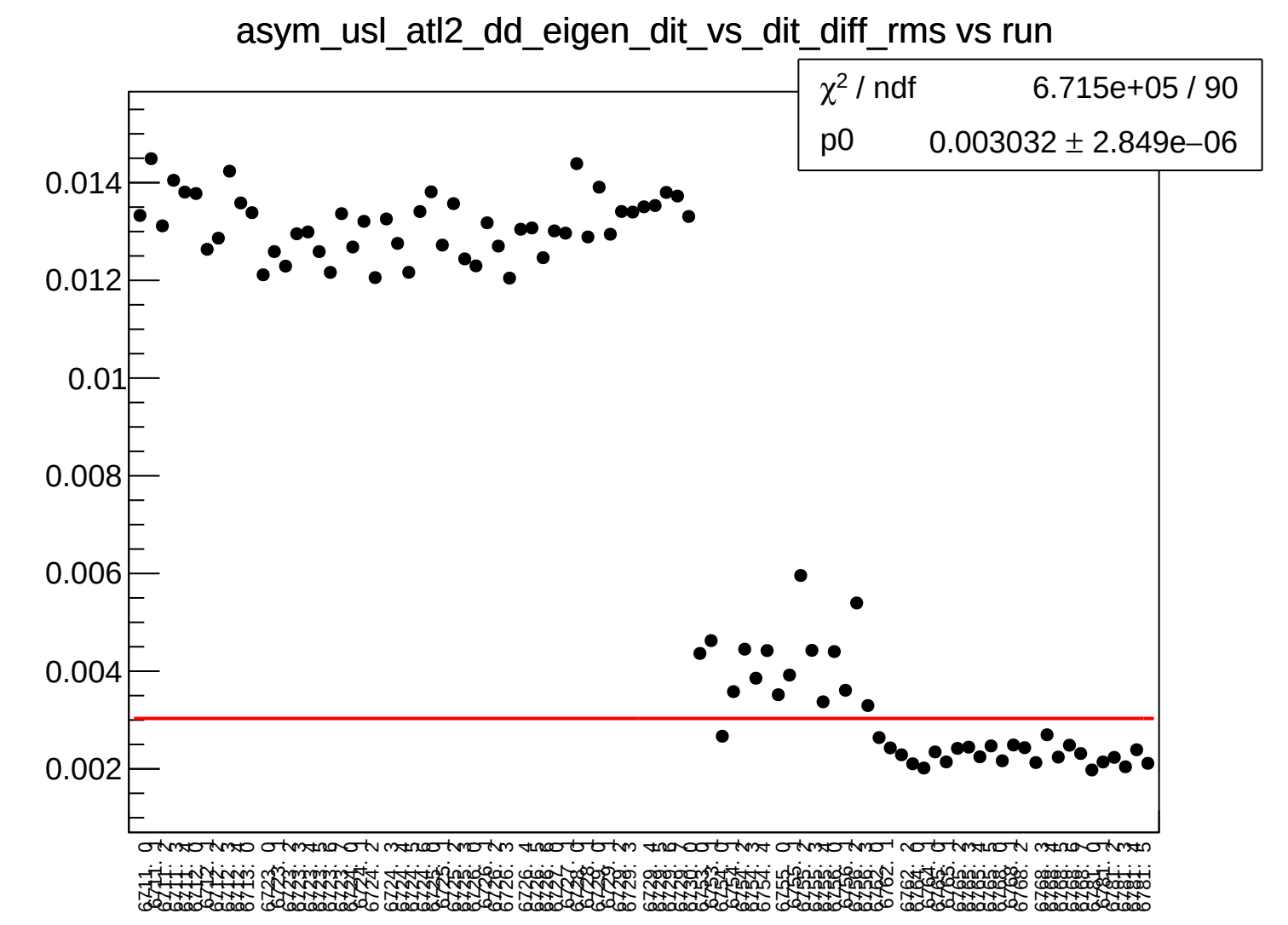

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.1 / 90
p0 −0.01312 ± 0.3069
15
10
5
0
−5
−10
pull
Entries 91
Mean −50.53
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

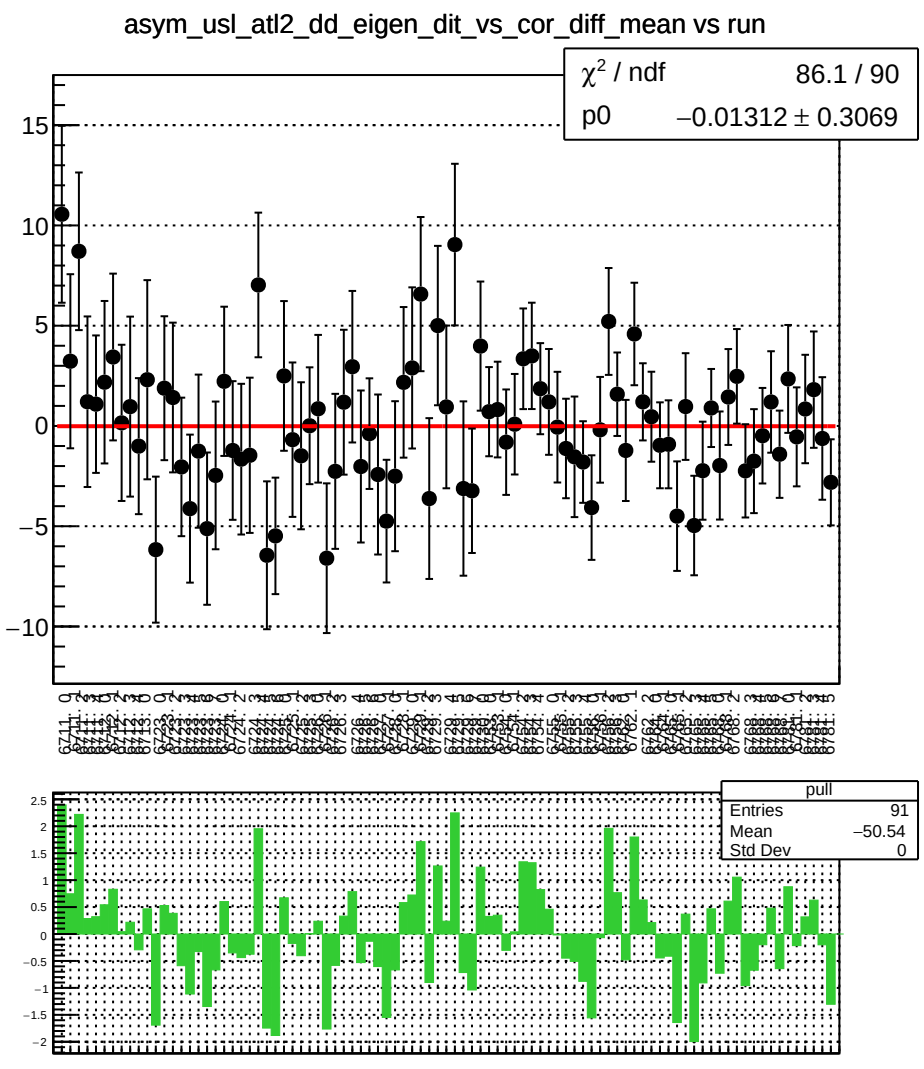

pull1D
Entries 91
Mean 0.02174
Std Dev 0.9725
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

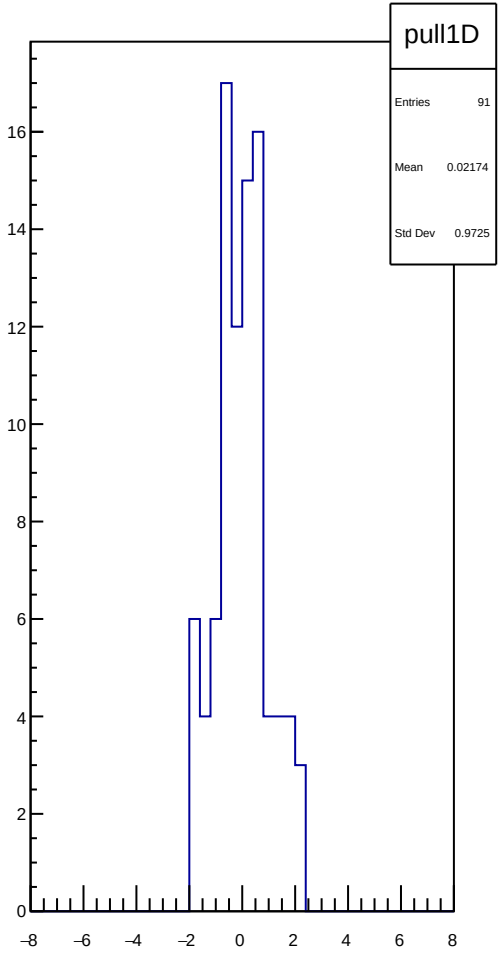

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 8.662e+04 / 90
p0 284.4 ± 0.217
450
400
350
300
250
200

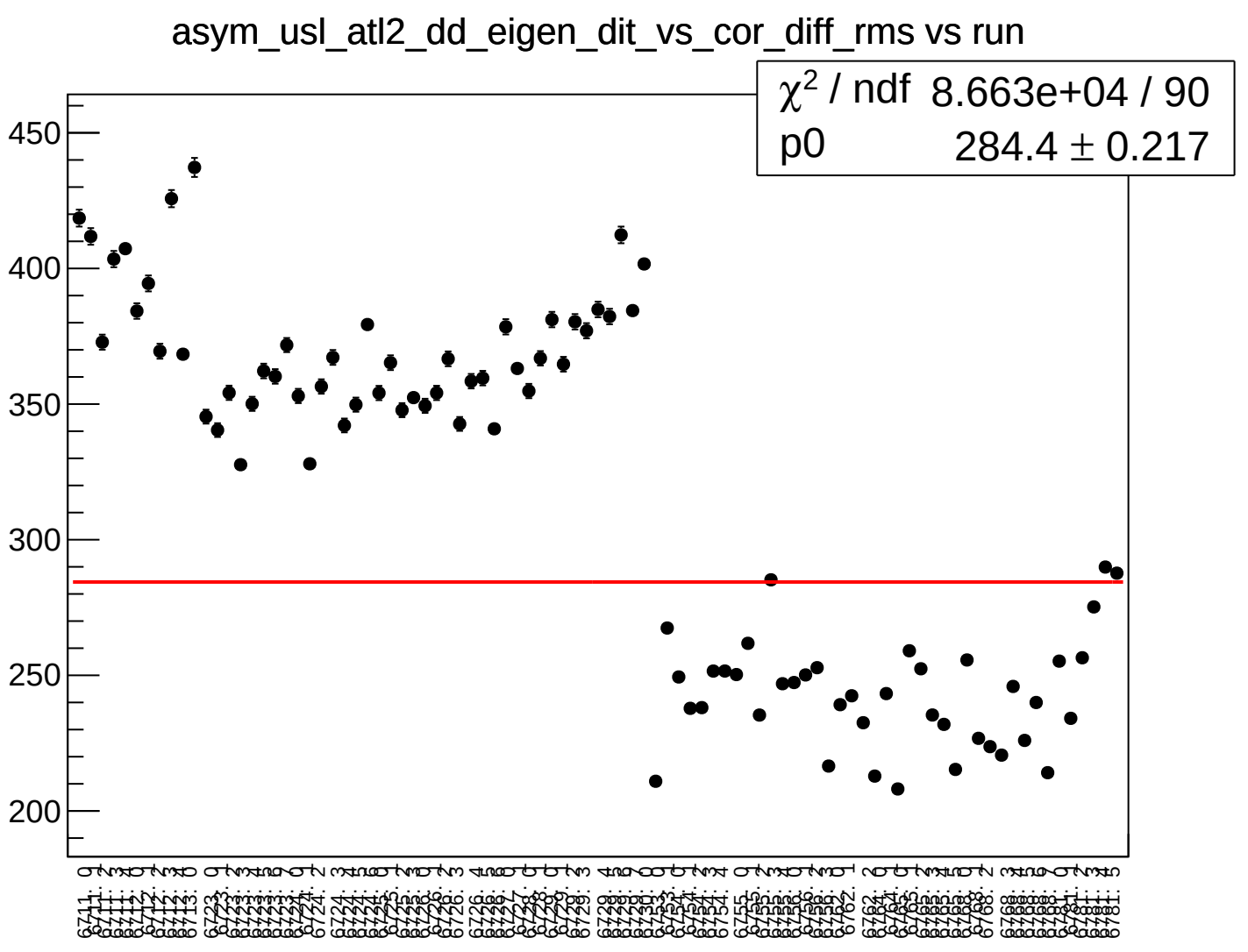

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.34 / 90
p0 −6.58e−06 ± 4.029e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 91
Mean 6.727
Std Dev 0
2
1
0
−1
−2
−3

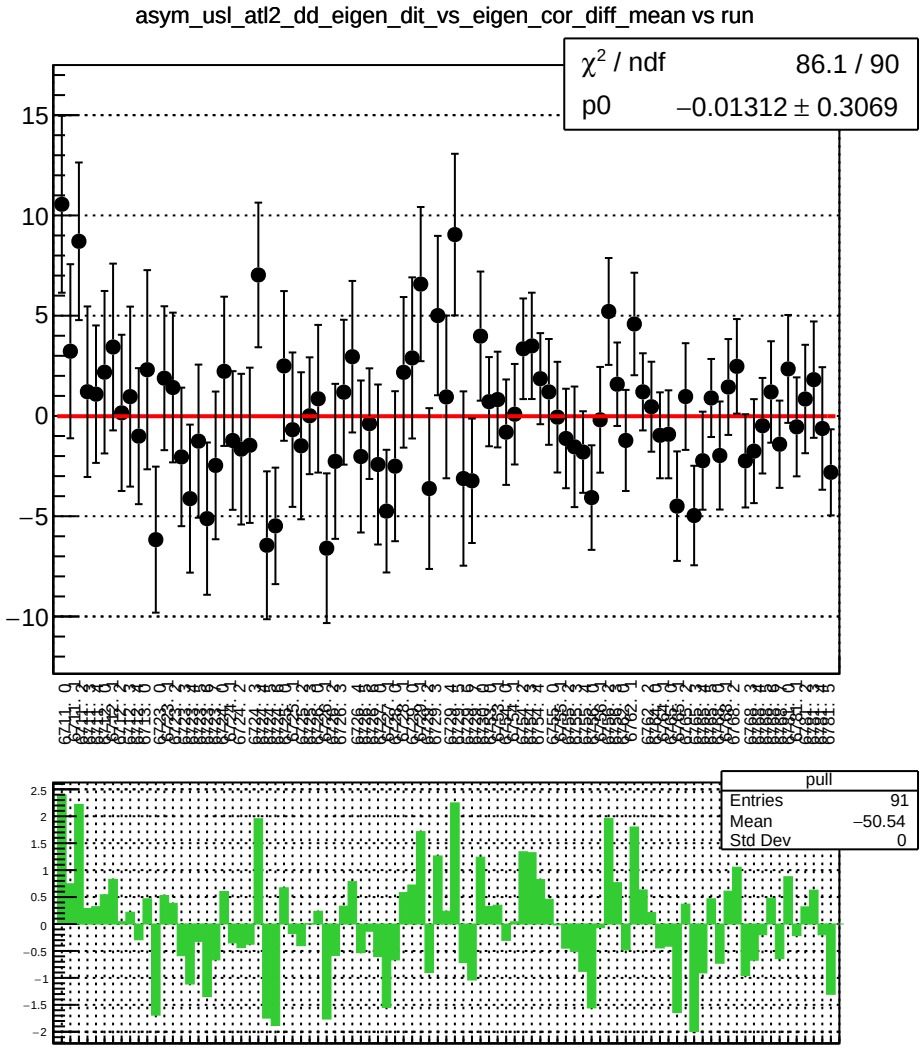

pull1D
Entries 91
Mean 0.106
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

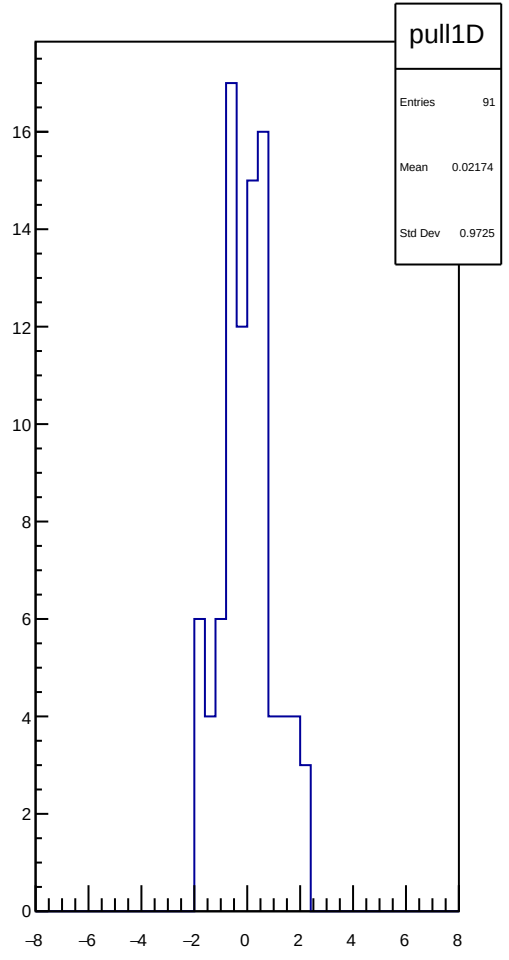

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.715e+05 / 90
p0 0.003032 ± 2.849e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

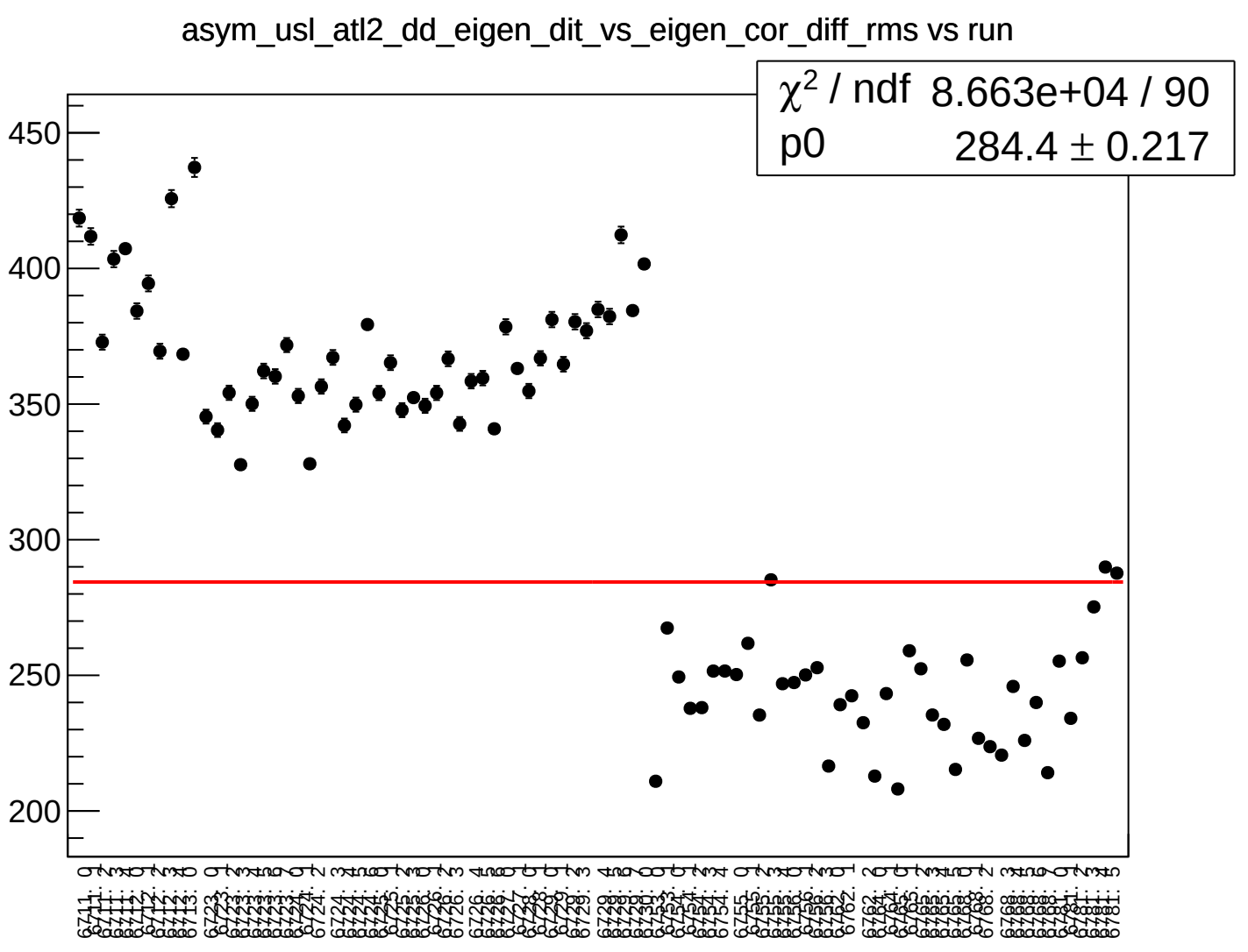

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.1 / 90
p0 −0.01312 ± 0.3069
pull
Entries 91
Mean −50.54
Std Dev 0

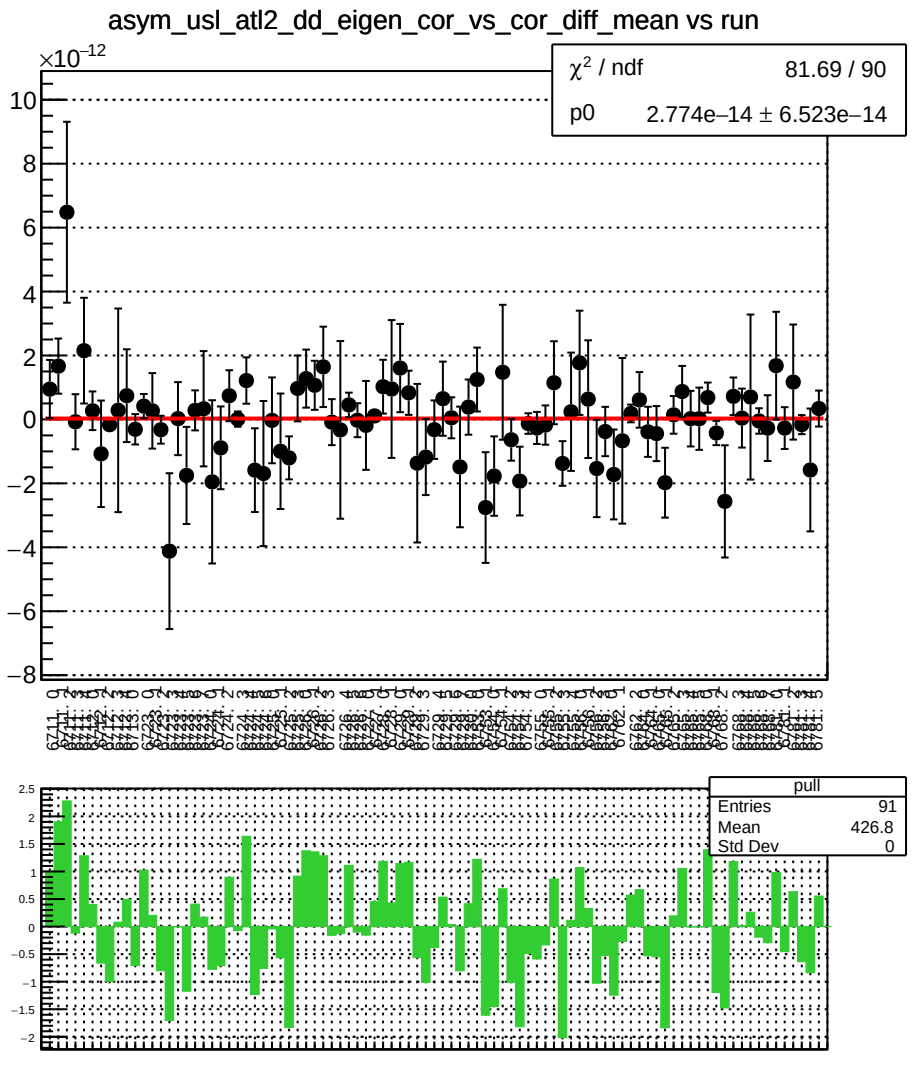

pull1D
Entries 91
Mean 0.02174
Std Dev 0.9725

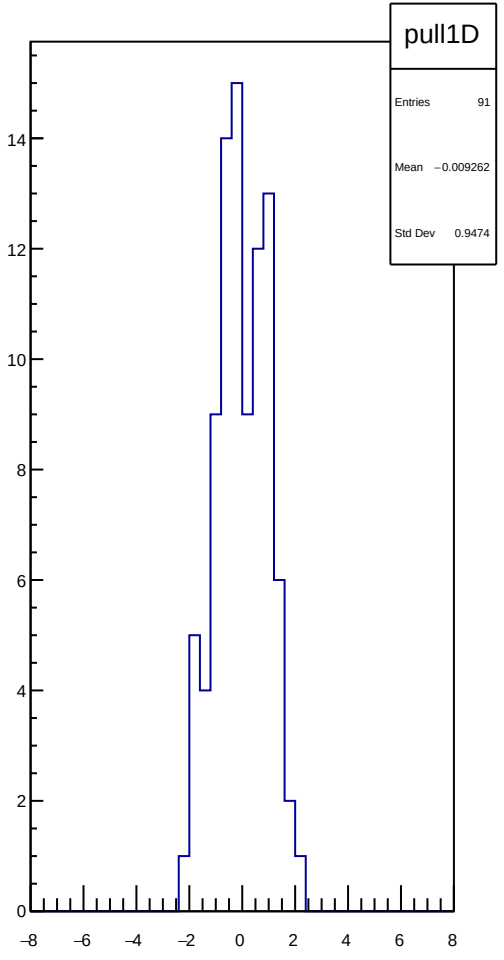

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8.663e+04 / 90
p0 284.4 ± 0.217
450
400
350
300
250
200

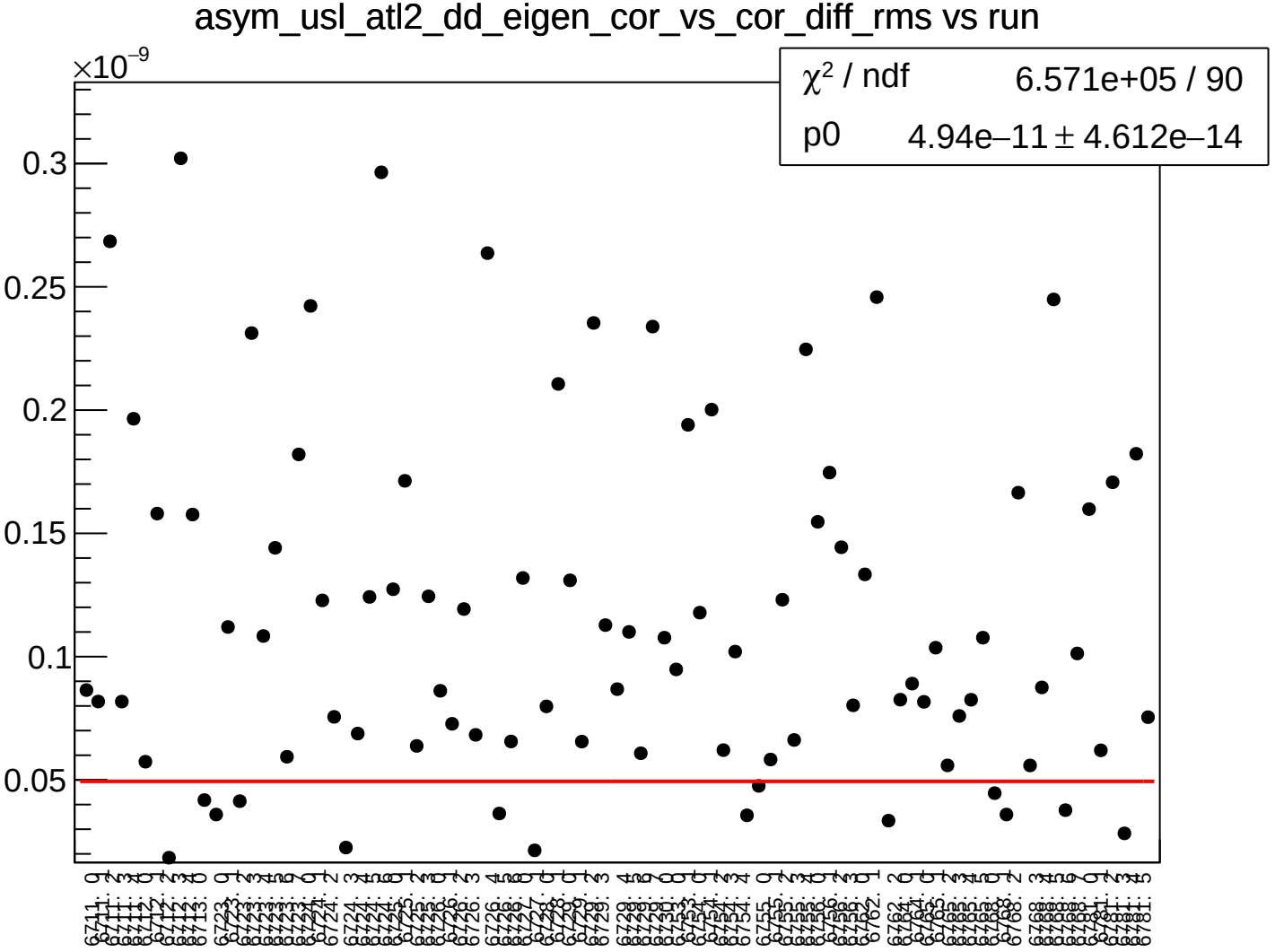

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.1 / 90
p0 −0.01312 ± 0.3069
pull
Entries 91
Mean −50.54
Std Dev 0

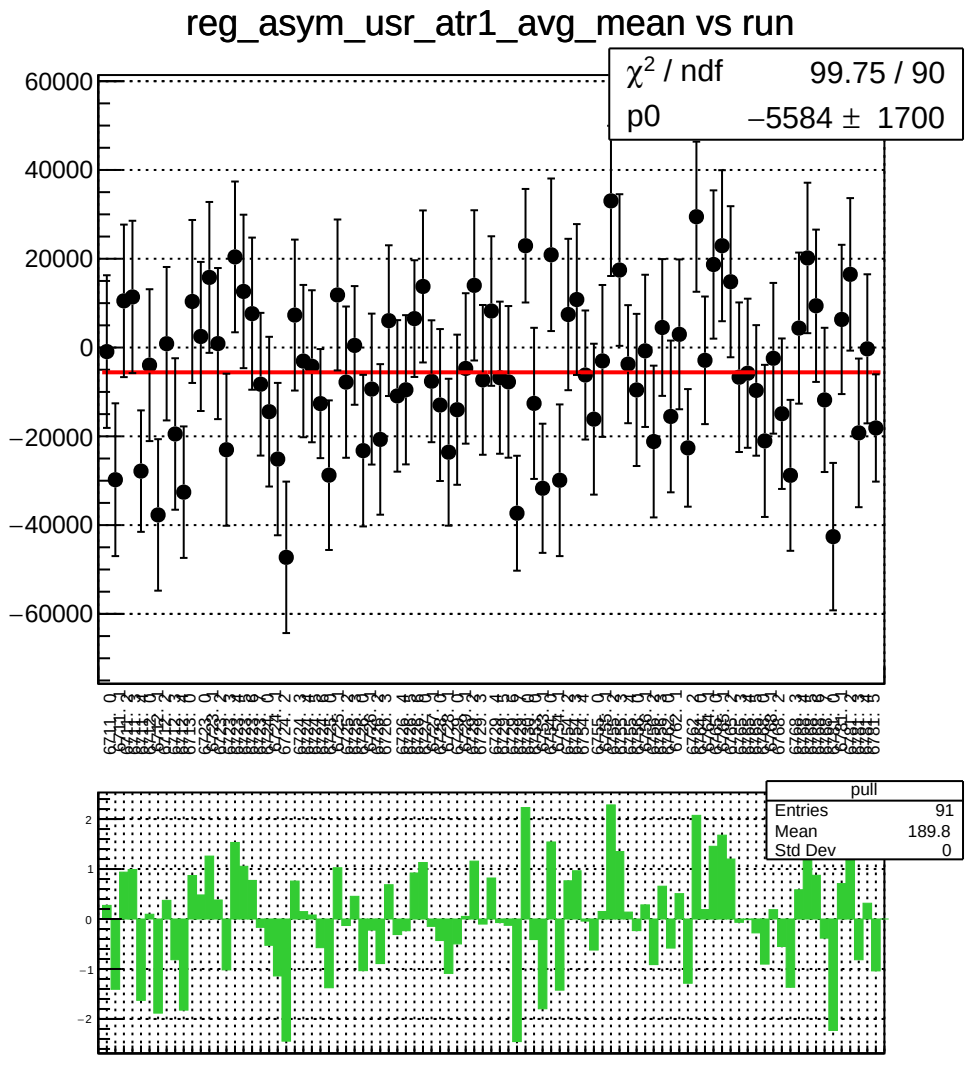

pull1D
Entries 91
Mean 0.02174
Std Dev 0.9725

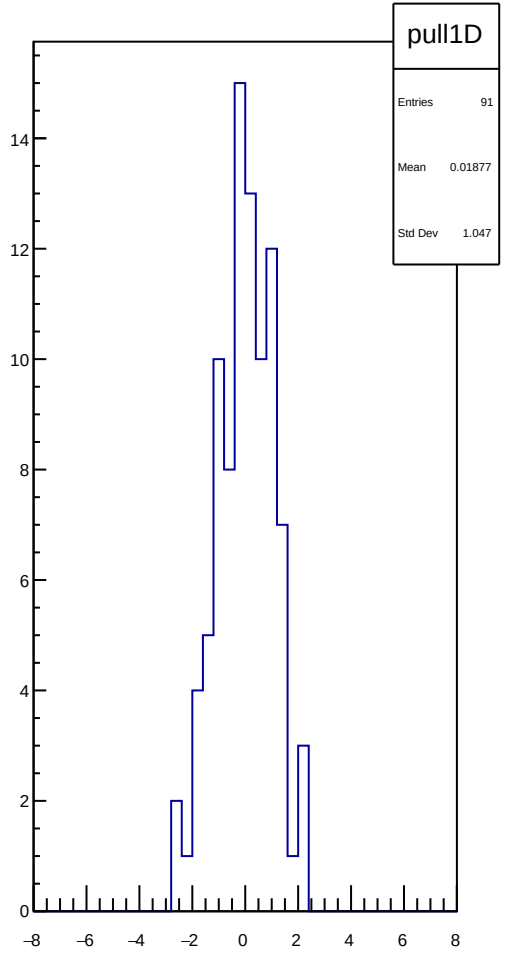

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 8.663e+04 / 90
p0 284.4 ± 0.217
450
400
350
300
250
200

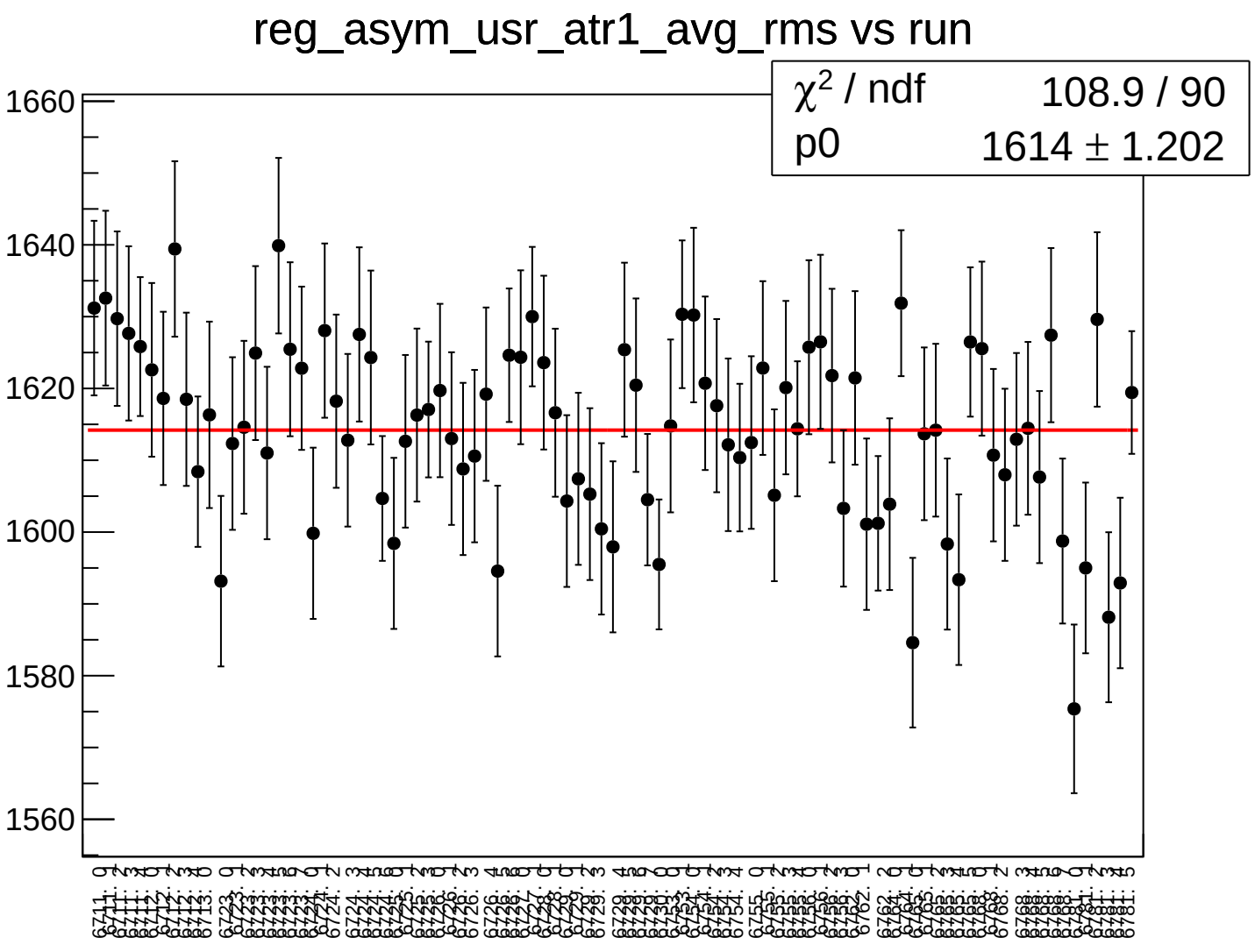

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.69 / 90
p0 2.774e−14 ± 6.523e−14
pull
Entries 91
Mean 426.8
Std Dev 0

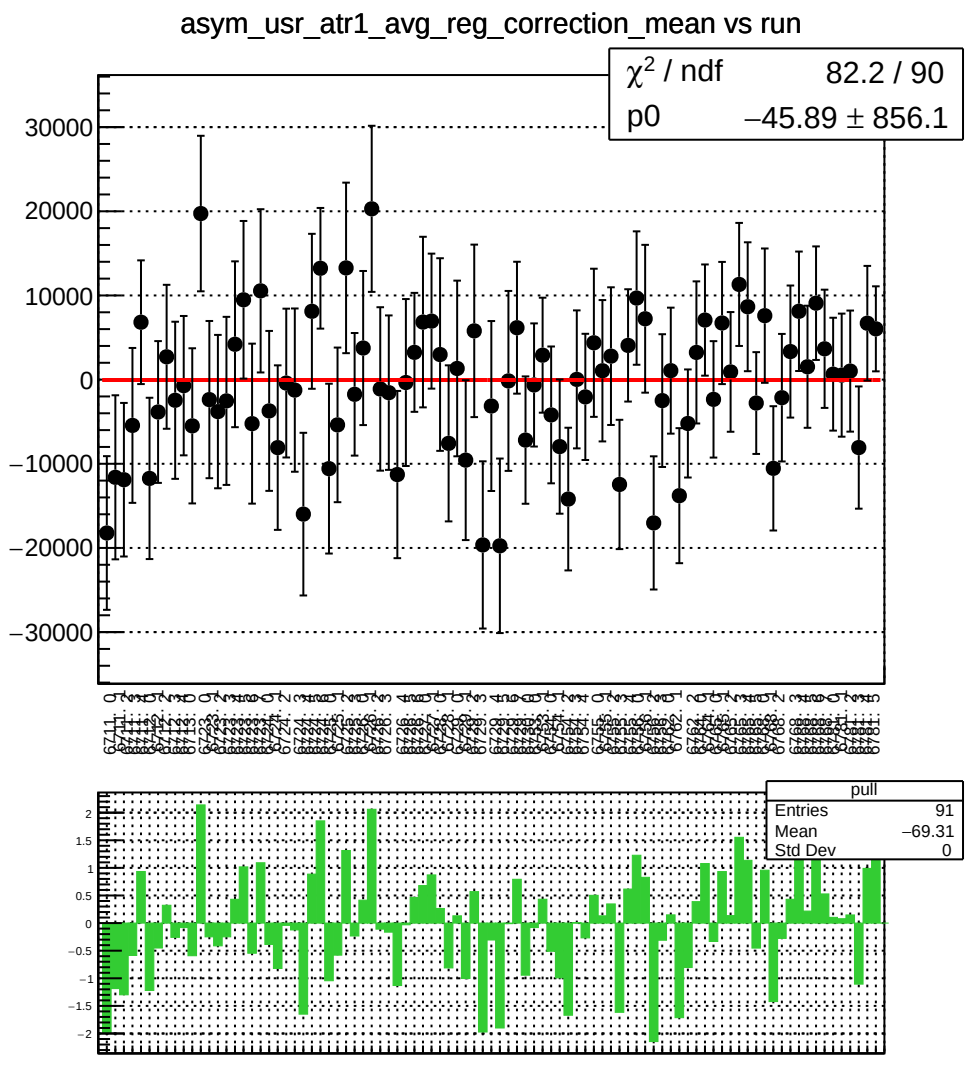

pull1D
Entries 91
Mean −0.009262
Std Dev 0.9474

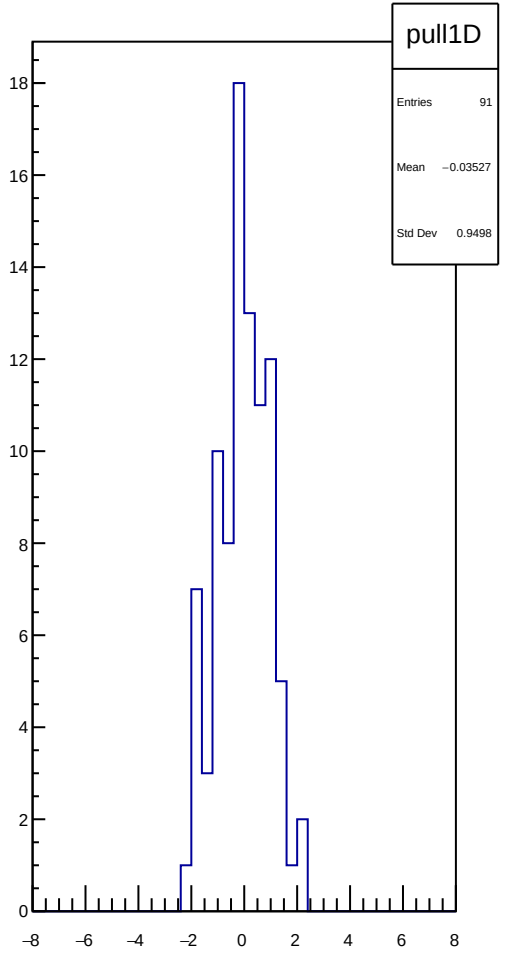

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.571e+05 / 90
p0 4.94e−11 ± 4.612e−14
0.3
0.25
0.2
0.15
0.1
0.05

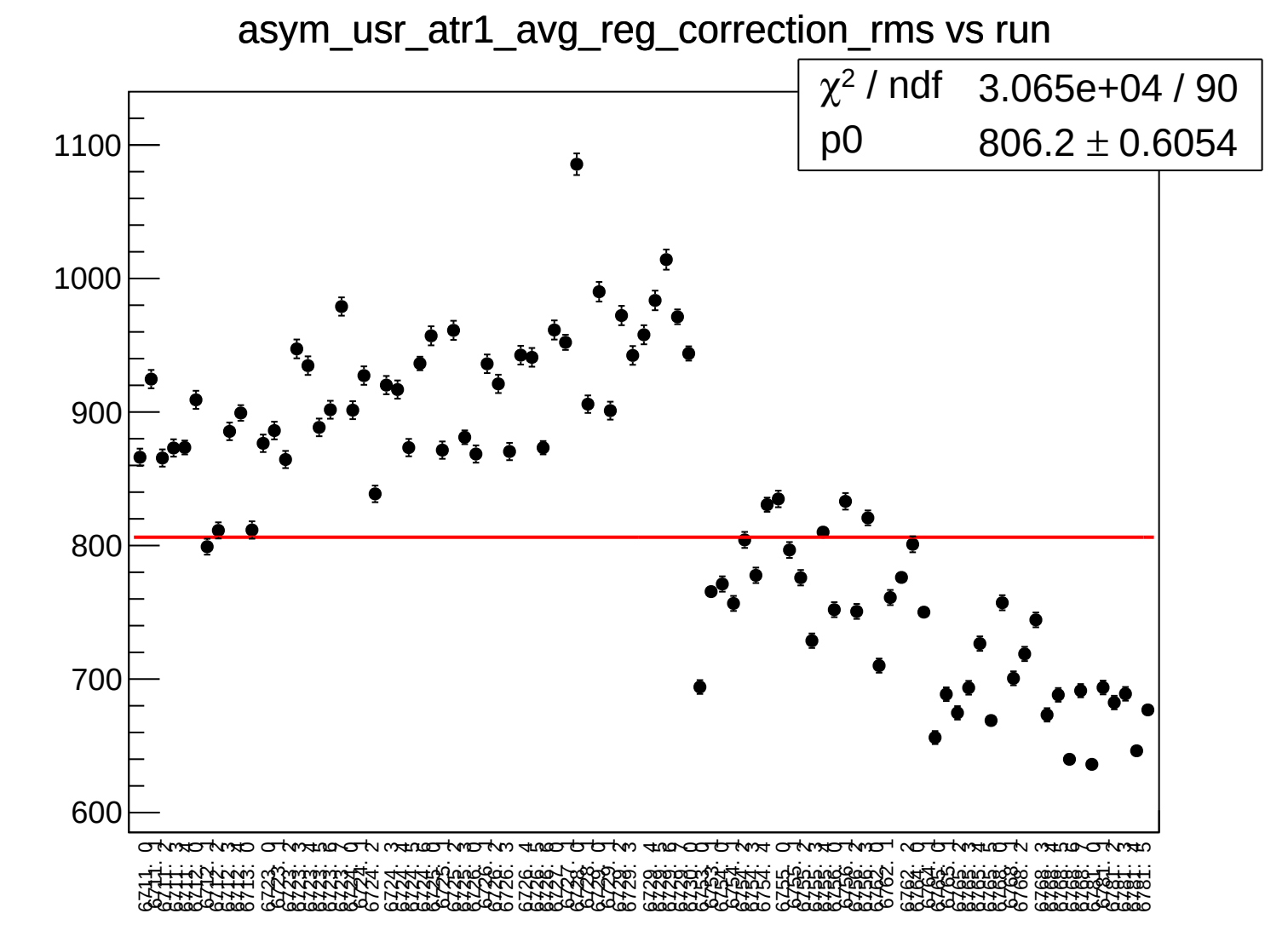

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 99.75 / 90
p0 −5584 ± 1700
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 189.8
Std Dev 0
2
1
0
−1
−2

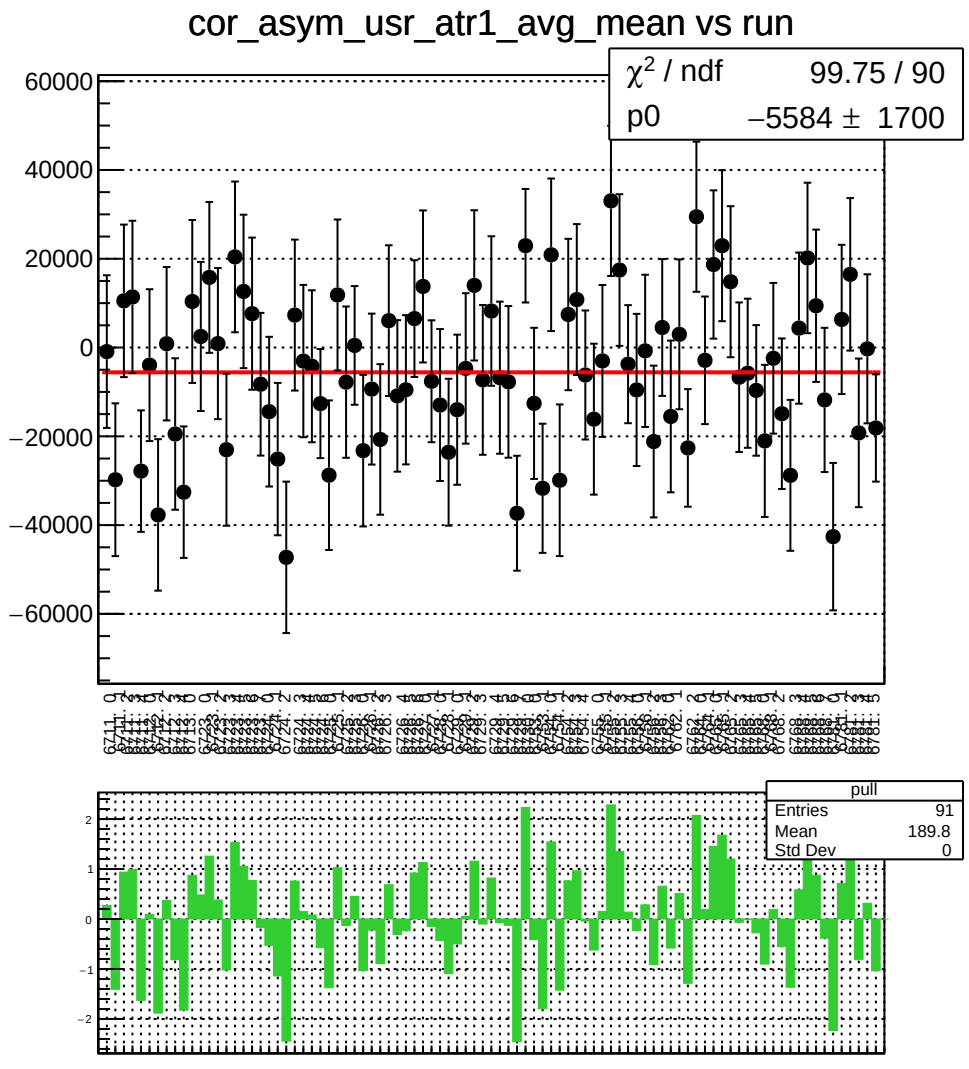

pull1D
Entries 91
Mean 0.01877
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

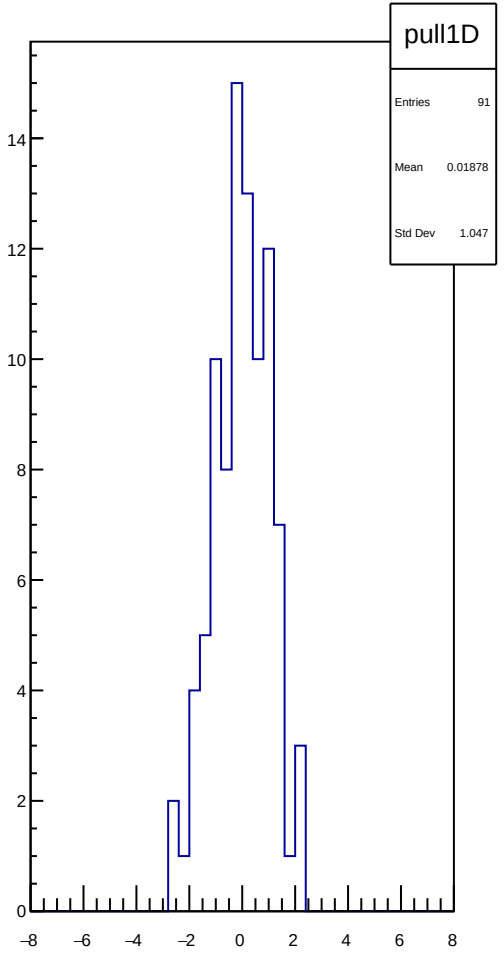

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 108.9 / 90
p0 1614 ± 1.202
1660
1640
1620
1600
1580
1560

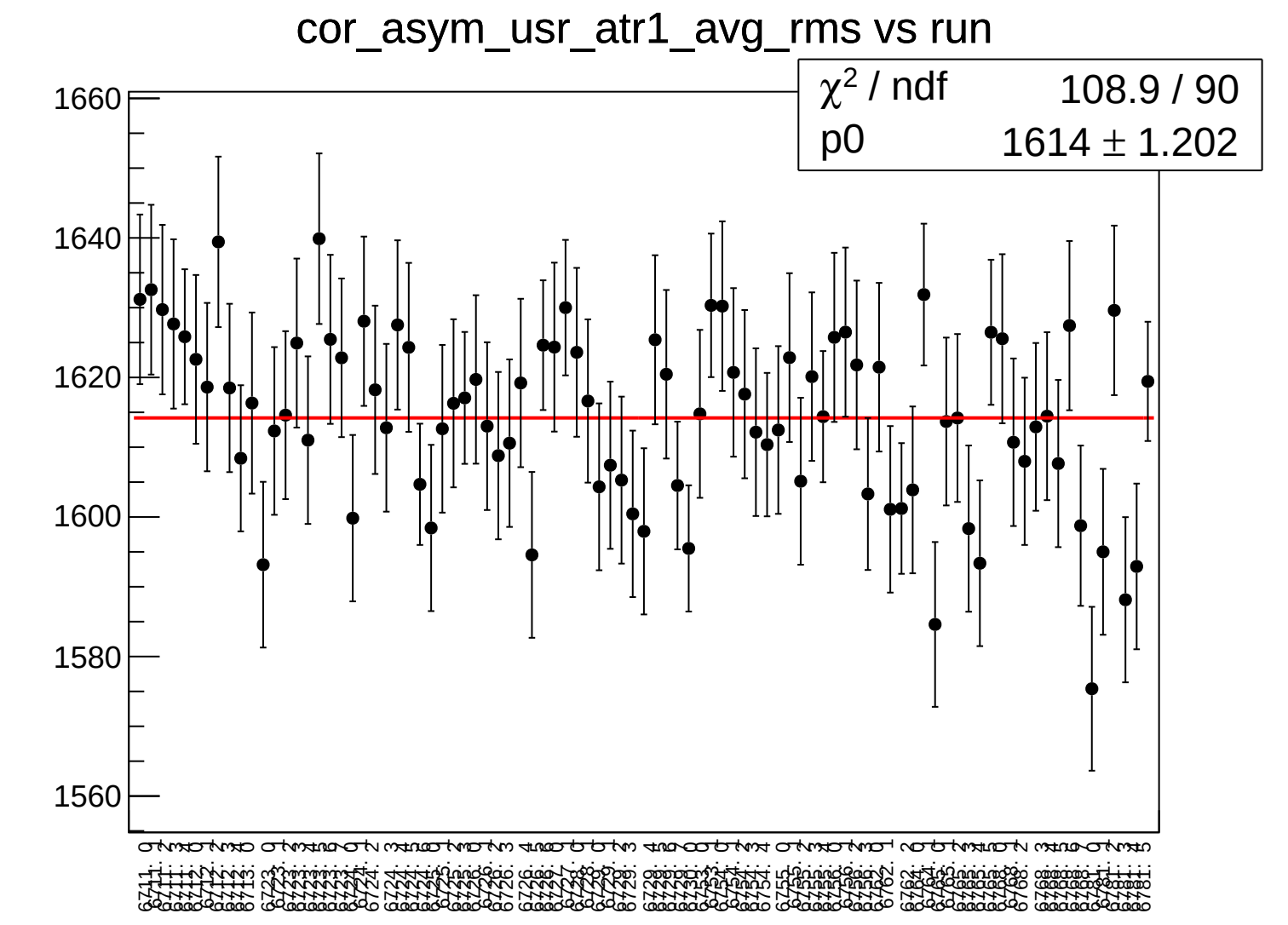

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 82.2 / 90
p0 −45.89 ± 856.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −69.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

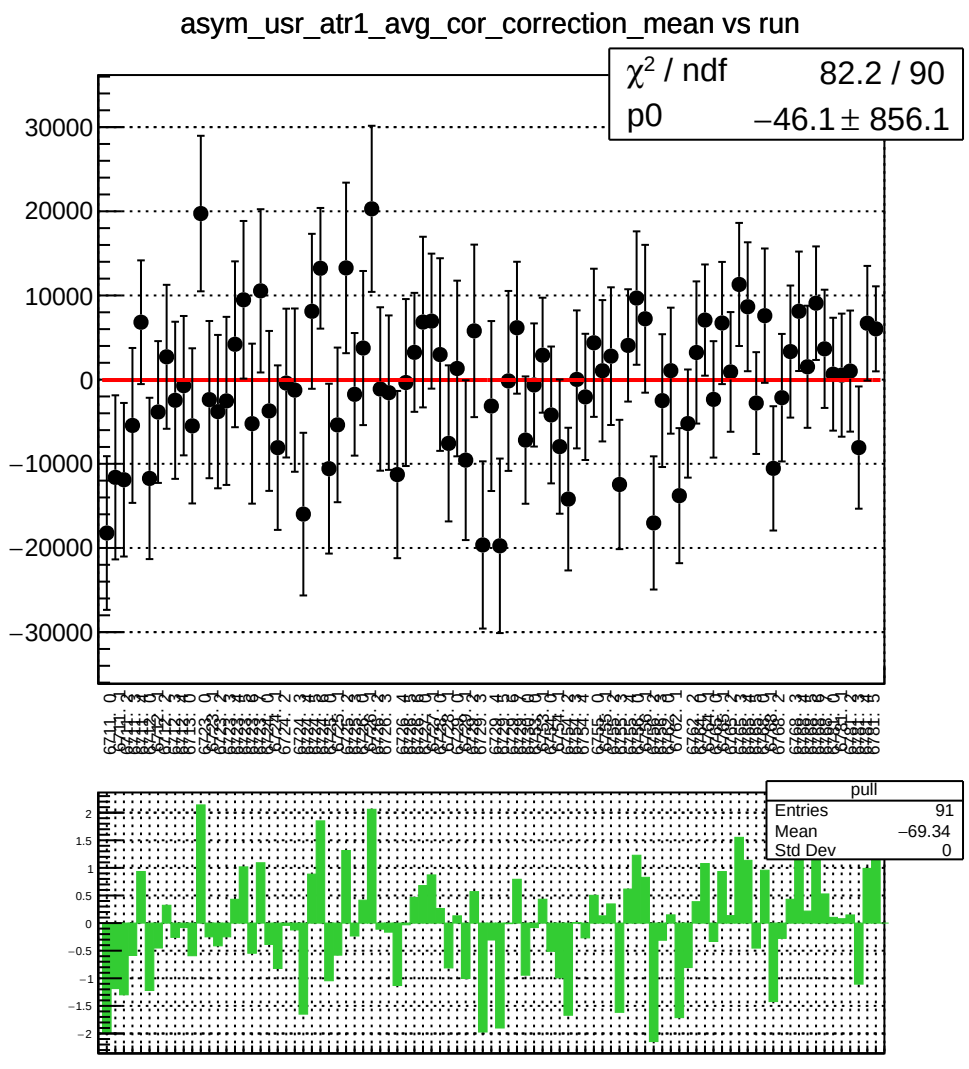

pull1D
Entries 91
Mean −0.03527
Std Dev 0.9498
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

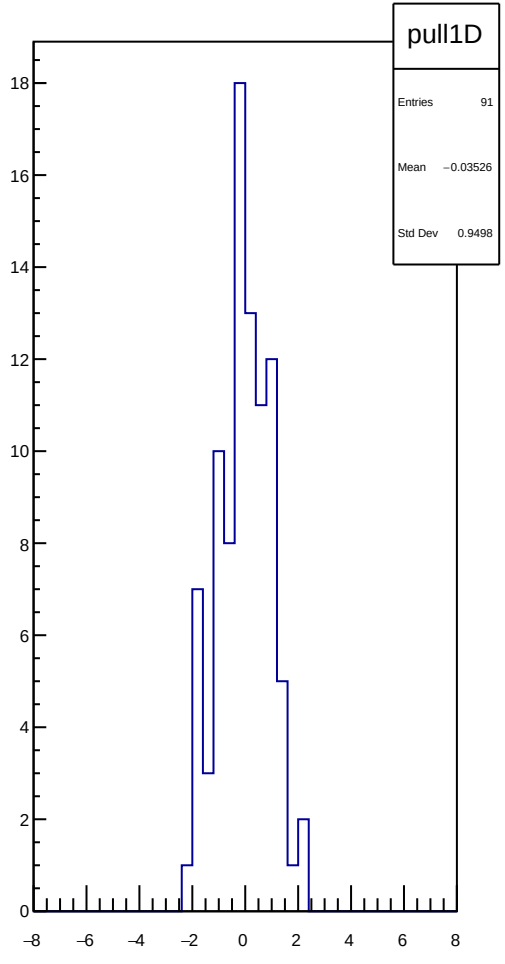

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 3.065e+04 / 90
p0 806.2 ± 0.6054
1100
1000
900
800
700
600

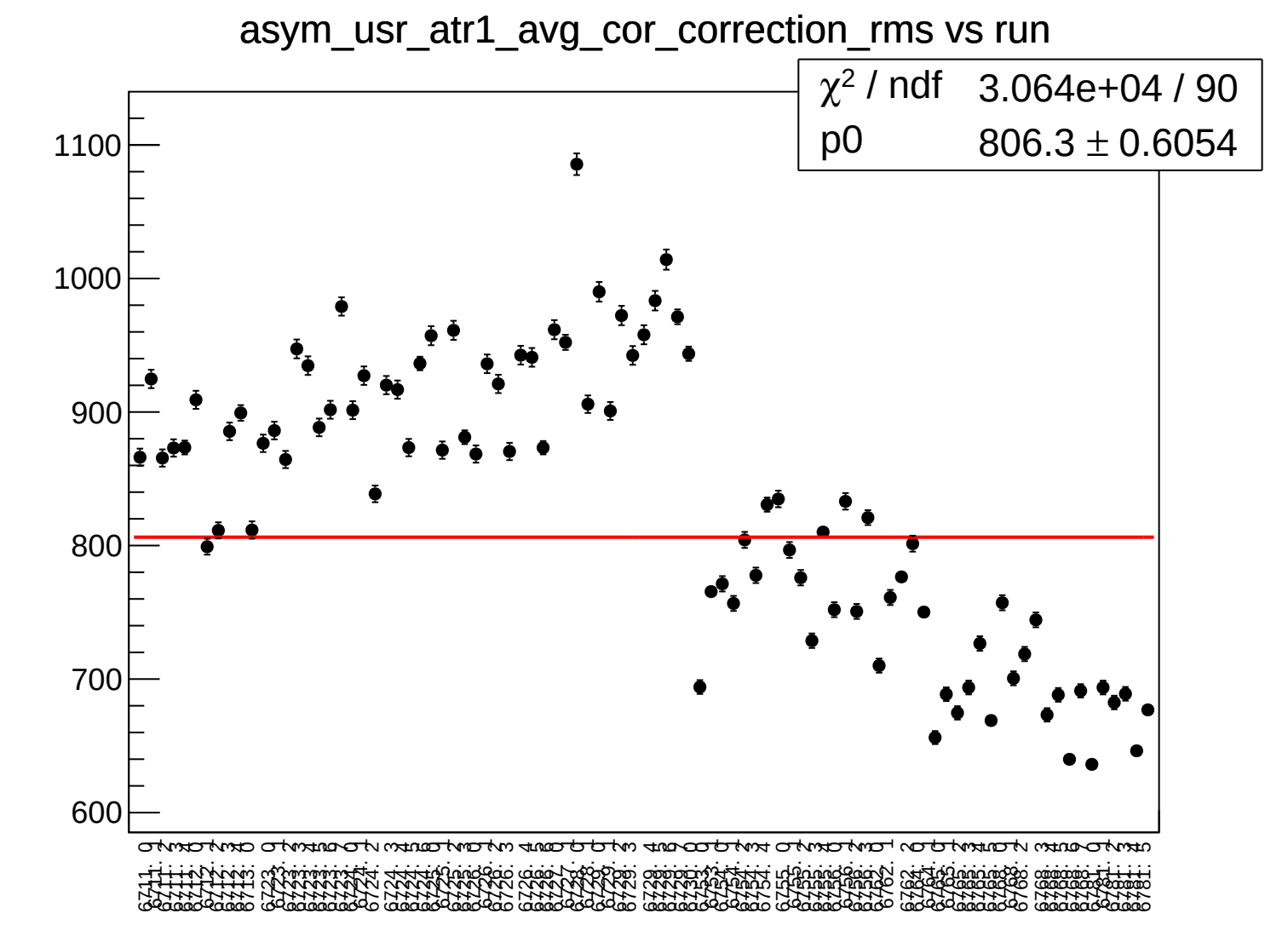

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 99.75 / 90
p0 −5584 ± 1700
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 189.8
Std Dev 0
2
1
0
−1
−2

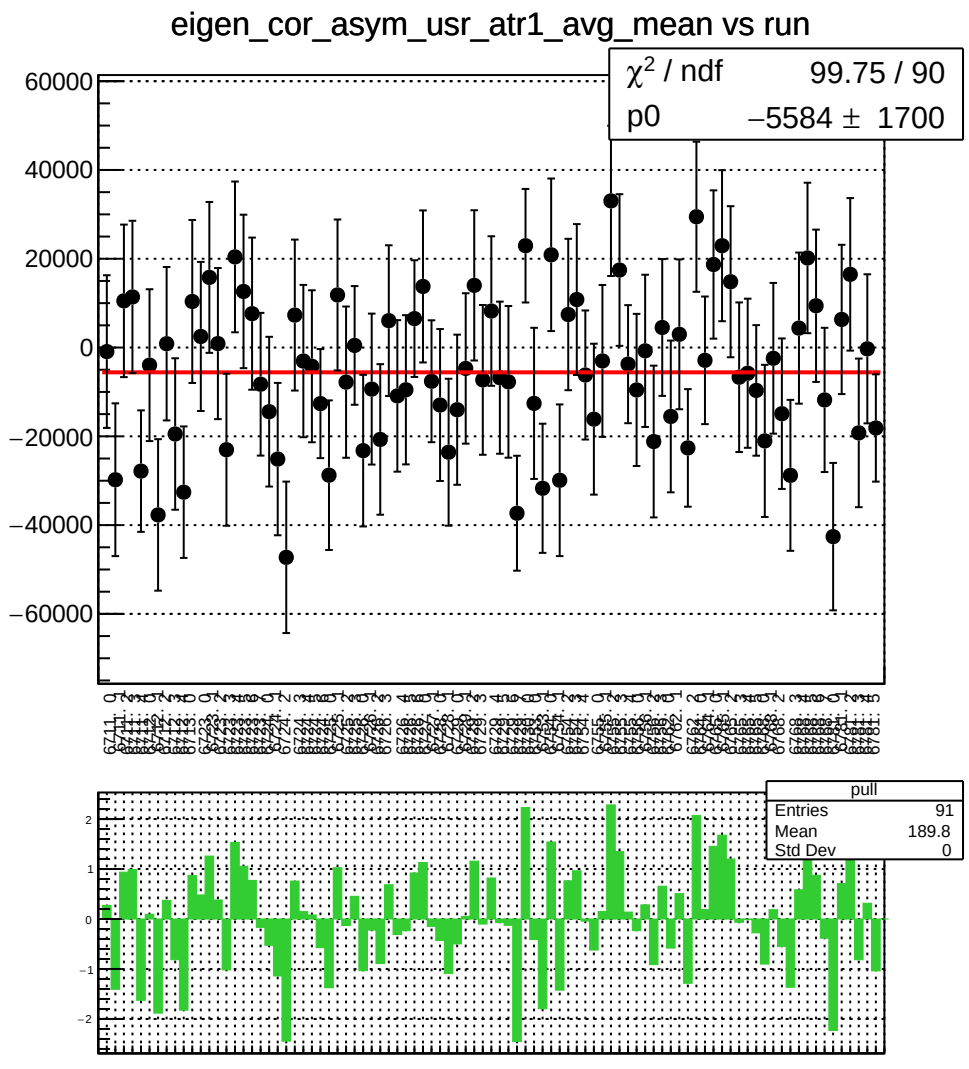

pull1D
Entries 91
Mean 0.01878
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

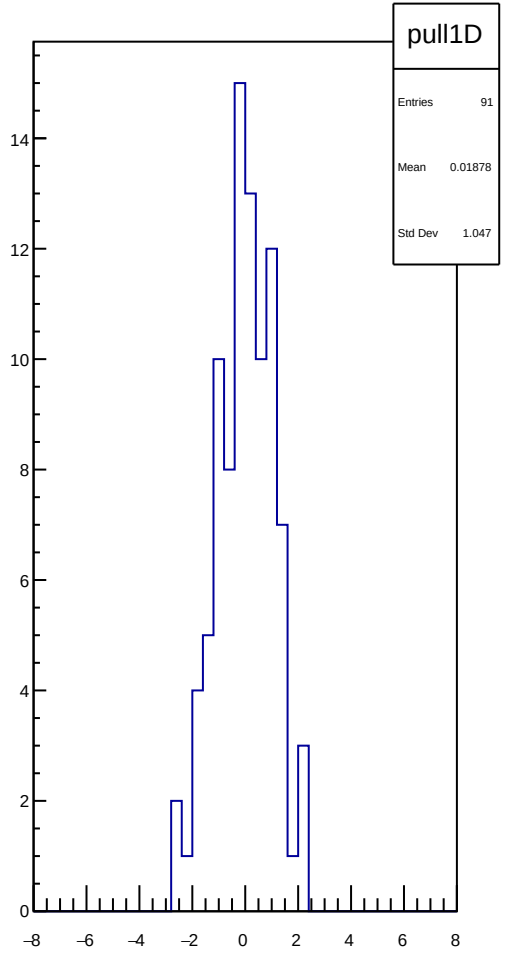

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 108.9 / 90
p0 1614 ± 1.202
1660
1640
1620
1600
1580
1560

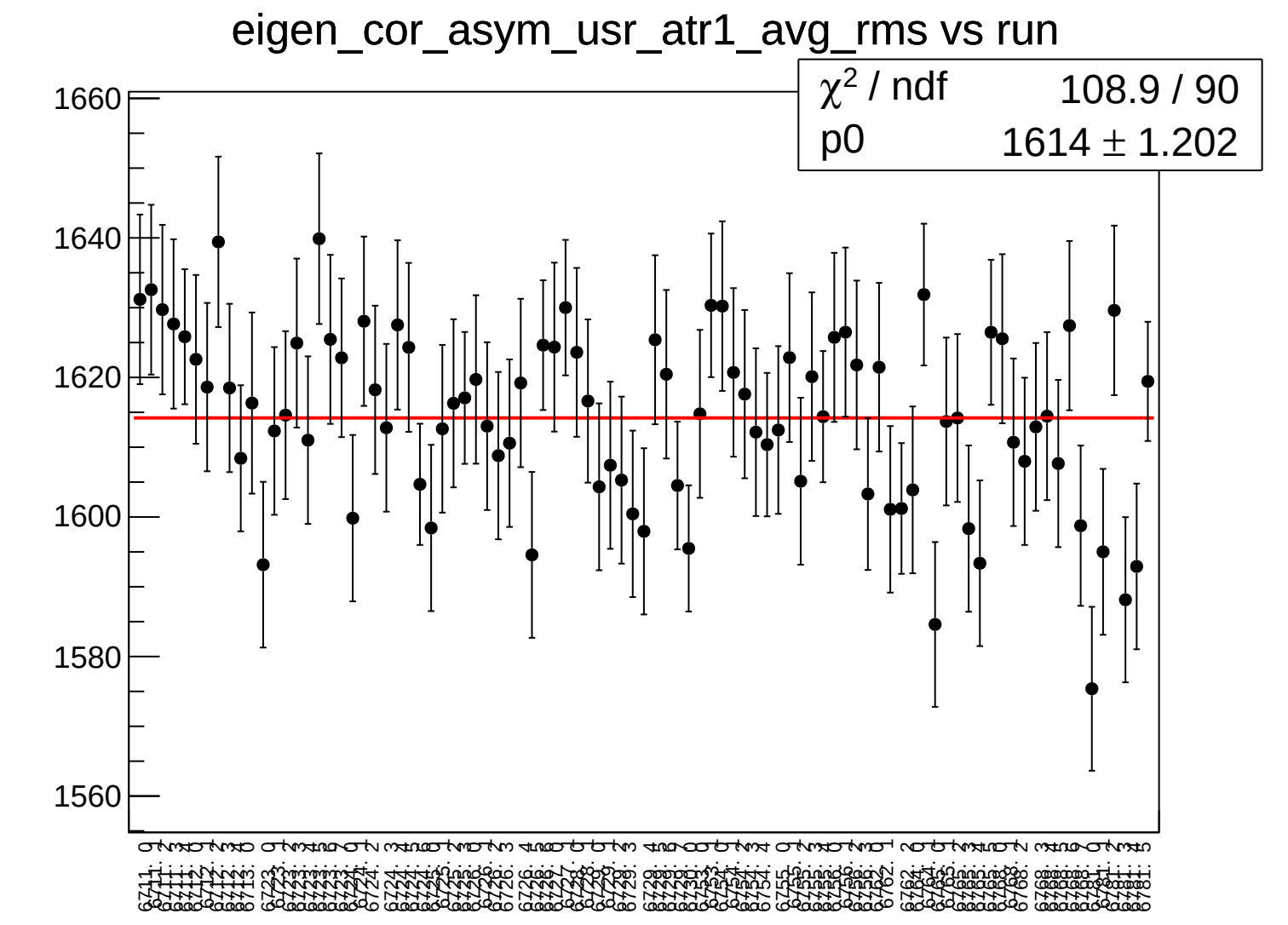

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 82.2 / 90
p0 −46.1 ± 856.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −69.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

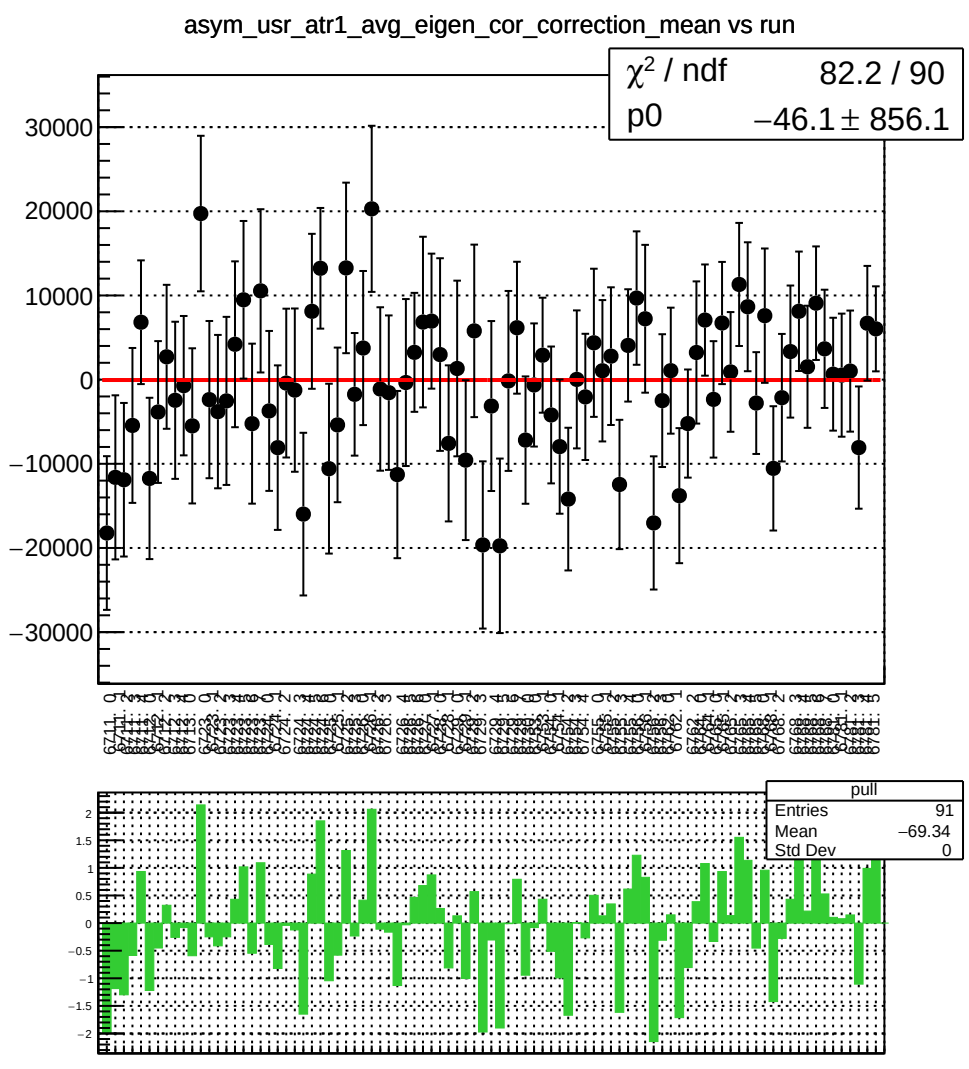

pull1D
Entries 91
Mean −0.03526
Std Dev 0.9498
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

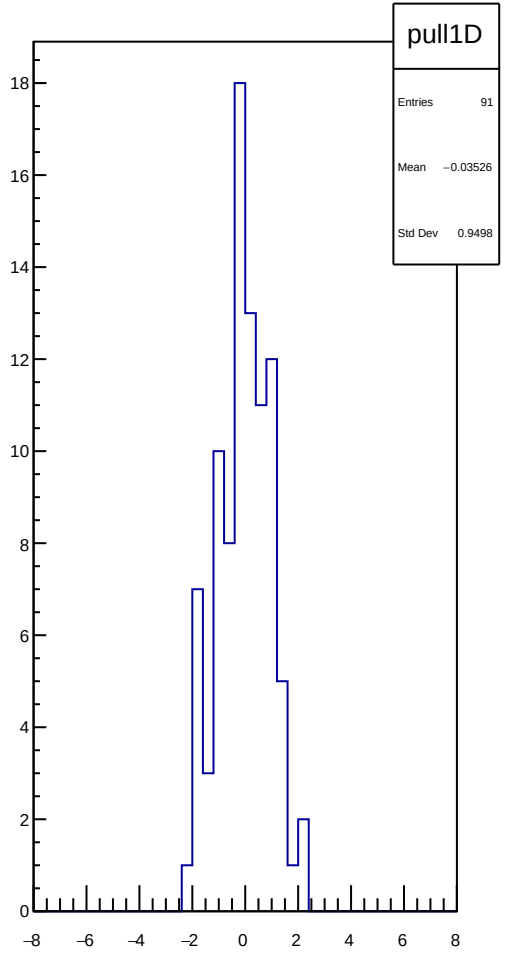

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 3.064e+04 / 90
p0 806.3 ± 0.6054
1100
1000
900
800
700
600

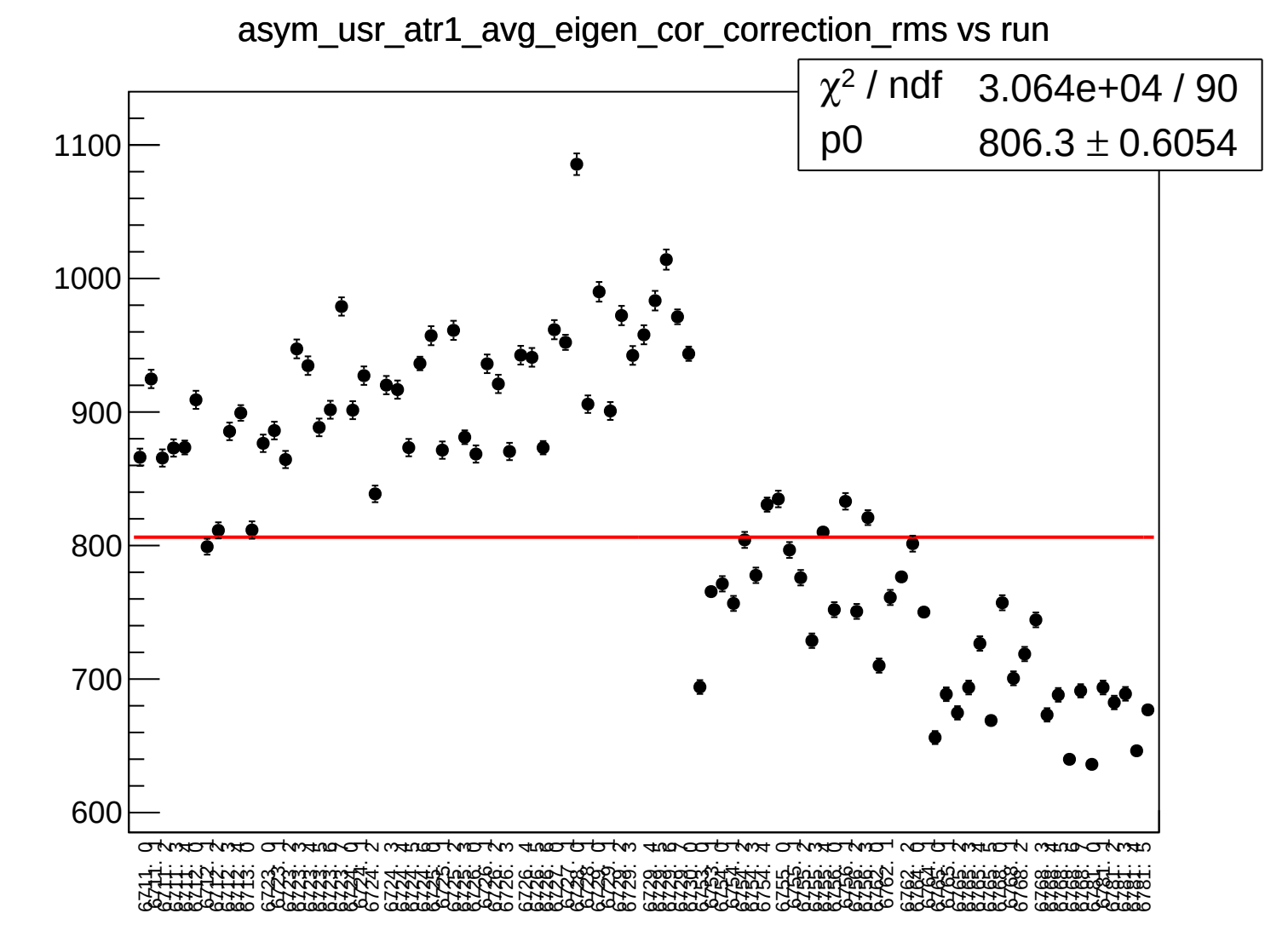

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 99.75 / 90
p0 −5584 ± 1700
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 189.8
Std Dev 0
2
1
0
−1
−2

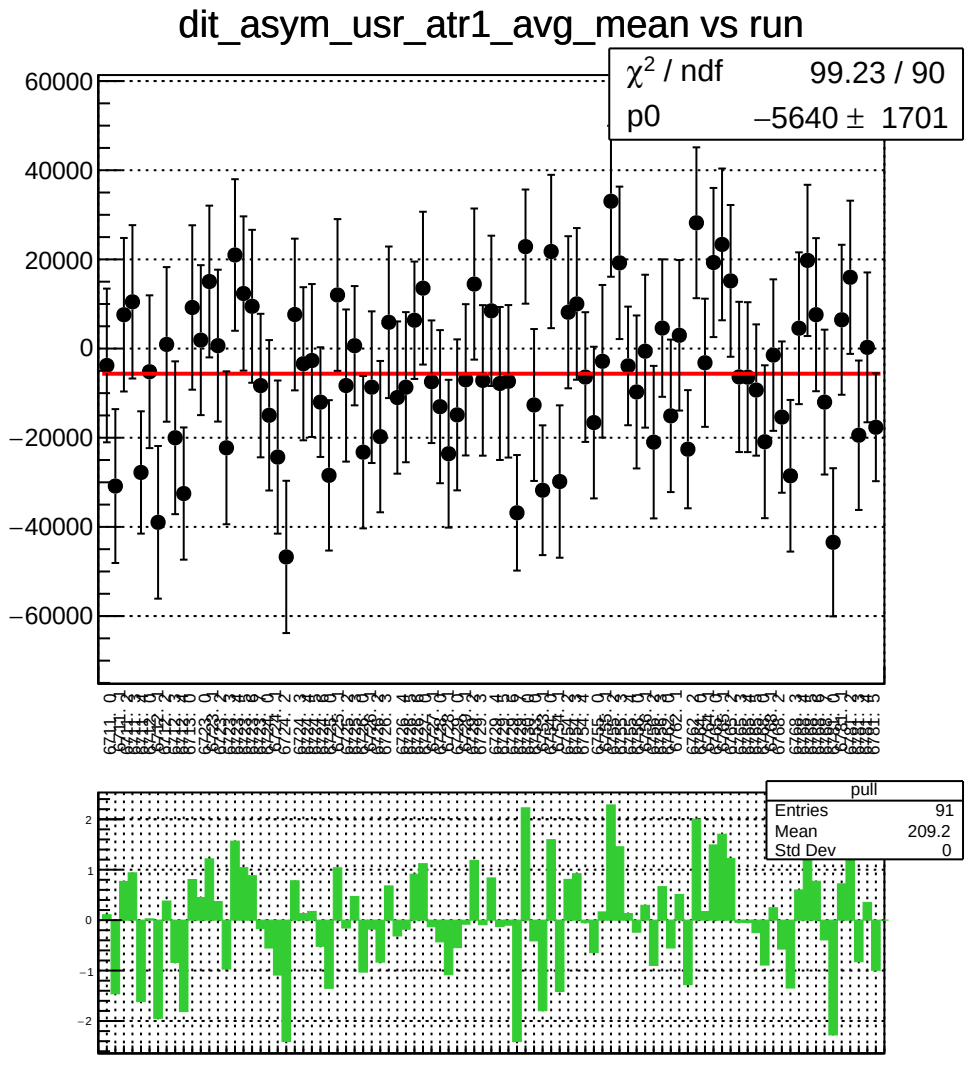

pull1D
Entries 91
Mean 0.01878
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

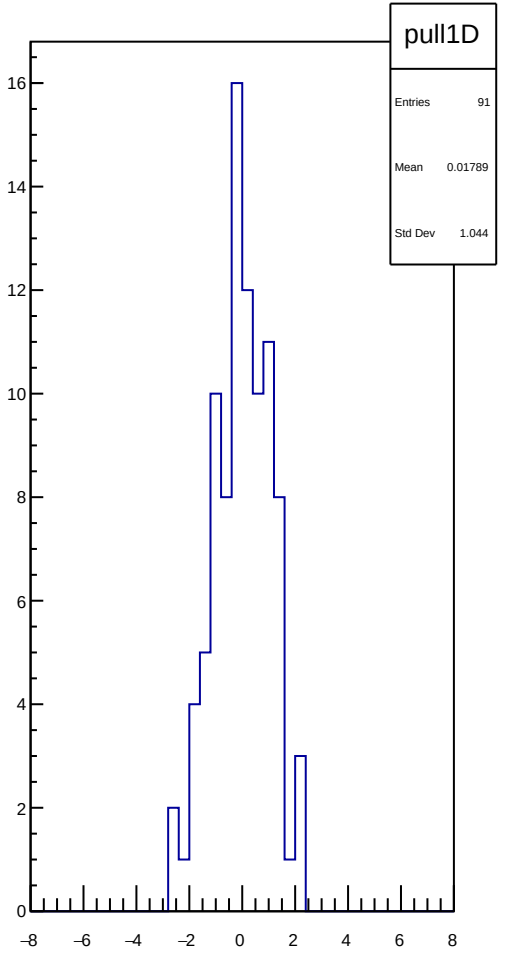

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 108.9 / 90
p0 1614 ± 1.202
1660
1640
1620
1600
1580
1560

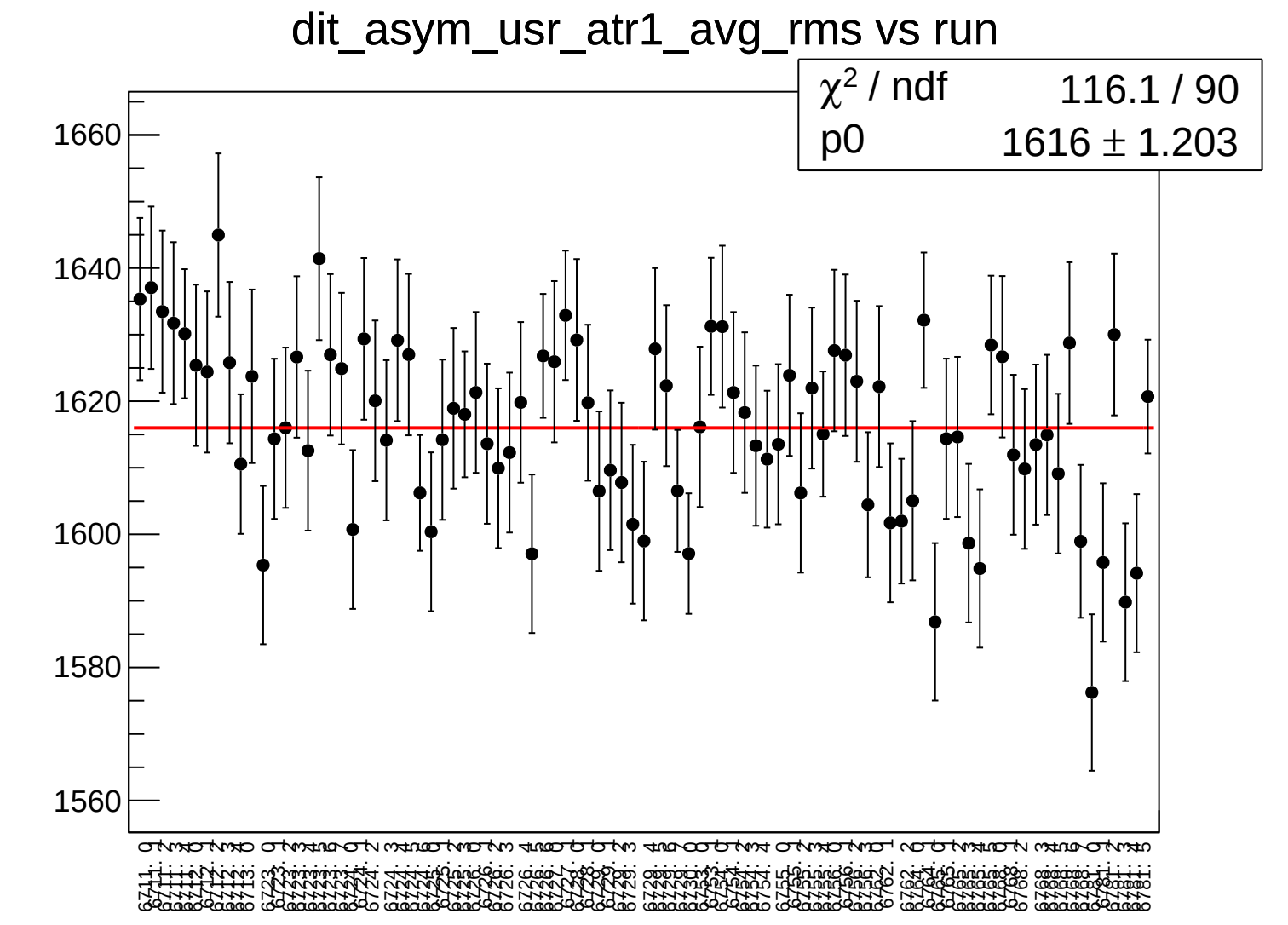

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.2 / 90
p0 −46.1 ± 856.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −69.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

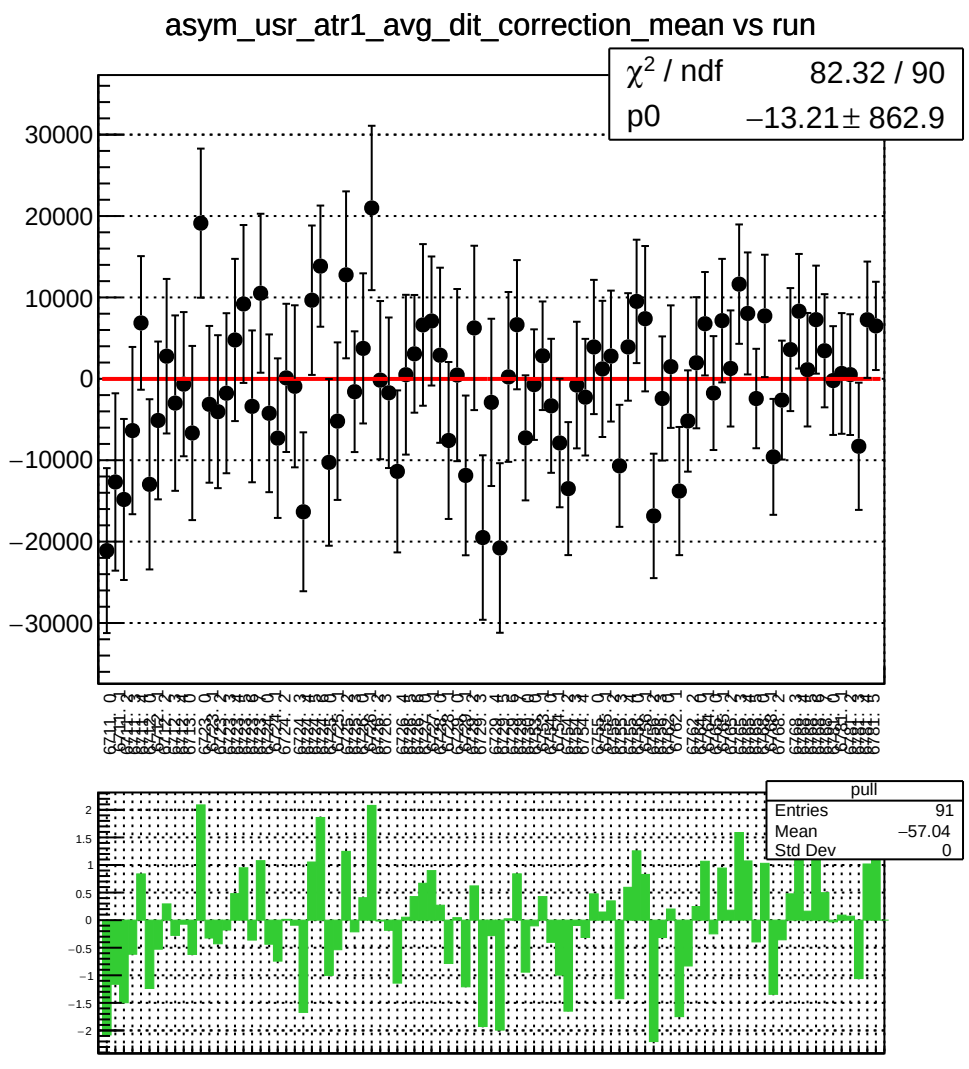

pull1D
Entries 91
Mean −0.03526
Std Dev 0.9498
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

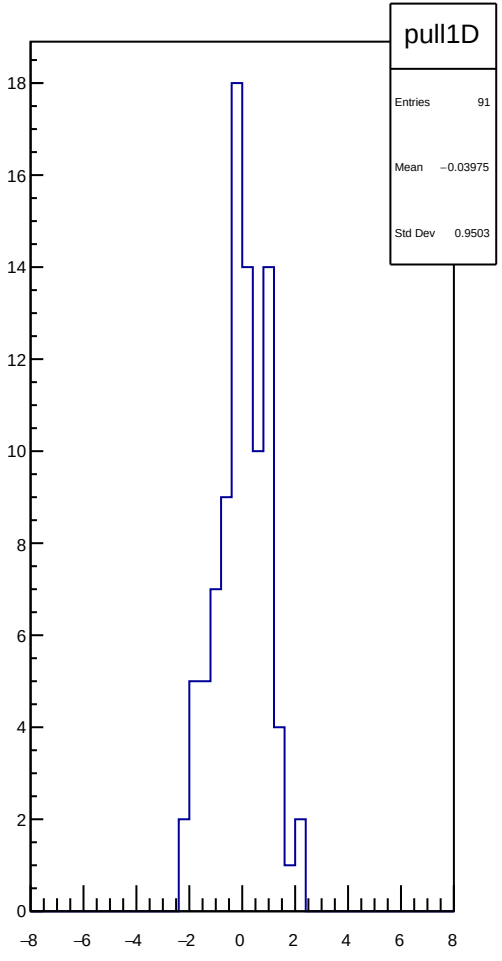

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.064e+04 / 90
p0 806.3 ± 0.6054
1100
1000
900
800
700
600

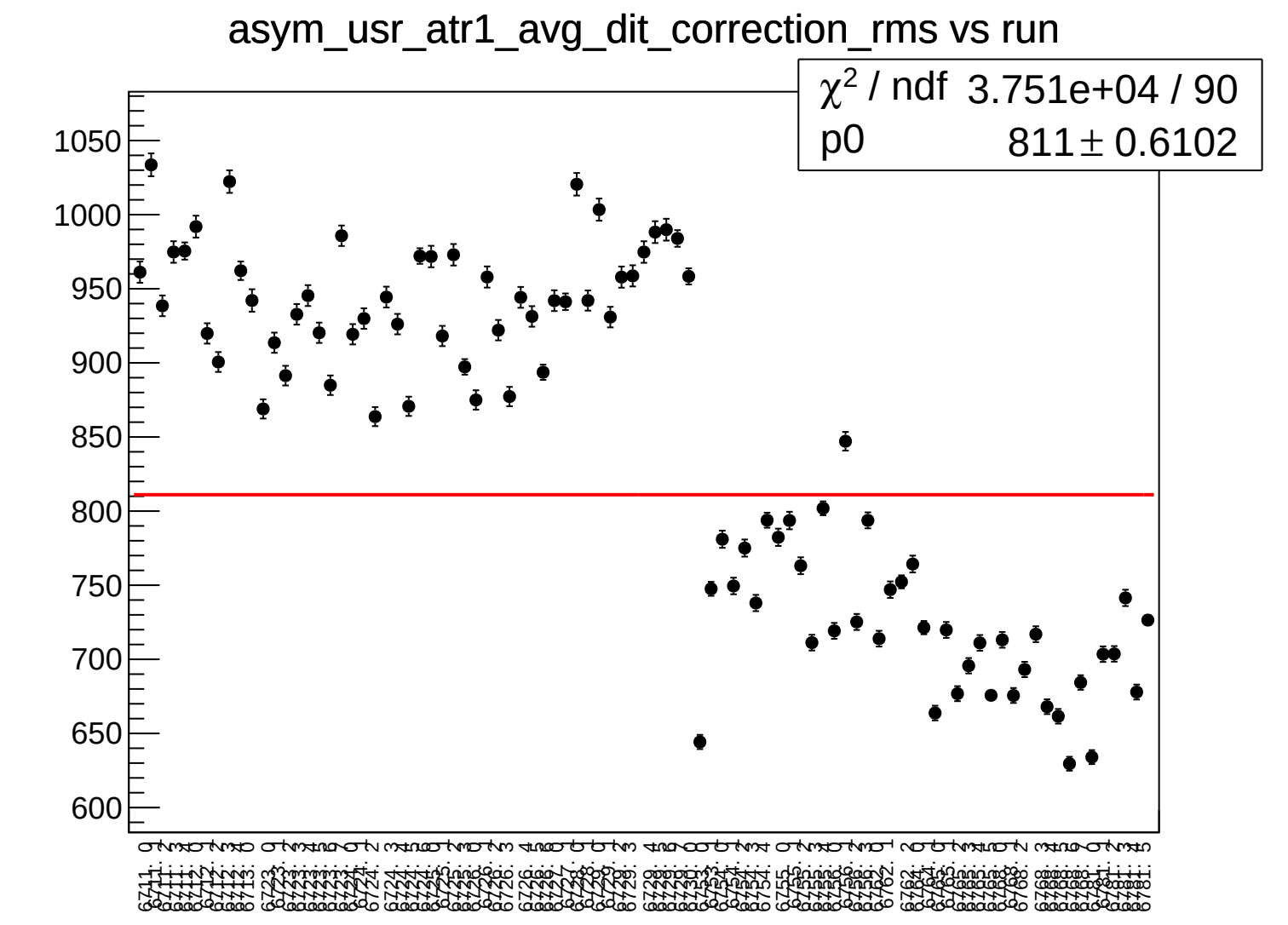

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 99.23 / 90
p0 −5640 ± 1701
pull
Entries 91
Mean 209.2
Std Dev 0

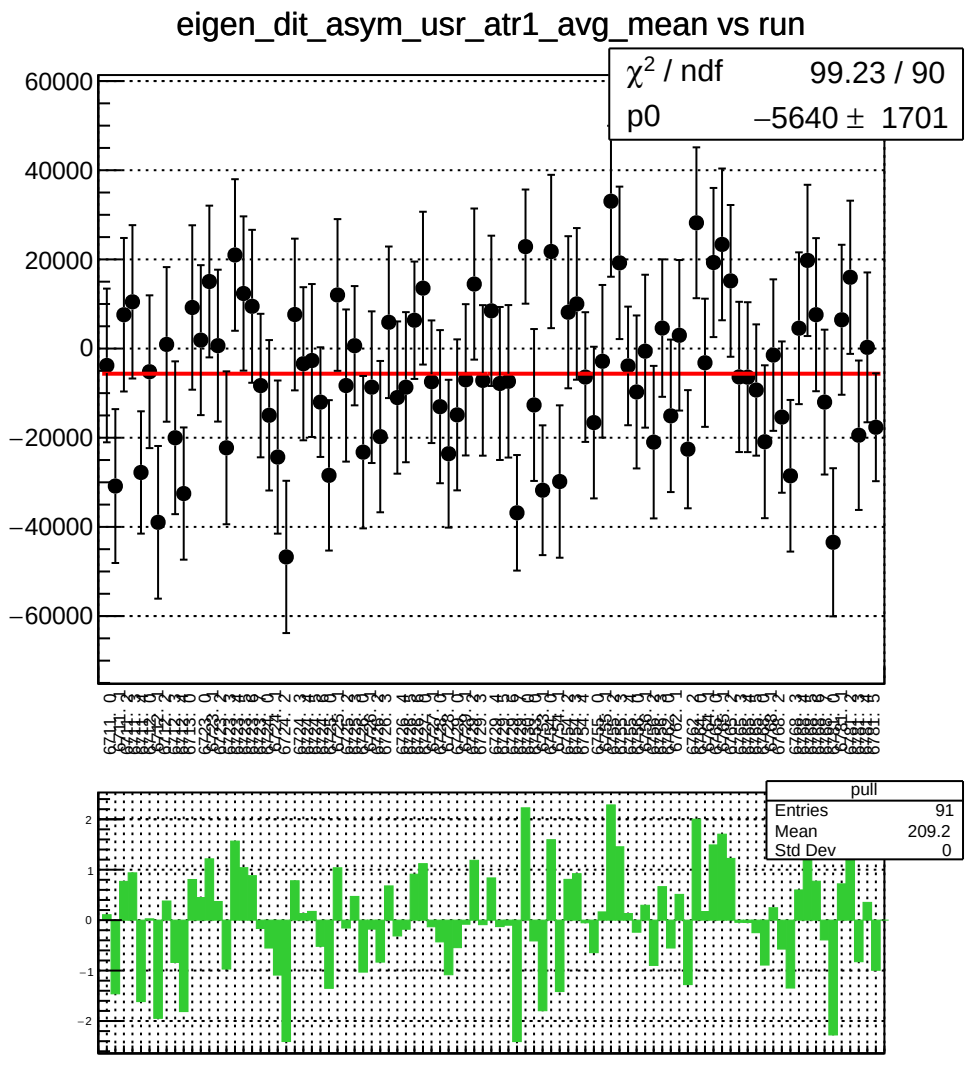

pull1D
Entries 91
Mean 0.01789
Std Dev 1.044

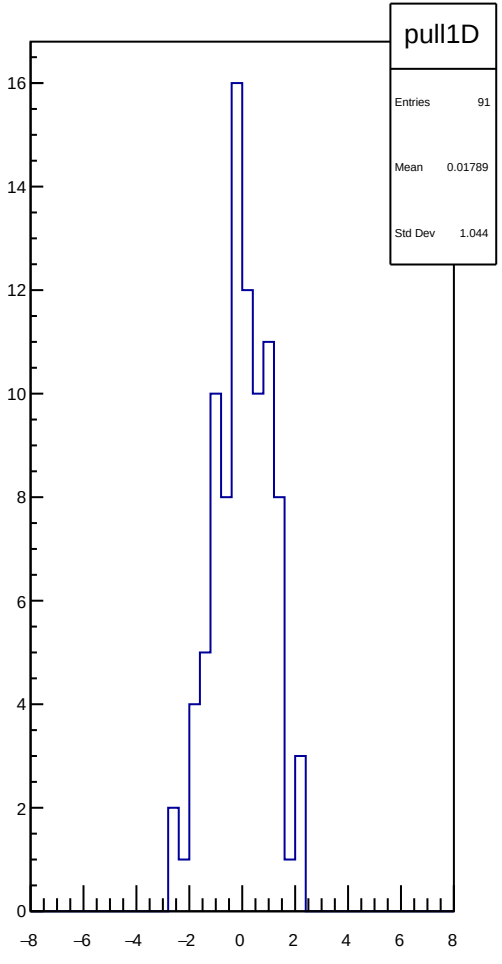

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 116.1 / 90
p0 1616 ± 1.203
1660
1640
1620
1600
1580
1560

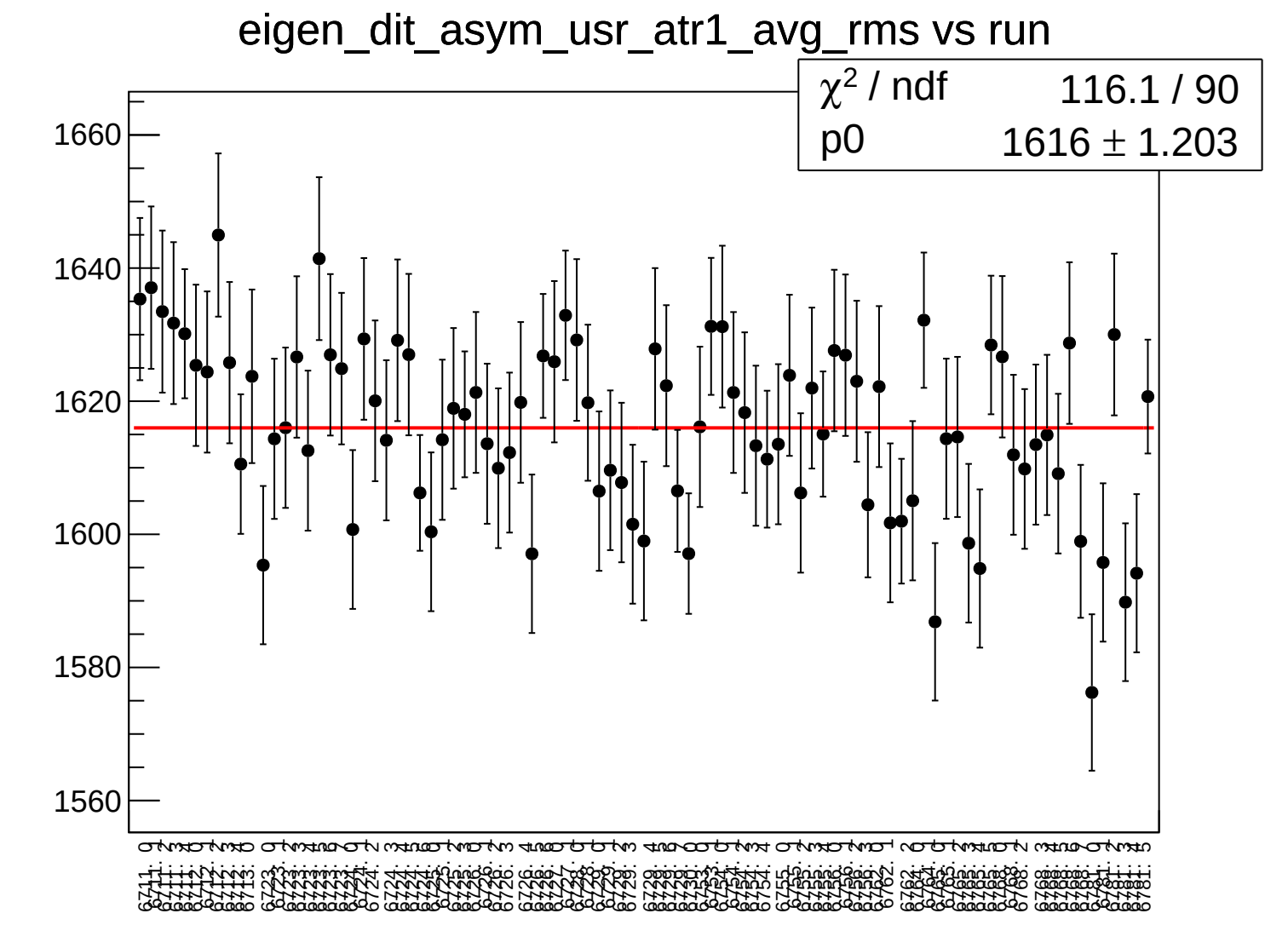

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 82.32 / 90
p0 −13.21 ± 862.9
pull
Entries 91
Mean −57.04
Std Dev 0

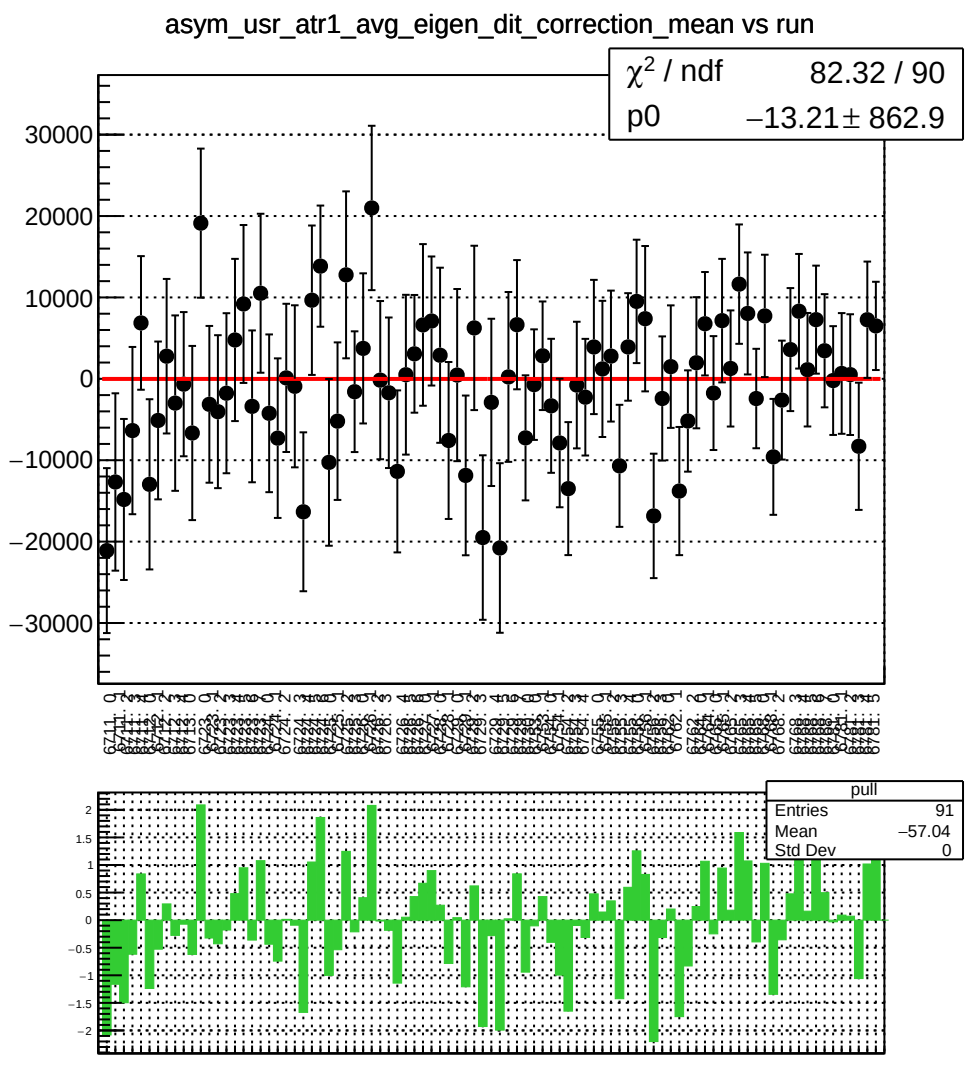

pull1D
Entries 91
Mean −0.03975
Std Dev 0.9503

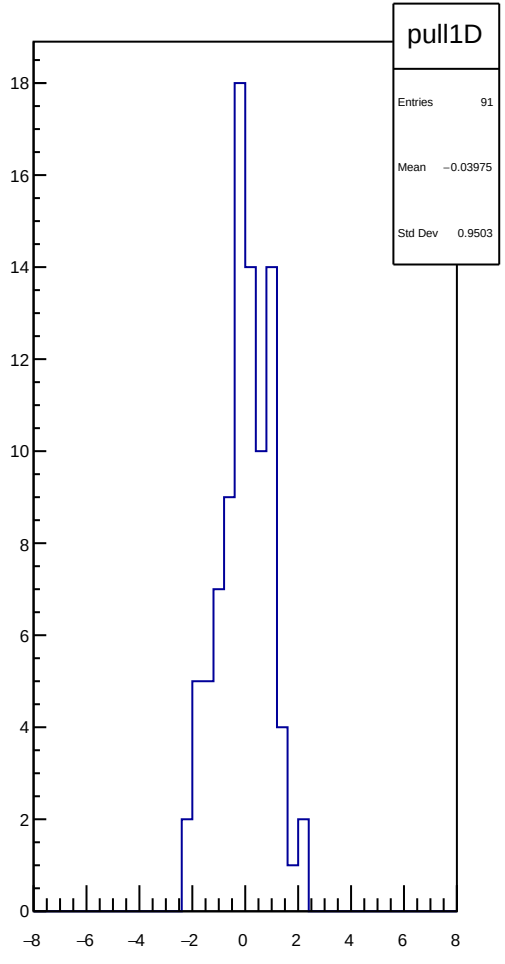

asym_usr_atr1_avg_dit_correction_rms vs run
χ^2 / ndf 3.751e+04 / 90
p0 811 ± 0.6102
1050
1000
950
900
850
800
750
700
650
600

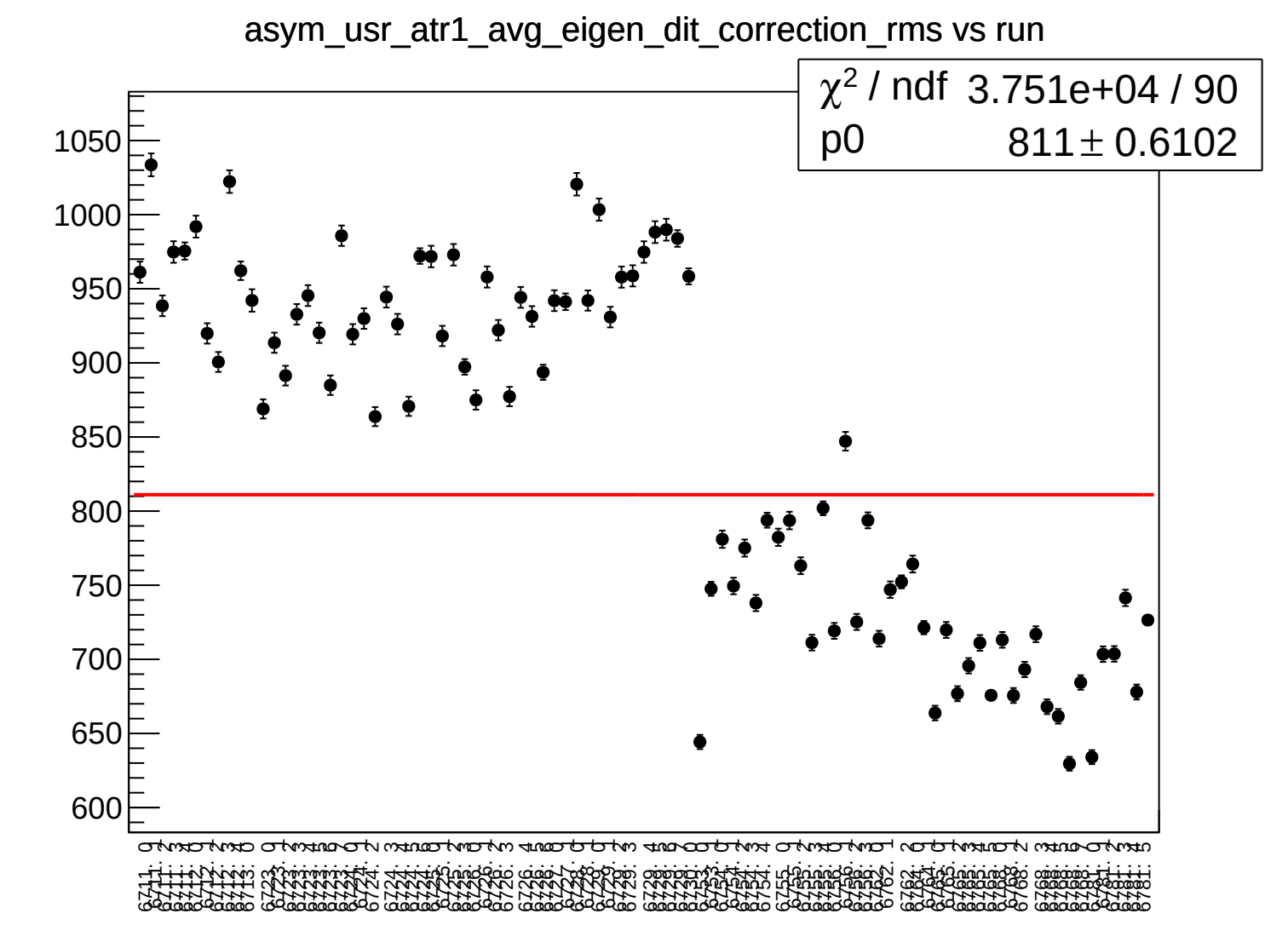

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 99.23 / 90
p0 −5640 ± 1701
pull
Entries 91
Mean 209.2
Std Dev 0

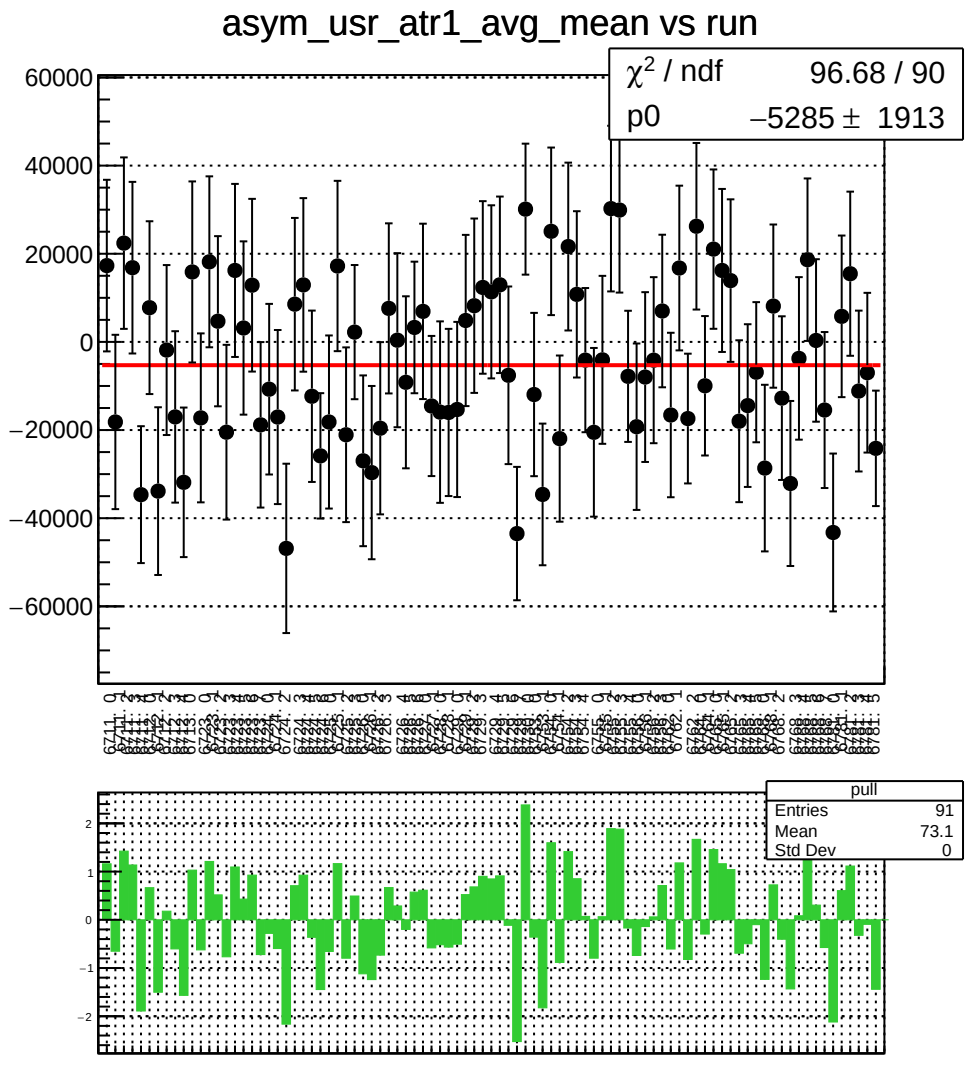

pull1D
Entries 91
Mean 0.01789
Std Dev 1.044

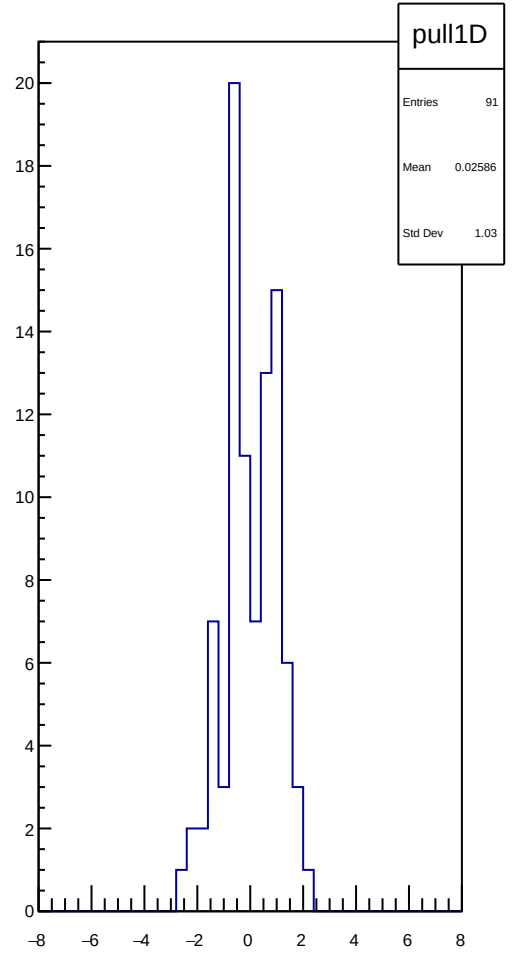

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 116.1 / 90
p0 1616 ± 1.203
1660
1640
1620
1600
1580
1560

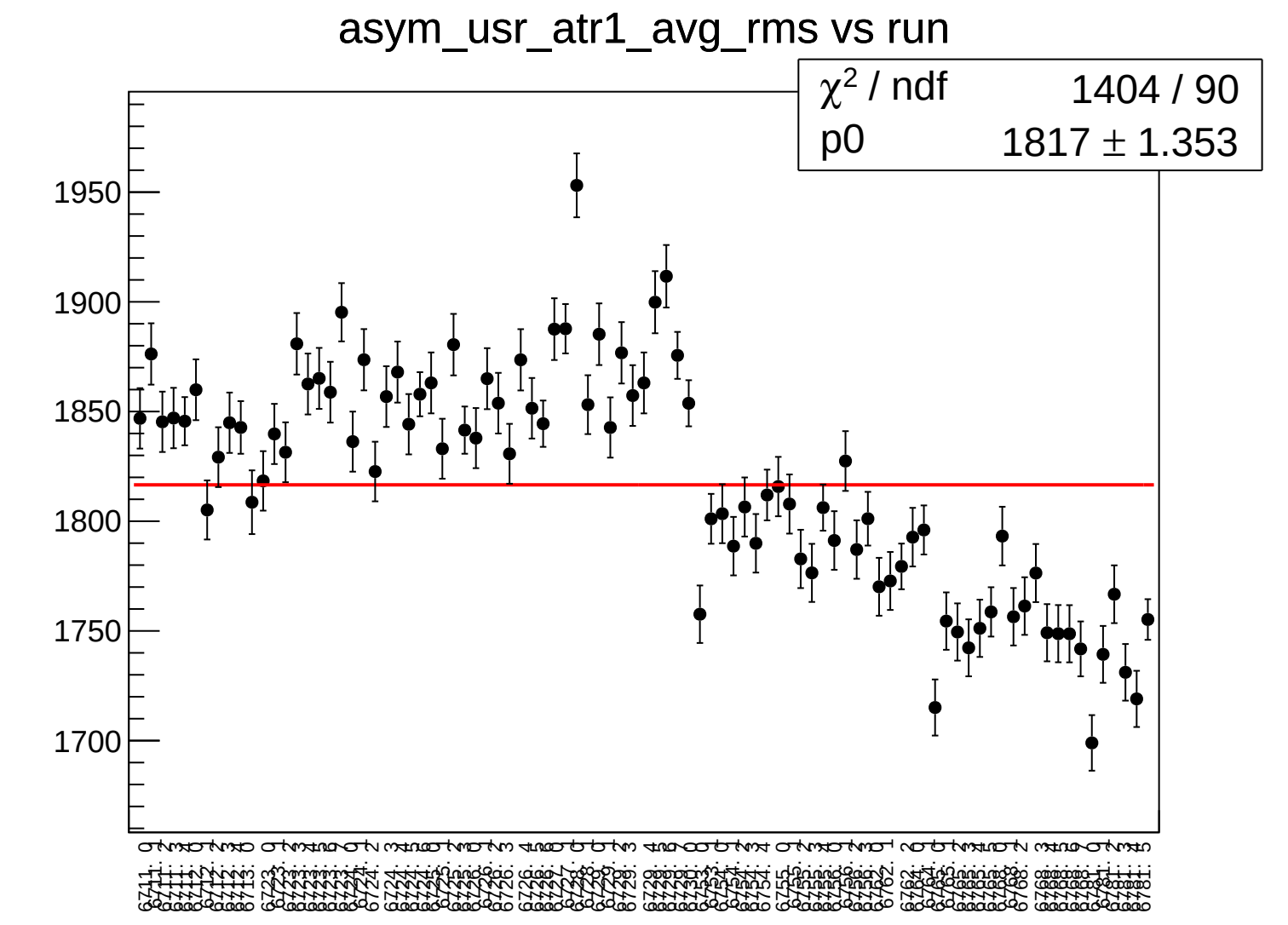

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 82.32 / 90
p0 −13.21 ± 862.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −57.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

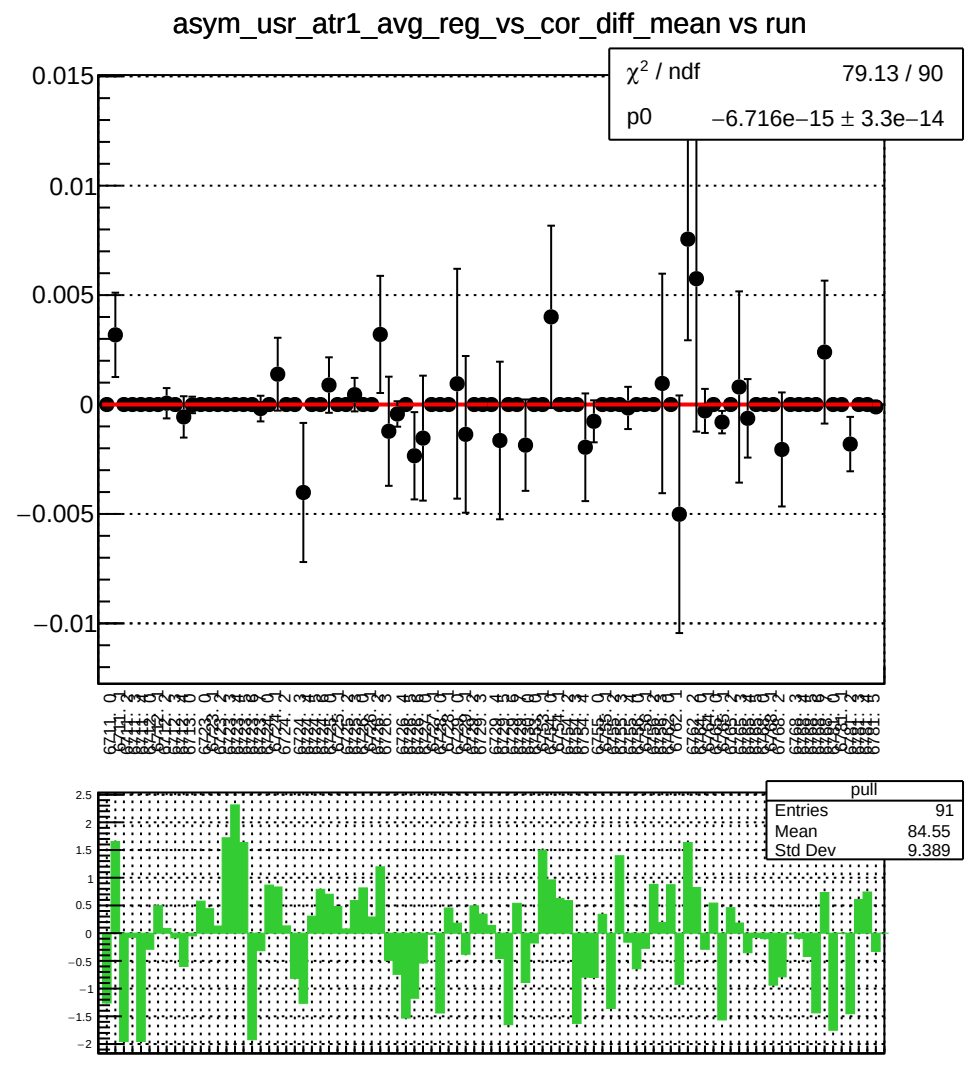

pull1D
Entries 91
Mean −0.03975
Std Dev 0.9503
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

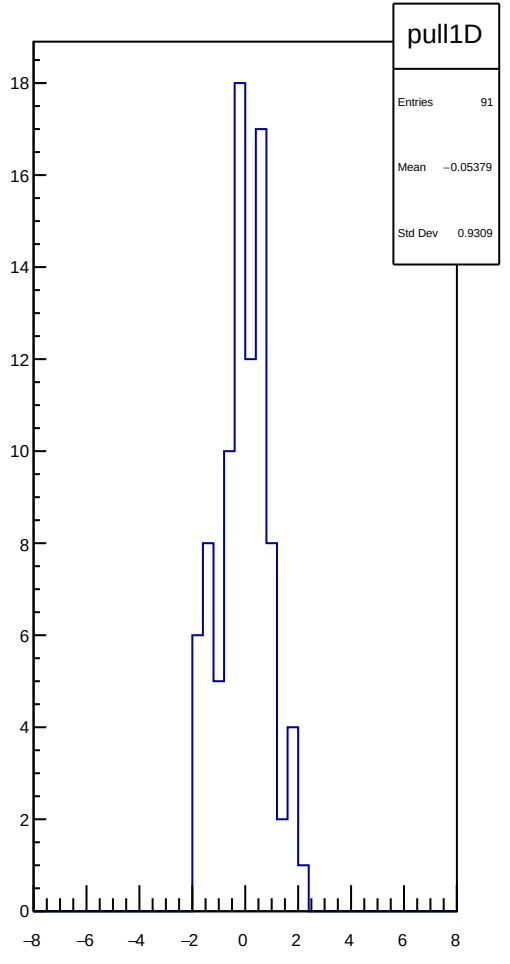

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.751e+04 / 90
p0 811 ± 0.6102
1050
1000
950
900
850
800
750
700
650
600

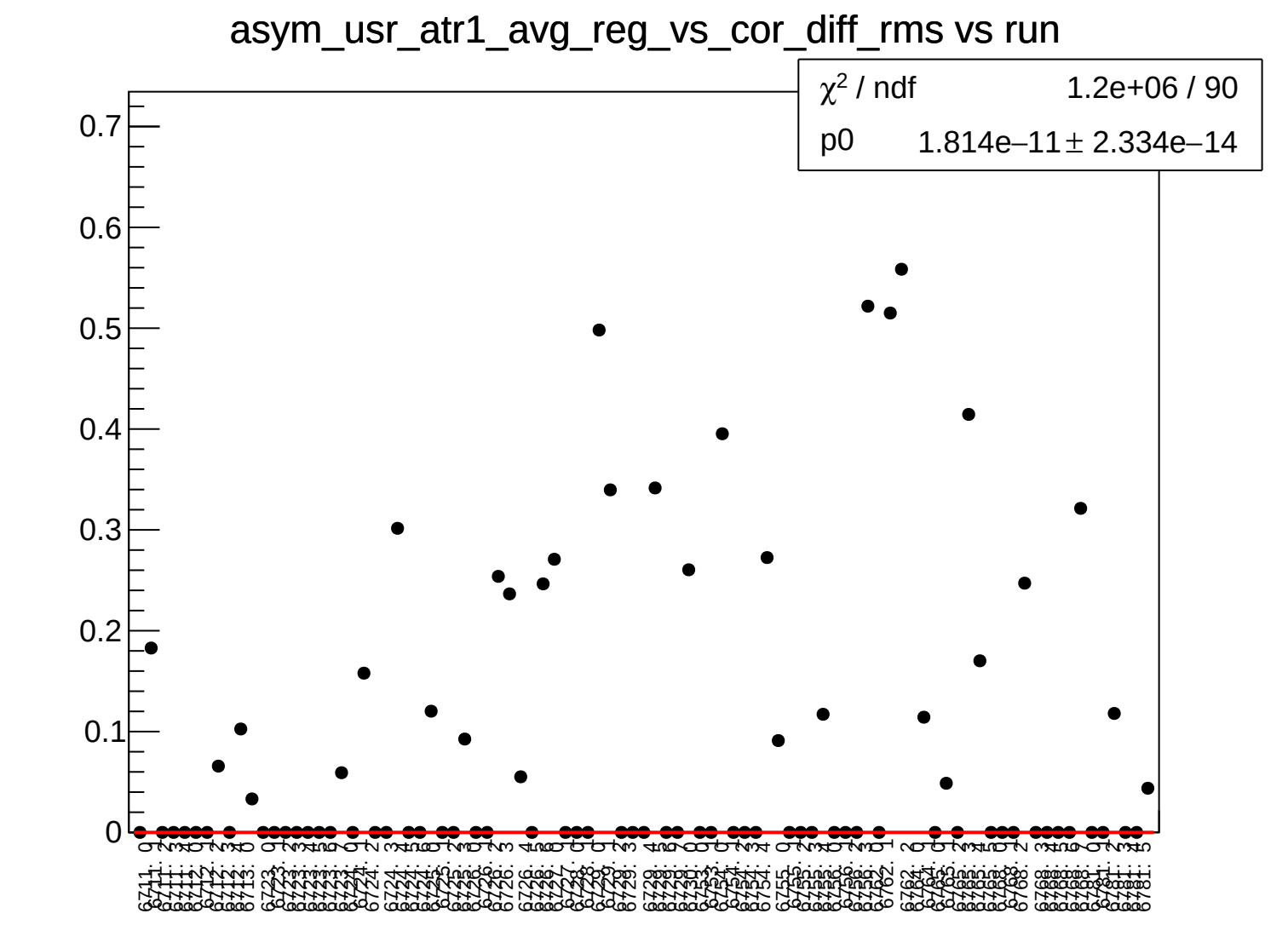

asym_usr_atr1_avg_mean vs run
χ² / ndf 96.68 / 90
p0 −5285 ± 1913
pull
Entries 91
Mean 73.1
Std Dev 0

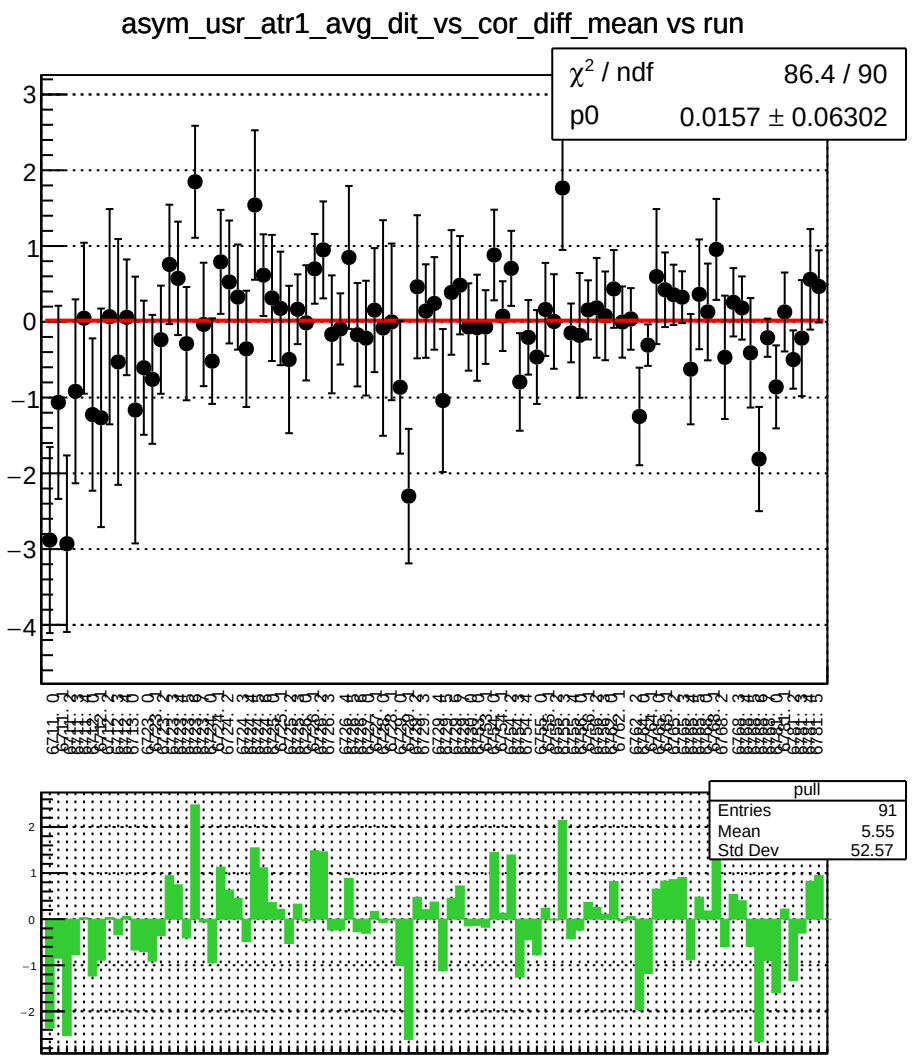

pull1D
Entries 91
Mean 0.02586
Std Dev 1.03

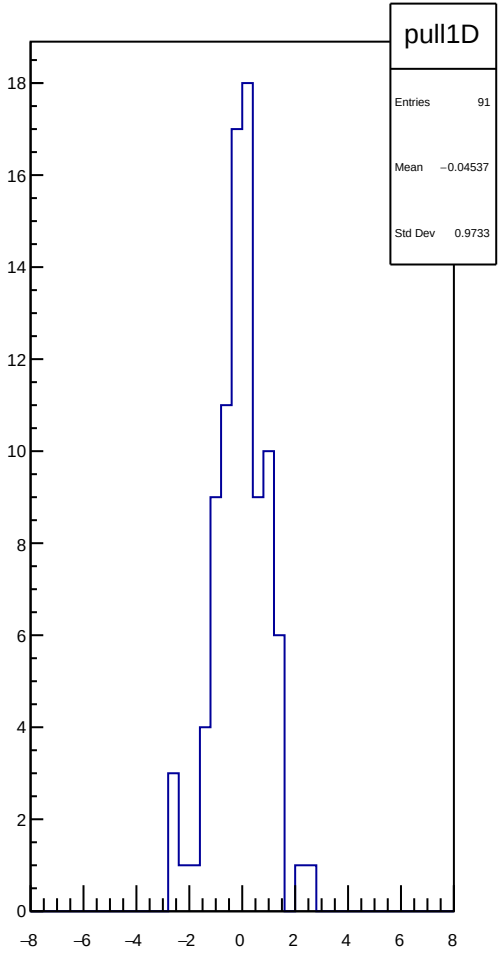

asym_usr_atr1_avg_rms vs run
χ² / ndf 1404 / 90
p0 1817 ± 1.353
1950
1900
1850
1800
1750
1700

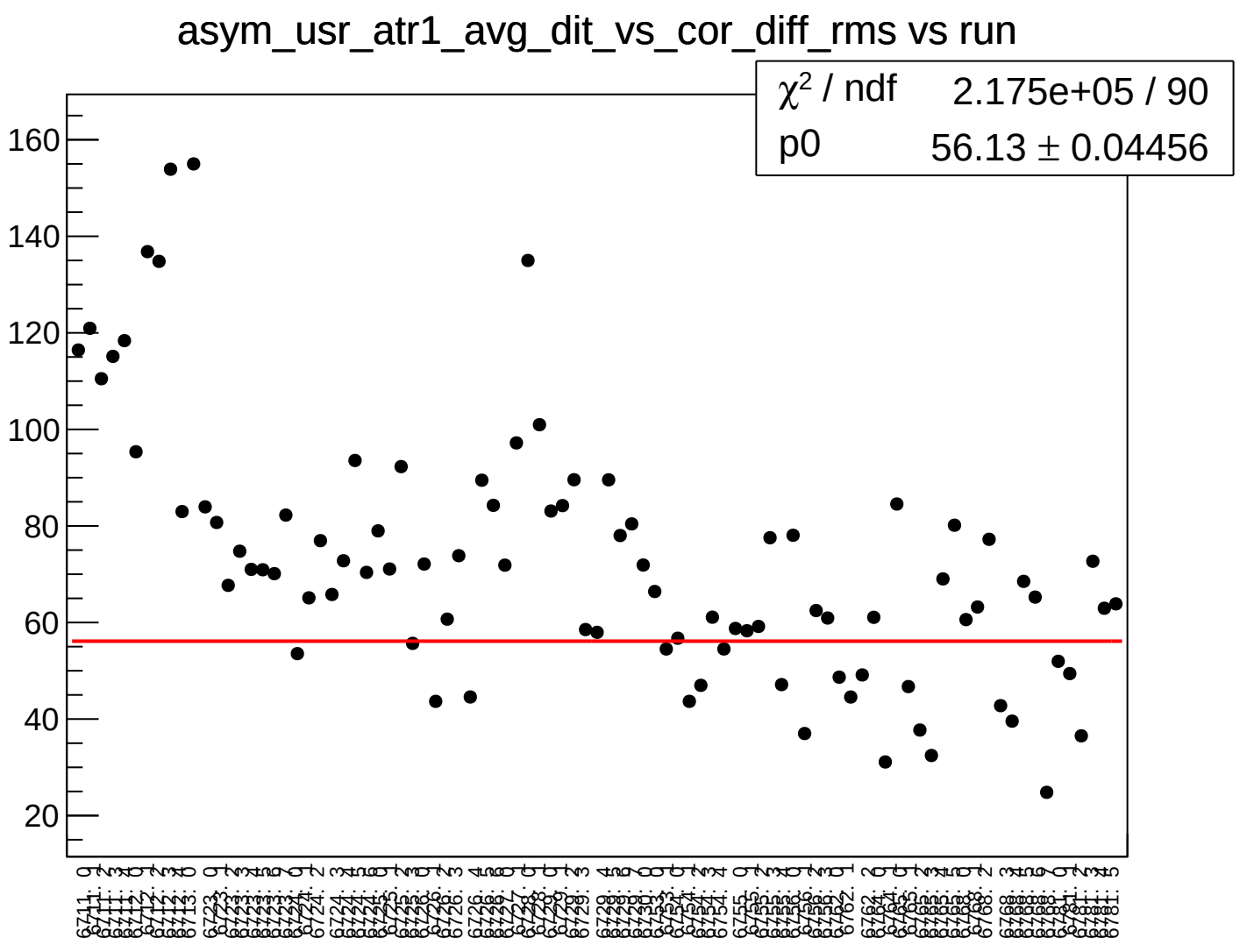

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.13 / 90
p0 −6.716e−15 ± 3.3e−14
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean 84.55
Std Dev 9.389
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

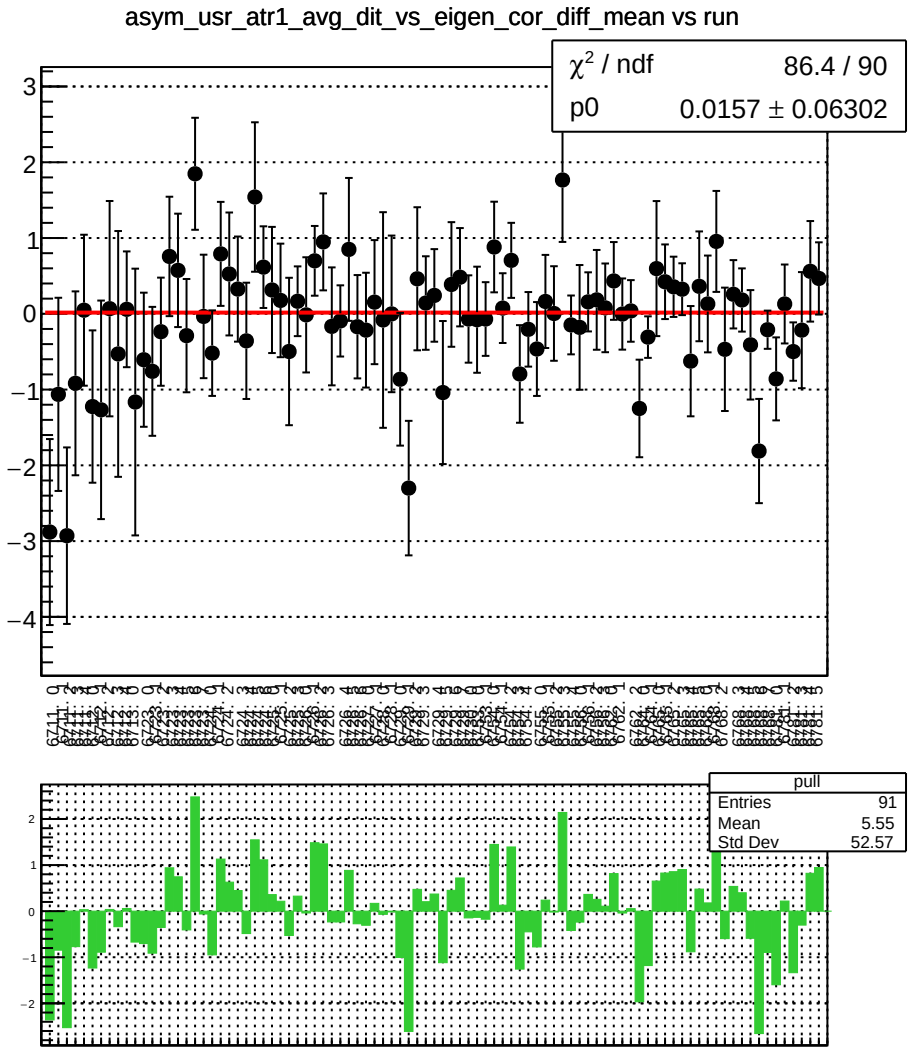

pull1D
Entries 91
Mean −0.05379
Std Dev 0.9309
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

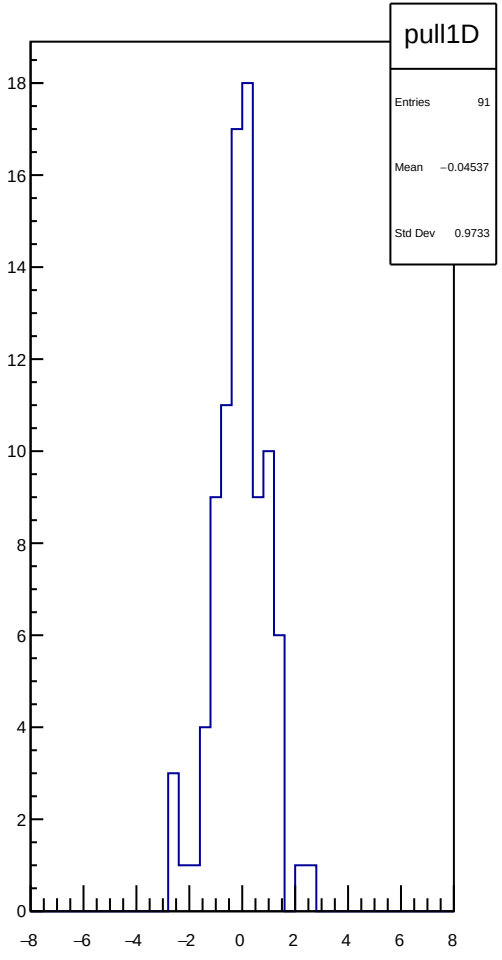

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.2e+06 / 90
p0 1.814e−11 ± 2.334e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

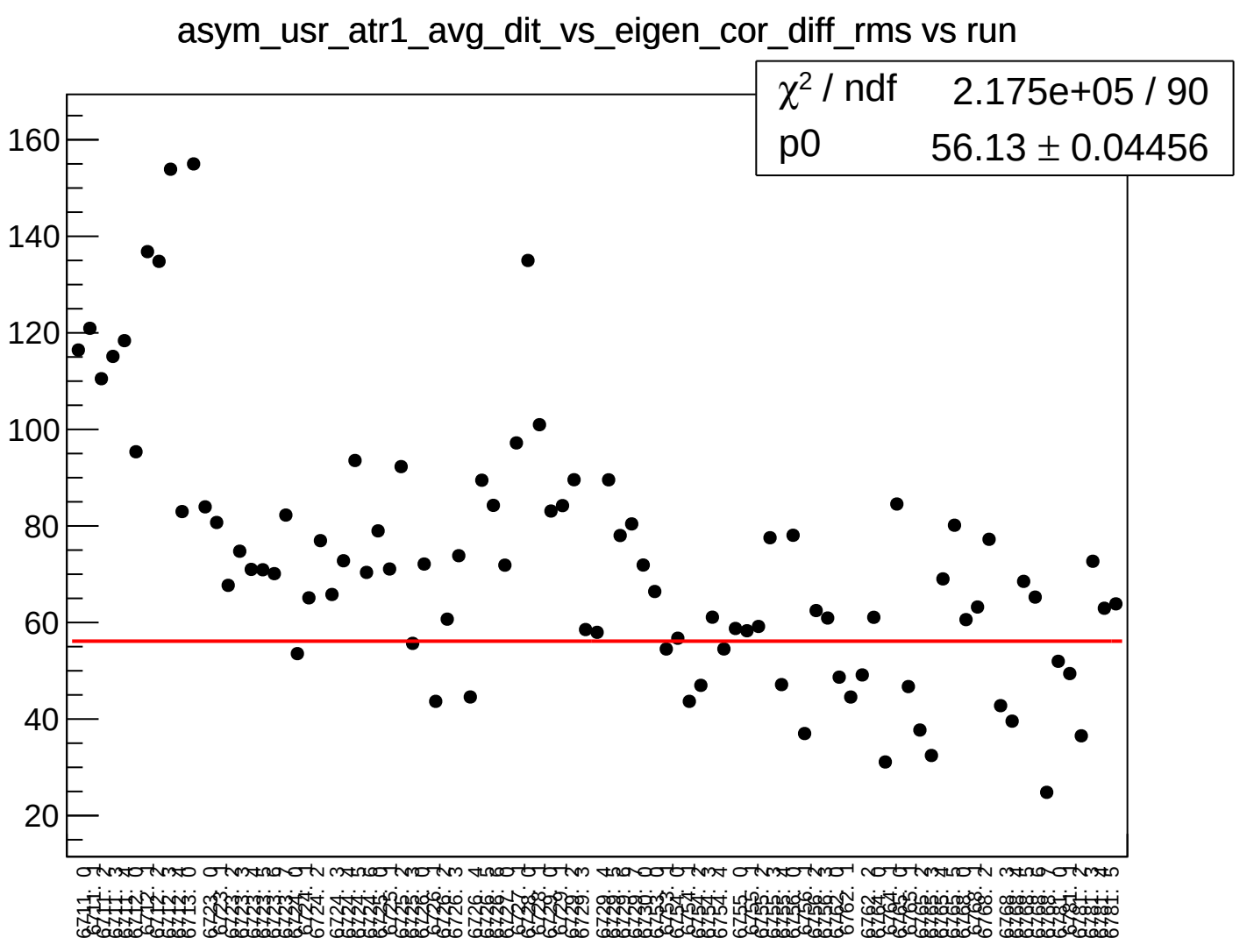

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.4 / 90
p0 0.0157 ± 0.06302
pull
Entries 91
Mean 5.55
Std Dev 52.57

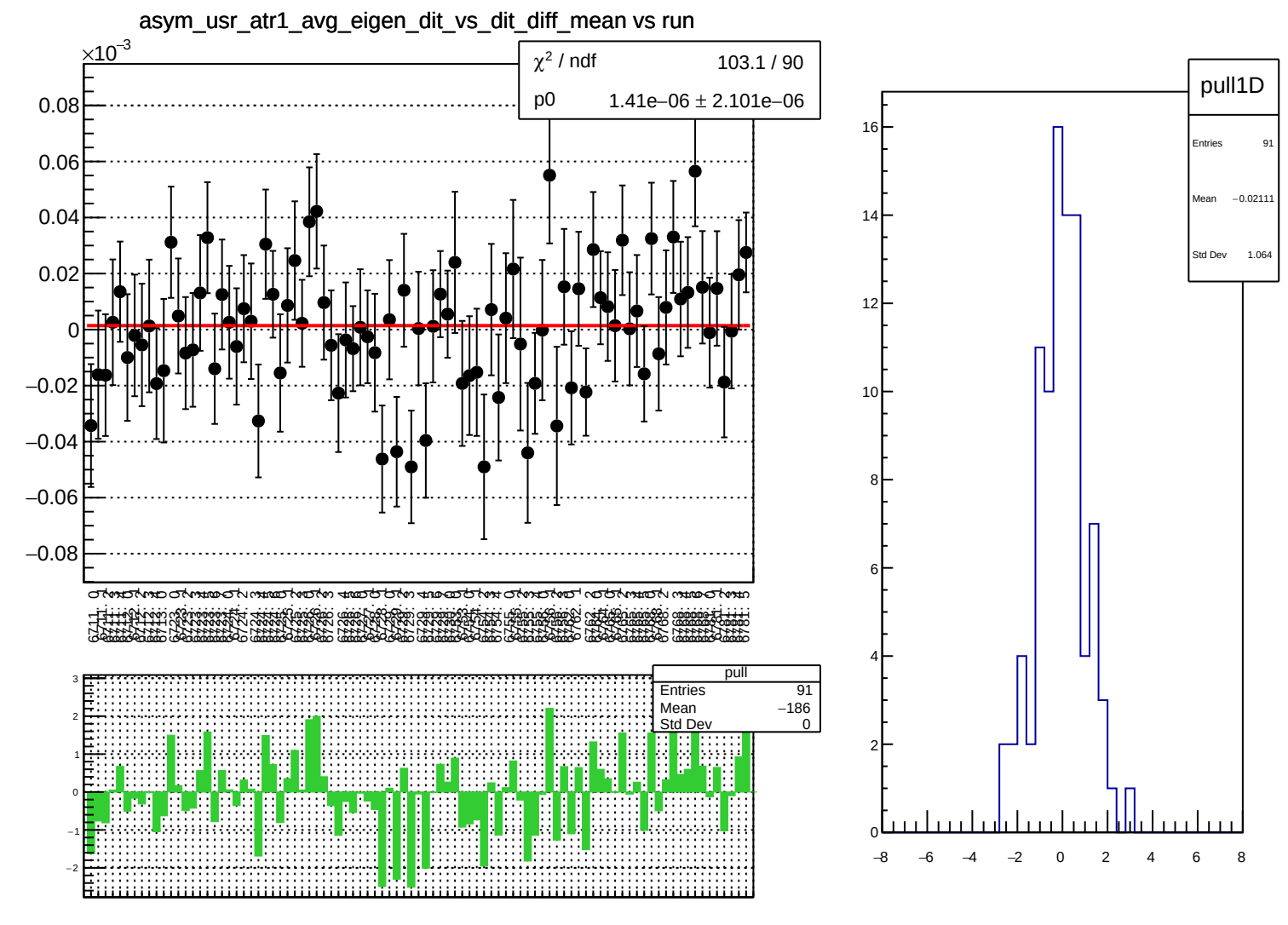

pull1D
Entries 91
Mean −0.04537
Std Dev 0.9733

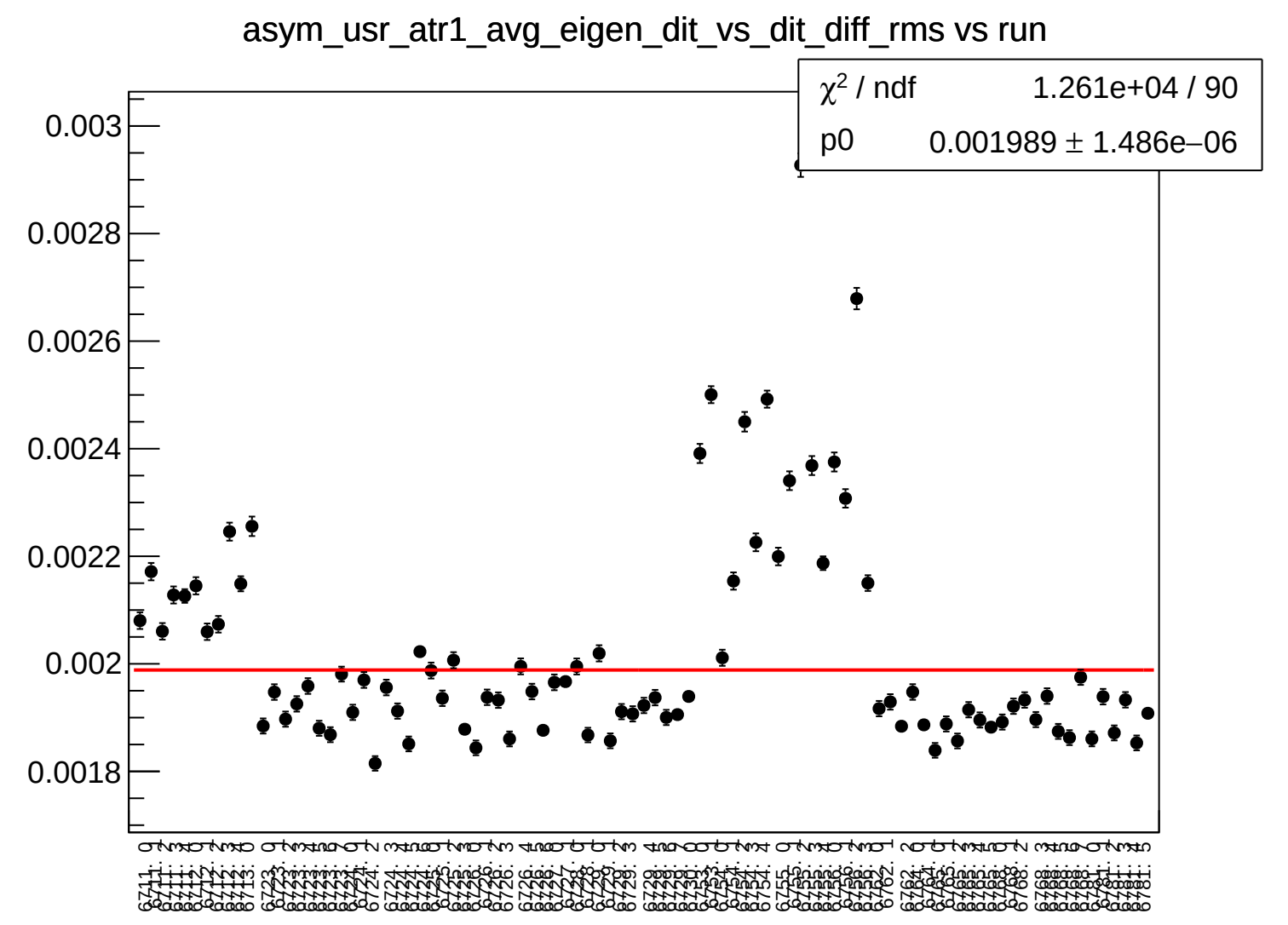

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.175e+05 / 90
p0 56.13 ± 0.04456
160
140
120
100
80
60
40
20

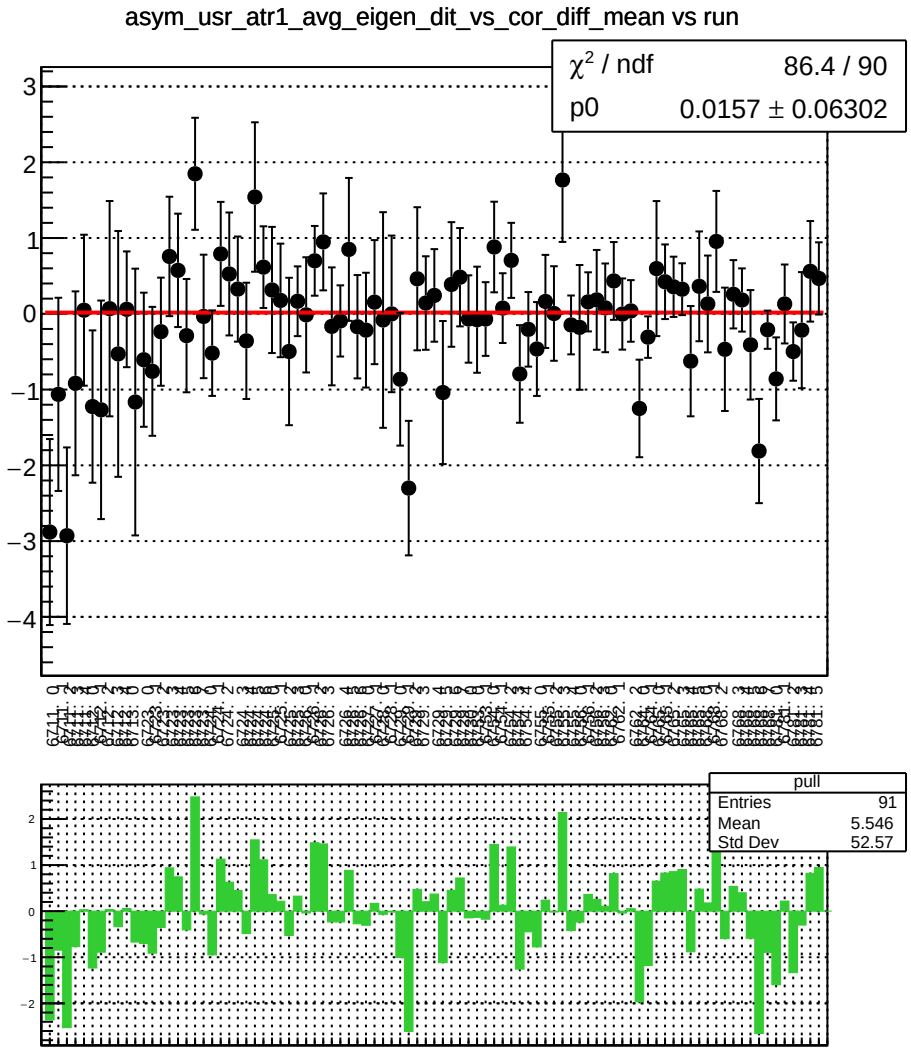

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.4 / 90
p0 0.0157 ± 0.06302
pull
Entries 91
Mean 5.55
Std Dev 52.57

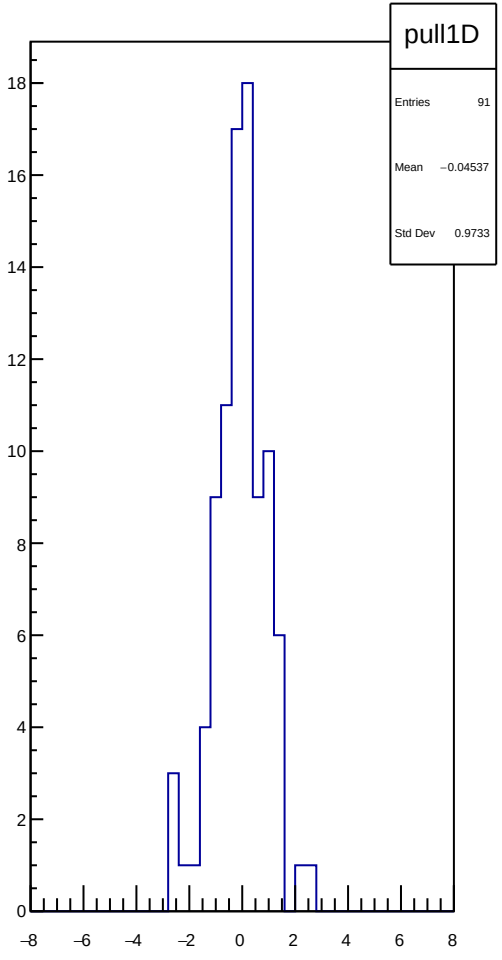

pull1D
Entries 91
Mean −0.04537
Std Dev 0.9733

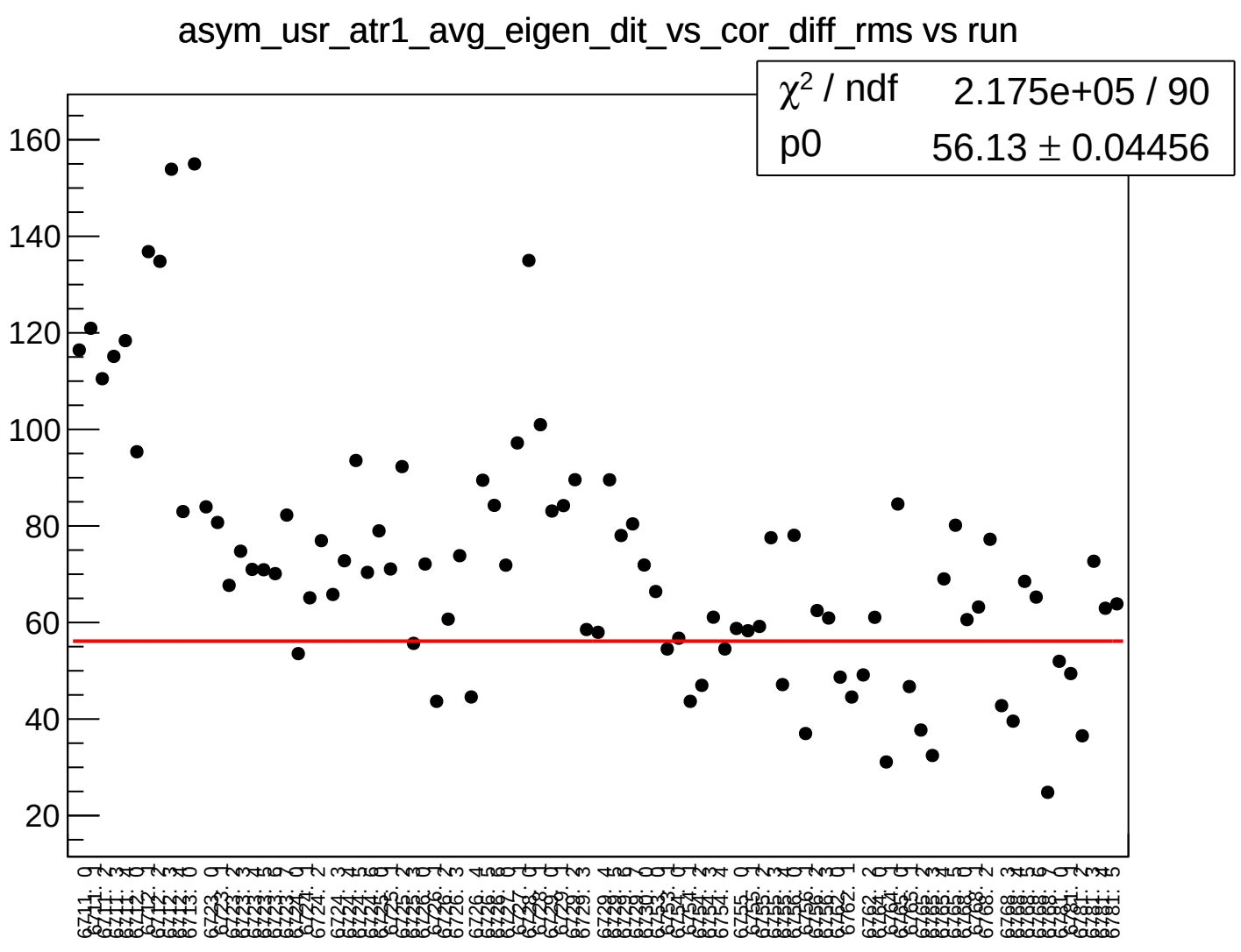

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.175e+05 / 90
p0 56.13 ± 0.04456
160
140
120
100
80
60
40
20

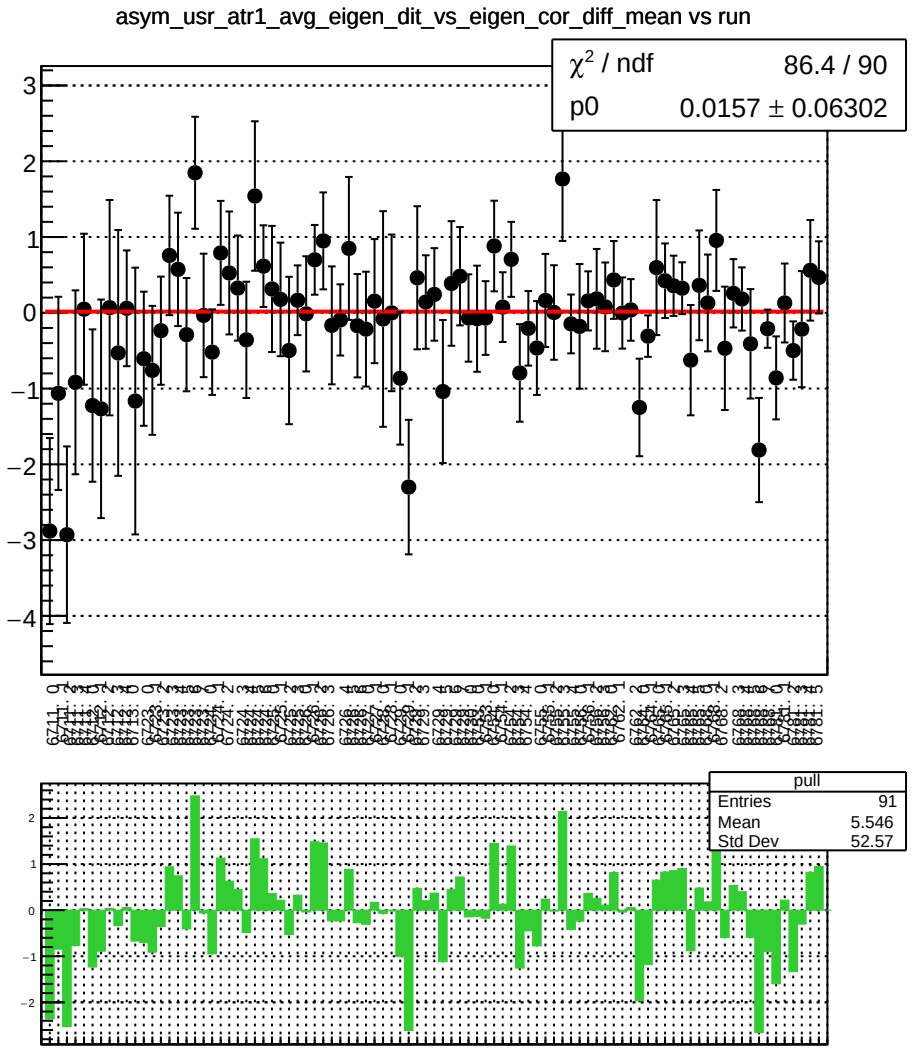

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.1 / 90
p0 1.41e−06 ± 2.101e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 91
Mean −186
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.02111
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

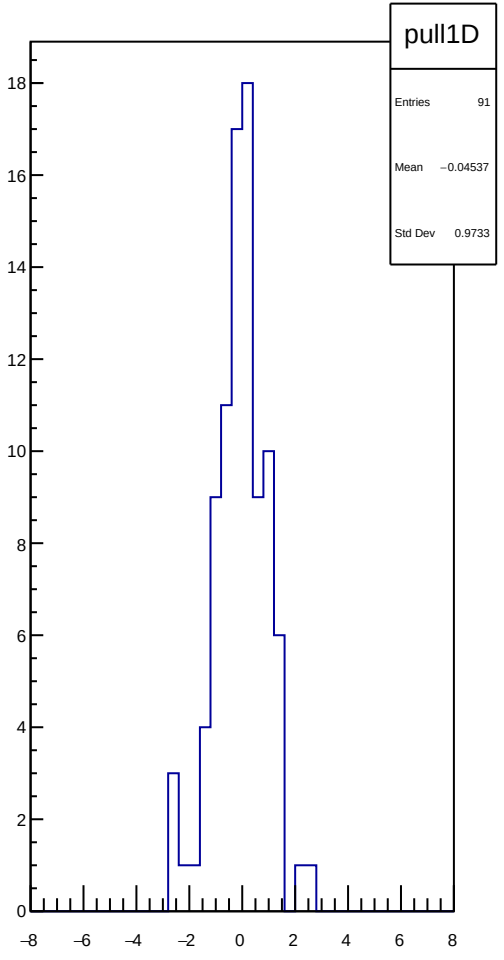

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.261e+04 / 90
p0 0.001989 ± 1.486e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

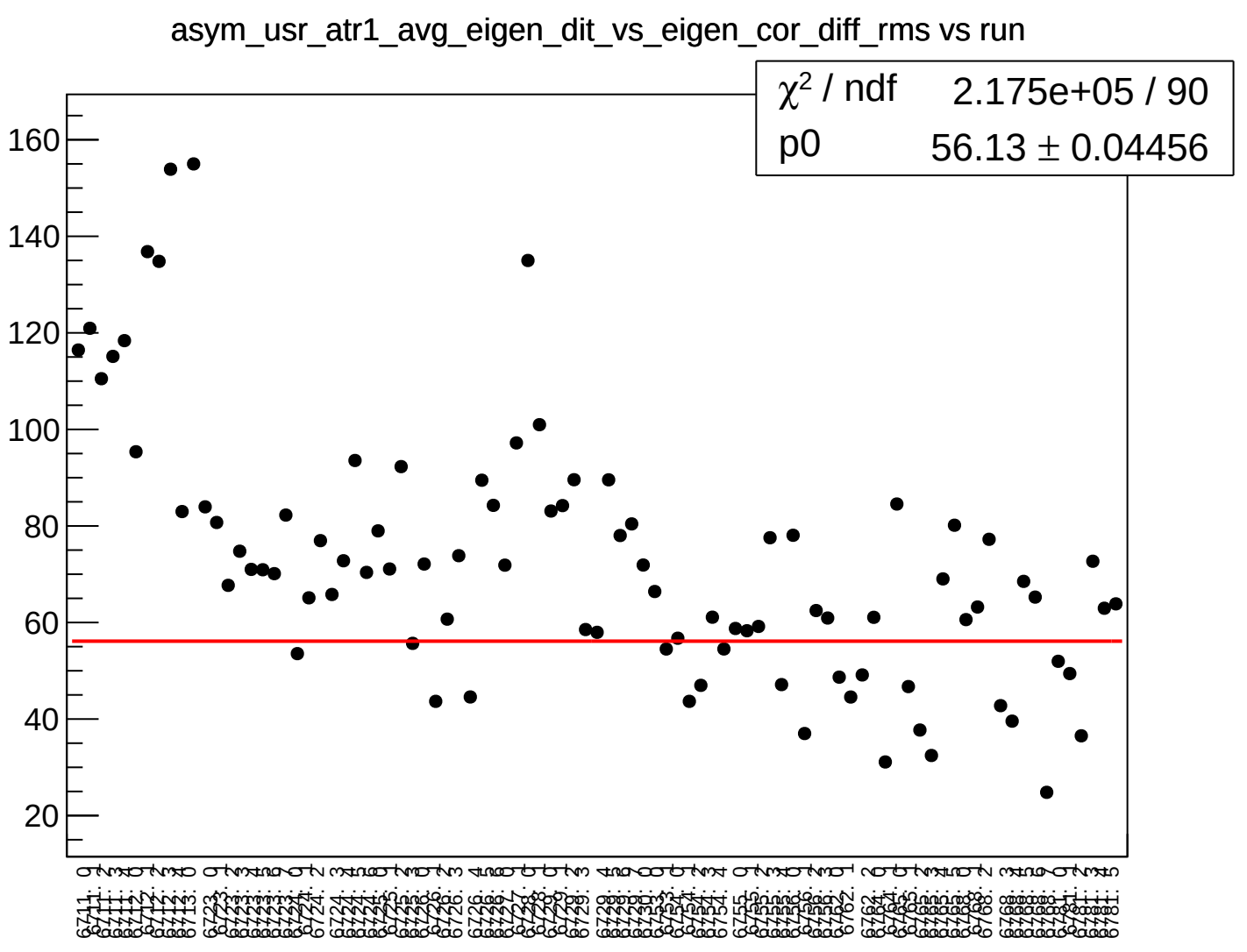

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.4 / 90
p0 0.0157 ± 0.06302
pull
Entries 91
Mean 5.546
Std Dev 52.57

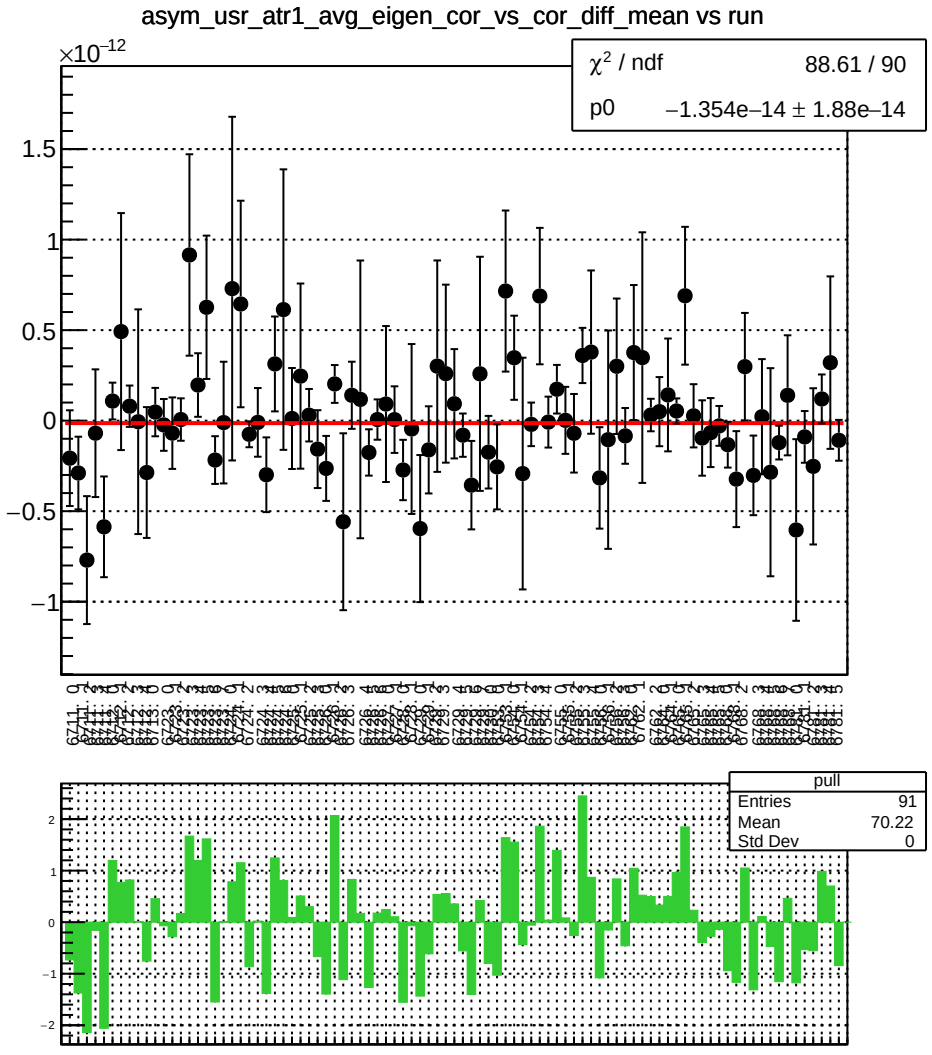

pull1D
Entries 91
Mean −0.04537
Std Dev 0.9733

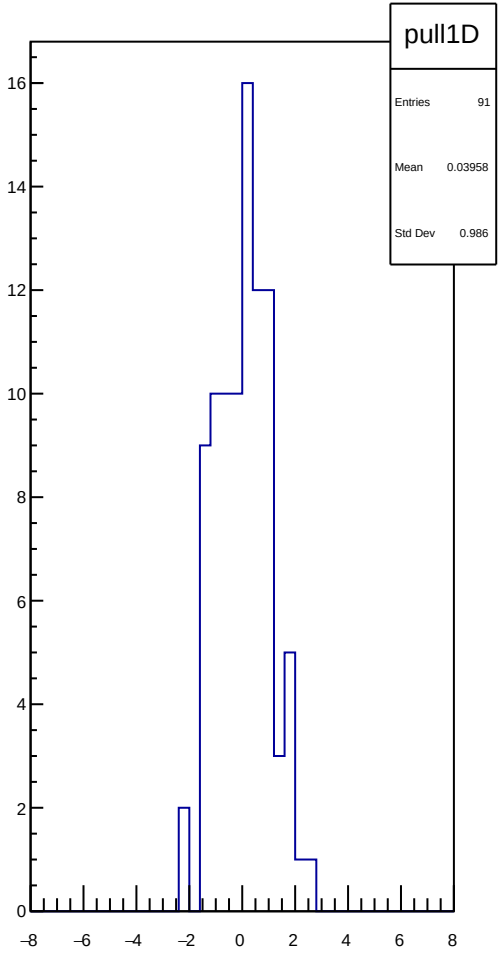

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.175e+05 / 90
p0 56.13 ± 0.04456
160
140
120
100
80
60
40
20

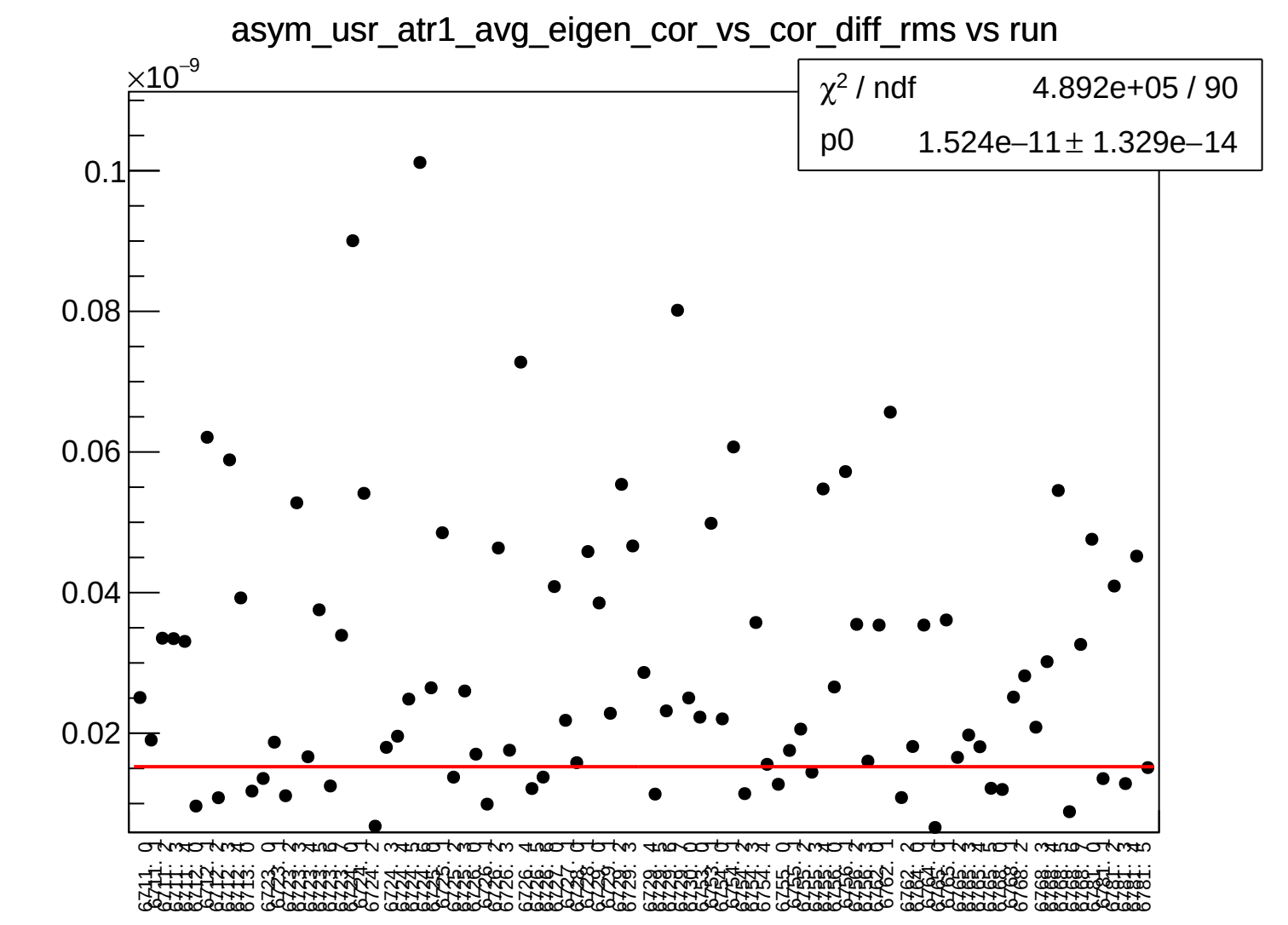

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.4 / 90
p0 0.0157 ± 0.06302
pull
Entries 91
Mean 5.546
Std Dev 52.57

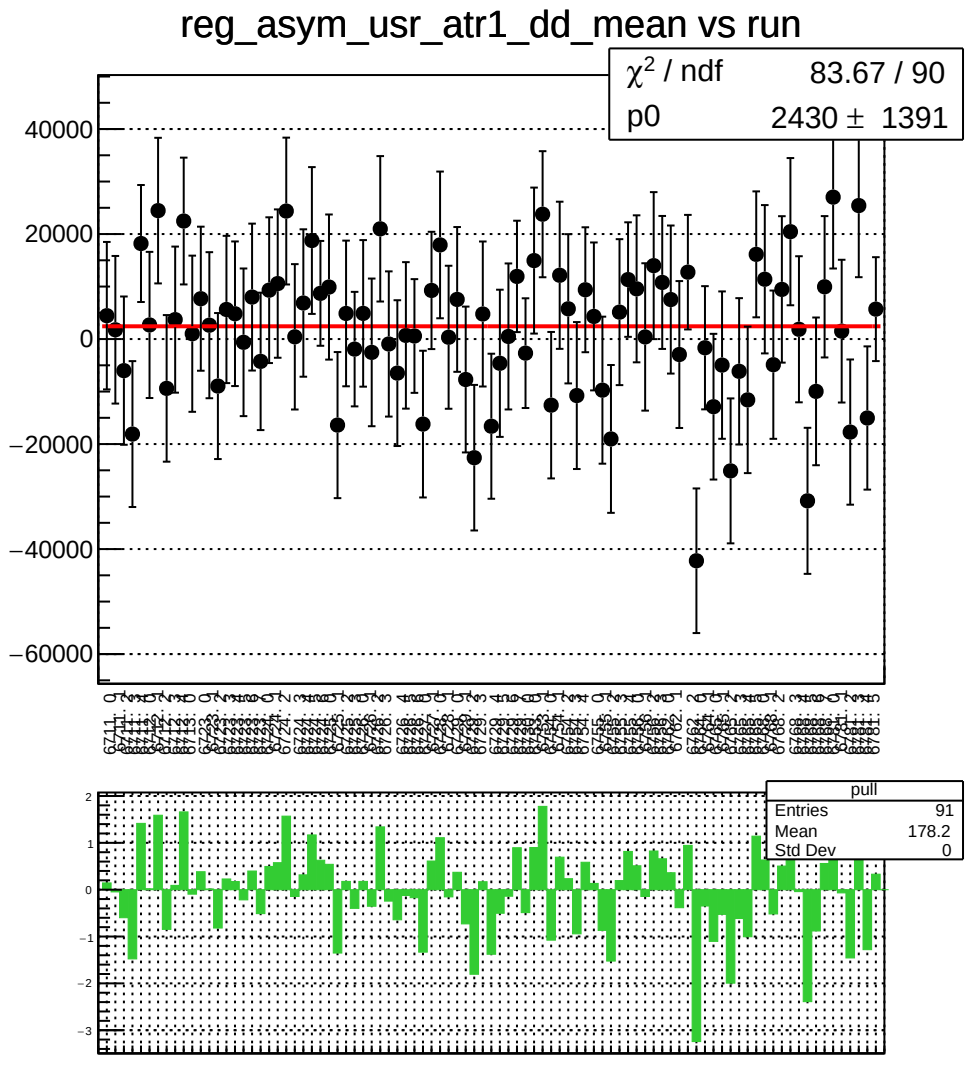

pull1D
Entries 91
Mean −0.04537
Std Dev 0.9733

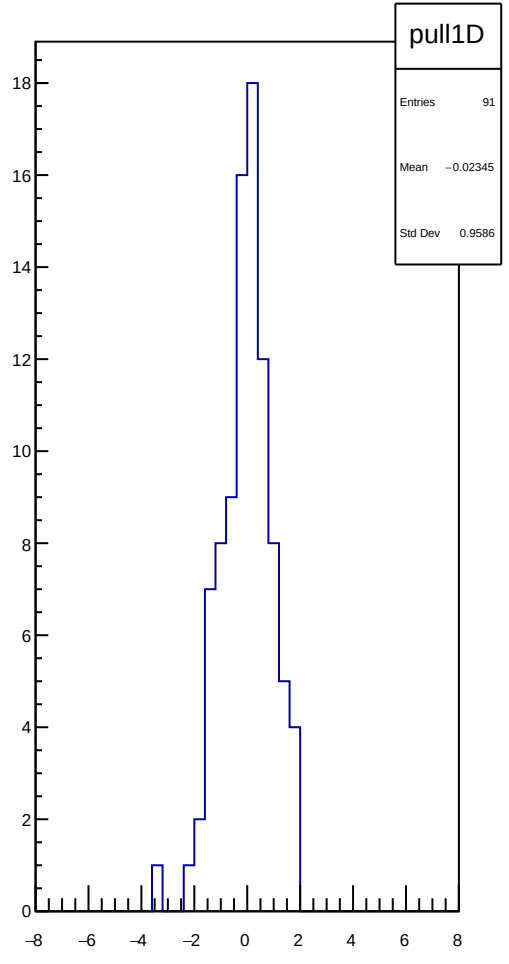

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.175e+05 / 90
p0 56.13 ± 0.04456
160
140
120
100
80
60
40
20

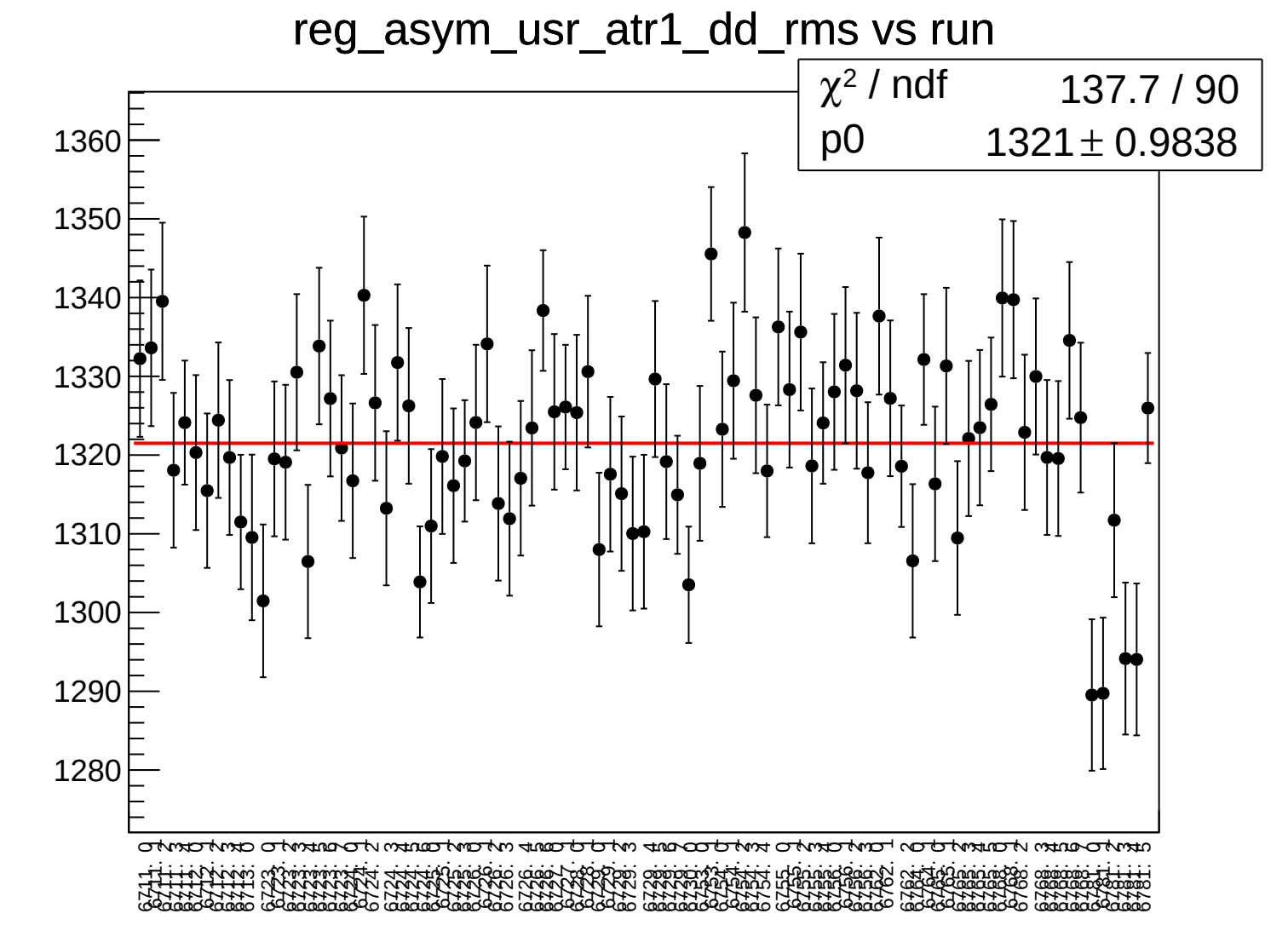

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.61 / 90
p0 −1.354e−14 ± 1.88e−14
pull
Entries 91
Mean 70.22
Std Dev 0

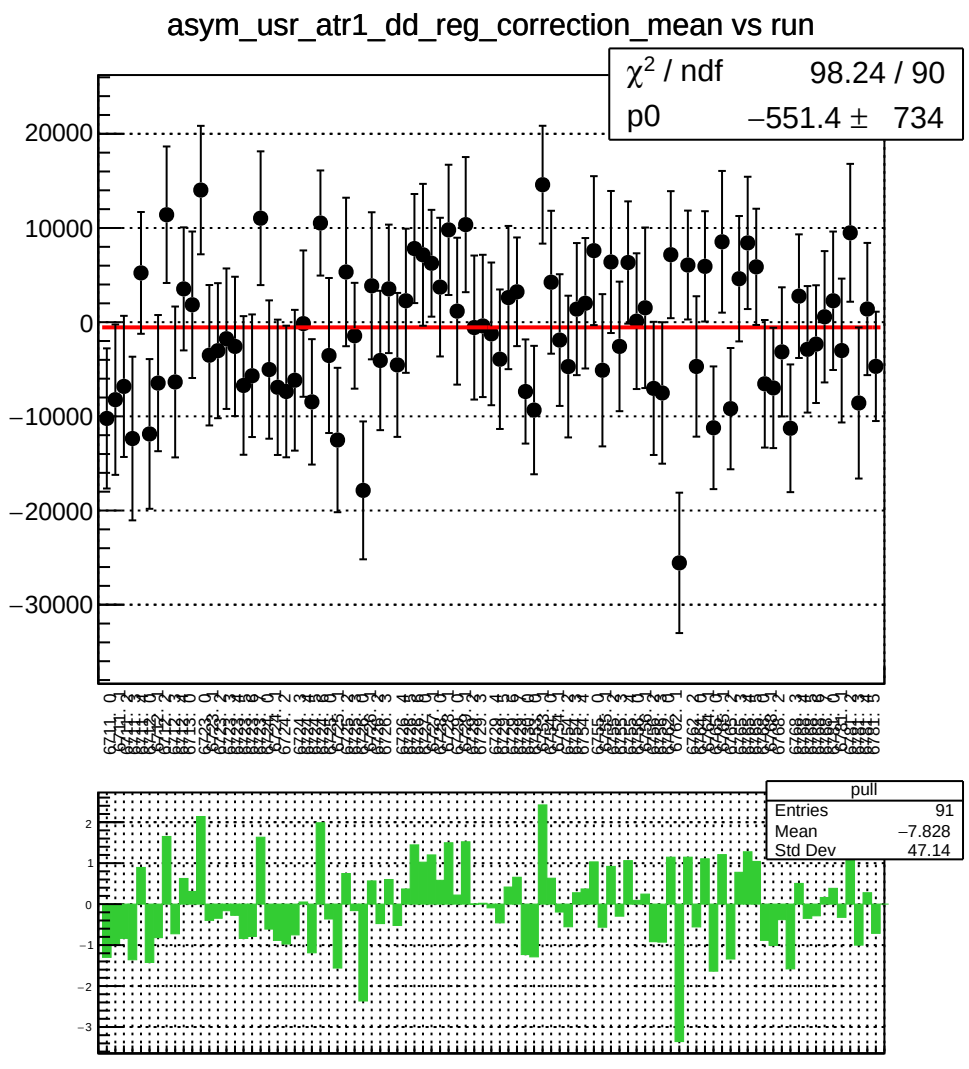

pull1D
Entries 91
Mean 0.03958
Std Dev 0.986

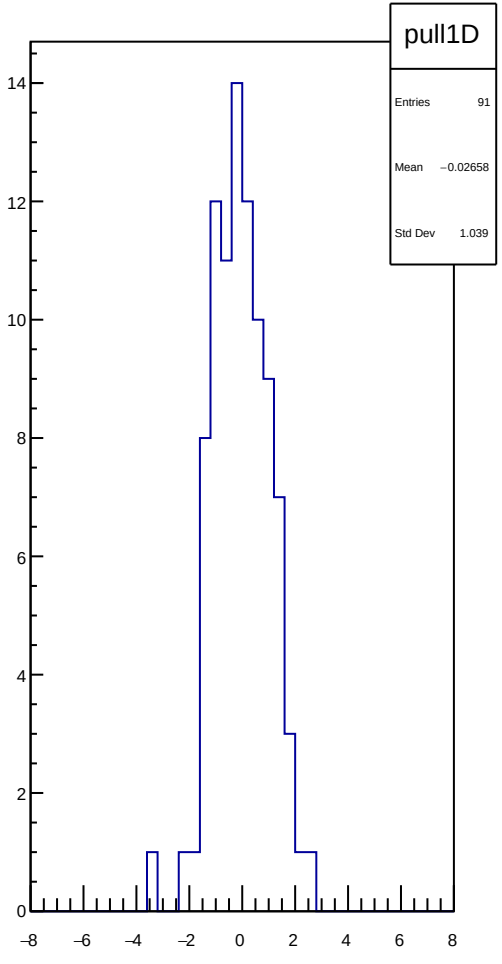

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.892e+05 / 90
p0 1.524e−11 ± 1.329e−14
0.1
0.08
0.06
0.04
0.02

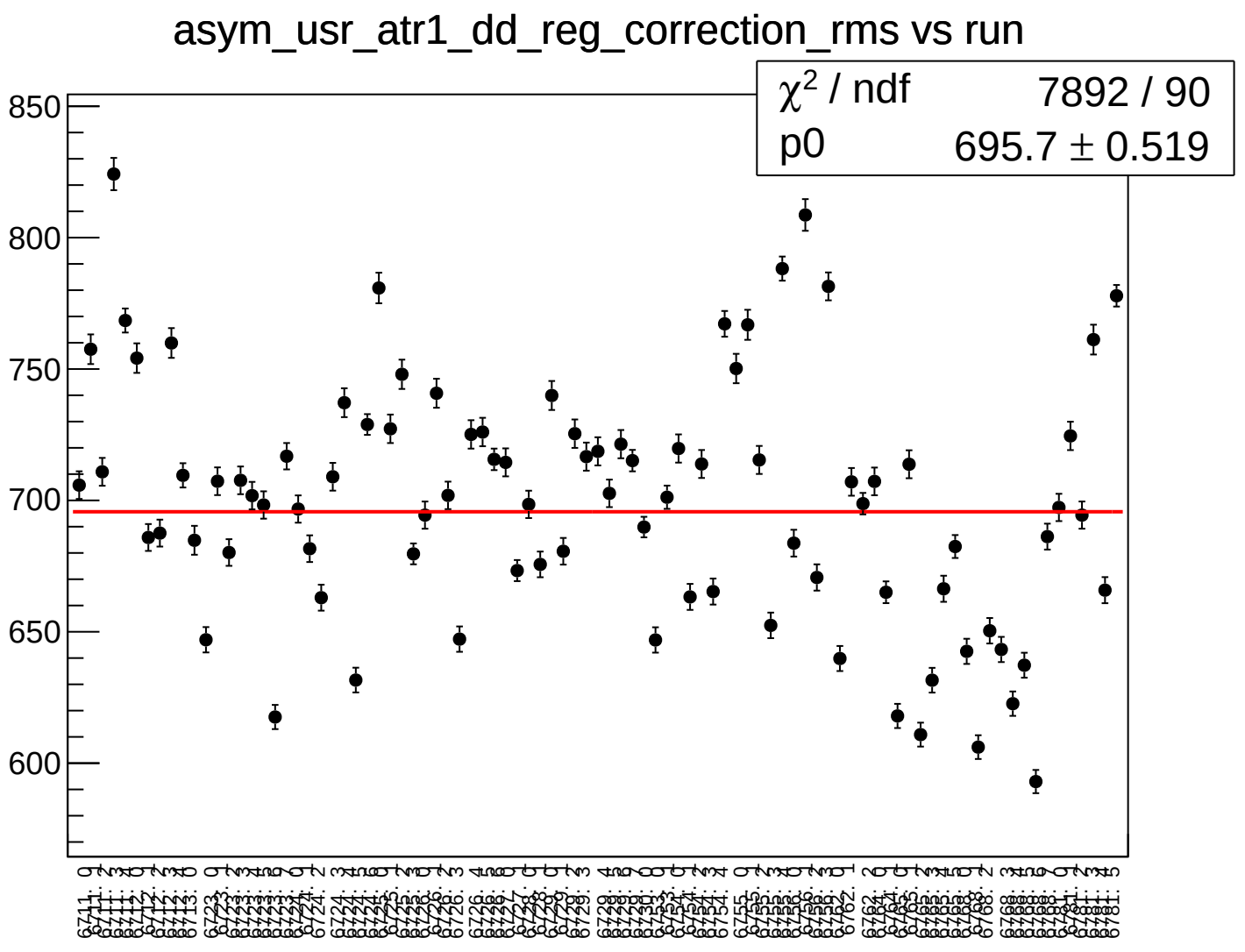

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 83.67 / 90
p0 2430 ± 1391
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 178.2
Std Dev 0
2
1
0
−1
−2
−3

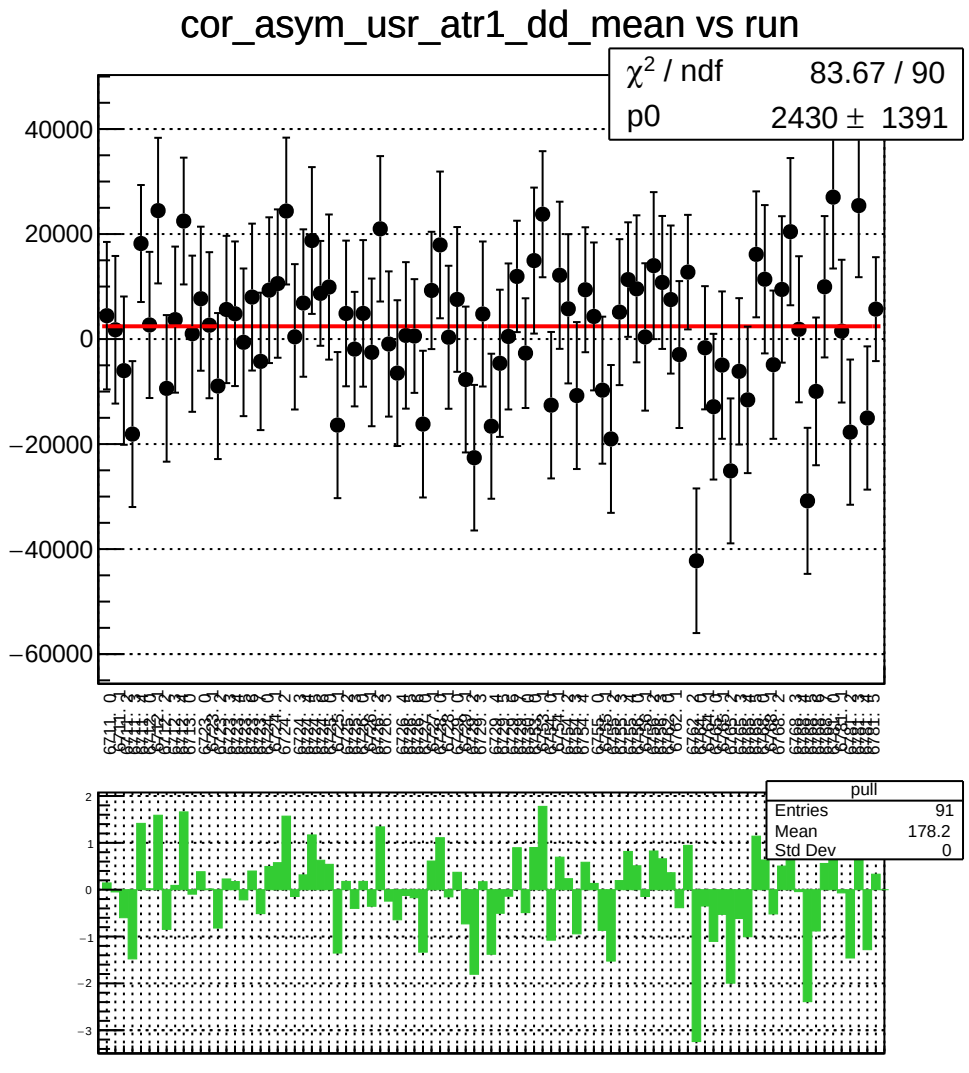

pull1D
Entries 91
Mean −0.02345
Std Dev 0.9586
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

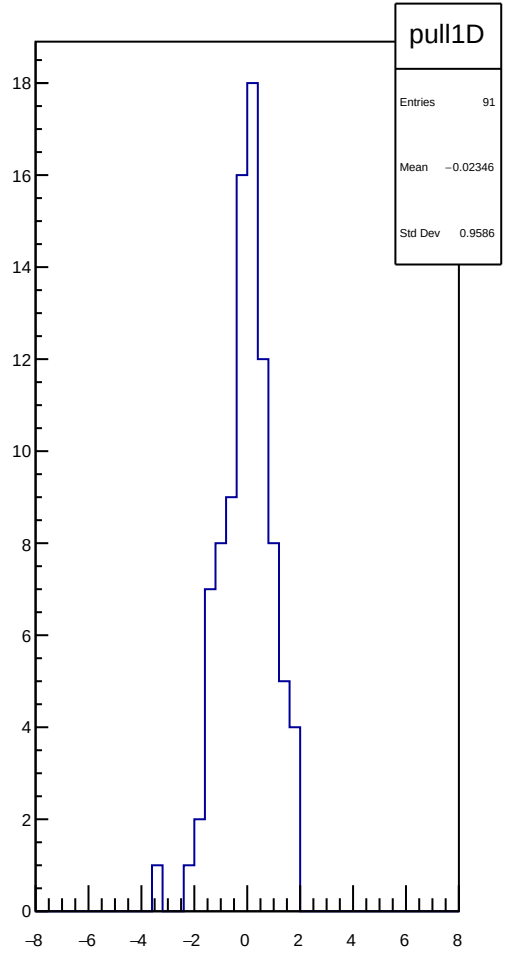

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 137.7 / 90
p0 1321 ± 0.9838
1360
1350
1340
1330
1320
1310
1300
1290
1280

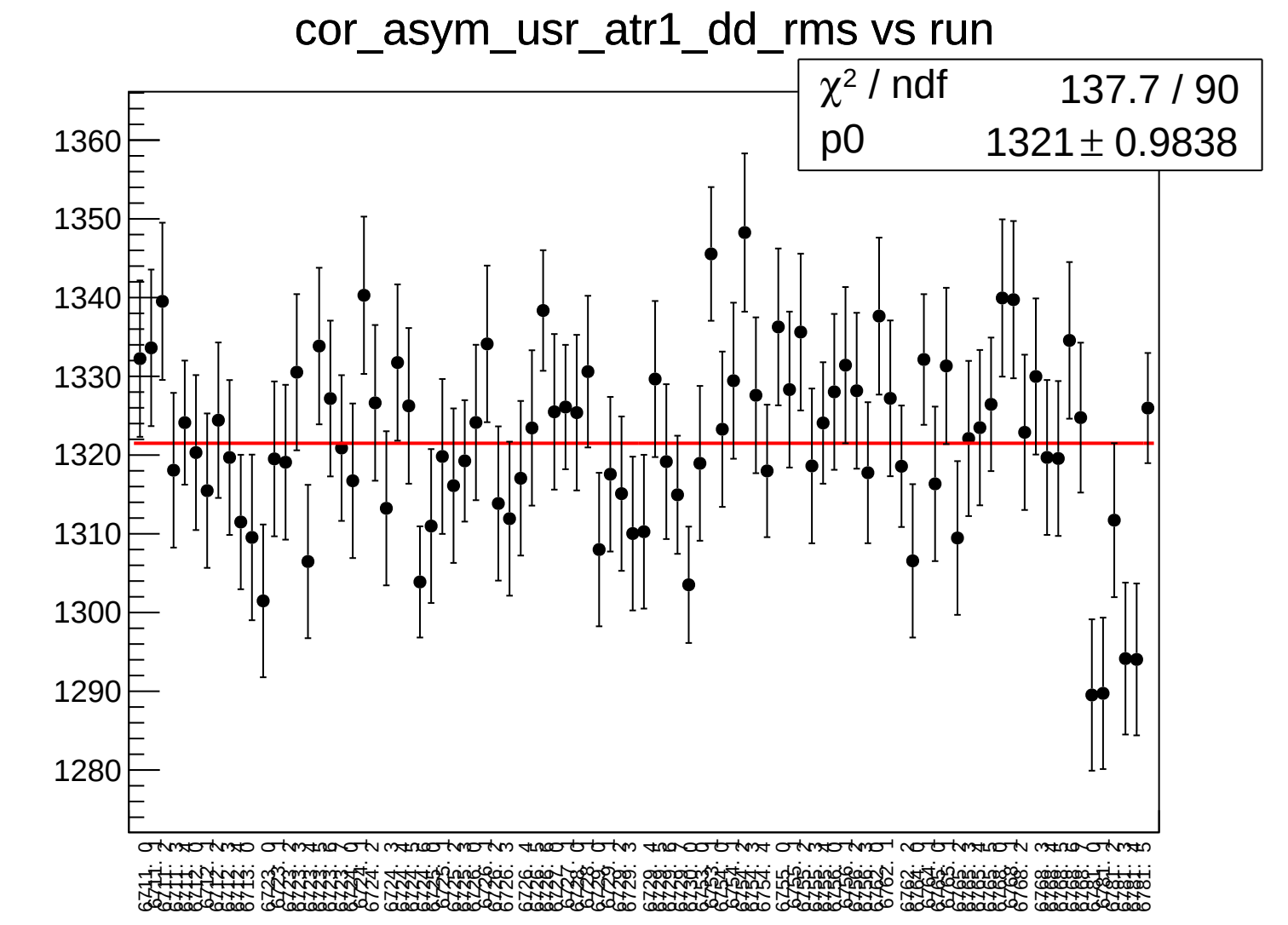

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 98.24 / 90
p0 −551.4 ± 734
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −7.828
Std Dev 47.14
2
1
0
−1
−2
−3

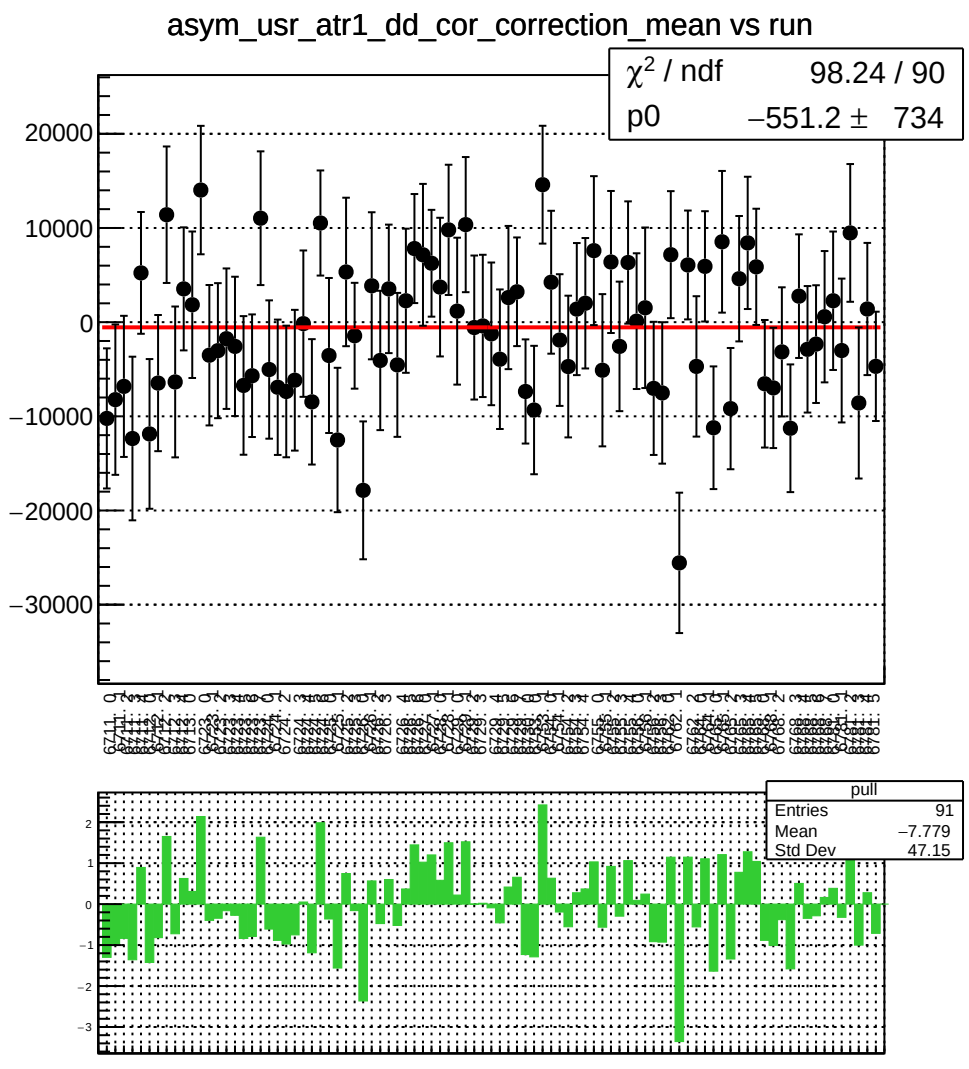

pull1D
Entries 91
Mean −0.02658
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

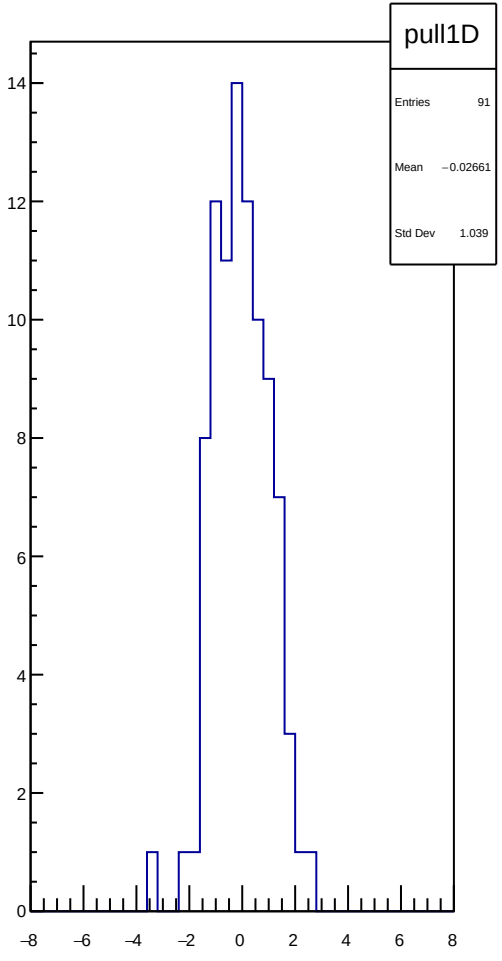

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 7892 / 90
p0 695.7 ± 0.519
850
800
750
700
650
600

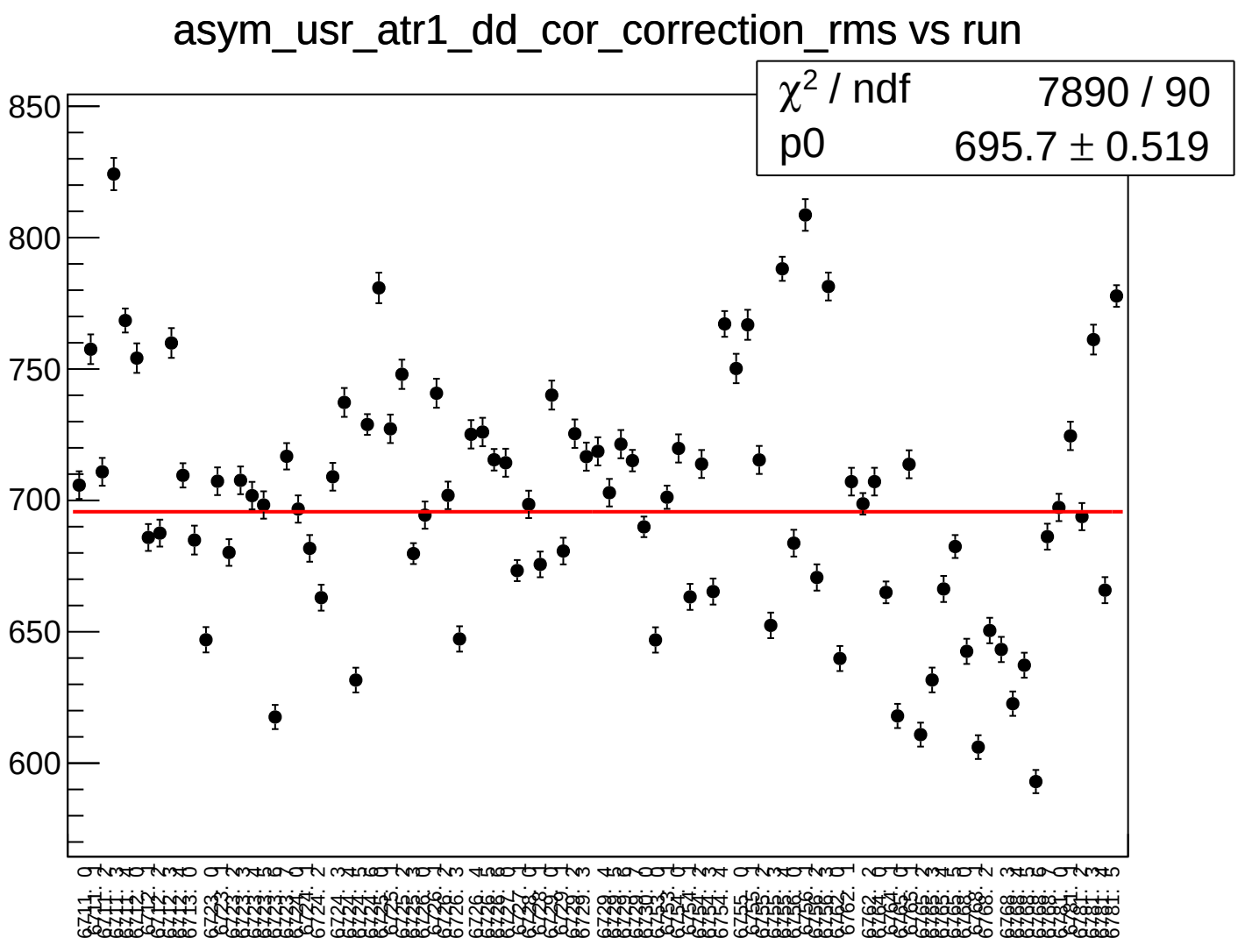

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 83.67 / 90
p0 2430 ± 1391
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 178.2
Std Dev 0
2
1
0
−1
−2
−3

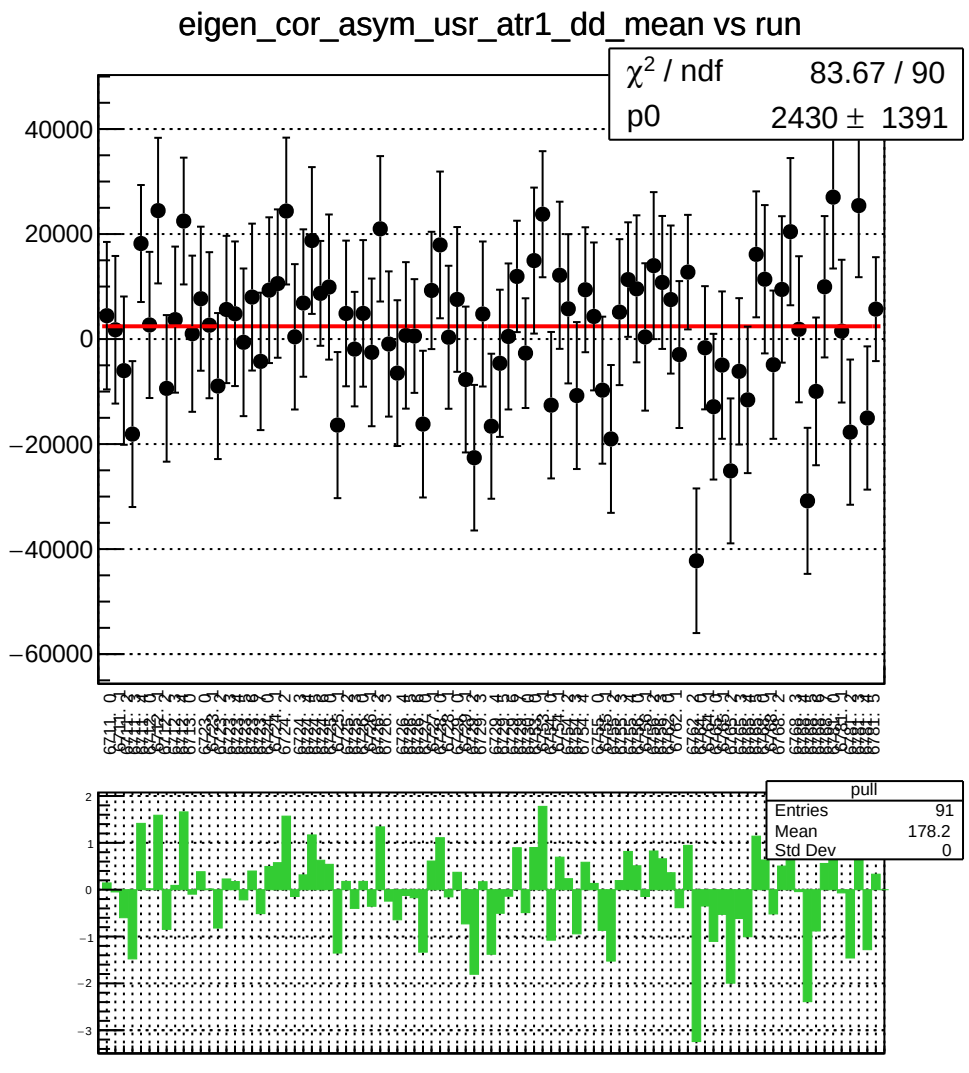

pull1D
Entries 91
Mean −0.02346
Std Dev 0.9586
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

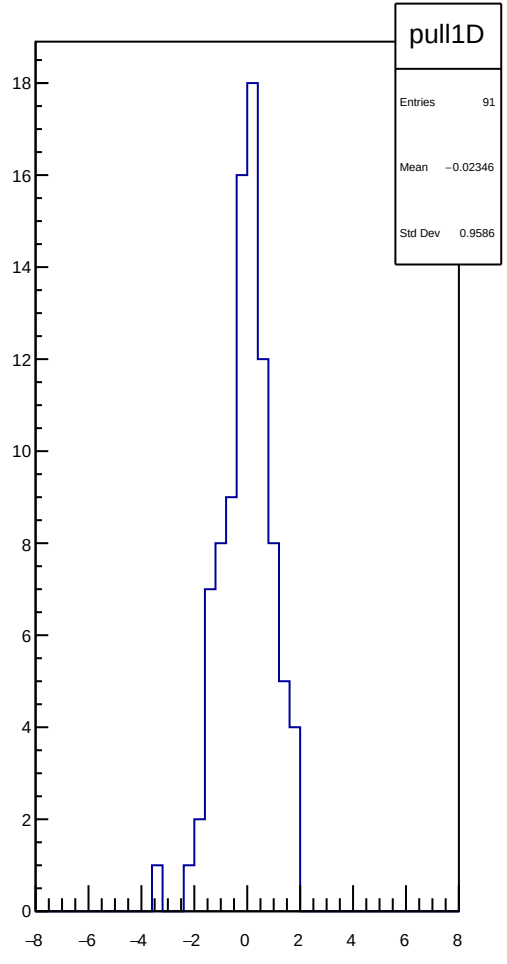

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 137.7 / 90
p0 1321 ± 0.9838
1360
1350
1340
1330
1320
1310
1300
1290
1280

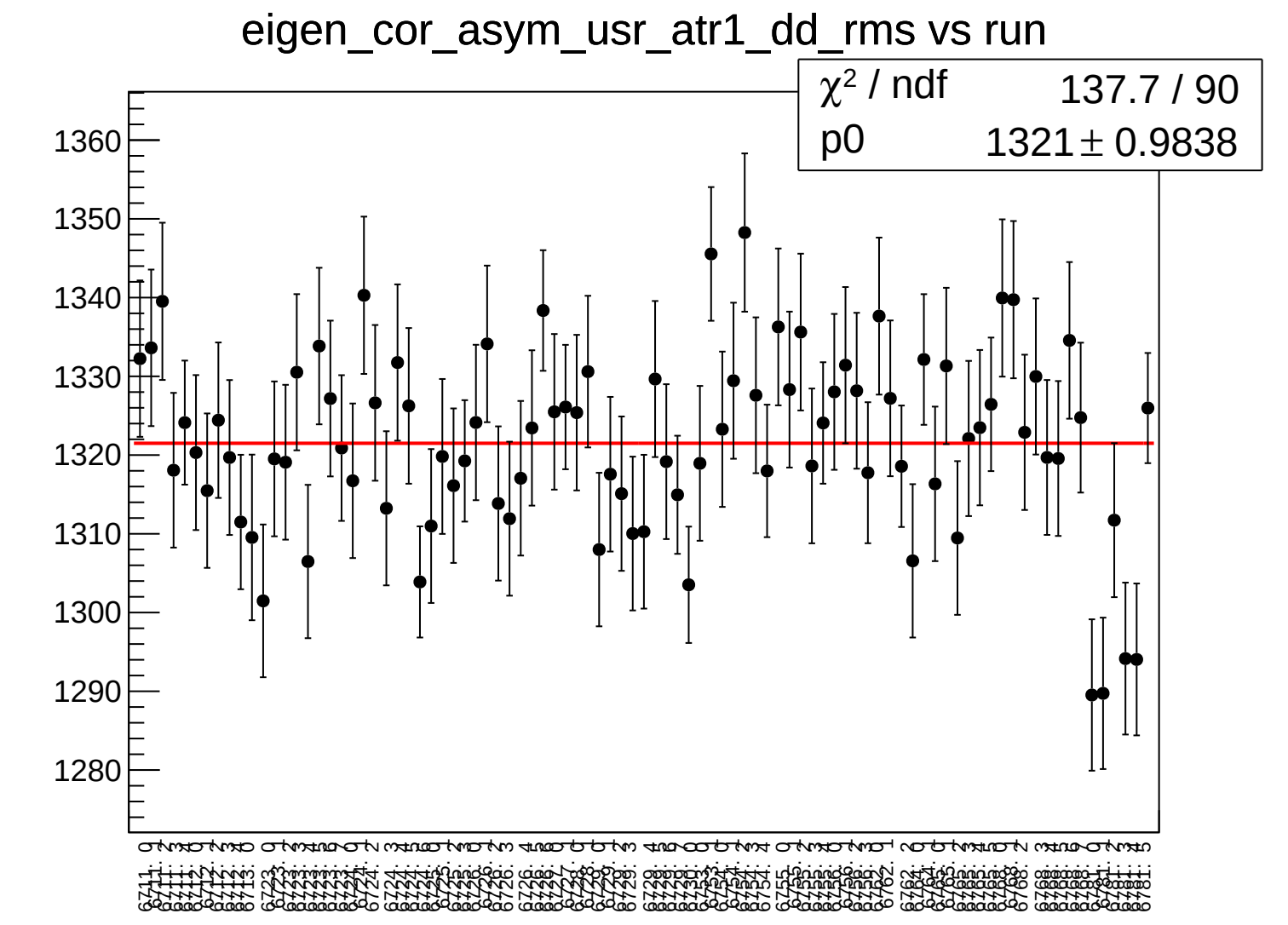

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 98.24 / 90
p0 −551.2 ± 734
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −7.779
Std Dev 47.15
2
1
0
−1
−2
−3

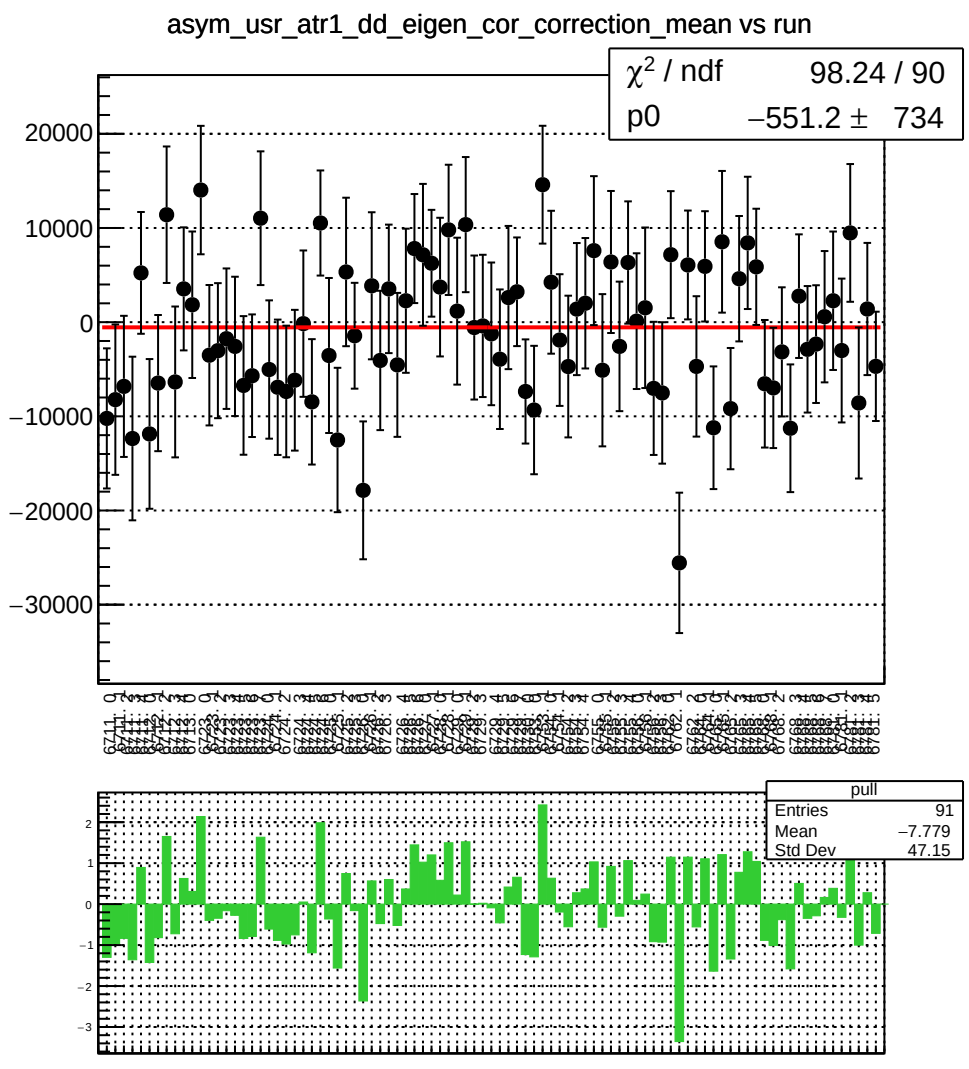

pull1D
Entries 91
Mean −0.02661
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

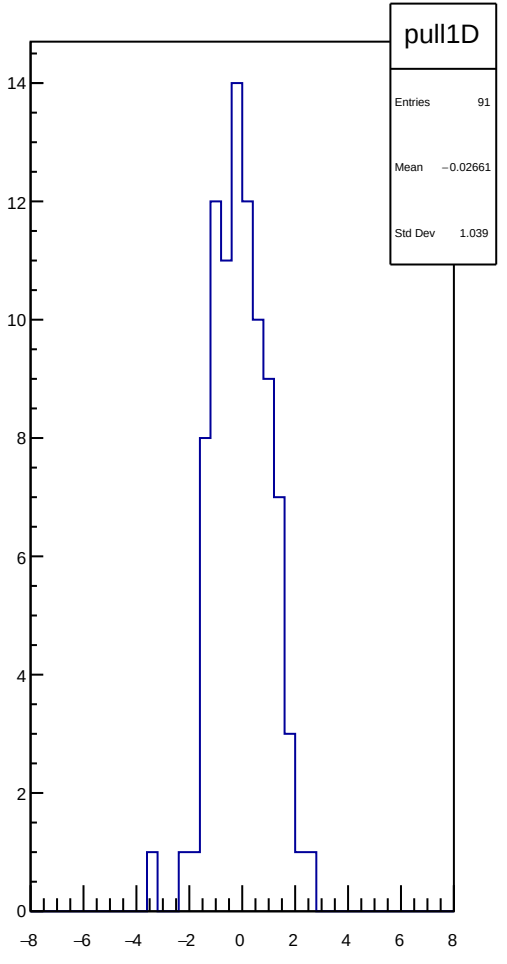

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 7890 / 90
p0 695.7 ± 0.519
850
800
750
700
650
600

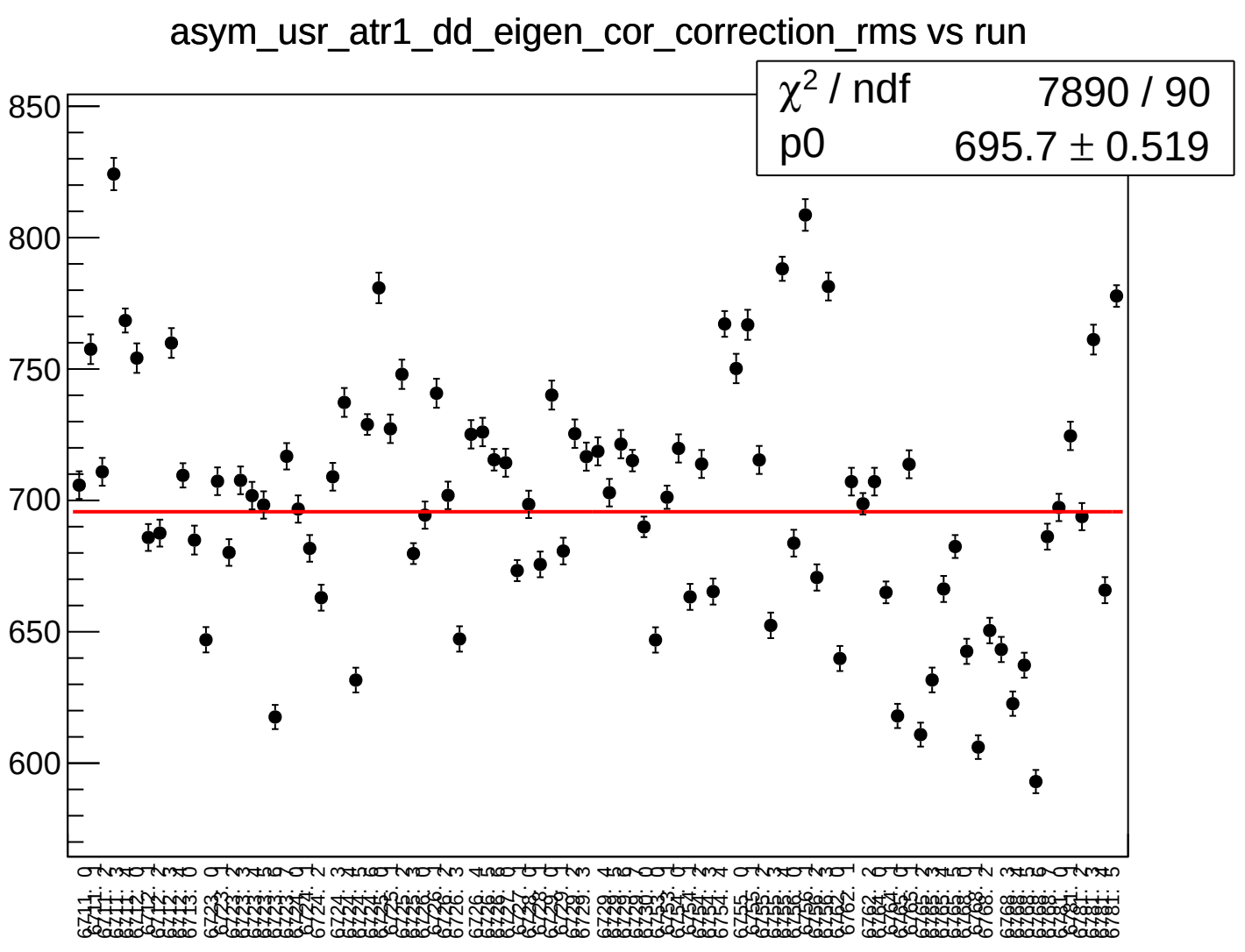

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 83.67 / 90
p0 2430 ± 1391
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 178.2
Std Dev 0
2
1
0
−1
−2
−3

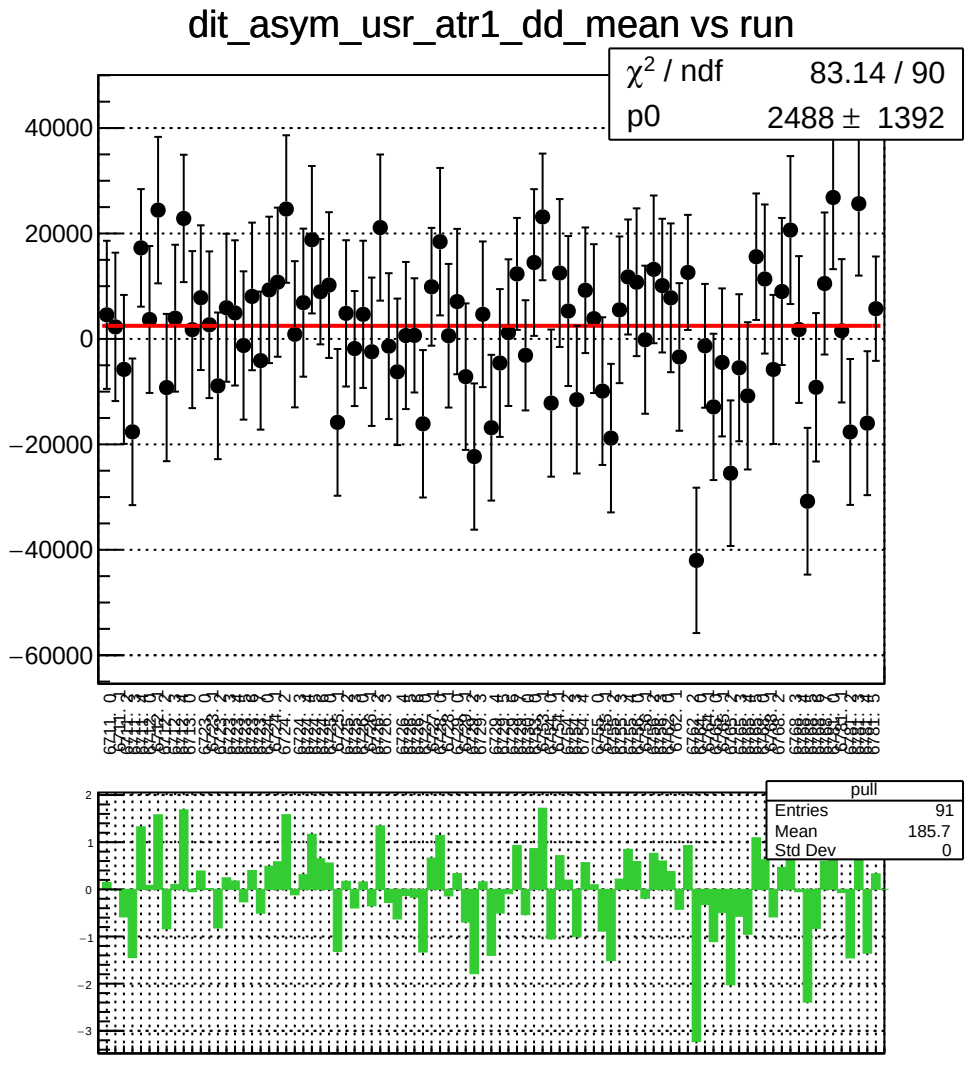

pull1D
Entries 91
Mean −0.02346
Std Dev 0.9586
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

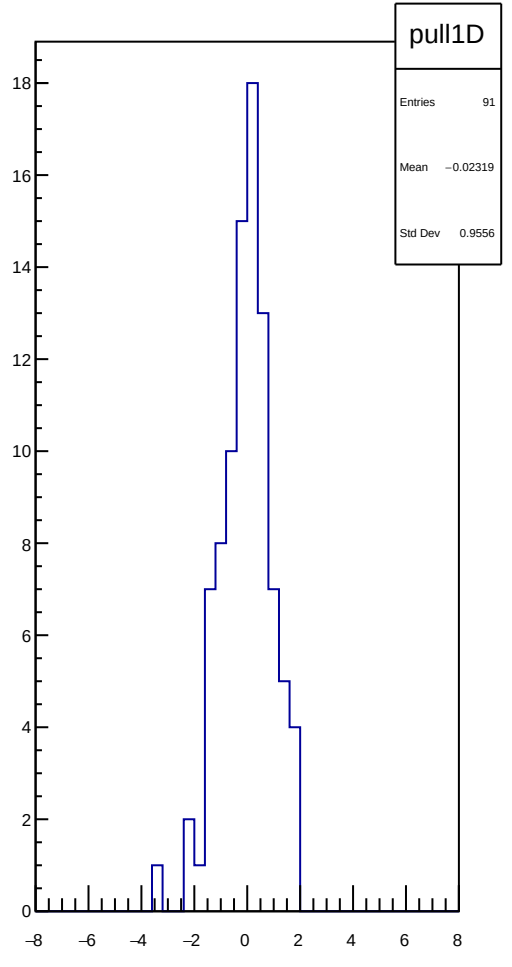

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 137.7 / 90
p0 1321 ± 0.9838
1360
1350
1340
1330
1320
1310
1300
1290
1280

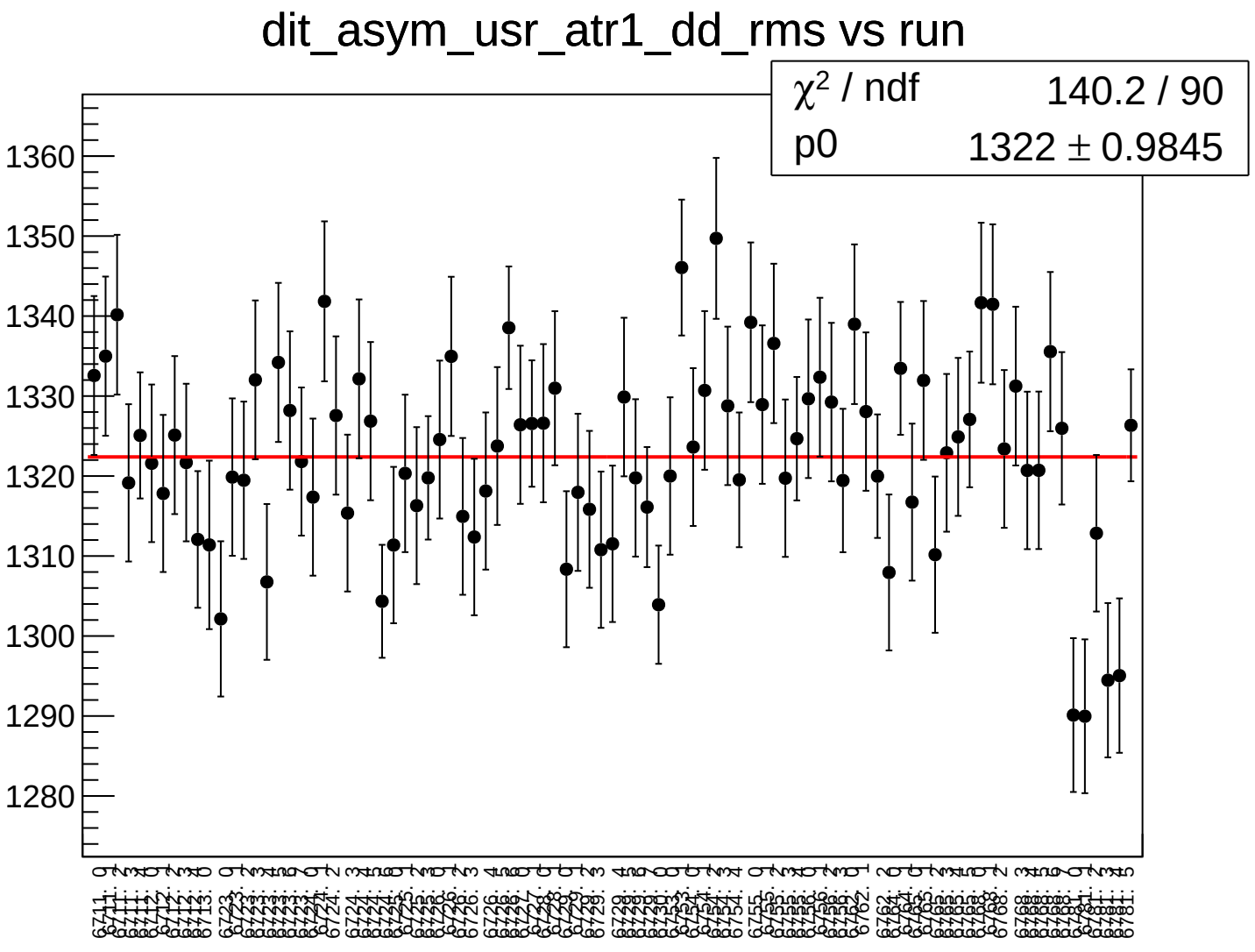

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.24 / 90
p0 −551.2 ± 734
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −7.779
Std Dev 47.15
2
1
0
−1
−2
−3

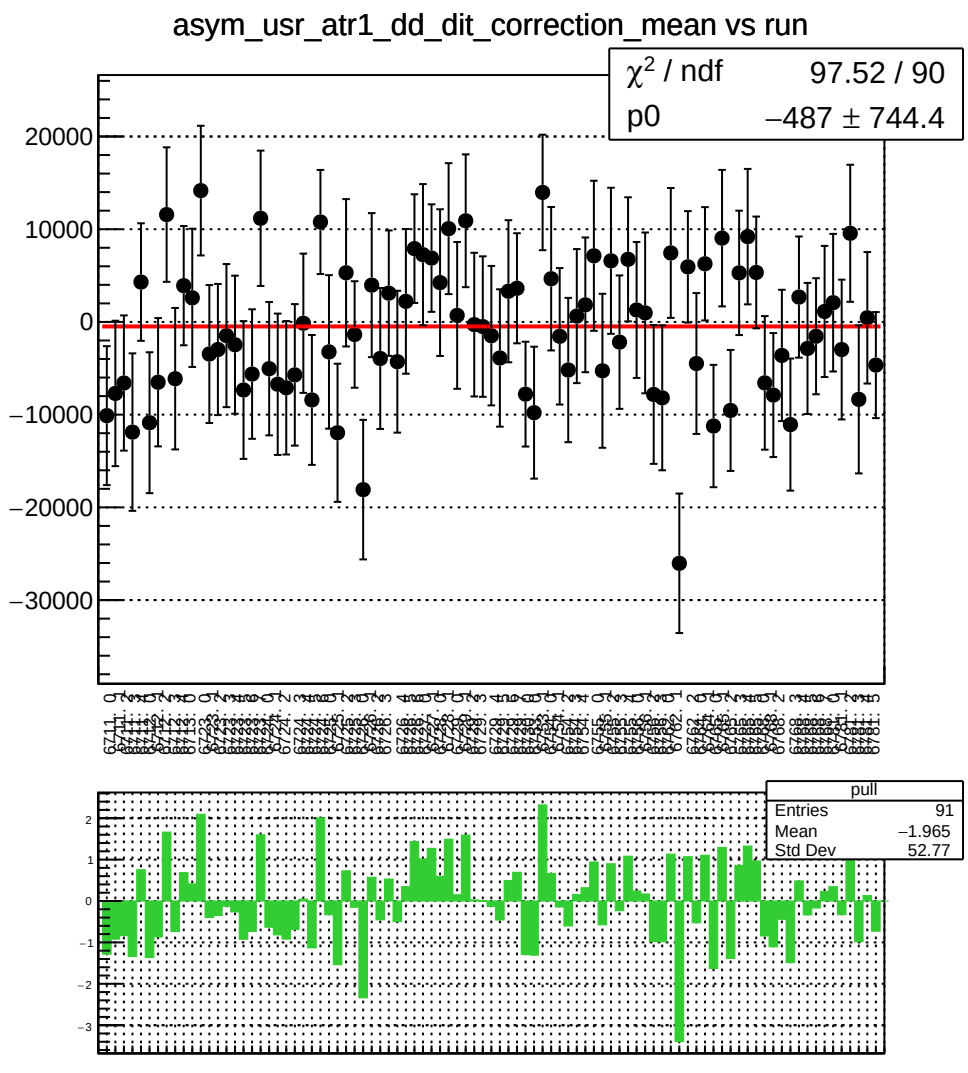

pull1D
Entries 91
Mean −0.02661
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

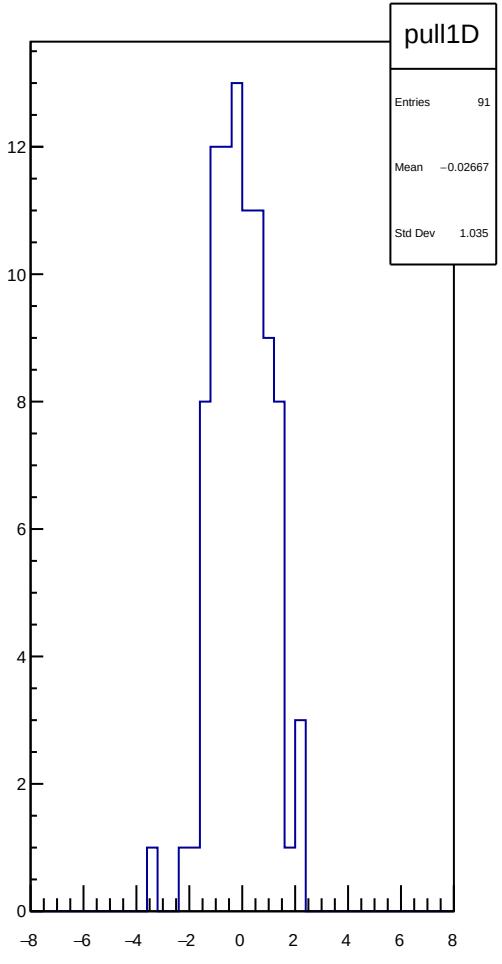

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 7890 / 90
p0 695.7 ± 0.519
850
800
750
700
650
600

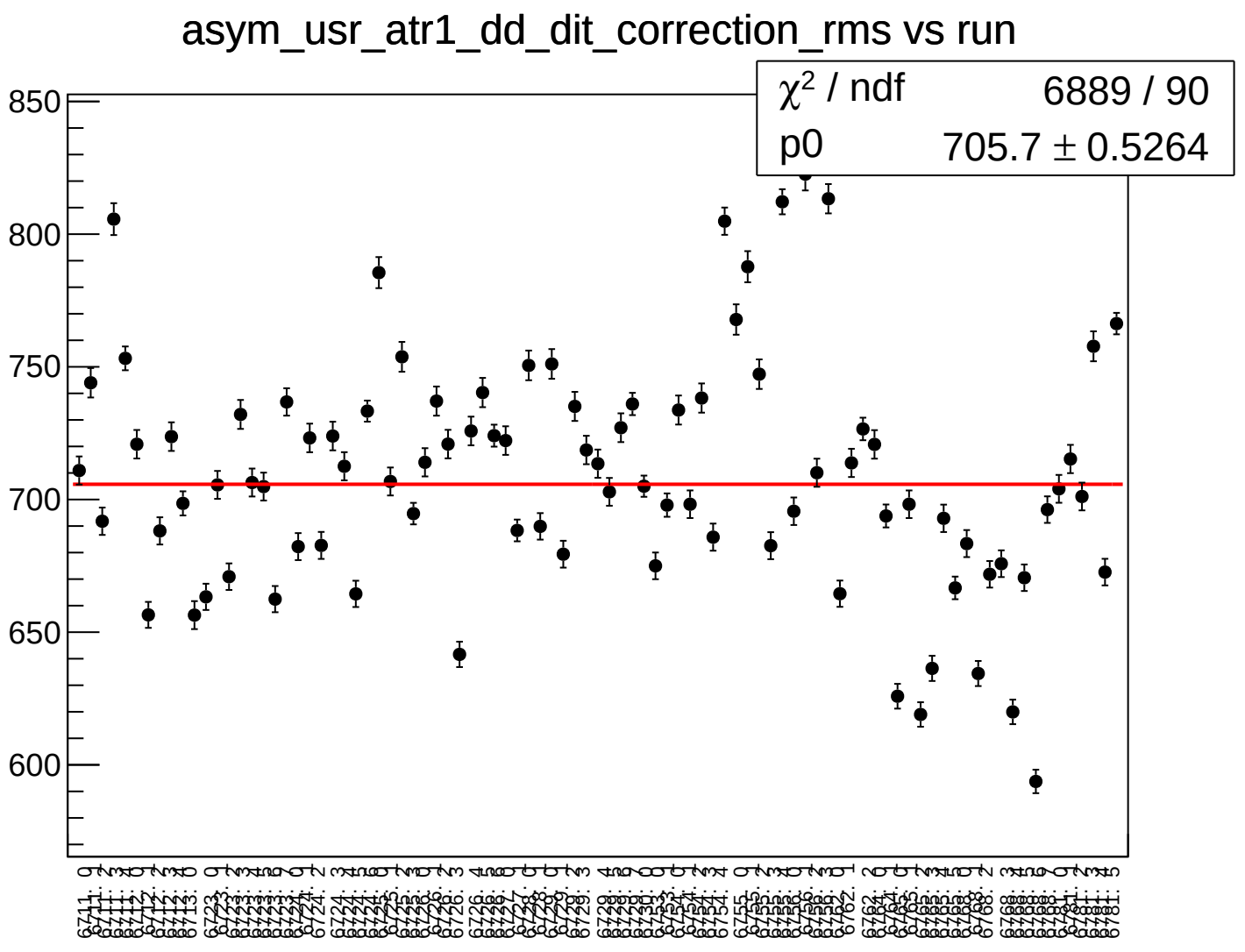

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 83.14 / 90
p0 2488 ± 1392
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 185.7
Std Dev 0
2
1
0
−1
−2
−3

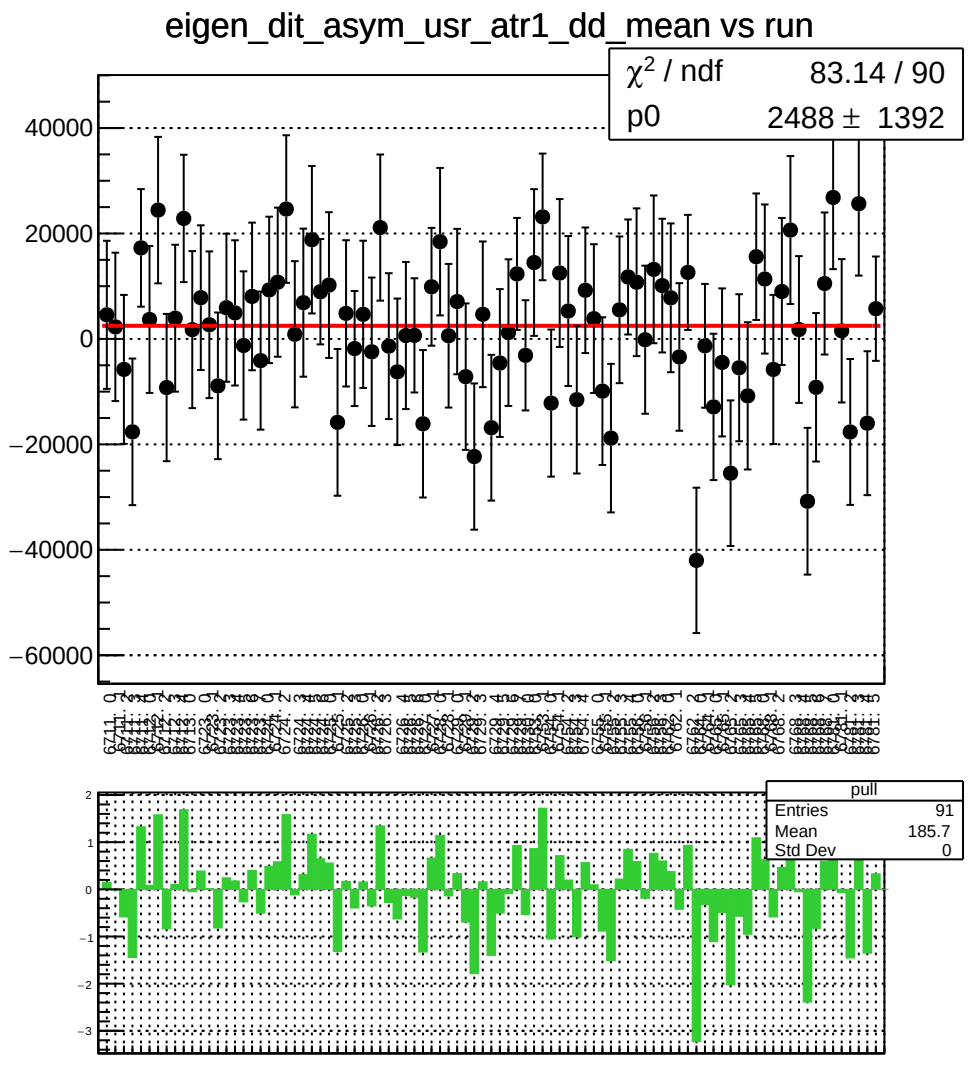

pull1D
Entries 91
Mean −0.02319
Std Dev 0.9556
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

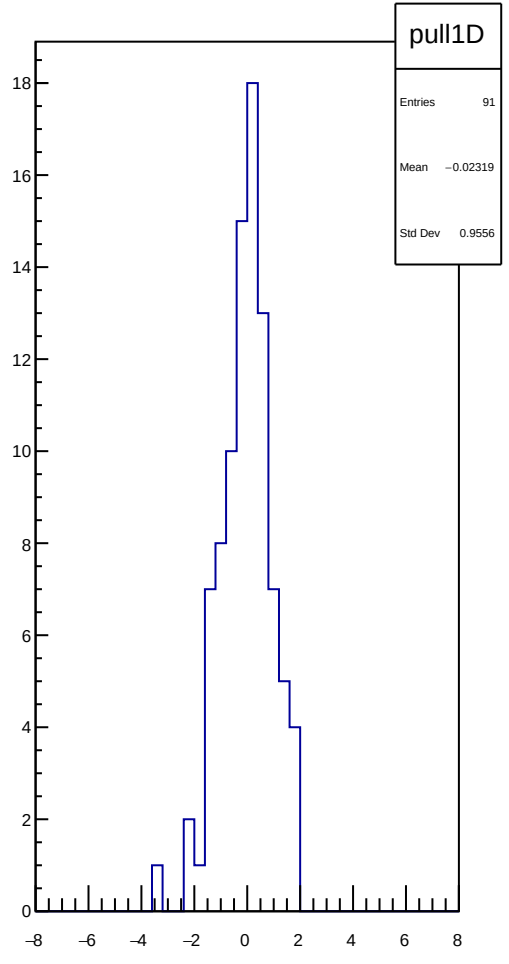

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 140.2 / 90
p0 1322 ± 0.9845
1360
1350
1340
1330
1320
1310
1300
1290
1280

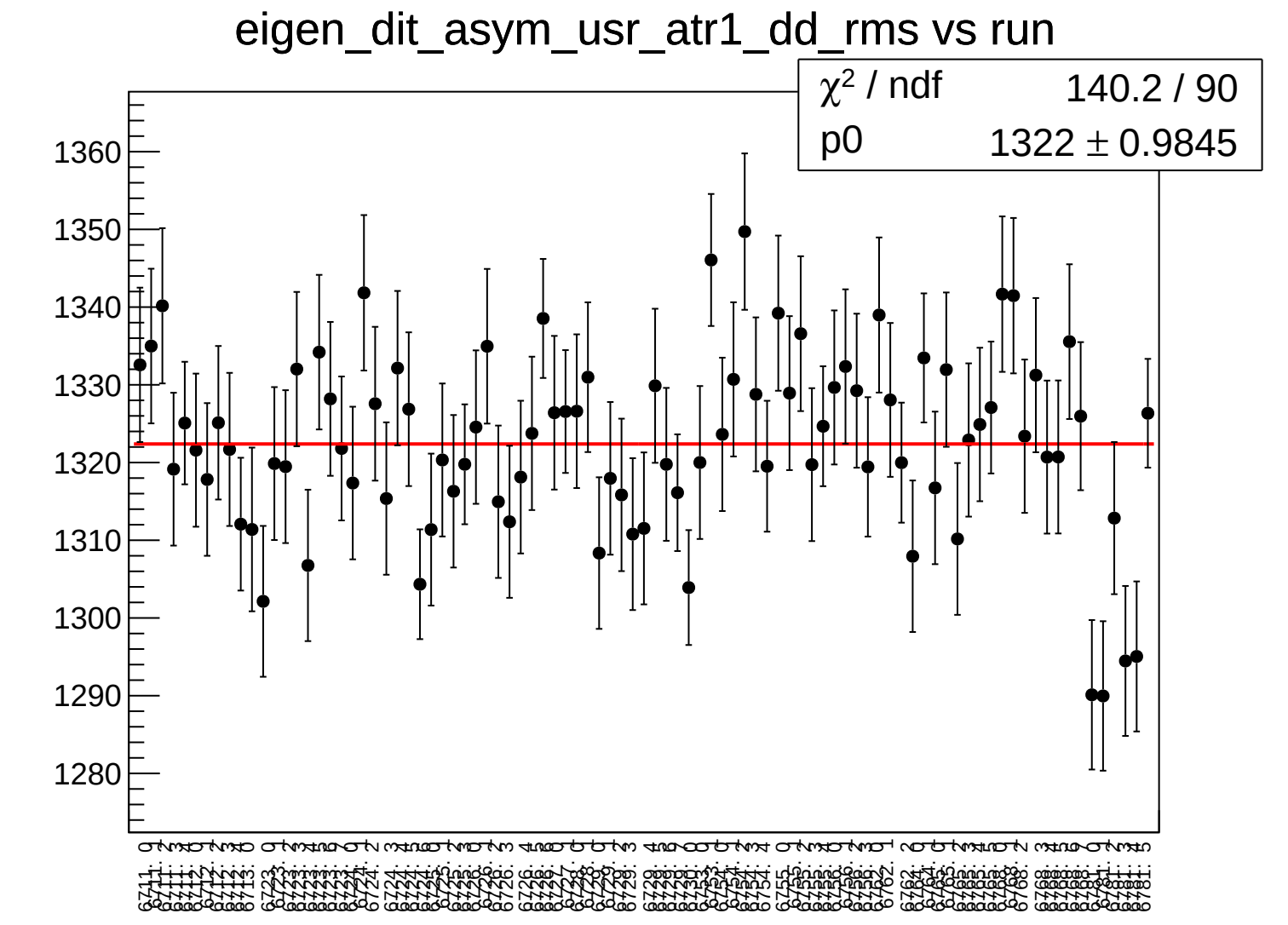

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 97.52 / 90
p0 −487 ± 744.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −1.965
Std Dev 52.77
2
1
0
−1
−2
−3

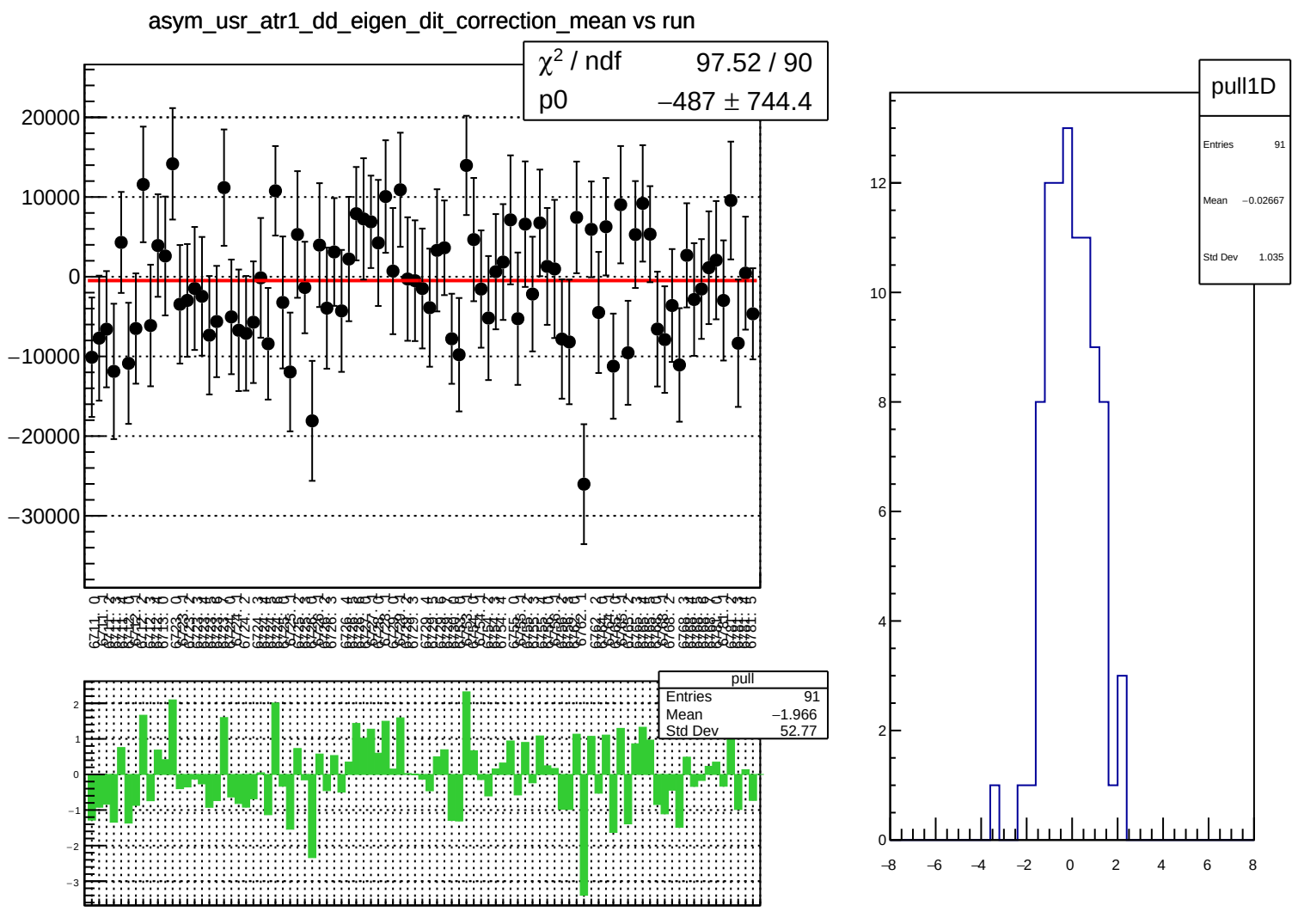

pull1D
Entries 91
Mean −0.02667
Std Dev 1.035
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

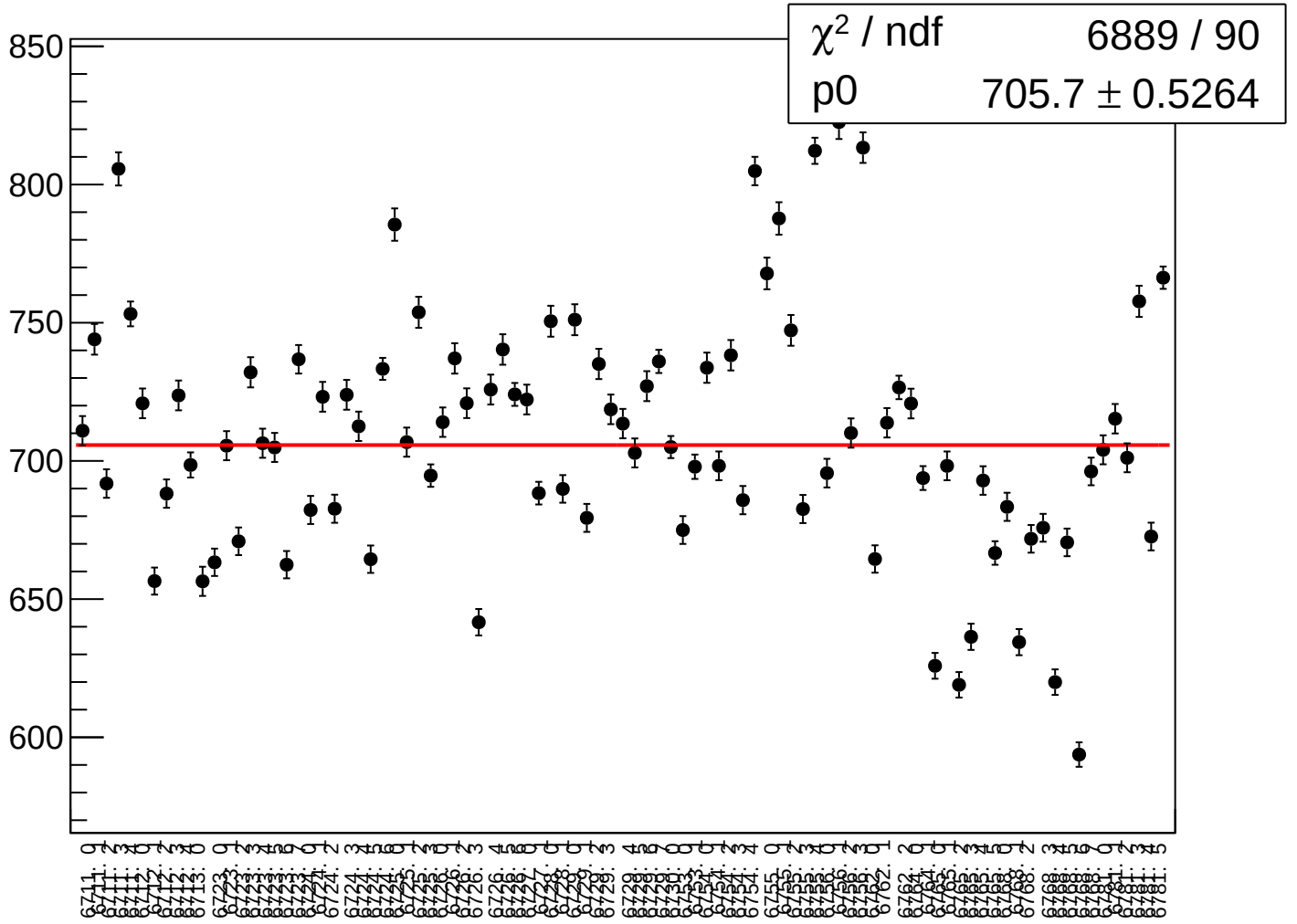

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 6889 / 90
p0 705.7 ± 0.5264
850
800
750
700
650
600

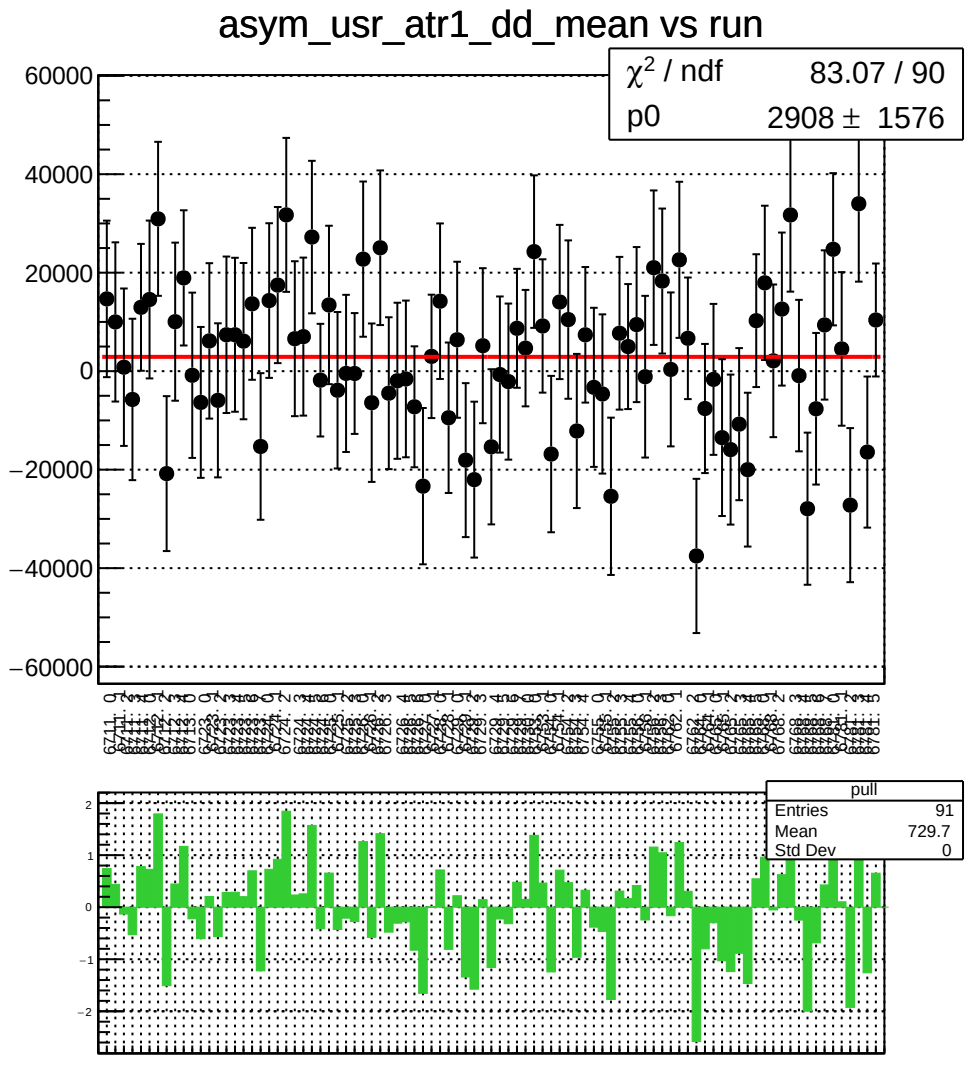

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 83.14 / 90
p0 2488 ± 1392
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 185.7
Std Dev 0
2
1
0
−1
−2
−3

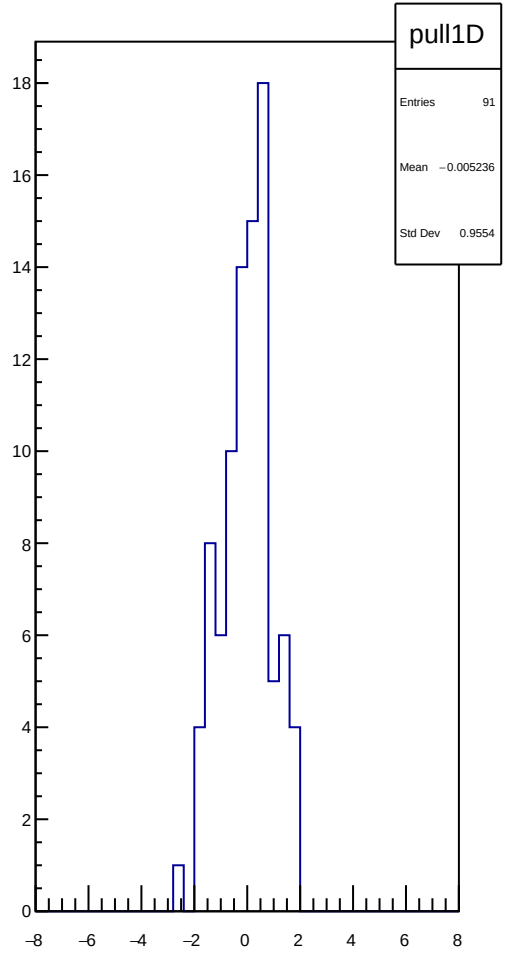

pull1D
Entries 91
Mean −0.02319
Std Dev 0.9556
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

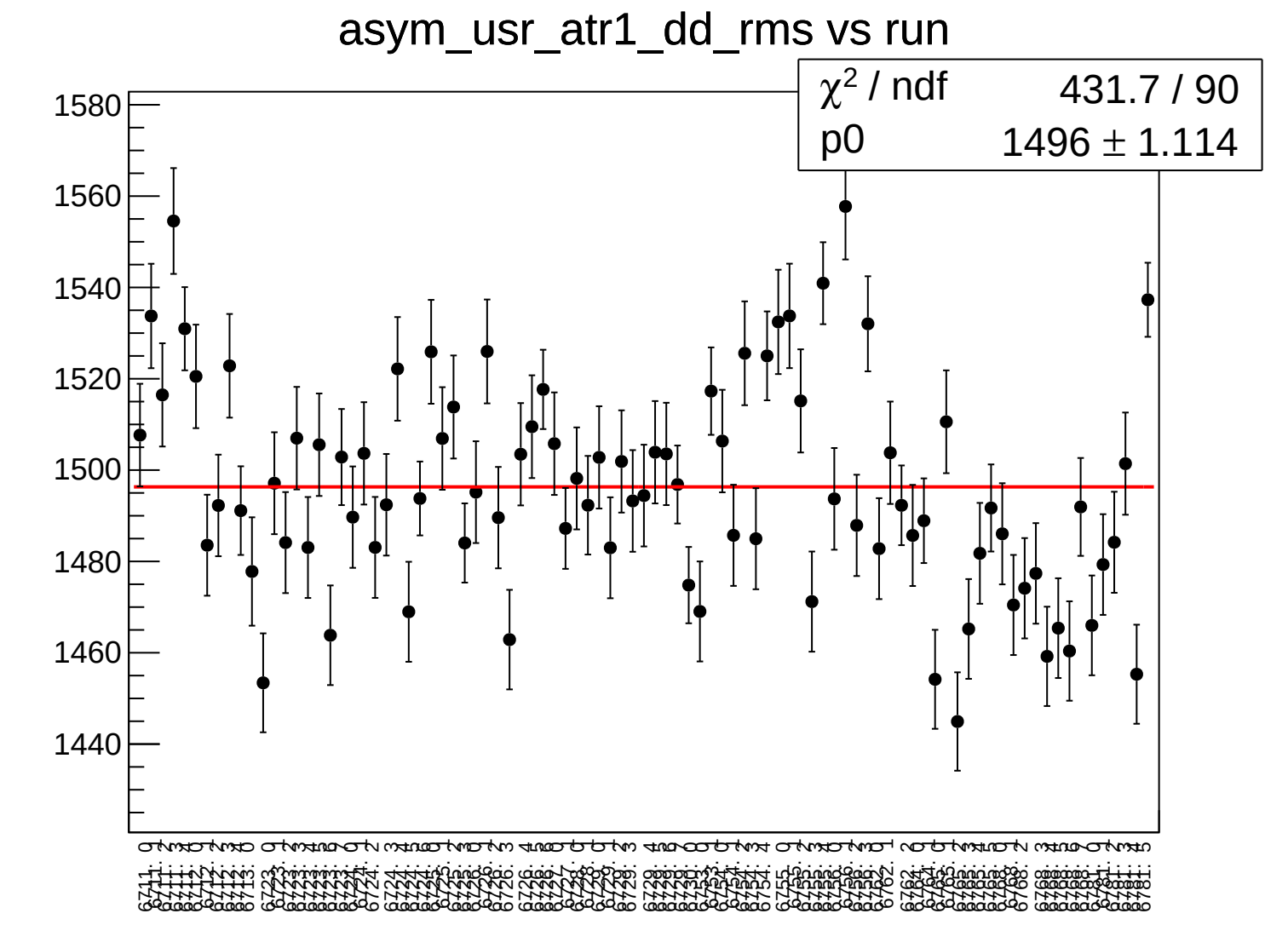

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 140.2 / 90
p0 1322 ± 0.9845
1360
1350
1340
1330
1320
1310
1300
1290
1280

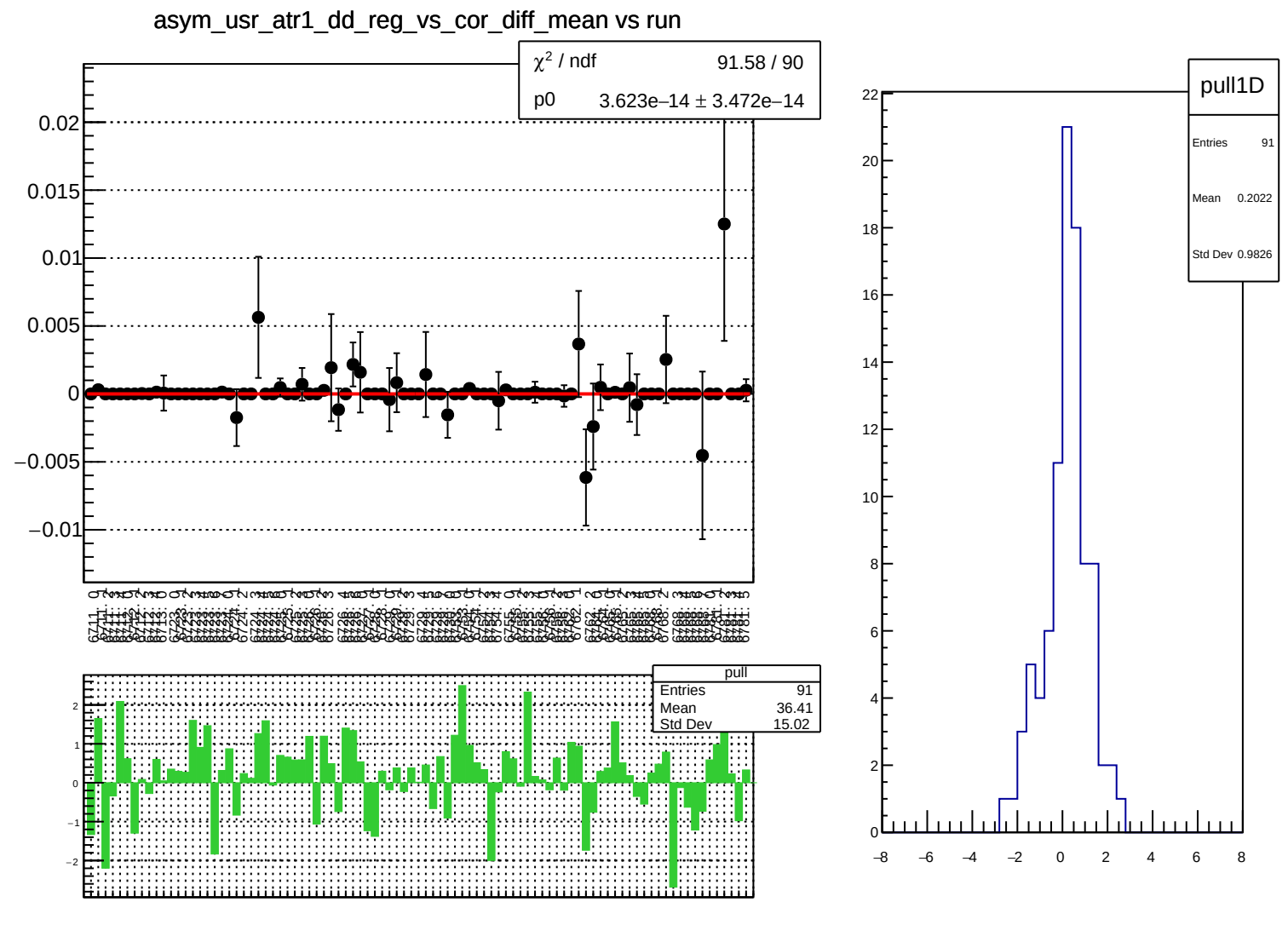

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 97.52 / 90
p0 −487 ± 744.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −1.966
Std Dev 52.77
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.02667
Std Dev 1.035
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

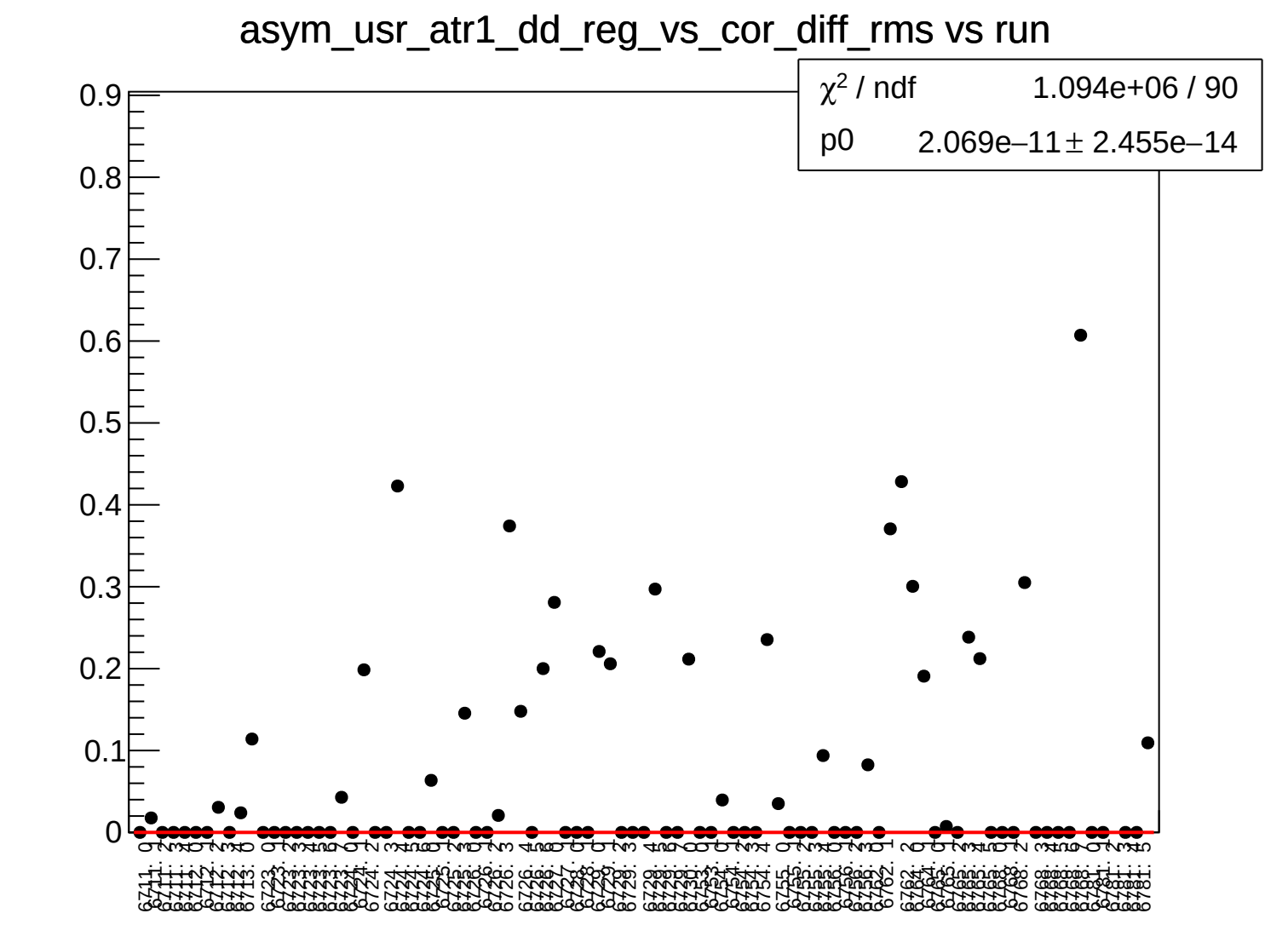

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 6889 / 90
p0 705.7 ± 0.5264
850
800
750
700
650
600

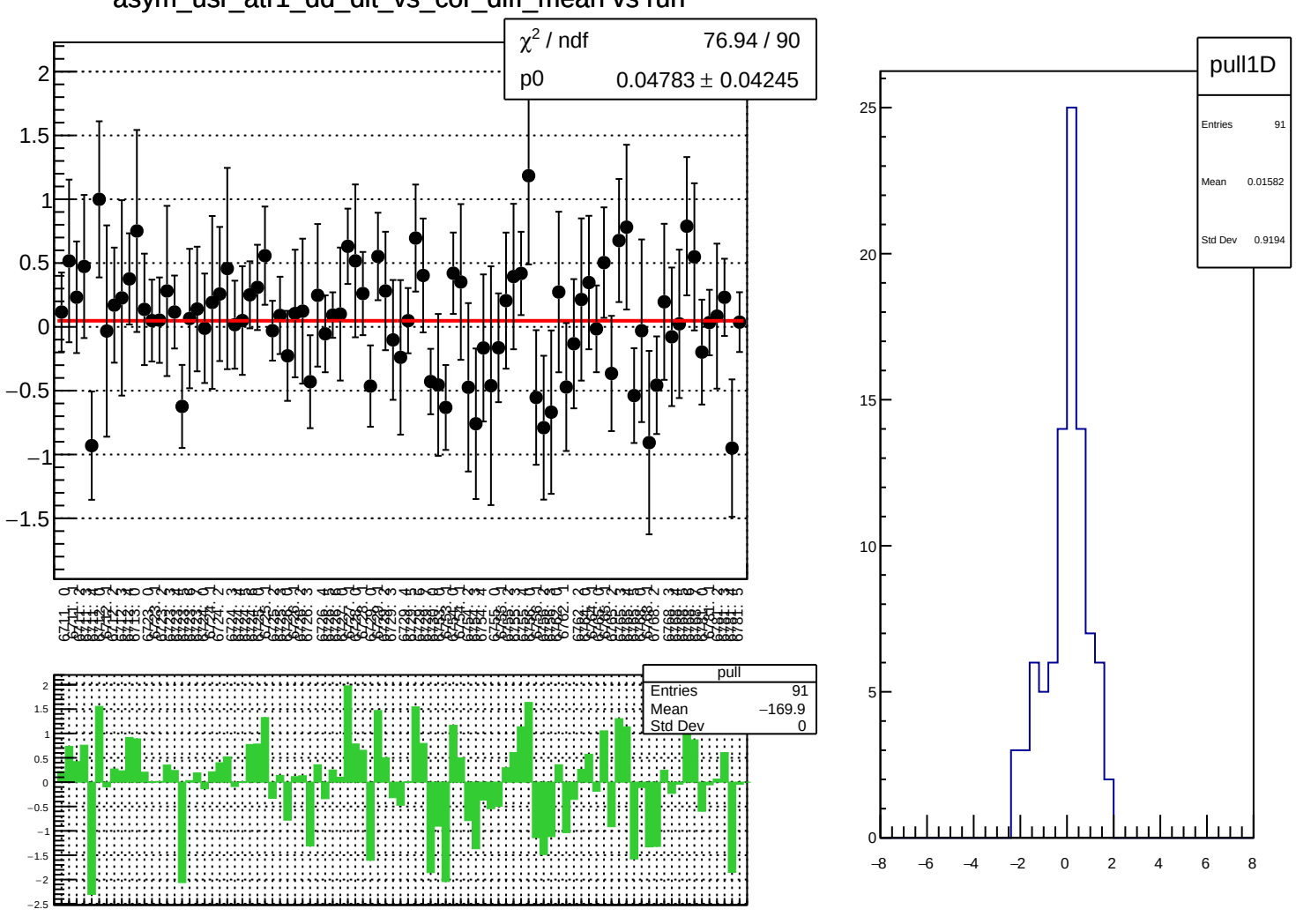

asym_usr_atr1_dd_mean vs run
χ² / ndf 83.07 / 90
p0 2908 ± 1576
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 729.7
Std Dev 0
2
1
0
−1
−2

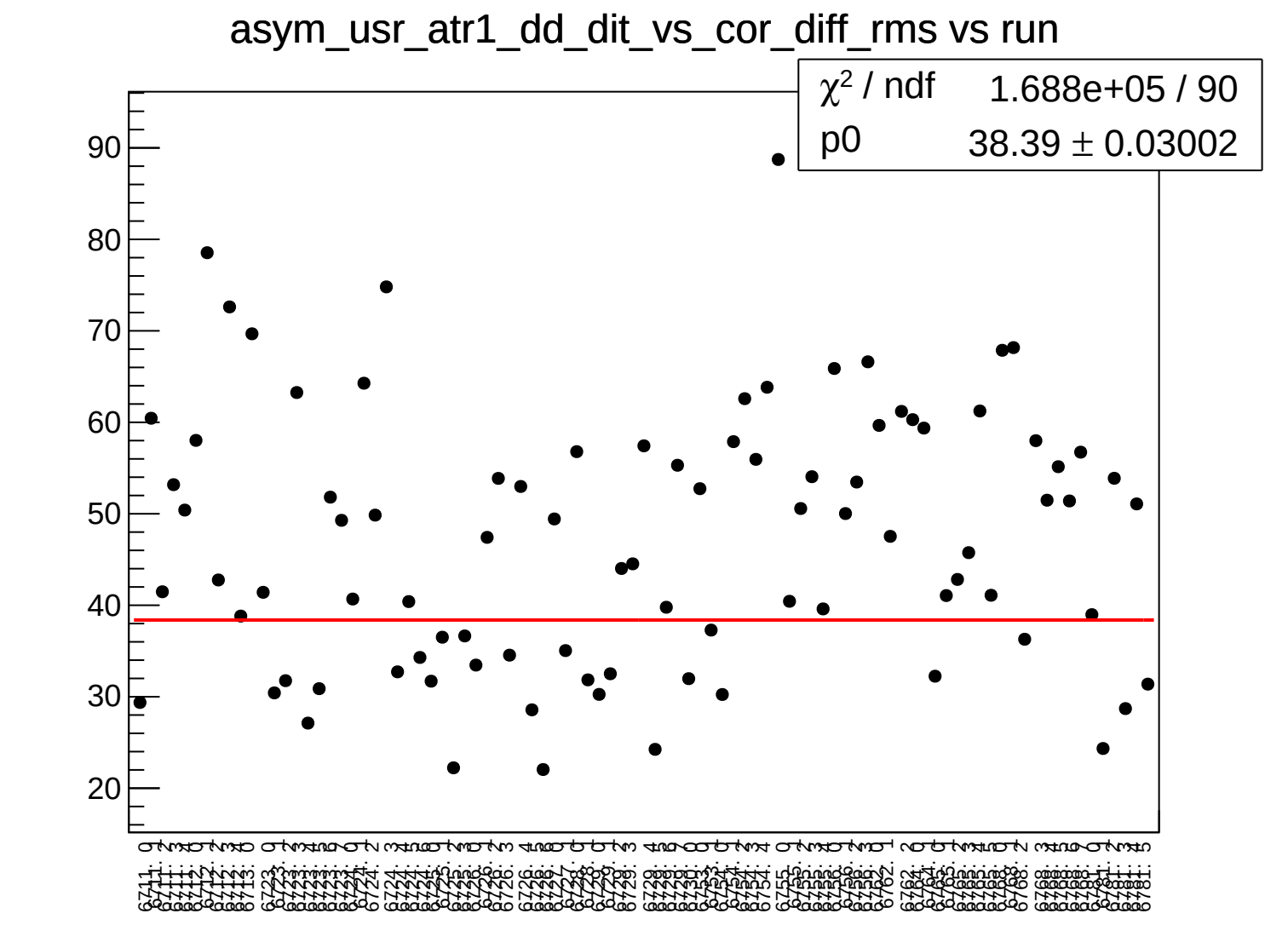

pull1D
Entries 91
Mean −0.005236
Std Dev 0.9554
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

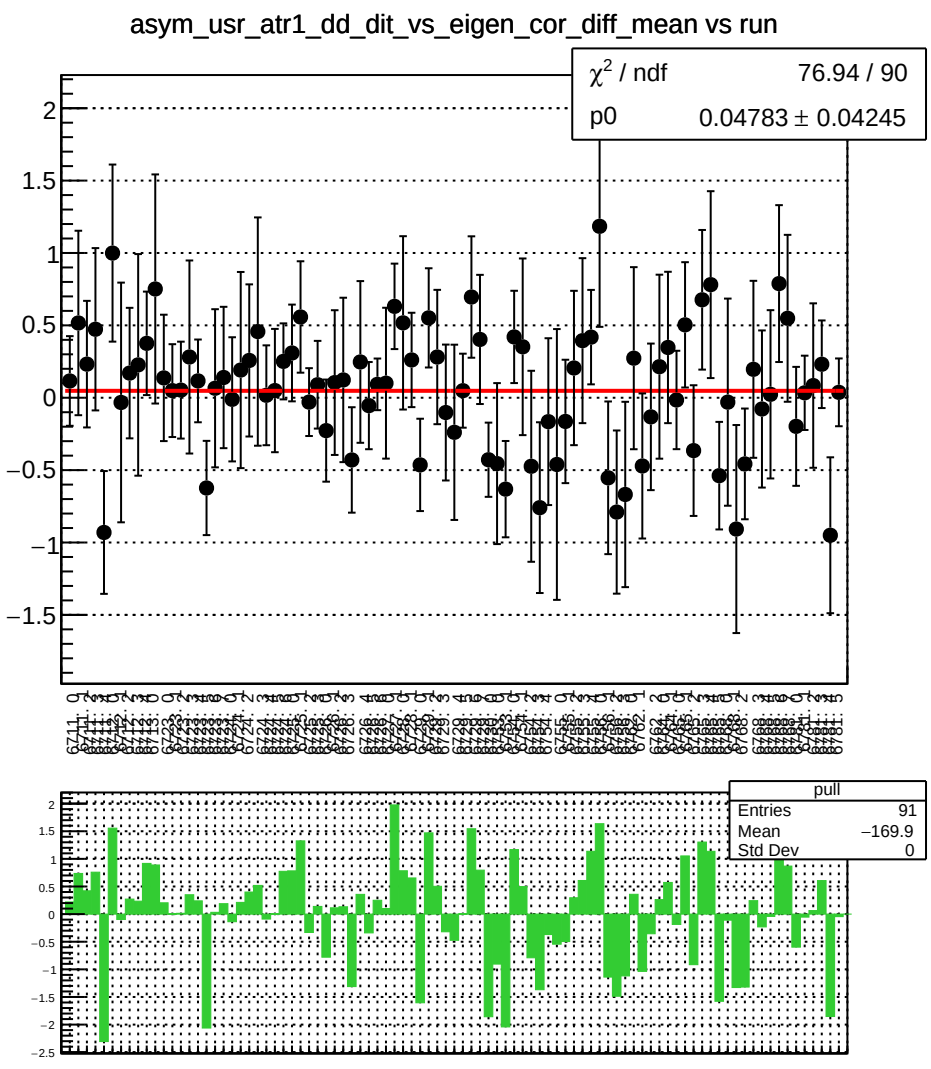

asym_usr_atr1_dd_rms vs run
χ² / ndf 431.7 / 90
p0 1496 ± 1.114
1580
1560
1540
1520
1500
1480
1460
1440

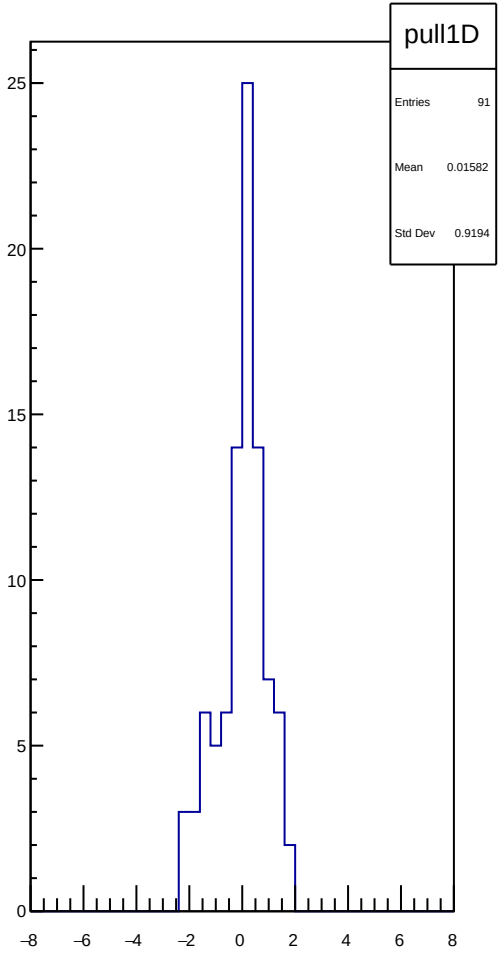

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.58 / 90
p0 3.623e−14 ± 3.472e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean 36.41
Std Dev 15.02
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.2022
Std Dev 0.9826
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

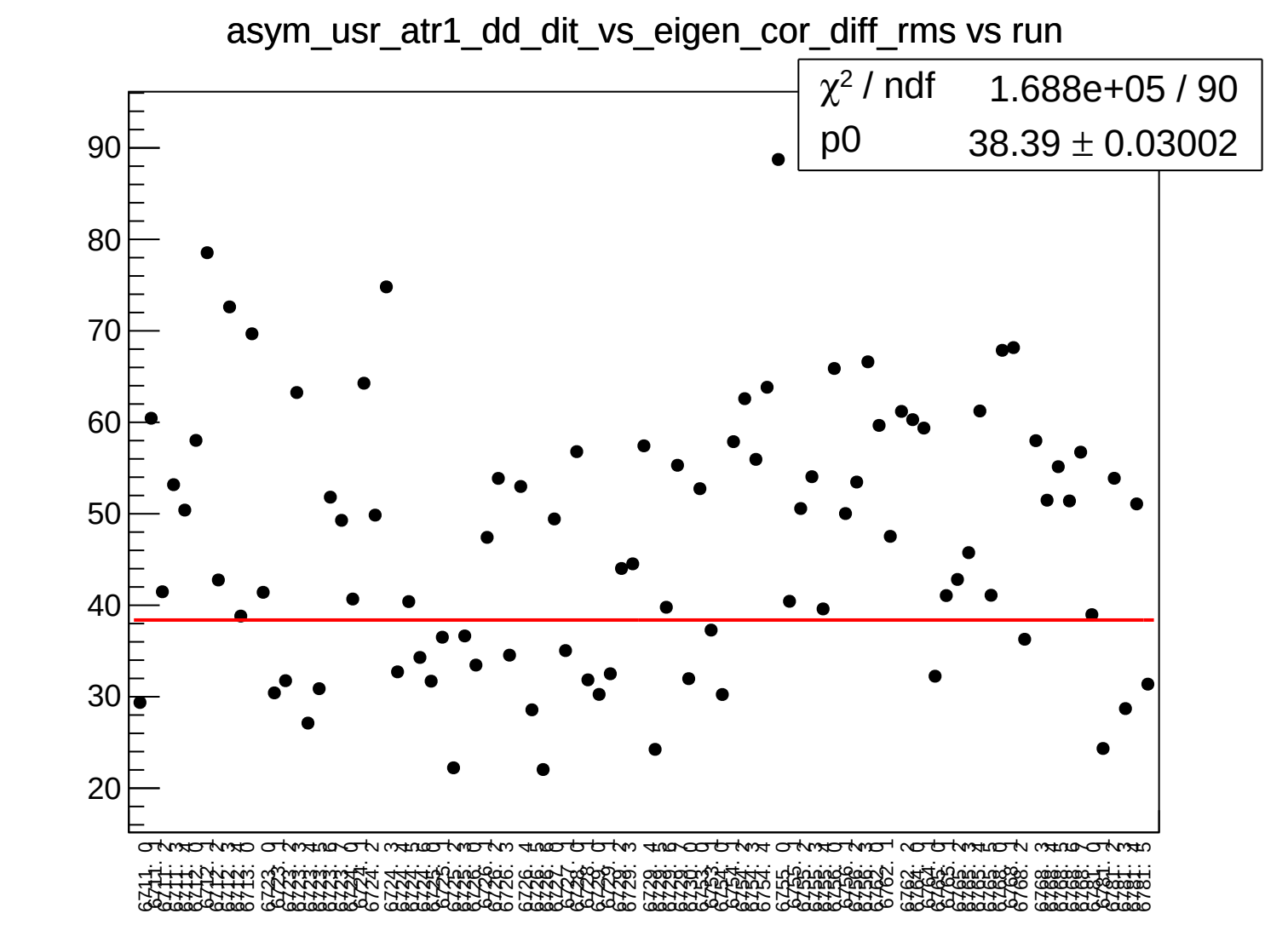

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.094e+06 / 90
p0 2.069e−11 ± 2.455e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

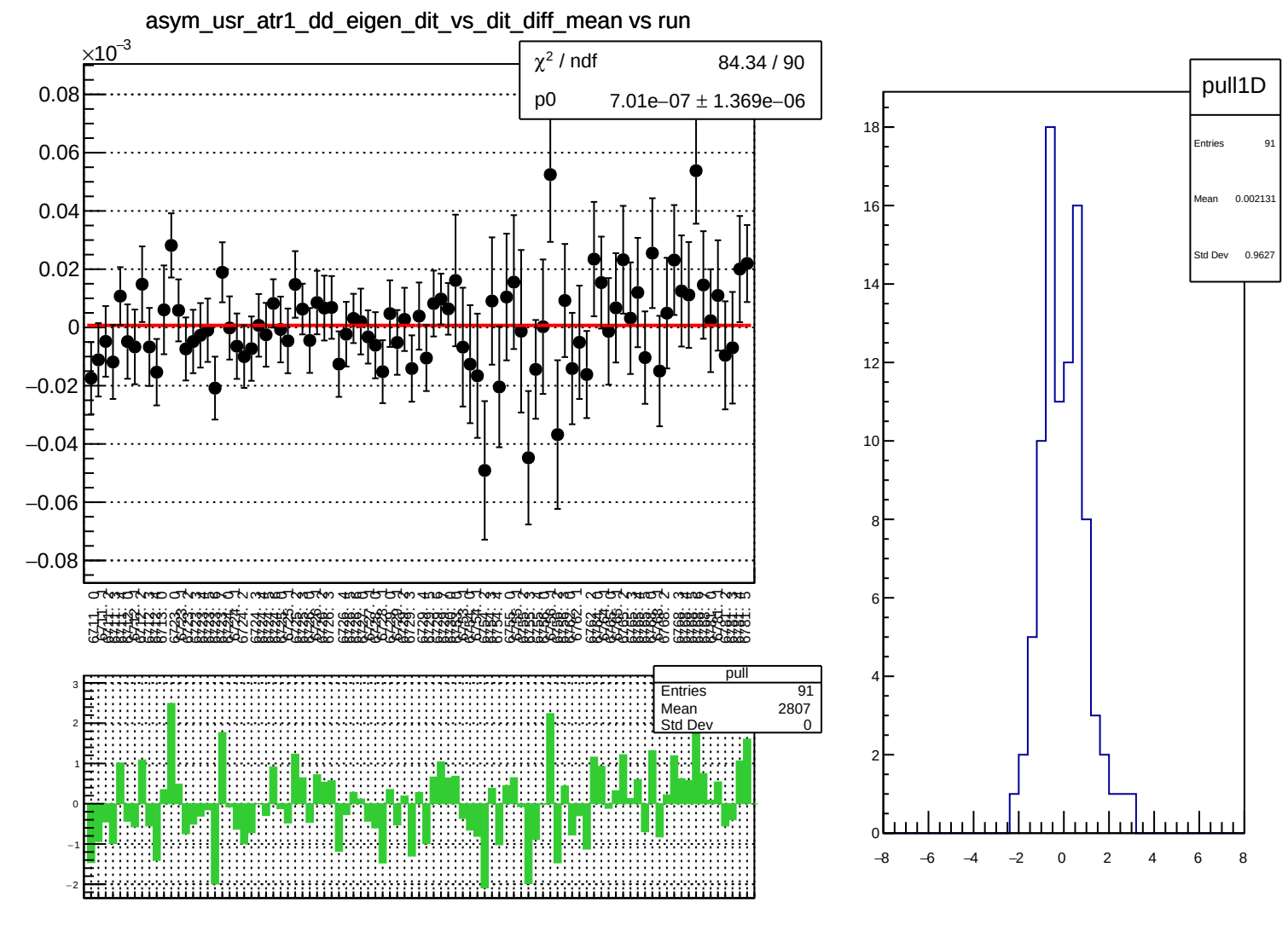

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.94 / 90
p0 0.04783 ± 0.04245
pull
Entries 91
Mean −169.9
Std Dev 0
pull1D
Entries 91
Mean 0.01582
Std Dev 0.9194

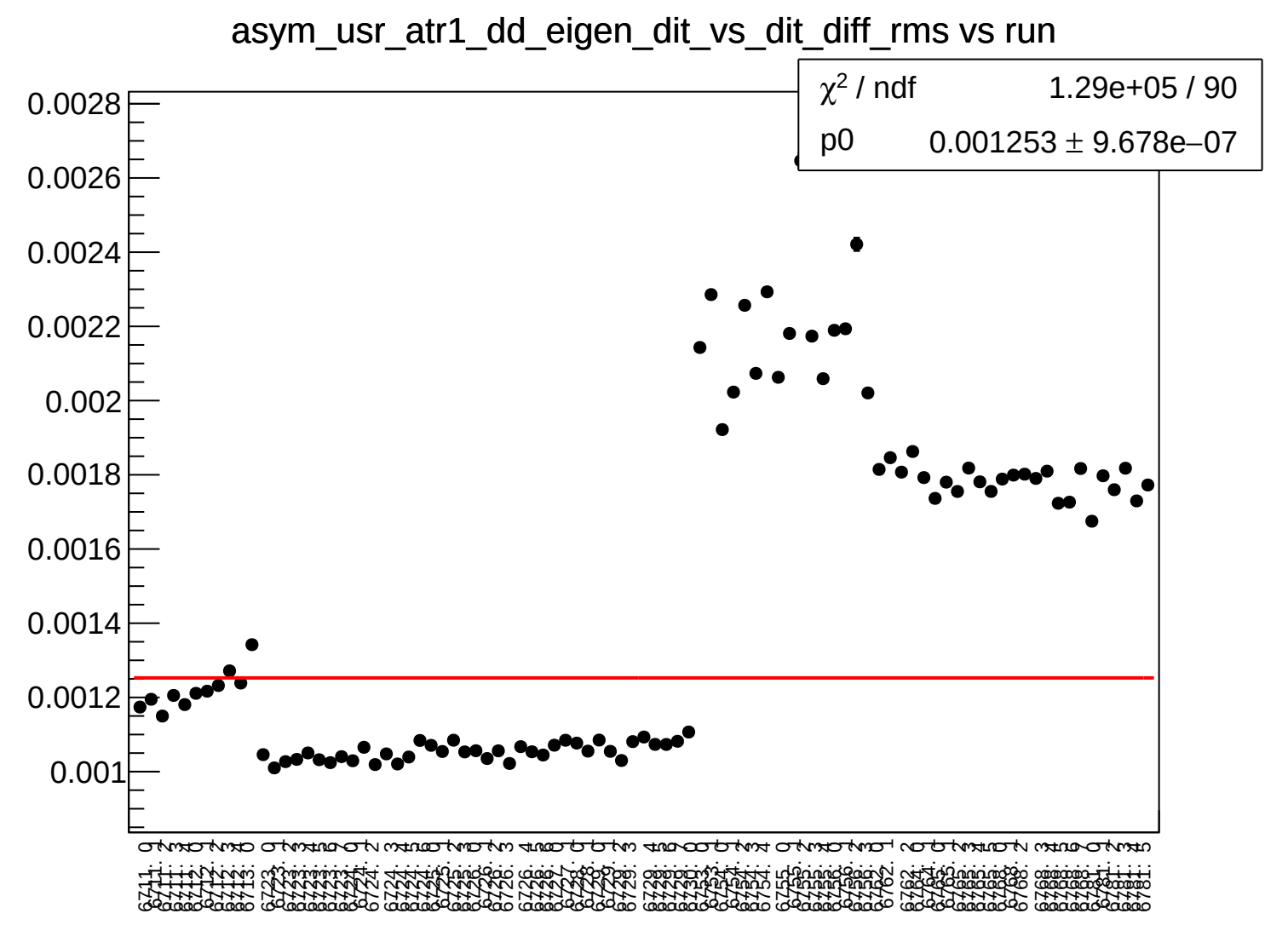

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.688e+05 / 90
p0 38.39 ± 0.03002
90
80
70
60
50
40
30
20

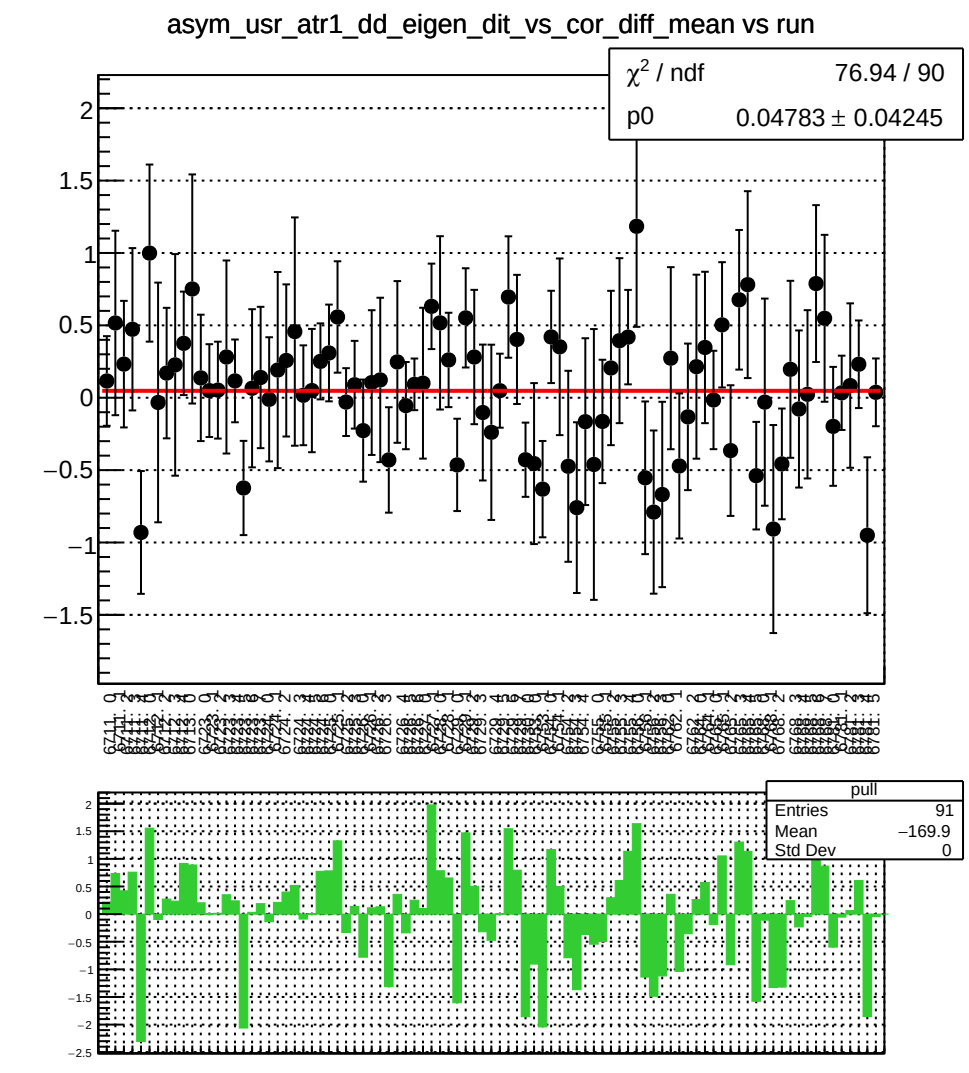

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.94 / 90
p0 0.04783 ± 0.04245
pull
Entries 91
Mean −169.9
Std Dev 0

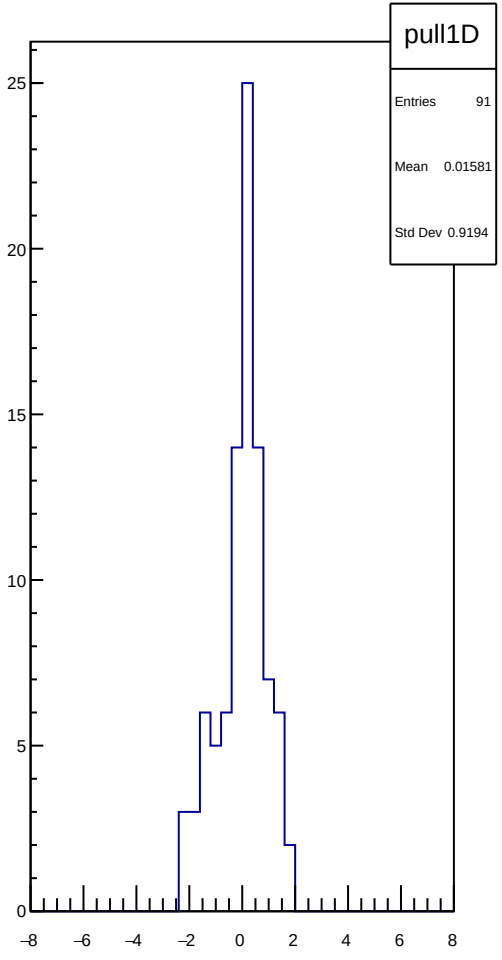

pull1D
Entries 91
Mean 0.01582
Std Dev 0.9194

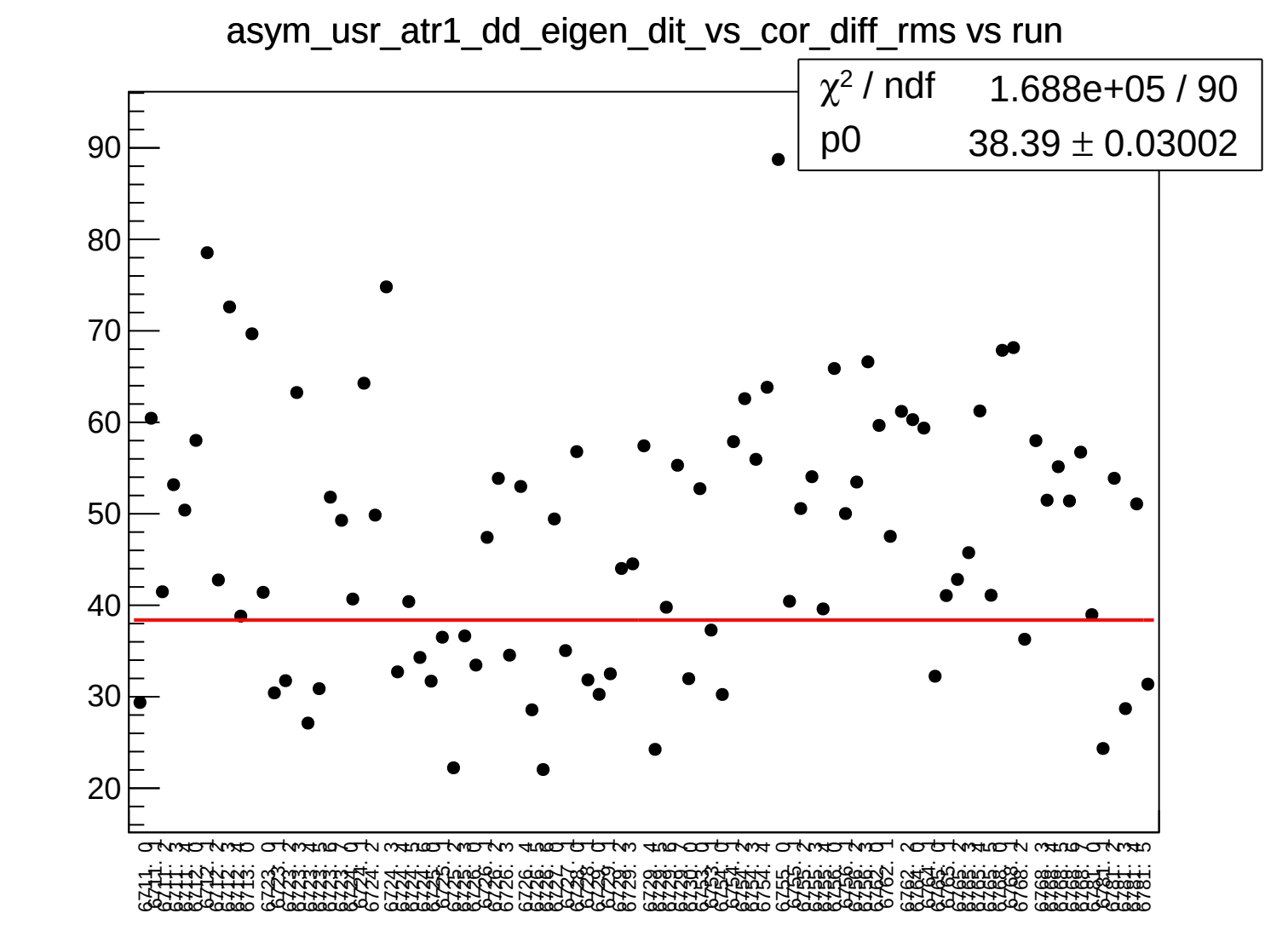

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.688e+05 / 90
p0 38.39 ± 0.03002
90
80
70
60
50
40
30
20

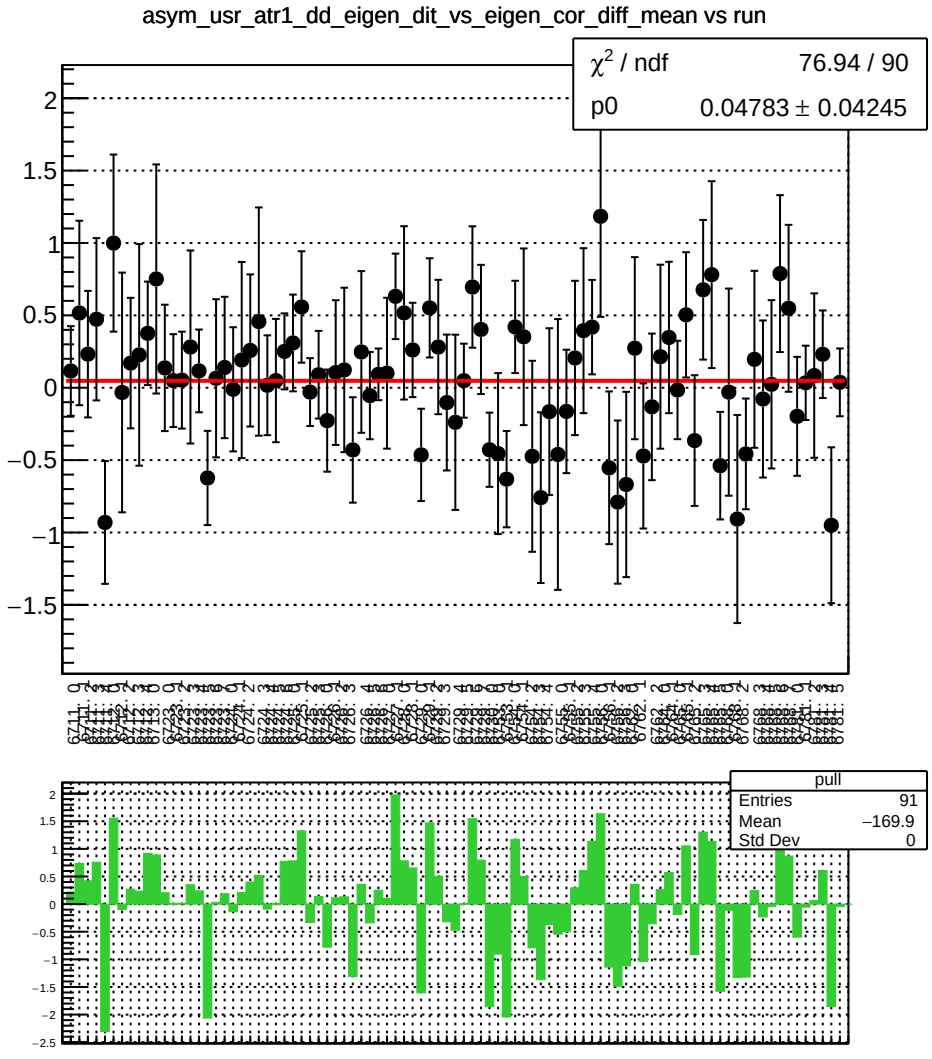

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 84.34 / 90
p0 7.01e−07 ± 1.369e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 91
Mean 2807
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.002131
Std Dev 0.9627
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

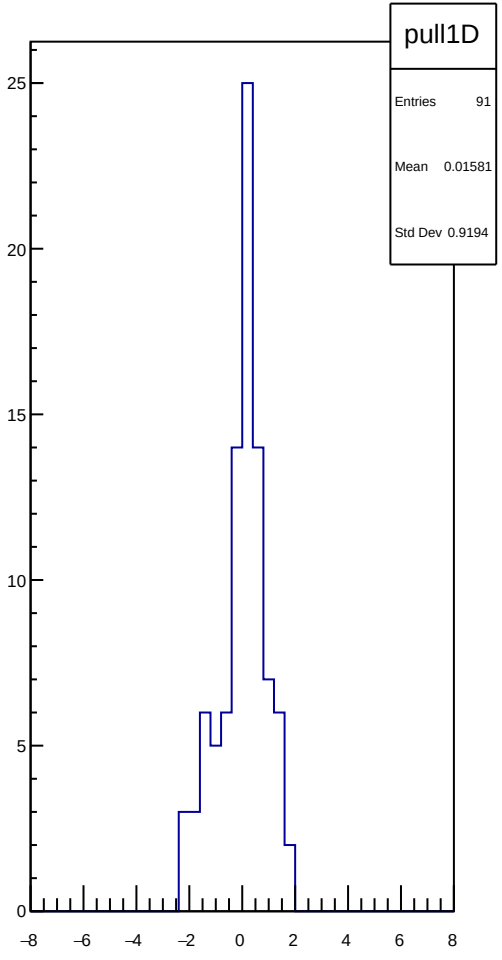

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.29e+05 / 90
p0 0.001253 ± 9.678e−07
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

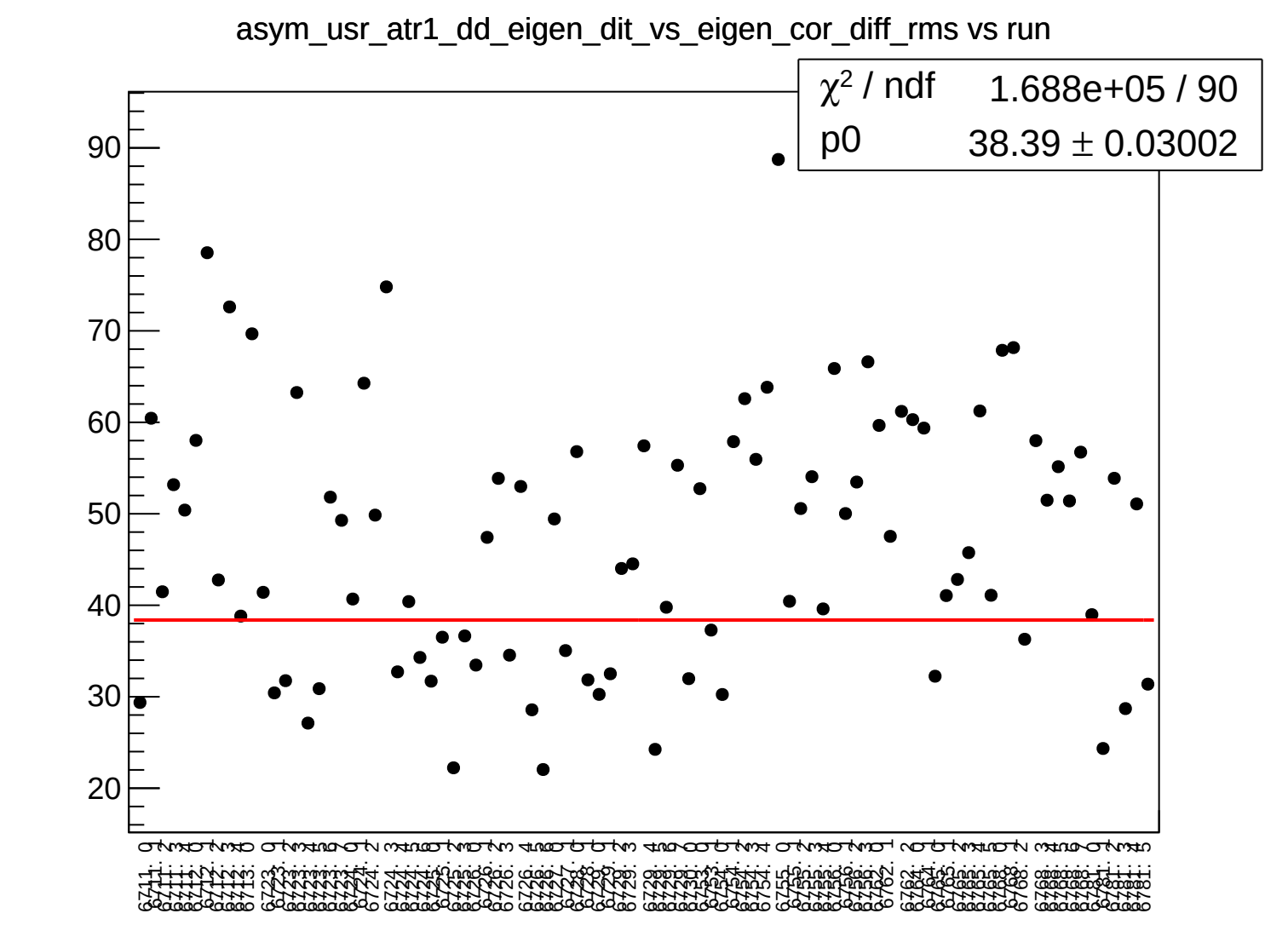

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.94 / 90
p0 0.04783 ± 0.04245
pull
Entries 91
Mean −169.9
Std Dev 0

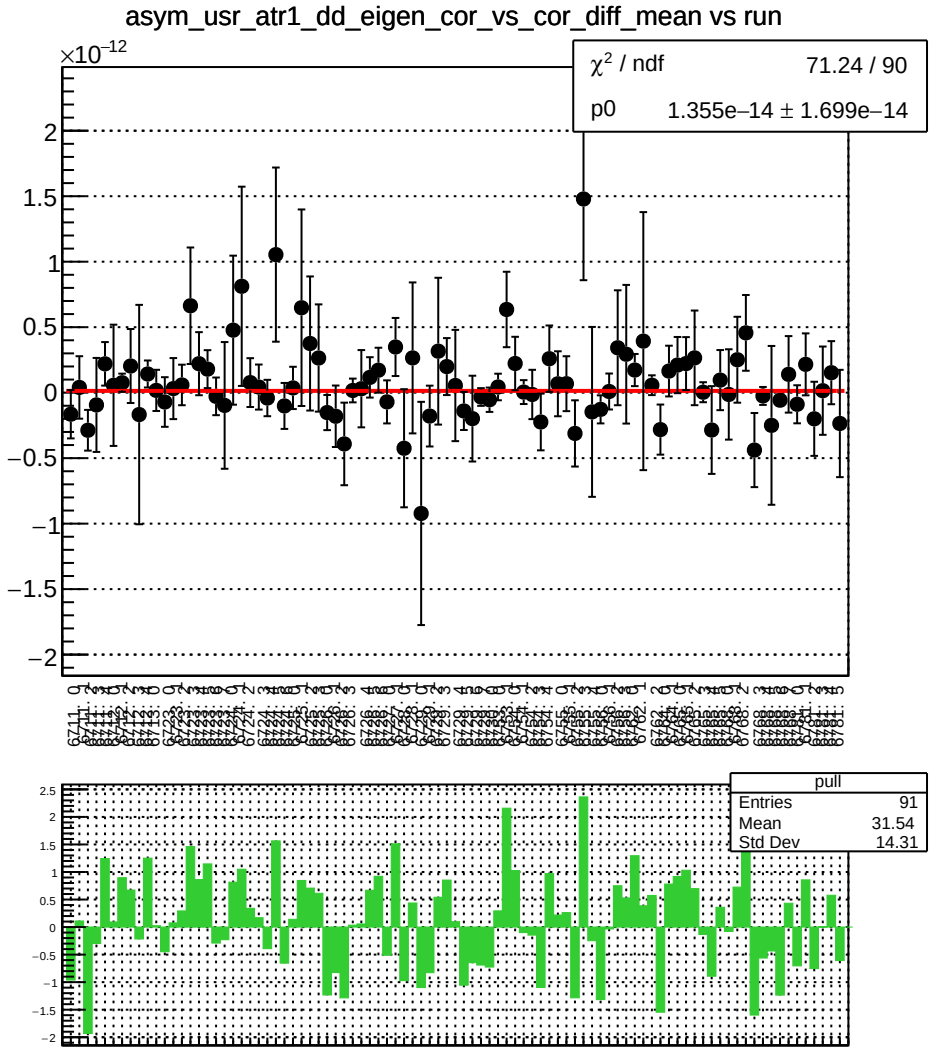

pull1D
Entries 91
Mean 0.01581
Std Dev 0.9194

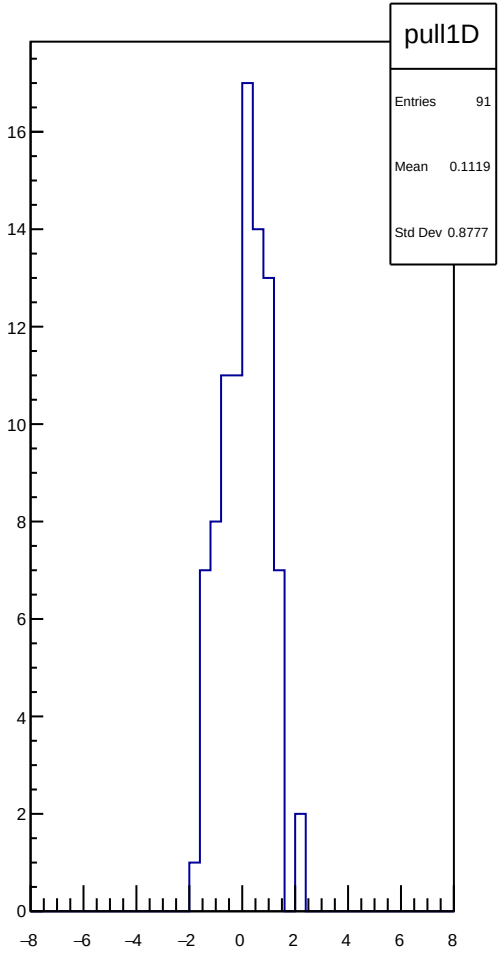

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.688e+05 / 90
p0 38.39 ± 0.03002
90
80
70
60
50
40
30
20

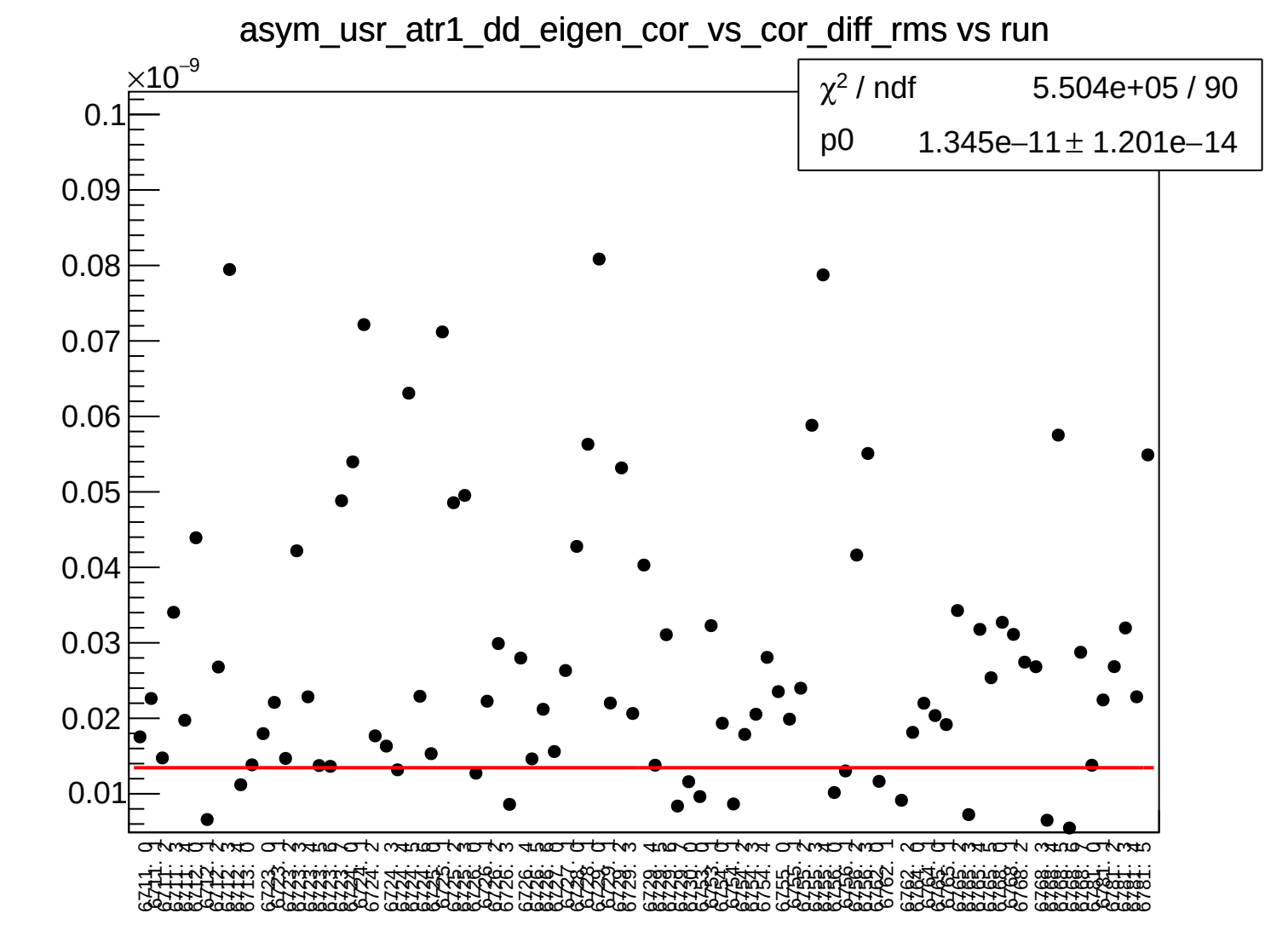

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.94 / 90
p0 0.04783 ± 0.04245
pull
Entries 91
Mean −169.9
Std Dev 0

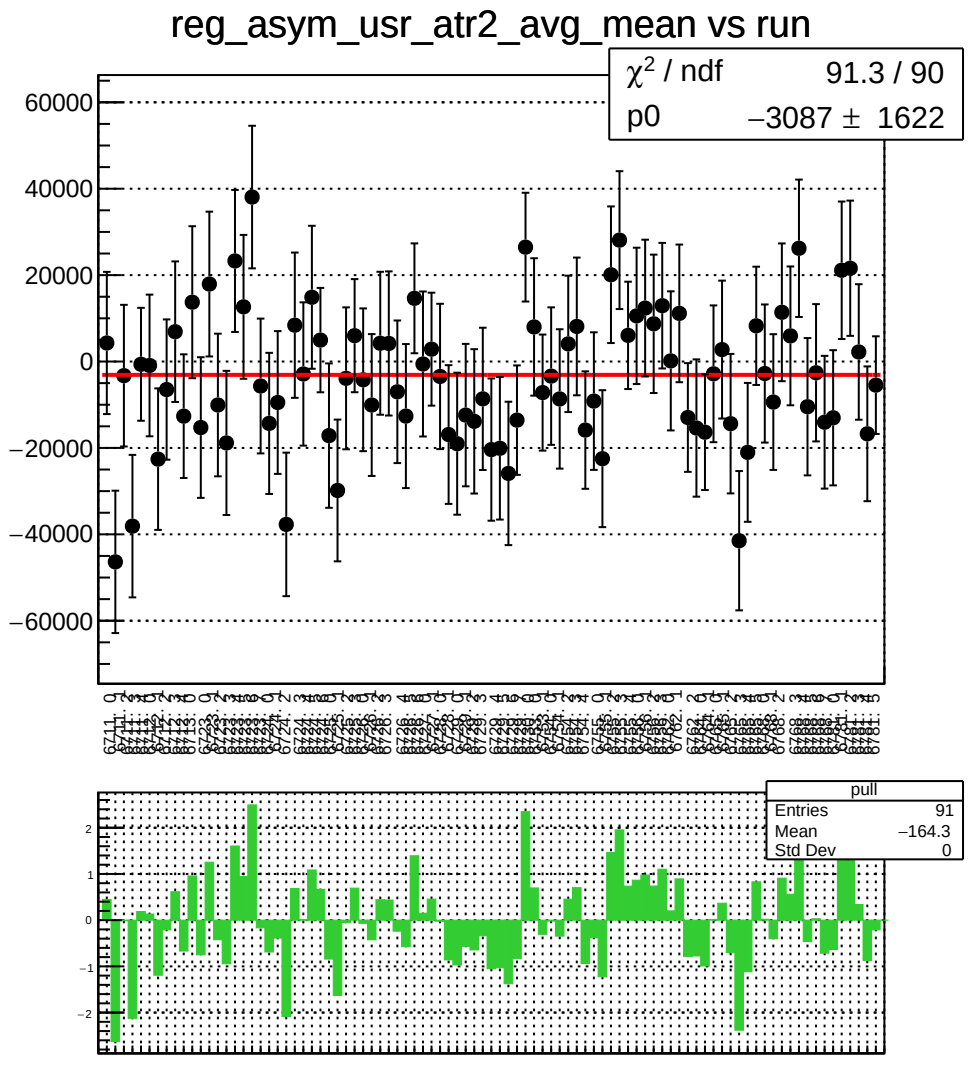

pull1D
Entries 91
Mean 0.01581
Std Dev 0.9194

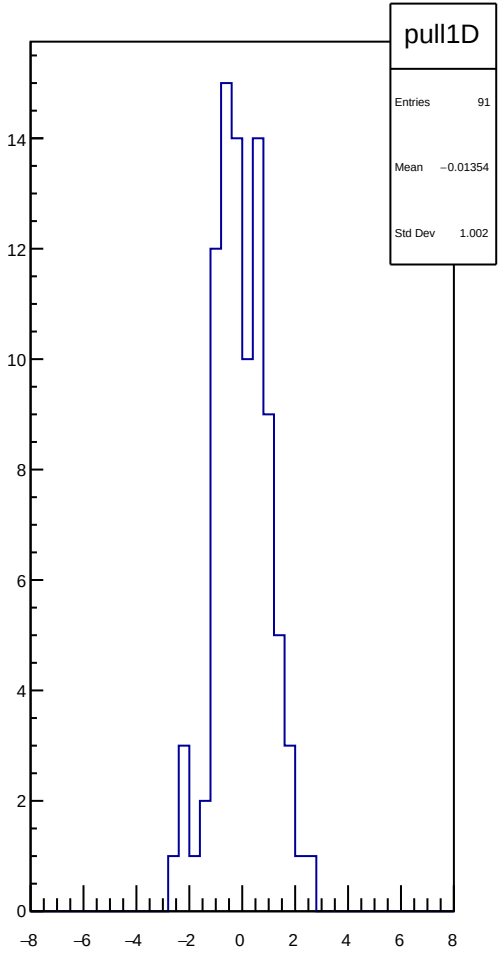

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.688e+05 / 90
p0 38.39 ± 0.03002
90
80
70
60
50
40
30
20

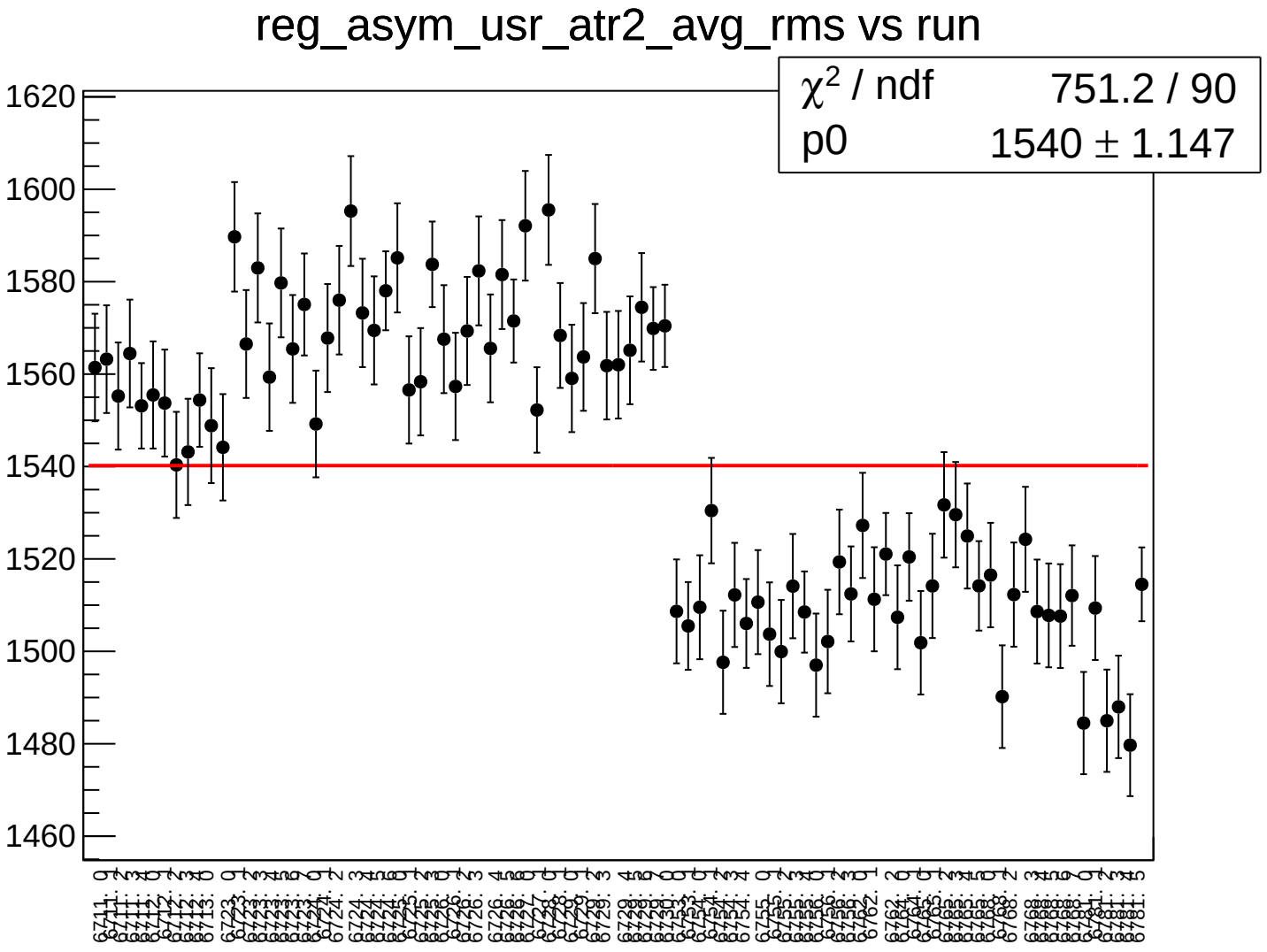

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.24 / 90
p0 1.355e−14 ± 1.699e−14
pull
Entries 91
Mean 31.54
Std Dev 14.31

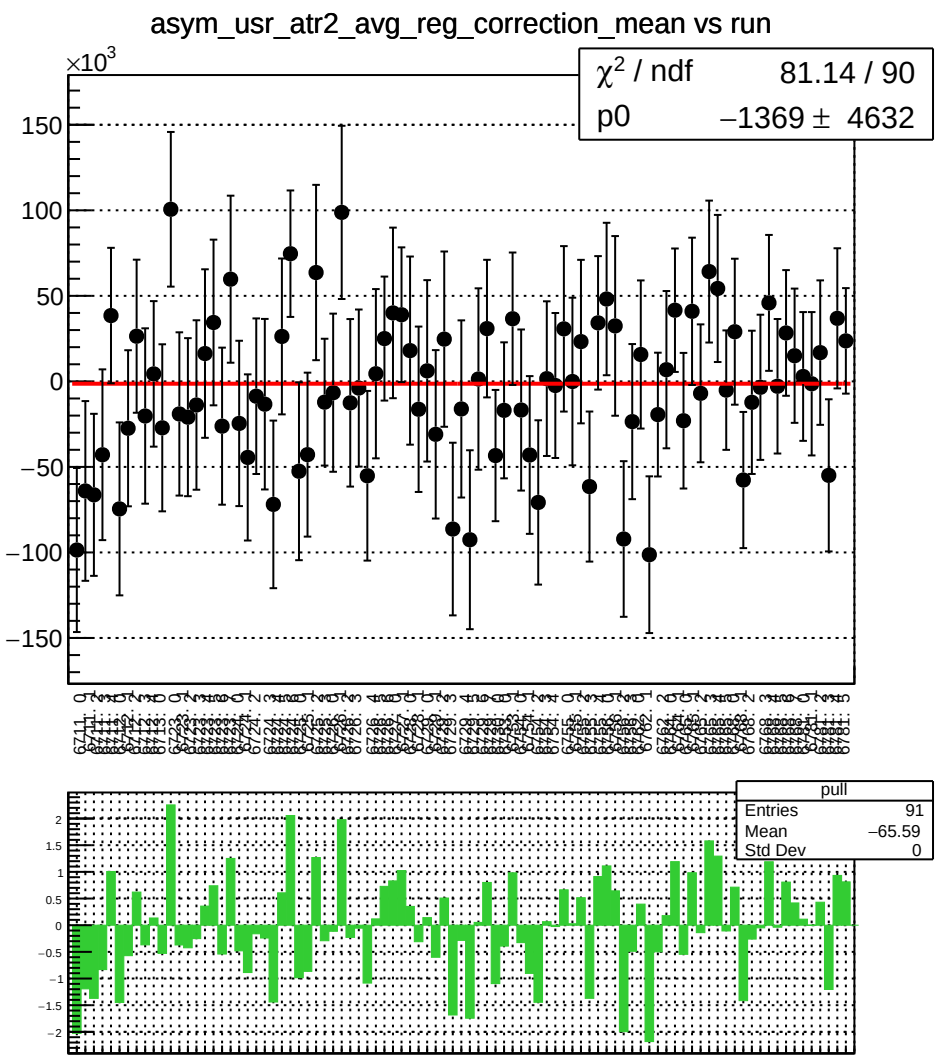

pull1D
Entries 91
Mean 0.1119
Std Dev 0.8777

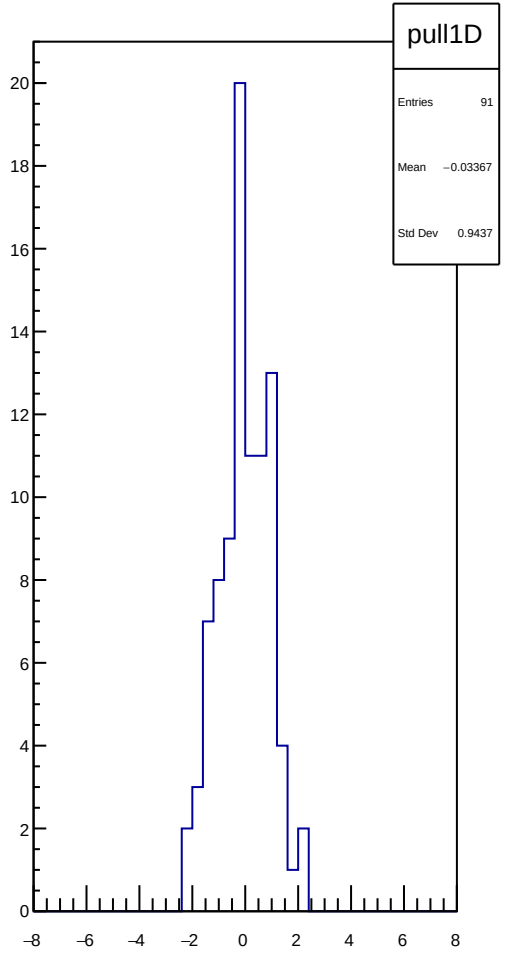

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.504e+05 / 90
p0 1.345e−11 ± 1.201e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

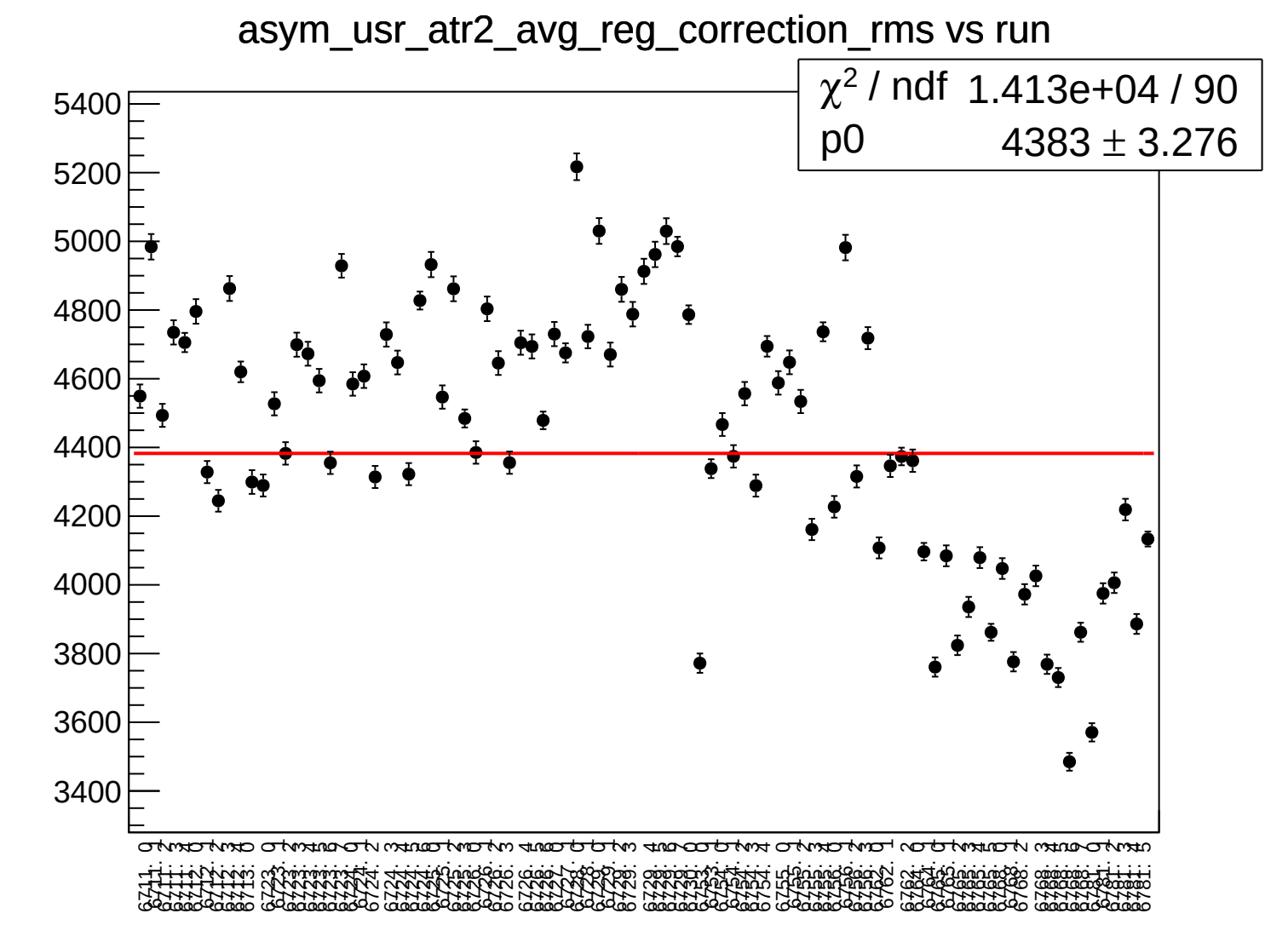

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 91.3 / 90
p0 −3087 ± 1622
pull
Entries 91
Mean −164.3
Std Dev 0

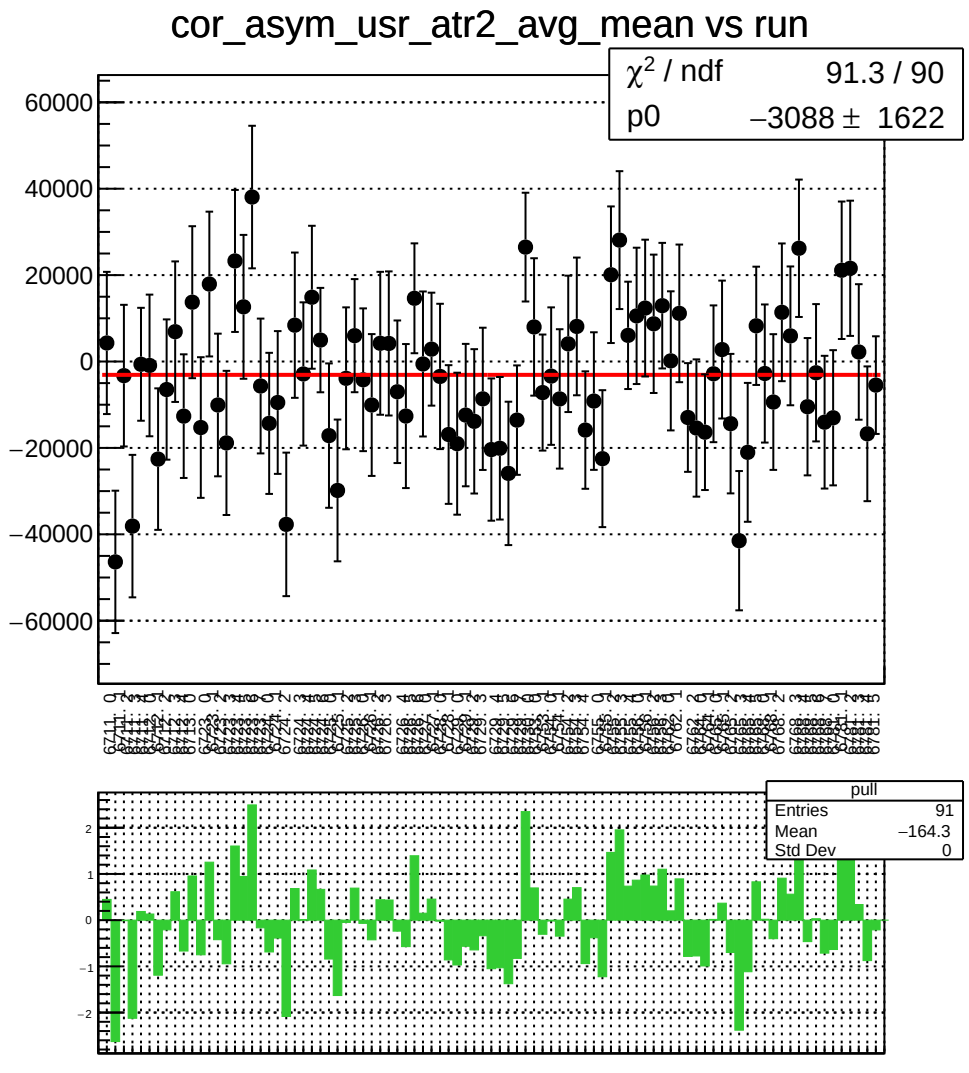

pull1D
Entries 91
Mean −0.01354
Std Dev 1.002

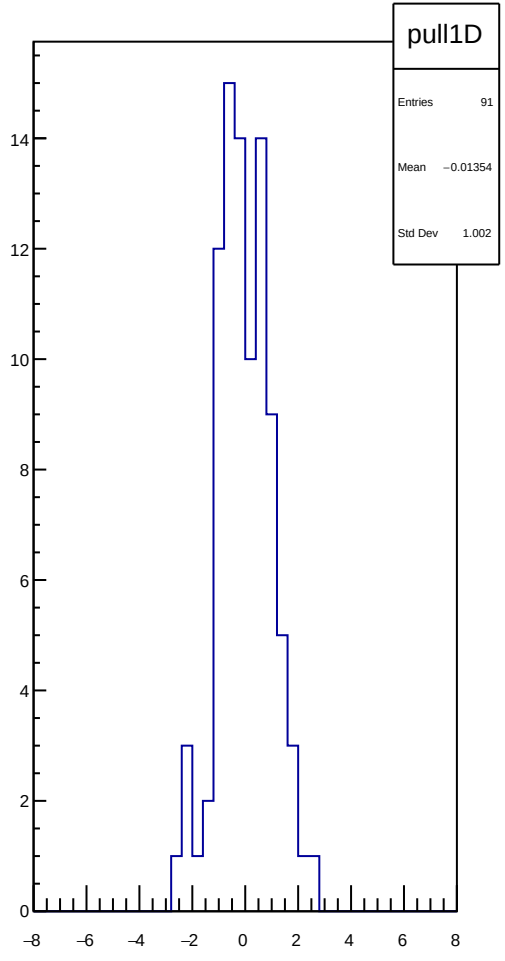

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 751.2 / 90
p0 1540 ± 1.147
1620
1600
1580
1560
1540
1520
1500
1480
1460

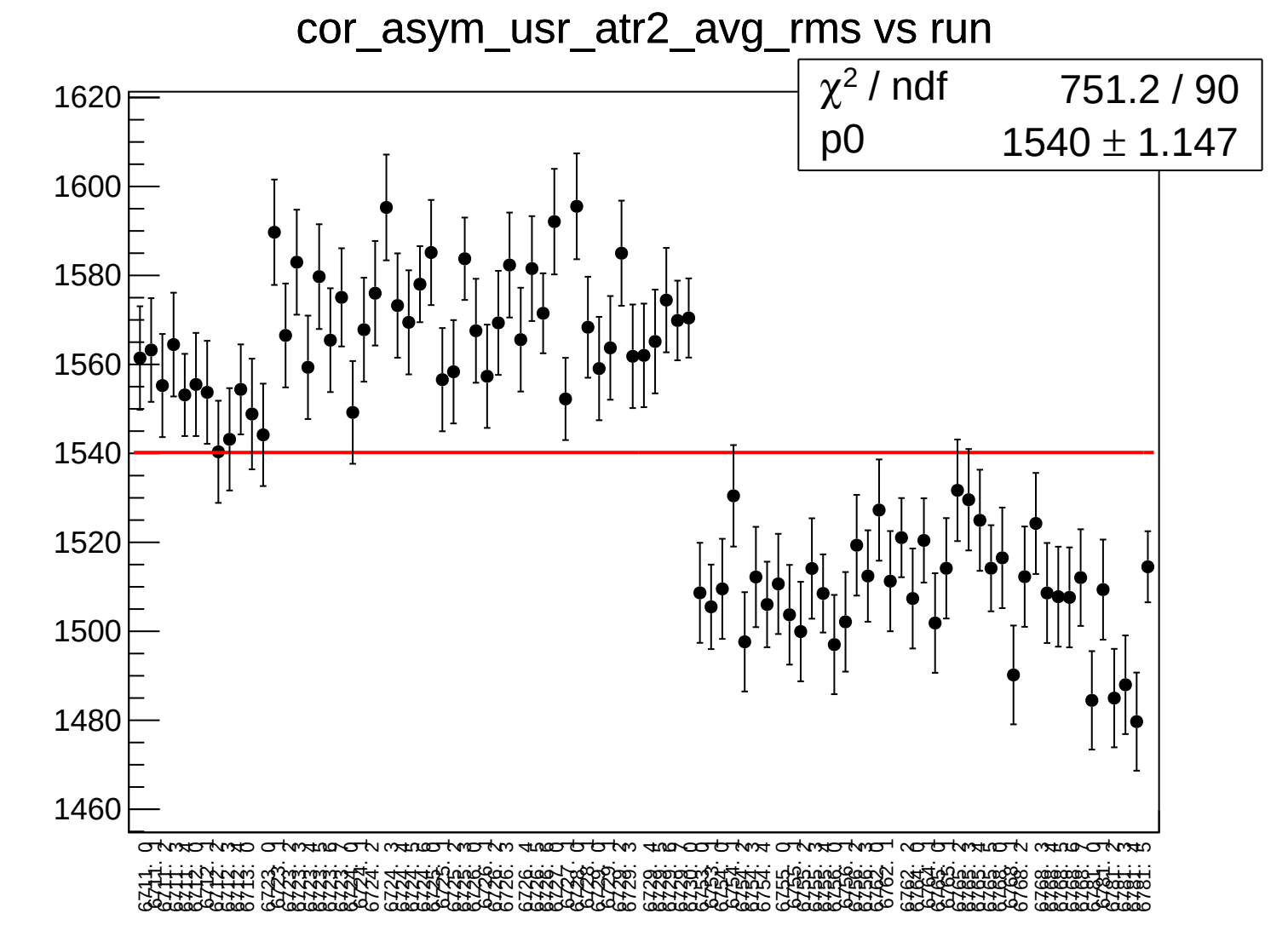

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 81.14 / 90
p0 −1369 ± 4632
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −65.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

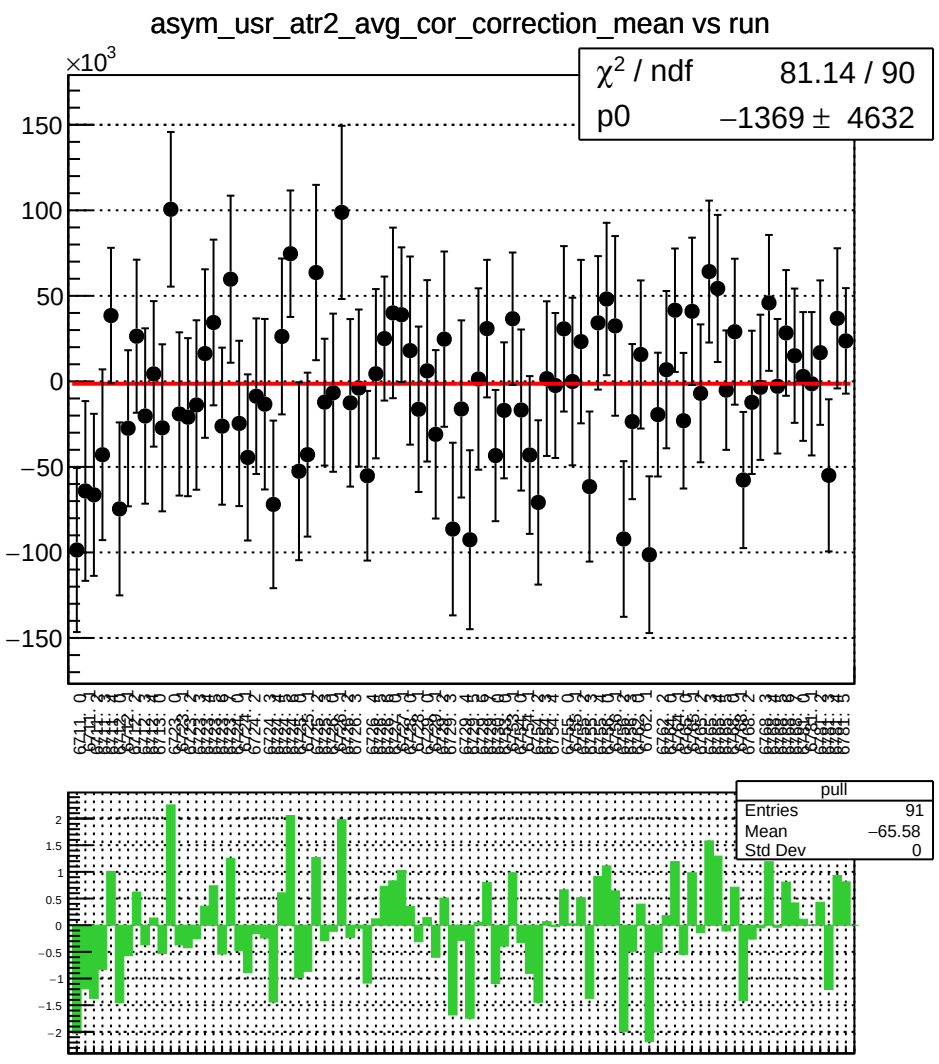

pull1D
Entries 91
Mean −0.03367
Std Dev 0.9437
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

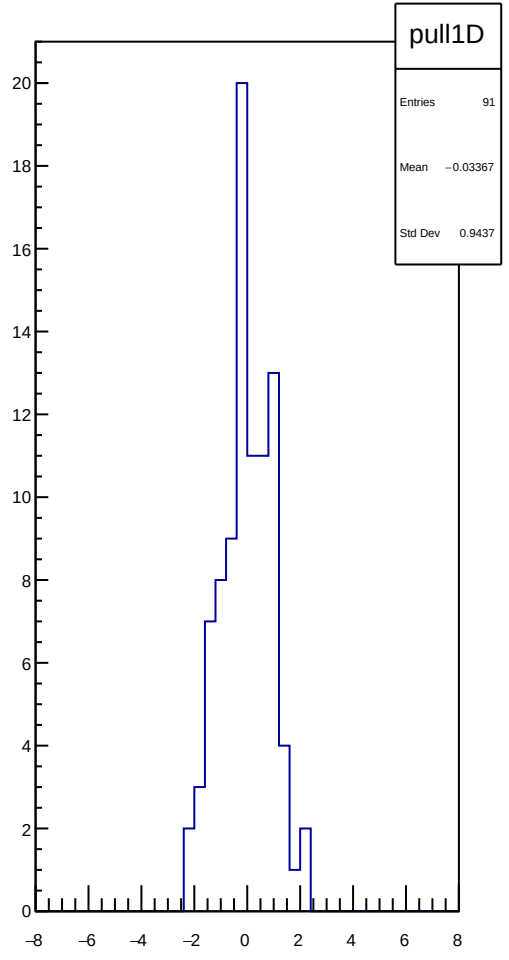

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 1.413e+04 / 90
p0 4383 ± 3.276
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

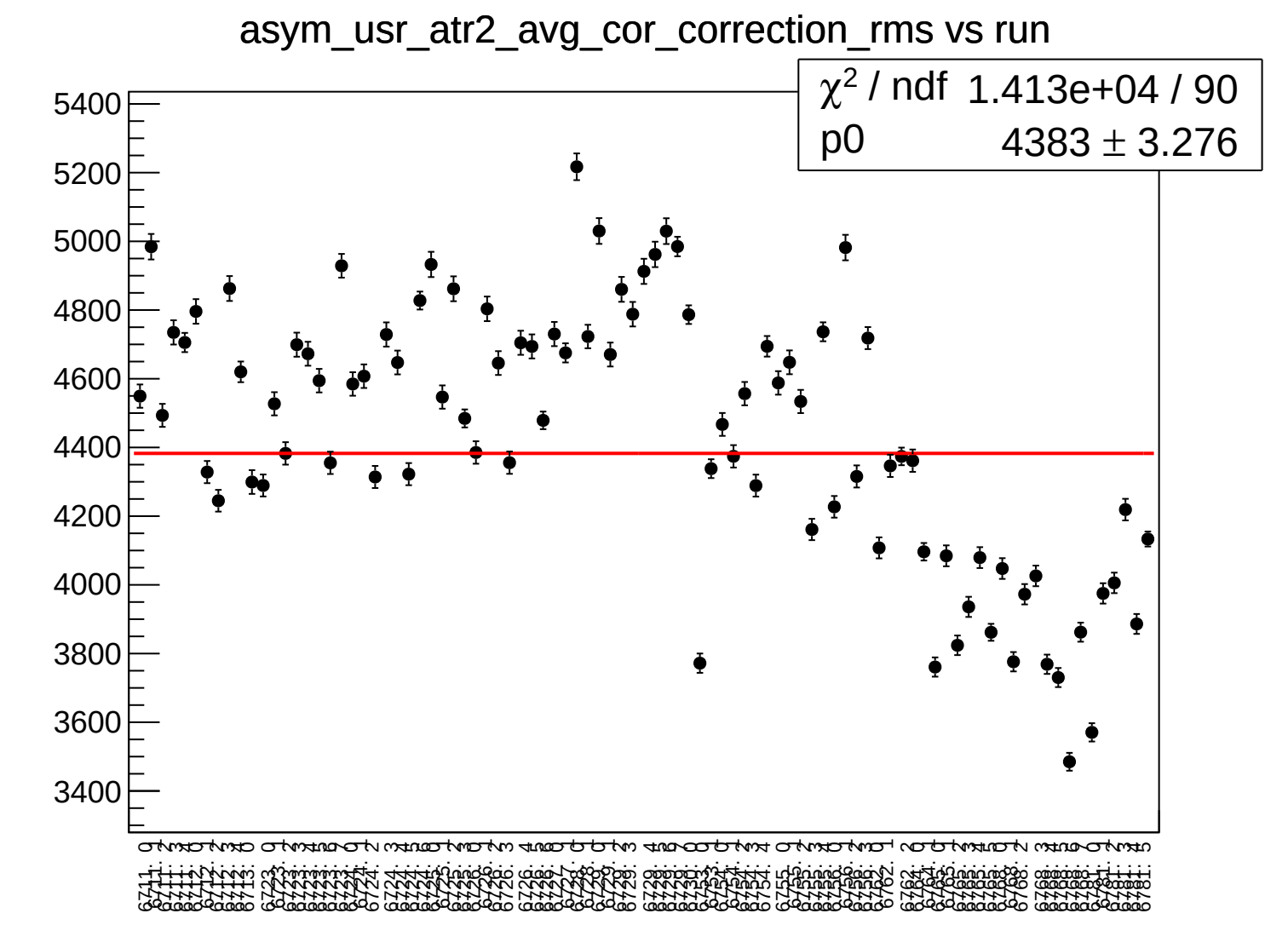

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 91.3 / 90
p0 −3088 ± 1622
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −164.3
Std Dev 0
2
1
0
−1
−2

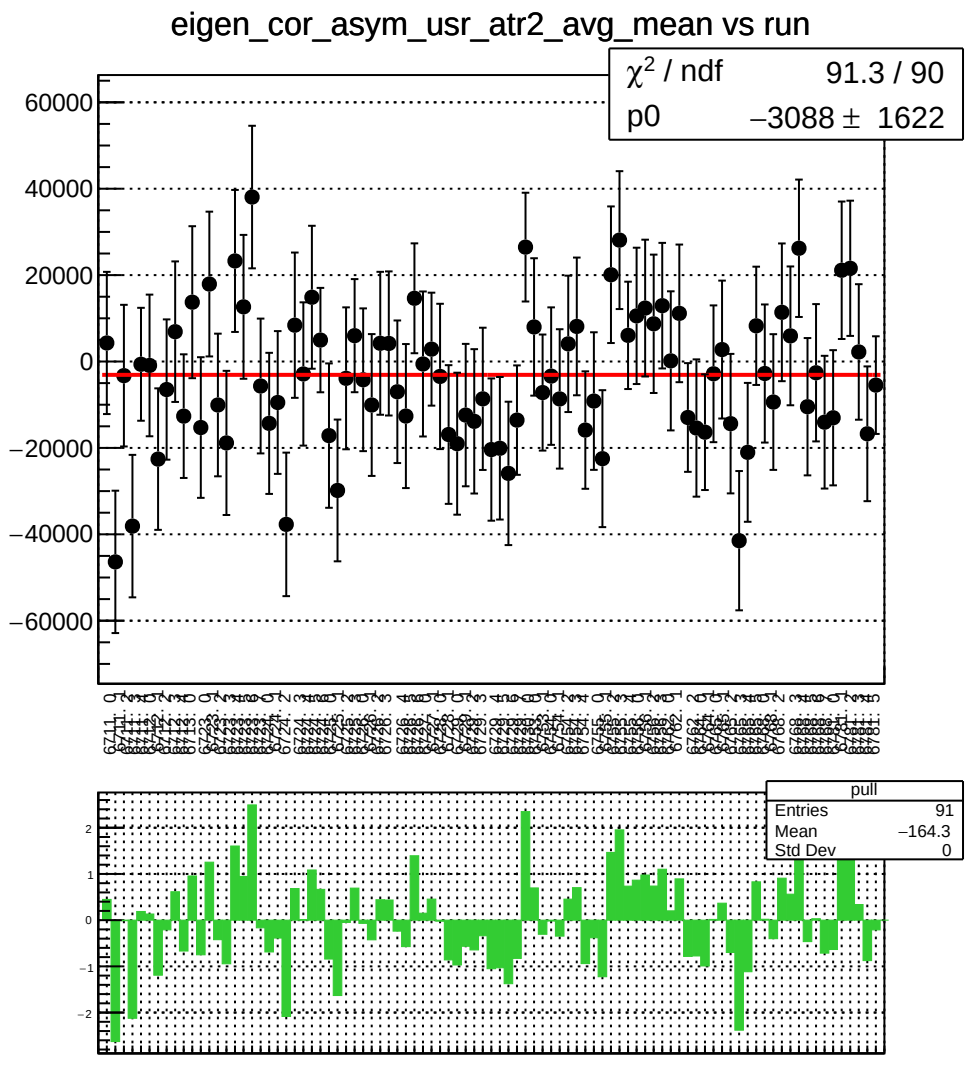

pull1D
Entries 91
Mean −0.01354
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

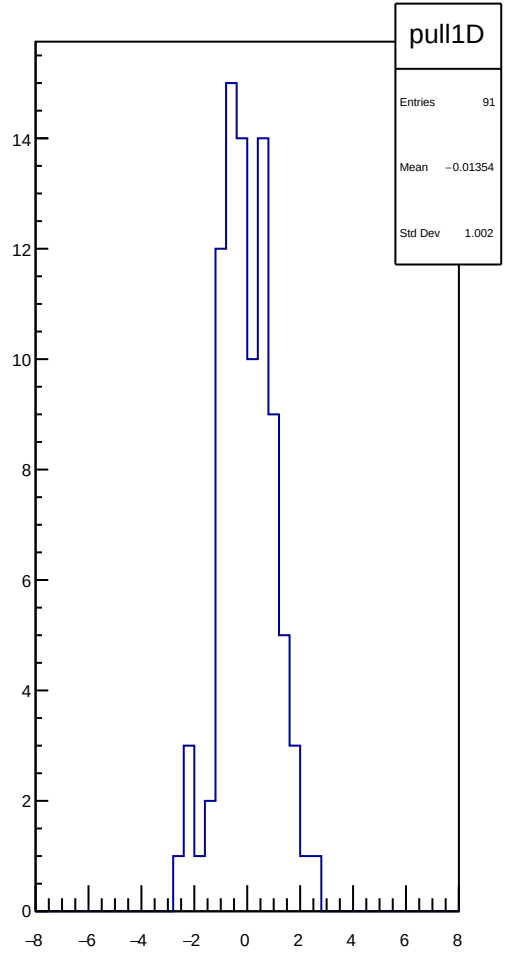

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 751.2 / 90
p0 1540 ± 1.147
1620
1600
1580
1560
1540
1520
1500
1480
1460

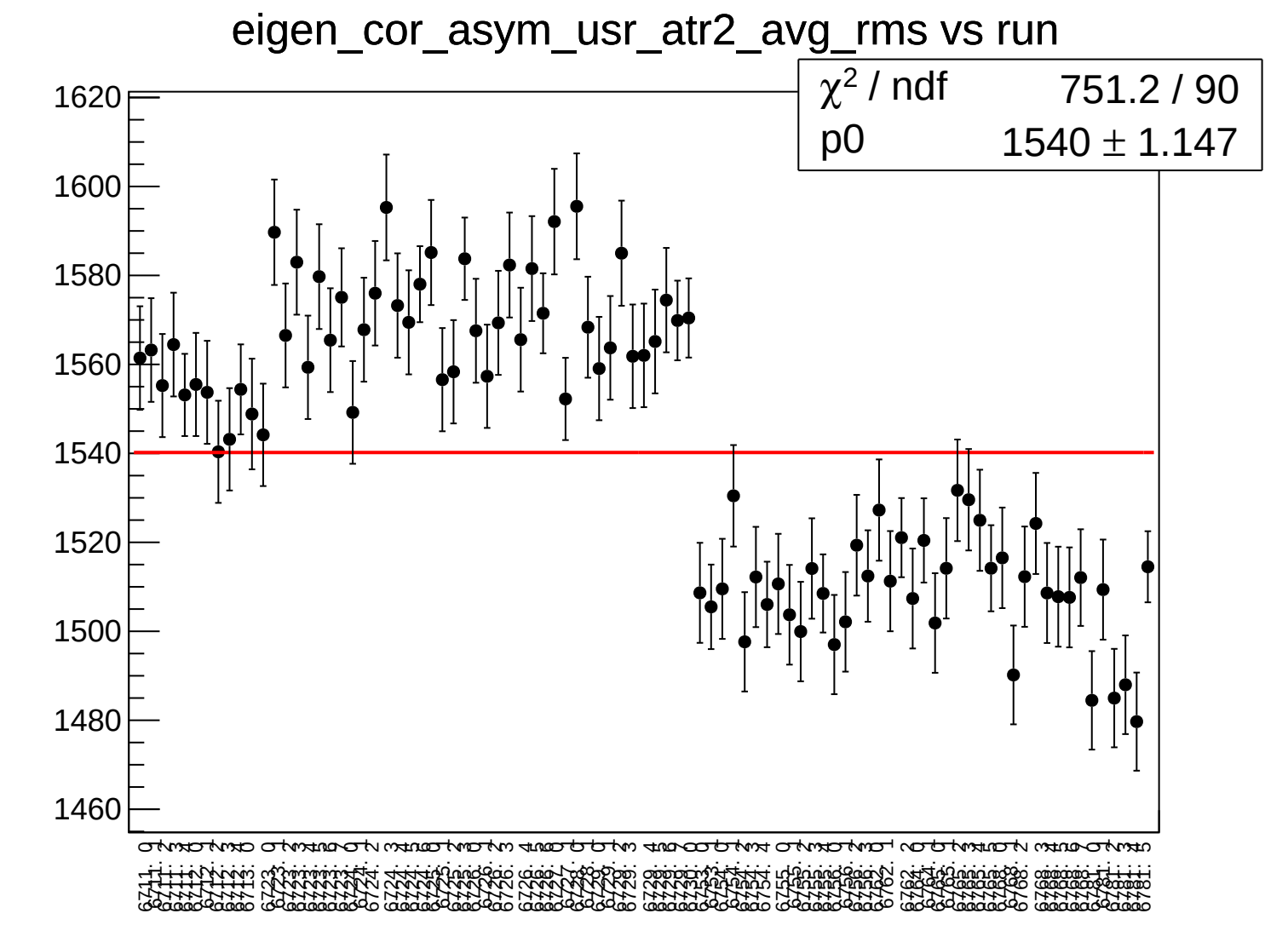

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 81.14 / 90
p0 −1369 ± 4632
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −65.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

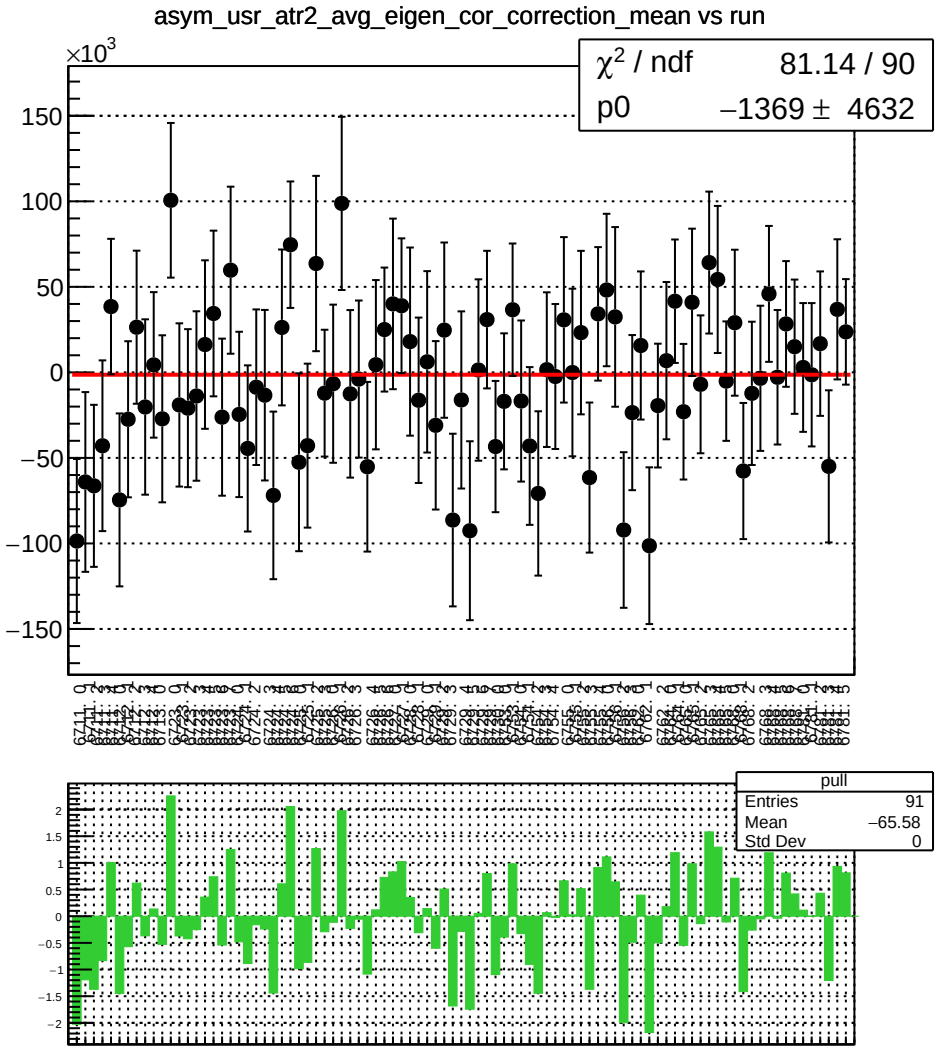

pull1D
Entries 91
Mean −0.03367
Std Dev 0.9437
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

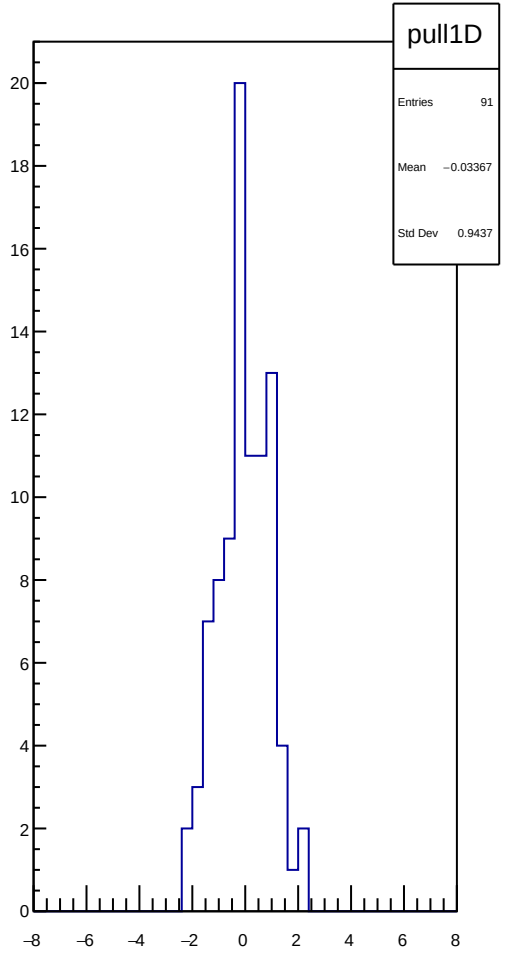

asym_usr_atr2_avg_cor_correction_rms vs run
χ^2 / ndf 1.413e+04 / 90
p0 4383 ± 3.276
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

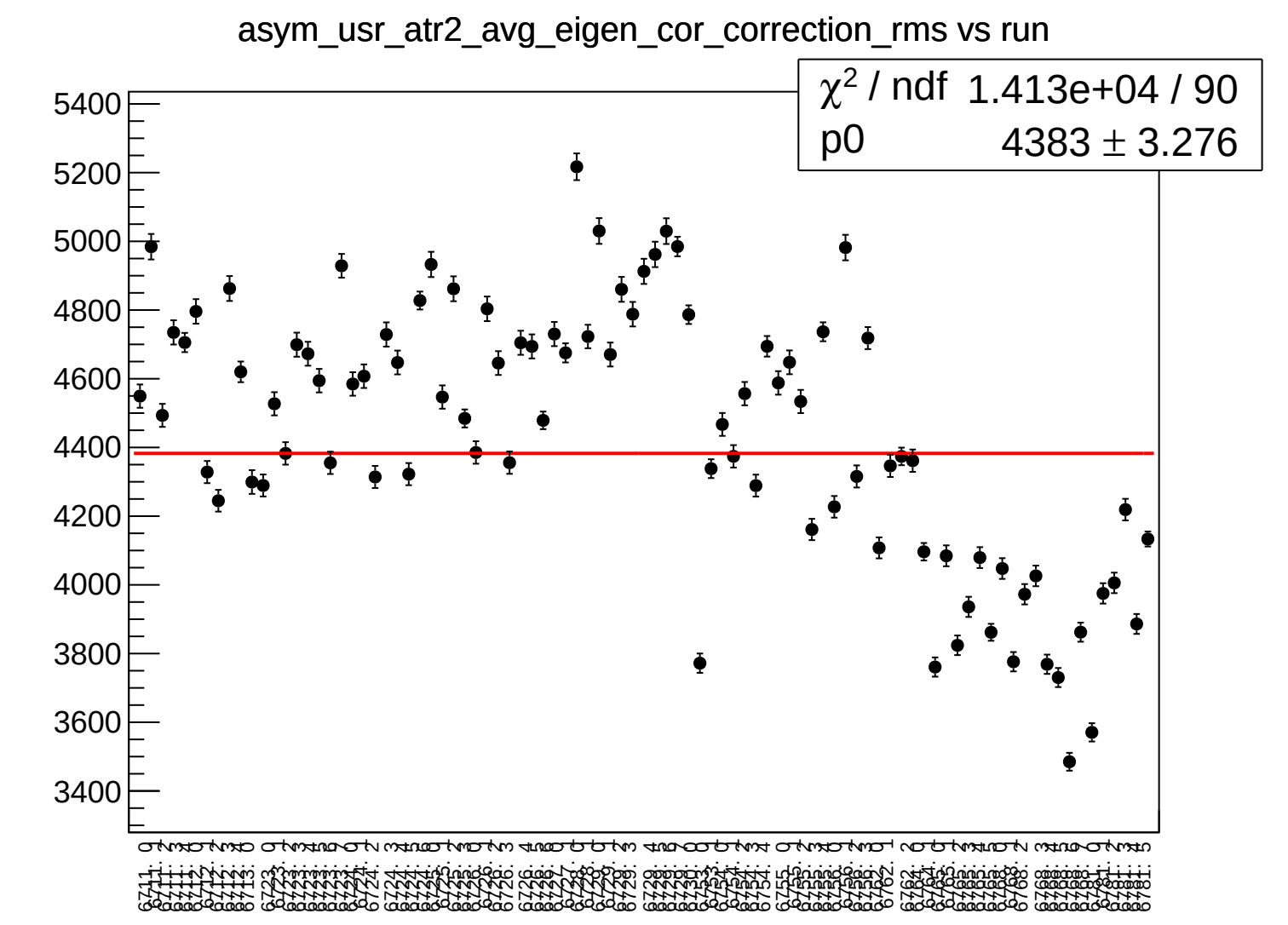

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 91.3 / 90
p0 −3088 ± 1622
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −164.3
Std Dev 0
2
1
0
−1
−2

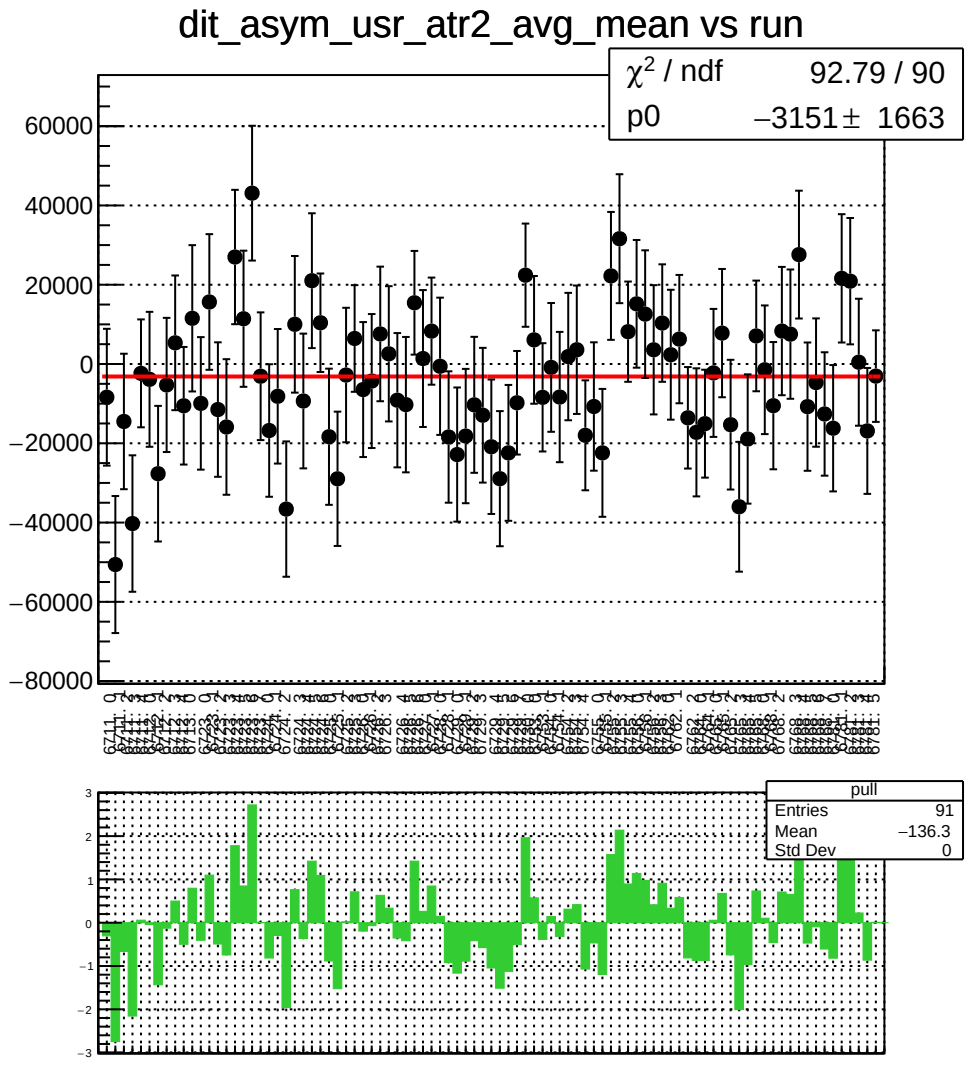

pull1D
Entries 91
Mean −0.01354
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

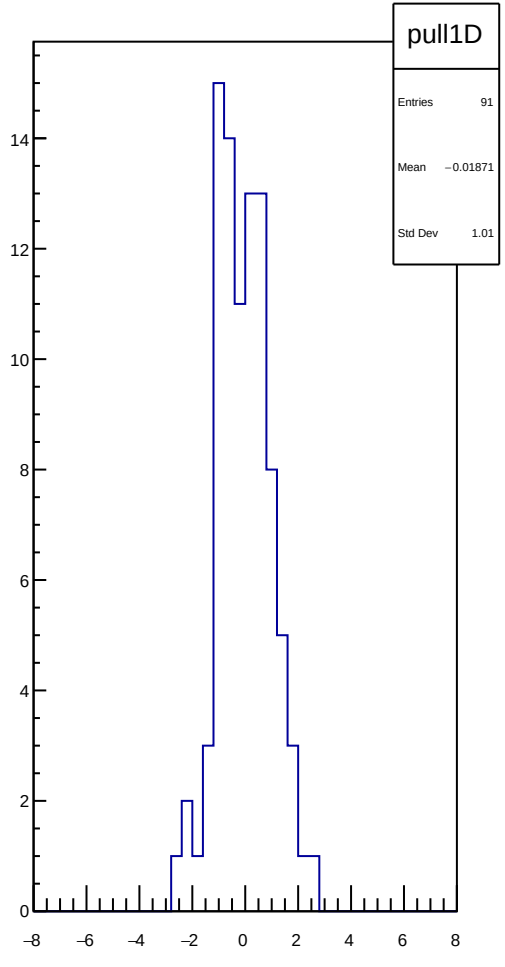

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 751.2 / 90
p0 1540 ± 1.147
1620
1600
1580
1560
1540
1520
1500
1480
1460

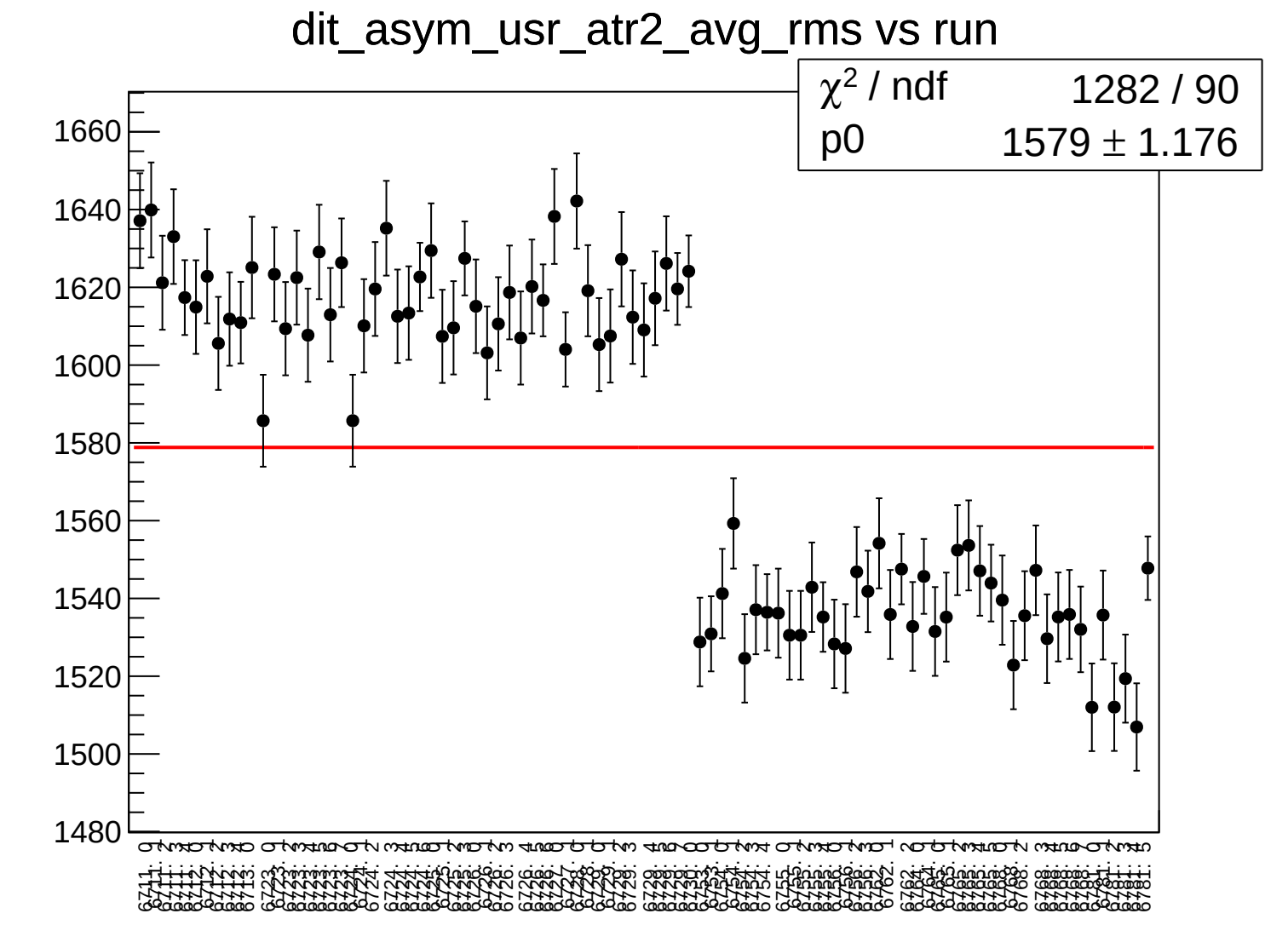

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.14 / 90
p0 −1369 ± 4632
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −65.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

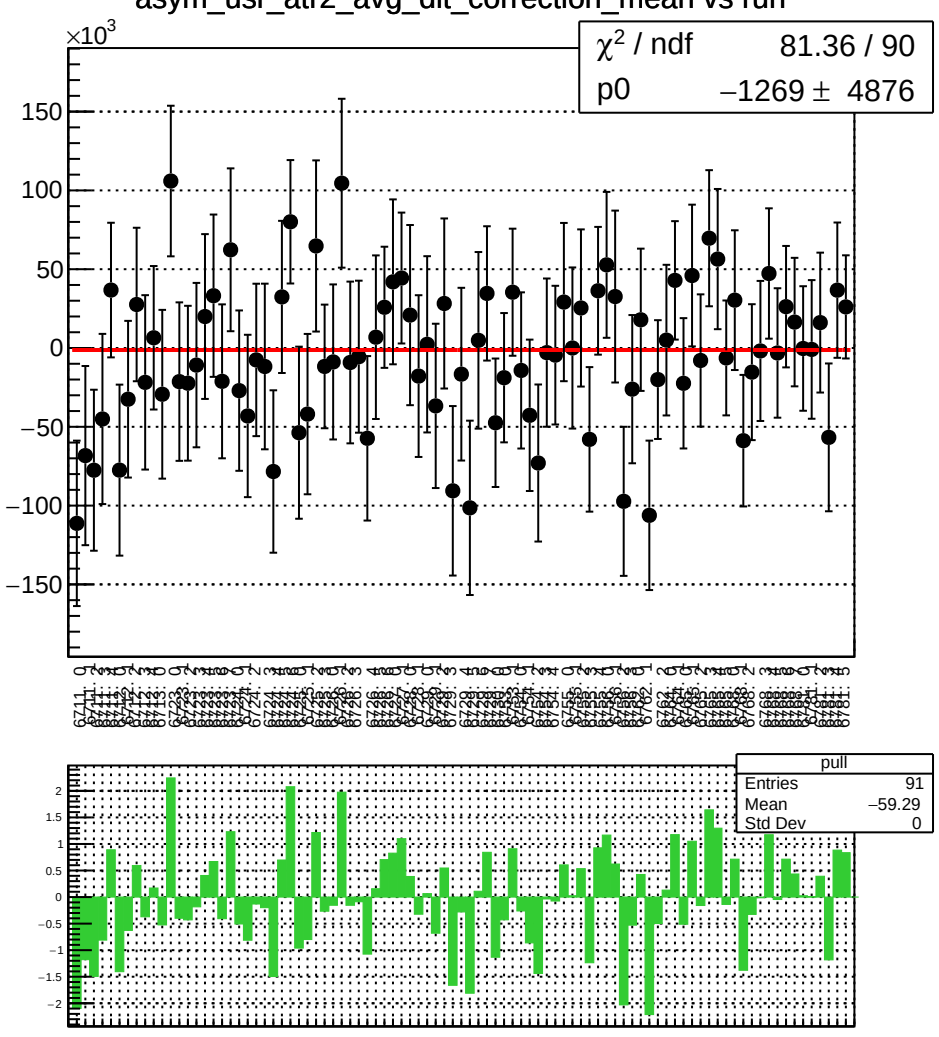

pull1D
Entries 91
Mean −0.03367
Std Dev 0.9437
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

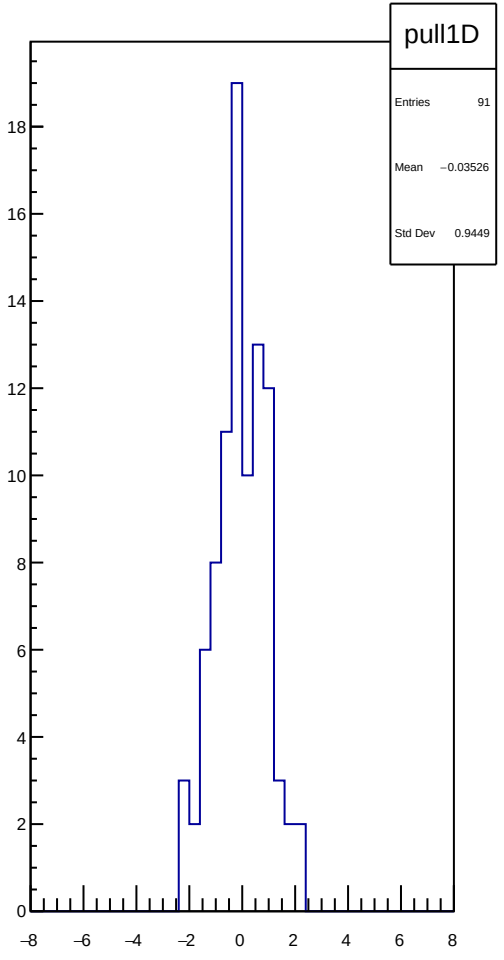

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.413e+04 / 90
p0 4383 ± 3.276
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

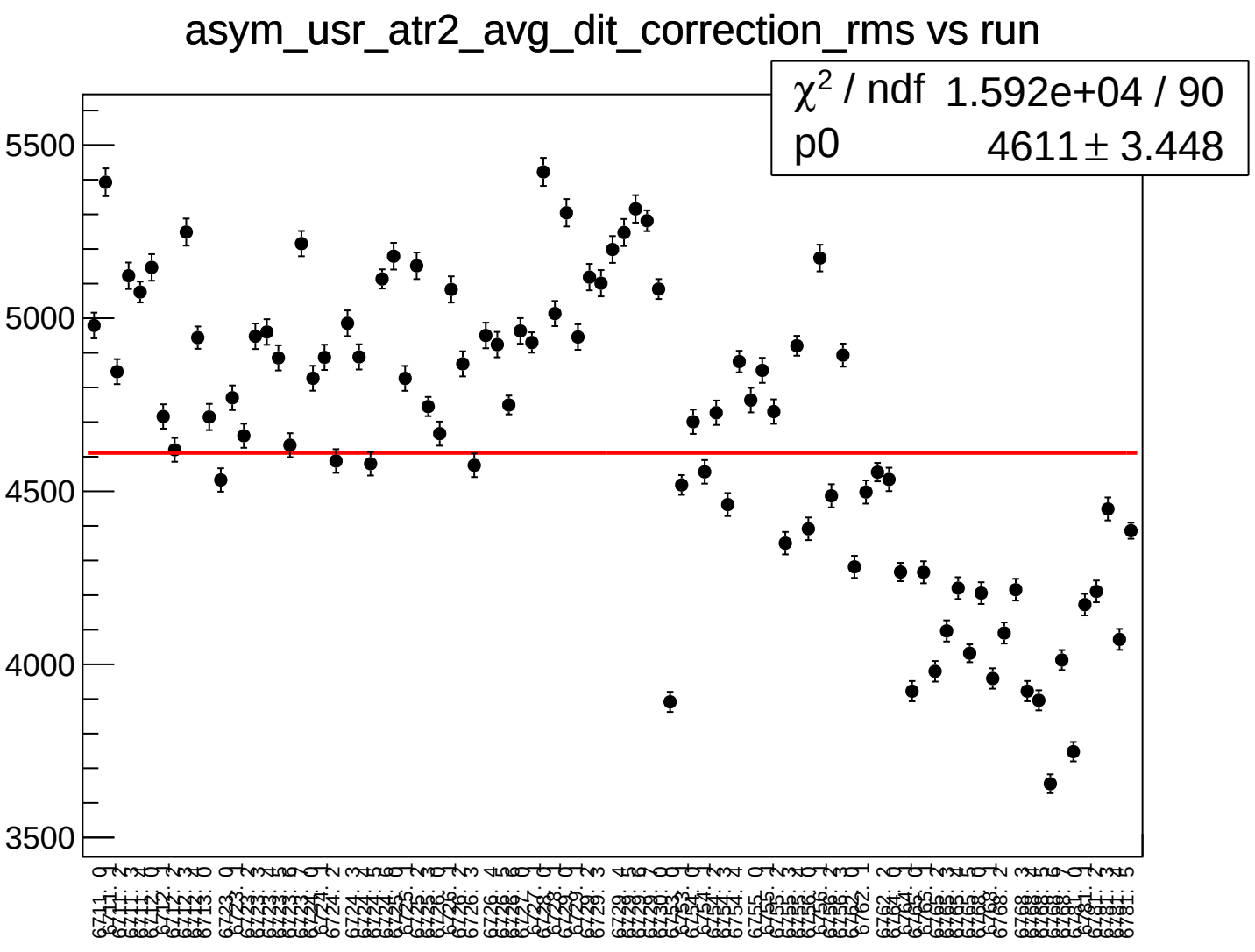

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 92.79 / 90
p0 −3151 ± 1663
pull
Entries 91
Mean −136.3
Std Dev 0

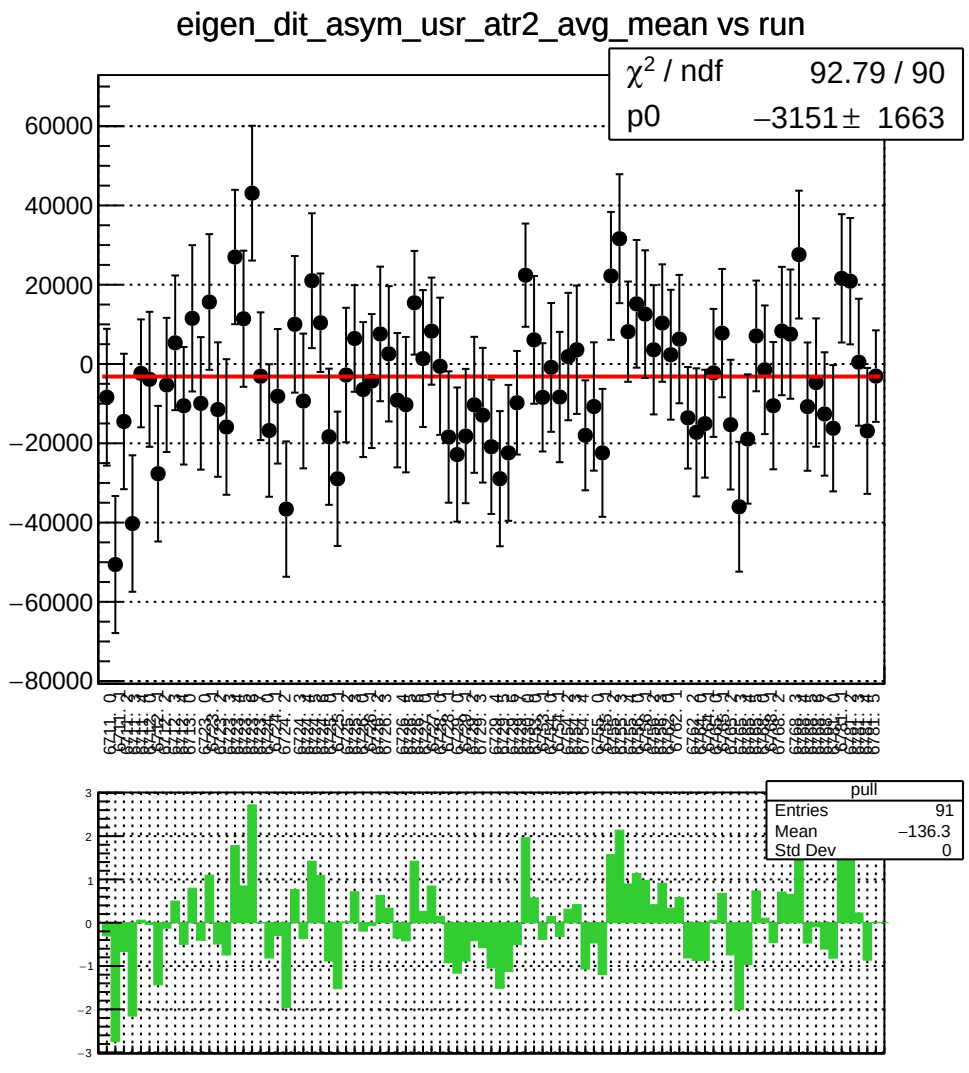

pull1D
Entries 91
Mean −0.01871
Std Dev 1.01

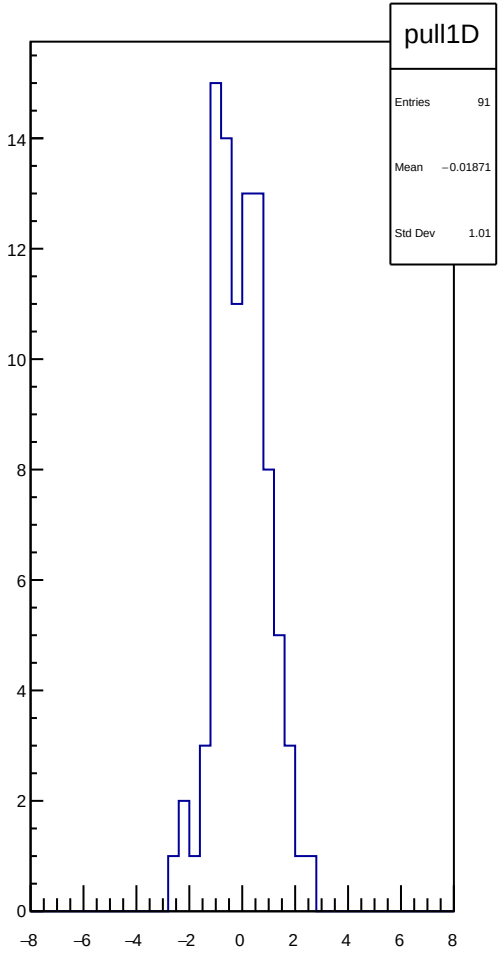

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 1282 / 90
p0 1579 ± 1.176
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480

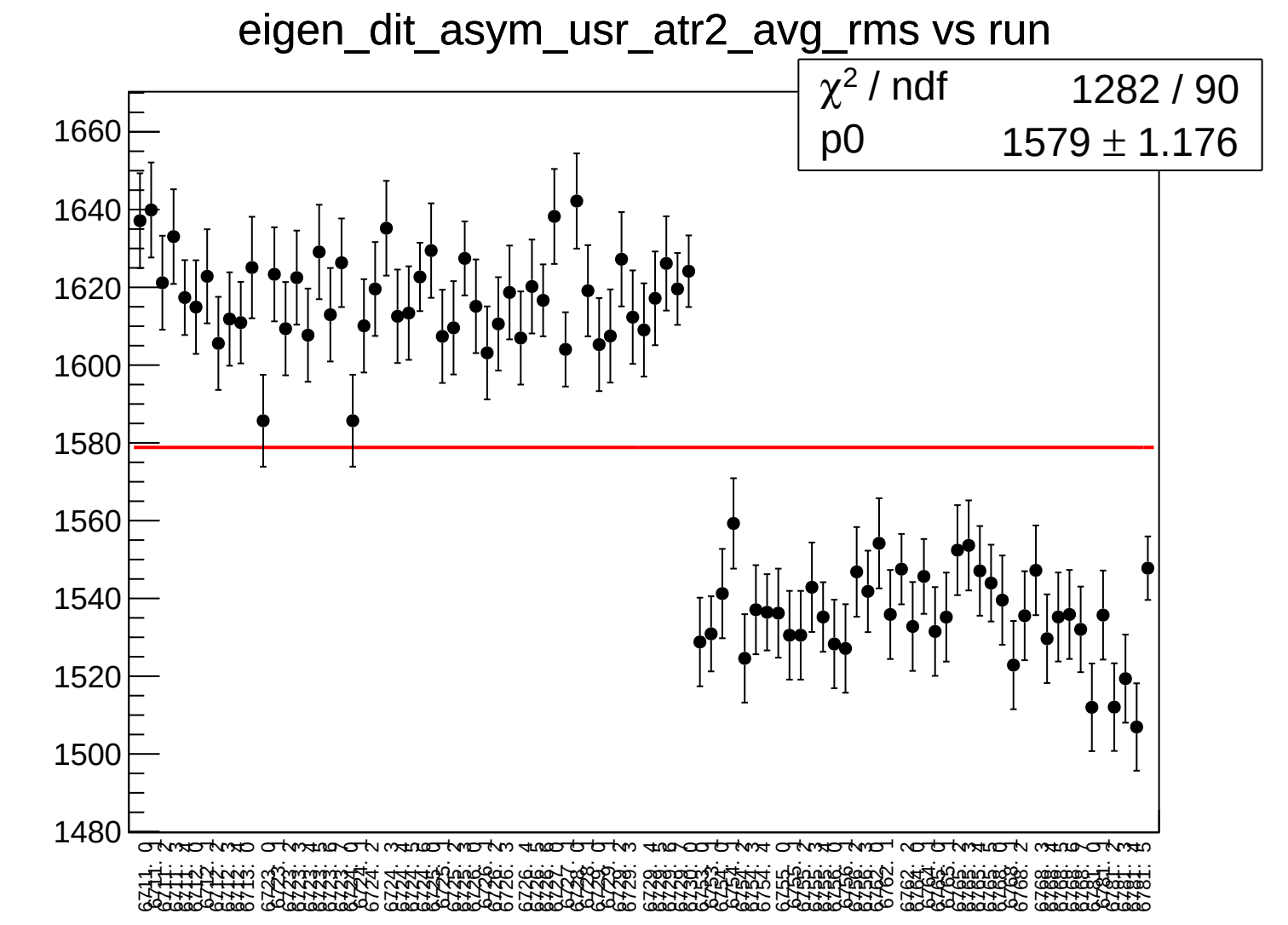

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 81.36 / 90
p0 −1269 ± 4876
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −59.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

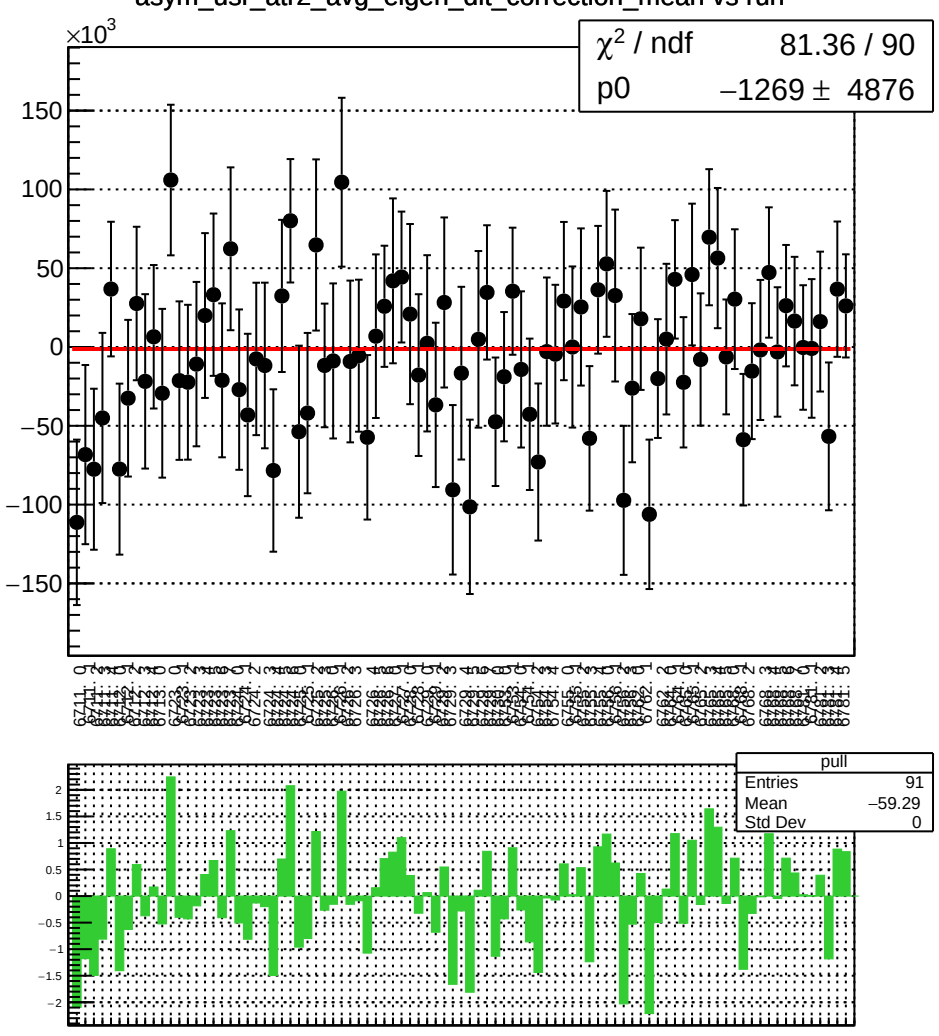

pull1D
Entries 91
Mean −0.03526
Std Dev 0.9449
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

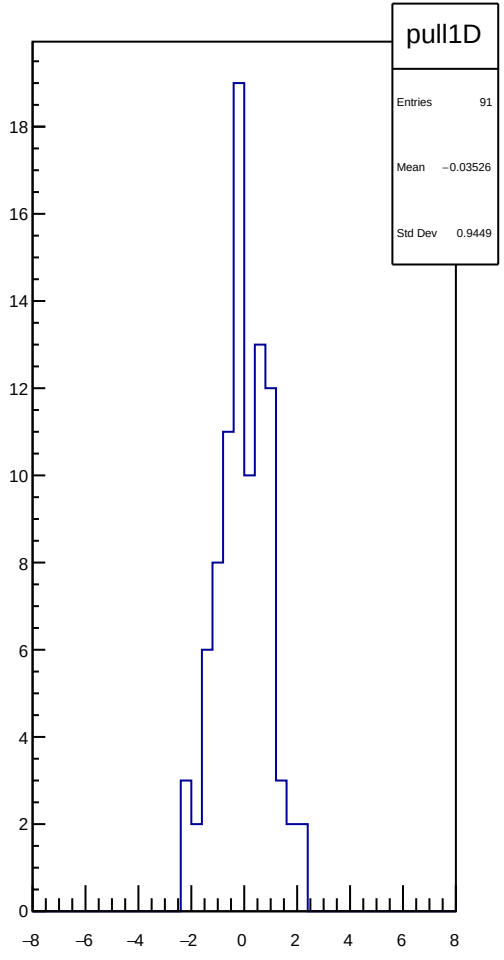

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 1.592e+04 / 90
p0 4611 ± 3.448
5500
5000
4500
4000
3500

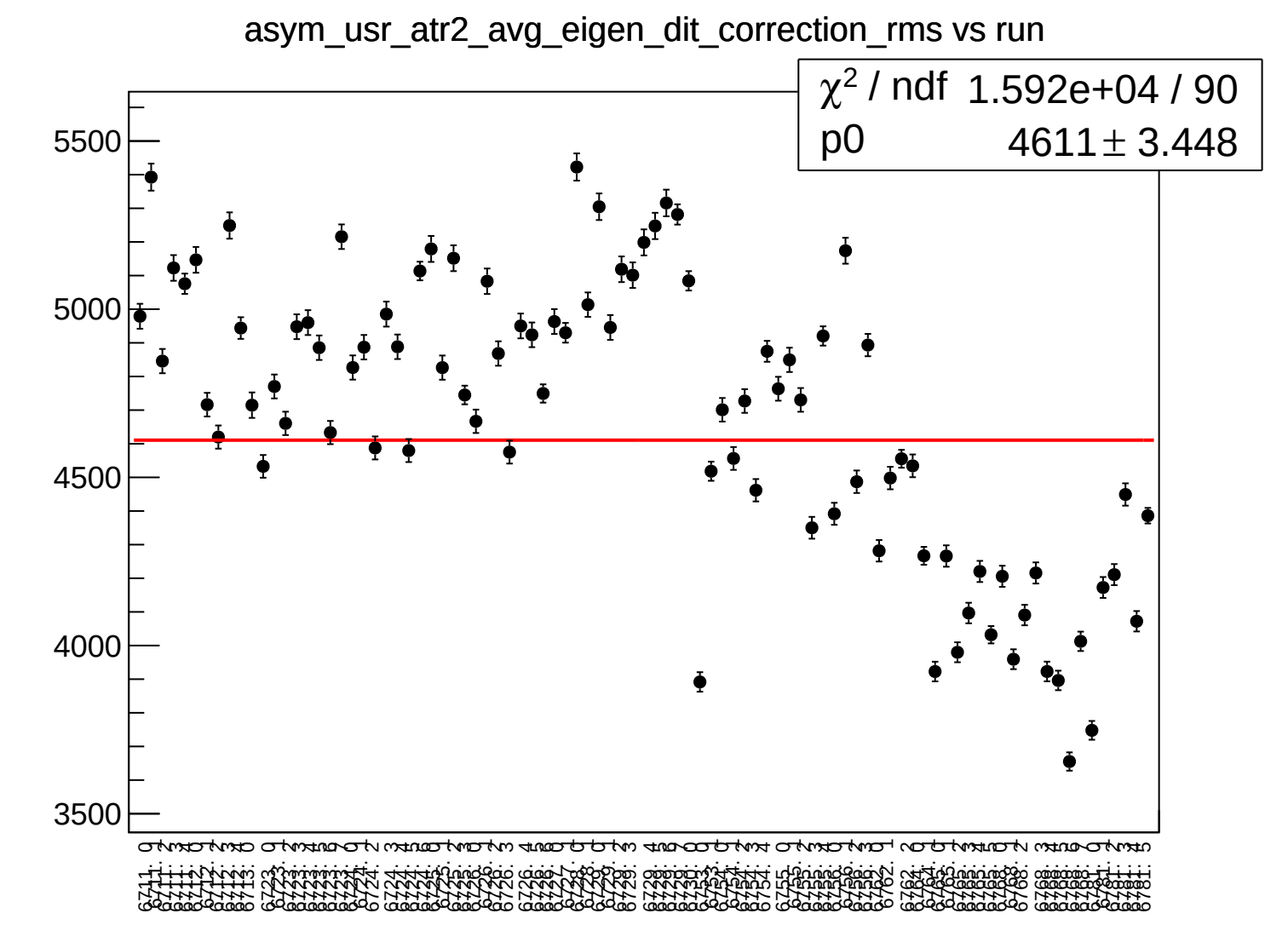

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 92.79 / 90
p0 −3151 ± 1663
pull
Entries 91
Mean −136.3
Std Dev 0

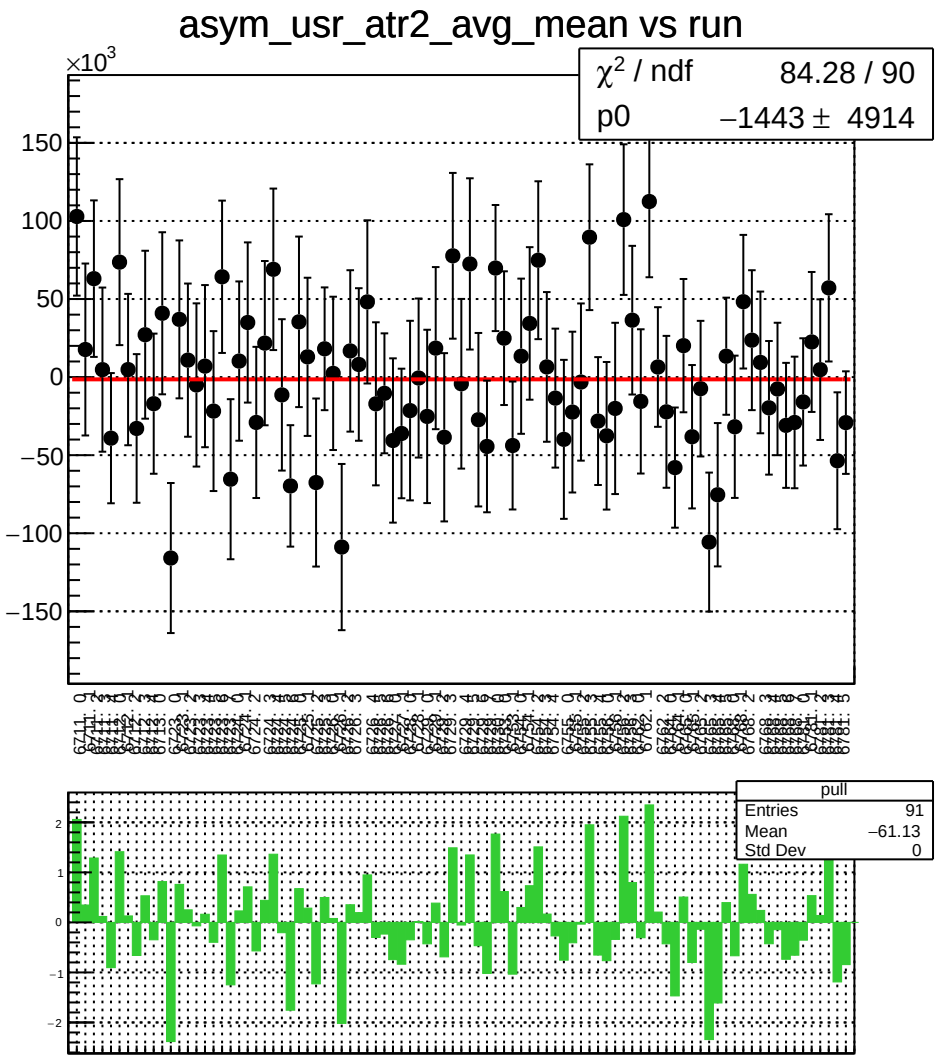

pull1D
Entries 91
Mean −0.01871
Std Dev 1.01

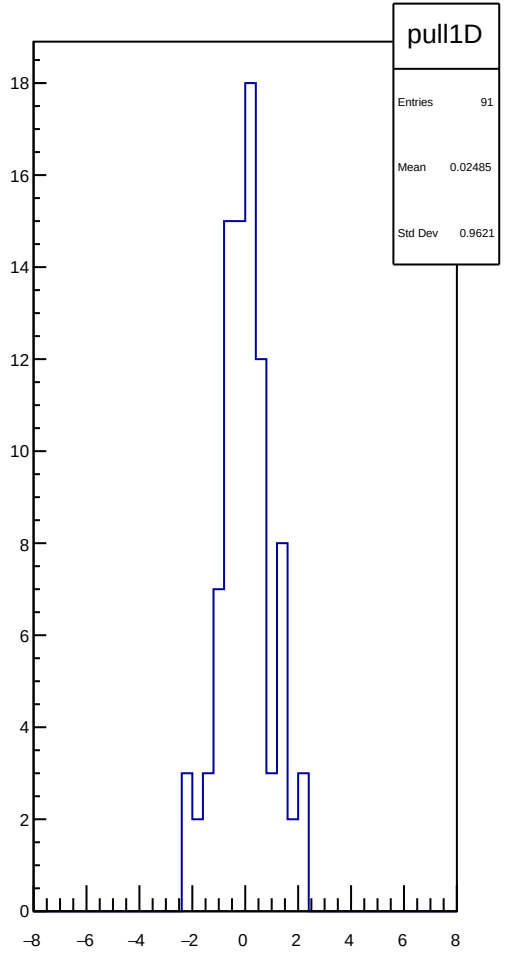

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 1282 / 90
p0 1579 ± 1.176
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480

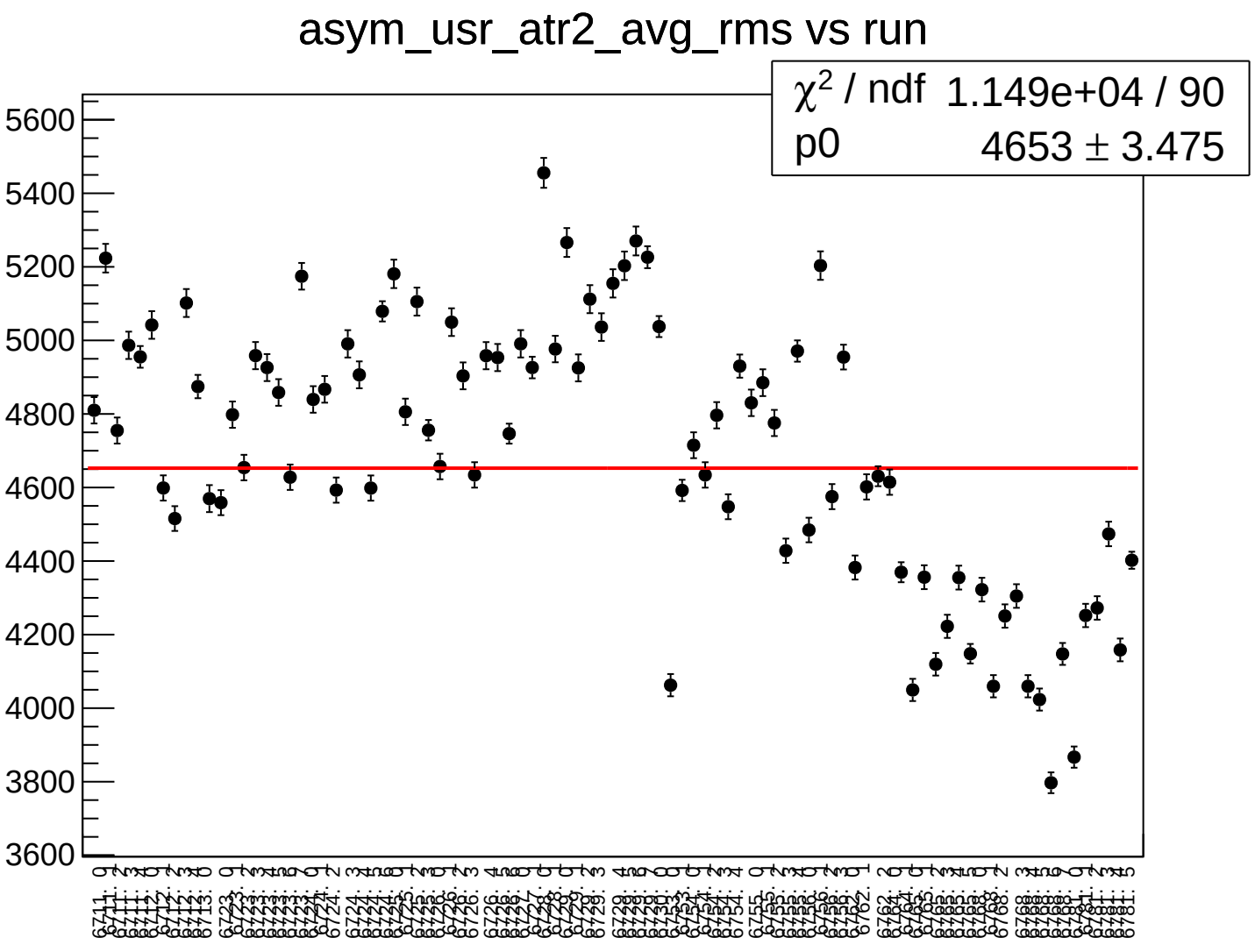

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.36 / 90
p0 −1269 ± 4876
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −59.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

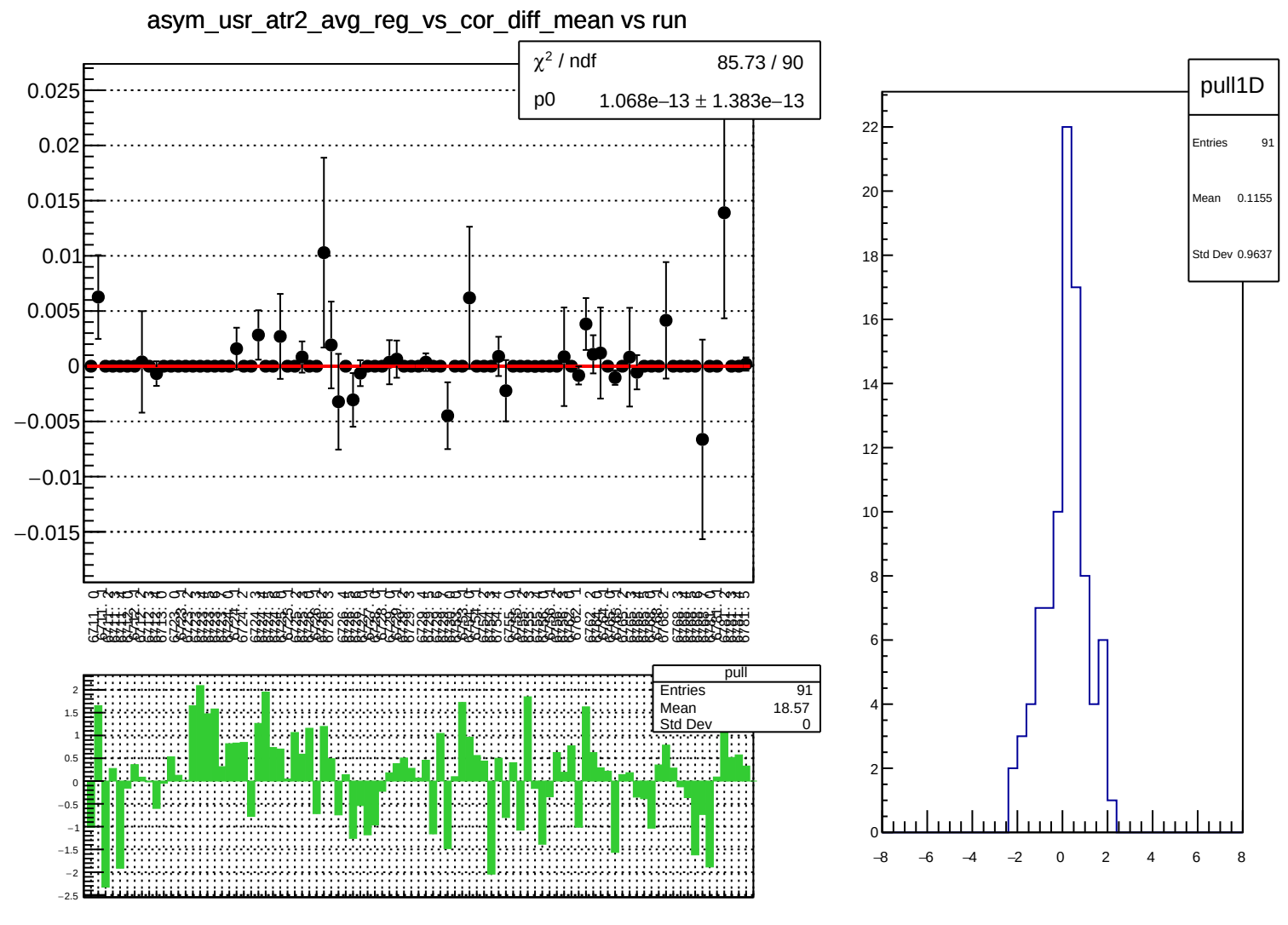

pull1D
Entries 91
Mean −0.03526
Std Dev 0.9449
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

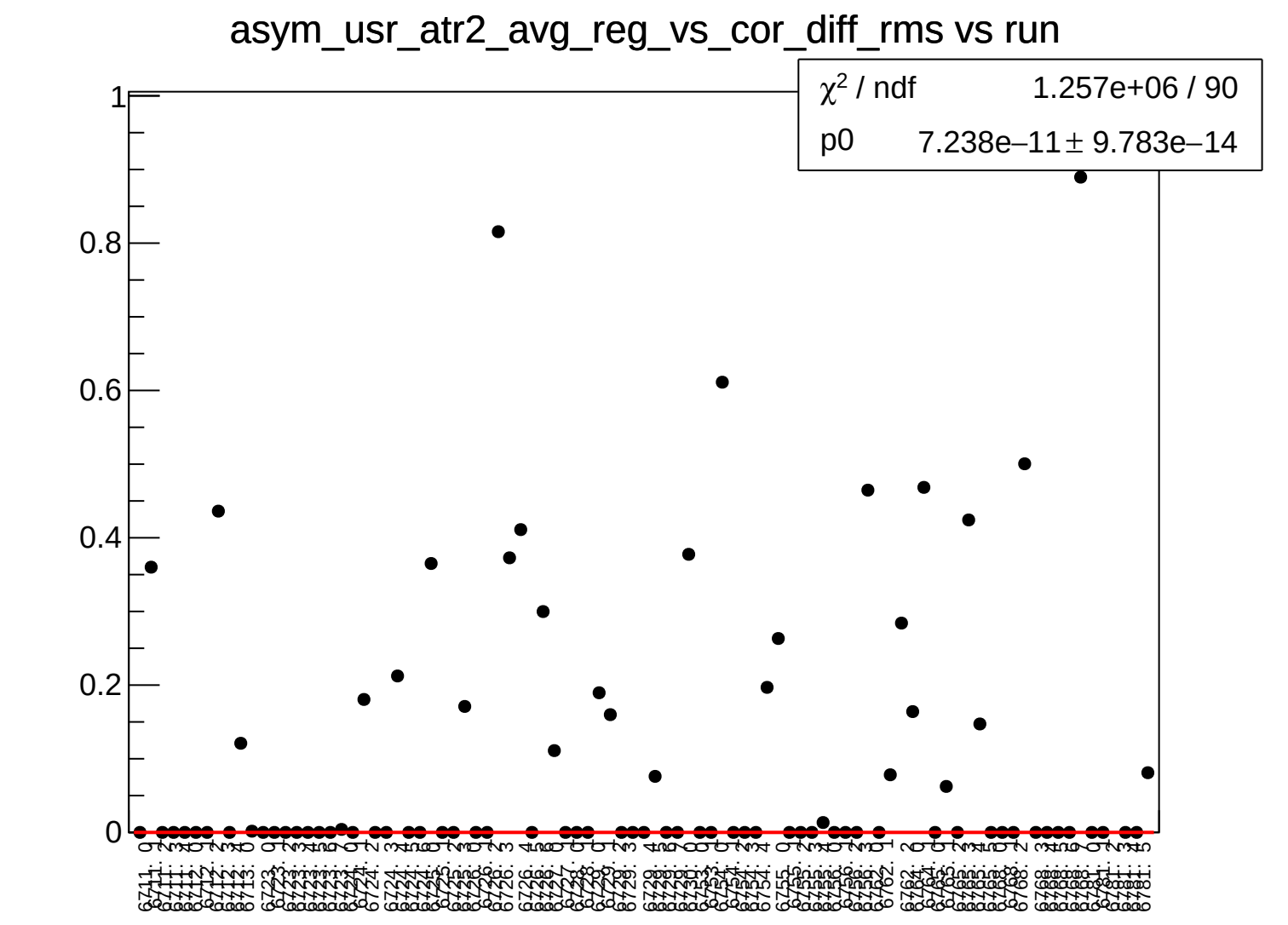

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.592e+04 / 90
p0 4611 ± 3.448
5500
5000
4500
4000
3500

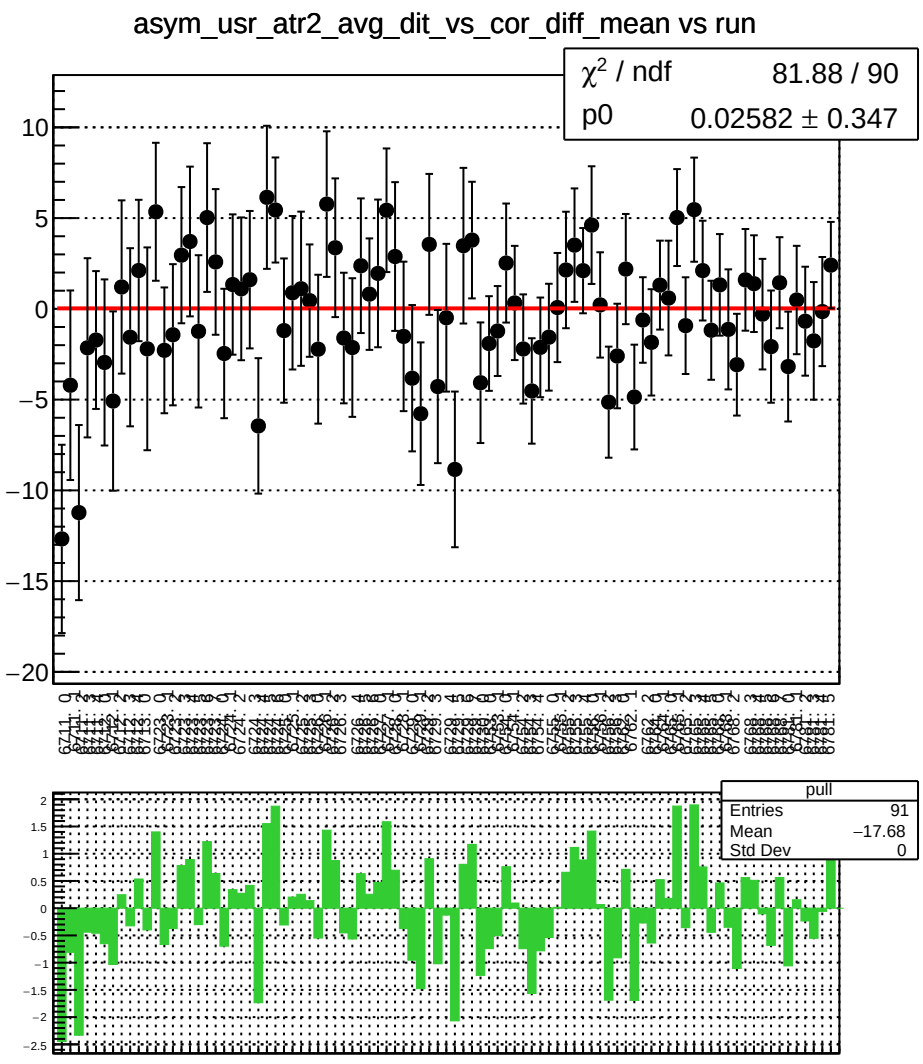

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 84.28 / 90
p0 −1443 ± 4914
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −61.13
Std Dev 0
2
1
0
−1
−2

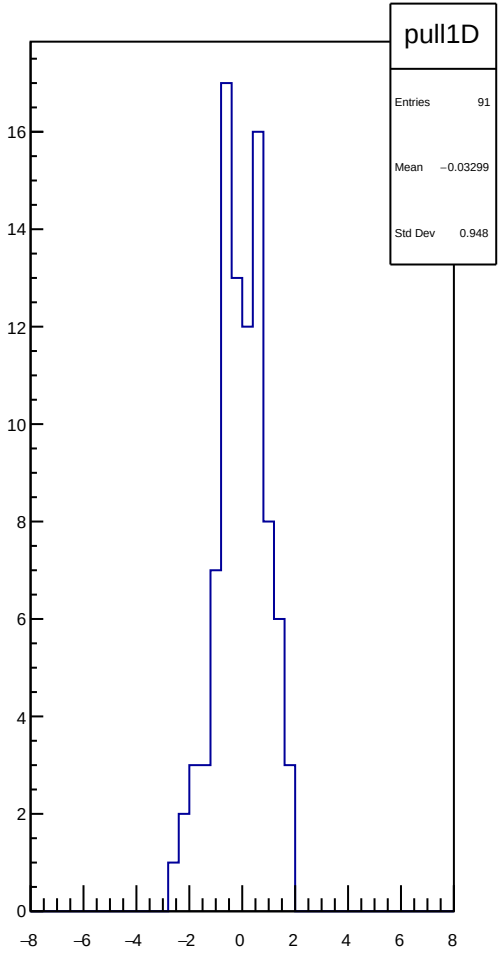

pull1D
Entries 91
Mean 0.02485
Std Dev 0.9621
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

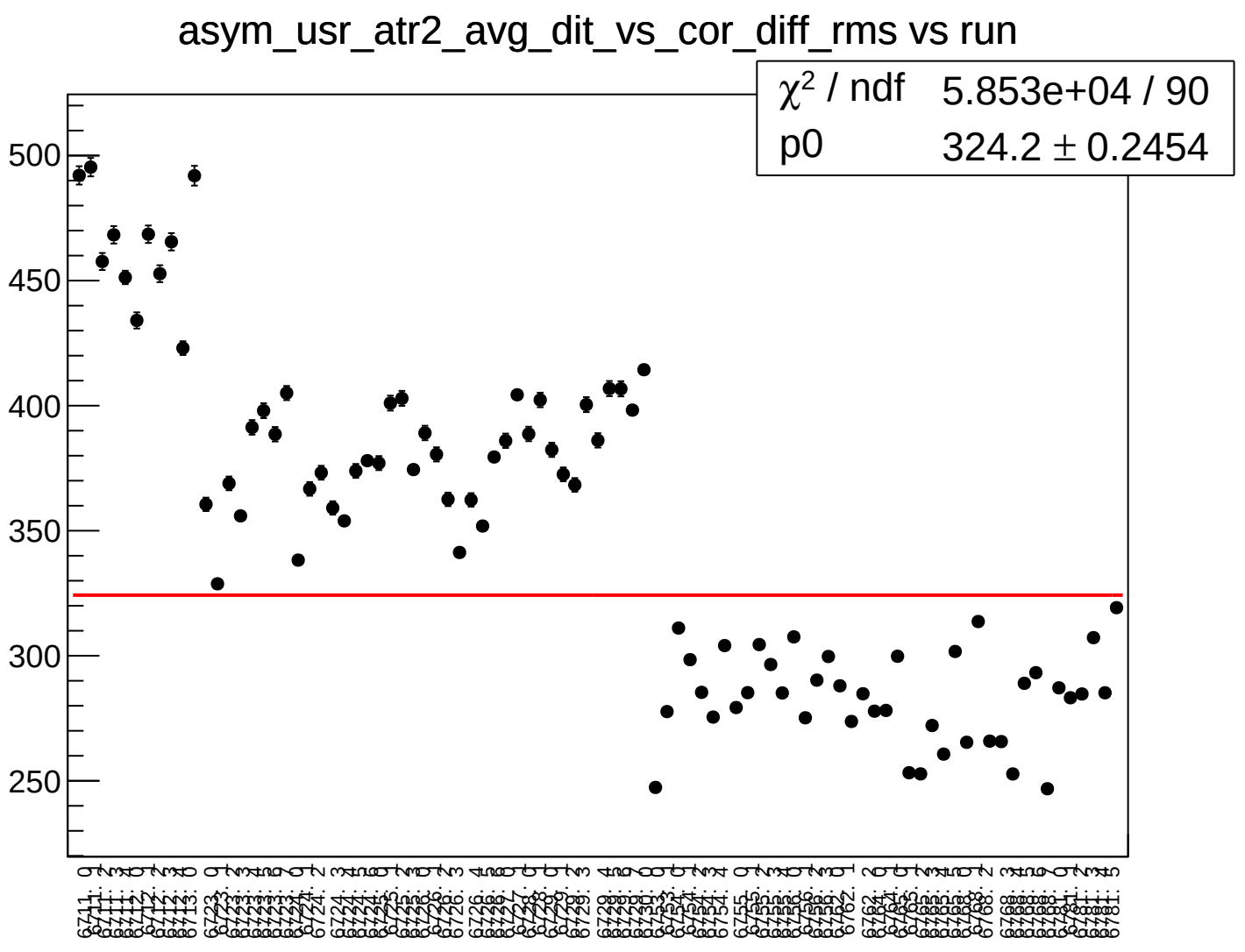

asym_usr_atr2_avg_rms vs run
χ^2 / ndf 1.149e+04 / 90
p0 4653 ± 3.475
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

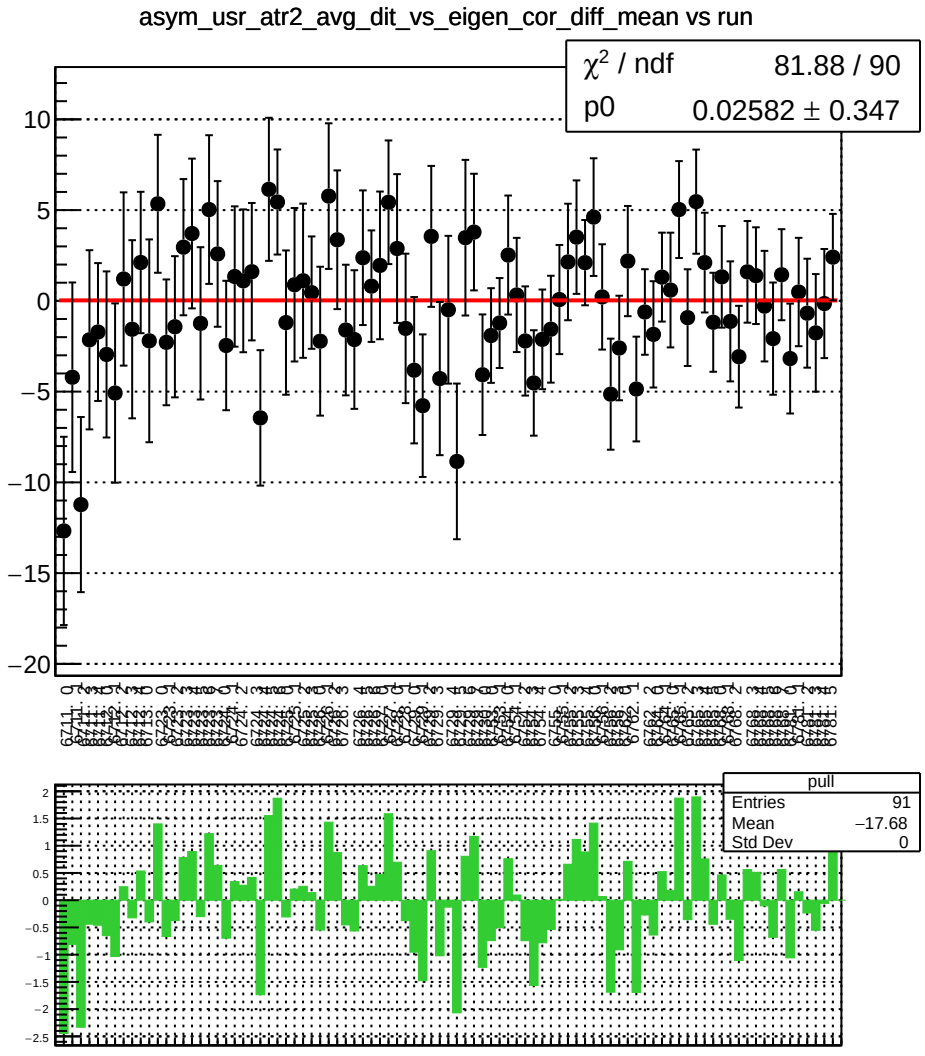

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.73 / 90
p0 1.068e−13 ± 1.383e−13
pull
Entries 91
Mean 18.57
Std Dev 0
pull1D
Entries 91
Mean 0.1155
Std Dev 0.9637

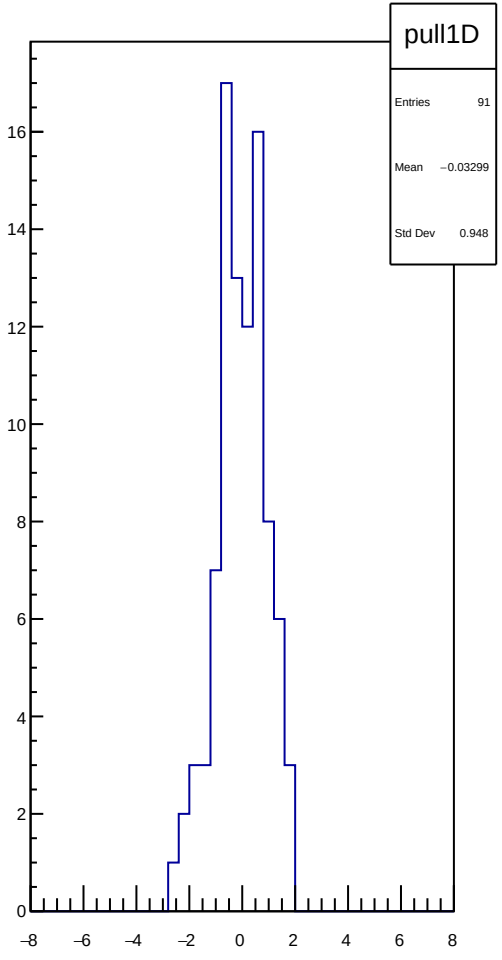

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.257e+06 / 90
p0 7.238e−11 ± 9.783e−14
1
0.8
0.6
0.4
0.2
0

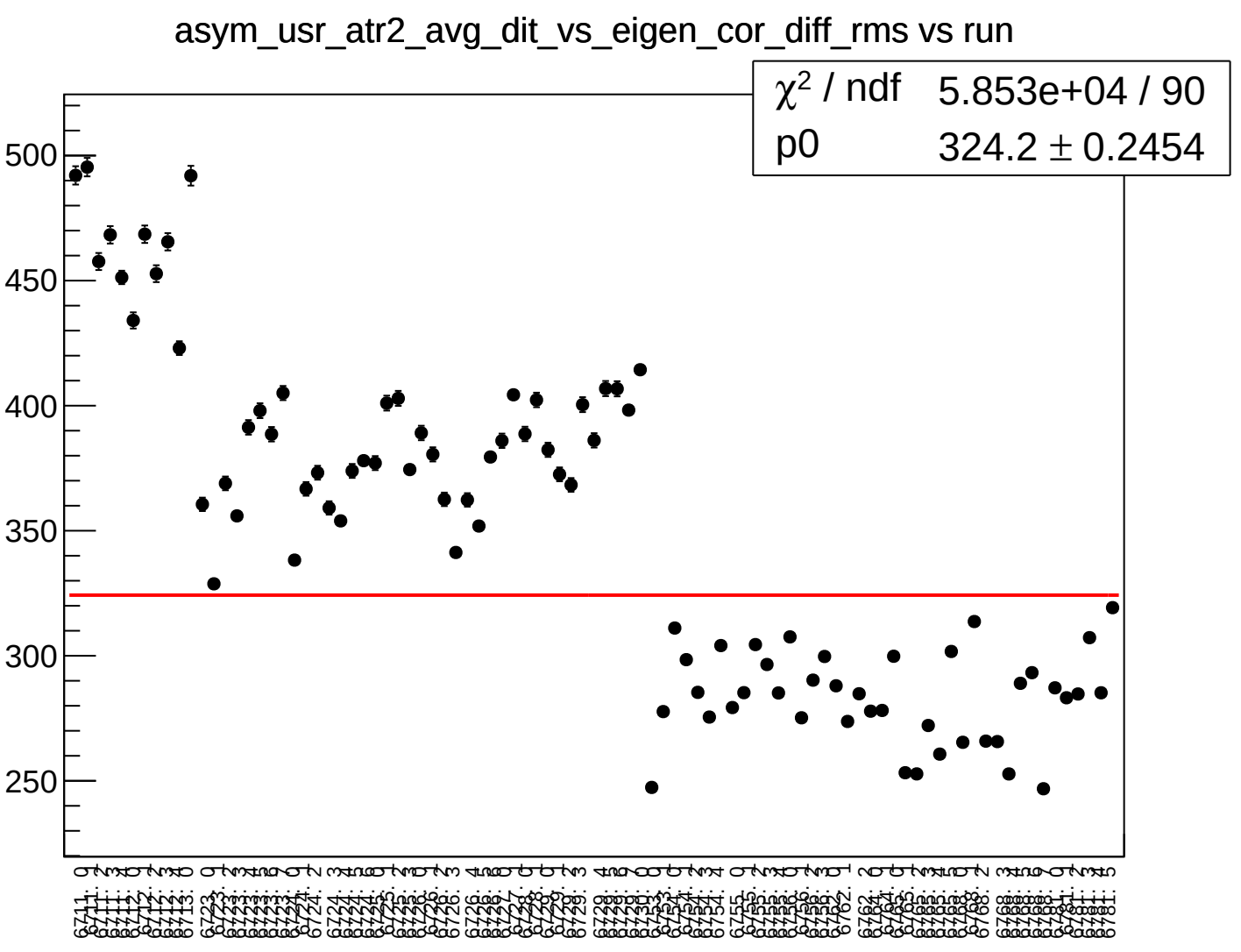

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.88 / 90
p0 0.02582 ± 0.347
pull
Entries 91
Mean −17.68
Std Dev 0

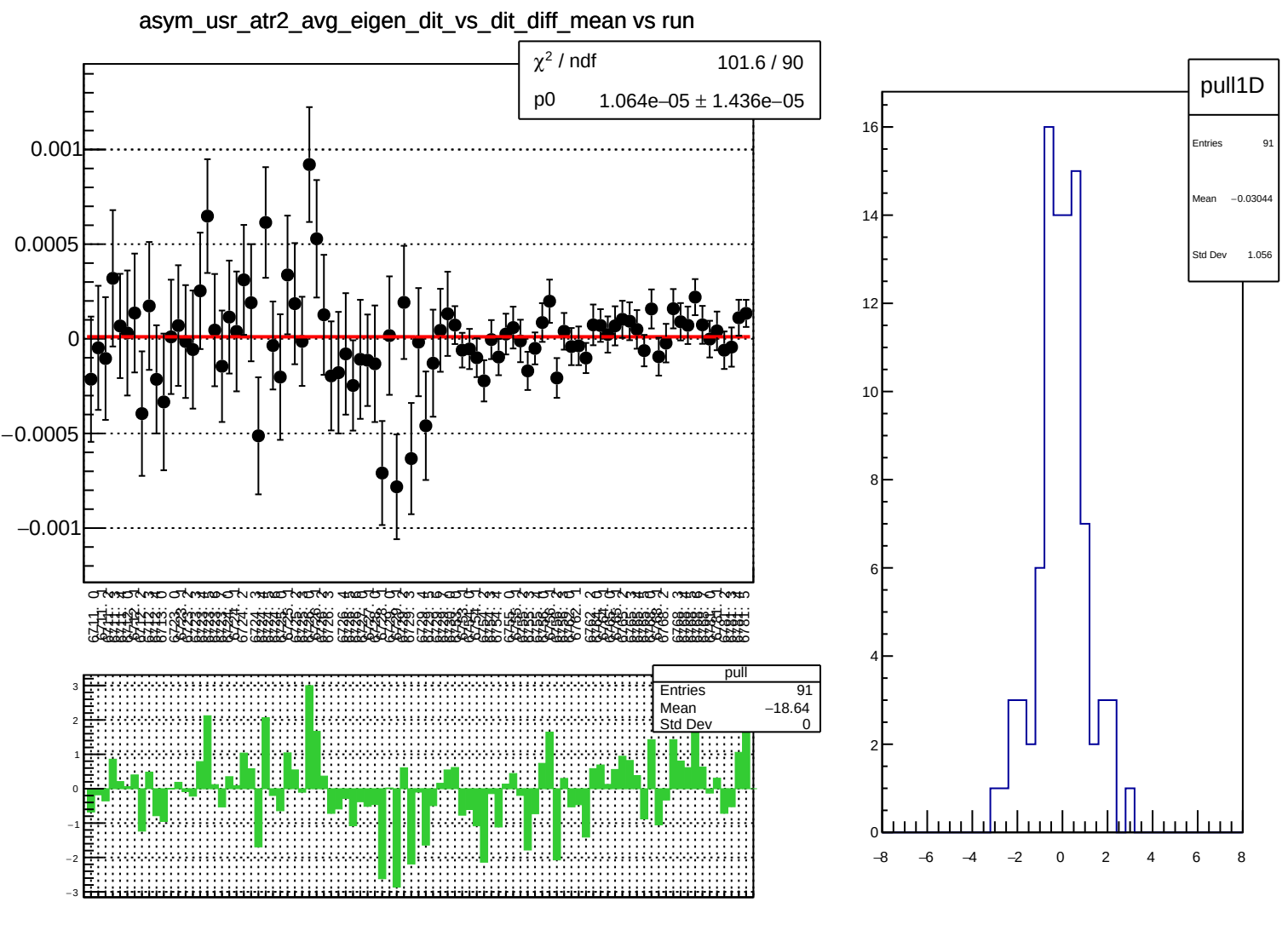

pull1D
Entries 91
Mean −0.03299
Std Dev 0.948

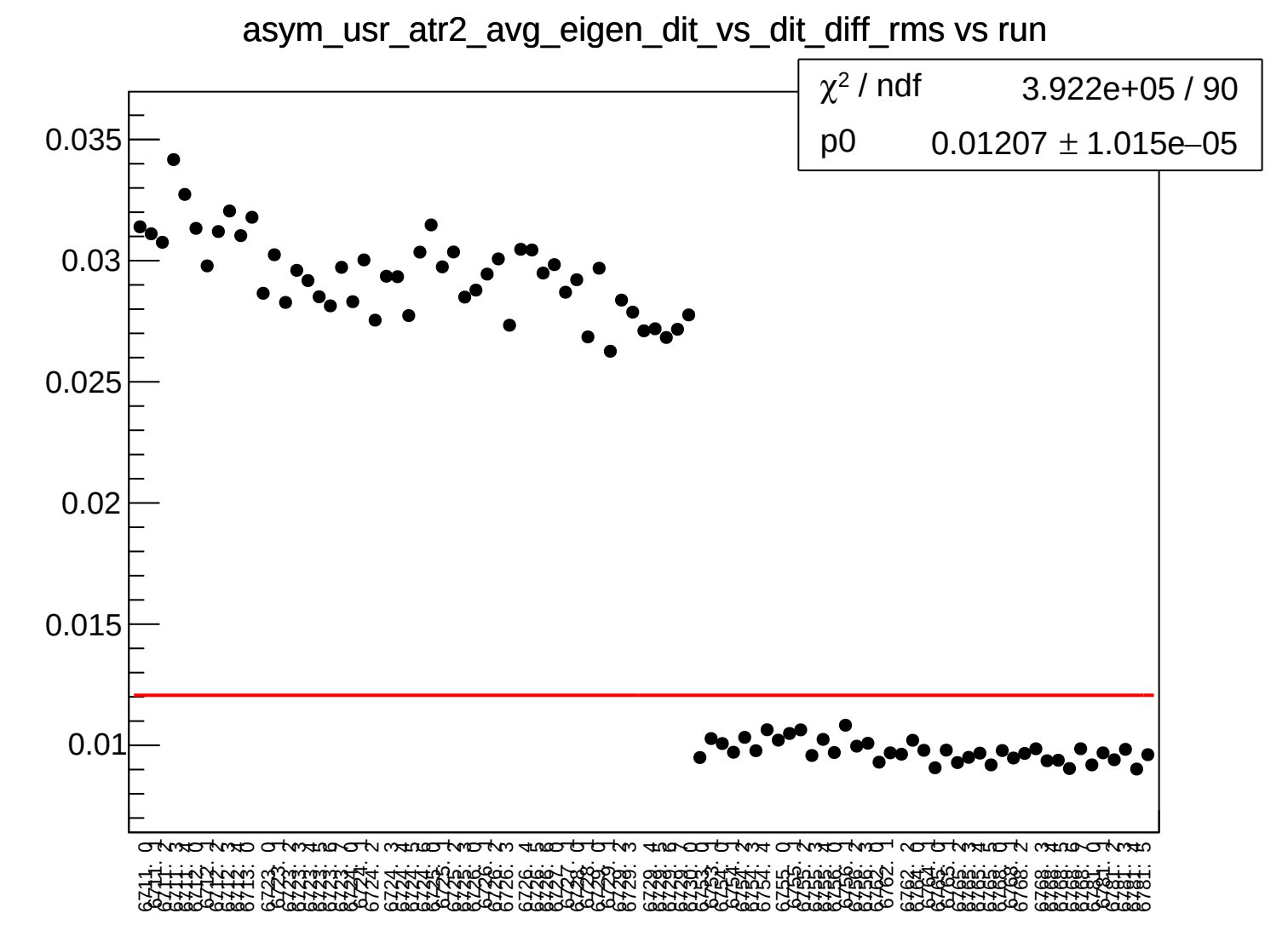

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.853e+04 / 90
p0 324.2 ± 0.2454
500
450
400
350
300
250

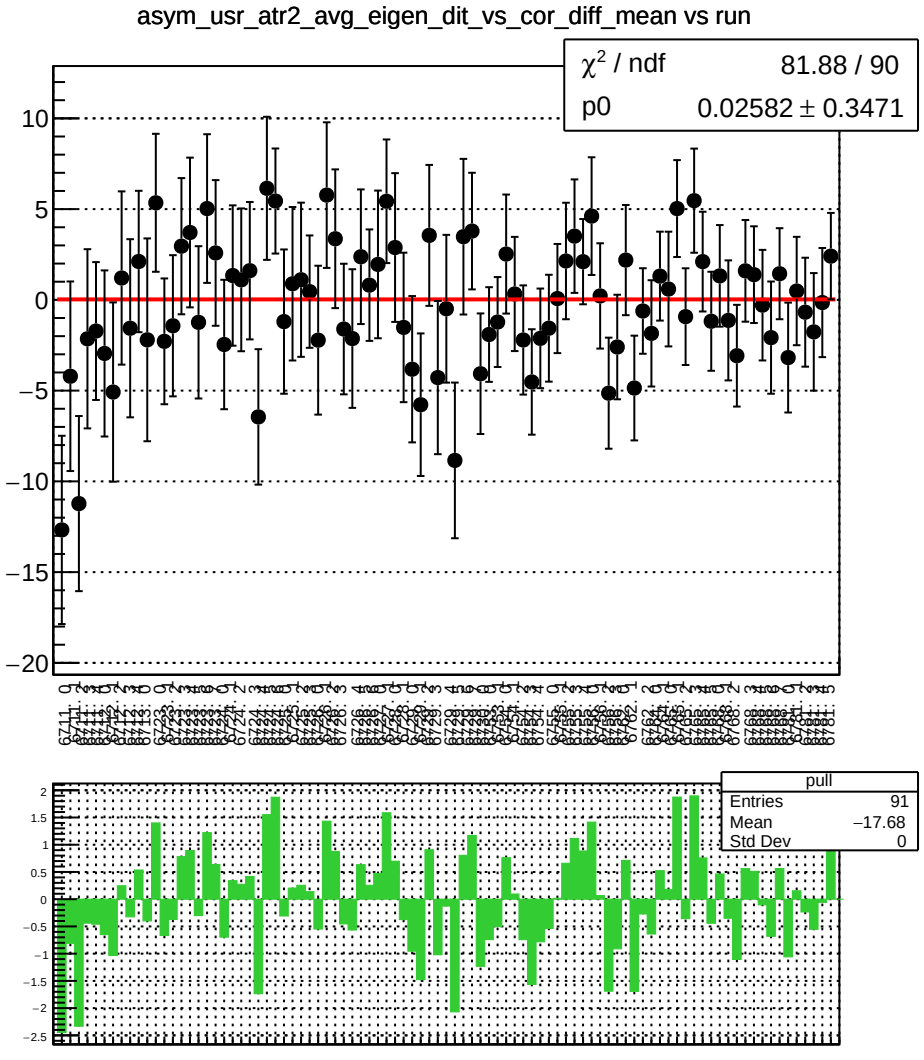

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.88 / 90
p0 0.02582 ± 0.347
pull
Entries 91
Mean −17.68
Std Dev 0

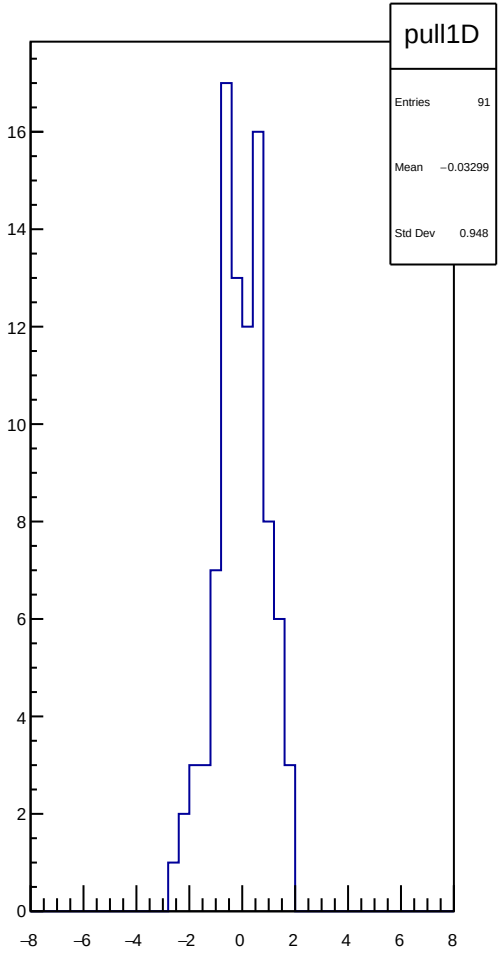

pull1D
Entries 91
Mean −0.03299
Std Dev 0.948

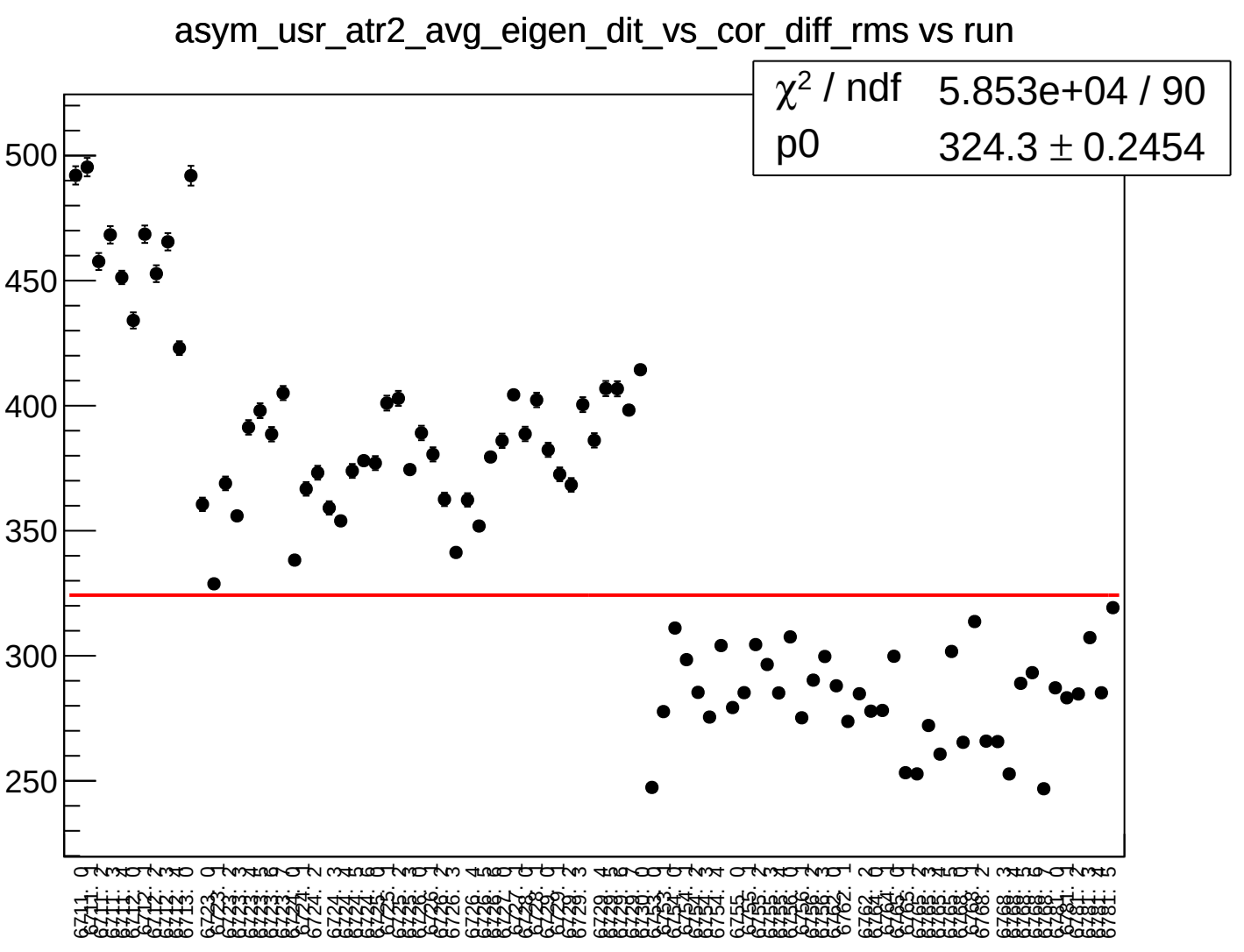

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.853e+04 / 90
p0 324.2 ± 0.2454
500
450
400
350
300
250

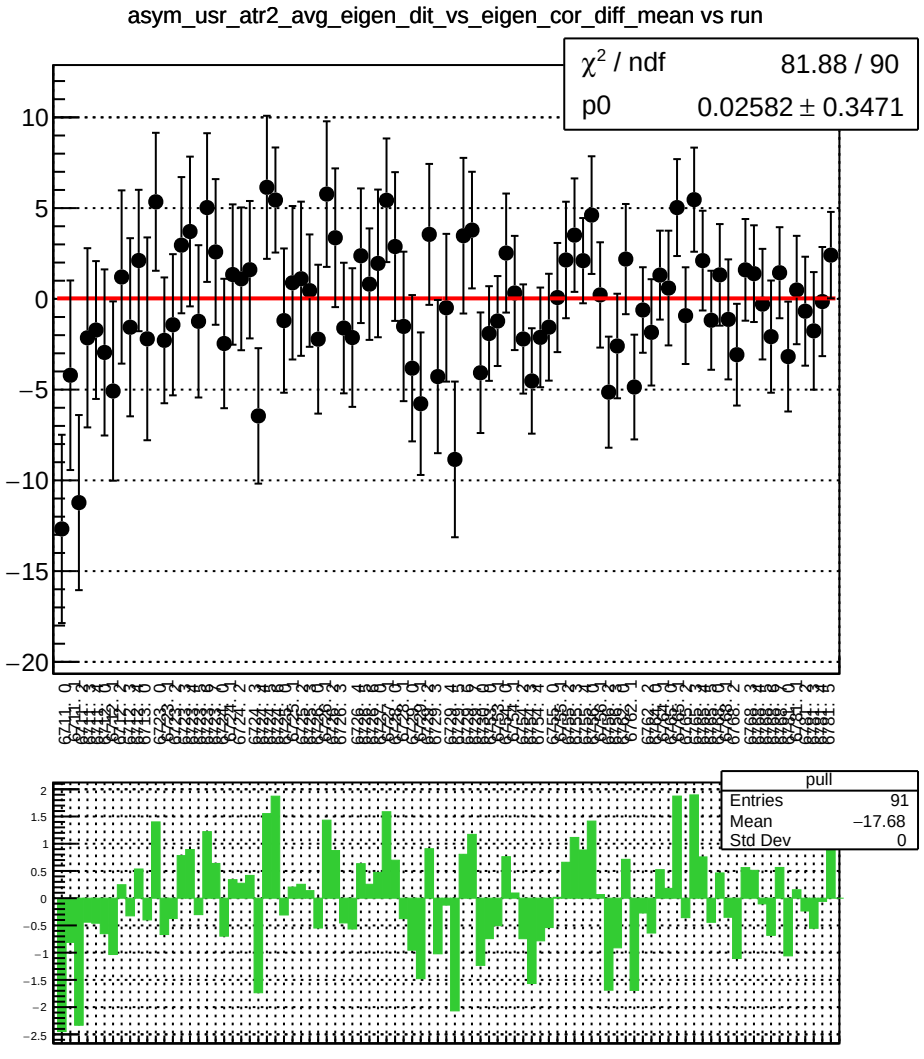

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 101.6 / 90
p0 1.064e−05 ± 1.436e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean −18.64
Std Dev 0
pull1D
Entries 91
Mean −0.03044
Std Dev 1.056

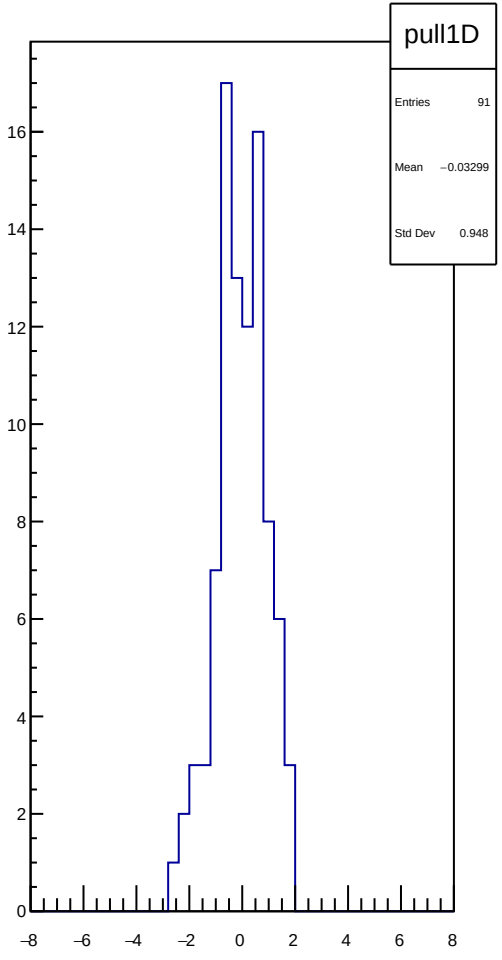

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.922e+05 / 90
p0 0.01207 ± 1.015e−05
0.035
0.03
0.025
0.02
0.015
0.01

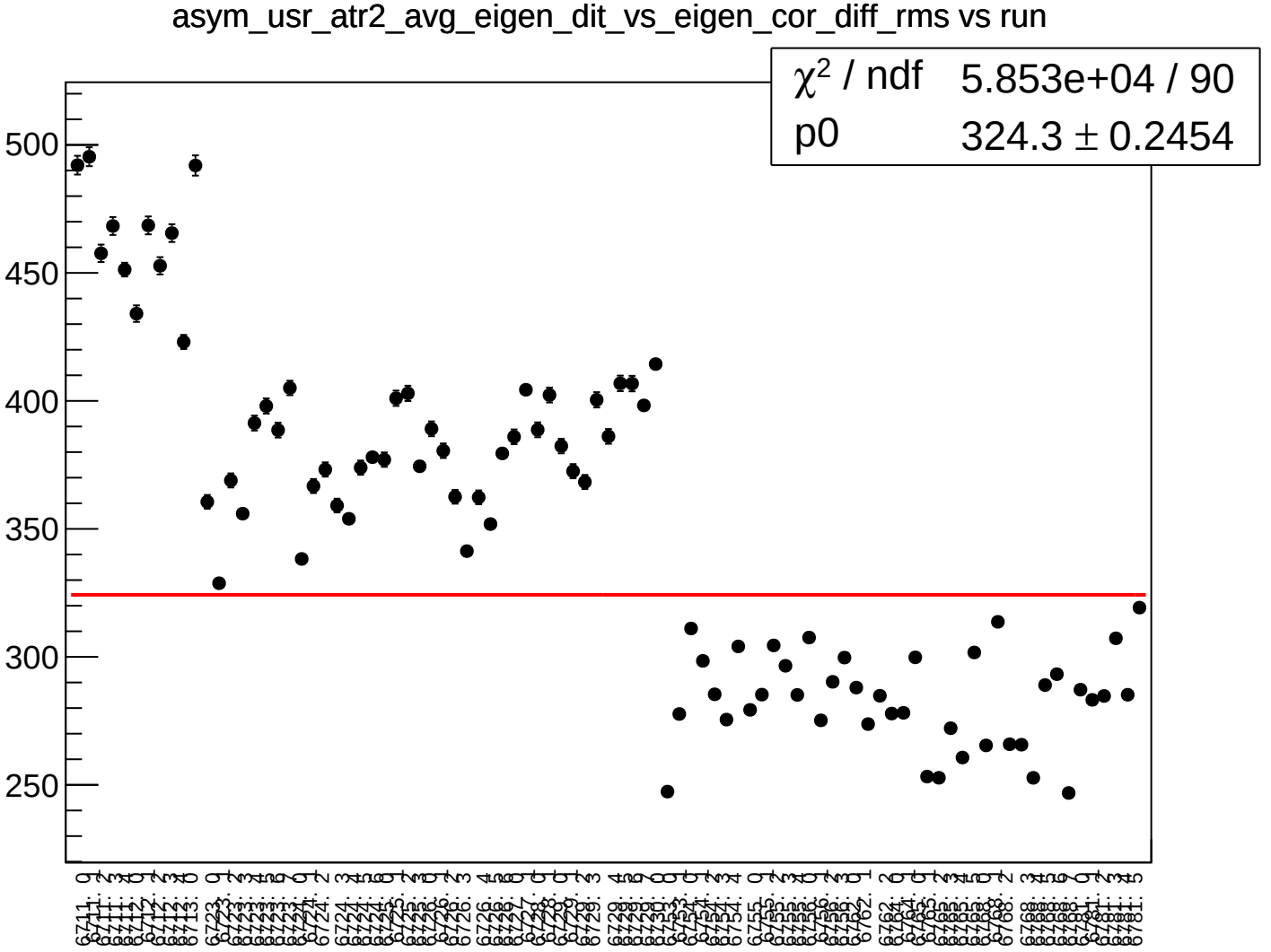

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.88 / 90
p0 0.02582 ± 0.3471
pull
Entries 91
Mean −17.68
Std Dev 0

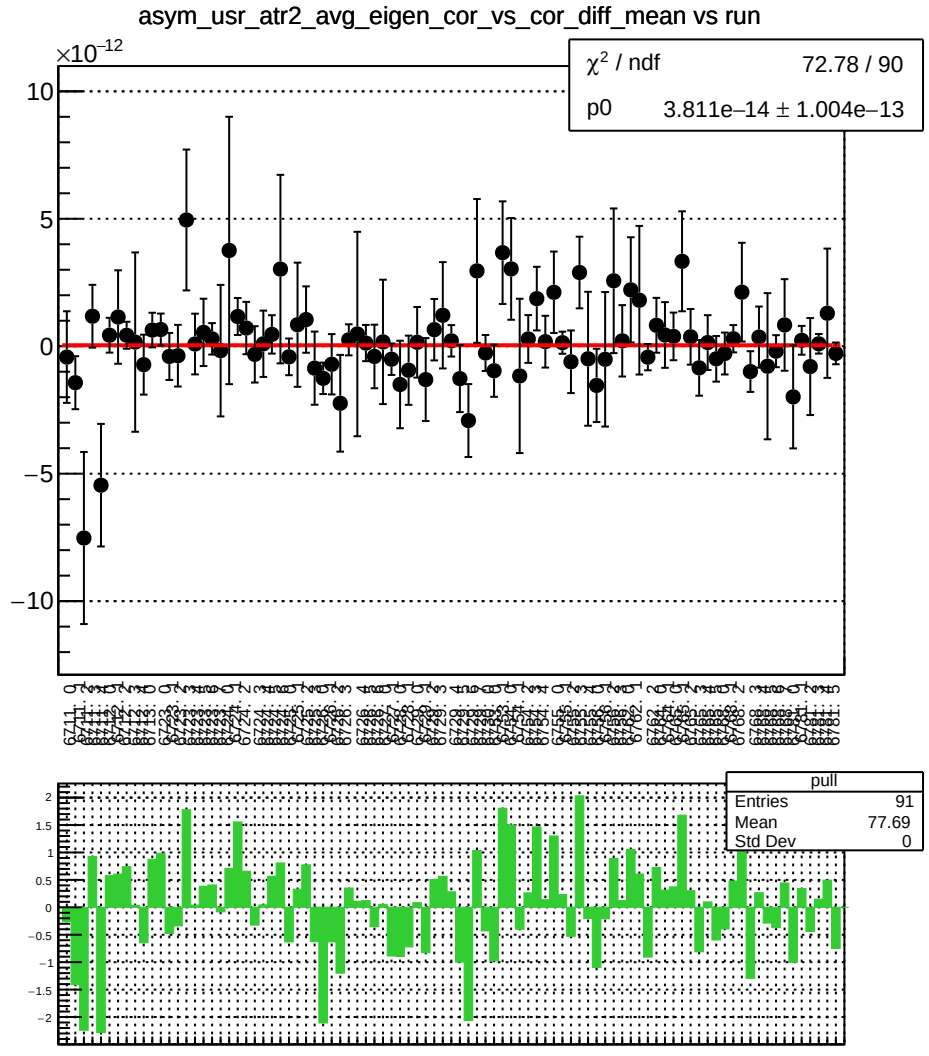

pull1D
Entries 91
Mean −0.03299
Std Dev 0.948

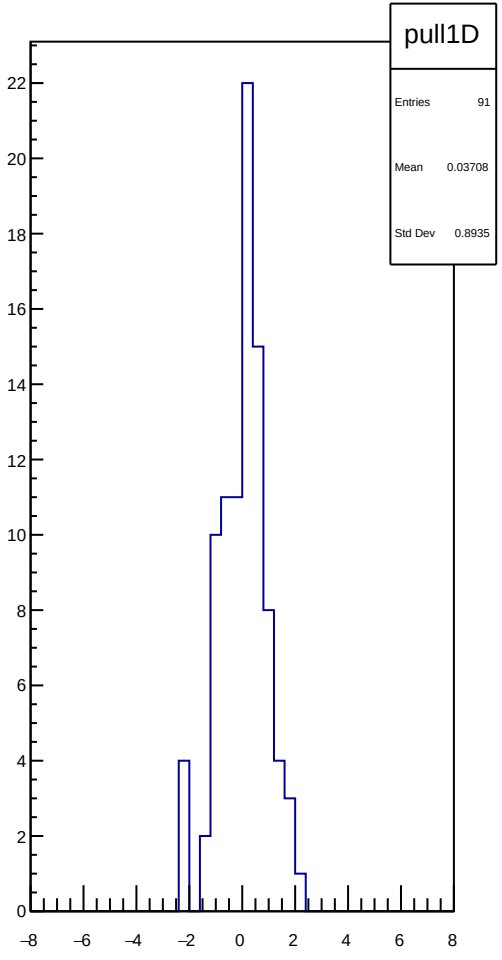

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.853e+04 / 90
p0 324.3 ± 0.2454
500
450
400
350
300
250

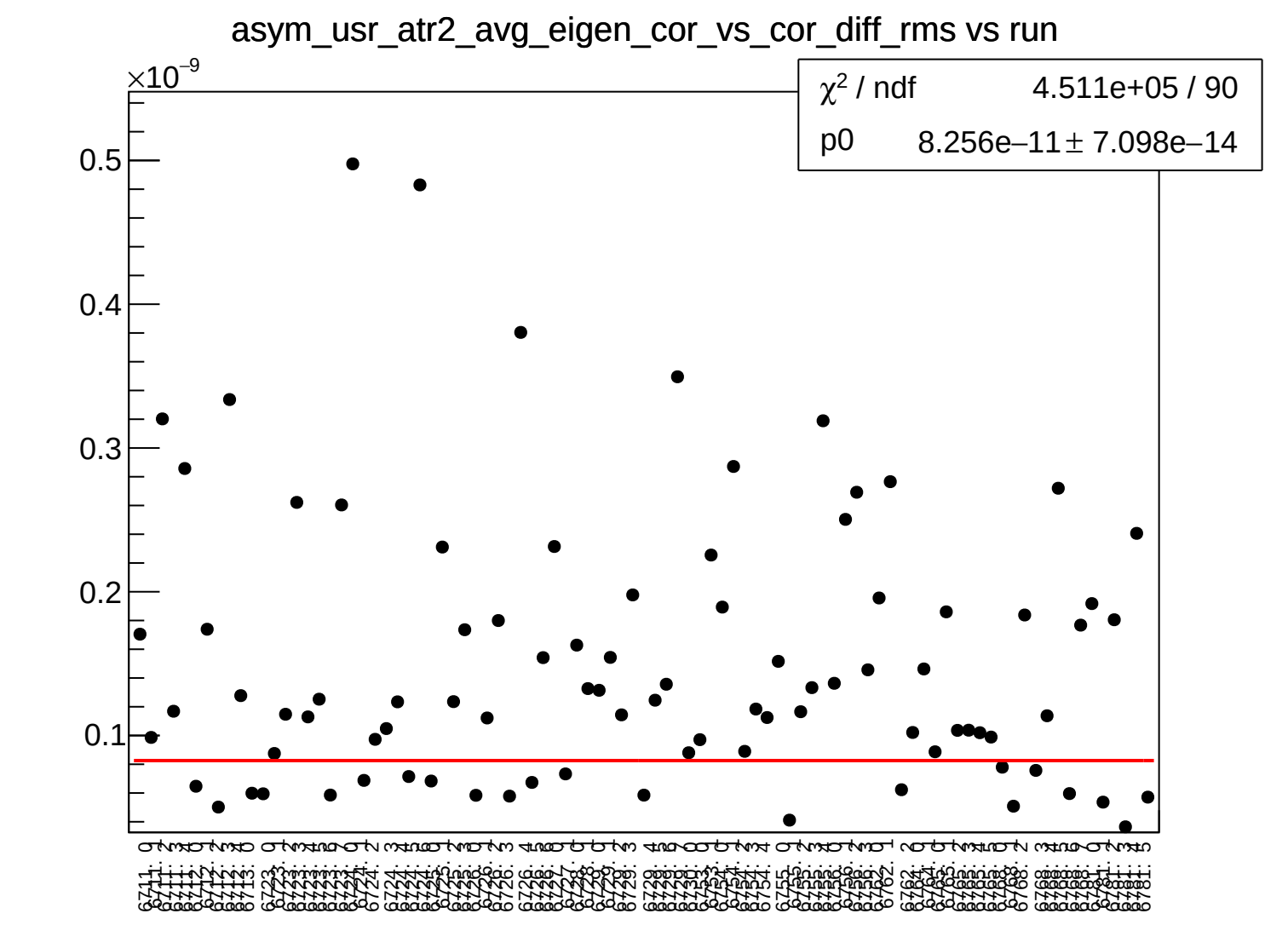

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.88 / 90
p0 0.02582 ± 0.3471
pull
Entries 91
Mean −17.68
Std Dev 0

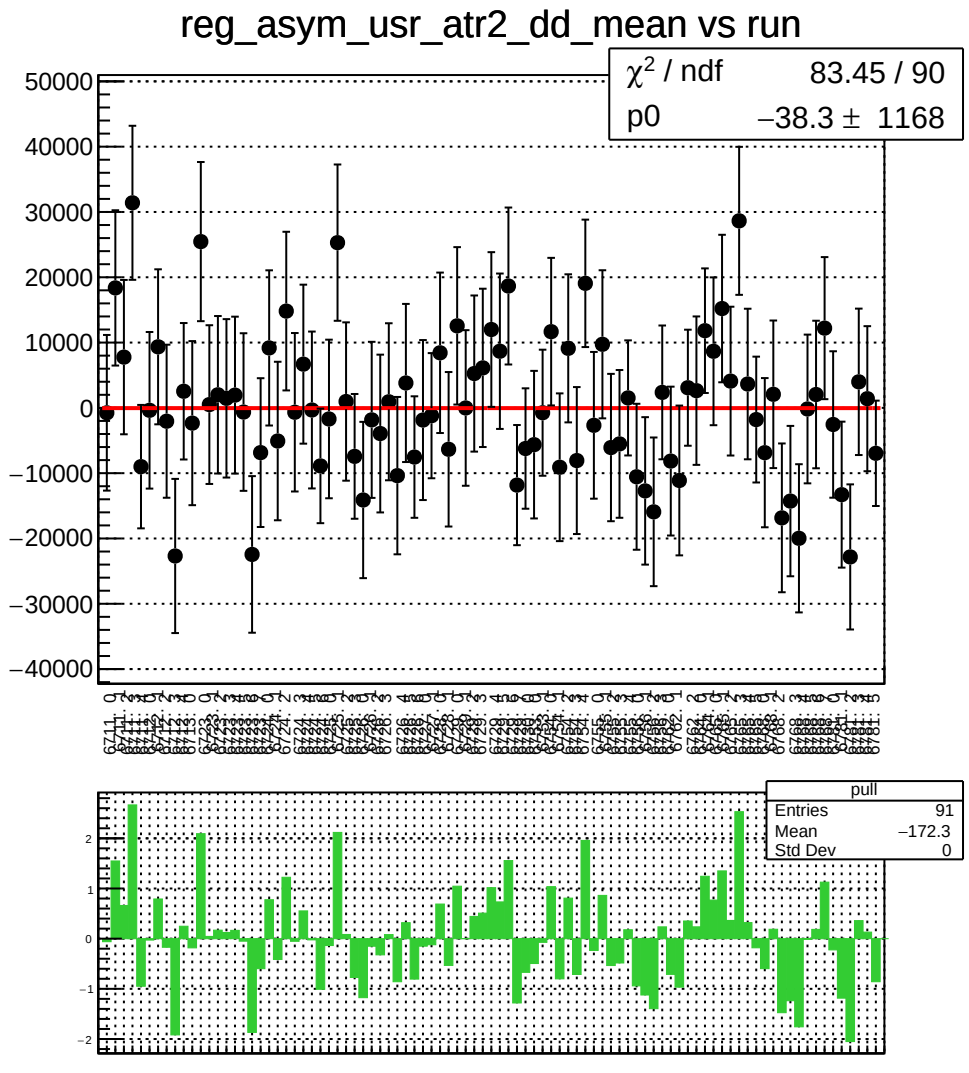

pull1D
Entries 91
Mean −0.03299
Std Dev 0.948

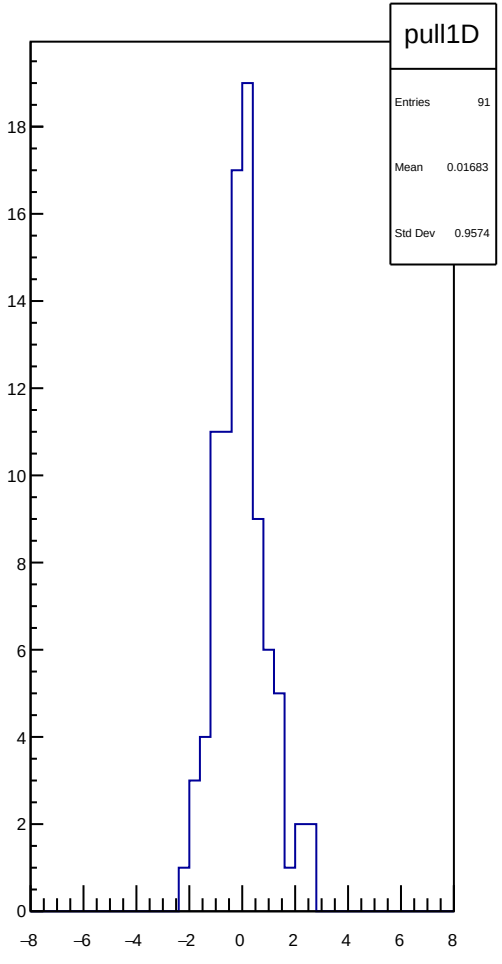

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.853e+04 / 90
p0 324.3 ± 0.2454
500
450
400
350
300
250

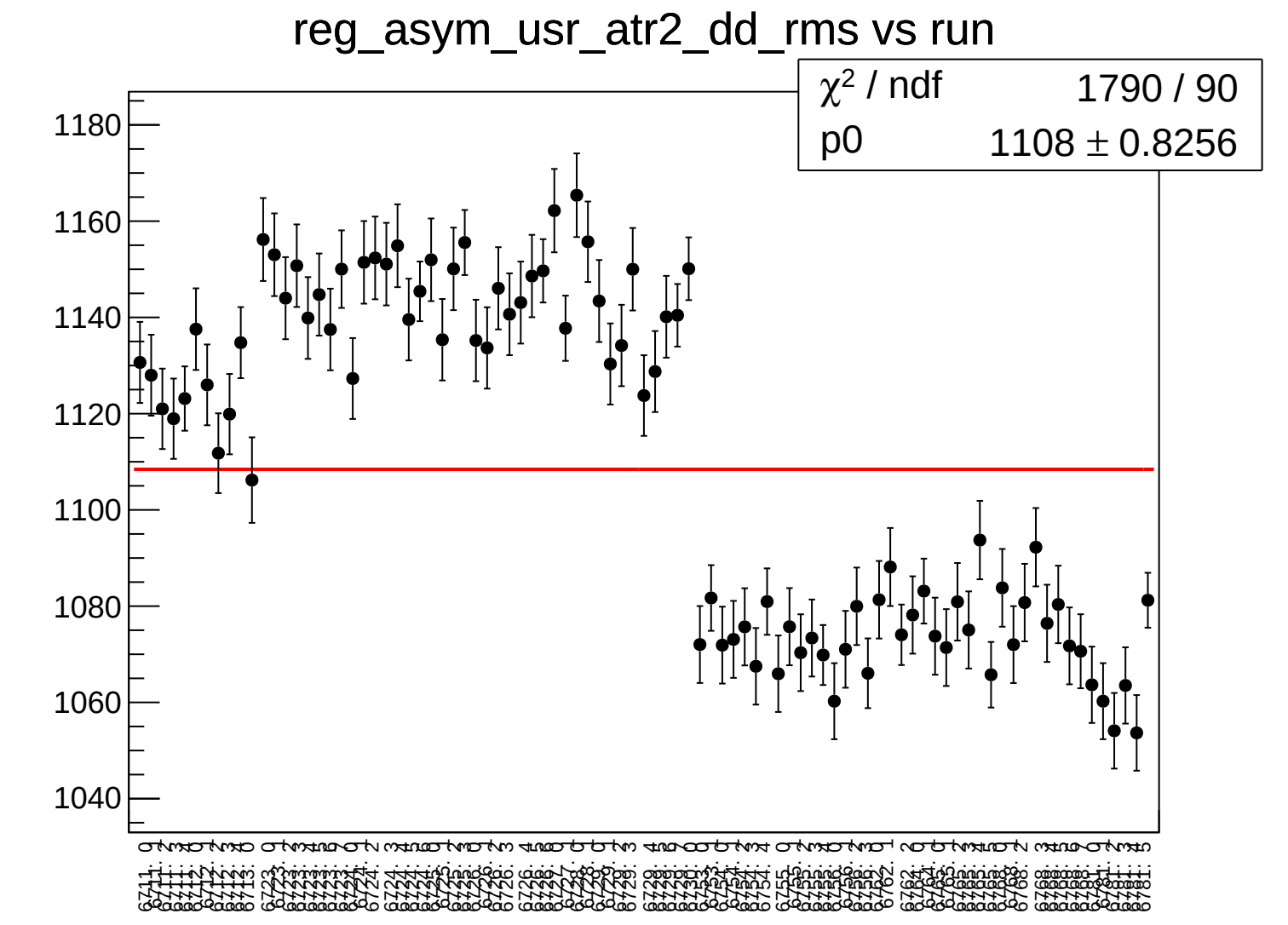

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.78 / 90
p0 3.811e−14 ± 1.004e−13
pull
Entries 91
Mean 77.69
Std Dev 0

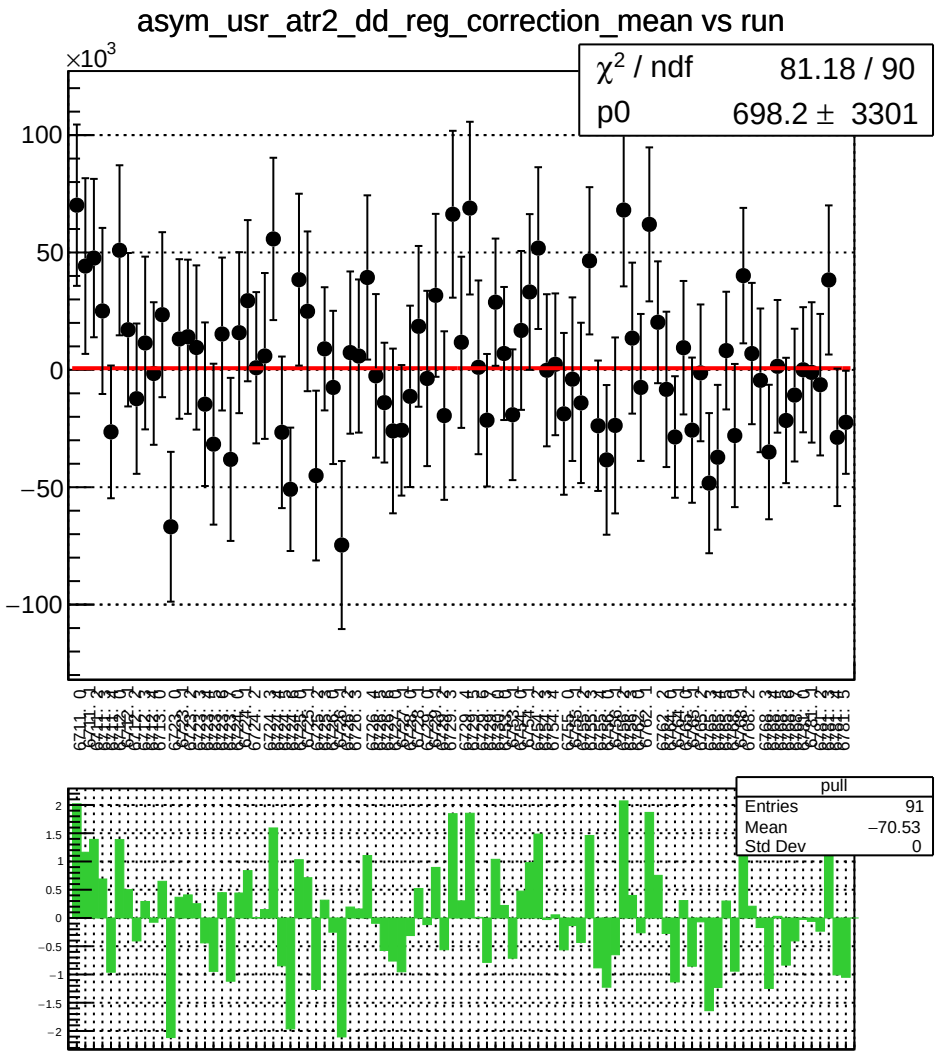

pull1D
Entries 91
Mean 0.03708
Std Dev 0.8935

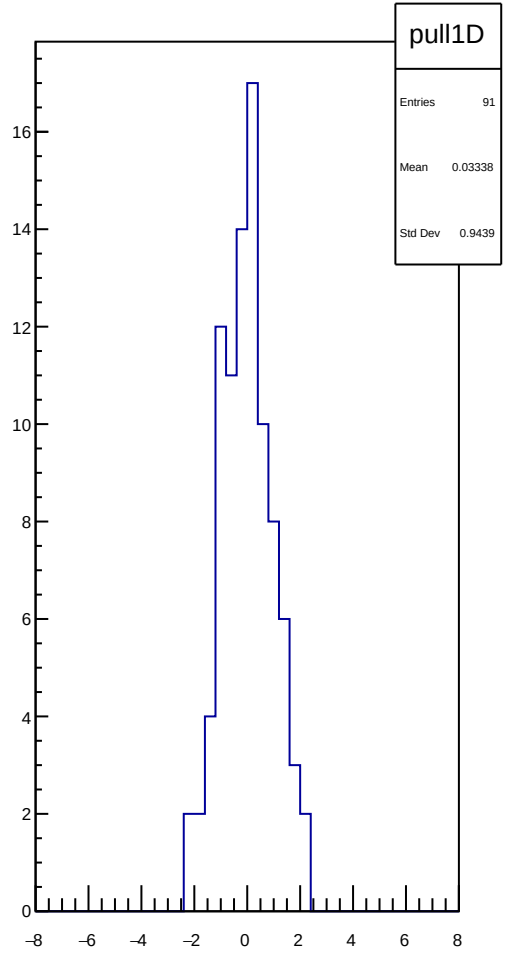

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.511e+05 / 90
p0 8.256e−11 ± 7.098e−14
0.5
0.4
0.3
0.2
0.1

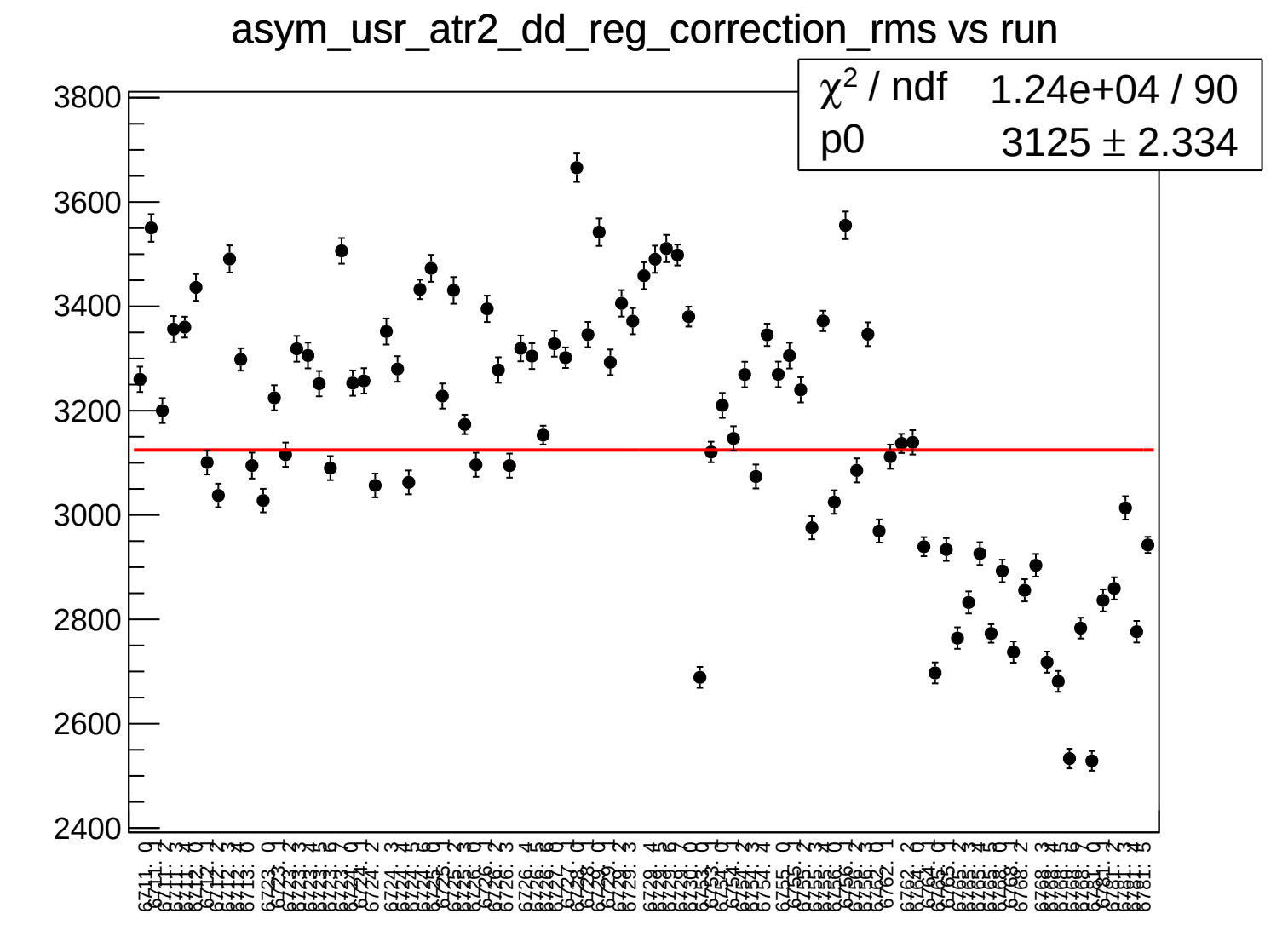

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 83.45 / 90
p0 −38.3 ± 1168
pull
Entries 91
Mean −172.3
Std Dev 0

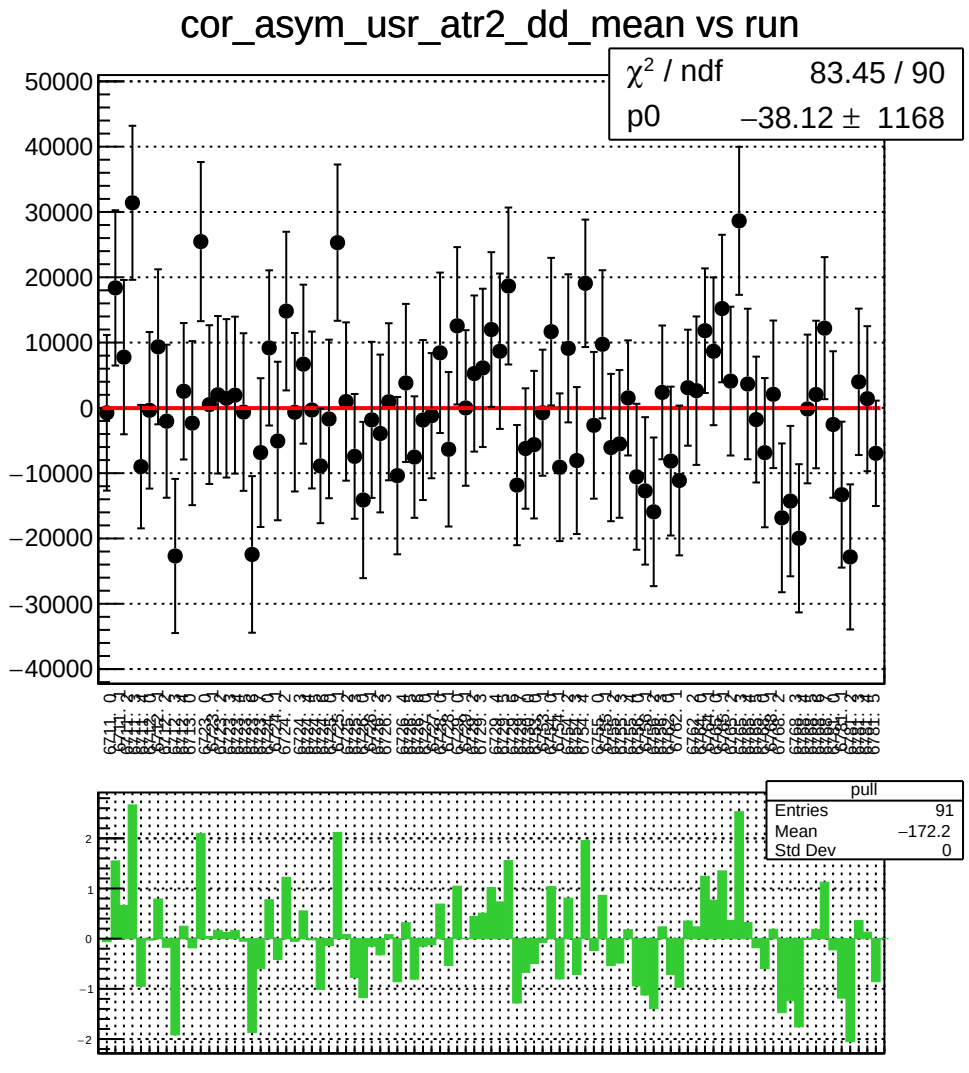

pull1D
Entries 91
Mean 0.01683
Std Dev 0.9574

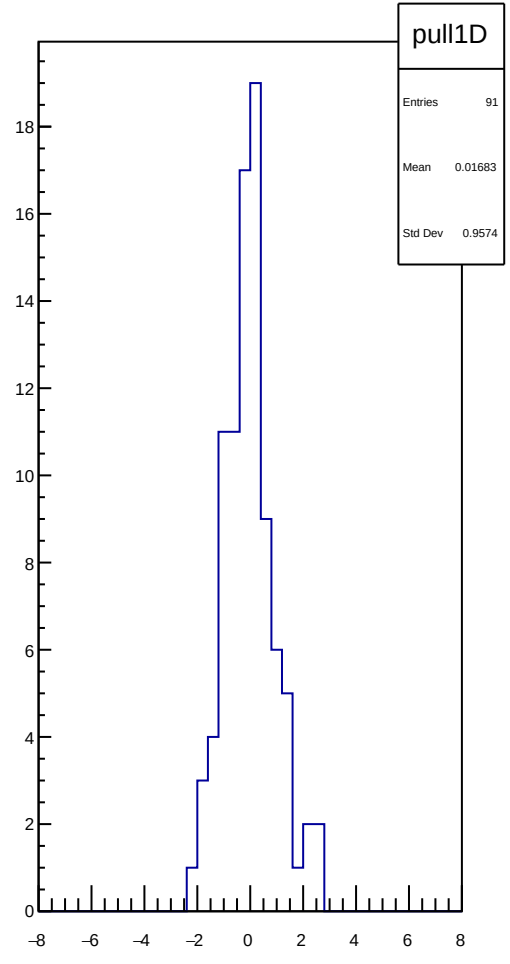

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 1790 / 90
p0 1108 ± 0.8256
1180
1160
1140
1120
1100
1080
1060
1040

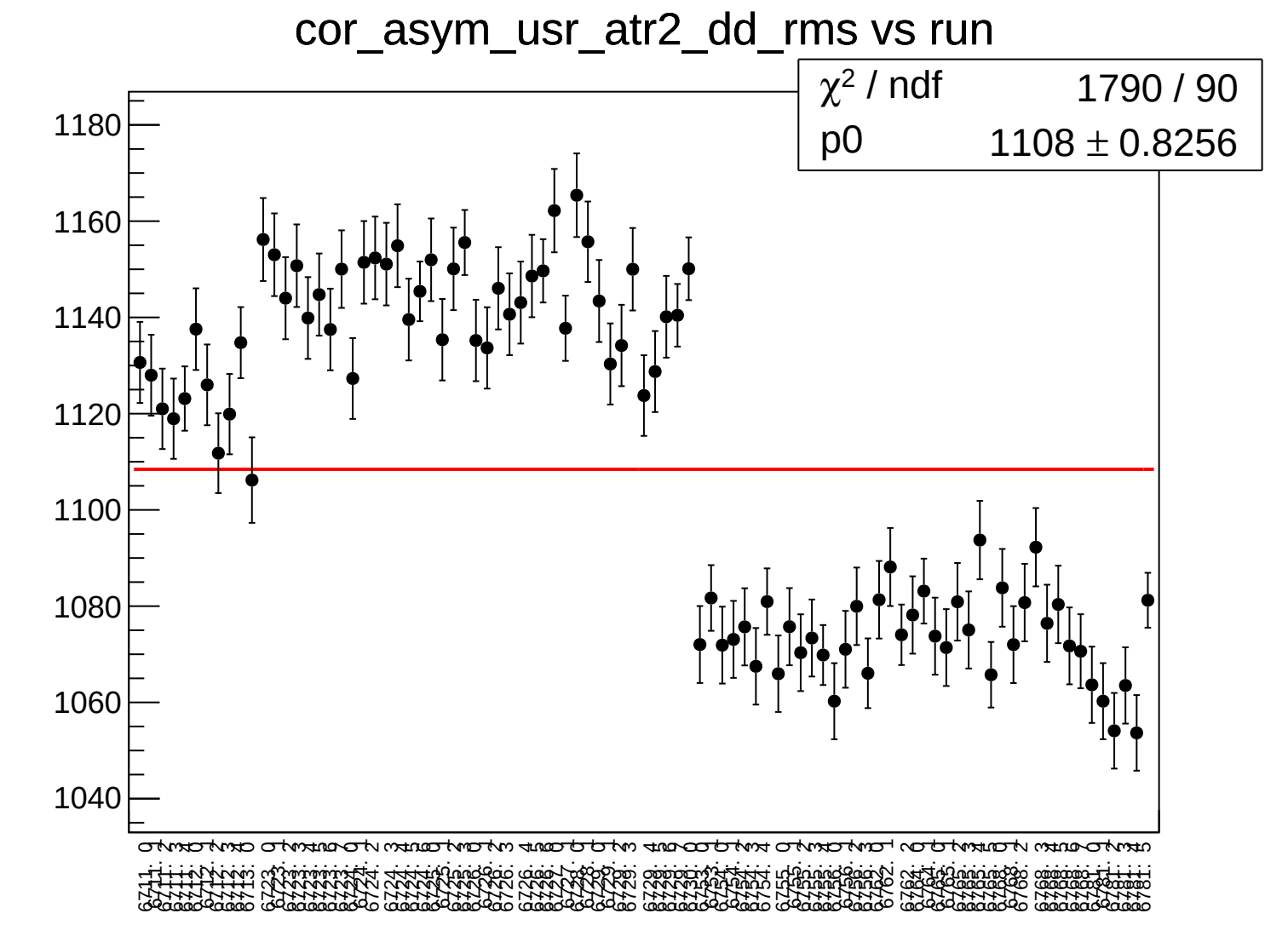

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 81.18 / 90
p0 698.2 ± 3301
100
50
0
−50
−100
pull
Entries 91
Mean −70.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

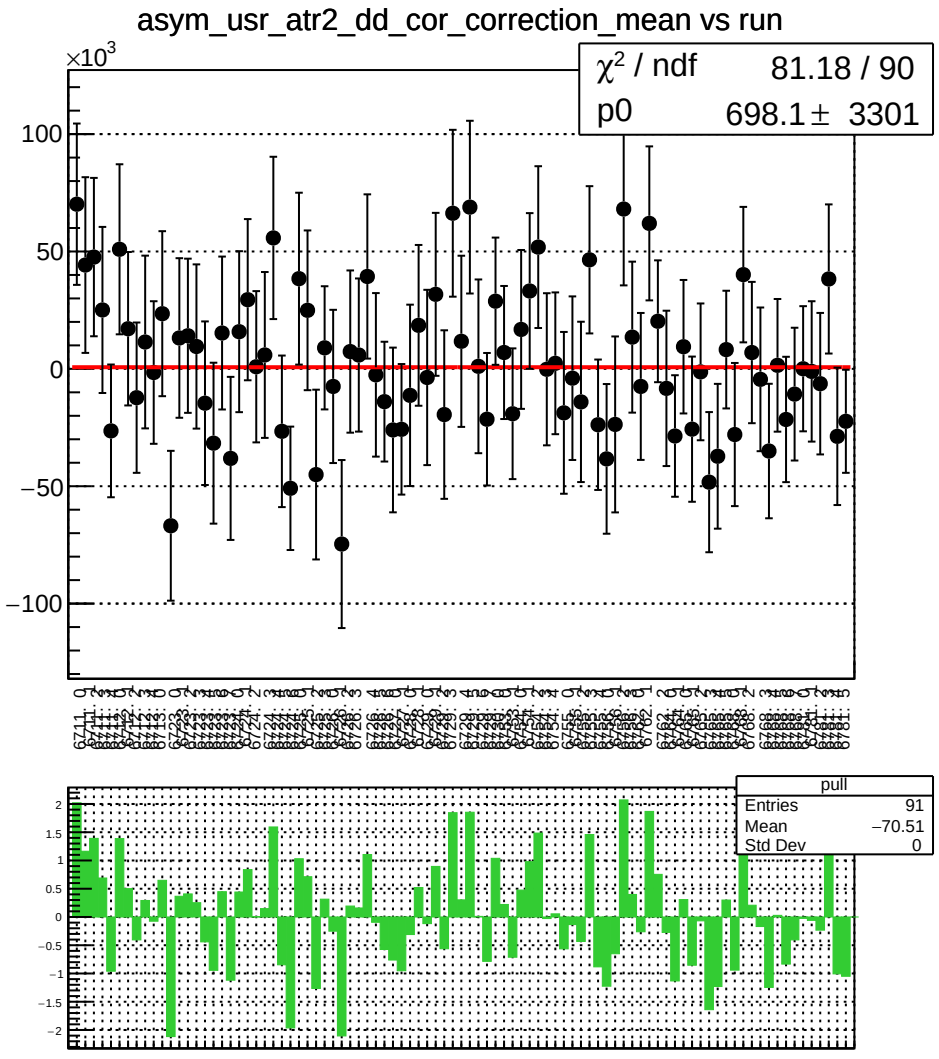

pull1D
Entries 91
Mean 0.03338
Std Dev 0.9439
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

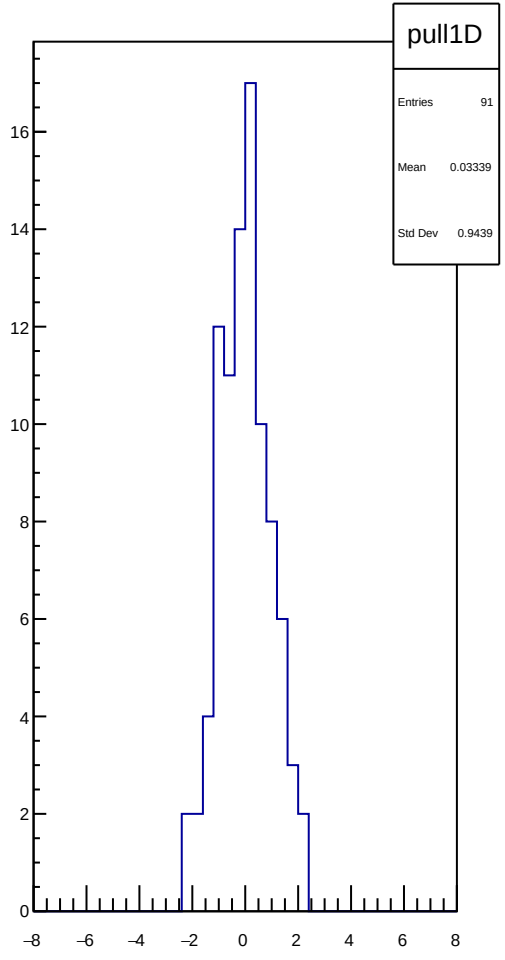

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 1.24e+04 / 90
p0 3125 ± 2.334
3800
3600
3400
3200
3000
2800
2600
2400

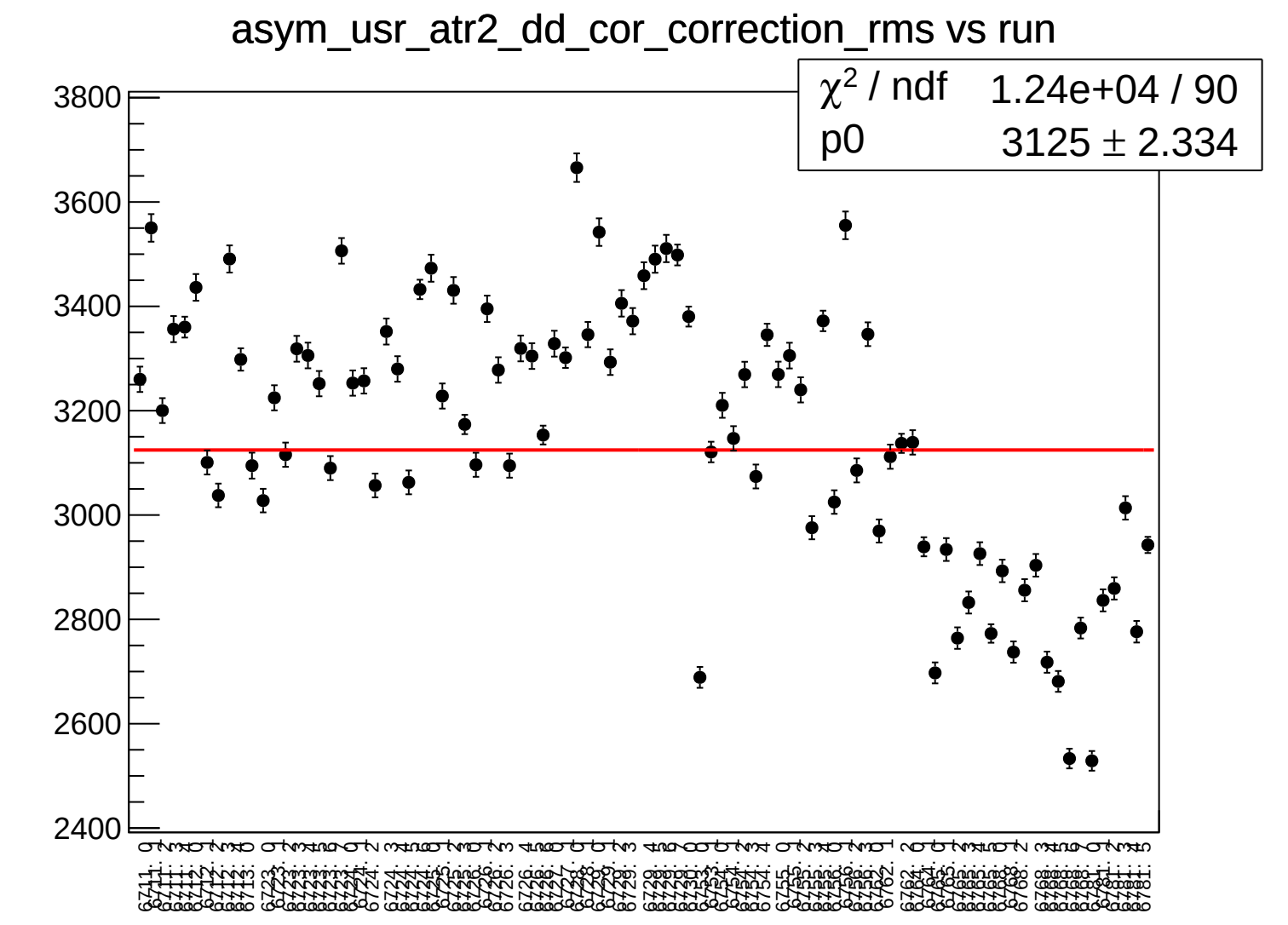

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 83.45 / 90
p0 −38.12 ± 1168
pull
Entries 91
Mean −172.2
Std Dev 0

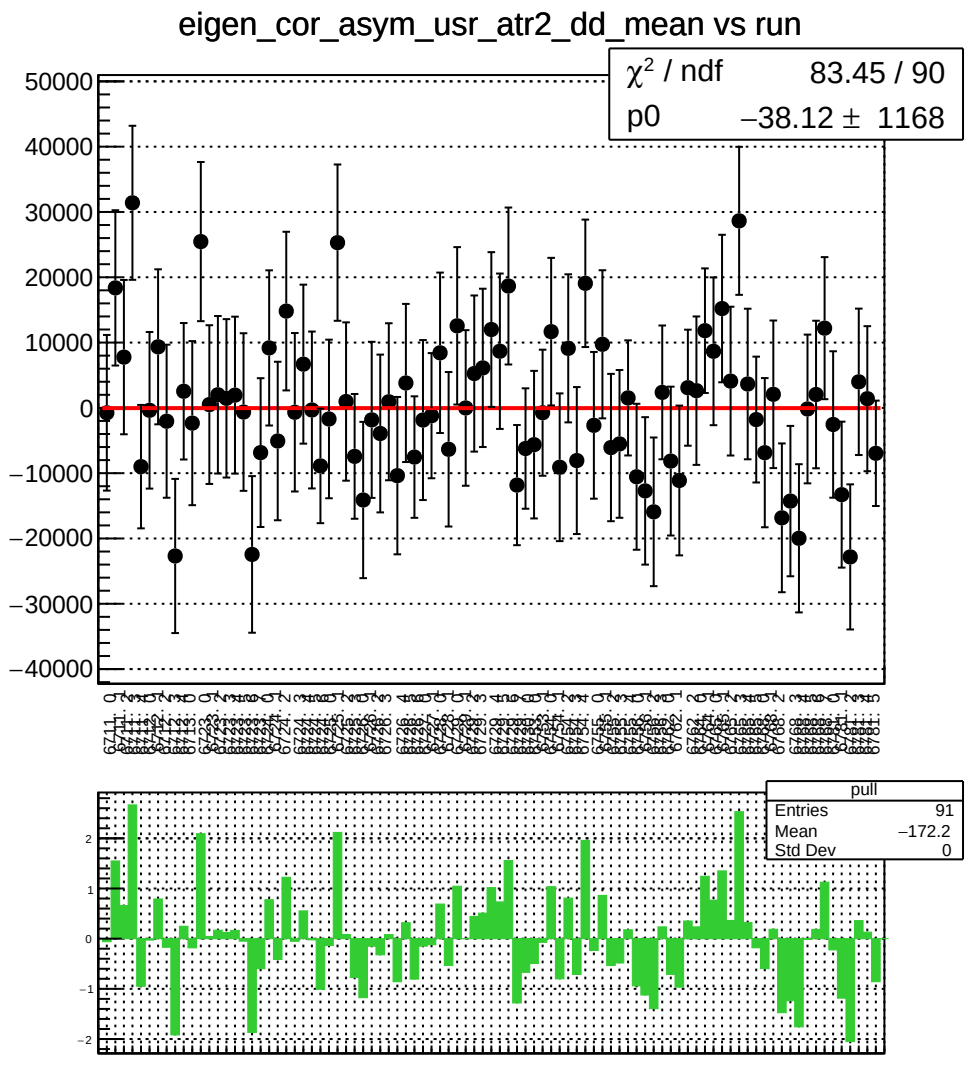

pull1D
Entries 91
Mean 0.01683
Std Dev 0.9574

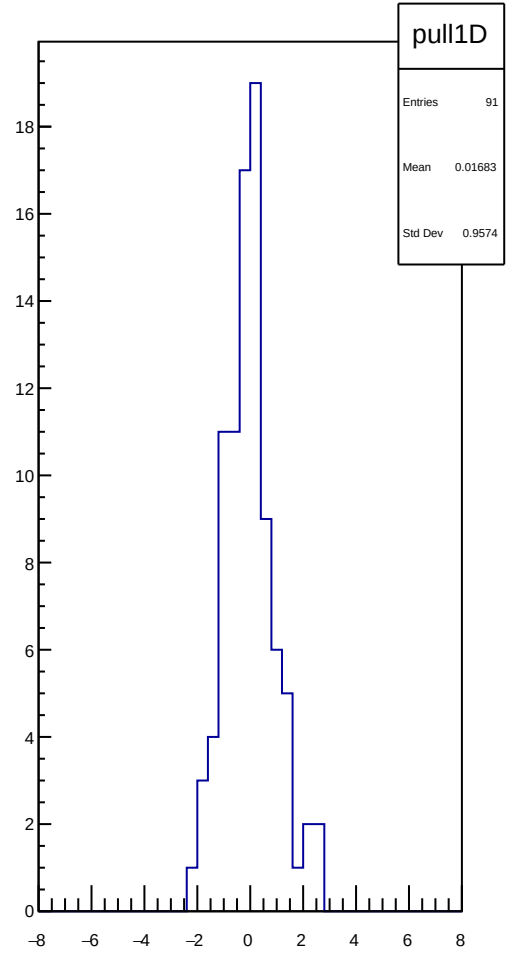

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 1790 / 90
p0 1108 ± 0.8256
1180
1160
1140
1120
1100
1080
1060
1040

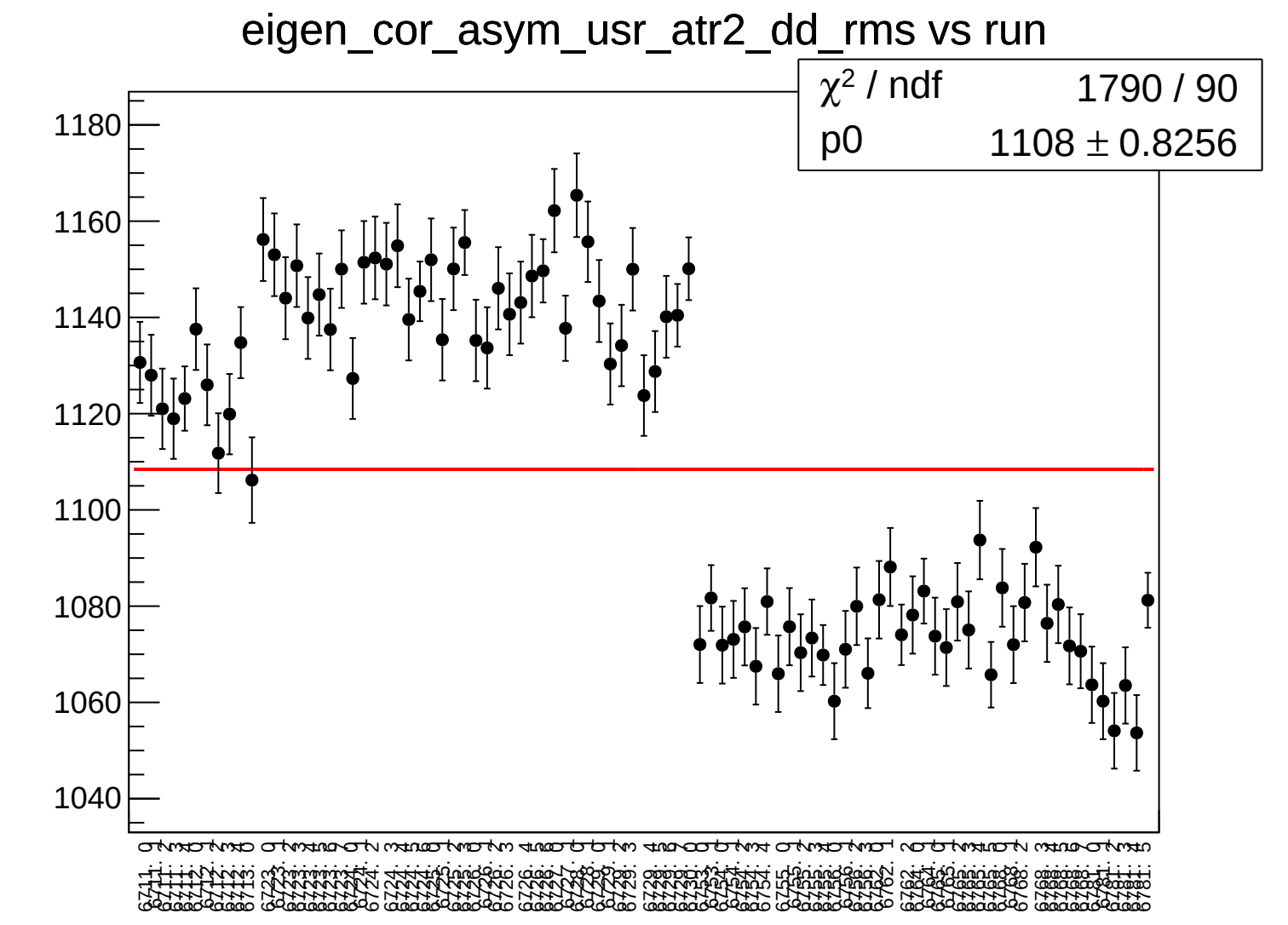

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 81.18 / 90
p0 698.1 ± 3301
100
50
0
−50
−100
pull
Entries 91
Mean −70.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

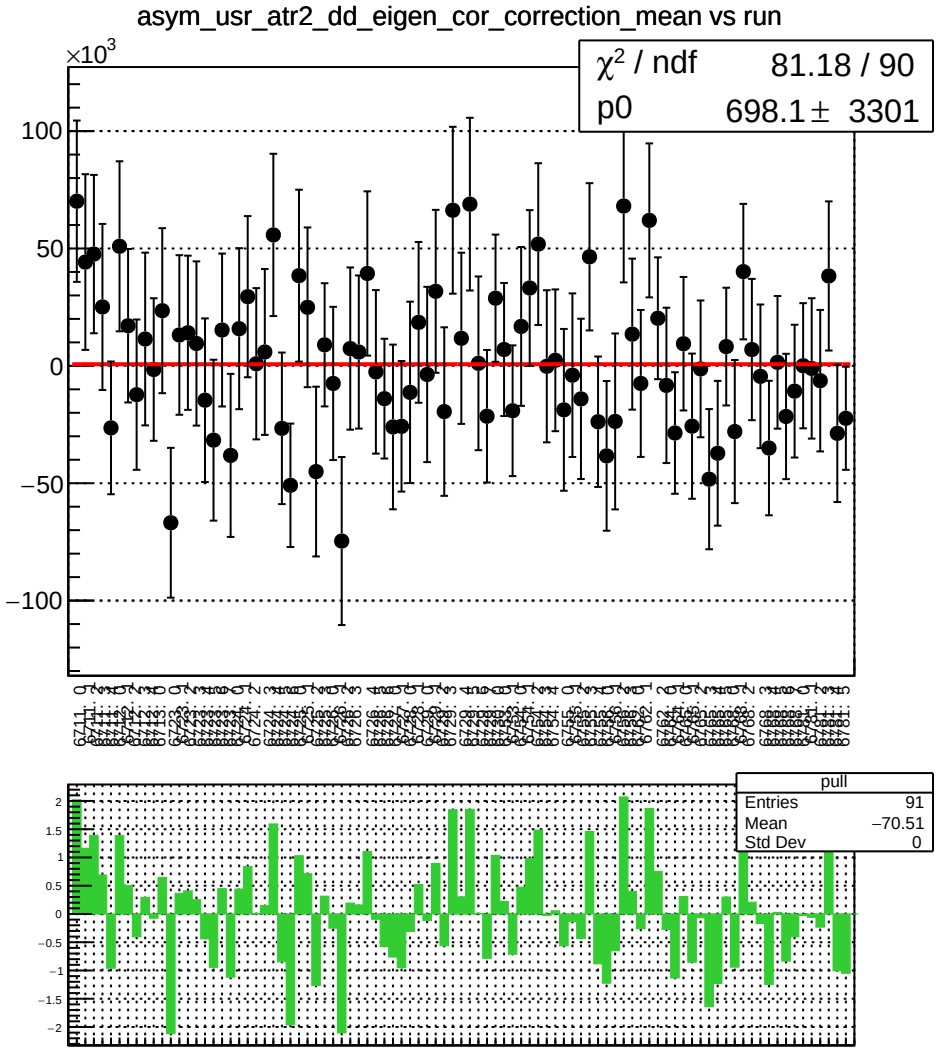

pull1D
Entries 91
Mean 0.03339
Std Dev 0.9439
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

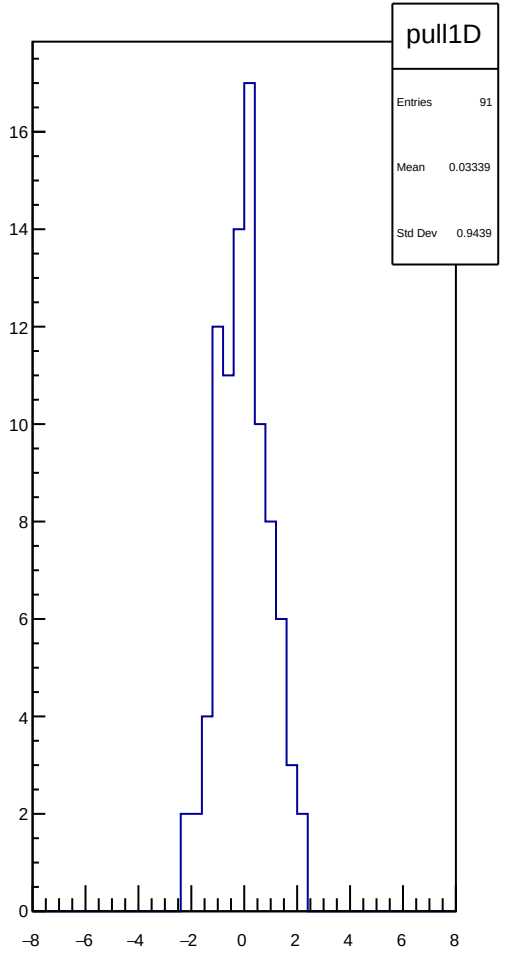

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 1.24e+04 / 90
p0 3125 ± 2.334
3800
3600
3400
3200
3000
2800
2600
2400

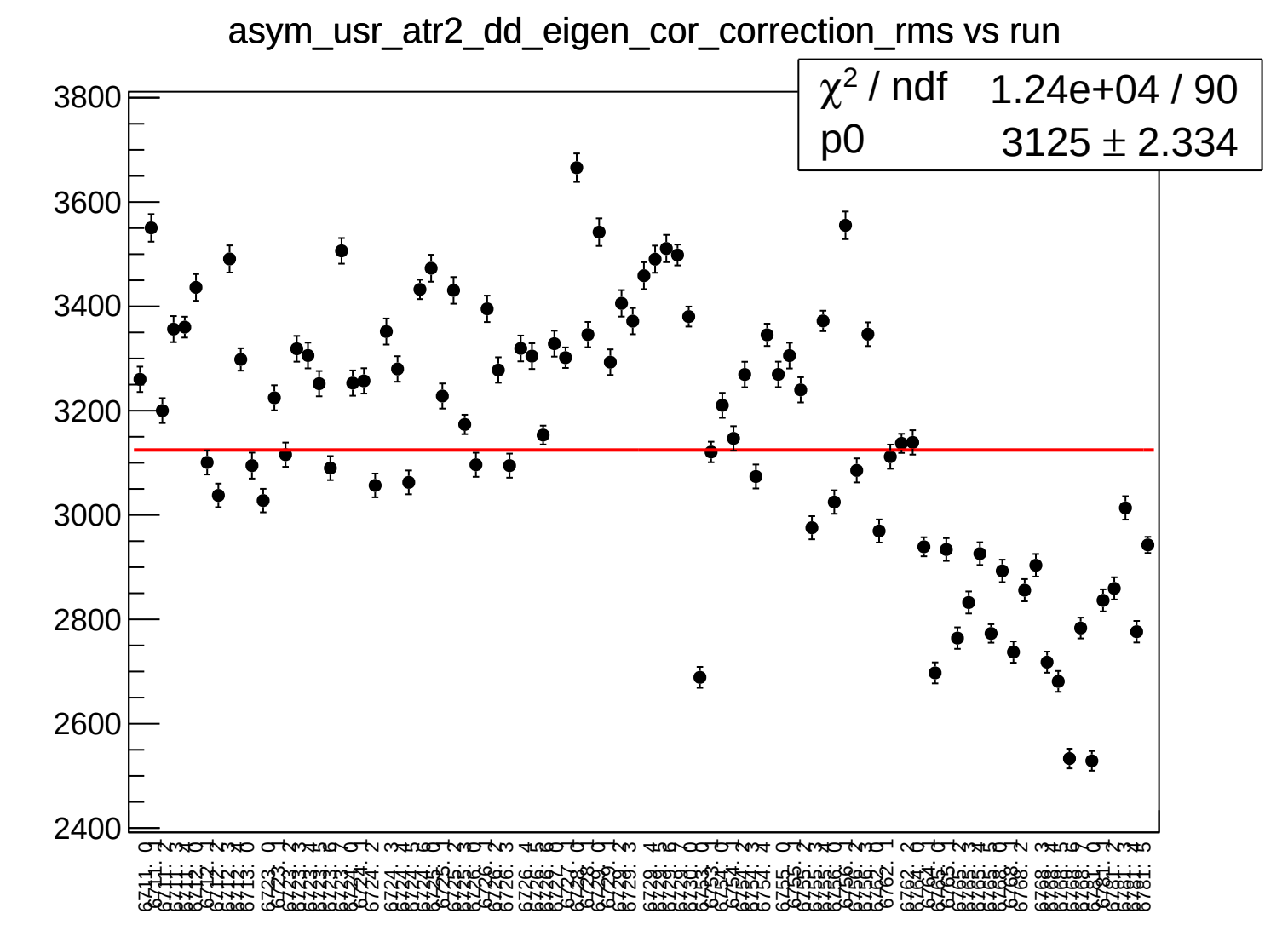

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 83.45 / 90
p0 −38.12 ± 1168
pull
Entries 91
Mean −172.2
Std Dev 0

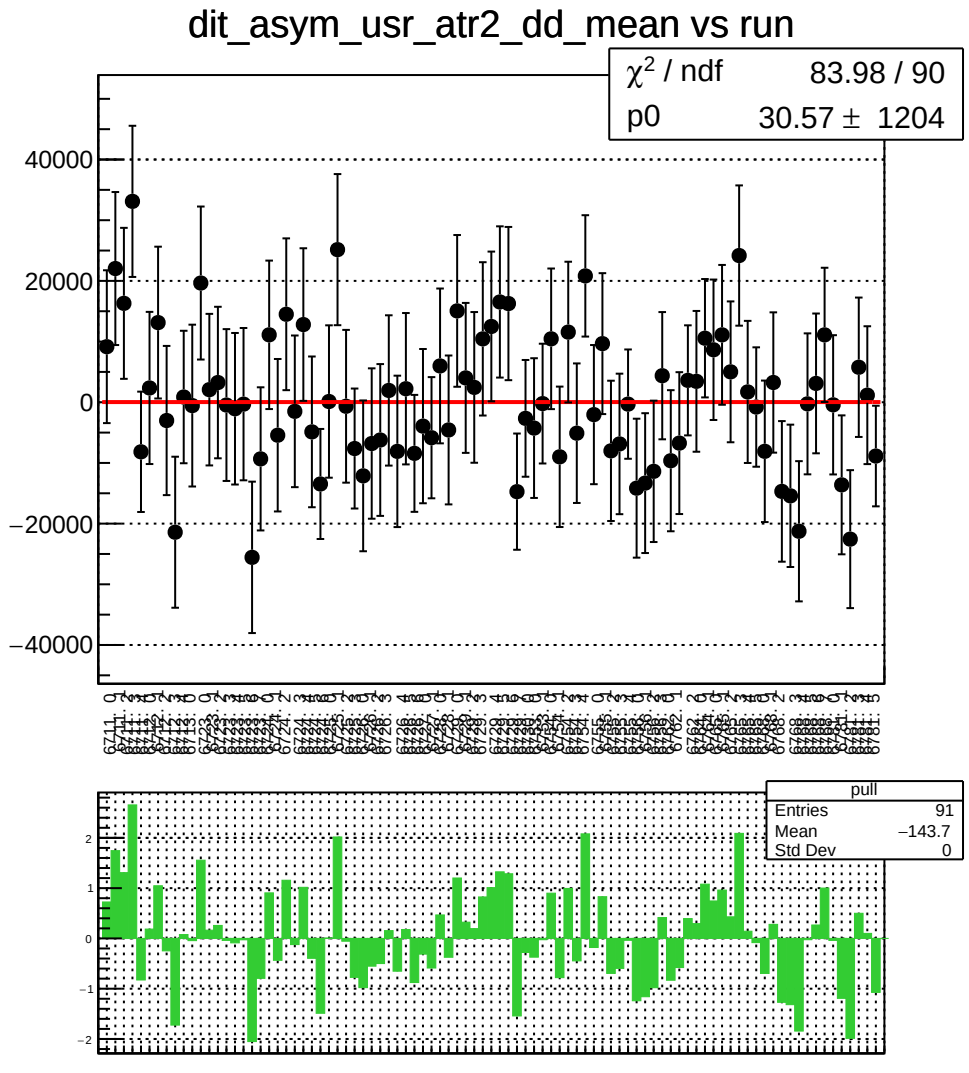

pull1D
Entries 91
Mean 0.01683
Std Dev 0.9574

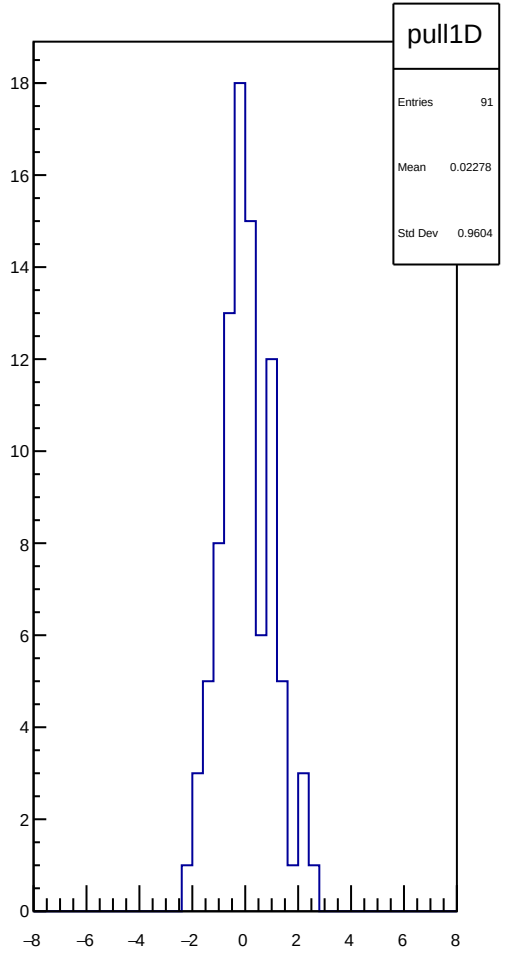

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 1790 / 90
p0 1108 ± 0.8256
1180
1160
1140
1120
1100
1080
1060
1040

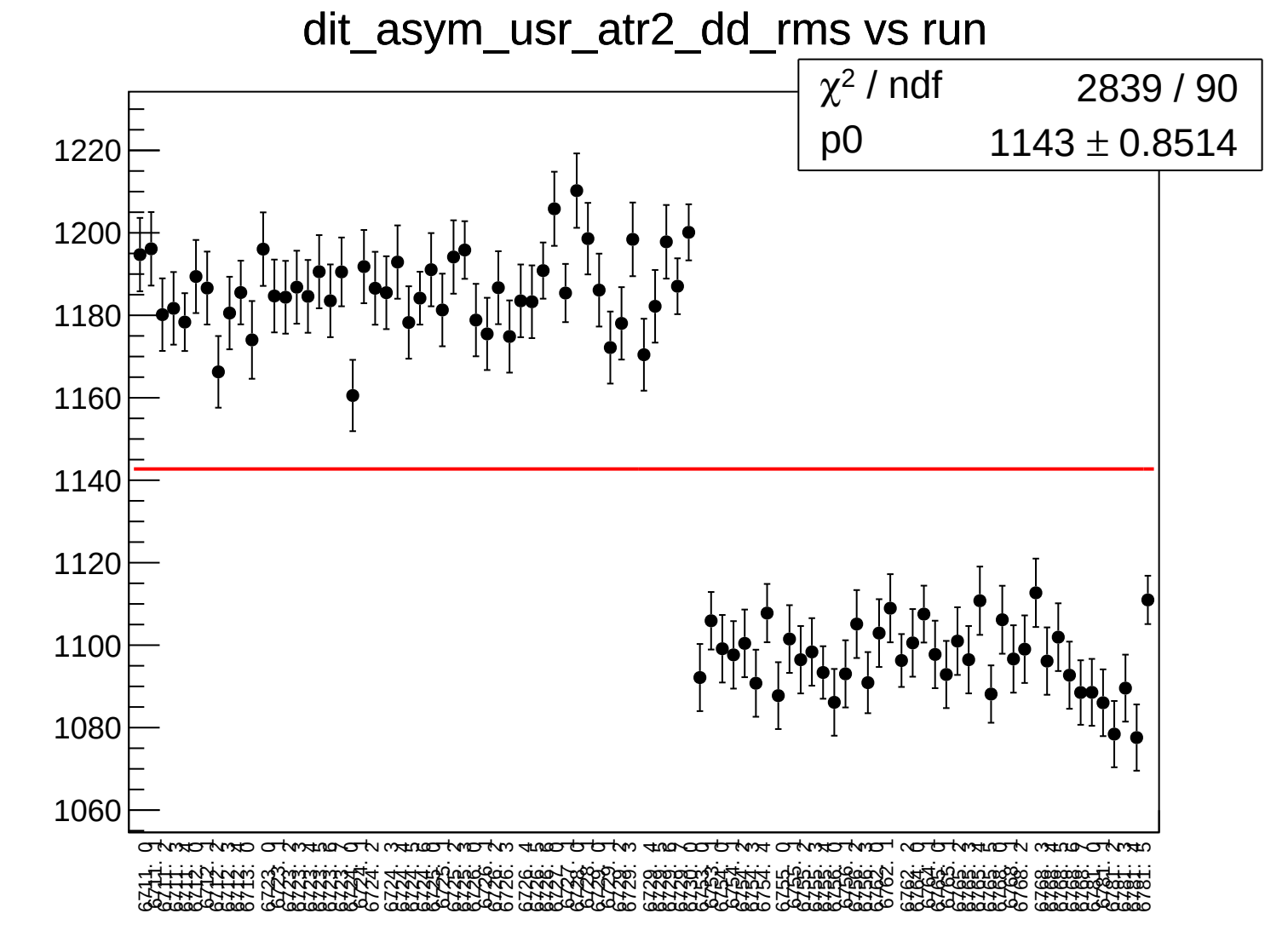

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.18 / 90
p0 698.1 ± 3301
100
50
0
−50
−100
pull
Entries 91
Mean −70.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

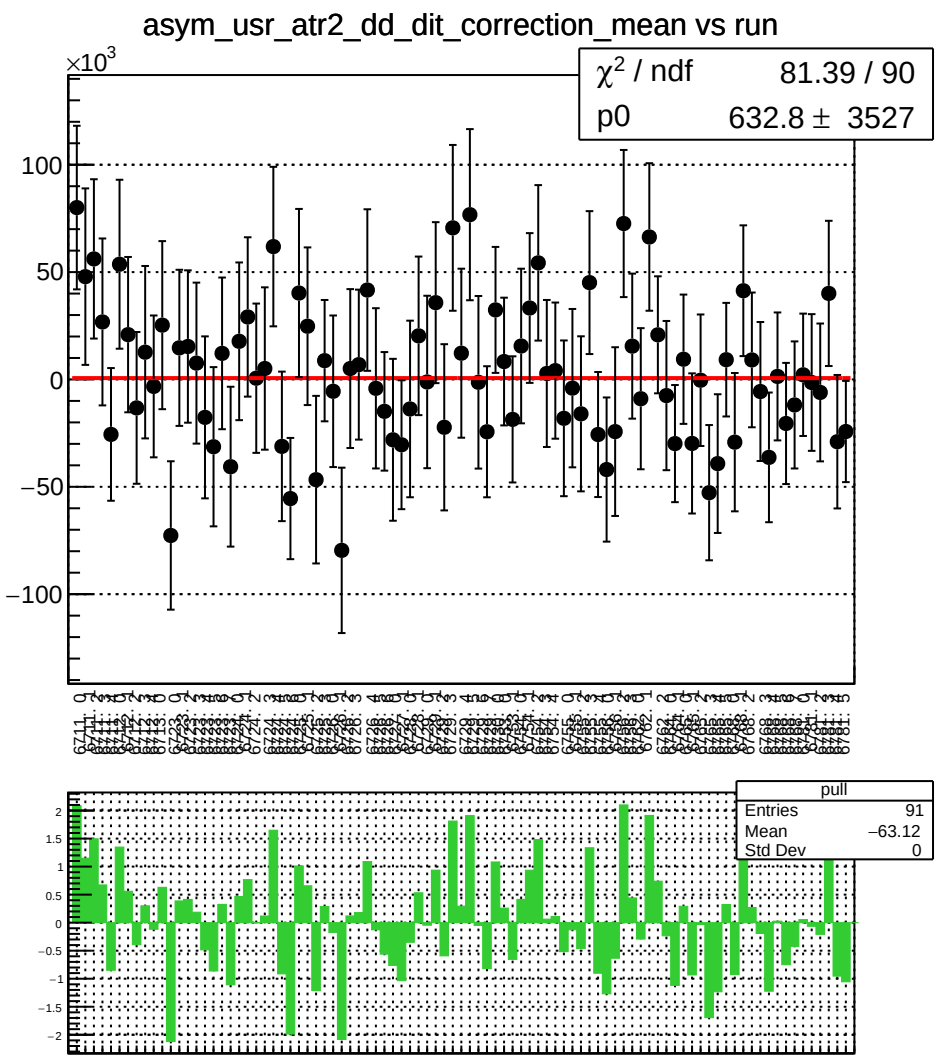

pull1D
Entries 91
Mean 0.03339
Std Dev 0.9439
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

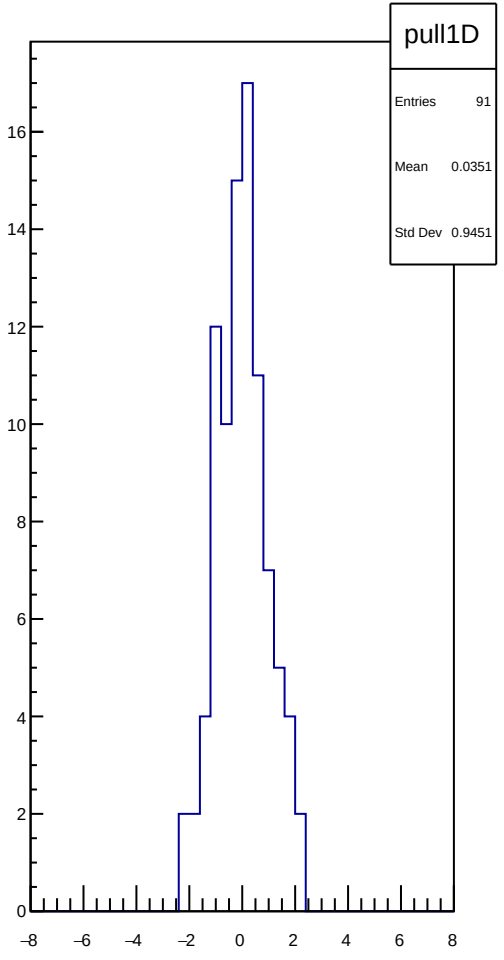

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.24e+04 / 90
p0 3125 ± 2.334
3800
3600
3400
3200
3000
2800
2600
2400

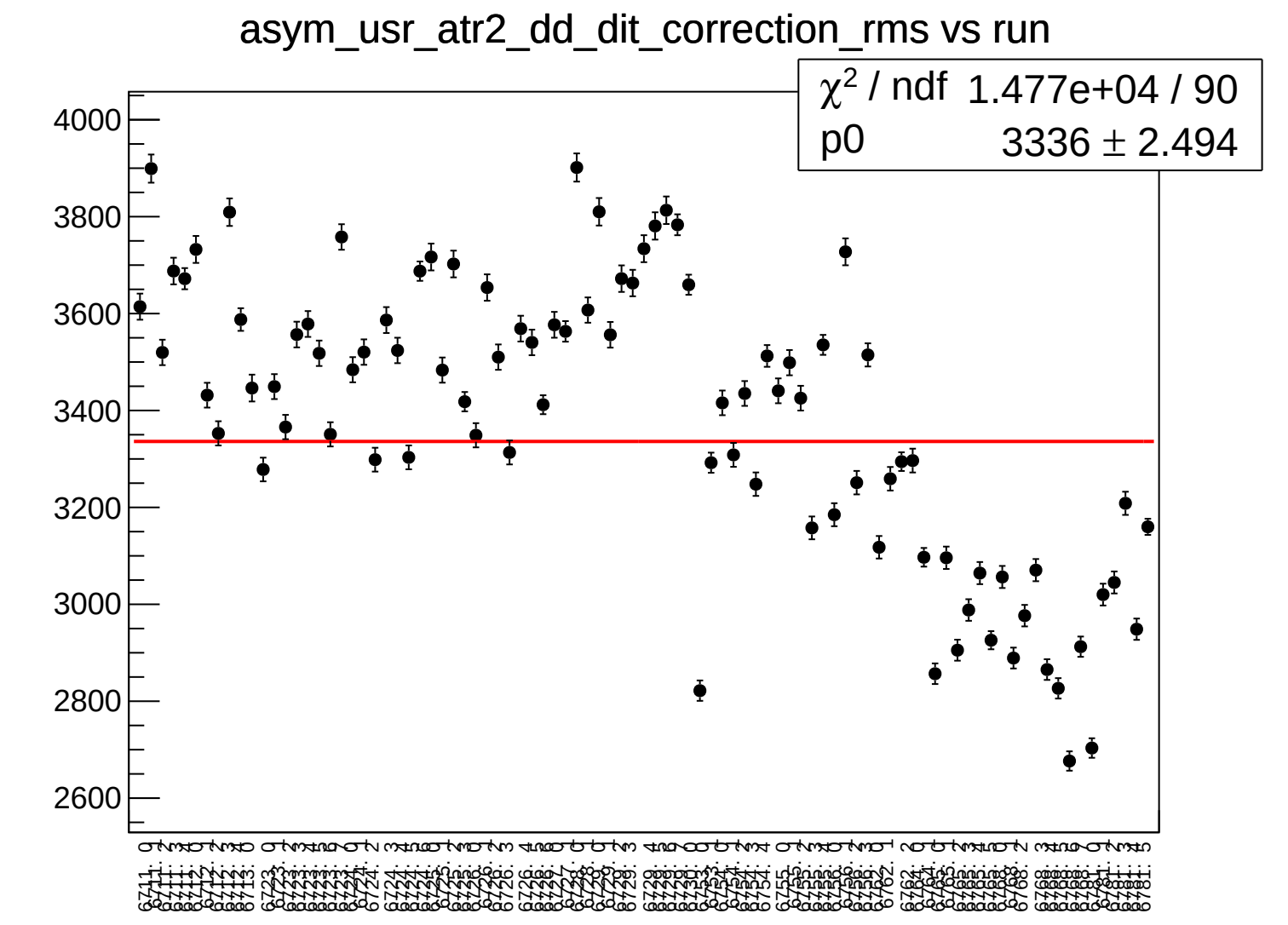

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 83.98 / 90
p0 30.57 ± 1204
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −143.7
Std Dev 0
2
1
0
−1
−2

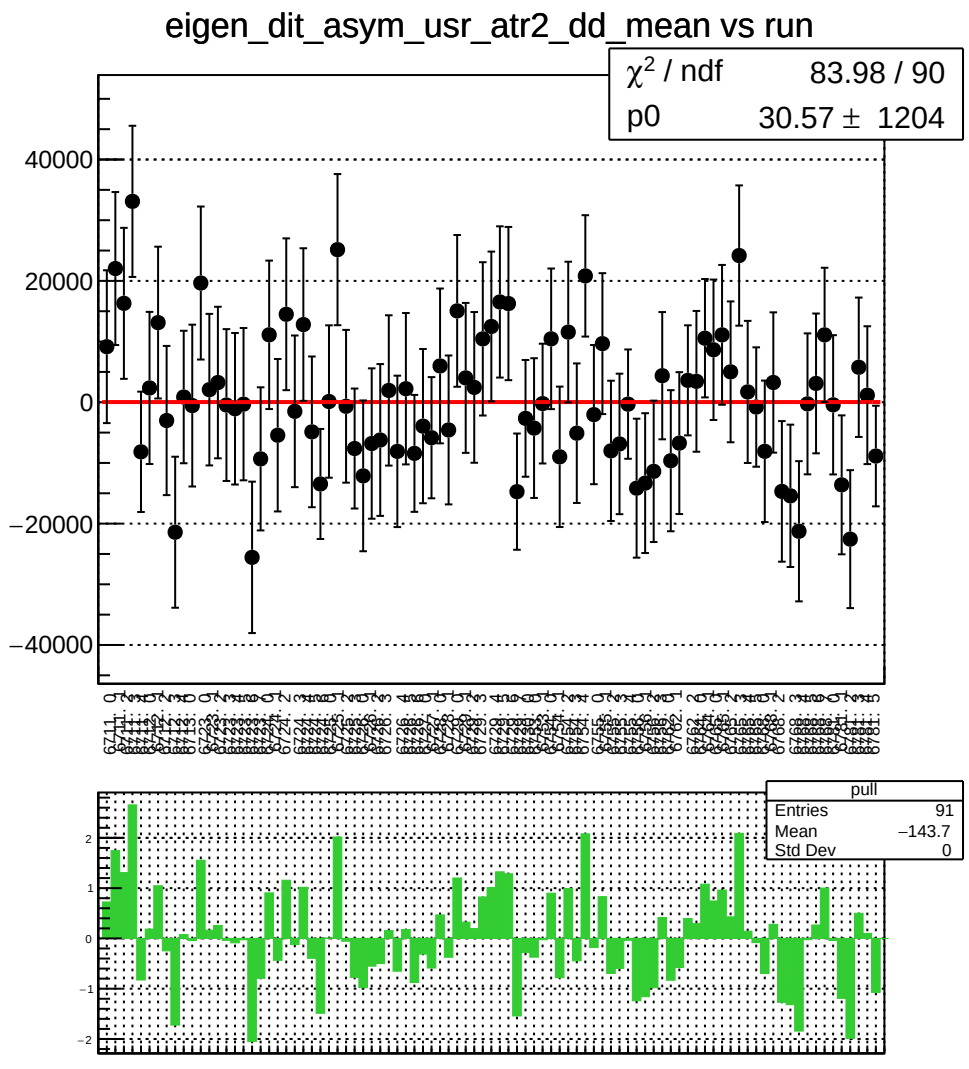

pull1D
Entries 91
Mean 0.02278
Std Dev 0.9604
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

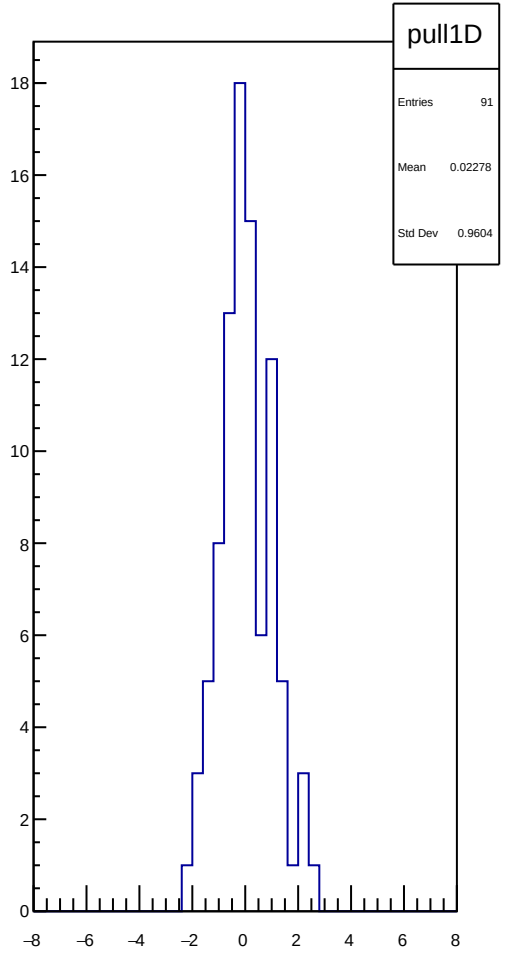

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 2839 / 90
p0 1143 ± 0.8514
1220
1200
1180
1160
1140
1120
1100
1080
1060

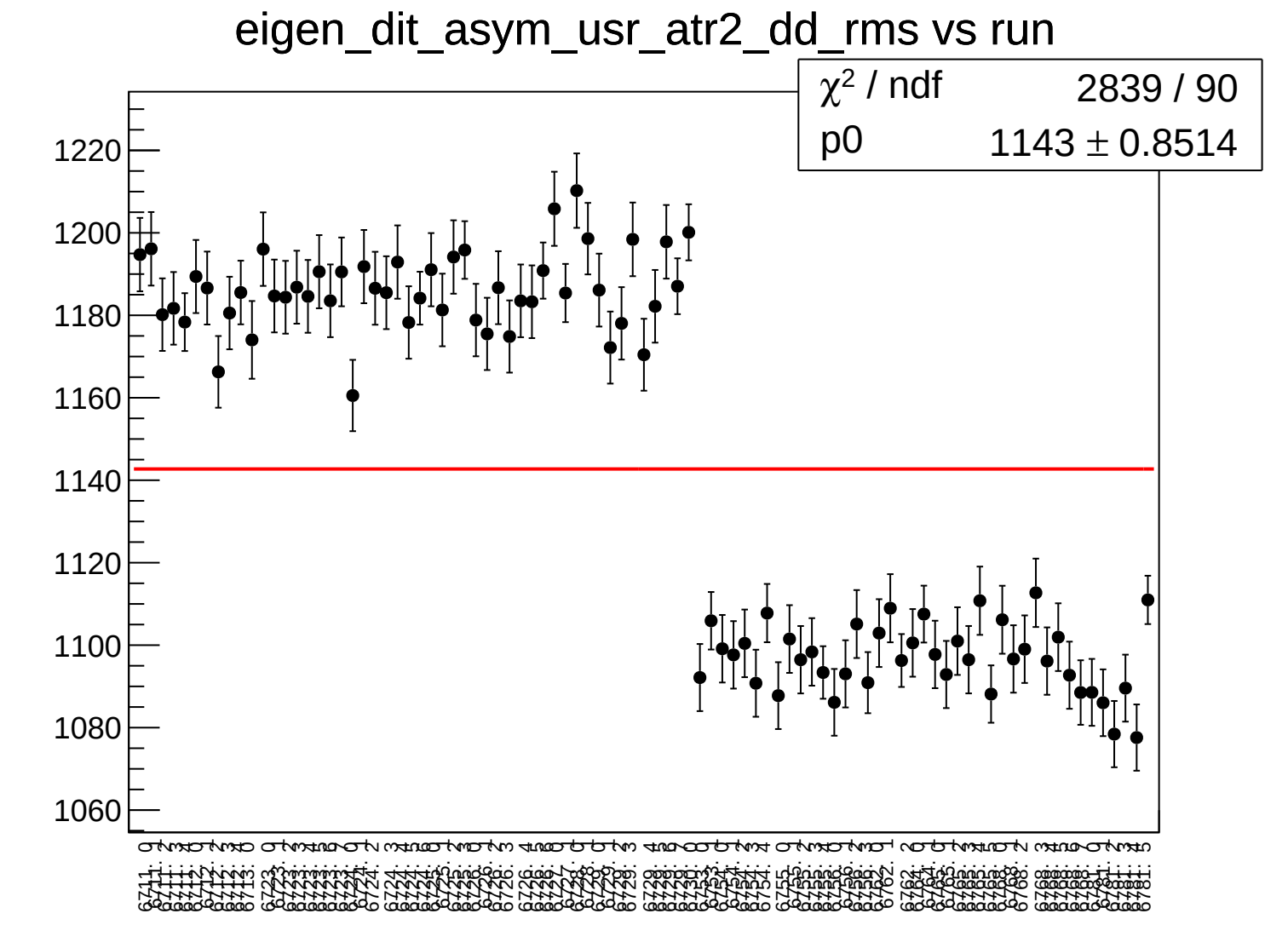

asym_usr_atr2_dd_dit_correction_mean vs run
χ² / ndf 81.39 / 90
p0 632.8 ± 3527
×10³
100
50
0
−50
−100
pull
Entries 91
Mean −63.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

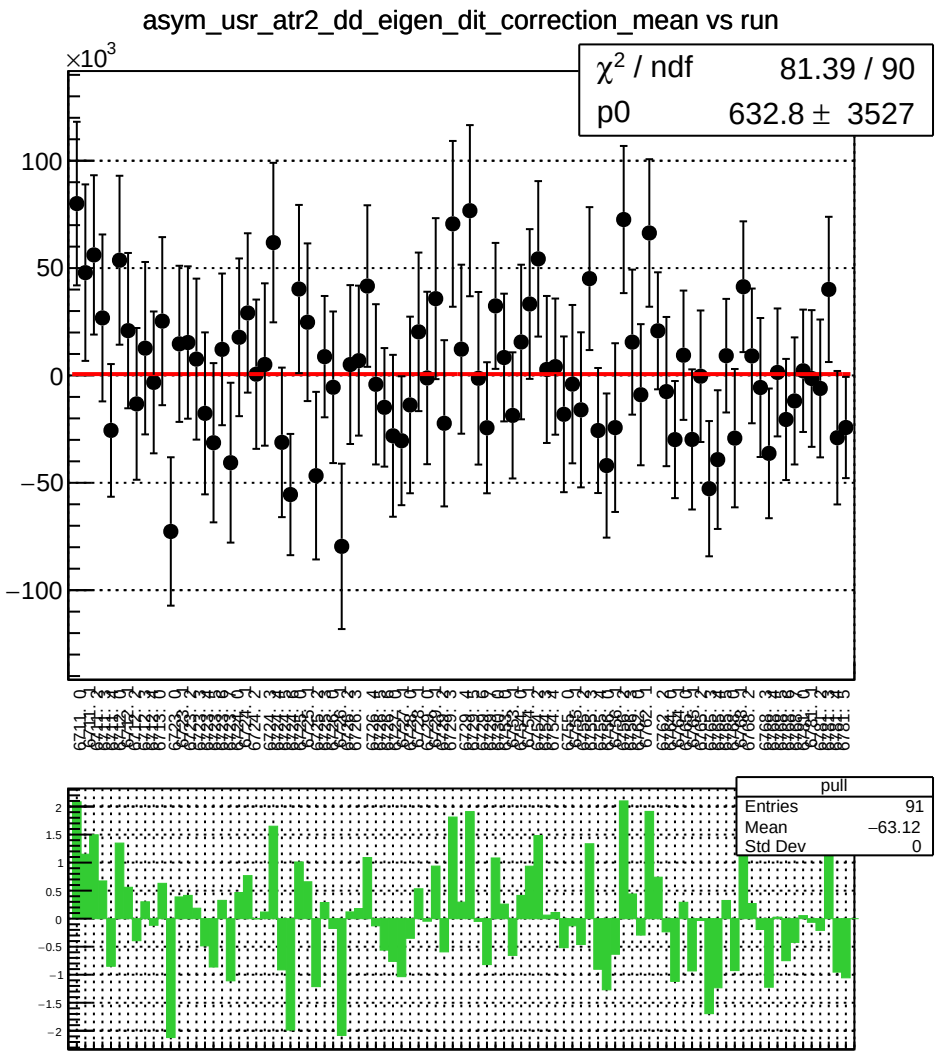

pull1D
Entries 91
Mean 0.0351
Std Dev 0.9451
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

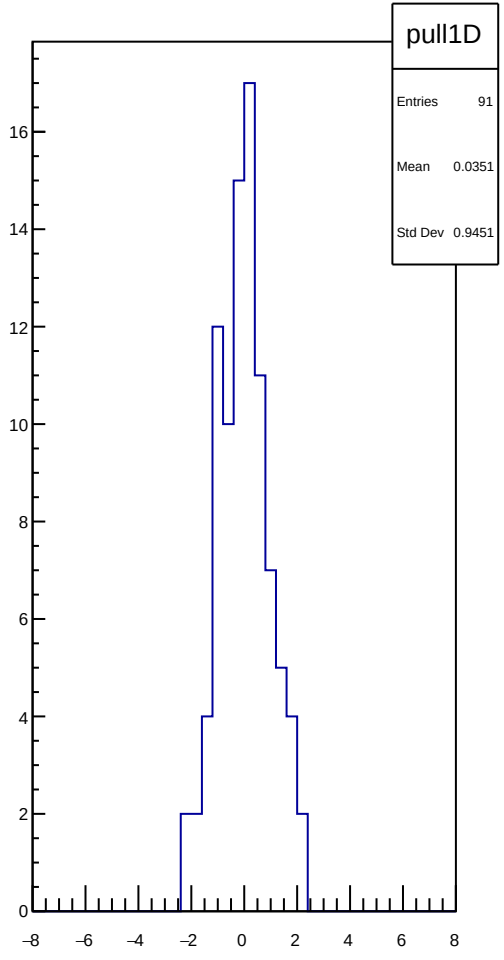

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 1.477e+04 / 90
p0 3336 ± 2.494
4000
3800
3600
3400
3200
3000
2800
2600

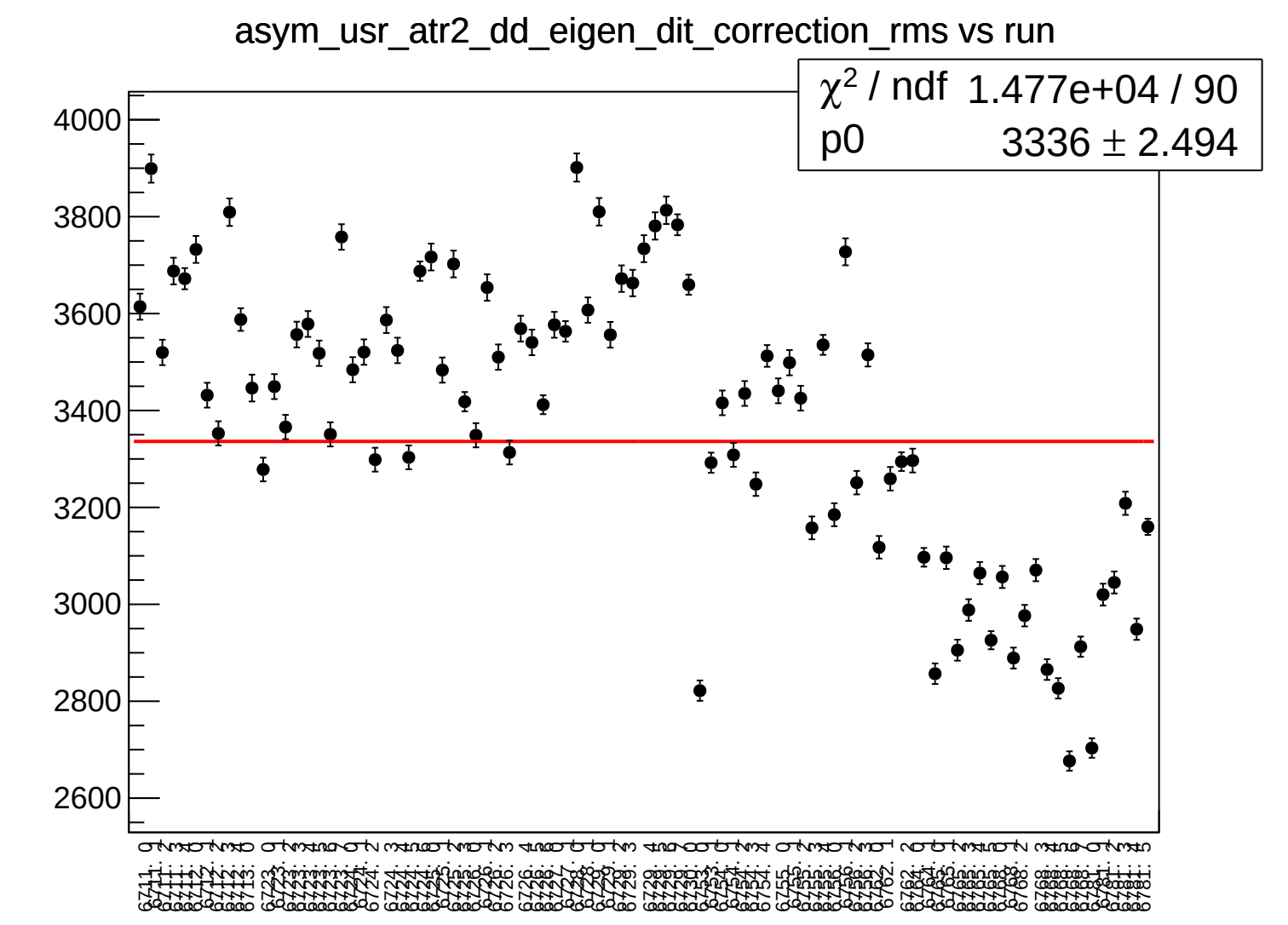

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 83.98 / 90
p0 30.57 ± 1204
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −143.7
Std Dev 0
2
1
0
−1
−2

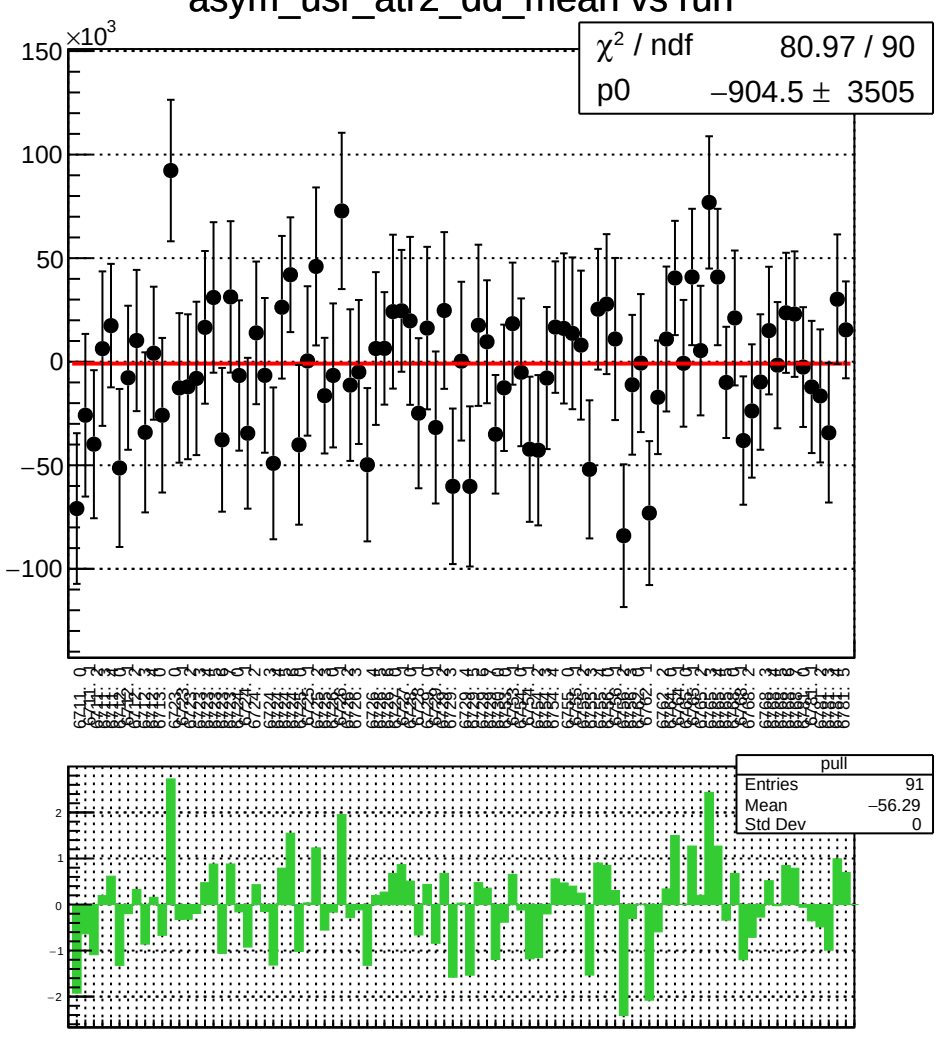

pull1D
Entries 91
Mean 0.02278
Std Dev 0.9604
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

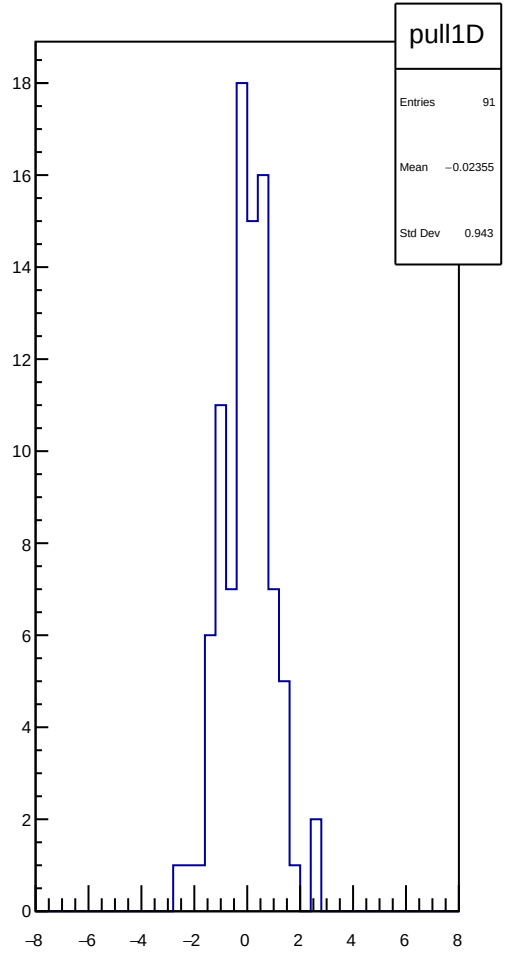

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 2839 / 90
p0 1143 ± 0.8514
1220
1200
1180
1160
1140
1120
1100
1080
1060

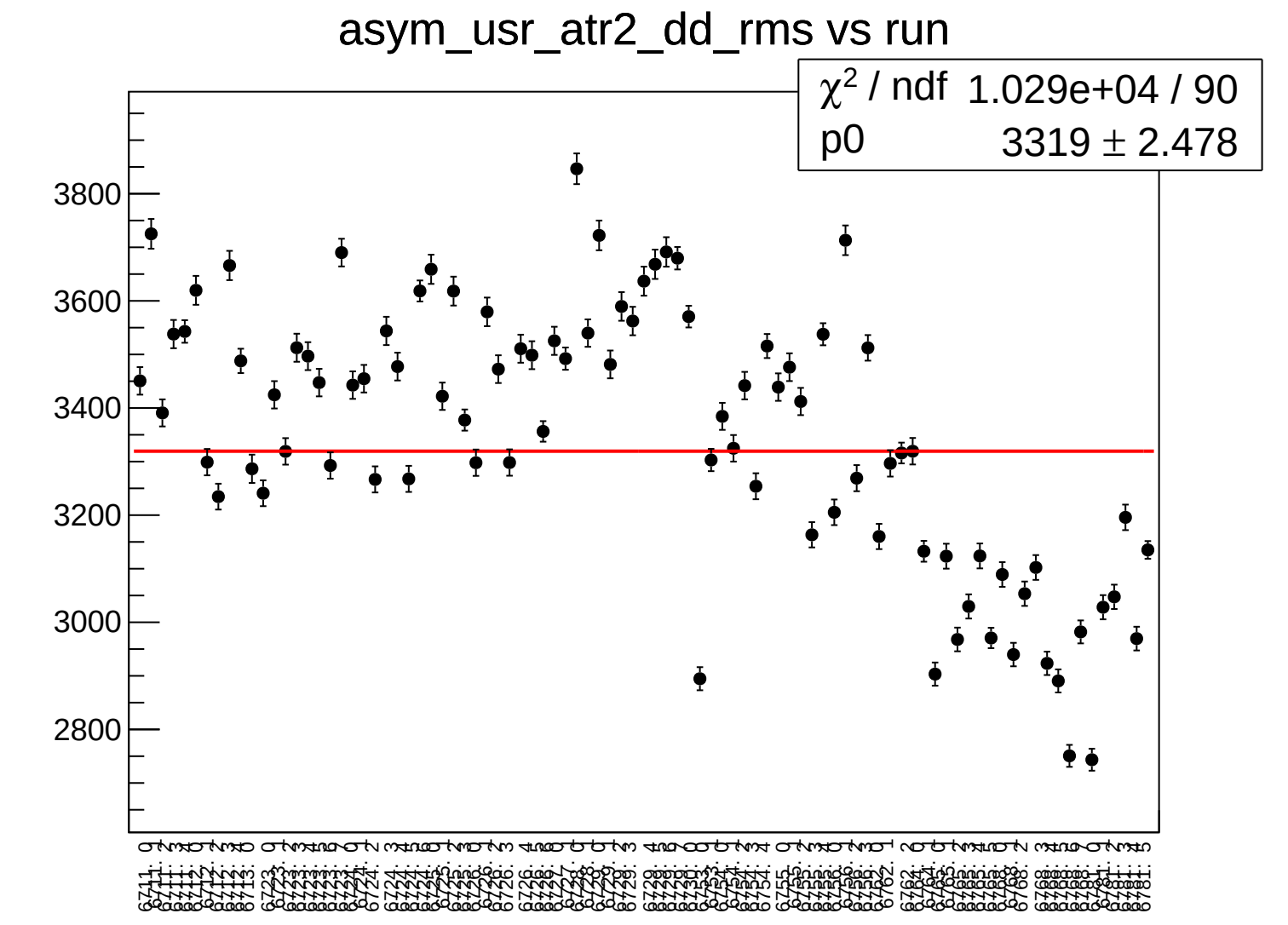

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 81.39 / 90
p0 632.8 ± 3527
100
50
0
−50
−100
pull
Entries 91
Mean −63.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

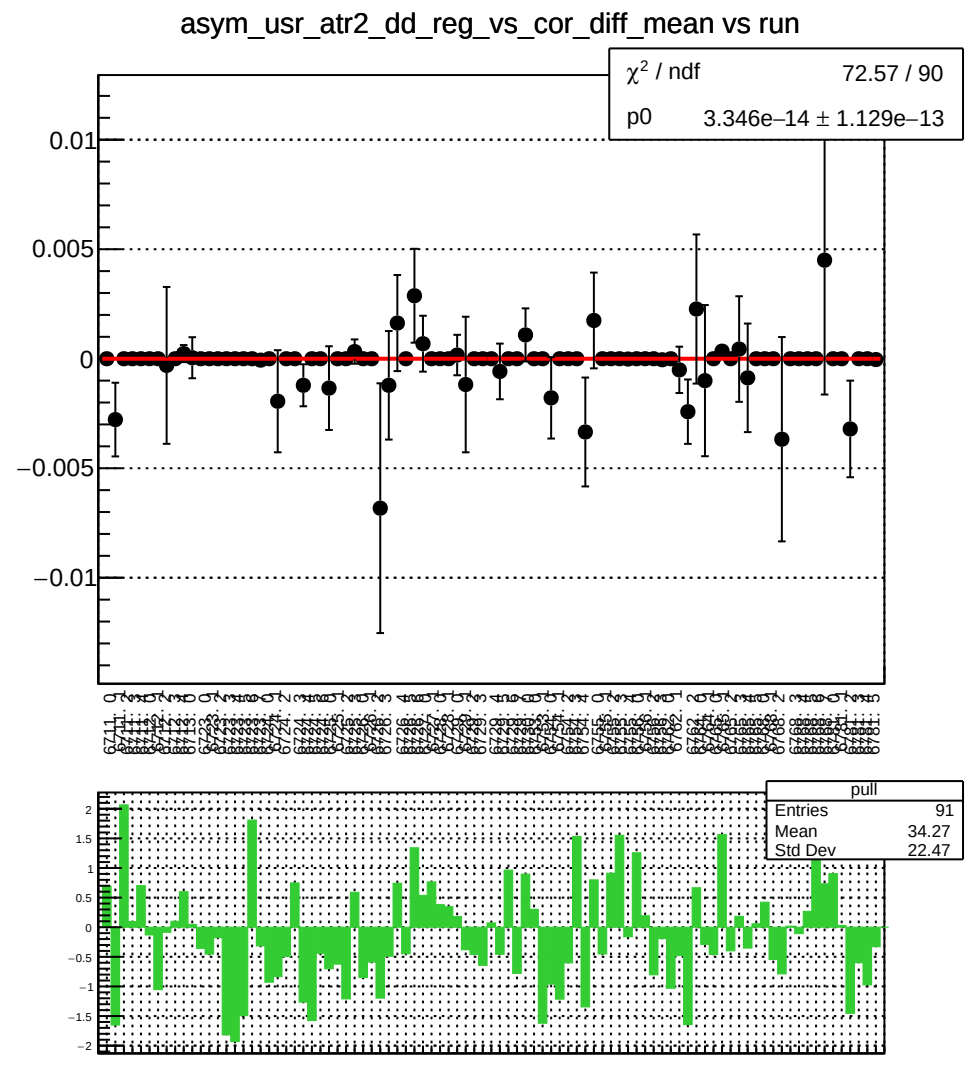

pull1D
Entries 91
Mean 0.0351
Std Dev 0.9451
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

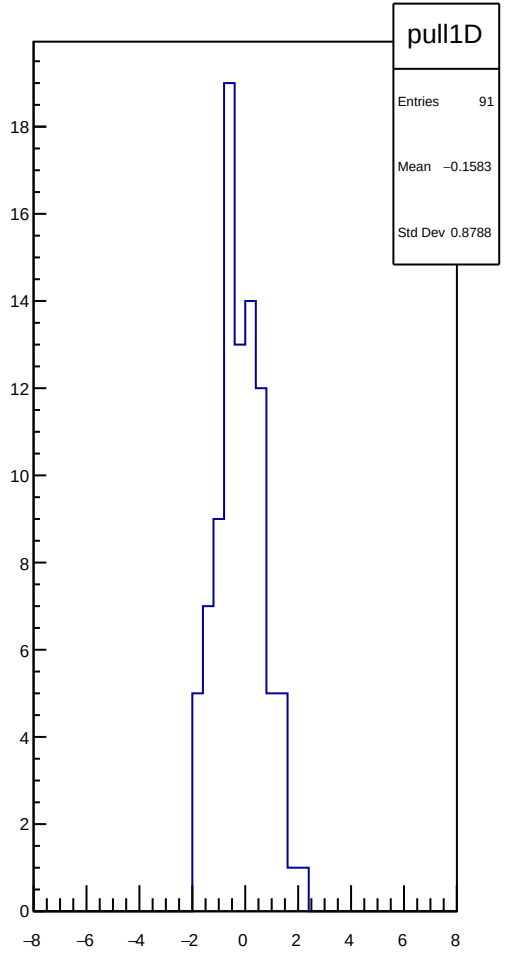

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.477e+04 / 90
p0 3336 ± 2.494
4000
3800
3600
3400
3200
3000
2800
2600

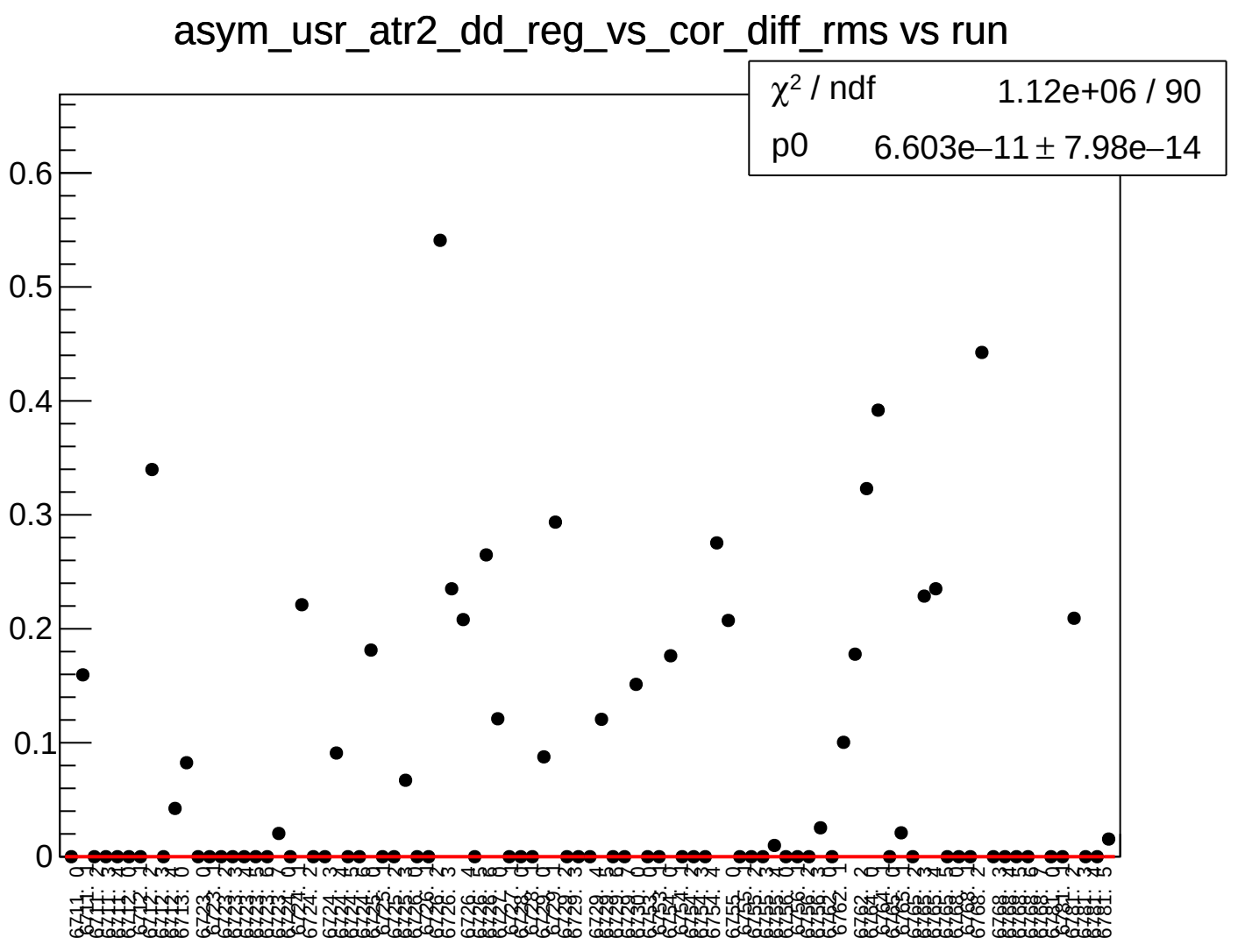

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 80.97 / 90
p0 −904.5 ± 3505
150
100
50
0
−50
−100
pull
Entries 91
Mean −56.29
Std Dev 0
2
1
0
−1
−2

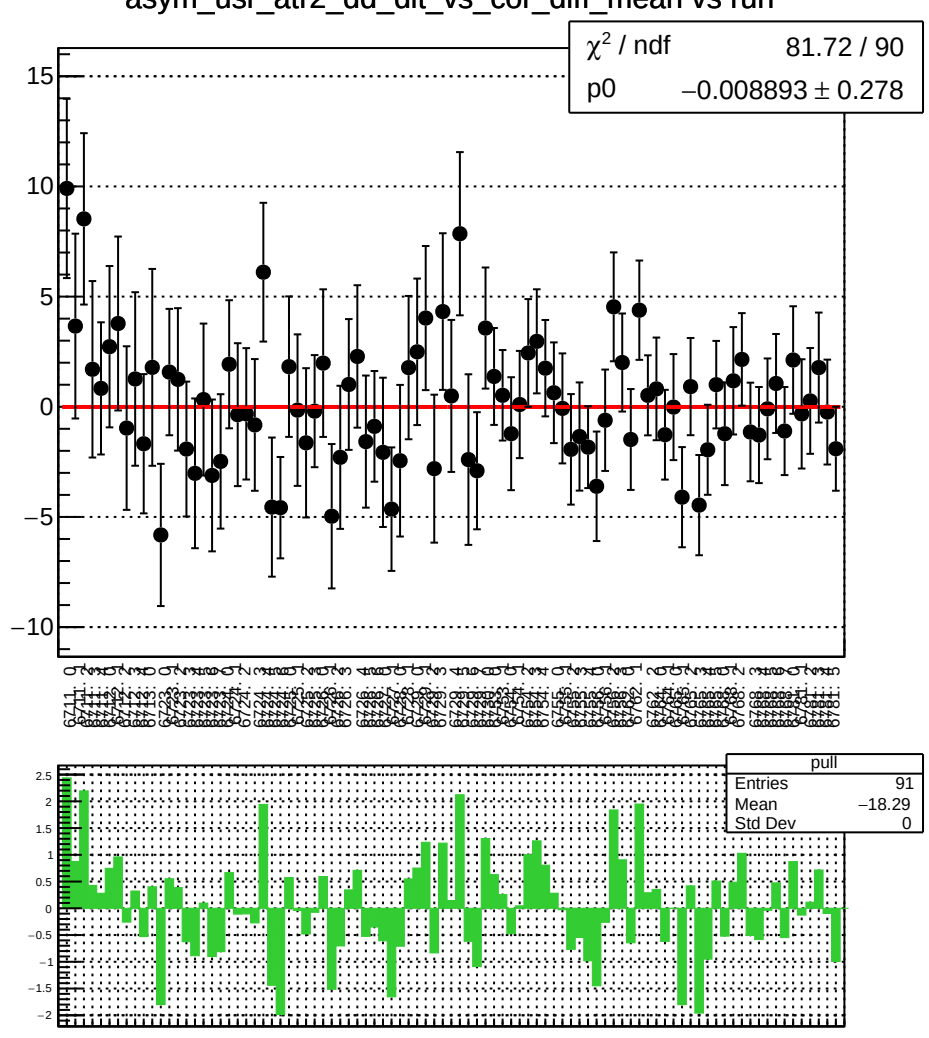

pull1D
Entries 91
Mean −0.02355
Std Dev 0.943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

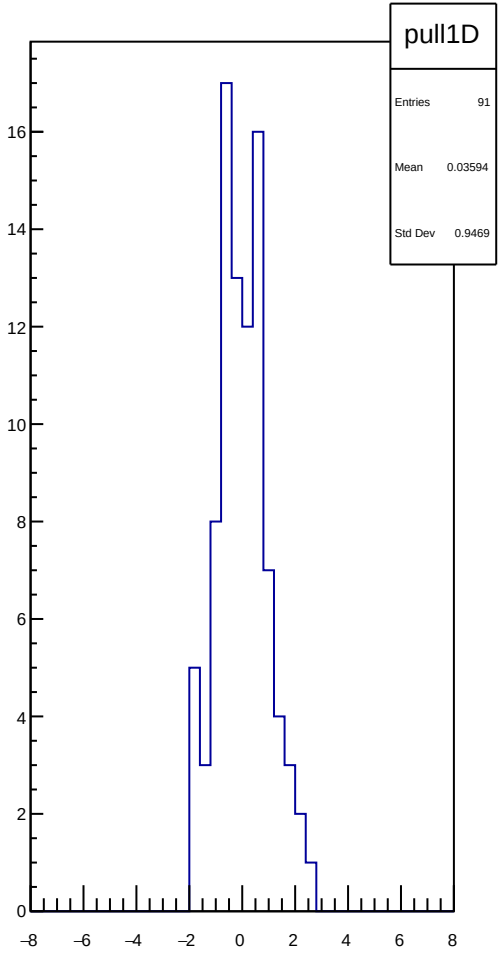

asym_usr_atr2_dd_rms vs run
χ² / ndf 1.029e+04 / 90
p0 3319 ± 2.478
3800
3600
3400
3200
3000
2800

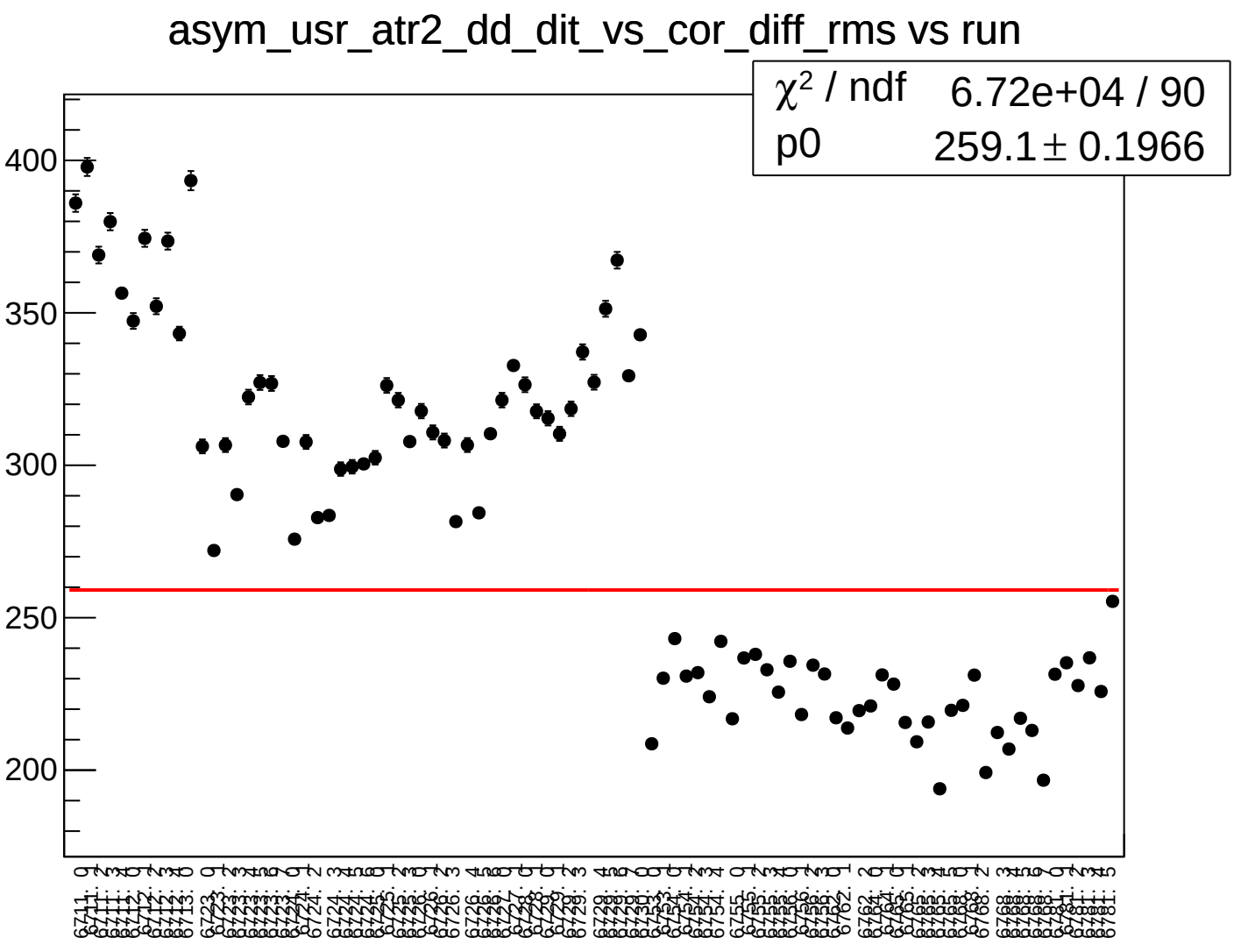

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.57 / 90
p0 3.346e−14 ± 1.129e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean 34.27
Std Dev 22.47
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

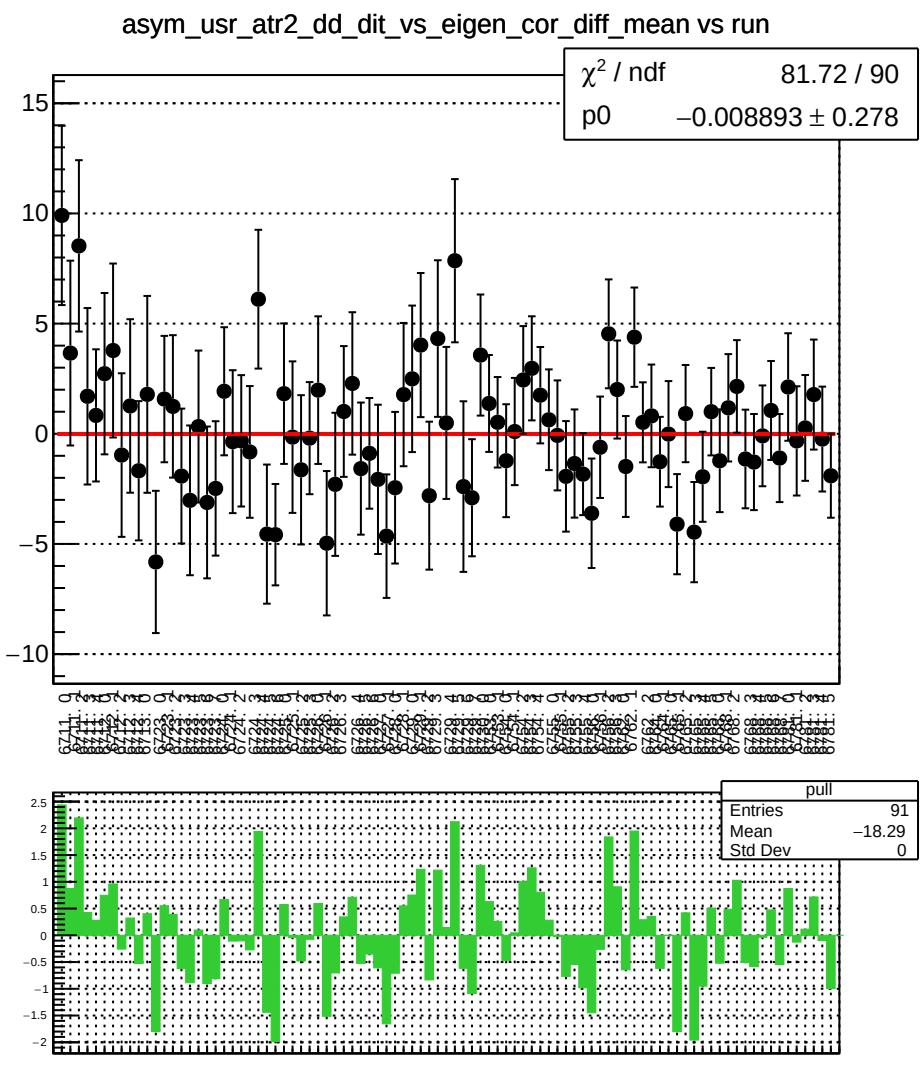

pull1D
Entries 91
Mean −0.1583
Std Dev 0.8788
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

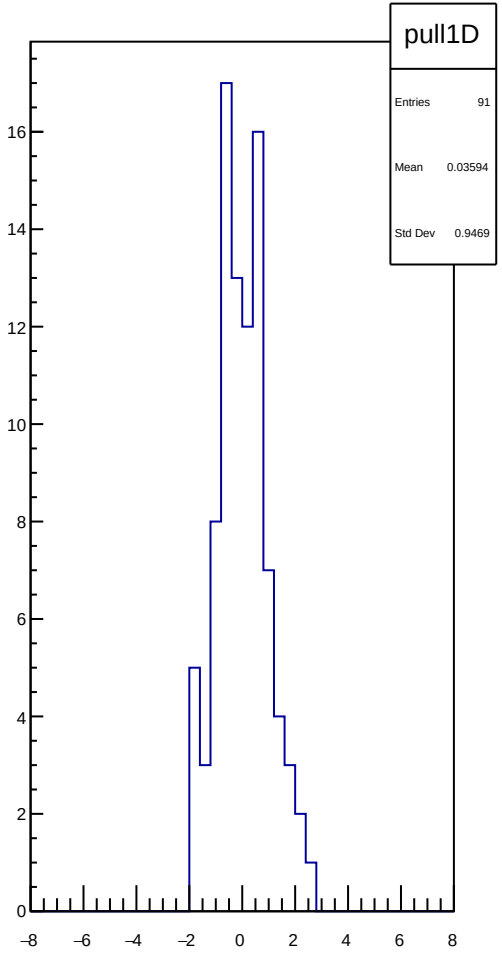

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.12e+06 / 90
p0 6.603e−11 ± 7.98e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

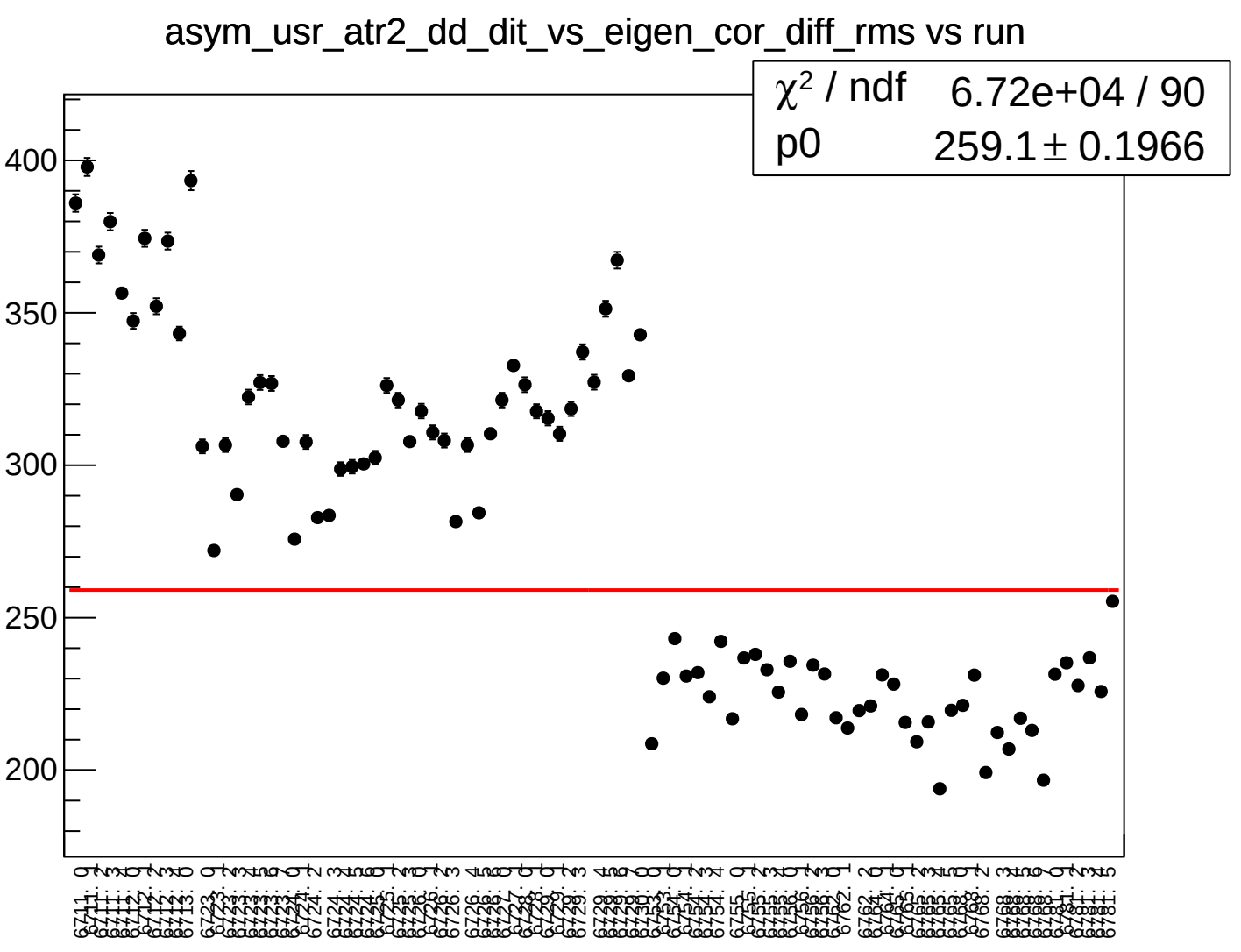

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.72 / 90
p0 −0.008893 ± 0.278
pull
Entries 91
Mean −18.29
Std Dev 0

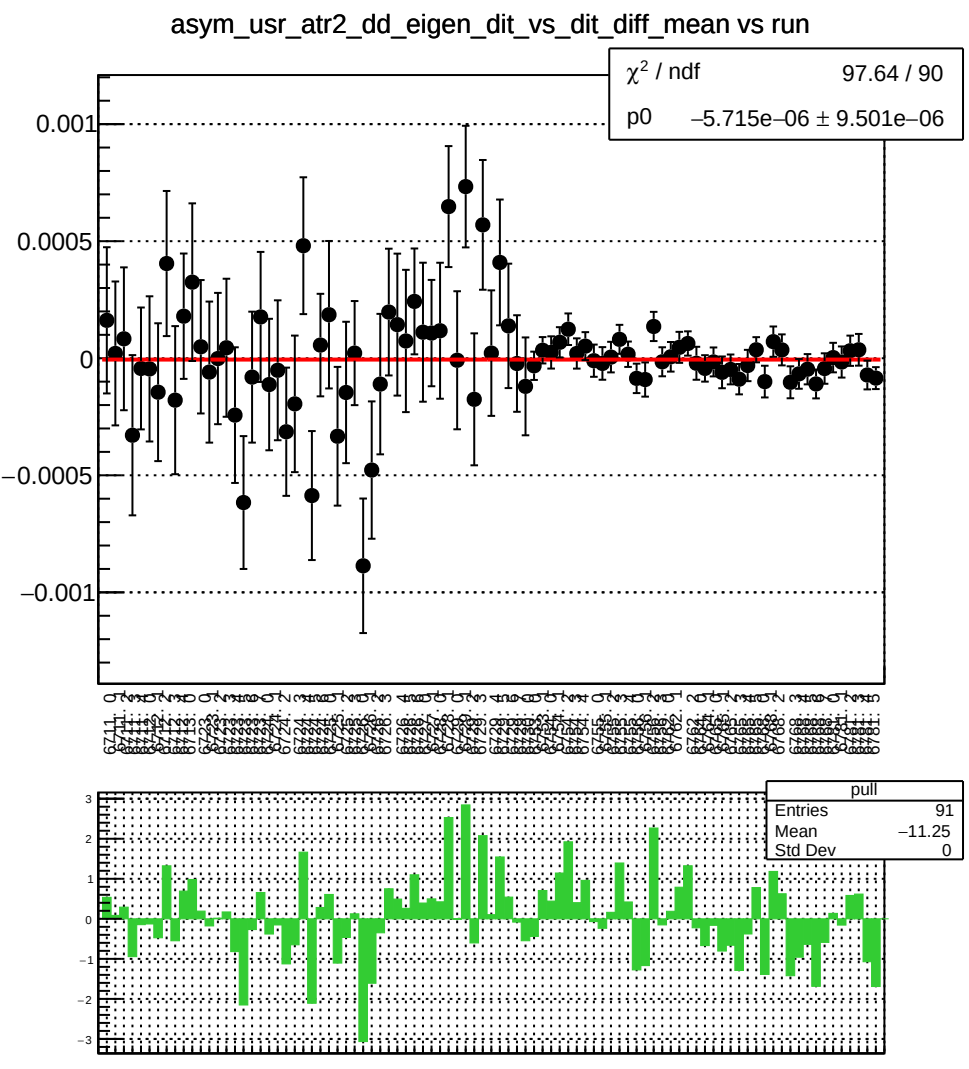

pull1D
Entries 91
Mean 0.03594
Std Dev 0.9469

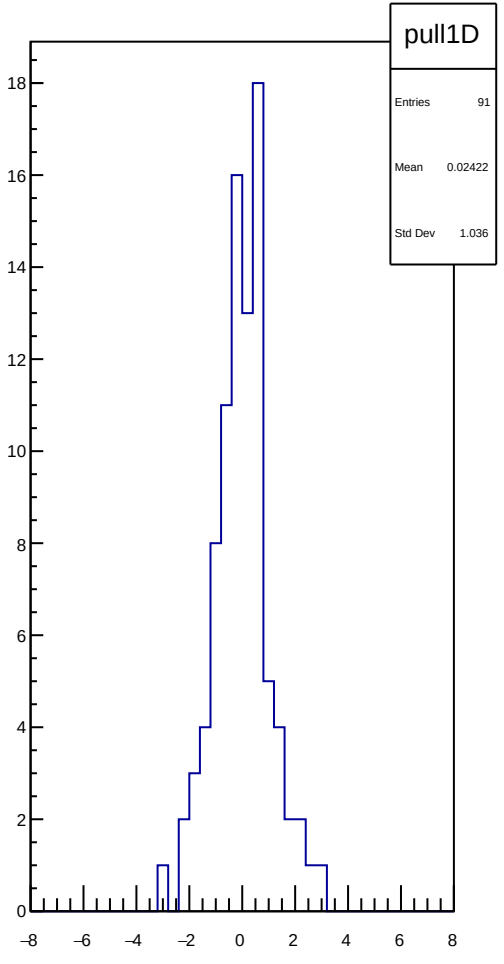

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.72e+04 / 90
p0 259.1 ± 0.1966
400
350
300
250
200

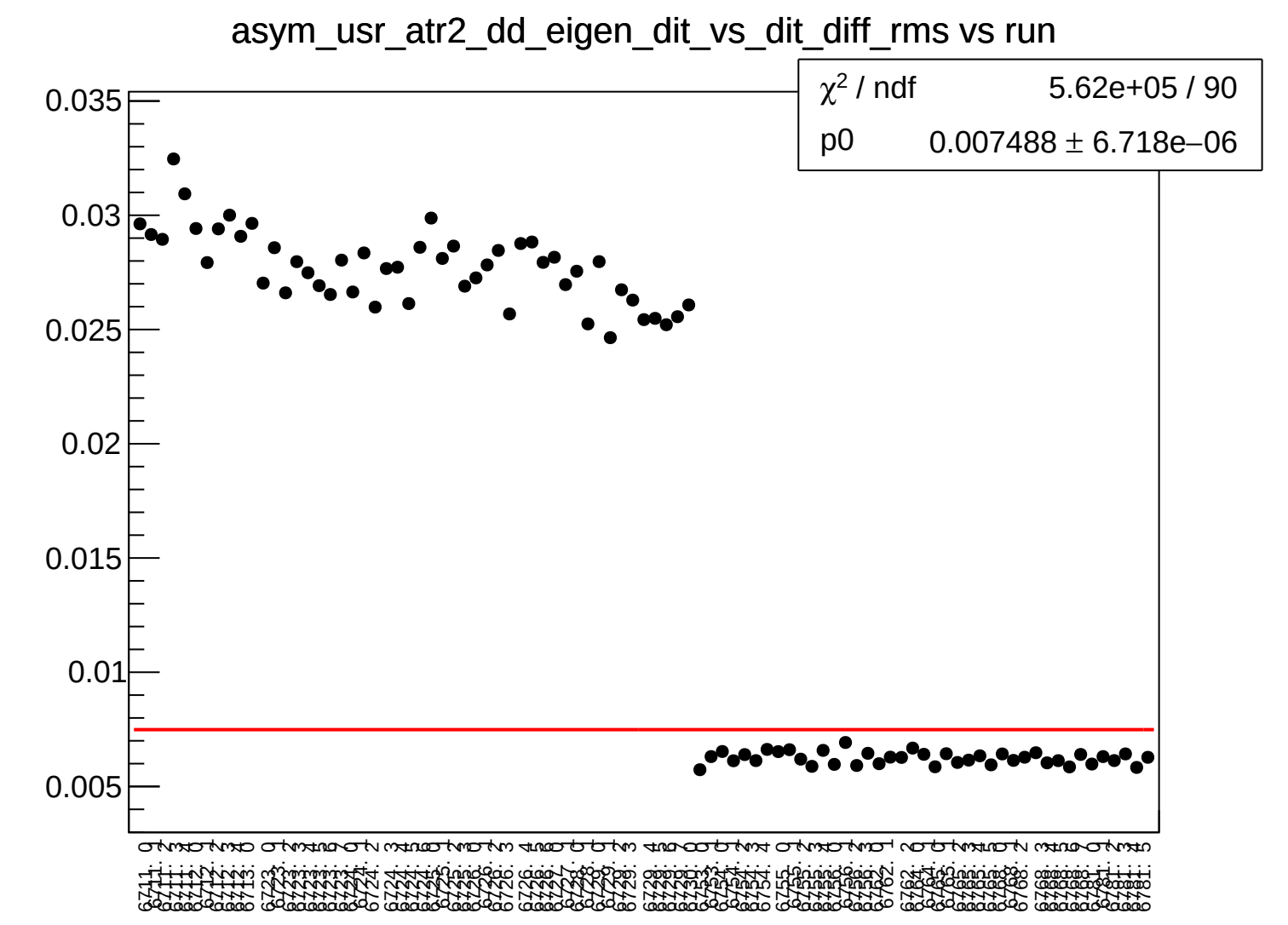

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.72 / 90
p0 −0.008893 ± 0.278
pull
Entries 91
Mean −18.29
Std Dev 0

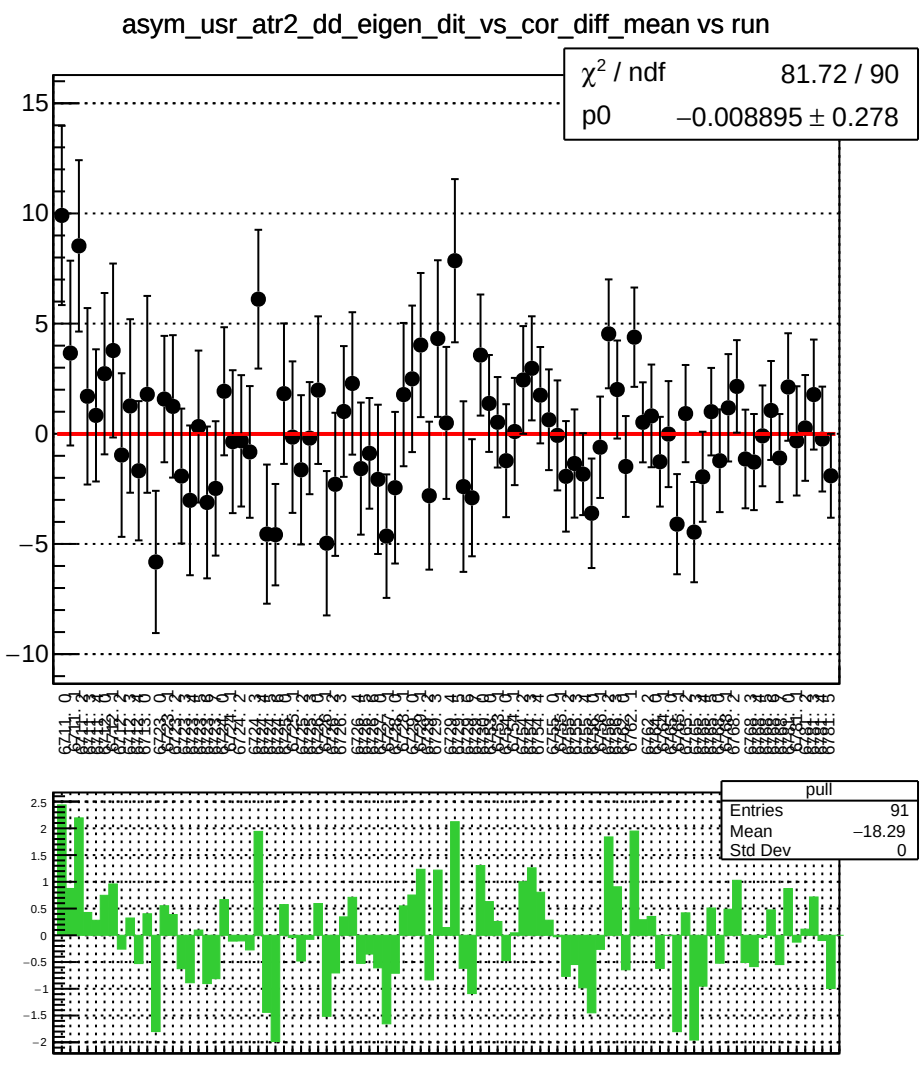

pull1D
Entries 91
Mean 0.03594
Std Dev 0.9469

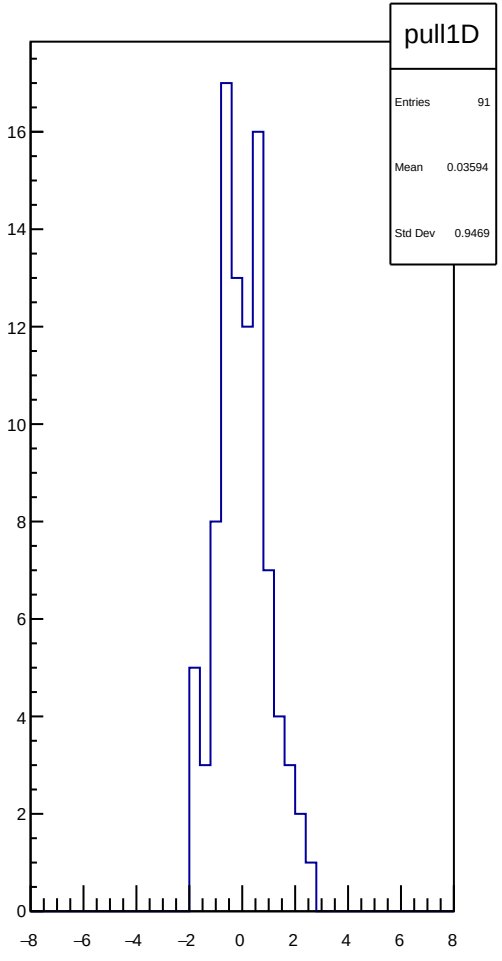

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.72e+04 / 90
p0 259.1 ± 0.1966
400
350
300
250
200

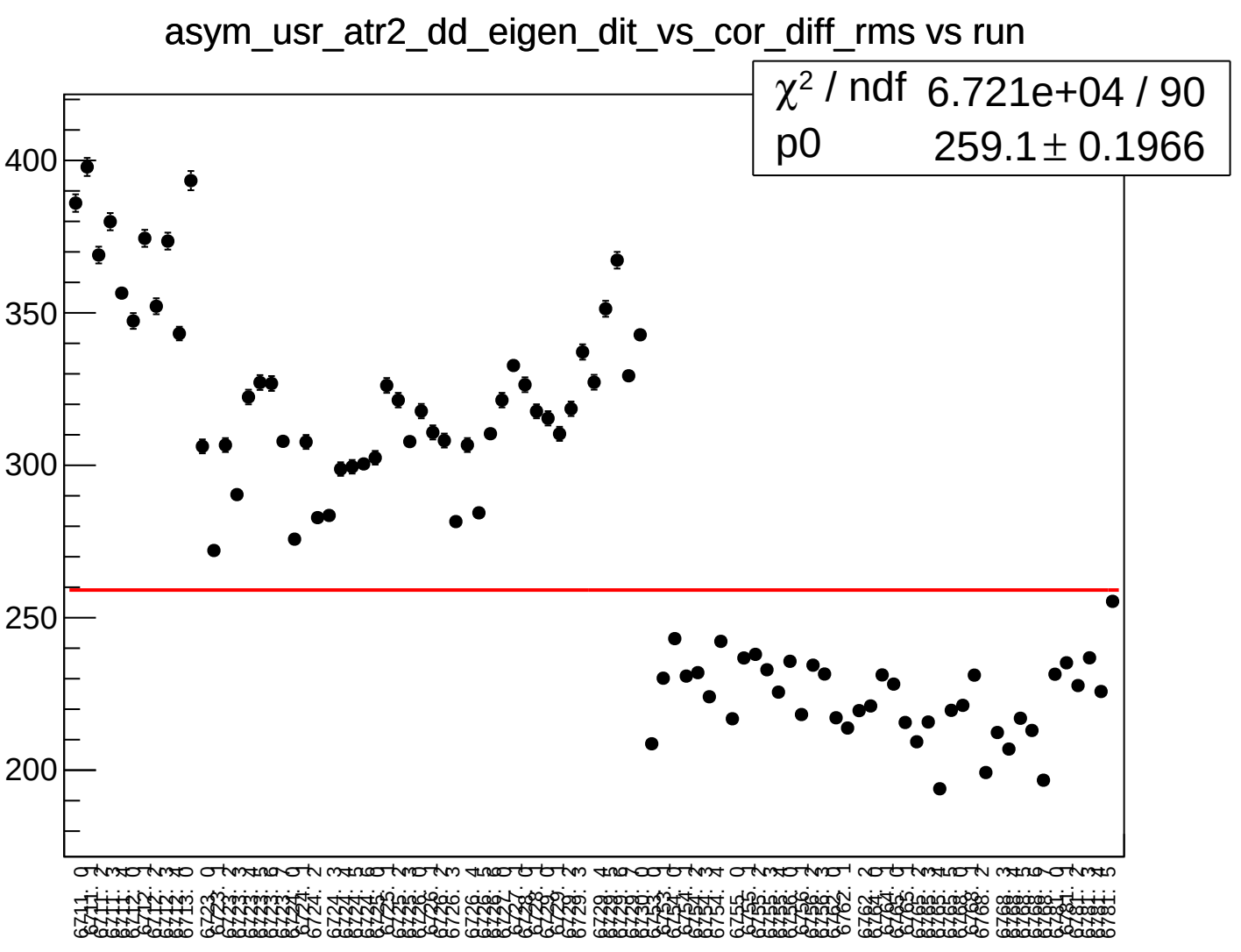

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 97.64 / 90
p0 −5.715e−06 ± 9.501e−06
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean −11.25
Std Dev 0
3
2
1
0
−1
−2
−3

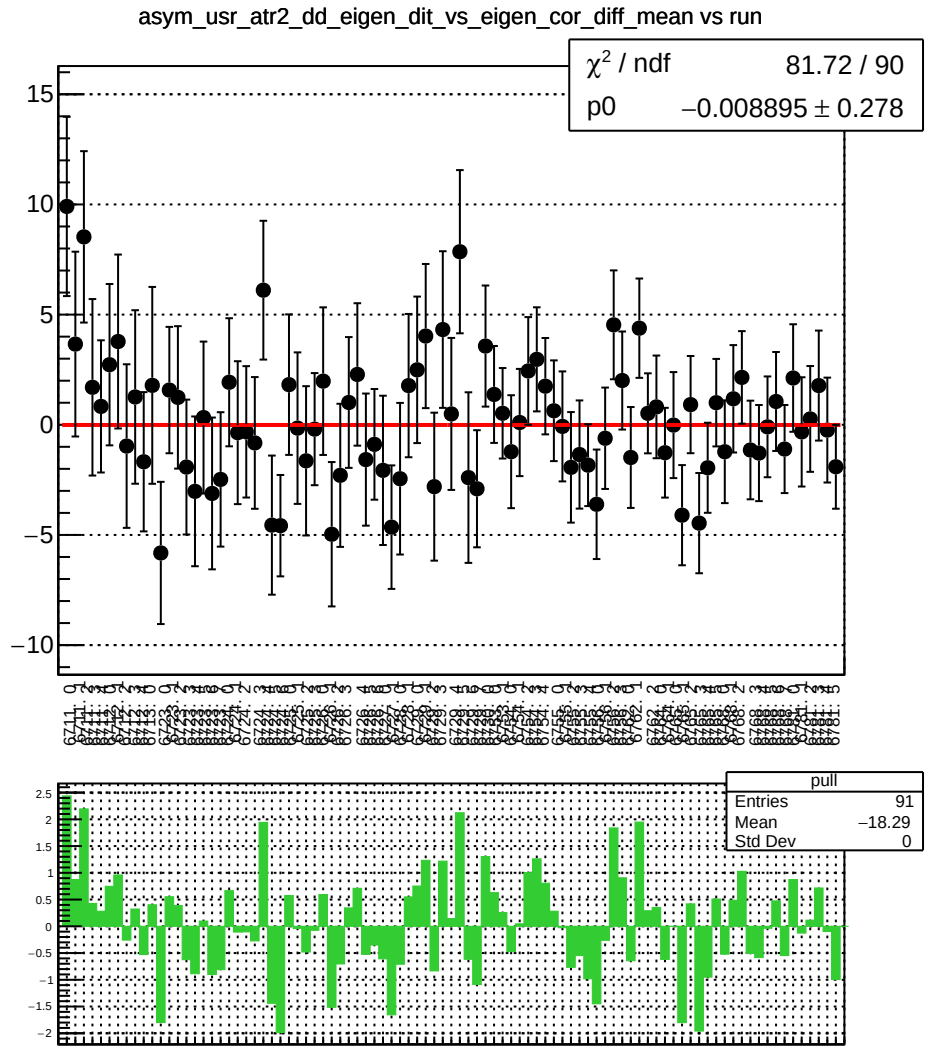

pull1D
Entries 91
Mean 0.02422
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

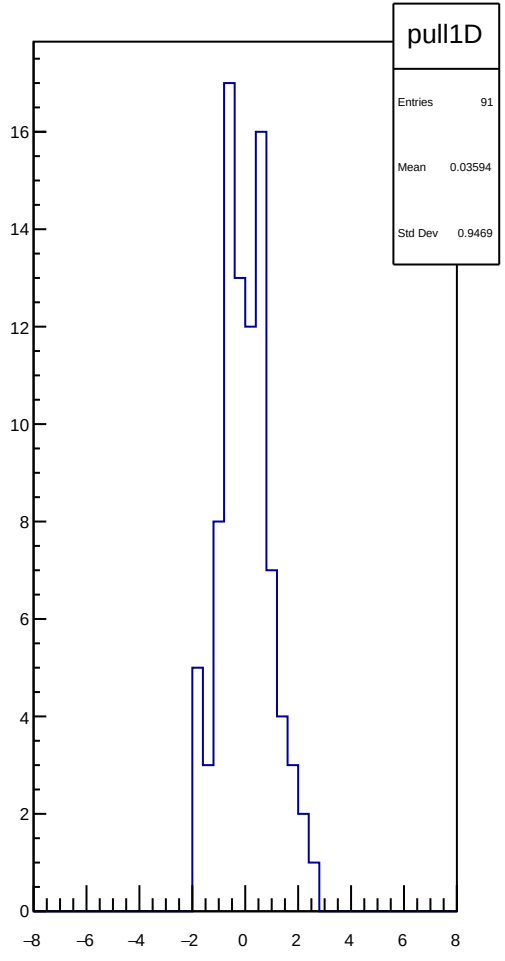

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.62e+05 / 90
p0 0.007488 ± 6.718e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

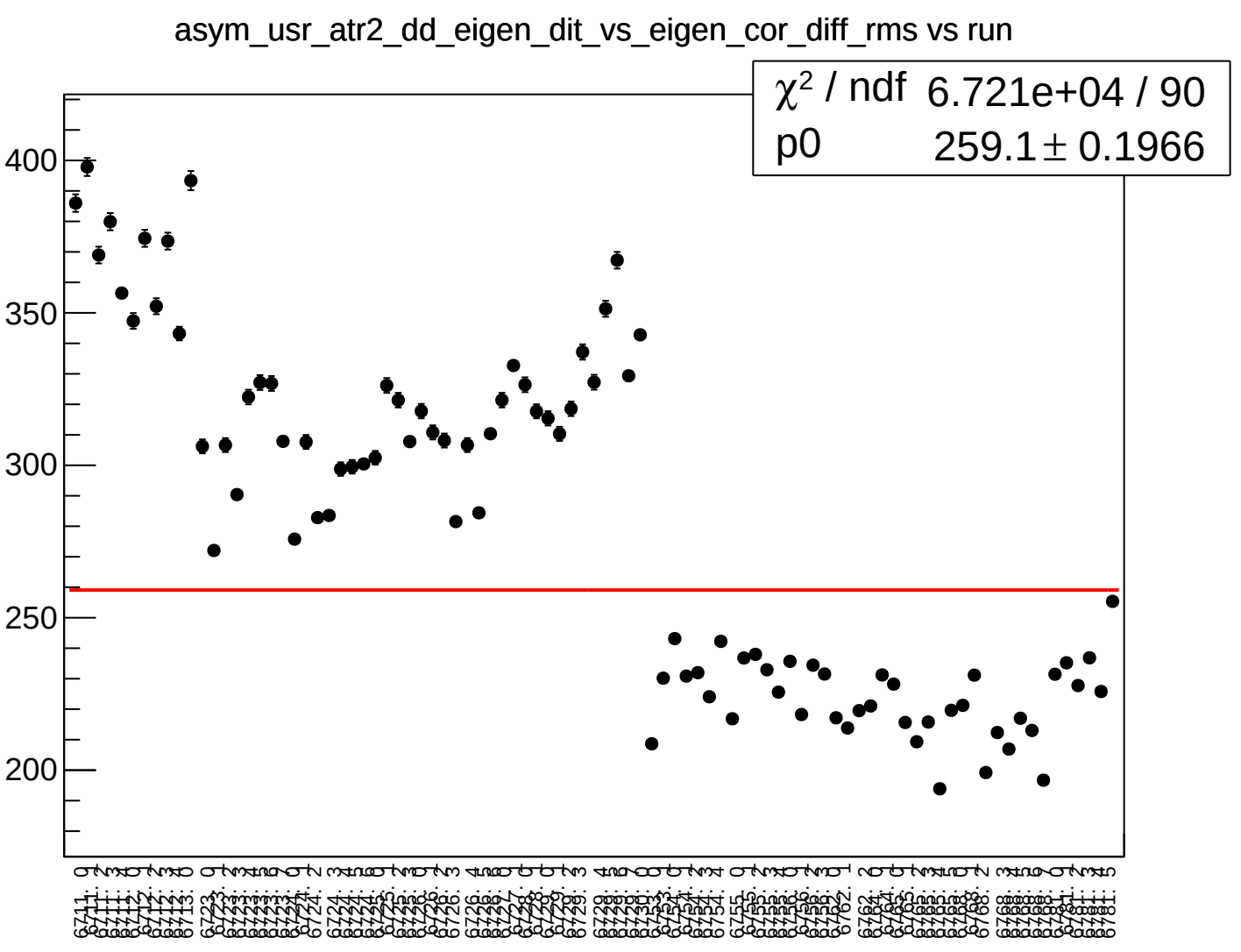

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.72 / 90
p0 −0.008895 ± 0.278
pull
Entries 91
Mean −18.29
Std Dev 0

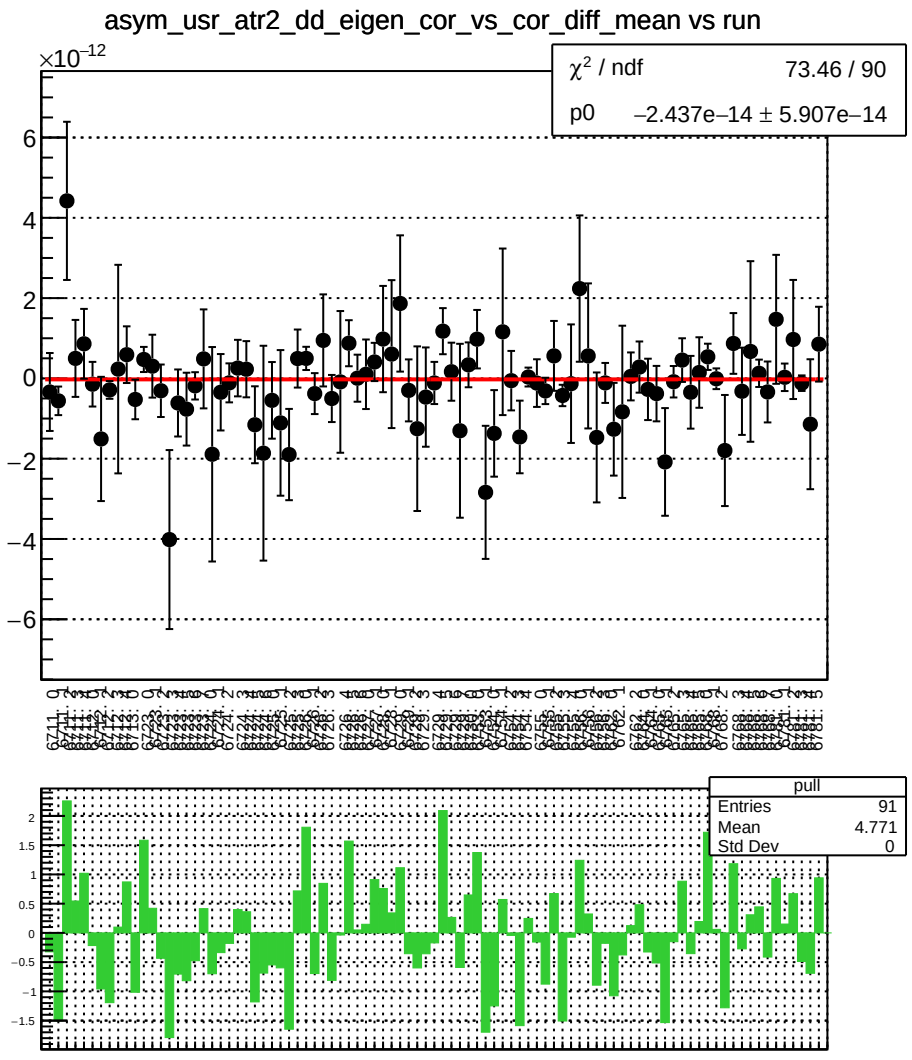

pull1D
Entries 91
Mean 0.03594
Std Dev 0.9469

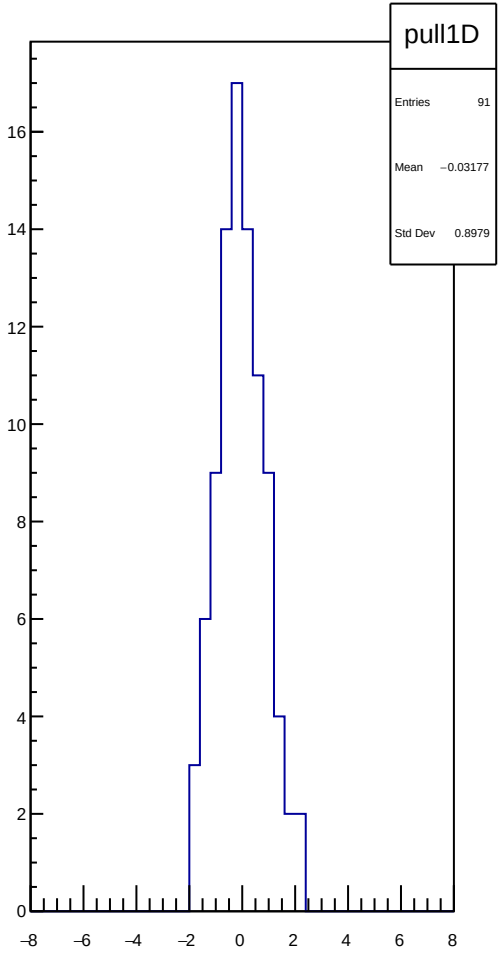

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.721e+04 / 90
p0 259.1 ± 0.1966
400
350
300
250
200

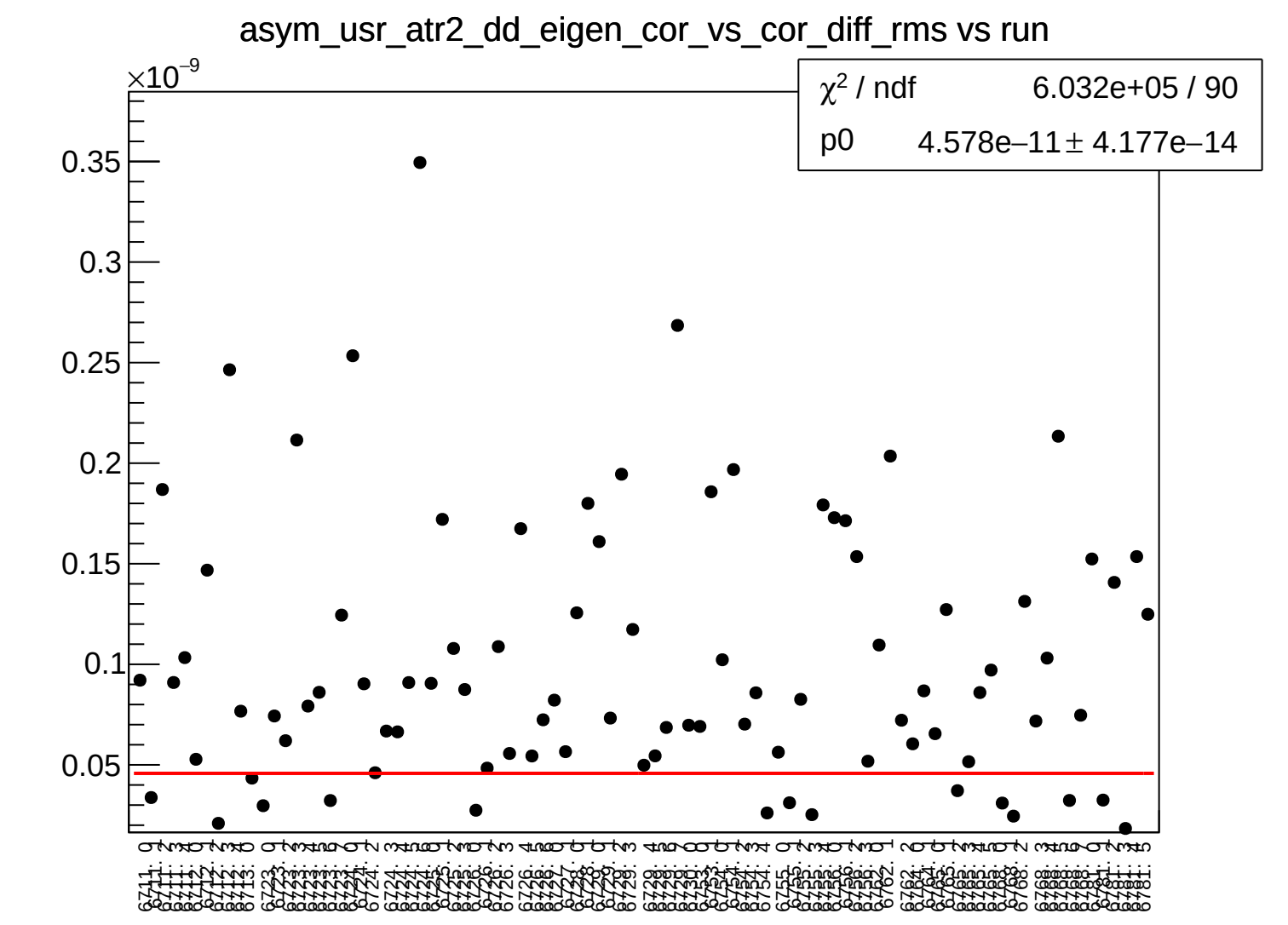

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.72 / 90
p0 −0.008895 ± 0.278
pull
Entries 91
Mean −18.29
Std Dev 0

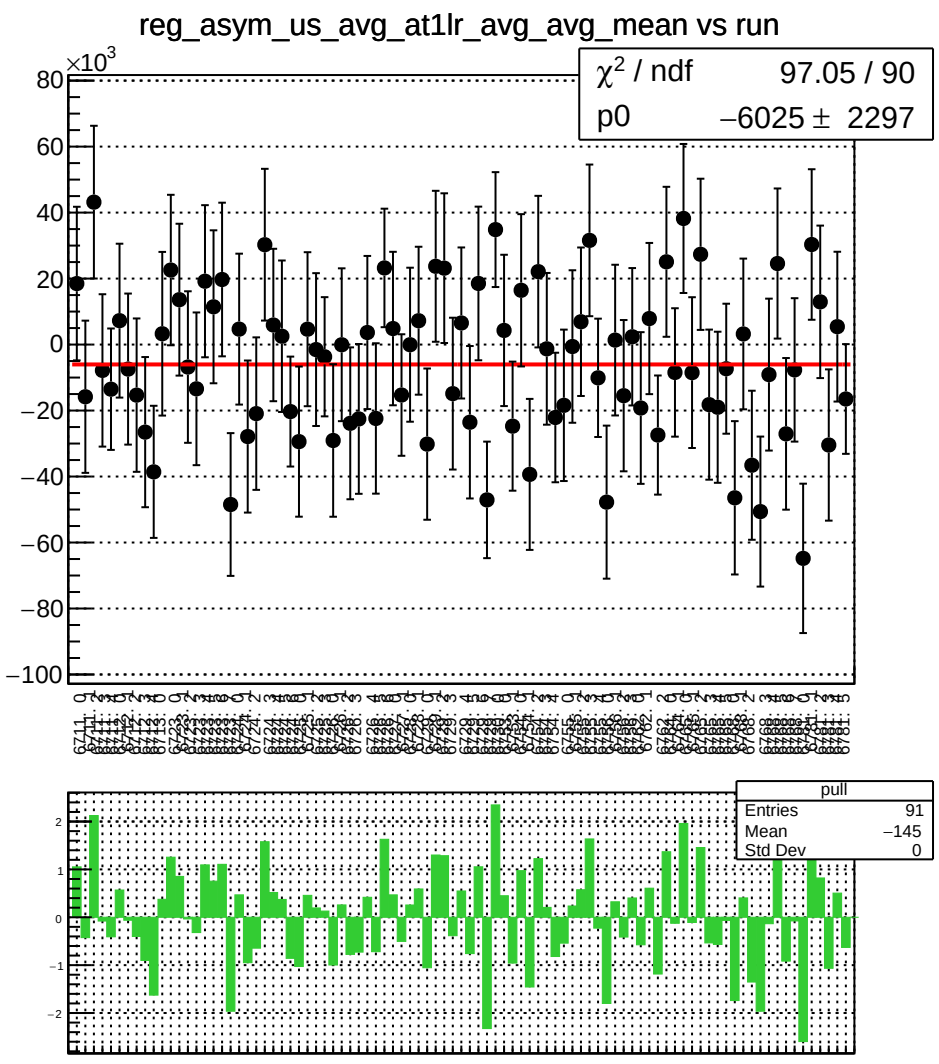

pull1D
Entries 91
Mean 0.03594
Std Dev 0.9469

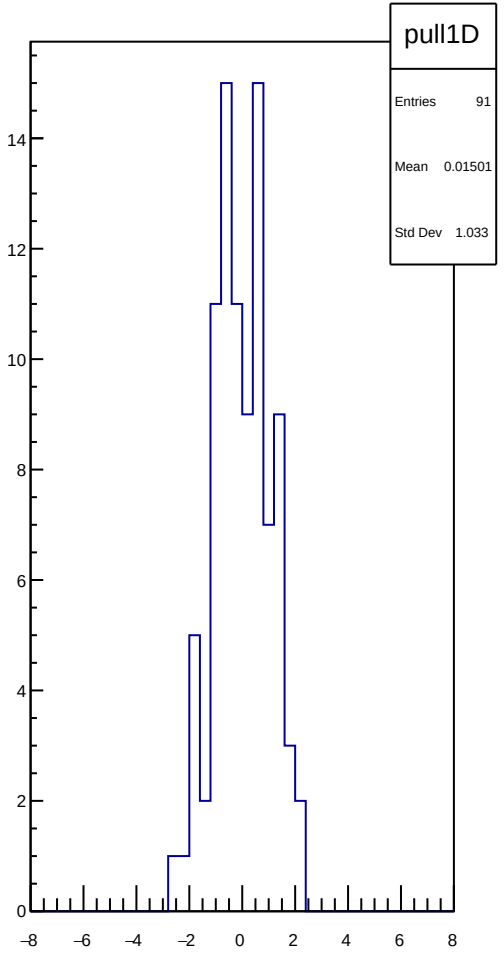

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.721e+04 / 90
p0 259.1 ± 0.1966
400
350
300
250
200

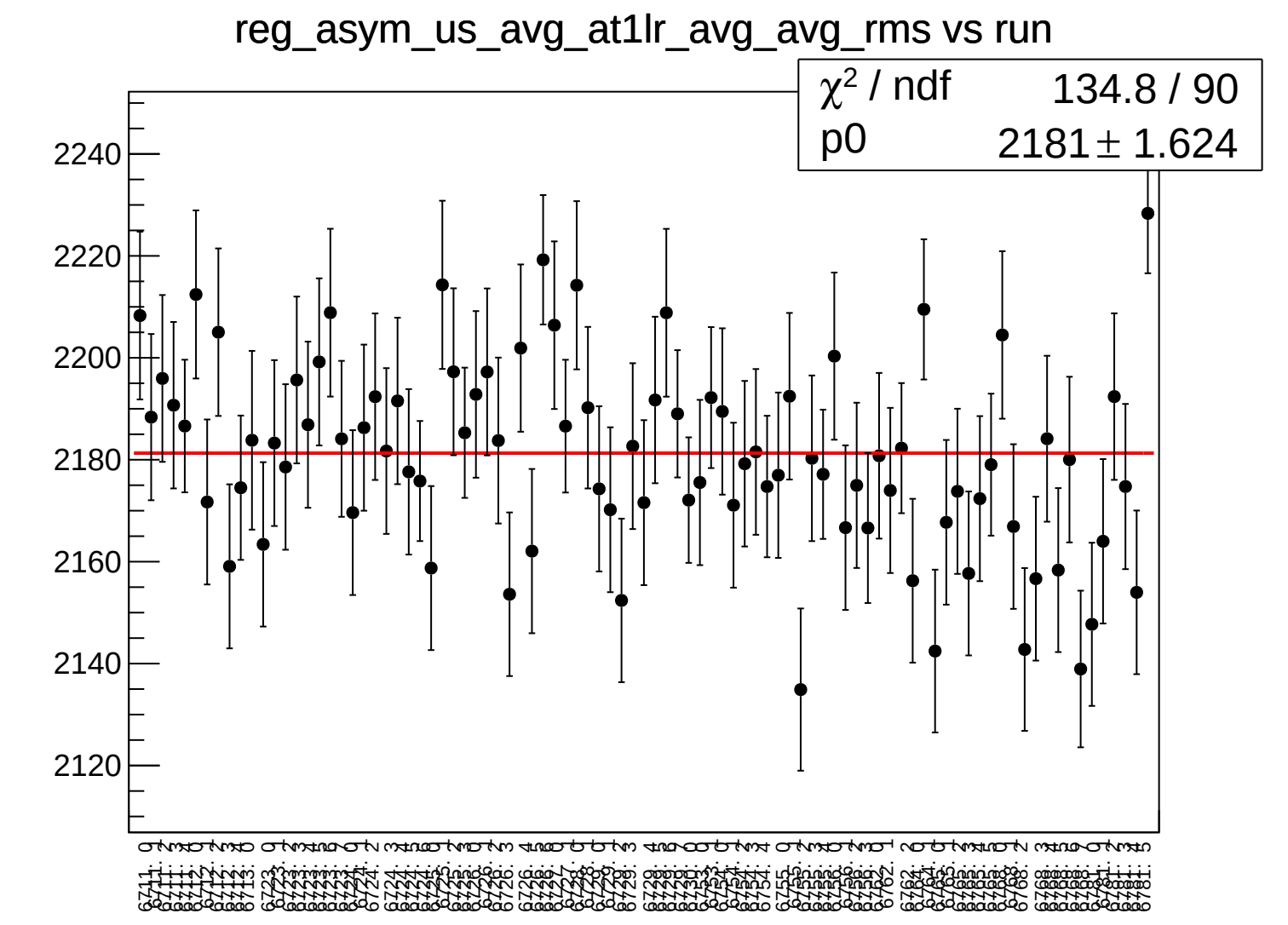

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 73.46 / 90
p0 −2.437e−14 ± 5.907e−14
pull
Entries 91
Mean 4.771
Std Dev 0

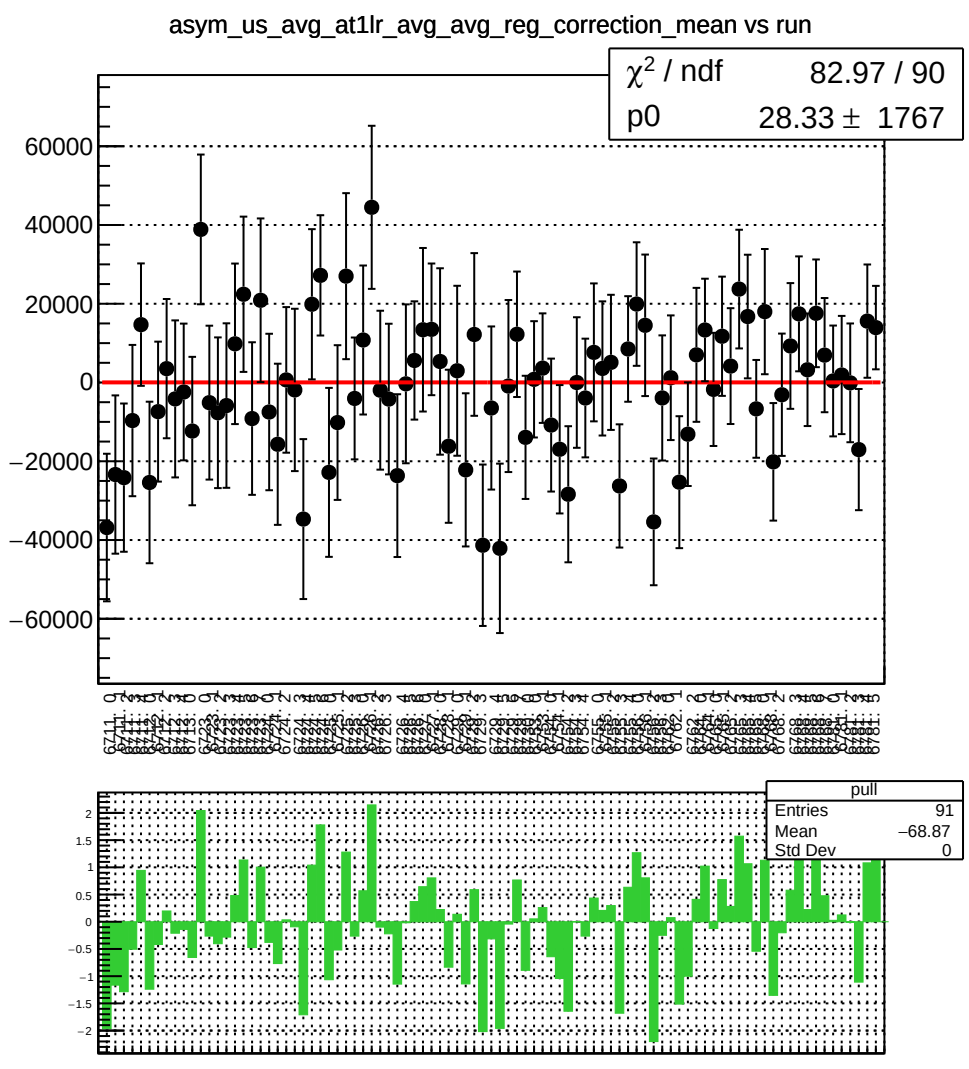

pull1D
Entries 91
Mean −0.03177
Std Dev 0.8979

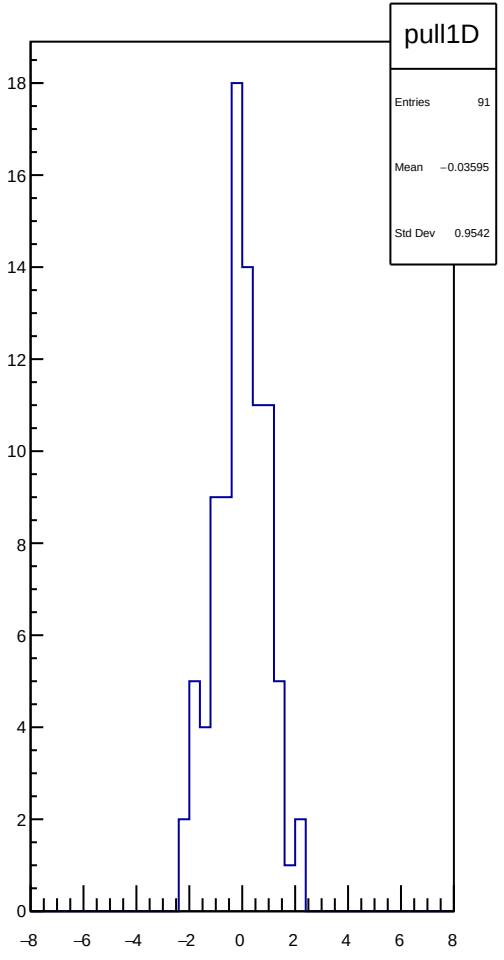

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.032e+05 / 90
p0 4.578e−11 ± 4.177e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

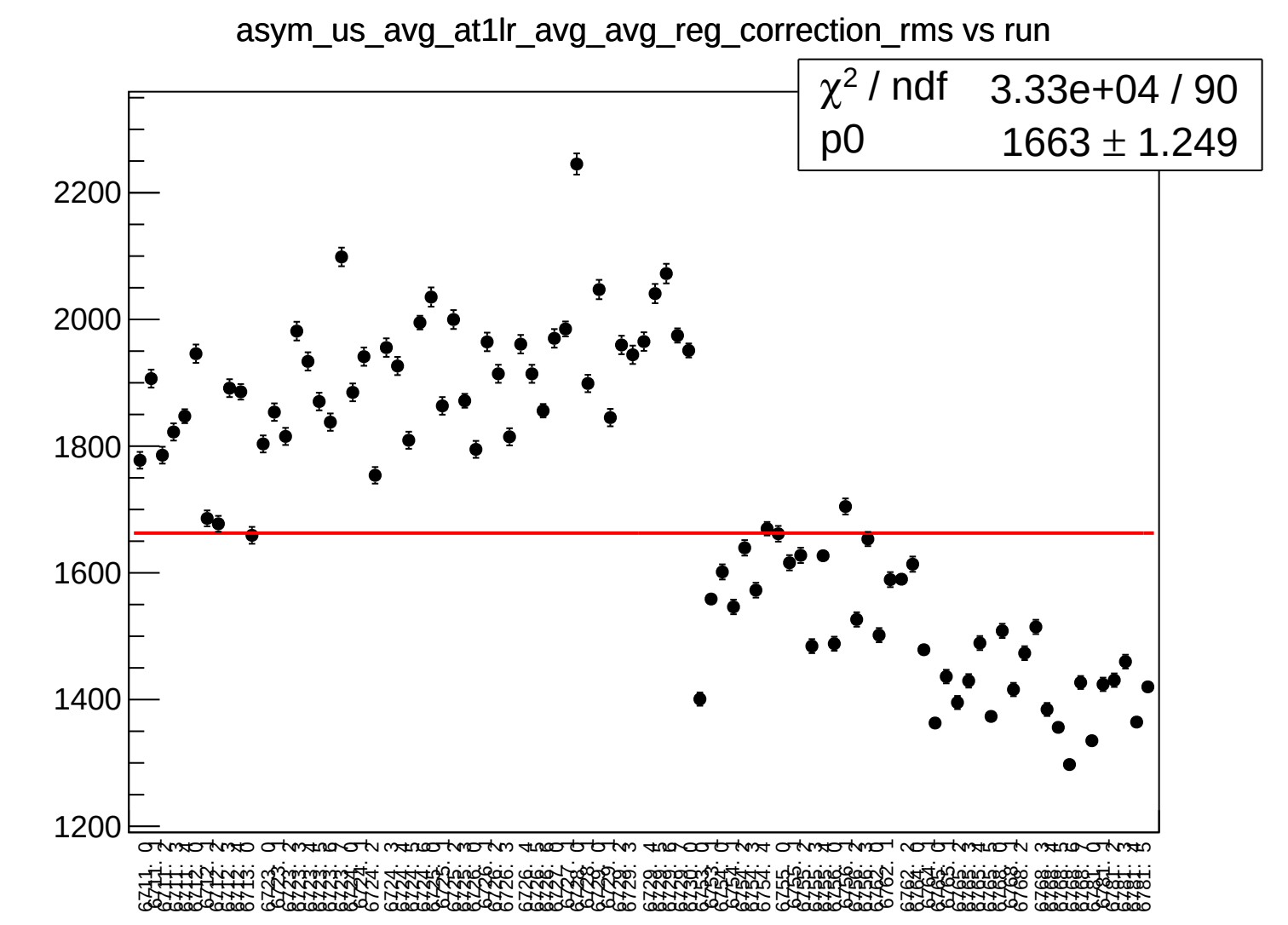

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 97.05 / 90
p0 −6025 ± 2297
×10³
pull
Entries 91
Mean −145
Std Dev 0

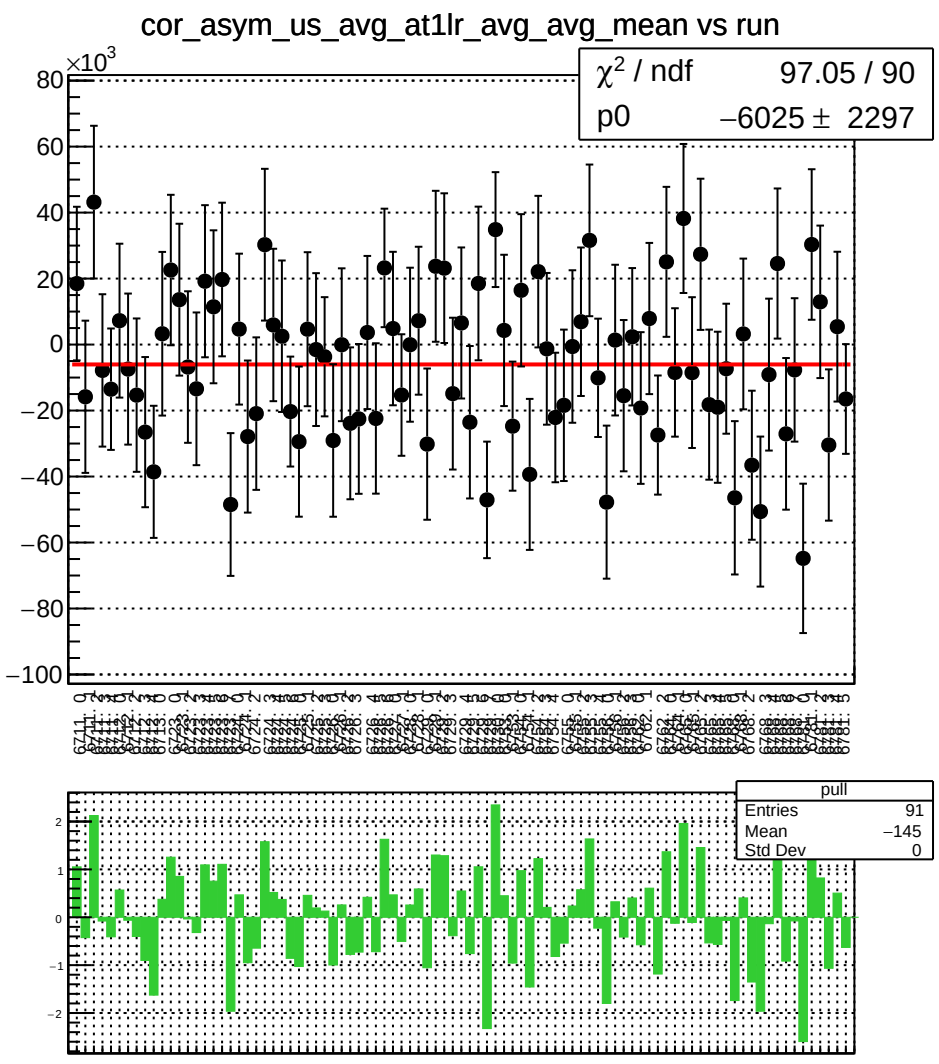

pull1D
Entries 91
Mean 0.01501
Std Dev 1.033

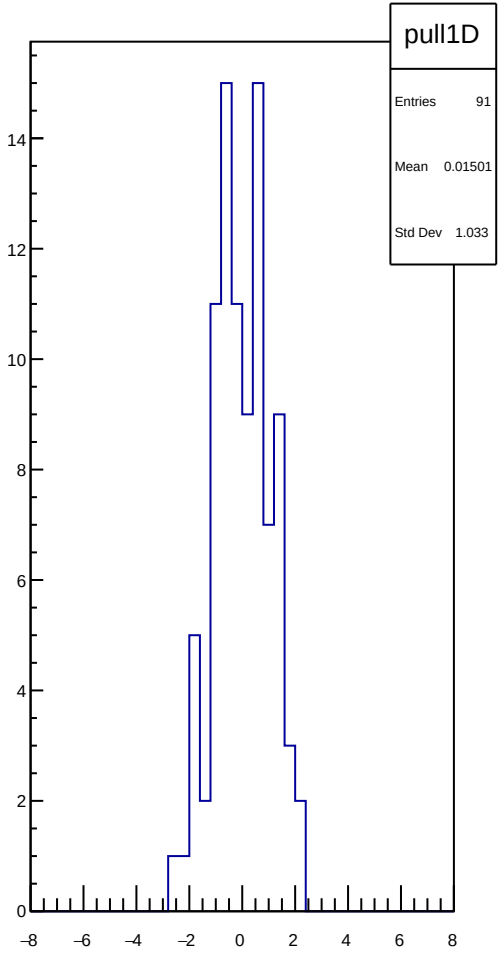

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 134.8 / 90
p0 2181 ± 1.624
2240
2220
2200
2180
2160
2140
2120

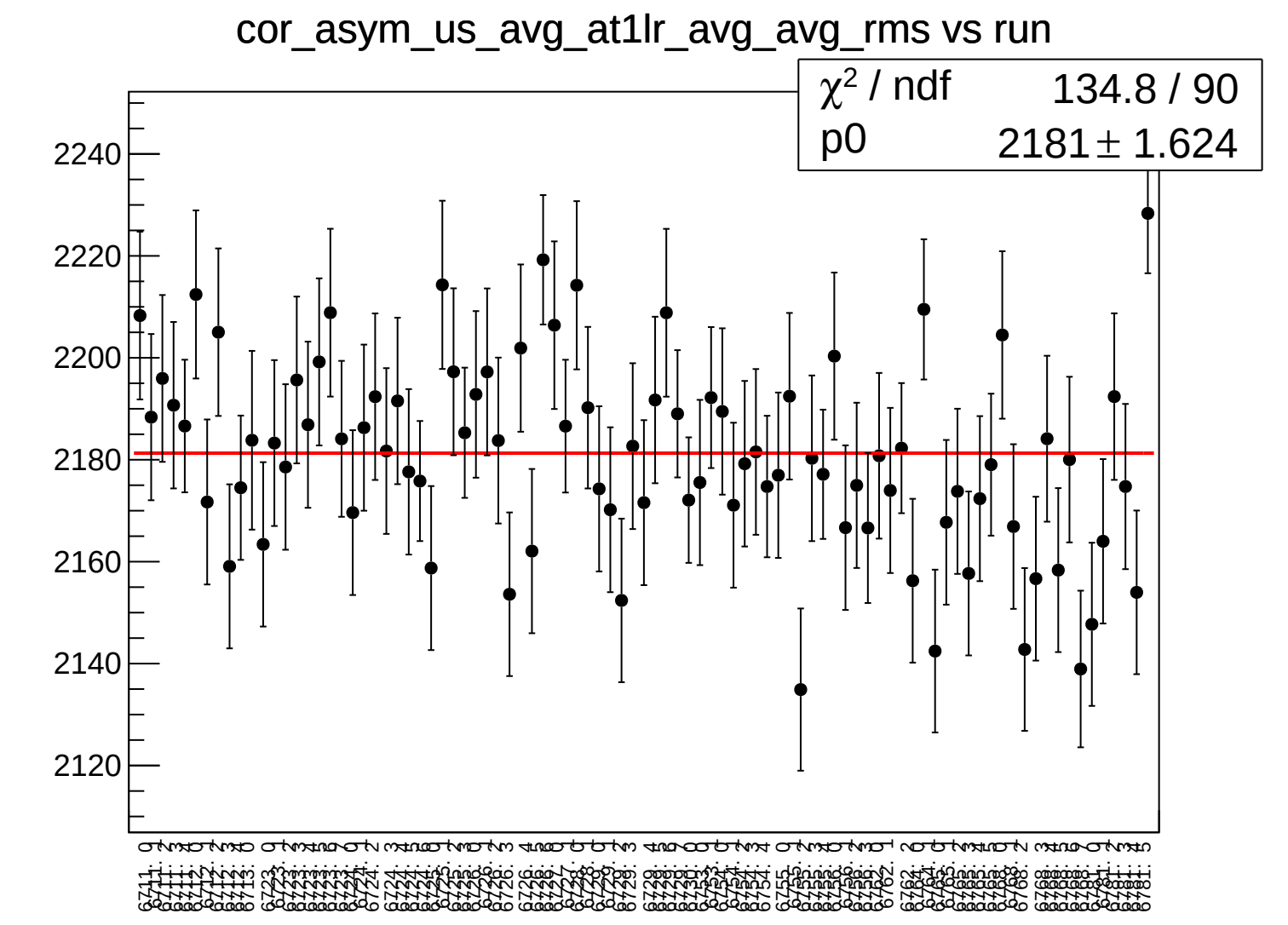

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 82.97 / 90
p0 28.33 ± 1767
pull
Entries 91
Mean −68.87
Std Dev 0

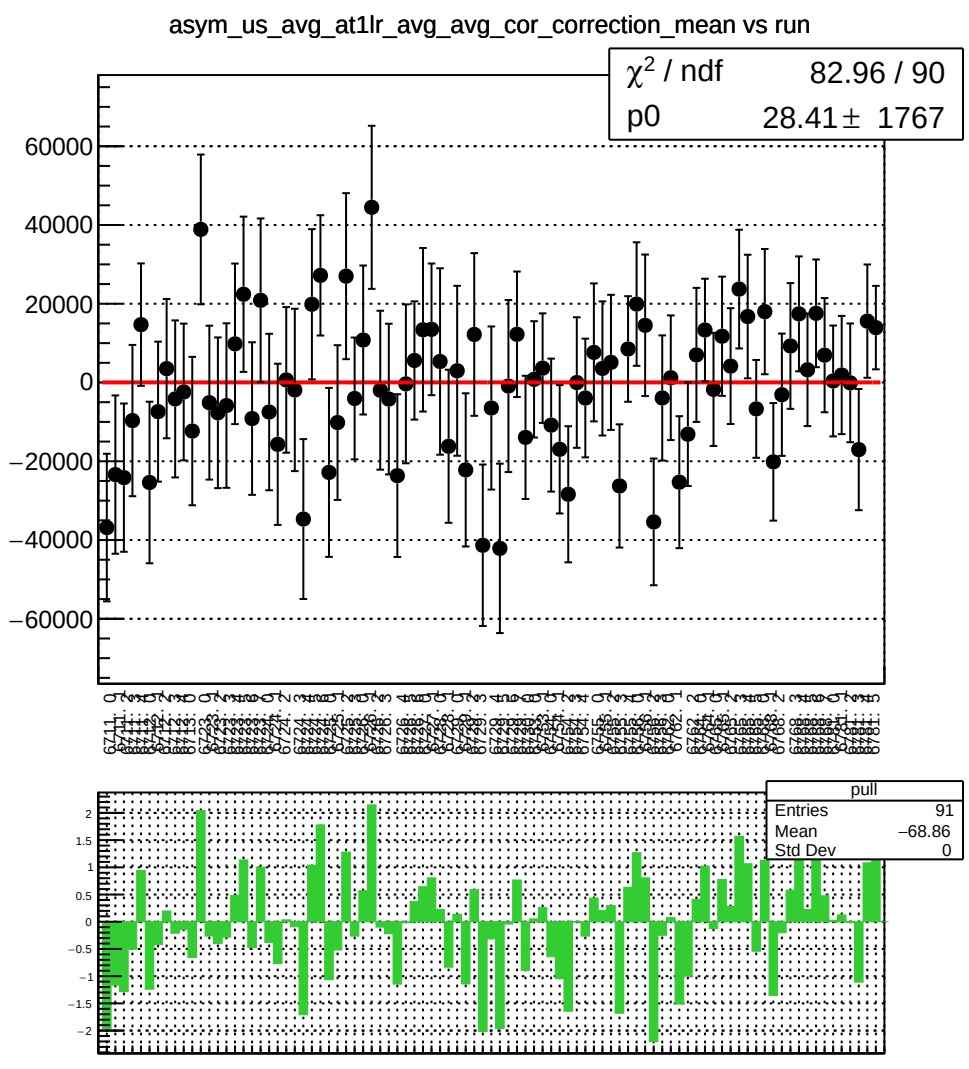

pull1D
Entries 91
Mean −0.03595
Std Dev 0.9542

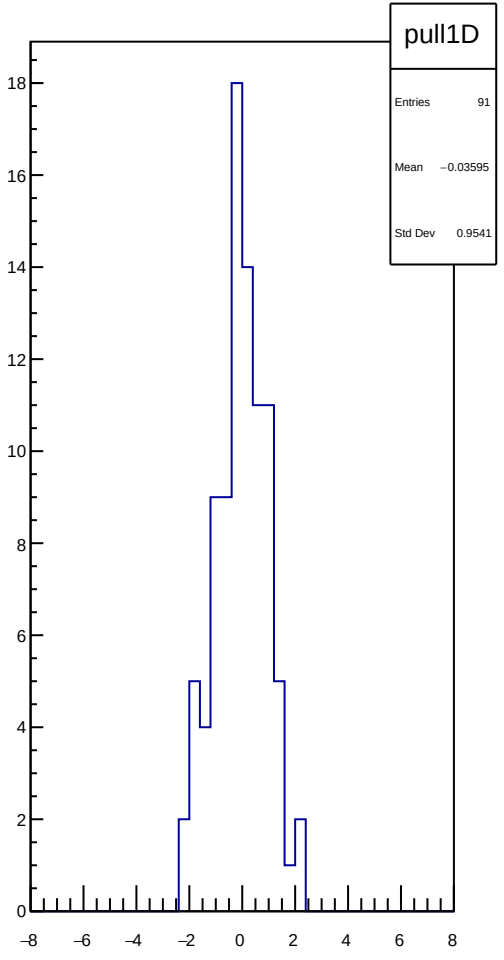

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 3.33e+04 / 90
p0 1663 ± 1.249
2200
2000
1800
1600
1400
1200

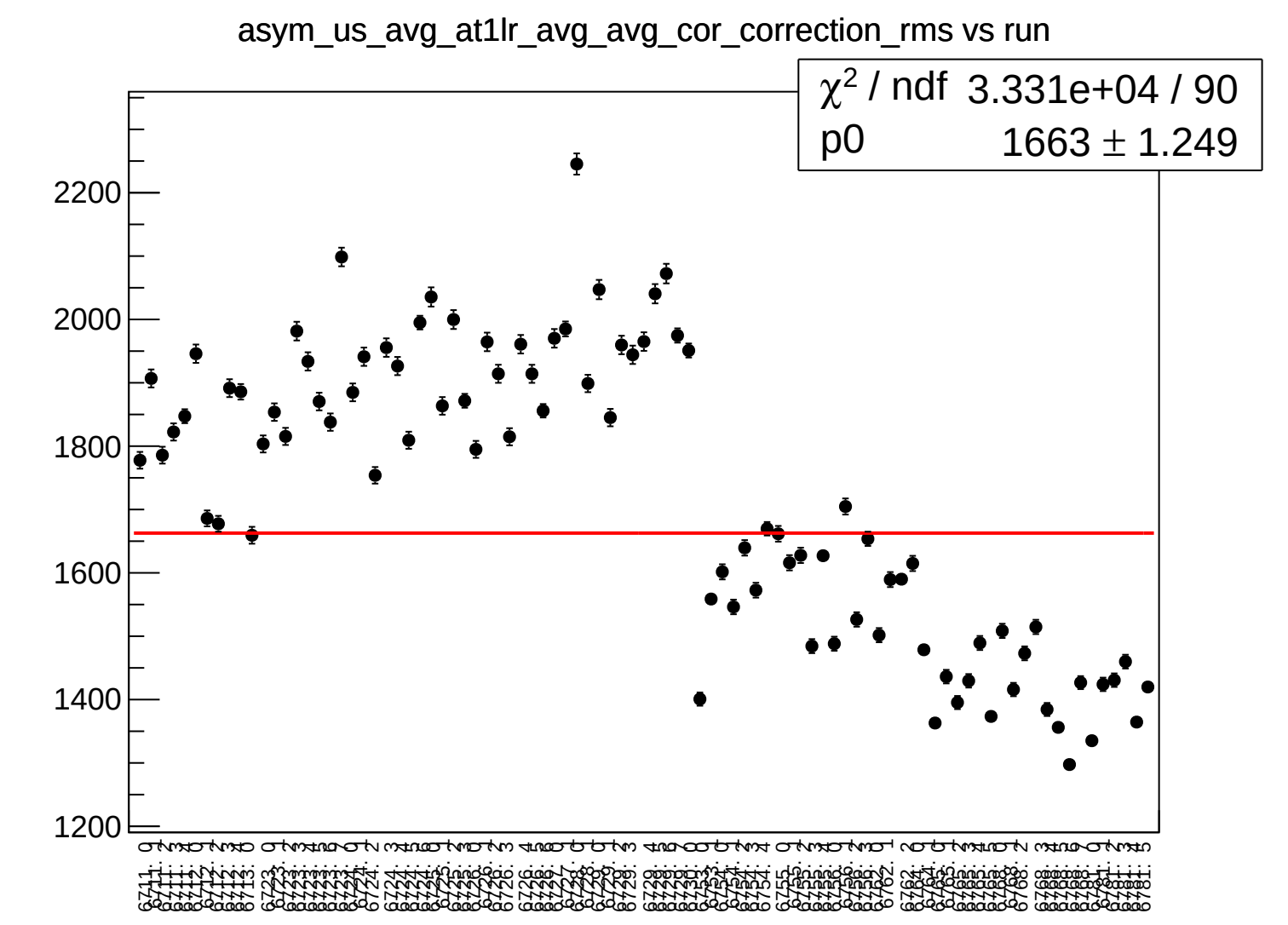

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 97.05 / 90
p0 −6025 ± 2297
×10³
pull
Entries 91
Mean −145
Std Dev 0

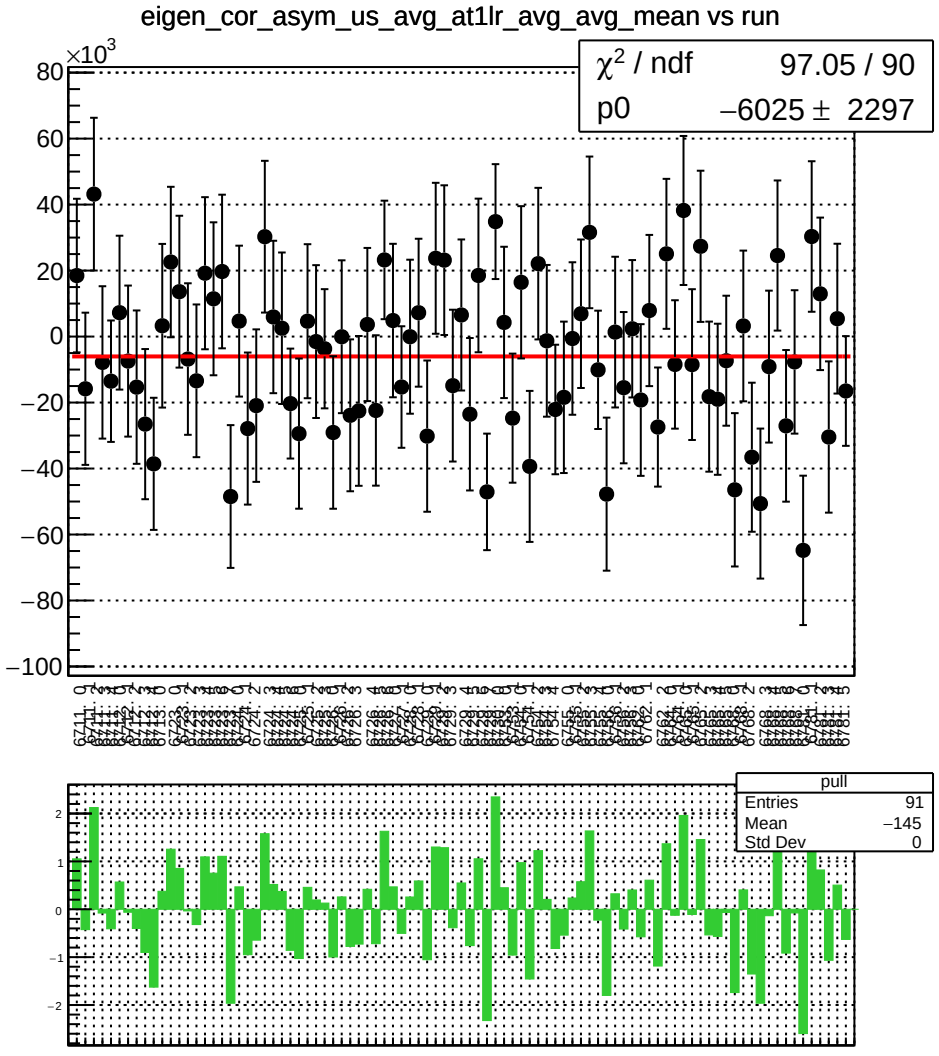

pull1D
Entries 91
Mean 0.01501
Std Dev 1.033

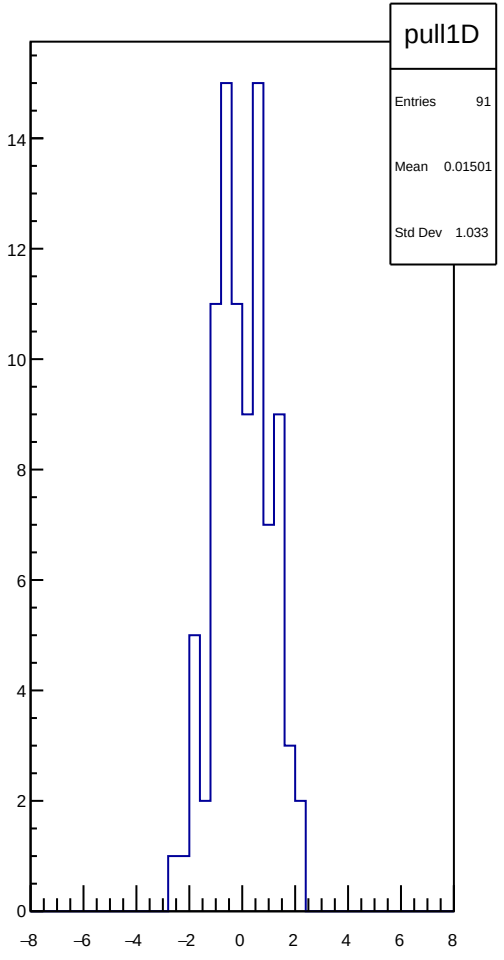

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 134.8 / 90
p0 2181 ± 1.624
2240
2220
2200
2180
2160
2140
2120

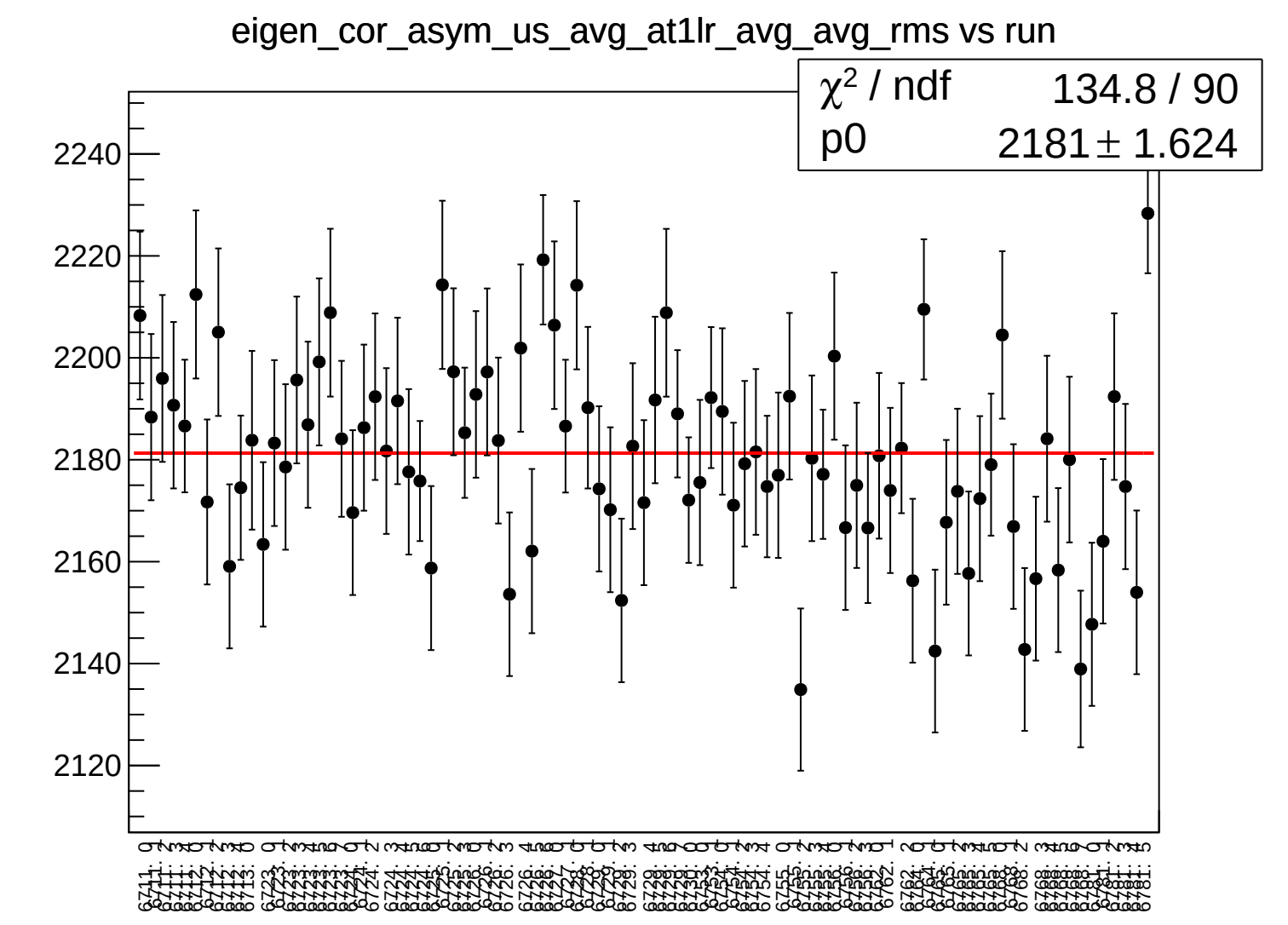

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 82.96 / 90
p0 28.41 ± 1767
pull
Entries 91
Mean −68.86
Std Dev 0

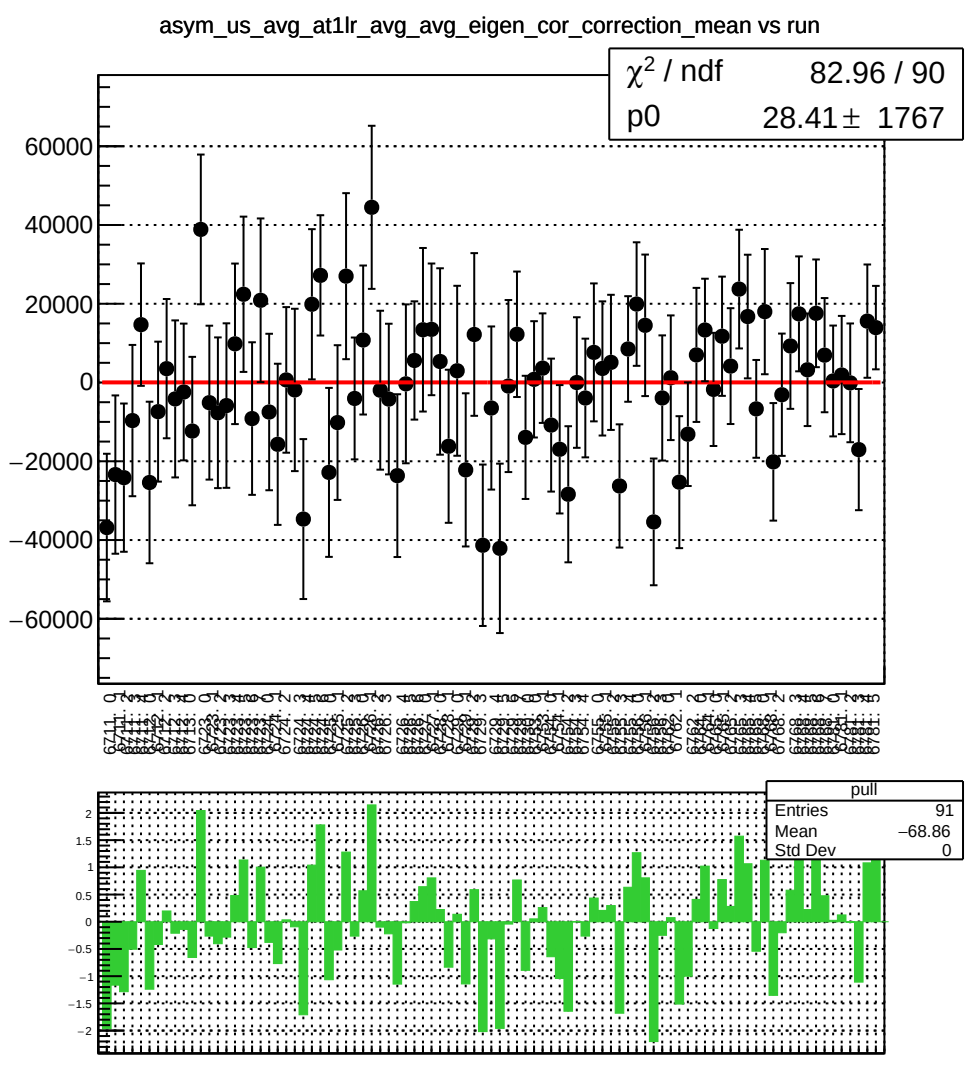

pull1D
Entries 91
Mean −0.03595
Std Dev 0.9541

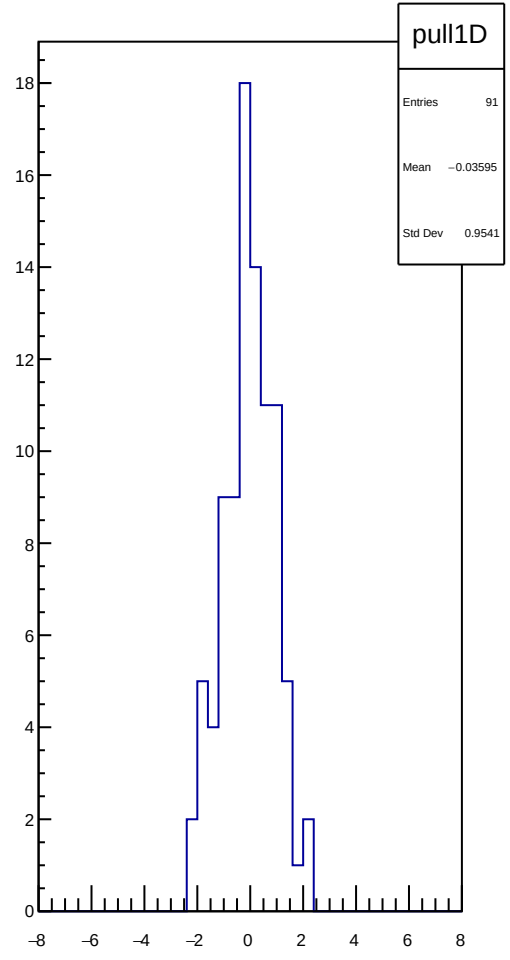

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 3.331e+04 / 90
p0 1663 ± 1.249
2200
2000
1800
1600
1400
1200

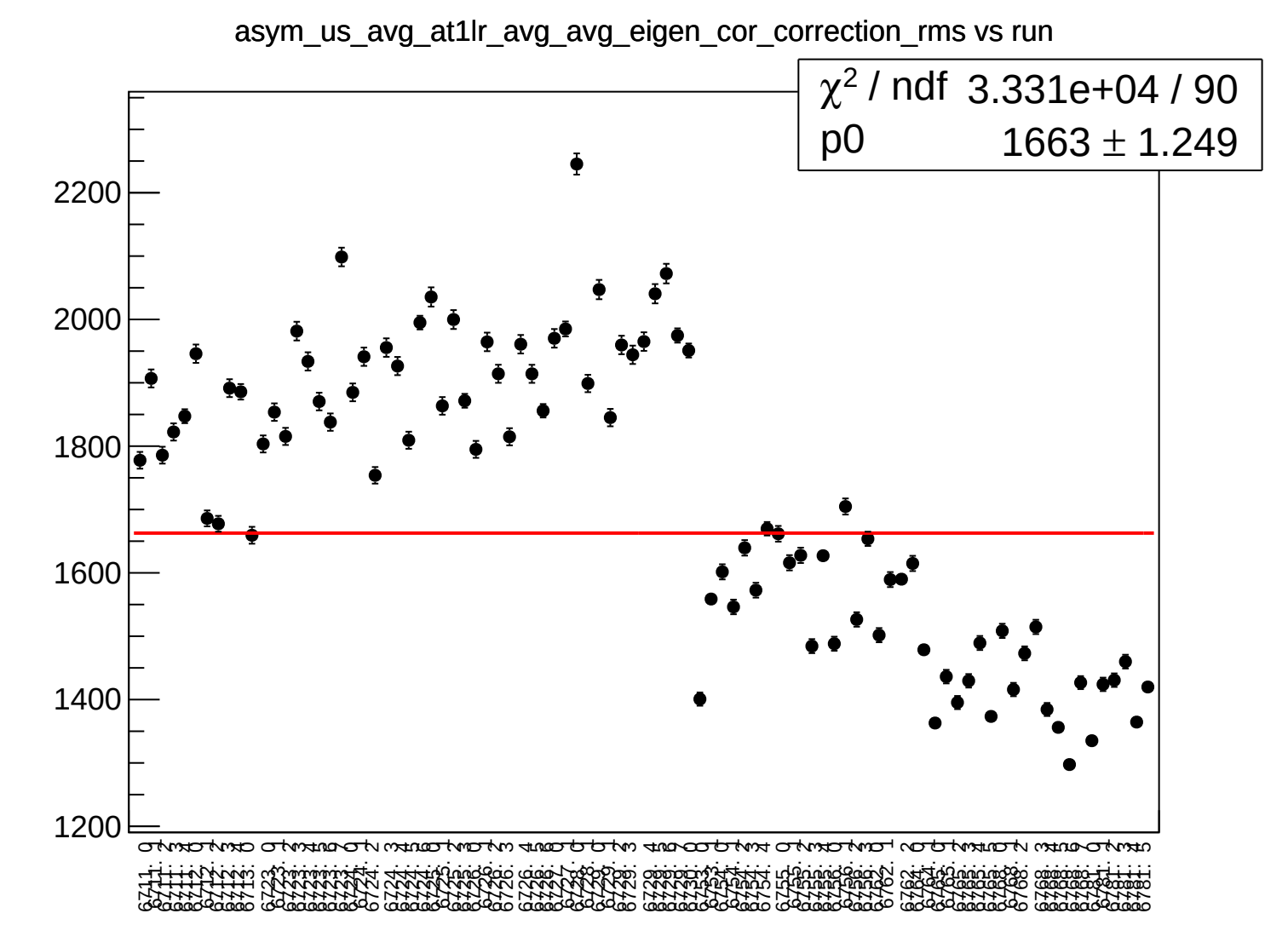

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 97.05 / 90
p0 −6025 ± 2297
pull
Entries 91
Mean −145
Std Dev 0

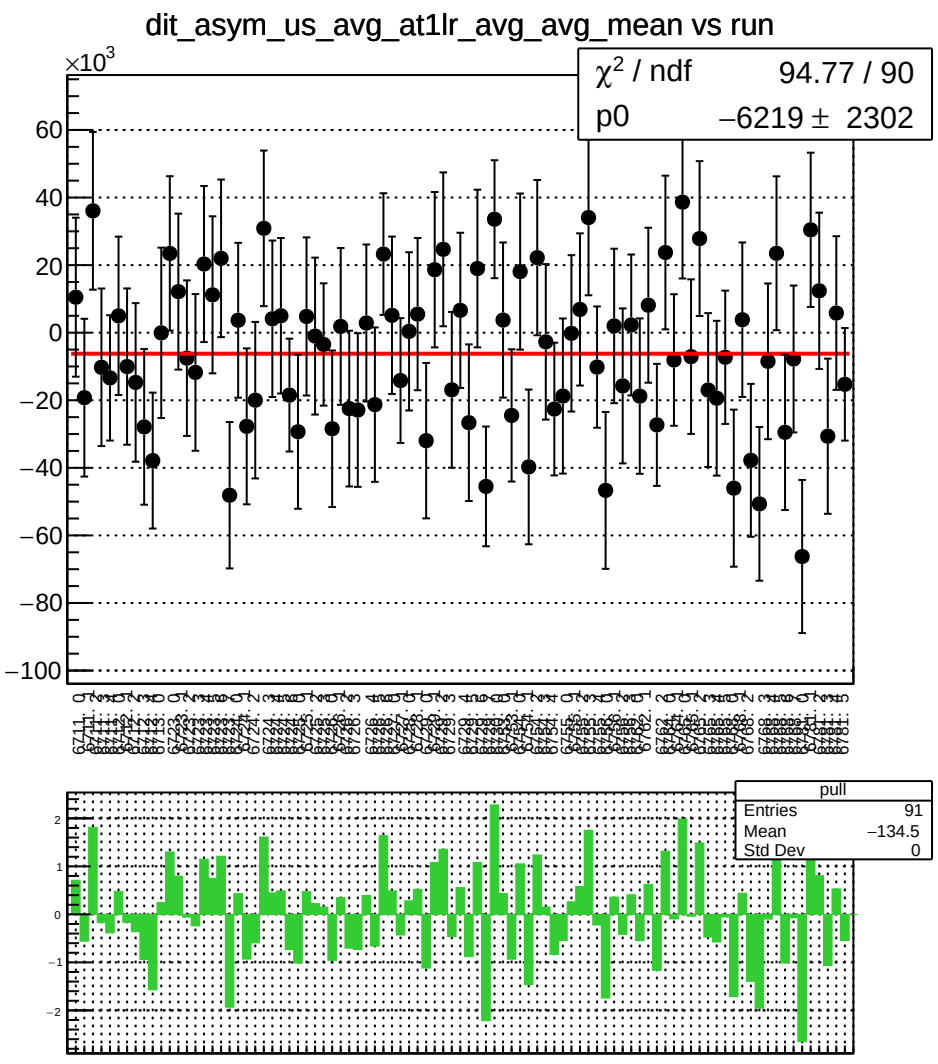

pull1D
Entries 91
Mean 0.01501
Std Dev 1.033

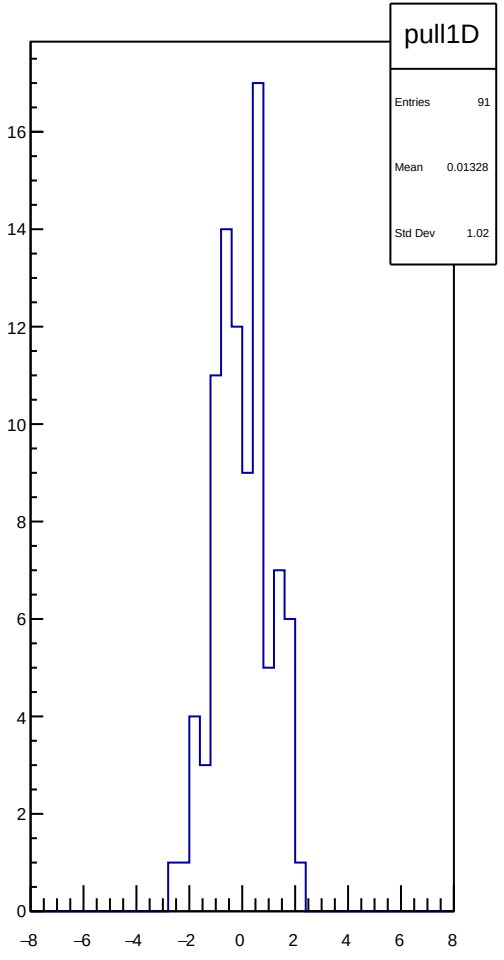

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 134.8 / 90
p0 2181 ± 1.624
2240
2220
2200
2180
2160
2140
2120

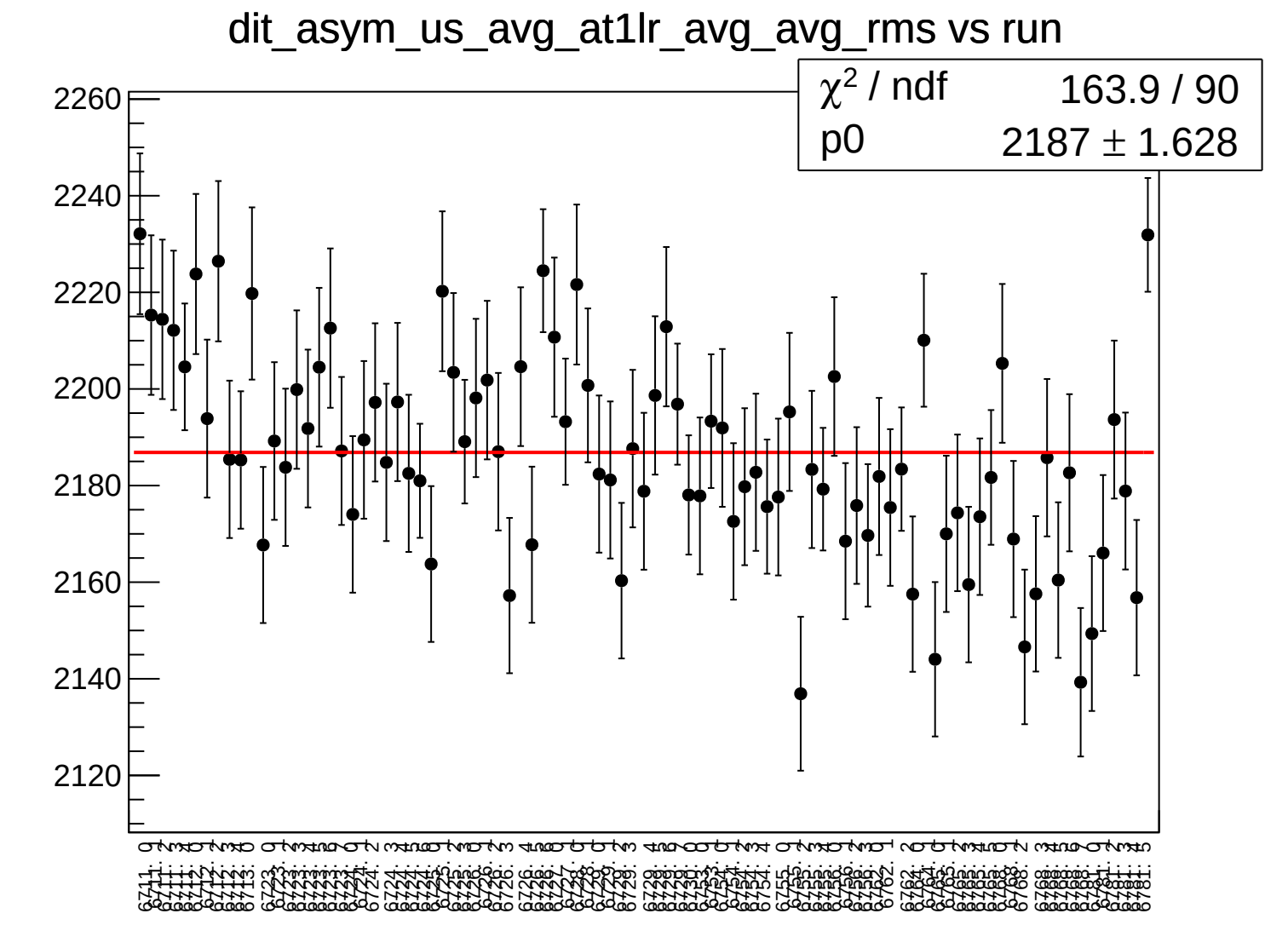

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.96 / 90
p0 28.41 ± 1767
pull
Entries 91
Mean −68.86
Std Dev 0

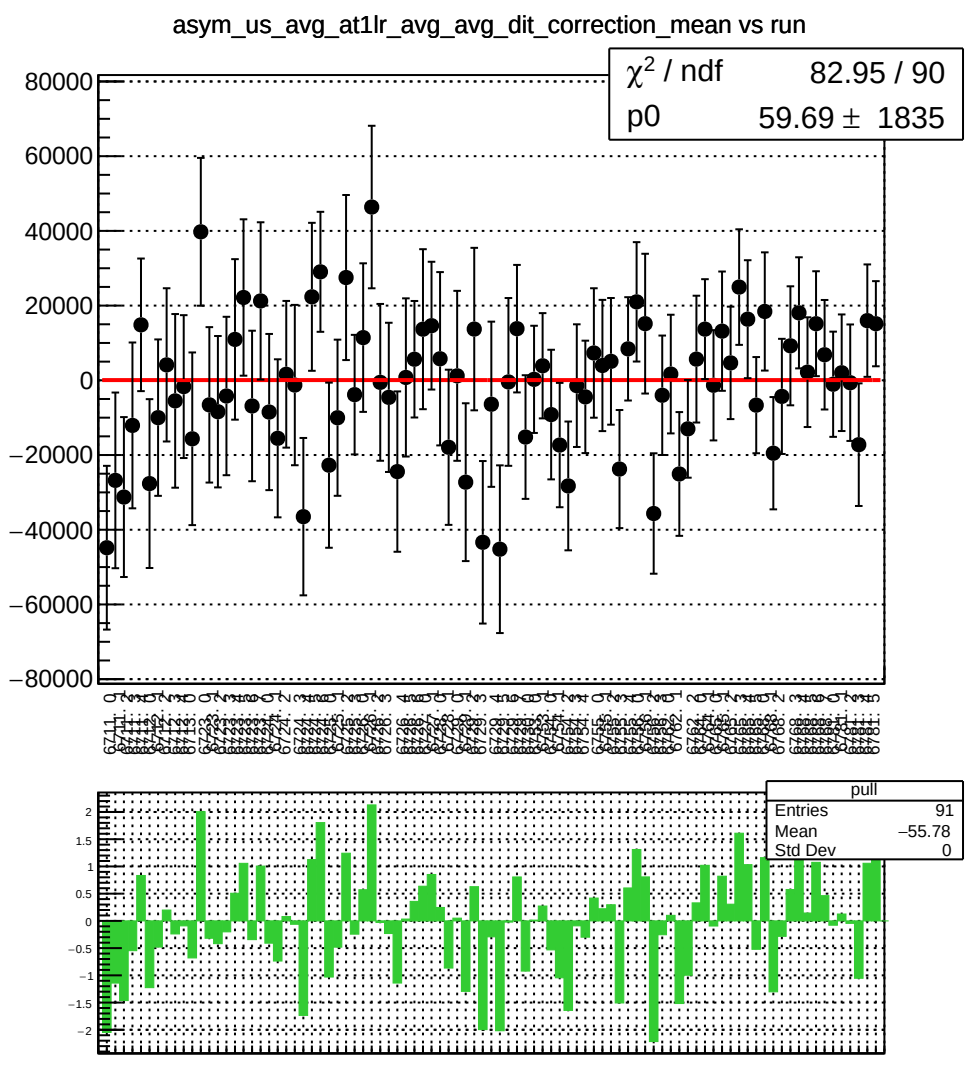

pull1D
Entries 91
Mean −0.03595
Std Dev 0.9541

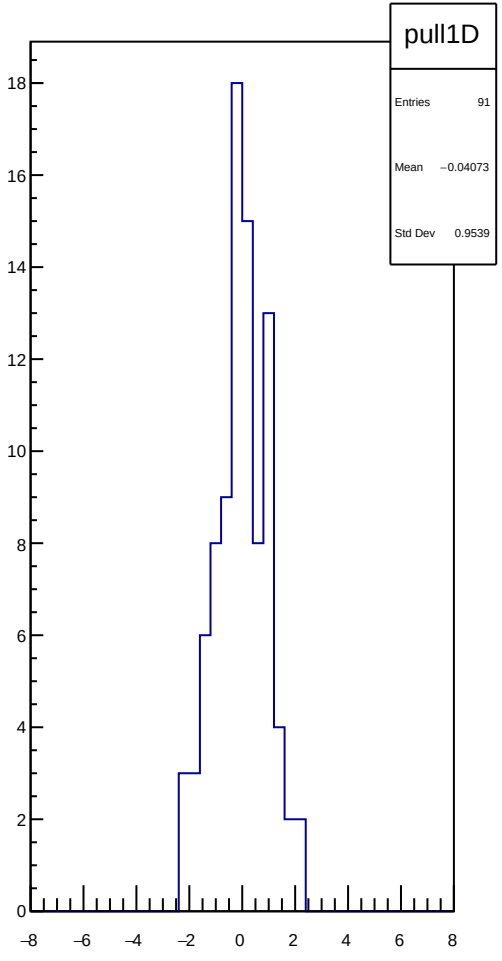

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.331e+04 / 90
p0 1663 ± 1.249
2200
2000
1800
1600
1400
1200

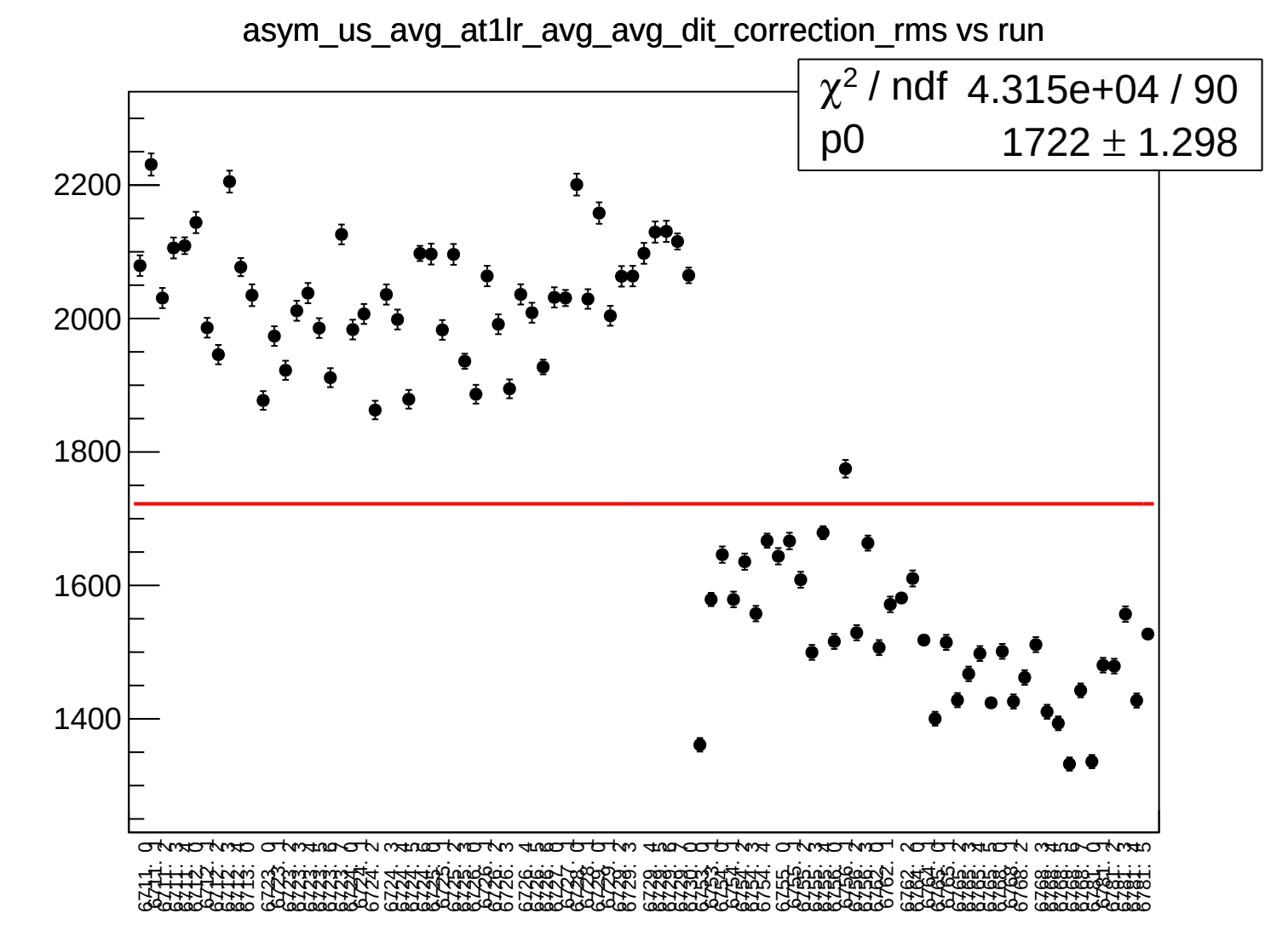

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 94.77 / 90
p0 −6219 ± 2302
pull
Entries 91
Mean −134.5
Std Dev 0

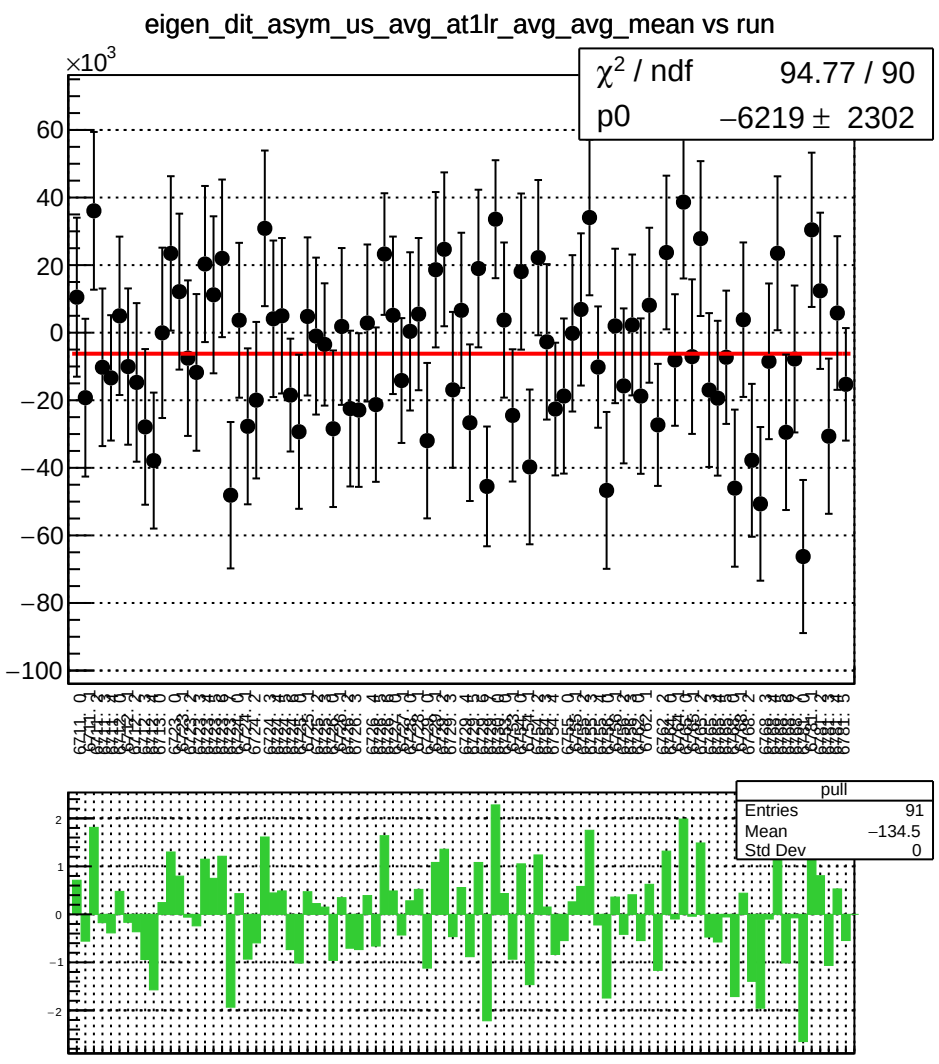

pull1D
Entries 91
Mean 0.01328
Std Dev 1.02

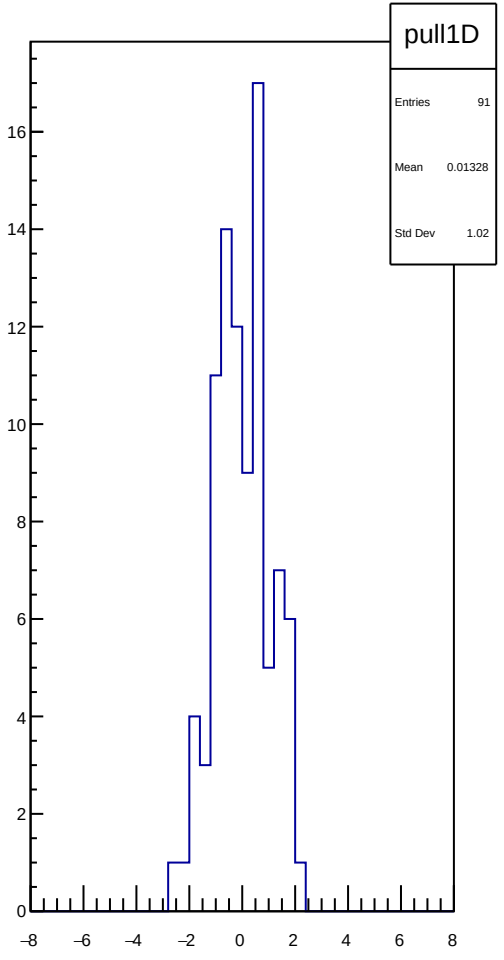

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 163.9 / 90
p0 2187 ± 1.628
2260
2240
2220
2200
2180
2160
2140
2120

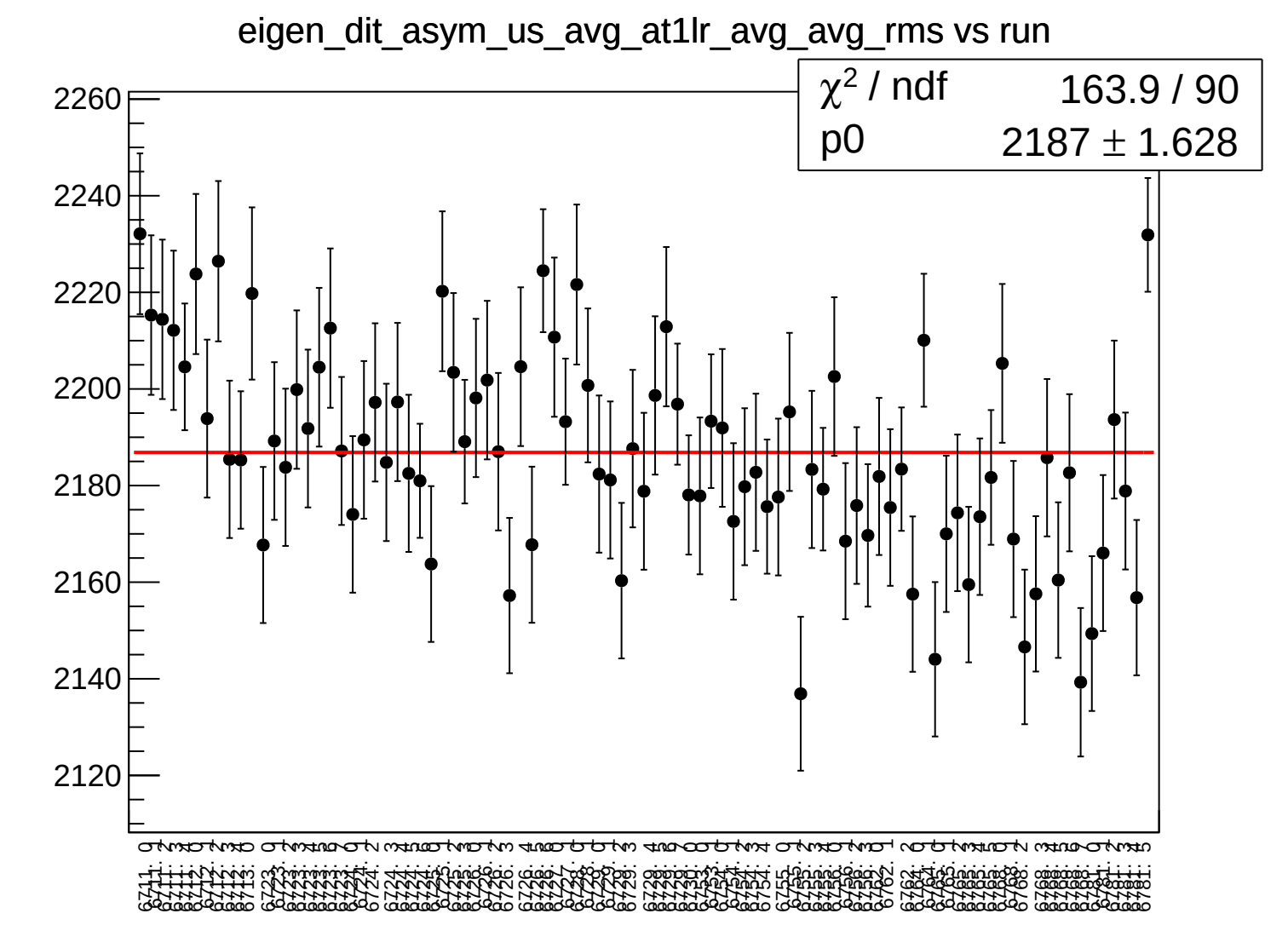

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 82.95 / 90
p0 59.69 ± 1835
pull
Entries 91
Mean −55.78
Std Dev 0

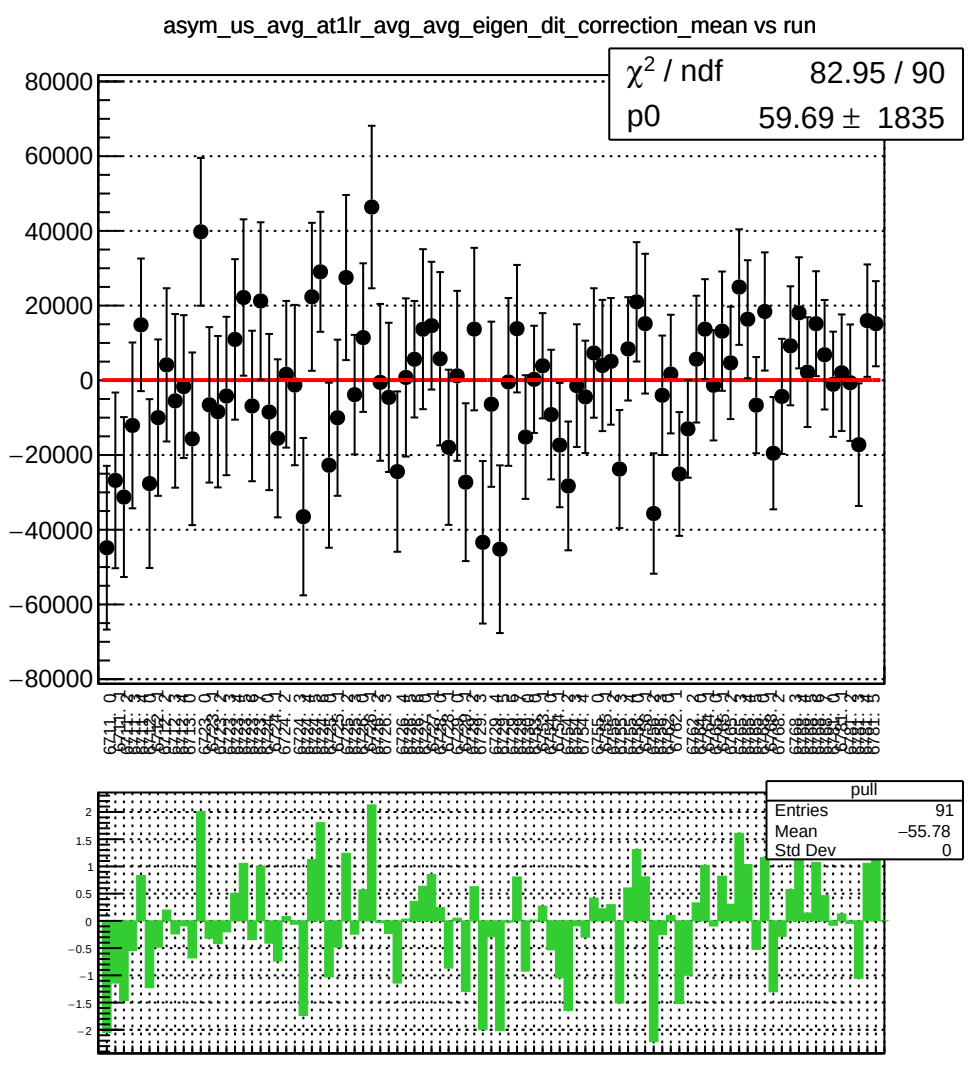

pull1D
Entries 91
Mean −0.04073
Std Dev 0.9539

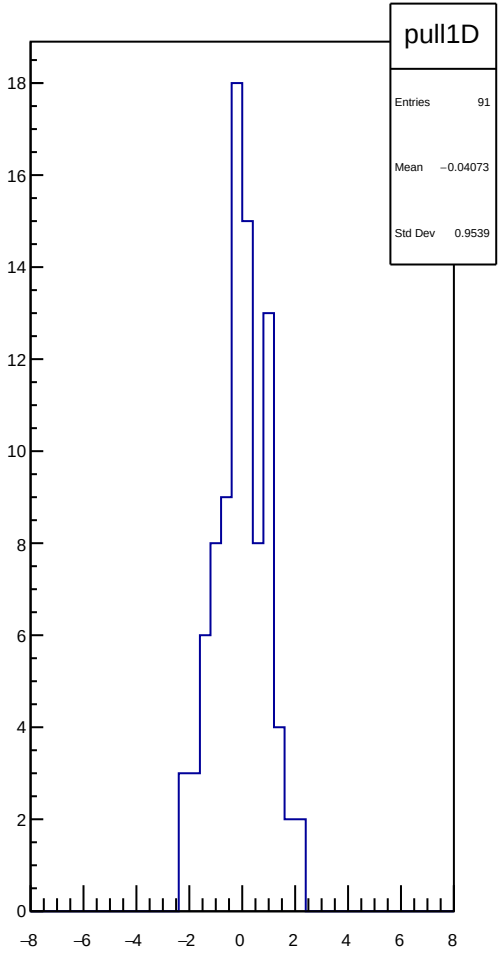

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 4.315e+04 / 90
p0 1722 ± 1.298
2200
2000
1800
1600
1400

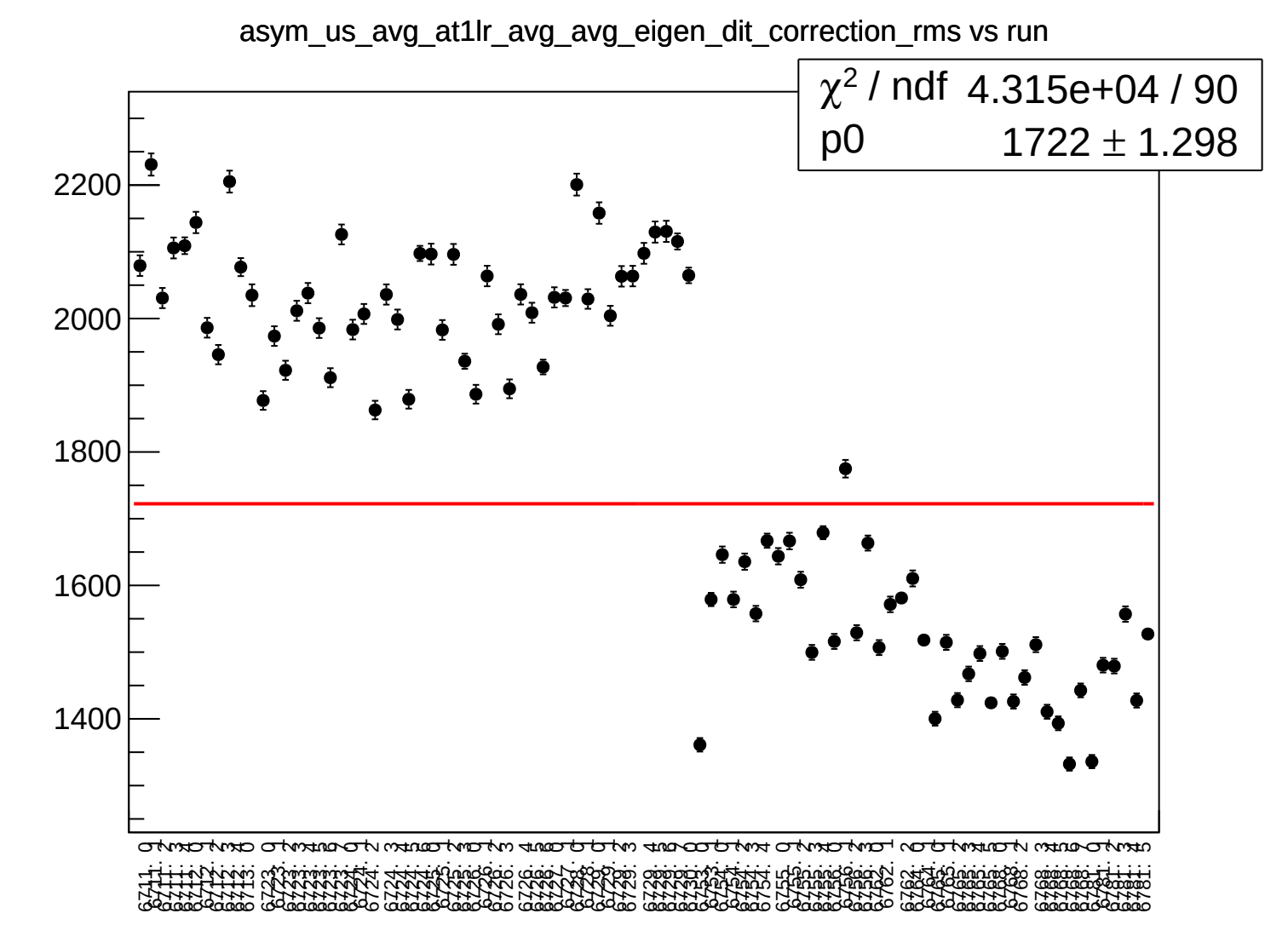

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 94.77 / 90
p0 −6219 ± 2302
pull
Entries 91
Mean −134.5
Std Dev 0

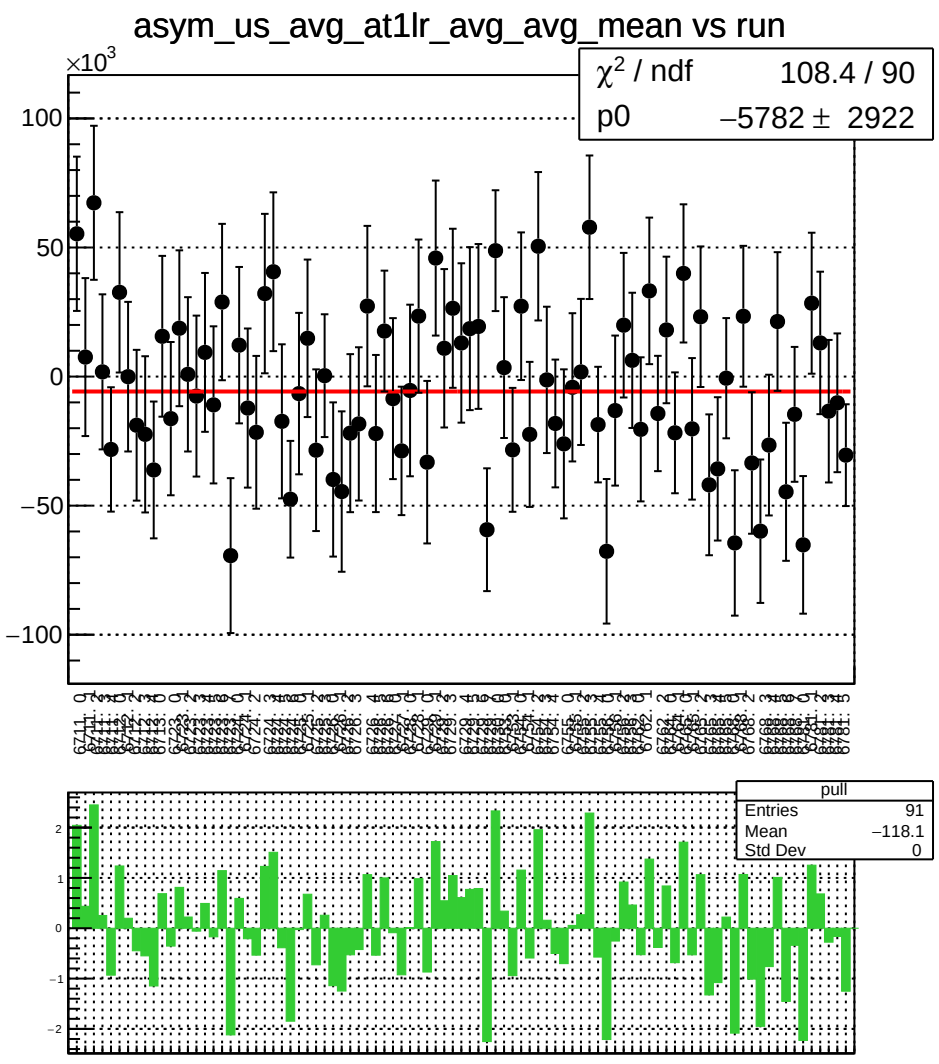

pull1D
Entries 91
Mean 0.01328
Std Dev 1.02

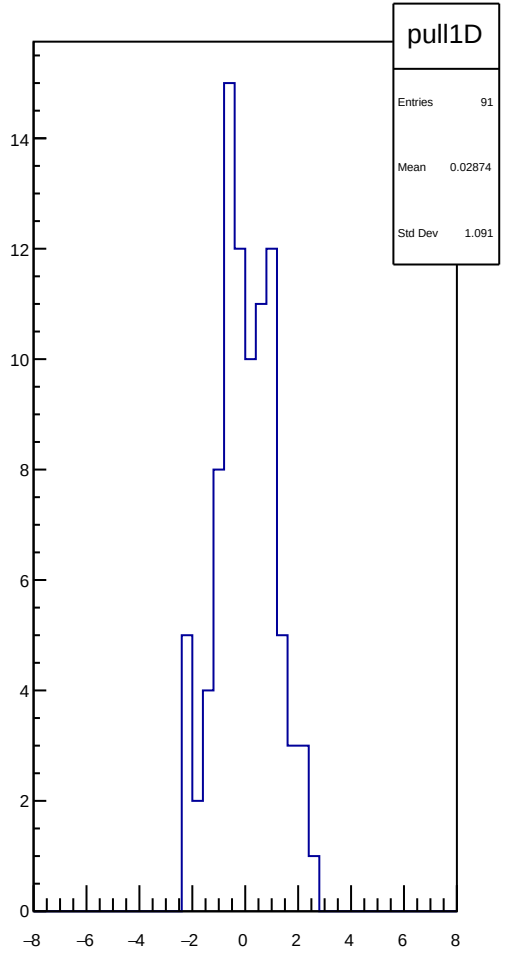

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 163.9 / 90
p0 2187 ± 1.628
2260
2240
2220
2200
2180
2160
2140
2120

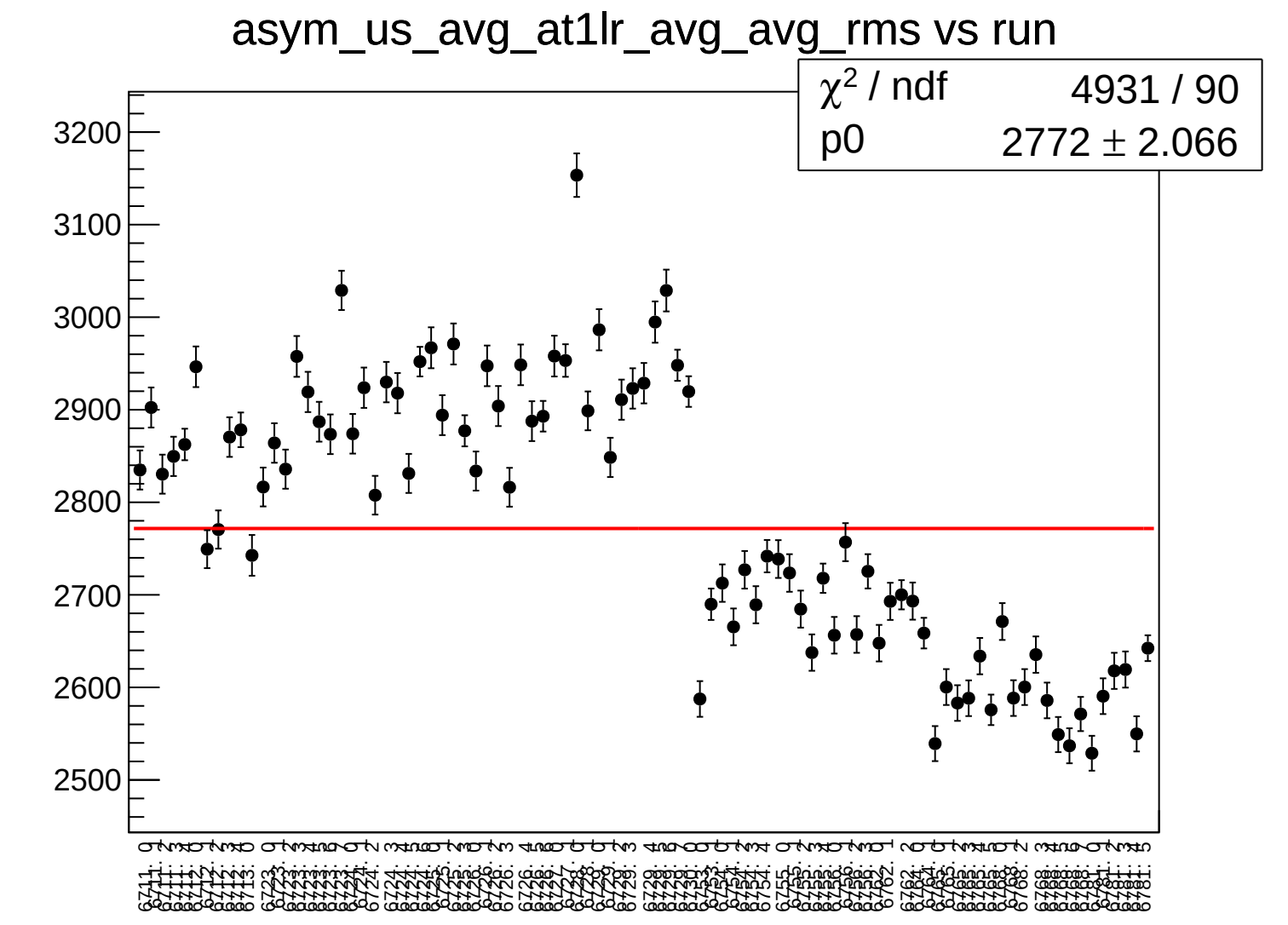

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 82.95 / 90
p0 59.69 ± 1835
pull
Entries 91
Mean −55.78
Std Dev 0

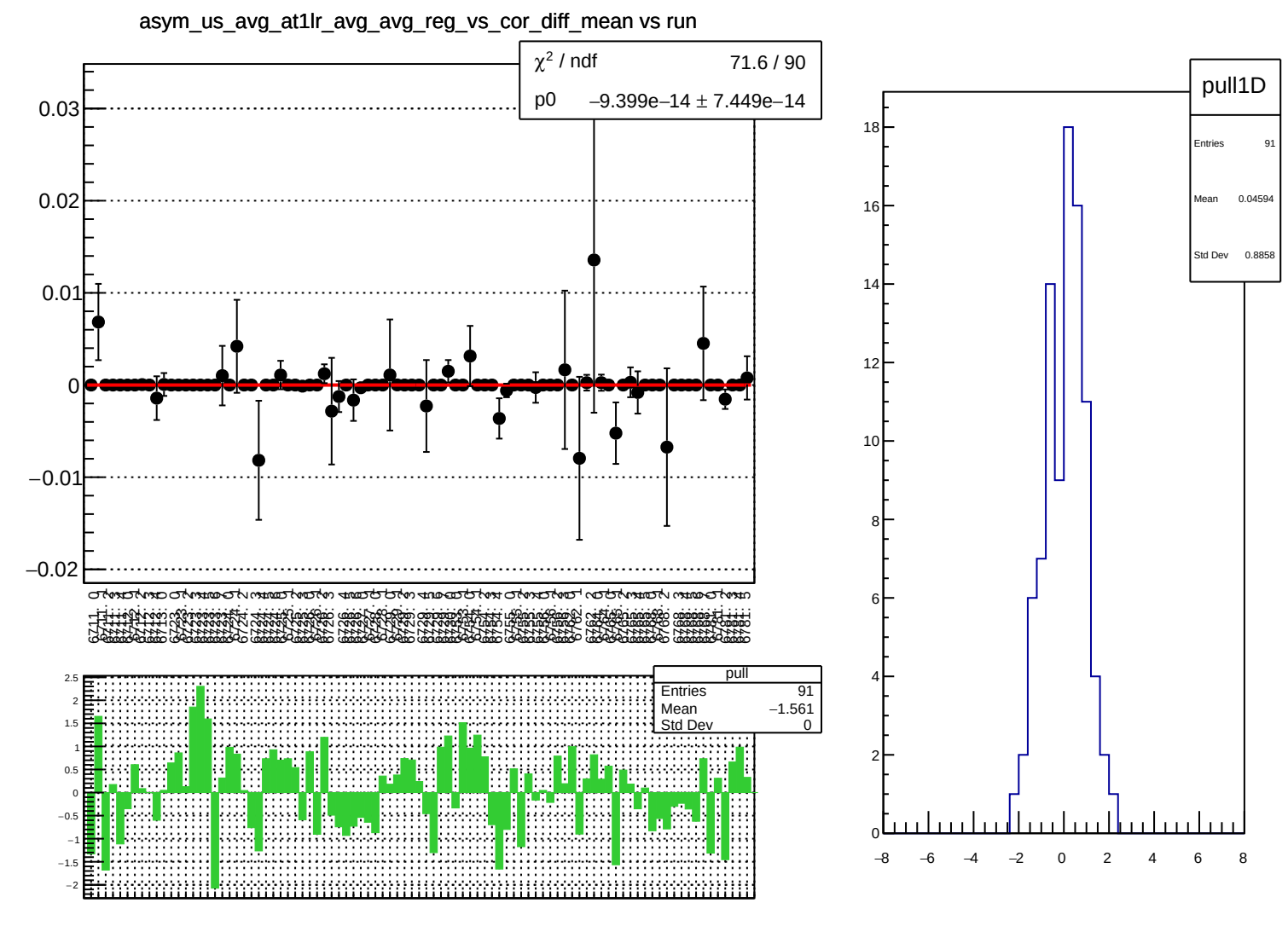

pull1D
Entries 91
Mean −0.04073
Std Dev 0.9539

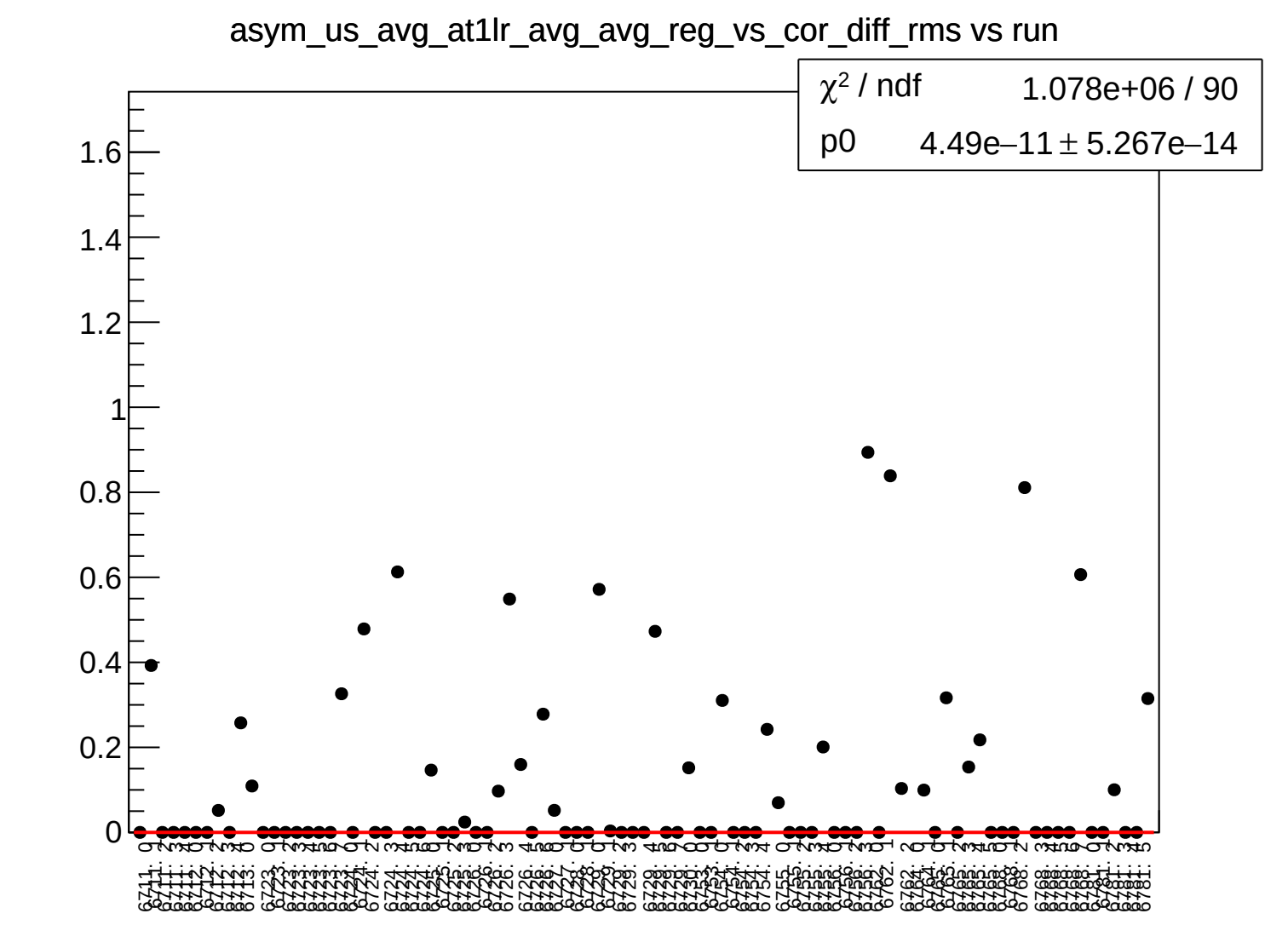

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.315e+04 / 90
p0 1722 ± 1.298
2200
2000
1800
1600
1400

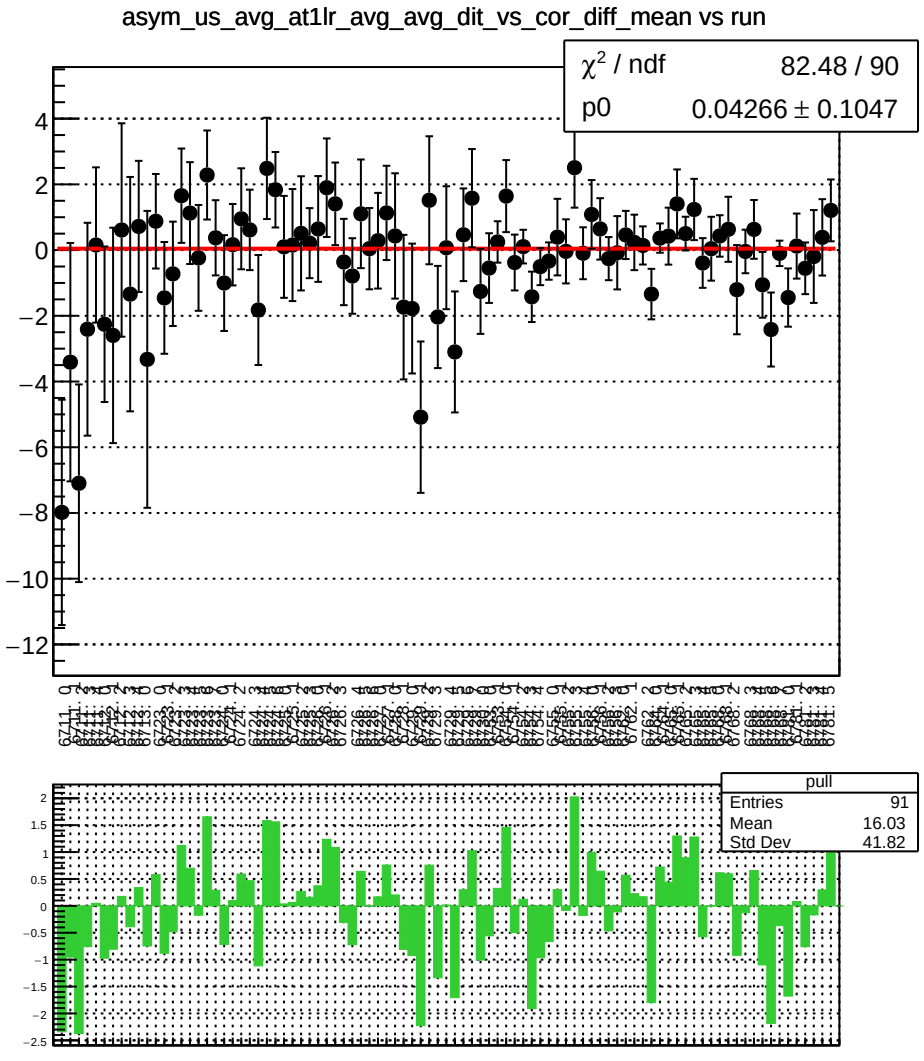

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 108.4 / 90
p0 −5782 ± 2922
100
50
0
−50
−100
pull
Entries 91
Mean −118.1
Std Dev 0
2
1
0
−1
−2

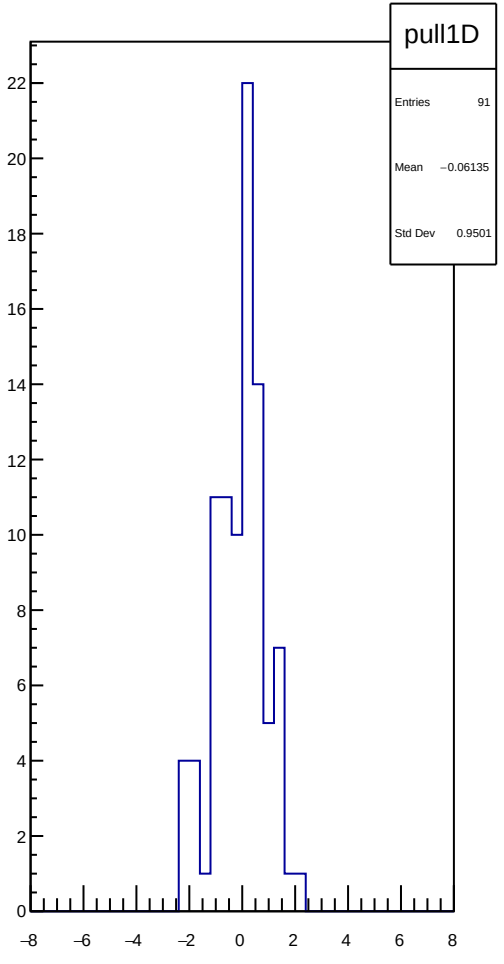

pull1D
Entries 91
Mean 0.02874
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

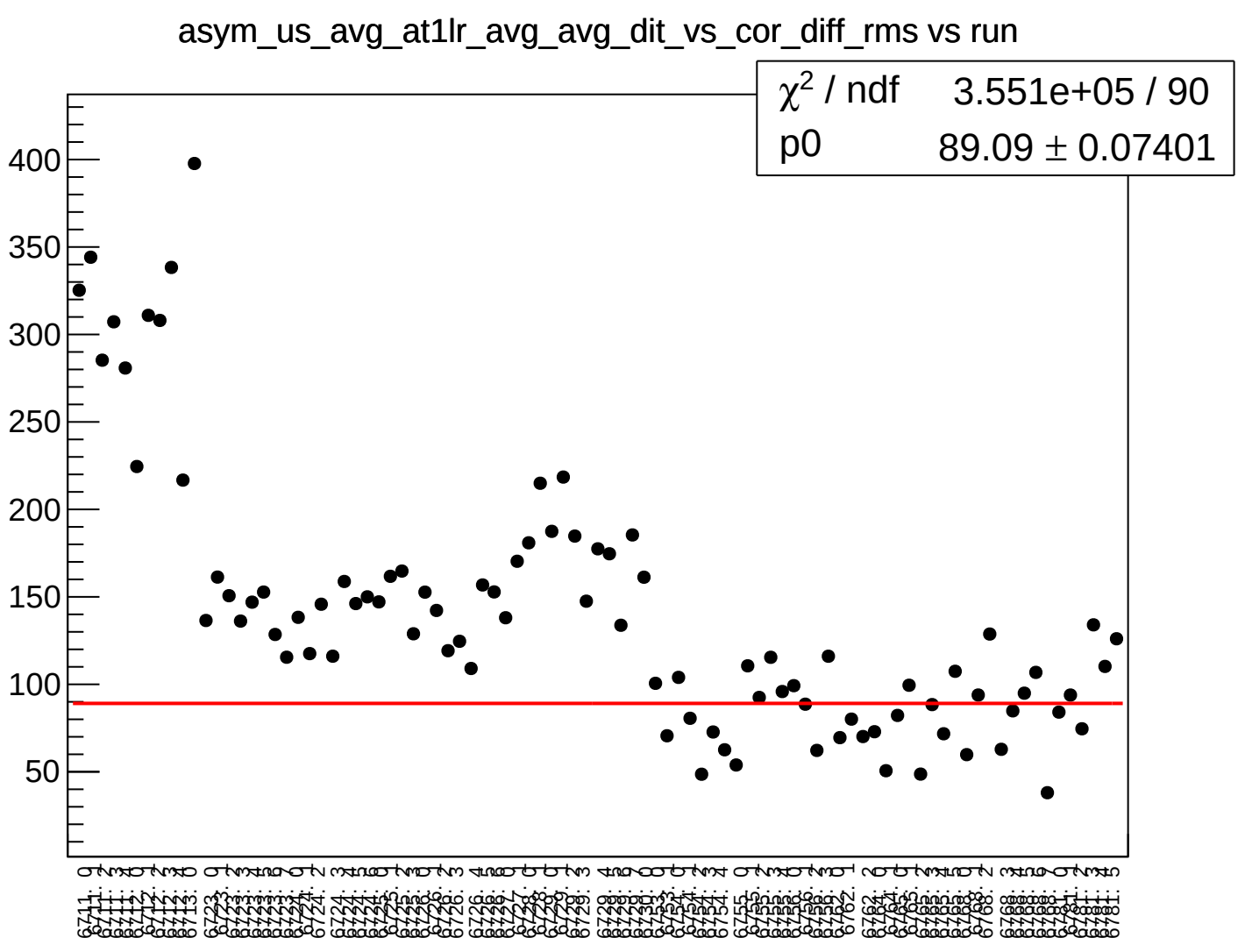

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 4931 / 90
p0 2772 ± 2.066
3200
3100
3000
2900
2800
2700
2600
2500

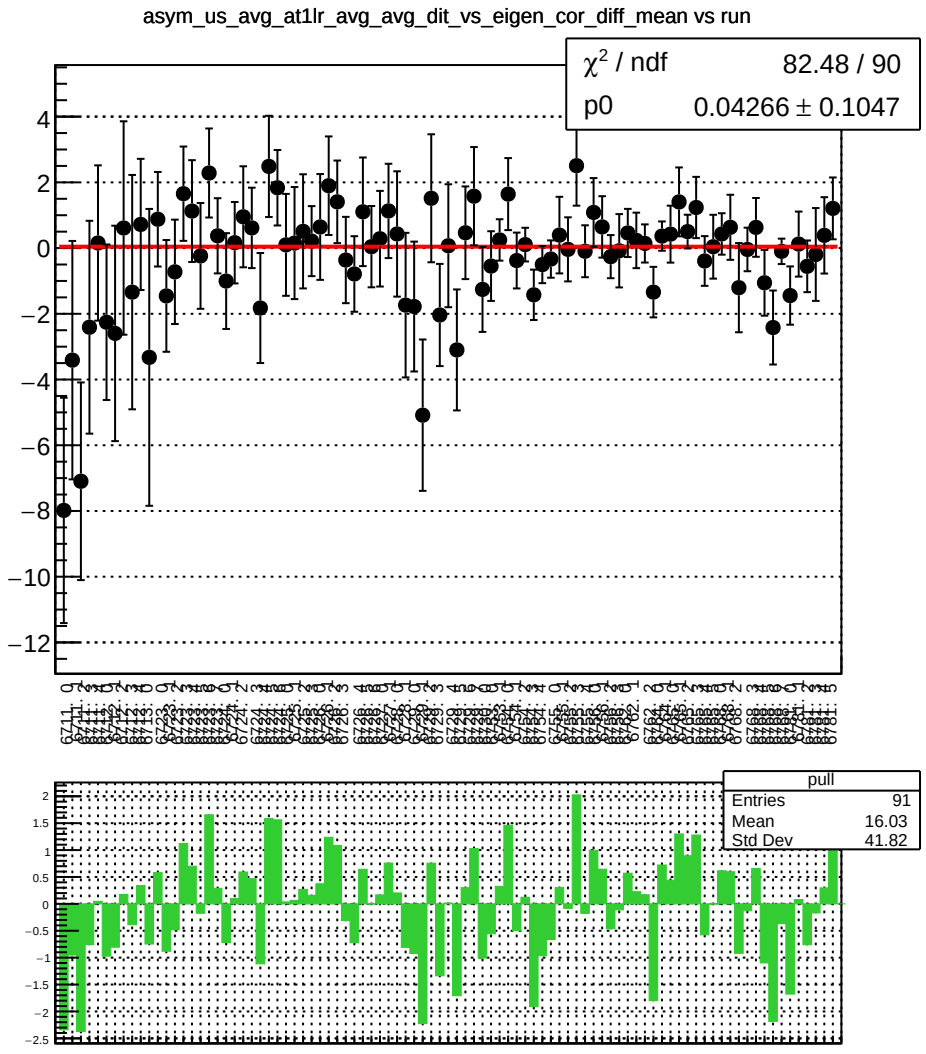

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 71.6 / 90
p0 −9.399e−14 ± 7.449e−14
pull
Entries 91
Mean −1.561
Std Dev 0
pull1D
Entries 91
Mean 0.04594
Std Dev 0.8858

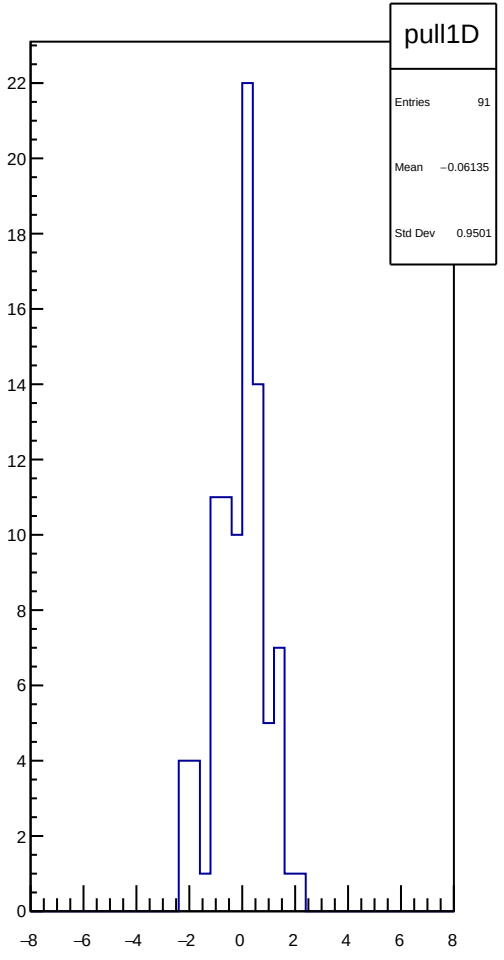

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.078e+06 / 90
p0 4.49e−11 ± 5.267e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

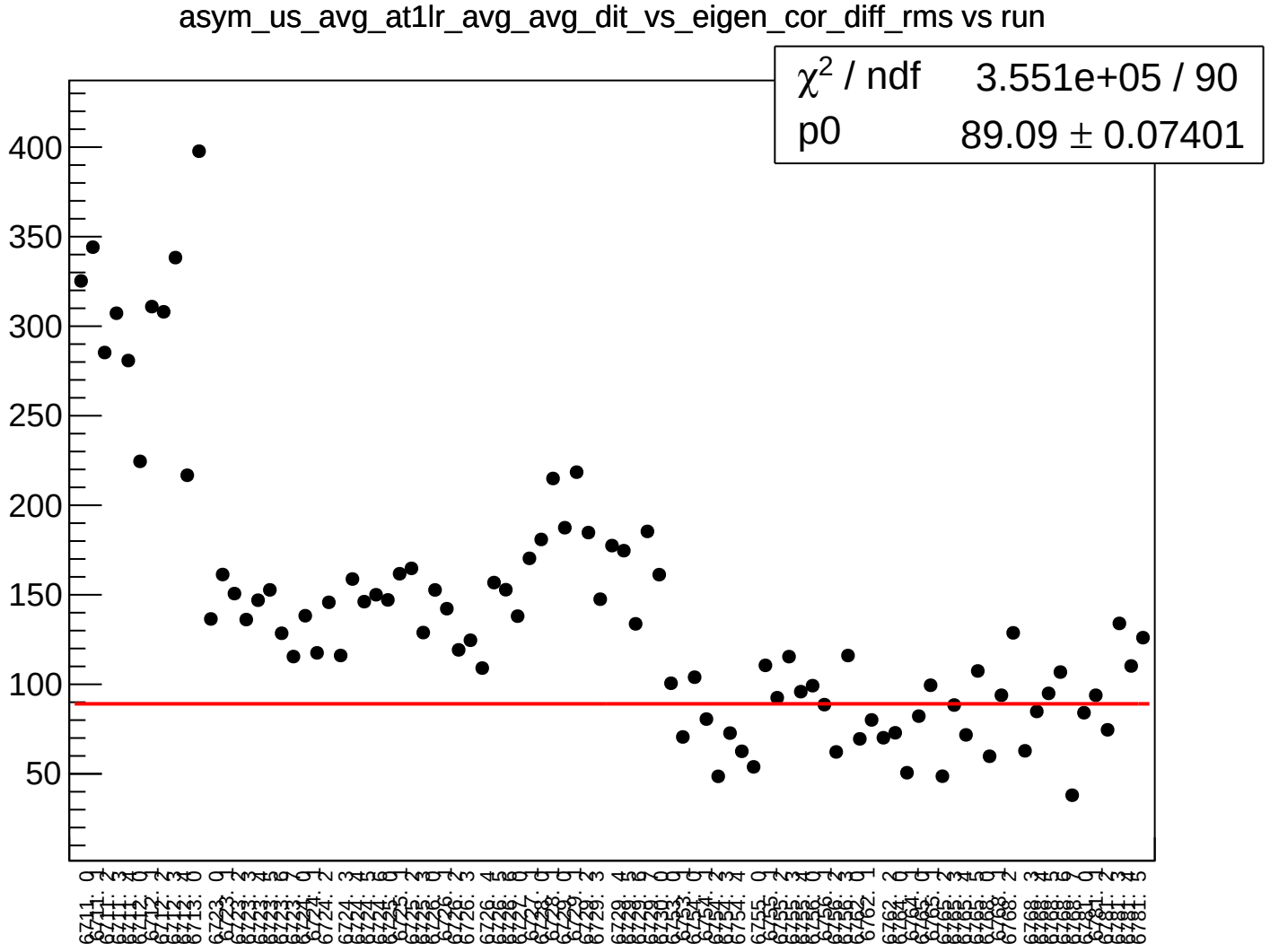

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.48 / 90
p0 0.04266 ± 0.1047
pull
Entries 91
Mean 16.03
Std Dev 41.82

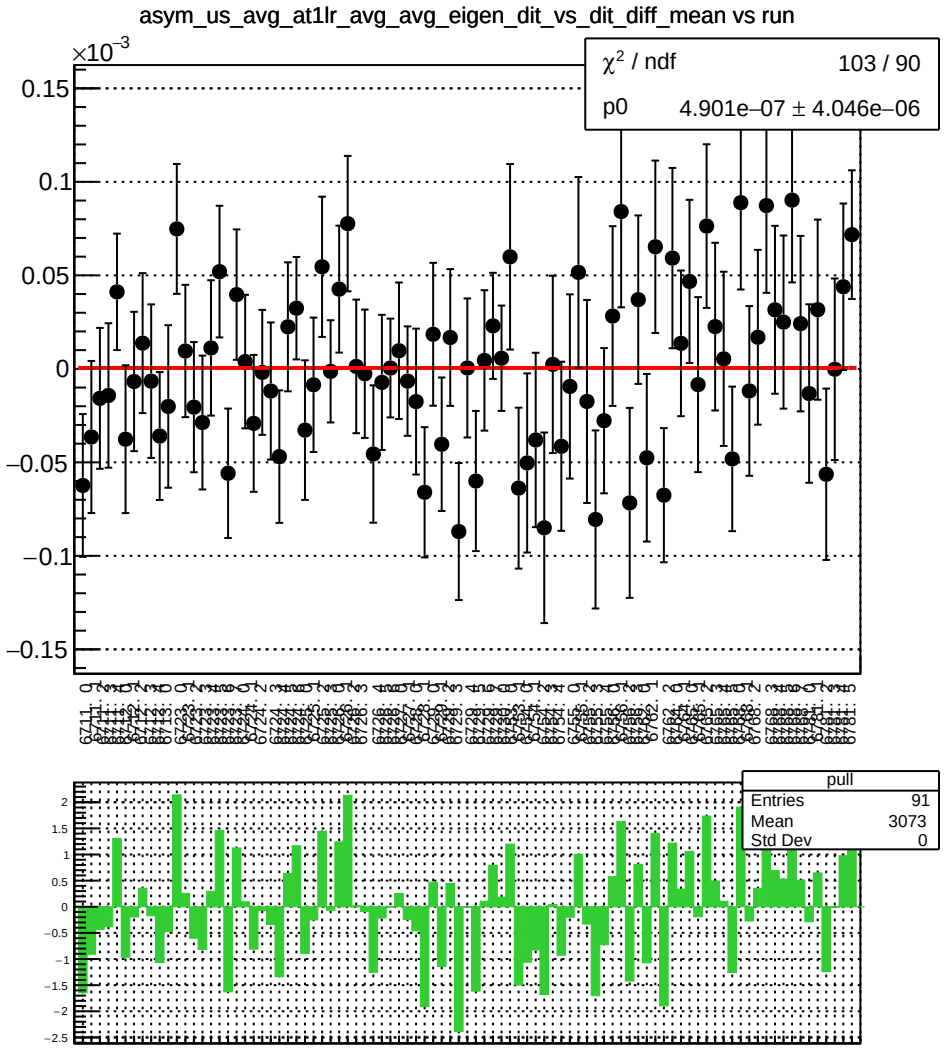

pull1D
Entries 91
Mean −0.06135
Std Dev 0.9501

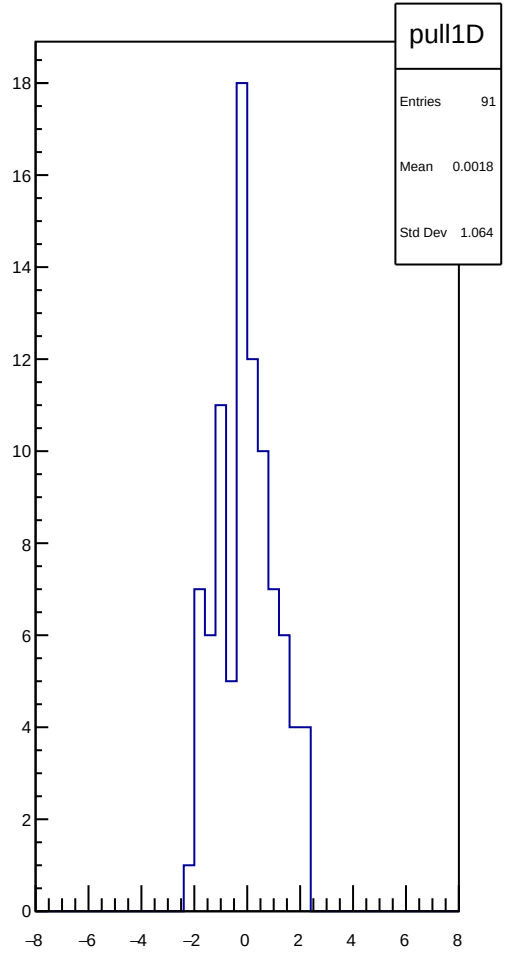

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.551e+05 / 90
p0 89.09 ± 0.07401
400
350
300
250
200
150
100
50

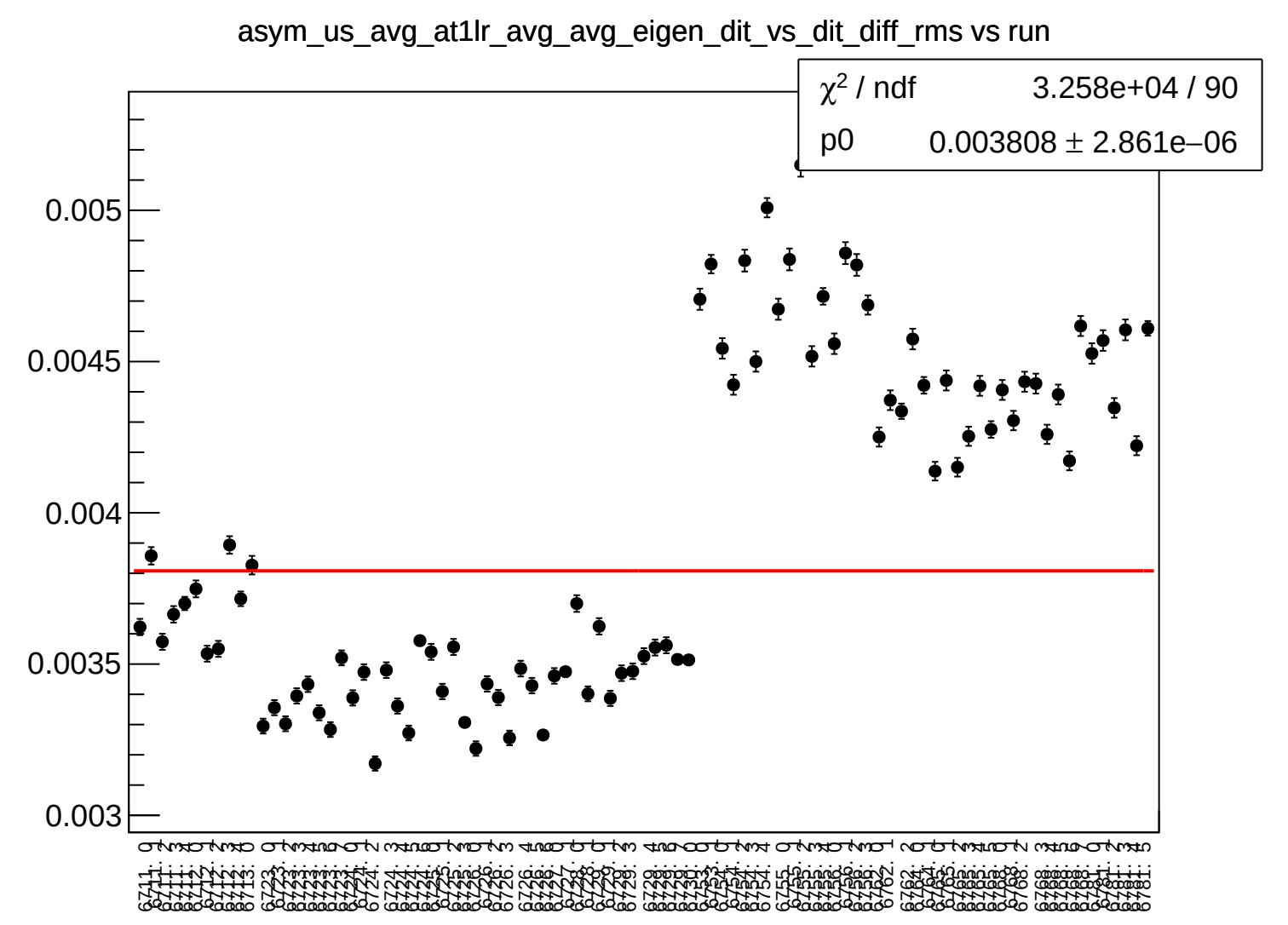

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.48 / 90
p0 0.04266 ± 0.1047
pull
Entries 91
Mean 16.03
Std Dev 41.82

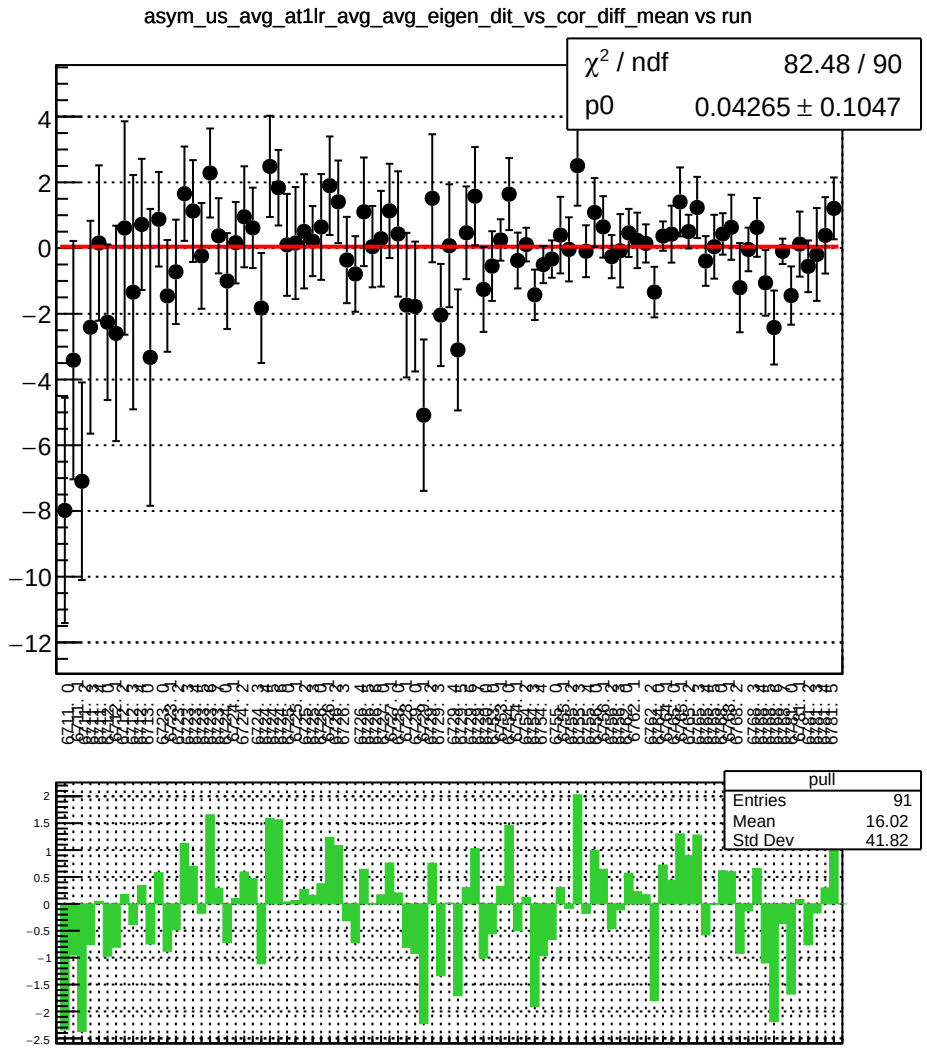

pull1D
Entries 91
Mean −0.06135
Std Dev 0.9501

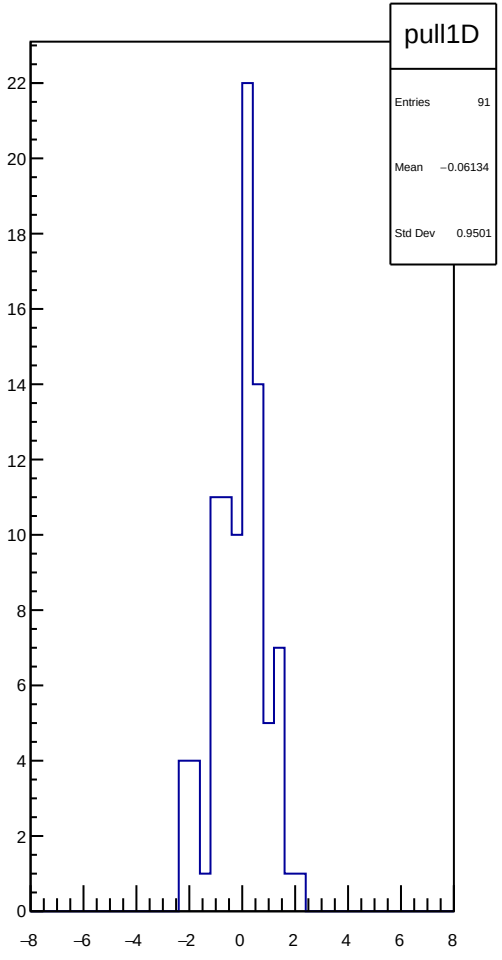

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.551e+05 / 90
p0 89.09 ± 0.07401
400
350
300
250
200
150
100
50

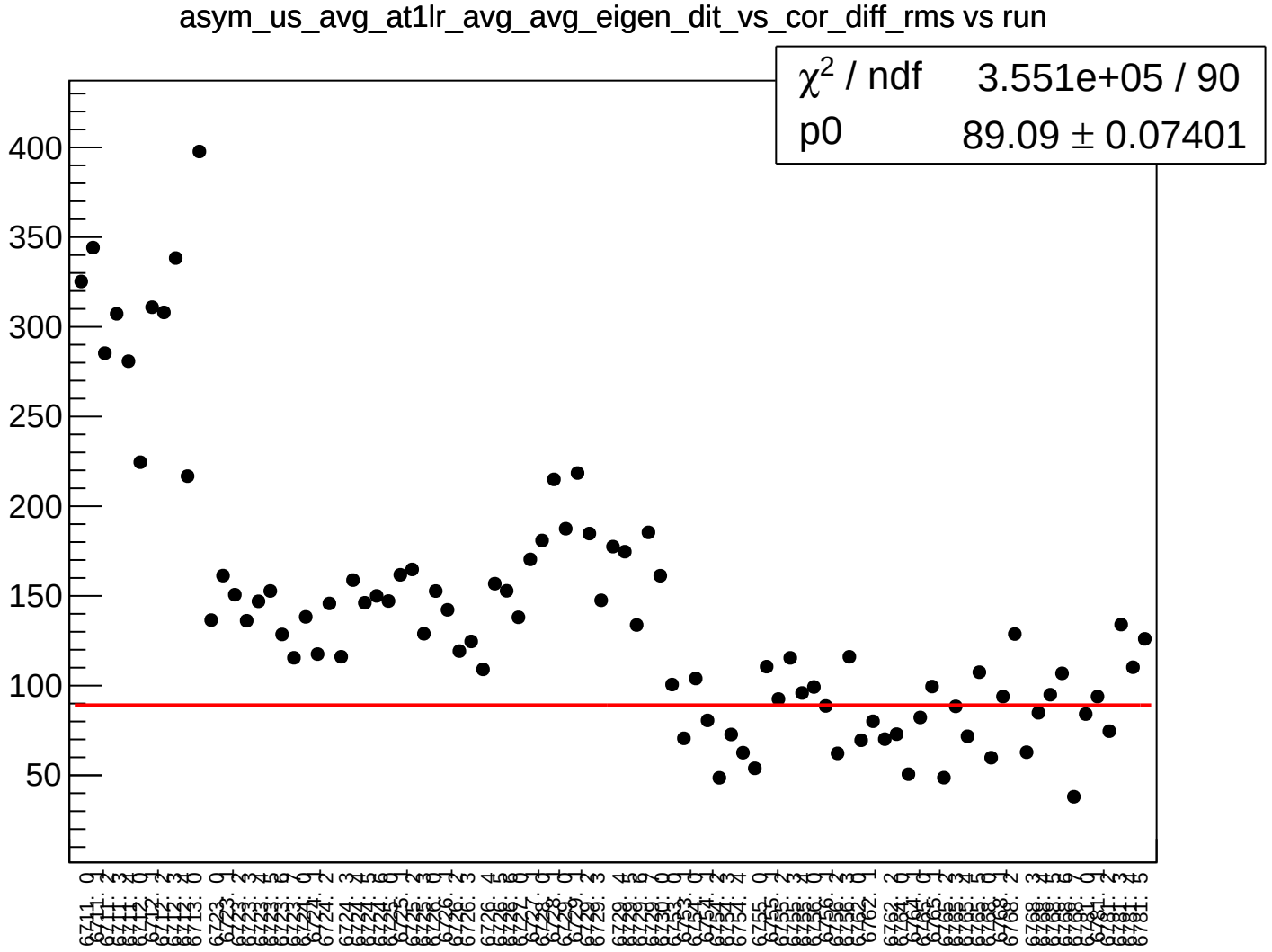

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103 / 90
p0 4.901e−07 ± 4.046e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean 3073
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

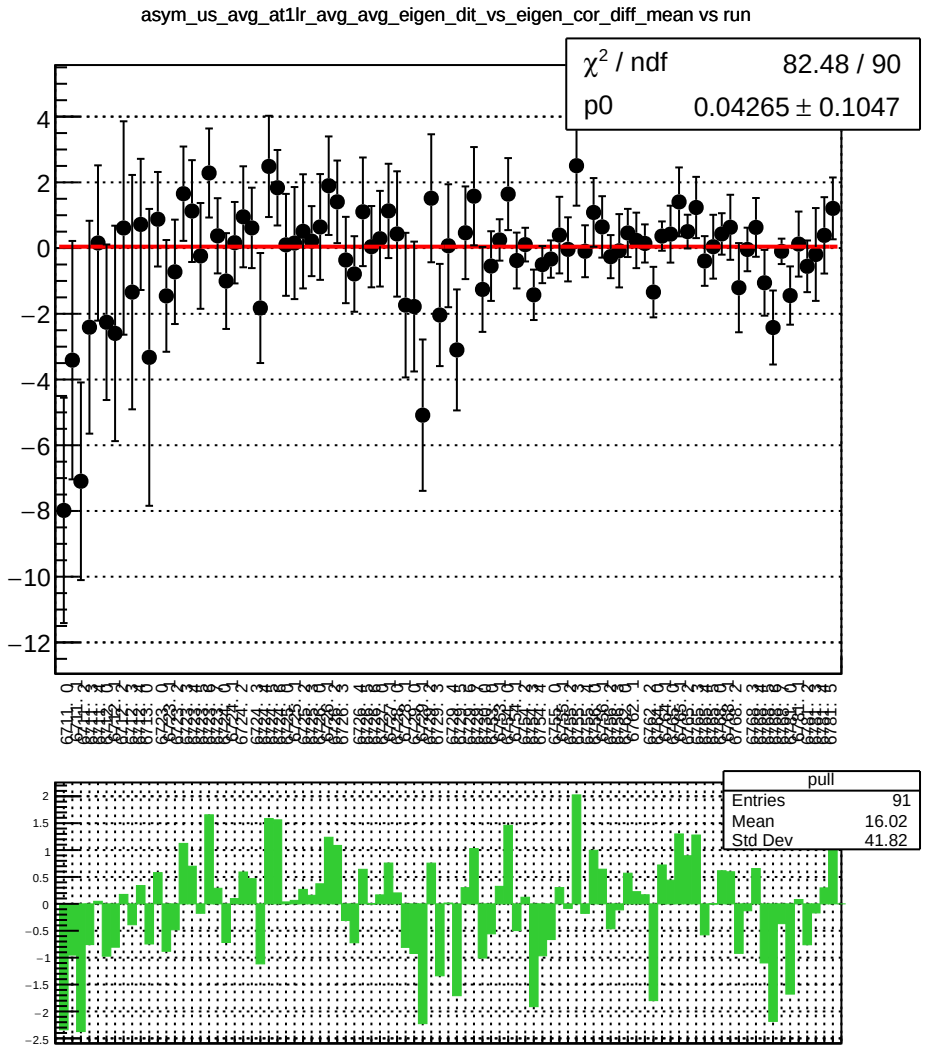

pull1D
Entries 91
Mean 0.0018
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

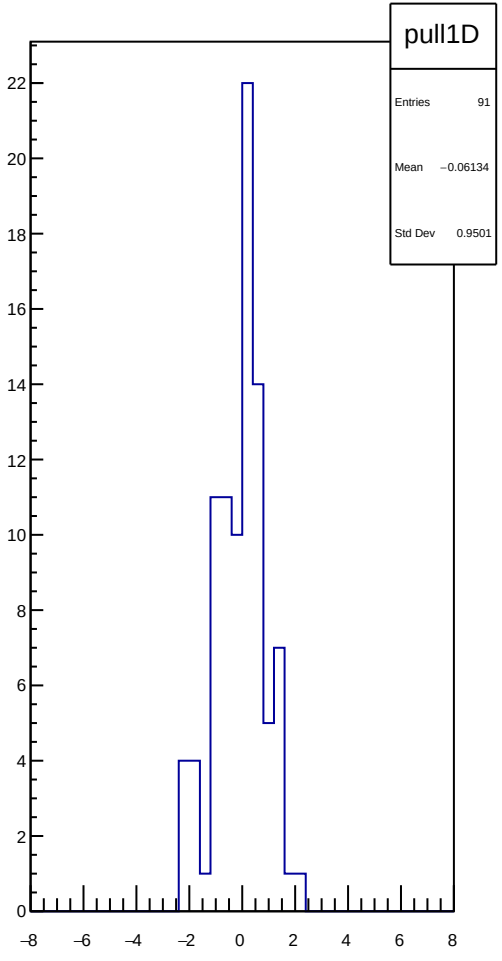

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.258e+04 / 90
p0 0.003808 ± 2.861e−06
0.005
0.0045
0.004
0.0035
0.003

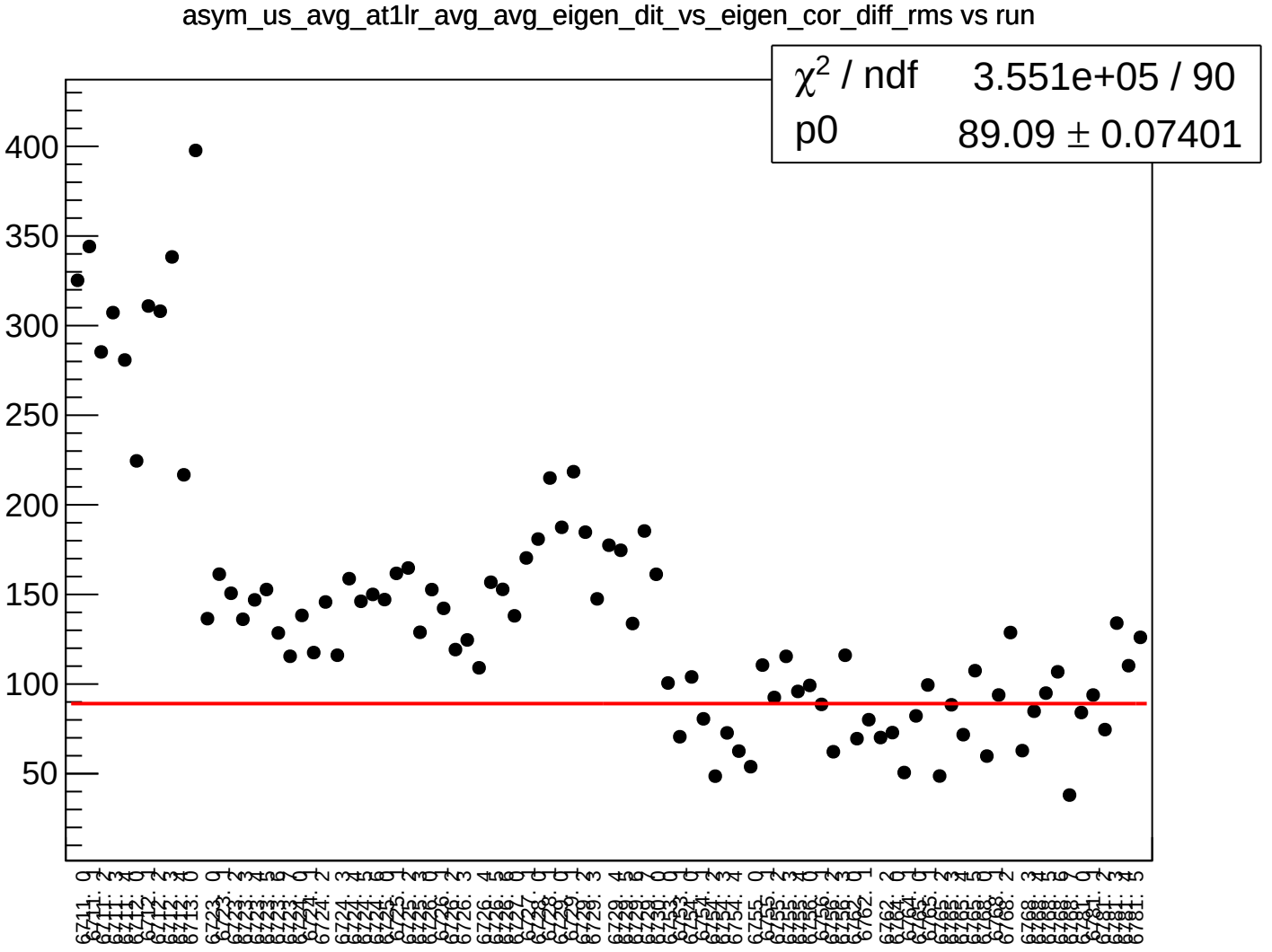

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.48 / 90
p0 0.04265 ± 0.1047
pull
Entries 91
Mean 16.02
Std Dev 41.82

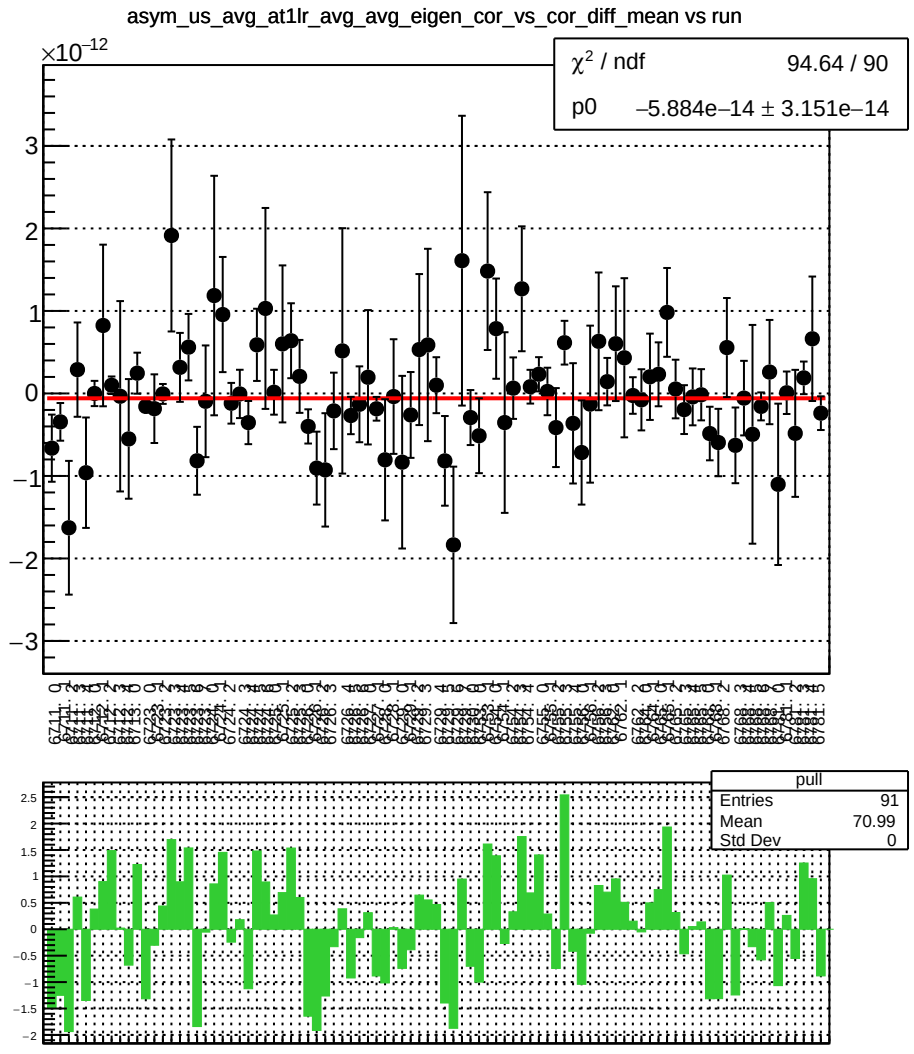

pull1D
Entries 91
Mean −0.06134
Std Dev 0.9501

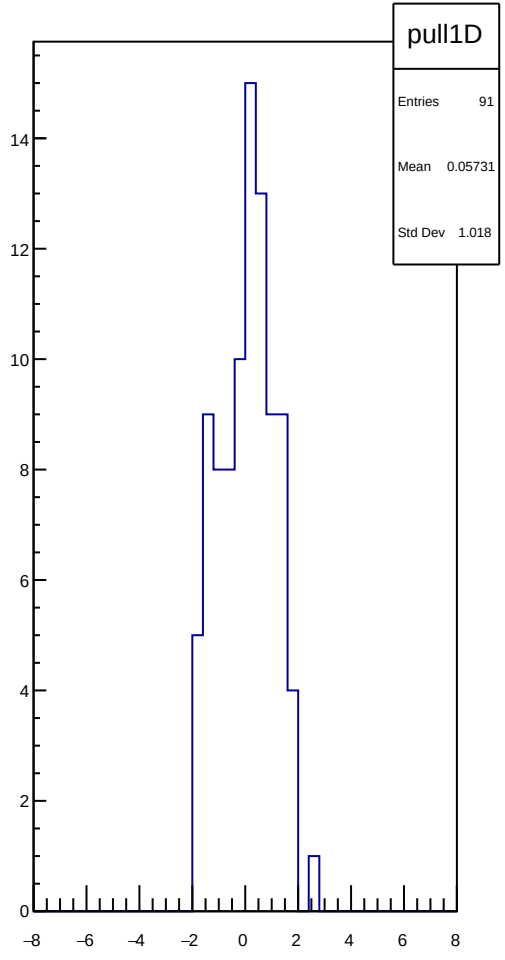

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.551e+05 / 90
p0 89.09 ± 0.07401
400
350
300
250
200
150
100
50

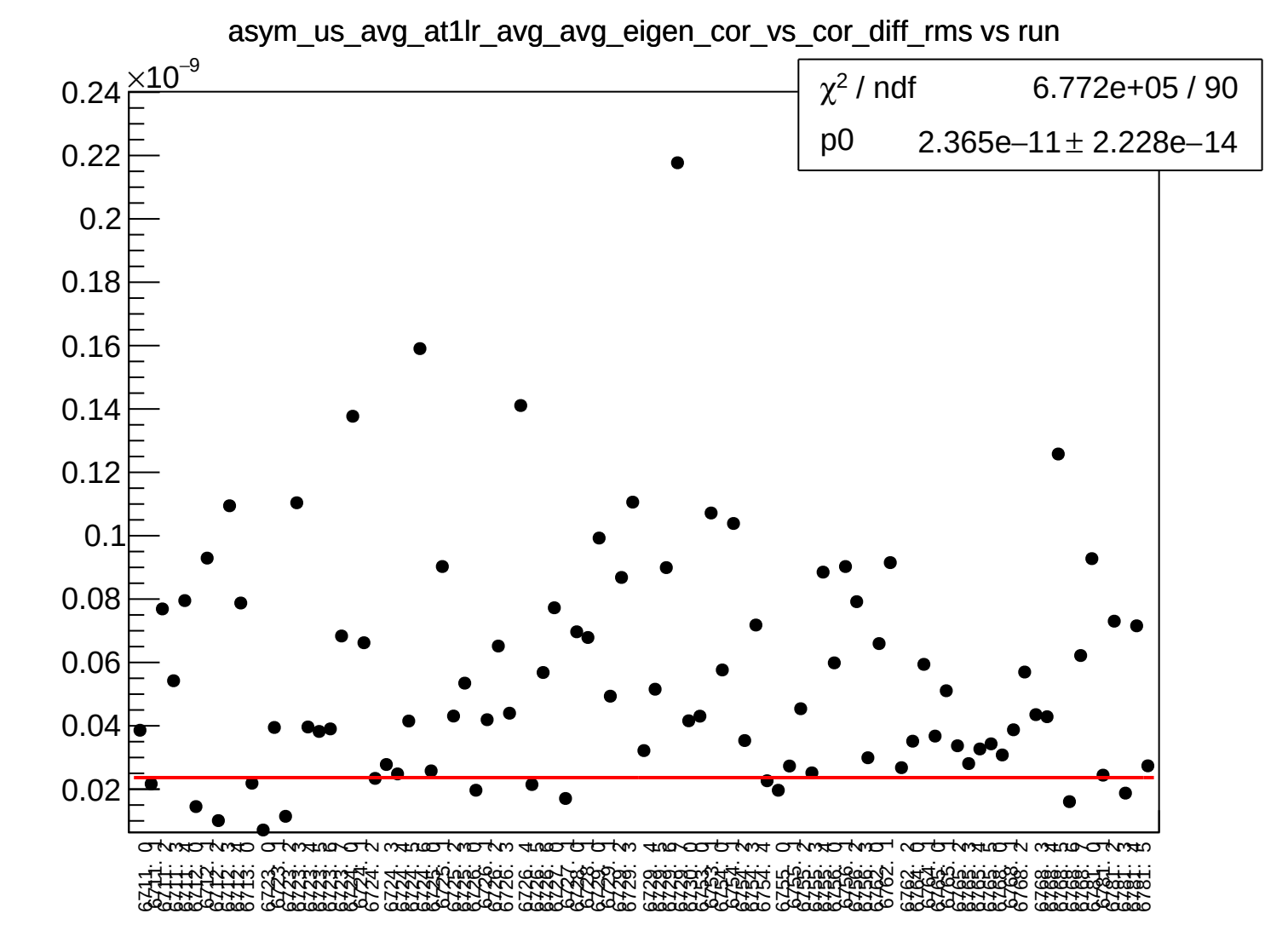

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.48 / 90
p0 0.04265 ± 0.1047
pull
Entries 91
Mean 16.02
Std Dev 41.82

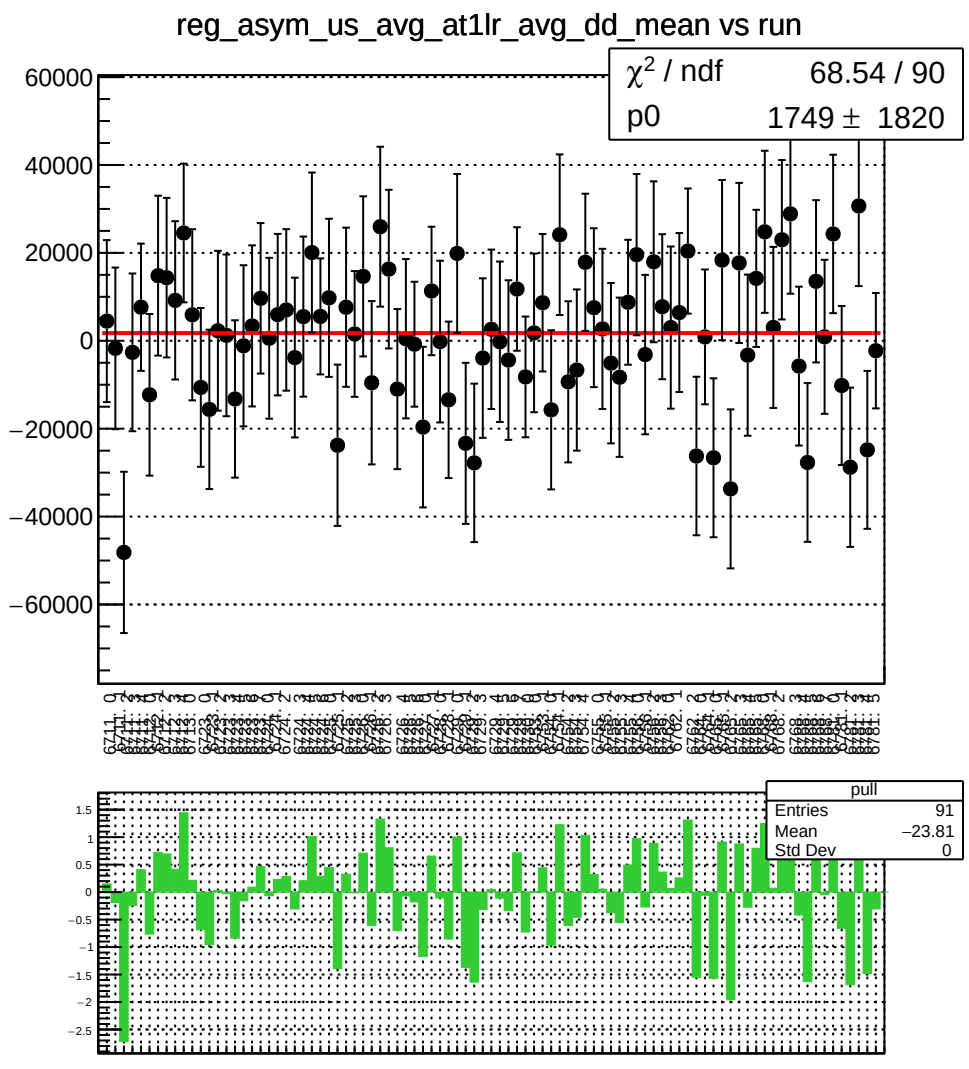

pull1D
Entries 91
Mean −0.06134
Std Dev 0.9501

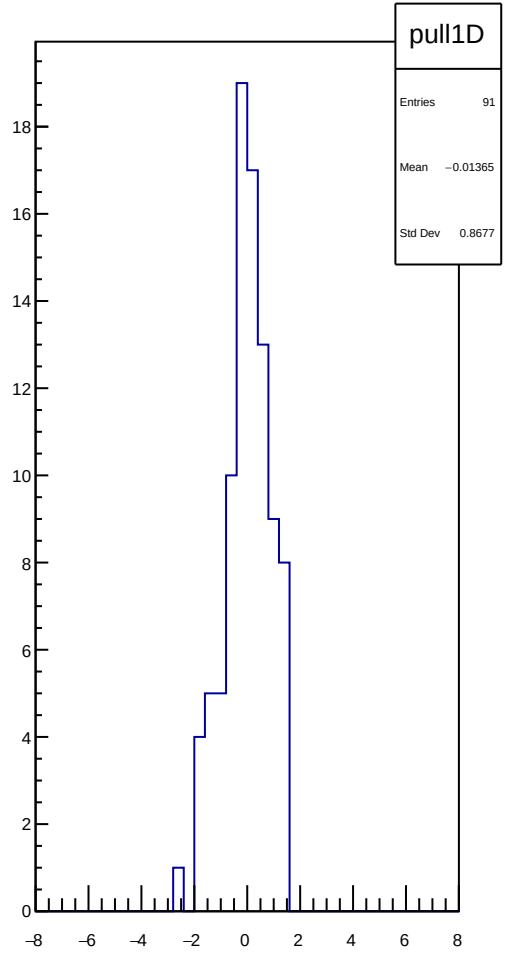

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.551e+05 / 90
p0 89.09 ± 0.07401
400
350
300
250
200
150
100
50

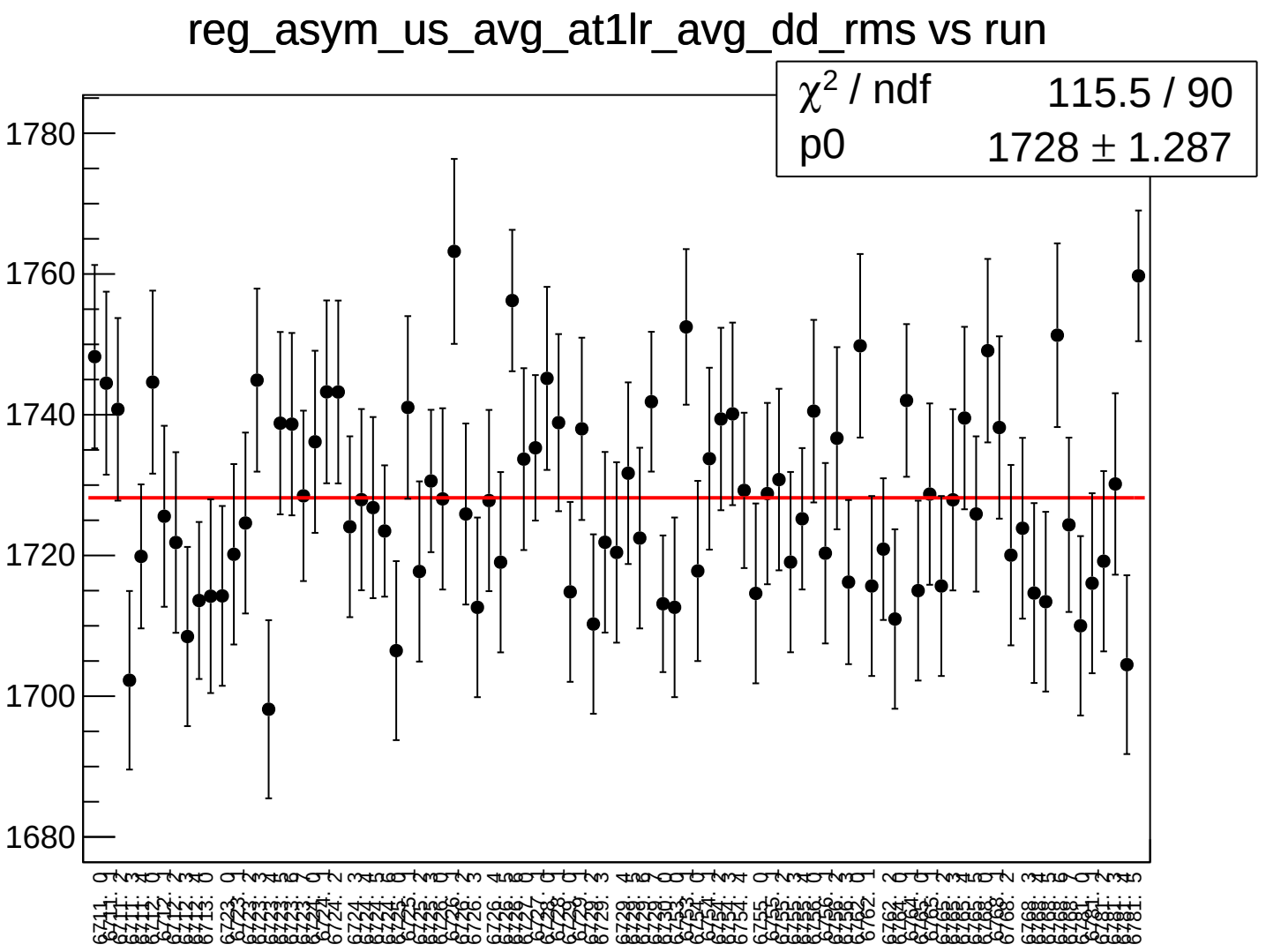

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.64 / 90
p0 −5.884e−14 ± 3.151e−14
pull
Entries 91
Mean 70.99
Std Dev 0

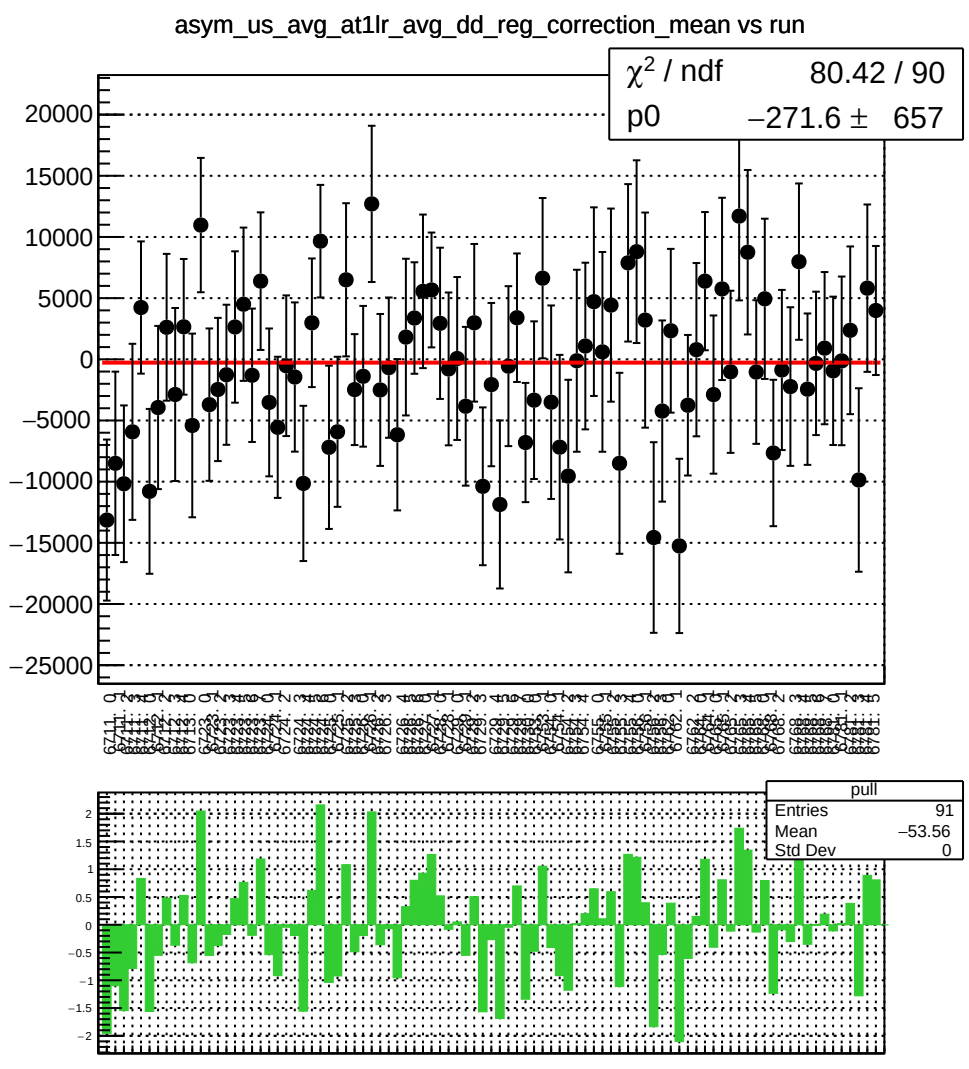

pull1D
Entries 91
Mean 0.05731
Std Dev 1.018

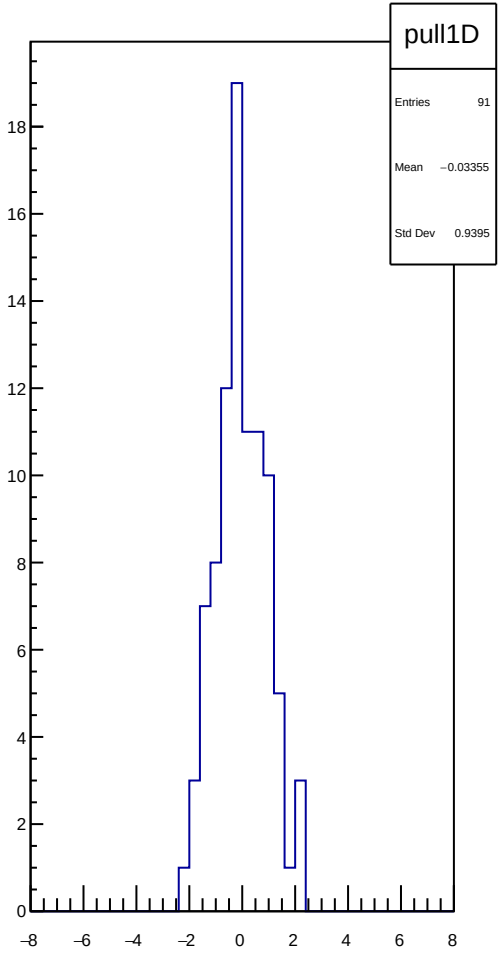

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.772e+05 / 90
p0 2.365e−11 ± 2.228e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

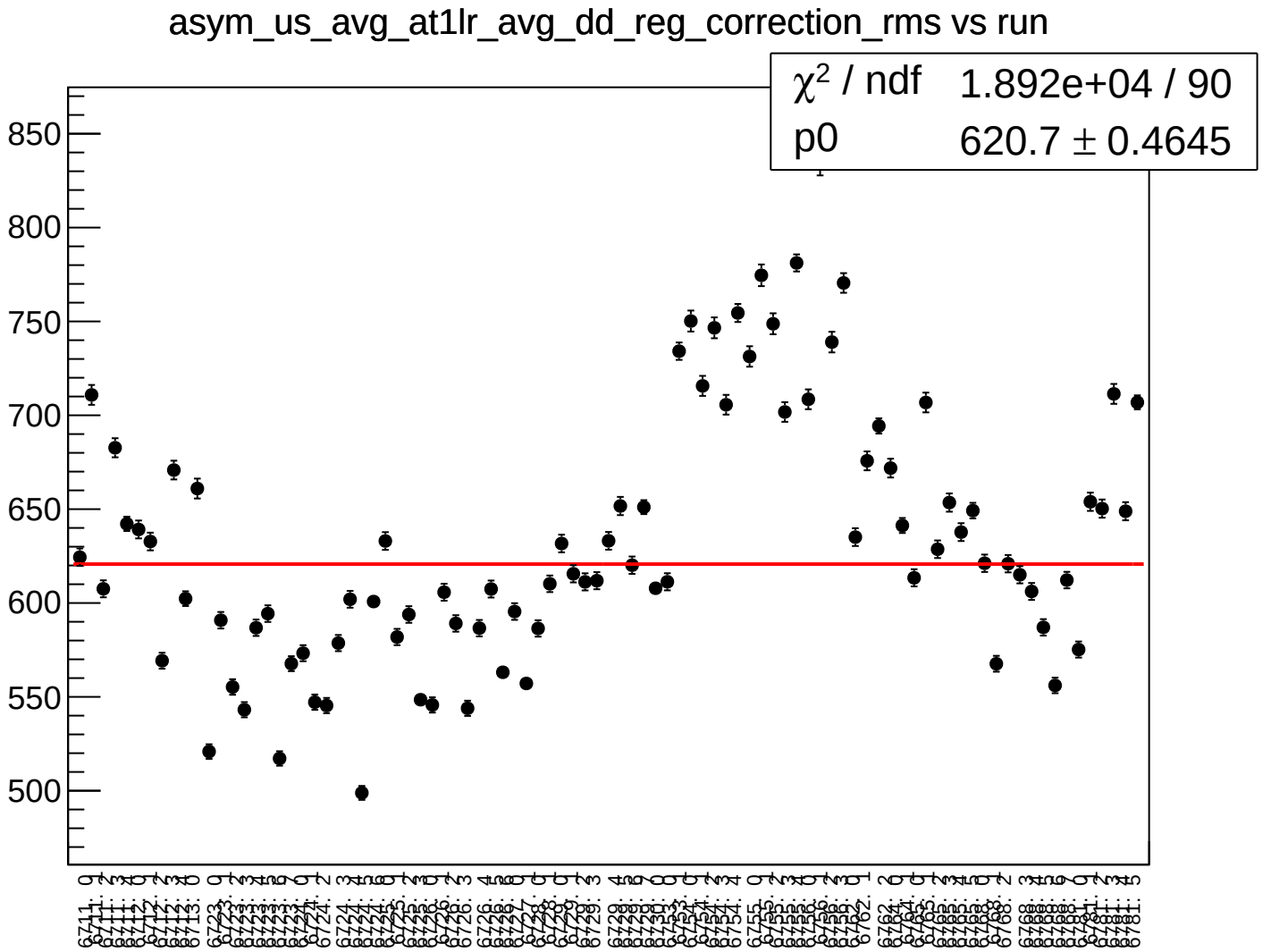

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 68.54 / 90
p0 1749 ± 1820
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −23.81
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

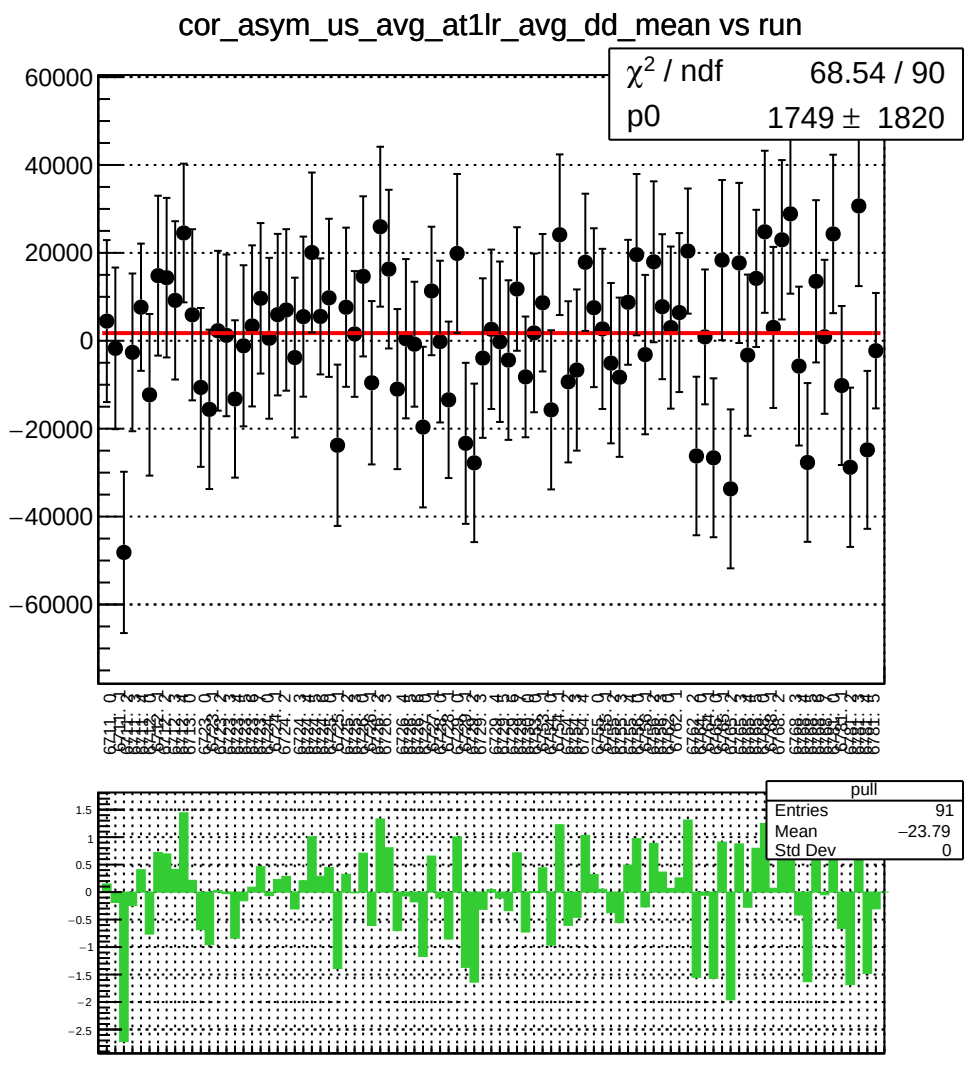

pull1D
Entries 91
Mean −0.01365
Std Dev 0.8677
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

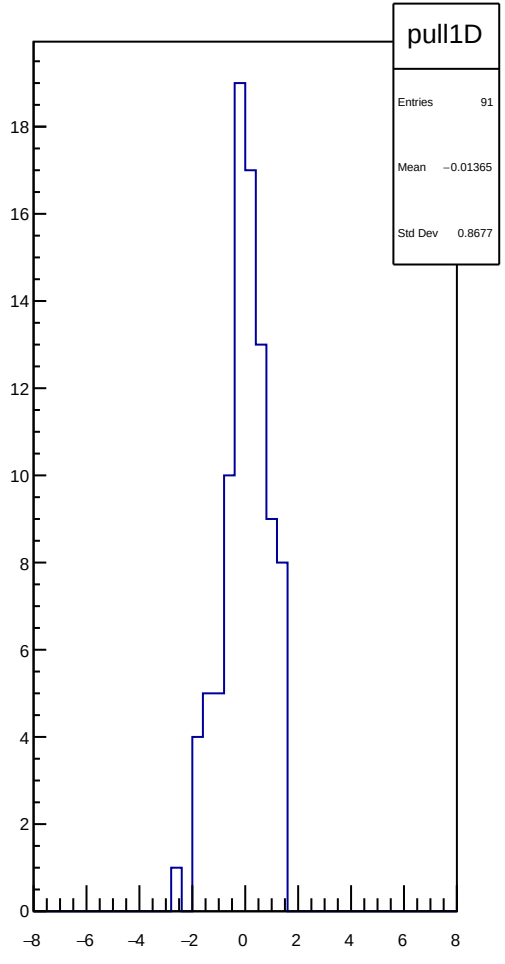

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 115.5 / 90
p0 1728 ± 1.287
1780
1760
1740
1720
1700
1680

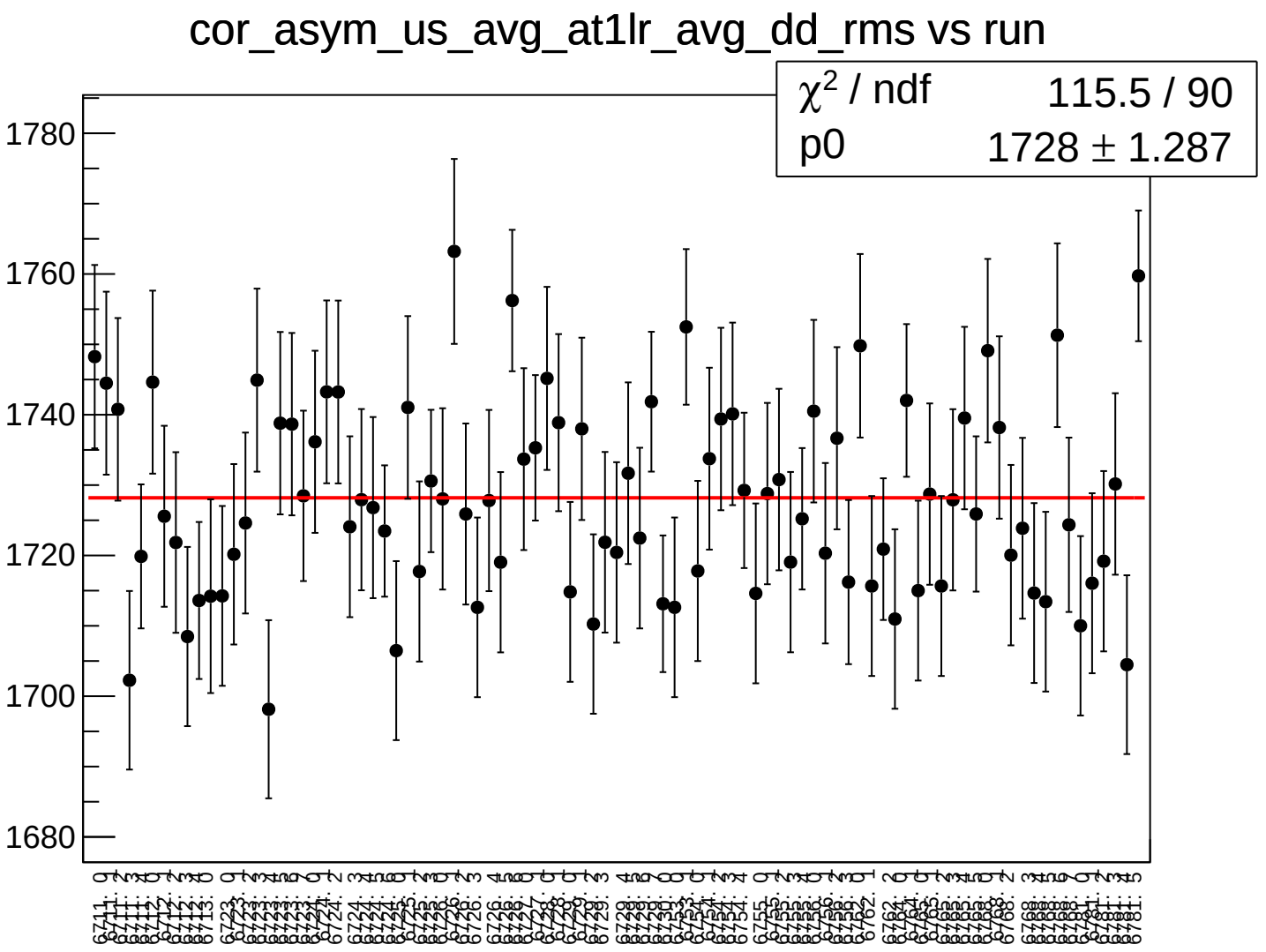

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 80.42 / 90
p0 −271.6 ± 657
pull
Entries 91
Mean −53.56
Std Dev 0

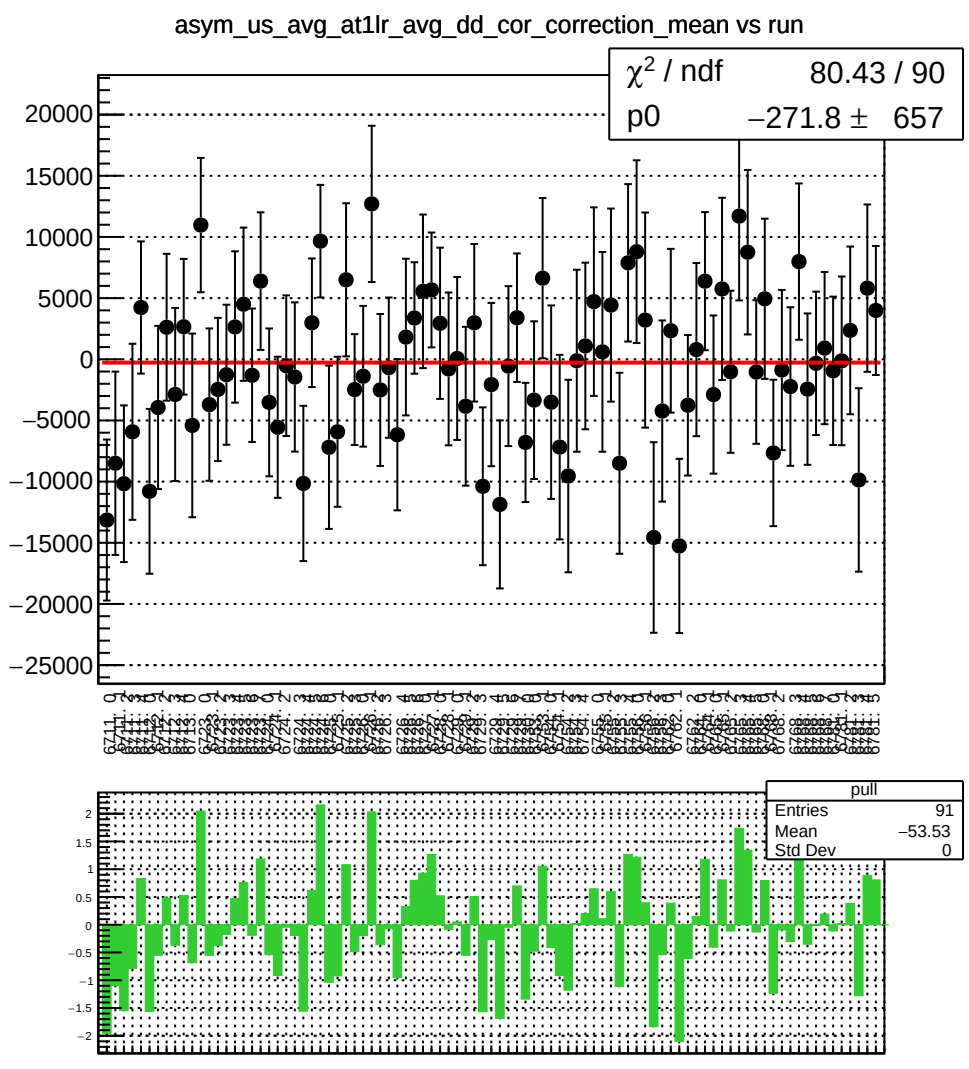

pull1D
Entries 91
Mean −0.03355
Std Dev 0.9395

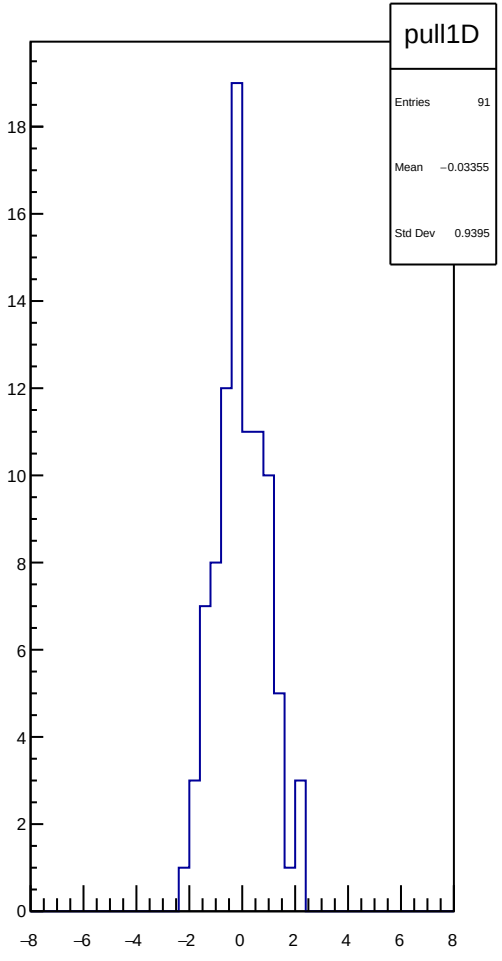

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.892e+04 / 90
p0 620.7 ± 0.4645
850
800
750
700
650
600
550
500

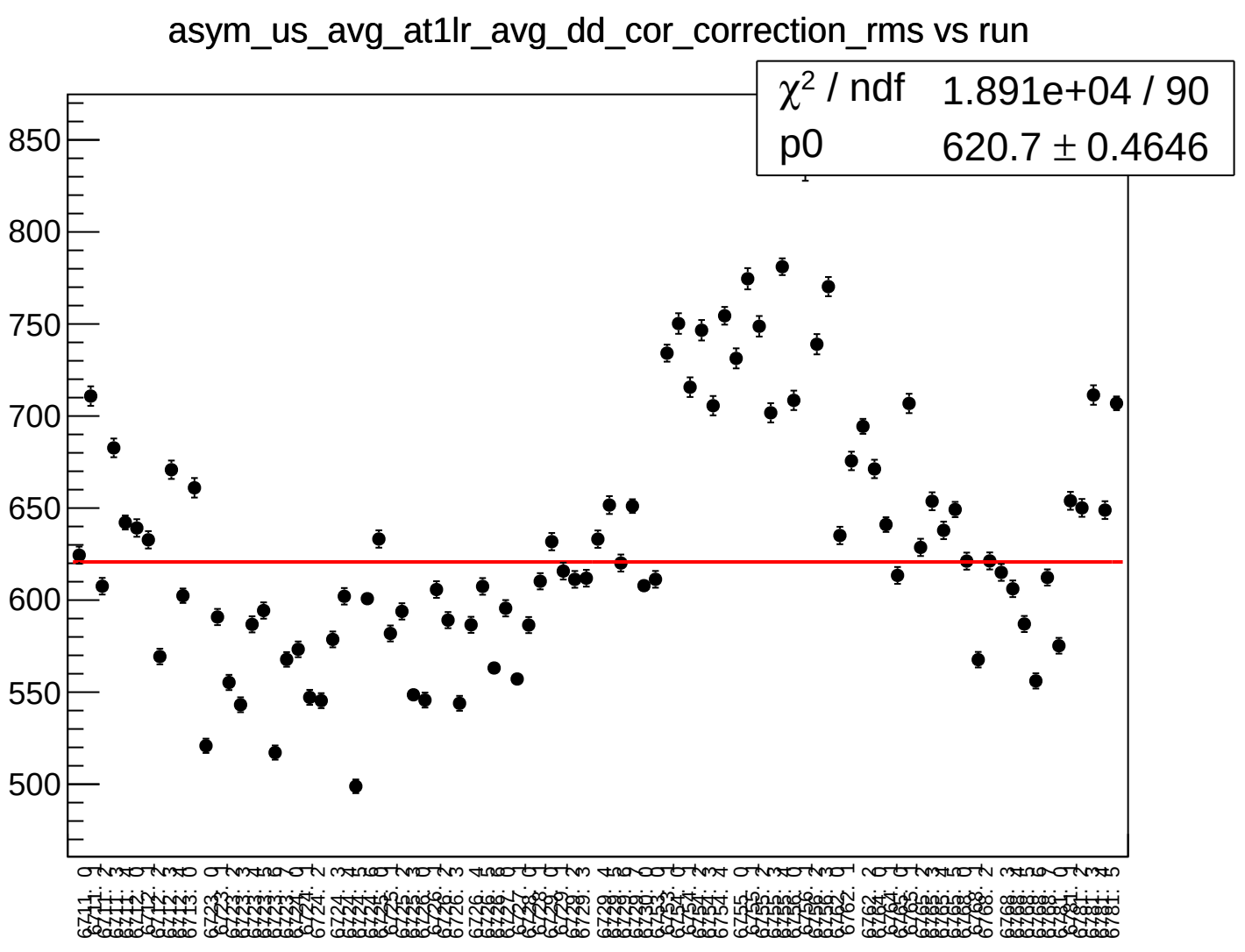

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 68.54 / 90
p0 1749 ± 1820
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −23.79
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

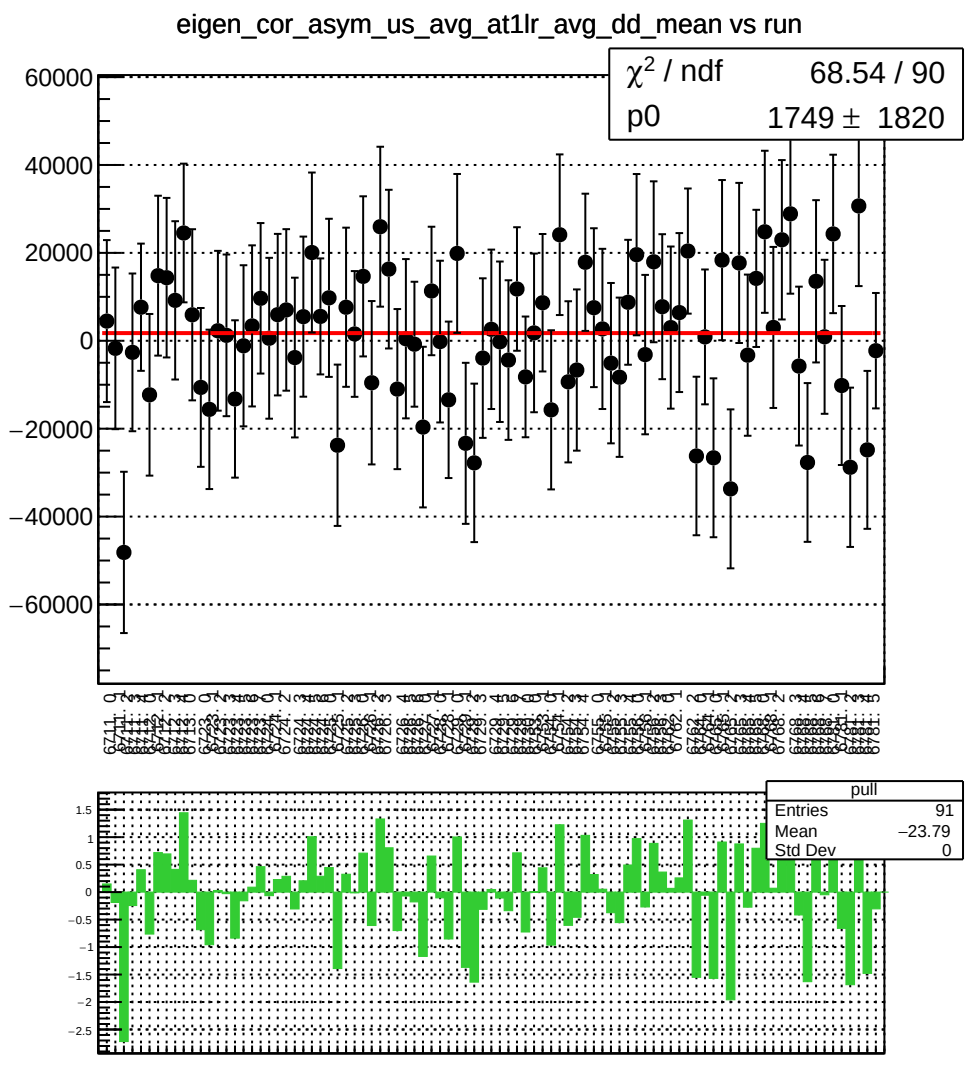

pull1D
Entries 91
Mean −0.01365
Std Dev 0.8677
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

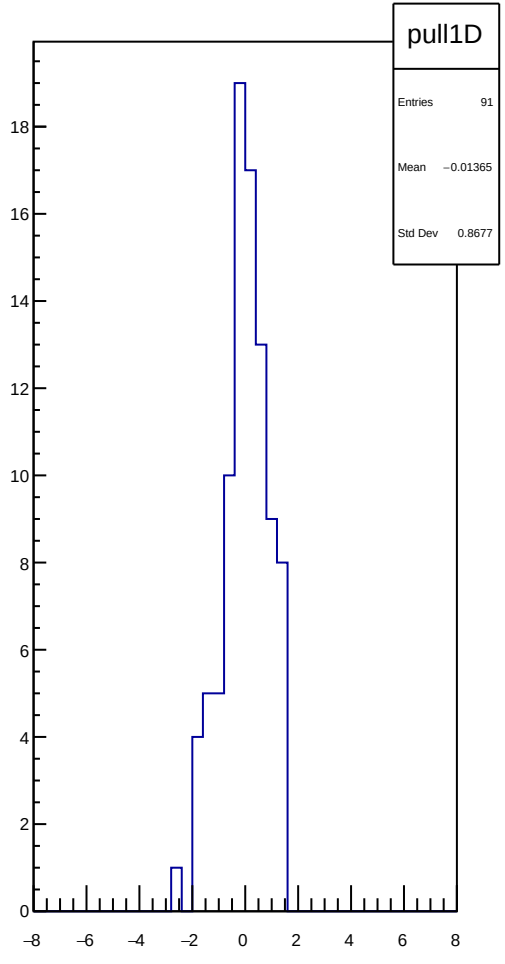

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 115.5 / 90
p0 1728 ± 1.287
1780
1760
1740
1720
1700
1680

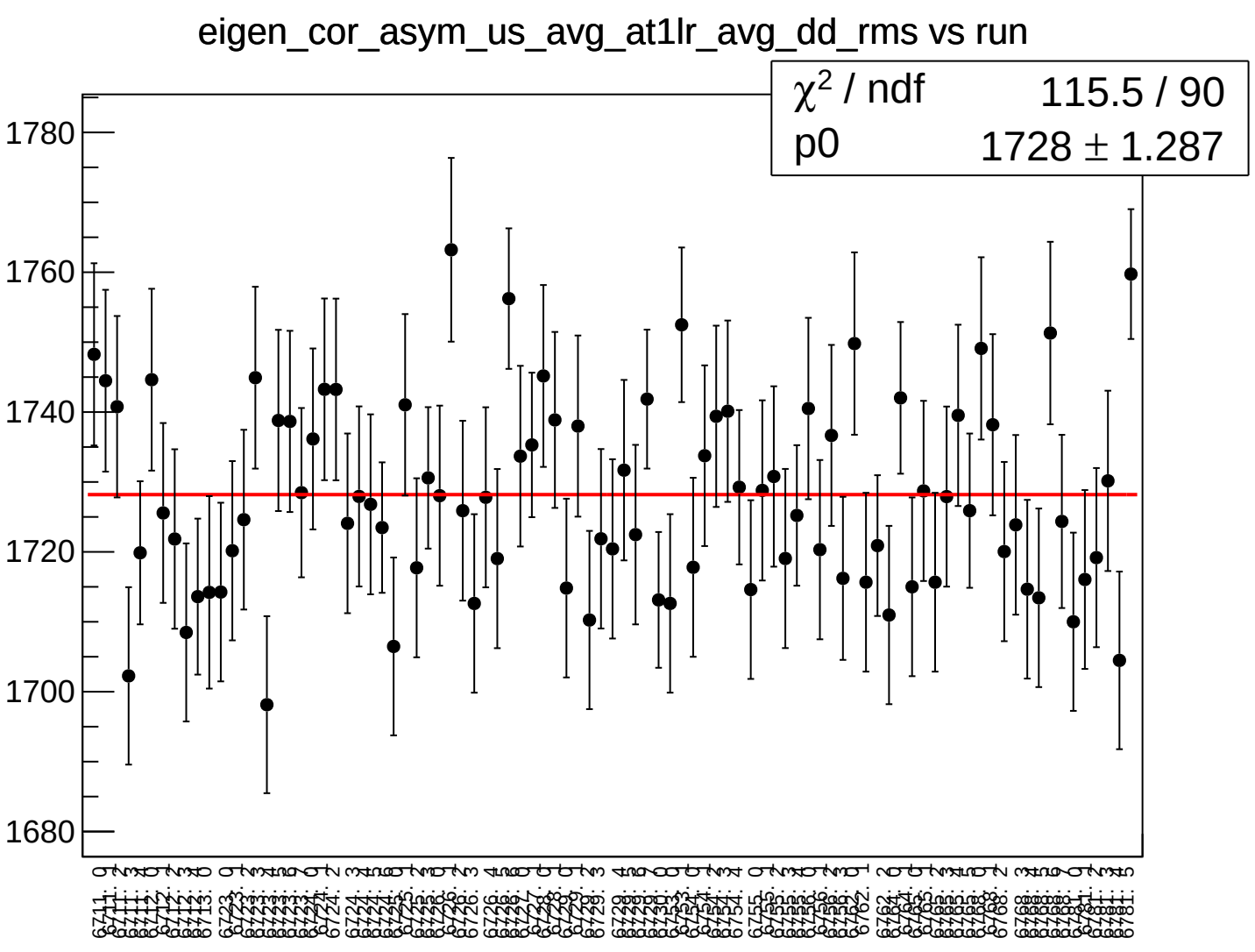

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 80.43 / 90
p0 −271.8 ± 657
pull
Entries 91
Mean −53.53
Std Dev 0

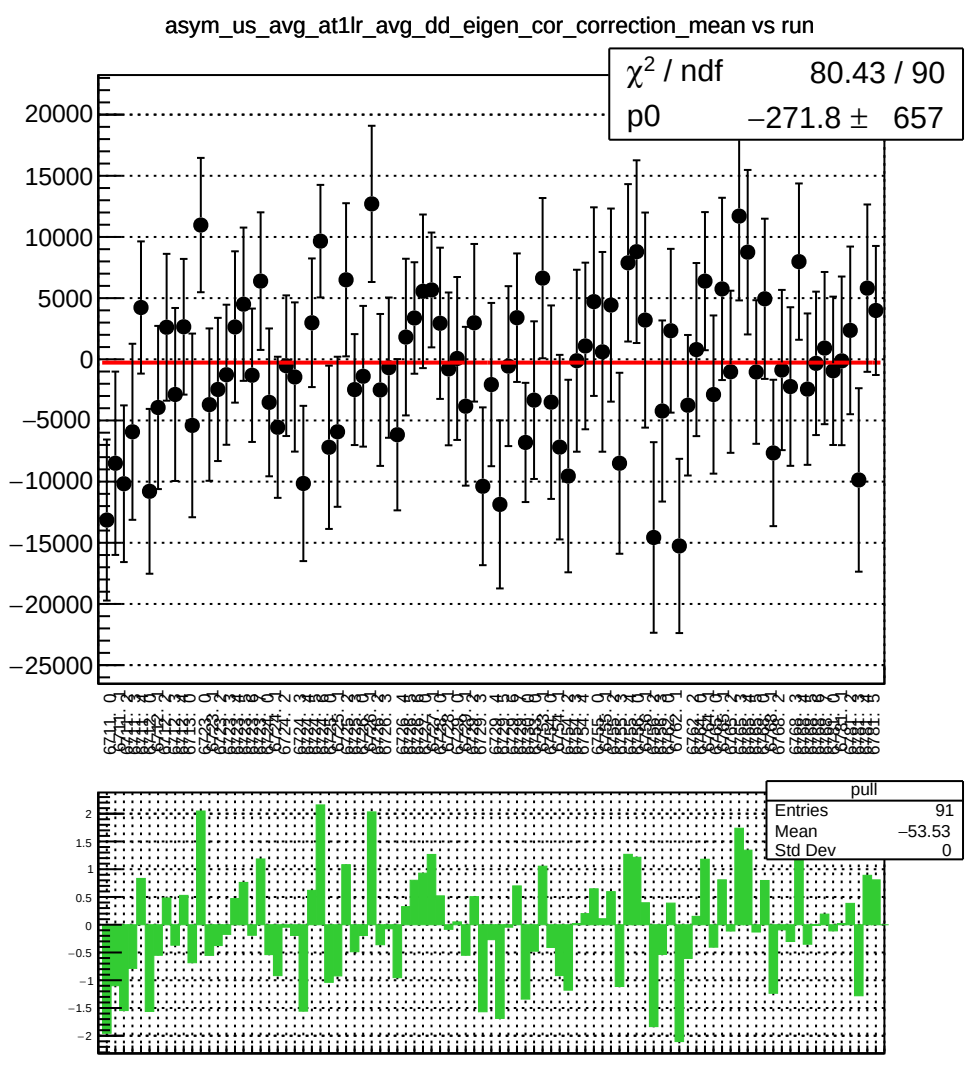

pull1D
Entries 91
Mean −0.03355
Std Dev 0.9395

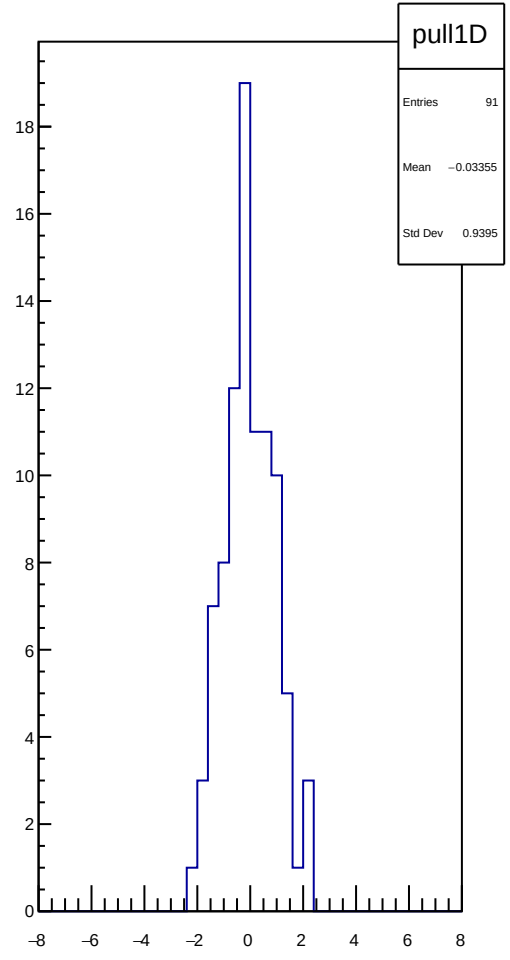

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.891e+04 / 90
p0 620.7 ± 0.4646
850
800
750
700
650
600
550
500

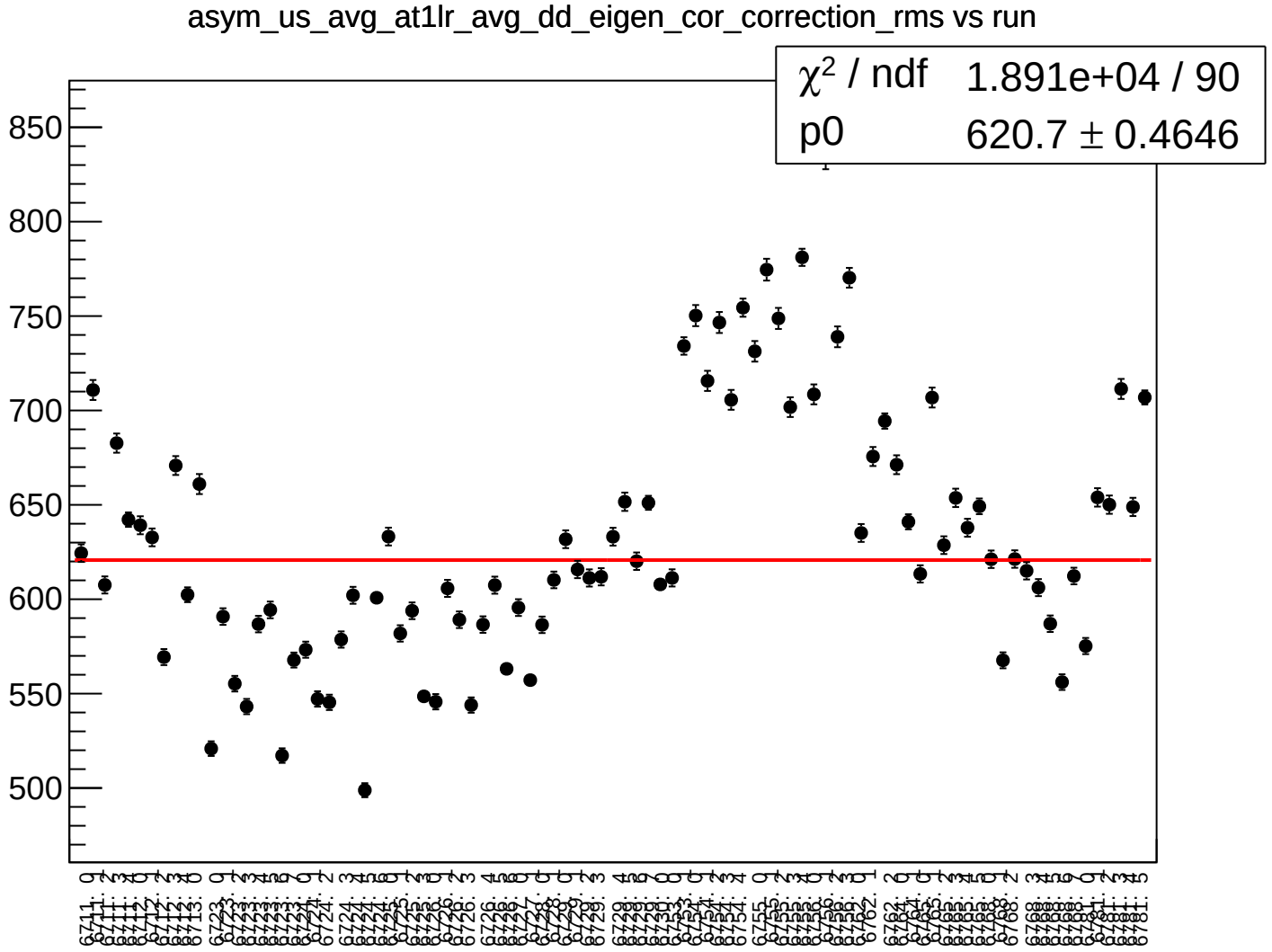

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 68.54 / 90
p0 1749 ± 1820
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −23.79
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

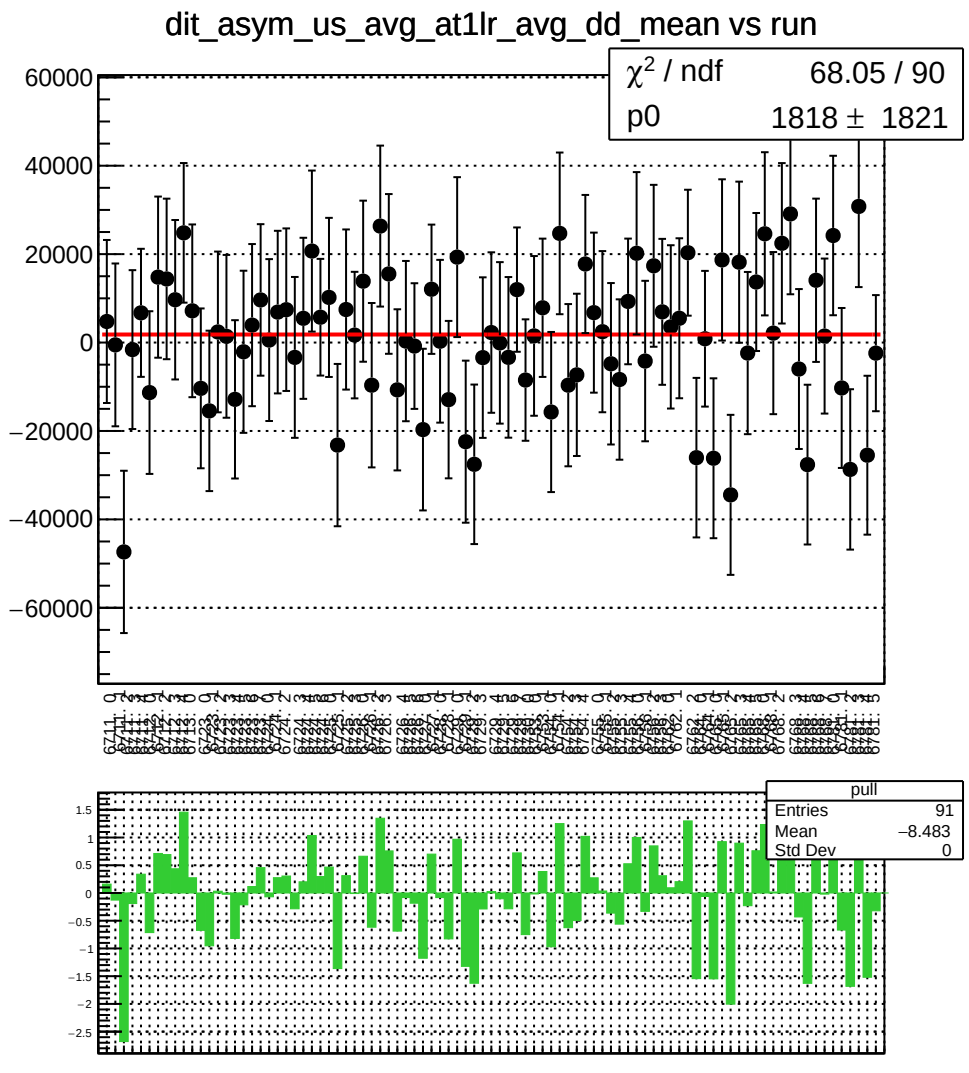

pull1D
Entries 91
Mean −0.01365
Std Dev 0.8677
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

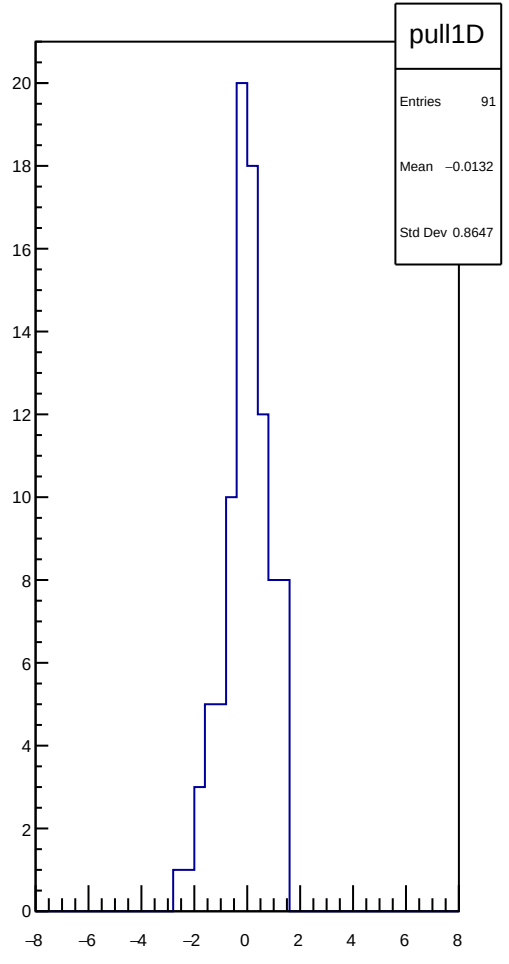

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 115.5 / 90
p0 1728 ± 1.287
1780
1760
1740
1720
1700
1680

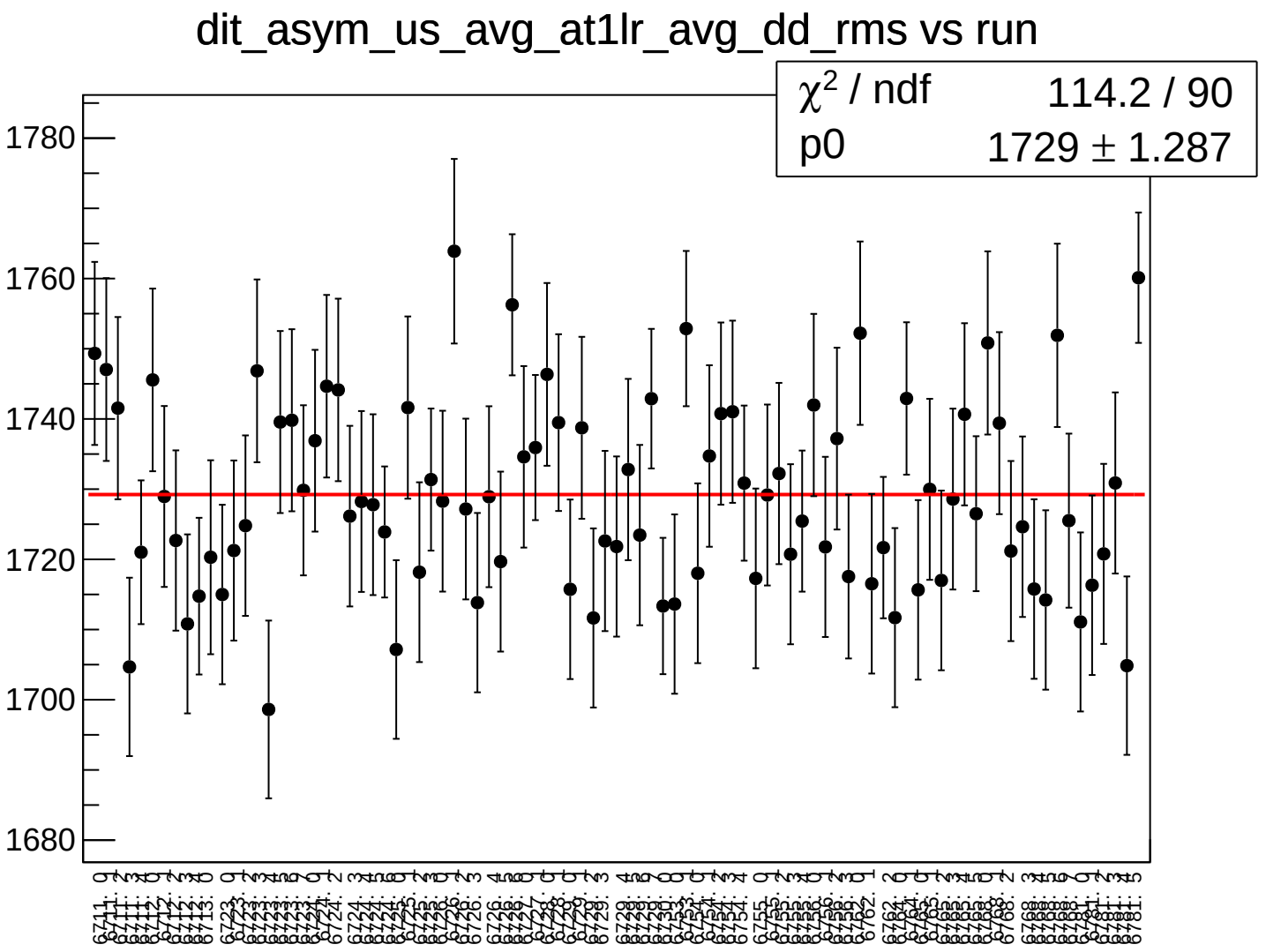

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.43 / 90
p0 −271.8 ± 657
pull
Entries 91
Mean −53.53
Std Dev 0

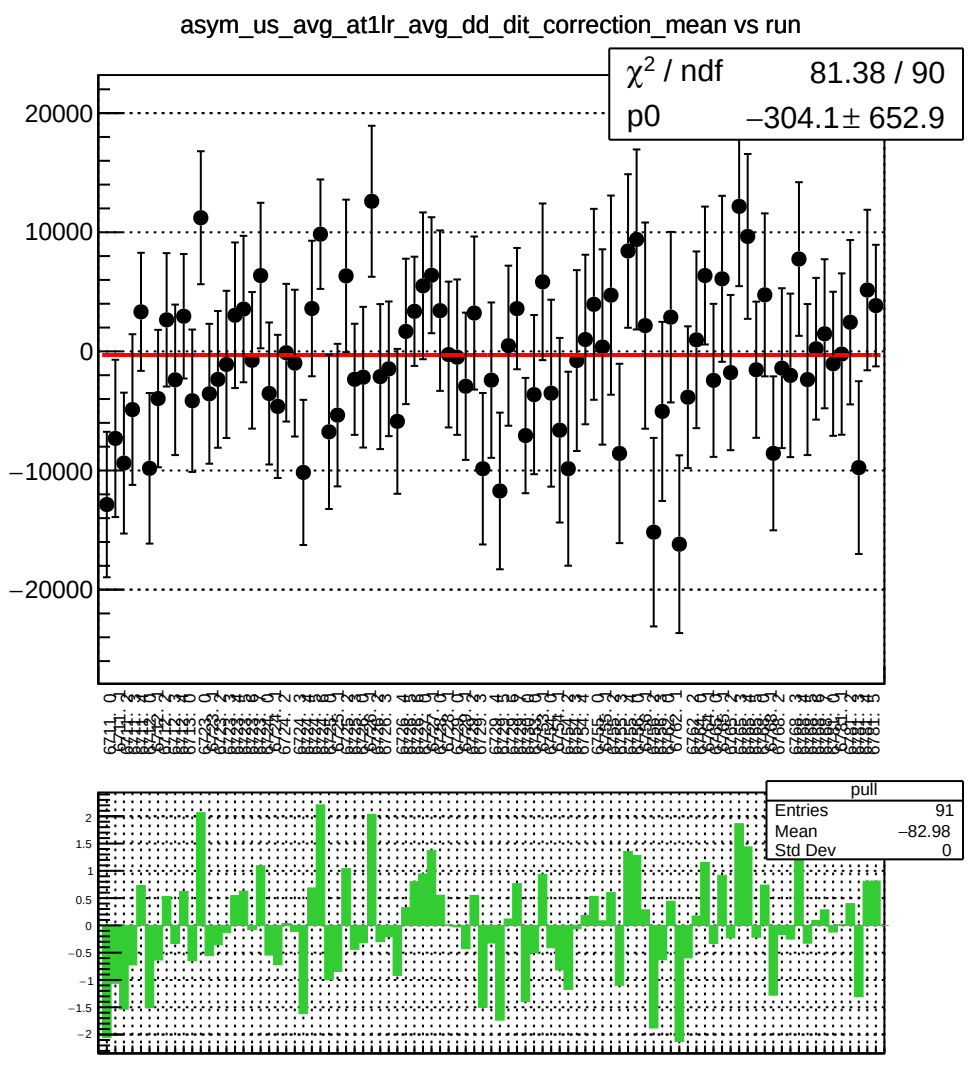

pull1D
Entries 91
Mean −0.03355
Std Dev 0.9395

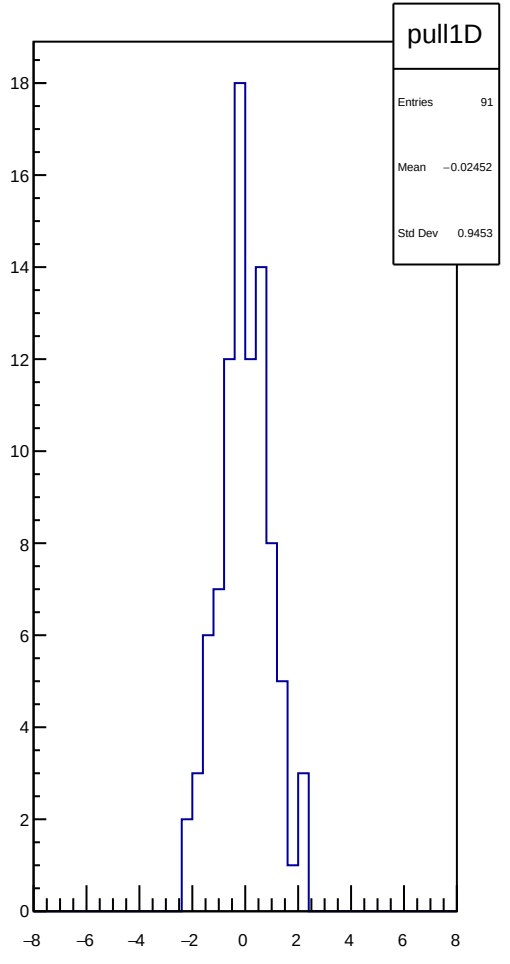

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.891e+04 / 90
p0 620.7 ± 0.4646
850
800
750
700
650
600
550
500

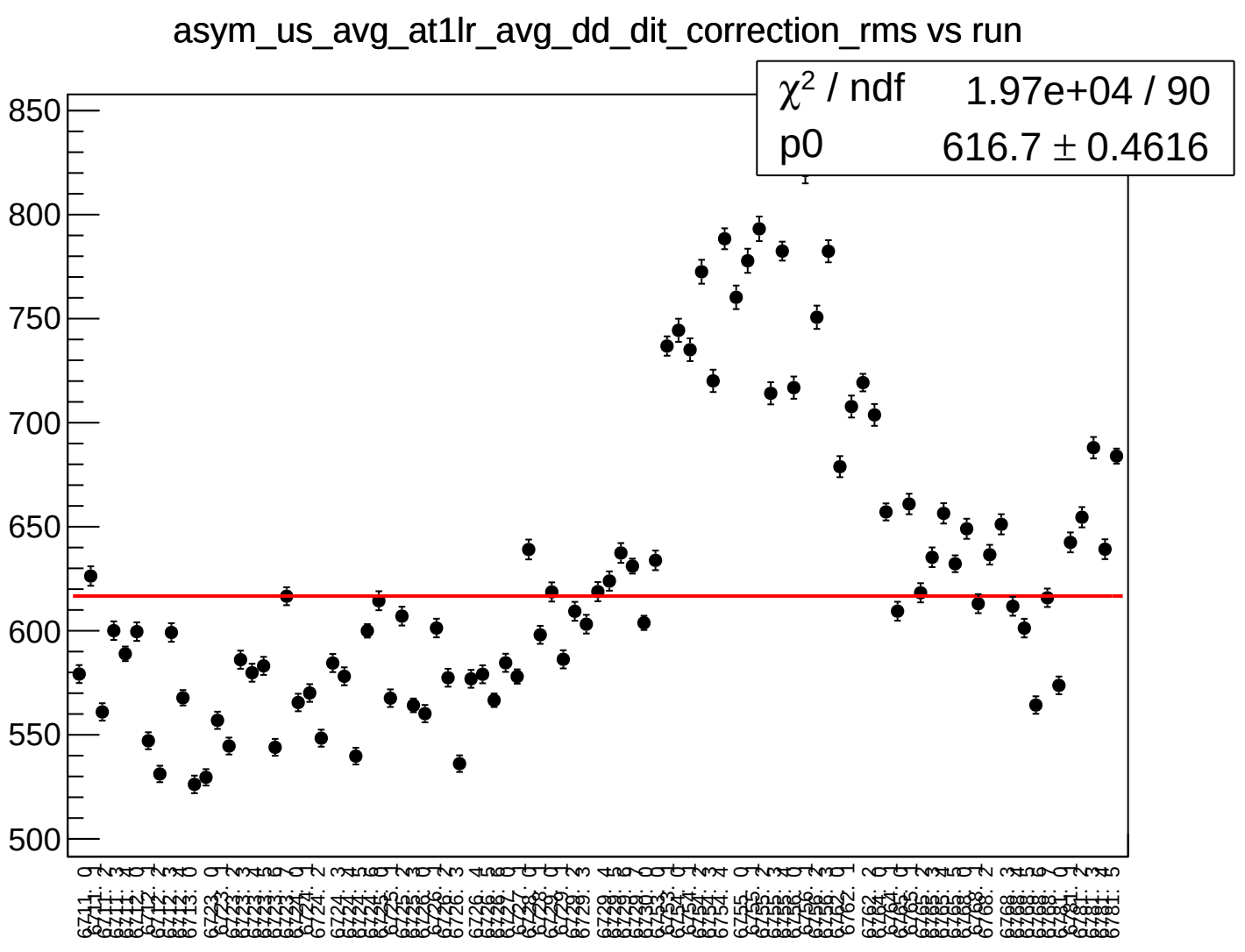

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 68.05 / 90
p0 1818 ± 1821
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −8.483
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

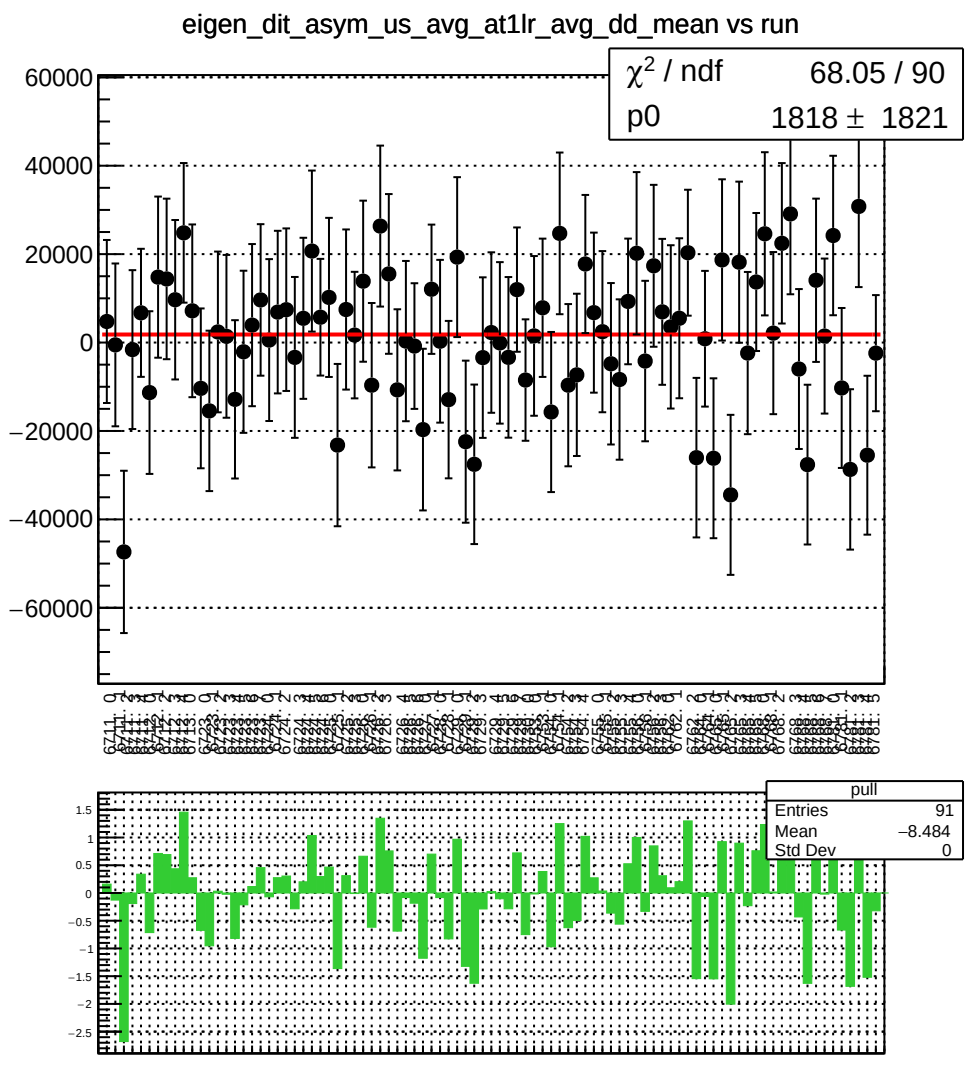

pull1D
Entries 91
Mean −0.0132
Std Dev 0.8647
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

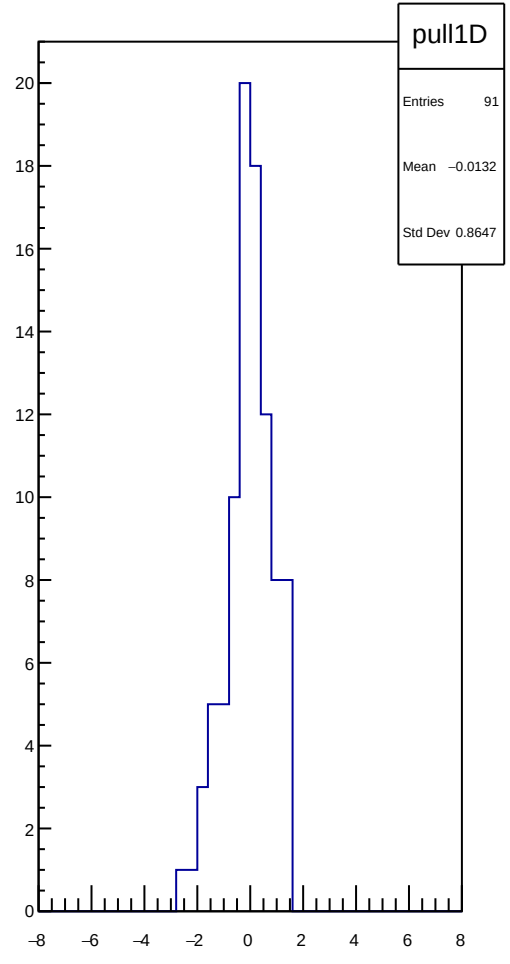

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 114.2 / 90
p0 1729 ± 1.287
1780
1760
1740
1720
1700
1680

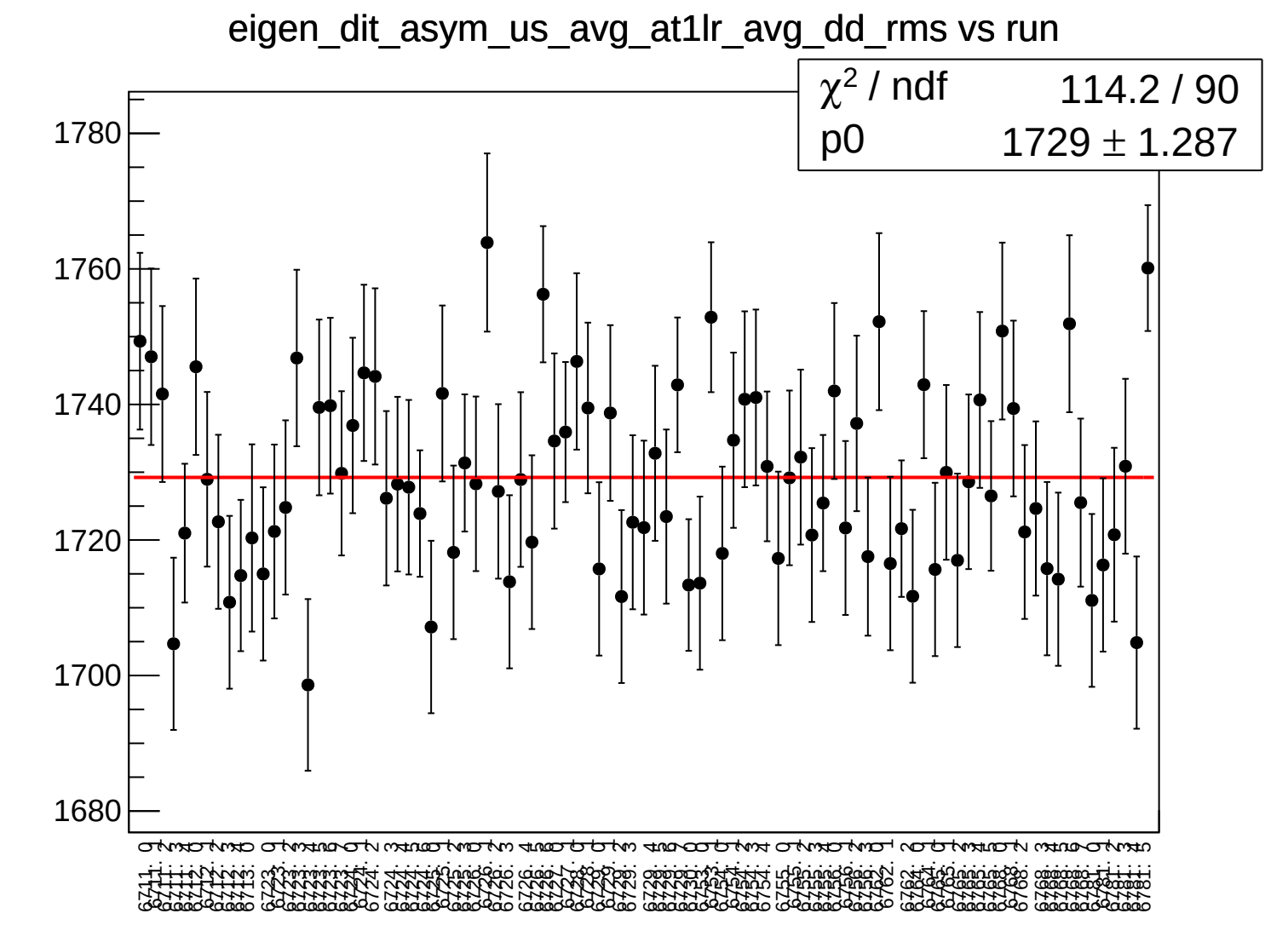

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 81.38 / 90
p0 −304.1 ± 652.9
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −82.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

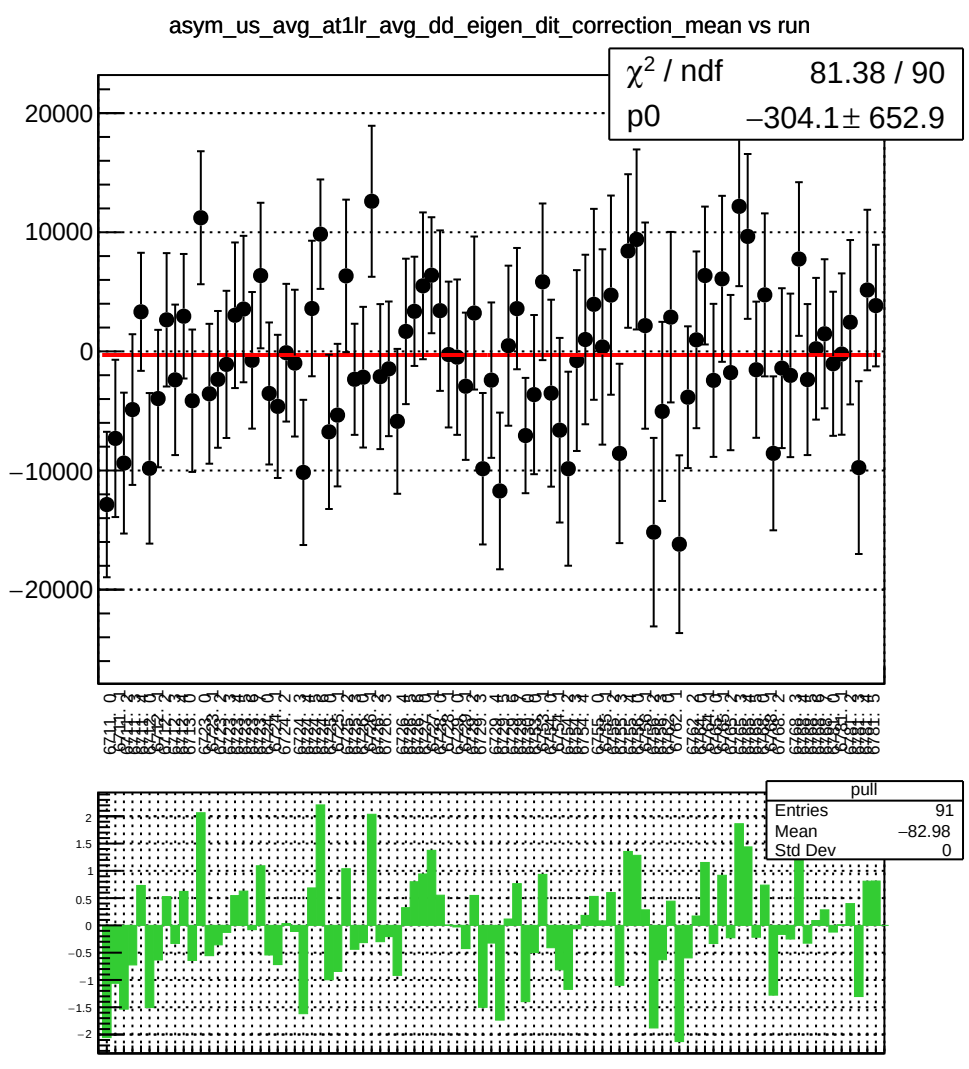

pull1D
Entries 91
Mean −0.02452
Std Dev 0.9453
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

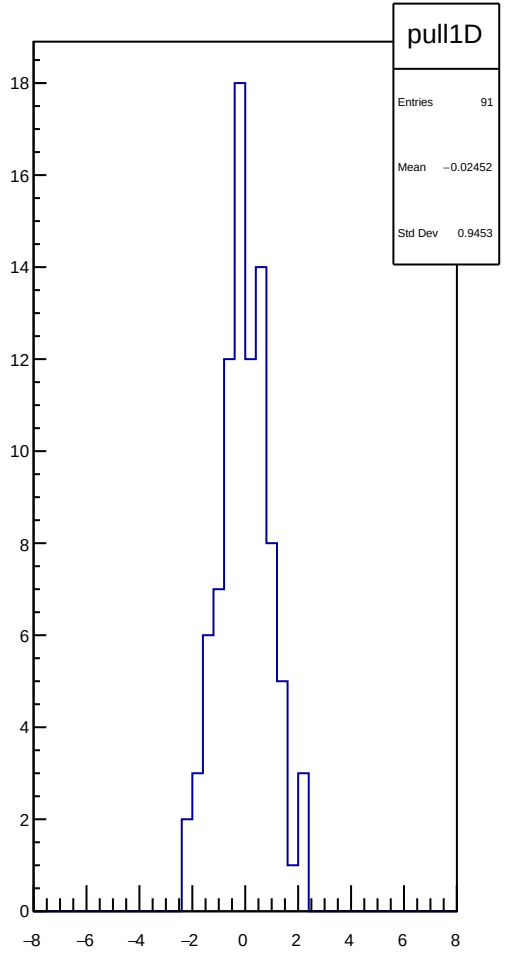

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.97e+04 / 90
p0 616.7 ± 0.4616
850
800
750
700
650
600
550
500

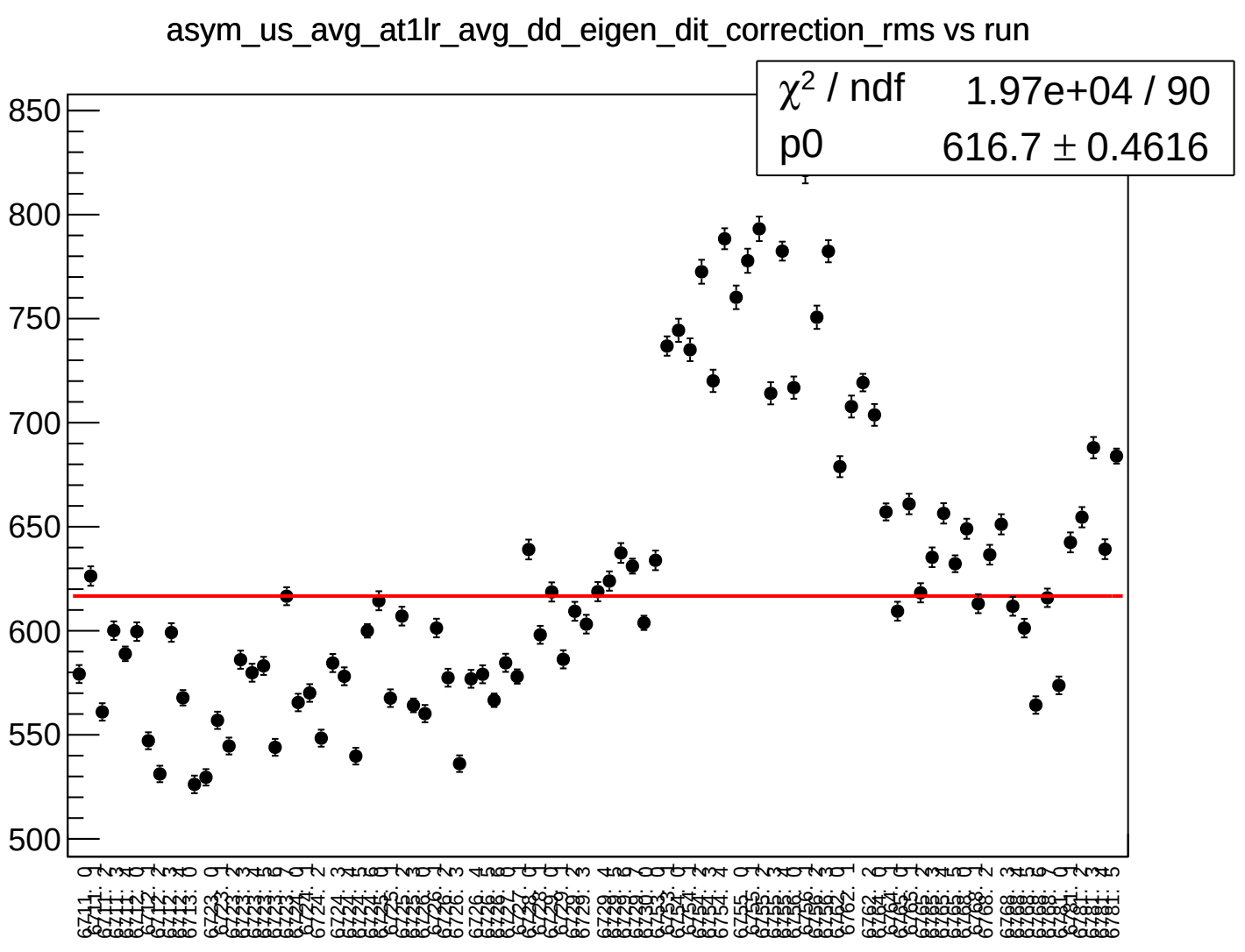

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 68.05 / 90
p0 1818 ± 1821
pull
Entries 91
Mean −8.484
Std Dev 0

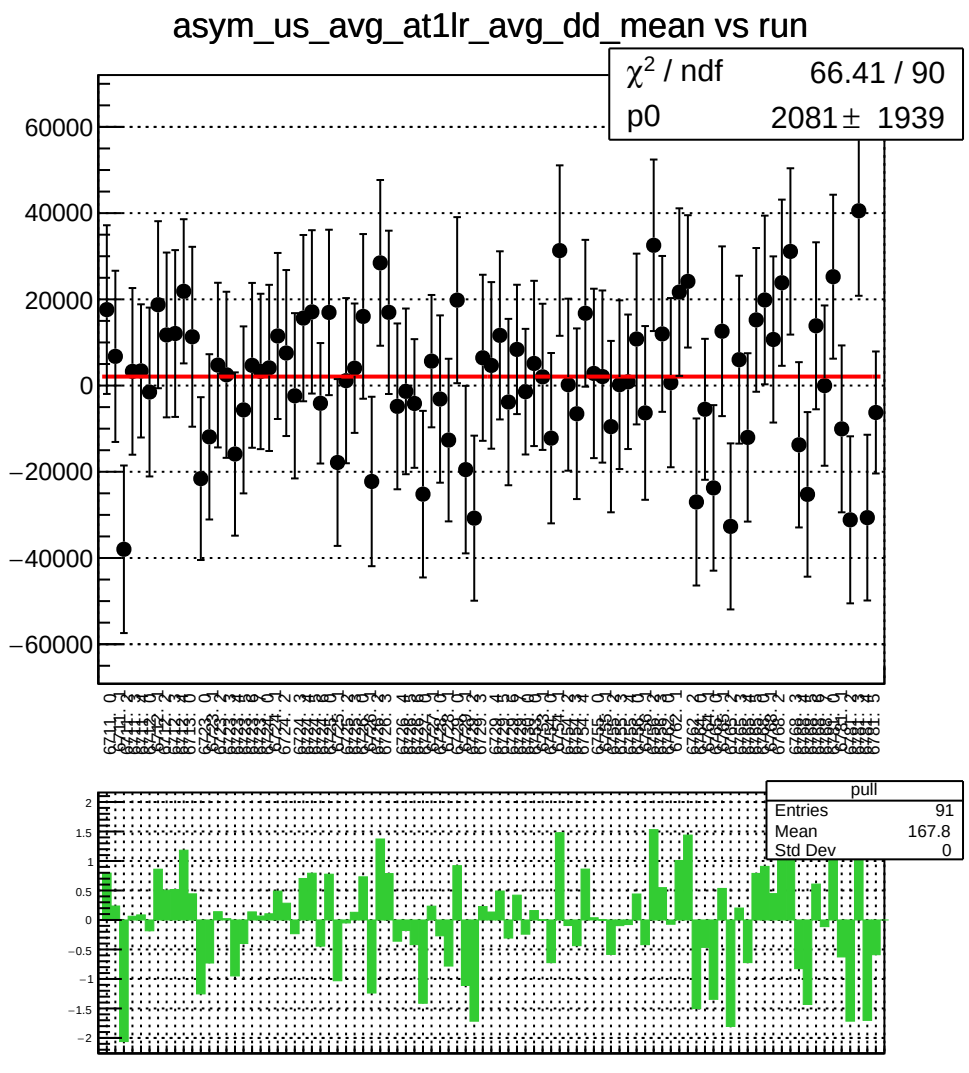

pull1D
Entries 91
Mean −0.0132
Std Dev 0.8647

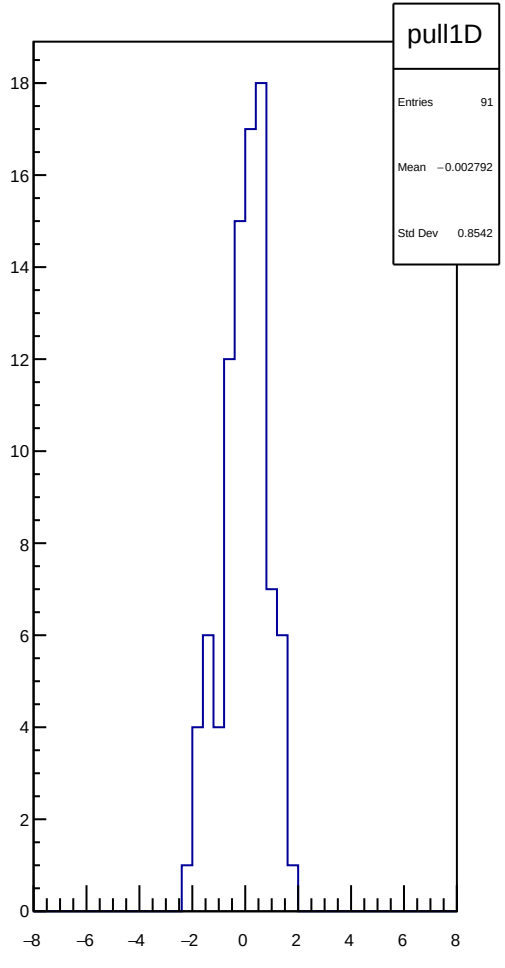

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 114.2 / 90
p0 1729 ± 1.287
1780
1760
1740
1720
1700
1680

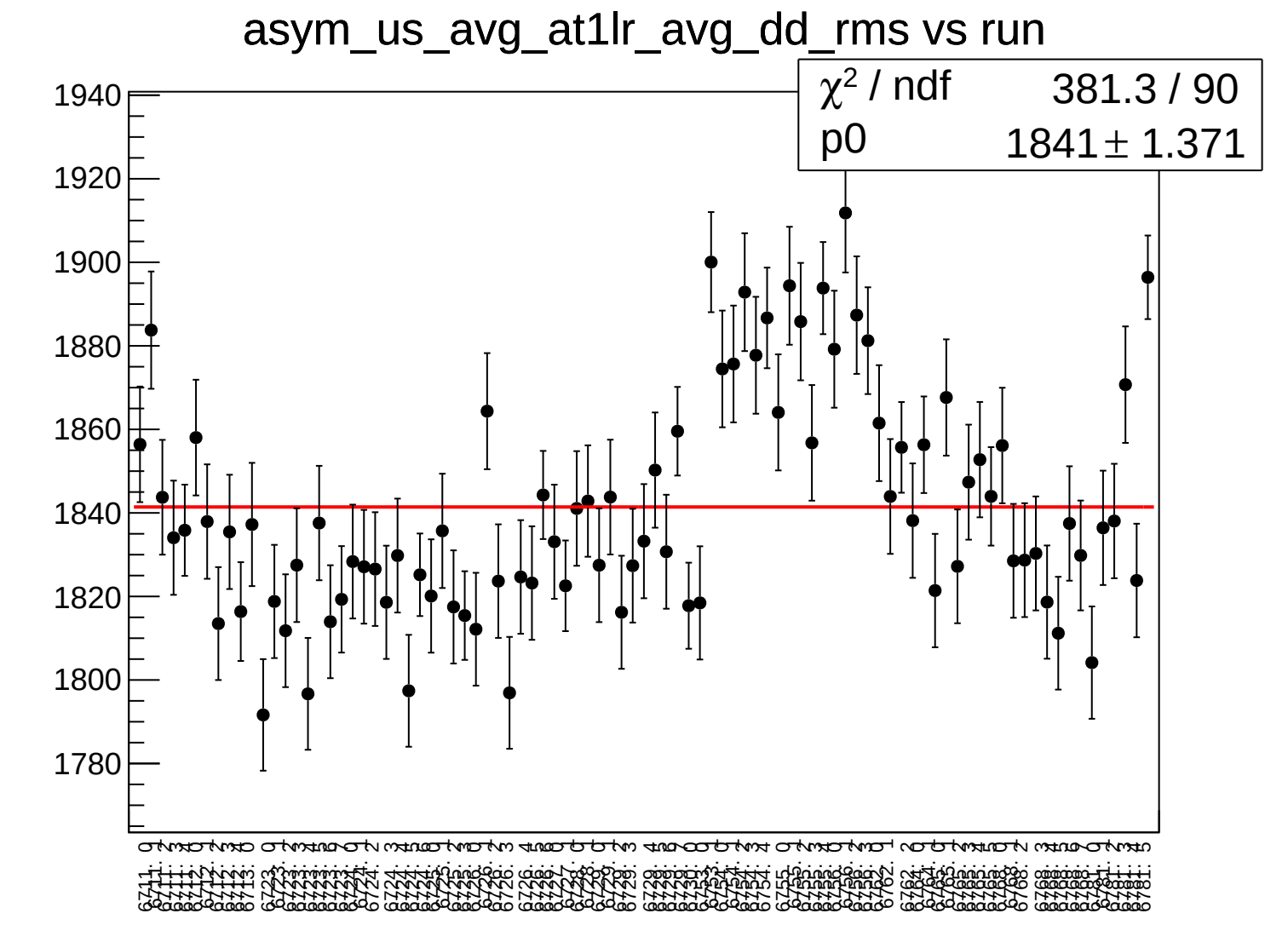

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 81.38 / 90
p0 −304.1± 652.9
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −82.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

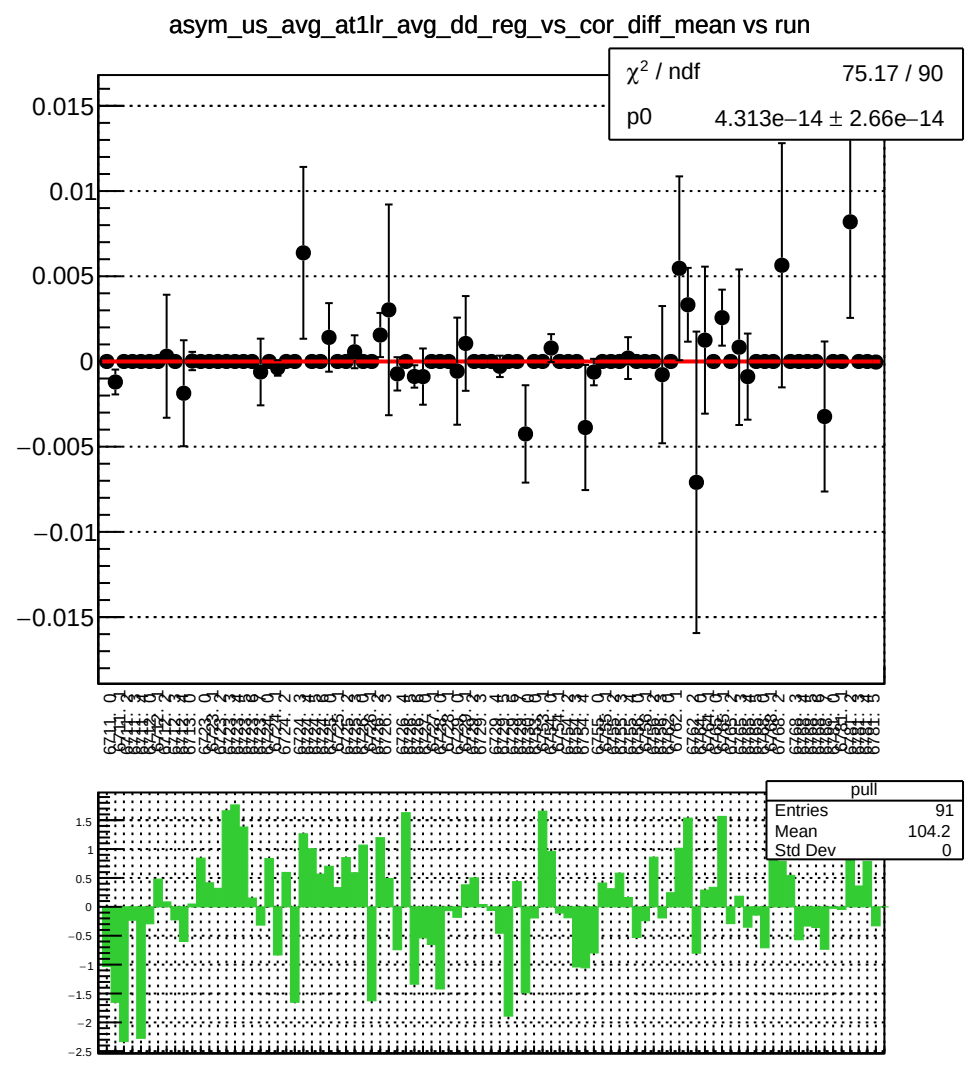

pull1D
Entries 91
Mean −0.02452
Std Dev 0.9453
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

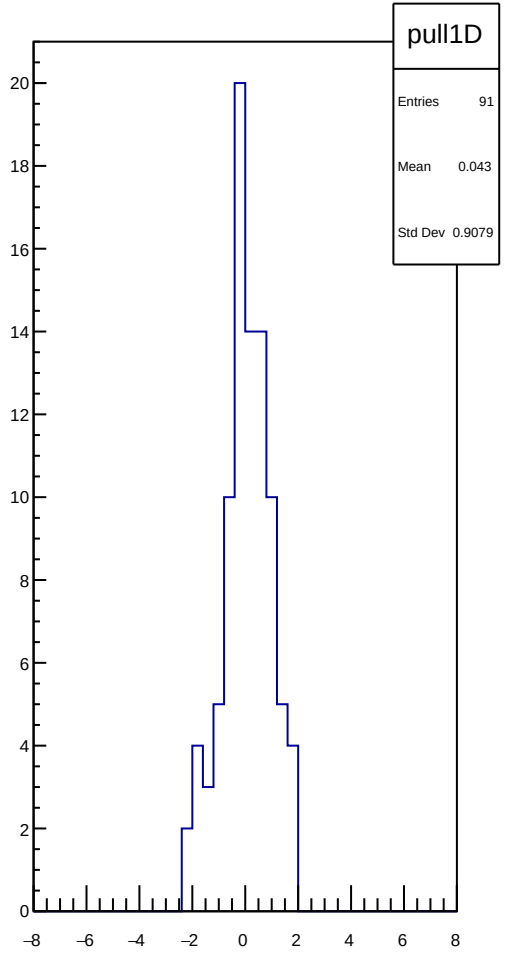

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.97e+04 / 90
p0 616.7 ± 0.4616
850
800
750
700
650
600
550
500

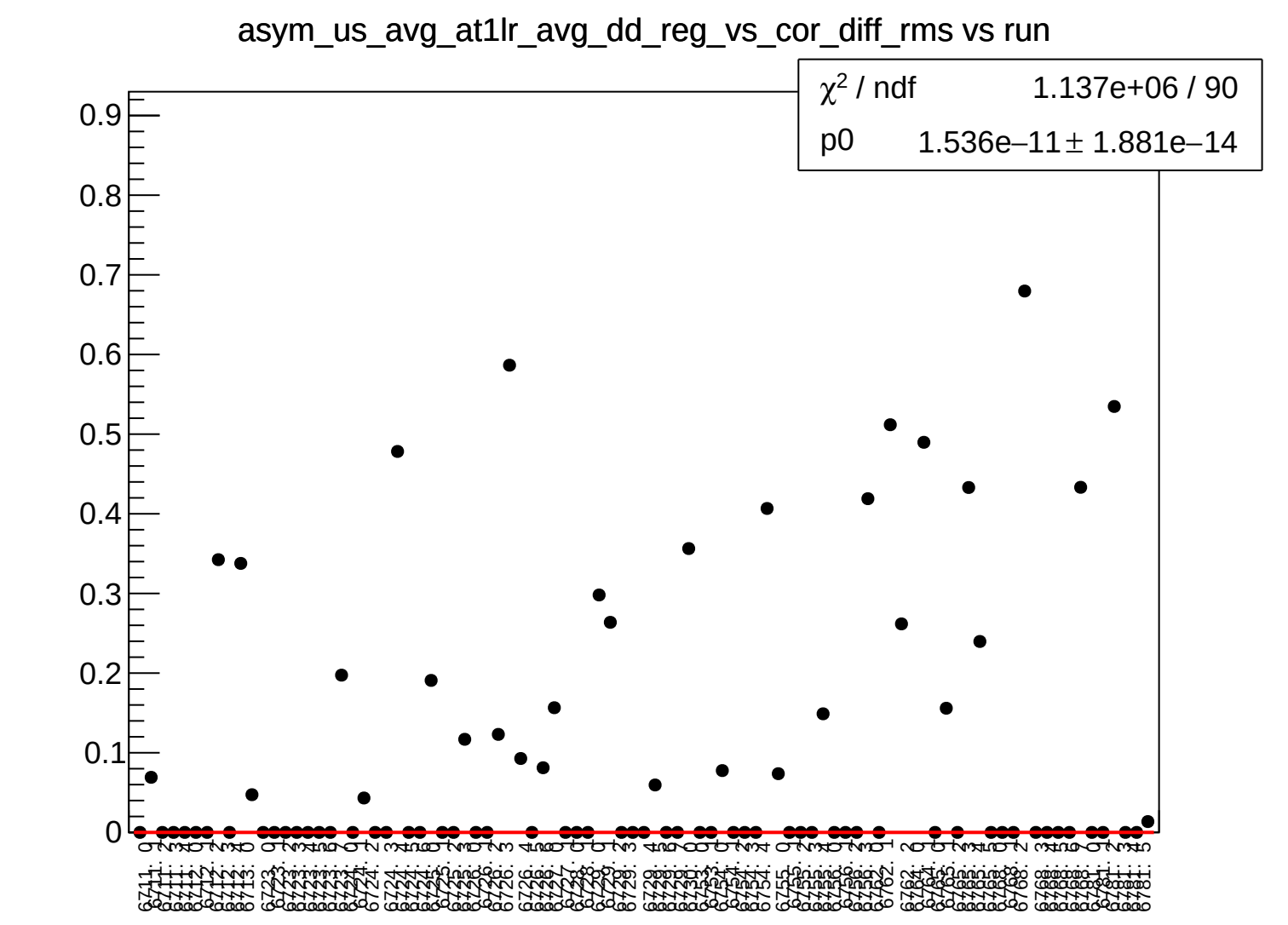

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 66.41 / 90
p0 2081 ± 1939
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 167.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

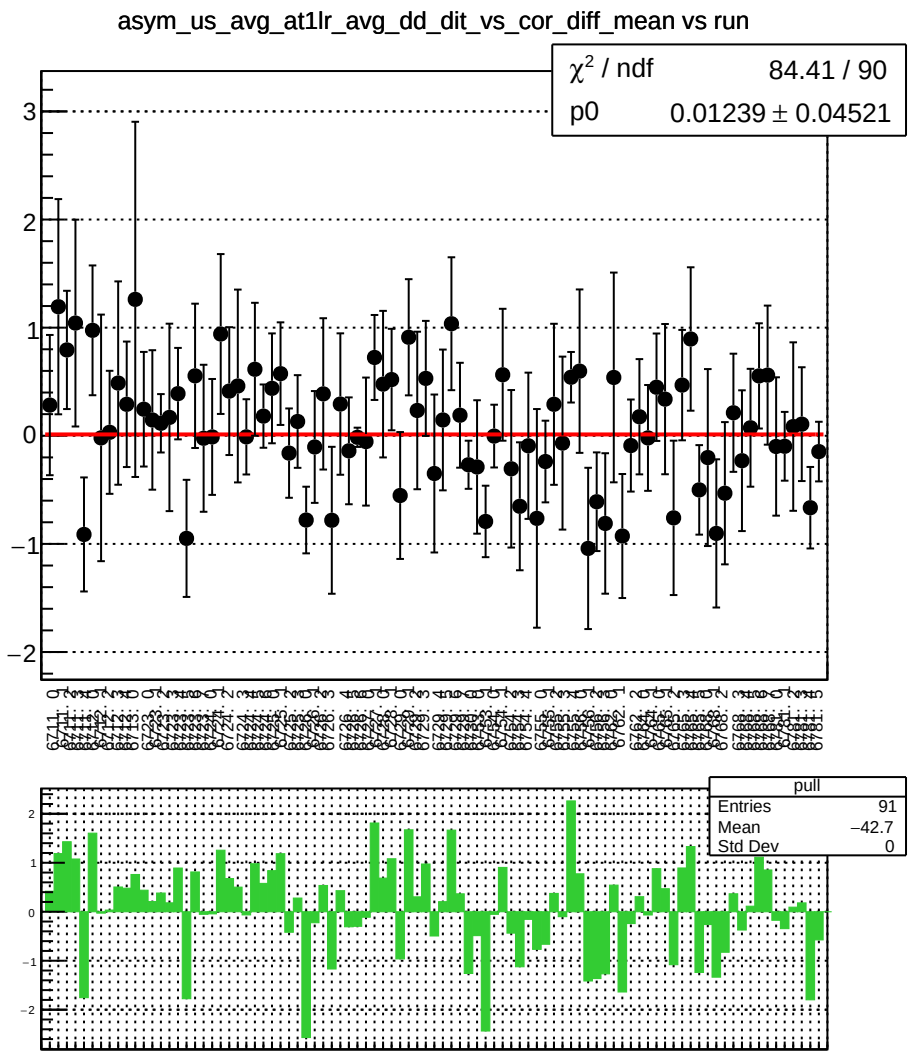

pull1D
Entries 91
Mean −0.002792
Std Dev 0.8542
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

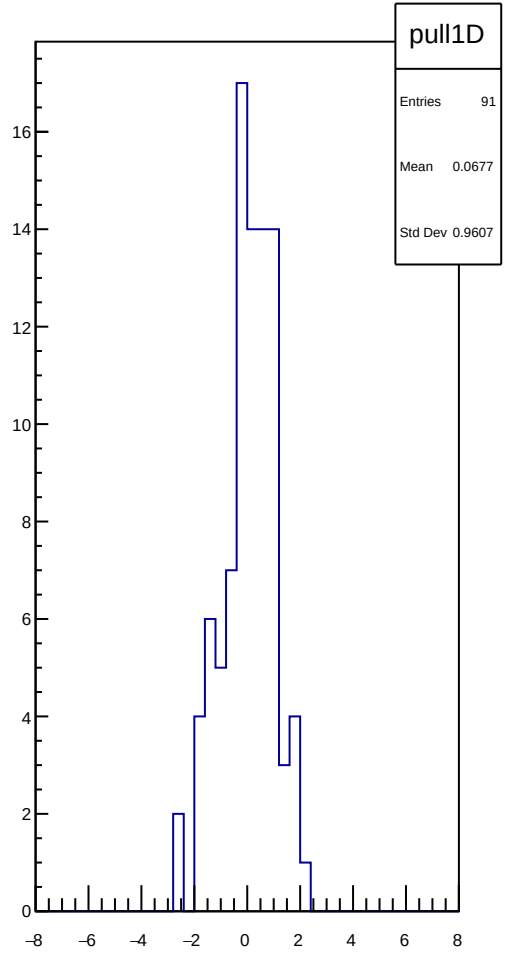

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 381.3 / 90
p0 1841 ± 1.371
1940
1920
1900
1880
1860
1840
1820
1800
1780

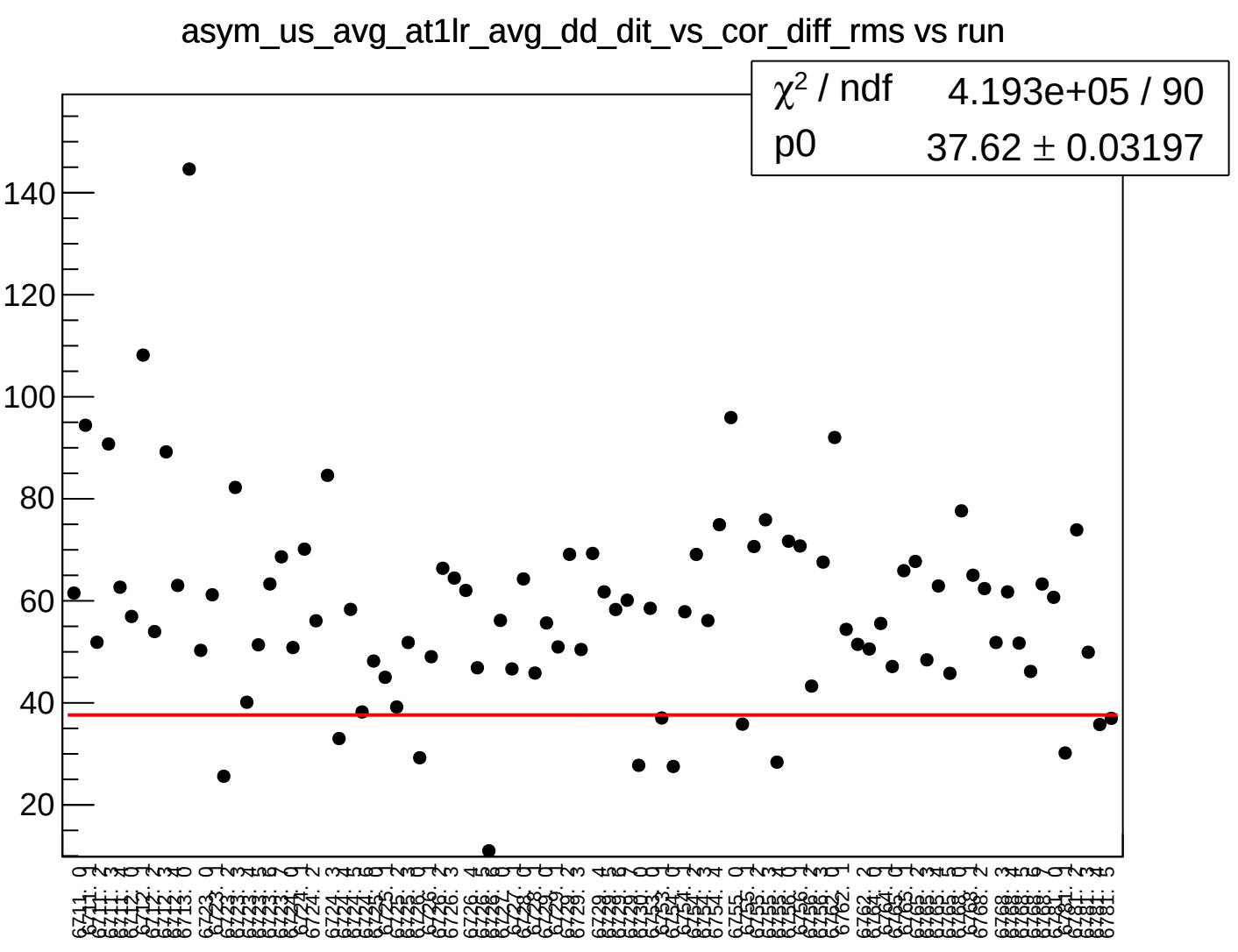

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.17 / 90
p0 4.313e−14 ± 2.66e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 91
Mean 104.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

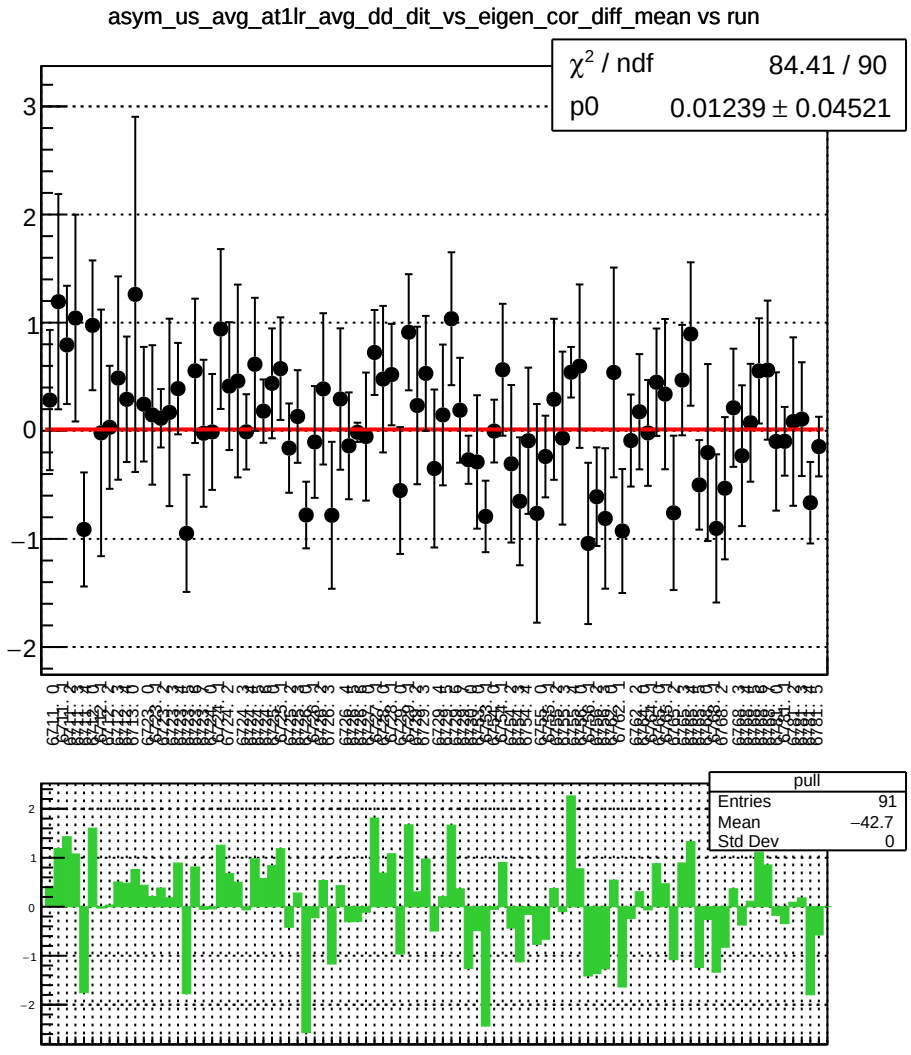

pull1D
Entries 91
Mean 0.043
Std Dev 0.9079
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

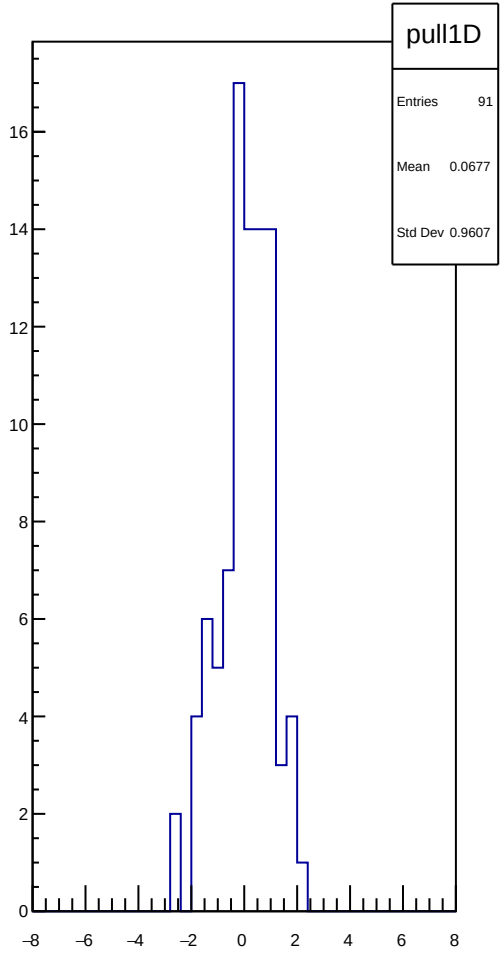

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.137e+06 / 90
p0 1.536e−11 ± 1.881e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

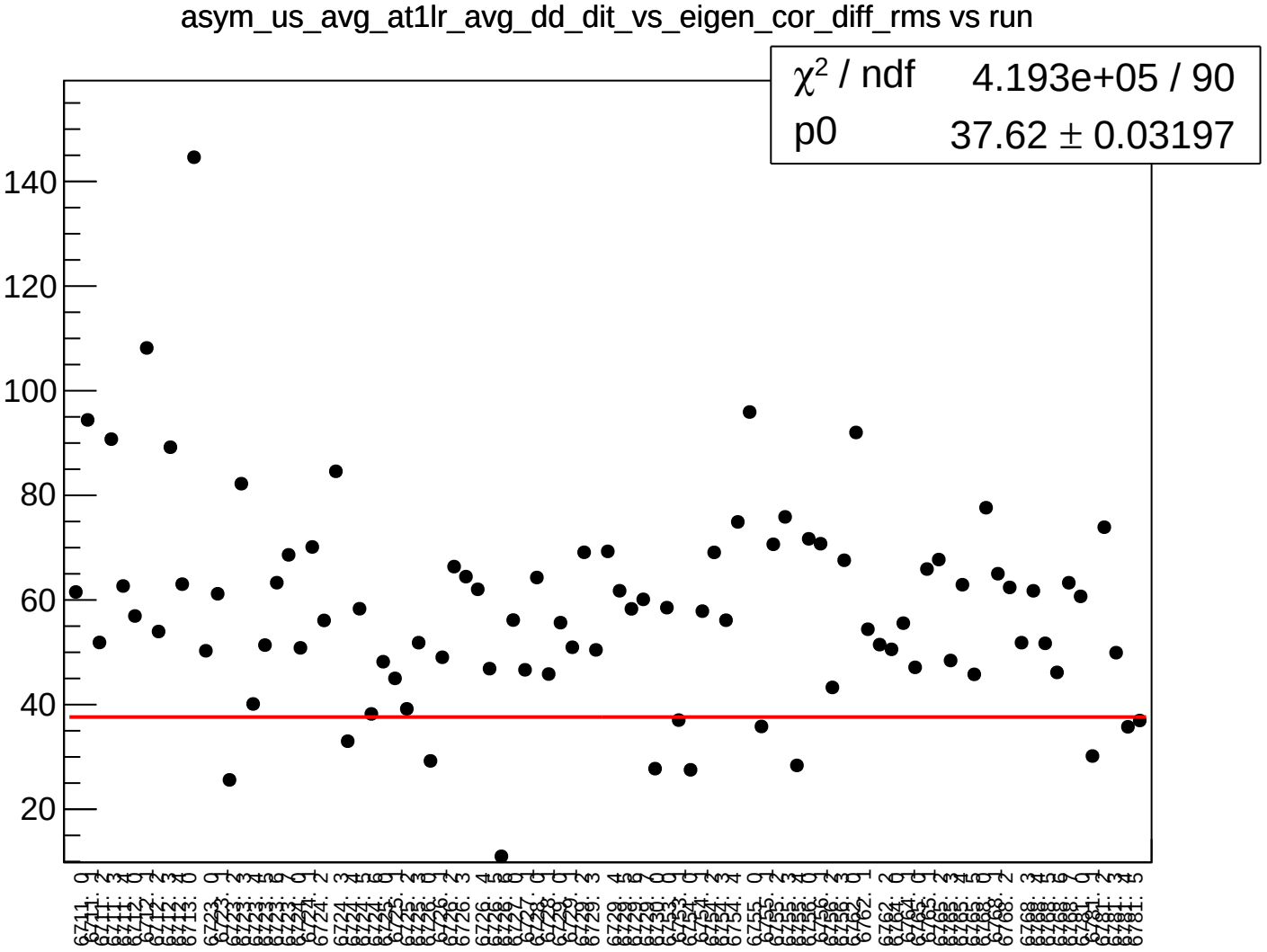

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.41 / 90
p0 0.01239 ± 0.04521
pull
Entries 91
Mean −42.7
Std Dev 0

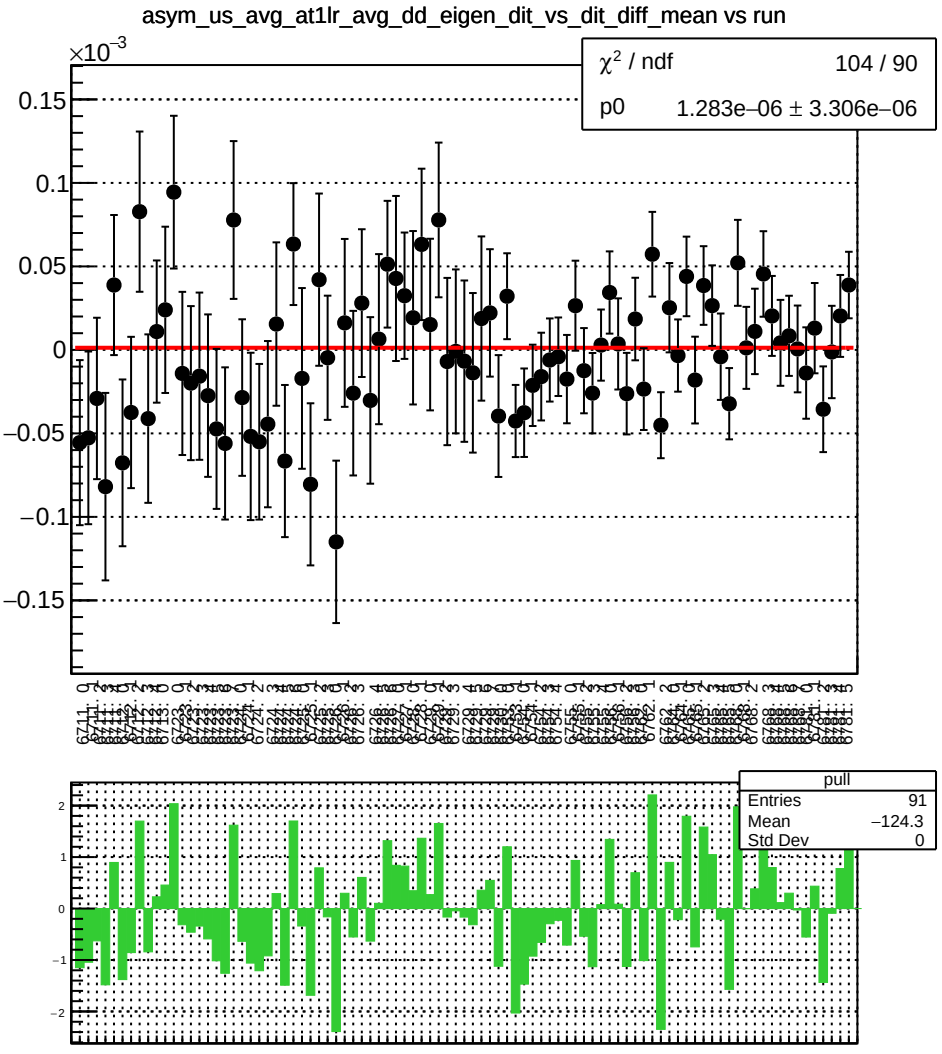

pull1D
Entries 91
Mean 0.0677
Std Dev 0.9607

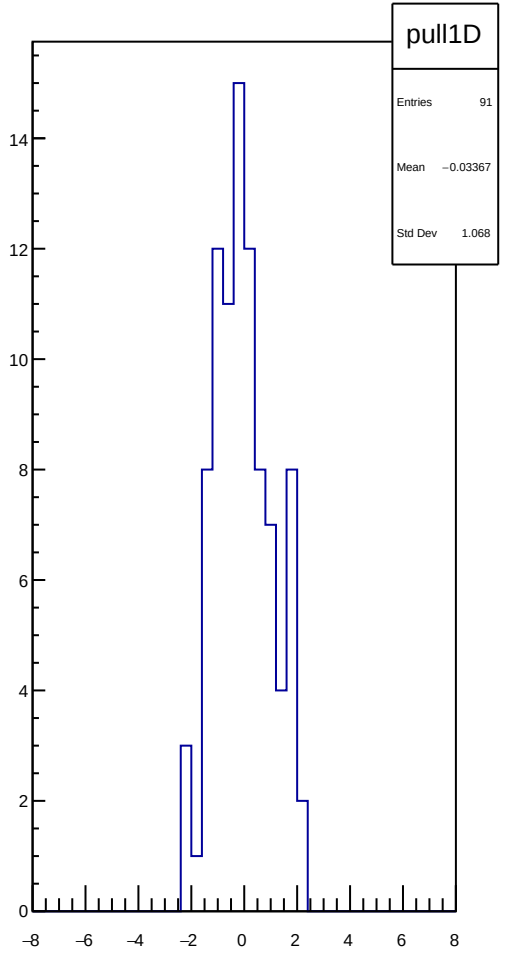

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.193e+05 / 90
p0 37.62 ± 0.03197
140
120
100
80
60
40
20

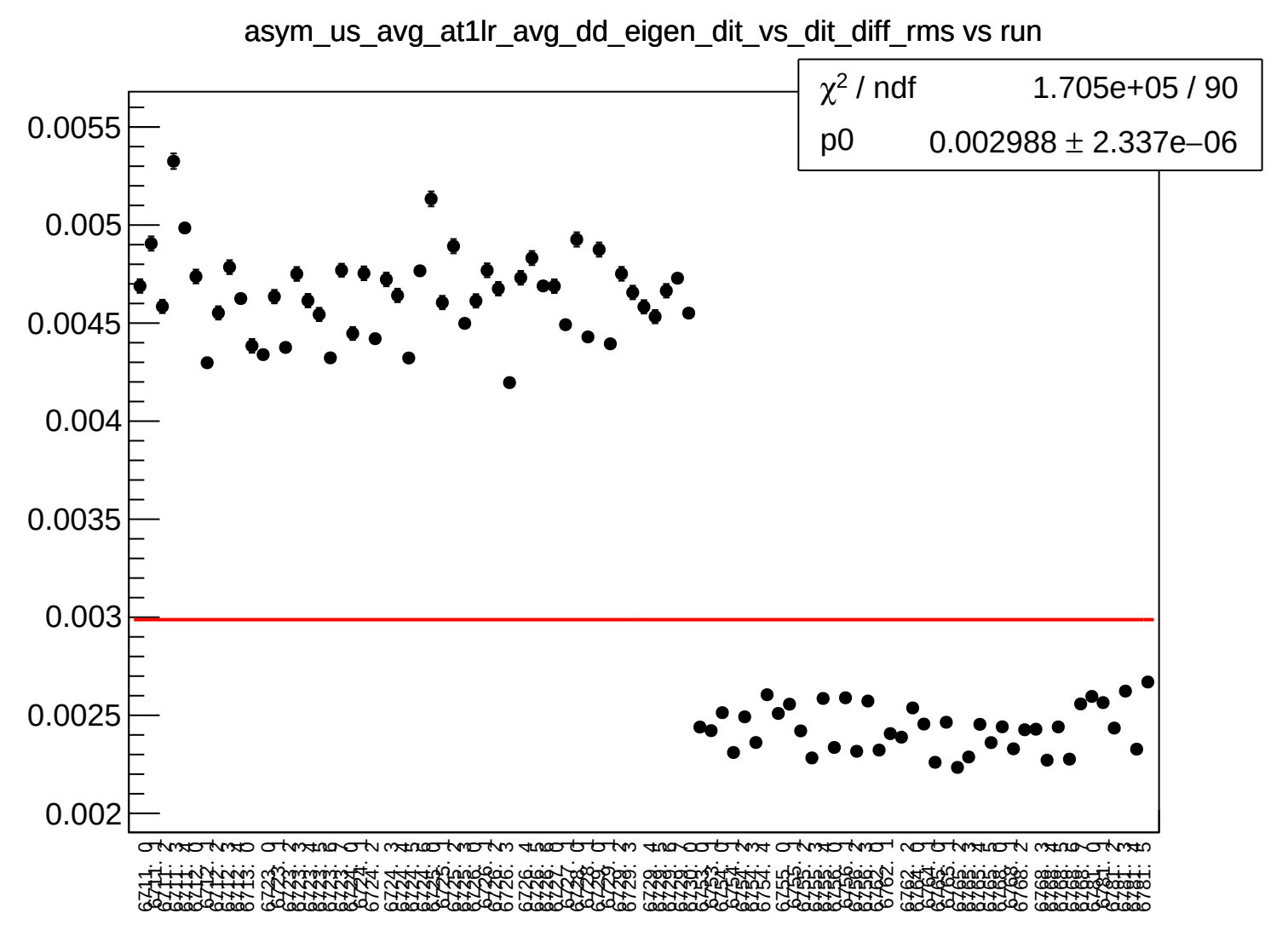

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.41 / 90
p0 0.01239 ± 0.04521
pull
Entries 91
Mean −42.7
Std Dev 0

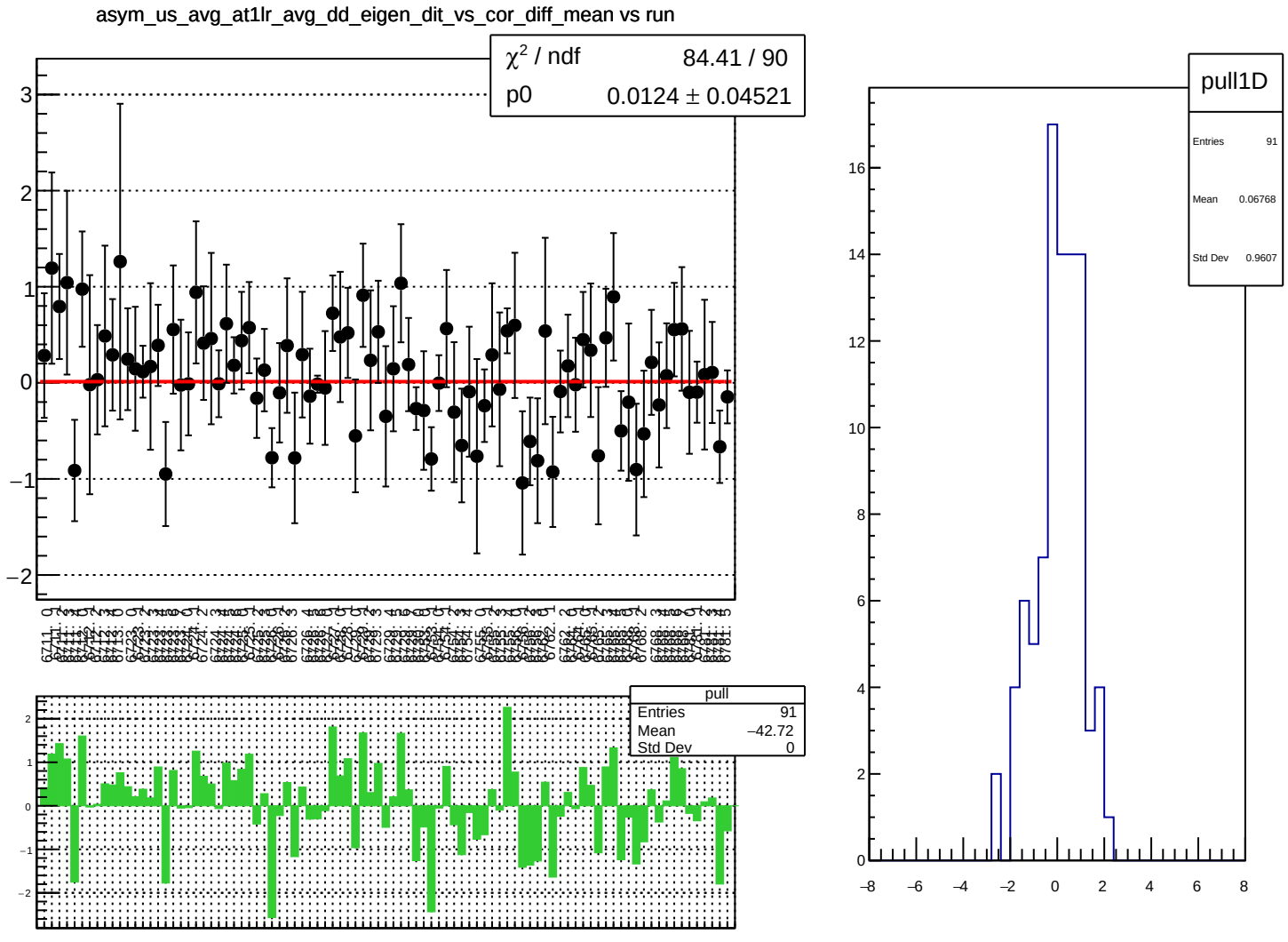

pull1D
Entries 91
Mean 0.0677
Std Dev 0.9607

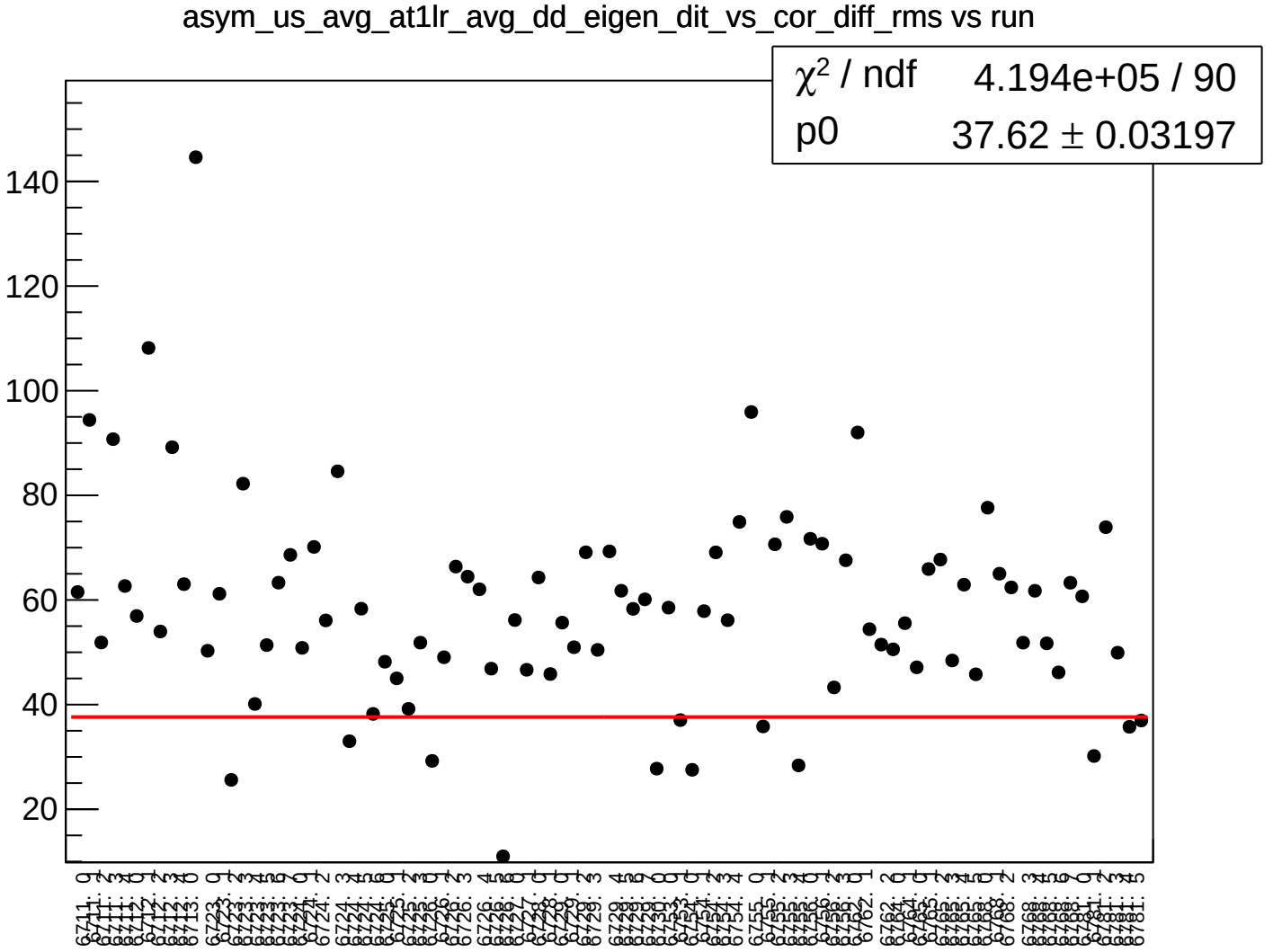

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.193e+05 / 90
p0 37.62 ± 0.03197
140
120
100
80
60
40
20

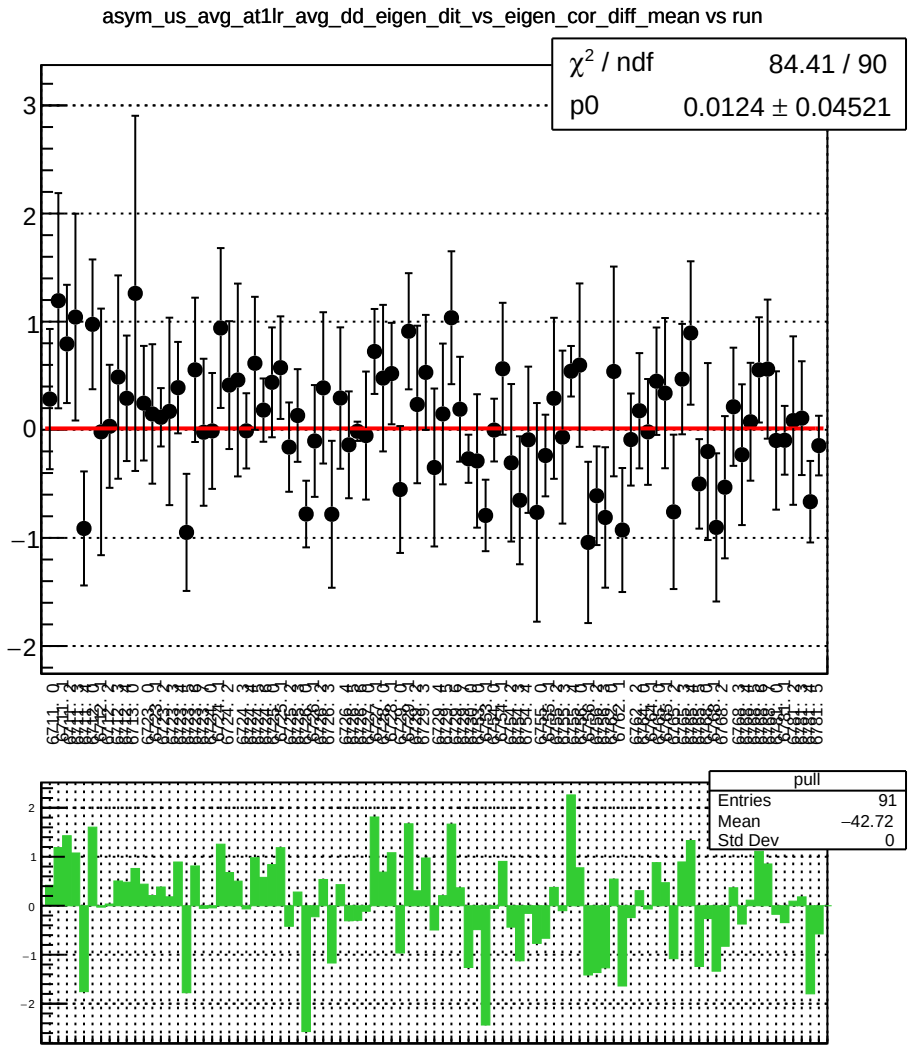

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104 / 90
p0 1.283e−06 ± 3.306e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean −124.3
Std Dev 0
2
1
0
−1
−2

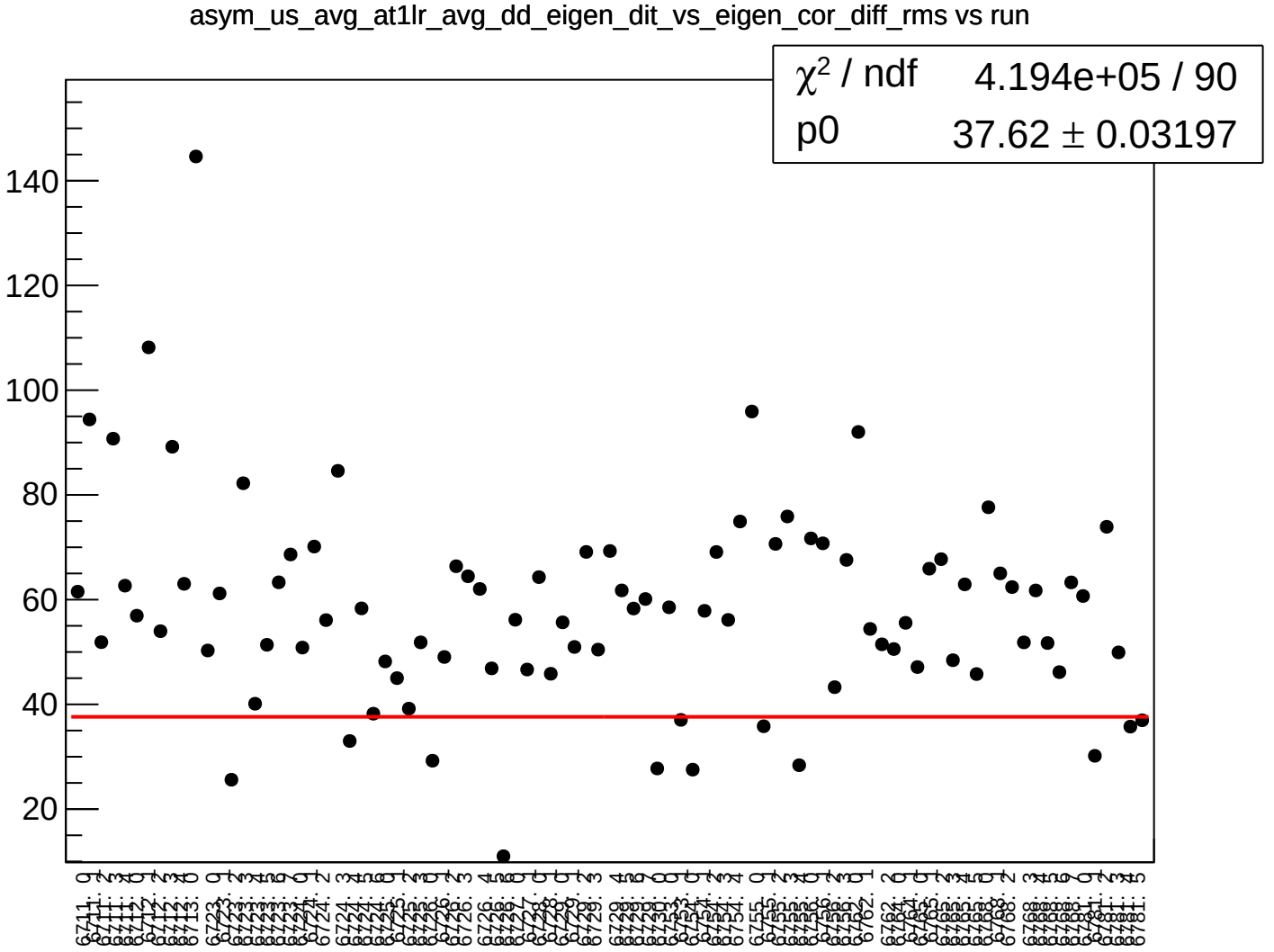

pull1D
Entries 91
Mean −0.03367
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

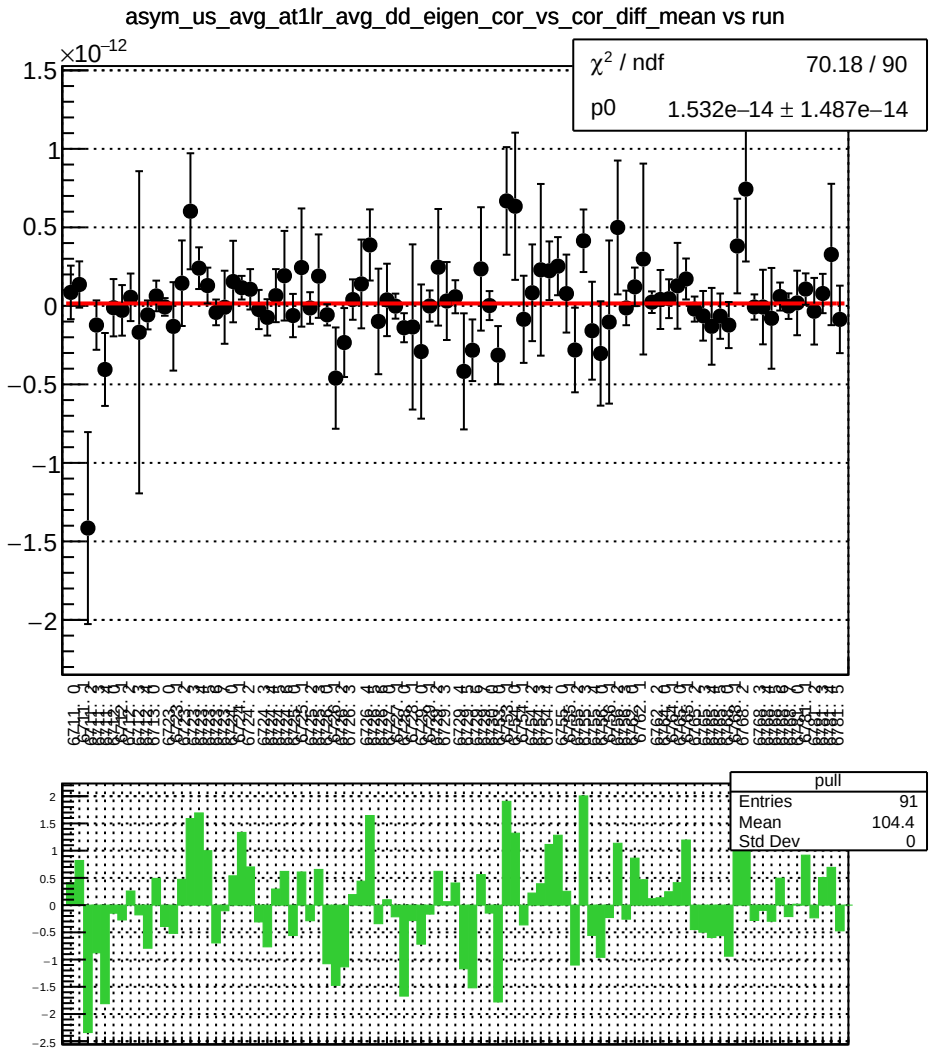

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ^2 / ndf 1.705e+05 / 90
p0 0.002988 ± 2.337e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

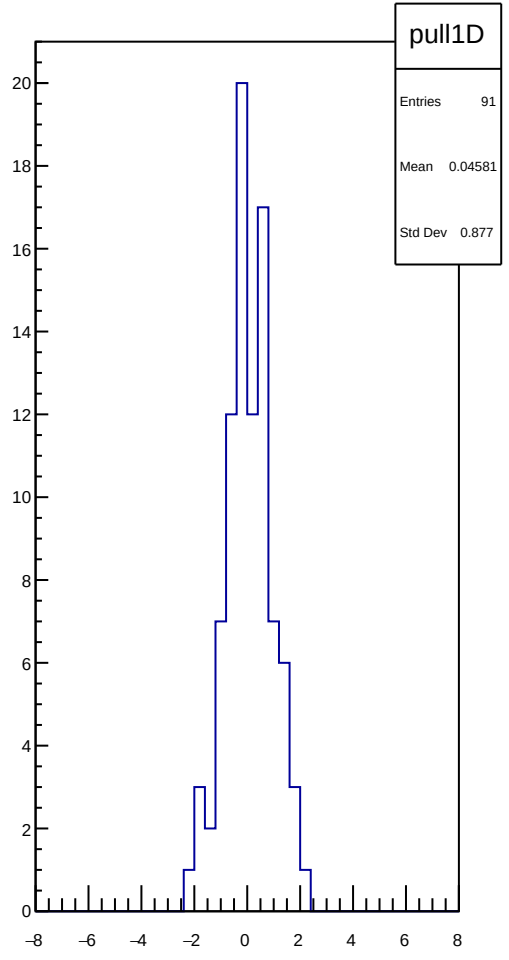

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.41 / 90
p0 0.0124 ± 0.04521
pull
Entries 91
Mean −42.72
Std Dev 0
pull1D
Entries 91
Mean 0.06768
Std Dev 0.9607

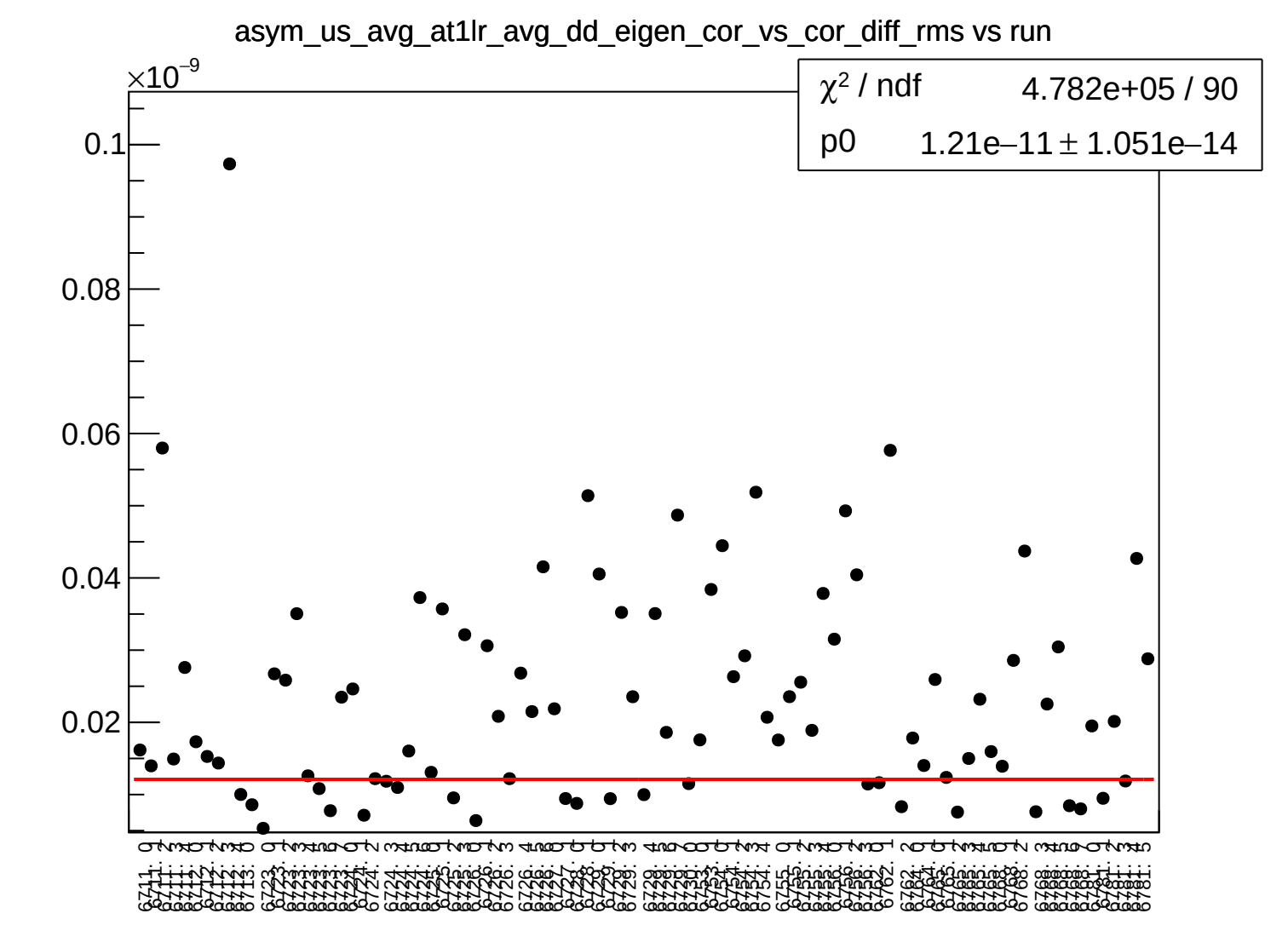

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.194e+05 / 90
p0 37.62 ± 0.03197
140
120
100
80
60
40
20

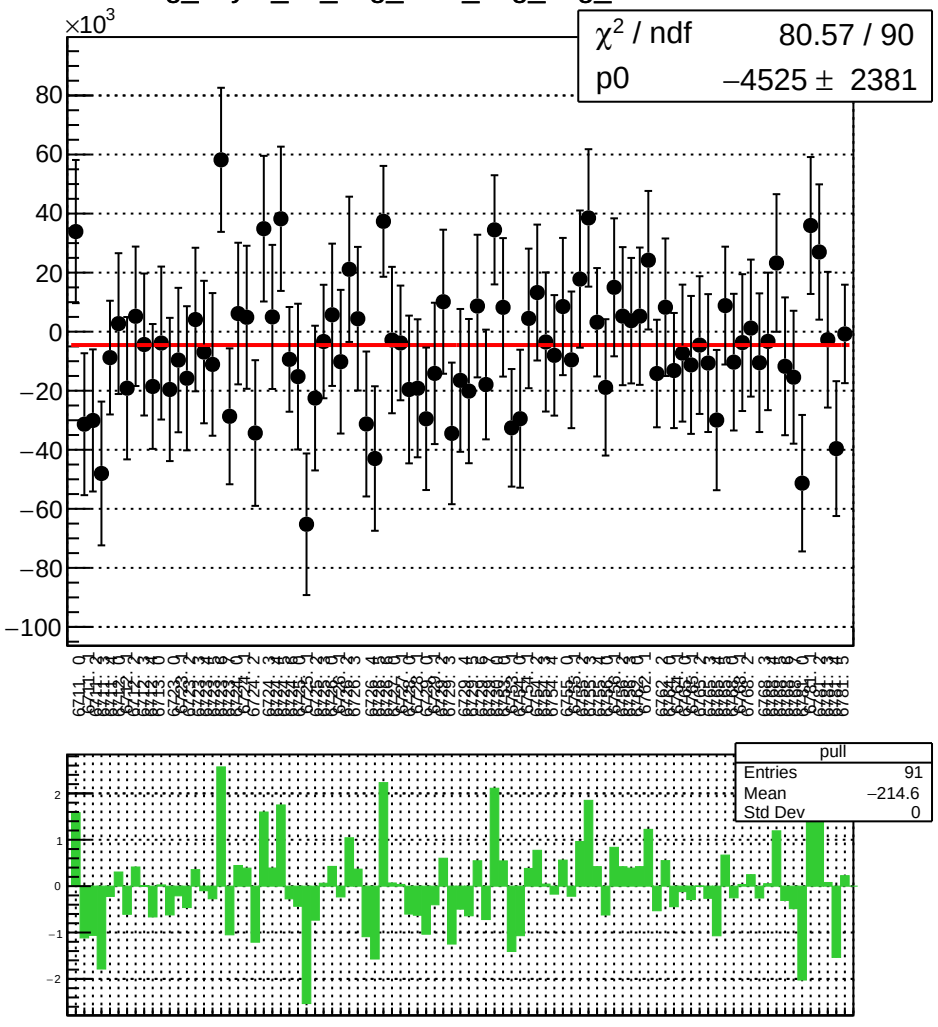

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.41 / 90
p0 0.0124 ± 0.04521
pull
Entries 91
Mean −42.72
Std Dev 0
pull1D
Entries 91
Mean 0.06768
Std Dev 0.9607

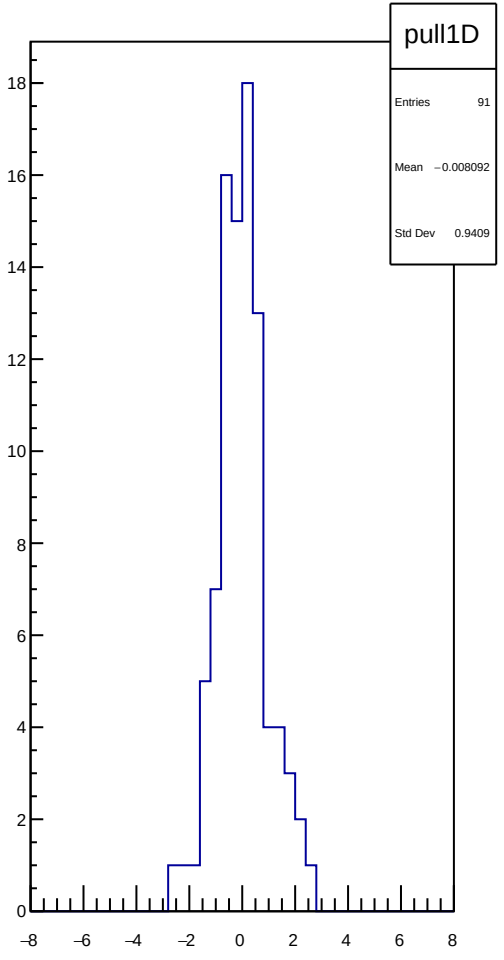

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.194e+05 / 90
p0 37.62 ± 0.03197
140
120
100
80
60
40
20

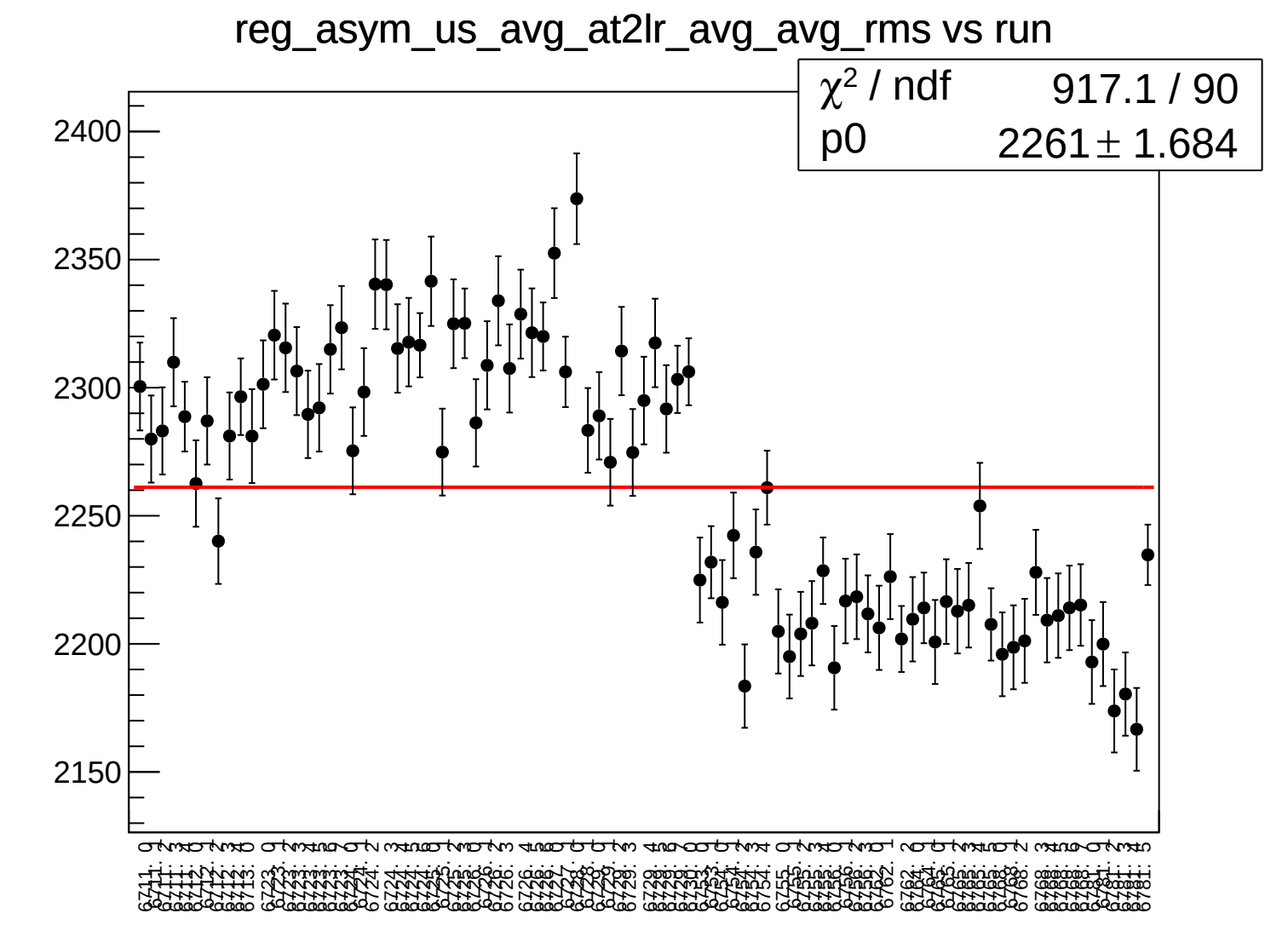

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.18 / 90
p0 1.532e−14 ± 1.487e−14
pull
Entries 91
Mean 104.4
Std Dev 0

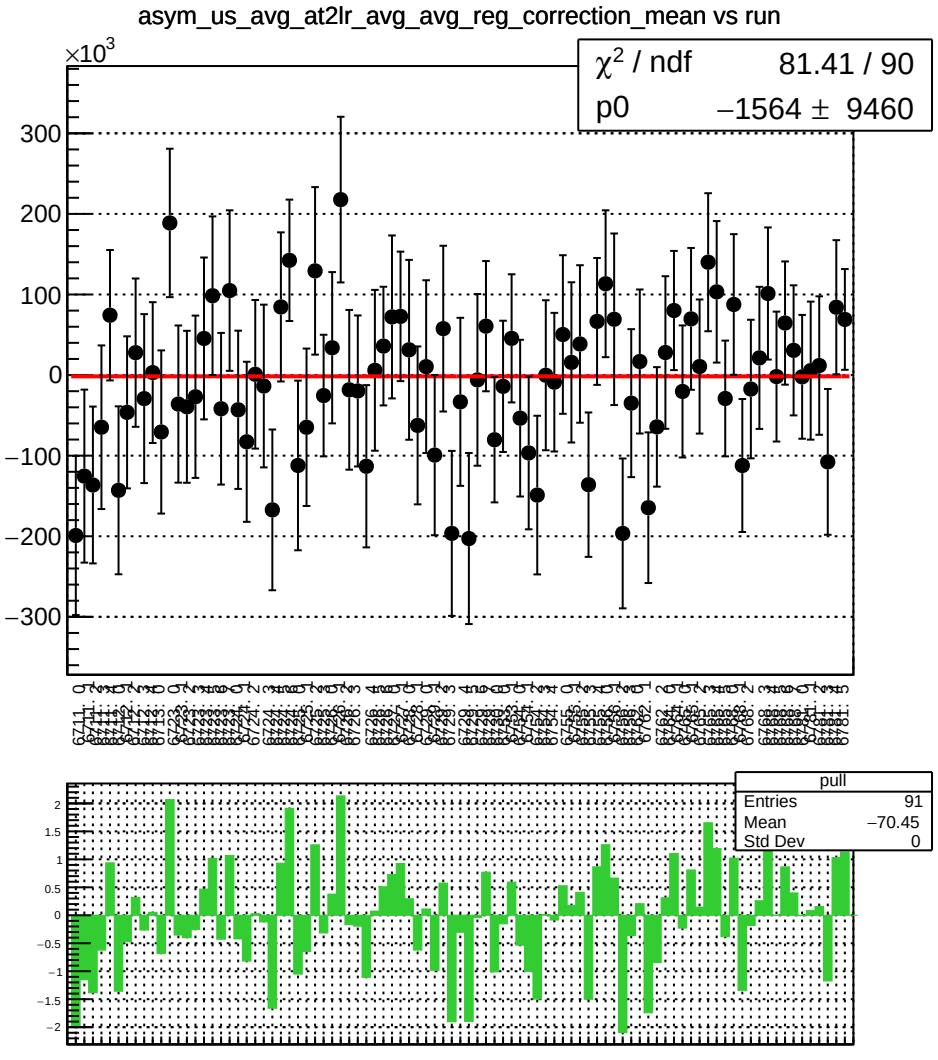

pull1D
Entries 91
Mean 0.04581
Std Dev 0.877

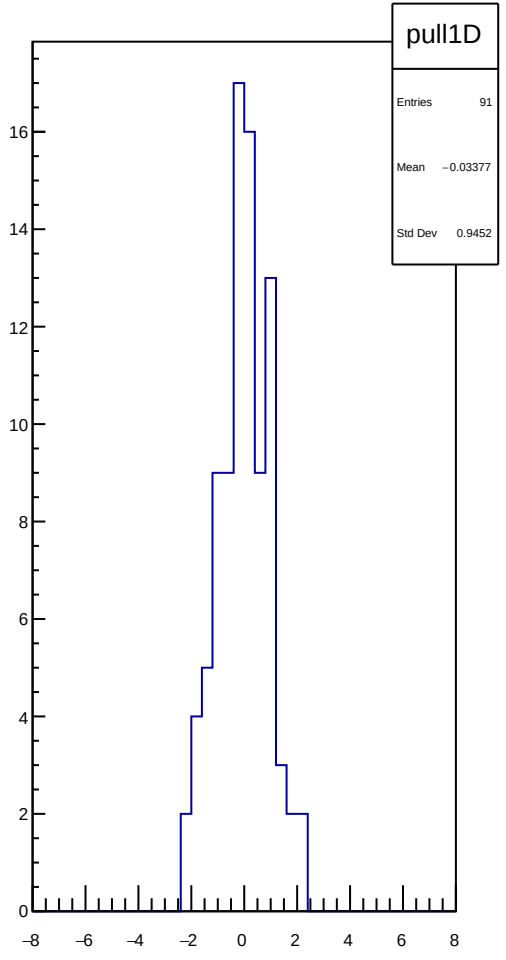

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.782e+05 / 90
p0 1.21e−11 ± 1.051e−14
0.1
0.08
0.06
0.04
0.02

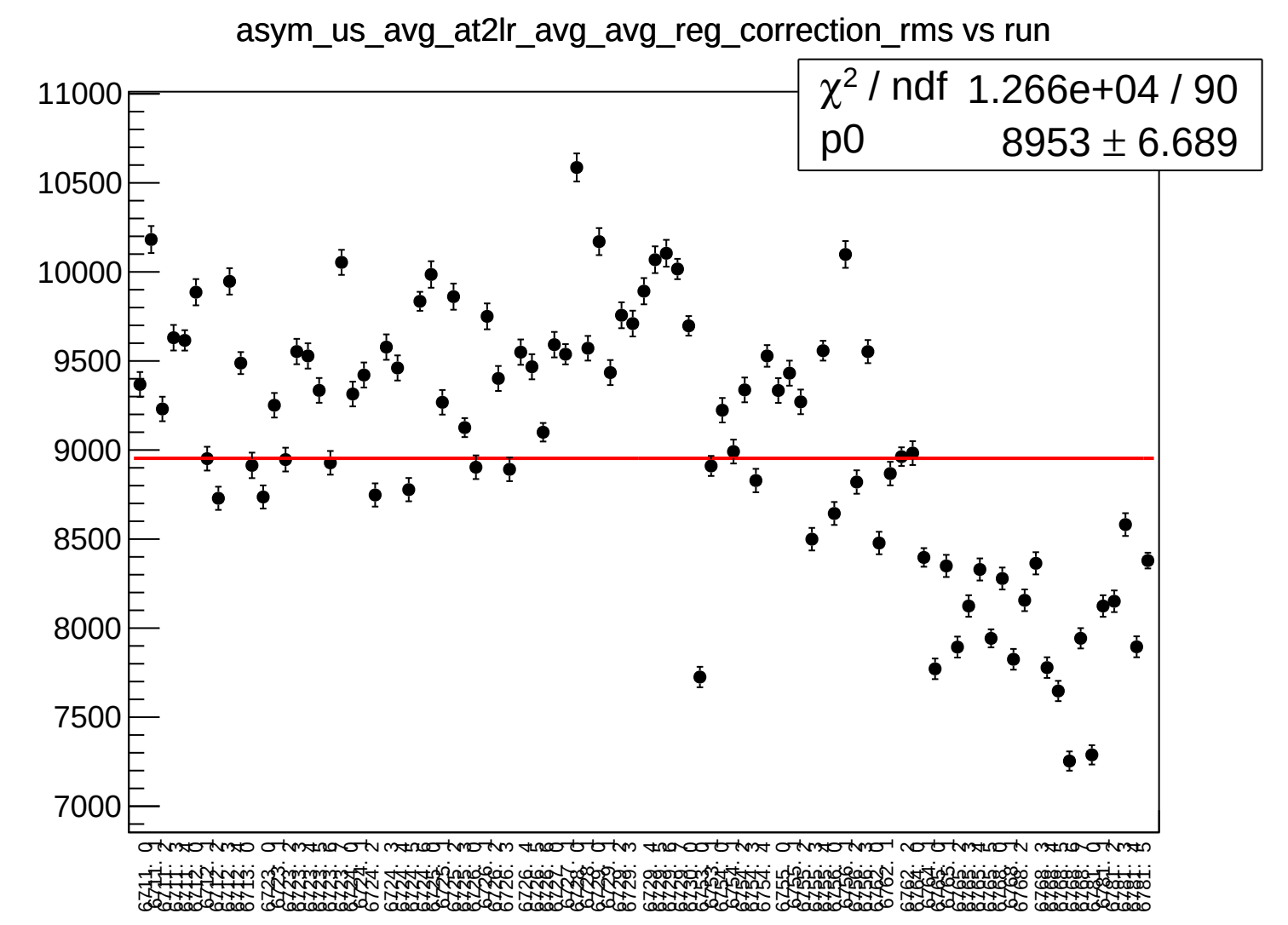

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 80.57 / 90
p0 −4525 ± 2381
pull
Entries 91
Mean −214.6
Std Dev 0

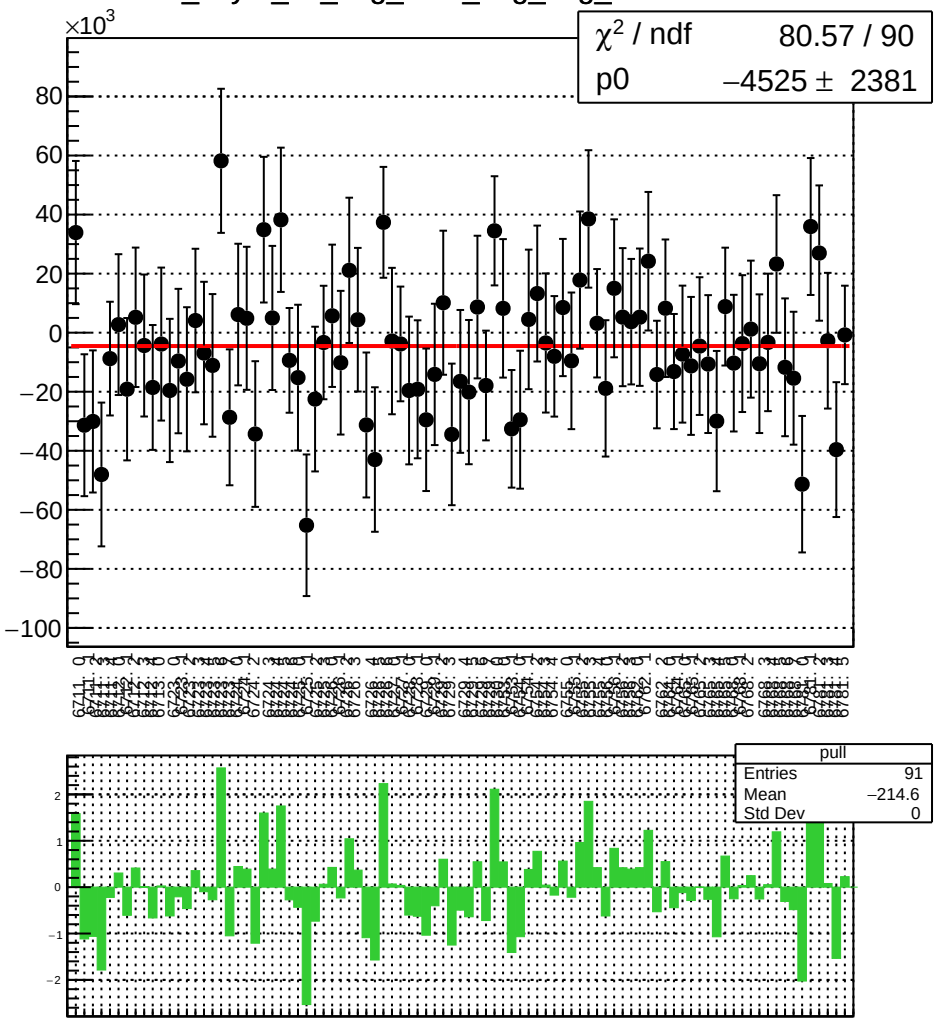

pull1D
Entries 91
Mean −0.008092
Std Dev 0.9409

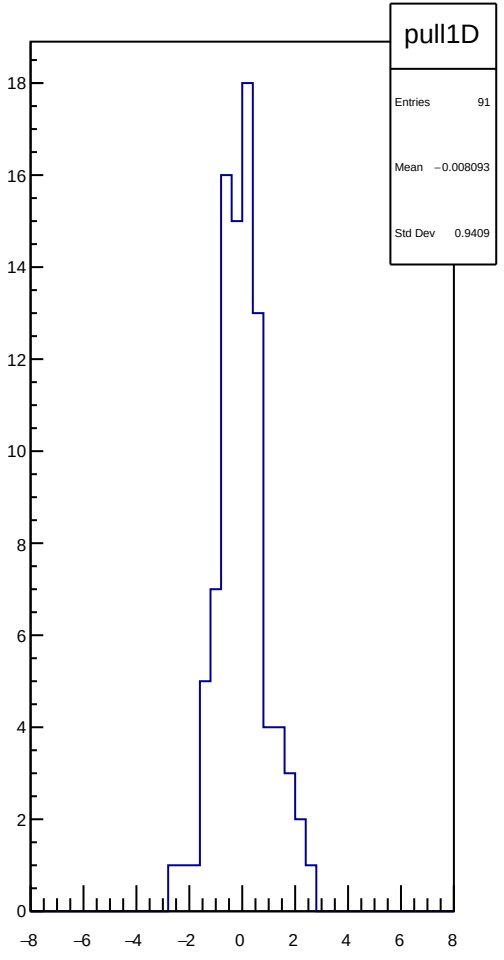

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 917.1 / 90
p0 2261 ± 1.684
2400
2350
2300
2250
2200
2150

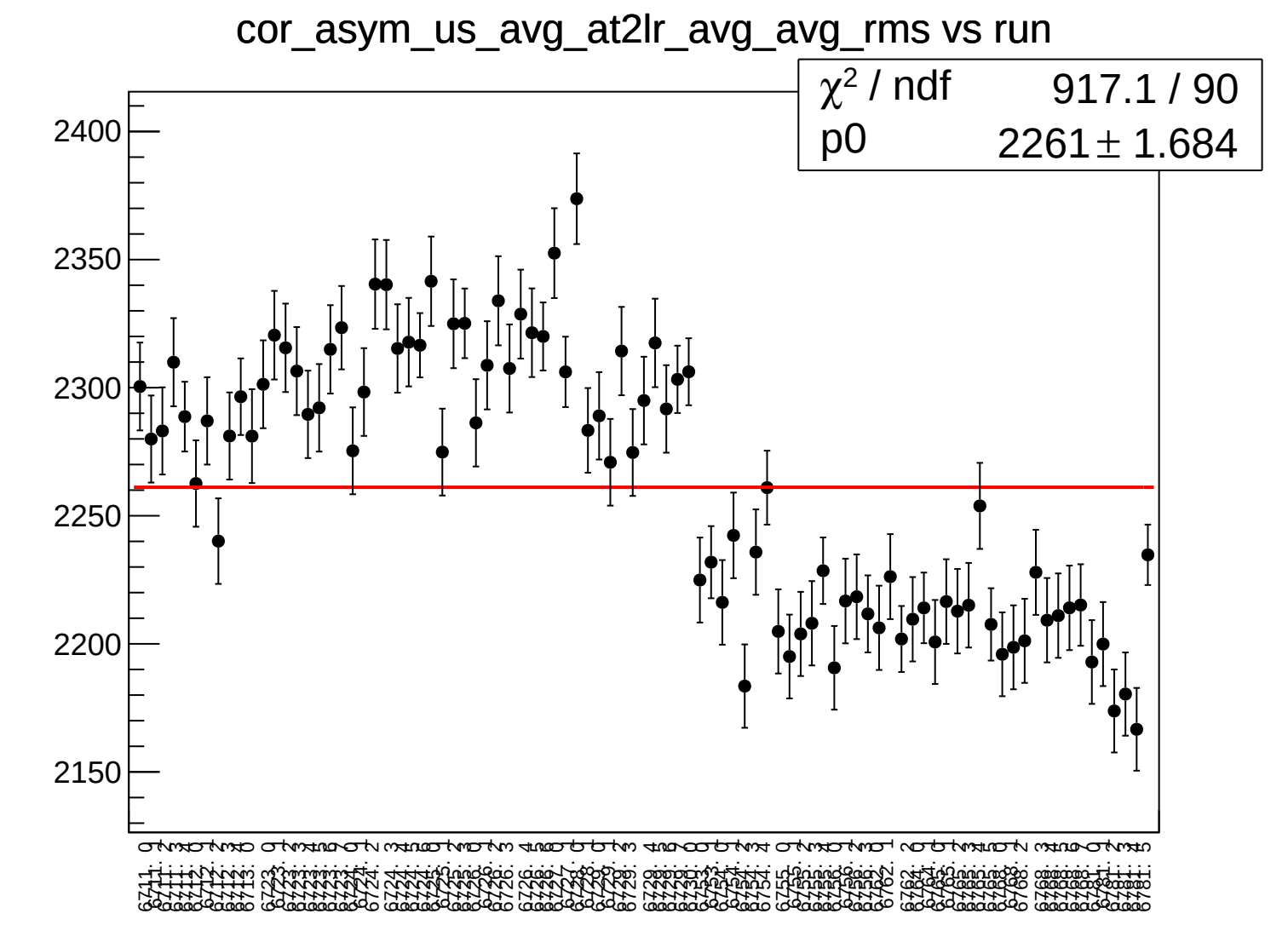

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
χ² / ndf 81.41 / 90
p0 −1564 ± 9460
×10³
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −70.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

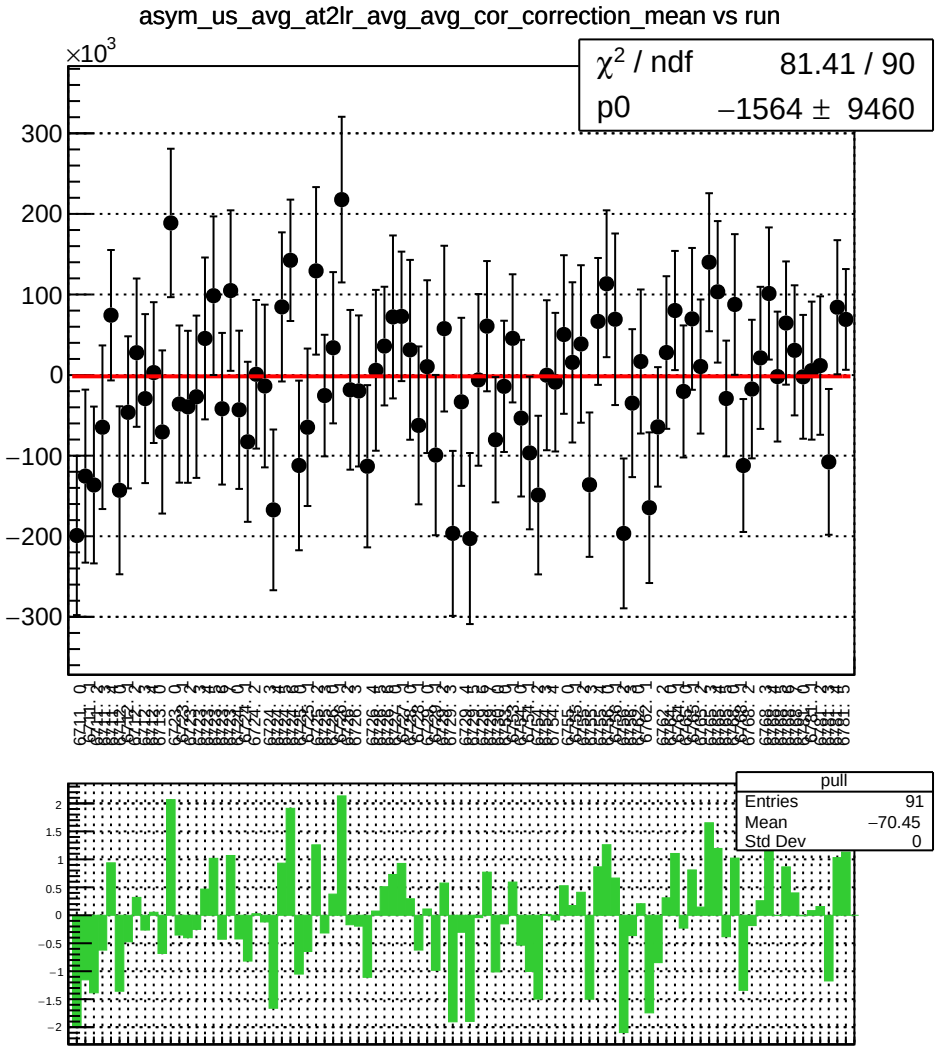

pull1D
Entries 91
Mean −0.03377
Std Dev 0.9452
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

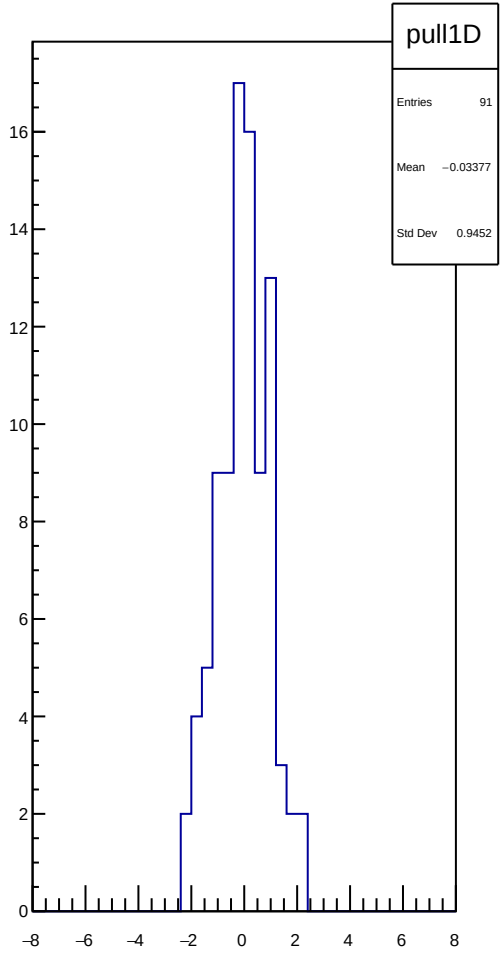

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.266e+04 / 90
p0 8953 ± 6.689
11000
10500
10000
9500
9000
8500
8000
7500
7000

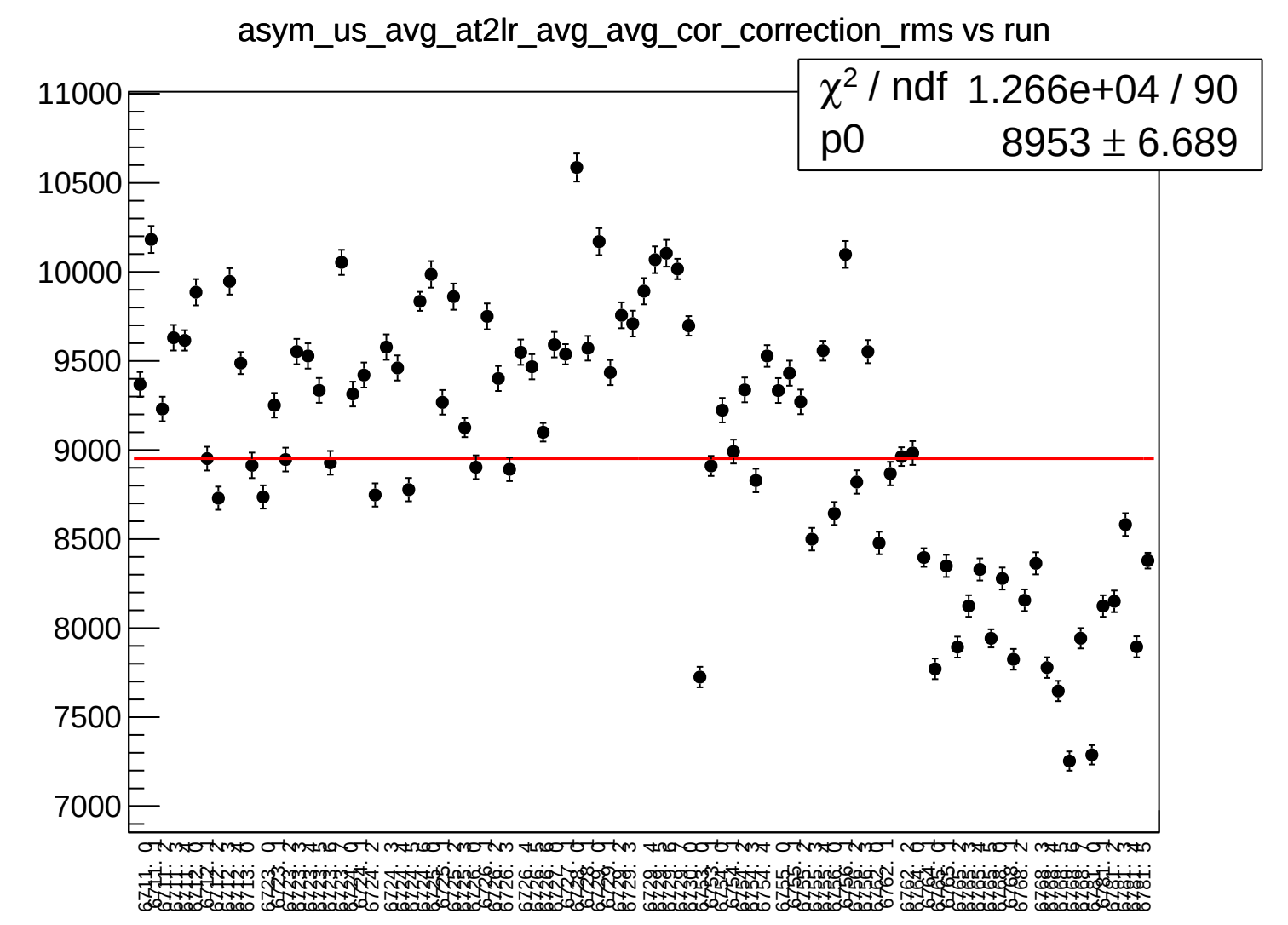

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 80.57 / 90
p0 −4525 ± 2381
×10³
pull
Entries 91
Mean −214.6
Std Dev 0

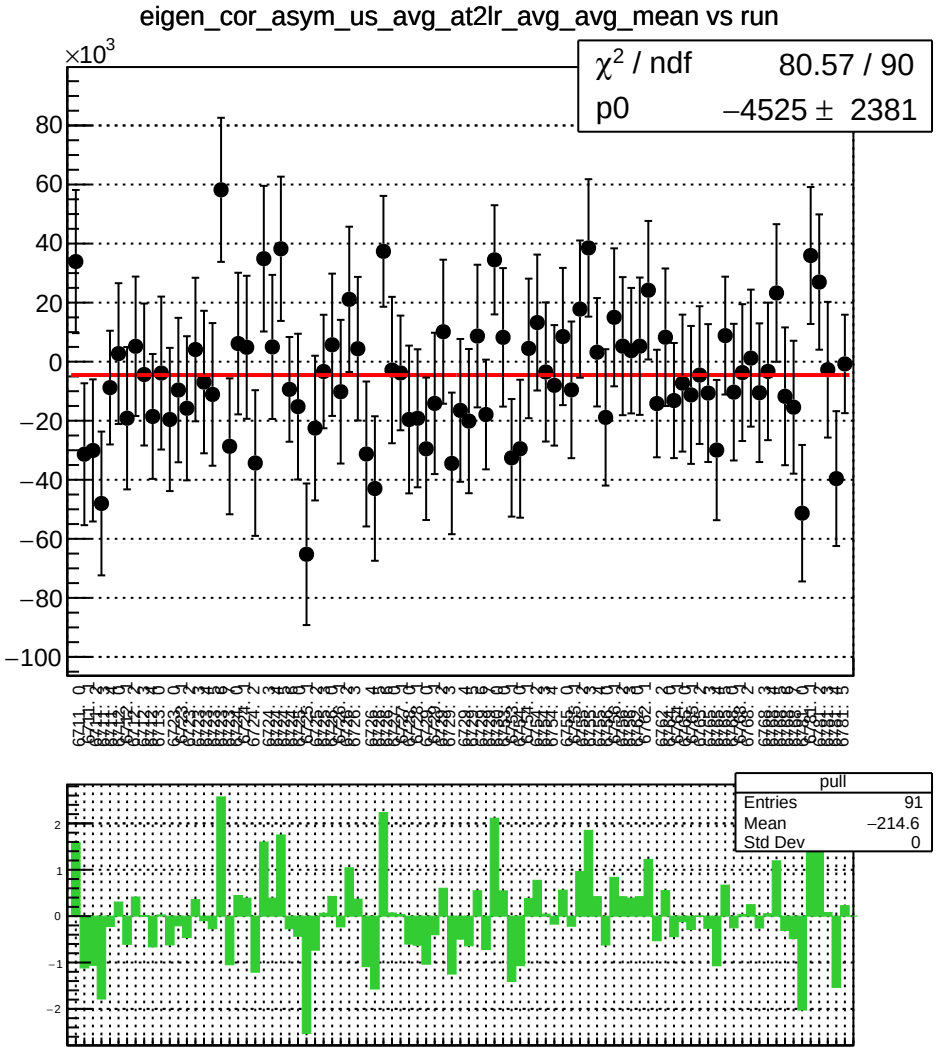

pull1D
Entries 91
Mean −0.008093
Std Dev 0.9409

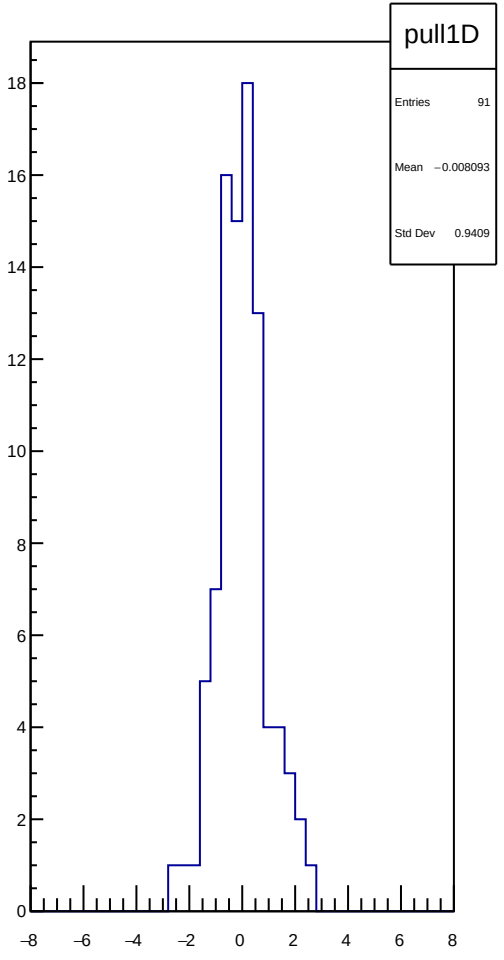

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 917.1 / 90
p0 2261 ± 1.684
2400
2350
2300
2250
2200
2150

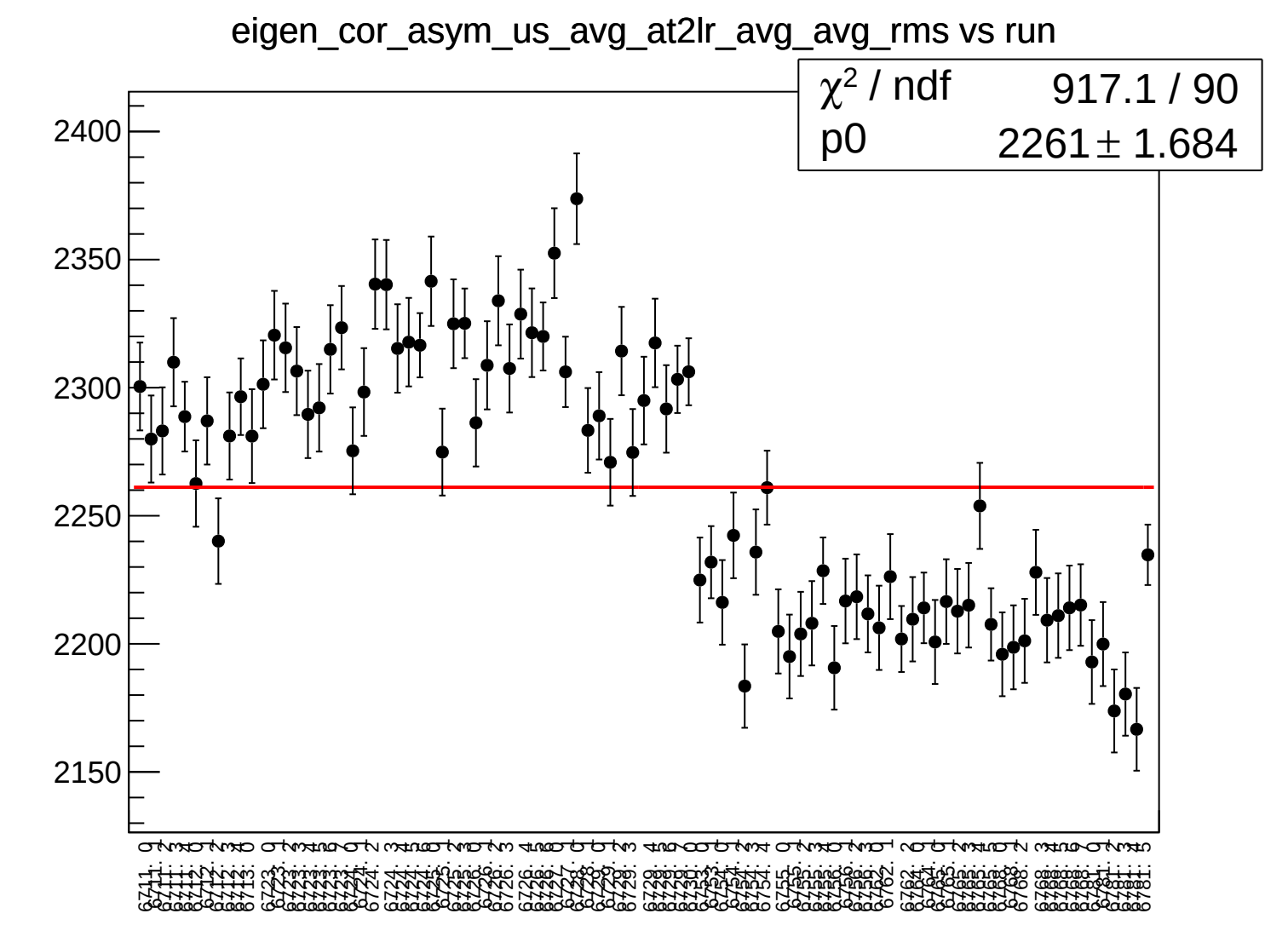

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 81.41 / 90
p0 −1564 ± 9460
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −70.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

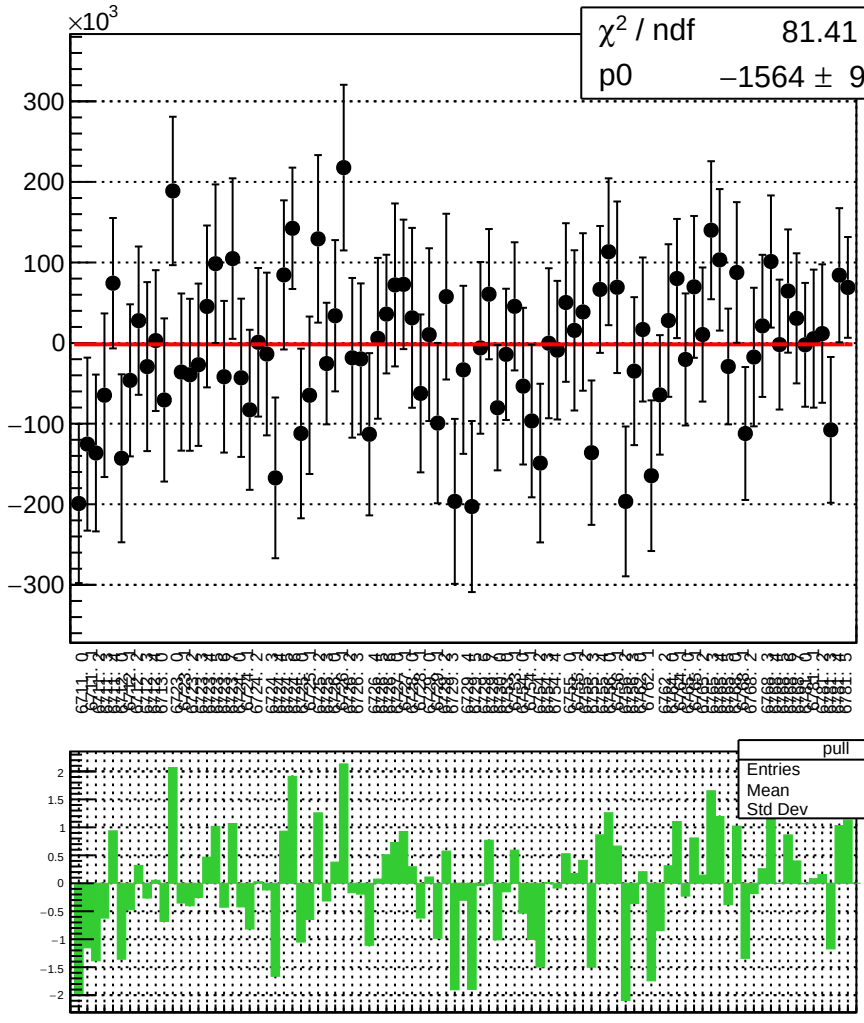

pull1D
Entries 91
Mean −0.03377
Std Dev 0.9452
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

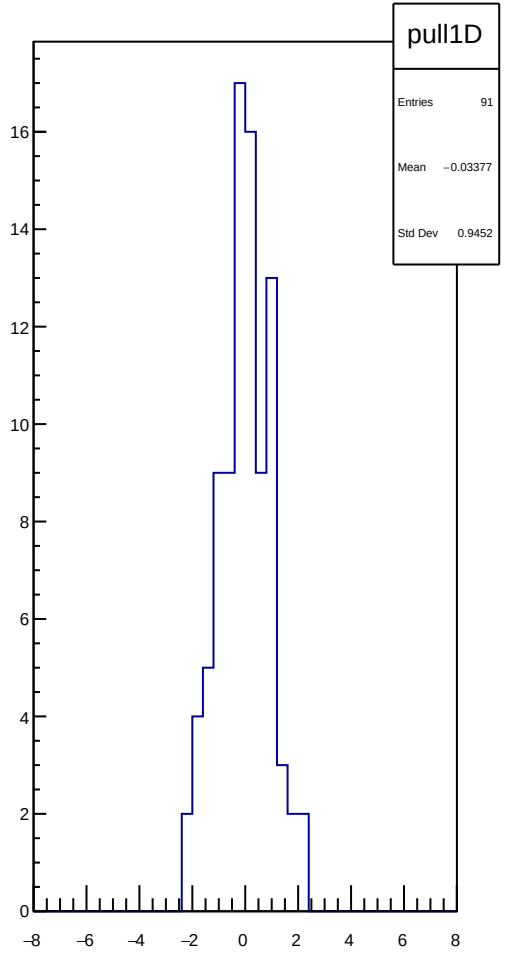

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.266e+04 / 90
p0 8953 ± 6.689
11000
10500
10000
9500
9000
8500
8000
7500
7000

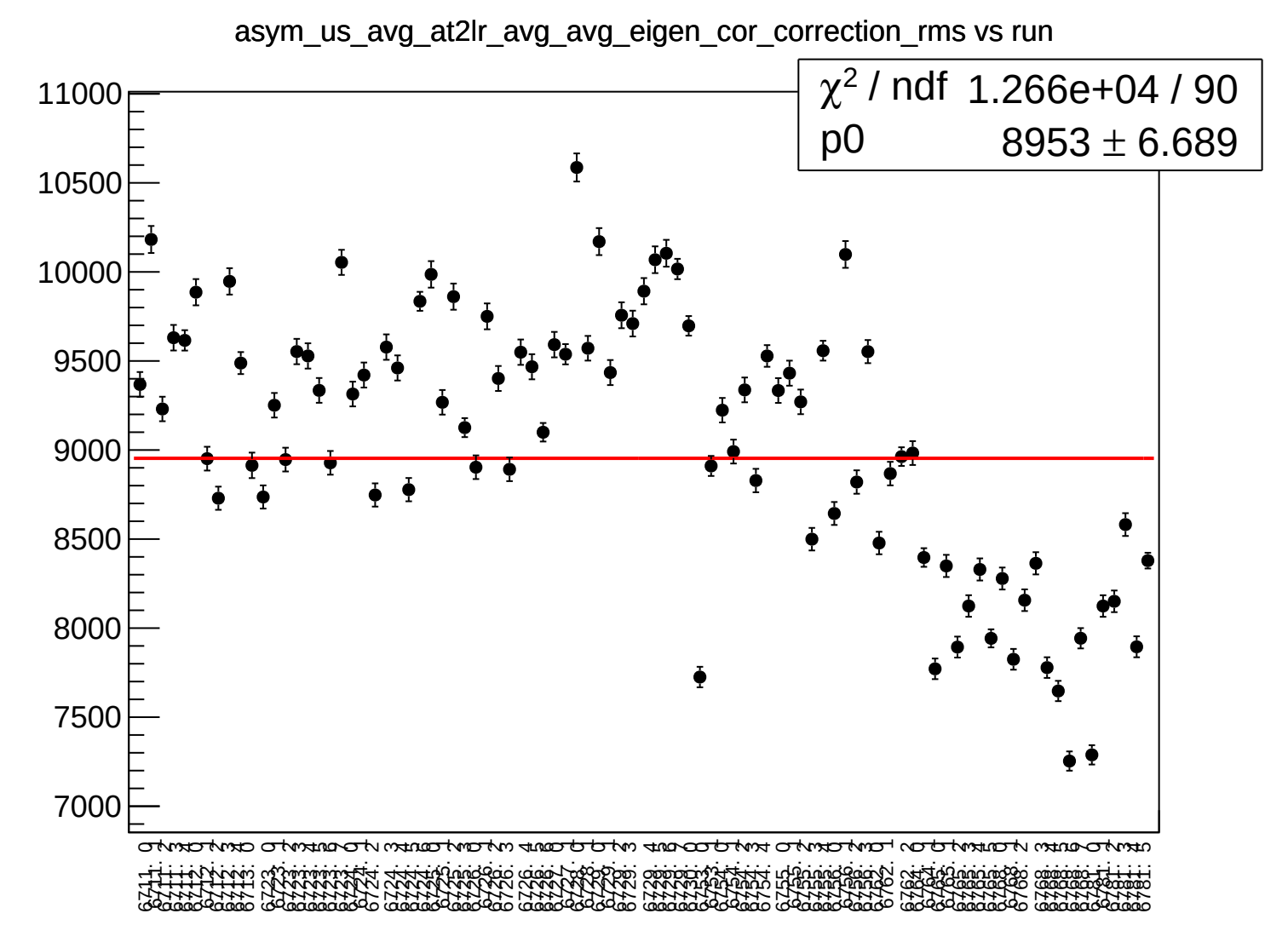

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 80.57 / 90
p0 −4525 ± 2381
pull
Entries 91
Mean −214.6
Std Dev 0

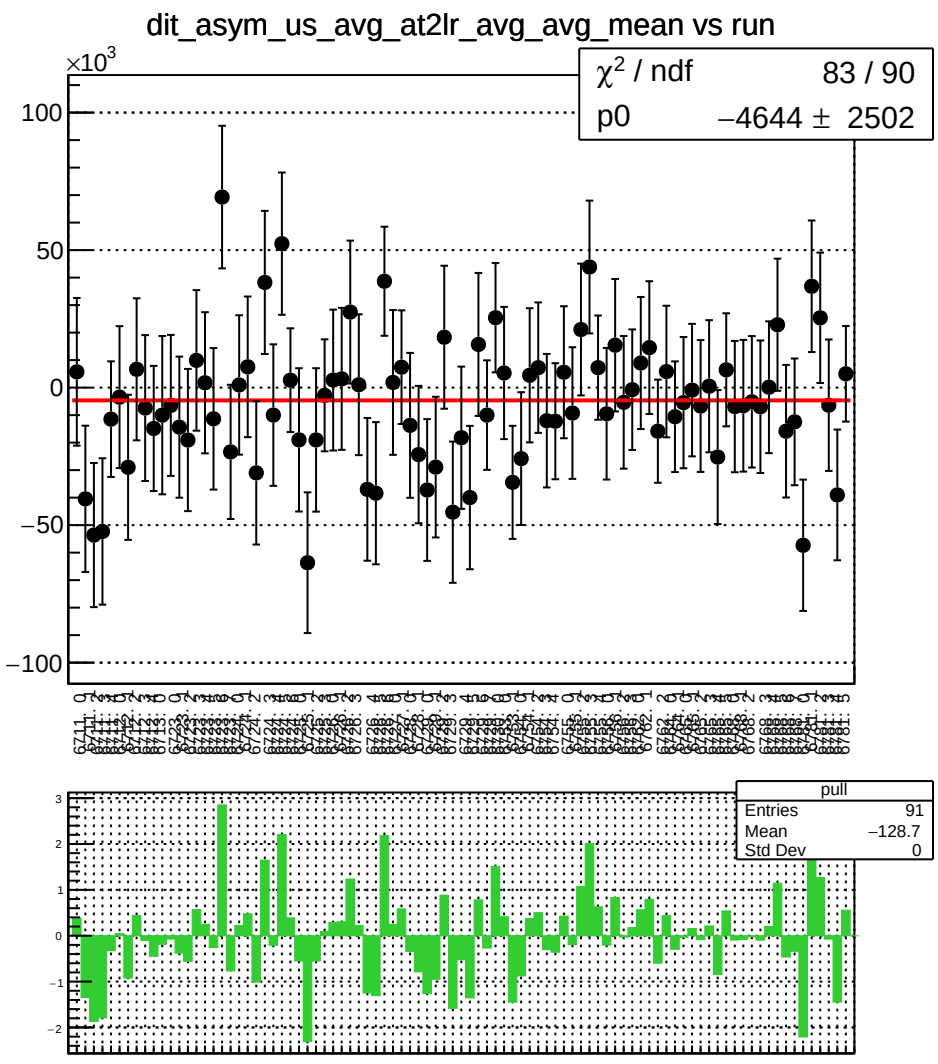

pull1D
Entries 91
Mean −0.008093
Std Dev 0.9409

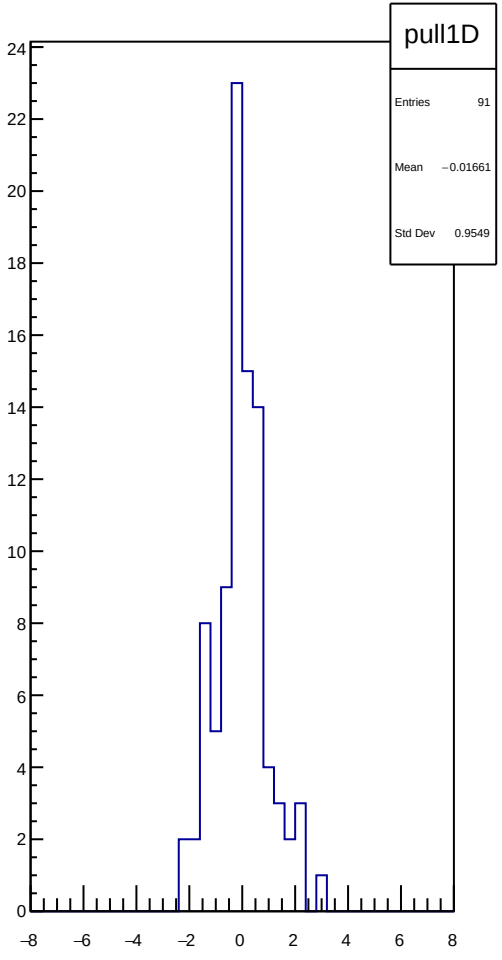

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 917.1 / 90
p0 2261 ± 1.684
2400
2350
2300
2250
2200
2150

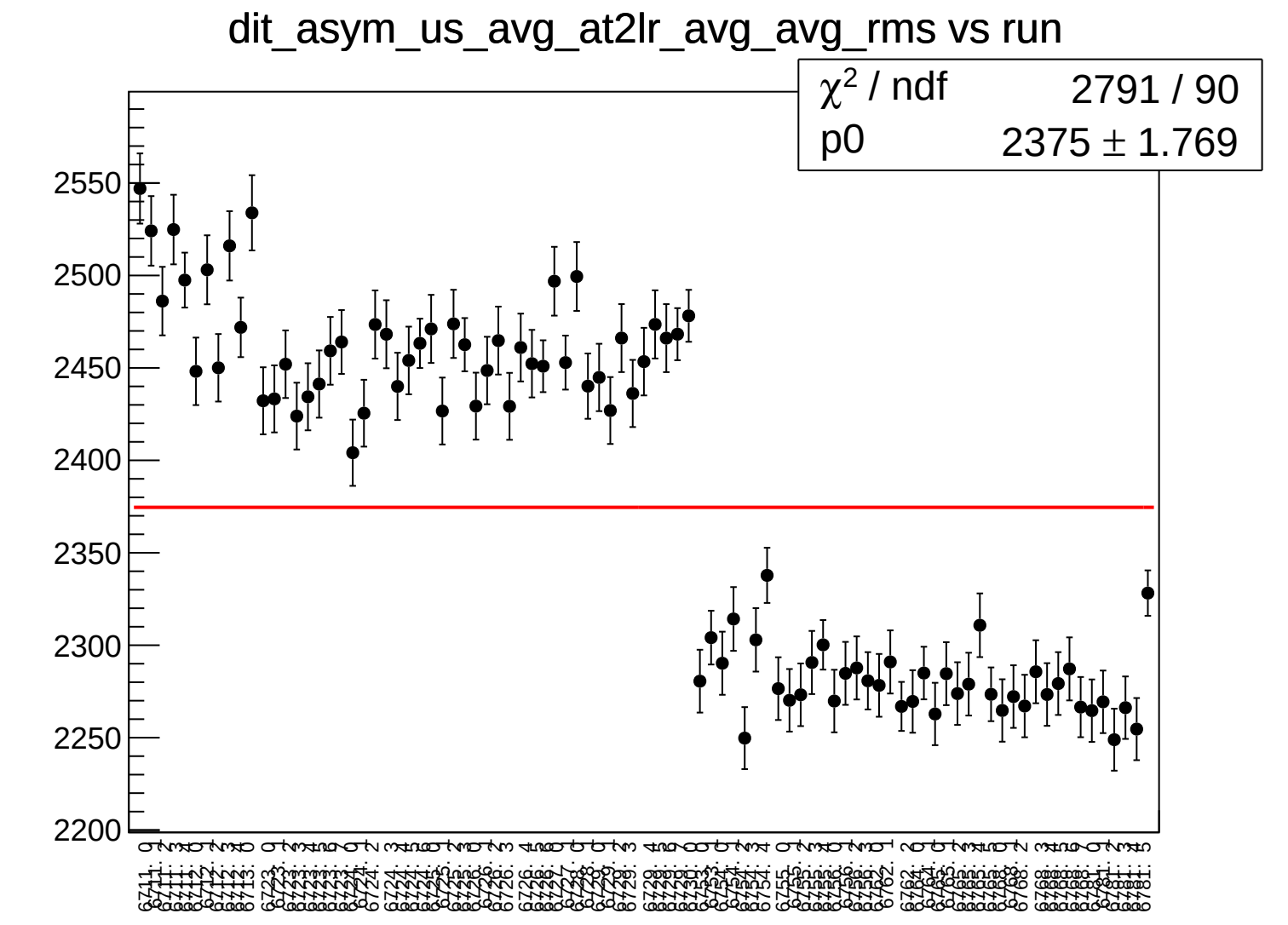

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.41 / 90
p0 −1564 ± 9460
300
200
100
0
−100
−200
−300
pull
Entries 91
Mean −70.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

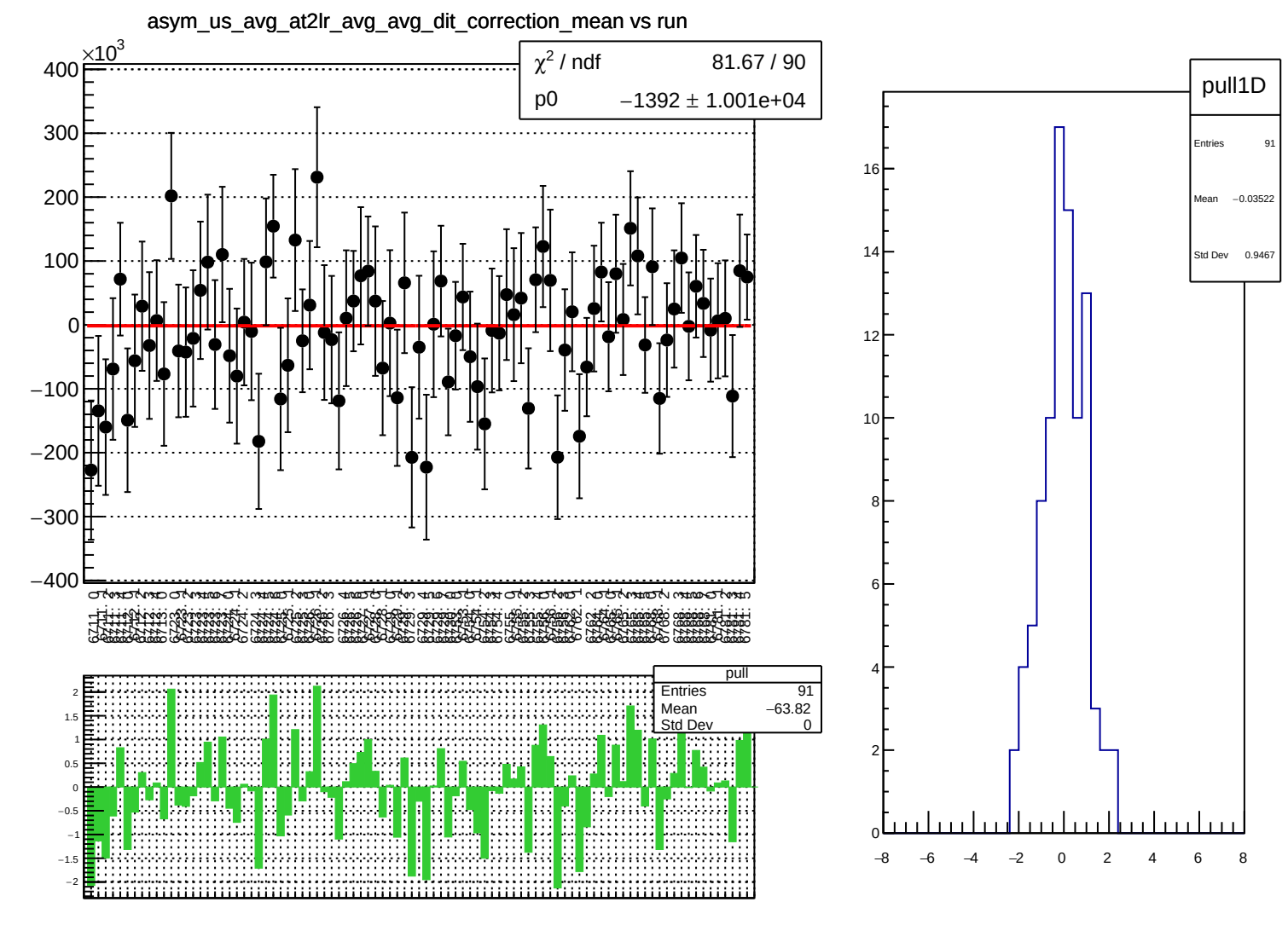

pull1D
Entries 91
Mean −0.03377
Std Dev 0.9452
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

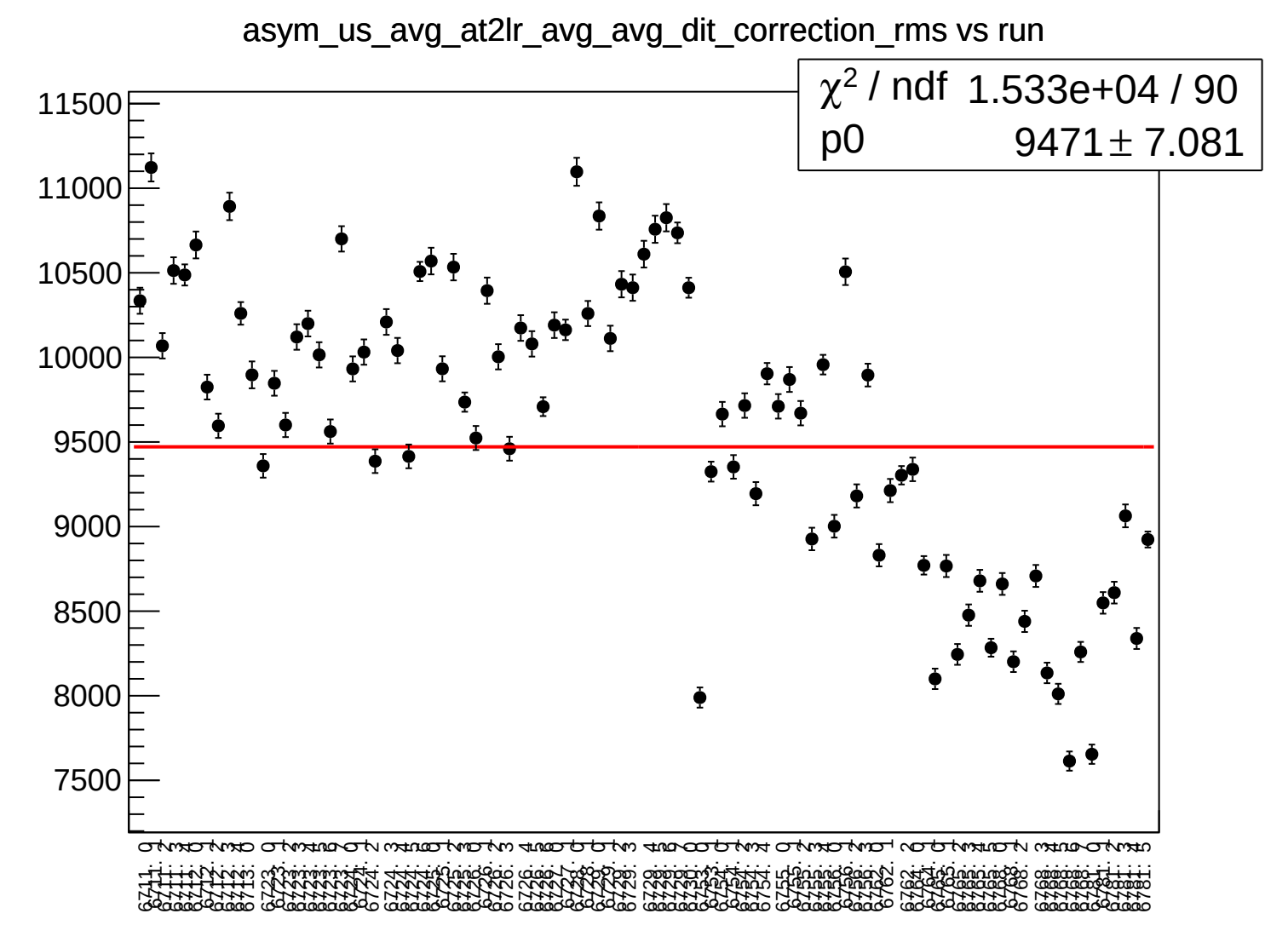

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.266e+04 / 90
p0 8953 ± 6.689
11000
10500
10000
9500
9000
8500
8000
7500
7000

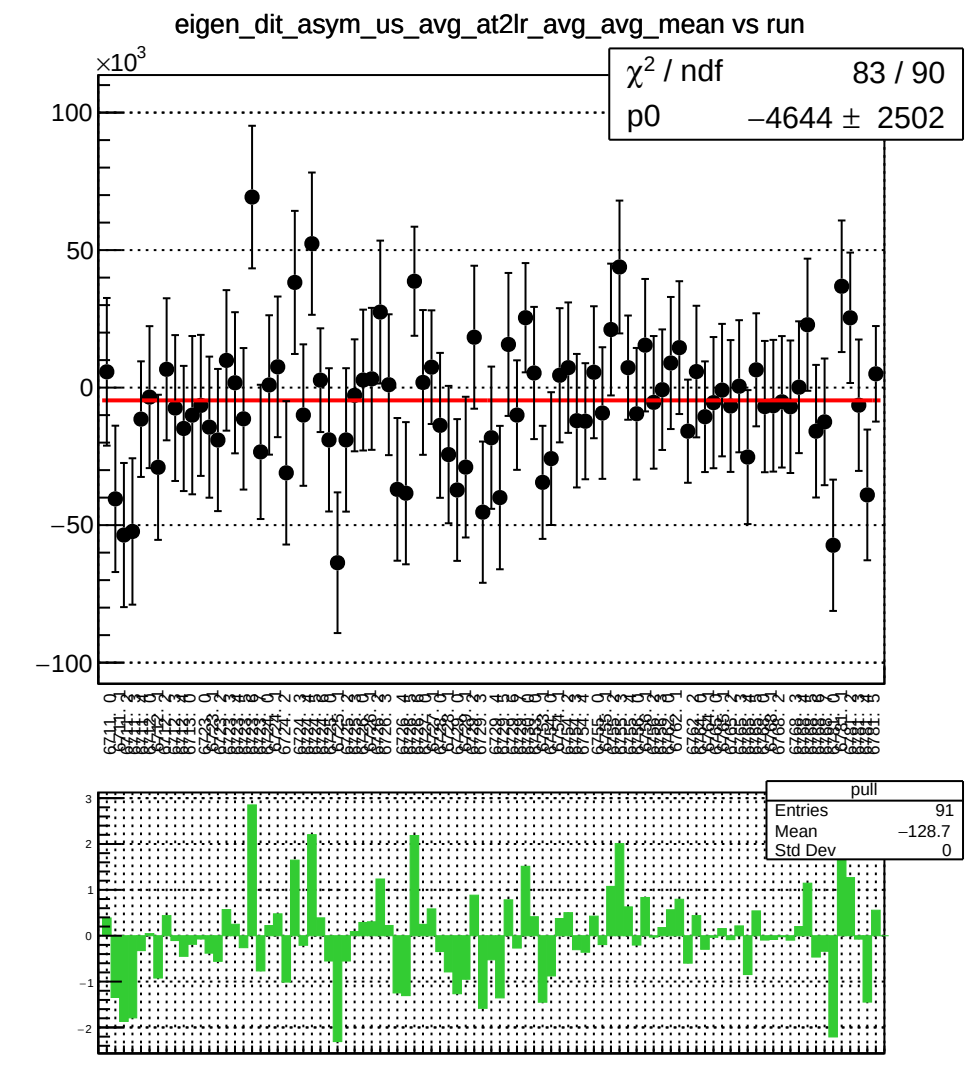

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 83 / 90
p0 −4644 ± 2502
100
50
0
−50
−100
pull
Entries 91
Mean −128.7
Std Dev 0
3
2
1
0
−1
−2

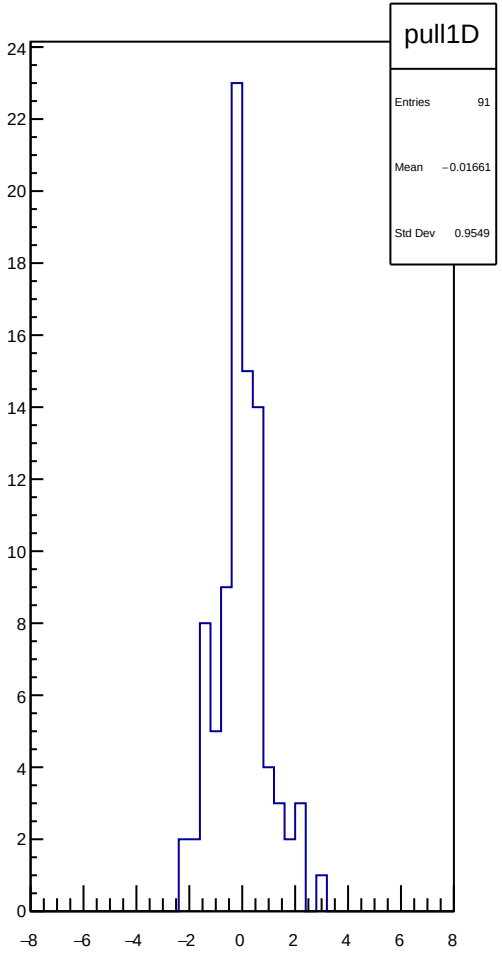

pull1D
Entries 91
Mean −0.01661
Std Dev 0.9549
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

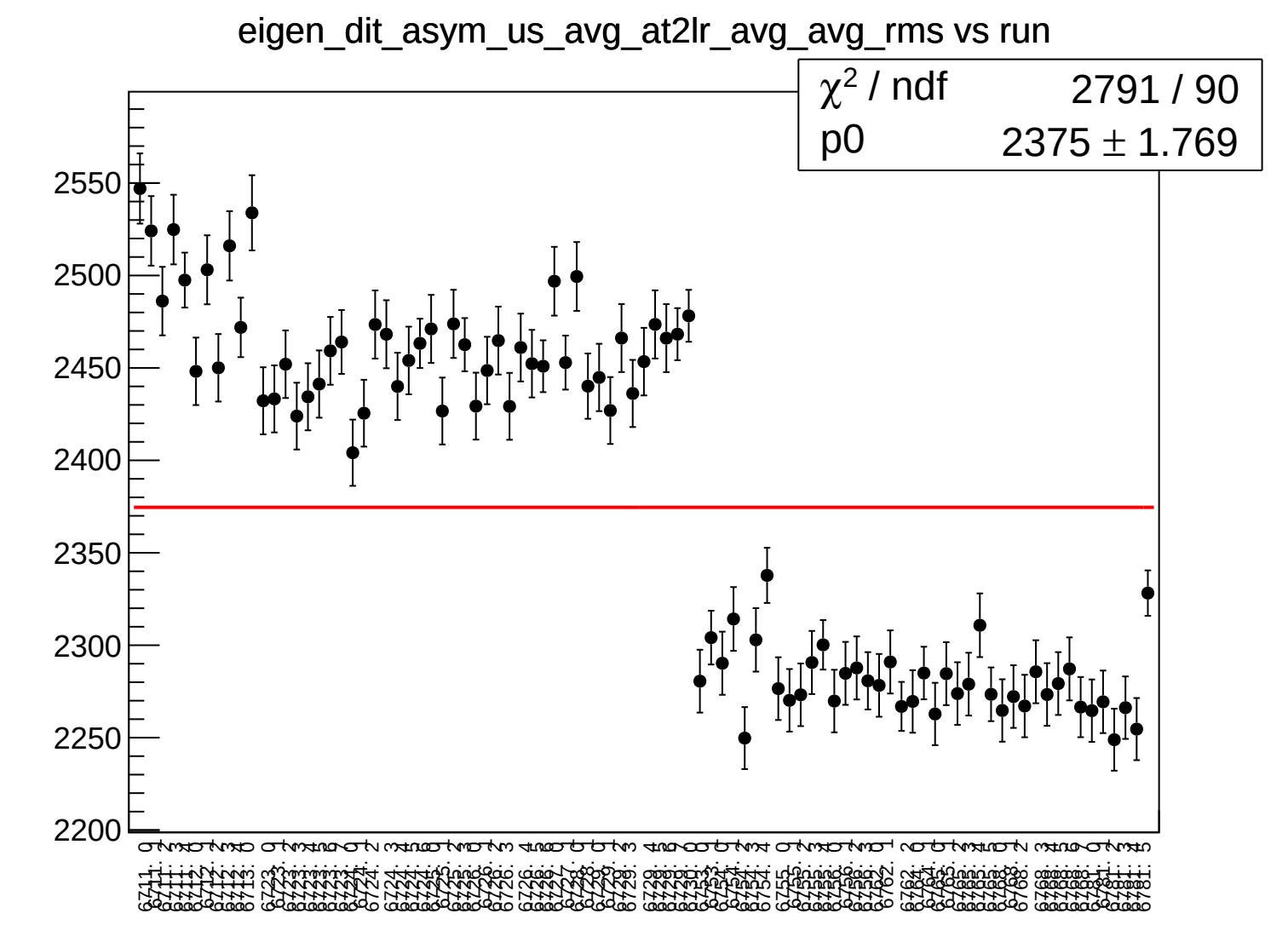

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 2791 / 90
p0 2375 ± 1.769
2550
2500
2450
2400
2350
2300
2250
2200

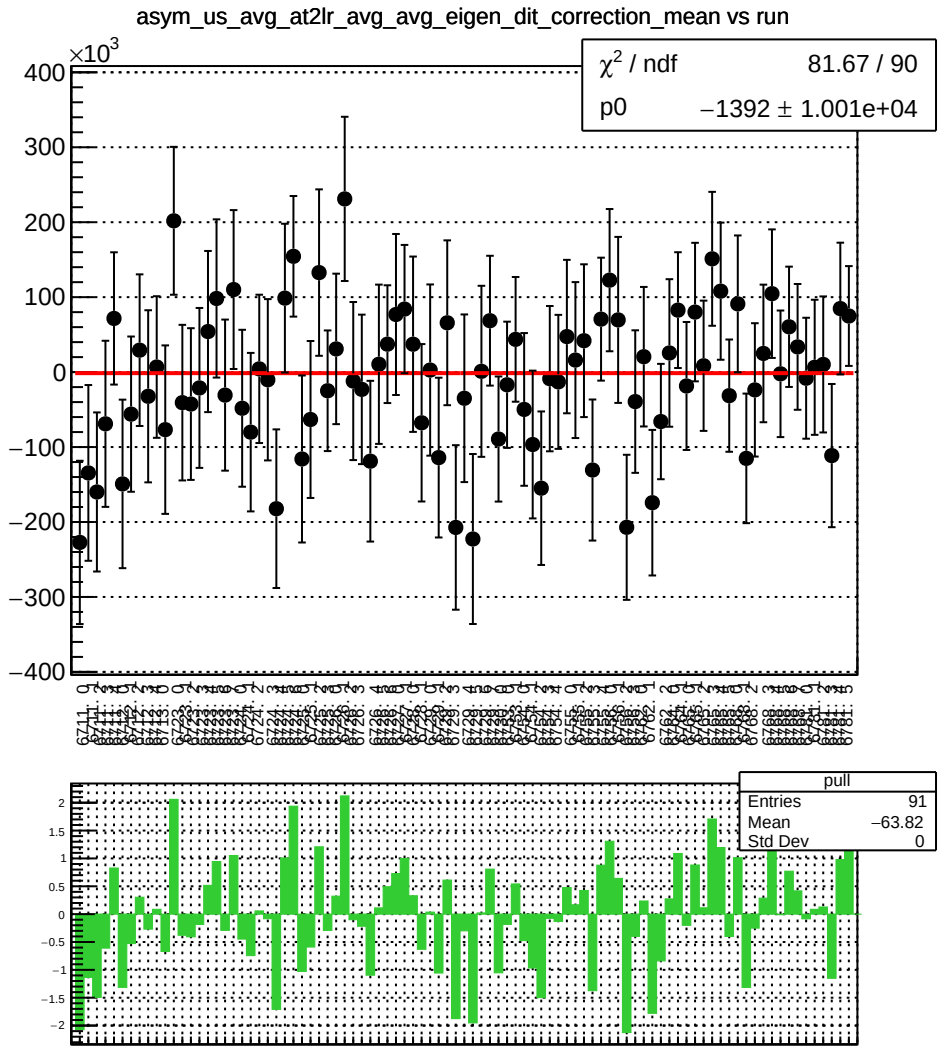

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 81.67 / 90
p0 −1392 ± 1.001e+04
pull
Entries 91
Mean −63.82
Std Dev 0
pull1D
Entries 91
Mean −0.03522
Std Dev 0.9467

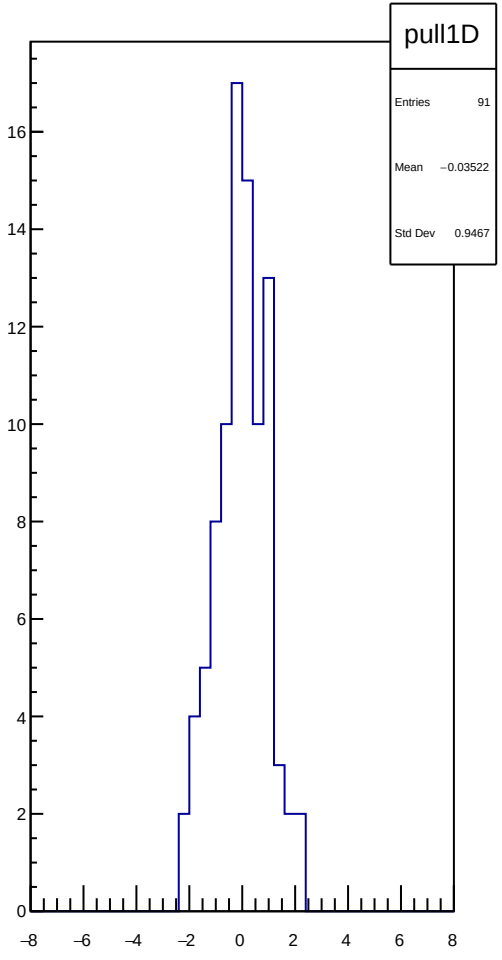

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.533e+04 / 90
p0 9471 ± 7.081
11500
11000
10500
10000
9500
9000
8500
8000
7500

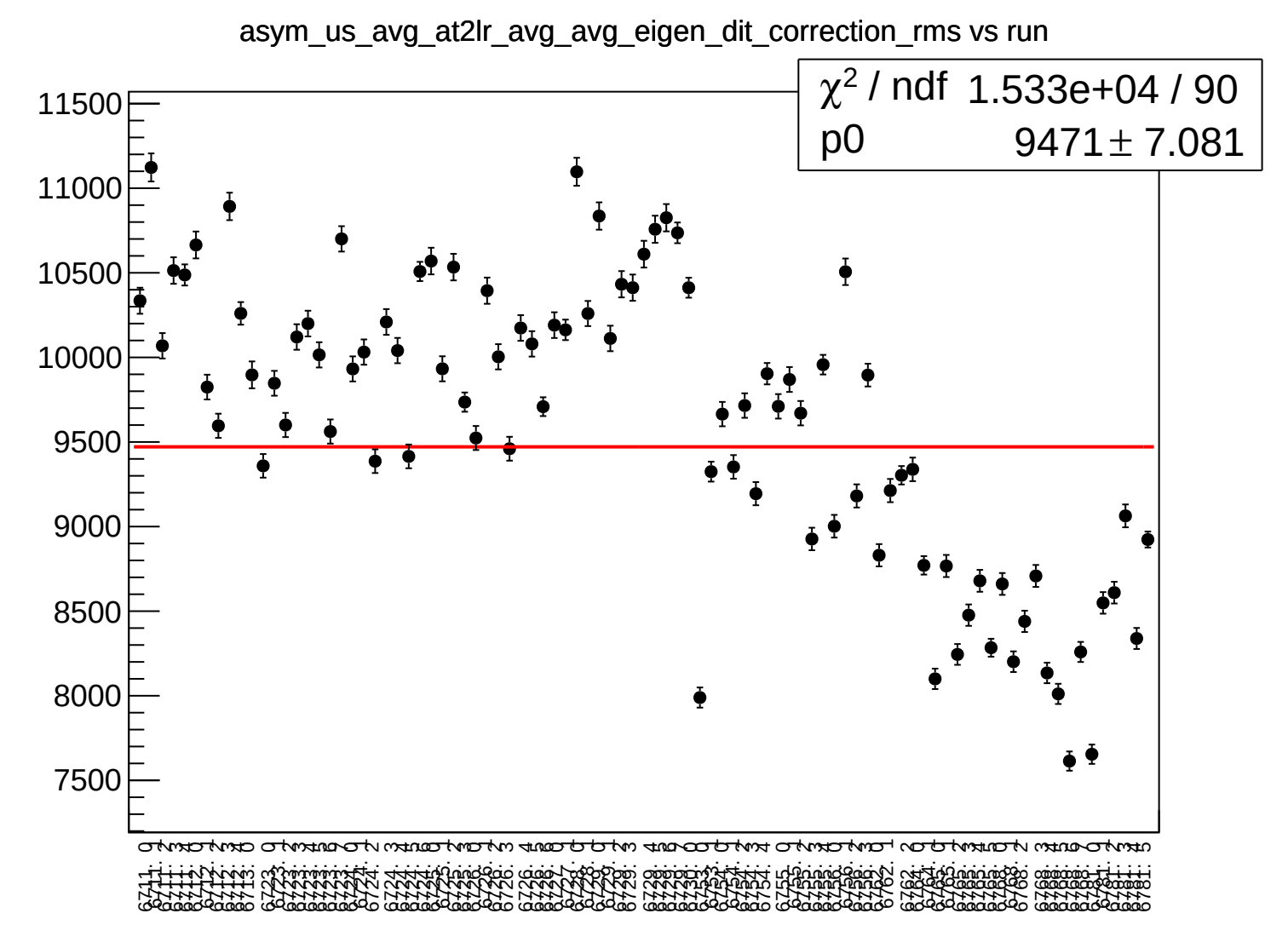

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 83 / 90
p0 −4644 ± 2502
100
50
0
−50
−100
pull
Entries 91
Mean −128.7
Std Dev 0
3
2
1
0
−1
−2

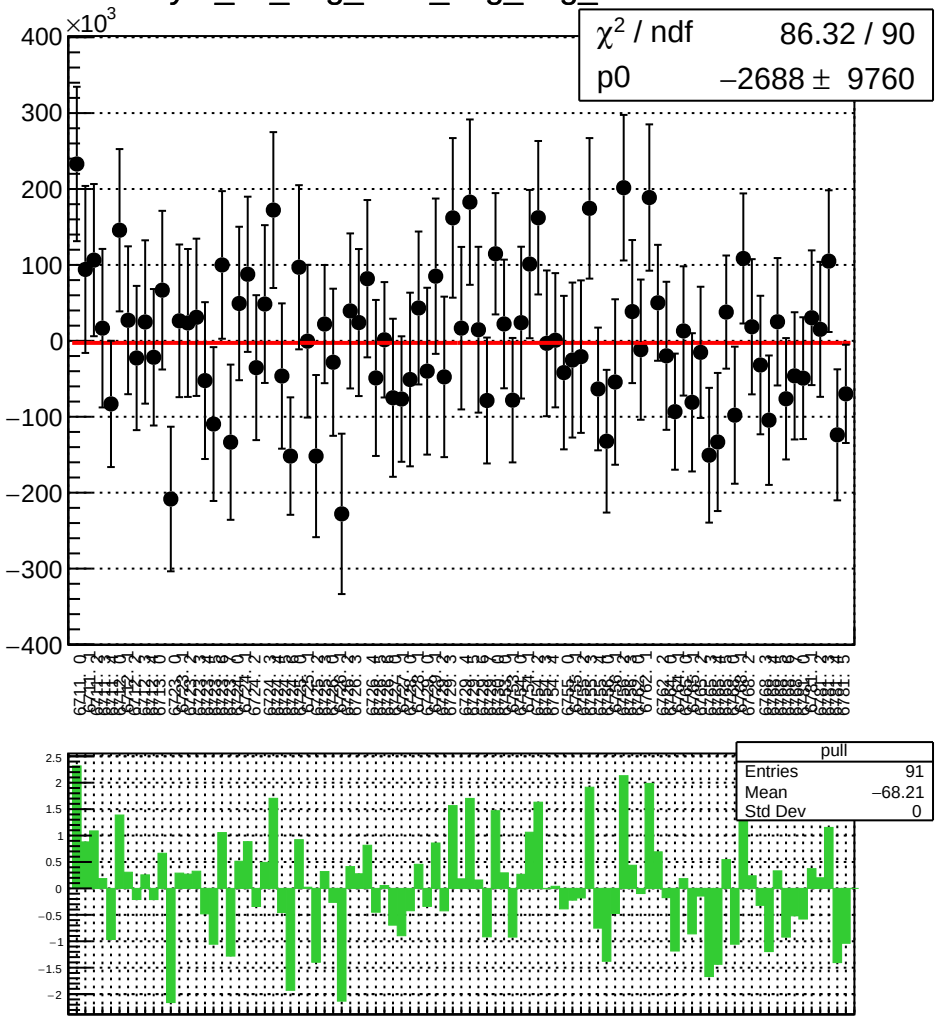

pull1D
Entries 91
Mean −0.01661
Std Dev 0.9549
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

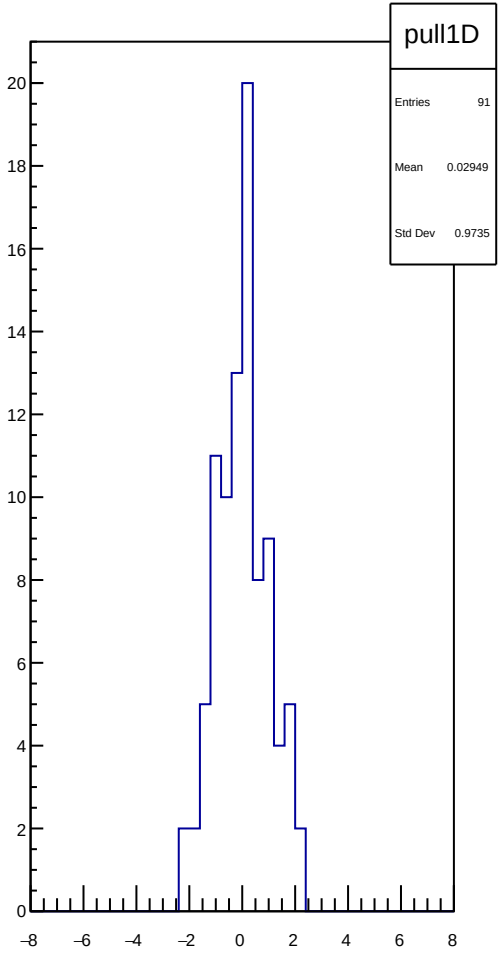

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 2791 / 90
p0 2375 ± 1.769
2550
2500
2450
2400
2350
2300
2250
2200

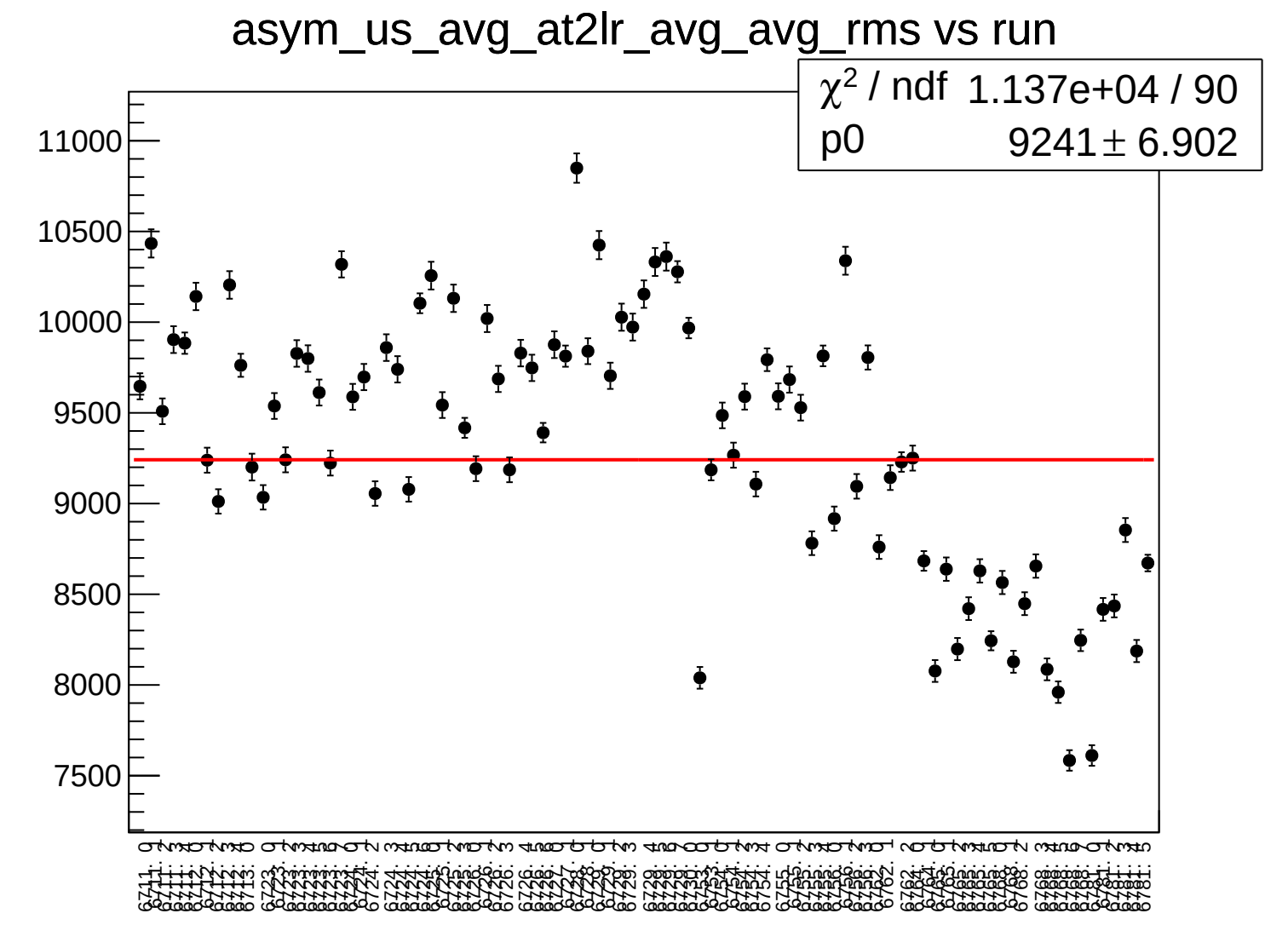

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.67 / 90
p0 −1392 ± 1.001e+04
pull
Entries 91
Mean −63.82
Std Dev 0

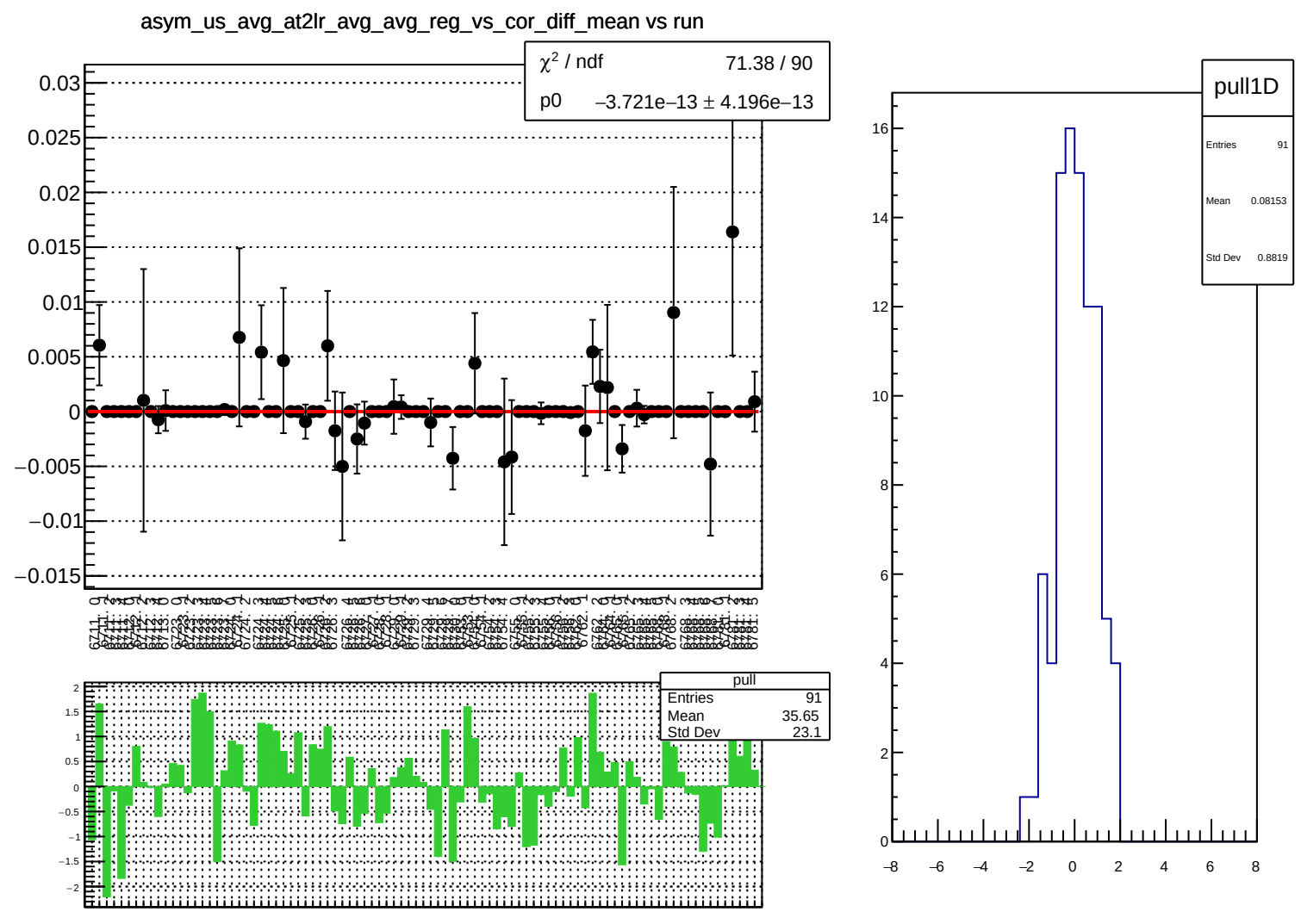

pull1D
Entries 91
Mean −0.03522
Std Dev 0.9467

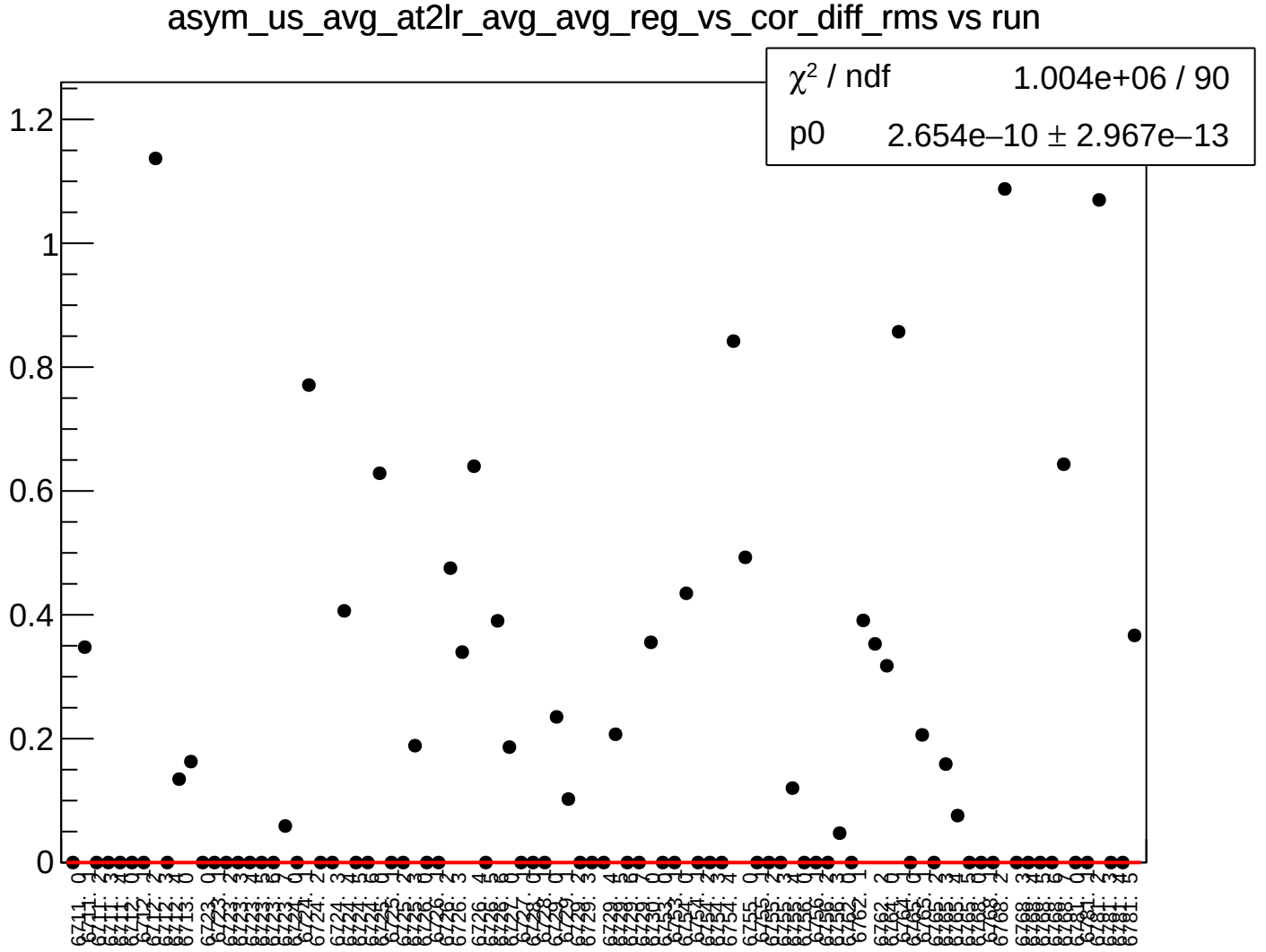

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.533e+04 / 90
p0 9471 ± 7.081
11500
11000
10500
10000
9500
9000
8500
8000
7500

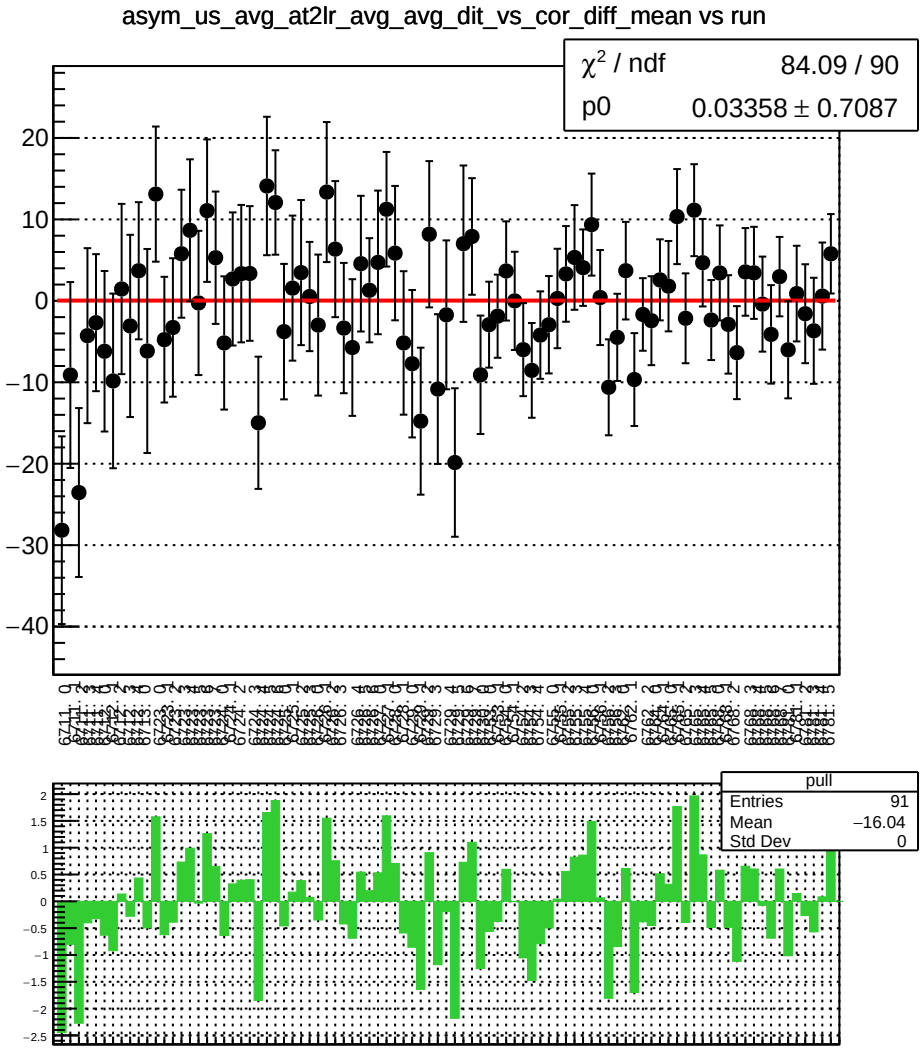

asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 86.32 / 90
p0 −2688 ± 9760
×10³
pull
Entries 91
Mean −68.21
Std Dev 0

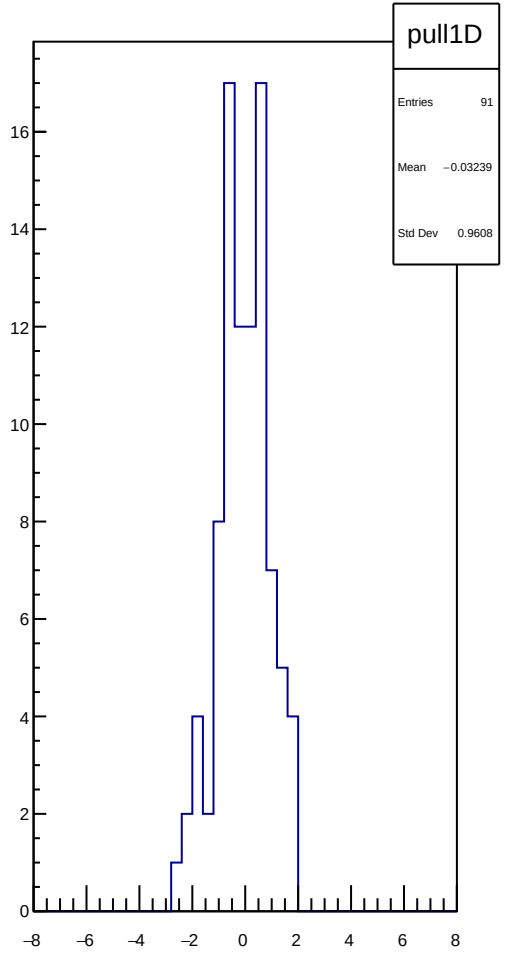

pull1D
Entries 91
Mean 0.02949
Std Dev 0.9735

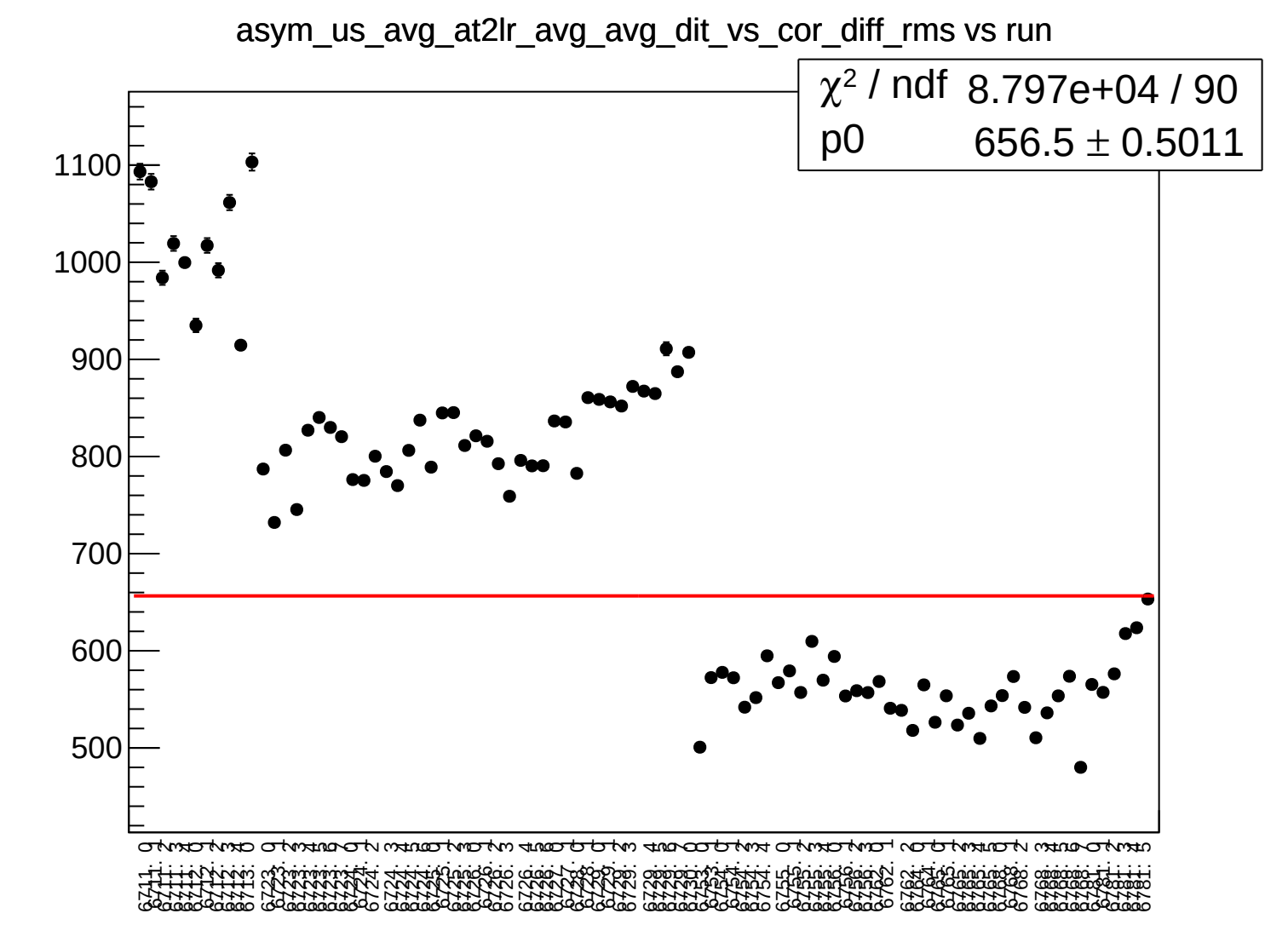

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.137e+04 / 90
p0 9241 ± 6.902
11000
10500
10000
9500
9000
8500
8000
7500

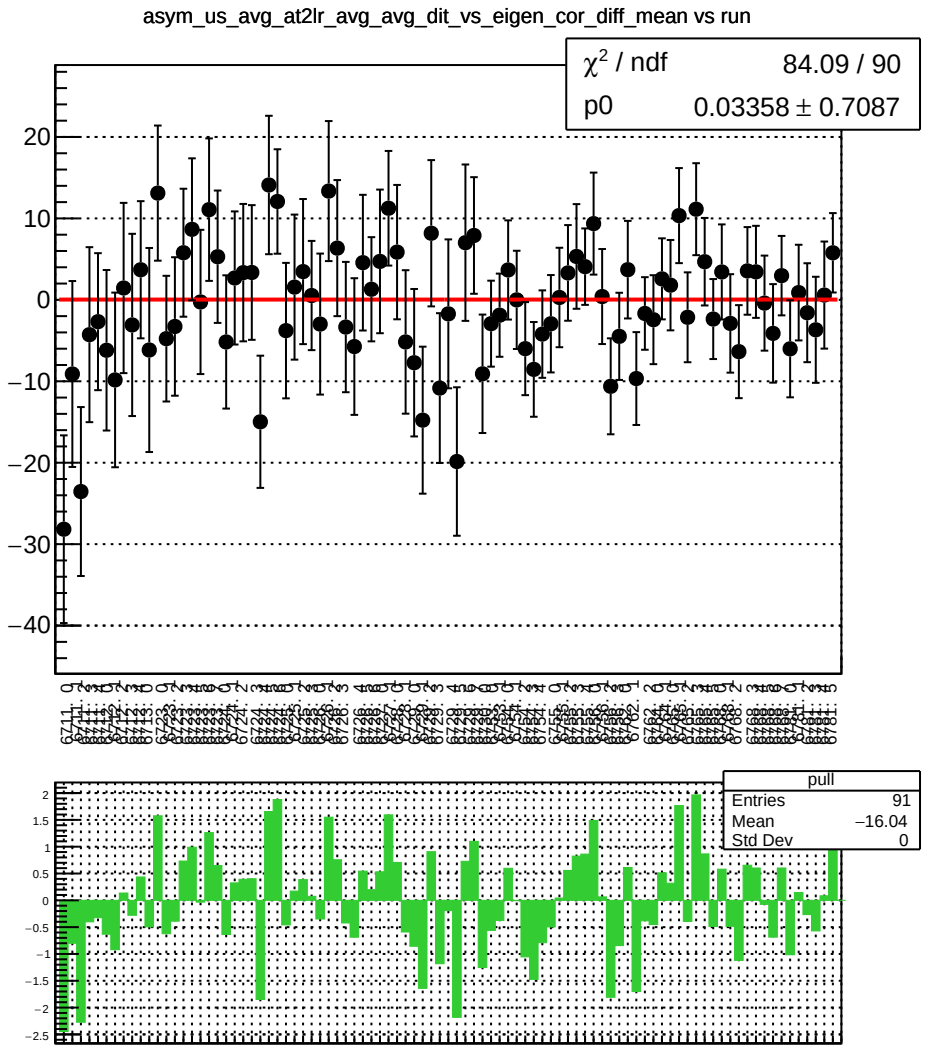

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 71.38 / 90
p0 −3.721e−13 ± 4.196e−13
pull
Entries 91
Mean 35.65
Std Dev 23.1
pull1D
Entries 91
Mean 0.08153
Std Dev 0.8819

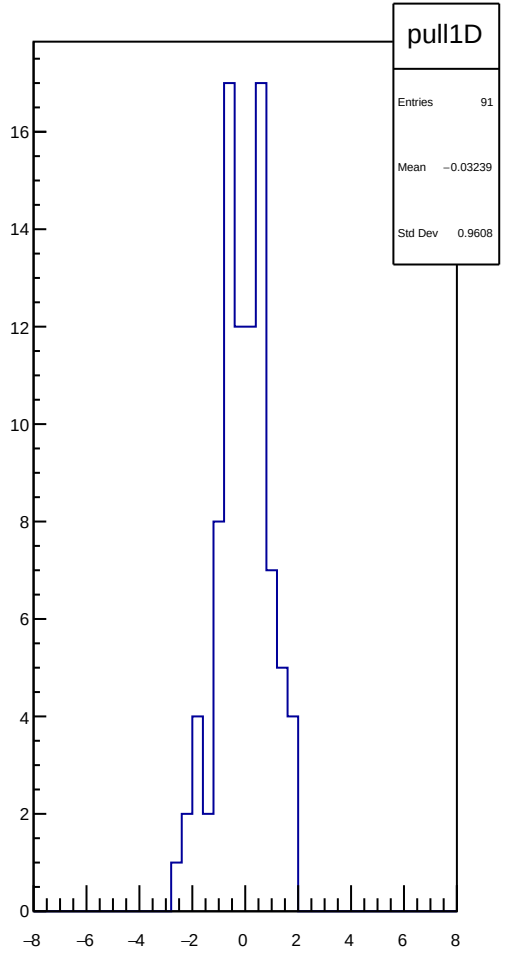

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.004e+06 / 90
p0 2.654e−10 ± 2.967e−13
1.2
1
0.8
0.6
0.4
0.2
0

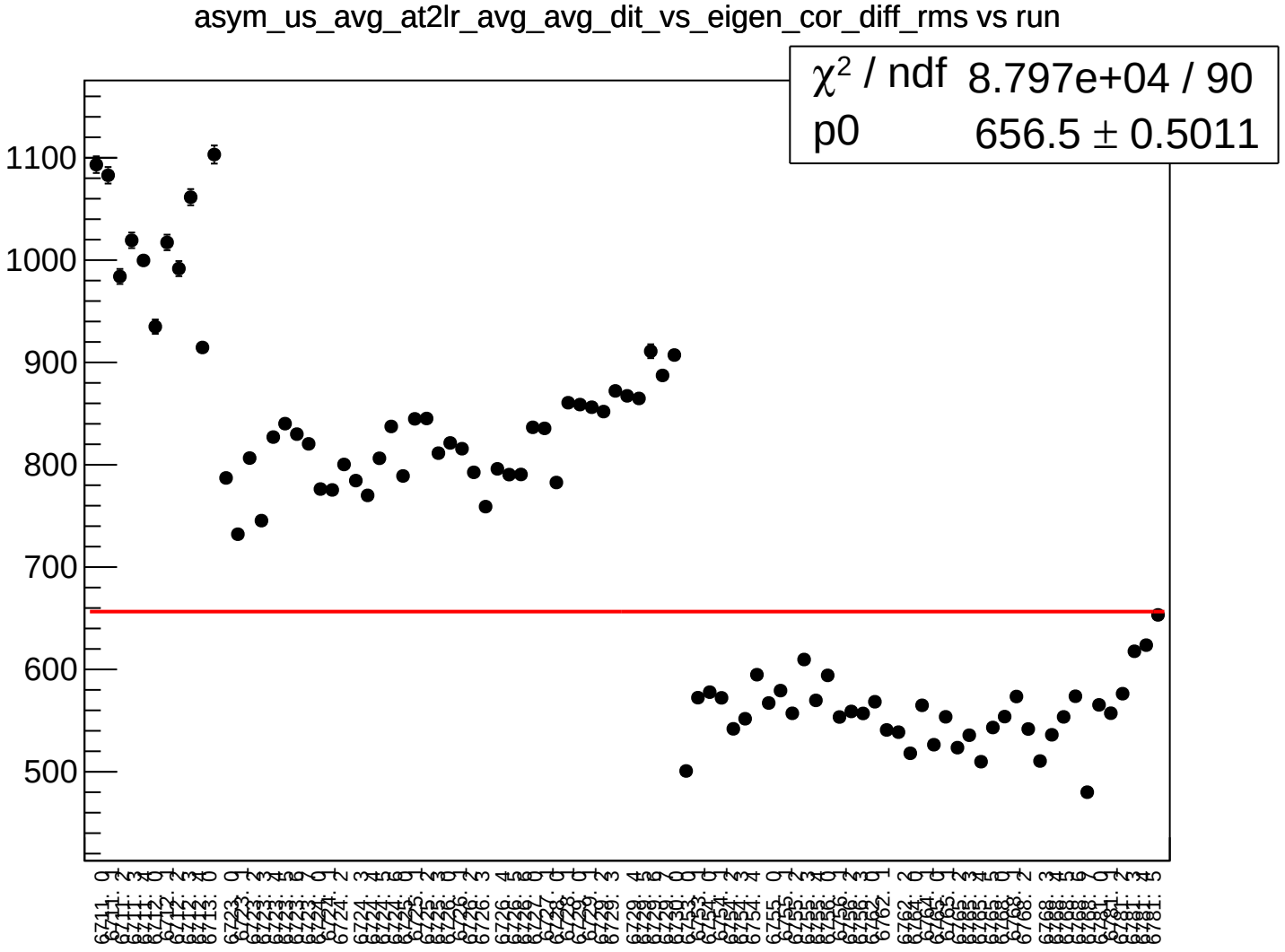

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.09 / 90
p0 0.03358 ± 0.7087
pull
Entries 91
Mean −16.04
Std Dev 0

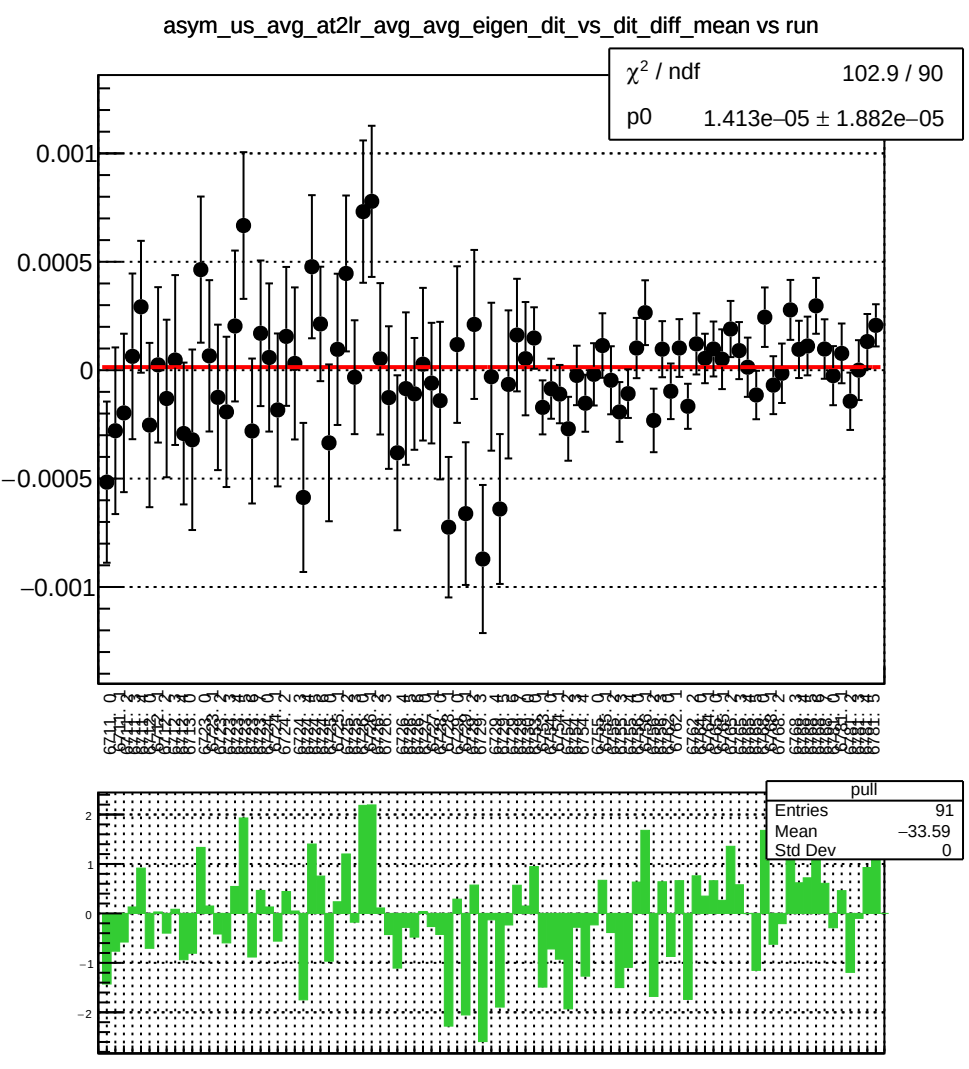

pull1D
Entries 91
Mean −0.03239
Std Dev 0.9608

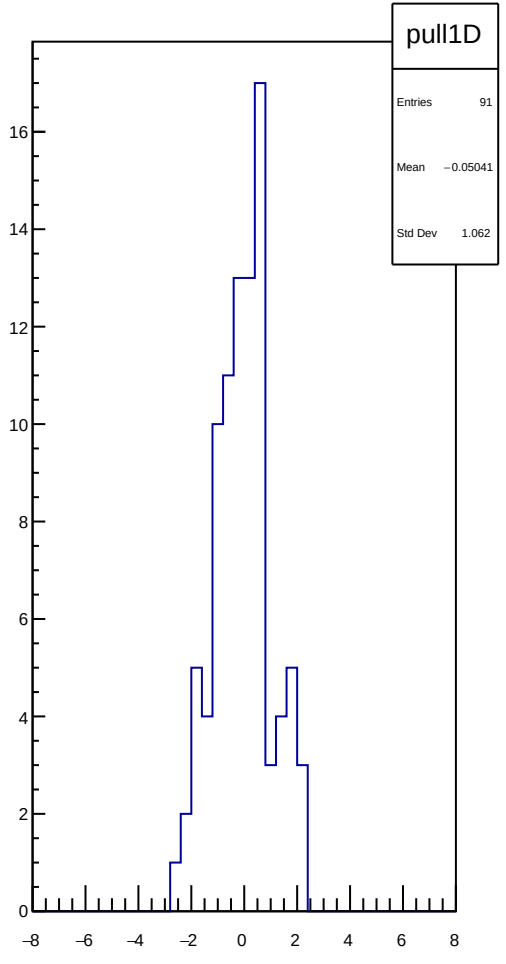

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.797e+04 / 90
p0 656.5 ± 0.5011
1100
1000
900
800
700
600
500

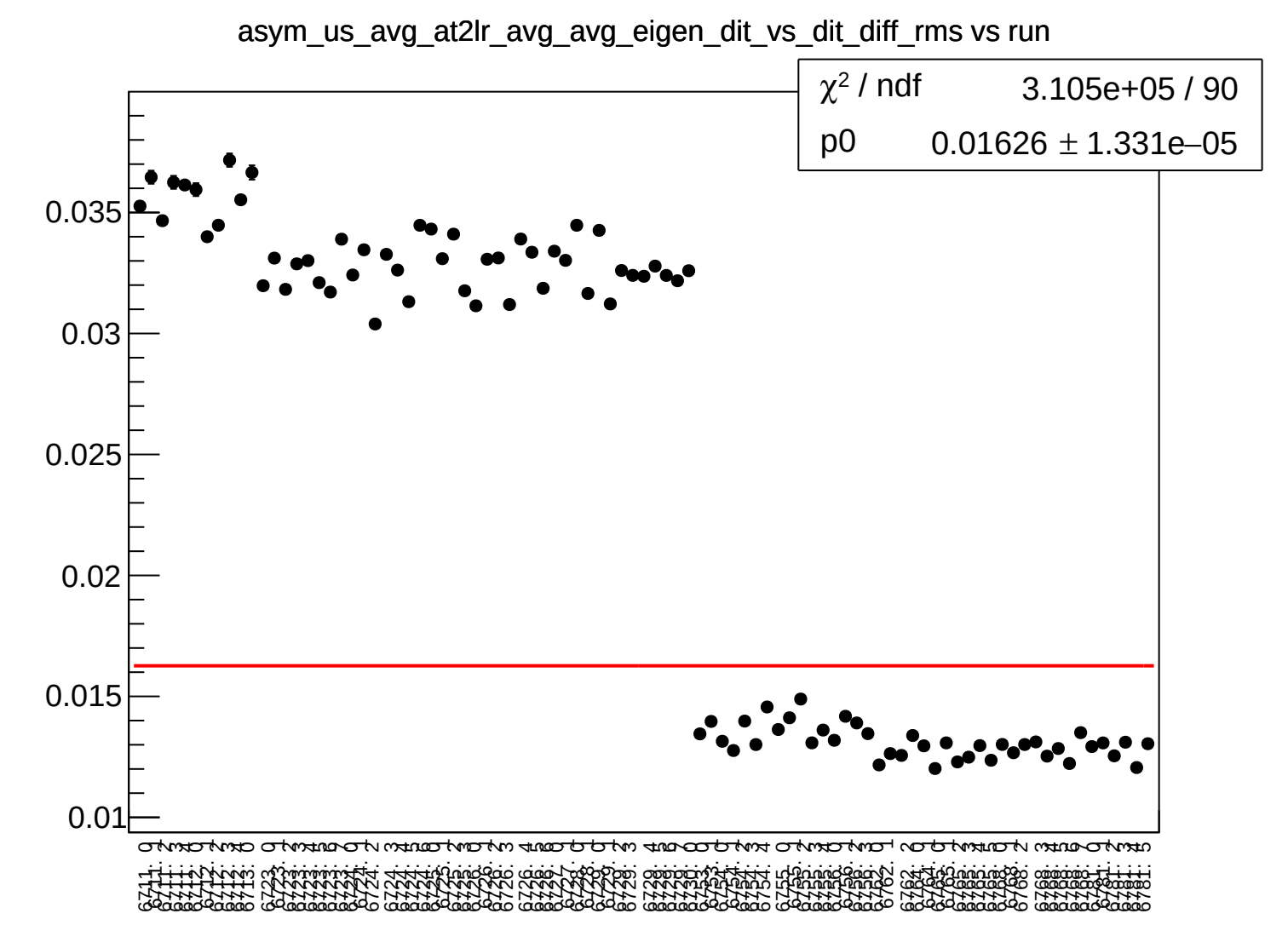

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.09 / 90
p0 0.03358 ± 0.7087
pull
Entries 91
Mean −16.04
Std Dev 0

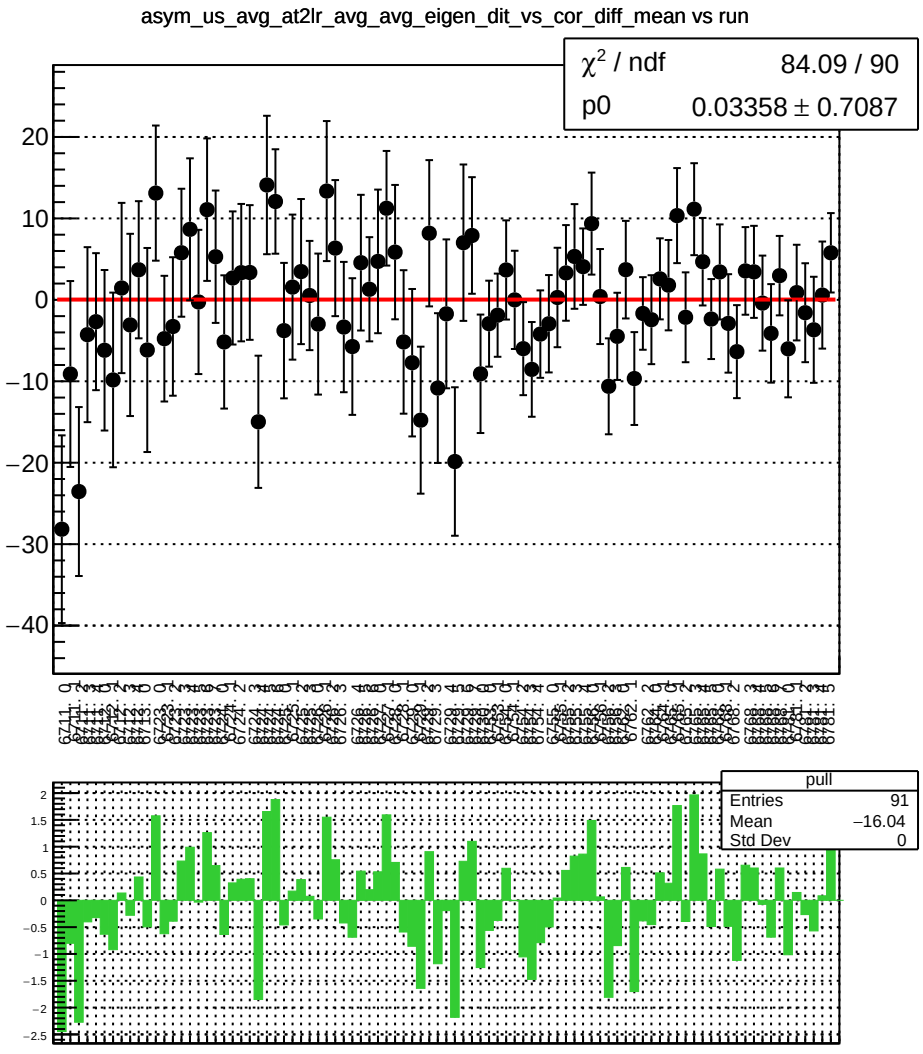

pull1D
Entries 91
Mean −0.03239
Std Dev 0.9608

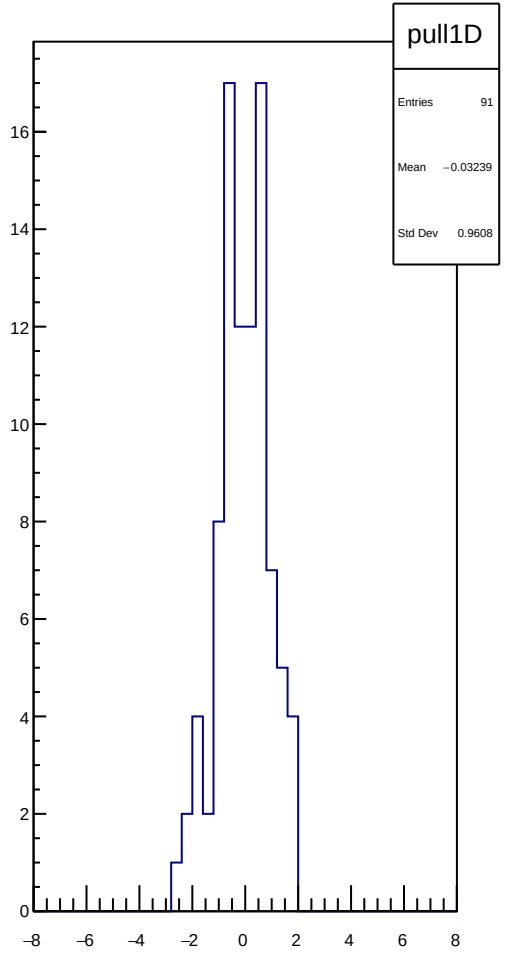

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.797e+04 / 90
p0 656.5 ± 0.5011
1100
1000
900
800
700
600
500

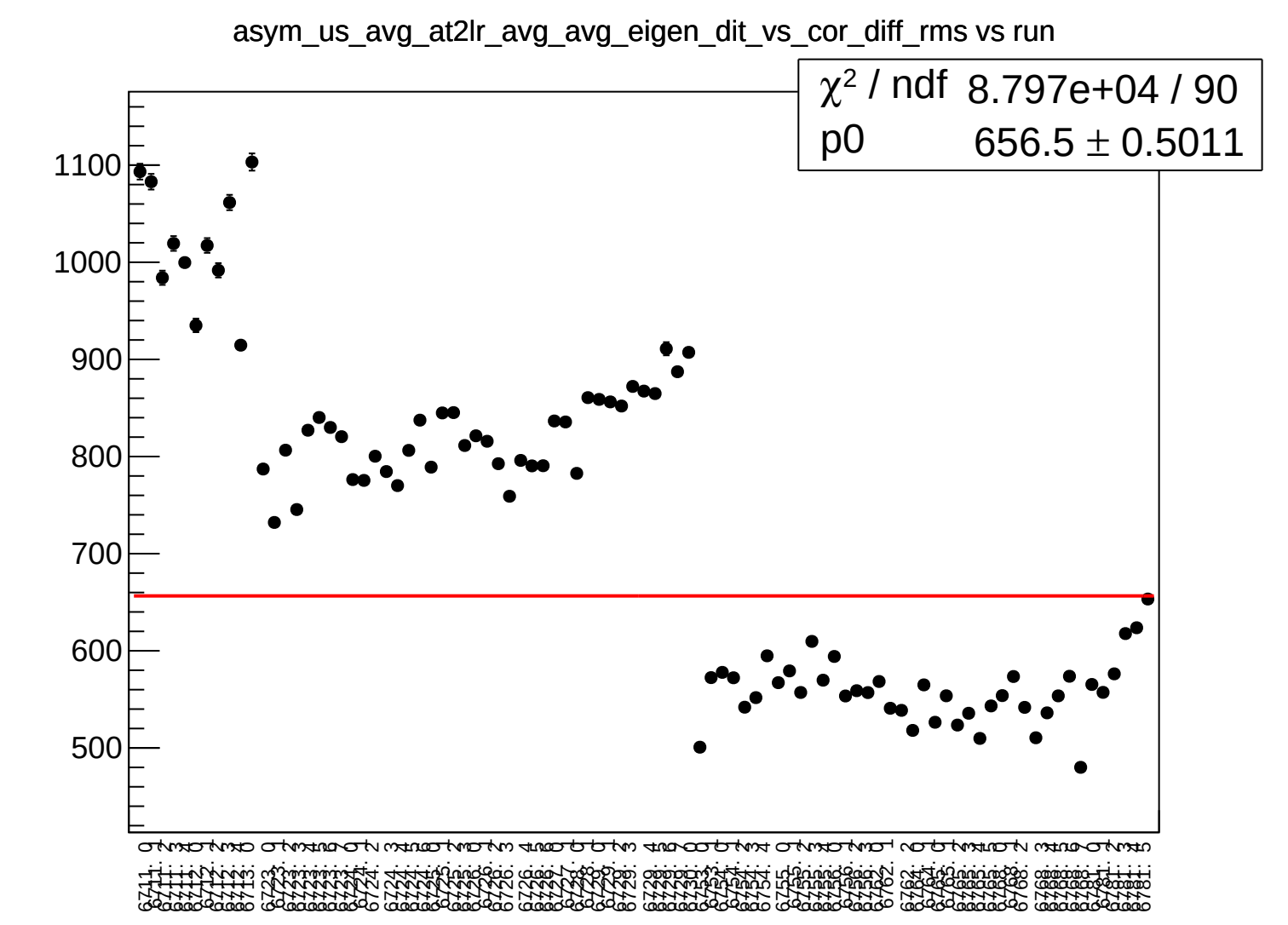

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 102.9 / 90
p0 1.413e−05 ± 1.882e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean −33.59
Std Dev 0
2
1
0
−1
−2

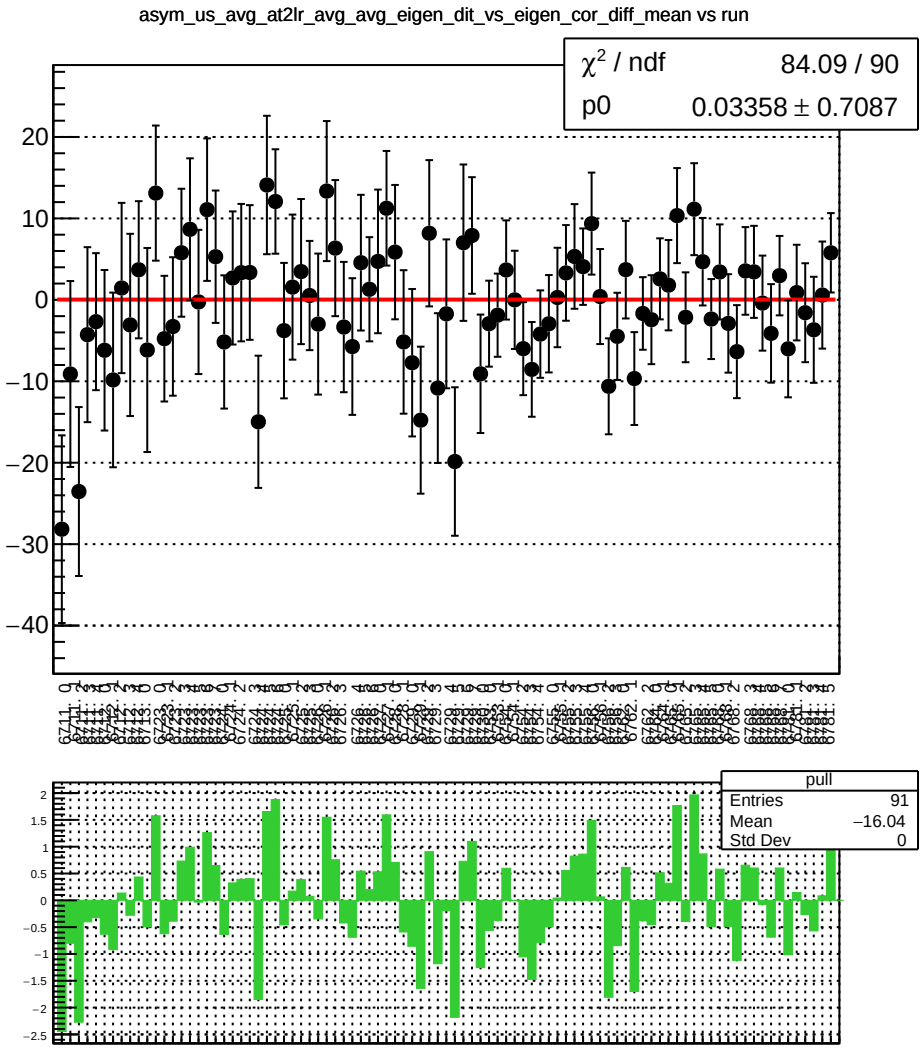

pull1D
Entries 91
Mean −0.05041
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

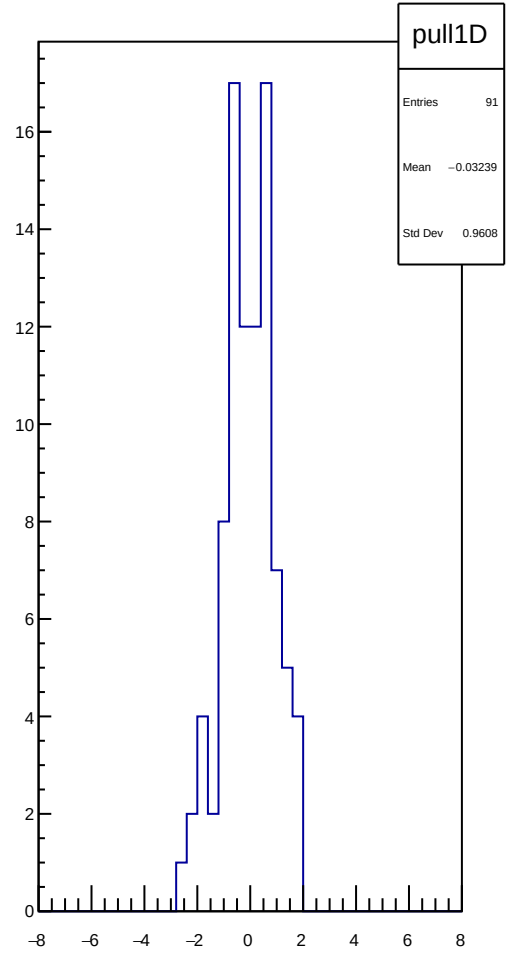

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.105e+05 / 90
p0 0.01626 ± 1.331e−05
0.035
0.03
0.025
0.02
0.015
0.01

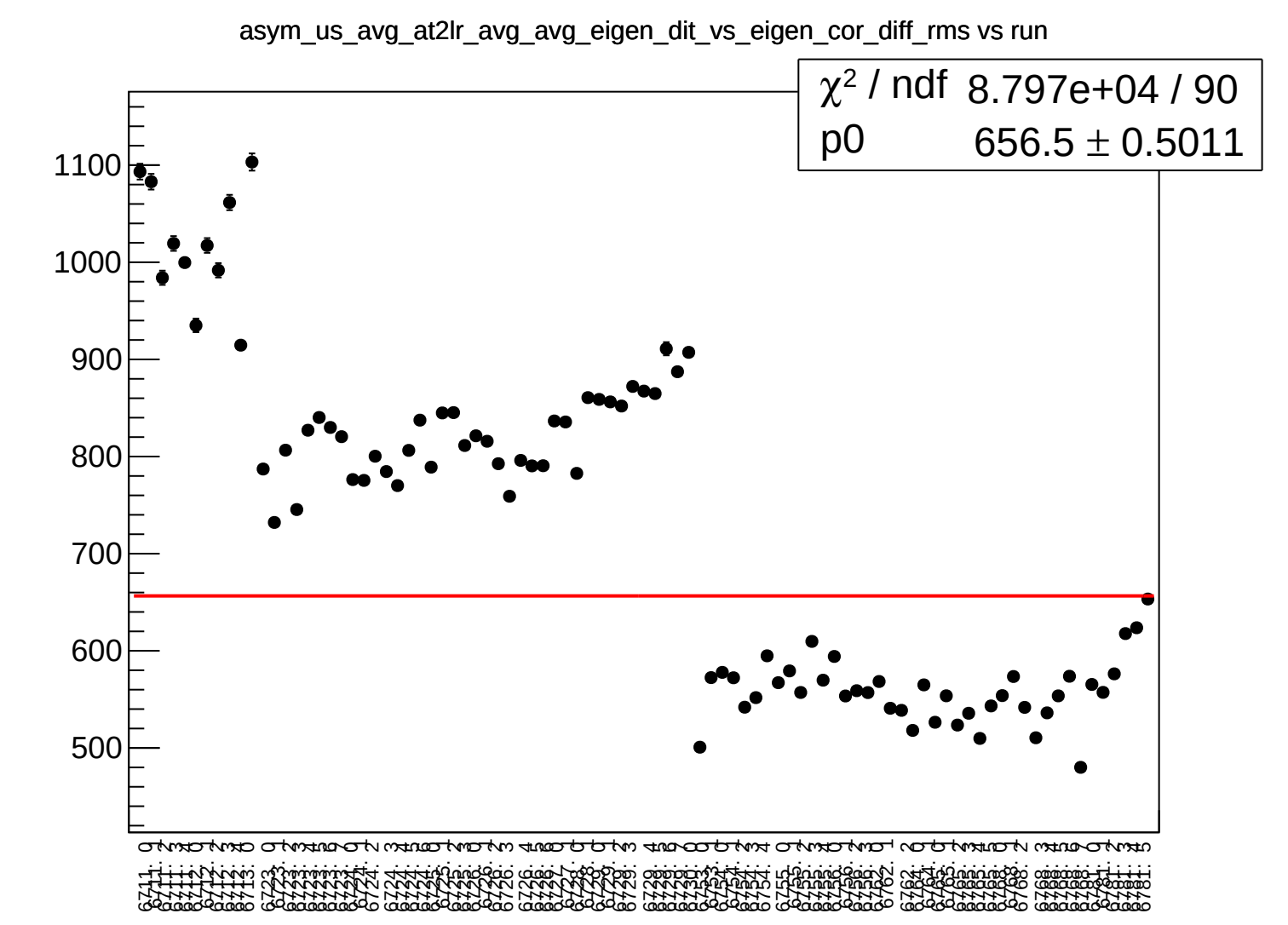

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.09 / 90
p0 0.03358 ± 0.7087
pull
Entries 91
Mean −16.04
Std Dev 0

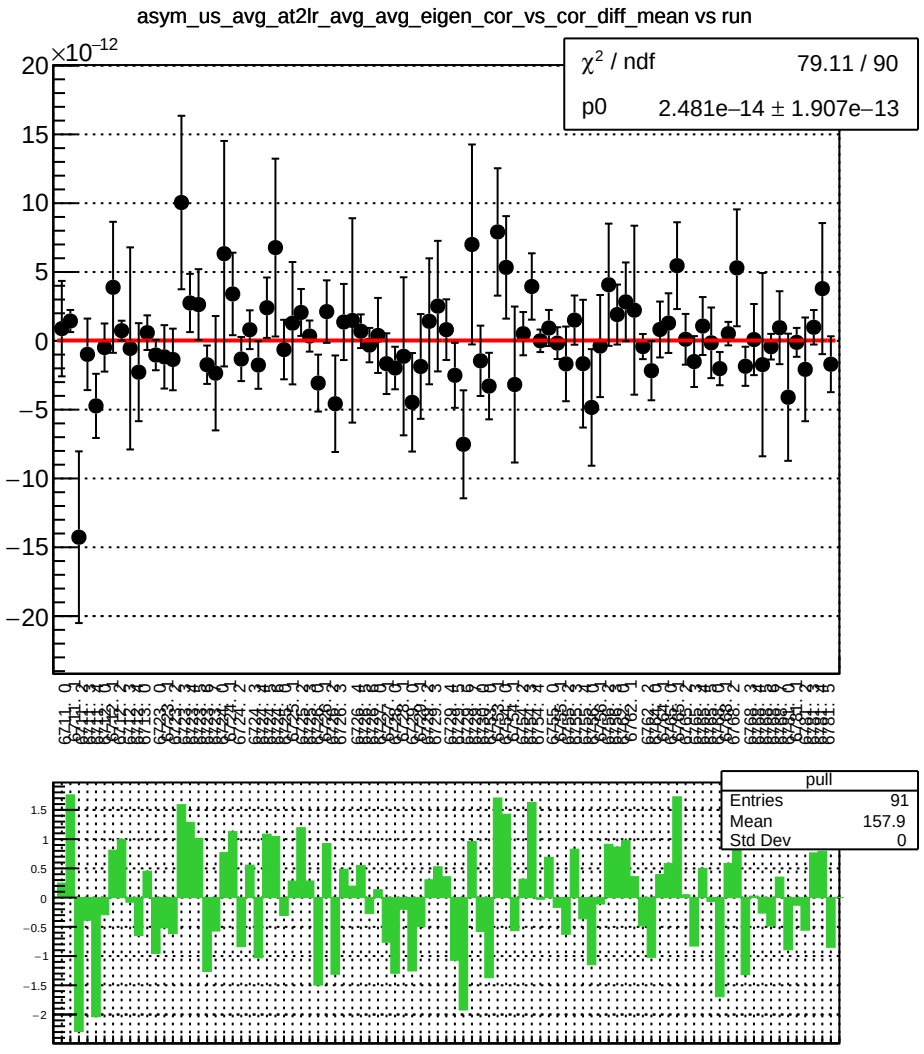

pull1D
Entries 91
Mean −0.03239
Std Dev 0.9608

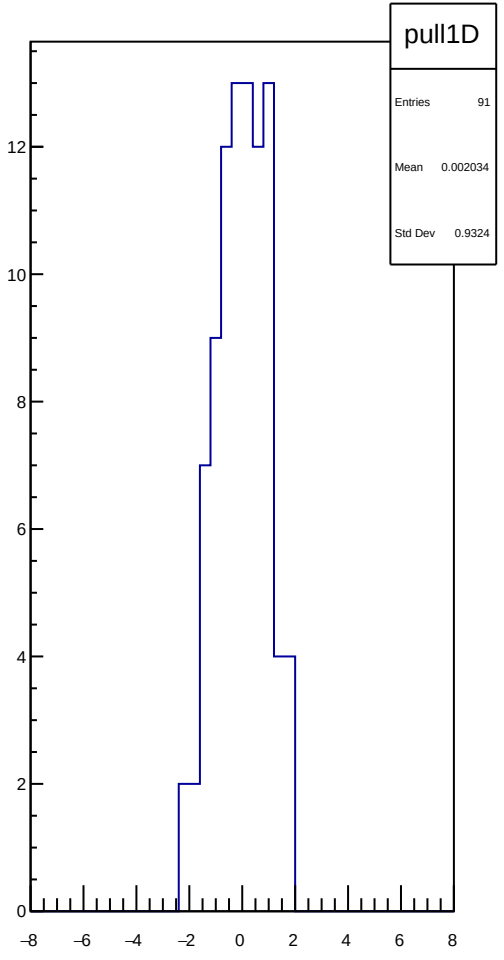

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.797e+04 / 90
p0 656.5 ± 0.5011
1100
1000
900
800
700
600
500

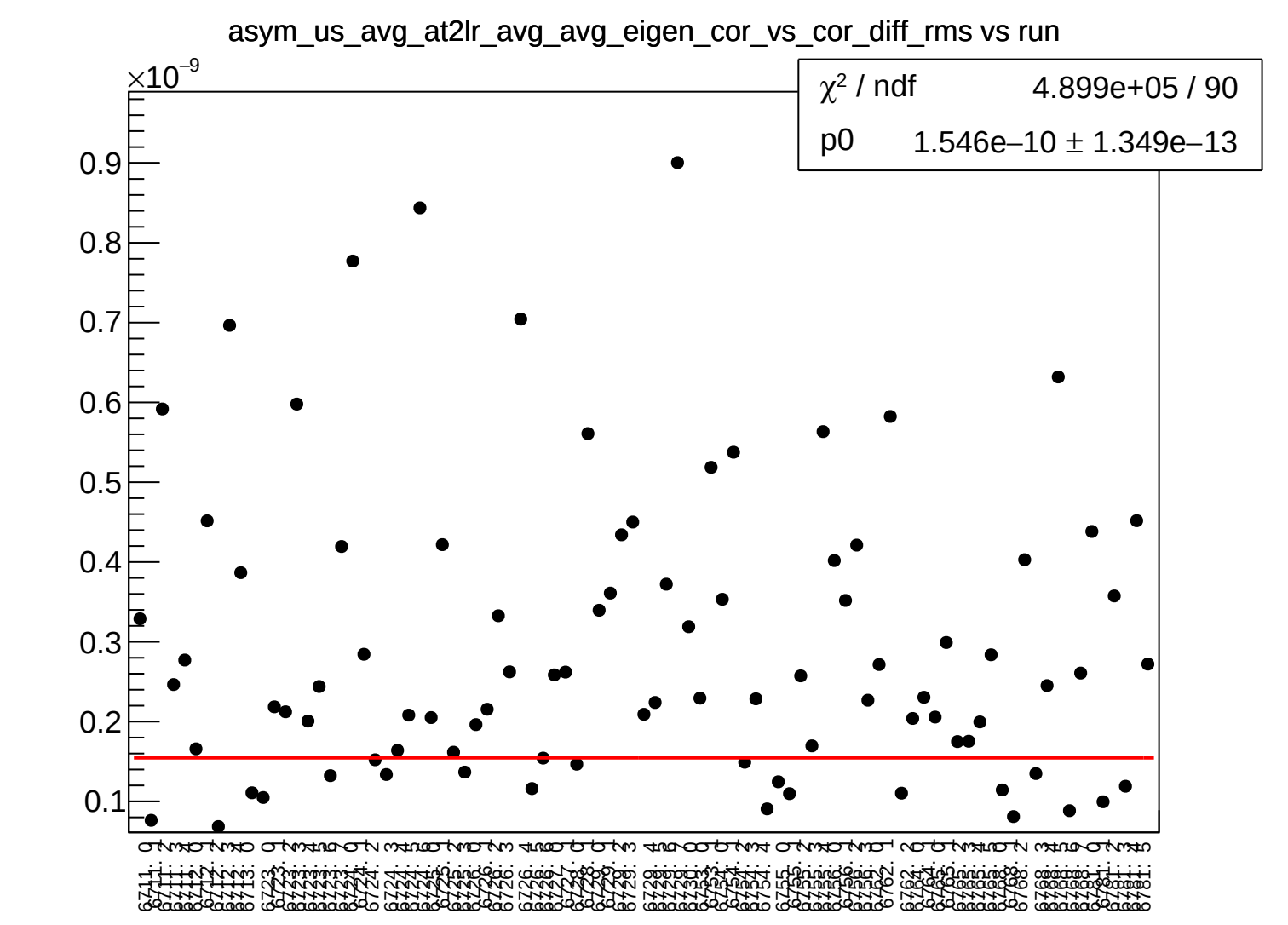

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.09 / 90
p0 0.03358 ± 0.7087
pull
Entries 91
Mean −16.04
Std Dev 0

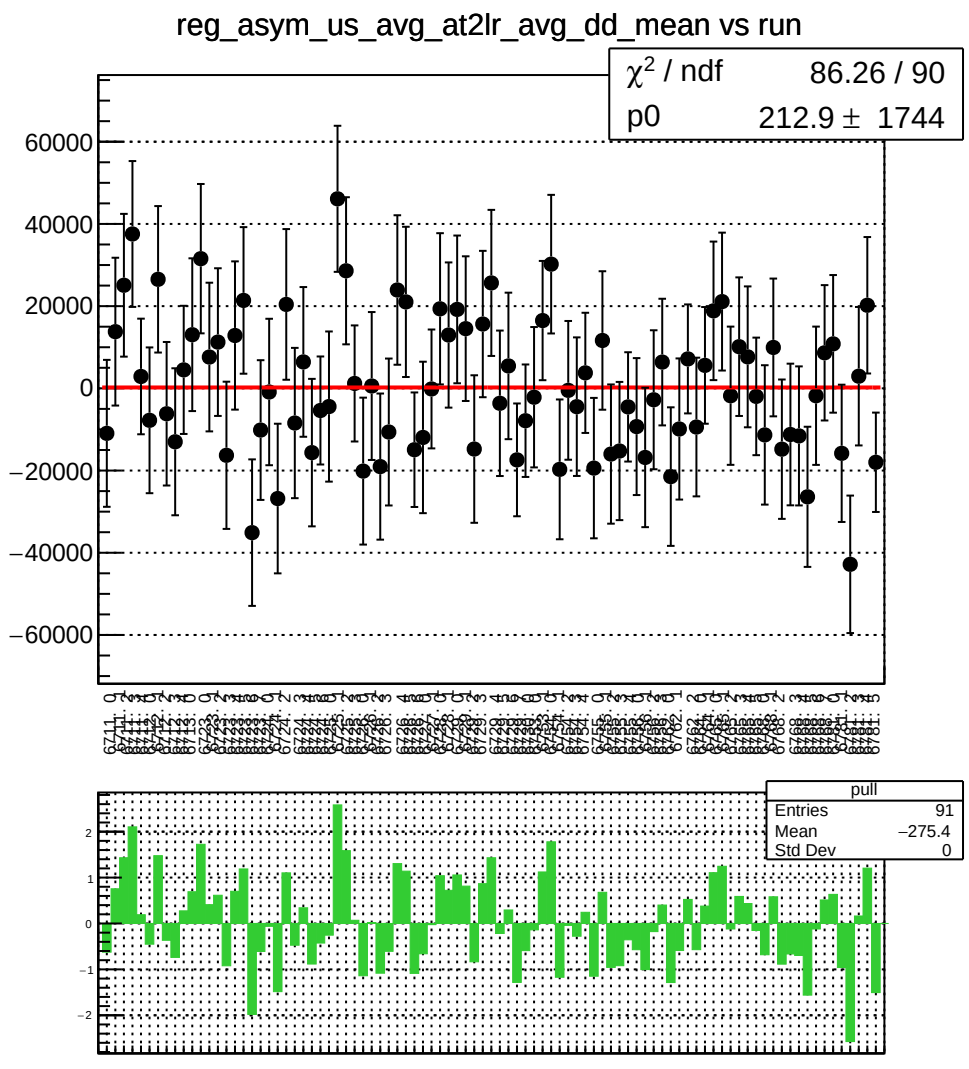

pull1D
Entries 91
Mean −0.03239
Std Dev 0.9608

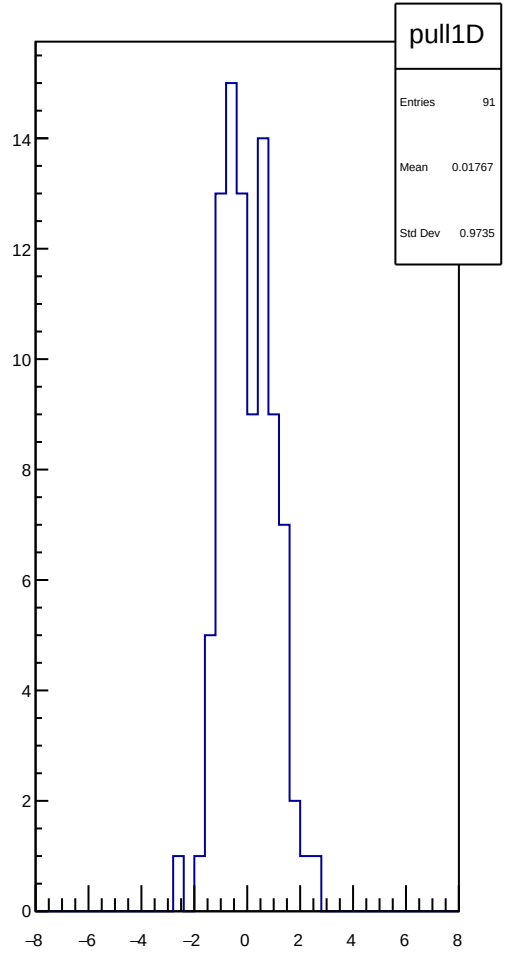

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.797e+04 / 90
p0 656.5 ± 0.5011
1100
1000
900
800
700
600
500

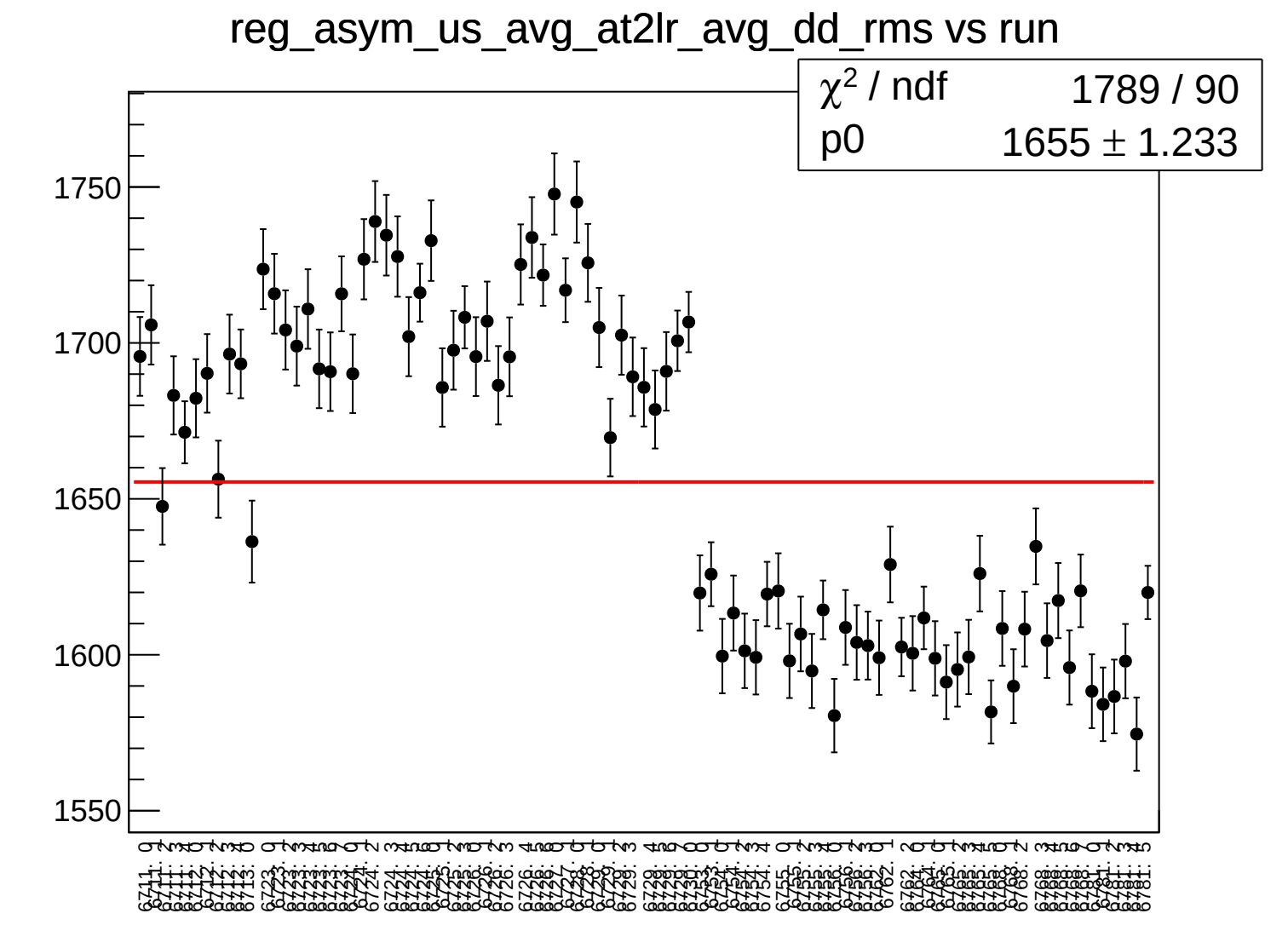

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.11 / 90
p0 2.481e−14 ± 1.907e−13
pull
Entries 91
Mean 157.9
Std Dev 0

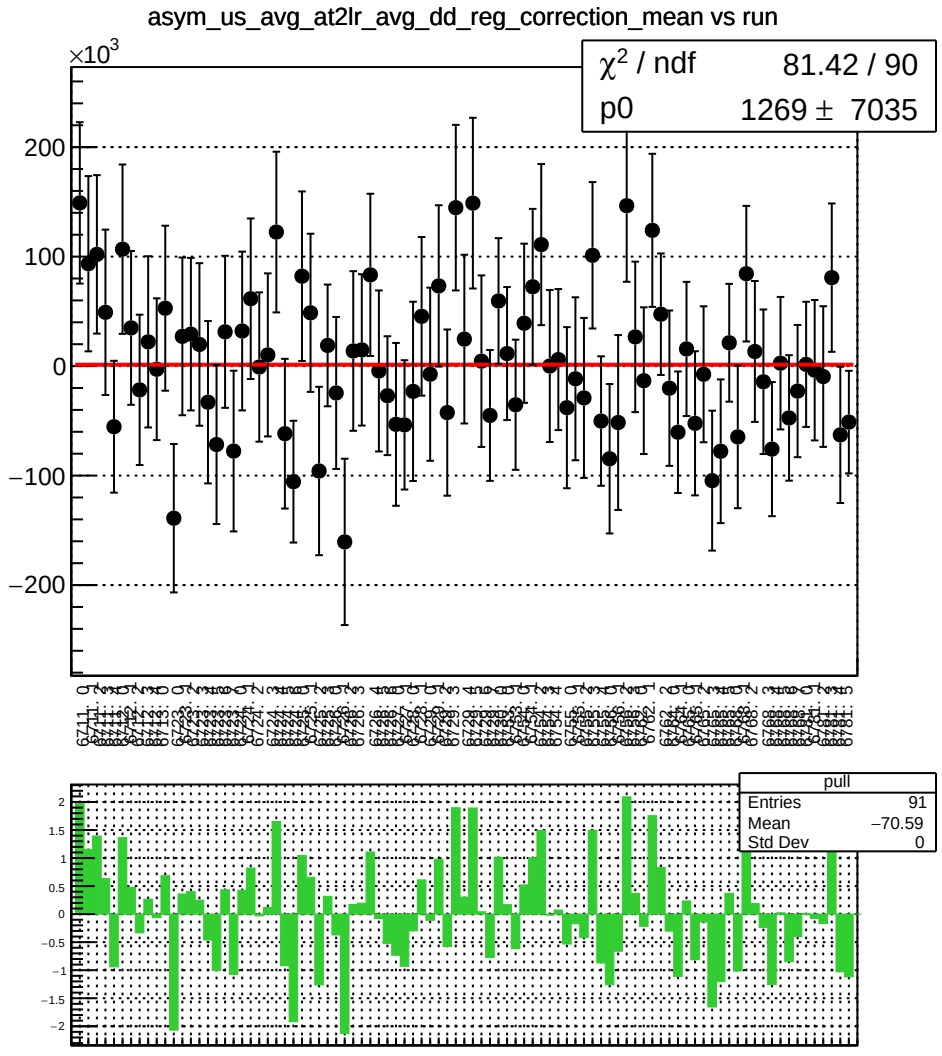

pull1D
Entries 91
Mean 0.002034
Std Dev 0.9324

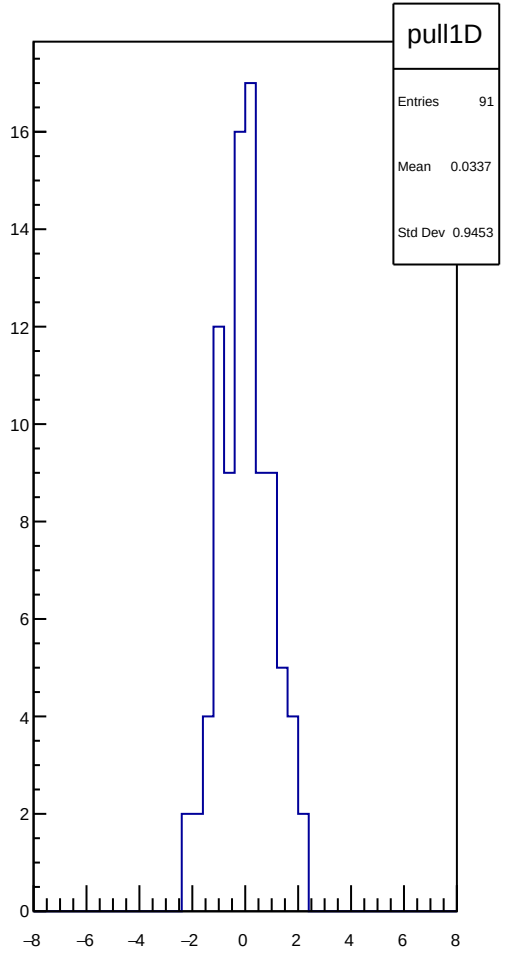

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.899e+05 / 90
p0 1.546e−10 ± 1.349e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

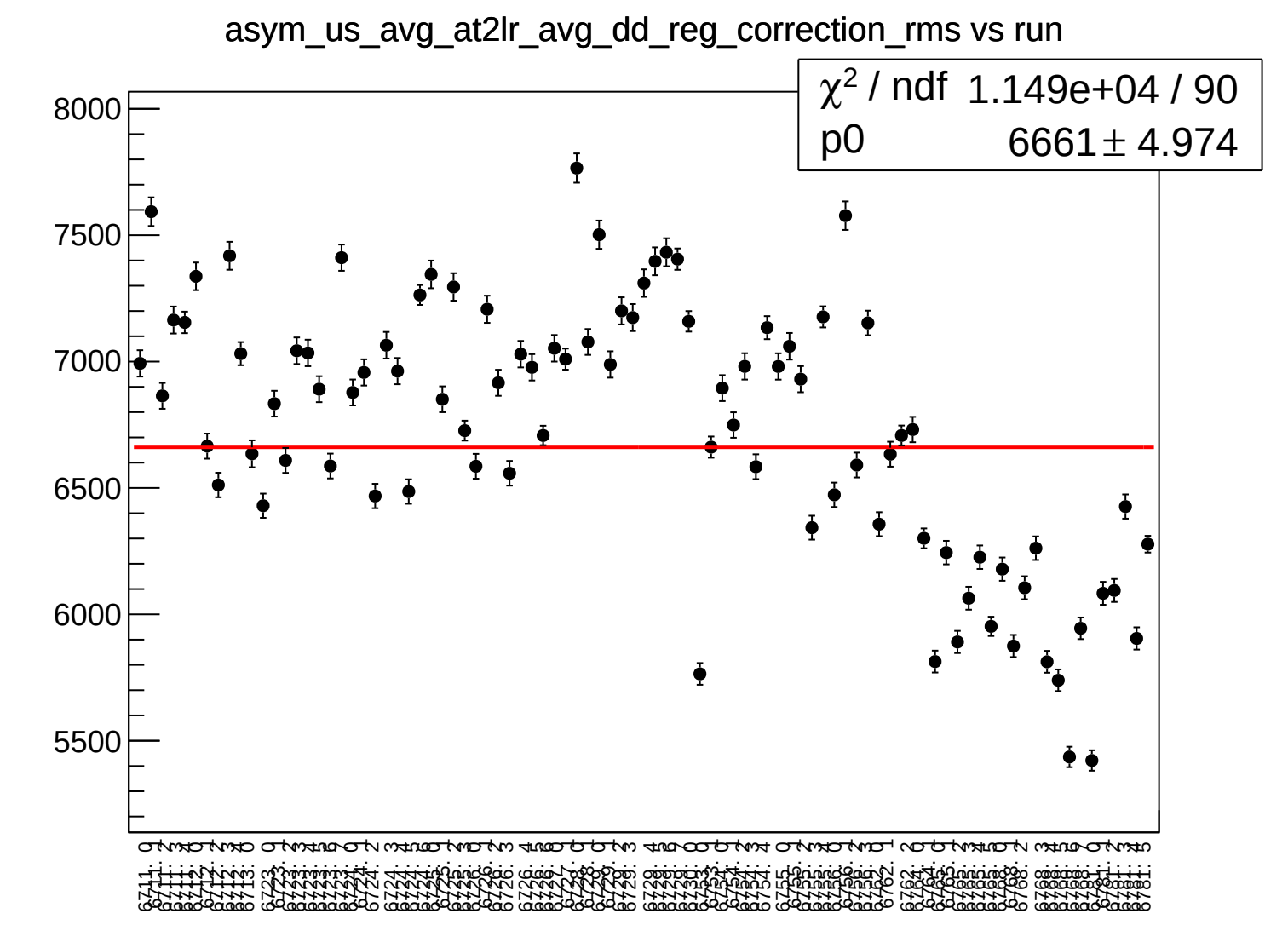

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 86.26 / 90
p0 212.9 ± 1744
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −275.4
Std Dev 0
2
1
0
−1
−2

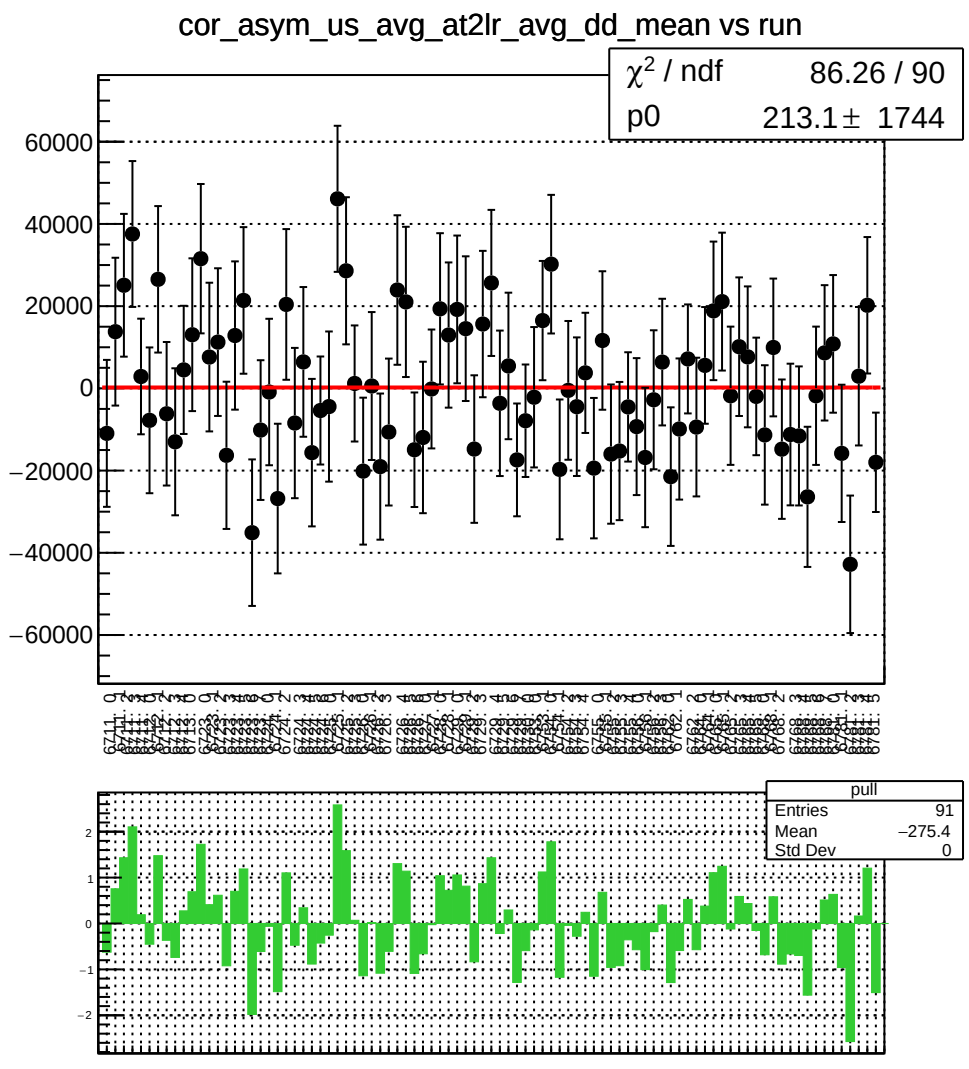

pull1D
Entries 91
Mean 0.01767
Std Dev 0.9735
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

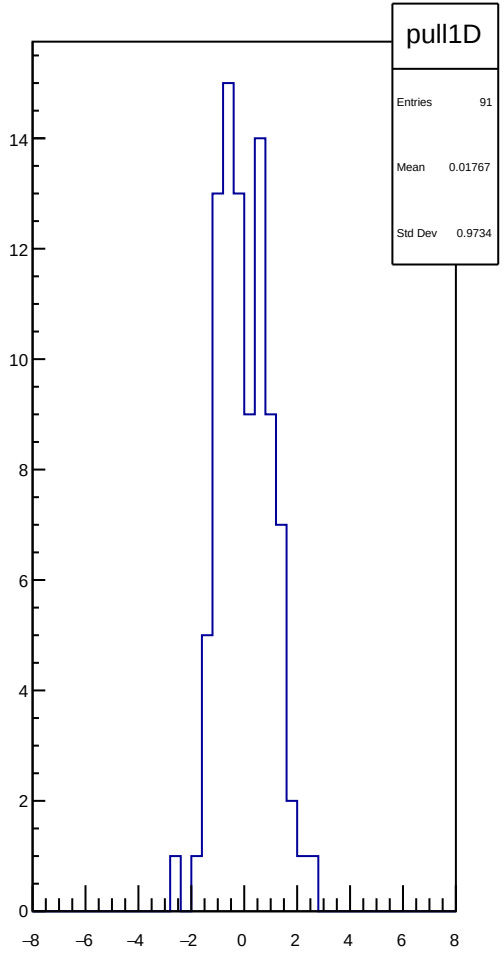

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1789 / 90
p0 1655 ± 1.233
1750
1700
1650
1600
1550

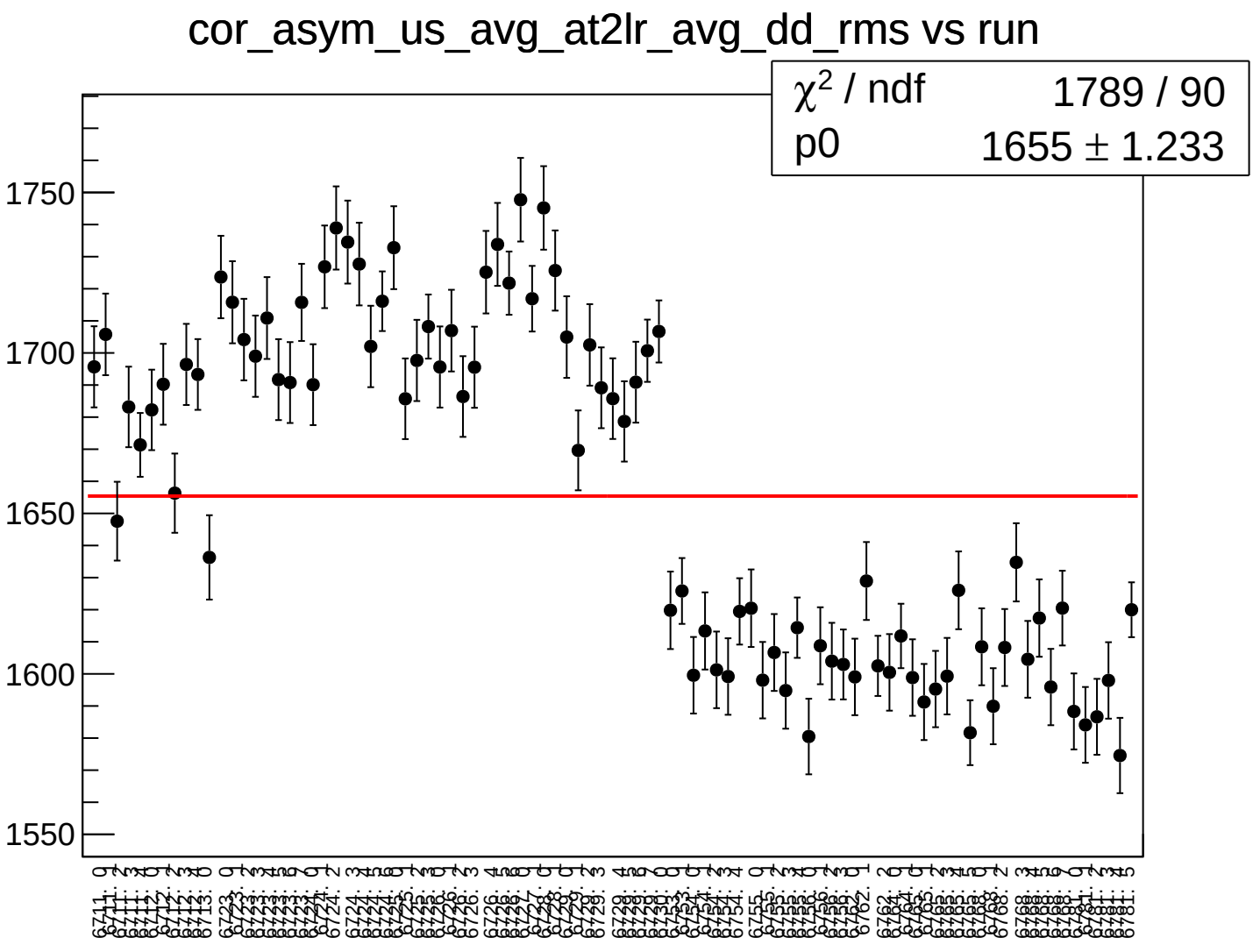

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 81.42 / 90
p0 1269 ± 7035
200
100
0
−100
−200
pull
Entries 91
Mean −70.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

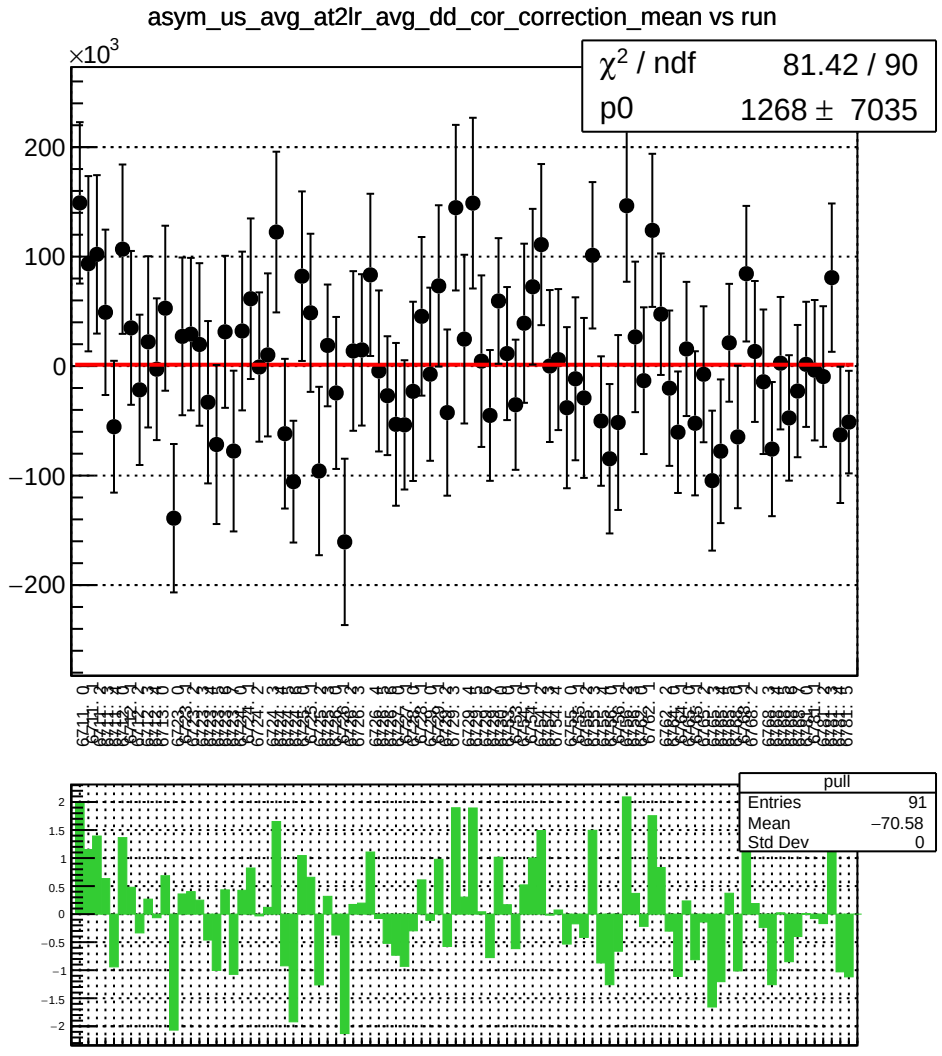

pull1D
Entries 91
Mean 0.0337
Std Dev 0.9453
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

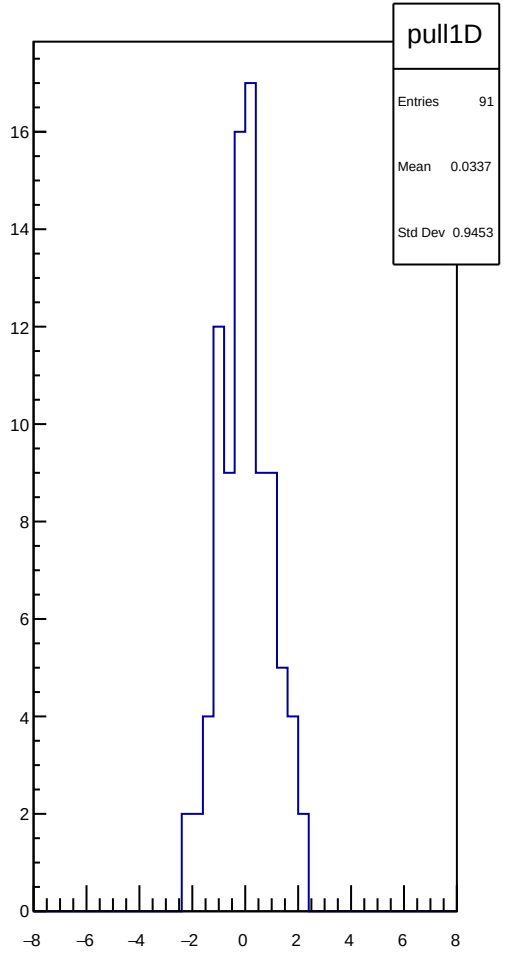

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.149e+04 / 90
p0 6661 ± 4.974
8000
7500
7000
6500
6000
5500

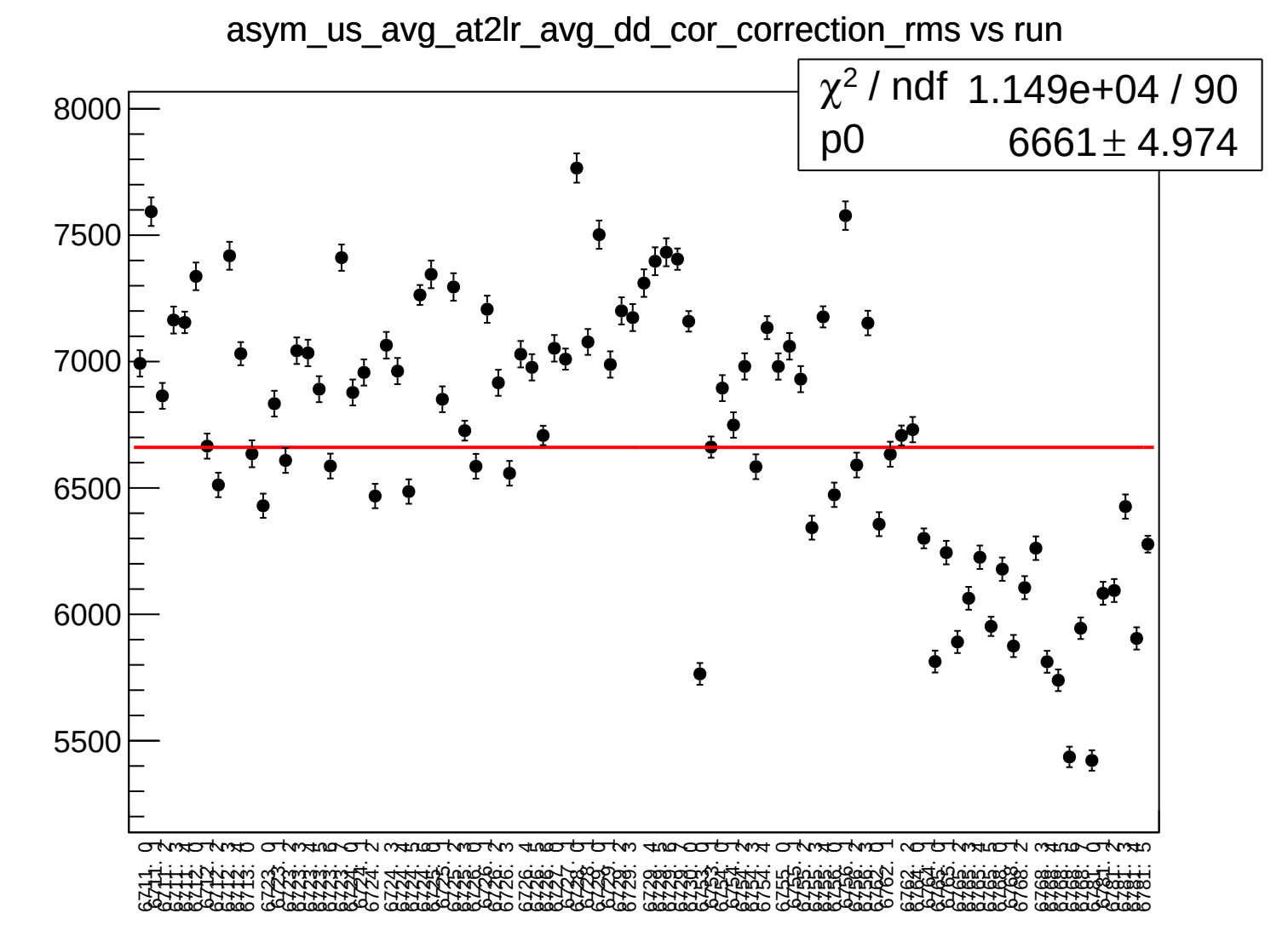

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 86.26 / 90
p0 213.1± 1744
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −275.4
Std Dev 0
2
1
0
−1
−2

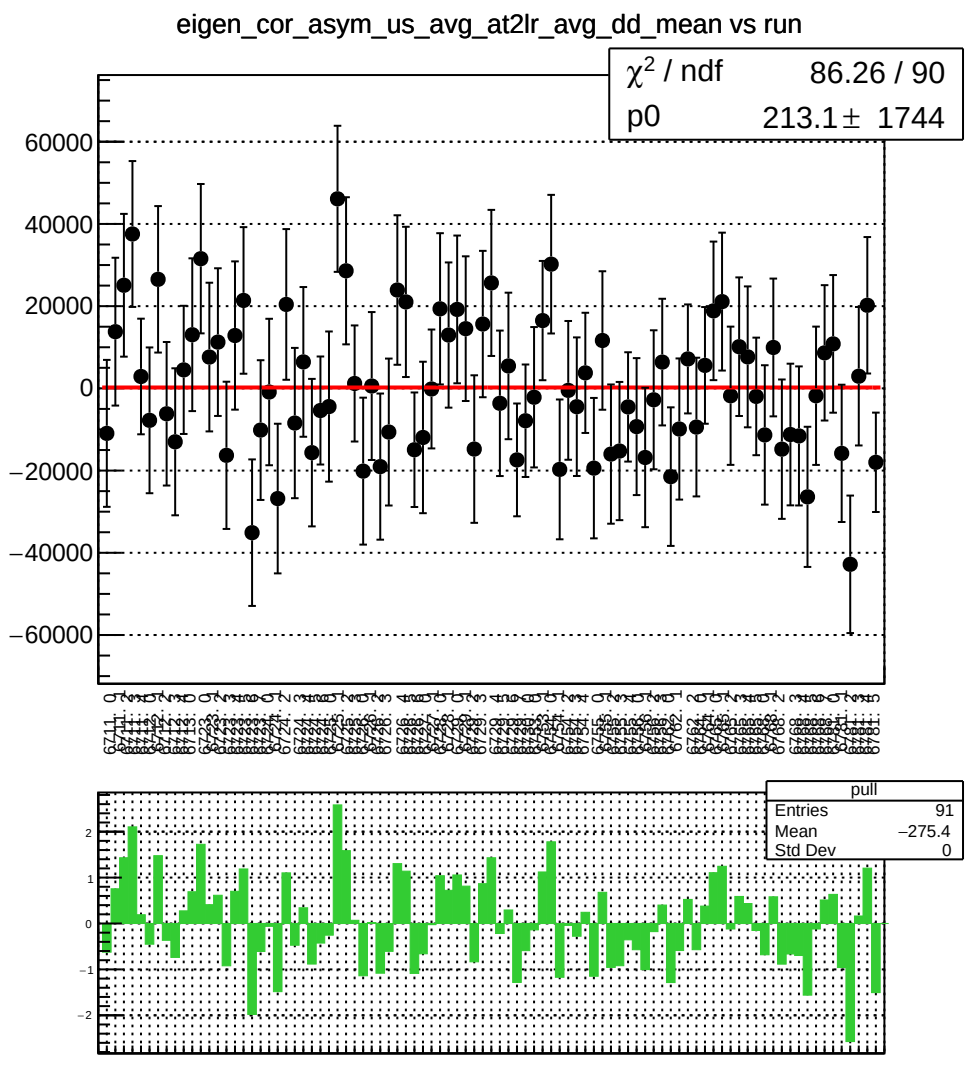

pull1D
Entries 91
Mean 0.01767
Std Dev 0.9734
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

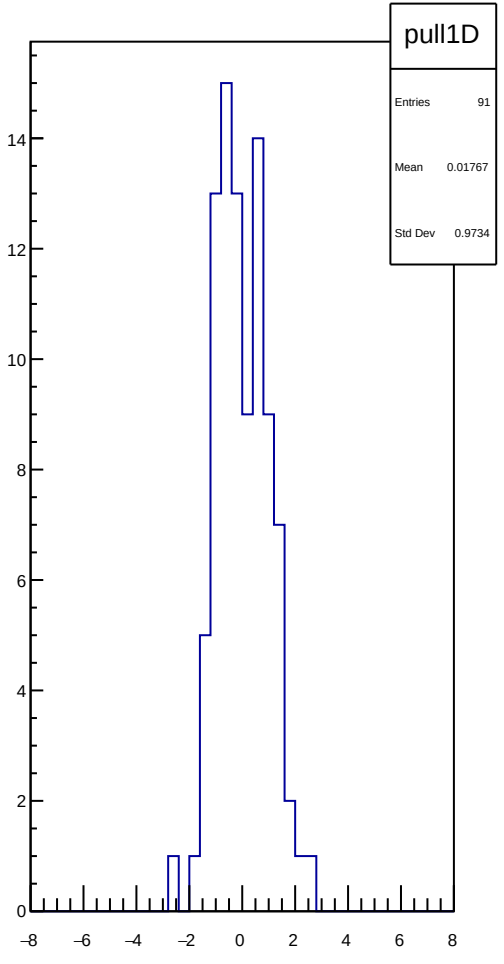

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1789 / 90
p0 1655 ± 1.233
1750
1700
1650
1600
1550

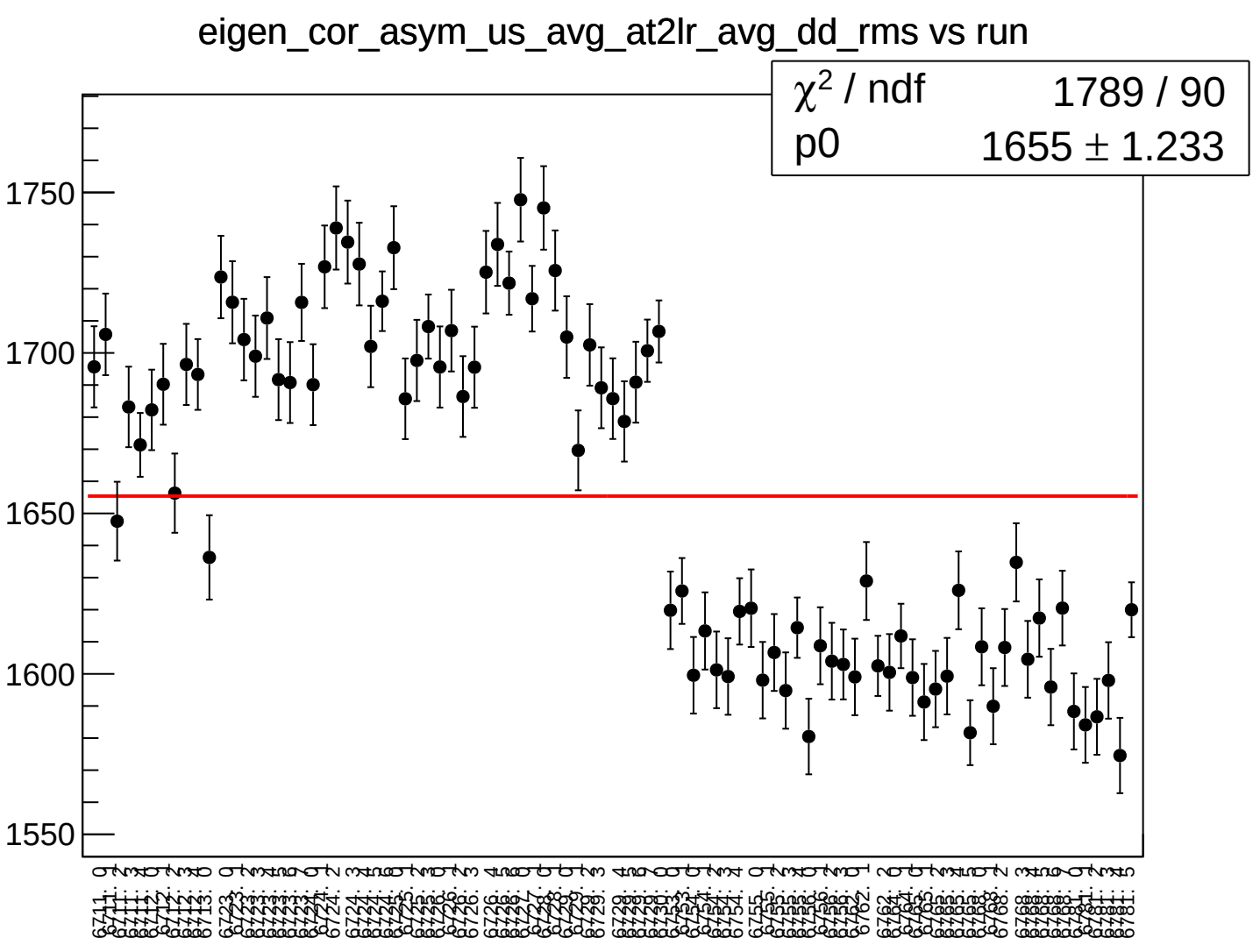

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 81.42 / 90
p0 1268 ± 7035
200
100
0
−100
−200
pull
Entries 91
Mean −70.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

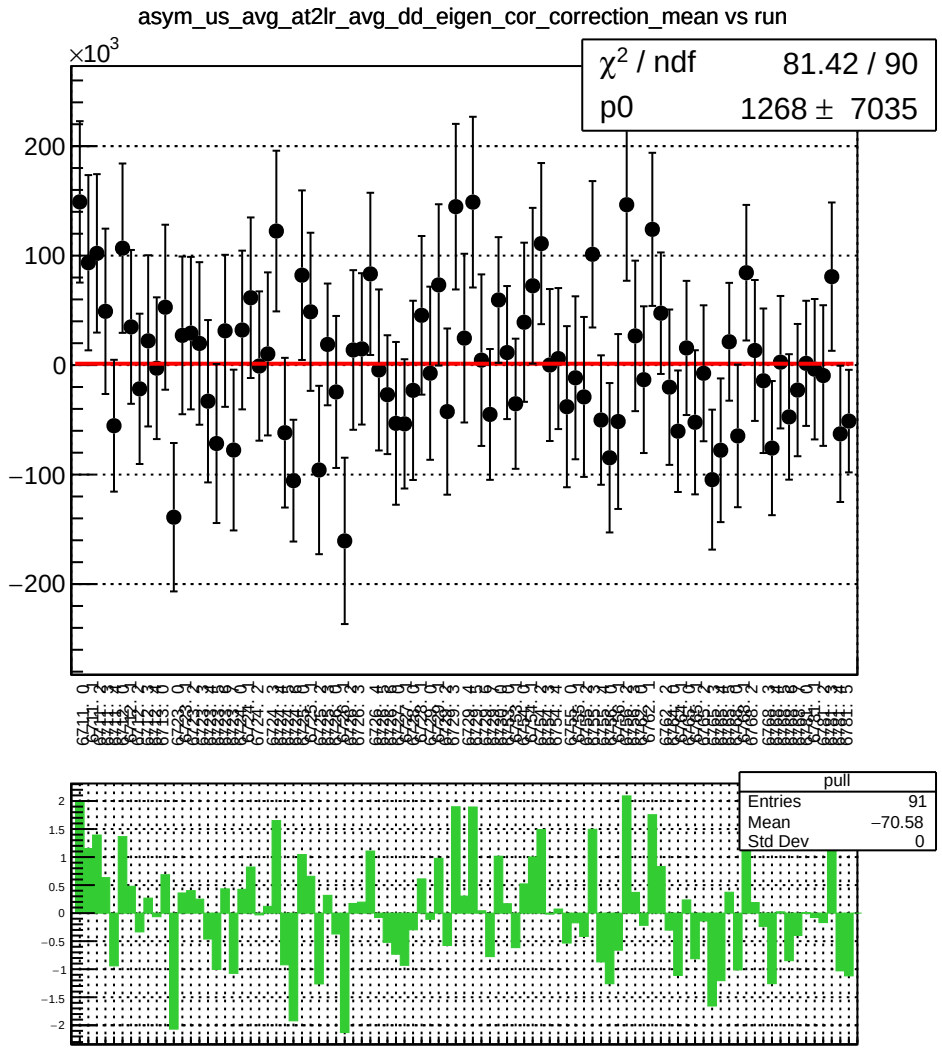

pull1D
Entries 91
Mean 0.0337
Std Dev 0.9453
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

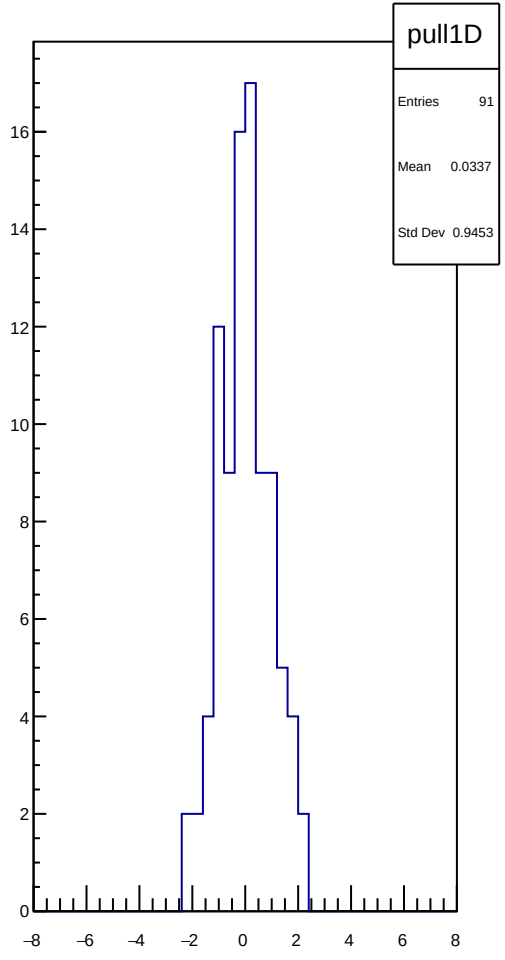

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.149e+04 / 90
p0 6661 ± 4.974
8000
7500
7000
6500
6000
5500

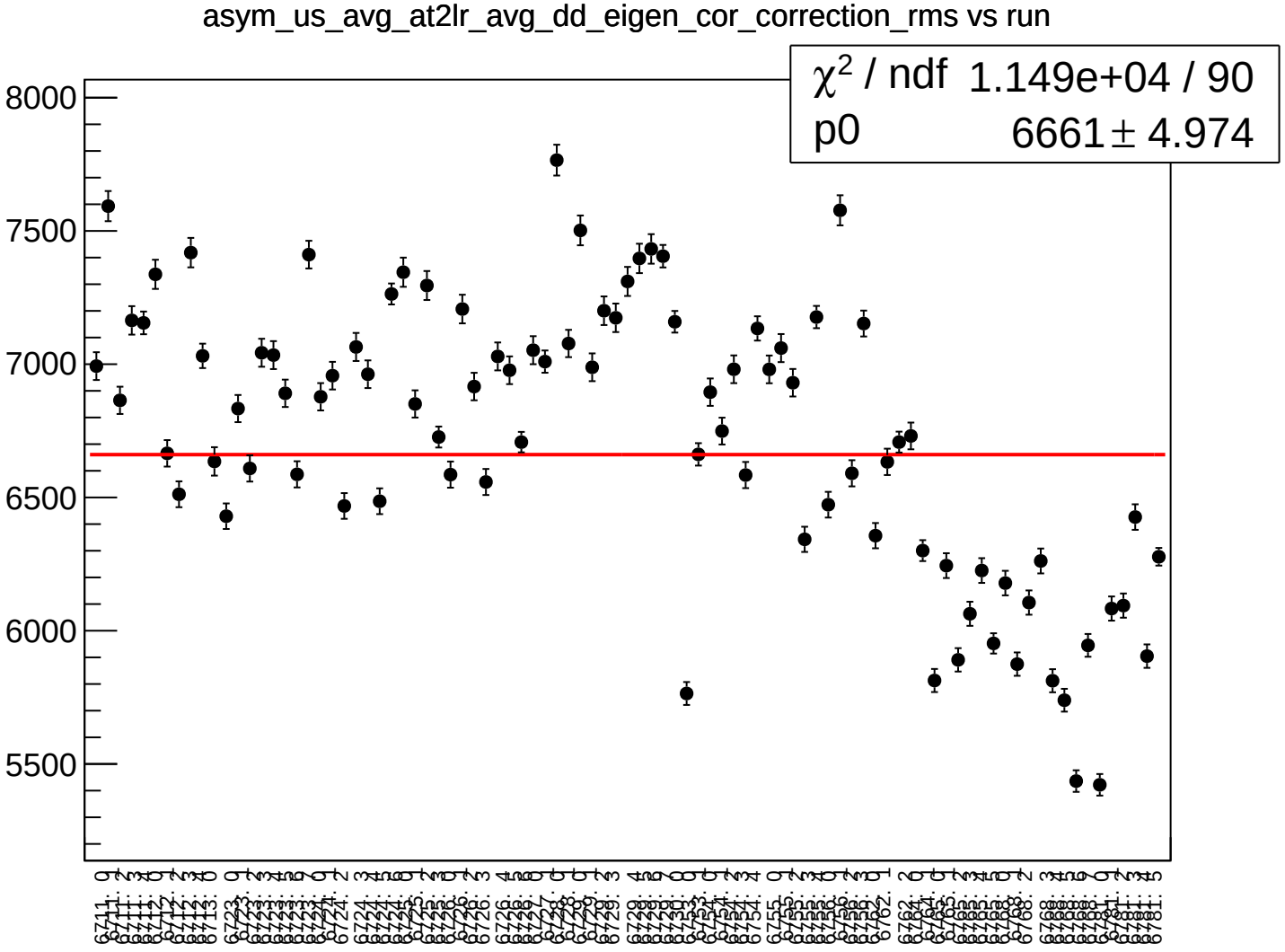

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 86.26 / 90
p0 213.1 ± 1744
pull
Entries 91
Mean −275.4
Std Dev 0

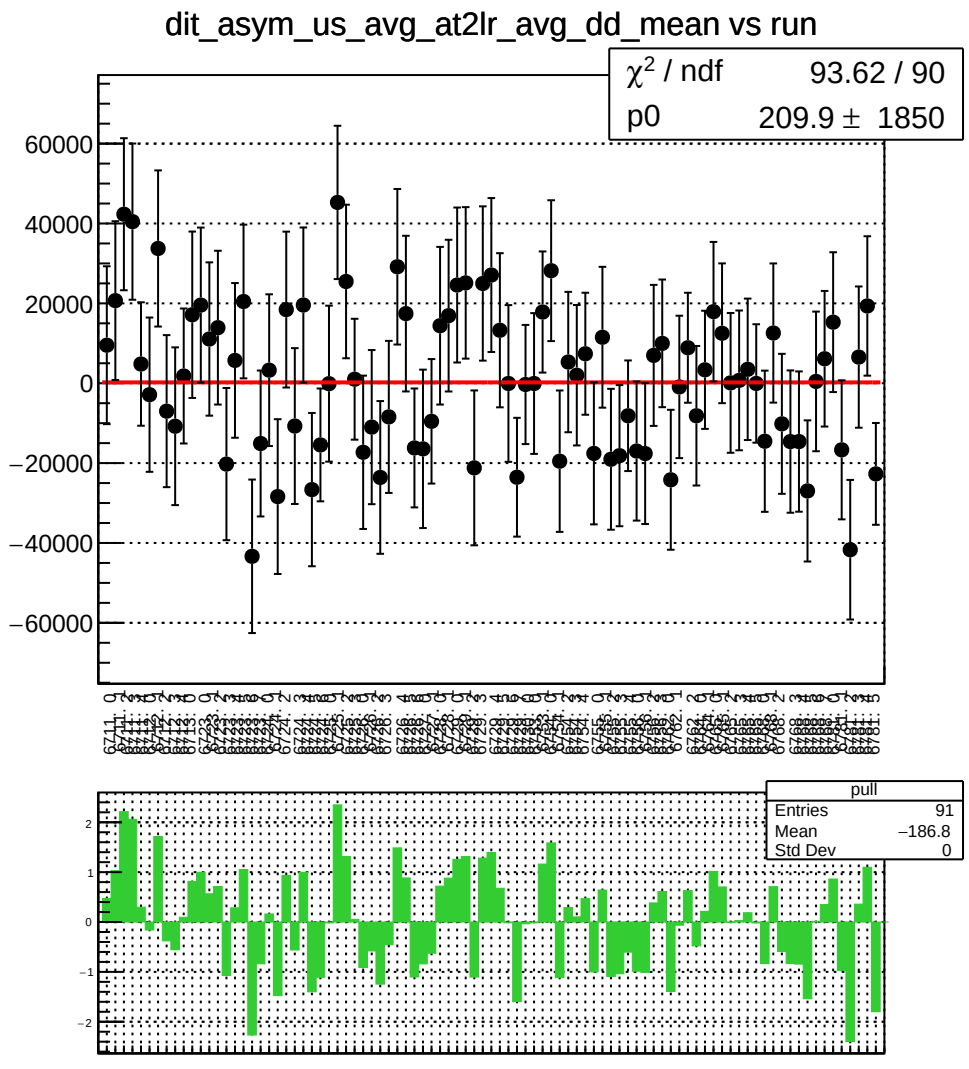

pull1D
Entries 91
Mean 0.01767
Std Dev 0.9734

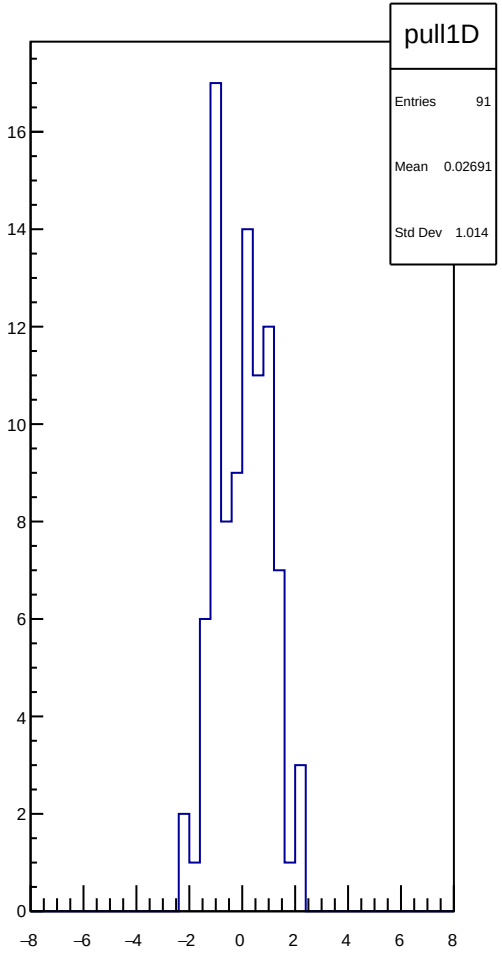

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1789 / 90
p0 1655 ± 1.233
1750
1700
1650
1600
1550

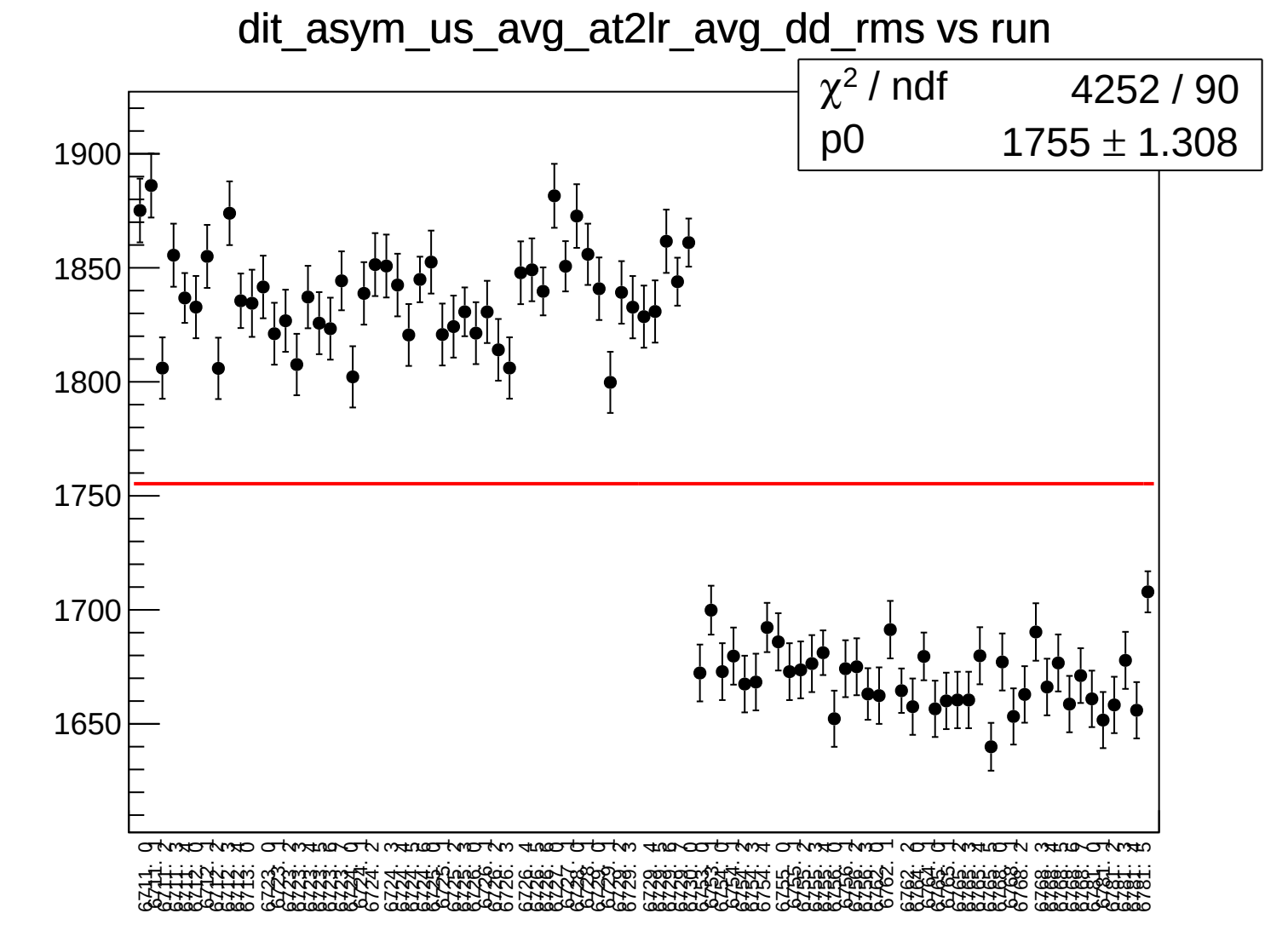

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 81.42 / 90
p0 1268 ± 7035
200
100
0
−100
−200
pull
Entries 91
Mean −70.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

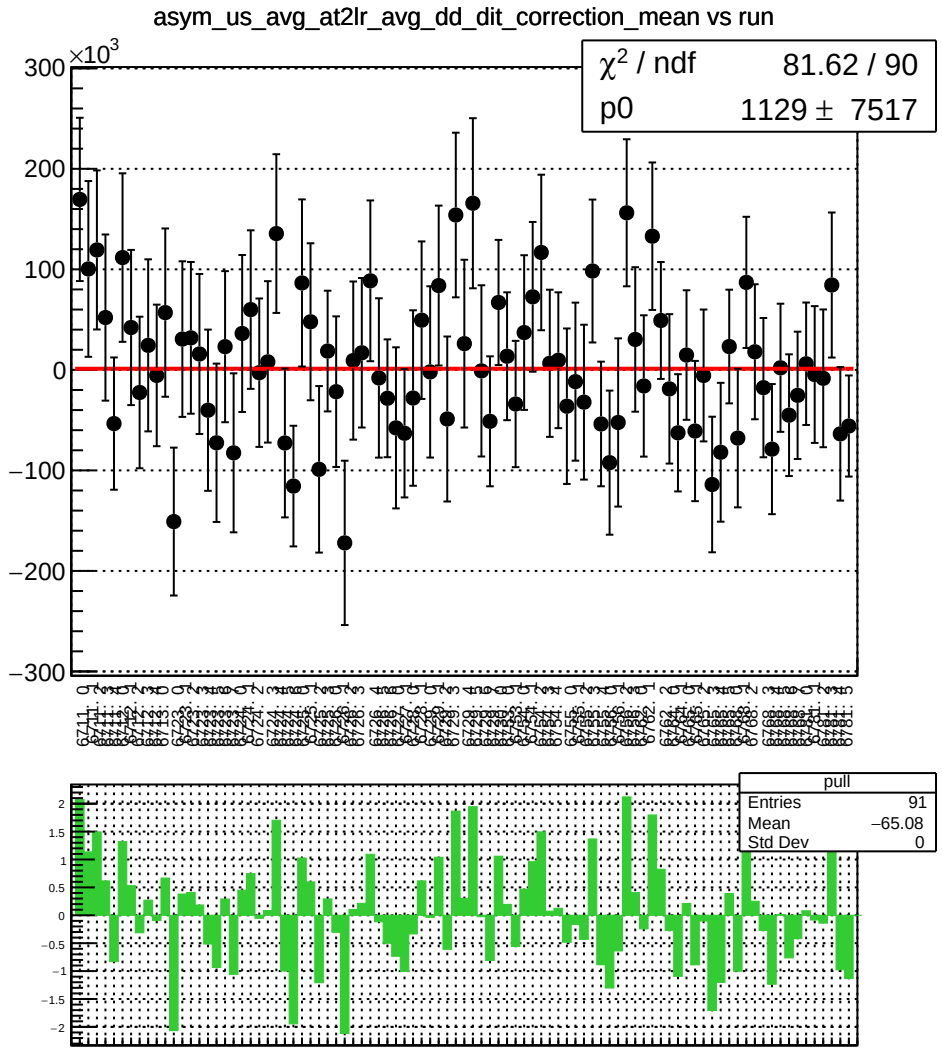

pull1D
Entries 91
Mean 0.0337
Std Dev 0.9453
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

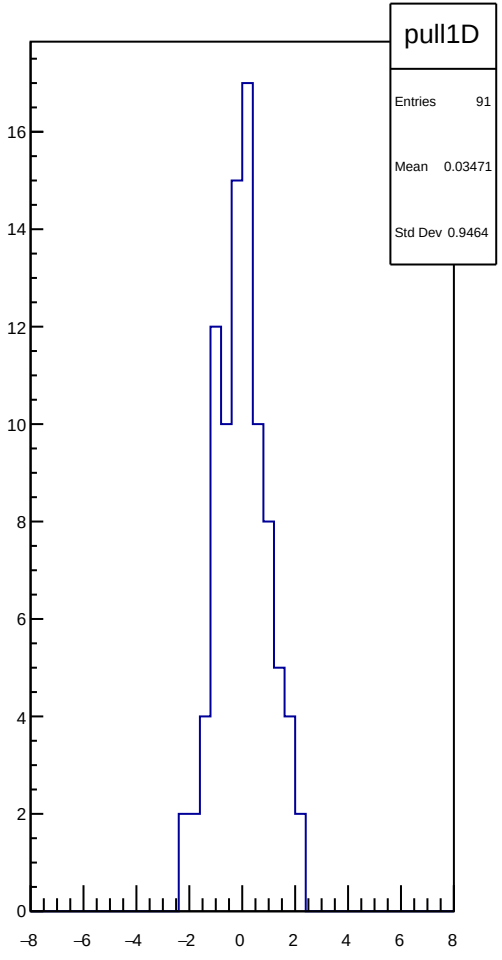

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.149e+04 / 90
p0 6661 ± 4.974
8000
7500
7000
6500
6000
5500

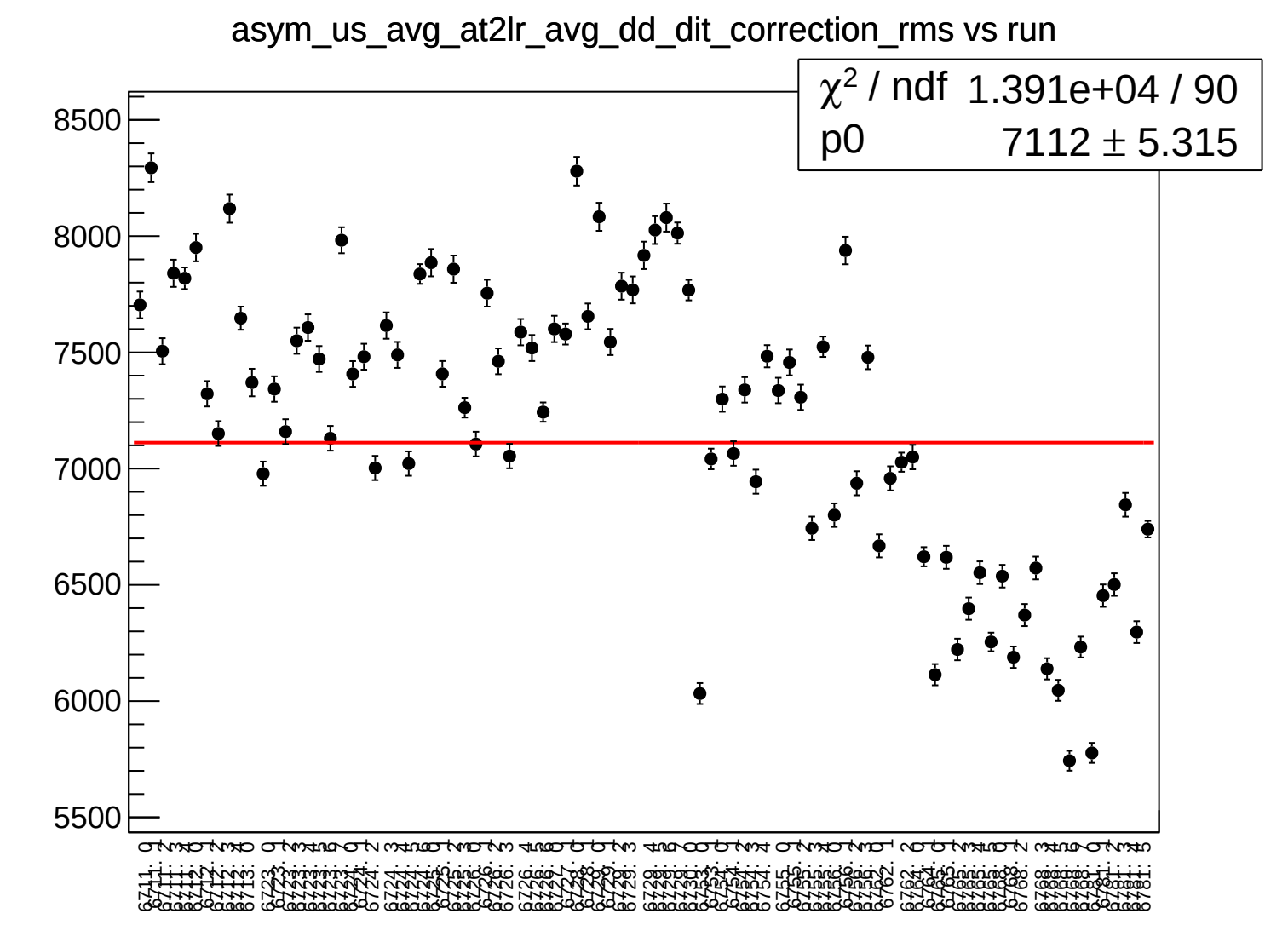

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 93.62 / 90
p0 209.9 ± 1850
pull
Entries 91
Mean −186.8
Std Dev 0

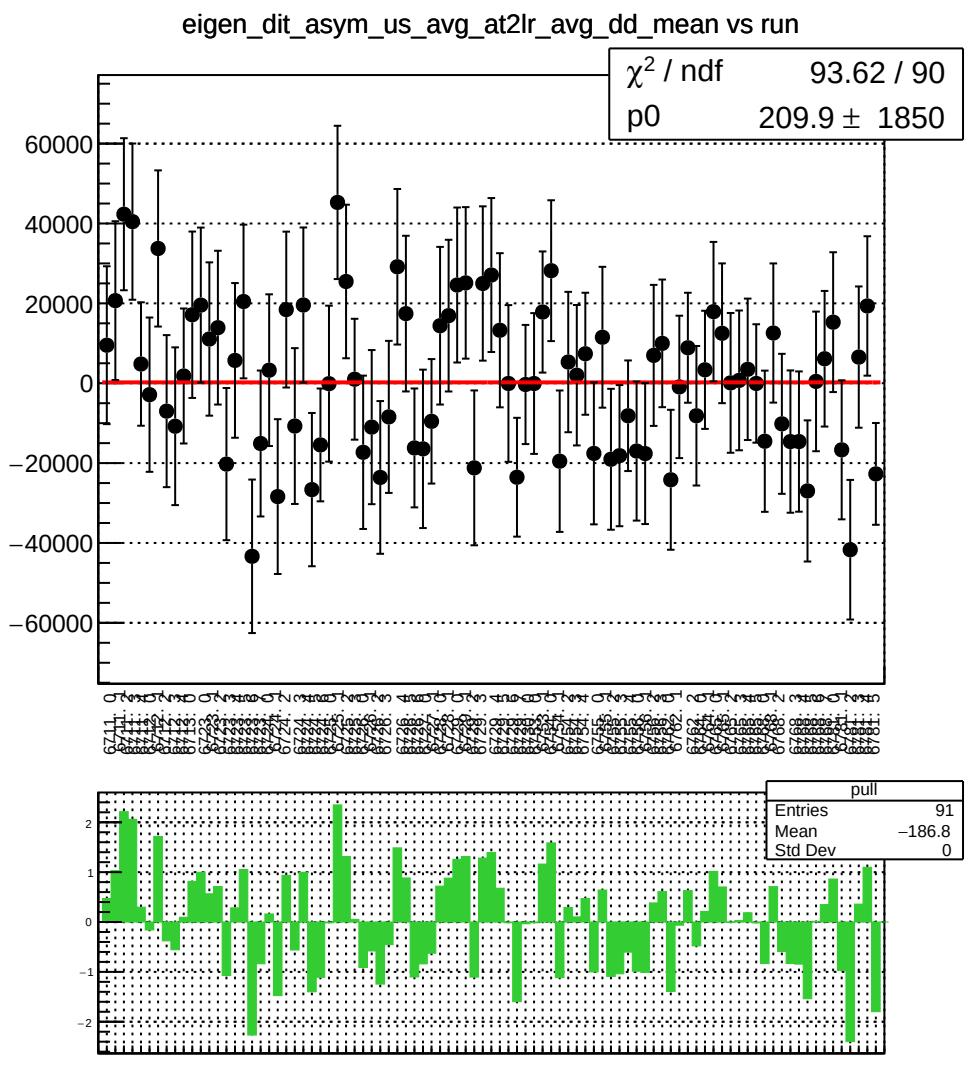

pull1D
Entries 91
Mean 0.02691
Std Dev 1.014

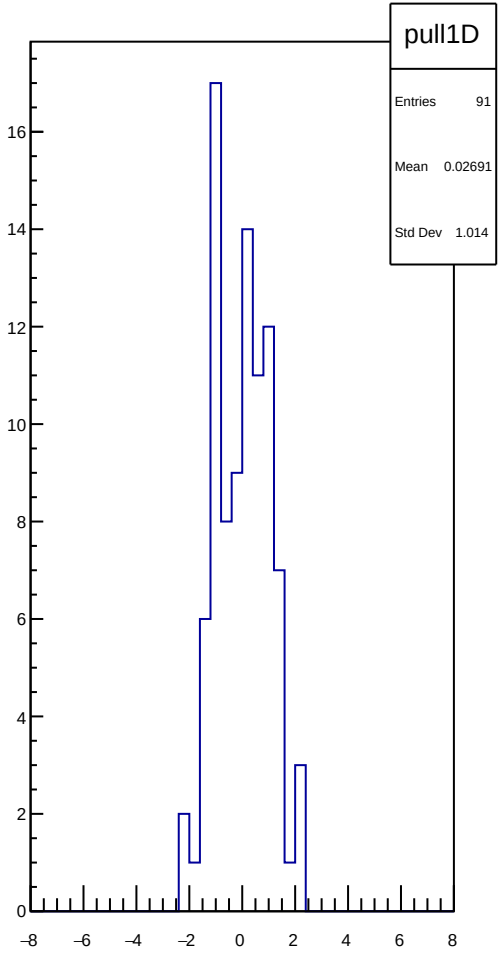

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 4252 / 90
p0 1755 ± 1.308
1900
1850
1800
1750
1700
1650

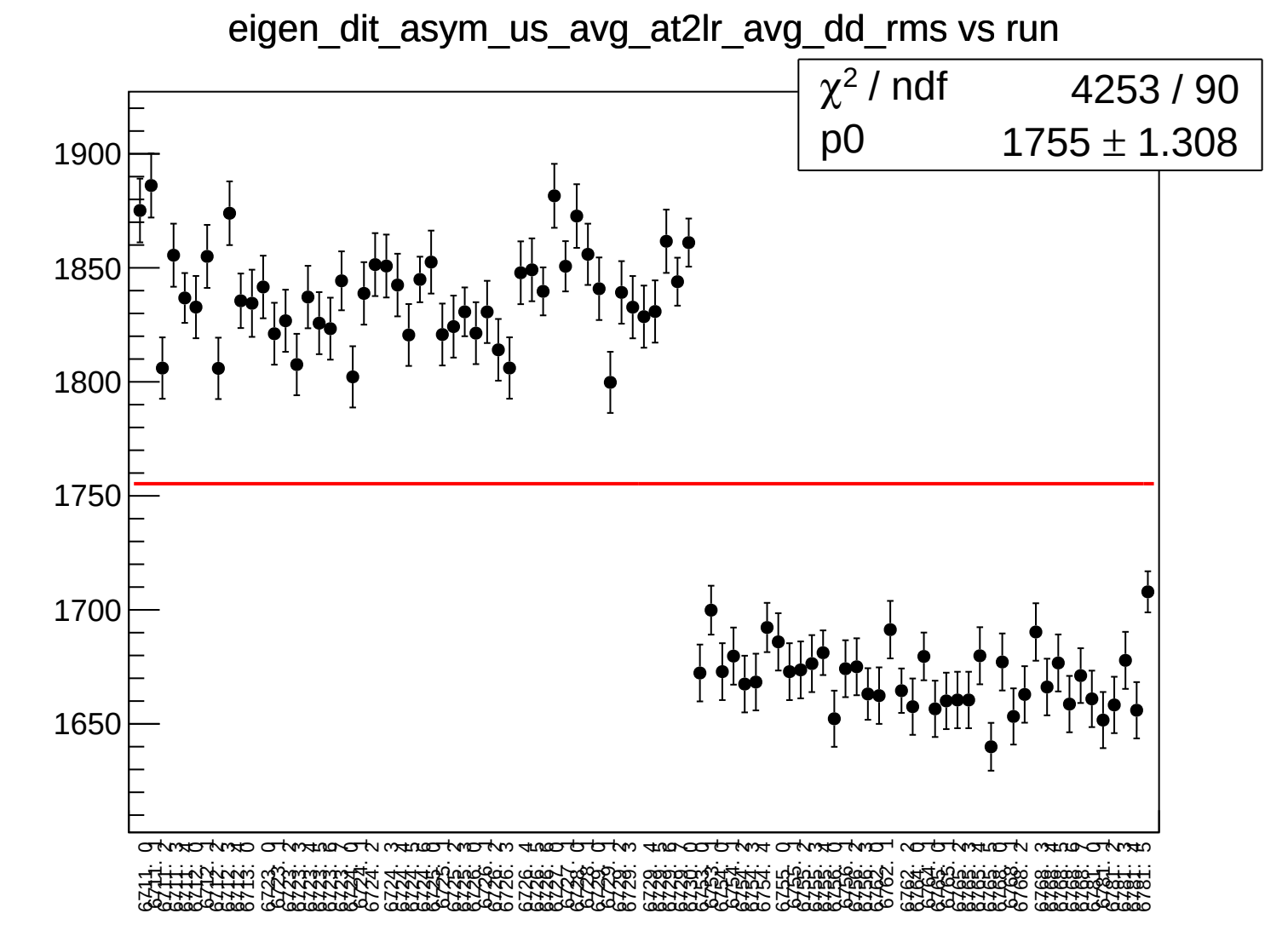

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
χ² / ndf 81.62 / 90
p0 1129 ± 7517
×10³
pull
Entries 91
Mean −65.08
Std Dev 0

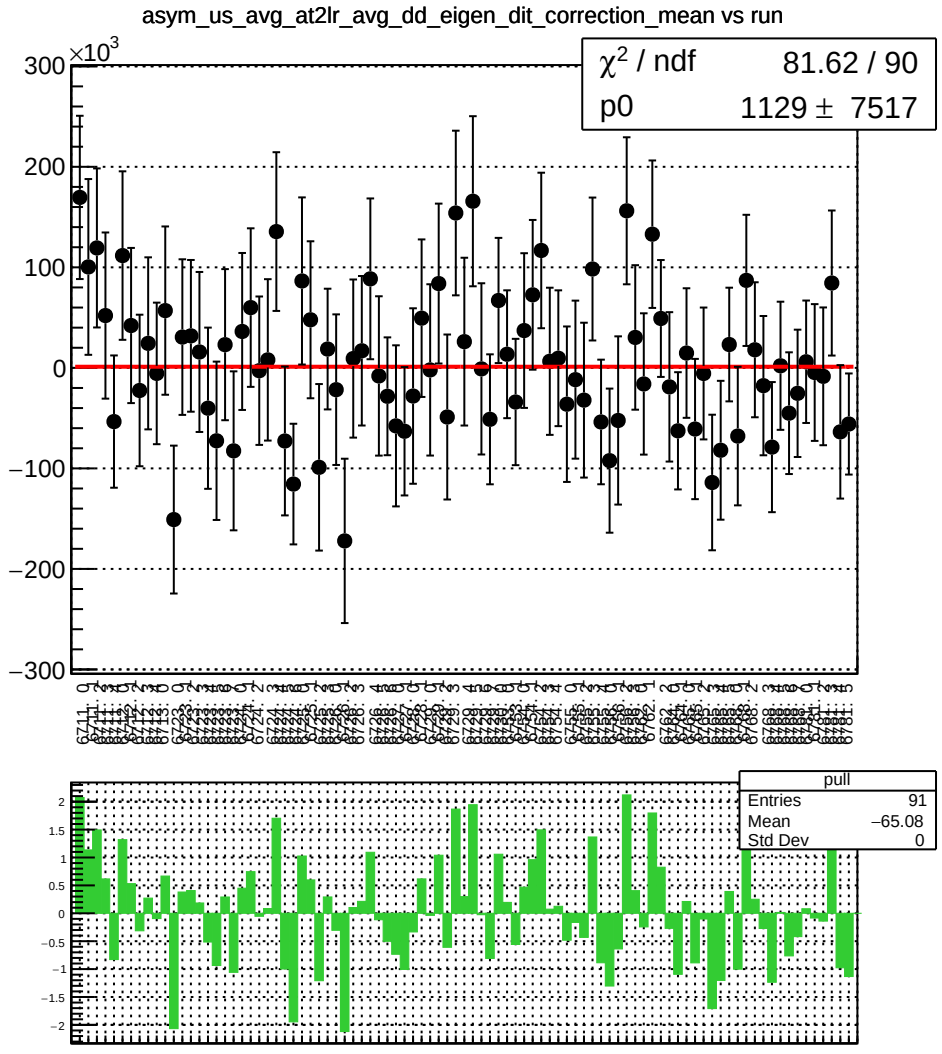

pull1D
Entries 91
Mean 0.03471
Std Dev 0.9464

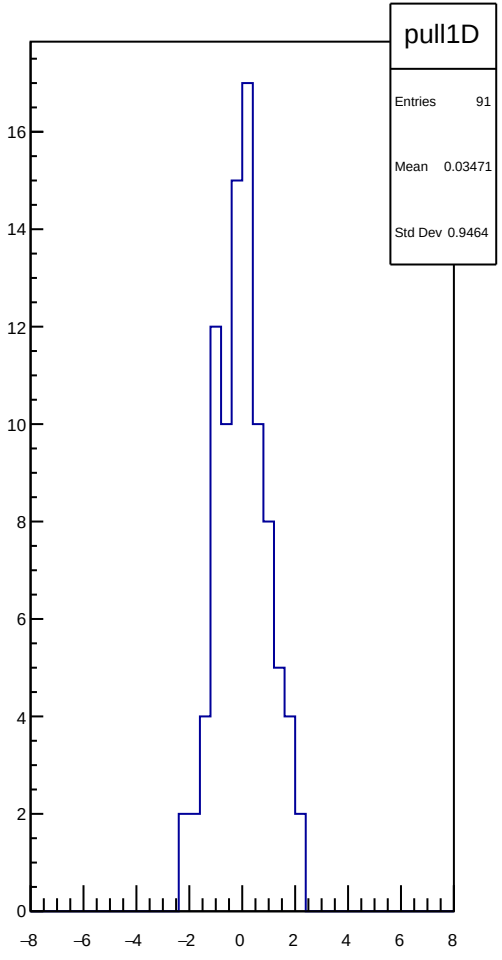

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.391e+04 / 90
p0 7112 ± 5.315
8500
8000
7500
7000
6500
6000
5500

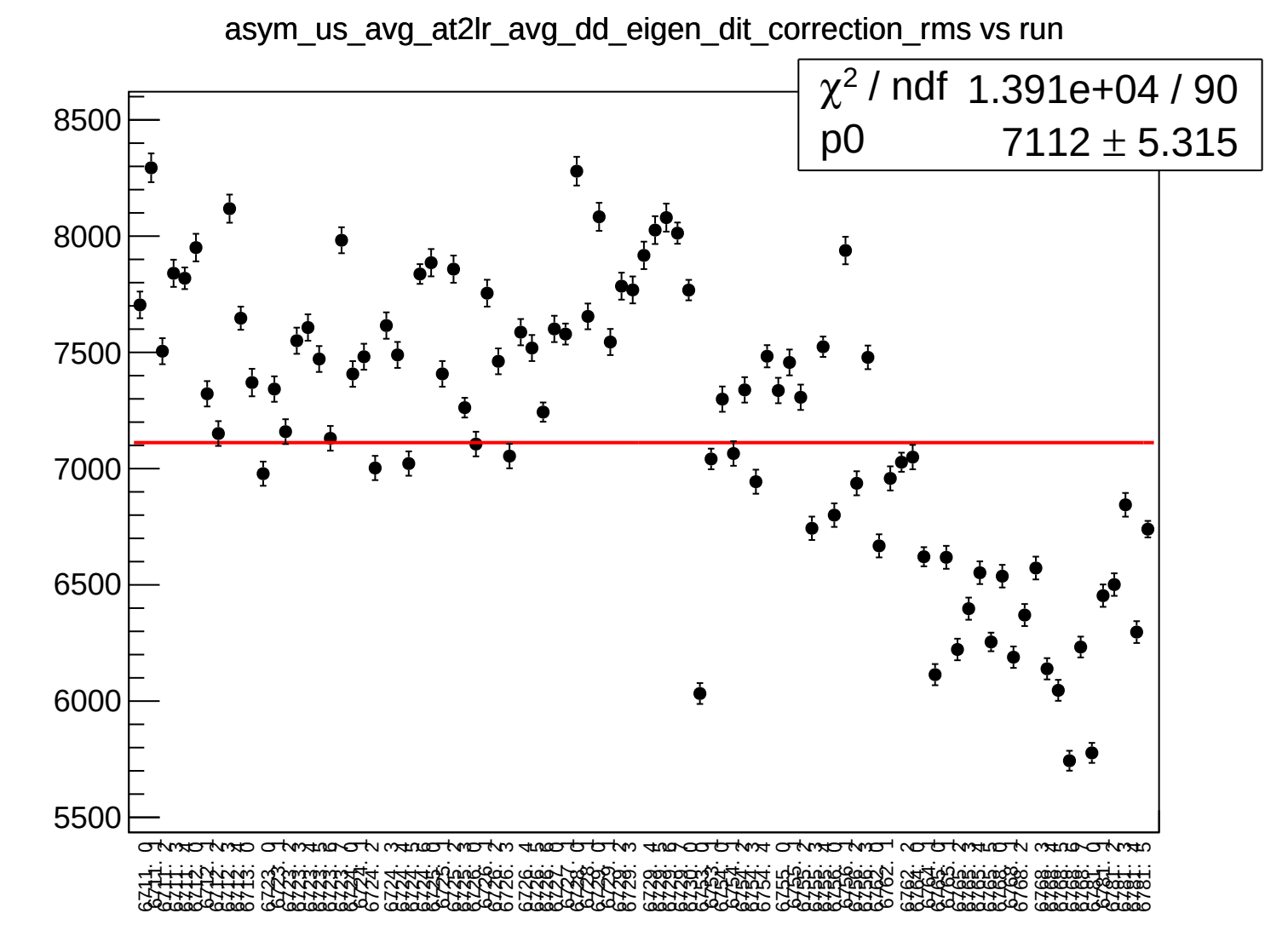

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 93.62 / 90
p0 209.9 ± 1850
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −186.8
Std Dev 0
2
1
0
−1
−2

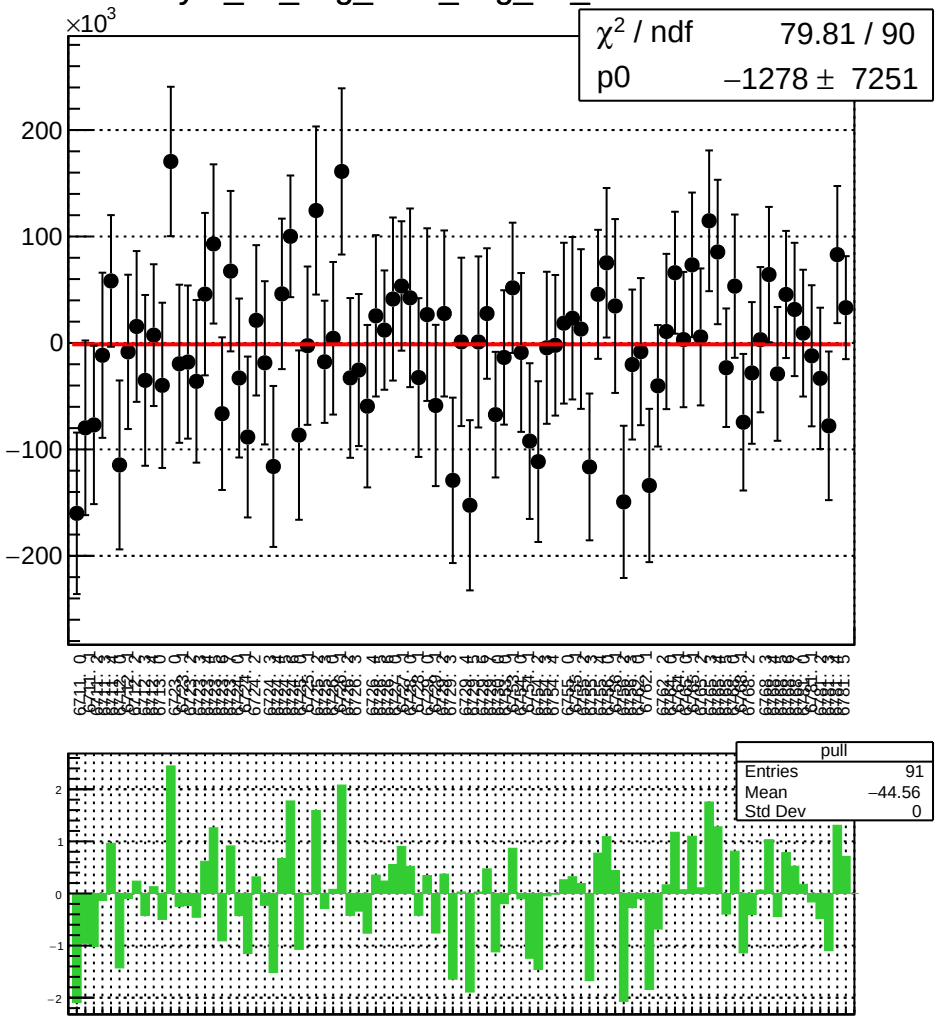

pull1D
Entries 91
Mean 0.02691
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

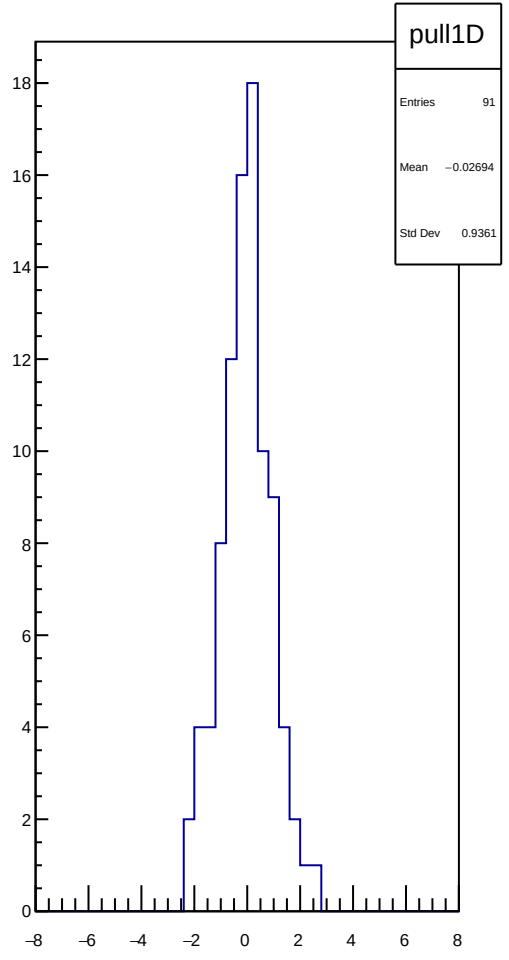

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 4253 / 90
p0 1755 ± 1.308
1900
1850
1800
1750
1700
1650

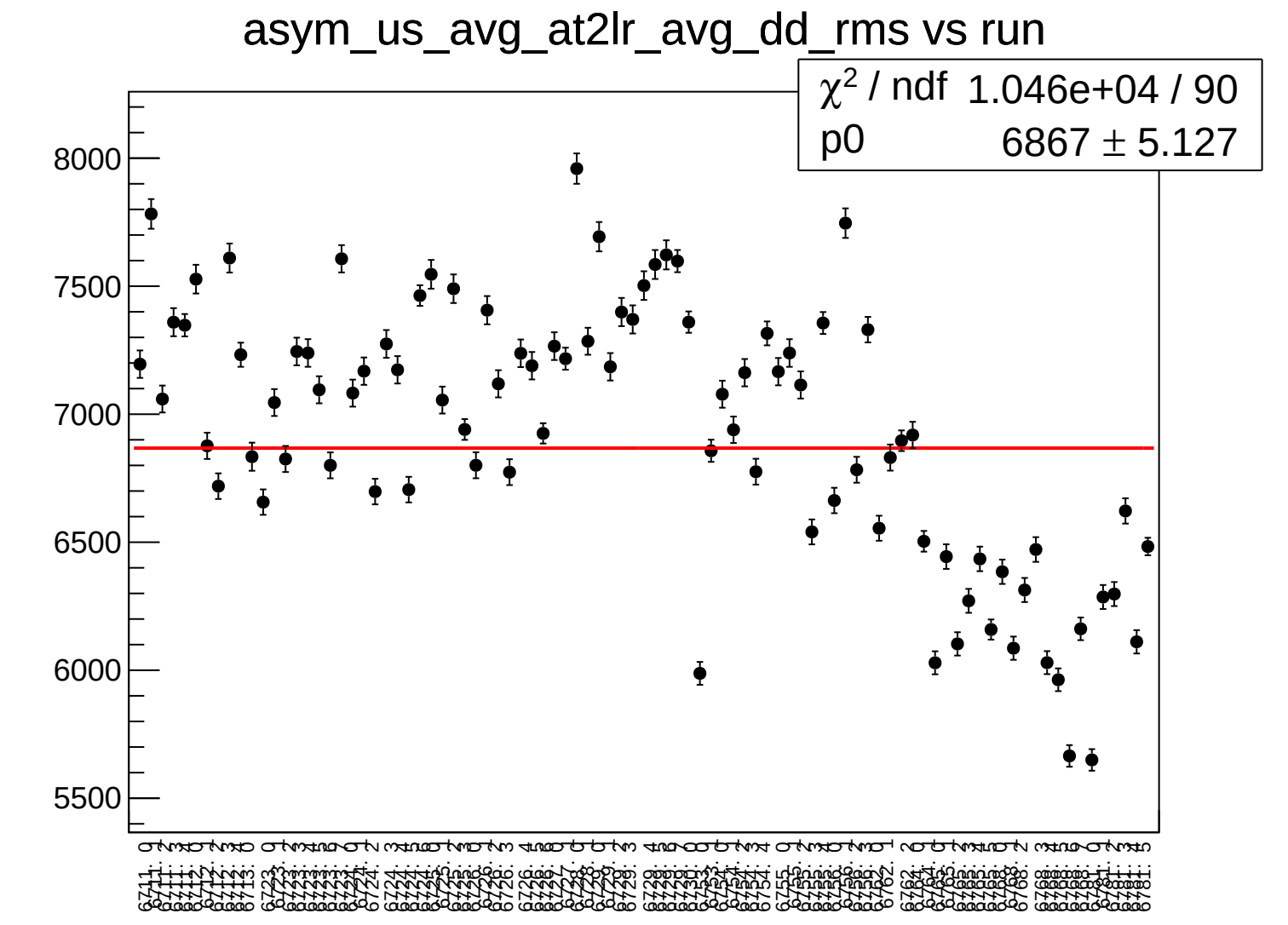

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.62 / 90
p0 1129 ± 7517
pull
Entries 91
Mean −65.08
Std Dev 0

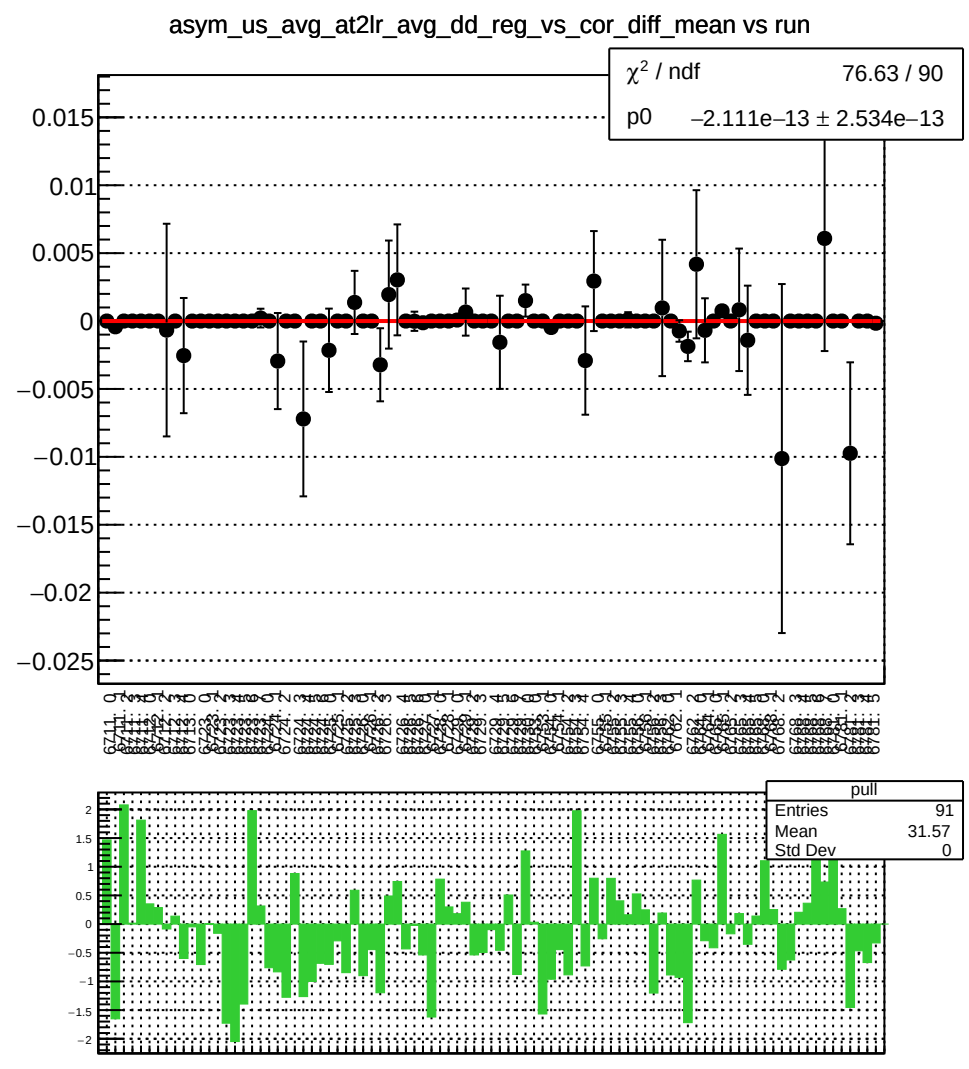

pull1D
Entries 91
Mean 0.03471
Std Dev 0.9464

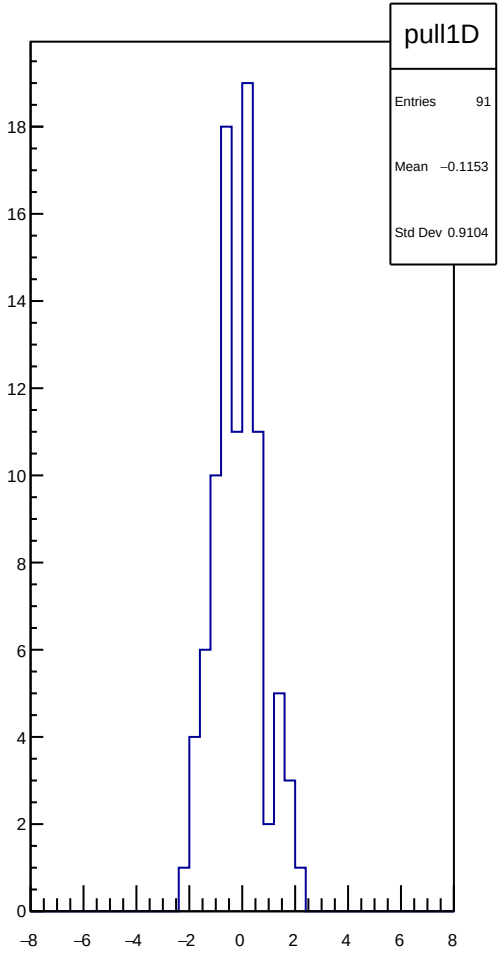

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.391e+04 / 90
p0 7112 ± 5.315
8500
8000
7500
7000
6500
6000
5500

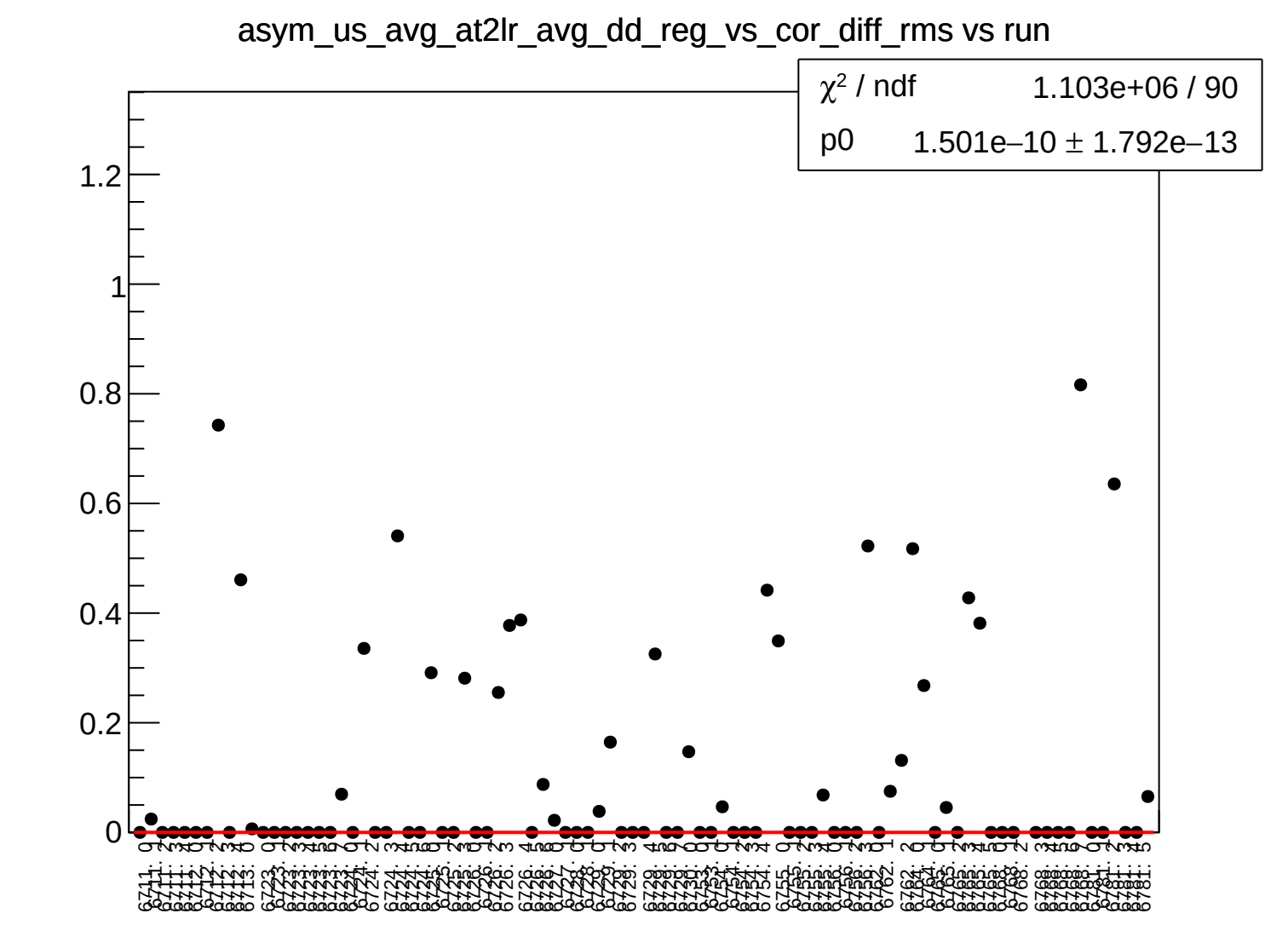

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 79.81 / 90
p0 −1278 ± 7251
200
100
0
−100
−200
pull
Entries 91
Mean −44.56
Std Dev 0
2
1
0
−1
−2

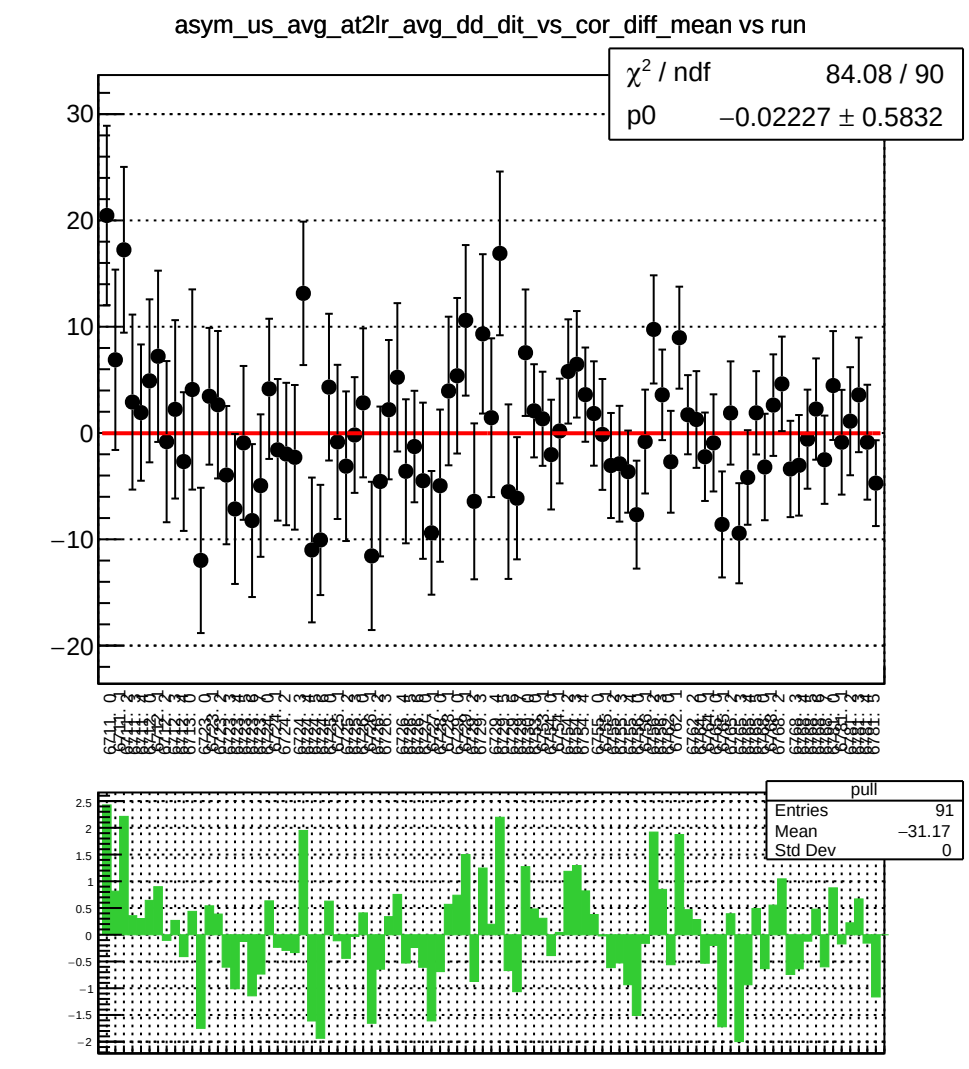

pull1D
Entries 91
Mean −0.02694
Std Dev 0.9361
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

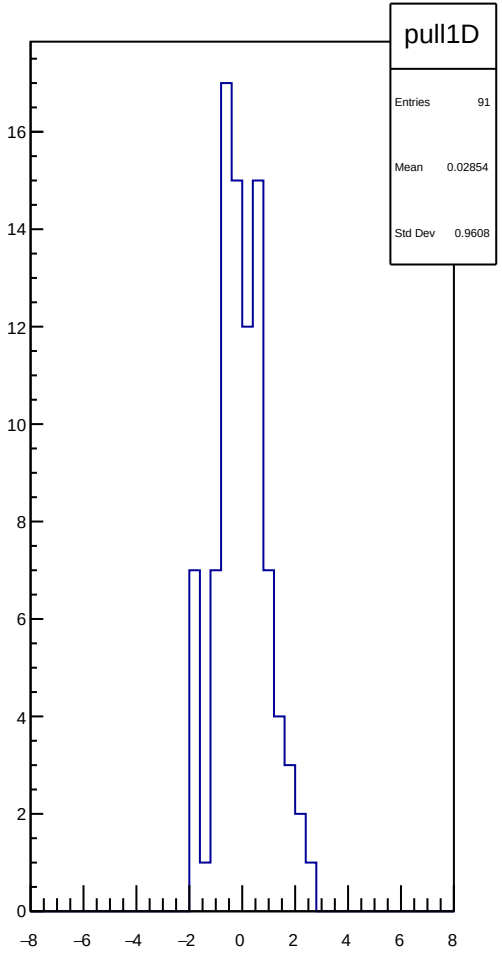

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.046e+04 / 90
p0 6867 ± 5.127
8000
7500
7000
6500
6000
5500

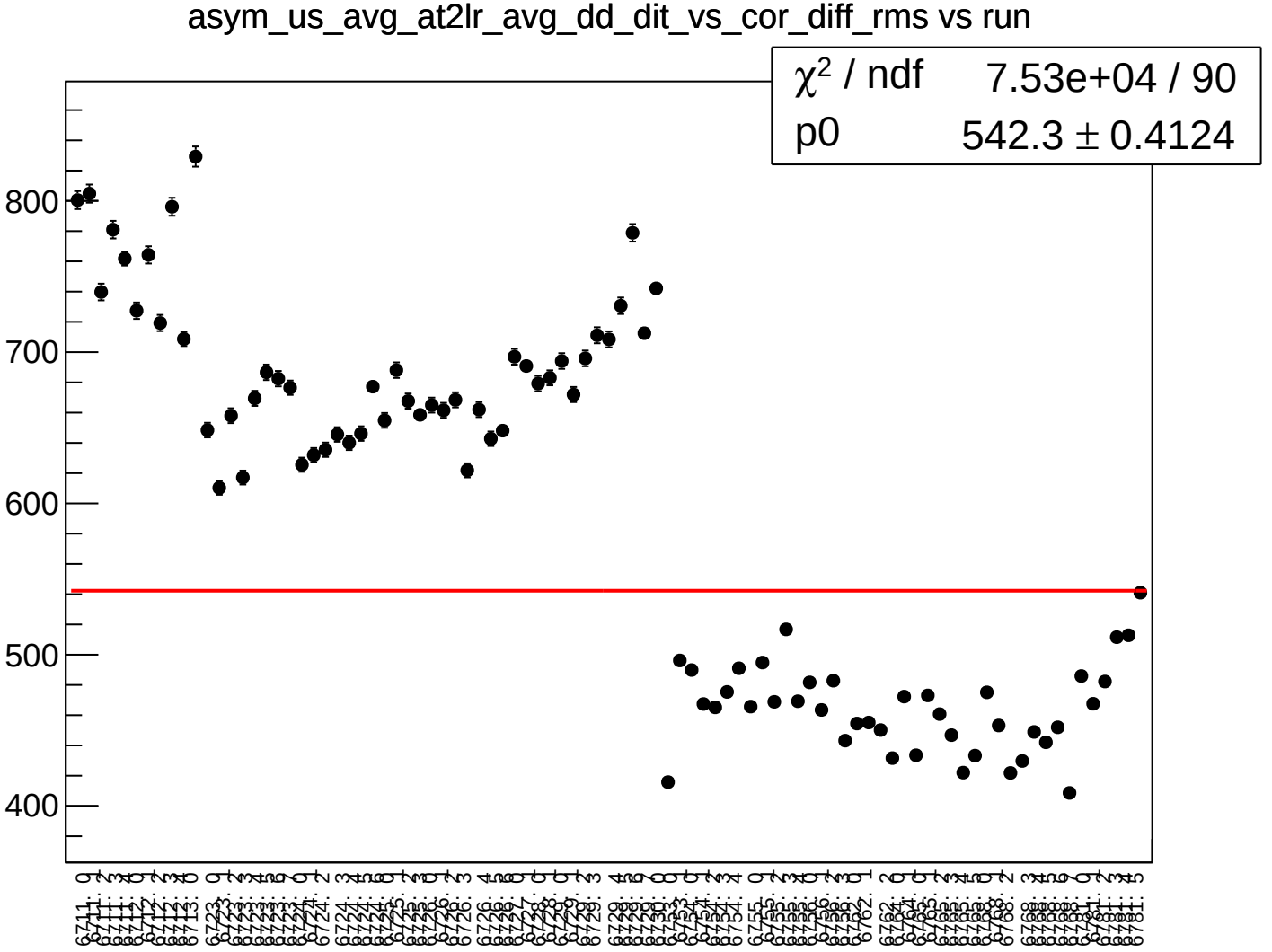

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.63 / 90
p0 −2.111e−13 ± 2.534e−13
pull
Entries 91
Mean 31.57
Std Dev 0

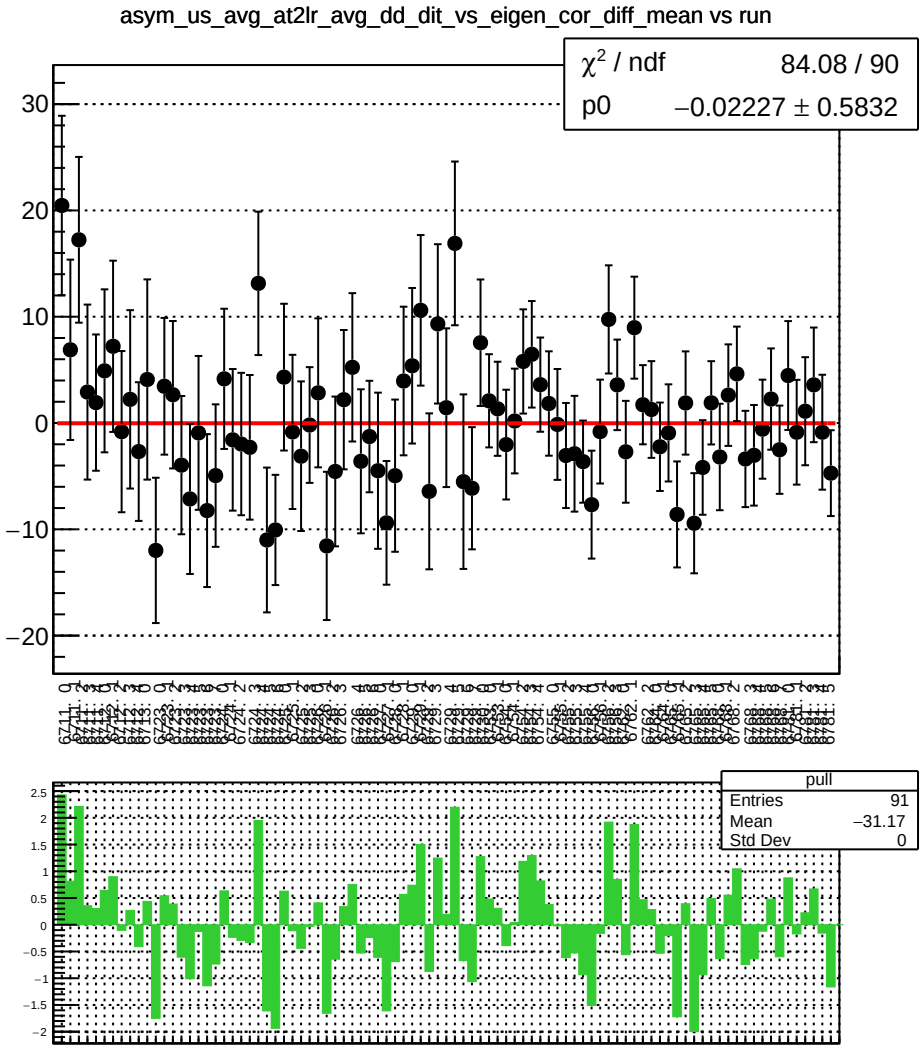

pull1D
Entries 91
Mean −0.1153
Std Dev 0.9104

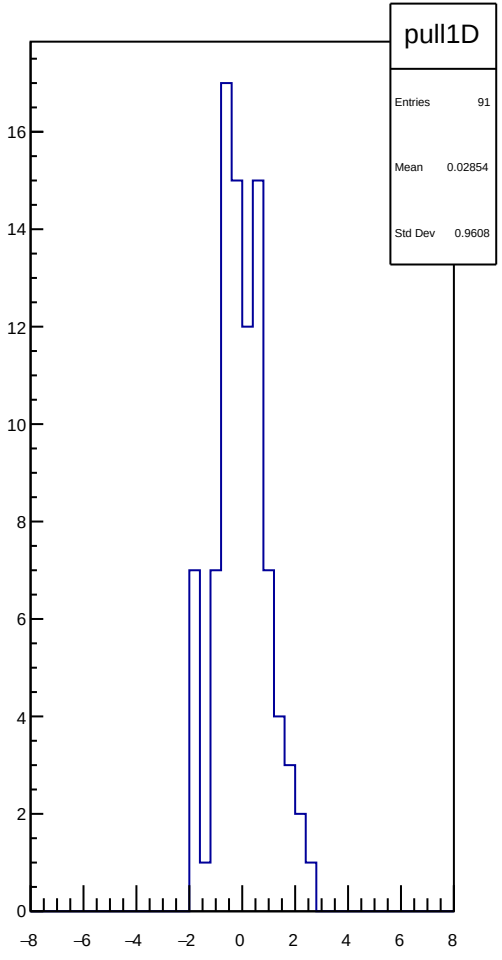

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.103e+06 / 90
p0 1.501e−10 ± 1.792e−13
1.2
1
0.8
0.6
0.4
0.2
0

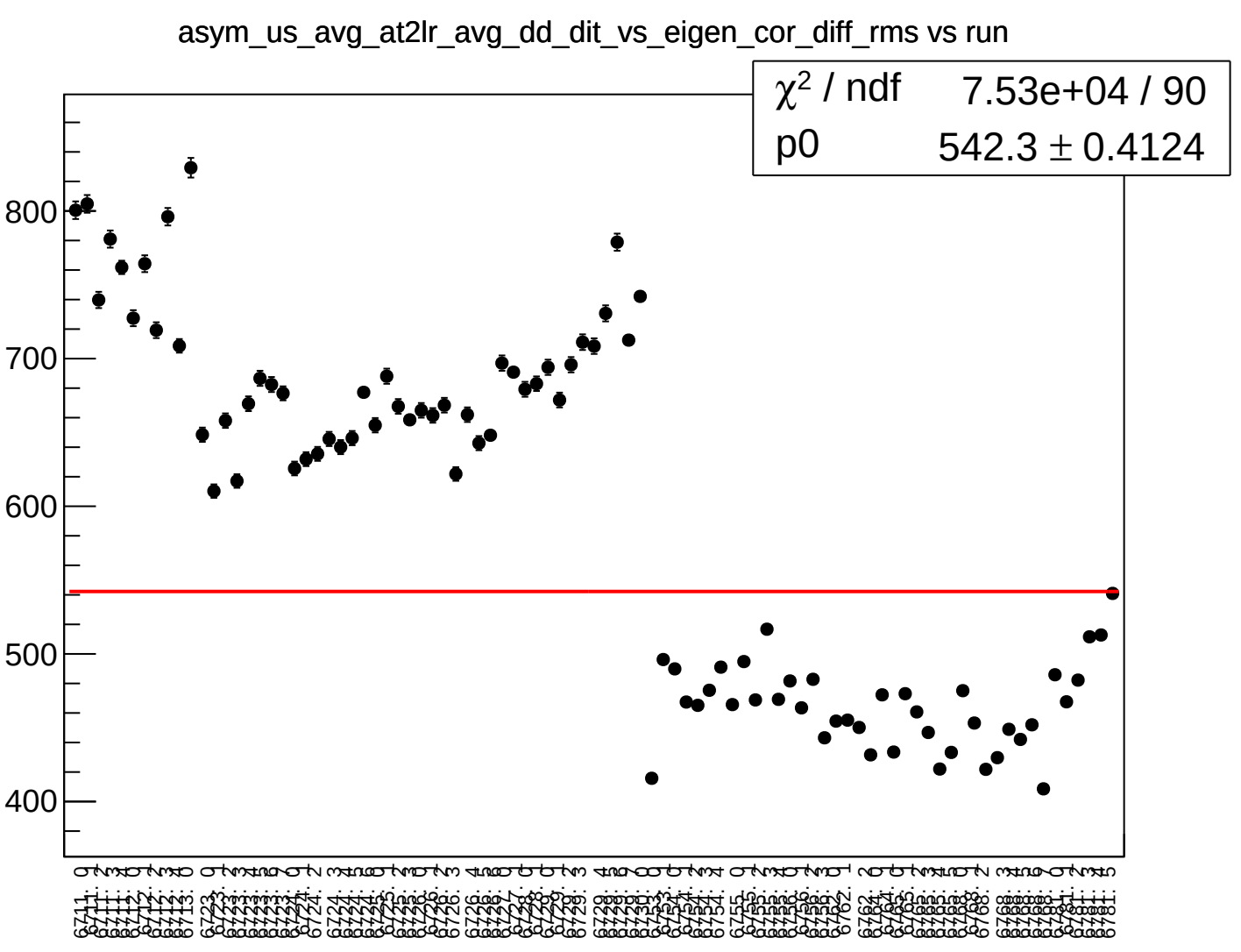

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.08 / 90
p0 −0.02227 ± 0.5832
pull
Entries 91
Mean −31.17
Std Dev 0

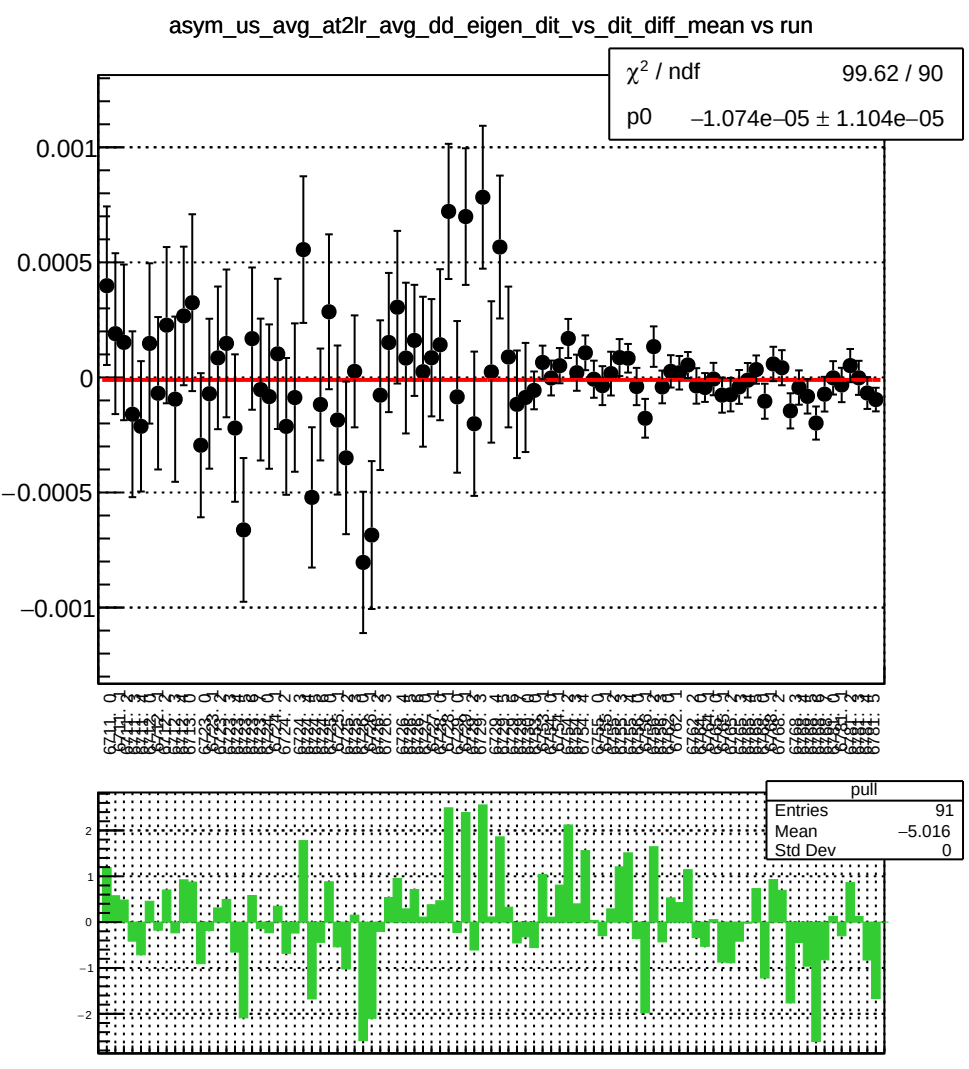

pull1D
Entries 91
Mean 0.02854
Std Dev 0.9608

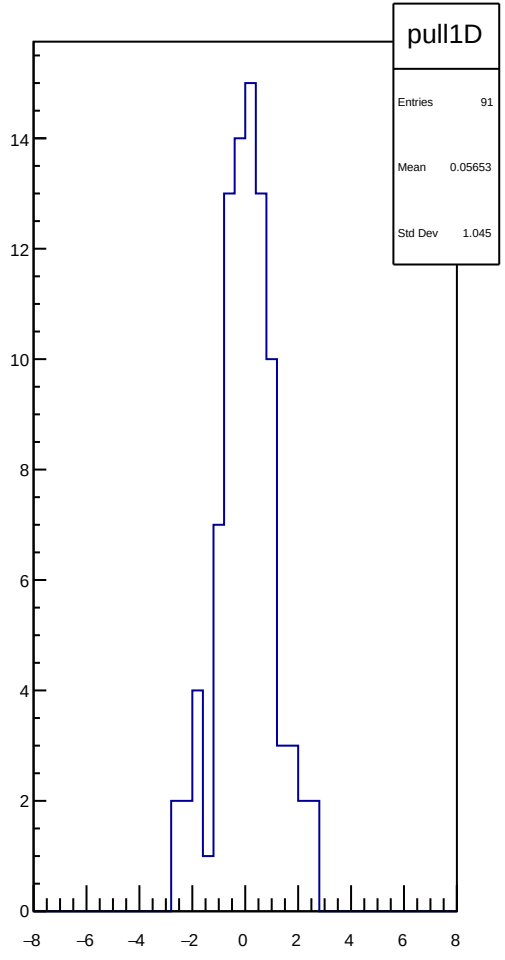

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.53e+04 / 90
p0 542.3 ± 0.4124
800
700
600
500
400

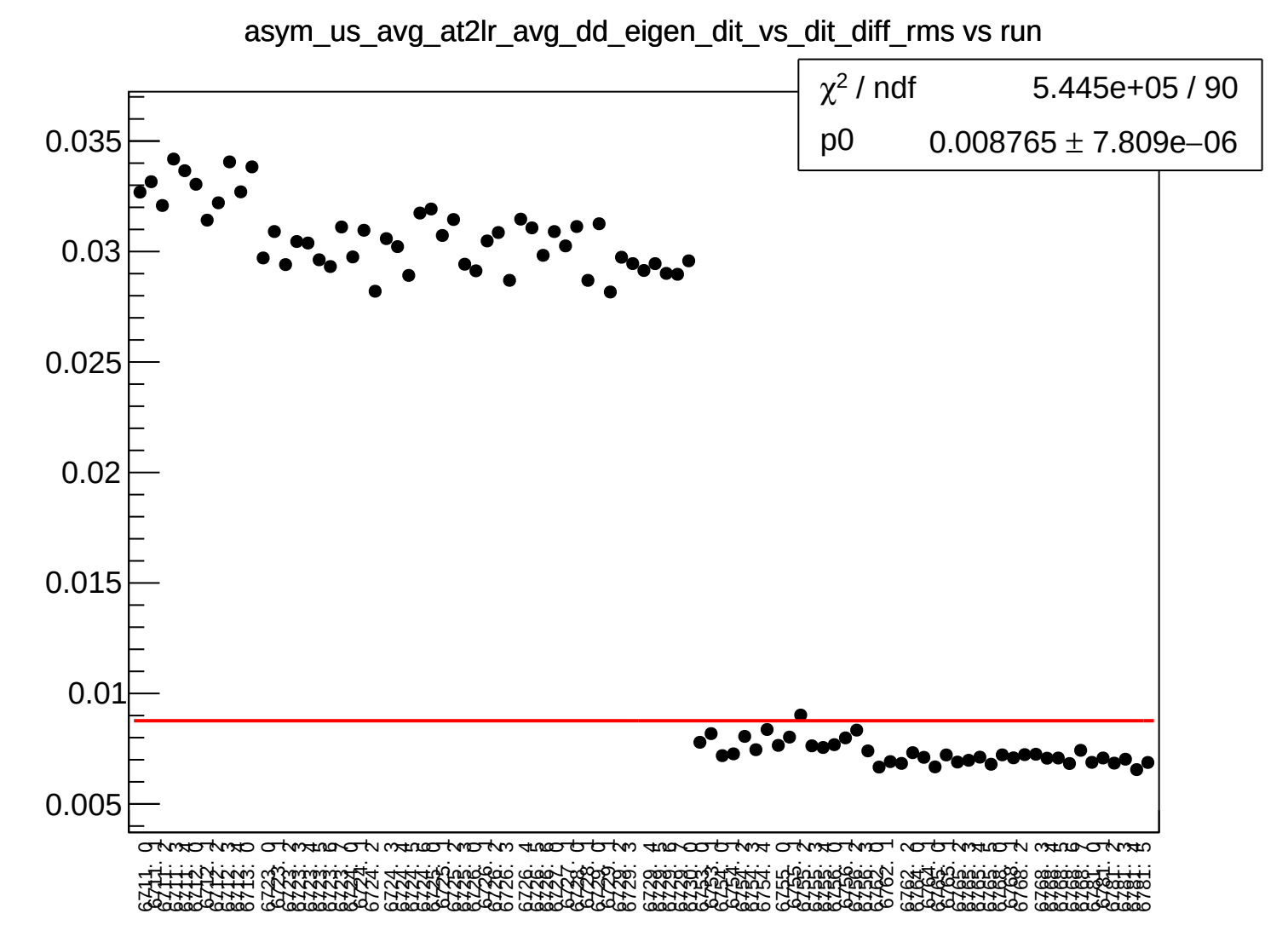

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.08 / 90
p0 −0.02227 ± 0.5832
pull
Entries 91
Mean −31.17
Std Dev 0

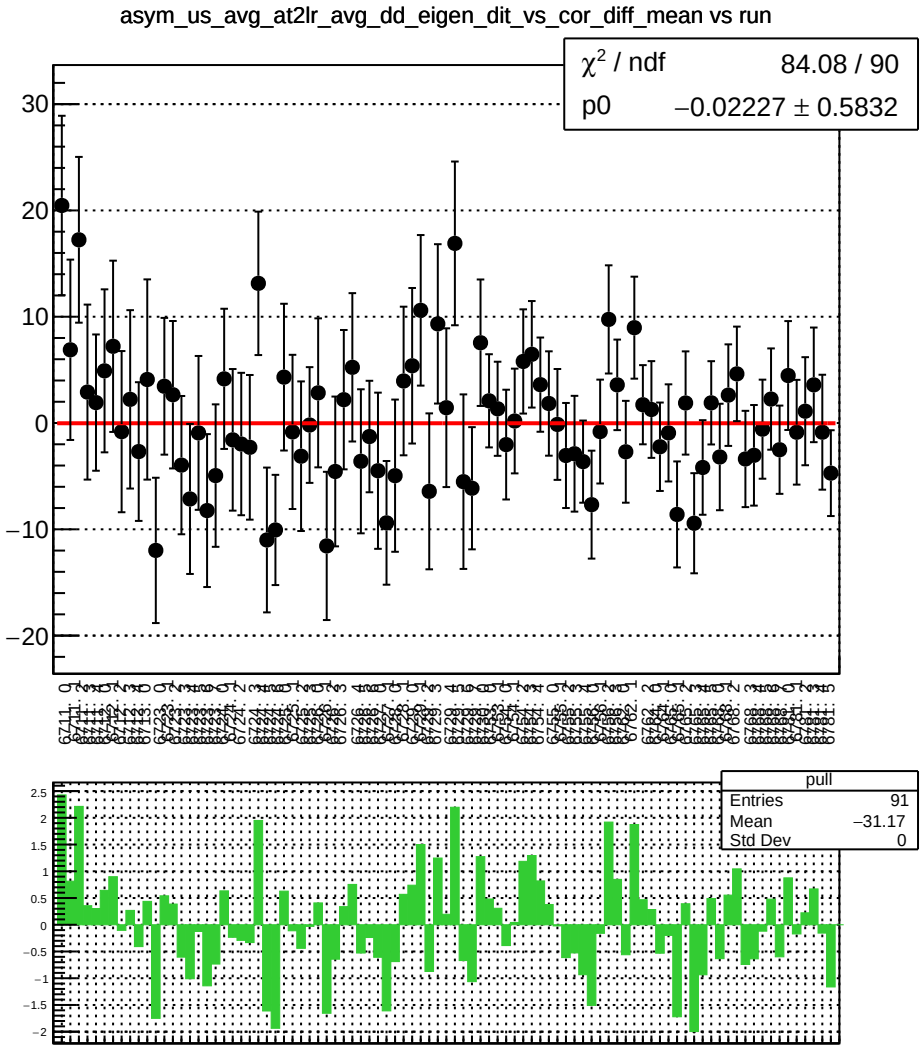

pull1D
Entries 91
Mean 0.02854
Std Dev 0.9608

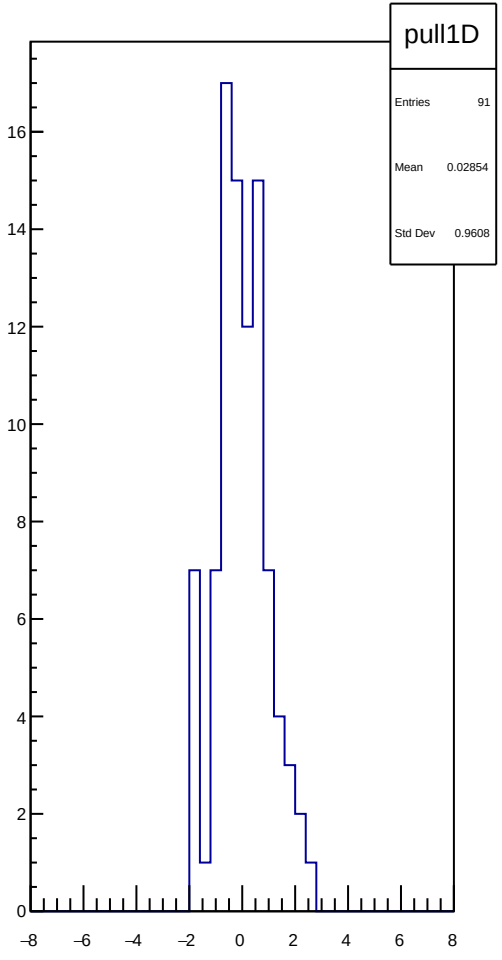

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.53e+04 / 90
p0 542.3 ± 0.4124
800
700
600
500
400

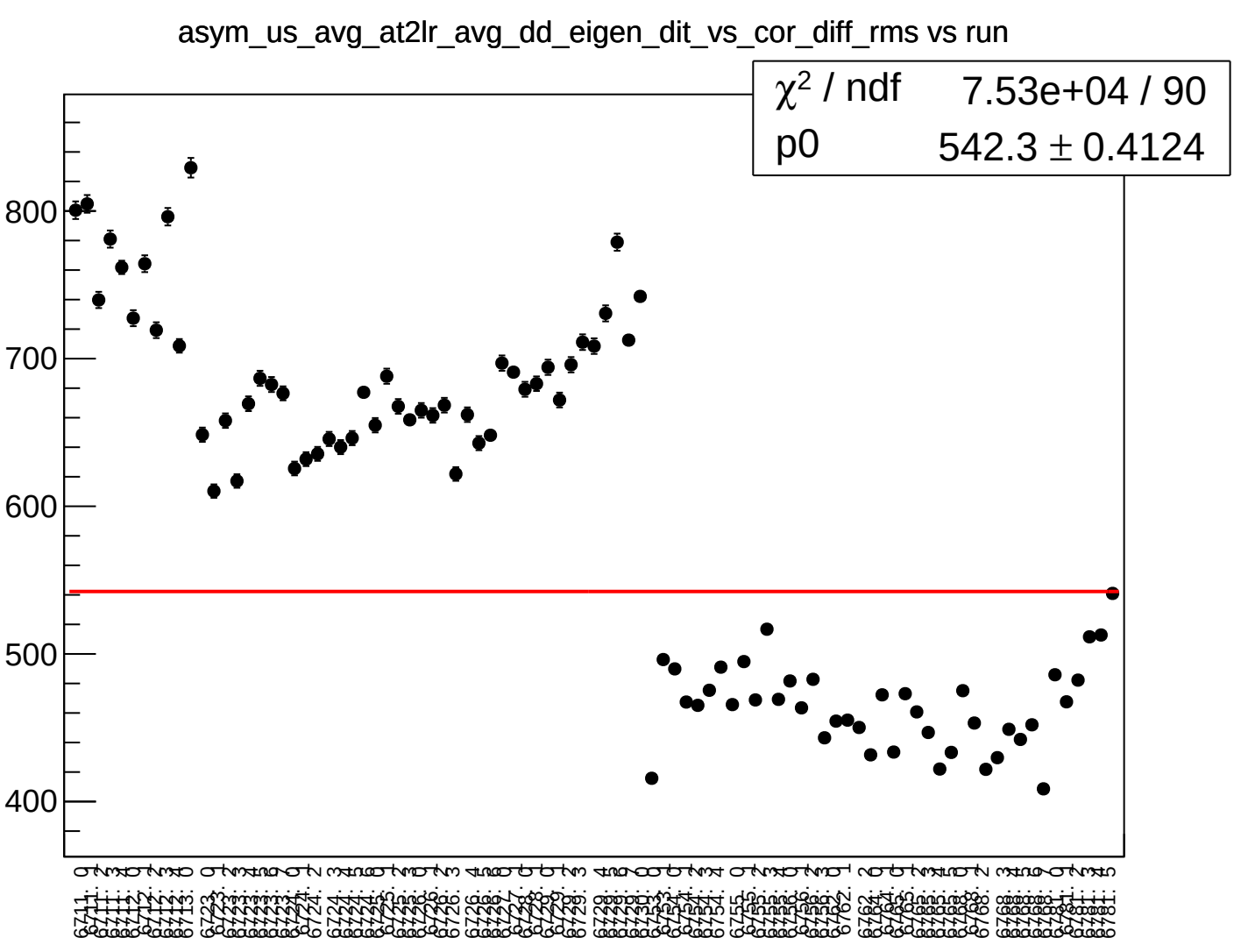

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 99.62 / 90
p0 −1.074e−05 ± 1.104e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean −5.016
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.05653
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

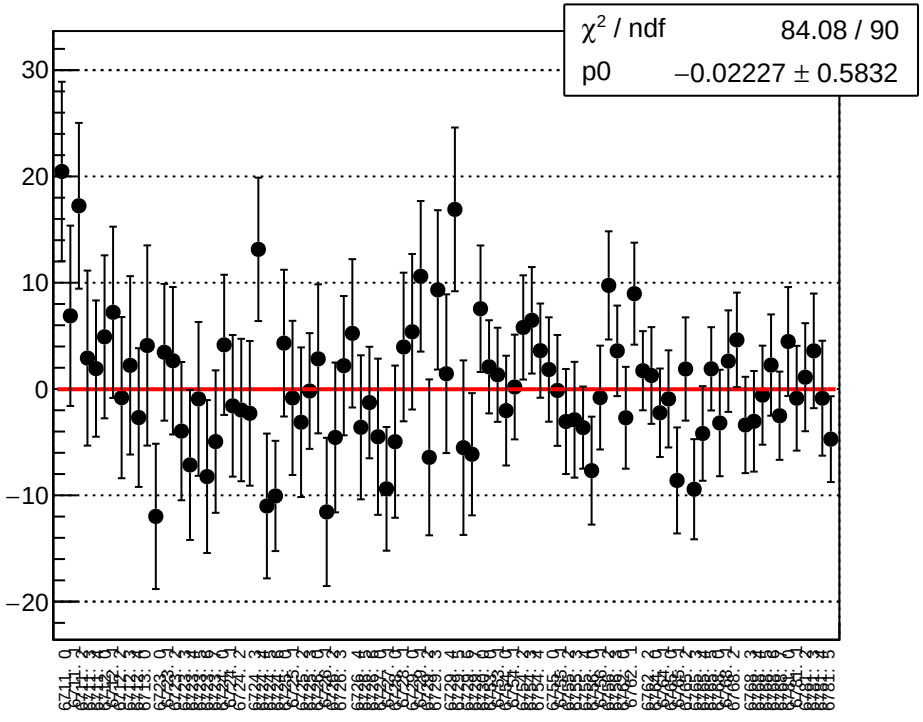

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.445e+05 / 90
p0 0.008765 ± 7.809e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

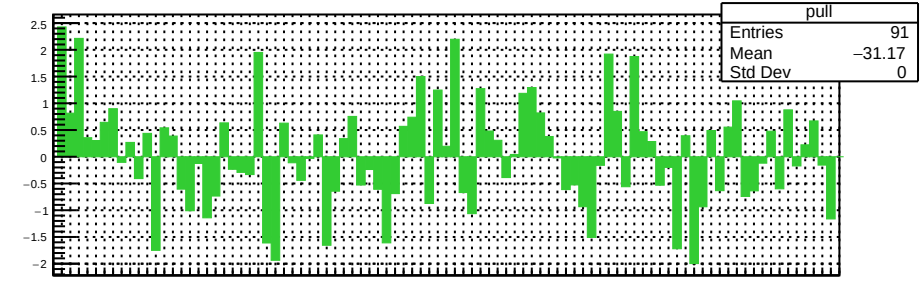

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.08 / 90
p0 −0.02227 ± 0.5832
pull
Entries 91
Mean −31.17
Std Dev 0

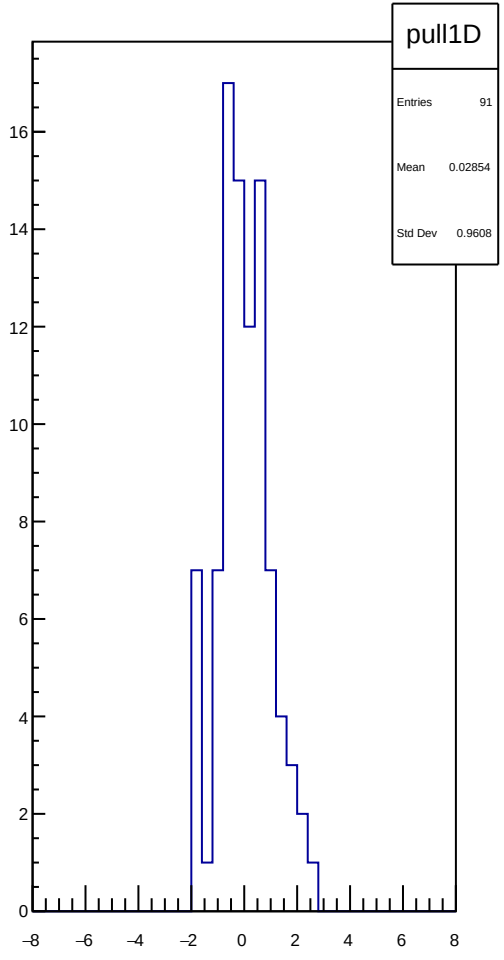

pull1D
Entries 91
Mean 0.02854
Std Dev 0.9608

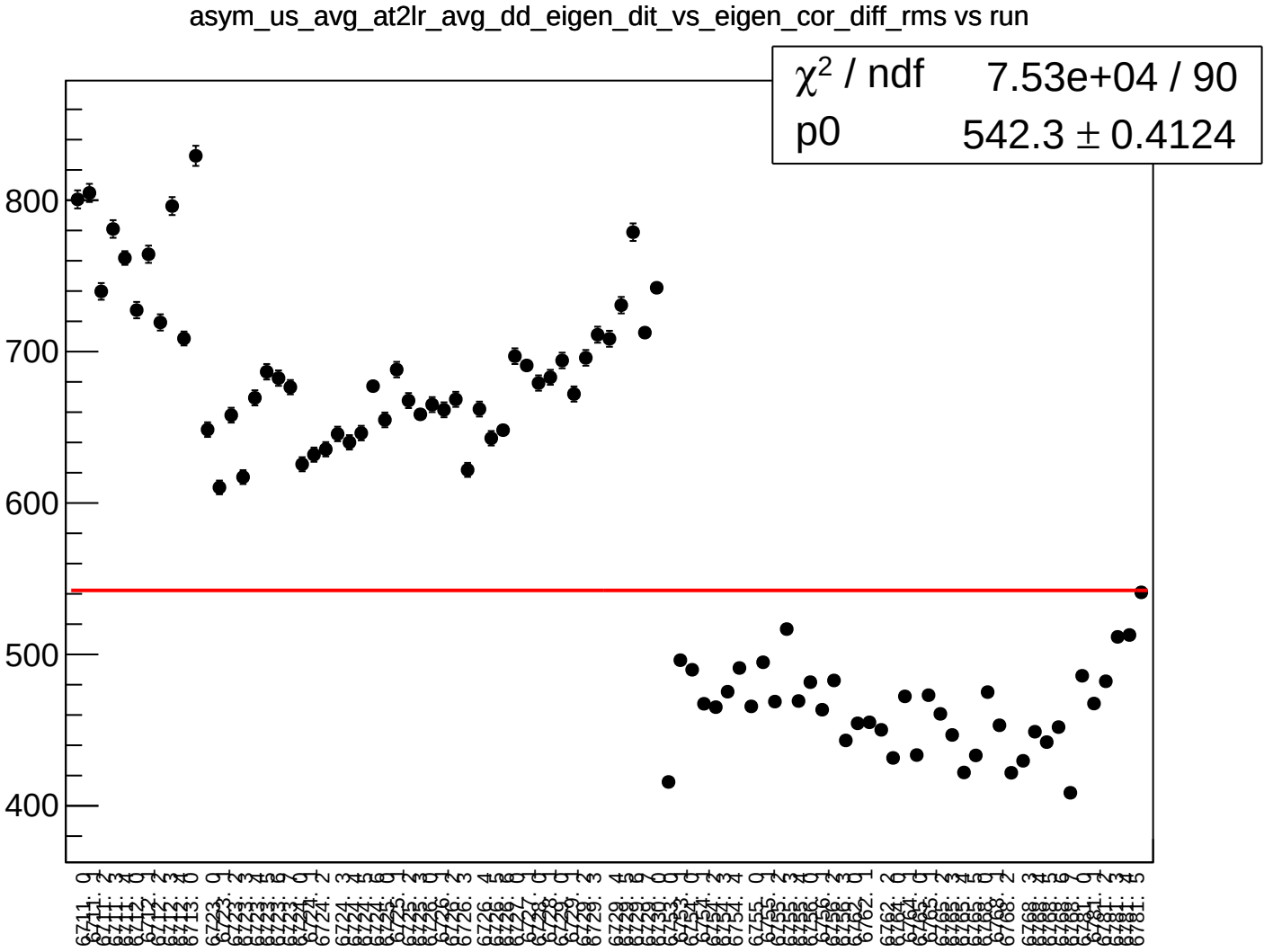

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.53e+04 / 90
p0 542.3 ± 0.4124
800
700
600
500
400

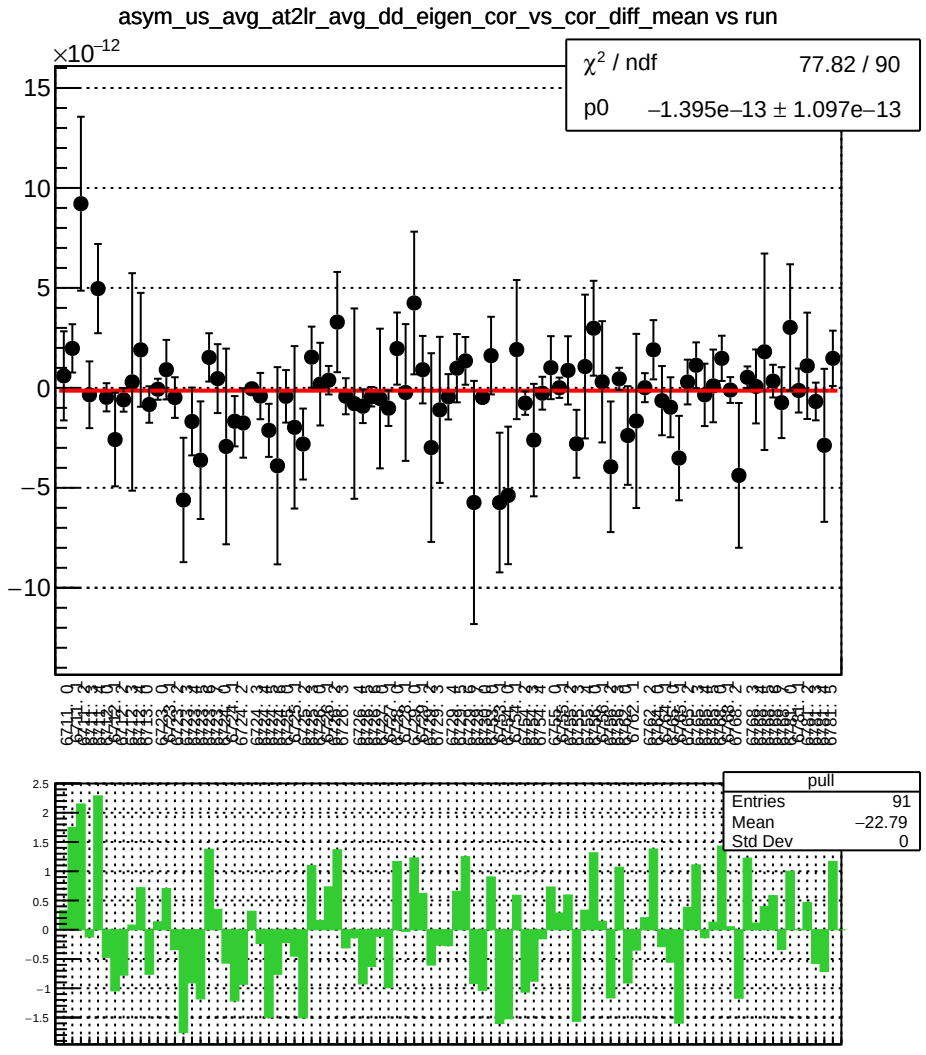
asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

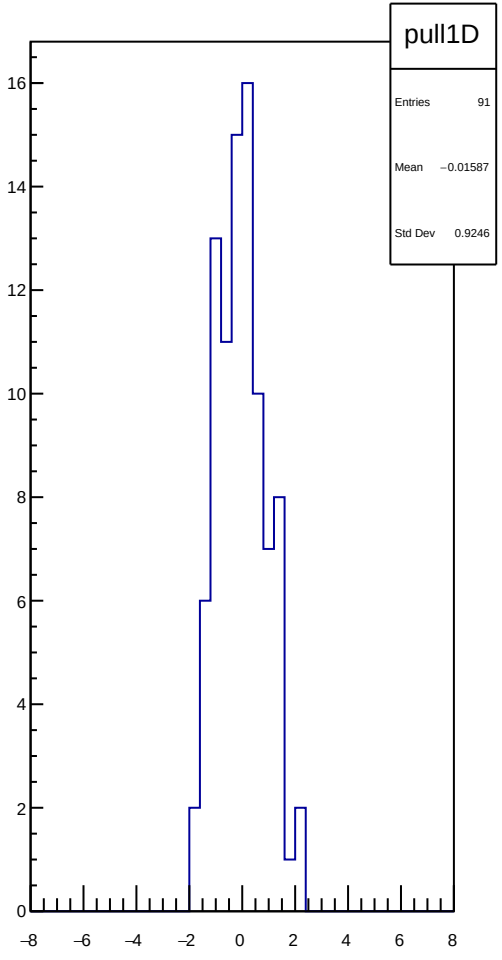


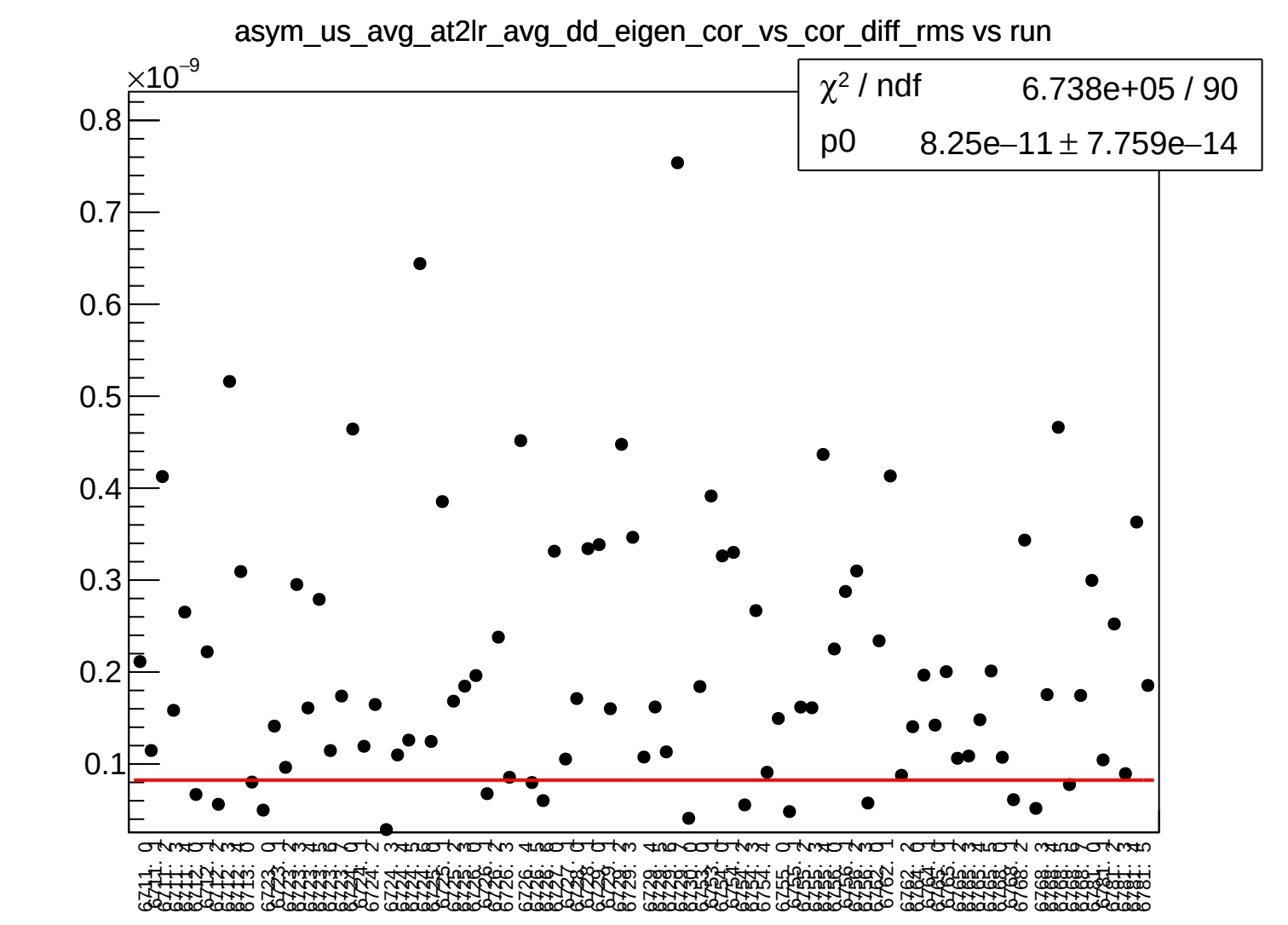


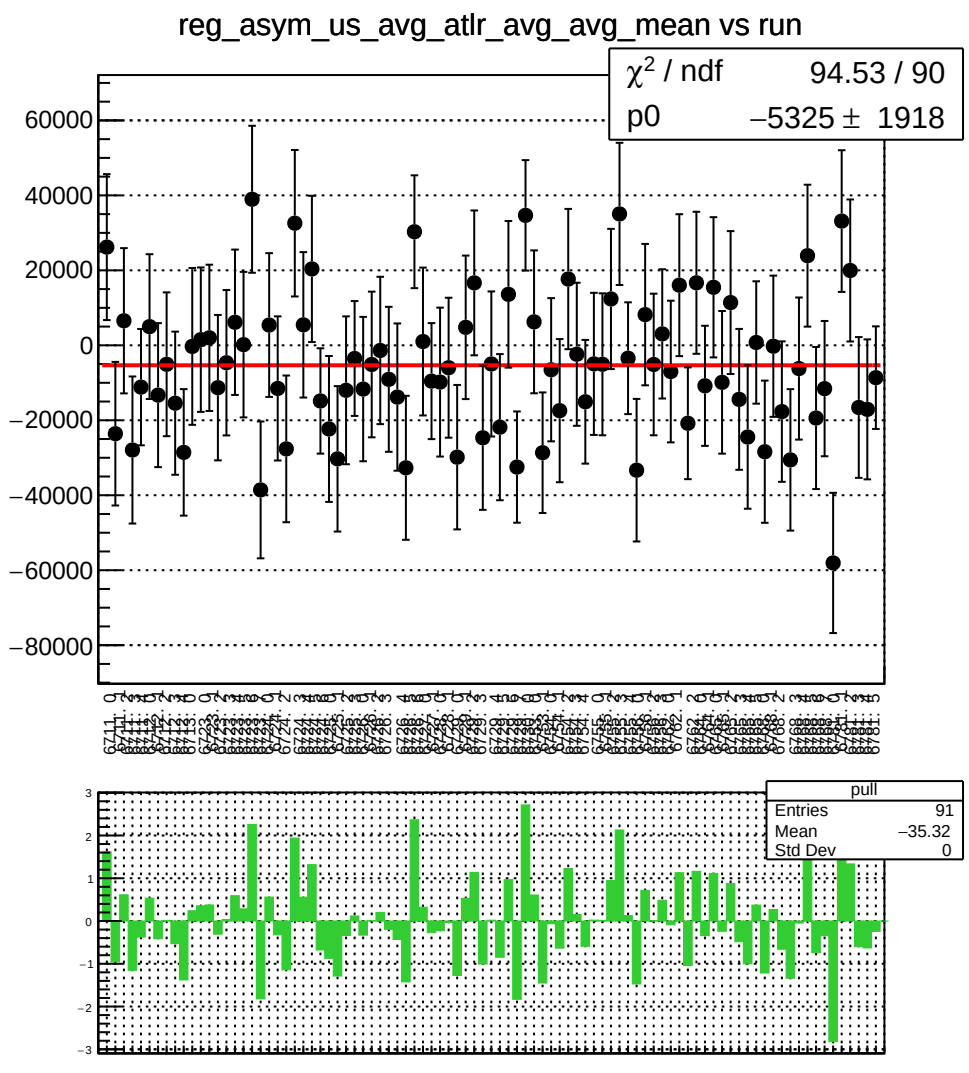


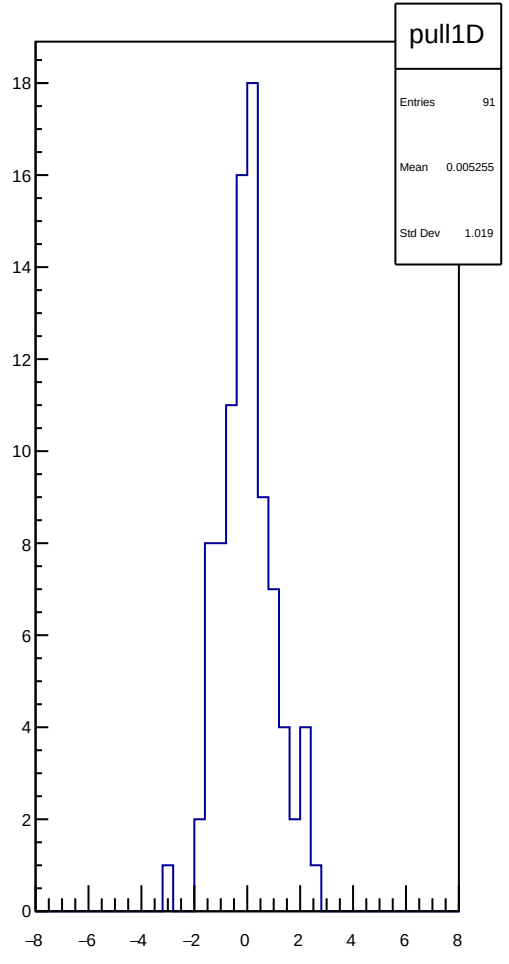

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.53e+04 / 90
p0 542.3 ± 0.4124
800
700
600
500
400


asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.82 / 90
p0 −1.395e−13 ± 1.097e−13
pull
Entries 91
Mean −22.79
Std Dev 0


pull1D
Entries 91
Mean −0.01587
Std Dev 0.9246


asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.738e+05 / 90
p0 8.25e−11 ± 7.759e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1


reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 94.53 / 90
p0 −5325 ± 1918
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −35.32
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean 0.005255
Std Dev 1.019
18
16
14
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6
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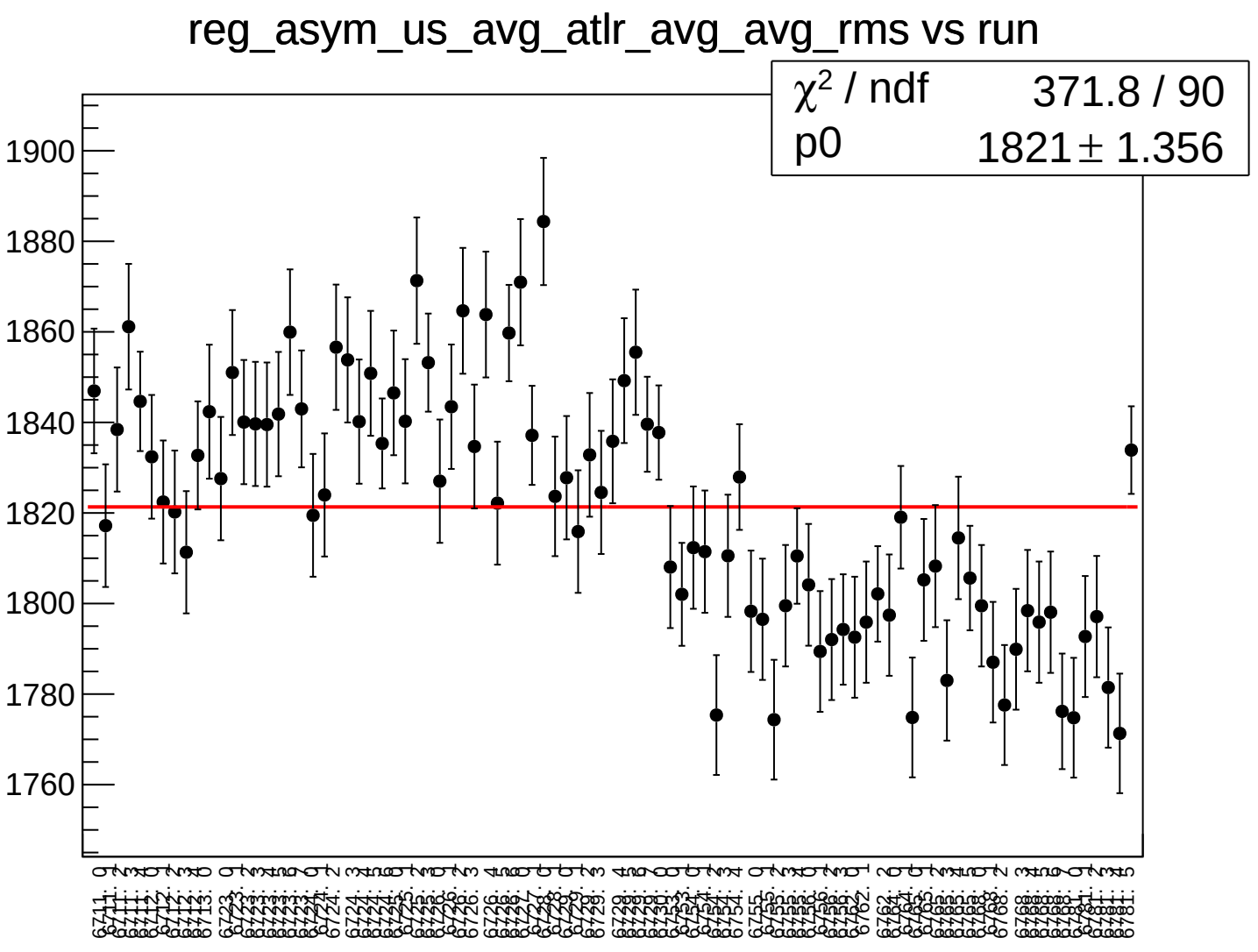
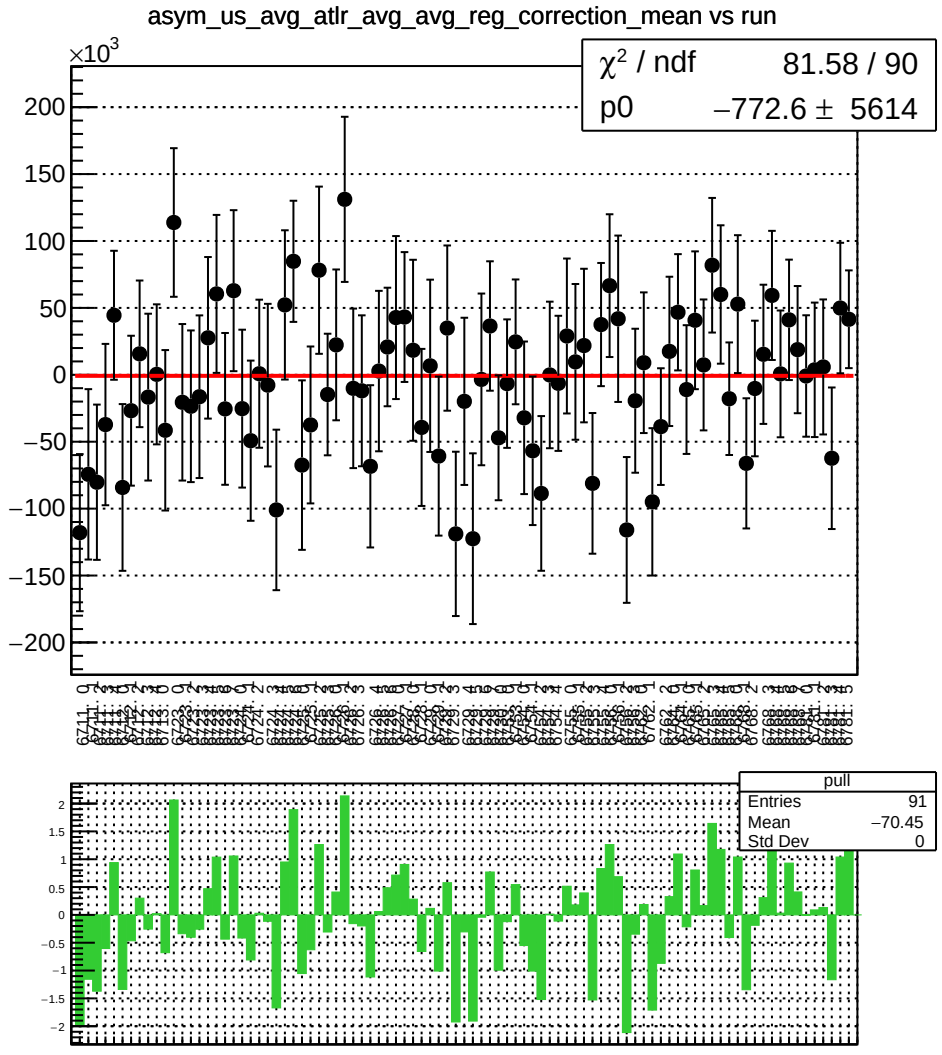
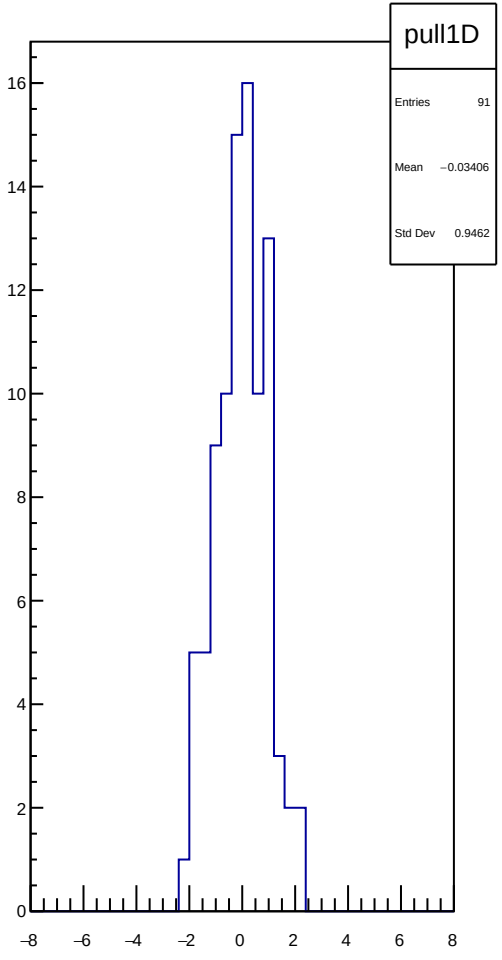
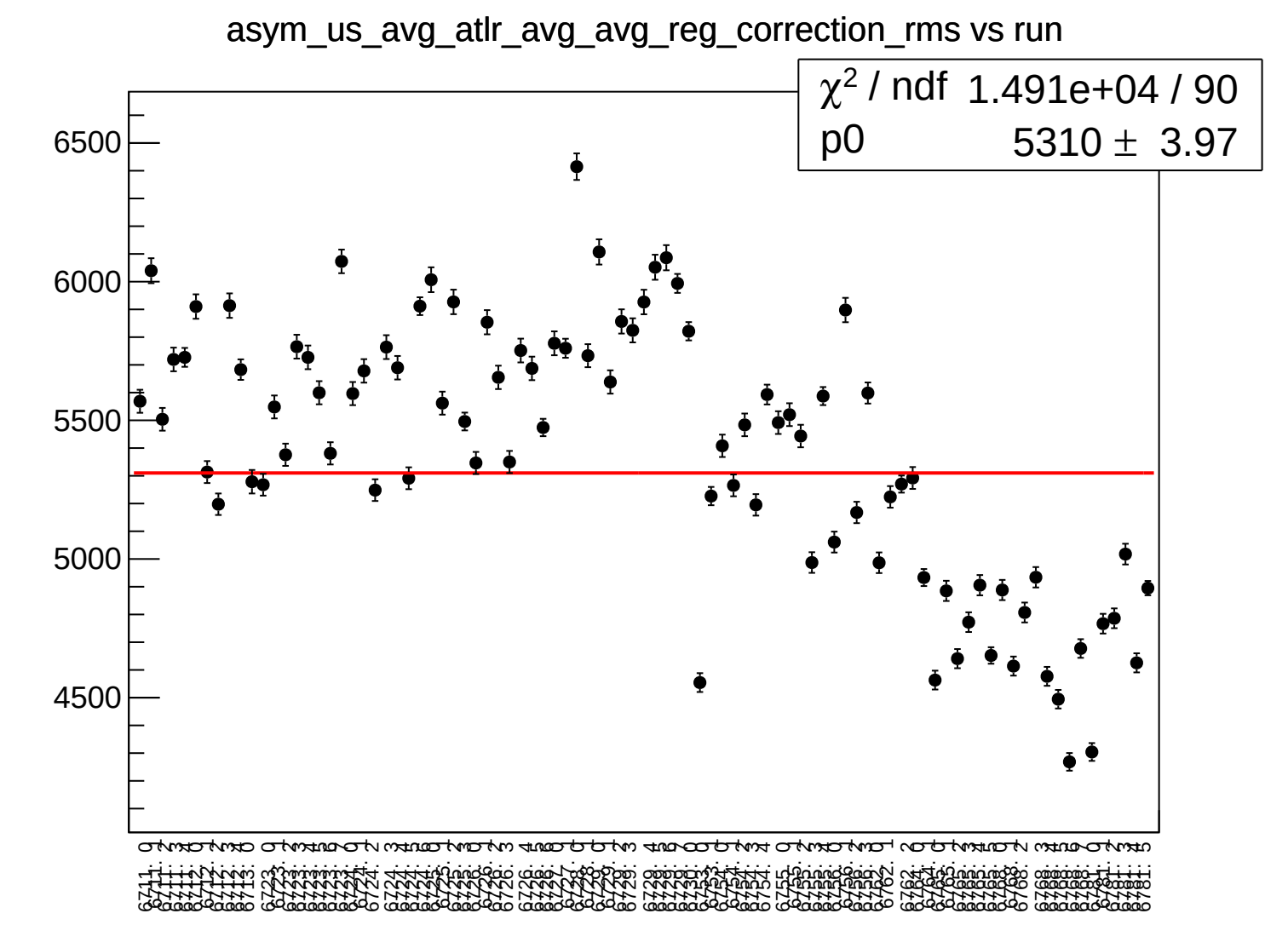
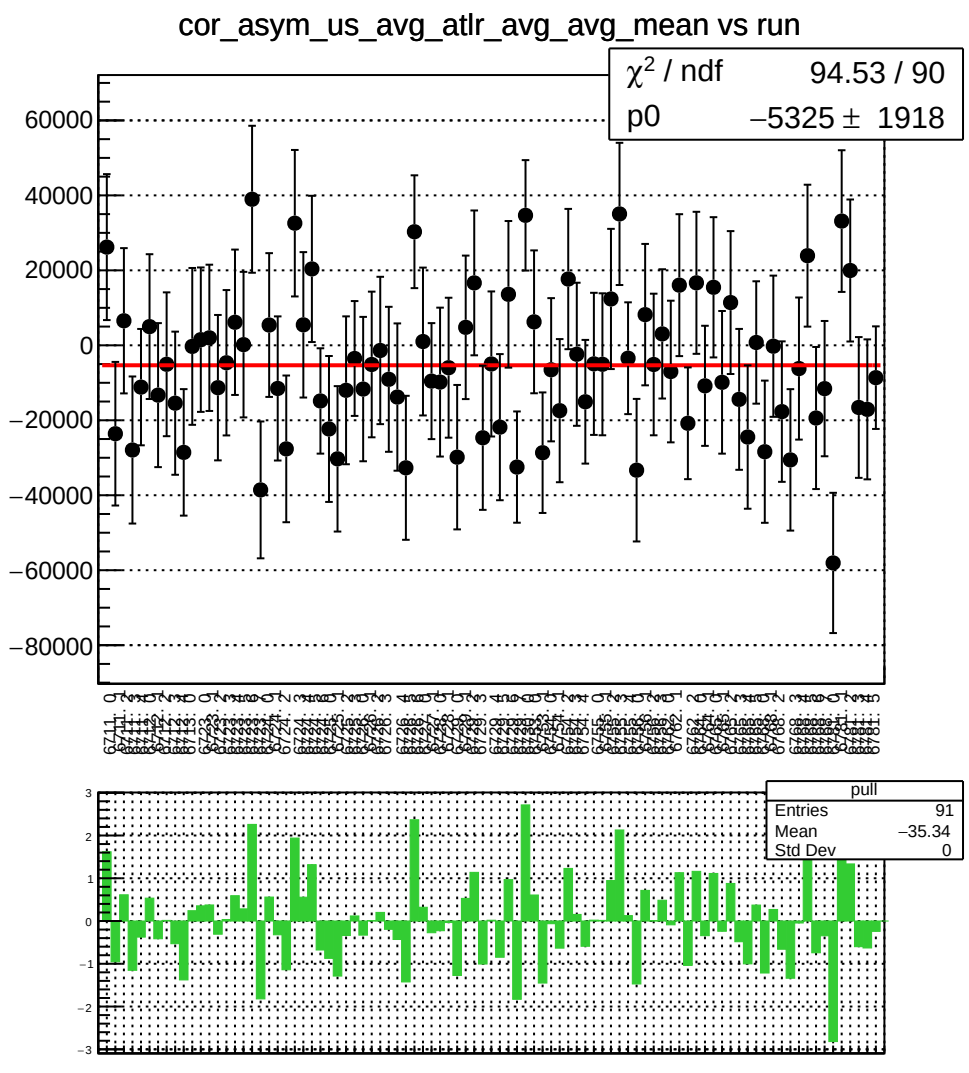
2
0
−8
−6
−4
−2
0
2
4
6
8

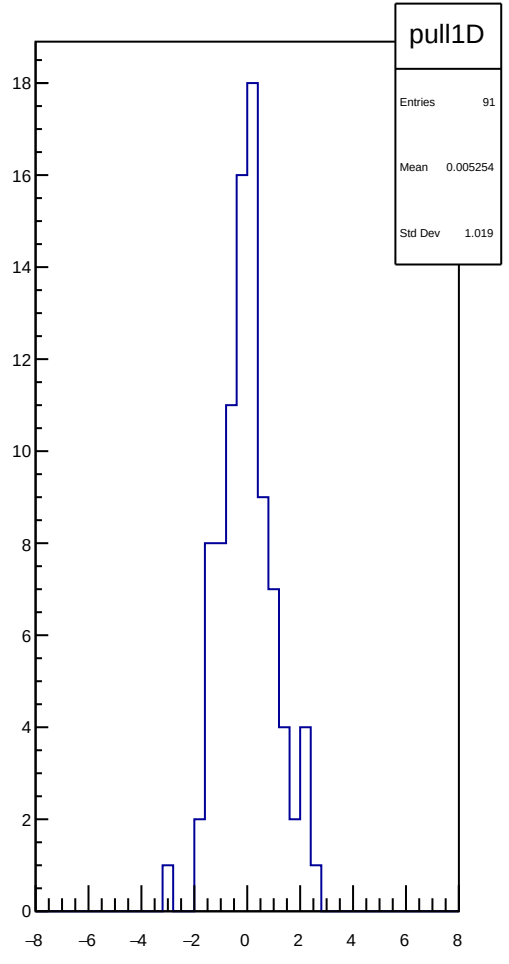

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 371.8 / 90
p0 1821 ± 1.356
1900
1880
1860
1840
1820
1800
1780
1760


asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 81.58 / 90
p0 −772.6 ± 5614
pull
Entries 91
Mean −70.45
Std Dev 0


pull1D
Entries 91
Mean −0.03406
Std Dev 0.9462


asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.491e+04 / 90
p0 5310 ± 3.97
6500
6000
5500
5000
4500


cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 94.53 / 90
p0 −5325 ± 1918
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −35.34
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean 0.005254
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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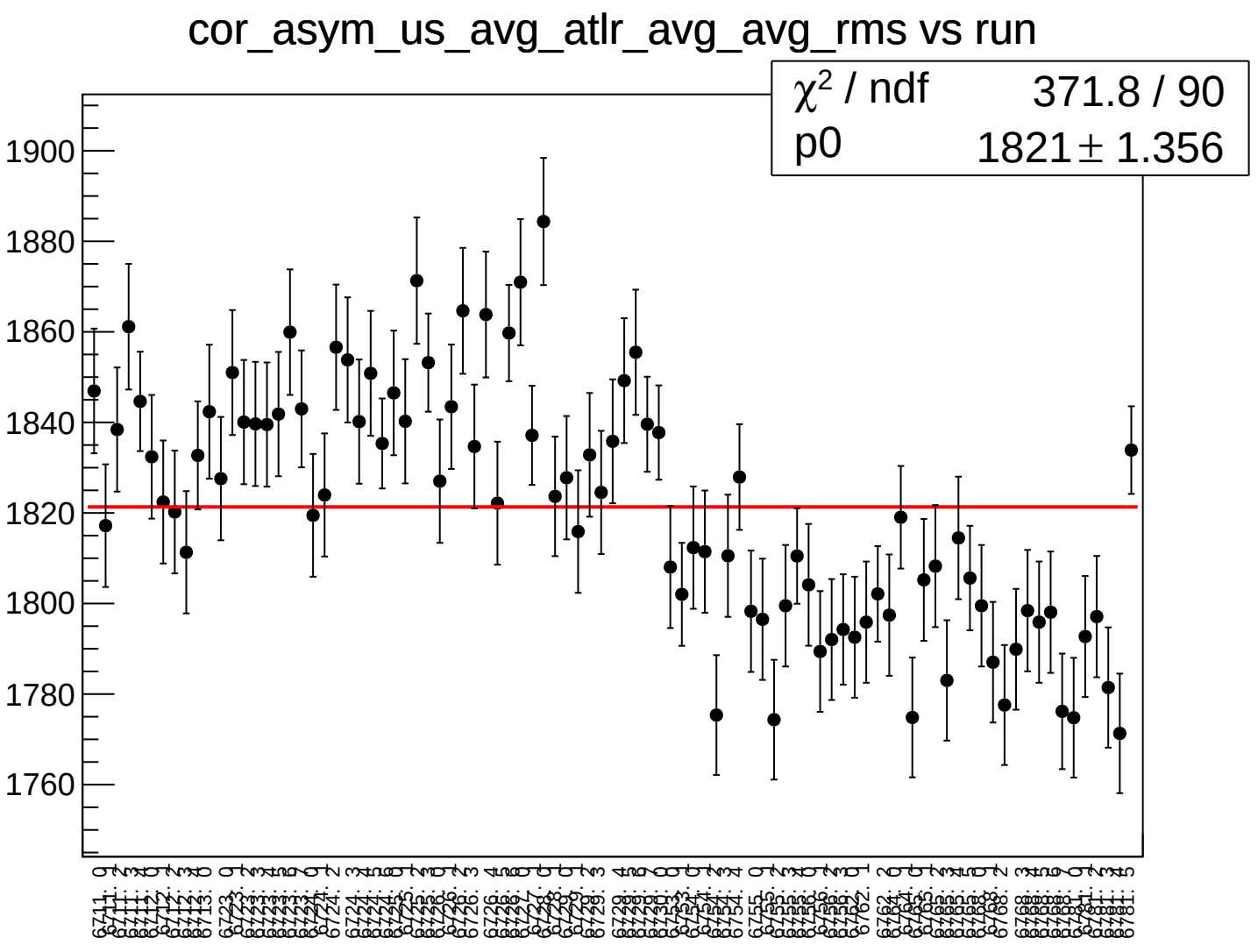
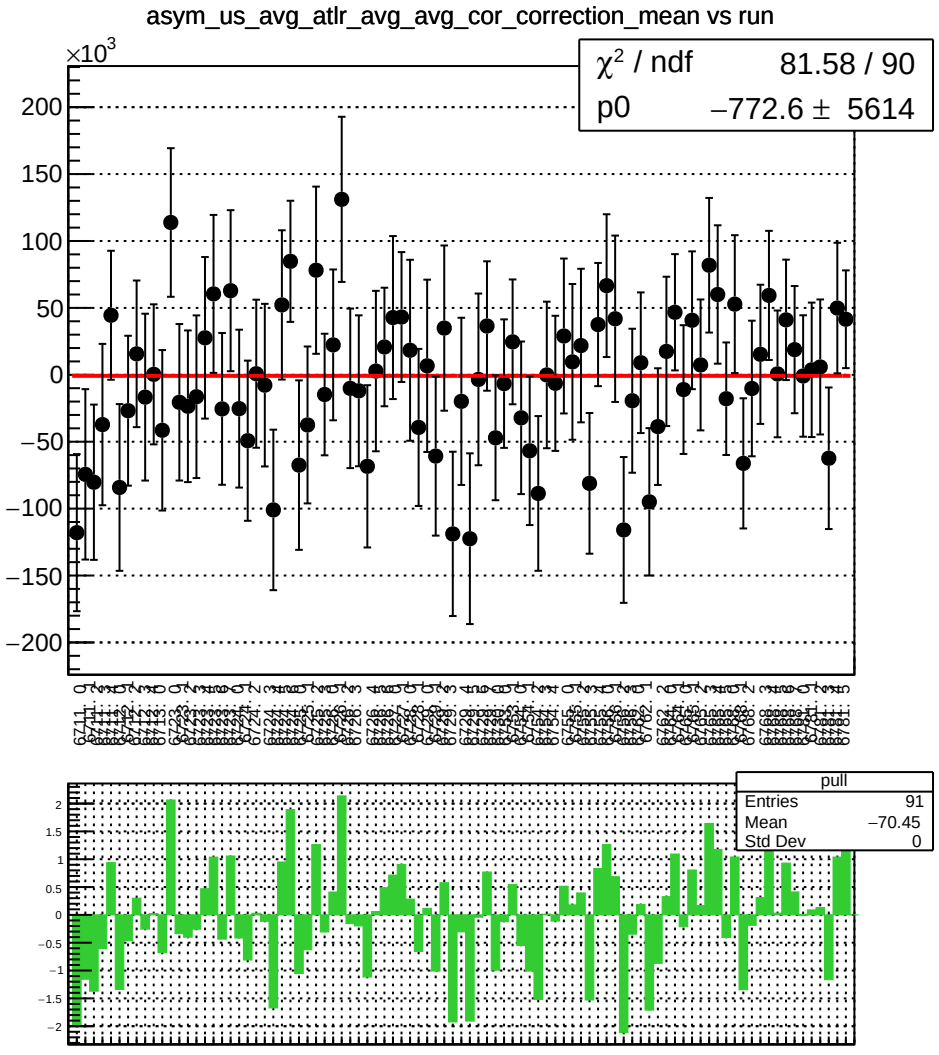
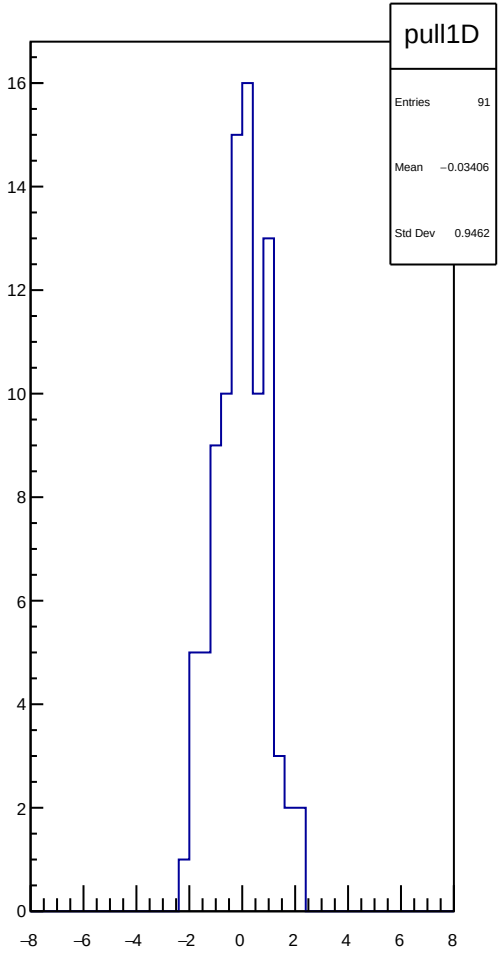
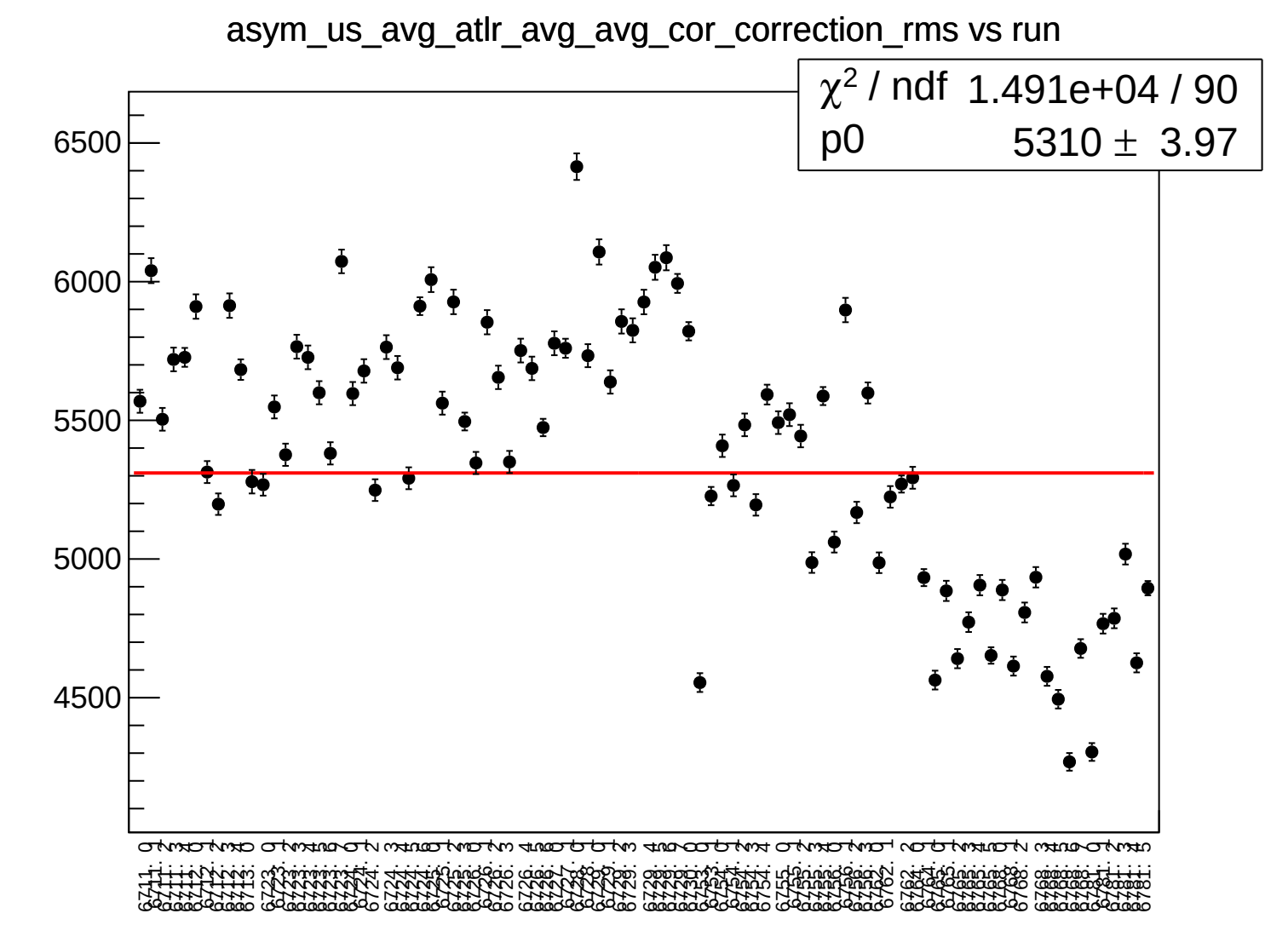
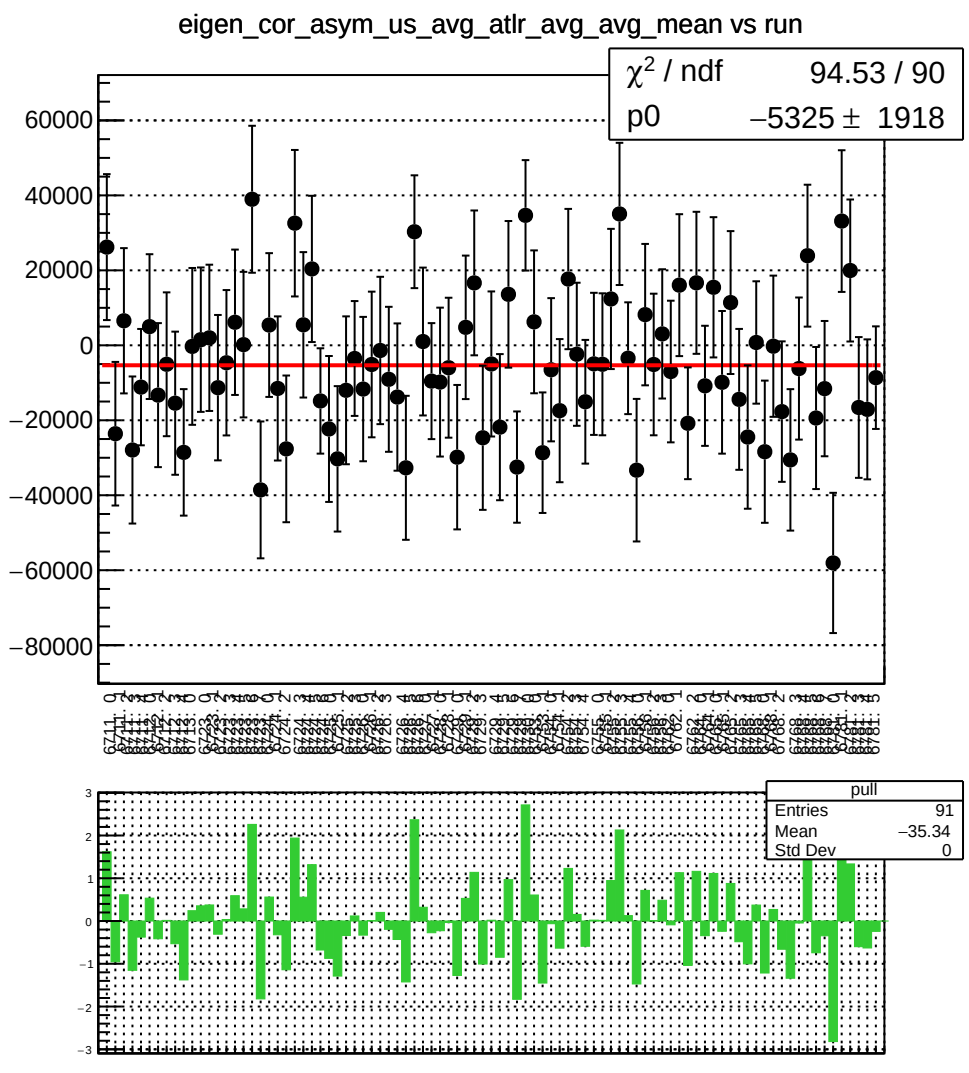
0
2
4
6
8

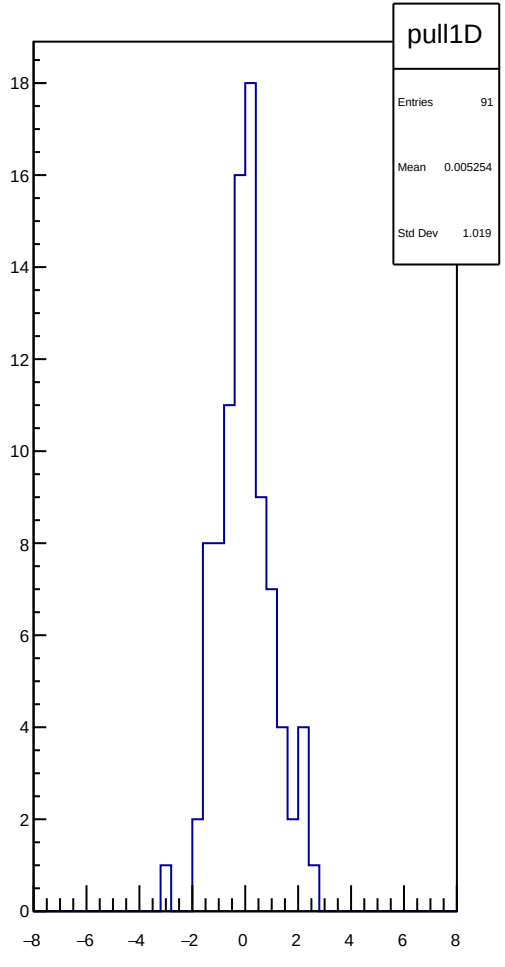

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 371.8 / 90
p0 1821 ± 1.356
1900
1880
1860
1840
1820
1800
1780
1760


asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 81.58 / 90
p0 −772.6 ± 5614
pull
Entries 91
Mean −70.45
Std Dev 0


pull1D
Entries 91
Mean −0.03406
Std Dev 0.9462


asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.491e+04 / 90
p0 5310 ± 3.97
6500
6000
5500
5000
4500


eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 94.53 / 90
p0 −5325 ± 1918
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −35.34
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean 0.005254
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
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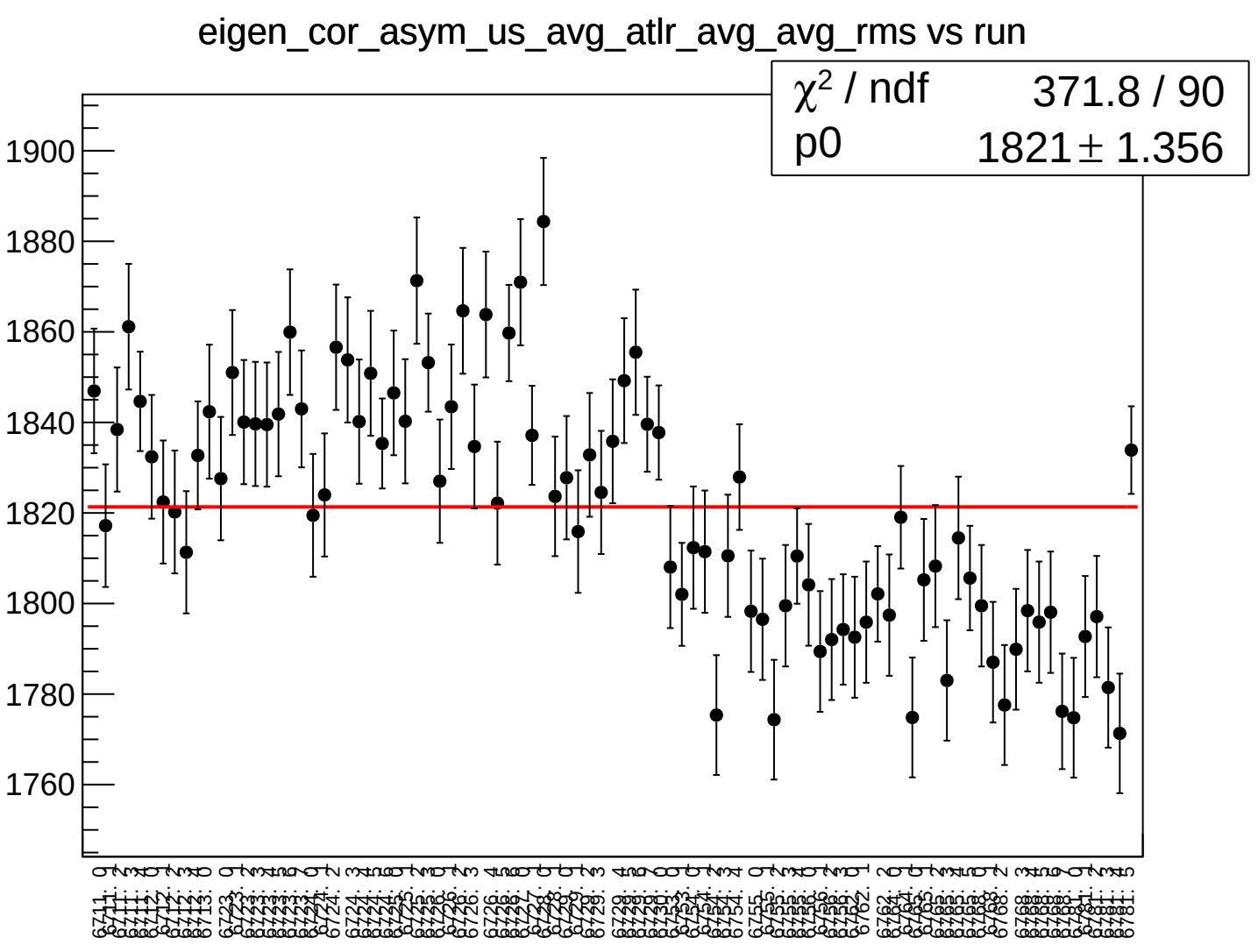
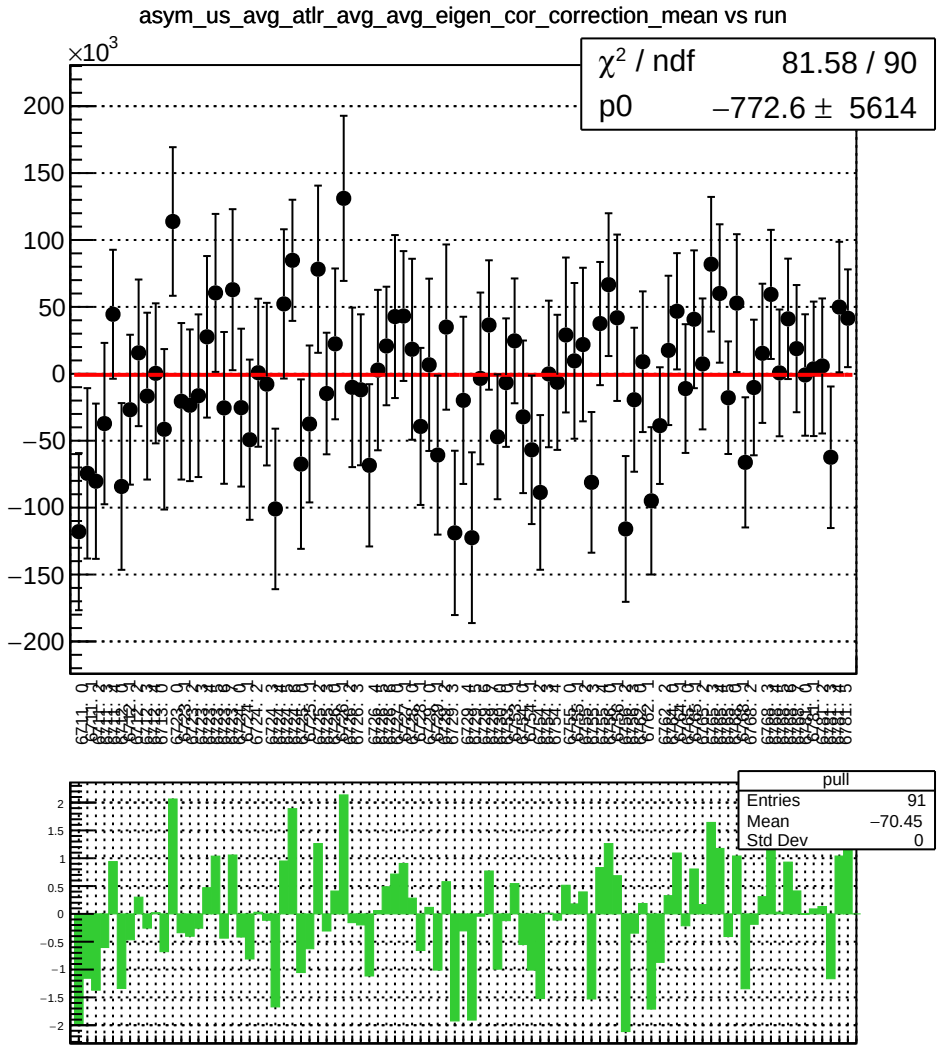
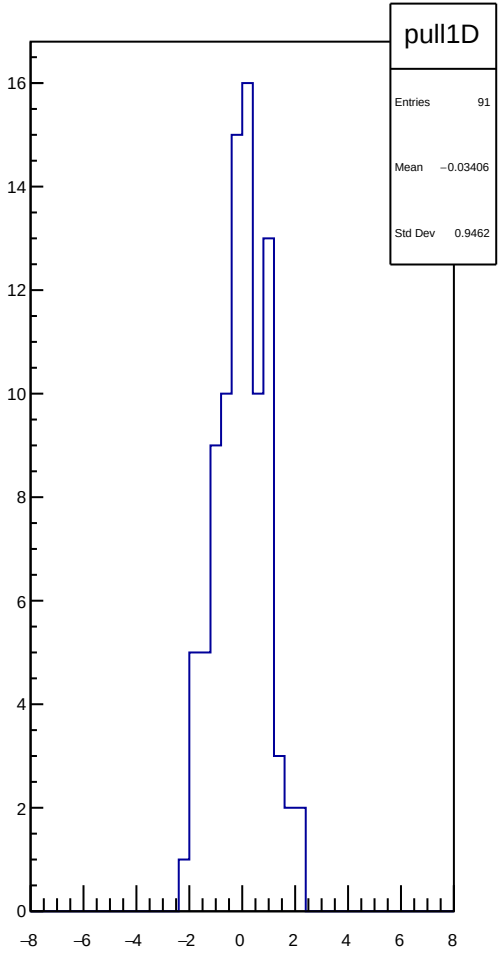
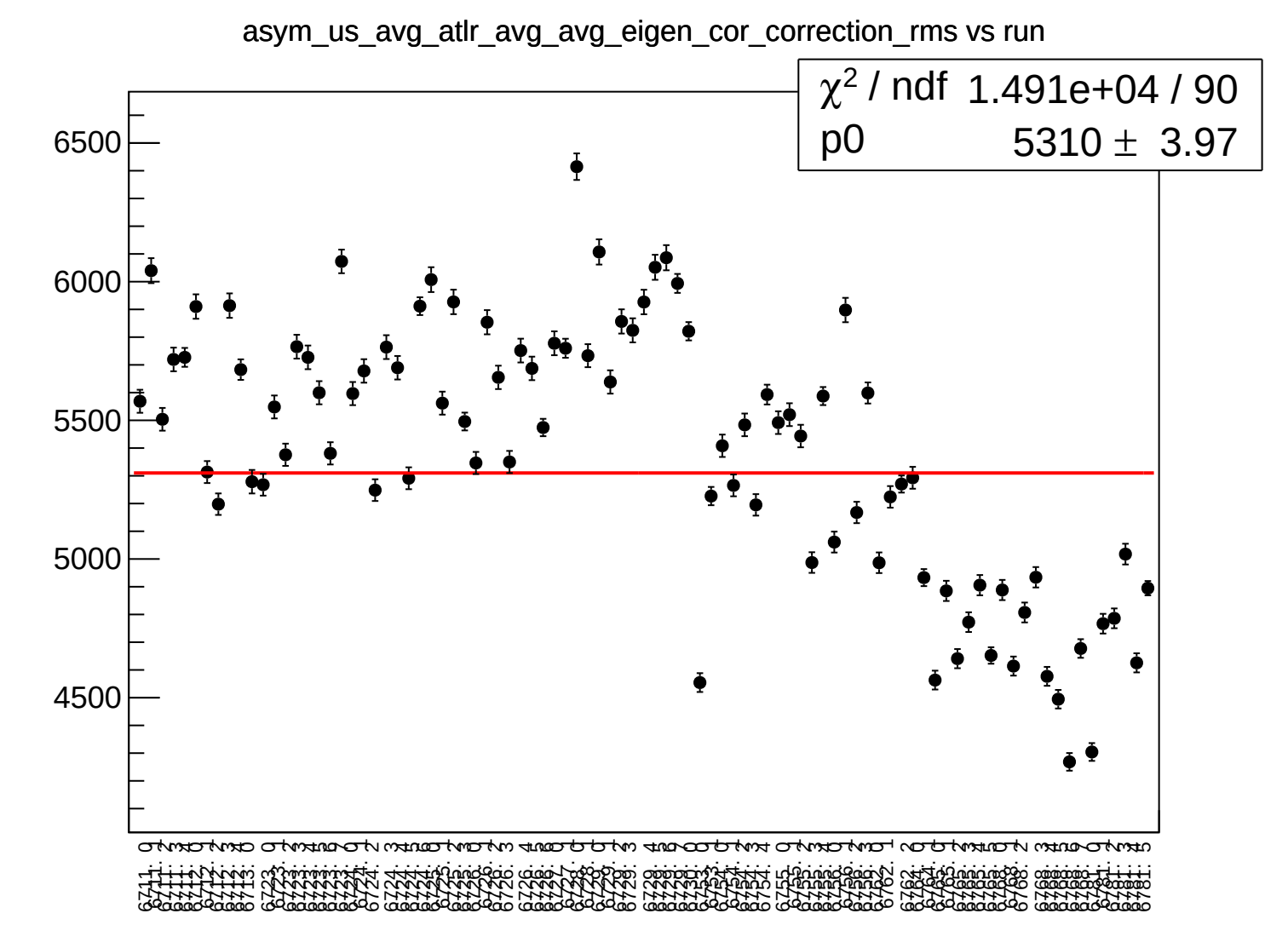
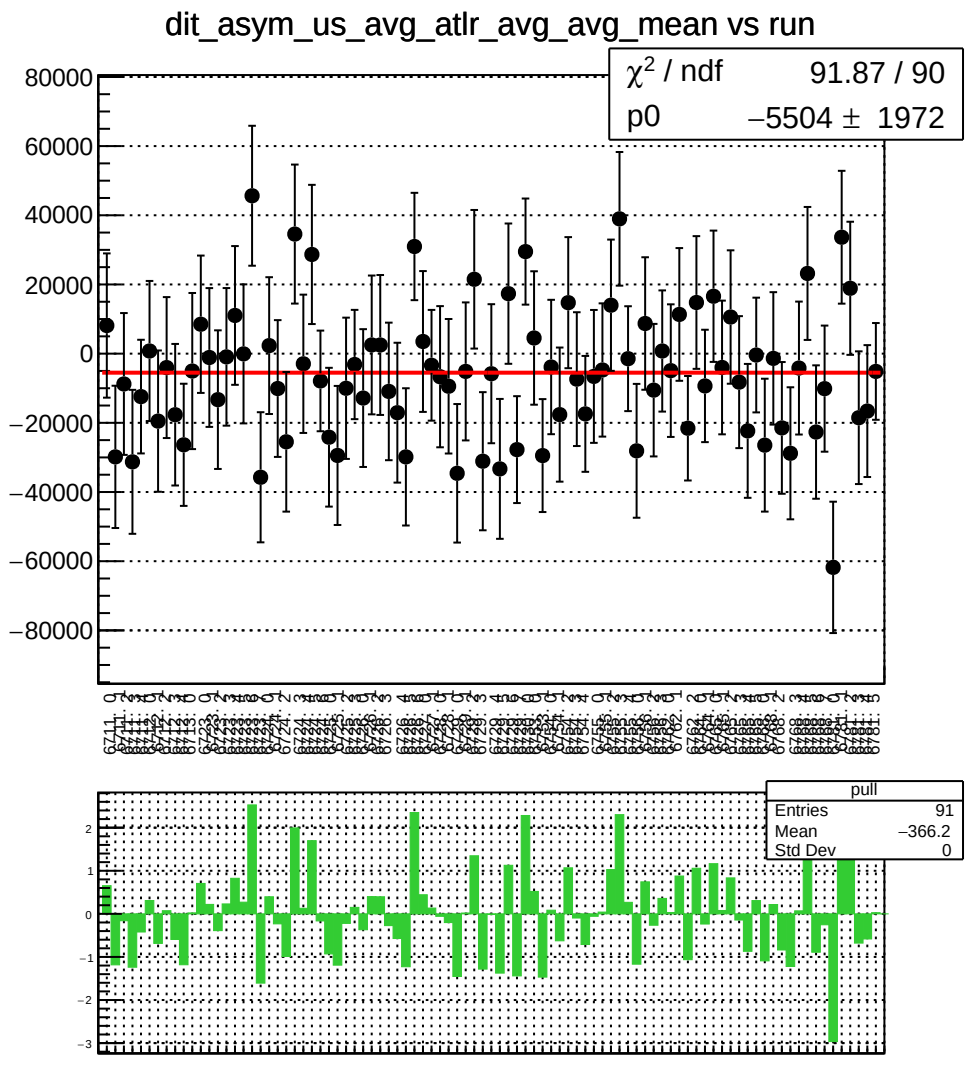
2
4
6
8

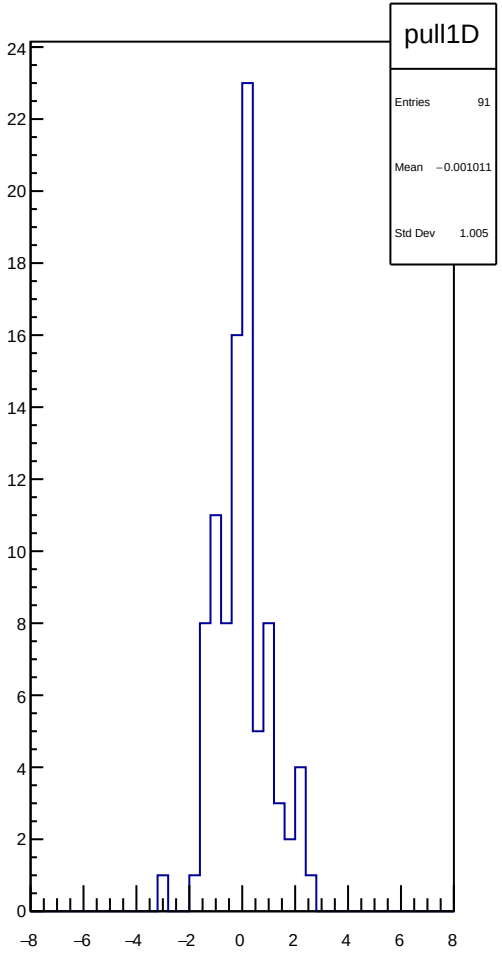

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 371.8 / 90
p0 1821 ± 1.356
1900
1880
1860
1840
1820
1800
1780
1760

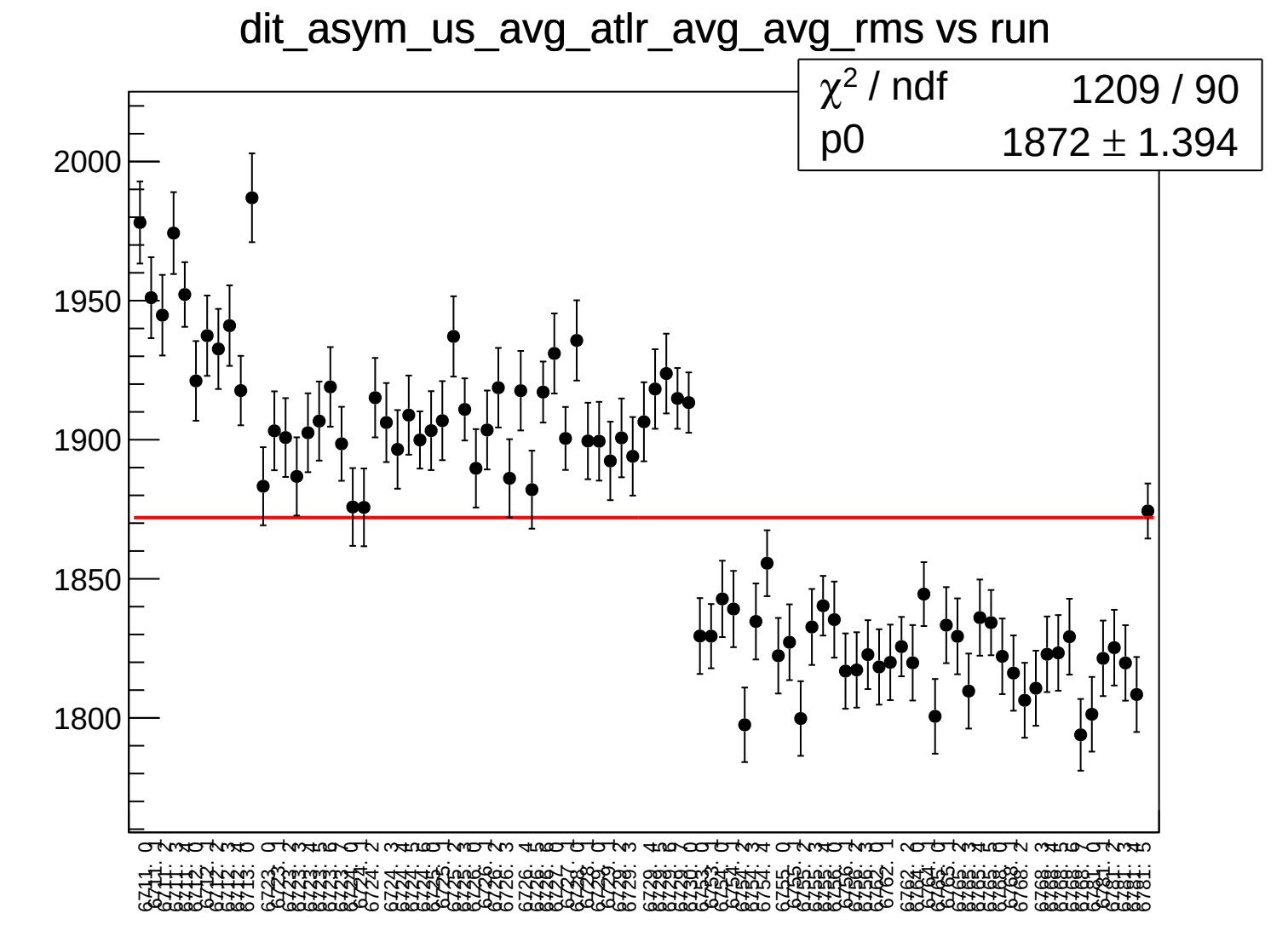

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.58 / 90
p0 −772.6 ± 5614
pull
Entries 91
Mean −70.45
Std Dev 0

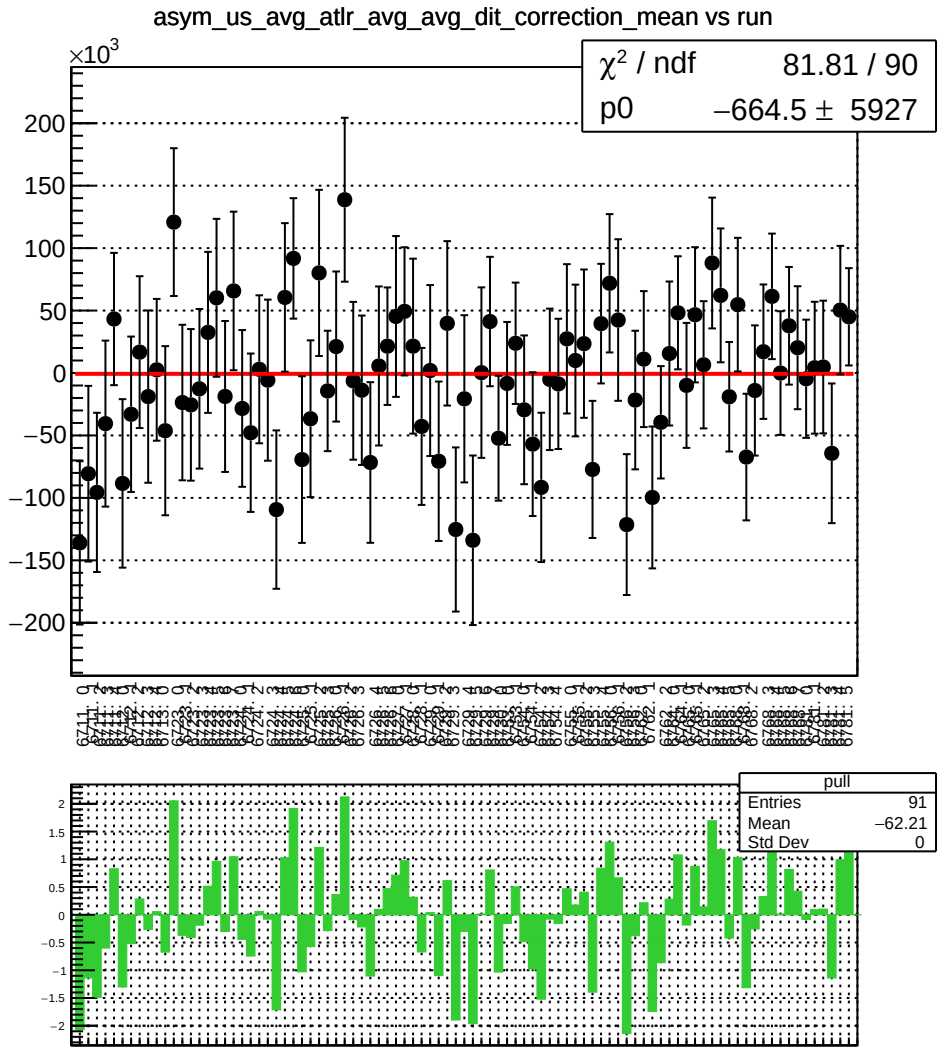

pull1D
Entries 91
Mean −0.03406
Std Dev 0.9462

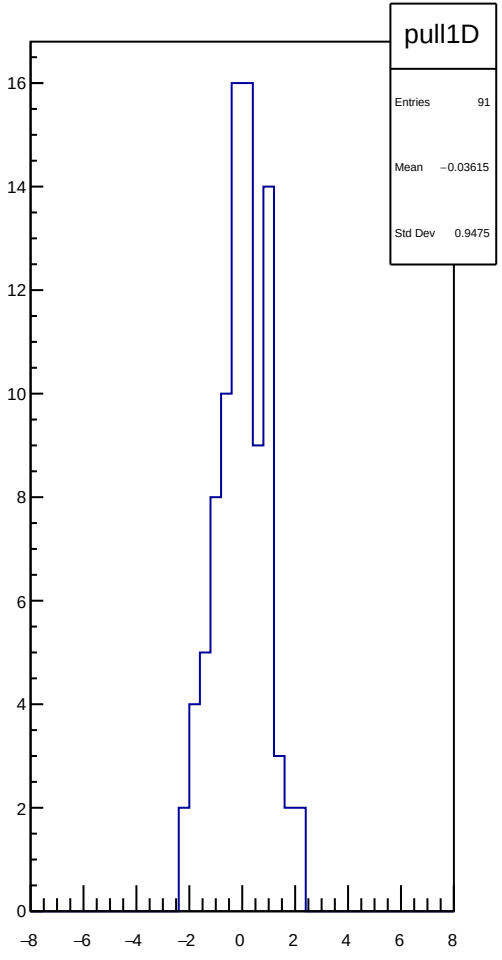

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.491e+04 / 90
p0 5310 ± 3.97
6500
6000
5500
5000
4500

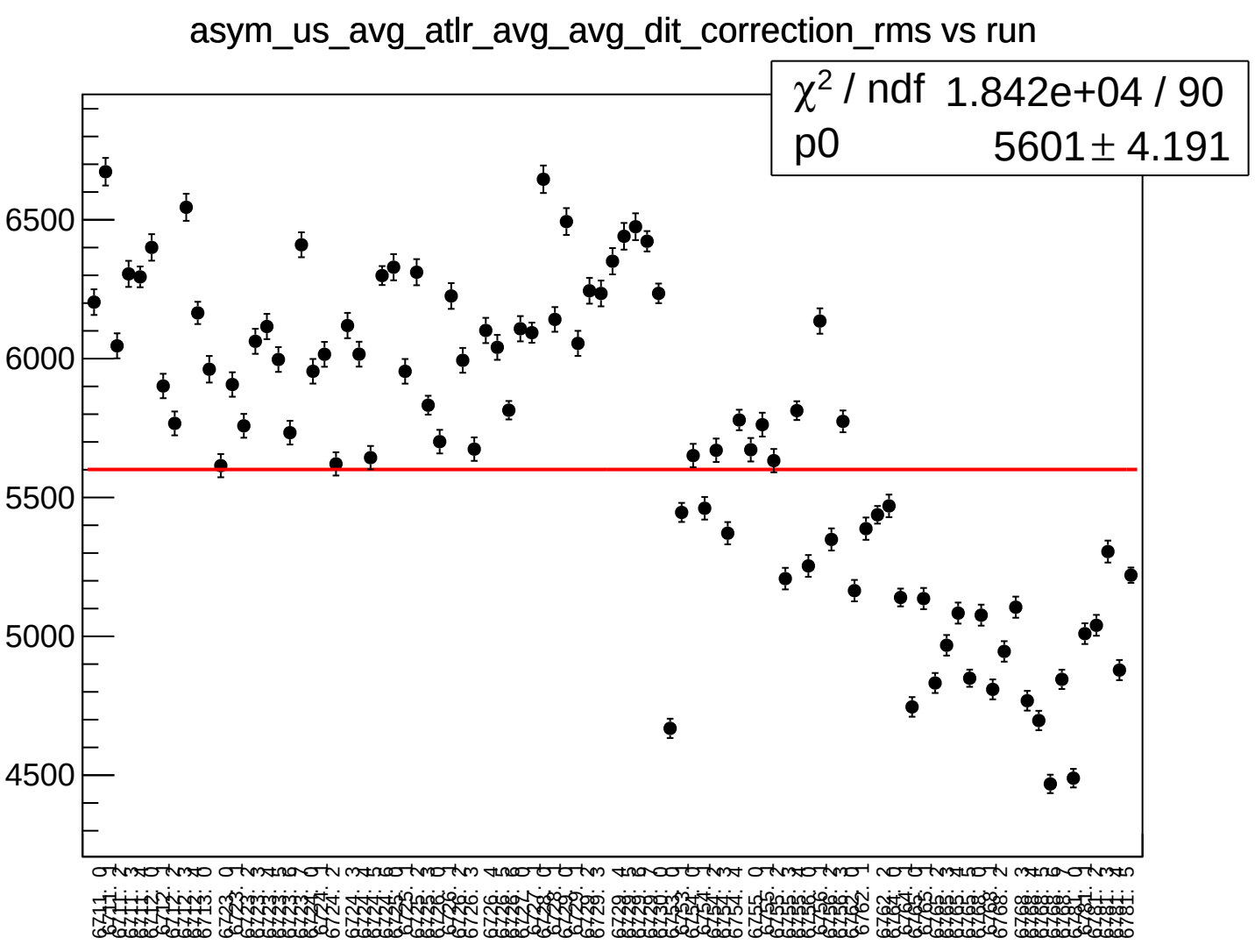

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 91.87 / 90
p0 −5504 ± 1972
pull
Entries 91
Mean −366.2
Std Dev 0

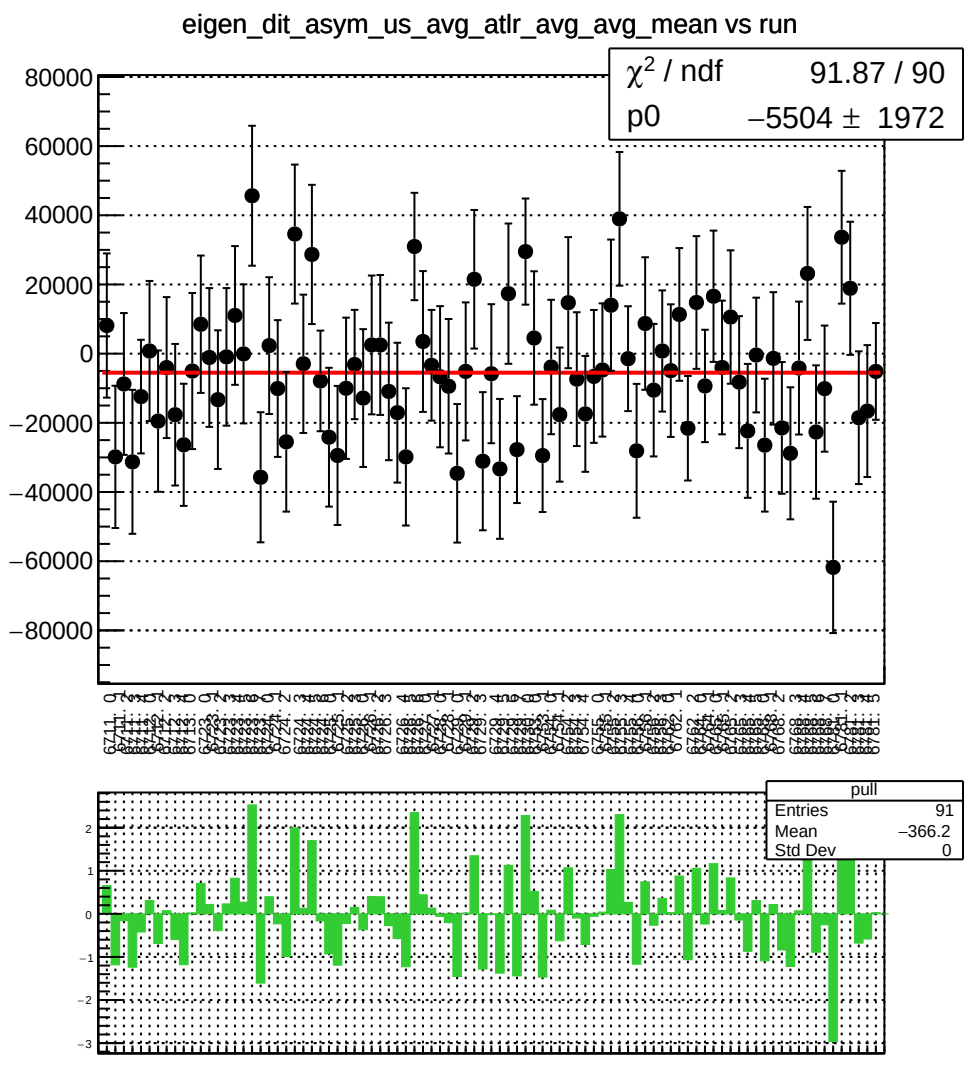

pull1D
Entries 91
Mean −0.001011
Std Dev 1.005

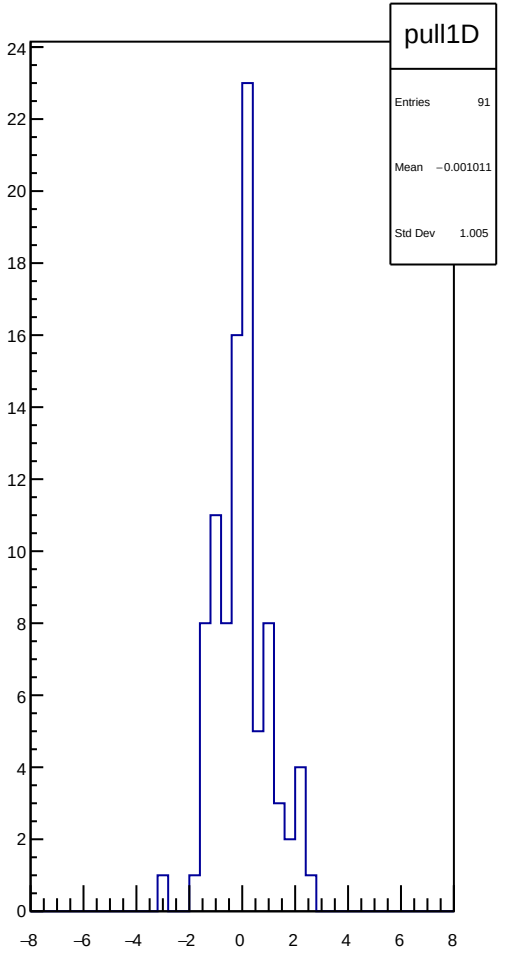

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 1209 / 90
p0 1872 ± 1.394
2000
1950
1900
1850
1800

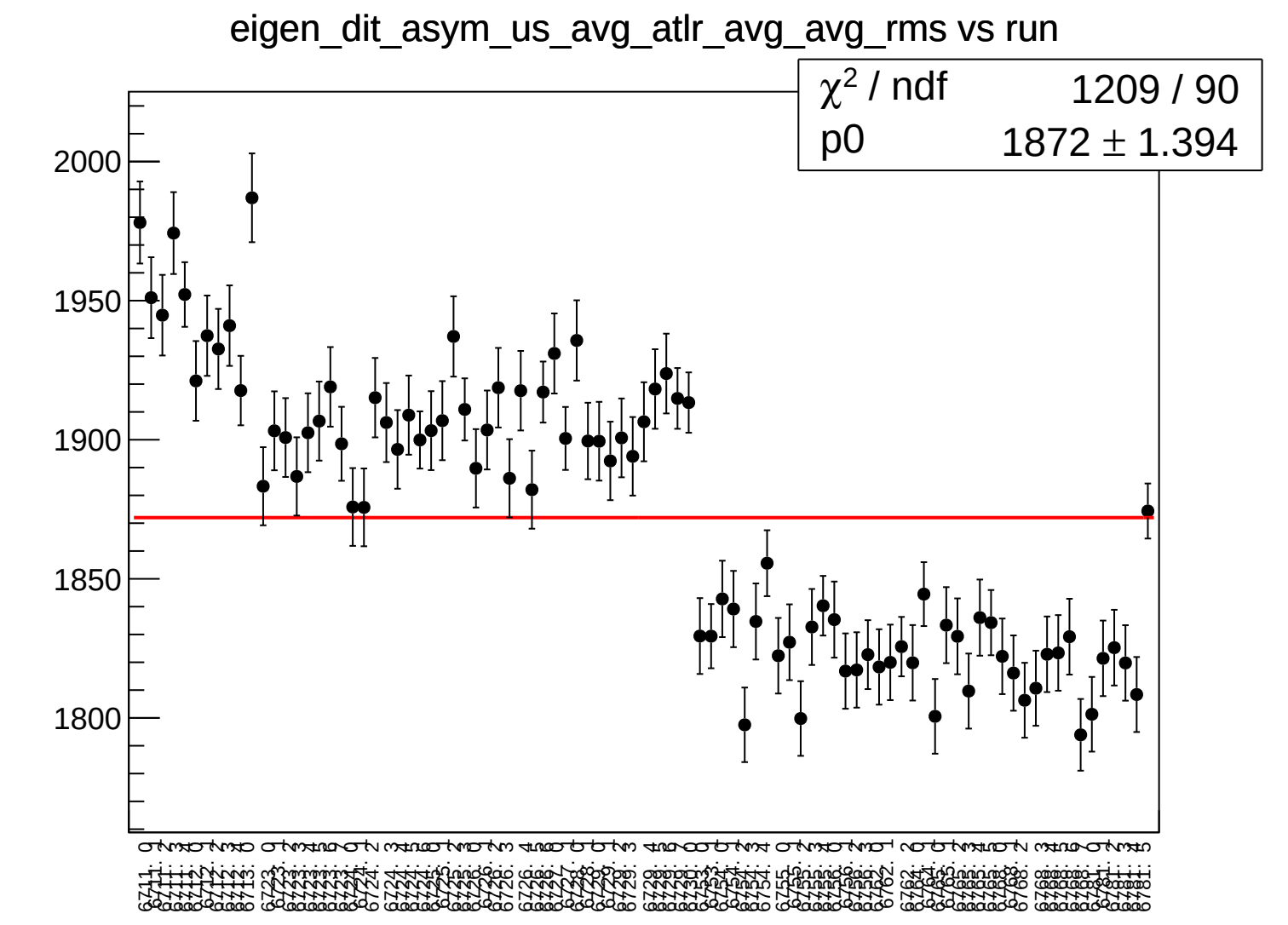

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 81.81 / 90
p0 −664.5 ± 5927
pull
Entries 91
Mean −62.21
Std Dev 0

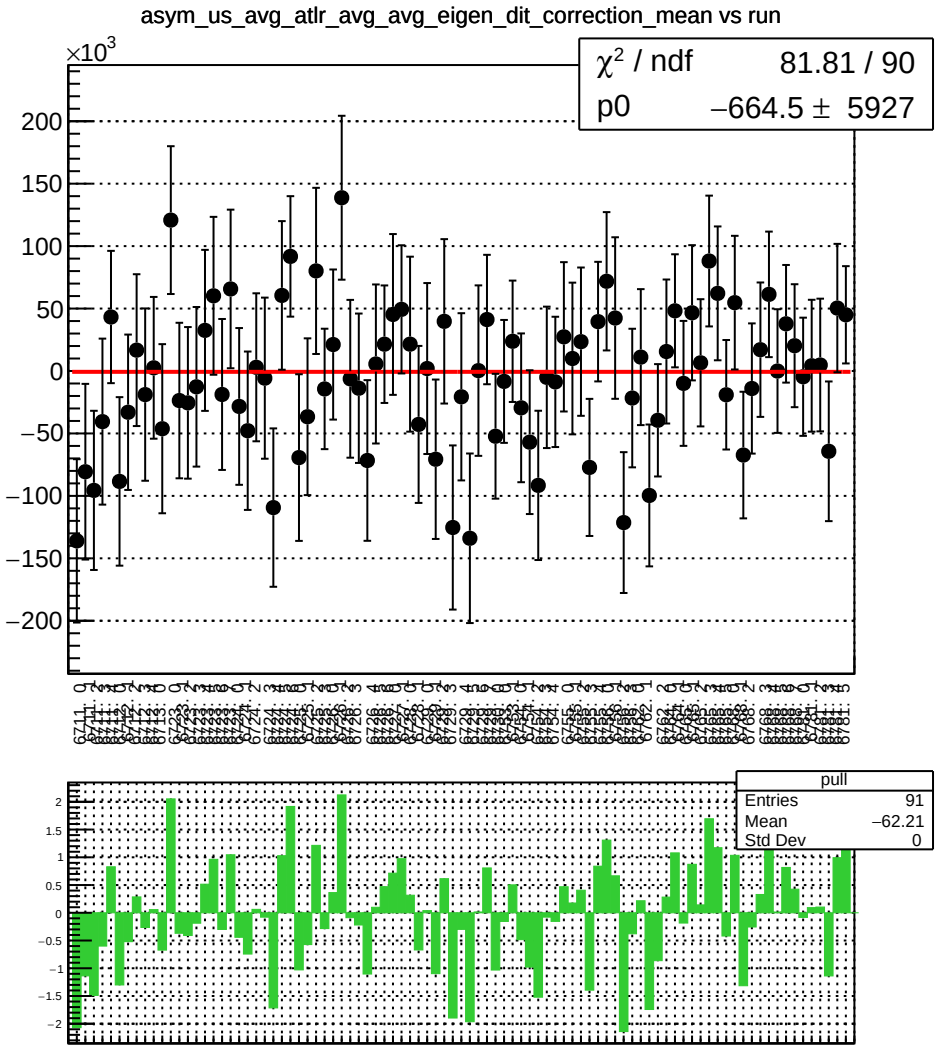

pull1D
Entries 91
Mean −0.03615
Std Dev 0.9475

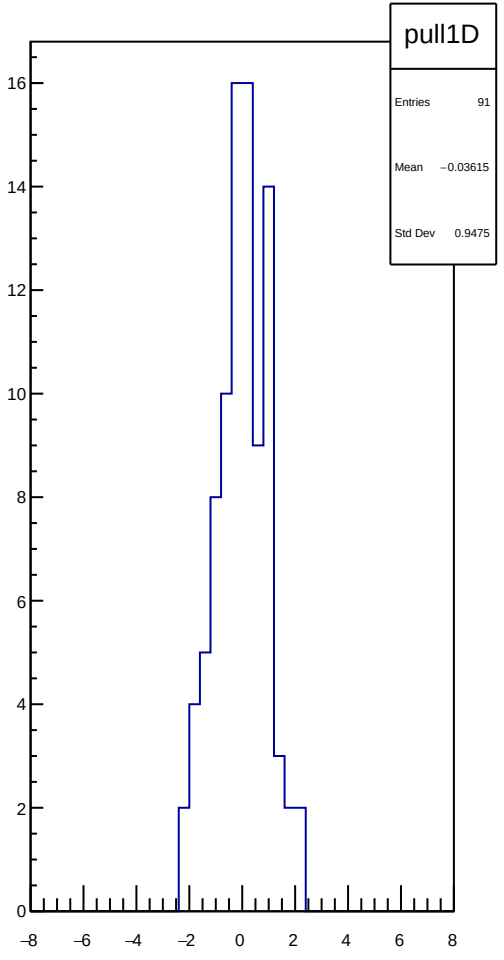

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.842e+04 / 90
p0 5601 ± 4.191
6500
6000
5500
5000
4500

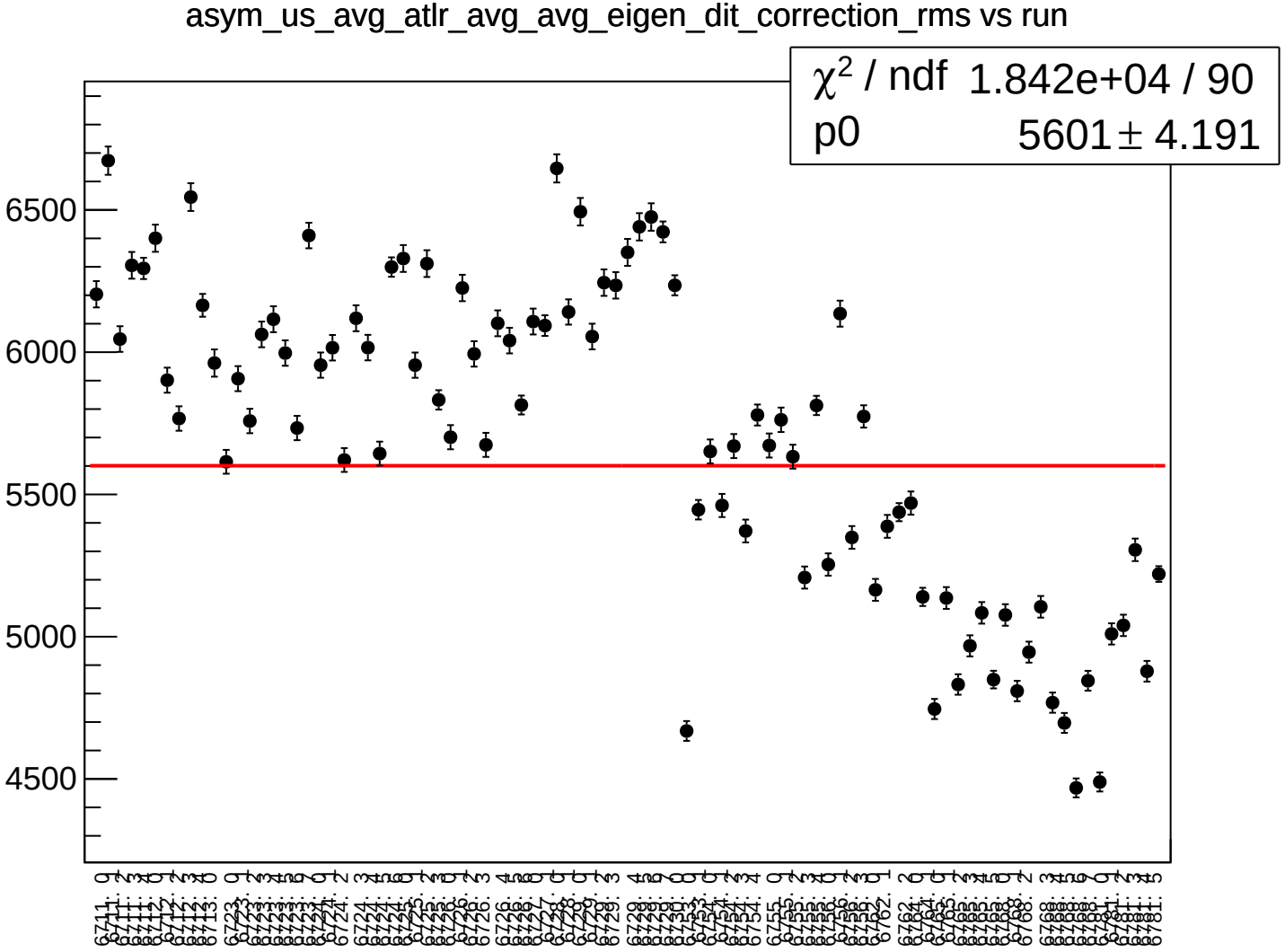

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 91.87 / 90
p0 −5504 ± 1972
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 91
Mean −366.2
Std Dev 0
2
1
0
−1
−2
−3

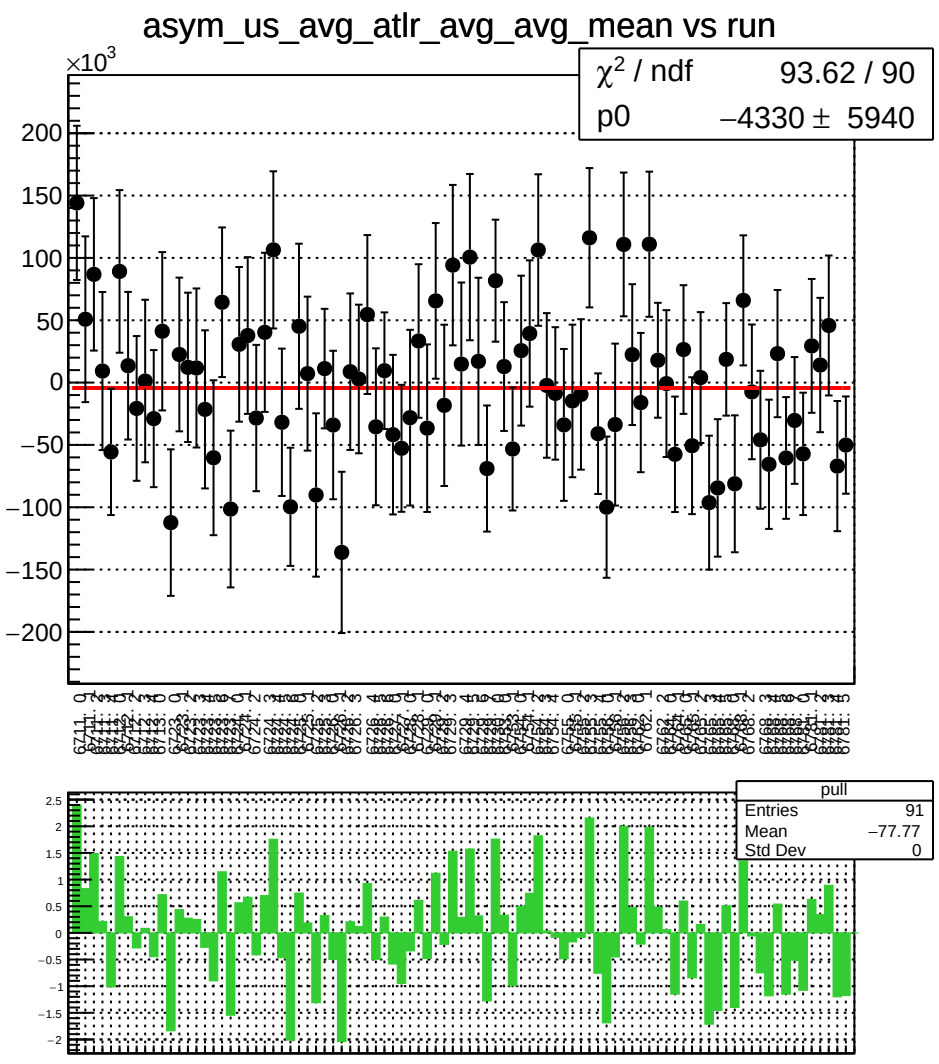

pull1D
Entries 91
Mean −0.001011
Std Dev 1.005
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

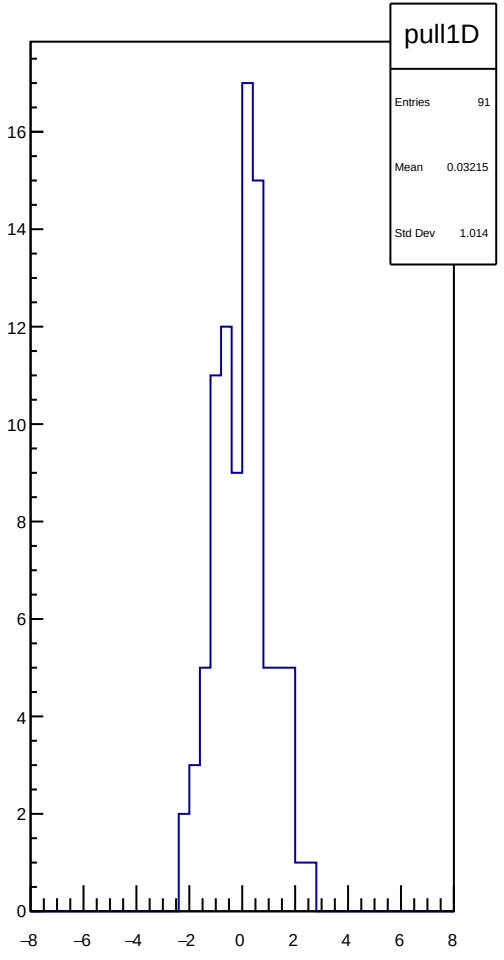

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 1209 / 90
p0 1872 ± 1.394
2000
1950
1900
1850
1800

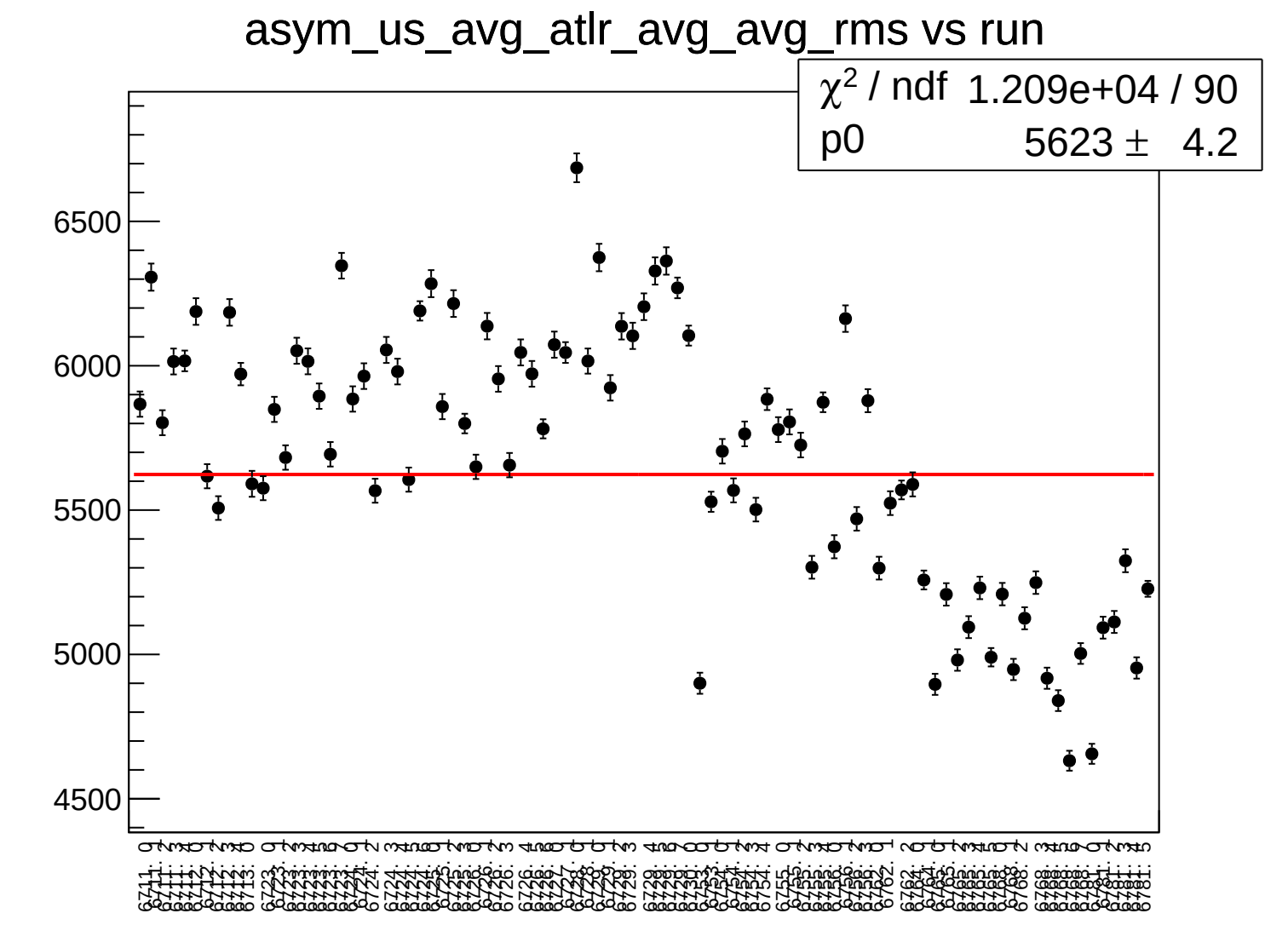

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.81 / 90
p0 −664.5 ± 5927
pull
Entries 91
Mean −62.21
Std Dev 0

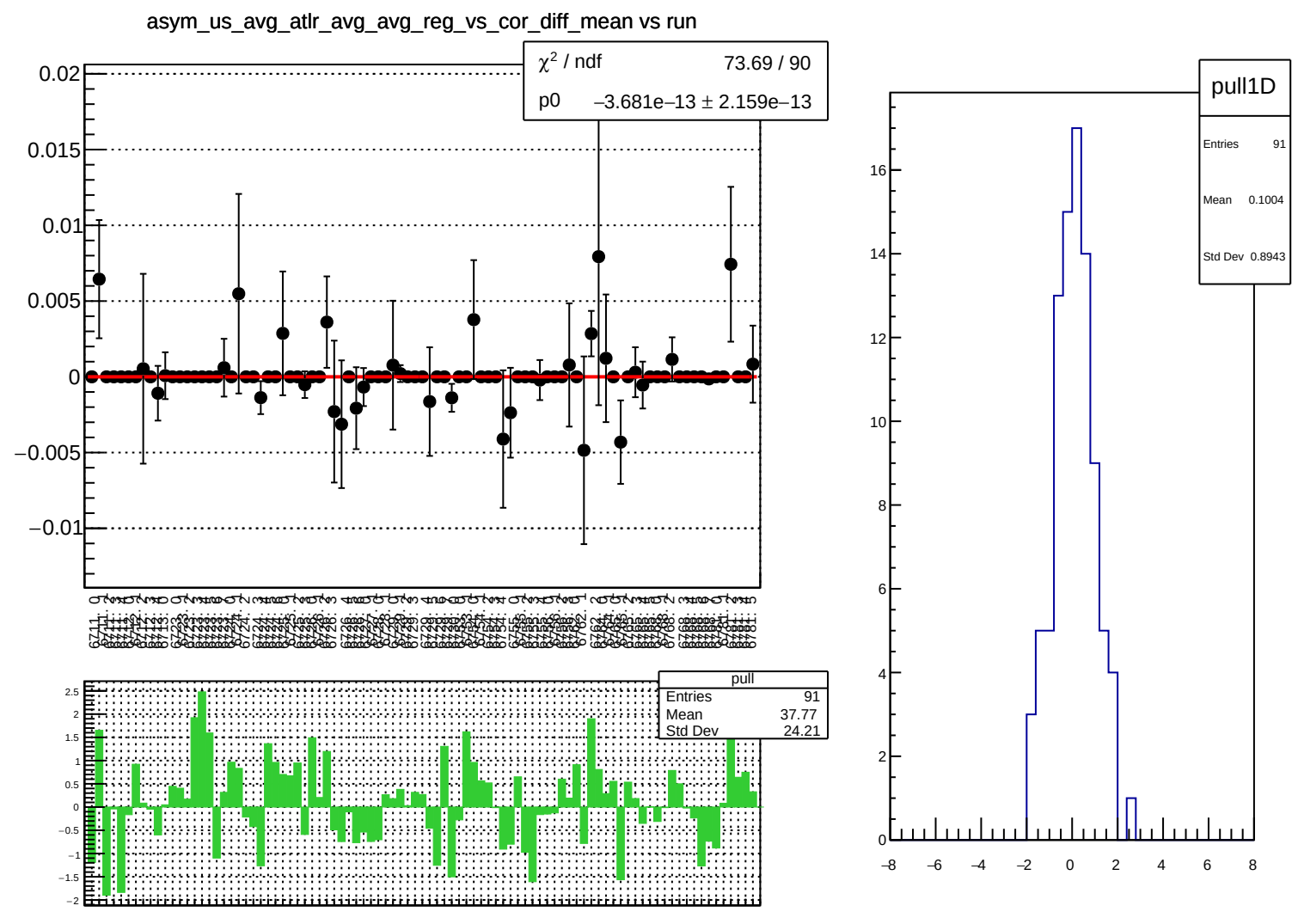

pull1D
Entries 91
Mean −0.03615
Std Dev 0.9475

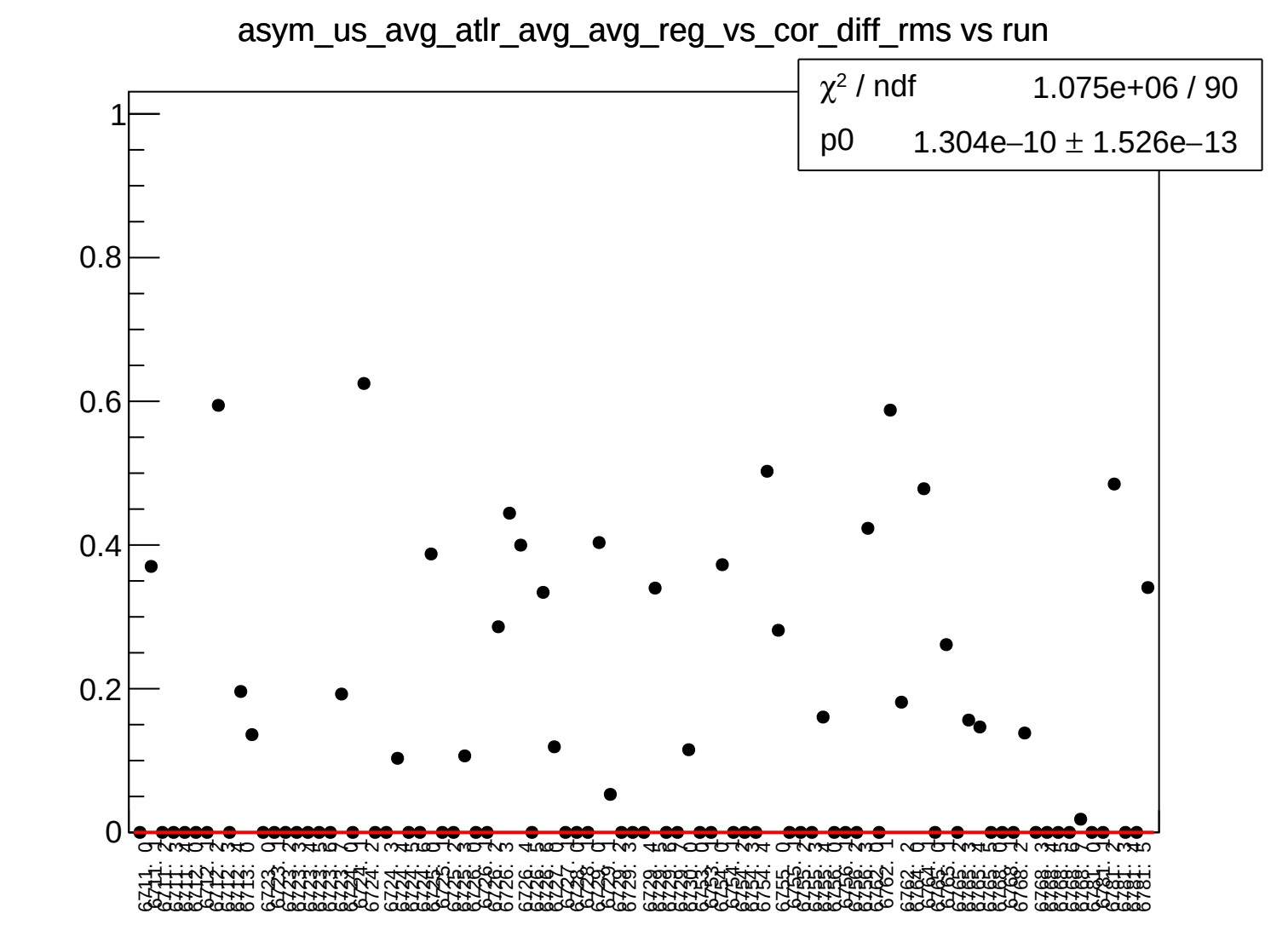

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.842e+04 / 90
p0 5601 ± 4.191
6500
6000
5500
5000
4500

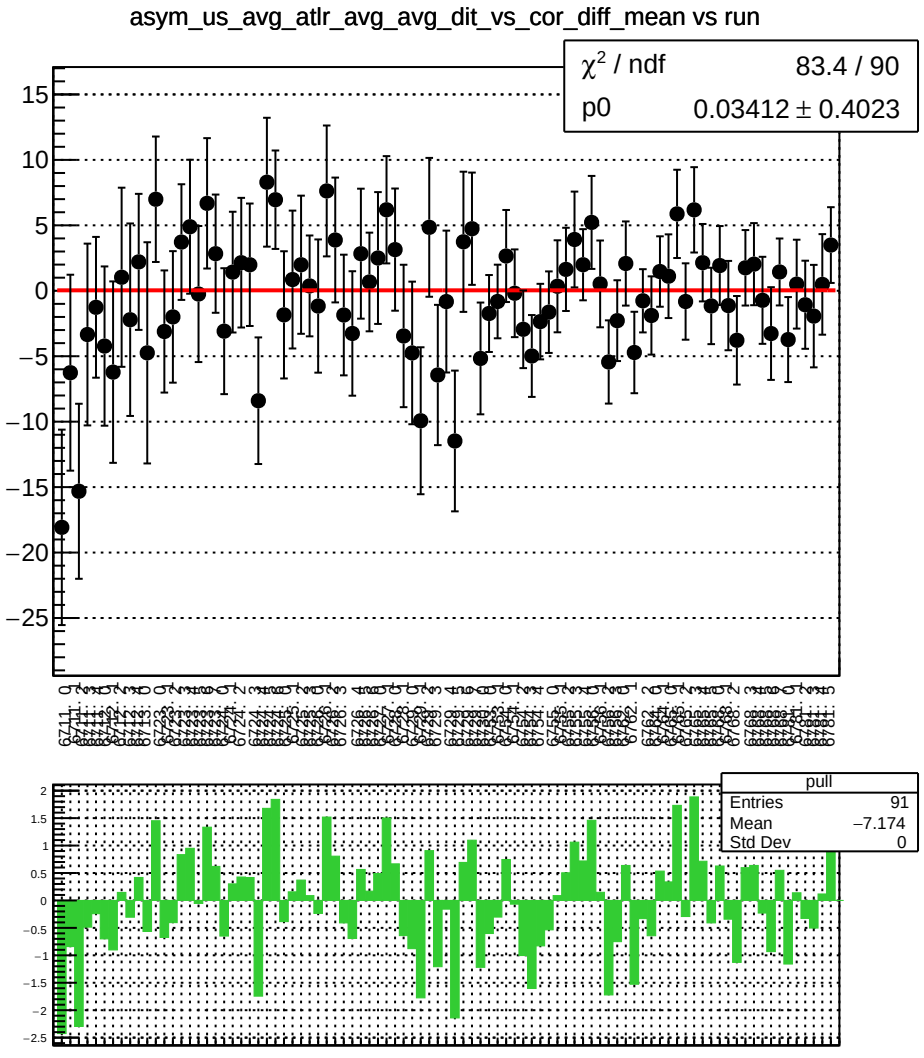

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 93.62 / 90
p0 −4330 ± 5940
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 91
Mean −77.77
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

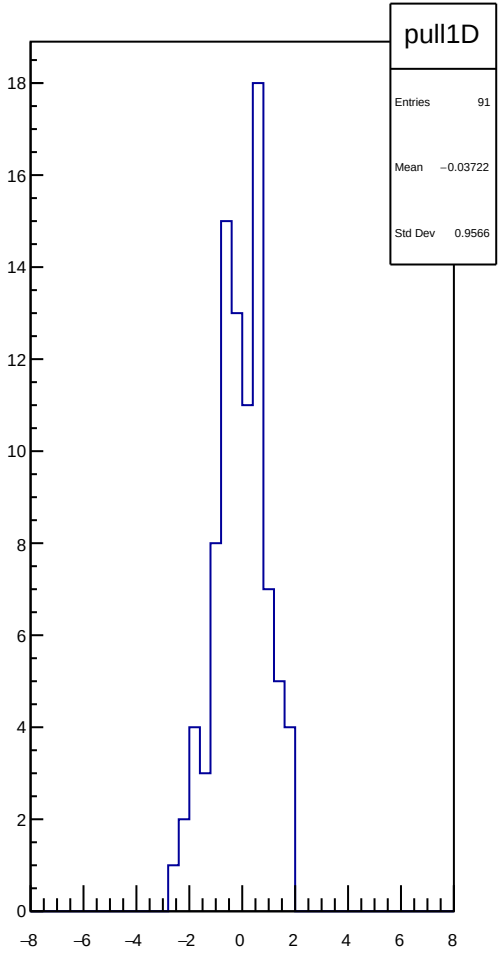

pull1D
Entries 91
Mean 0.03215
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

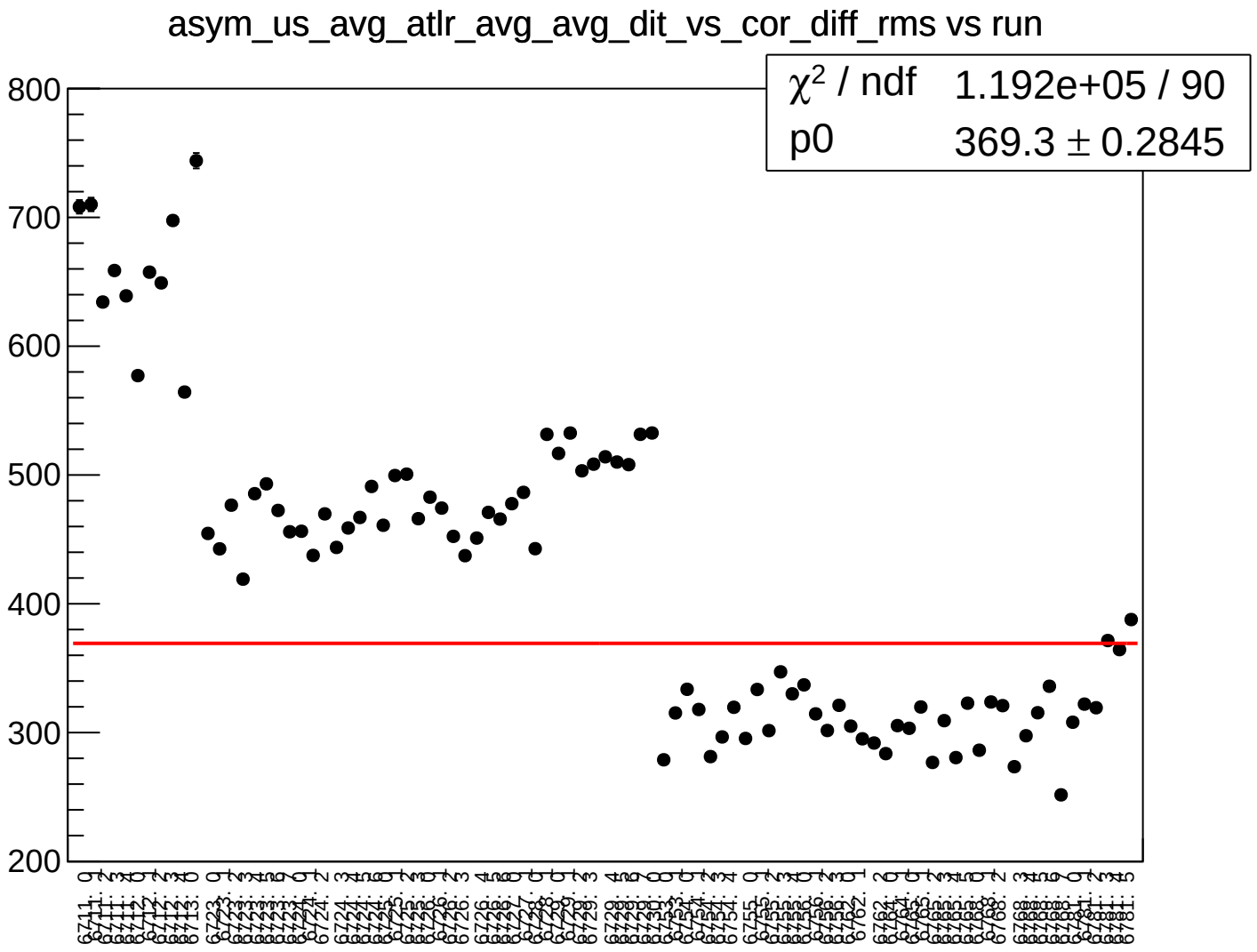

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 1.209e+04 / 90
p0 5623 ± 4.2
6500
6000
5500
5000
4500

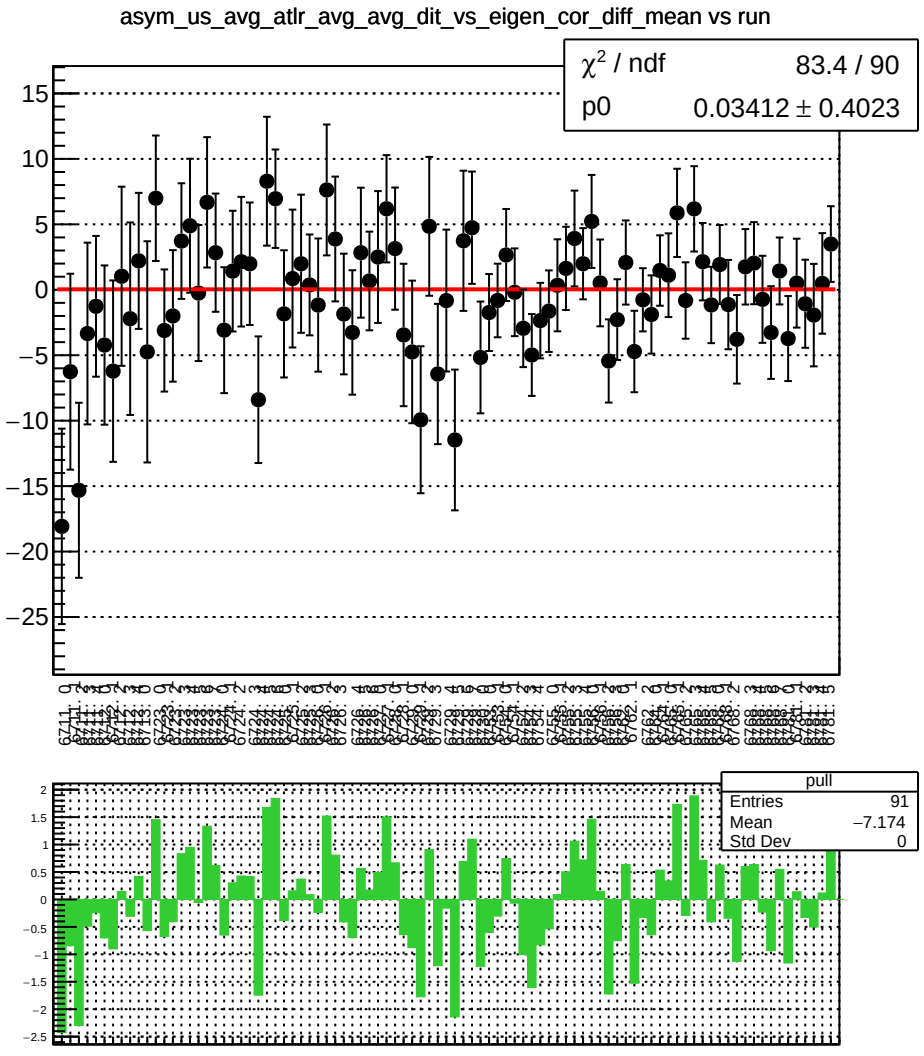

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.69 / 90
p0 −3.681e−13 ± 2.159e−13
pull
Entries 91
Mean 37.77
Std Dev 24.21
pull1D
Entries 91
Mean 0.1004
Std Dev 0.8943

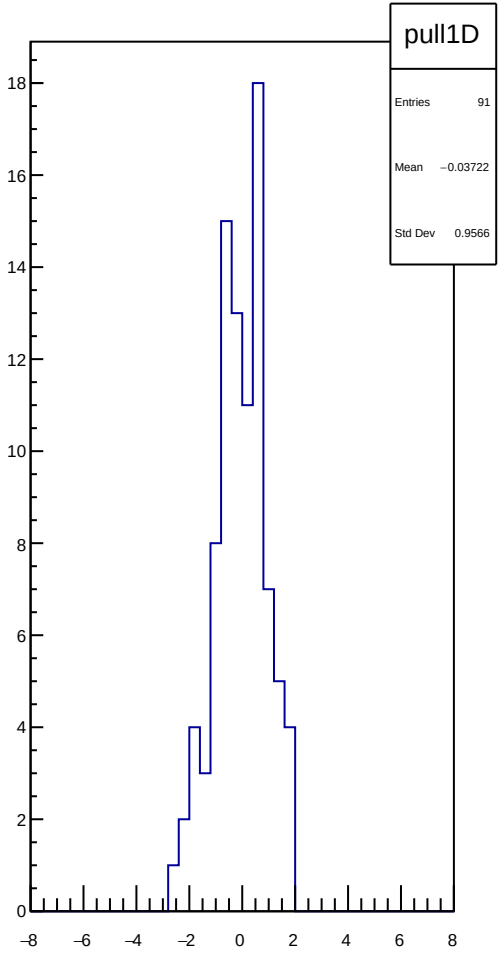

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.075e+06 / 90
p0 1.304e−10 ± 1.526e−13
1
0.8
0.6
0.4
0.2
0

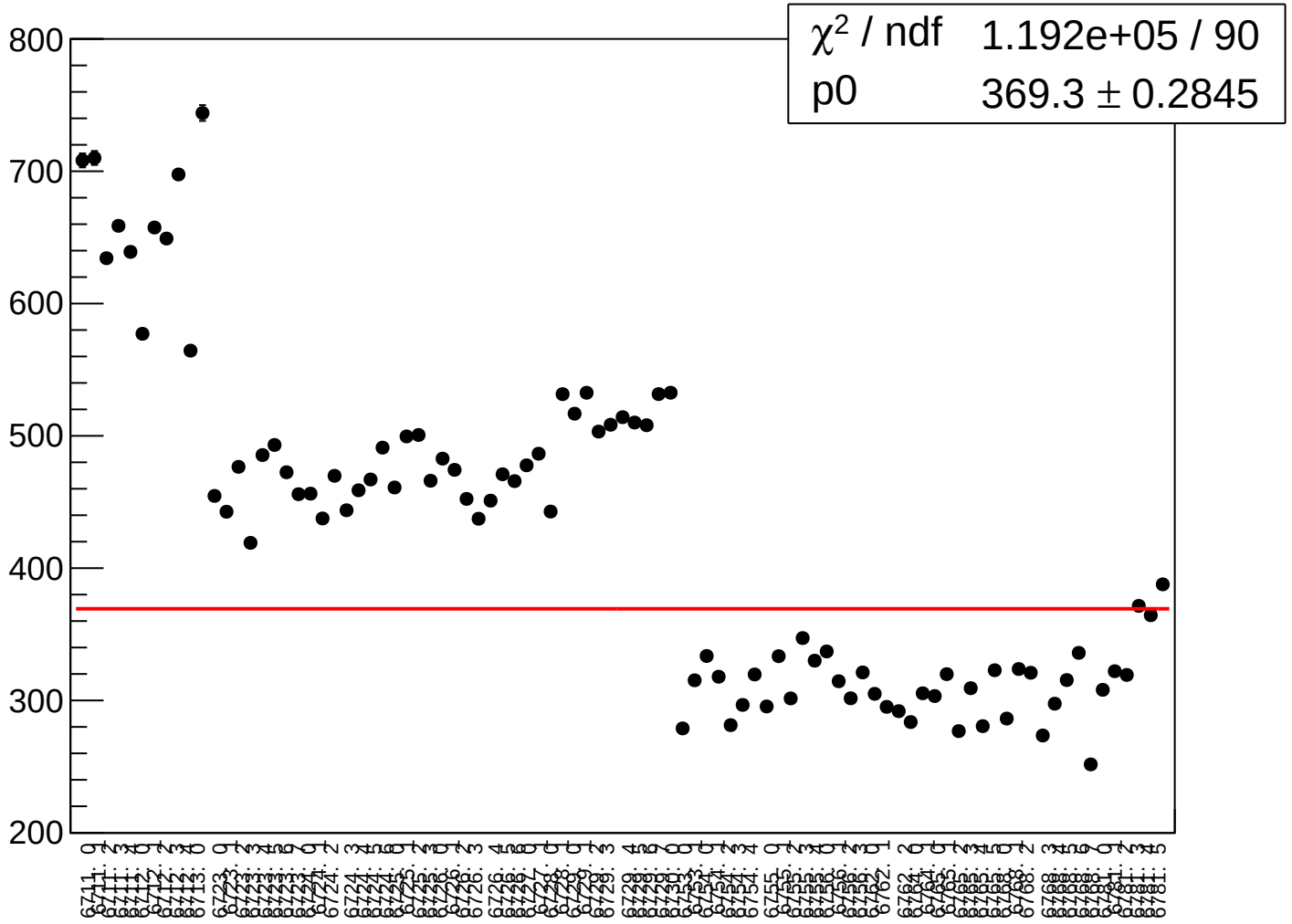

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.4 / 90
p0 0.03412 ± 0.4023
pull
Entries 91
Mean −7.174
Std Dev 0

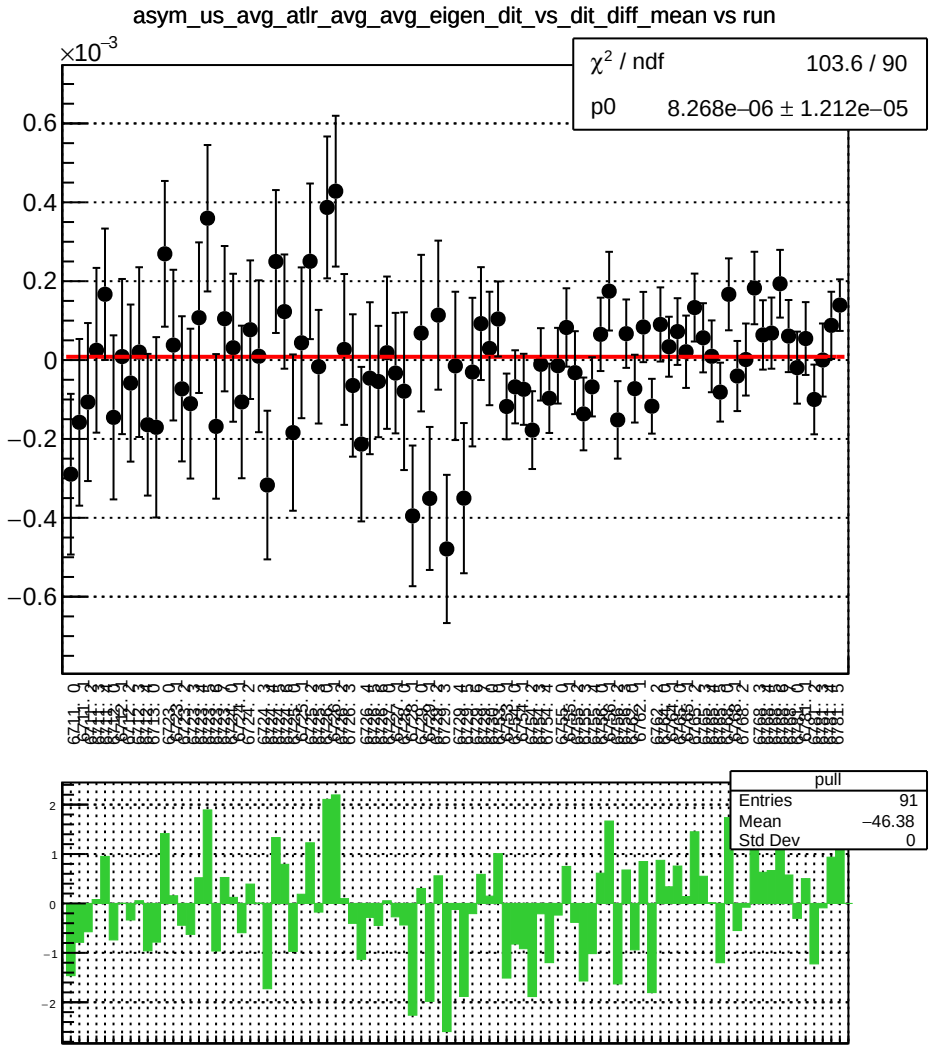

pull1D
Entries 91
Mean −0.03722
Std Dev 0.9566

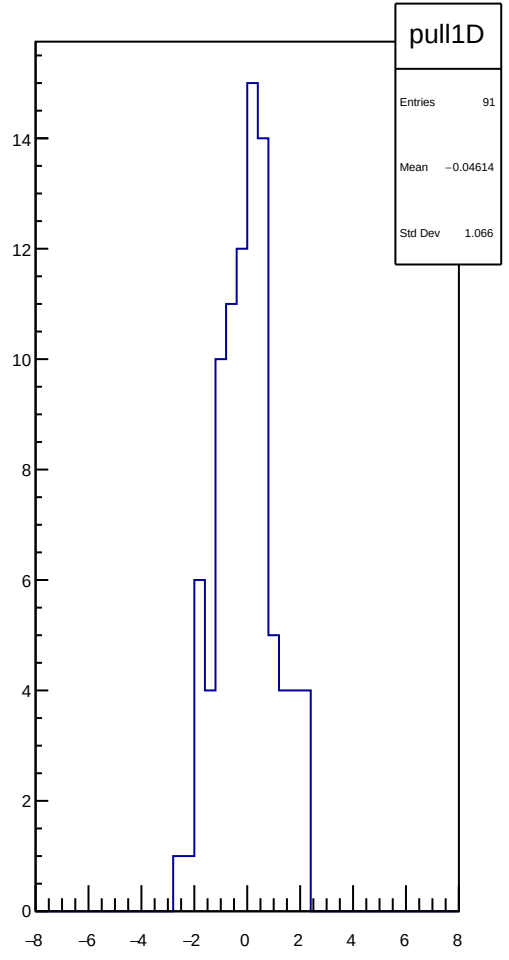

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.192e+05 / 90
p0 369.3 ± 0.2845
800
700
600
500
400
300
200

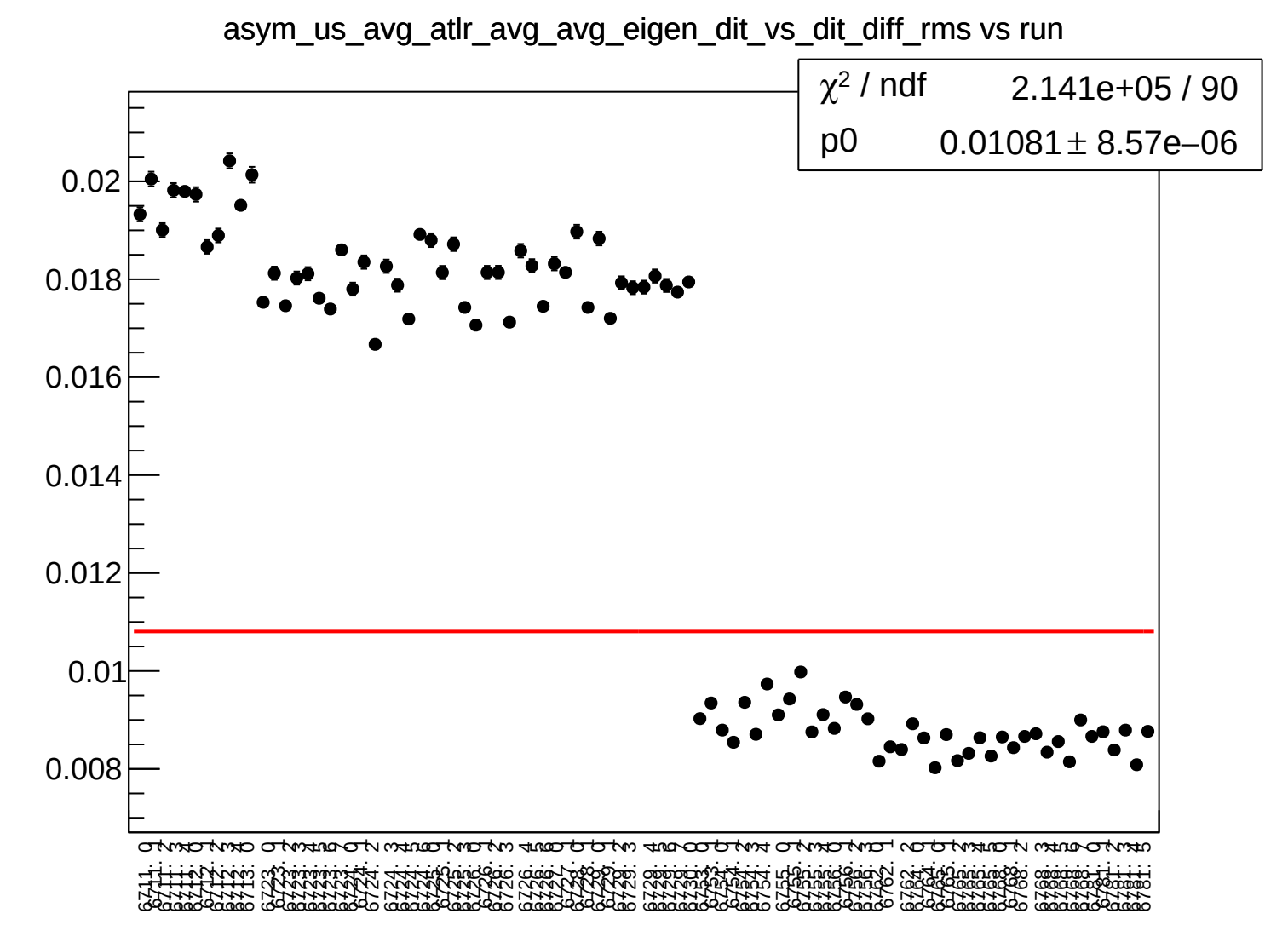

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.4 / 90
p0 0.03412 ± 0.4023
pull
Entries 91
Mean −7.174
Std Dev 0

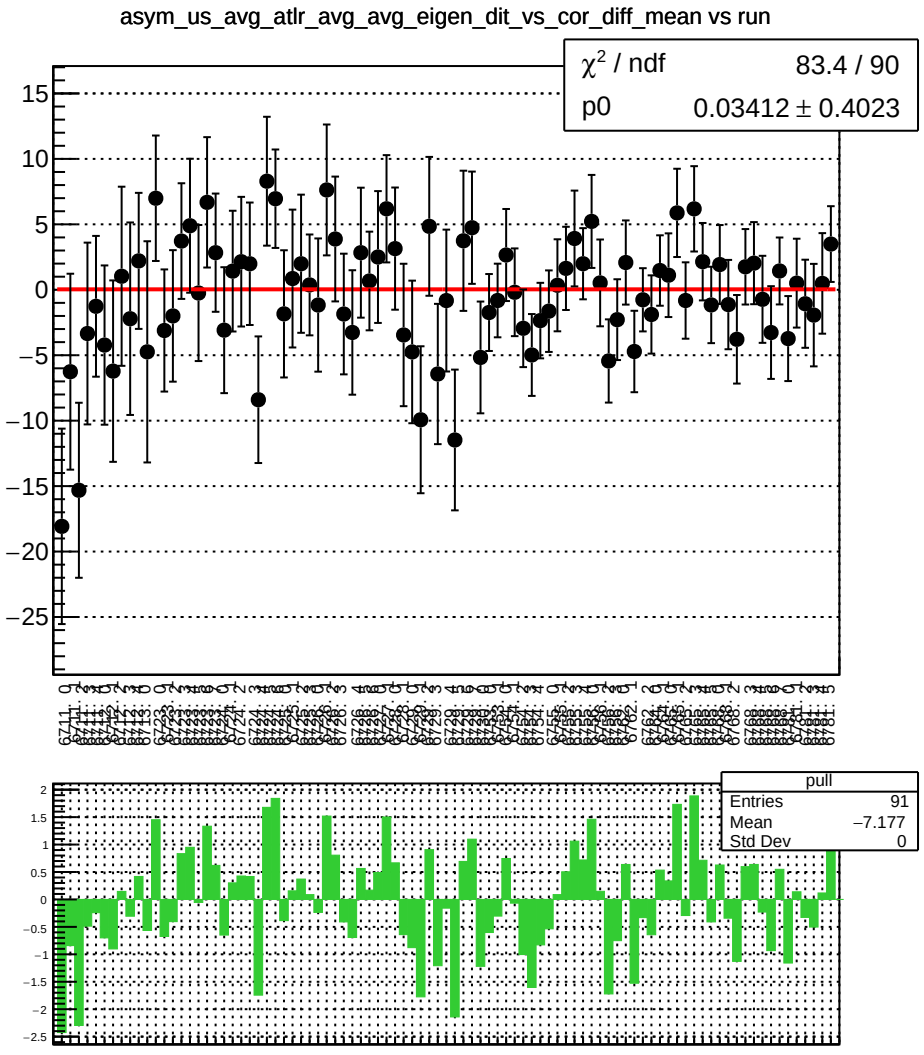

pull1D
Entries 91
Mean −0.03722
Std Dev 0.9566

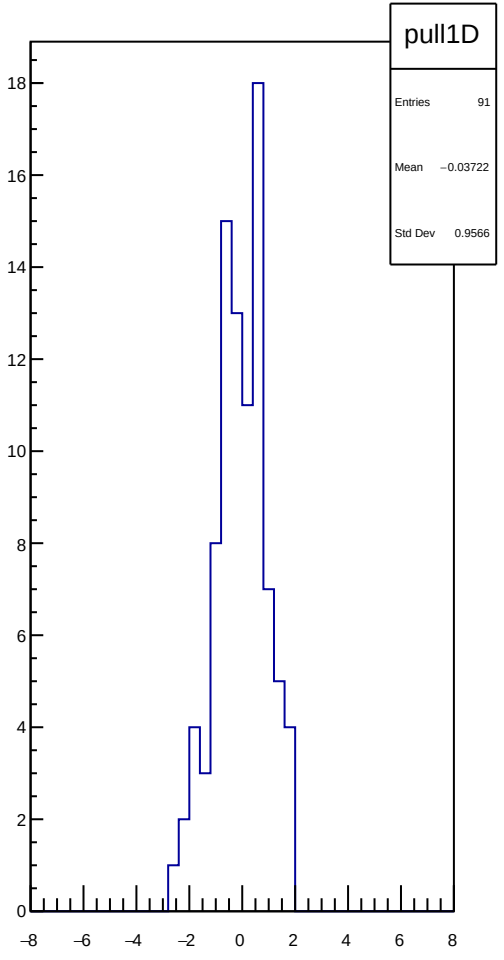

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.192e+05 / 90
p0 369.3 ± 0.2845
800
700
600
500
400
300
200

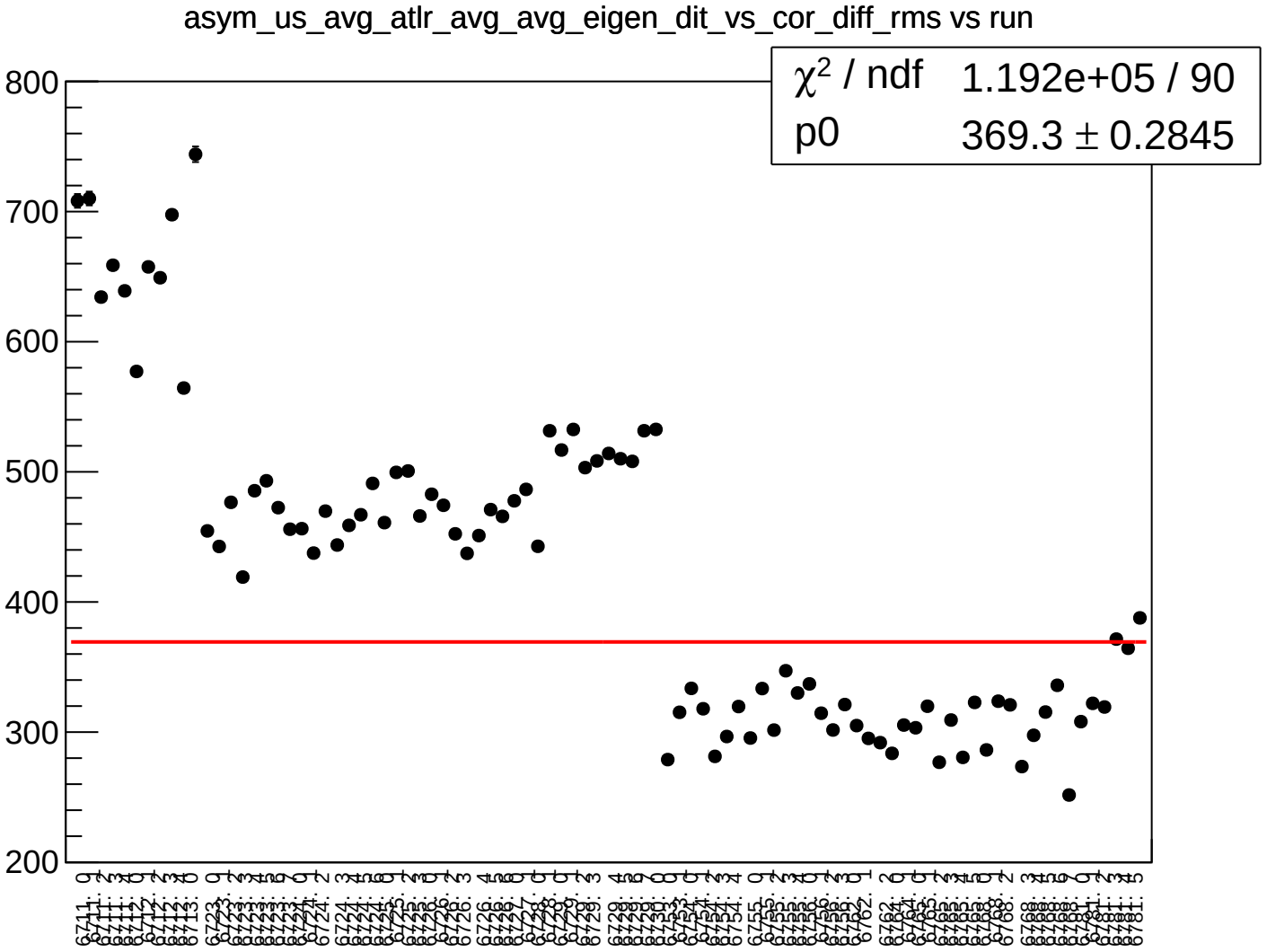

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.6 / 90
p0 8.268e−06 ± 1.212e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 91
Mean −46.38
Std Dev 0
2
1
0
−1
−2

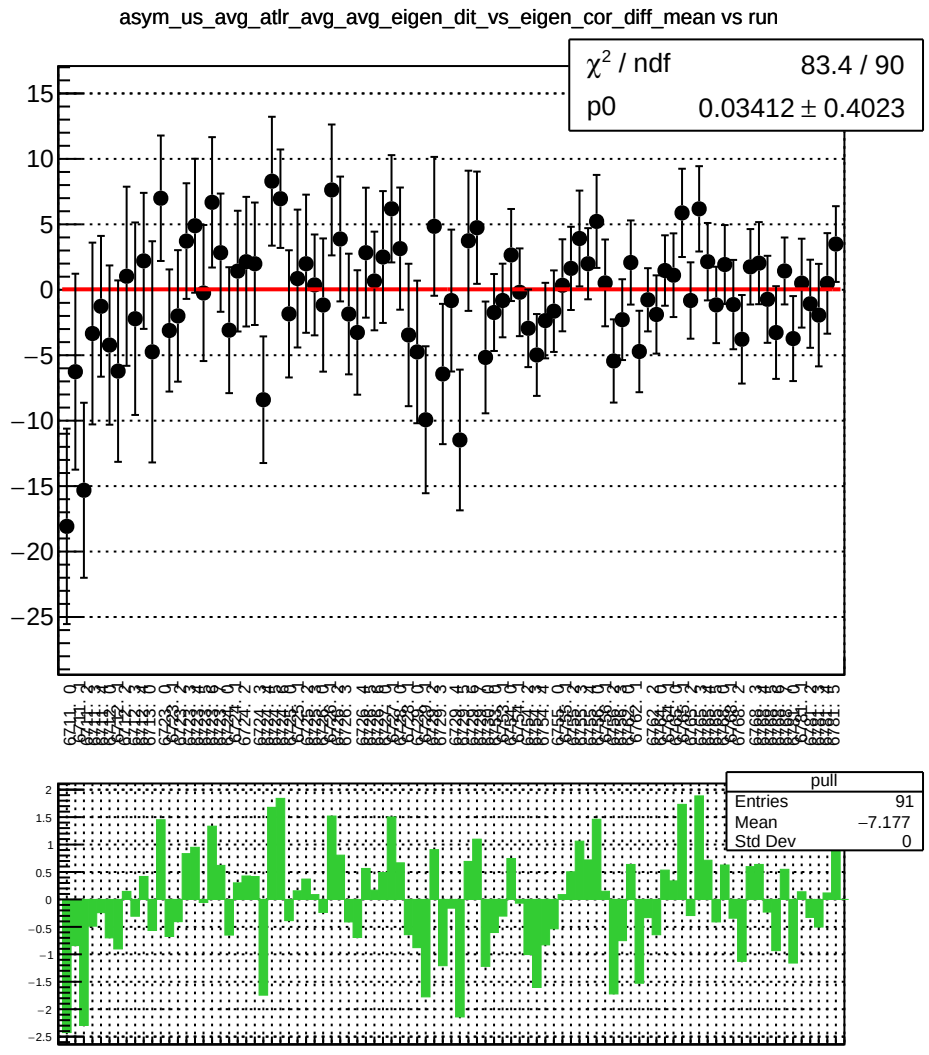

pull1D
Entries 91
Mean −0.04614
Std Dev 1.066
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

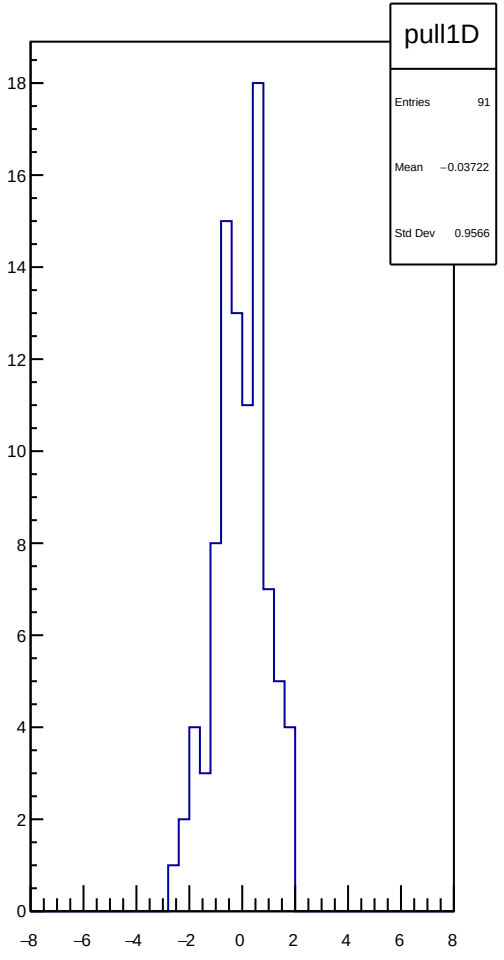

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.141e+05 / 90
p0 0.01081 ± 8.57e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

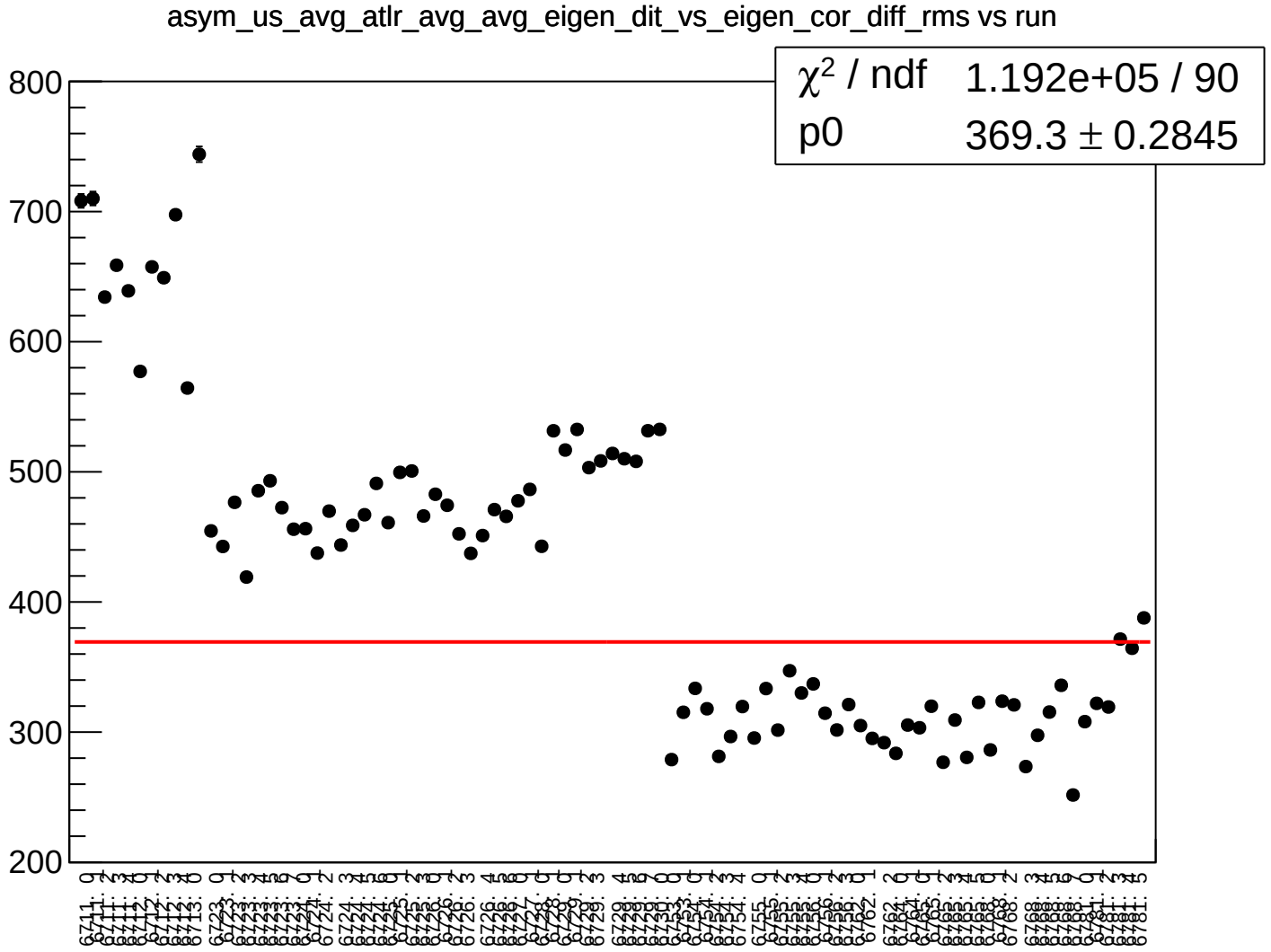

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.4 / 90
p0 0.03412 ± 0.4023
pull
Entries 91
Mean −7.177
Std Dev 0

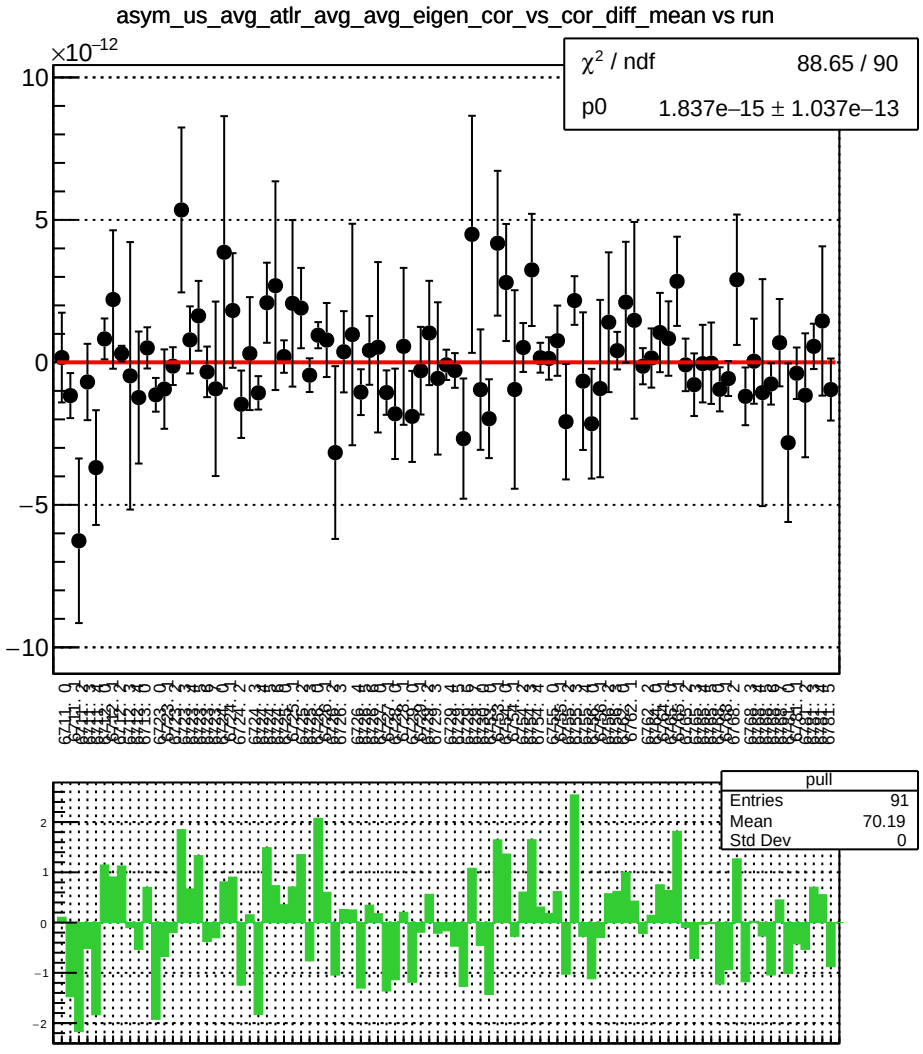

pull1D
Entries 91
Mean −0.03722
Std Dev 0.9566

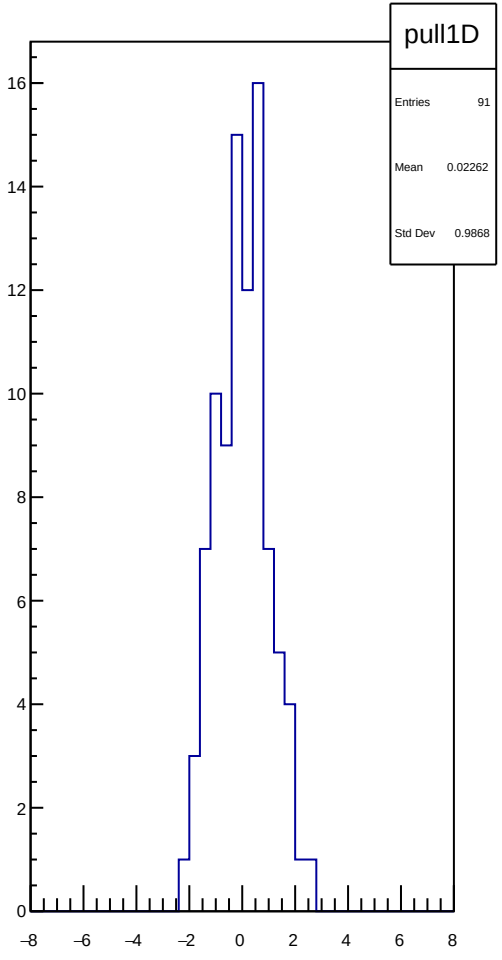

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.192e+05 / 90
p0 369.3 ± 0.2845
800
700
600
500
400
300
200

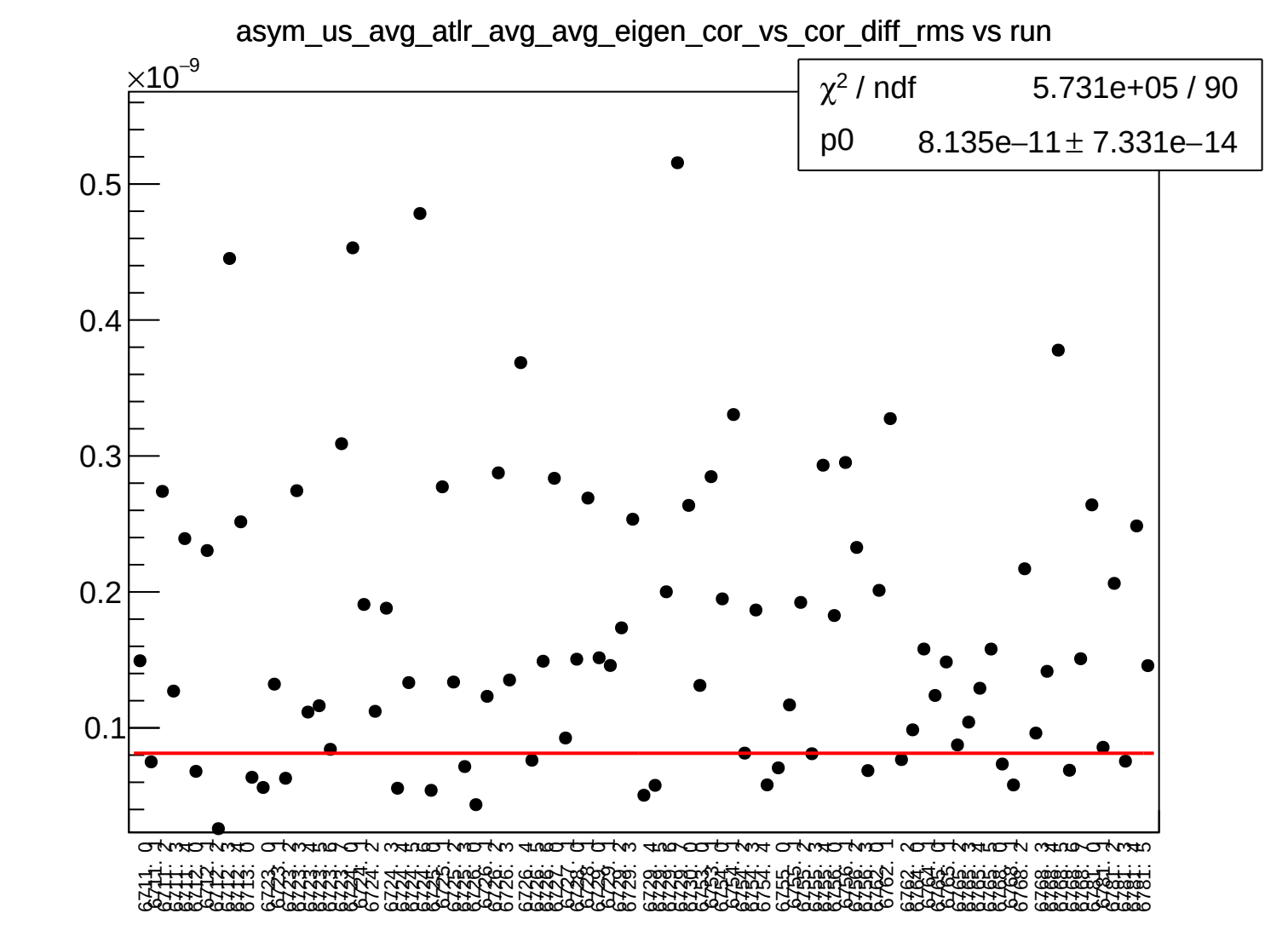

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.4 / 90
p0 0.03412 ± 0.4023
pull
Entries 91
Mean −7.177
Std Dev 0

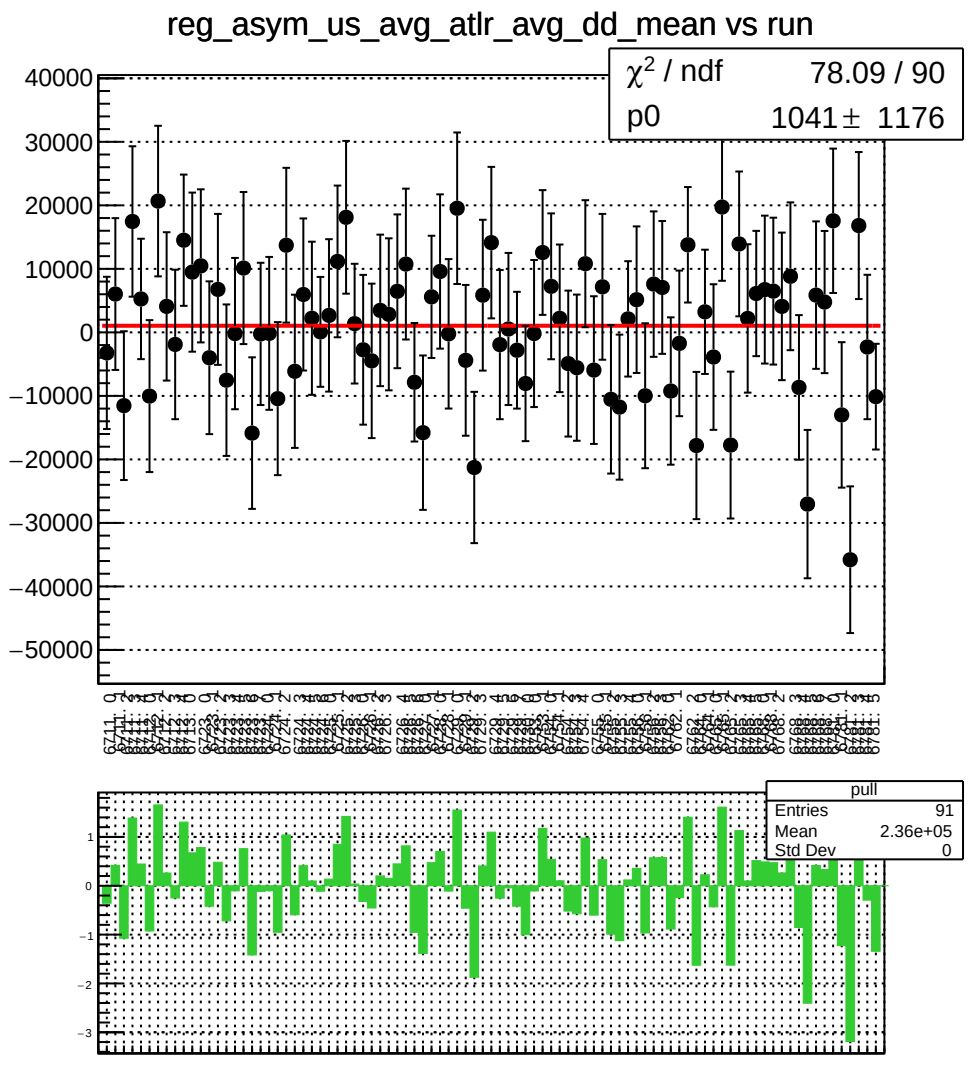

pull1D
Entries 91
Mean −0.03722
Std Dev 0.9566

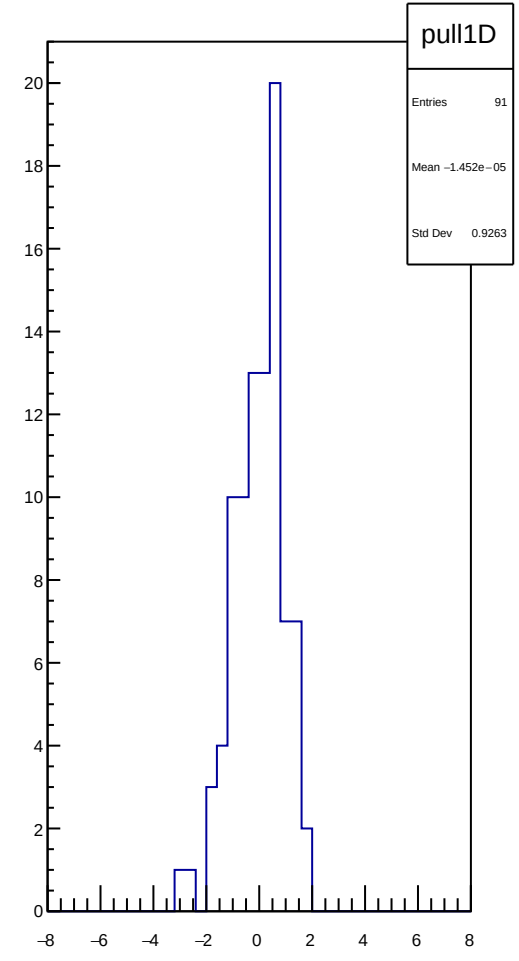

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.192e+05 / 90
p0 369.3 ± 0.2845
800
700
600
500
400
300
200

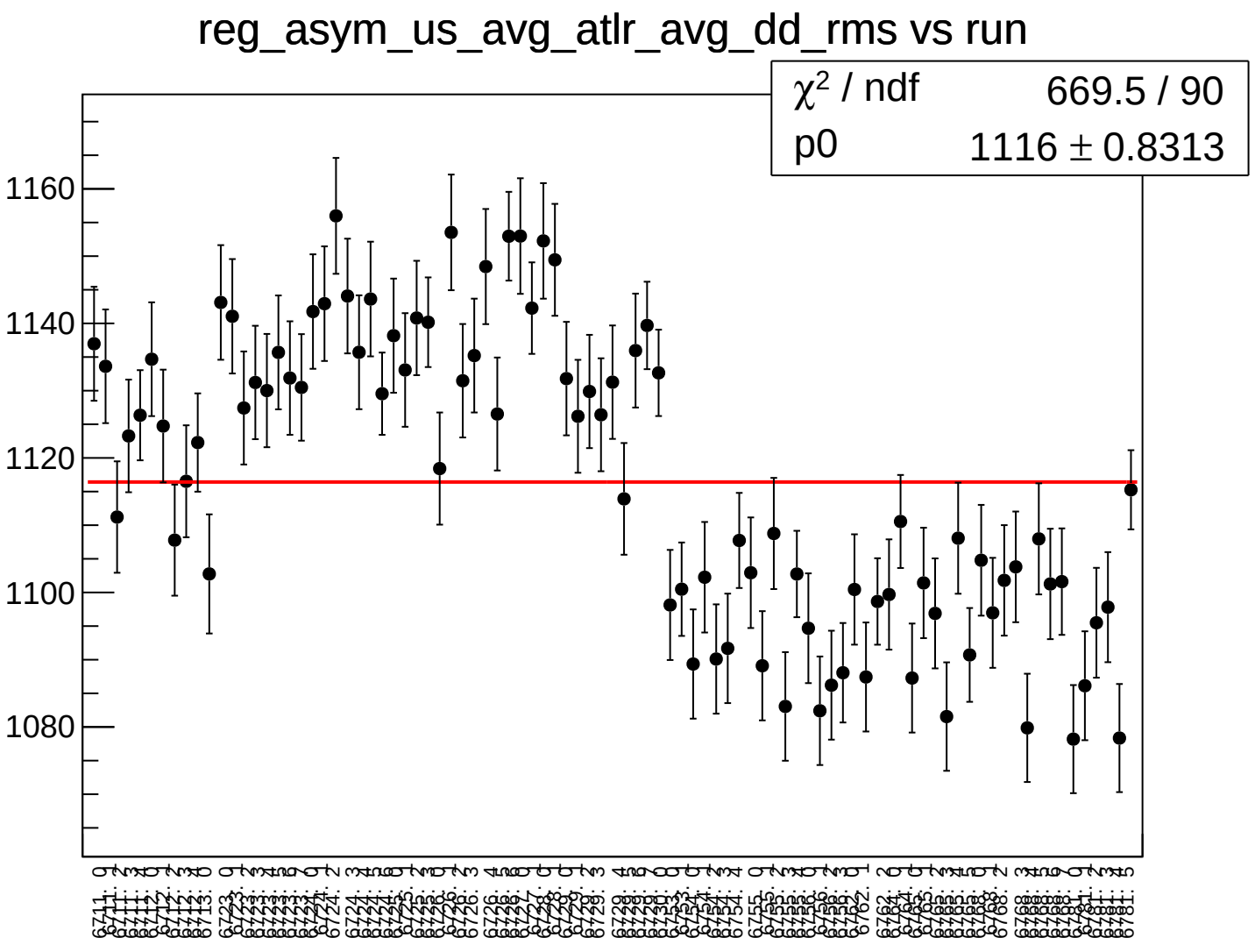

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.65 / 90
p0 1.837e−15 ± 1.037e−13
pull
Entries 91
Mean 70.19
Std Dev 0

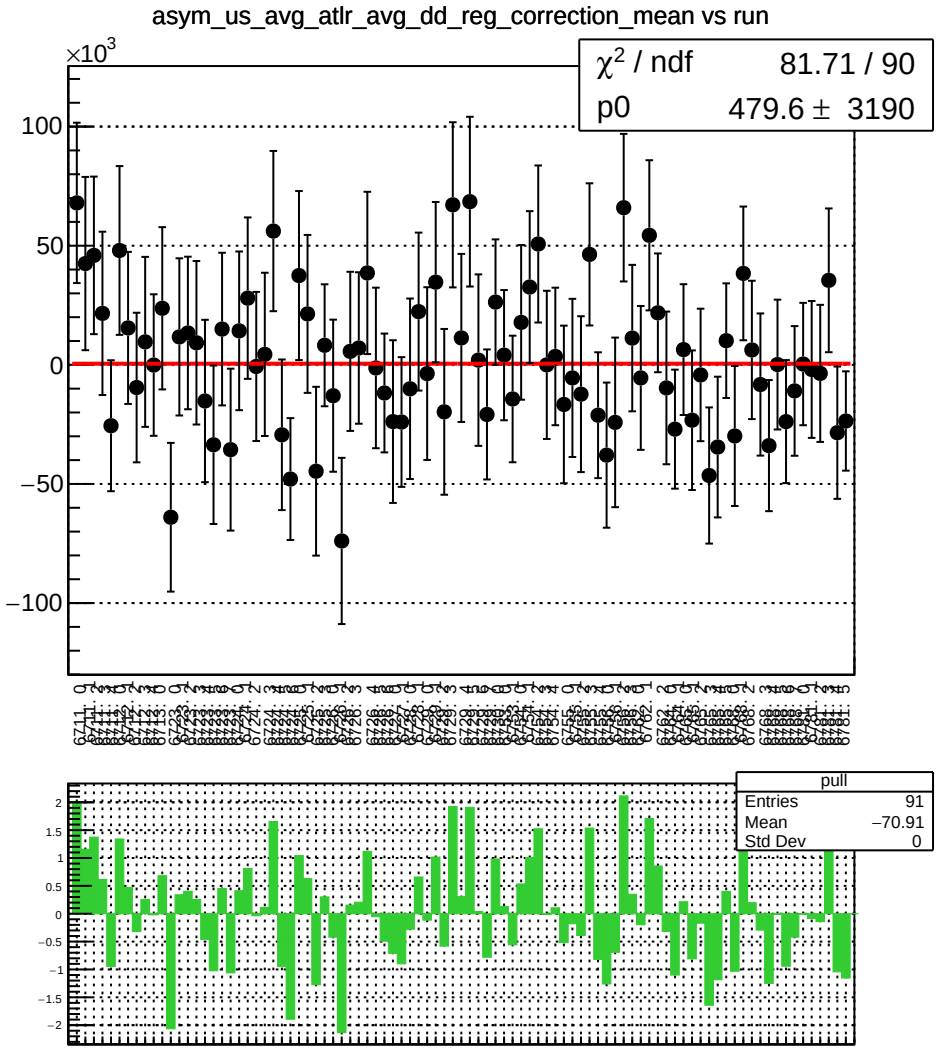

pull1D
Entries 91
Mean 0.02262
Std Dev 0.9868

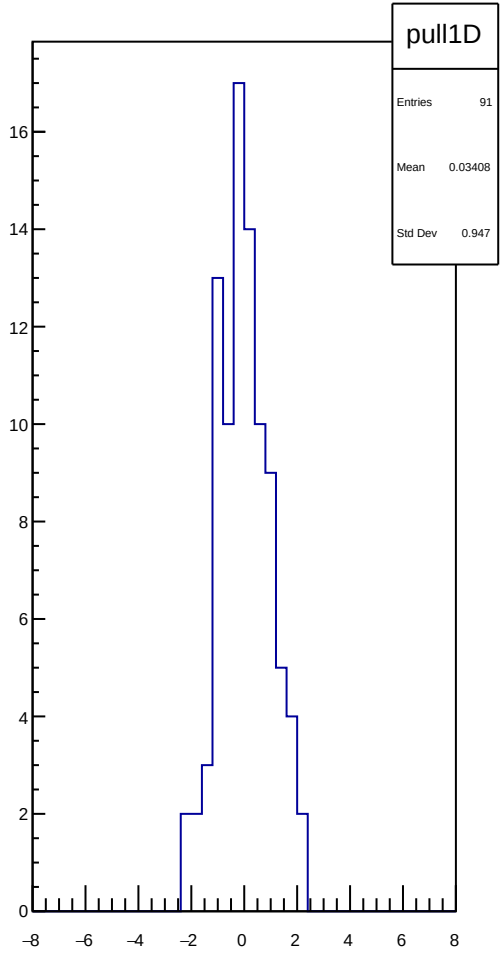

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.731e+05 / 90
p0 8.135e−11 ± 7.331e−14
0.5
0.4
0.3
0.2
0.1

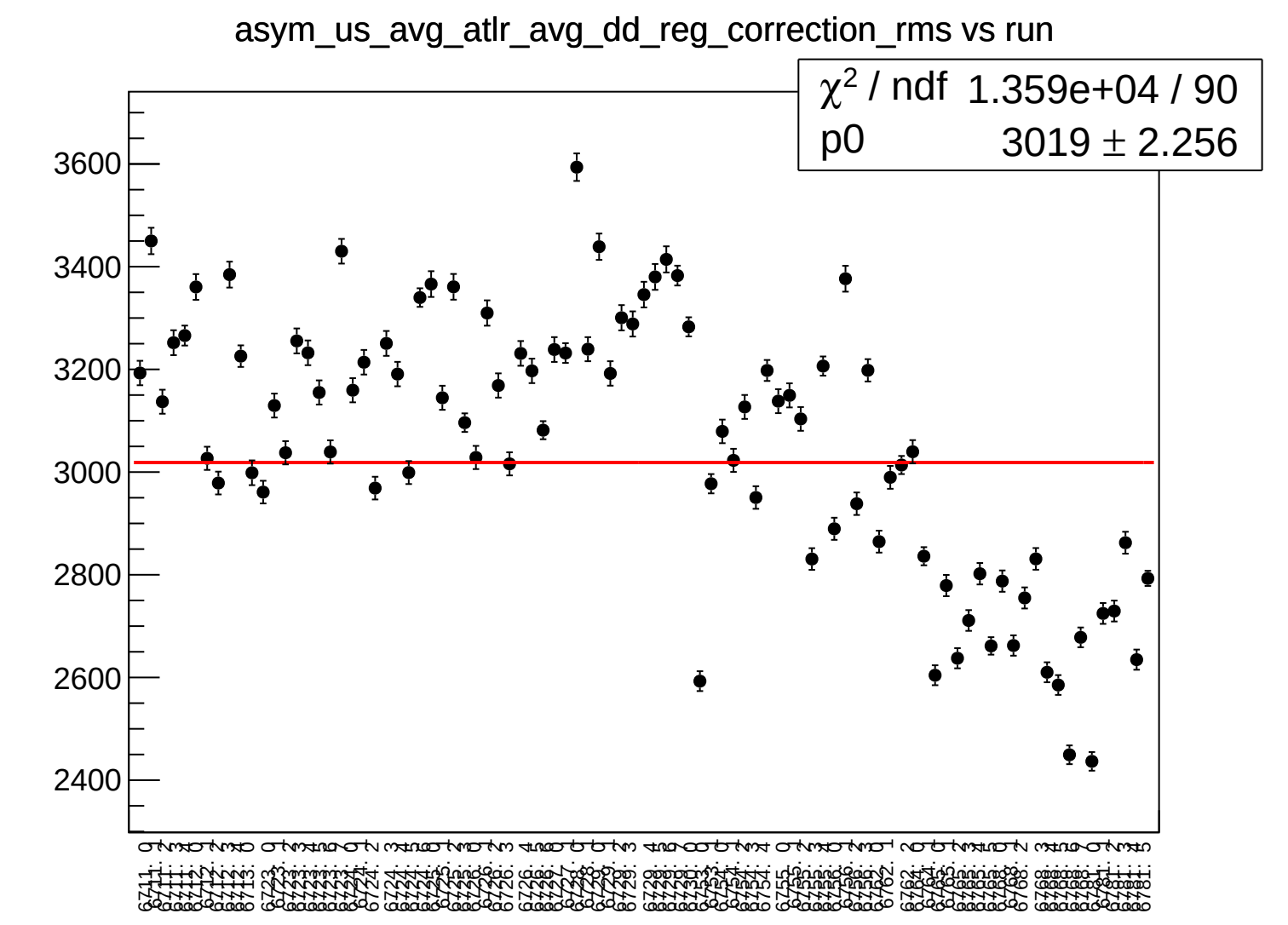

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 78.09 / 90
p0 1041 ± 1176
pull
Entries 91
Mean 2.36e+05
Std Dev 0

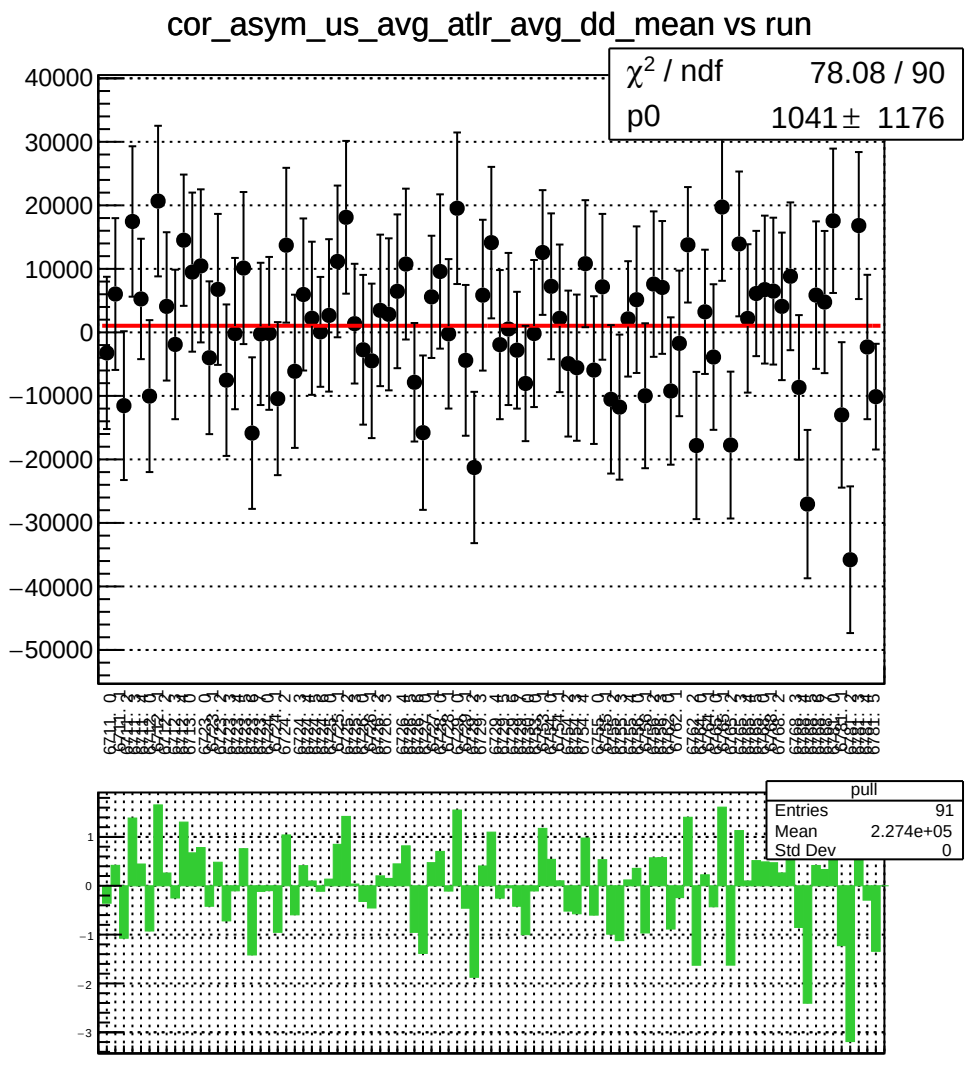

pull1D
Entries 91
Mean −1.452e−05
Std Dev 0.9263

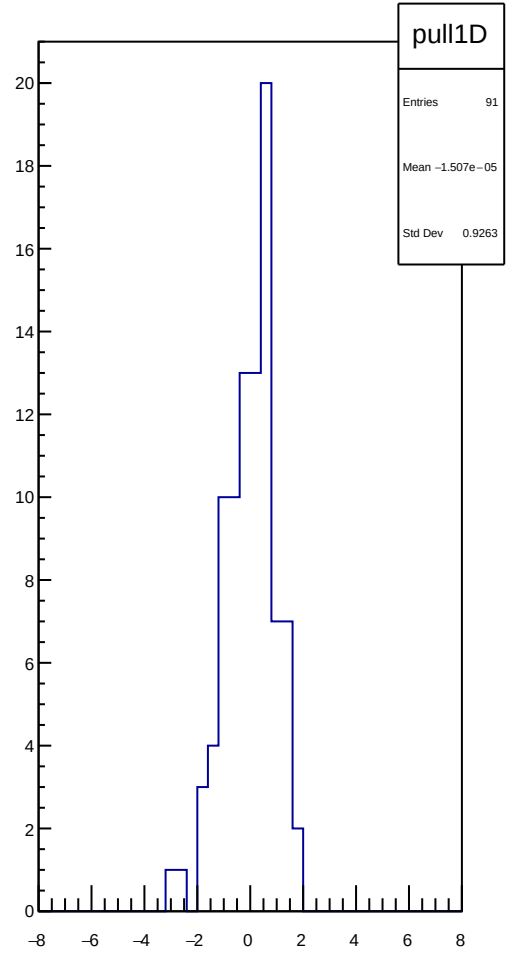

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 669.5 / 90
p0 1116 ± 0.8313
1160
1140
1120
1100
1080

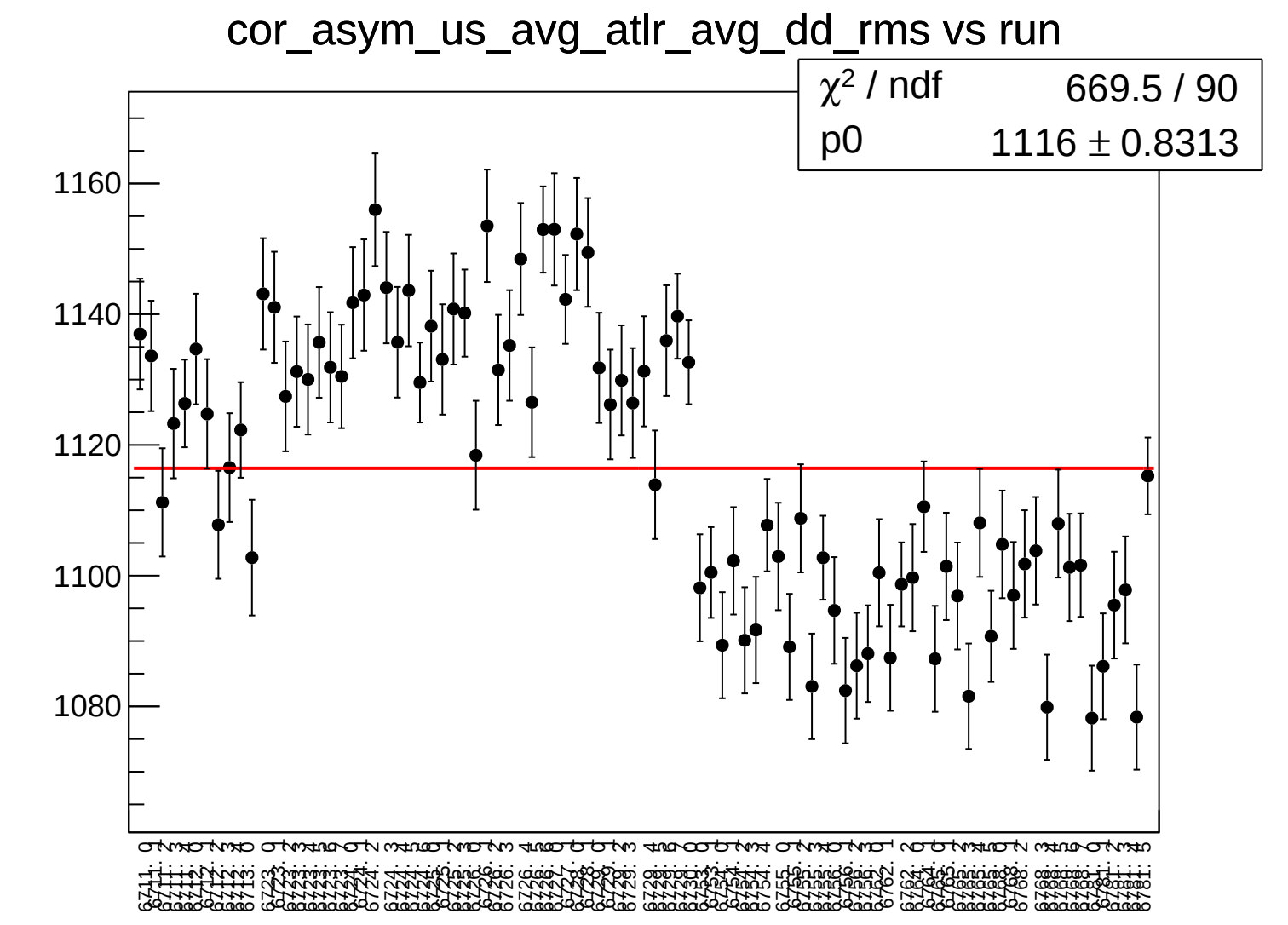

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 81.71 / 90
p0 479.6 ± 3190
100
50
0
−50
−100
pull
Entries 91
Mean −70.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

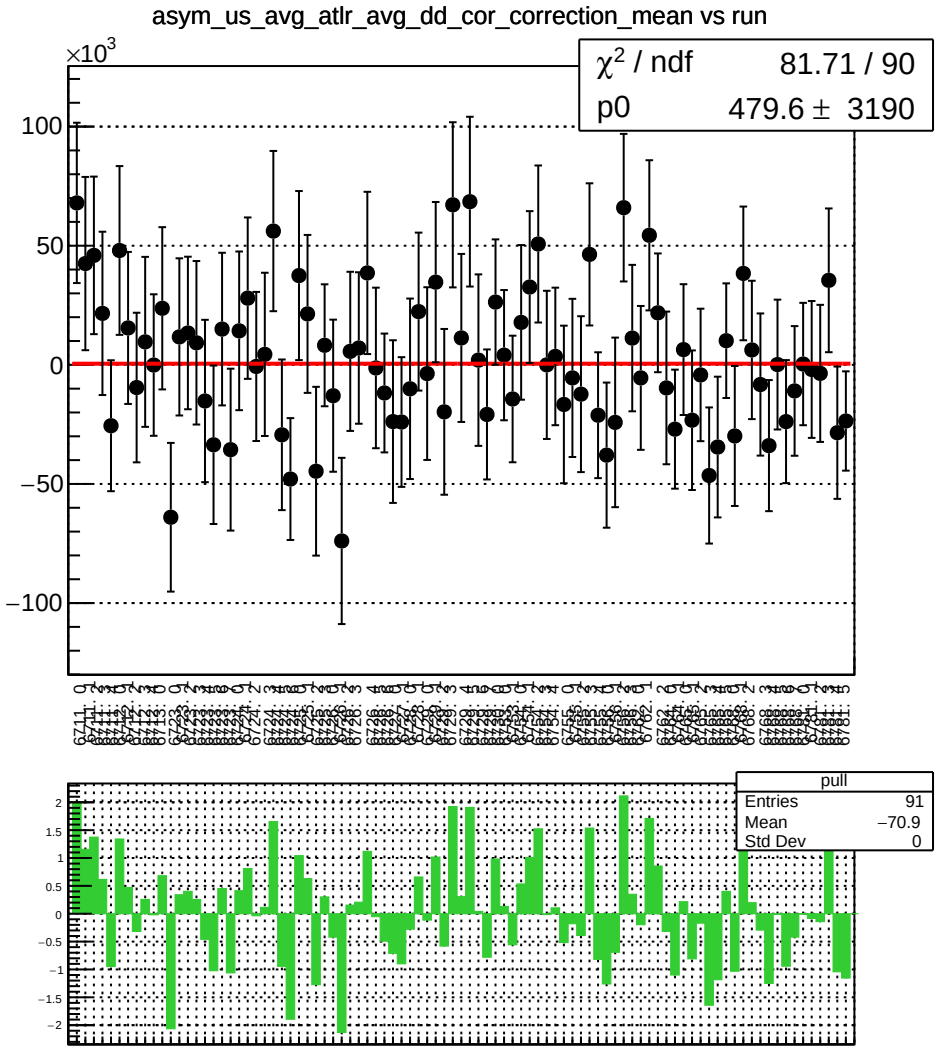

pull1D
Entries 91
Mean 0.03408
Std Dev 0.947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

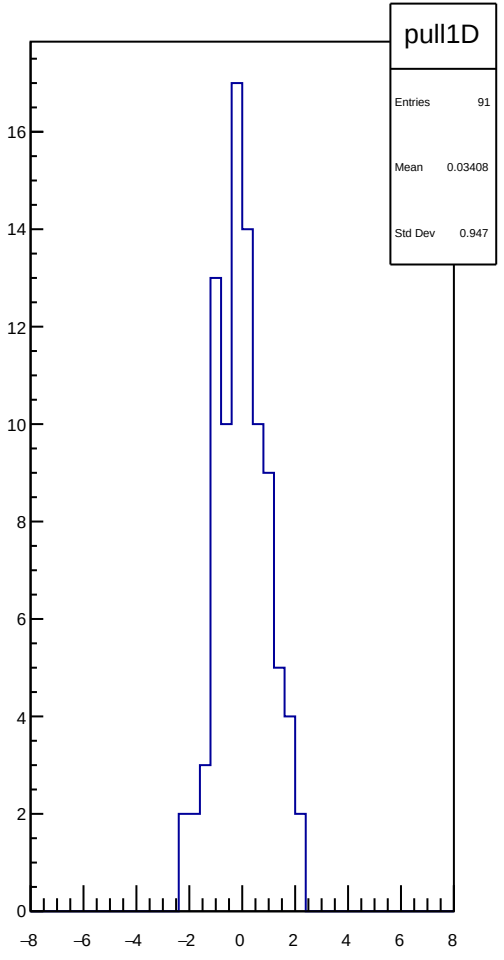

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.359e+04 / 90
p0 3019 ± 2.256
3600
3400
3200
3000
2800
2600
2400

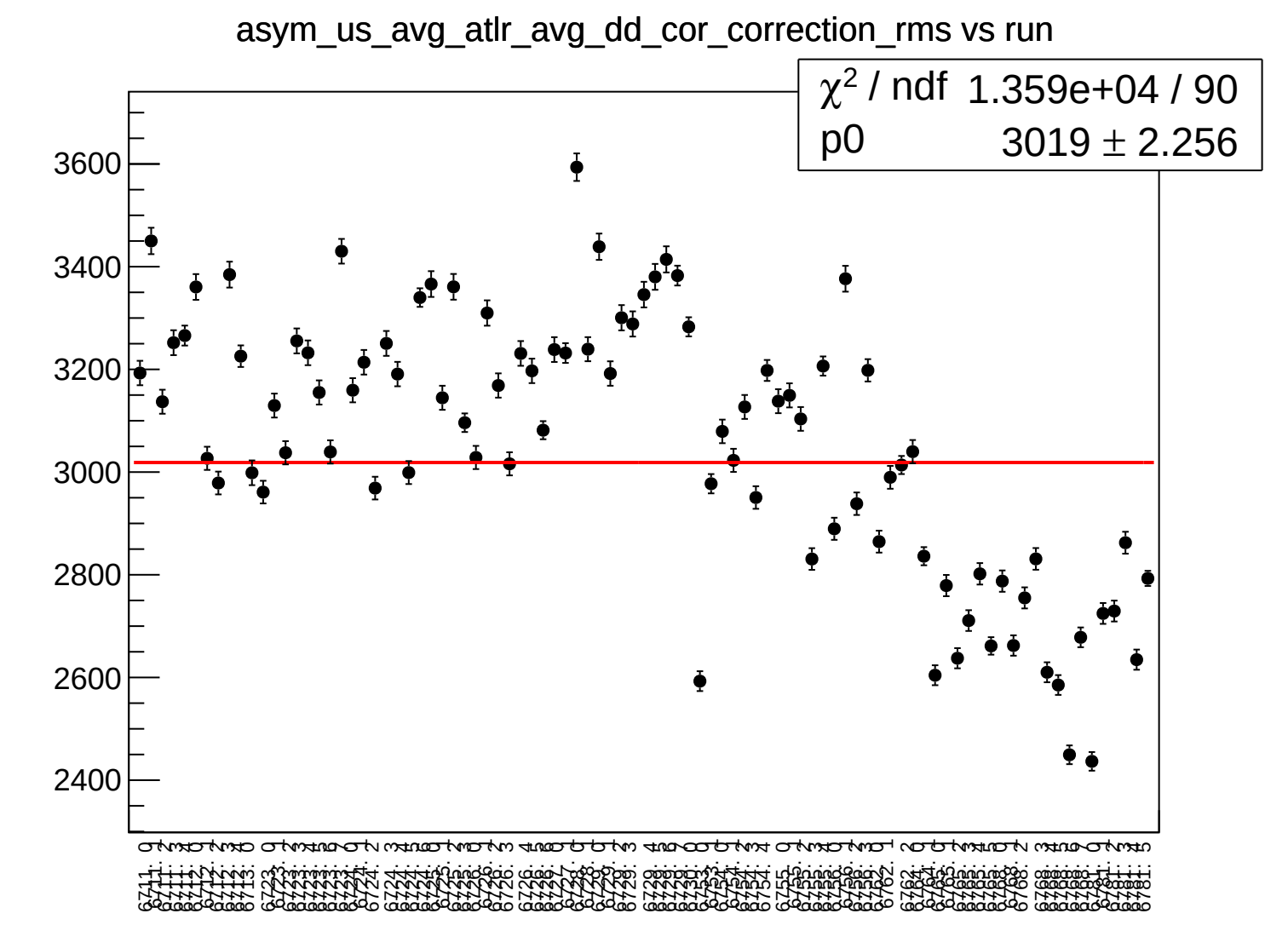

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 78.08 / 90
p0 1041 ± 1176
pull
Entries 91
Mean 2.274e+05
Std Dev 0

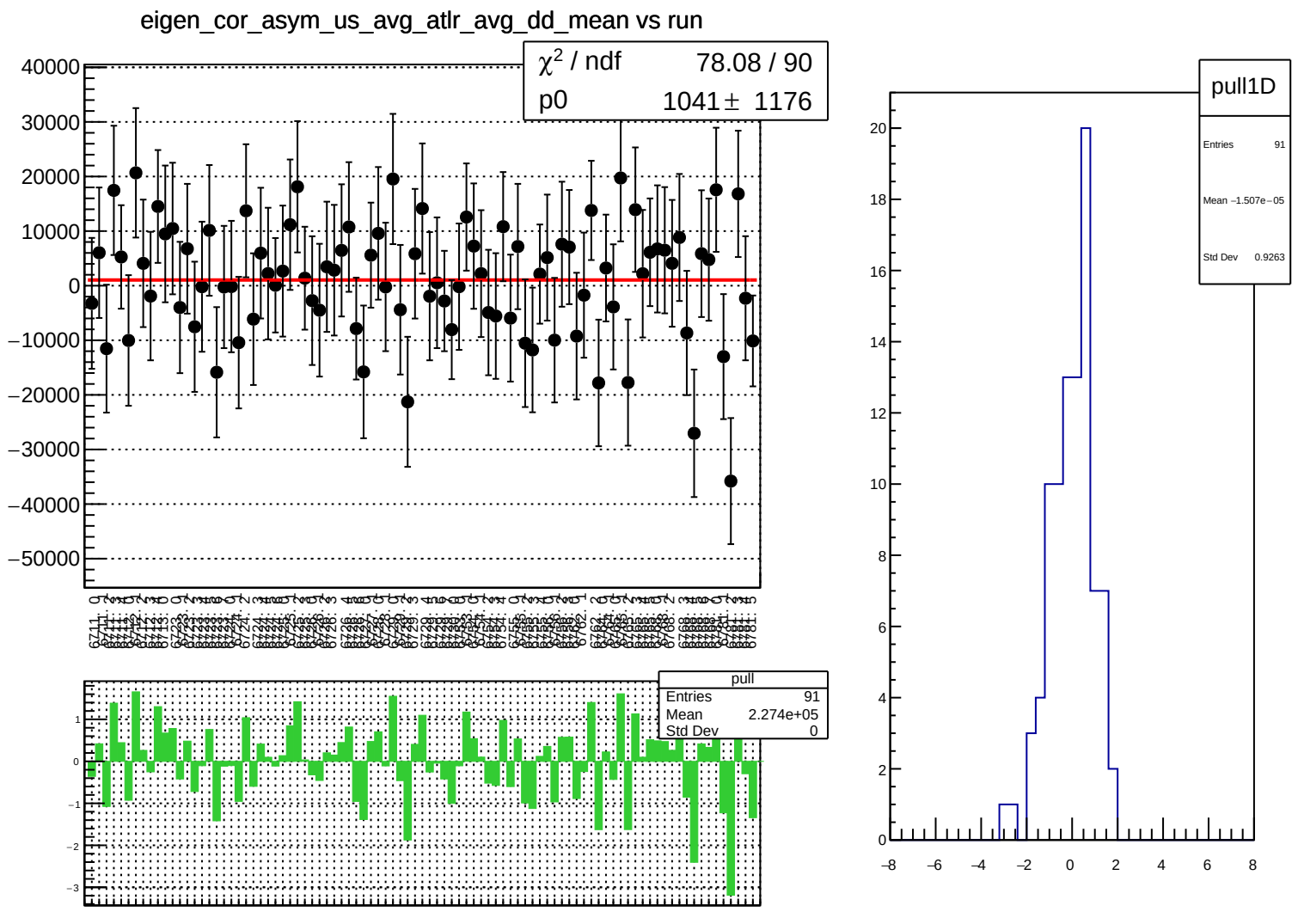

pull1D
Entries 91
Mean −1.507e−05
Std Dev 0.9263

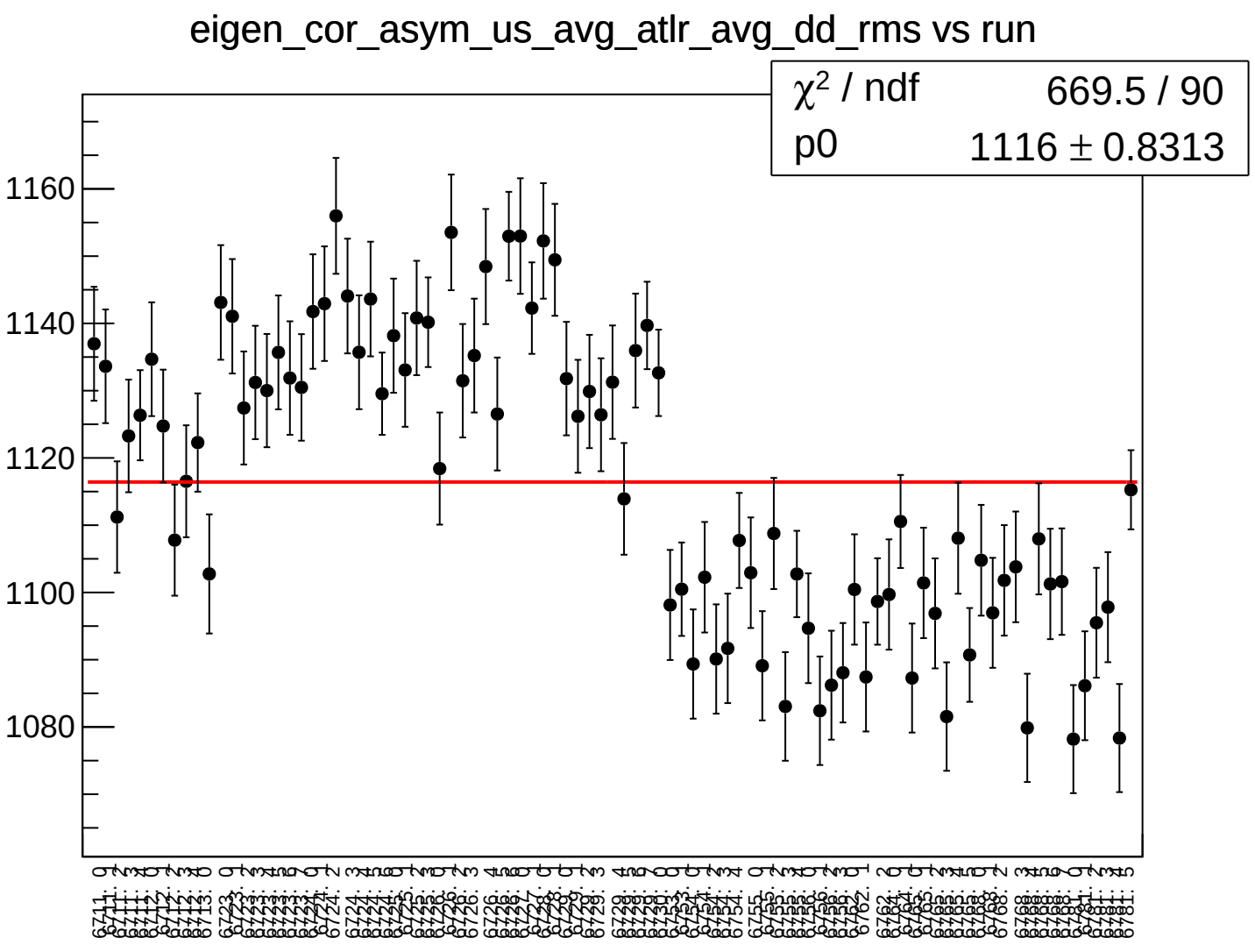

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 669.5 / 90
p0 1116 ± 0.8313
1160
1140
1120
1100
1080

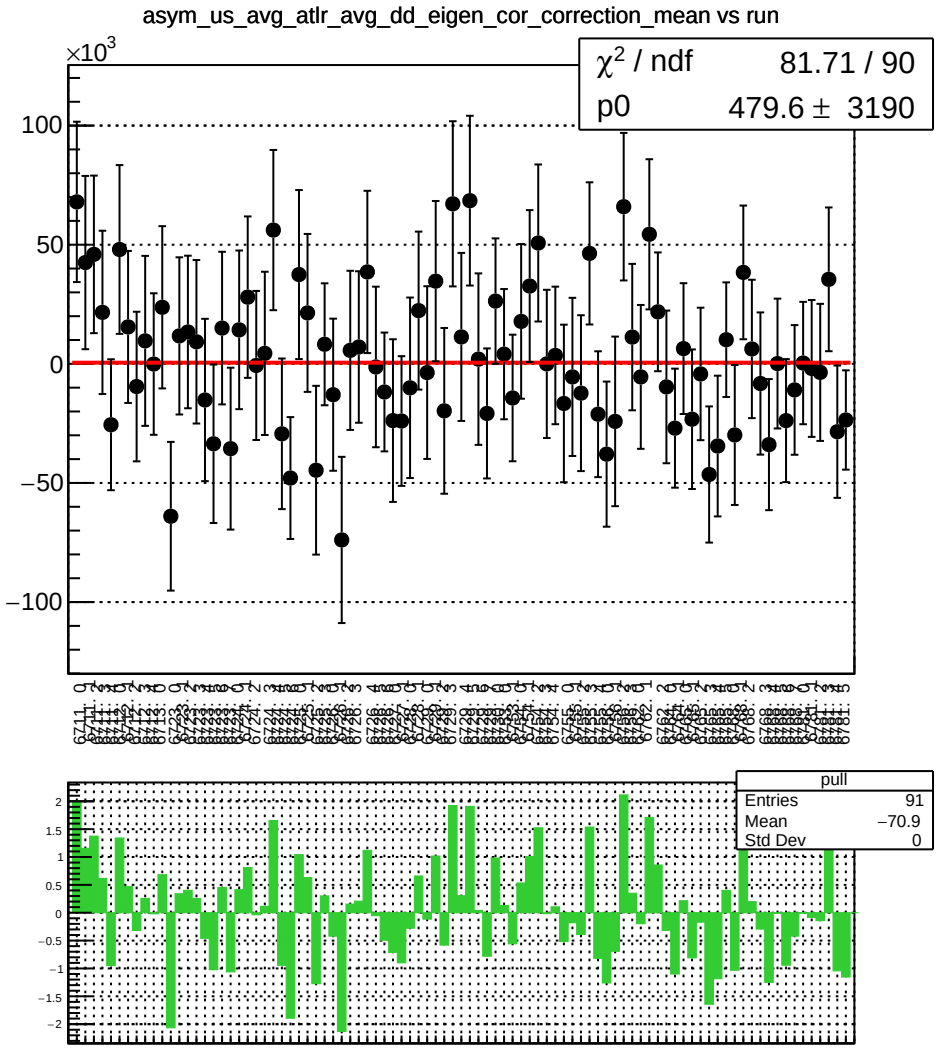

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 81.71 / 90
p0 479.6 ± 3190
100
50
0
−50
−100
pull
Entries 91
Mean −70.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

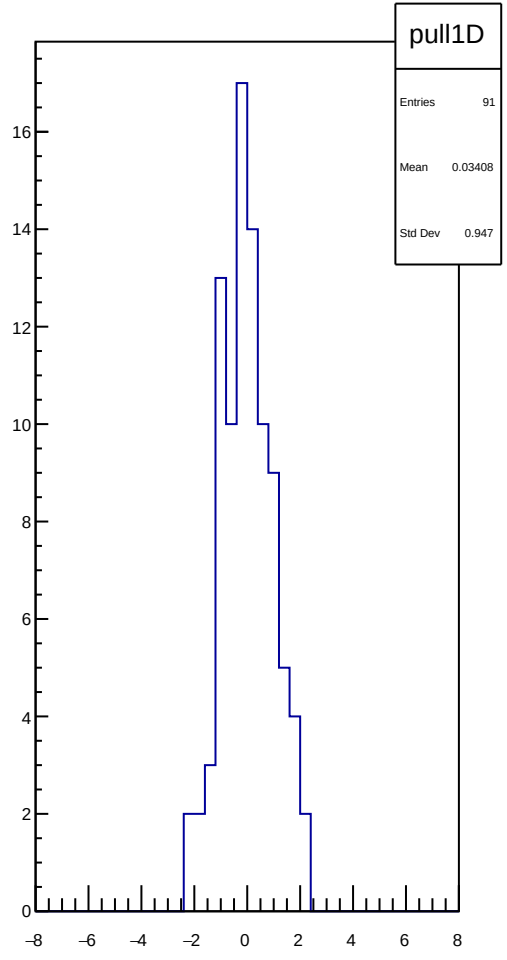

pull1D
Entries 91
Mean 0.03408
Std Dev 0.947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

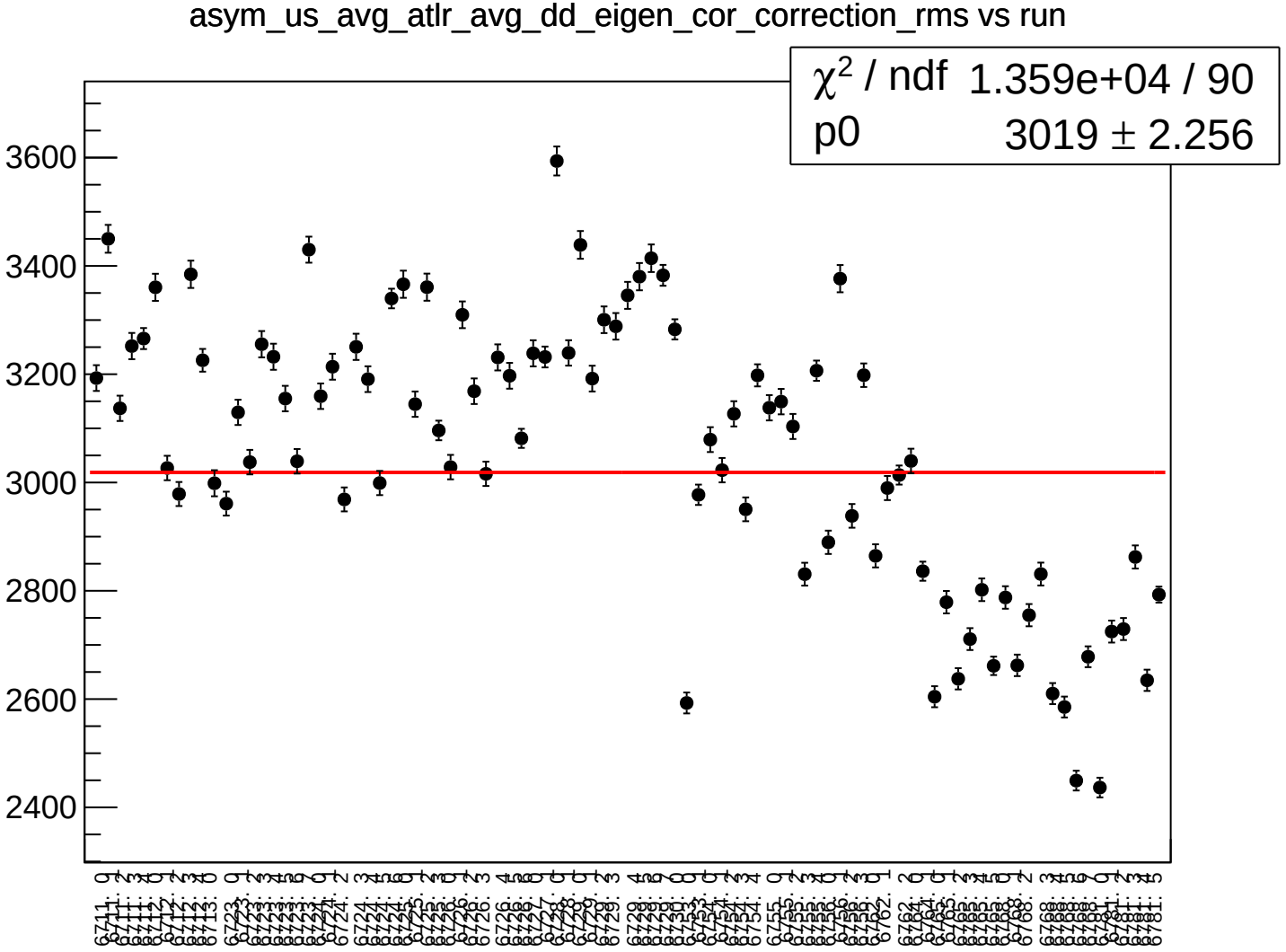

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.359e+04 / 90
p0 3019 ± 2.256
3600
3400
3200
3000
2800
2600
2400

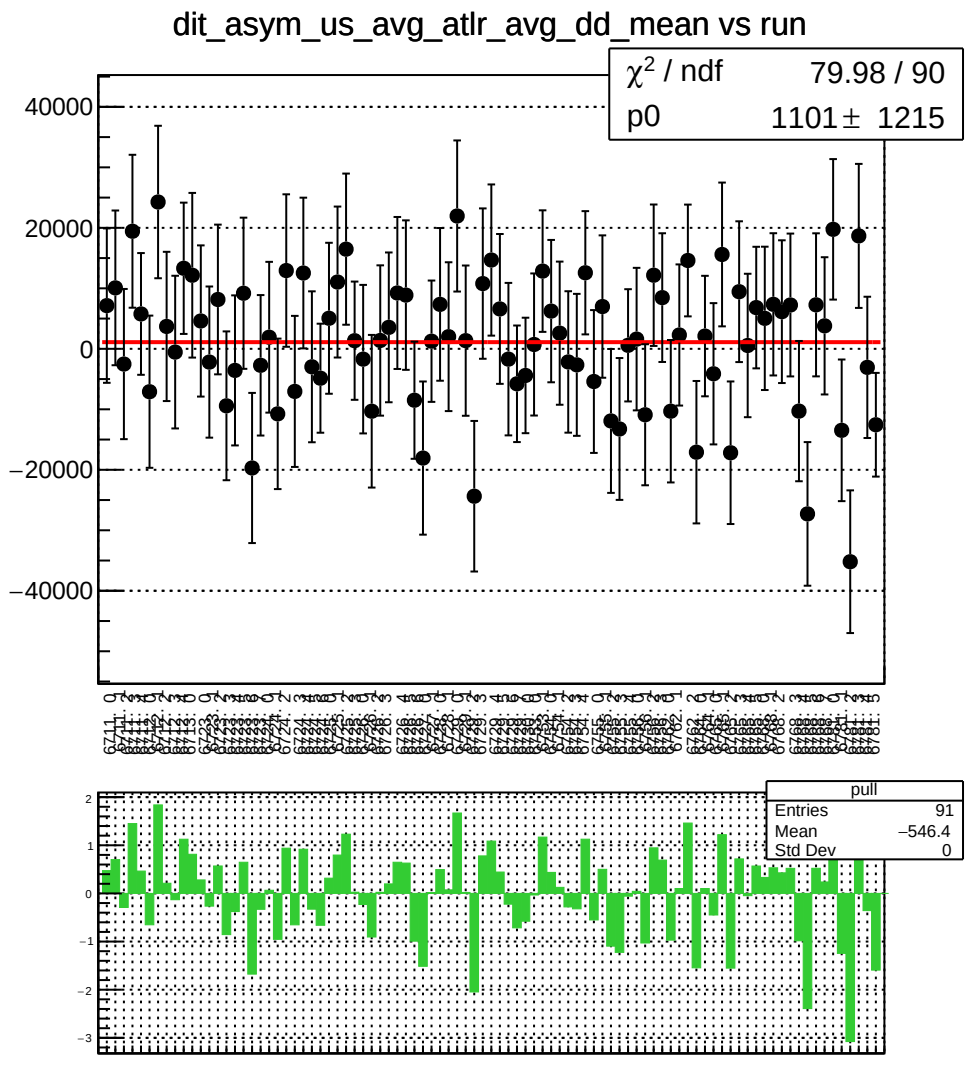

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 78.08 / 90
p0 1041 ± 1176
pull
Entries 91
Mean 2.274e+05
Std Dev 0
pull1D
Entries 91
Mean −1.507e−05
Std Dev 0.9263

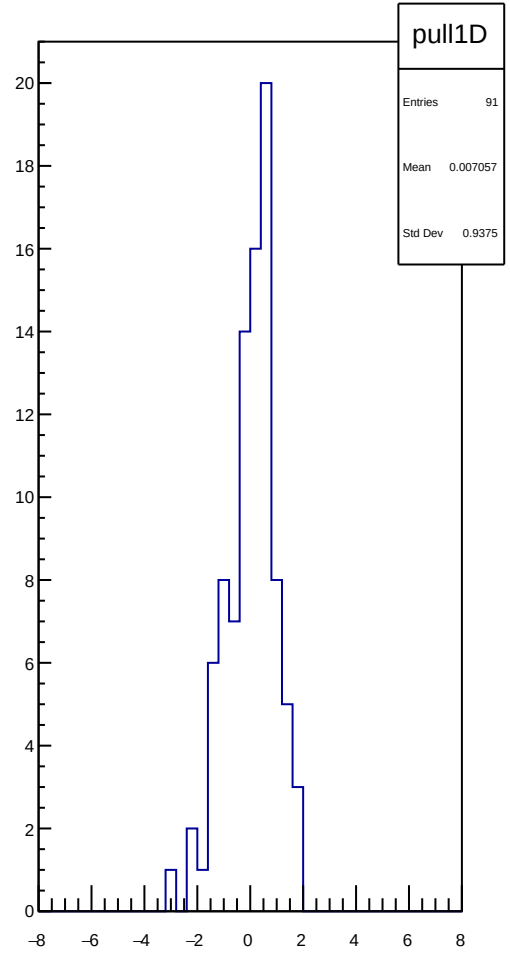

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 669.5 / 90
p0 1116 ± 0.8313
1160
1140
1120
1100
1080

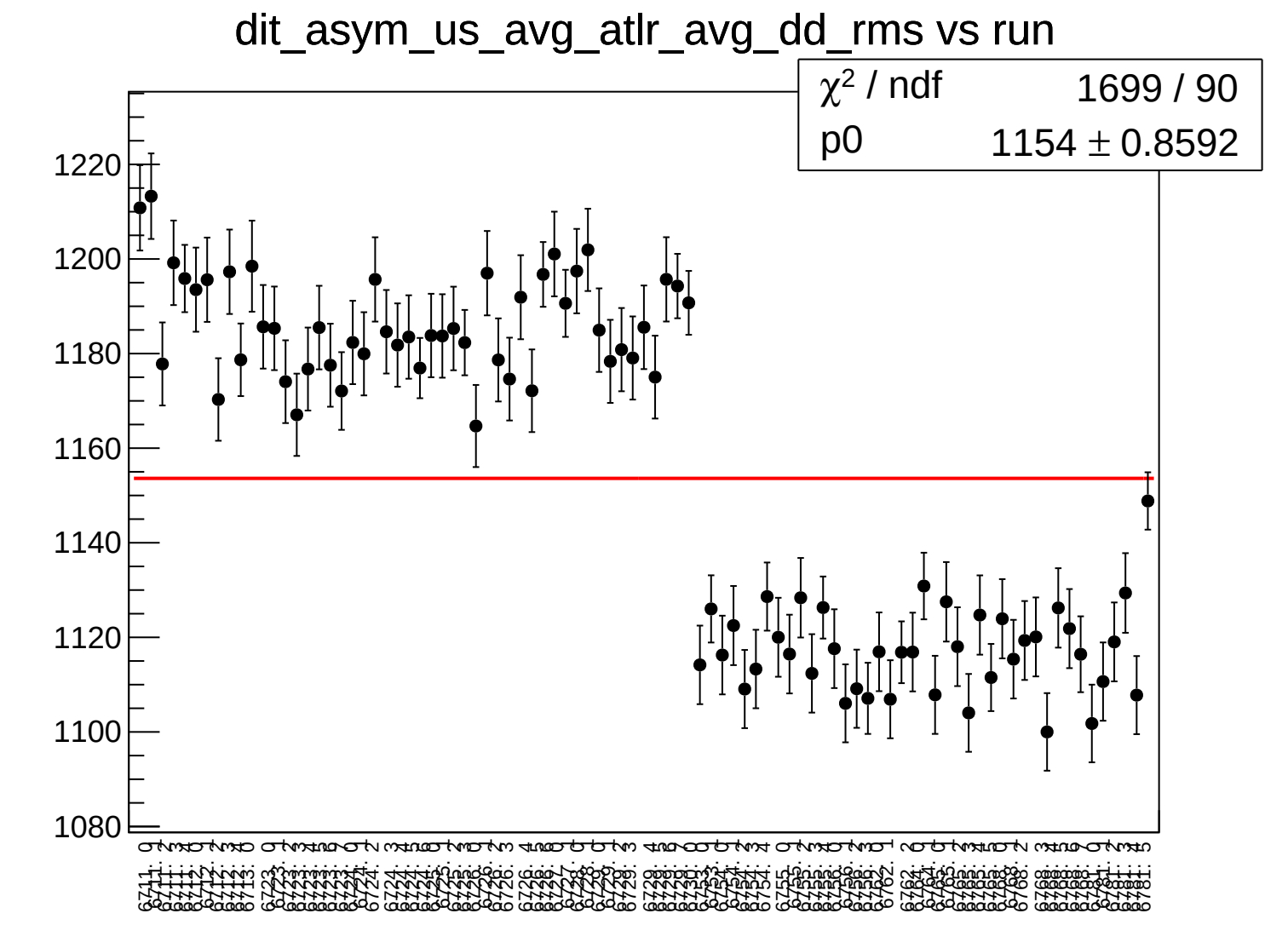

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 81.71 / 90
p0 479.6 ± 3190
100
50
0
−50
−100
pull
Entries 91
Mean −70.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

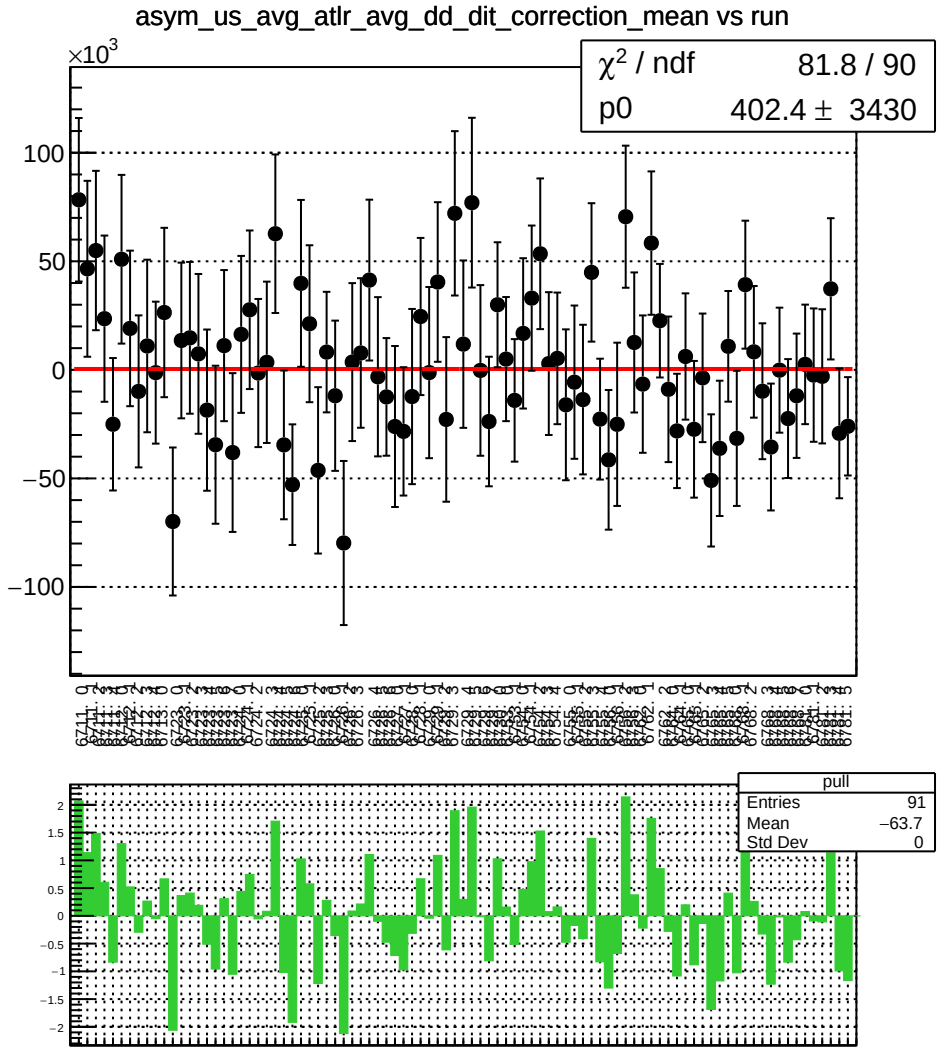

pull1D
Entries 91
Mean 0.03408
Std Dev 0.947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

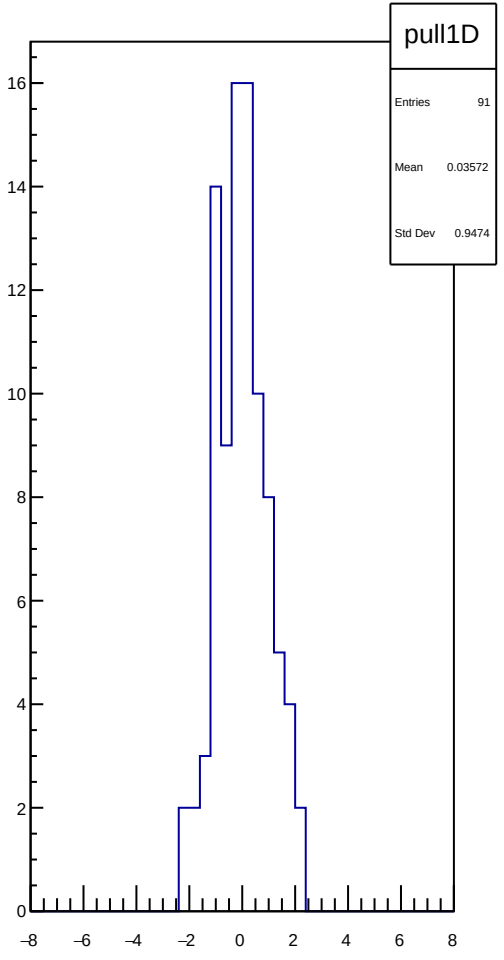

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.359e+04 / 90
p0 3019 ± 2.256
3600
3400
3200
3000
2800
2600
2400

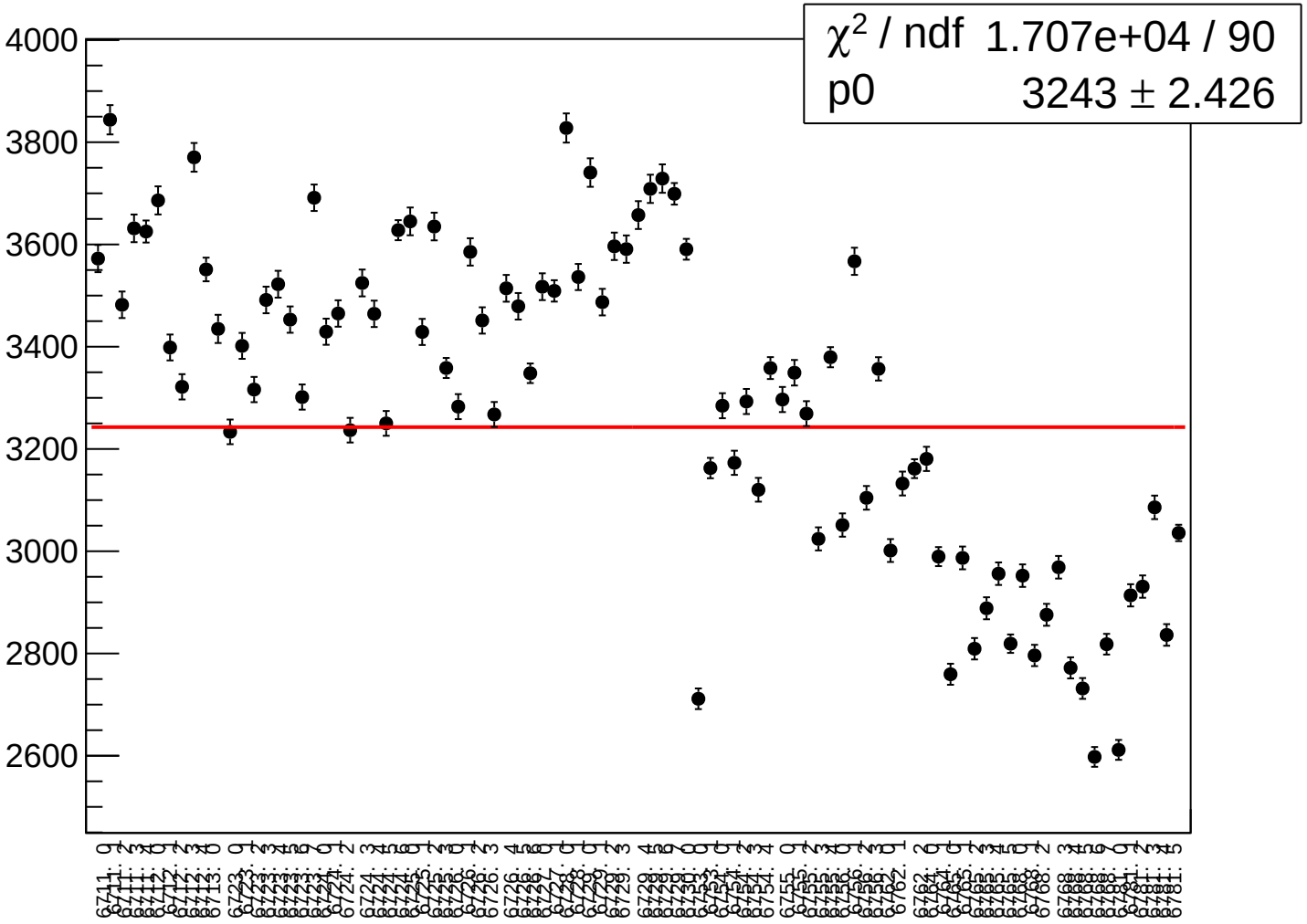

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 79.98 / 90
p0 1101 ± 1215
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −546.4
Std Dev 0
2
1
0
−1
−2
−3

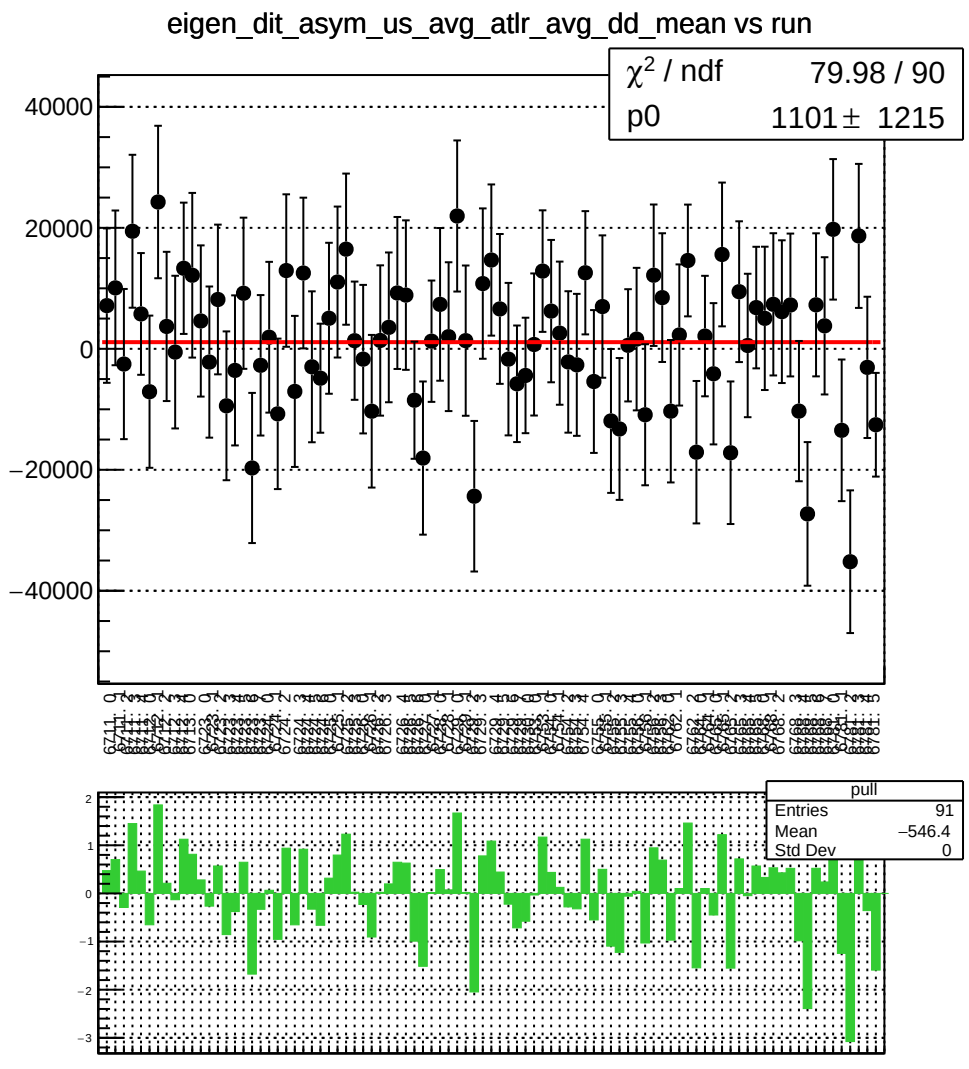

pull1D
Entries 91
Mean 0.007057
Std Dev 0.9375
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

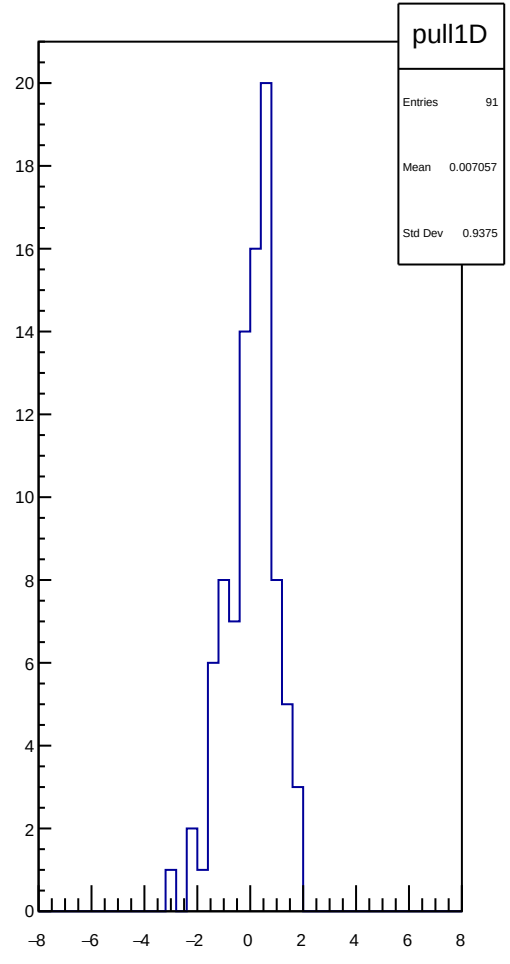

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1699 / 90
p0 1154 ± 0.8592
1220
1200
1180
1160
1140
1120
1100
1080

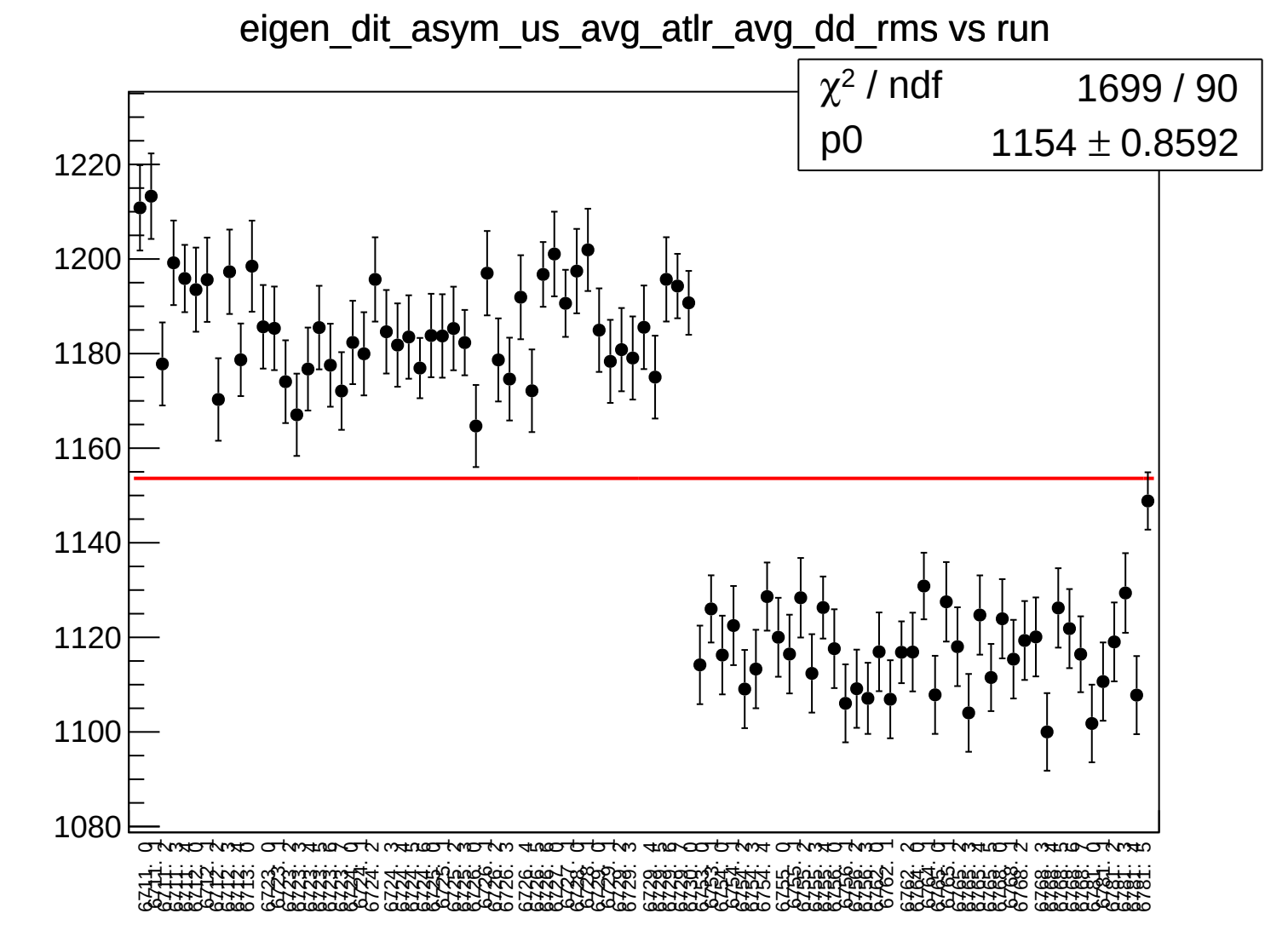

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 81.8 / 90
p0 402.4 ± 3430
100
50
0
−50
−100
pull
Entries 91
Mean −63.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

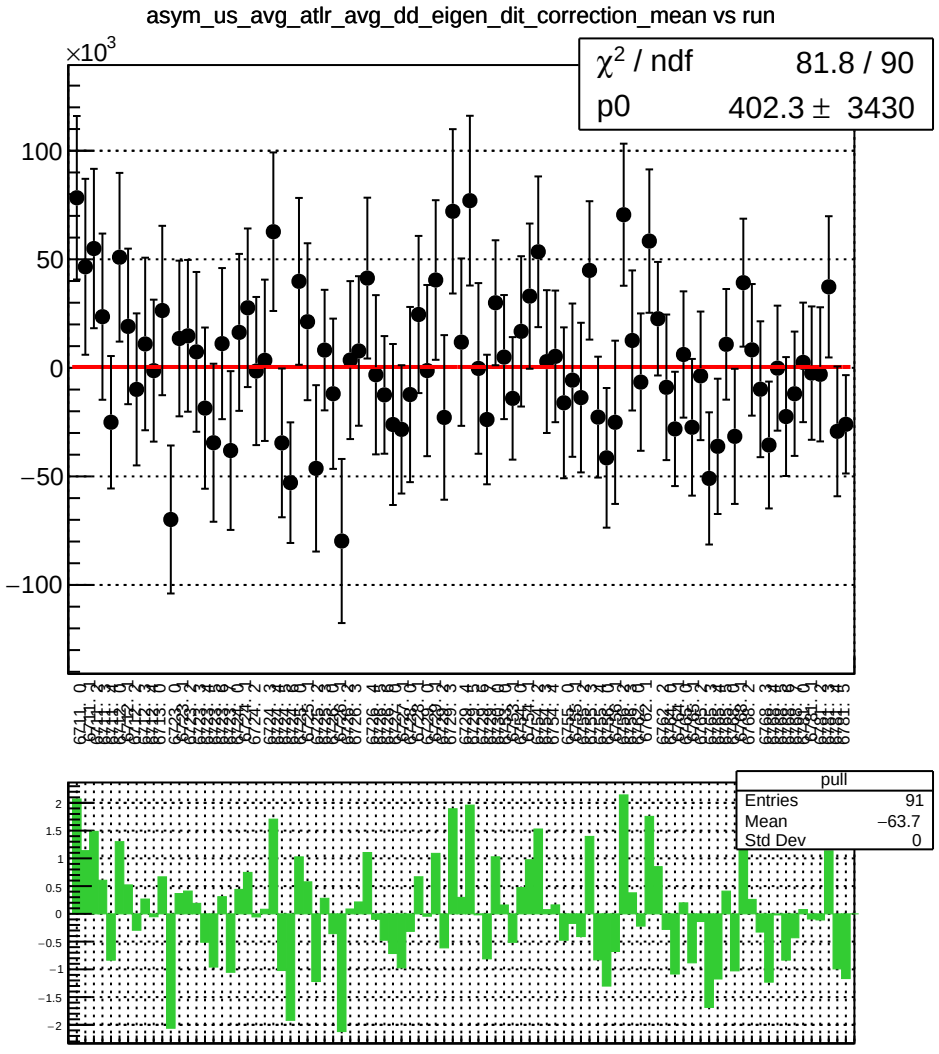

pull1D
Entries 91
Mean 0.03572
Std Dev 0.9474
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

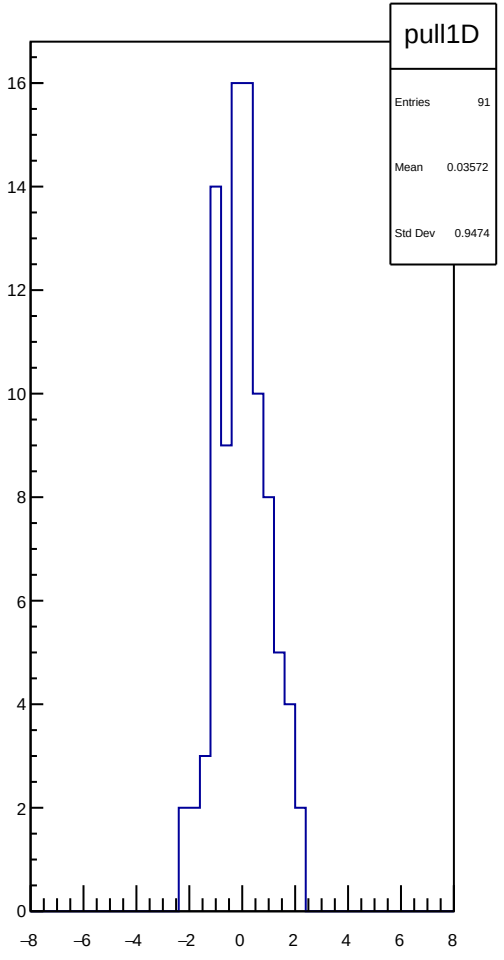

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.707e+04 / 90
p0 3243 ± 2.426
4000
3800
3600
3400
3200
3000
2800
2600

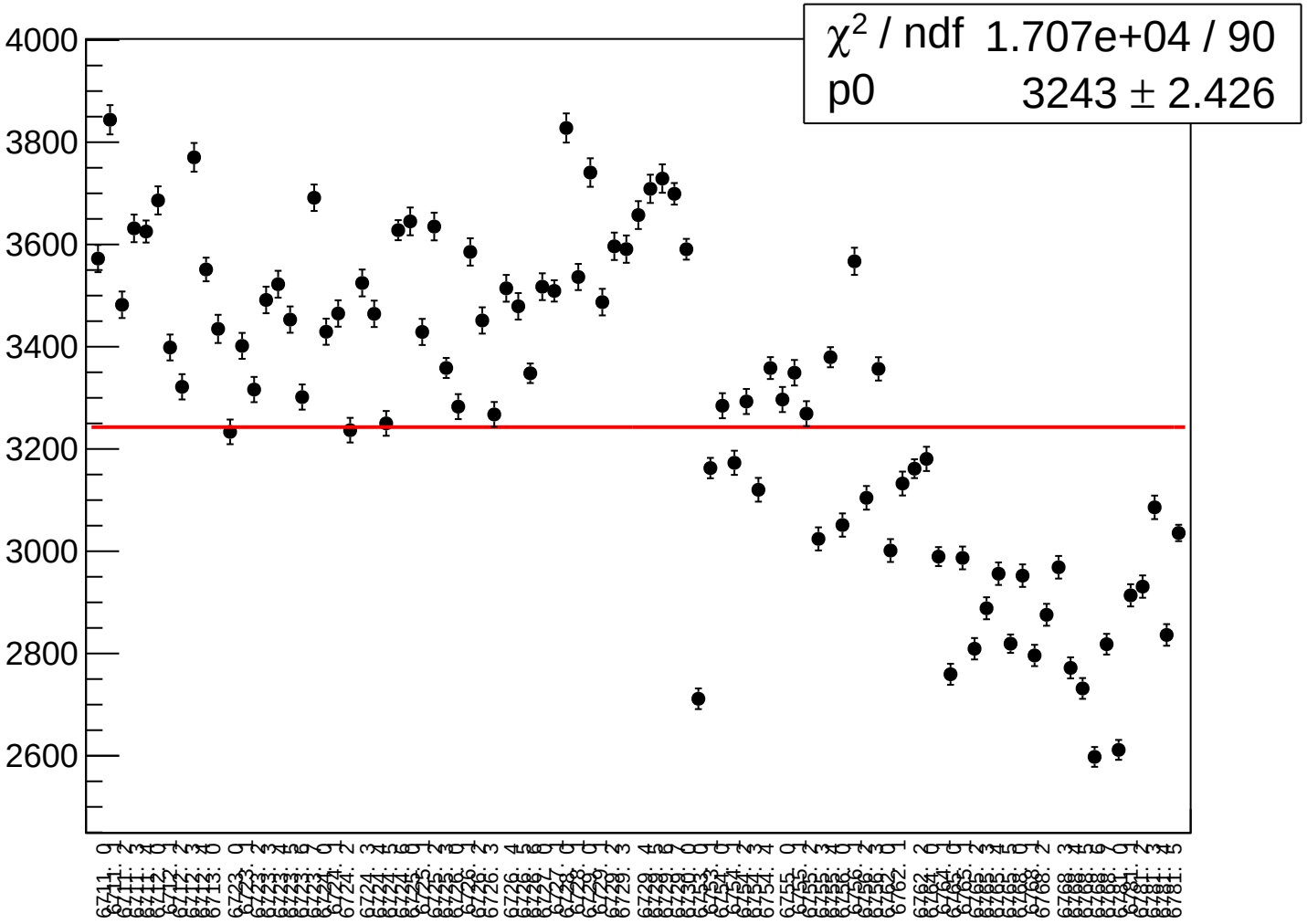

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 79.98 / 90
p0 1101 ± 1215
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −546.4
Std Dev 0
2
1
0
−1
−2
−3

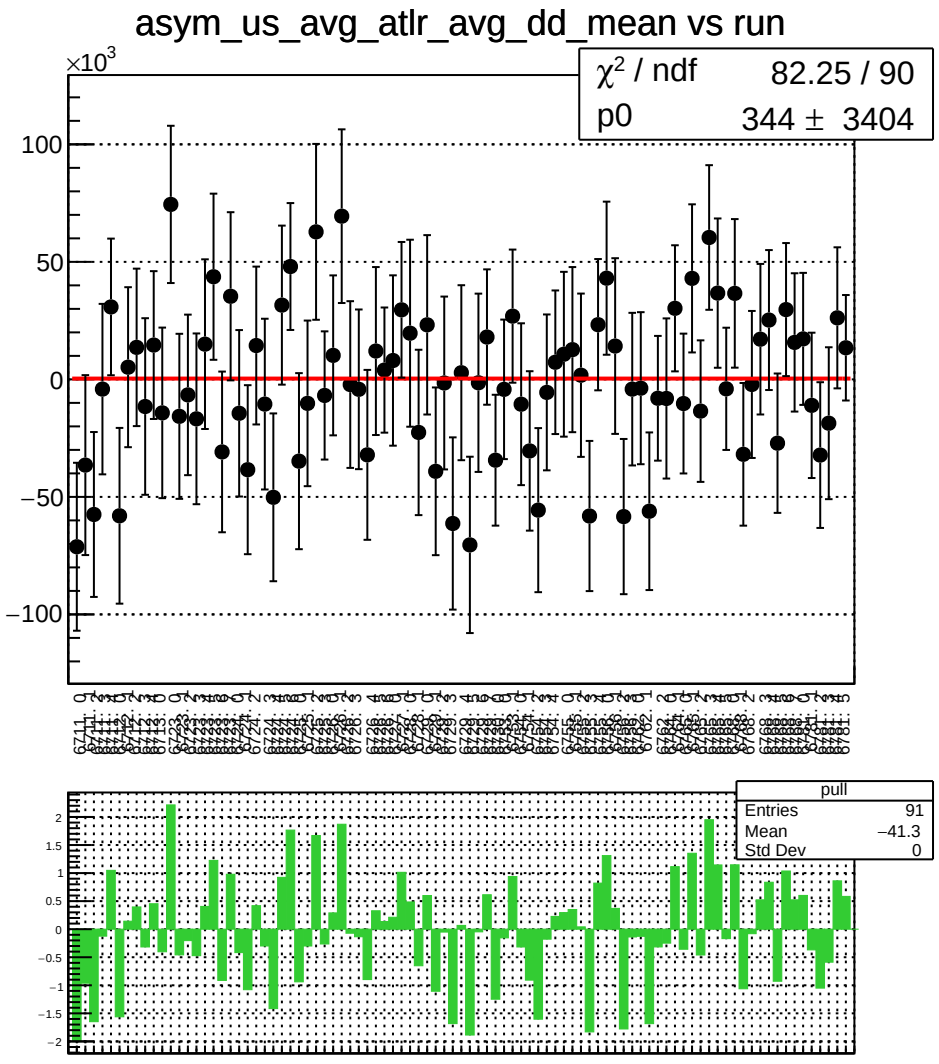

pull1D
Entries 91
Mean 0.007057
Std Dev 0.9375
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

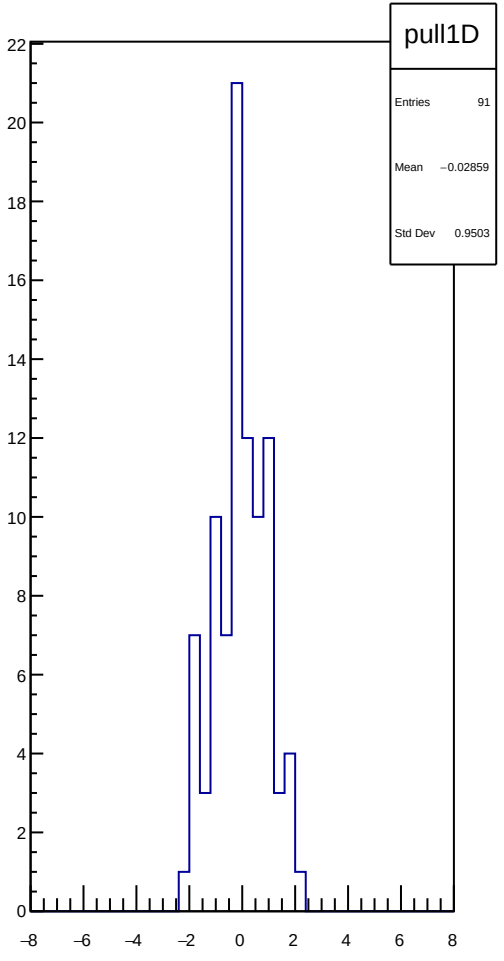

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1699 / 90
p0 1154 ± 0.8592
1220
1200
1180
1160
1140
1120
1100
1080

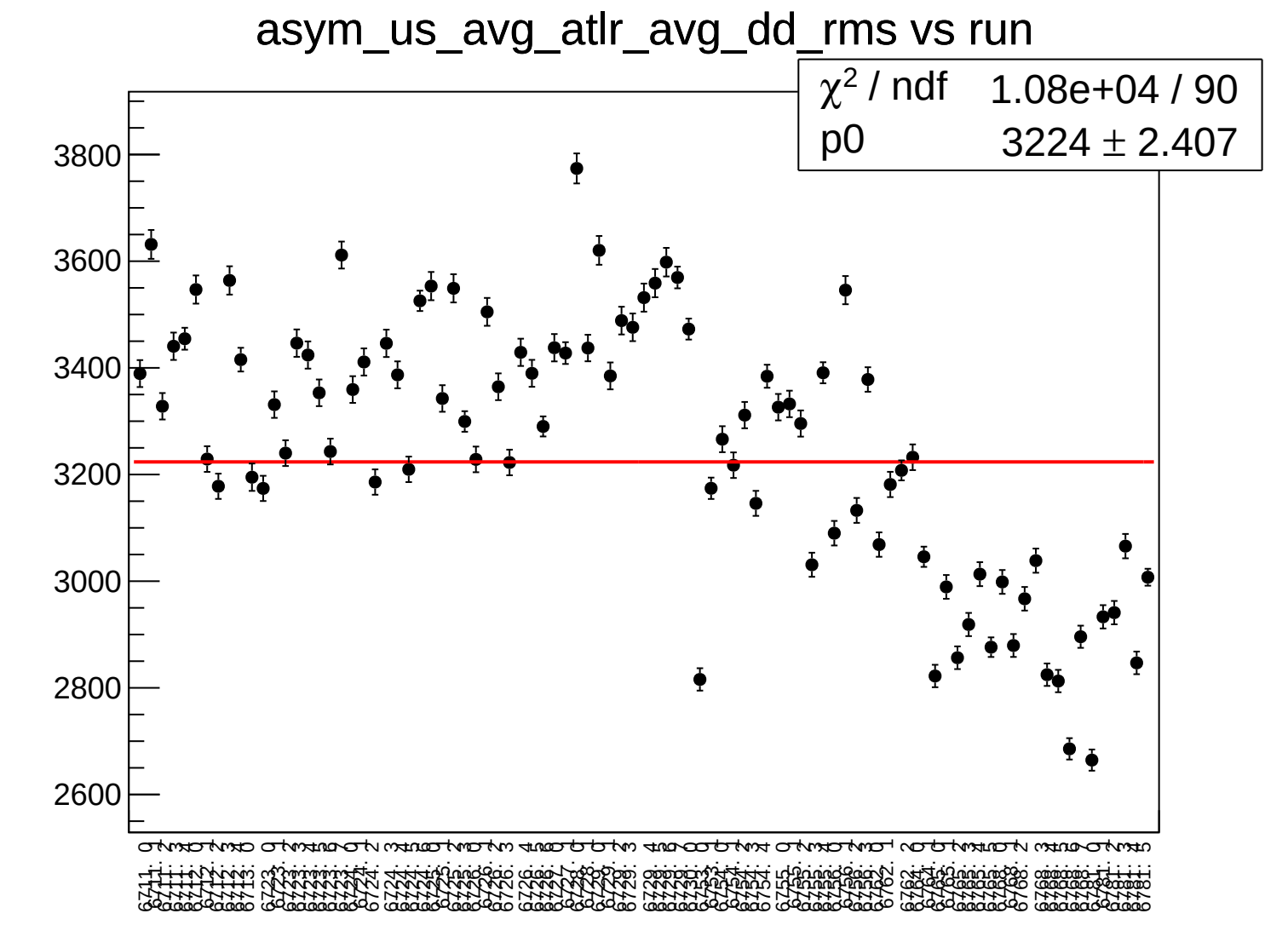

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 81.8 / 90
p0 402.3 ± 3430
100
50
0
−50
−100
pull
Entries 91
Mean −63.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

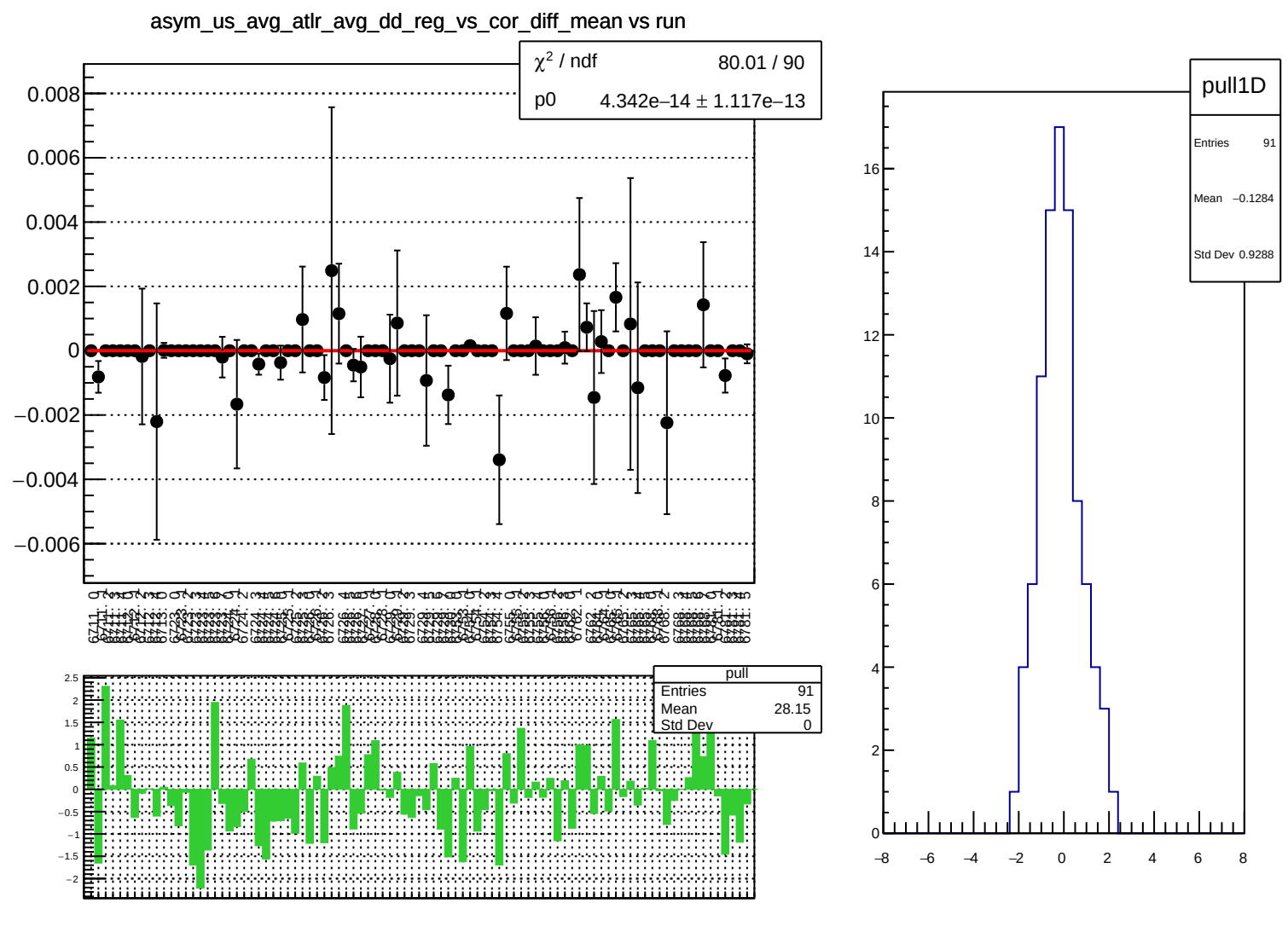

pull1D
Entries 91
Mean 0.03572
Std Dev 0.9474
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

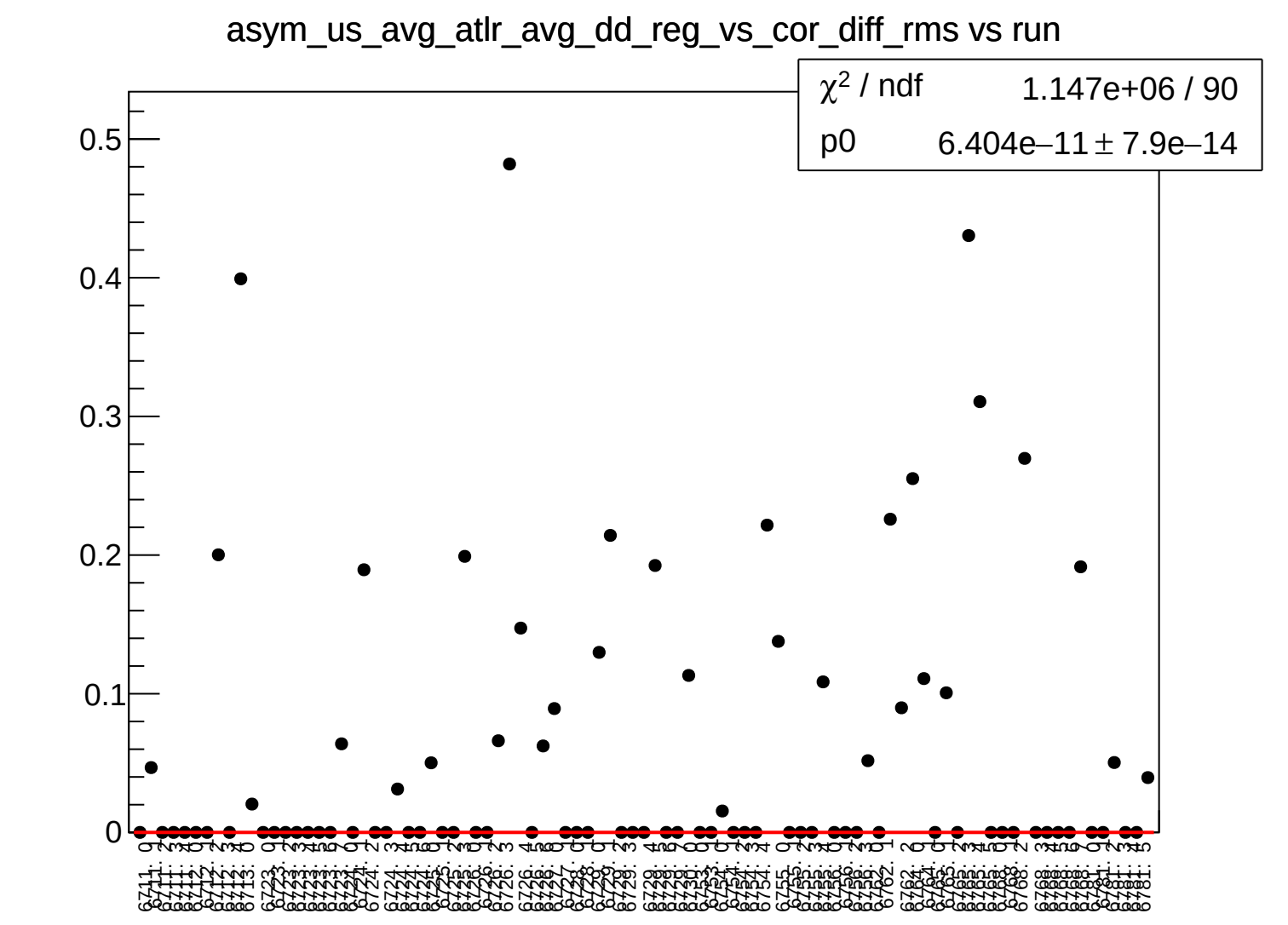

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 1.707e+04 / 90
p0 3243 ± 2.426
4000
3800
3600
3400
3200
3000
2800
2600

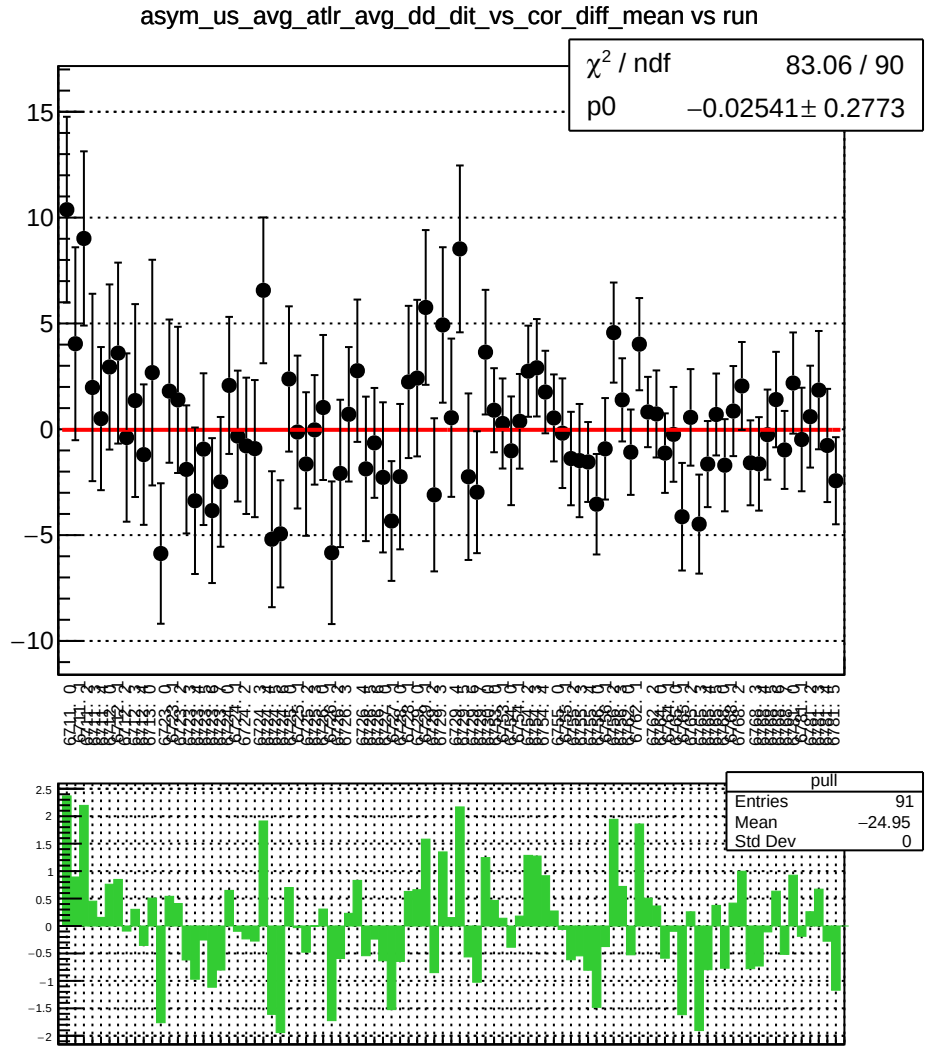

asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 82.25 / 90
p0 344 ± 3404
×10³
100
50
0
−50
−100
pull
Entries 91
Mean −41.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

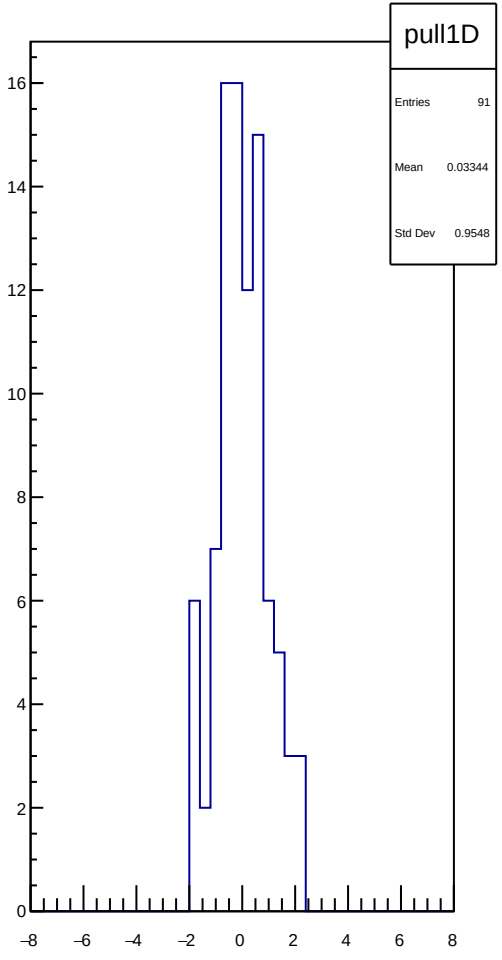

pull1D
Entries 91
Mean −0.02859
Std Dev 0.9503
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

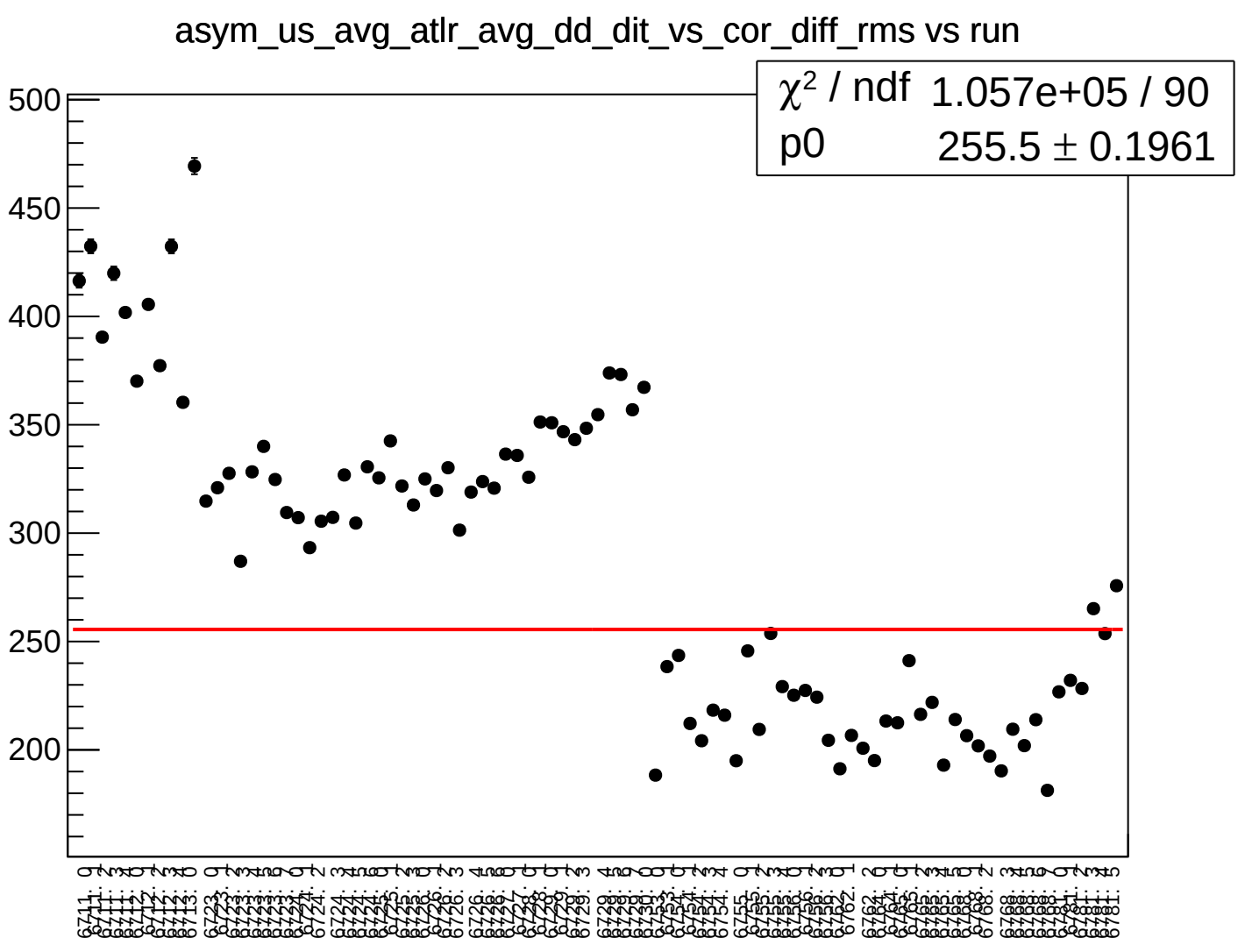

asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 1.08e+04 / 90
p0 3224 ± 2.407
3800
3600
3400
3200
3000
2800
2600

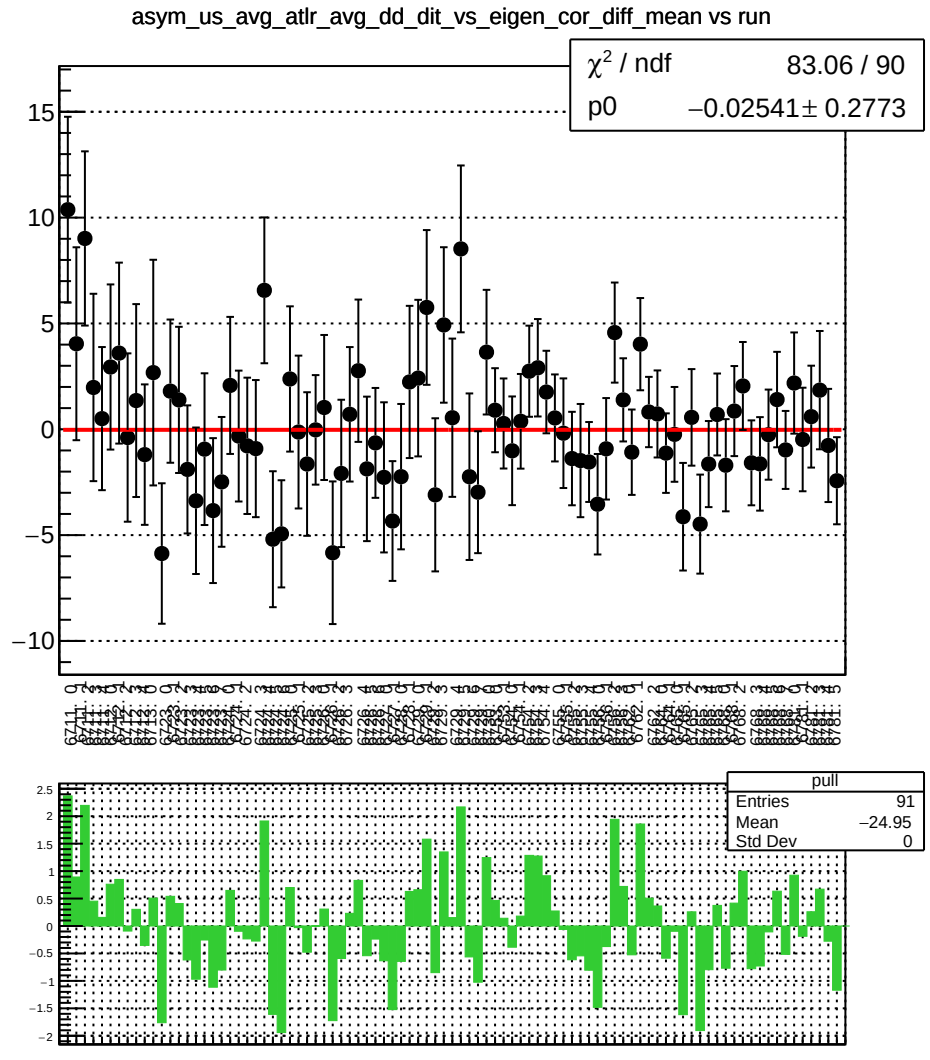

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.01 / 90
p0 4.342e−14 ± 1.117e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 91
Mean 28.15
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean −0.1284
Std Dev 0.9288
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

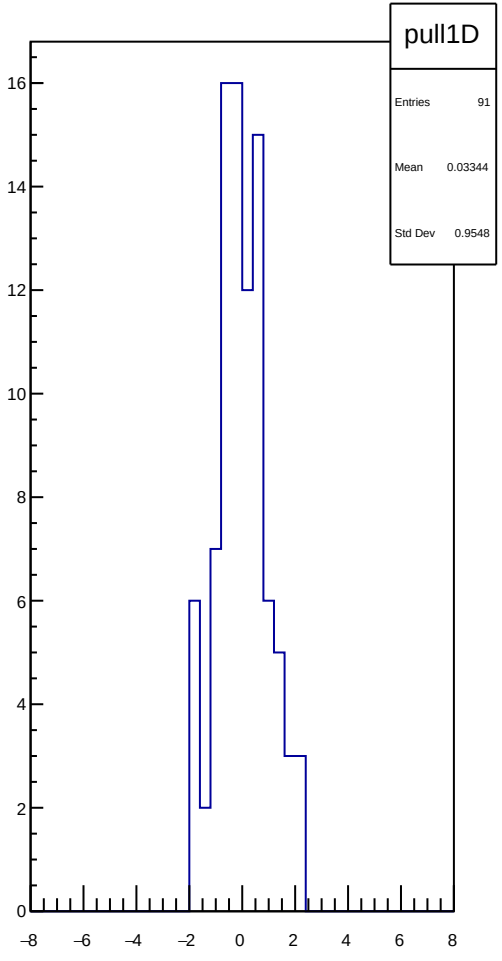

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.147e+06 / 90
p0 6.404e−11 ± 7.9e−14
0.5
0.4
0.3
0.2
0.1
0

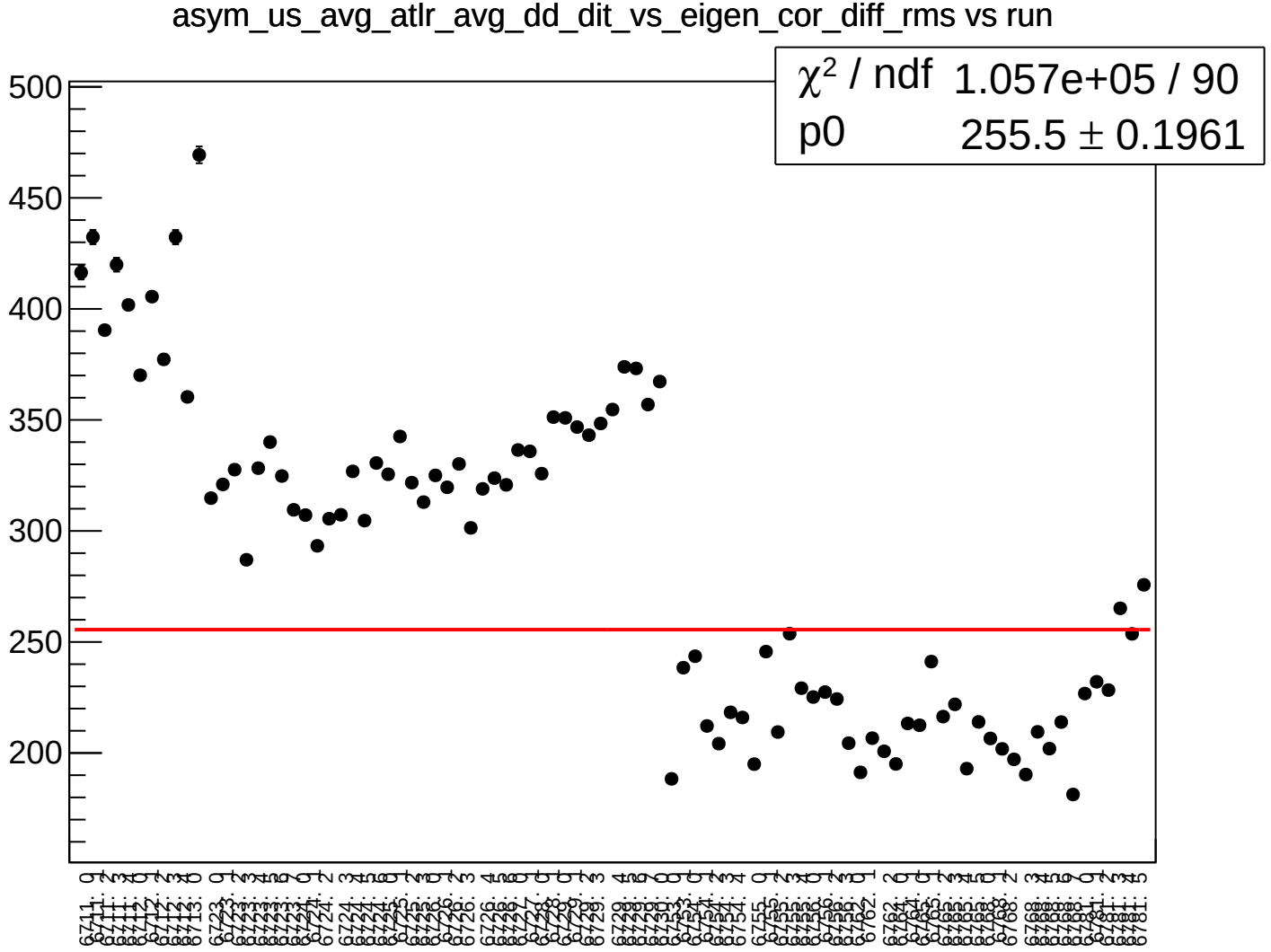

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.06 / 90
p0 −0.02541 ± 0.2773
pull
Entries 91
Mean −24.95
Std Dev 0

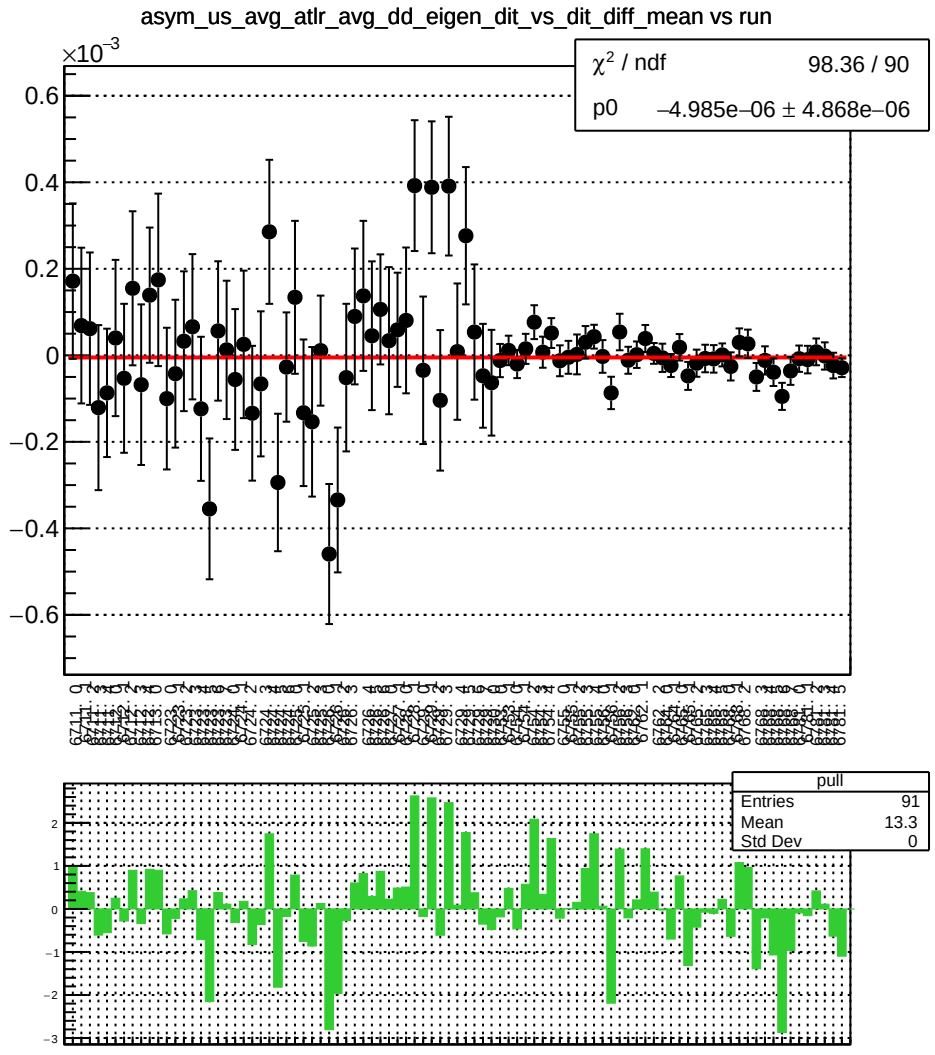

pull1D
Entries 91
Mean 0.03344
Std Dev 0.9548

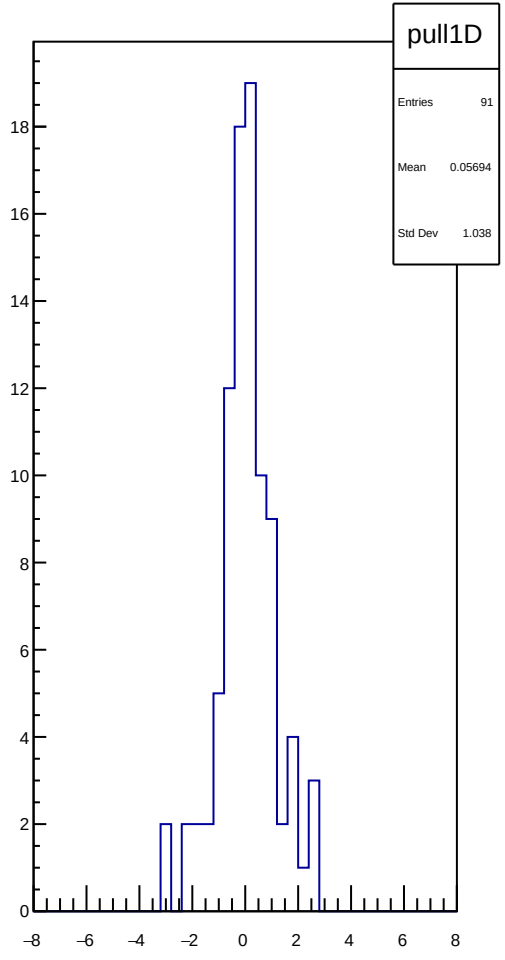

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.057e+05 / 90
p0 255.5 ± 0.1961
500
450
400
350
300
250
200

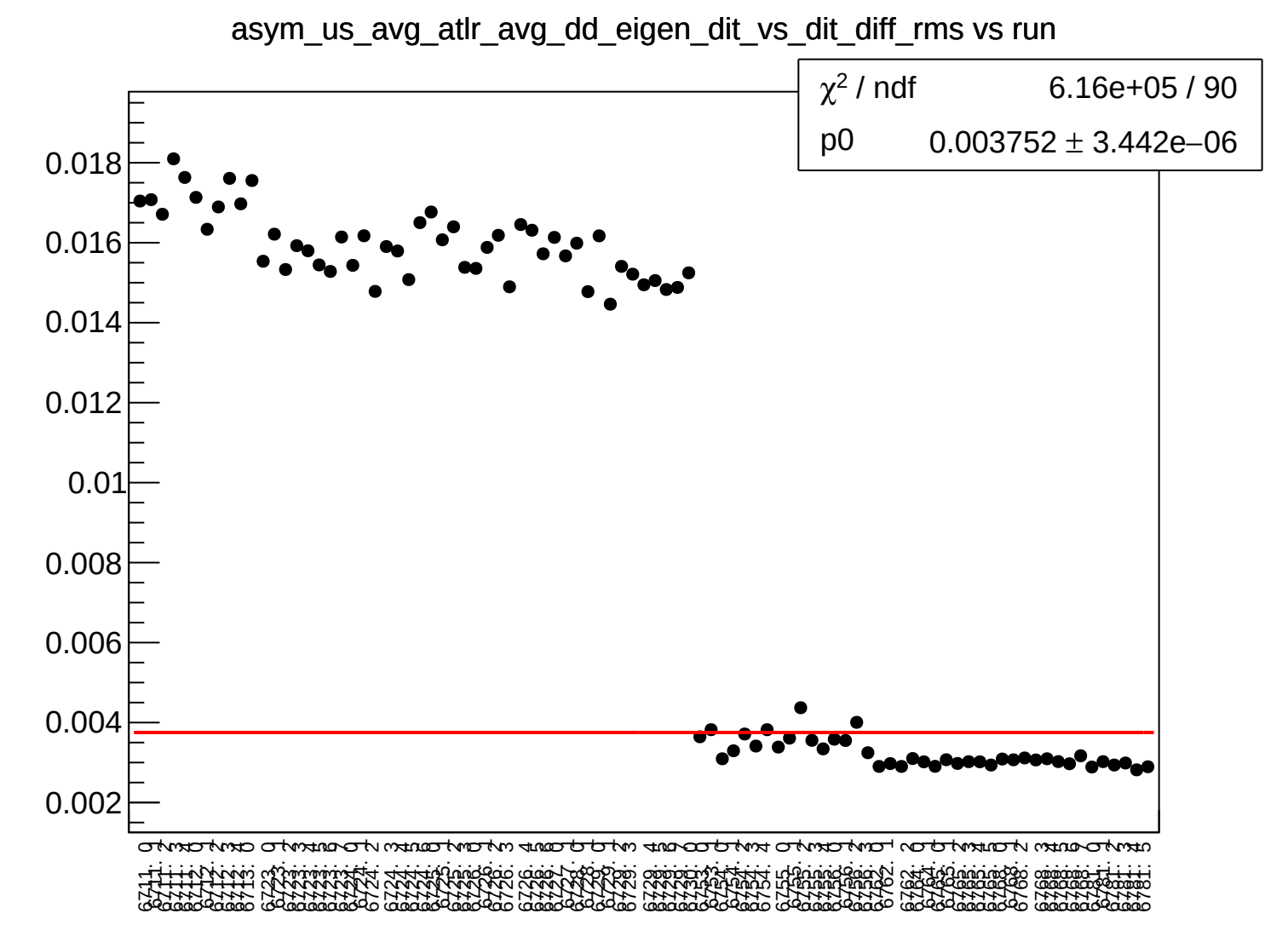

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.06 / 90
p0 −0.02541 ± 0.2773
pull
Entries 91
Mean −24.95
Std Dev 0

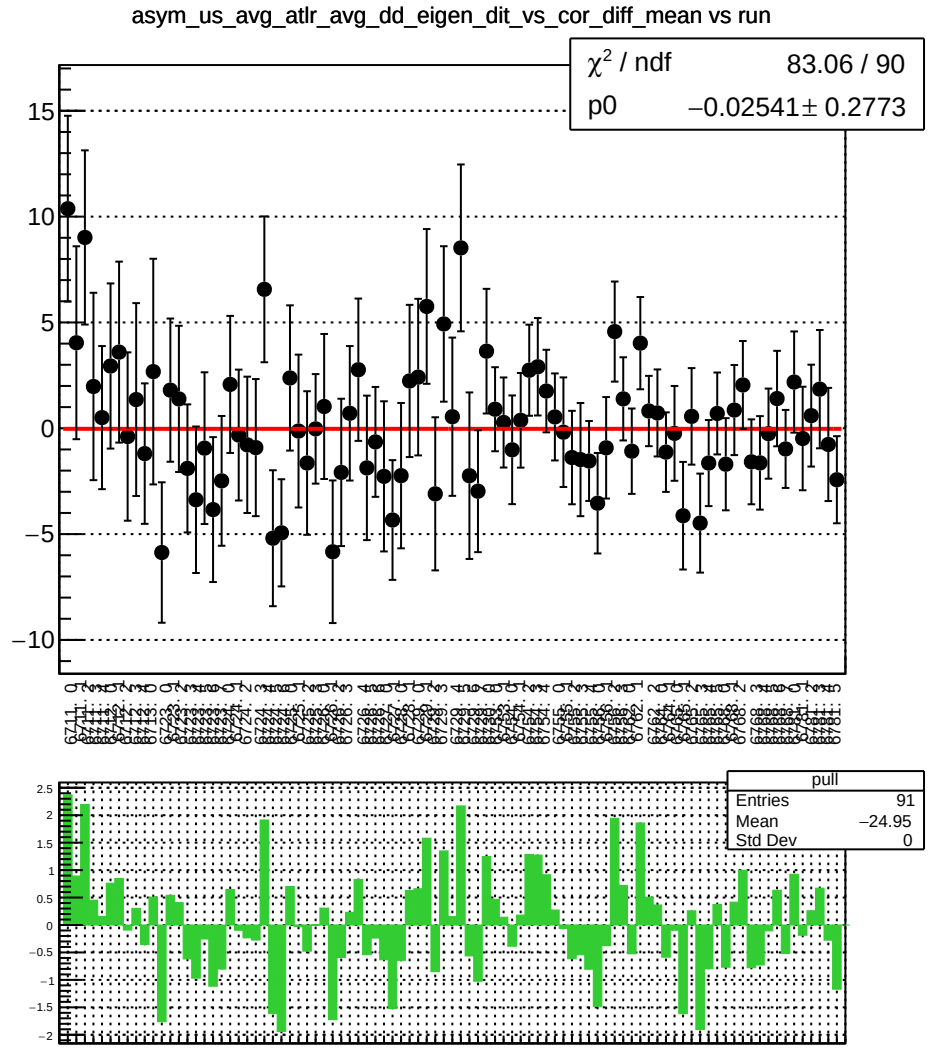

pull1D
Entries 91
Mean 0.03344
Std Dev 0.9548

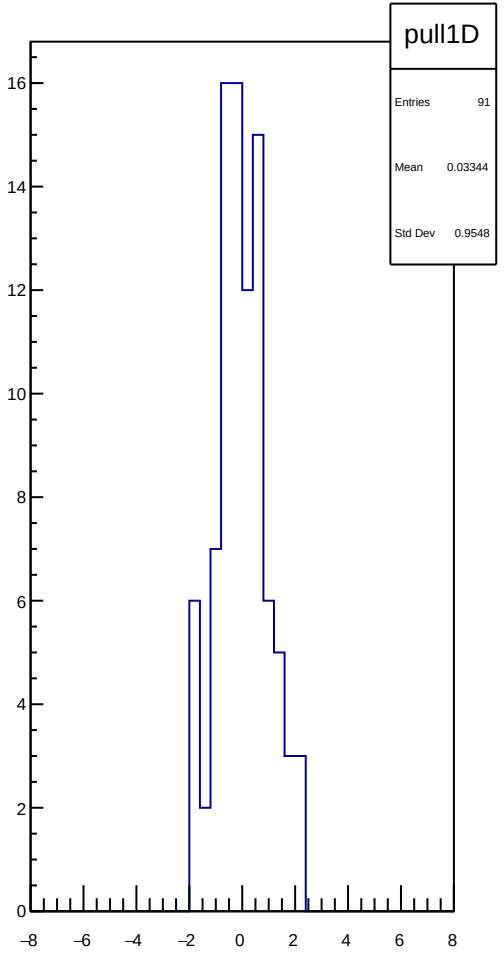

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.057e+05 / 90
p0 255.5 ± 0.1961
500
450
400
350
300
250
200

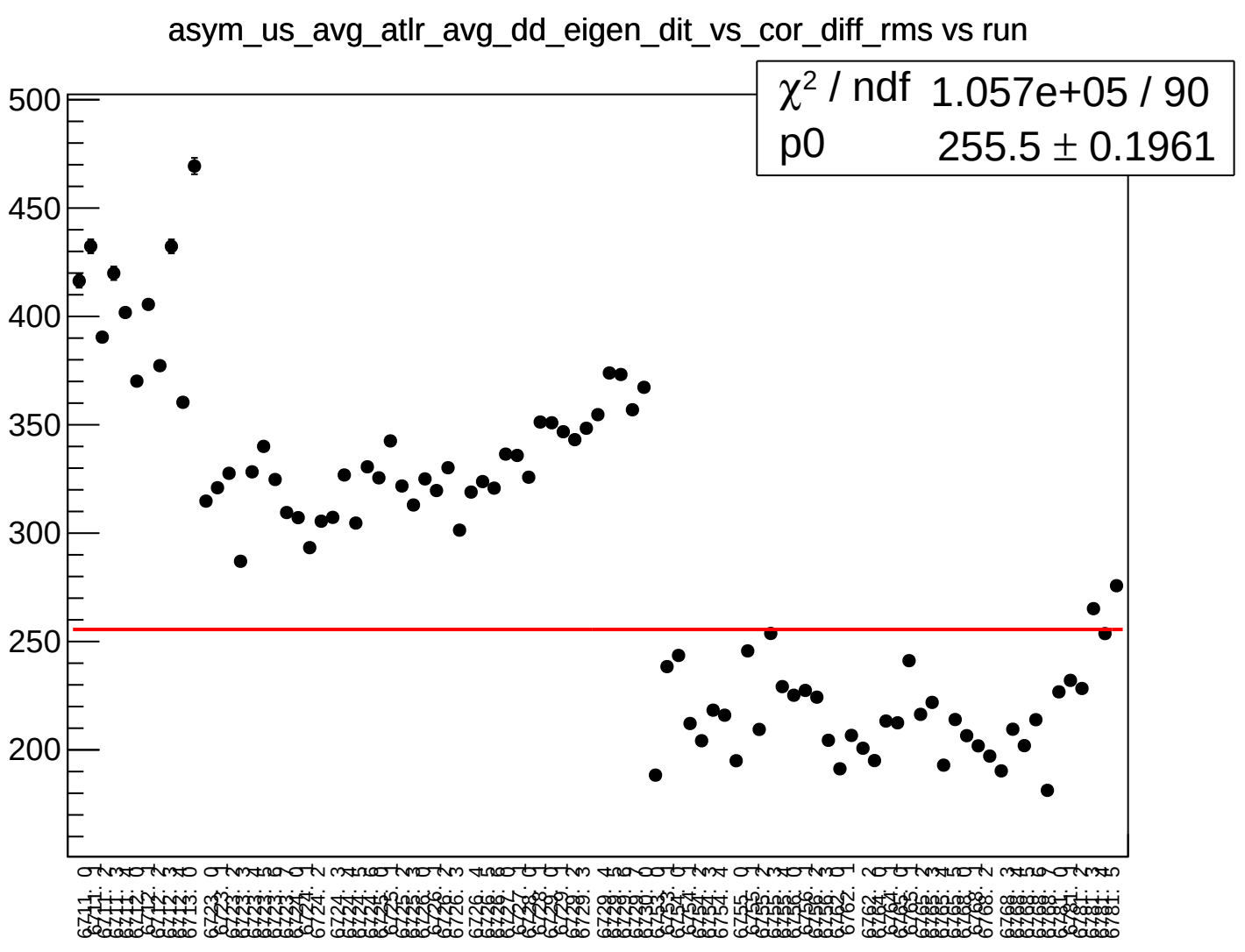

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.36 / 90
p0 −4.985e−06 ± 4.868e−06
pull
Entries 91
Mean 13.3
Std Dev 0

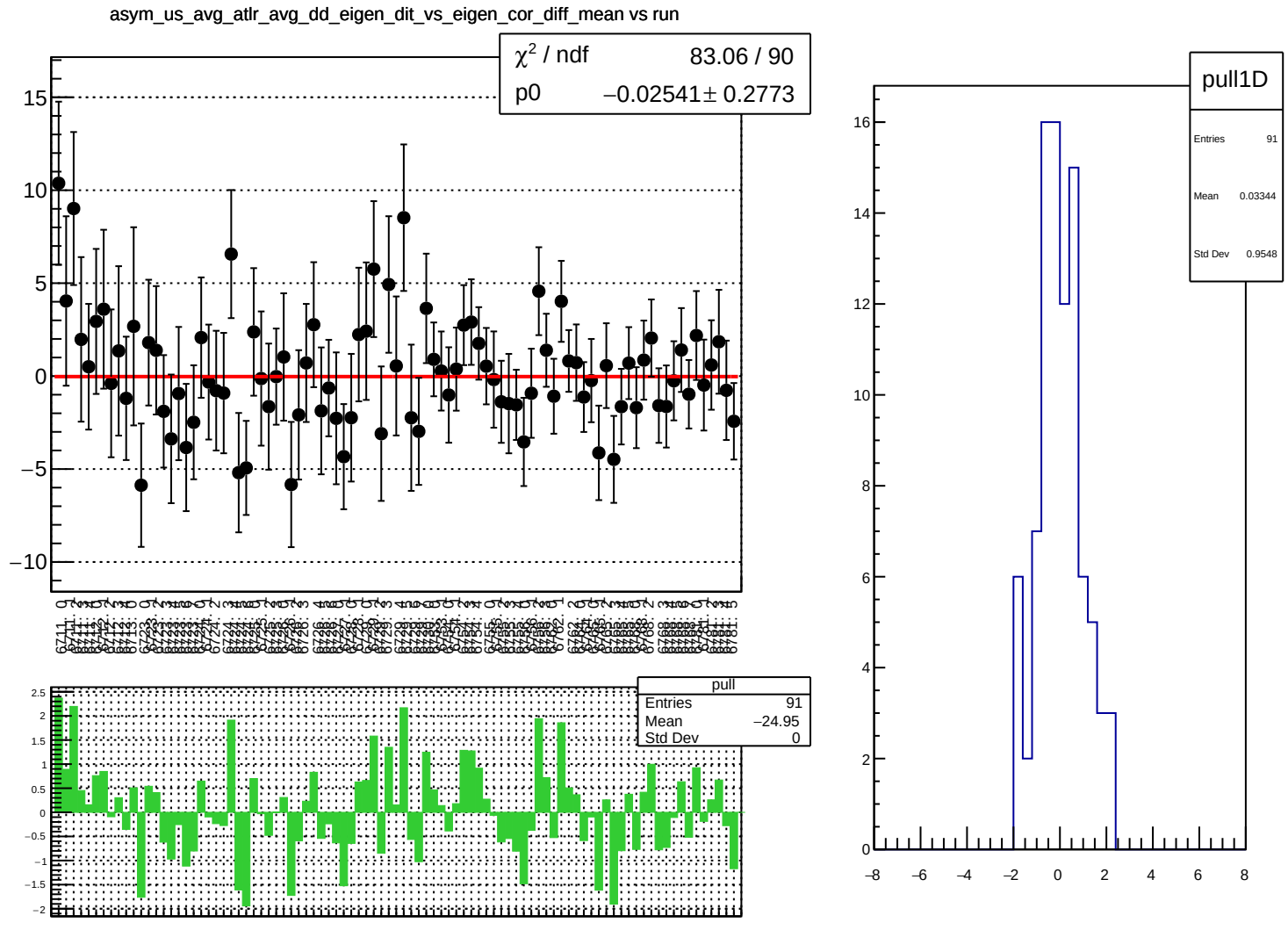

pull1D
Entries 91
Mean 0.05694
Std Dev 1.038

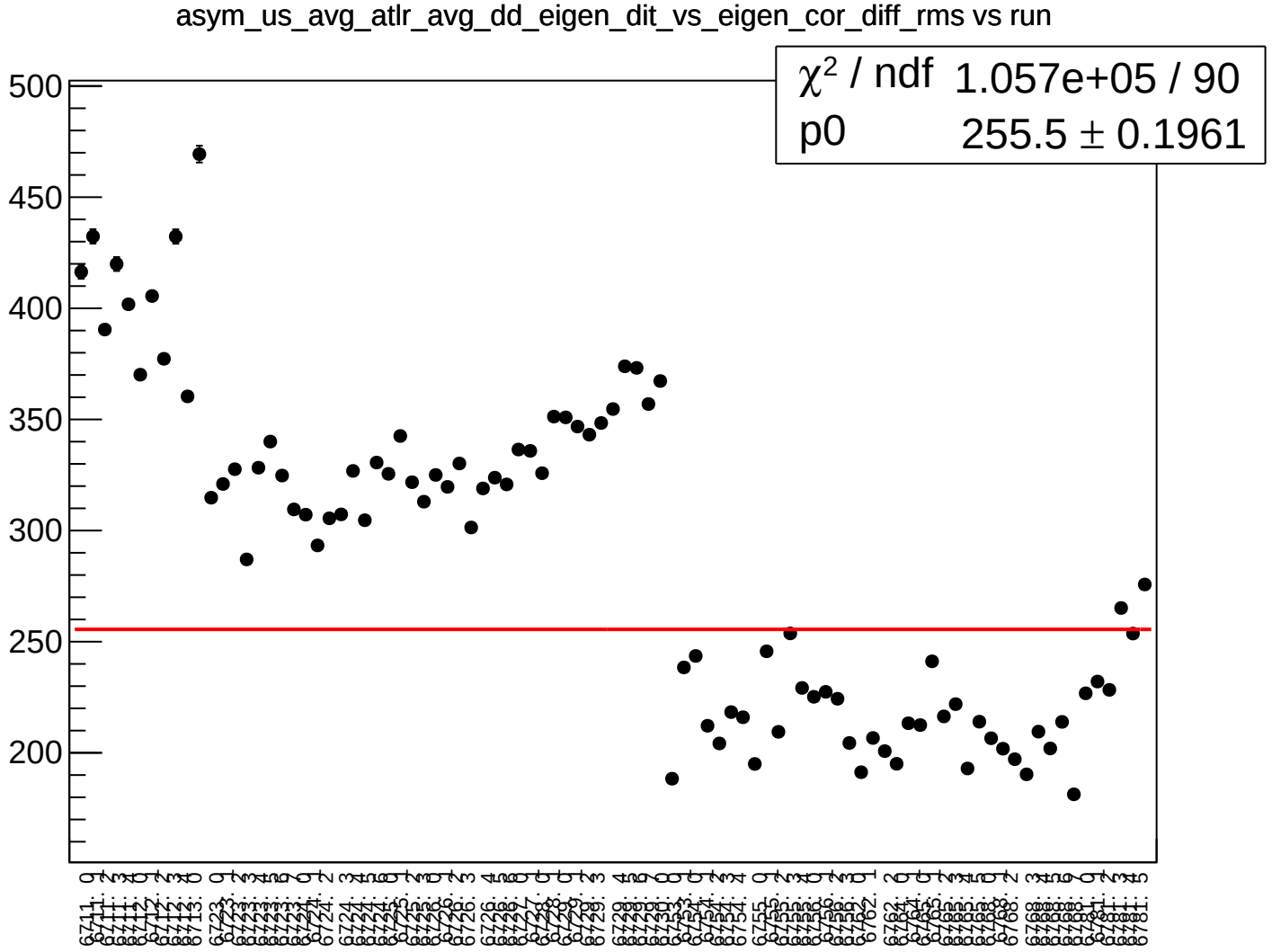

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.16e+05 / 90
p0 0.003752 ± 3.442e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

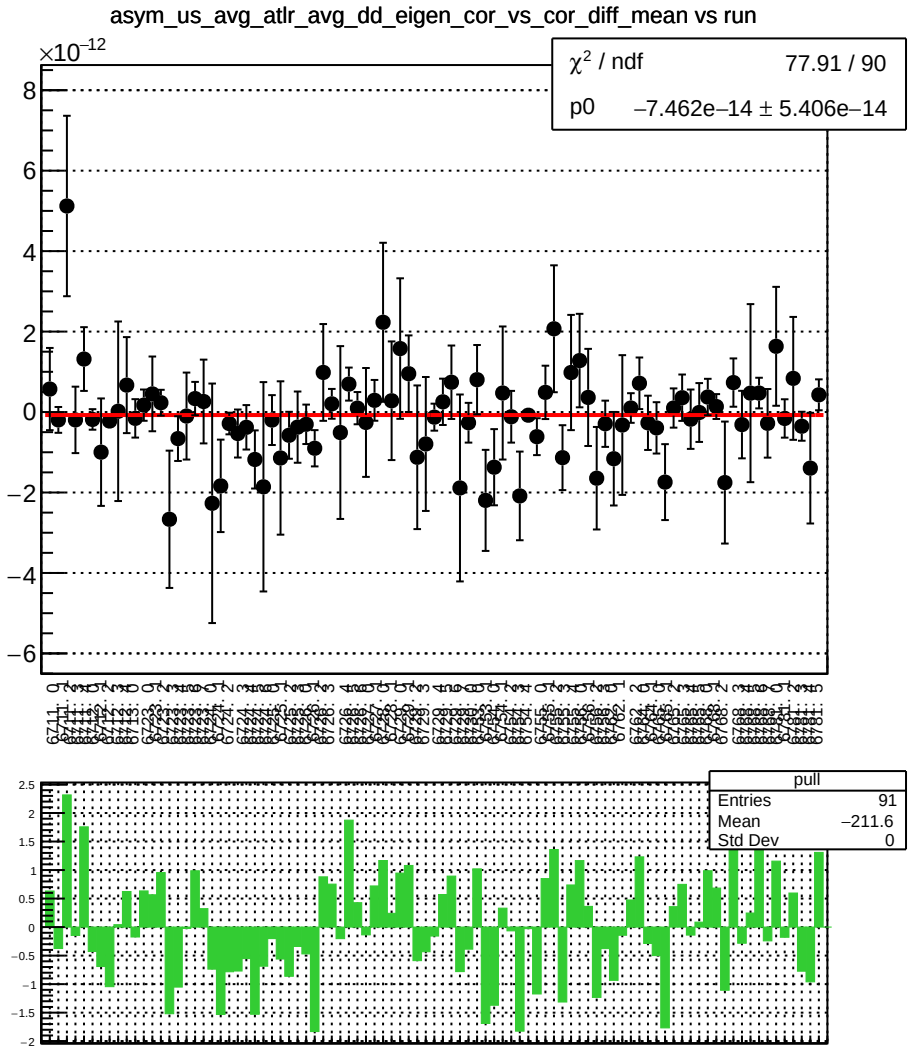

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.06 / 90
p0 −0.02541 ± 0.2773
pull
Entries 91
Mean −24.95
Std Dev 0

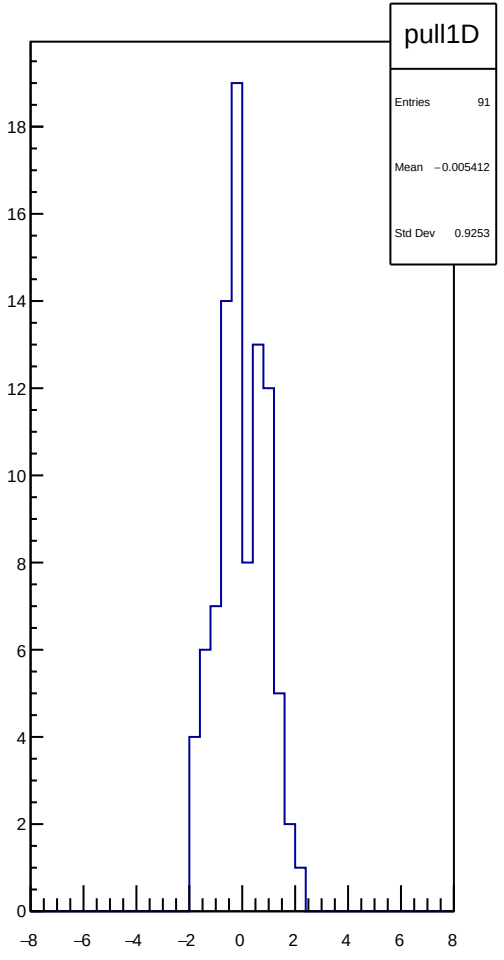

pull1D
Entries 91
Mean 0.03344
Std Dev 0.9548

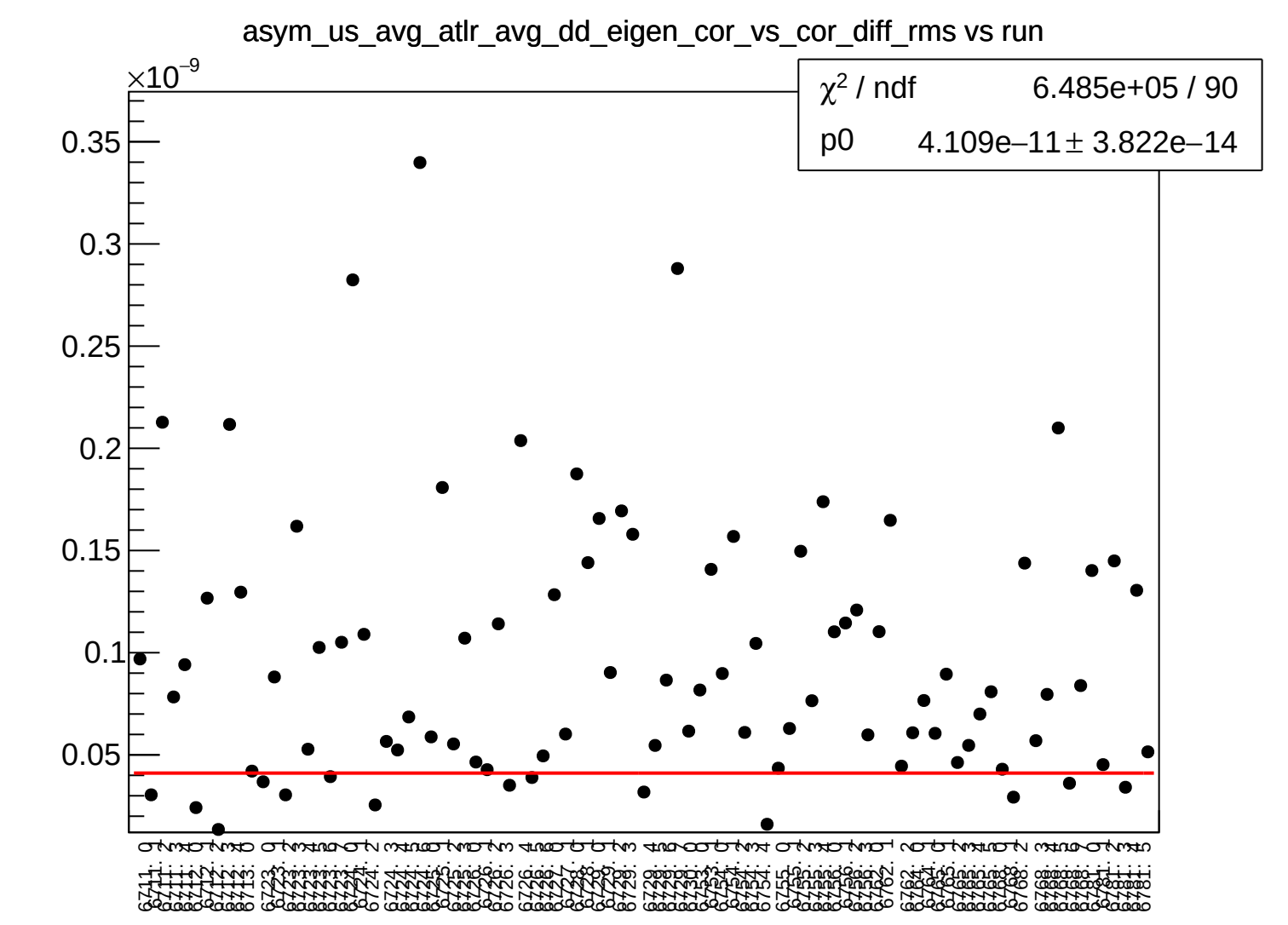

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.057e+05 / 90
p0 255.5 ± 0.1961
500
450
400
350
300
250
200

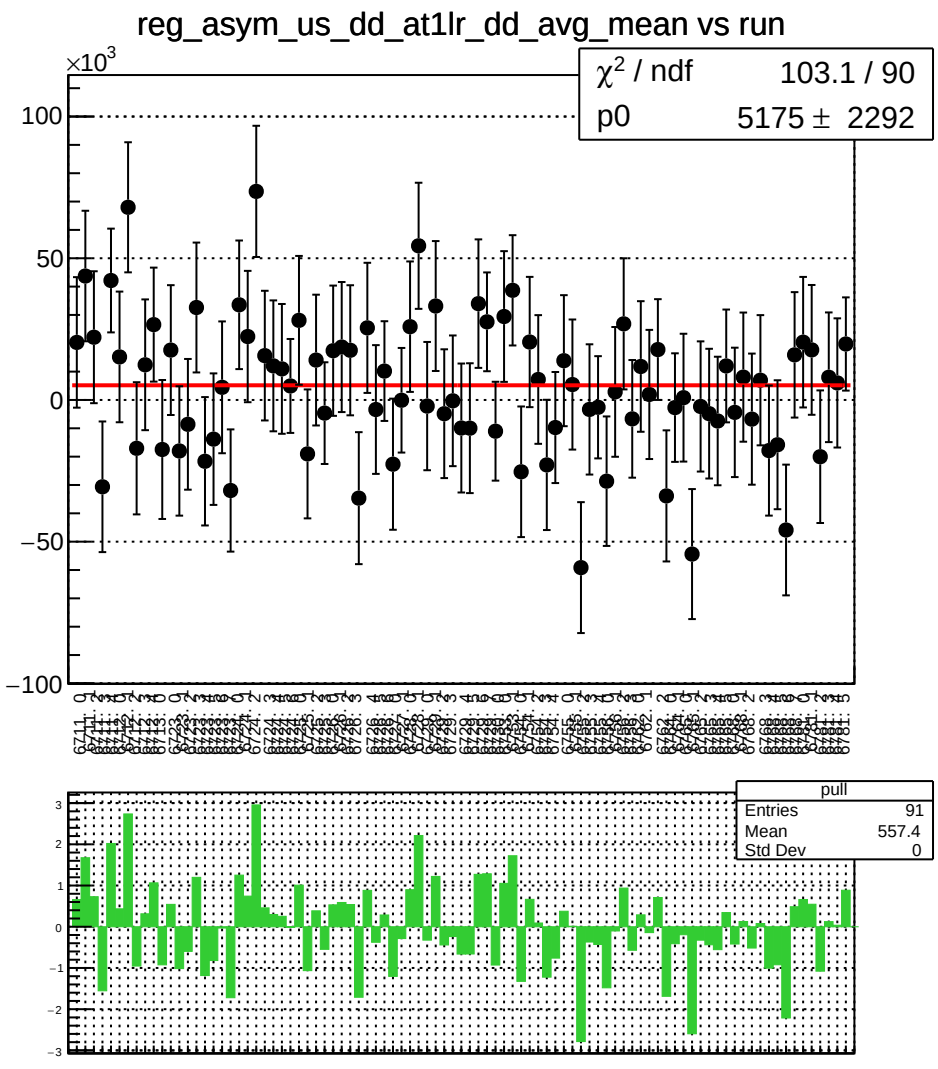

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.06 / 90
p0 −0.02541 ± 0.2773
pull
Entries 91
Mean −24.95
Std Dev 0
pull1D
Entries 91
Mean 0.03344
Std Dev 0.9548

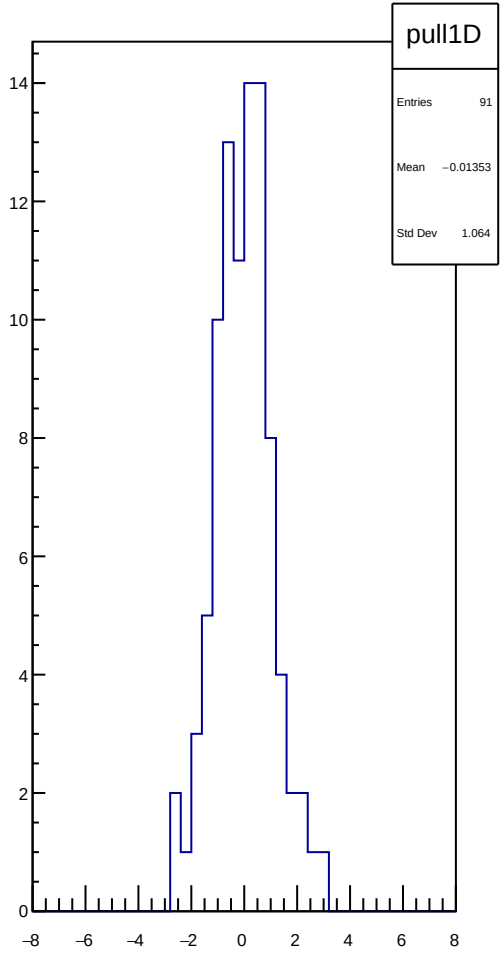

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.057e+05 / 90
p0 255.5 ± 0.1961
500
450
400
350
300
250
200

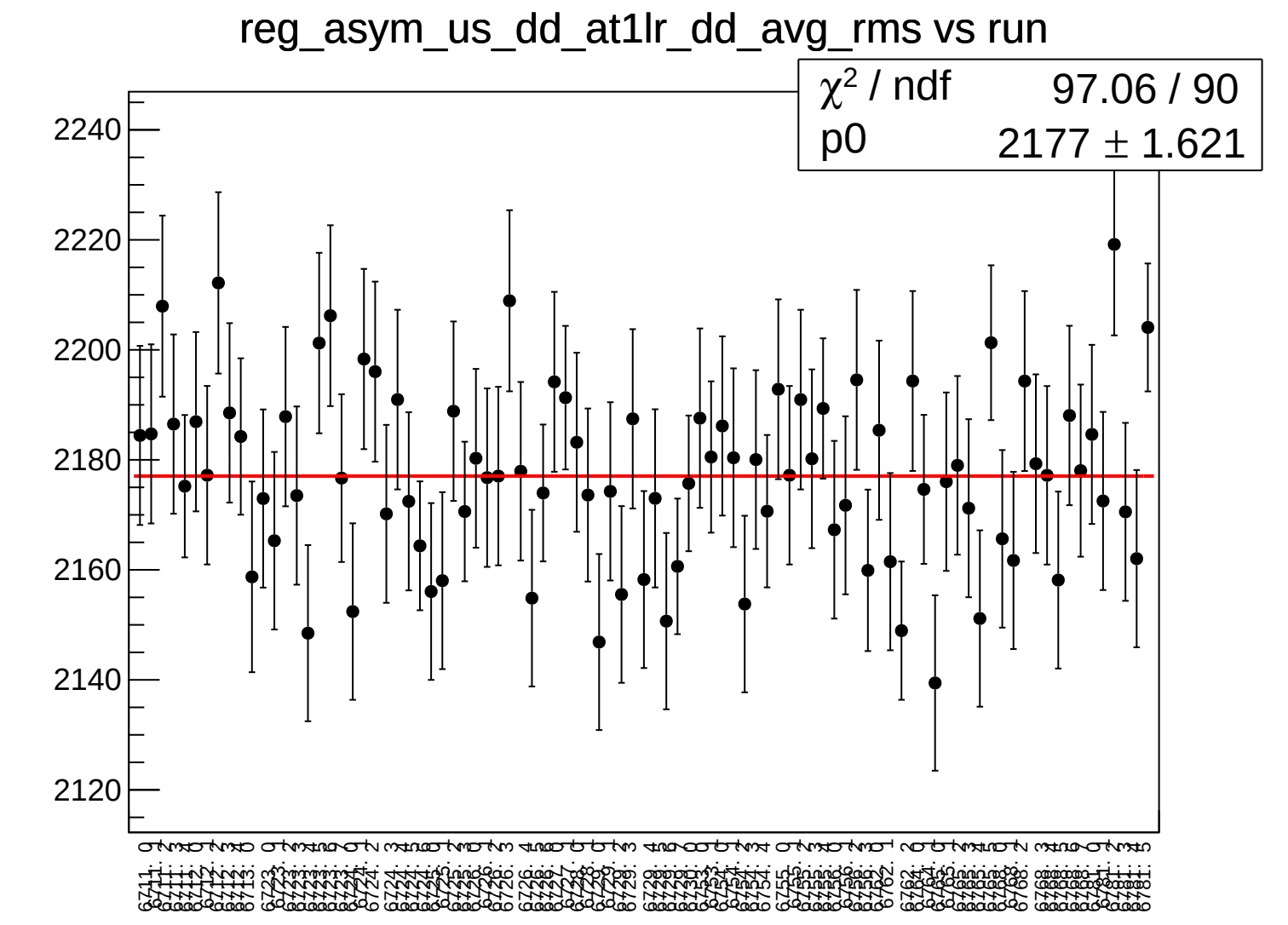

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.91 / 90
p0 −7.462e−14 ± 5.406e−14
pull
Entries 91
Mean −211.6
Std Dev 0

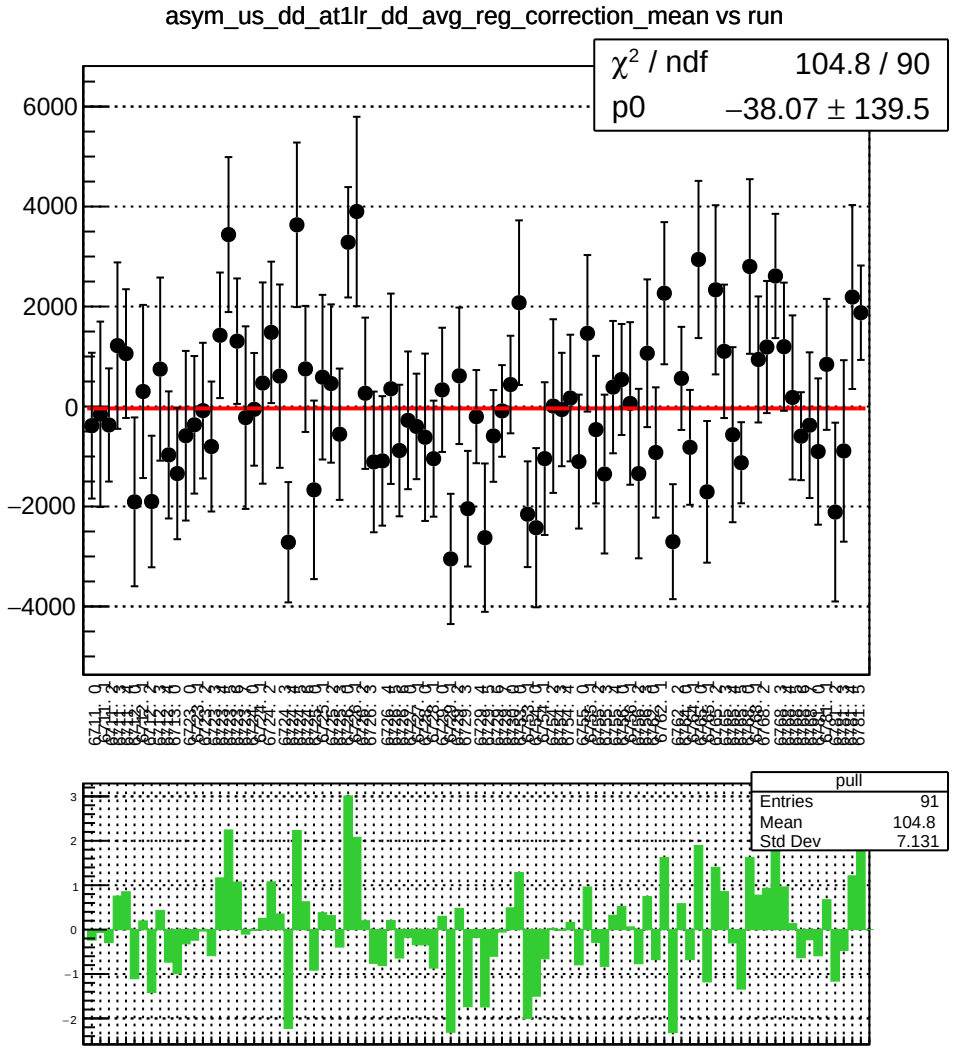

pull1D
Entries 91
Mean −0.005412
Std Dev 0.9253

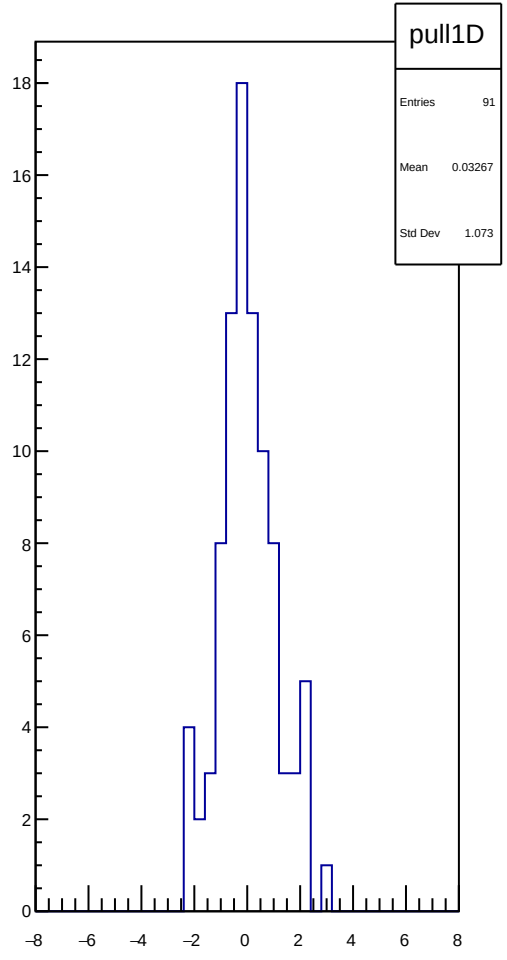

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.485e+05 / 90
p0 4.109e−11 ± 3.822e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

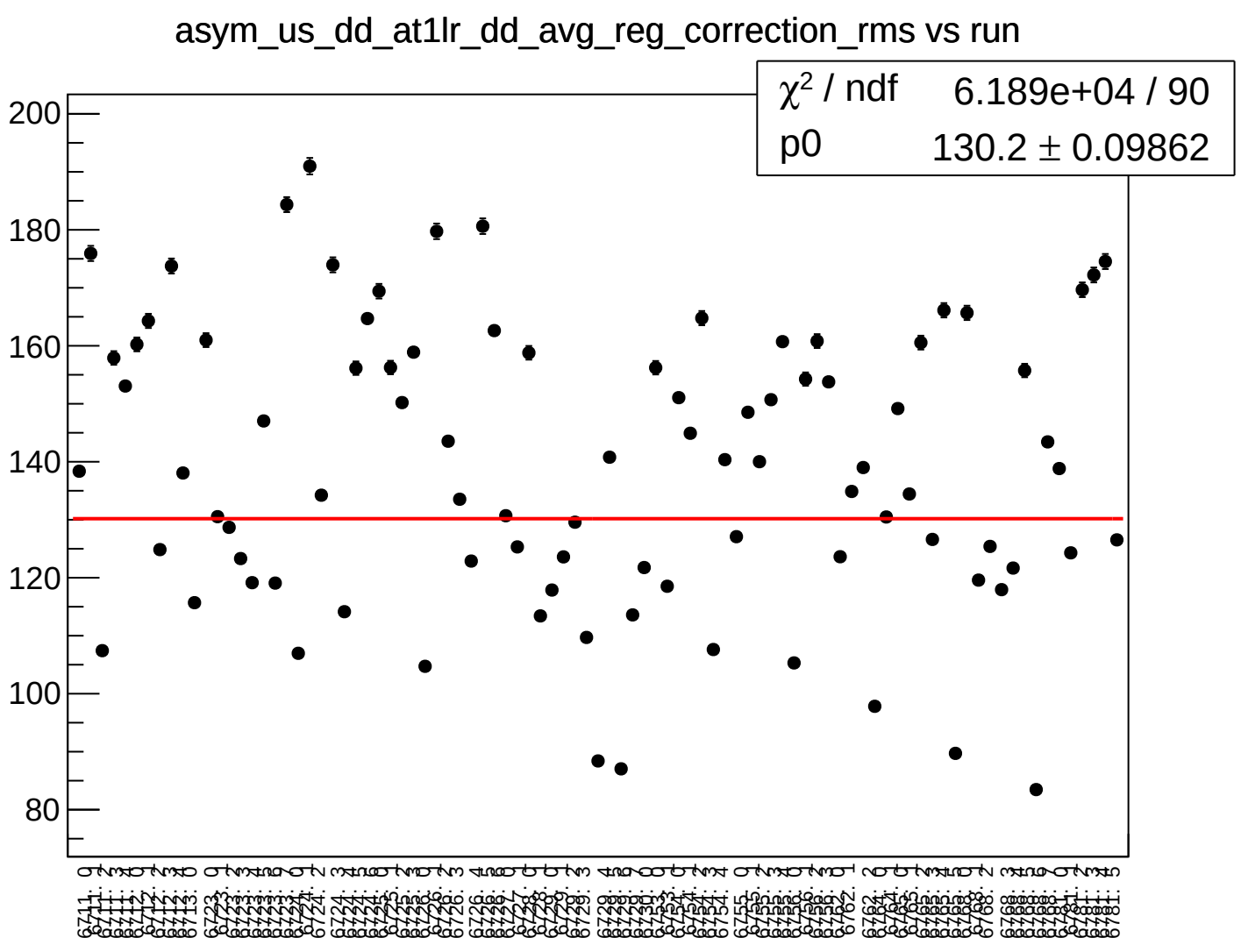

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 103.1 / 90
p0 5175 ± 2292
100
50
0
−50
−100
pull
Entries 91
Mean 557.4
Std Dev 0
3
2
1
0
−1
−2
−3

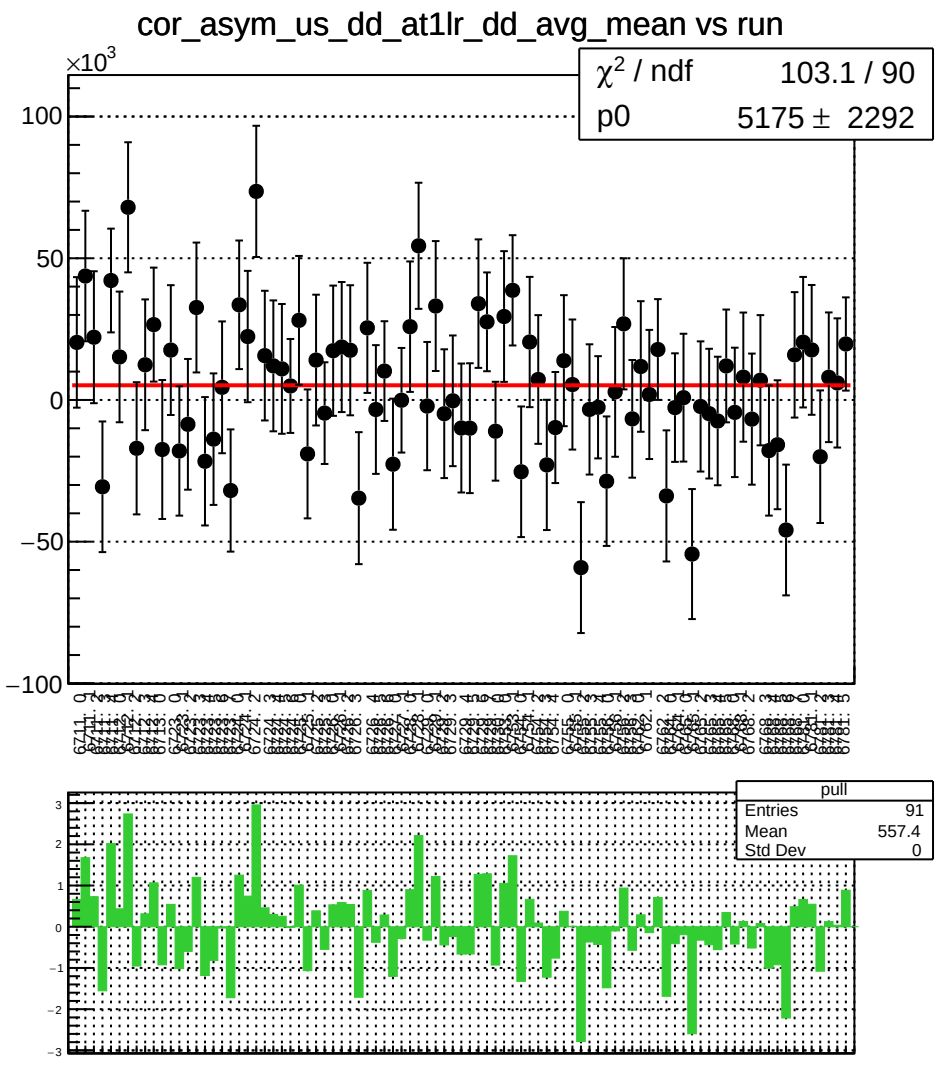

pull1D
Entries 91
Mean −0.01353
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

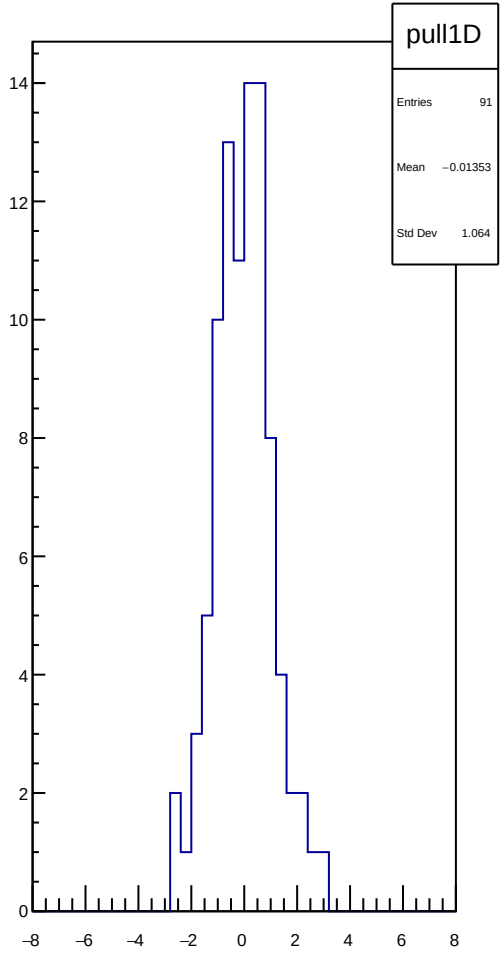

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 97.06 / 90
p0 2177 ± 1.621
2240
2220
2200
2180
2160
2140
2120

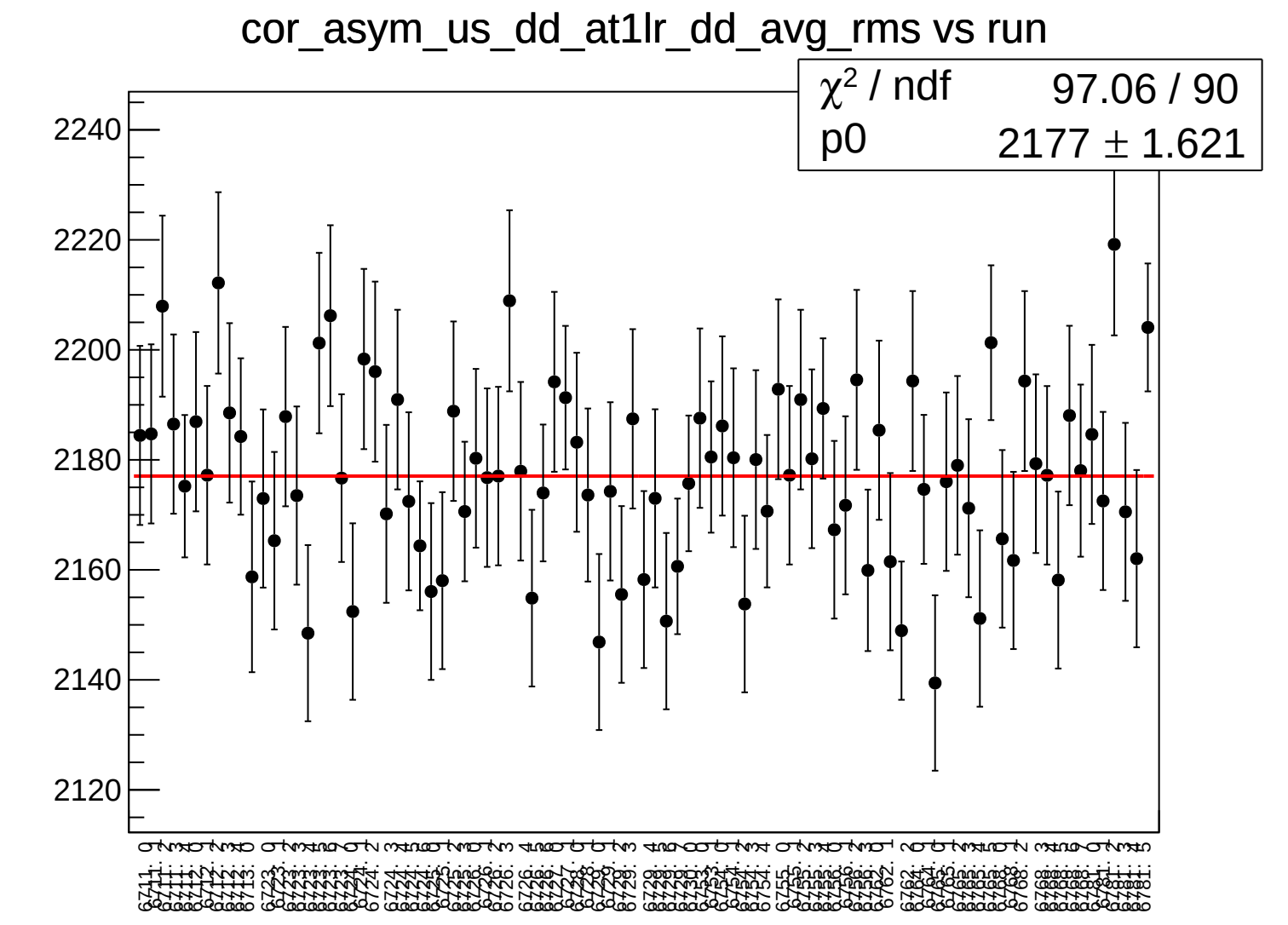

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 104.8 / 90
p0 −38.07 ± 139.5
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 104.8
Std Dev 7.131
3
2
1
0
−1
−2

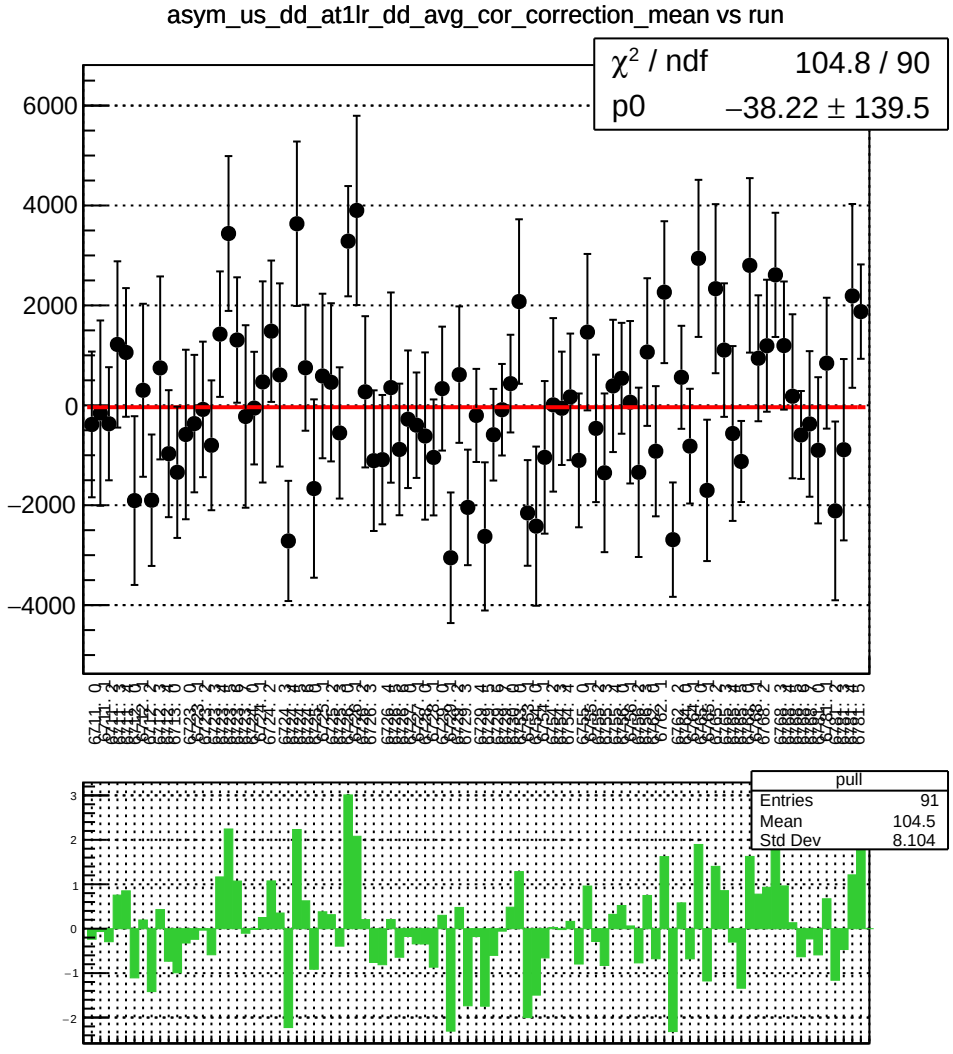

pull1D
Entries 91
Mean 0.03267
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

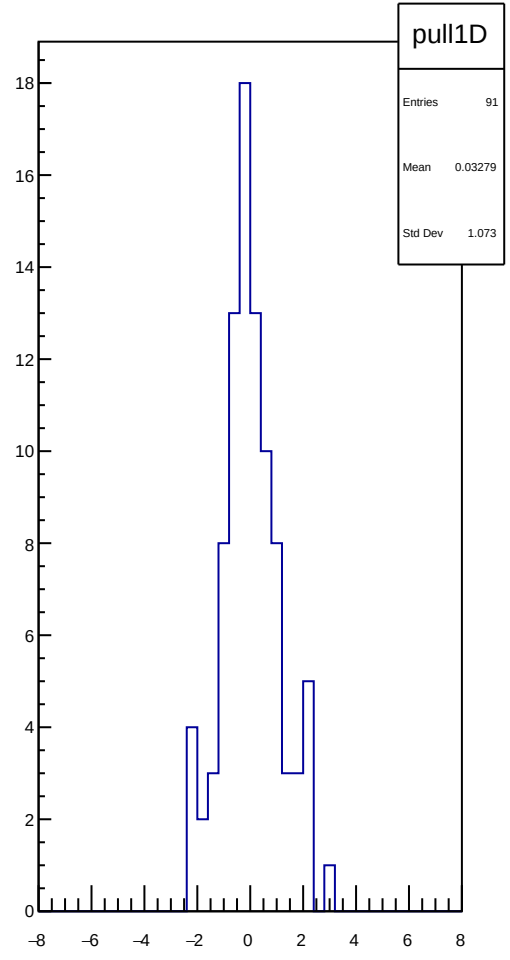

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 6.189e+04 / 90
p0 130.2 ± 0.09862
200
180
160
140
120
100
80

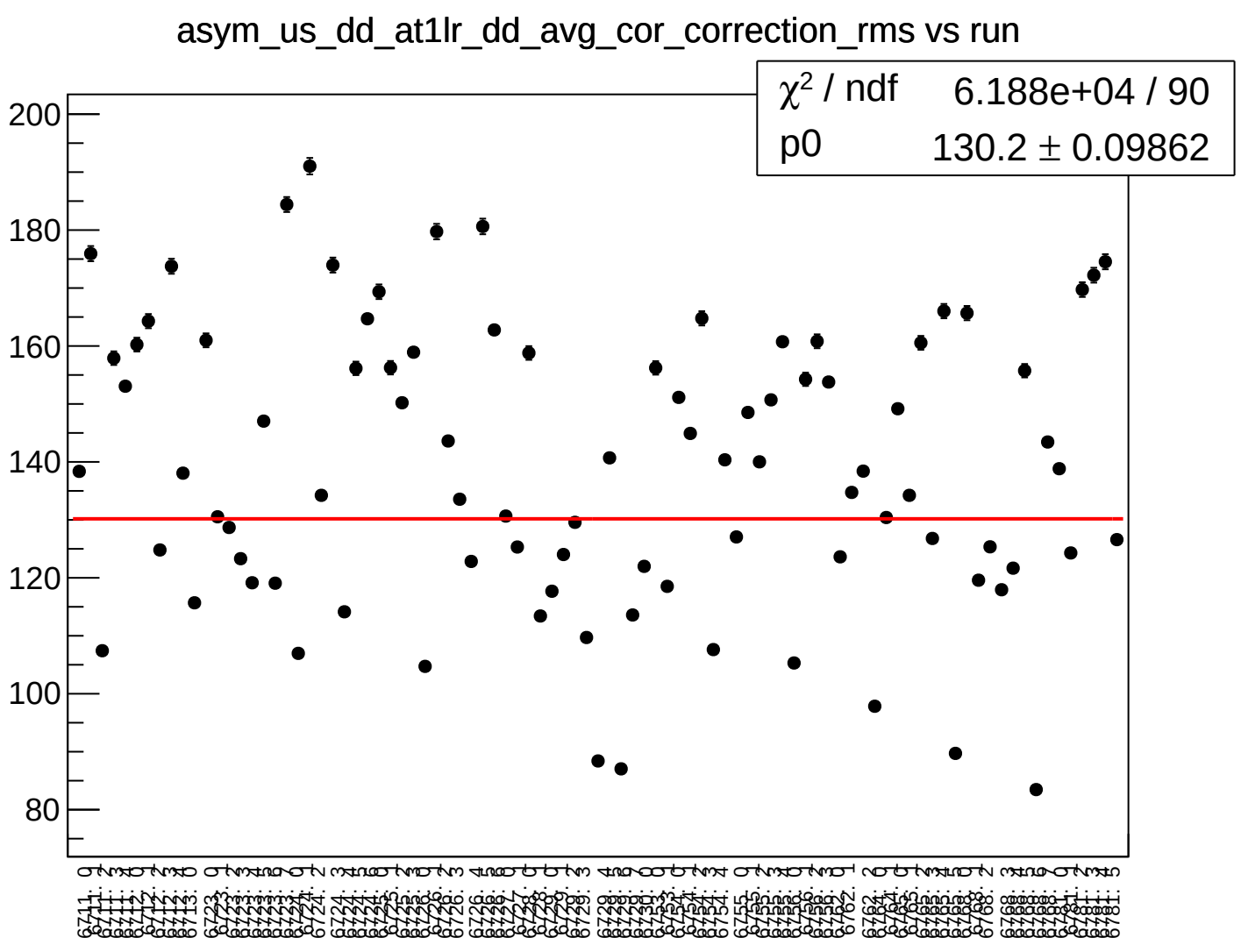

cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 103.1 / 90
p0 5175 ± 2292
100
50
0
−50
−100
pull
Entries 91
Mean 557.4
Std Dev 0
3
2
1
0
−1
−2
−3

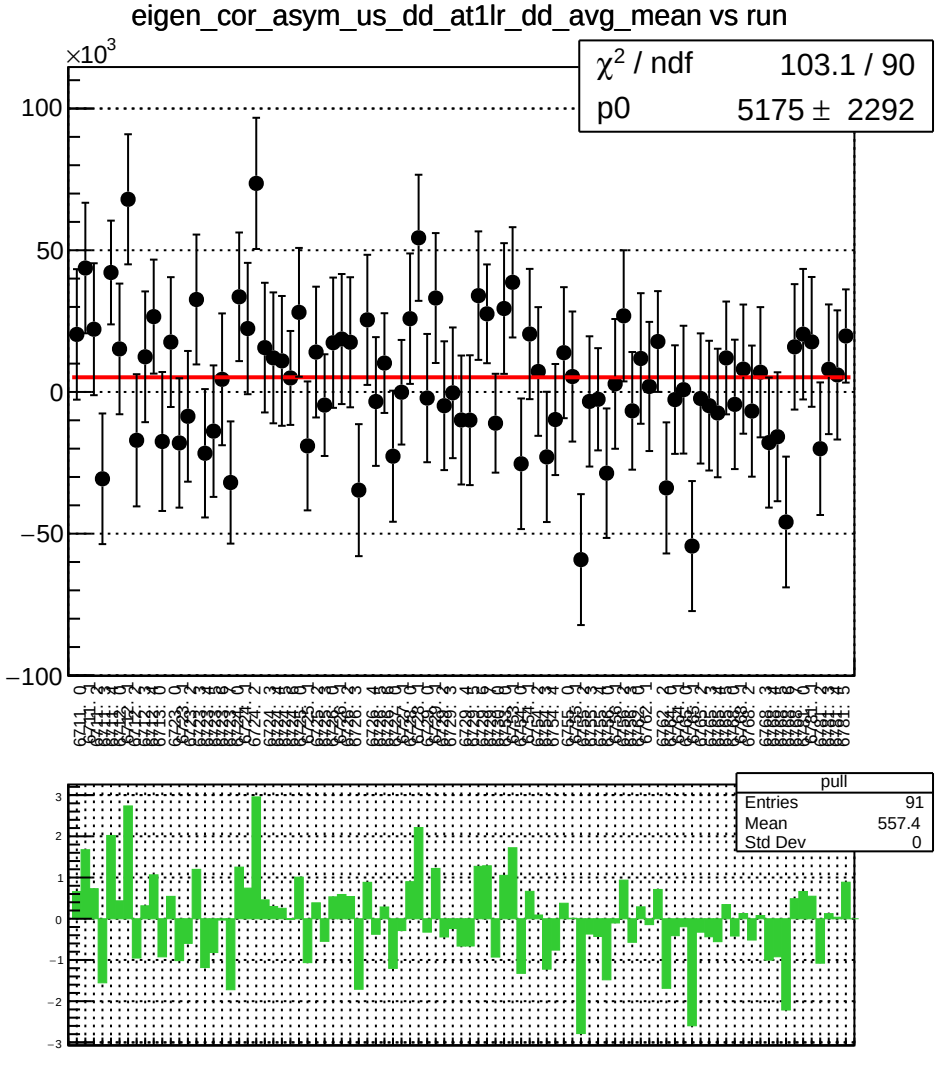

pull1D
Entries 91
Mean −0.01353
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

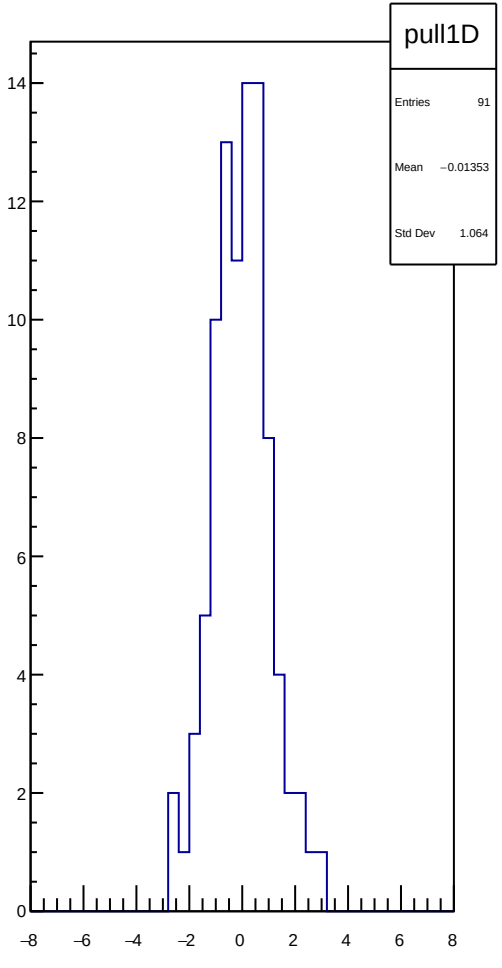

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 97.06 / 90
p0 2177 ± 1.621
2240
2220
2200
2180
2160
2140
2120

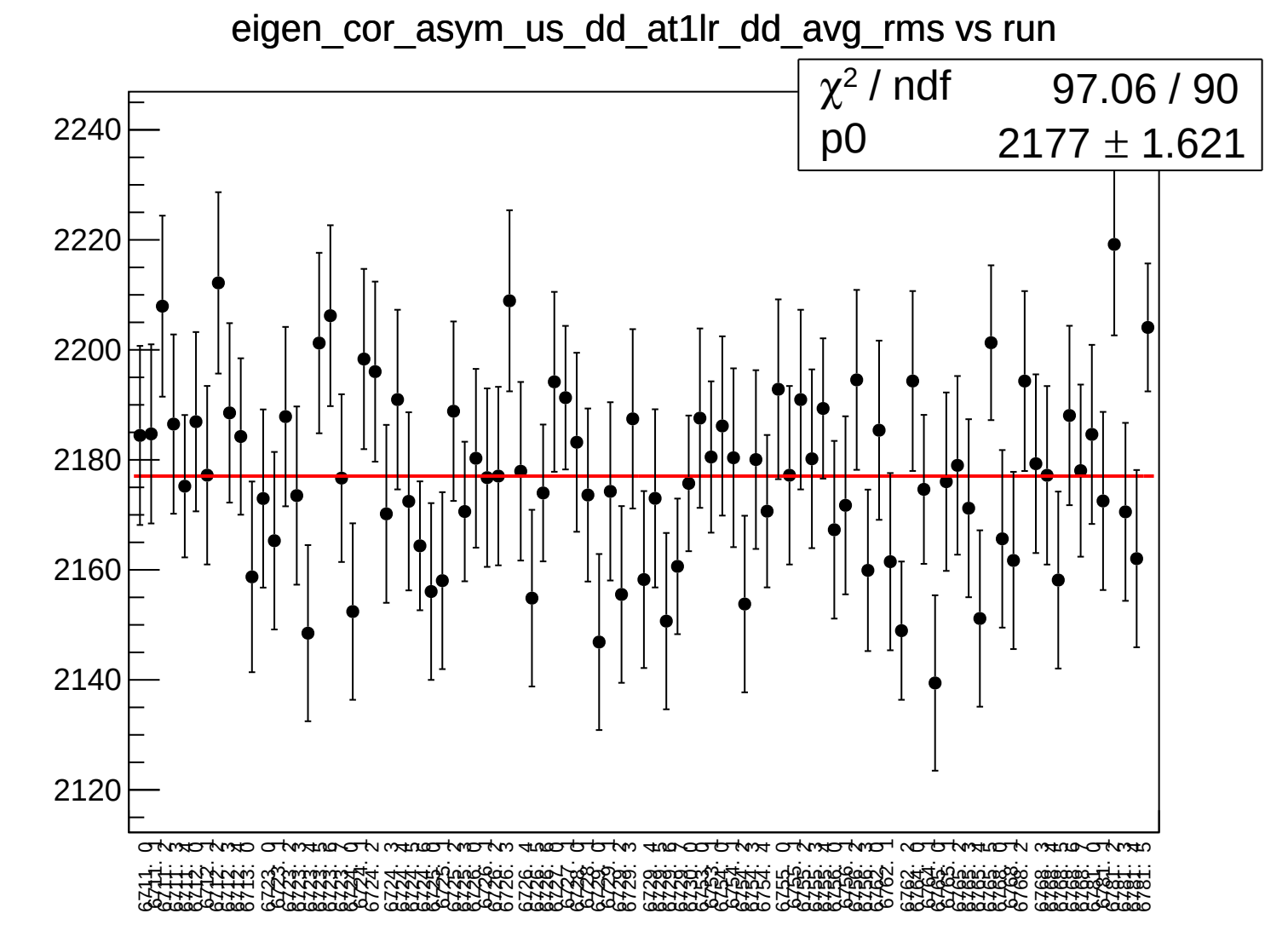

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 104.8 / 90
p0 −38.22 ± 139.5
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 104.5
Std Dev 8.104
3
2
1
0
−1
−2

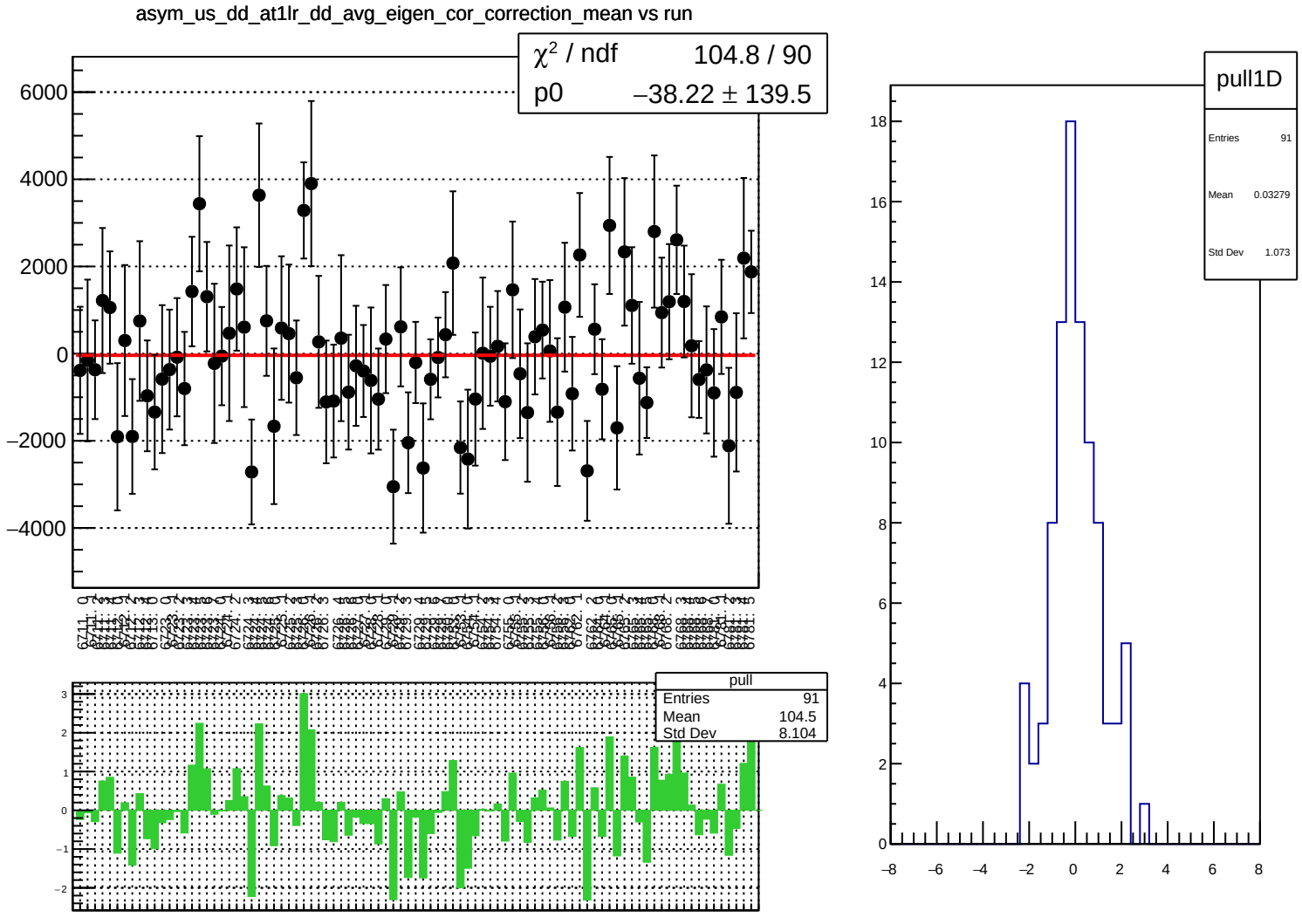

pull1D
Entries 91
Mean 0.03279
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

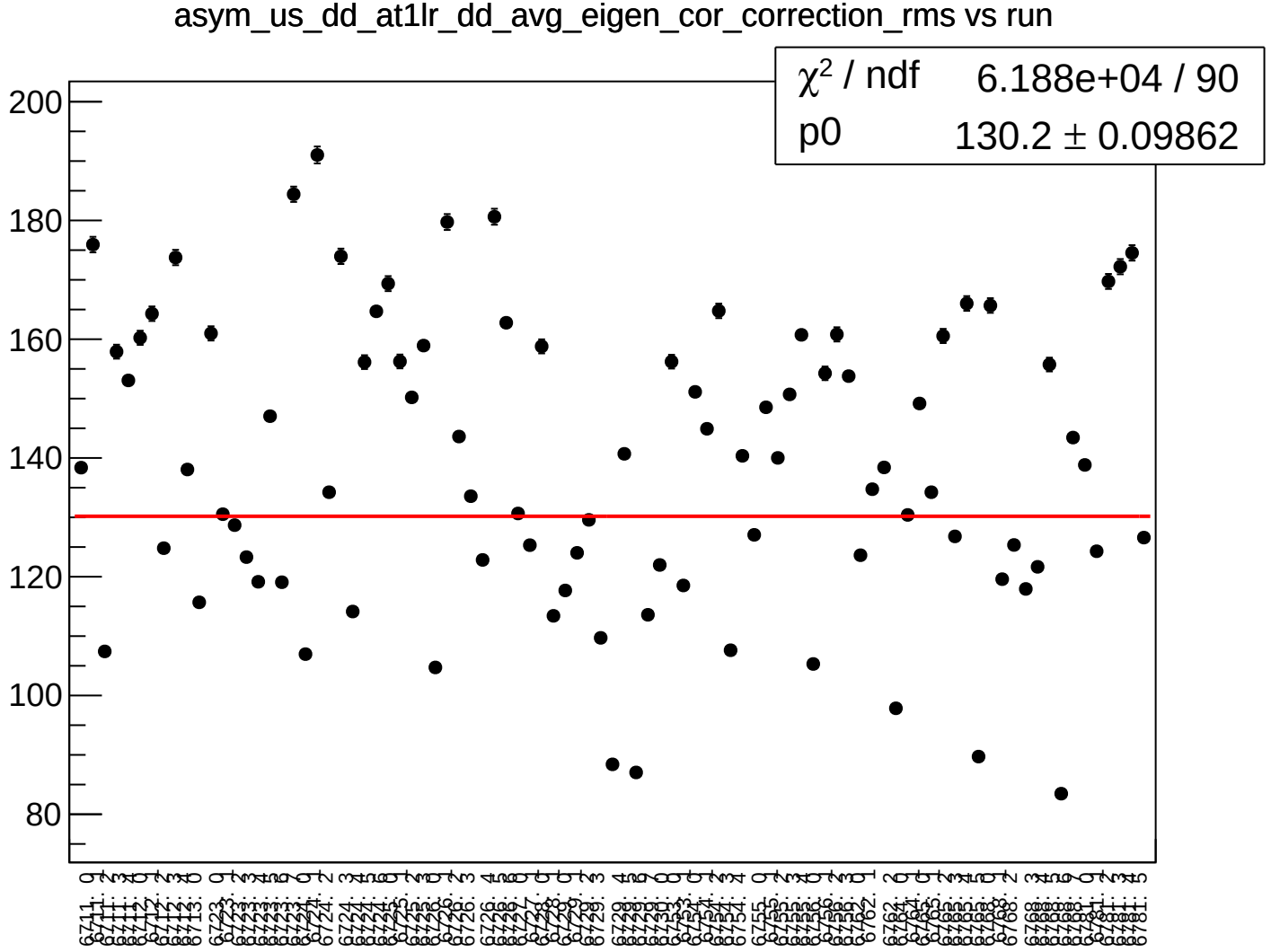

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 6.188e+04 / 90
p0 130.2 ± 0.09862
200
180
160
140
120
100
80

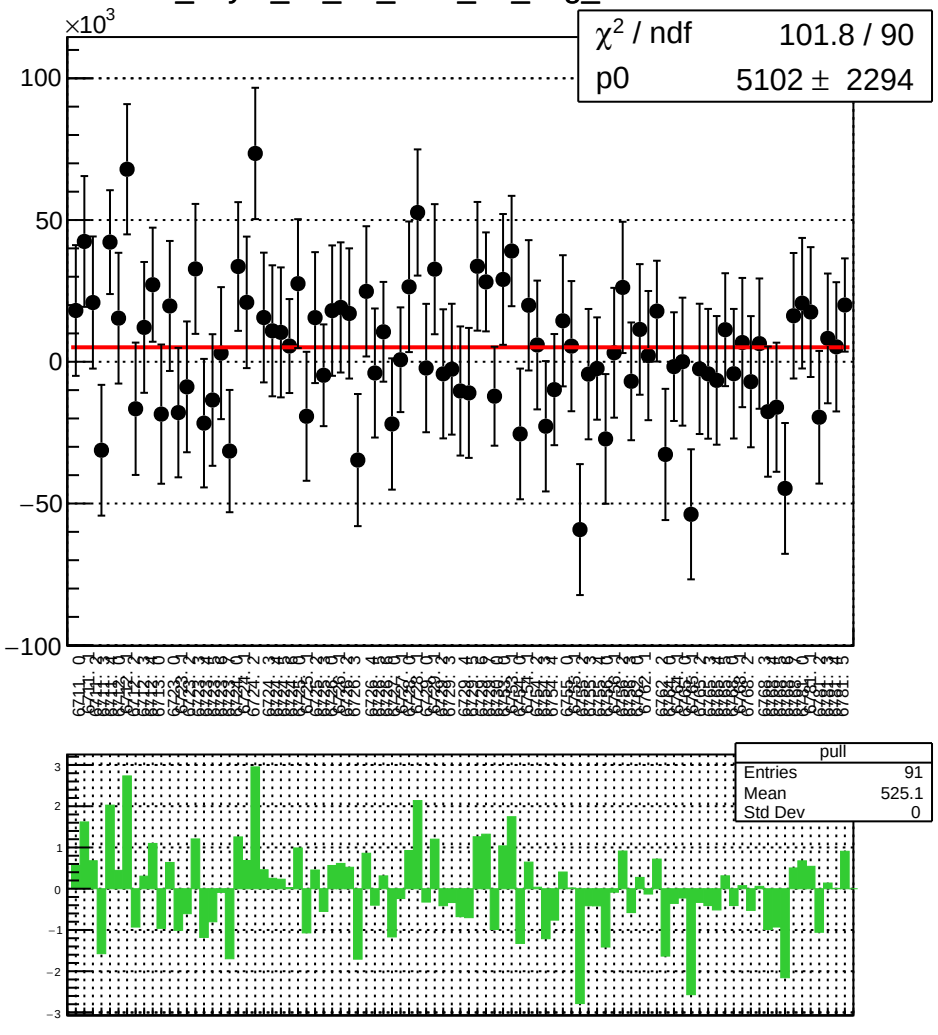

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 103.1 / 90
p0 5175 ± 2292
pull
Entries 91
Mean 557.4
Std Dev 0

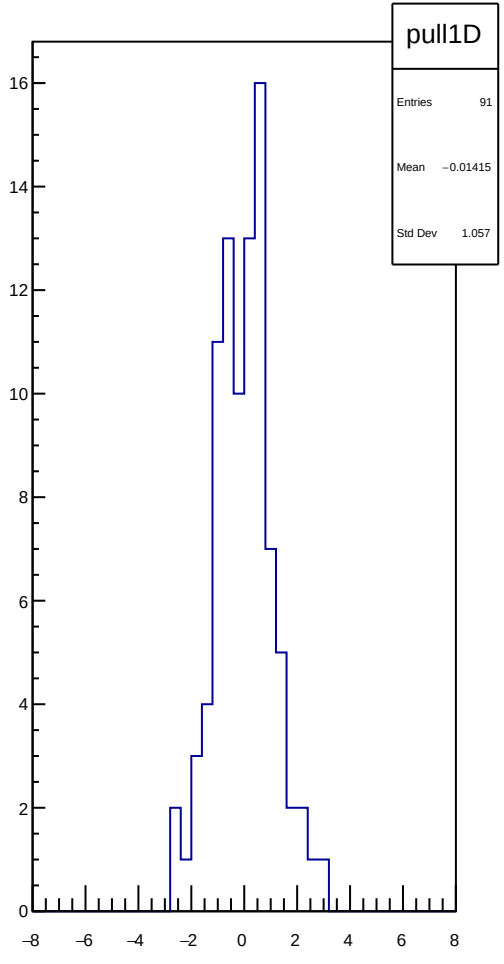

pull1D
Entries 91
Mean −0.01353
Std Dev 1.064

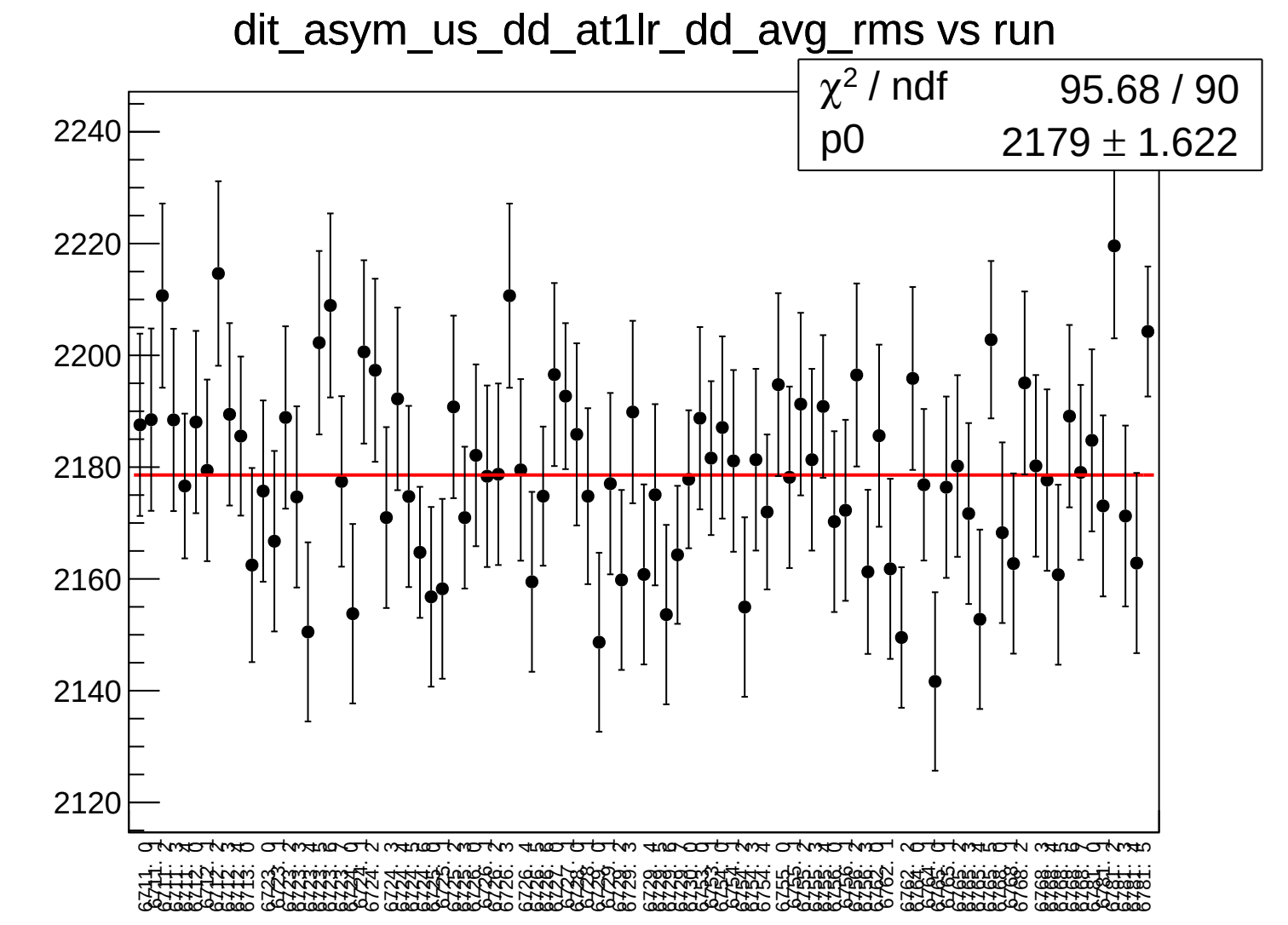

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 97.06 / 90
p0 2177 ± 1.621
2240
2220
2200
2180
2160
2140
2120

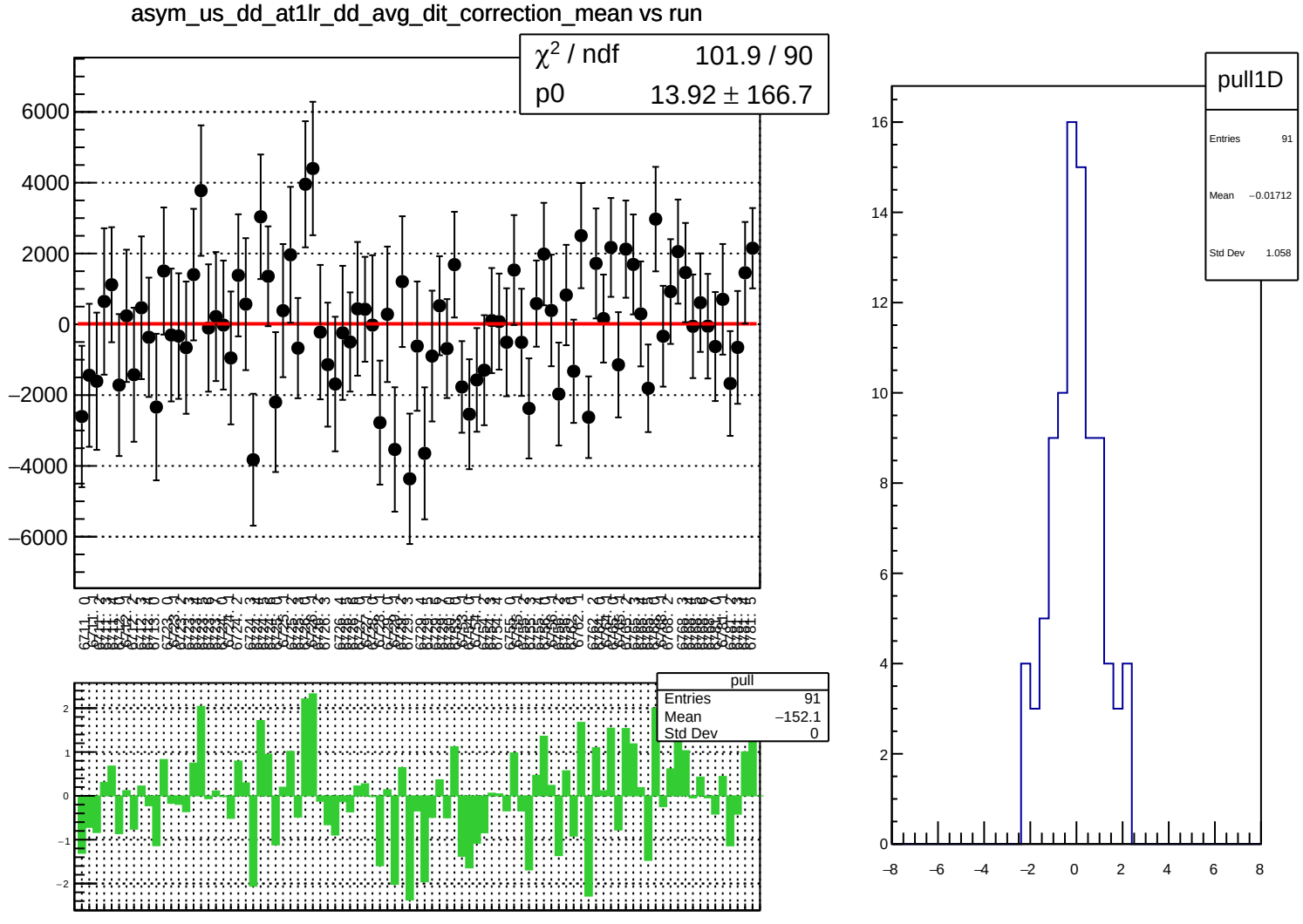

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 104.8 / 90
p0 −38.22 ± 139.5
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 104.5
Std Dev 8.104
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.03279
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

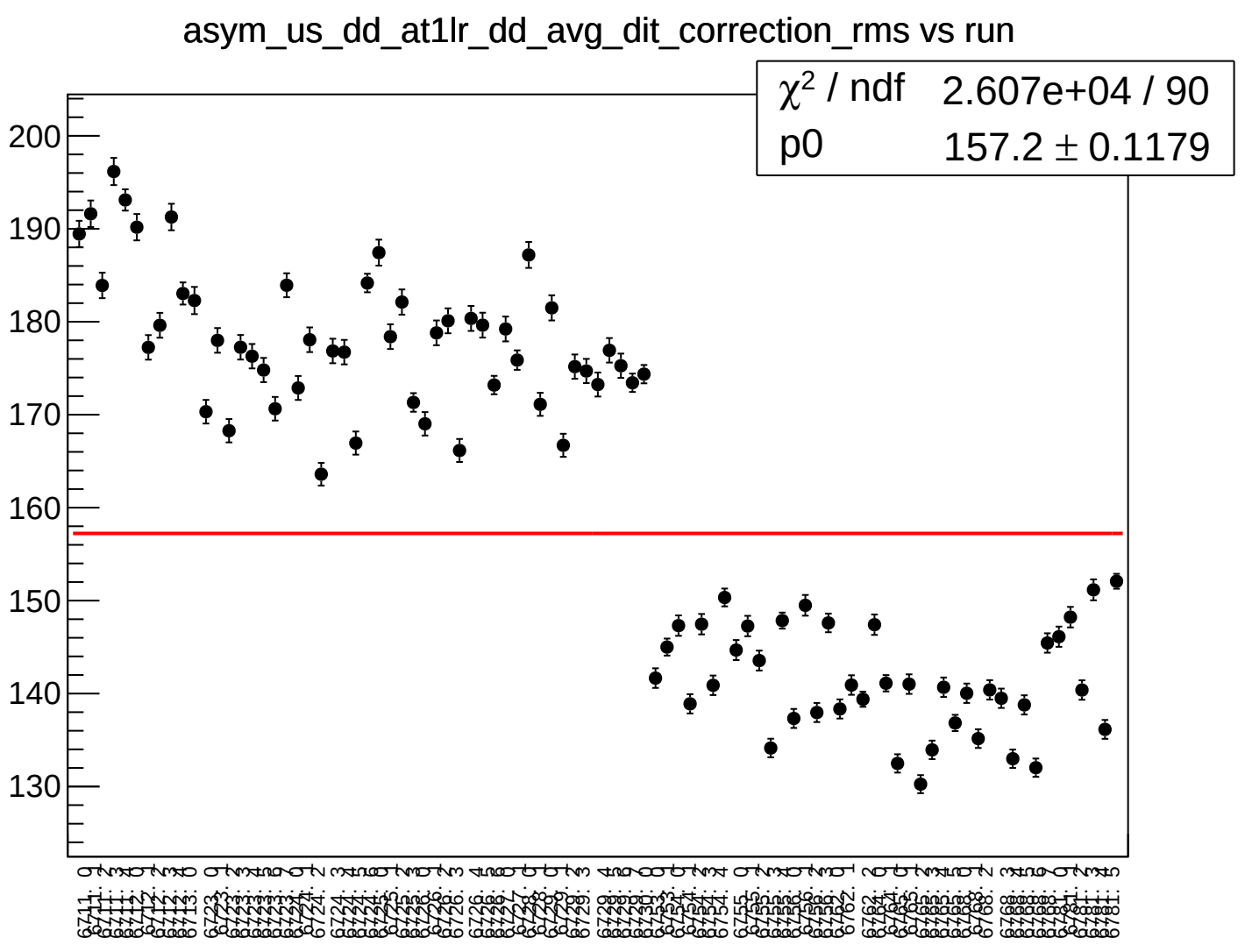

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.188e+04 / 90
p0 130.2 ± 0.09862
200
180
160
140
120
100
80

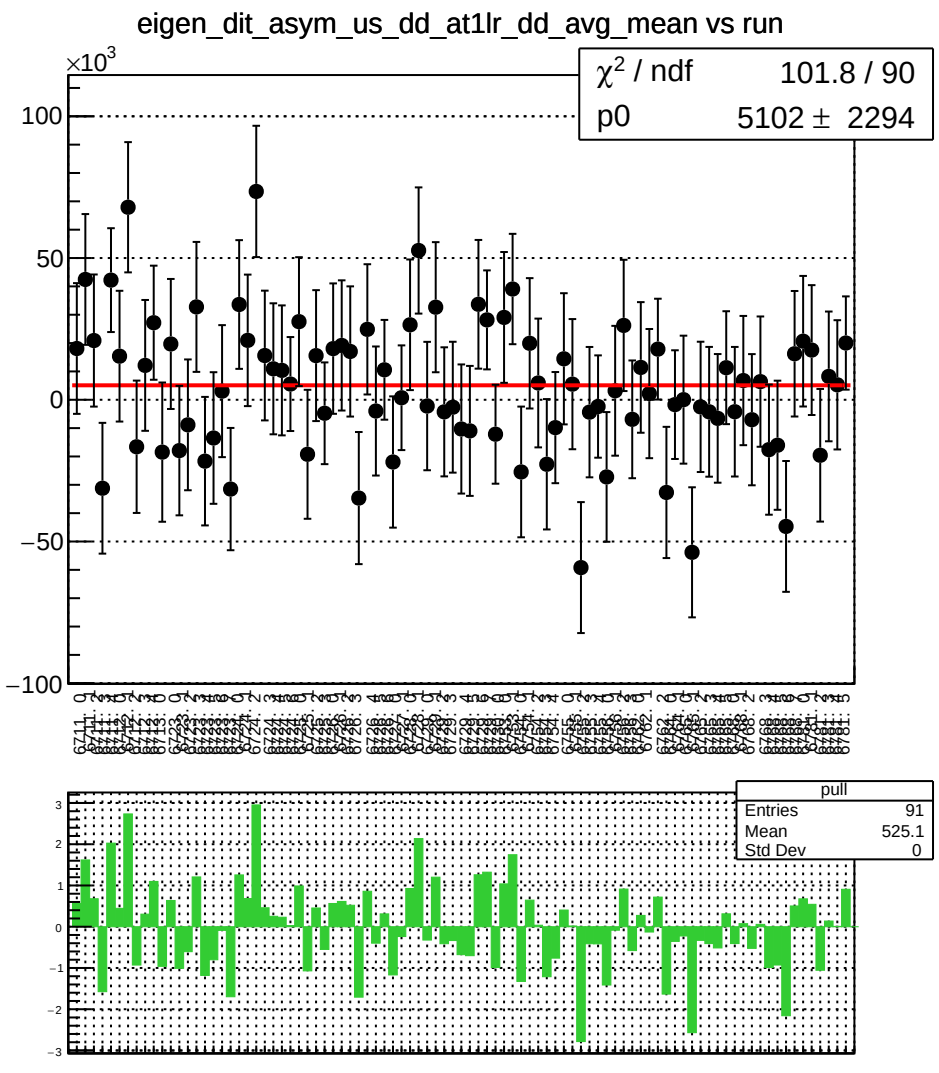

dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 101.8 / 90
p0 5102 ± 2294
100
50
0
−50
−100
pull
Entries 91
Mean 525.1
Std Dev 0
3
2
1
0
−1
−2
−3

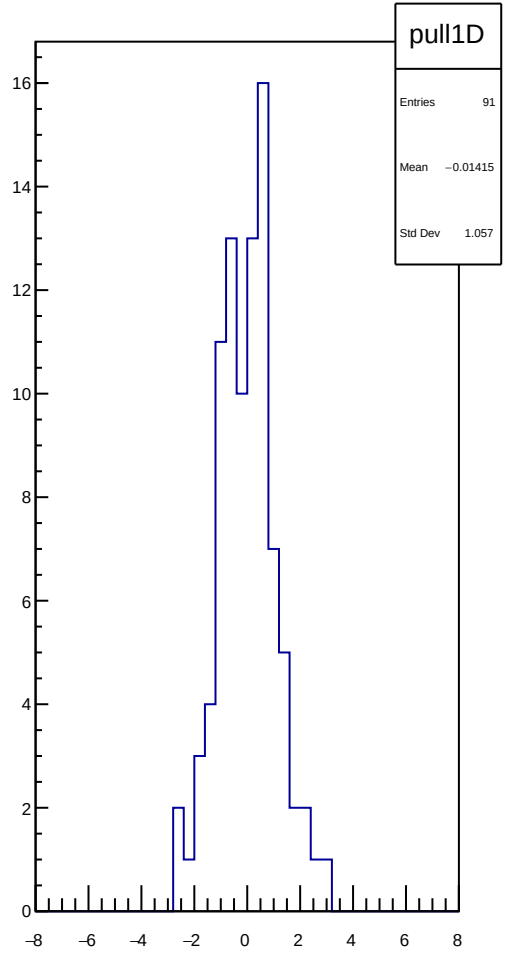

pull1D
Entries 91
Mean −0.01415
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

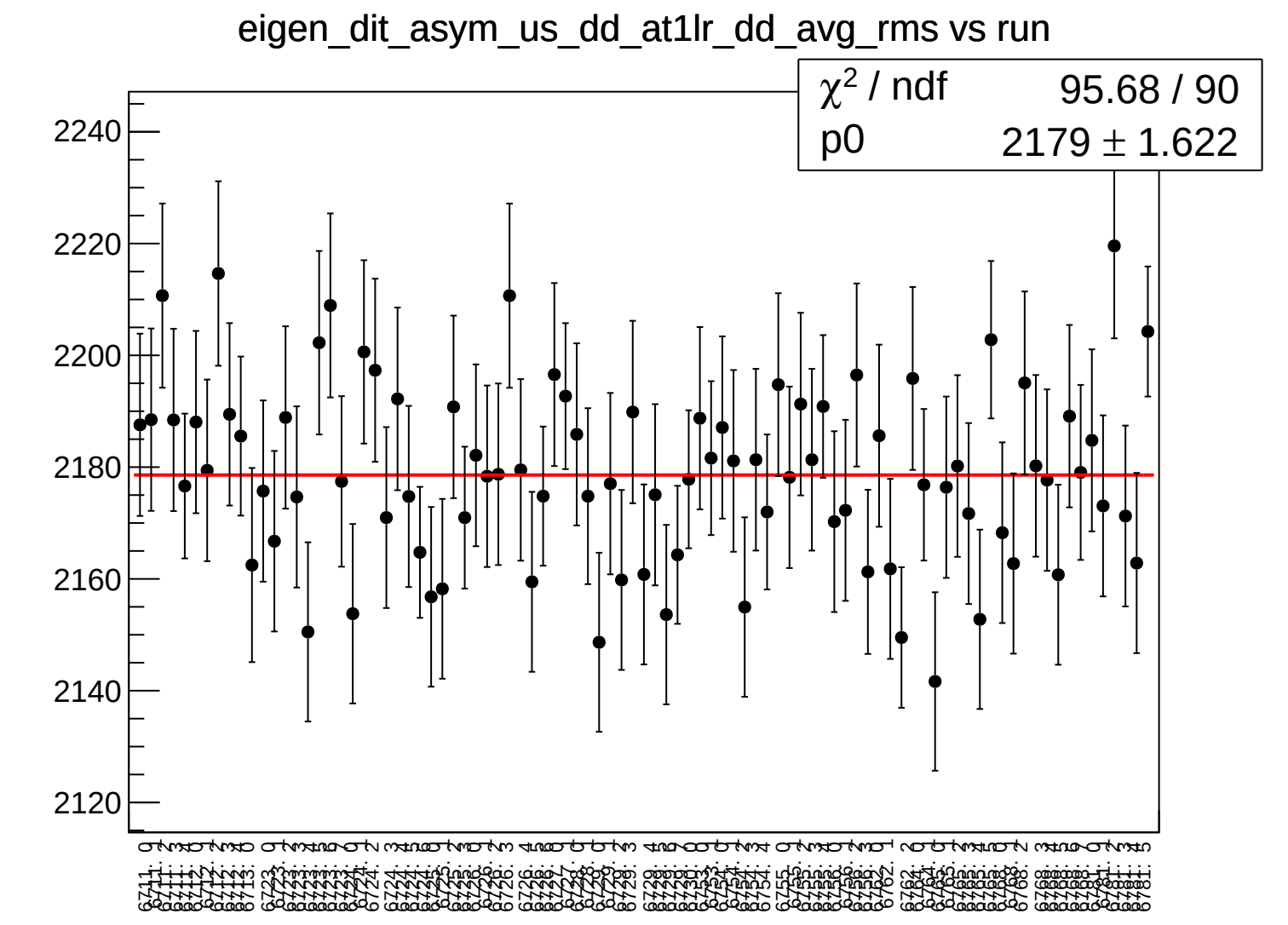

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 95.68 / 90
p0 2179 ± 1.622
2240
2220
2200
2180
2160
2140
2120

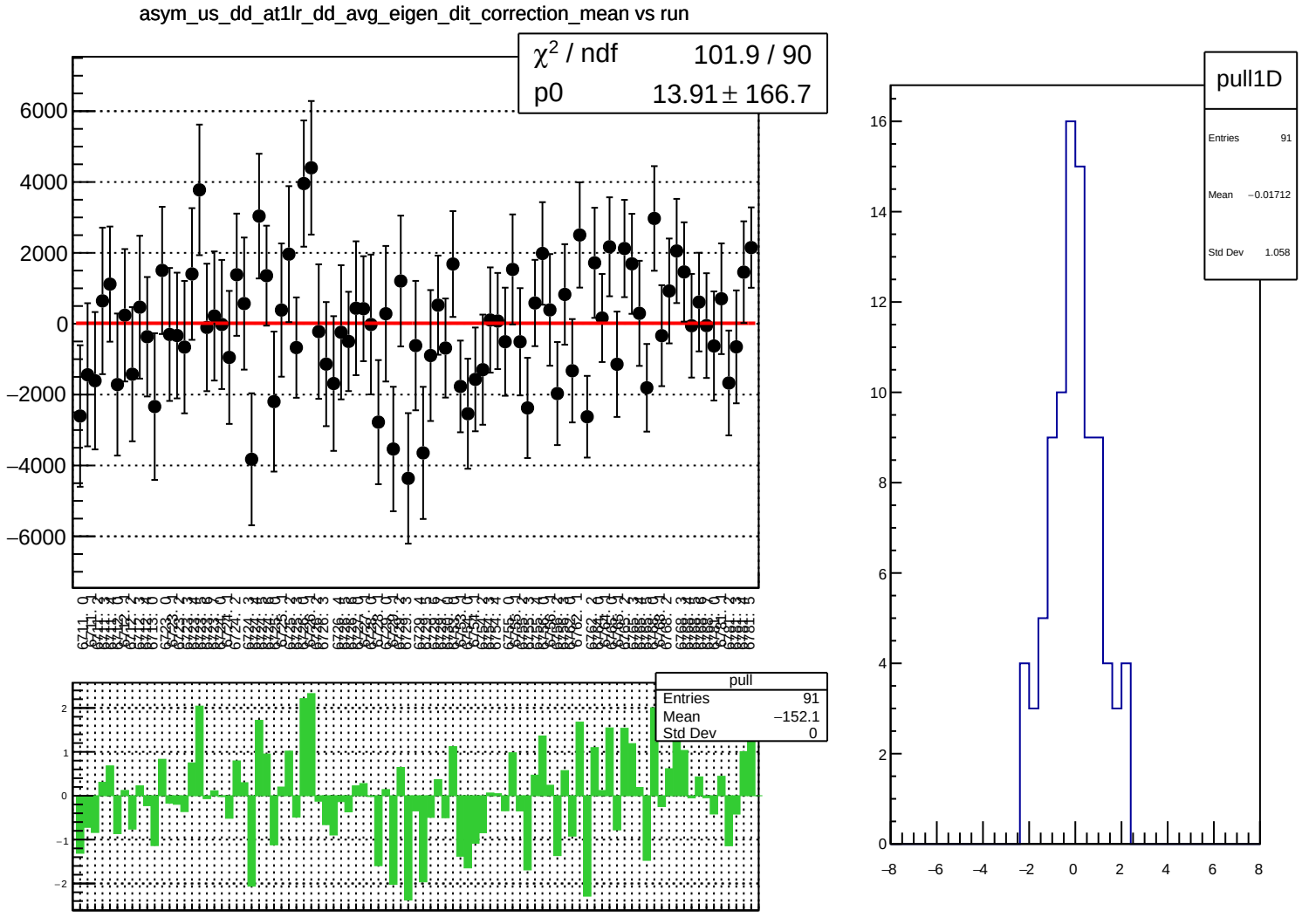

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 101.9 / 90
p0 13.92 ± 166.7
pull
Entries 91
Mean −152.1
Std Dev 0
pull1D
Entries 91
Mean −0.01712
Std Dev 1.058

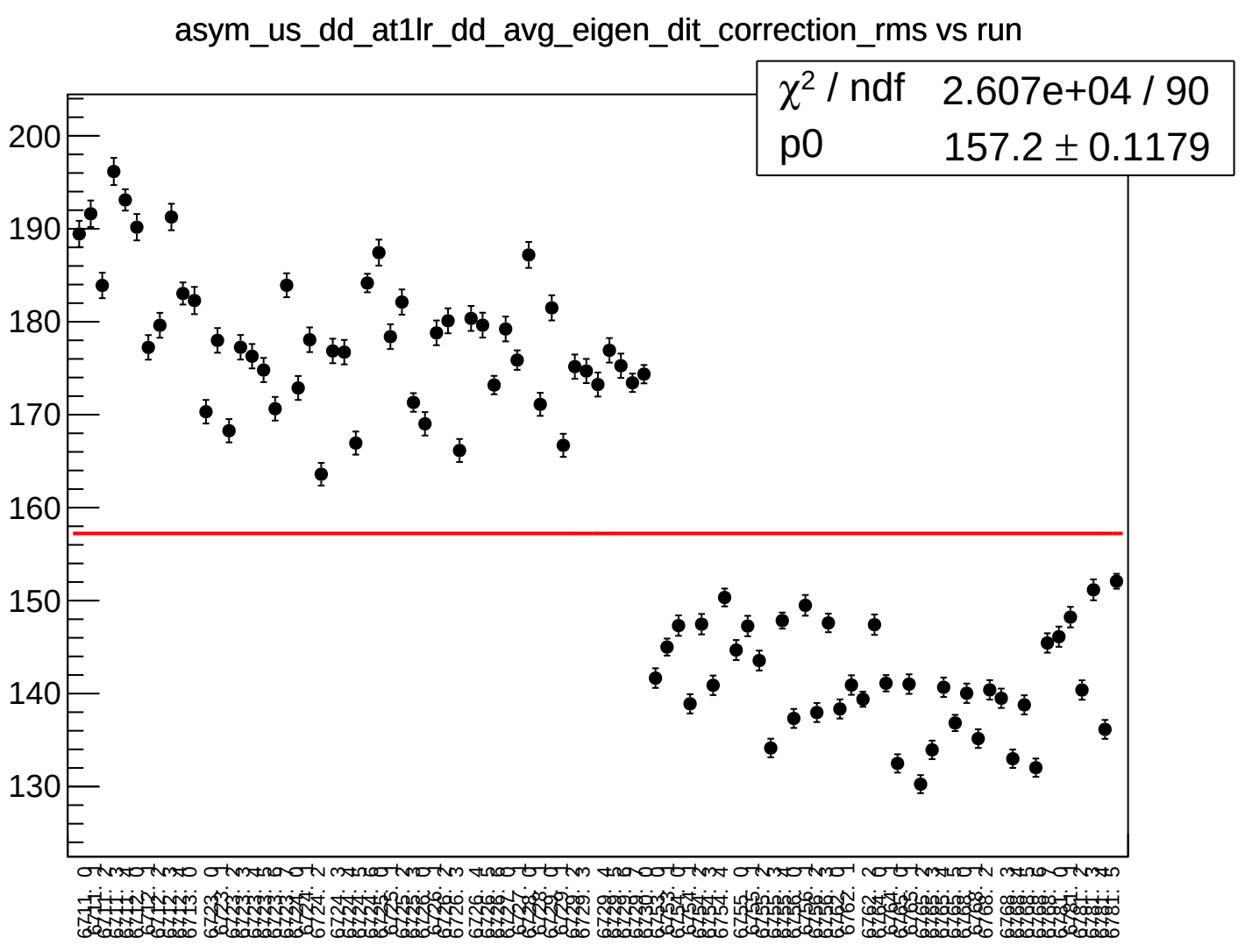

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2.607e+04 / 90
p0 157.2 ± 0.1179
200
190
180
170
160
150
140
130

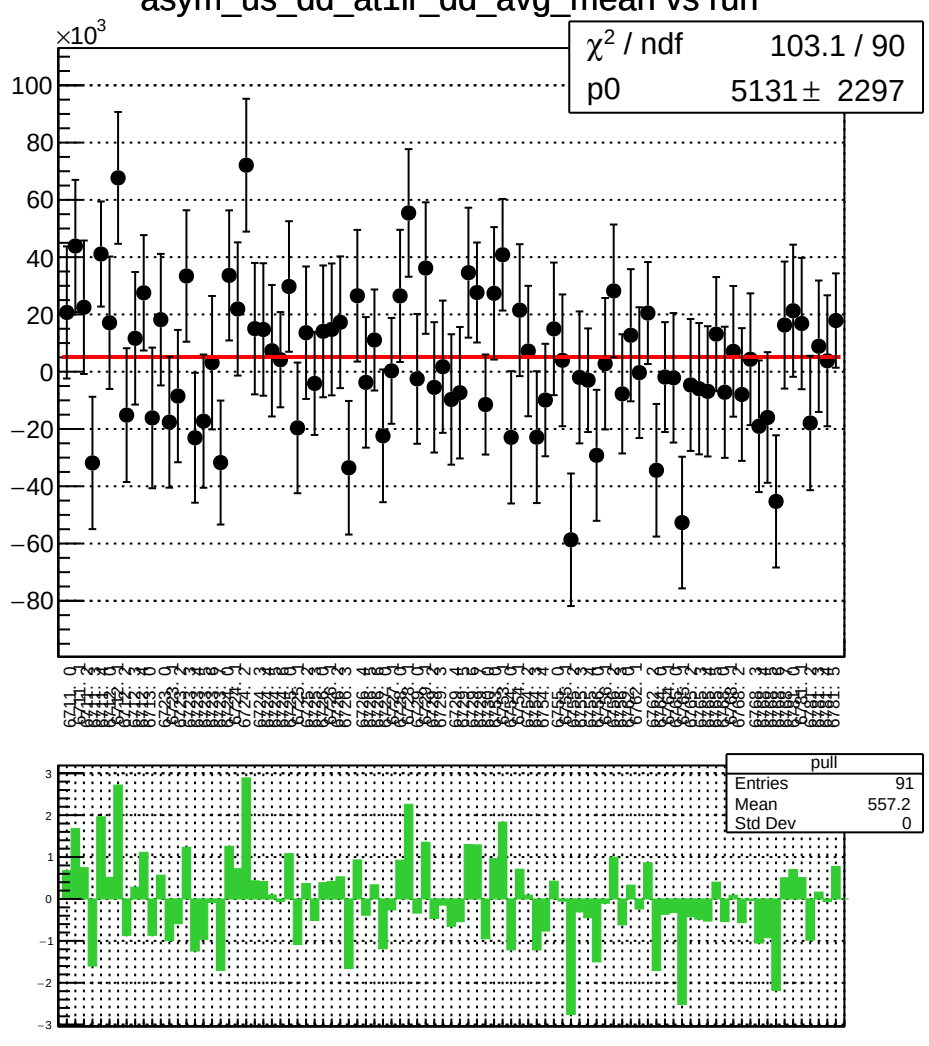

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 101.8 / 90
p0 5102 ± 2294
100
50
0
−50
−100
pull
Entries 91
Mean 525.1
Std Dev 0
3
2
1
0
−1
−2
−3

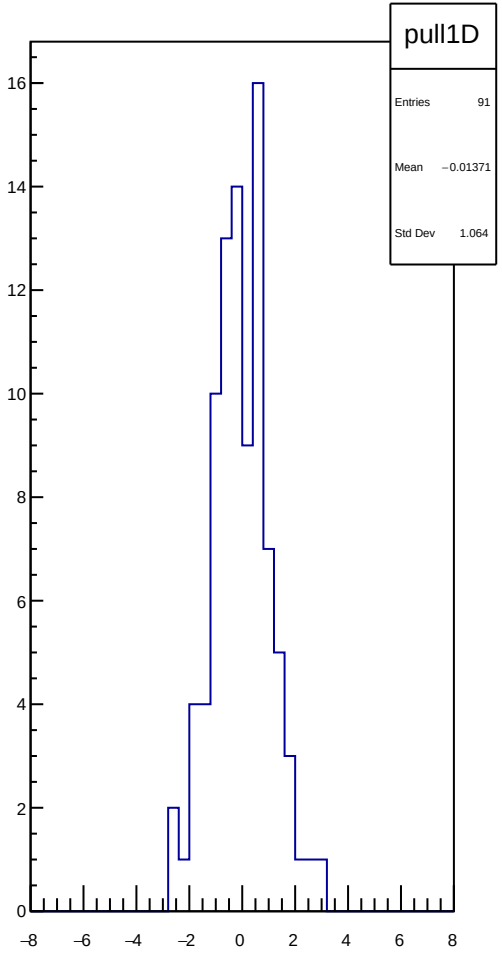

pull1D
Entries 91
Mean −0.01415
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

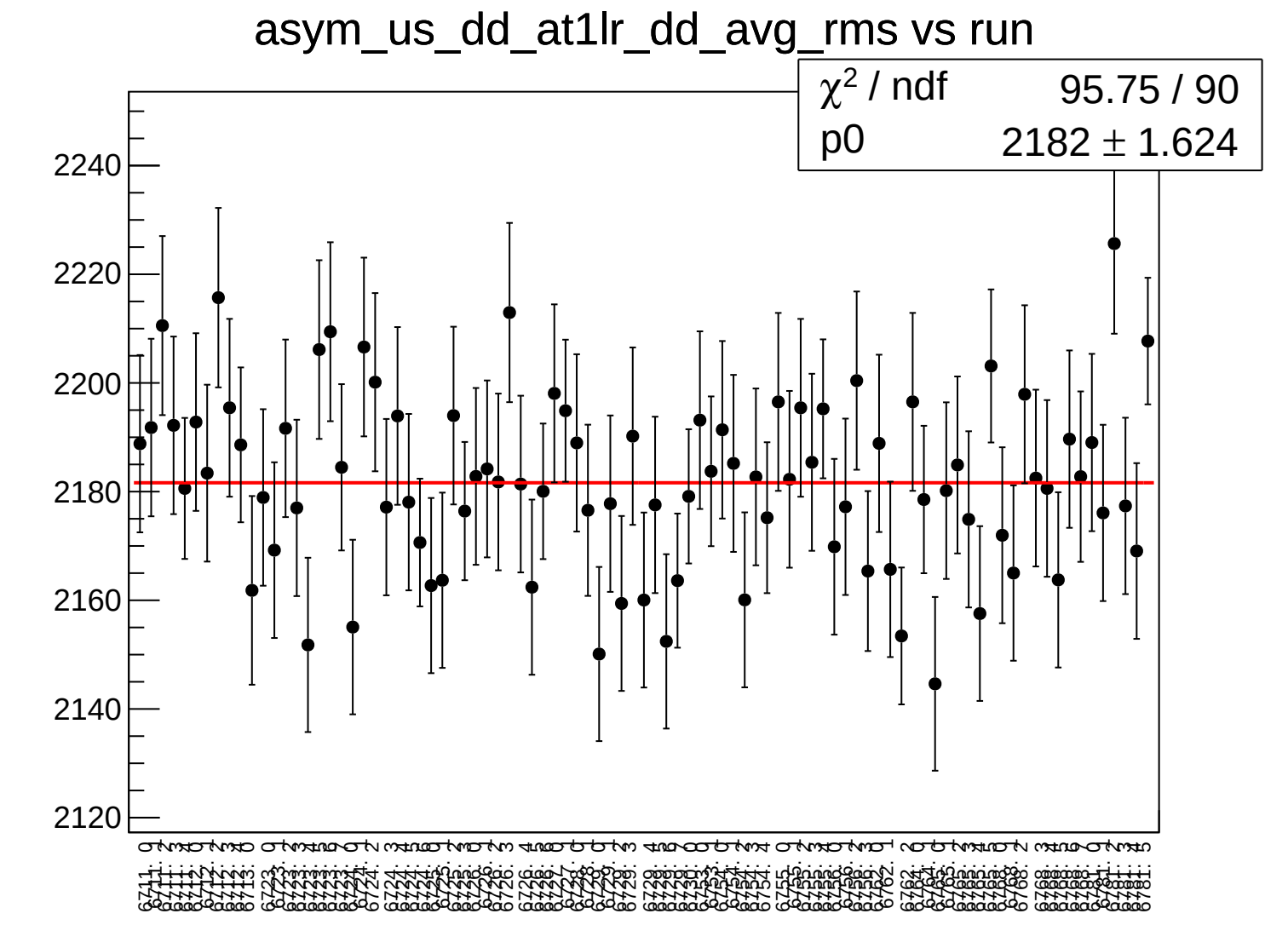

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 95.68 / 90
p0 2179 ± 1.622
2240
2220
2200
2180
2160
2140
2120

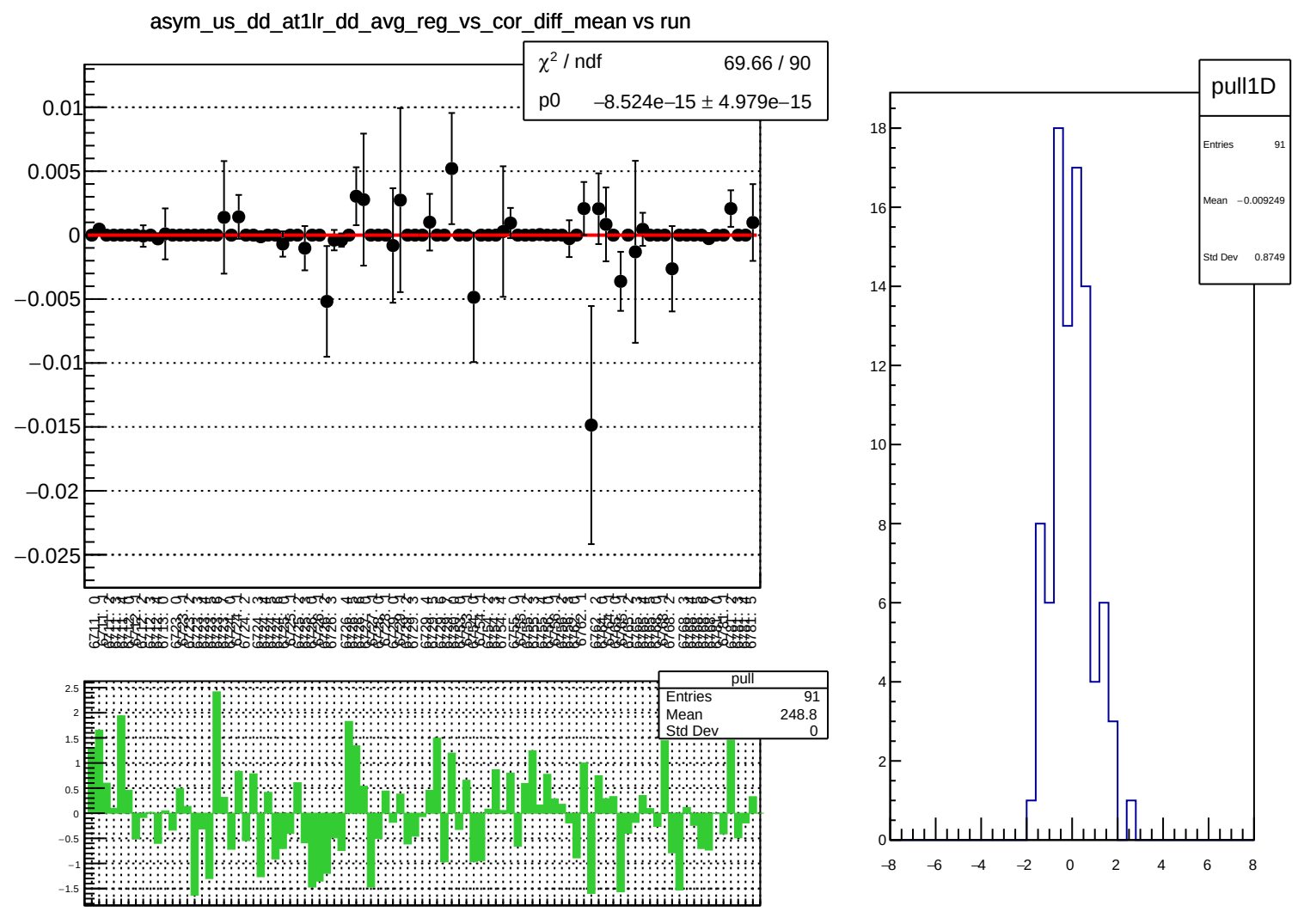

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 101.9 / 90
p0 13.91 ± 166.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −152.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.01712
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

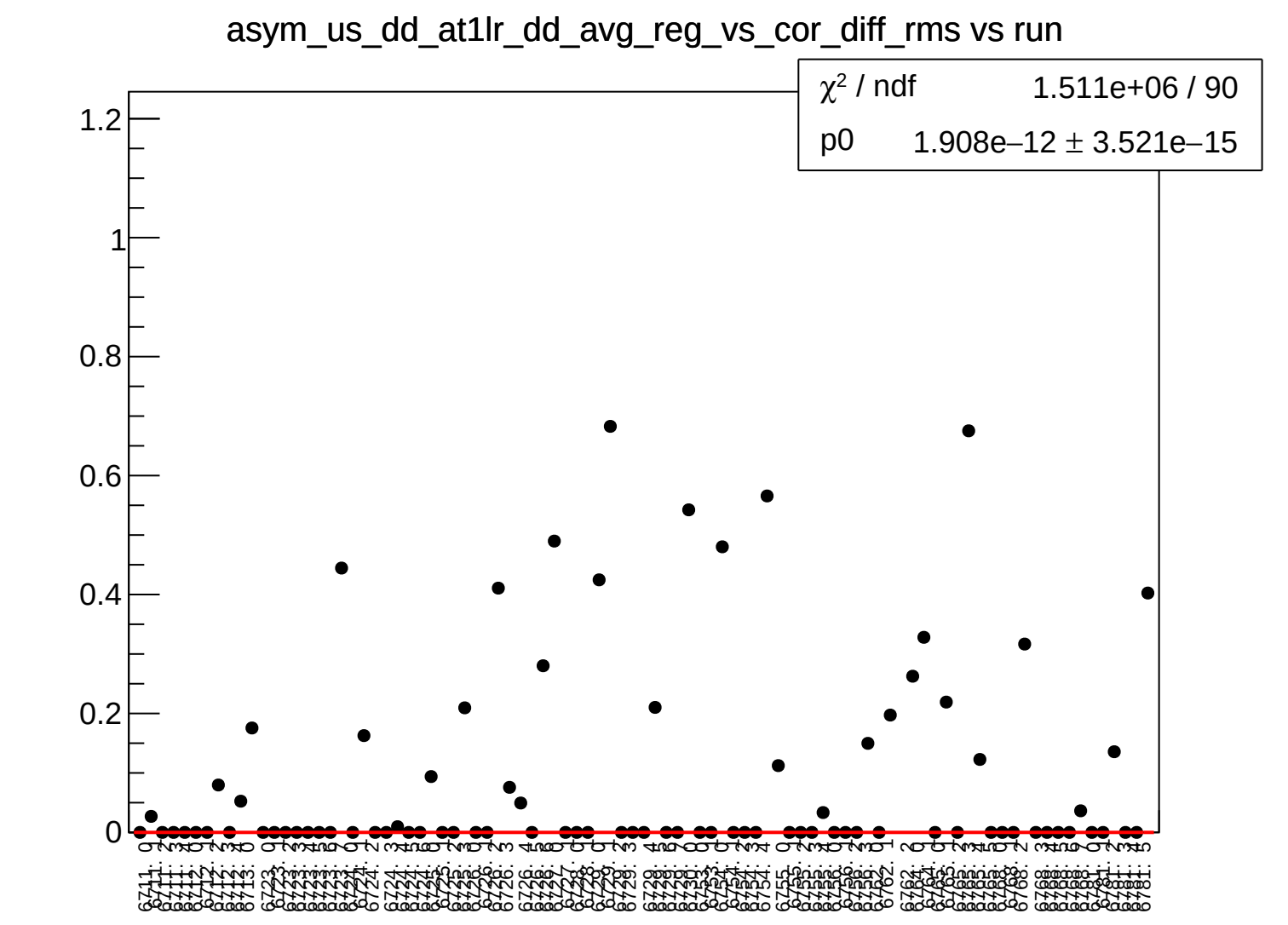

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.607e+04 / 90
p0 157.2 ± 0.1179
200
190
180
170
160
150
140
130

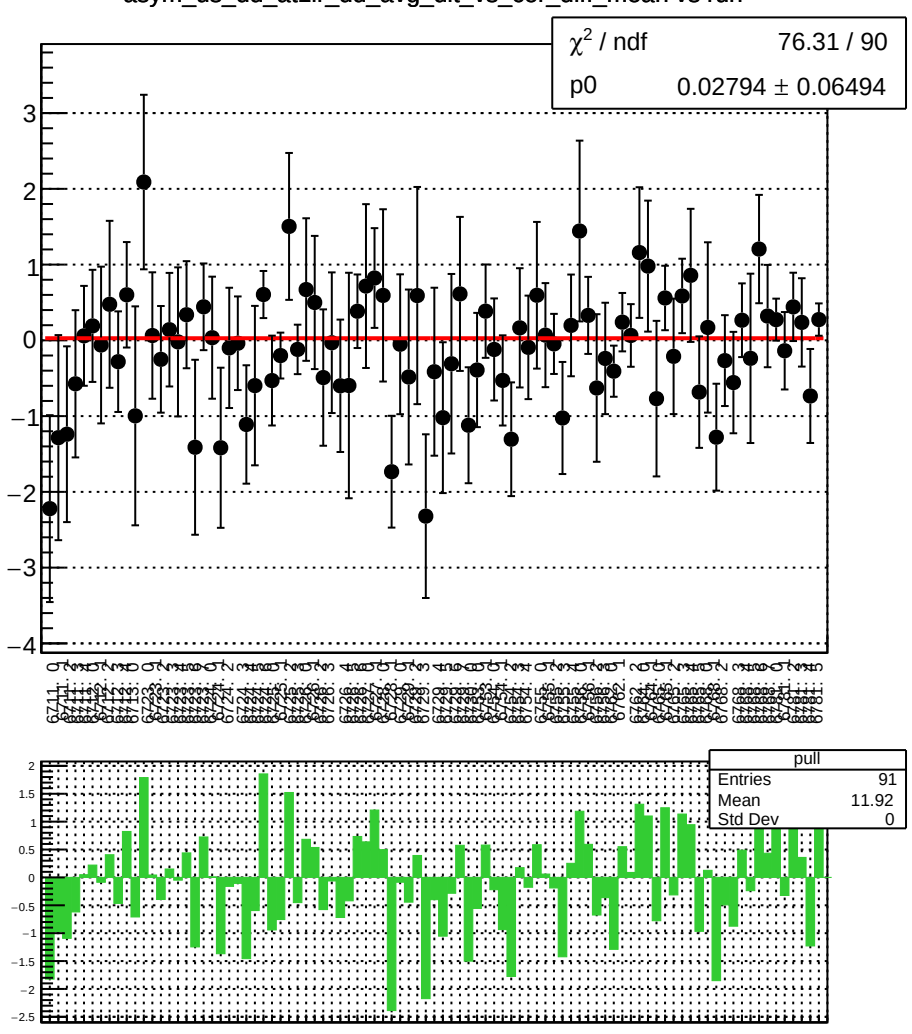

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 103.1 / 90
p0 5131 ± 2297
×10³
pull
Entries 91
Mean 557.2
Std Dev 0

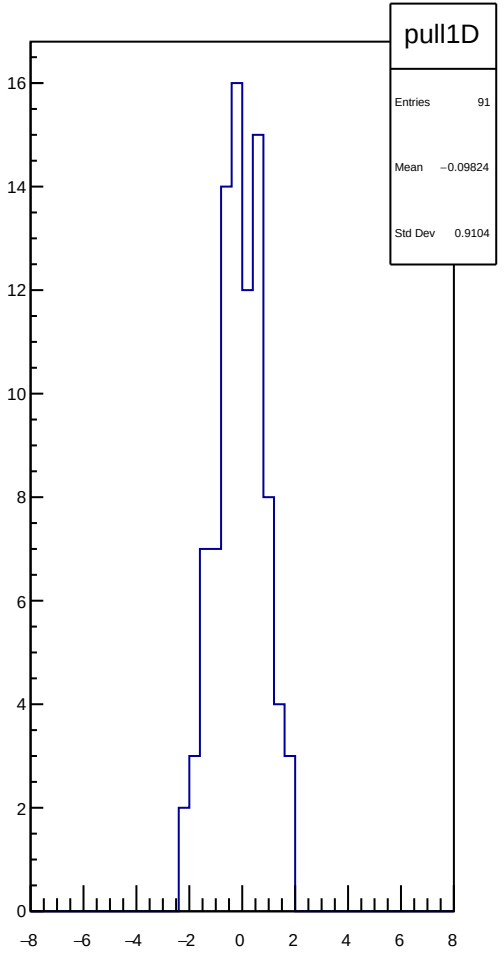

pull1D
Entries 91
Mean −0.01371
Std Dev 1.064

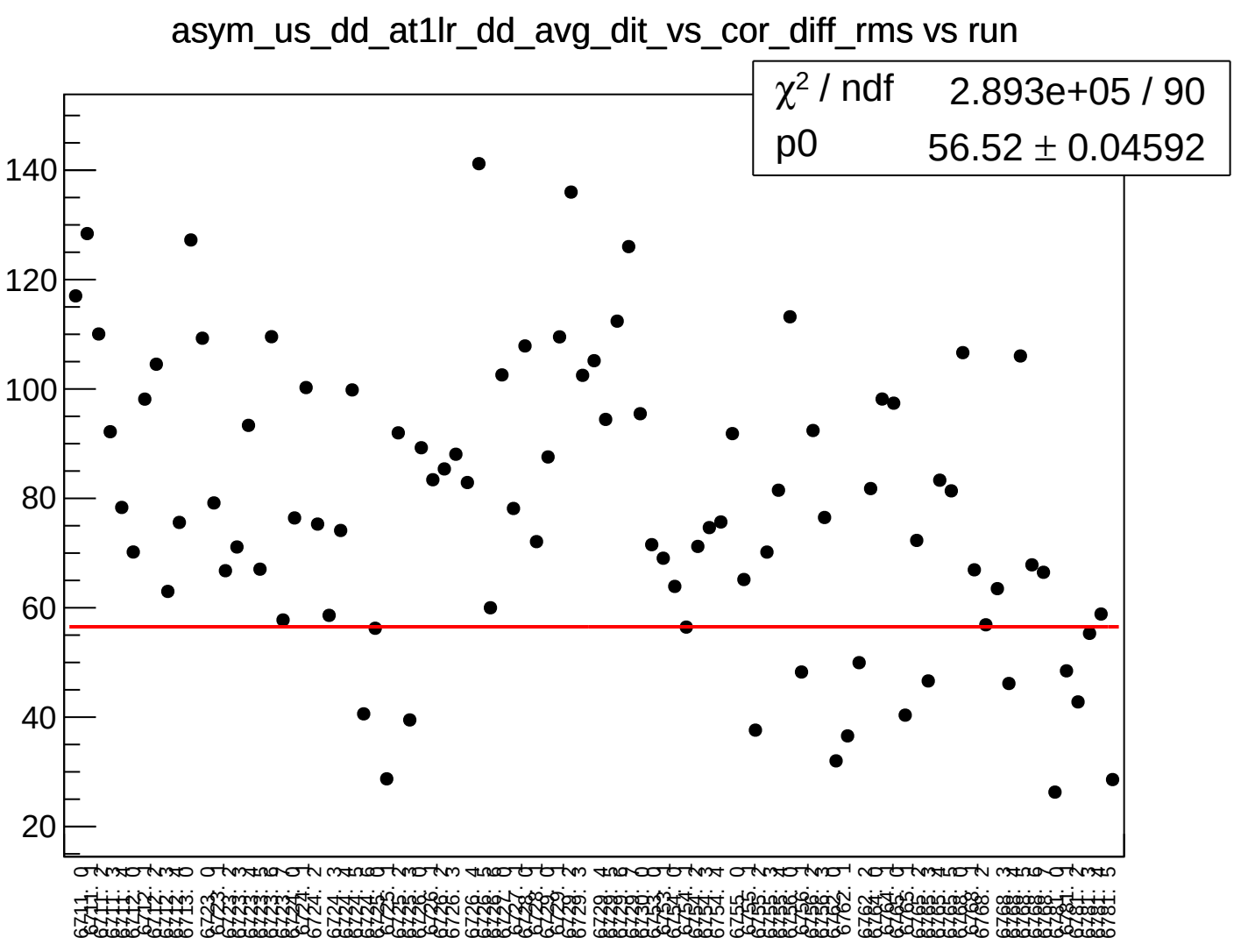

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 95.75 / 90
p0 2182 ± 1.624
2240
2220
2200
2180
2160
2140
2120

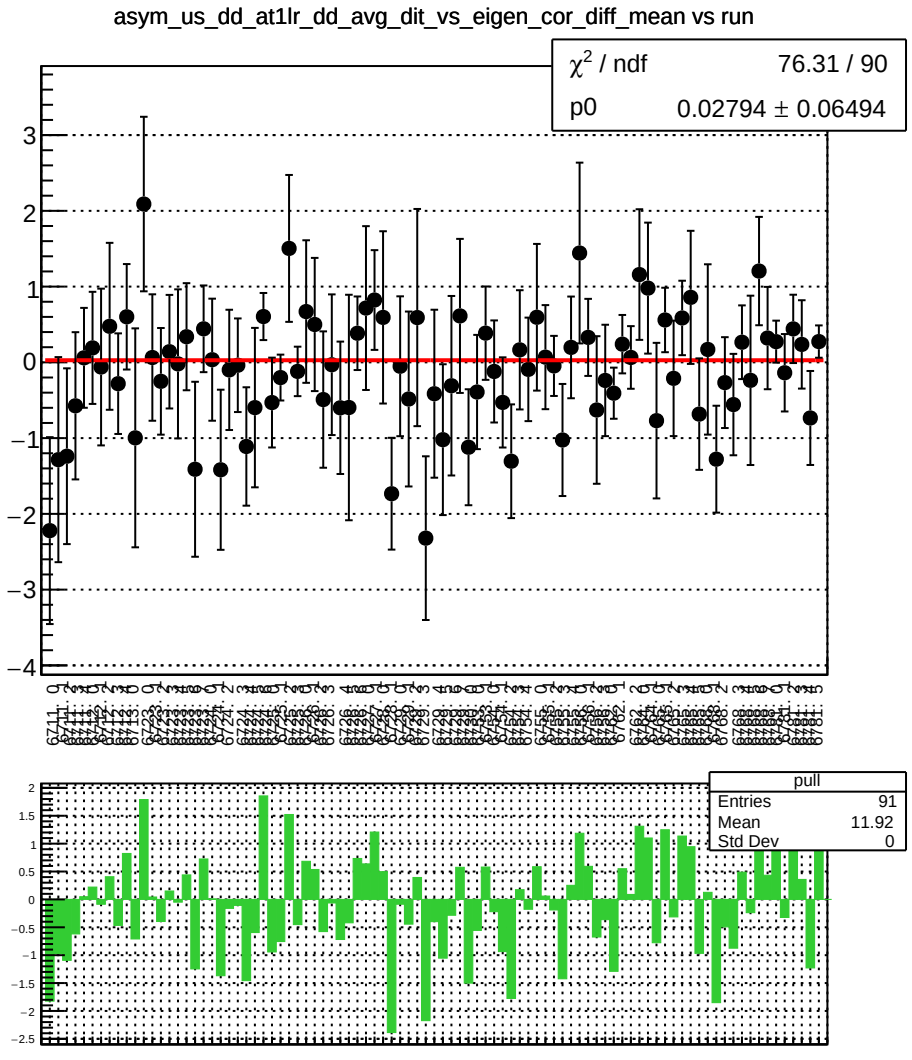

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 69.66 / 90
p0 −8.524e−15 ± 4.979e−15
pull
Entries 91
Mean 248.8
Std Dev 0
pull1D
Entries 91
Mean −0.009249
Std Dev 0.8749

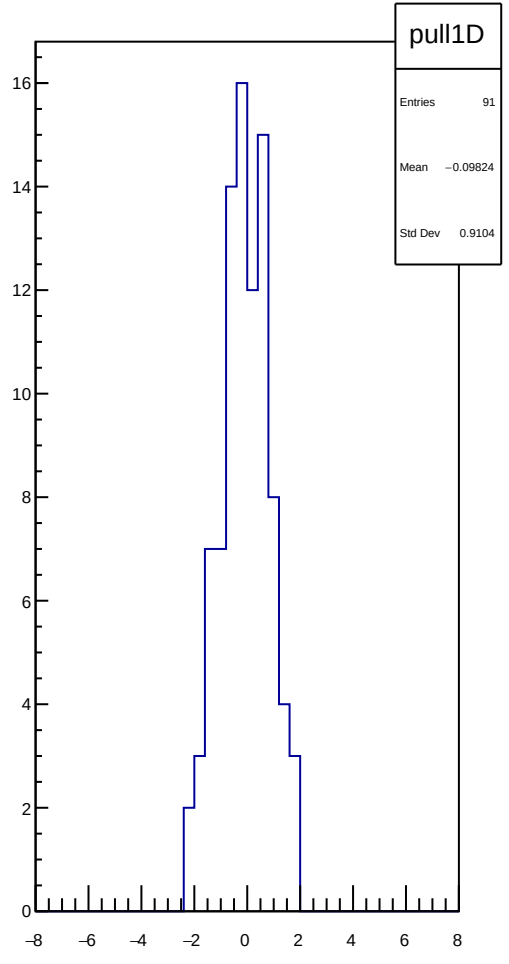

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.511e+06 / 90
p0 1.908e−12 ± 3.521e−15
1.2
1
0.8
0.6
0.4
0.2
0

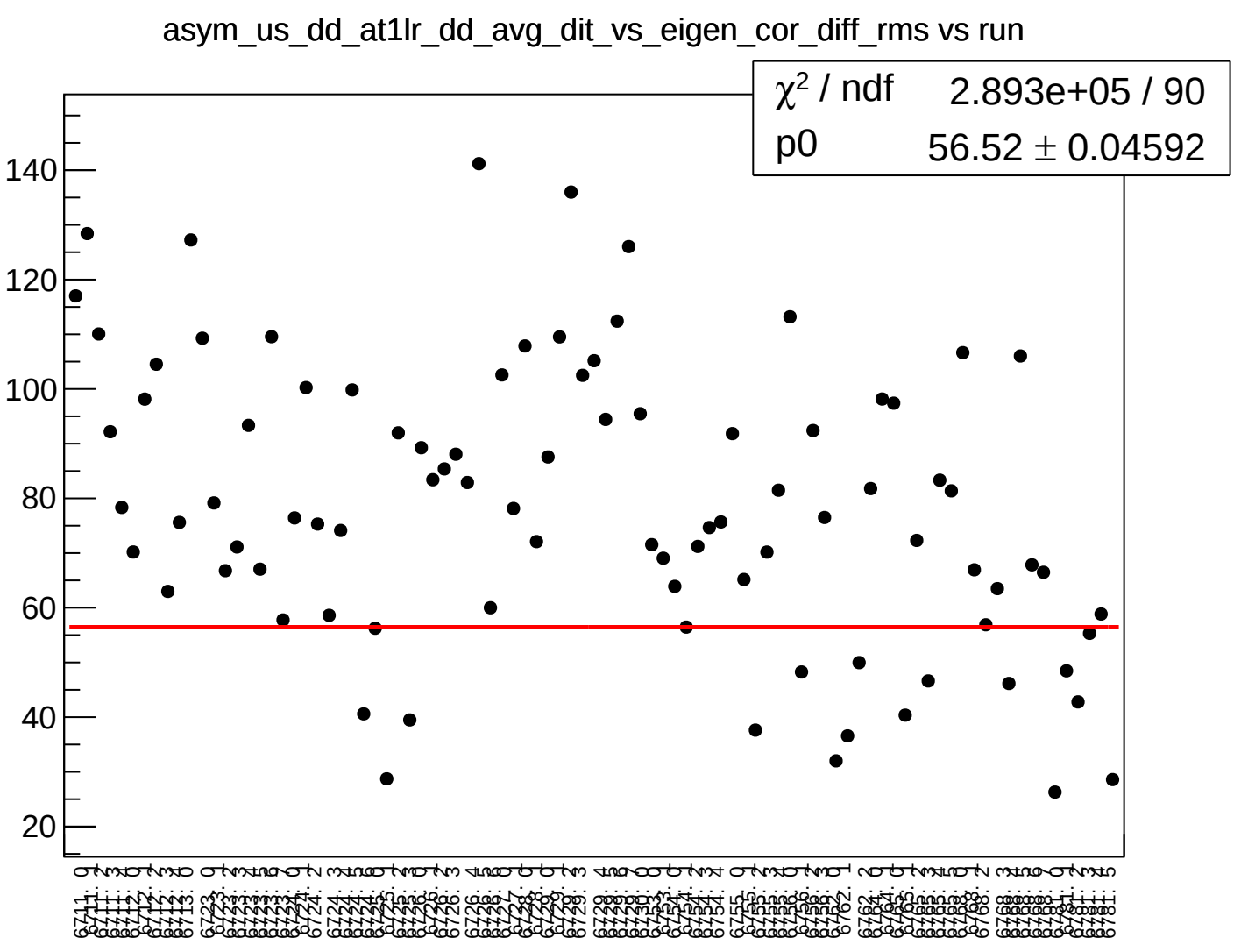

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.31 / 90
p0 0.02794 ± 0.06494
pull
Entries 91
Mean 11.92
Std Dev 0

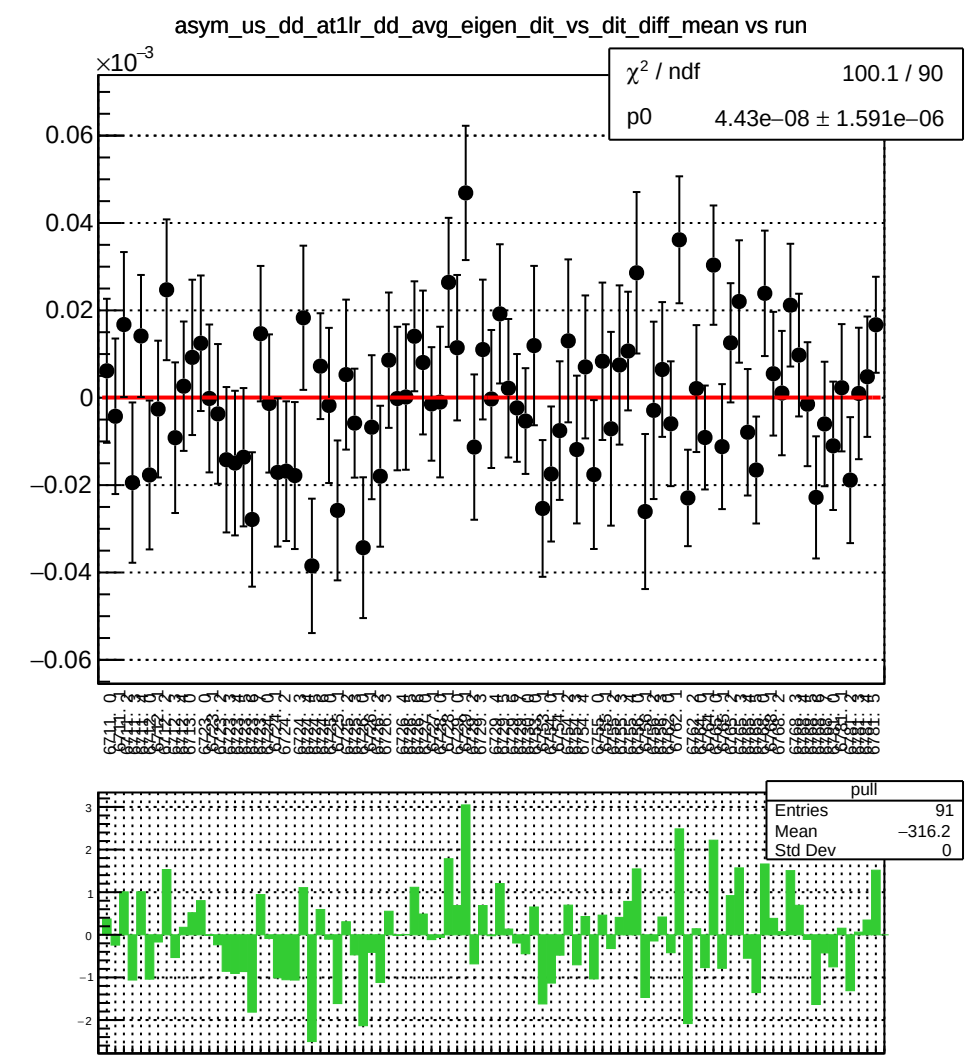

pull1D
Entries 91
Mean −0.09824
Std Dev 0.9104

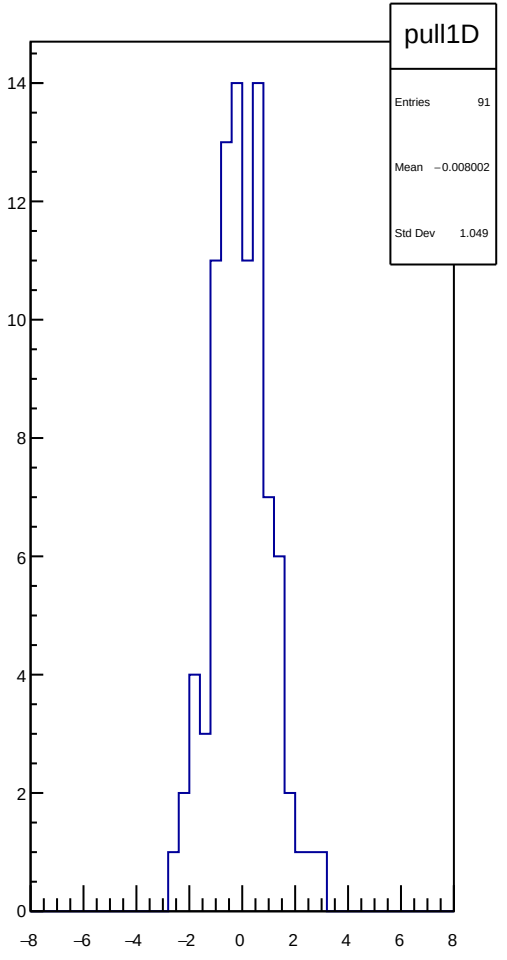

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.893e+05 / 90
p0 56.52 ± 0.04592
140
120
100
80
60
40
20

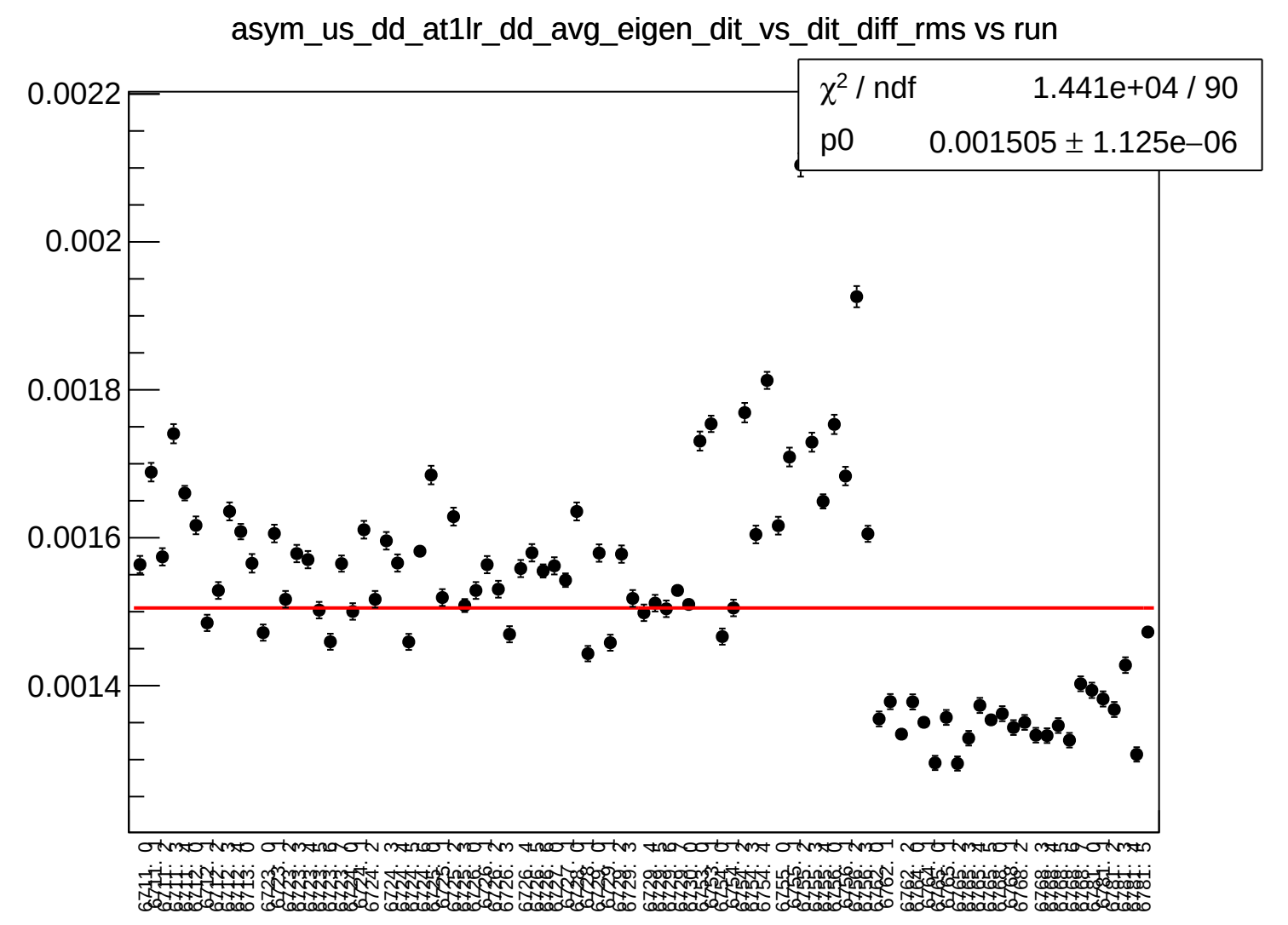

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.31 / 90
p0 0.02794 ± 0.06494
pull
Entries 91
Mean 11.92
Std Dev 0

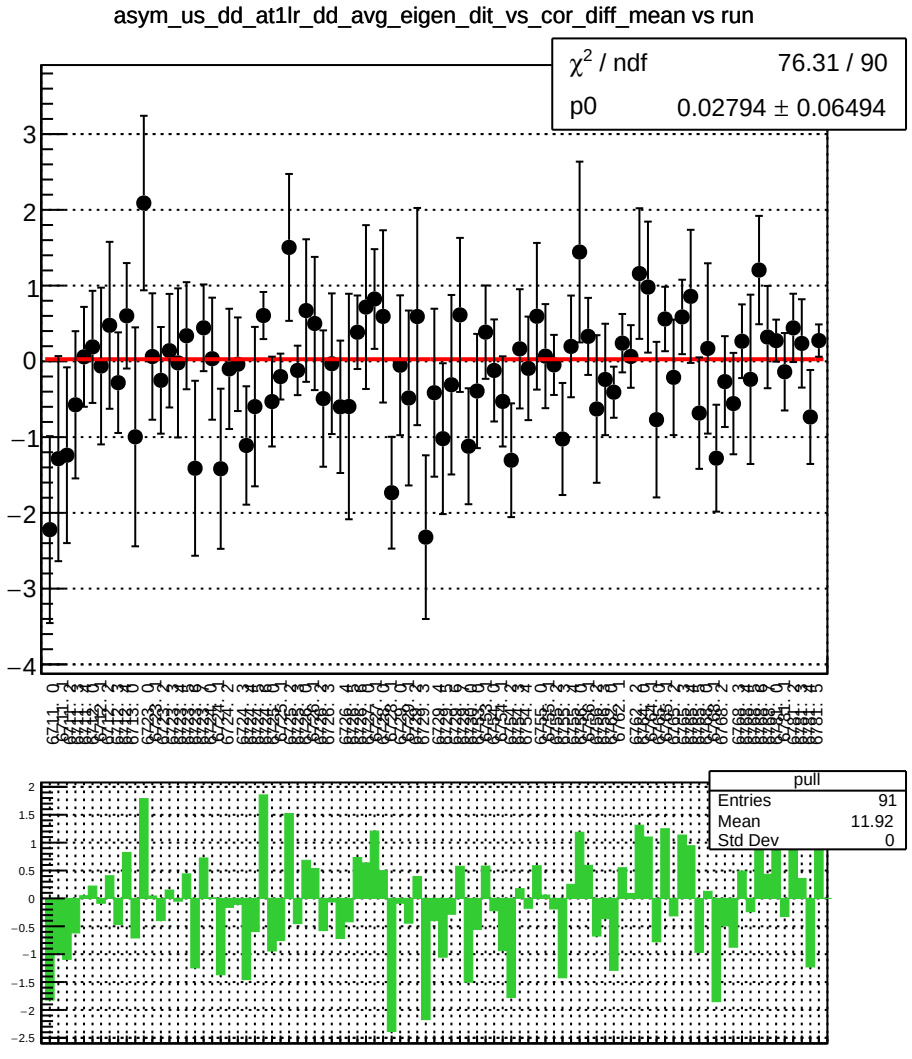

pull1D
Entries 91
Mean −0.09824
Std Dev 0.9104

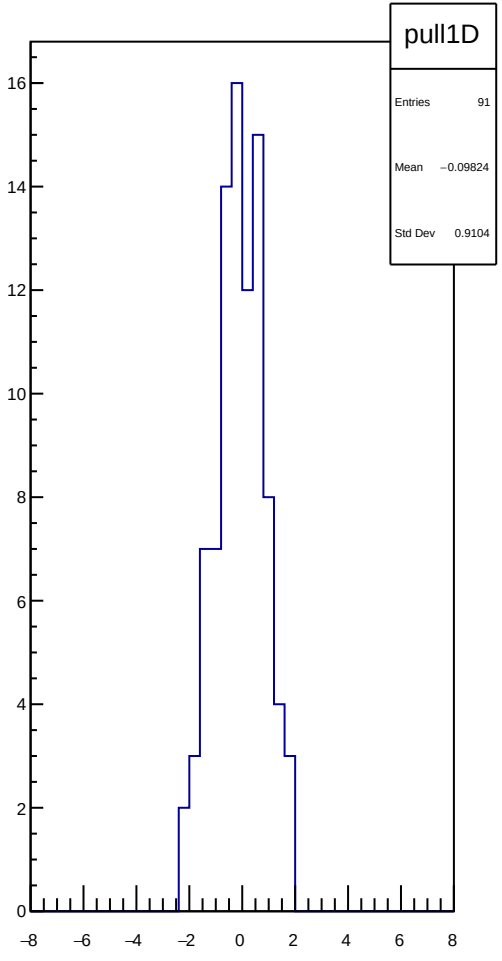

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.893e+05 / 90
p0 56.52 ± 0.04592
140
120
100
80
60
40
20

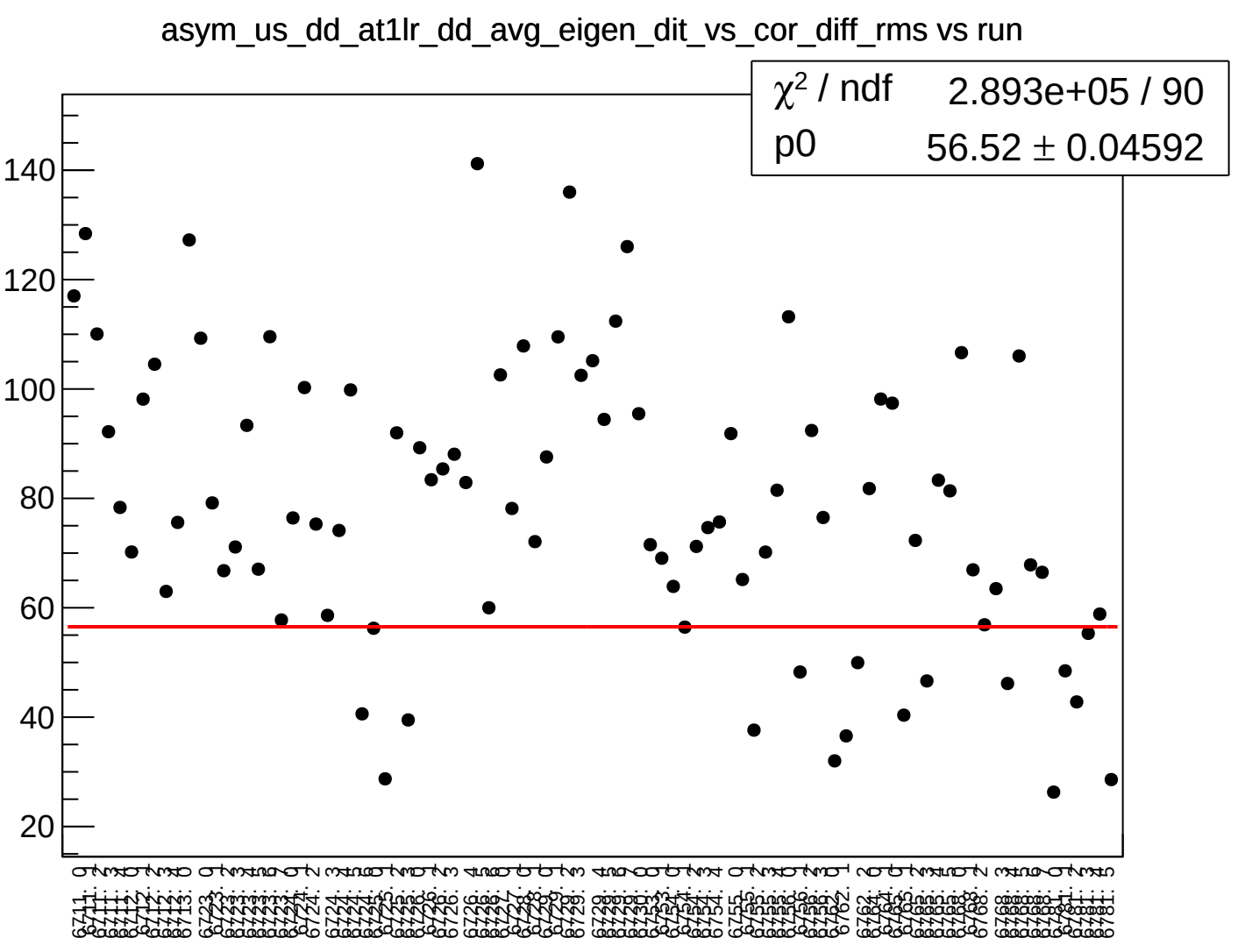

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.1 / 90
p0 4.43e−08 ± 1.591e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean −316.2
Std Dev 0
3
2
1
0
−1
−2

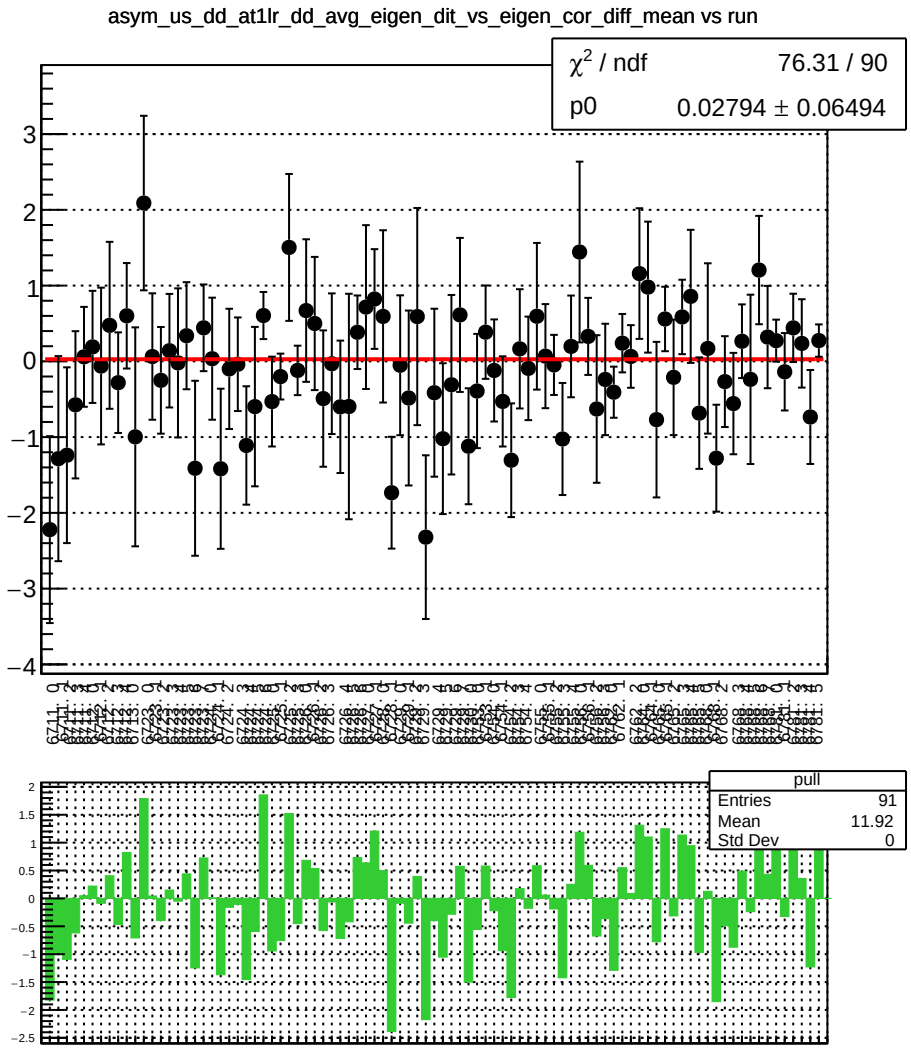

pull1D
Entries 91
Mean −0.008002
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

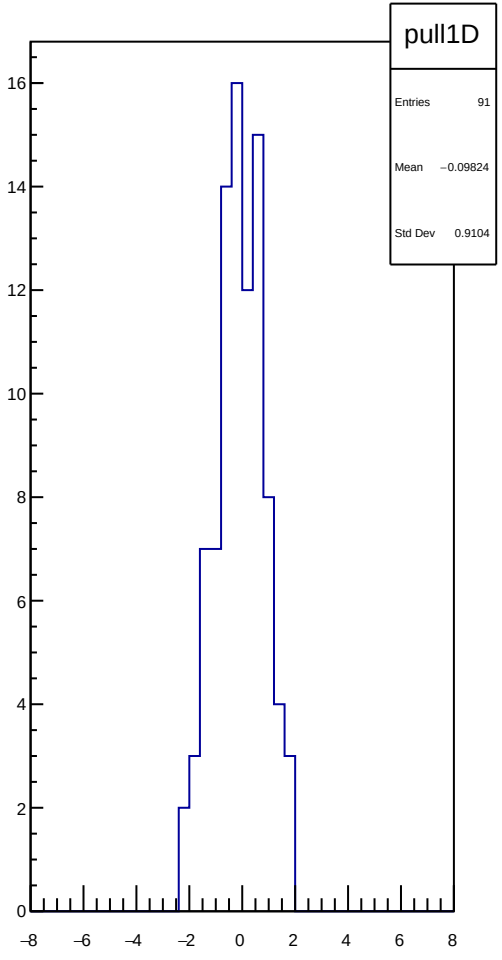

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.441e+04 / 90
p0 0.001505 ± 1.125e−06
0.0022
0.002
0.0018
0.0016
0.0014

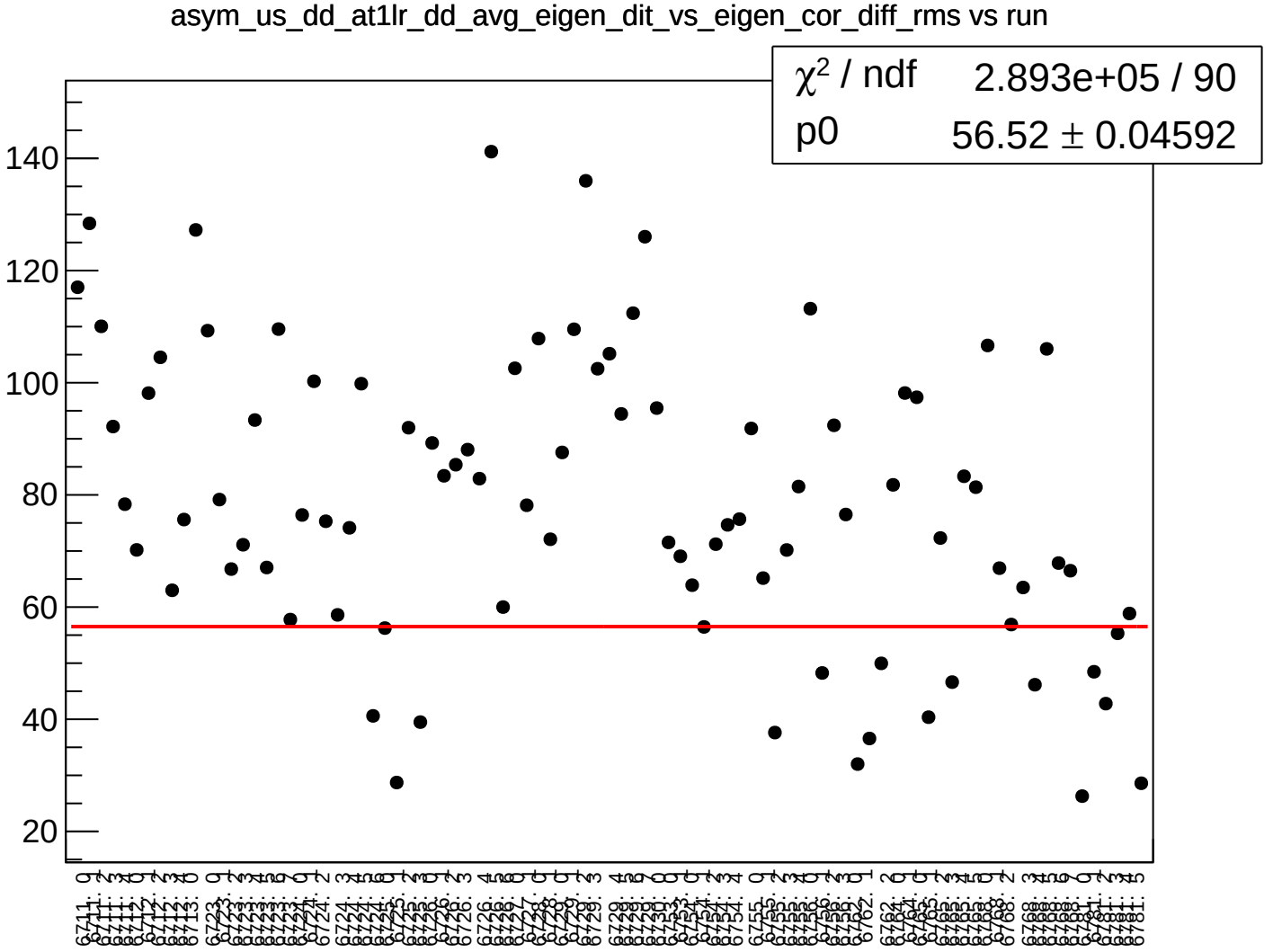

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.31 / 90
p0 0.02794 ± 0.06494
pull
Entries 91
Mean 11.92
Std Dev 0

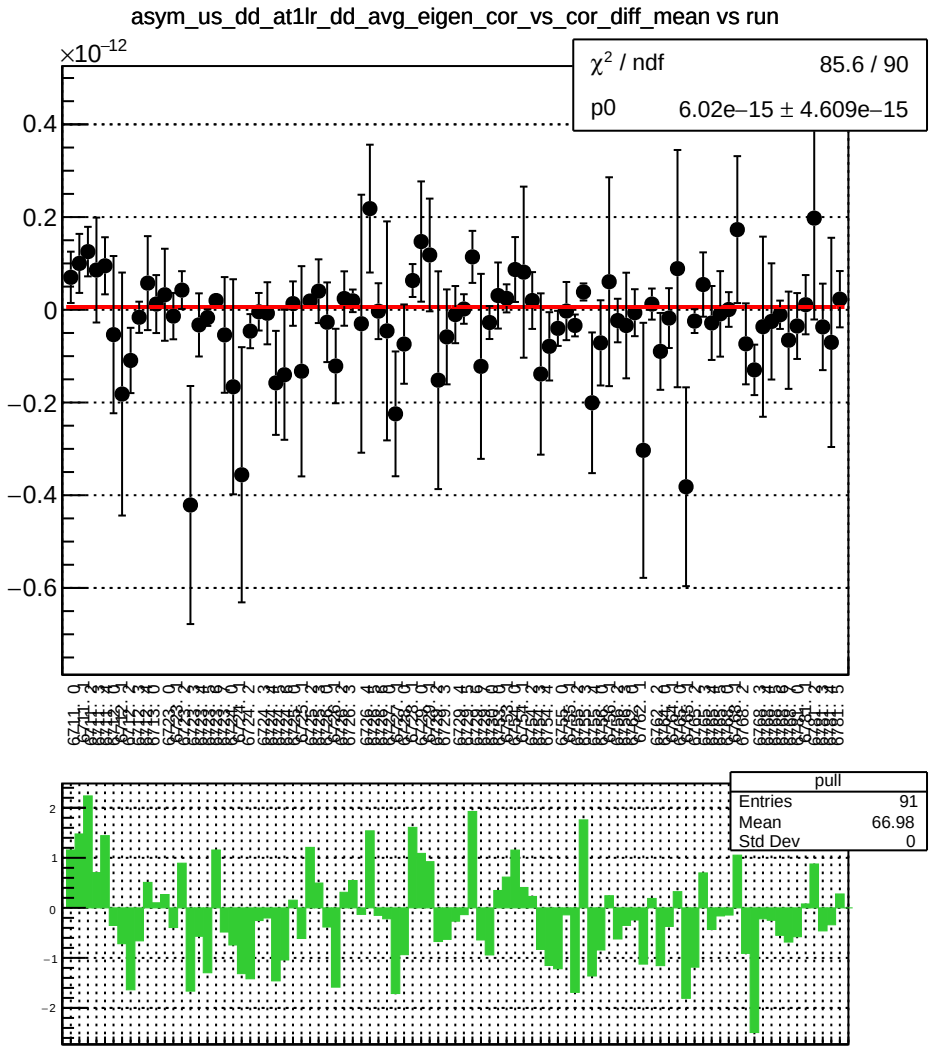

pull1D
Entries 91
Mean −0.09824
Std Dev 0.9104

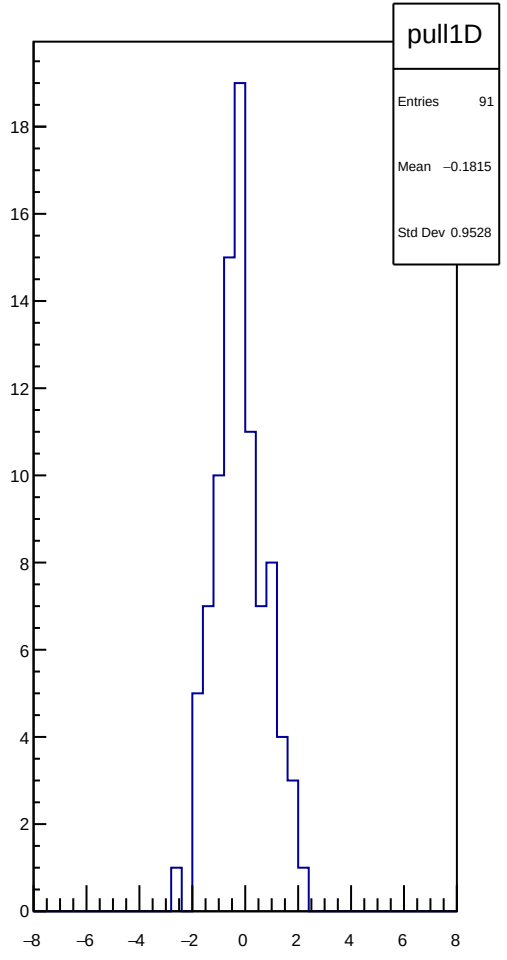

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.893e+05 / 90
p0 56.52 ± 0.04592
140
120
100
80
60
40
20

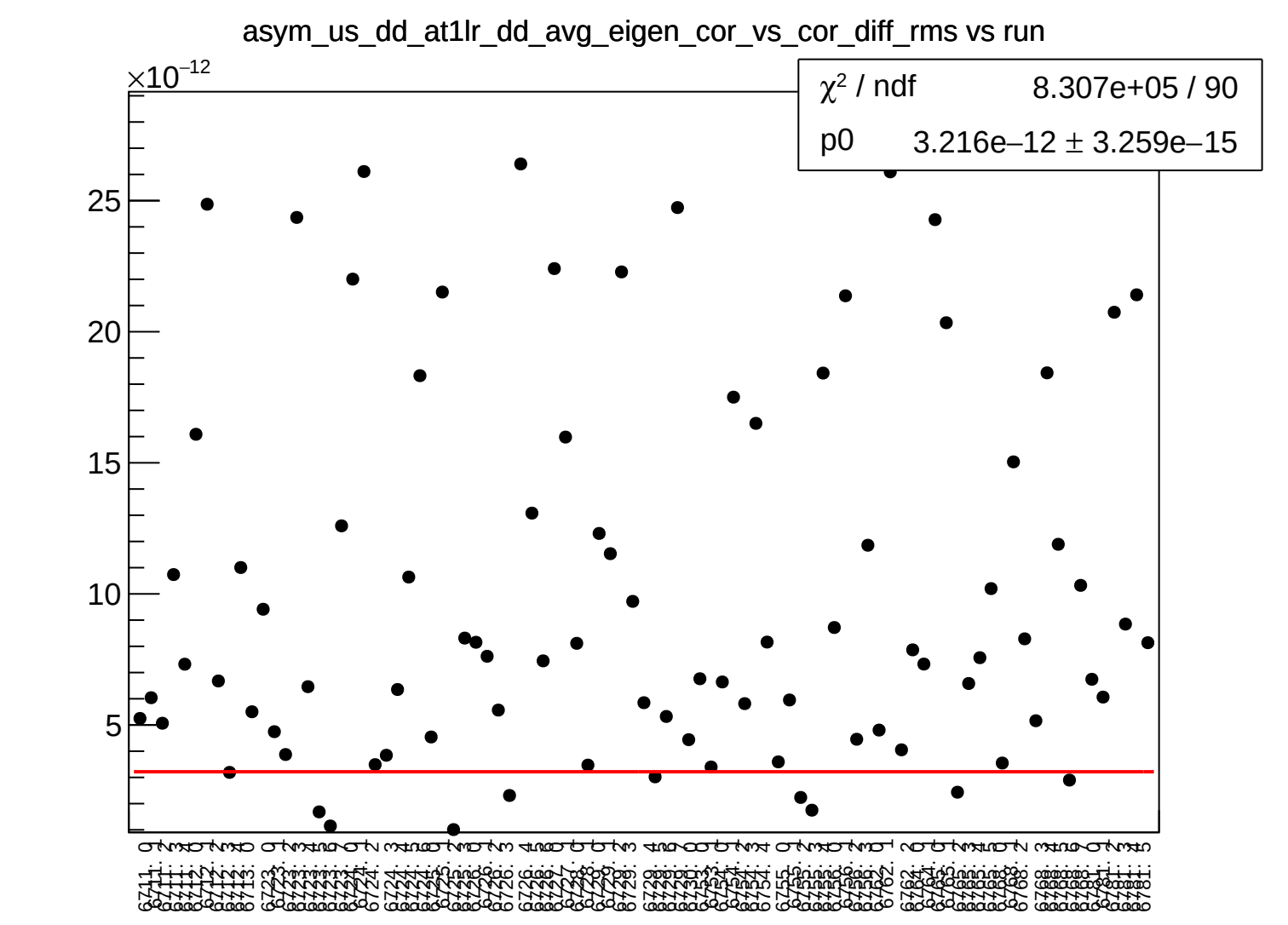

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.31 / 90
p0 0.02794 ± 0.06494
pull
Entries 91
Mean 11.92
Std Dev 0

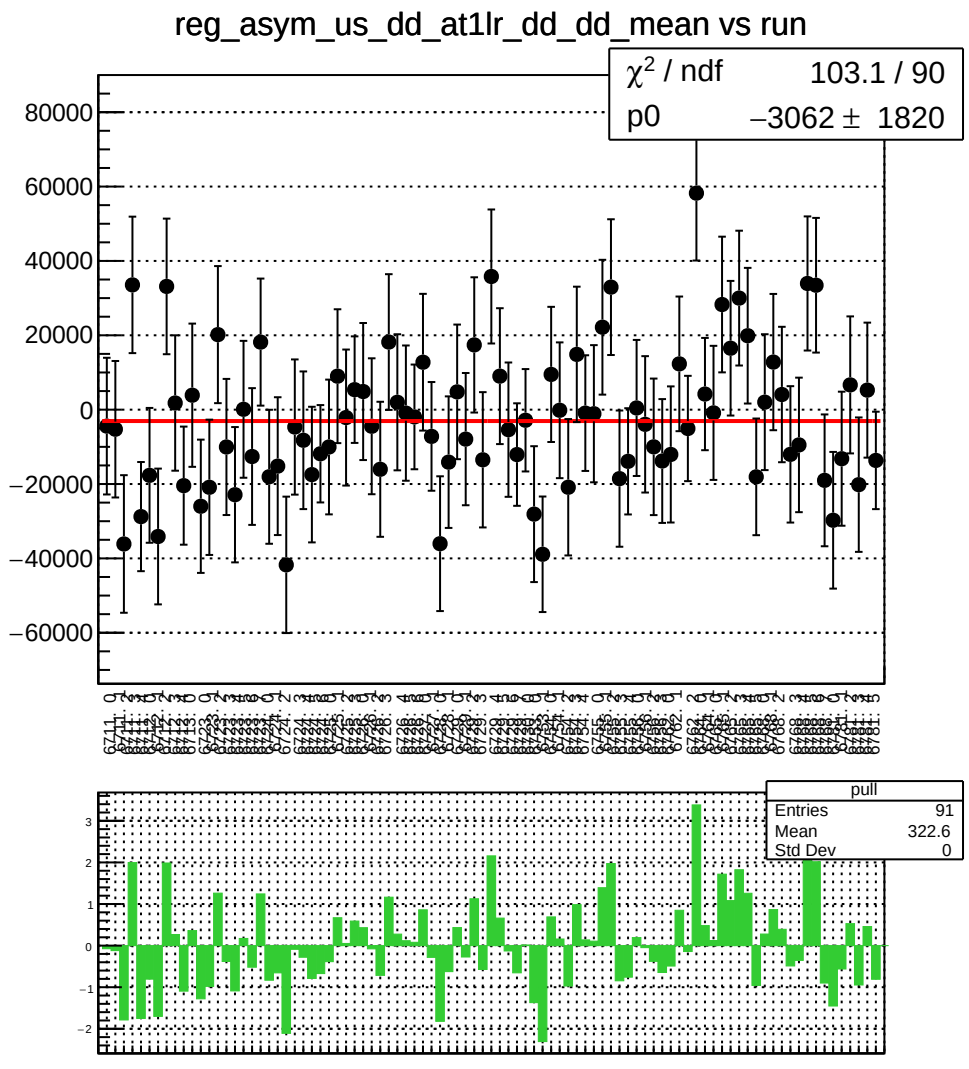

pull1D
Entries 91
Mean −0.09824
Std Dev 0.9104

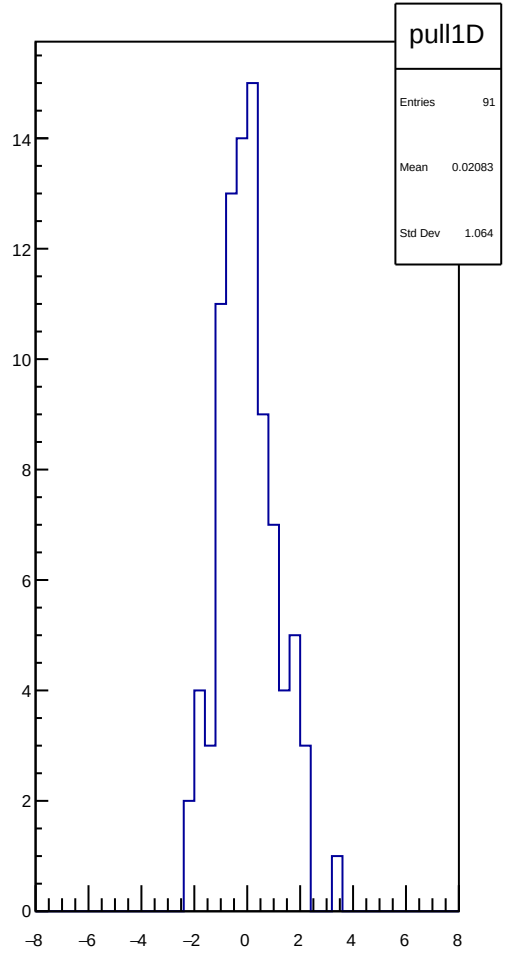

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.893e+05 / 90
p0 56.52 ± 0.04592
140
120
100
80
60
40
20

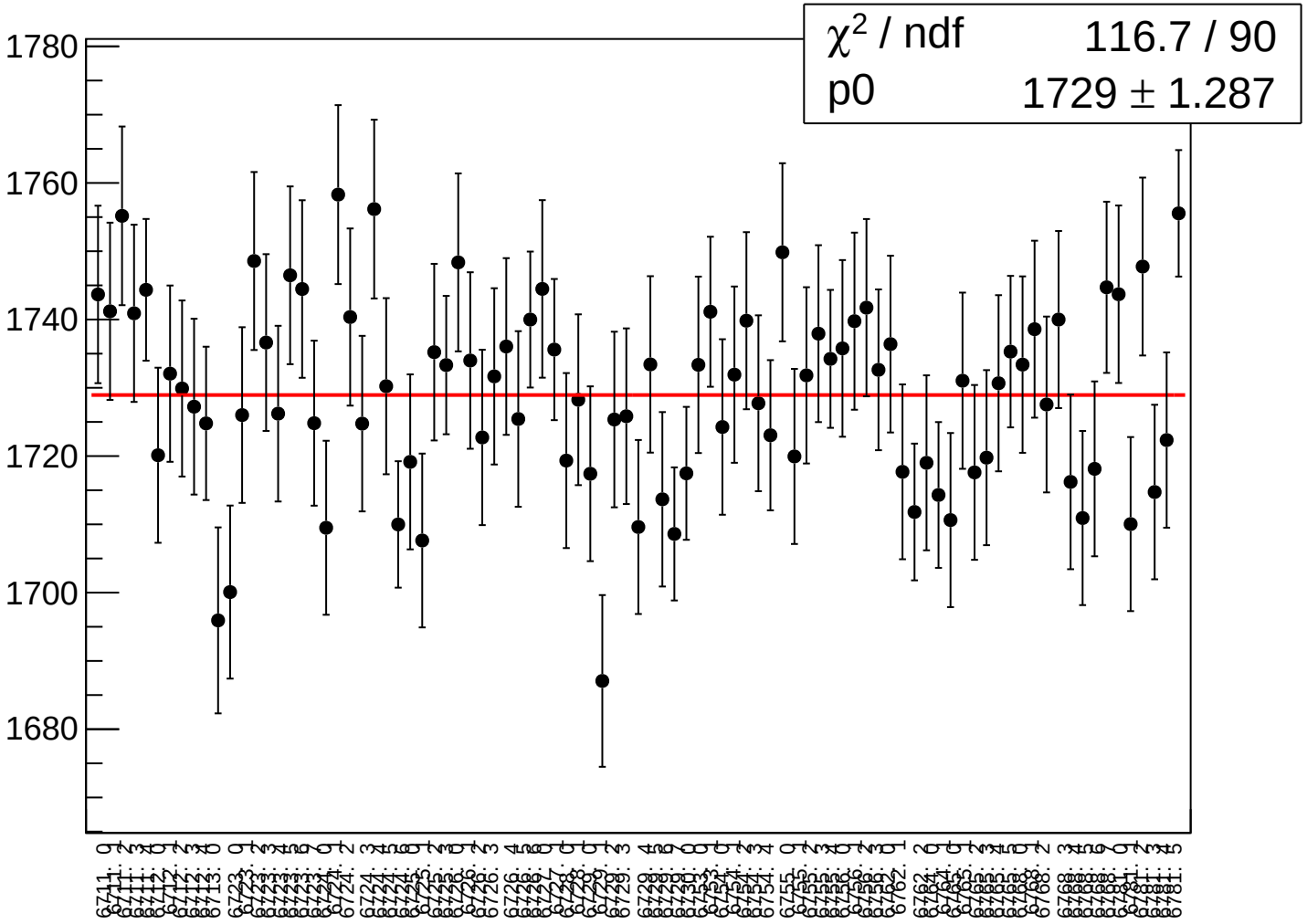

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.6 / 90
p0 6.02e−15 ± 4.609e−15
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 91
Mean 66.98
Std Dev 0
2
1
0
−1
−2

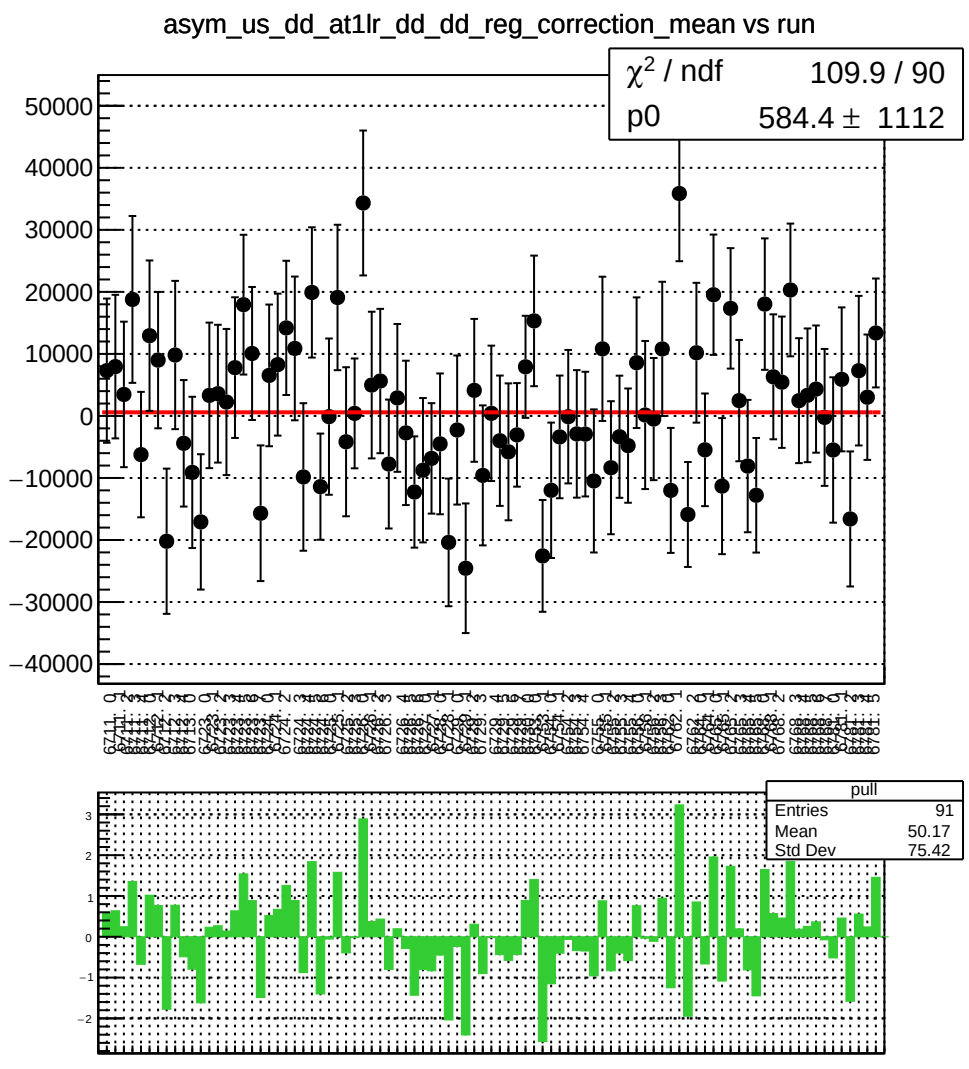

pull1D
Entries 91
Mean −0.1815
Std Dev 0.9528
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

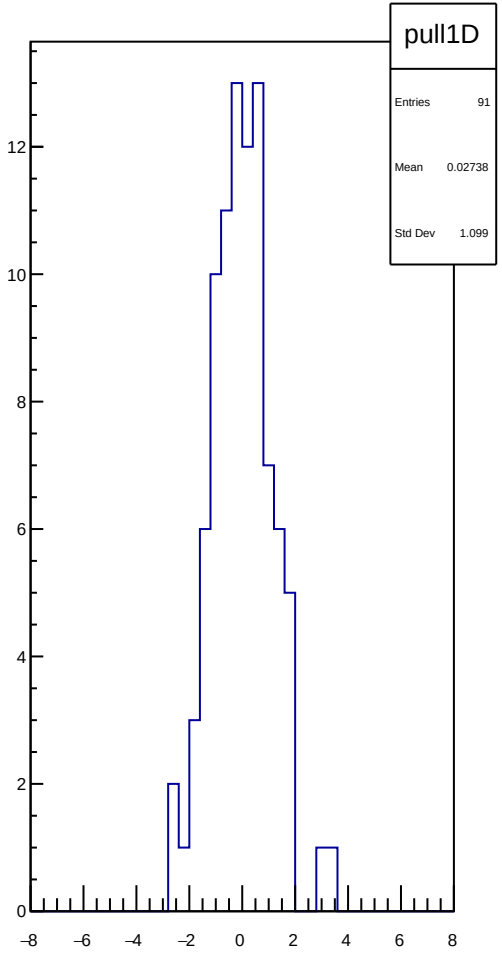

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.307e+05 / 90
p0 3.216e−12 ± 3.259e−15
25
20
15
10
5

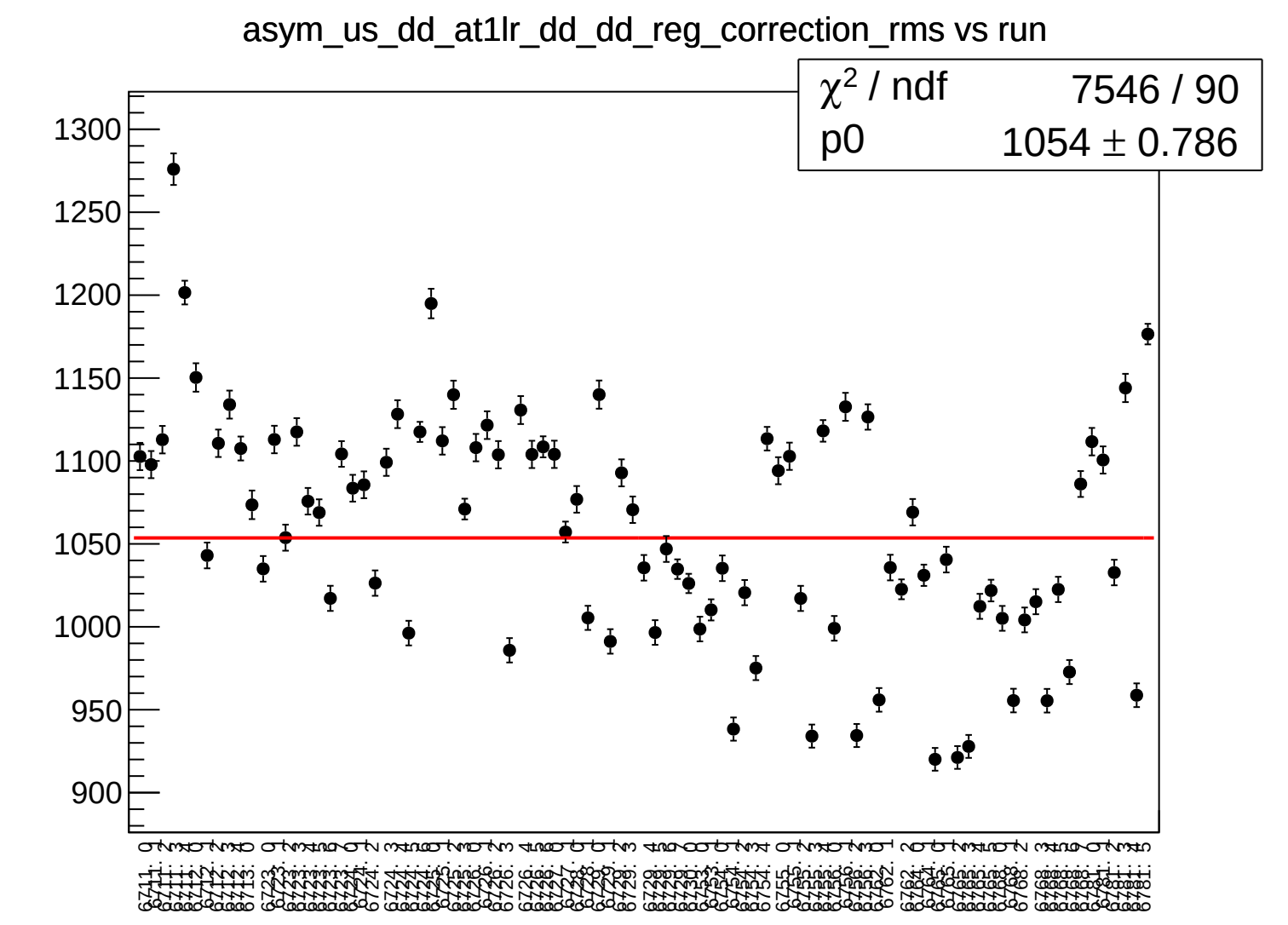

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 103.1 / 90
p0 −3062 ± 1820
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 322.6
Std Dev 0
3
2
1
0
−1
−2

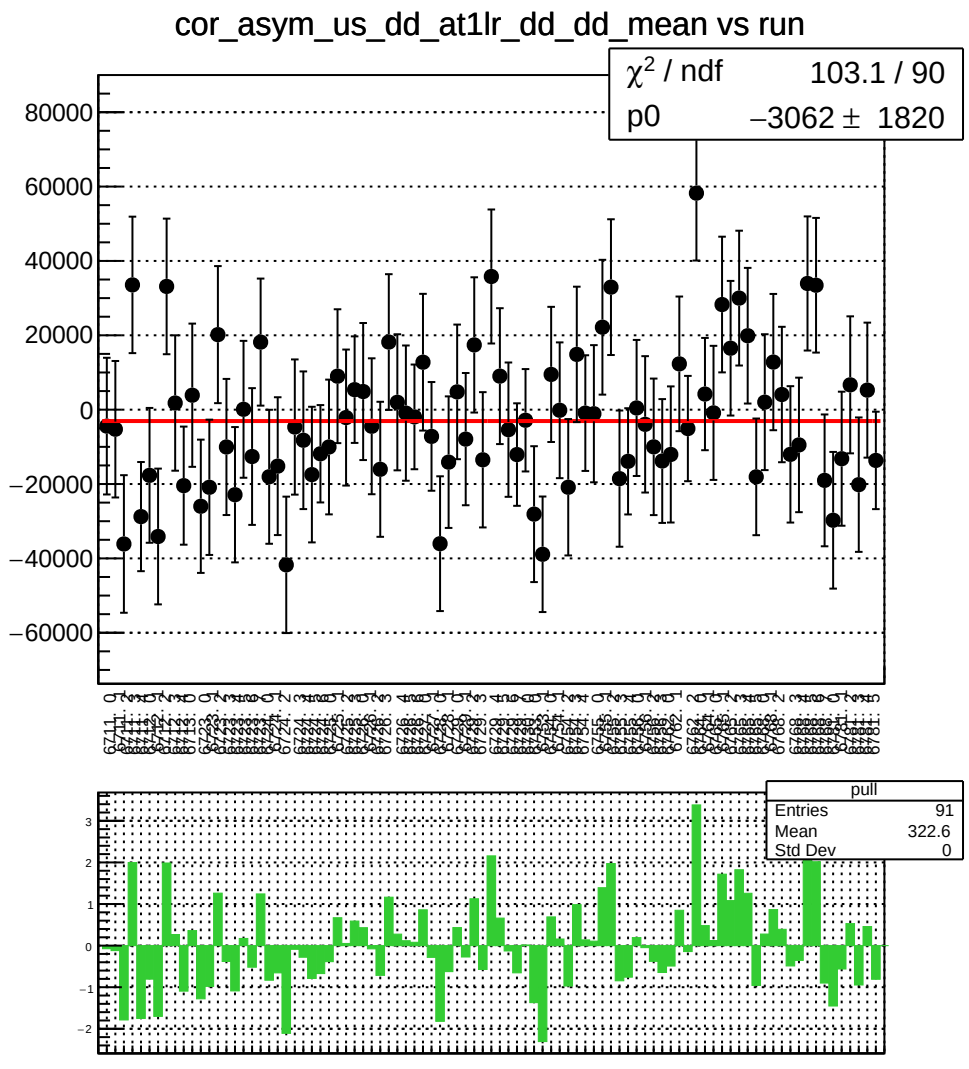

pull1D
Entries 91
Mean 0.02083
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

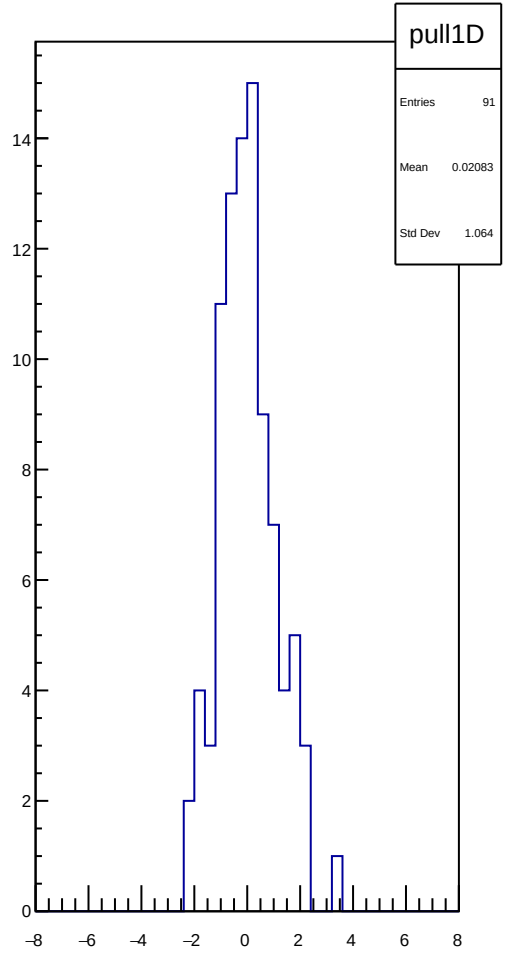

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 116.7 / 90
p0 1729 ± 1.287
1780
1760
1740
1720
1700
1680

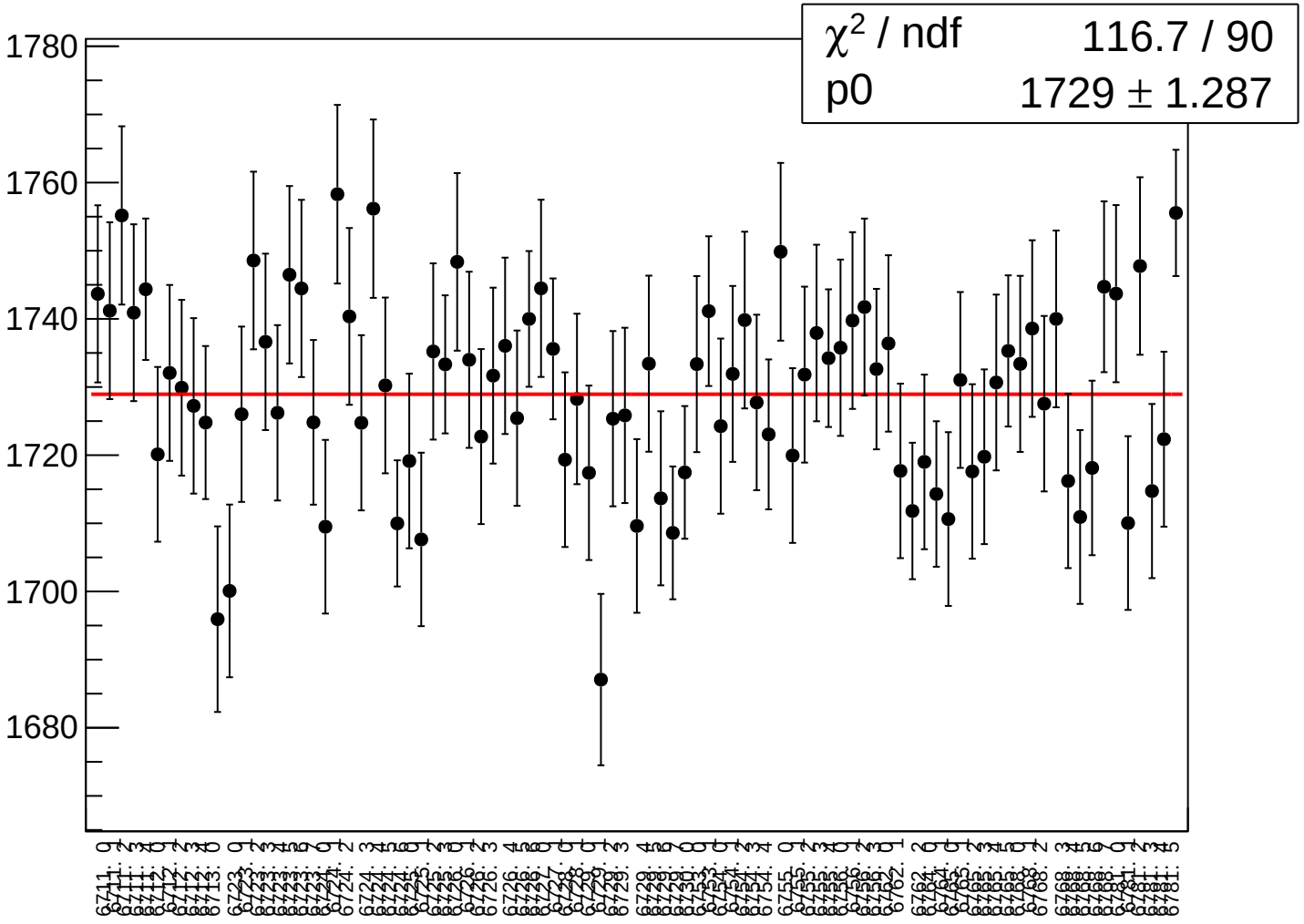

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 109.9 / 90
p0 584.4 ± 1112
pull
Entries 91
Mean 50.17
Std Dev 75.42

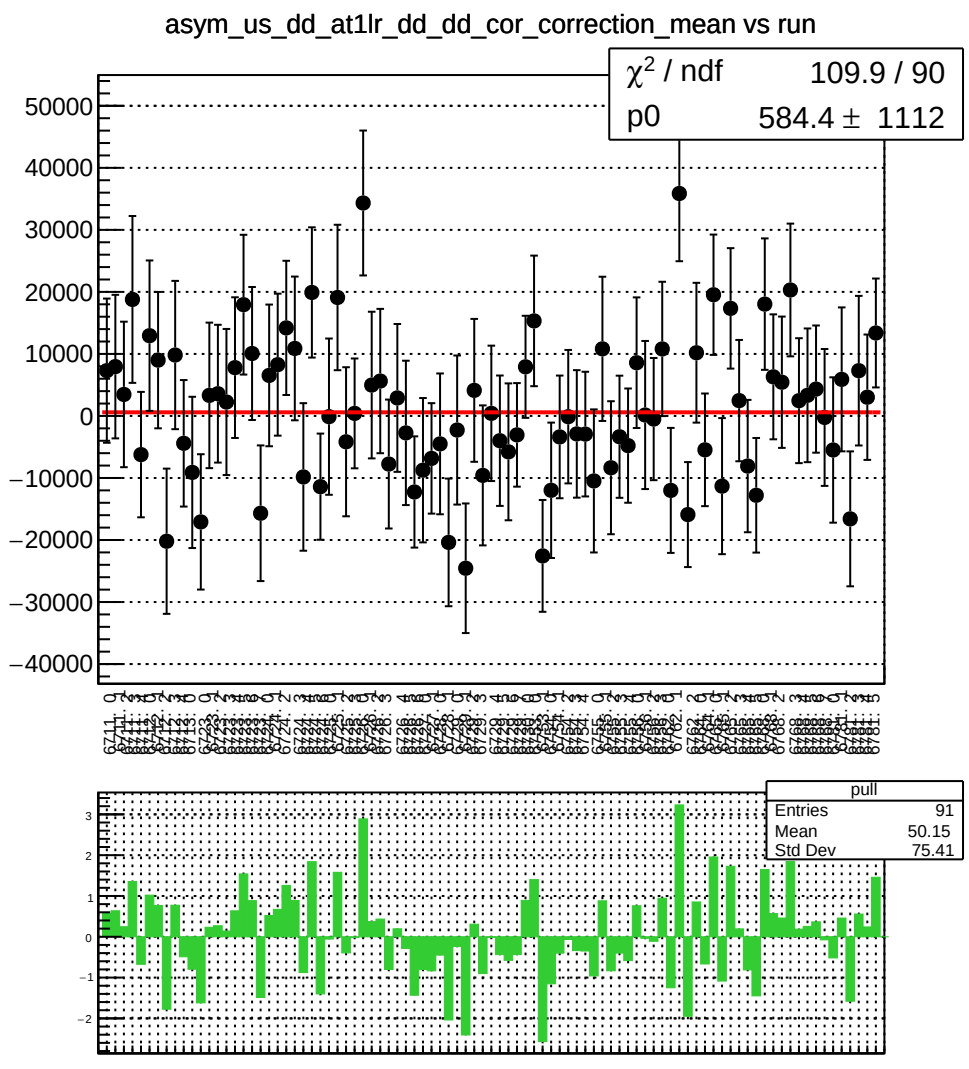

pull1D
Entries 91
Mean 0.02738
Std Dev 1.099

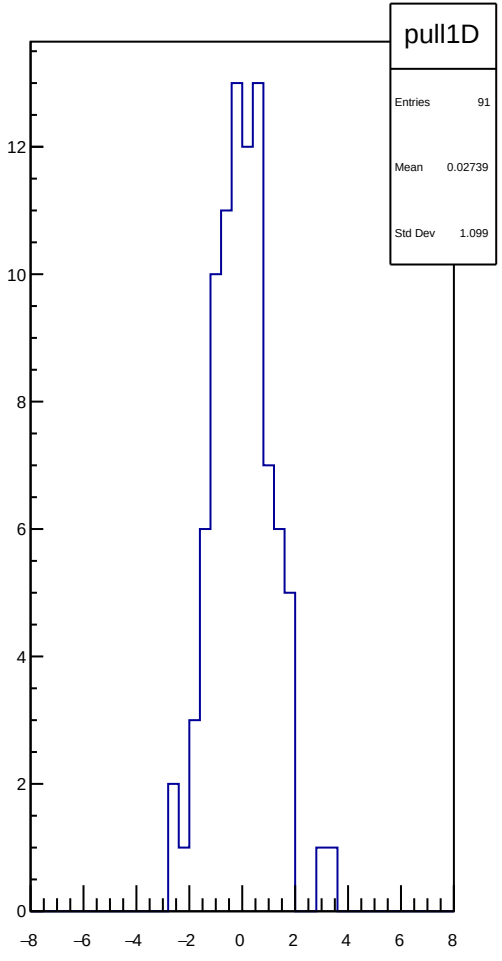

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 7546 / 90
p0 1054 ± 0.786
1300
1250
1200
1150
1100
1050
1000
950
900

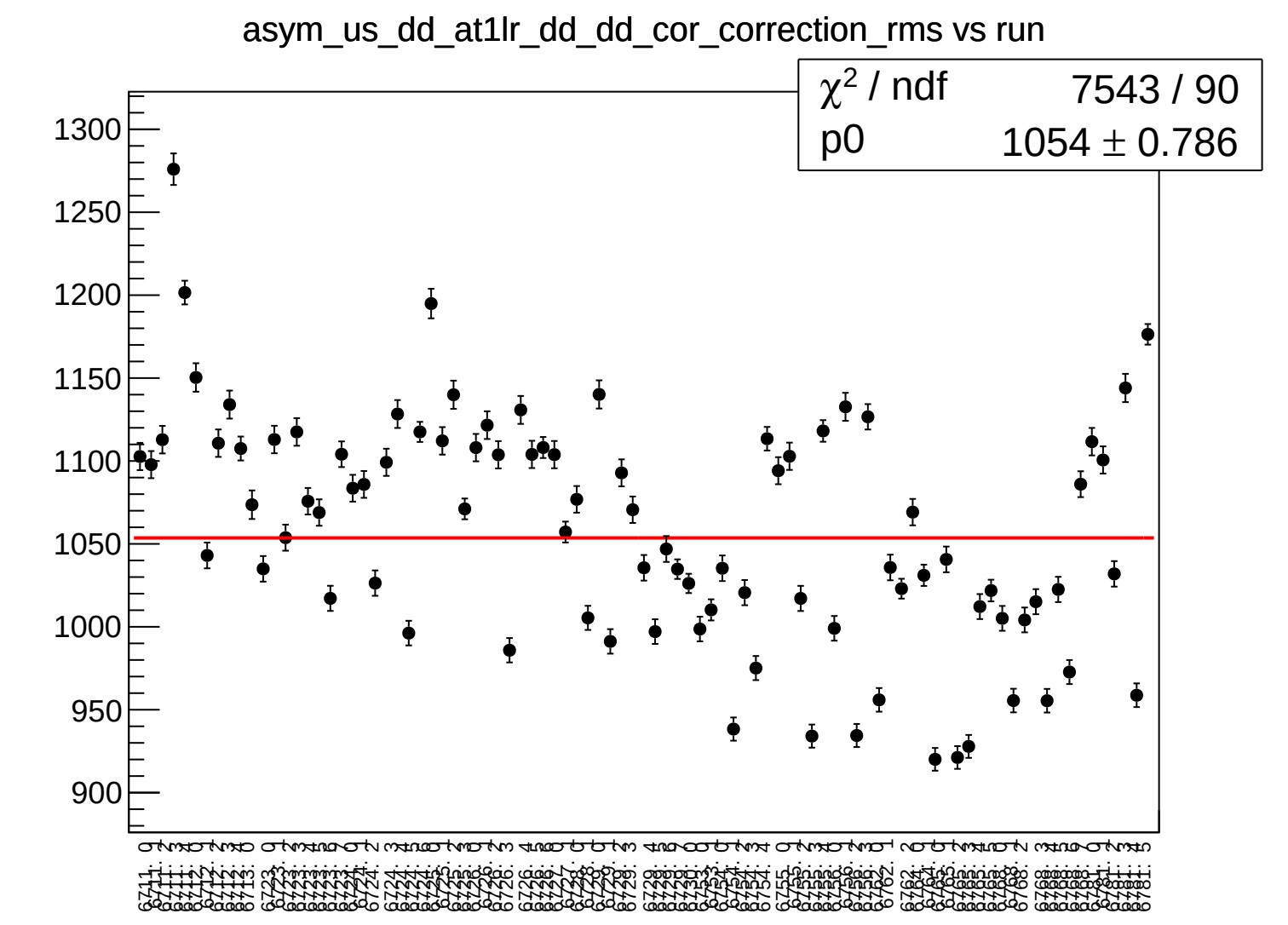

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 103.1 / 90
p0 −3062 ± 1820
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 322.6
Std Dev 0
3
2
1
0
−1
−2

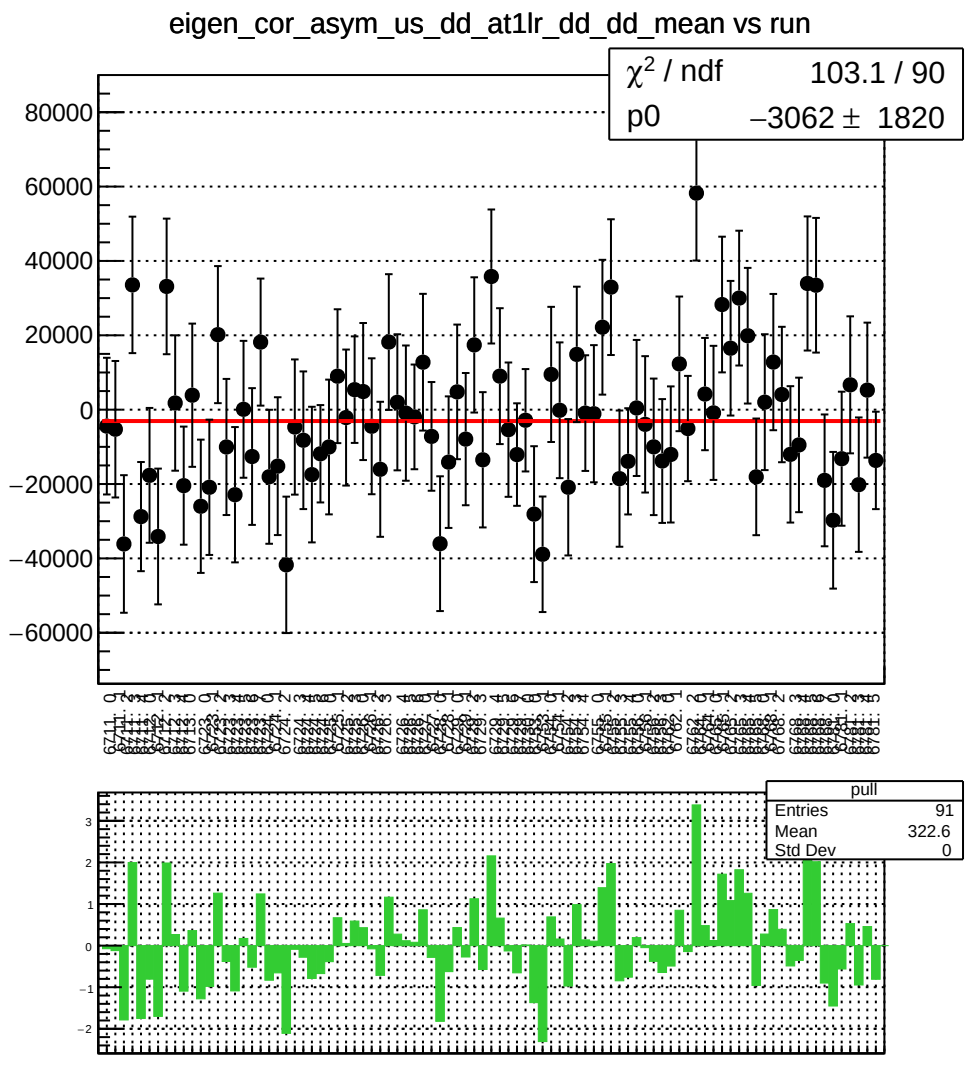

pull1D
Entries 91
Mean 0.02083
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

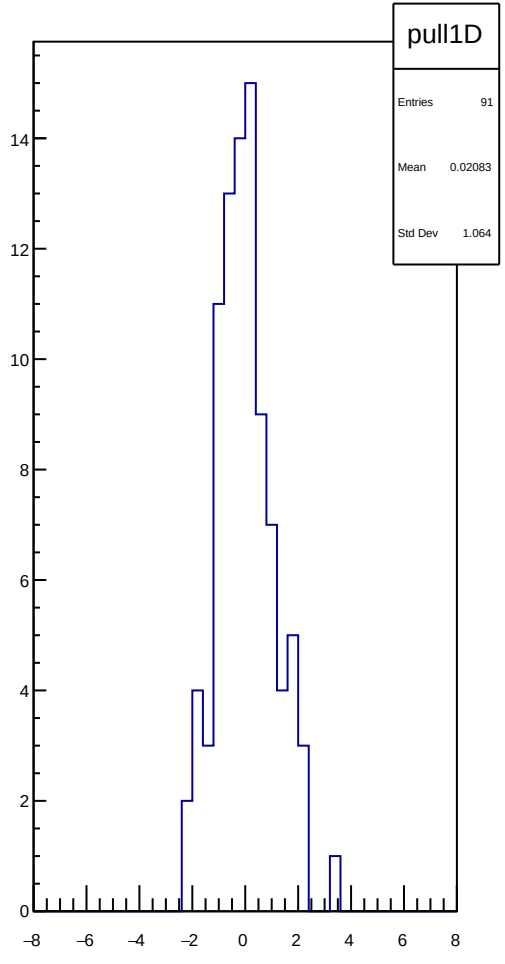

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 116.7 / 90
p0 1729 ± 1.287
1780
1760
1740
1720
1700
1680

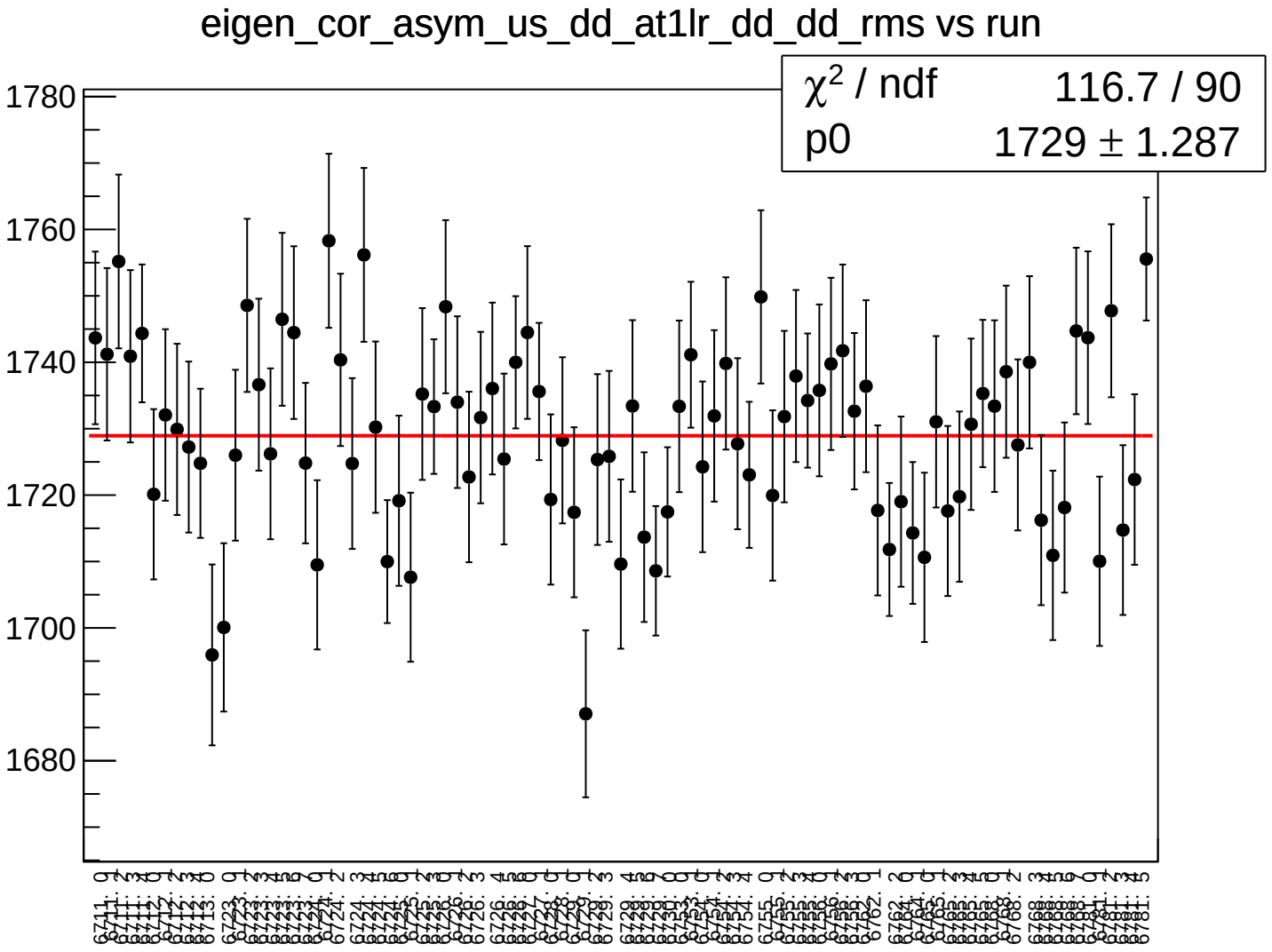

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 109.9 / 90
p0 584.4 ± 1112
pull
Entries 91
Mean 50.15
Std Dev 75.41

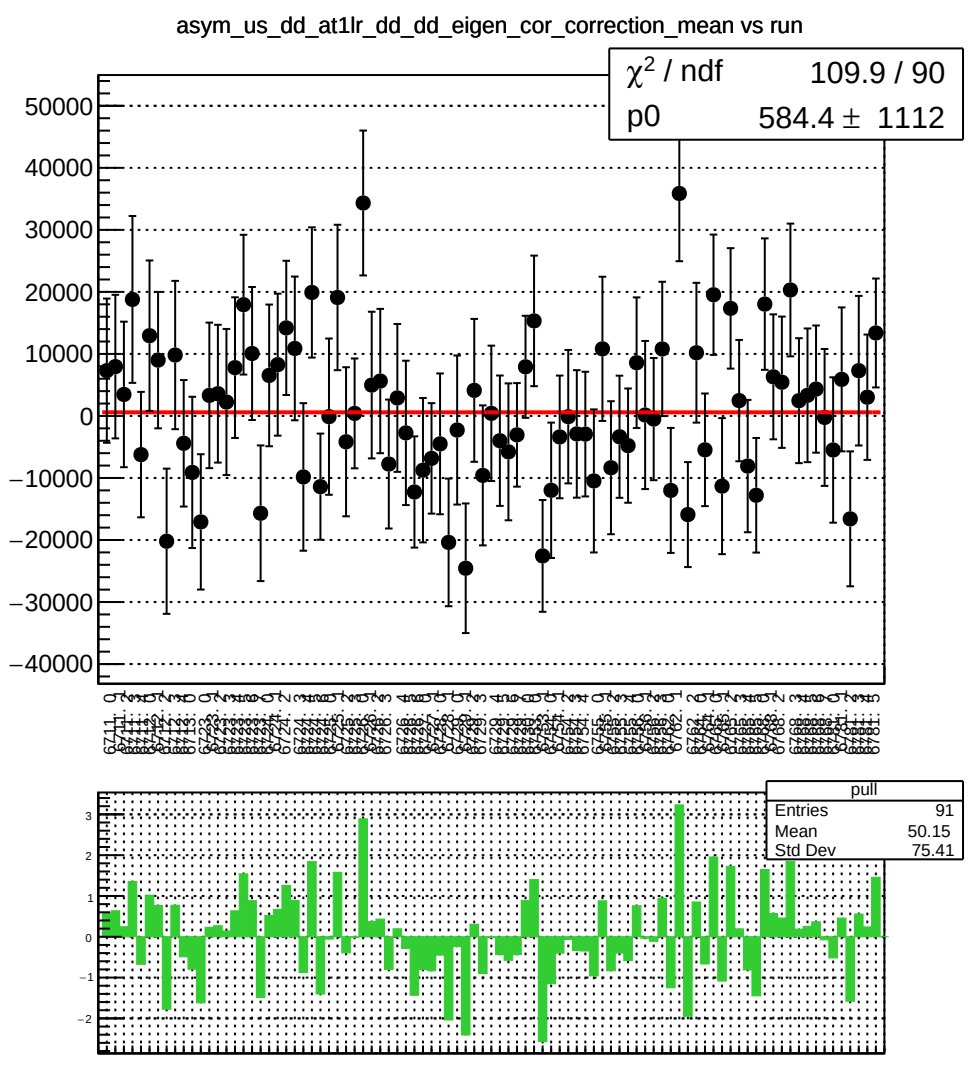

pull1D
Entries 91
Mean 0.02739
Std Dev 1.099

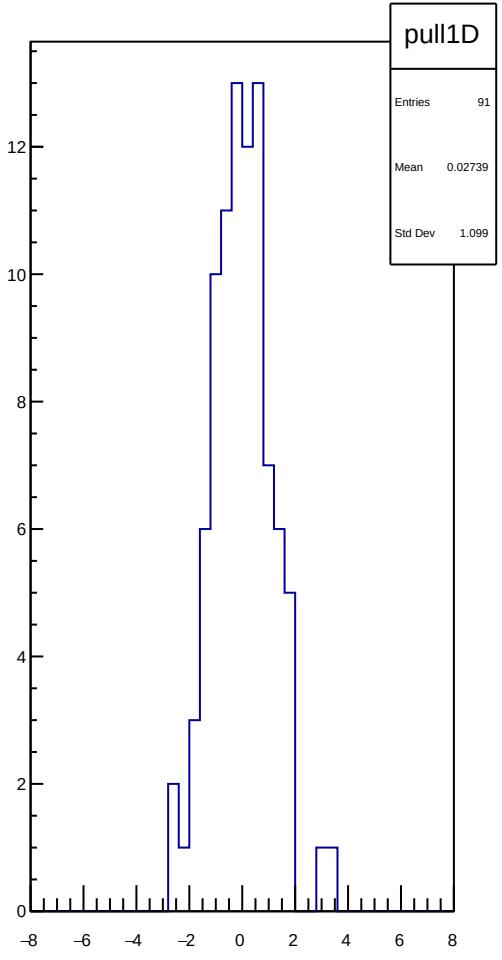

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 7543 / 90
p0 1054 ± 0.786
1300
1250
1200
1150
1100
1050
1000
950
900

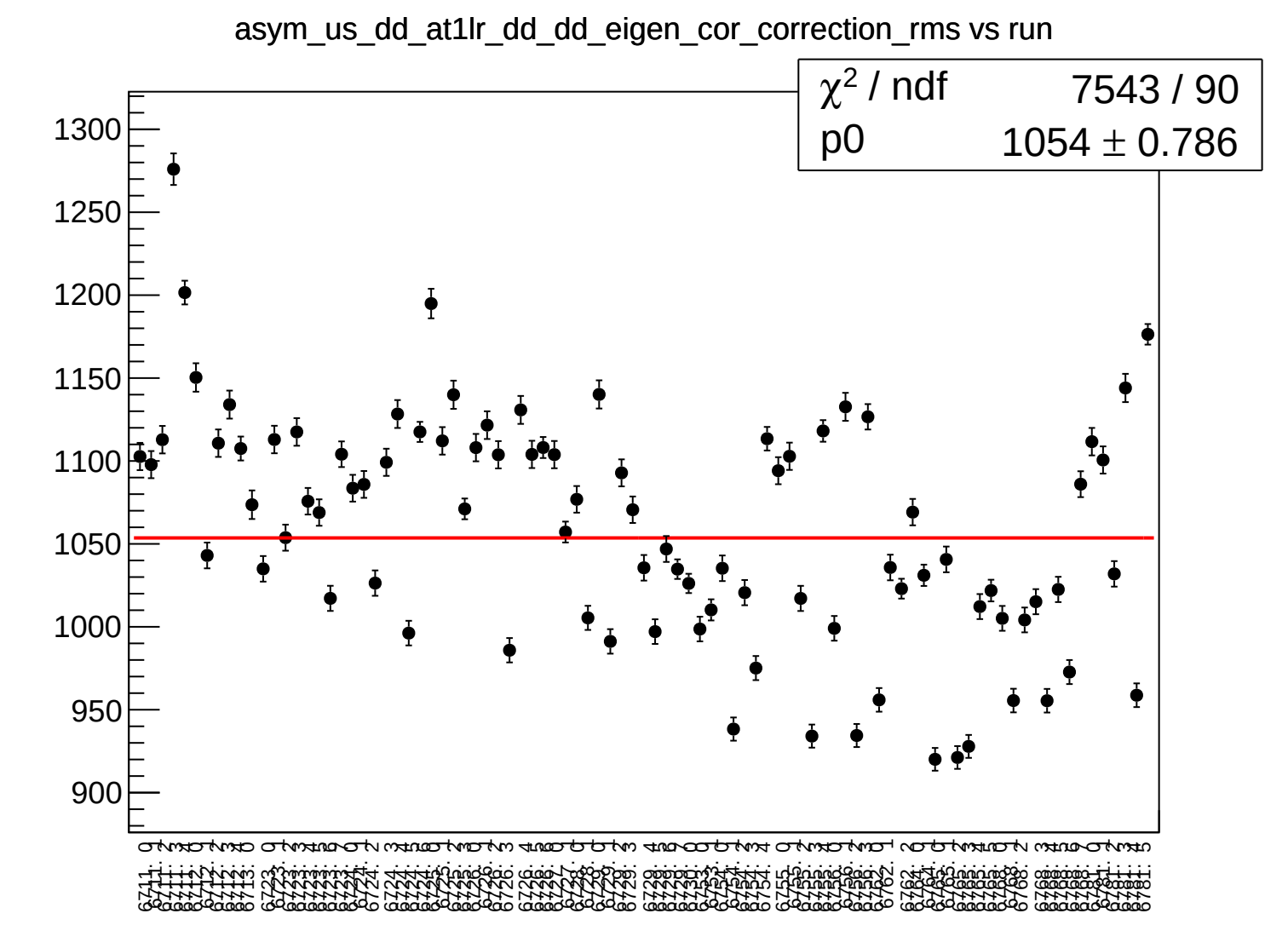

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 103.1 / 90
p0 −3062 ± 1820
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 322.6
Std Dev 0
3
2
1
0
−1
−2

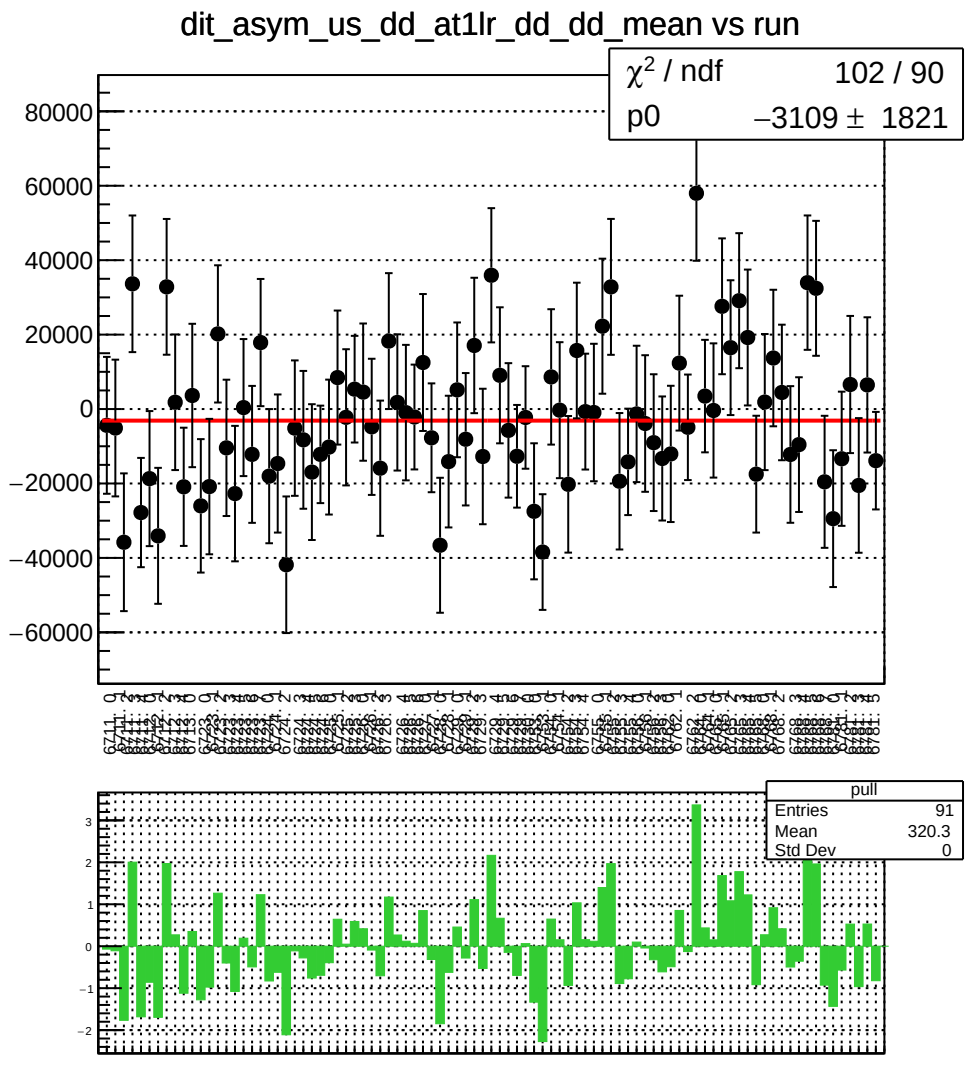

pull1D
Entries 91
Mean 0.02083
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

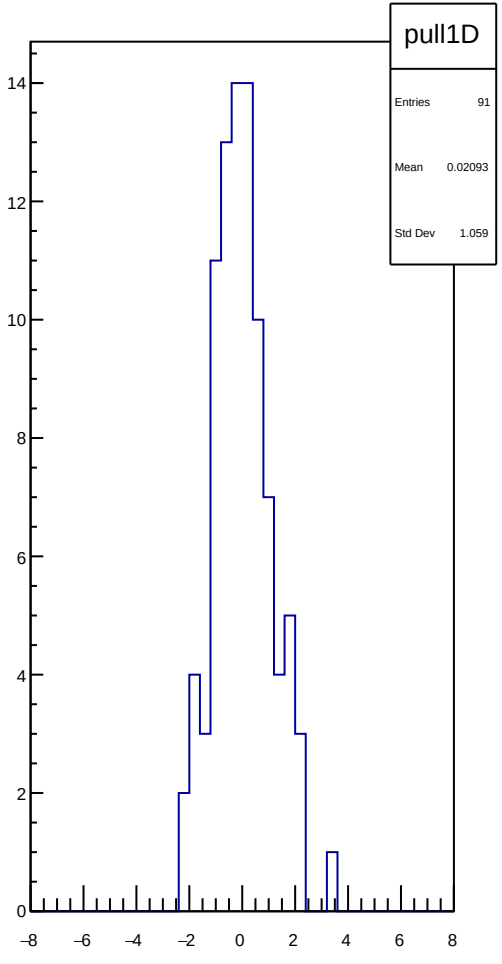

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 116.7 / 90
p0 1729 ± 1.287
1780
1760
1740
1720
1700
1680

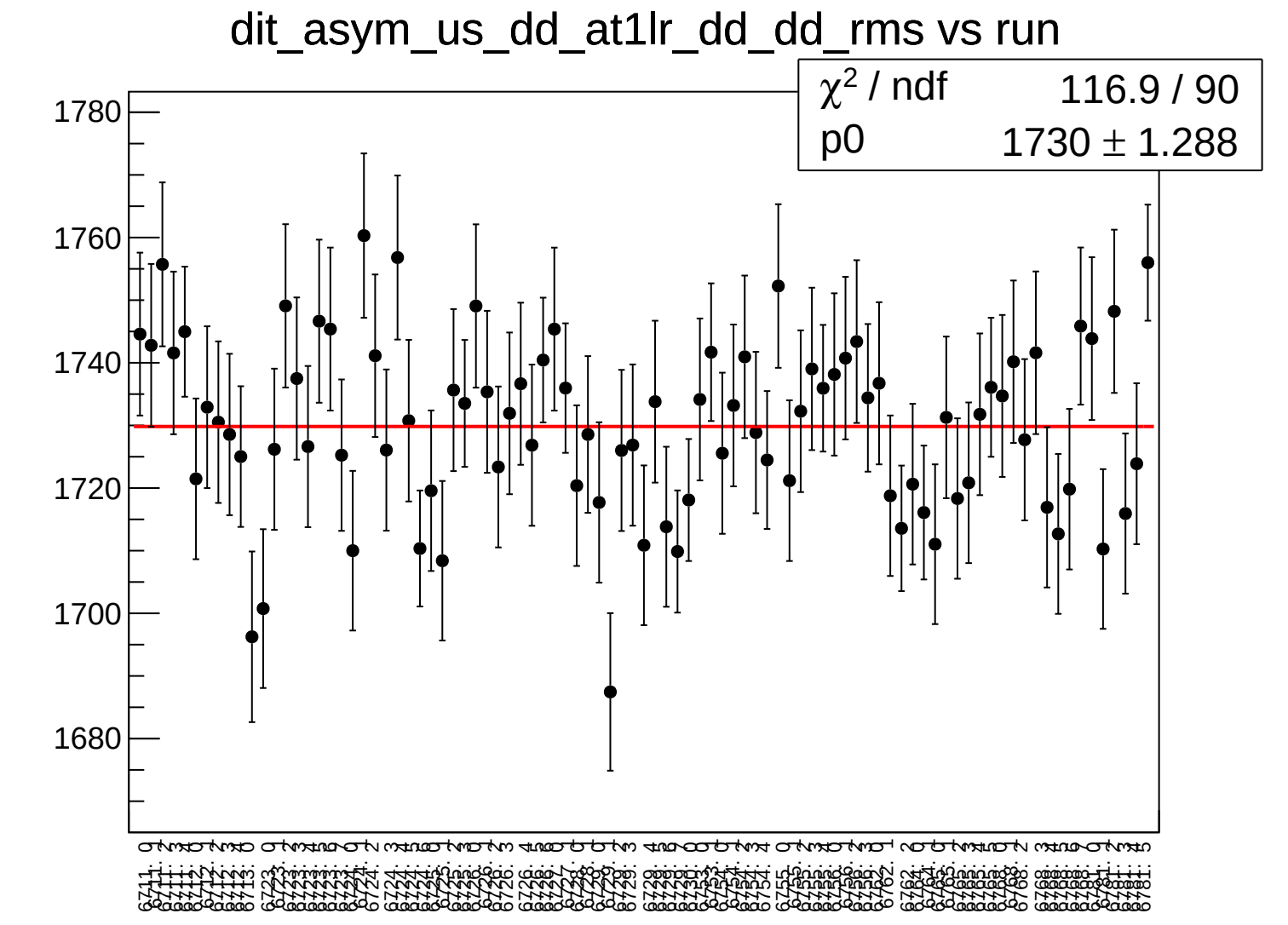

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 109.9 / 90
p0 584.4 ± 1112
pull
Entries 91
Mean 50.15
Std Dev 75.41

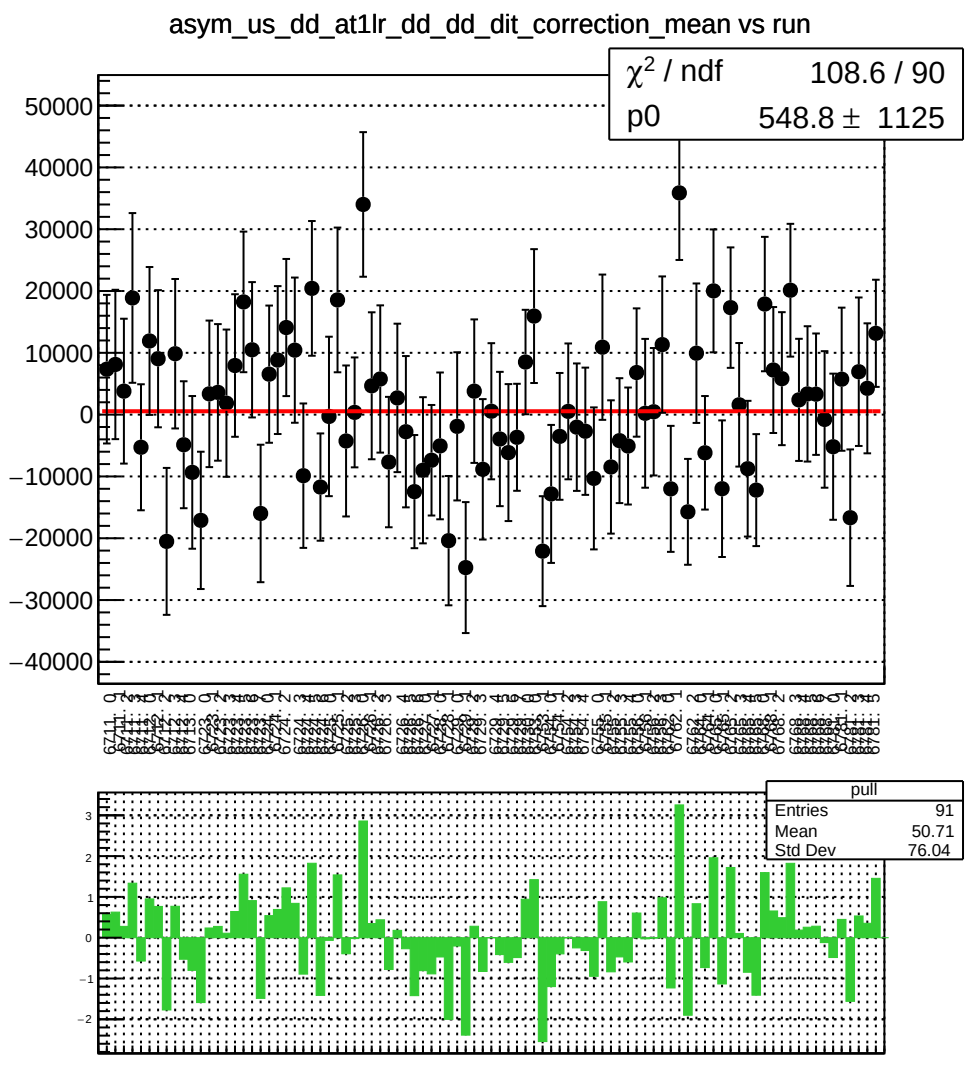

pull1D
Entries 91
Mean 0.02739
Std Dev 1.099

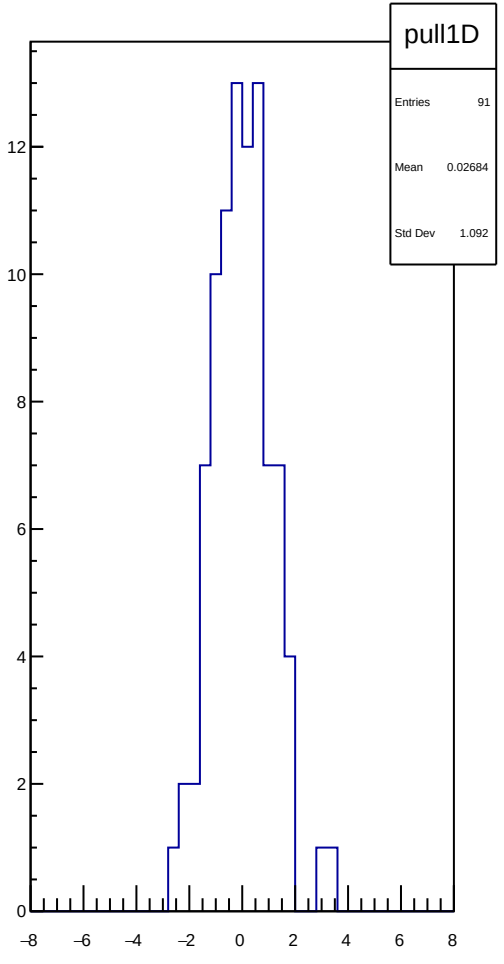

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 7543 / 90
p0 1054 ± 0.786
1300
1250
1200
1150
1100
1050
1000
950
900

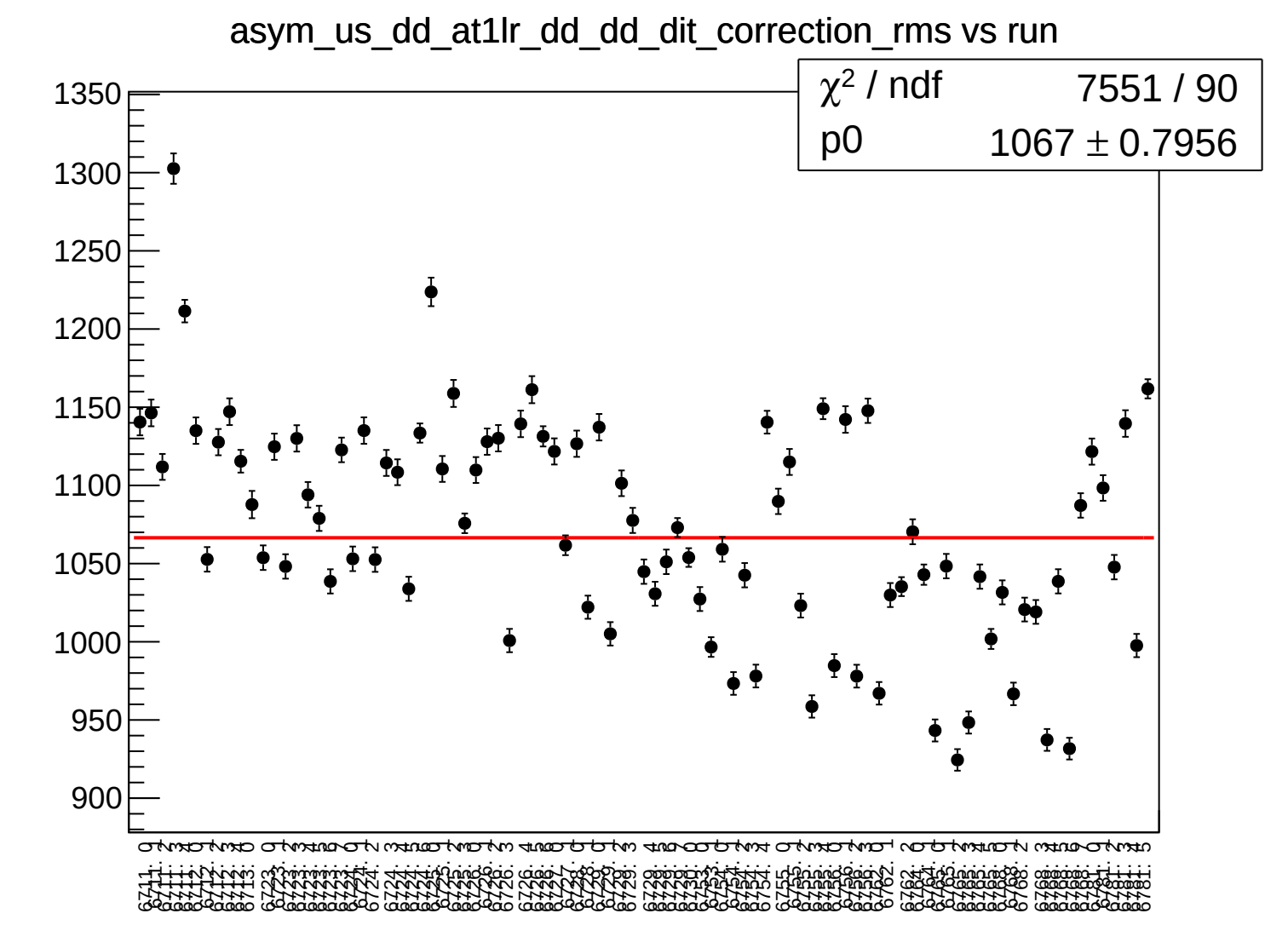

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 102 / 90
p0 −3109 ± 1821
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 320.3
Std Dev 0
3
2
1
0
−1
−2

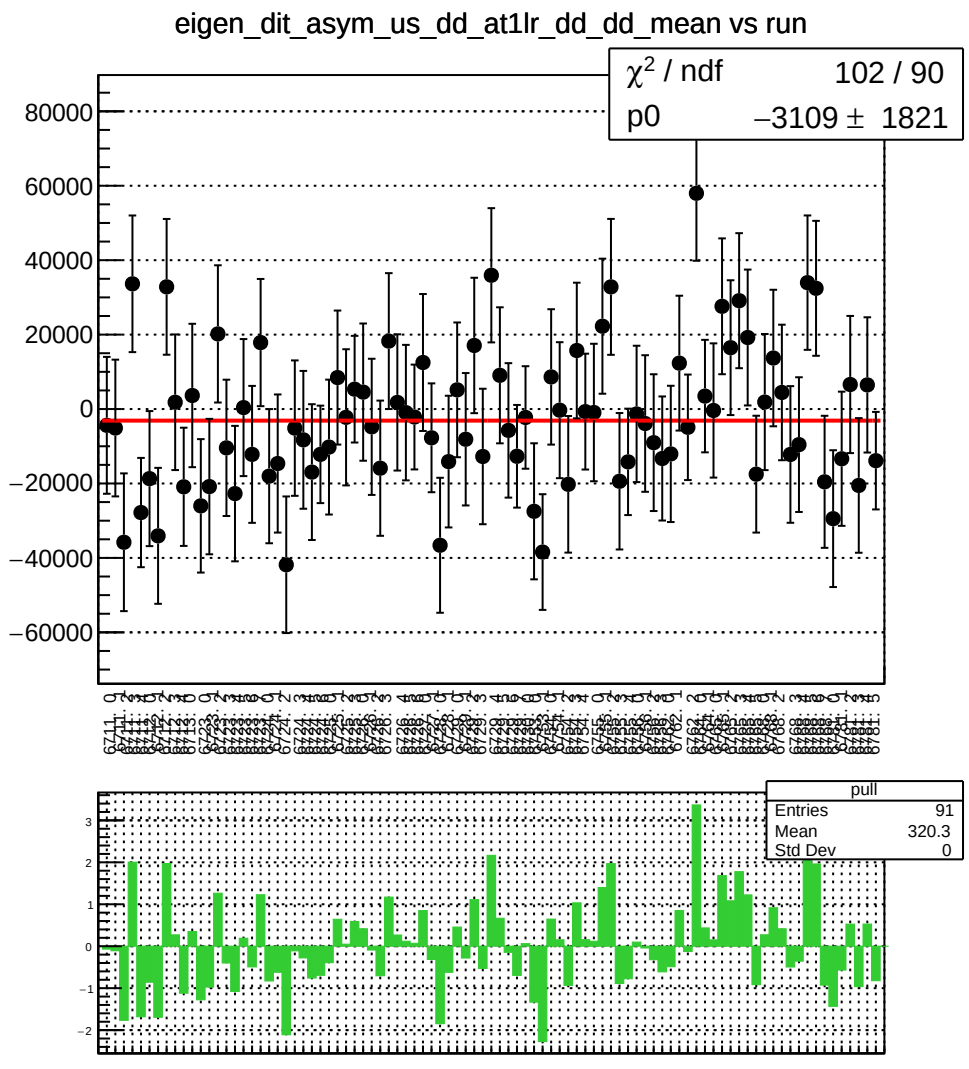

pull1D
Entries 91
Mean 0.02093
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

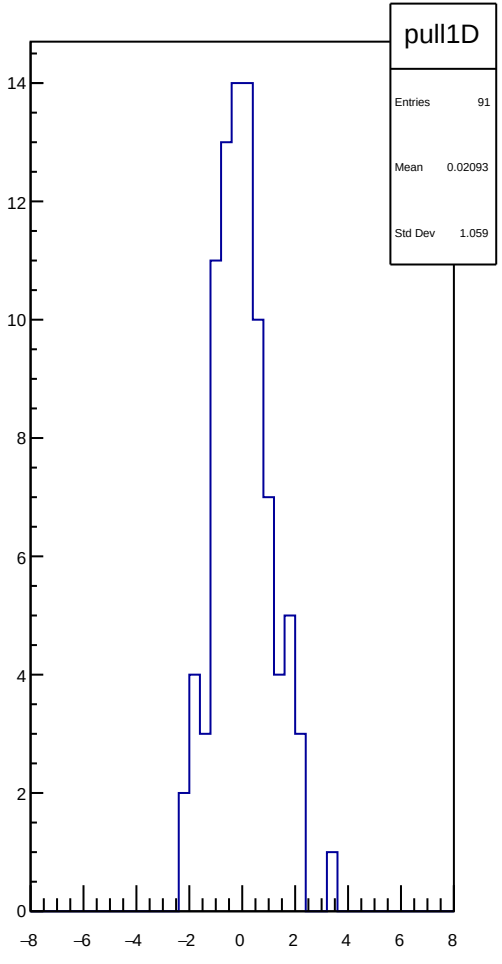

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 116.9 / 90
p0 1730 ± 1.288
1780
1760
1740
1720
1700
1680

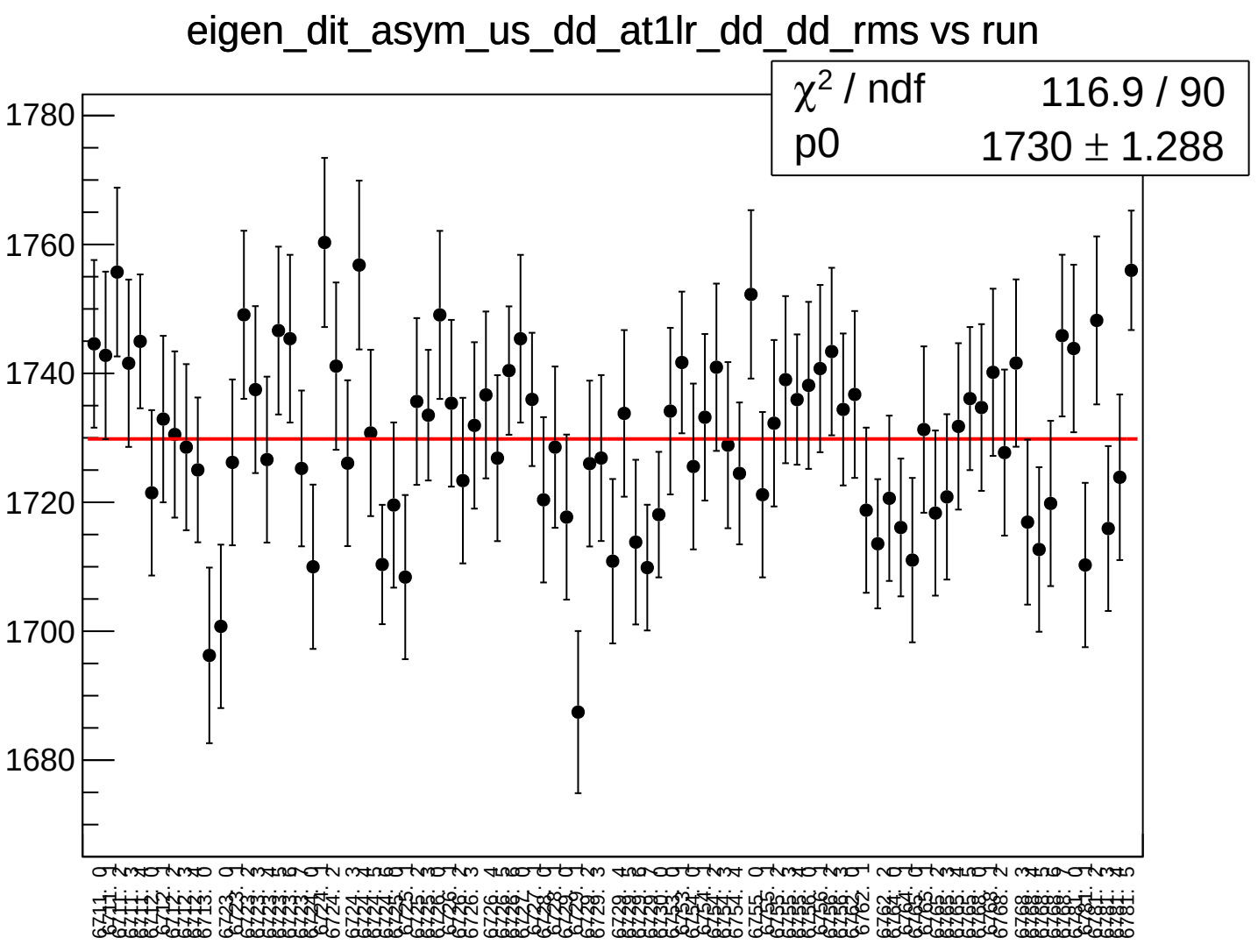

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 108.6 / 90
p0 548.8 ± 1125
pull
Entries 91
Mean 50.71
Std Dev 76.04

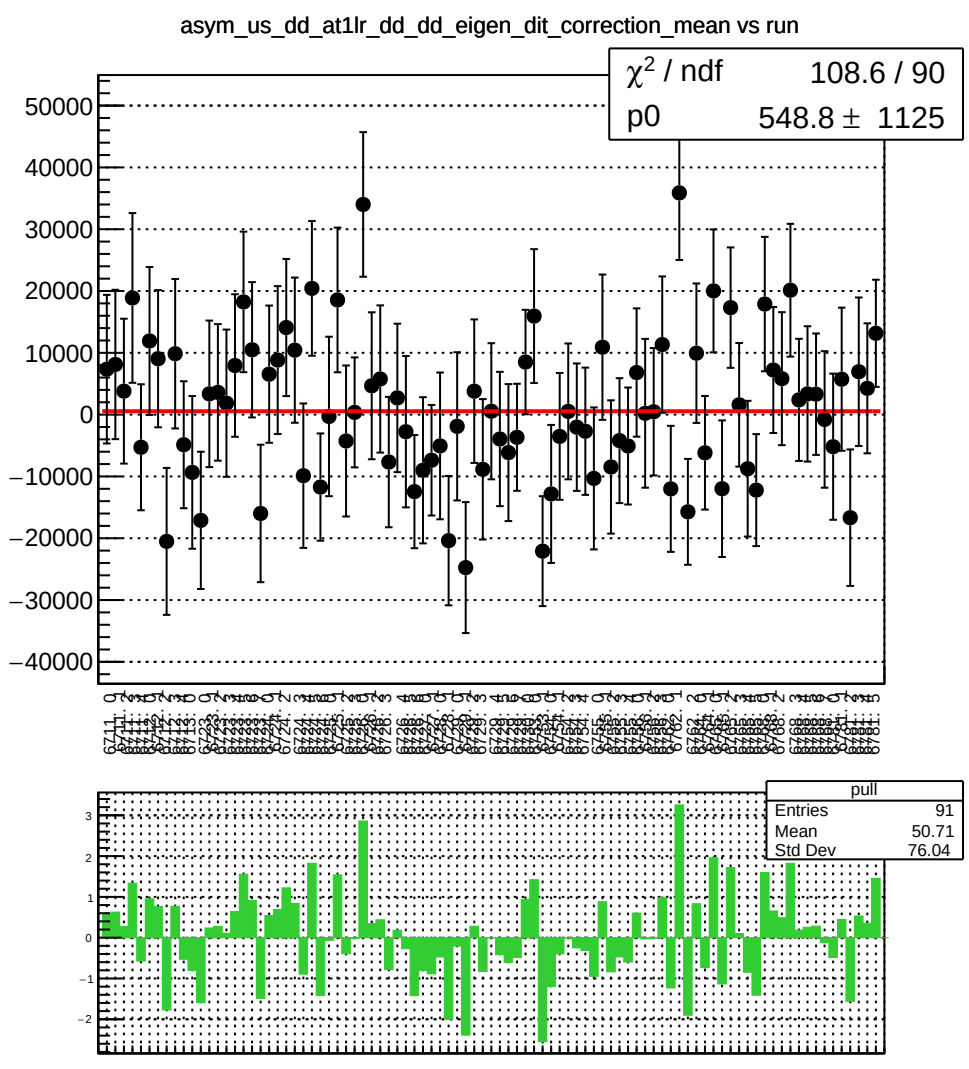

pull1D
Entries 91
Mean 0.02684
Std Dev 1.092

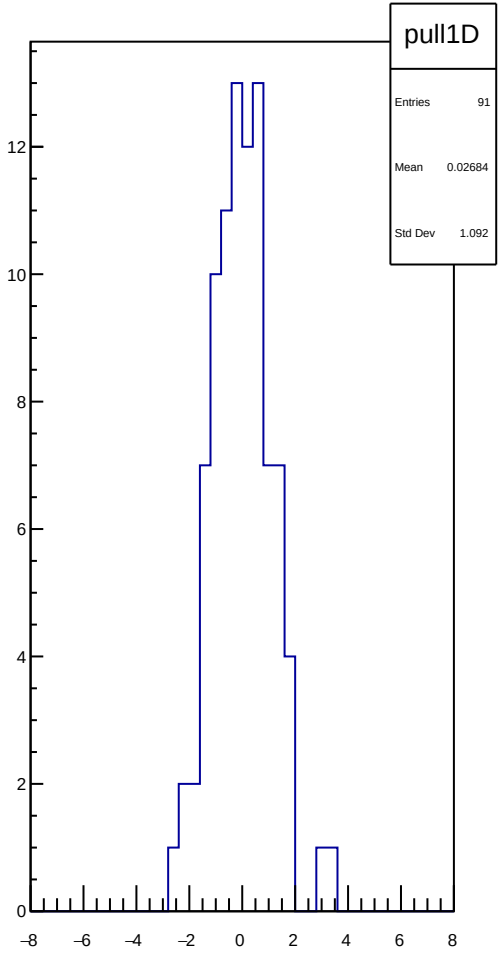

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 7551 / 90
p0 1067 ± 0.7956
1350
1300
1250
1200
1150
1100
1050
1000
950
900

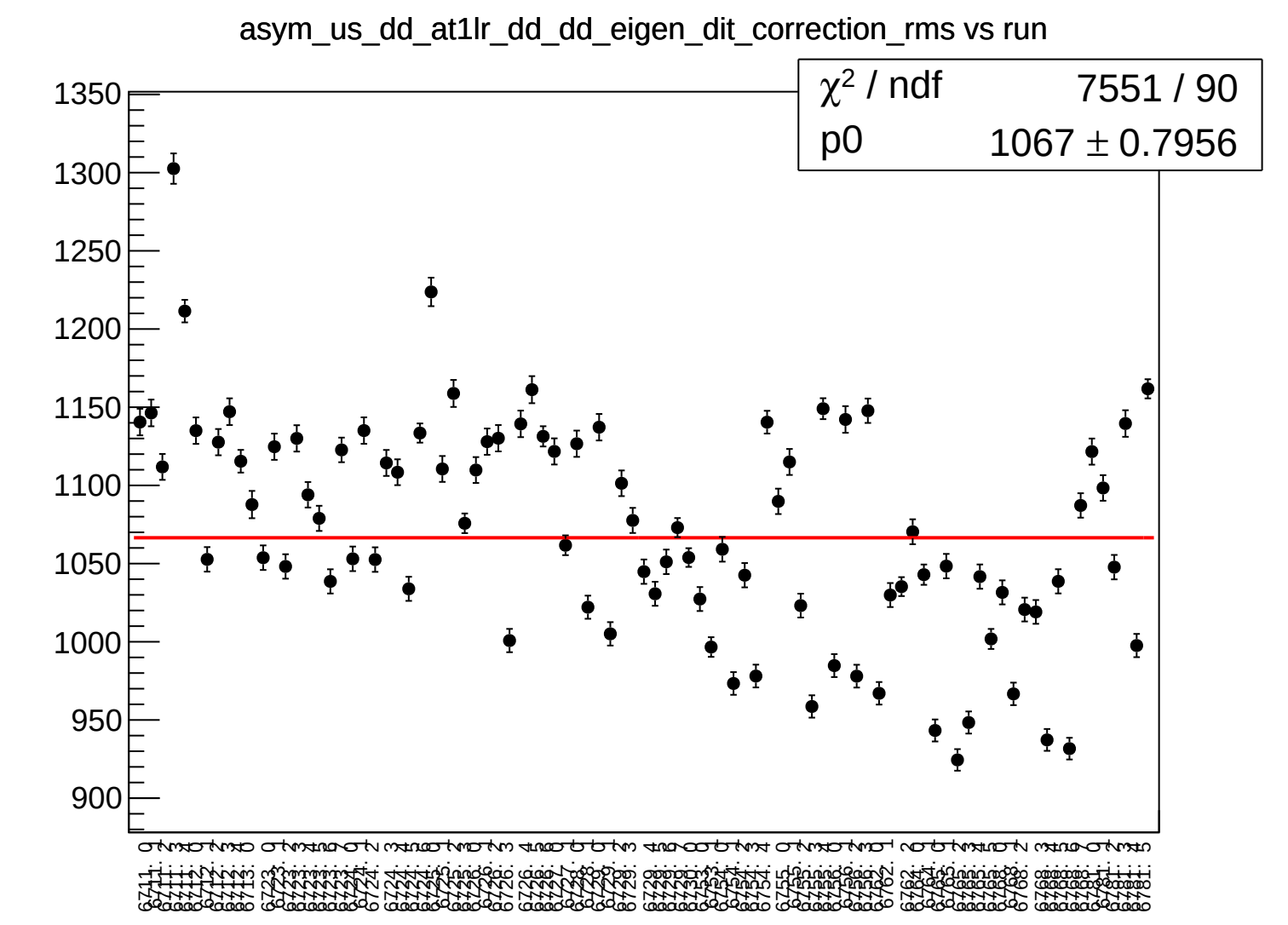

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 102 / 90
p0 −3109 ± 1821
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 320.3
Std Dev 0
3
2
1
0
−1
−2

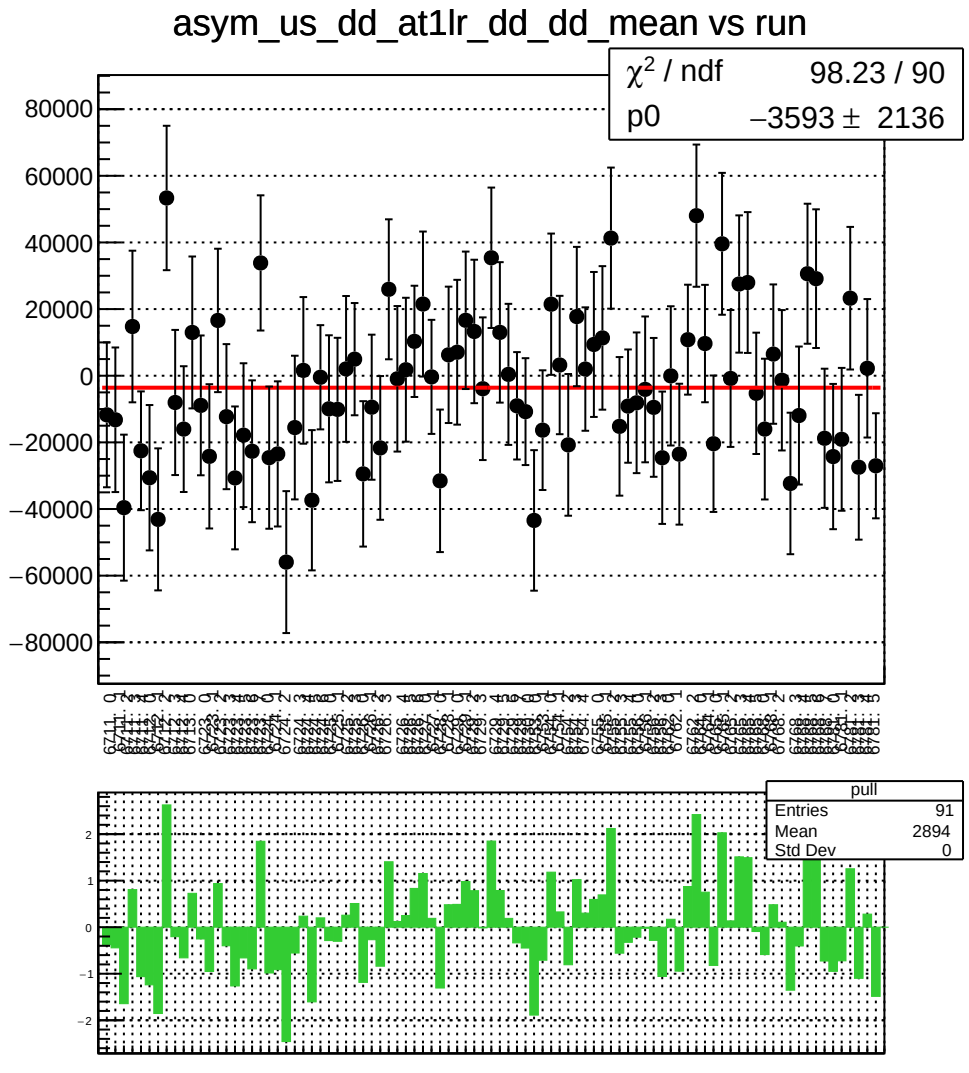

pull1D
Entries 91
Mean 0.02093
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

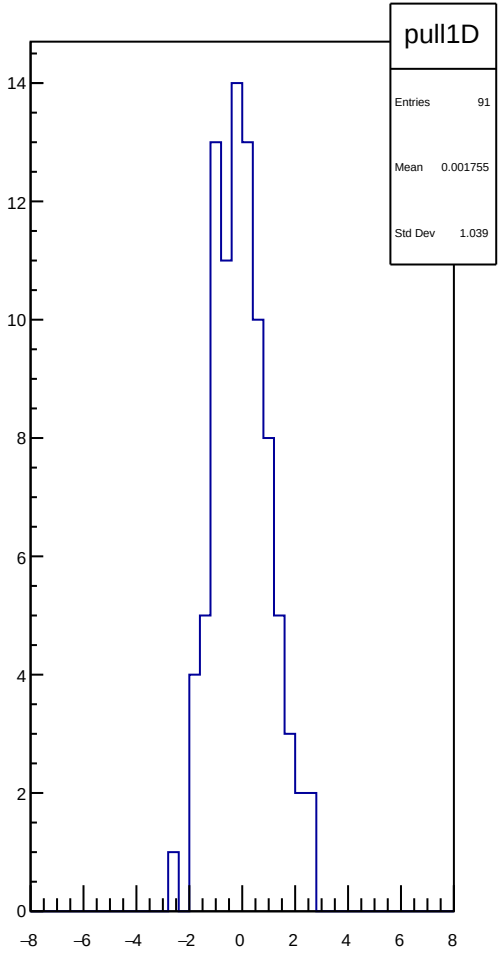

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 116.9 / 90
p0 1730 ± 1.288
1780
1760
1740
1720
1700
1680

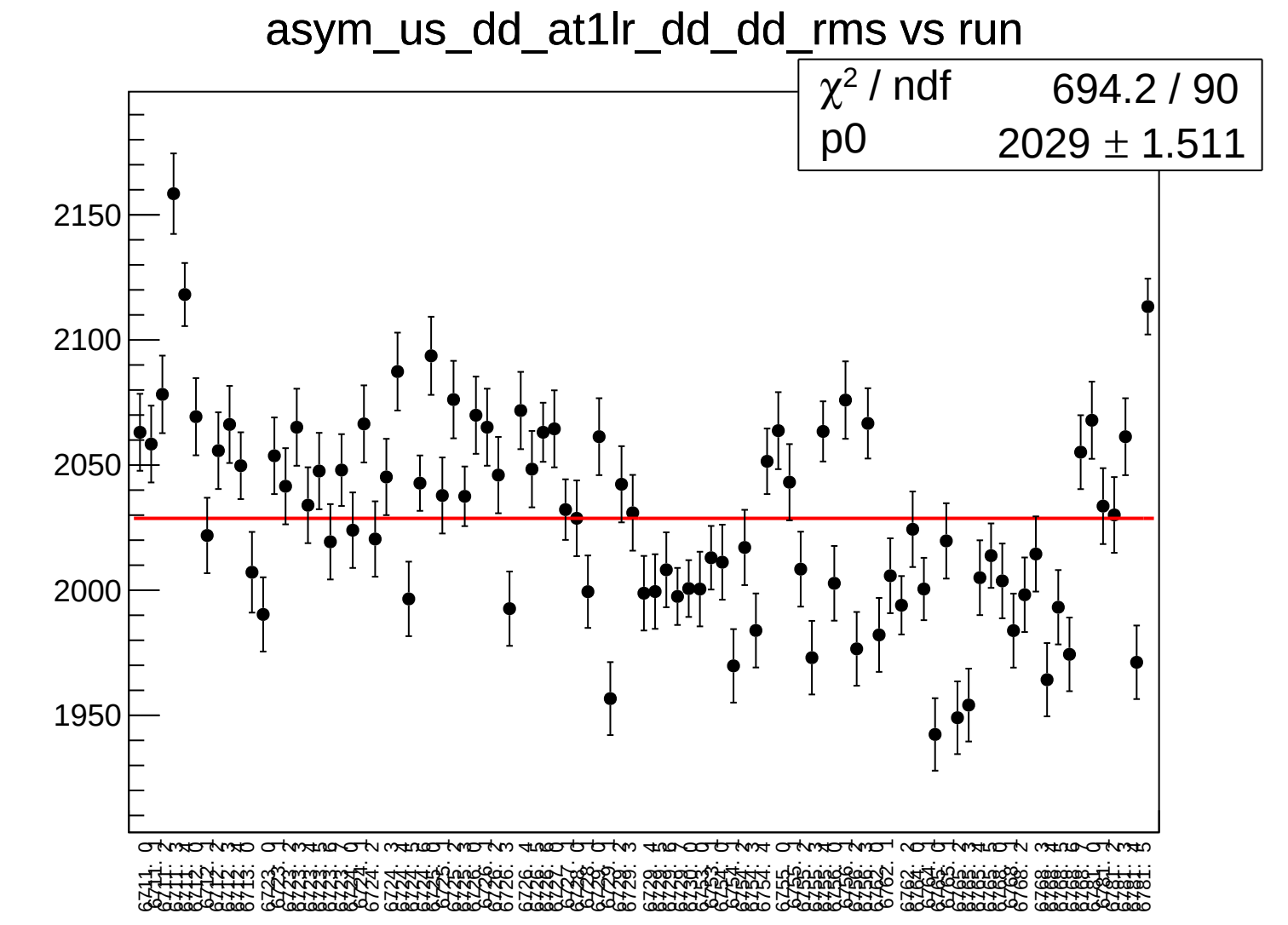

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 108.6 / 90
p0 548.8 ± 1125
pull
Entries 91
Mean 50.71
Std Dev 76.04

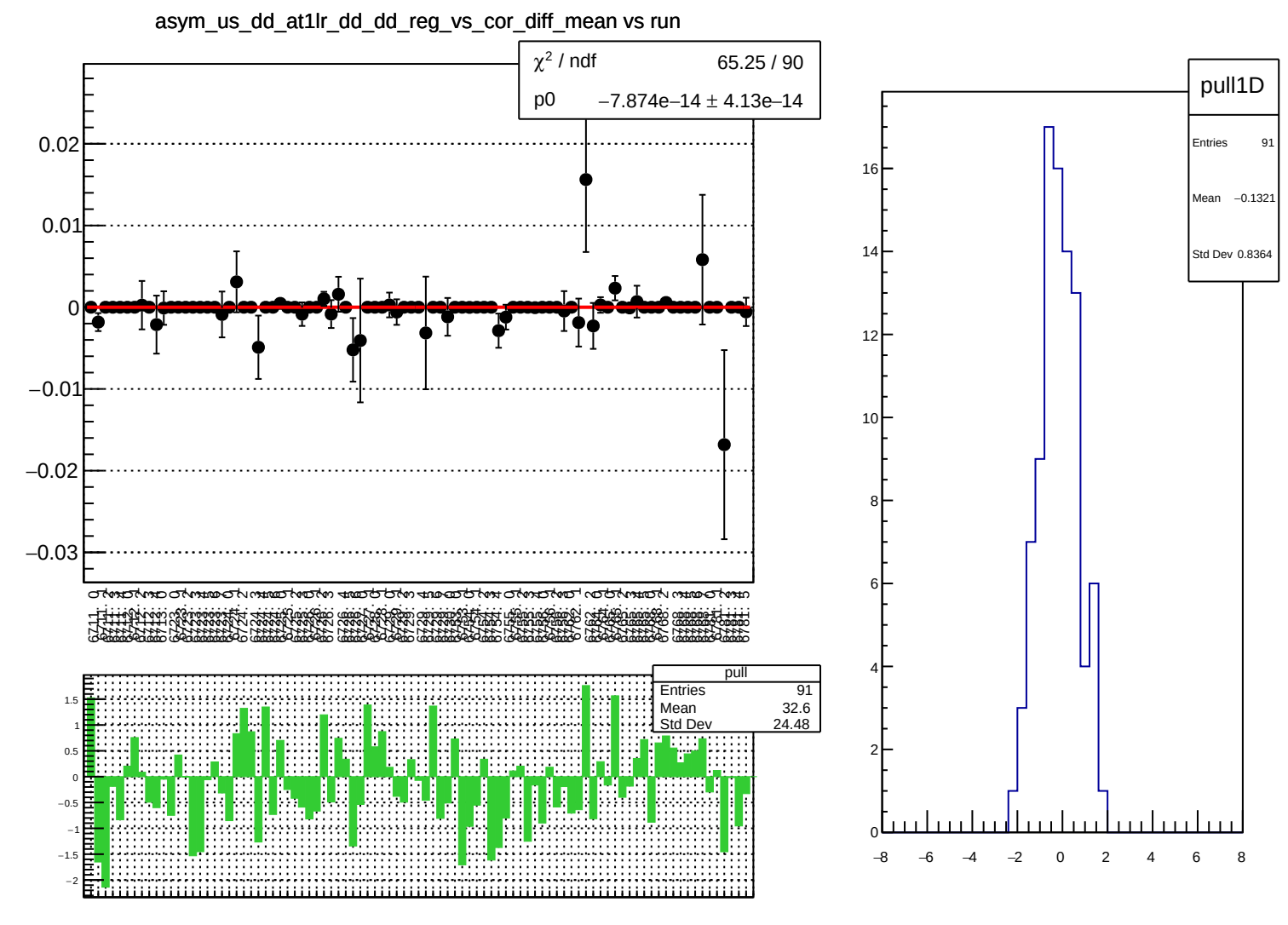

pull1D
Entries 91
Mean 0.02684
Std Dev 1.092

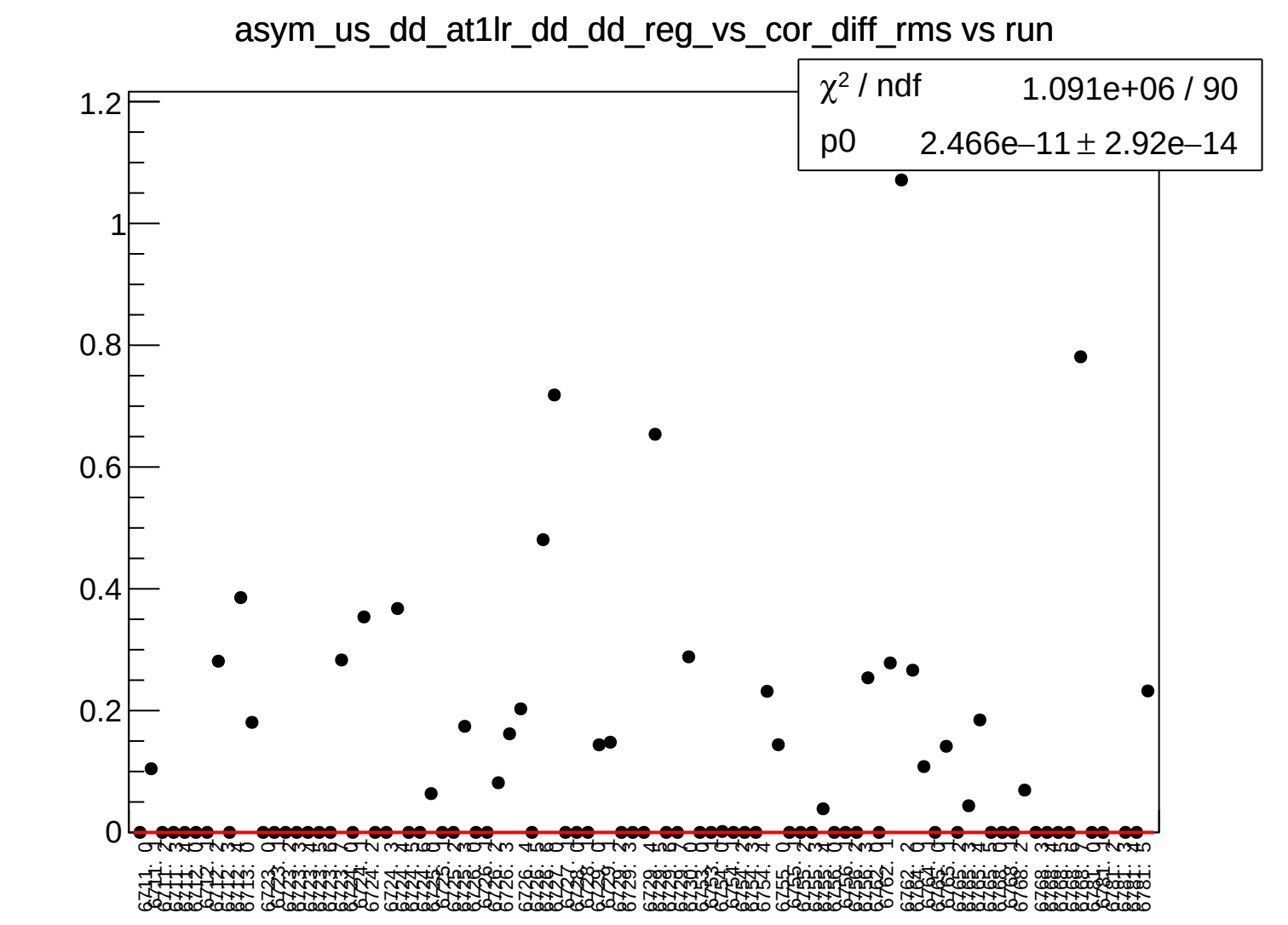

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 7551 / 90
p0 1067 ± 0.7956
1350
1300
1250
1200
1150
1100
1050
1000
950
900

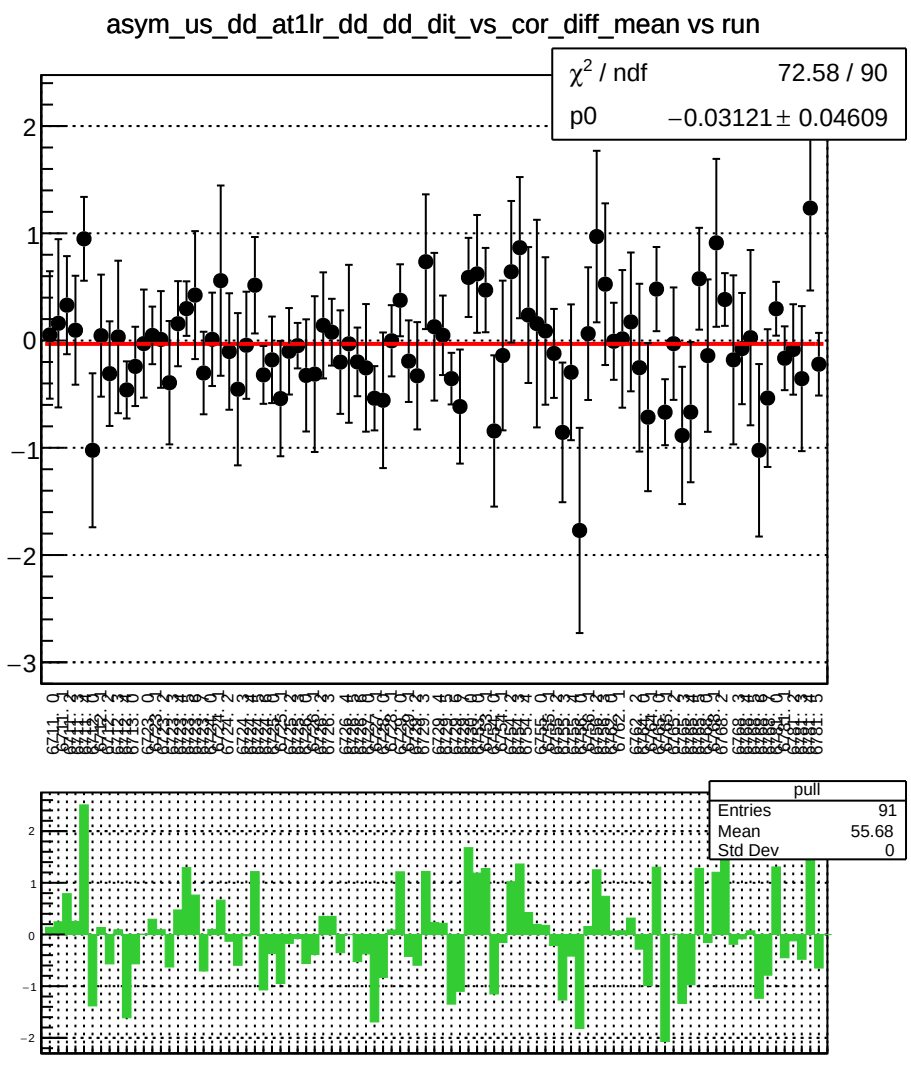

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 98.23 / 90
p0 −3593 ± 2136
pull
Entries 91
Mean 2894
Std Dev 0

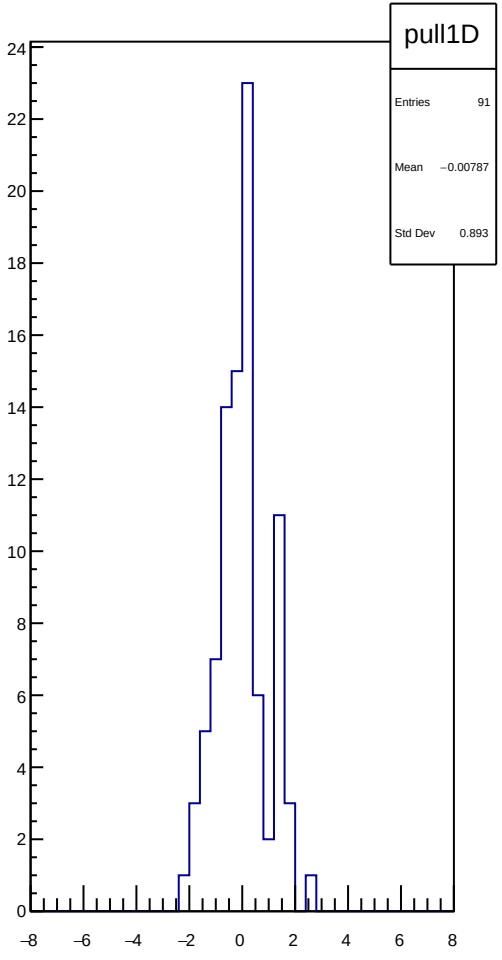

pull1D
Entries 91
Mean 0.001755
Std Dev 1.039

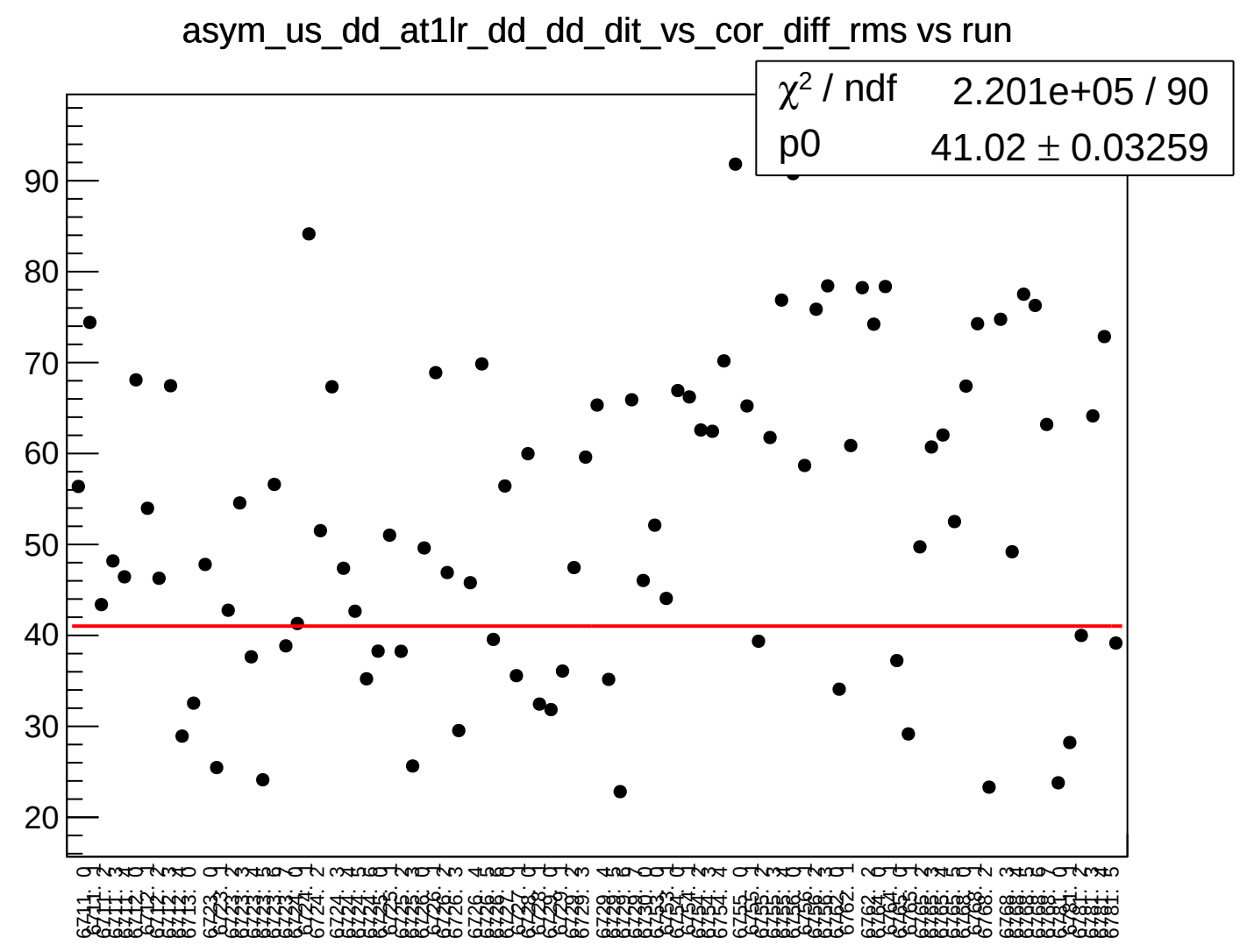

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 694.2 / 90
p0 2029 ± 1.511
2150
2100
2050
2000
1950

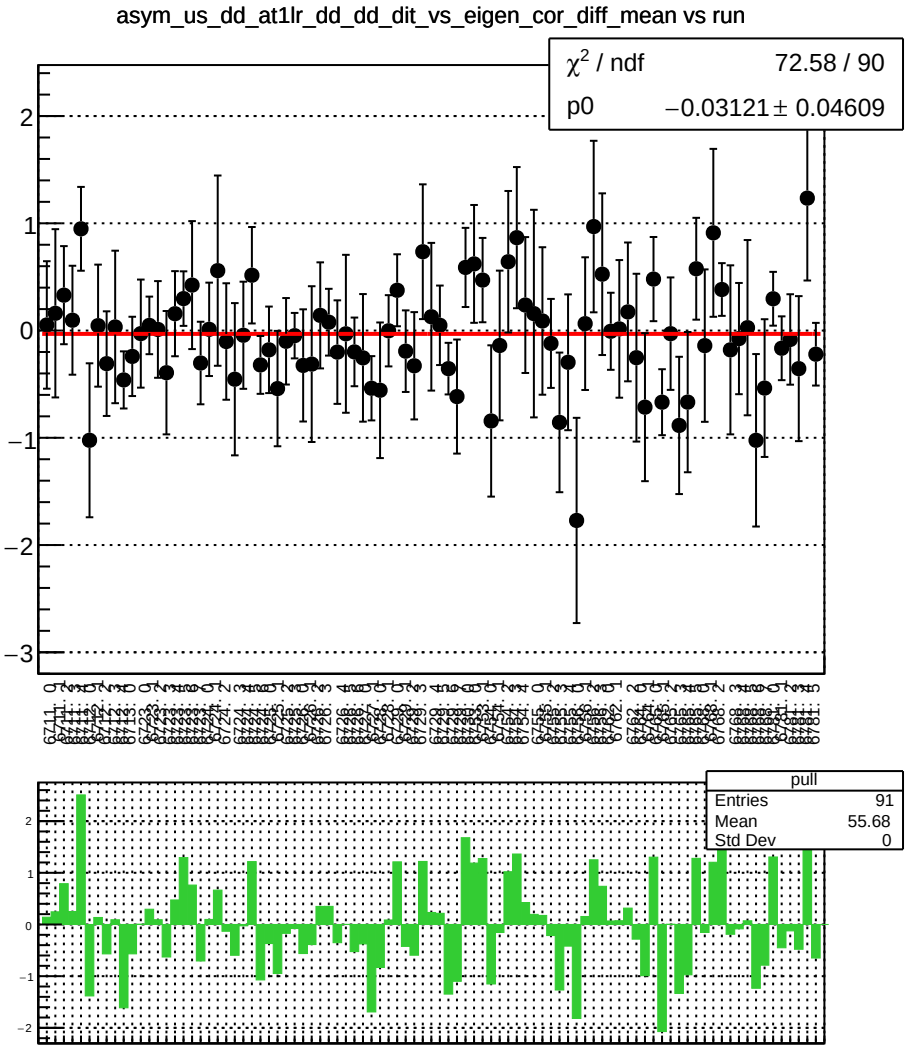

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 65.25 / 90
p0 −7.874e−14 ± 4.13e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 91
Mean 32.6
Std Dev 24.48
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean −0.1321
Std Dev 0.8364
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

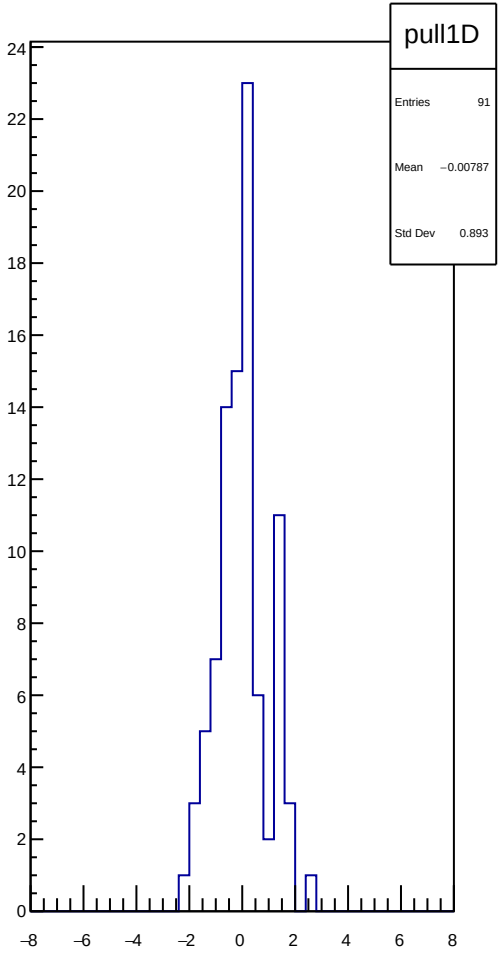

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.091e+06 / 90
p0 2.466e−11 ± 2.92e−14
1.2
1
0.8
0.6
0.4
0.2
0

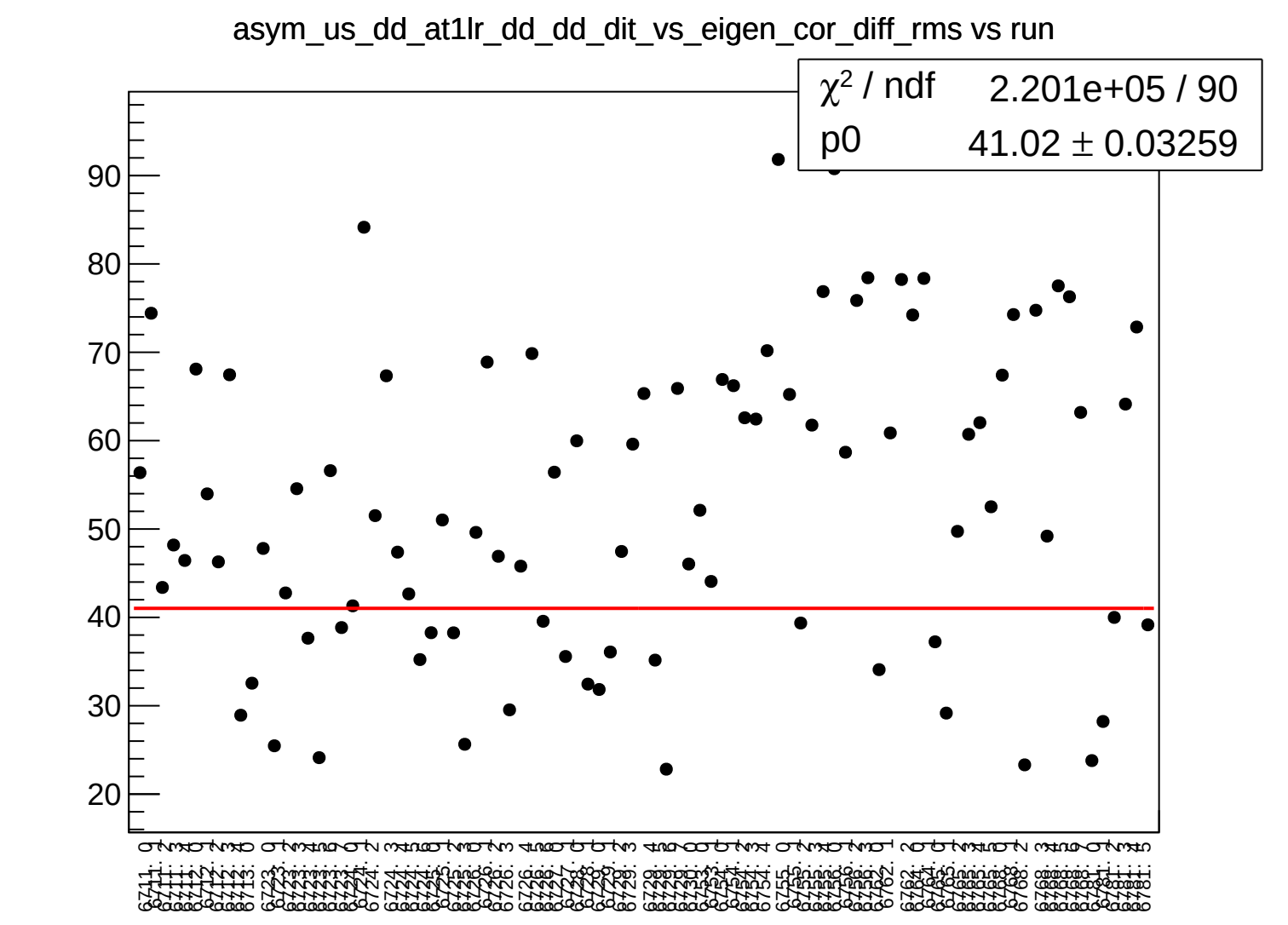

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.58 / 90
p0 −0.03121 ± 0.04609
pull
Entries 91
Mean 55.68
Std Dev 0

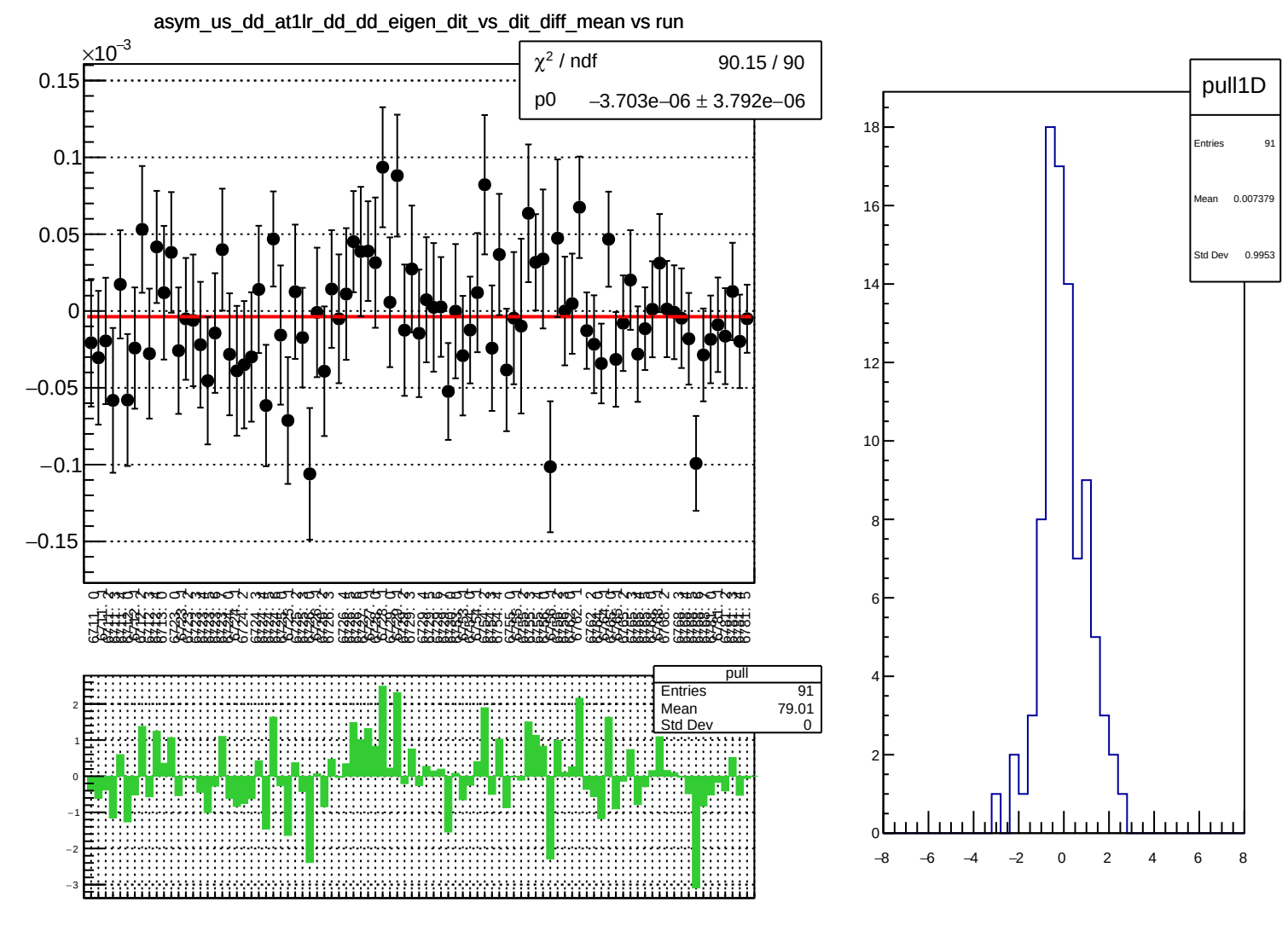

pull1D
Entries 91
Mean −0.00787
Std Dev 0.893

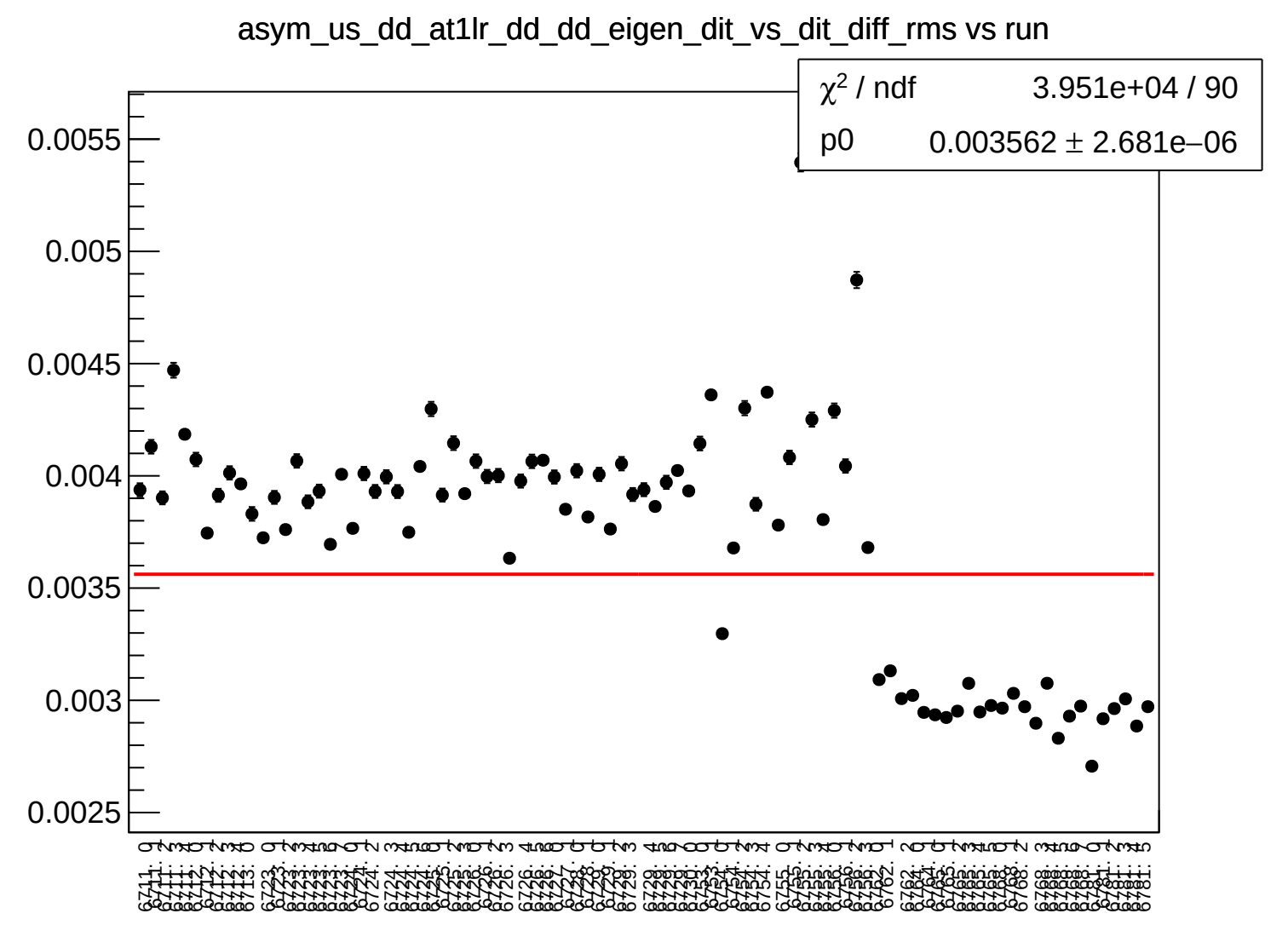

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.201e+05 / 90
p0 41.02 ± 0.03259
90
80
70
60
50
40
30
20

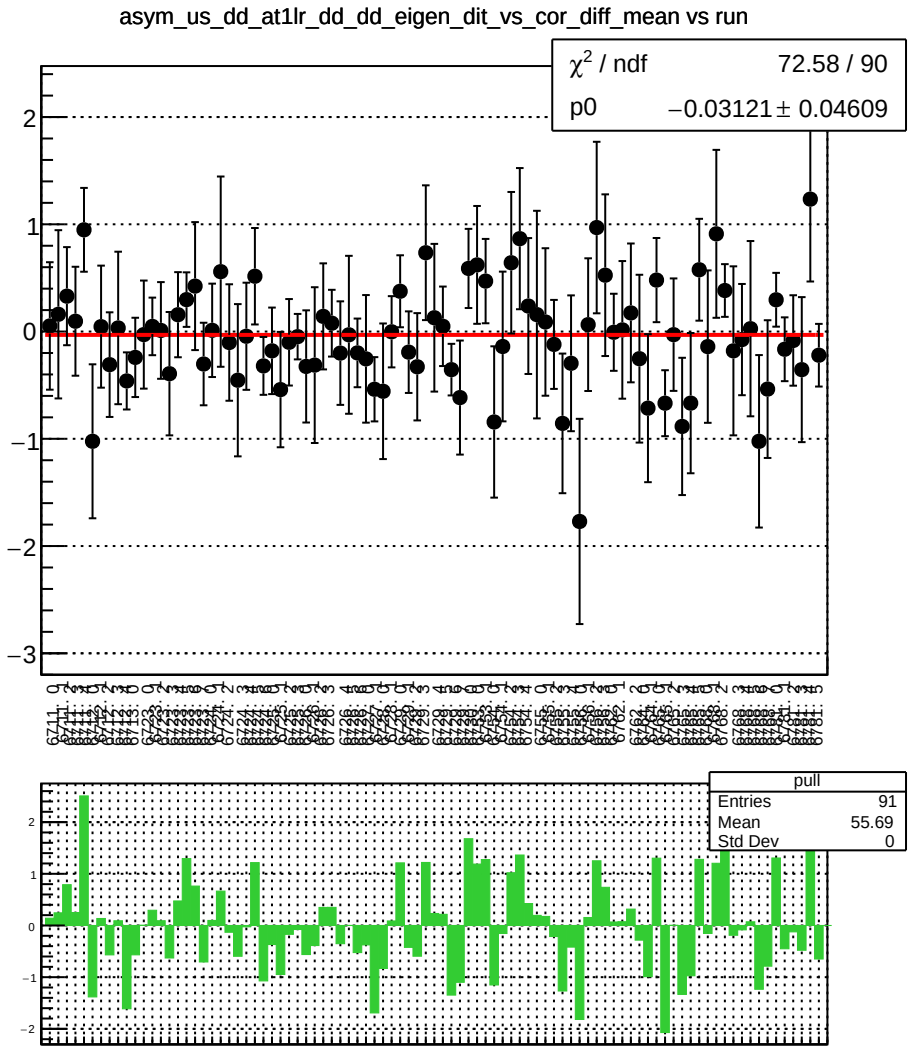

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.58 / 90
p0 −0.03121 ± 0.04609
pull
Entries 91
Mean 55.68
Std Dev 0

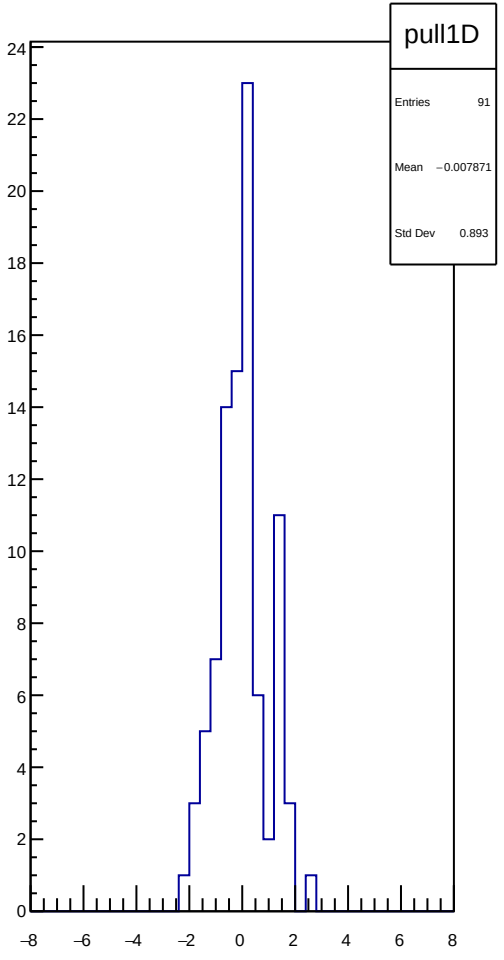

pull1D
Entries 91
Mean −0.00787
Std Dev 0.893

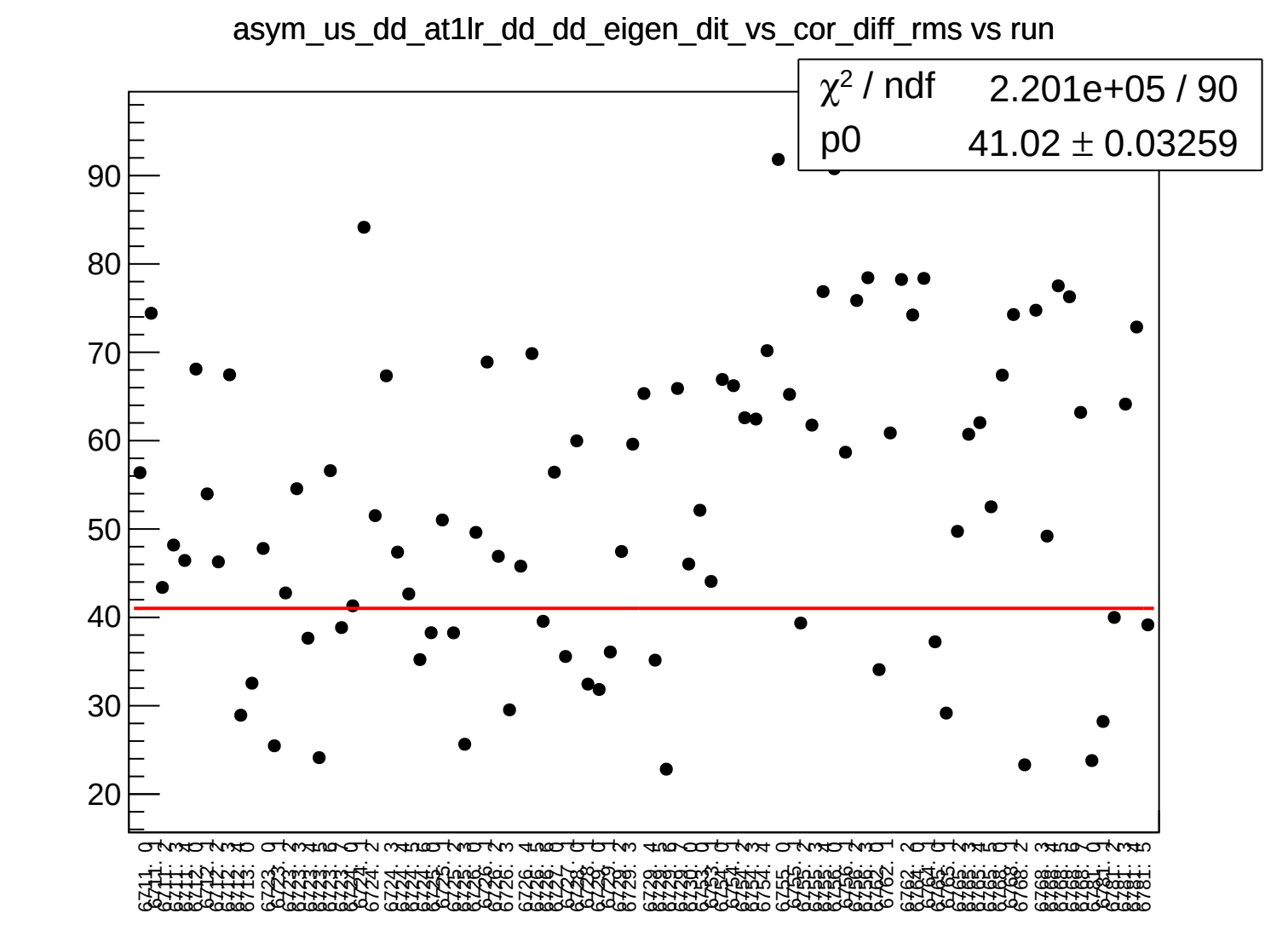

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.201e+05 / 90
p0 41.02 ± 0.03259
90
80
70
60
50
40
30
20

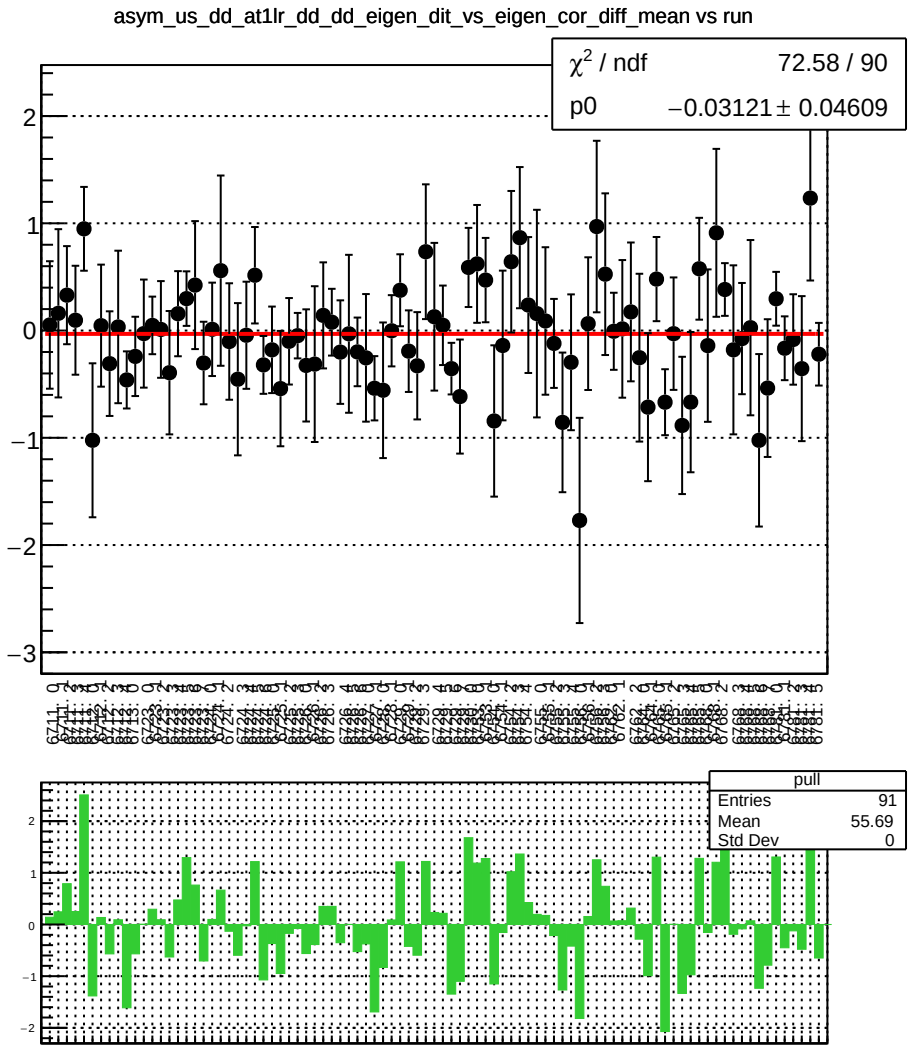

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.15 / 90
p0 −3.703e−06 ± 3.792e−06
pull
Entries 91
Mean 79.01
Std Dev 0
pull1D
Entries 91
Mean 0.007379
Std Dev 0.9953

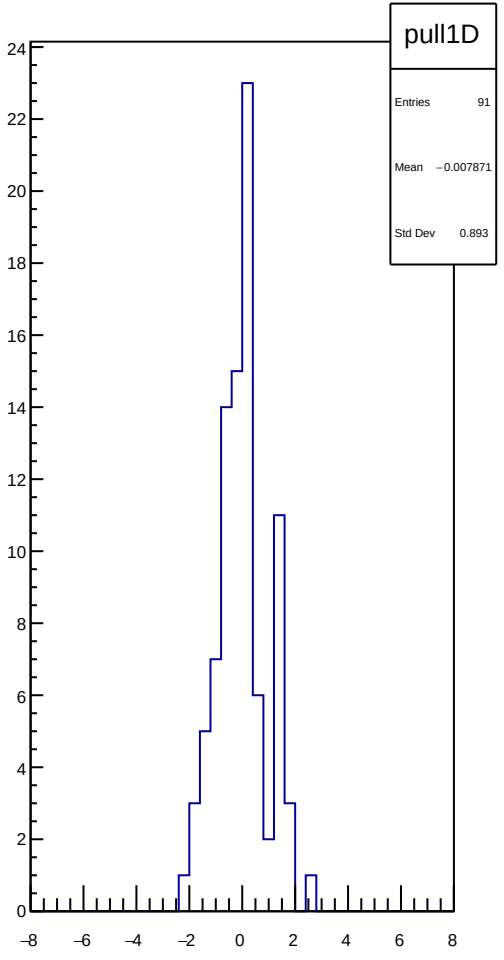

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.951e+04 / 90
p0 0.003562 ± 2.681e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

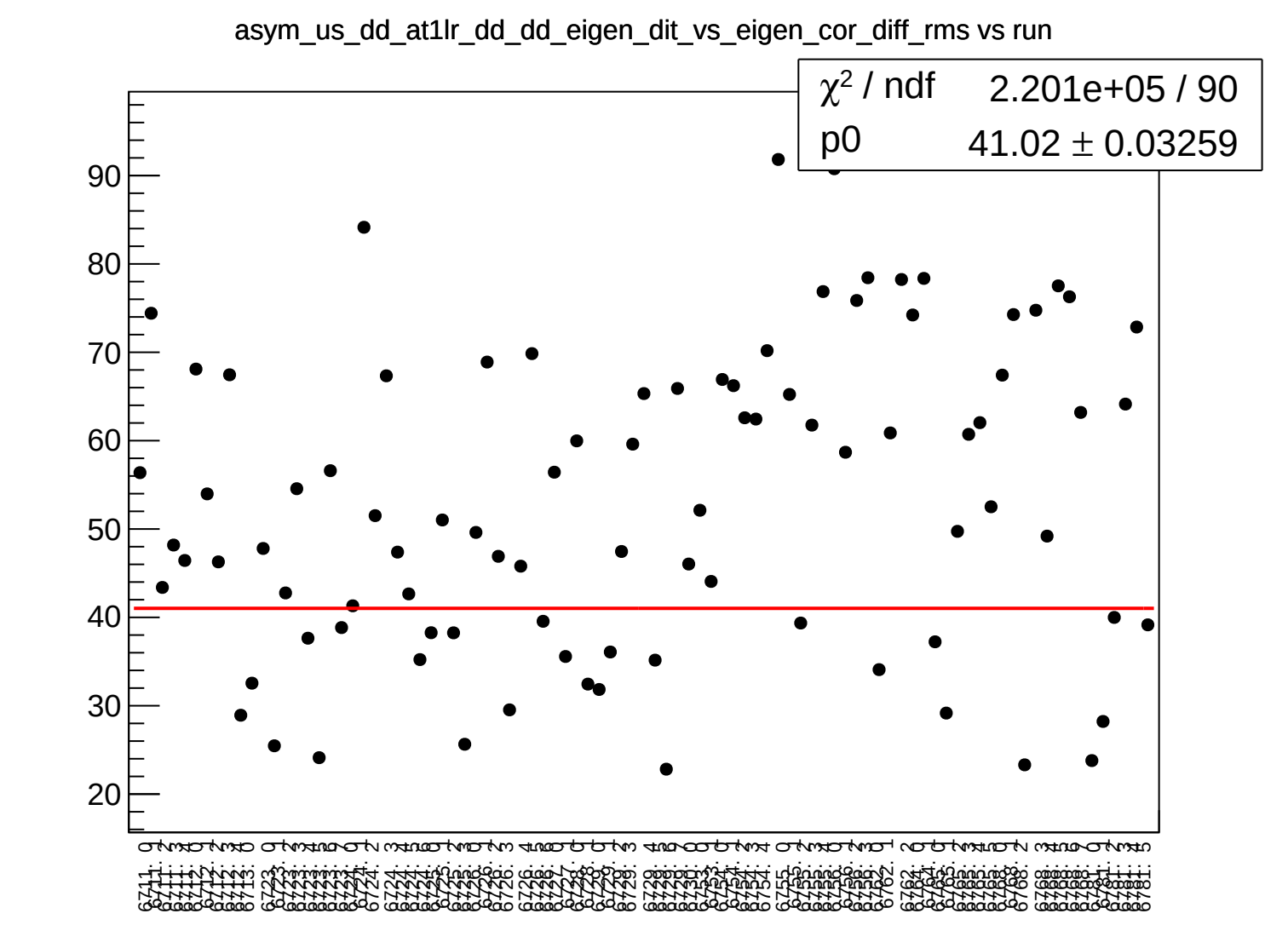

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.58 / 90
p0 −0.03121 ± 0.04609
pull
Entries 91
Mean 55.69
Std Dev 0

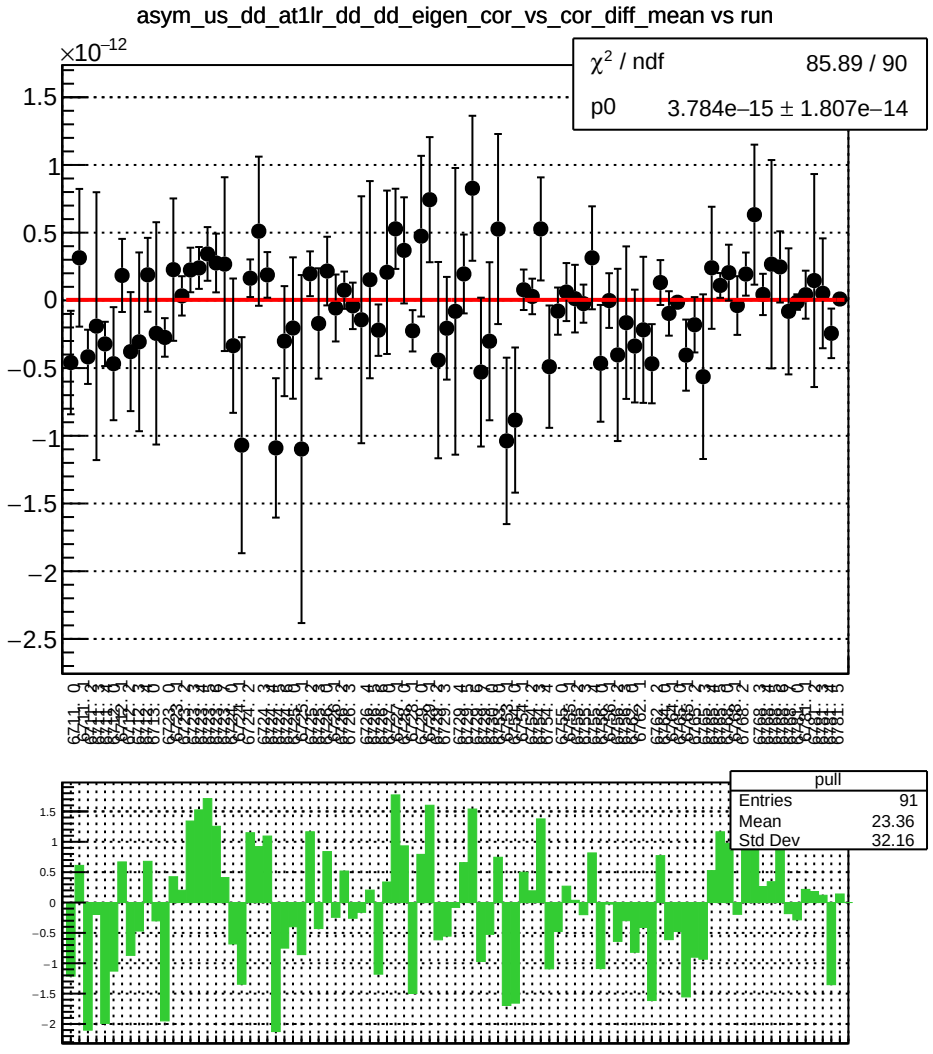

pull1D
Entries 91
Mean −0.007871
Std Dev 0.893

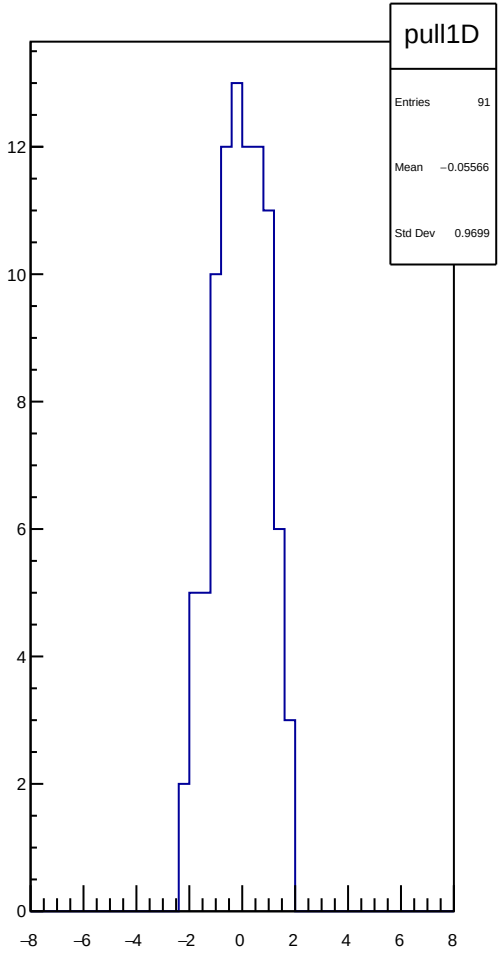

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.201e+05 / 90
p0 41.02 ± 0.03259
90
80
70
60
50
40
30
20

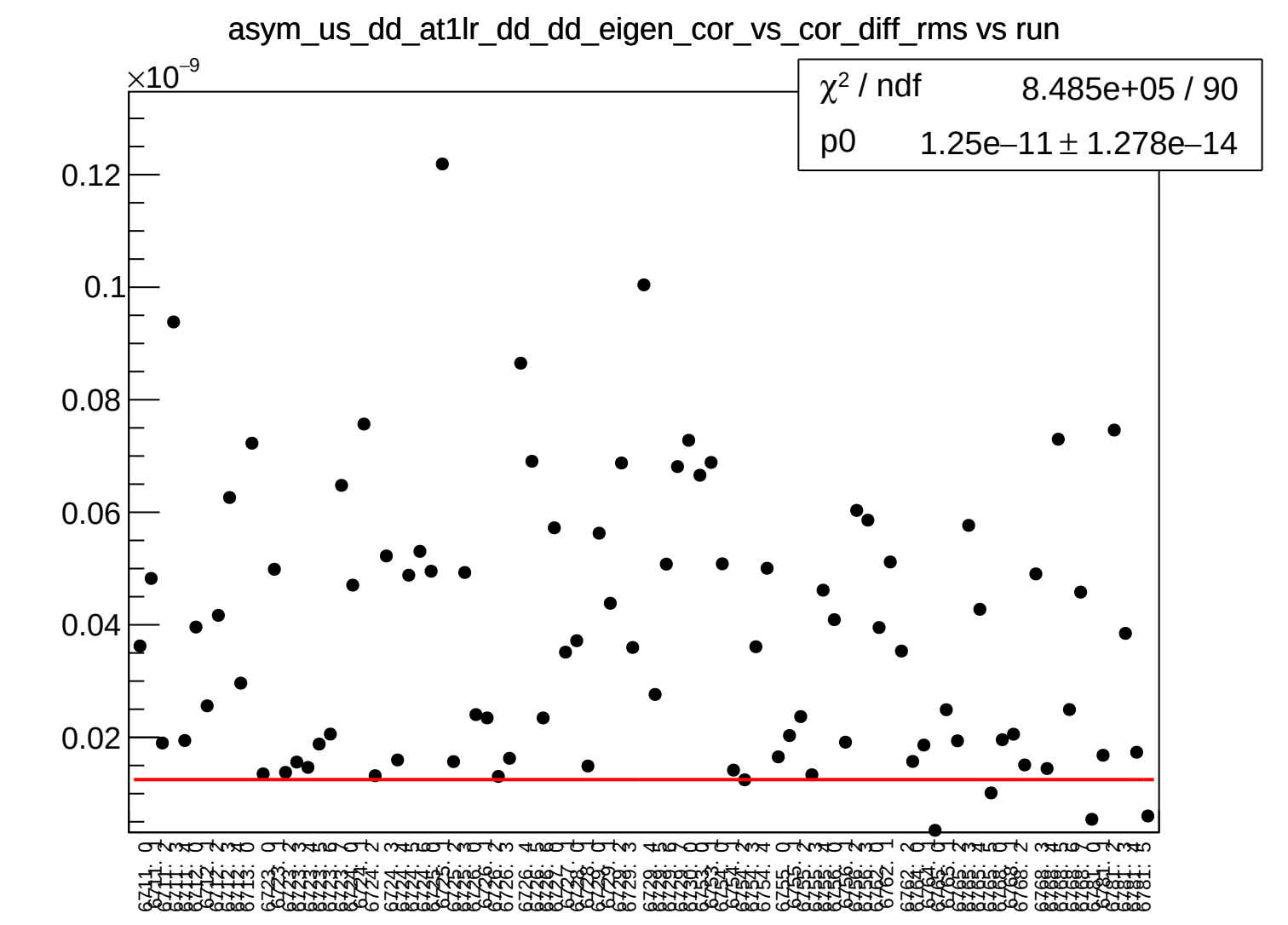

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.58 / 90
p0 −0.03121 ± 0.04609
pull
Entries 91
Mean 55.69
Std Dev 0

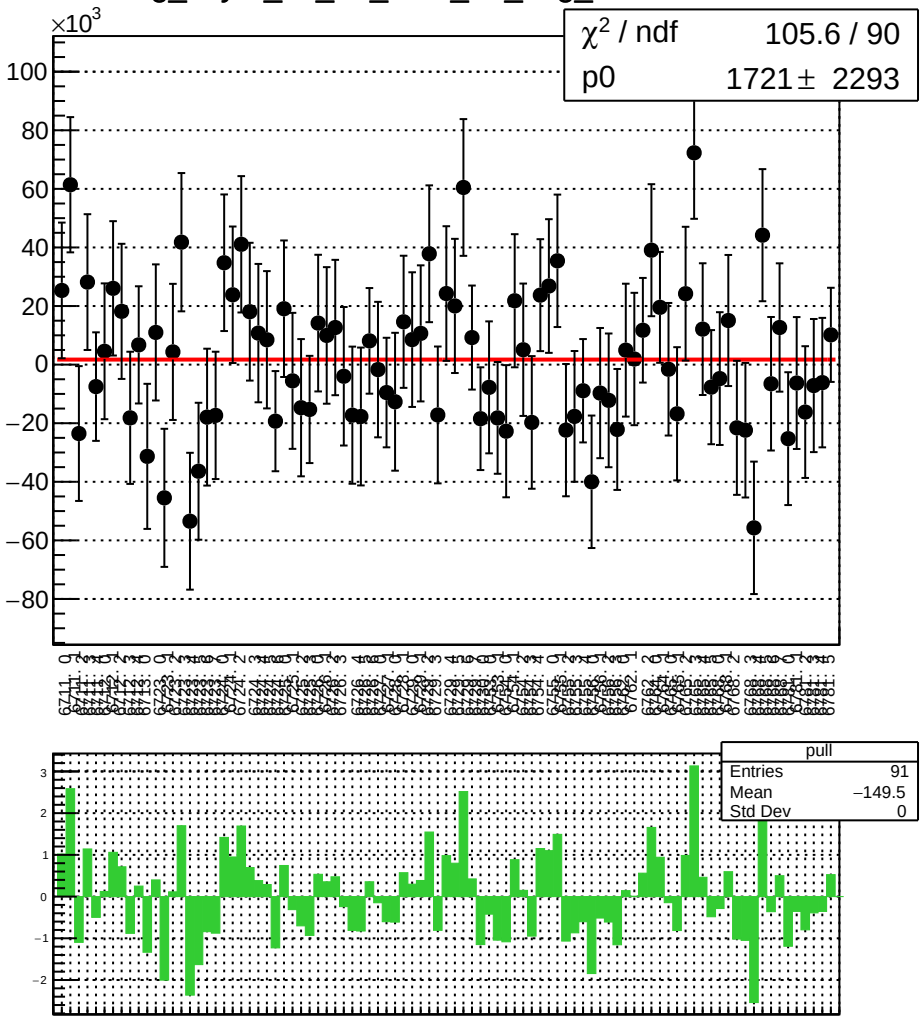

pull1D
Entries 91
Mean −0.007871
Std Dev 0.893

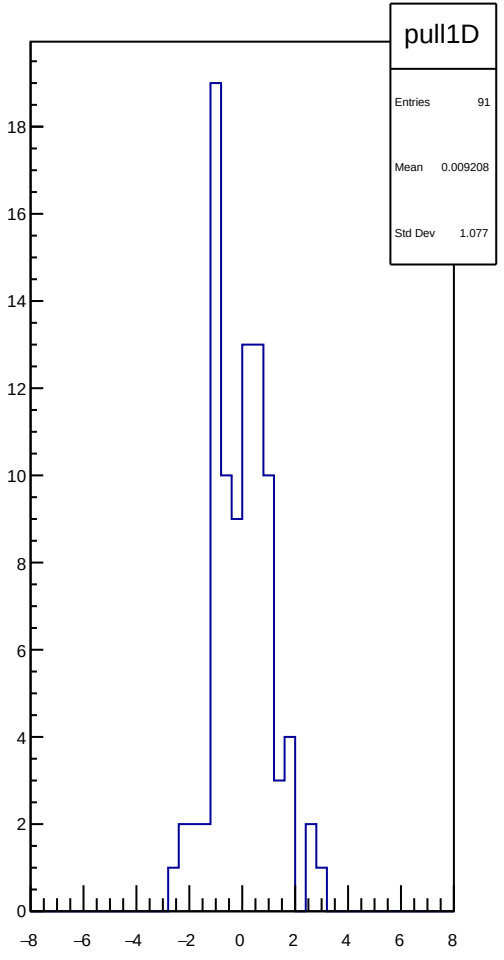

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.201e+05 / 90
p0 41.02 ± 0.03259
90
80
70
60
50
40
30
20

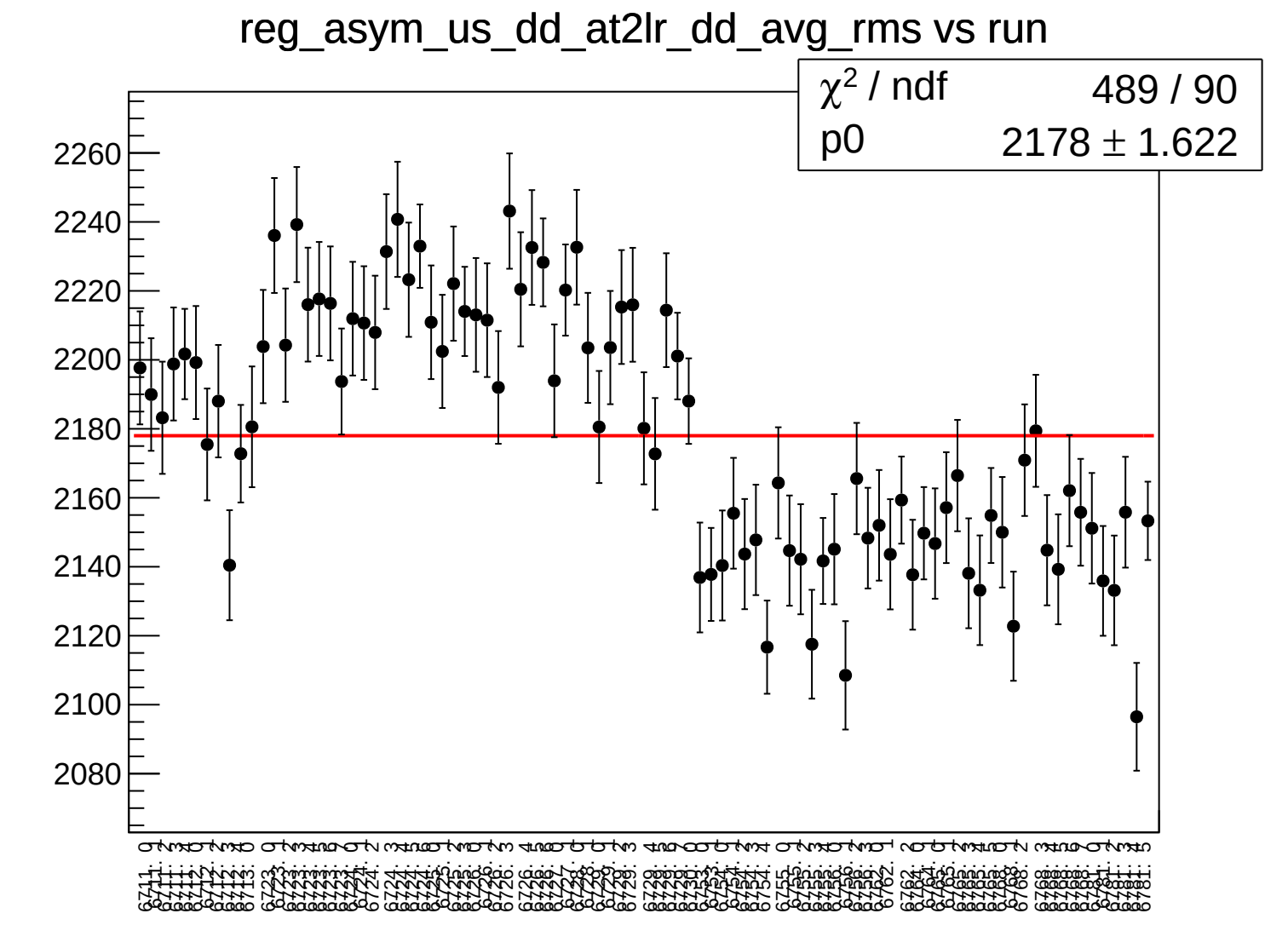

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.89 / 90
p0 3.784e−15 ± 1.807e−14
pull
Entries 91
Mean 23.36
Std Dev 32.16

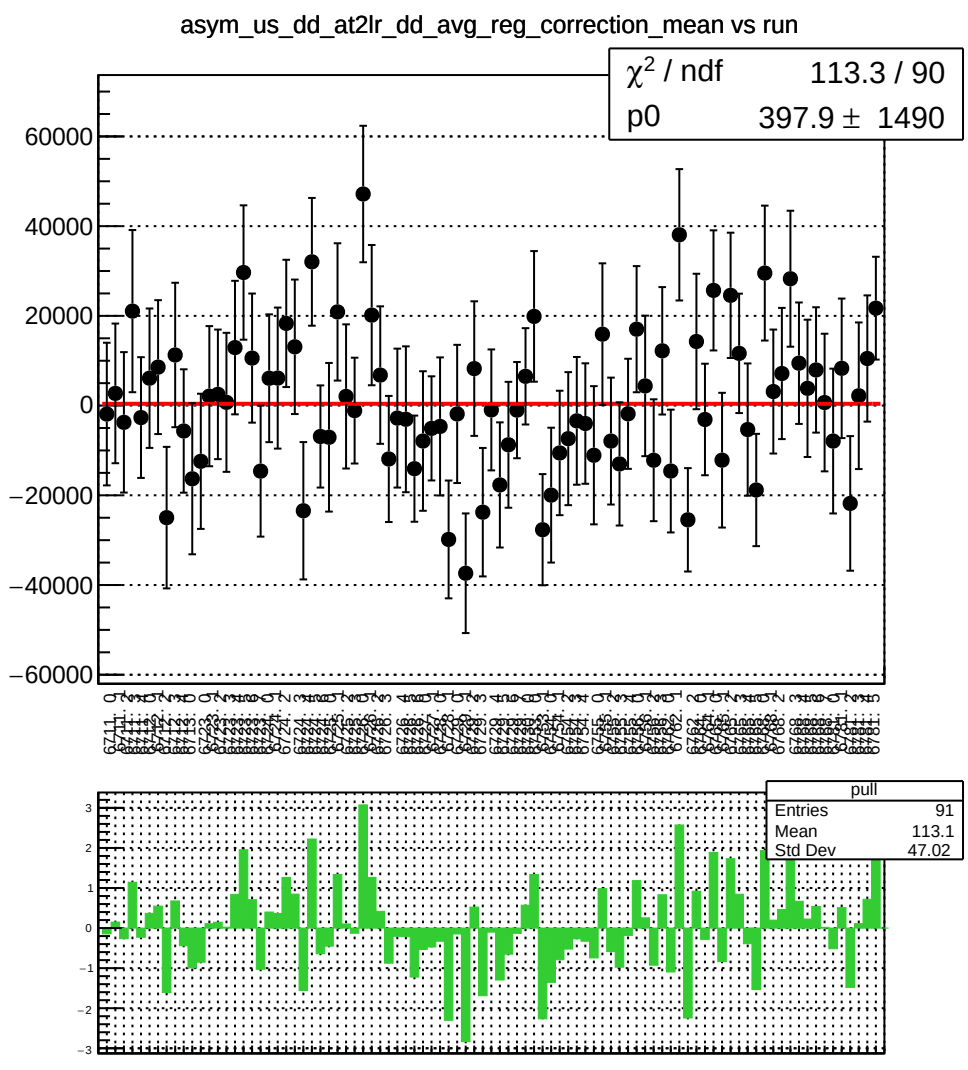

pull1D
Entries 91
Mean −0.05566
Std Dev 0.9699

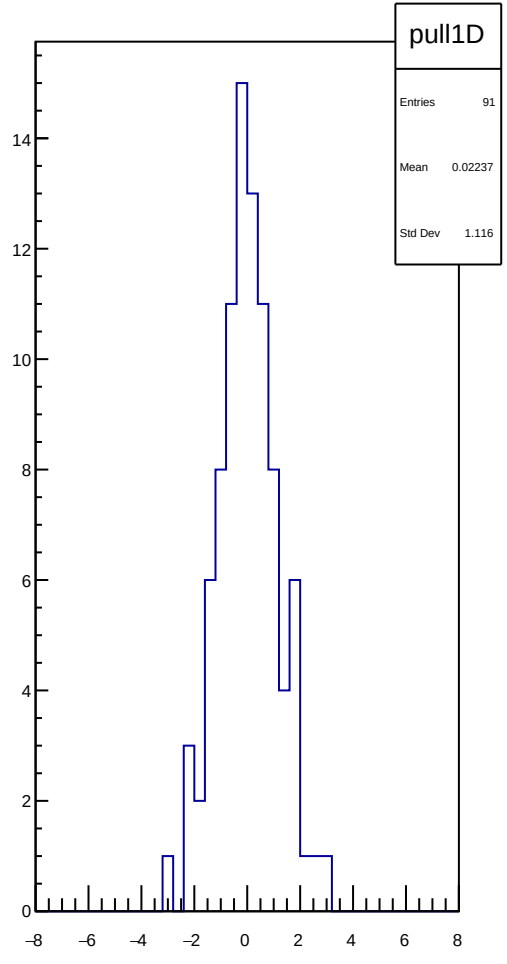

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.485e+05 / 90
p0 1.25e−11 ± 1.278e−14
0.12
0.1
0.08
0.06
0.04
0.02

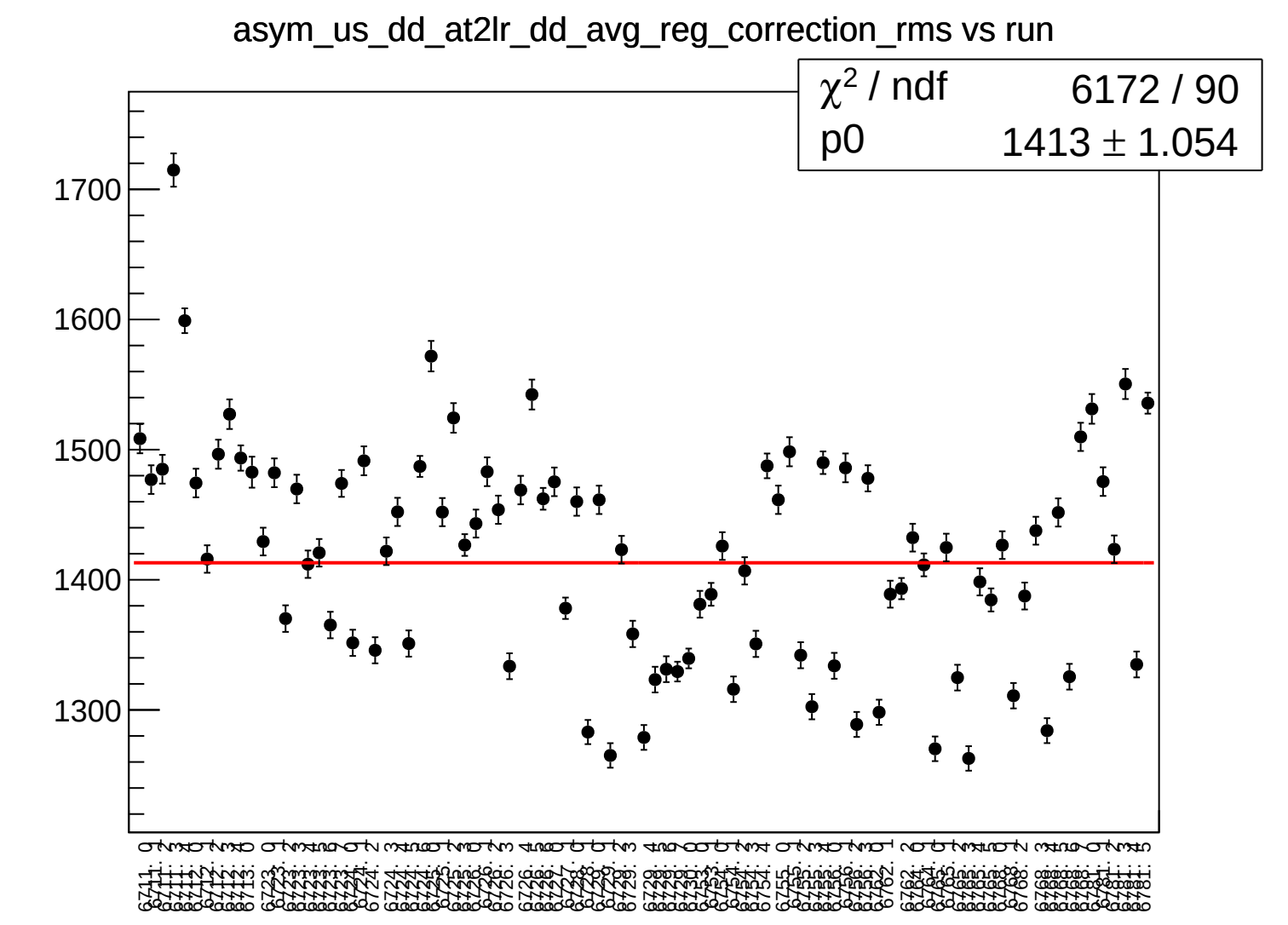

reg_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 105.6 / 90
p0 1721 ± 2293
pull
Entries 91
Mean −149.5
Std Dev 0

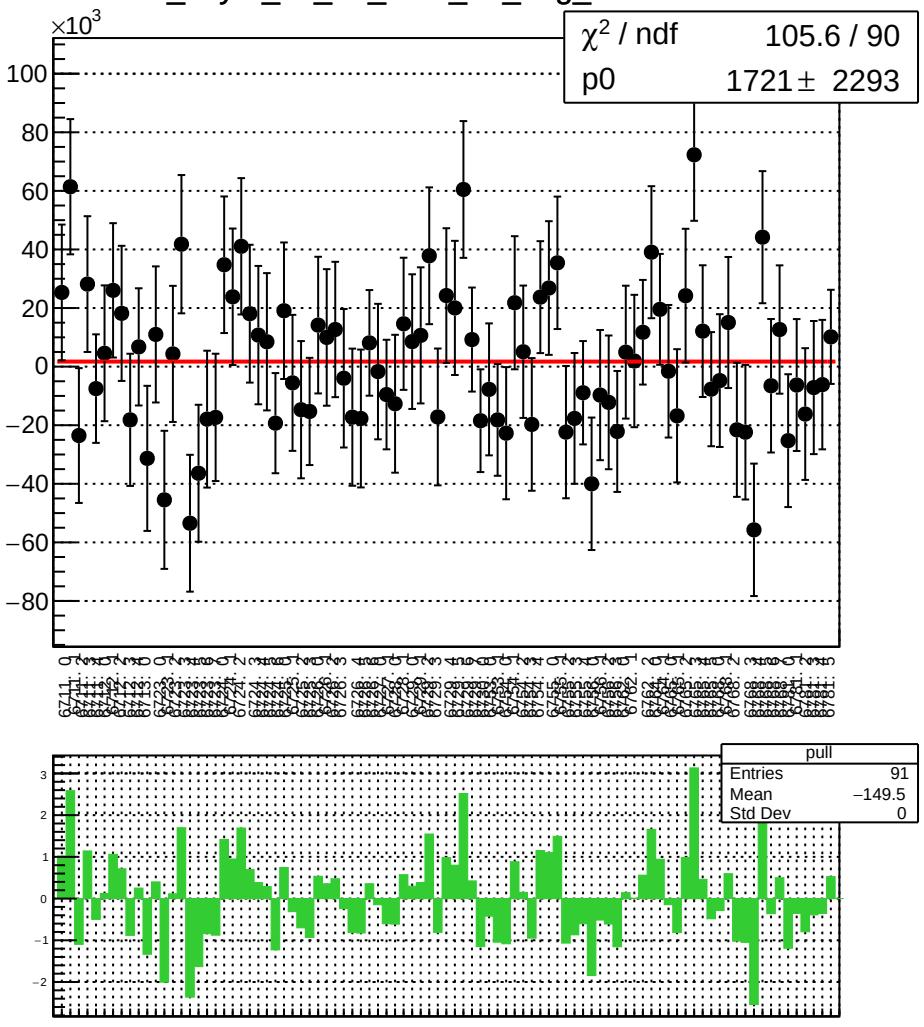

pull1D
Entries 91
Mean 0.009208
Std Dev 1.077

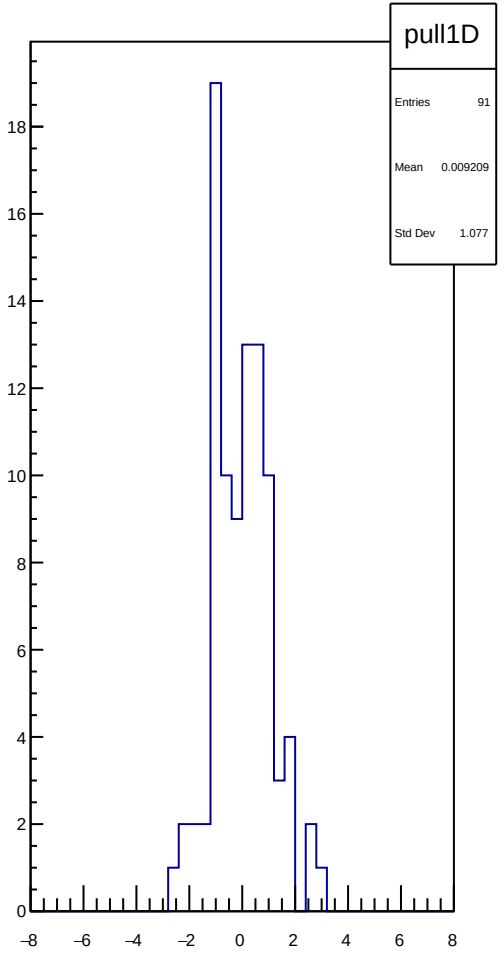

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 489 / 90
p0 2178 ± 1.622
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080

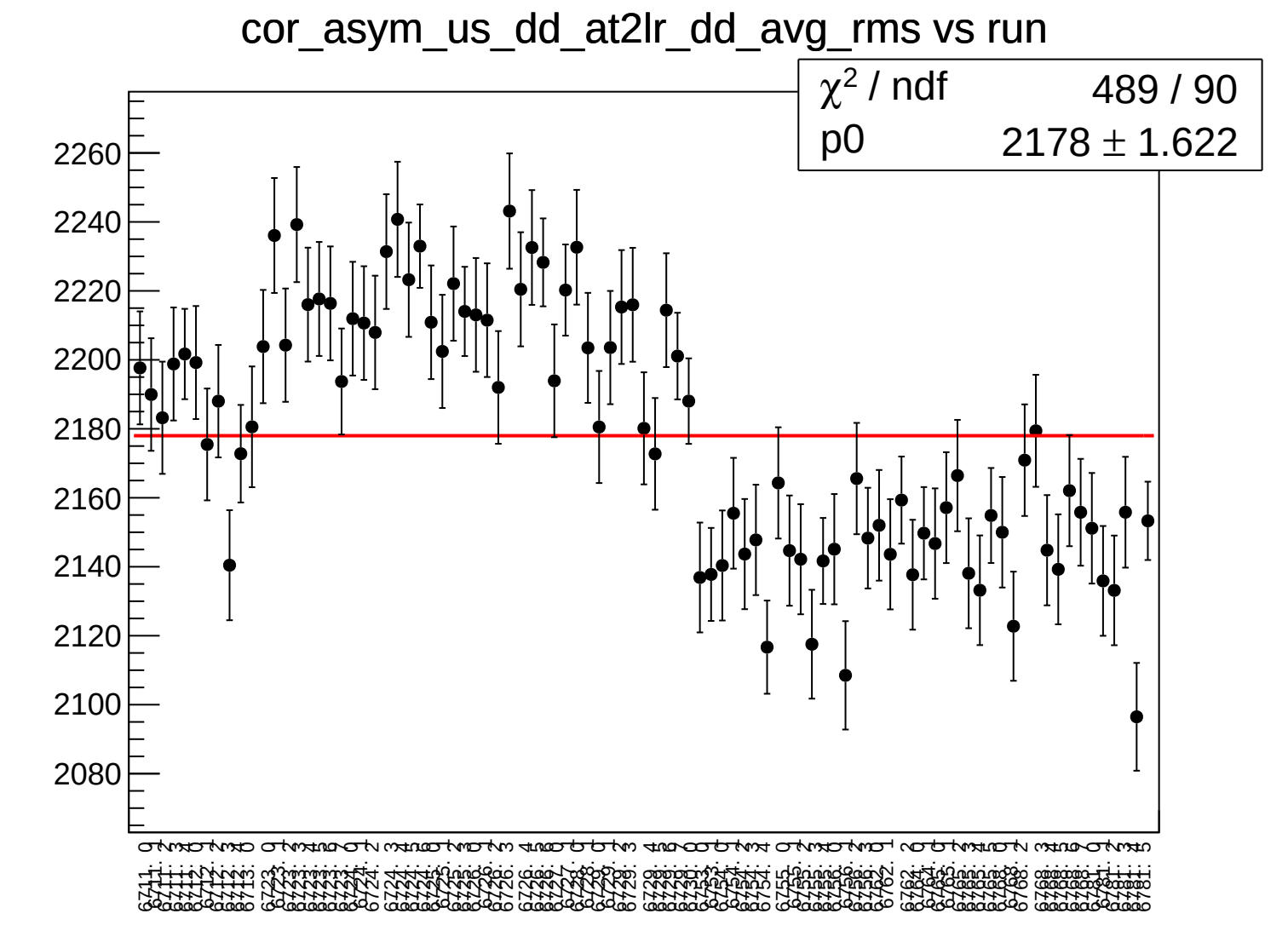

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 113.3 / 90
p0 397.9 ± 1490
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 113.1
Std Dev 47.02
3
2
1
0
−1
−2
−3

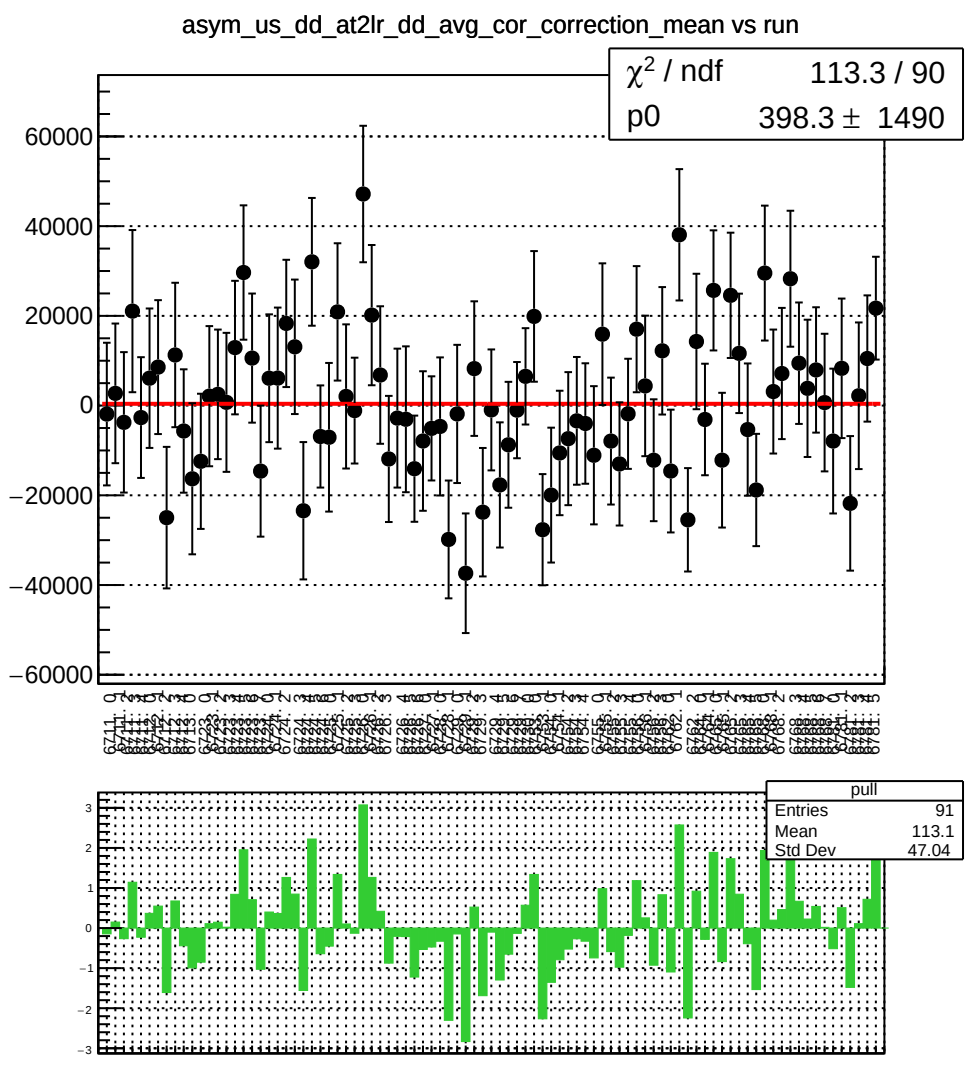

pull1D
Entries 91
Mean 0.02237
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

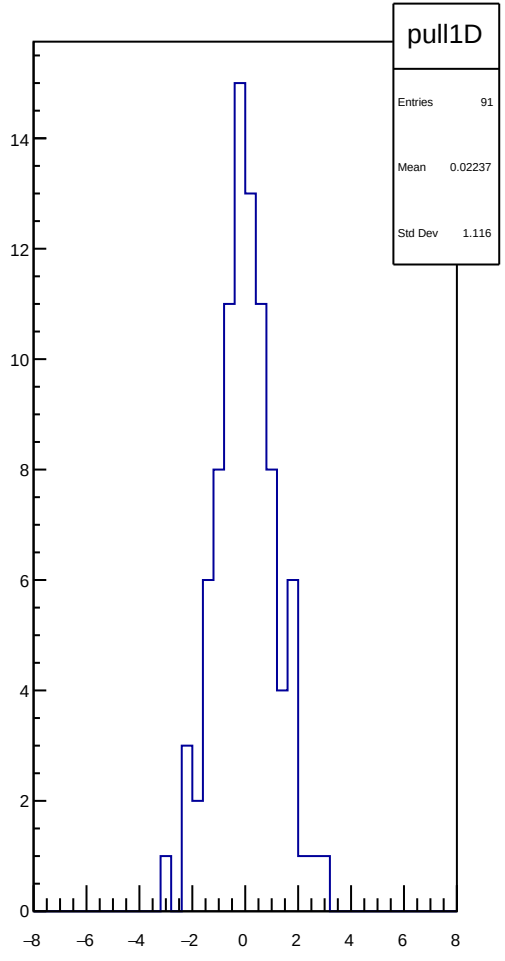

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ^2 / ndf 6172 / 90
p0 1413 ± 1.054
1700
1600
1500
1400
1300

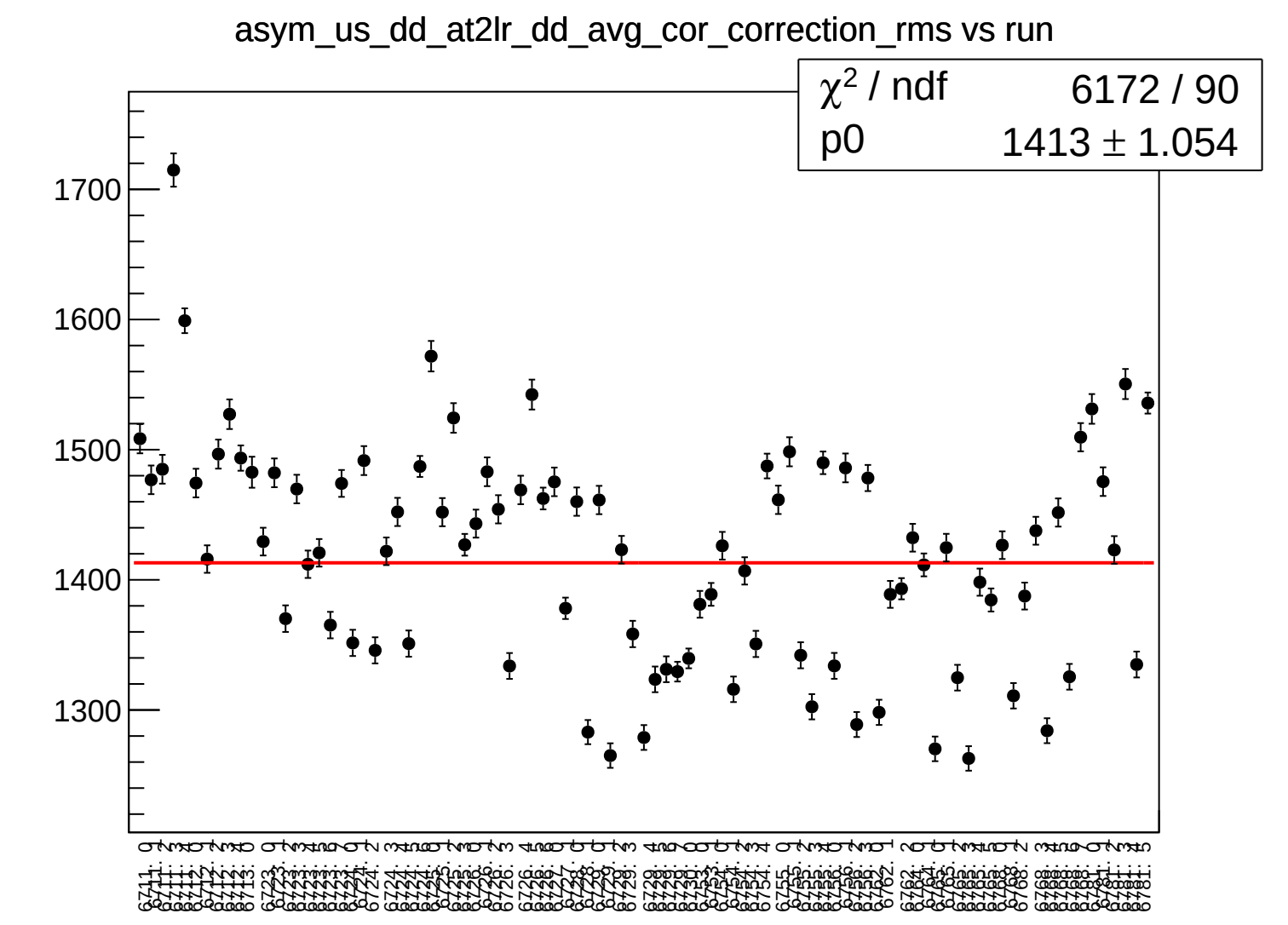

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 105.6 / 90
p0 1721 ± 2293
pull
Entries 91
Mean −149.5
Std Dev 0

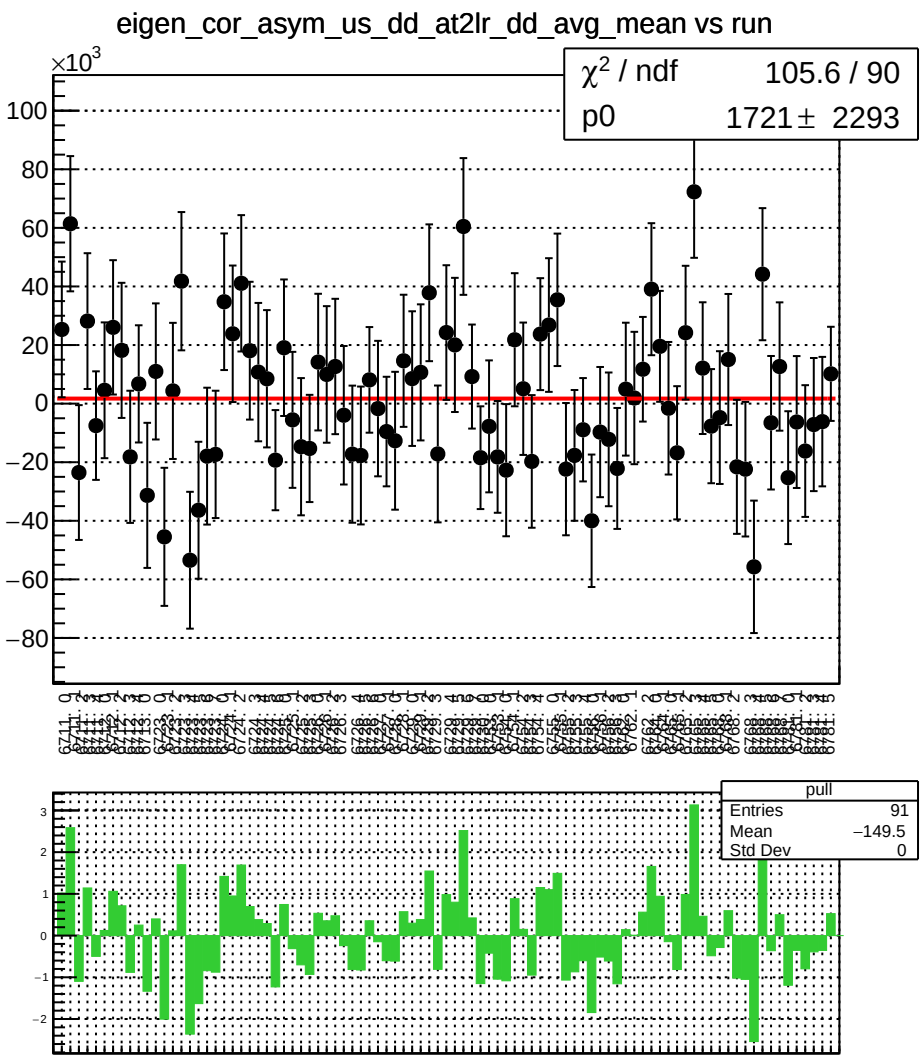

pull1D
Entries 91
Mean 0.009209
Std Dev 1.077

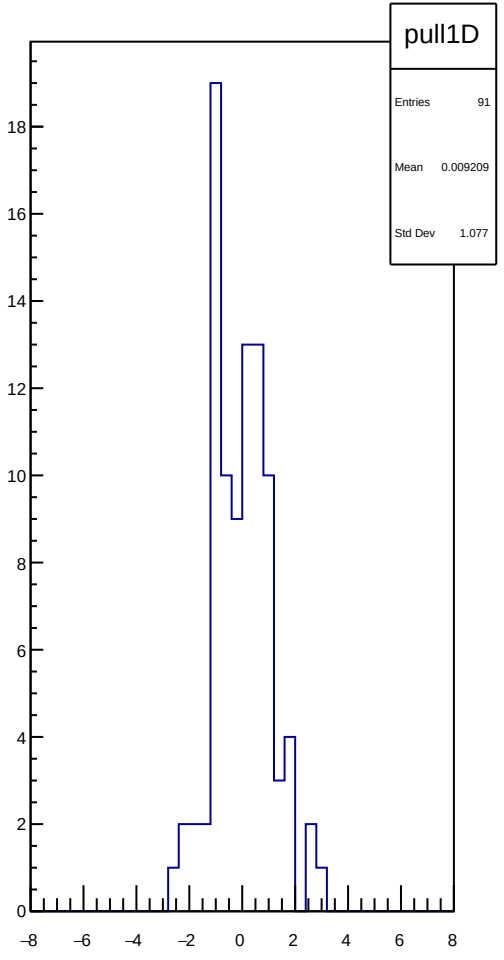

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 489 / 90
p0 2178 ± 1.622
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080

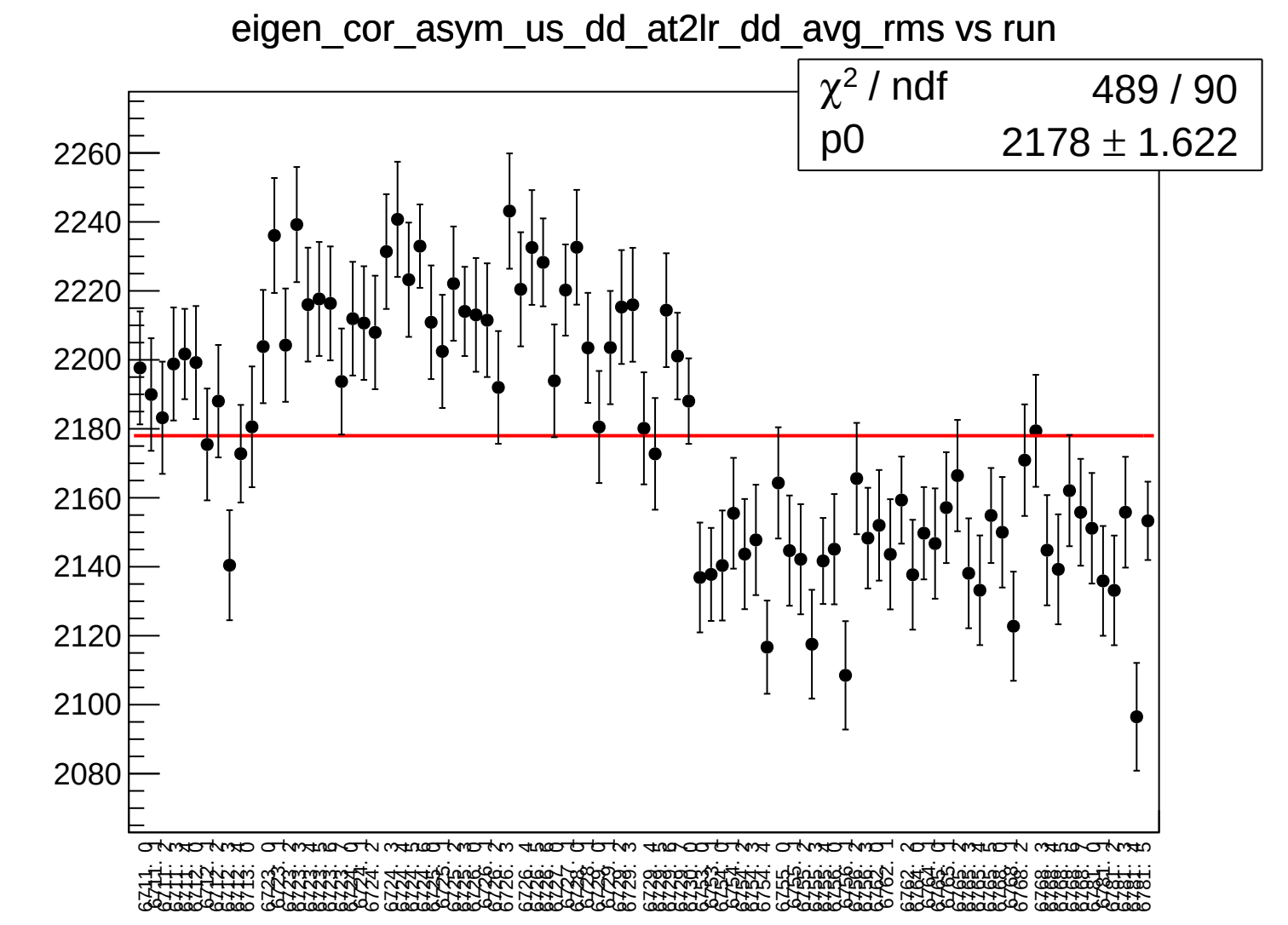

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 113.3 / 90
p0 398.3 ± 1490
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 113.1
Std Dev 47.04
3
2
1
0
−1
−2
−3

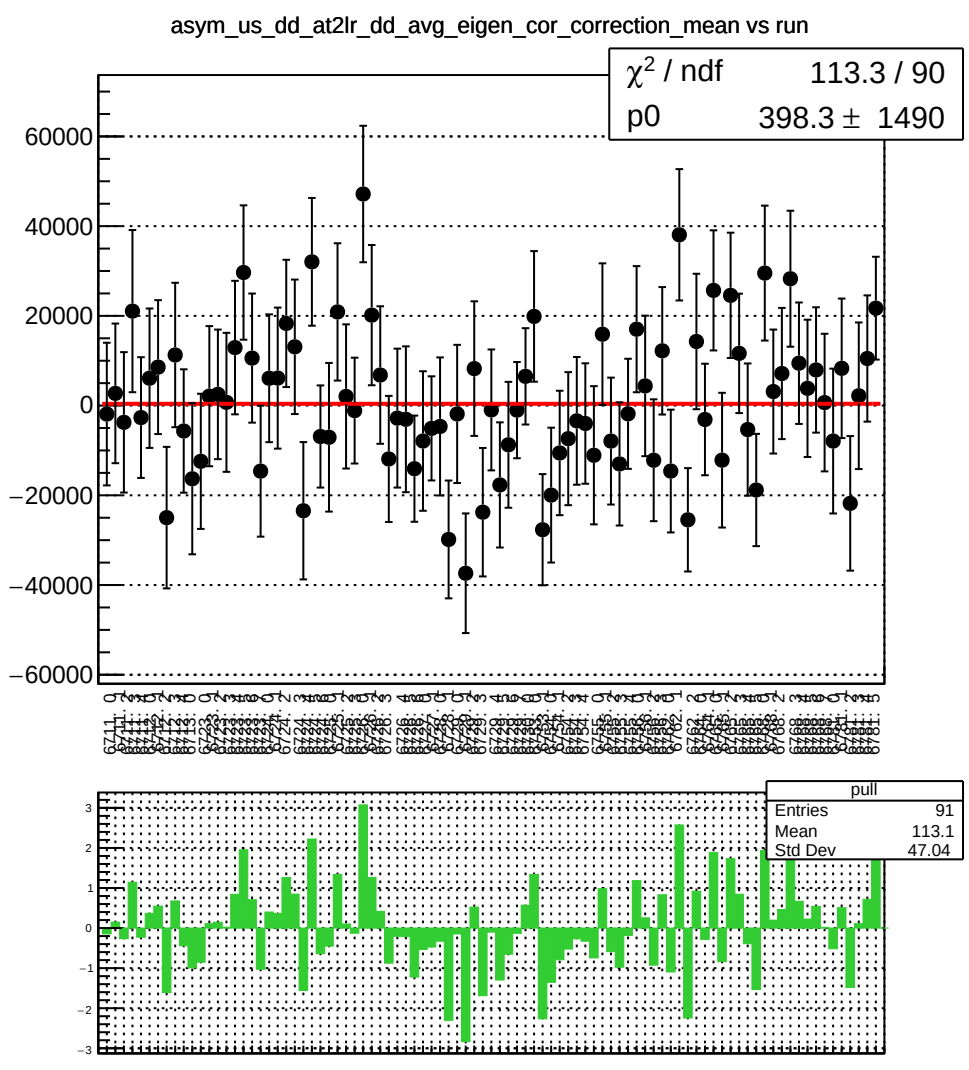

pull1D
Entries 91
Mean 0.02237
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

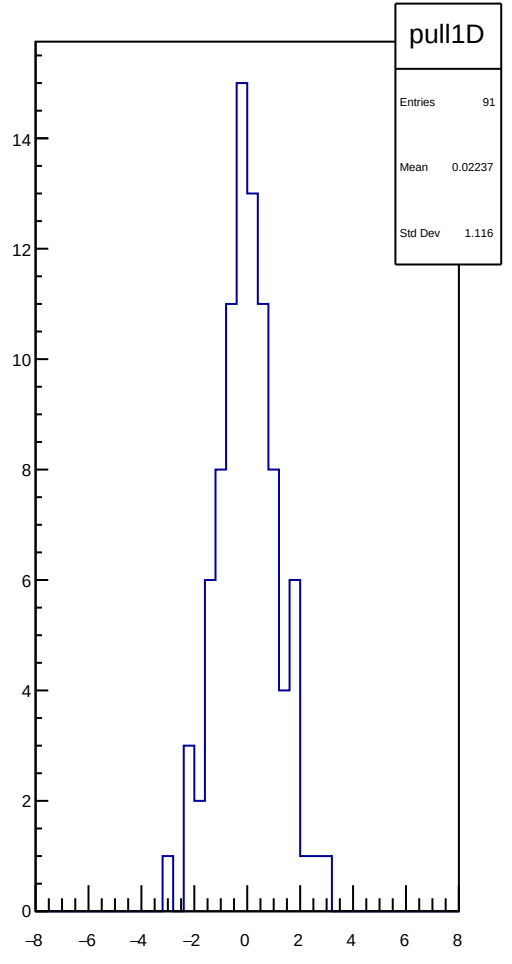

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 6172 / 90
p0 1413 ± 1.054
1700
1600
1500
1400
1300

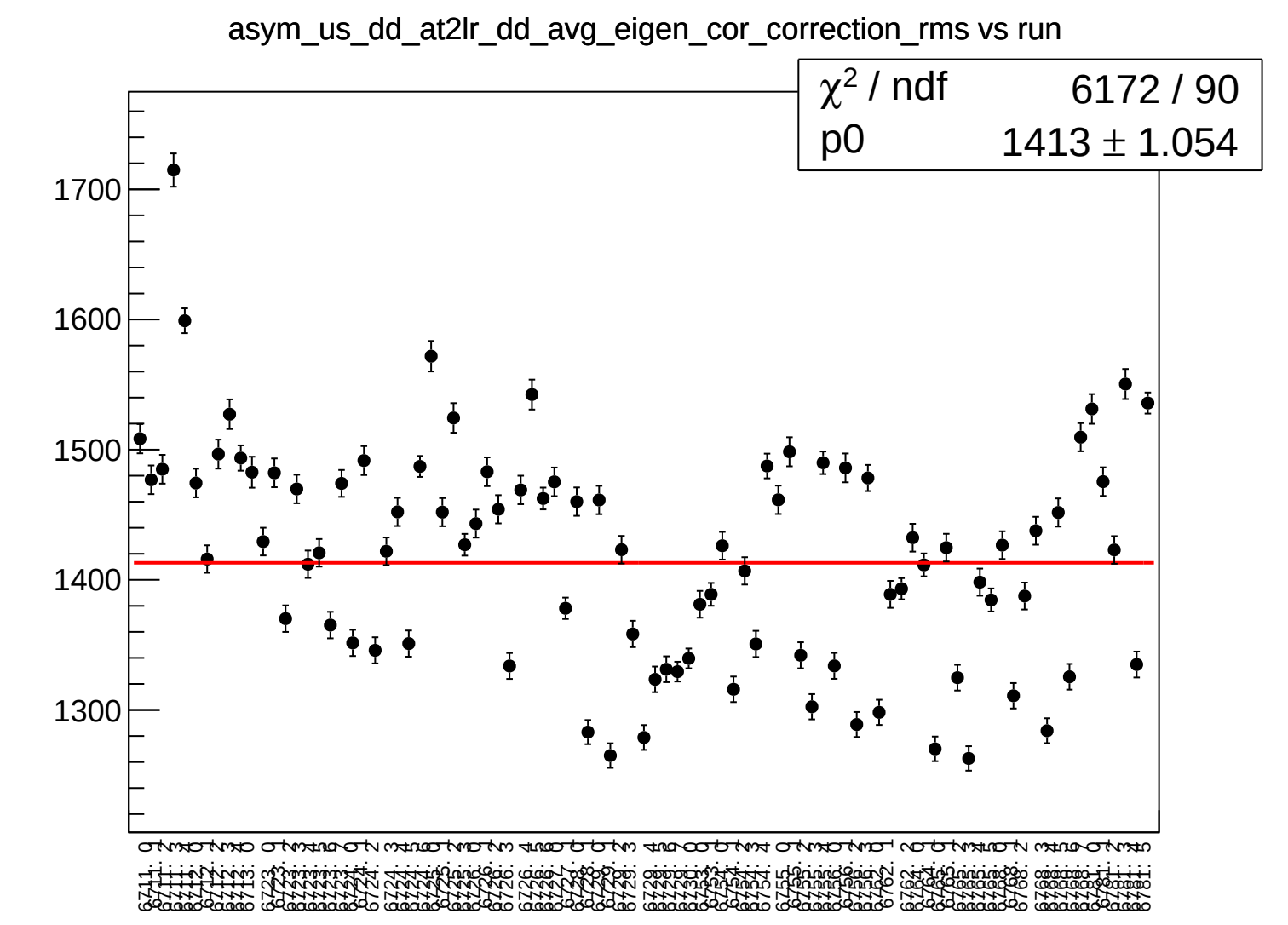

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 105.6 / 90
p0 1721 ± 2293
×10³
pull
Entries 91
Mean −149.5
Std Dev 0

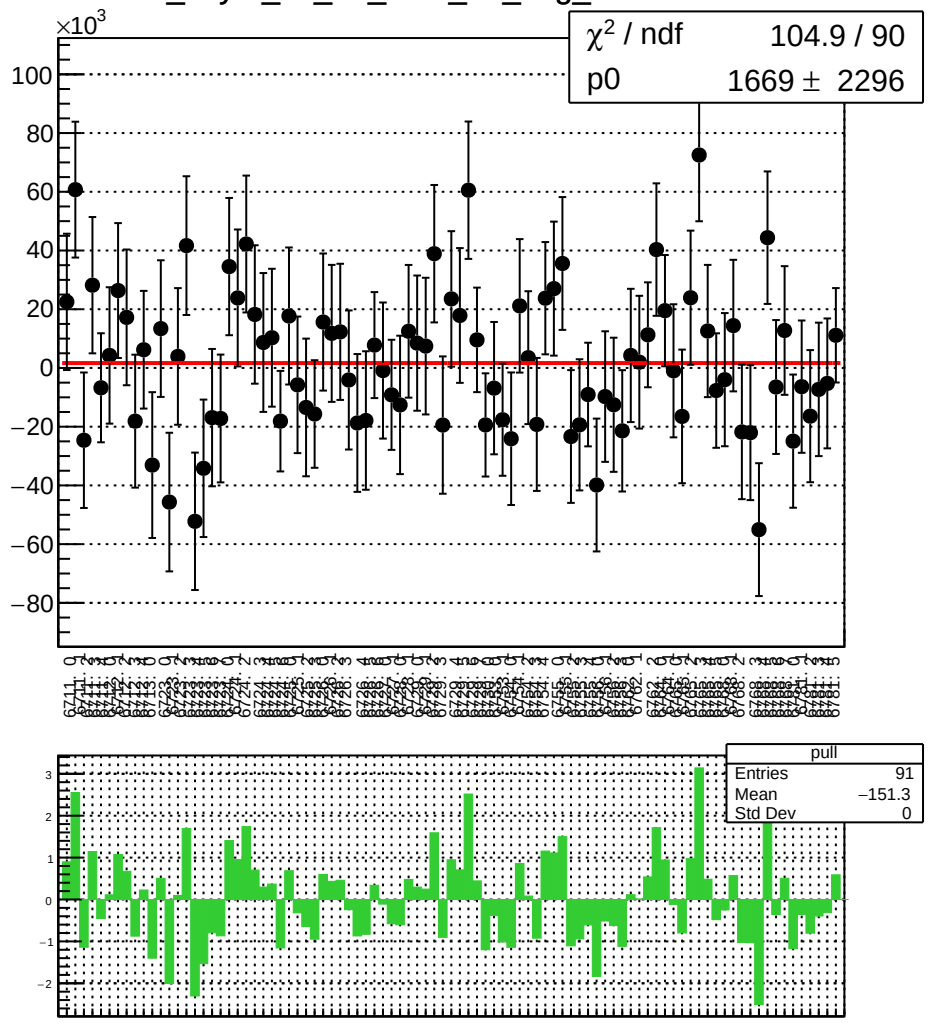

pull1D
Entries 91
Mean 0.009209
Std Dev 1.077

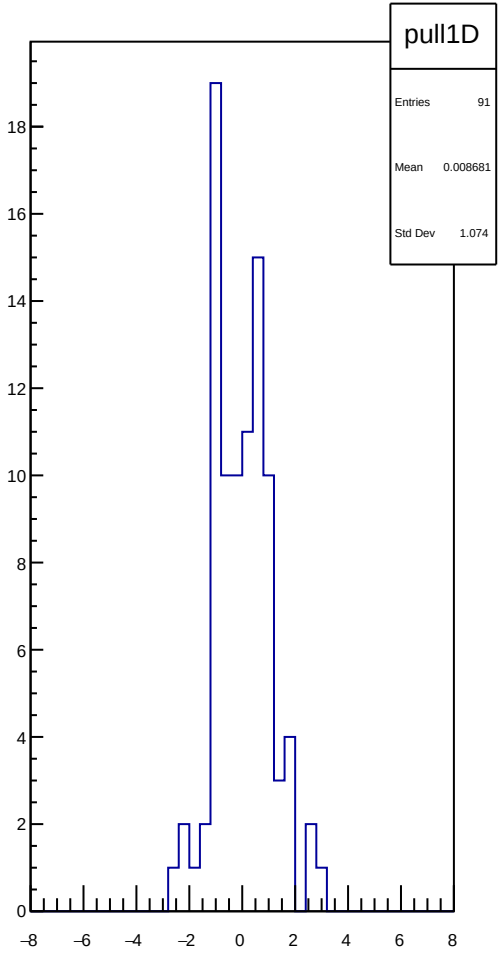

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 489 / 90
p0 2178 ± 1.622
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080

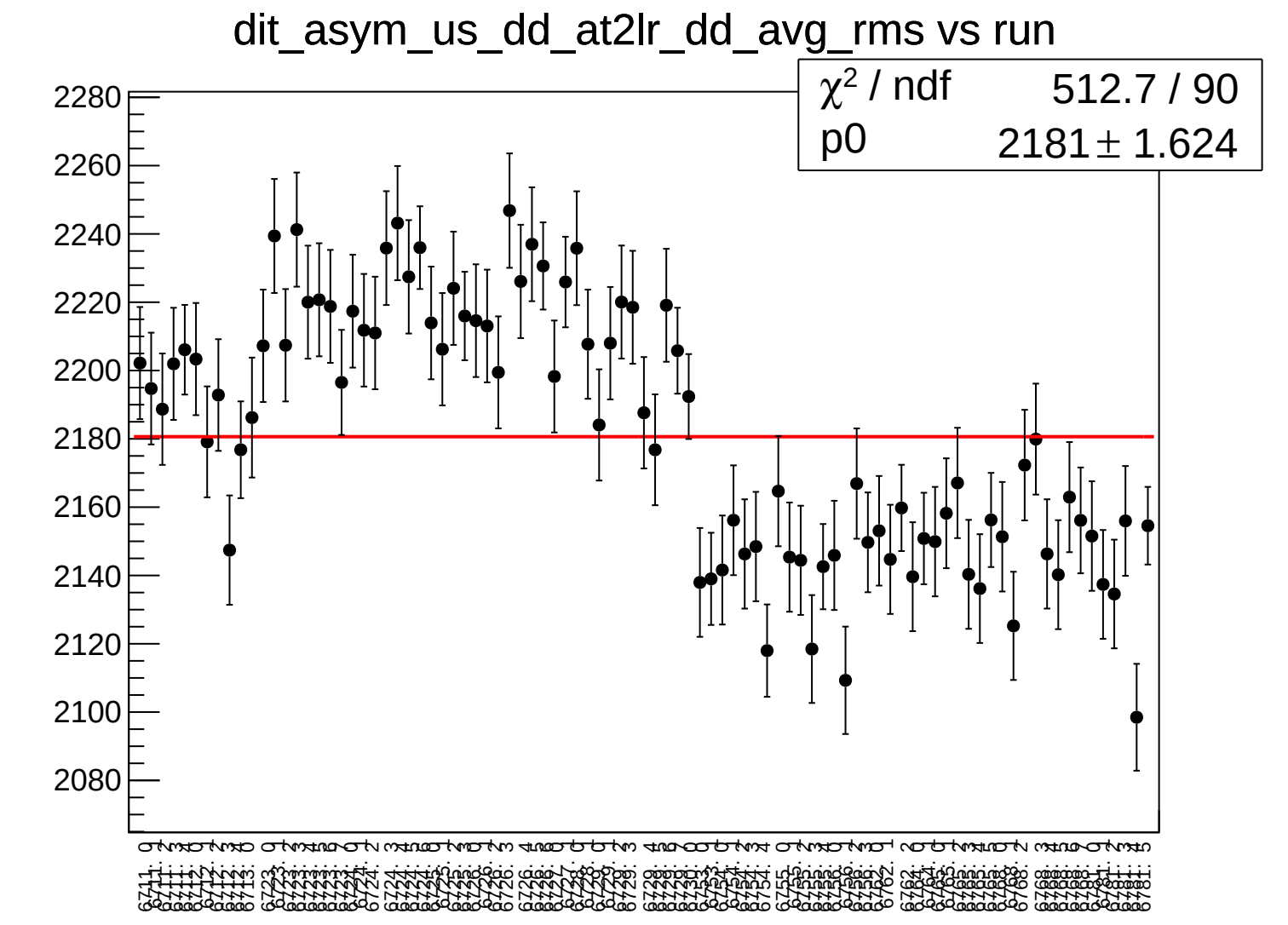

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 113.3 / 90
p0 398.3 ± 1490
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 113.1
Std Dev 47.04
3
2
1
0
−1
−2
−3

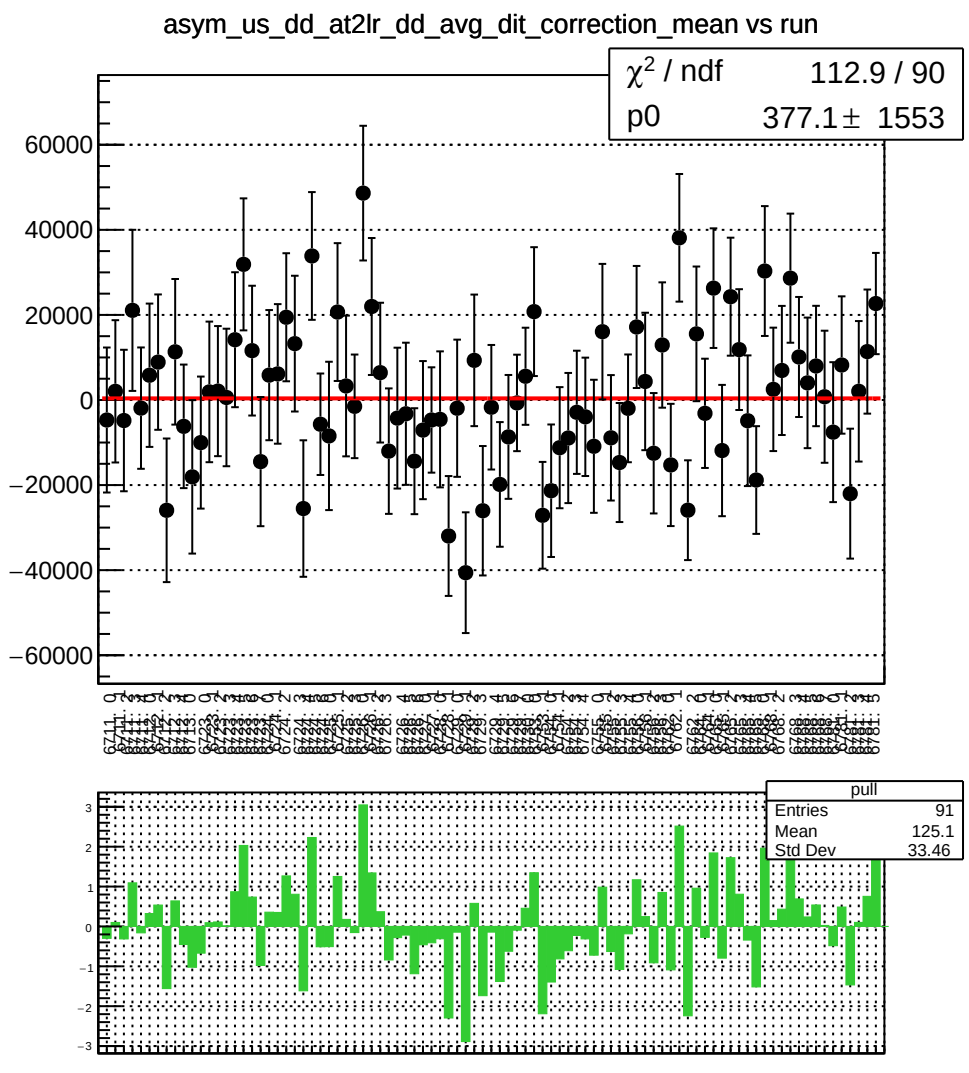

pull1D
Entries 91
Mean 0.02237
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

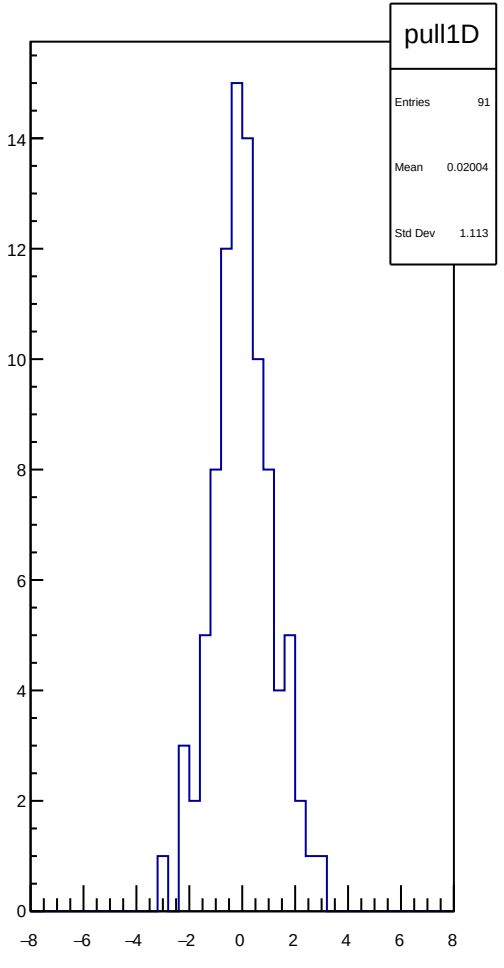

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6172 / 90
p0 1413 ± 1.054
1700
1600
1500
1400
1300

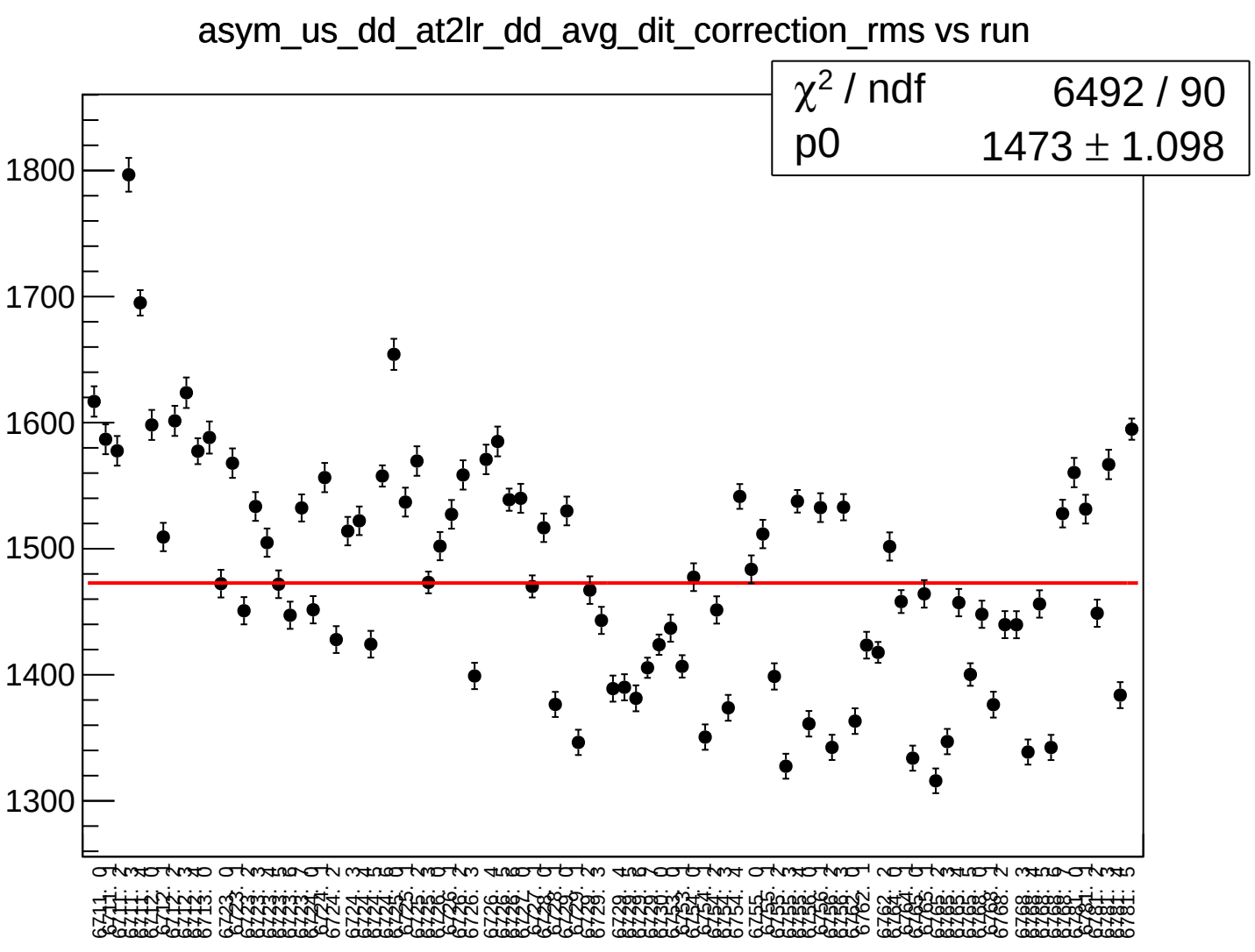

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 104.9 / 90
p0 1669 ± 2296
×10³
pull
Entries 91
Mean −151.3
Std Dev 0

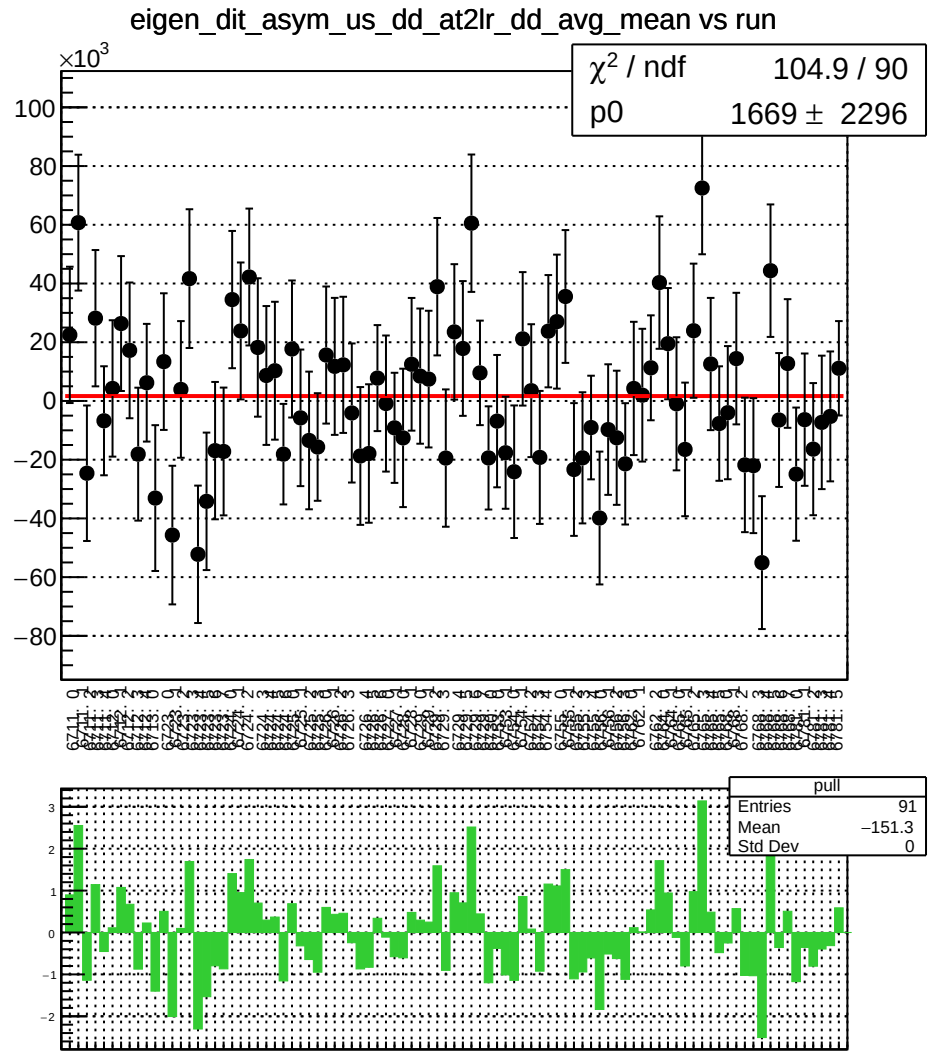

pull1D
Entries 91
Mean 0.008681
Std Dev 1.074

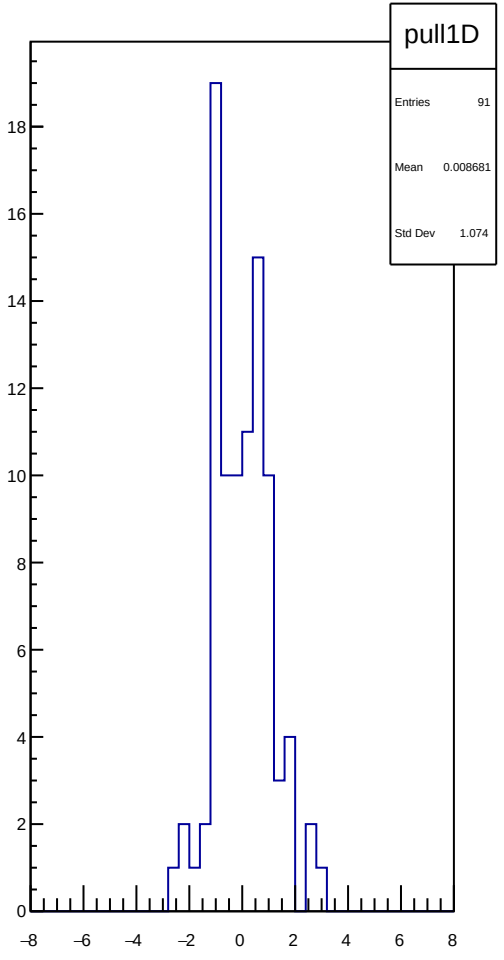

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 512.7 / 90
p0 2181 ± 1.624
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080

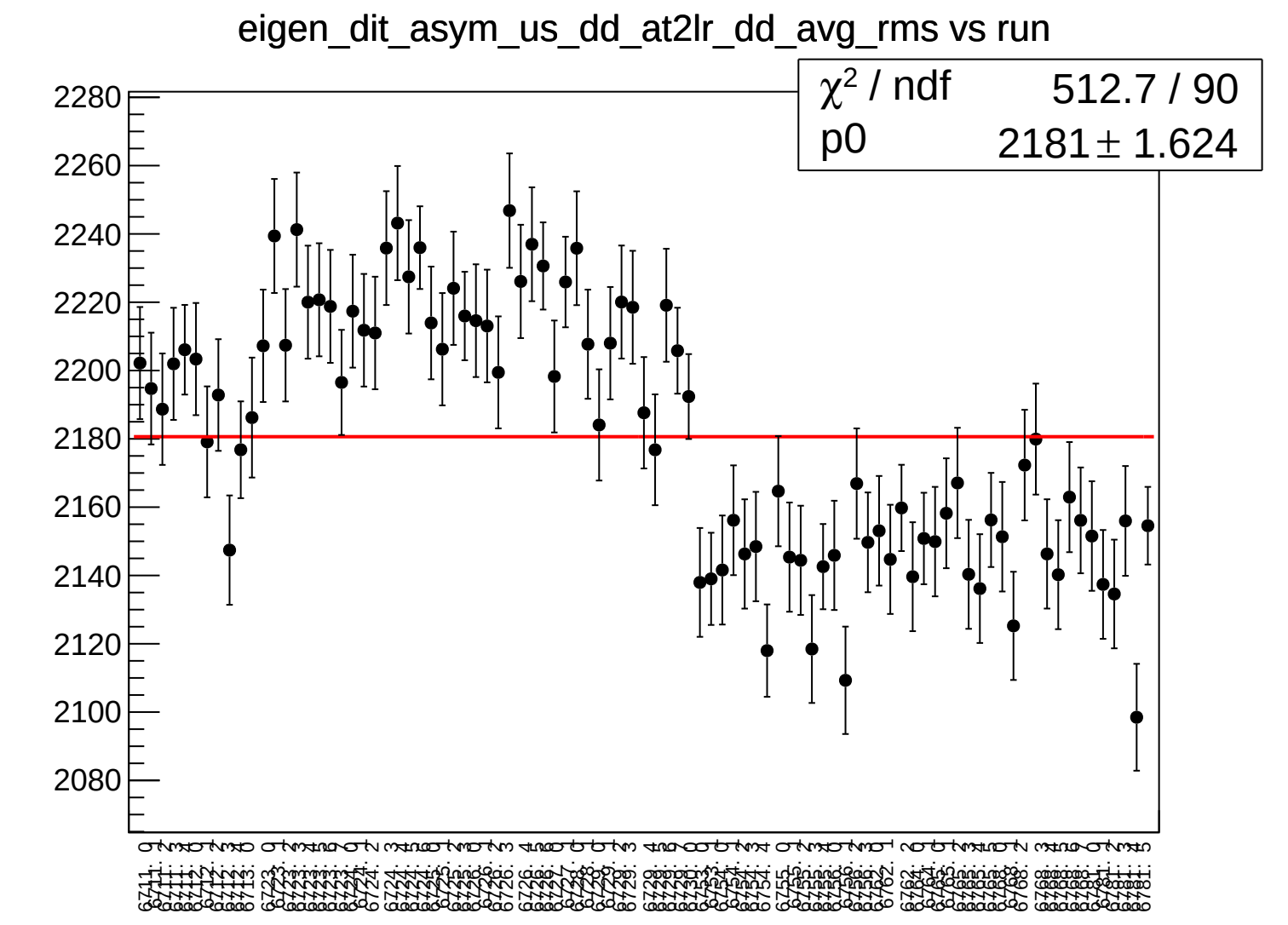

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 112.9 / 90
p0 377.1 ± 1553
pull
Entries 91
Mean 125.1
Std Dev 33.46

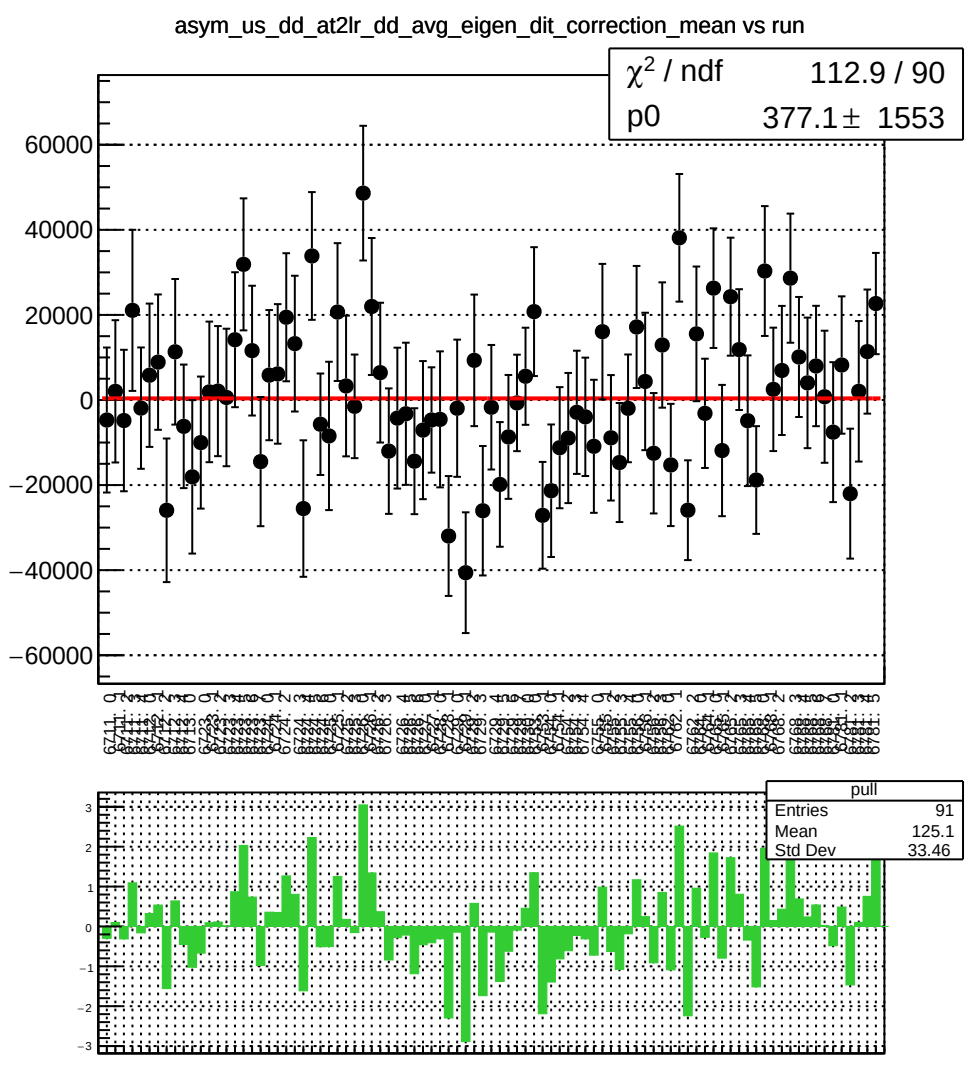

pull1D
Entries 91
Mean 0.02004
Std Dev 1.113

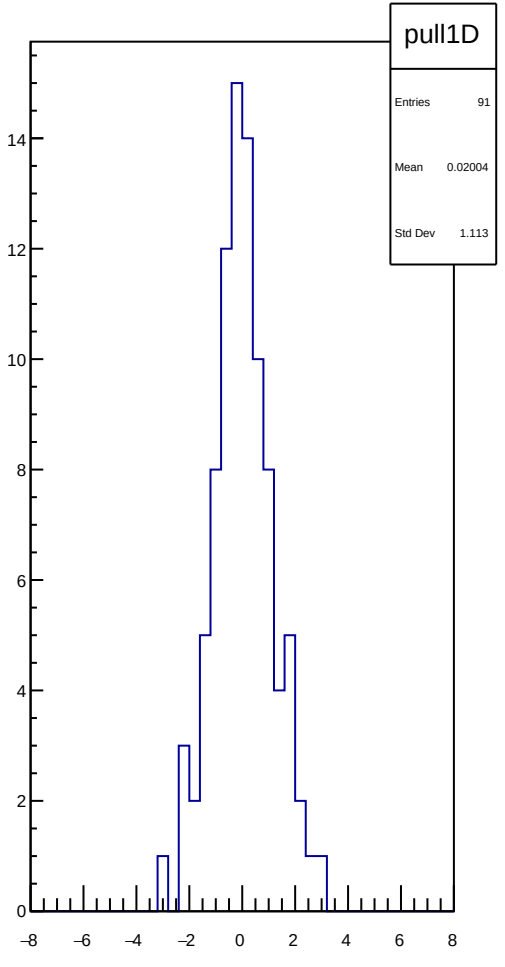

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 6492 / 90
p0 1473 ± 1.098
1800
1700
1600
1500
1400
1300

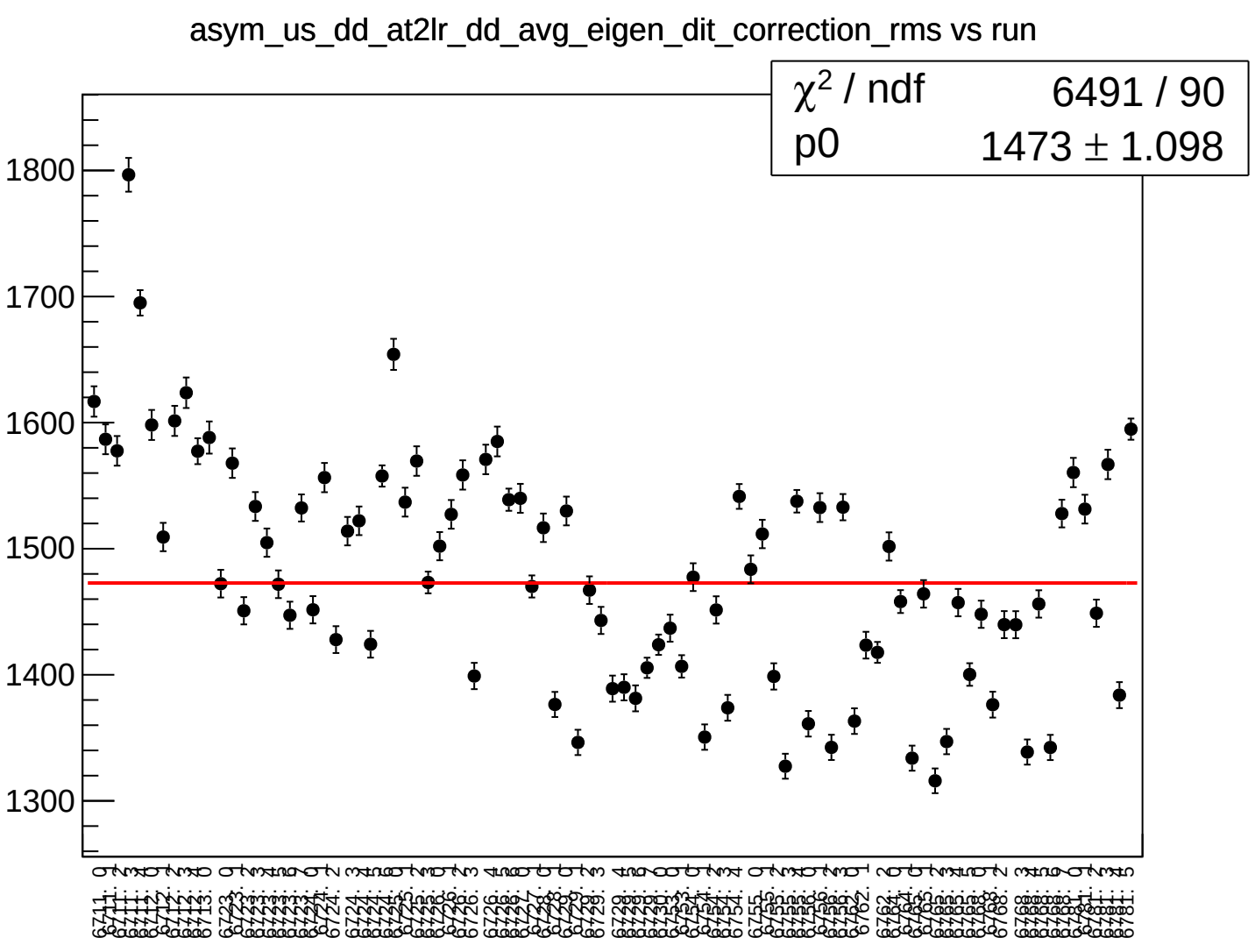

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 104.9 / 90
p0 1669 ± 2296
×10³
pull
Entries 91
Mean −151.3
Std Dev 0

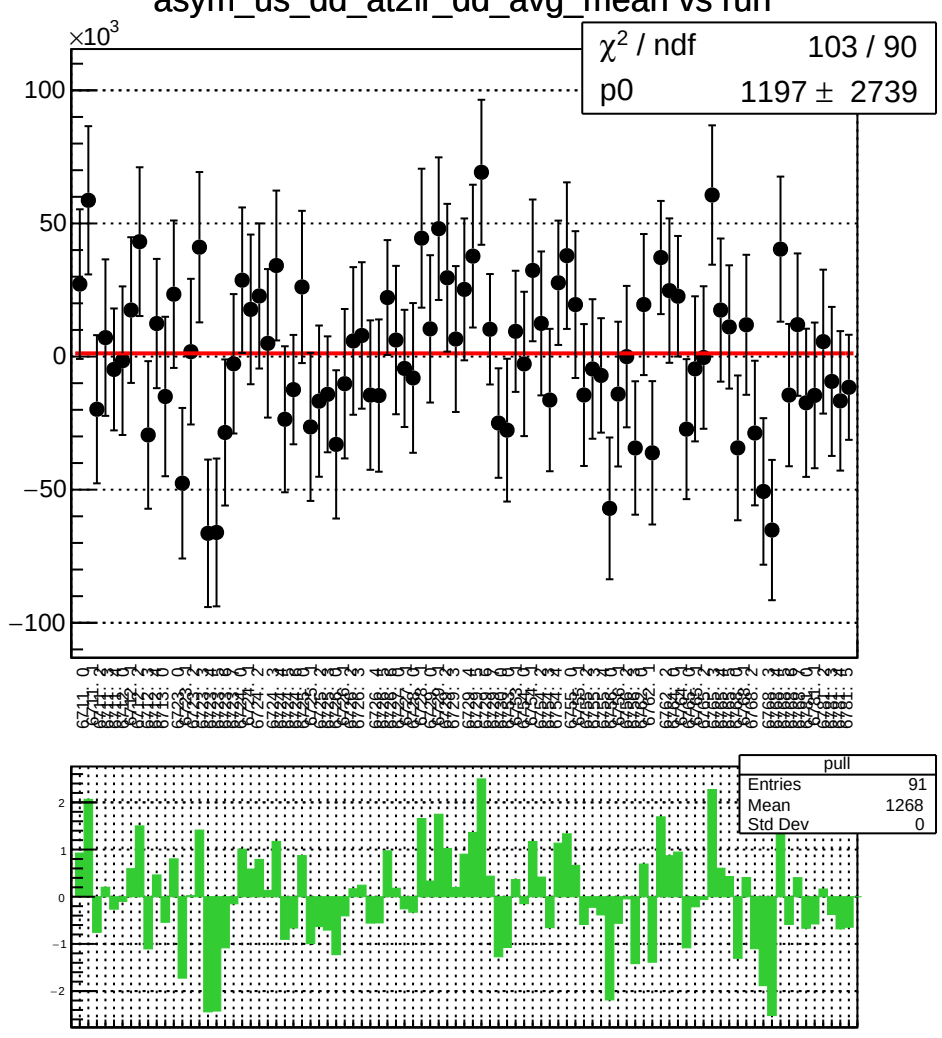

pull1D
Entries 91
Mean 0.008681
Std Dev 1.074

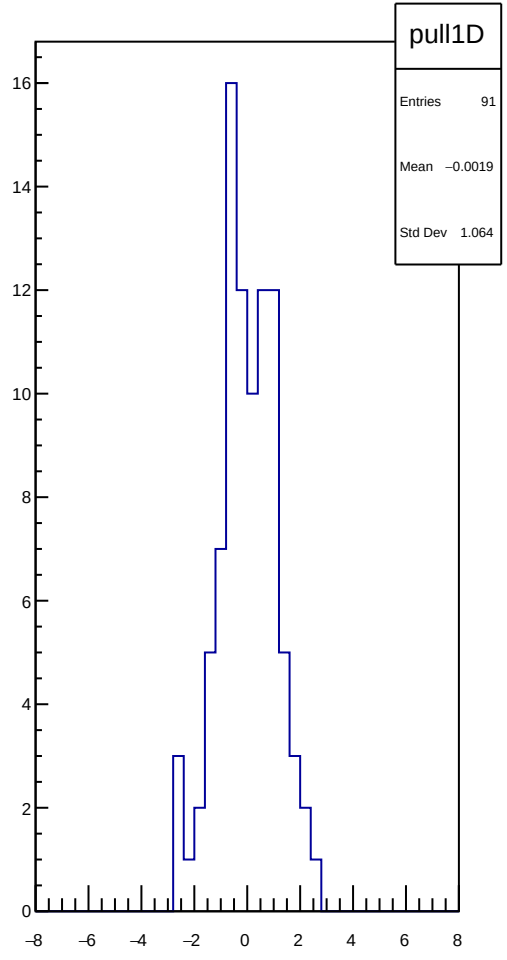

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 512.7 / 90
p0 2181 ± 1.624
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080

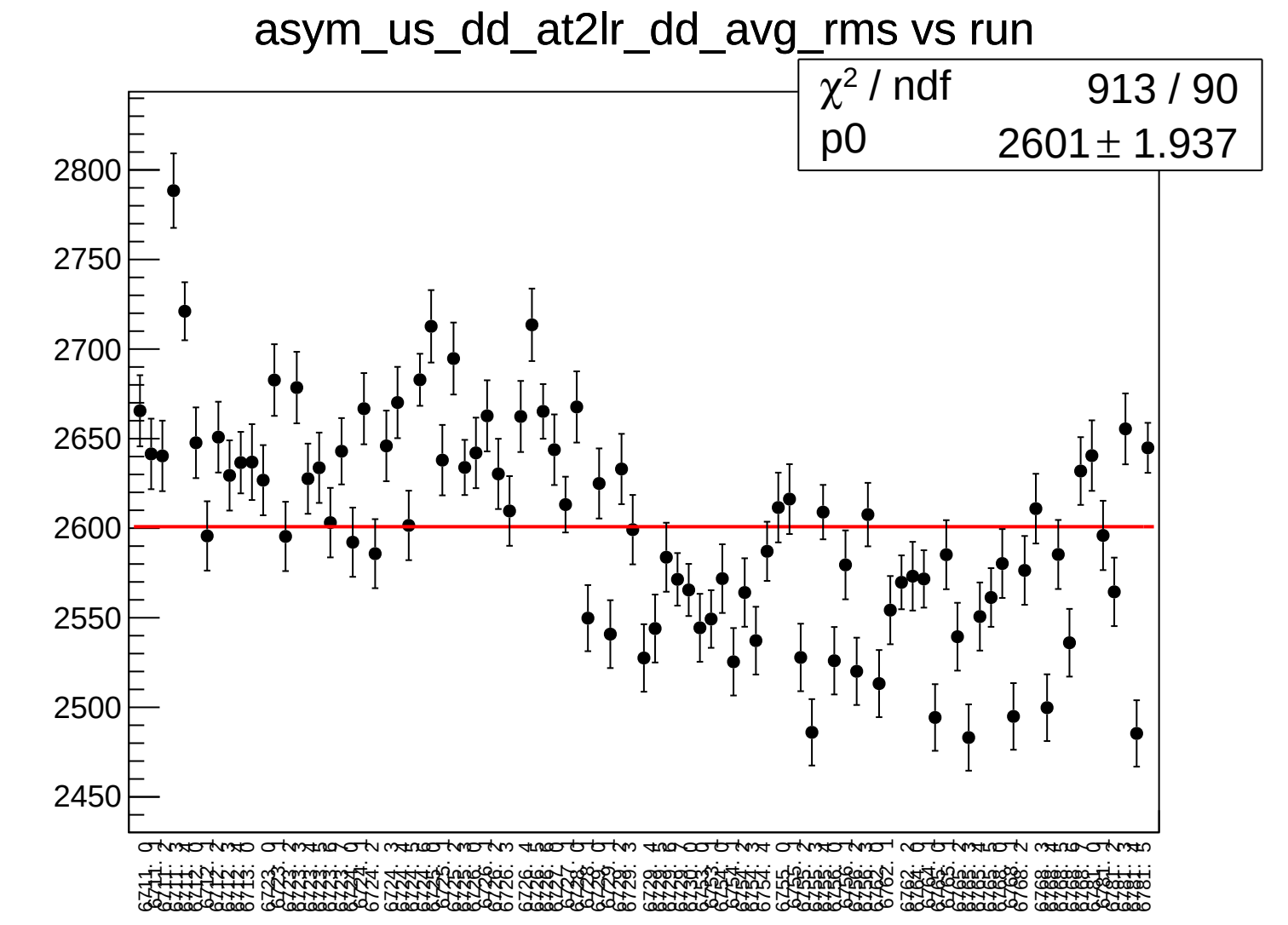

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 112.9 / 90
p0 377.1± 1553
pull
Entries 91
Mean 125.1
Std Dev 33.46

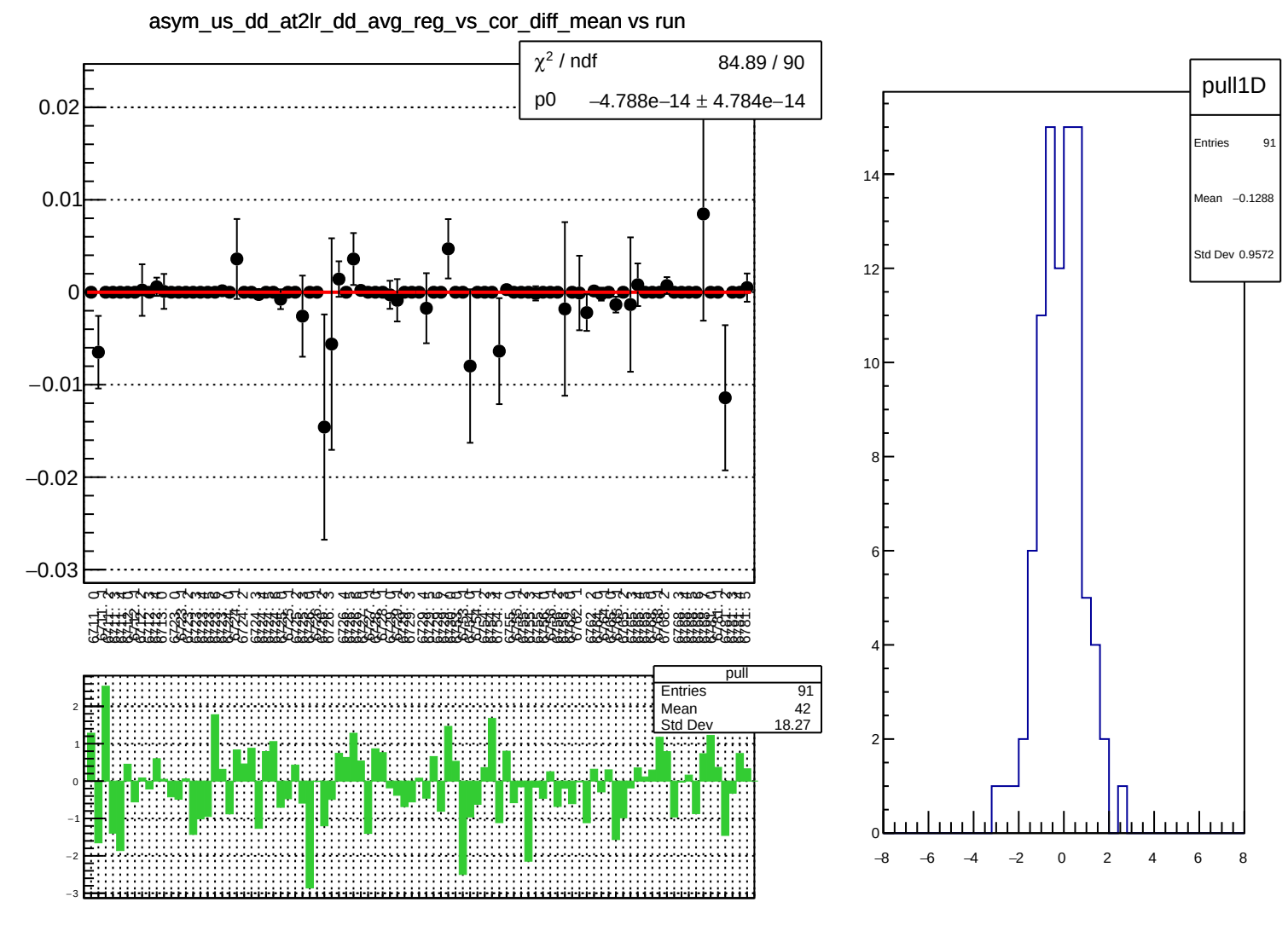

pull1D
Entries 91
Mean 0.02004
Std Dev 1.113

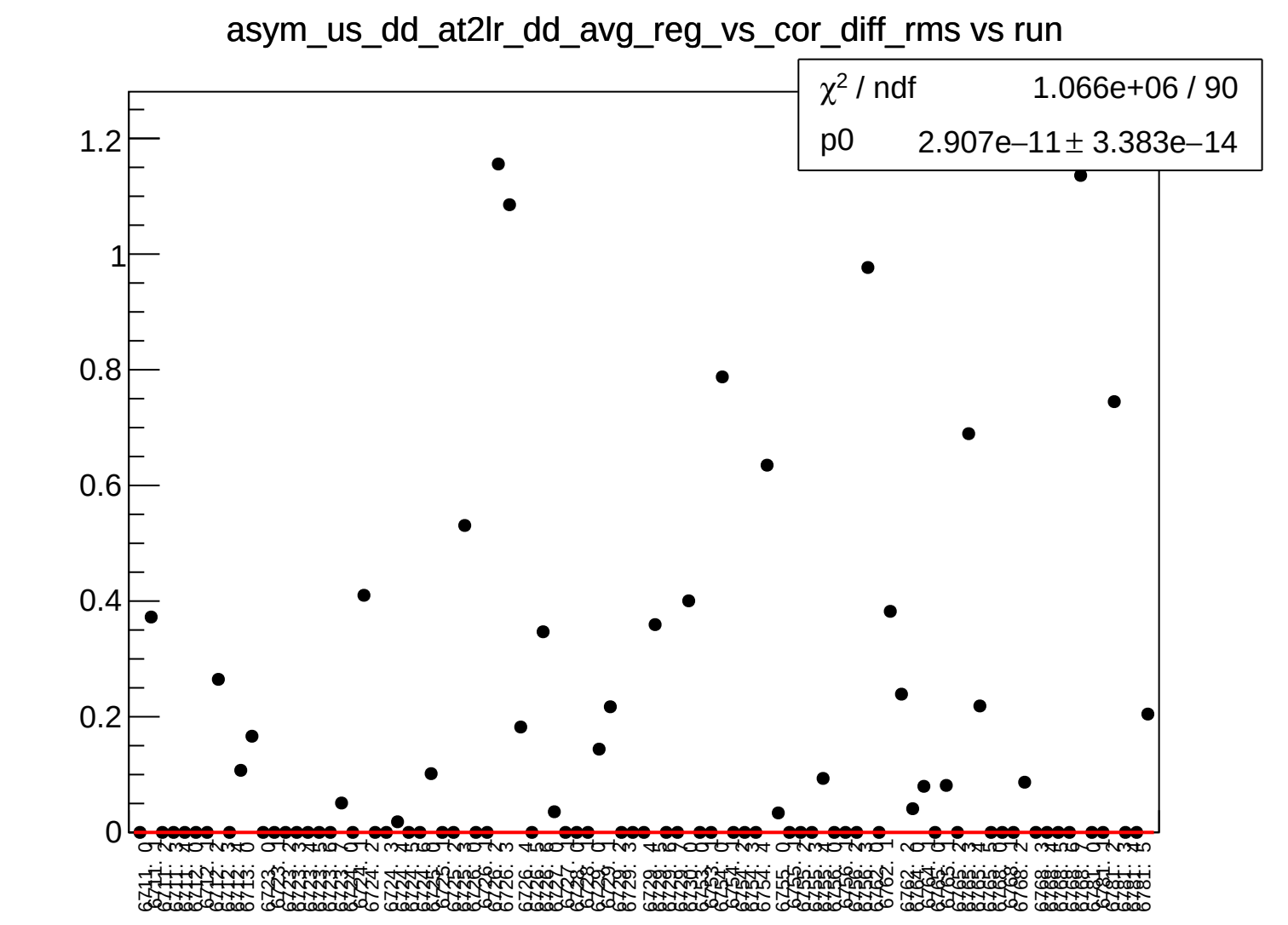

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 6491 / 90
p0 1473 ± 1.098
1800
1700
1600
1500
1400
1300

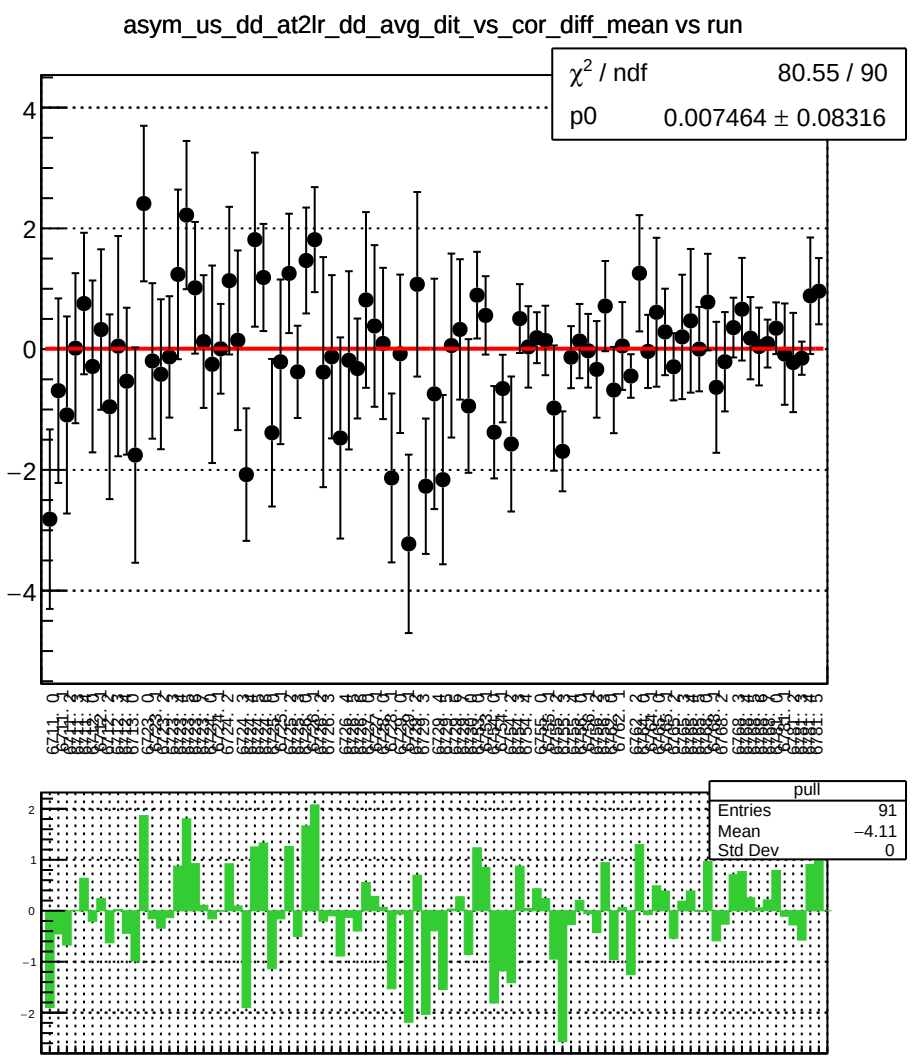

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 103 / 90
p0 1197 ± 2739
100
50
0
−50
−100
pull
Entries 91
Mean 1268
Std Dev 0
2
1
0
−1
−2

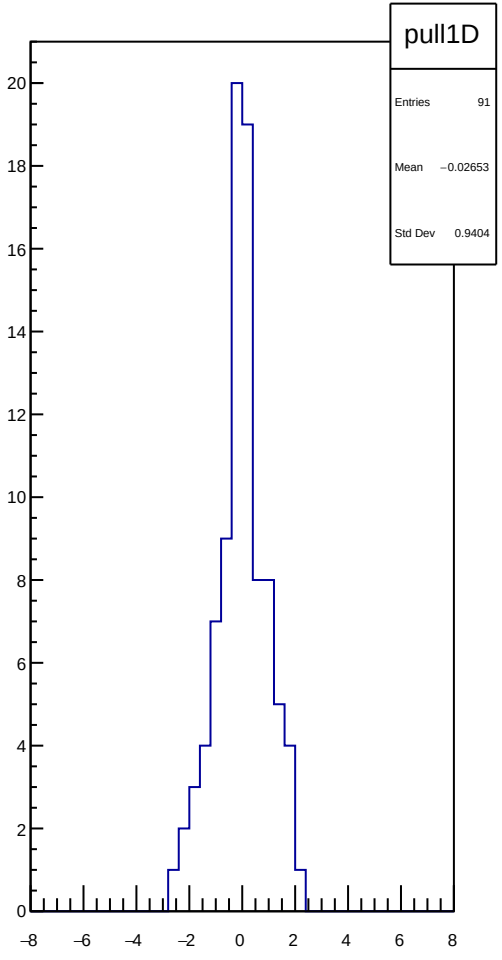

pull1D
Entries 91
Mean −0.0019
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

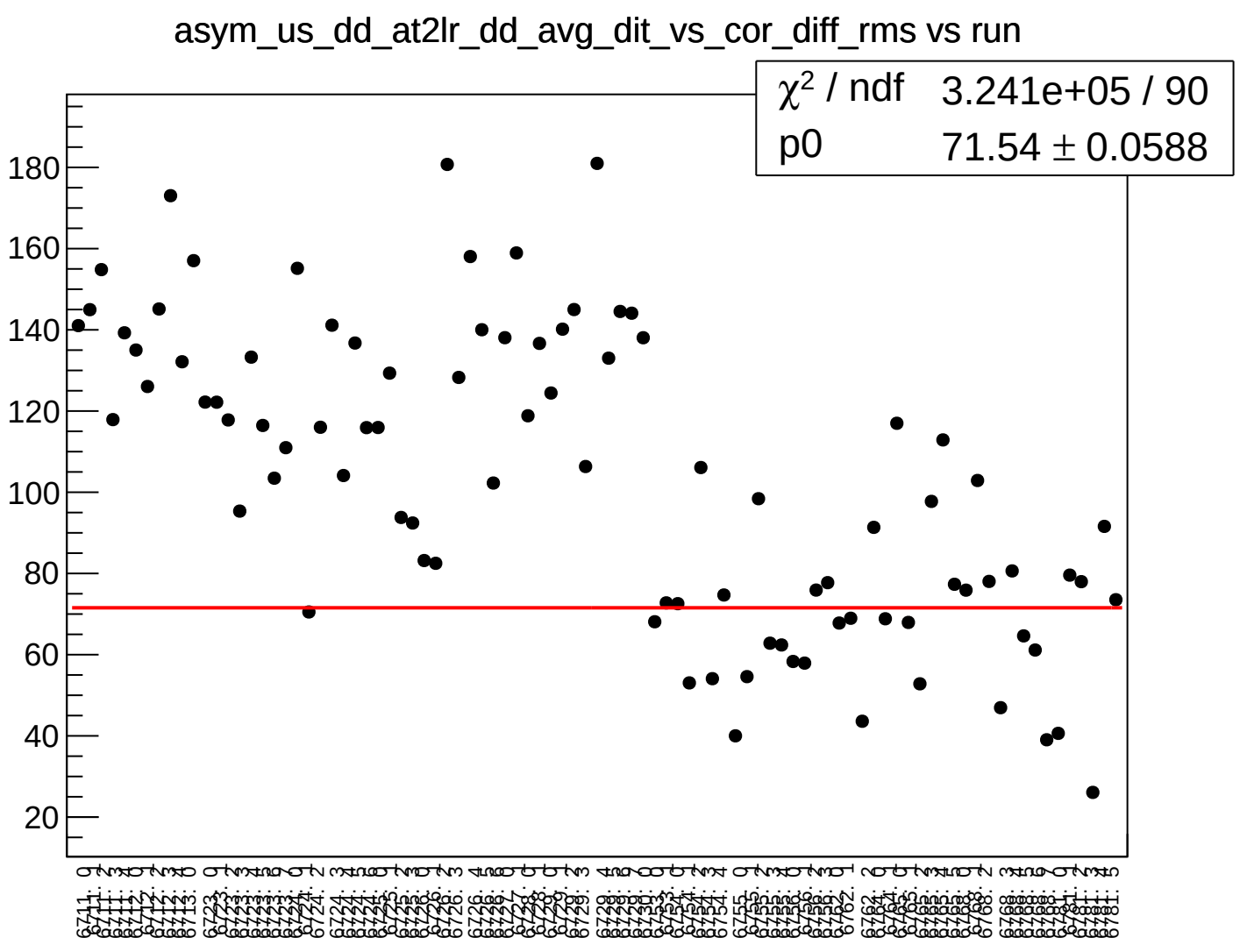

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 913 / 90
p0 2601 ± 1.937
2800
2750
2700
2650
2600
2550
2500
2450

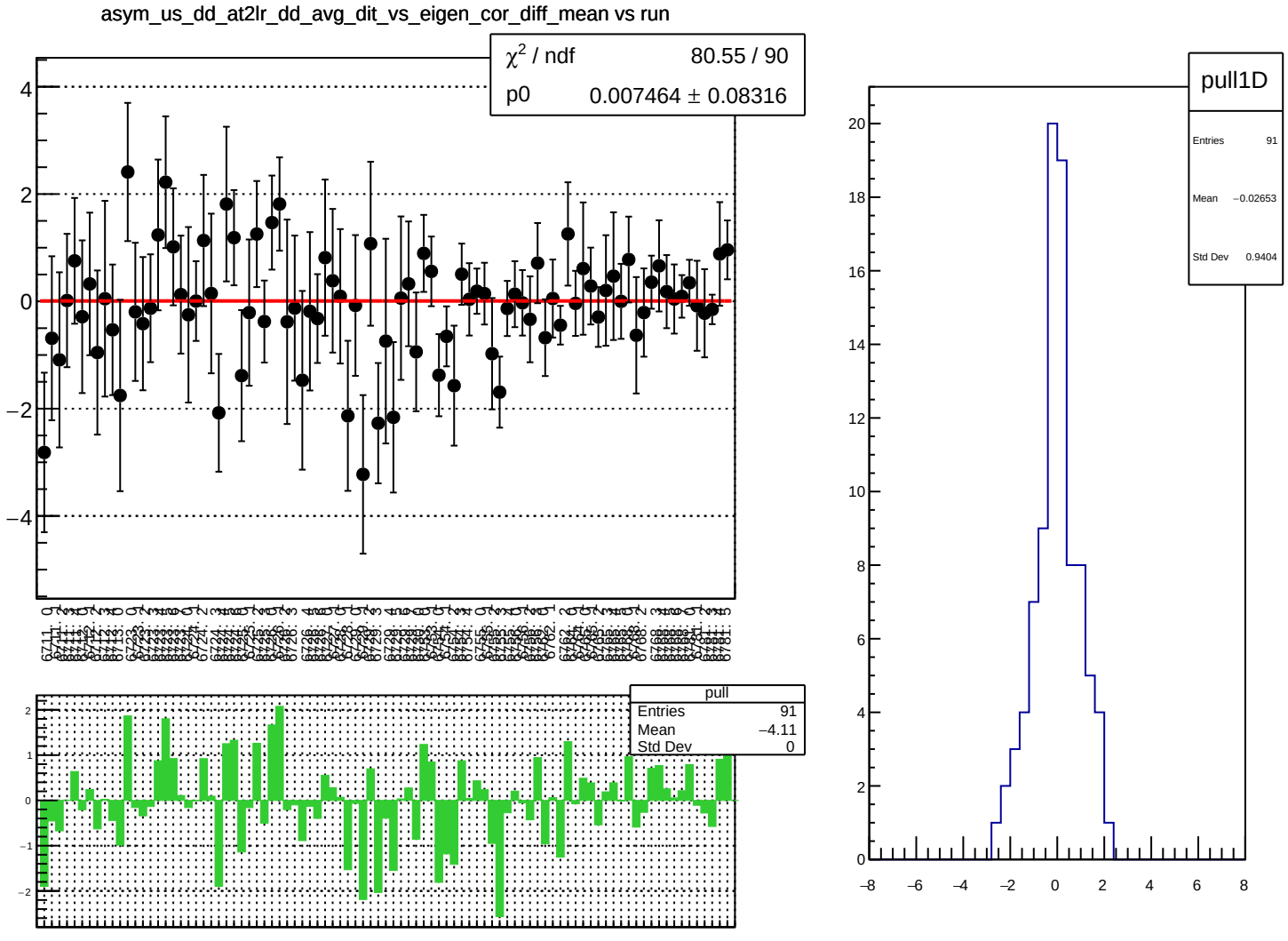

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.89 / 90
p0 −4.788e−14 ± 4.784e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 91
Mean 42
Std Dev 18.27
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.1288
Std Dev 0.9572
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

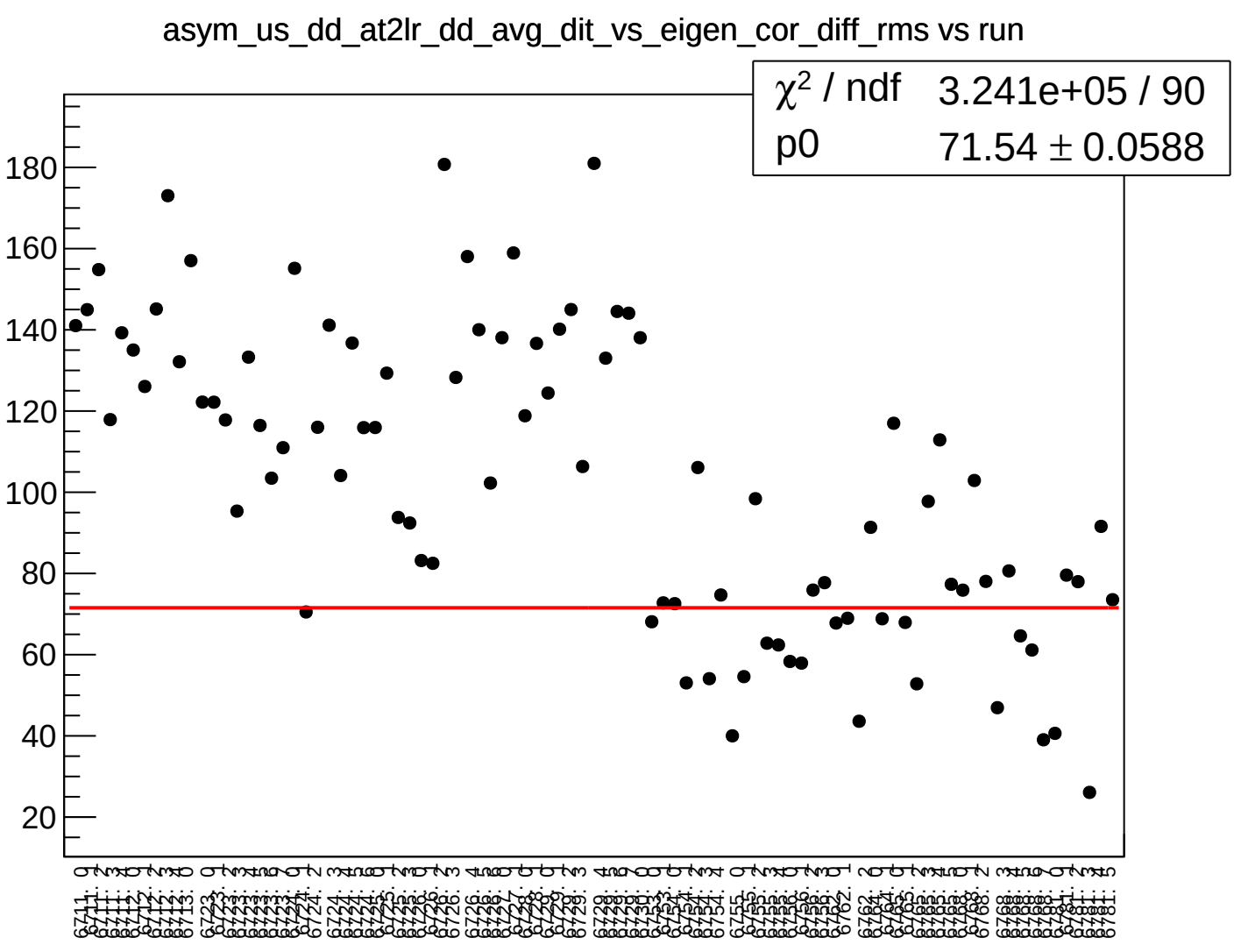

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.066e+06 / 90
p0 2.907e−11 ± 3.383e−14
1.2
1
0.8
0.6
0.4
0.2
0

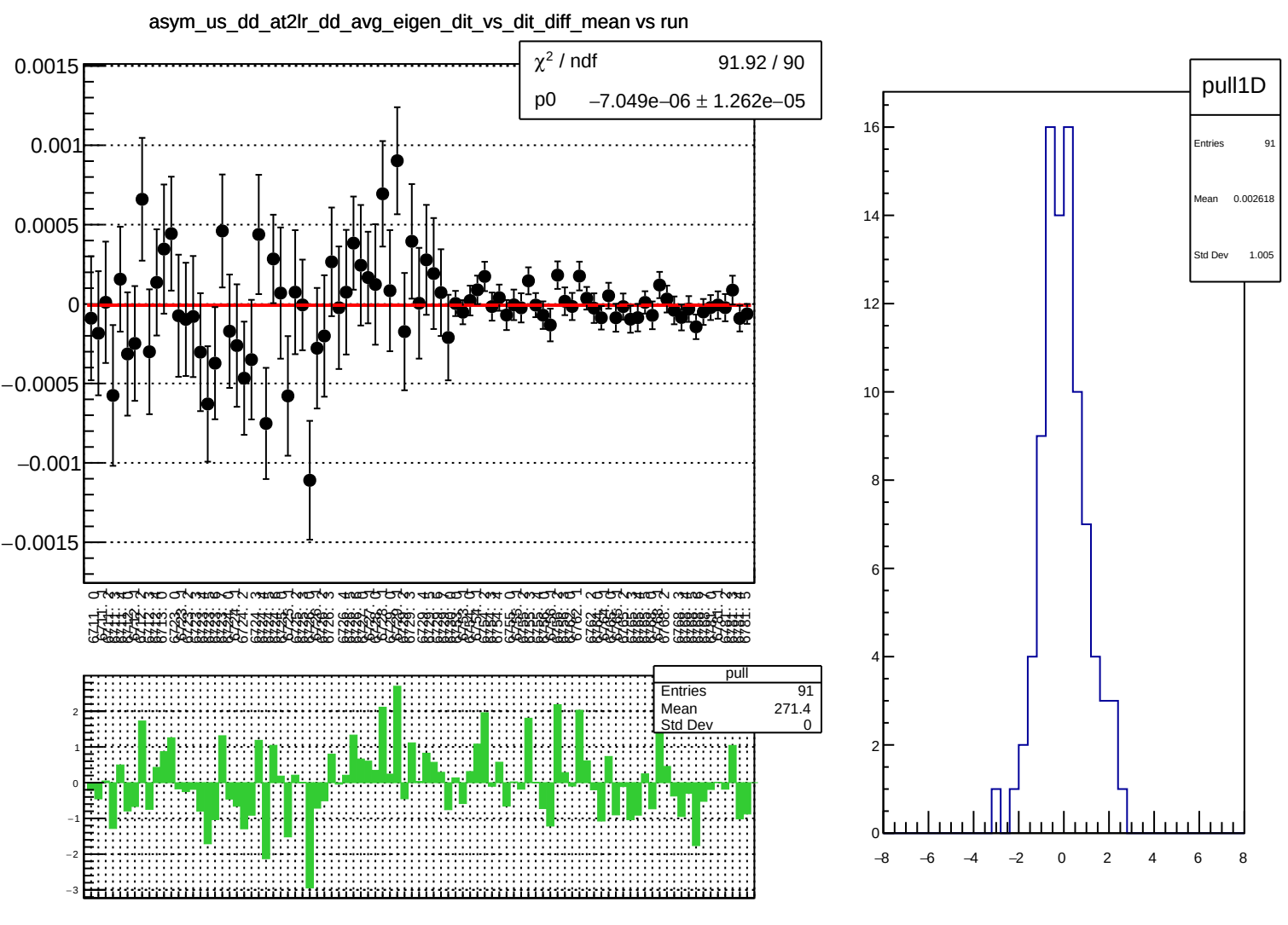

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.55 / 90
p0 0.007464 ± 0.08316
pull
Entries 91
Mean −4.11
Std Dev 0

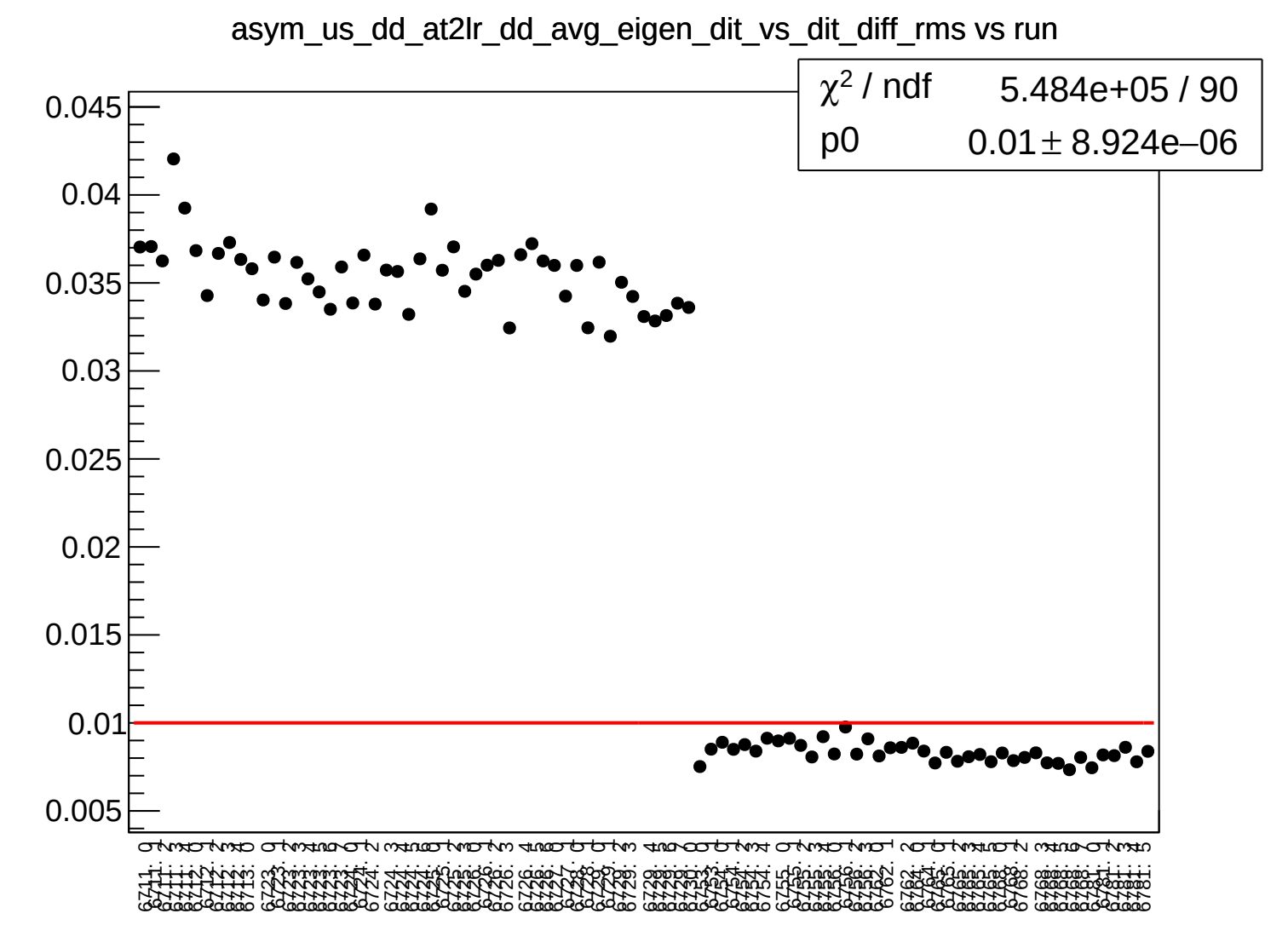

pull1D
Entries 91
Mean −0.02653
Std Dev 0.9404

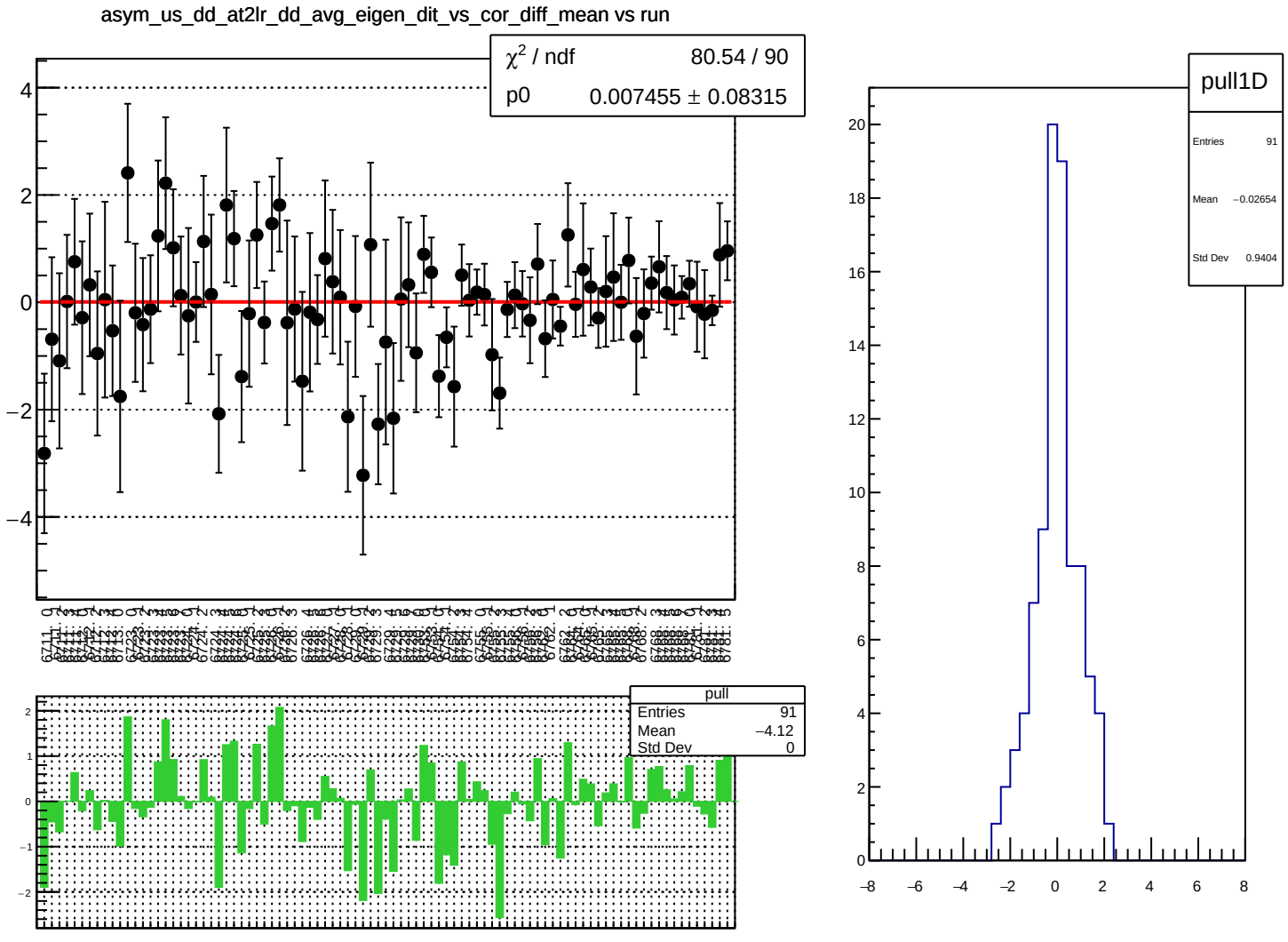

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.241e+05 / 90
p0 71.54 ± 0.0588
180
160
140
120
100
80
60
40
20

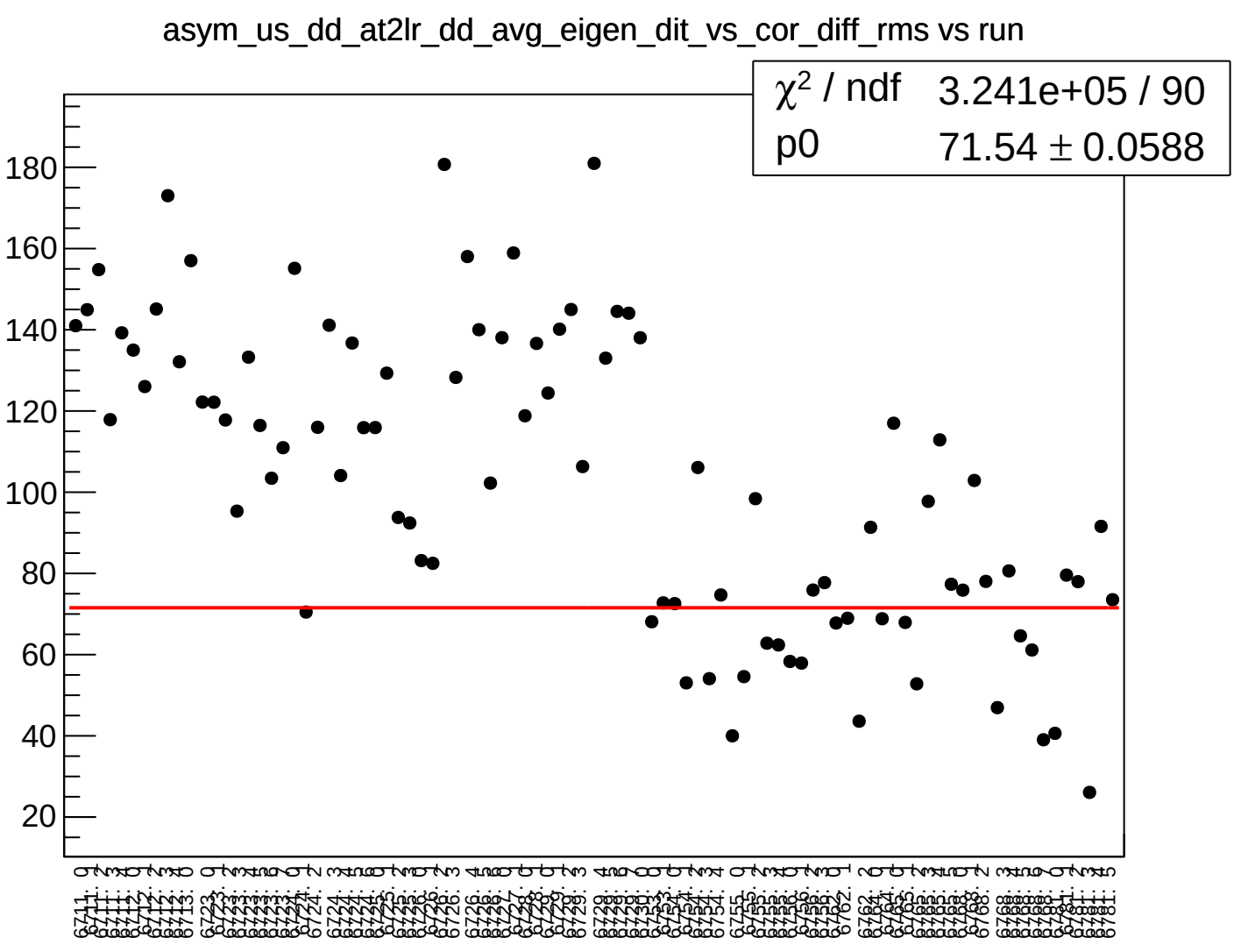

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.55 / 90
p0 0.007464 ± 0.08316
pull
Entries 91
Mean −4.11
Std Dev 0
pull1D
Entries 91
Mean −0.02653
Std Dev 0.9404

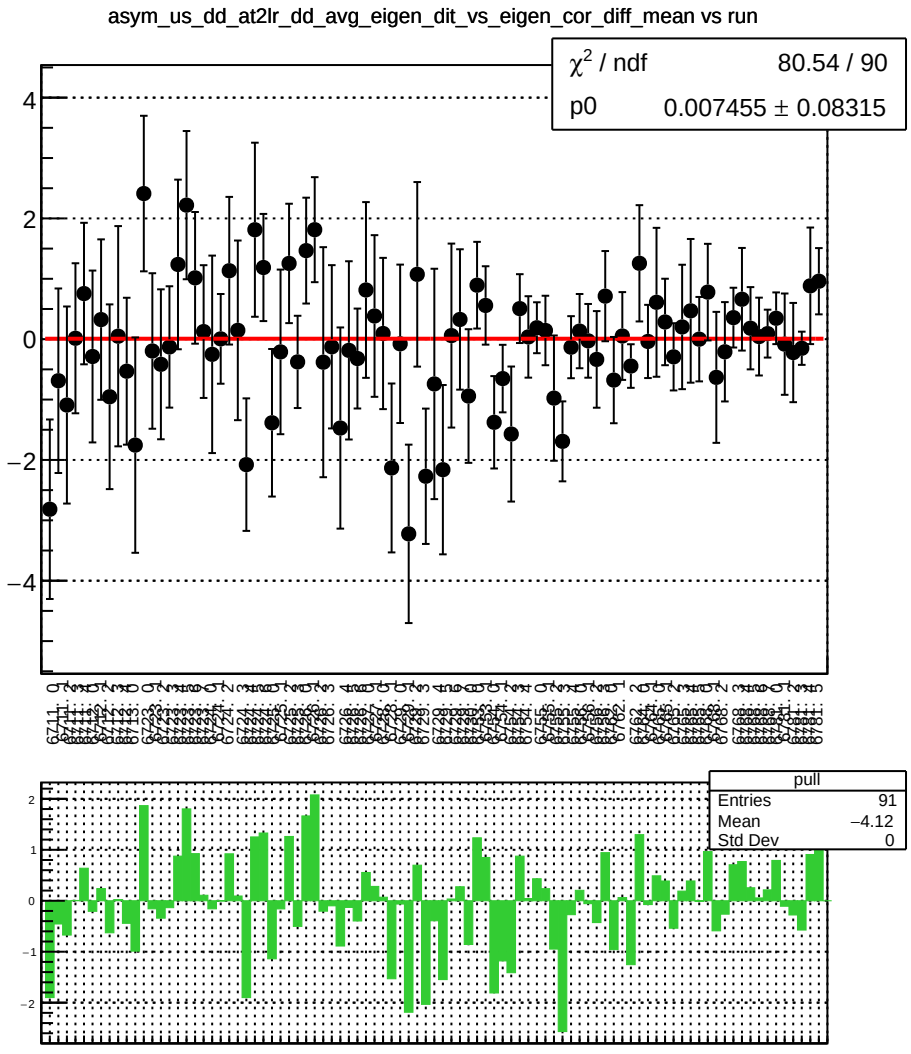

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.241e+05 / 90
p0 71.54 ± 0.0588
180
160
140
120
100
80
60
40
20

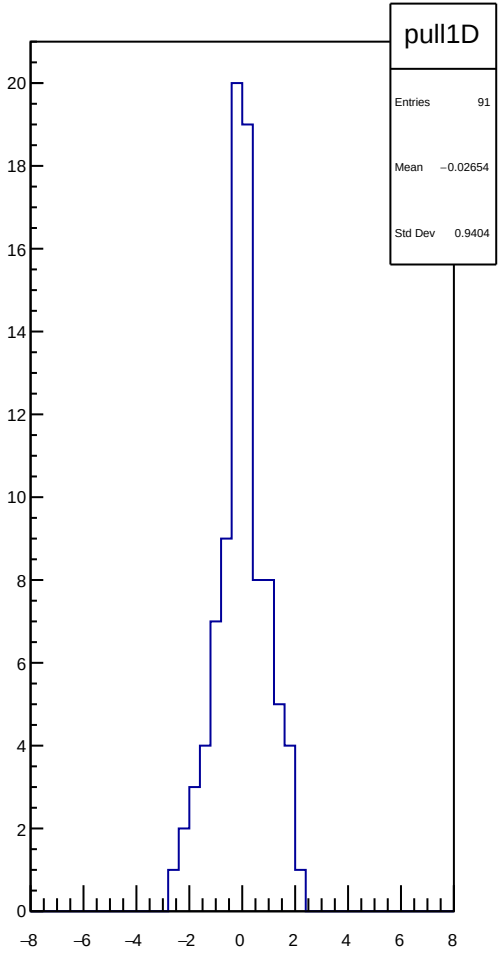

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 91.92 / 90
p0 −7.049e−06 ± 1.262e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 91
Mean 271.4
Std Dev 0
pull1D
Entries 91
Mean 0.002618
Std Dev 1.005

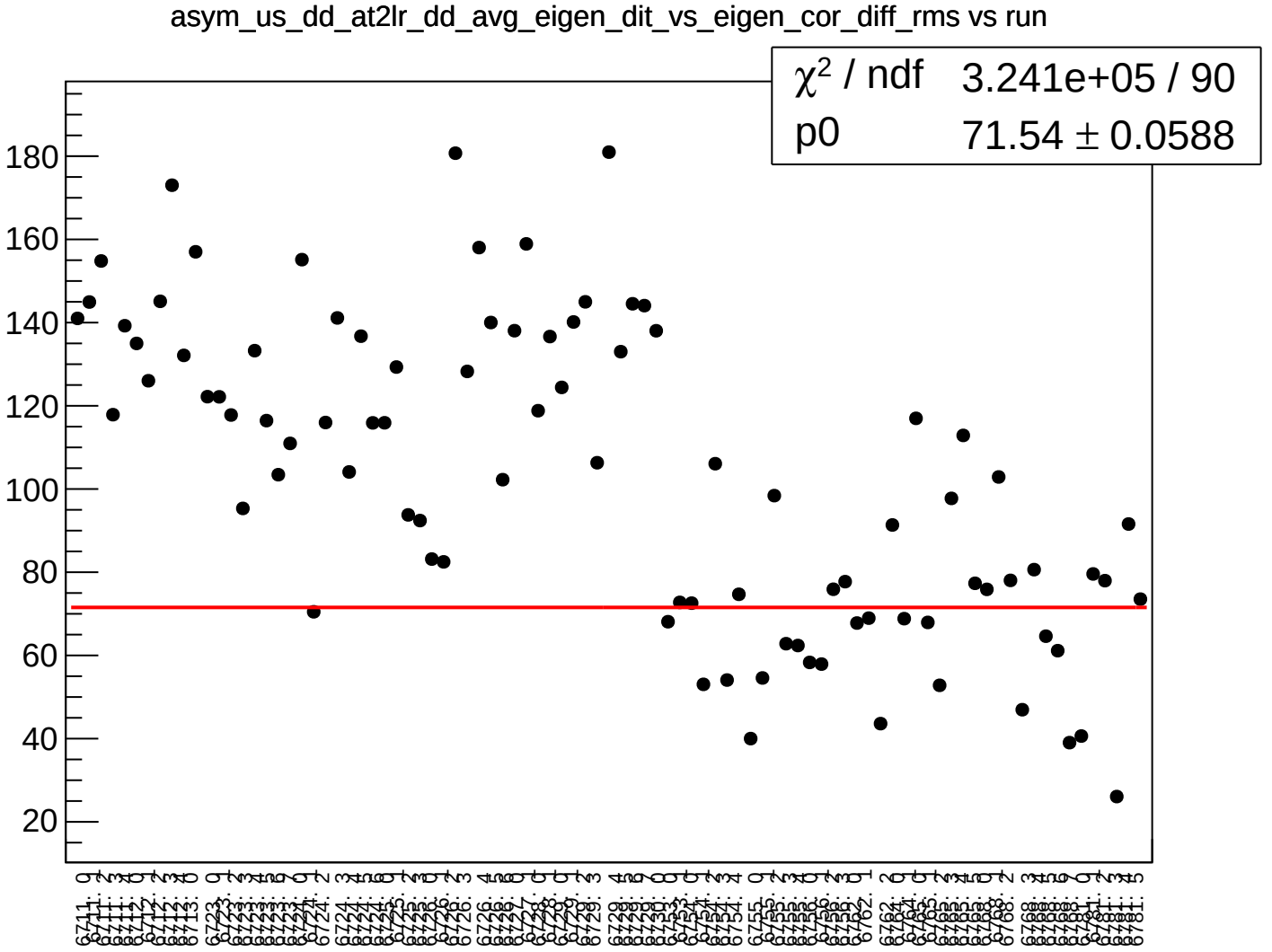

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.484e+05 / 90
p0 0.01 ± 8.924e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

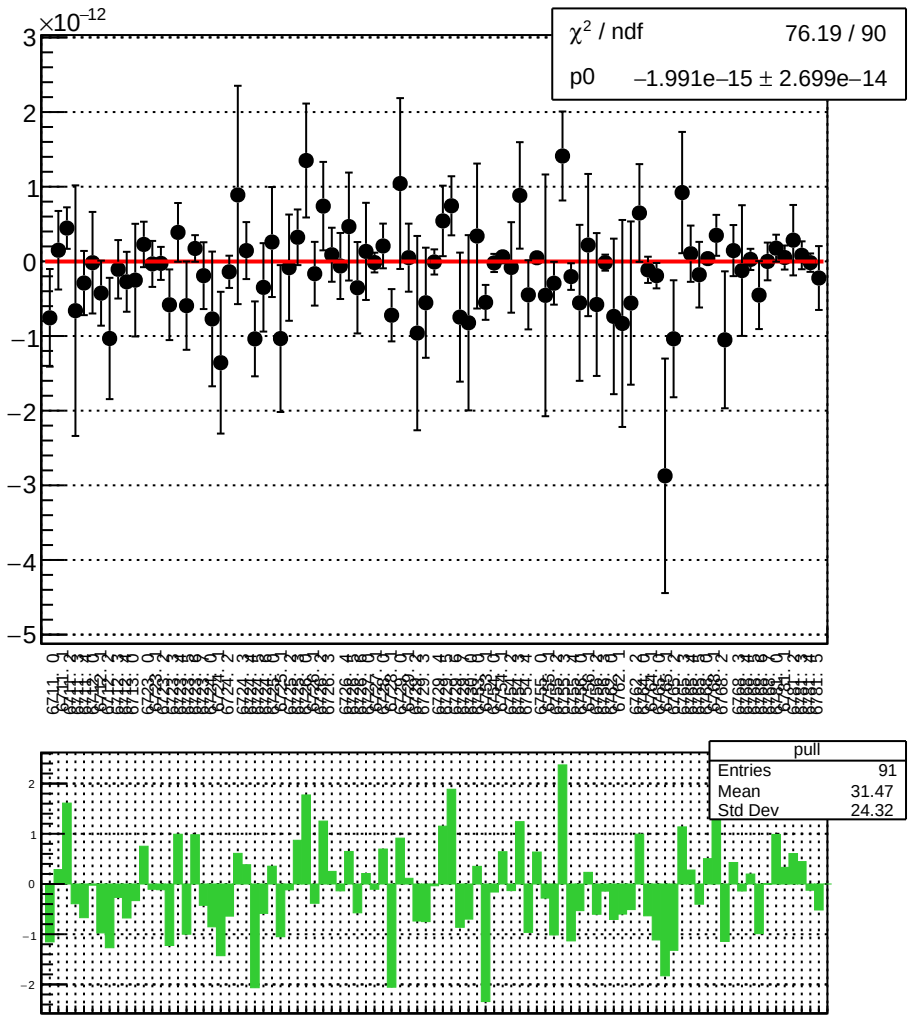

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.54 / 90
p0 0.007455 ± 0.08315
pull
Entries 91
Mean −4.12
Std Dev 0
pull1D
Entries 91
Mean −0.02654
Std Dev 0.9404

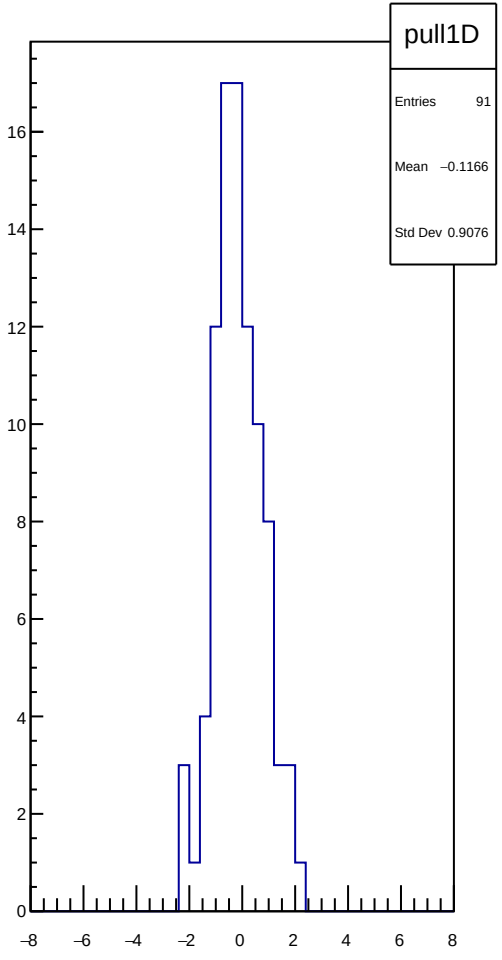

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.241e+05 / 90
p0 71.54 ± 0.0588
180
160
140
120
100
80
60
40
20

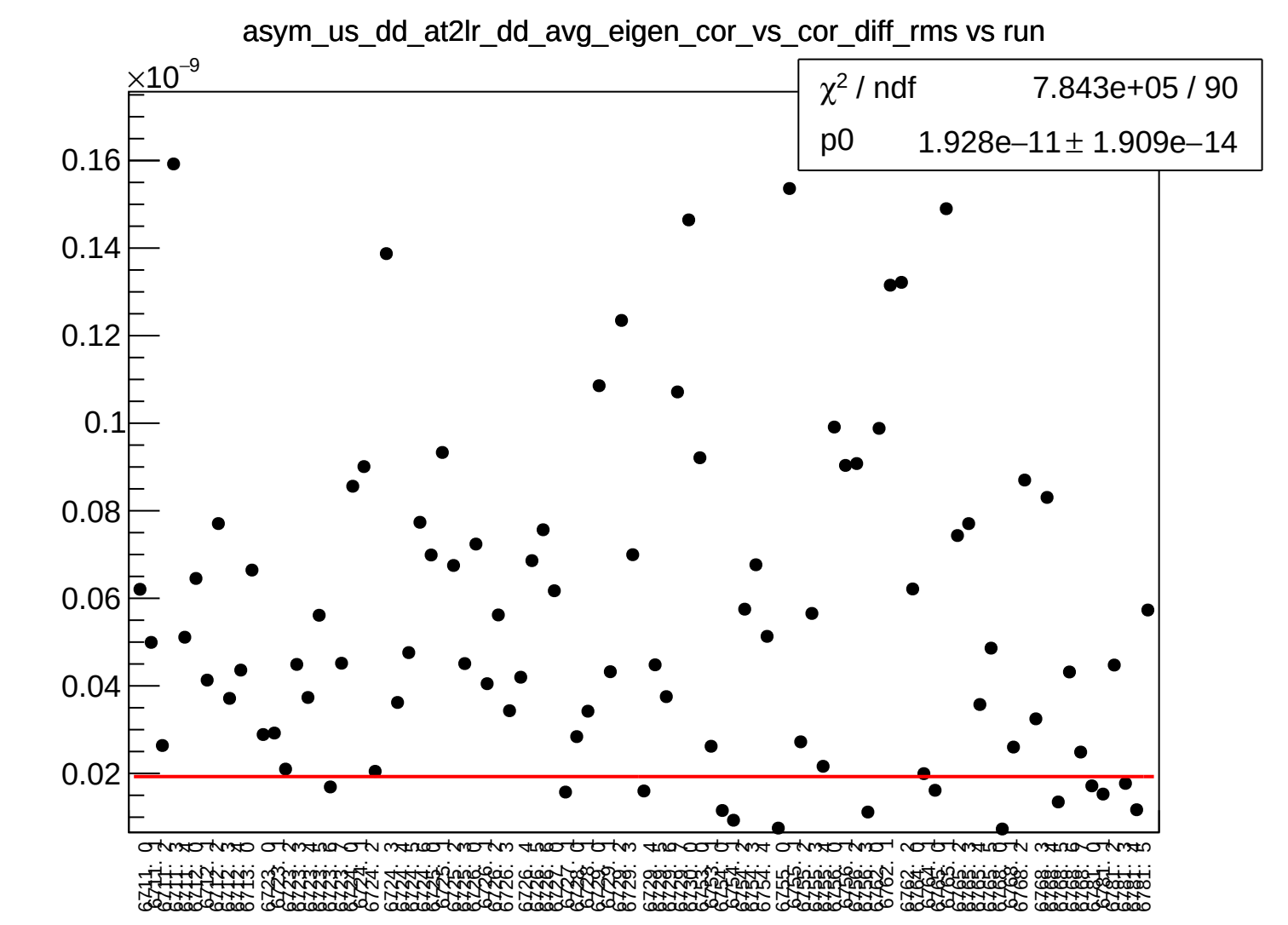

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.54 / 90
p0 0.007455 ± 0.08315
pull
Entries 91
Mean −4.12
Std Dev 0

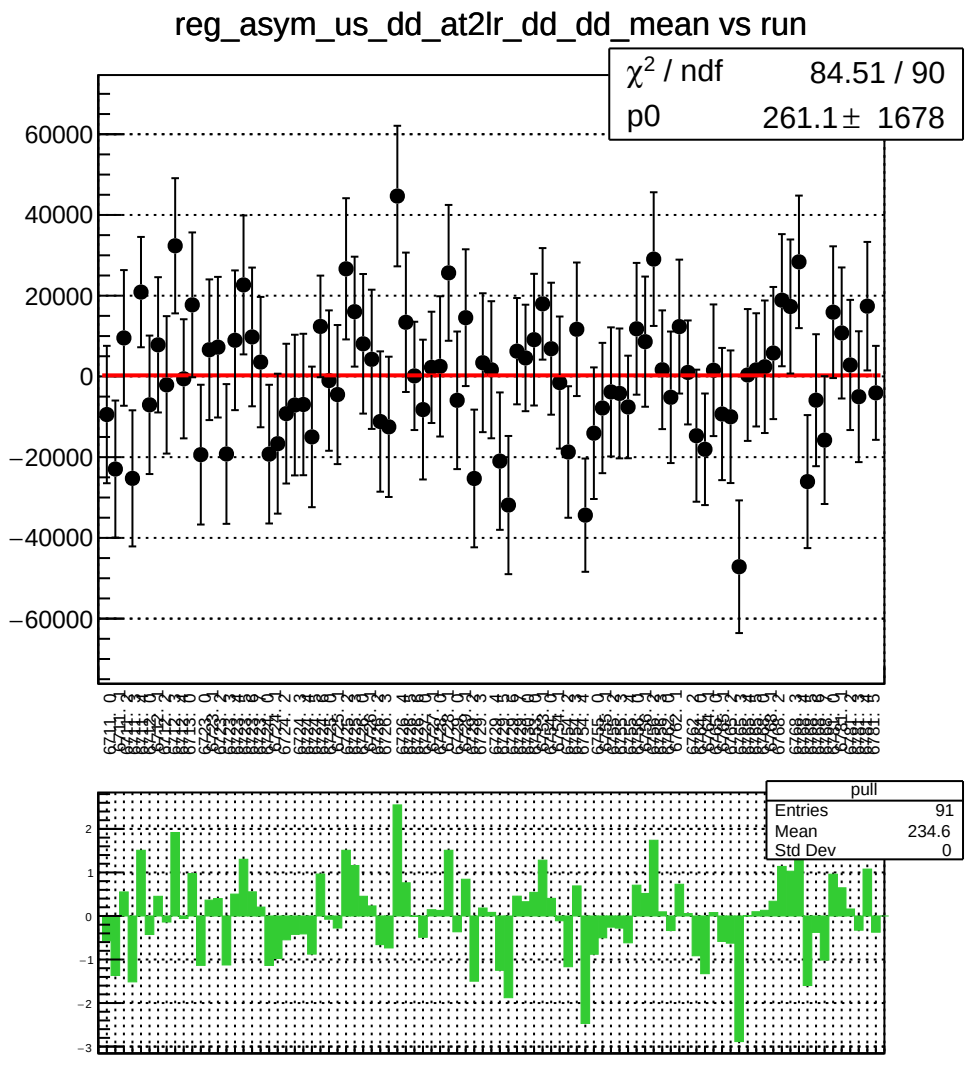

pull1D
Entries 91
Mean −0.02654
Std Dev 0.9404

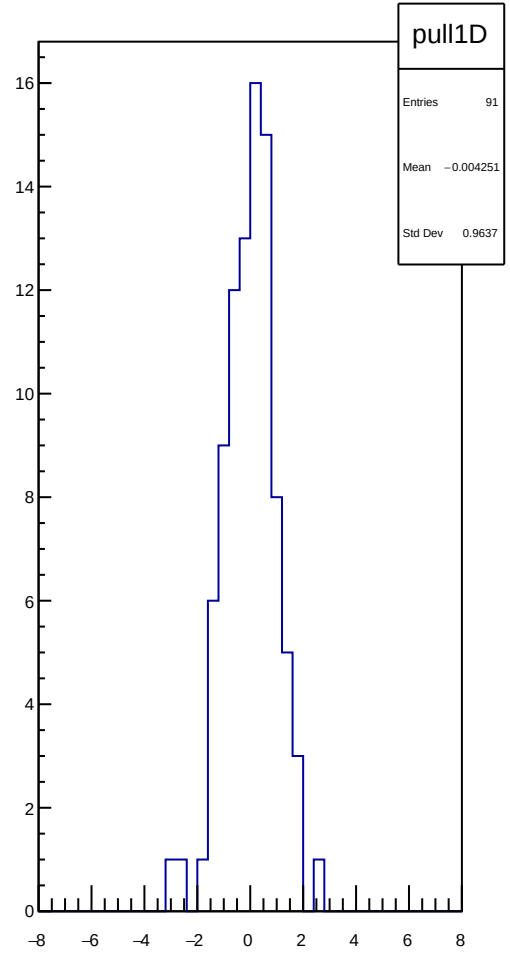

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.241e+05 / 90
p0 71.54 ± 0.0588
180
160
140
120
100
80
60
40
20

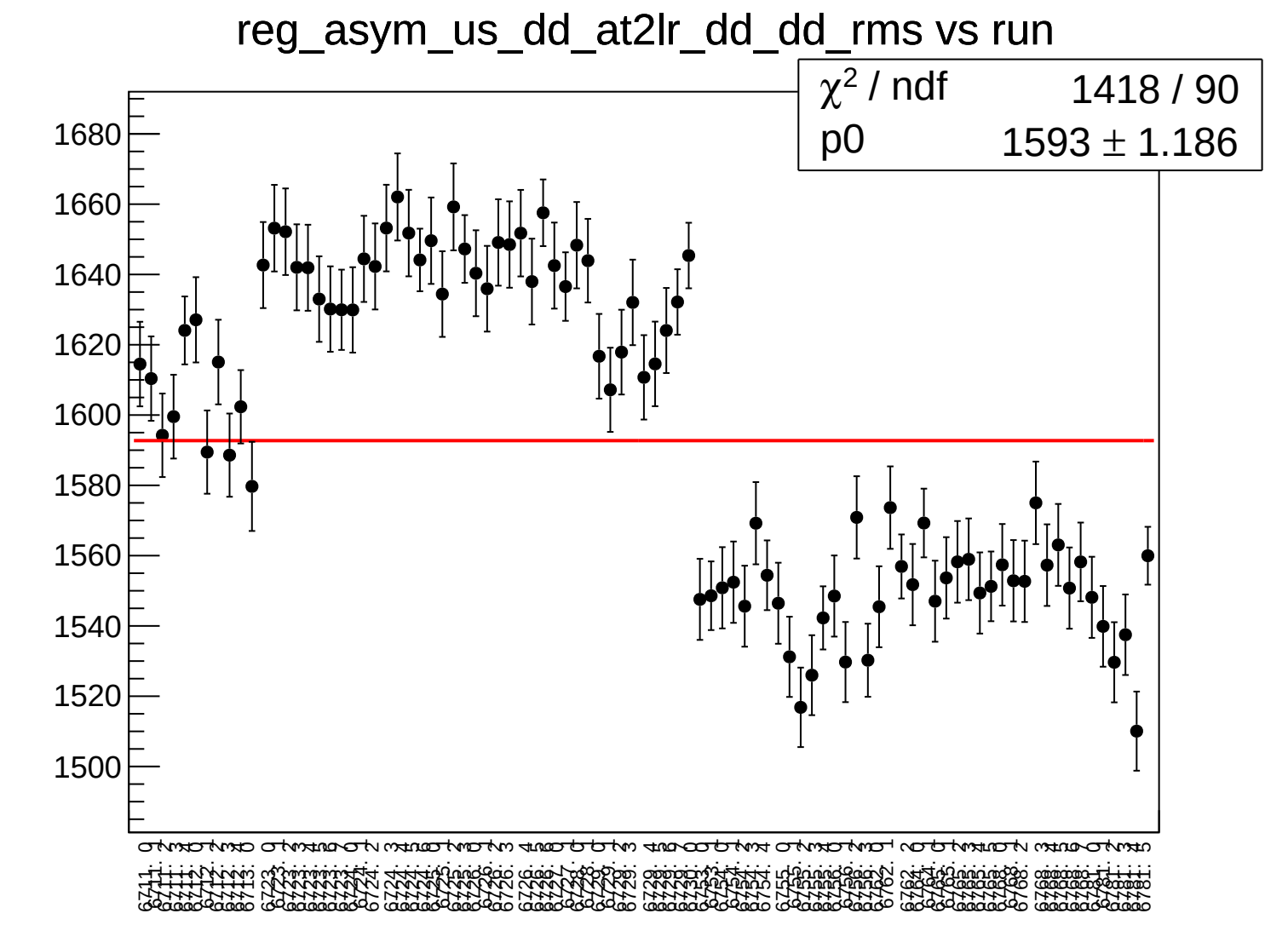

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.19 / 90
p0 −1.991e−15 ± 2.699e−14
pull
Entries 91
Mean 31.47
Std Dev 24.32

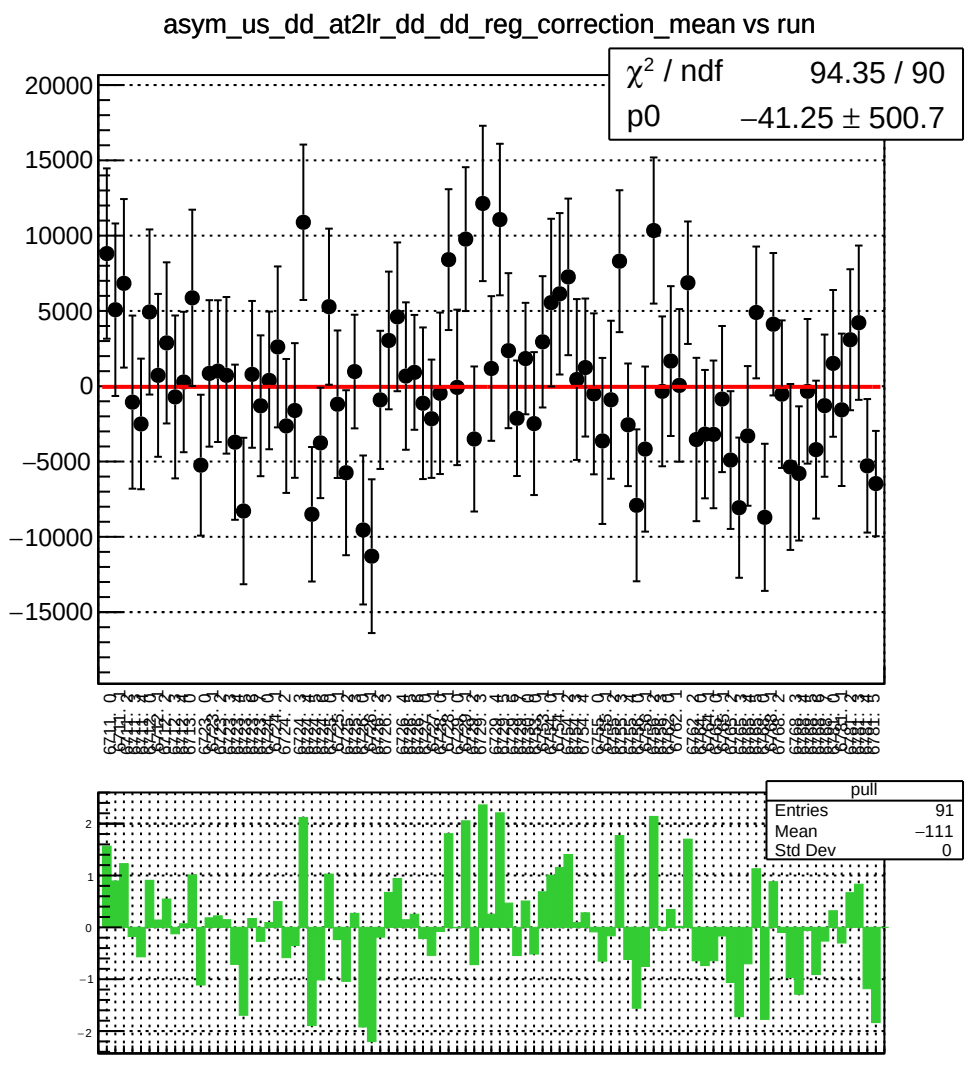

pull1D
Entries 91
Mean −0.1166
Std Dev 0.9076

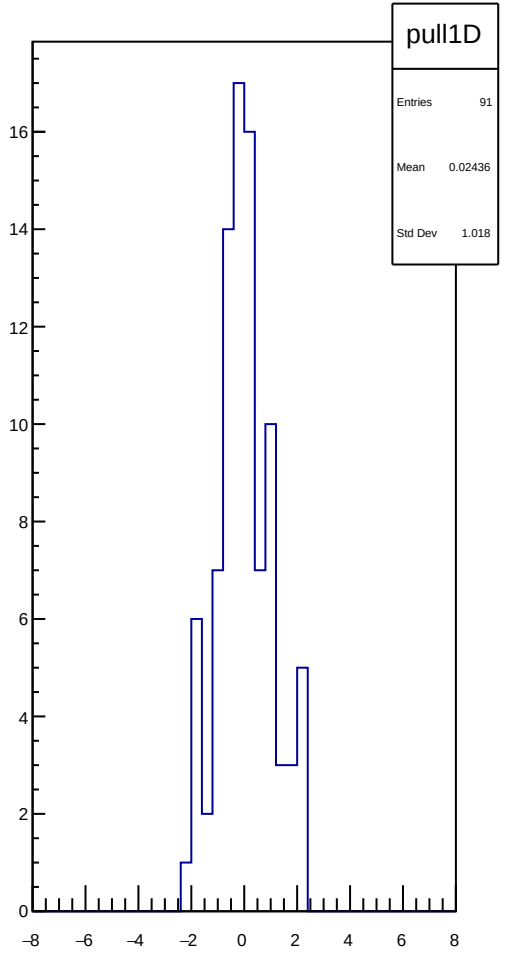

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.843e+05 / 90
p0 1.928e−11 ± 1.909e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

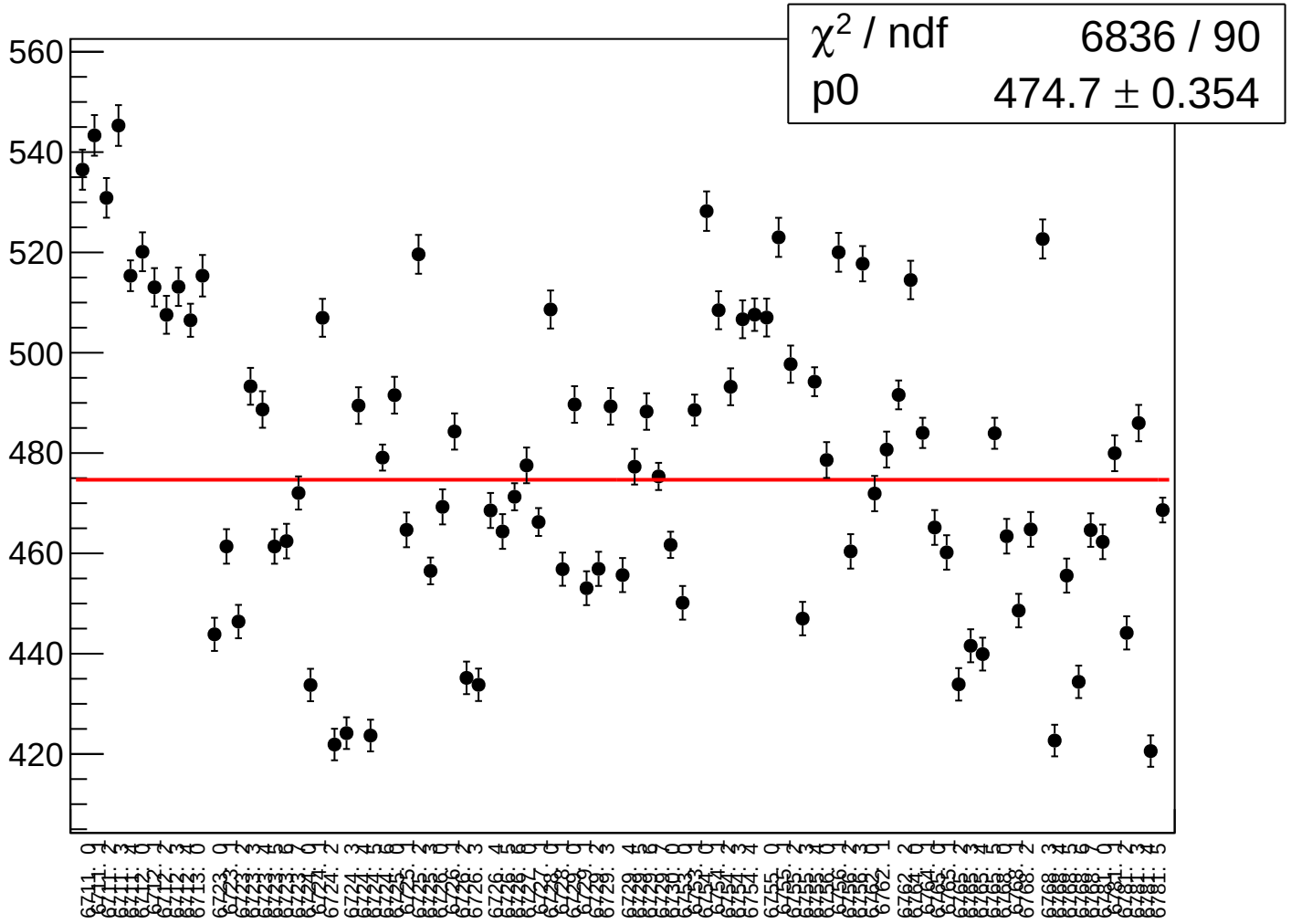

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 84.51 / 90
p0 261.1 ± 1678
pull
Entries 91
Mean 234.6
Std Dev 0

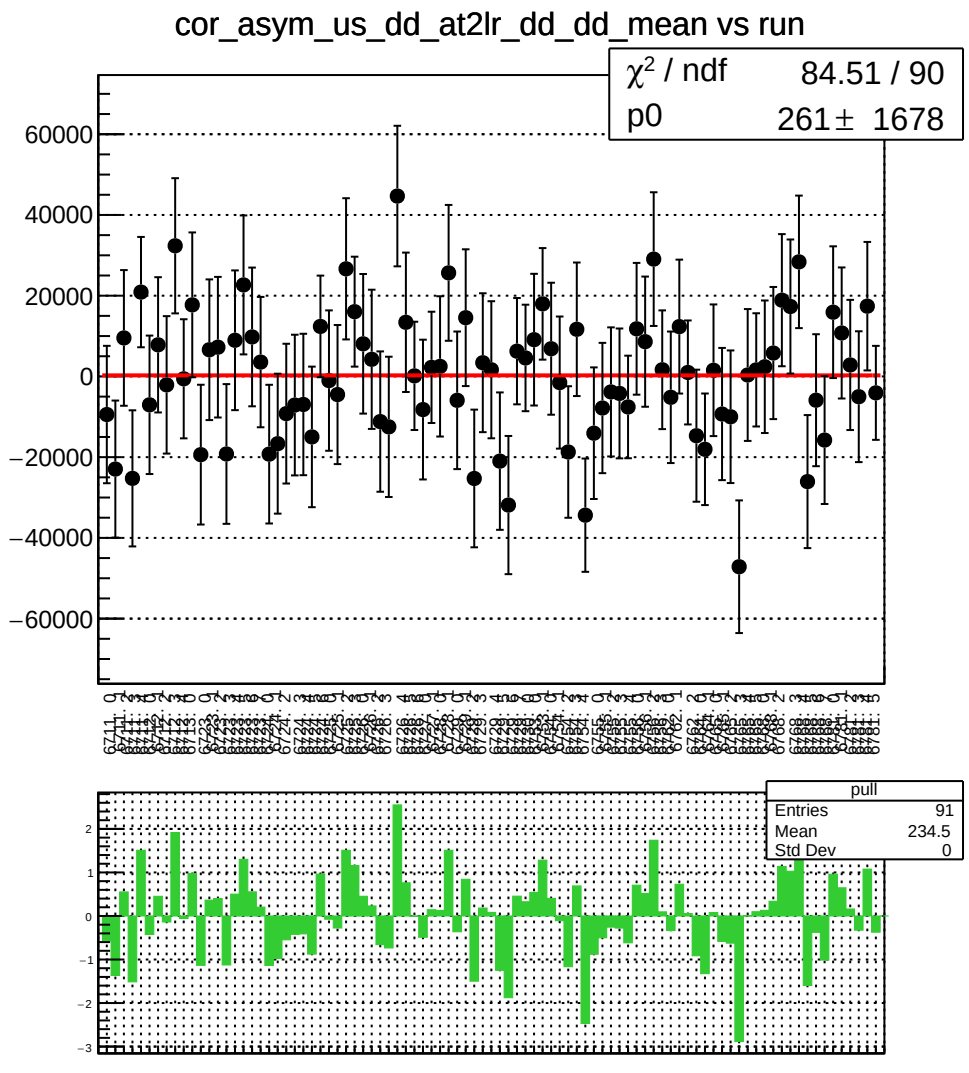

pull1D
Entries 91
Mean −0.004251
Std Dev 0.9637

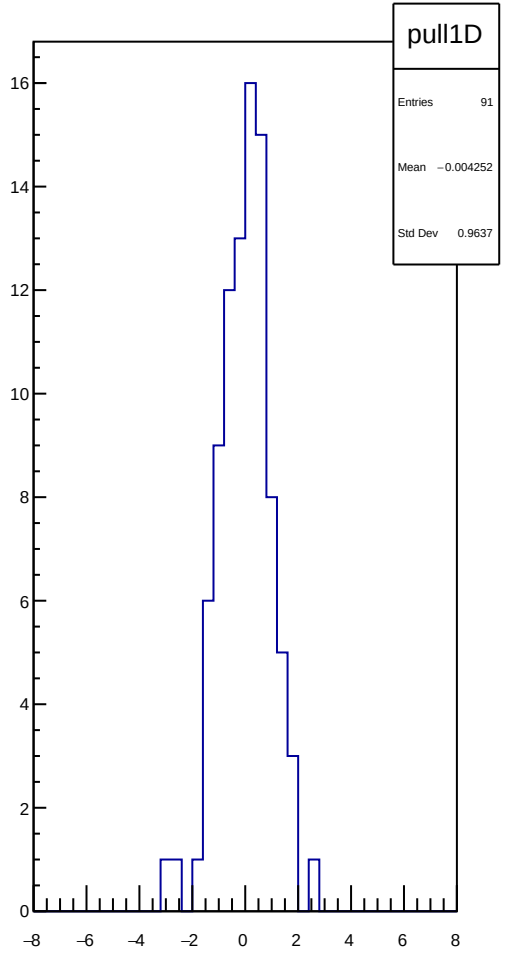

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1418 / 90
p0 1593 ± 1.186
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500

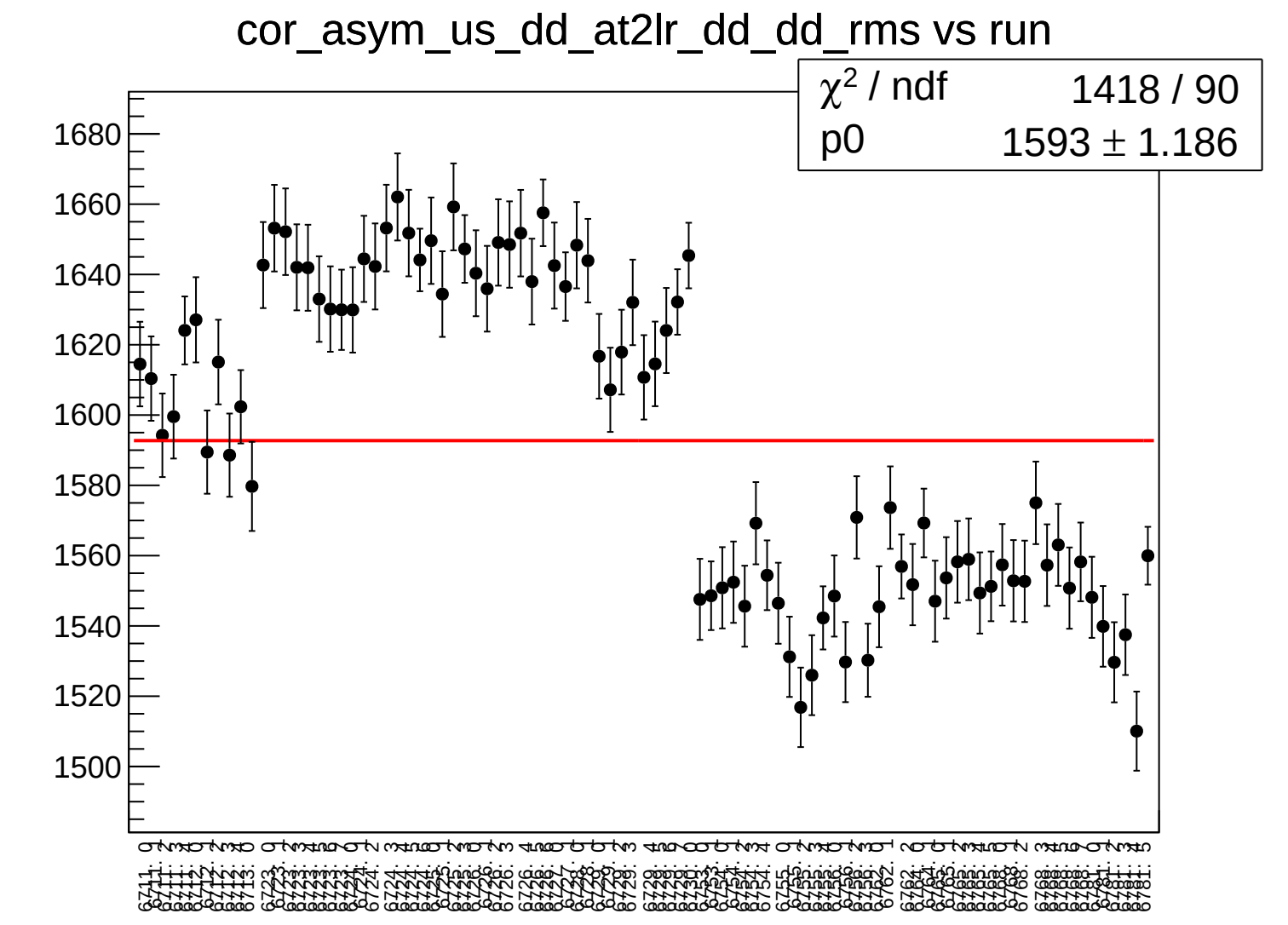

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 94.35 / 90
p0 −41.25 ± 500.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −111
Std Dev 0
2
1
0
−1
−2

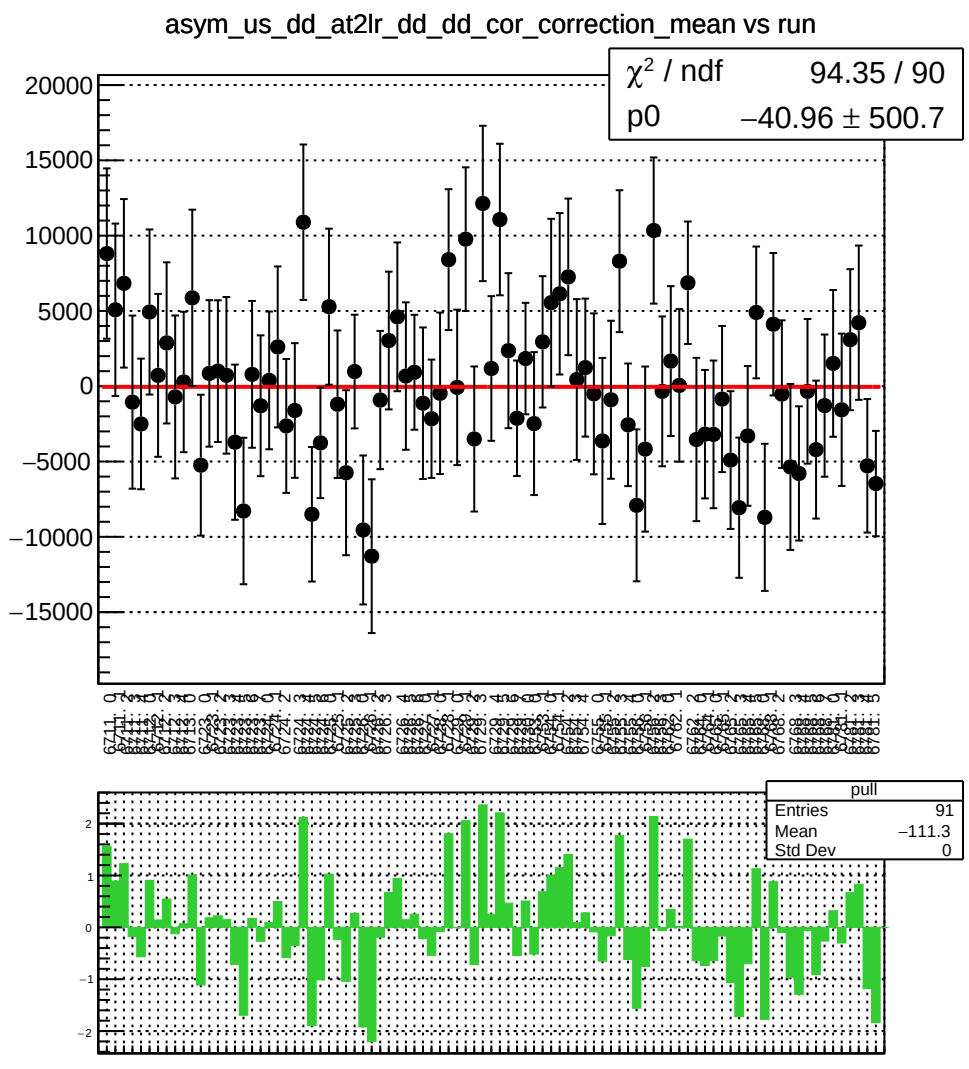

pull1D
Entries 91
Mean 0.02436
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

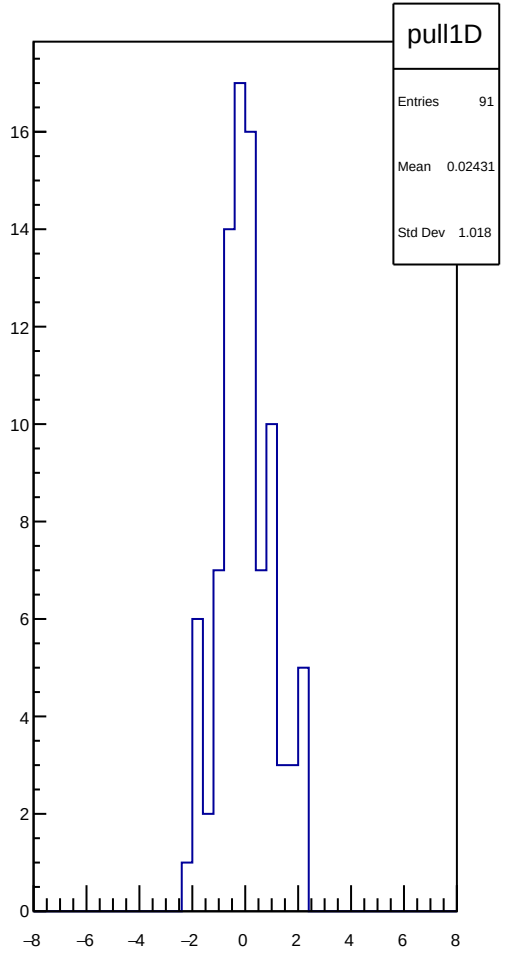

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 6836 / 90
p0 474.7 ± 0.354
560
540
520
500
480
460
440
420

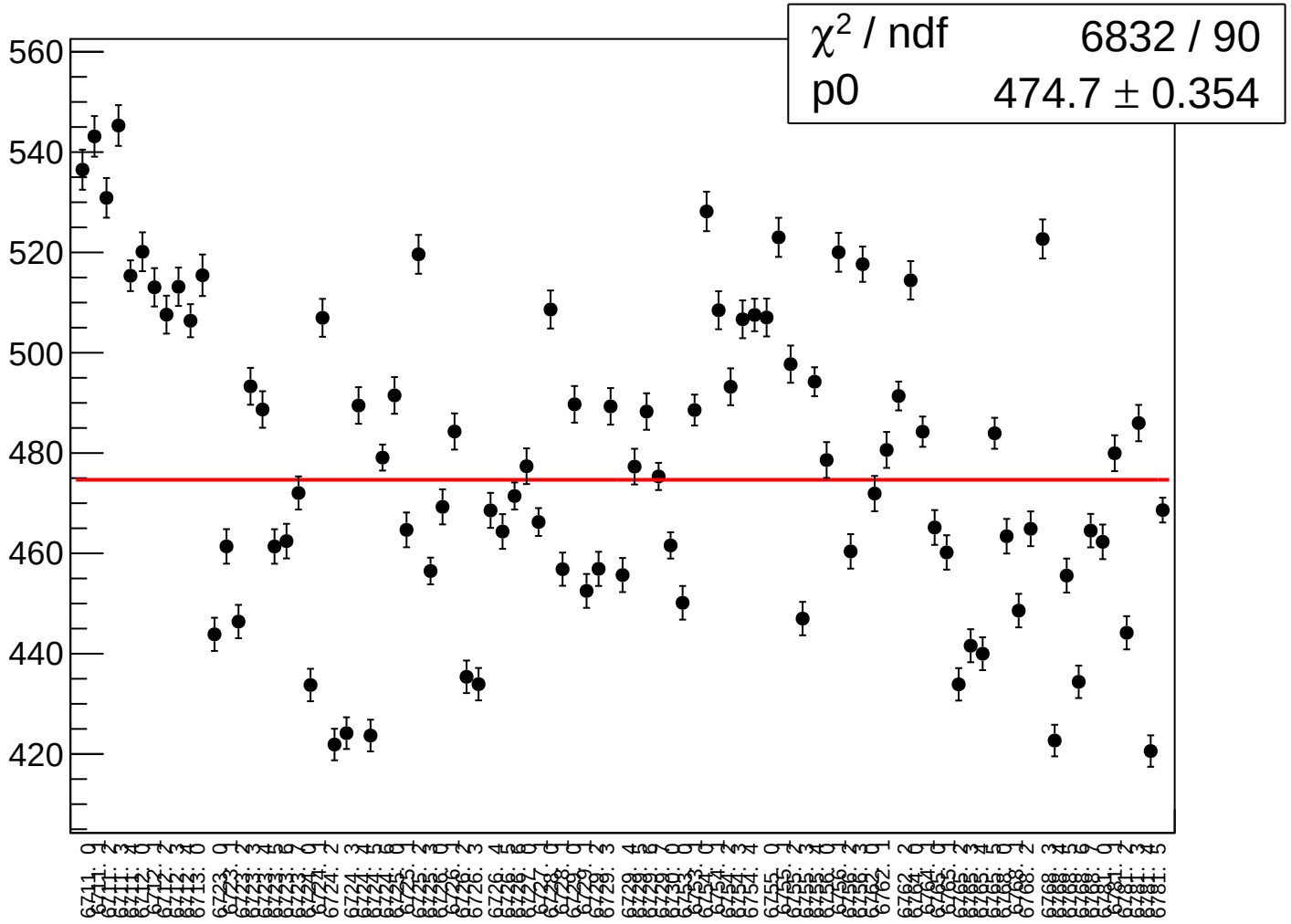

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 84.51 / 90
p0 261 ± 1678
pull
Entries 91
Mean 234.5
Std Dev 0

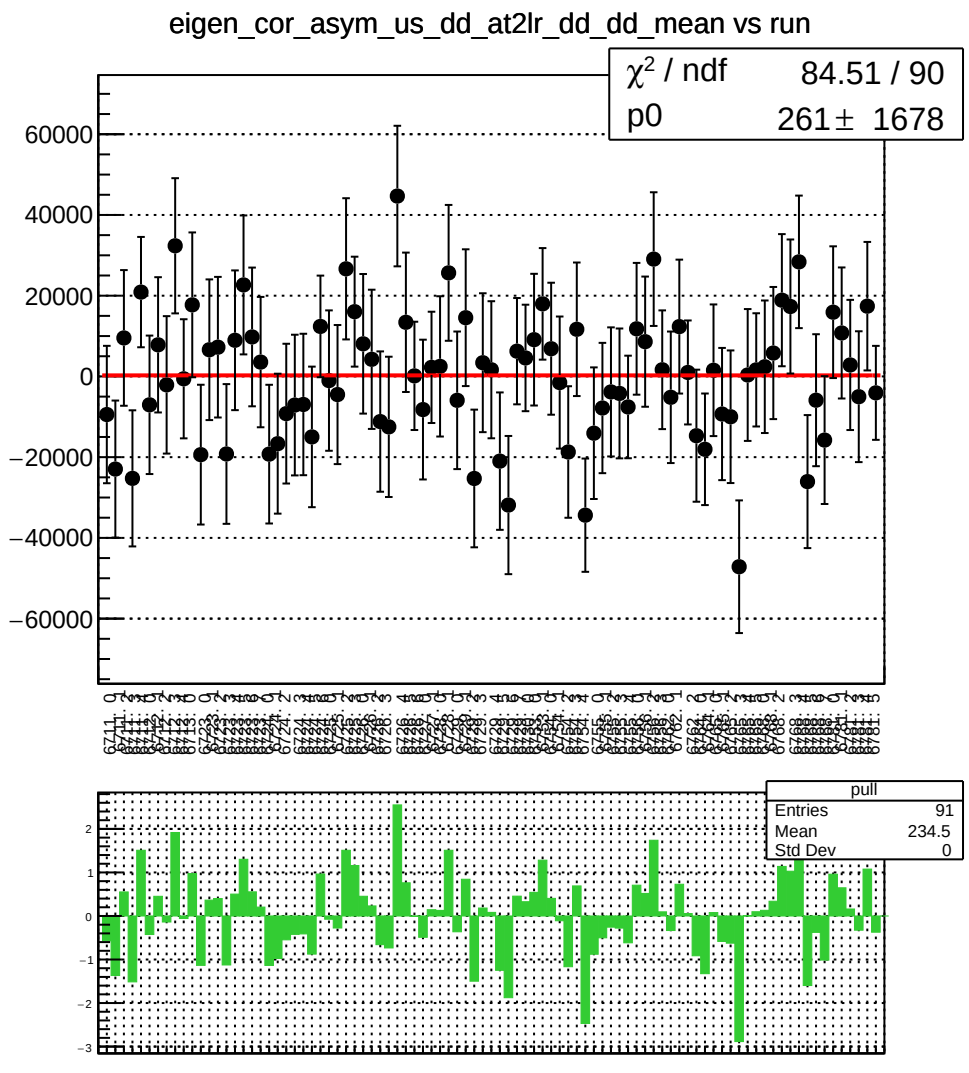

pull1D
Entries 91
Mean −0.004252
Std Dev 0.9637

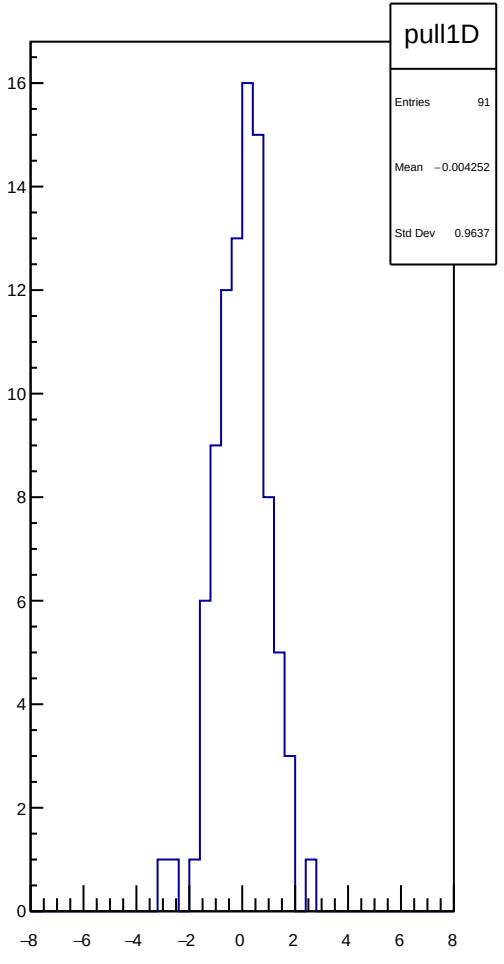

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1418 / 90
p0 1593 ± 1.186
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500

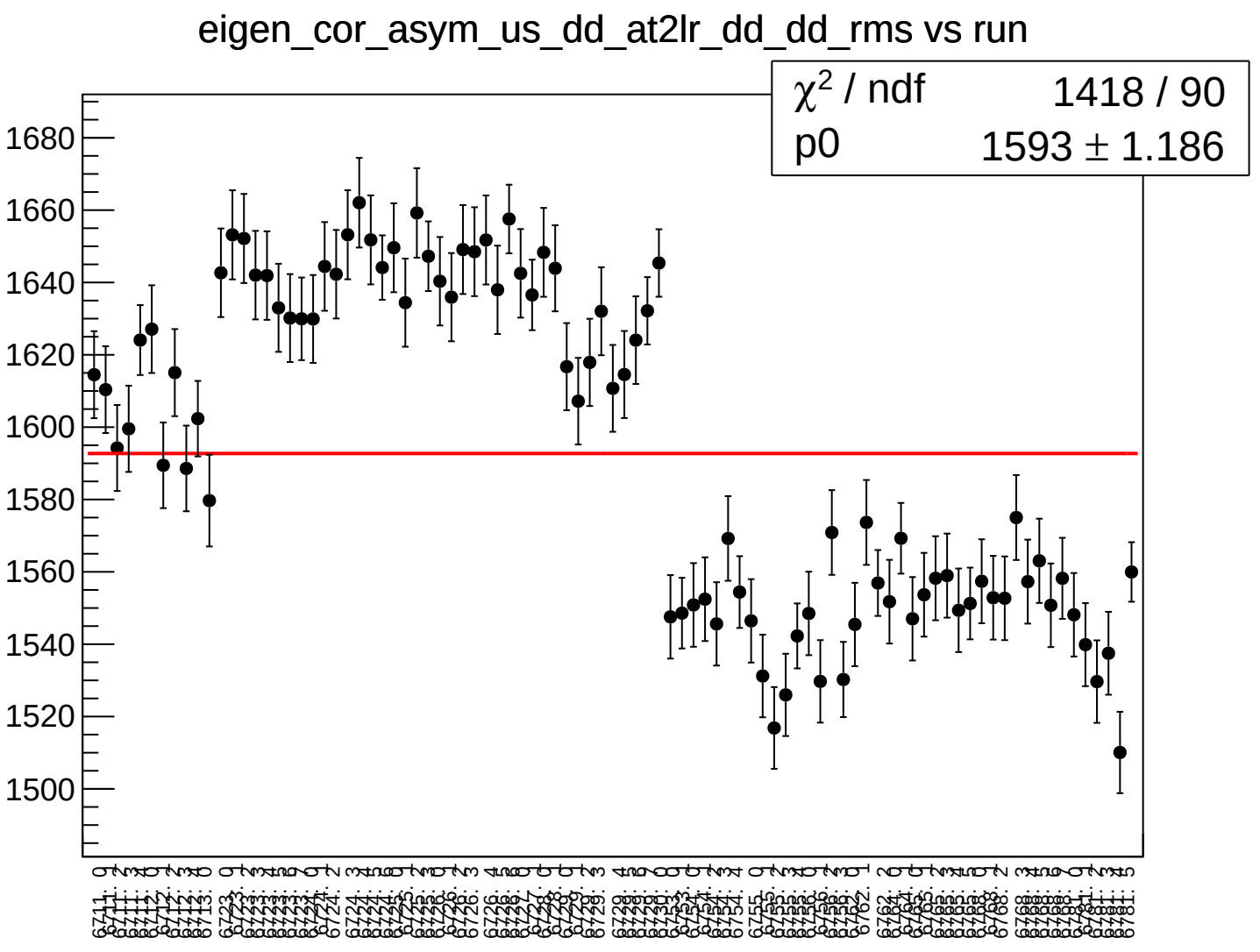

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 94.35 / 90
p0 −40.96 ± 500.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −111.3
Std Dev 0
2
1
0
−1
−2

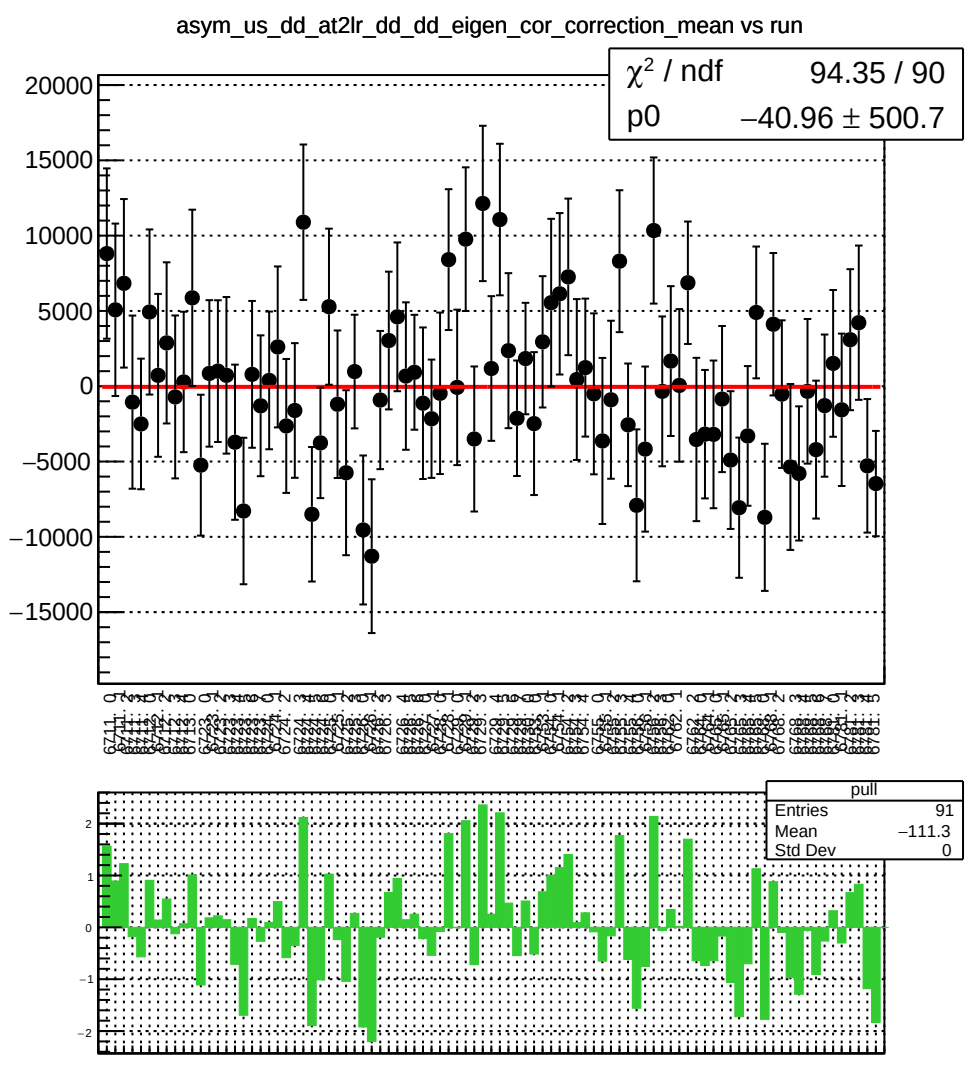

pull1D
Entries 91
Mean 0.02431
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

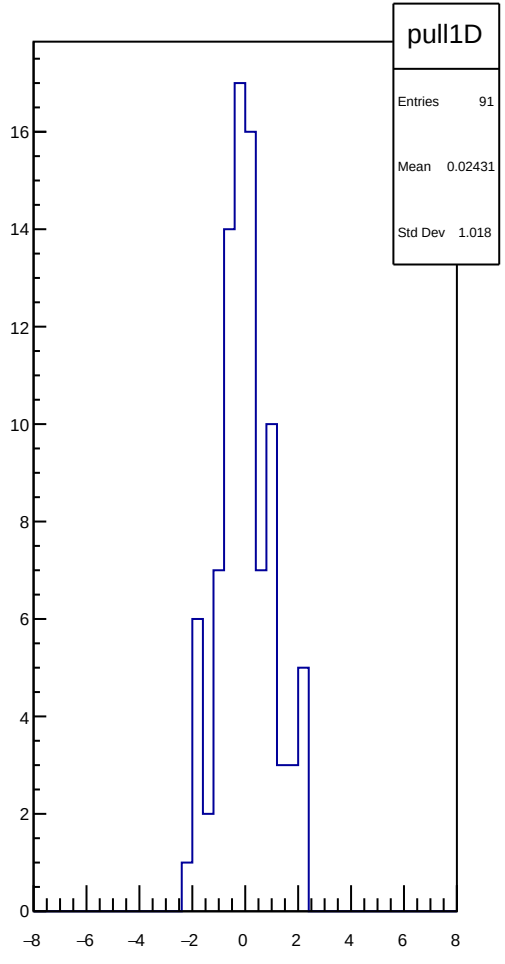

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 6832 / 90
p0 474.7 ± 0.354
560
540
520
500
480
460
440
420

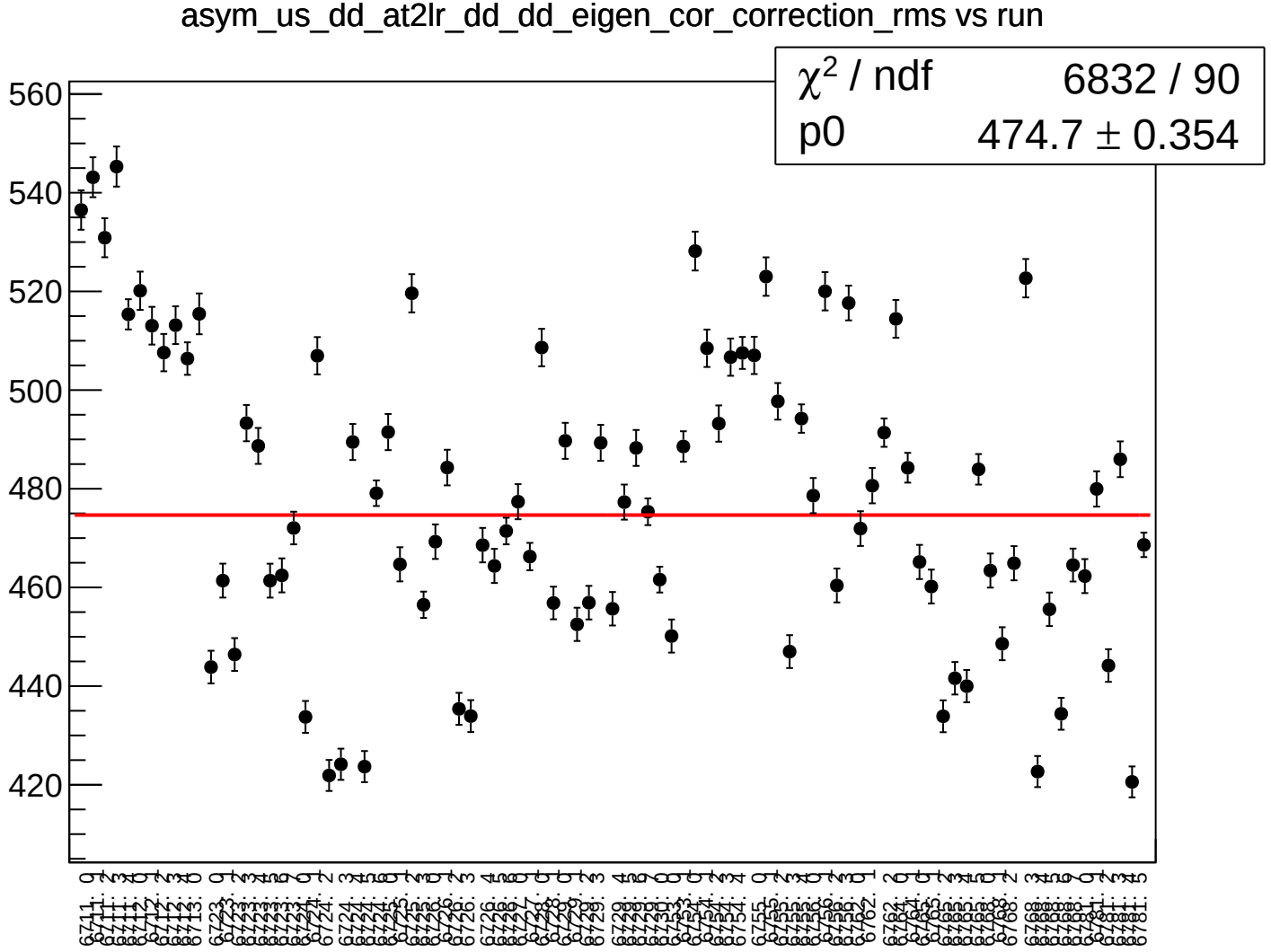

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 84.51 / 90
p0 261 ± 1678
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 234.5
Std Dev 0
2
1
0
−1
−2
−3

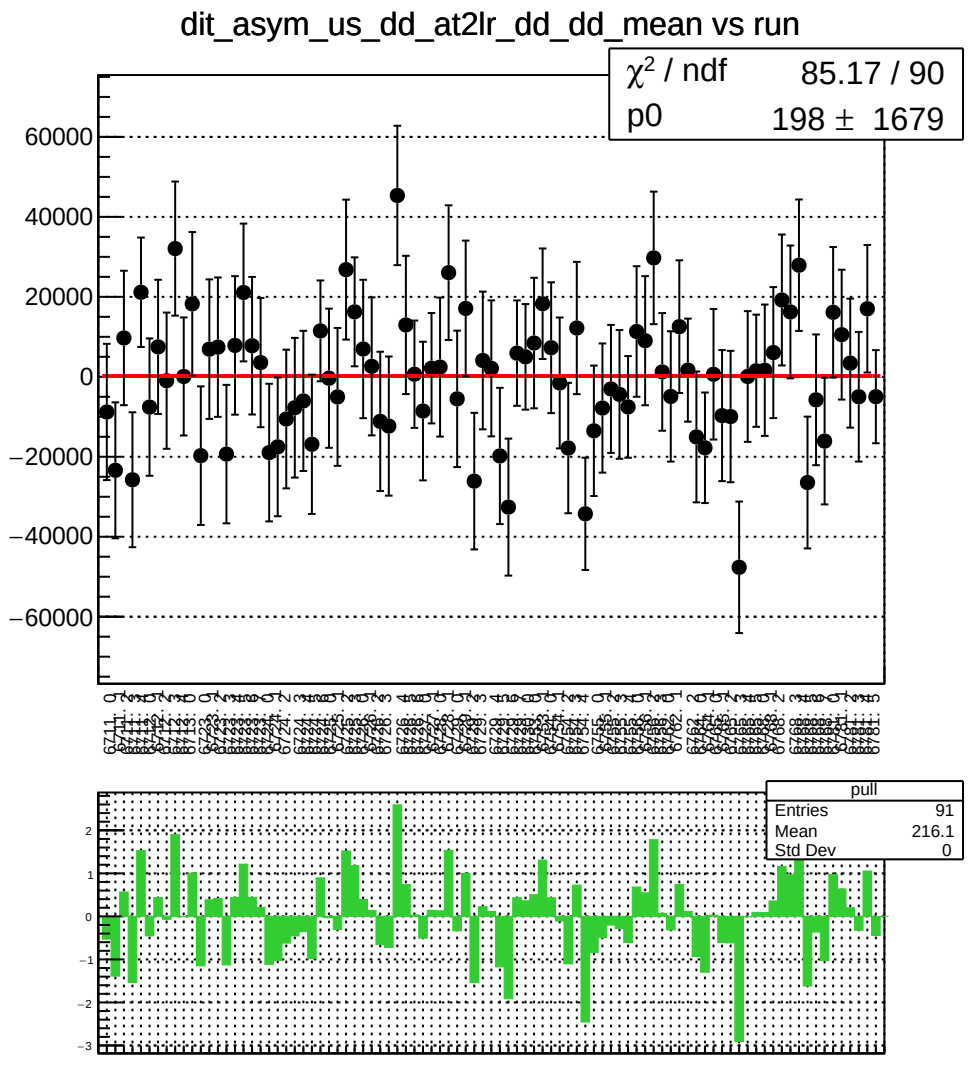

pull1D
Entries 91
Mean −0.004252
Std Dev 0.9637
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

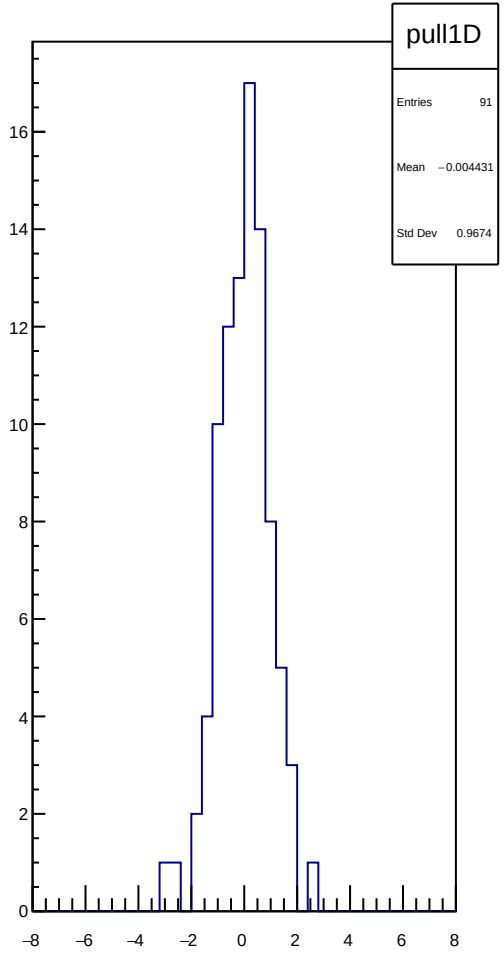

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1418 / 90
p0 1593 ± 1.186
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500

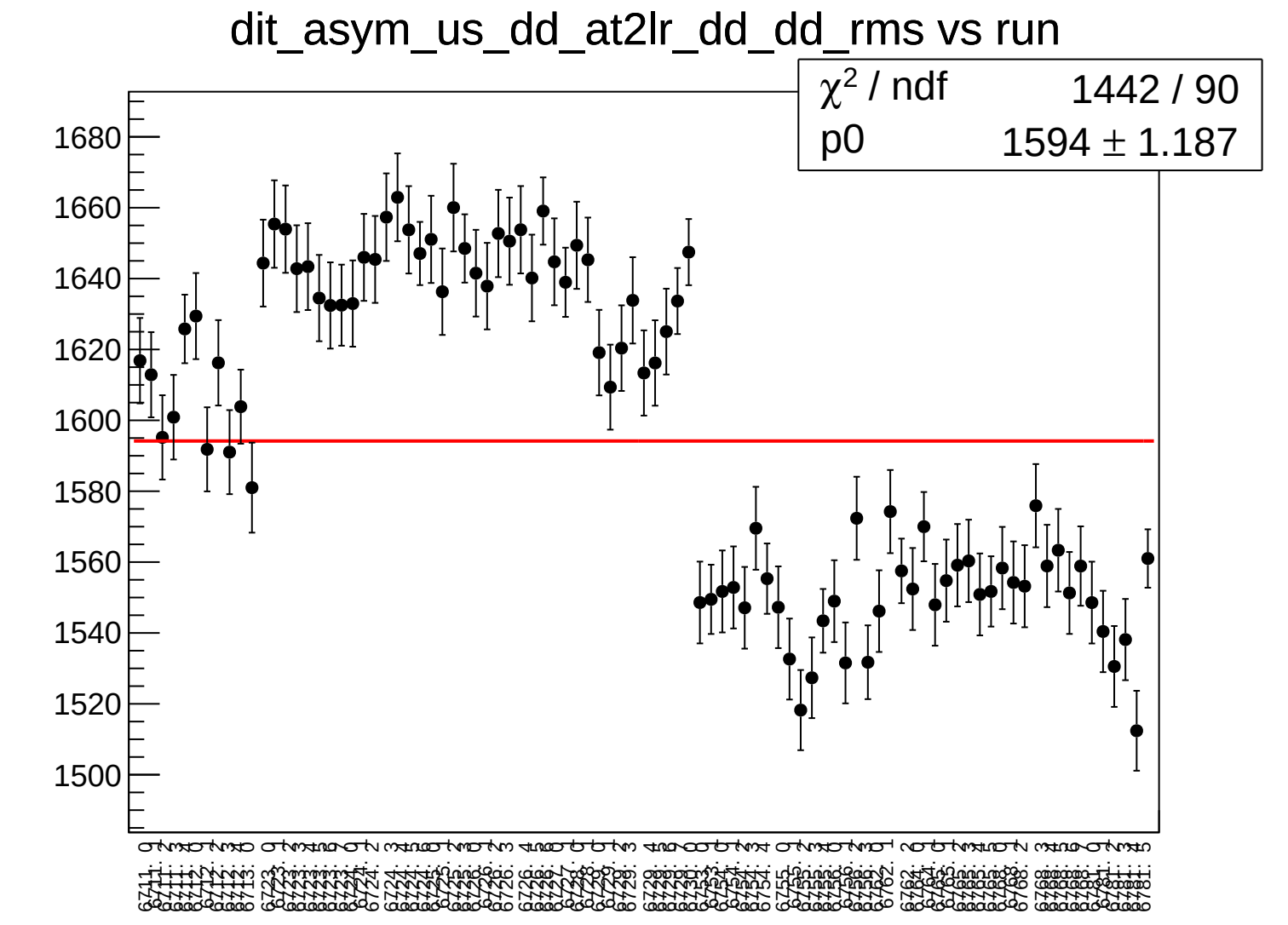

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.35 / 90
p0 −40.96 ± 500.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −111.3
Std Dev 0
2
1
0
−1
−2

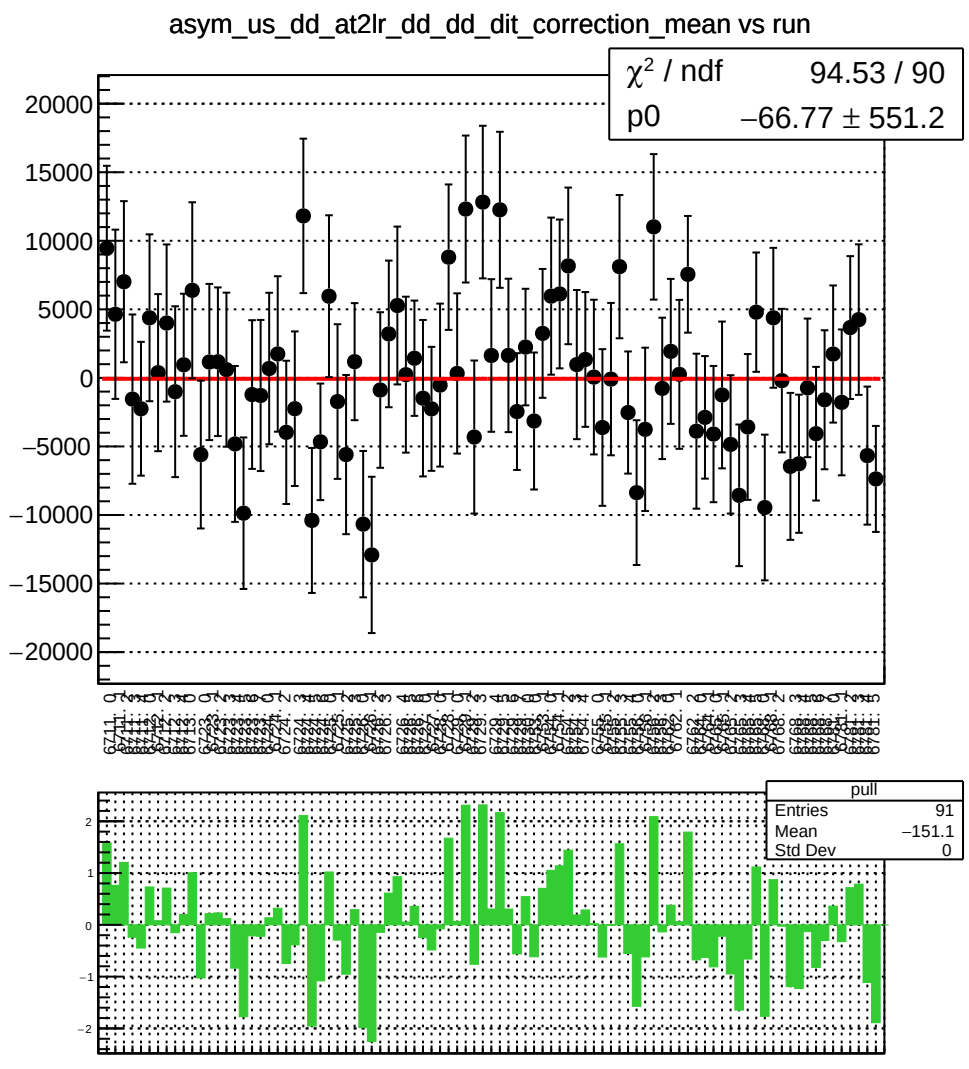

pull1D
Entries 91
Mean 0.02431
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

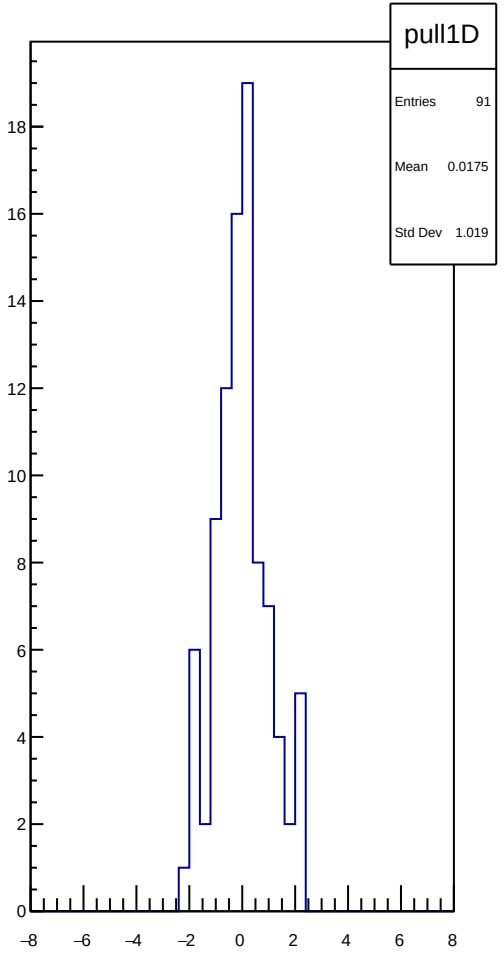

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 6832 / 90
p0 474.7 ± 0.354
560
540
520
500
480
460
440
420

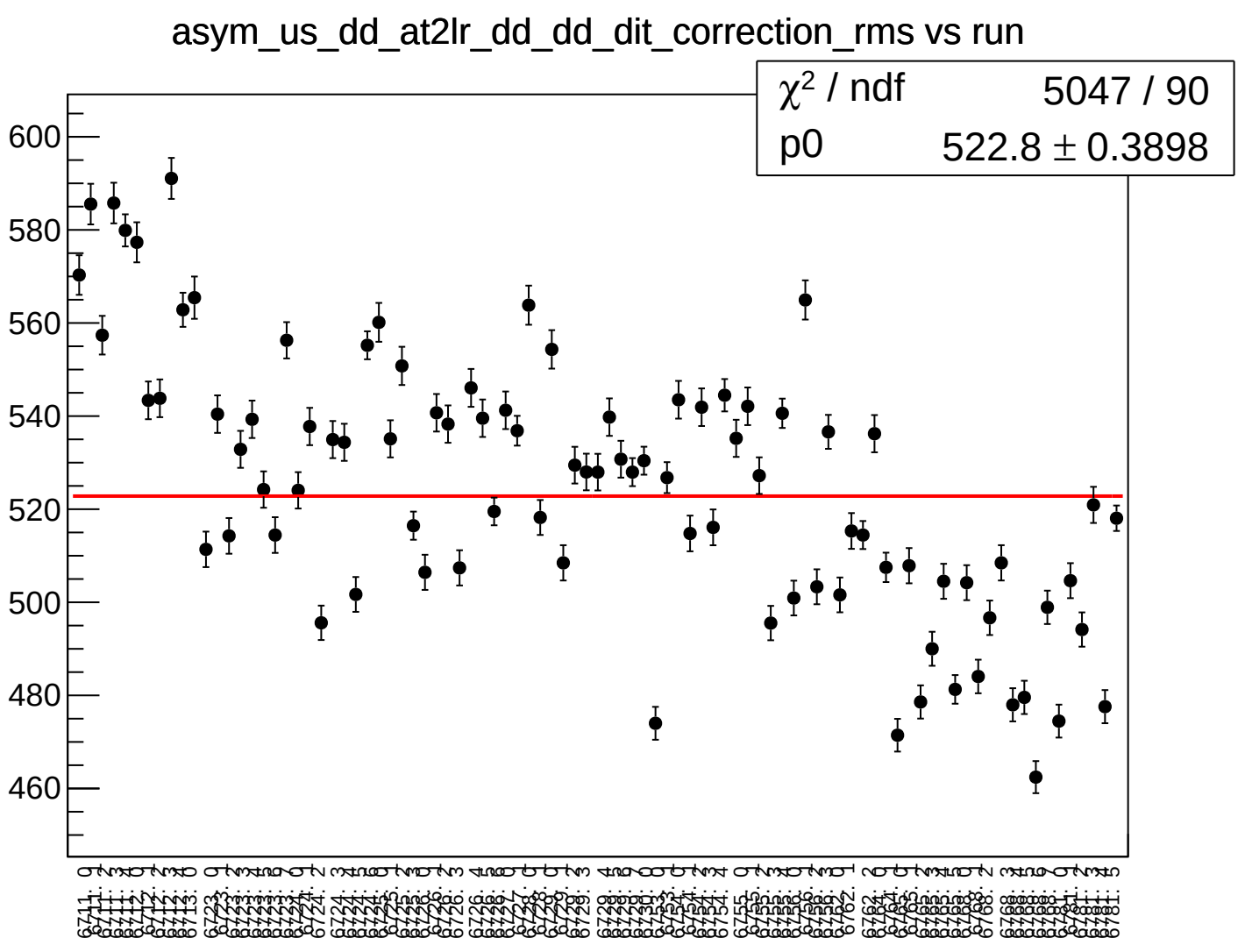

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 85.17 / 90
p0 198 ± 1679
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 216.1
Std Dev 0
2
1
0
−1
−2
−3

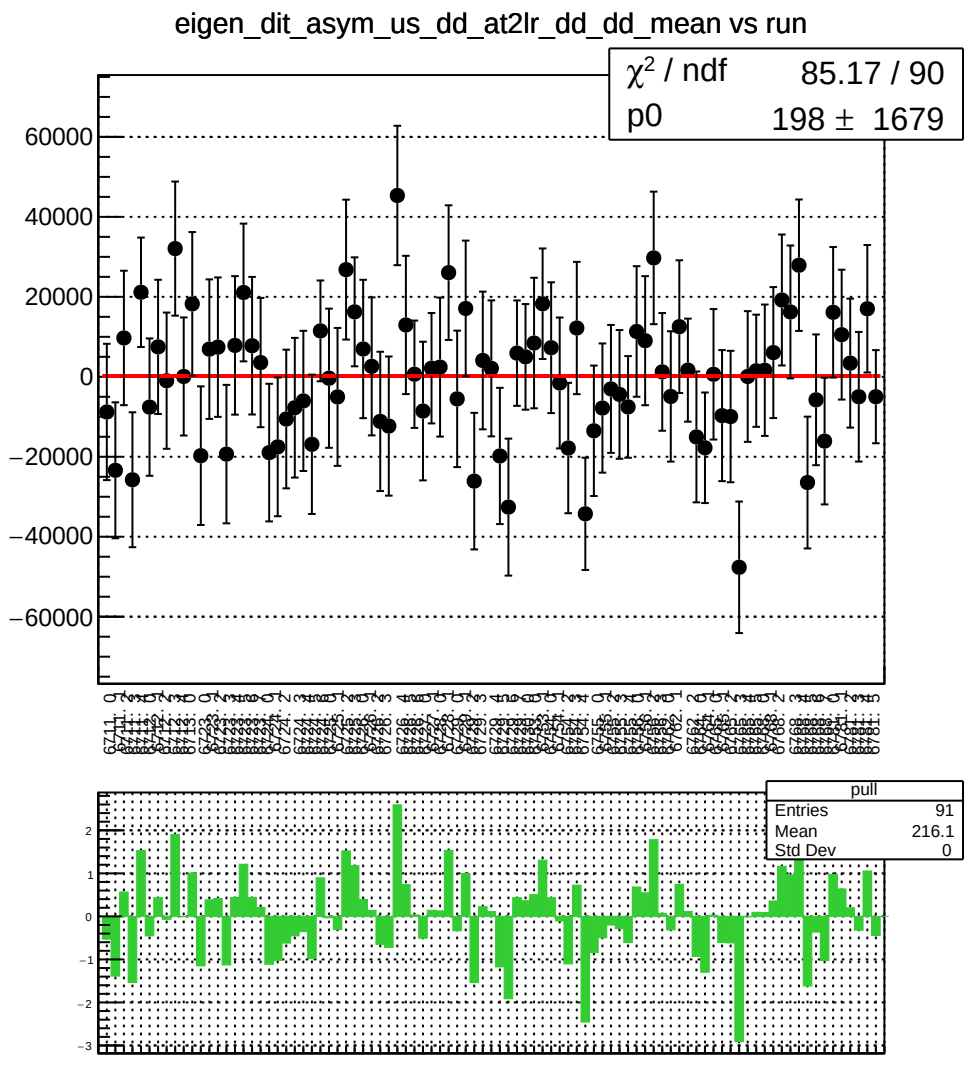

pull1D
Entries 91
Mean −0.004431
Std Dev 0.9674
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

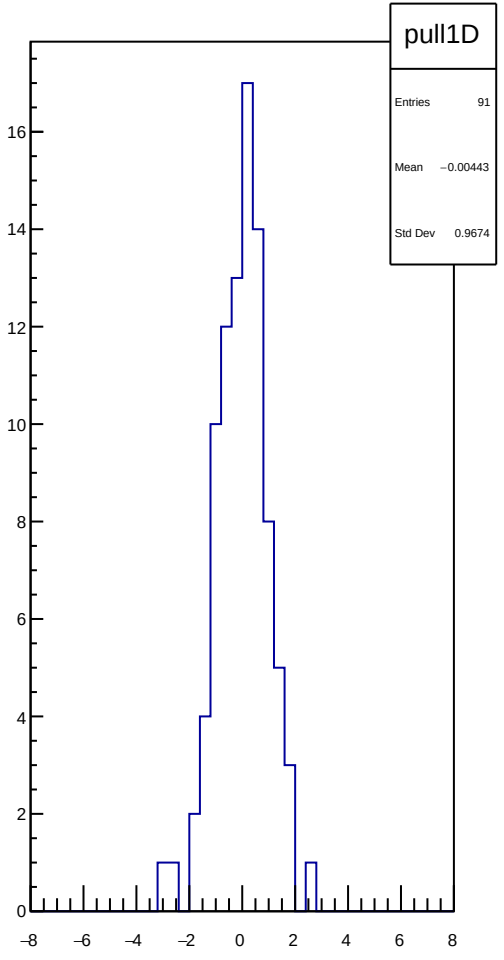

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1442 / 90
p0 1594 ± 1.187
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500

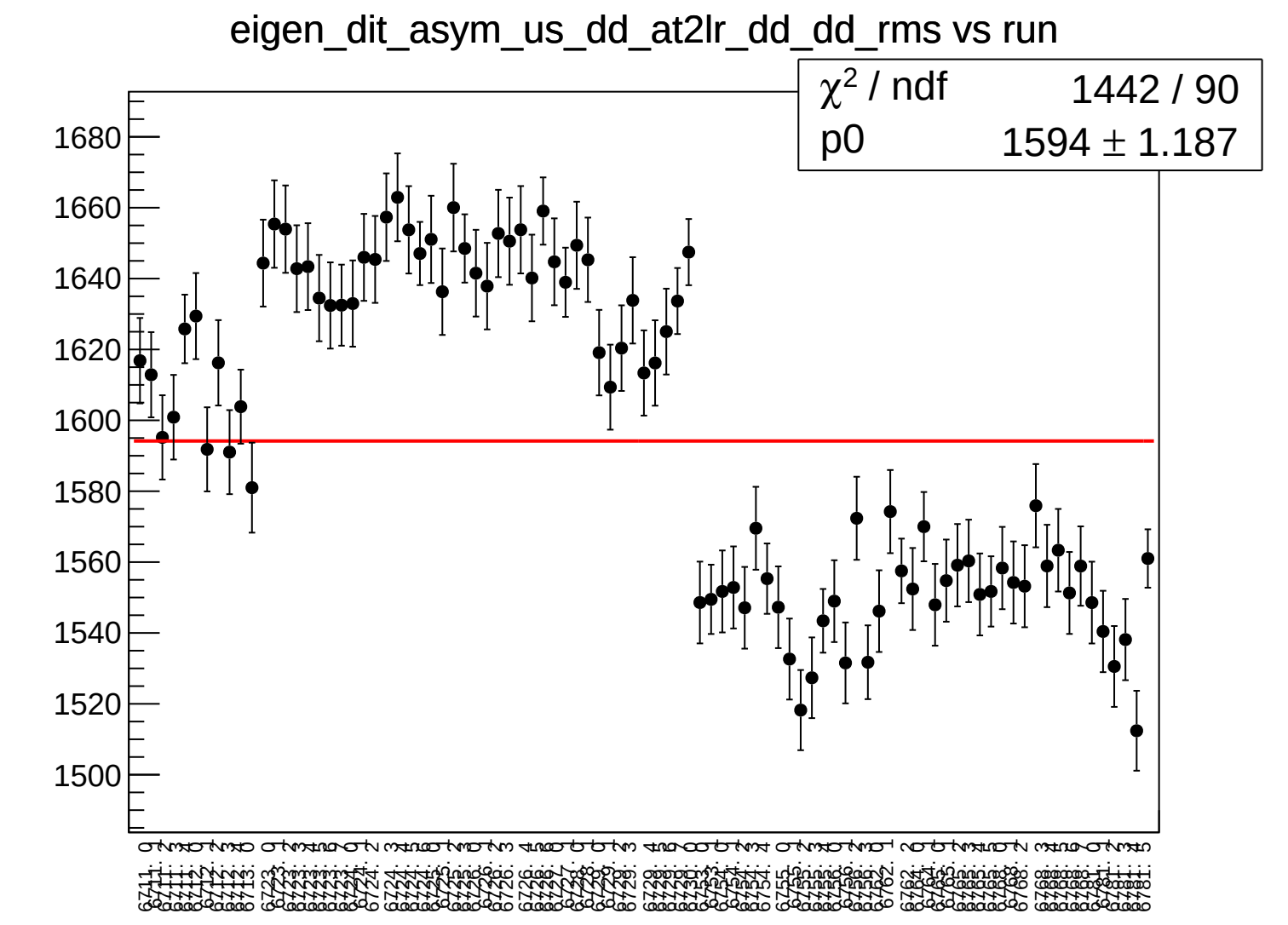

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 94.53 / 90
p0 −66.77 ± 551.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 91
Mean −151.1
Std Dev 0
2
1
0
−1
−2

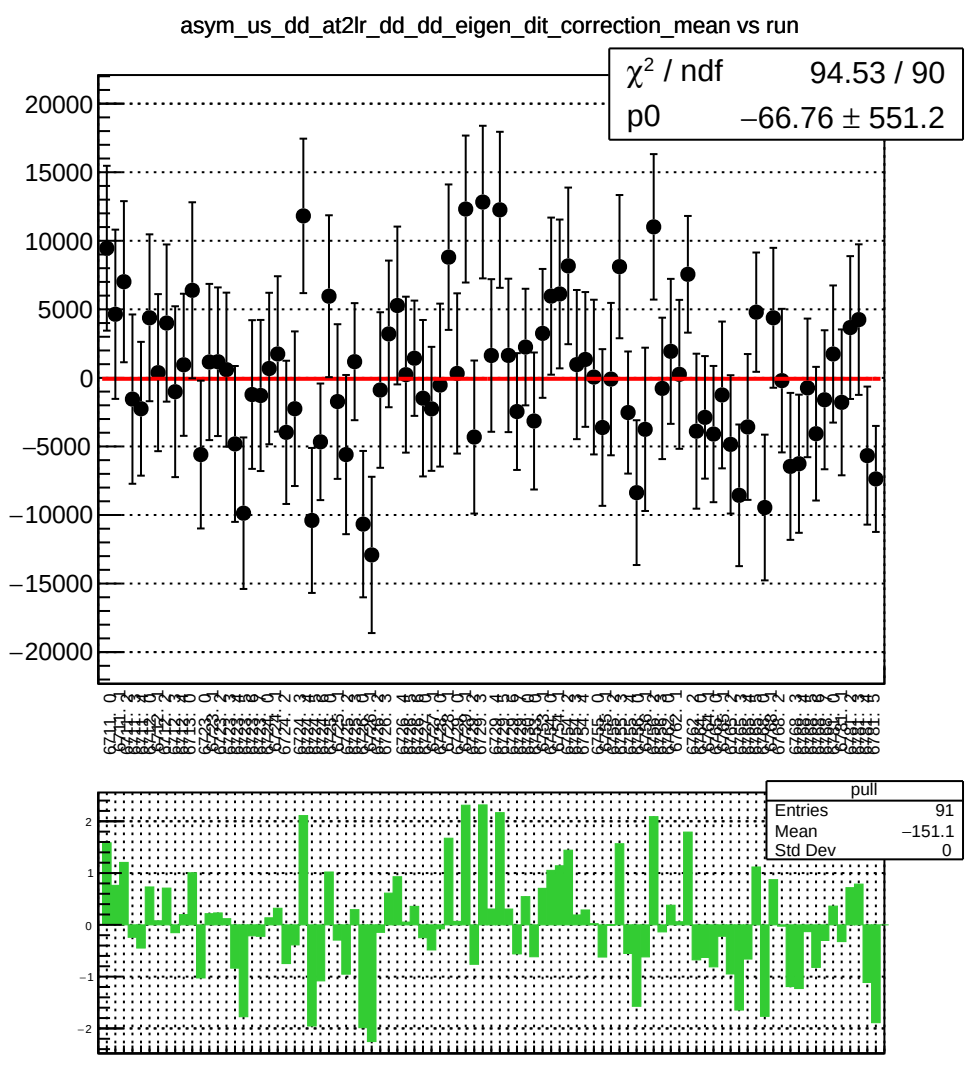

pull1D
Entries 91
Mean 0.0175
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

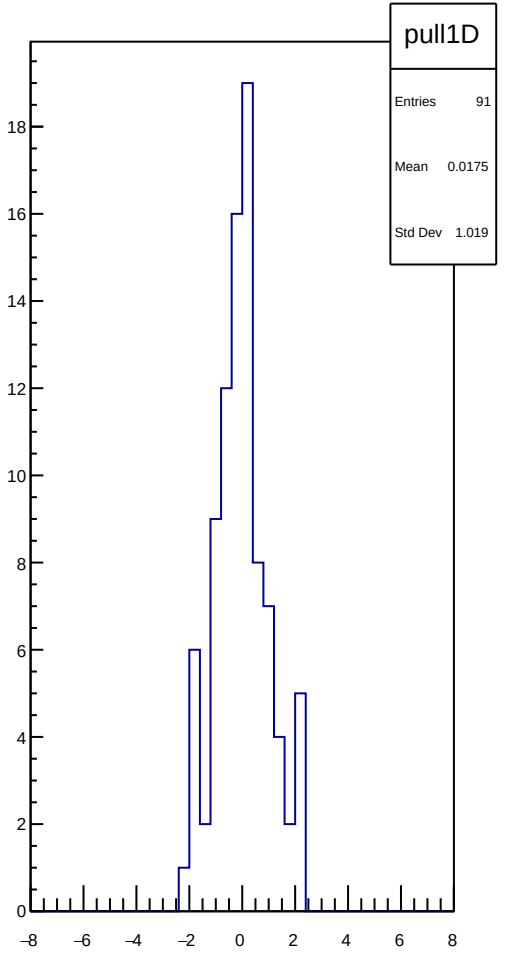

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 5047 / 90
p0 522.8 ± 0.3898
600
580
560
540
520
500
480
460

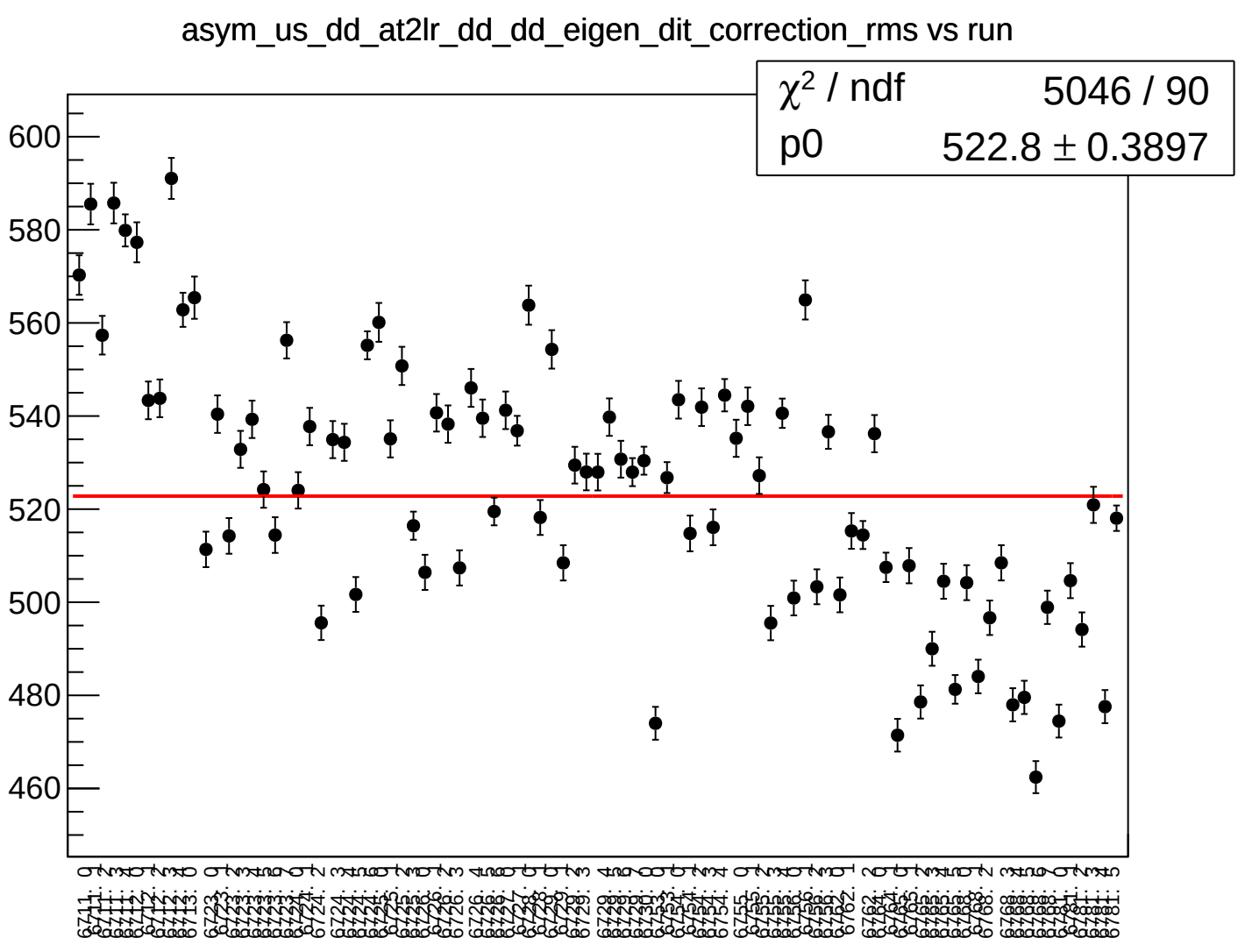

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 85.17 / 90
p0 198 ± 1679
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 216.1
Std Dev 0
2
1
0
−1
−2
−3

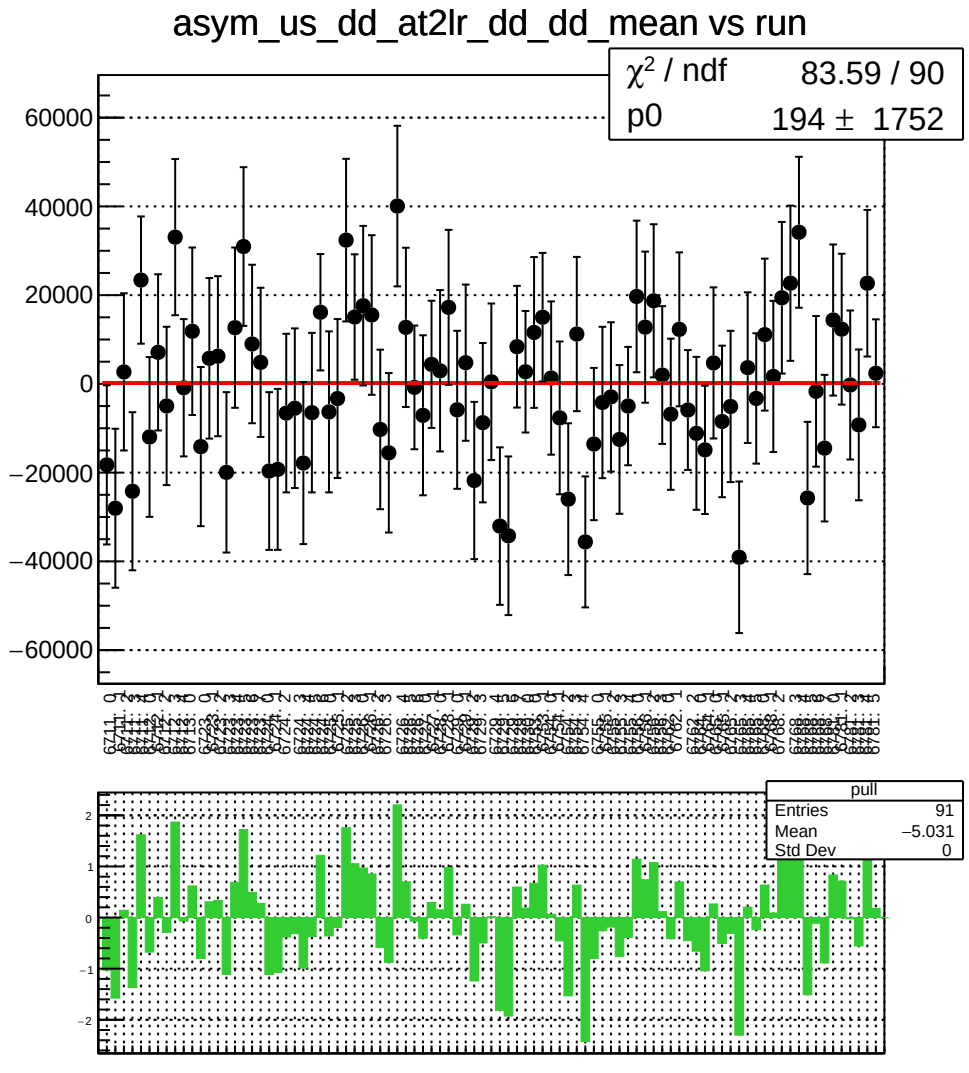

pull1D
Entries 91
Mean −0.00443
Std Dev 0.9674
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

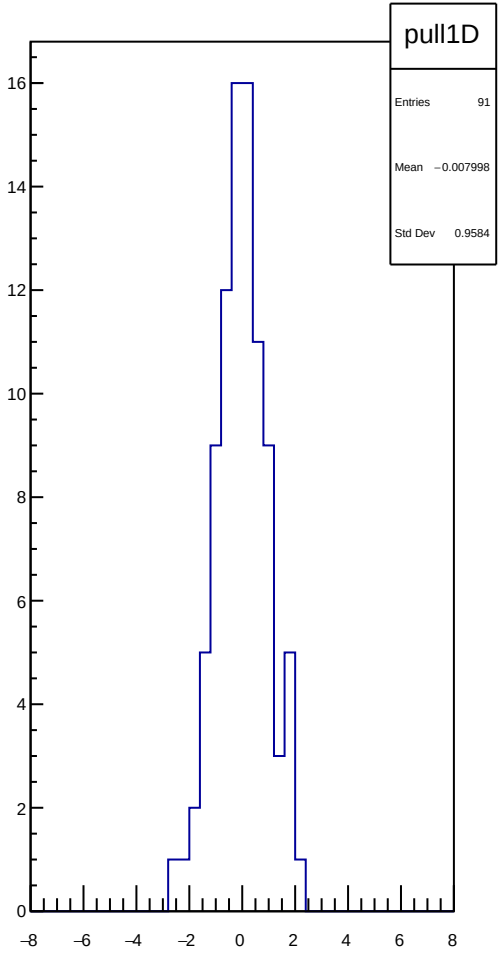

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1442 / 90
p0 1594 ± 1.187
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500

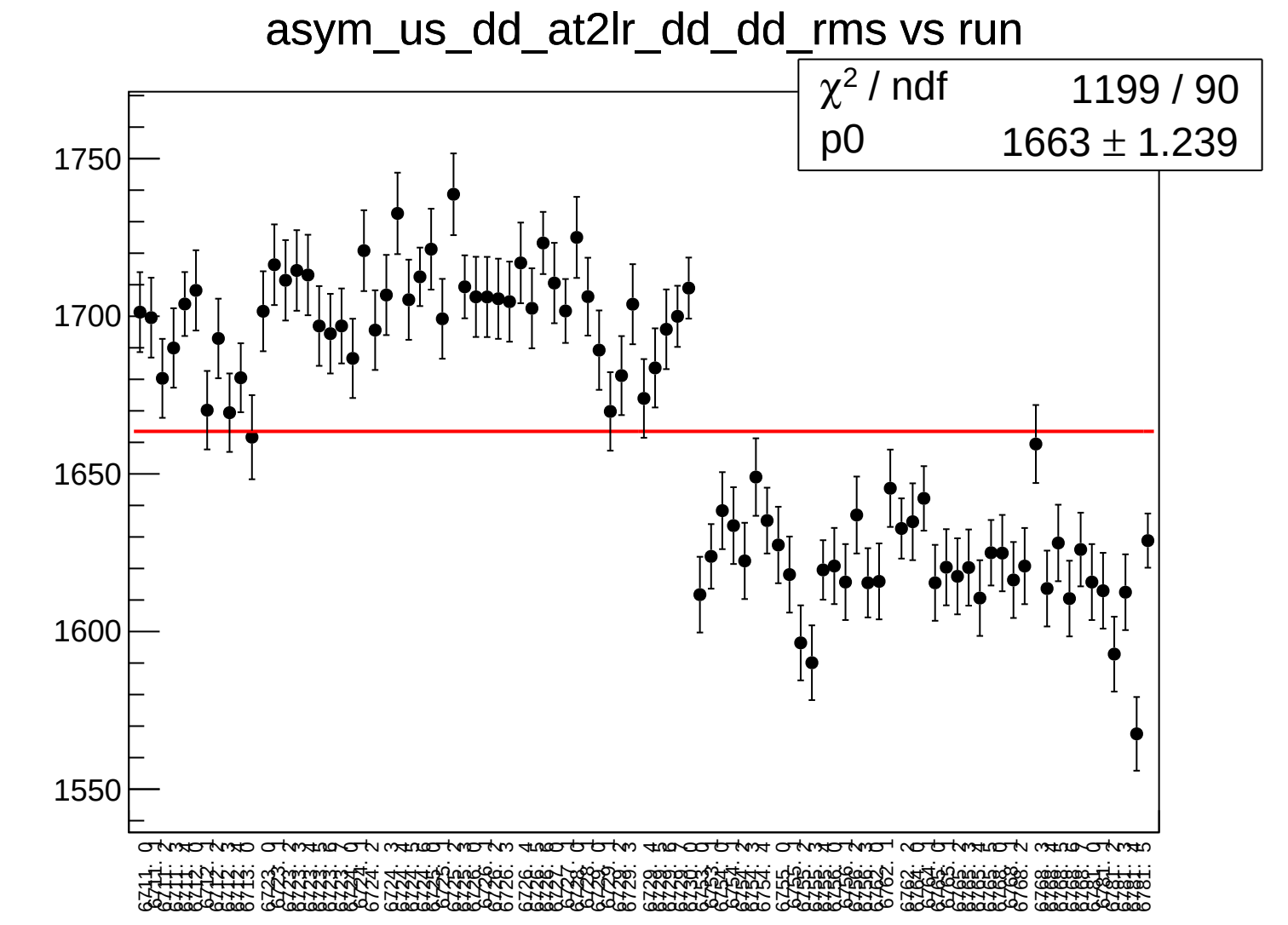

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.53 / 90
p0 −66.76 ± 551.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 91
Mean −151.1
Std Dev 0
2
1
0
−1
−2

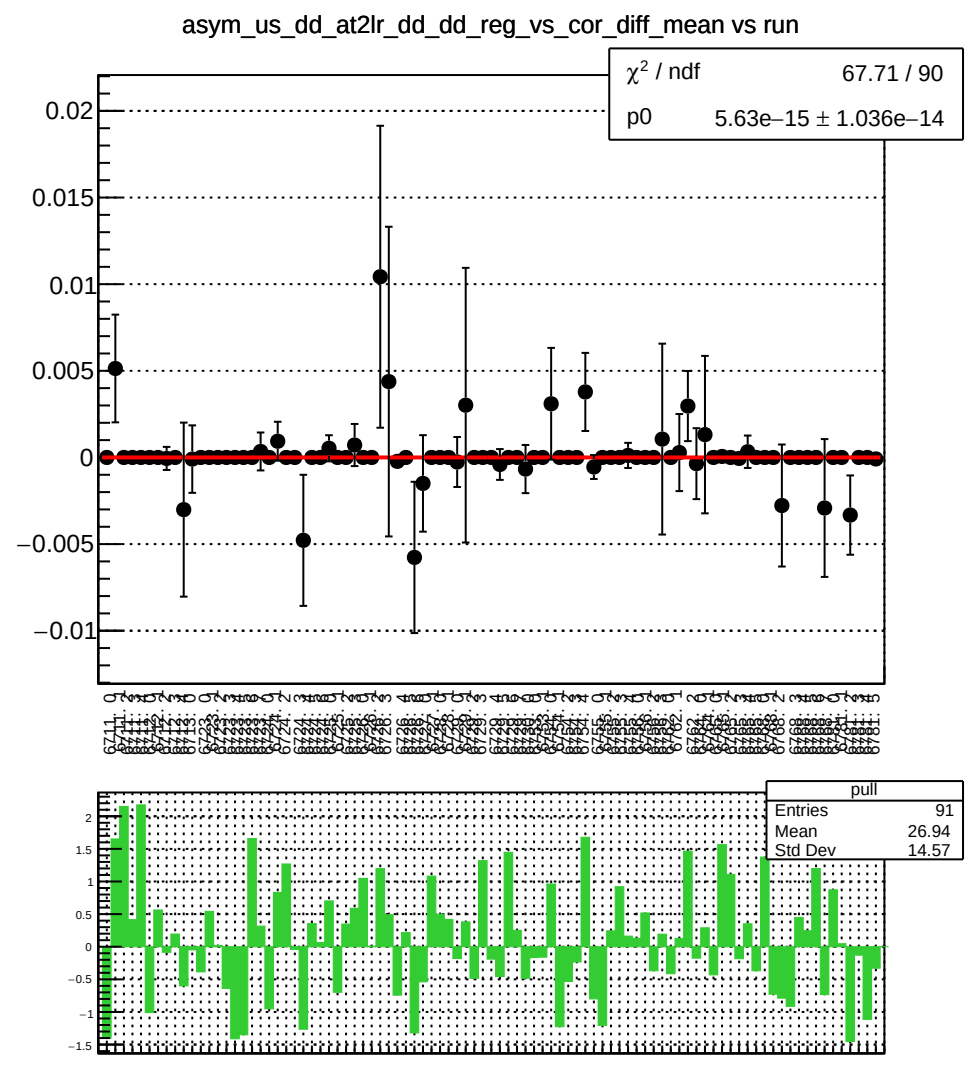

pull1D
Entries 91
Mean 0.0175
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

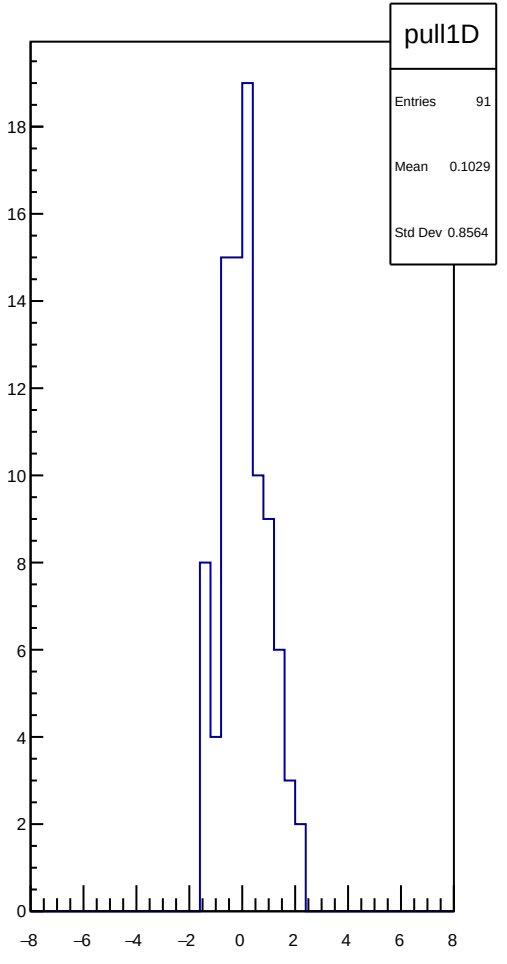

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5046 / 90
p0 522.8 ± 0.3897
600
580
560
540
520
500
480
460

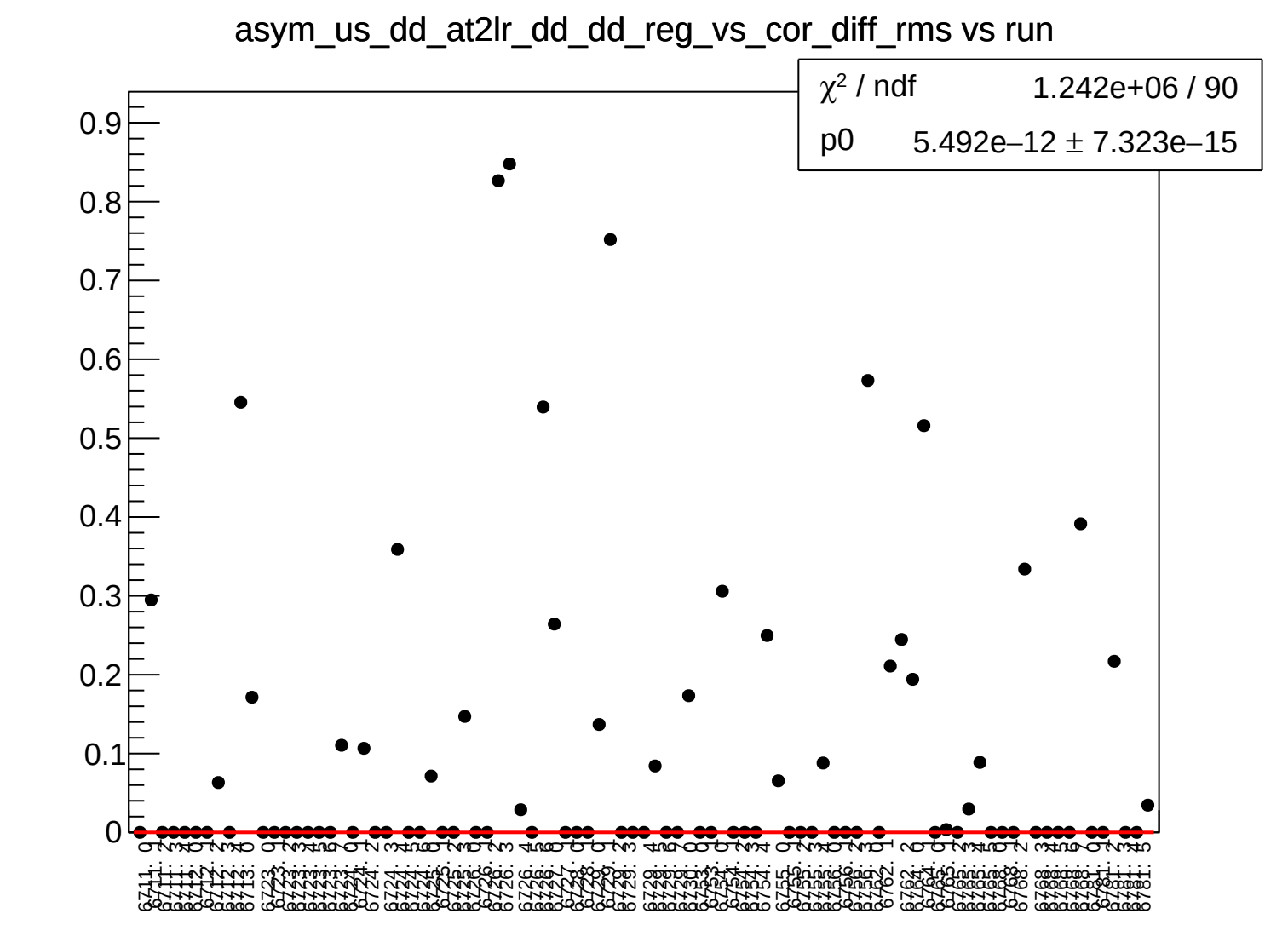

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 83.59 / 90
p0 194 ± 1752
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −5.031
Std Dev 0
2
1
0
−1
−2

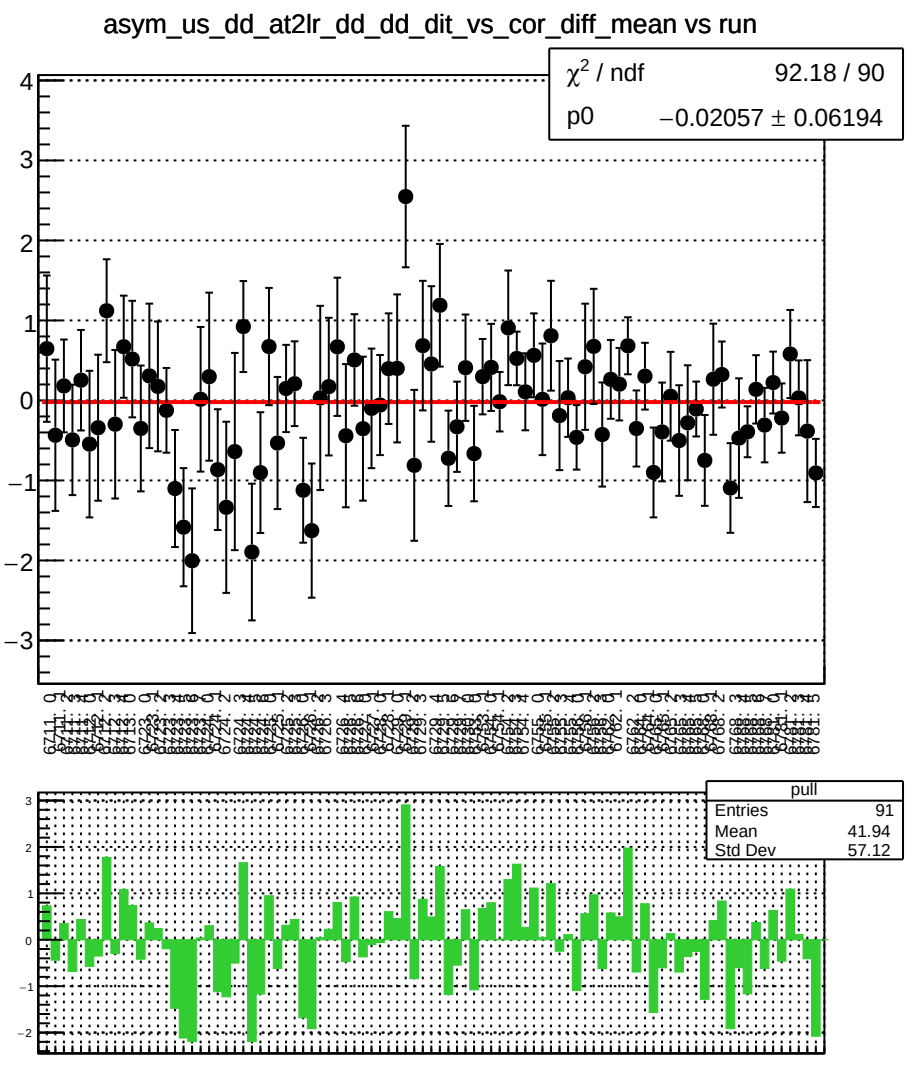

pull1D
Entries 91
Mean −0.007998
Std Dev 0.9584
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

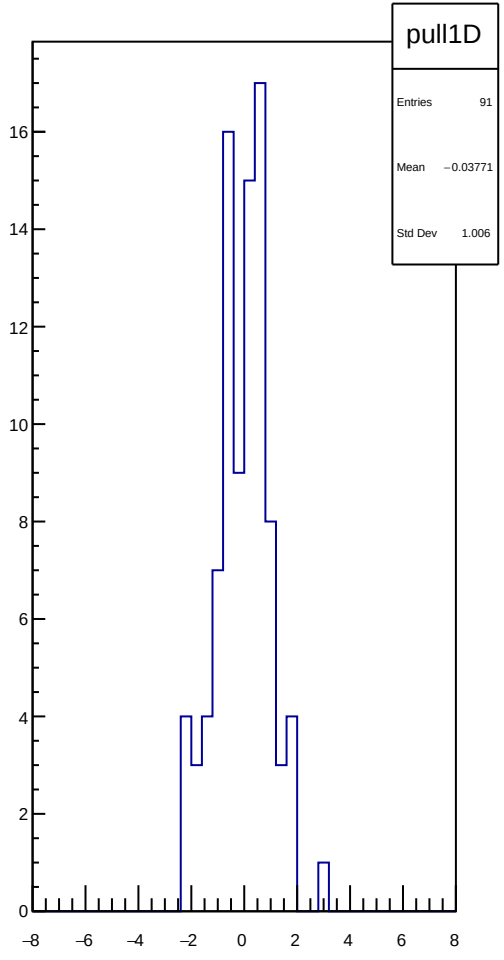

asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 1199 / 90
p0 1663 ± 1.239
1750
1700
1650
1600
1550

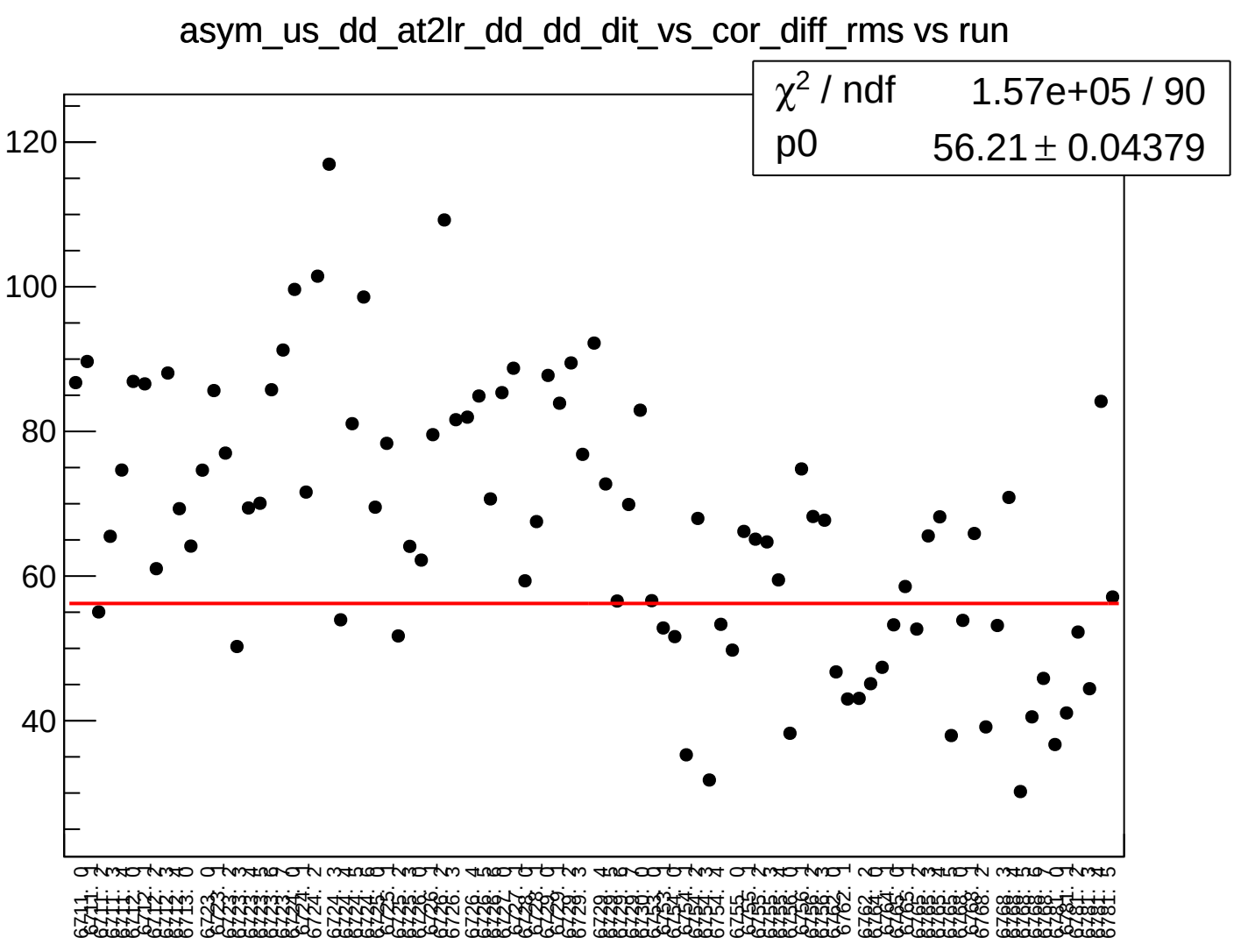

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 67.71 / 90
p0 5.63e−15 ± 1.036e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 91
Mean 26.94
Std Dev 14.57
2
1.5
1
0.5
0
−0.5
−1
−1.5

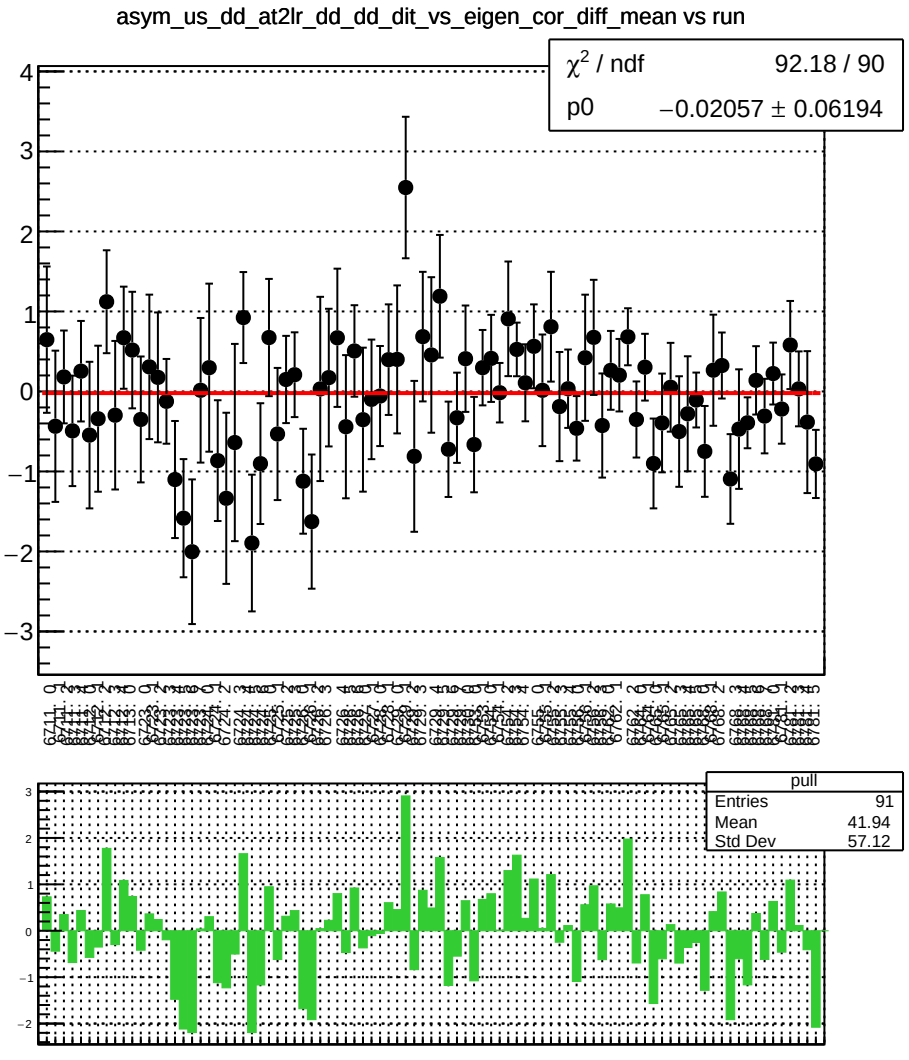

pull1D
Entries 91
Mean 0.1029
Std Dev 0.8564
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

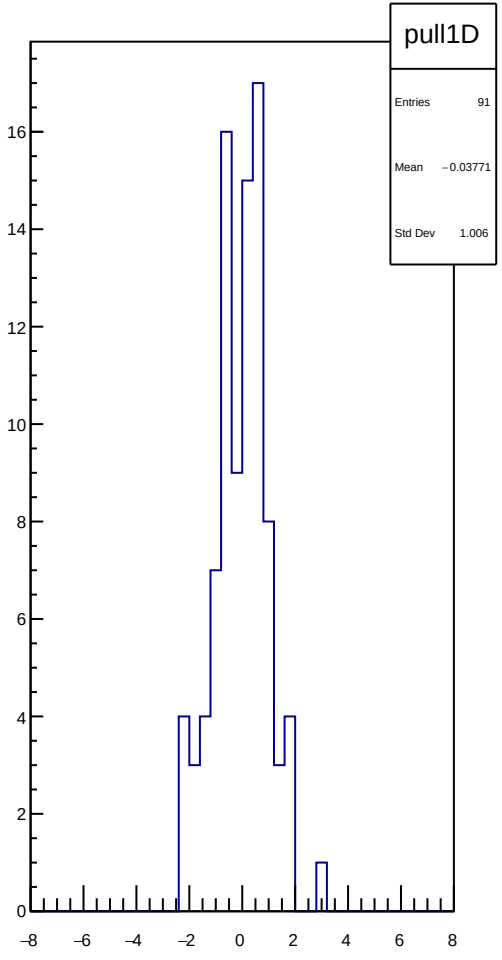

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.242e+06 / 90
p0 5.492e−12 ± 7.323e−15
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

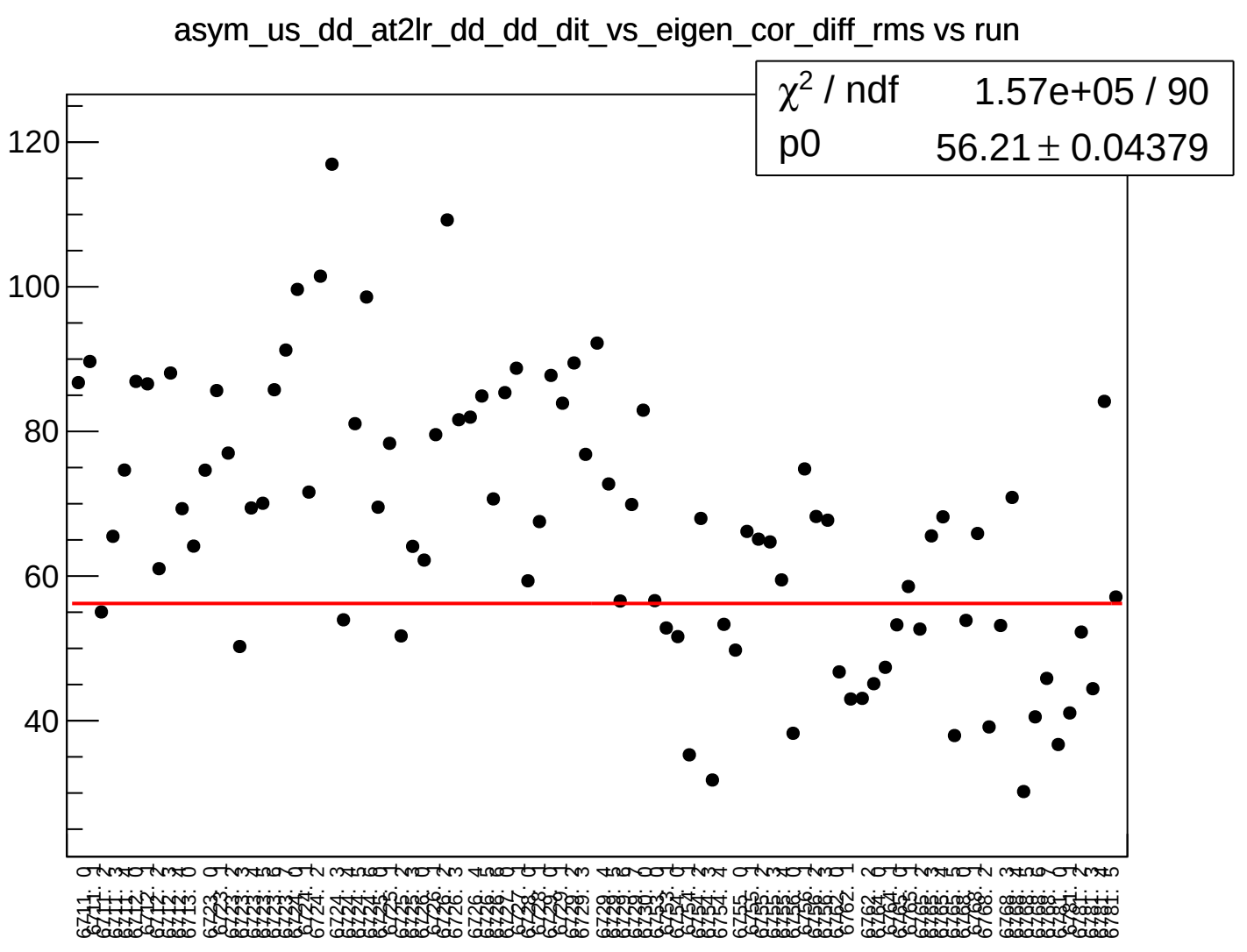

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.18 / 90
p0 −0.02057 ± 0.06194
pull
Entries 91
Mean 41.94
Std Dev 57.12

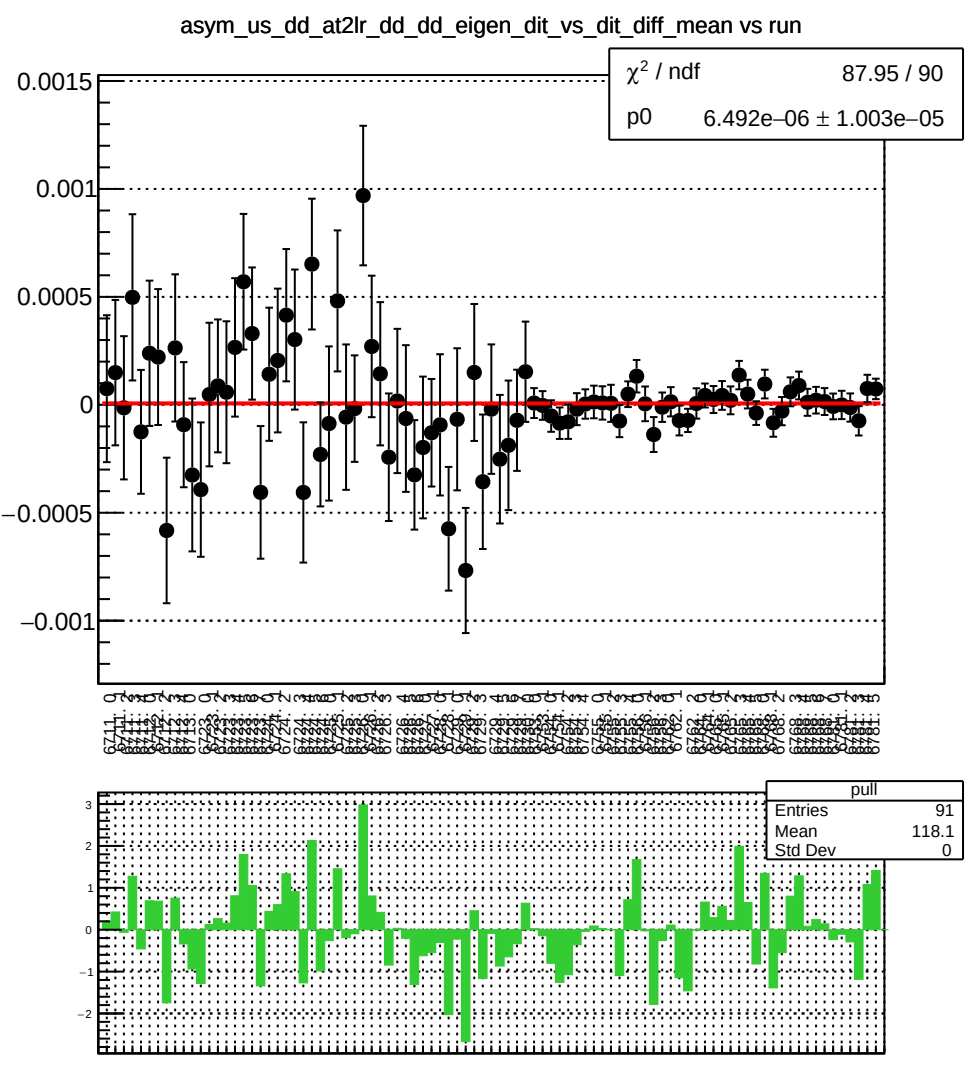

pull1D
Entries 91
Mean −0.03771
Std Dev 1.006

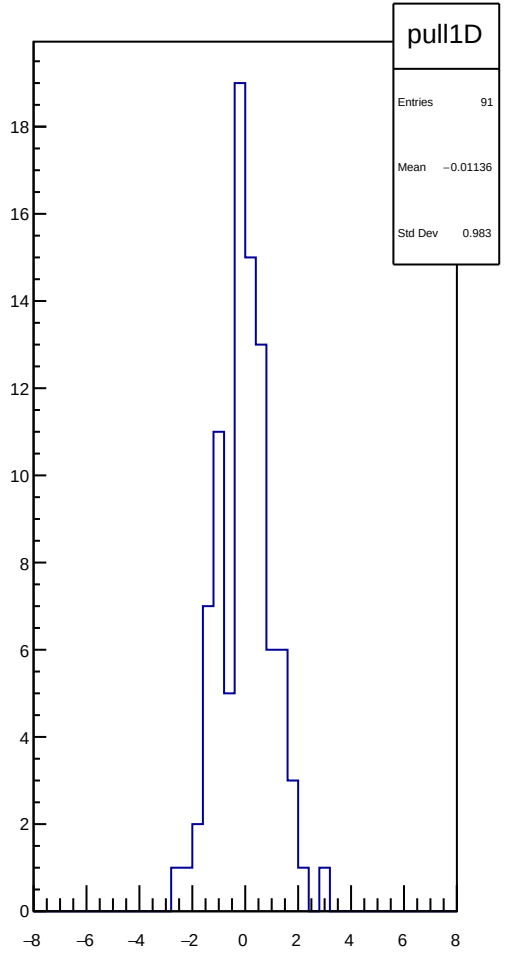

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.57e+05 / 90
p0 56.21 ± 0.04379
120
100
80
60
40

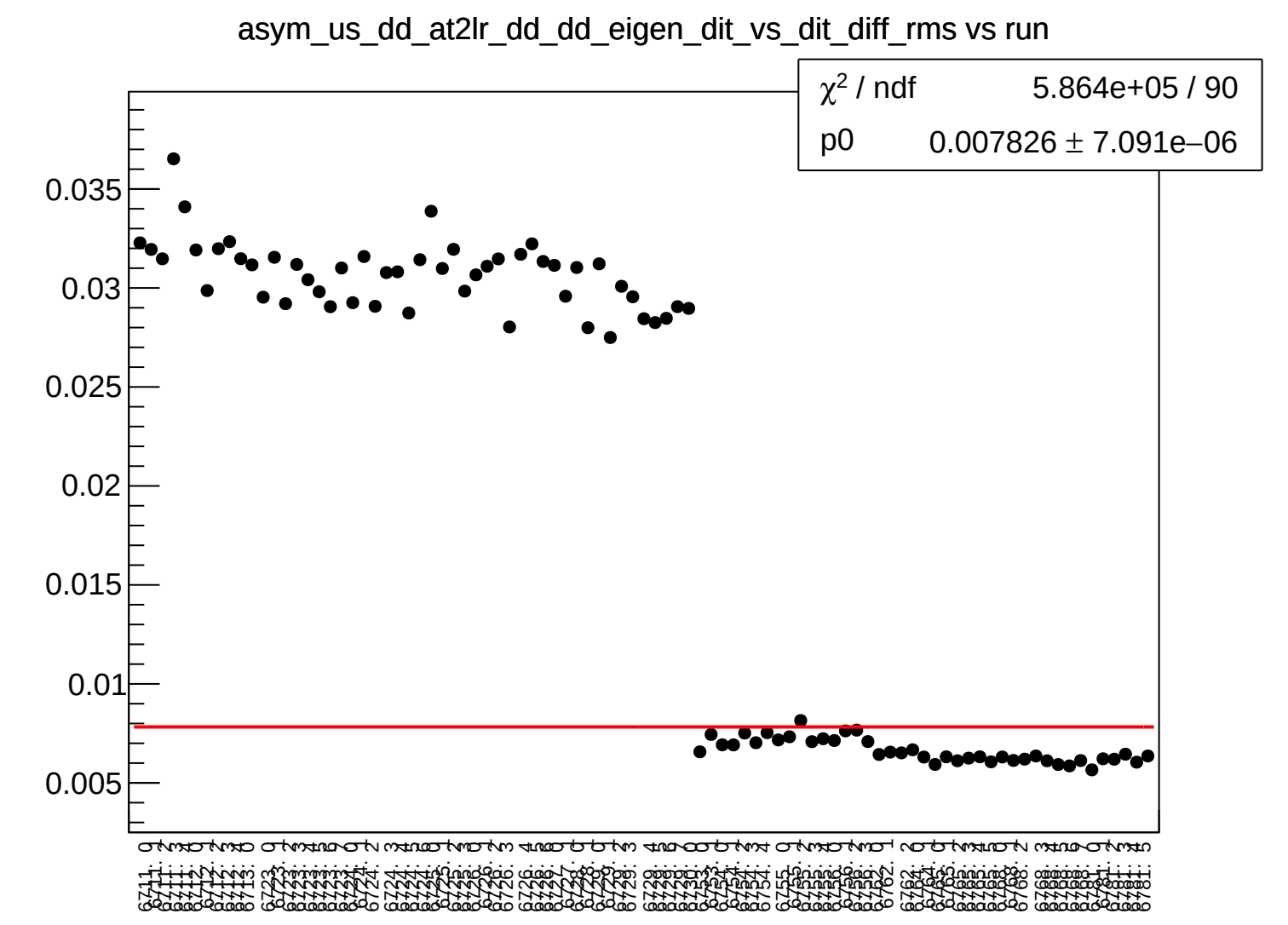

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.18 / 90
p0 −0.02057 ± 0.06194
pull
Entries 91
Mean 41.94
Std Dev 57.12

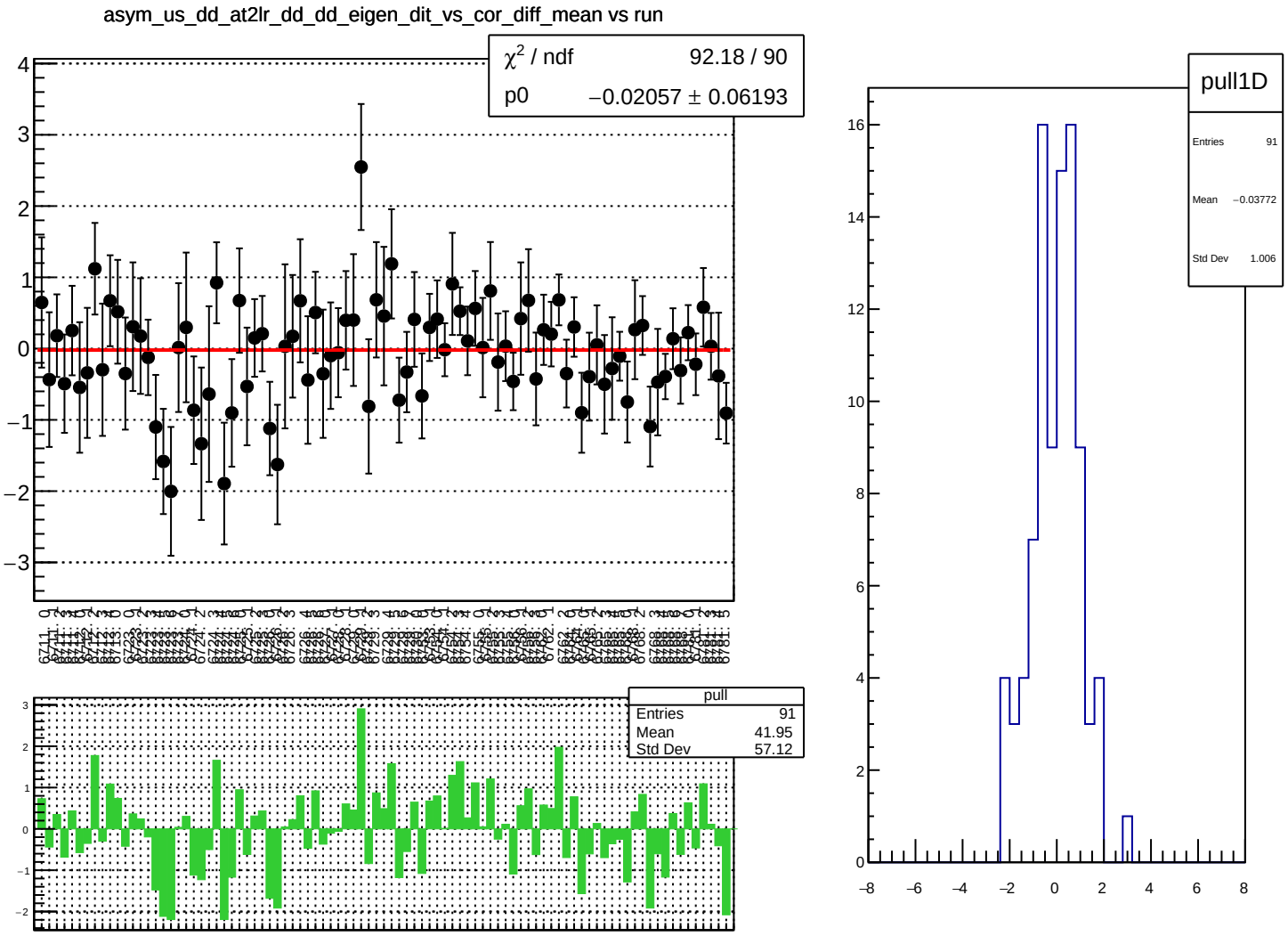

pull1D
Entries 91
Mean −0.03771
Std Dev 1.006

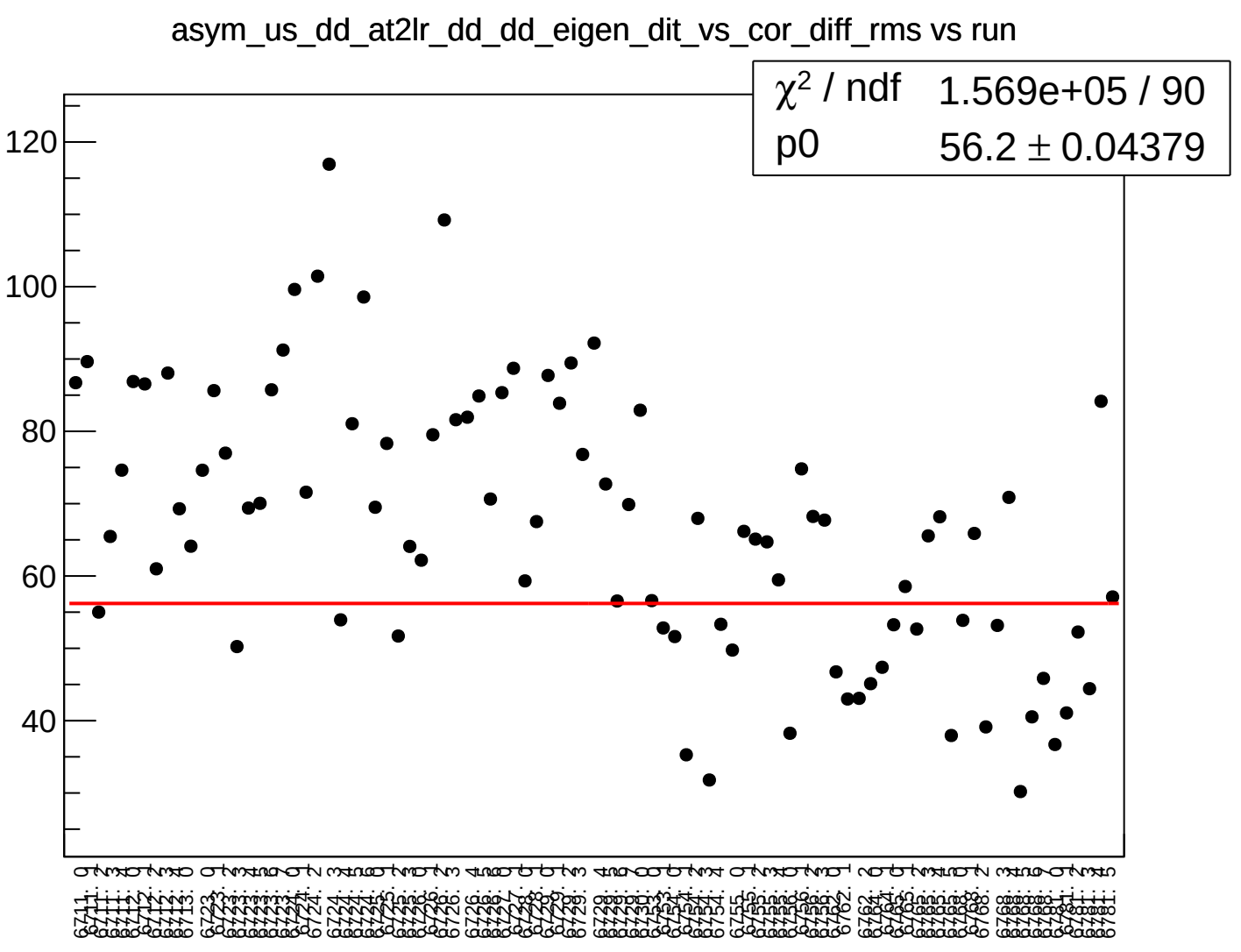

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.57e+05 / 90
p0 56.21 ± 0.04379
120
100
80
60
40

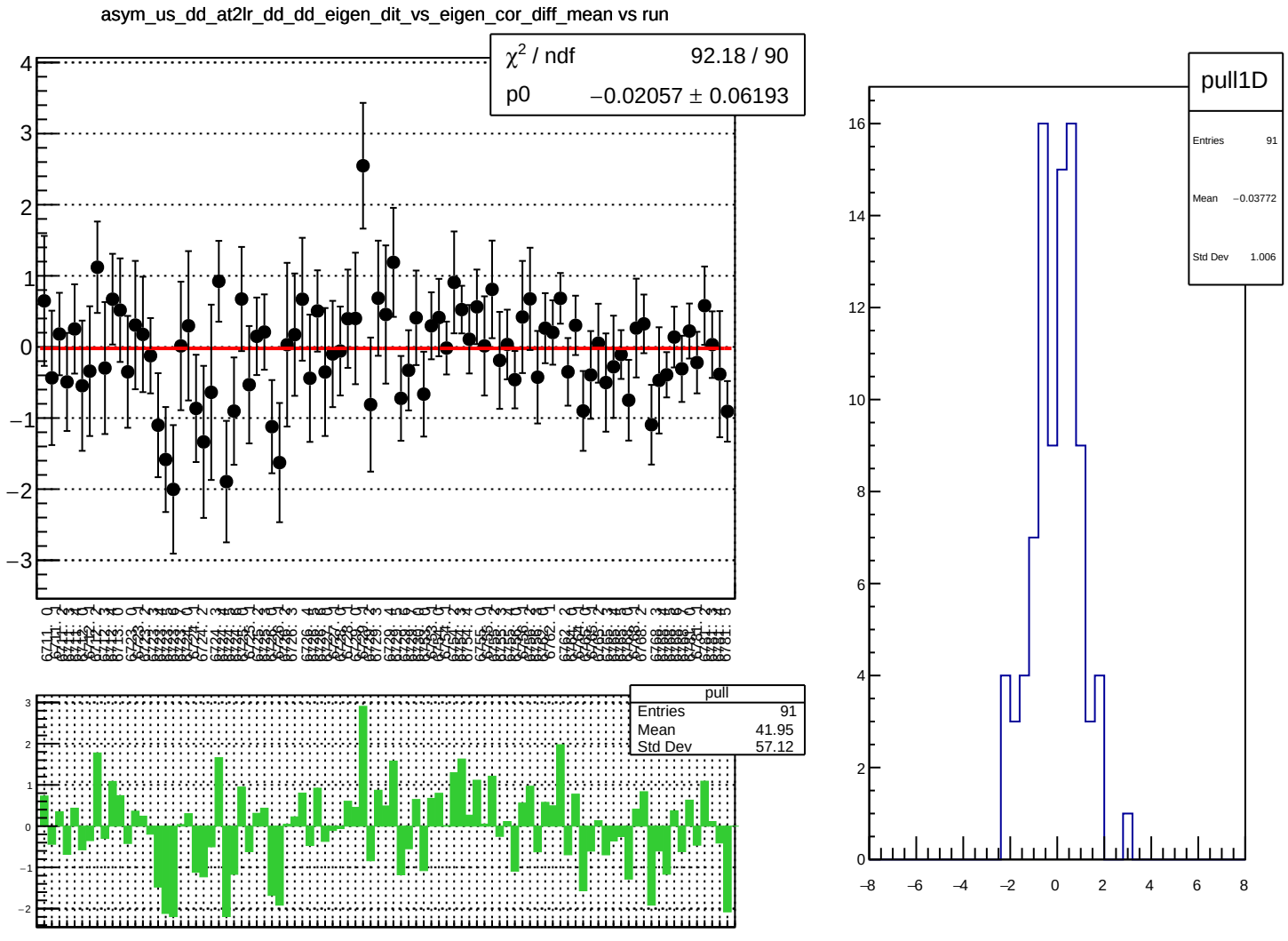

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 87.95 / 90
p0 6.492e−06 ± 1.003e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean 118.1
Std Dev 0
3
2
1
0
−1
−2

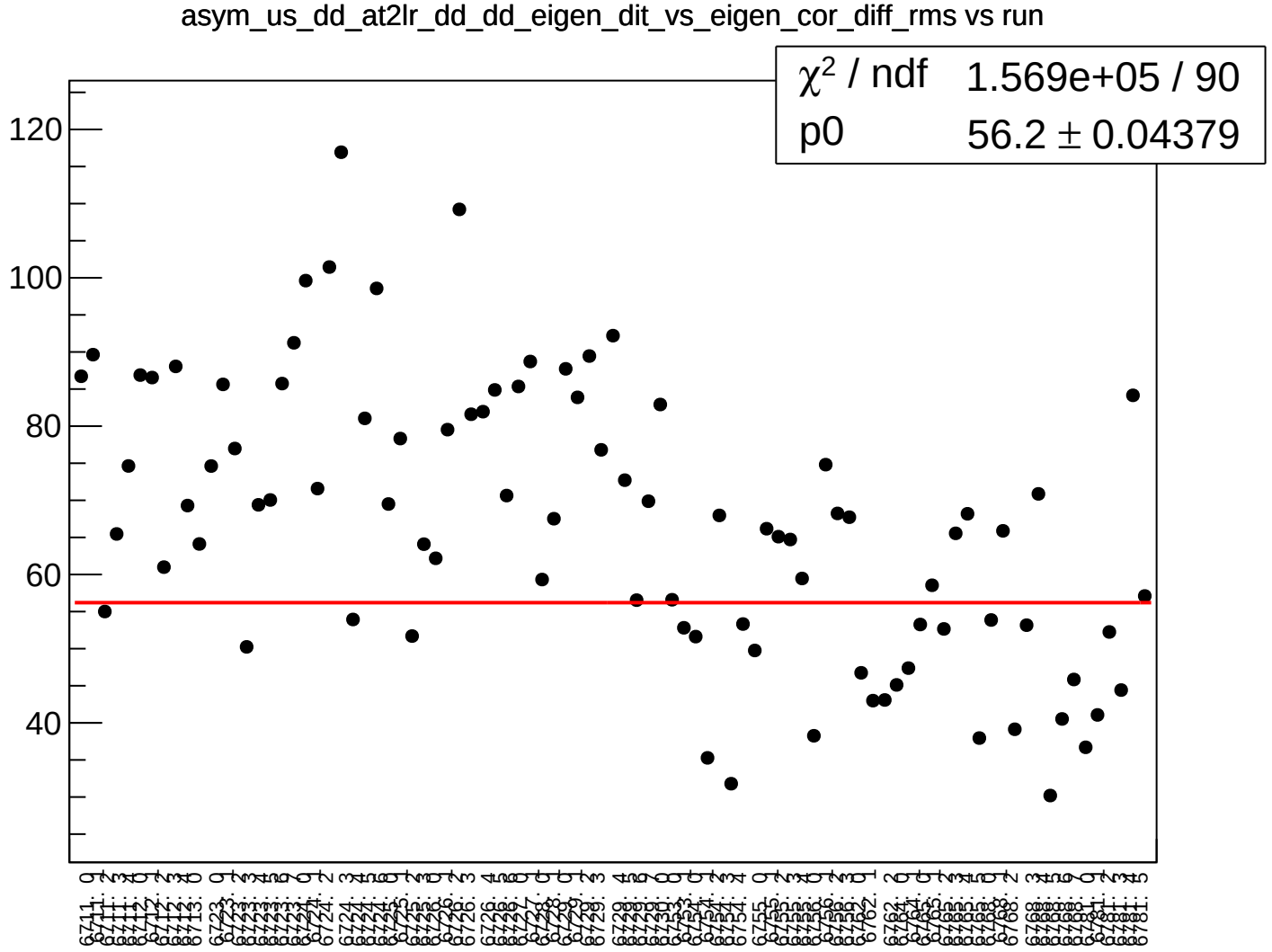

pull1D
Entries 91
Mean −0.01136
Std Dev 0.983
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

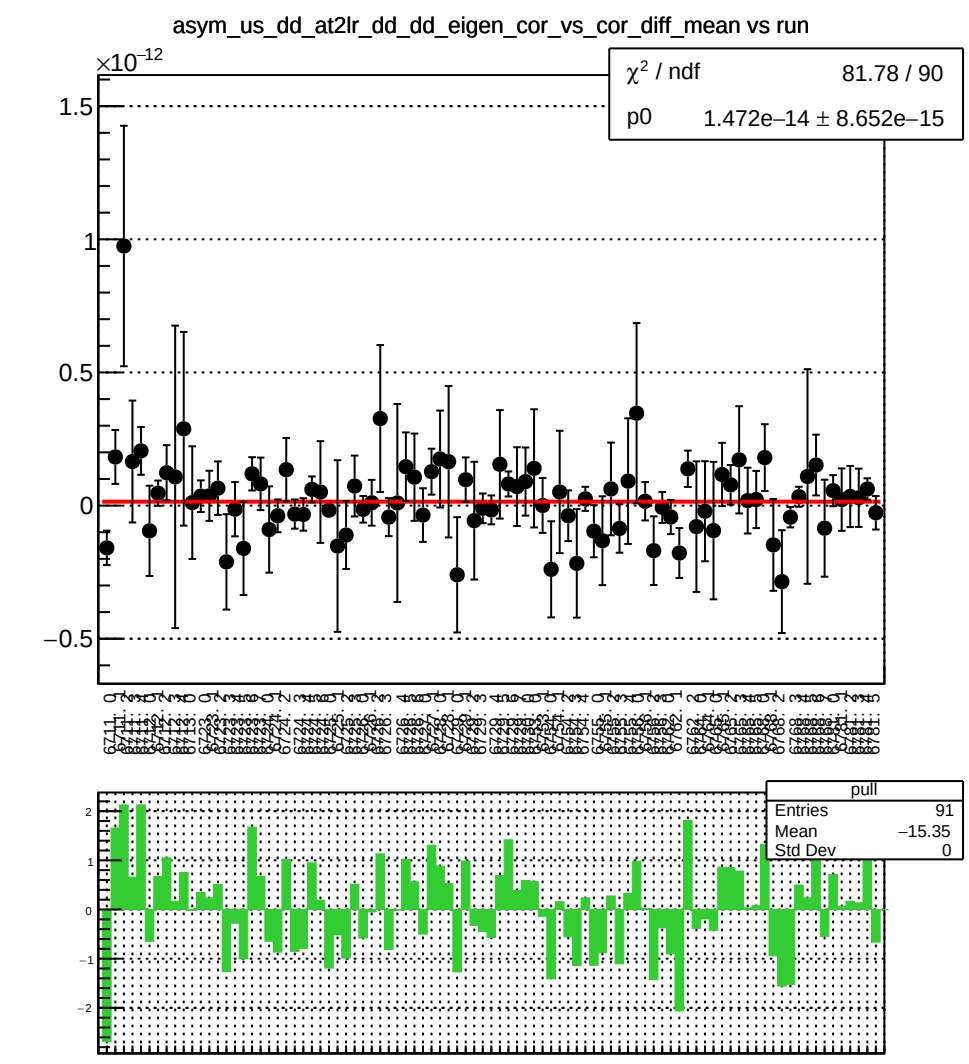

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.864e+05 / 90
p0 0.007826 ± 7.091e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

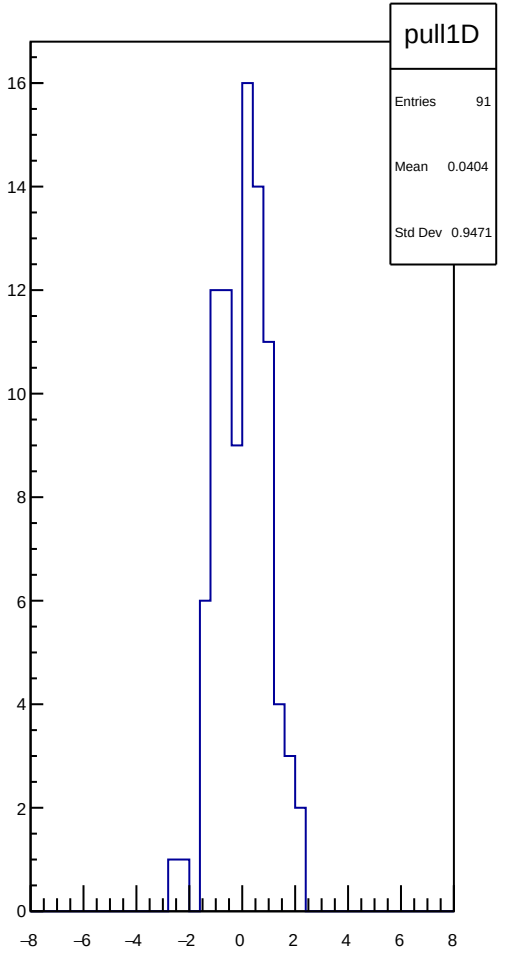

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.18 / 90
p0 −0.02057 ± 0.06193
pull
Entries 91
Mean 41.95
Std Dev 57.12
pull1D
Entries 91
Mean −0.03772
Std Dev 1.006

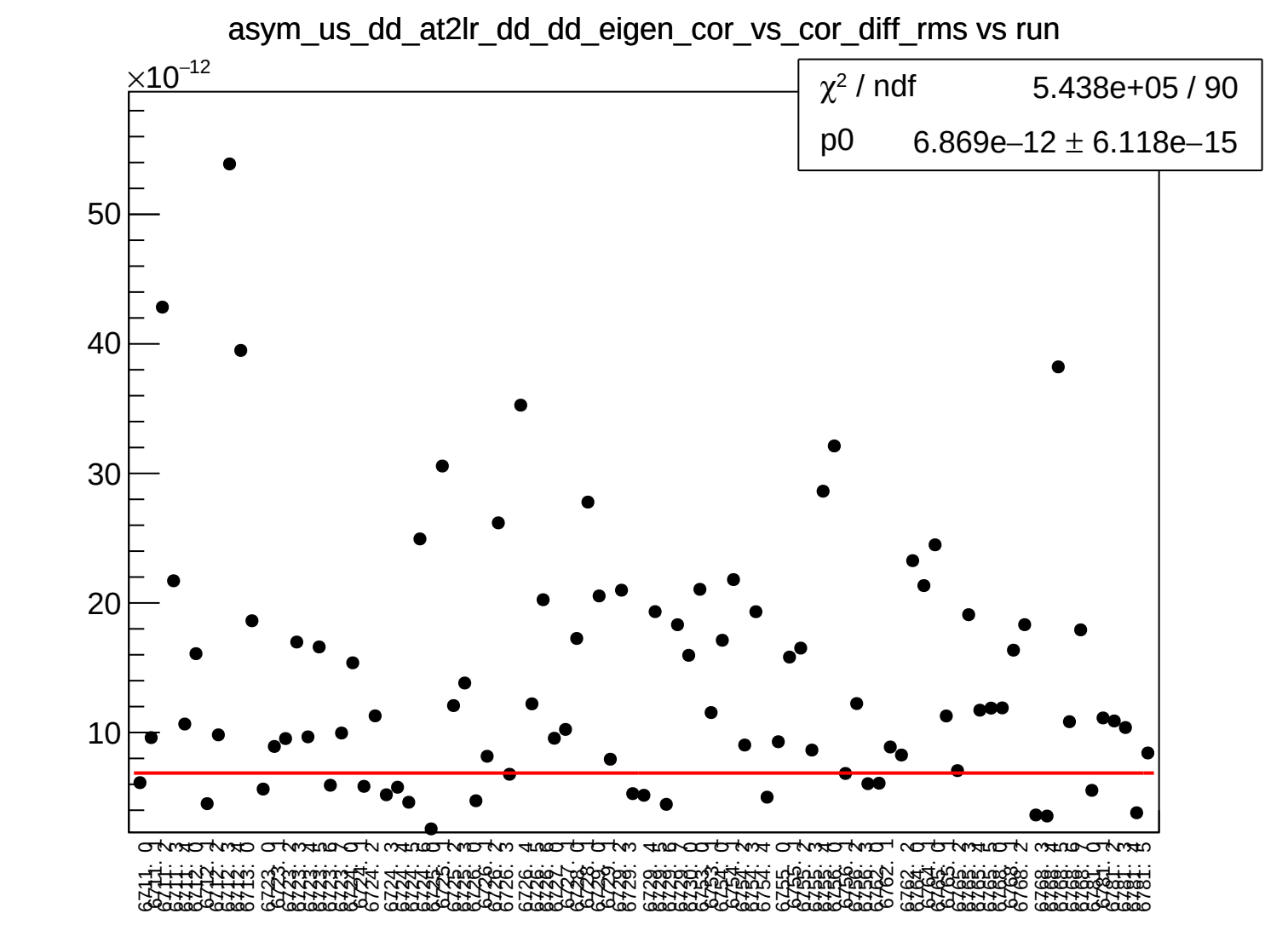

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.569e+05 / 90
p0 56.2 ± 0.04379
120
100
80
60
40

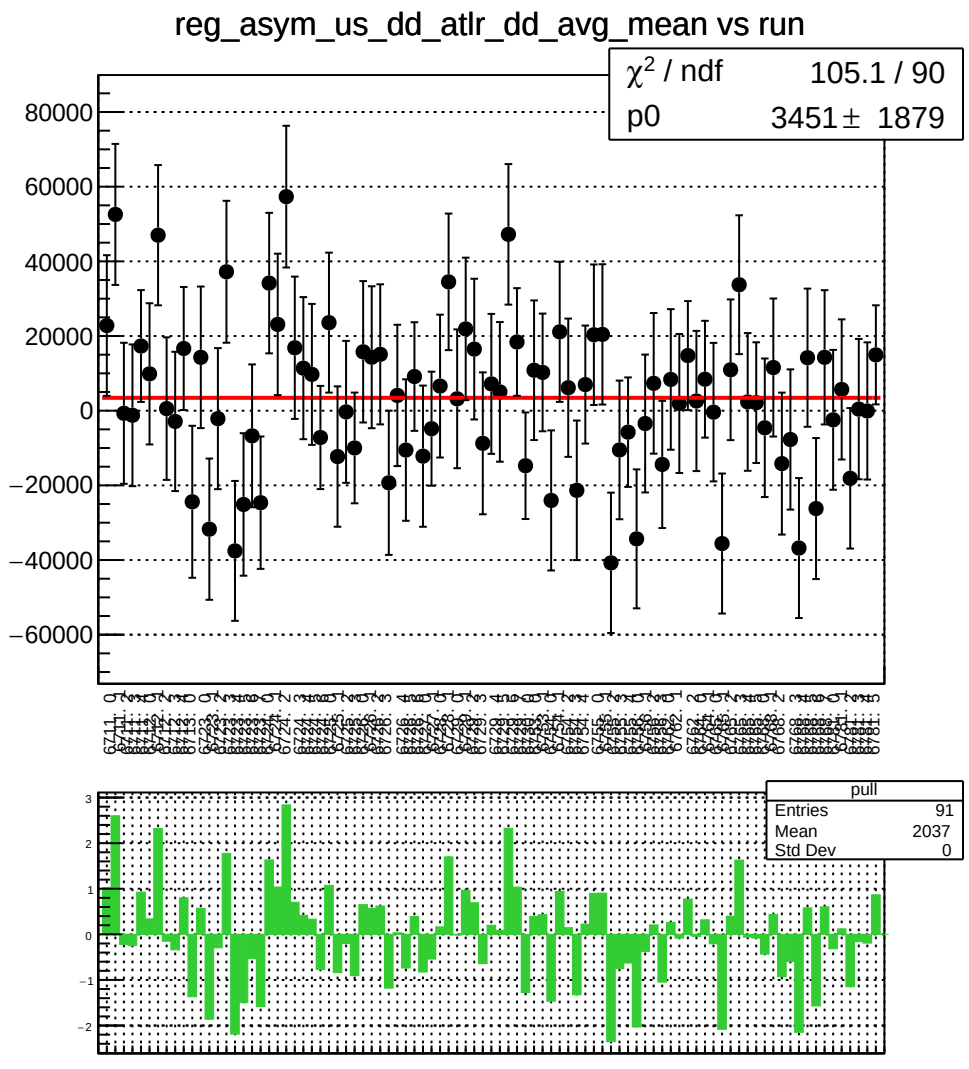

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.18 / 90
p0 −0.02057 ± 0.06193
pull
Entries 91
Mean 41.95
Std Dev 57.12
pull1D
Entries 91
Mean −0.03772
Std Dev 1.006

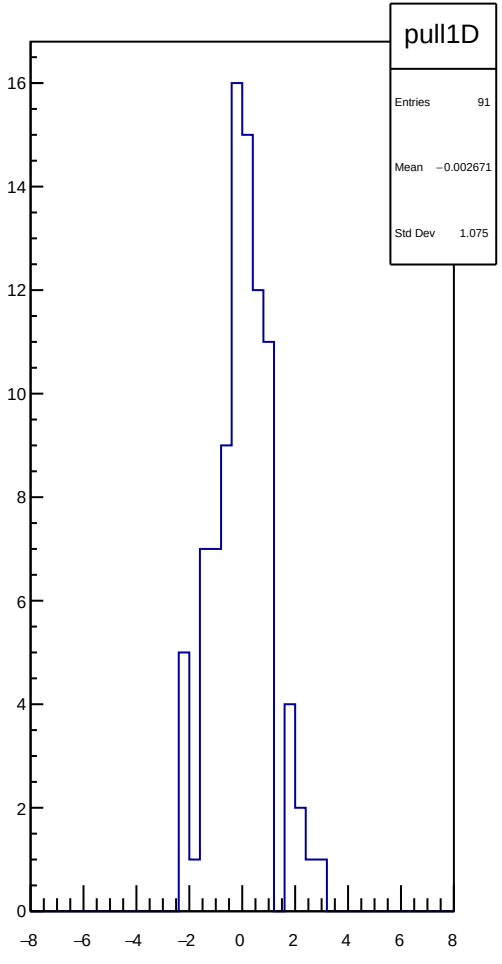

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.569e+05 / 90
p0 56.2 ± 0.04379
120
100
80
60
40

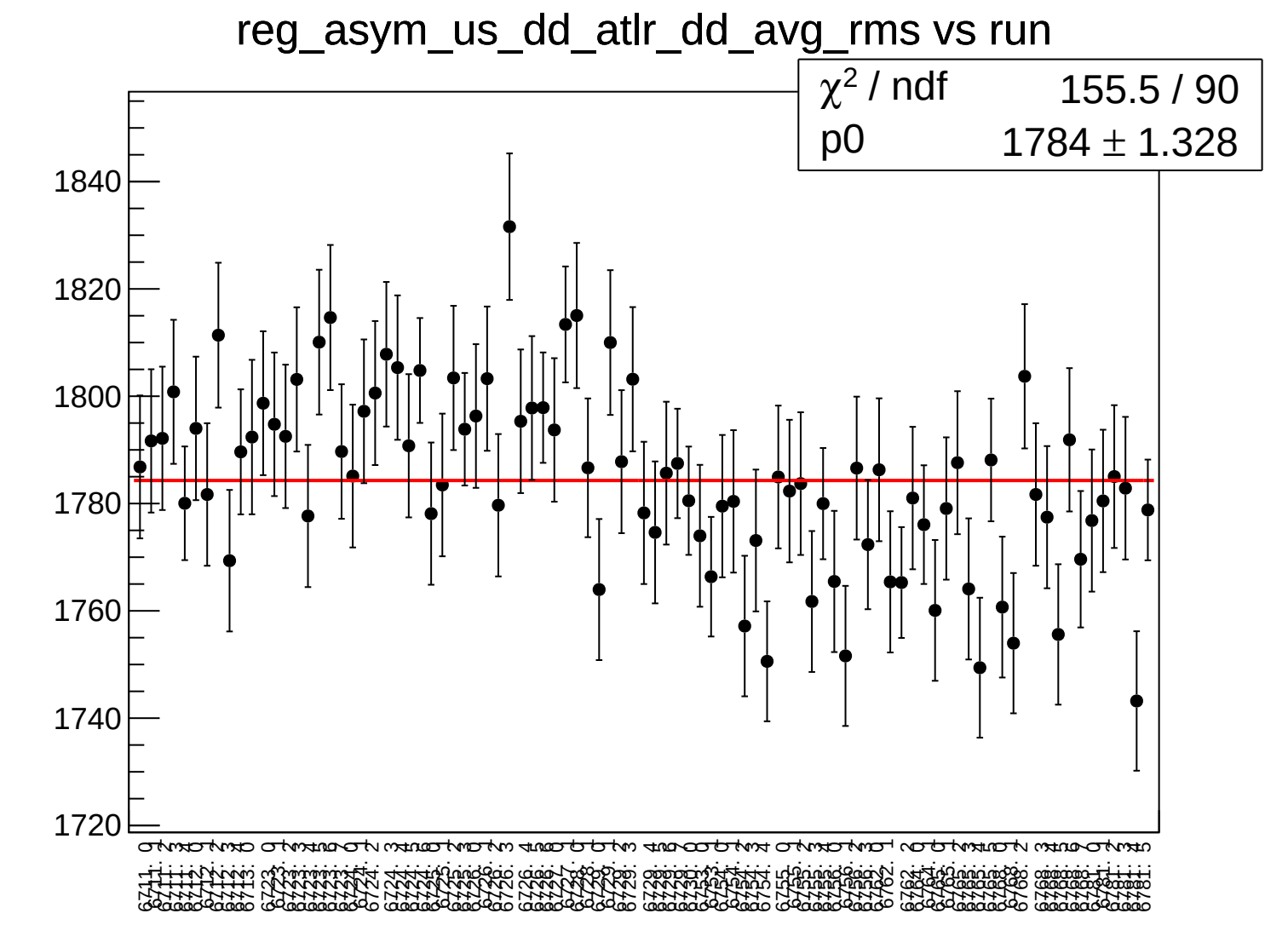

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.78 / 90
p0 1.472e−14 ± 8.652e−15
1.5
1
0.5
0
−0.5
pull
Entries 91
Mean −15.35
Std Dev 0
2
1
0
−1
−2

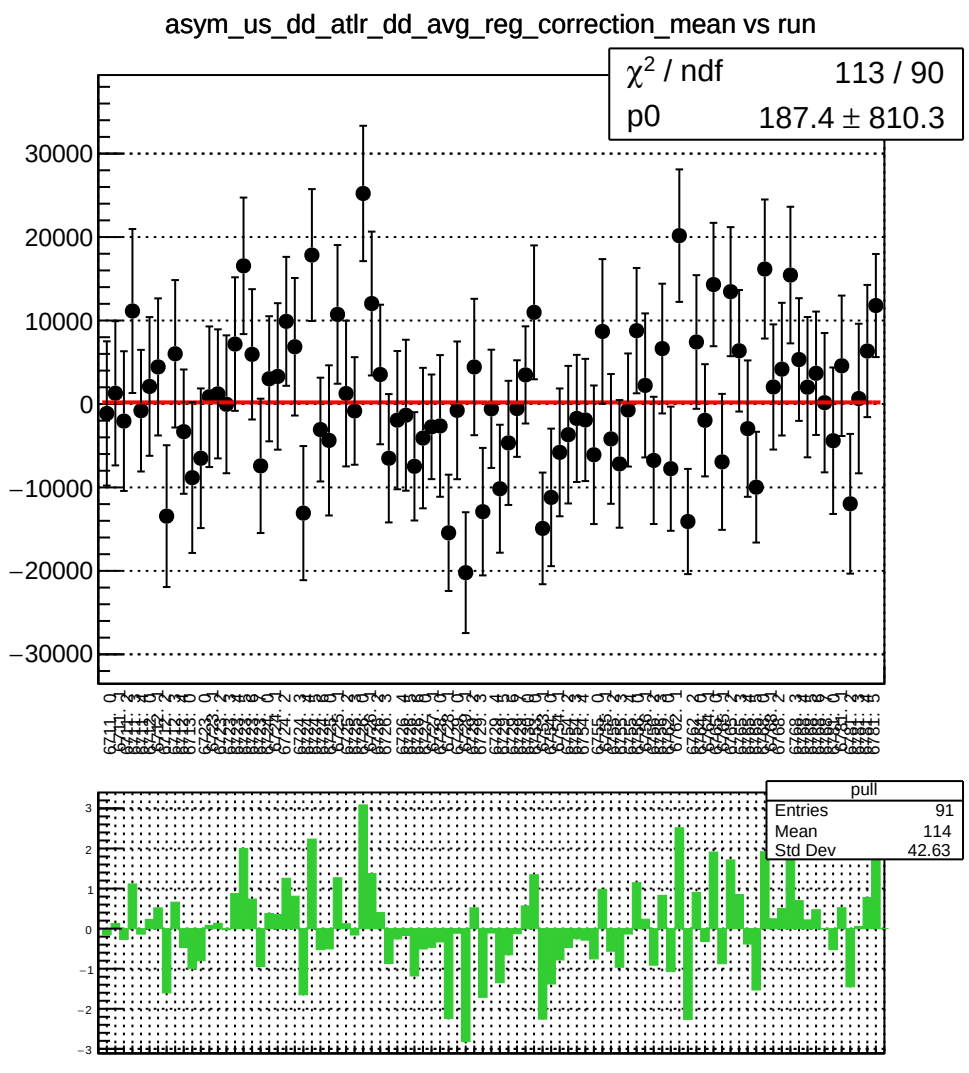

pull1D
Entries 91
Mean 0.0404
Std Dev 0.9471
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

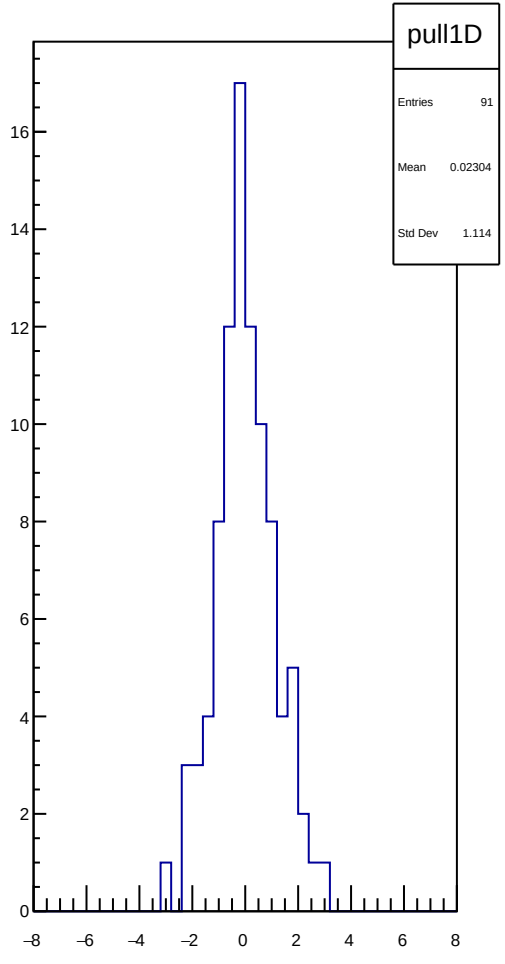

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.438e+05 / 90
p0 6.869e−12 ± 6.118e−15
50
40
30
20
10

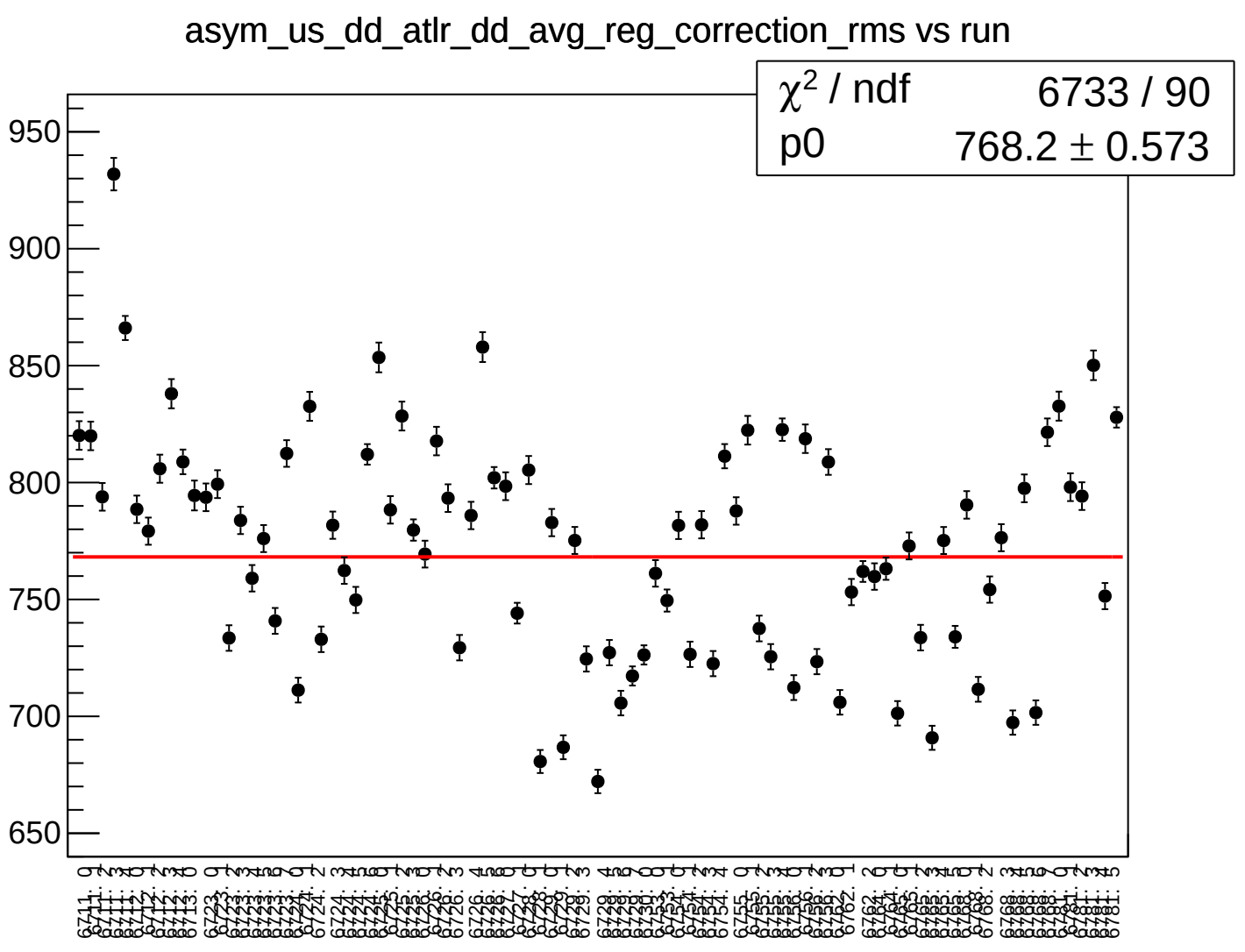

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 105.1 / 90
p0 3451 ± 1879
pull
Entries 91
Mean 2037
Std Dev 0

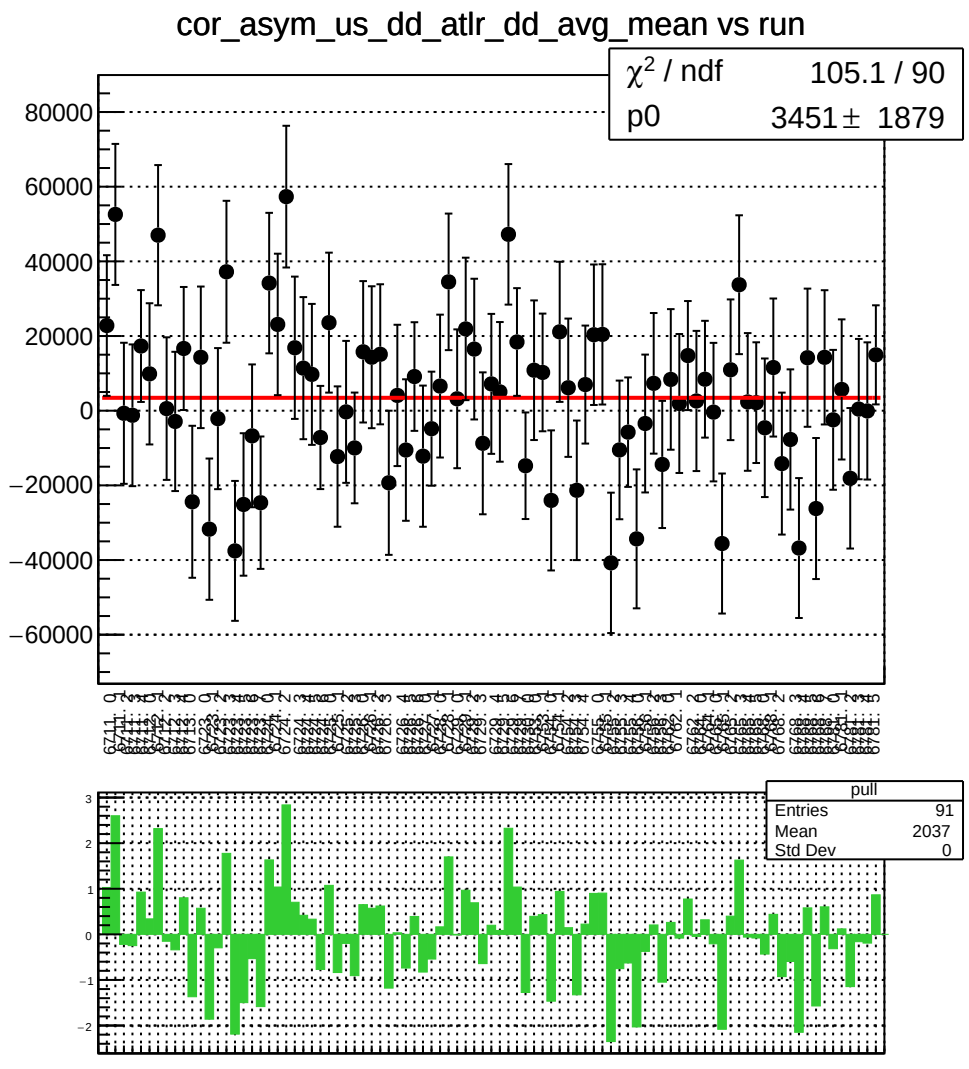

pull1D
Entries 91
Mean −0.002671
Std Dev 1.075

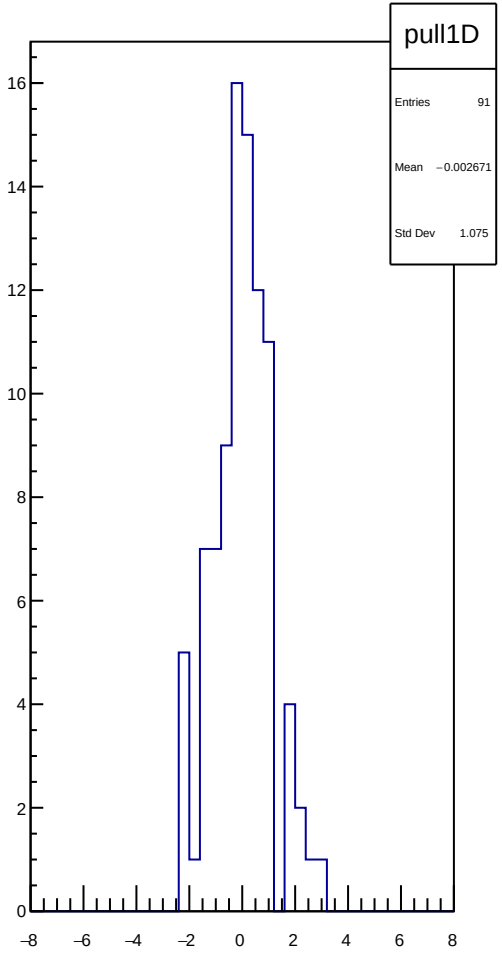

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 155.5 / 90
p0 1784 ± 1.328
1840
1820
1800
1780
1760
1740
1720

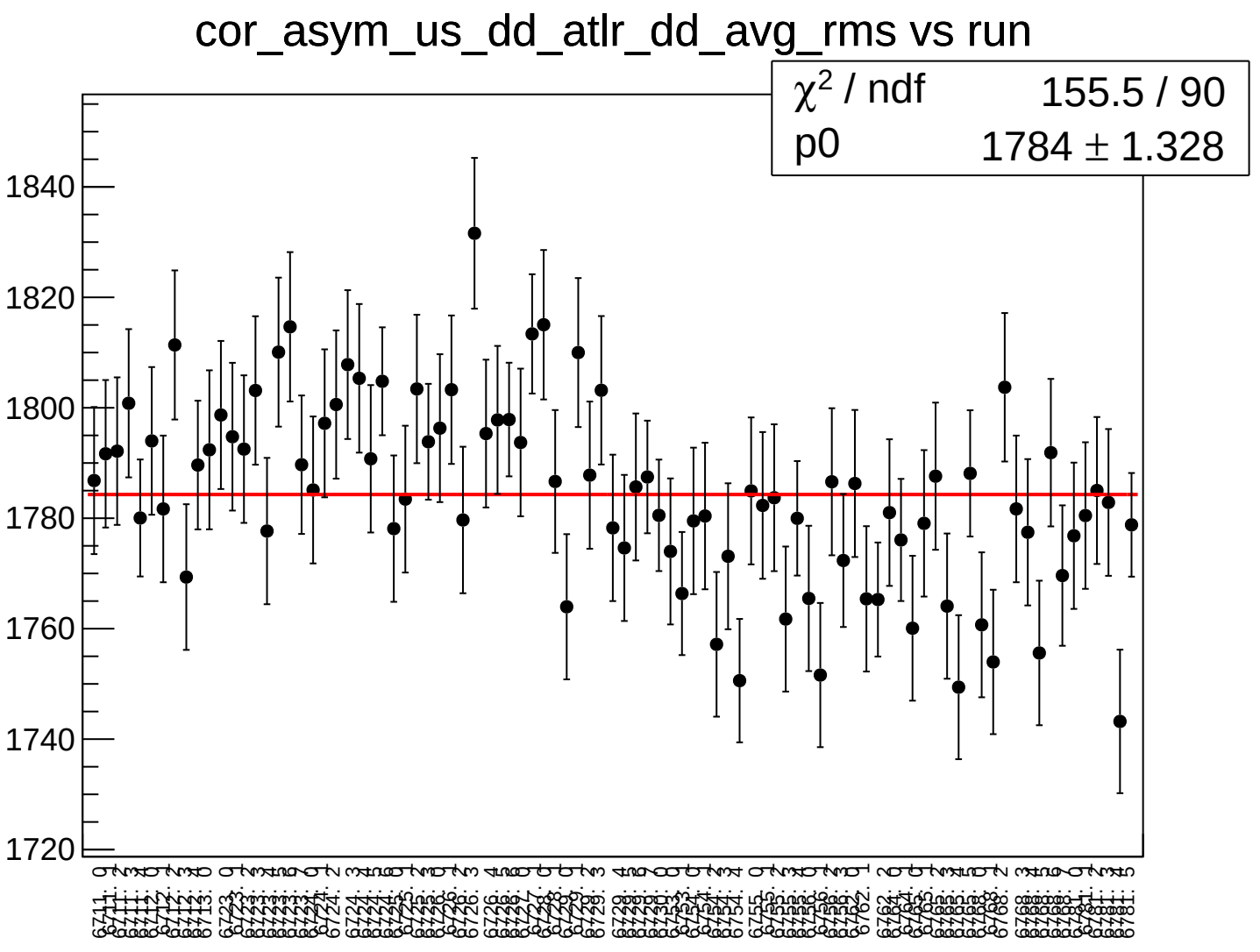

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 113 / 90
p0 187.4 ± 810.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 114
Std Dev 42.63
3
2
1
0
−1
−2
−3

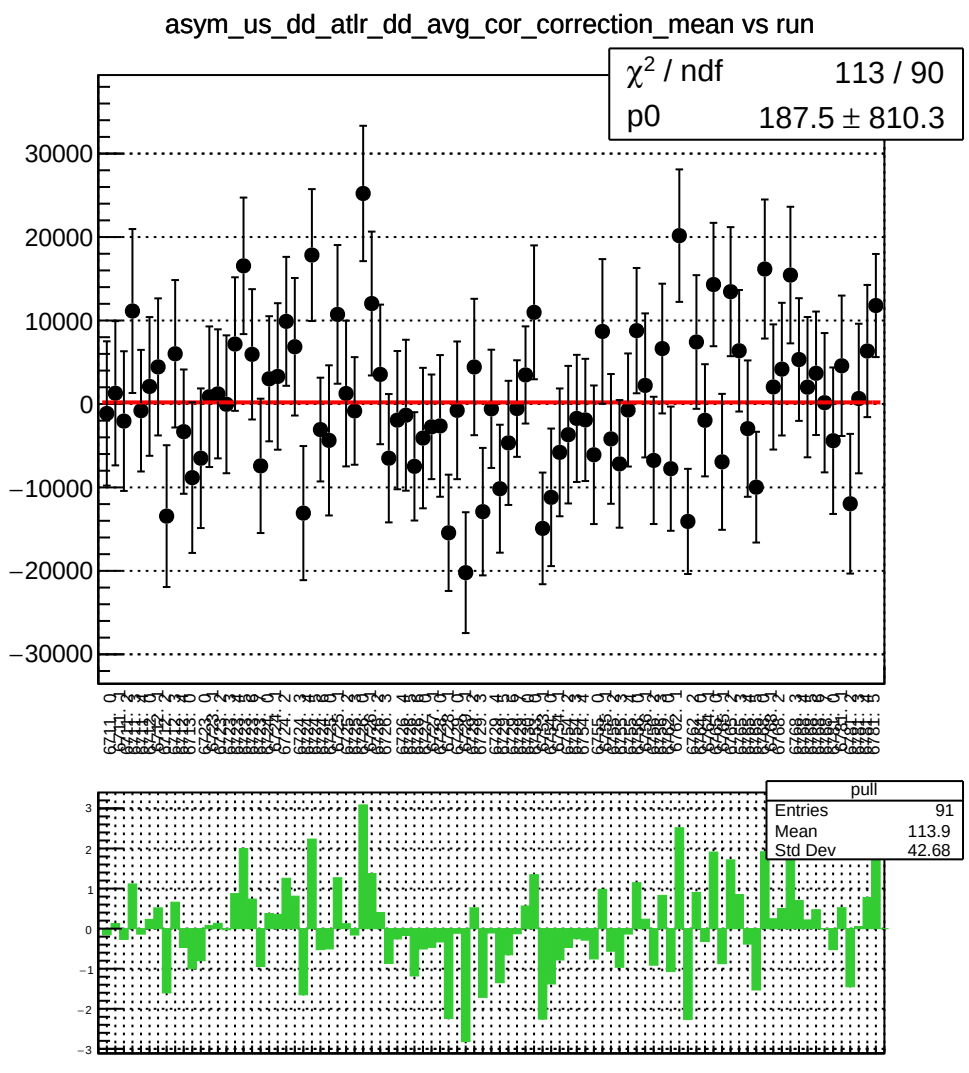

pull1D
Entries 91
Mean 0.02304
Std Dev 1.114
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

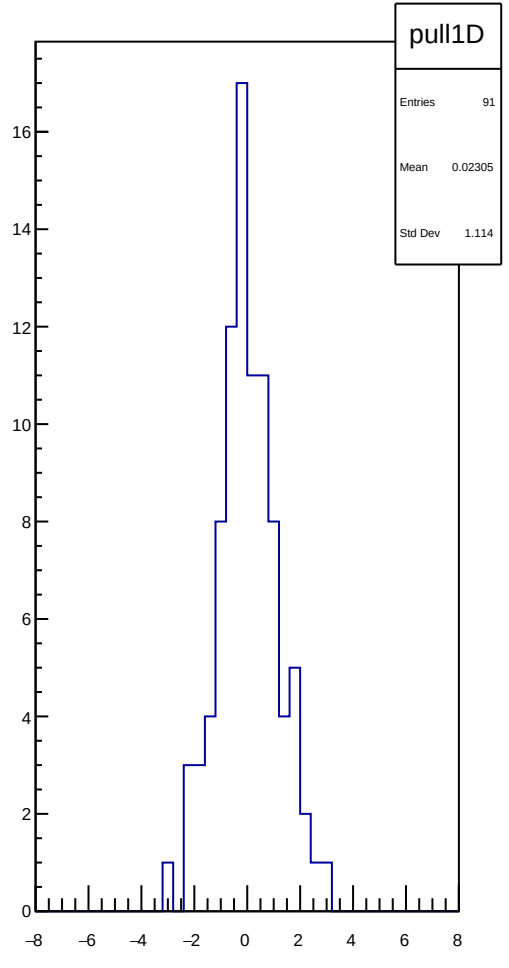

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 6733 / 90
p0 768.2 ± 0.573
950
900
850
800
750
700
650

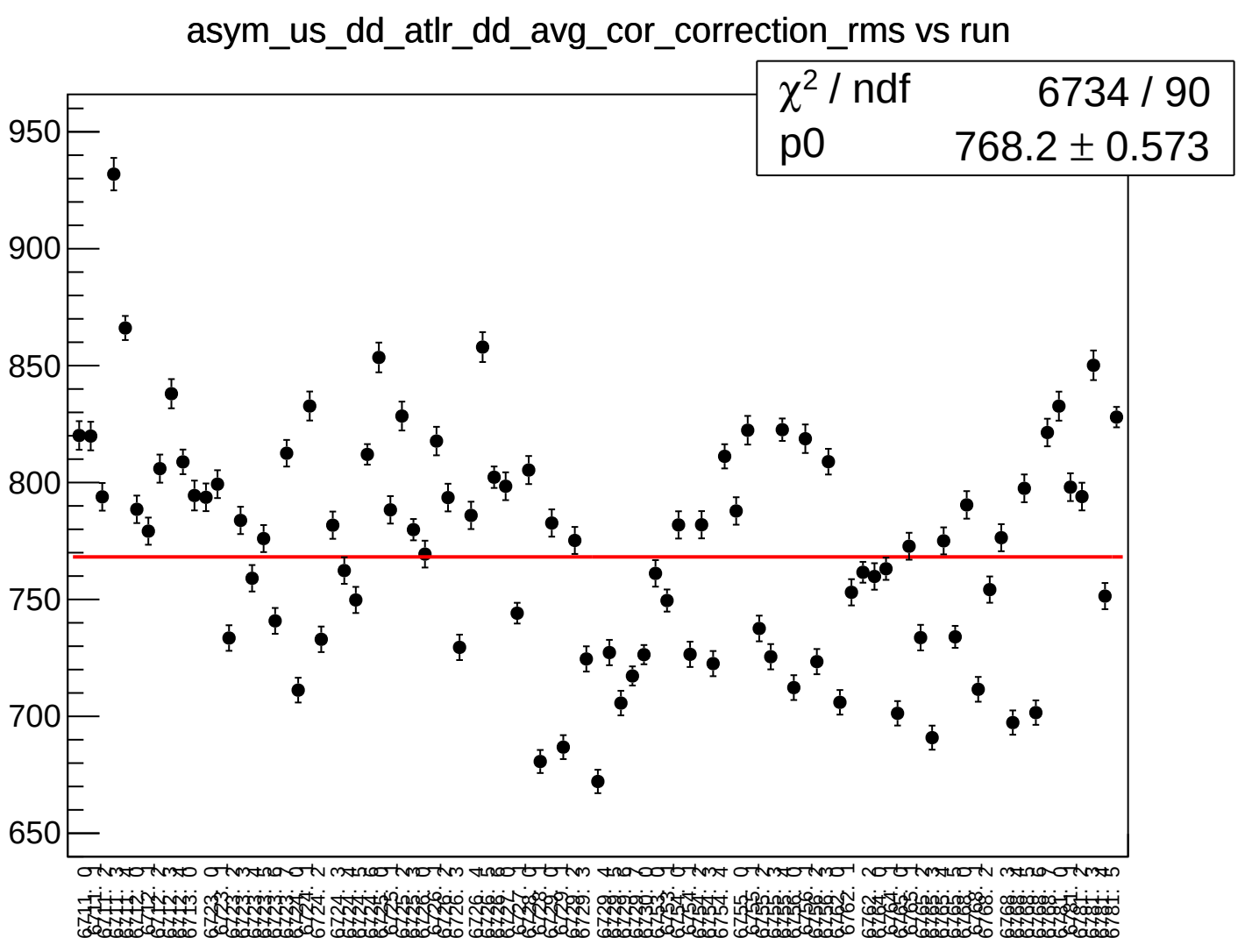

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 105.1 / 90
p0 3451 ± 1879
pull
Entries 91
Mean 2037
Std Dev 0

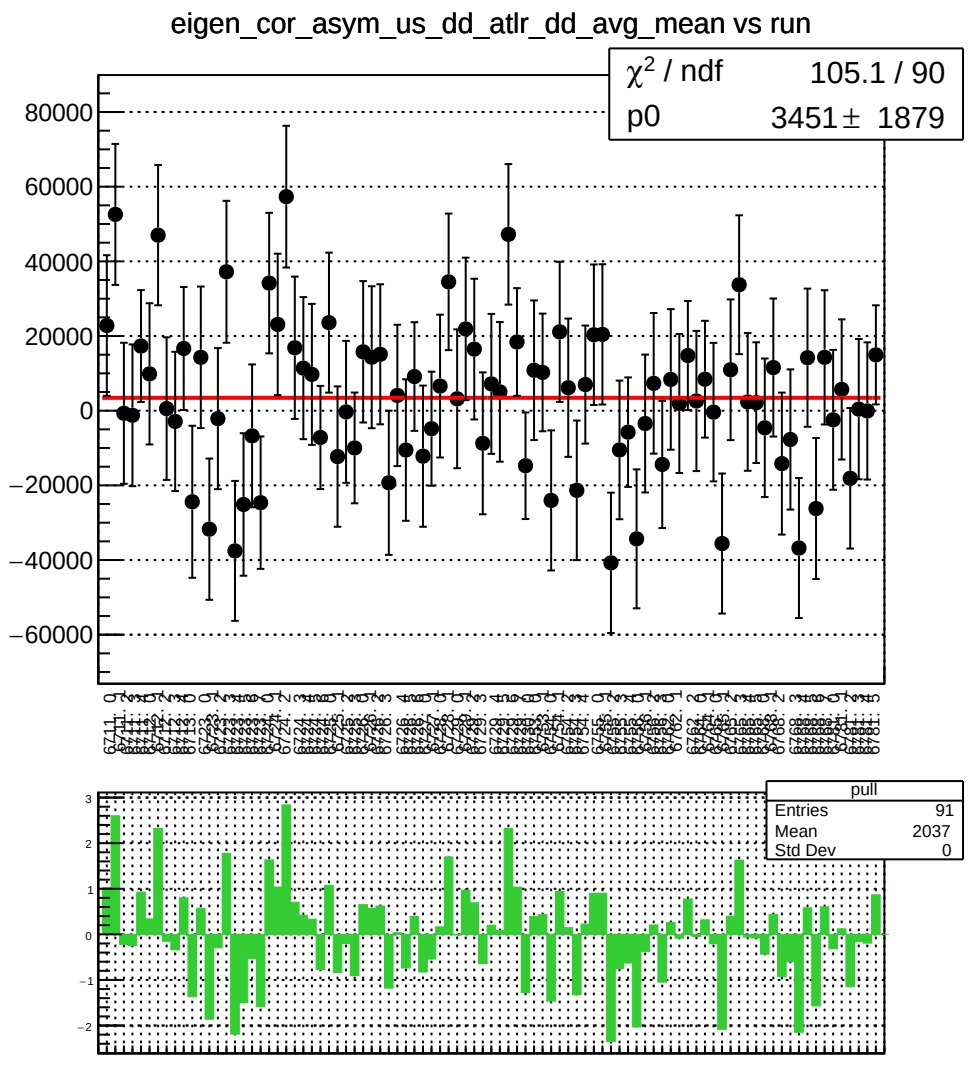

pull1D
Entries 91
Mean −0.002671
Std Dev 1.075

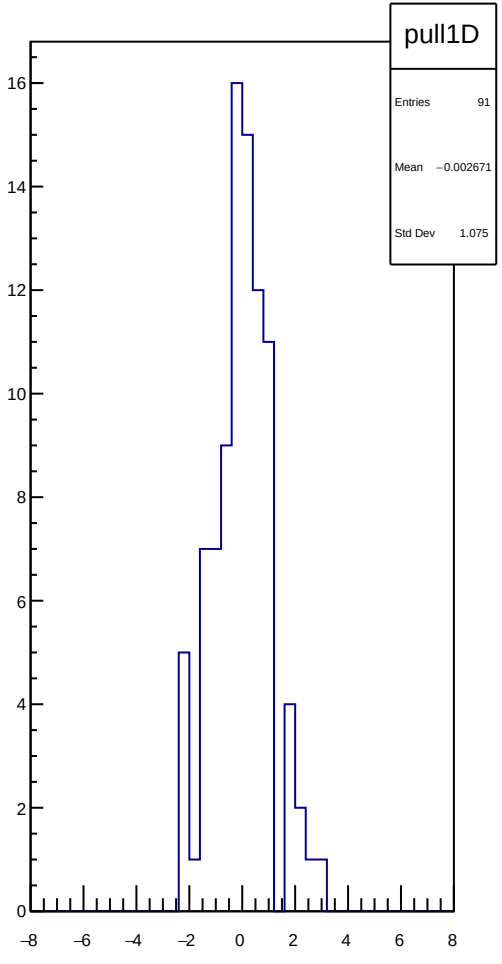

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 155.5 / 90
p0 1784 ± 1.328
1840
1820
1800
1780
1760
1740
1720

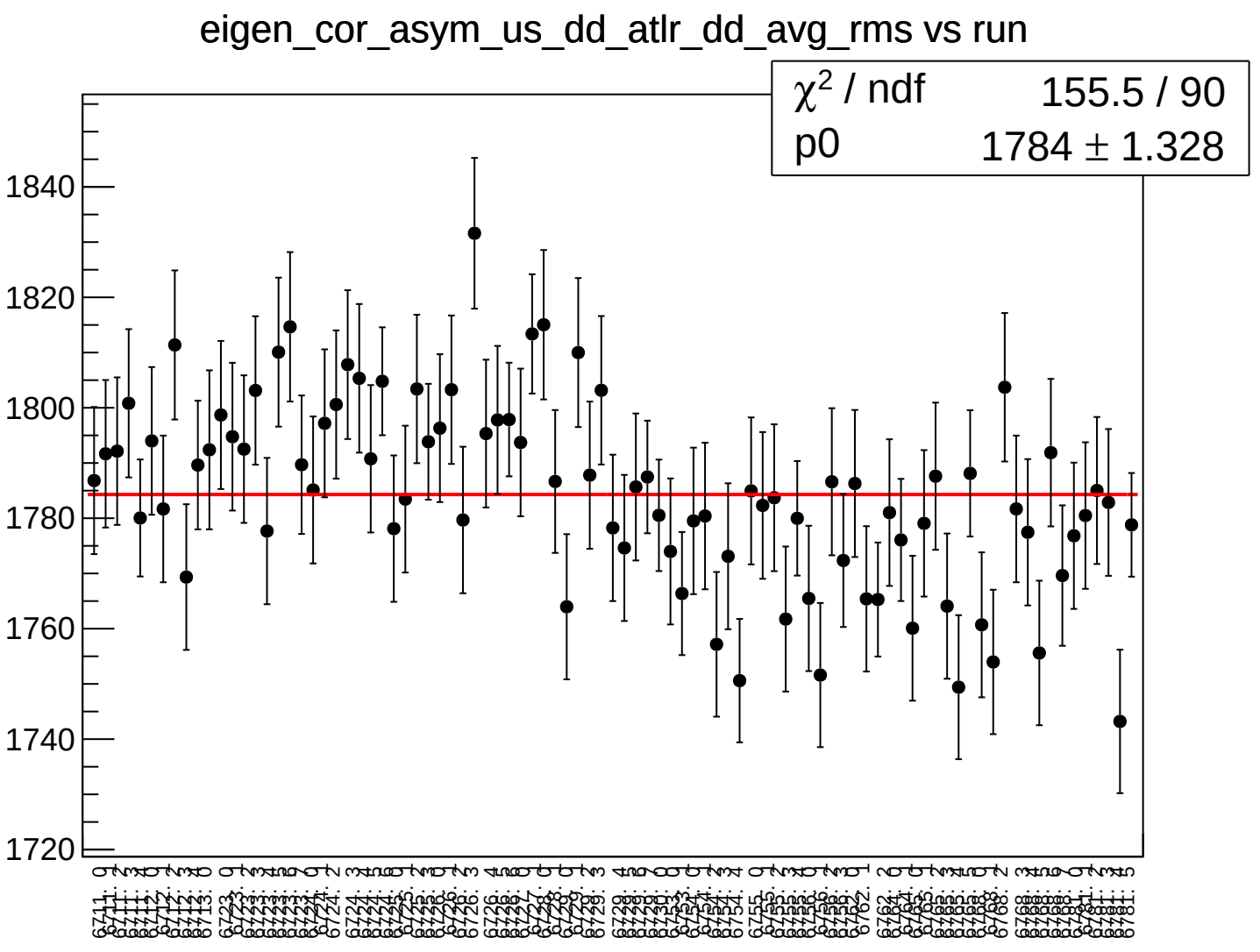

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 113 / 90
p0 187.5 ± 810.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 113.9
Std Dev 42.68
3
2
1
0
−1
−2
−3

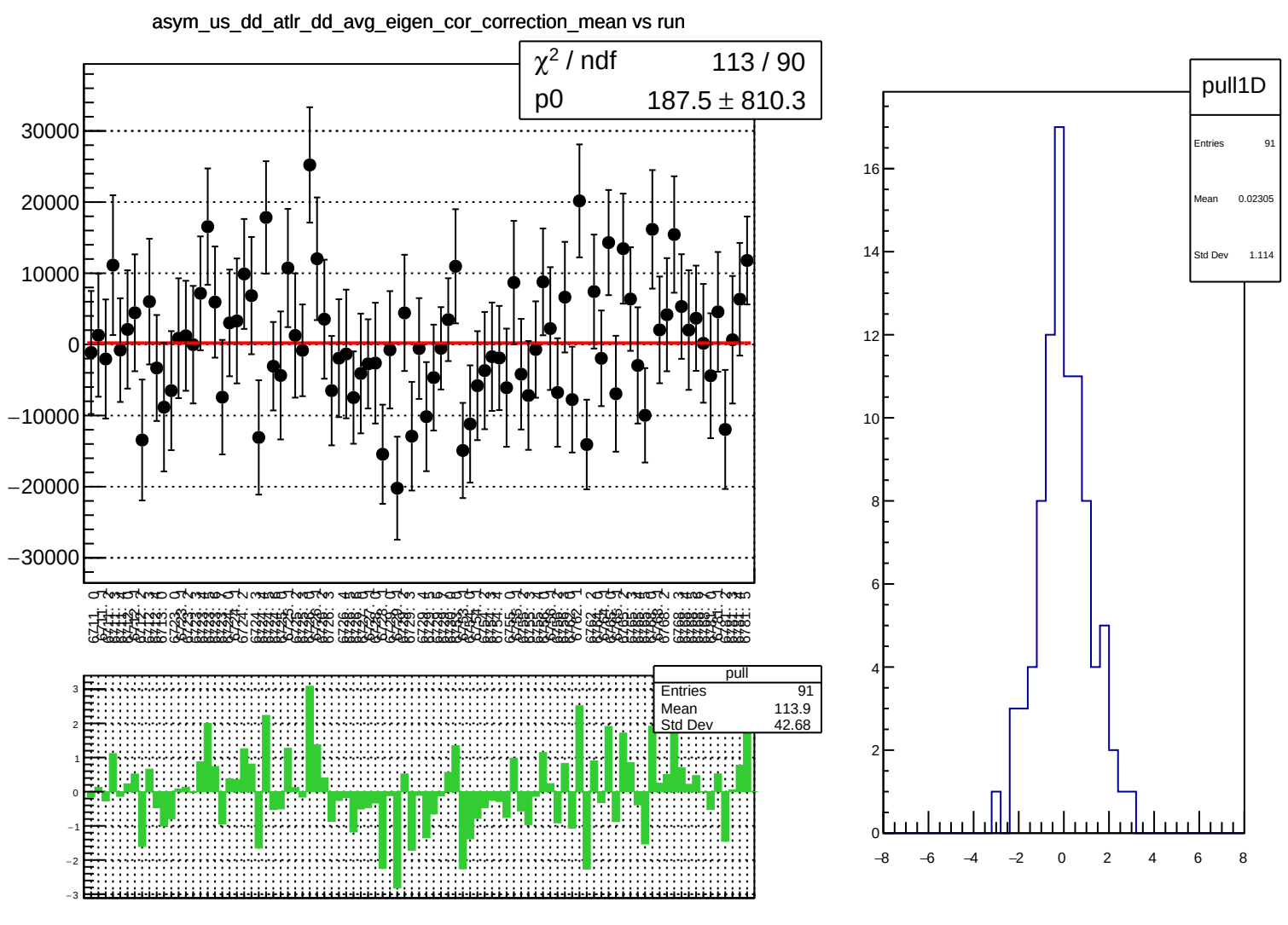

pull1D
Entries 91
Mean 0.02305
Std Dev 1.114
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

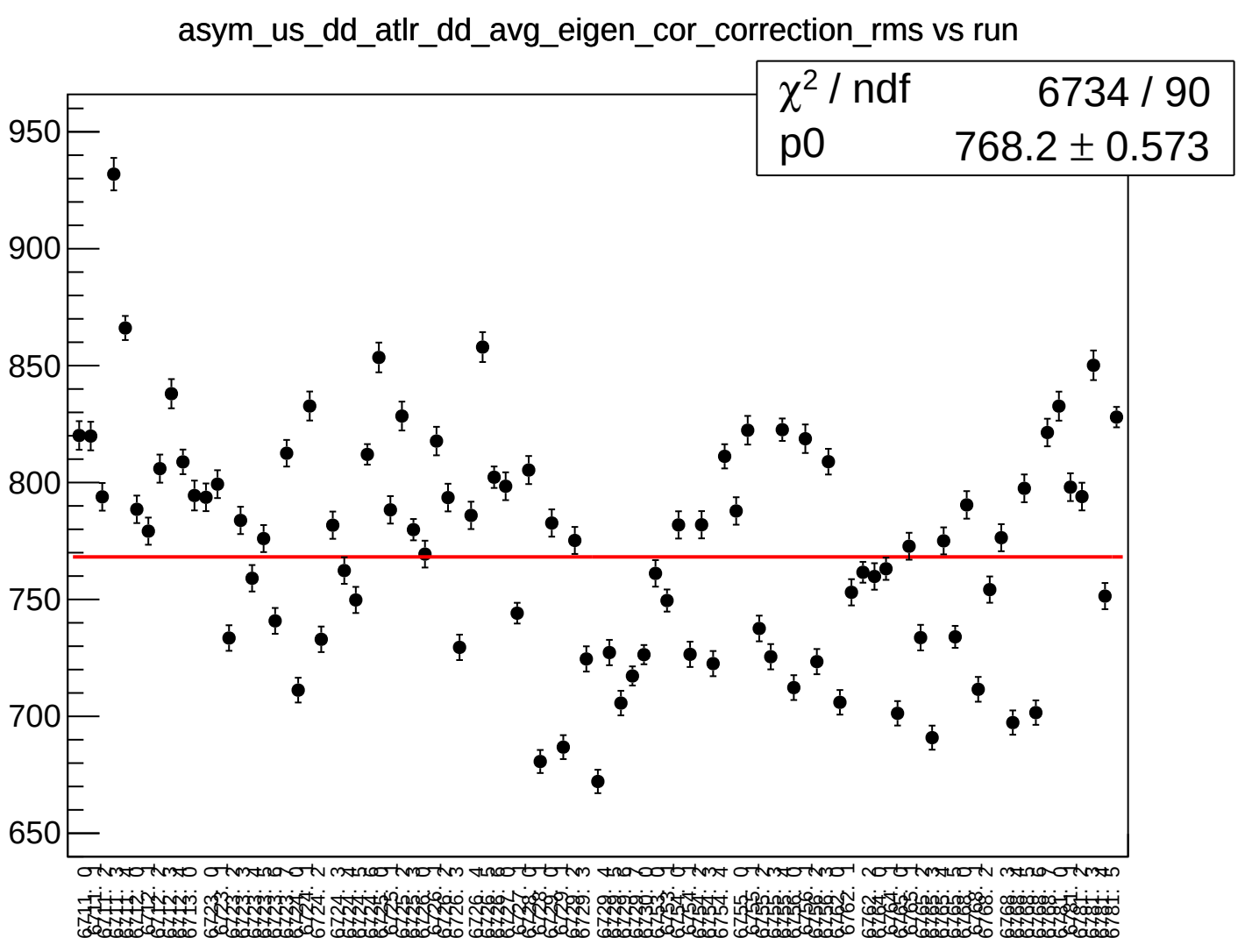

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 6734 / 90
p0 768.2 ± 0.573
950
900
850
800
750
700
650

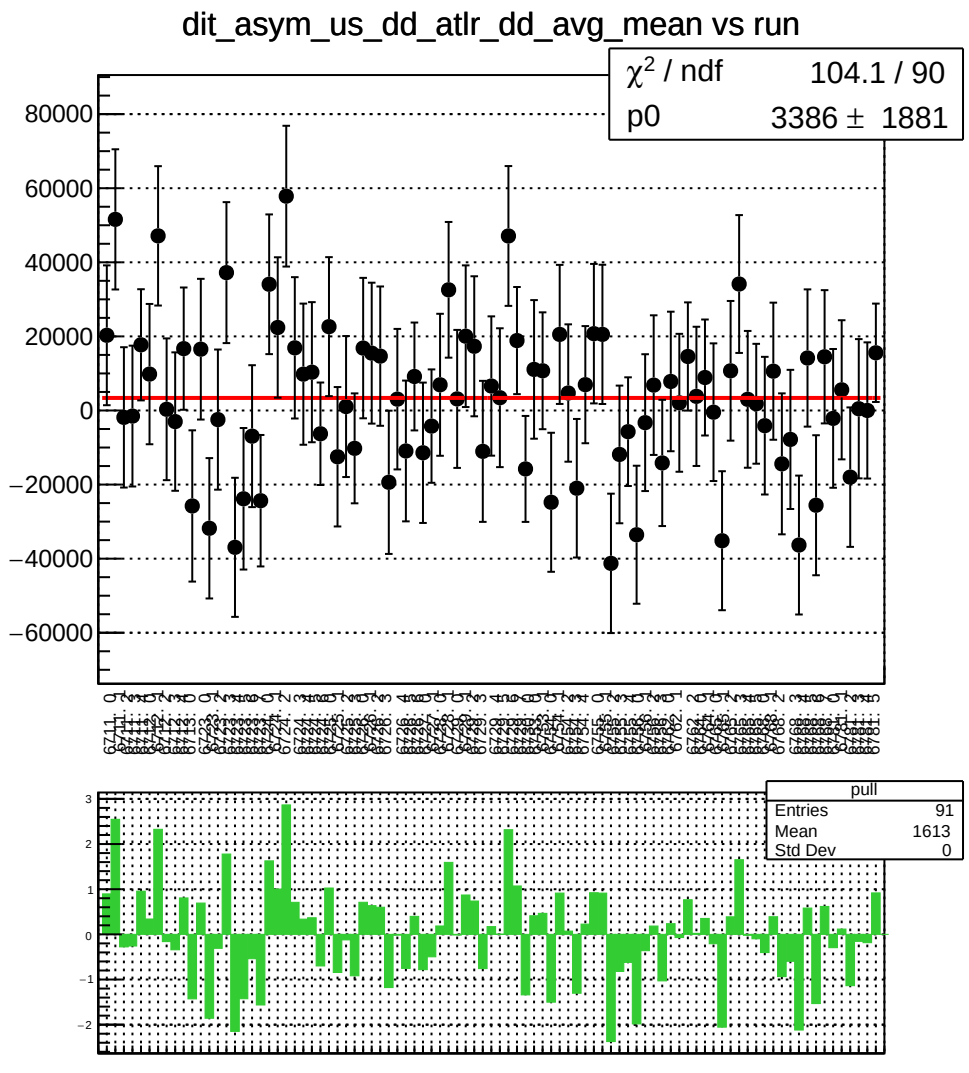

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 105.1 / 90
p0 3451 ± 1879
pull
Entries 91
Mean 2037
Std Dev 0

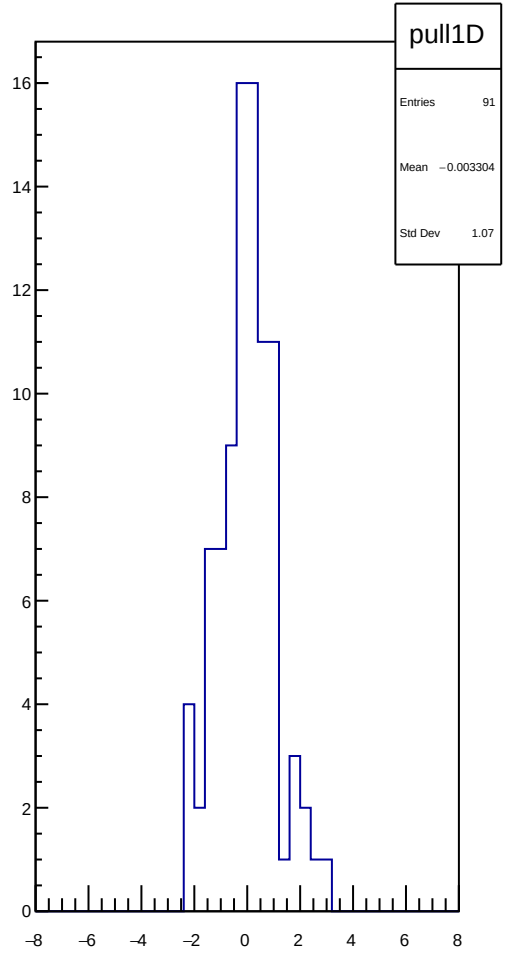

pull1D
Entries 91
Mean −0.002671
Std Dev 1.075

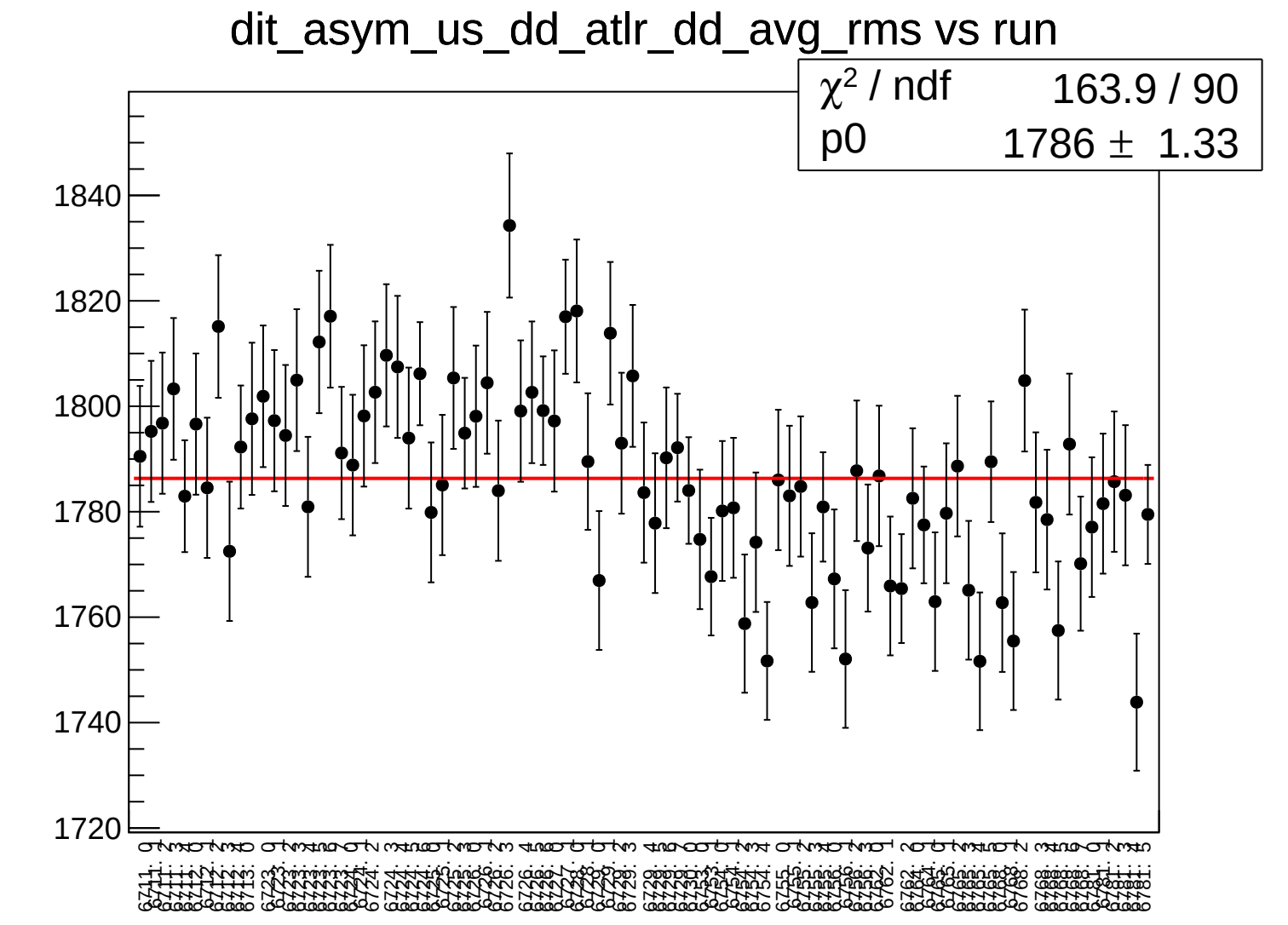

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 155.5 / 90
p0 1784 ± 1.328
1840
1820
1800
1780
1760
1740
1720

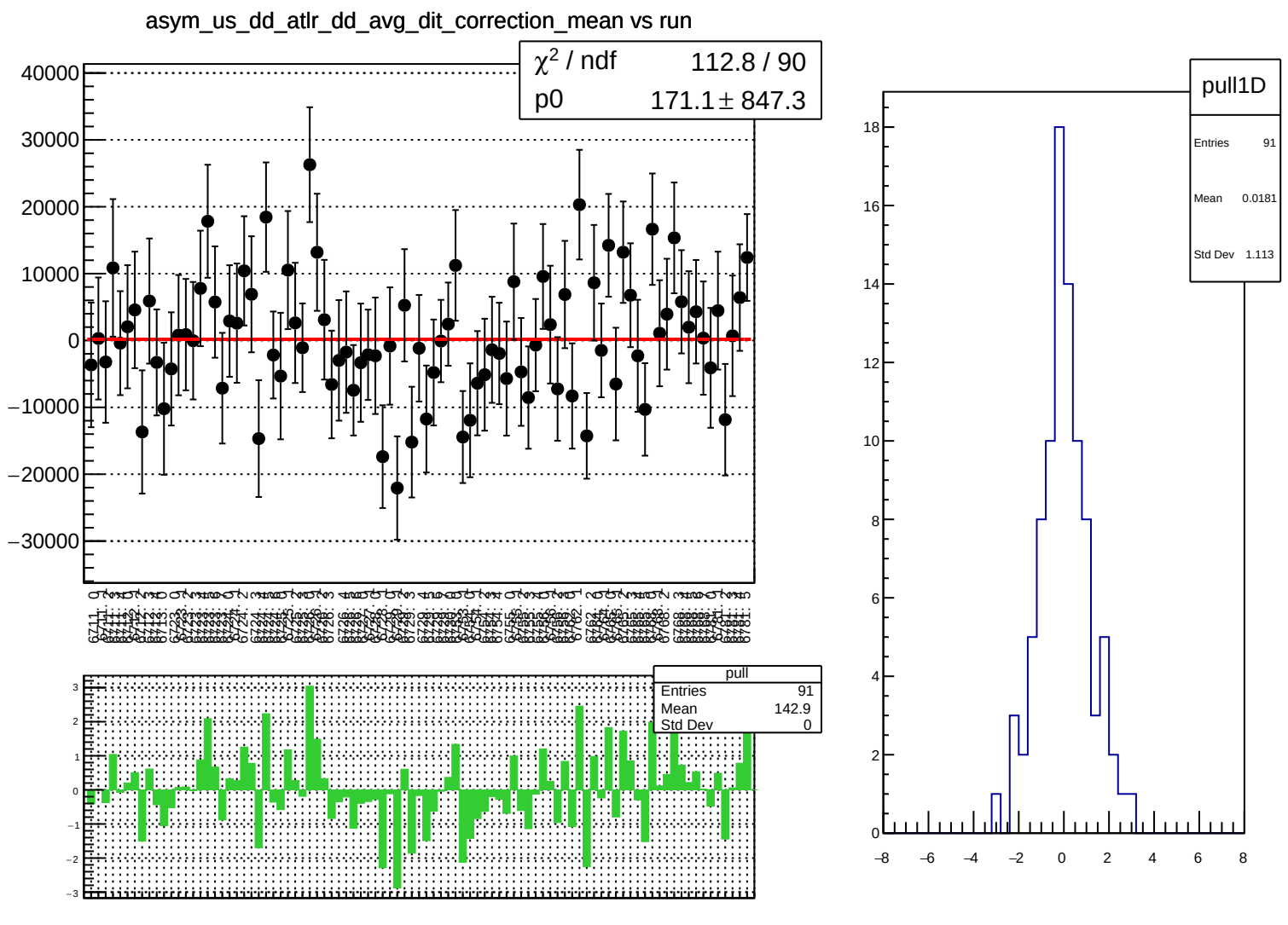

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 113 / 90
p0 187.5 ± 810.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 113.9
Std Dev 42.68
3
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.02305
Std Dev 1.114
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

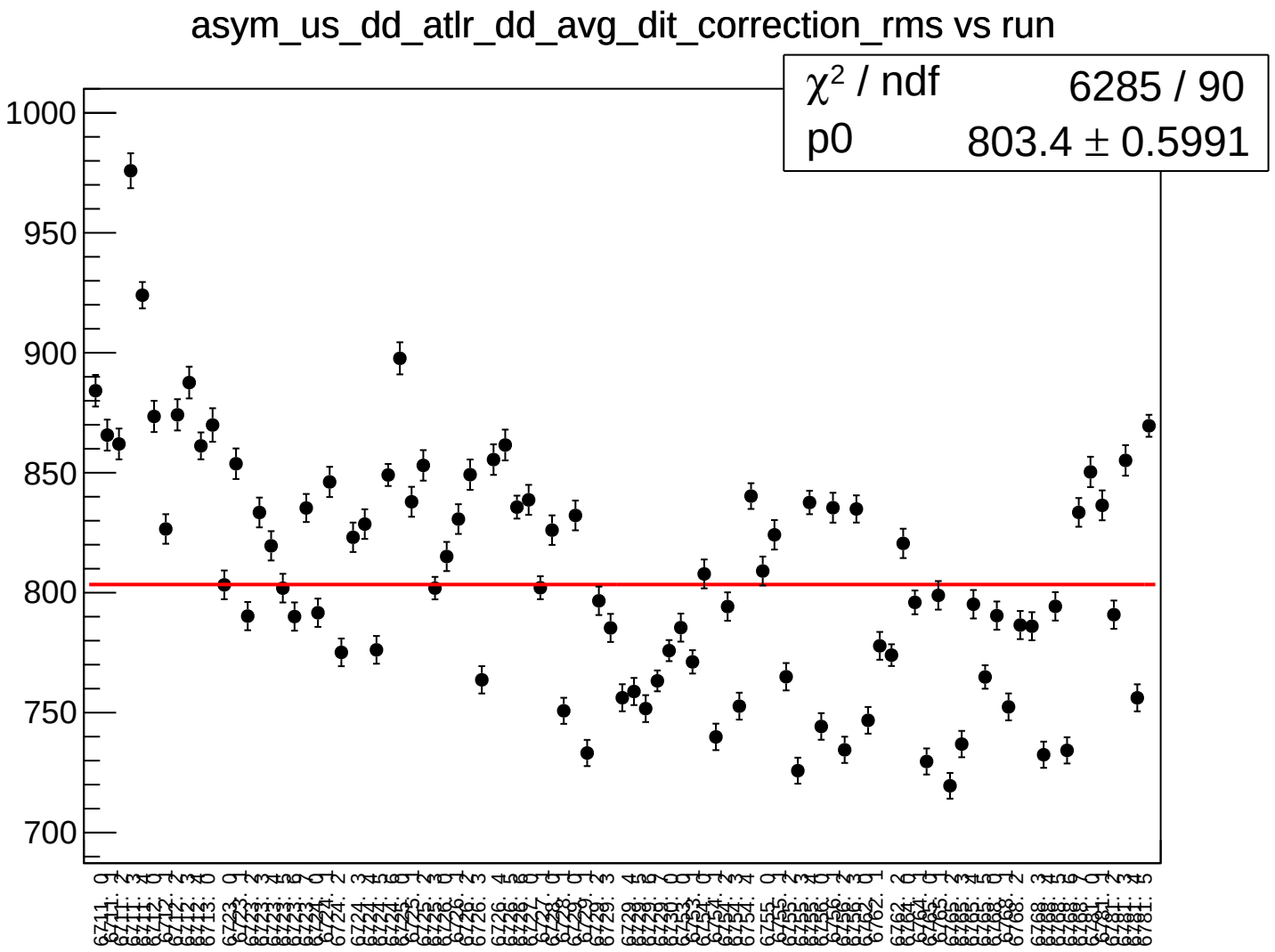

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6734 / 90
p0 768.2 ± 0.573
950
900
850
800
750
700
650

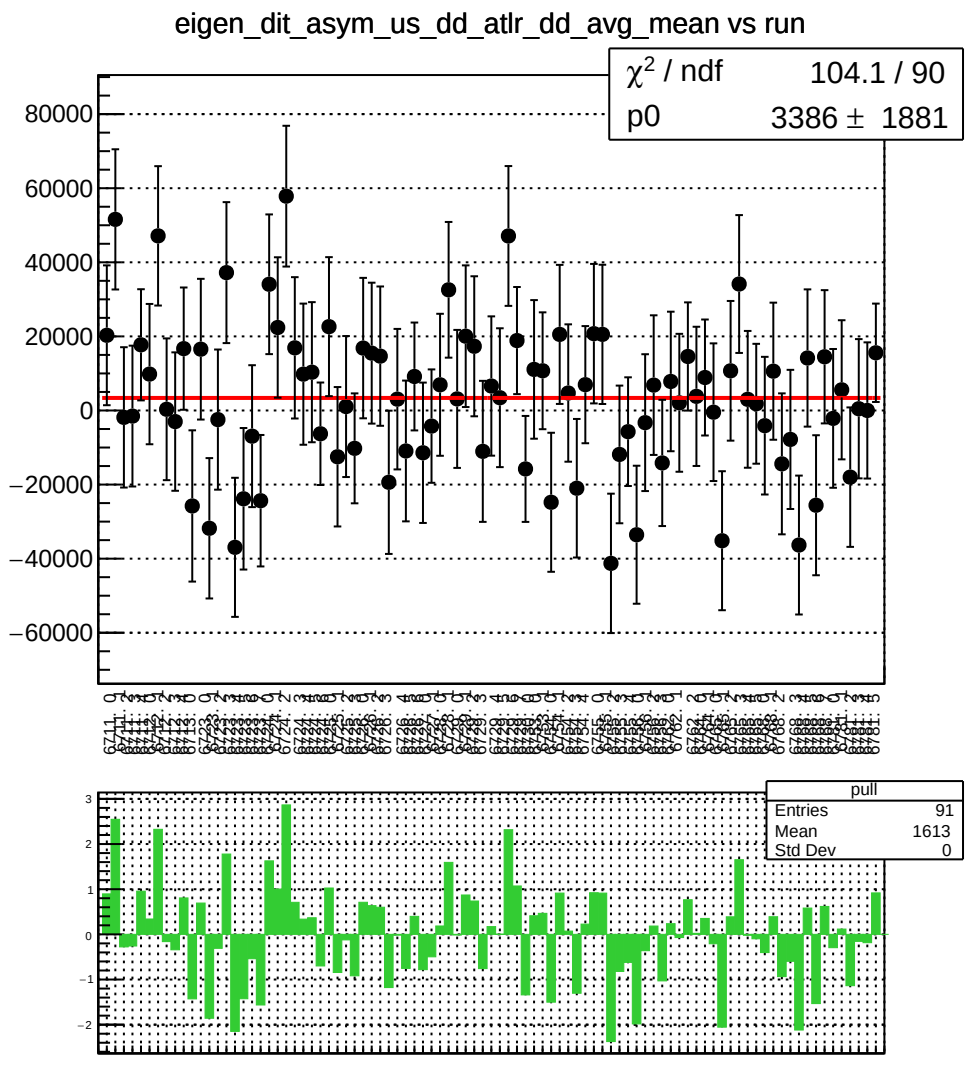

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 104.1 / 90
p0 3386 ± 1881
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 1613
Std Dev 0
3
2
1
0
−1
−2

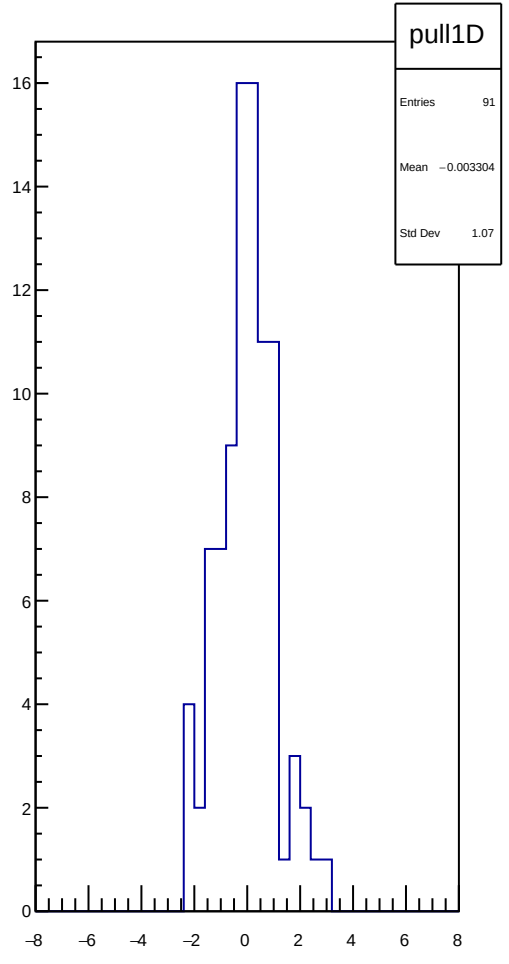

pull1D
Entries 91
Mean −0.003304
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

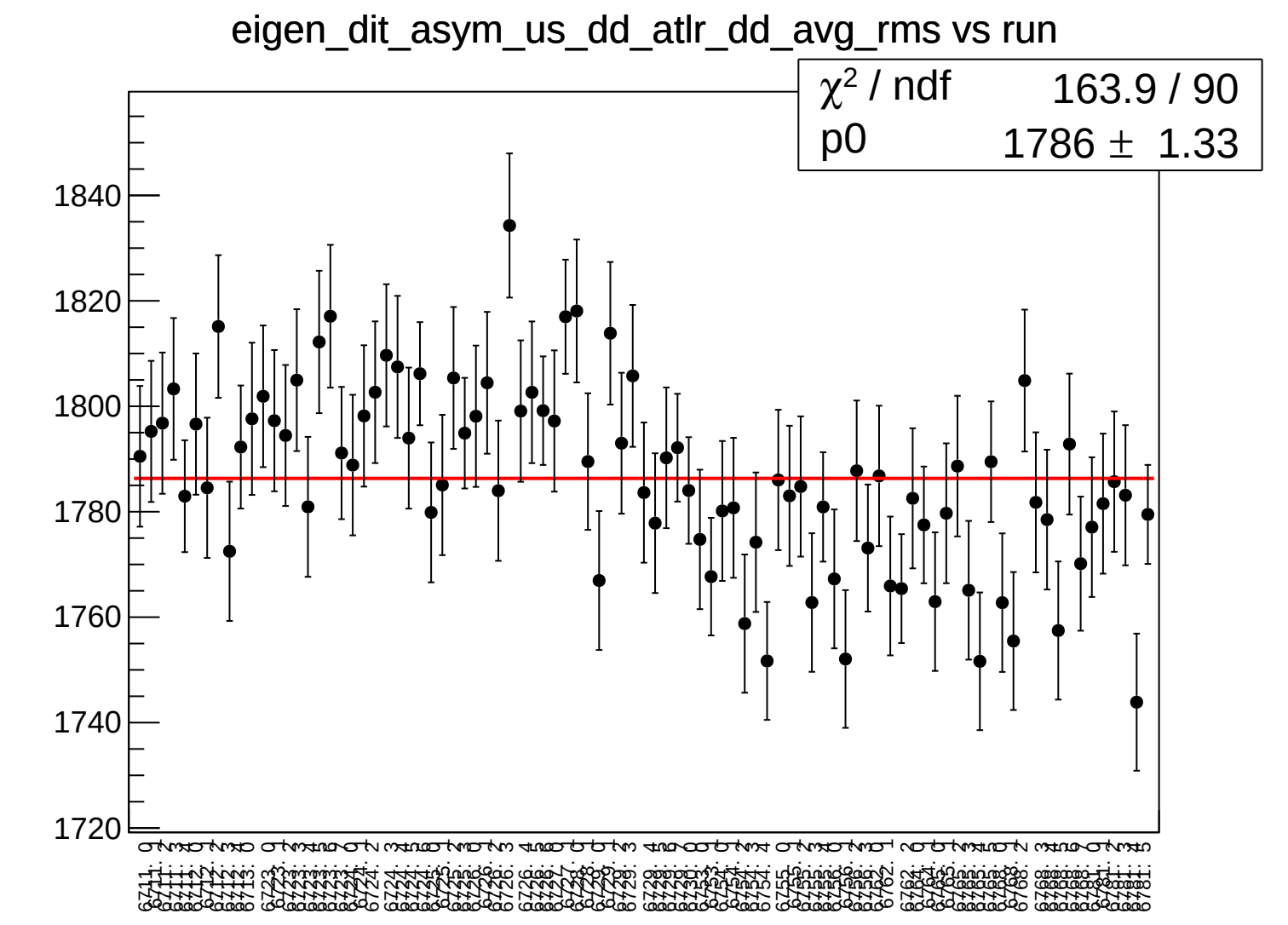

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 163.9 / 90
p0 1786 ± 1.33
1840
1820
1800
1780
1760
1740
1720

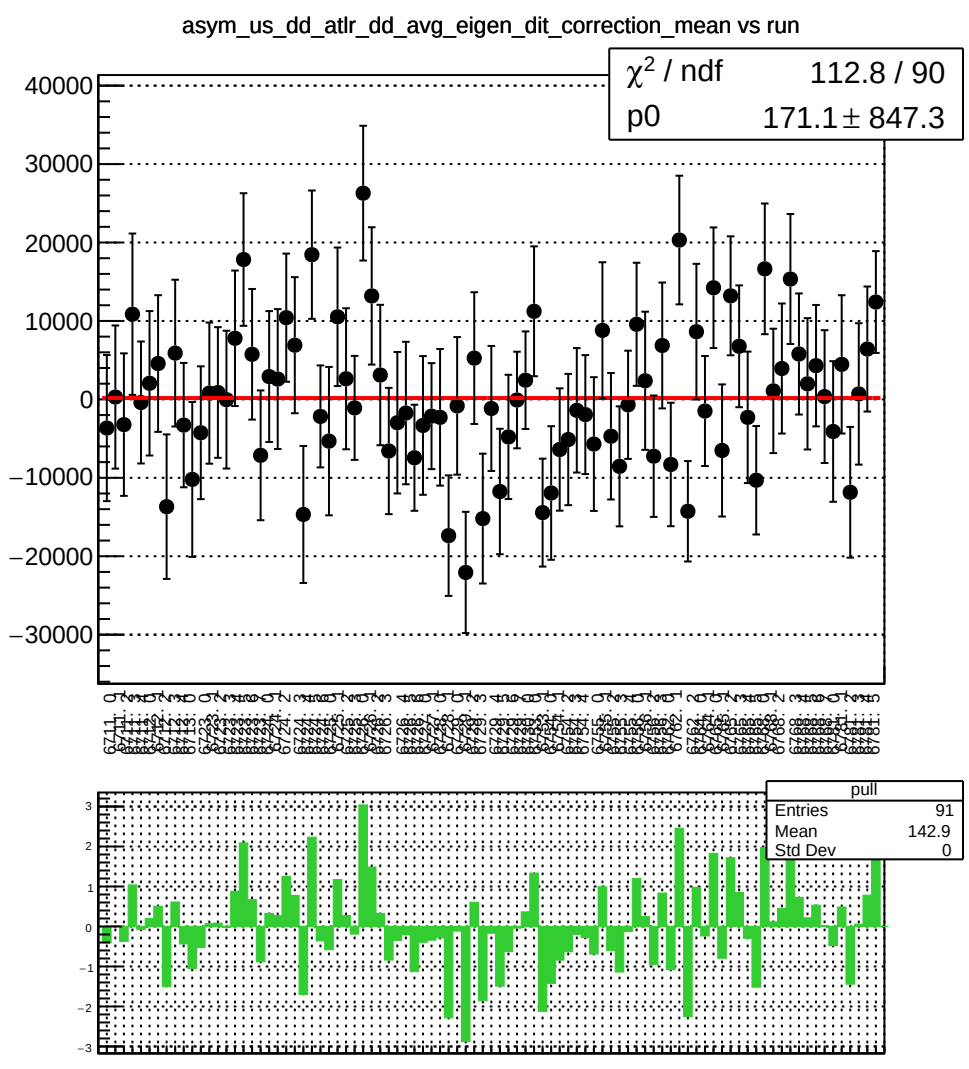

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 112.8 / 90
p0 171.1 ± 847.3
pull
Entries 91
Mean 142.9
Std Dev 0
pull1D
Entries 91
Mean 0.0181
Std Dev 1.113

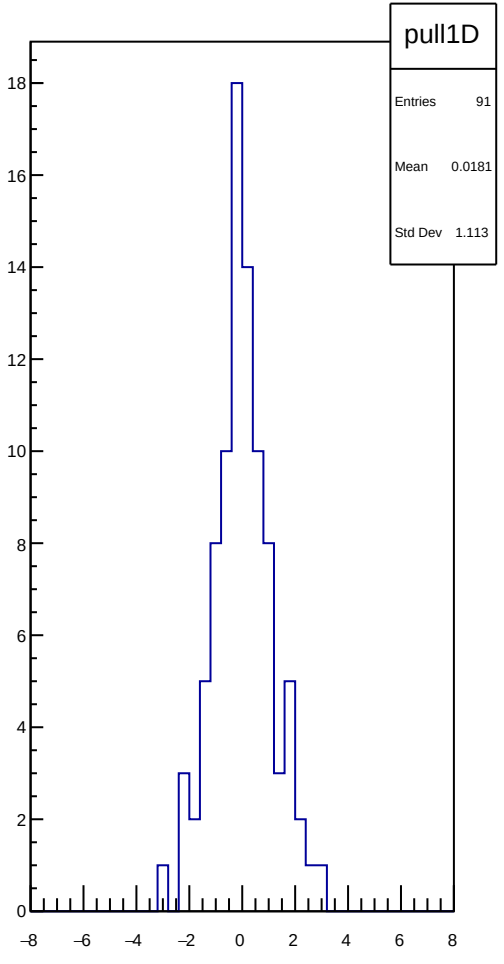

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 6285 / 90
p0 803.4 ± 0.5991
1000
950
900
850
800
750
700

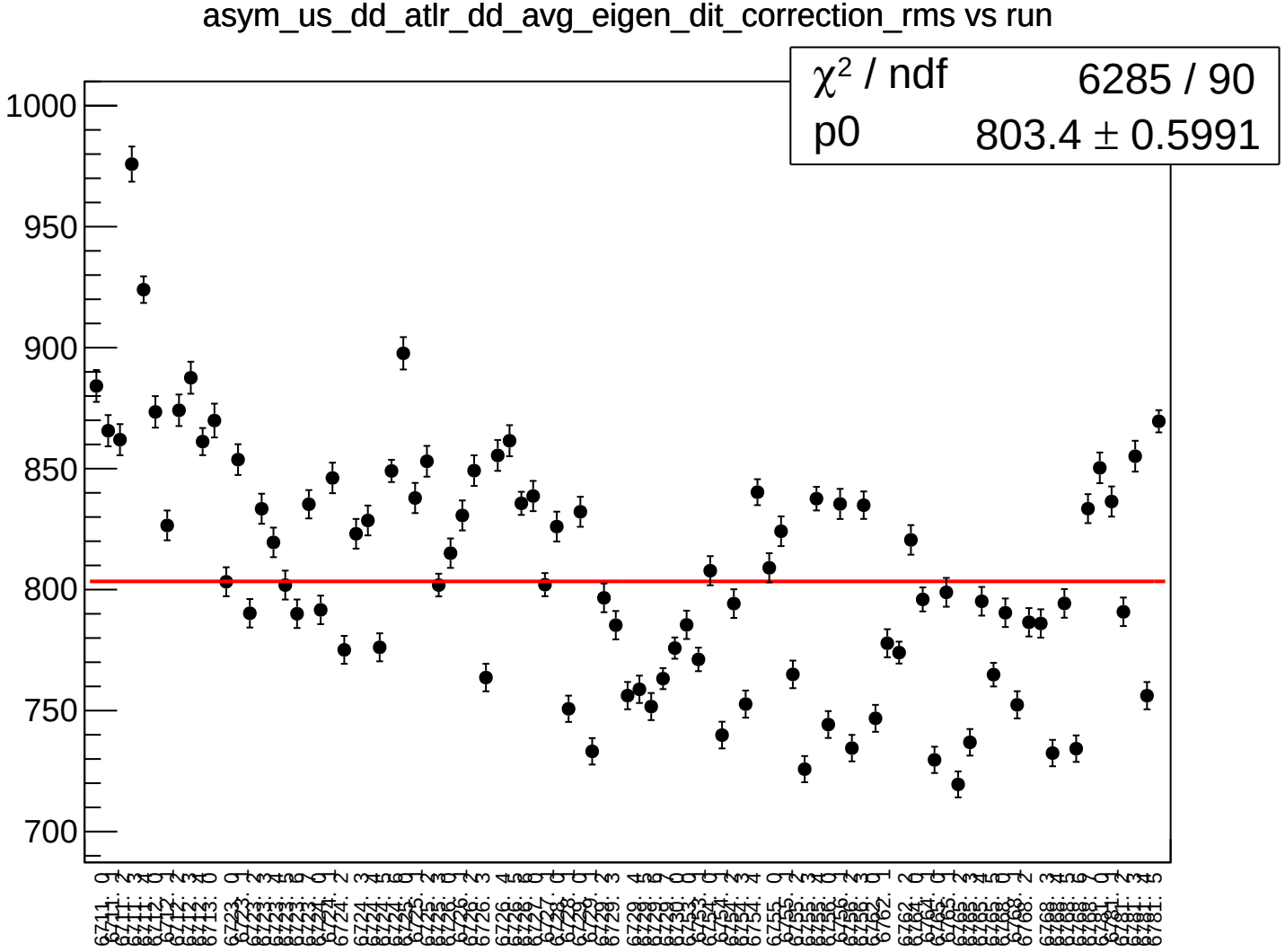

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 104.1 / 90
p0 3386 ± 1881
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 1613
Std Dev 0
3
2
1
0
−1
−2

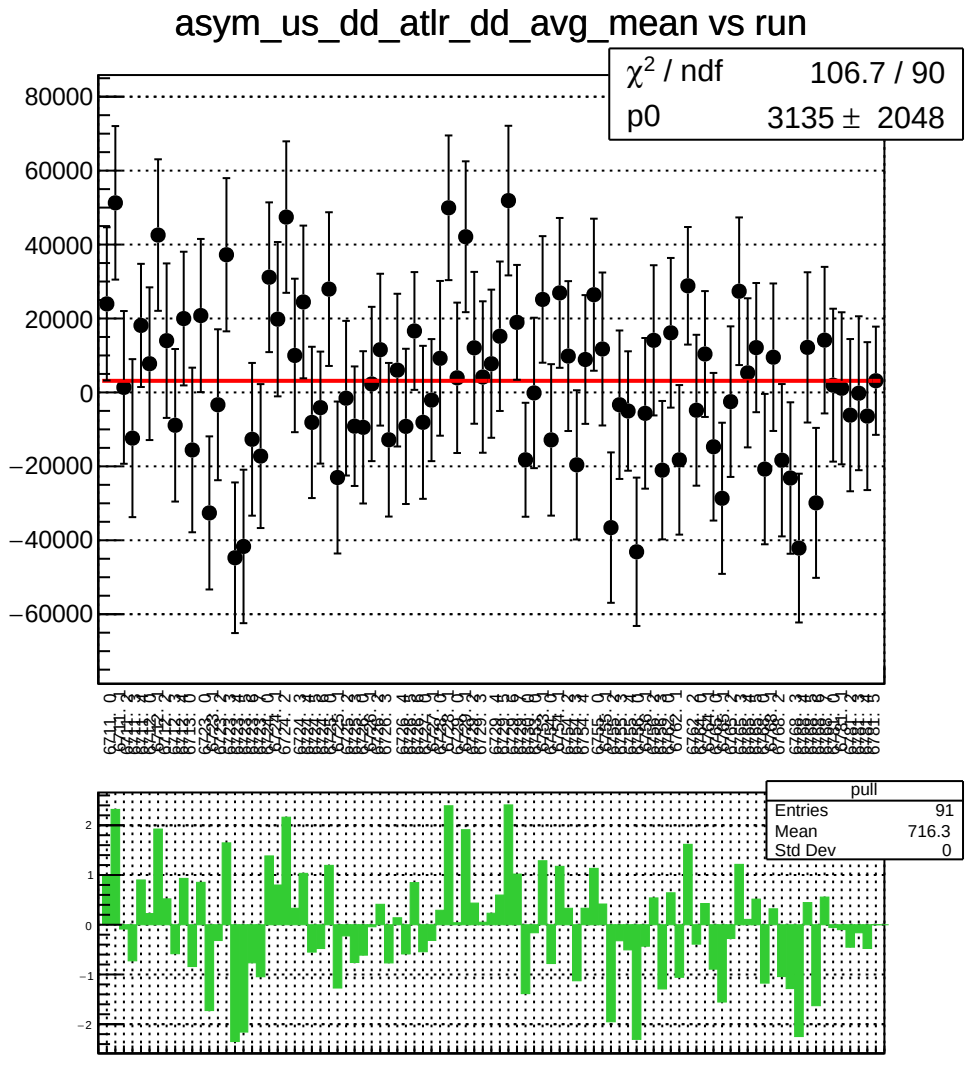

pull1D
Entries 91
Mean −0.003304
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

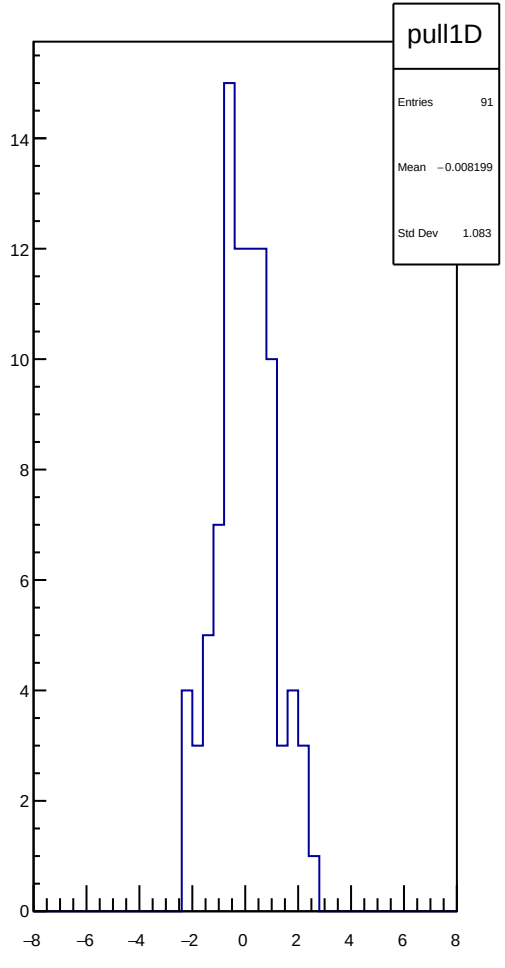

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 163.9 / 90
p0 1786 ± 1.33
1840
1820
1800
1780
1760
1740
1720

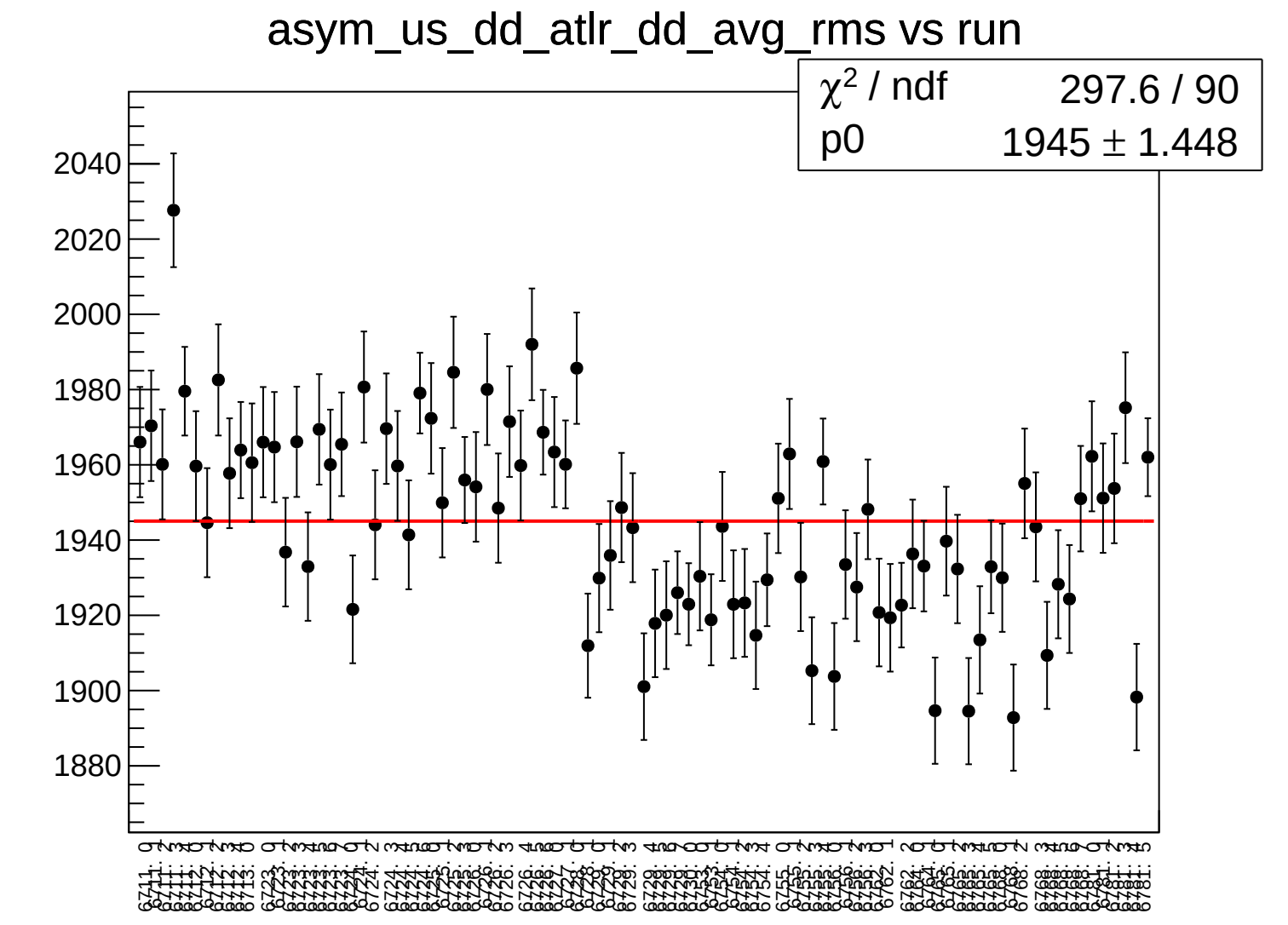

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 112.8 / 90
p0 171.1 ± 847.3
pull
Entries 91
Mean 142.9
Std Dev 0

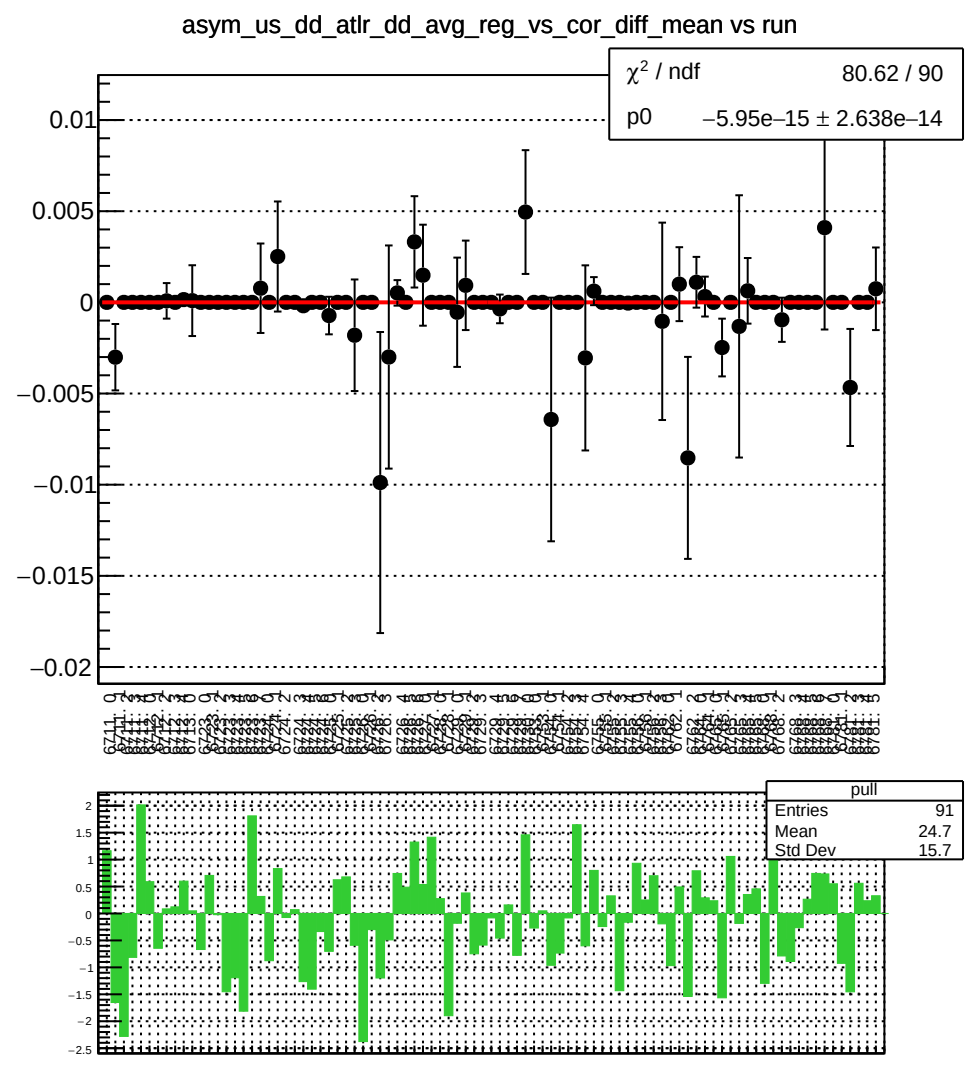

pull1D
Entries 91
Mean 0.0181
Std Dev 1.113

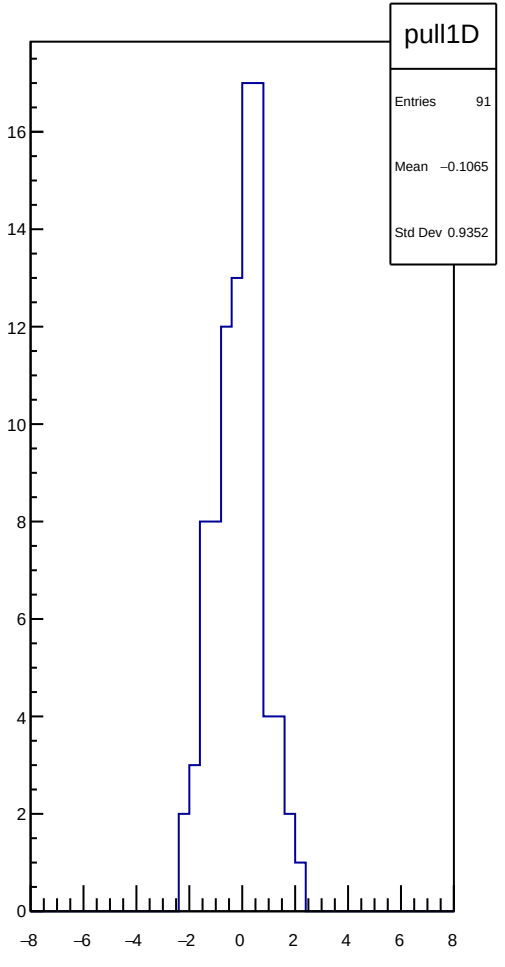

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 6285 / 90
p0 803.4 ± 0.5991
1000
950
900
850
800
750
700

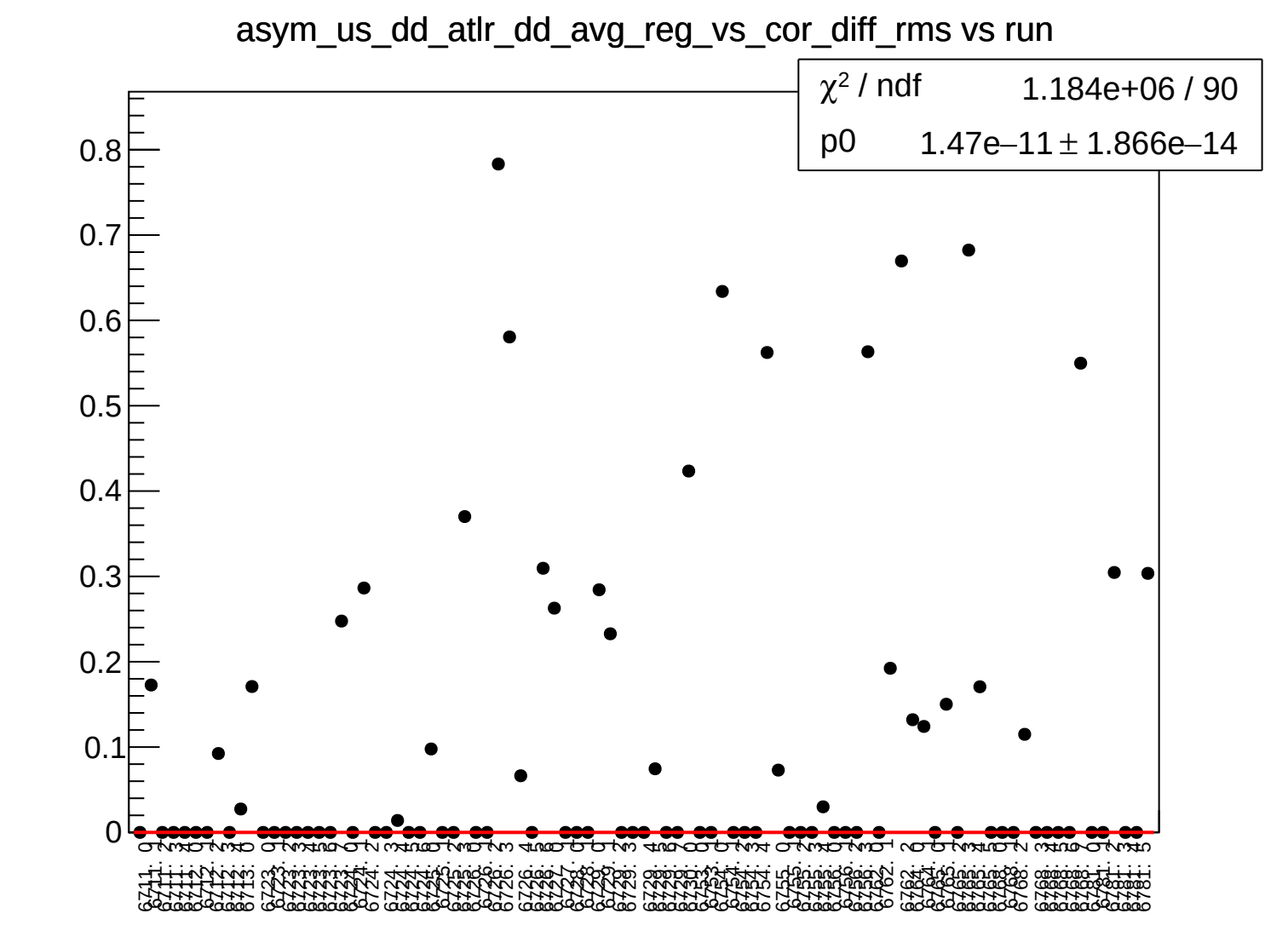

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 106.7 / 90
p0 3135 ± 2048
pull
Entries 91
Mean 716.3
Std Dev 0

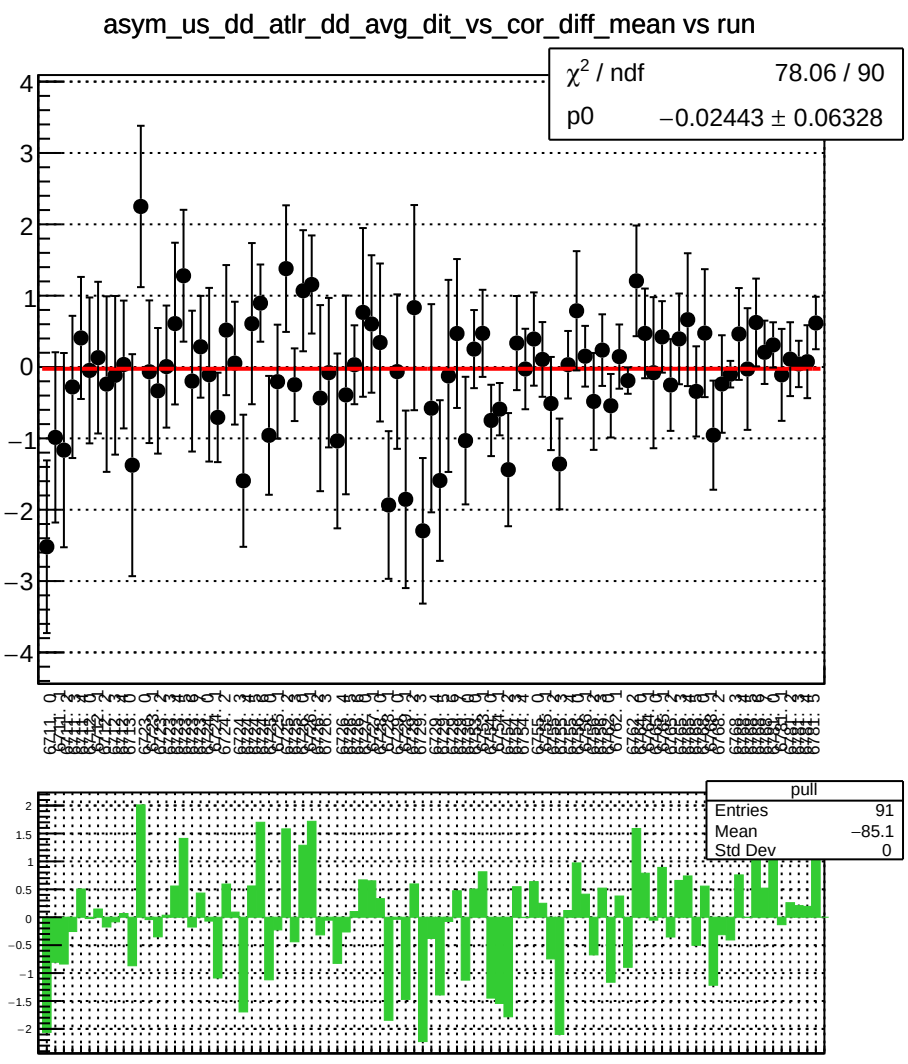

pull1D
Entries 91
Mean −0.008199
Std Dev 1.083

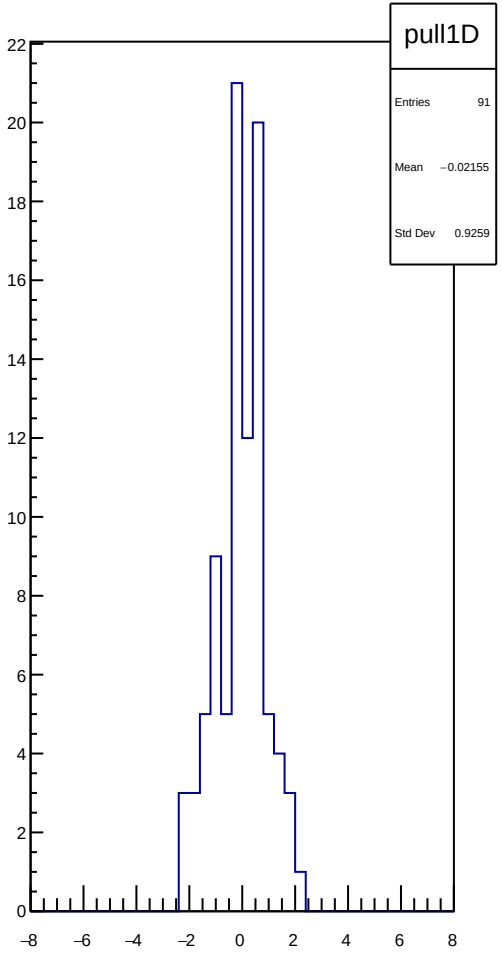

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 297.6 / 90
p0 1945 ± 1.448
2040
2020
2000
1980
1960
1940
1920
1900
1880

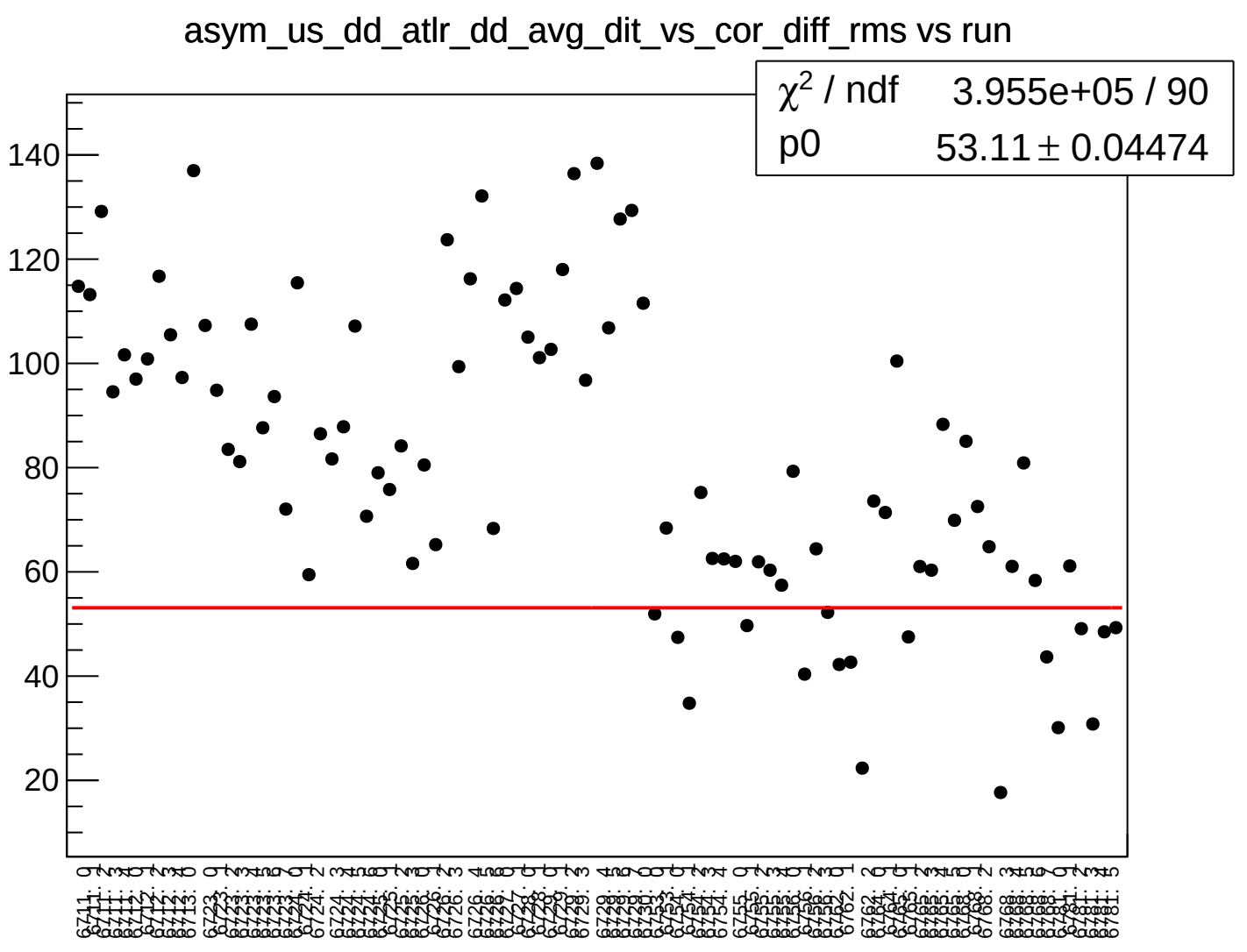

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.62 / 90
p0 −5.95e−15 ± 2.638e−14
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 91
Mean 24.7
Std Dev 15.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

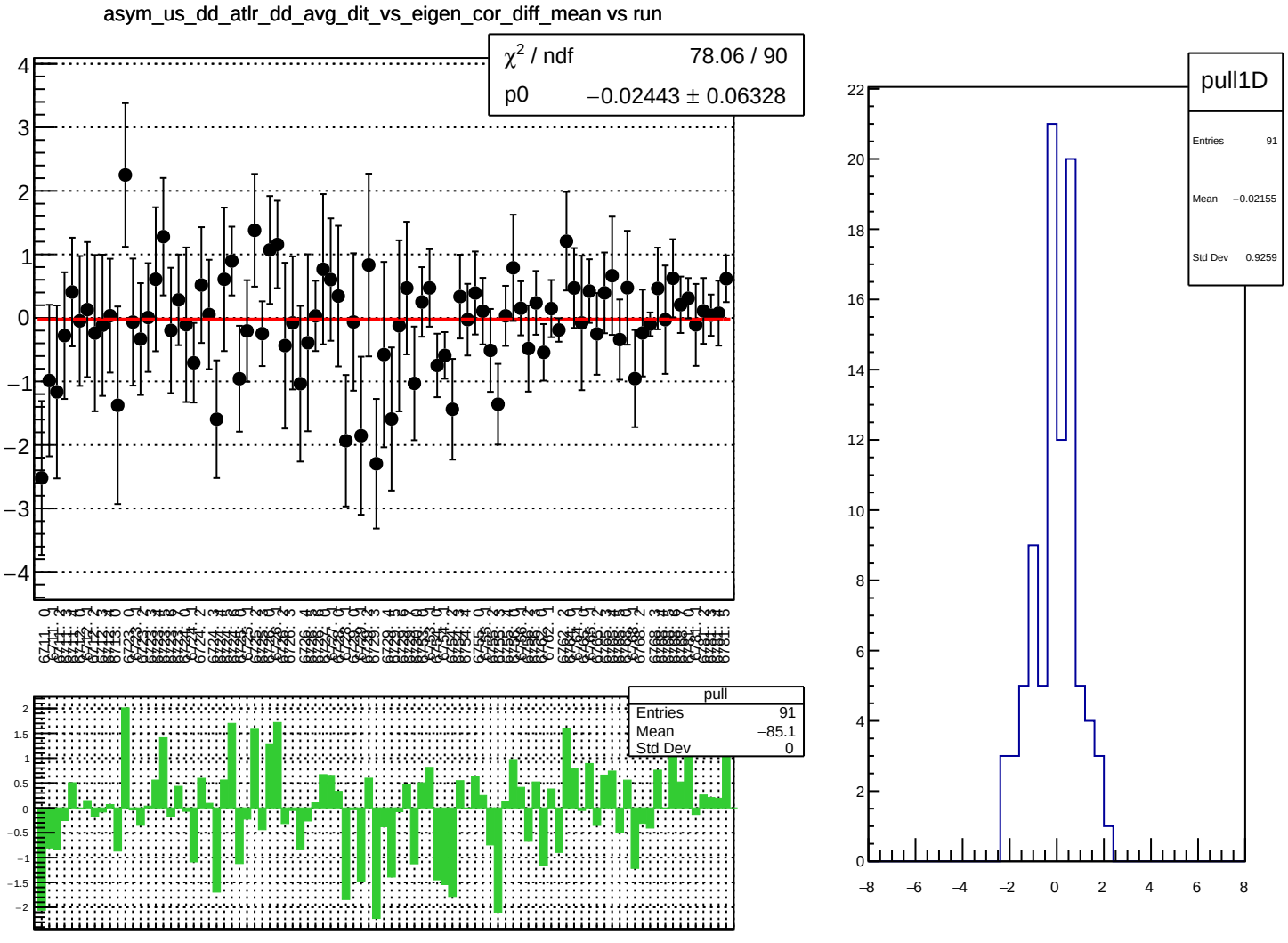

pull1D
Entries 91
Mean −0.1065
Std Dev 0.9352
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

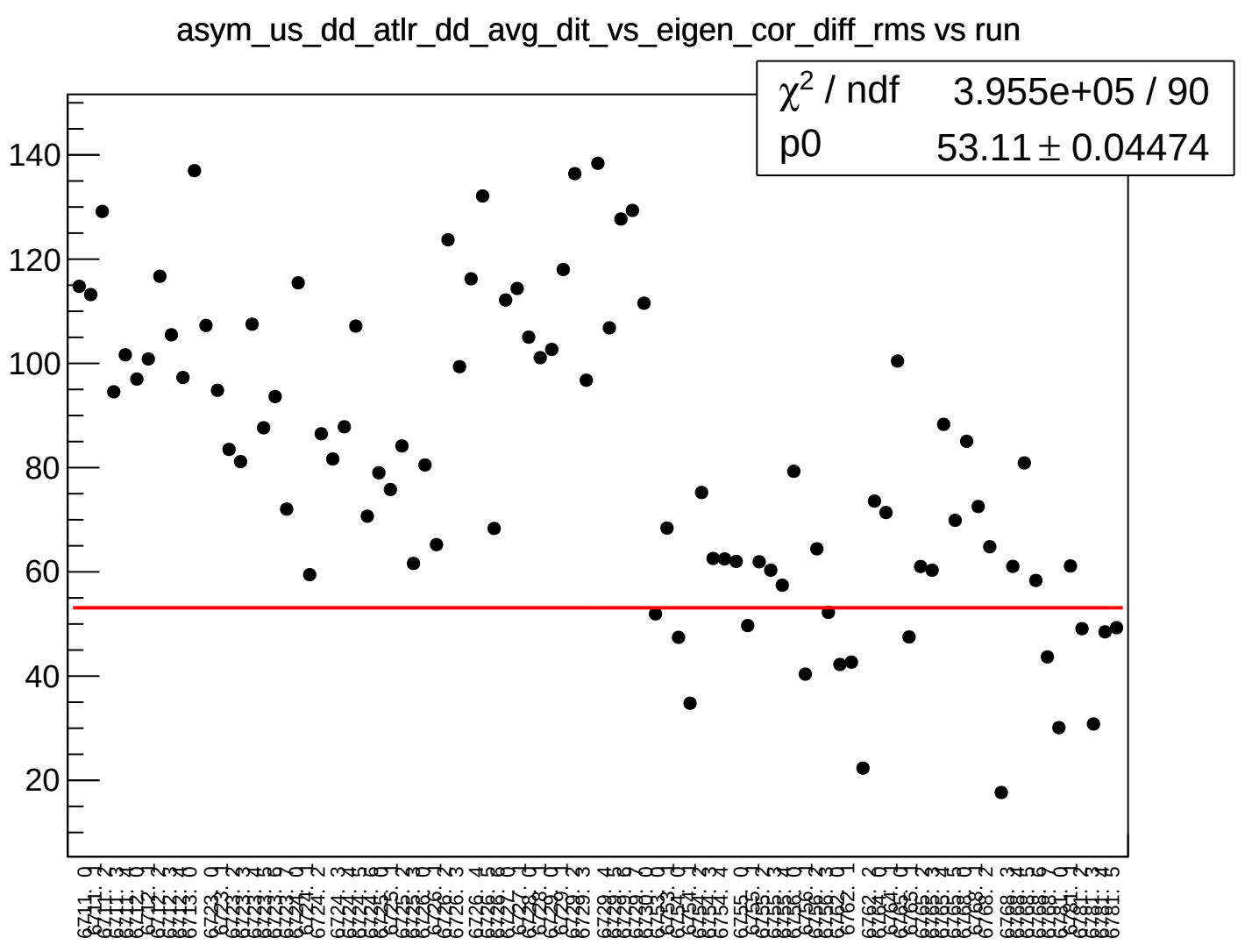

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.184e+06 / 90
p0 1.47e−11 ± 1.866e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

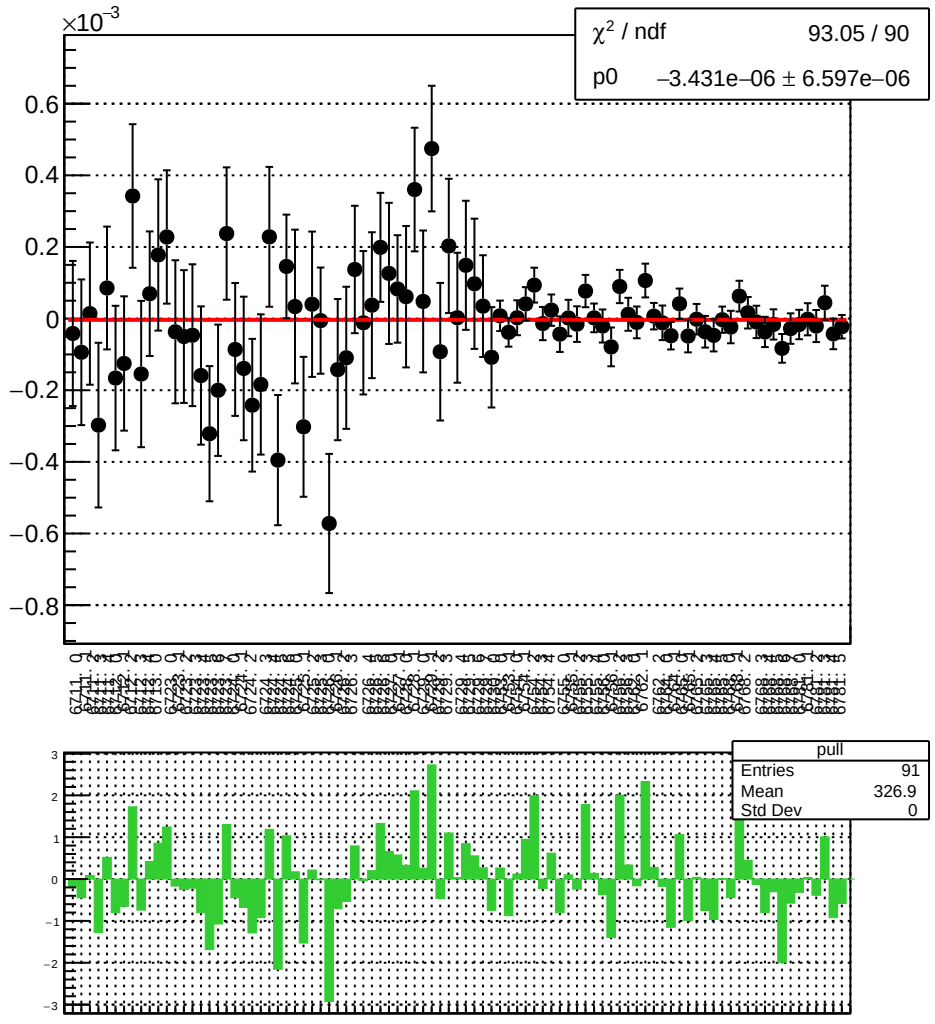

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.06 / 90
p0 −0.02443 ± 0.06328
pull
Entries 91
Mean −85.1
Std Dev 0

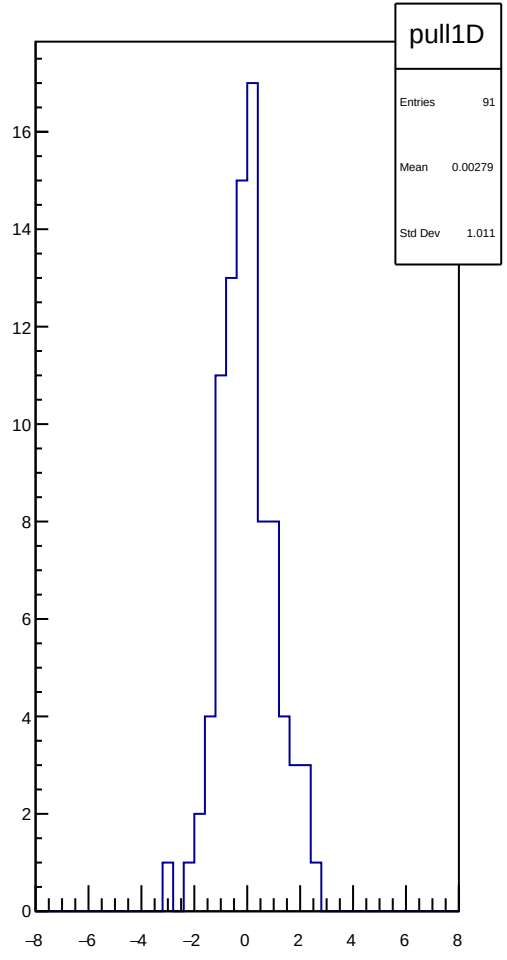

pull1D
Entries 91
Mean −0.02155
Std Dev 0.9259

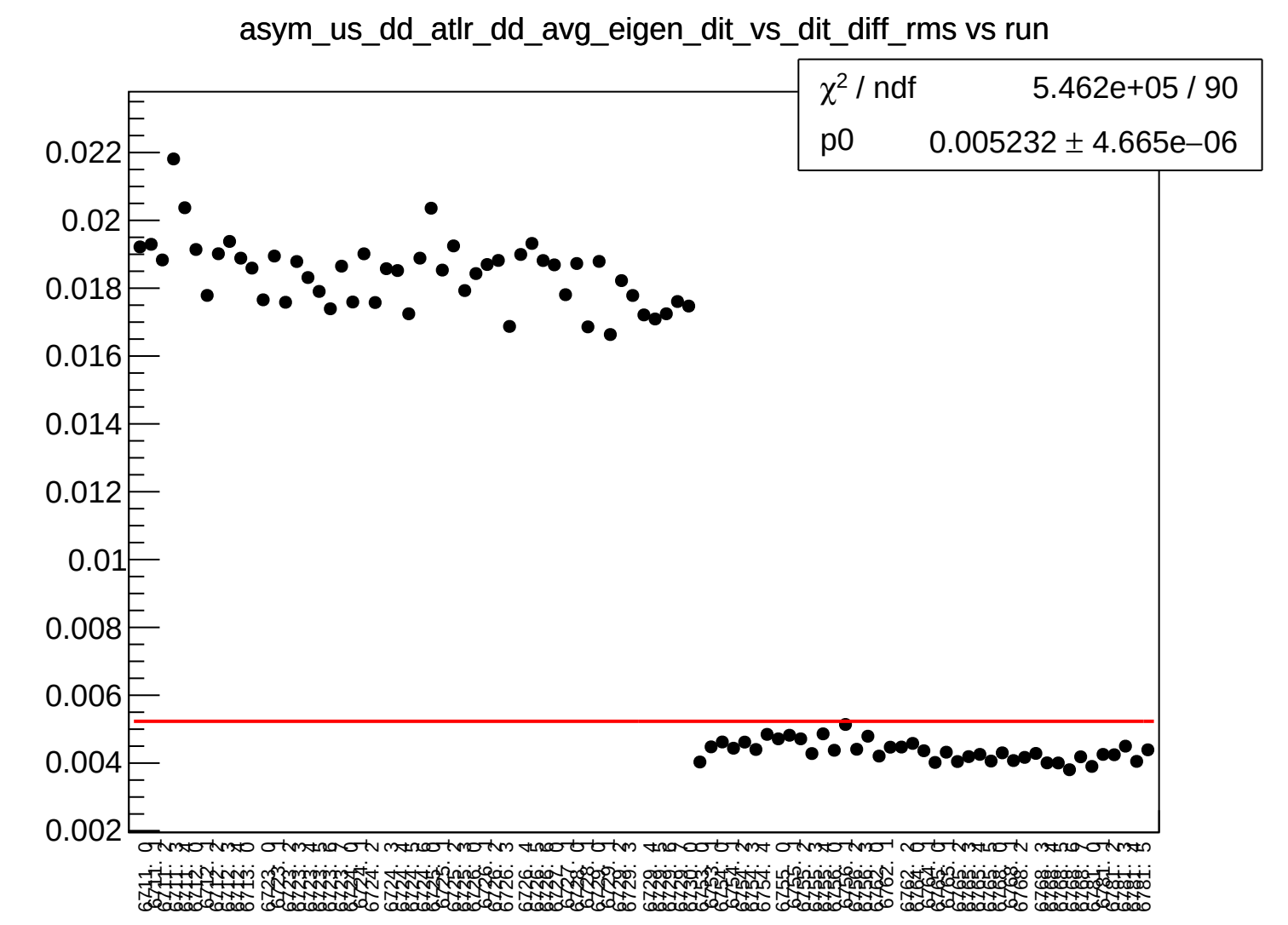

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.955e+05 / 90
p0 53.11 ± 0.04474
140
120
100
80
60
40
20

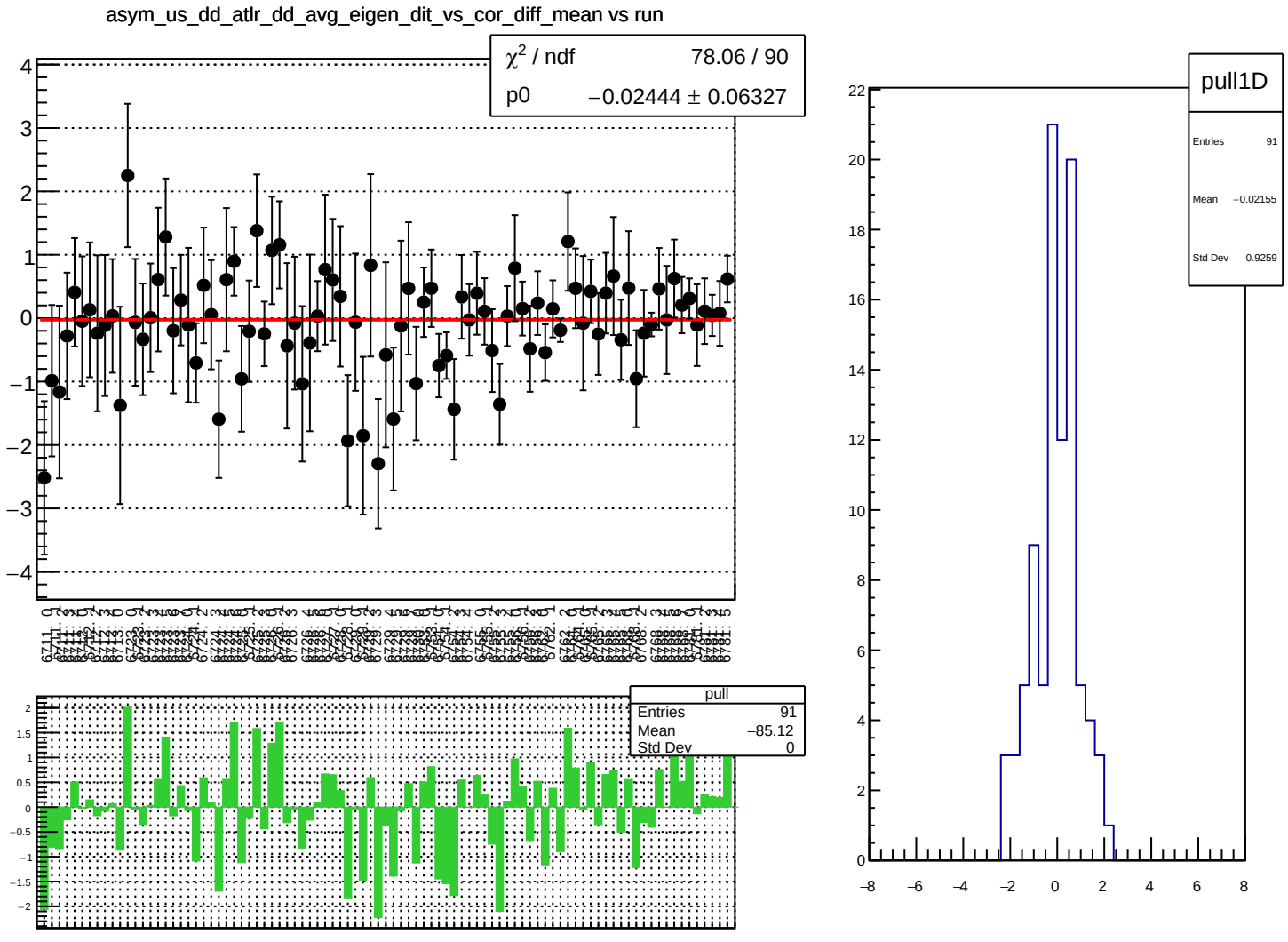

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.06 / 90
p0 −0.02443 ± 0.06328
pull
Entries 91
Mean −85.1
Std Dev 0
pull1D
Entries 91
Mean −0.02155
Std Dev 0.9259

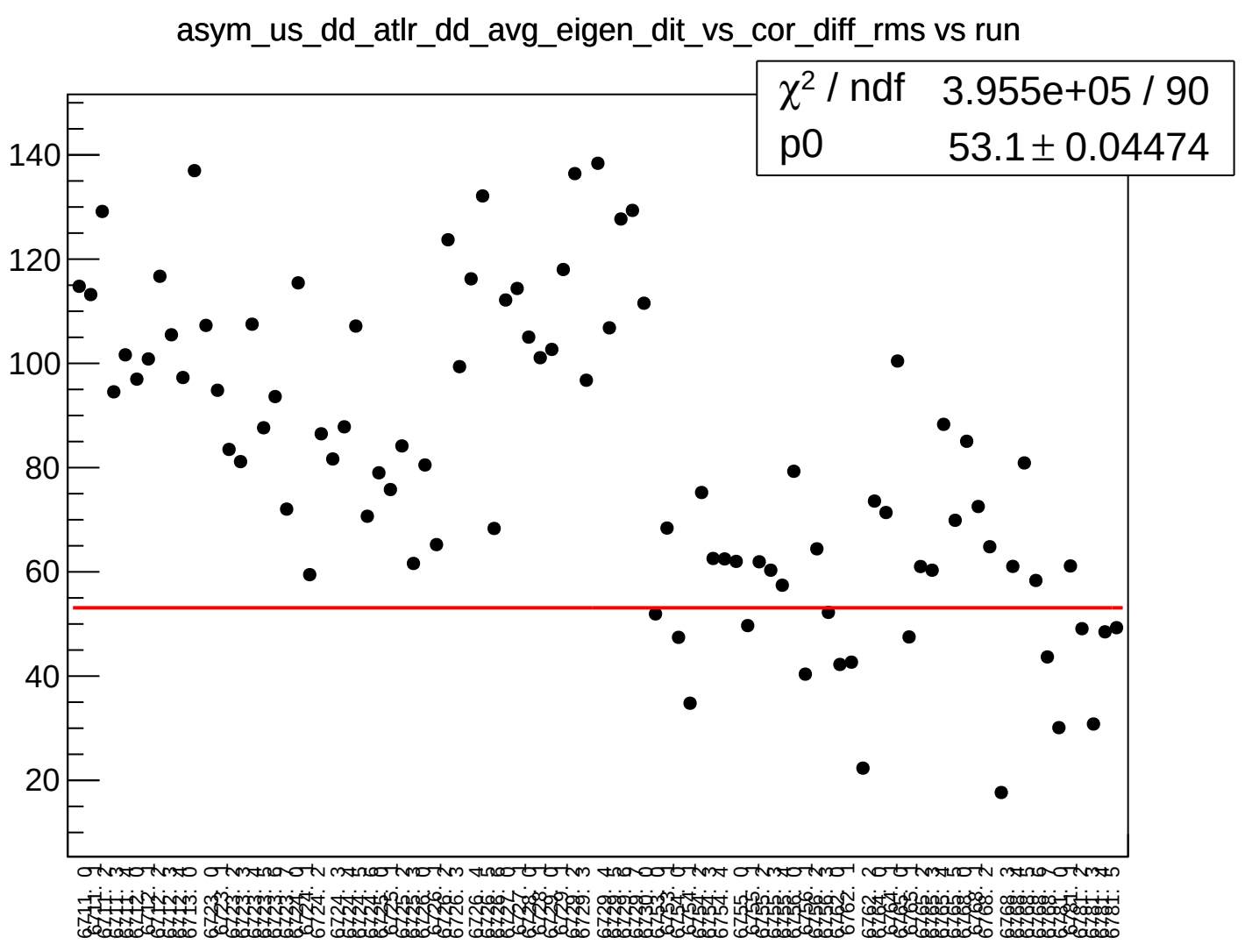

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.955e+05 / 90
p0 53.11 ± 0.04474
140
120
100
80
60
40
20

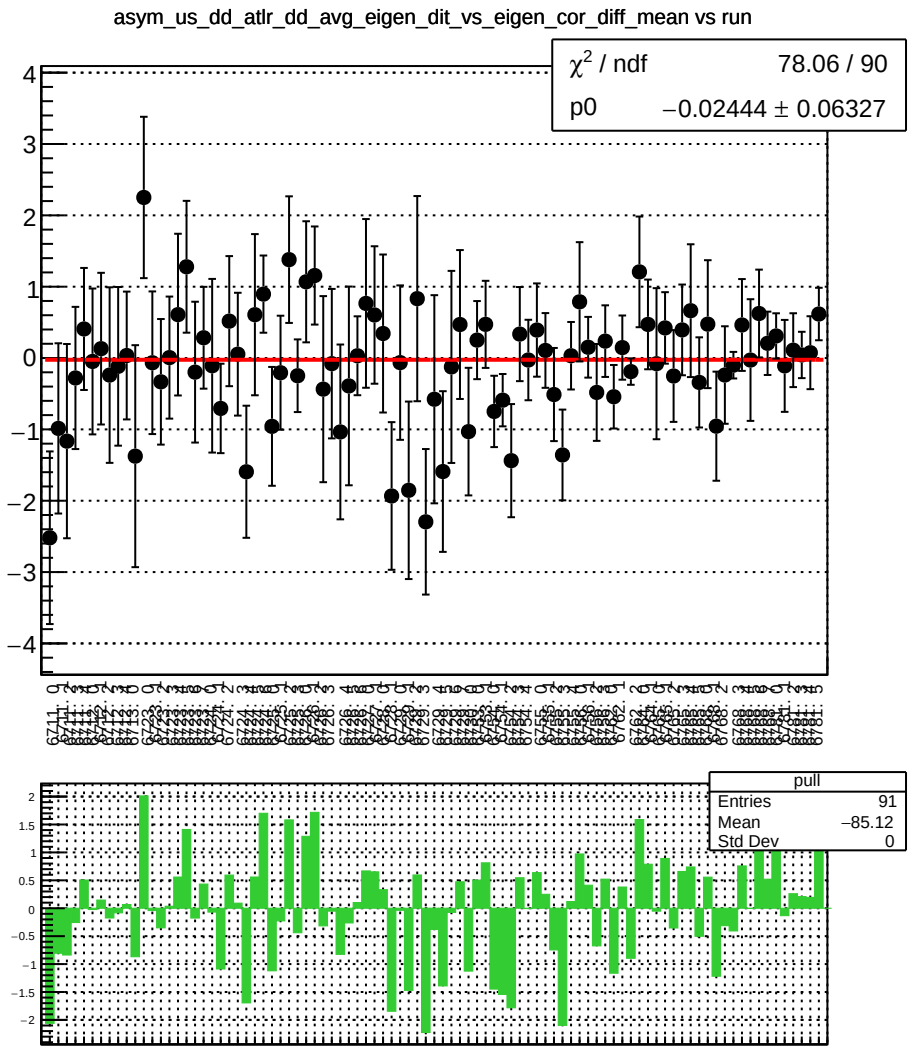

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.05 / 90
p0 −3.431e−06 ± 6.597e−06
pull
Entries 91
Mean 326.9
Std Dev 0

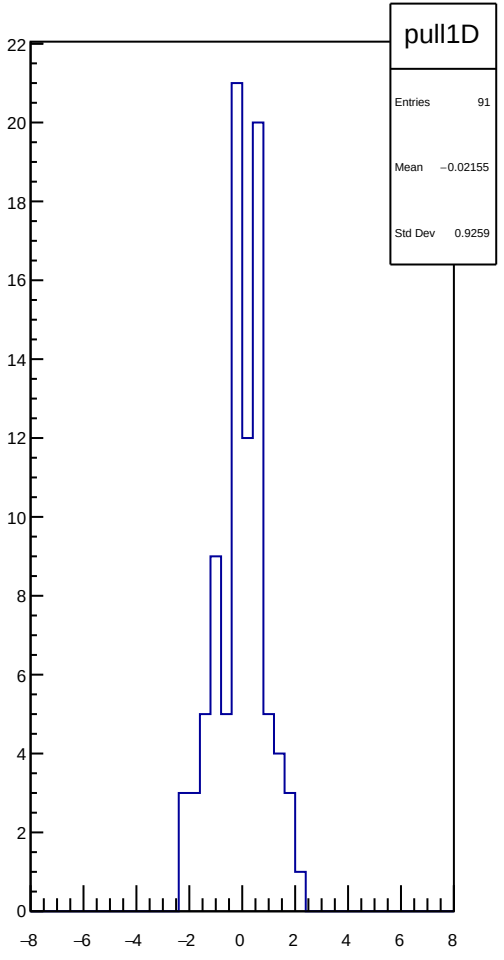

pull1D
Entries 91
Mean 0.00279
Std Dev 1.011

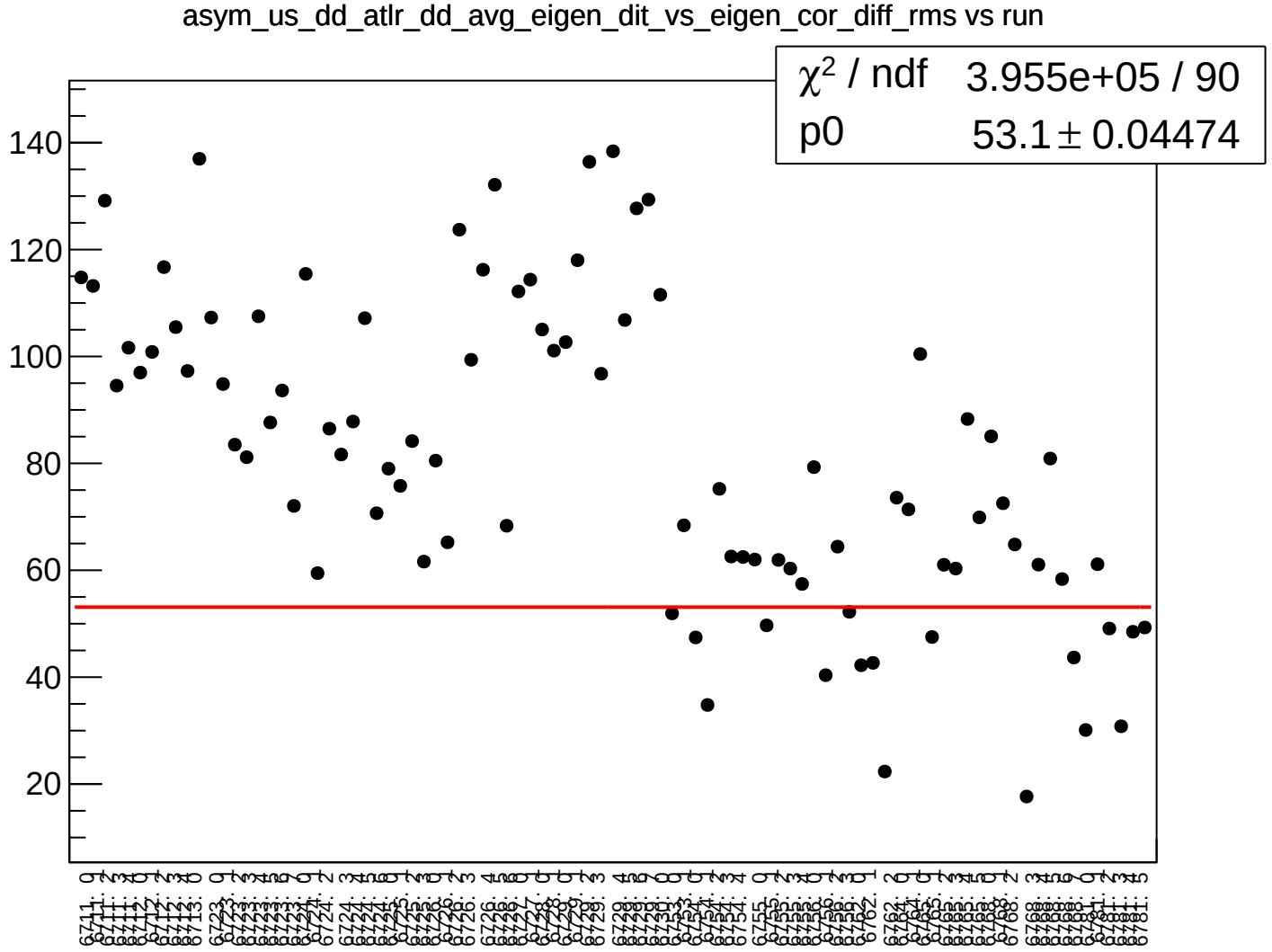

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.462e+05 / 90
p0 0.005232 ± 4.665e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

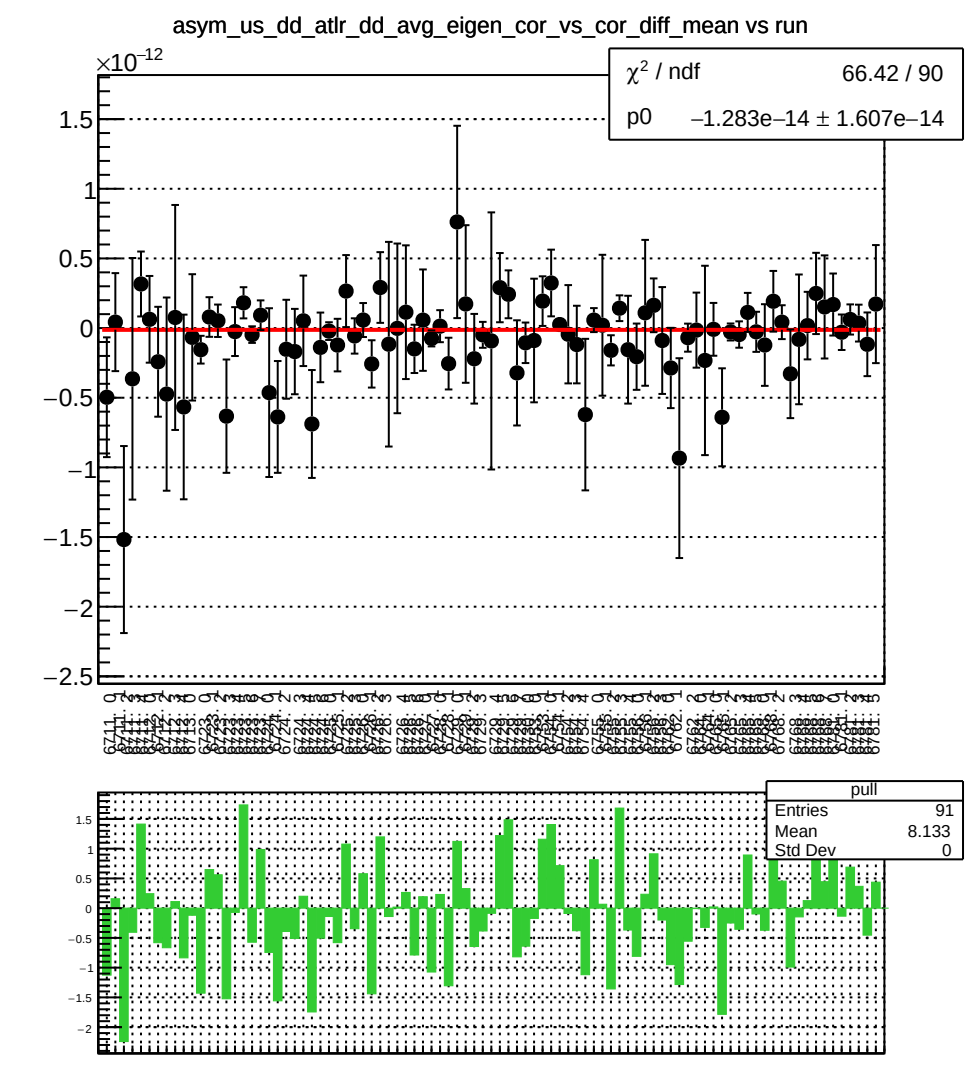

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.06 / 90
p0 −0.02444 ± 0.06327
pull
Entries 91
Mean −85.12
Std Dev 0
pull1D
Entries 91
Mean −0.02155
Std Dev 0.9259

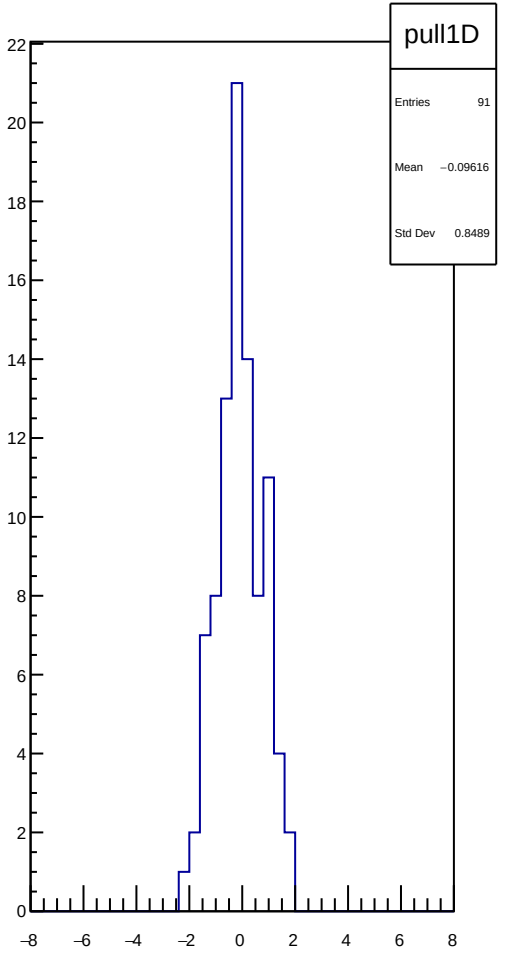

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.955e+05 / 90
p0 53.1 ± 0.04474
140
120
100
80
60
40
20

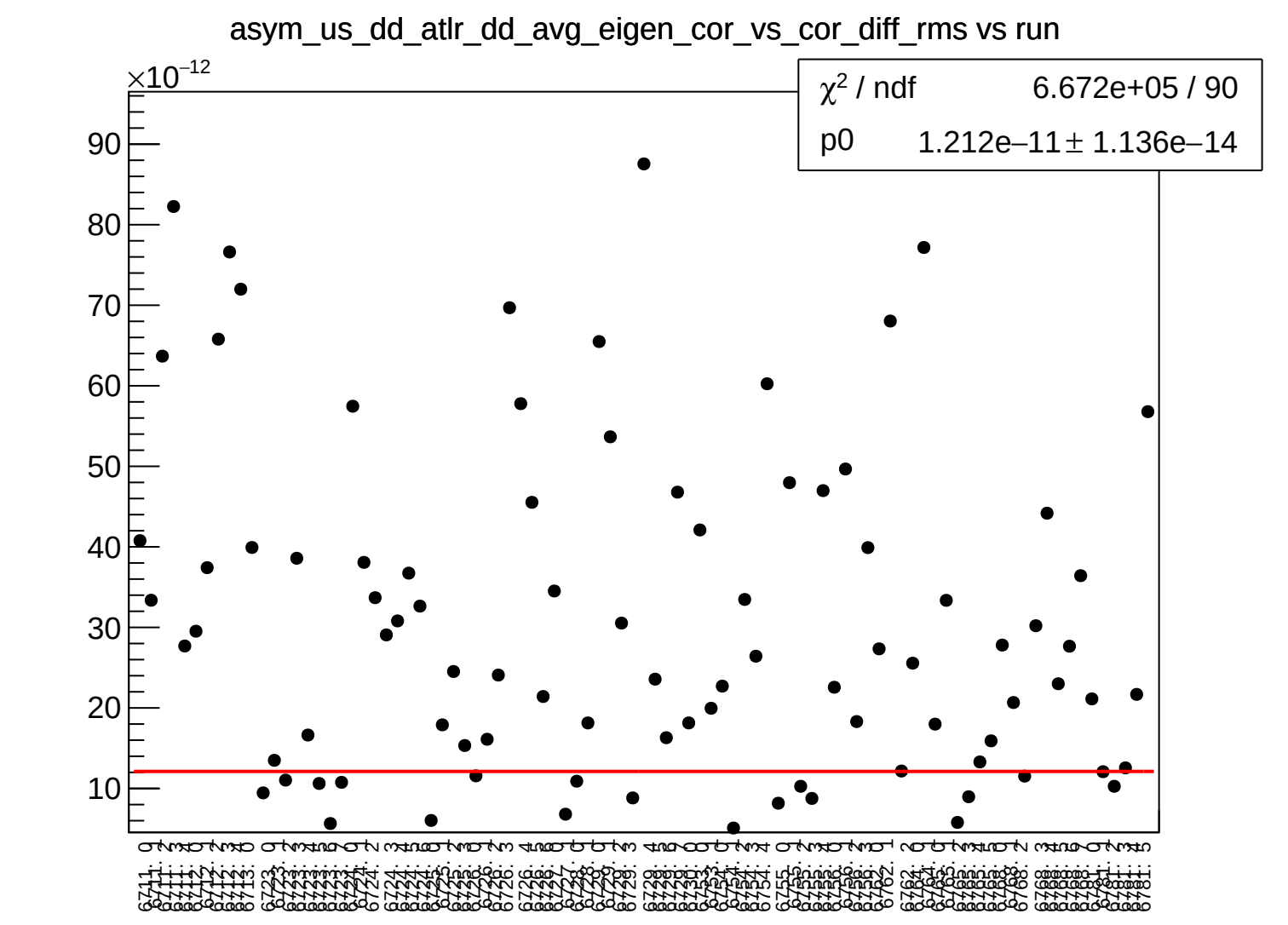

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.06 / 90
p0 −0.02444 ± 0.06327
pull
Entries 91
Mean −85.12
Std Dev 0

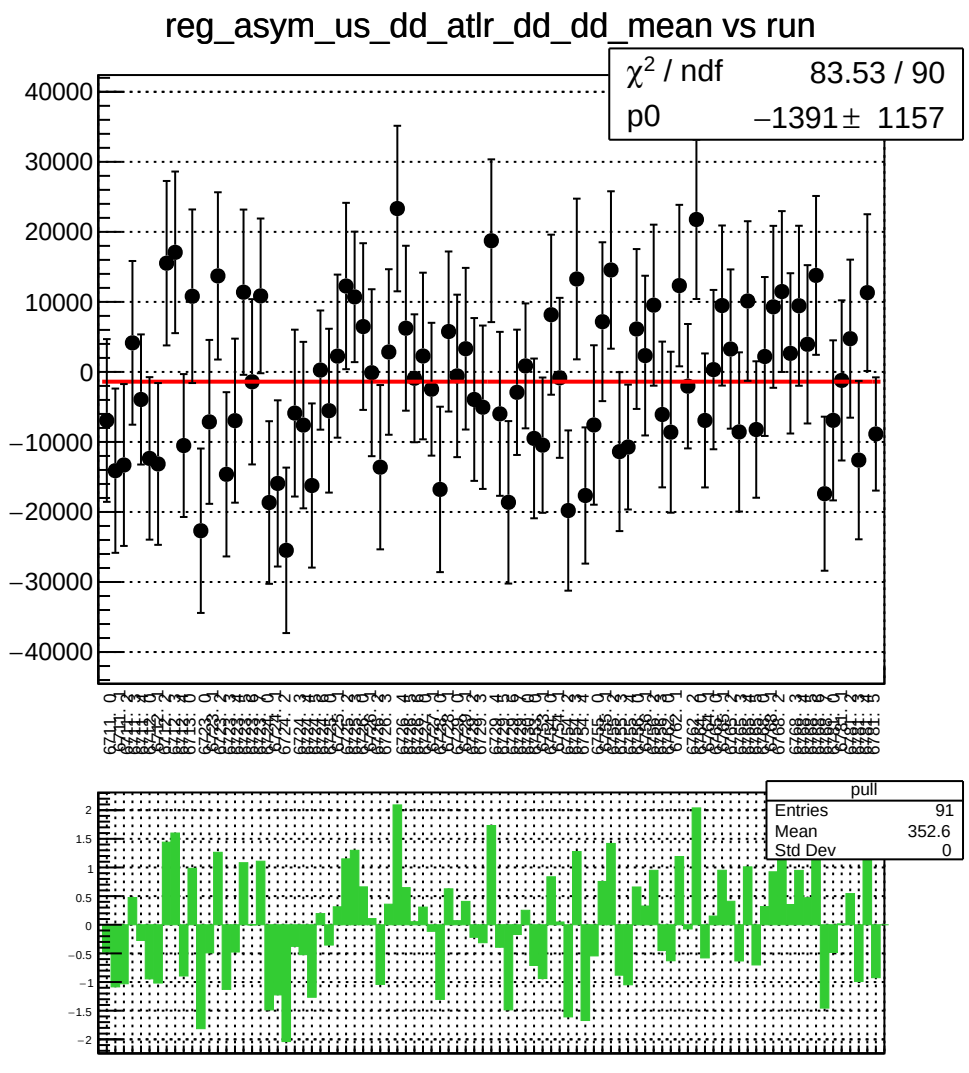

pull1D
Entries 91
Mean −0.02155
Std Dev 0.9259

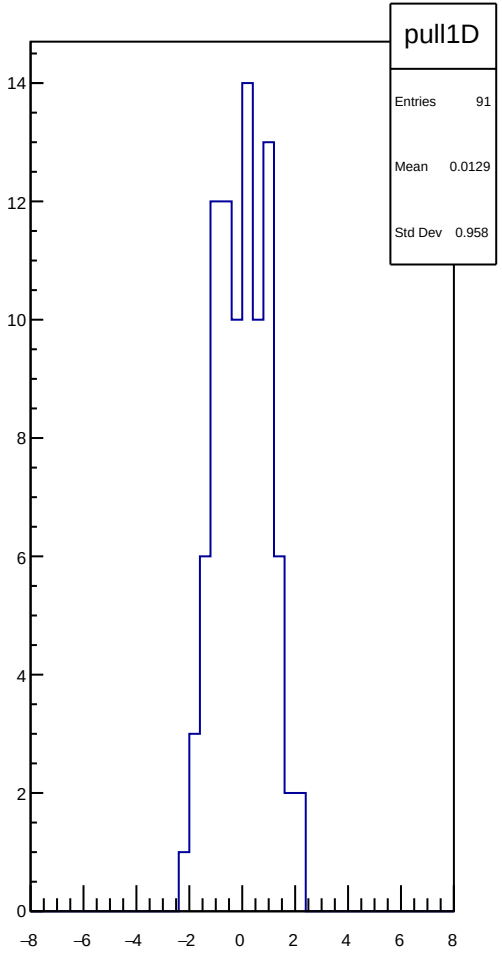

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.955e+05 / 90
p0 53.1 ± 0.04474
140
120
100
80
60
40
20

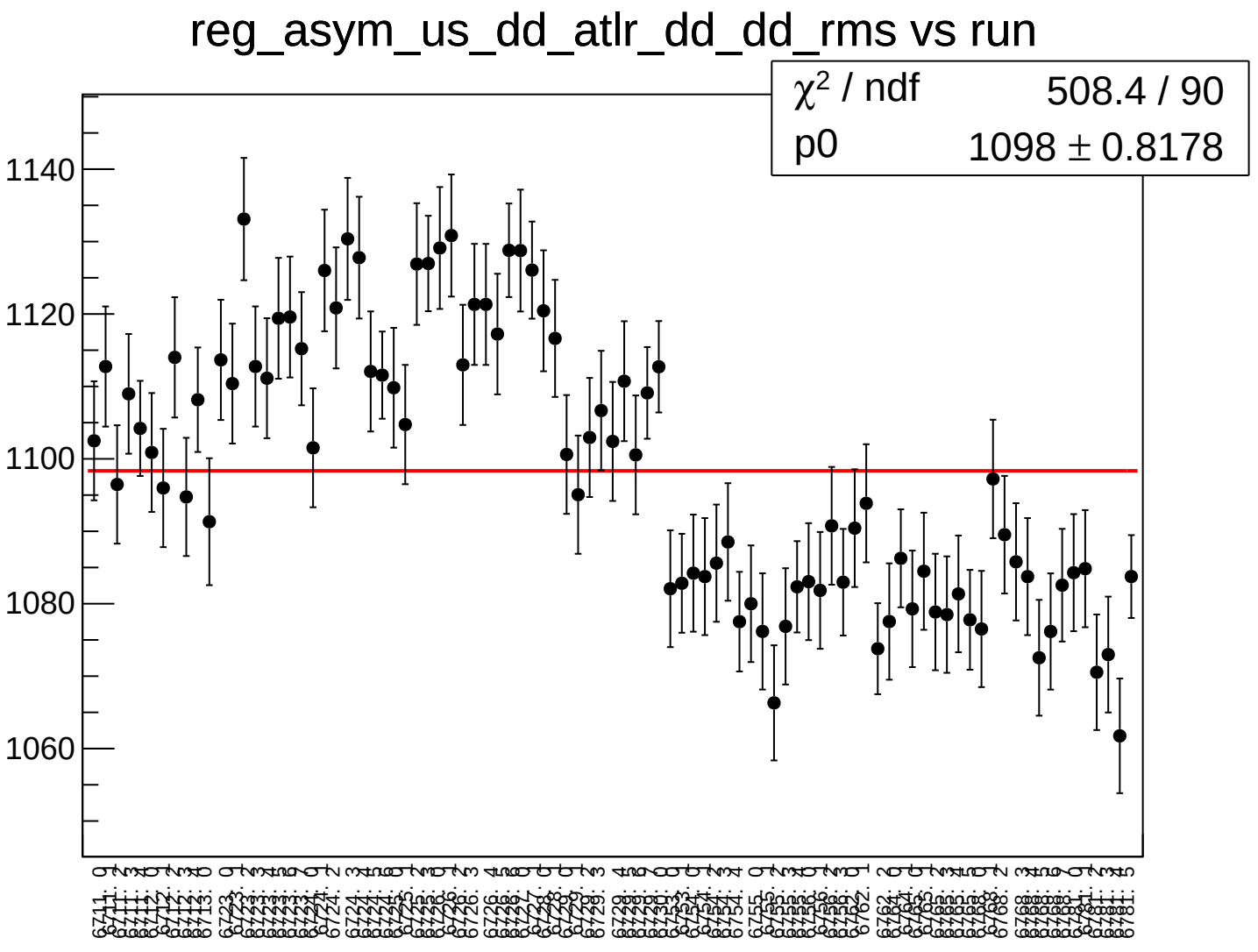

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.42 / 90
p0 −1.283e−14 ± 1.607e−14
pull
Entries 91
Mean 8.133
Std Dev 0

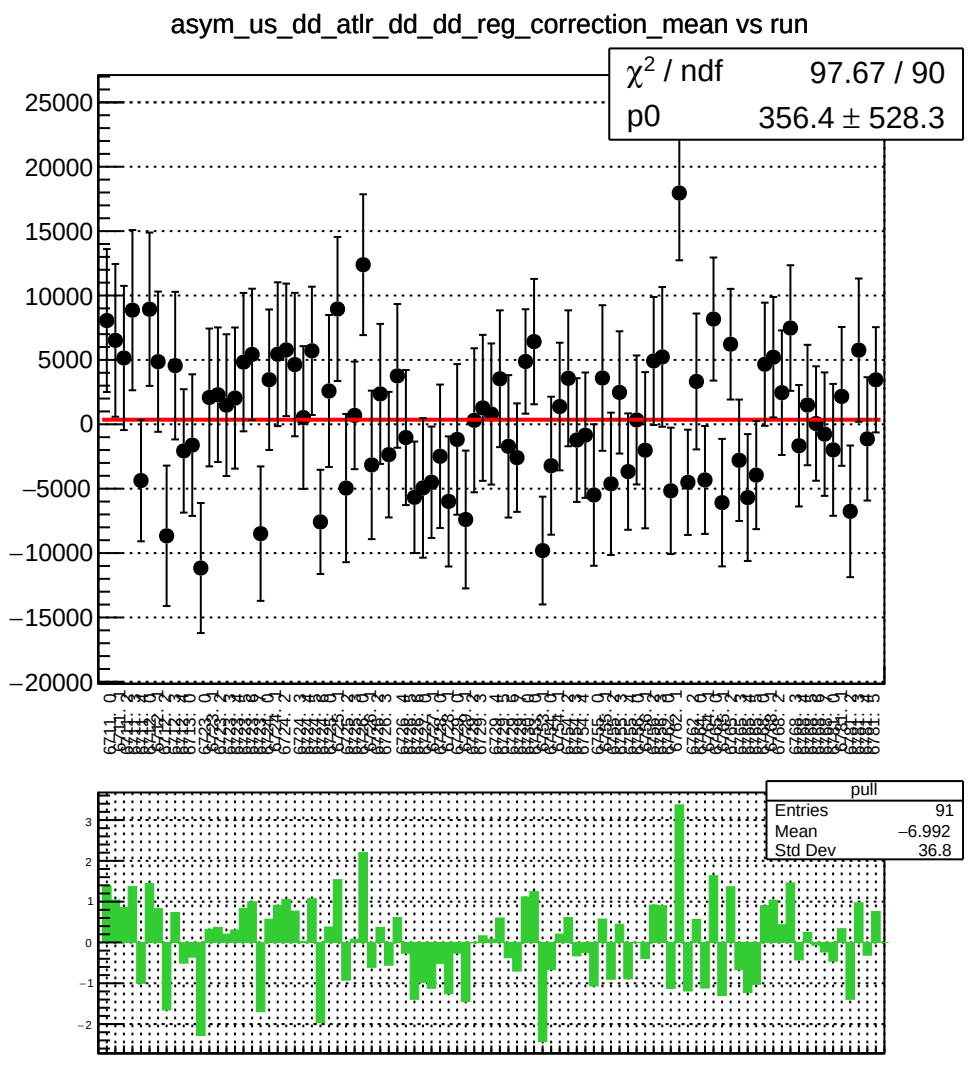

pull1D
Entries 91
Mean −0.09616
Std Dev 0.8489

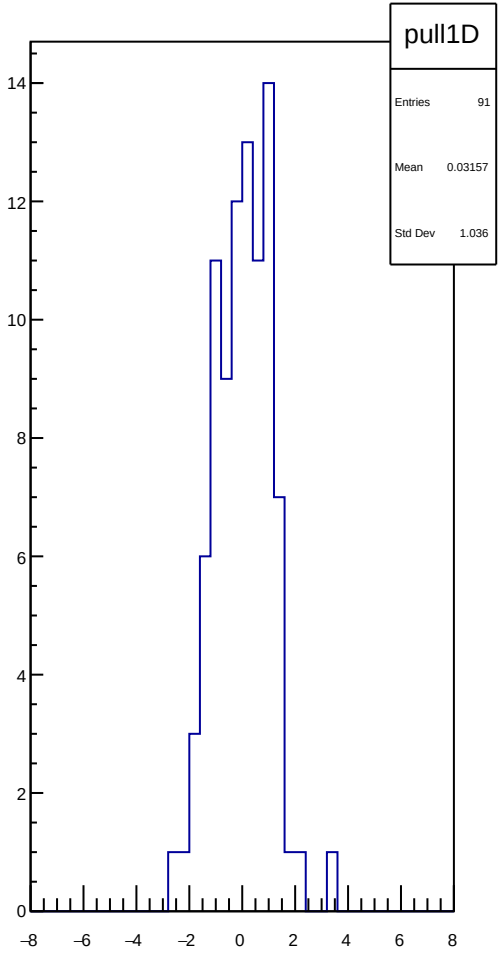

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.672e+05 / 90
p0 1.212e−11 ± 1.136e−14
90
80
70
60
50
40
30
20
10

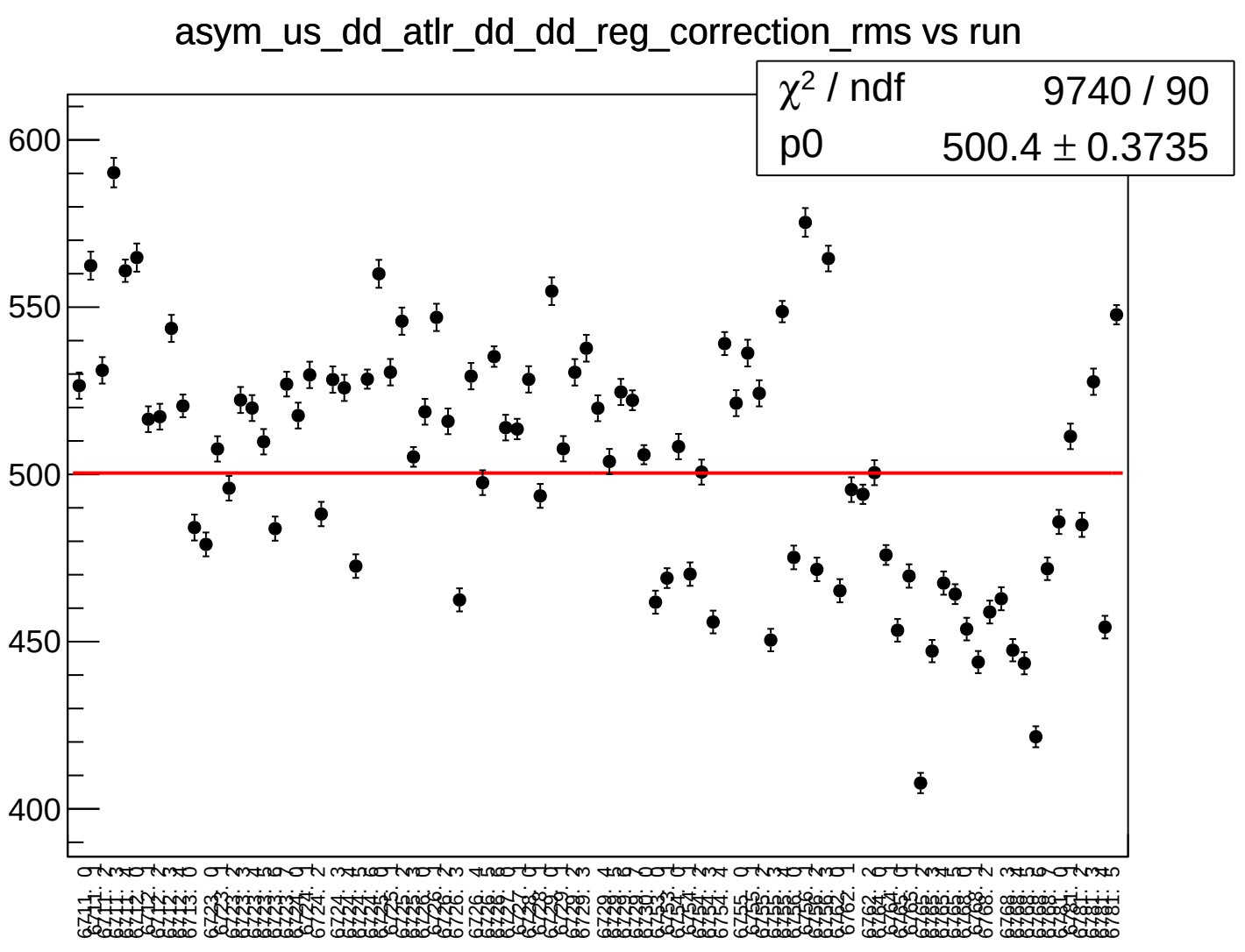

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 83.53 / 90
p0 −1391 ± 1157
pull
Entries 91
Mean 352.6
Std Dev 0

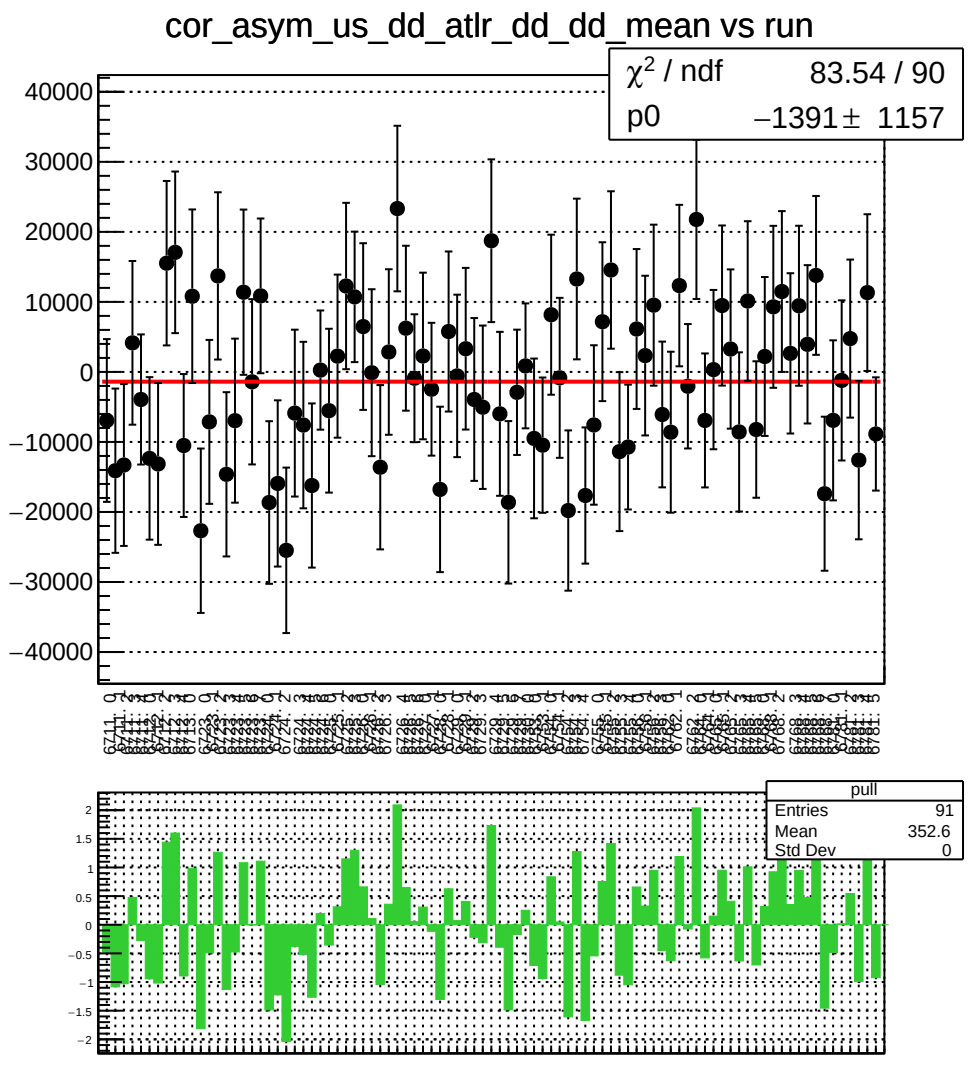

pull1D
Entries 91
Mean 0.0129
Std Dev 0.958

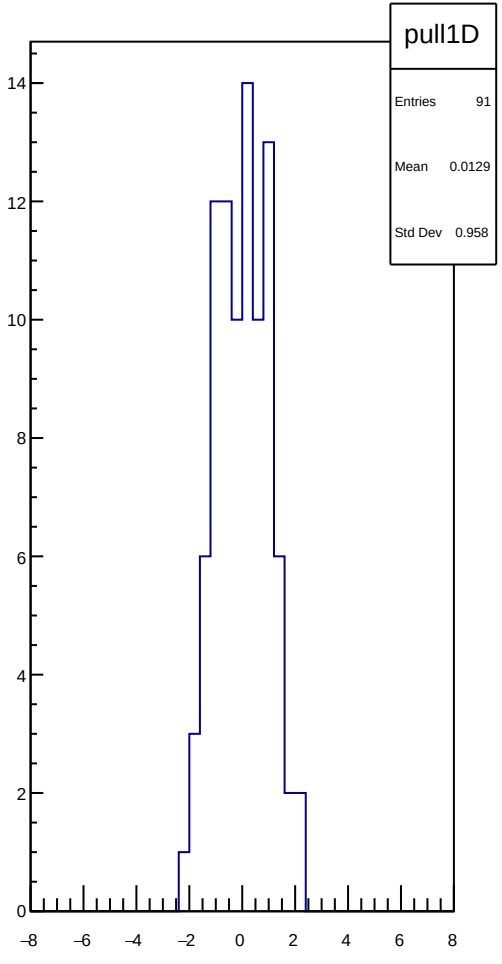

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 508.4 / 90
p0 1098 ± 0.8178
1140
1120
1100
1080
1060

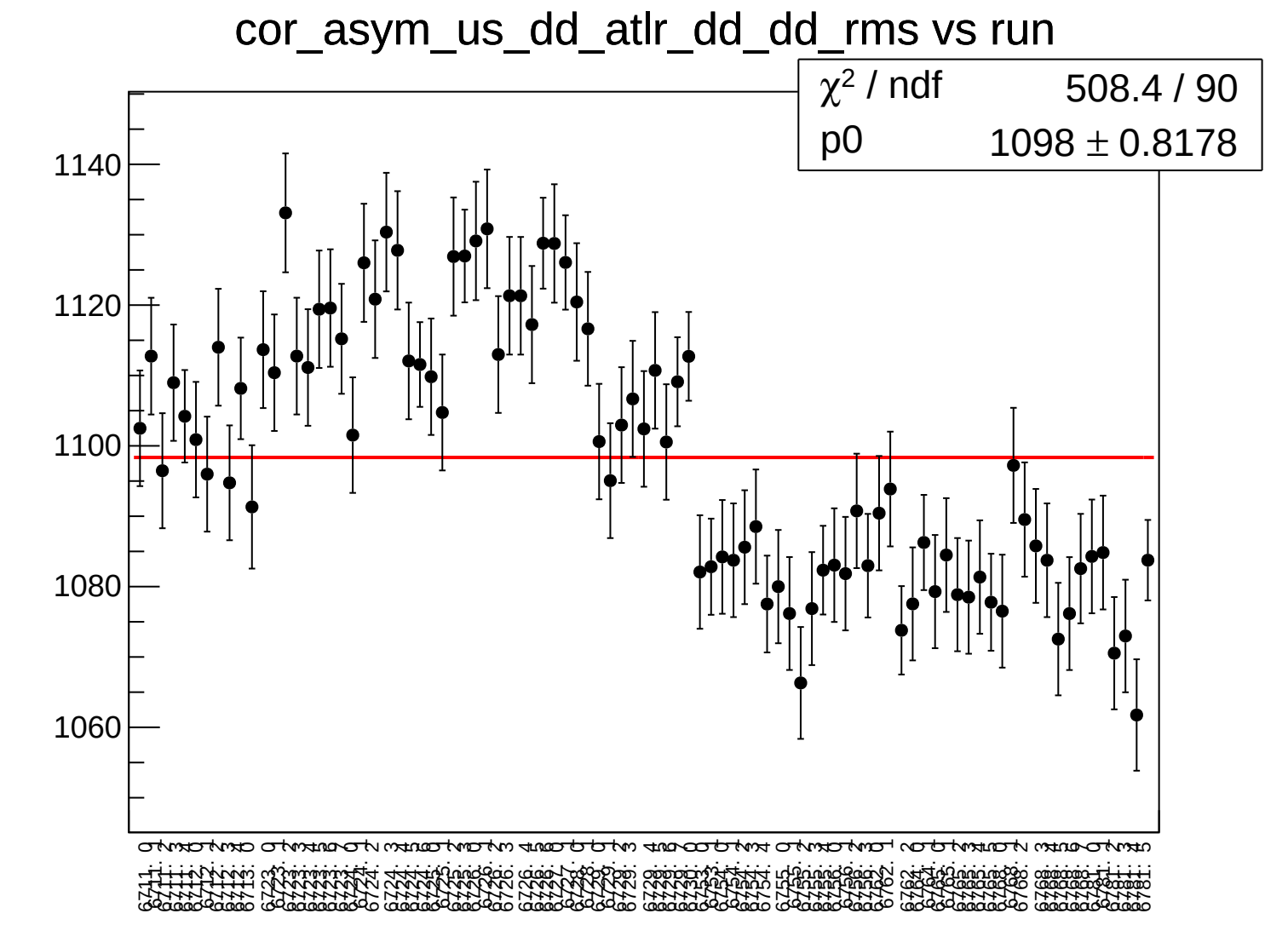

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 97.67 / 90
p0 356.4 ± 528.3
pull
Entries 91
Mean −6.992
Std Dev 36.8

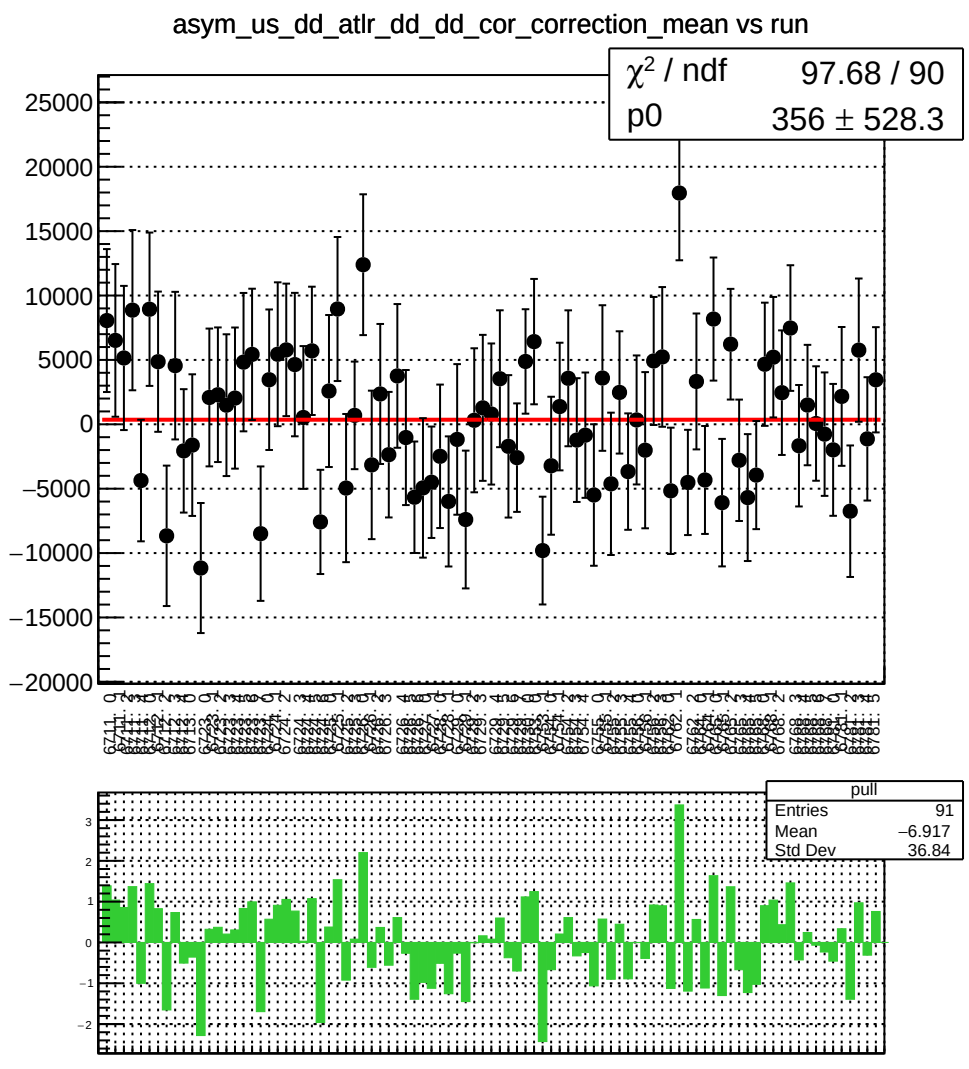

pull1D
Entries 91
Mean 0.03157
Std Dev 1.036

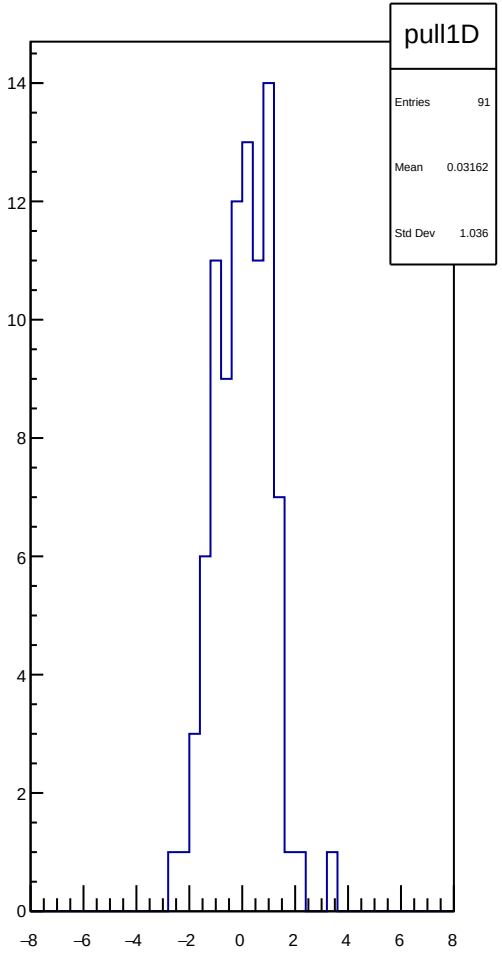

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 9740 / 90
p0 500.4 ± 0.3735
600
550
500
450
400

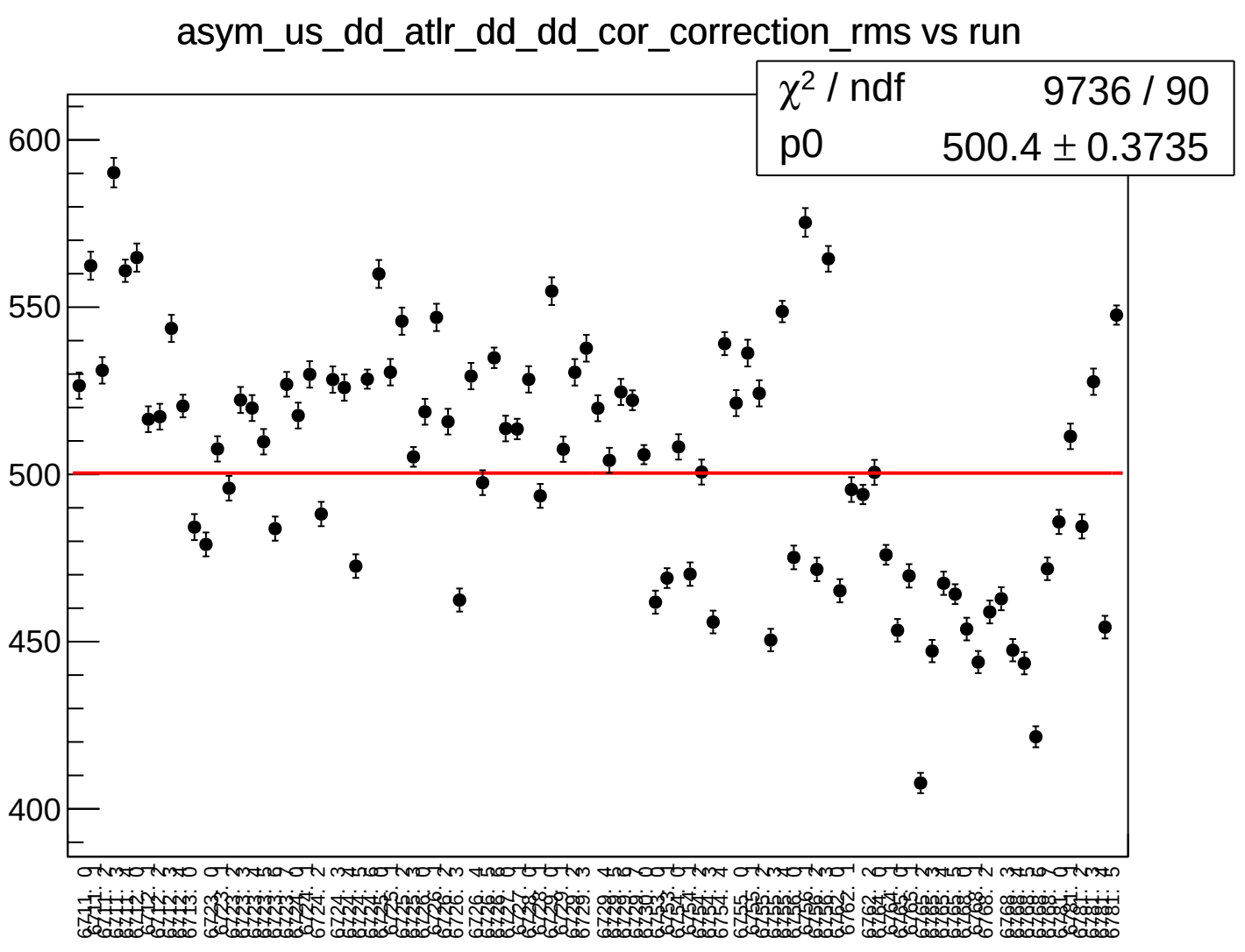

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 83.54 / 90
p0 −1391 ± 1157
pull
Entries 91
Mean 352.6
Std Dev 0

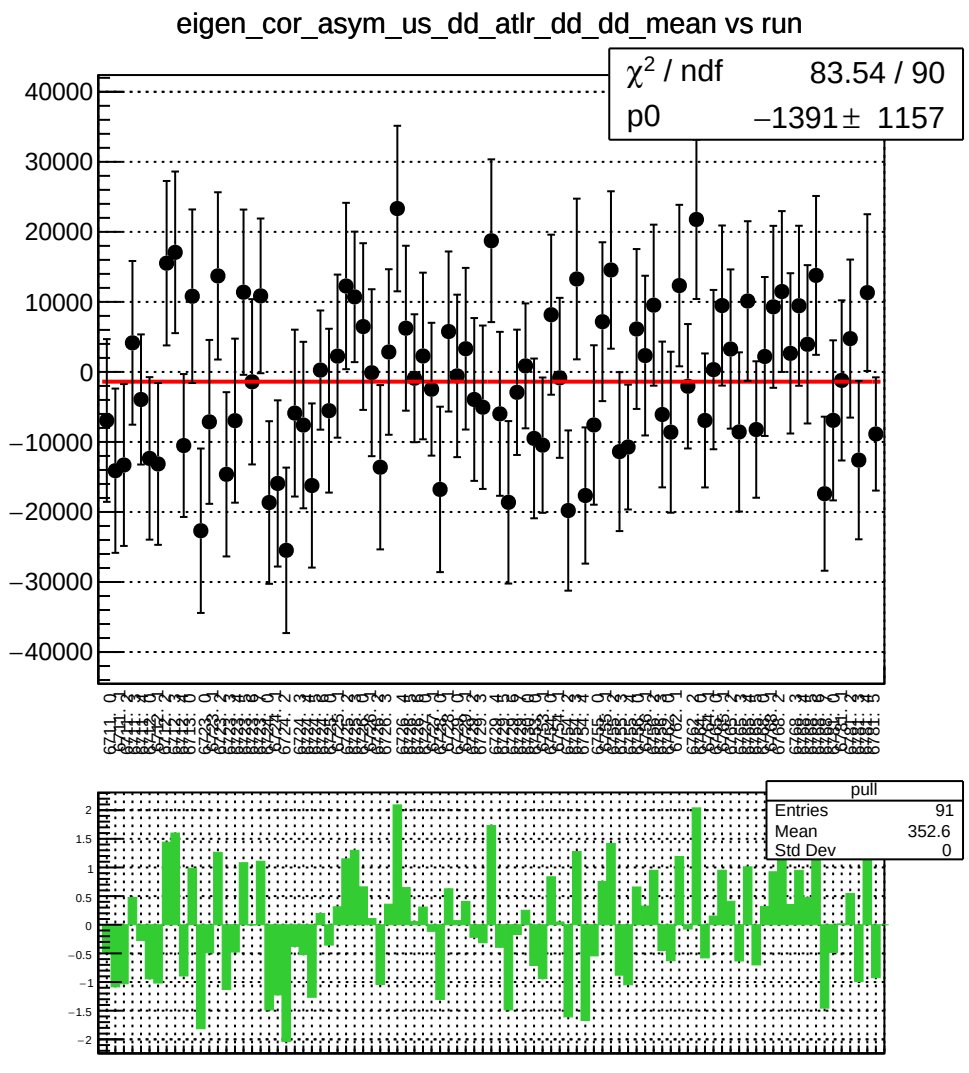

pull1D
Entries 91
Mean 0.0129
Std Dev 0.958

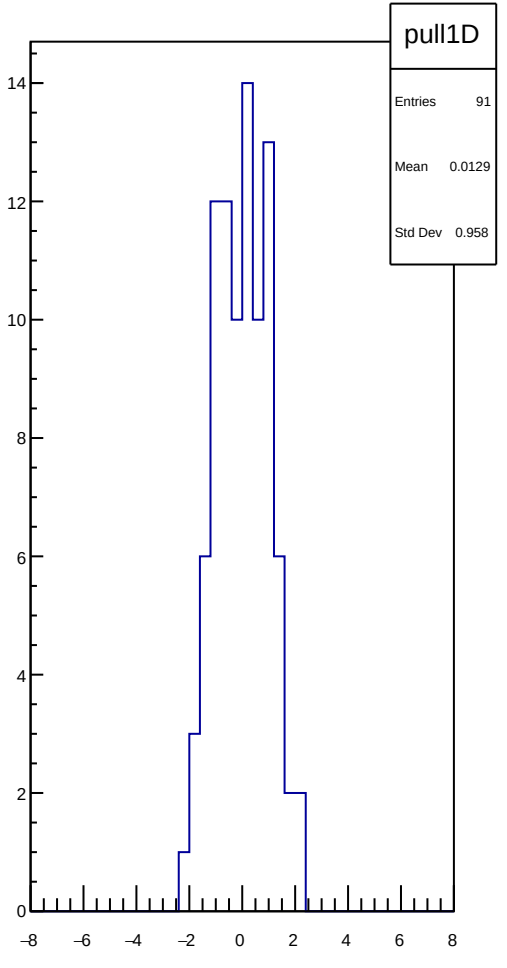

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 508.4 / 90
p0 1098 ± 0.8178
1140
1120
1100
1080
1060

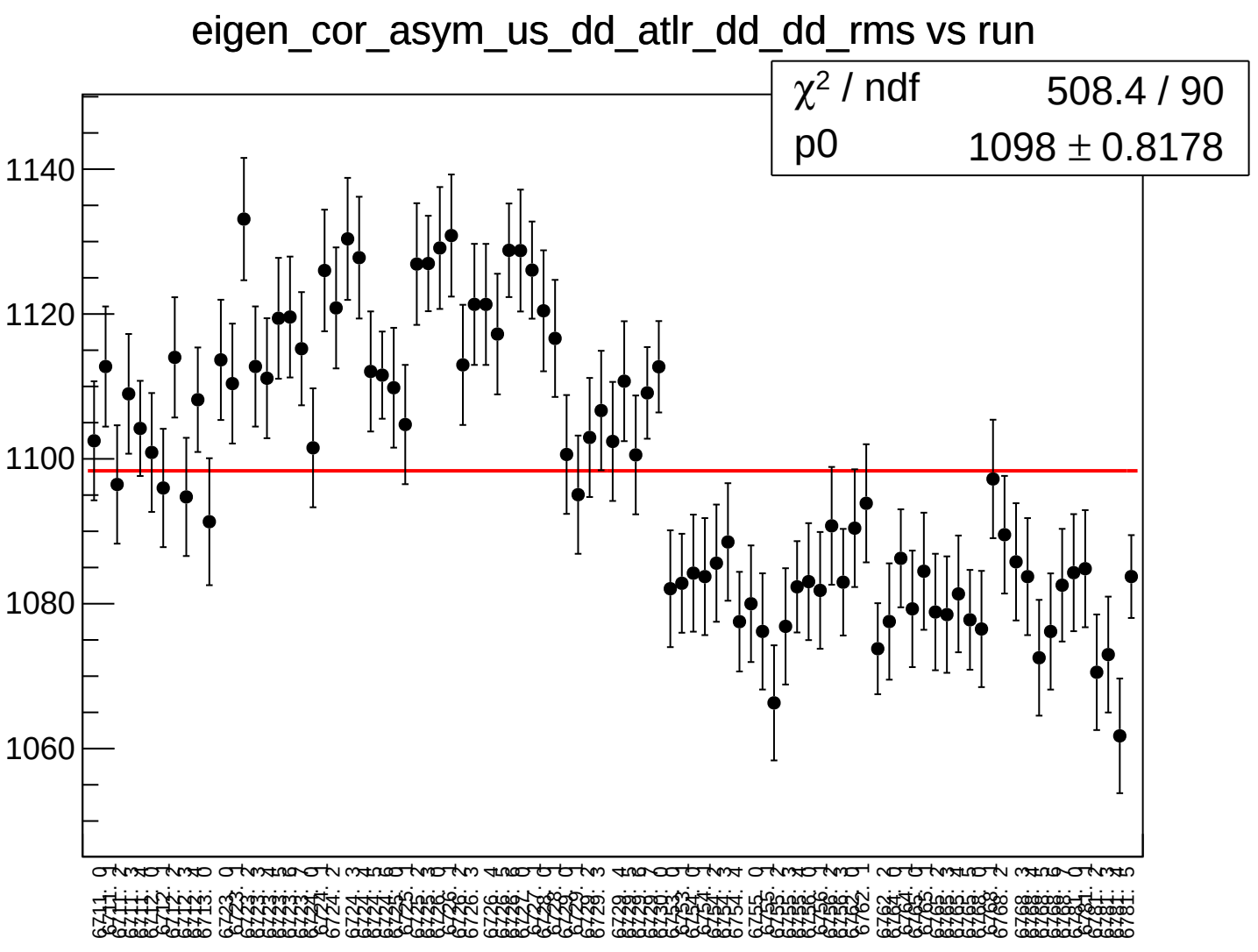

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 97.68 / 90
p0 356 ± 528.3
pull
Entries 91
Mean −6.917
Std Dev 36.84

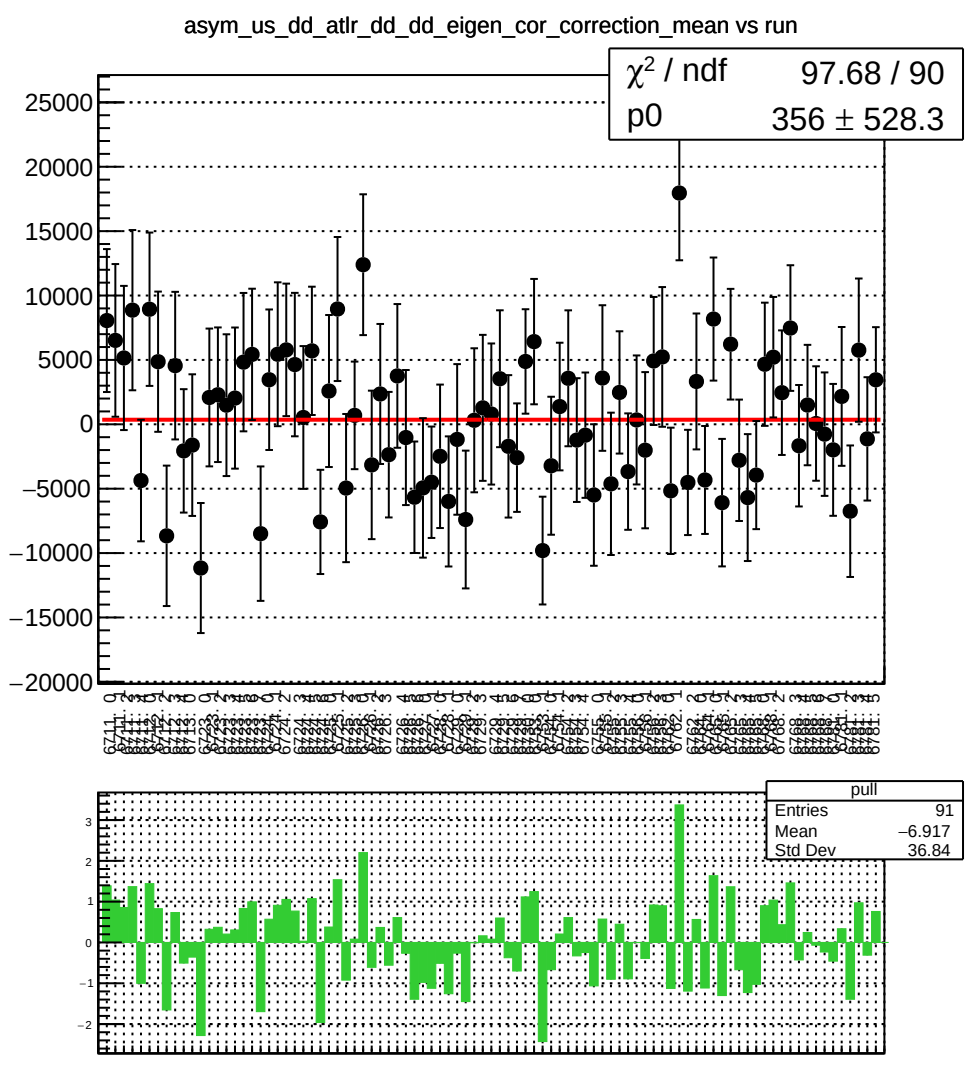

pull1D
Entries 91
Mean 0.03162
Std Dev 1.036

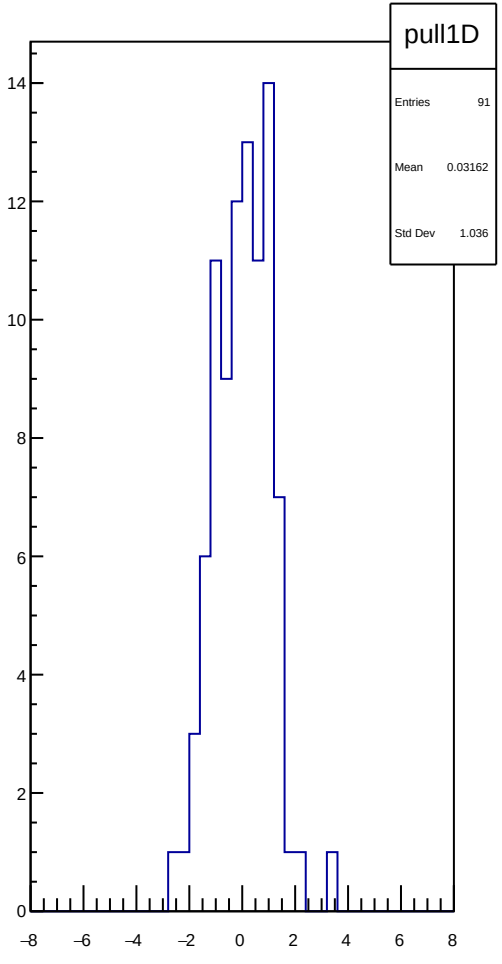

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 9736 / 90
p0 500.4 ± 0.3735
600
550
500
450
400

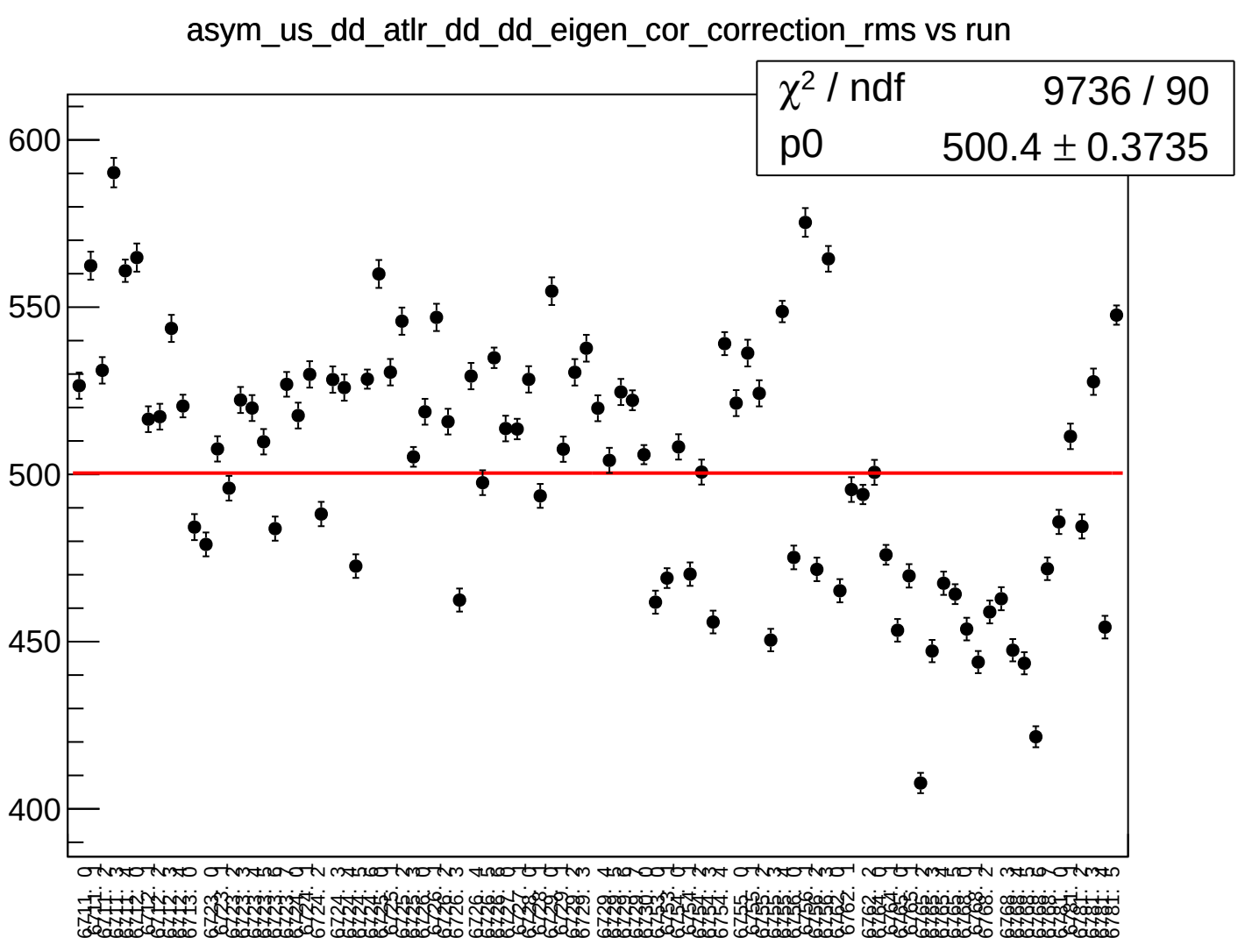

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 83.54 / 90
p0 −1391 ± 1157
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 352.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

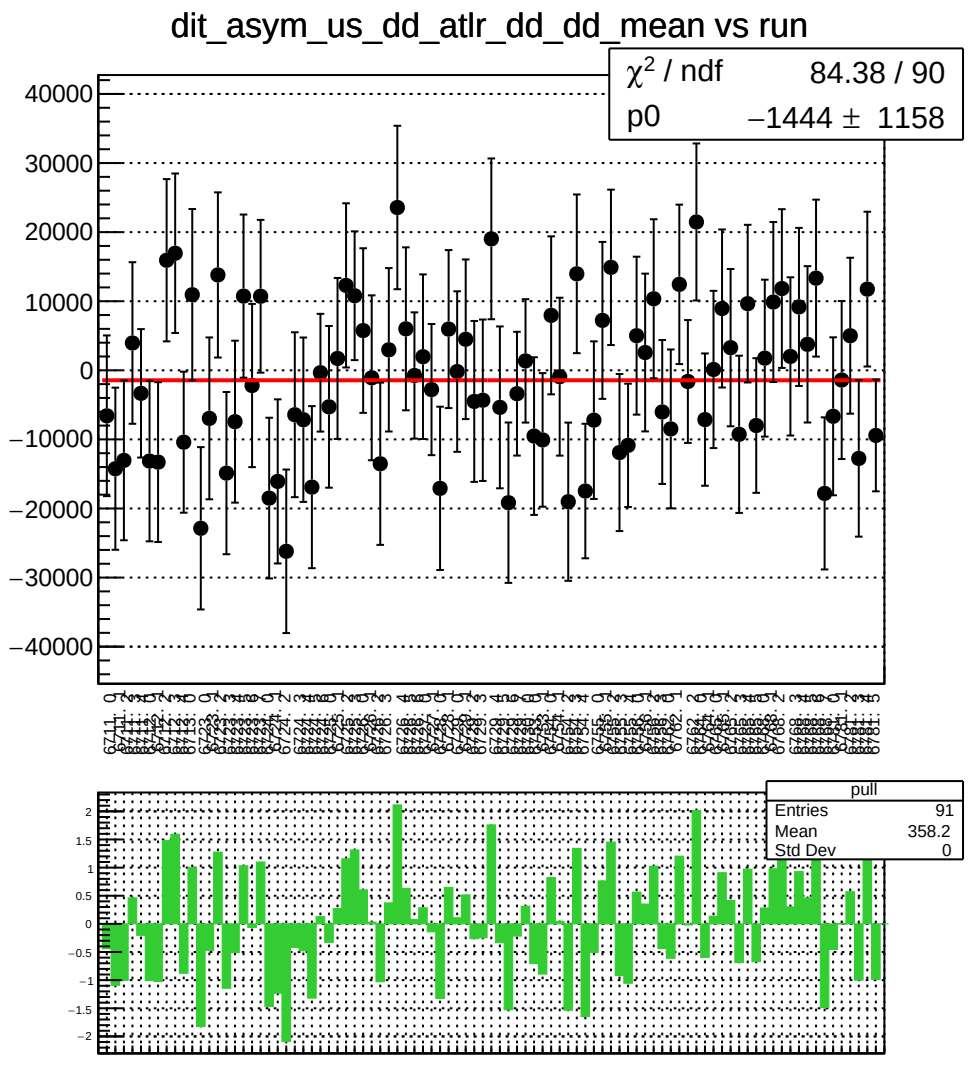

pull1D
Entries 91
Mean 0.0129
Std Dev 0.958
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

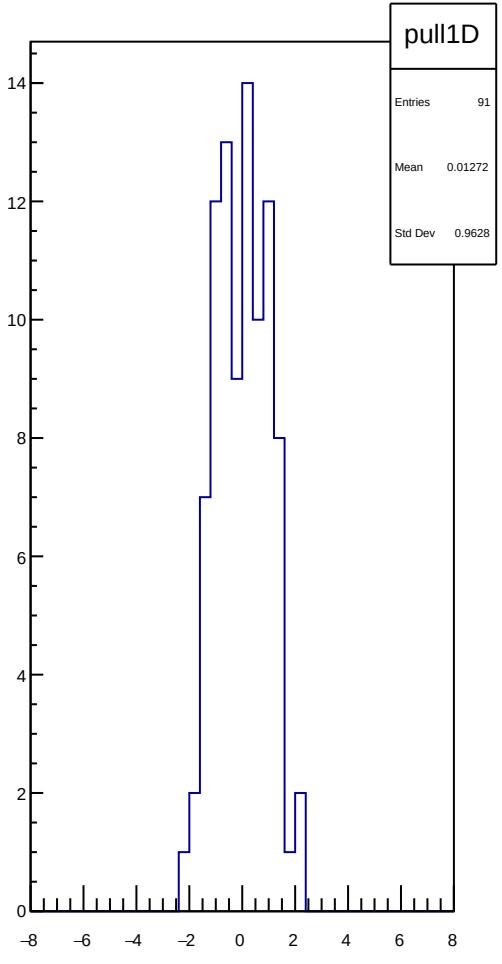

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 508.4 / 90
p0 1098 ± 0.8178
1140
1120
1100
1080
1060

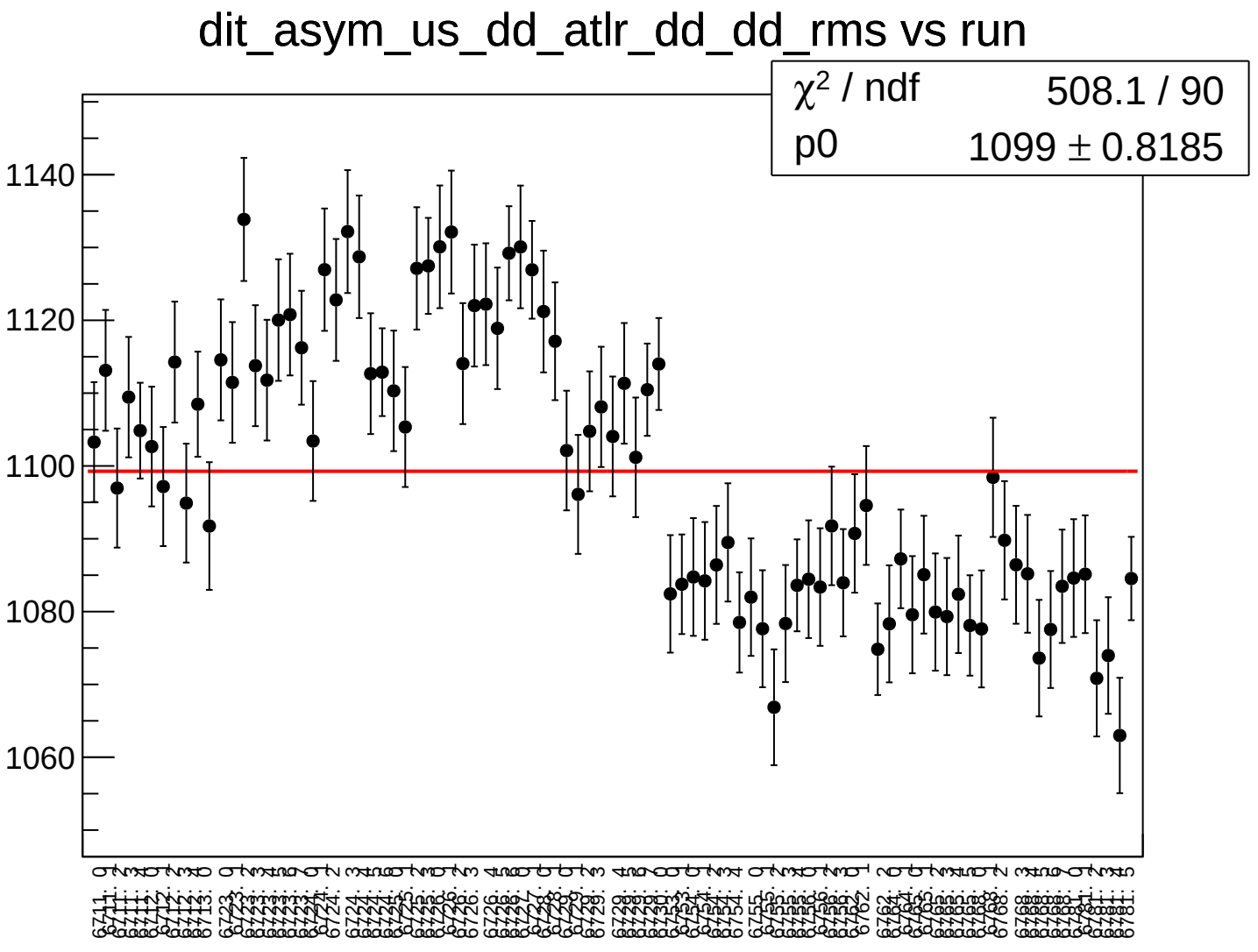

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.68 / 90
p0 356 ± 528.3
pull
Entries 91
Mean −6.917
Std Dev 36.84

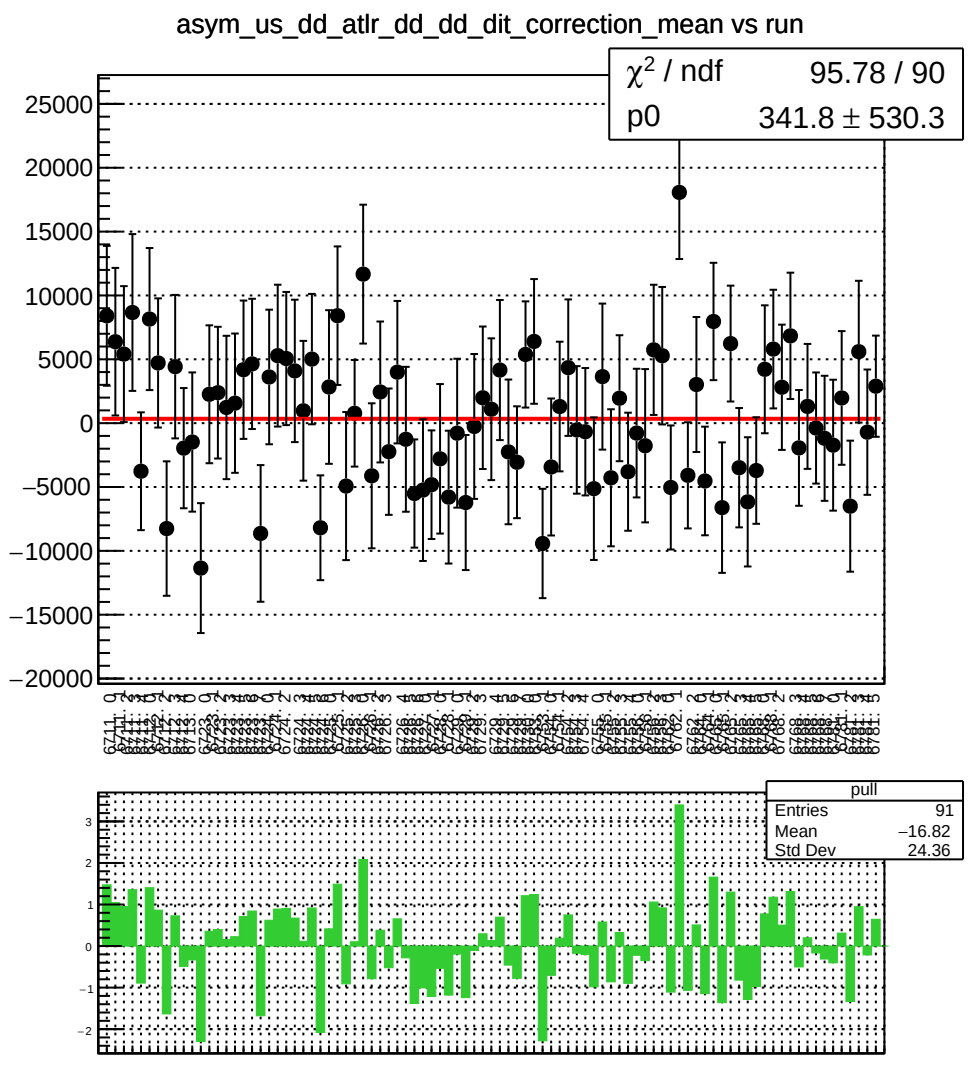

pull1D
Entries 91
Mean 0.03162
Std Dev 1.036

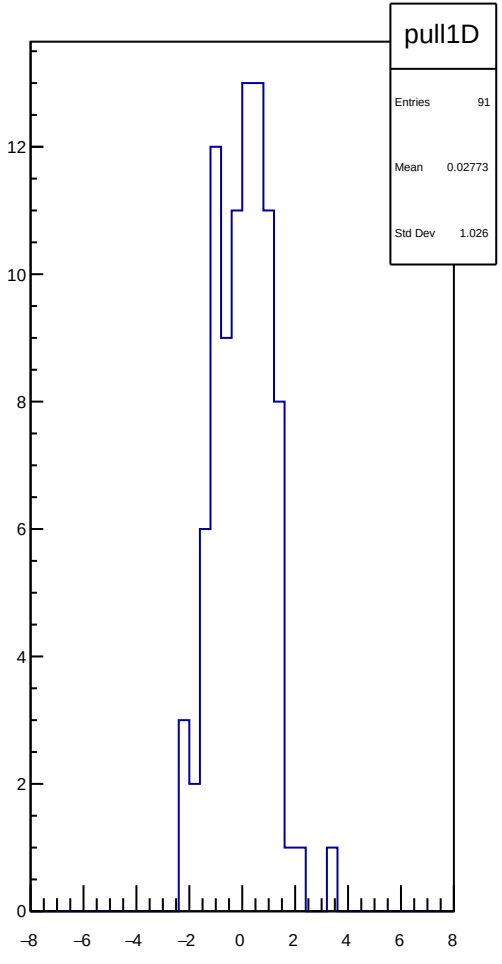

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 9736 / 90
p0 500.4 ± 0.3735
600
550
500
450
400

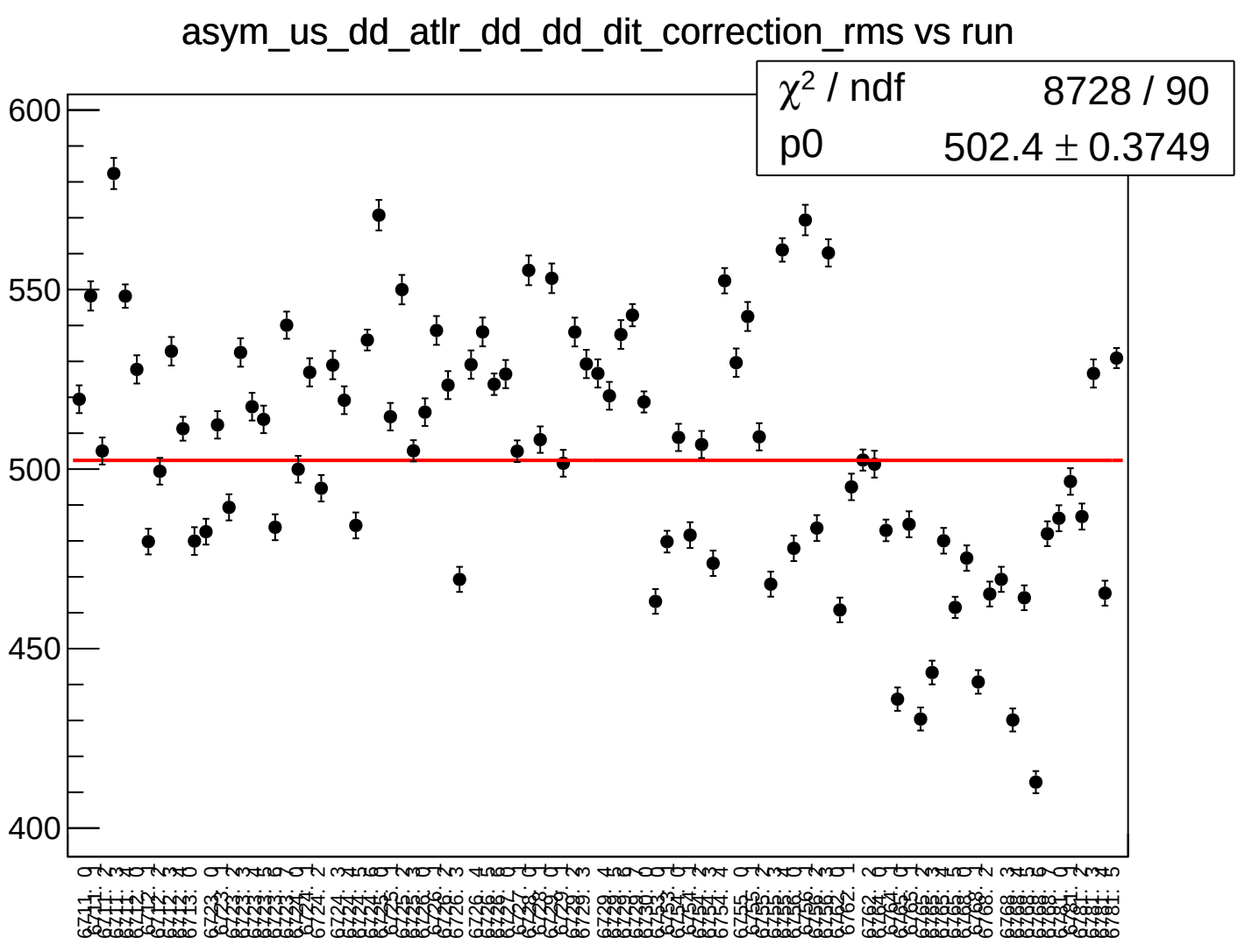

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 84.38 / 90
p0 −1444 ± 1158
pull
Entries 91
Mean 358.2
Std Dev 0

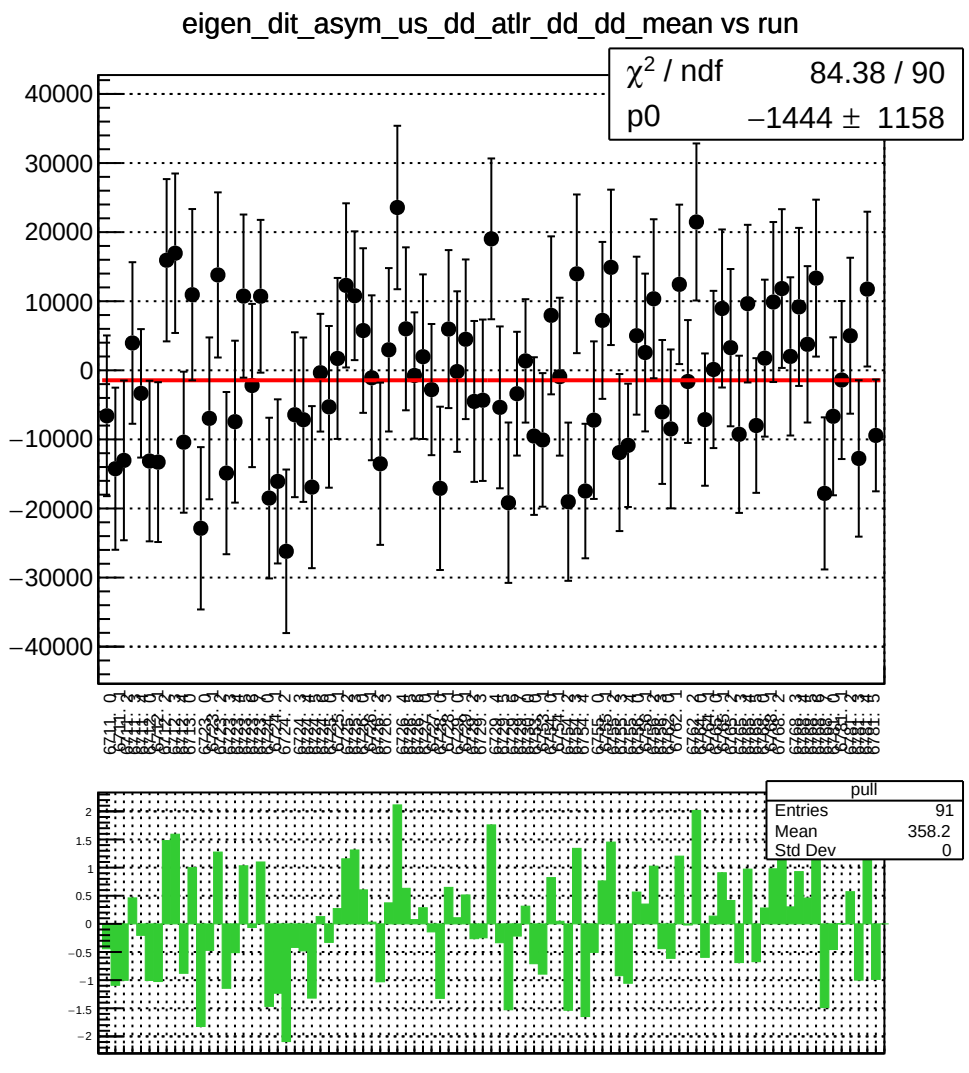

pull1D
Entries 91
Mean 0.01272
Std Dev 0.9628

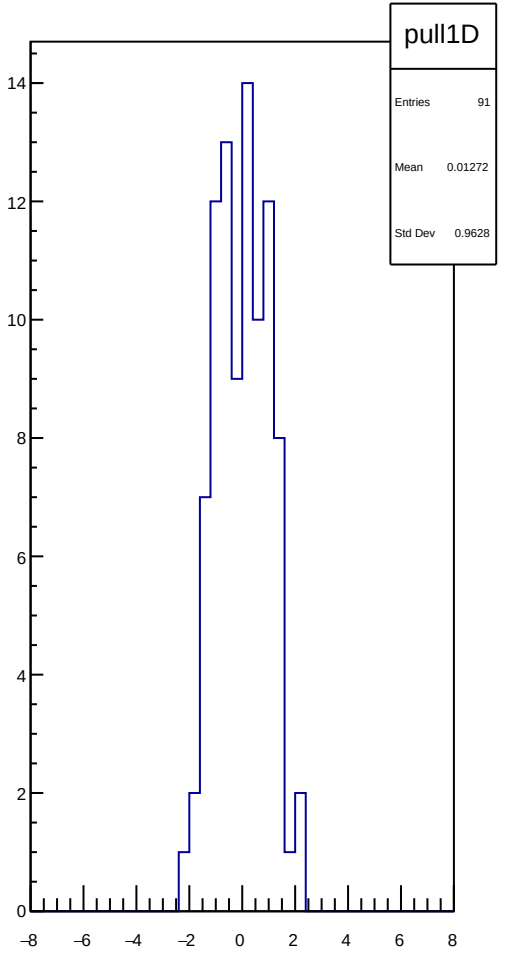

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 508.1 / 90
p0 1099 ± 0.8185
1140
1120
1100
1080
1060

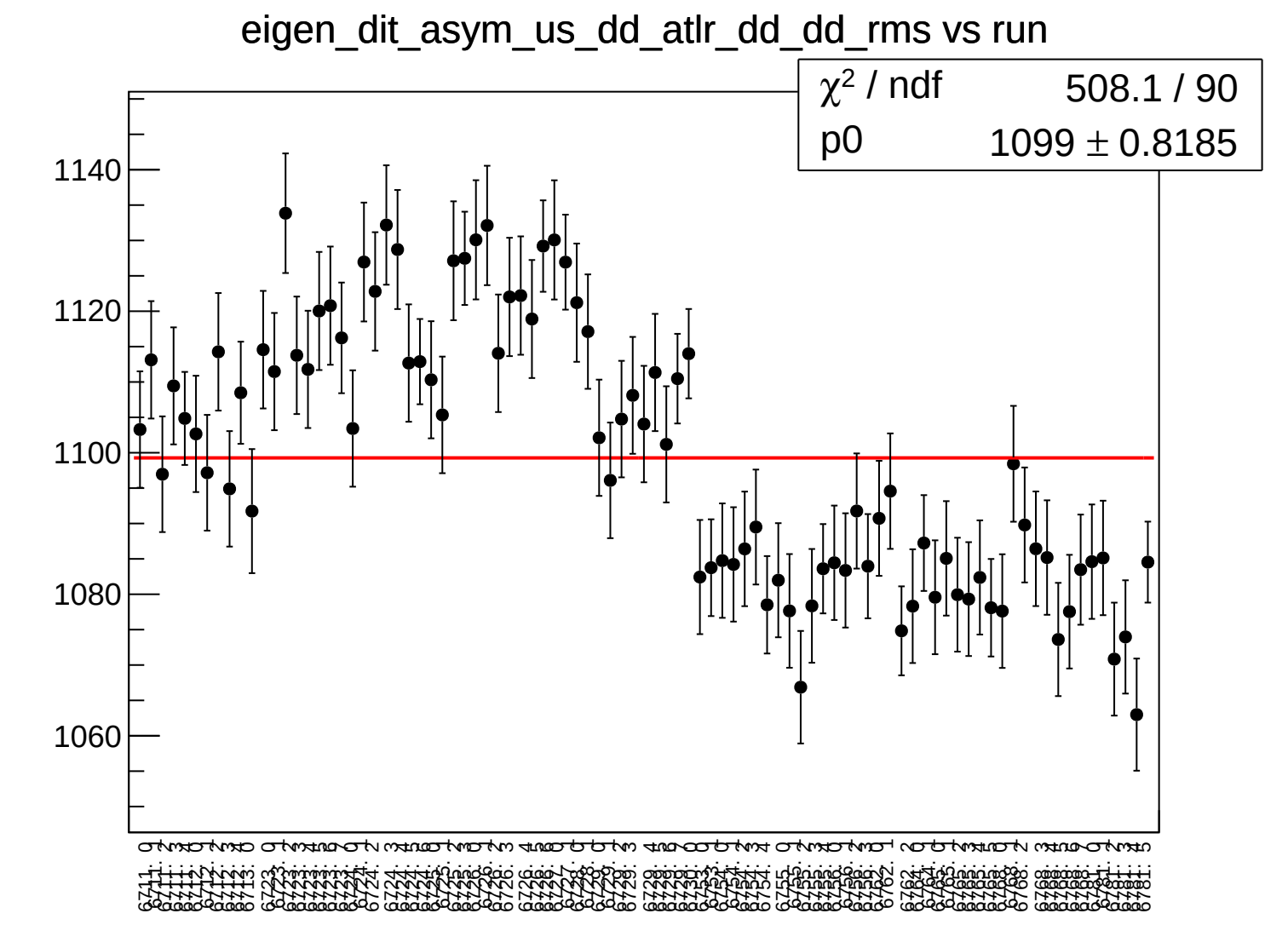

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 95.78 / 90
p0 341.8 ± 530.3
pull
Entries 91
Mean −16.82
Std Dev 24.36

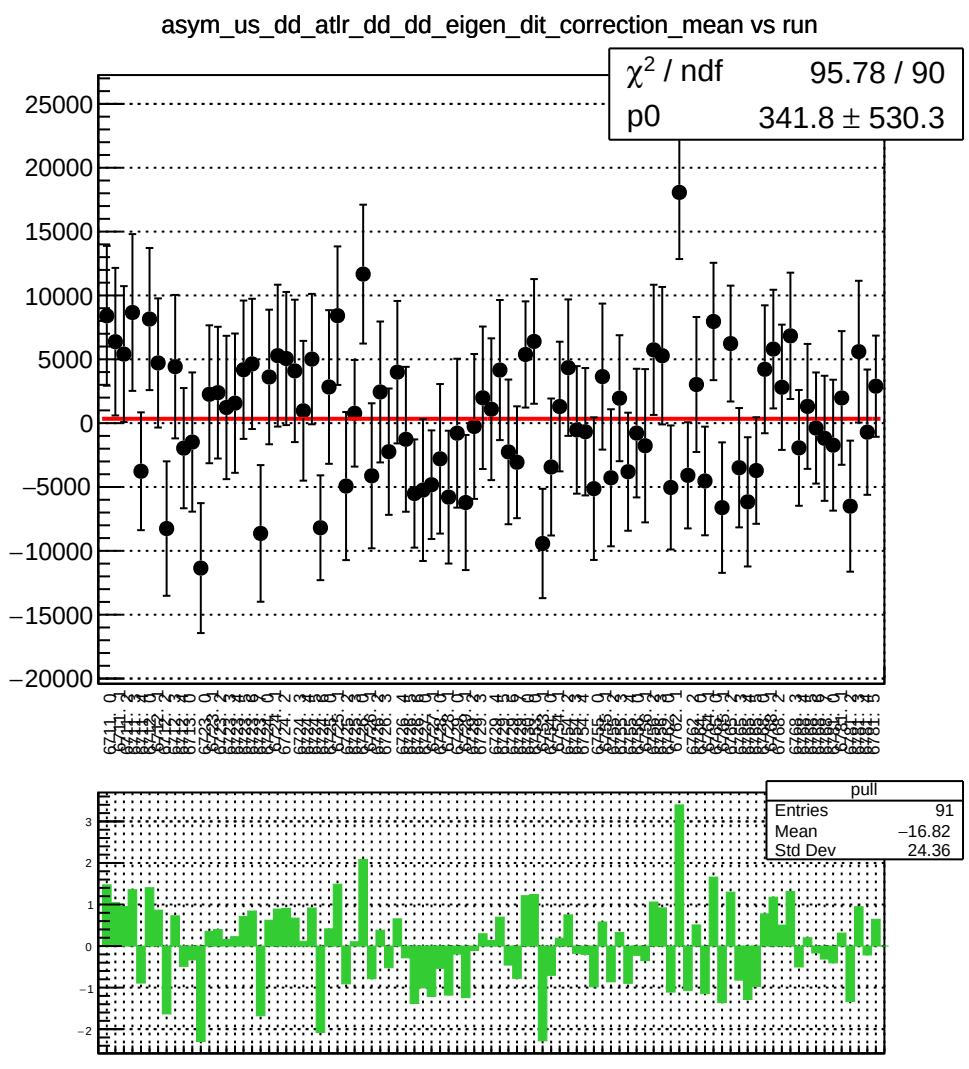

pull1D
Entries 91
Mean 0.02773
Std Dev 1.026

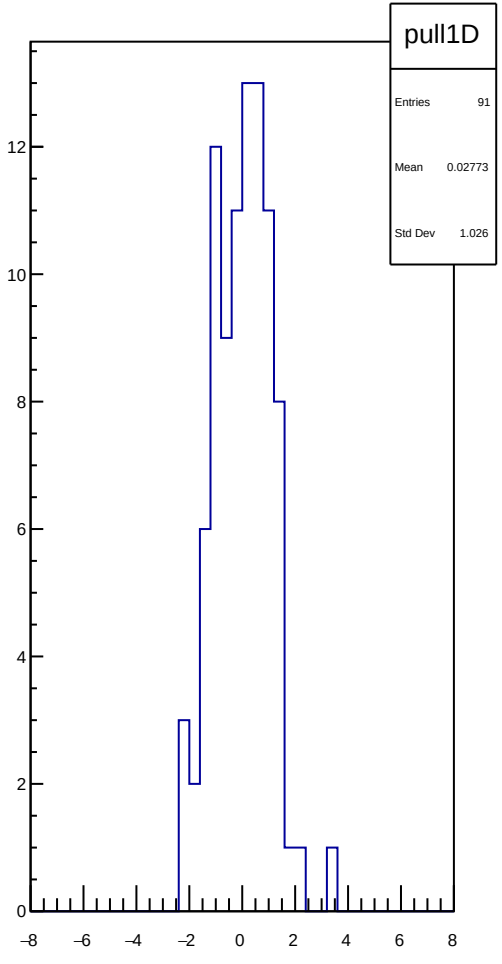

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 8728 / 90
p0 502.4 ± 0.3749
600
550
500
450
400

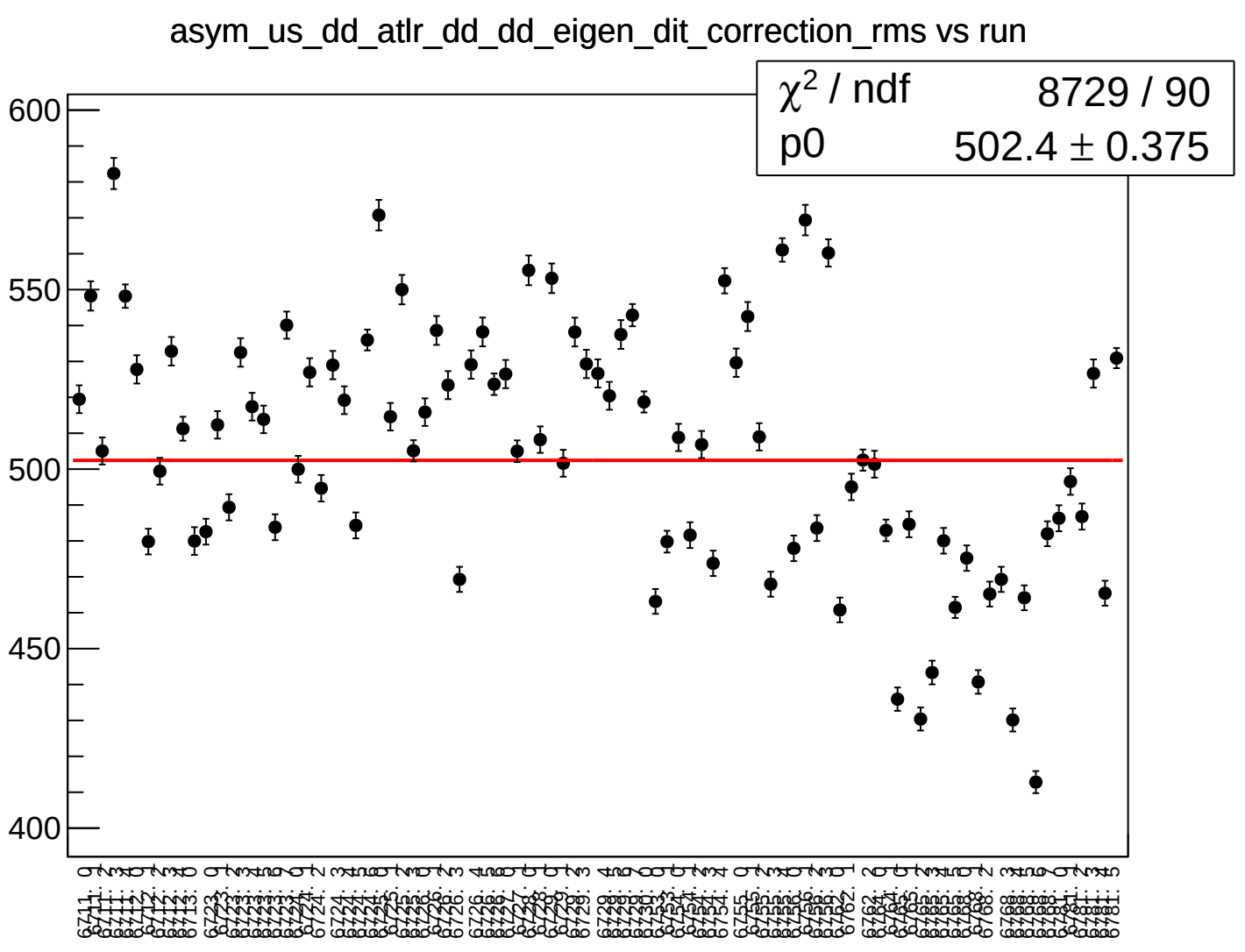

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 84.38 / 90
p0 −1444 ± 1158
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 358.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

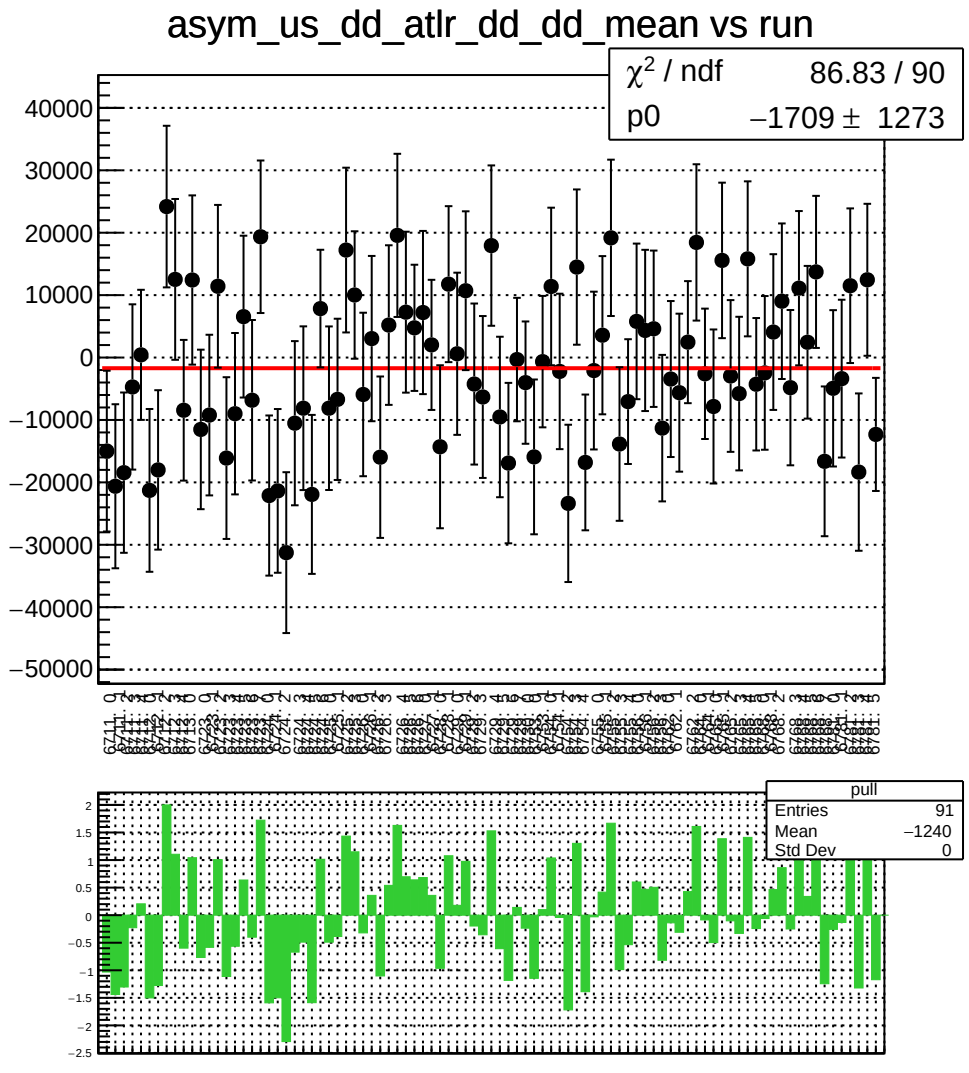

pull1D
Entries 91
Mean 0.01272
Std Dev 0.9628
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

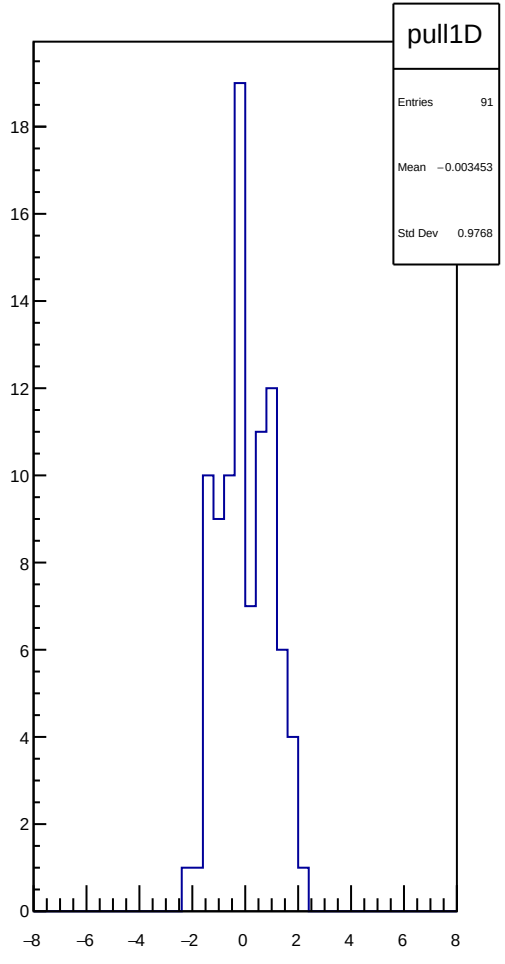

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 508.1 / 90
p0 1099 ± 0.8185
1140
1120
1100
1080
1060

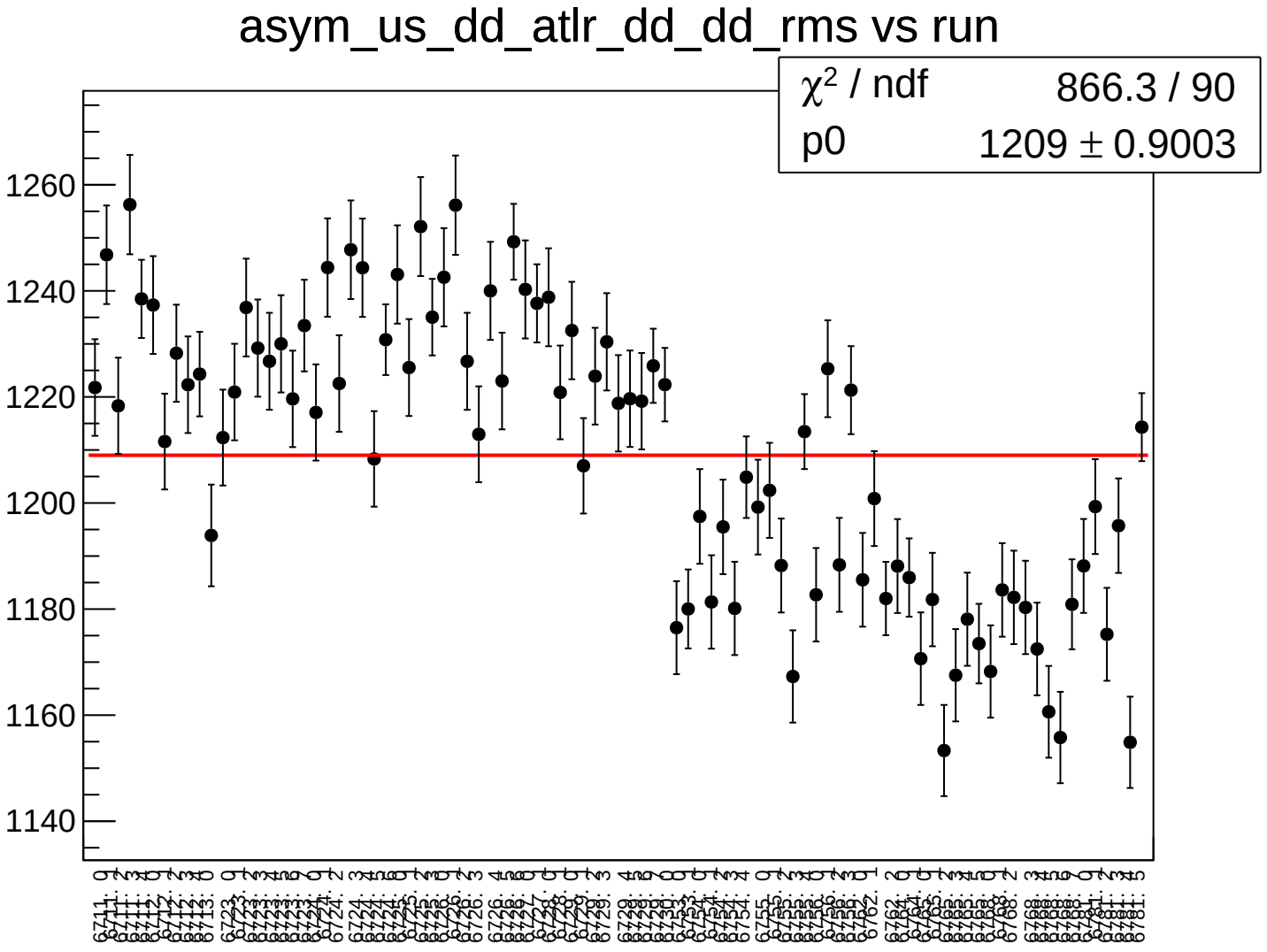

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 95.78 / 90
p0 341.8 ± 530.3
pull
Entries 91
Mean −16.82
Std Dev 24.36

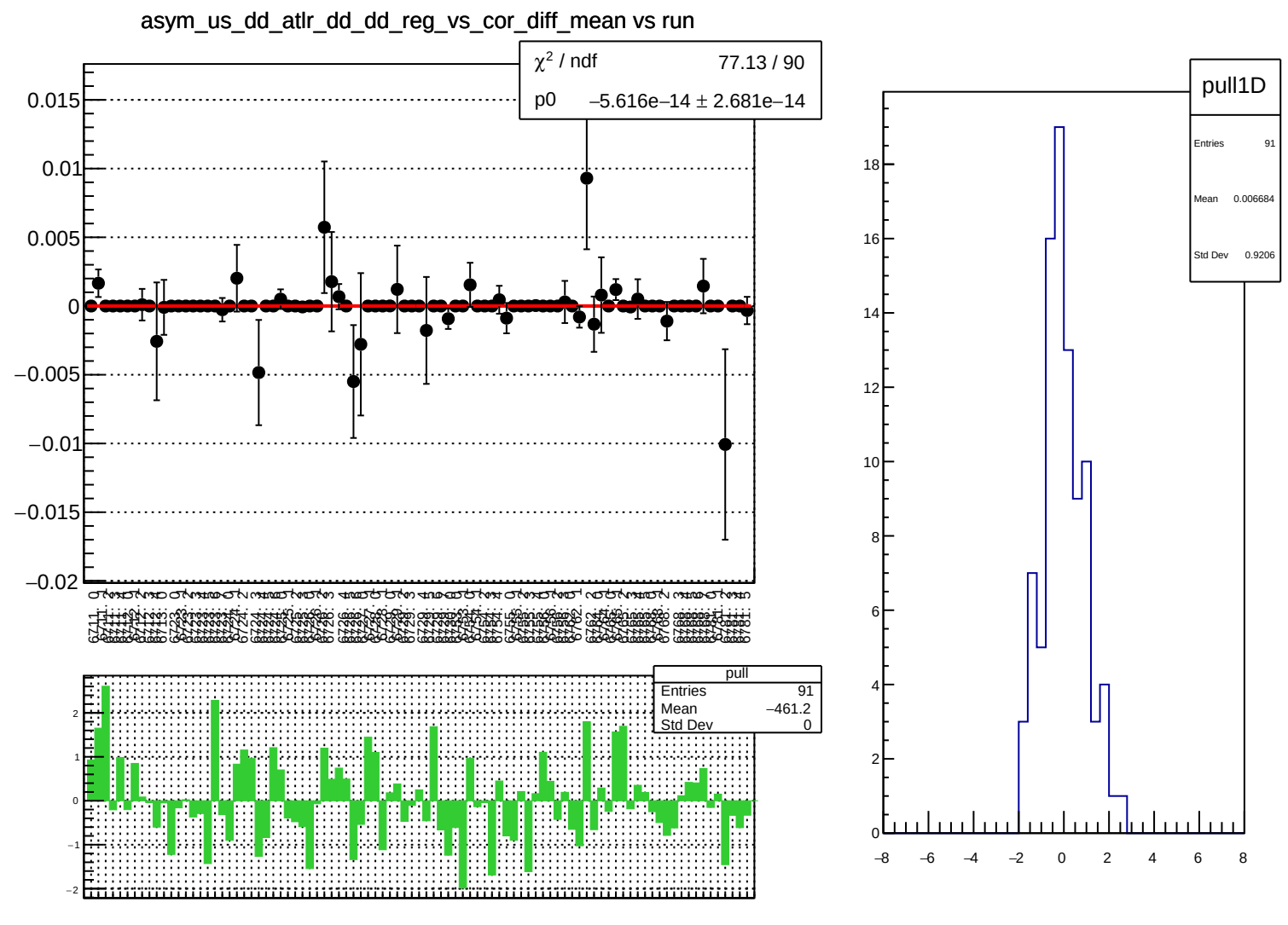

pull1D
Entries 91
Mean 0.02773
Std Dev 1.026

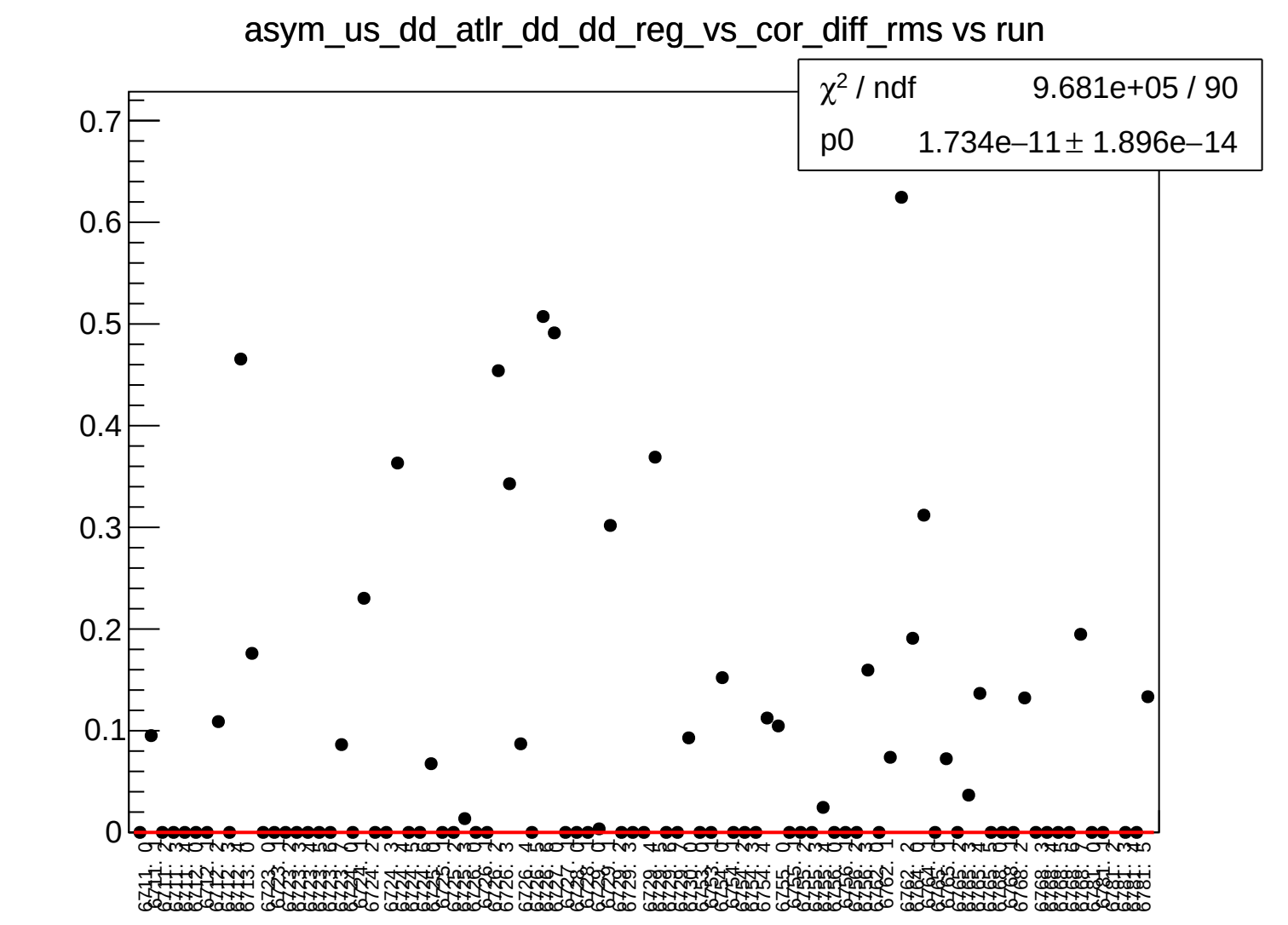

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 8729 / 90
p0 502.4 ± 0.375
600
550
500
450
400

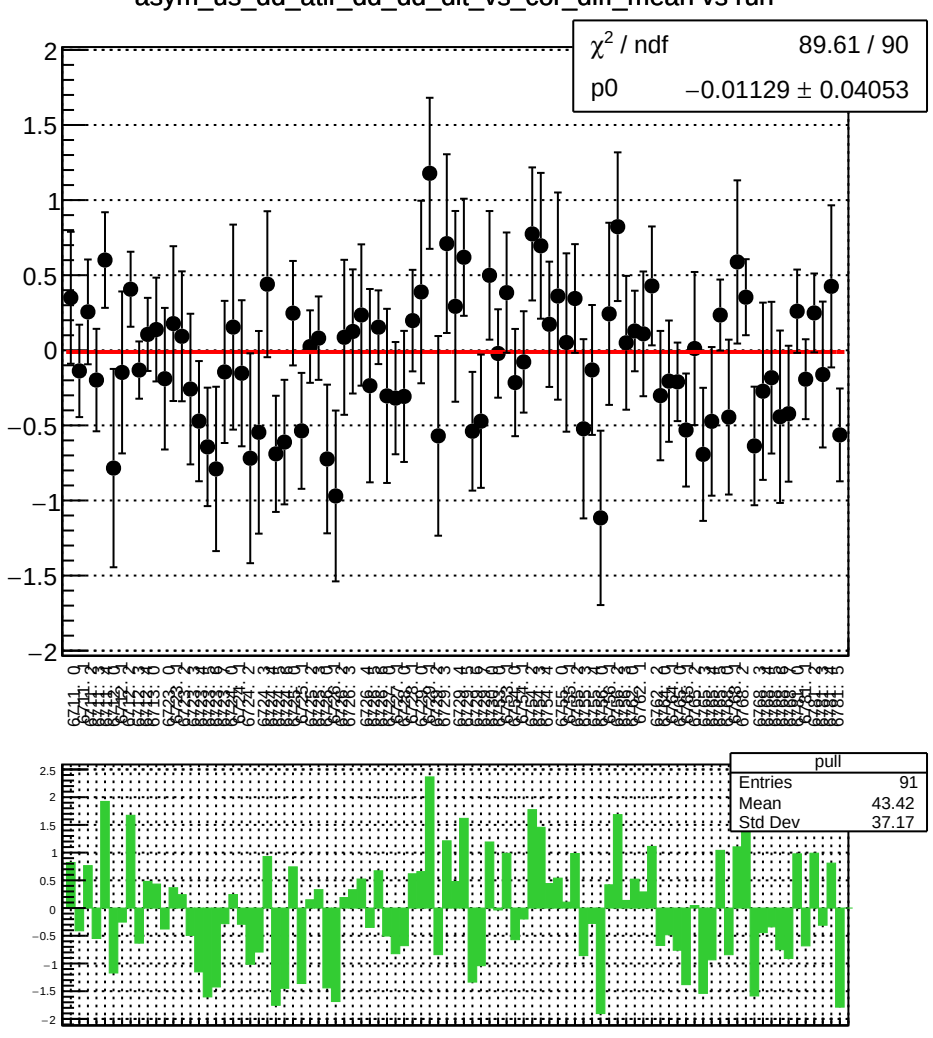

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 86.83 / 90
p0 −1709 ± 1273
pull
Entries 91
Mean −1240
Std Dev 0

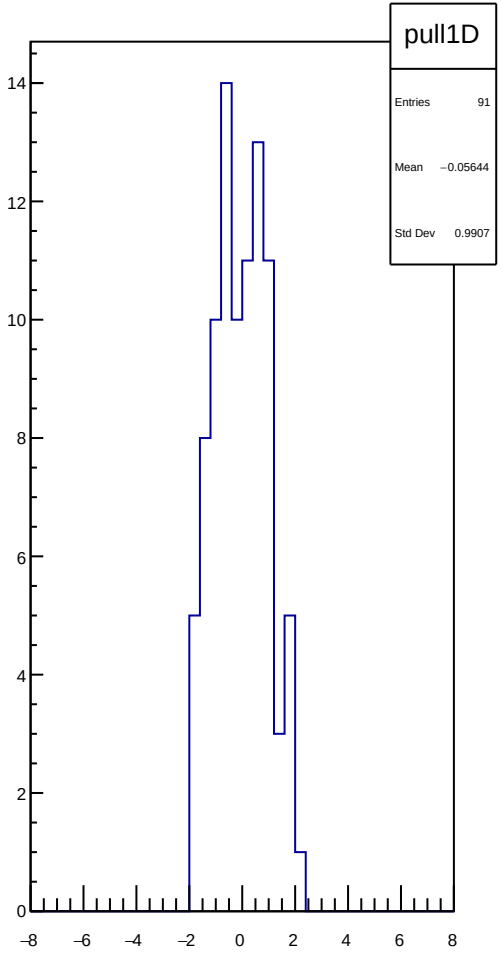

pull1D
Entries 91
Mean −0.003453
Std Dev 0.9768

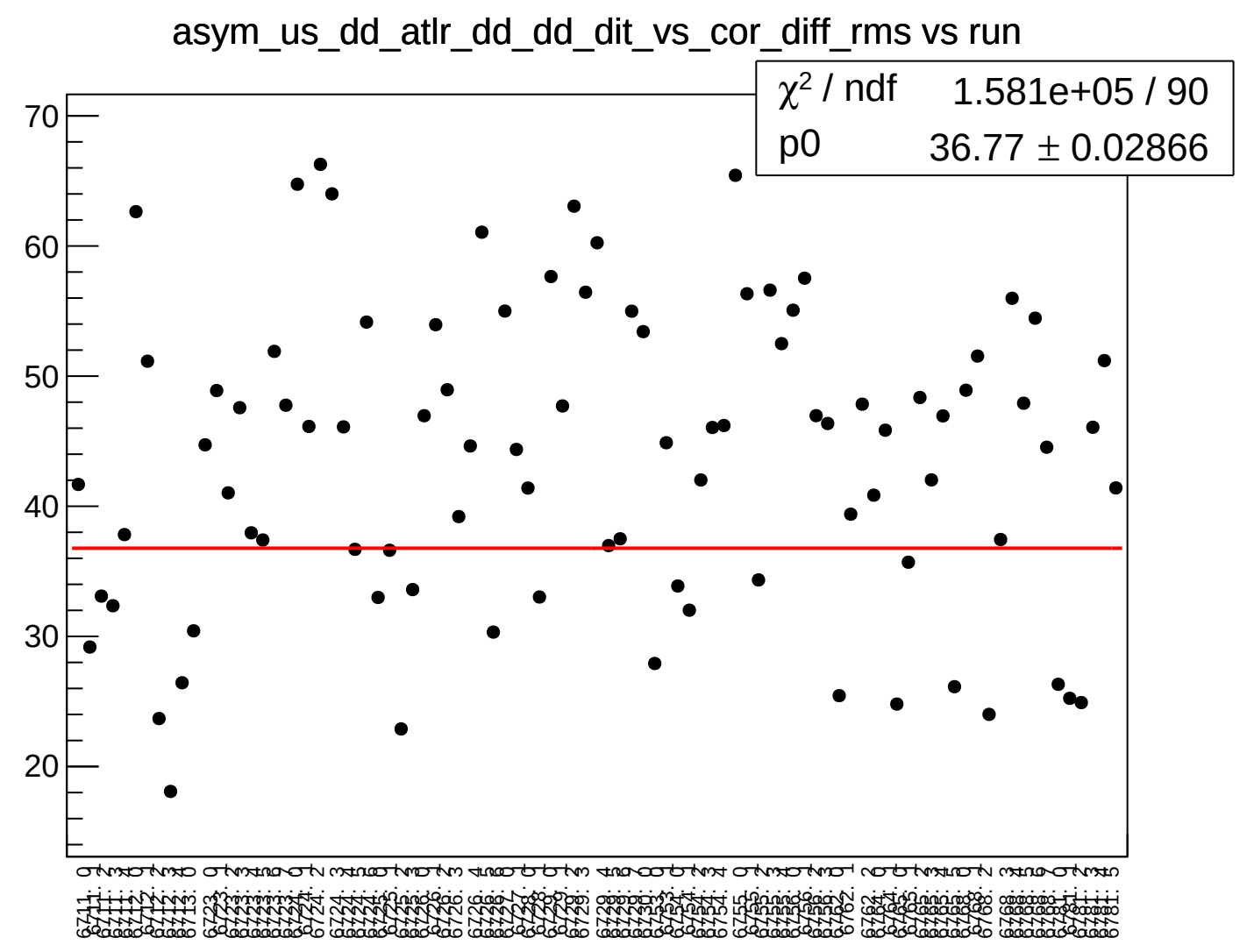

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 866.3 / 90
p0 1209 ± 0.9003
1260
1240
1220
1200
1180
1160
1140

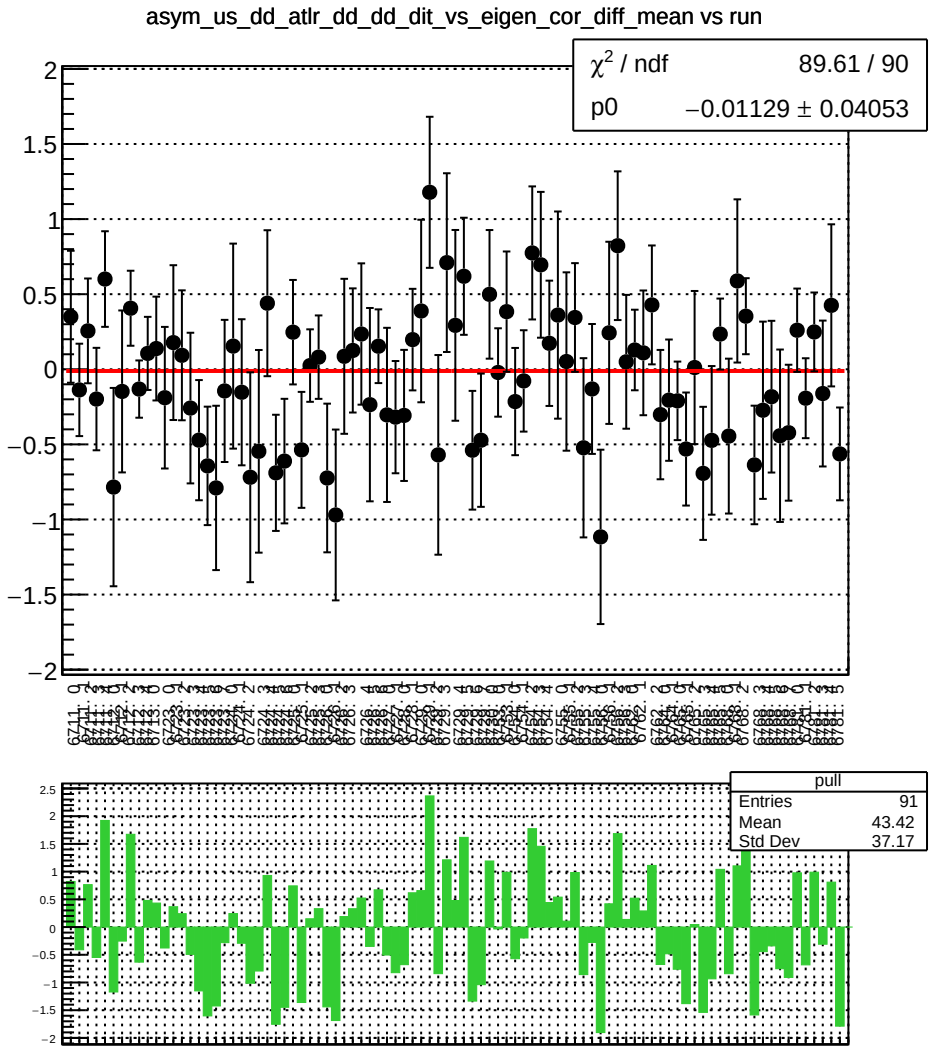

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.13 / 90
p0 −5.616e−14 ± 2.681e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 91
Mean −461.2
Std Dev 0
pull1D
Entries 91
Mean 0.006684
Std Dev 0.9206

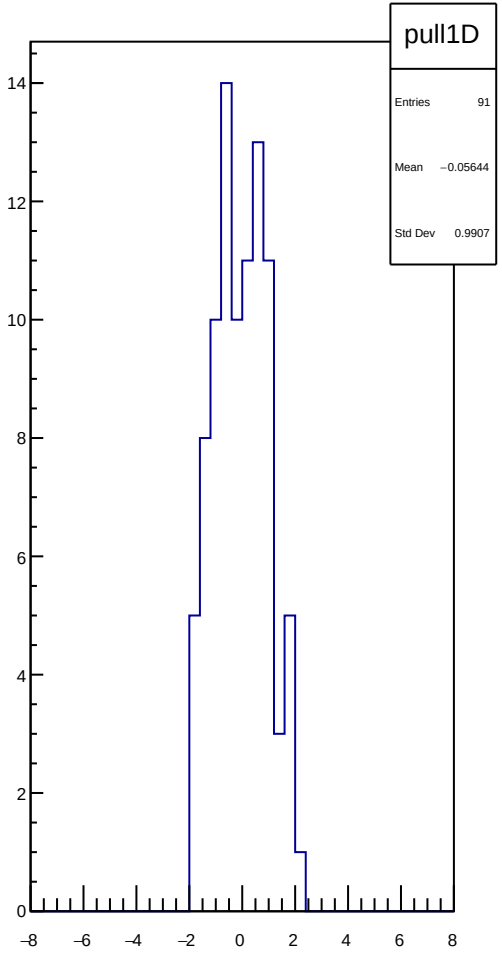

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.681e+05 / 90
p0 1.734e−11 ± 1.896e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

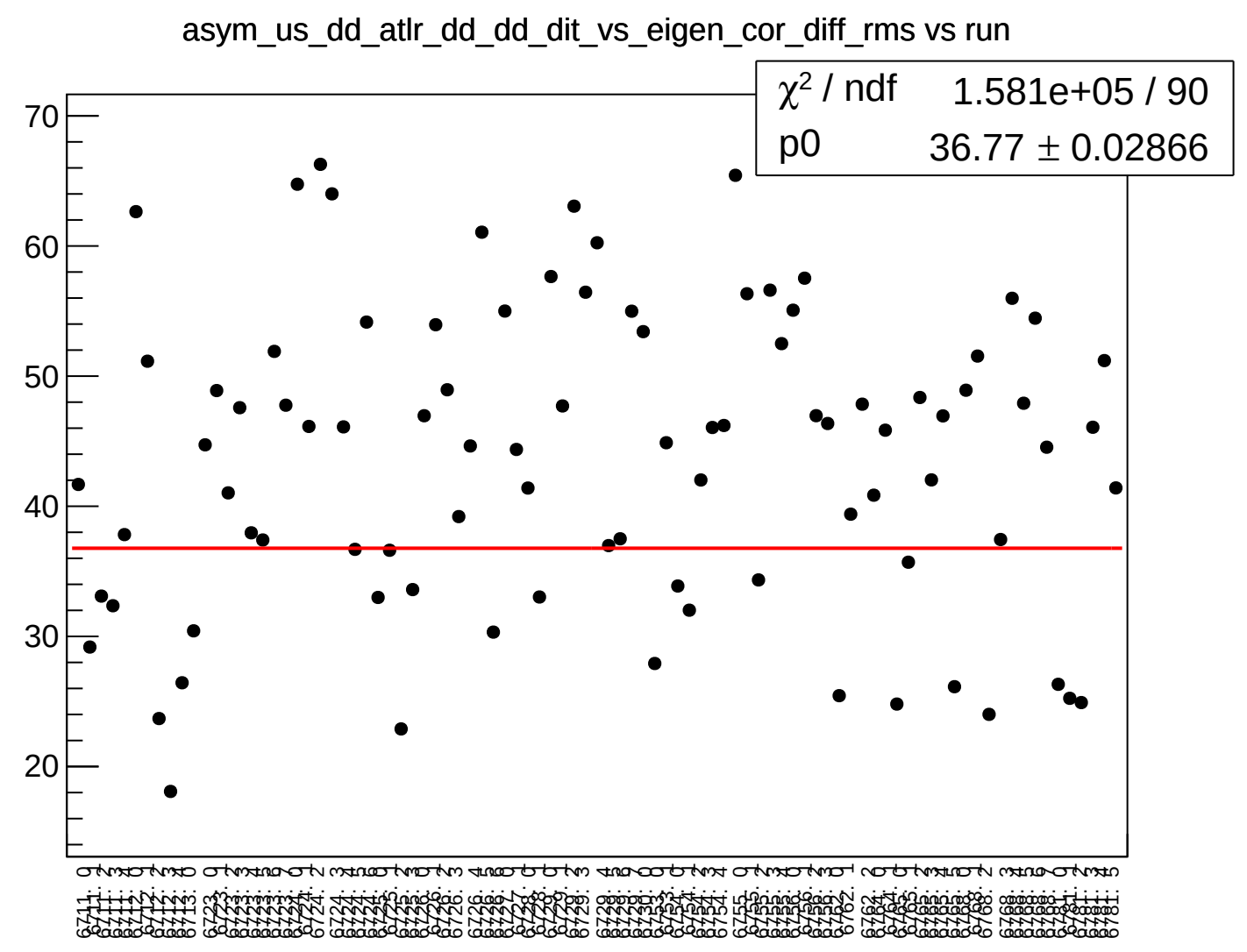

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.61 / 90
p0 −0.01129 ± 0.04053
pull
Entries 91
Mean 43.42
Std Dev 37.17

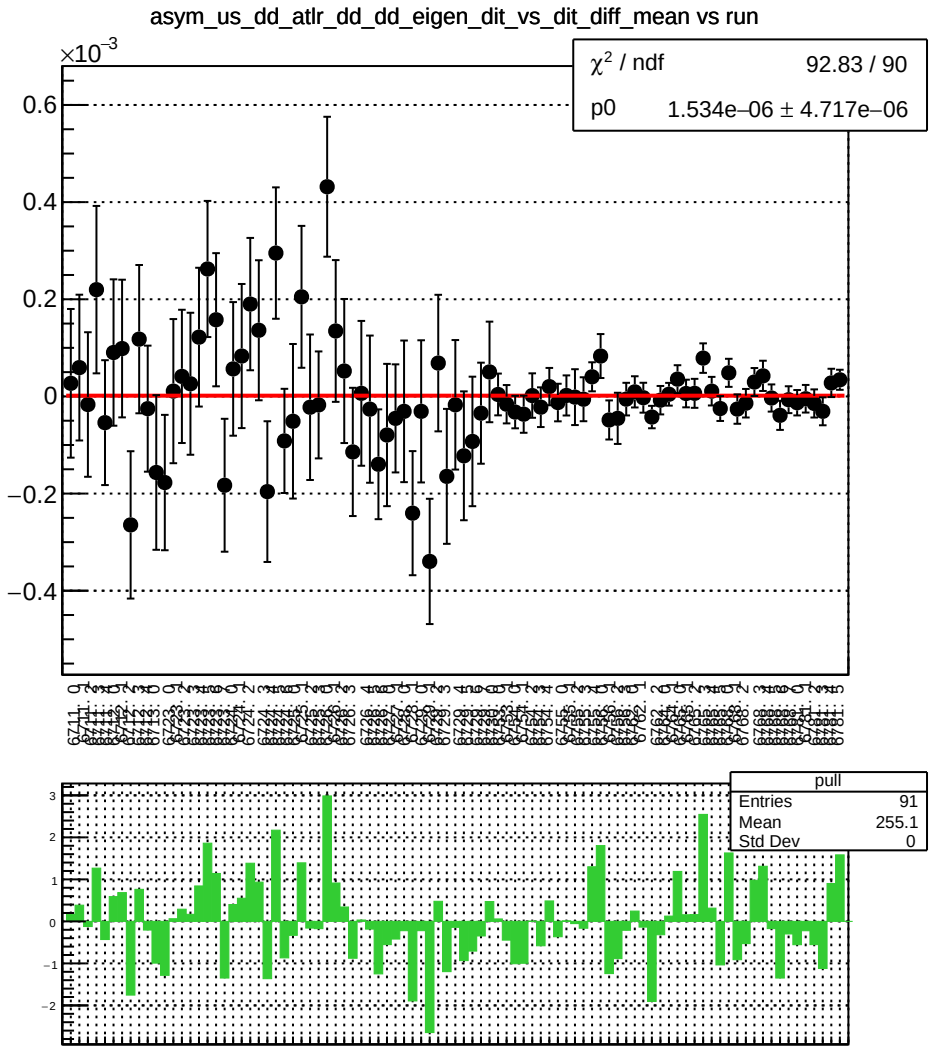

pull1D
Entries 91
Mean −0.05644
Std Dev 0.9907

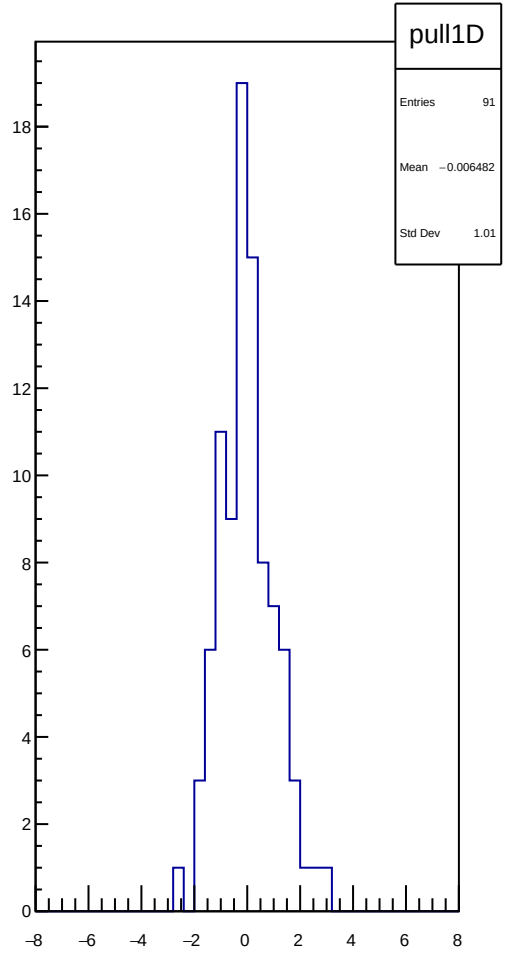

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.581e+05 / 90
p0 36.77 ± 0.02866
70
60
50
40
30
20

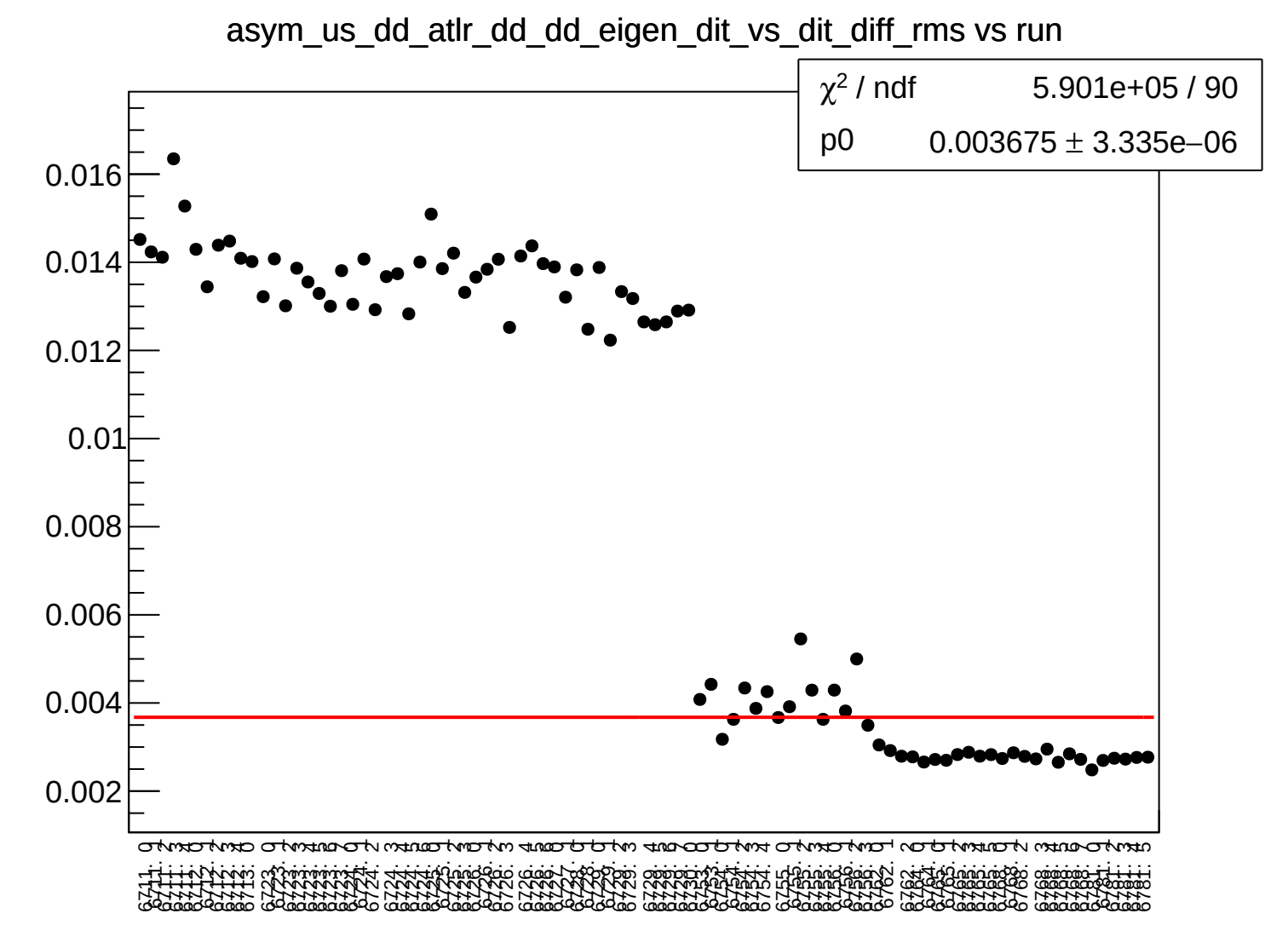

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.61 / 90
p0 −0.01129 ± 0.04053
pull
Entries 91
Mean 43.42
Std Dev 37.17

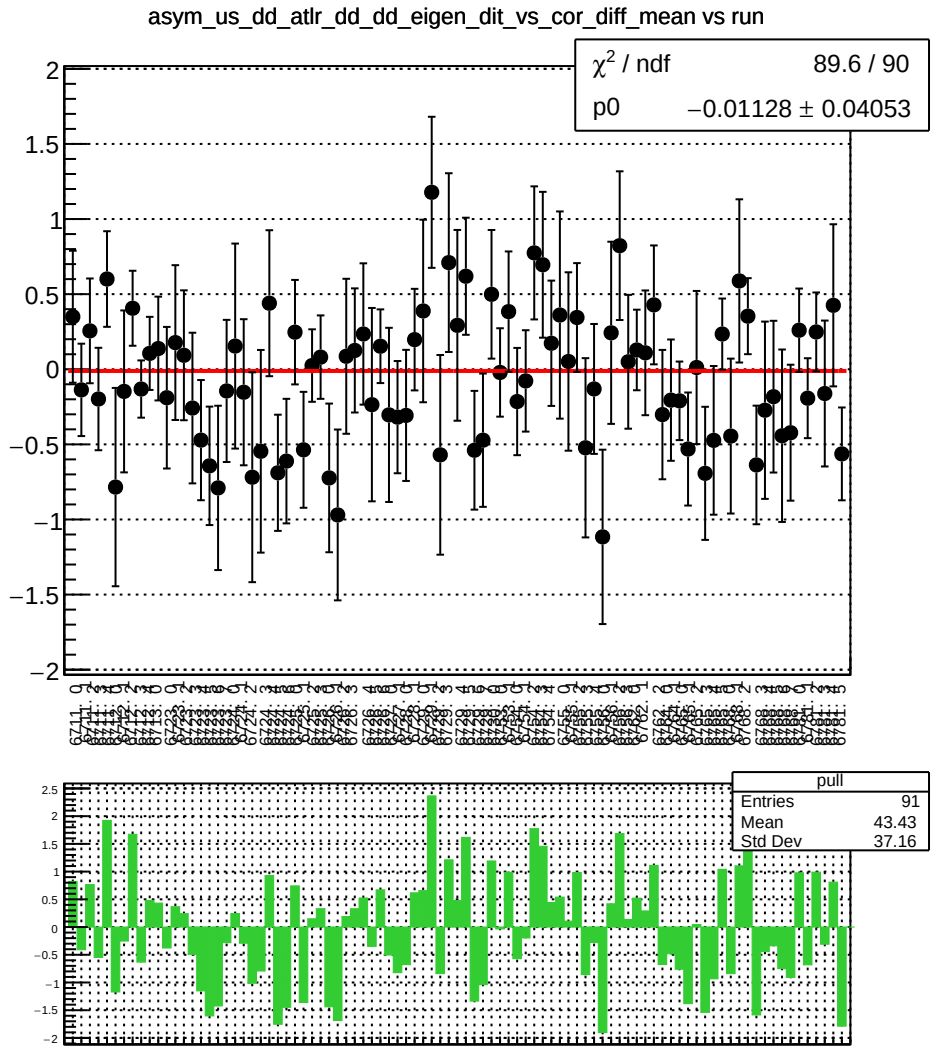

pull1D
Entries 91
Mean −0.05644
Std Dev 0.9907

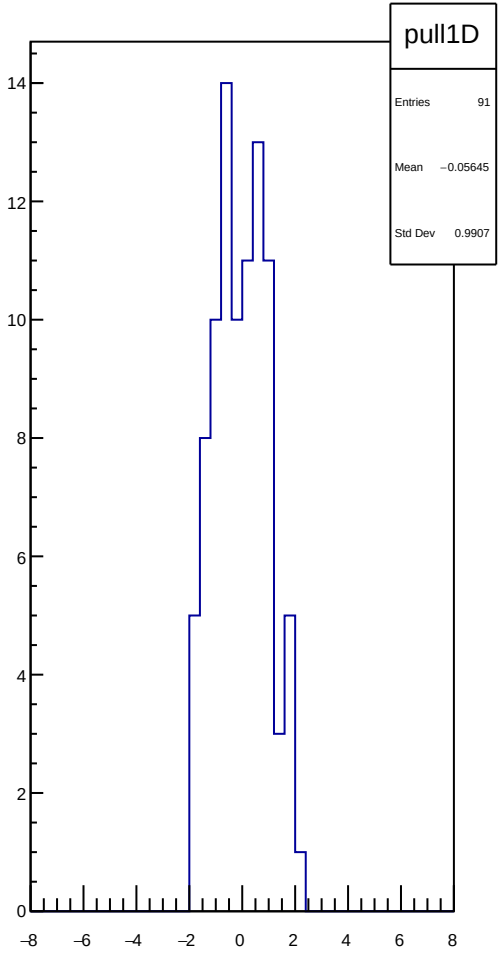

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.581e+05 / 90
p0 36.77 ± 0.02866
70
60
50
40
30
20

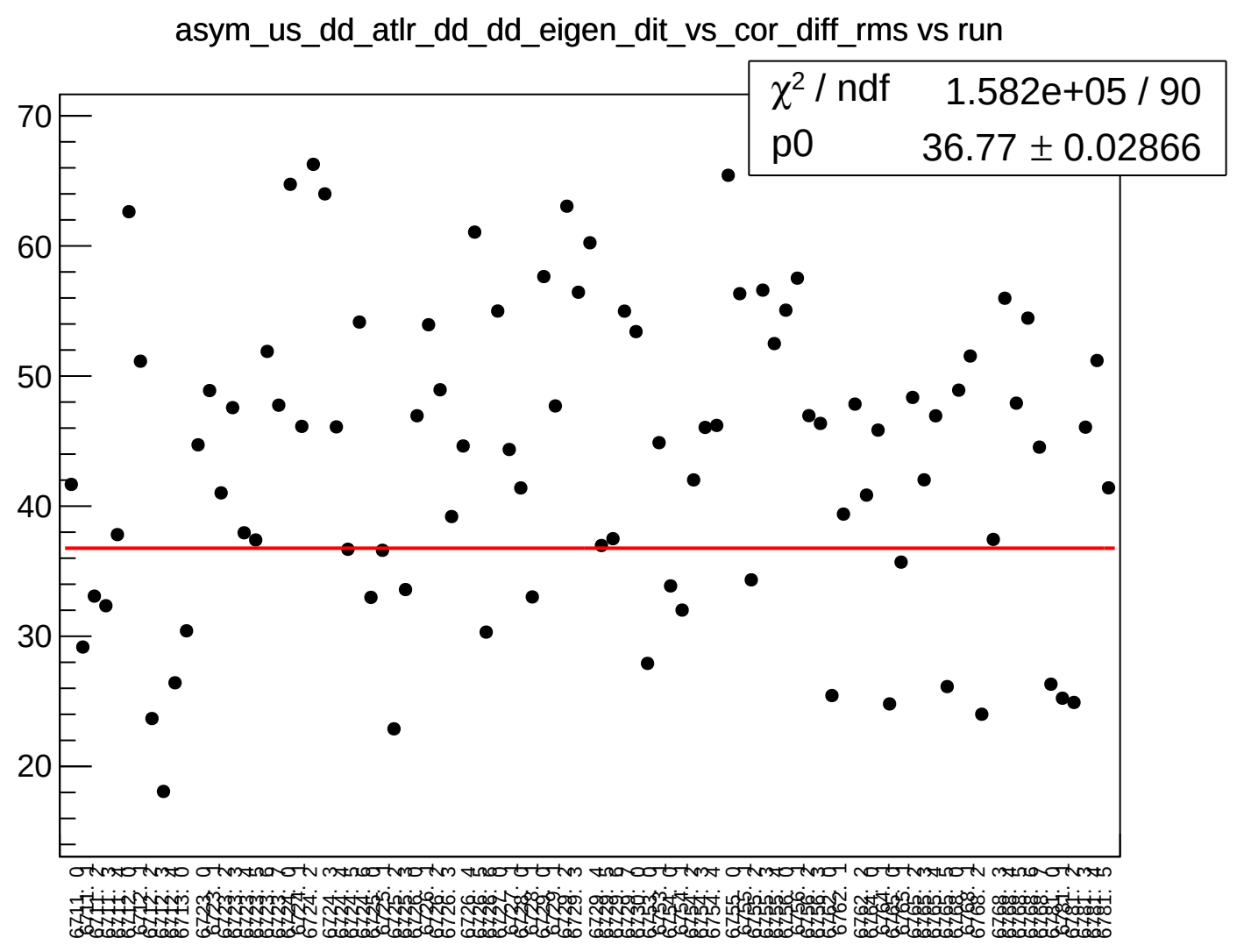

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.83 / 90
p0 1.534e−06 ± 4.717e−06
pull
Entries 91
Mean 255.1
Std Dev 0

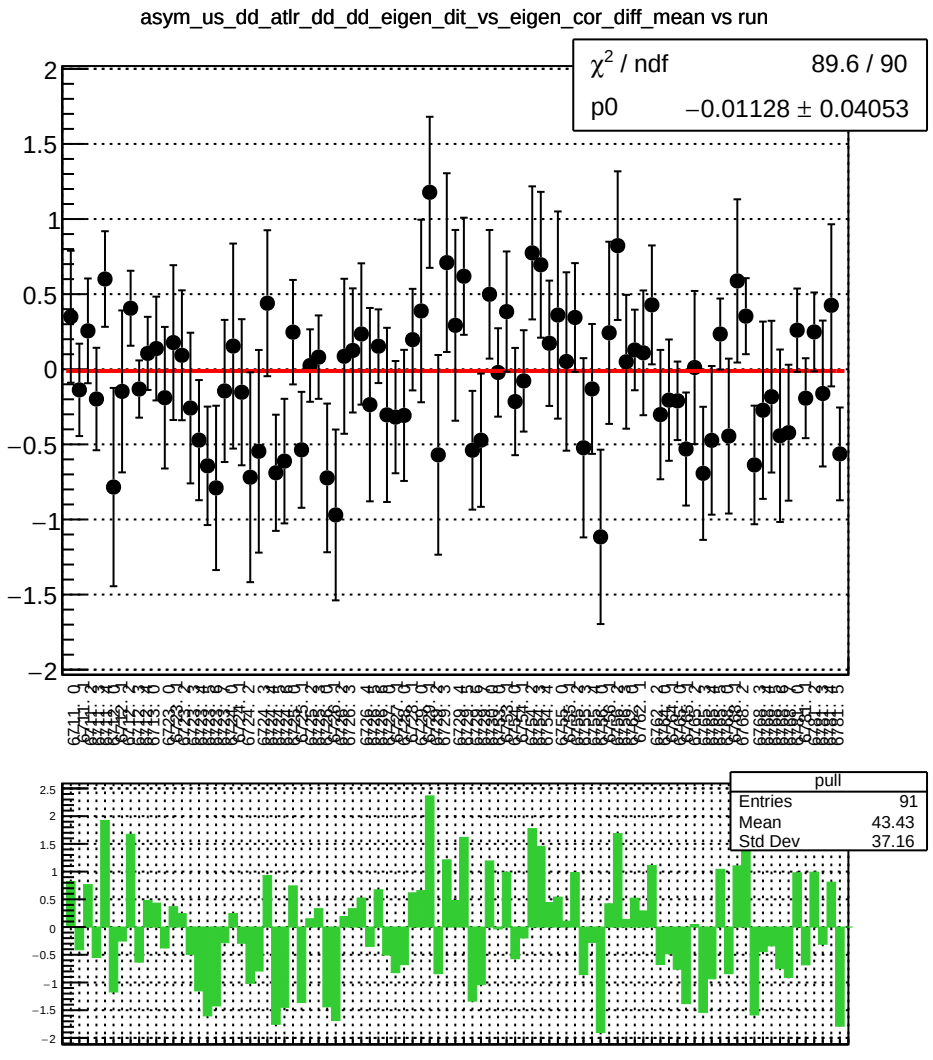

pull1D
Entries 91
Mean −0.006482
Std Dev 1.01

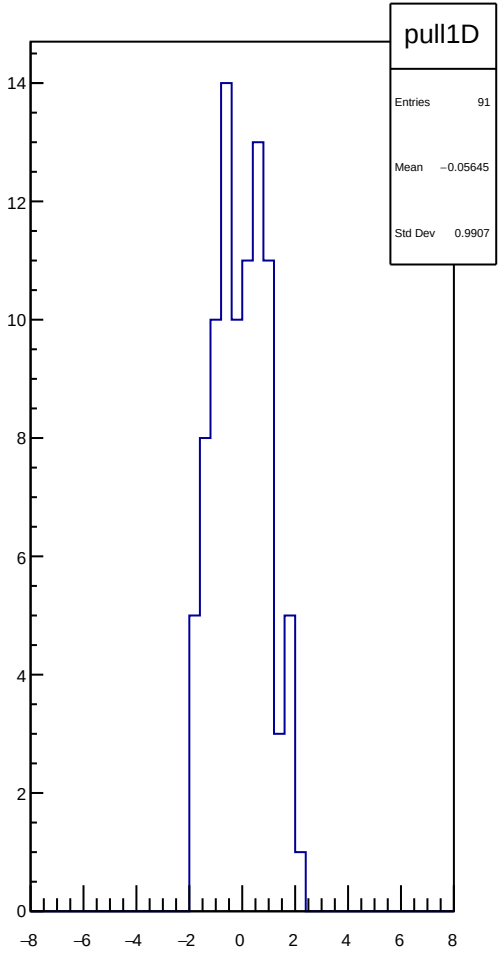

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ^2 / ndf 5.901e+05 / 90
p0 0.003675 ± 3.335e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

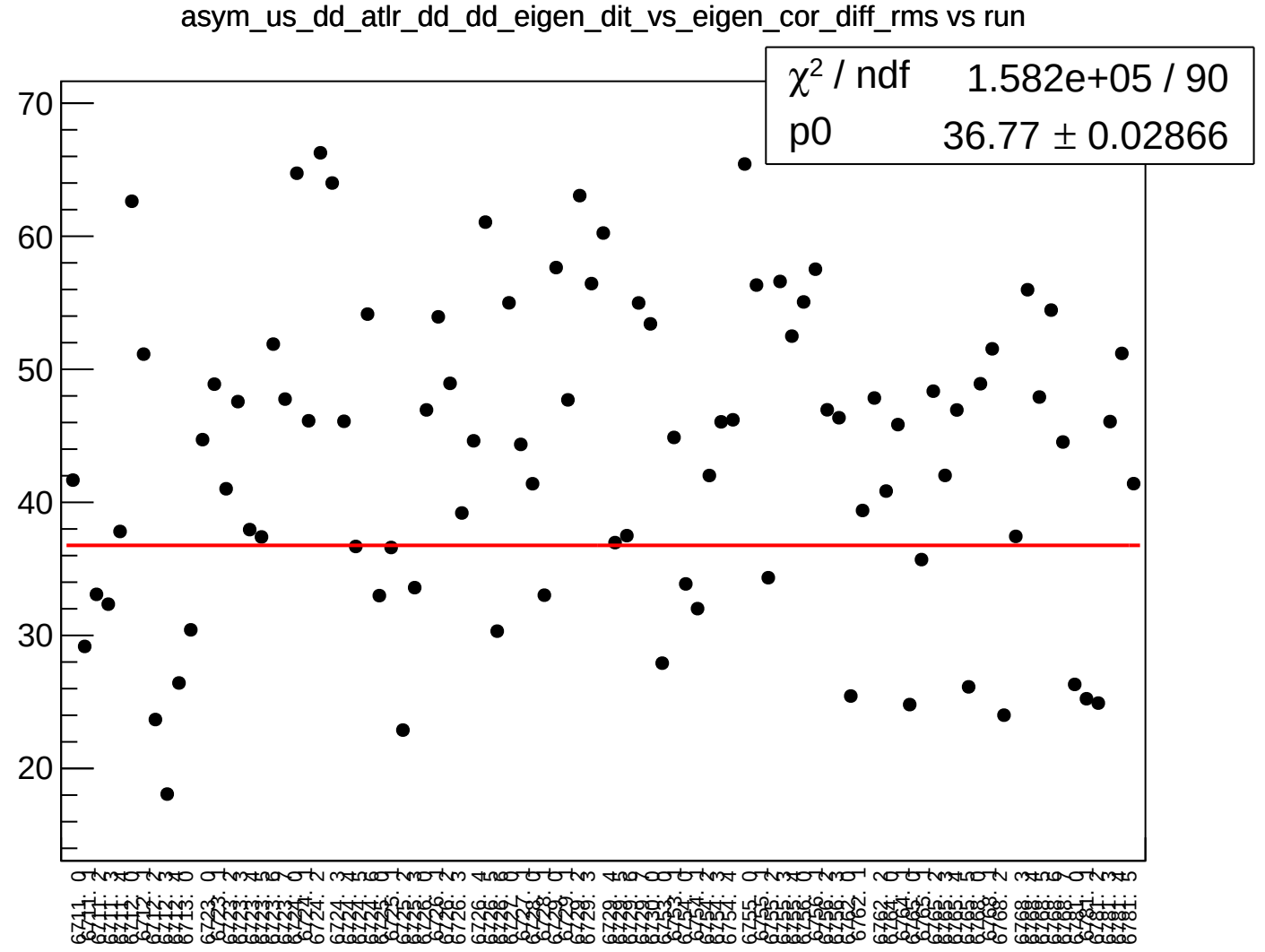

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.6 / 90
p0 −0.01128 ± 0.04053
pull
Entries 91
Mean 43.43
Std Dev 37.16

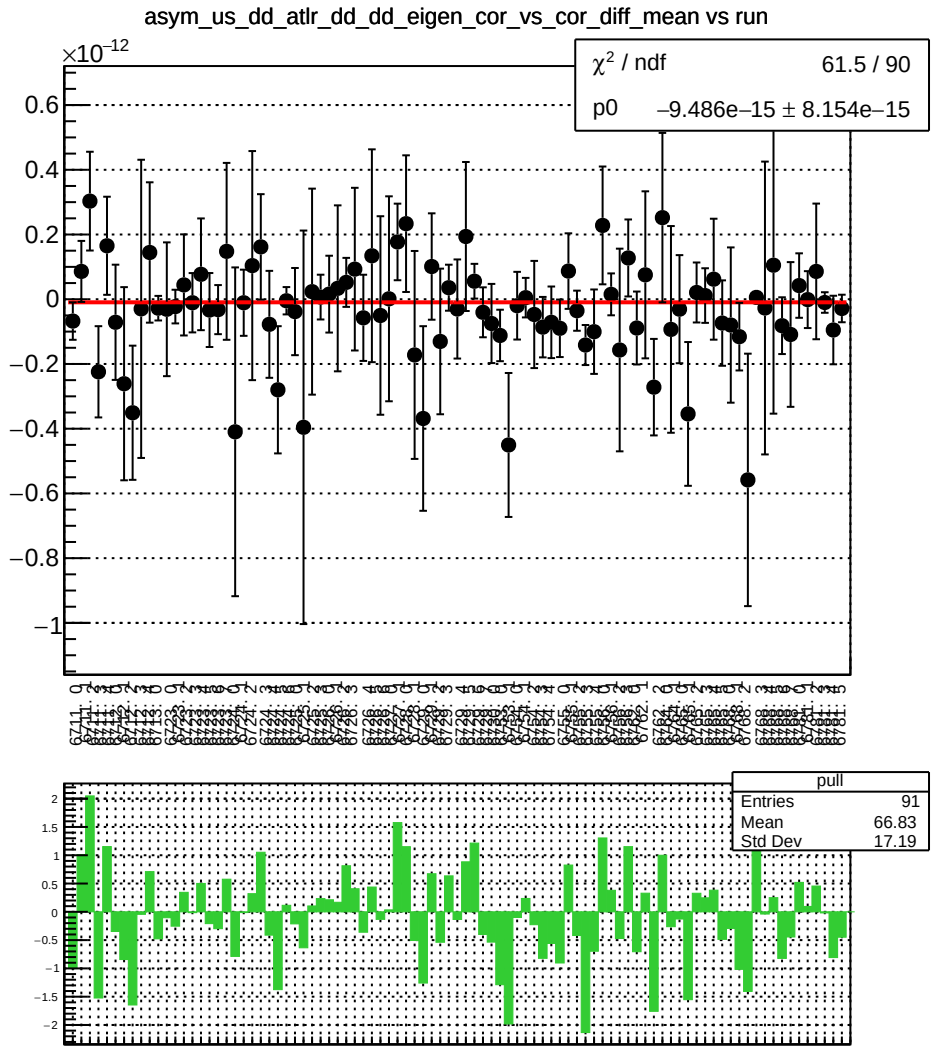

pull1D
Entries 91
Mean −0.05645
Std Dev 0.9907

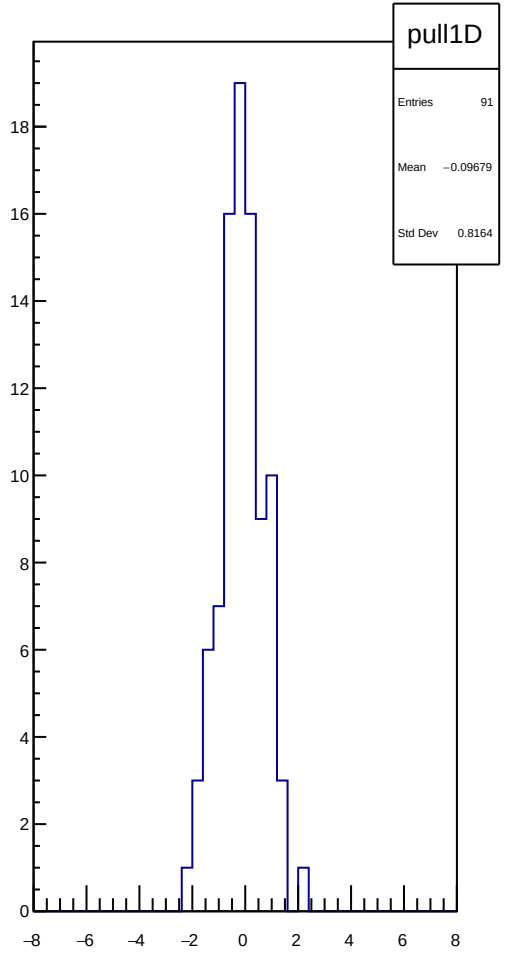

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.582e+05 / 90
p0 36.77 ± 0.02866
70
60
50
40
30
20

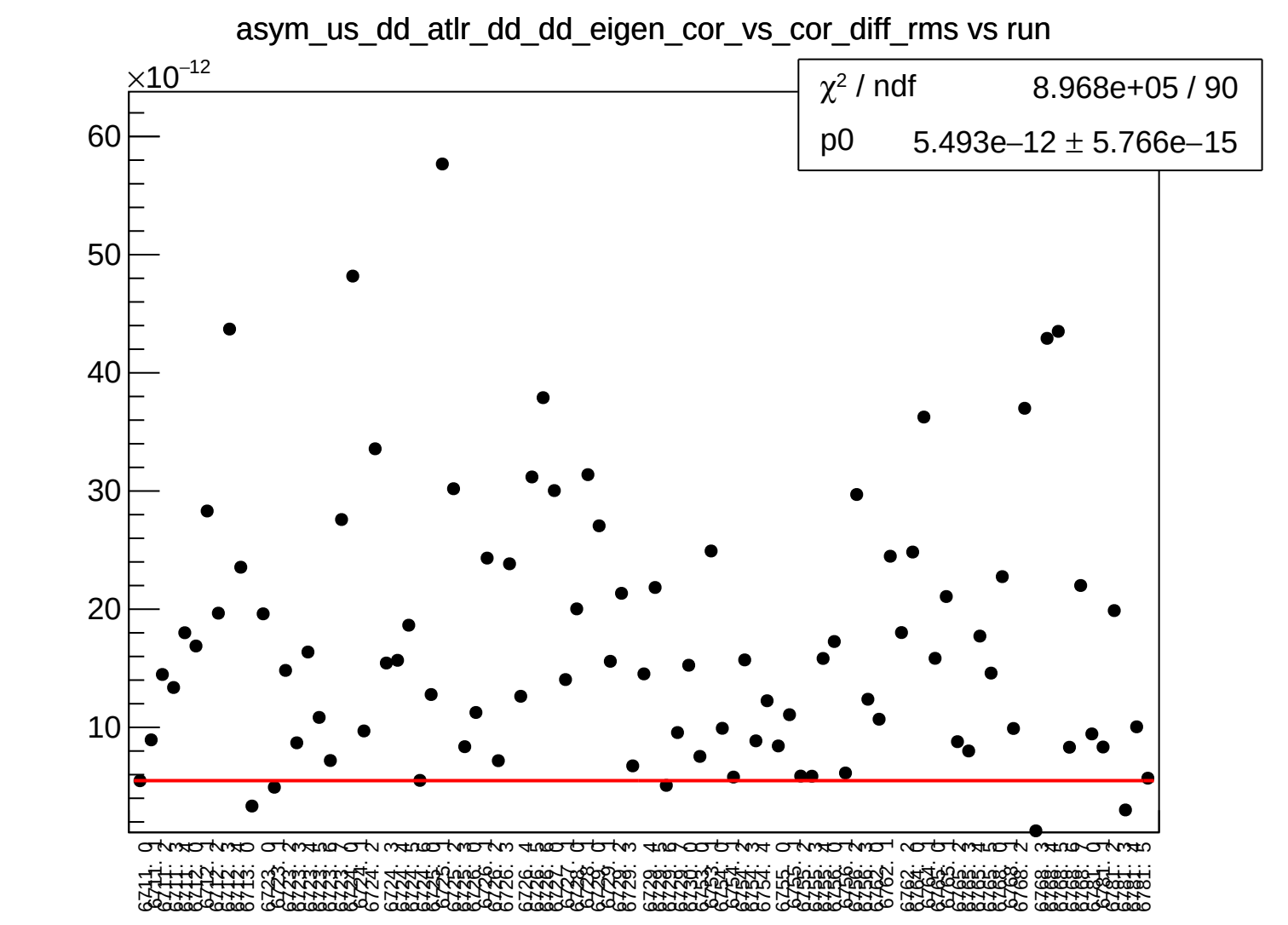

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.6 / 90
p0 −0.01128 ± 0.04053
pull
Entries 91
Mean 43.43
Std Dev 37.16

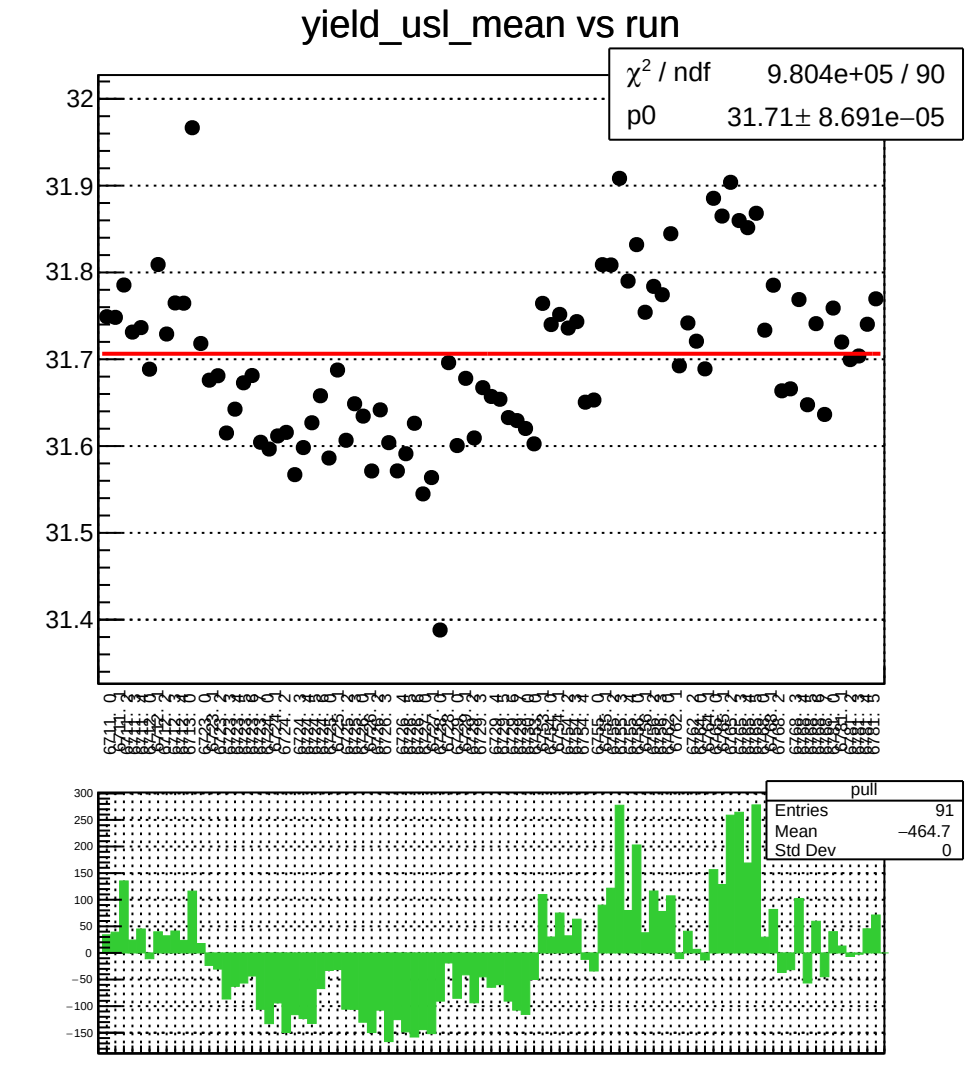

pull1D
Entries 91
Mean −0.05645
Std Dev 0.9907

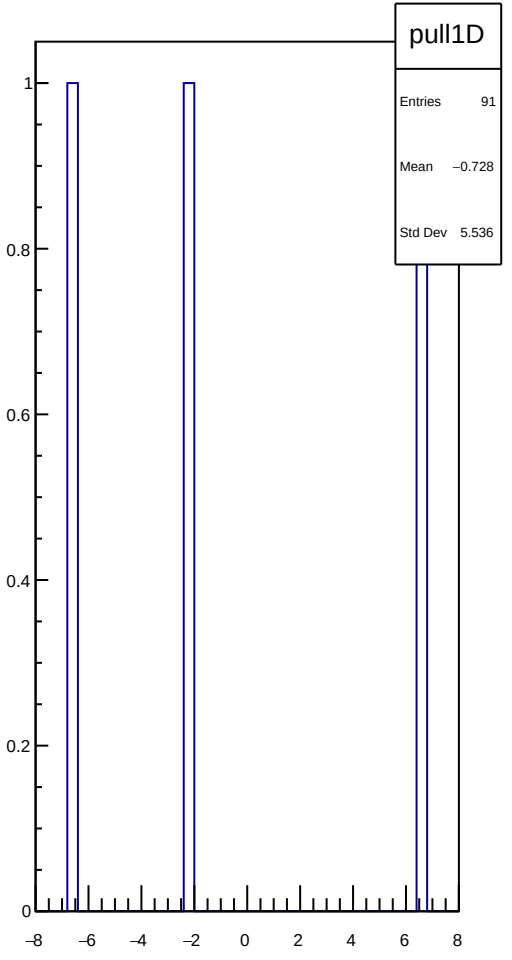

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.582e+05 / 90
p0 36.77 ± 0.02866
70
60
50
40
30
20

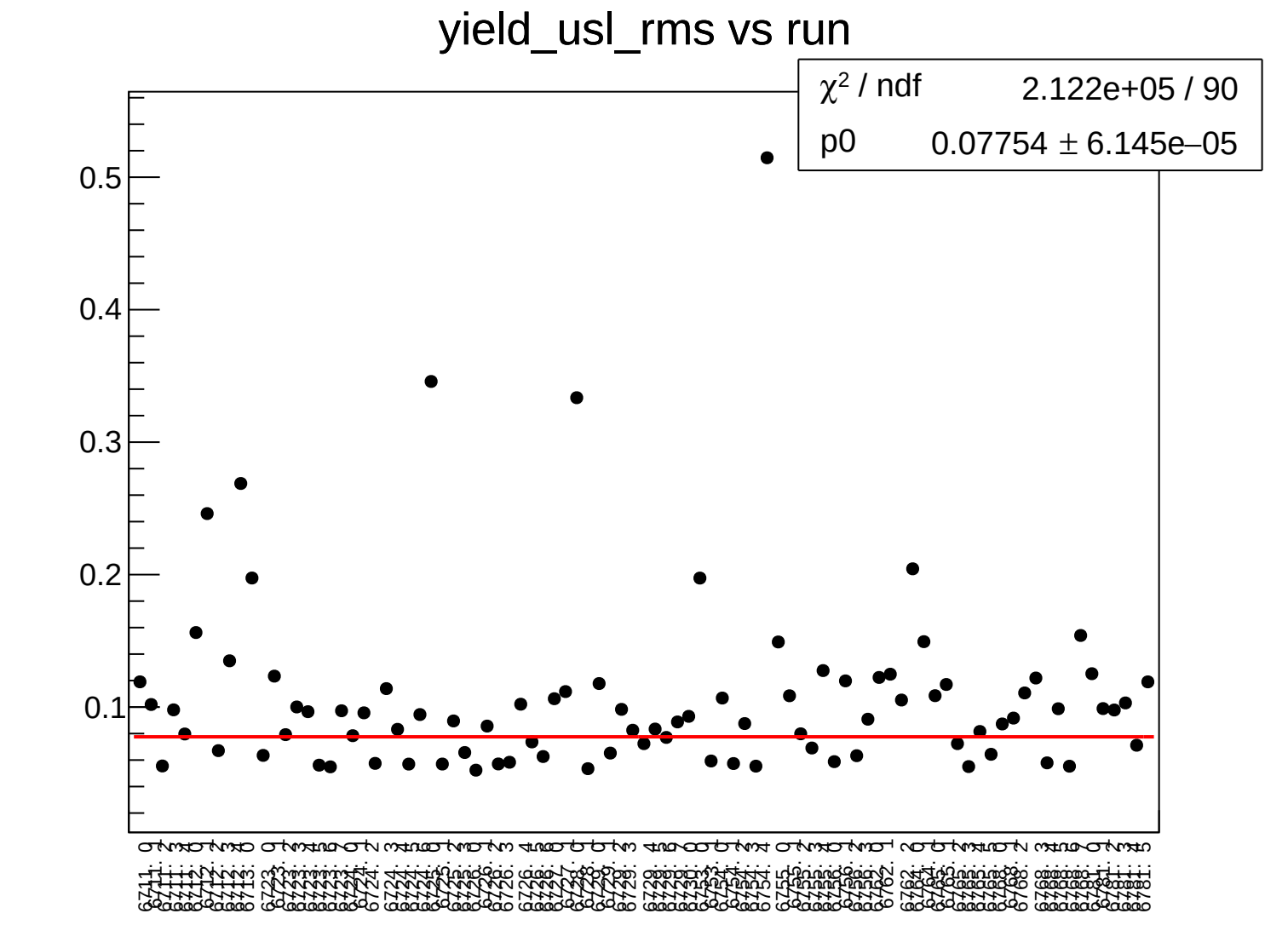

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 61.5 / 90
p0 −9.486e−15 ± 8.154e−15
pull
Entries 91
Mean 66.83
Std Dev 17.19

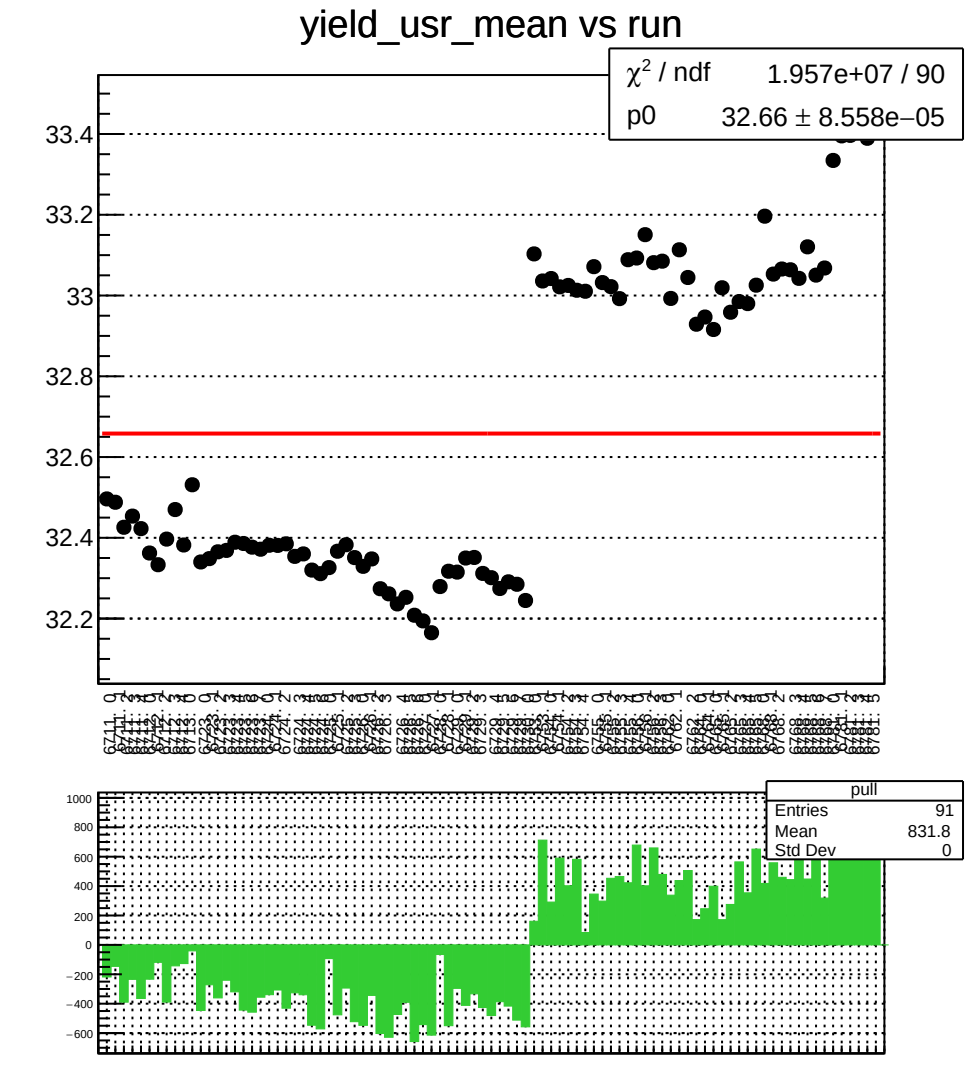

pull1D
Entries 91
Mean −0.09679
Std Dev 0.8164

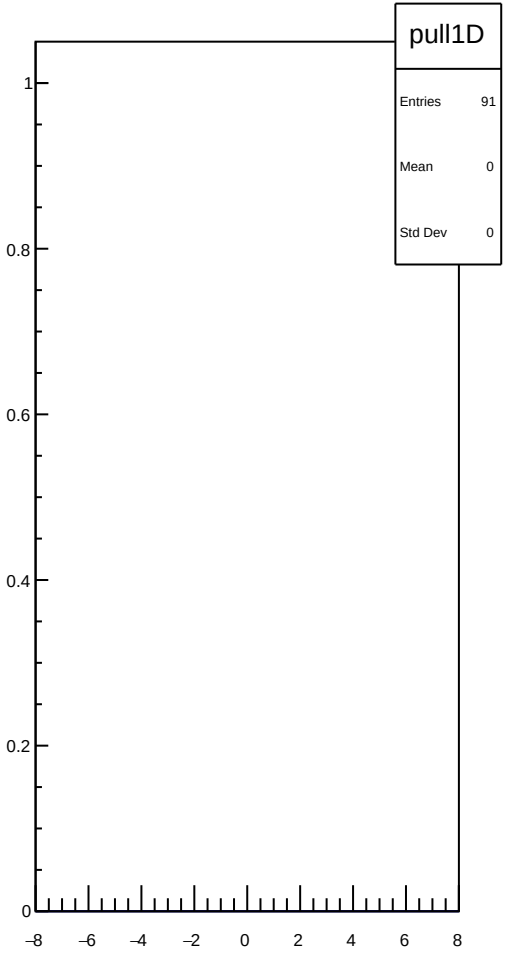

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.968e+05 / 90
p0 5.493e−12 ± 5.766e−15
60
50
40
30
20
10

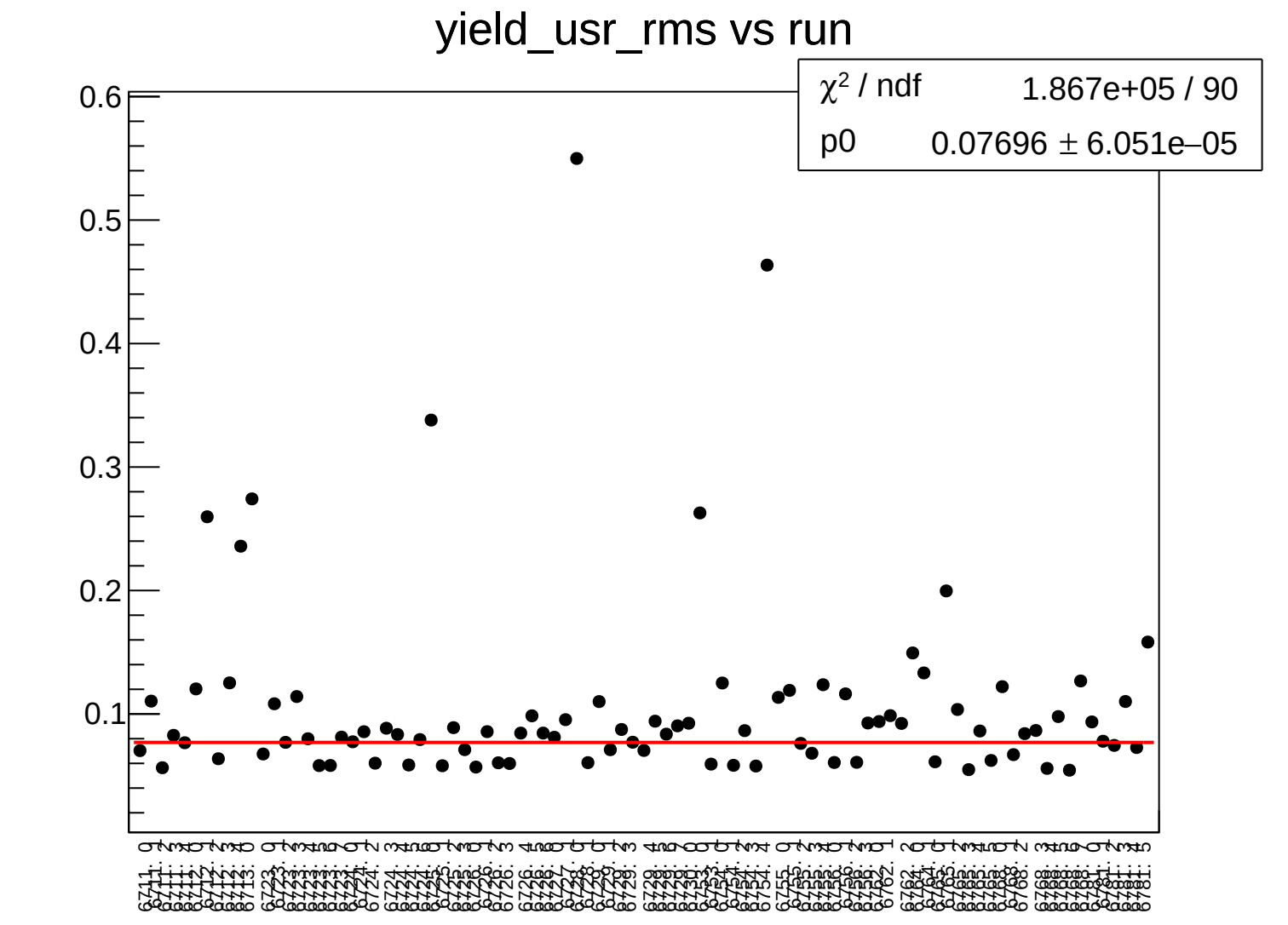

yield_usl_mean vs run
χ² / ndf 9.804e+05 / 90
p0 31.71± 8.691e−05
32
31.9
31.8
31.7
31.6
31.5
31.4
pull
Entries 91
Mean −464.7
Std Dev 0
300
250
200
150
100
50
0
−50
−100
−150

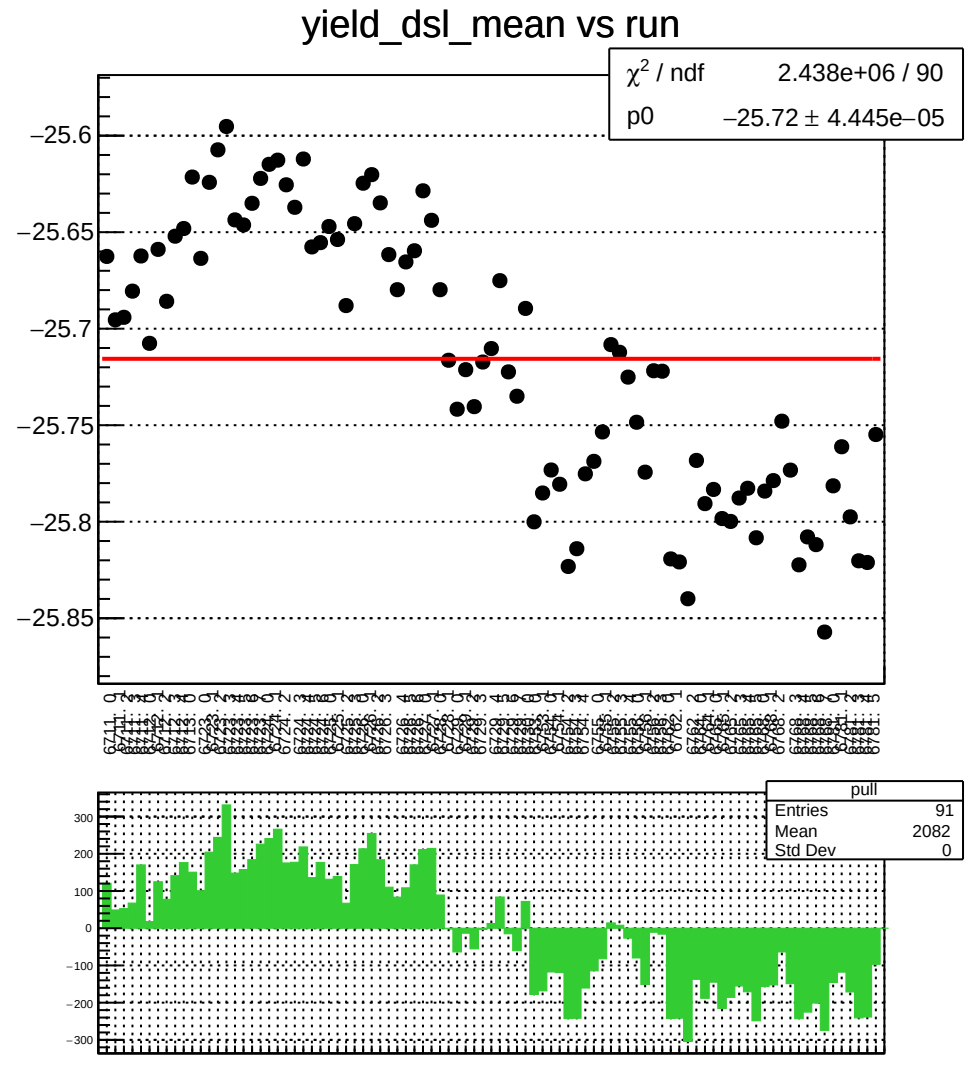

pull1D
Entries 91
Mean −0.728
Std Dev 5.536
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

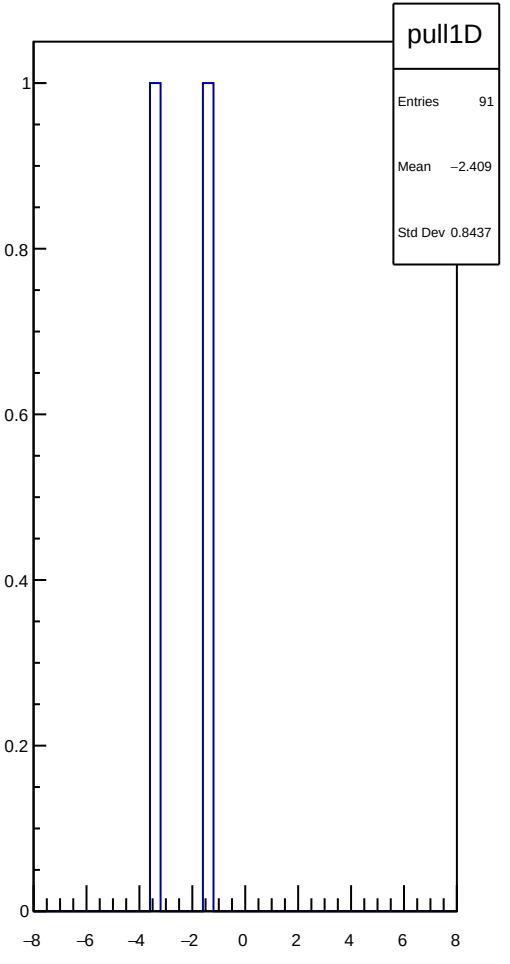

yield_usl_rms vs run
χ² / ndf 2.122e+05 / 90
p0 0.07754 ± 6.145e–05
0.5
0.4
0.3
0.2
0.1

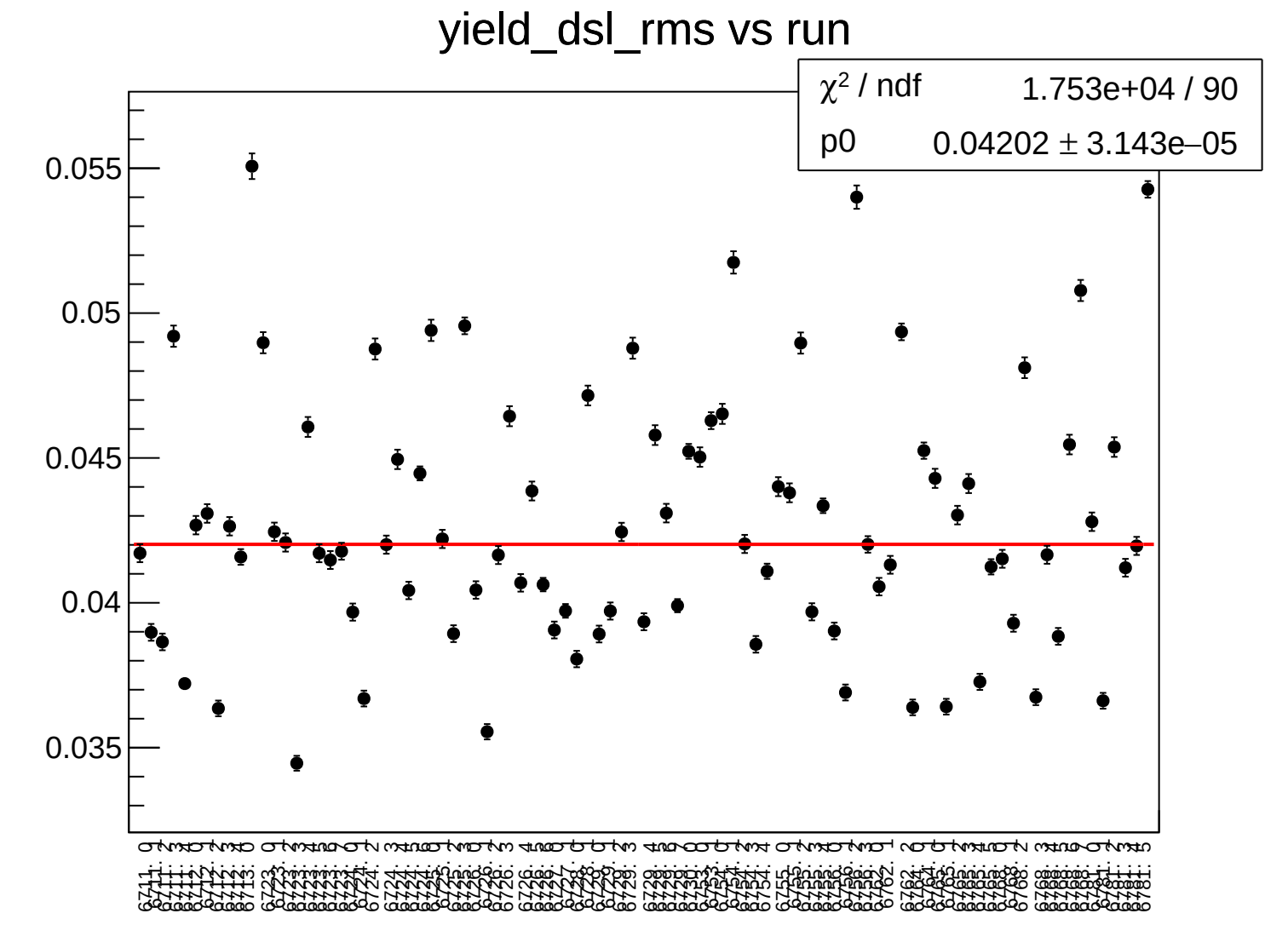

yield_usr_mean vs run
χ² / ndf 1.957e+07 / 90
p0 32.66 ± 8.558e−05
33.4
33.2
33
32.8
32.6
32.4
32.2
pull
Entries 91
Mean 831.8
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

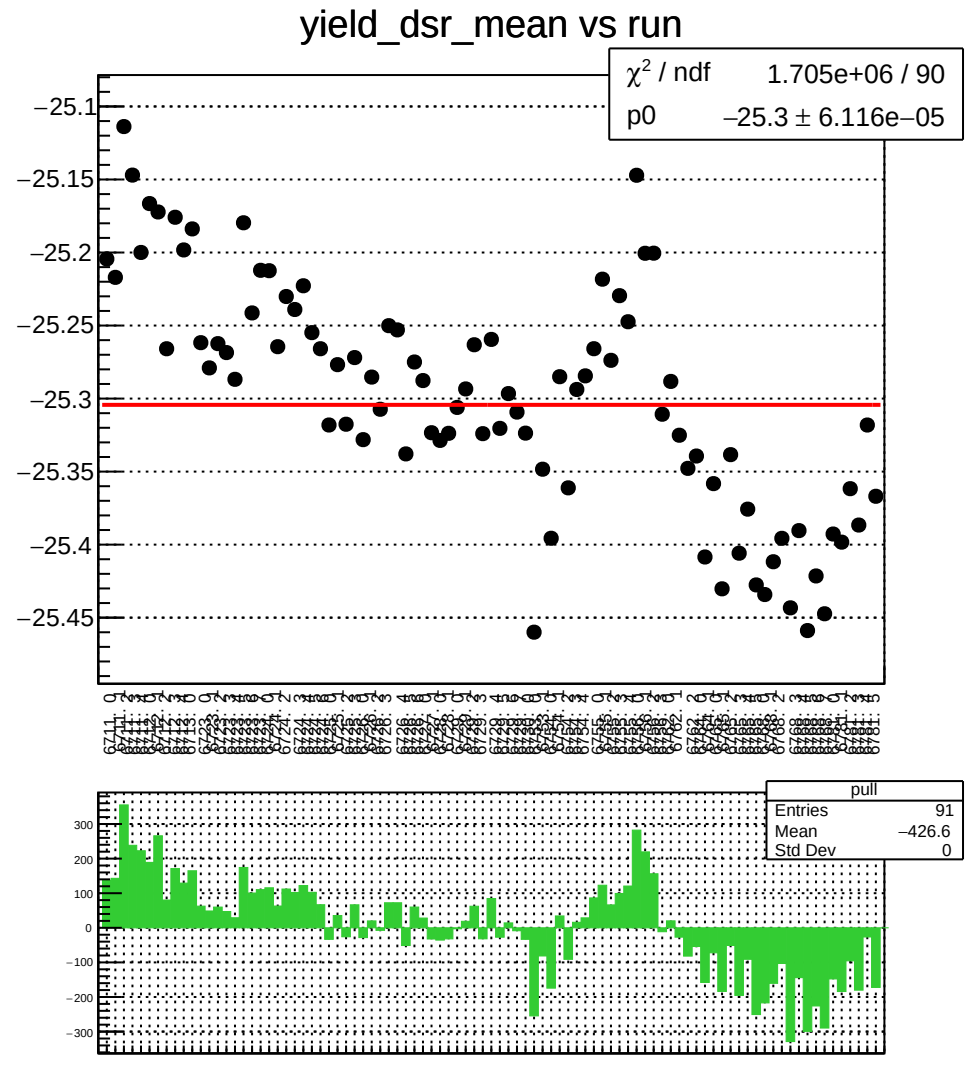

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

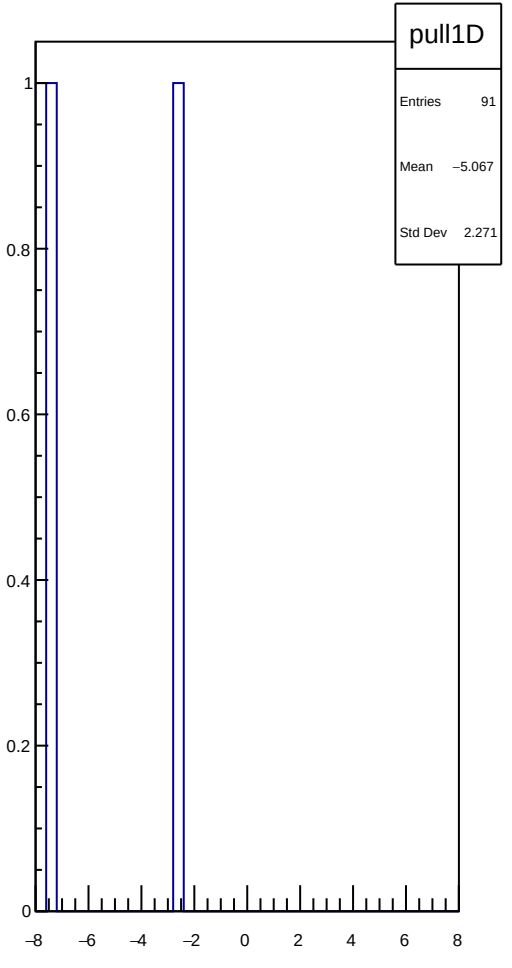

yield_usr_rms vs run
χ² / ndf 1.867e+05 / 90
p0 0.07696 ± 6.051e−05
0.6
0.5
0.4
0.3
0.2
0.1

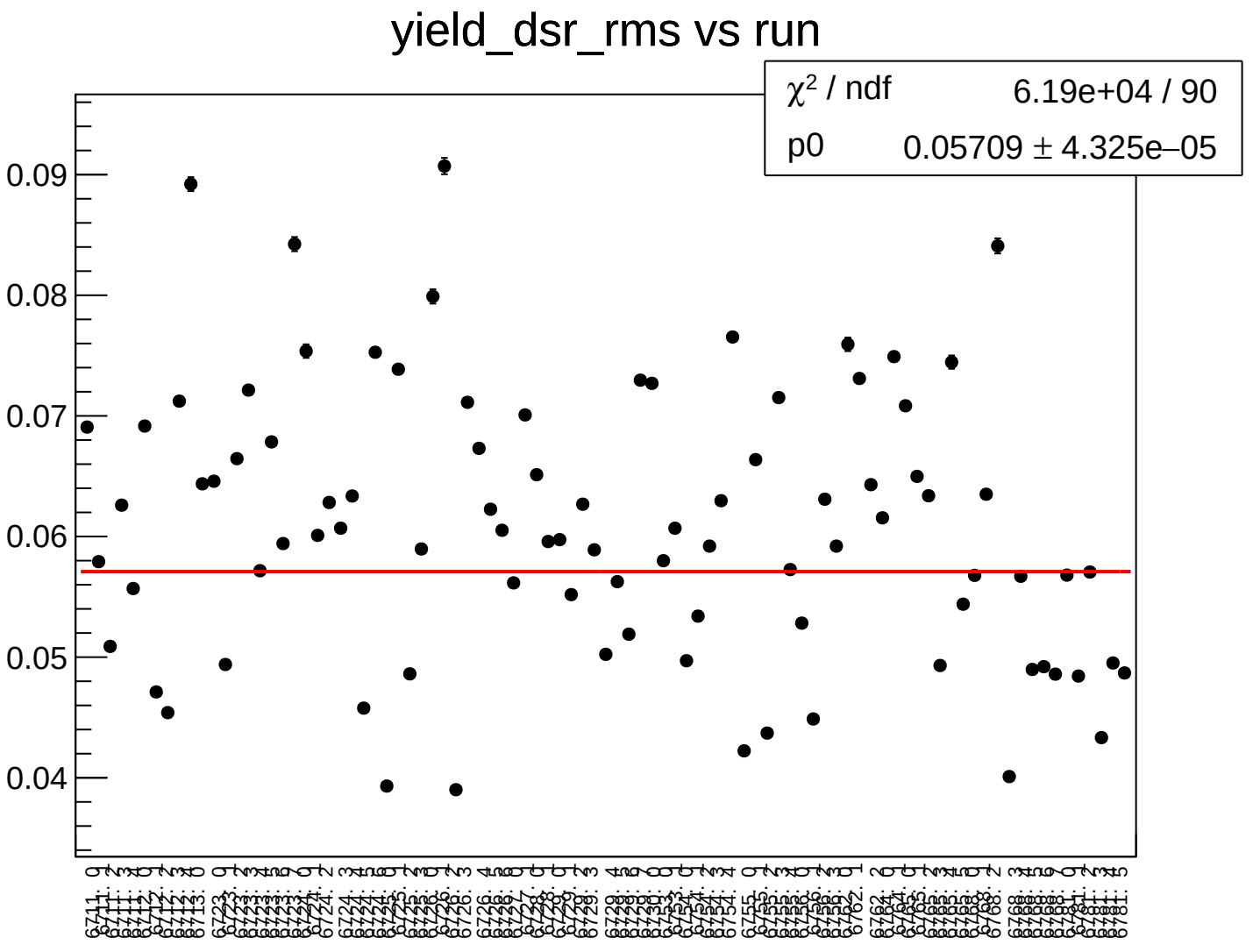

yield_dsl_mean vs run
χ² / ndf 2.438e+06 / 90
p0 −25.72 ± 4.445e−05
−25.6
−25.65
−25.7
−25.75
−25.8
−25.85
pull
Entries 91
Mean 2082
Std Dev 0
300
200
100
0
−100
−200
−300

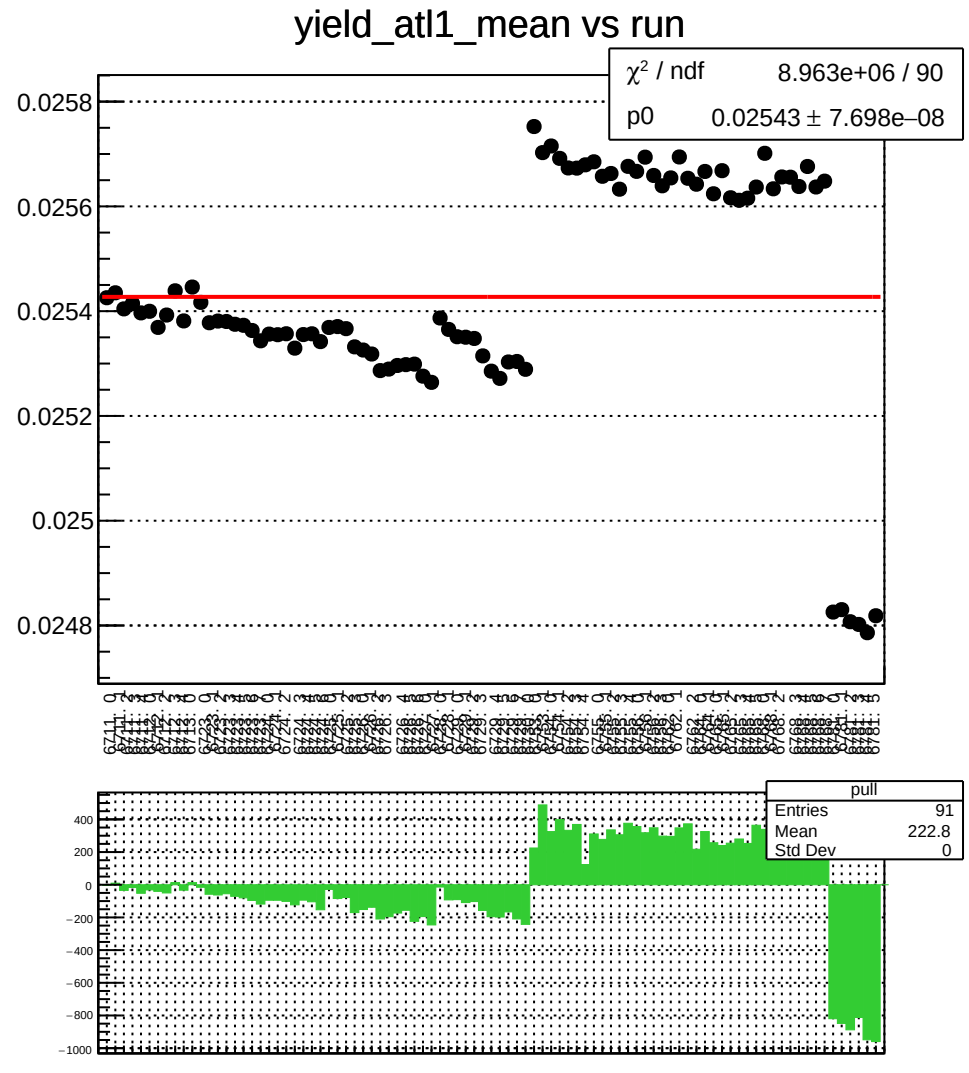

pull1D
Entries 91
Mean −2.409
Std Dev 0.8437
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

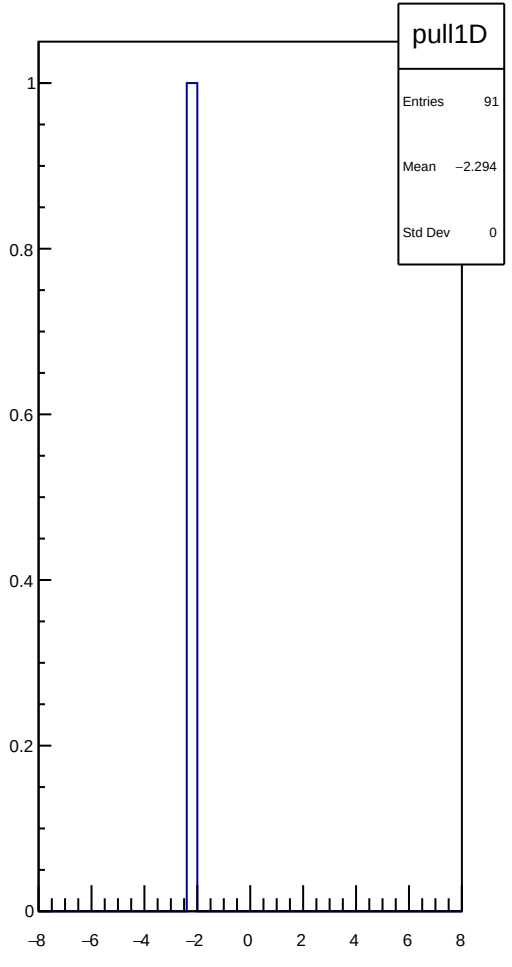

yield_dsl_rms vs run
χ² / ndf 1.753e+04 / 90
p0 0.04202 ± 3.143e−05
0.055
0.05
0.045
0.04
0.035

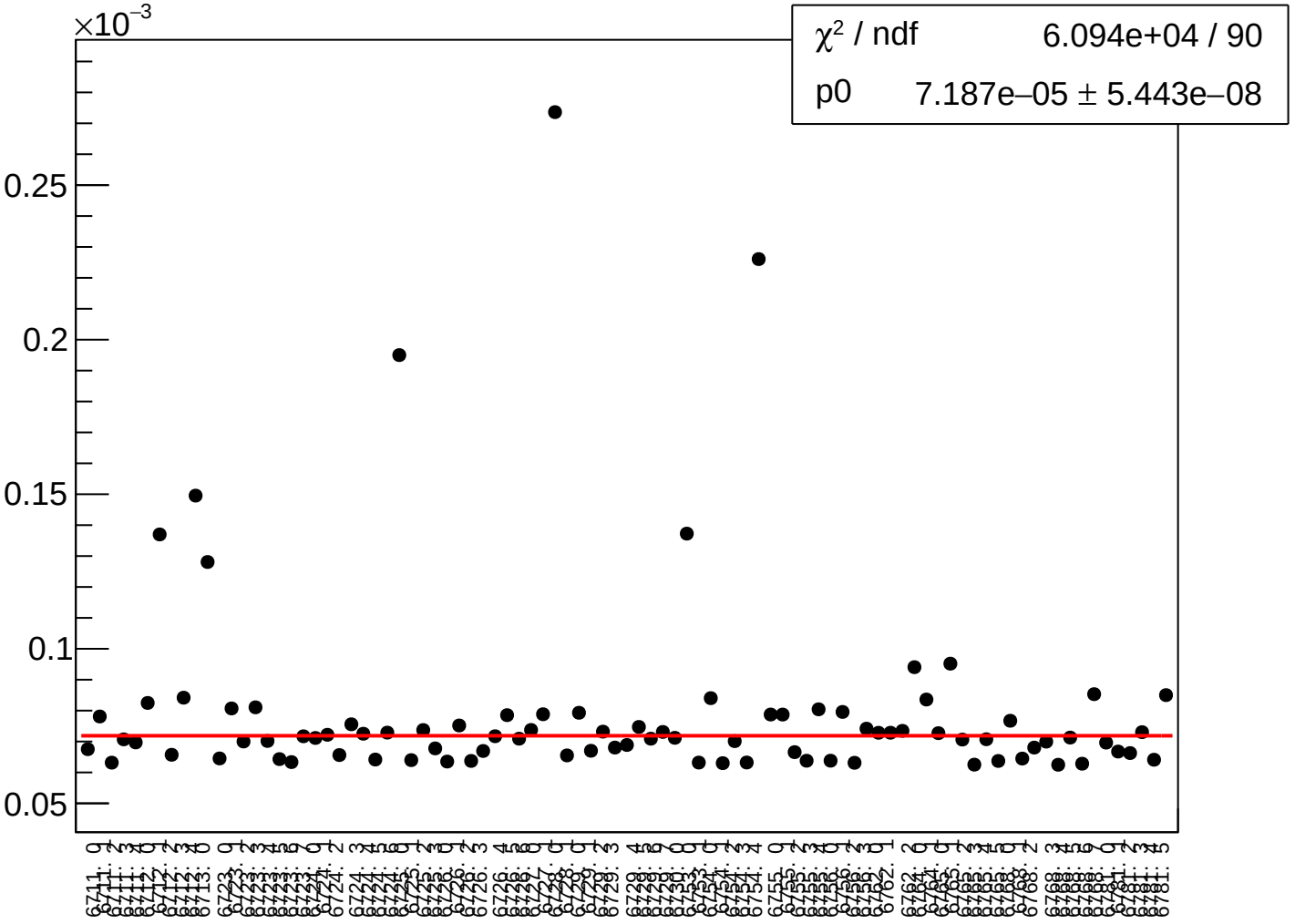

yield_dsr_mean vs run
χ² / ndf 1.705e+06 / 90
p0 −25.3 ± 6.116e−05
−25.1
−25.15
−25.2
−25.25
−25.3
−25.35
−25.4
−25.45
pull
Entries 91
Mean −426.6
Std Dev 0
300
200
100
0
−100
−200
−300

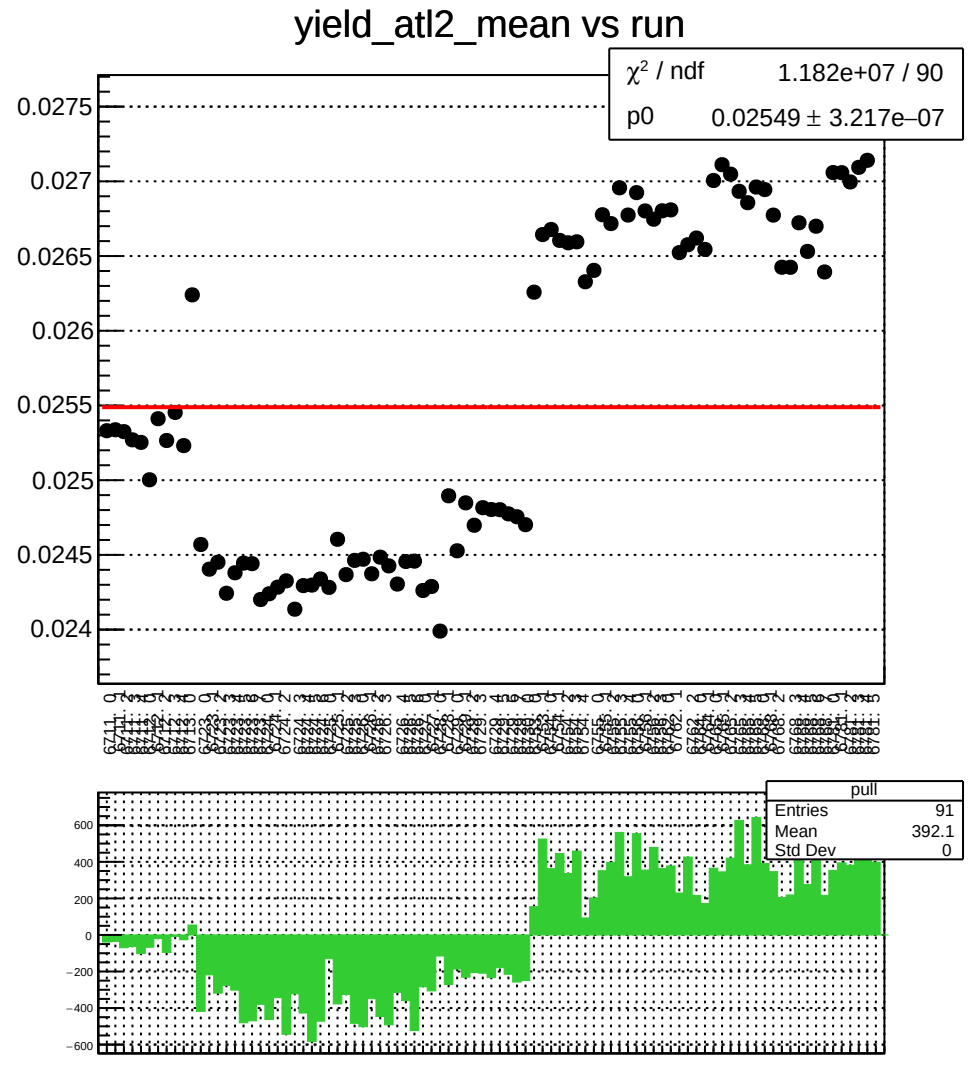

pull1D
Entries 91
Mean −5.067
Std Dev 2.271
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

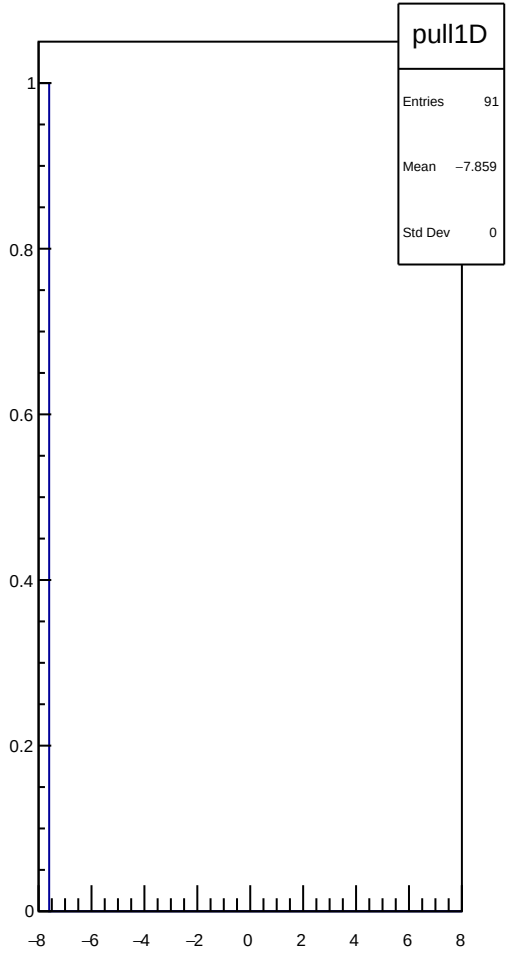

yield_dsr_rms vs run
χ² / ndf 6.19e+04 / 90
p0 0.05709 ± 4.325e−05
0.09
0.08
0.07
0.06
0.05
0.04

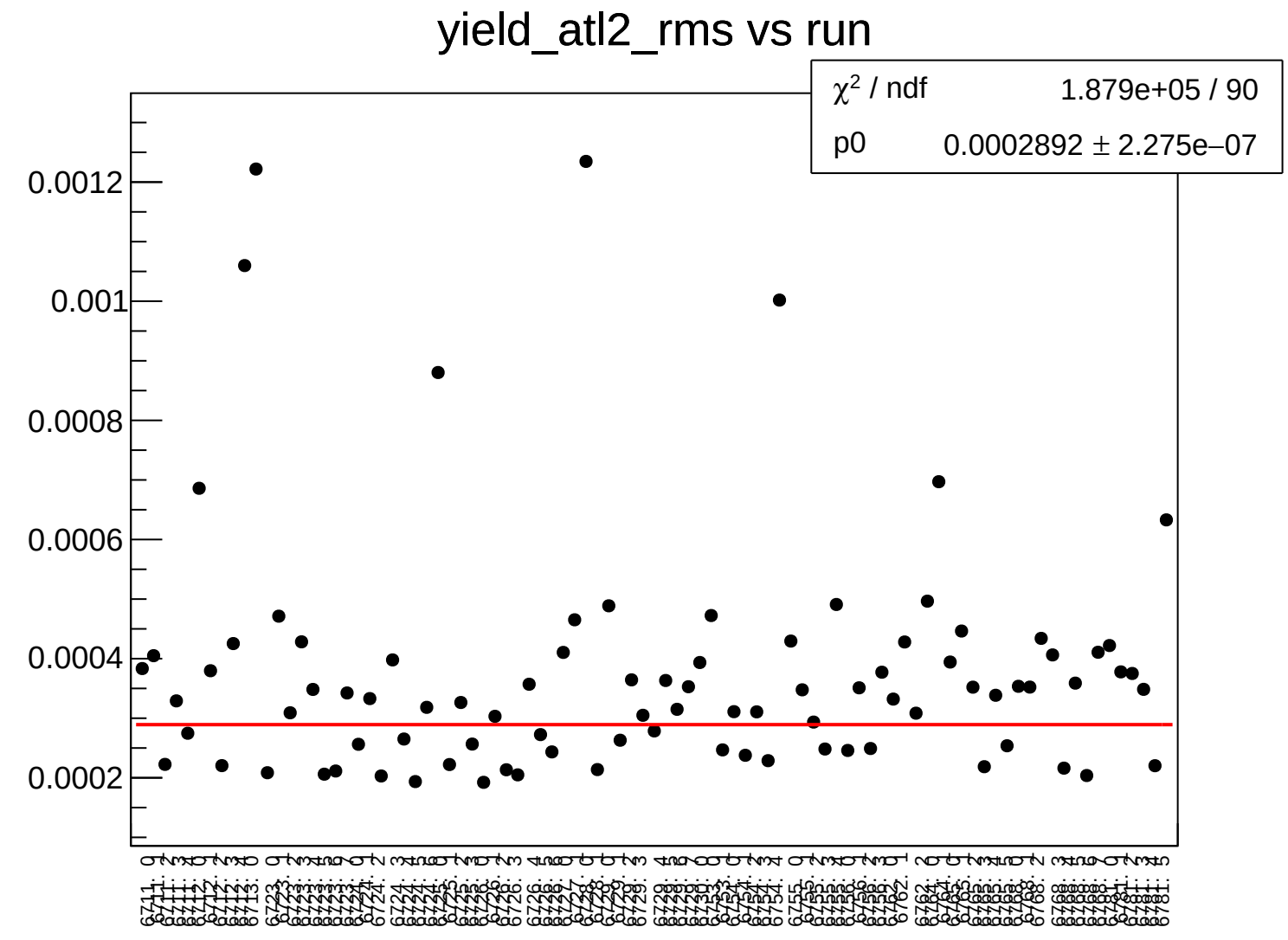

yield_atl1_mean vs run
χ² / ndf 8.963e+06 / 90
p0 0.02543 ± 7.698e−08
0.0258
0.0256
0.0254
0.0252
0.025
0.0248
pull
Entries 91
Mean 222.8
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000

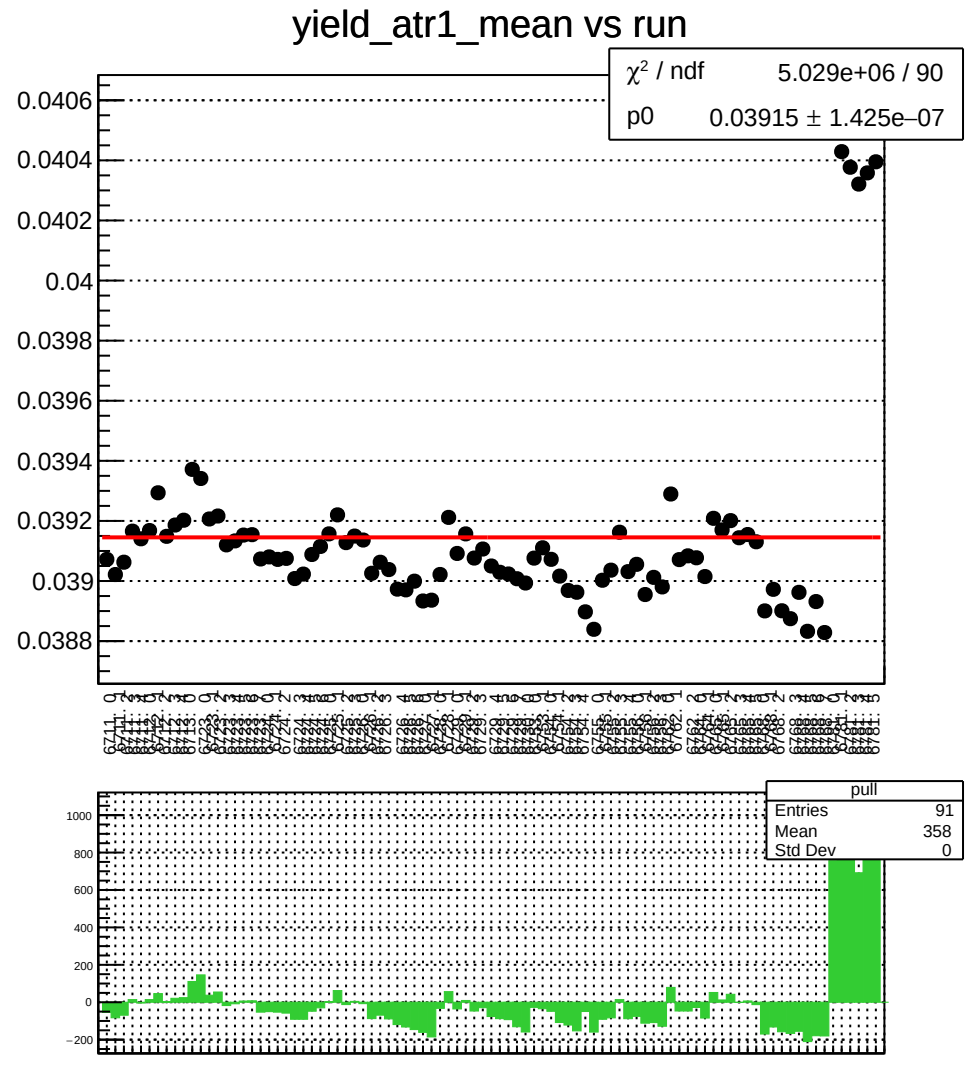

pull1D
Entries 91
Mean −2.294
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

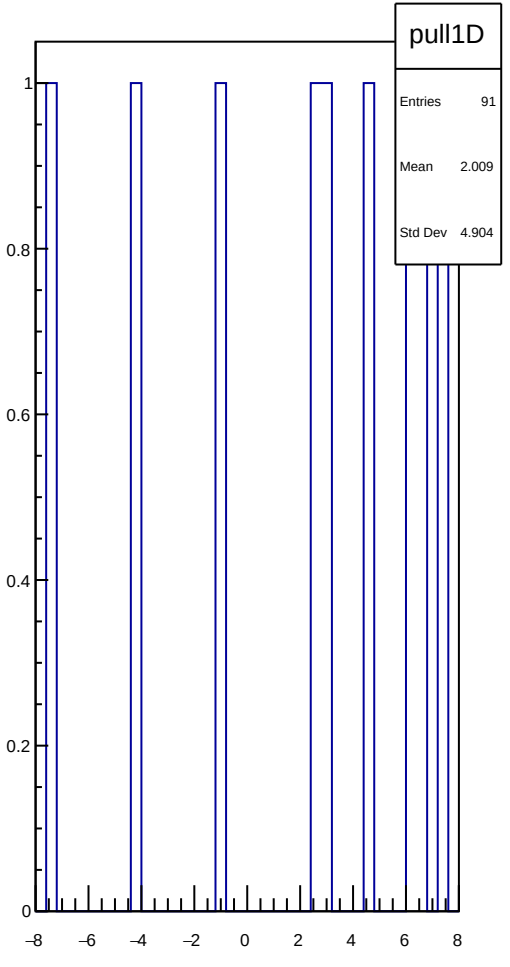

yield_atl1_rms vs run
×10⁻³
χ² / ndf 6.094e+04 / 90
p0 7.187e−05 ± 5.443e−08
0.25
0.2
0.15
0.1
0.05

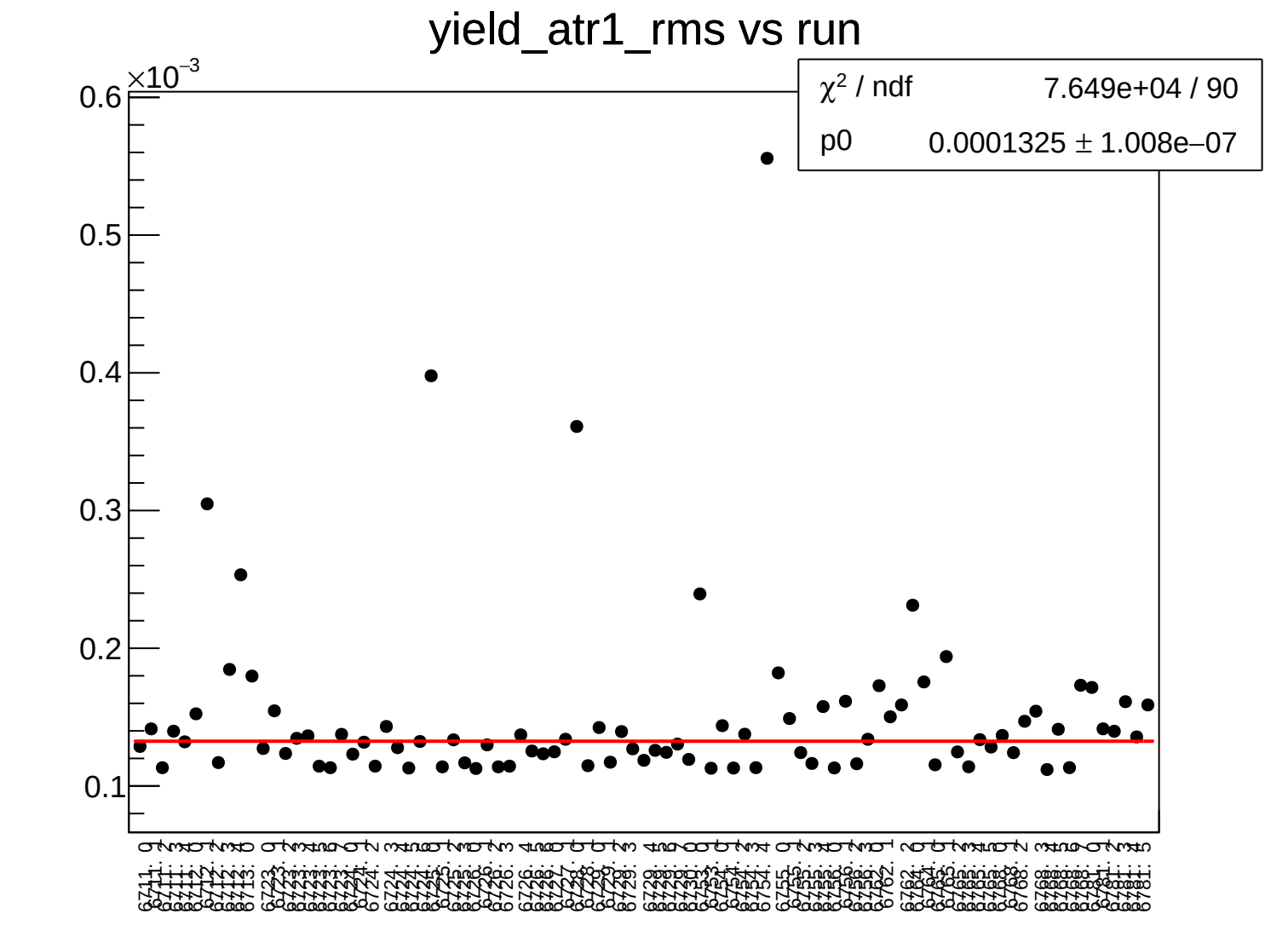

yield_atl2_mean vs run
χ² / ndf 1.182e+07 / 90
p0 0.02549 ± 3.217e–07
0.0275
0.027
0.0265
0.026
0.0255
0.025
0.0245
0.024
pull
Entries 91
Mean 392.1
Std Dev 0
600
400
200
0
–200
–400
–600

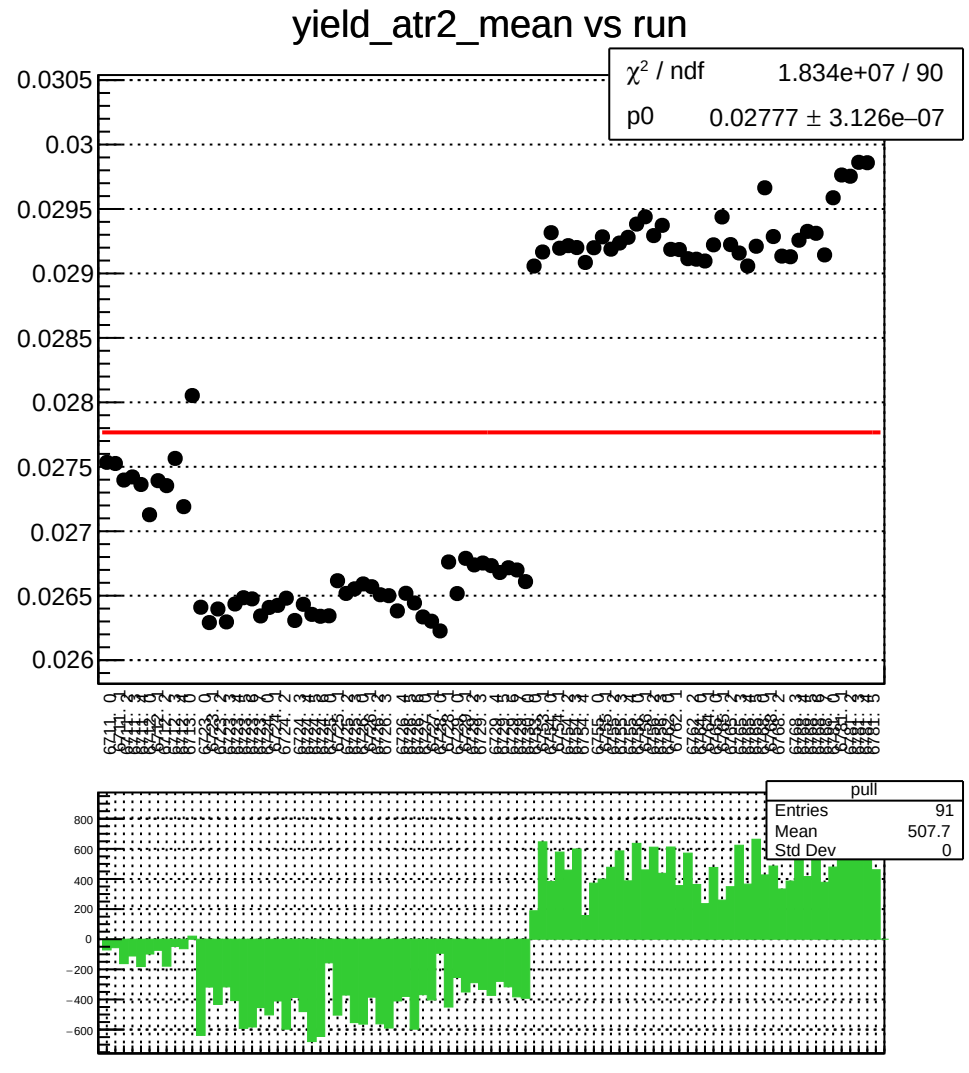

pull1D
Entries 91
Mean –7.859
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

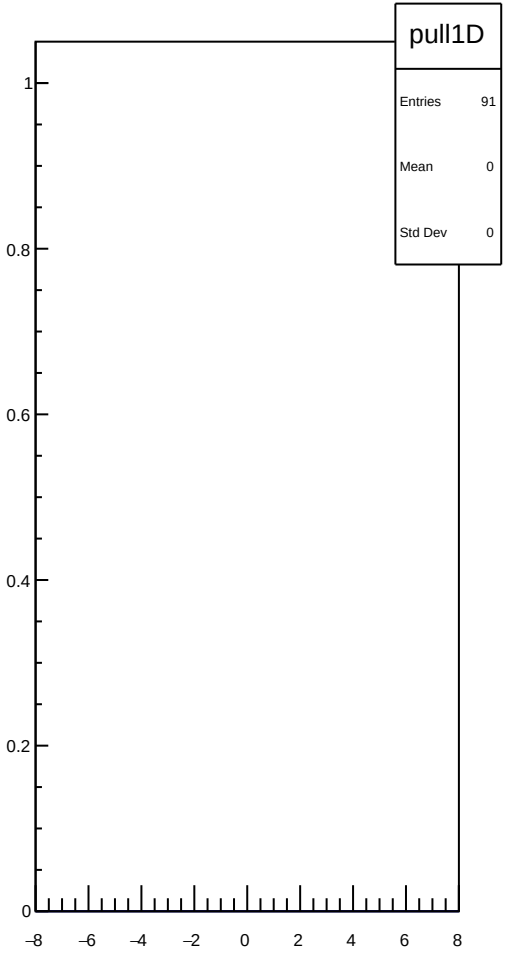

yield_atl2_rms vs run
χ² / ndf 1.879e+05 / 90
p0 0.0002892 ± 2.275e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

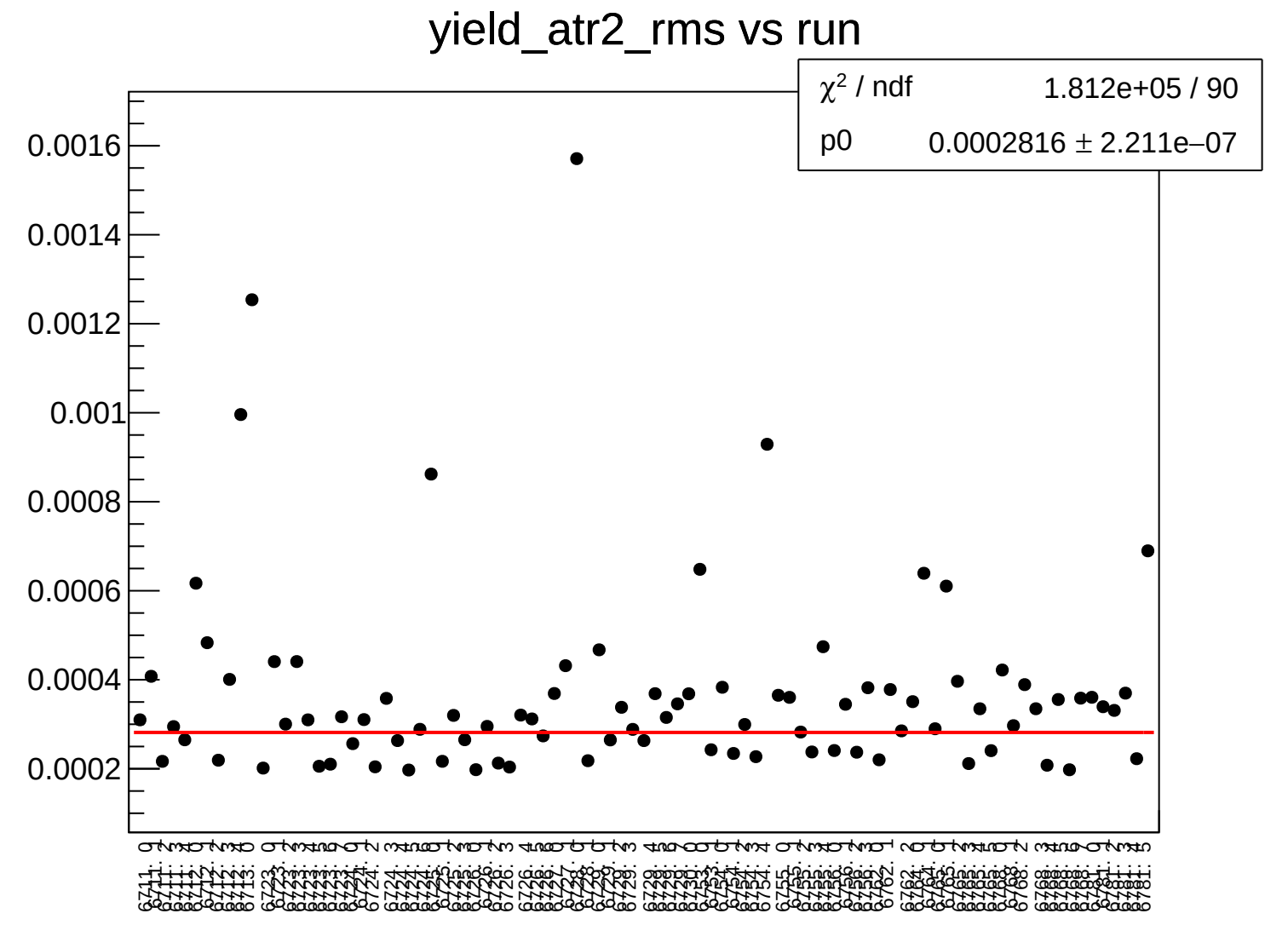

yield_atr1_mean vs run
χ² / ndf 5.029e+06 / 90
p0 0.03915 ± 1.425e−07
0.0406
0.0404
0.0402
0.04
0.0398
0.0396
0.0394
0.0392
0.039
0.0388
pull
Entries 91
Mean 358
Std Dev 0
1000
800
600
400
200
0
−200

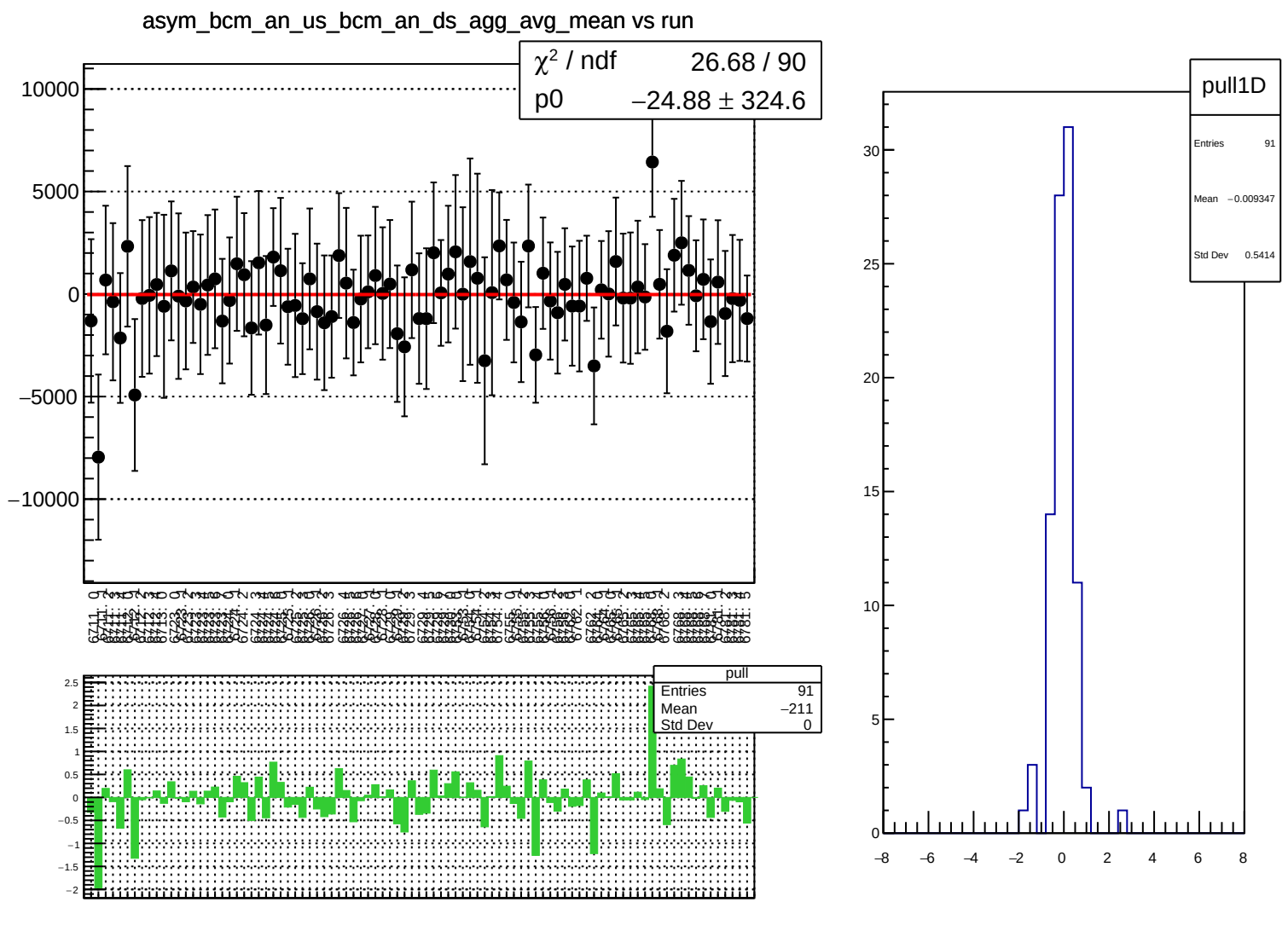

pull1D
Entries 91
Mean 2.009
Std Dev 4.904
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

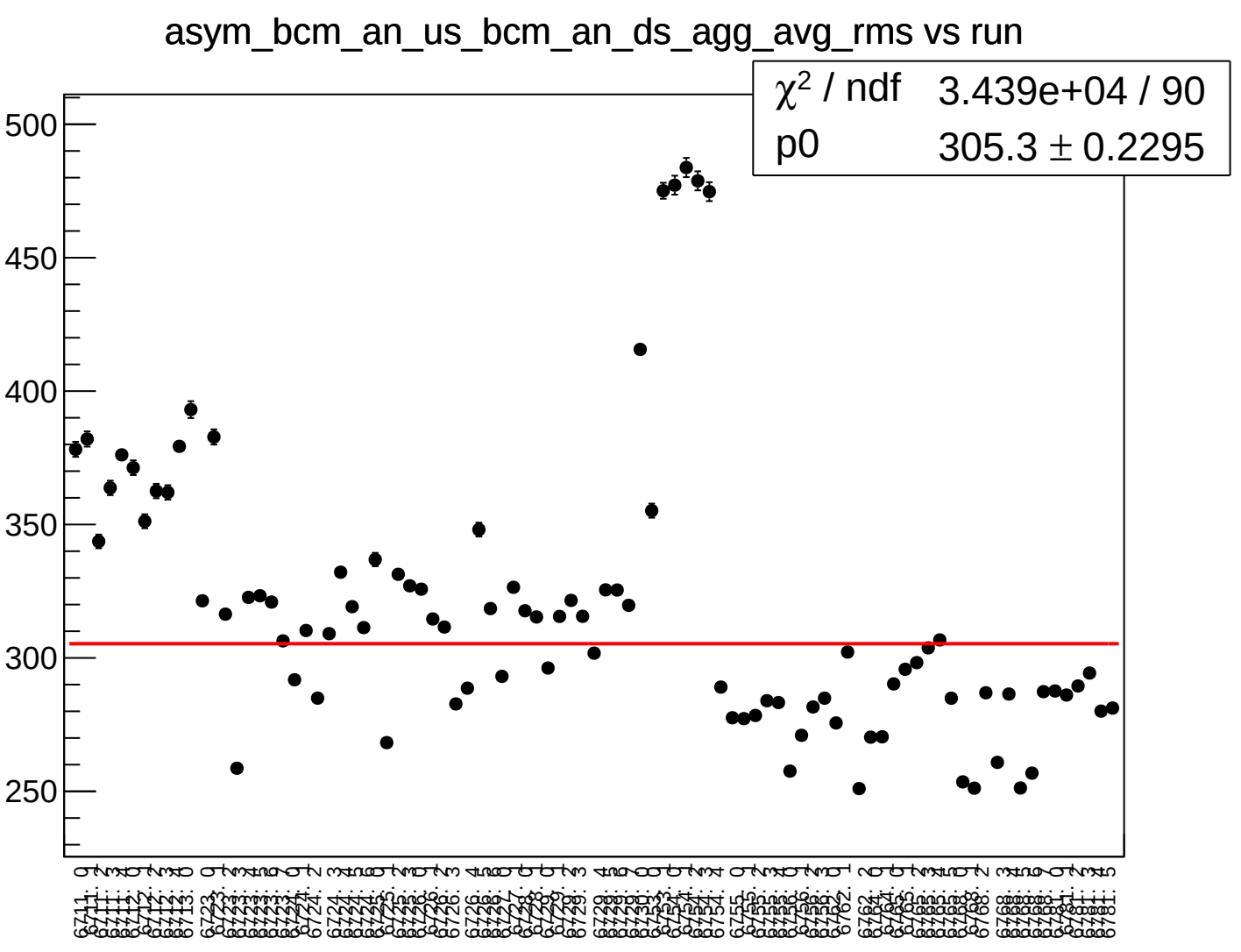

yield_atr1_rms vs run
×10⁻³
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 7.649e+04 / 90
p0 0.0001325 ± 1.008e−07

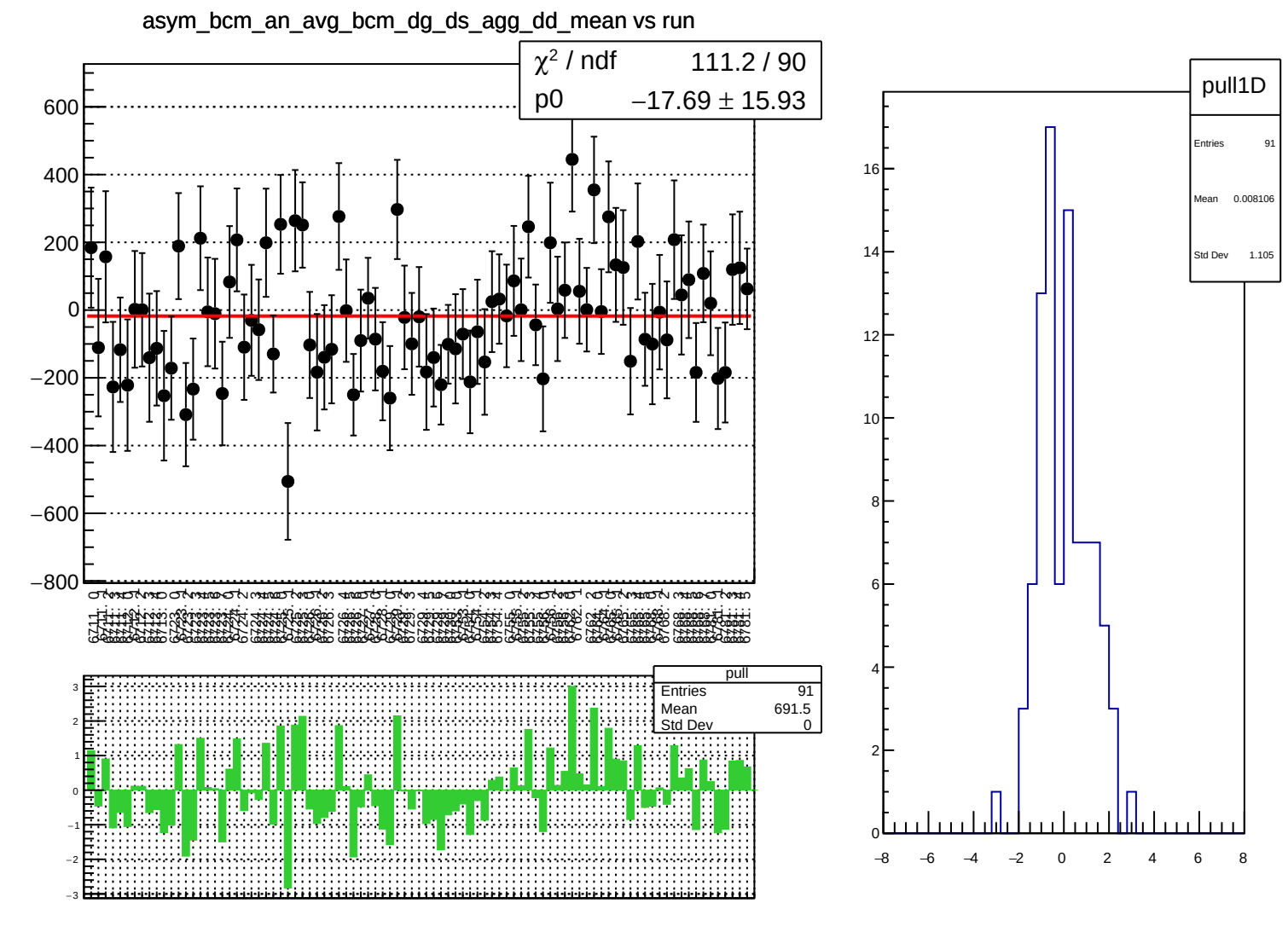

yield_atr2_mean vs run
χ² / ndf 1.834e+07 / 90
p0 0.02777 ± 3.126e–07
0.0305
0.03
0.0295
0.029
0.0285
0.028
0.0275
0.027
0.0265
0.026
pull
Entries 91
Mean 507.7
Std Dev 0
800
600
400
200
0
–200
–400
–600

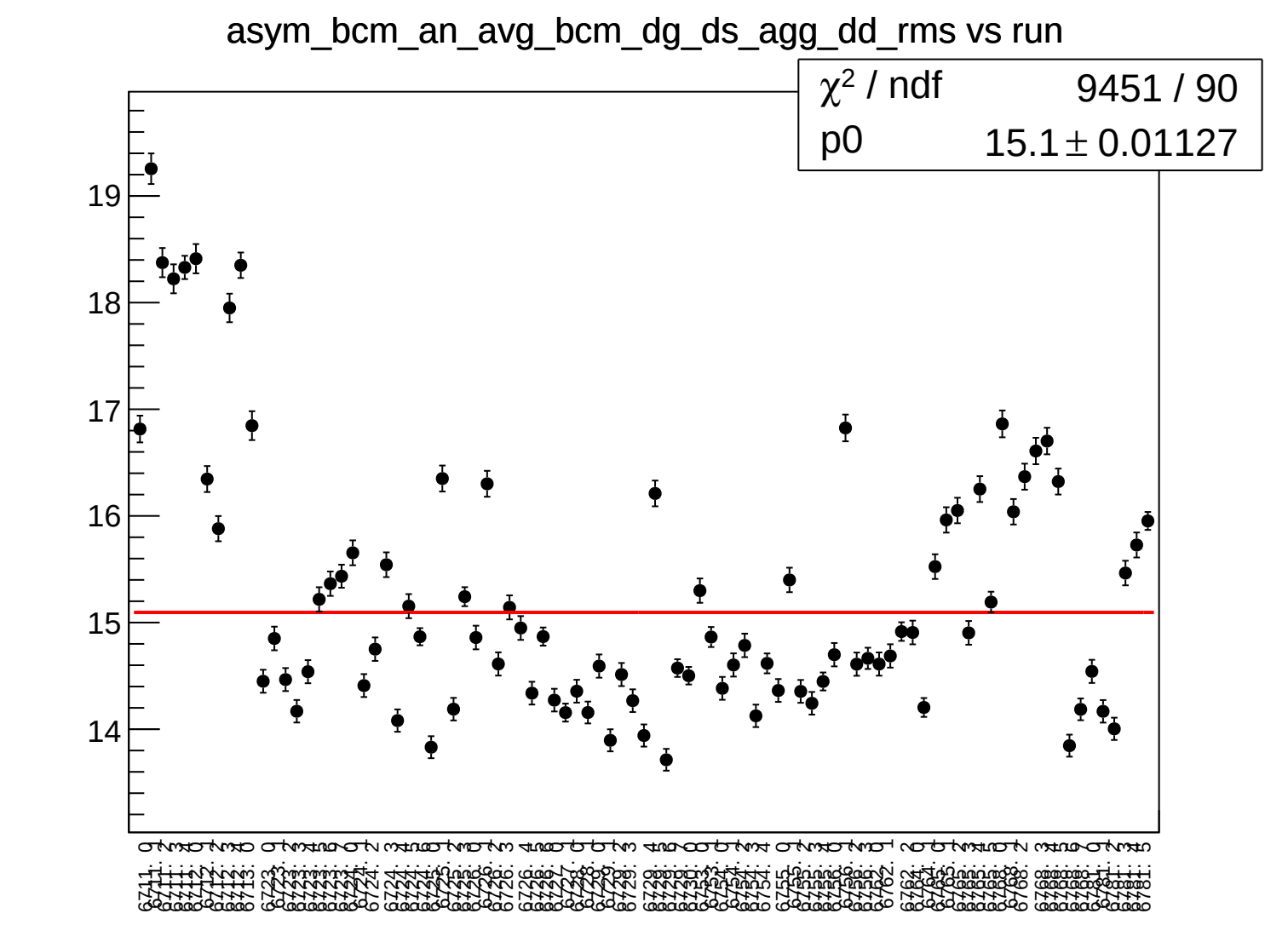

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

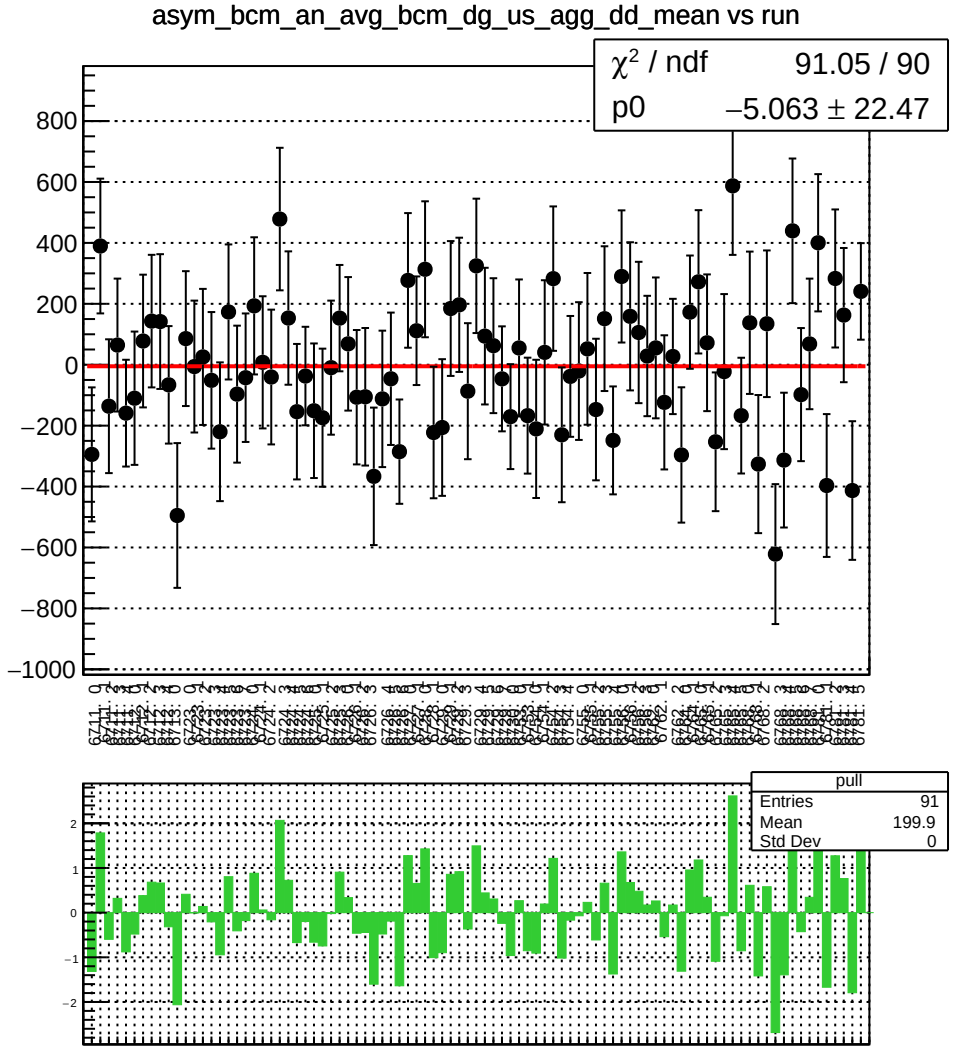

yield_atr2_rms vs run
χ² / ndf 1.812e+05 / 90
p0 0.0002816 ± 2.211e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

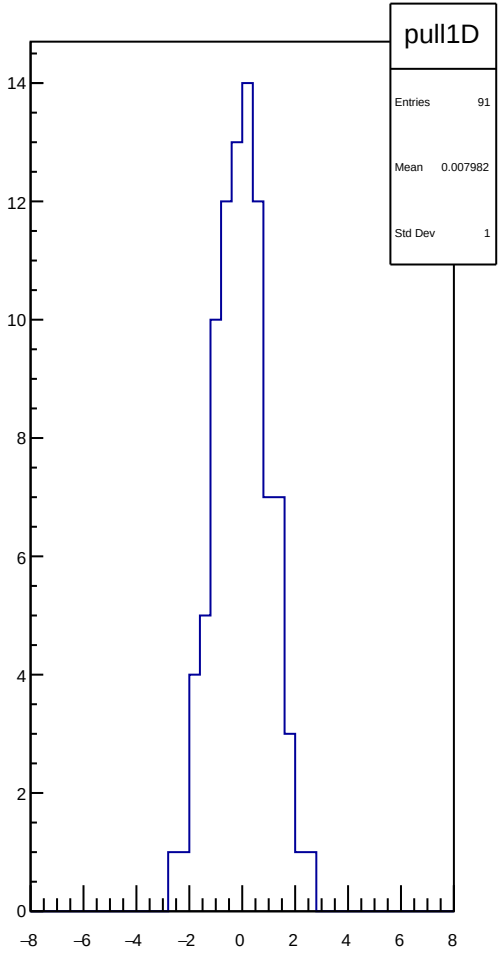

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 26.68 / 90
p0 −24.88 ± 324.6
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −211
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean −0.009347
Std Dev 0.5414
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

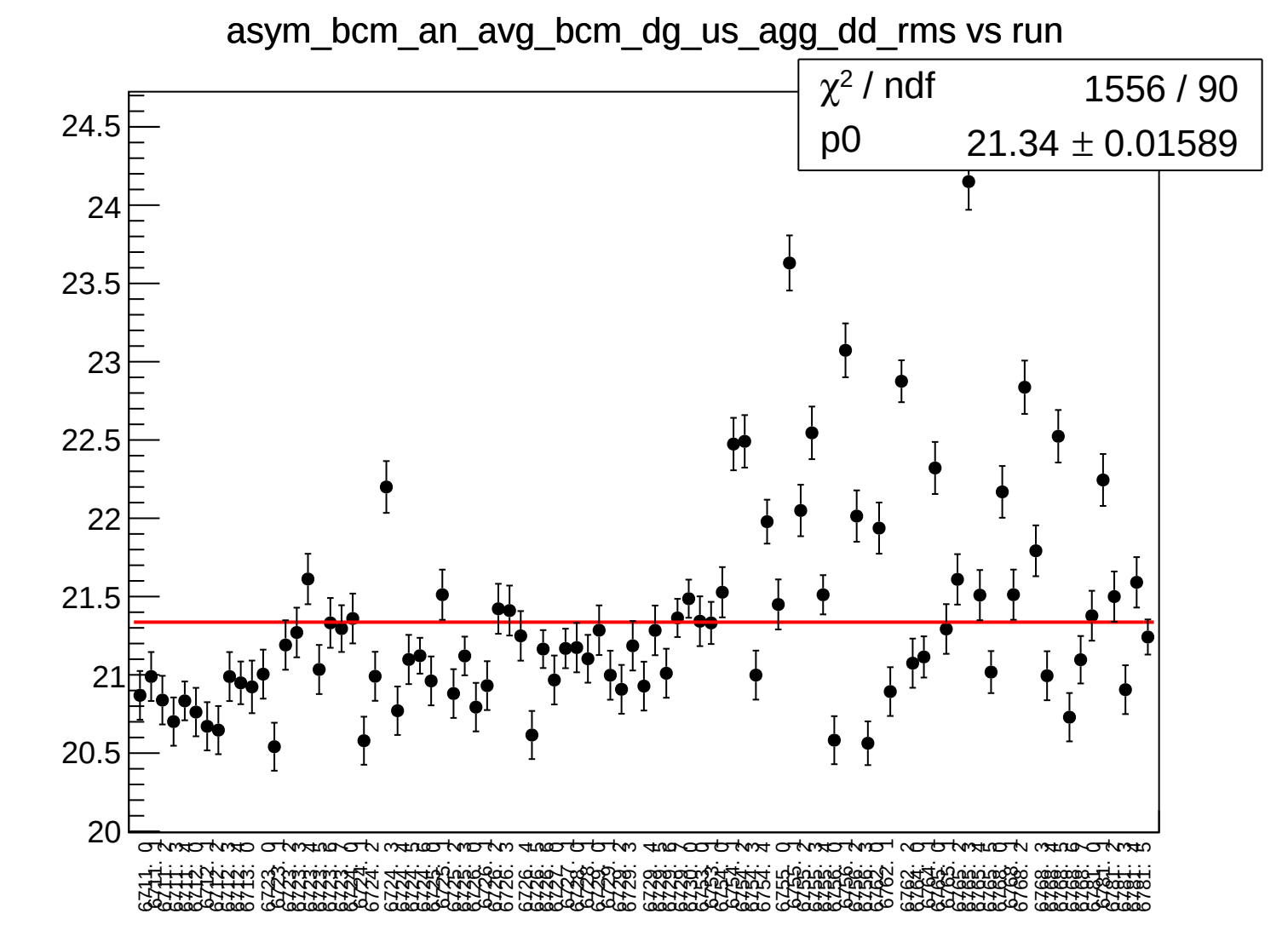

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.439e+04 / 90
p0 305.3 ± 0.2295
500
450
400
350
300
250

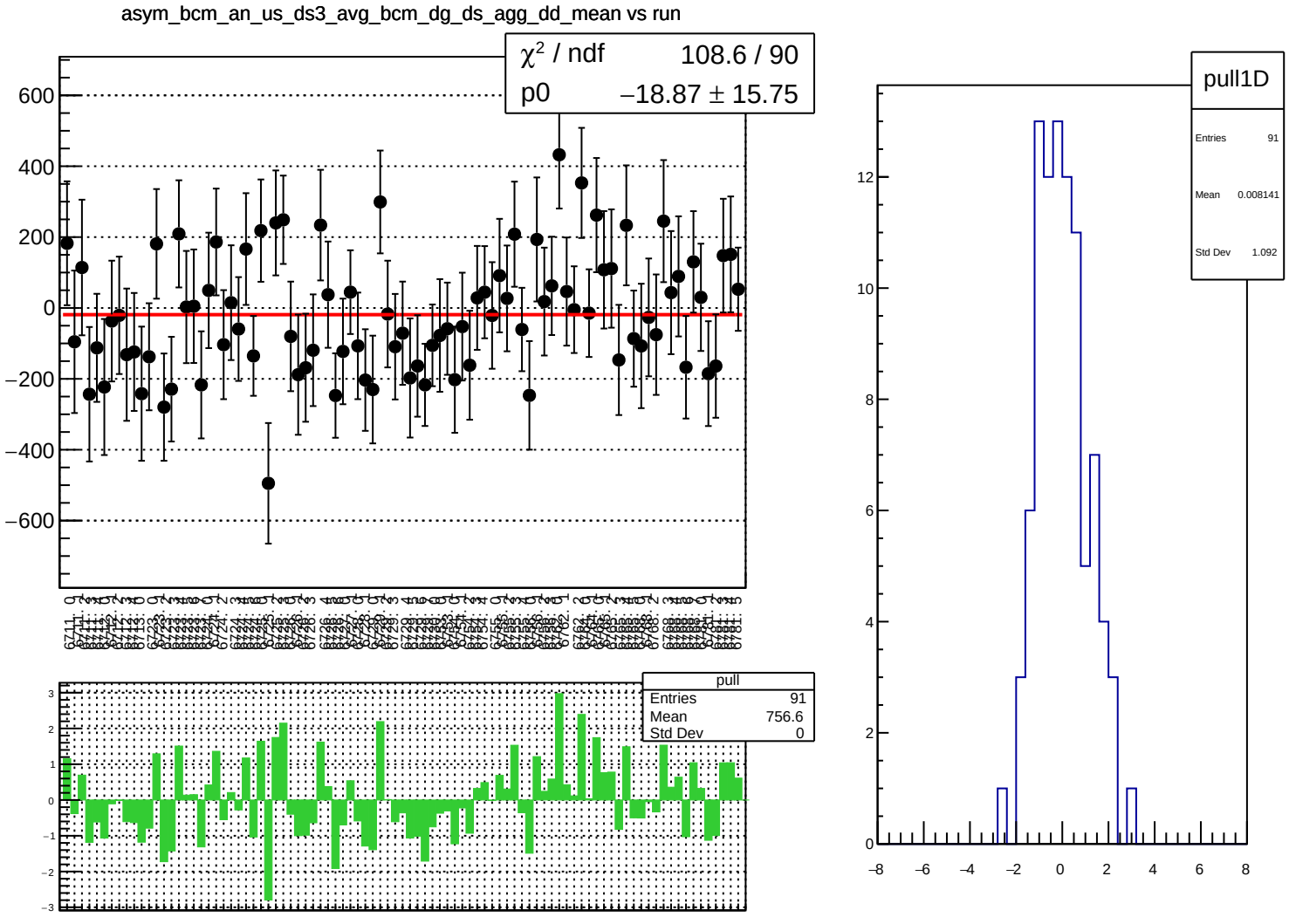

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 111.2 / 90
p0 −17.69 ± 15.93
pull
Entries 91
Mean 691.5
Std Dev 0
pull1D
Entries 91
Mean 0.008106
Std Dev 1.105

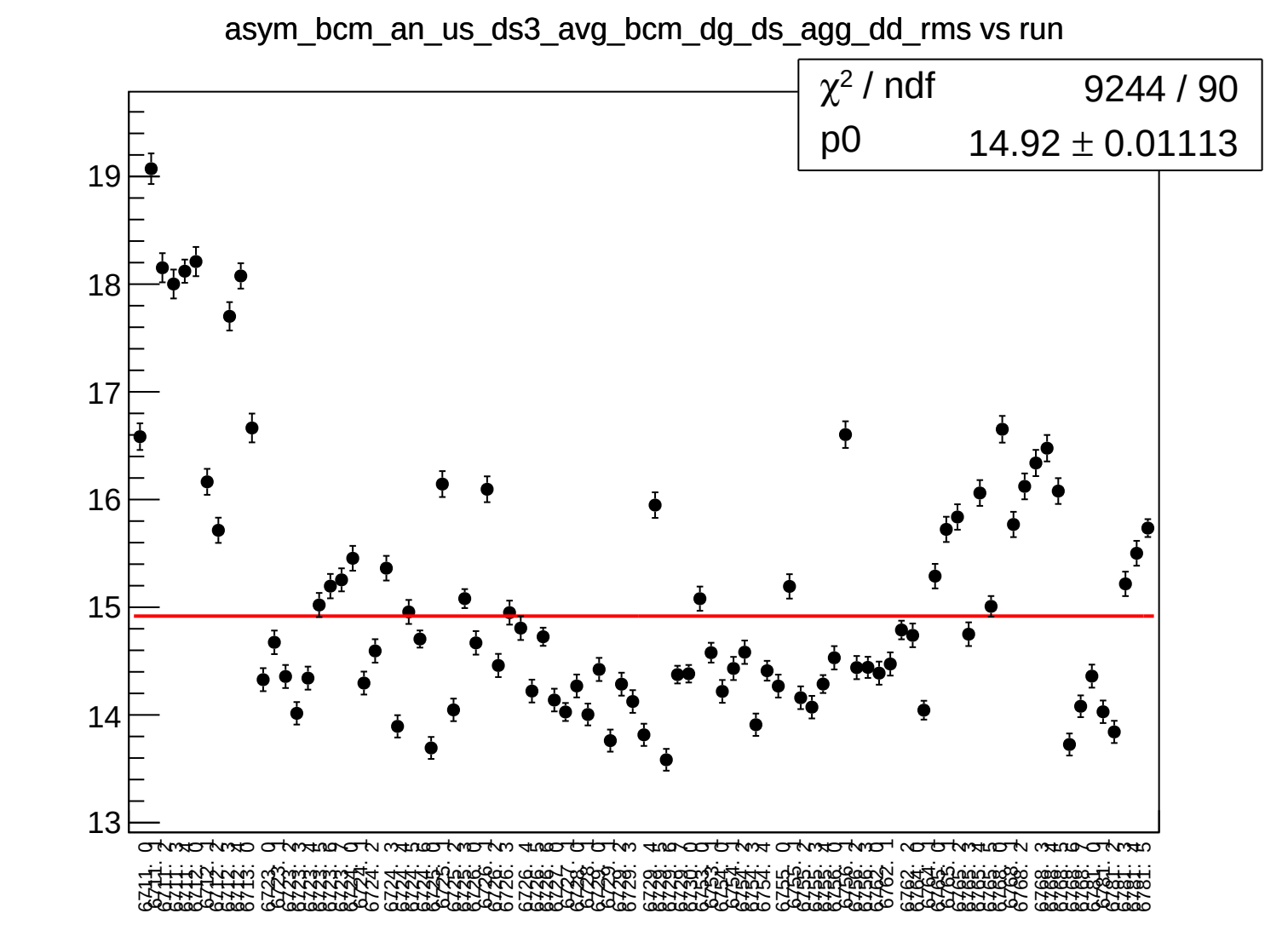

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 9451 / 90
p0 15.1 ± 0.01127
19
18
17
16
15
14

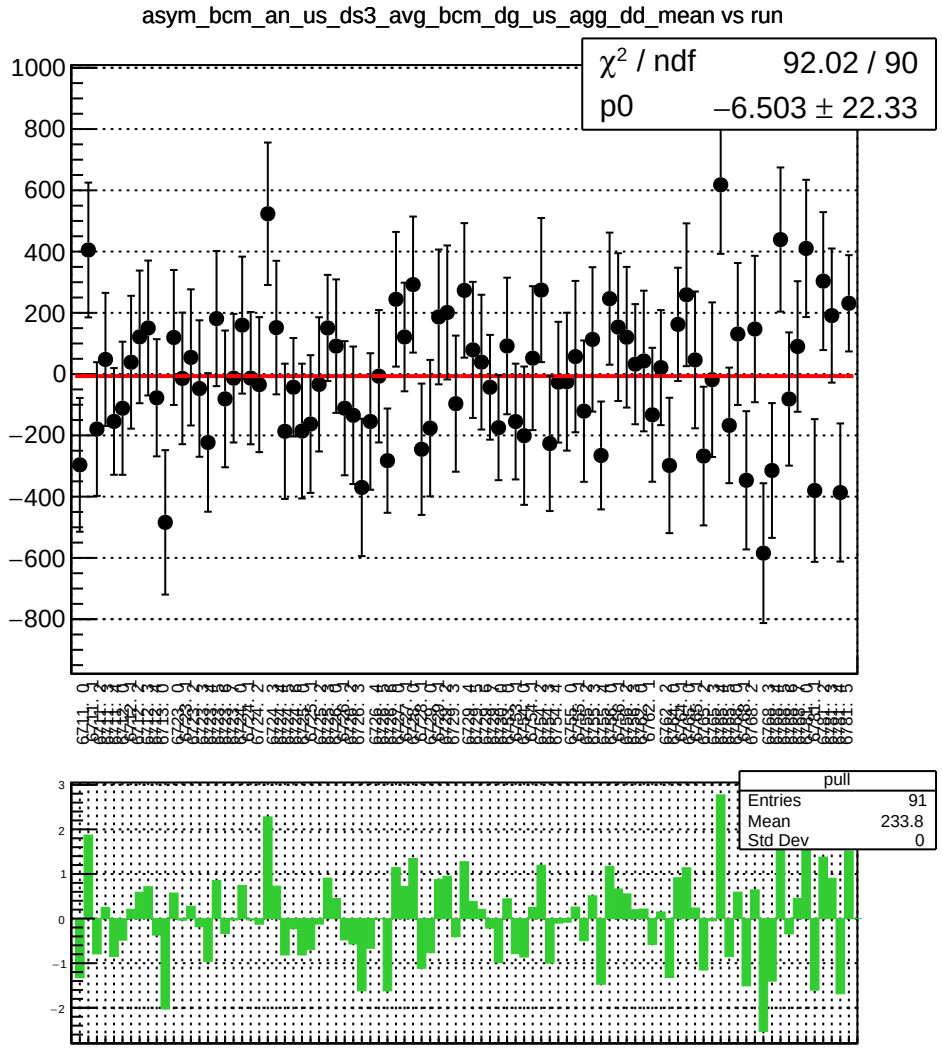

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 91.05 / 90
p0 −5.063 ± 22.47
pull
Entries 91
Mean 199.9
Std Dev 0

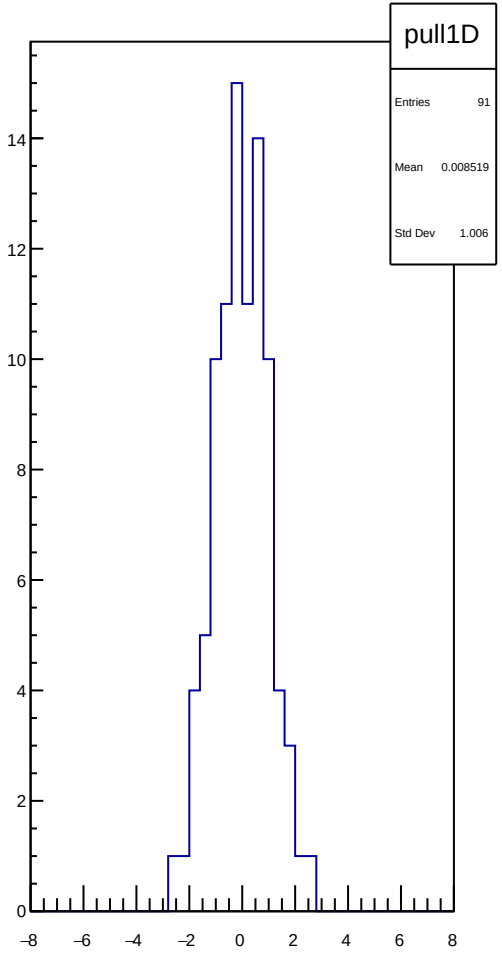

pull1D
Entries 91
Mean 0.007982
Std Dev 1

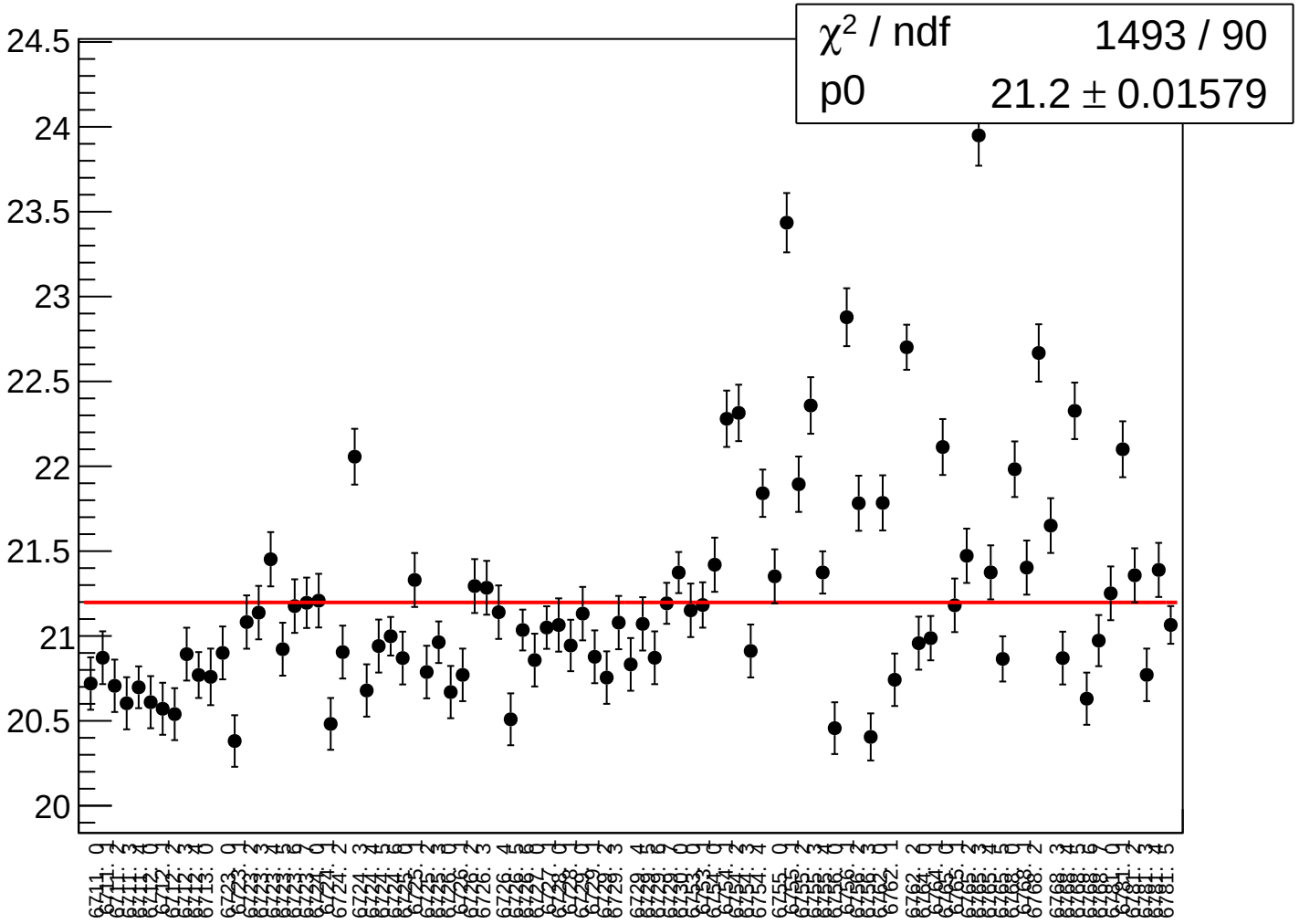

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1556 / 90
p0 21.34 ± 0.01589
24.5
24
23.5
23
22.5
22
21.5
21
20.5
20

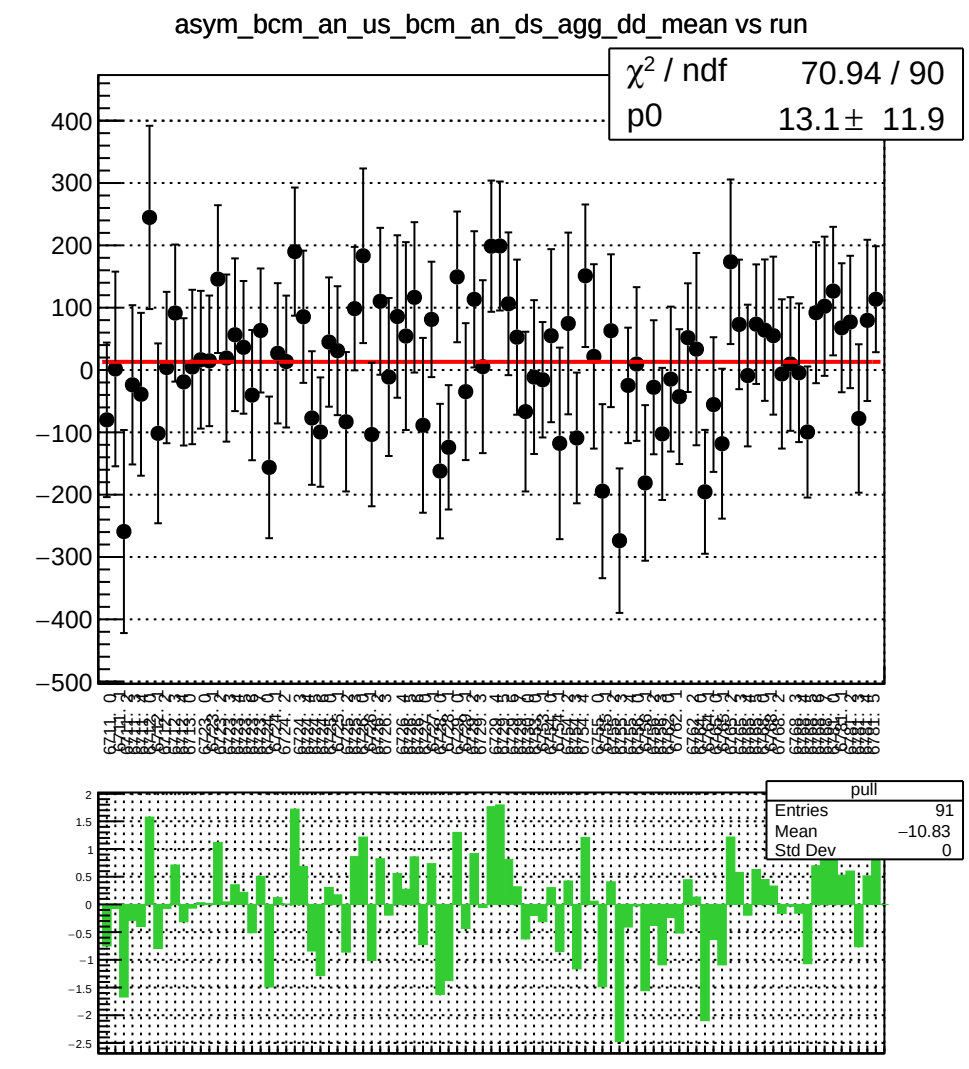

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 108.6 / 90
p0 −18.87 ± 15.75
600
400
200
0
−200
−400
−600
pull
Entries 91
Mean 756.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.008141
Std Dev 1.092
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

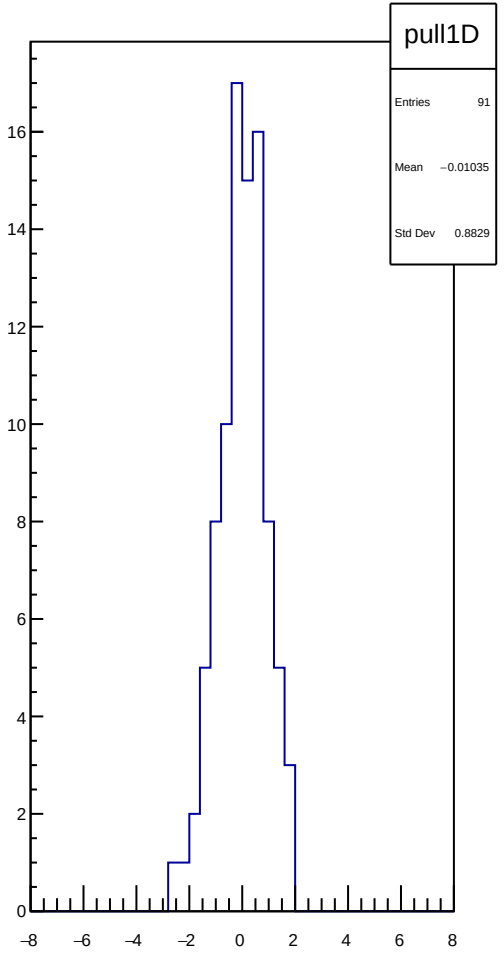

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 9244 / 90
p0 14.92 ± 0.01113
19
18
17
16
15
14
13

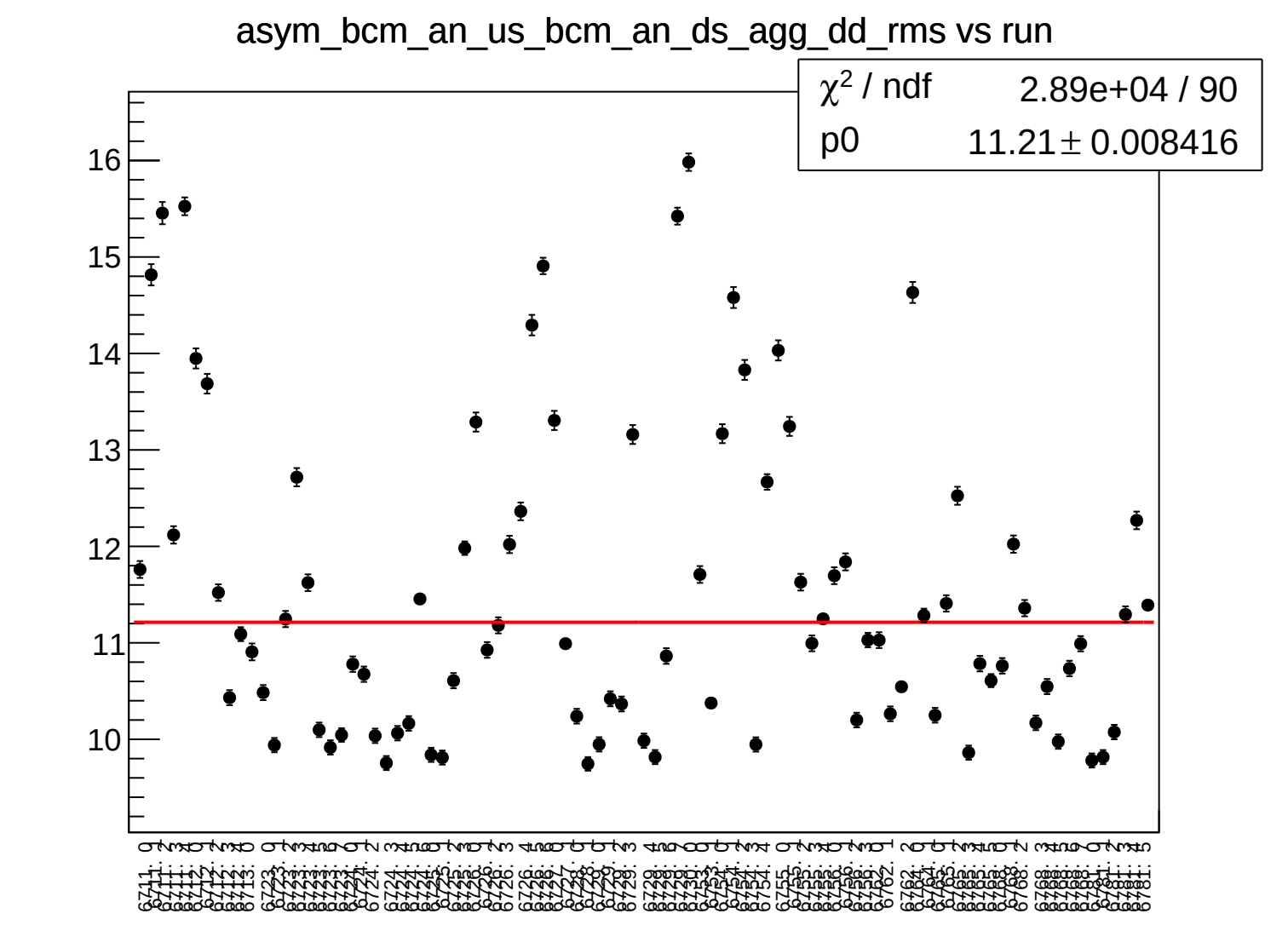

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 92.02 / 90
p0 −6.503 ± 22.33
pull
Entries 91
Mean 233.8
Std Dev 0

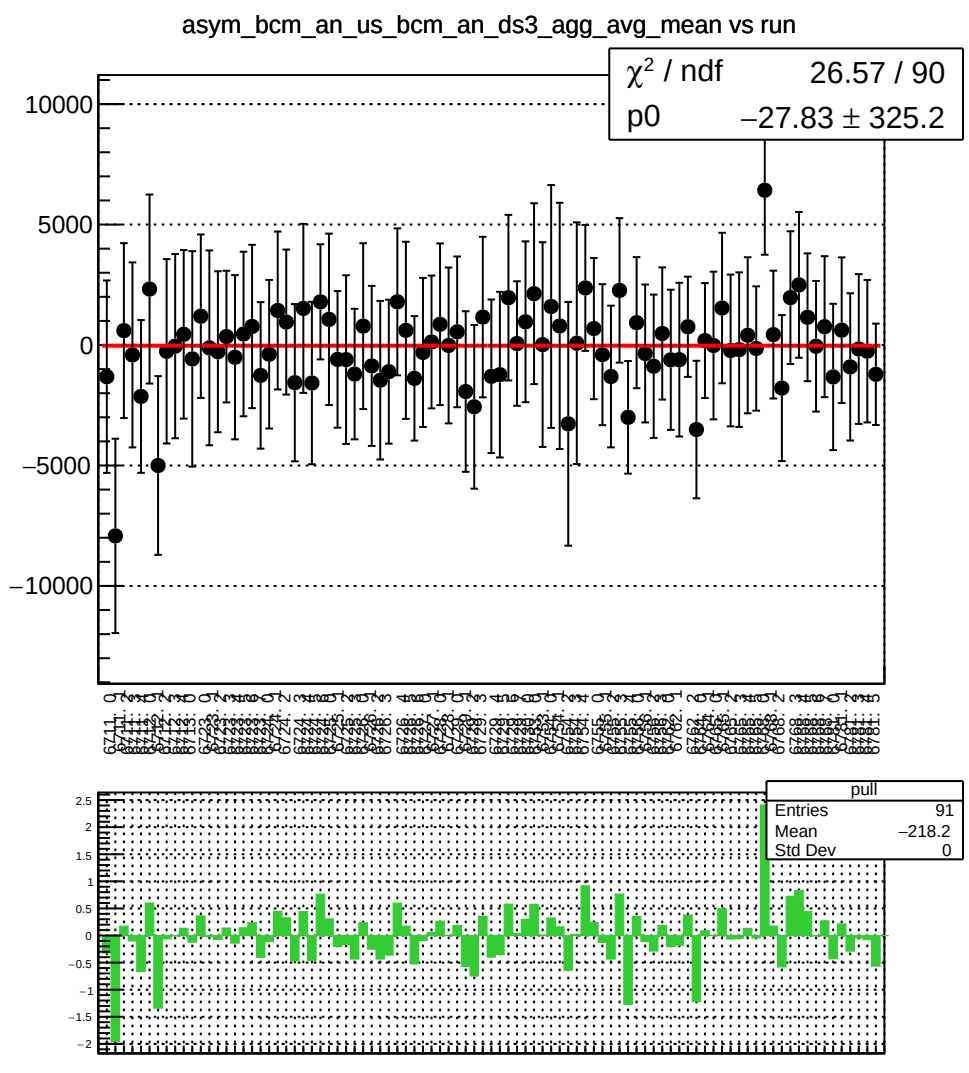

pull1D
Entries 91
Mean 0.008519
Std Dev 1.006

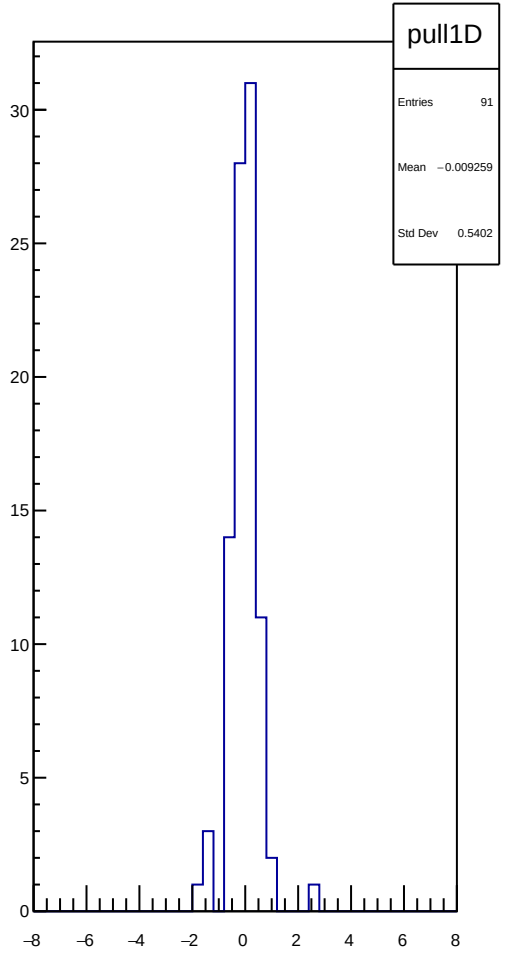

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1493 / 90
p0 21.2 ± 0.01579
24.5
24
23.5
23
22.5
22
21.5
21
20.5
20

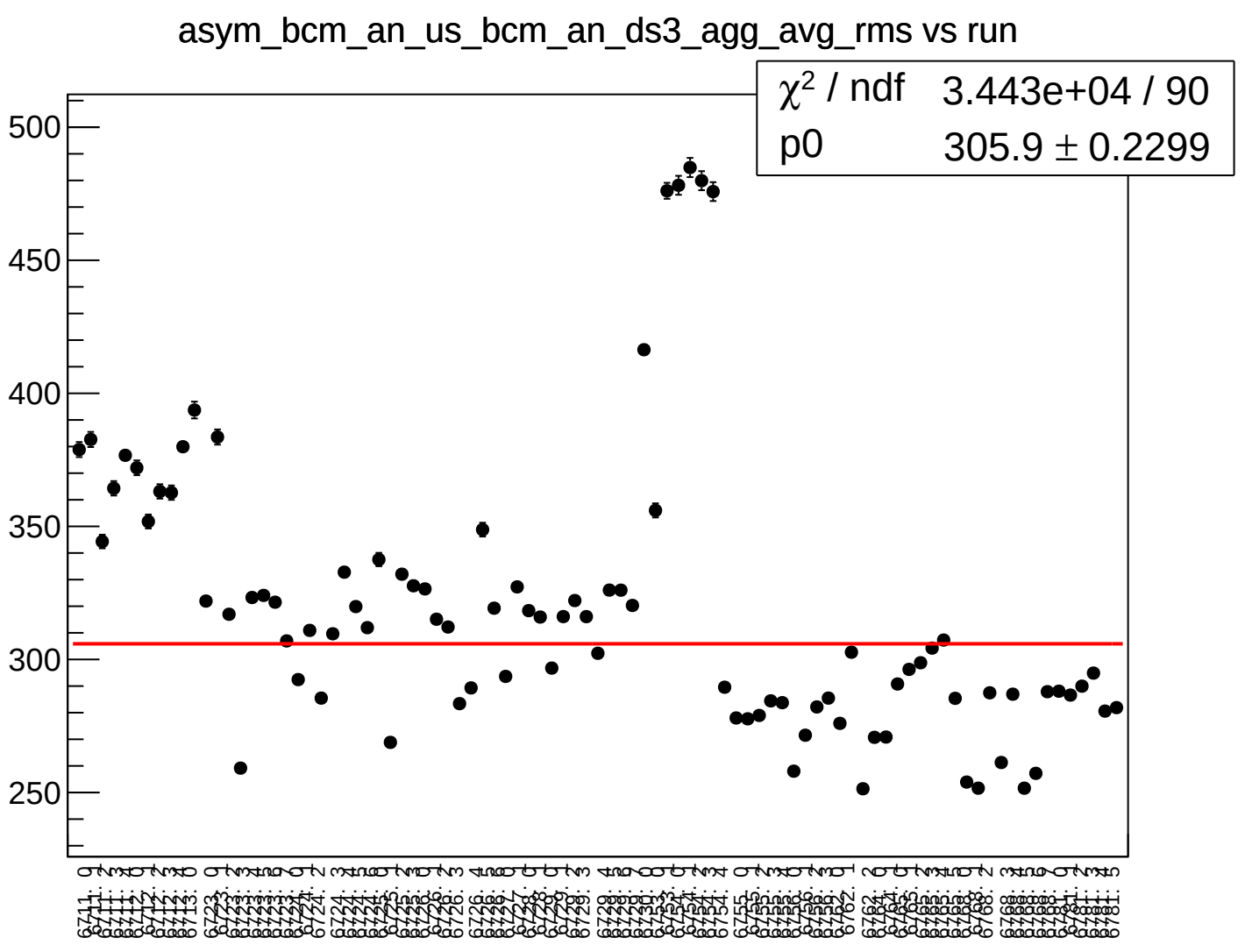

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 70.94 / 90
p0 13.1 ± 11.9
pull
Entries 91
Mean −10.83
Std Dev 0

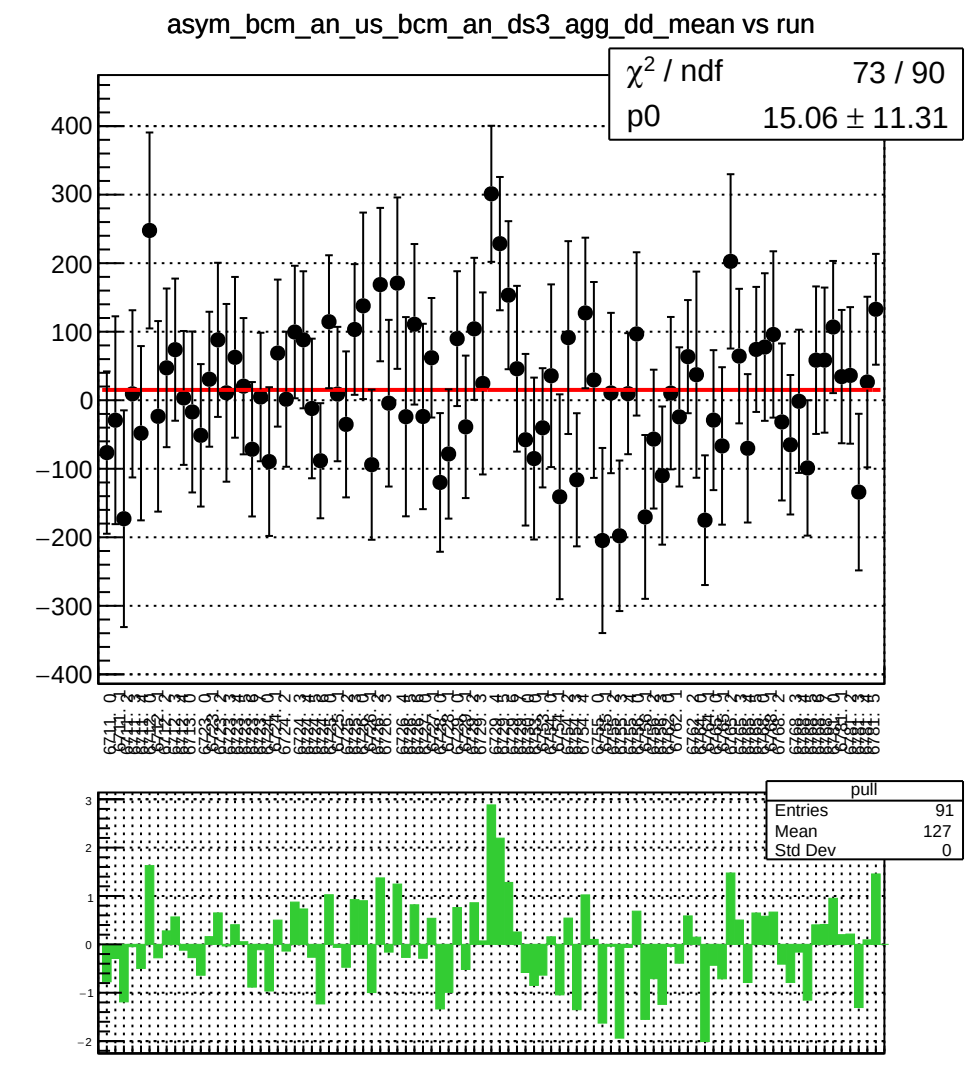

pull1D
Entries 91
Mean −0.01035
Std Dev 0.8829

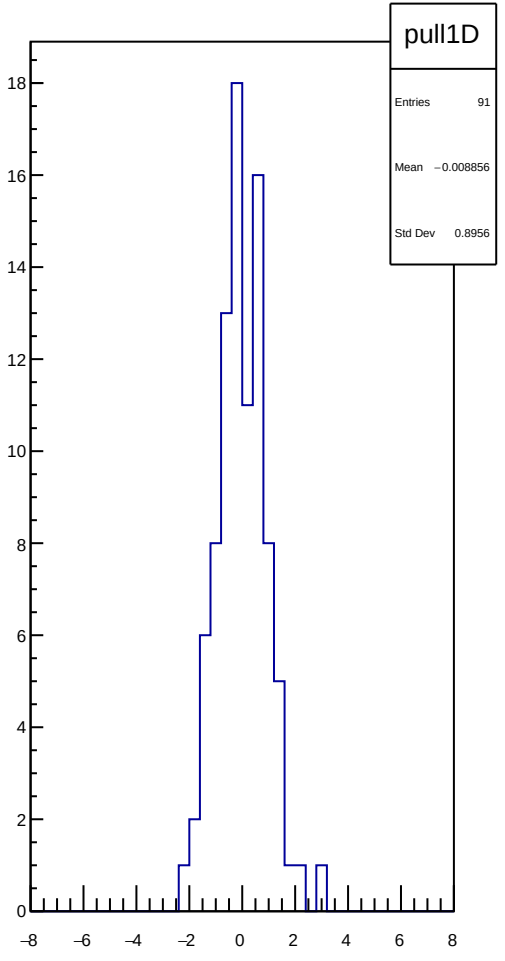

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.89e+04 / 90
p0 11.21 ± 0.008416
16
15
14
13
12
11
10

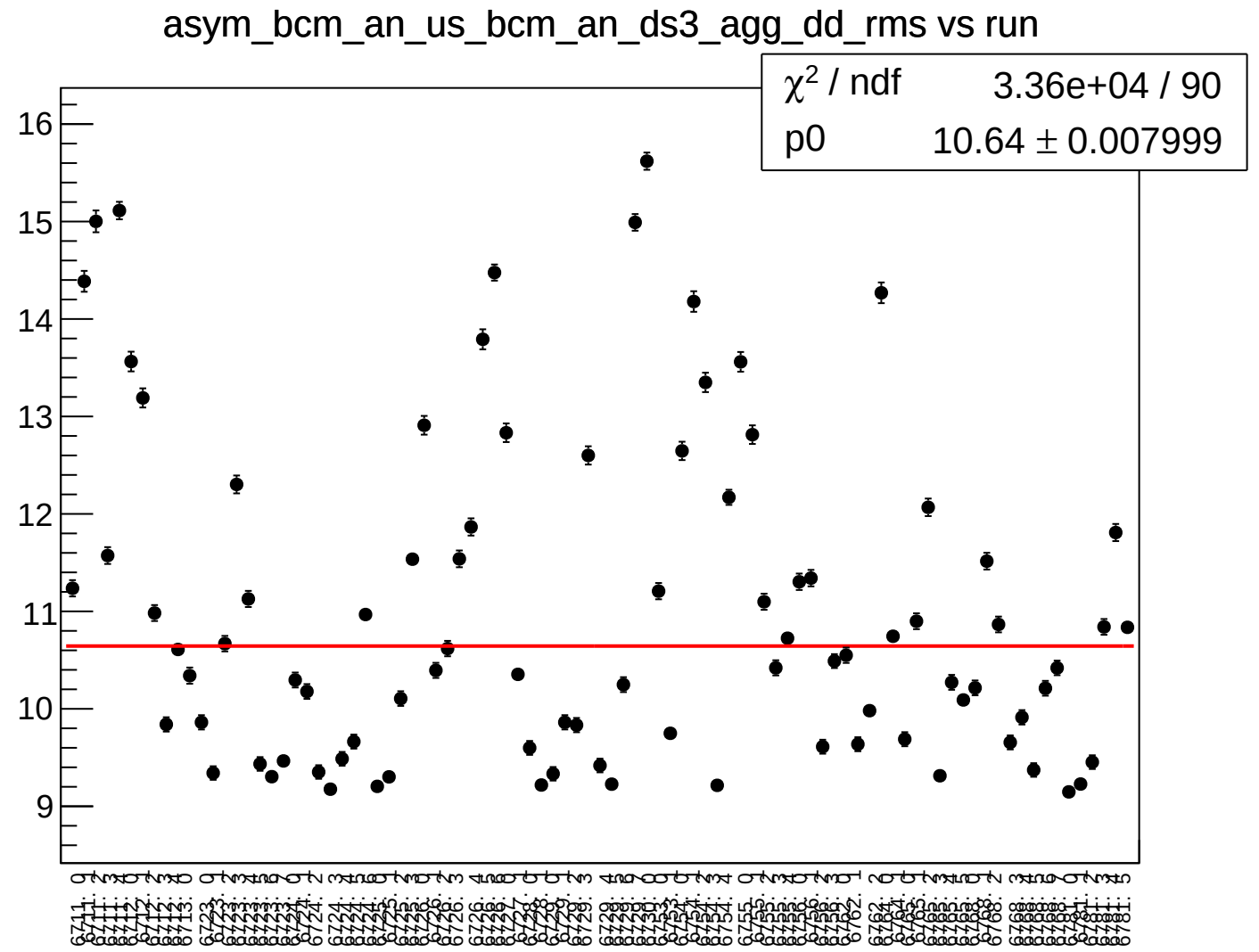

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 26.57 / 90
p0 −27.83 ± 325.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −218.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

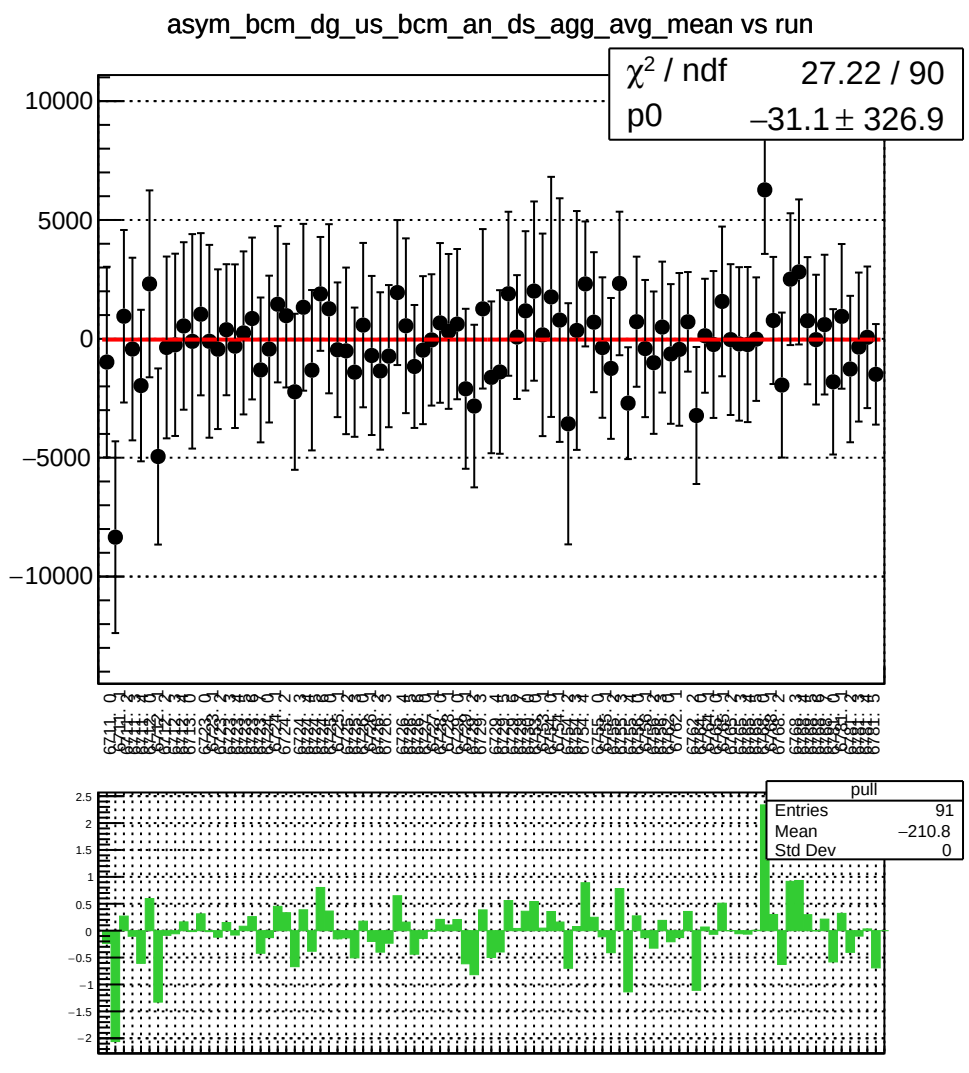

pull1D
Entries 91
Mean −0.009259
Std Dev 0.5402
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

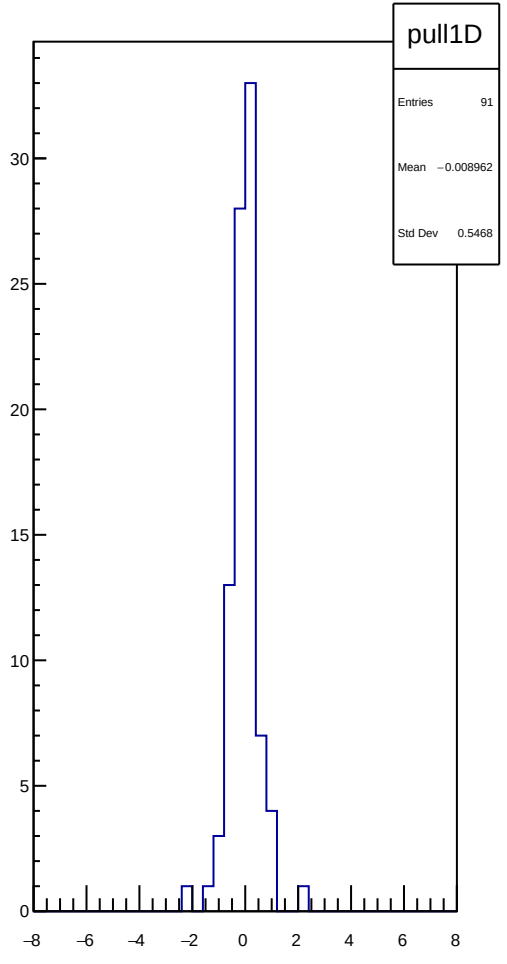

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 3.443e+04 / 90
p0 305.9 ± 0.2299
500
450
400
350
300
250

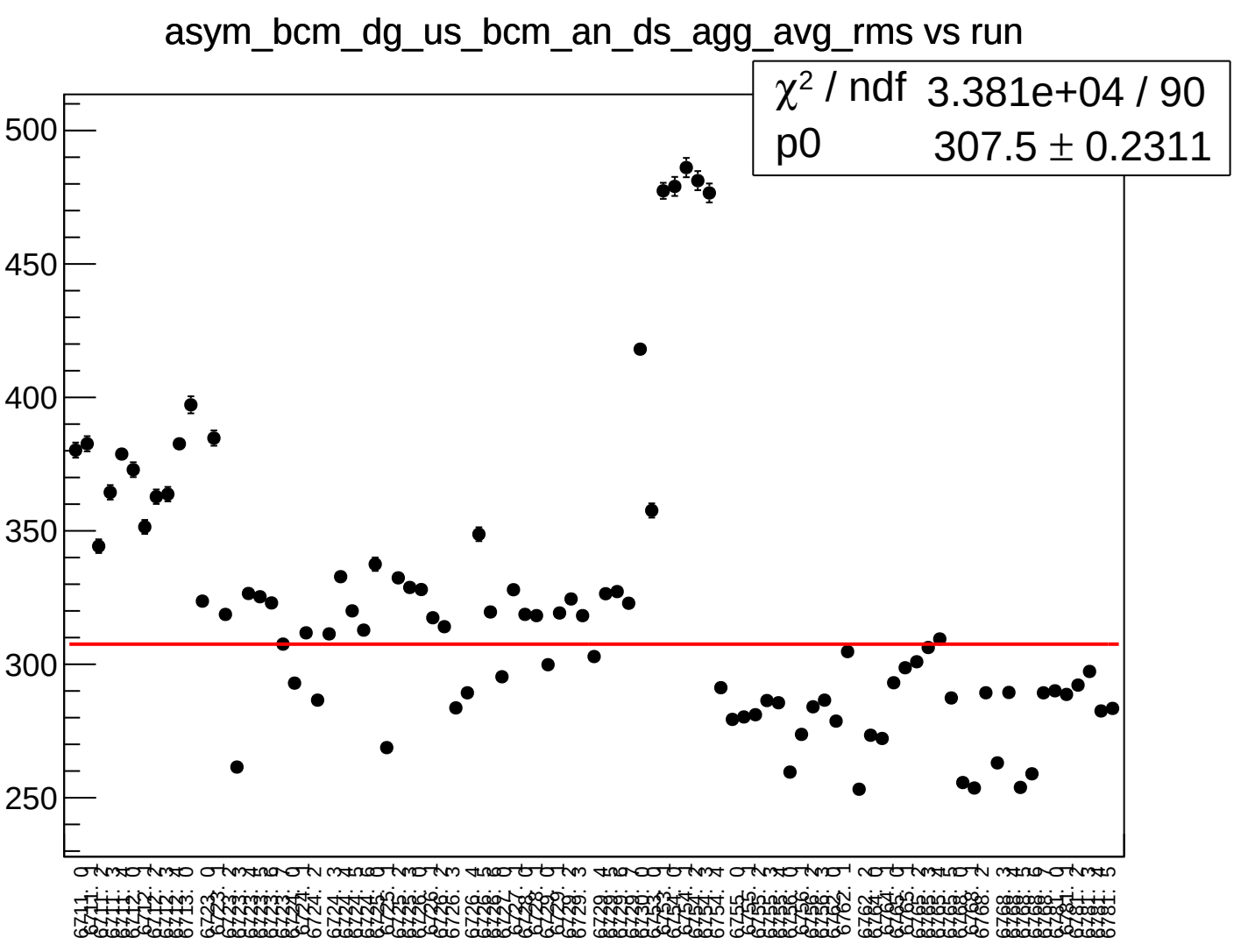

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 73 / 90
p0 15.06 ± 11.31
pull
Entries 91
Mean 127
Std Dev 0

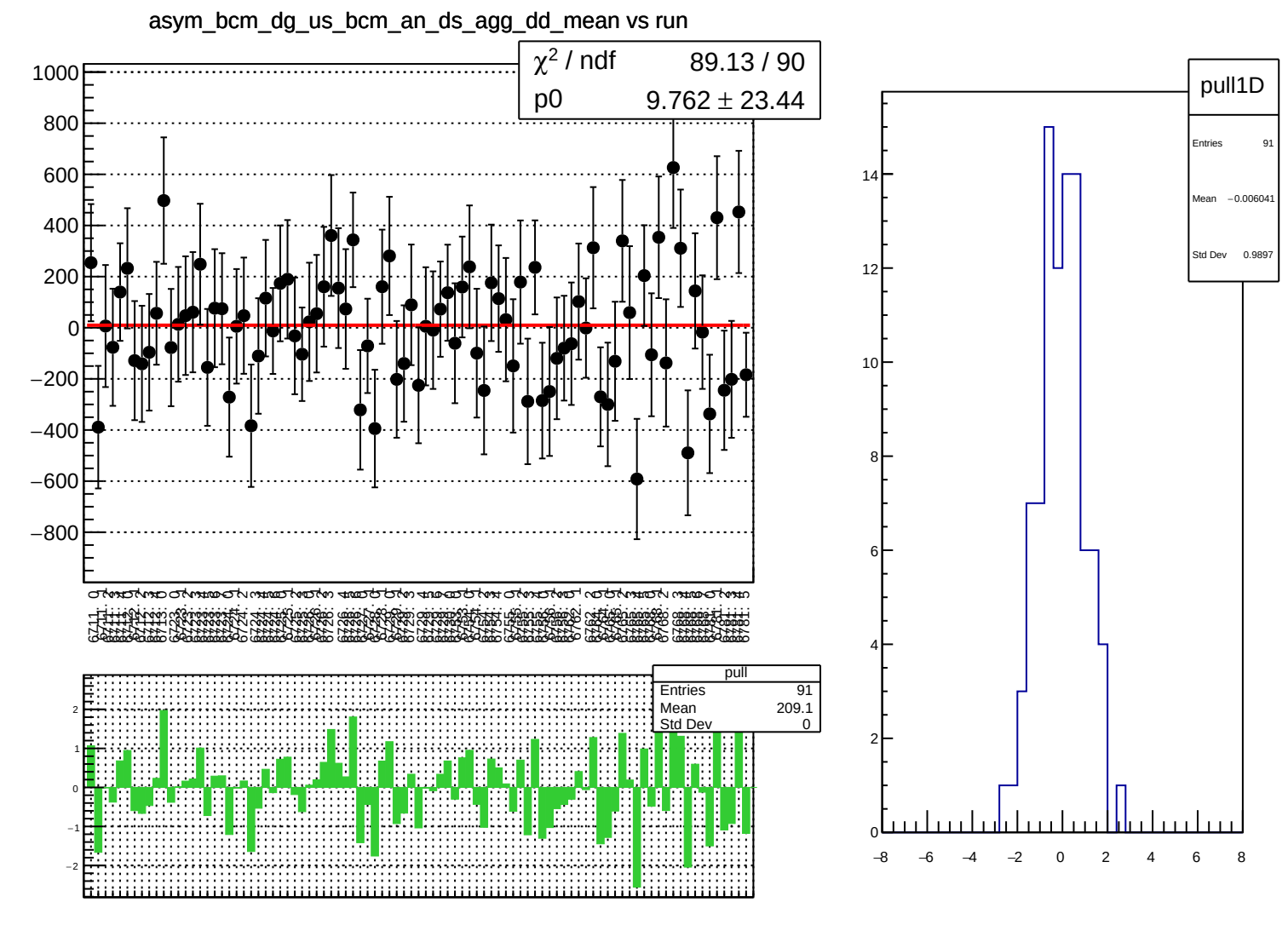

pull1D
Entries 91
Mean −0.008856
Std Dev 0.8956

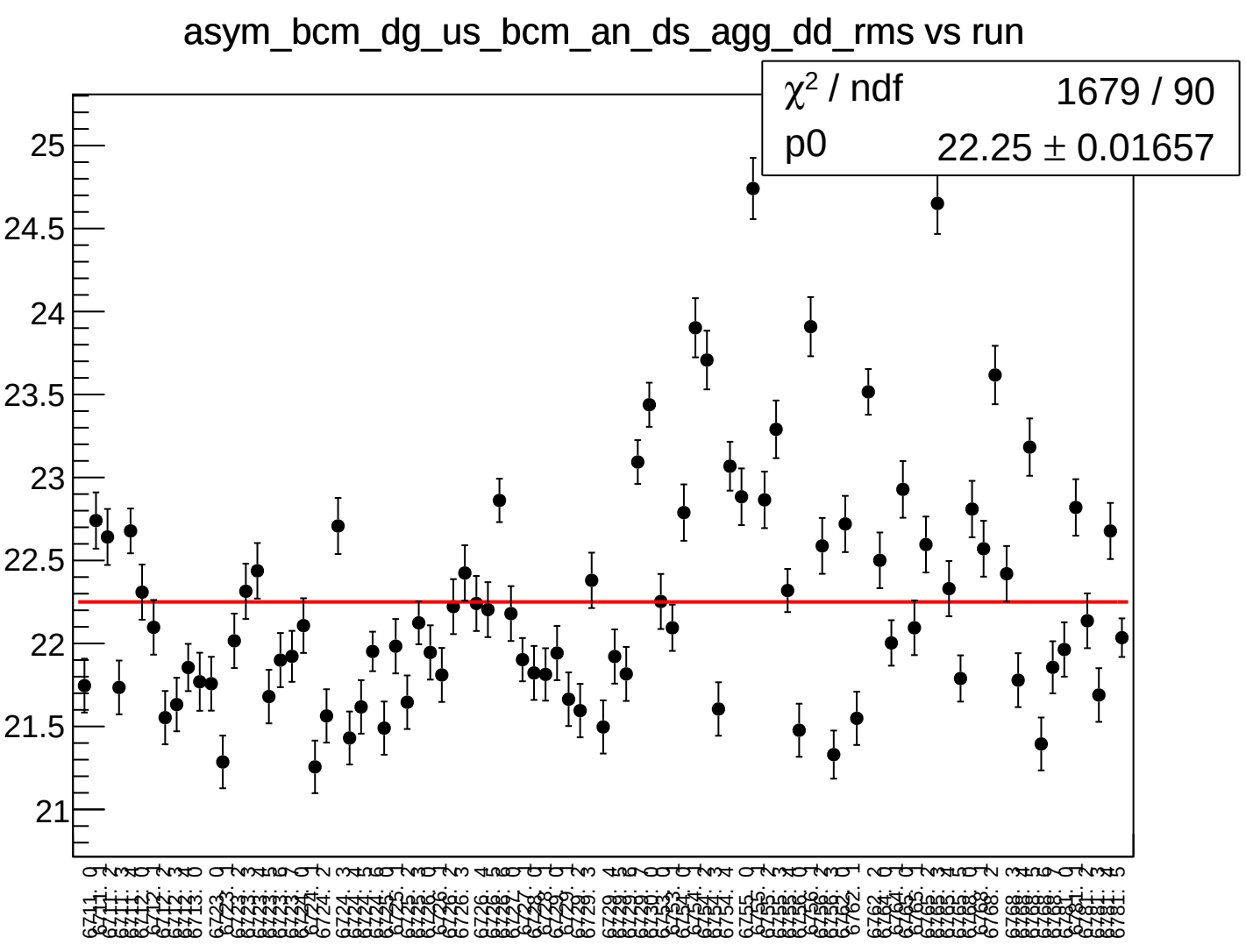

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ^2 / ndf 3.36e+04 / 90
p0 10.64 ± 0.007999
16
15
14
13
12
11
10
9

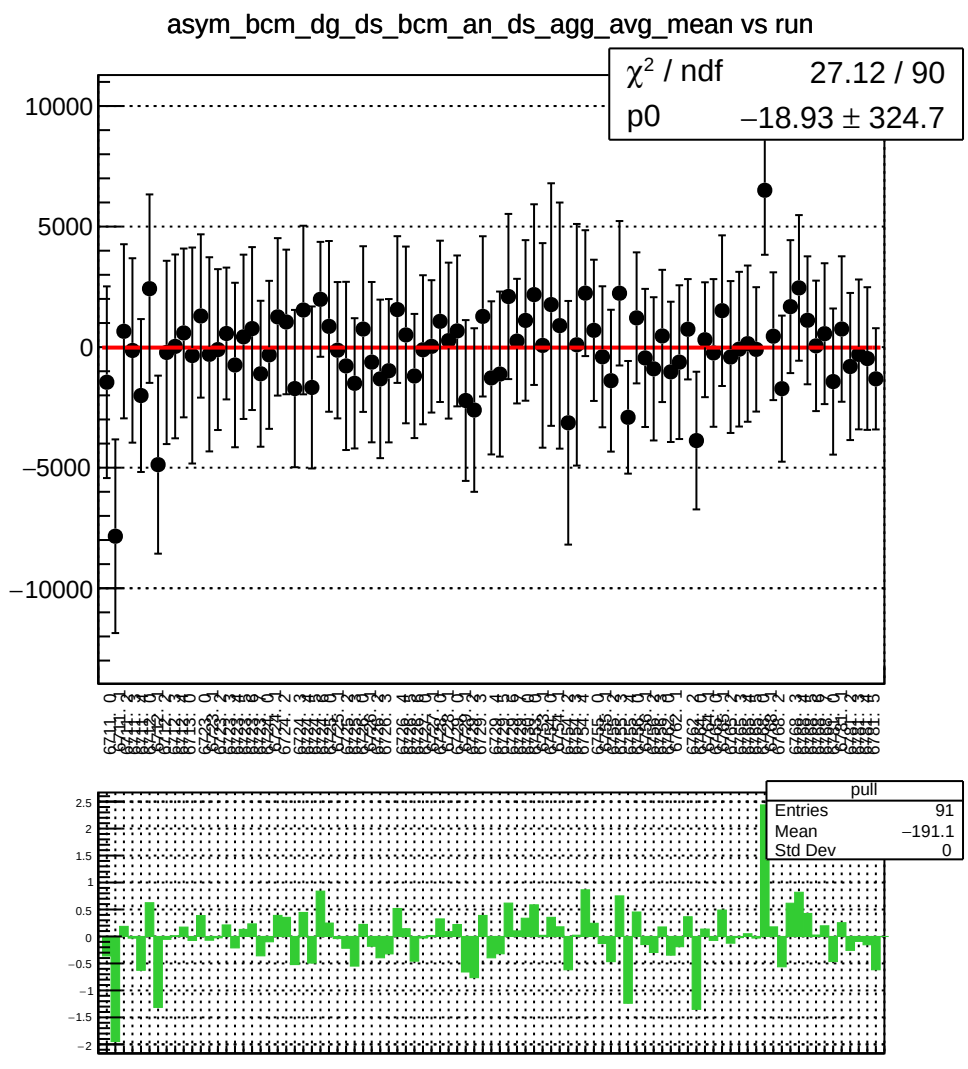

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 27.22 / 90
p0 −31.1 ± 326.9
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −210.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

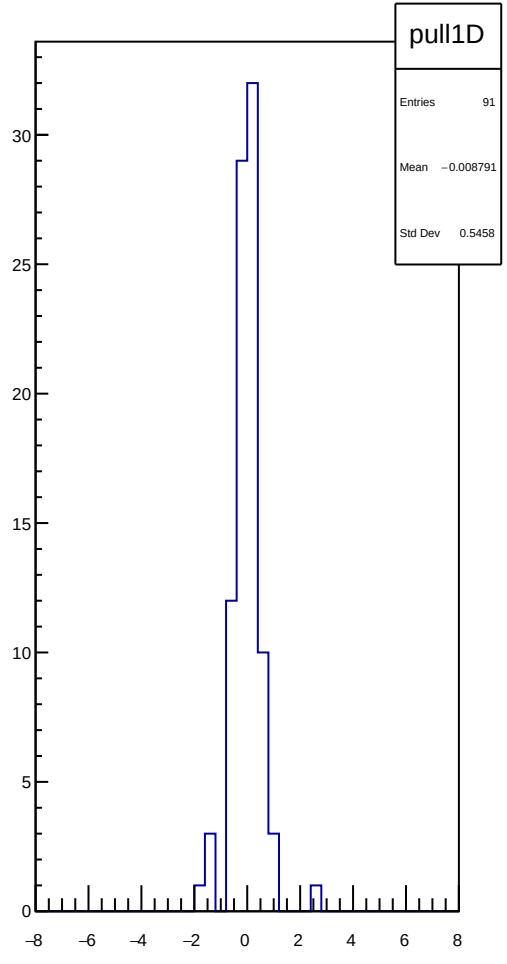

pull1D
Entries 91
Mean −0.008962
Std Dev 0.5468
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.381e+04 / 90
p0 307.5 ± 0.2311
500
450
400
350
300
250


asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 89.13 / 90
p0 9.762 ± 23.44
pull
Entries 91
Mean 209.1
Std Dev 0
pull1D
Entries 91
Mean −0.006041
Std Dev 0.9897


asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1679 / 90
p0 22.25 ± 0.01657
25
24.5
24
23.5
23
22.5
22
21.5
21


asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 27.12 / 90
p0 −18.93 ± 324.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −191.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 91
Mean −0.008791
Std Dev 0.5458
30
25
20
15
10
5
0
−8
−6
−4
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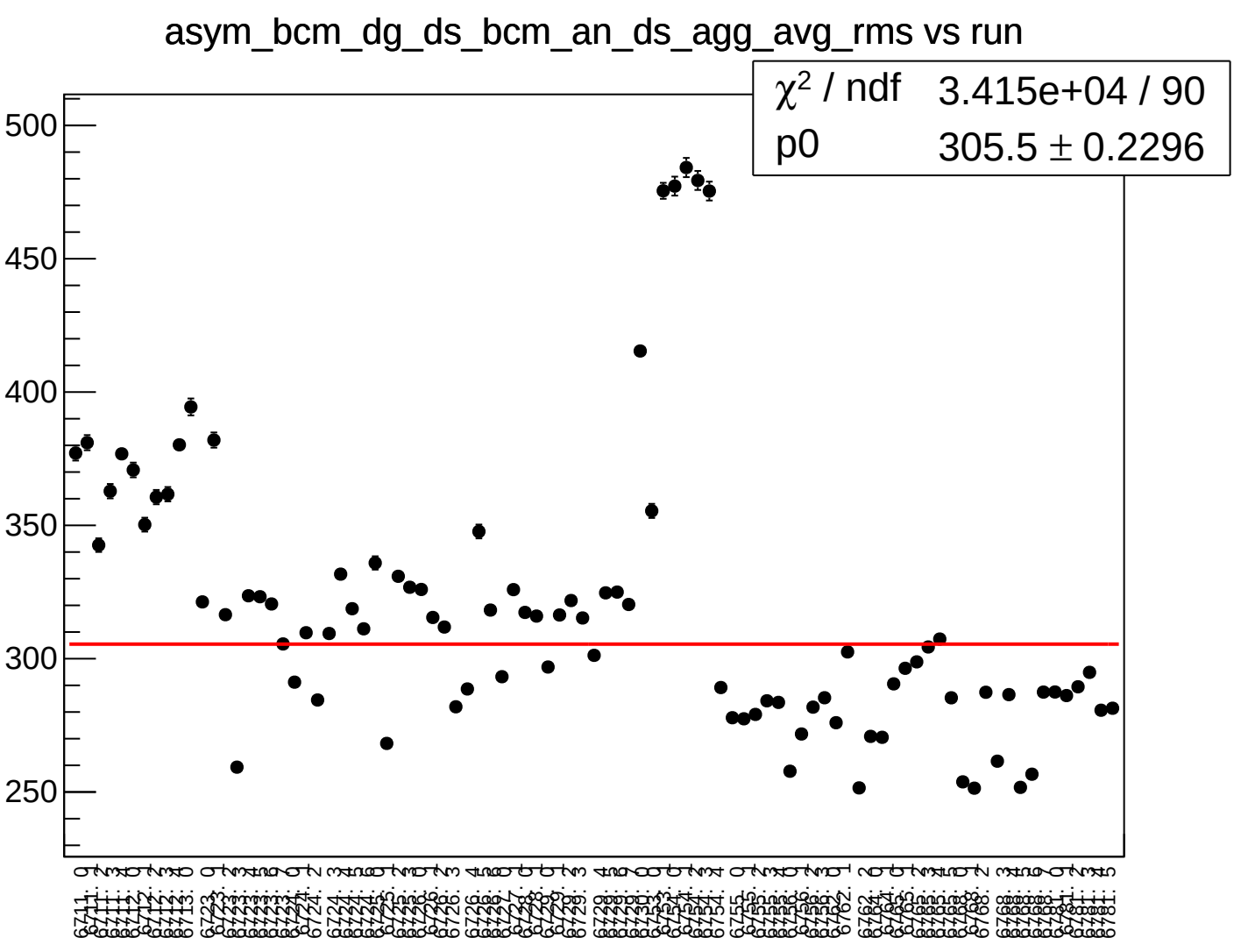
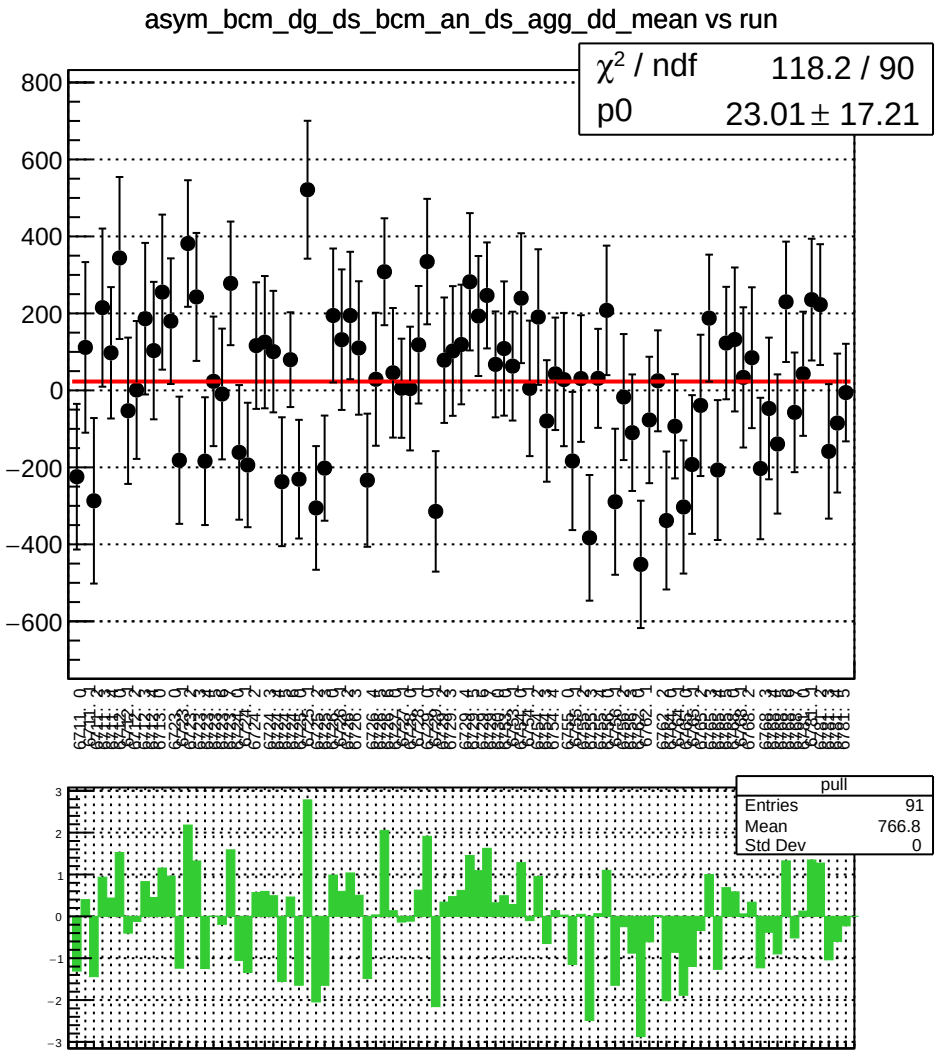
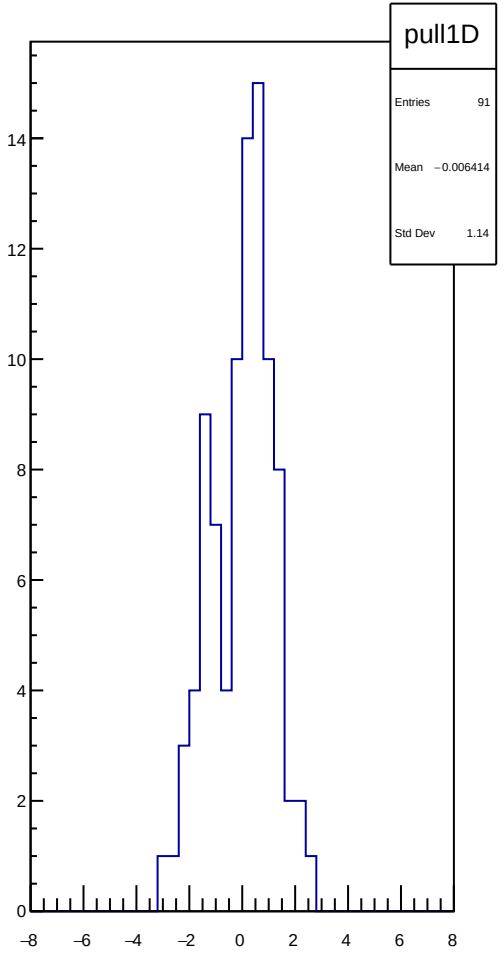
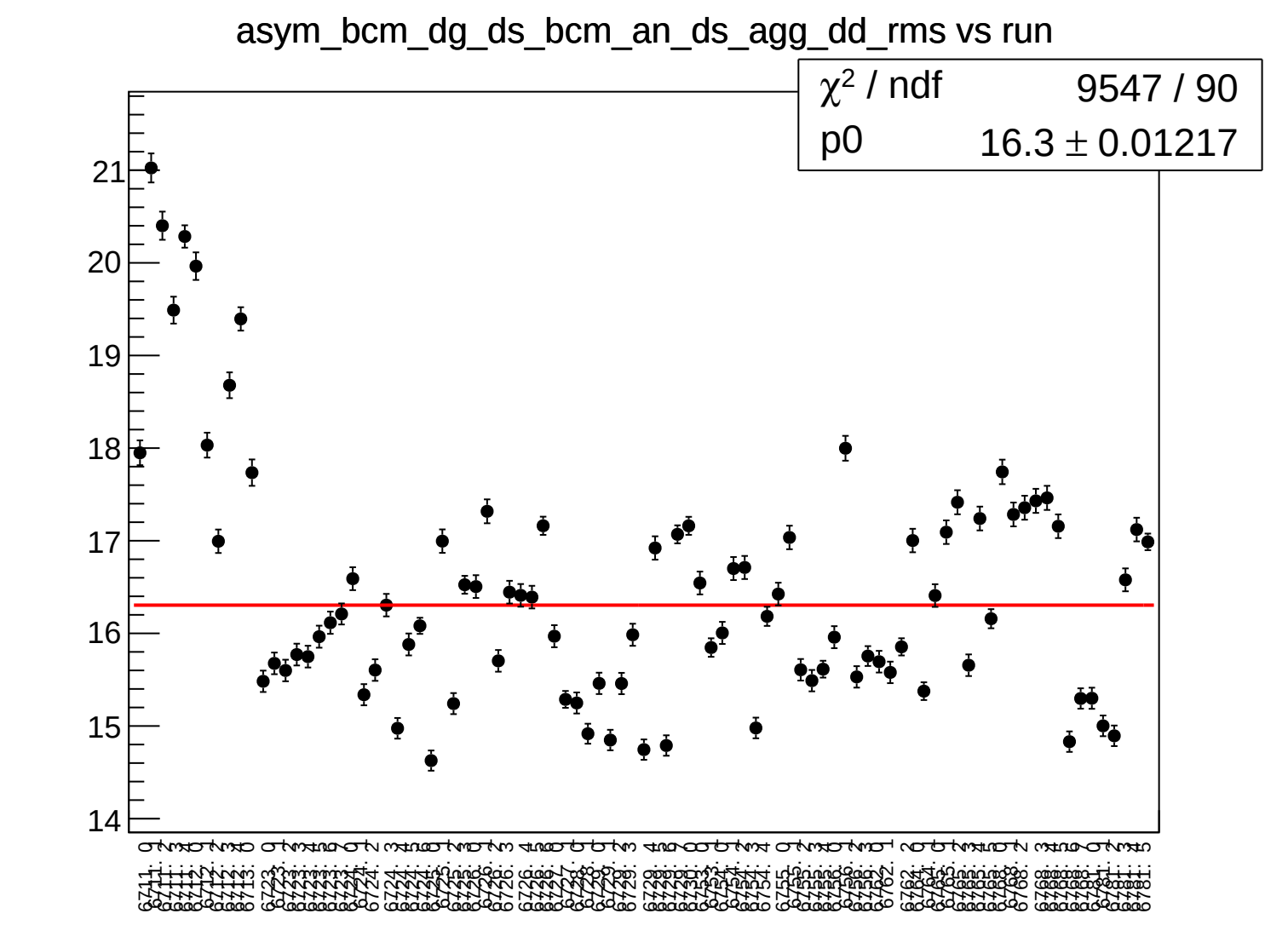
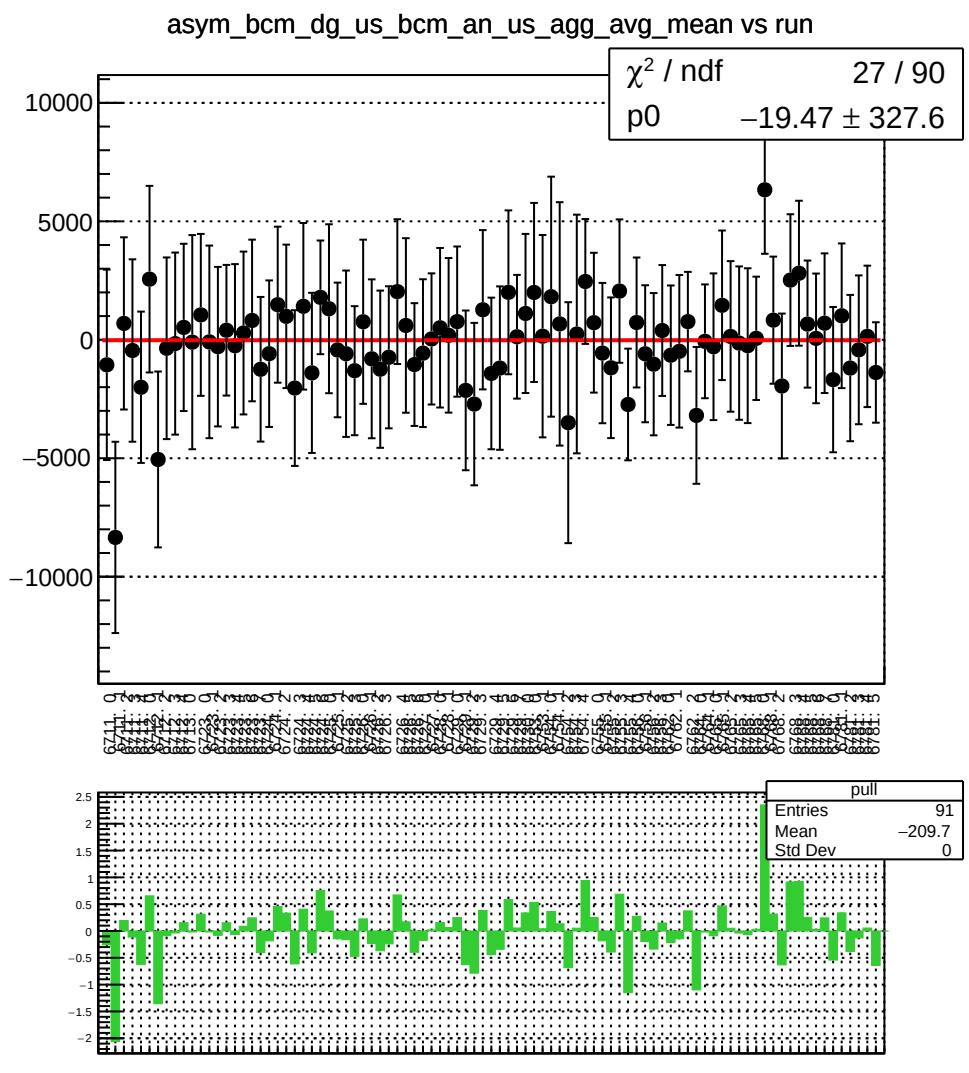
0
2
4
6
8

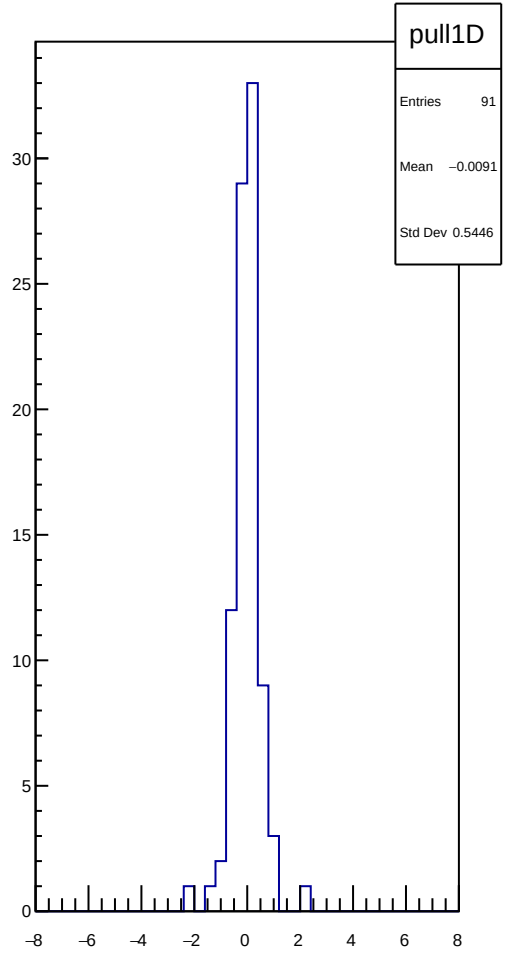

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.415e+04 / 90
p0 305.5 ± 0.2296
500
450
400
350
300
250

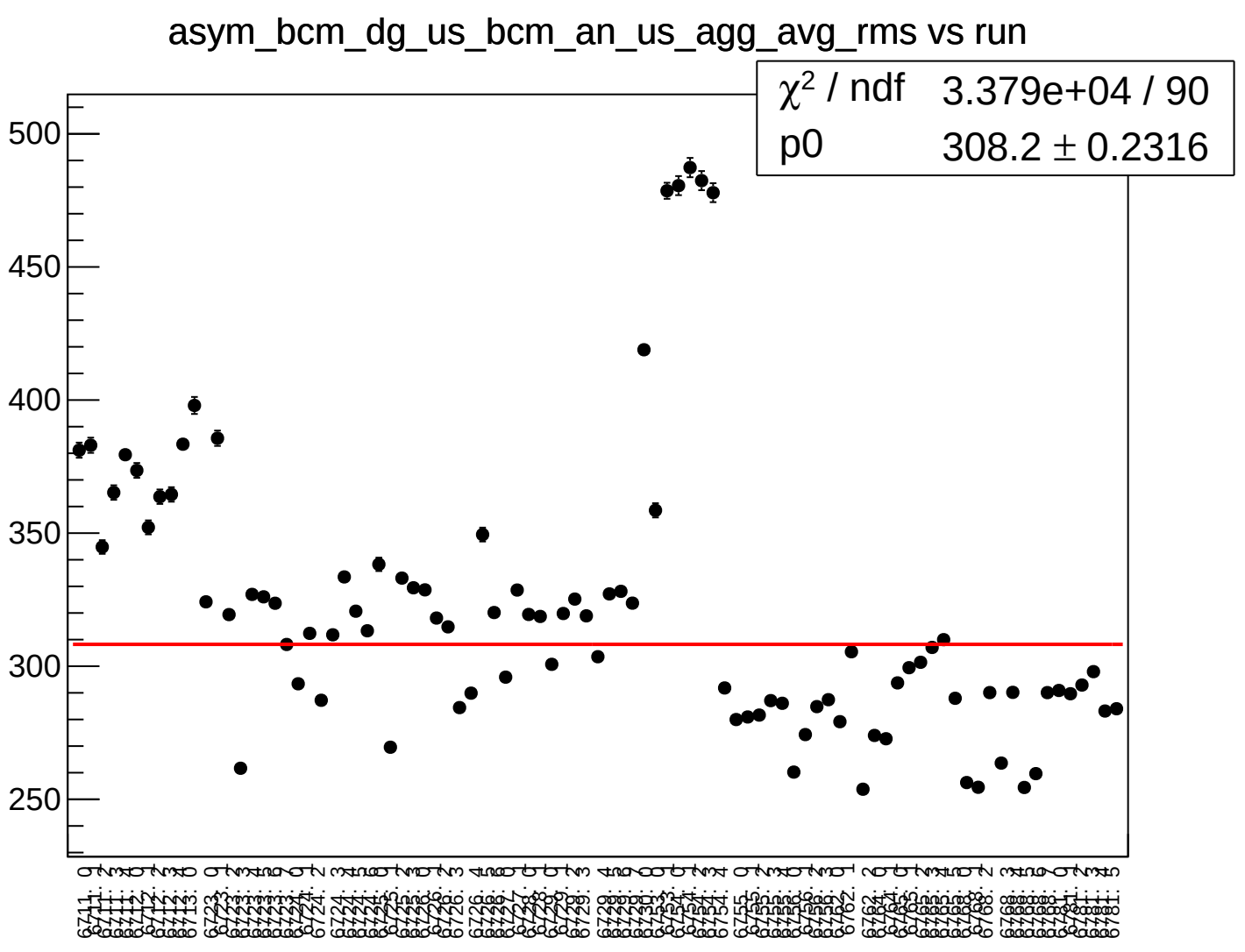

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 118.2 / 90
p0 23.01 ± 17.21
pull
Entries 91
Mean 766.8
Std Dev 0

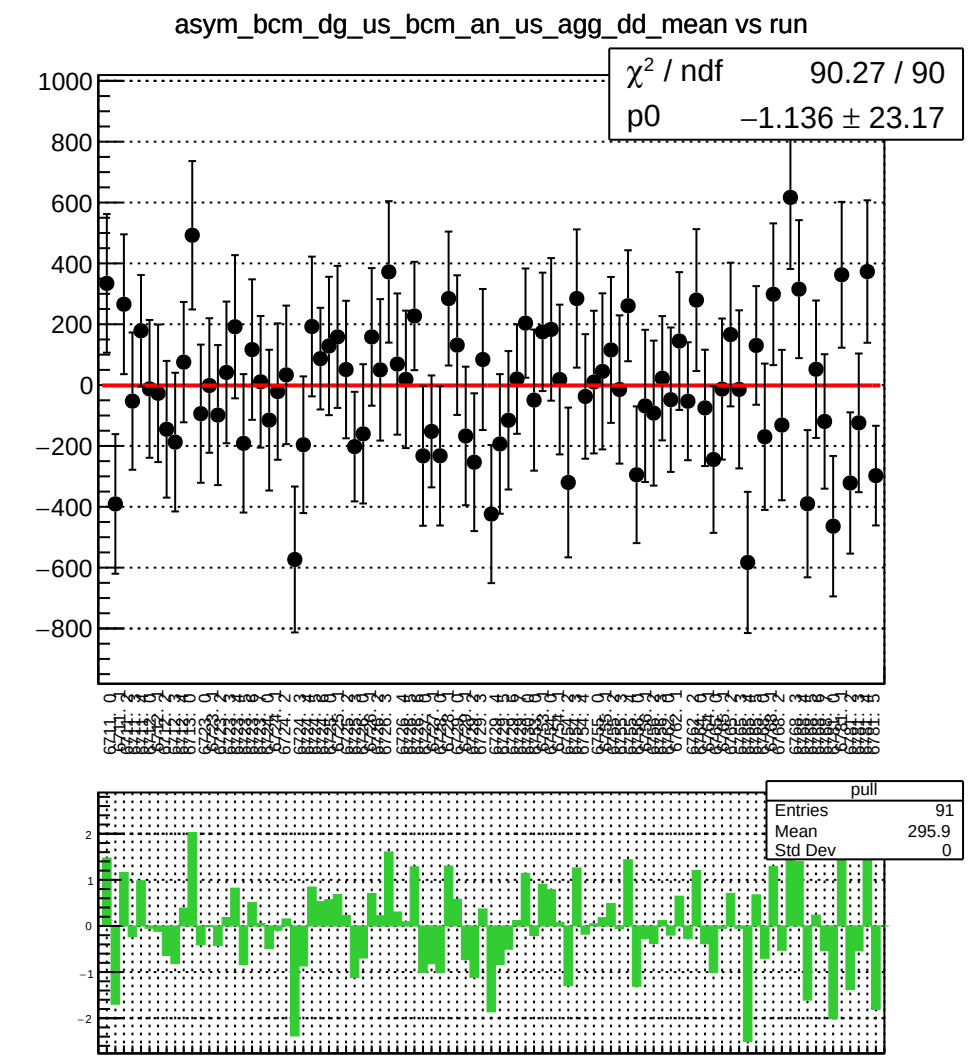

pull1D
Entries 91
Mean −0.006414
Std Dev 1.14

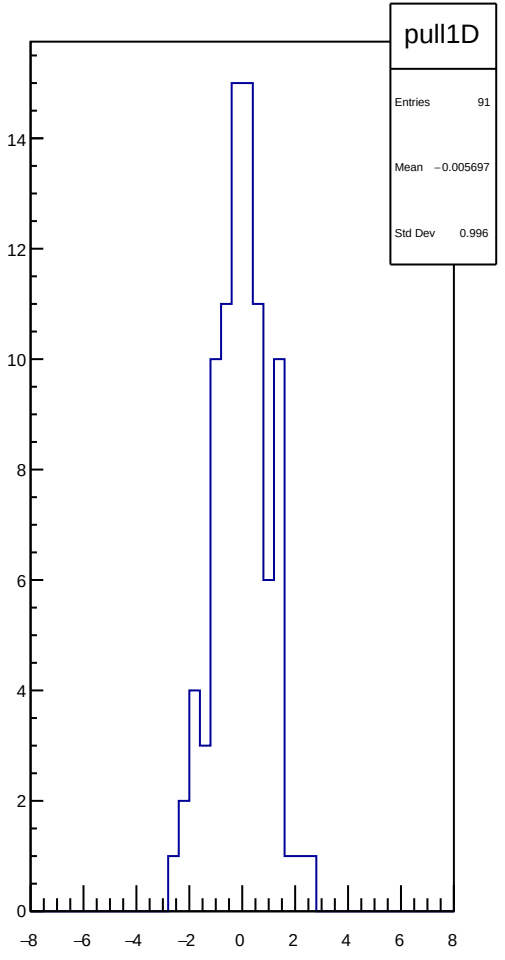

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 9547 / 90
p0 16.3 ± 0.01217
21
20
19
18
17
16
15
14

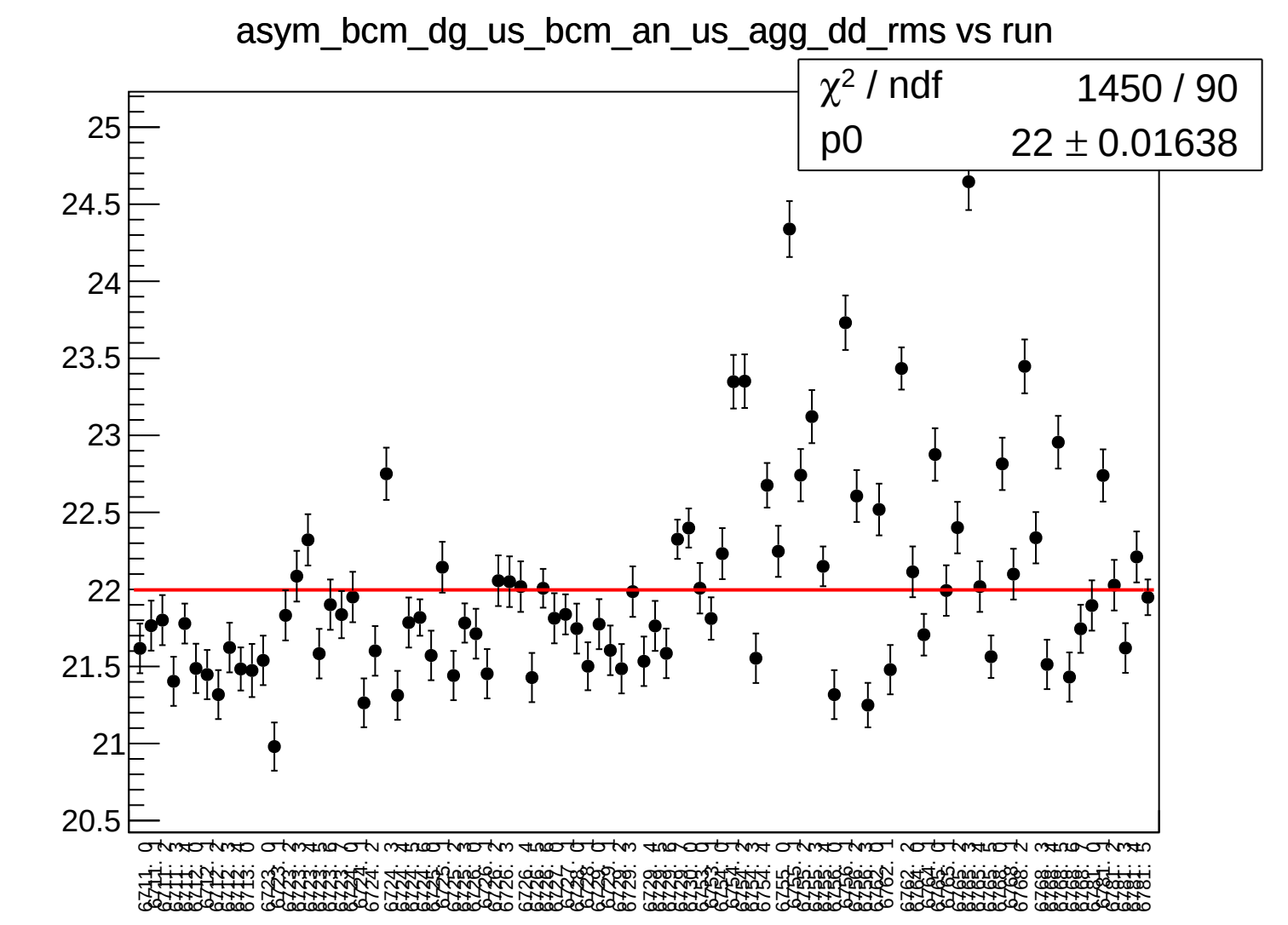

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 27 / 90
p0 −19.47 ± 327.6
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −209.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

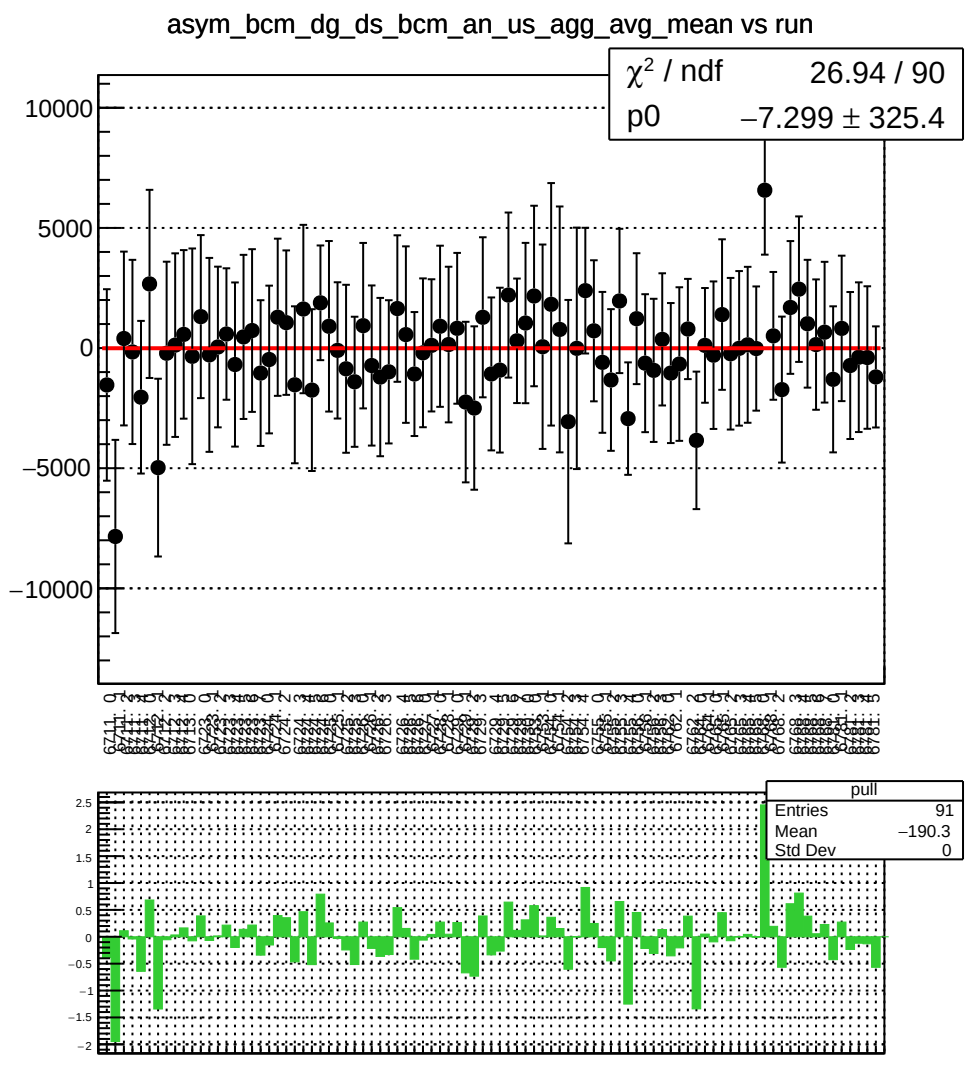

pull1D
Entries 91
Mean −0.0091
Std Dev 0.5446
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

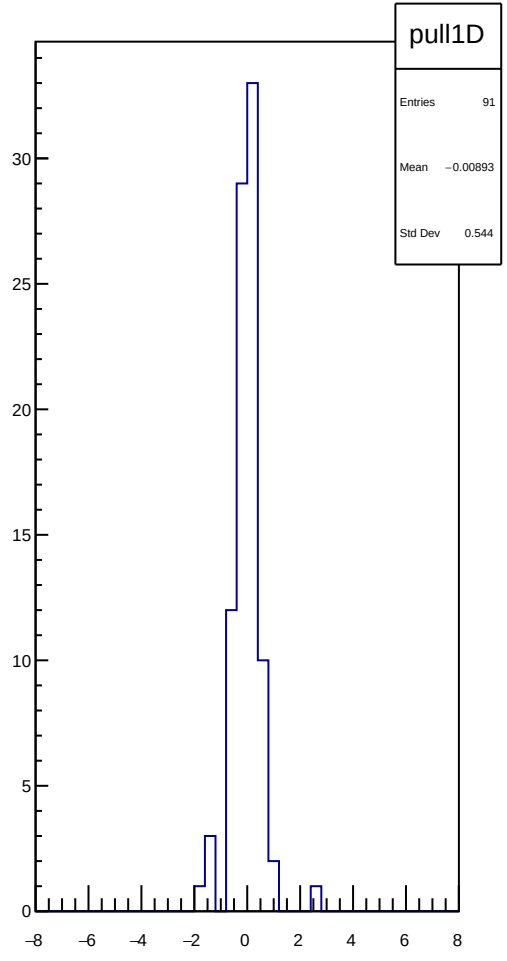

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.379e+04 / 90
p0 308.2 ± 0.2316
500
450
400
350
300
250

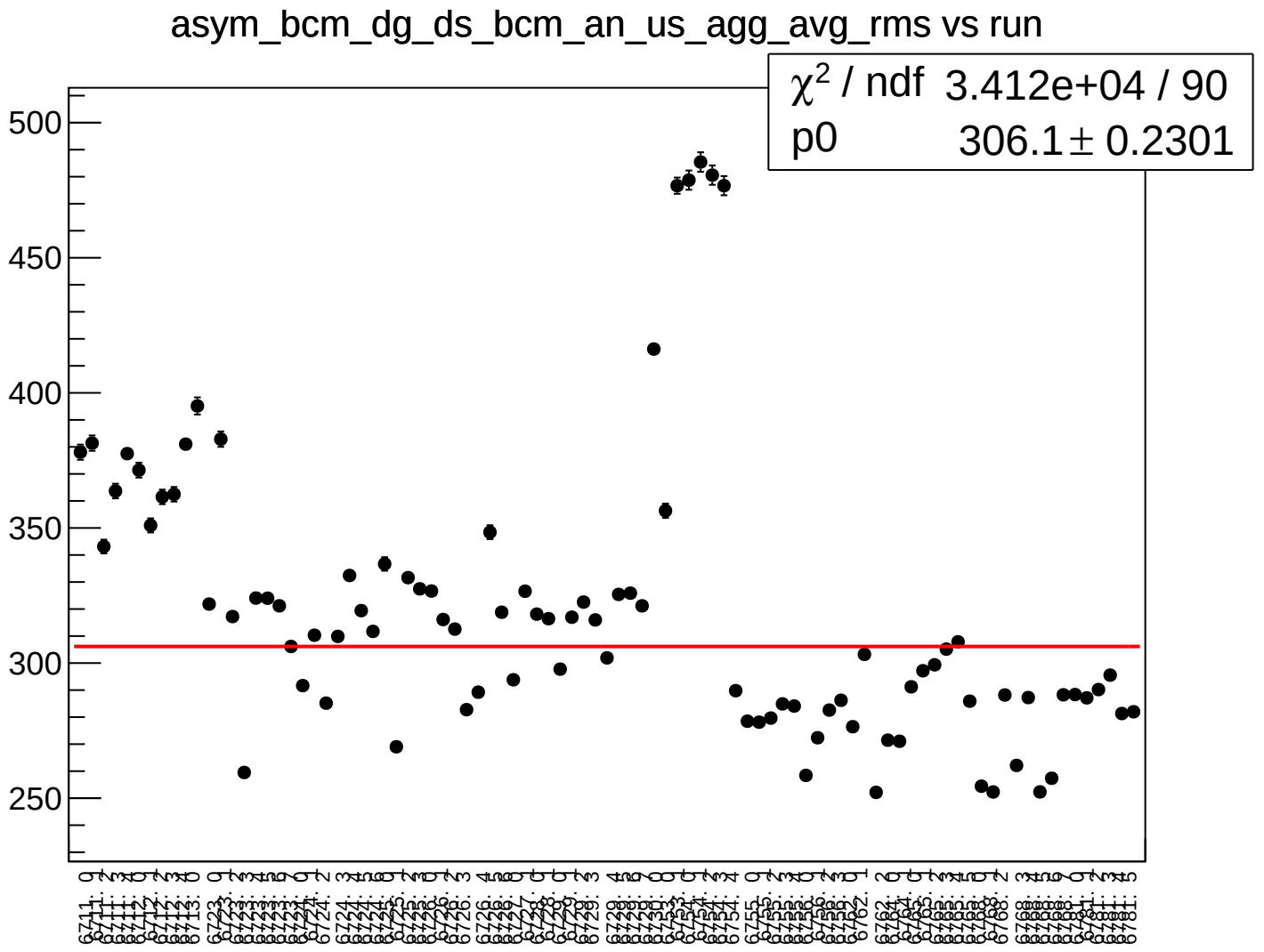

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 90.27 / 90
p0 −1.136 ± 23.17
pull
Entries 91
Mean 295.9
Std Dev 0

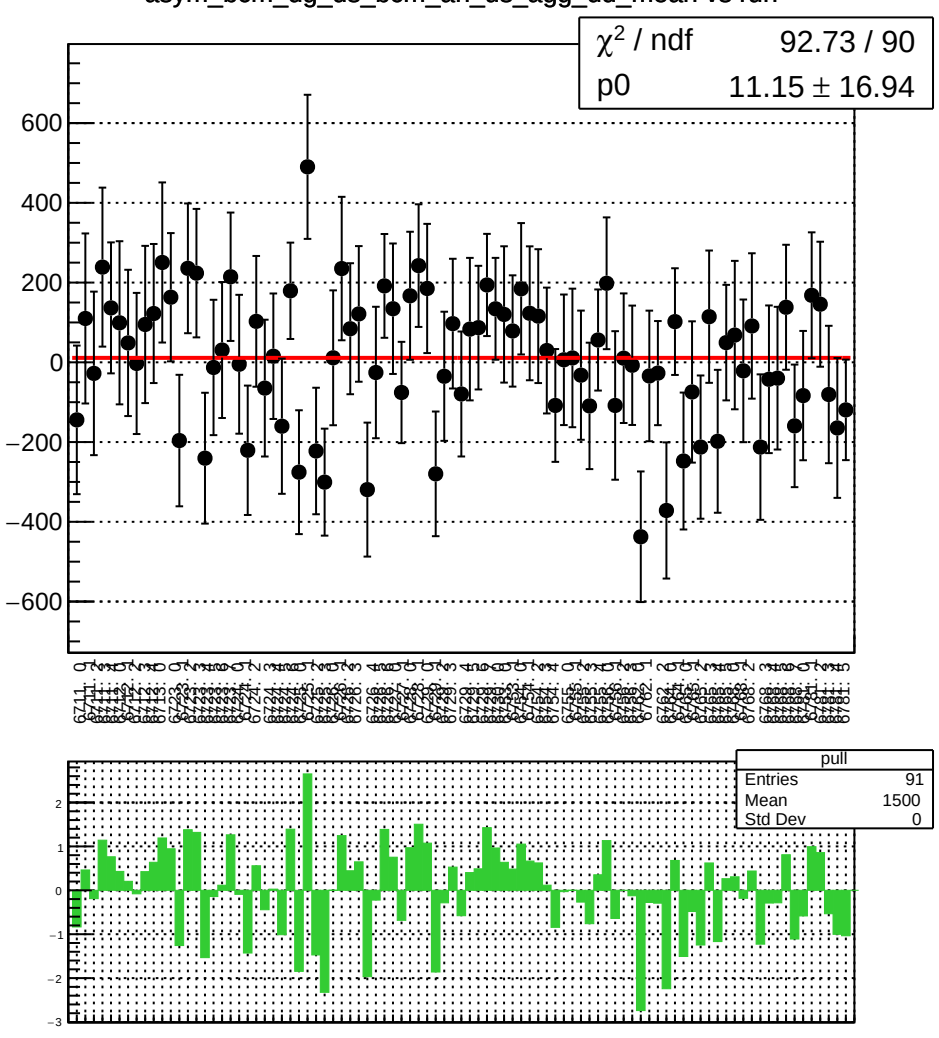

pull1D
Entries 91
Mean −0.005697
Std Dev 0.996

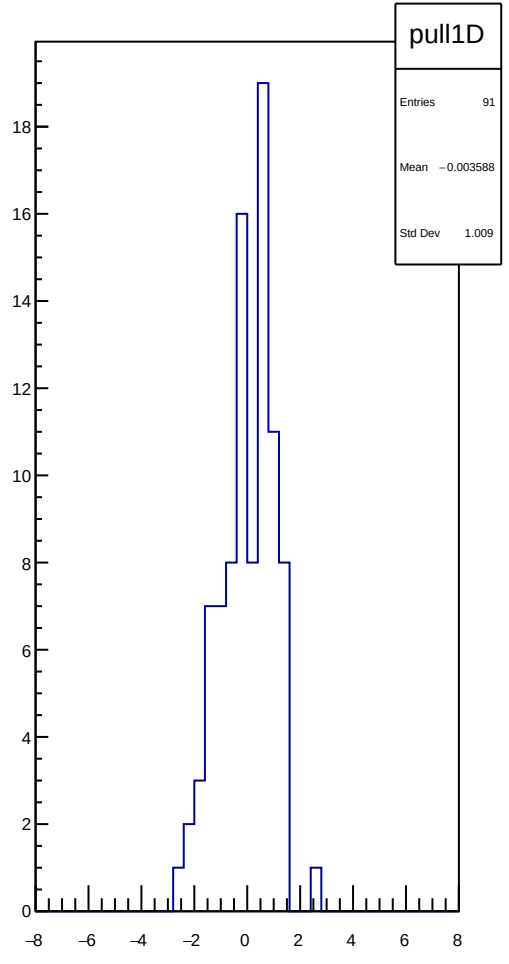

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1450 / 90
p0 22 ± 0.01638
25
24.5
24
23.5
23
22.5
22
21.5
21
20.5

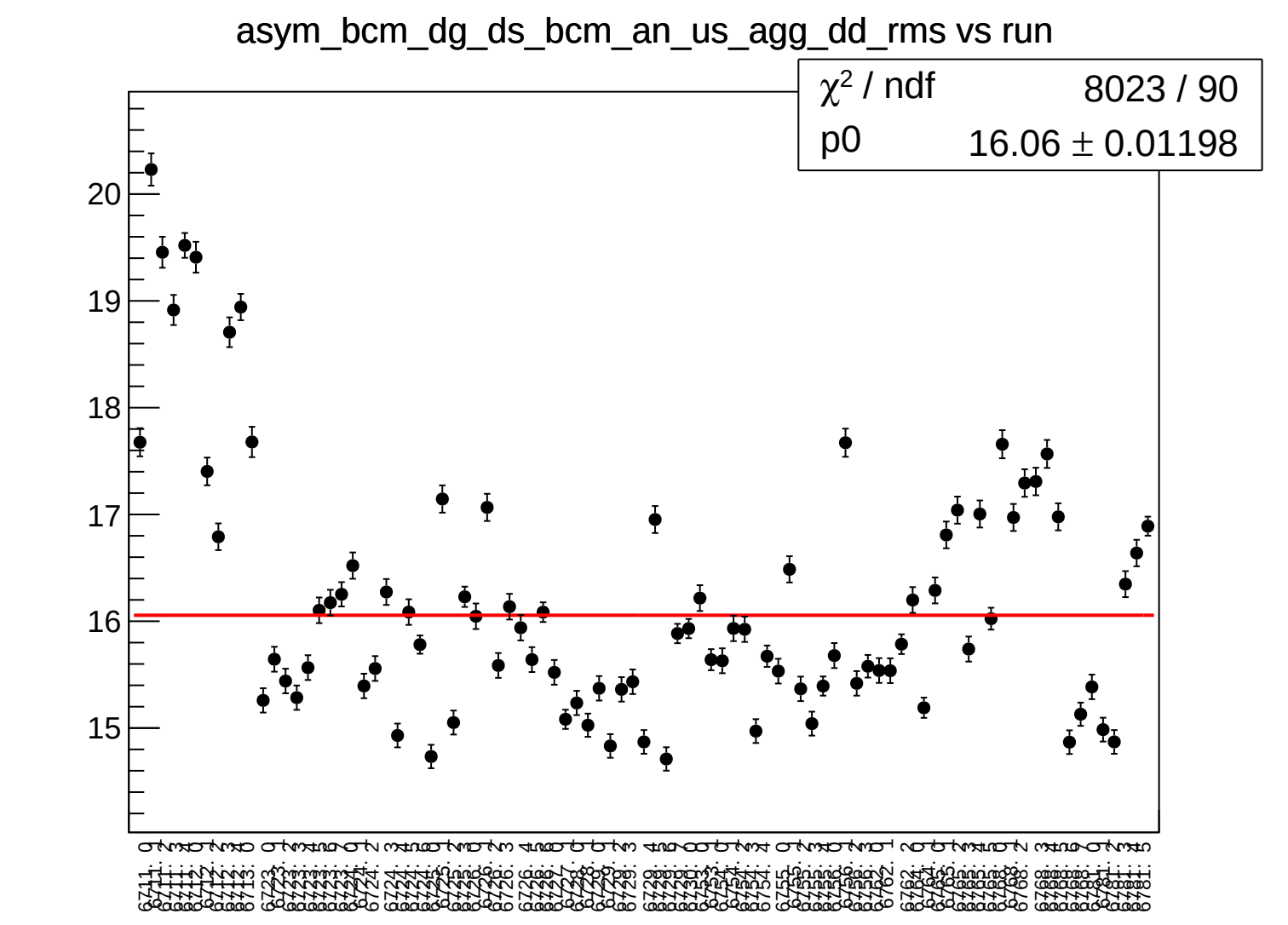

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 26.94 / 90
p0 −7.299 ± 325.4
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −190.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

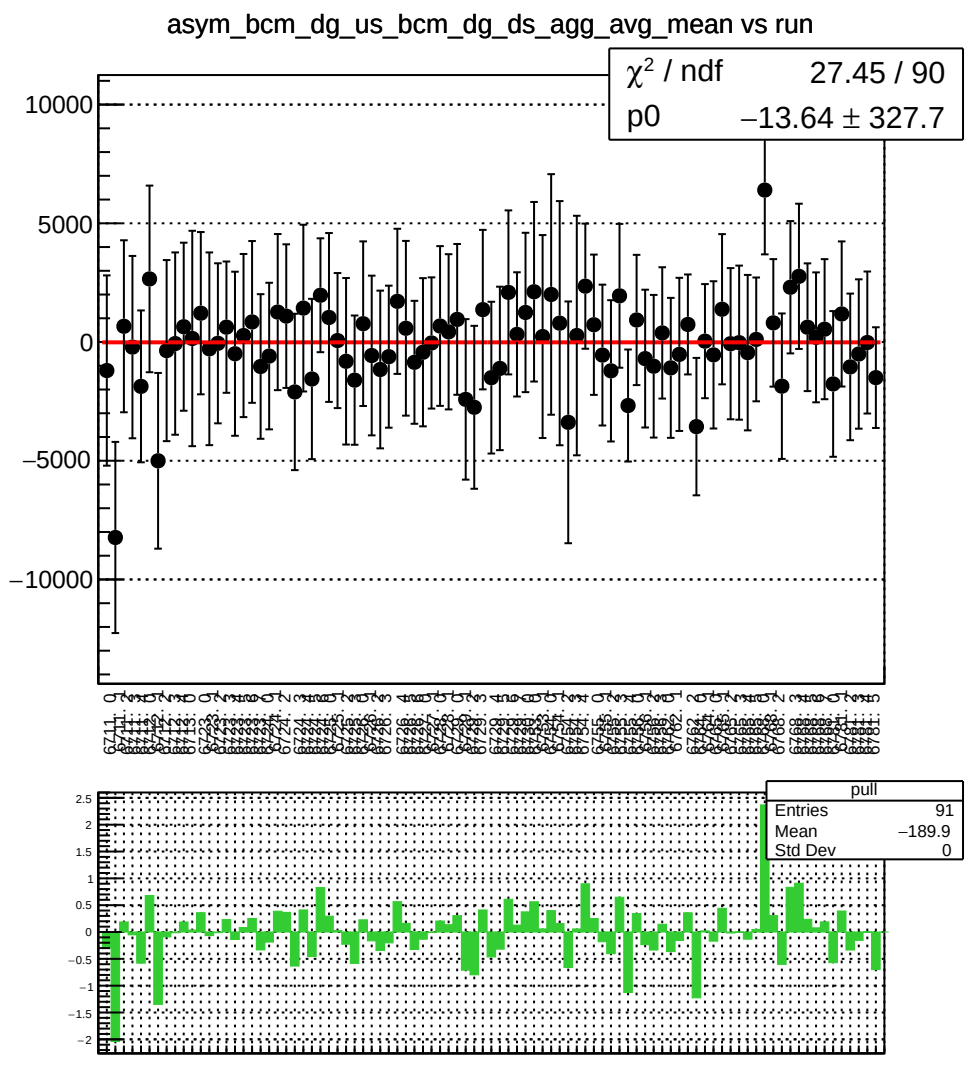

pull1D
Entries 91
Mean −0.00893
Std Dev 0.544
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

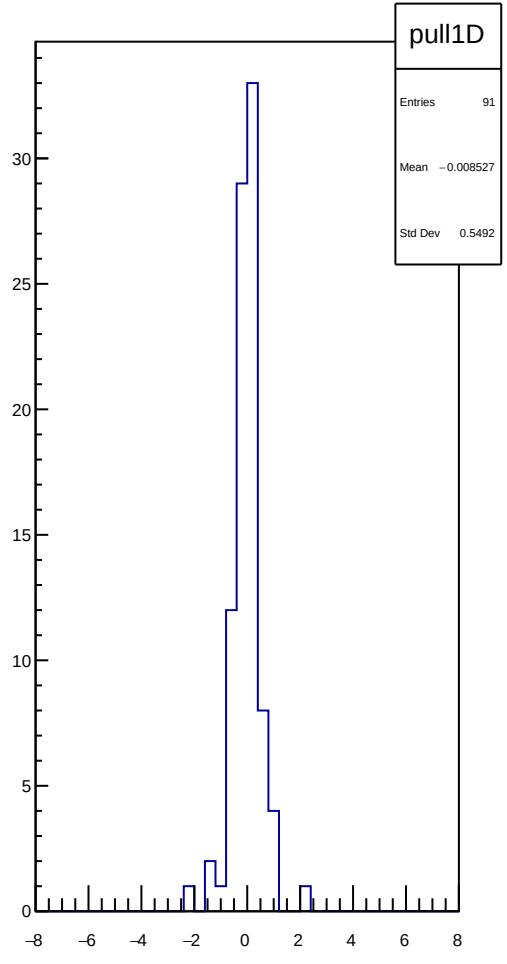

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.412e+04 / 90
p0 306.1 ± 0.2301
500
450
400
350
300
250

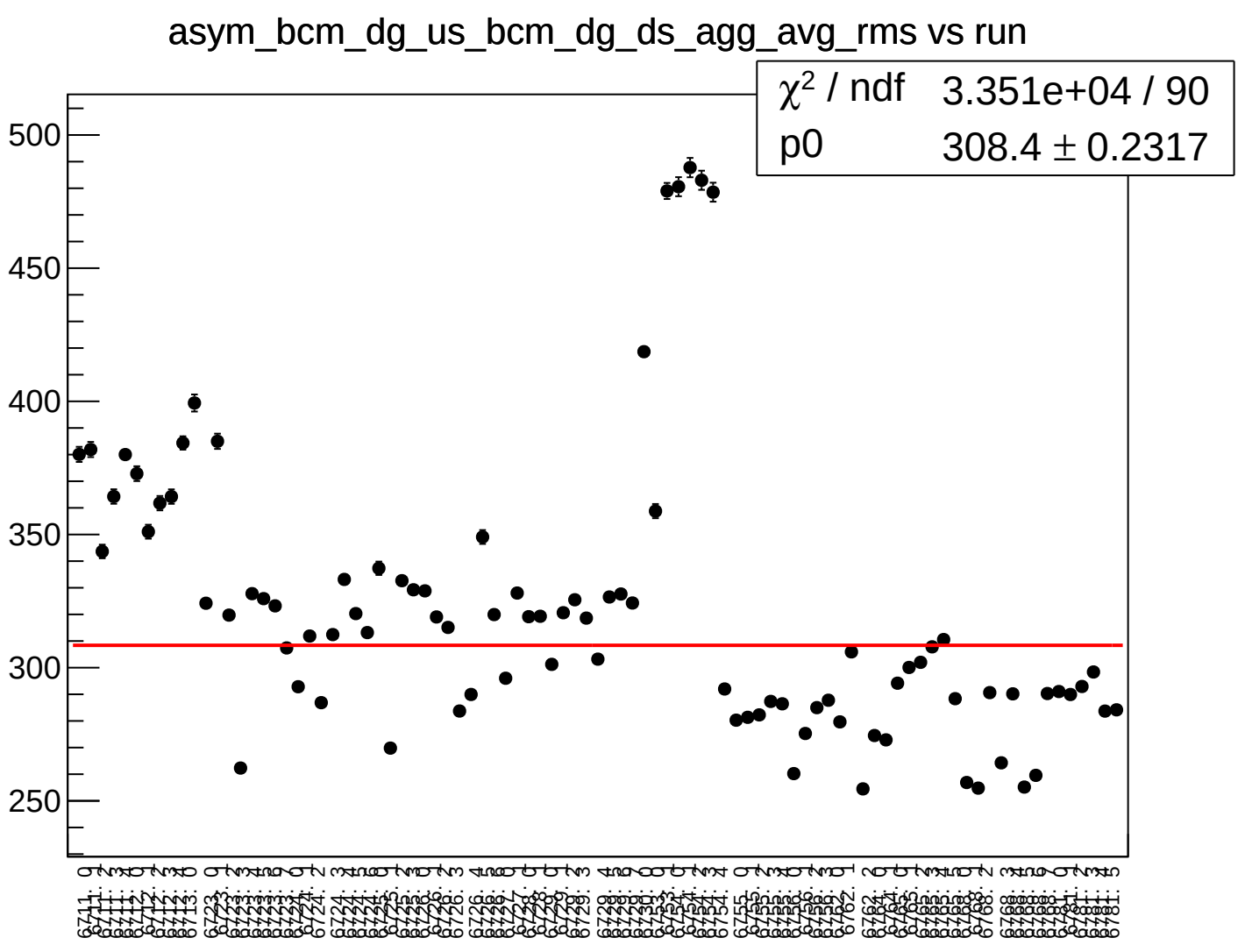

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 92.73 / 90
p0 11.15 ± 16.94
pull
Entries 91
Mean 1500
Std Dev 0

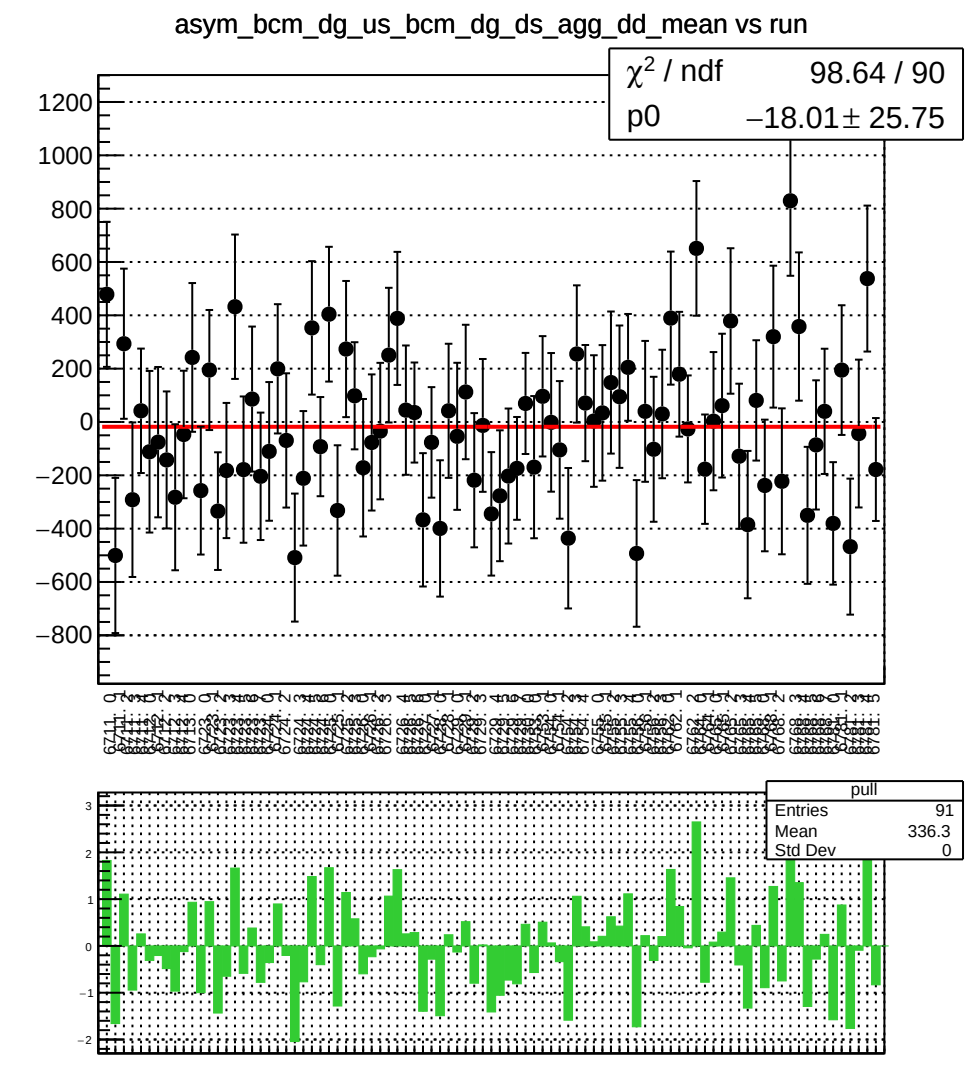

pull1D
Entries 91
Mean −0.003588
Std Dev 1.009

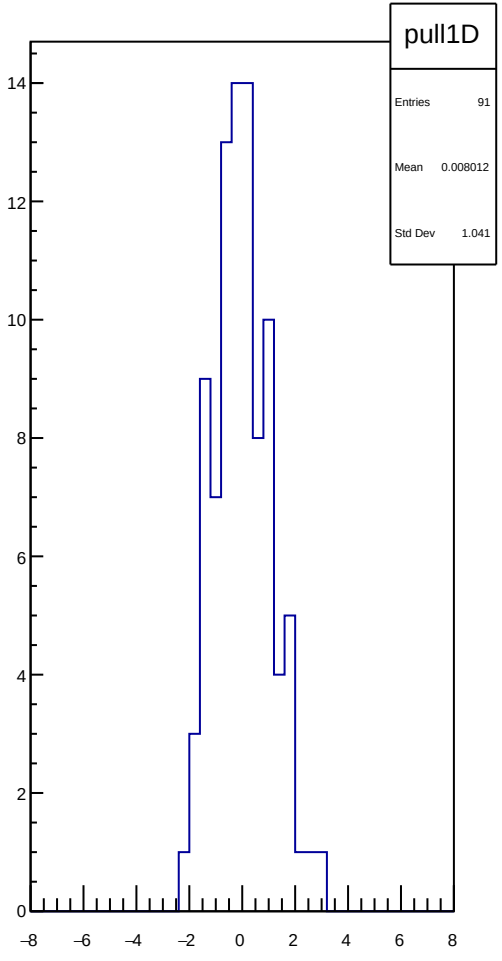

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 8023 / 90
p0 16.06 ± 0.01198
20
19
18
17
16
15

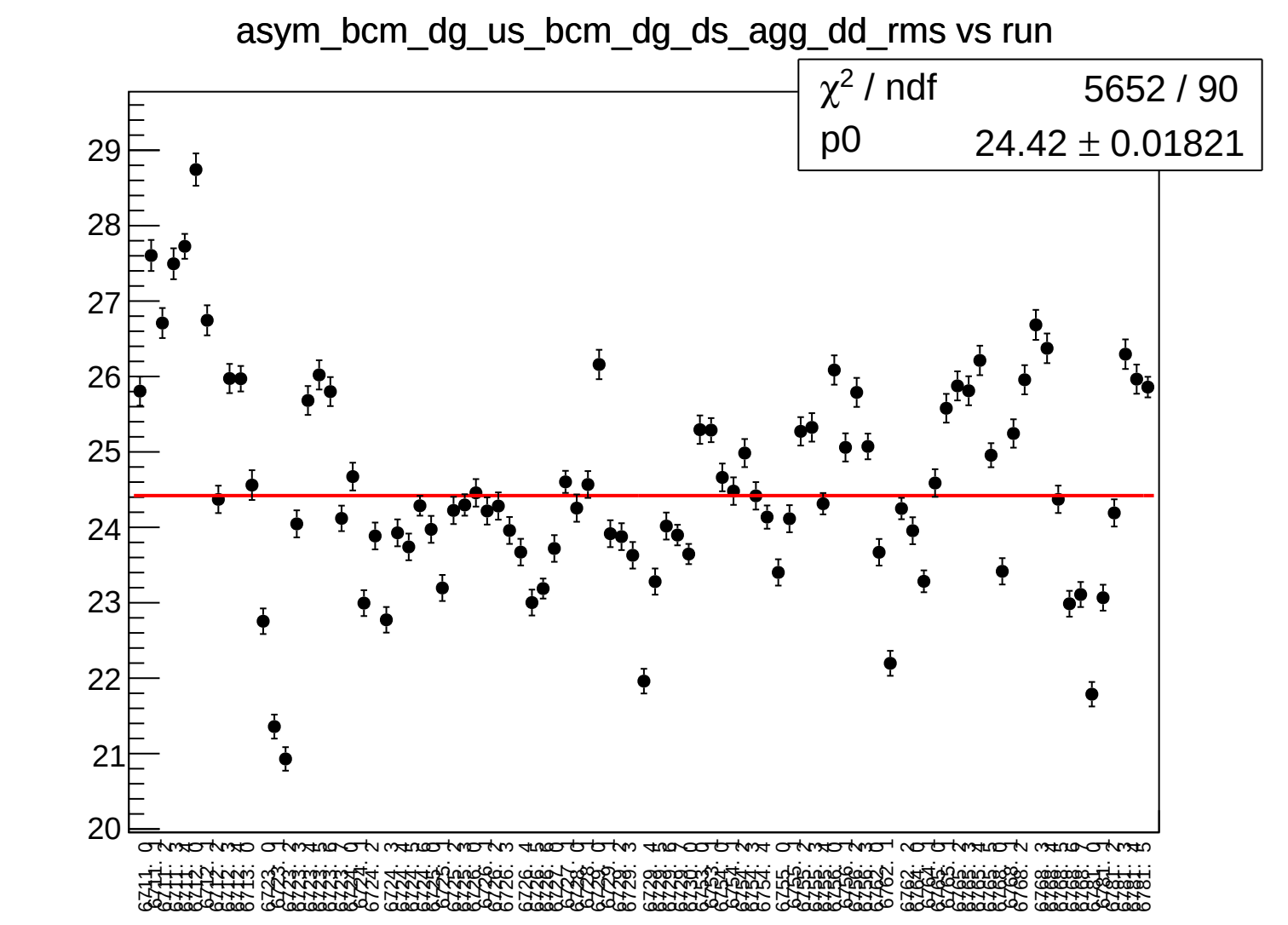

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 27.45 / 90
p0 −13.64 ± 327.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −189.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

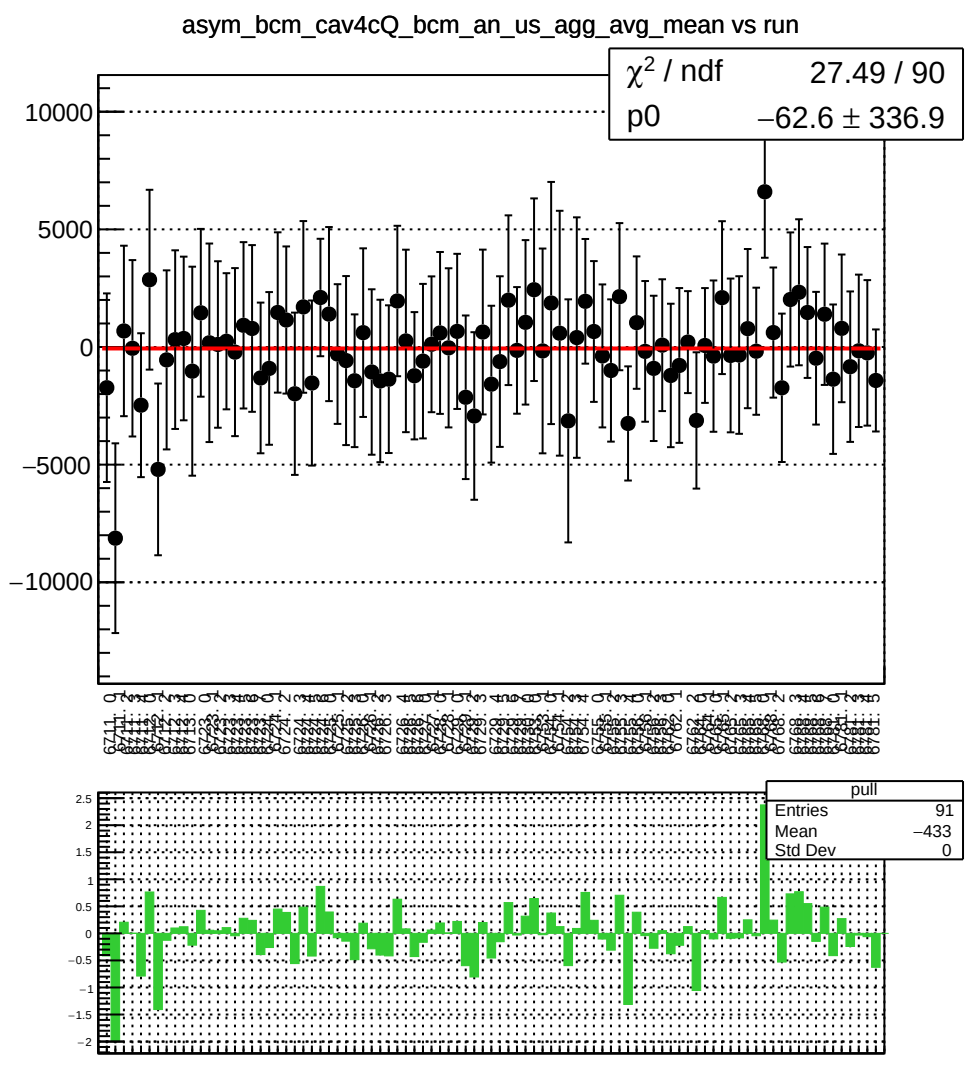

pull1D
Entries 91
Mean −0.008527
Std Dev 0.5492
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

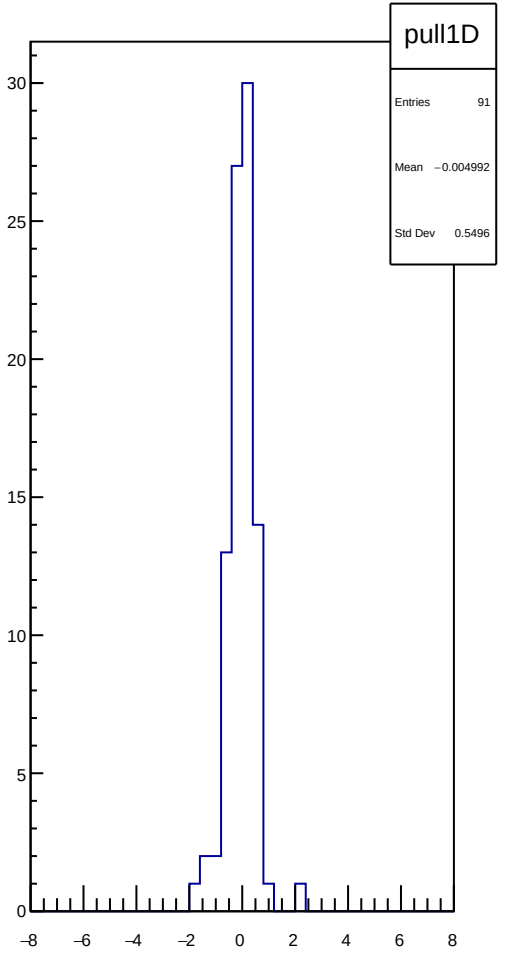

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.351e+04 / 90
p0 308.4 ± 0.2317
500
450
400
350
300
250

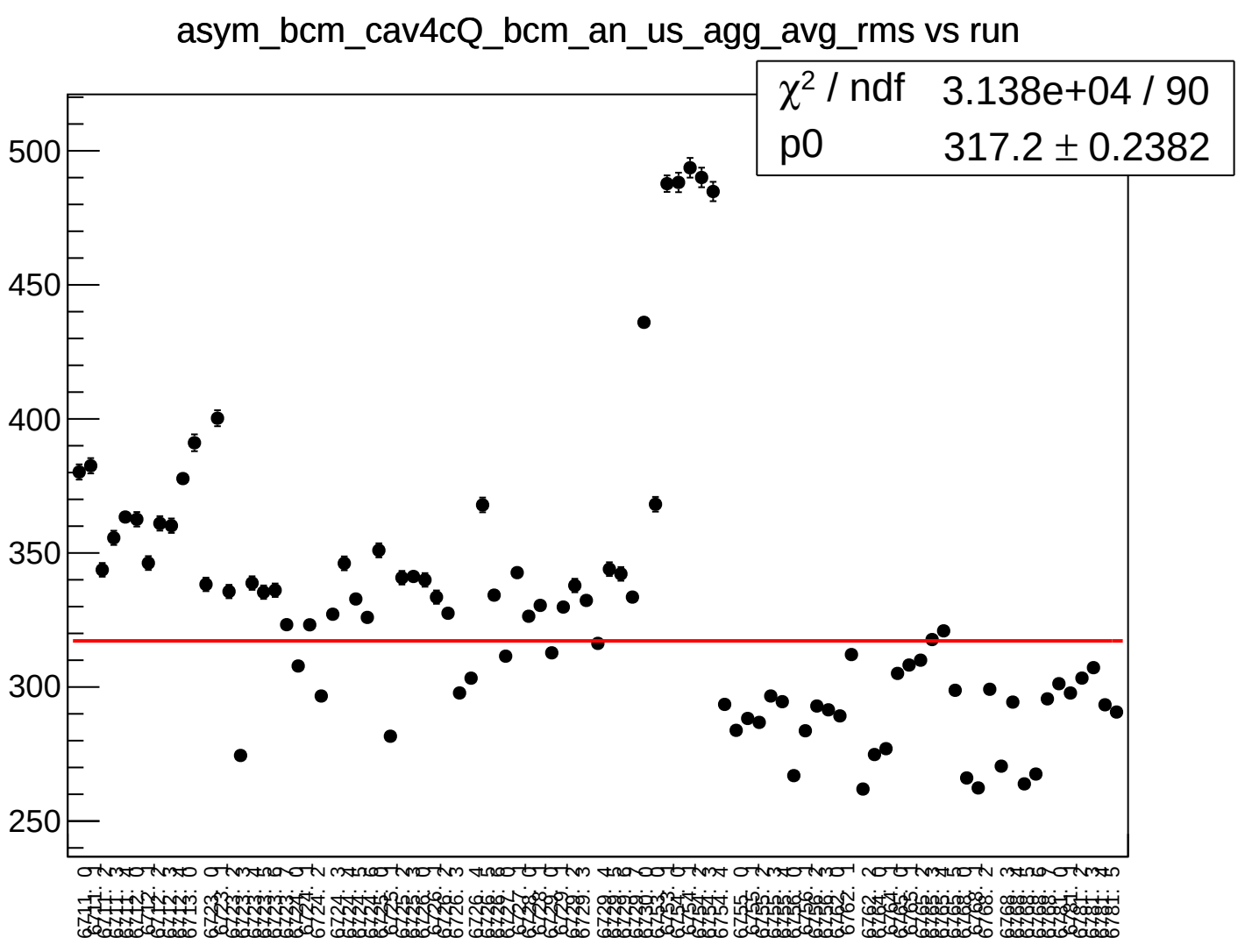

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 98.64 / 90
p0 −18.01 ± 25.75
pull
Entries 91
Mean 336.3
Std Dev 0

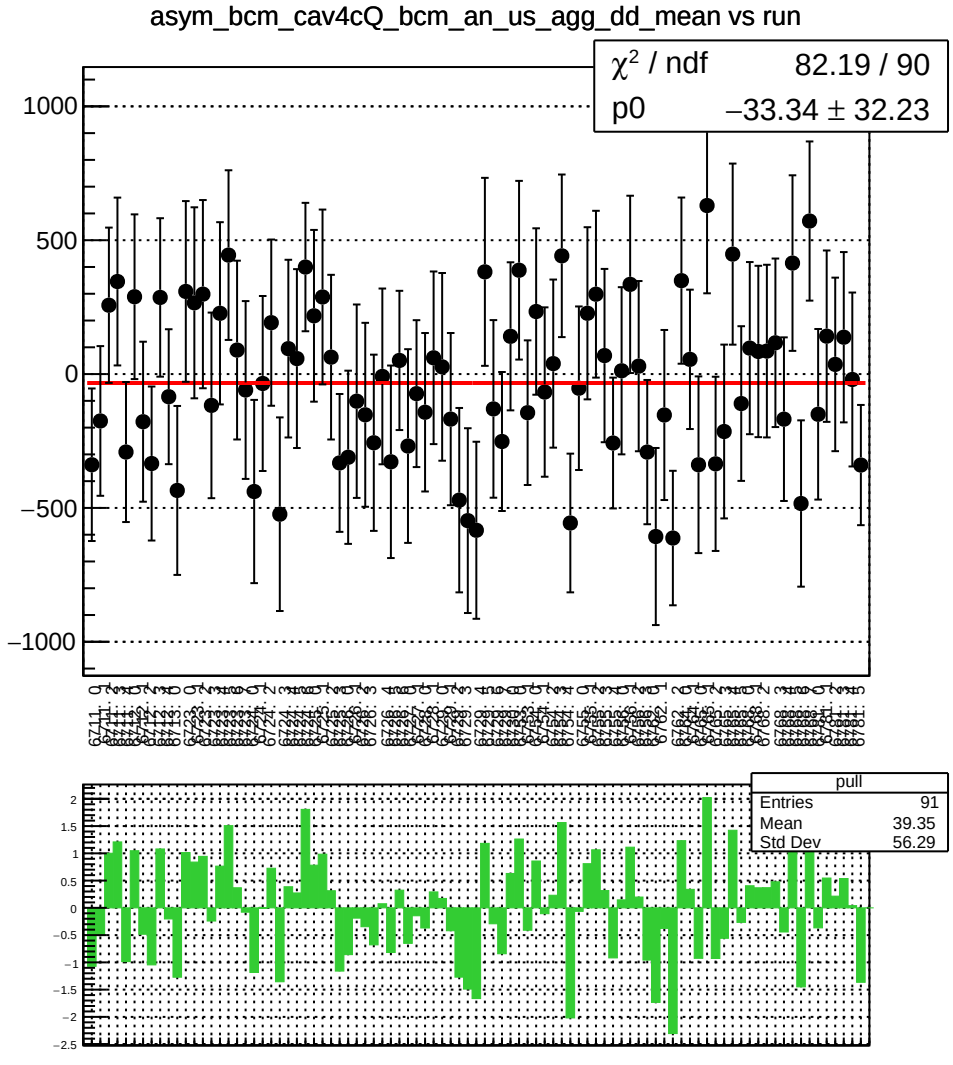

pull1D
Entries 91
Mean 0.008012
Std Dev 1.041

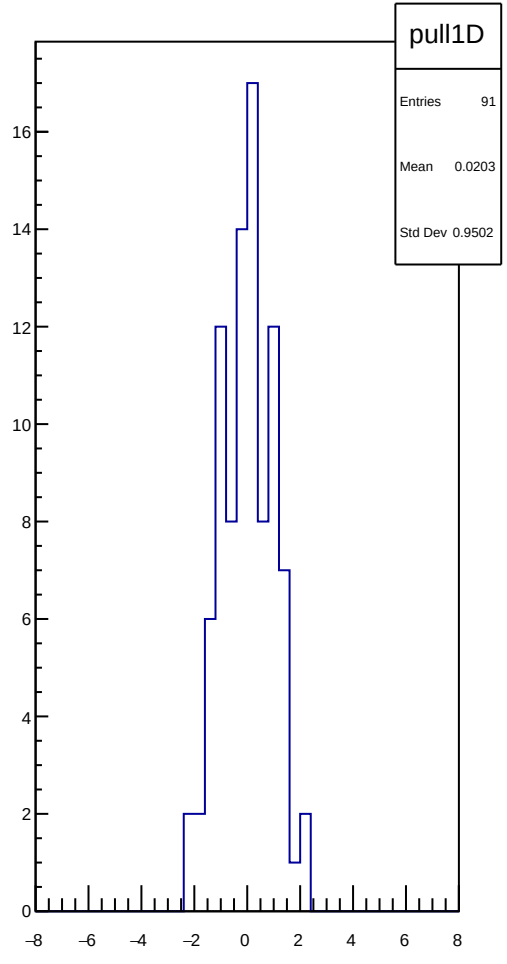

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 5652 / 90
p0 24.42 ± 0.01821
29
28
27
26
25
24
23
22
21
20

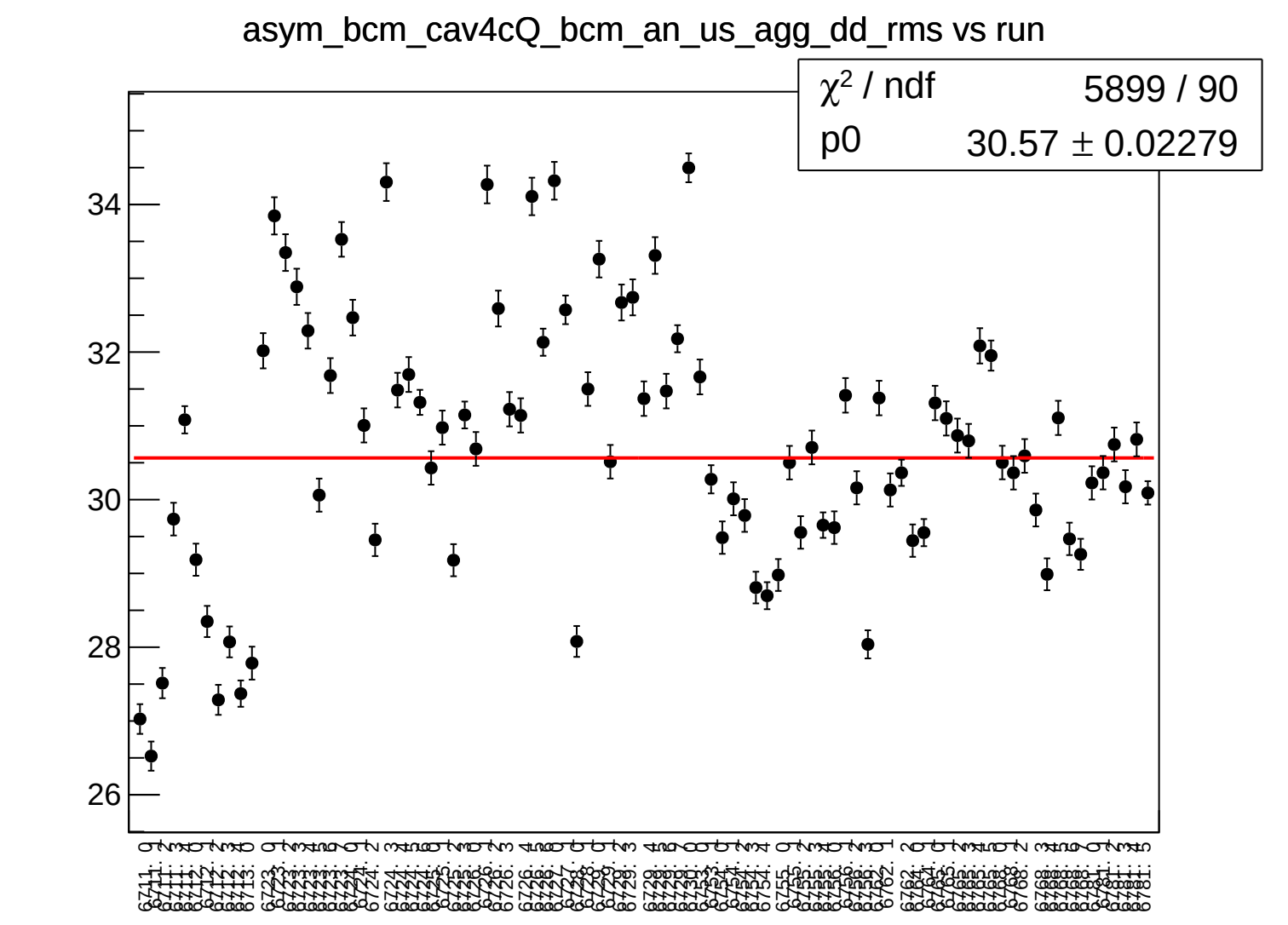

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 27.49 / 90
p0 −62.6 ± 336.9
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −433
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

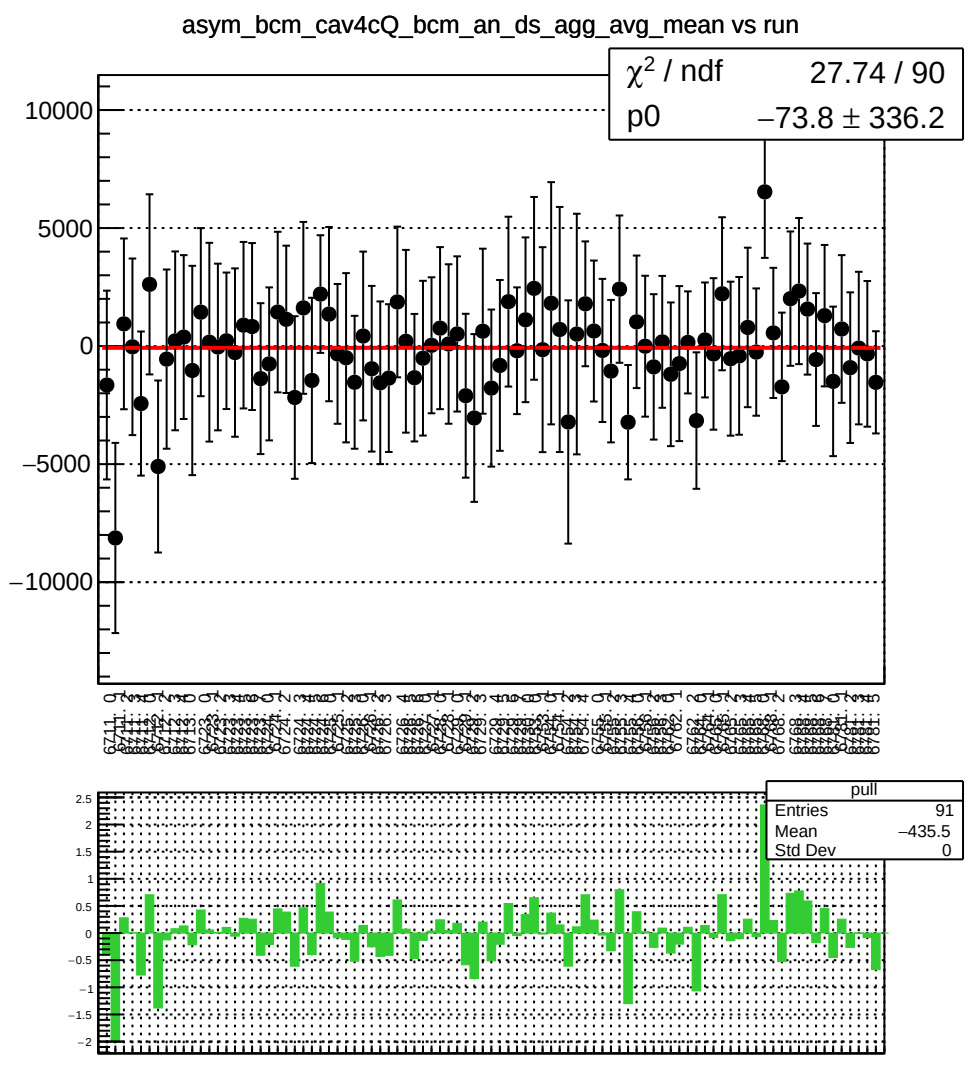

pull1D
Entries 91
Mean −0.004992
Std Dev 0.5496
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

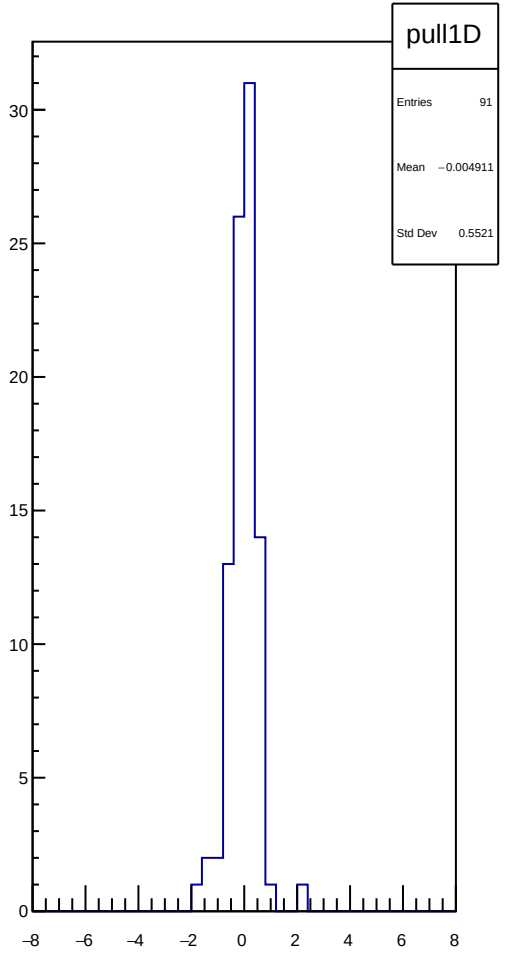

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.138e+04 / 90
p0 317.2 ± 0.2382
500
450
400
350
300
250

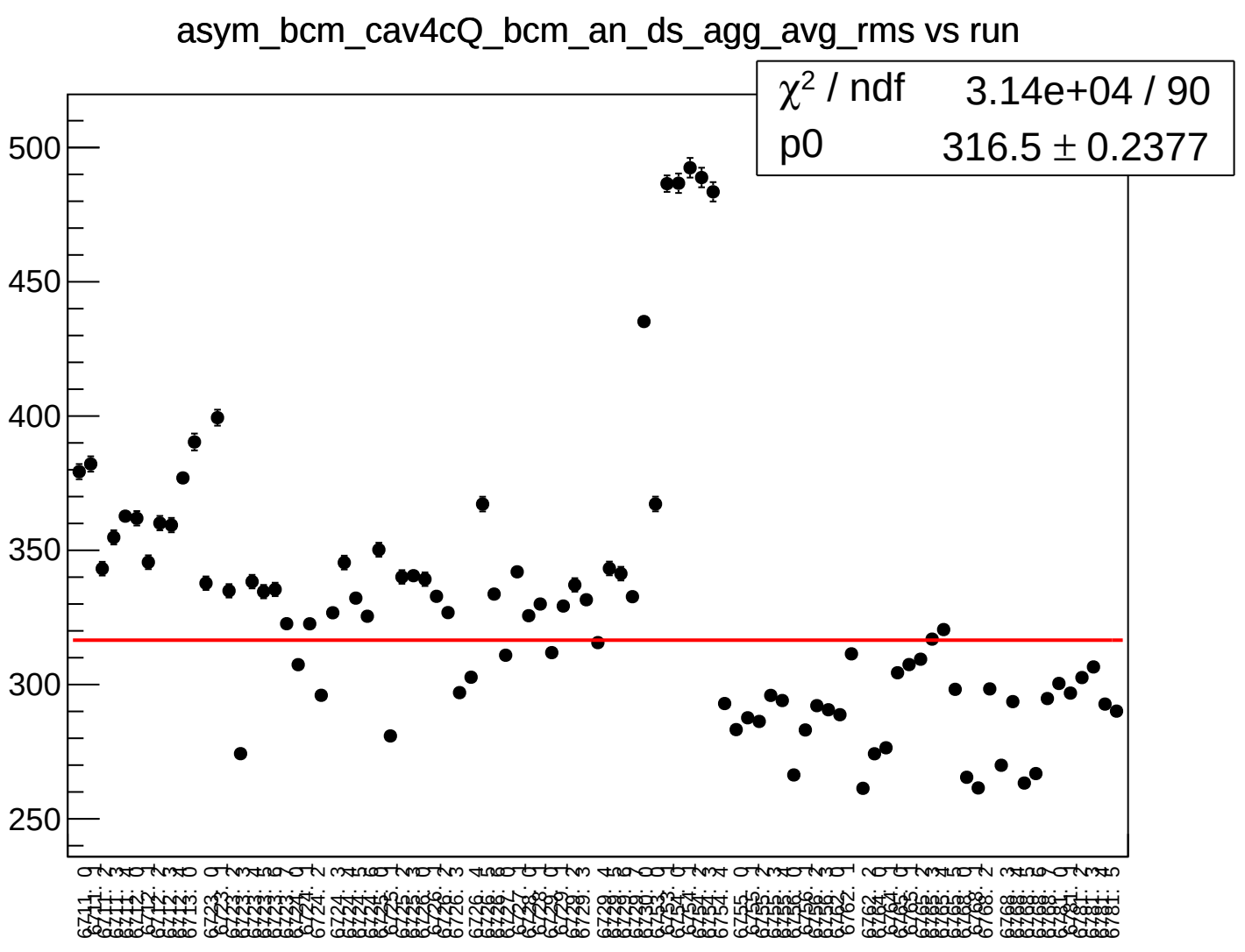

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 82.19 / 90
p0 −33.34 ± 32.23
1000
500
0
−500
−1000
pull
Entries 91
Mean 39.35
Std Dev 56.29
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

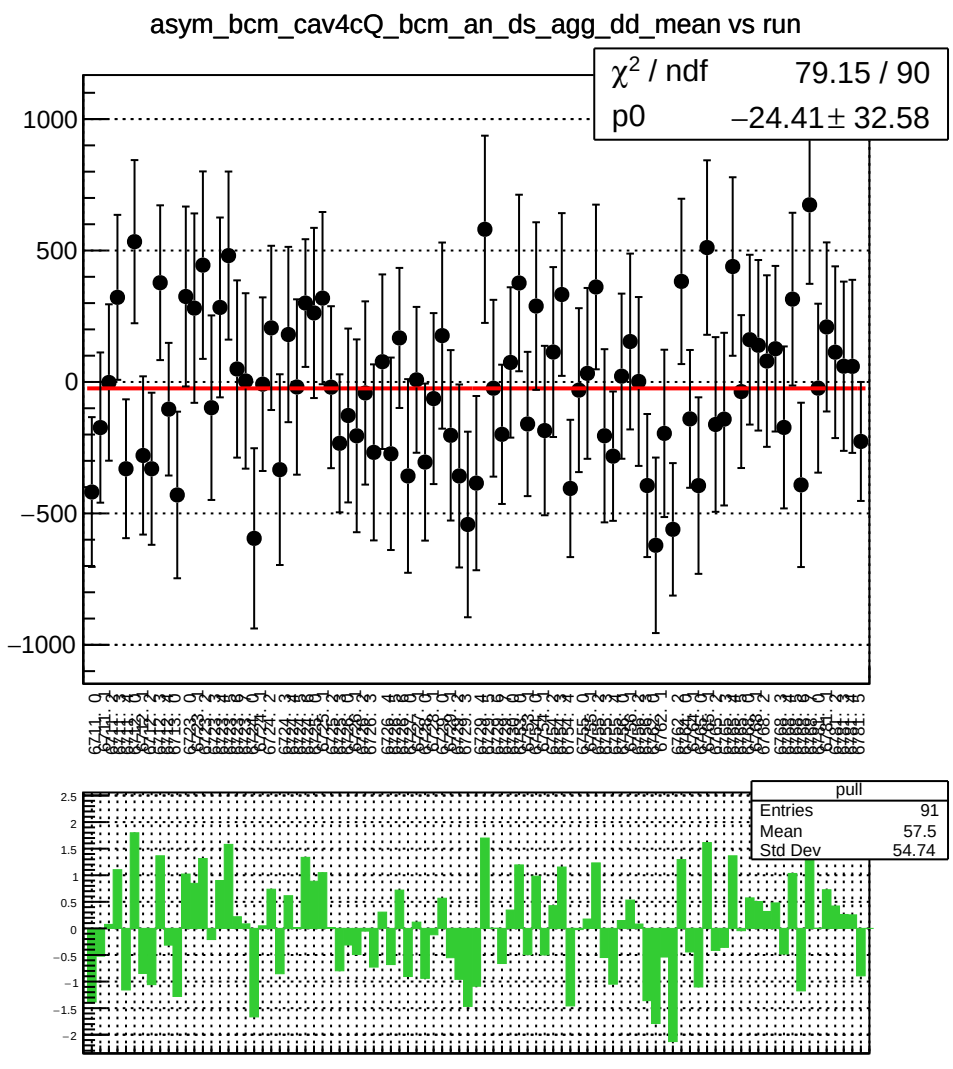

pull1D
Entries 91
Mean 0.0203
Std Dev 0.9502
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

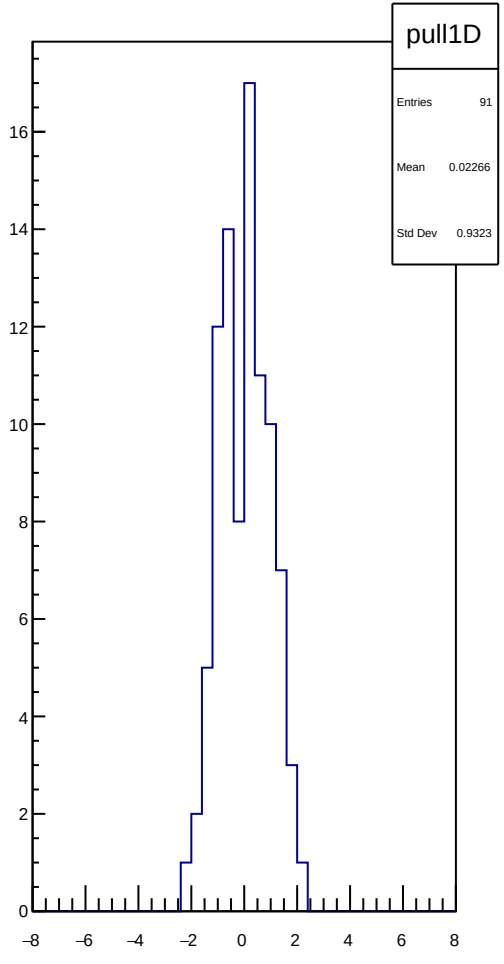

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 5899 / 90
p0 30.57 ± 0.02279
34
32
30
28
26

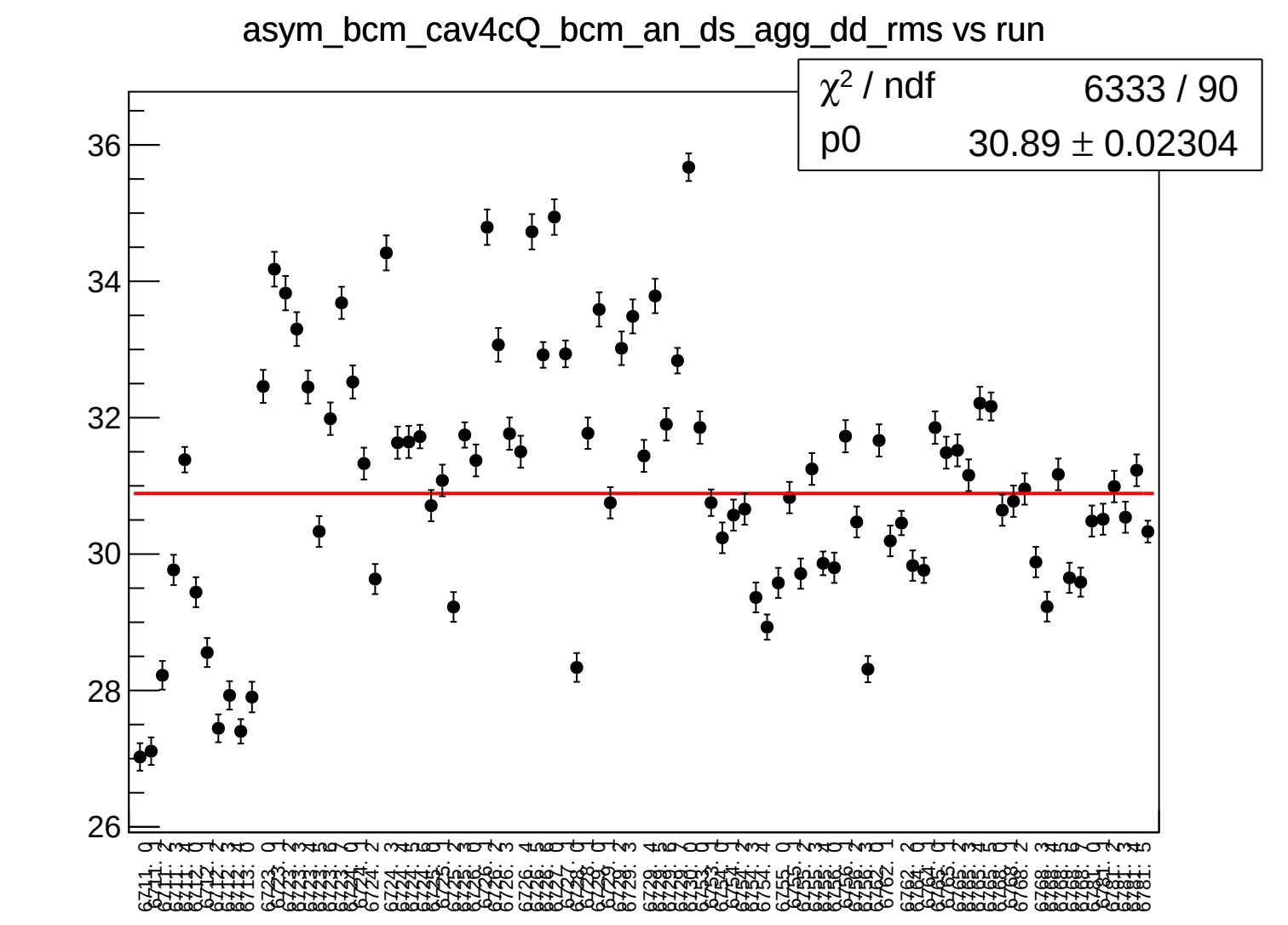

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 27.74 / 90
p0 −73.8 ± 336.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −435.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

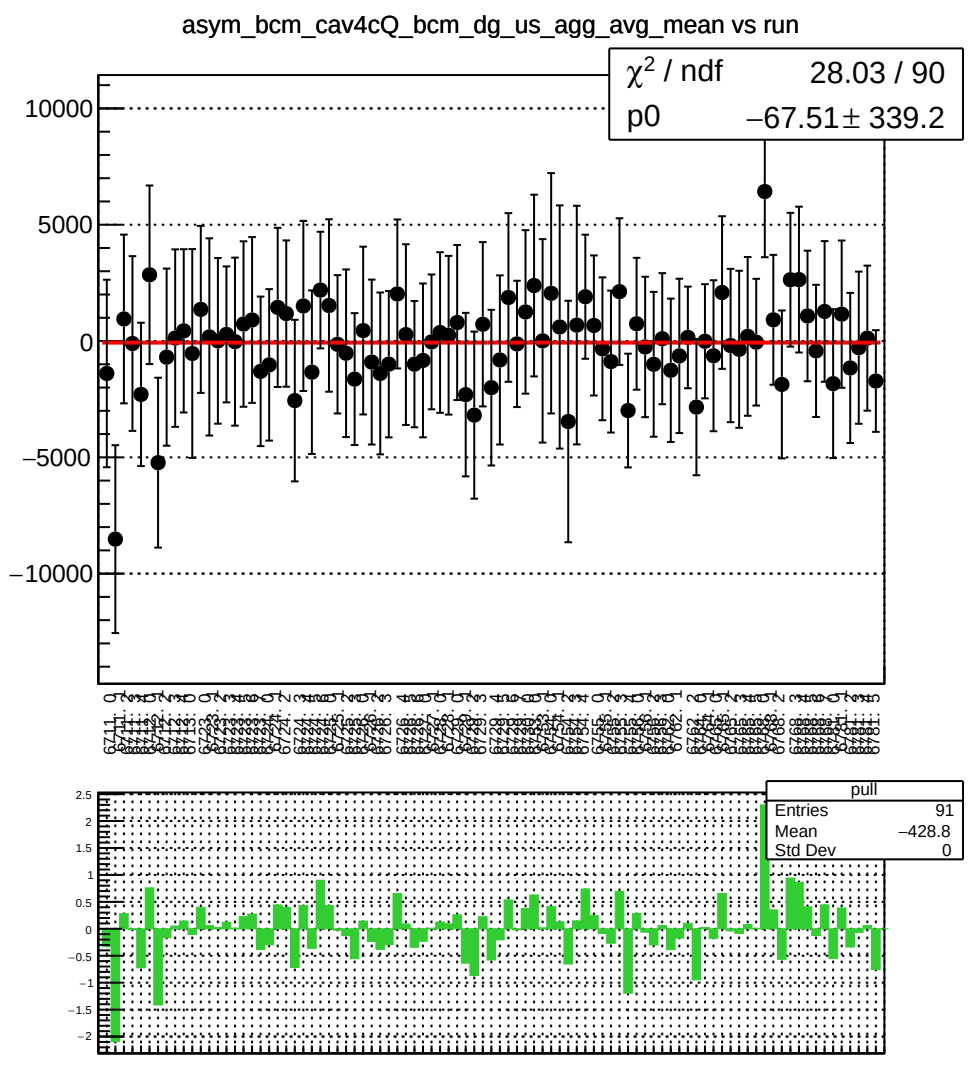

pull1D
Entries 91
Mean −0.004911
Std Dev 0.5521
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

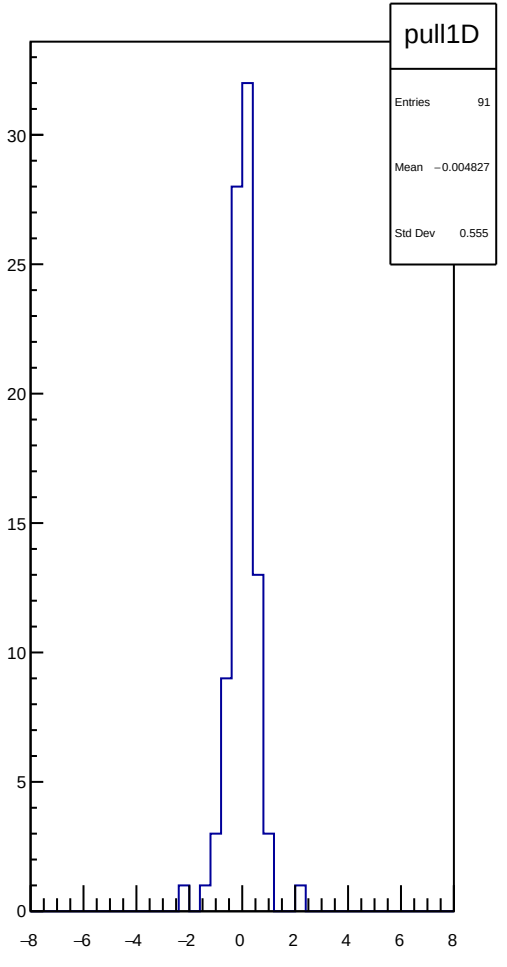

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.14e+04 / 90
p0 316.5 ± 0.2377
500
450
400
350
300
250

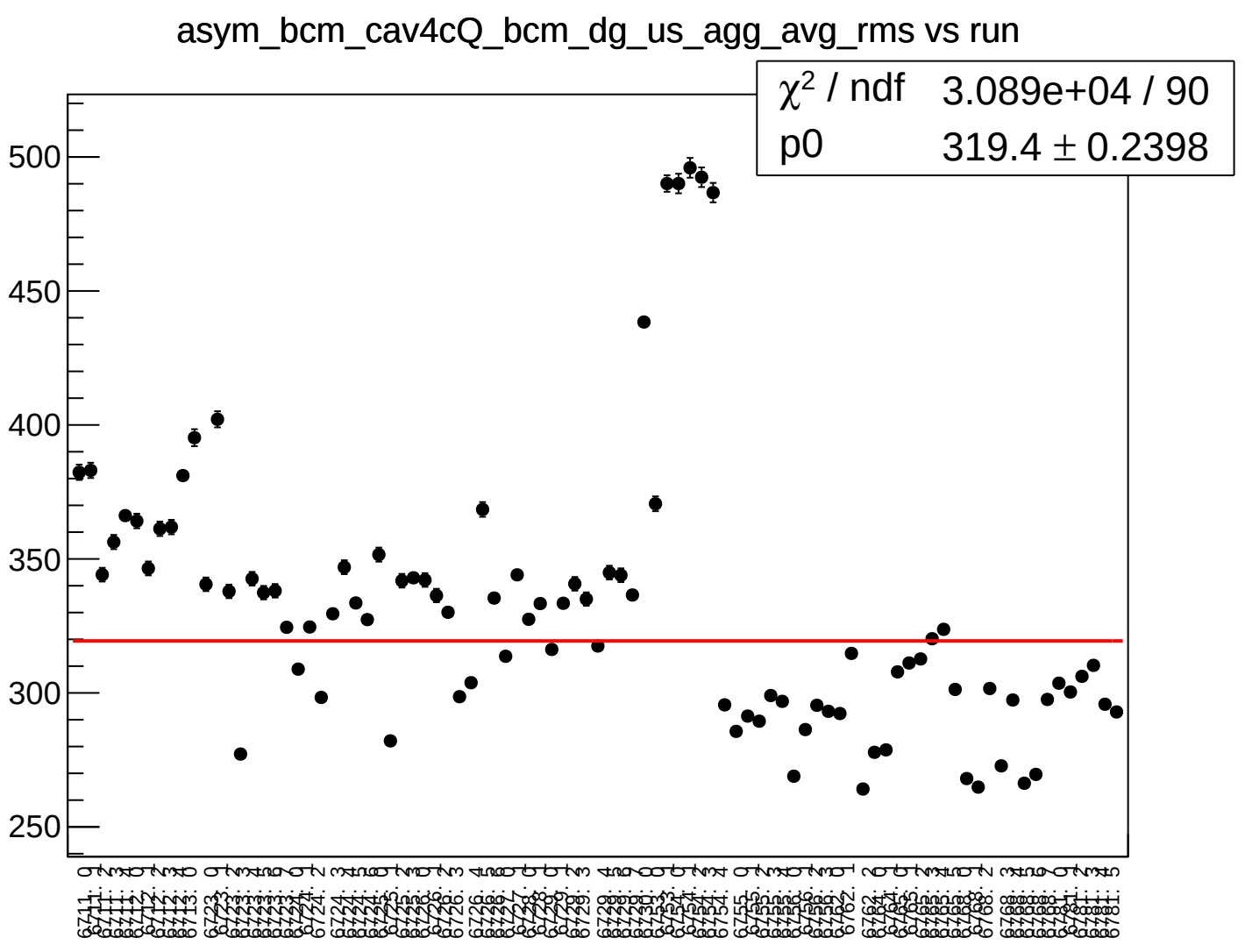

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 79.15 / 90
p0 −24.41 ± 32.58
1000
500
0
−500
−1000
pull
Entries 91
Mean 57.5
Std Dev 54.74
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

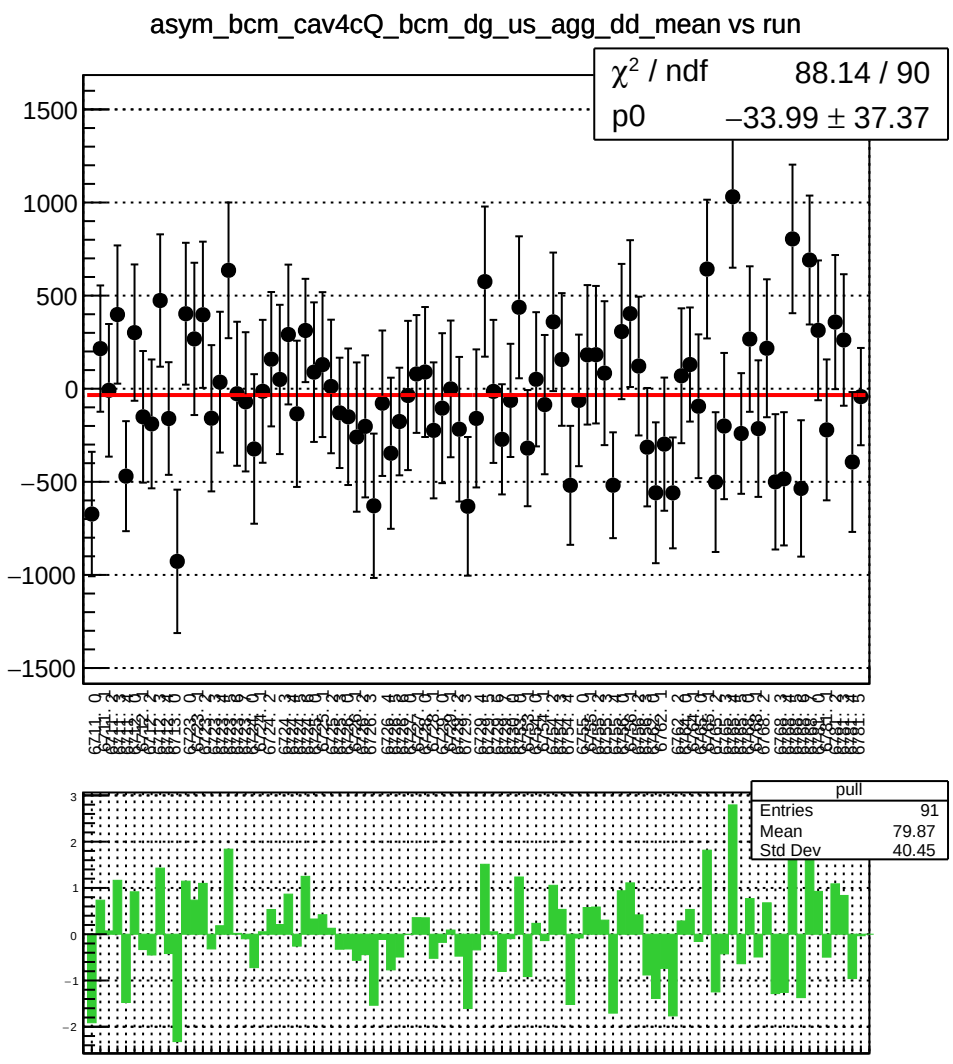

pull1D
Entries 91
Mean 0.02266
Std Dev 0.9323
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

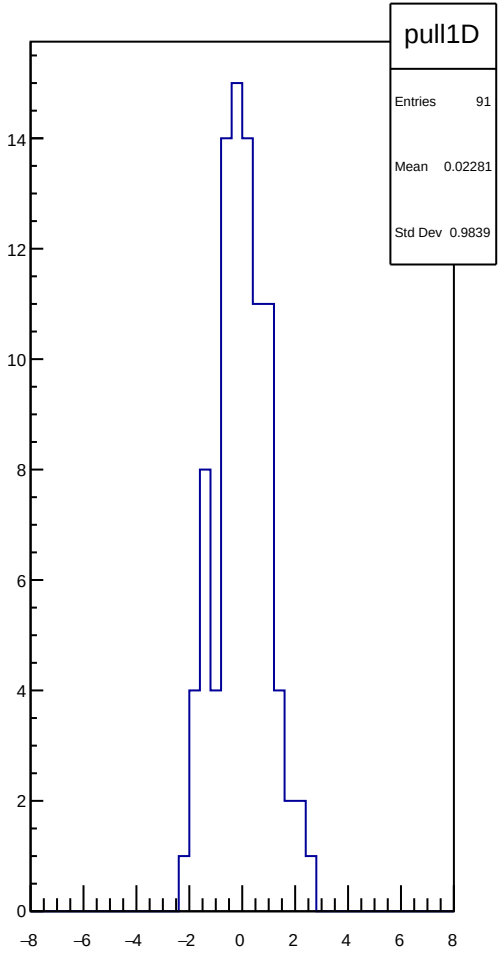

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 6333 / 90
p0 30.89 ± 0.02304
36
34
32
30
28
26

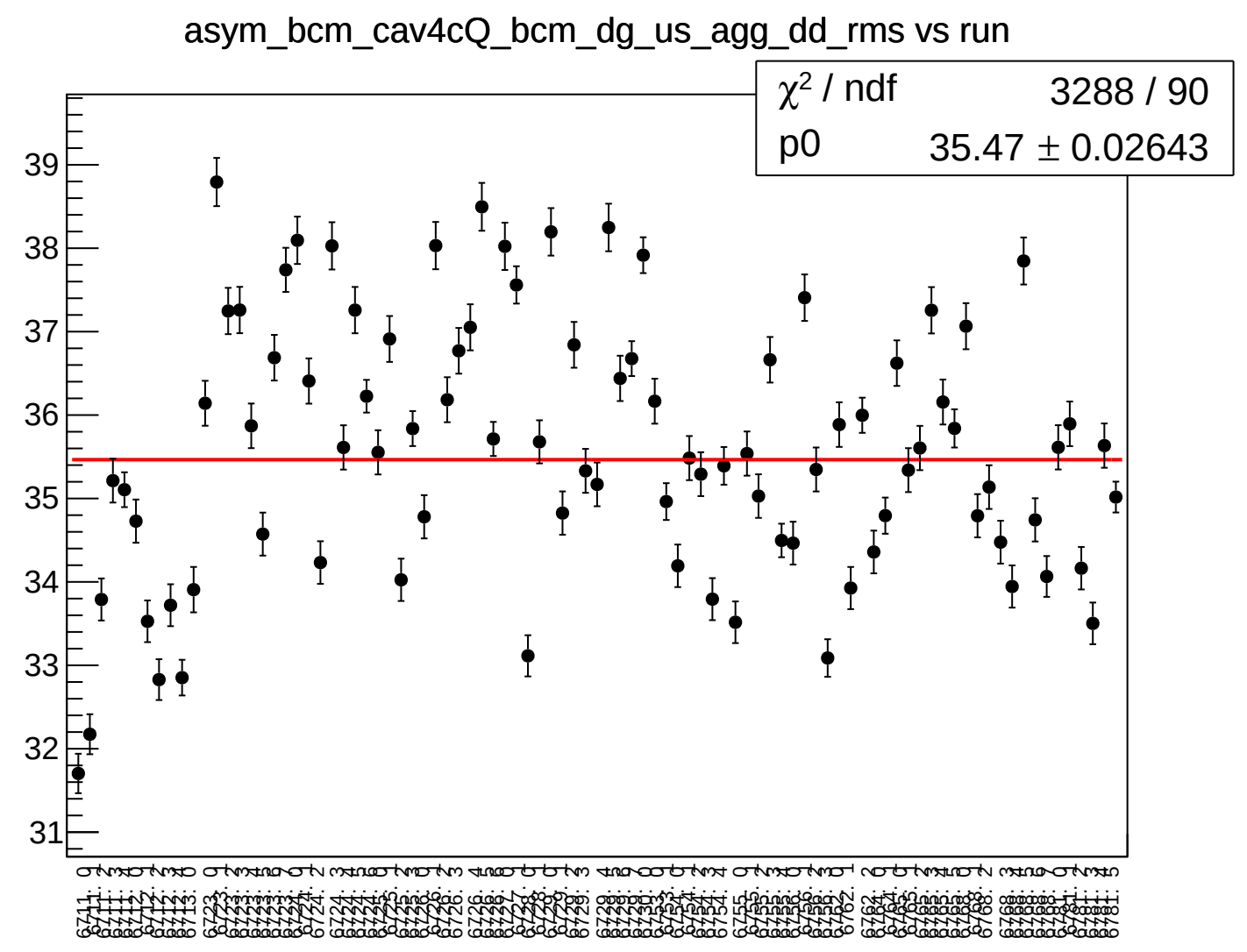

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 28.03 / 90
p0 −67.51 ± 339.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −428.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

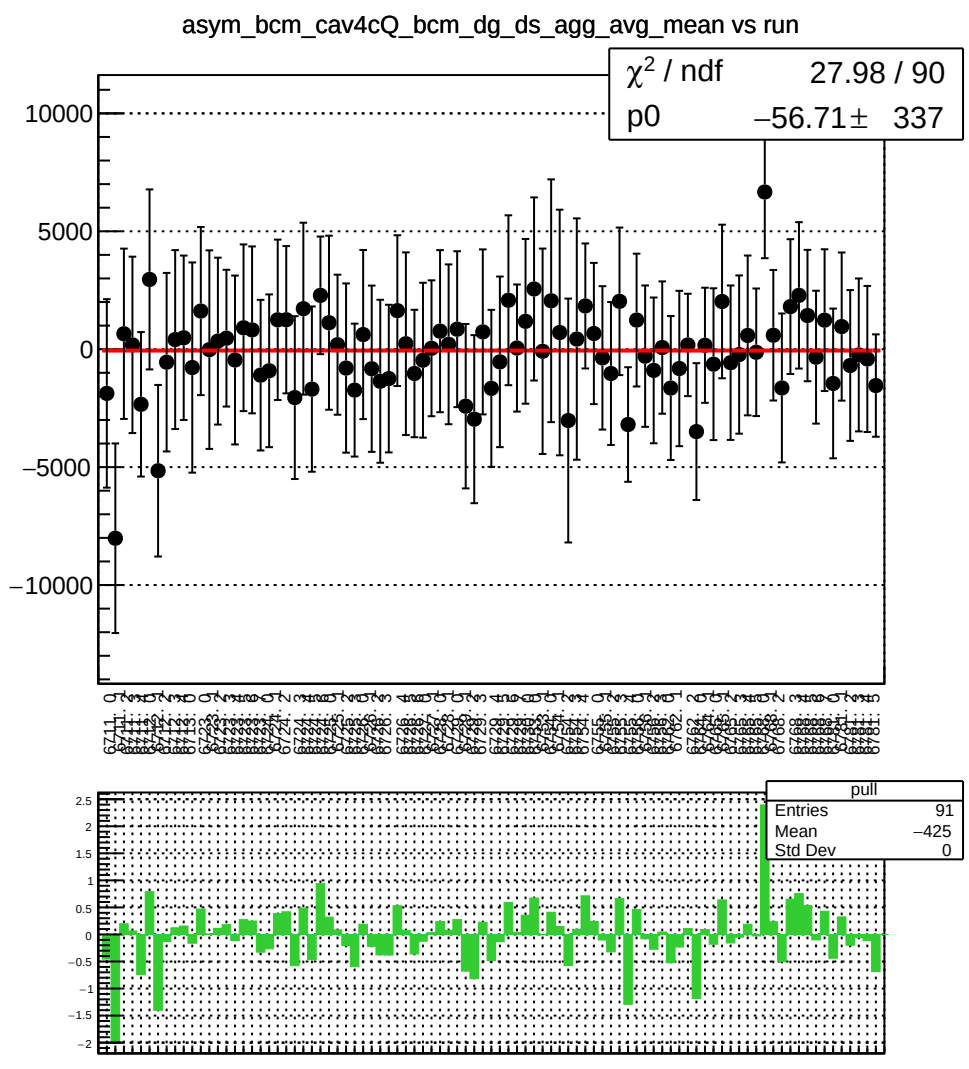

pull1D
Entries 91
Mean −0.004827
Std Dev 0.555
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

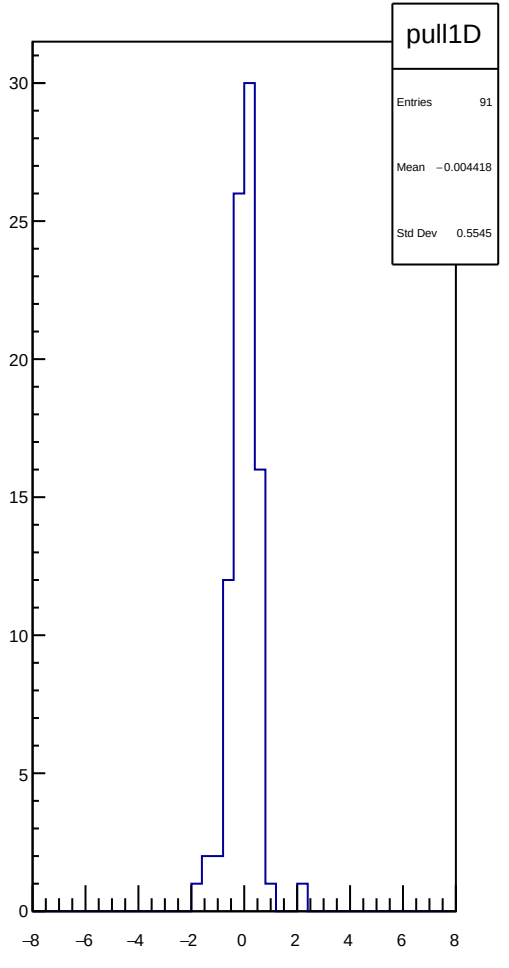

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 3.089e+04 / 90
p0 319.4 ± 0.2398
500
450
400
350
300
250

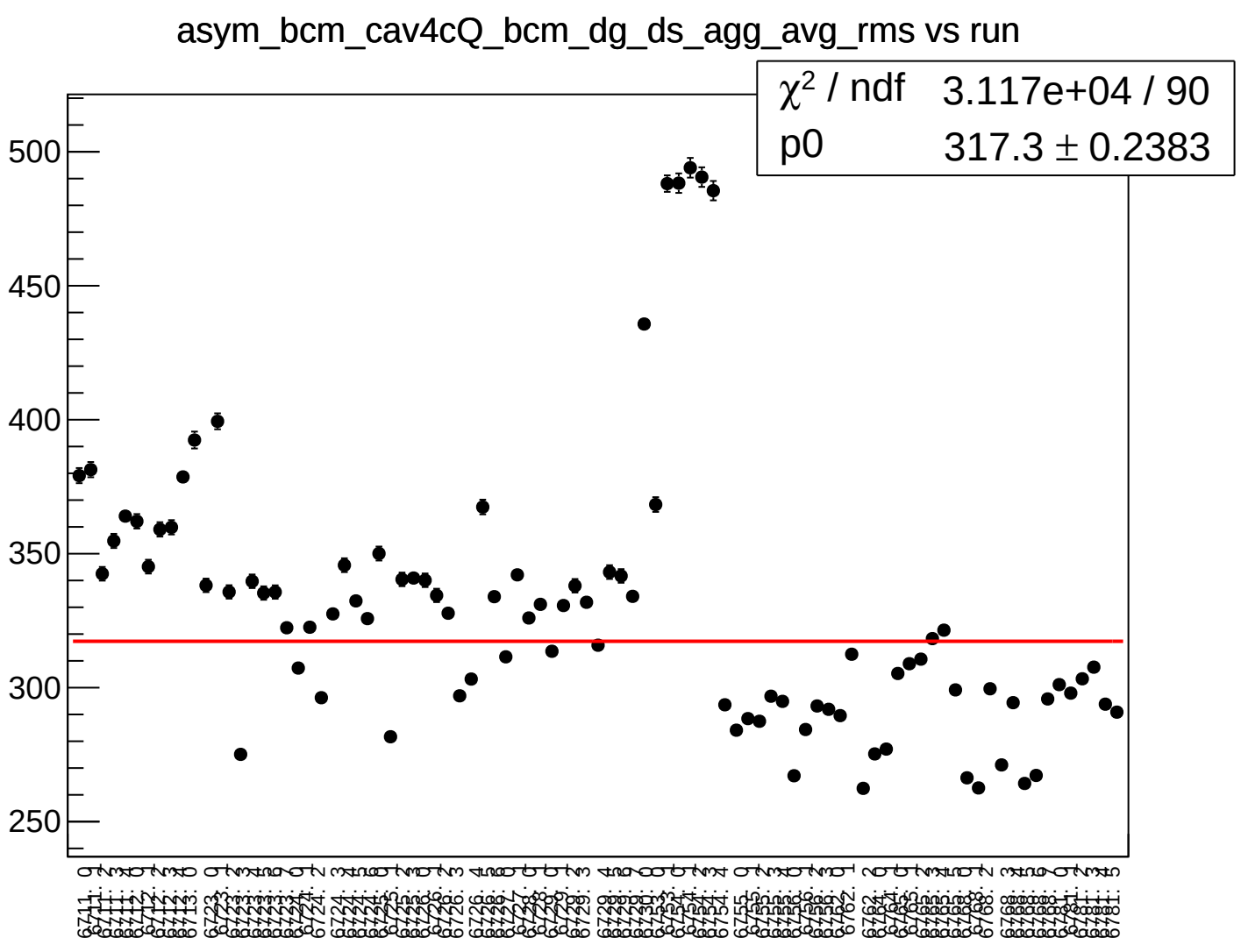

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 88.14 / 90
p0 −33.99 ± 37.37
1500
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean 79.87
Std Dev 40.45
3
2
1
0
−1
−2

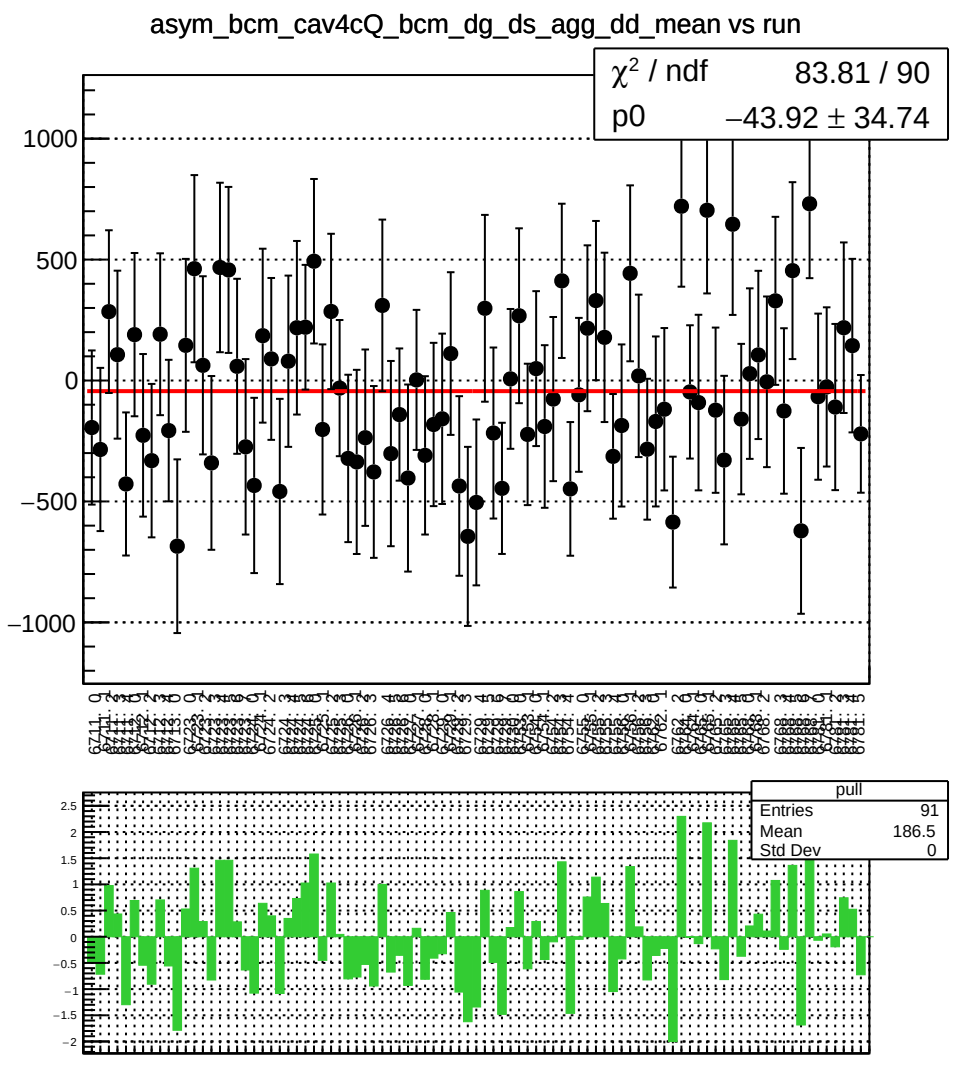

pull1D
Entries 91
Mean 0.02281
Std Dev 0.9839
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

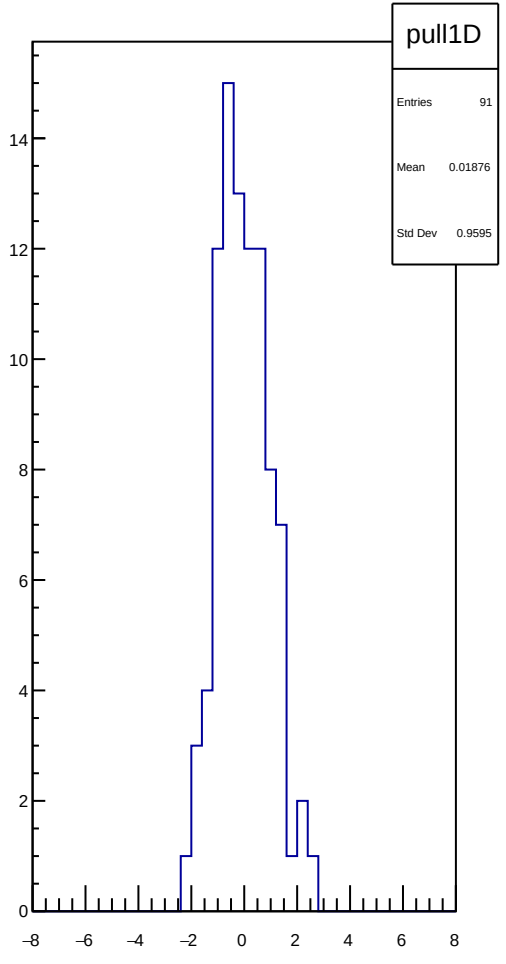

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 3288 / 90
p0 35.47 ± 0.02643
39
38
37
36
35
34
33
32
31

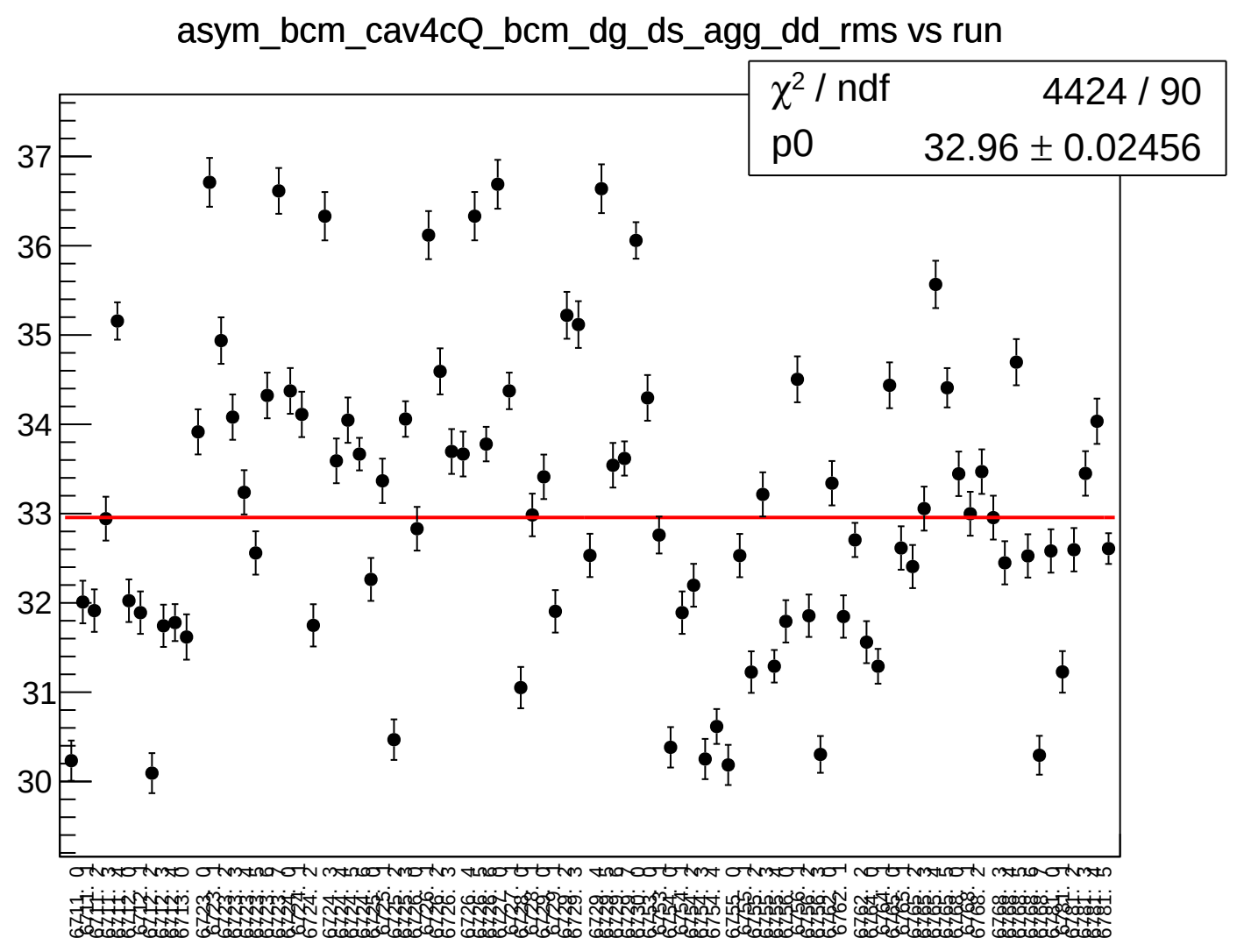

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 27.98 / 90
p0 −56.71 ± 337
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −425
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

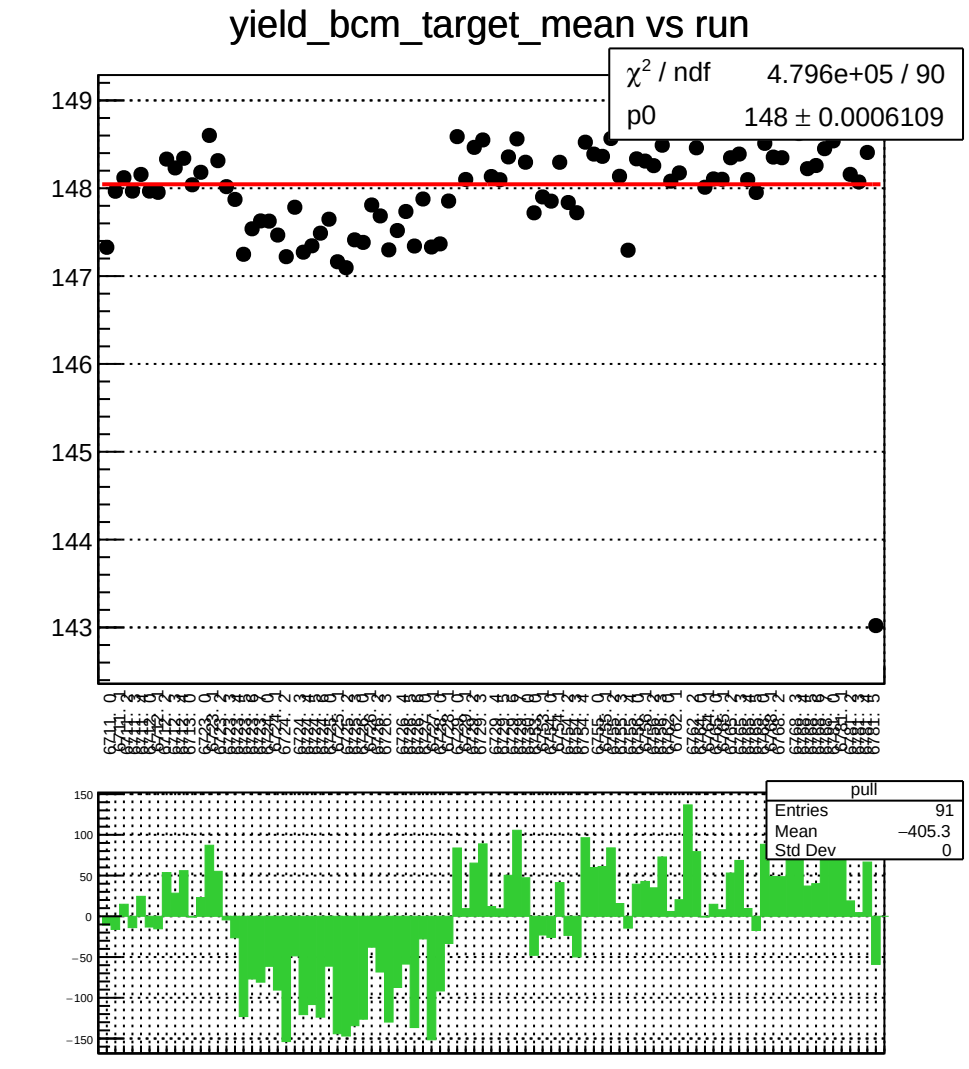

pull1D
Entries 91
Mean −0.004418
Std Dev 0.5545
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

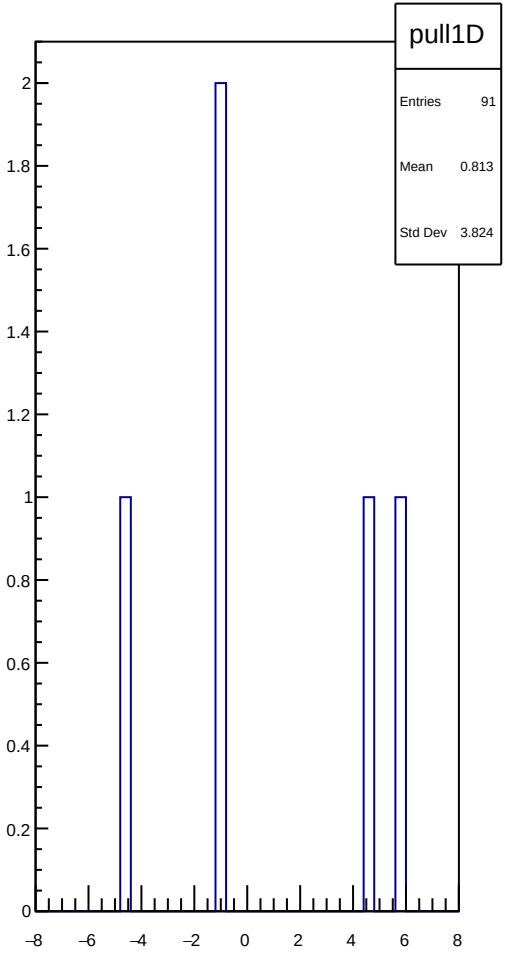

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.117e+04 / 90
p0 317.3 ± 0.2383
500
450
400
350
300
250

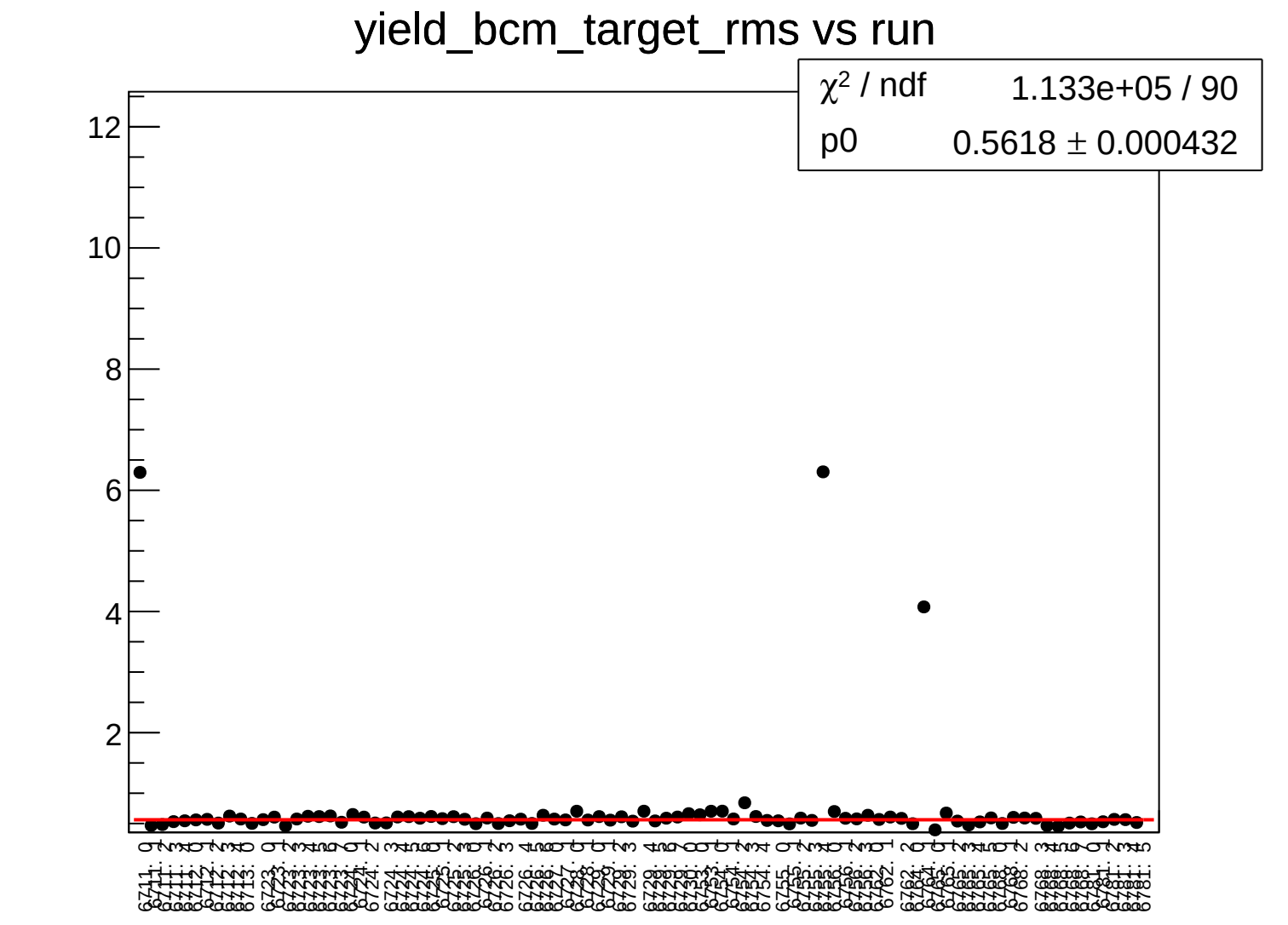

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 83.81 / 90
p0 −43.92 ± 34.74
1000
500
0
−500
−1000
pull
Entries 91
Mean 186.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

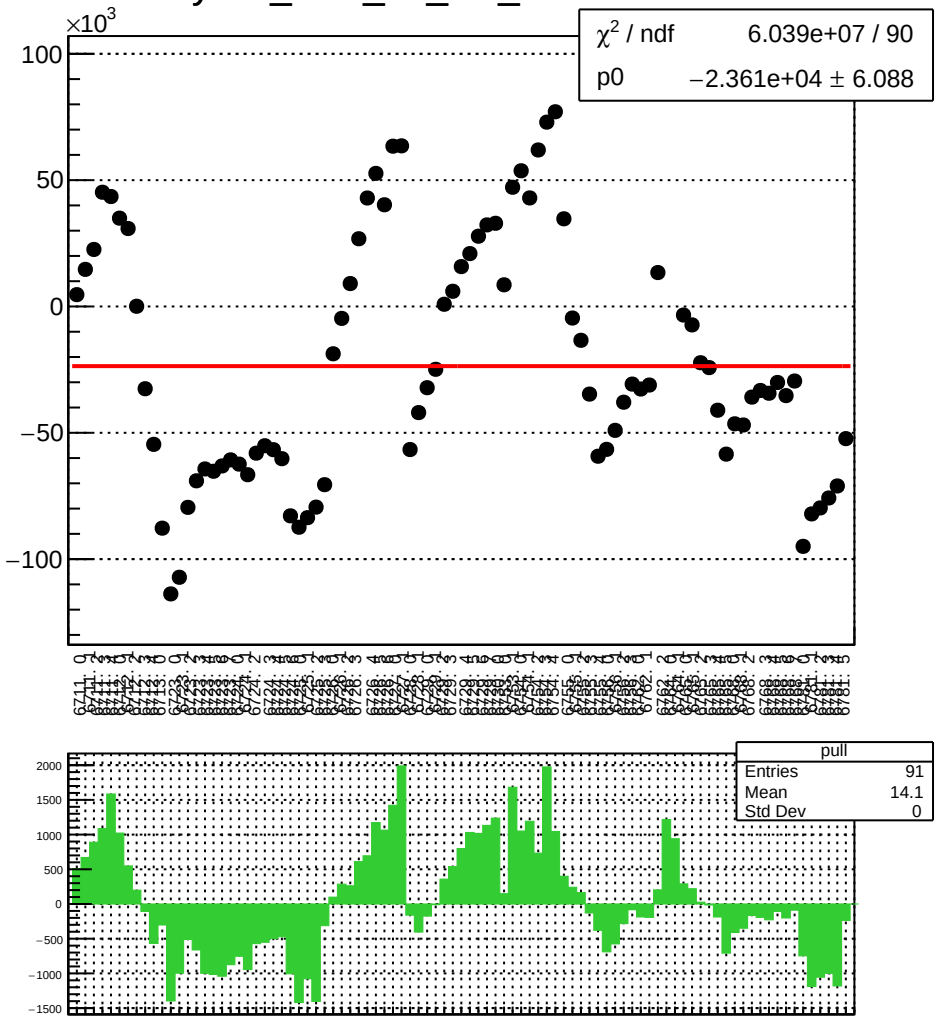

pull1D
Entries 91
Mean 0.01876
Std Dev 0.9595
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

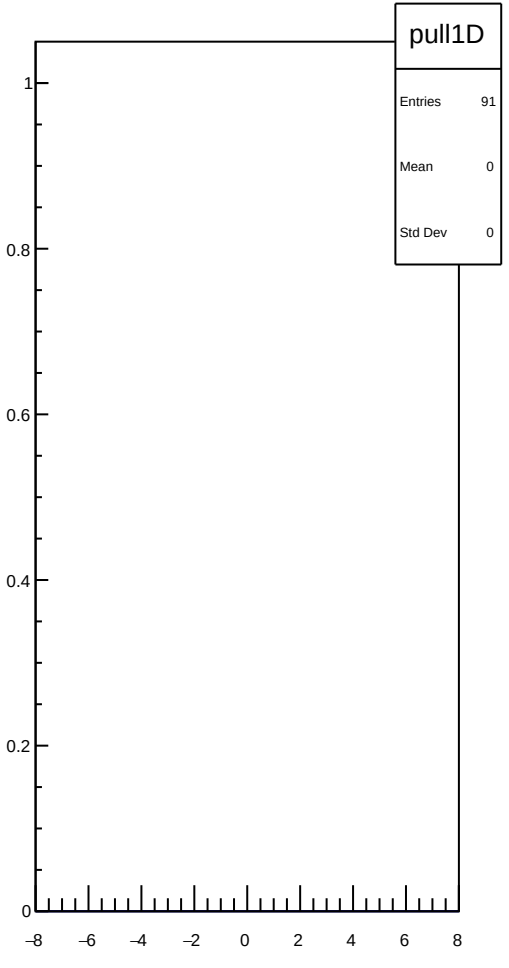

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4424 / 90
p0 32.96 ± 0.02456
37
36
35
34
33
32
31
30

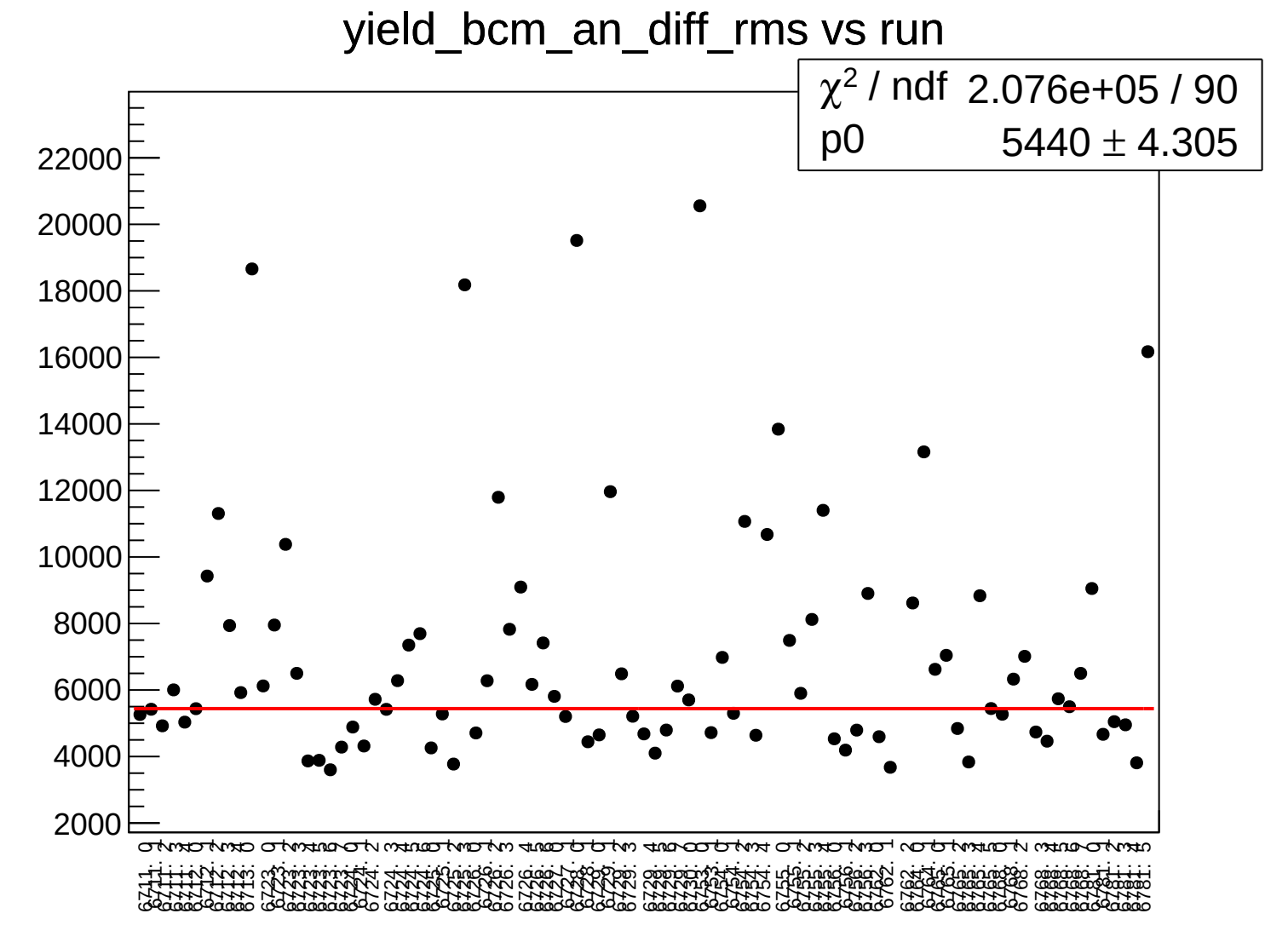

yield_bcm_target_mean vs run
χ² / ndf 4.796e+05 / 90
p0 148 ± 0.0006109
149
148
147
146
145
144
143
pull
Entries 91
Mean −405.3
Std Dev 0
150
100
50
0
−50
−100
−150

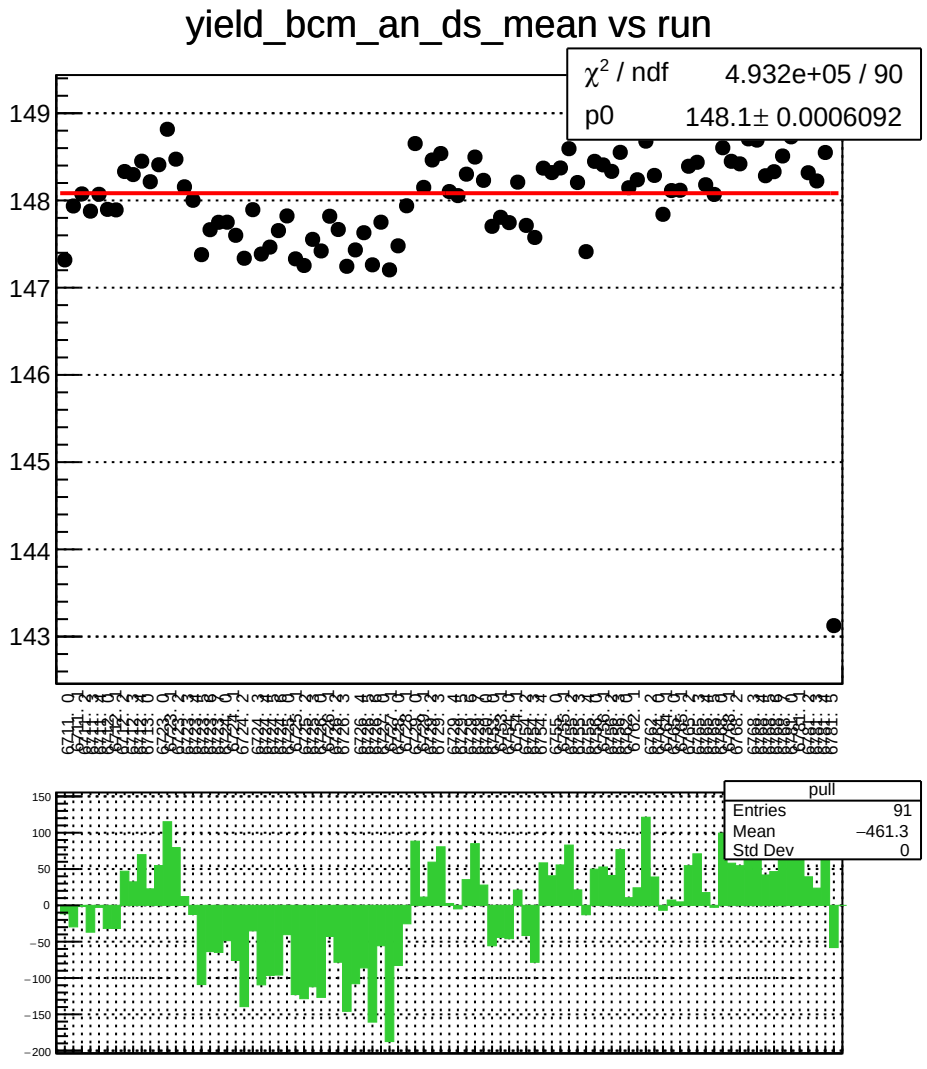

pull1D
Entries 91
Mean 0.813
Std Dev 3.824
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

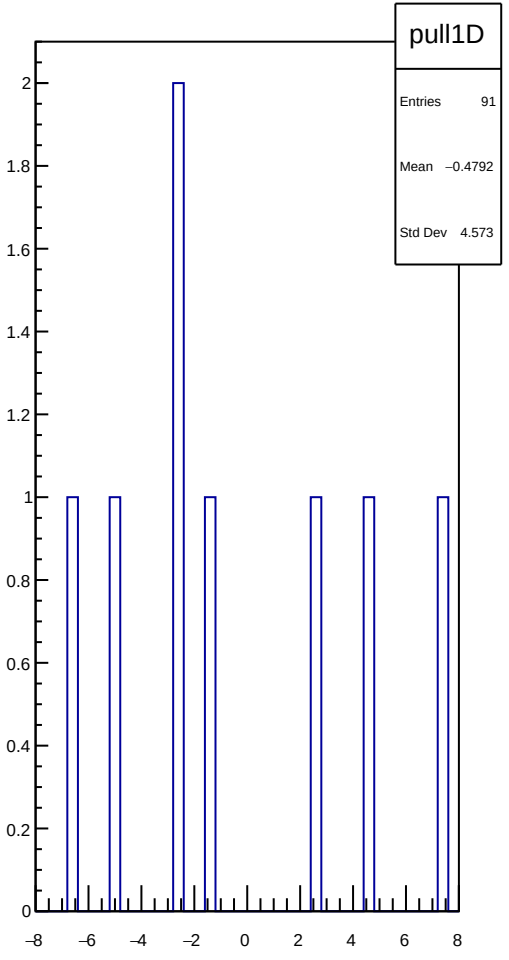

yield_bcm_target_rms vs run
χ² / ndf 1.133e+05 / 90
p0 0.5618 ± 0.000432
12
10
8
6
4
2

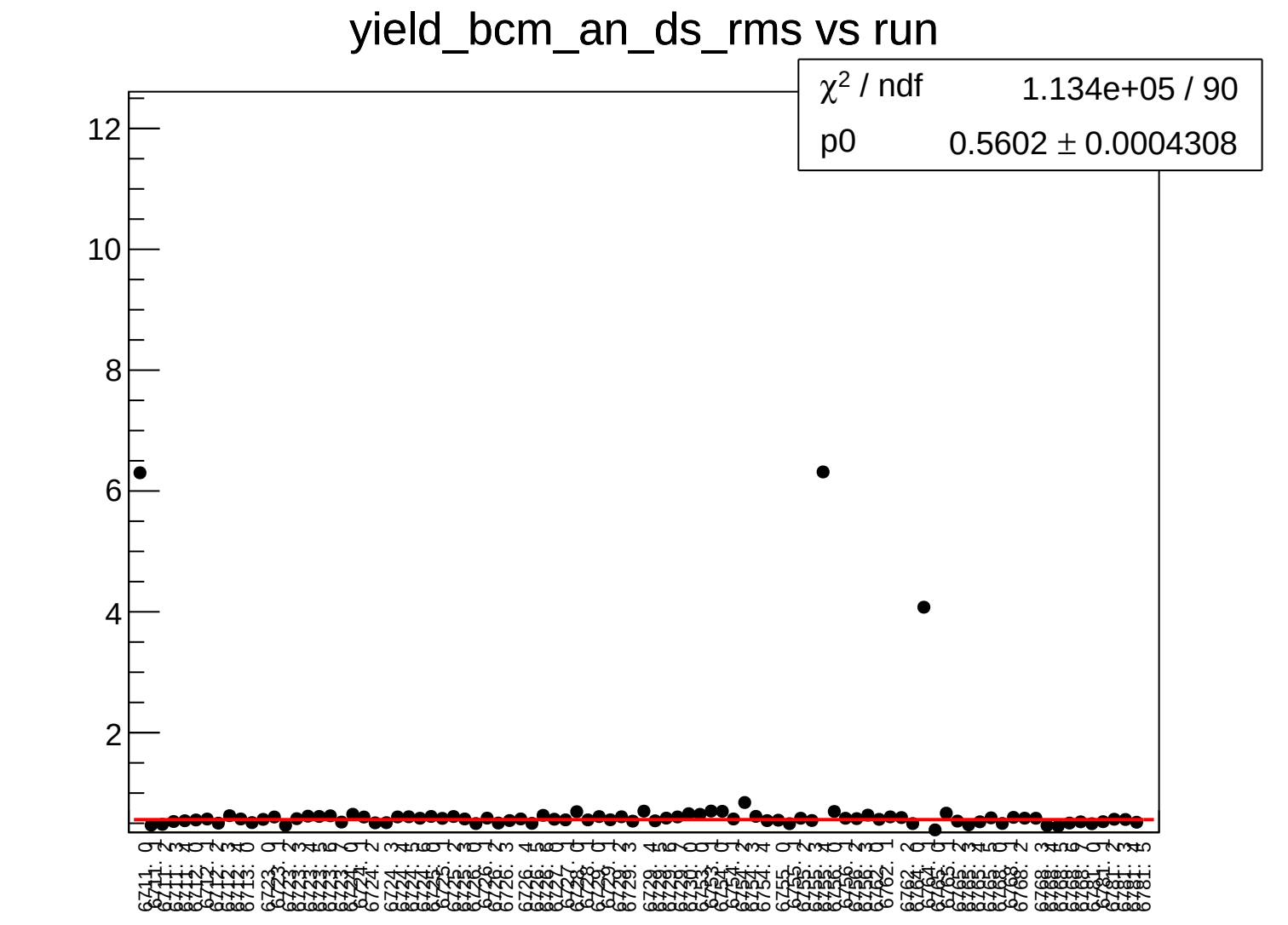

yield_bcm_an_diff_mean vs run
×10^3
χ² / ndf 6.039e+07 / 90
p0 −2.361e+04 ± 6.088
100
50
0
−50
−100
pull
Entries 91
Mean 14.1
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500

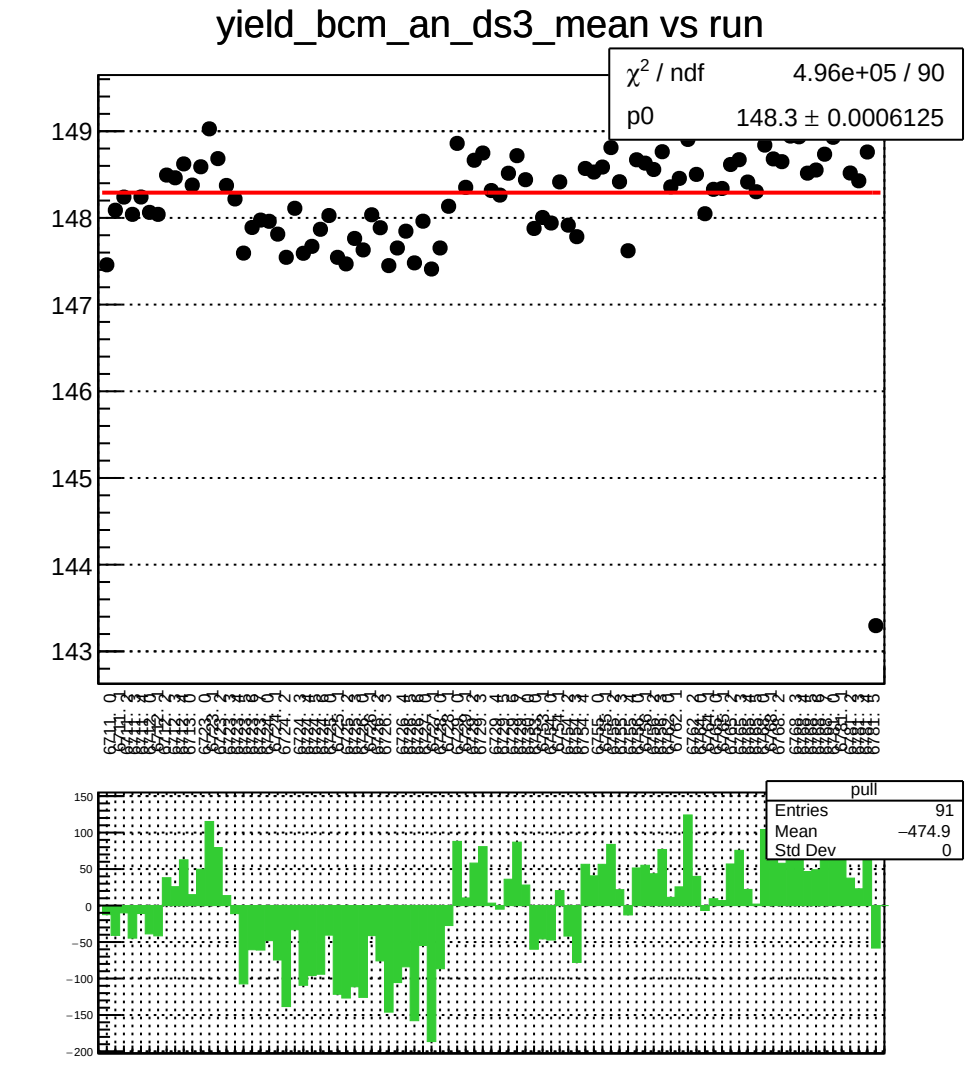

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

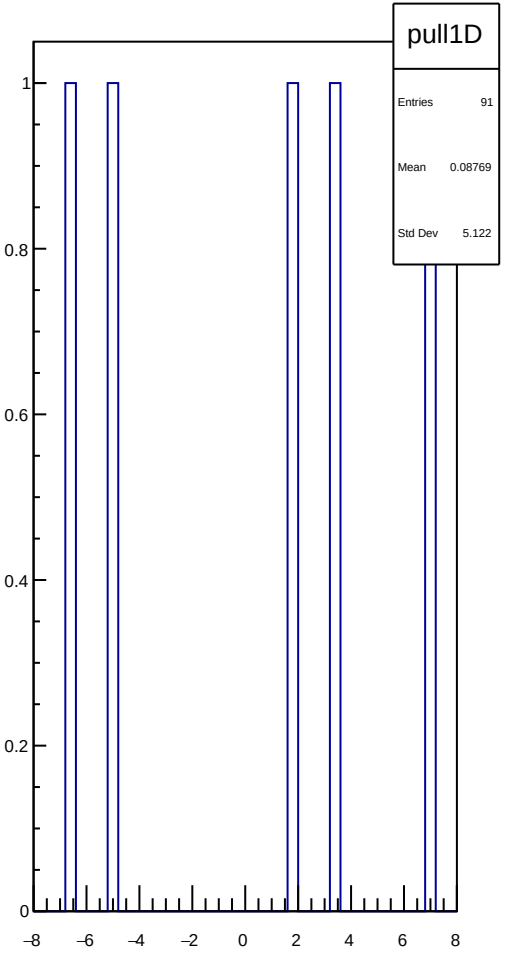

yield_bcm_an_diff_rms vs run
χ² / ndf 2.076e+05 / 90
p0 5440 ± 4.305
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

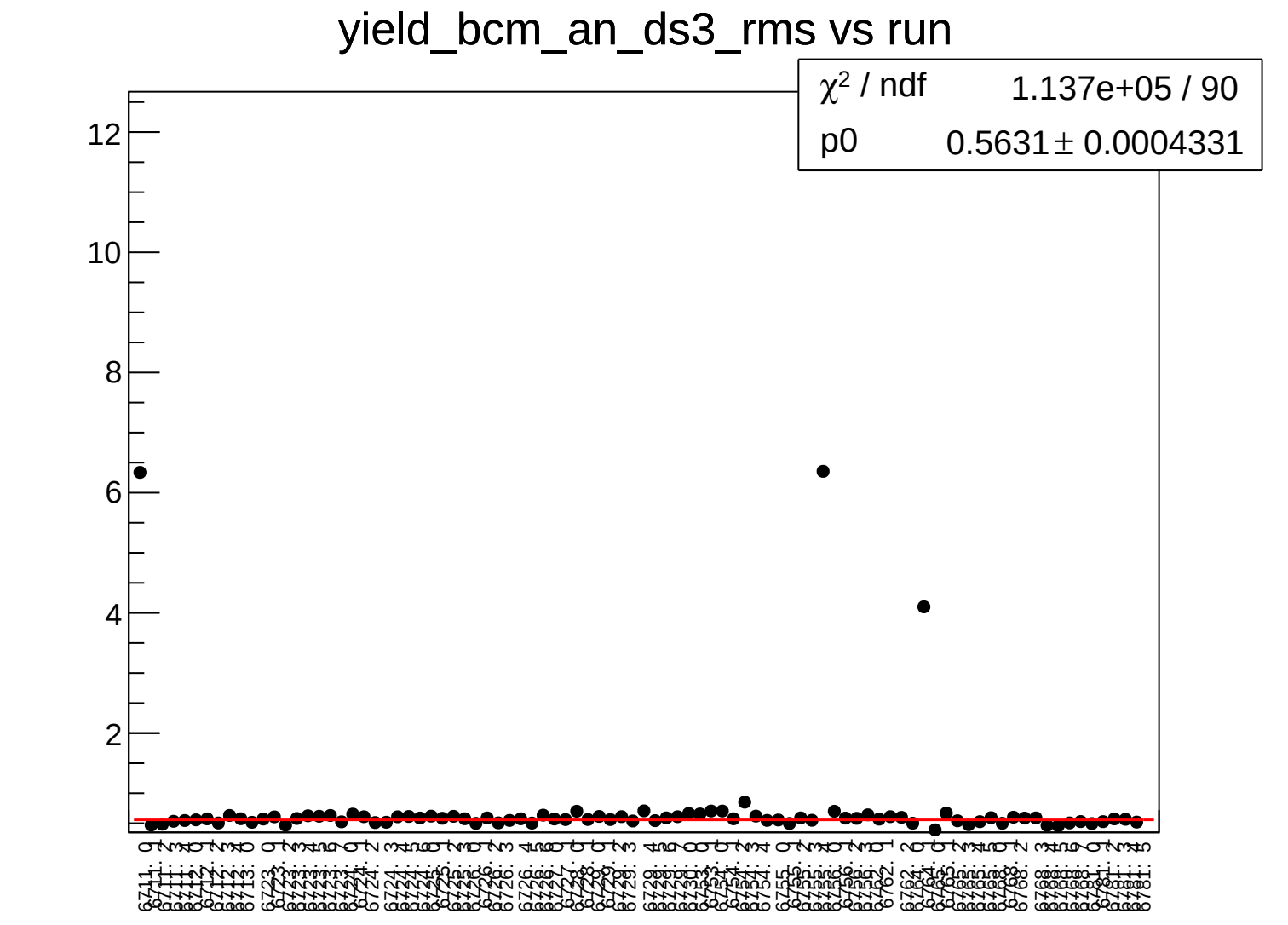

yield_bcm_an_ds_mean vs run
χ² / ndf 4.932e+05 / 90
p0 148.1± 0.0006092
149
148
147
146
145
144
143
pull
Entries 91
Mean −461.3
Std Dev 0
150
100
50
0
−50
−100
−150
−200

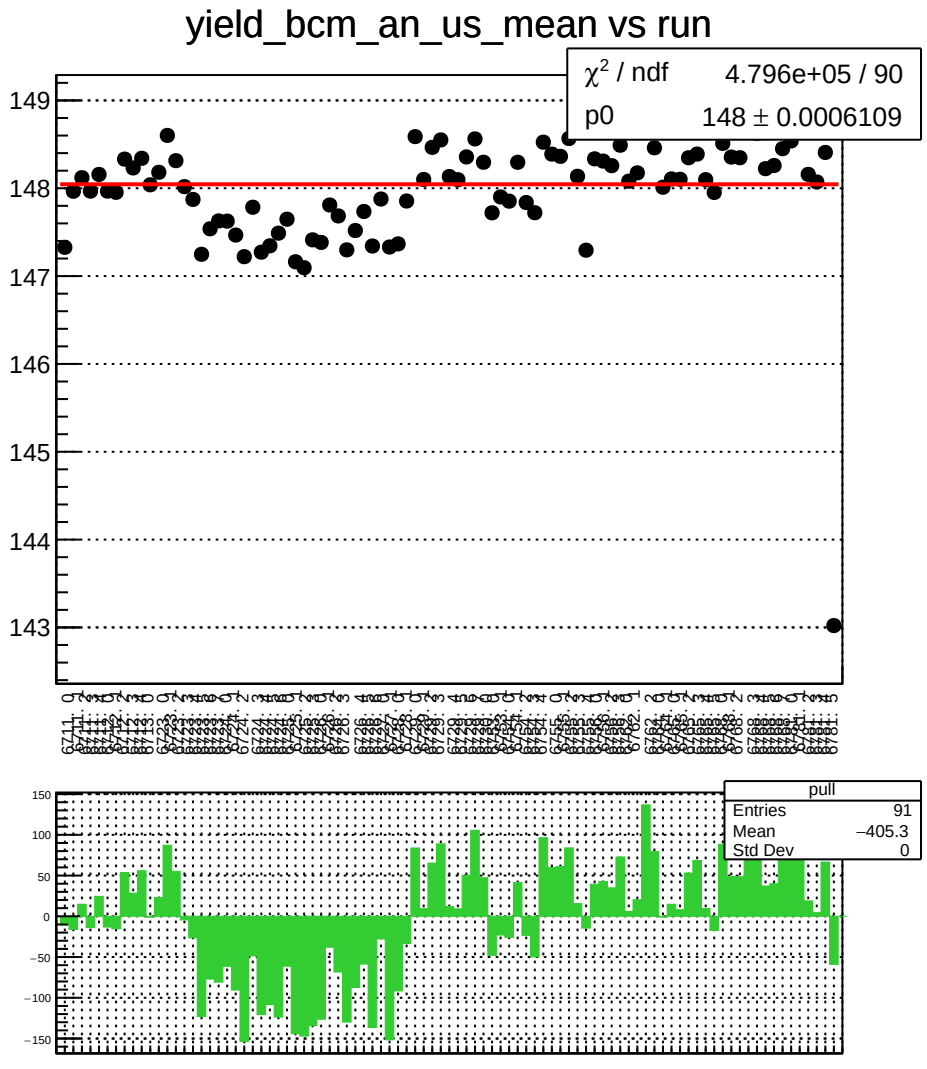

pull1D
Entries 91
Mean −0.4792
Std Dev 4.573
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

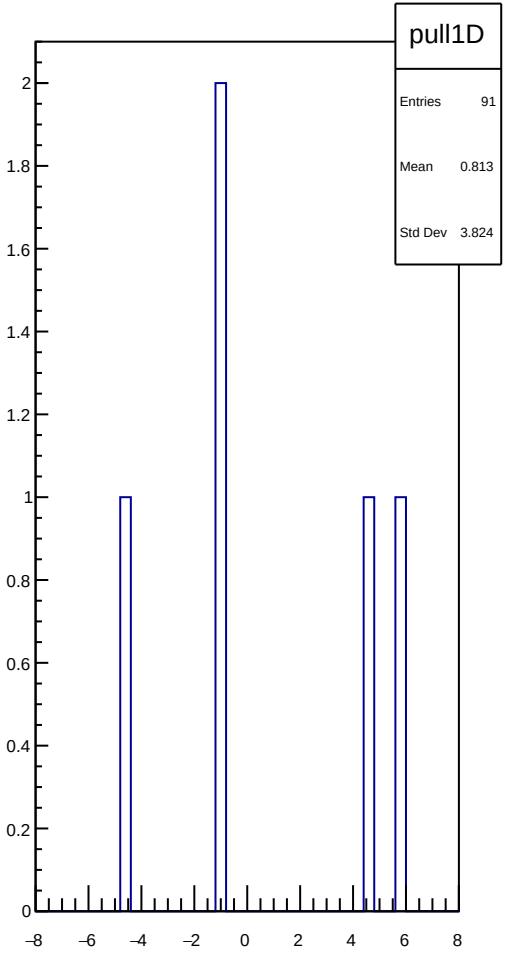

yield_bcm_an_ds_rms vs run
χ² / ndf 1.134e+05 / 90
p0 0.5602 ± 0.0004308
12
10
8
6
4
2

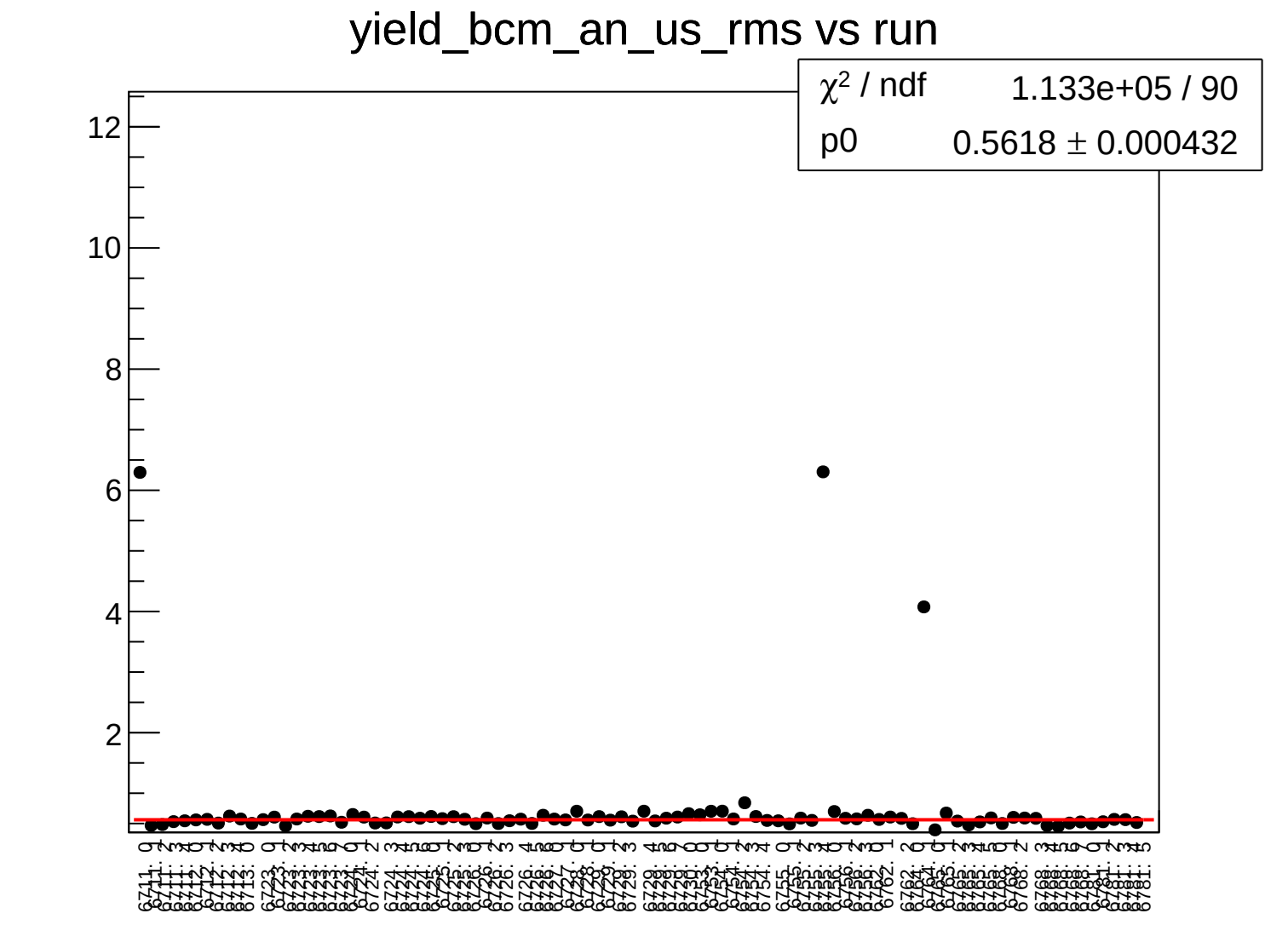

yield_bcm_an_ds3_mean vs run
χ² / ndf 4.96e+05 / 90
p0 148.3 ± 0.0006125
149
148
147
146
145
144
143
pull
Entries 91
Mean −474.9
Std Dev 0
150
100
50
0
−50
−100
−150
−200

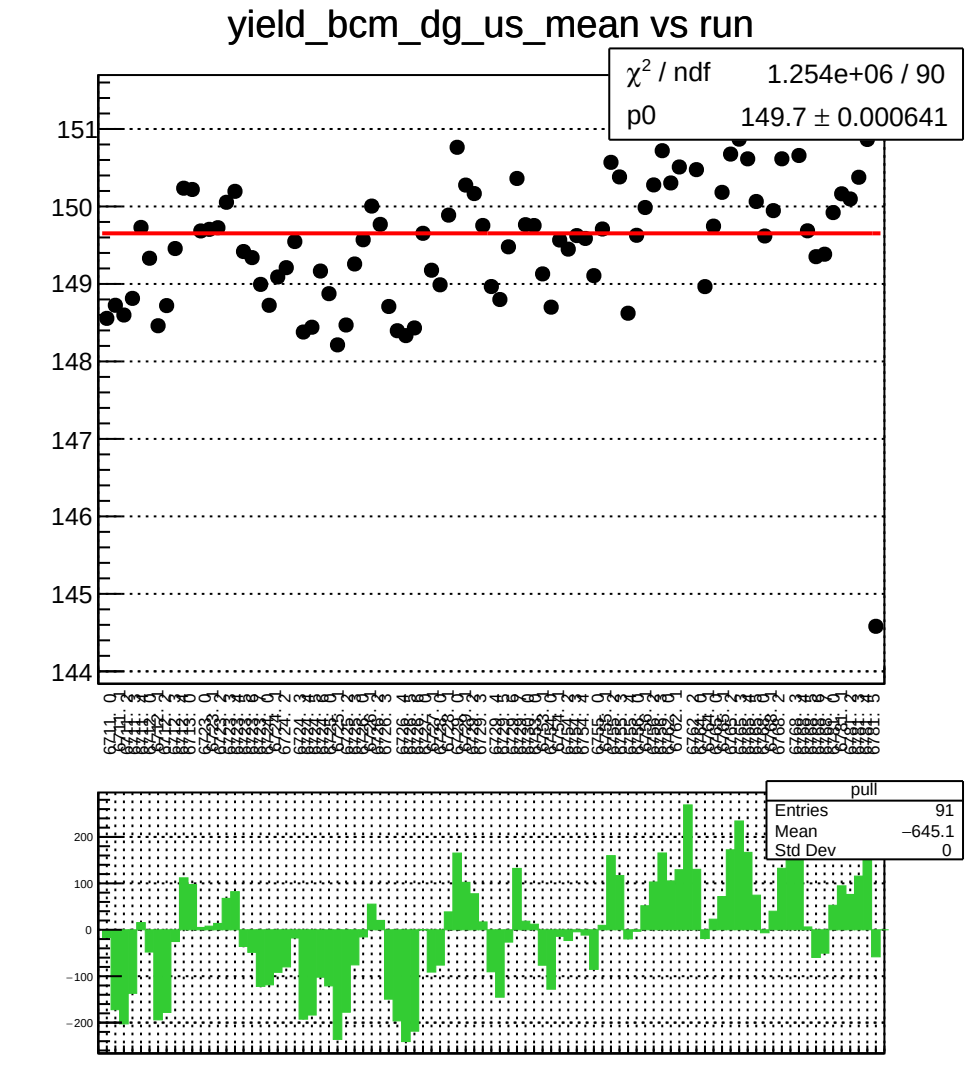

pull1D
Entries 91
Mean 0.08769
Std Dev 5.122
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

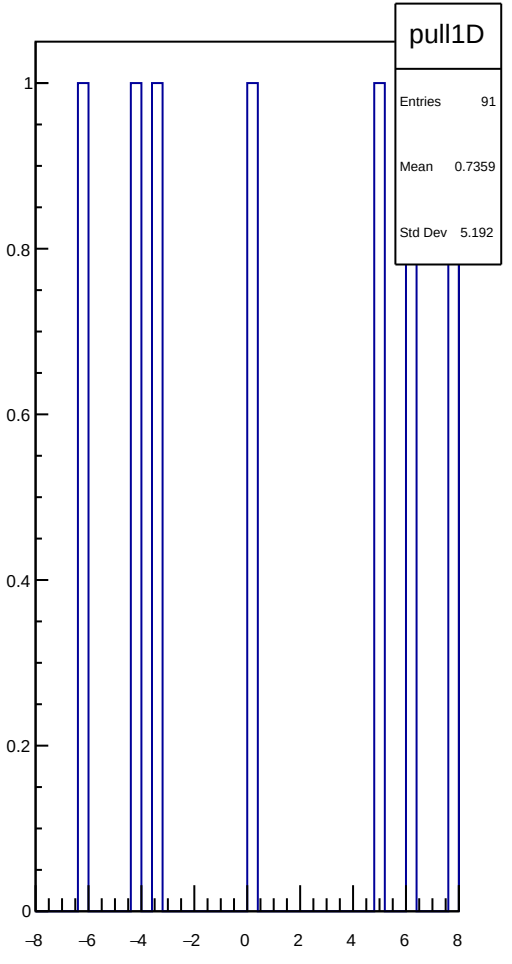

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.137e+05 / 90
p0 0.5631 ± 0.0004331
12
10
8
6
4
2

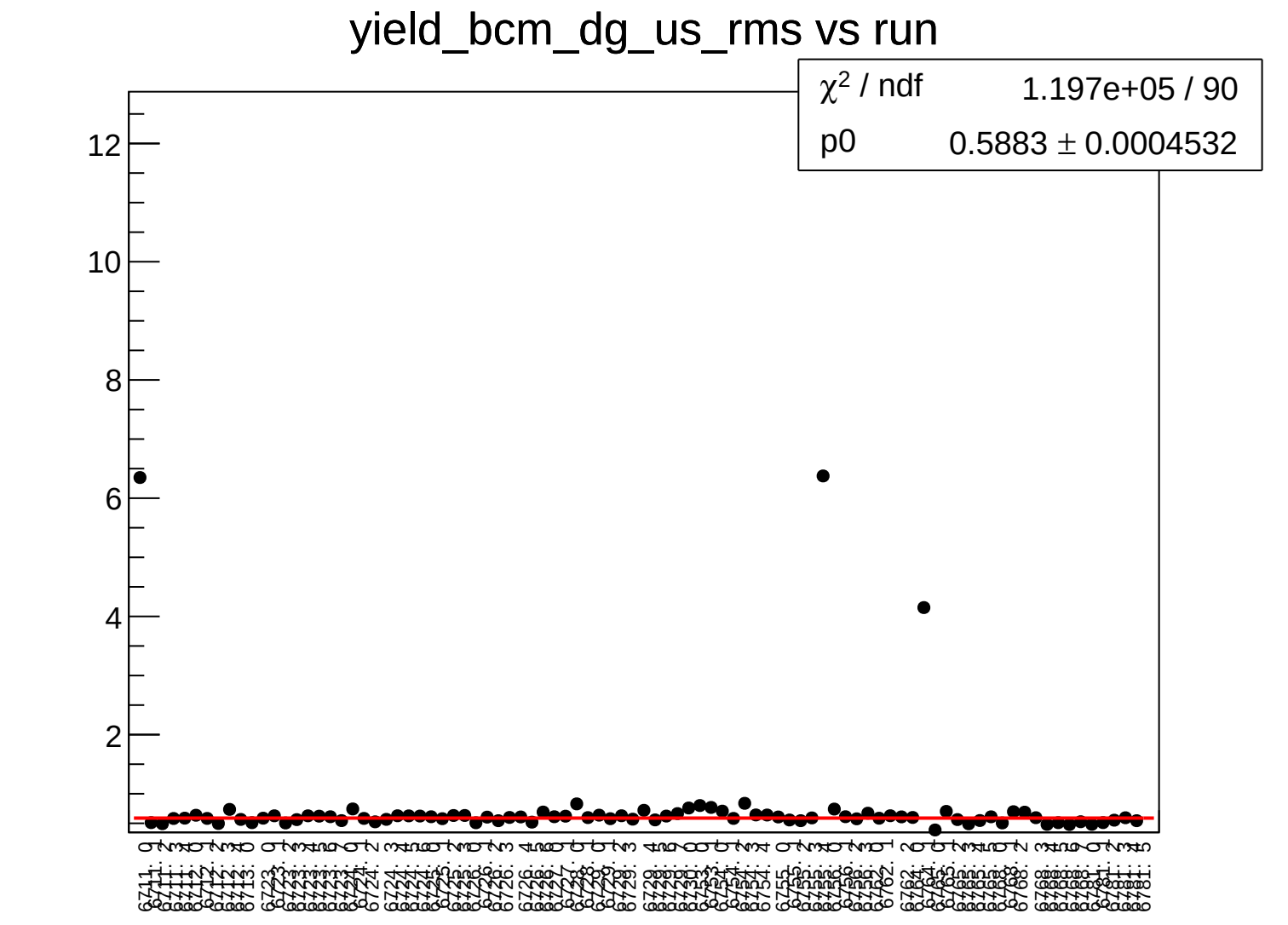

yield_bcm_an_us_mean vs run
χ² / ndf 4.796e+05 / 90
p0 148 ± 0.0006109
149
148
147
146
145
144
143
pull
Entries 91
Mean −405.3
Std Dev 0
150
100
50
0
−50
−100
−150

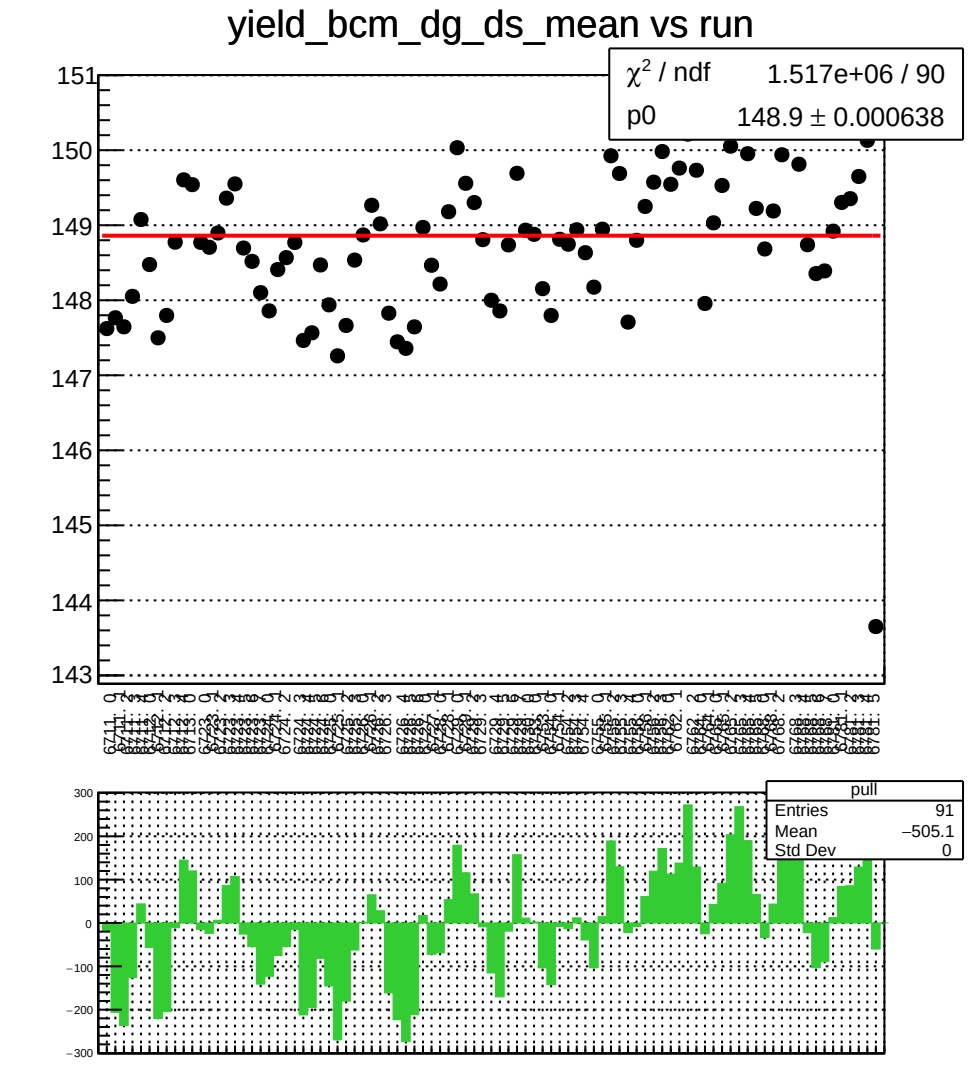

pull1D
Entries 91
Mean 0.813
Std Dev 3.824
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

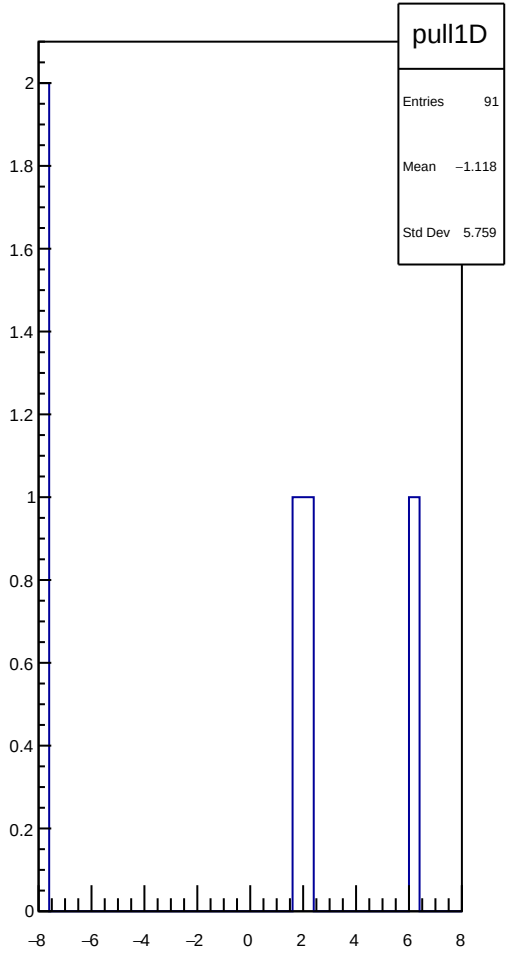

yield_bcm_an_us_rms vs run
χ² / ndf 1.133e+05 / 90
p0 0.5618 ± 0.000432
12
10
8
6
4
2

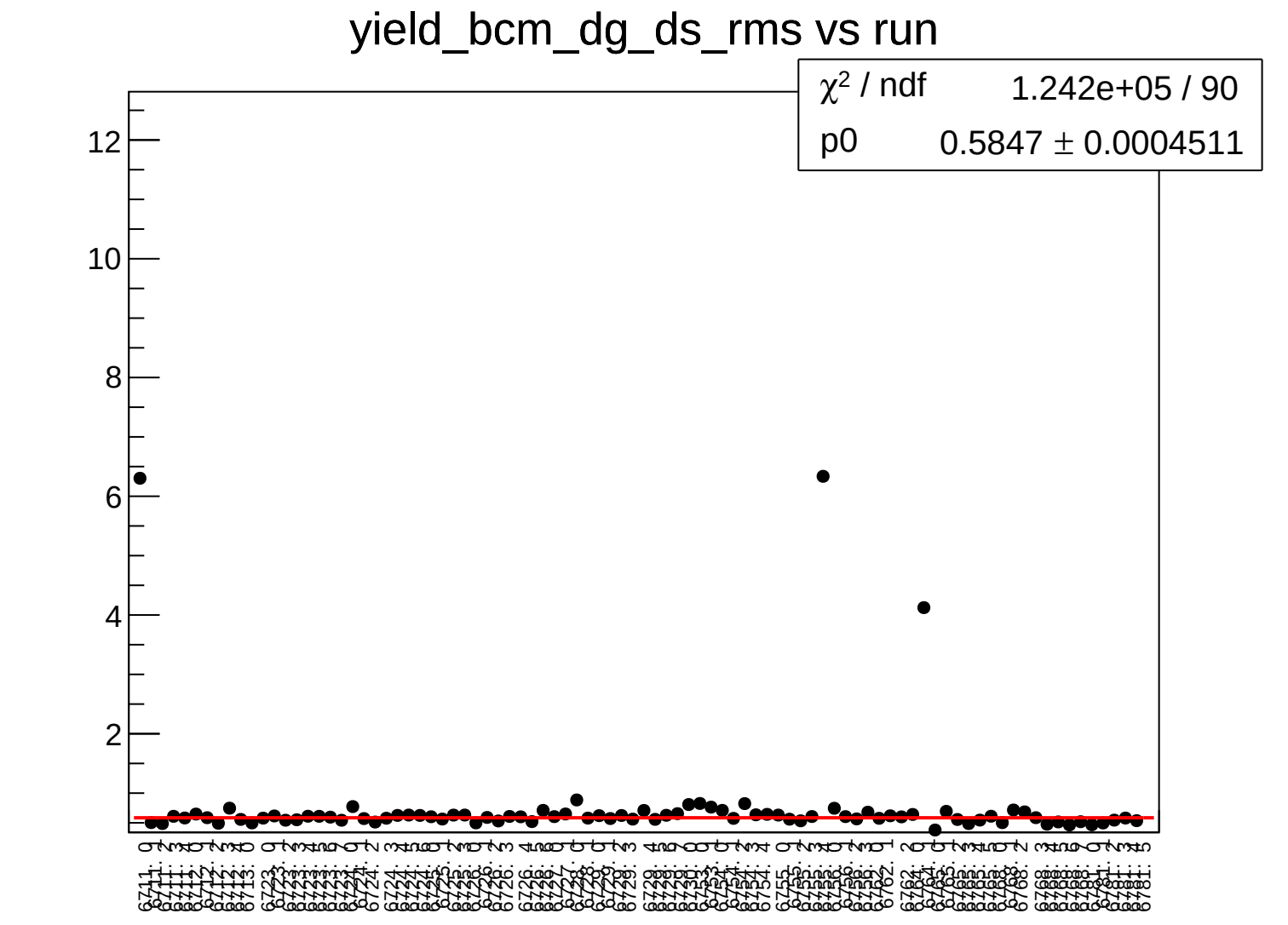

yield_bcm_dg_us_mean vs run
χ² / ndf 1.254e+06 / 90
p0 149.7 ± 0.000641
151
150
149
148
147
146
145
144
pull
Entries 91
Mean −645.1
Std Dev 0
200
100
0
−100
−200

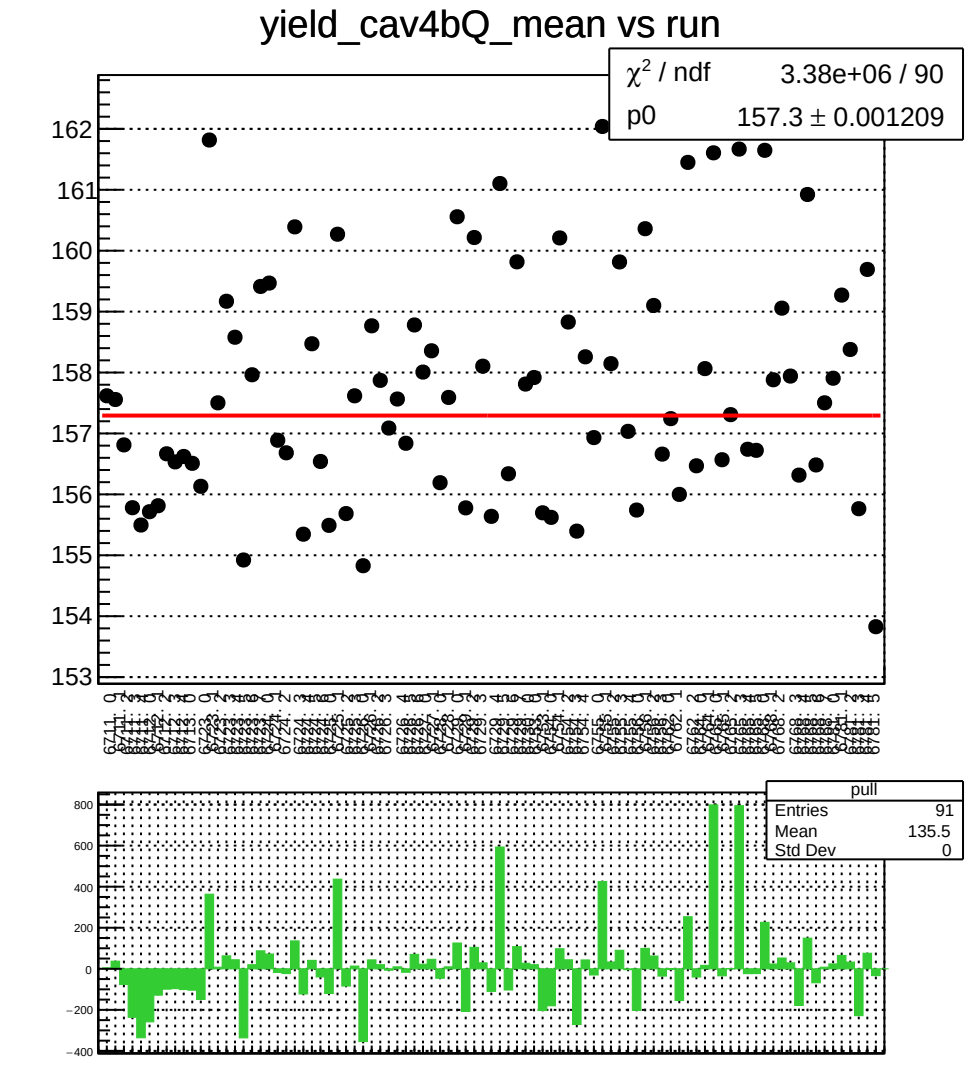

pull1D
Entries 91
Mean 0.7359
Std Dev 5.192
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

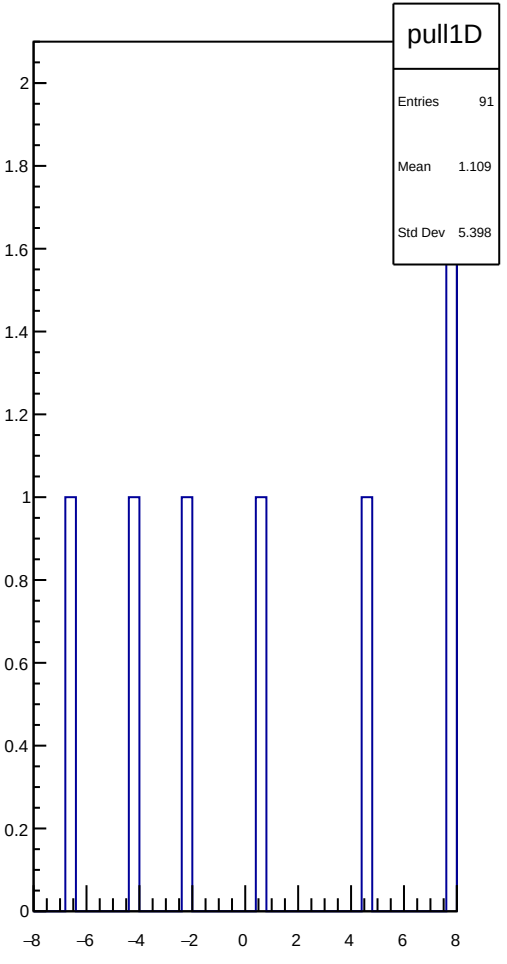

yield_bcm_dg_us_rms vs run
χ² / ndf 1.197e+05 / 90
p0 0.5883 ± 0.0004532
12
10
8
6
4
2

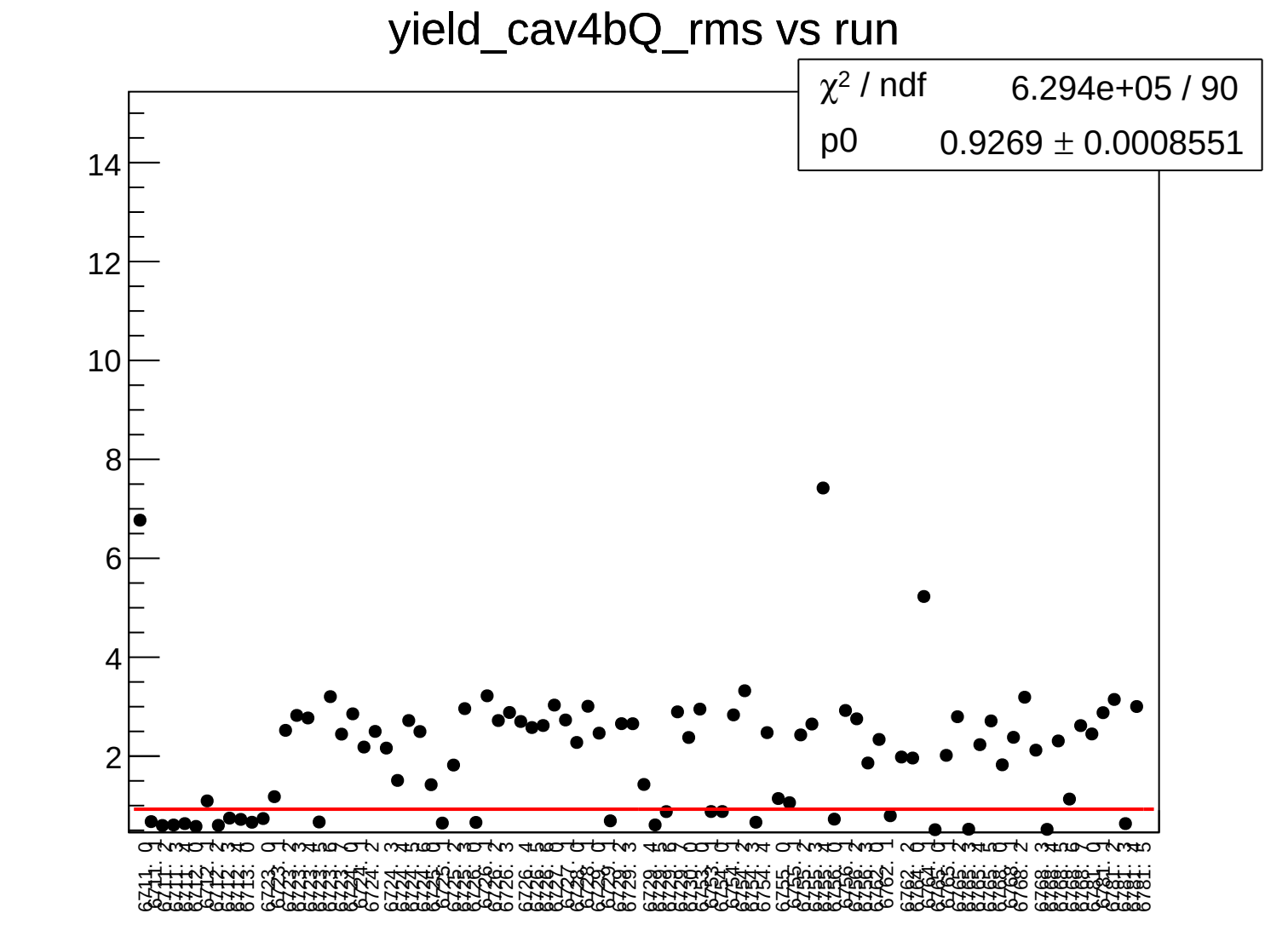

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.517e+06 / 90
p0 148.9 ± 0.000638
pull
Entries 91
Mean −505.1
Std Dev 0

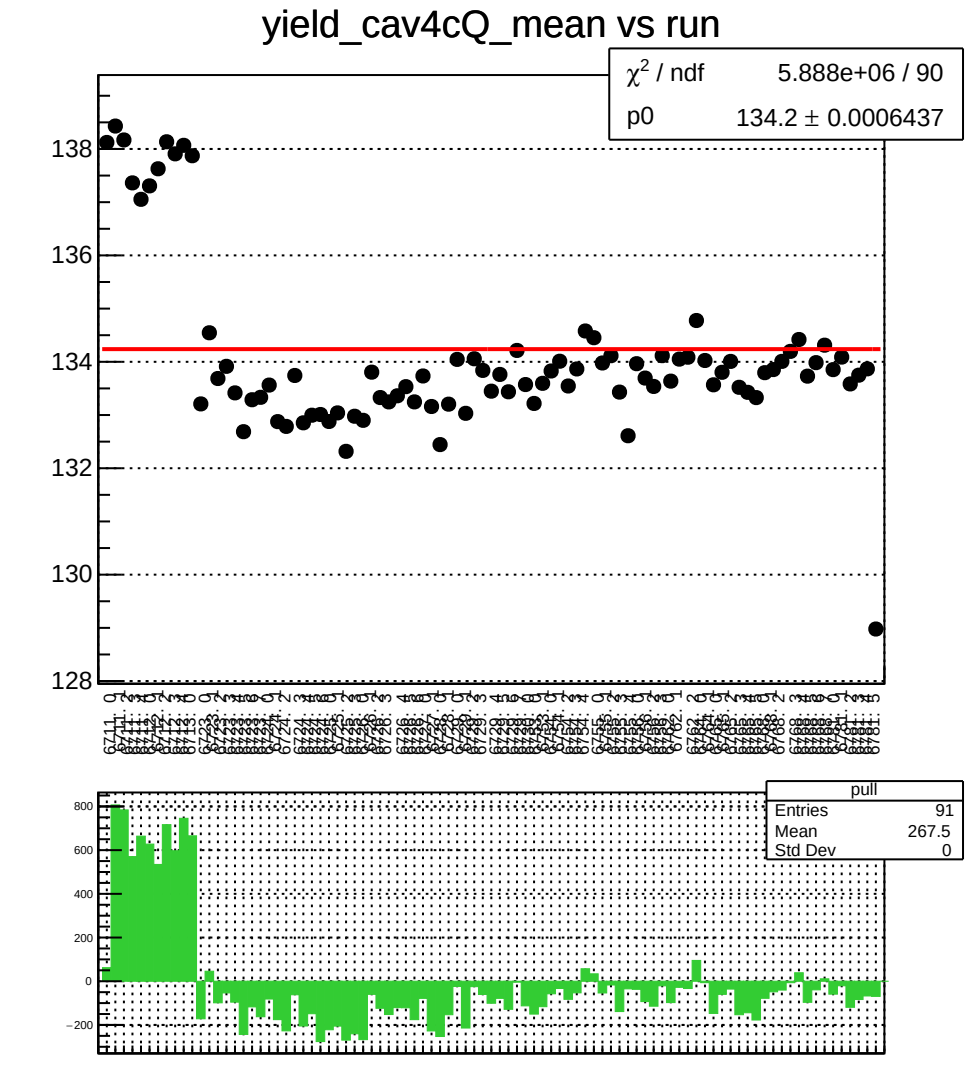

pull1D
Entries 91
Mean −1.118
Std Dev 5.759

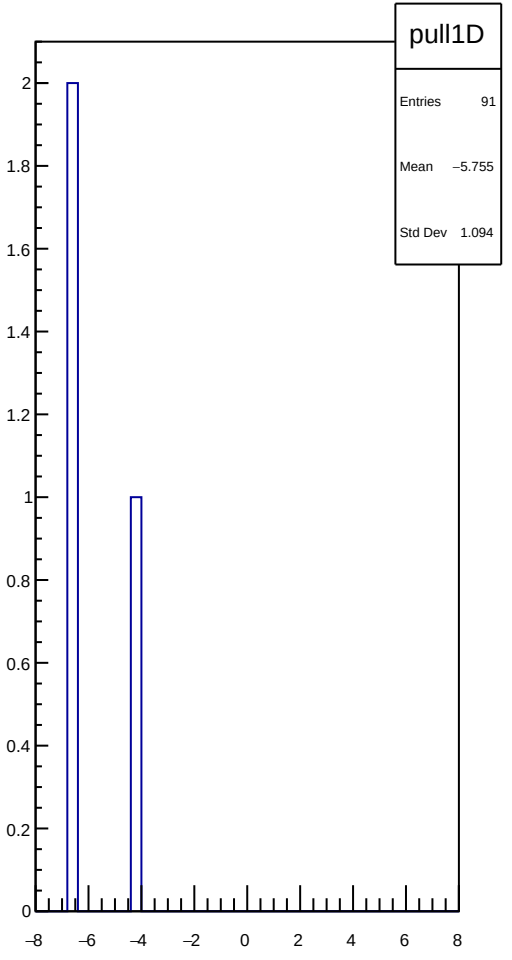

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.242e+05 / 90
p0 0.5847 ± 0.0004511
12
10
8
6
4
2

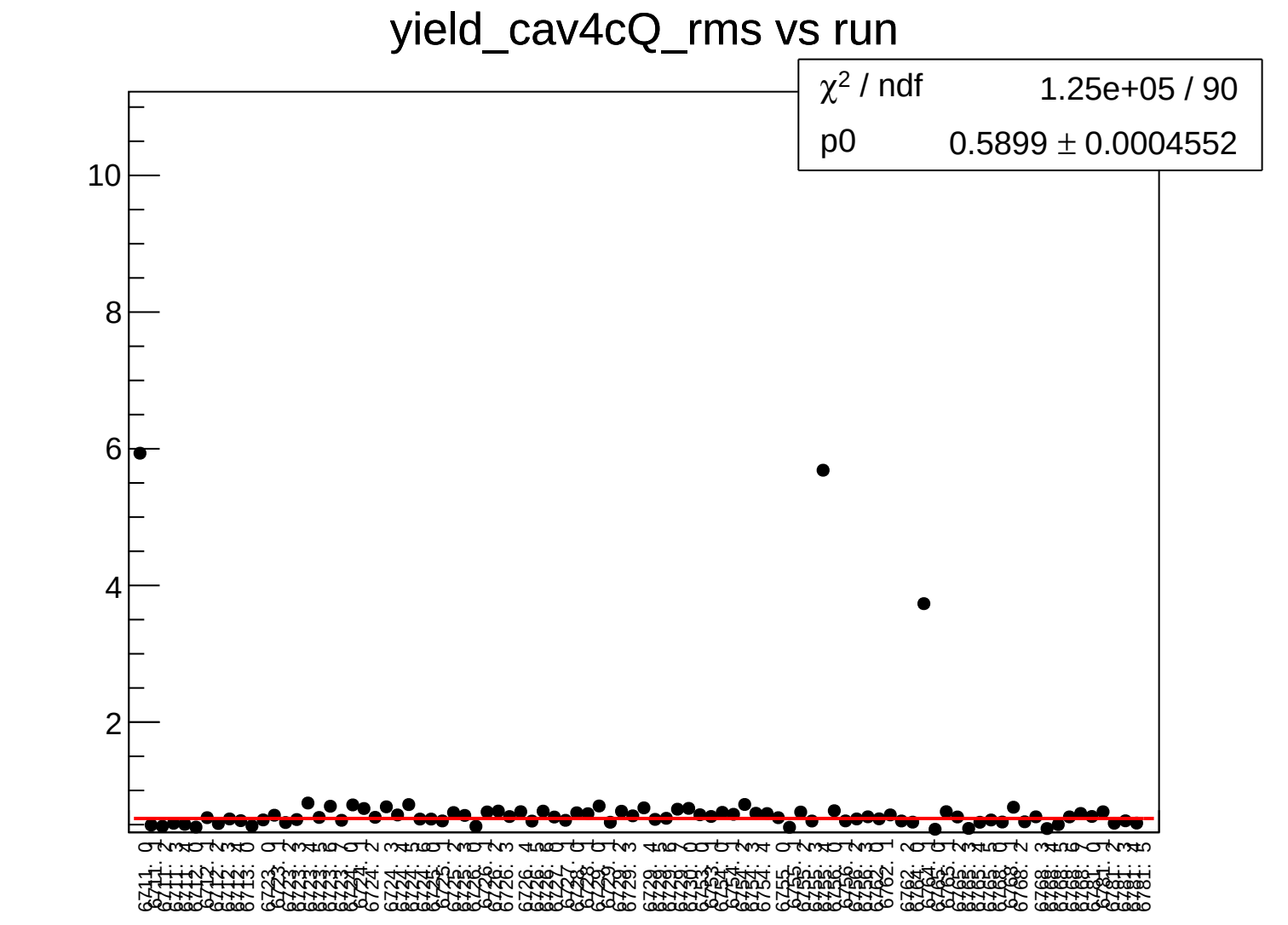

yield_cav4bQ_mean vs run
χ² / ndf 3.38e+06 / 90
p0 157.3 ± 0.001209
pull
Entries 91
Mean 135.5
Std Dev 0

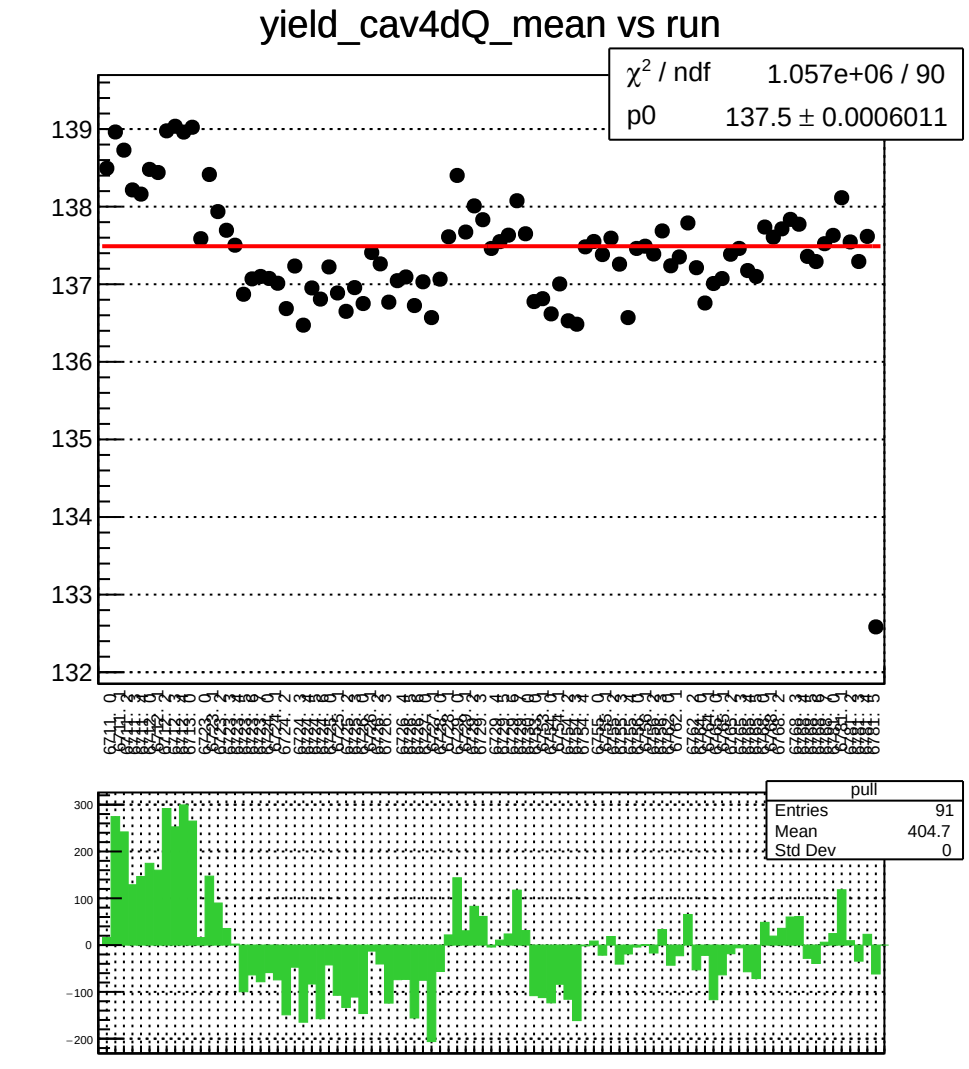

pull1D
Entries 91
Mean 1.109
Std Dev 5.398

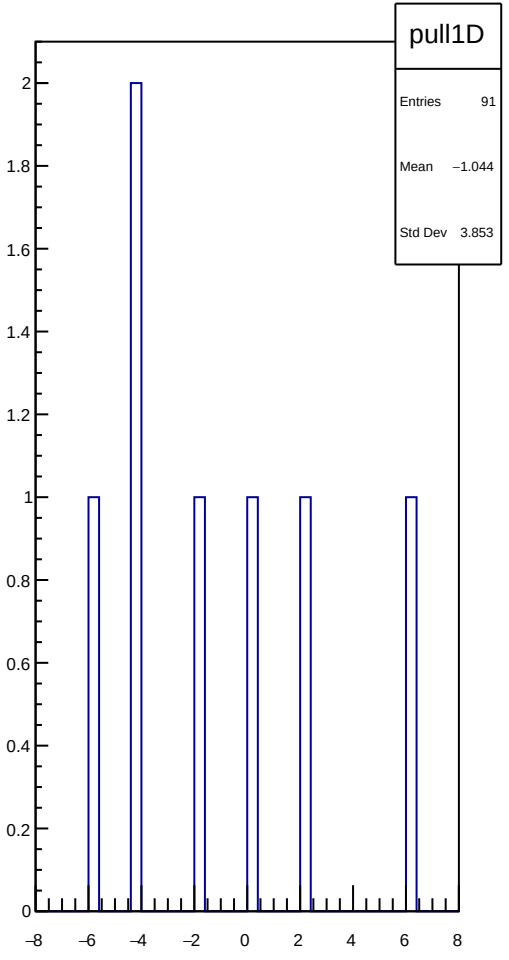

yield_cav4bQ_rms vs run
χ² / ndf 6.294e+05 / 90
p0 0.9269 ± 0.0008551
14
12
10
8
6
4
2

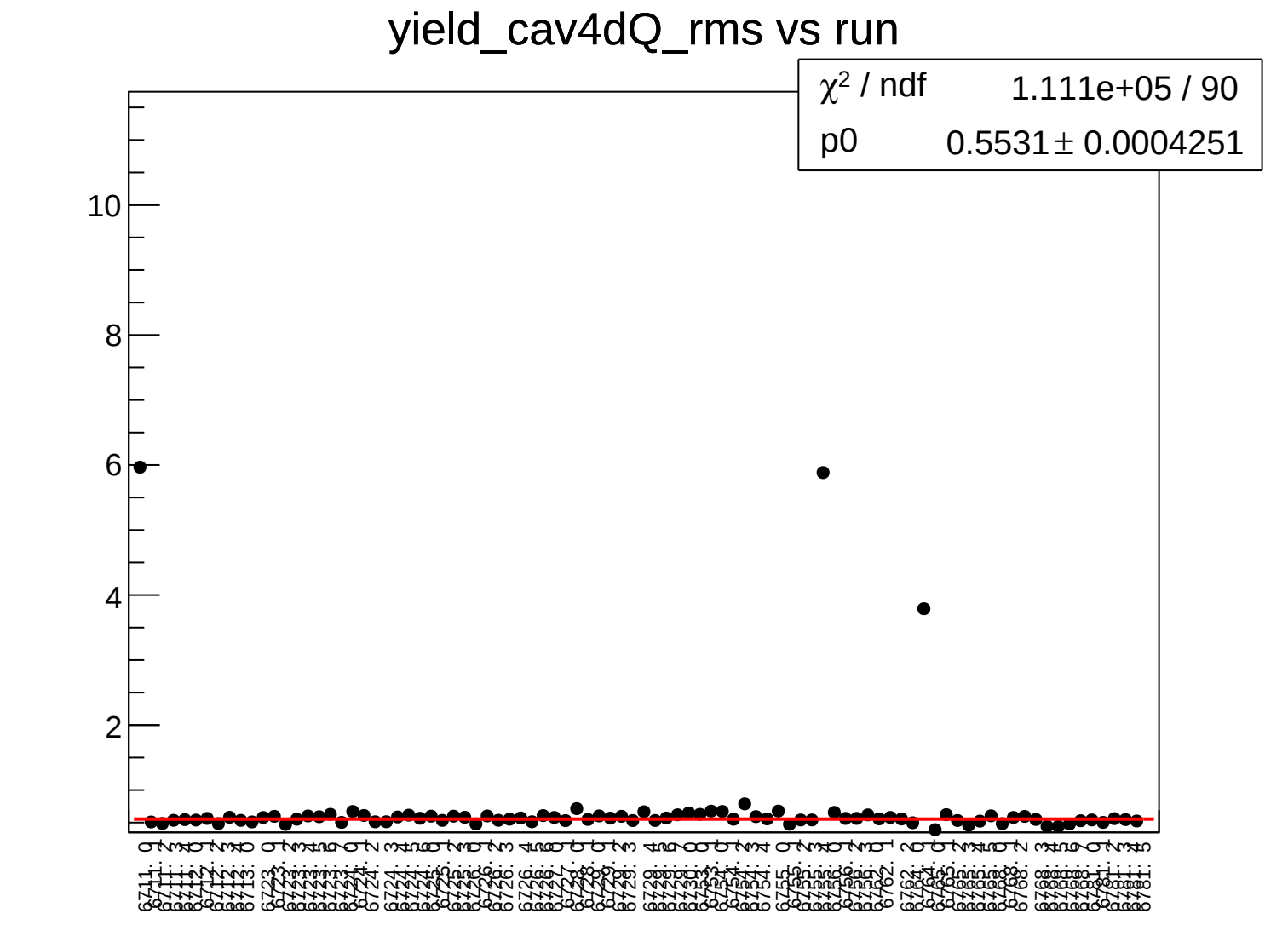

yield_cav4cQ_mean vs run
χ² / ndf 5.888e+06 / 90
p0 134.2 ± 0.0006437
138
136
134
132
130
128
pull
Entries 91
Mean 267.5
Std Dev 0
800
600
400
200
0
−200

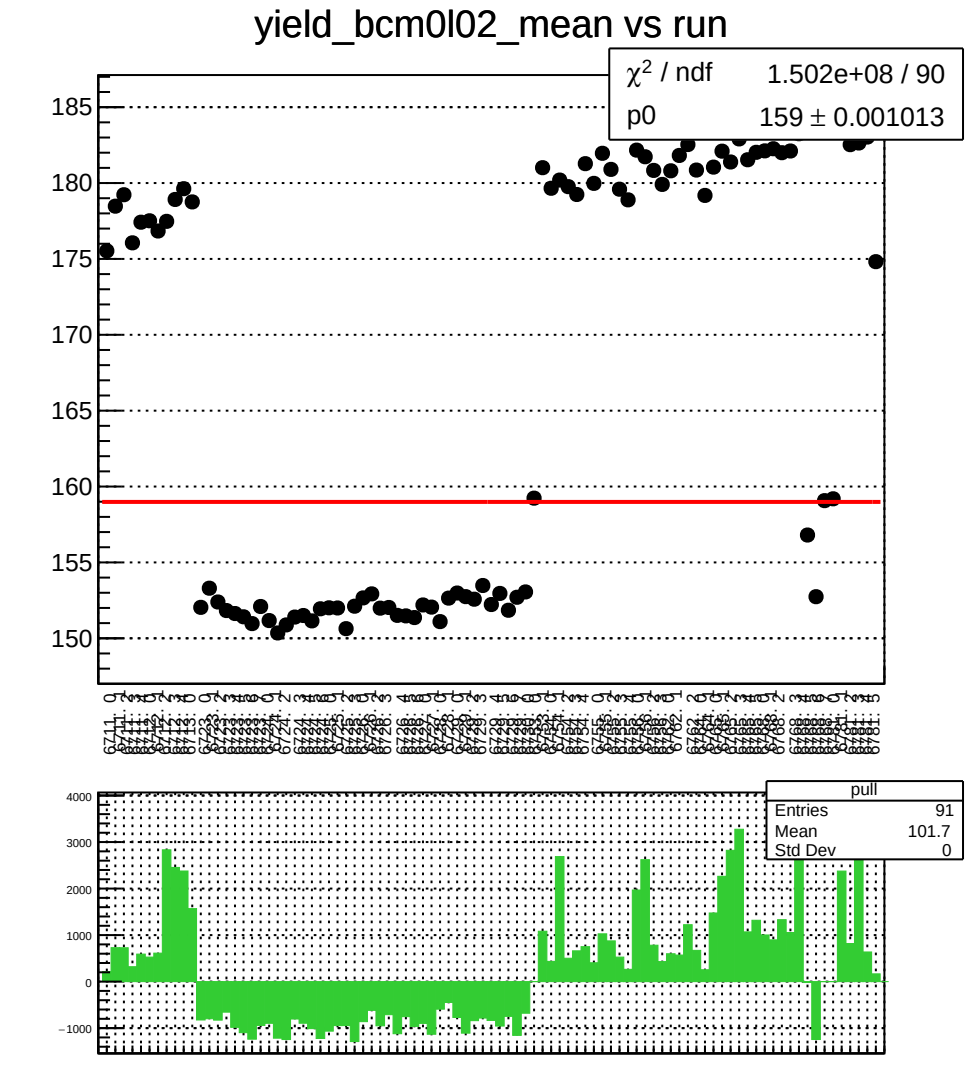

pull1D
Entries 91
Mean −5.755
Std Dev 1.094
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

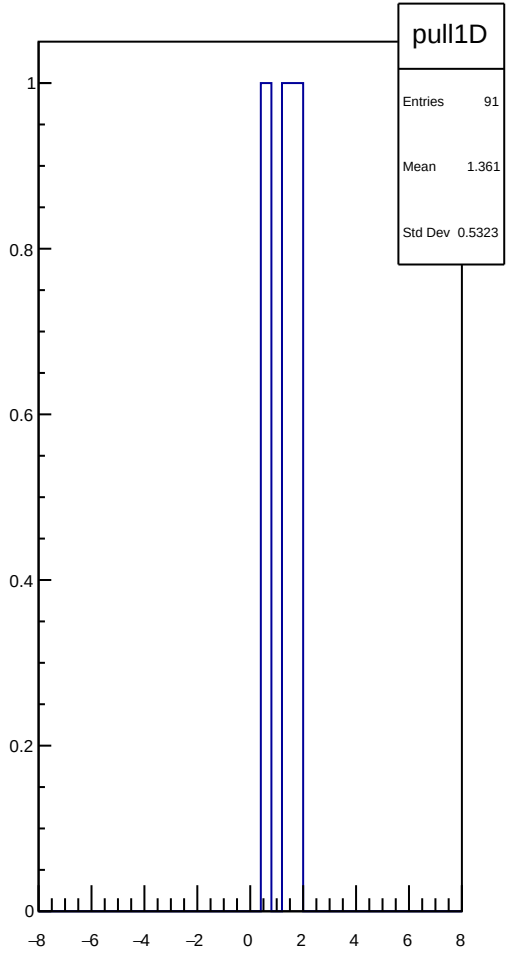

yield_cav4cQ_rms vs run
χ² / ndf 1.25e+05 / 90
p0 0.5899 ± 0.0004552
10
8
6
4
2


yield_cav4dQ_mean vs run
χ² / ndf 1.057e+06 / 90
p0 137.5 ± 0.0006011
pull
Entries 91
Mean 404.7
Std Dev 0

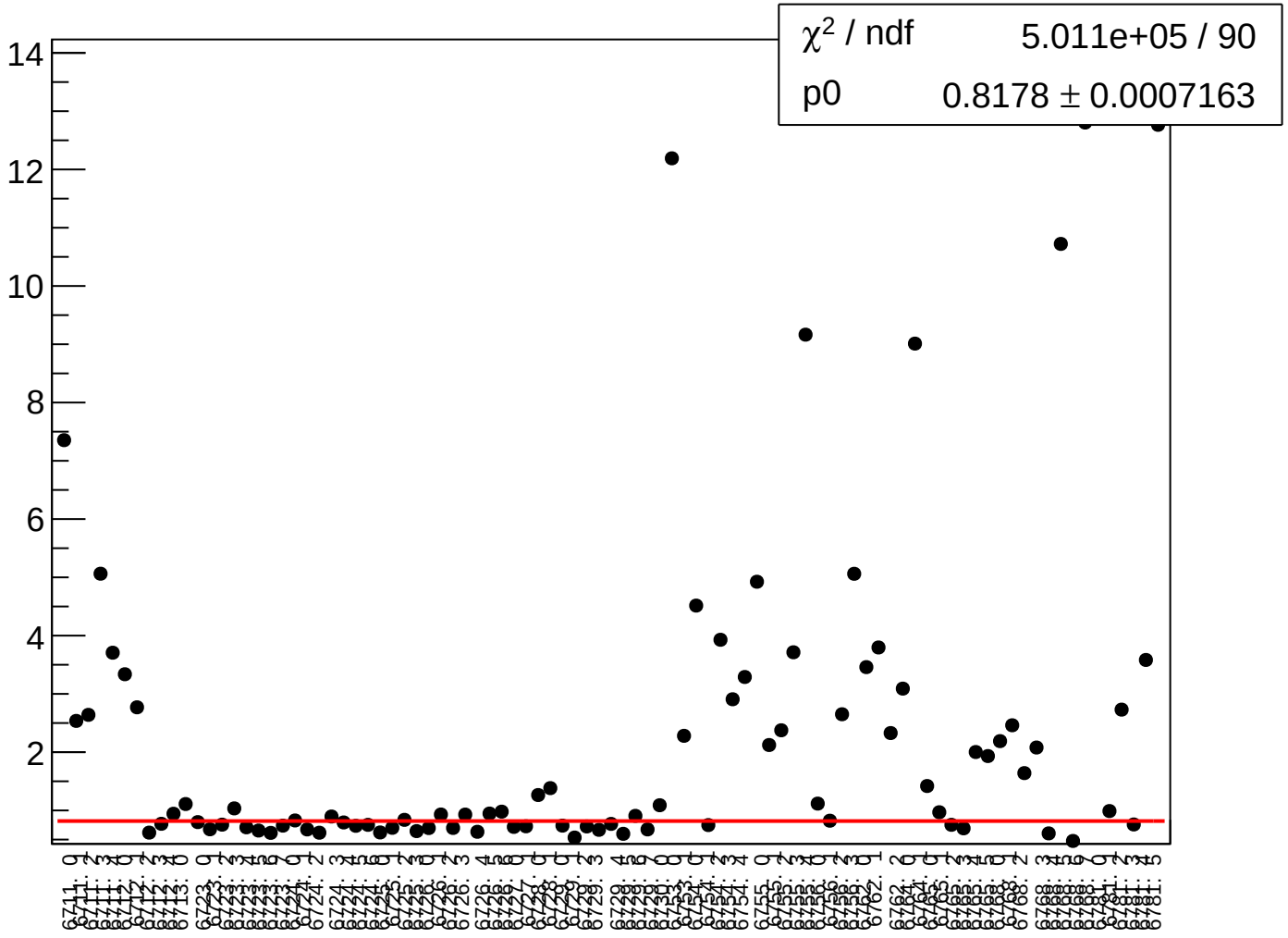

pull1D
Entries 91
Mean −1.044
Std Dev 3.853

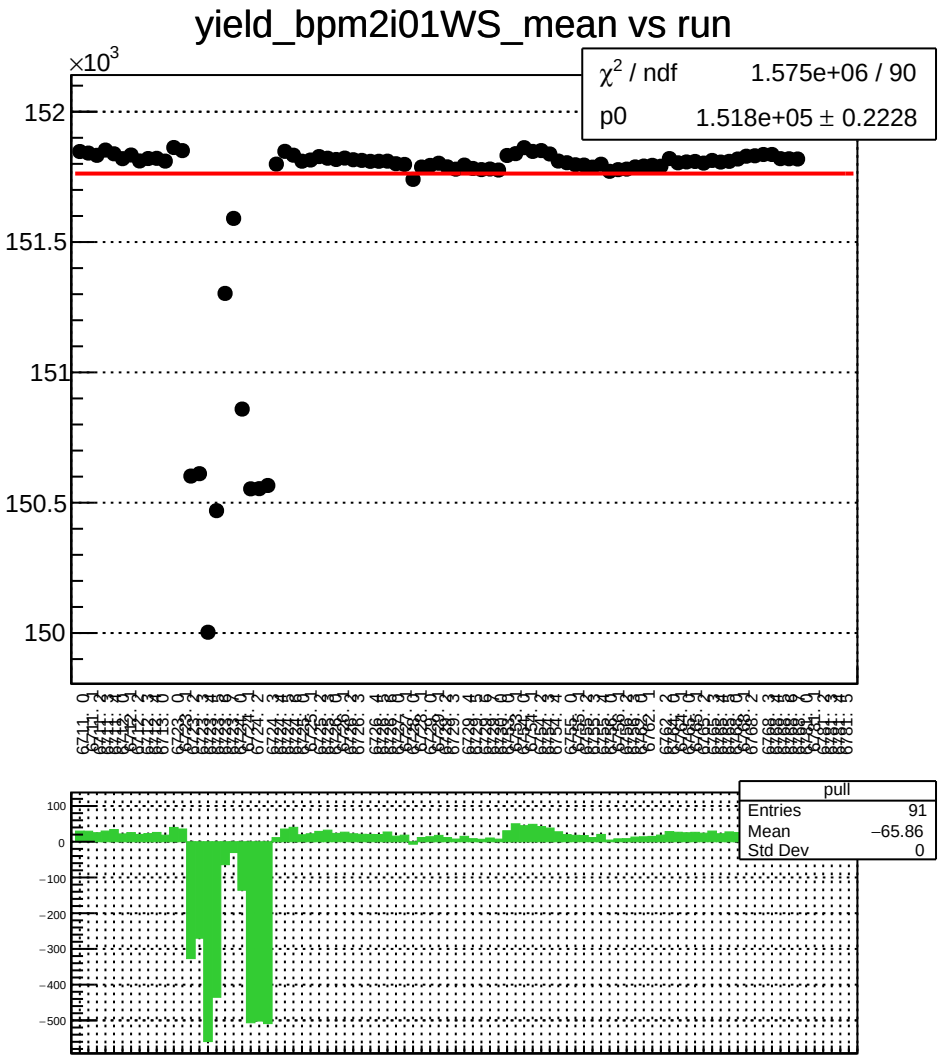

yield_cav4dQ_rms vs run
χ² / ndf 1.111e+05 / 90
p0 0.5531 ± 0.0004251
10
8
6
4
2

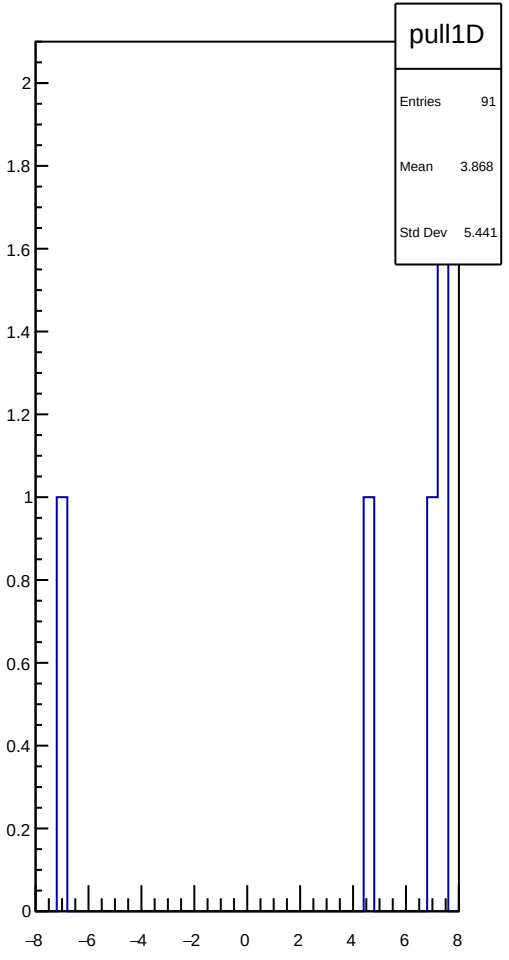

yield_bcm0l02_mean vs run
χ² / ndf 1.502e+08 / 90
p0 159 ± 0.001013
185
180
175
170
165
160
155
150
pull
Entries 91
Mean 101.7
Std Dev 0
4000
3000
2000
1000
0
−1000

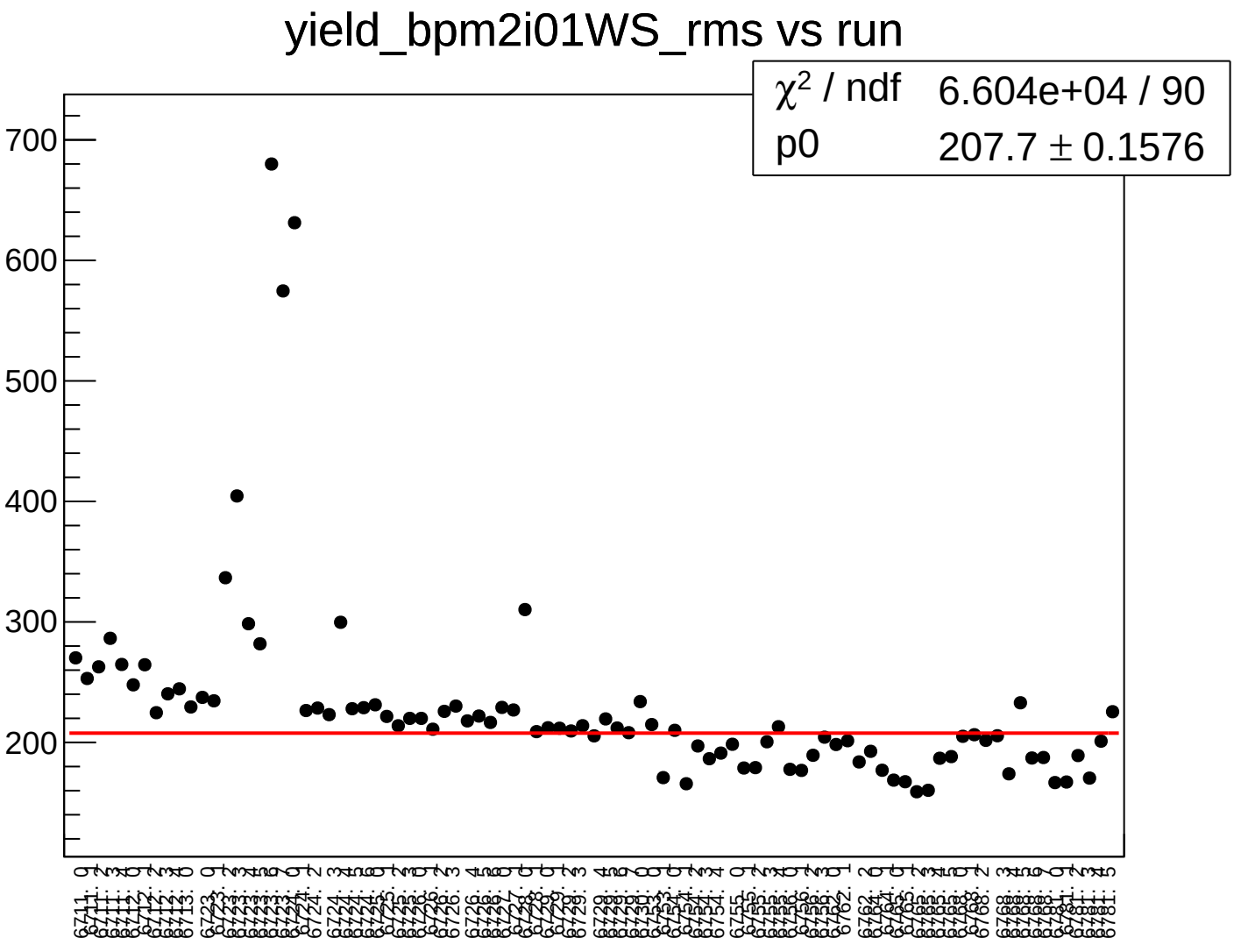

pull1D
Entries 91
Mean 1.361
Std Dev 0.5323
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

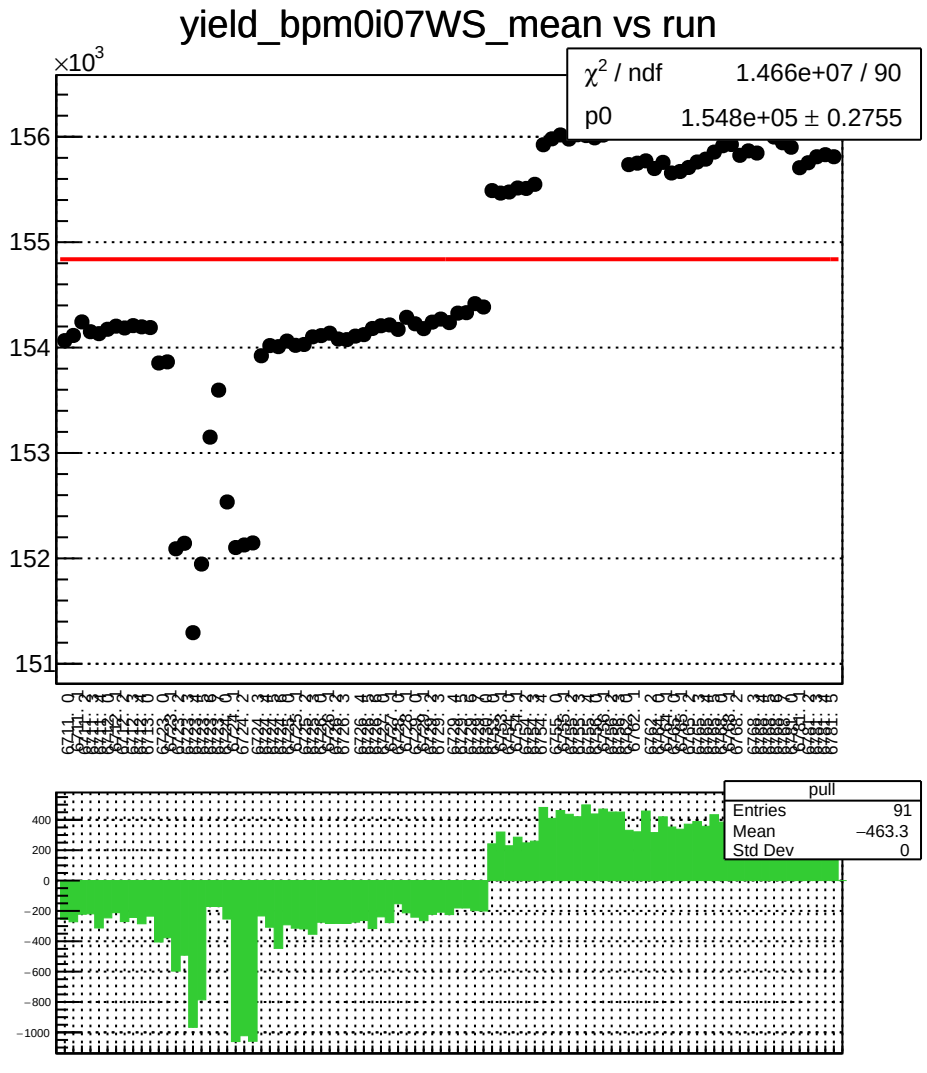
yield_bcm0l02_rms vs run

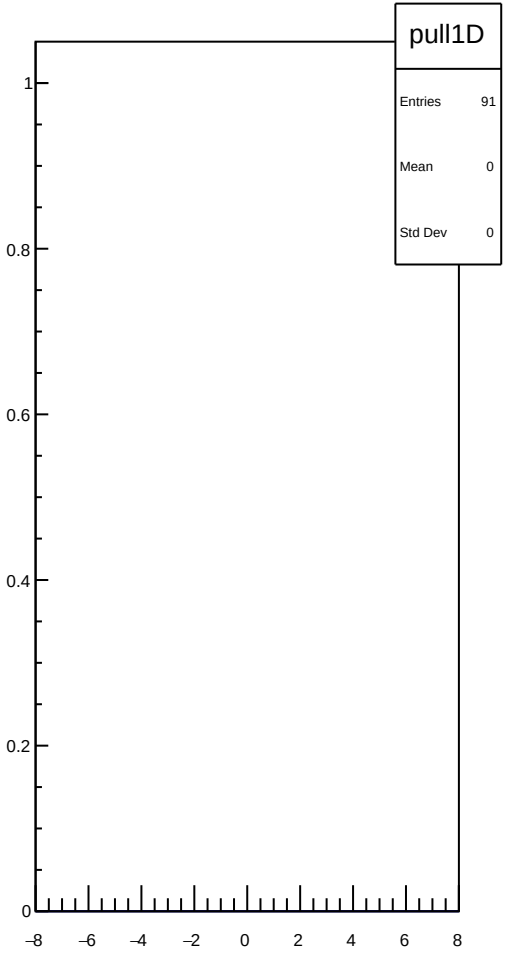


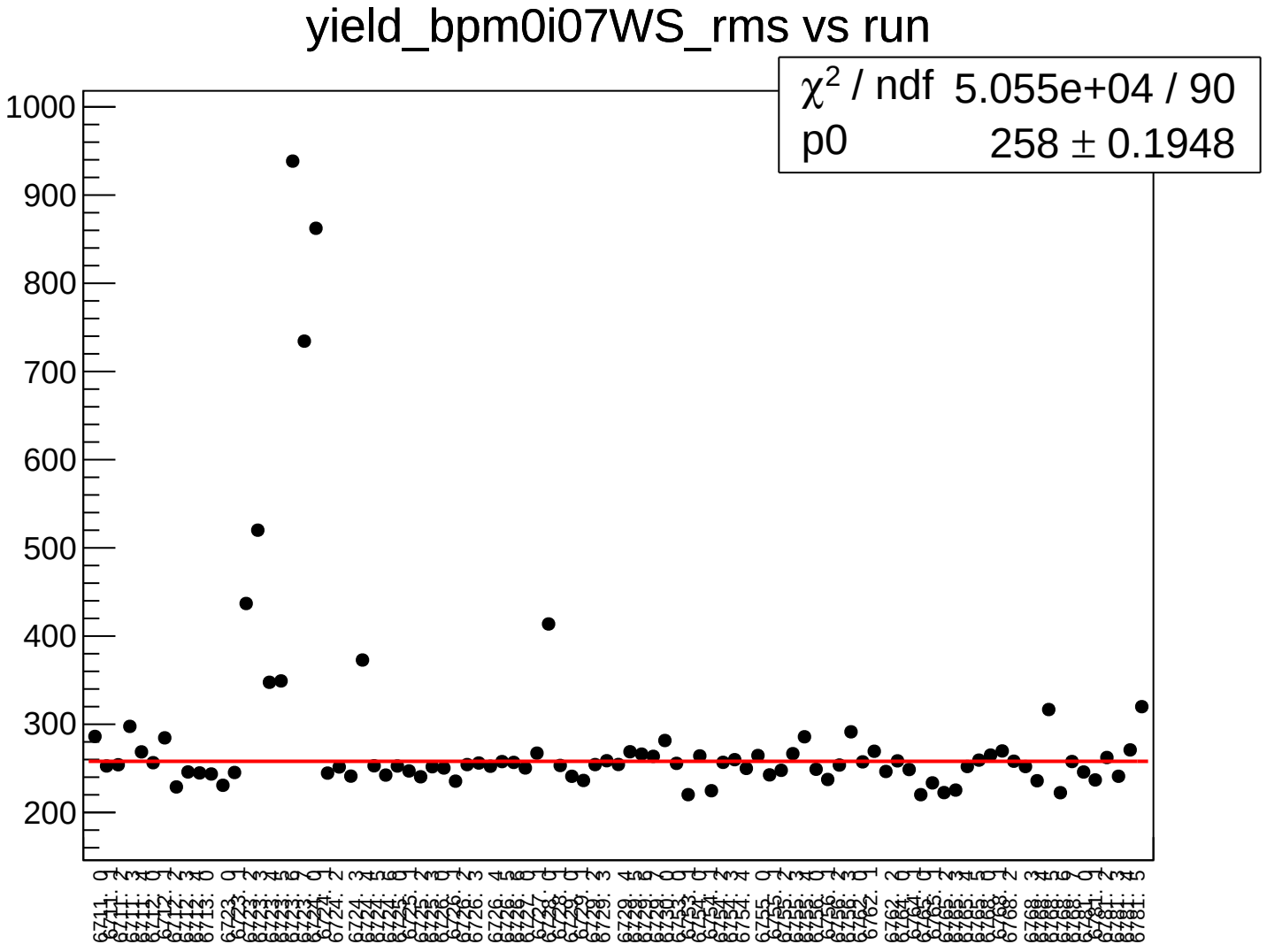

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.575e+06 / 90
p0 1.518e+05 ± 0.2228
152
151.5
151
150.5
150
pull
Entries 91
Mean −65.86
Std Dev 0
100
0
−100
−200
−300
−400
−500

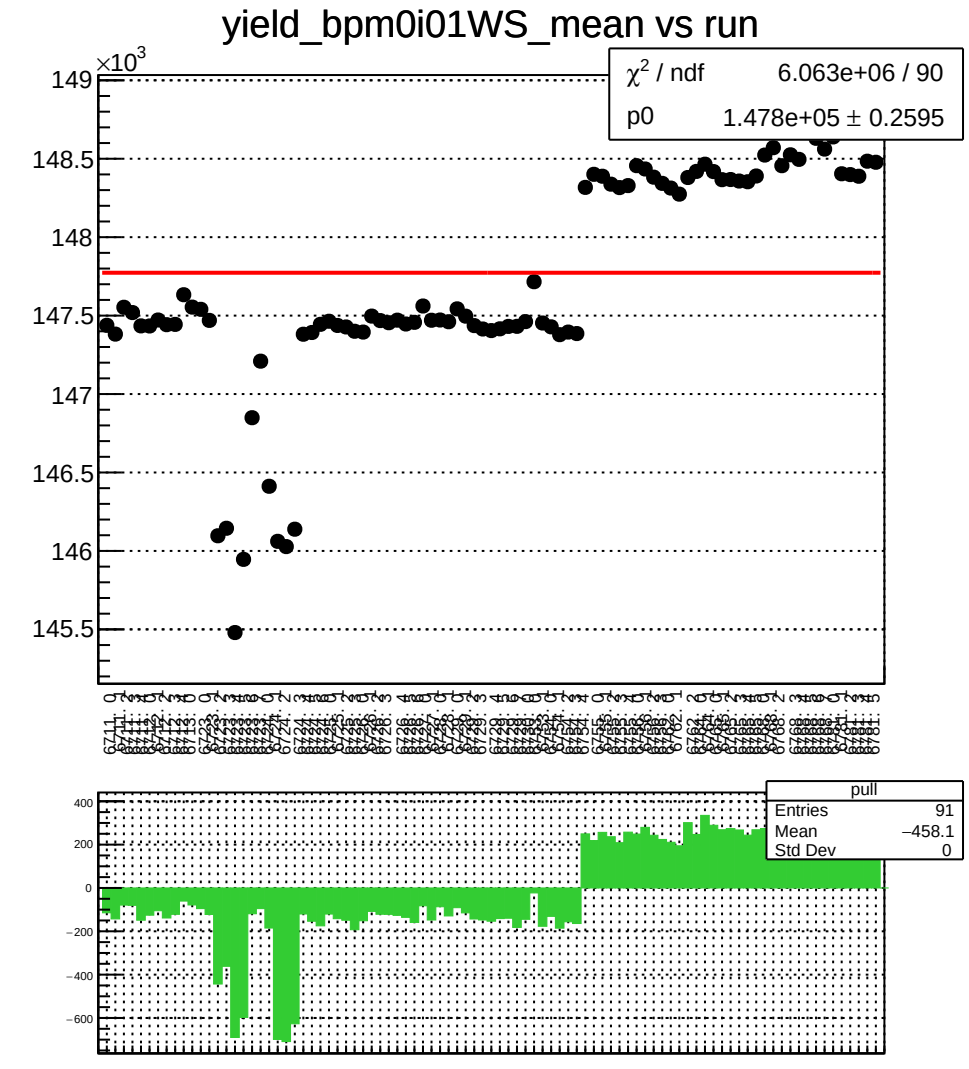

pull1D
Entries 91
Mean 3.868
Std Dev 5.441
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

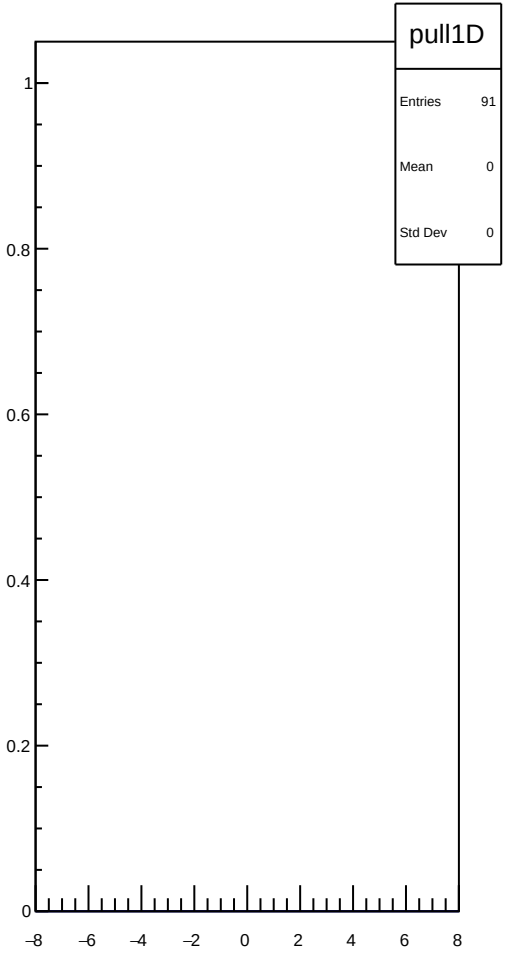

yield_bpm2i01WS_rms vs run
χ² / ndf 6.604e+04 / 90
p0 207.7 ± 0.1576
700
600
500
400
300
200

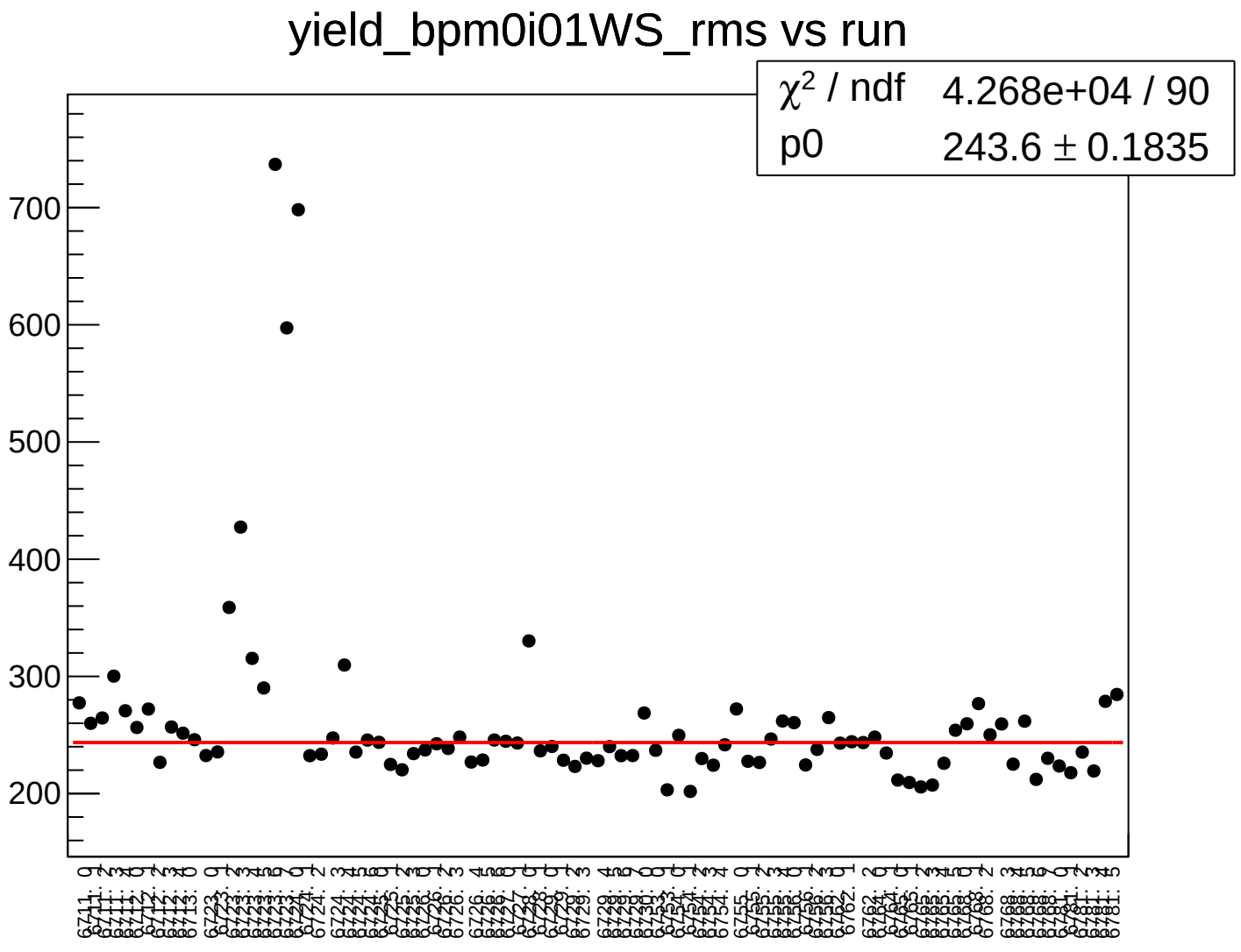

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.466e+07 / 90
p0 1.548e+05 ± 0.2755
156
155
154
153
152
151
pull
Entries 91
Mean −463.3
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000

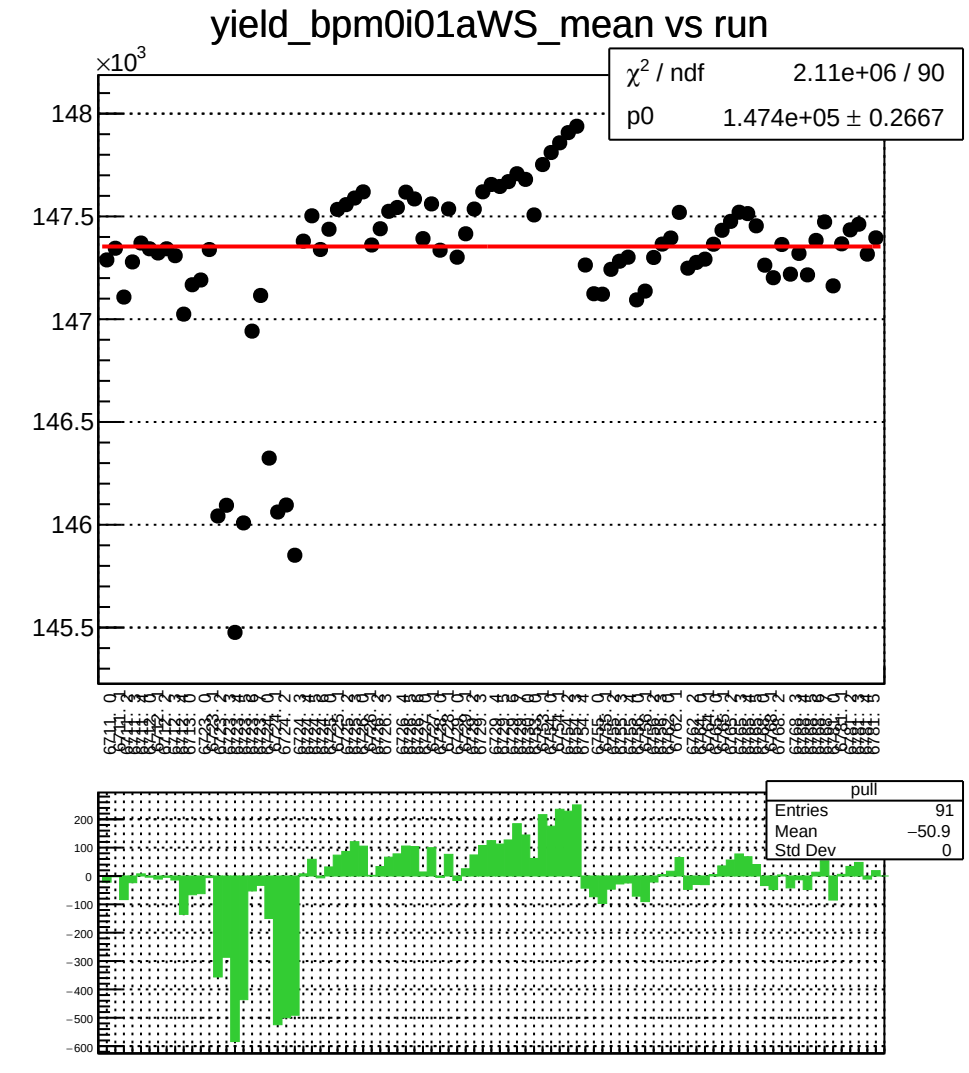

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

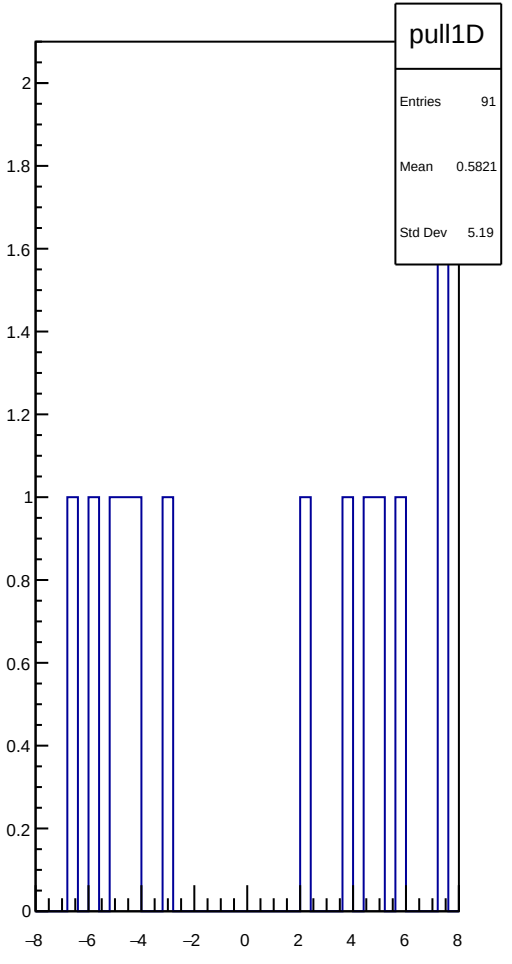

yield_bpm0i07WS_rms vs run
χ² / ndf 5.055e+04 / 90
p0 258 ± 0.1948
1000
900
800
700
600
500
400
300
200

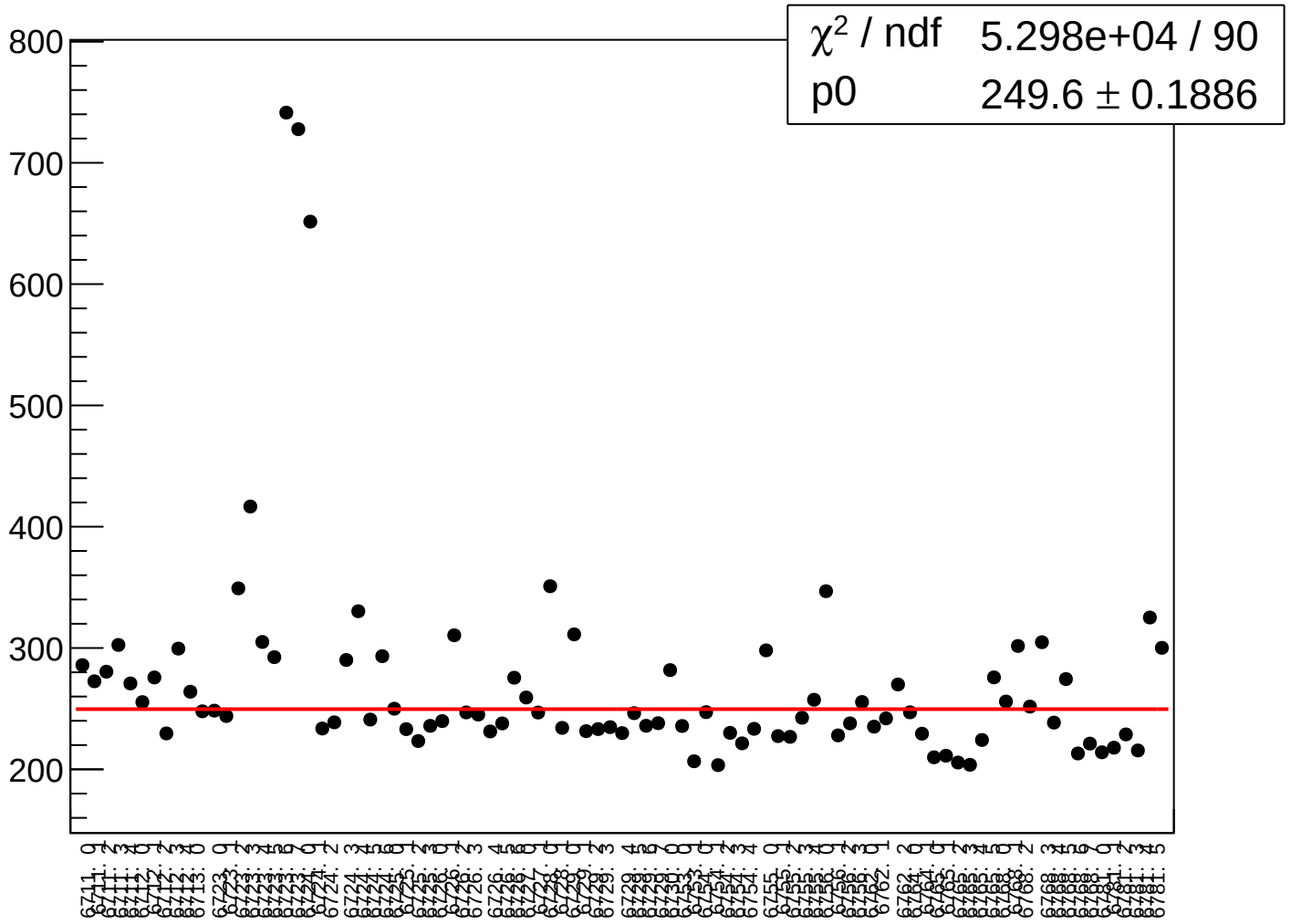

yield_bpm0i01WS_mean vs run
×10^3
149
148.5
148
147.5
147
146.5
146
145.5
χ² / ndf 6.063e+06 / 90
p0 1.478e+05 ± 0.2595
pull
Entries 91
Mean −458.1
Std Dev 0
400
200
0
−200
−400
−600

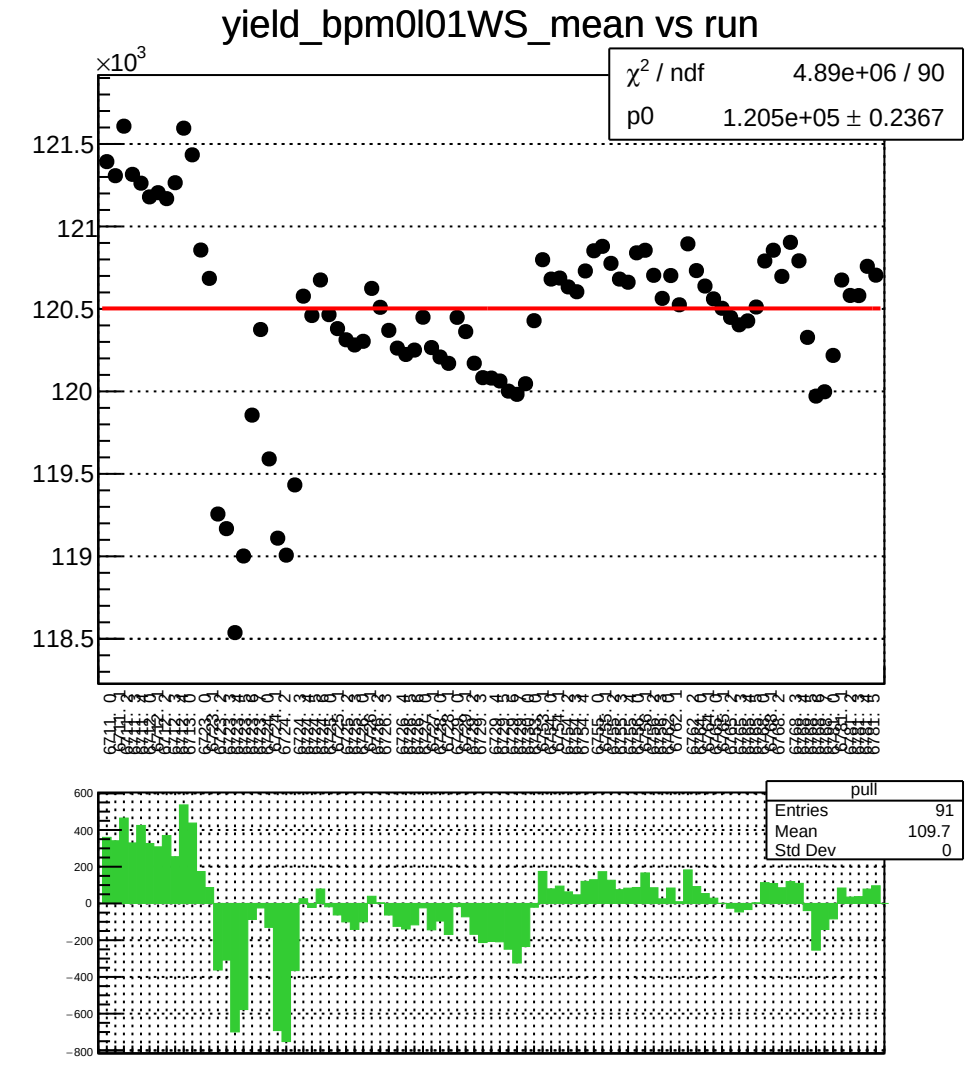

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

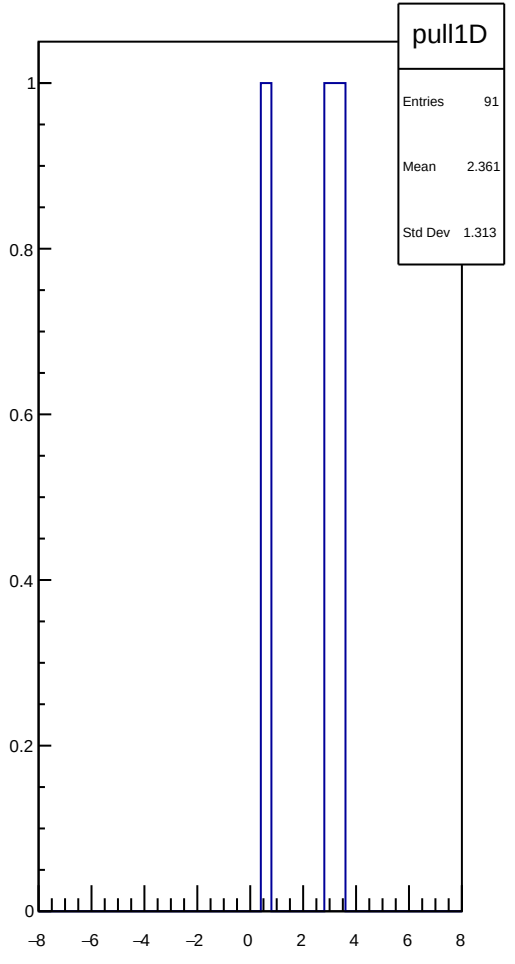

yield_bpm0i01WS_rms vs run
χ² / ndf 4.268e+04 / 90
p0 243.6 ± 0.1835
700
600
500
400
300
200

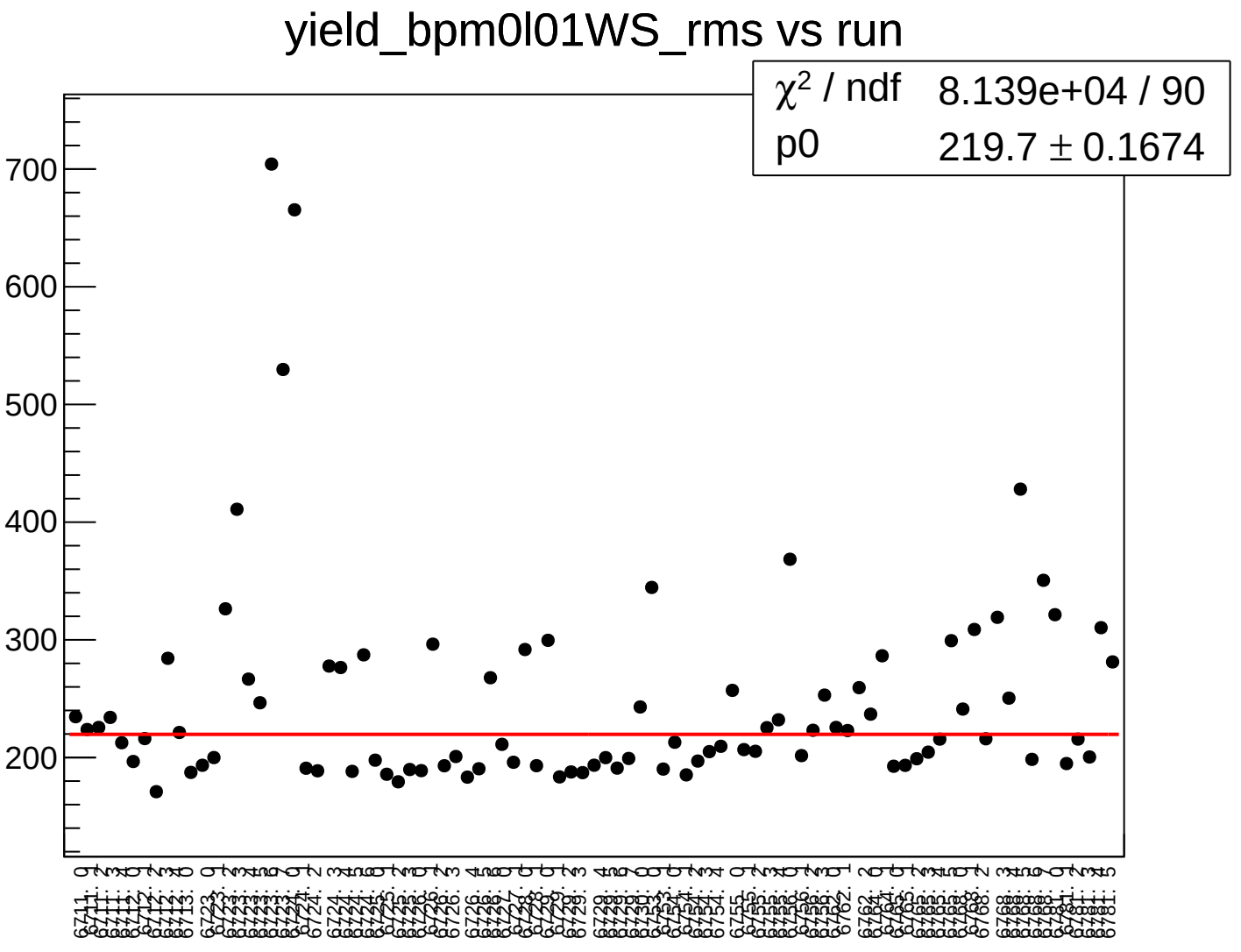

yield_bpm0i01aWS_mean vs run
×10^3
χ^2 / ndf 2.11e+06 / 90
p0 1.474e+05 ± 0.2667
148
147.5
147
146.5
146
145.5
pull
Entries 91
Mean −50.9
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
−600

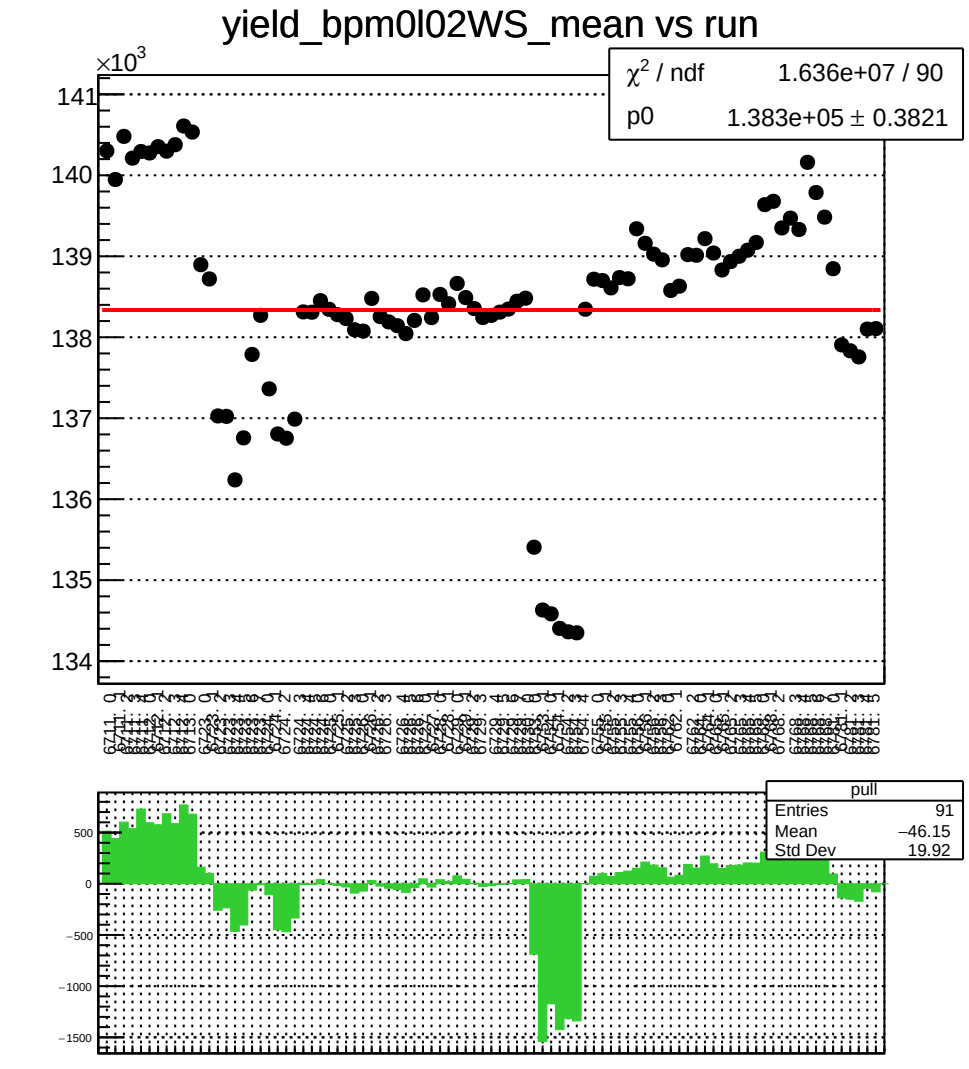

pull1D
Entries 91
Mean 0.5821
Std Dev 5.19
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

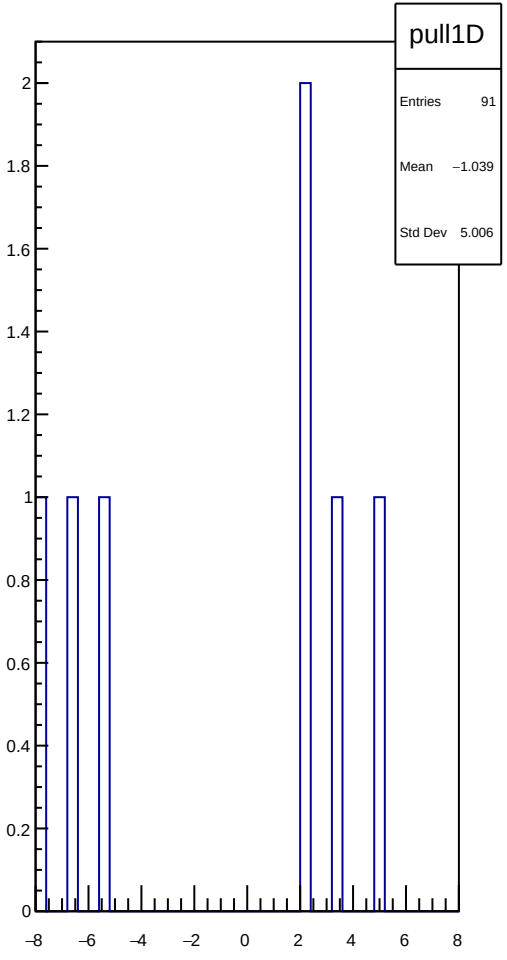

yield_bpm0i01aWS_rms vs run
χ² / ndf 5.298e+04 / 90
p0 249.6 ± 0.1886
800
700
600
500
400
300
200

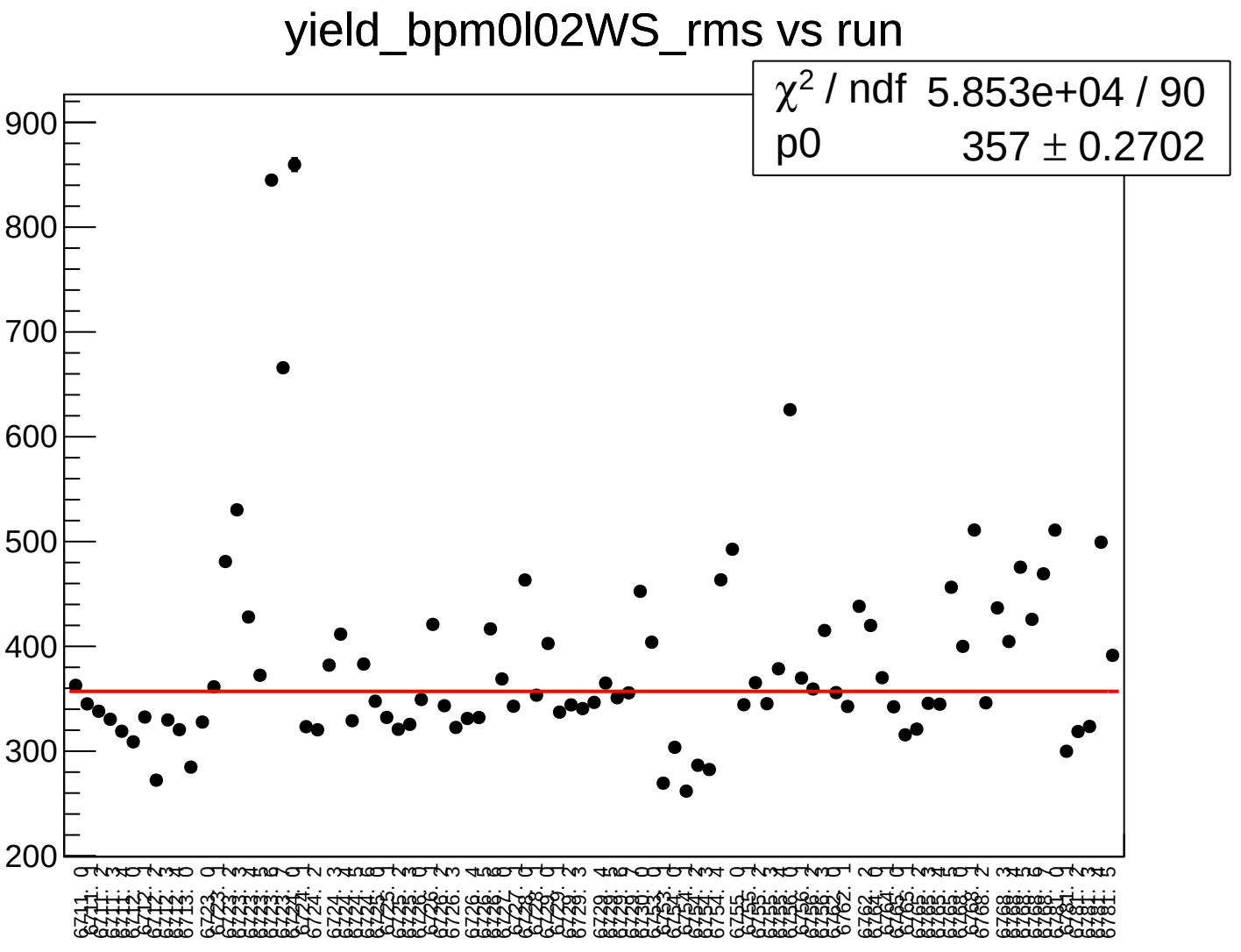

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 4.89e+06 / 90
p0 1.205e+05 ± 0.2367
121.5
121
120.5
120
119.5
119
118.5
pull
Entries 91
Mean 109.7
Std Dev 0
600
400
200
0
−200
−400
−600
−800

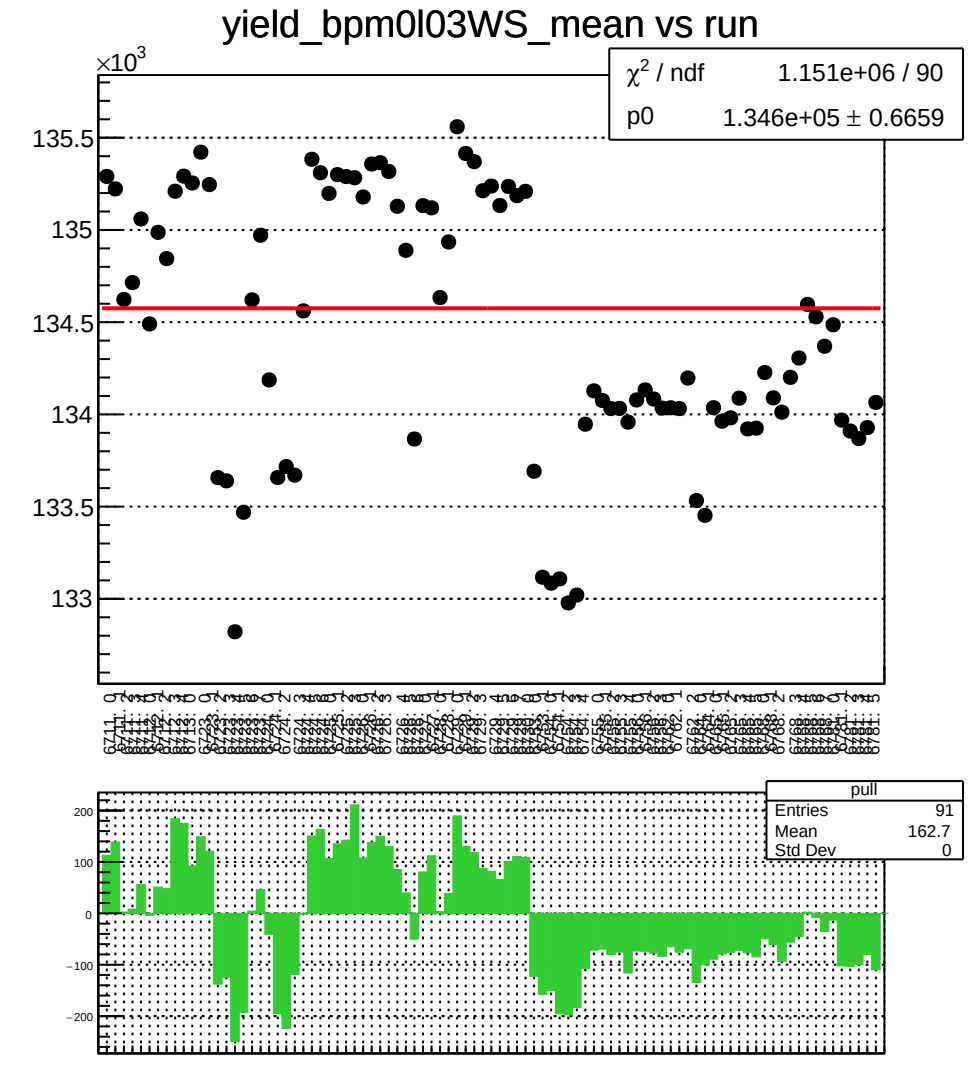

pull1D
Entries 91
Mean 2.361
Std Dev 1.313
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

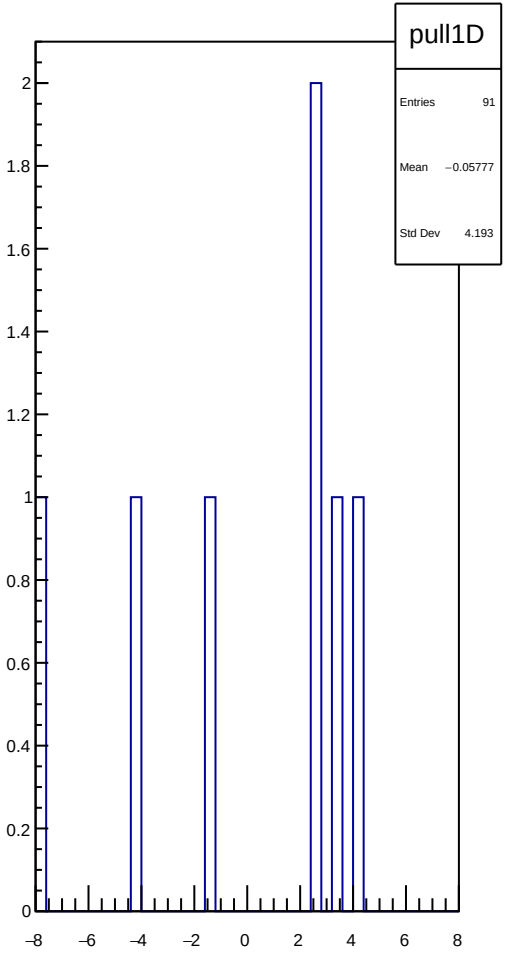

yield_bpm0l01WS_rms vs run
χ² / ndf 8.139e+04 / 90
p0 219.7 ± 0.1674
700
600
500
400
300
200

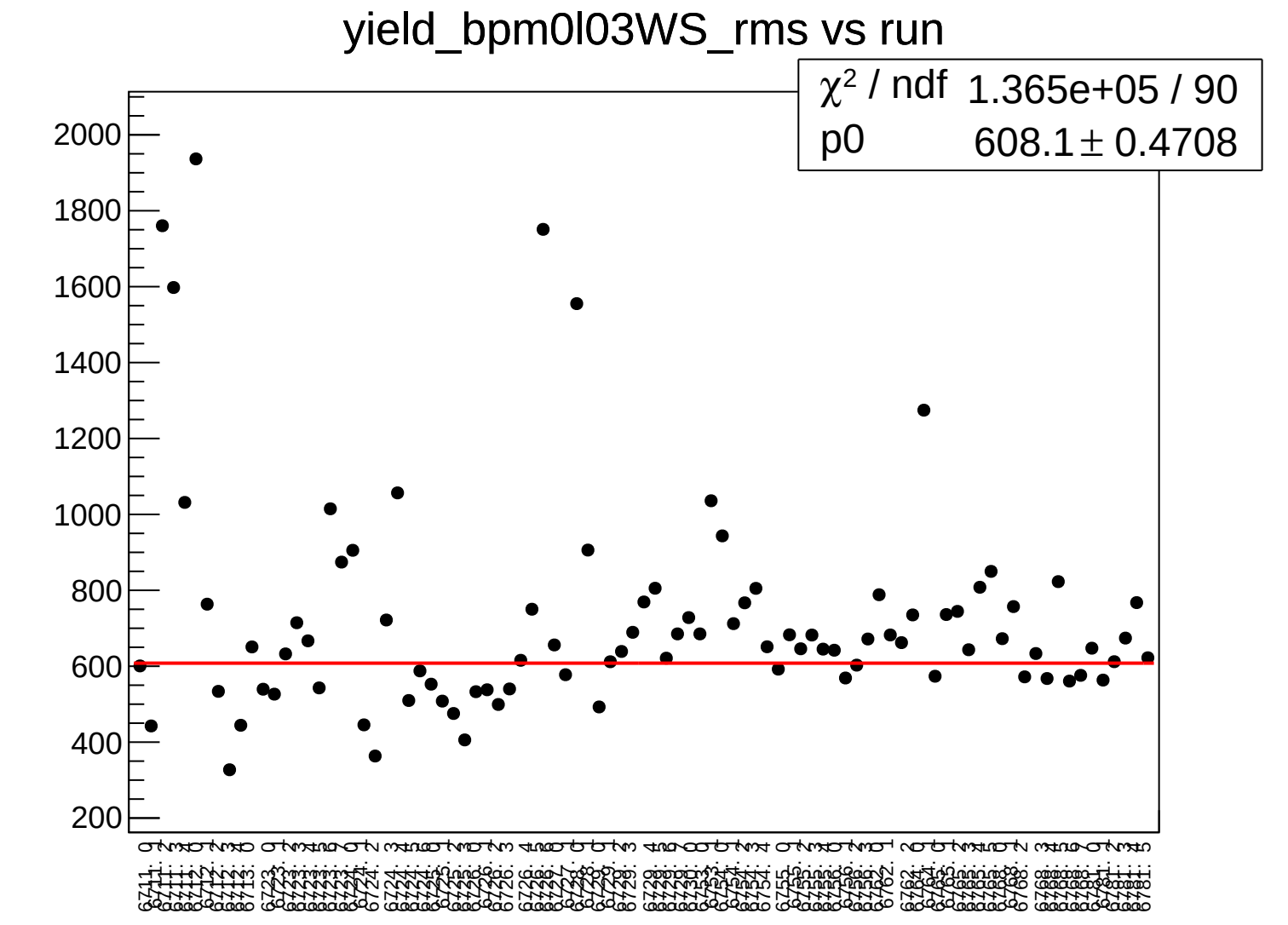

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 1.636e+07 / 90
p0 1.383e+05 ± 0.3821
141
140
139
138
137
136
135
134
pull
Entries 91
Mean −46.15
Std Dev 19.92
500
0
−500
−1000
−1500

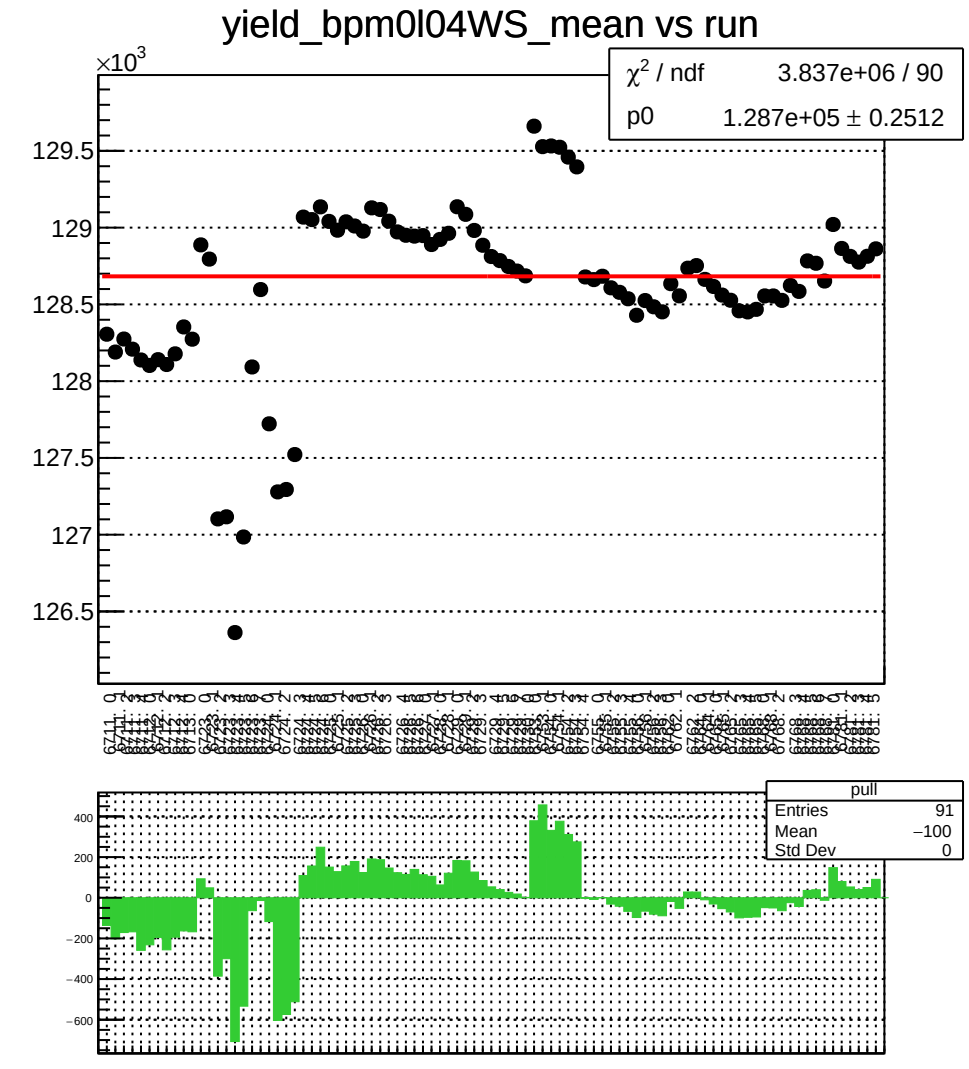

pull1D
Entries 91
Mean −1.039
Std Dev 5.006
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

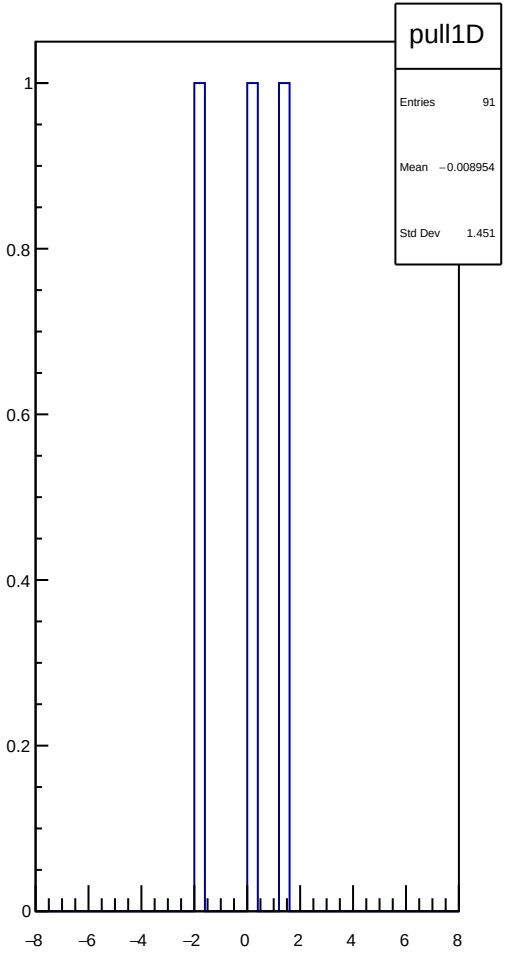

yield_bpm0l02WS_rms vs run
χ^2 / ndf 5.853e+04 / 90
p0 357 ± 0.2702
900
800
700
600
500
400
300
200

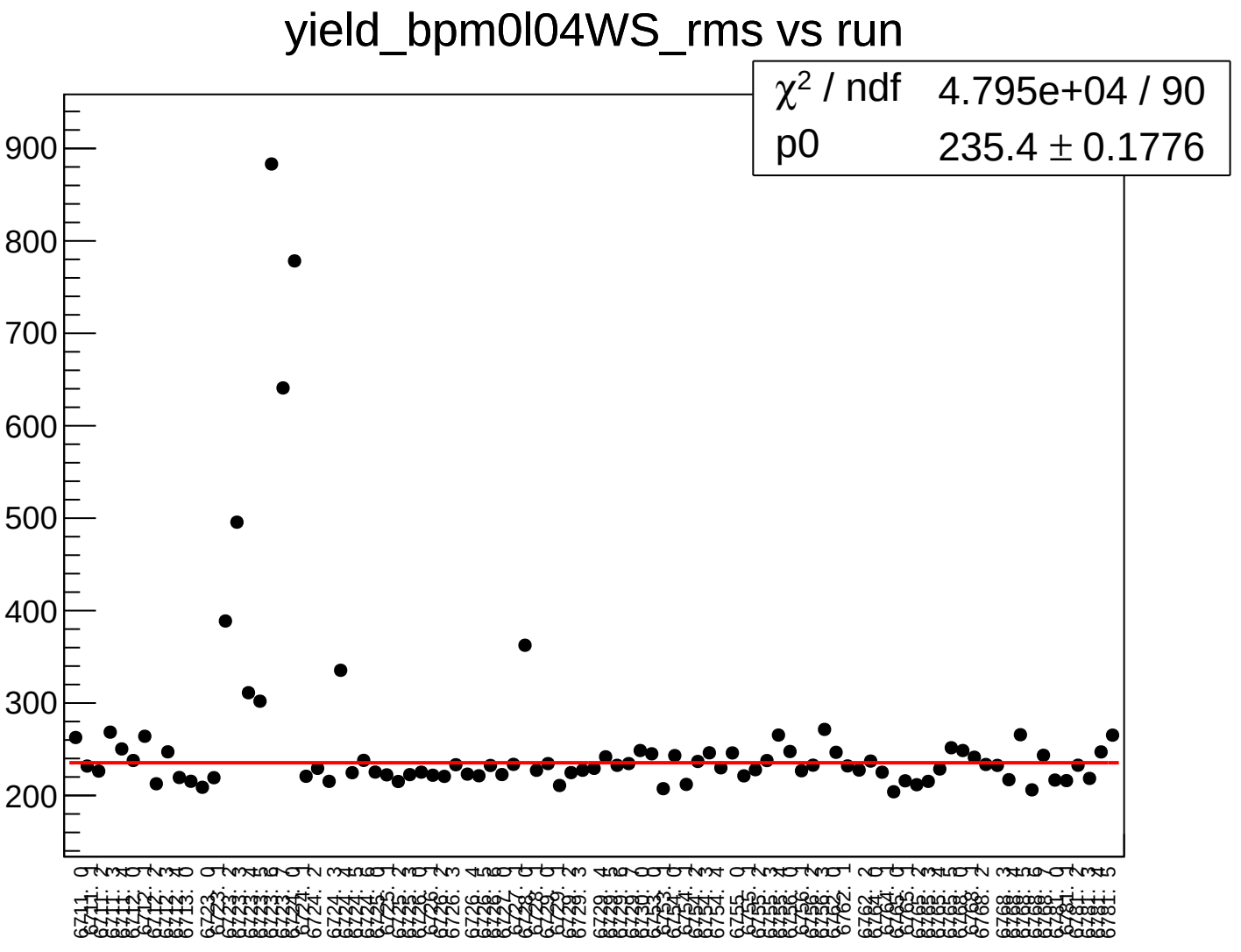

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 1.151e+06 / 90
p0 1.346e+05 ± 0.6659
135.5
135
134.5
134
133.5
133
pull
Entries 91
Mean 162.7
Std Dev 0
200
100
0
−100
−200

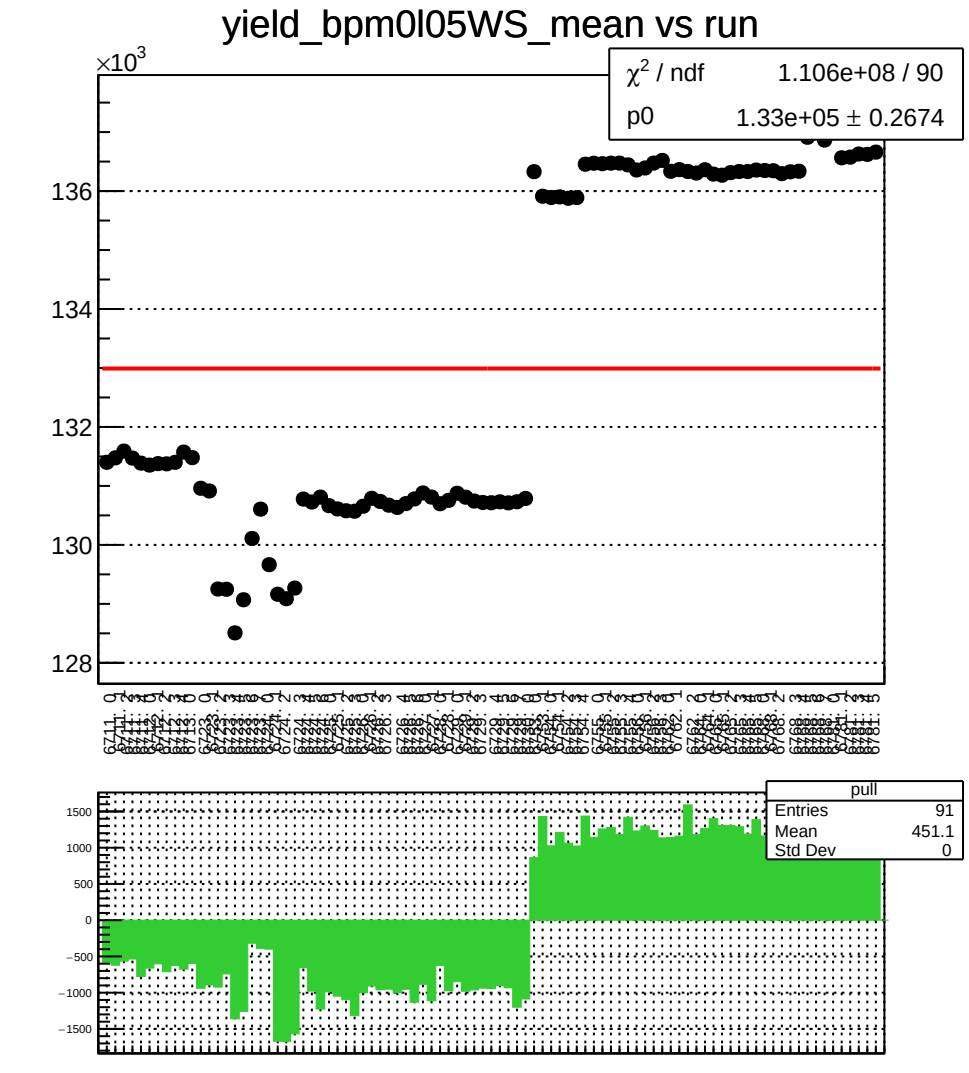

pull1D
Entries 91
Mean −0.05777
Std Dev 4.193
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

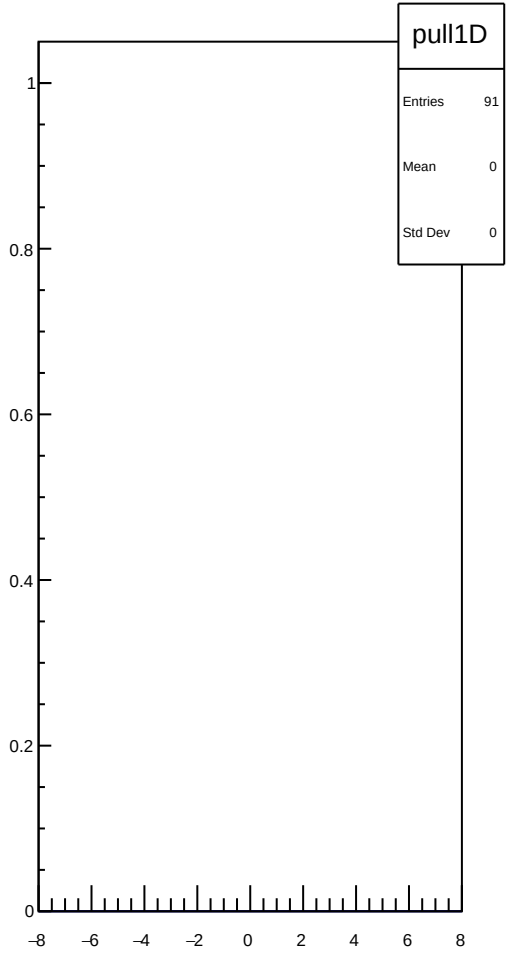

yield_bpm0l03WS_rms vs run
χ² / ndf 1.365e+05 / 90
p0 608.1 ± 0.4708
2000
1800
1600
1400
1200
1000
800
600
400
200

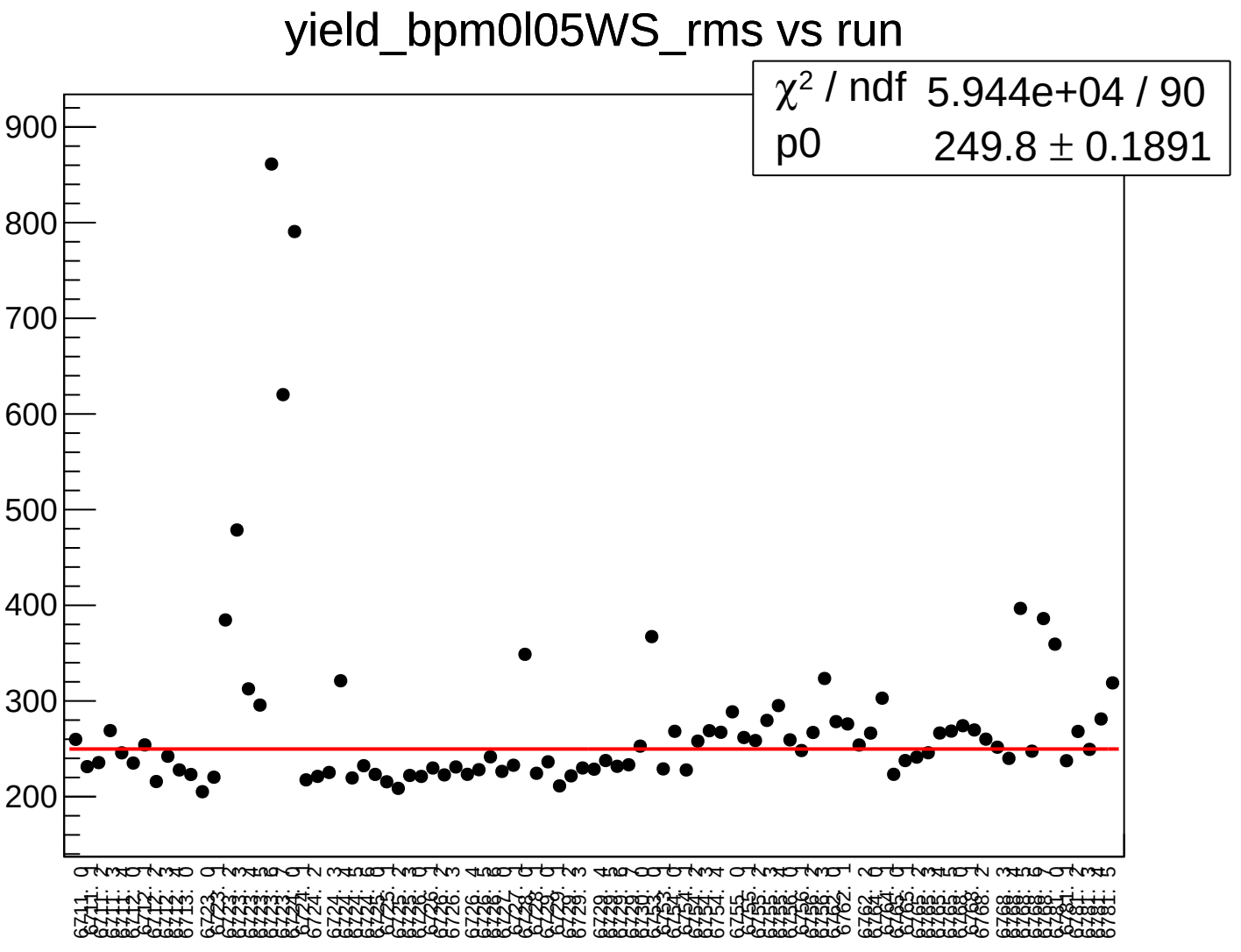

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 3.837e+06 / 90
p0 1.287e+05 ± 0.2512
129.5
129
128.5
128
127.5
127
126.5
pull
Entries 91
Mean −100
Std Dev 0
400
200
0
−200
−400
−600

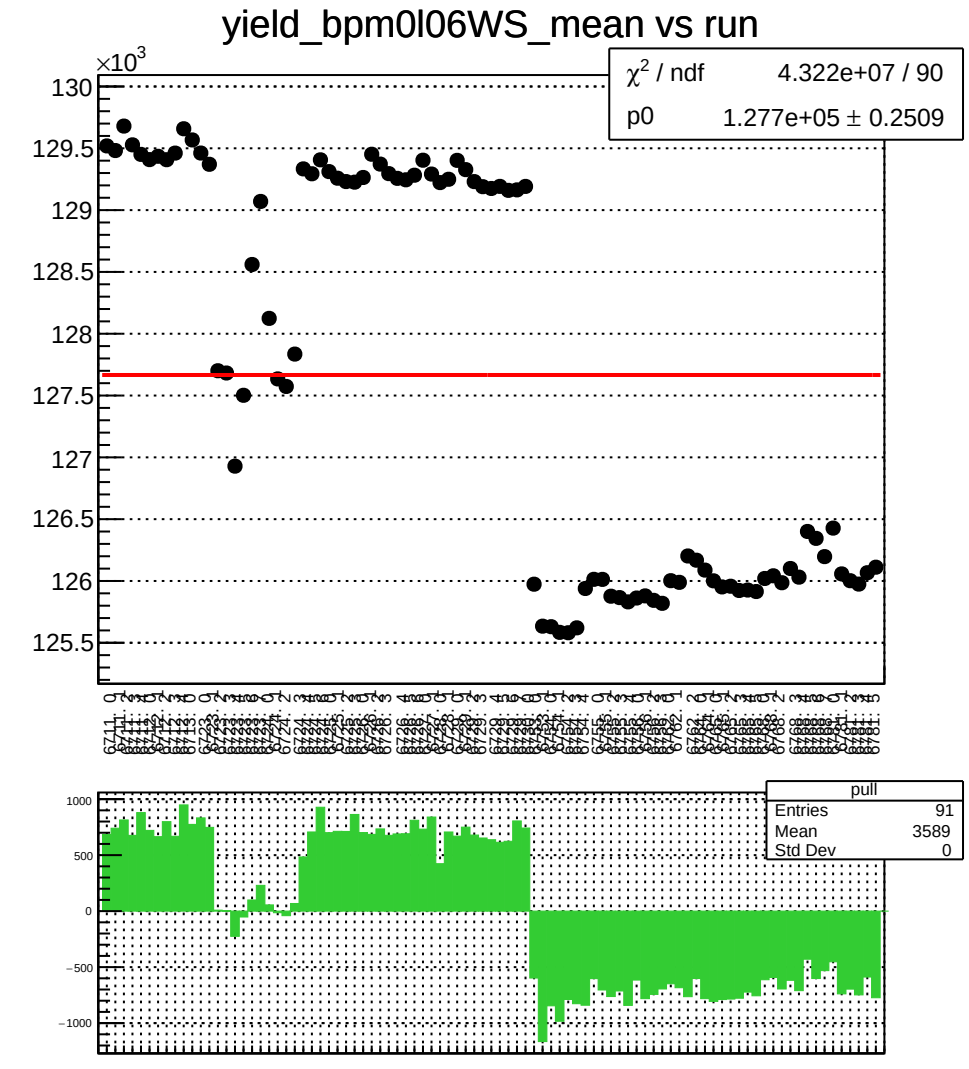

pull1D
Entries 91
Mean −0.008954
Std Dev 1.451
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

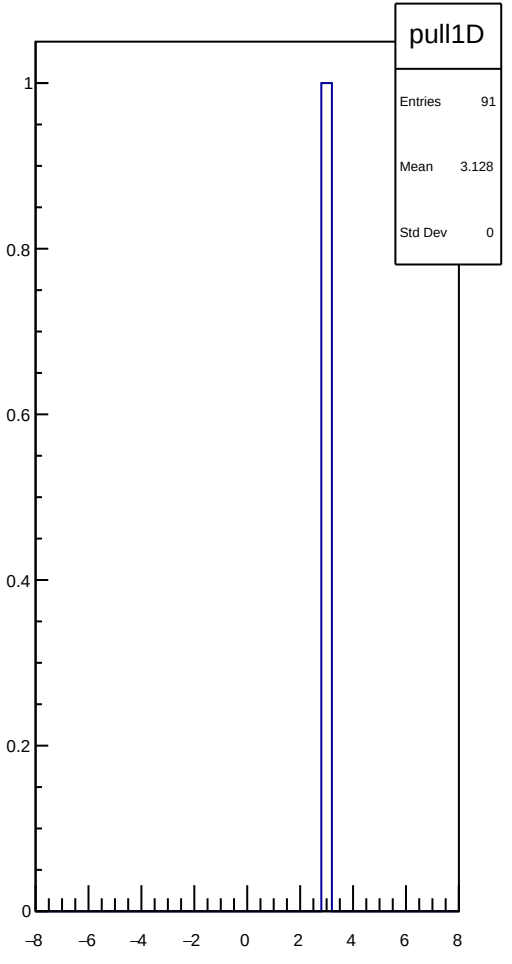

yield_bpm0l04WS_rms vs run
χ² / ndf 4.795e+04 / 90
p0 235.4 ± 0.1776
900
800
700
600
500
400
300
200

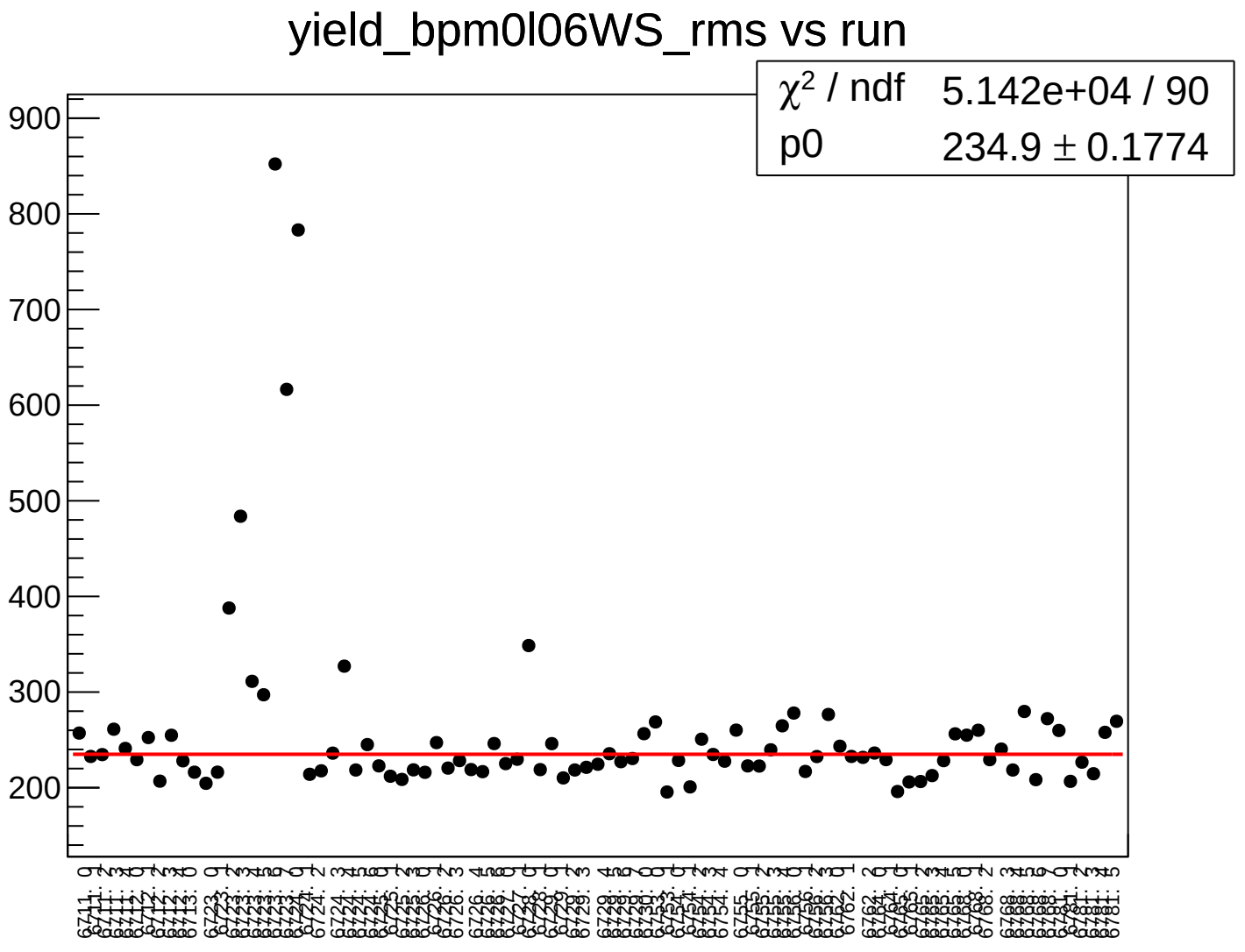

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 1.106e+08 / 90
p0 1.33e+05 ± 0.2674
136
134
132
130
128
pull
Entries 91
Mean 451.1
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

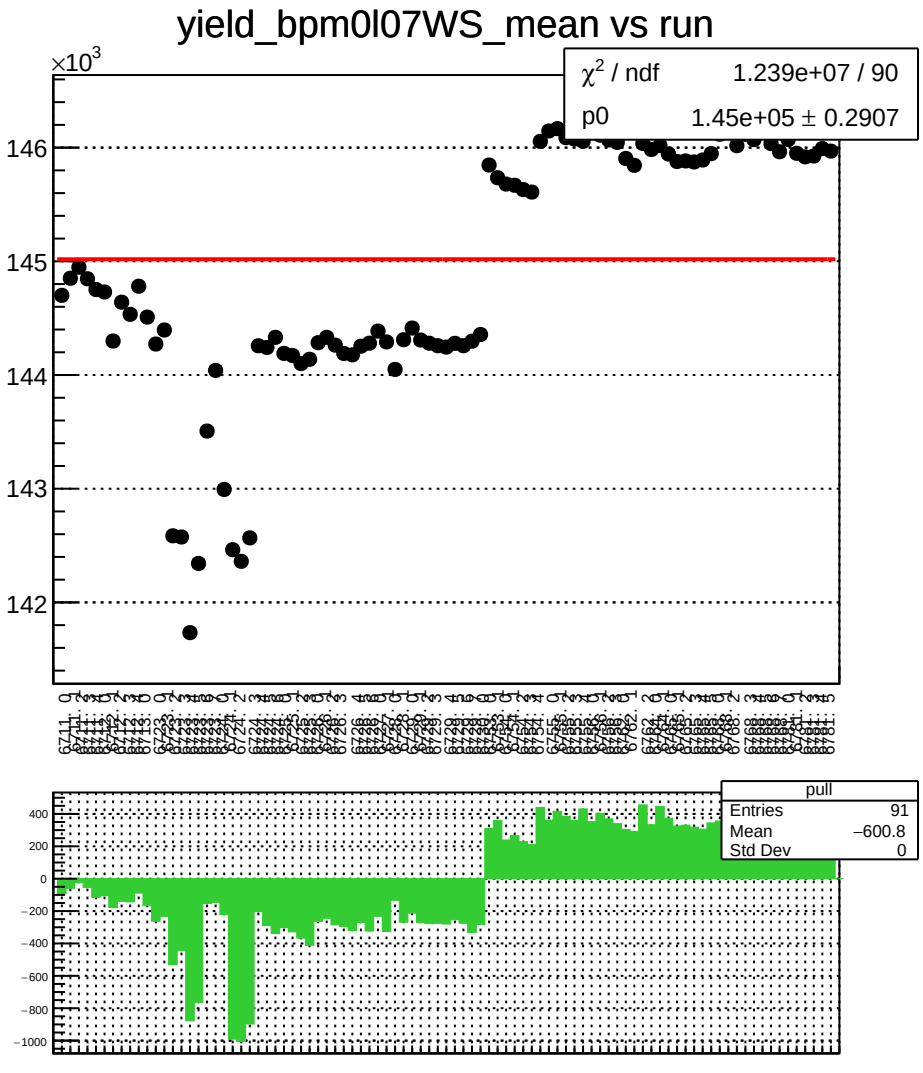

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

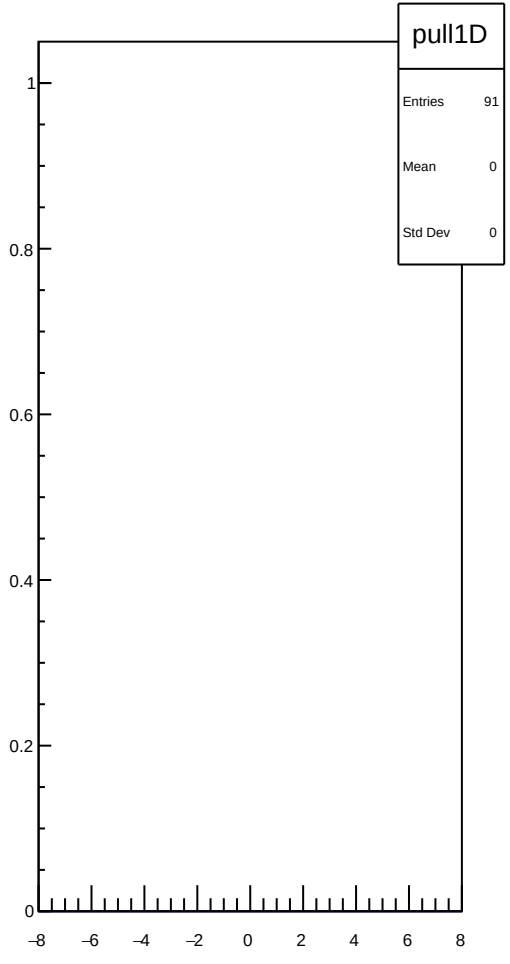

yield_bpm0l05WS_rms vs run
χ² / ndf 5.944e+04 / 90
p0 249.8 ± 0.1891
900
800
700
600
500
400
300
200

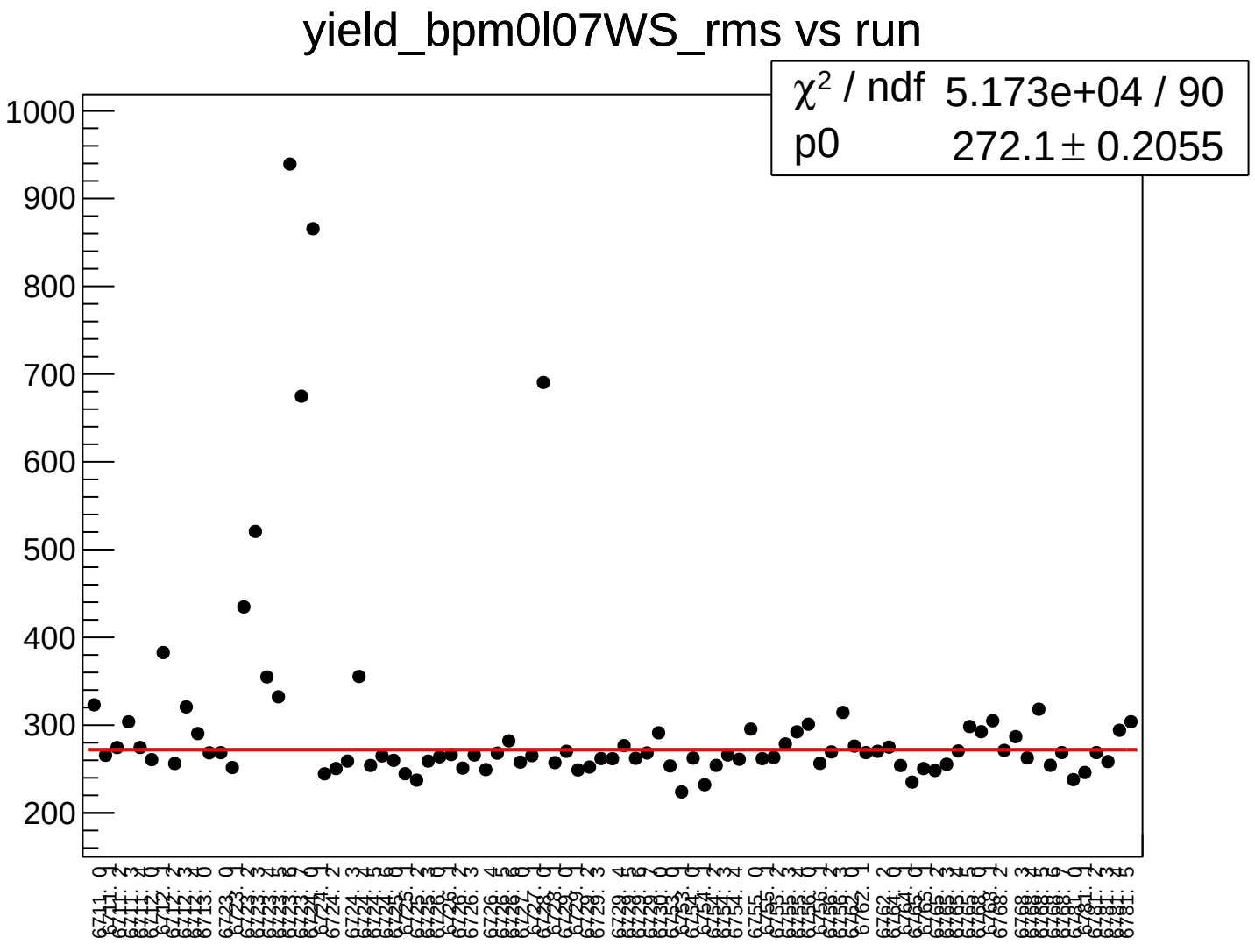

yield_bpm0l06WS_mean vs run
×10^3
130
129.5
129
128.5
128
127.5
127
126.5
126
125.5
χ² / ndf 4.322e+07 / 90
p0 1.277e+05 ± 0.2509
1000
500
0
−500
−1000
pull
Entries 91
Mean 3589
Std Dev 0

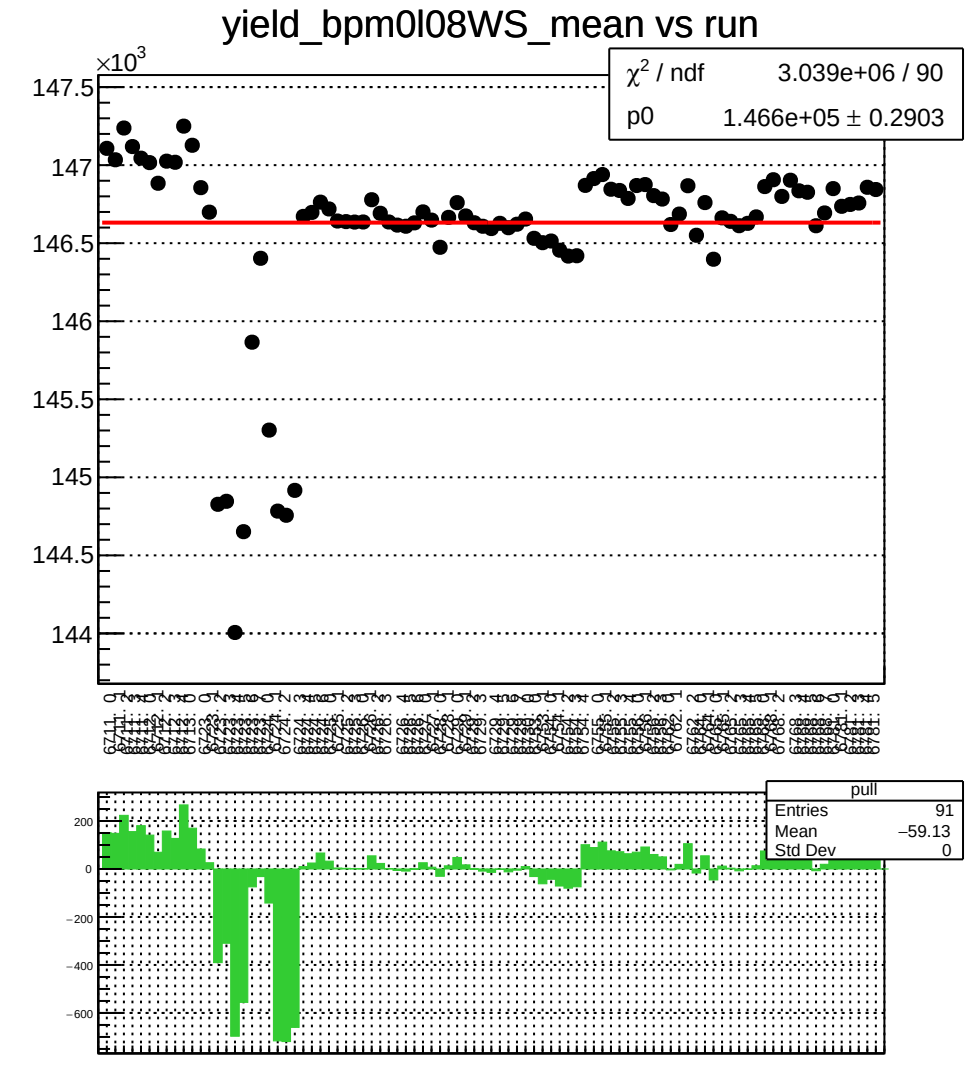

pull1D
Entries 91
Mean 3.128
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

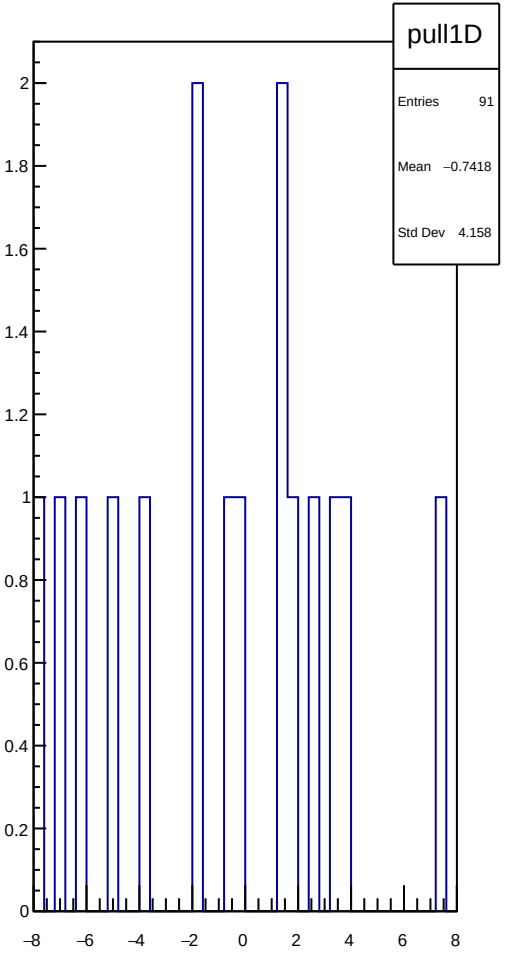

yield_bpm0l06WS_rms vs run
χ^2 / ndf 5.142e+04 / 90
p0 234.9 ± 0.1774
900
800
700
600
500
400
300
200

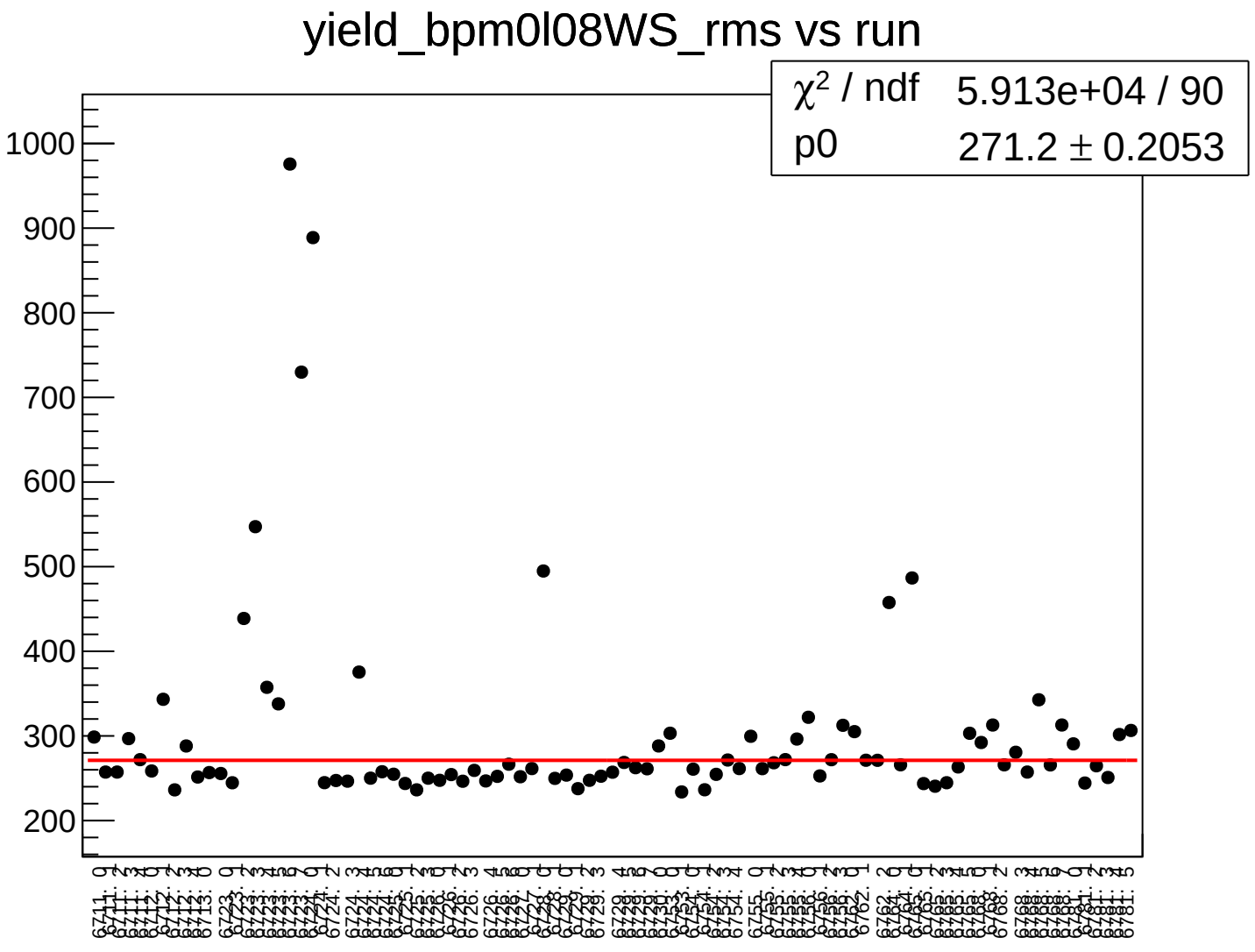

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 1.239e+07 / 90
p0 1.45e+05 ± 0.2907
146
145
144
143
142
pull
Entries 91
Mean −600.8
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000

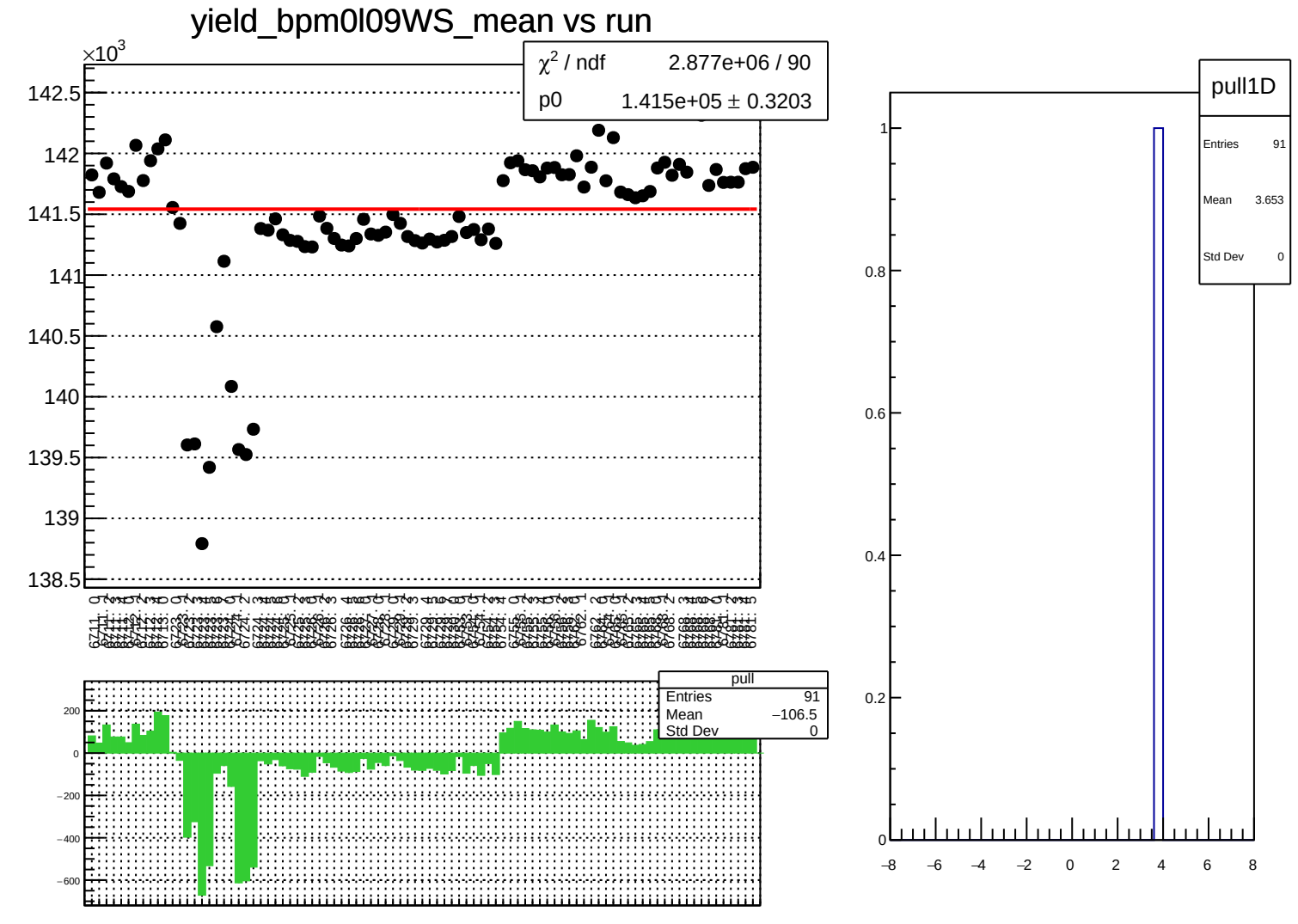

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

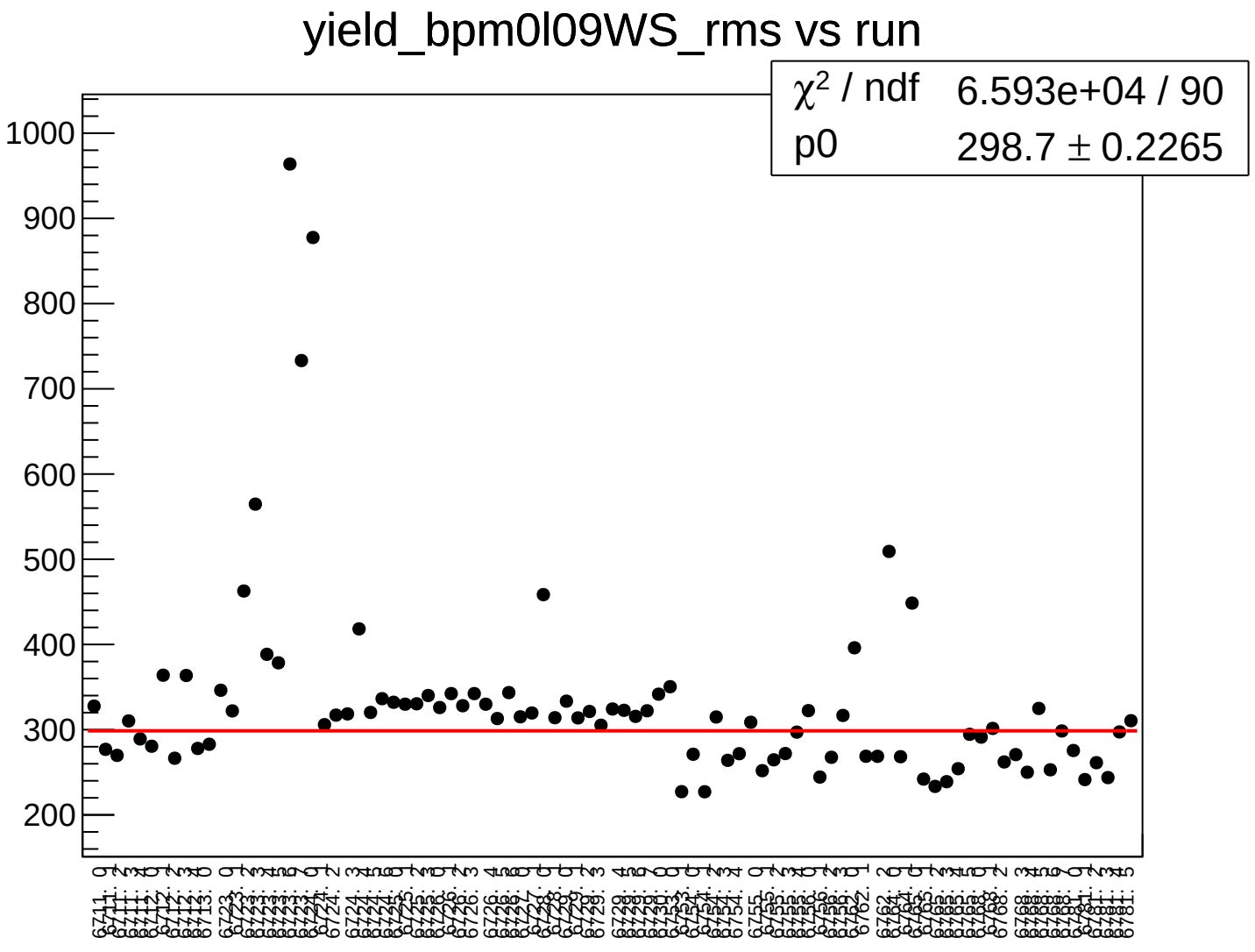

yield_bpm0l07WS_rms vs run
χ² / ndf 5.173e+04 / 90
p0 272.1 ± 0.2055
1000
900
800
700
600
500
400
300
200

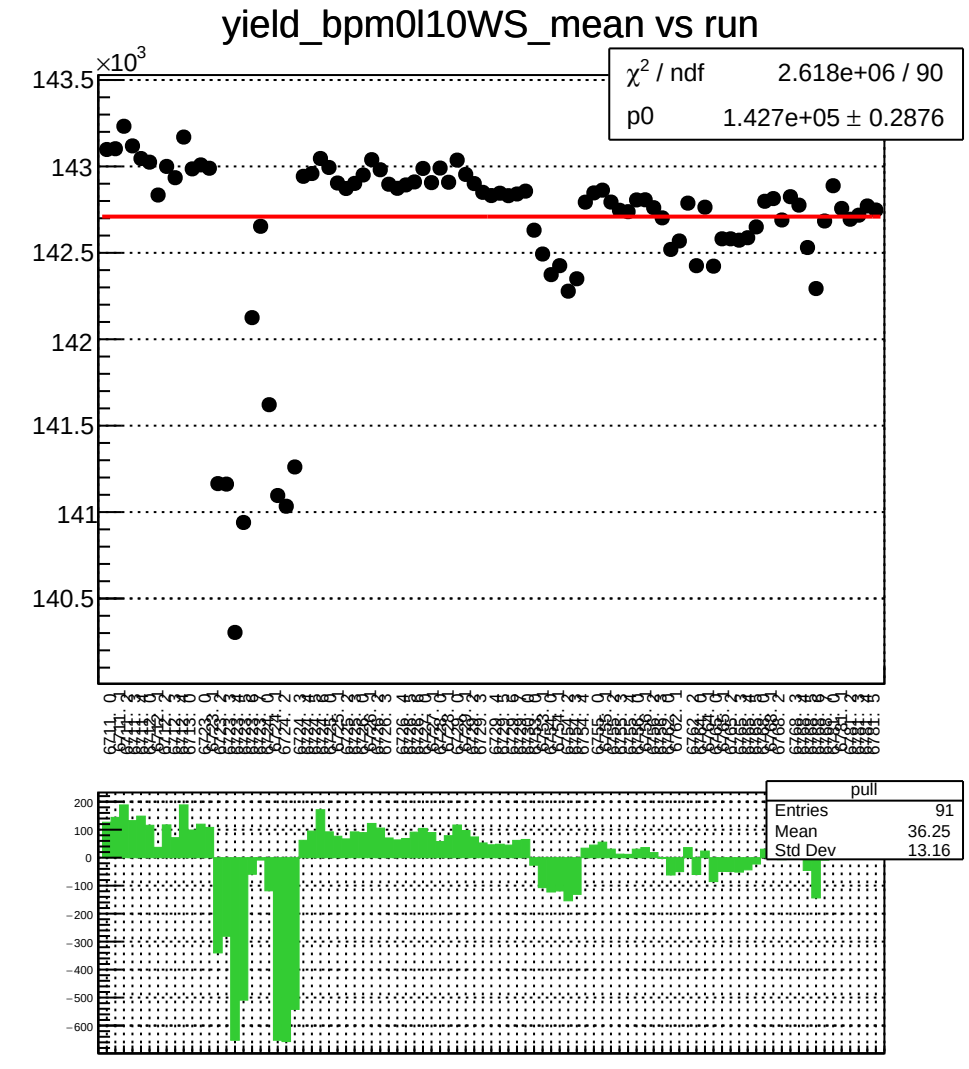

yield_bpm0l08WS_mean vs run
×10^3
147.5
147
146.5
146
145.5
145
144.5
144
χ² / ndf 3.039e+06 / 90
p0 1.466e+05 ± 0.2903
pull
Entries 91
Mean −59.13
Std Dev 0
200
0
−200
−400
−600

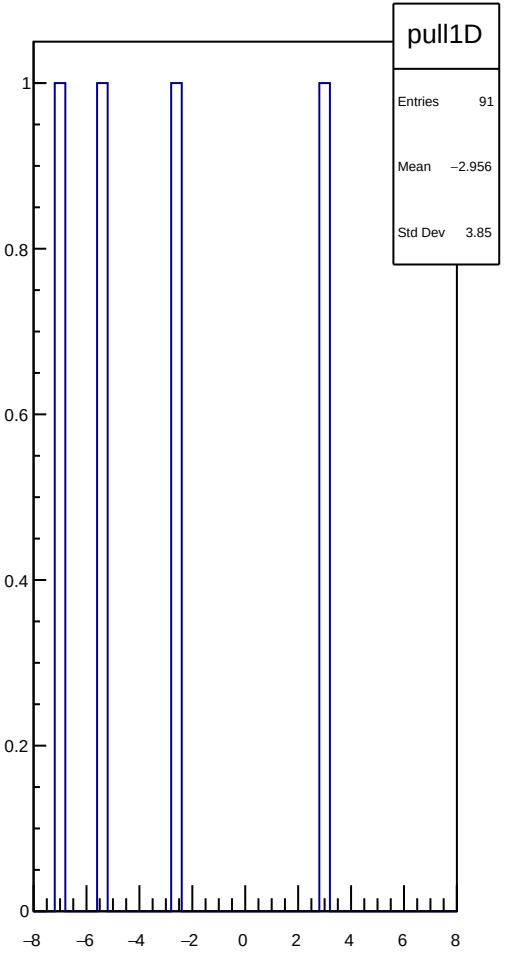

pull1D
Entries 91
Mean −0.7418
Std Dev 4.158
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

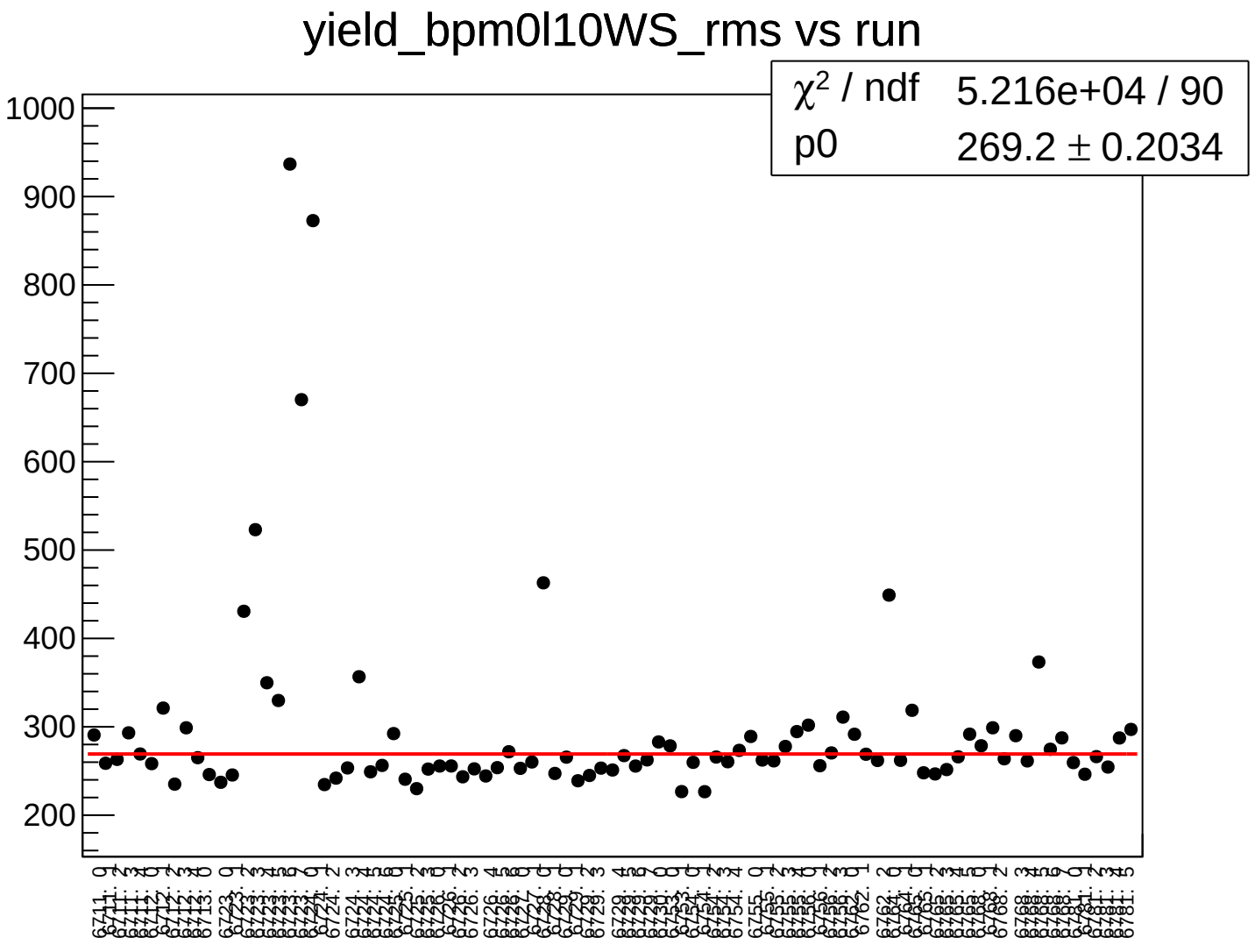

yield_bpm0l08WS_rms vs run
χ² / ndf 5.913e+04 / 90
p0 271.2 ± 0.2053
1000
900
800
700
600
500
400
300
200

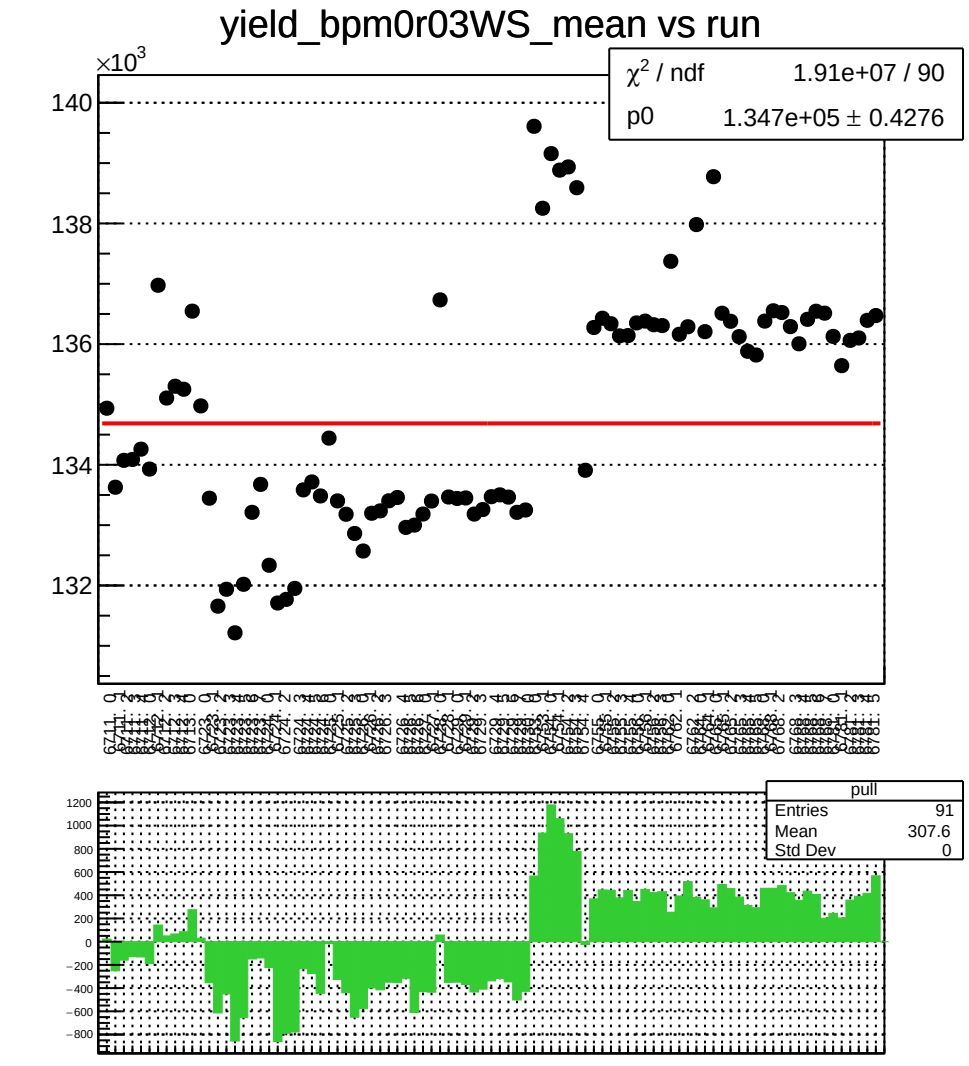

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 2.877e+06 / 90
p0 1.415e+05 ± 0.3203
142.5
142
141.5
141
140.5
140
139.5
139
138.5
pull
Entries 91
Mean −106.5
Std Dev 0
200
0
−200
−400
−600
pull1D
Entries 91
Mean 3.653
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

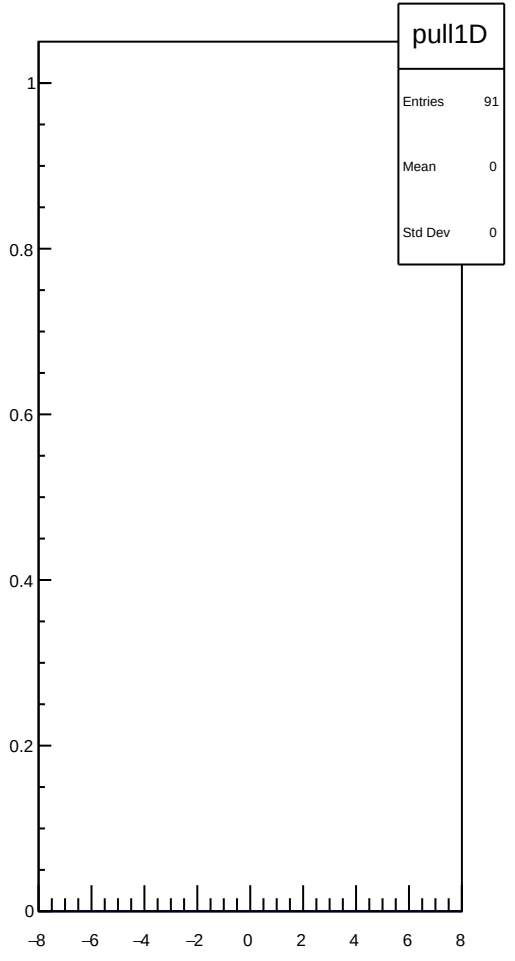

yield_bpm0l09WS_rms vs run
χ² / ndf 6.593e+04 / 90
p0 298.7 ± 0.2265
1000
900
800
700
600
500
400
300
200

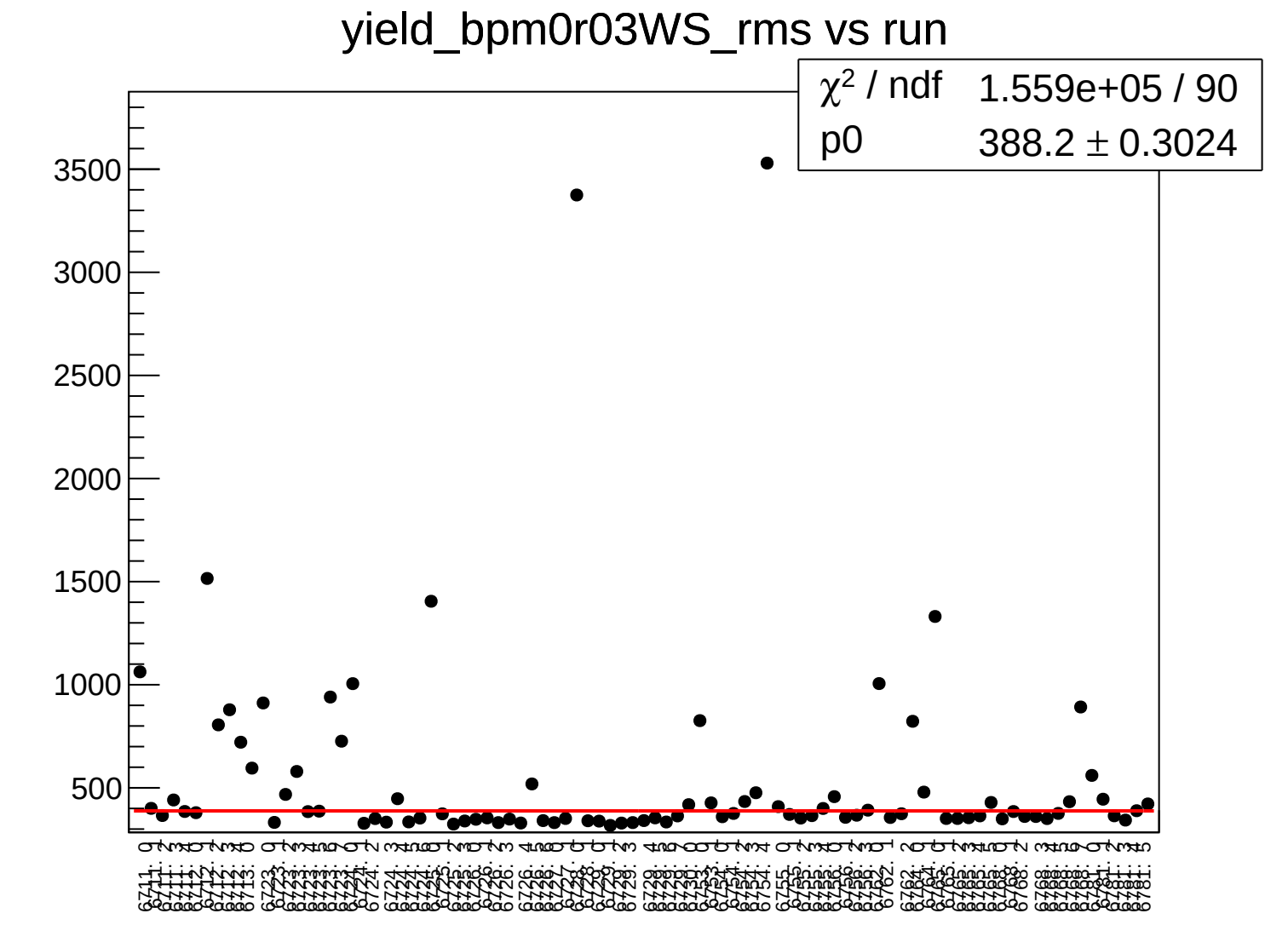

yield_bpm0l10WS_mean vs run
×10^3
143.5
143
142.5
142
141.5
141
140.5
χ² / ndf 2.618e+06 / 90
p0 1.427e+05 ± 0.2876
200
100
0
−100
−200
−300
−400
−500
−600
pull
Entries 91
Mean 36.25
Std Dev 13.16

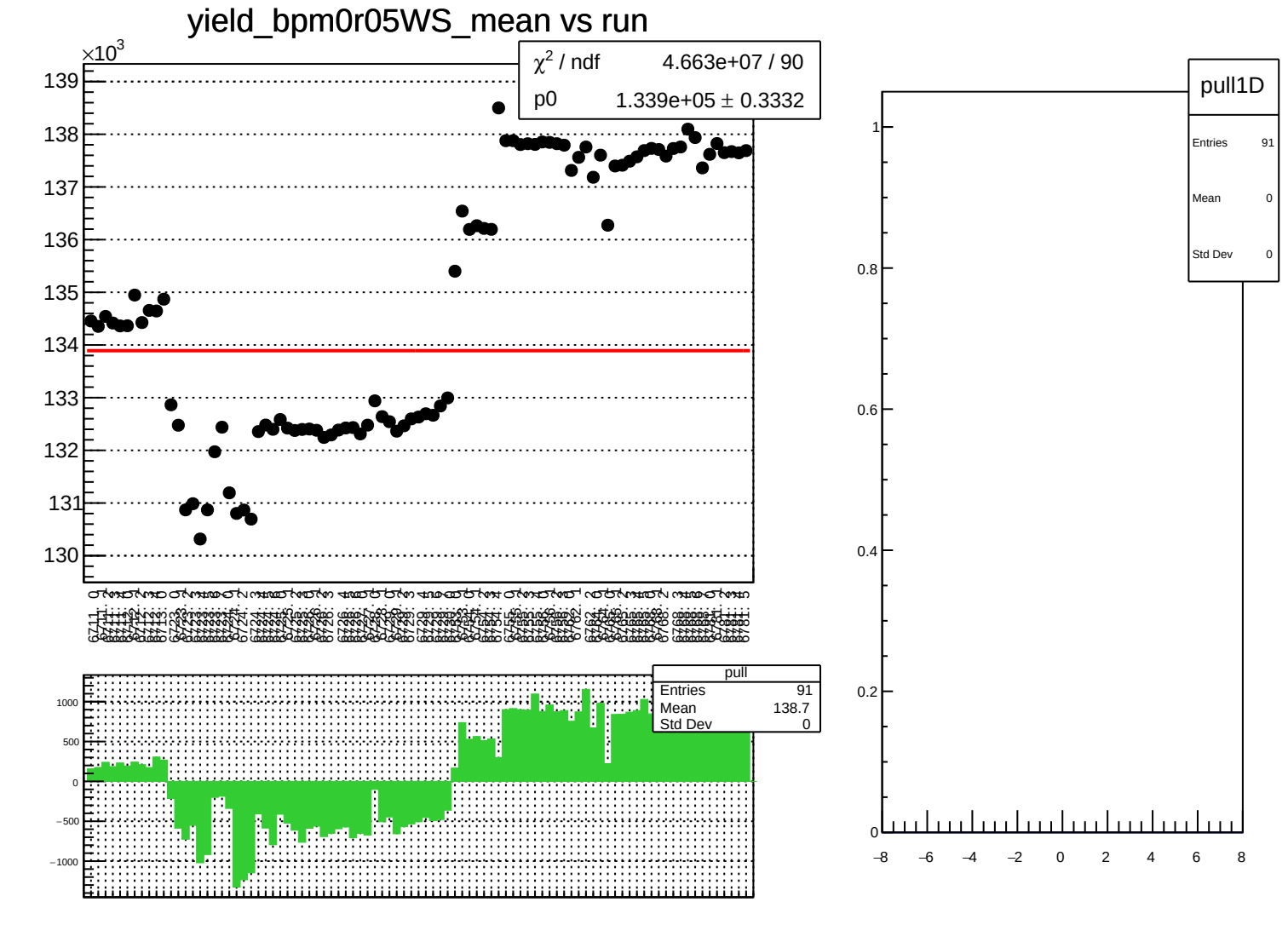

pull1D
Entries 91
Mean −2.956
Std Dev 3.85
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

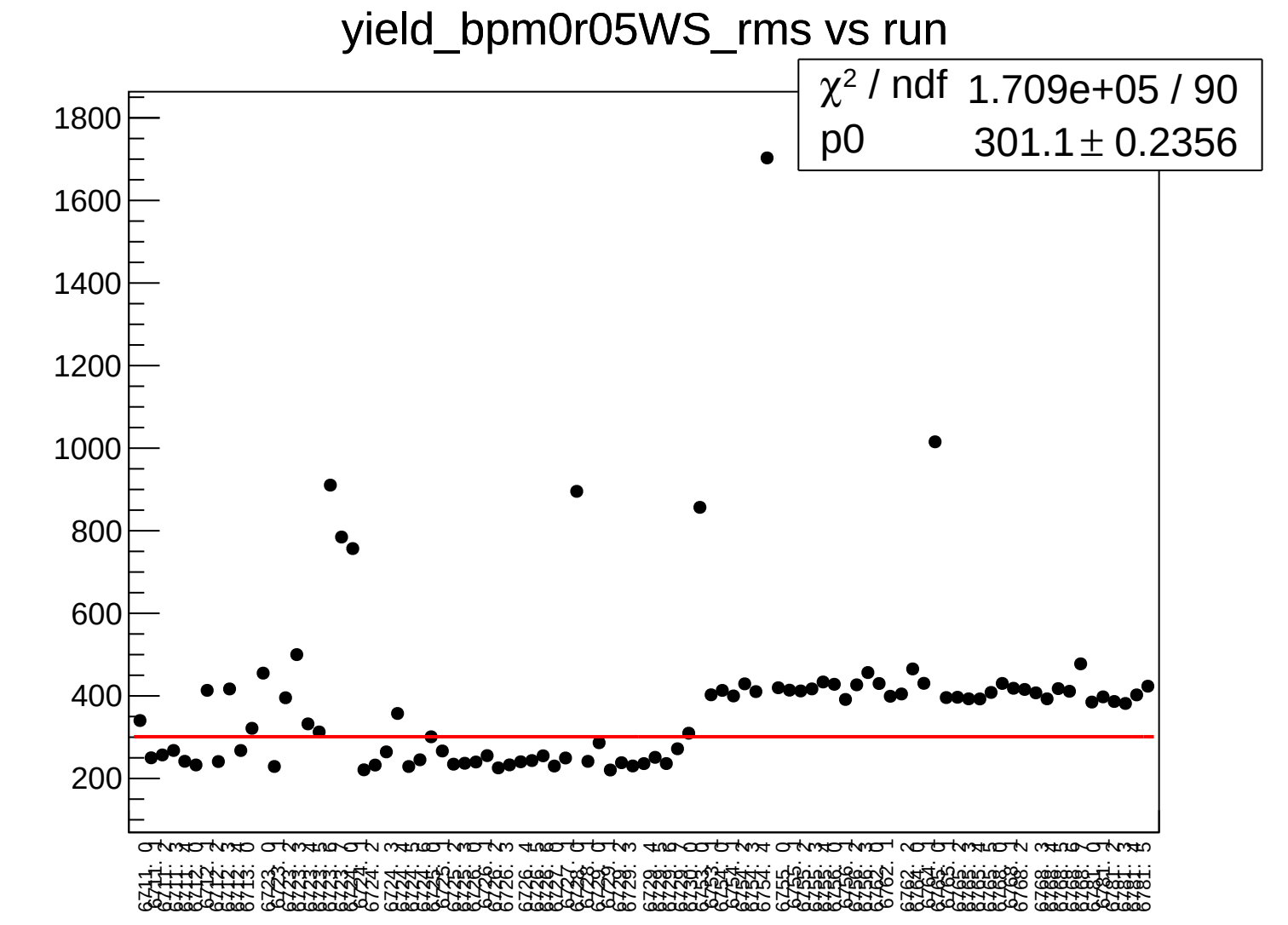

yield_bpm0l10WS_rms vs run
χ² / ndf 5.216e+04 / 90
p0 269.2 ± 0.2034
1000
900
800
700
600
500
400
300
200

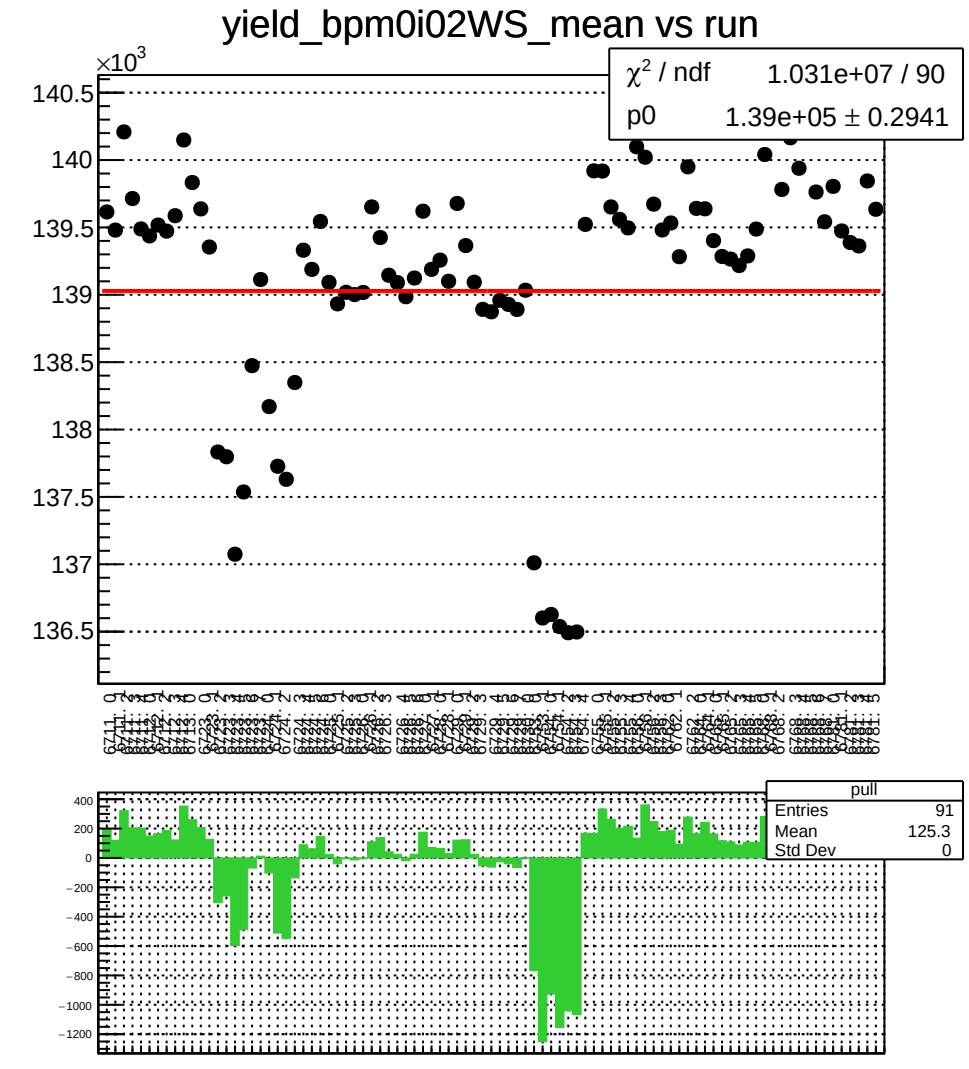

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 1.91e+07 / 90
p0 1.347e+05 ± 0.4276
140
138
136
134
132
pull
Entries 91
Mean 307.6
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600
−800

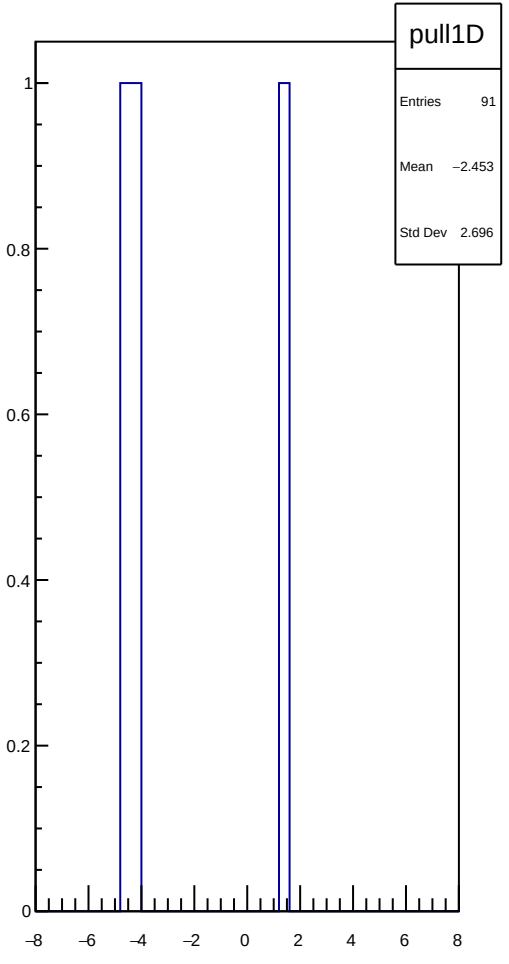

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

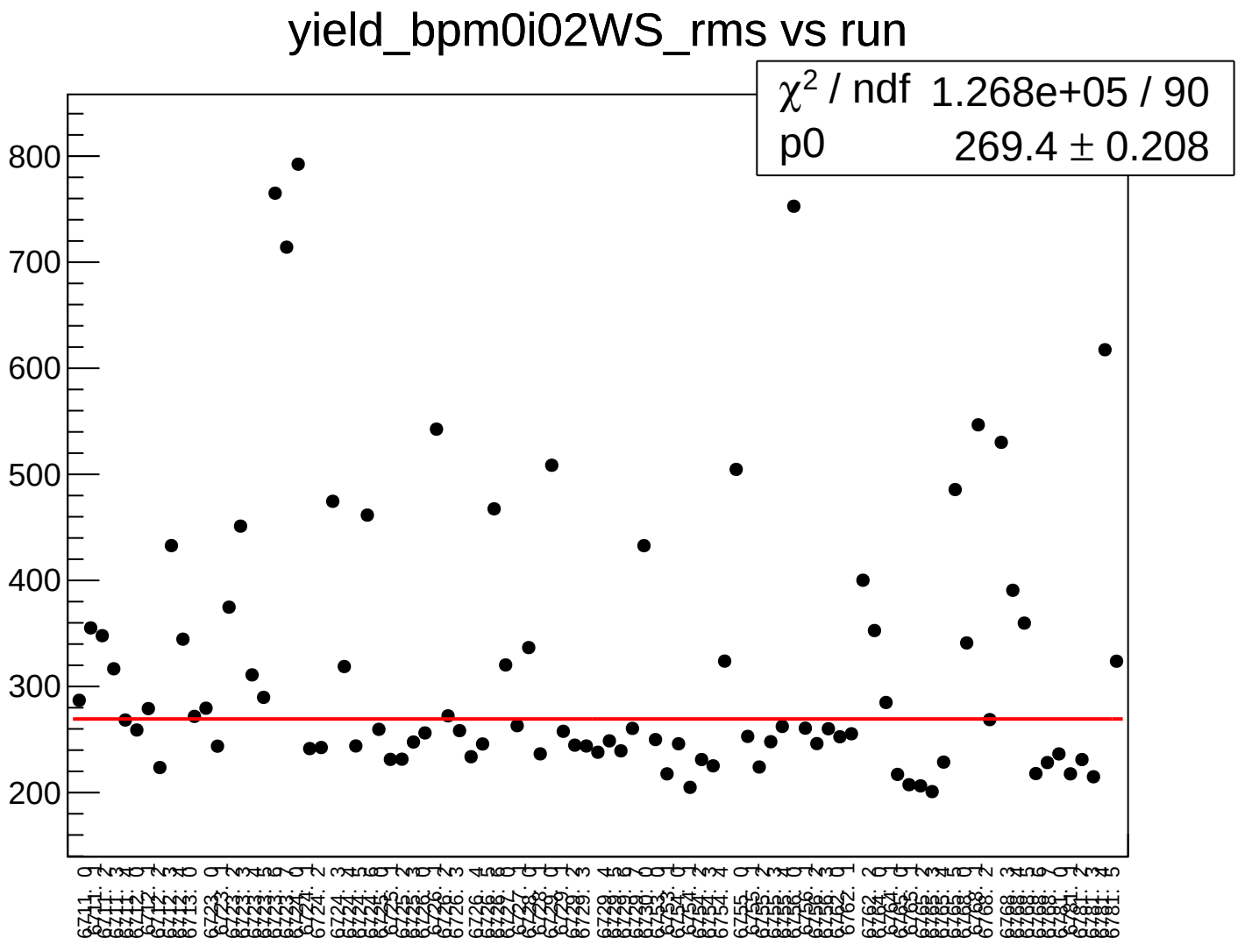

yield_bpm0r03WS_rms vs run
χ^2 / ndf 1.559e+05 / 90
p0 388.2 ± 0.3024
3500
3000
2500
2000
1500
1000
500

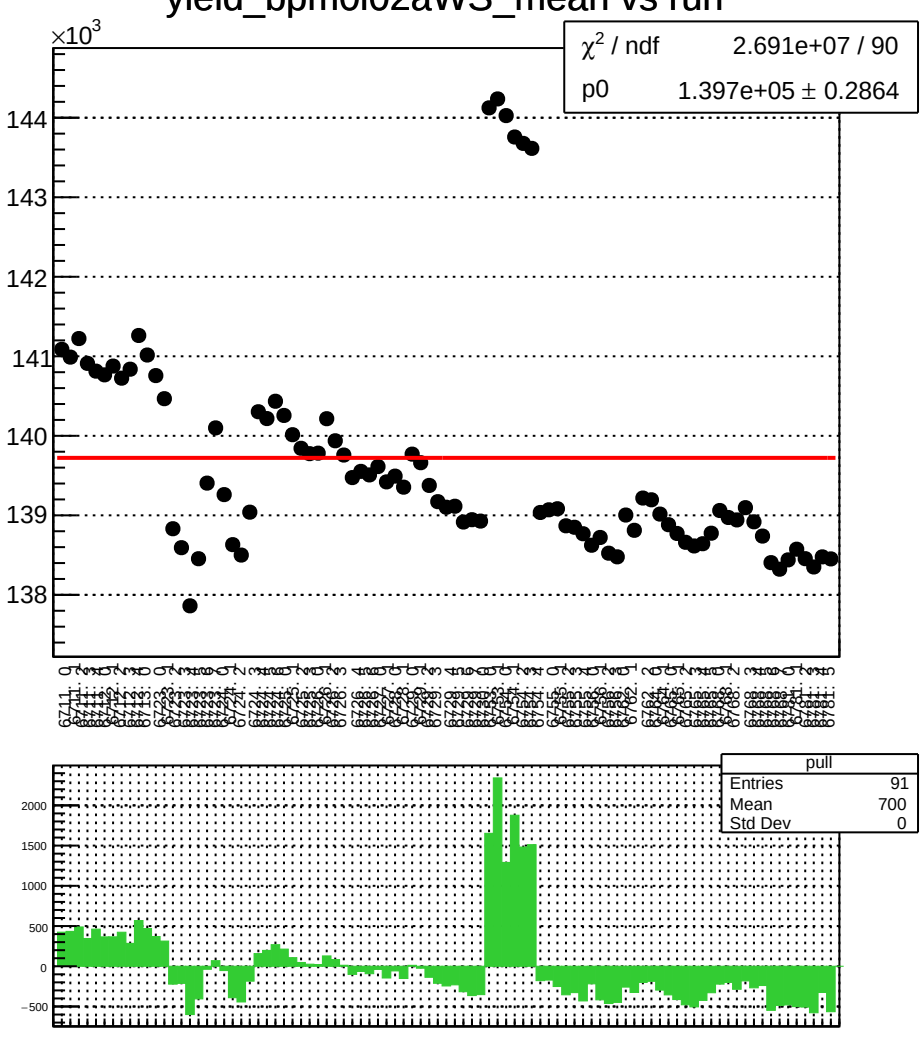

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 4.663e+07 / 90
p0 1.339e+05 ± 0.3332
pull
Entries 91
Mean 138.7
Std Dev 0
pull1D
Entries 91
Mean 0
Std Dev 0

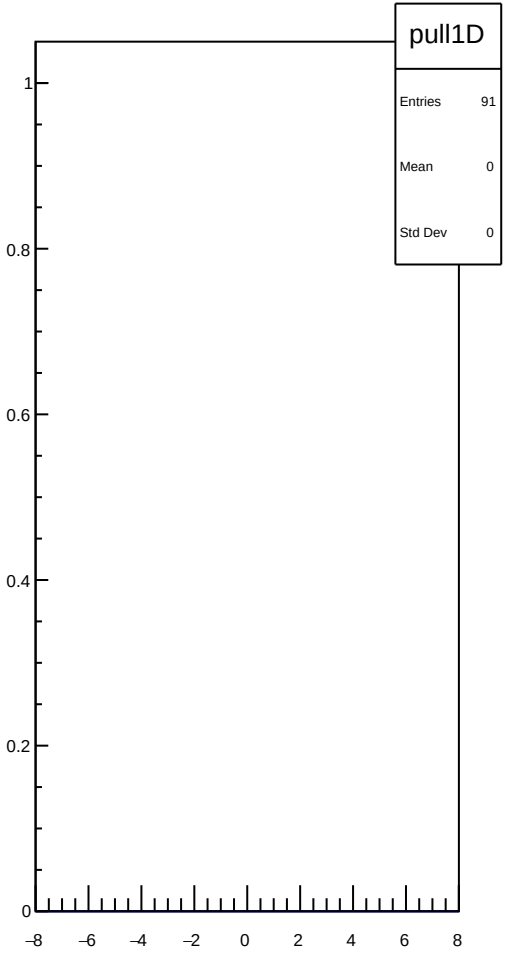

yield_bpm0r05WS_rms vs run
χ² / ndf 1.709e+05 / 90
p0 301.1 ± 0.2356
1800
1600
1400
1200
1000
800
600
400
200

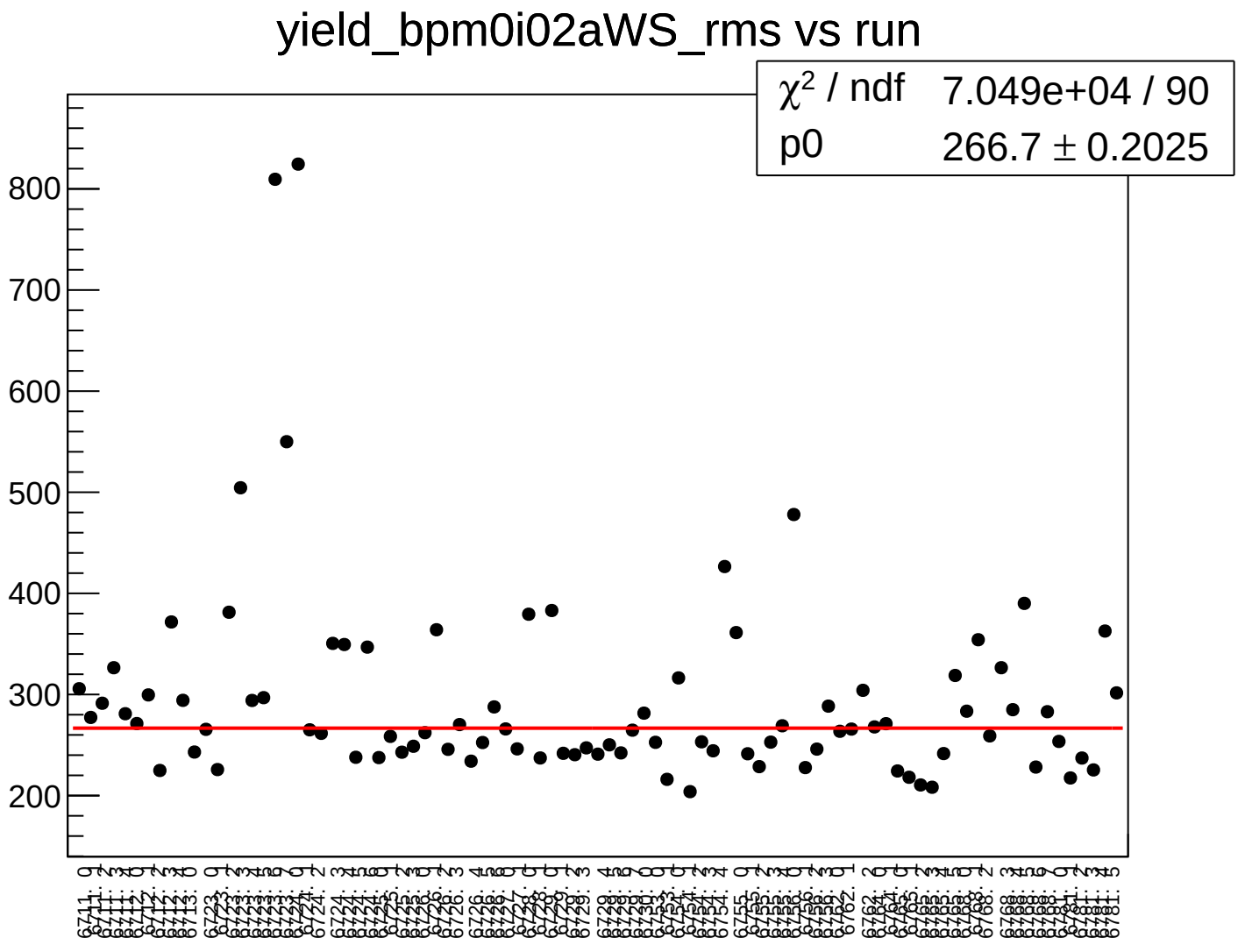

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 1.031e+07 / 90
p0 1.39e+05 ± 0.2941
140.5
140
139.5
139
138.5
138
137.5
137
136.5
pull
Entries 91
Mean 125.3
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200

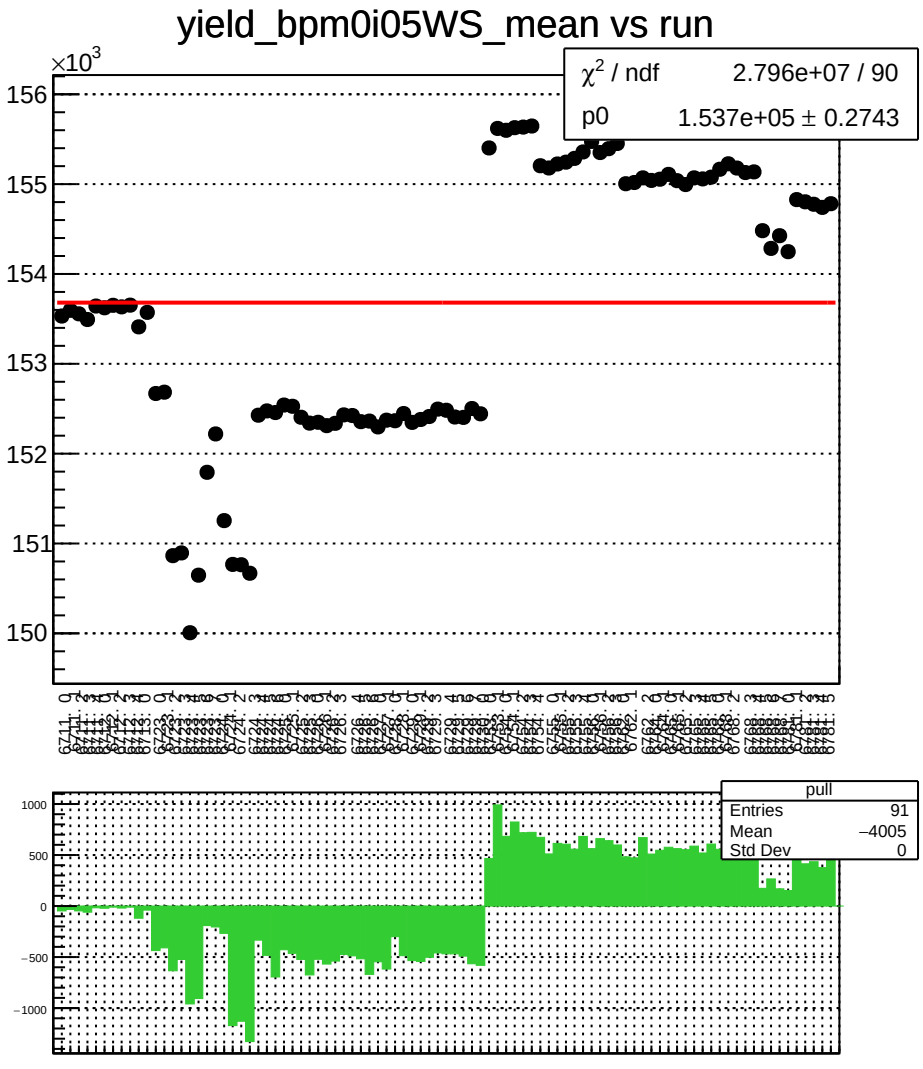

pull1D
Entries 91
Mean −2.453
Std Dev 2.696
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

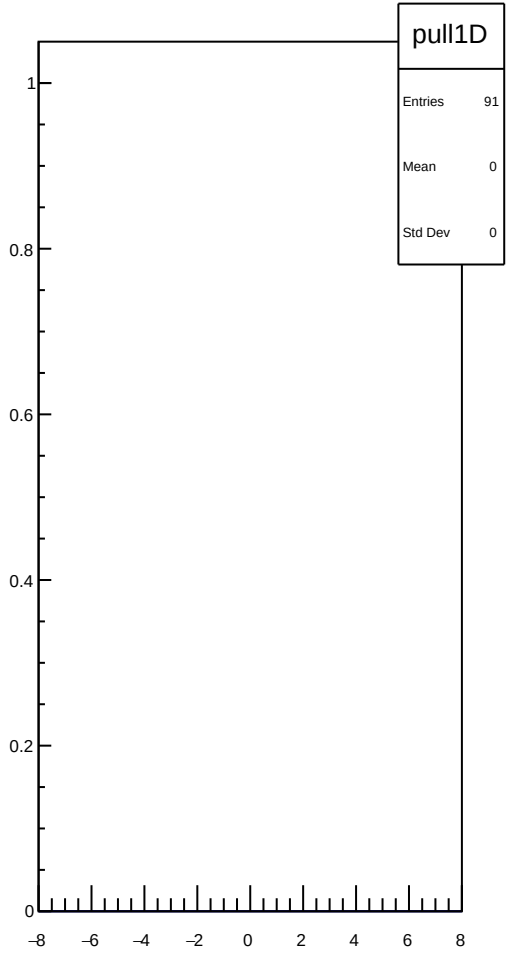

yield_bpm0i02WS_rms vs run
χ² / ndf 1.268e+05 / 90
p0 269.4 ± 0.208
800
700
600
500
400
300
200

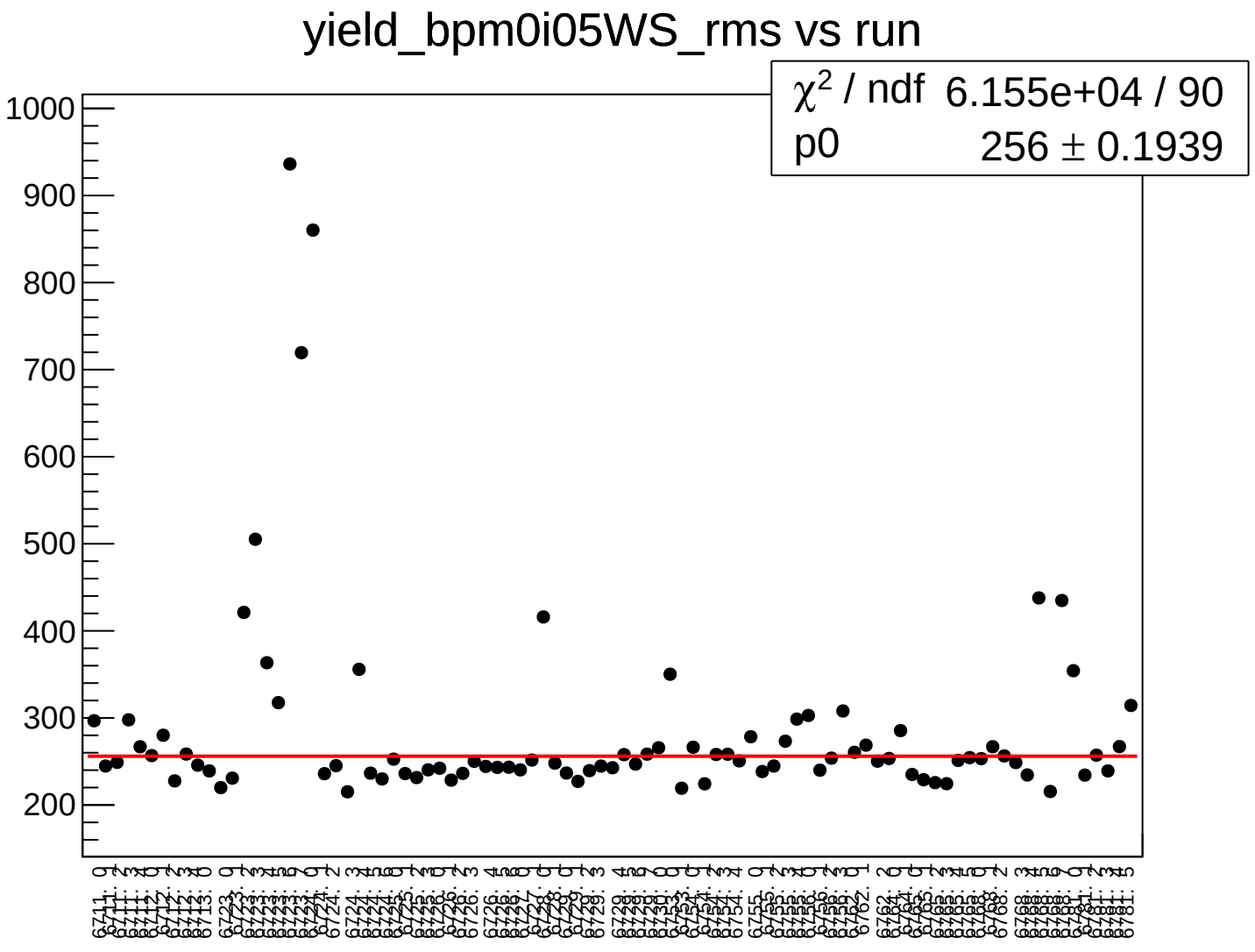

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 2.691e+07 / 90
p0 1.397e+05 ± 0.2864
144
143
142
141
140
139
138
pull
Entries 91
Mean 700
Std Dev 0
2000
1500
1000
500
0
−500

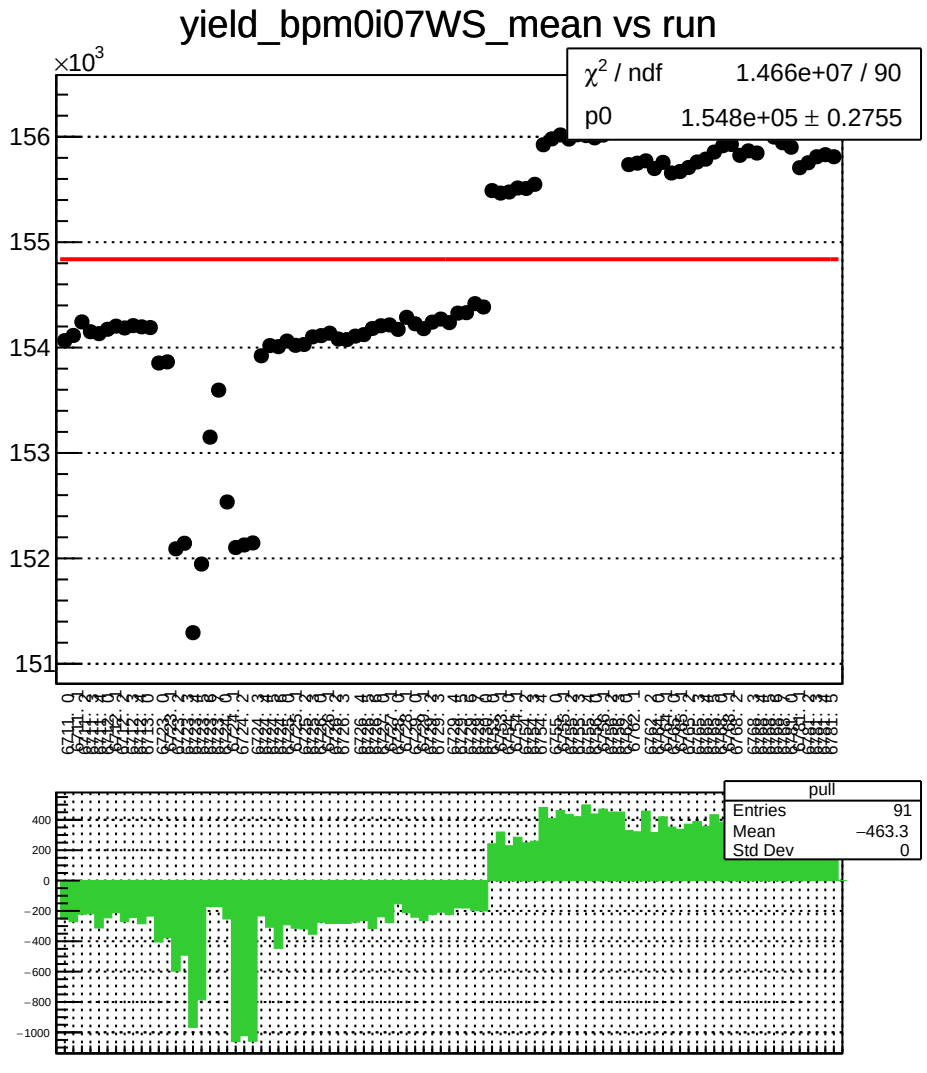

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

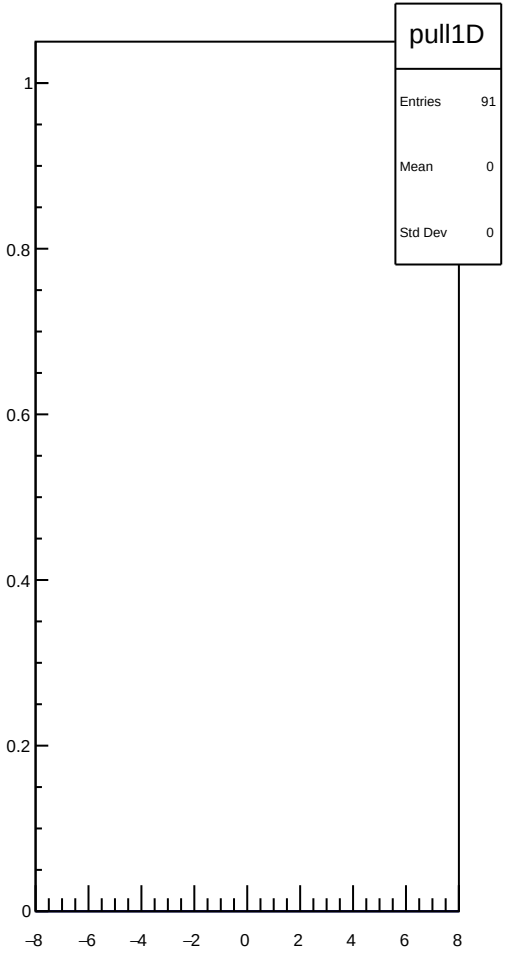

yield_bpm0i02aWS_rms vs run
χ² / ndf 7.049e+04 / 90
p0 266.7 ± 0.2025
800
700
600
500
400
300
200

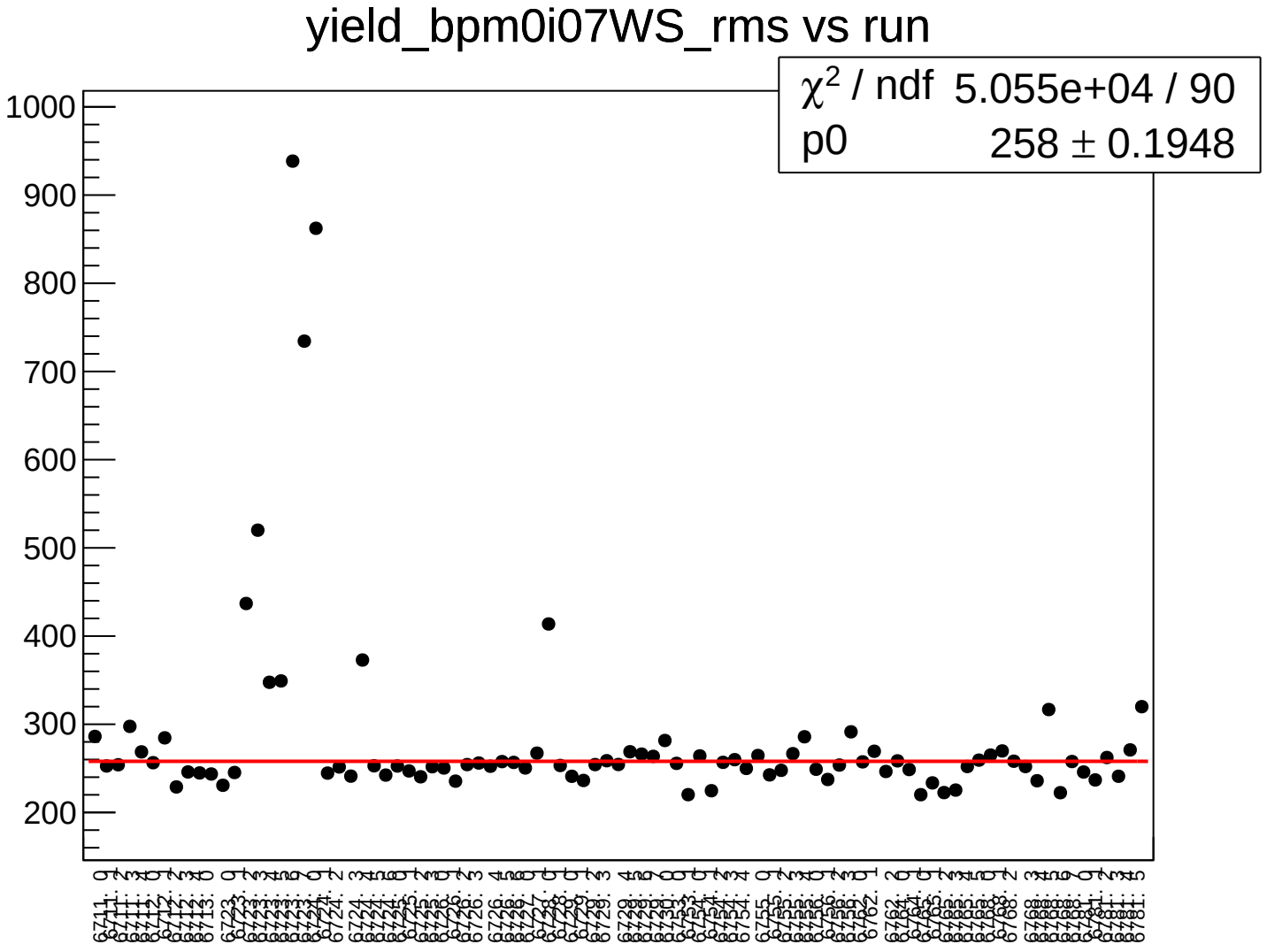

yield_bpm0i05WS_mean vs run
×10^3
156
155
154
153
152
151
150
χ² / ndf 2.796e+07 / 90
p0 1.537e+05 ± 0.2743
1000
500
0
−500
−1000
pull
Entries 91
Mean −4005
Std Dev 0

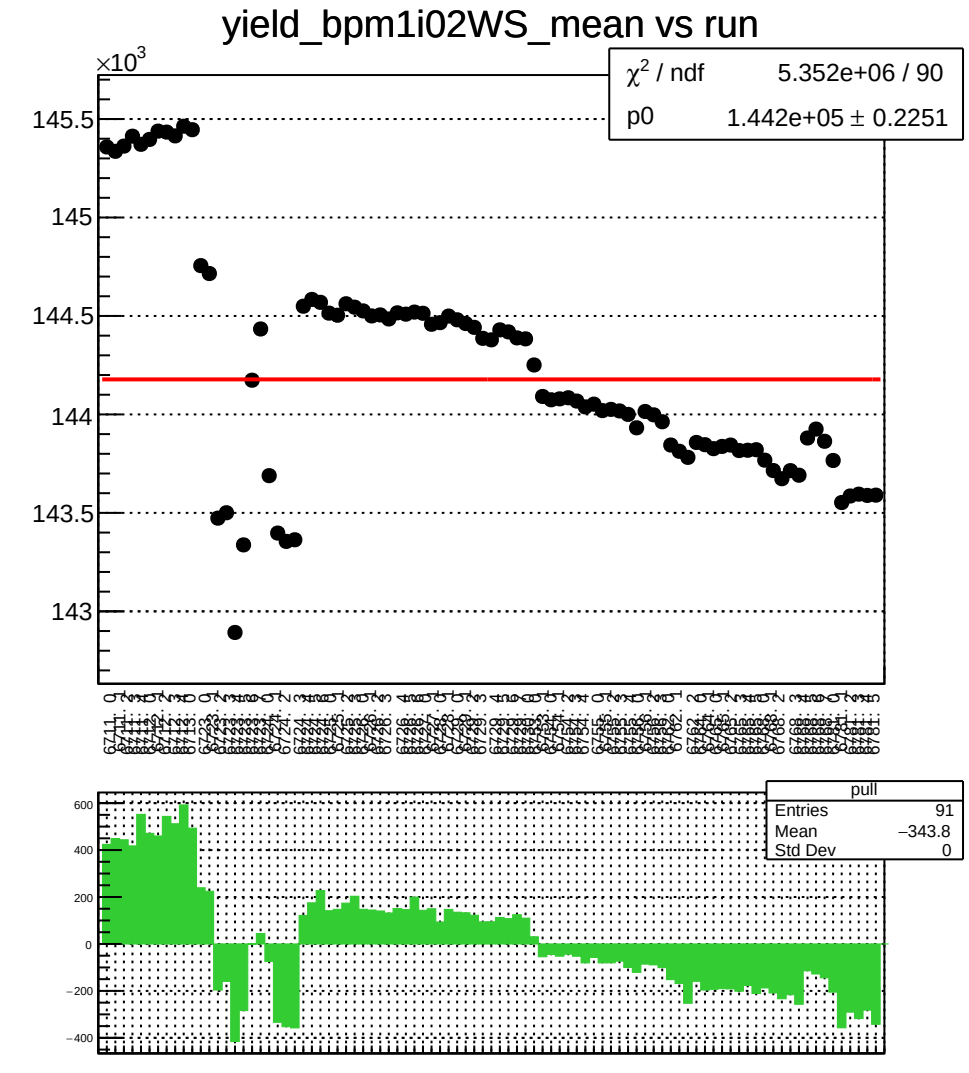

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

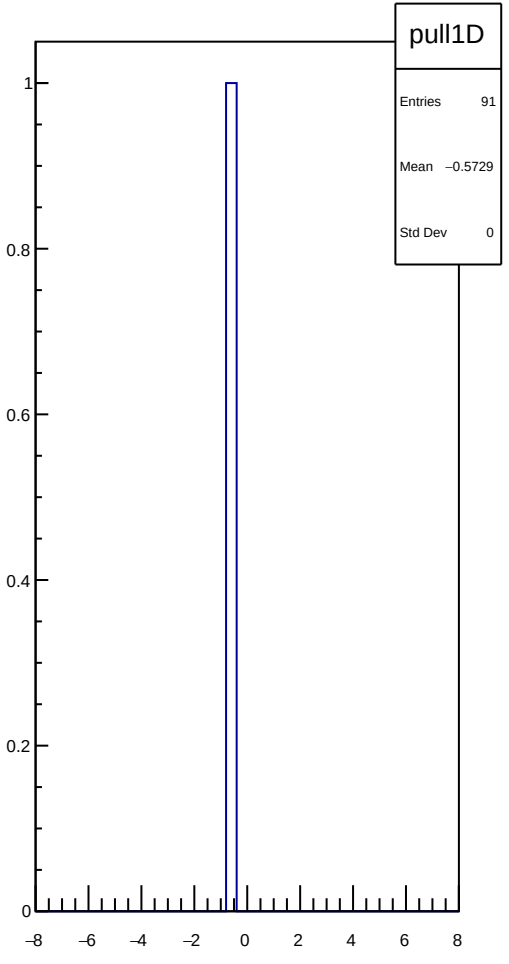

yield_bpm0i05WS_rms vs run
χ² / ndf 6.155e+04 / 90
p0 256 ± 0.1939
1000
900
800
700
600
500
400
300
200

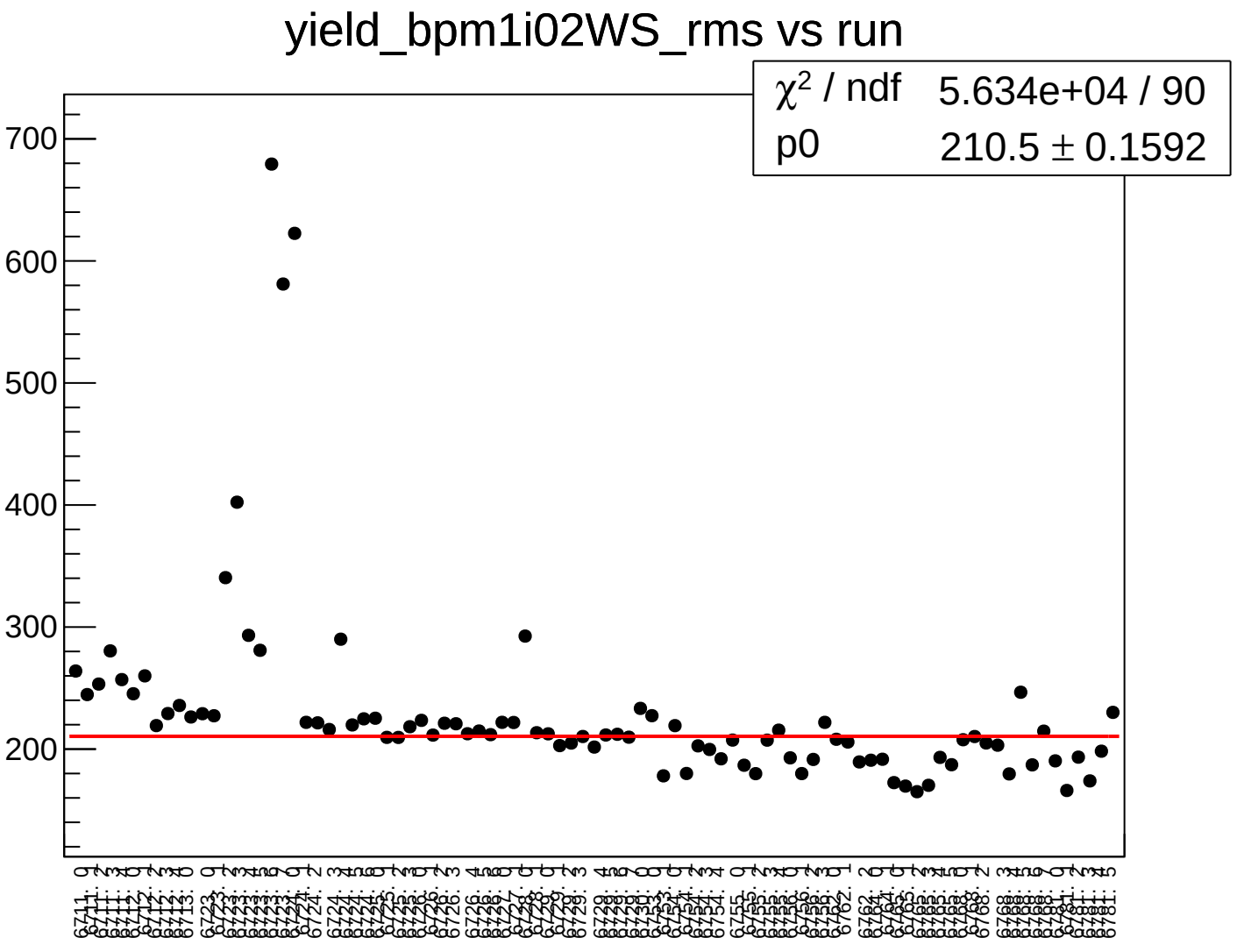

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.466e+07 / 90
p0 1.548e+05 ± 0.2755
156
155
154
153
152
151
pull
Entries 91
Mean −463.3
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000

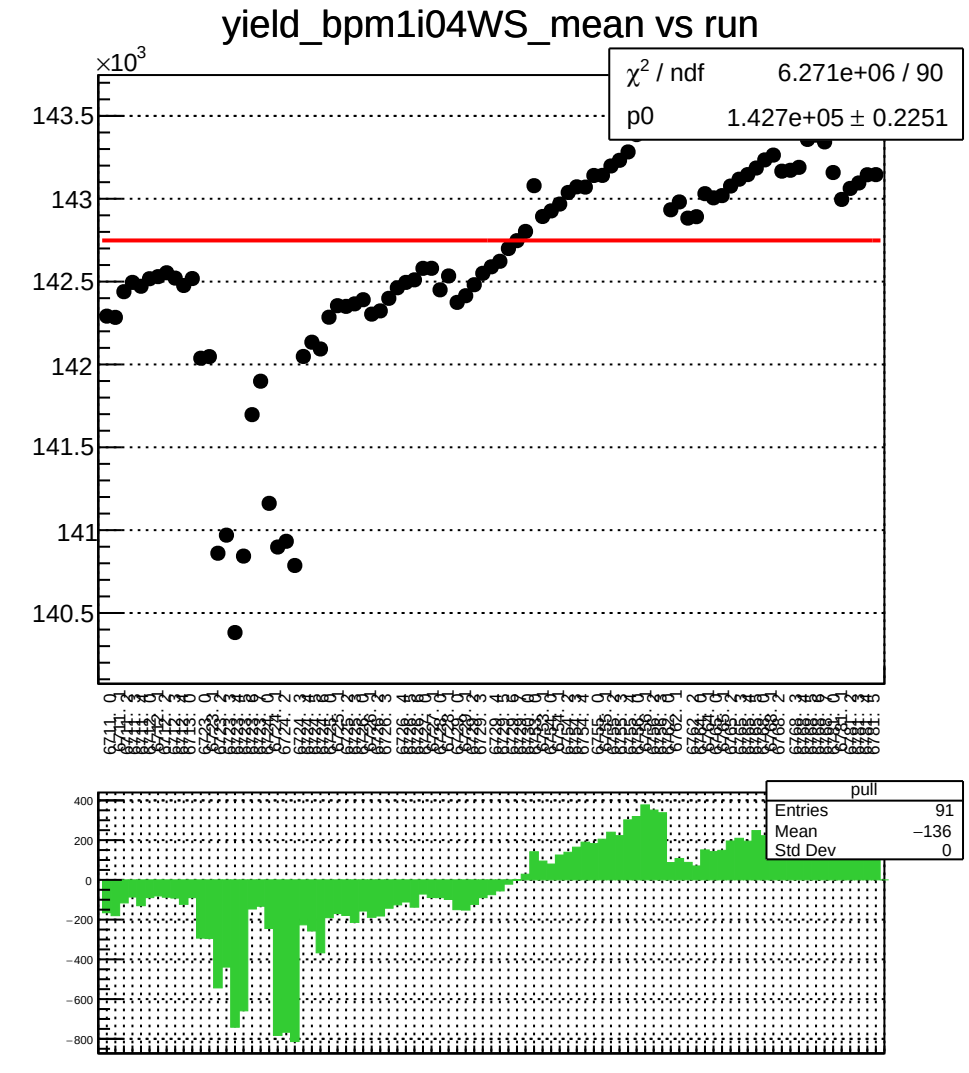

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

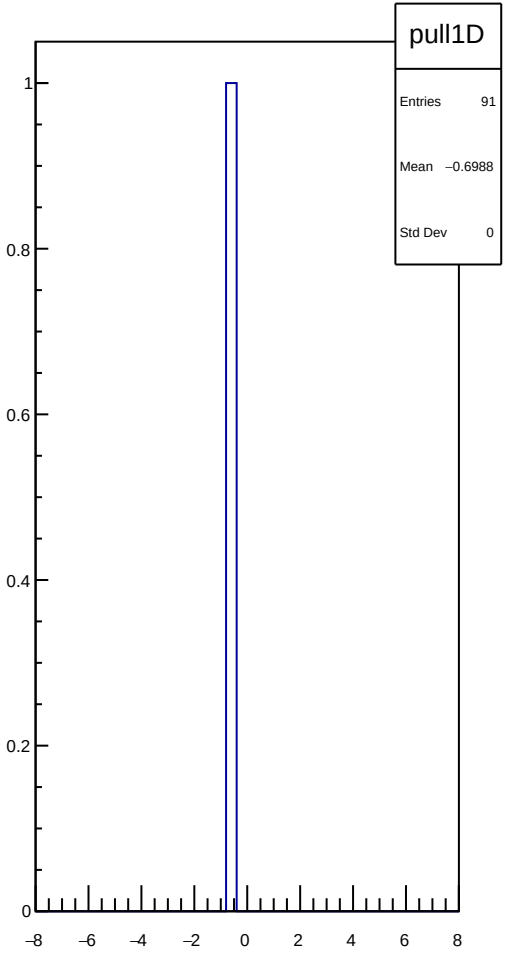

yield_bpm0i07WS_rms vs run
χ² / ndf 5.055e+04 / 90
p0 258 ± 0.1948
1000
900
800
700
600
500
400
300
200

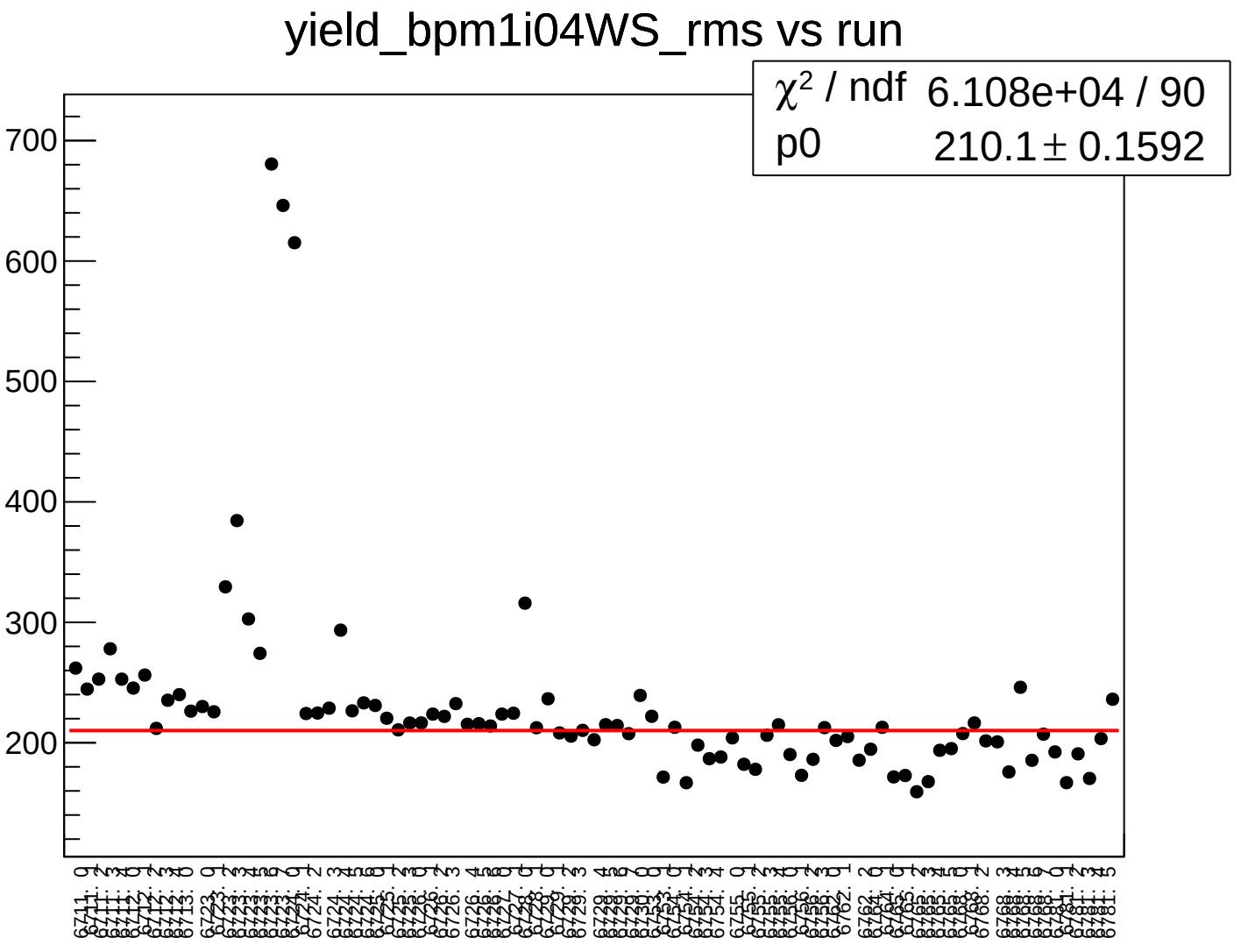

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 5.352e+06 / 90
p0 1.442e+05 ± 0.2251
145.5
145
144.5
144
143.5
143
pull
Entries 91
Mean −343.8
Std Dev 0
600
400
200
0
−200
−400

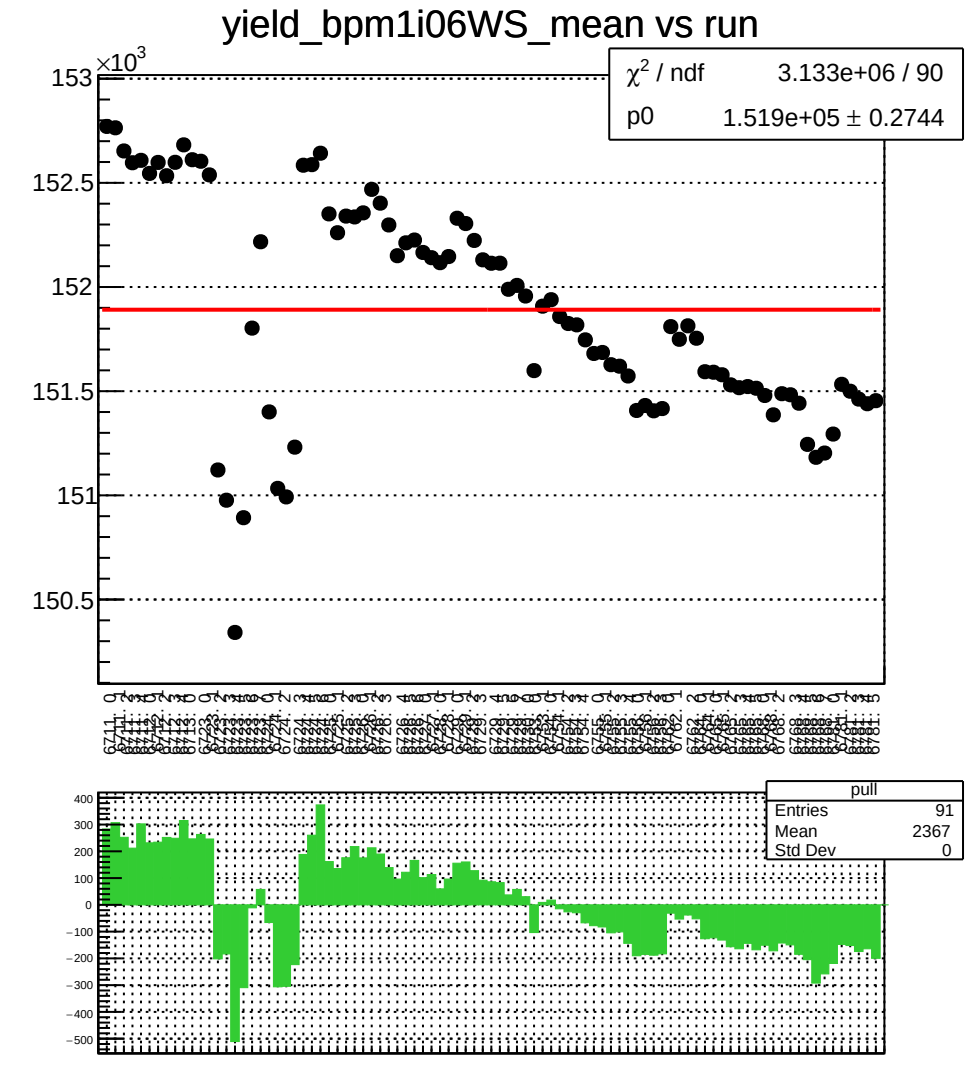

pull1D
Entries 91
Mean −0.5729
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

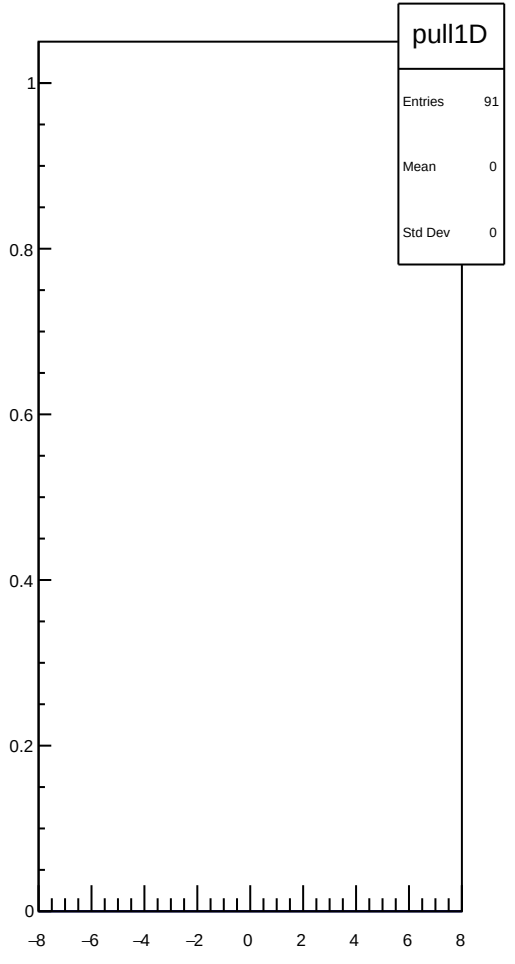

yield_bpm1i02WS_rms vs run
χ² / ndf 5.634e+04 / 90
p0 210.5 ± 0.1592
700
600
500
400
300
200

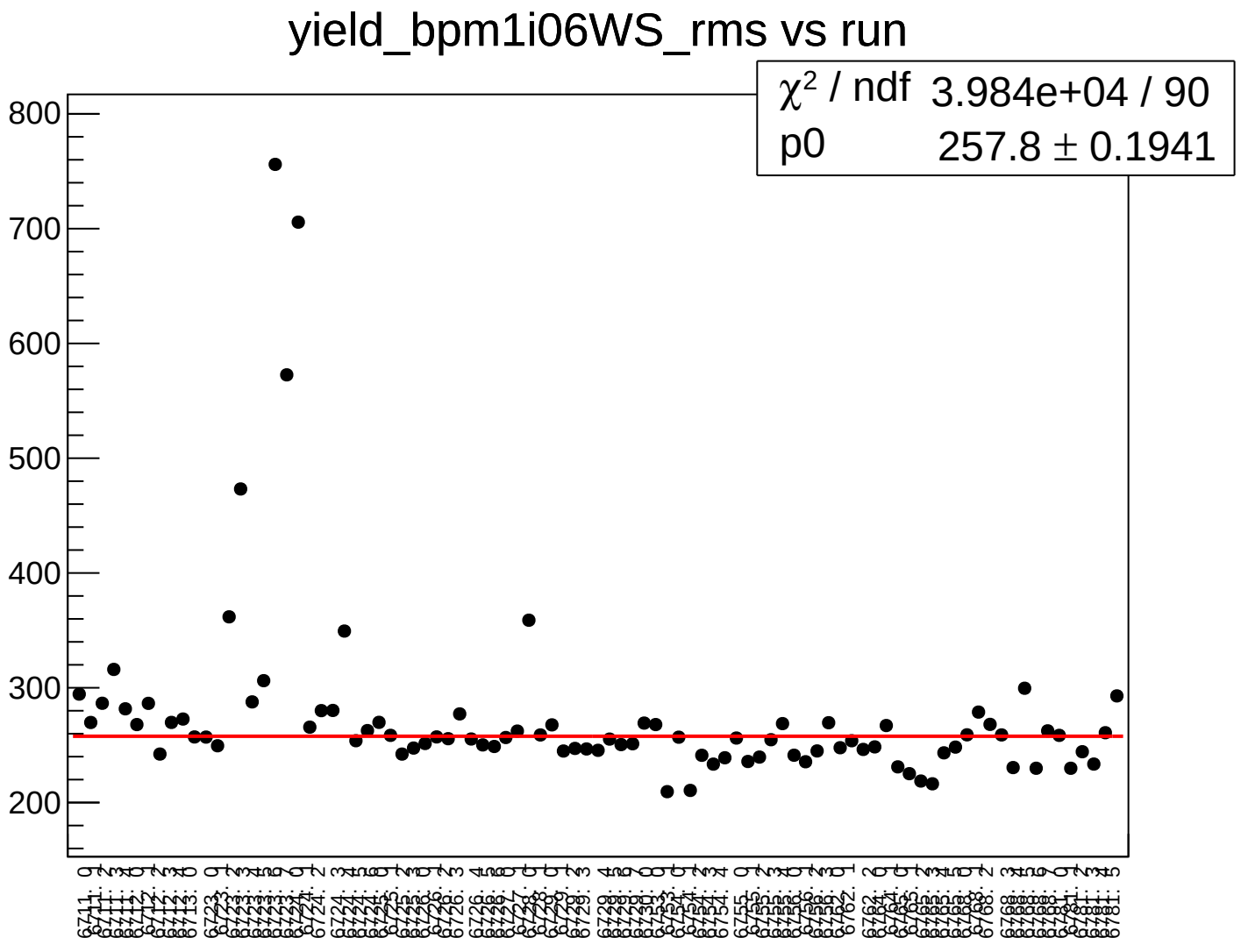

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 6.271e+06 / 90
p0 1.427e+05 ± 0.2251
143.5
143
142.5
142
141.5
141
140.5
pull
Entries 91
Mean −136
Std Dev 0
400
200
0
−200
−400
−600
−800

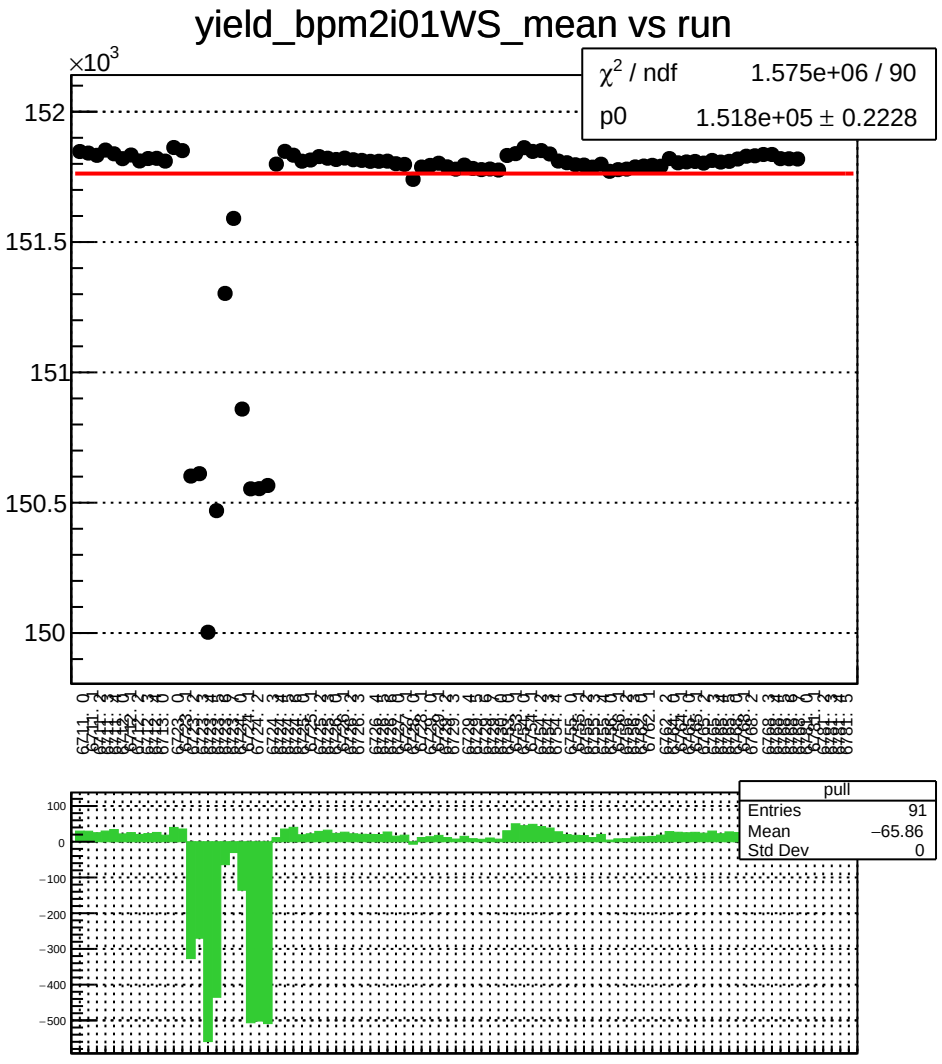

pull1D
Entries 91
Mean −0.6988
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

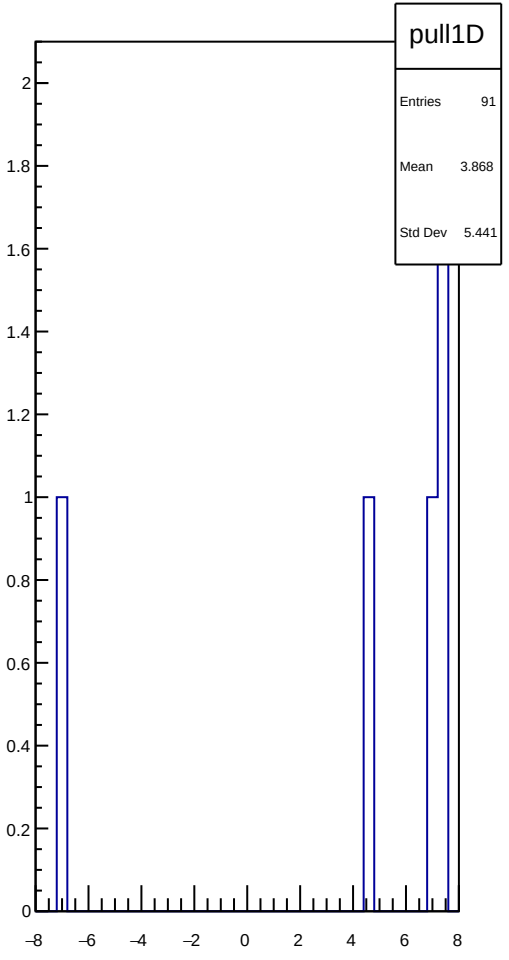

yield_bpm1i04WS_rms vs run
χ² / ndf 6.108e+04 / 90
p0 210.1 ± 0.1592
700
600
500
400
300
200

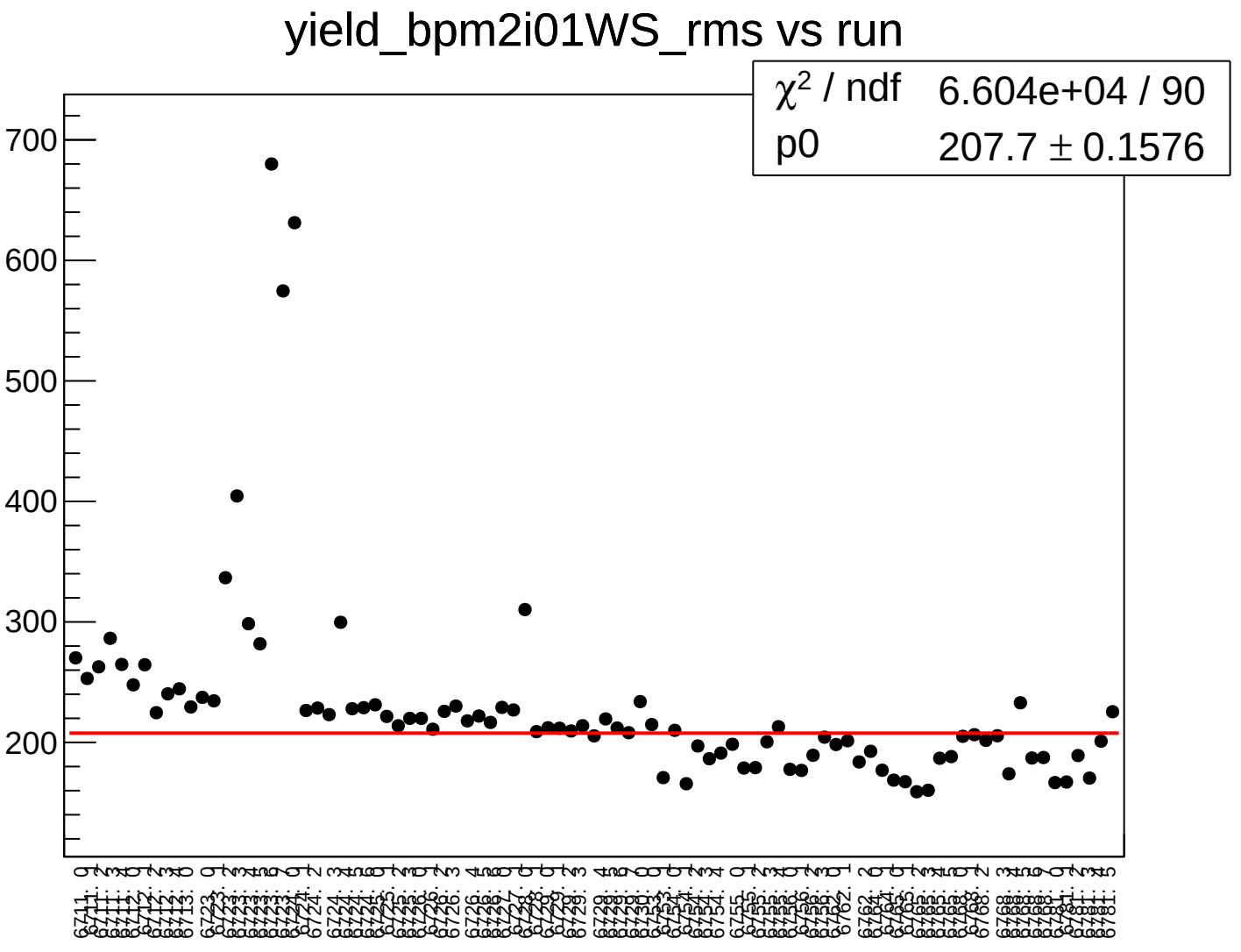

yield_bpm1i06WS_mean vs run
×10^3
153
152.5
152
151.5
151
150.5
χ² / ndf 3.133e+06 / 90
p0 1.519e+05 ± 0.2744
pull
Entries 91
Mean 2367
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
−500

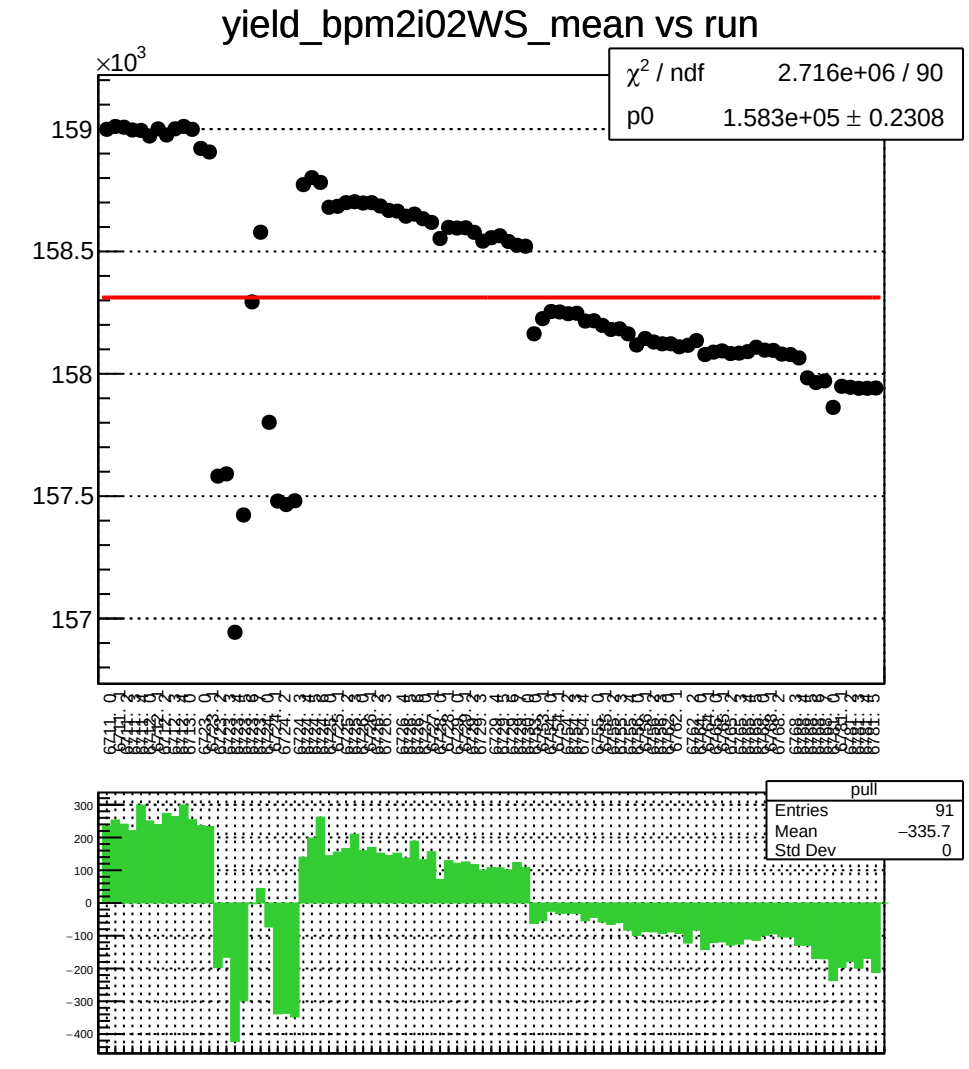

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

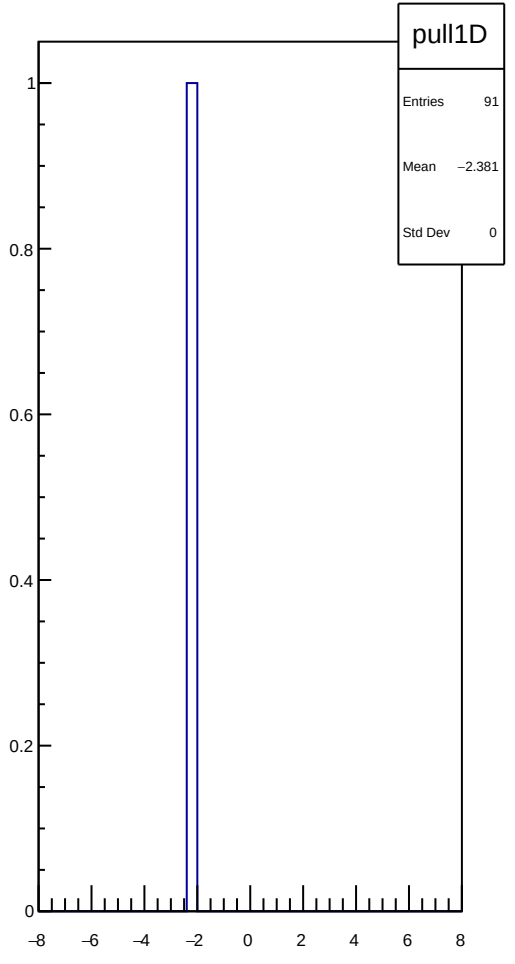

yield_bpm1i06WS_rms vs run
χ² / ndf 3.984e+04 / 90
p0 257.8 ± 0.1941
800
700
600
500
400
300
200

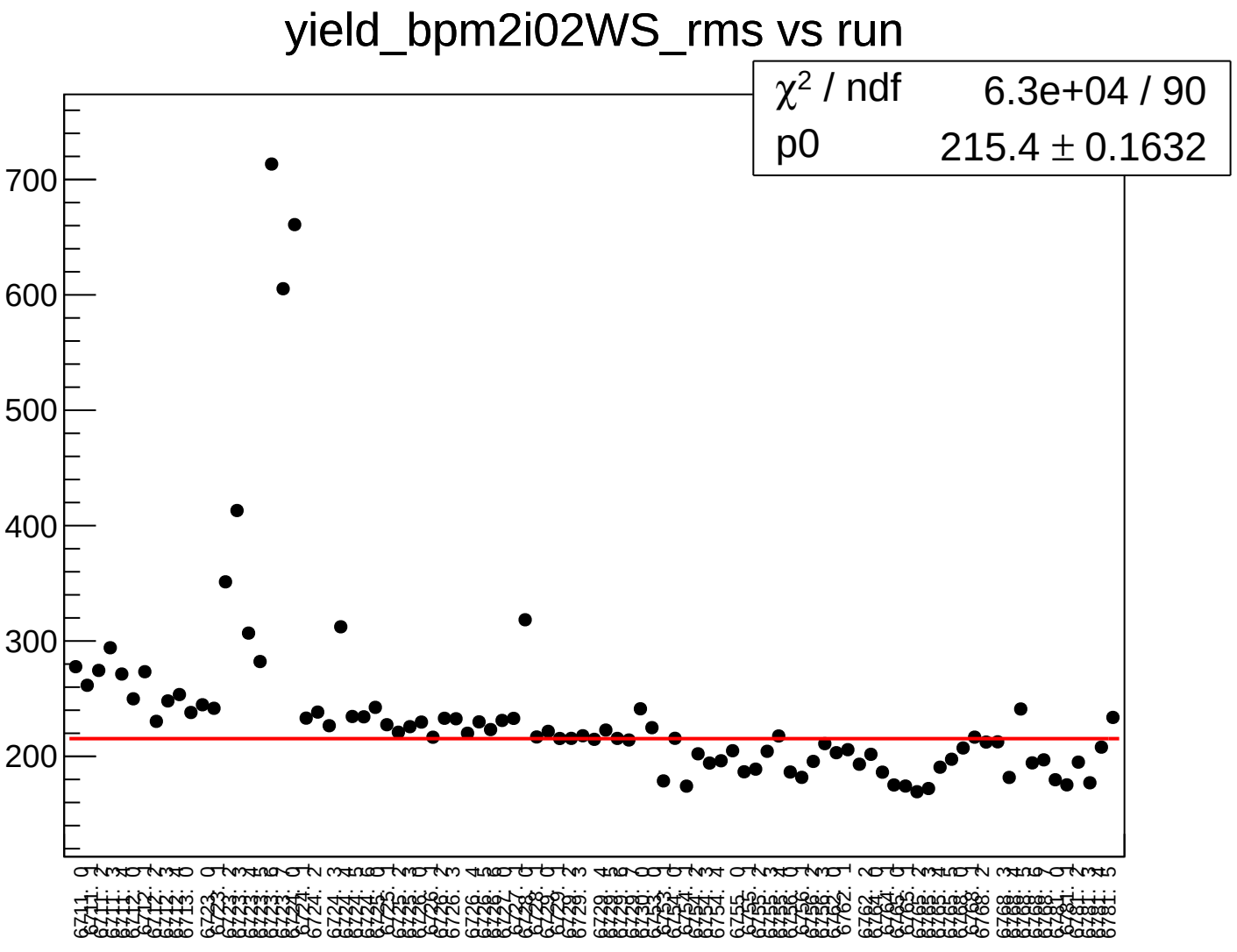

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.575e+06 / 90
p0 1.518e+05 ± 0.2228
152
151.5
151
150.5
150
pull
Entries 91
Mean −65.86
Std Dev 0
100
0
−100
−200
−300
−400
−500

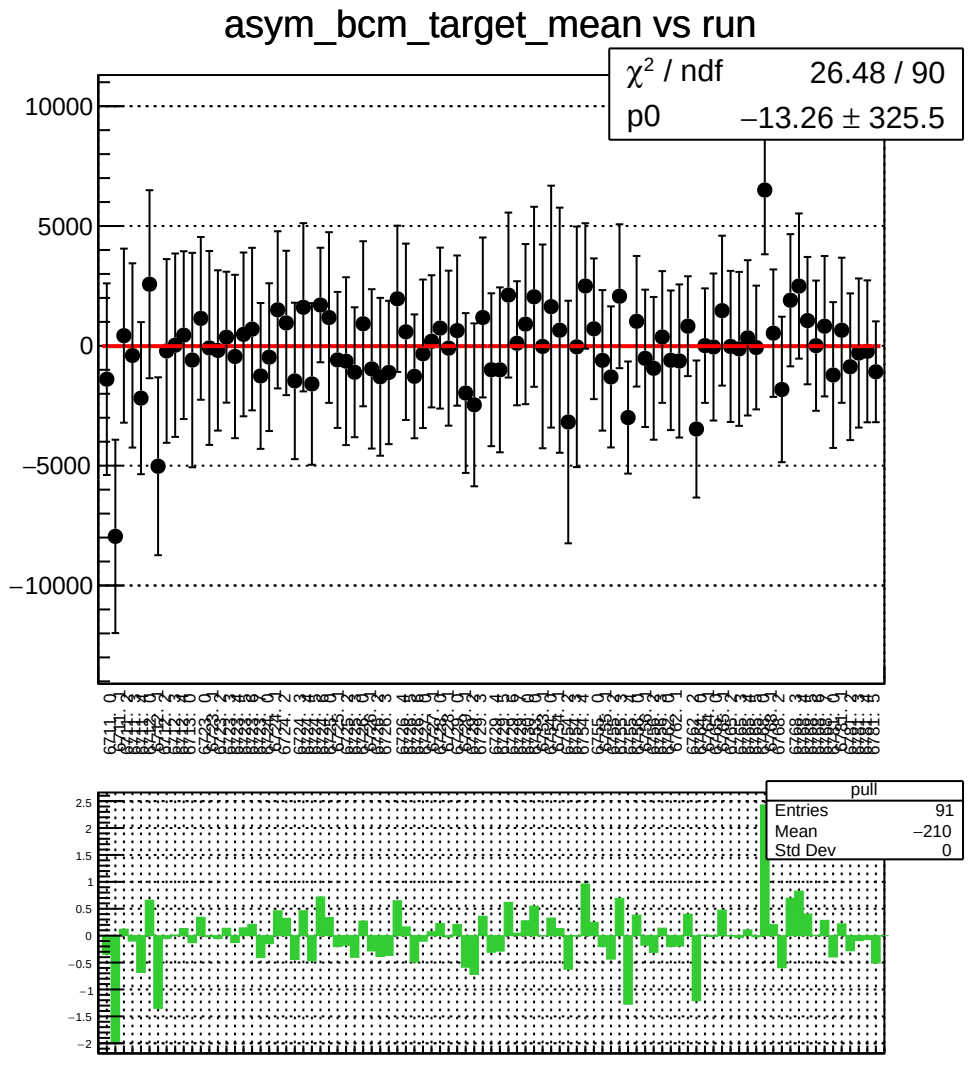

pull1D
Entries 91
Mean 3.868
Std Dev 5.441
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

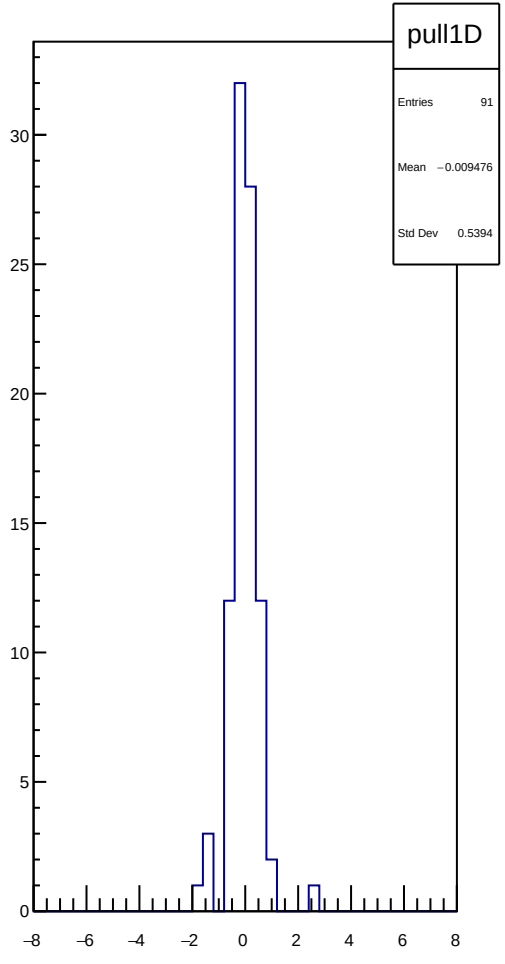

yield_bpm2i01WS_rms vs run
χ² / ndf 6.604e+04 / 90
p0 207.7 ± 0.1576
700
600
500
400
300
200

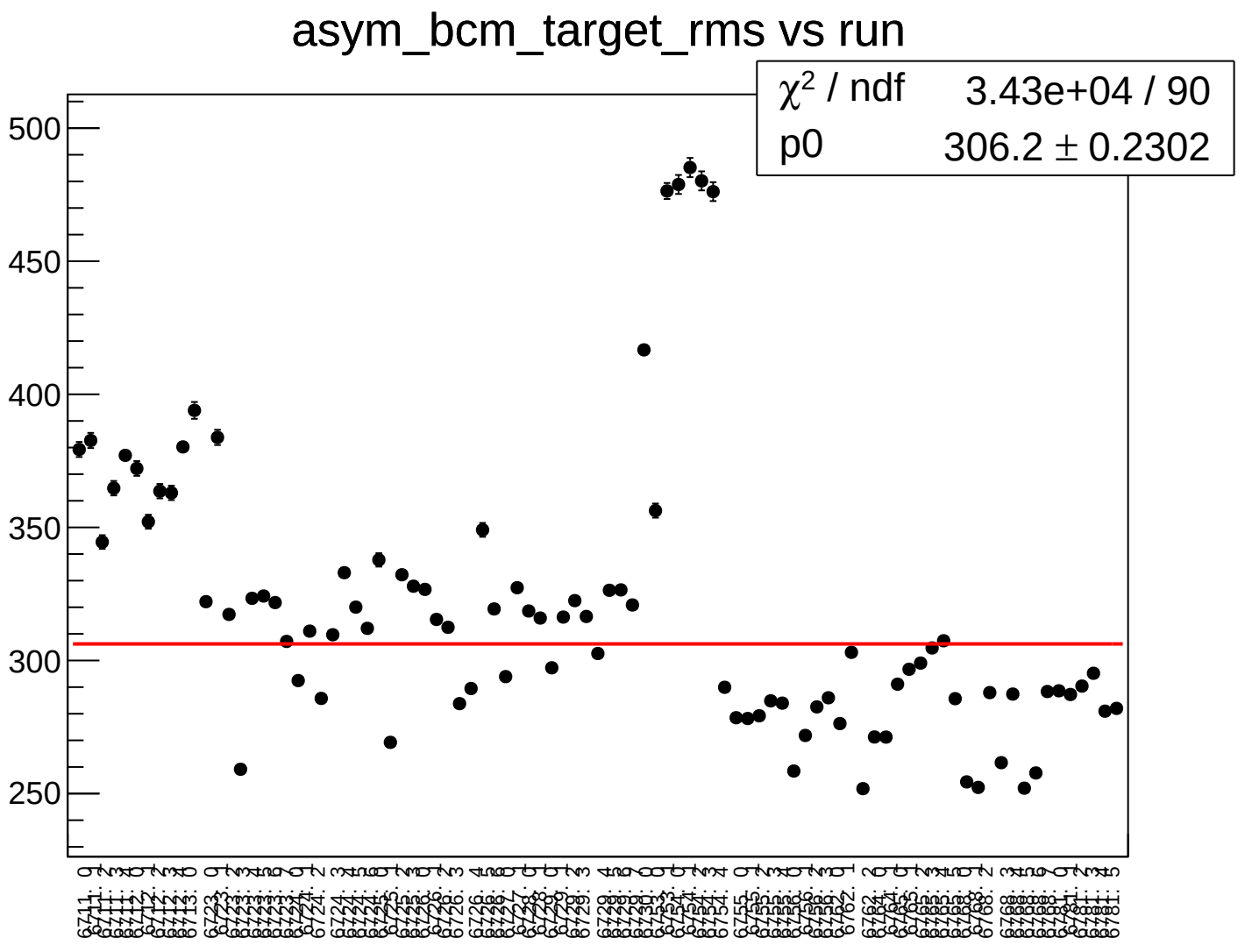

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 2.716e+06 / 90
p0 1.583e+05 ± 0.2308
159
158.5
158
157.5
157
pull
Entries 91
Mean −335.7
Std Dev 0
300
200
100
0
−100
−200
−300
−400

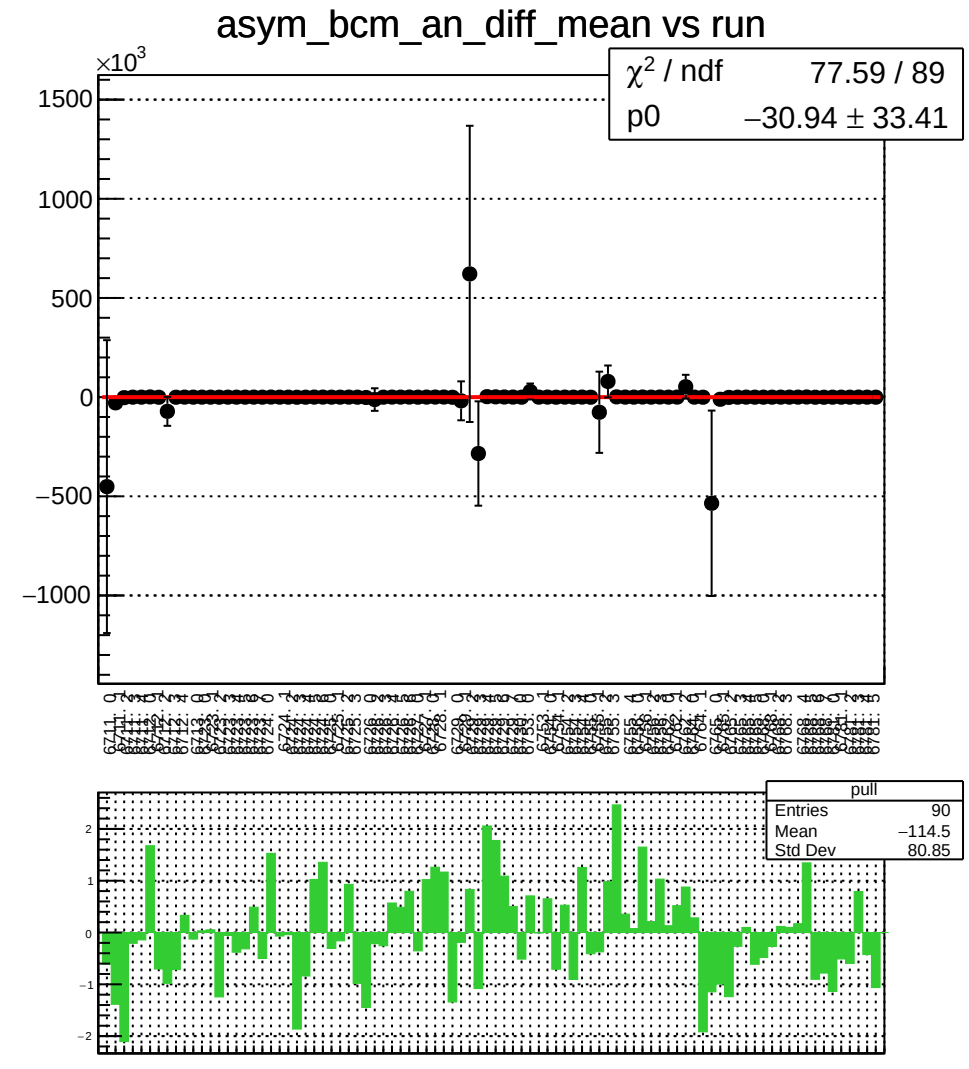

pull1D
Entries 91
Mean −2.381
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

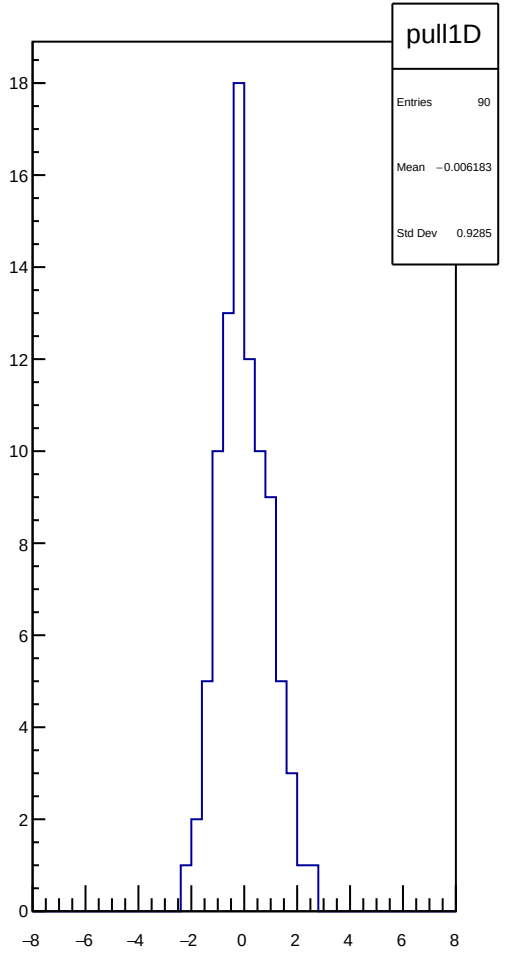

yield_bpm2i02WS_rms vs run
χ² / ndf 6.3e+04 / 90
p0 215.4 ± 0.1632
700
600
500
400
300
200

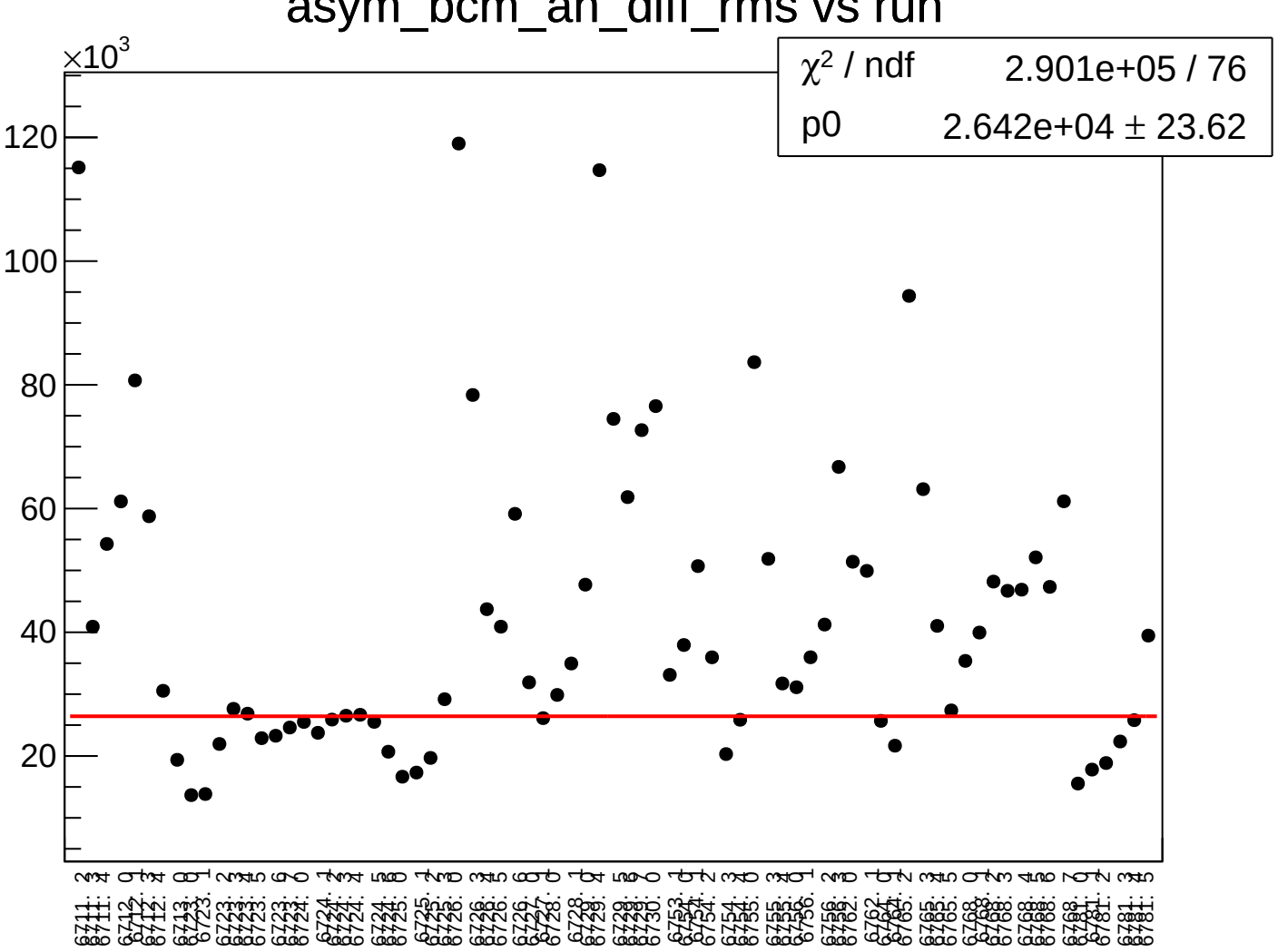

asym_bcm_target_mean vs run
χ² / ndf 26.48 / 90
p0 −13.26 ± 325.5
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −210
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

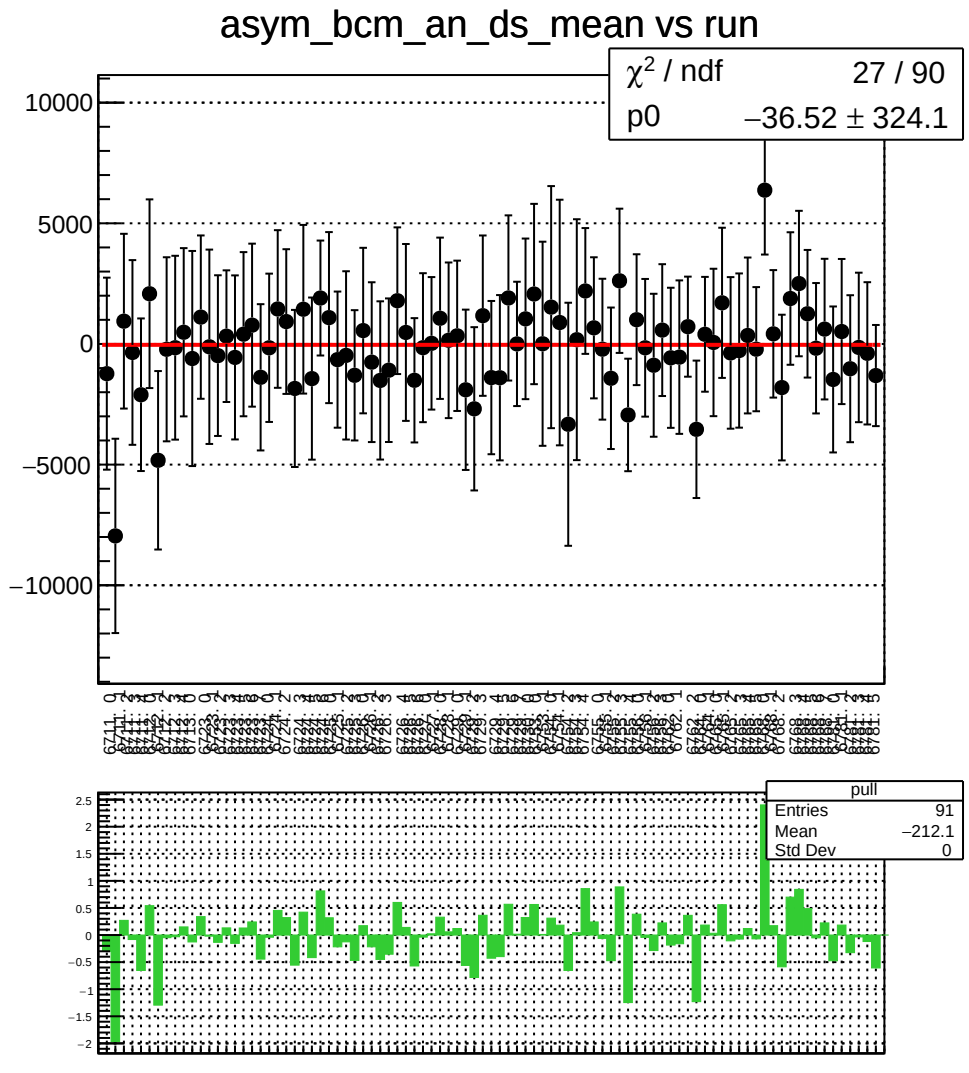

pull1D
Entries 91
Mean −0.009476
Std Dev 0.5394
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

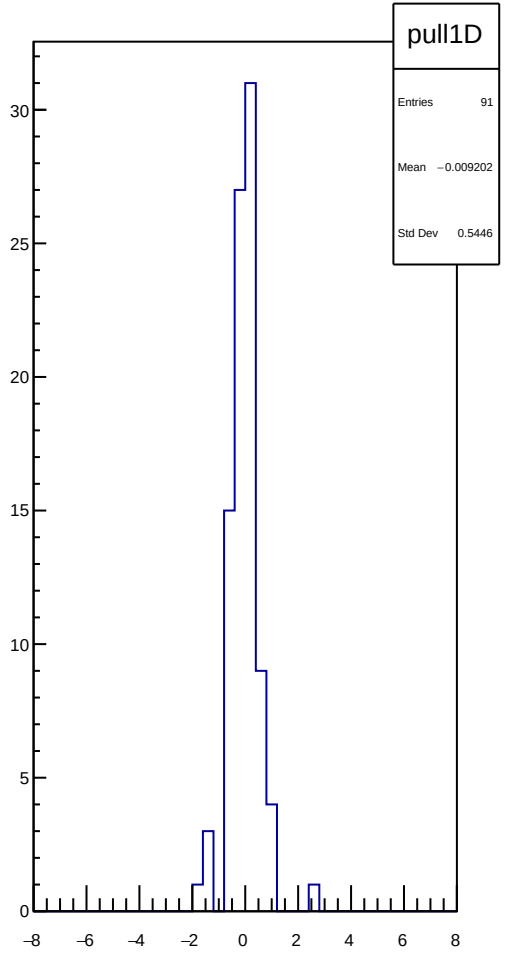

asym_bcm_target_rms vs run
χ² / ndf 3.43e+04 / 90
p0 306.2 ± 0.2302
500
450
400
350
300
250

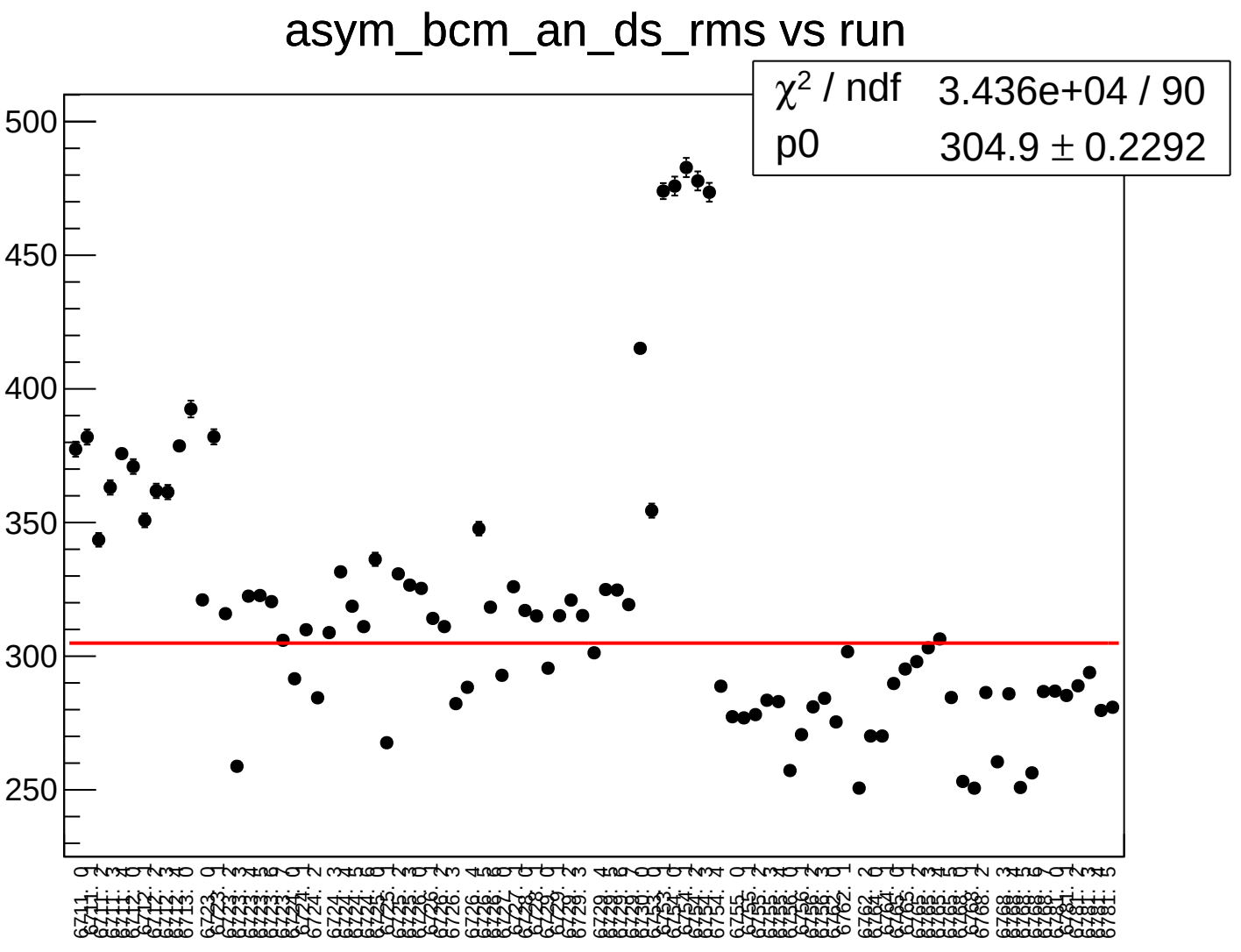

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 77.59 / 89
p0 −30.94 ± 33.41
1500
1000
500
0
−500
−1000
pull
Entries 90
Mean −114.5
Std Dev 80.85
2
1
0
−1
−2

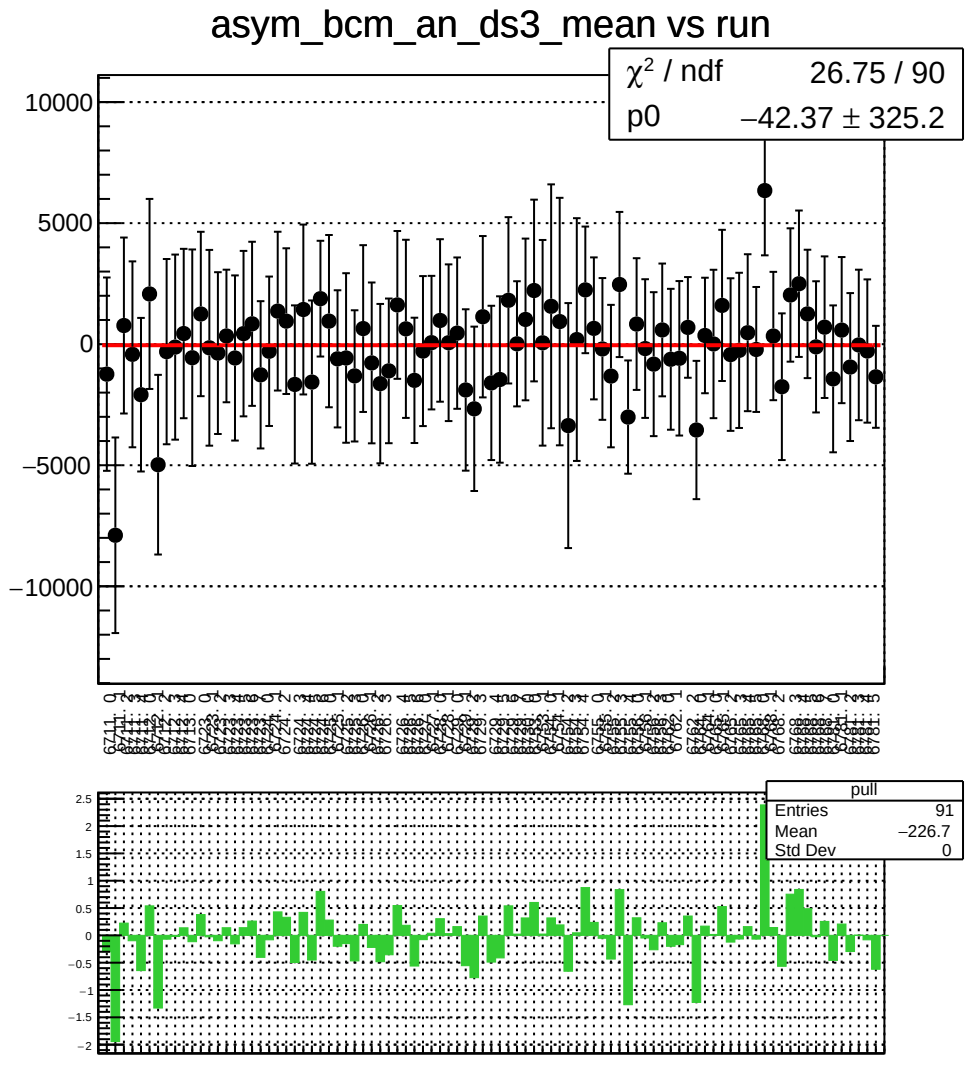

pull1D
Entries 90
Mean −0.006183
Std Dev 0.9285
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

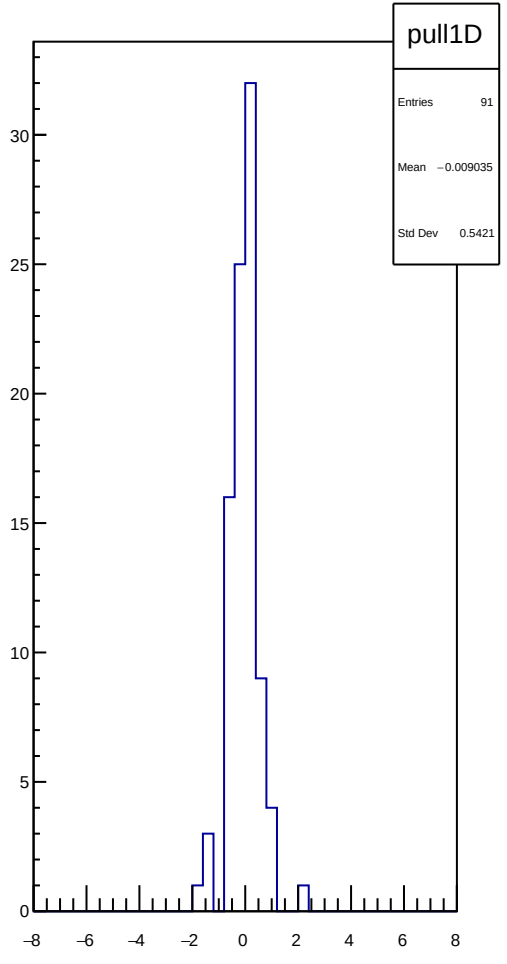

asym_bcm_an_diff_rms vs run
×10^3
120
100
80
60
40
20
χ² / ndf 2.901e+05 / 76
p0 2.642e+04 ± 23.62

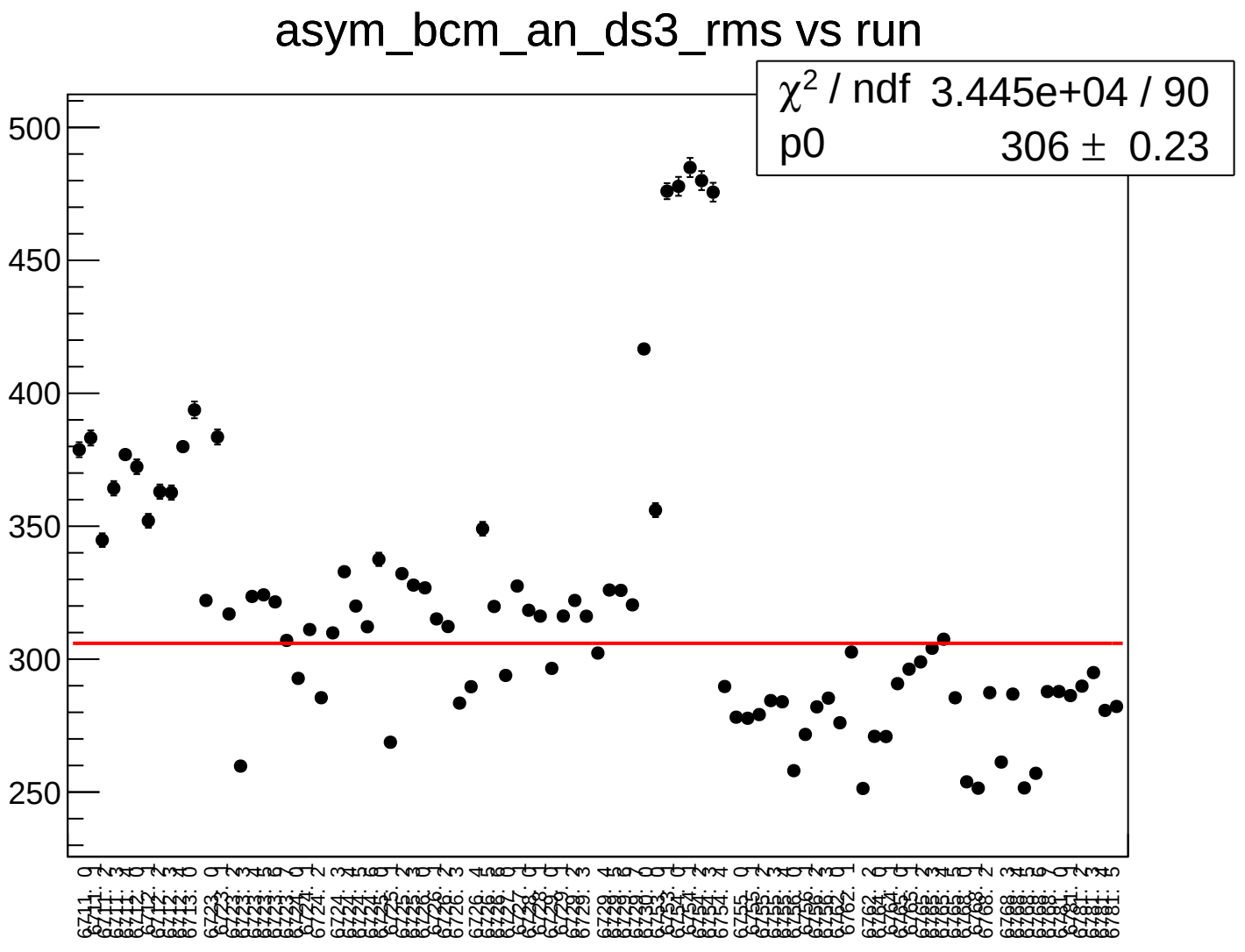

asym_bcm_an_ds_mean vs run
χ² / ndf 27 / 90
p0 −36.52 ± 324.1
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −212.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

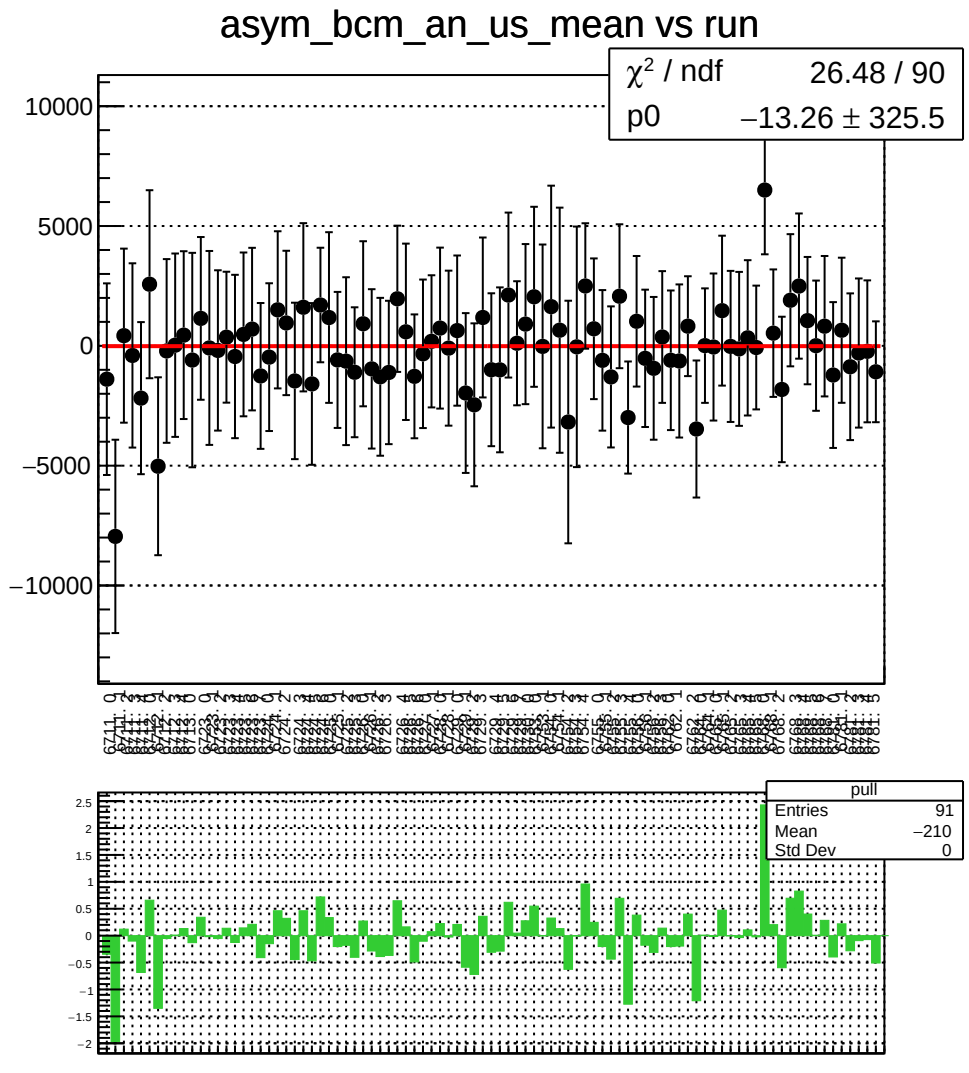

pull1D
Entries 91
Mean −0.009202
Std Dev 0.5446
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

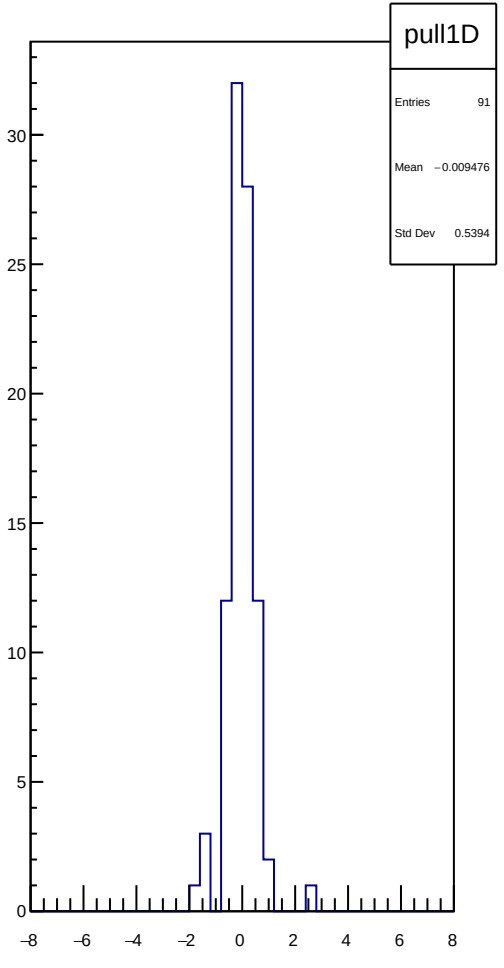

asym_bcm_an_ds_rms vs run
χ² / ndf 3.436e+04 / 90
p0 304.9 ± 0.2292
500
450
400
350
300
250

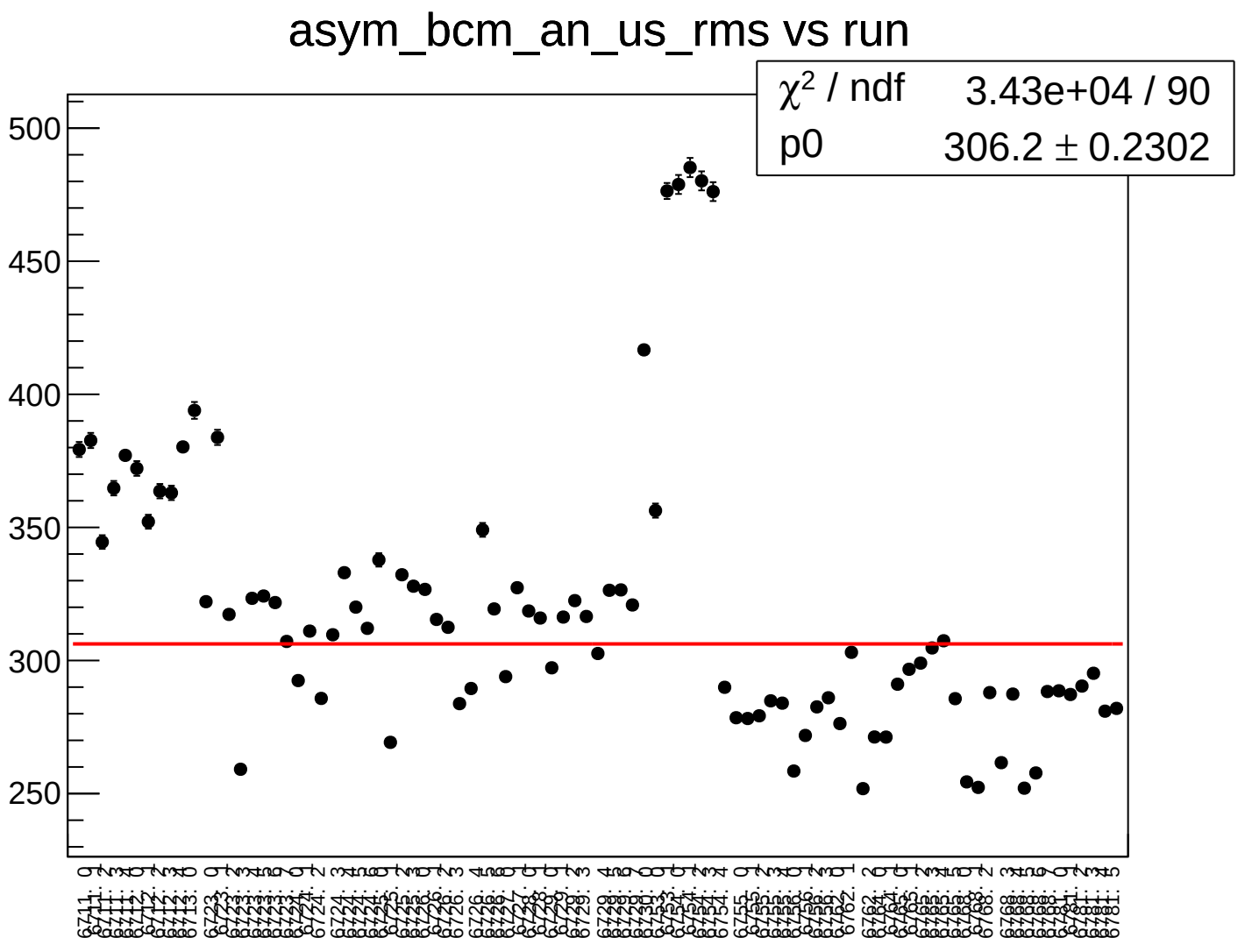

asym_bcm_an_ds3_mean vs run
χ² / ndf 26.75 / 90
p0 −42.37 ± 325.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −226.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

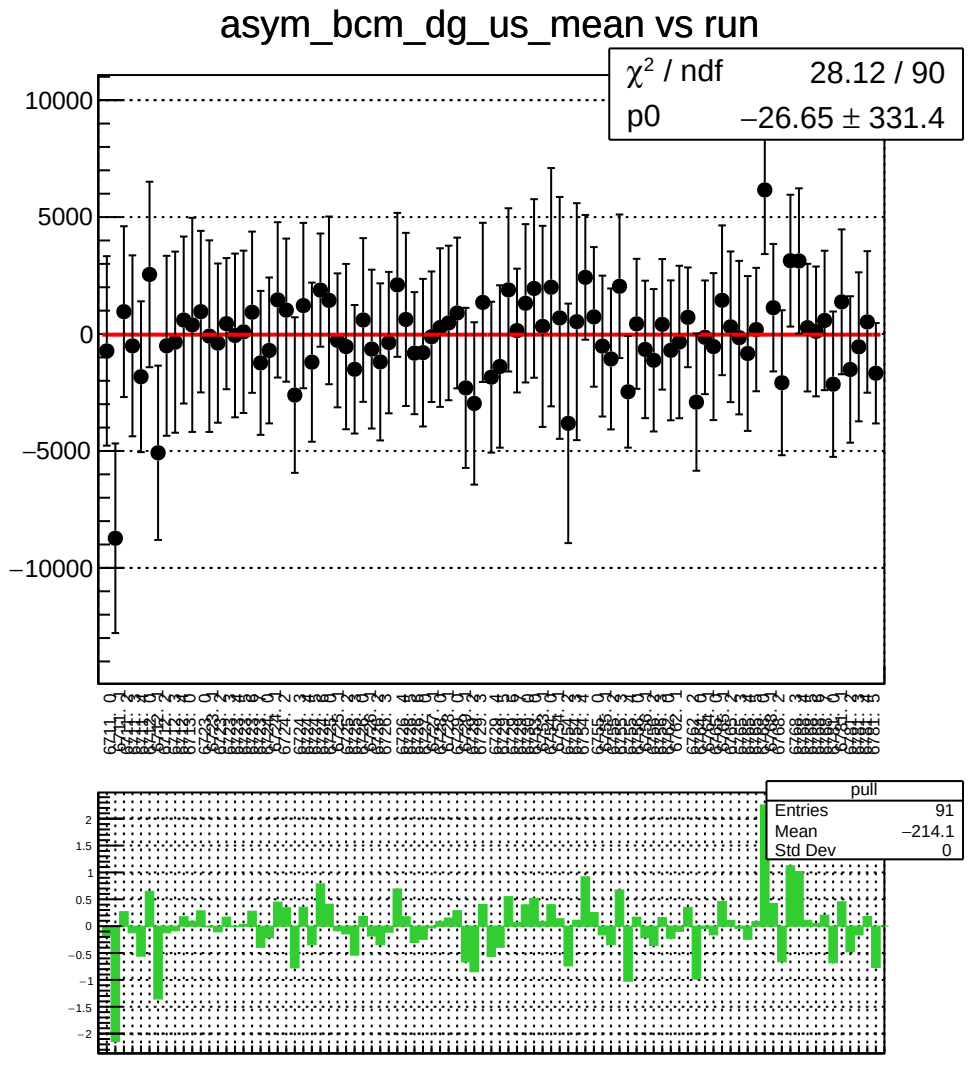

pull1D
Entries 91
Mean −0.009035
Std Dev 0.5421
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

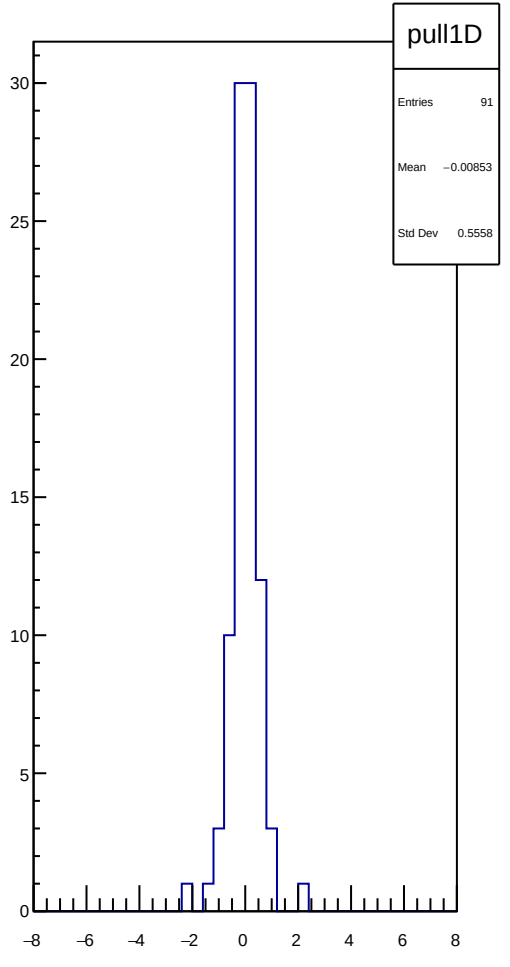

asym_bcm_an_ds3_rms vs run
χ² / ndf 3.445e+04 / 90
p0 306 ± 0.23
500
450
400
350
300
250

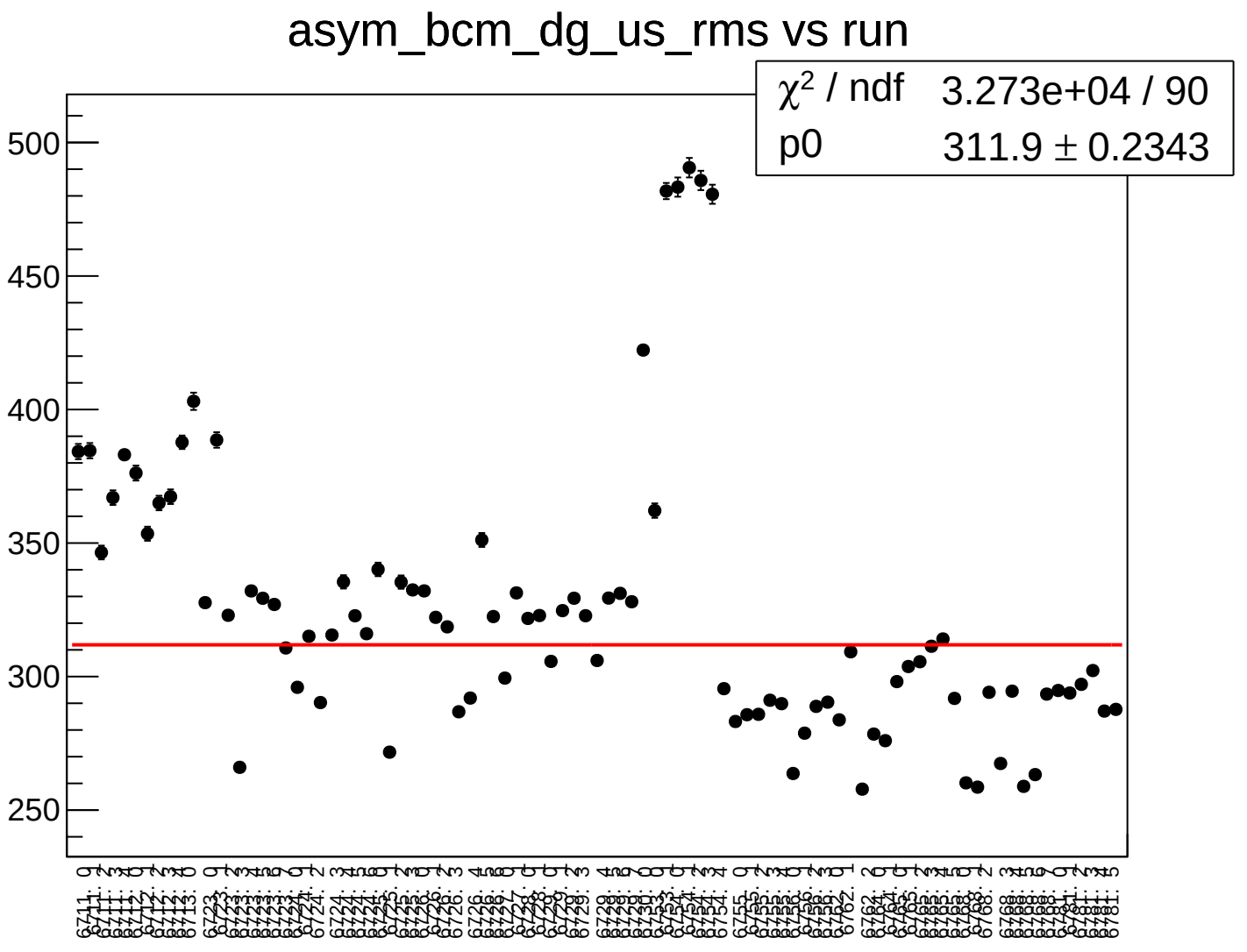

asym_bcm_an_us_mean vs run
χ² / ndf 26.48 / 90
p0 −13.26 ± 325.5
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −210
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

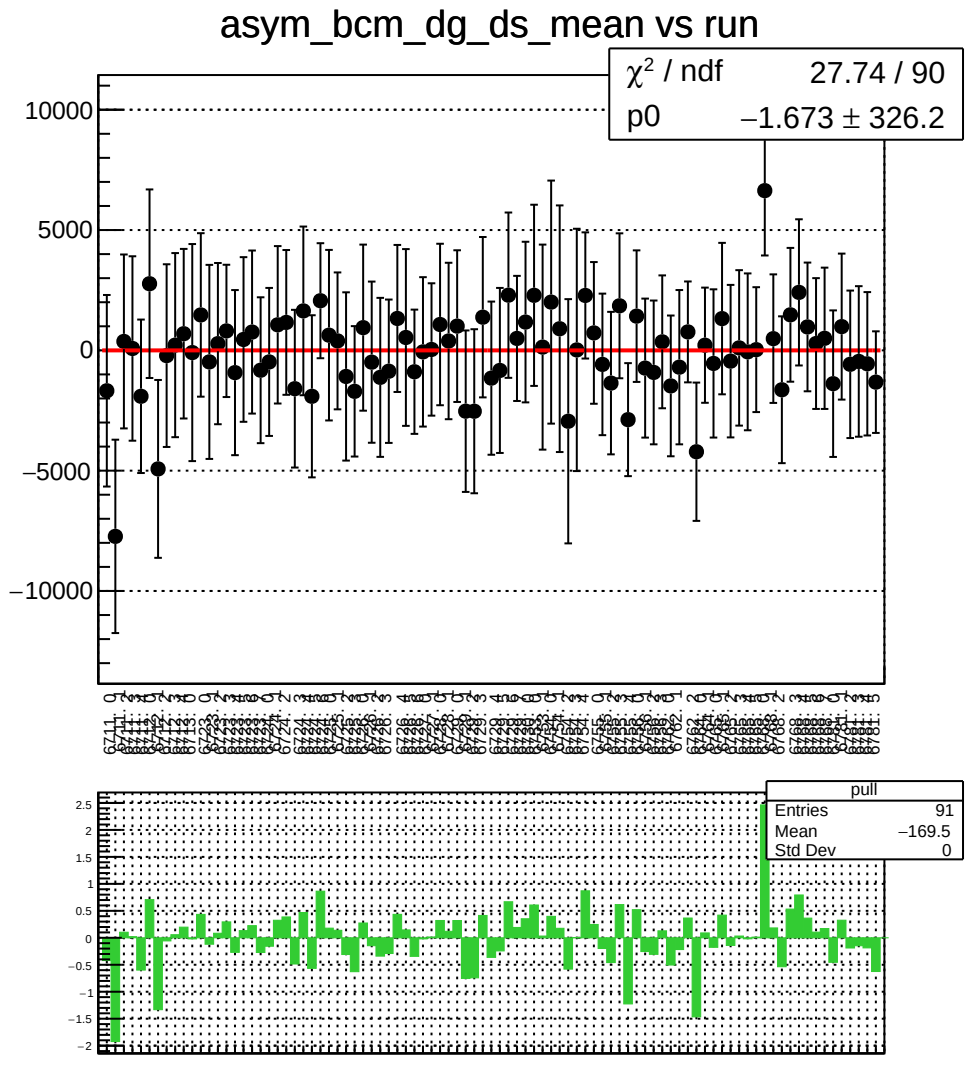

pull1D
Entries 91
Mean −0.009476
Std Dev 0.5394
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

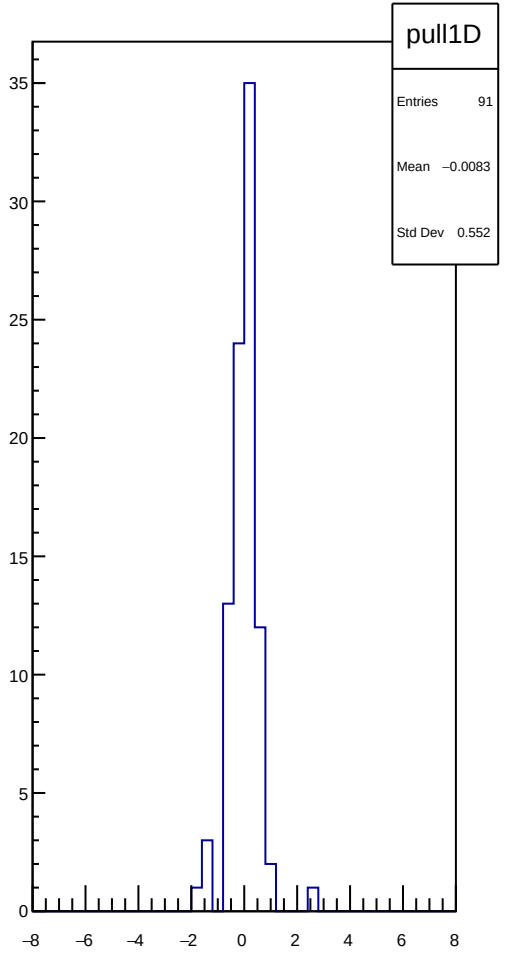

asym_bcm_an_us_rms vs run
χ² / ndf 3.43e+04 / 90
p0 306.2 ± 0.2302
500
450
400
350
300
250

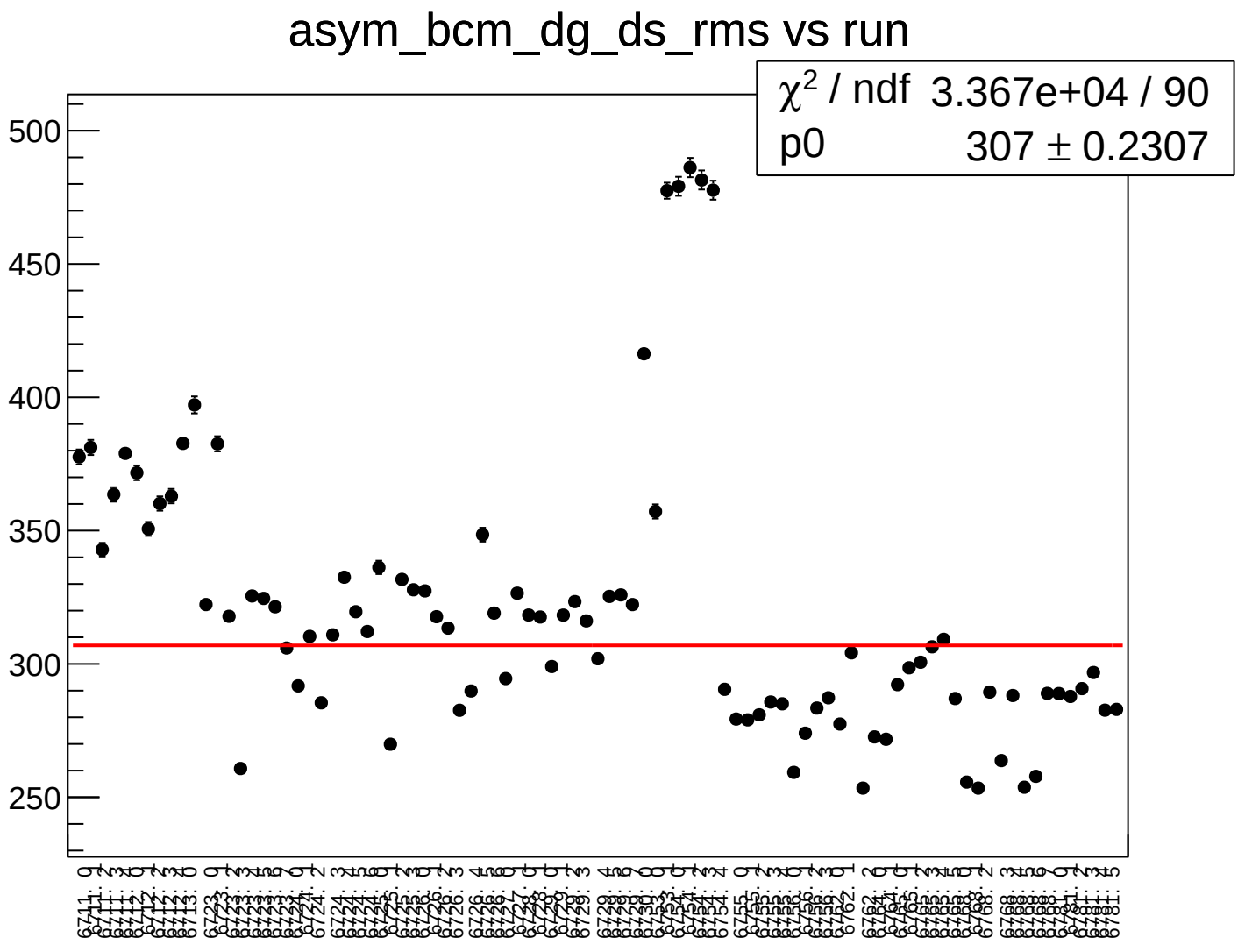

asym_bcm_dg_us_mean vs run
χ² / ndf 28.12 / 90
p0 −26.65 ± 331.4
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −214.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

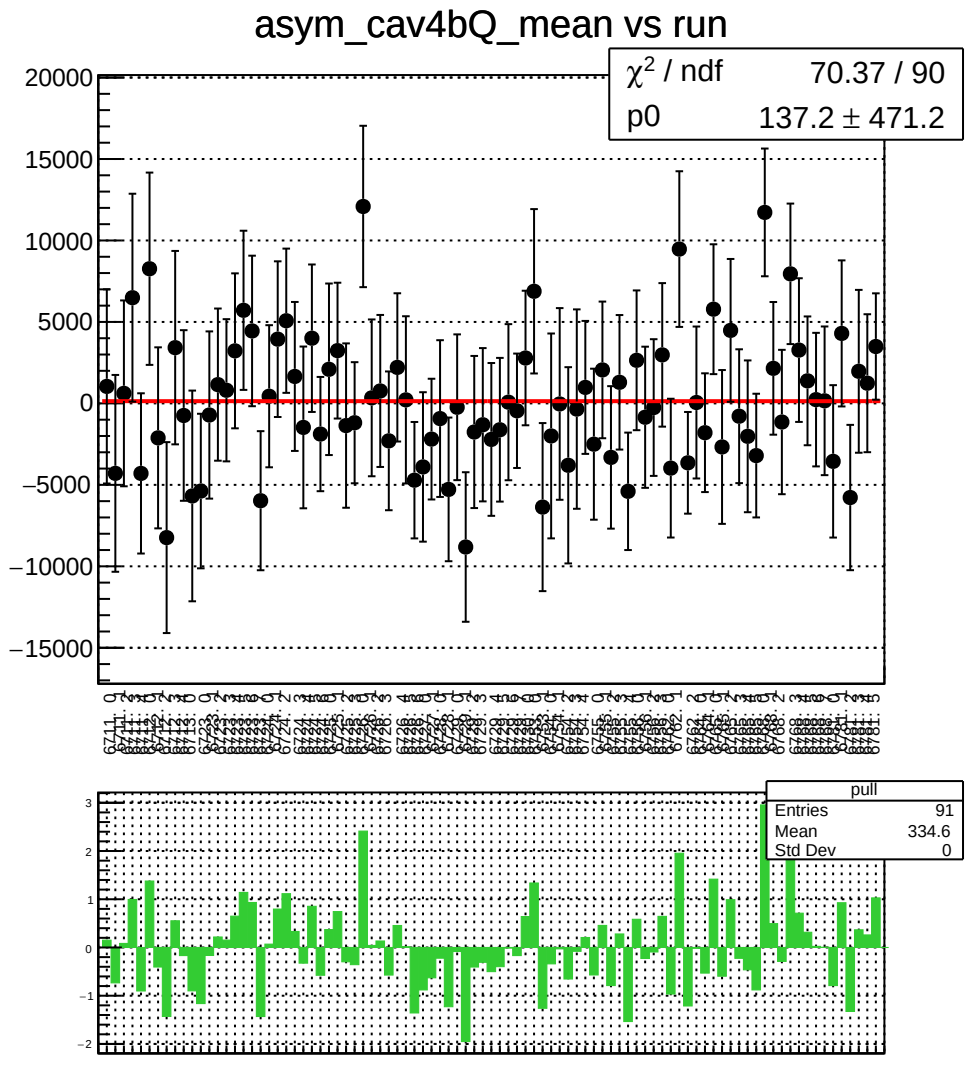

pull1D
Entries 91
Mean −0.00853
Std Dev 0.5558
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

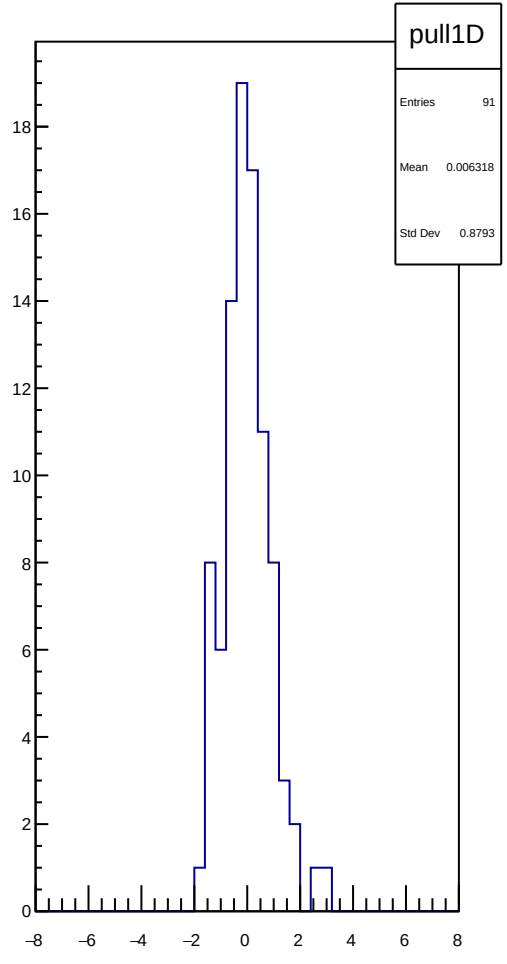

asym_bcm_dg_us_rms vs run
χ² / ndf 3.273e+04 / 90
p0 311.9 ± 0.2343
500
450
400
350
300
250

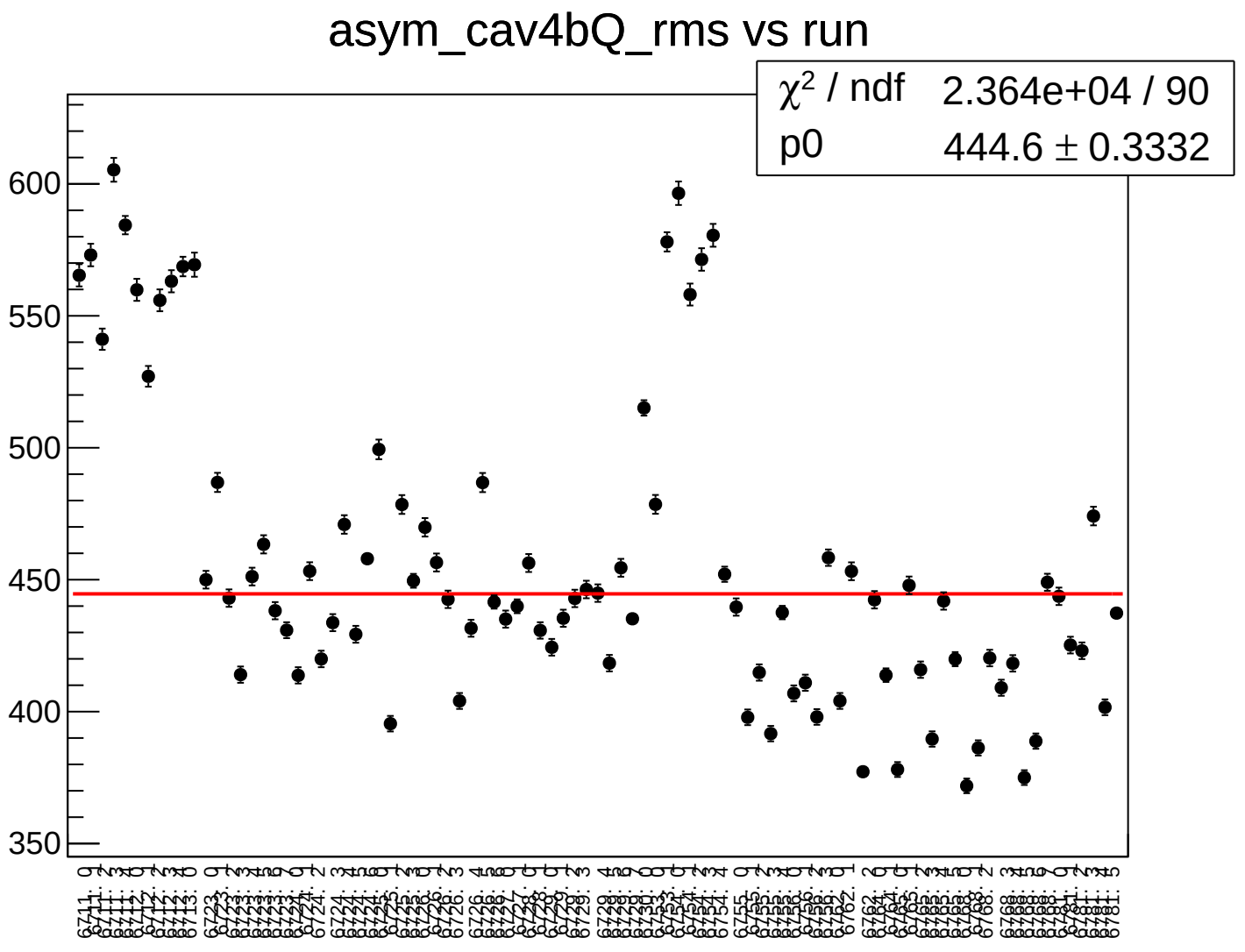

asym_bcm_dg_ds_mean vs run
χ² / ndf 27.74 / 90
p0 −1.673 ± 326.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −169.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

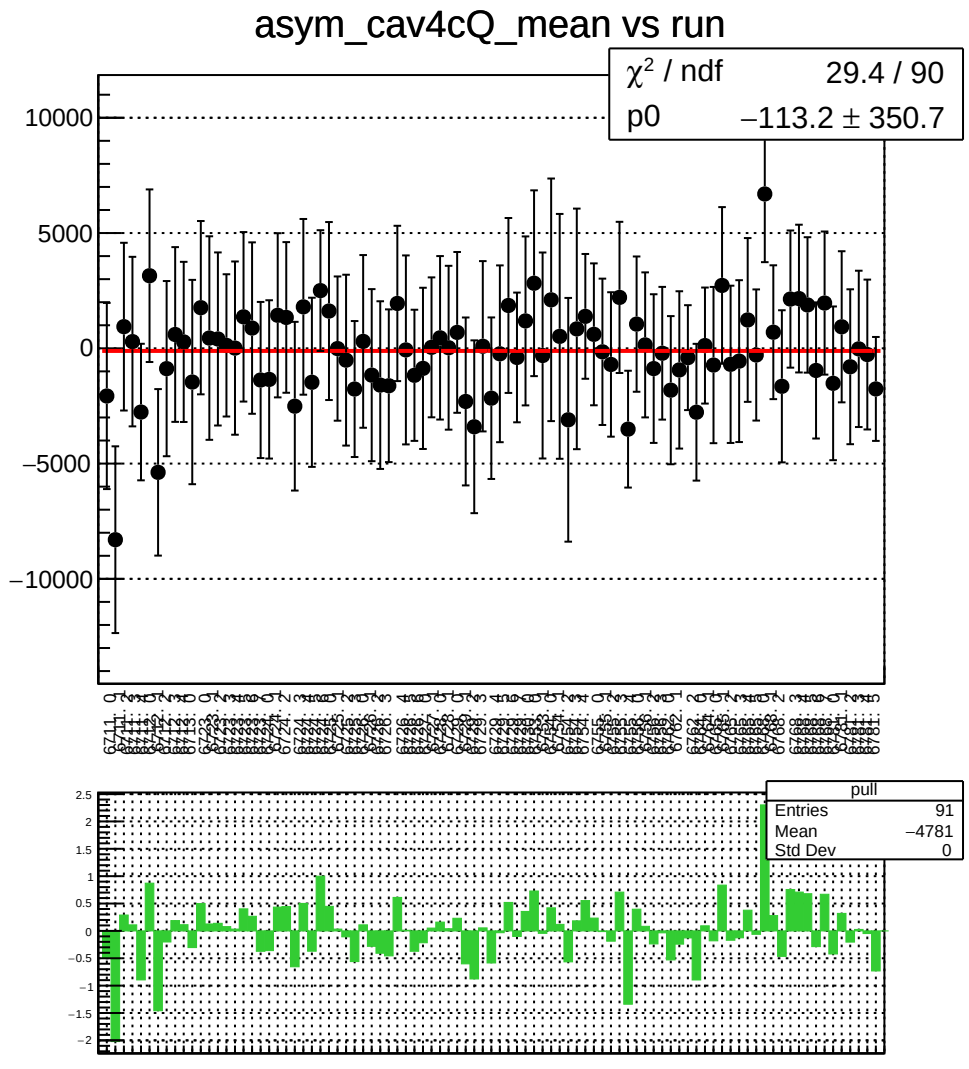

pull1D
Entries 91
Mean −0.0083
Std Dev 0.552
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

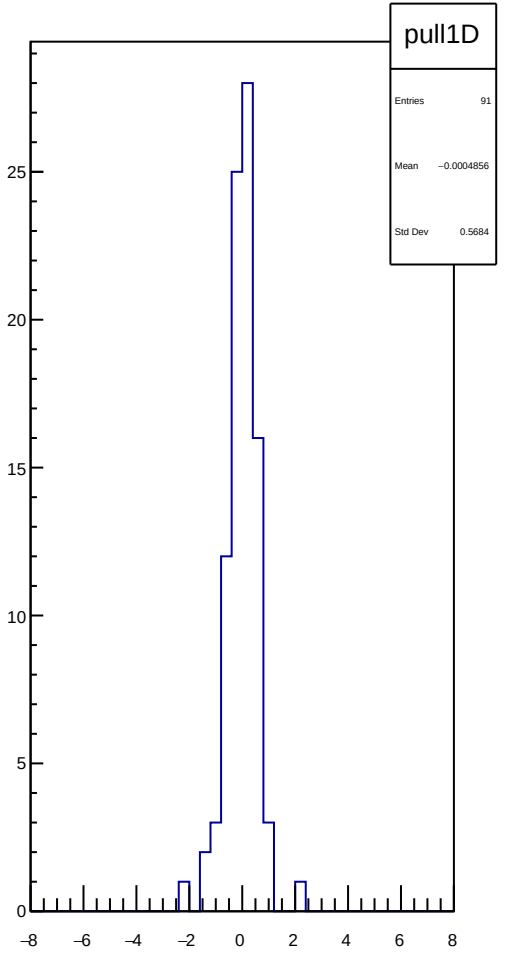

asym_bcm_dg_ds_rms vs run
χ² / ndf 3.367e+04 / 90
p0 307 ± 0.2307
500
450
400
350
300
250

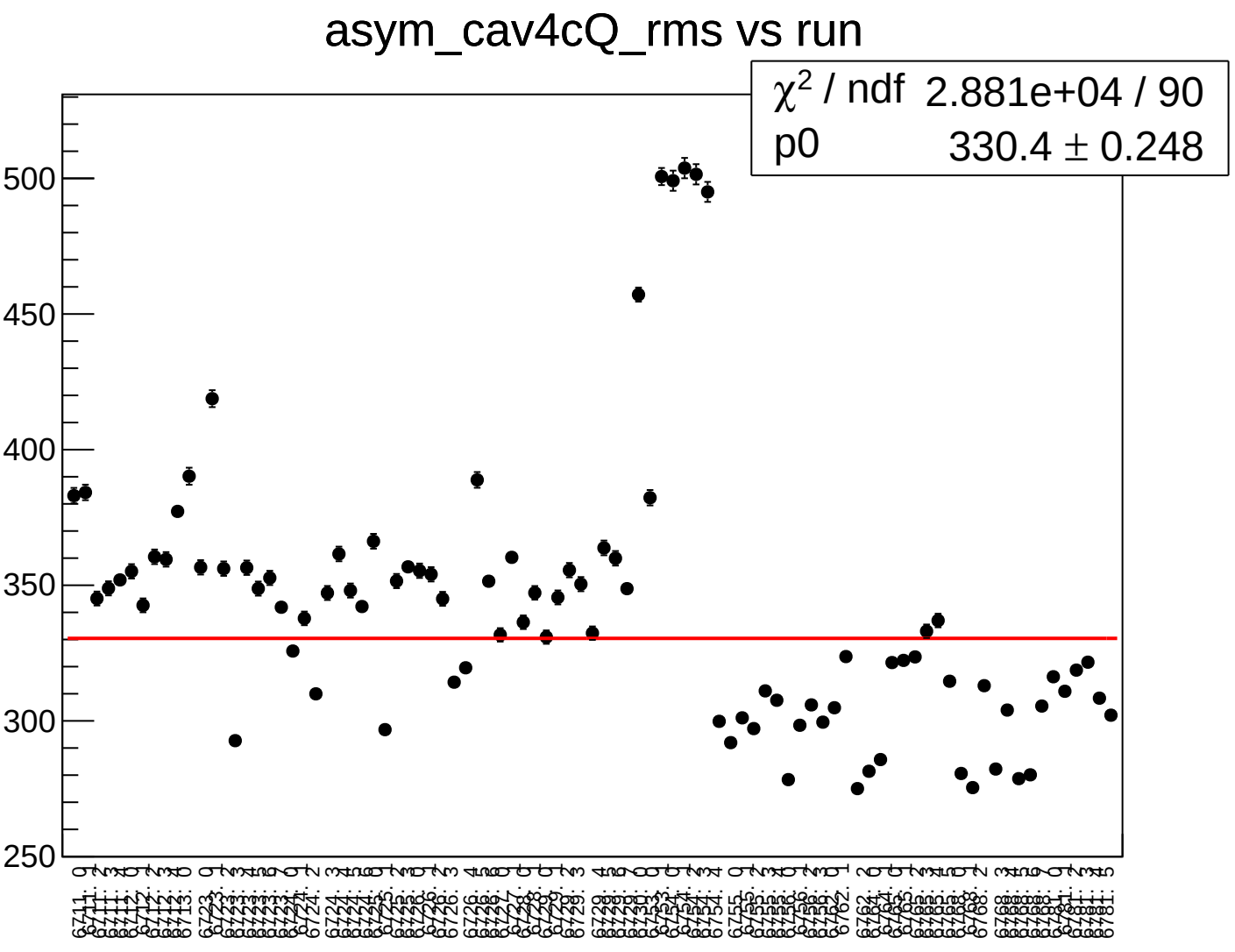

asym_cav4bQ_mean vs run
χ² / ndf 70.37 / 90
p0 137.2 ± 471.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 334.6
Std Dev 0
3
2
1
0
−1
−2

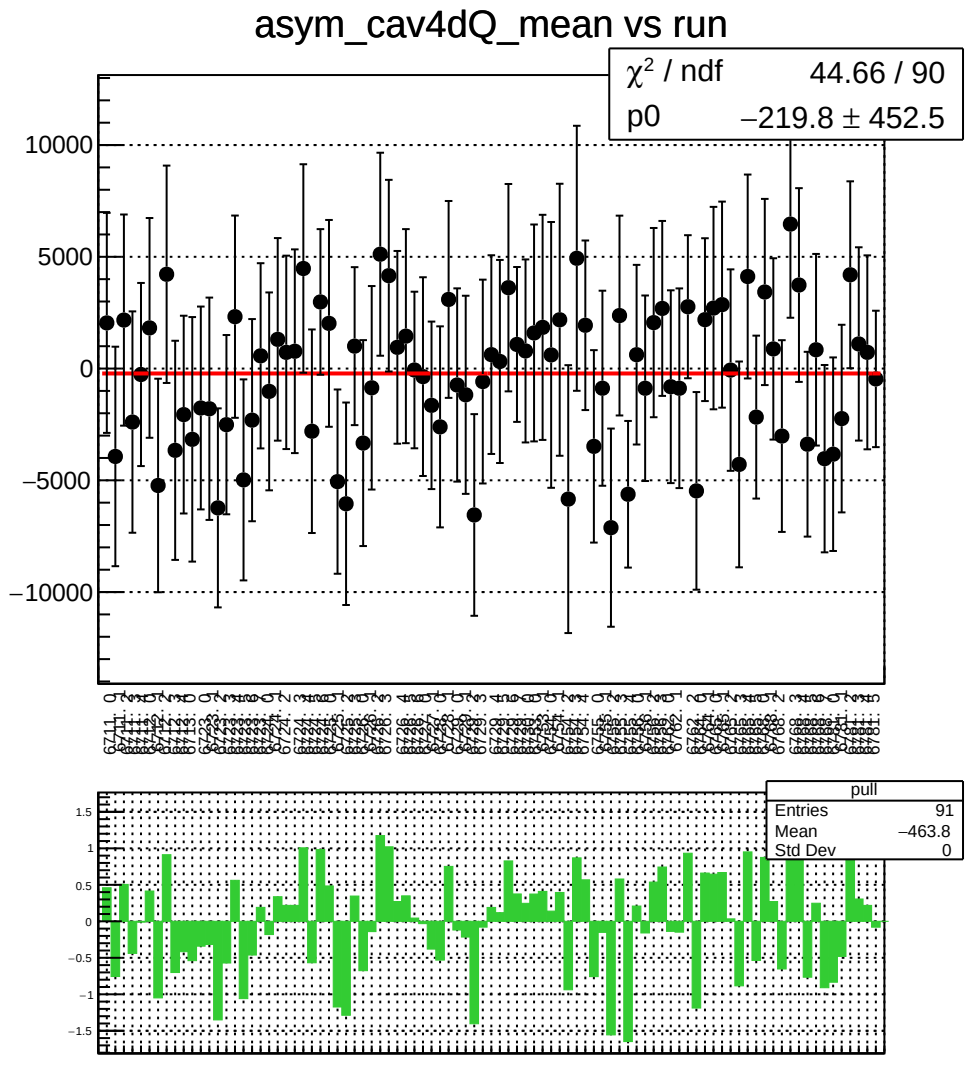

pull1D
Entries 91
Mean 0.006318
Std Dev 0.8793
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

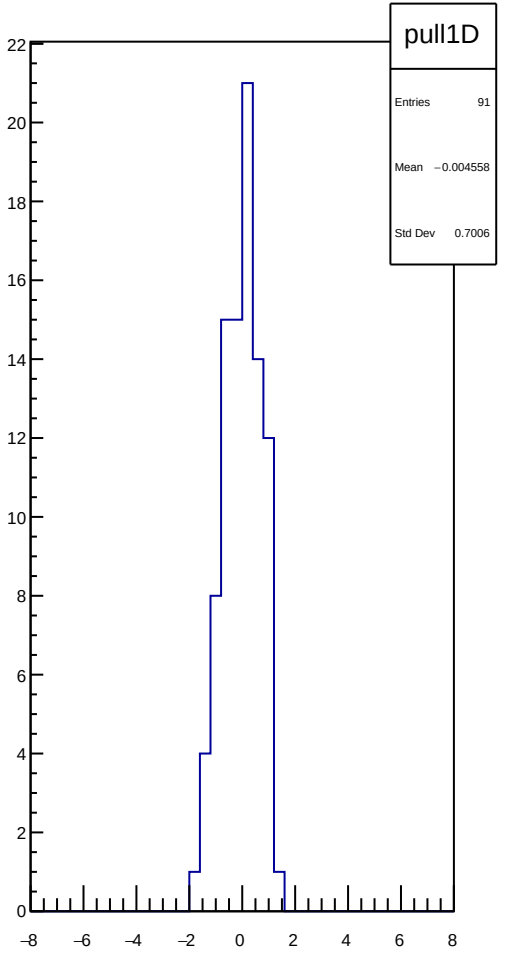

asym_cav4bQ_rms vs run
χ² / ndf 2.364e+04 / 90
p0 444.6 ± 0.3332
600
550
500
450
400
350

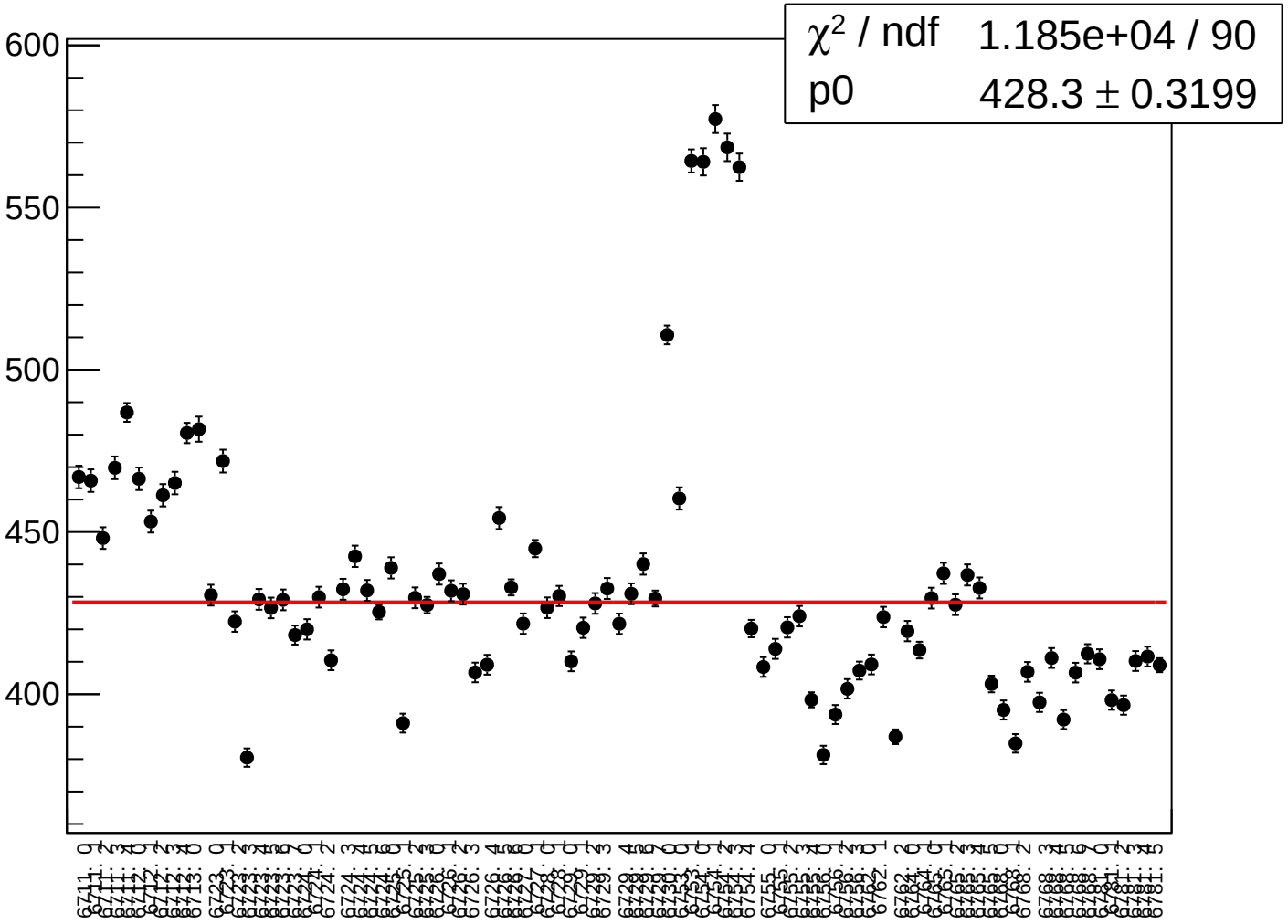

asym_cav4cQ_mean vs run
χ² / ndf 29.4 / 90
p0 −113.2 ± 350.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −4781
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

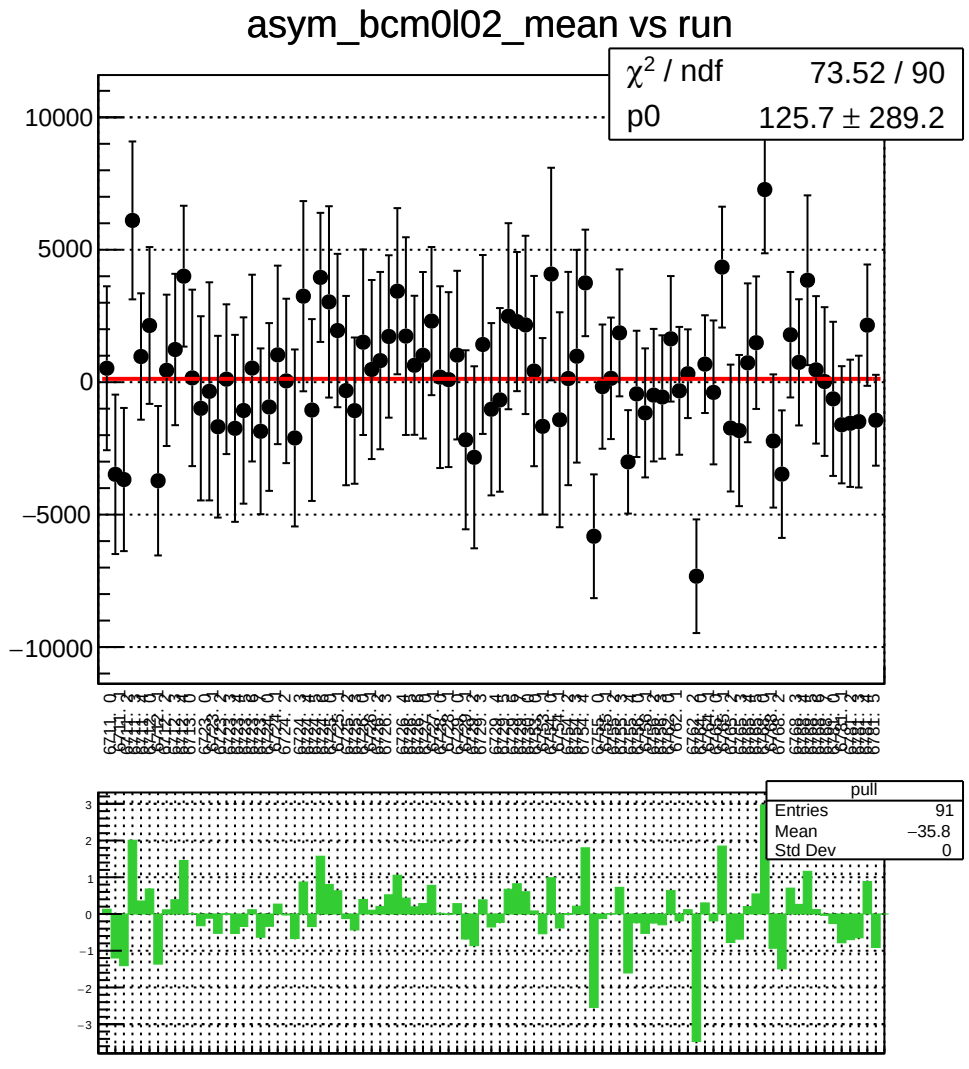

pull1D
Entries 91
Mean −0.0004856
Std Dev 0.5684
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

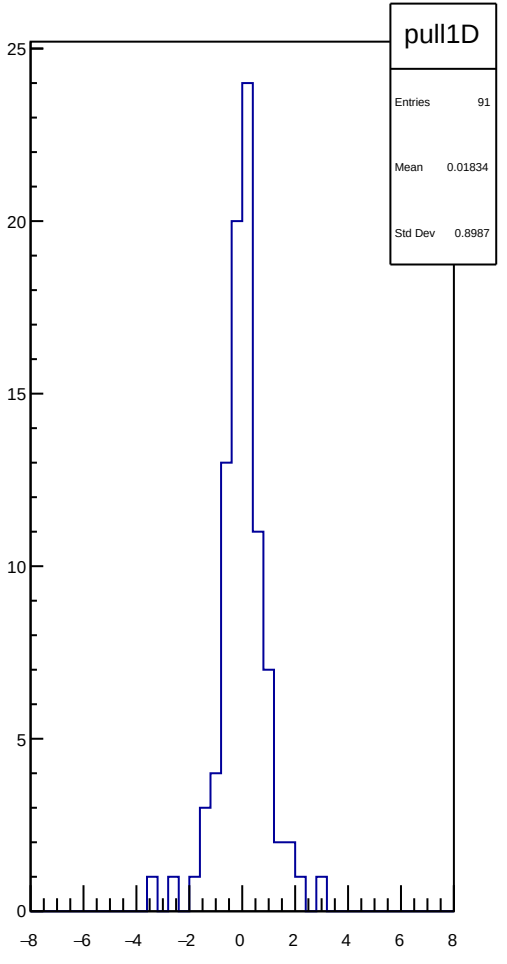

asym_cav4cQ_rms vs run
χ^2 / ndf 2.881e+04 / 90
p0 330.4 ± 0.248
500
450
400
350
300
250

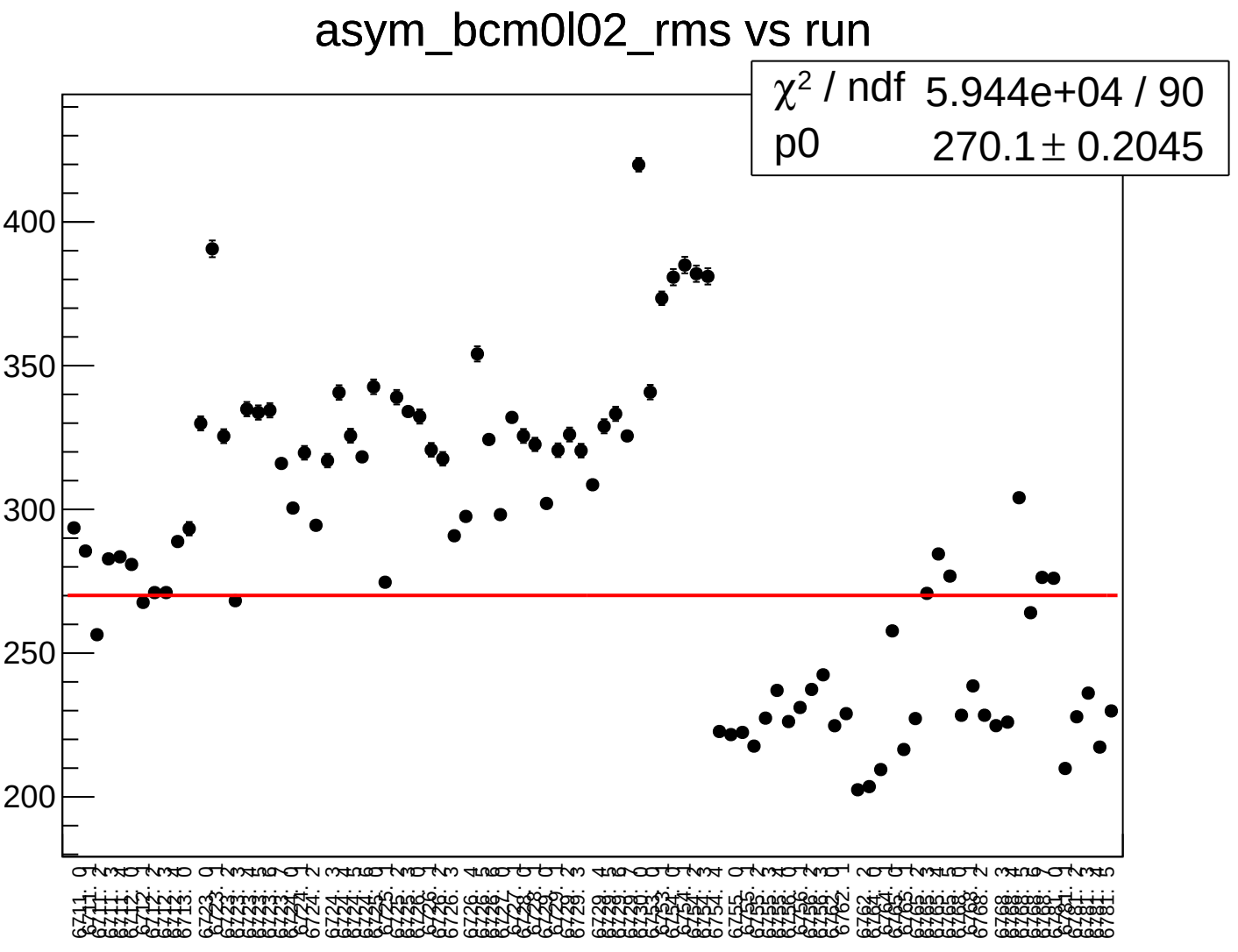

asym_cav4dQ_mean vs run
χ² / ndf 44.66 / 90
p0 −219.8 ± 452.5
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −463.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

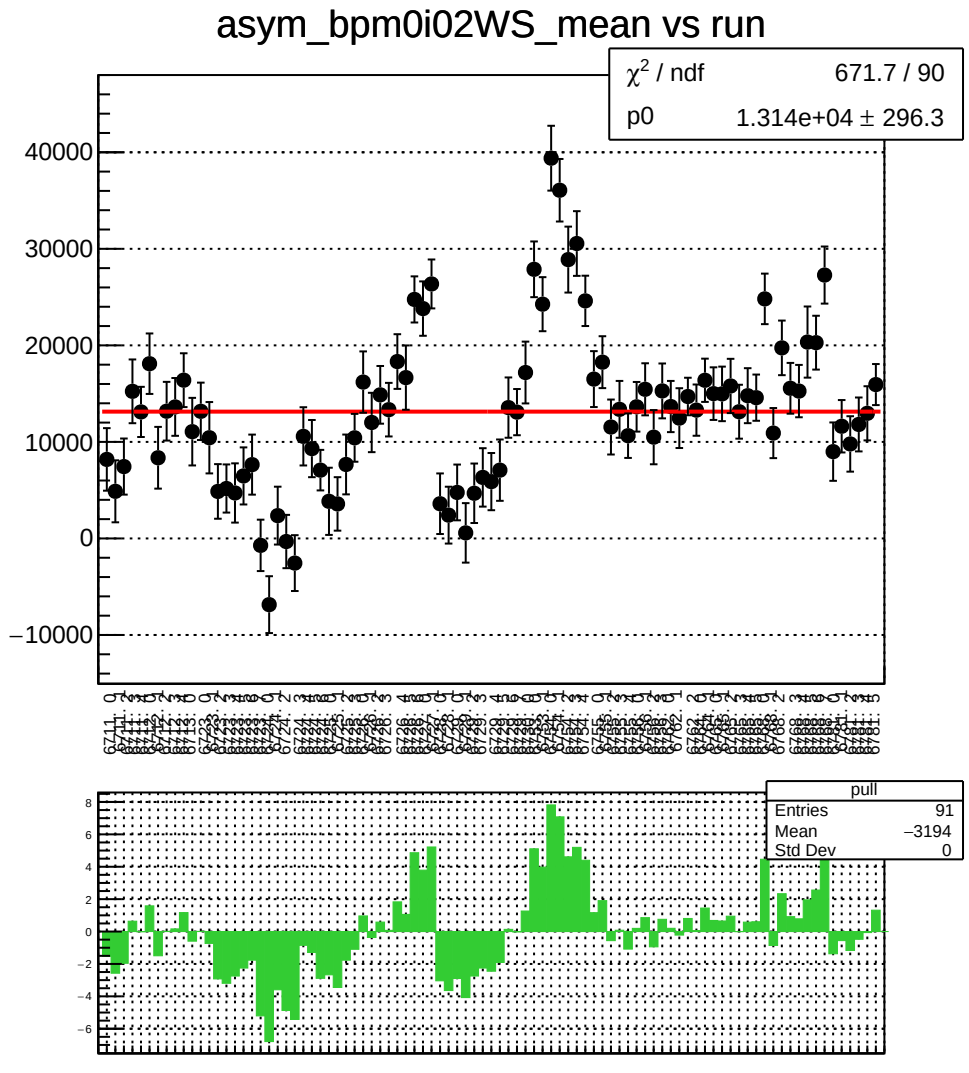

pull1D
Entries 91
Mean −0.004558
Std Dev 0.7006
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

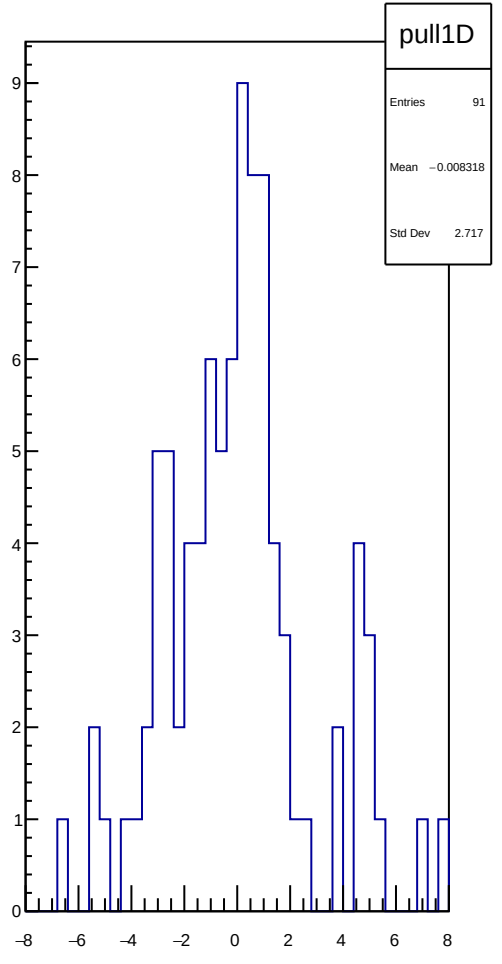

asym_cav4dQ_rms vs run
χ^2 / ndf 1.185e+04 / 90
p0 428.3 ± 0.3199
600
550
500
450
400

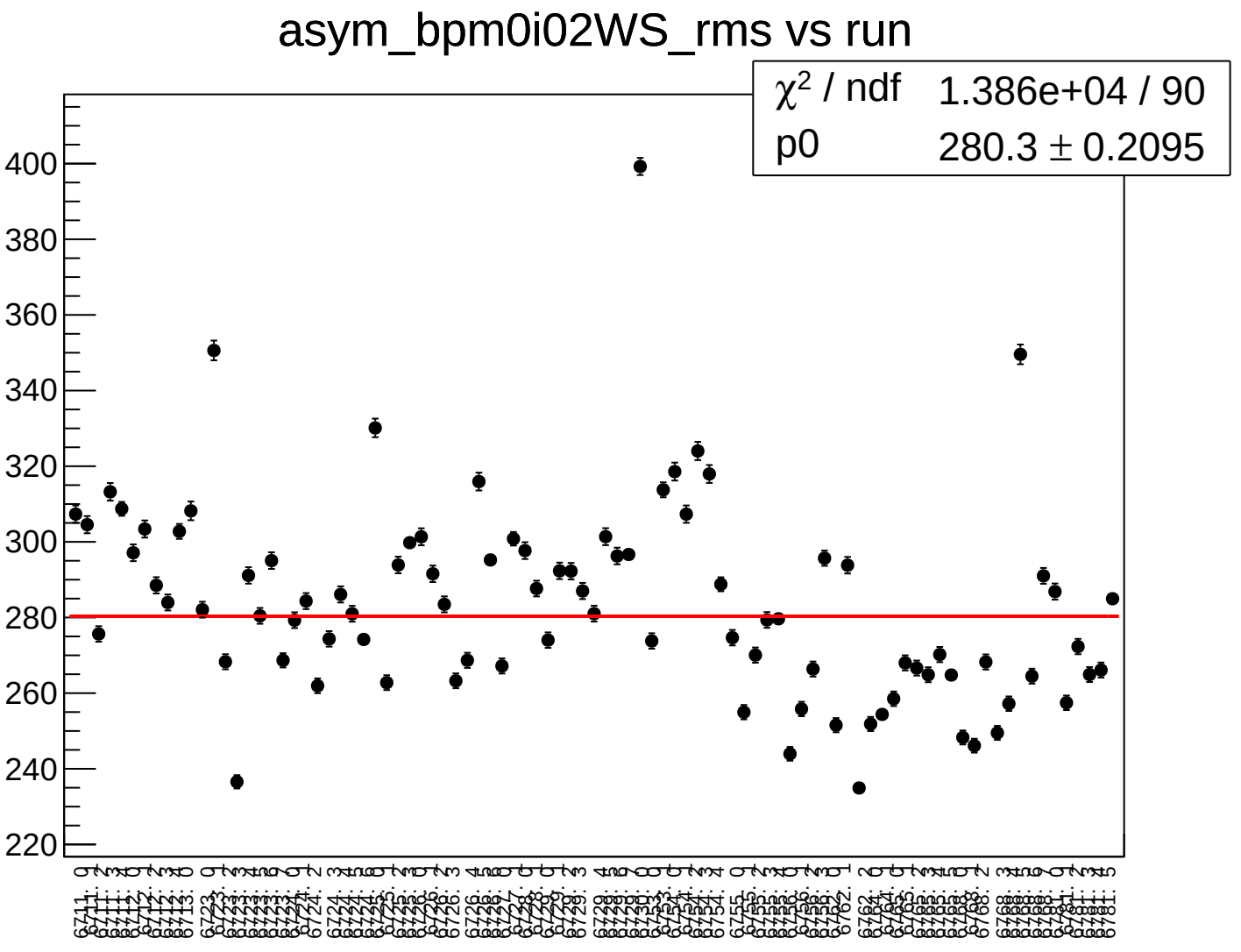

asym_bcm0l02_mean vs run
χ² / ndf 73.52 / 90
p0 125.7 ± 289.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −35.8
Std Dev 0
3
2
1
0
−1
−2
−3

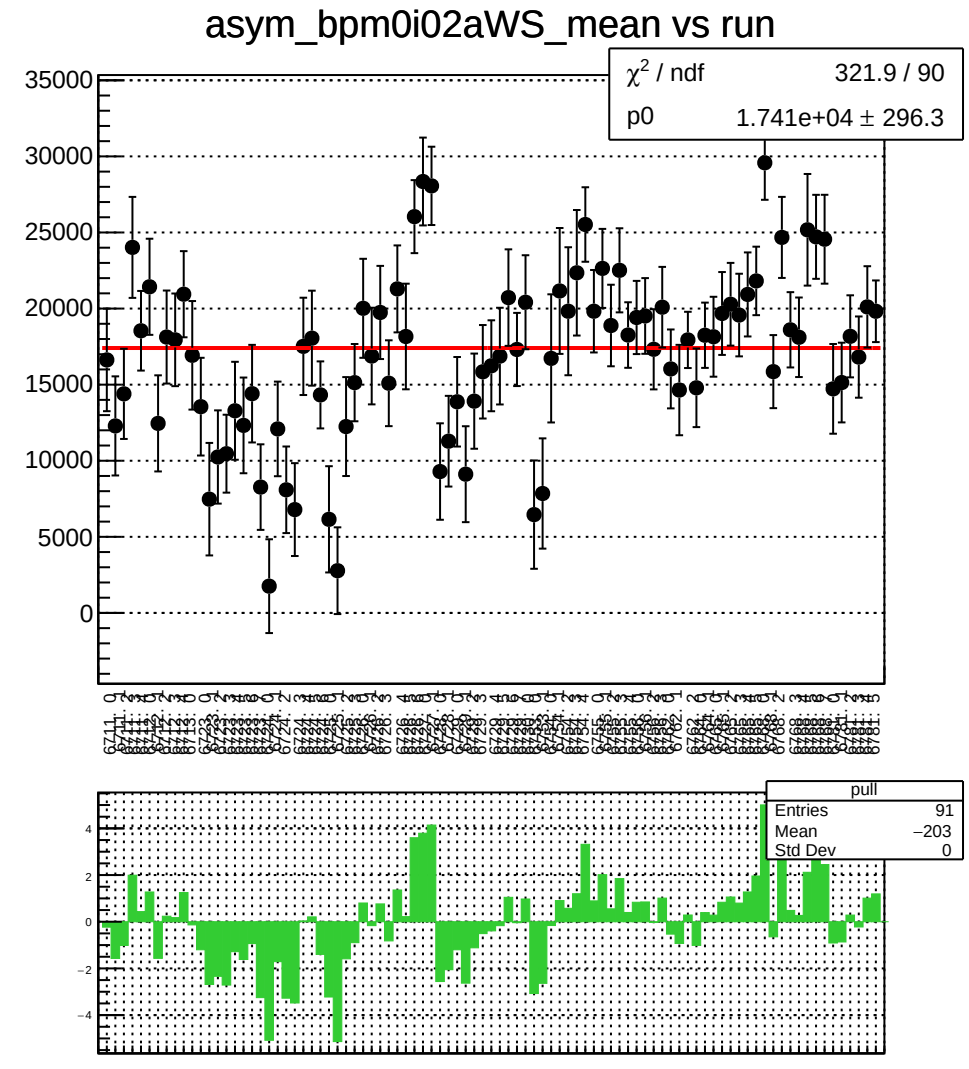

pull1D
Entries 91
Mean 0.01834
Std Dev 0.8987
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

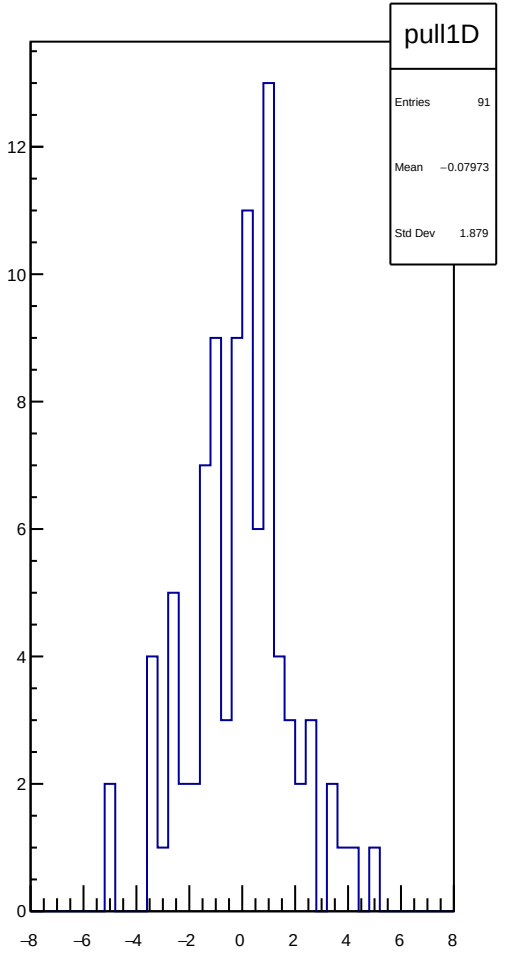

asym_bcm0l02_rms vs run
χ² / ndf 5.944e+04 / 90
p0 270.1 ± 0.2045
400
350
300
250
200

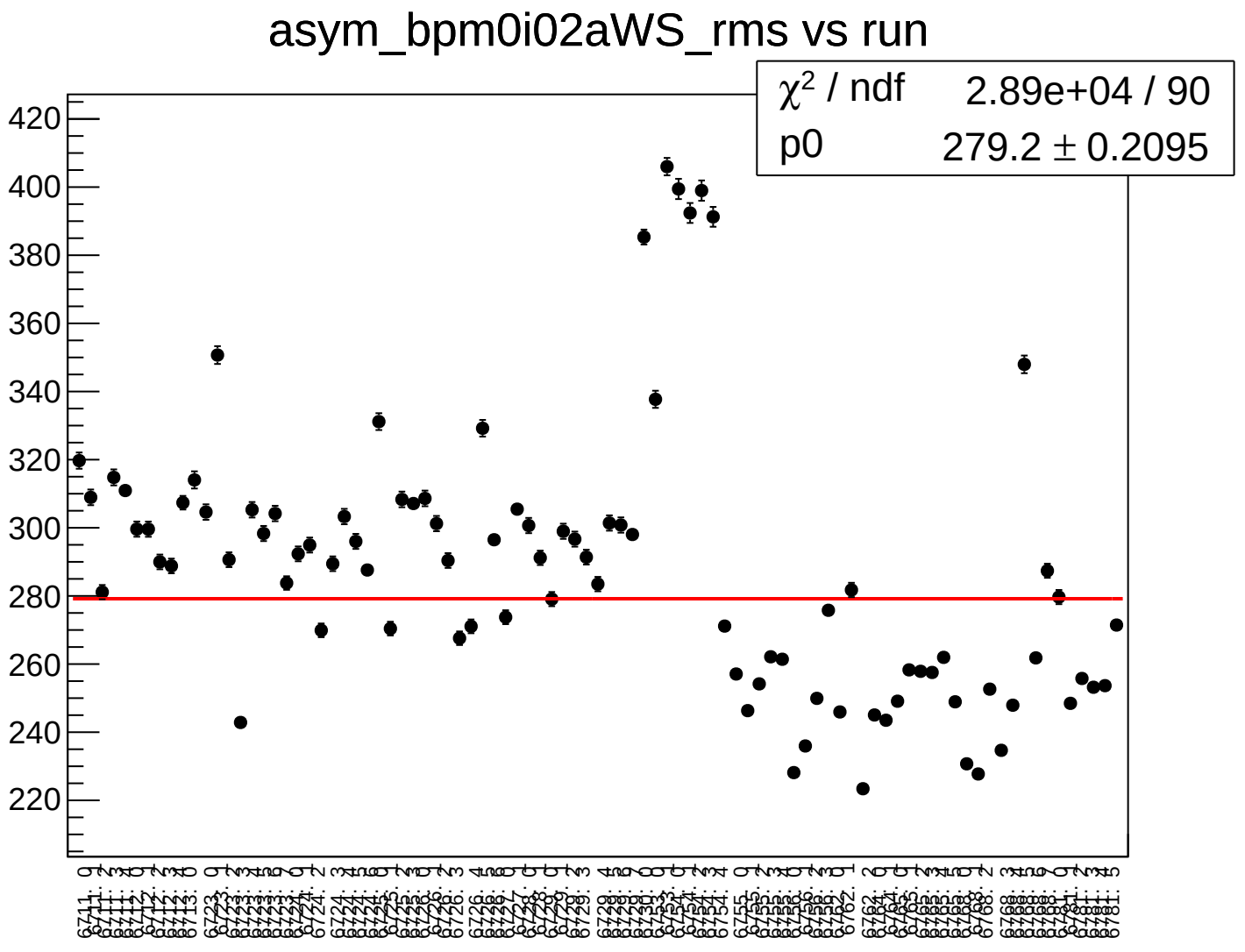

asym_bpm0i02WS_mean vs run
χ² / ndf 671.7 / 90
p0 1.314e+04 ± 296.3
40000
30000
20000
10000
0
−10000
pull
Entries 91
Mean −3194
Std Dev 0
8
6
4
2
0
−2
−4
−6

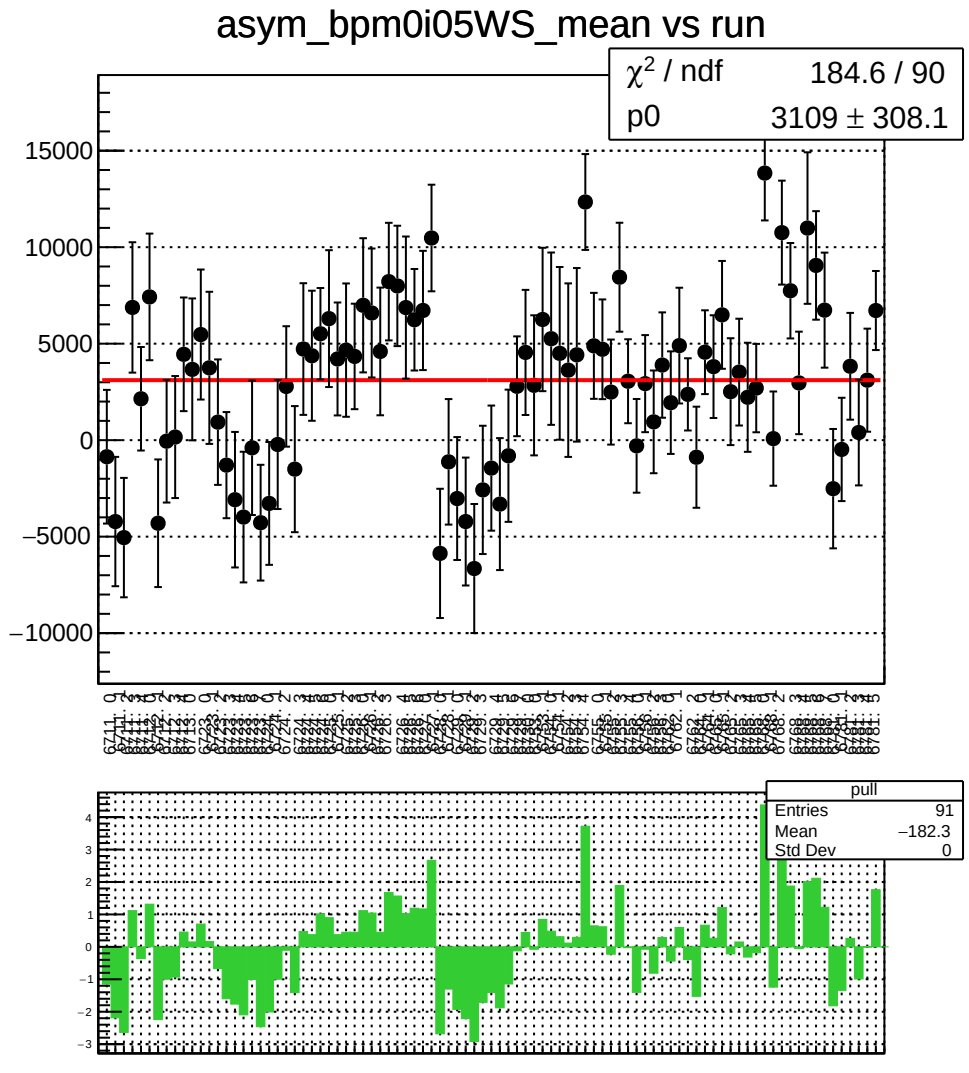

pull1D
Entries 91
Mean −0.008318
Std Dev 2.717
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

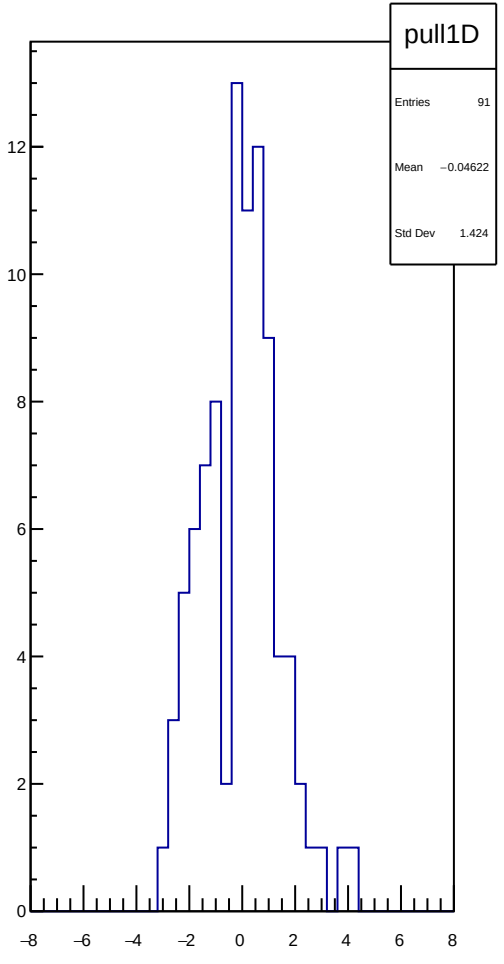

asym_bpm0i02WS_rms vs run
χ^2 / ndf 1.386e+04 / 90
p0 280.3 ± 0.2095
400
380
360
340
320
300
280
260
240
220

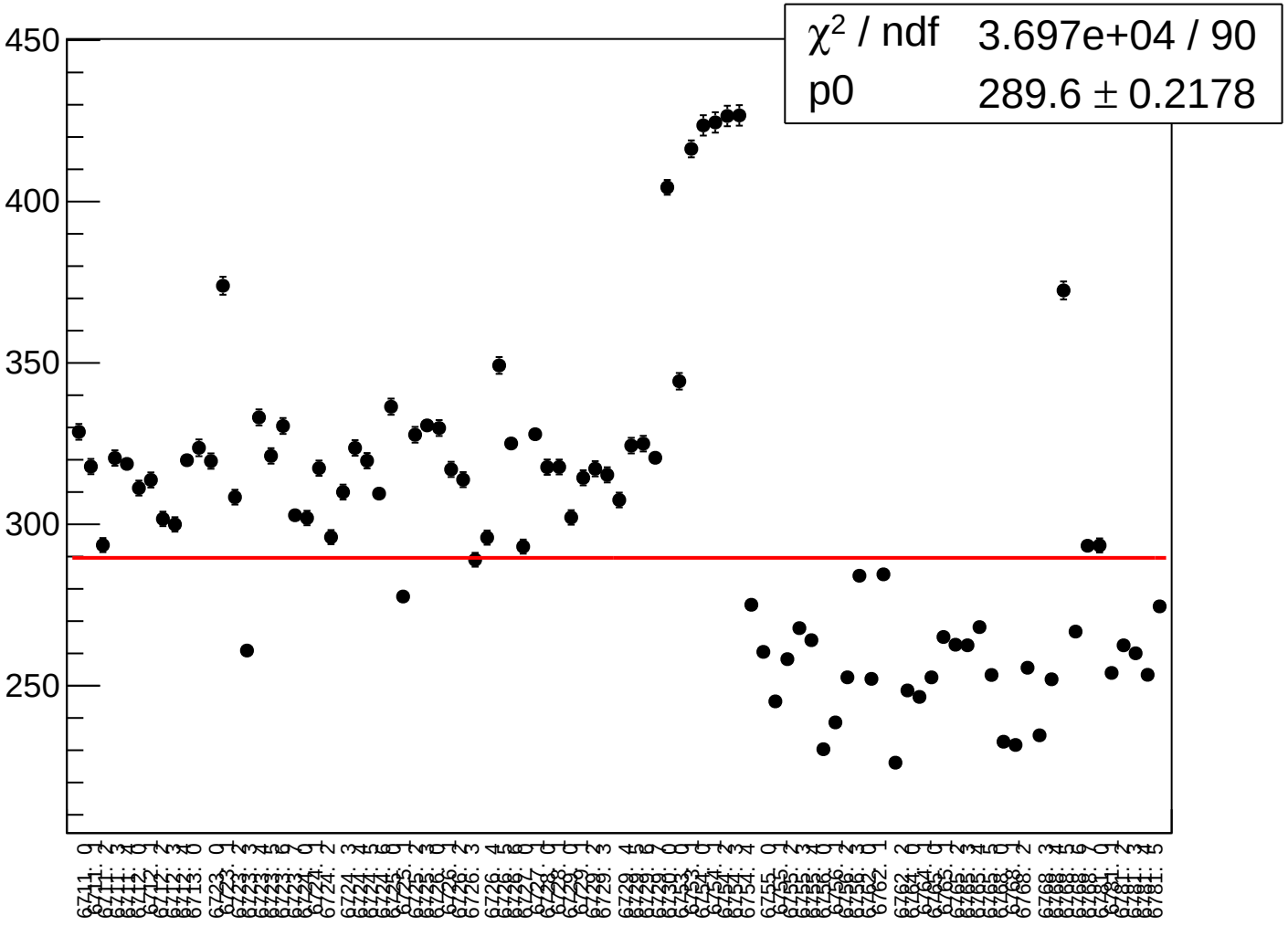

asym_bpm0i02aWS_mean vs run
χ² / ndf 321.9 / 90
p0 1.741e+04 ± 296.3
pull
Entries 91
Mean −203
Std Dev 0

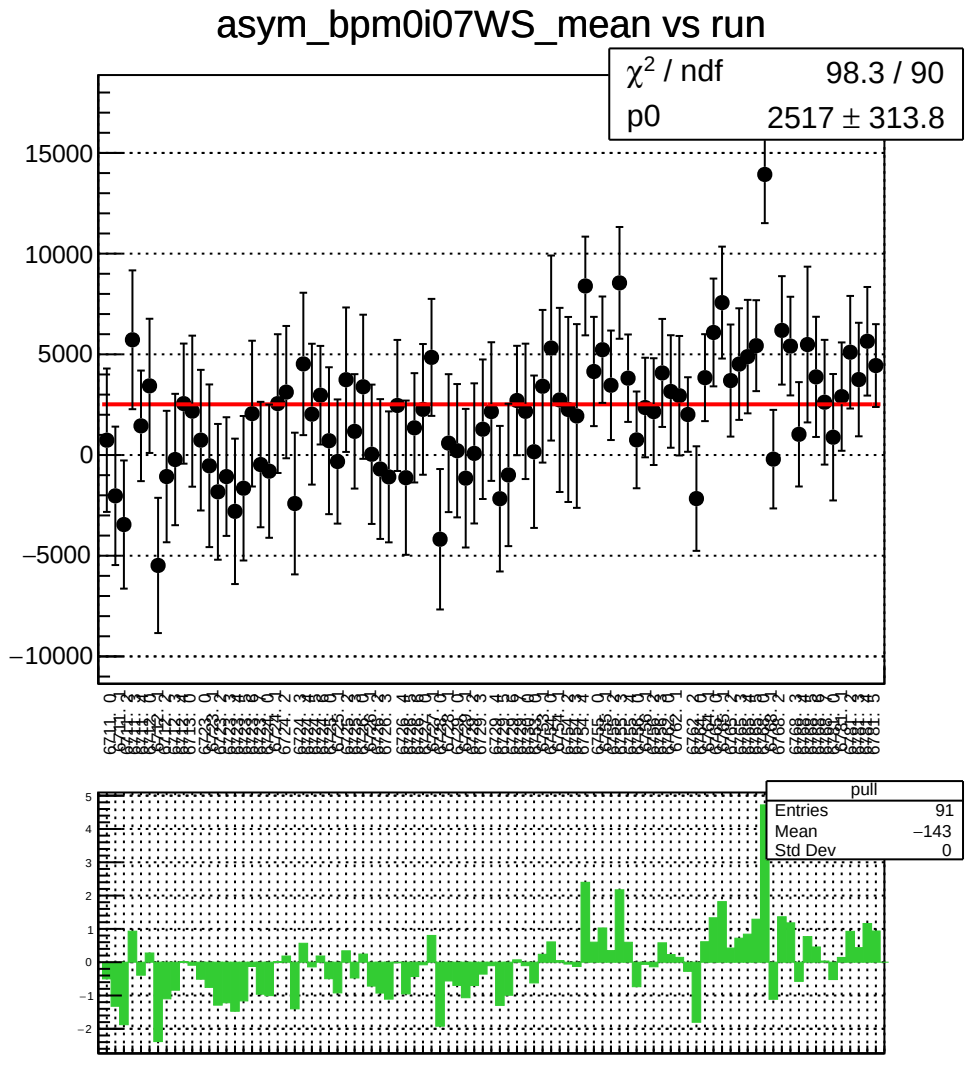

pull1D
Entries 91
Mean −0.07973
Std Dev 1.879

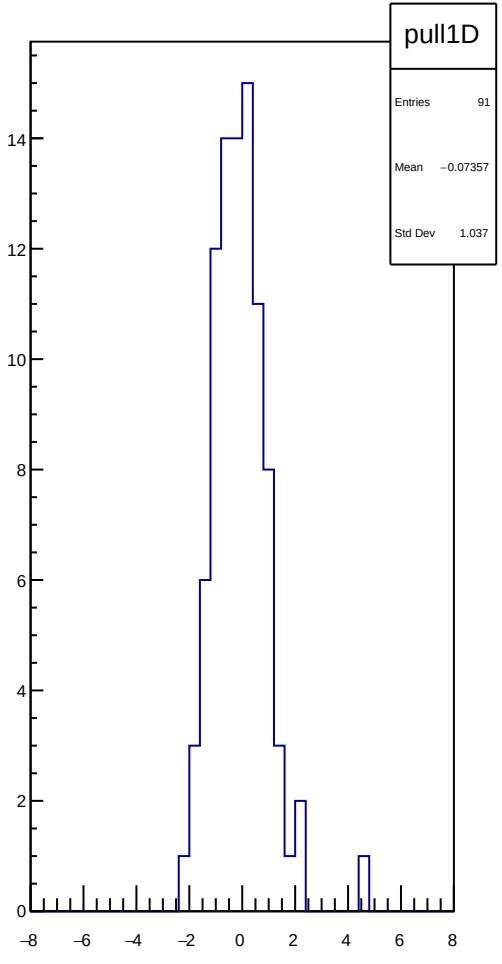

asym_bpm0i02aWS_rms vs run
χ^2 / ndf 2.89e+04 / 90
p0 279.2 ± 0.2095
420
400
380
360
340
320
300
280
260
240
220

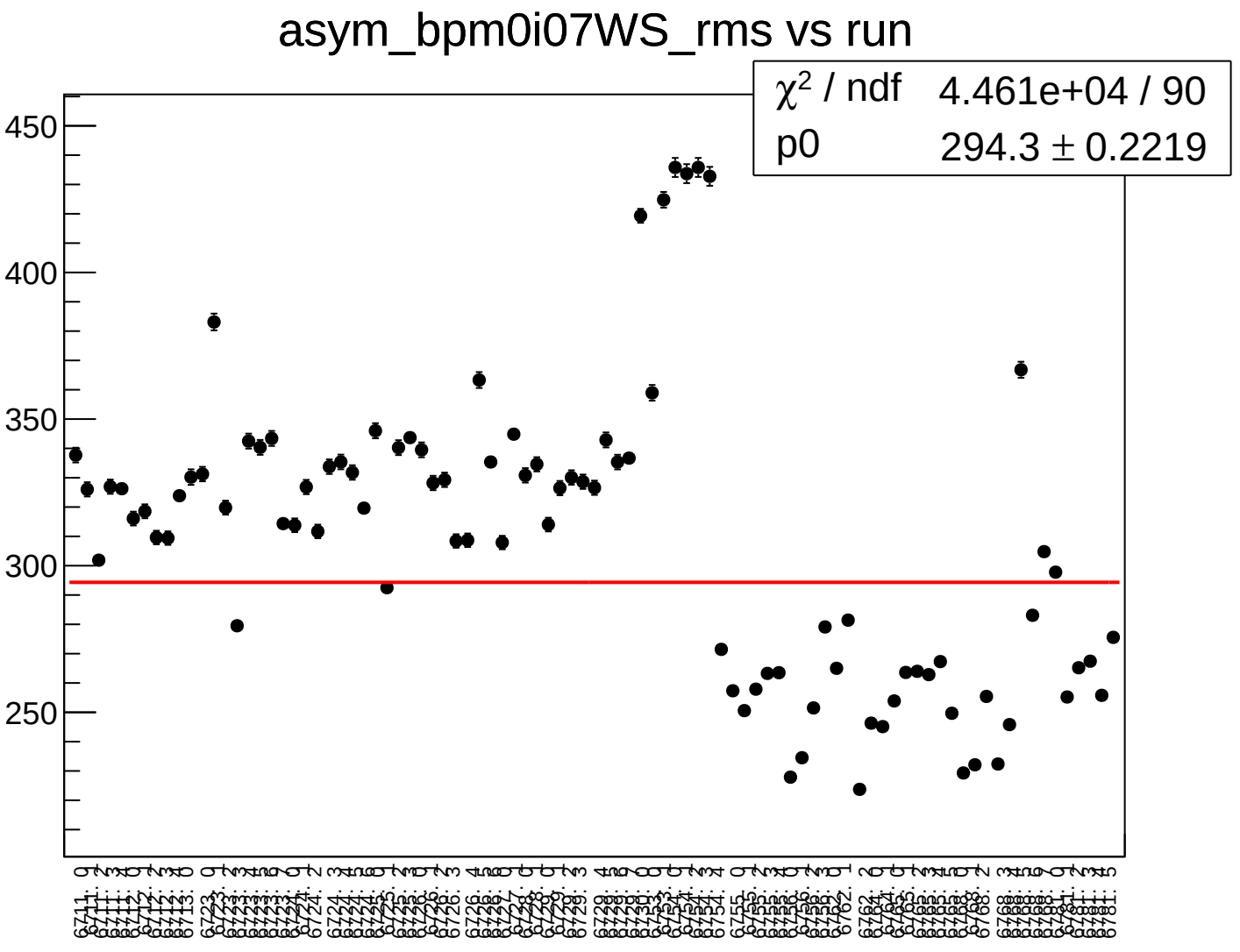

asym_bpm0i05WS_mean vs run
χ² / ndf 184.6 / 90
p0 3109 ± 308.1
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −182.3
Std Dev 0
4
3
2
1
0
−1
−2
−3

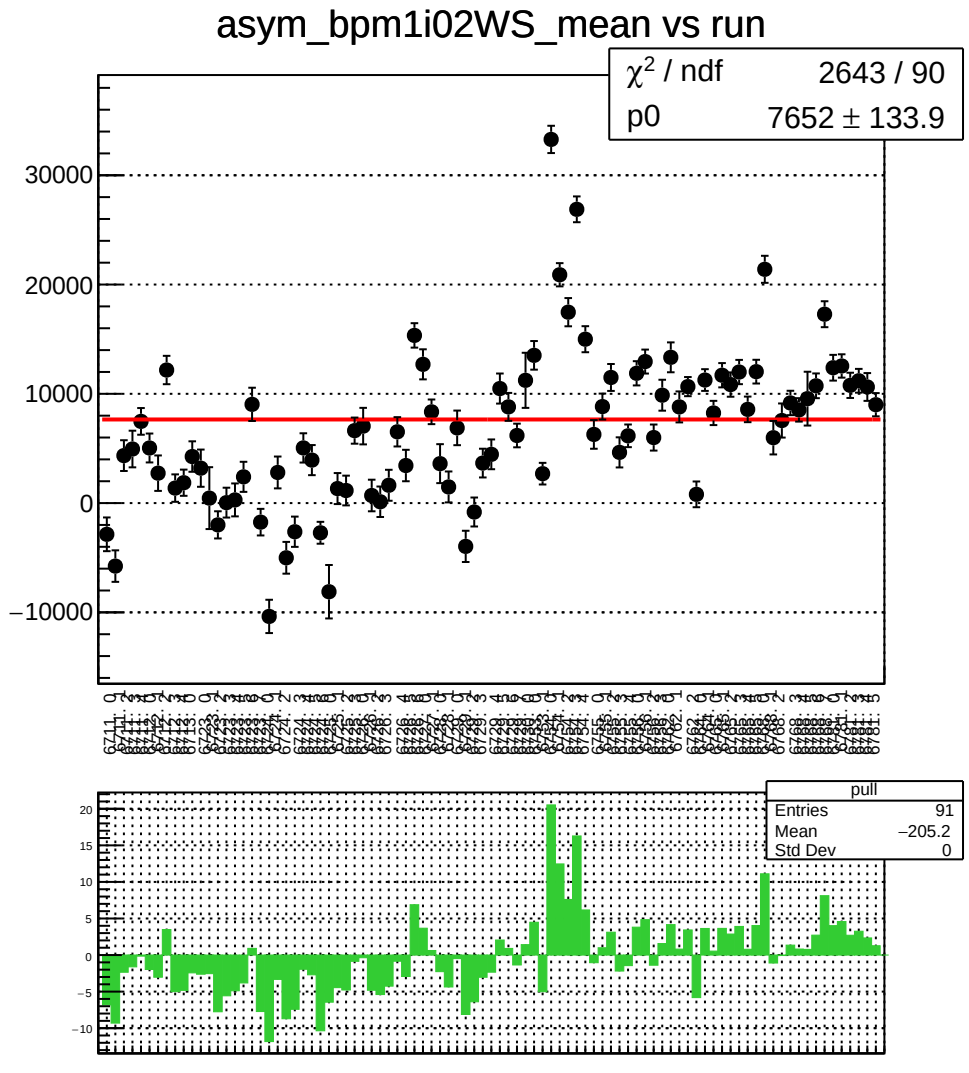

pull1D
Entries 91
Mean −0.04622
Std Dev 1.424
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

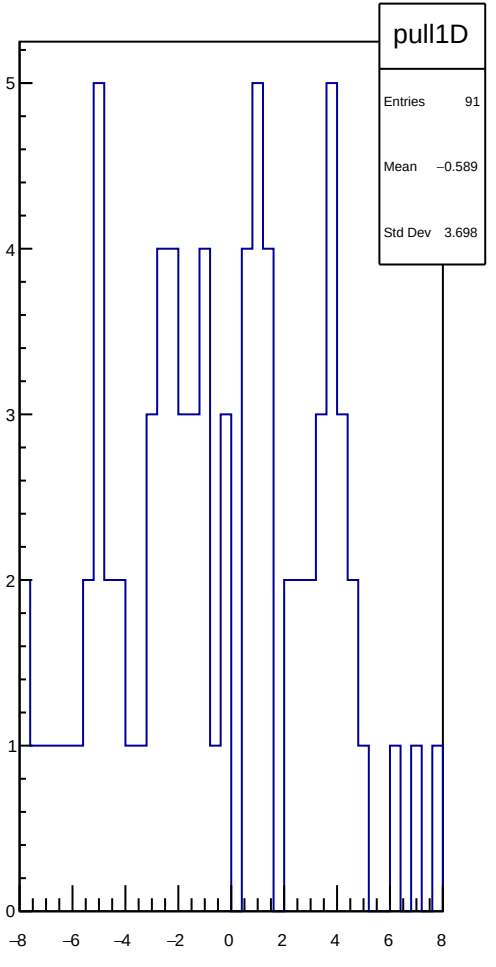

asym_bpm0i05WS_rms vs run
χ^2 / ndf 3.697e+04 / 90
p0 289.6 ± 0.2178
450
400
350
300
250

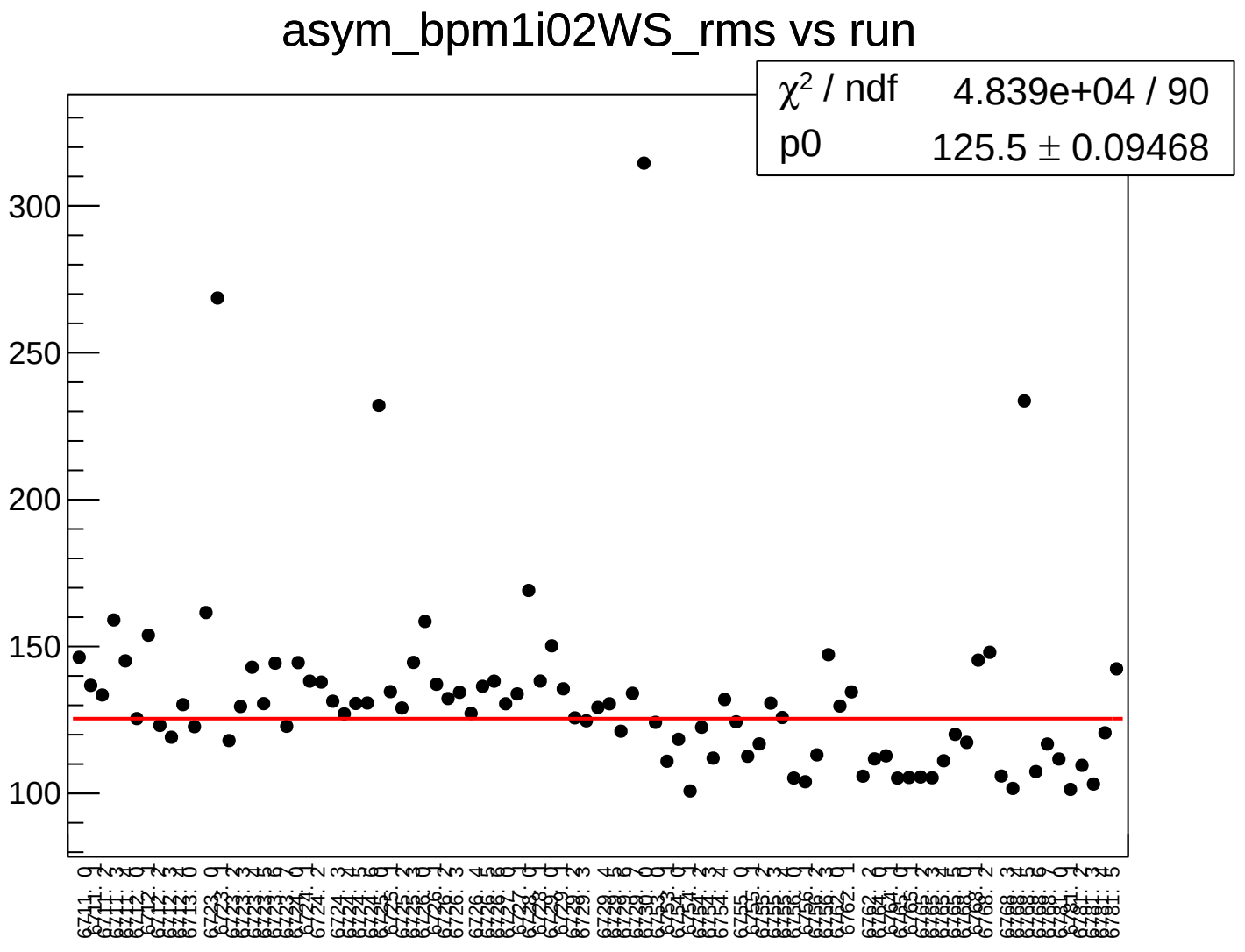

asym_bpm0i07WS_mean vs run
χ² / ndf 98.3 / 90
p0 2517 ± 313.8
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −143
Std Dev 0
5
4
3
2
1
0
−1
−2

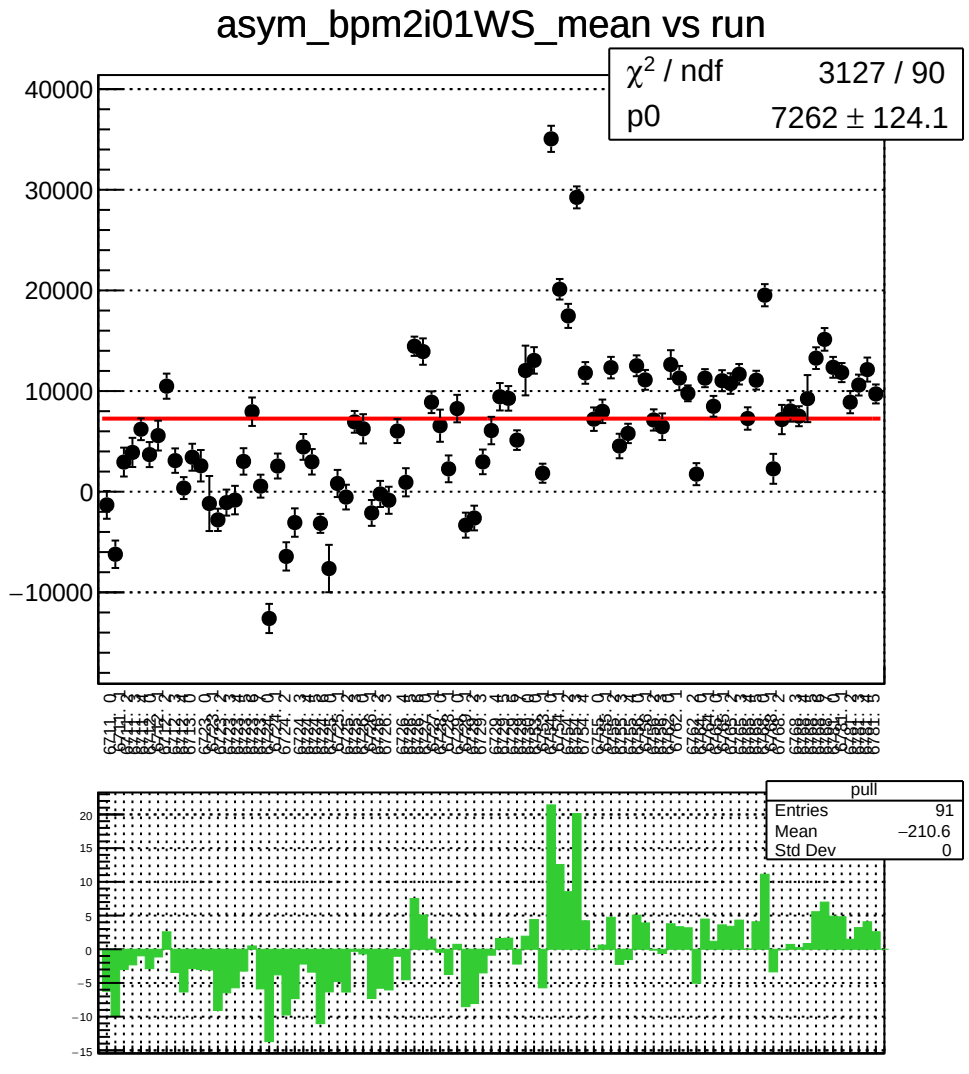

pull1D
Entries 91
Mean −0.07357
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

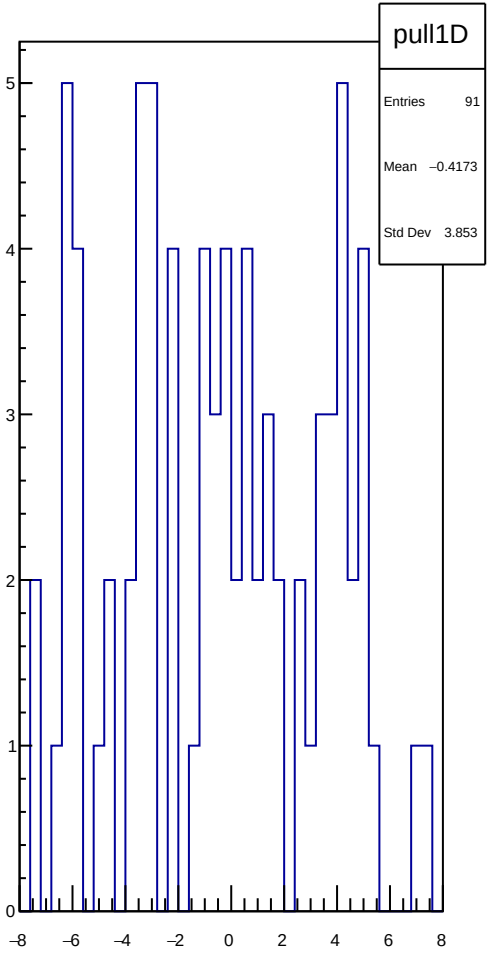

asym_bpm0i07WS_rms vs run
χ² / ndf 4.461e+04 / 90
p0 294.3 ± 0.2219
450
400
350
300
250

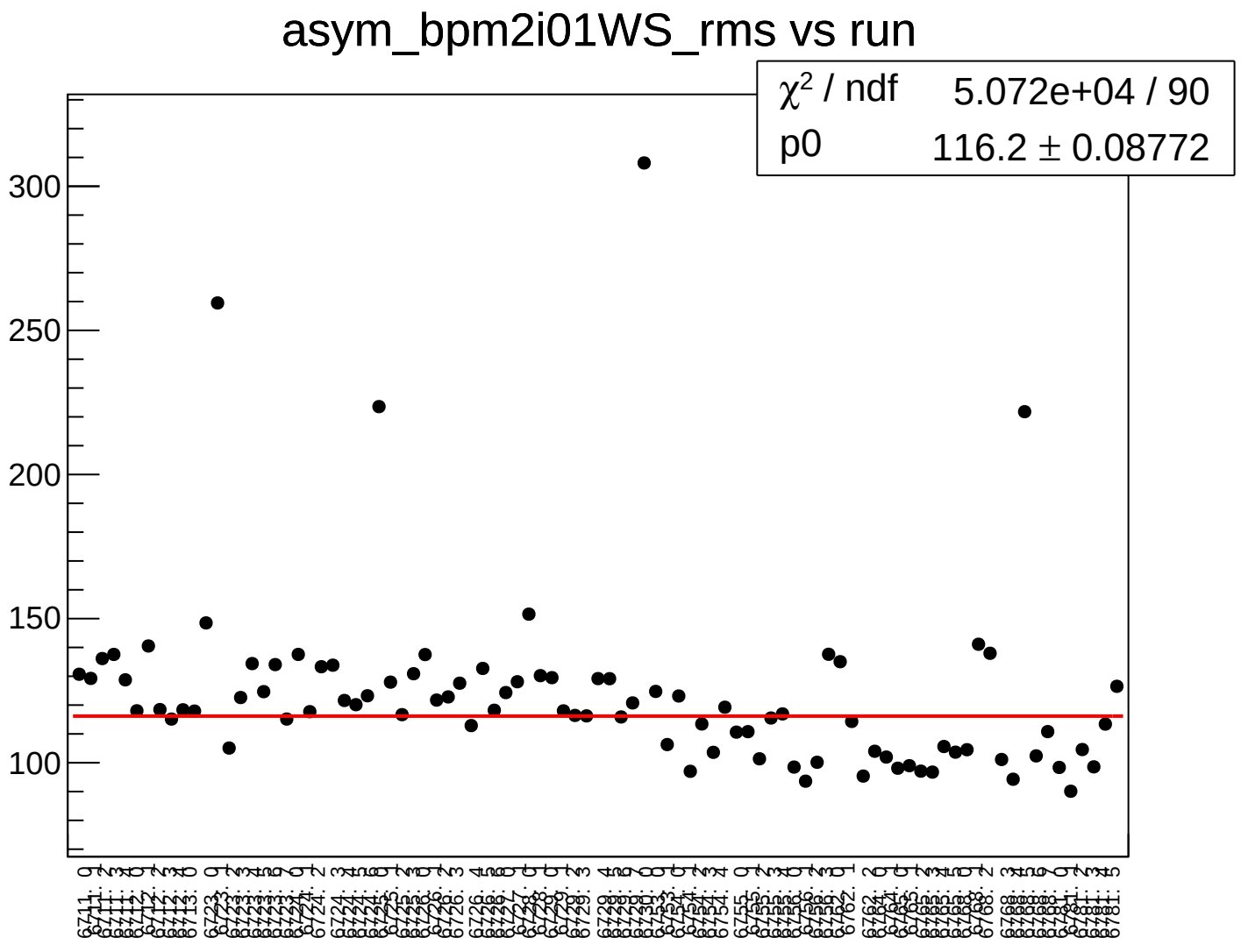

asym_bpm1i02WS_mean vs run
χ² / ndf 2643 / 90
p0 7652 ± 133.9
30000
20000
10000
0
−10000
pull
Entries 91
Mean −205.2
Std Dev 0
20
15
10
5
0
−5
−10

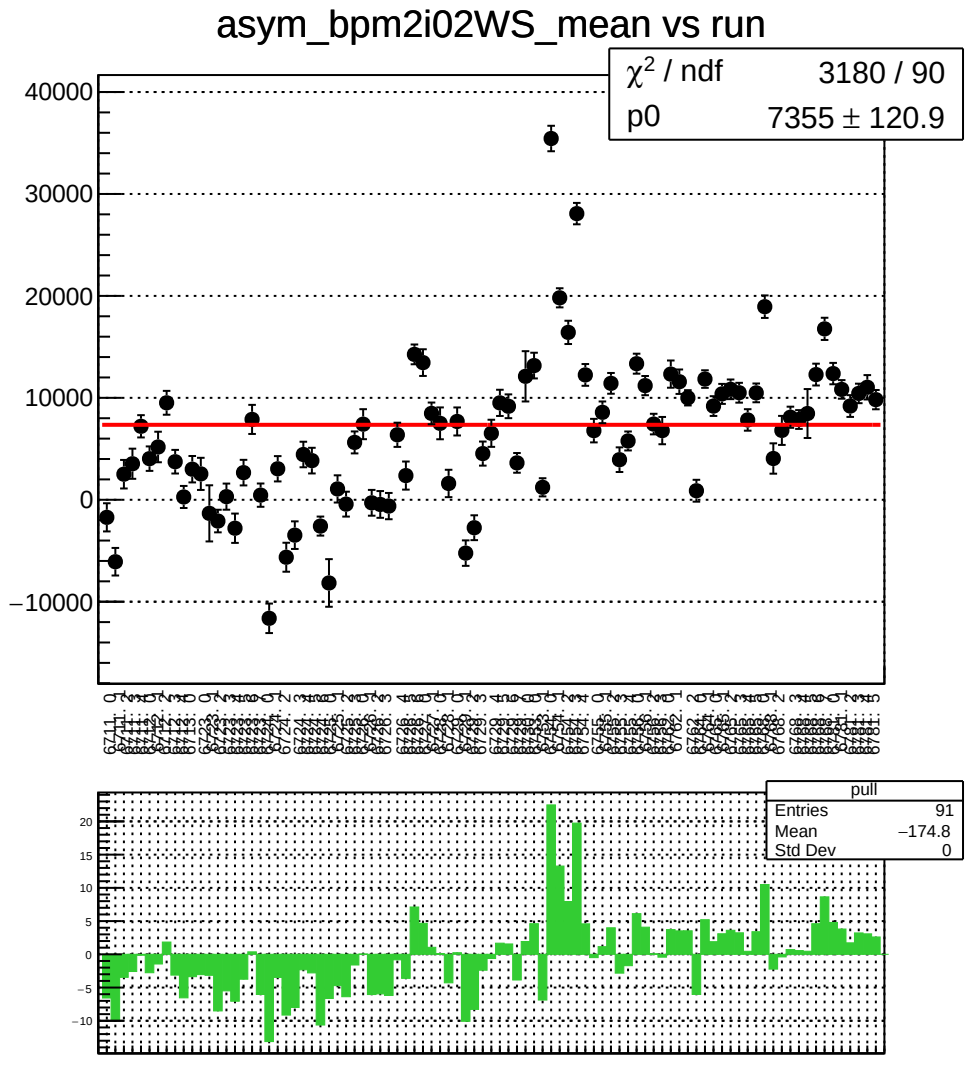

pull1D
Entries 91
Mean −0.589
Std Dev 3.698
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

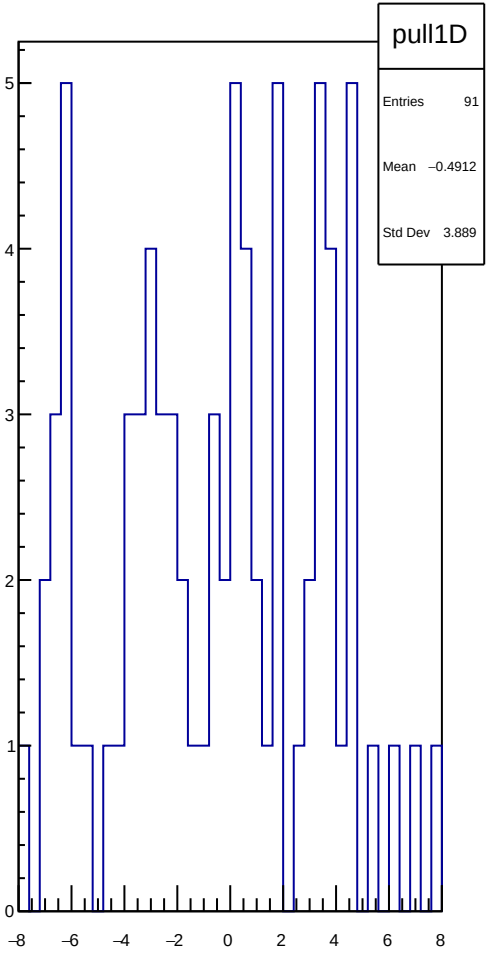

asym_bpm1i02WS_rms vs run
χ² / ndf 4.839e+04 / 90
p0 125.5 ± 0.09468
300
250
200
150
100

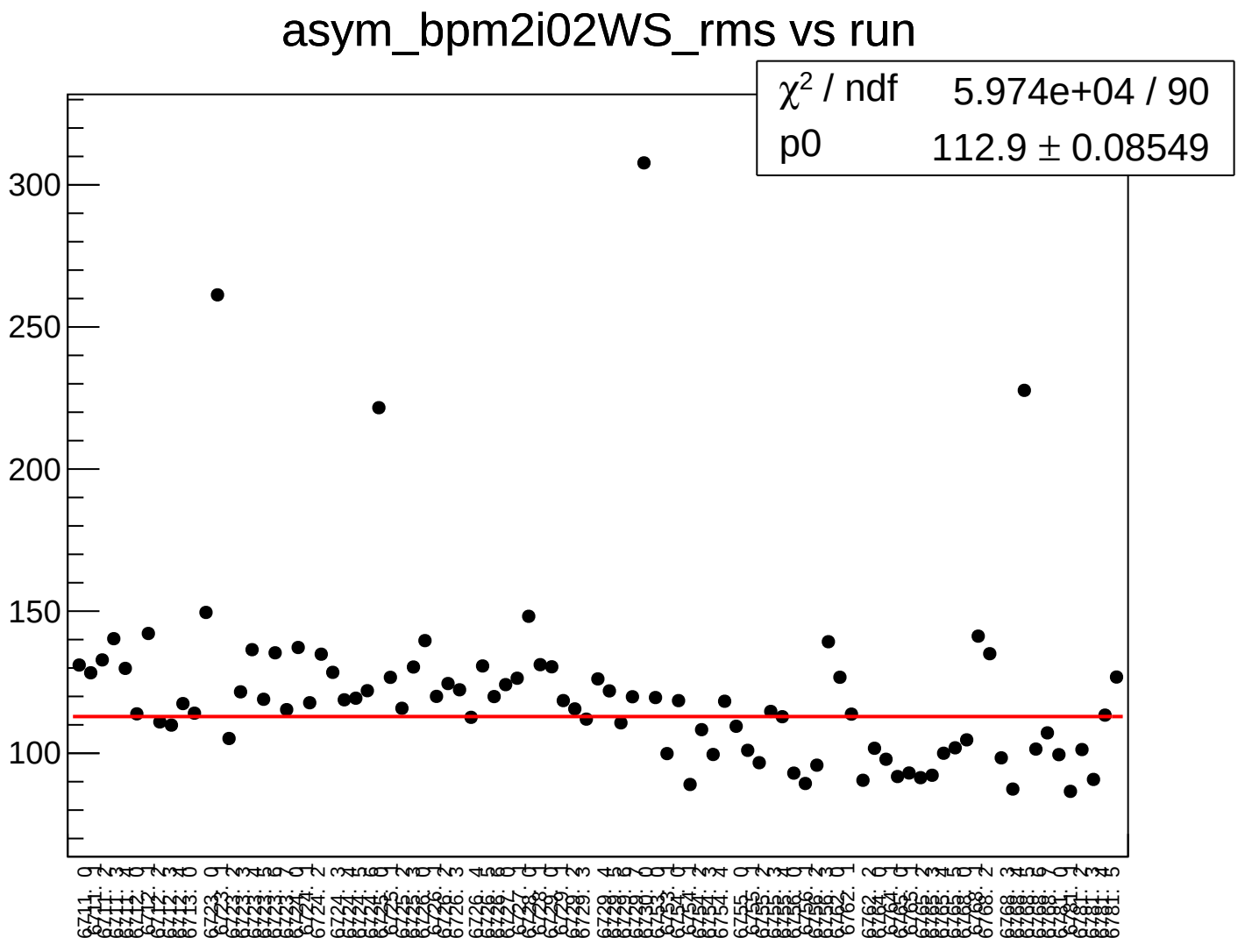

asym_bpm2i01WS_mean vs run
χ² / ndf 3127 / 90
p0 7262 ± 124.1
40000
30000
20000
10000
0
−10000
pull
Entries 91
Mean −210.6
Std Dev 0
20
15
10
5
0
−5
−10
−15

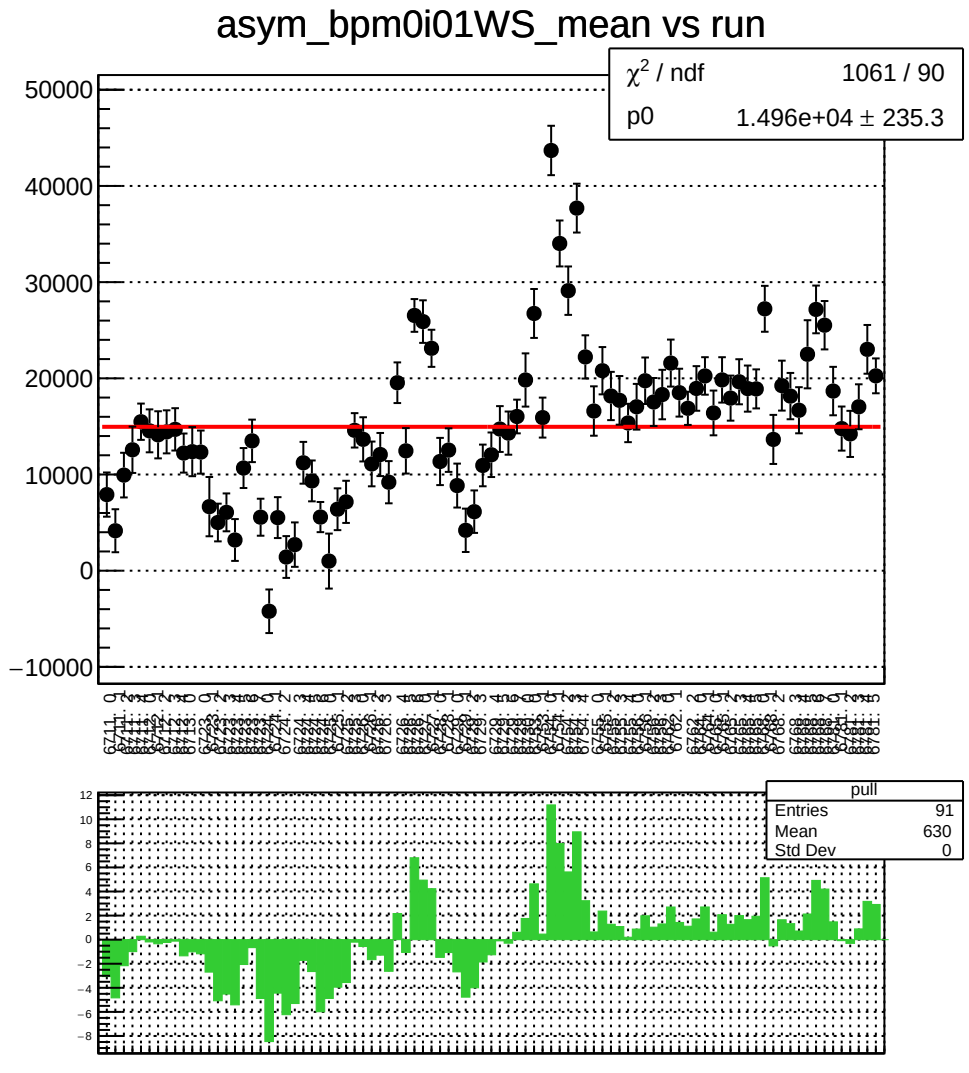

pull1D
Entries 91
Mean −0.4173
Std Dev 3.853
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

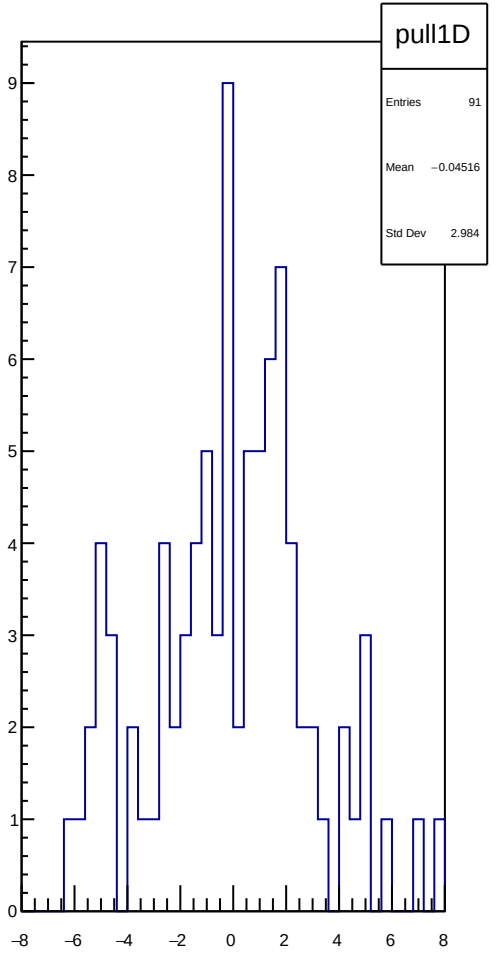

asym_bpm2i01WS_rms vs run
χ^2 / ndf 5.072e+04 / 90
p0 116.2 ± 0.08772
300
250
200
150
100


asym_bpm2i02WS_mean vs run
χ² / ndf 3180 / 90
p0 7355 ± 120.9
40000
30000
20000
10000
0
−10000
pull
Entries 91
Mean −174.8
Std Dev 0
20
15
10
5
0
−5
−10

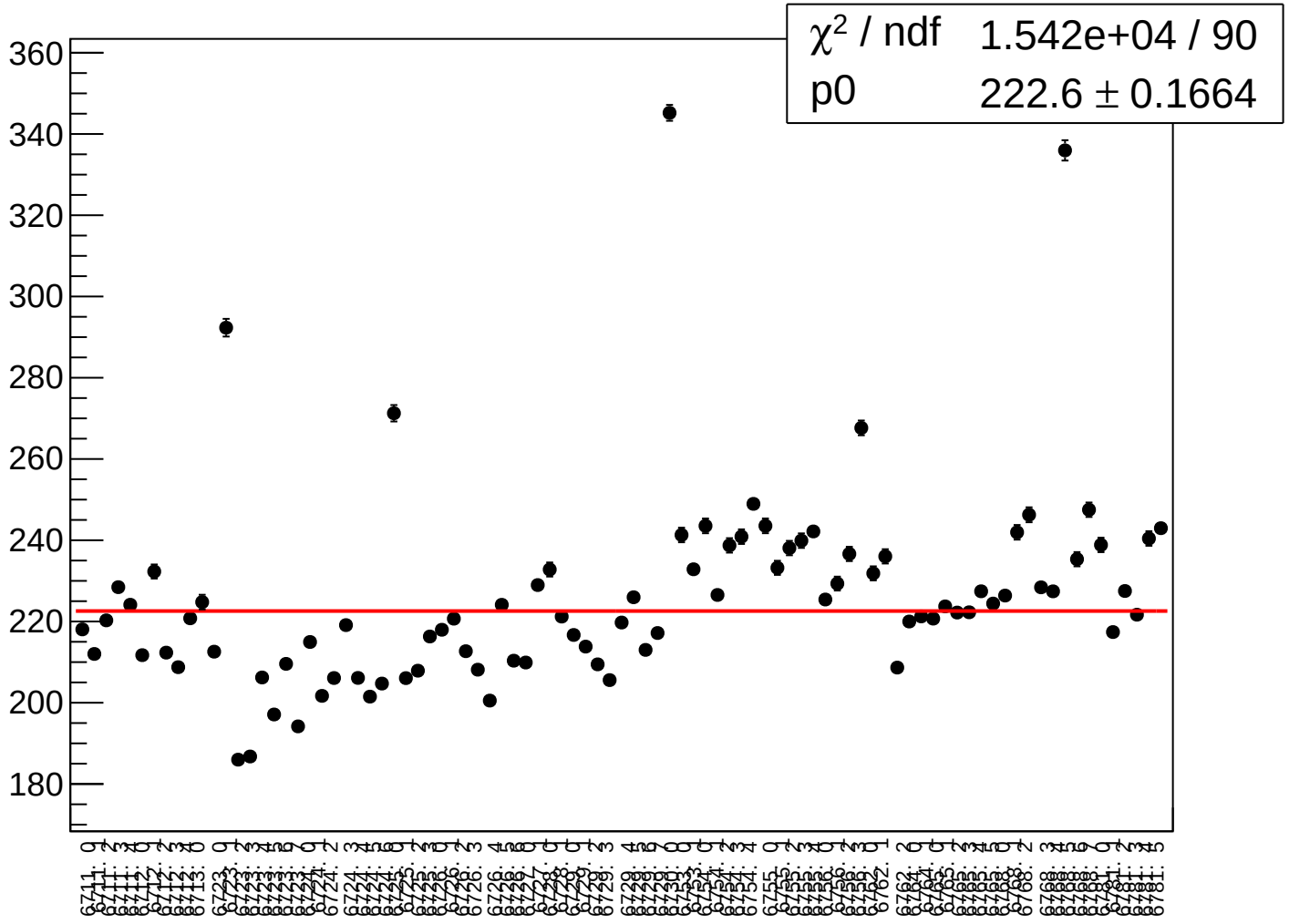

pull1D
Entries 91
Mean −0.4912
Std Dev 3.889
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

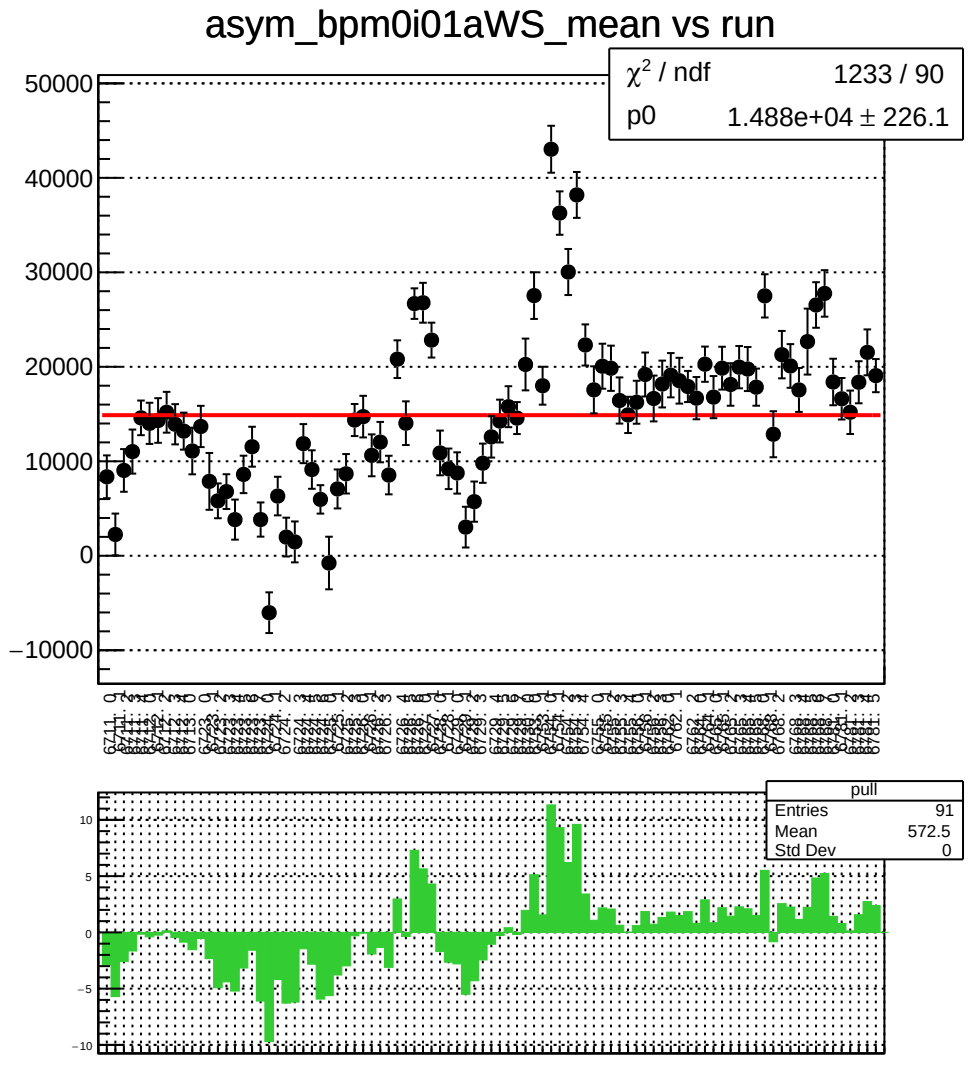

asym_bpm2i02WS_rms vs run
χ^2 / ndf 5.974e+04 / 90
p0 112.9 ± 0.08549
300
250
200
150
100

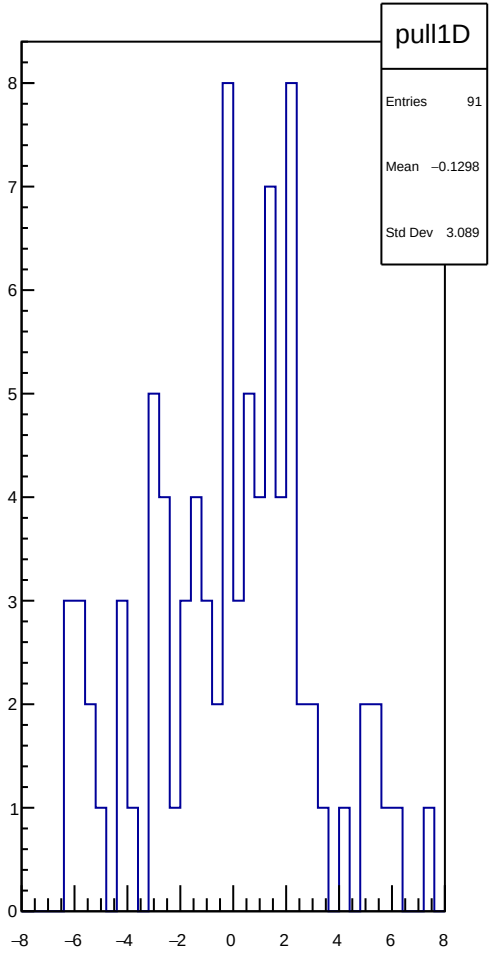

asym_bpm0i01WS_mean vs run
χ² / ndf 1061 / 90
p0 1.496e+04 ± 235.3
pull
Entries 91
Mean 630
Std Dev 0

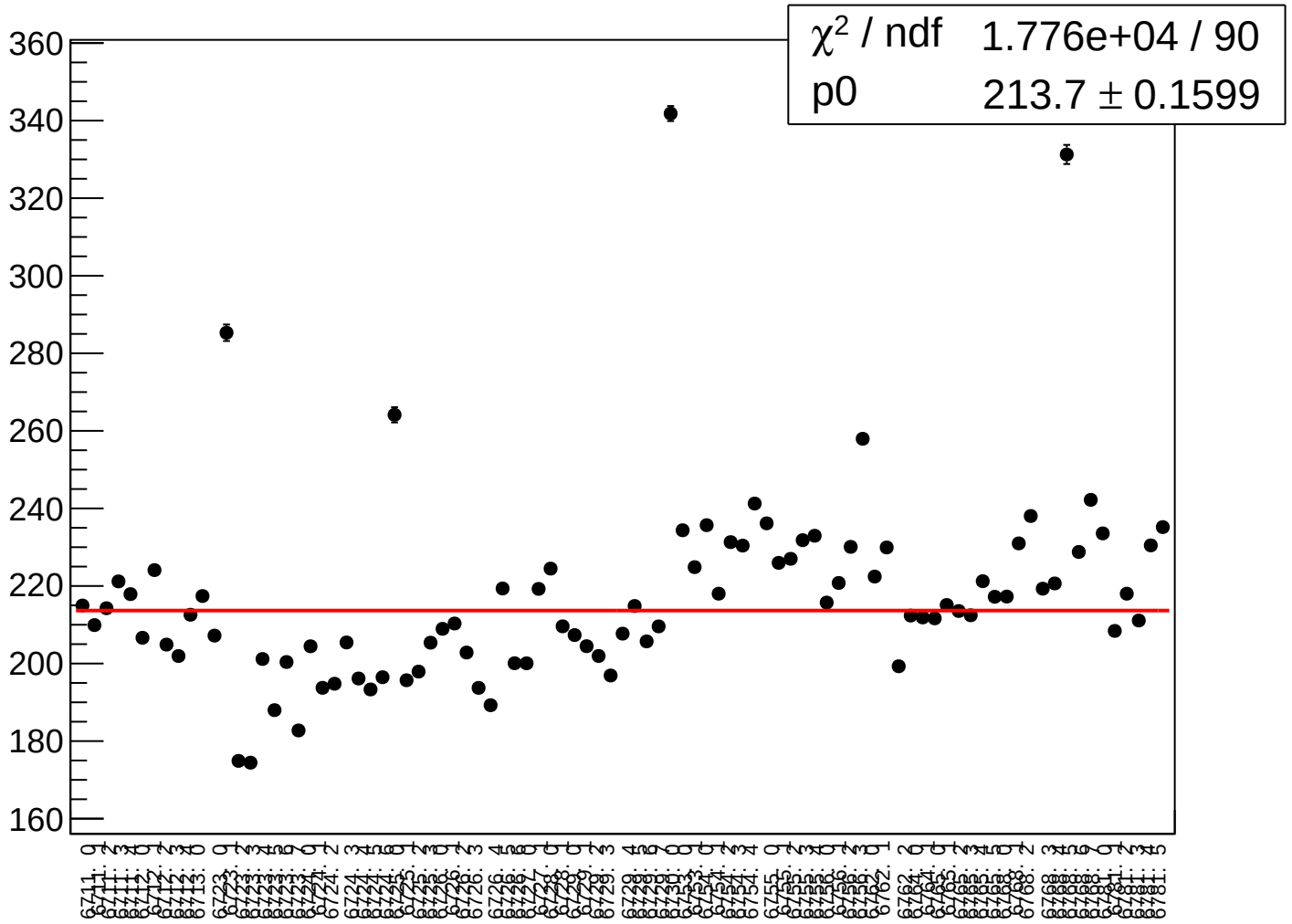

pull1D
Entries 91
Mean −0.04516
Std Dev 2.984

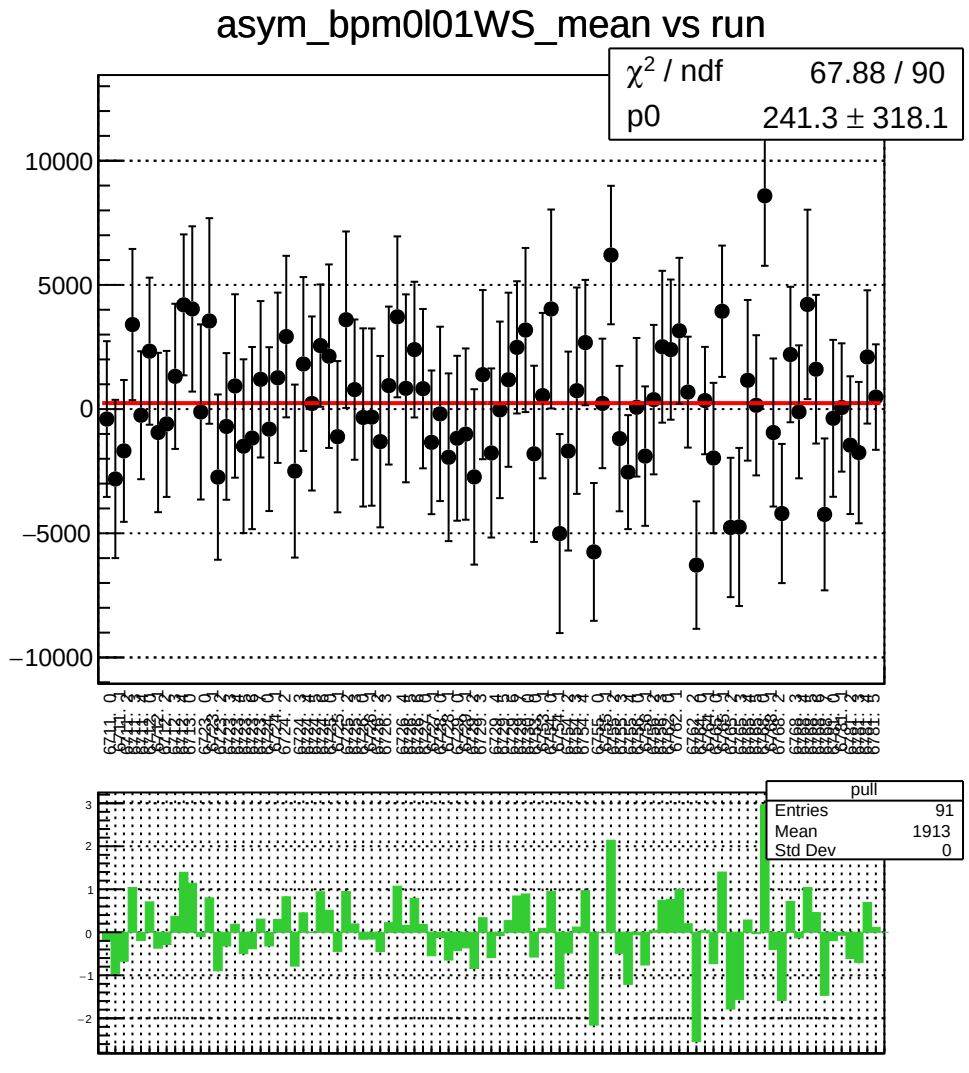
asym_bpm0i01WS_rms vs run

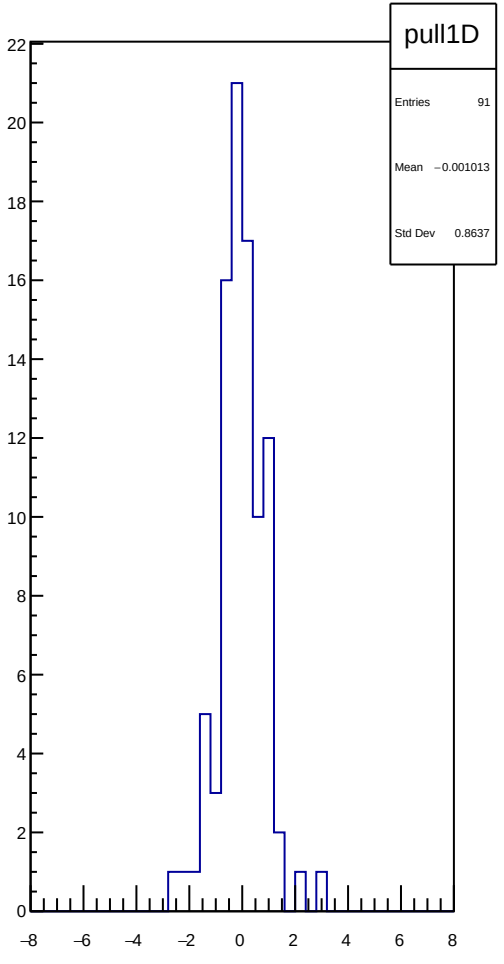


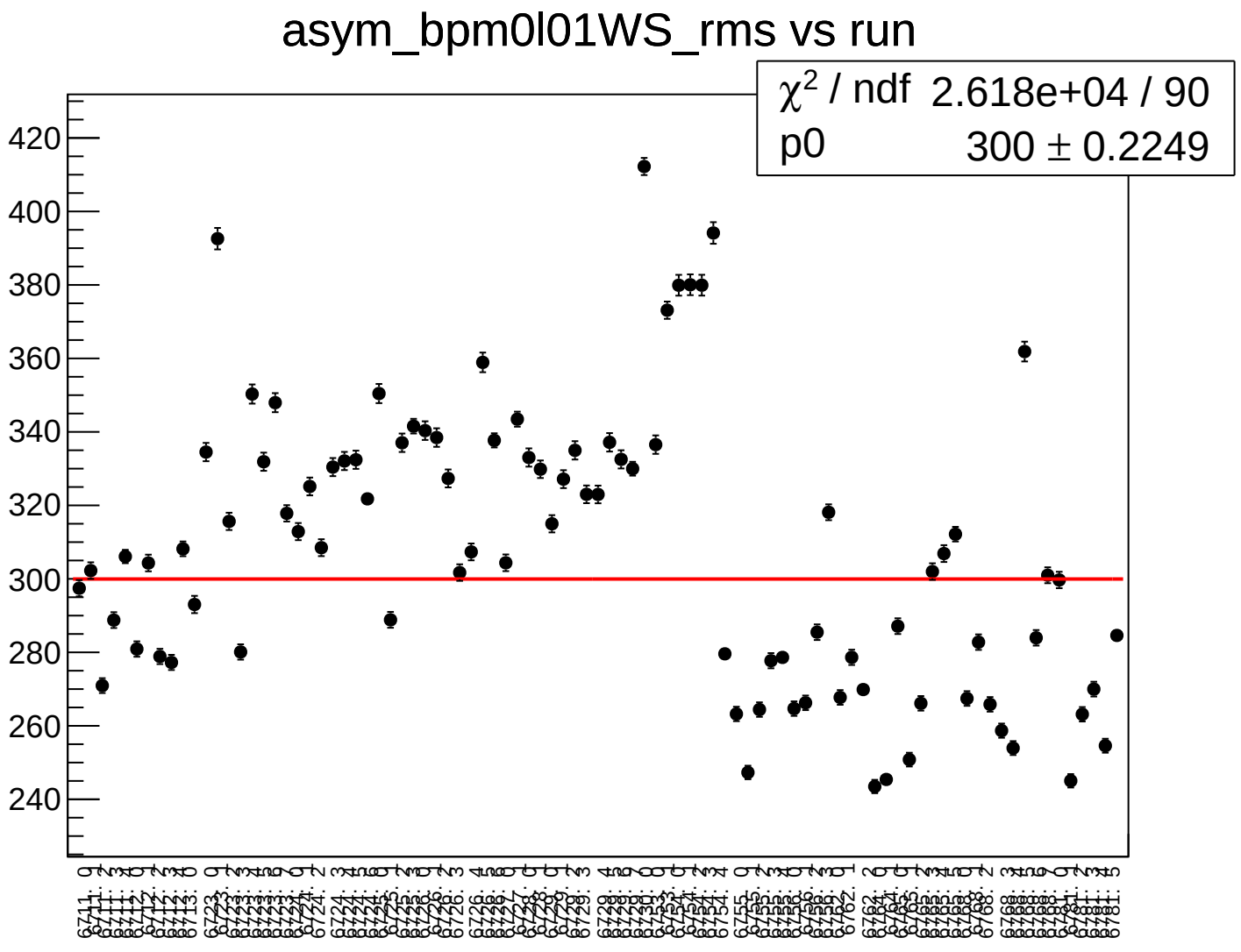

asym_bpm0i01aWS_mean vs run
χ² / ndf 1233 / 90
p0 1.488e+04 ± 226.1
pull
Entries 91
Mean 572.5
Std Dev 0

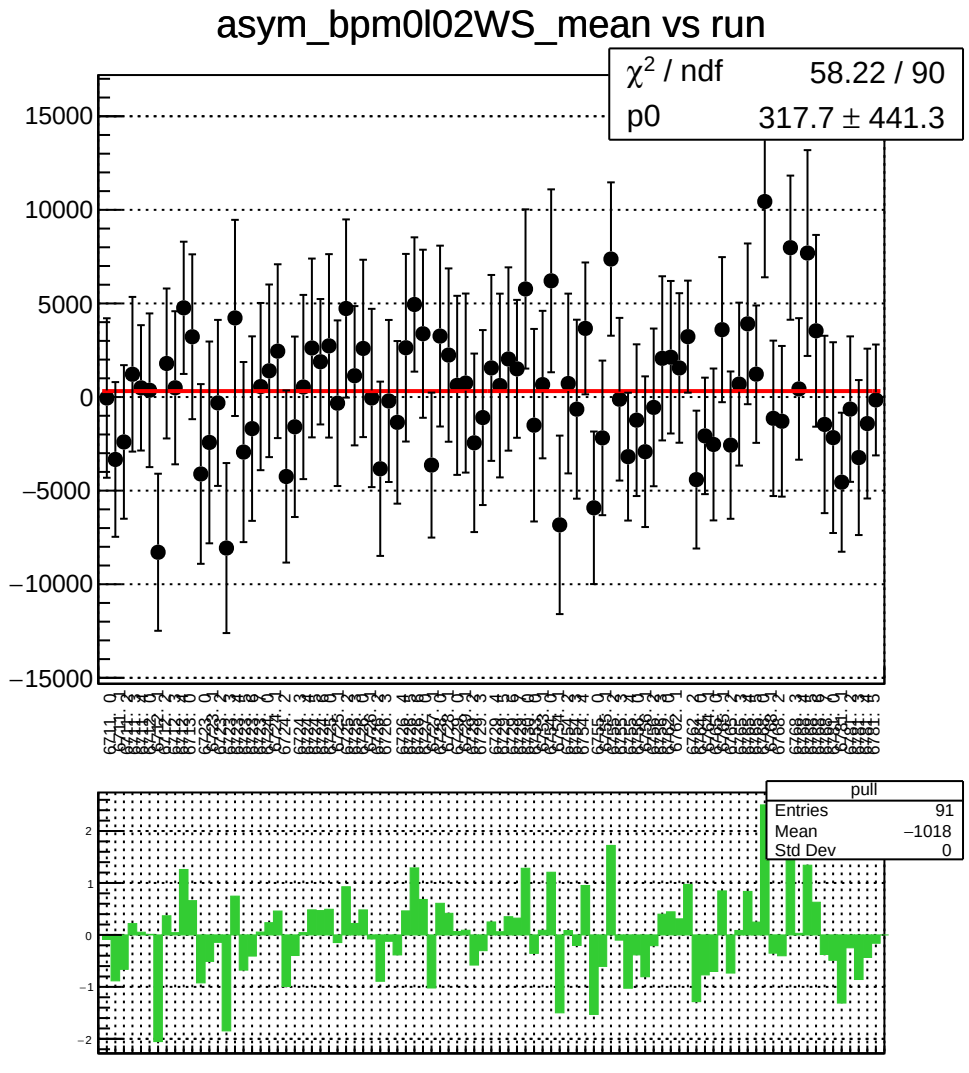

pull1D
Entries 91
Mean −0.1298
Std Dev 3.089

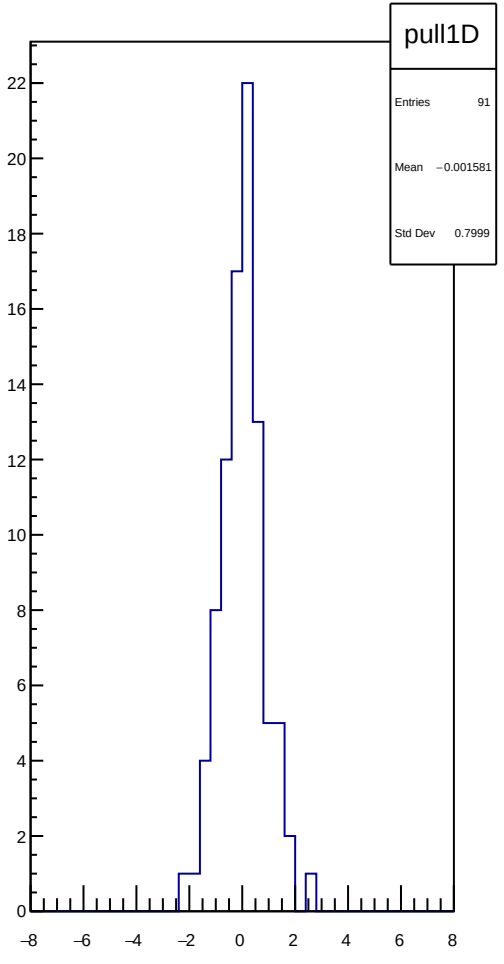

asym_bpm0i01aWS_rms vs run
χ² / ndf 1.776e+04 / 90
p0 213.7 ± 0.1599
360
340
320
300
280
260
240
220
200
180
160

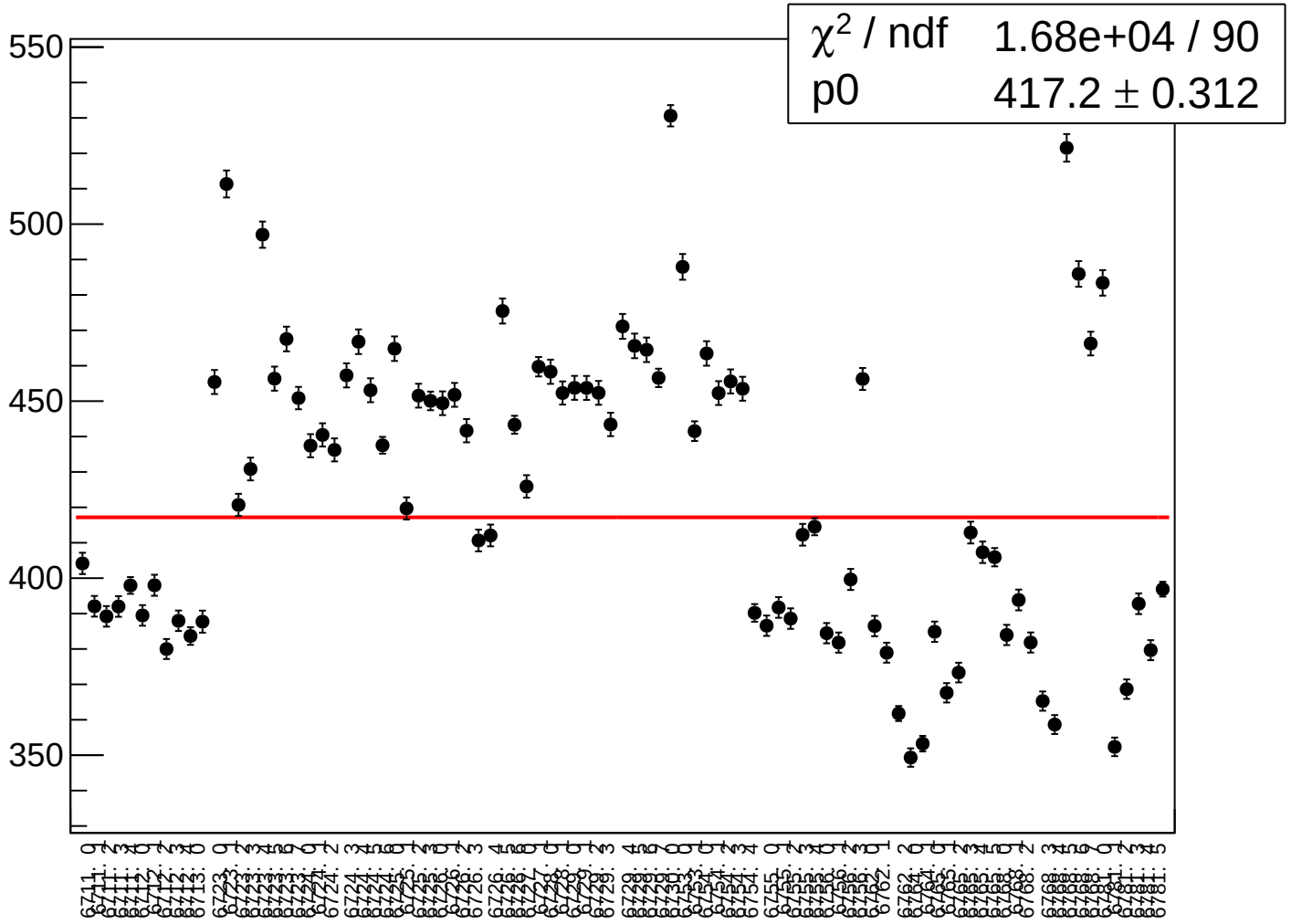

asym_bpm0l01WS_mean vs run
χ² / ndf 67.88 / 90
p0 241.3 ± 318.1
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 1913
Std Dev 0
3
2
1
0
−1
−2

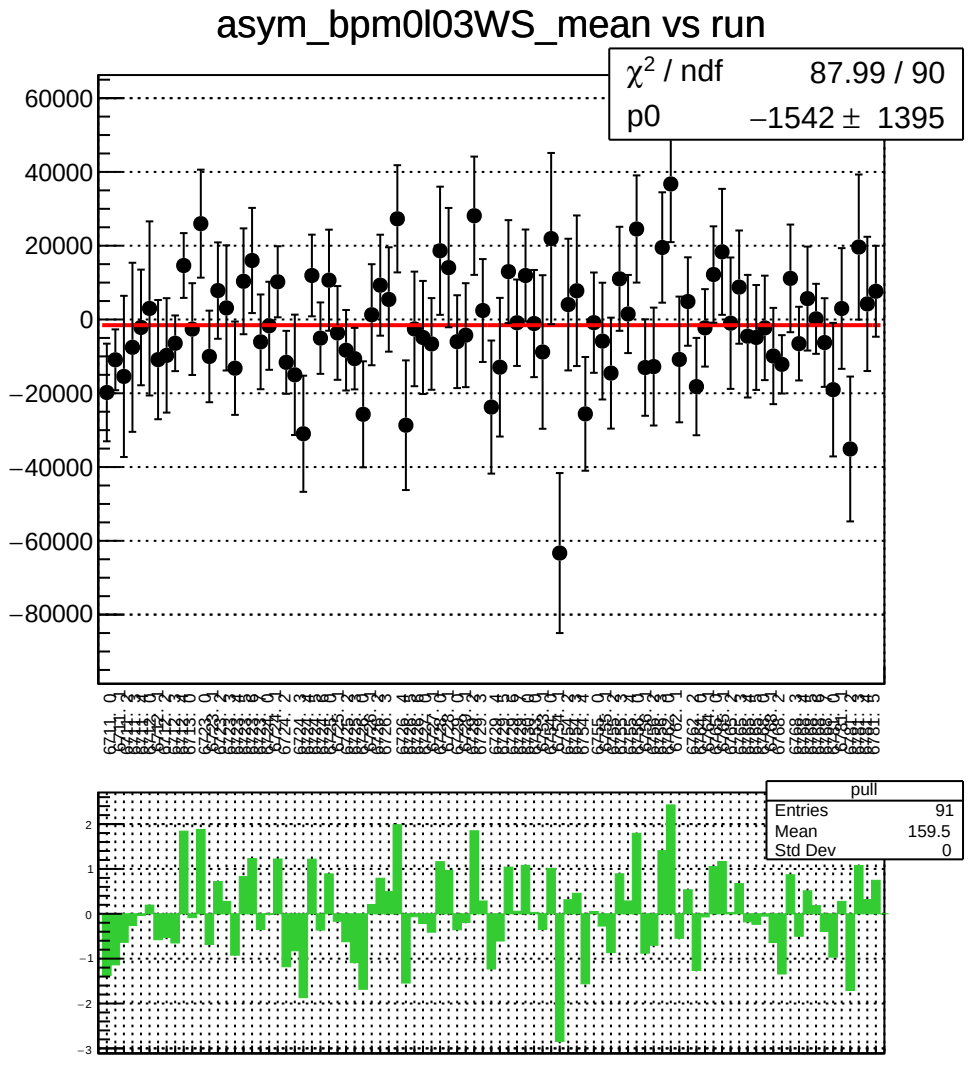

pull1D
Entries 91
Mean −0.001013
Std Dev 0.8637
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

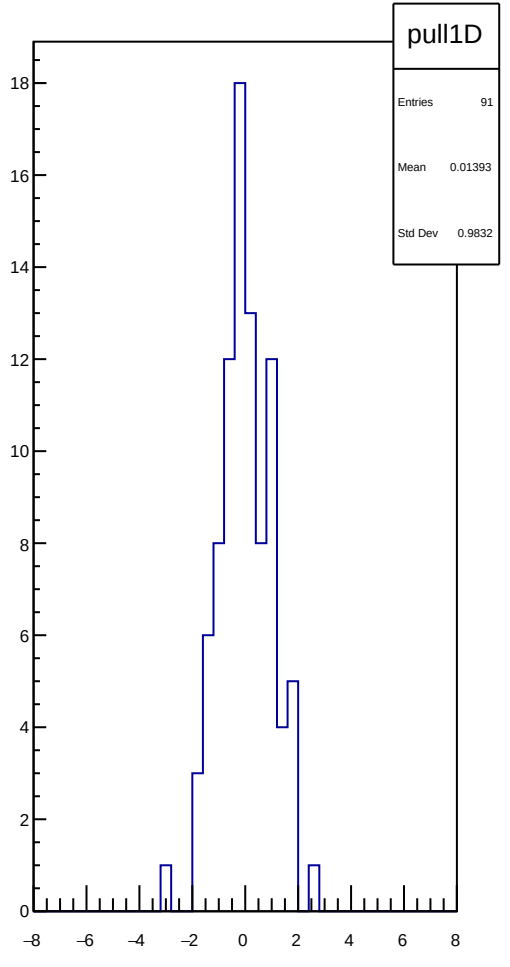

asym_bpm0l01WS_rms vs run
χ² / ndf 2.618e+04 / 90
p0 300 ± 0.2249
420
400
380
360
340
320
300
280
260
240

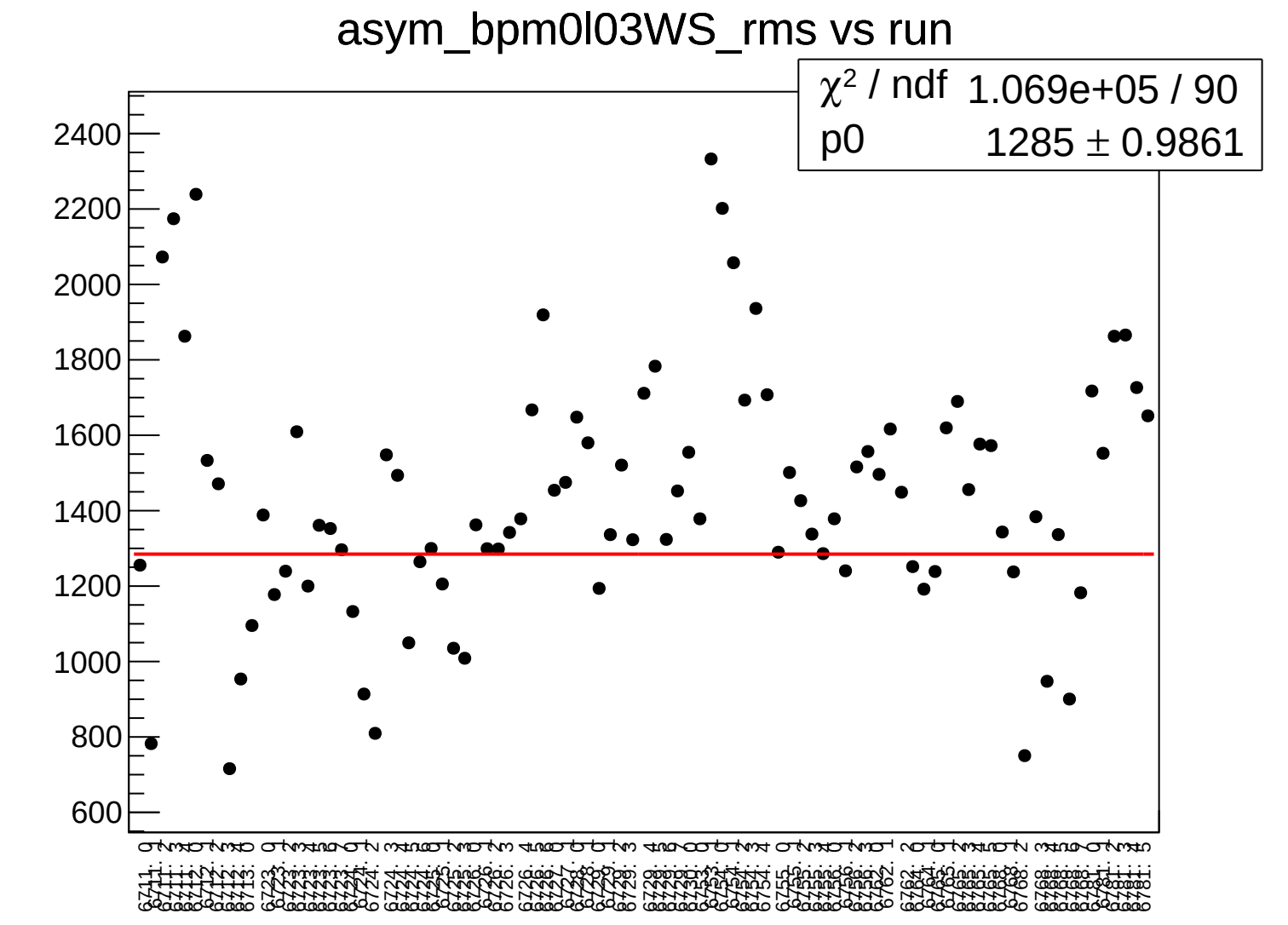

asym_bpm0l02WS_mean vs run
χ² / ndf 58.22 / 90
p0 317.7 ± 441.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −1018
Std Dev 0
2
1
0
−1
−2

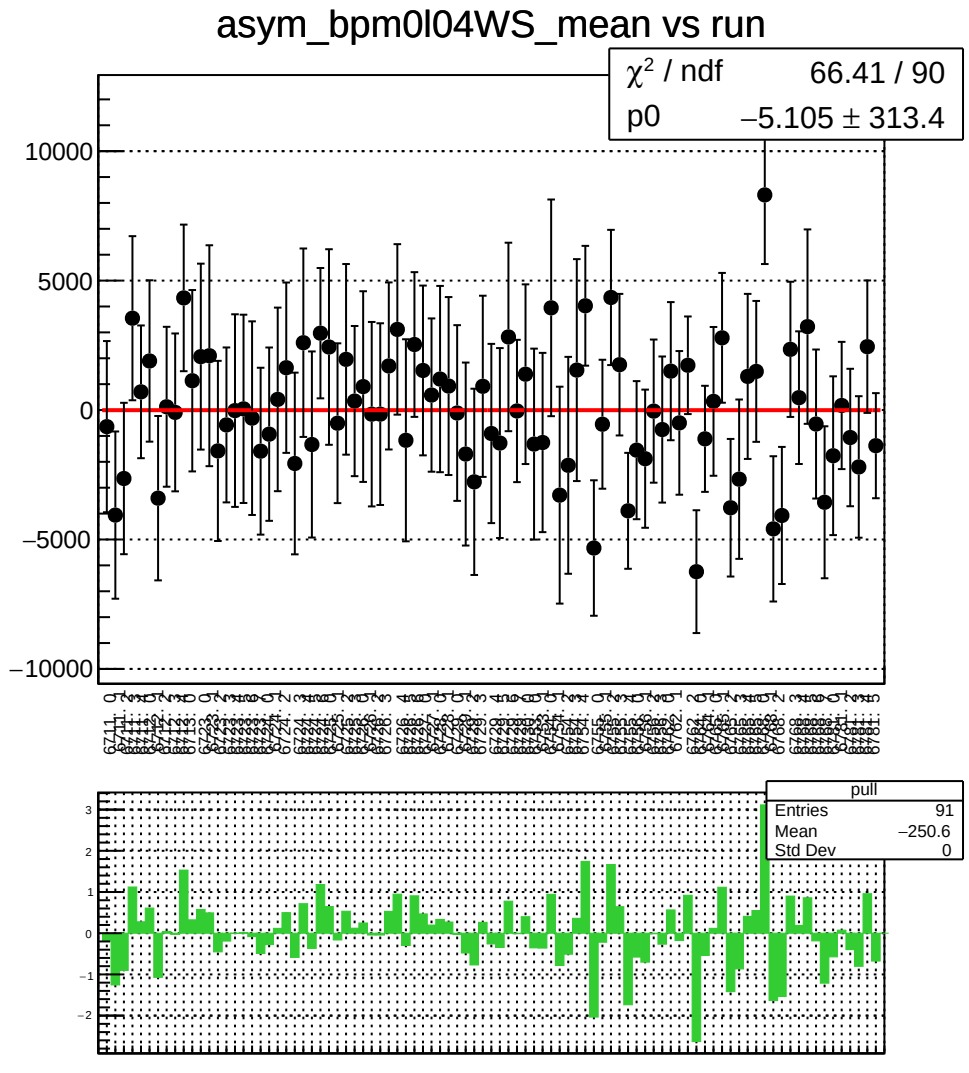

pull1D
Entries 91
Mean −0.001581
Std Dev 0.7999
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

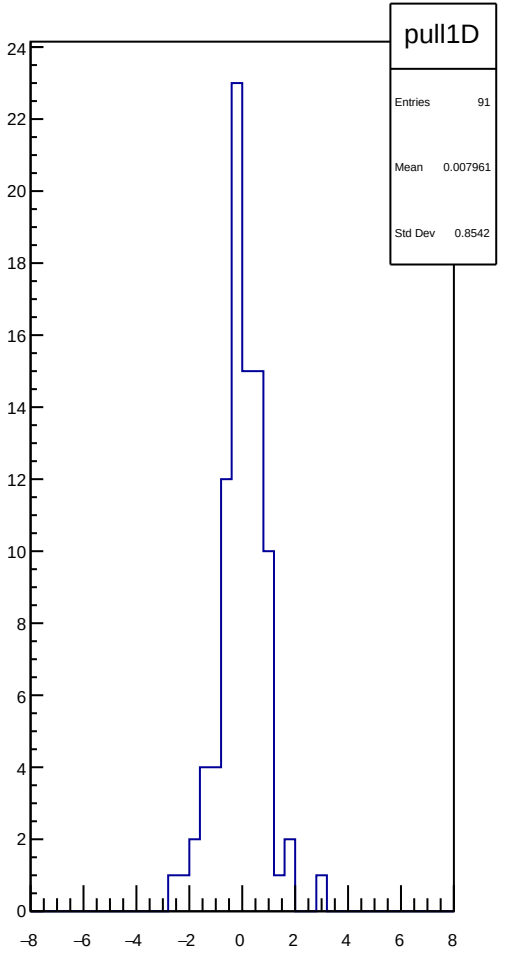

asym_bpm0l02WS_rms vs run
χ² / ndf 1.68e+04 / 90
p0 417.2 ± 0.312
550
500
450
400
350

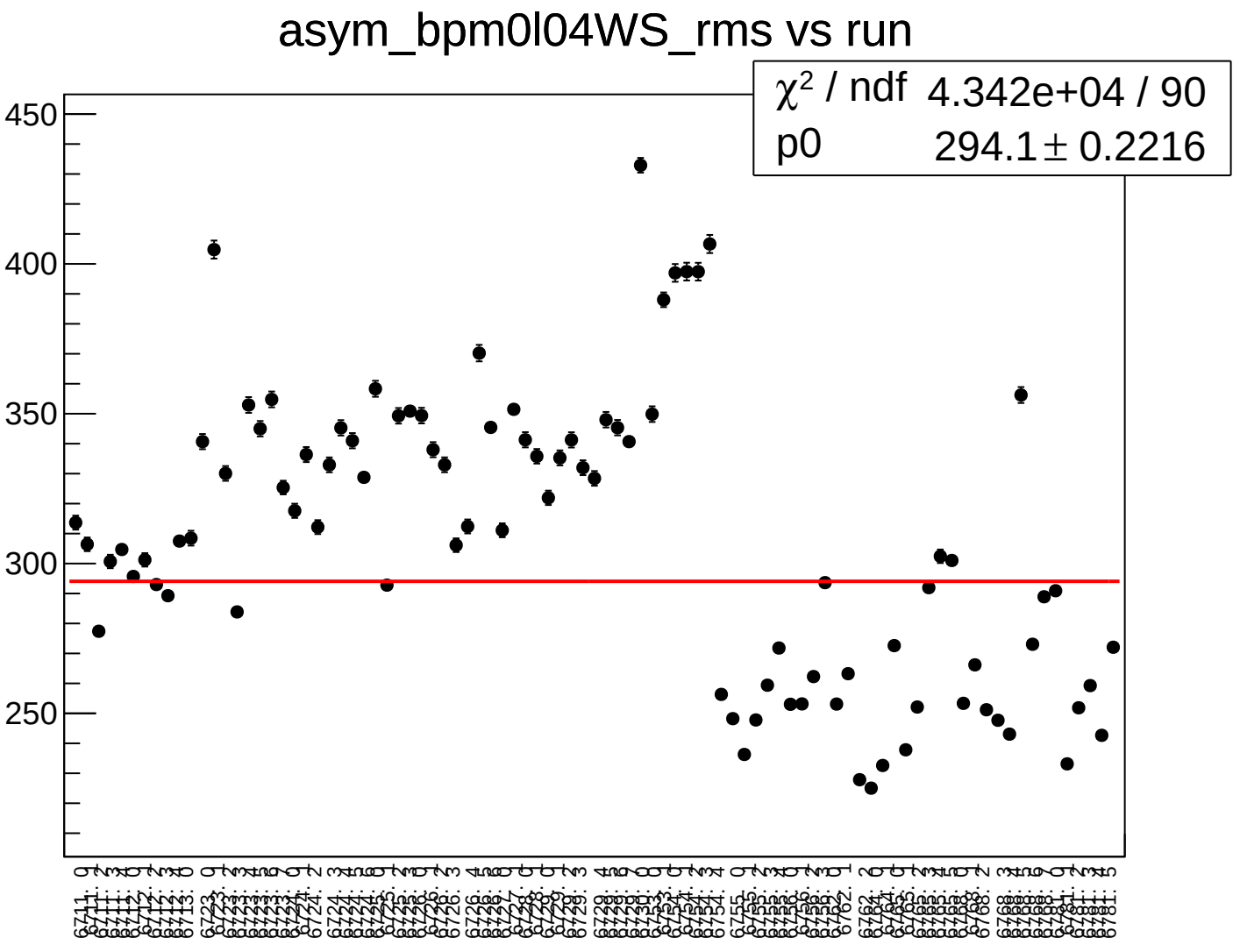

asym_bpm0l03WS_mean vs run
χ² / ndf 87.99 / 90
p0 −1542 ± 1395
pull
Entries 91
Mean 159.5
Std Dev 0

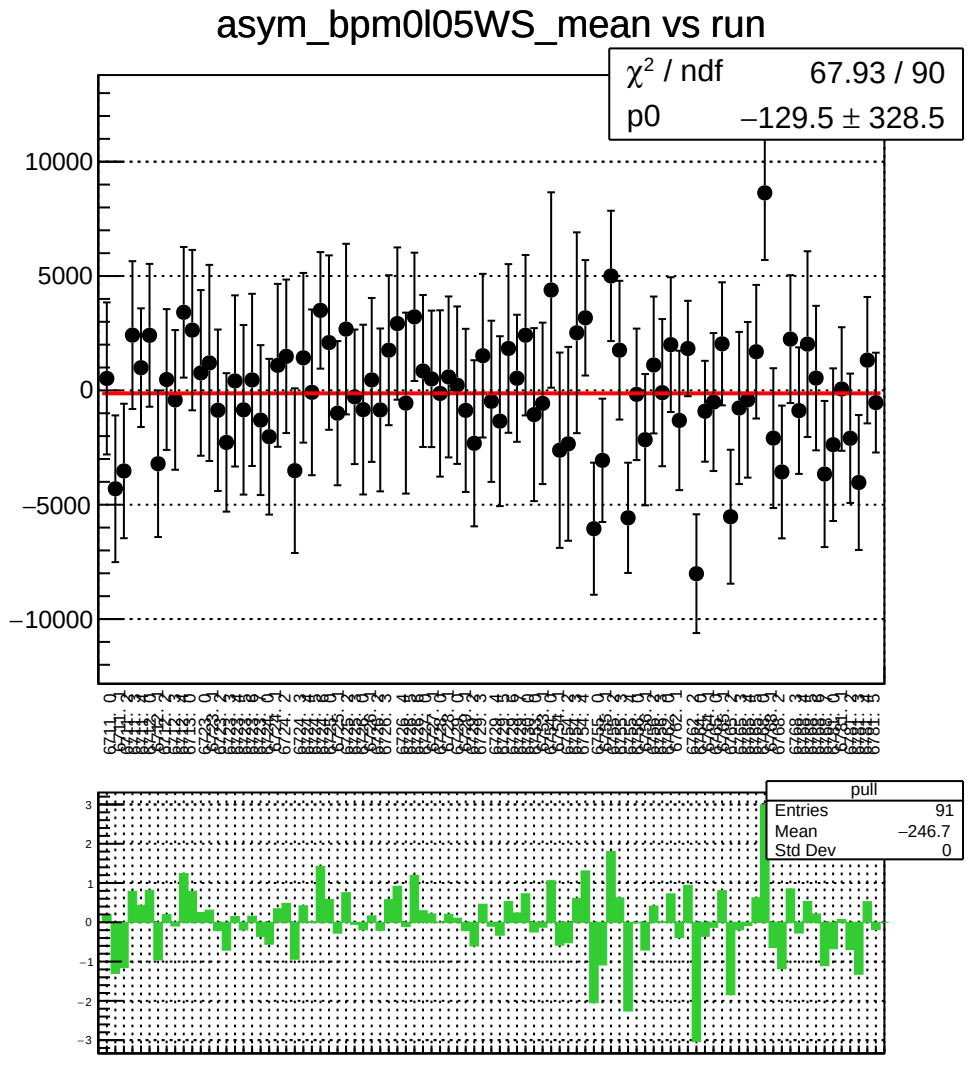

pull1D
Entries 91
Mean 0.01393
Std Dev 0.9832

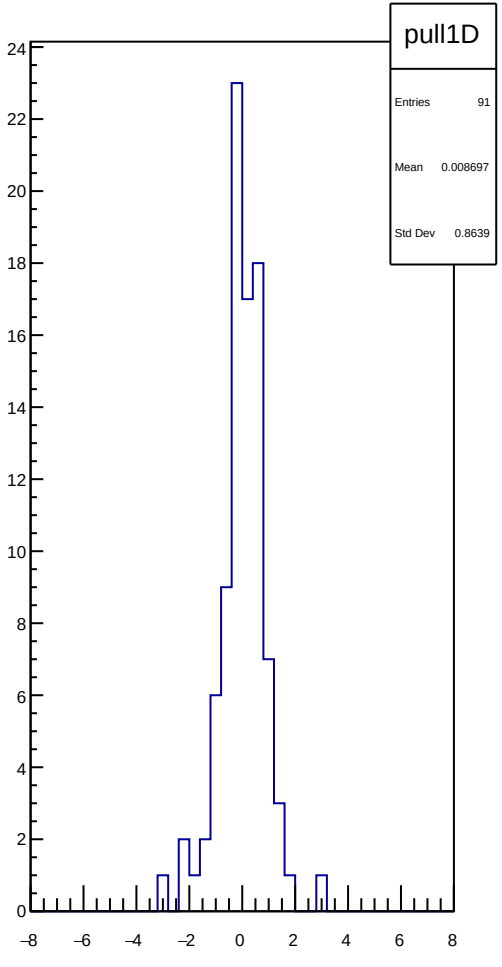

asym_bpm0l03WS_rms vs run
χ² / ndf 1.069e+05 / 90
p0 1285 ± 0.9861
2400
2200
2000
1800
1600
1400
1200
1000
800
600

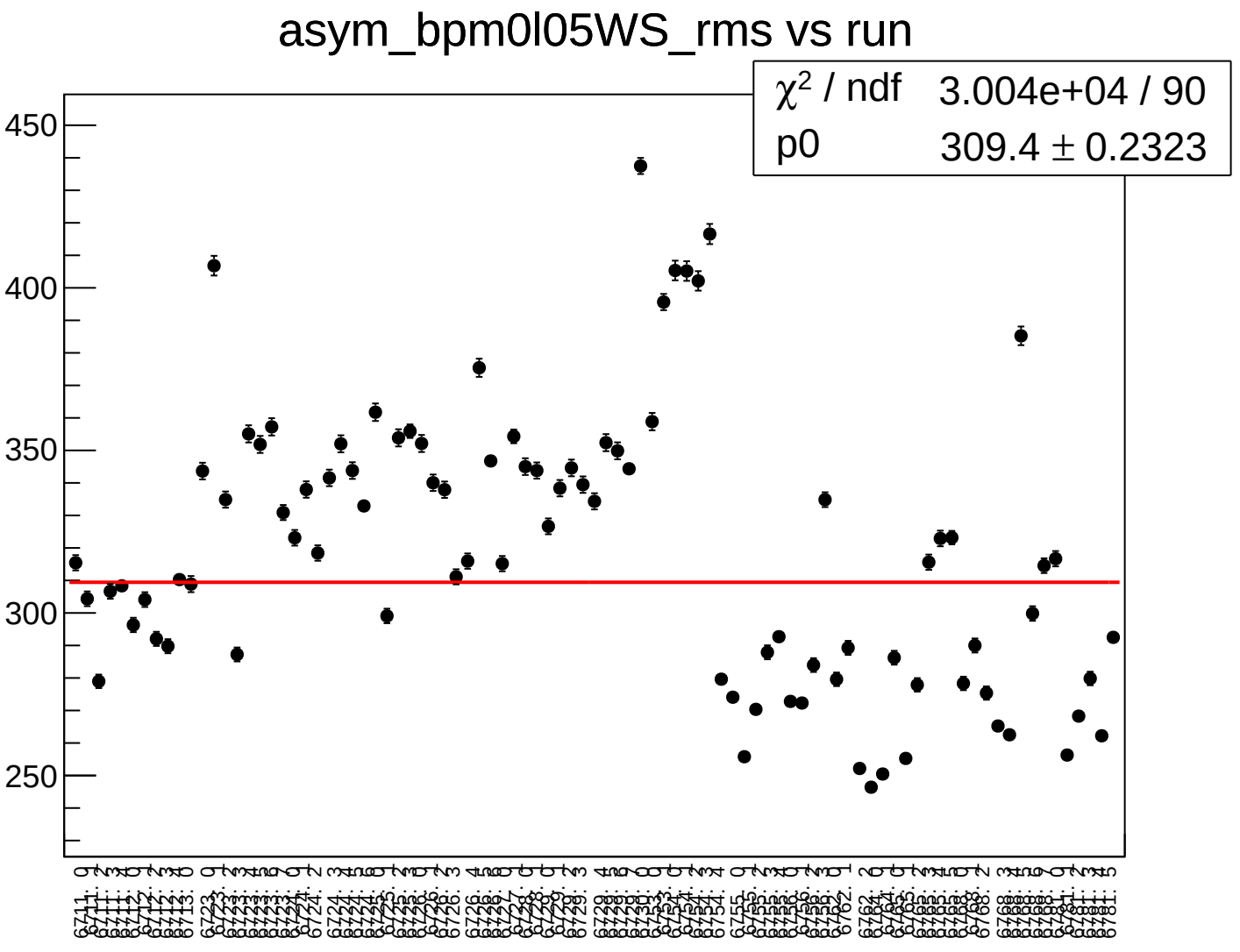

asym_bpm0l04WS_mean vs run
χ² / ndf 66.41 / 90
p0 −5.105 ± 313.4
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −250.6
Std Dev 0
3
2
1
0
−1
−2

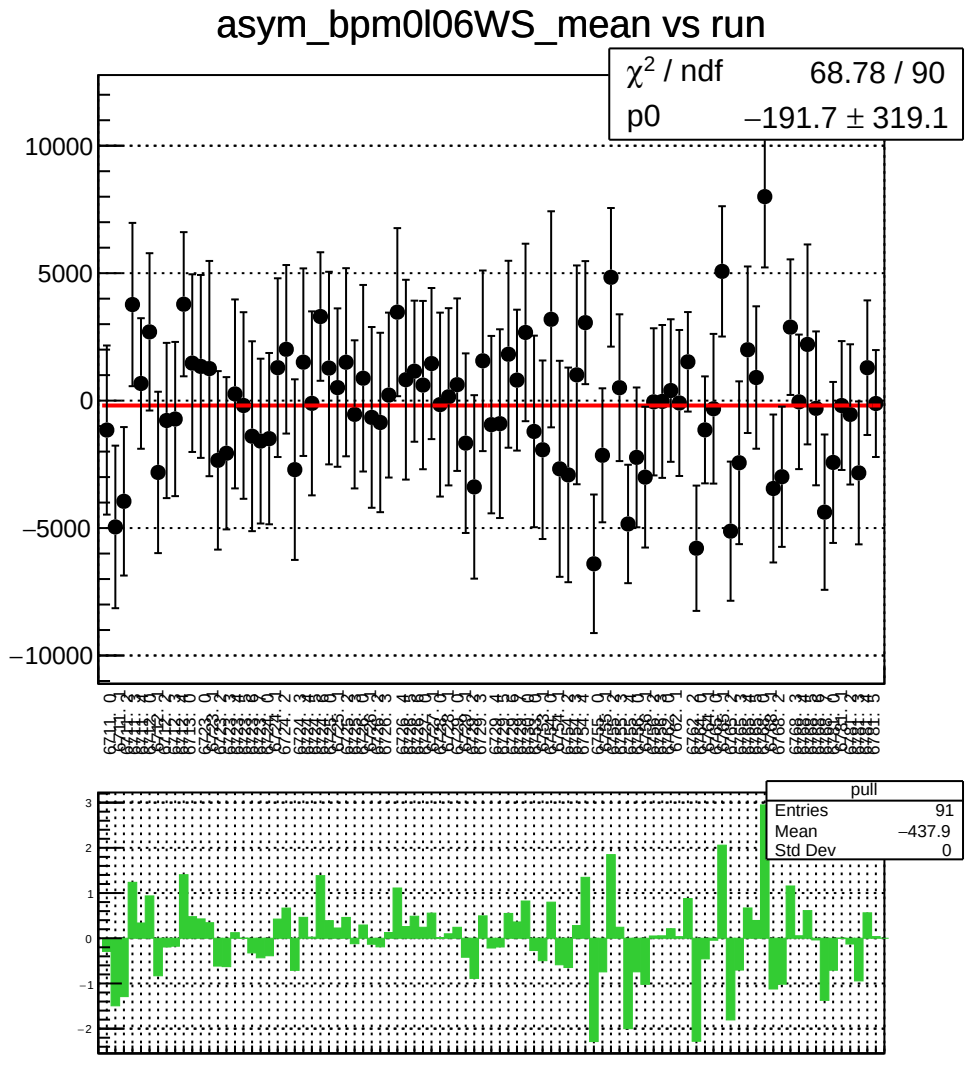

pull1D
Entries 91
Mean 0.007961
Std Dev 0.8542
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

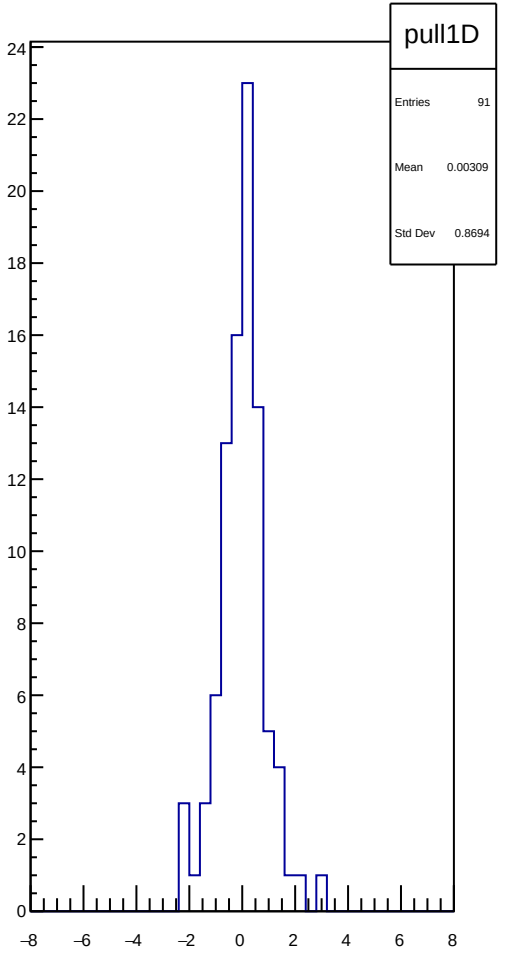

asym_bpm0l04WS_rms vs run
χ² / ndf 4.342e+04 / 90
p0 294.1 ± 0.2216
450
400
350
300
250

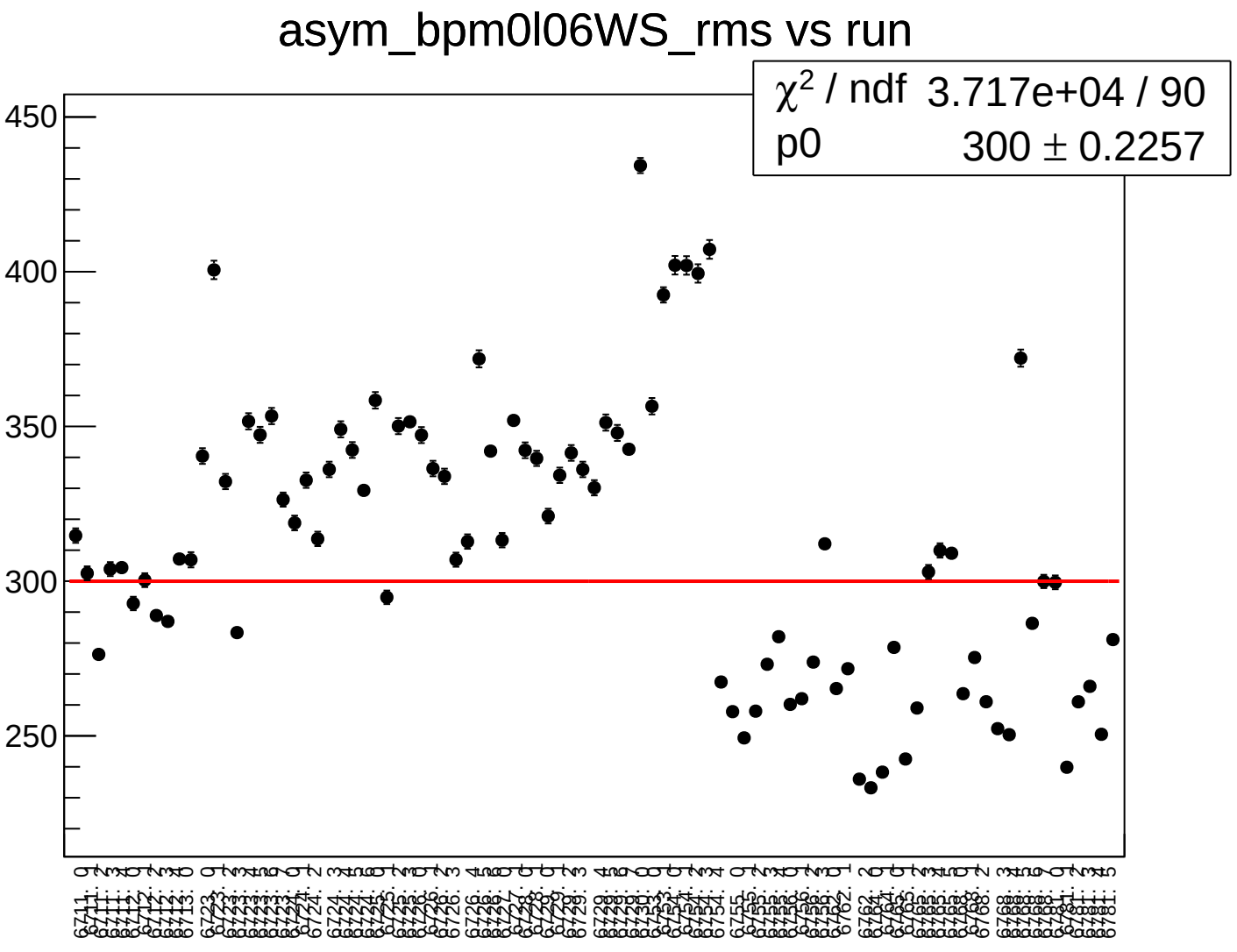

asym_bpm0l05WS_mean vs run
χ² / ndf 67.93 / 90
p0 −129.5 ± 328.5
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −246.7
Std Dev 0
3
2
1
0
−1
−2
−3

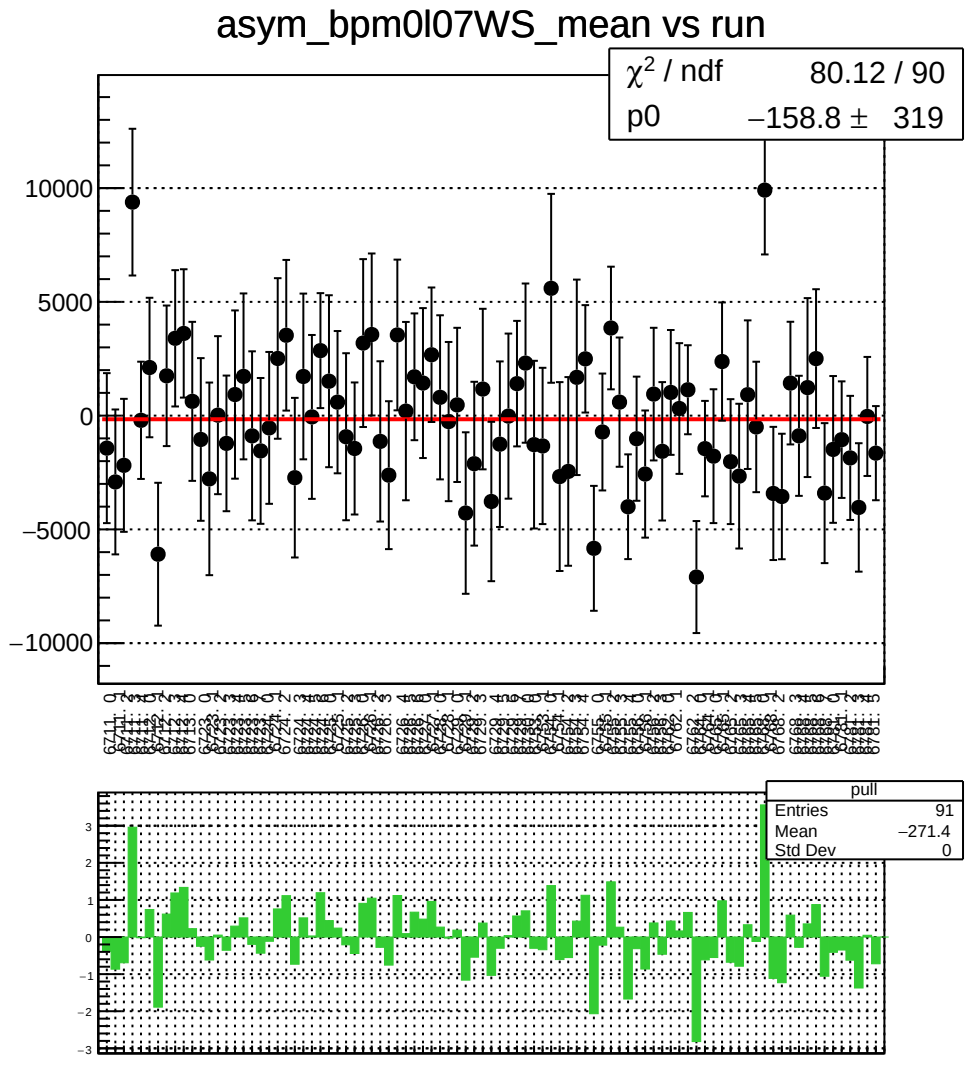

pull1D
Entries 91
Mean 0.008697
Std Dev 0.8639
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

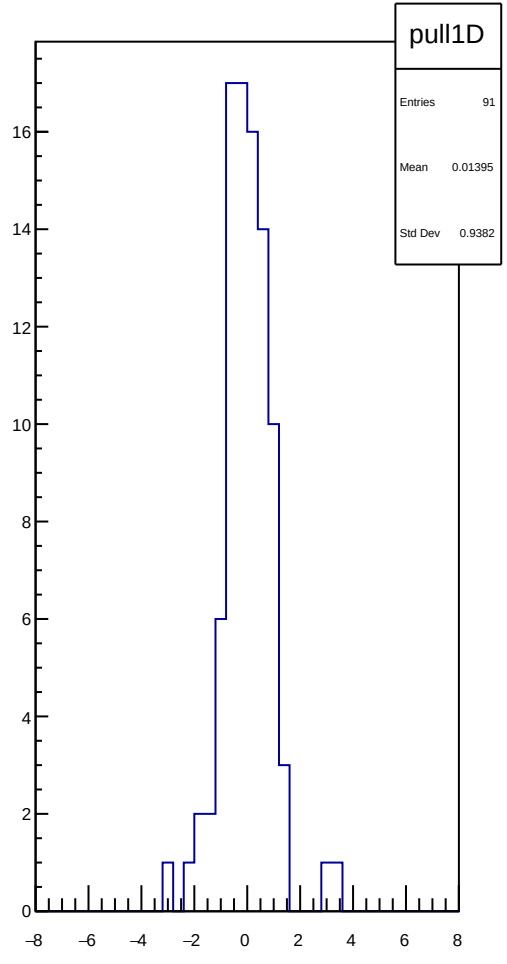

asym_bpm0l05WS_rms vs run
χ² / ndf 3.004e+04 / 90
p0 309.4 ± 0.2323
450
400
350
300
250

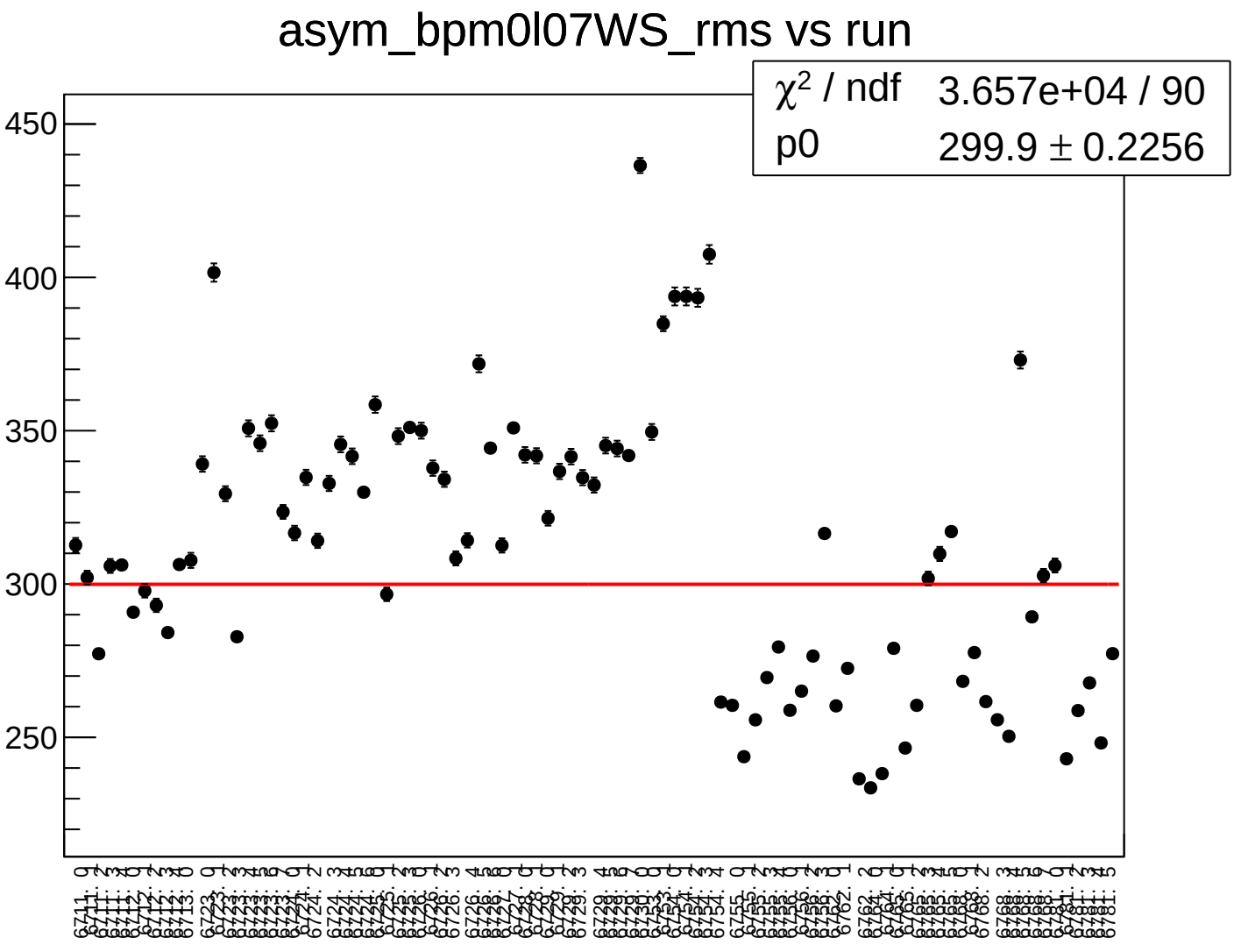

asym_bpm0l06WS_mean vs run
χ² / ndf 68.78 / 90
p0 −191.7 ± 319.1
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −437.9
Std Dev 0
3
2
1
0
−1
−2

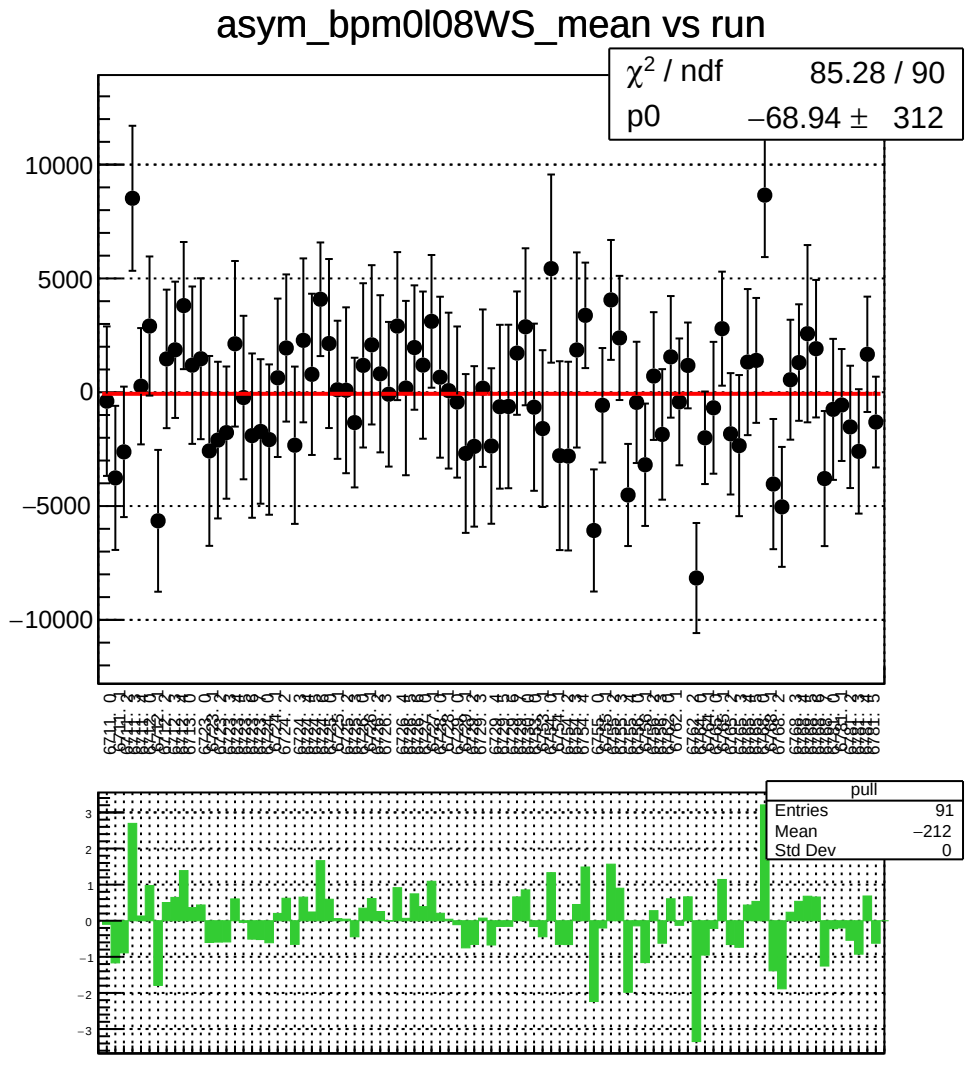

pull1D
Entries 91
Mean 0.00309
Std Dev 0.8694
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

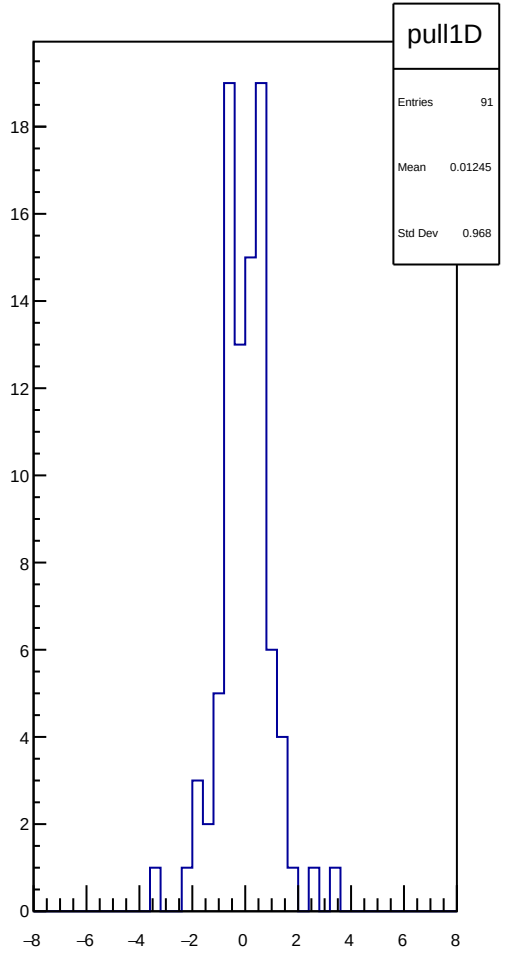

asym_bpm0l06WS_rms vs run
χ^2 / ndf 3.717e+04 / 90
p0 300 ± 0.2257
450
400
350
300
250

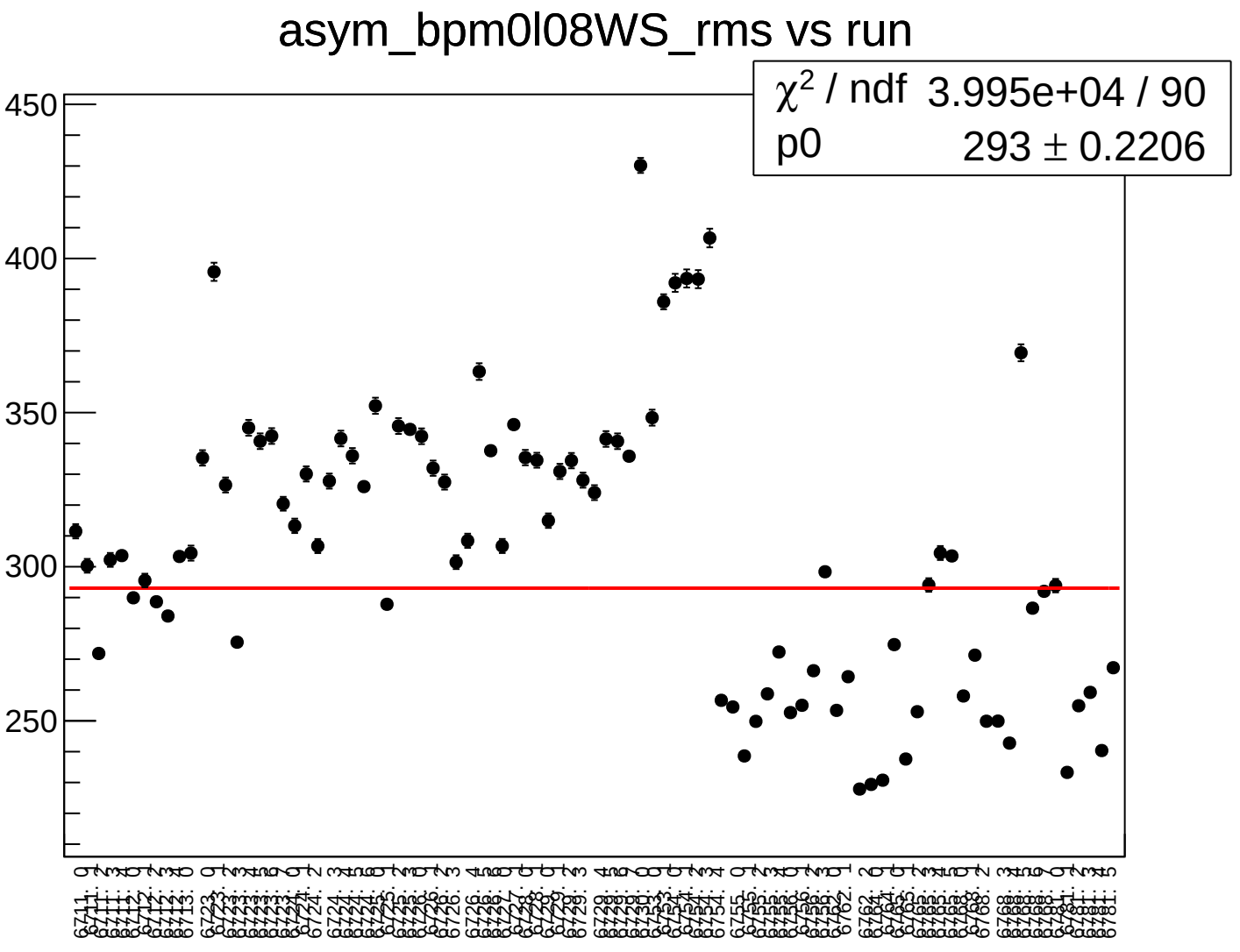

asym_bpm0l07WS_mean vs run
χ² / ndf 80.12 / 90
p0 −158.8 ± 319
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −271.4
Std Dev 0
3
2
1
0
−1
−2
−3

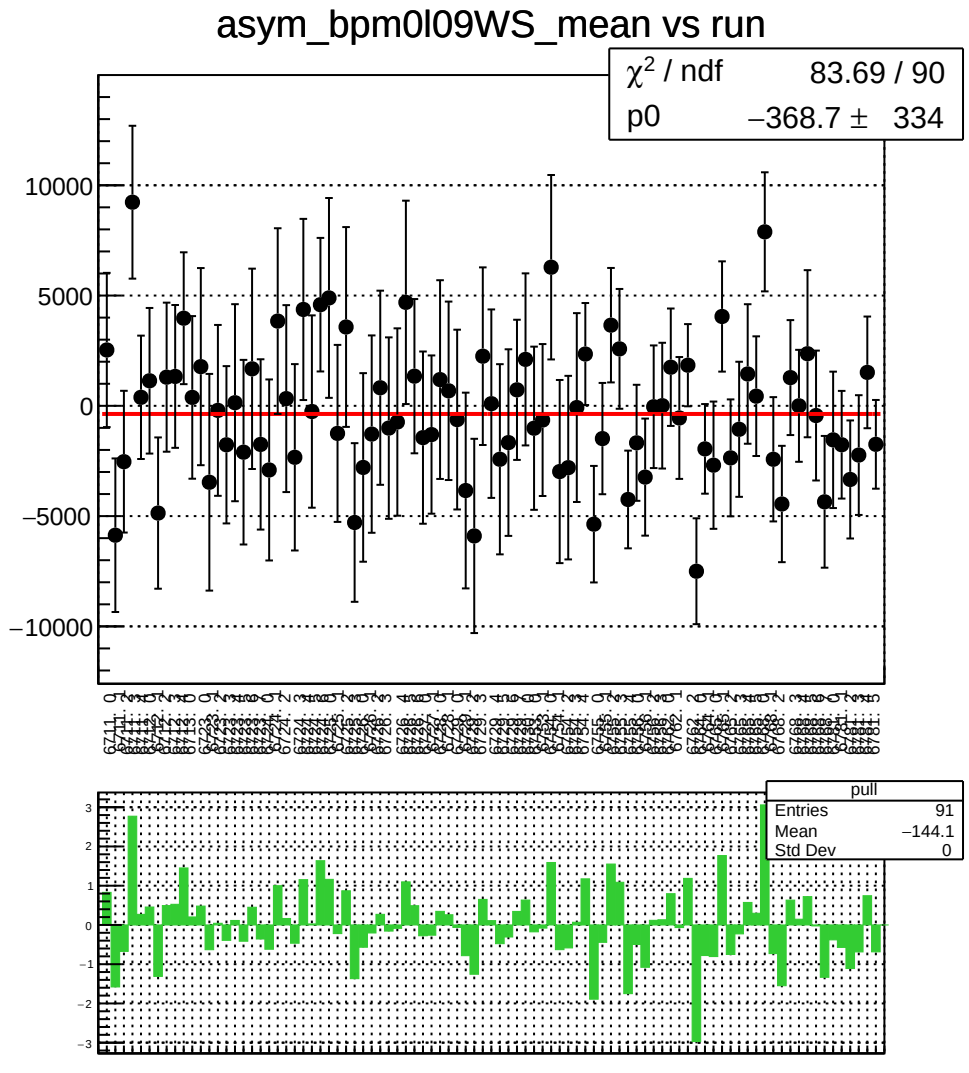

pull1D
Entries 91
Mean 0.01395
Std Dev 0.9382
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

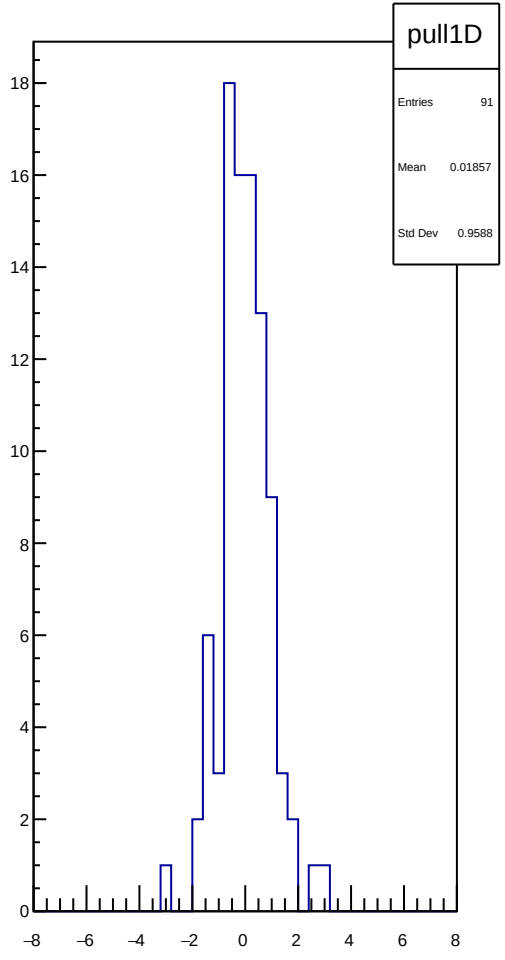

asym_bpm0l07WS_rms vs run
χ^2 / ndf 3.657e+04 / 90
p0 299.9 ± 0.2256
450
400
350
300
250

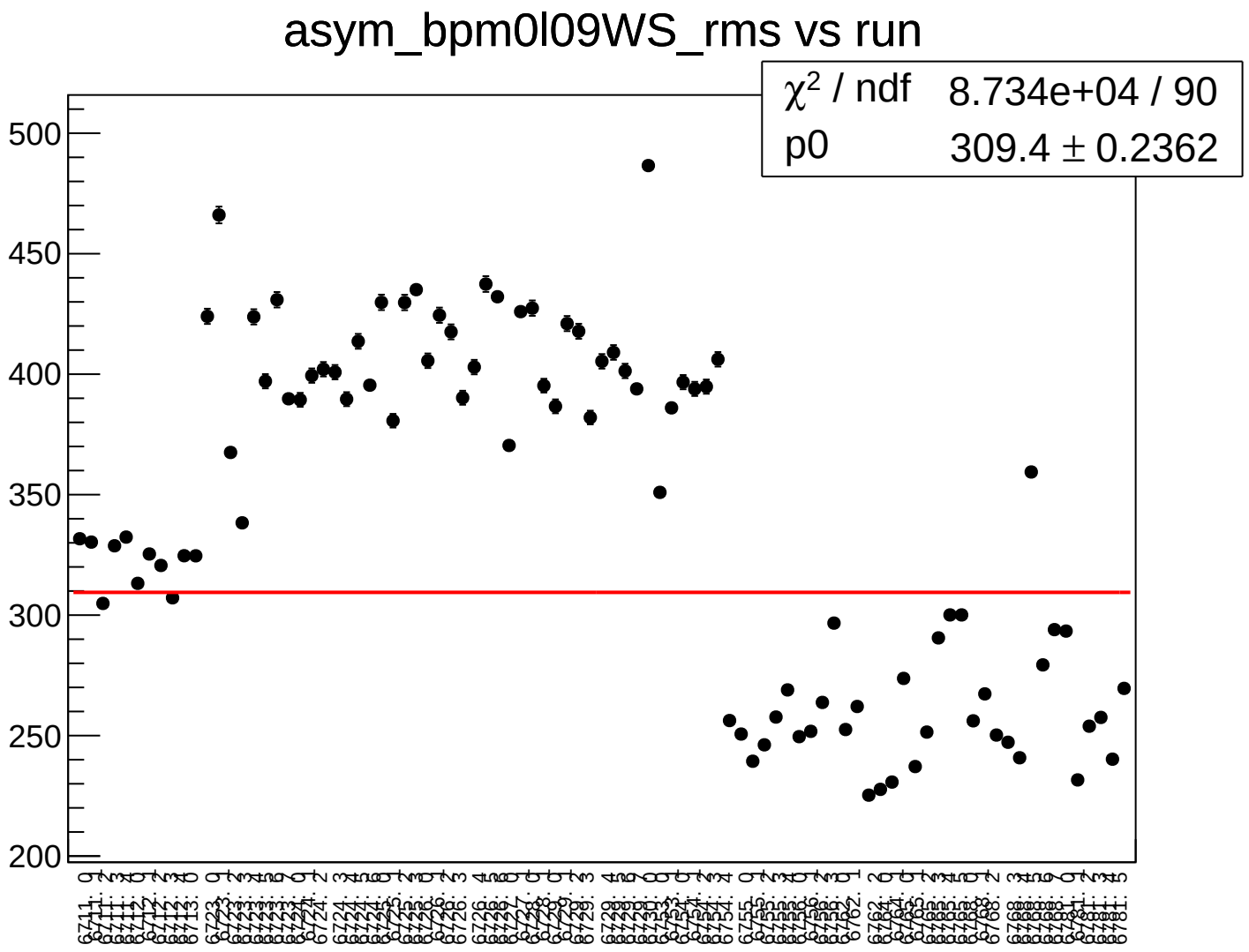

asym_bpm0l08WS_mean vs run
χ² / ndf 85.28 / 90
p0 −68.94 ± 312
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −212
Std Dev 0
3
2
1
0
−1
−2
−3

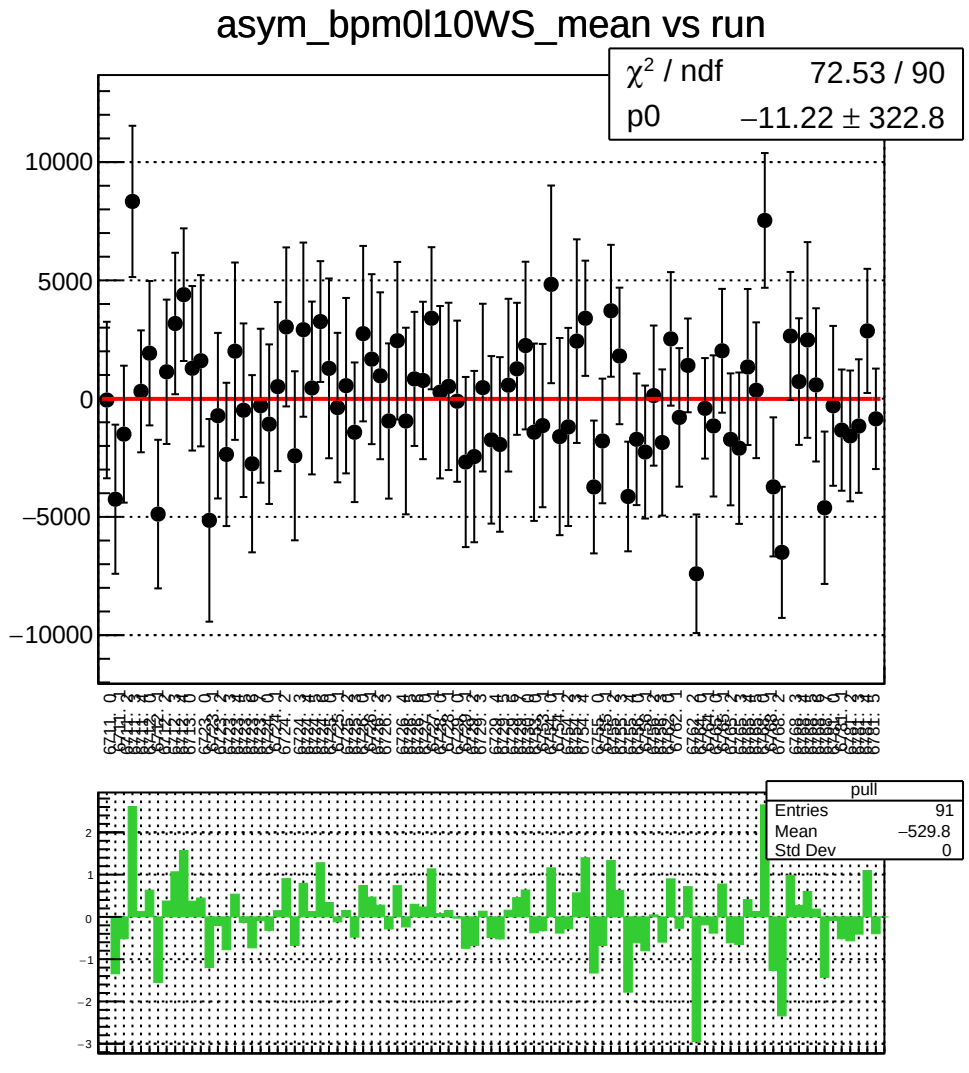

pull1D
Entries 91
Mean 0.01245
Std Dev 0.968
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

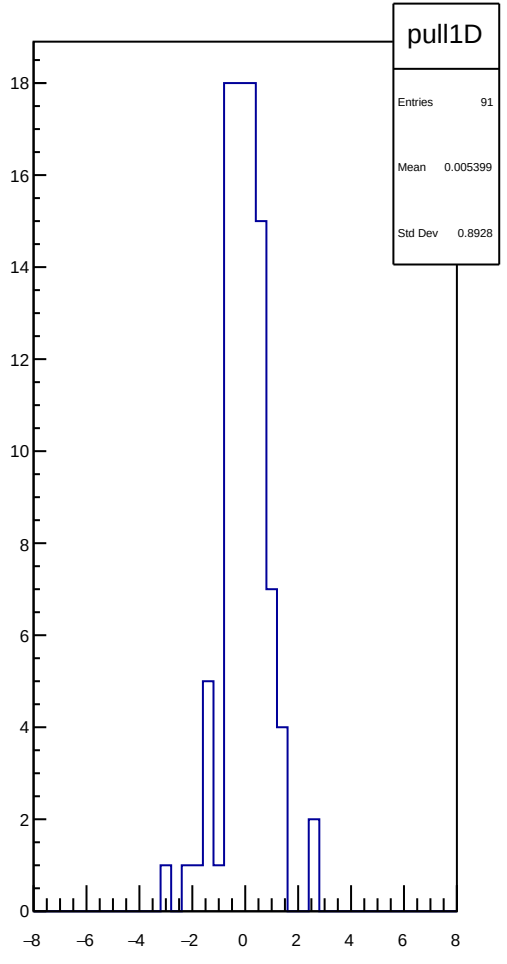

asym_bpm0l08WS_rms vs run
χ² / ndf 3.995e+04 / 90
p0 293 ± 0.2206
450
400
350
300
250

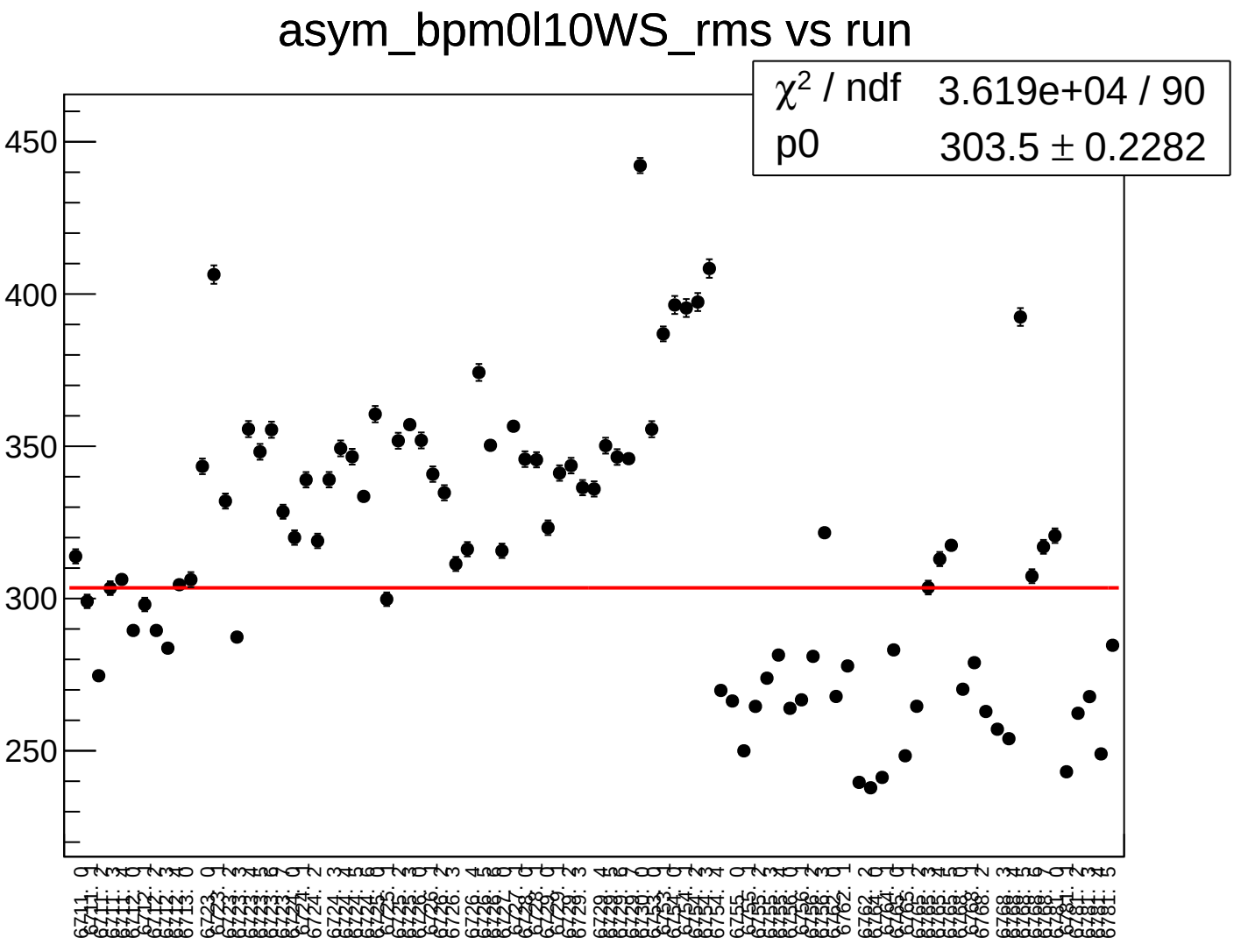

asym_bpm0l09WS_mean vs run
χ² / ndf 83.69 / 90
p0 −368.7 ± 334
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −144.1
Std Dev 0
3
2
1
0
−1
−2
−3

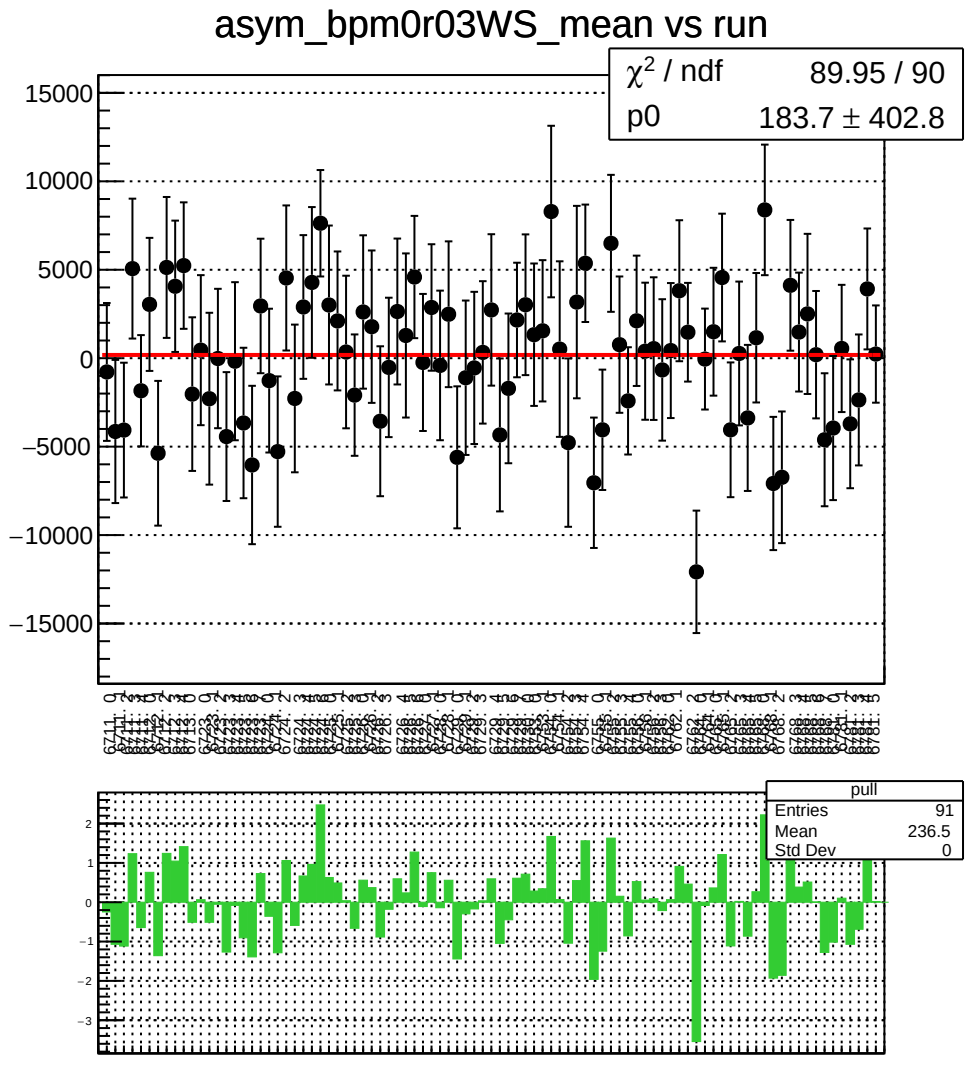

pull1D
Entries 91
Mean 0.01857
Std Dev 0.9588
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

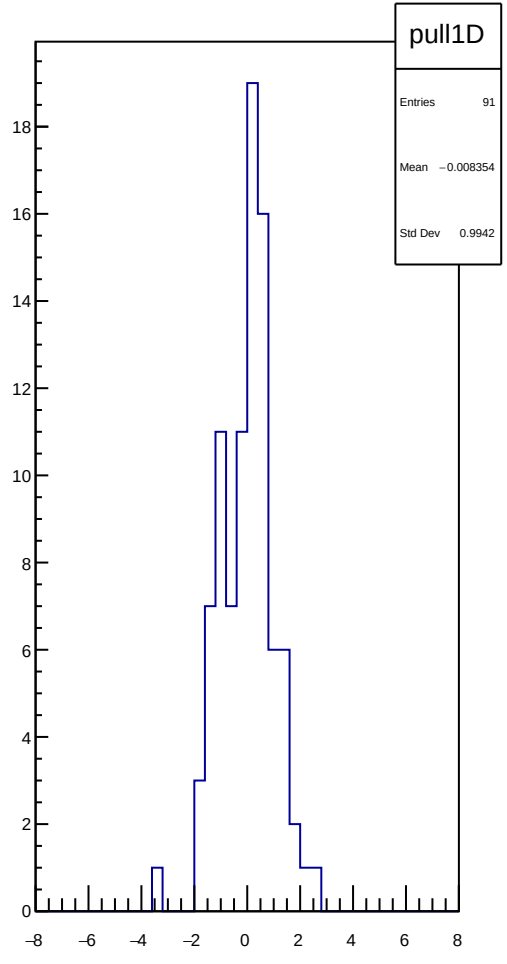

asym_bpm0l09WS_rms vs run
χ² / ndf 8.734e+04 / 90
p0 309.4 ± 0.2362
500
450
400
350
300
250
200

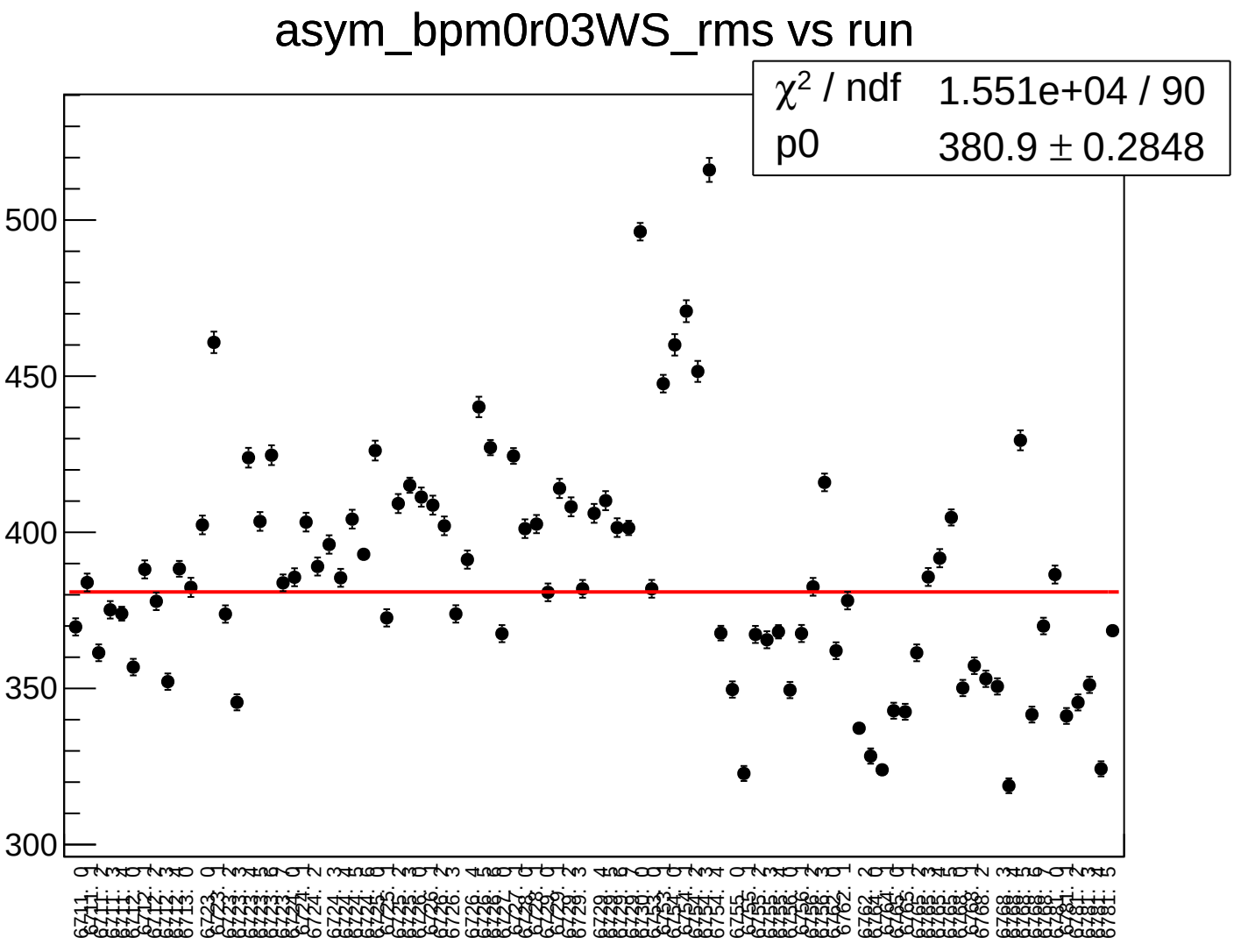

asym_bpm0l10WS_mean vs run
χ² / ndf 72.53 / 90
p0 −11.22 ± 322.8
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −529.8
Std Dev 0
2
1
0
−1
−2
−3

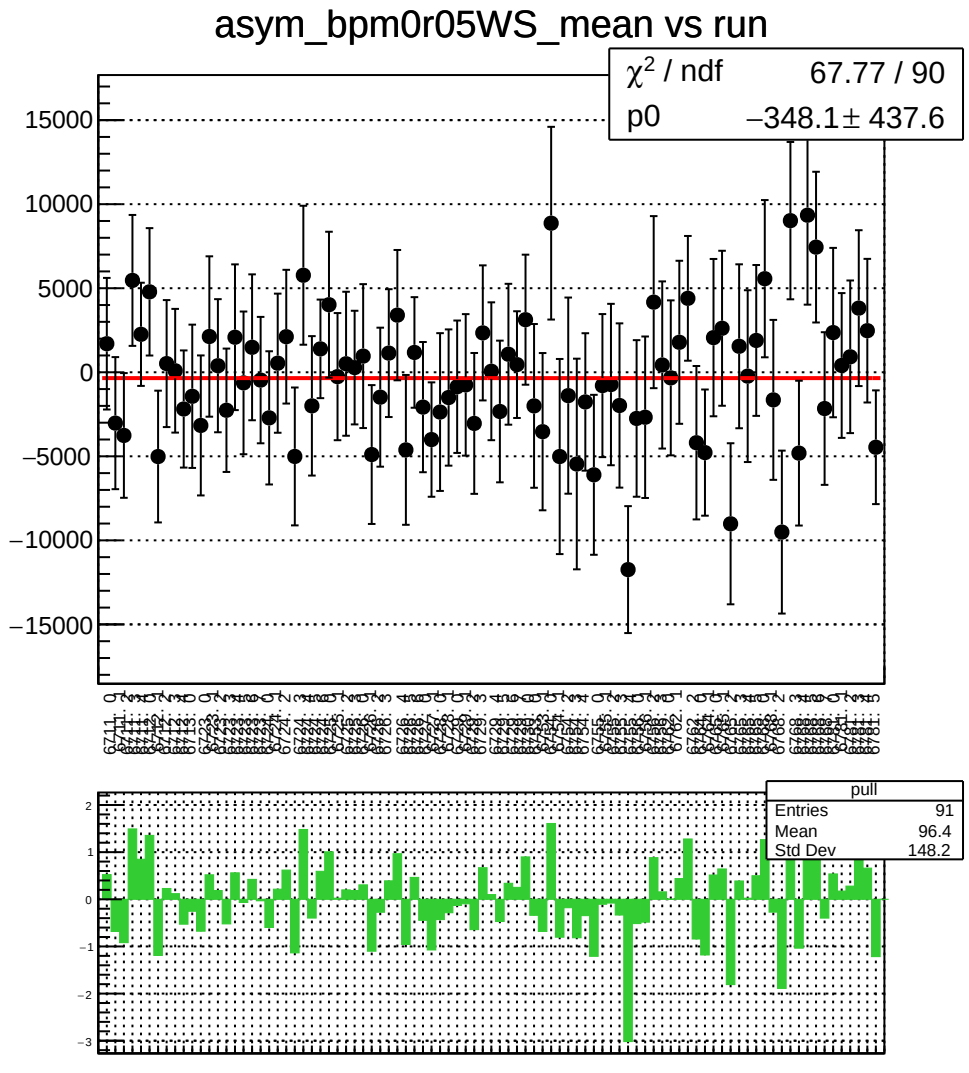

pull1D
Entries 91
Mean 0.005399
Std Dev 0.8928
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

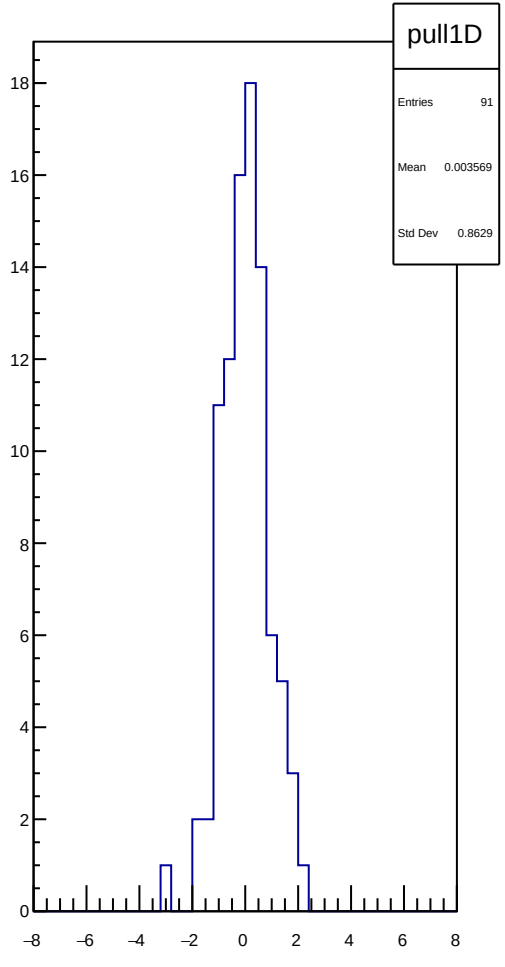

asym_bpm0l10WS_rms vs run
χ^2 / ndf 3.619e+04 / 90
p0 303.5 ± 0.2282
450
400
350
300
250

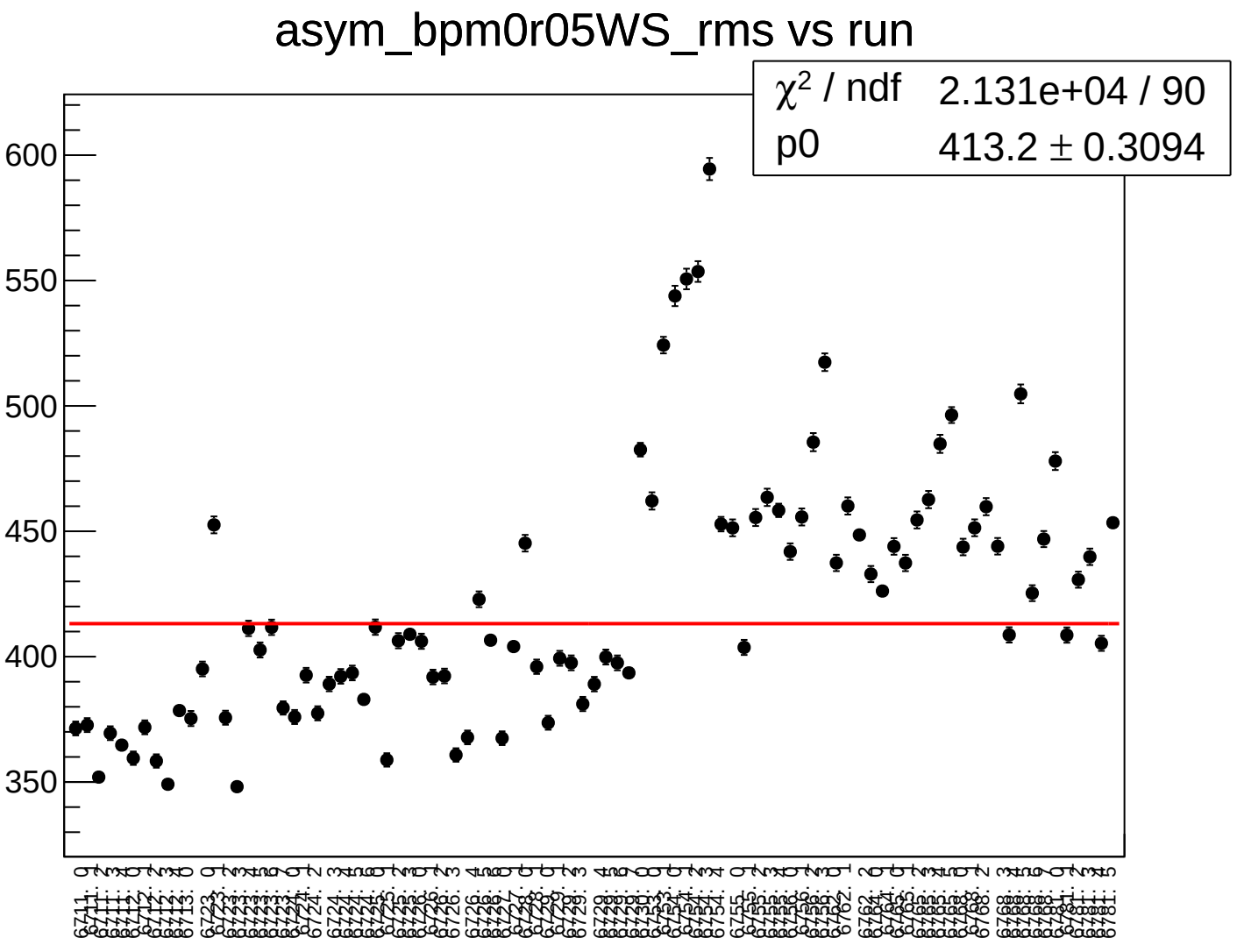

asym_bpm0r03WS_mean vs run
χ² / ndf 89.95 / 90
p0 183.7 ± 402.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 236.5
Std Dev 0
2
1
0
−1
−2
−3

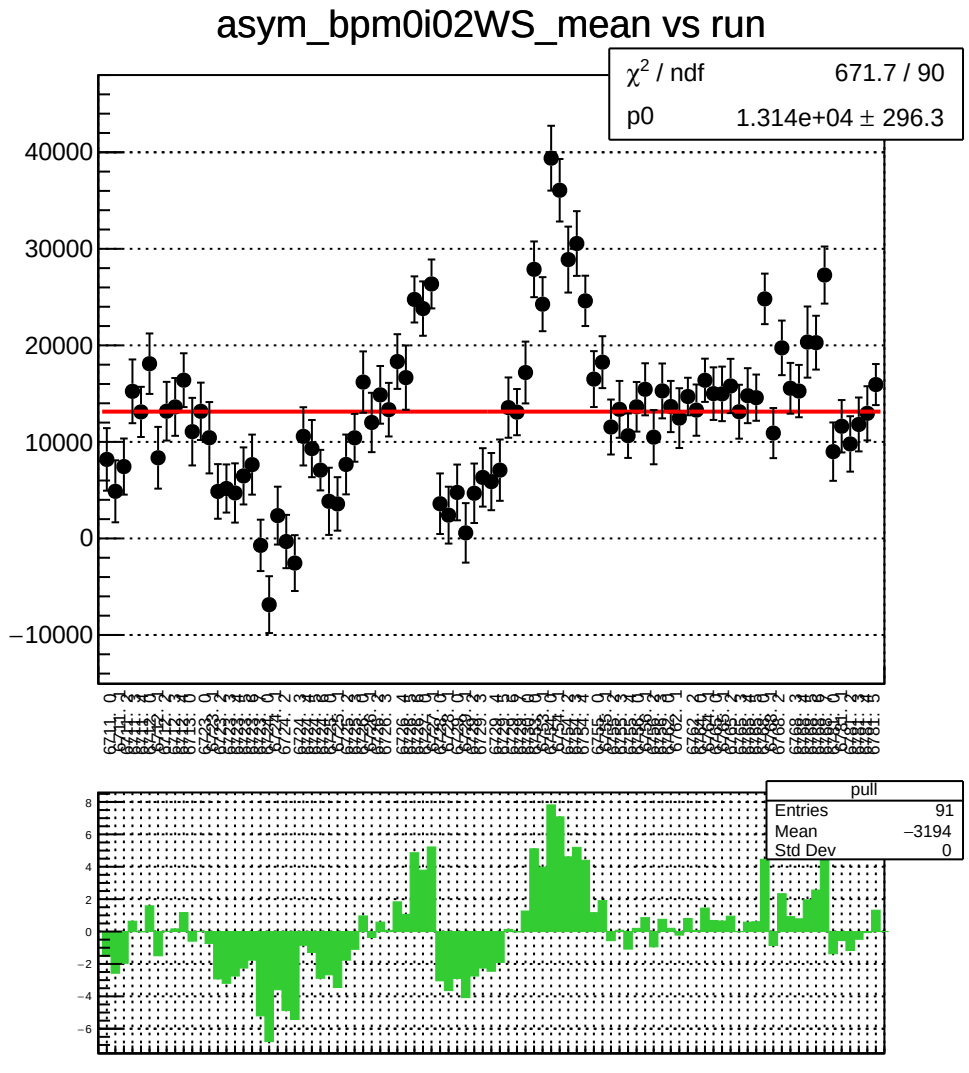

pull1D
Entries 91
Mean −0.008354
Std Dev 0.9942
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

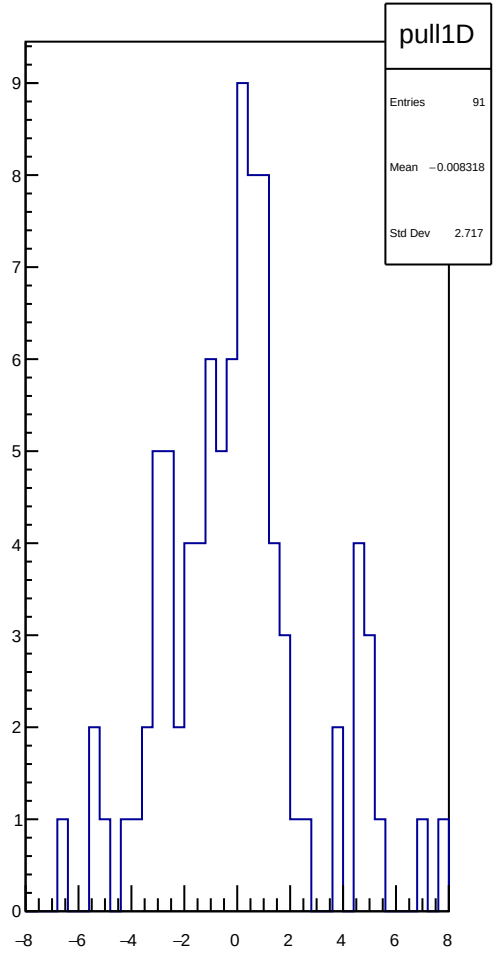

asym_bpm0r03WS_rms vs run
χ² / ndf 1.551e+04 / 90
p0 380.9 ± 0.2848
500
450
400
350
300

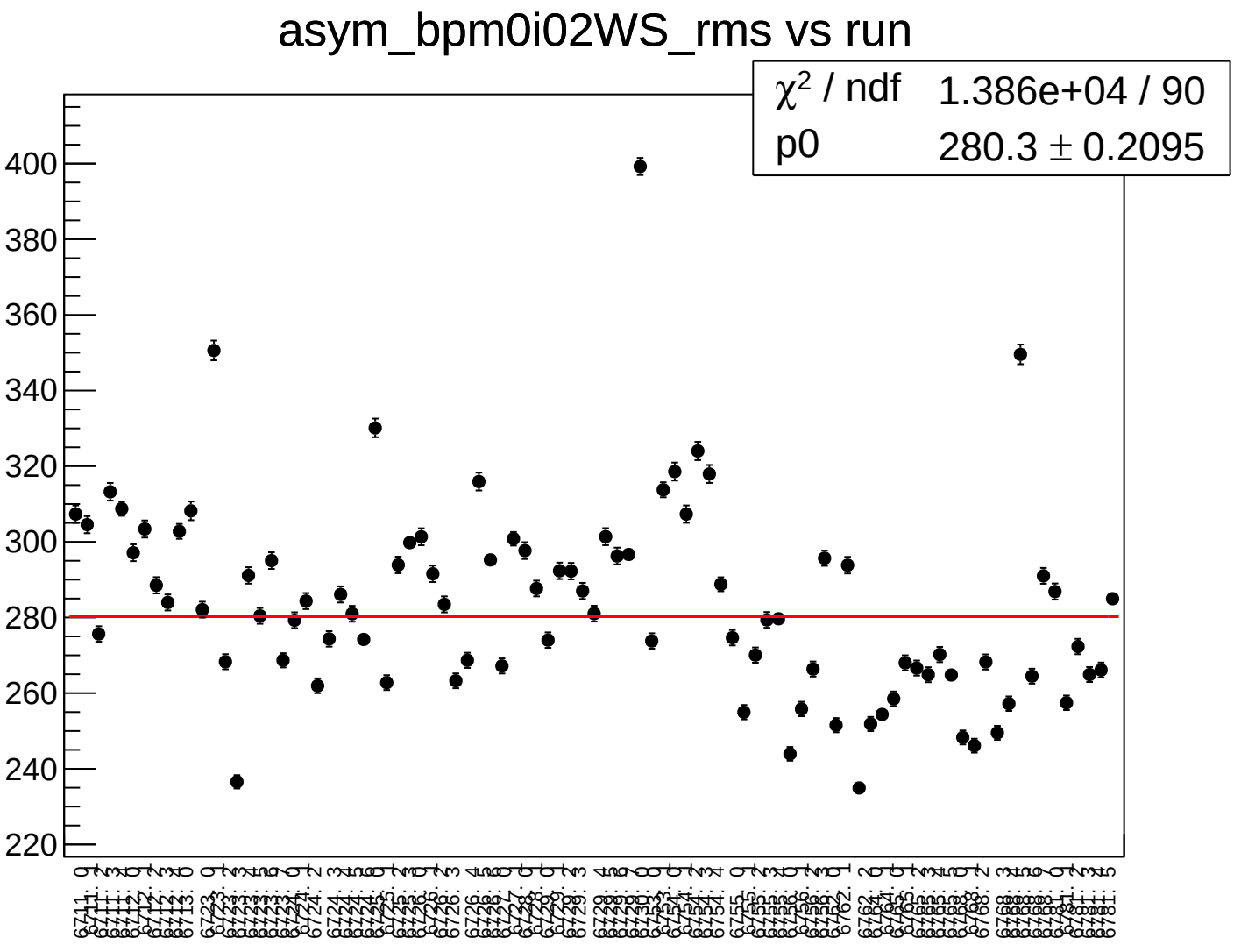

asym_bpm0r05WS_mean vs run
χ² / ndf 67.77 / 90
p0 −348.1± 437.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 96.4
Std Dev 148.2
2
1
0
−1
−2
−3

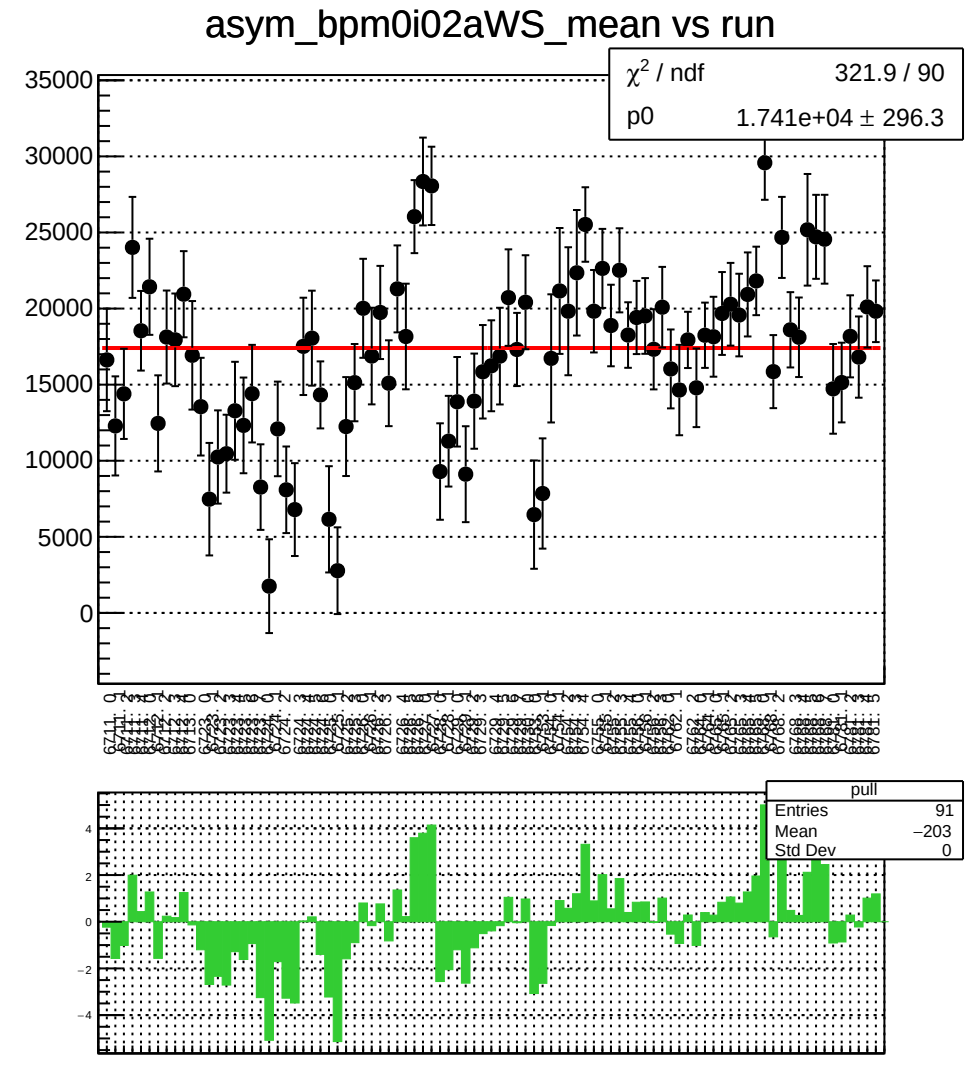

pull1D
Entries 91
Mean 0.003569
Std Dev 0.8629
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

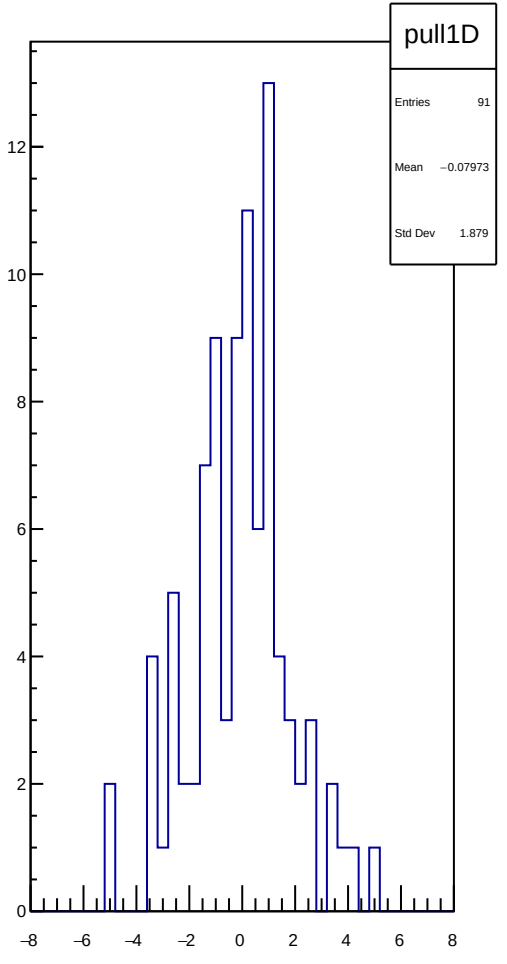

asym_bpm0r05WS_rms vs run
χ² / ndf 2.131e+04 / 90
p0 413.2 ± 0.3094
600
550
500
450
400
350

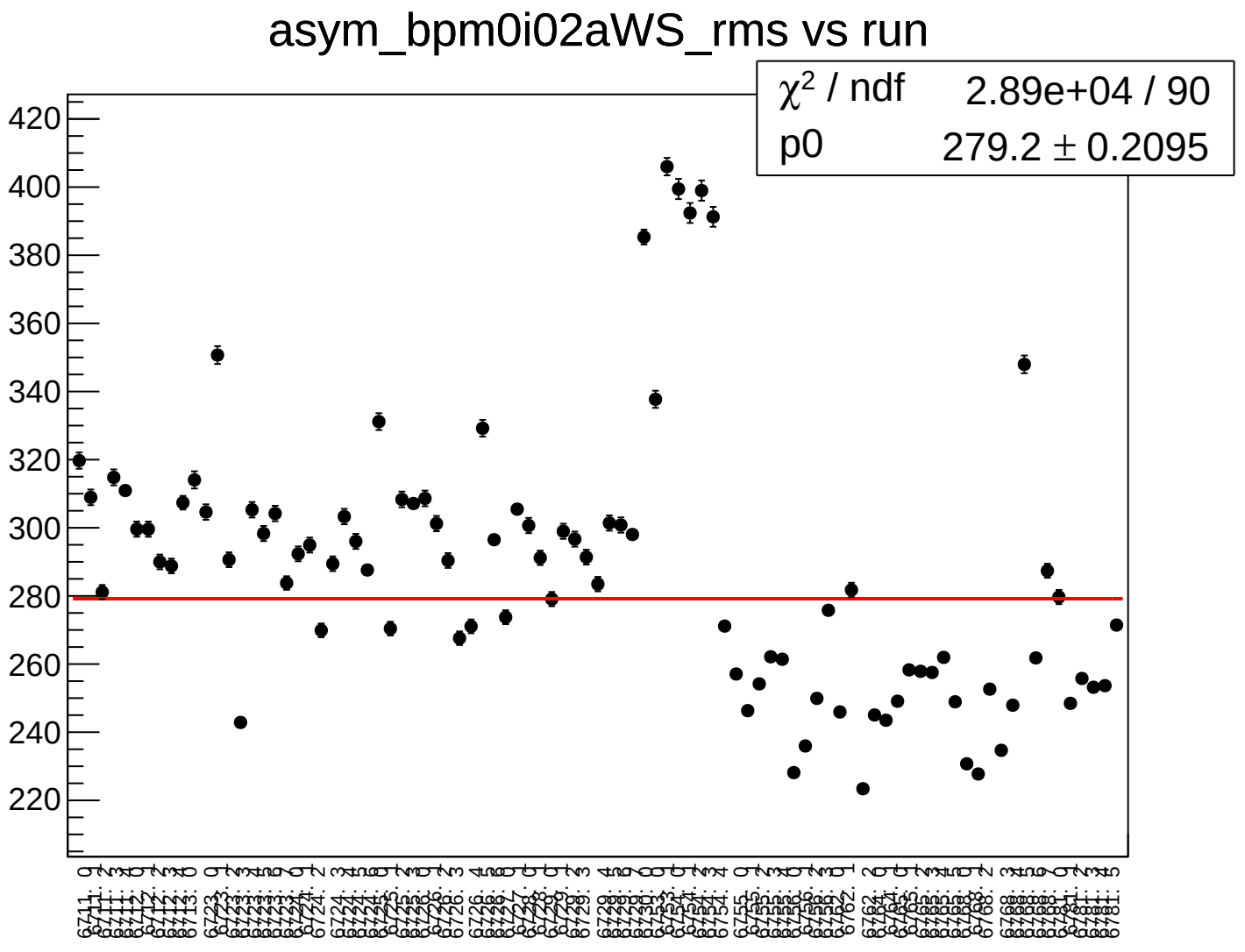

asym_bpm0i02WS_mean vs run
χ² / ndf 671.7 / 90
p0 1.314e+04 ± 296.3
40000
30000
20000
10000
0
−10000
pull
Entries 91
Mean −3194
Std Dev 0
8
6
4
2
0
−2
−4
−6

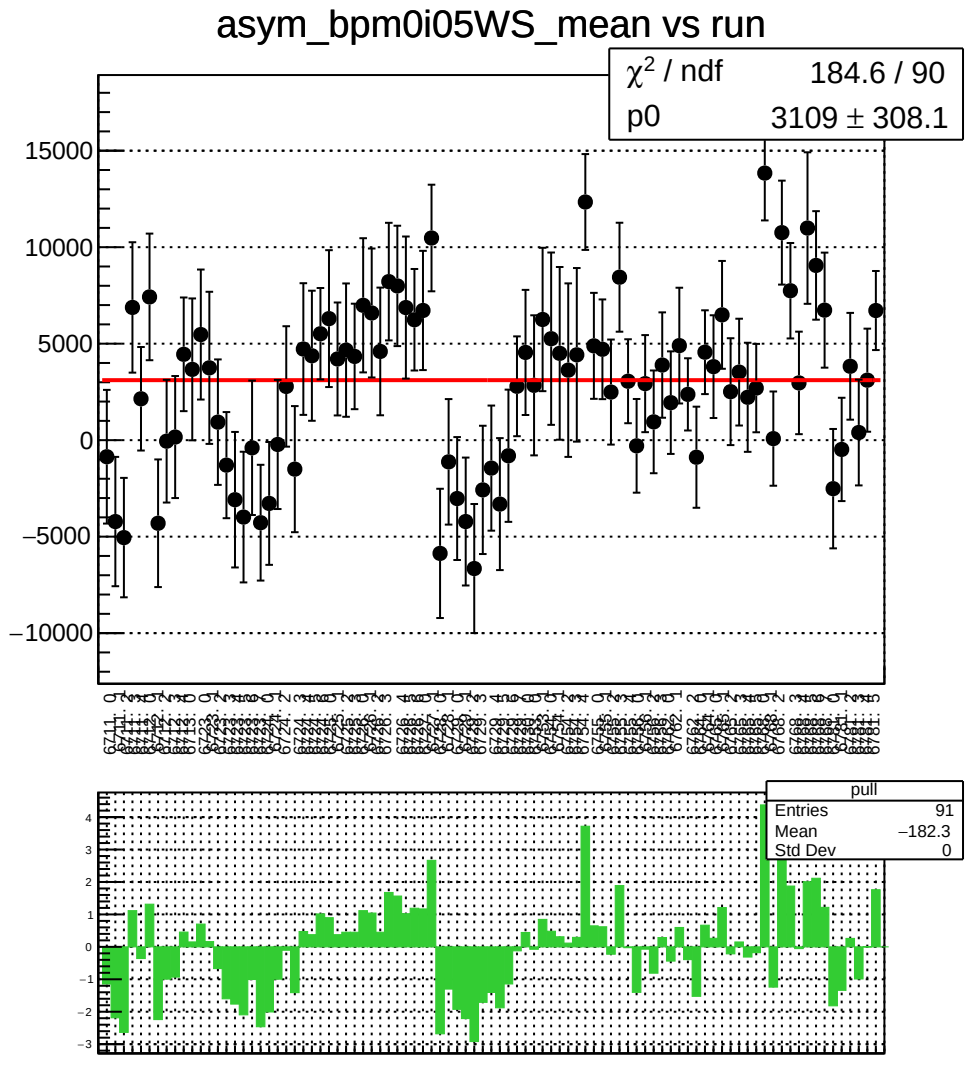

pull1D
Entries 91
Mean −0.008318
Std Dev 2.717
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

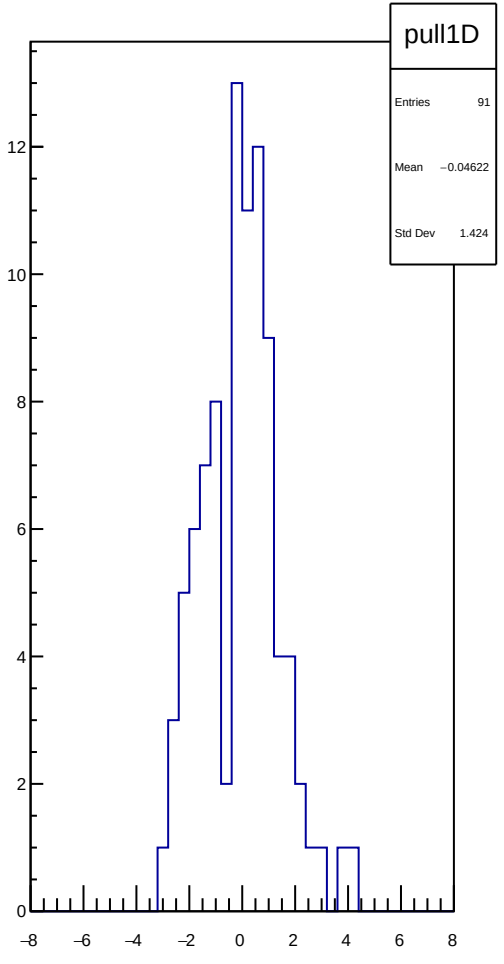

asym_bpm0i02WS_rms vs run
χ^2 / ndf 1.386e+04 / 90
p0 280.3 ± 0.2095
400
380
360
340
320
300
280
260
240
220

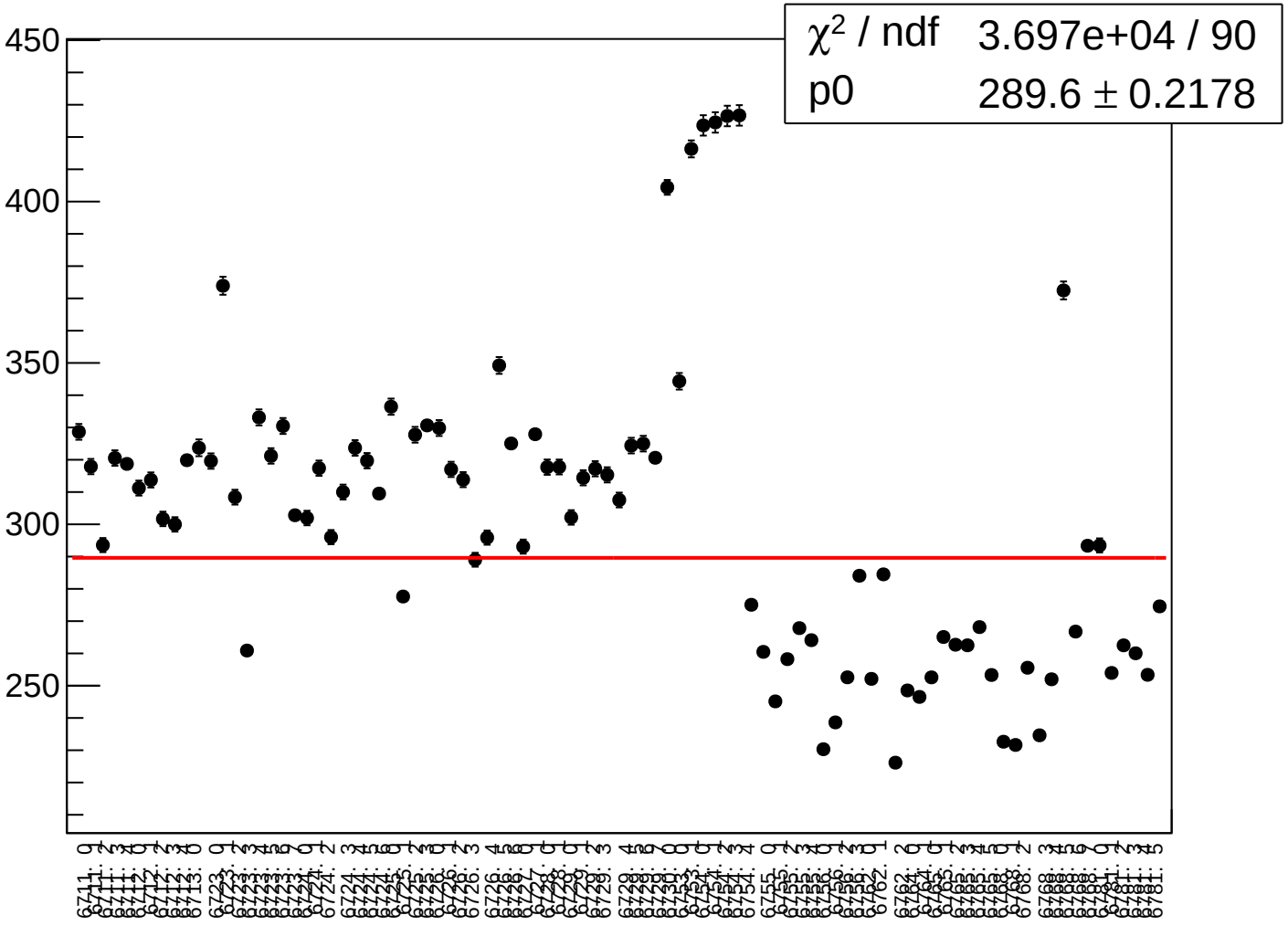

asym_bpm0i02aWS_mean vs run
χ² / ndf 321.9 / 90
p0 1.741e+04 ± 296.3
pull
Entries 91
Mean −203
Std Dev 0

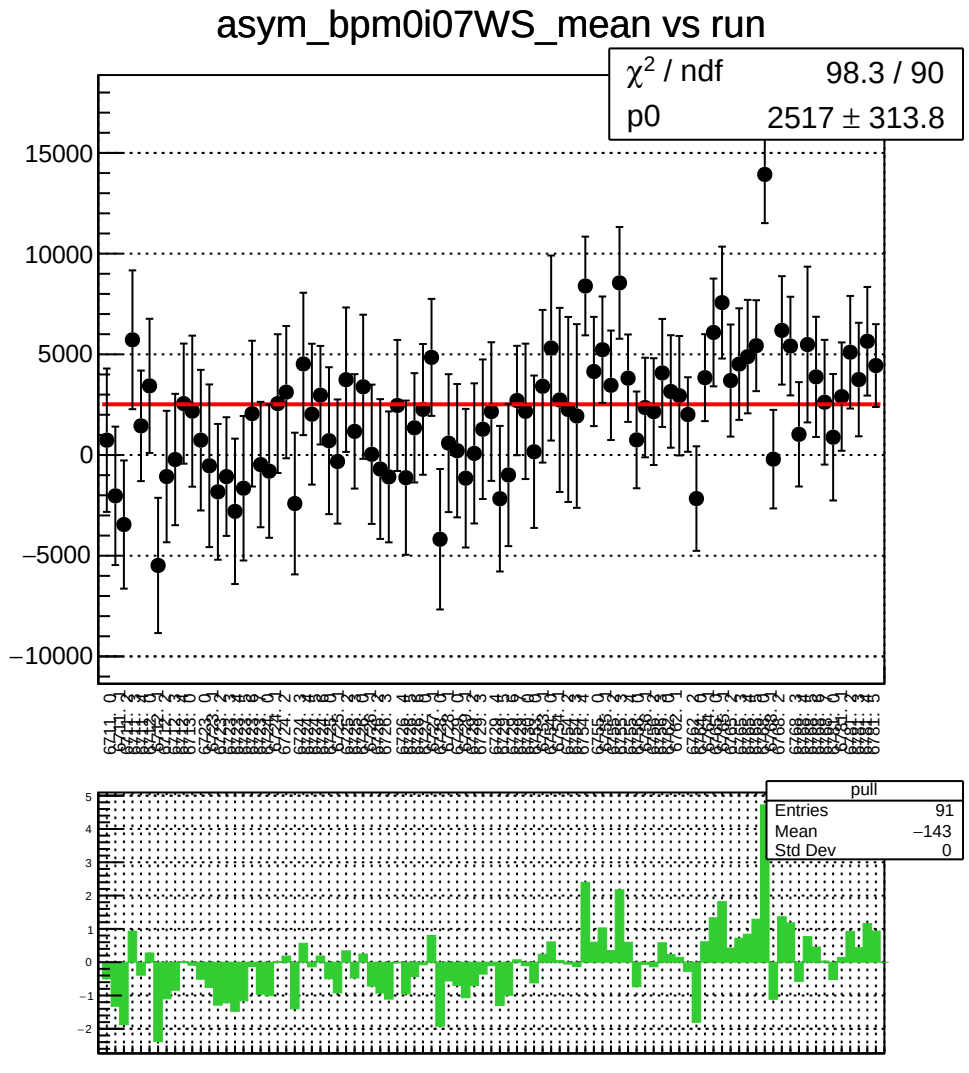

pull1D
Entries 91
Mean −0.07973
Std Dev 1.879

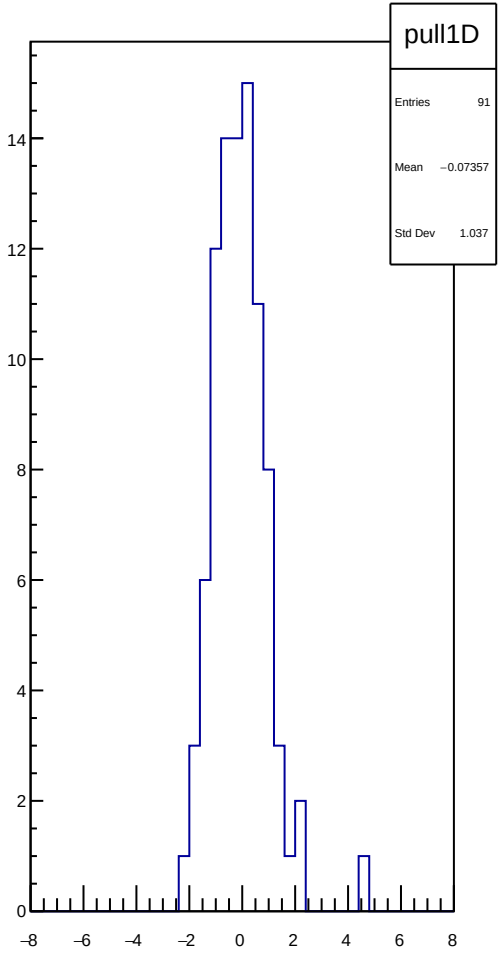

asym_bpm0i02aWS_rms vs run
χ^2 / ndf 2.89e+04 / 90
p0 279.2 ± 0.2095
420
400
380
360
340
320
300
280
260
240
220

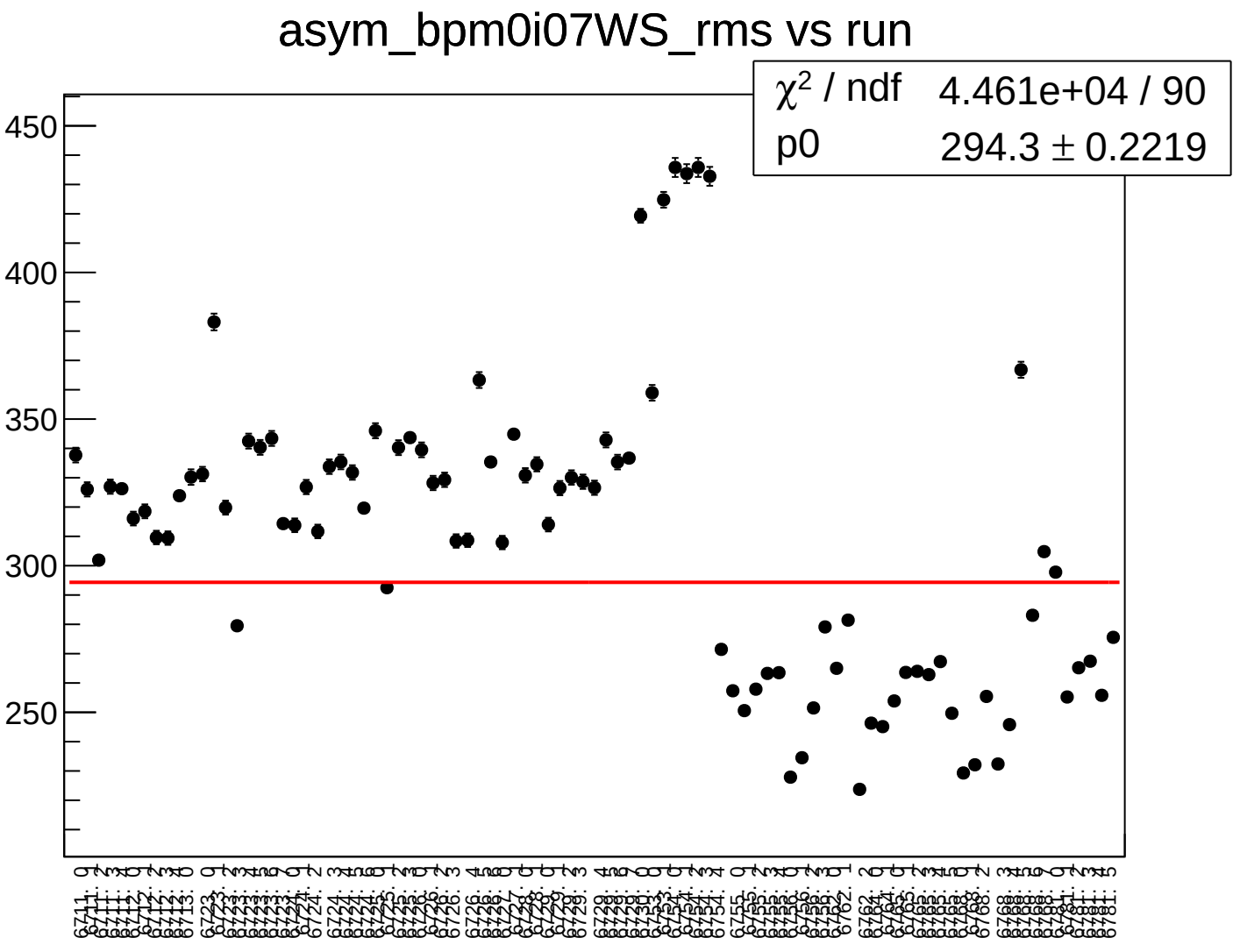

asym_bpm0i05WS_mean vs run
χ² / ndf 184.6 / 90
p0 3109 ± 308.1
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −182.3
Std Dev 0
4
3
2
1
0
−1
−2
−3

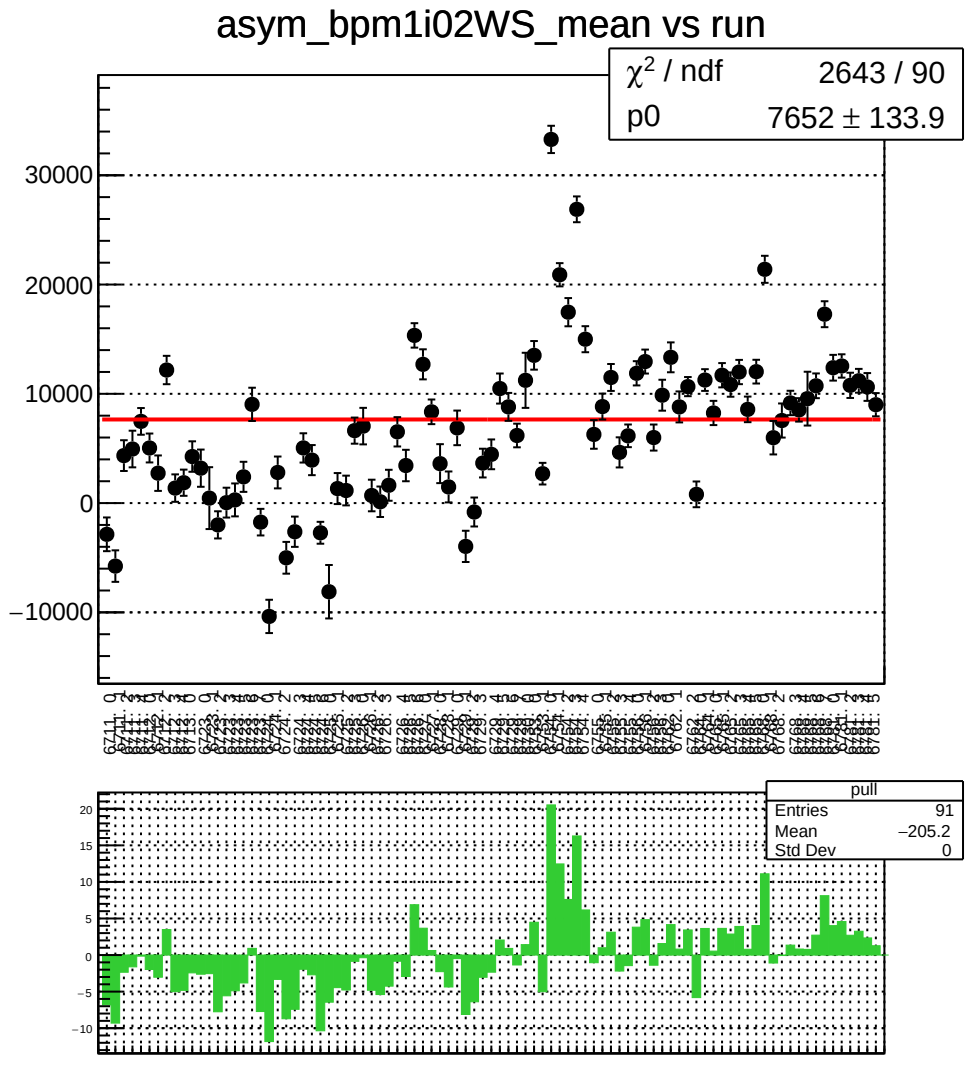

pull1D
Entries 91
Mean −0.04622
Std Dev 1.424
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

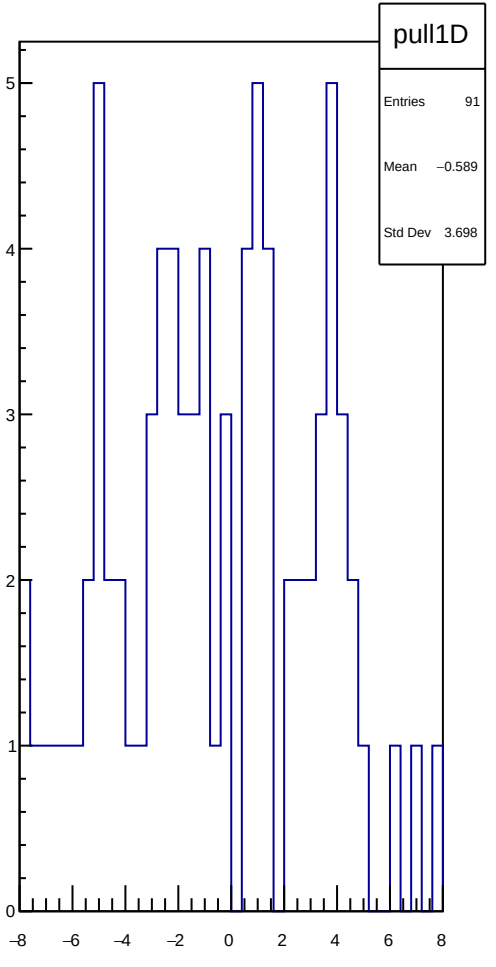

asym_bpm0i05WS_rms vs run
χ^2 / ndf 3.697e+04 / 90
p0 289.6 ± 0.2178
450
400
350
300
250

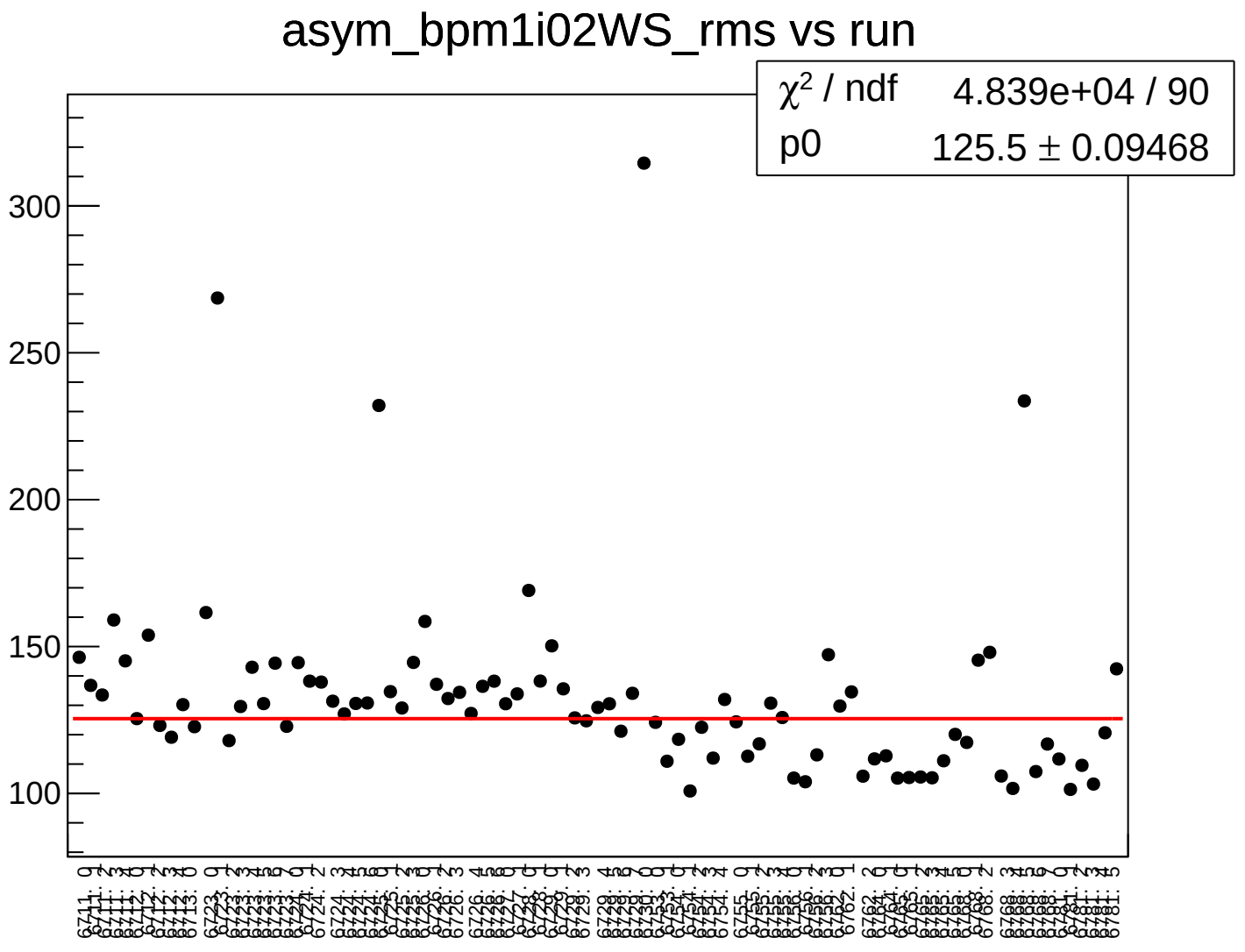

asym_bpm0i07WS_mean vs run
χ² / ndf 98.3 / 90
p0 2517 ± 313.8
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −143
Std Dev 0
5
4
3
2
1
0
−1
−2

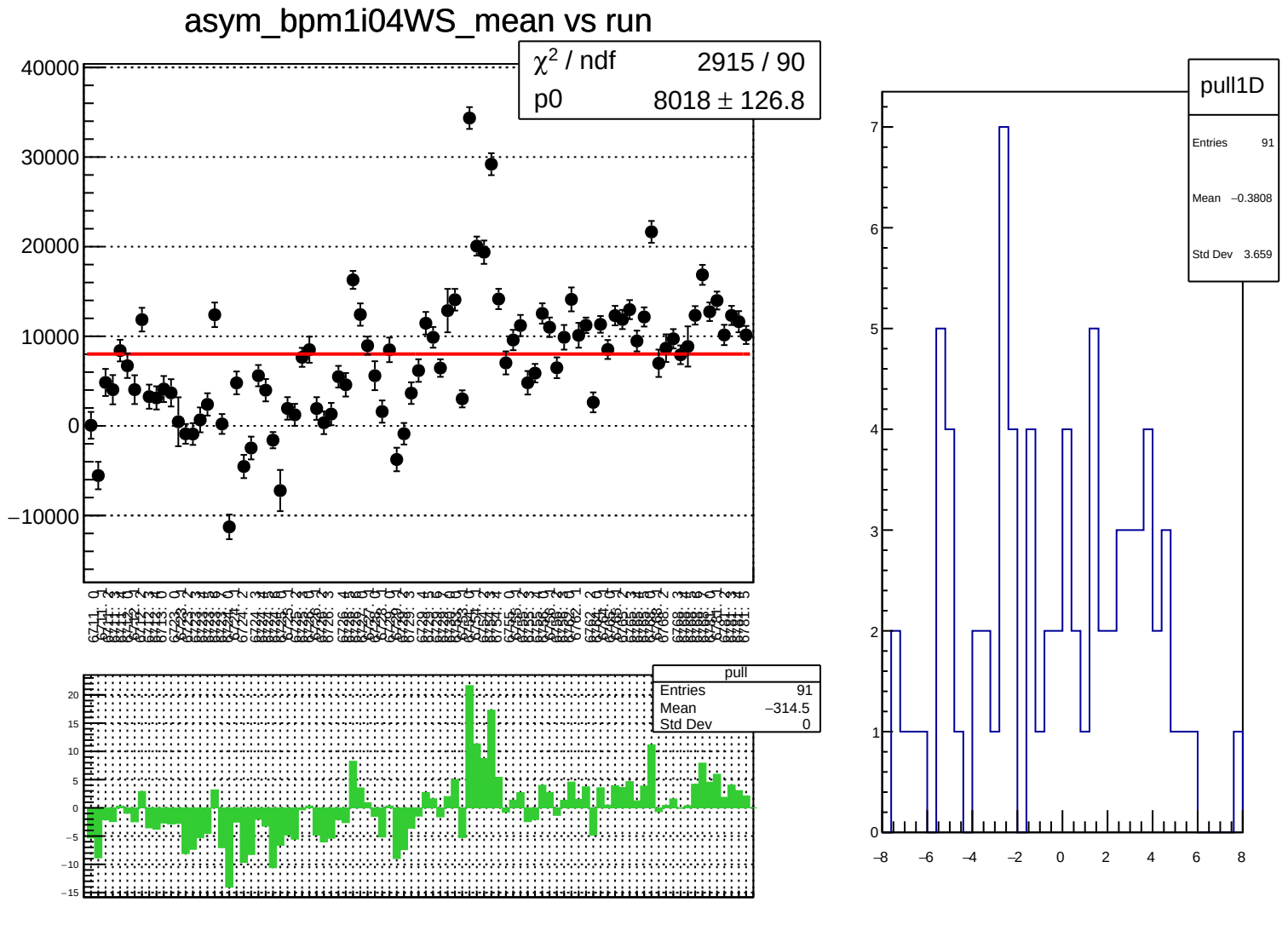

pull1D
Entries 91
Mean −0.07357
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

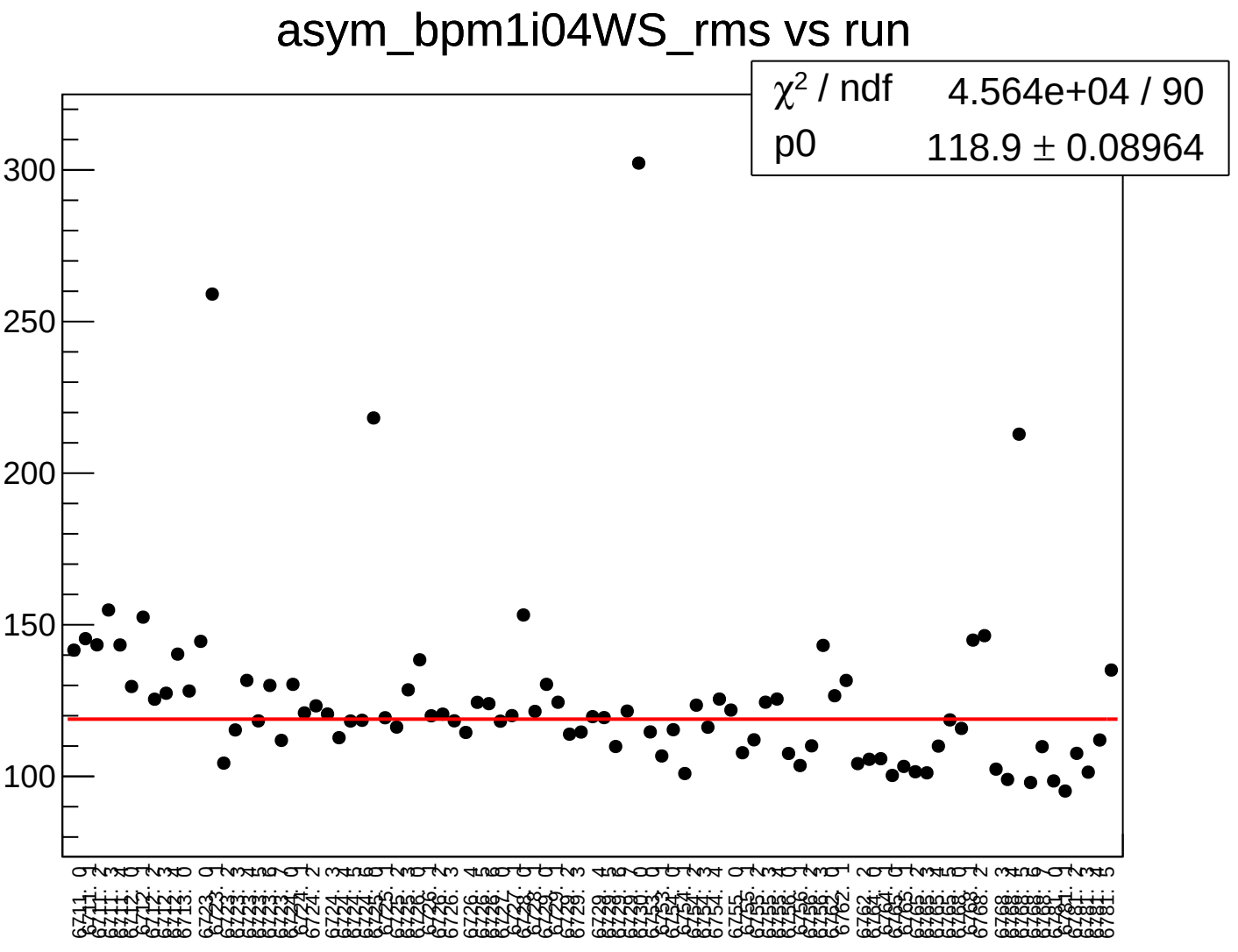

asym_bpm0i07WS_rms vs run
χ² / ndf 4.461e+04 / 90
p0 294.3 ± 0.2219
450
400
350
300
250

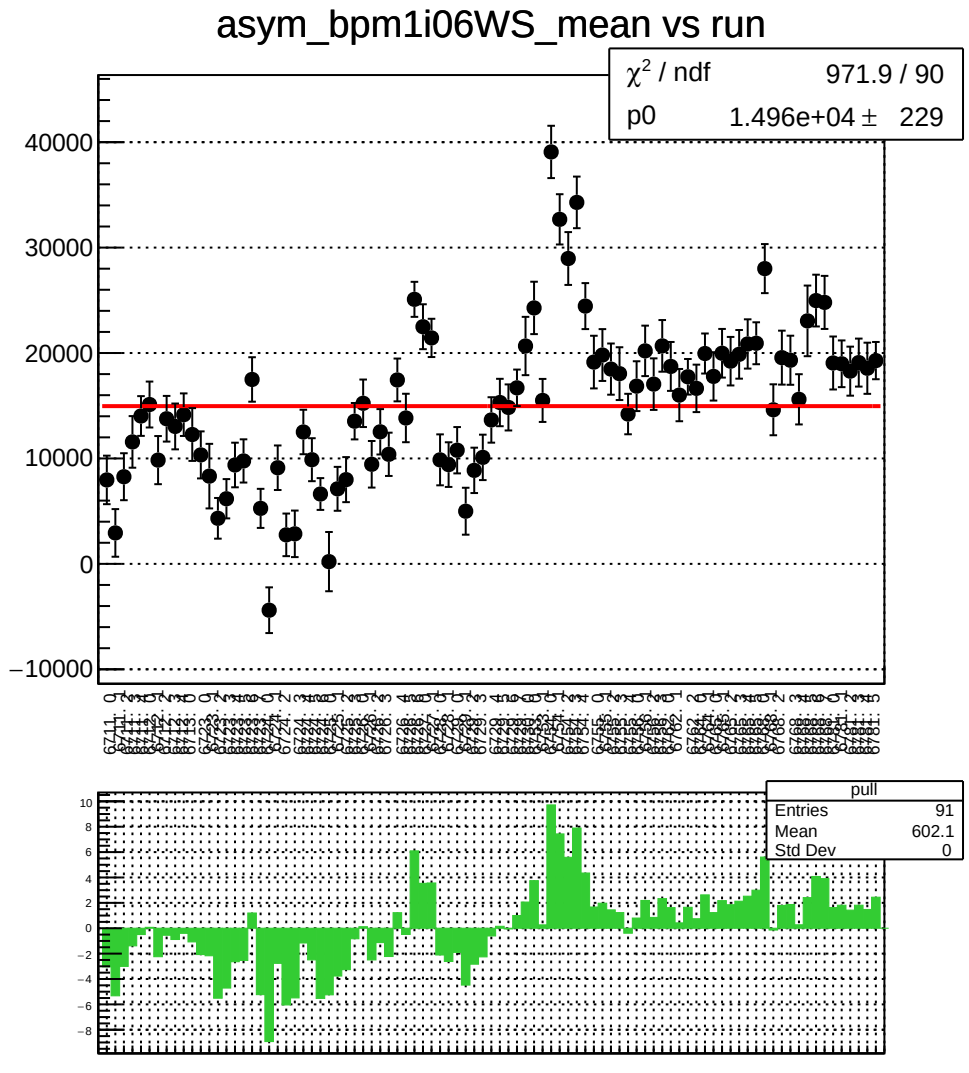

asym_bpm1i02WS_mean vs run
χ² / ndf 2643 / 90
p0 7652 ± 133.9
30000
20000
10000
0
−10000
pull
Entries 91
Mean −205.2
Std Dev 0
20
15
10
5
0
−5
−10

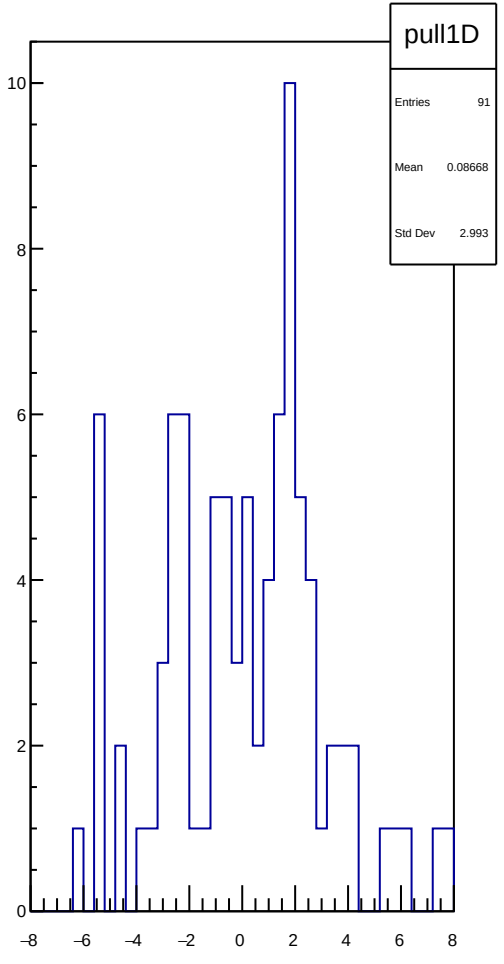

pull1D
Entries 91
Mean −0.589
Std Dev 3.698
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm1i02WS_rms vs run
χ² / ndf 4.839e+04 / 90
p0 125.5 ± 0.09468
300
250
200
150
100

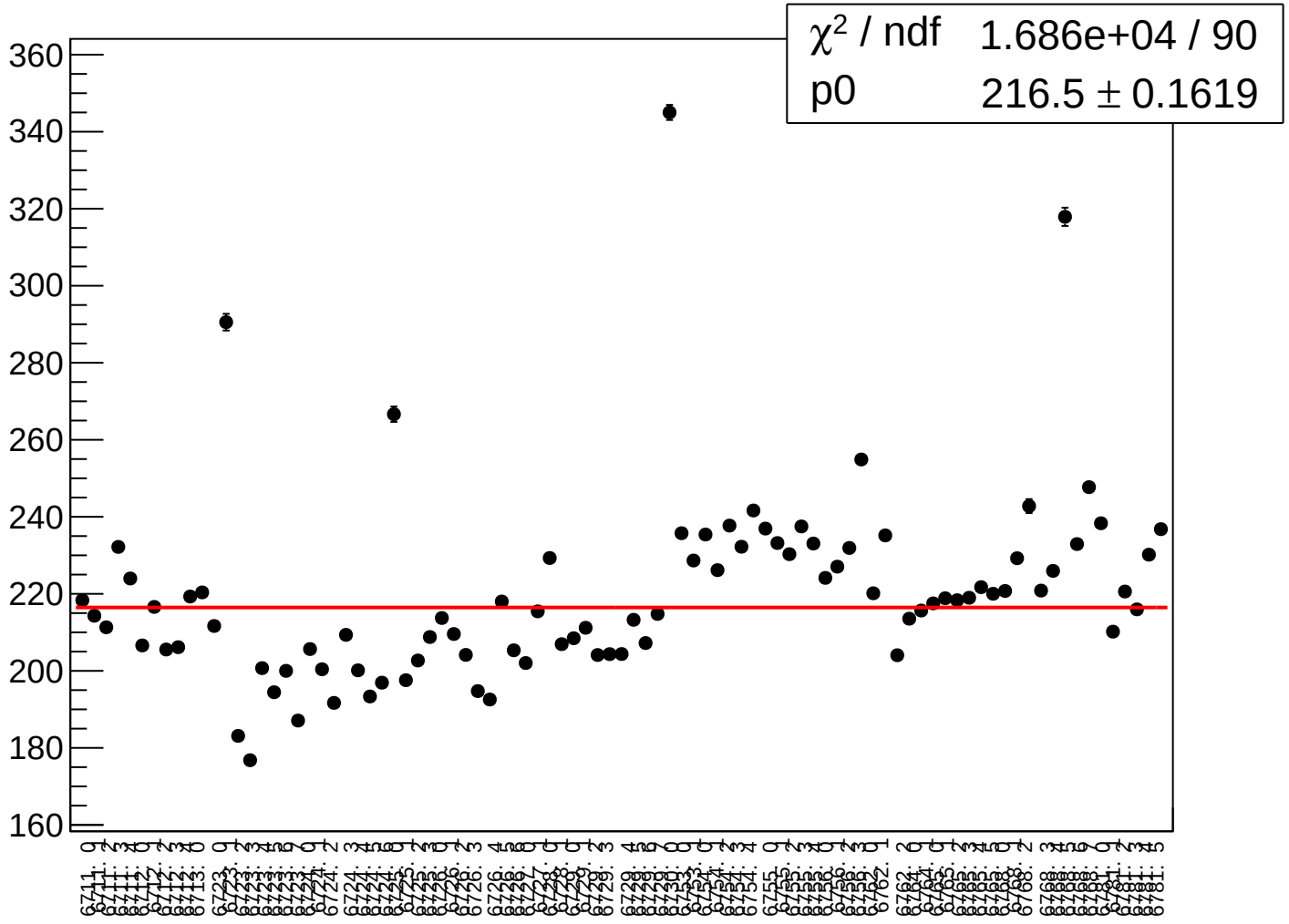

asym_bpm1i04WS_mean vs run
χ² / ndf 2915 / 90
p0 8018 ± 126.8
40000
30000
20000
10000
0
−10000
pull
Entries 91
Mean −314.5
Std Dev 0
20
15
10
5
0
−5
−10
−15
pull1D
Entries 91
Mean −0.3808
Std Dev 3.659
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

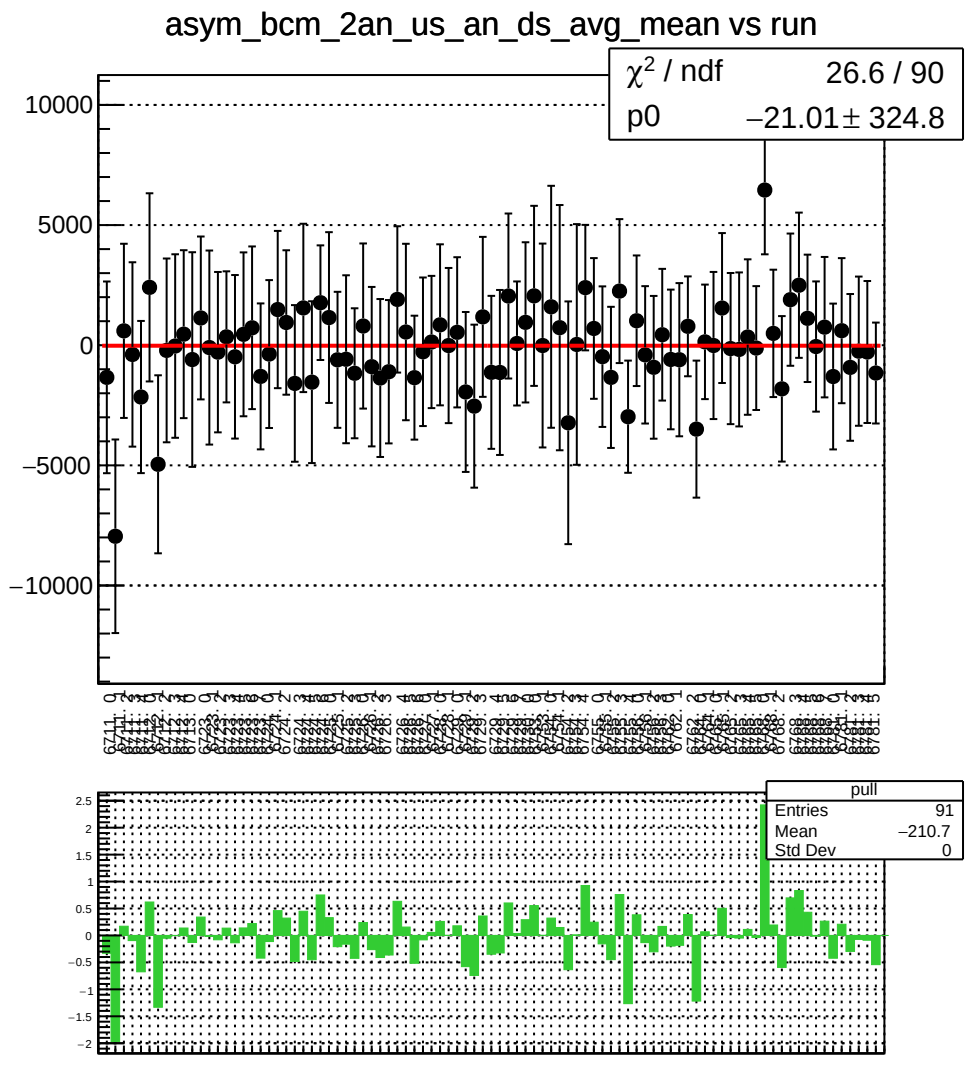

asym_bpm1i04WS_rms vs run
χ² / ndf 4.564e+04 / 90
p0 118.9 ± 0.08964
300
250
200
150
100

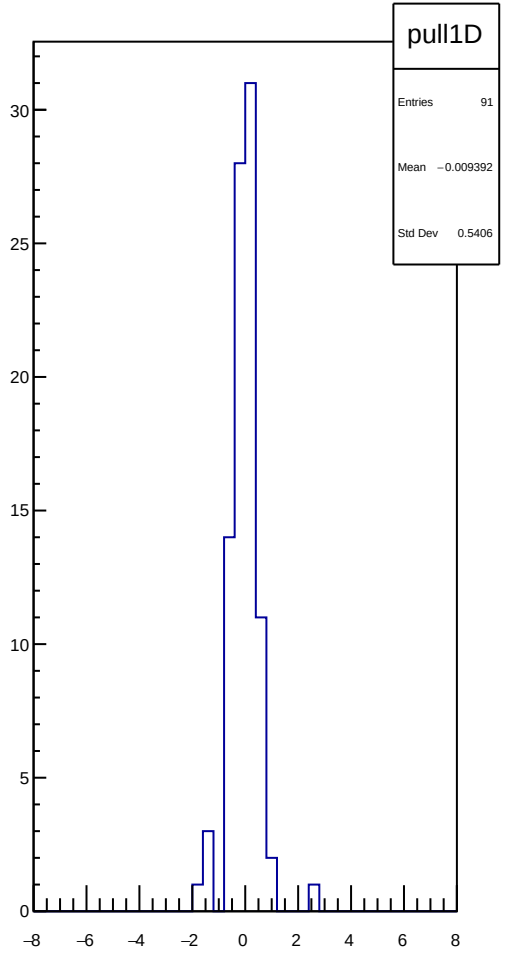

asym_bpm1i06WS_mean vs run
χ² / ndf 971.9 / 90
p0 1.496e+04 ± 229
pull
Entries 91
Mean 602.1
Std Dev 0

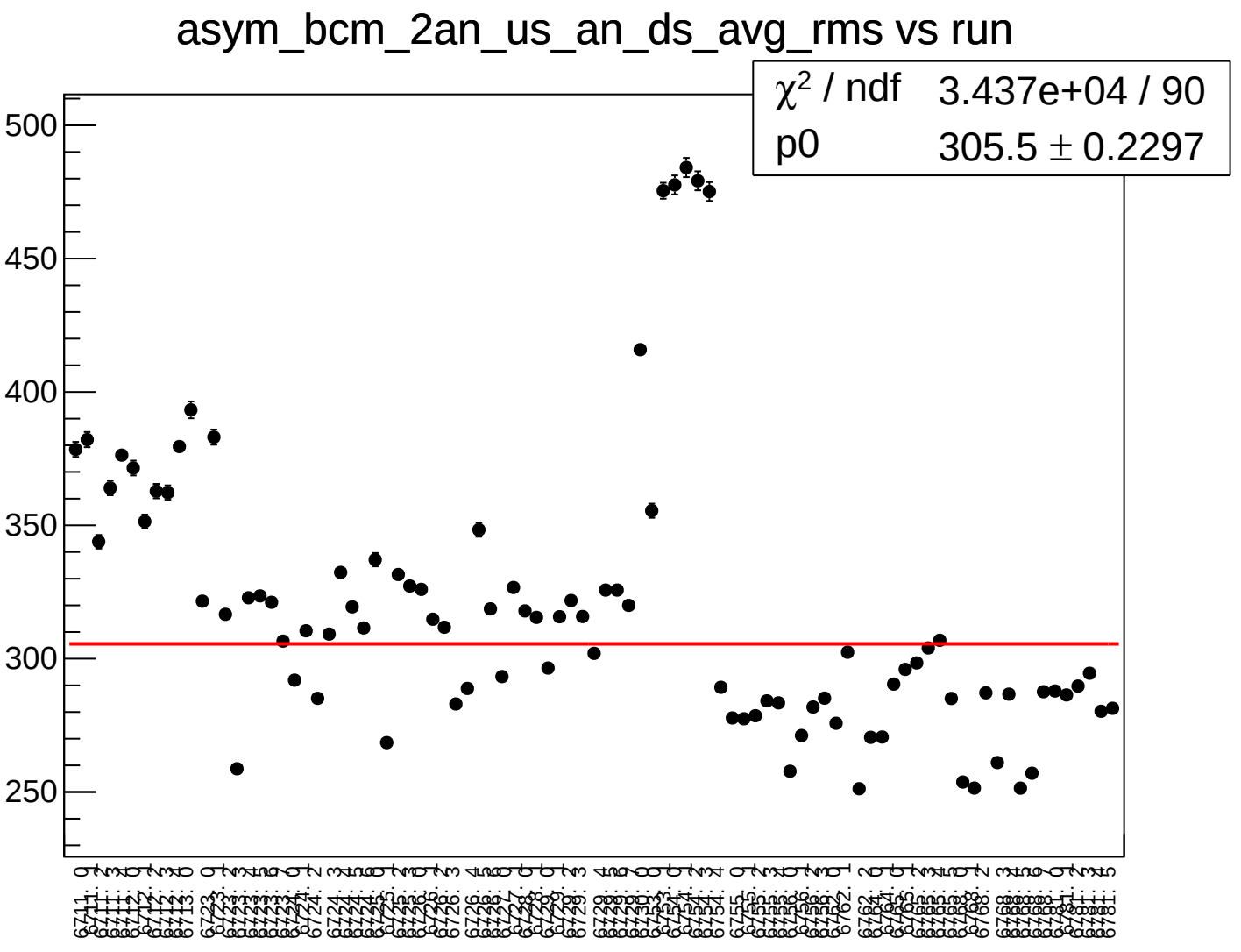

pull1D
Entries 91
Mean 0.08668
Std Dev 2.993

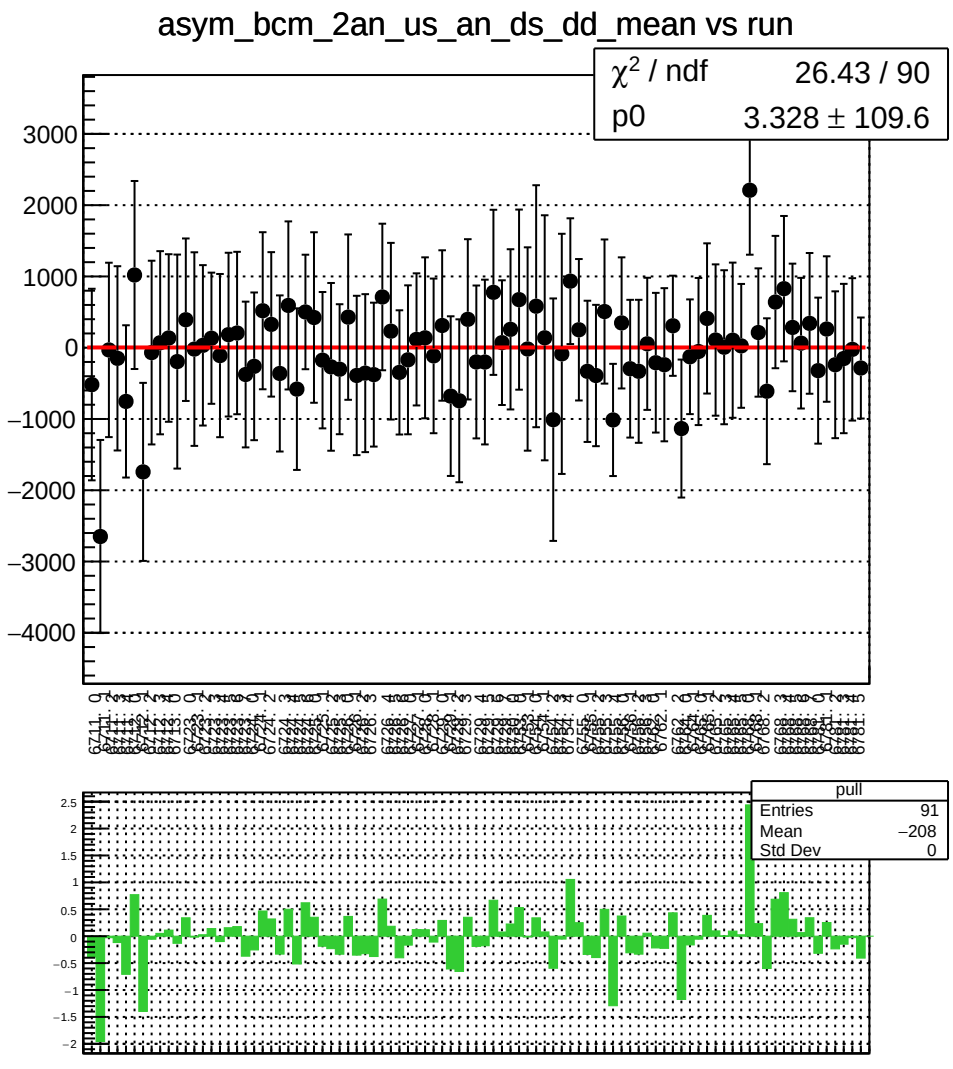
asym_bpm1i06WS_rms vs run

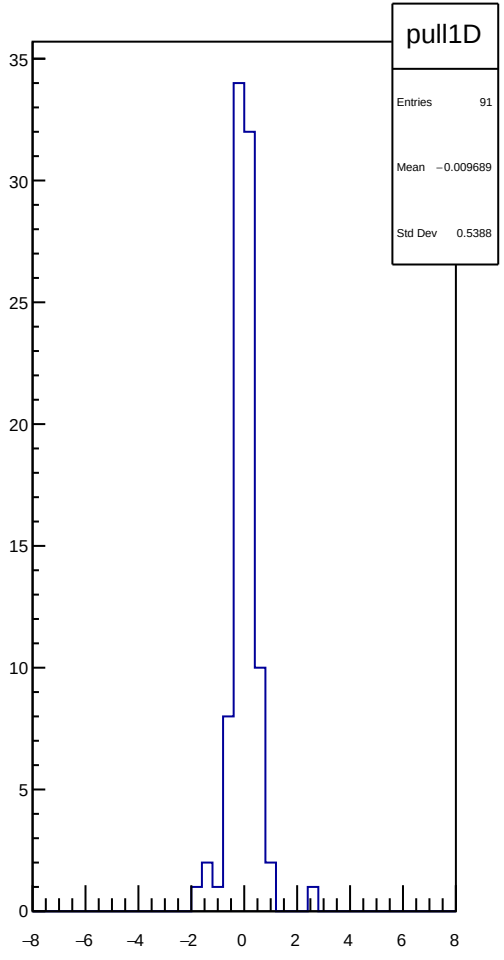


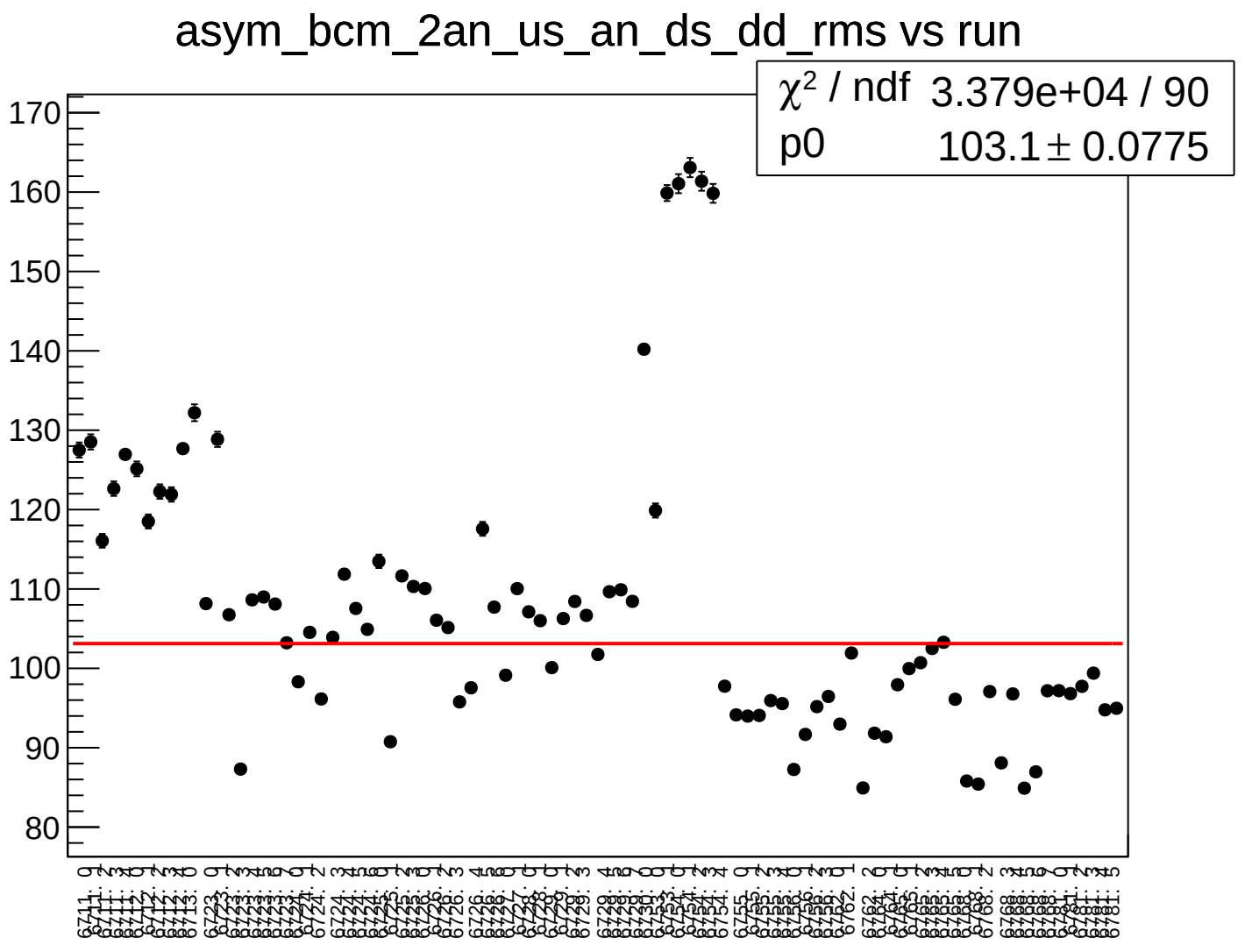

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 26.6 / 90
p0 −21.01 ± 324.8
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −210.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

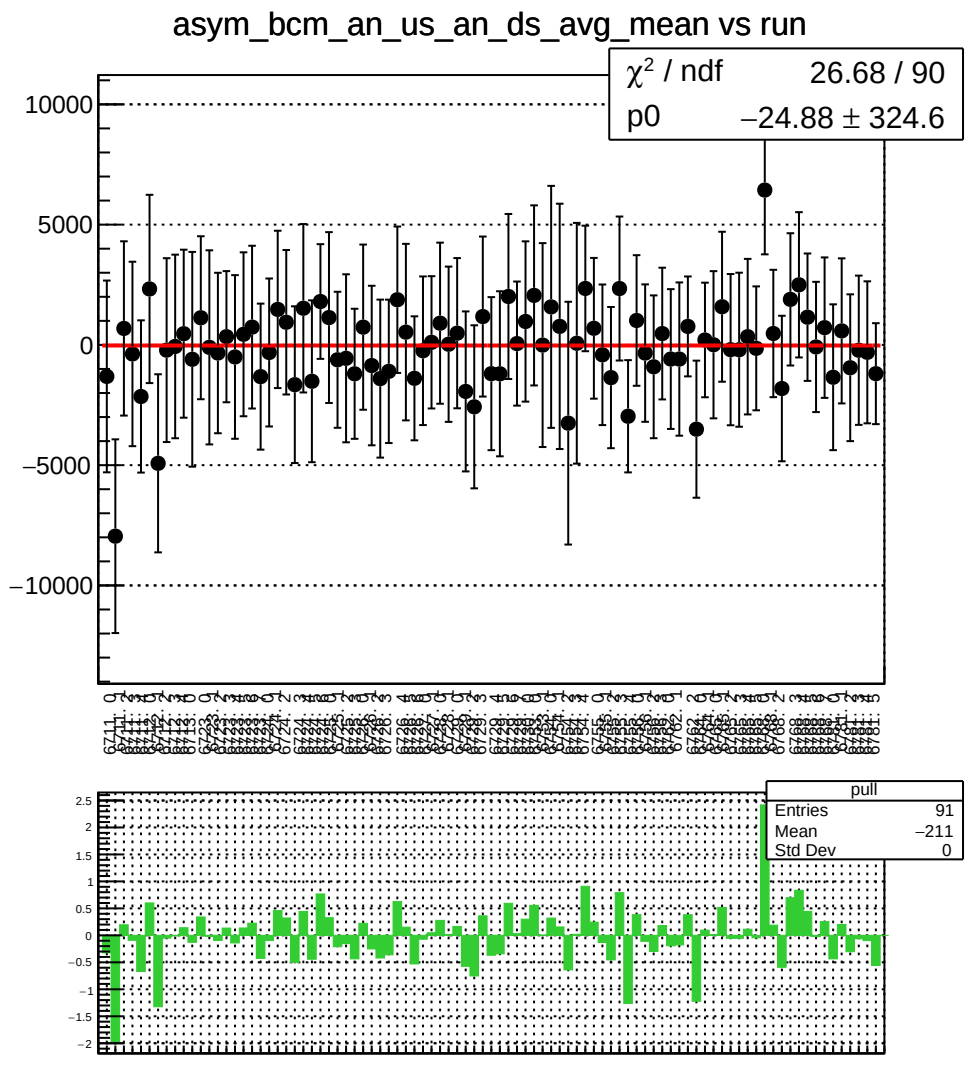

pull1D
Entries 91
Mean −0.009392
Std Dev 0.5406
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

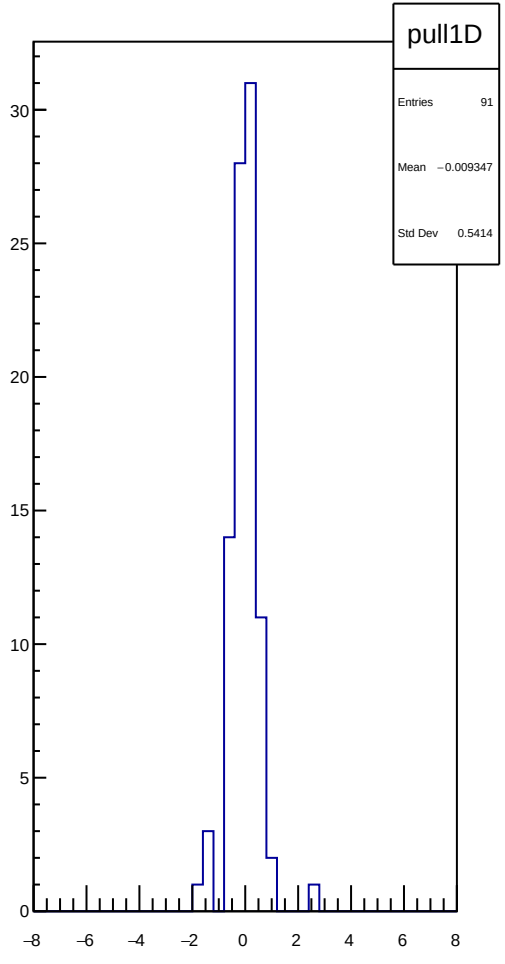

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 3.437e+04 / 90
p0 305.5 ± 0.2297
500
450
400
350
300
250

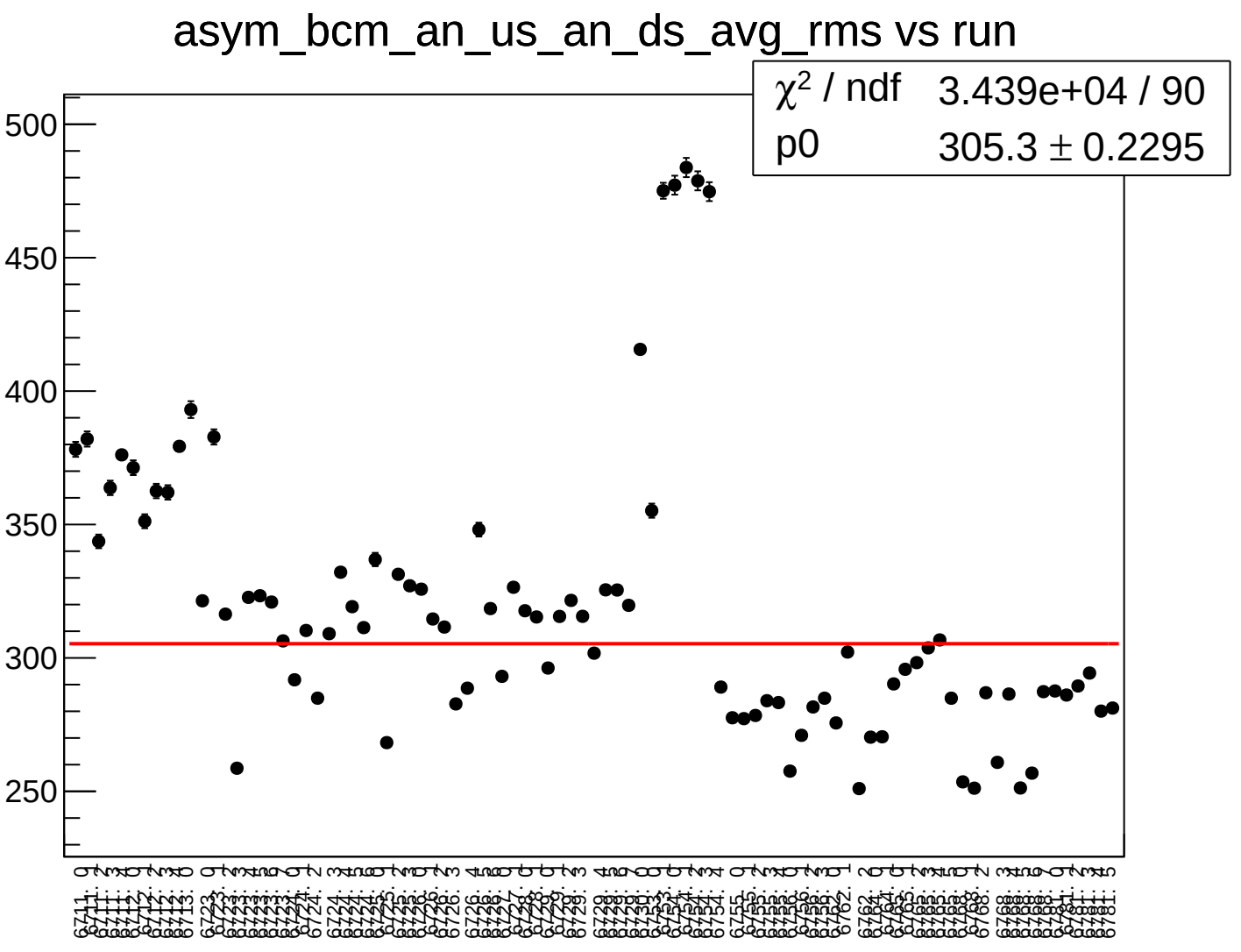

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 26.43 / 90
p0 3.328 ± 109.6
pull
Entries 91
Mean −208
Std Dev 0

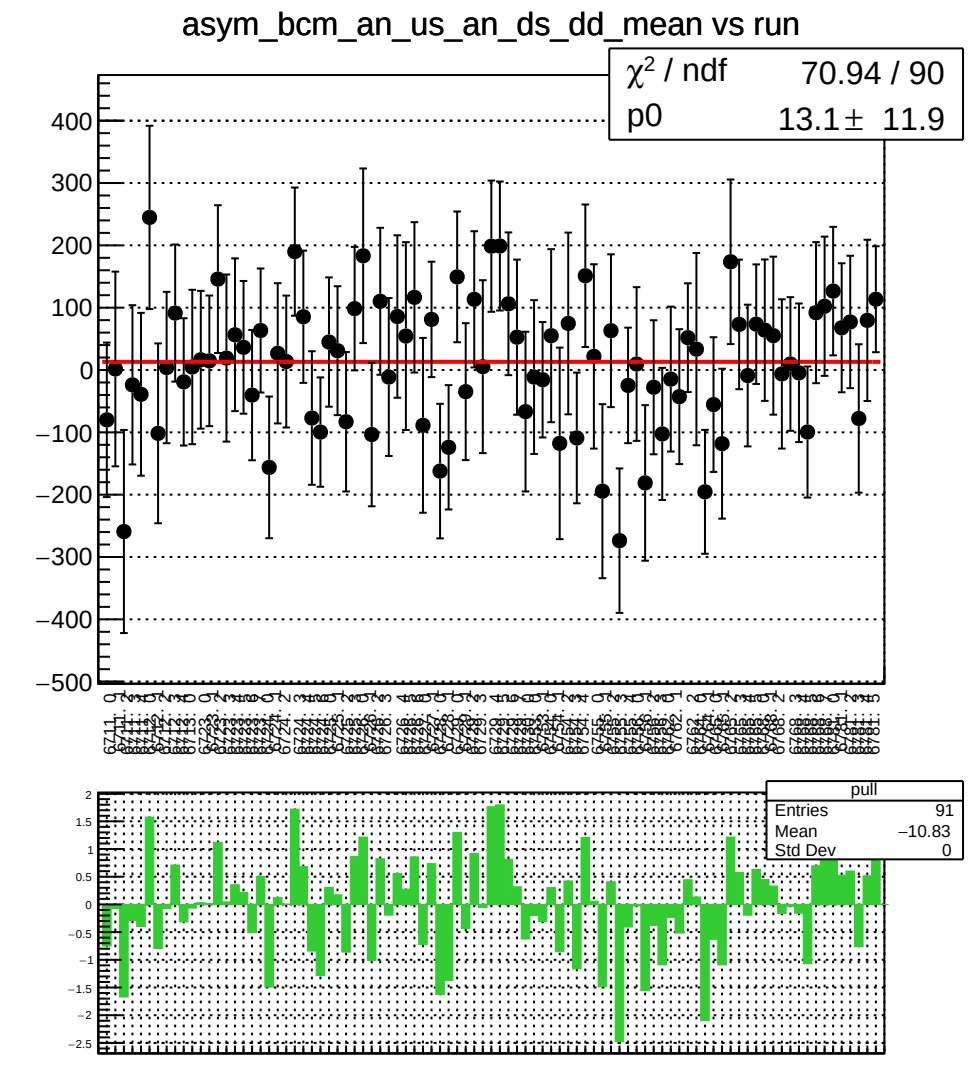

pull1D
Entries 91
Mean −0.009689
Std Dev 0.5388

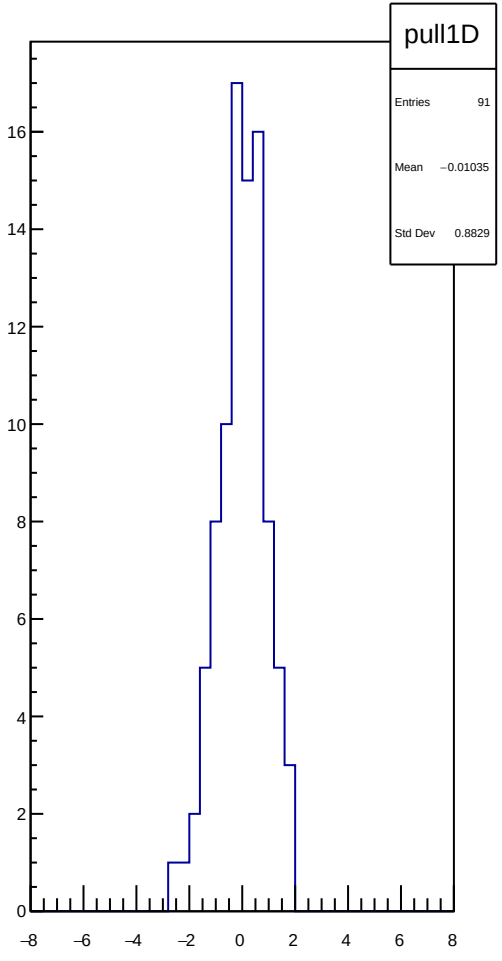

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 3.379e+04 / 90
p0 103.1 ± 0.0775
170
160
150
140
130
120
110
100
90
80

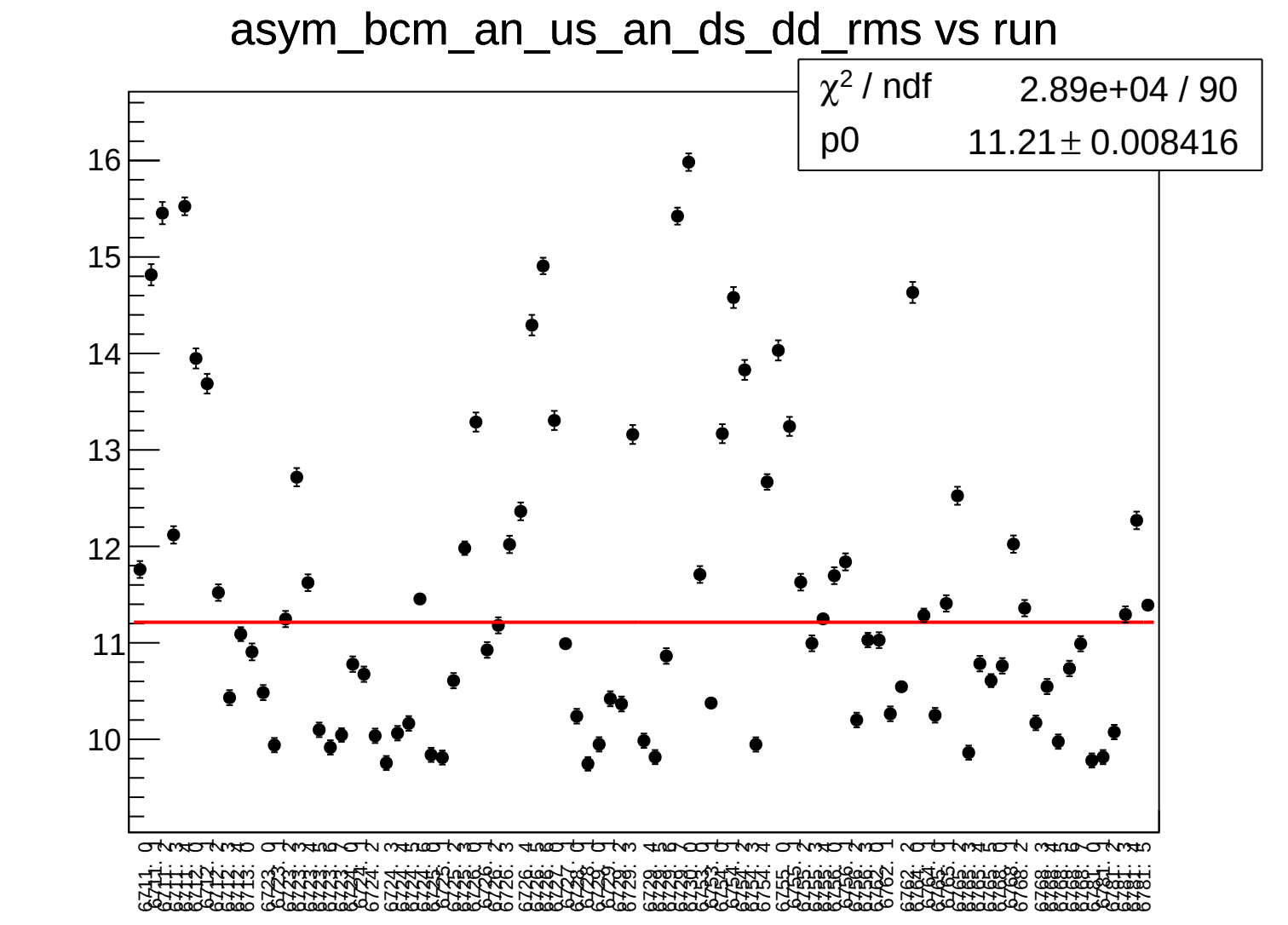

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 26.68 / 90
p0 −24.88 ± 324.6
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −211
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

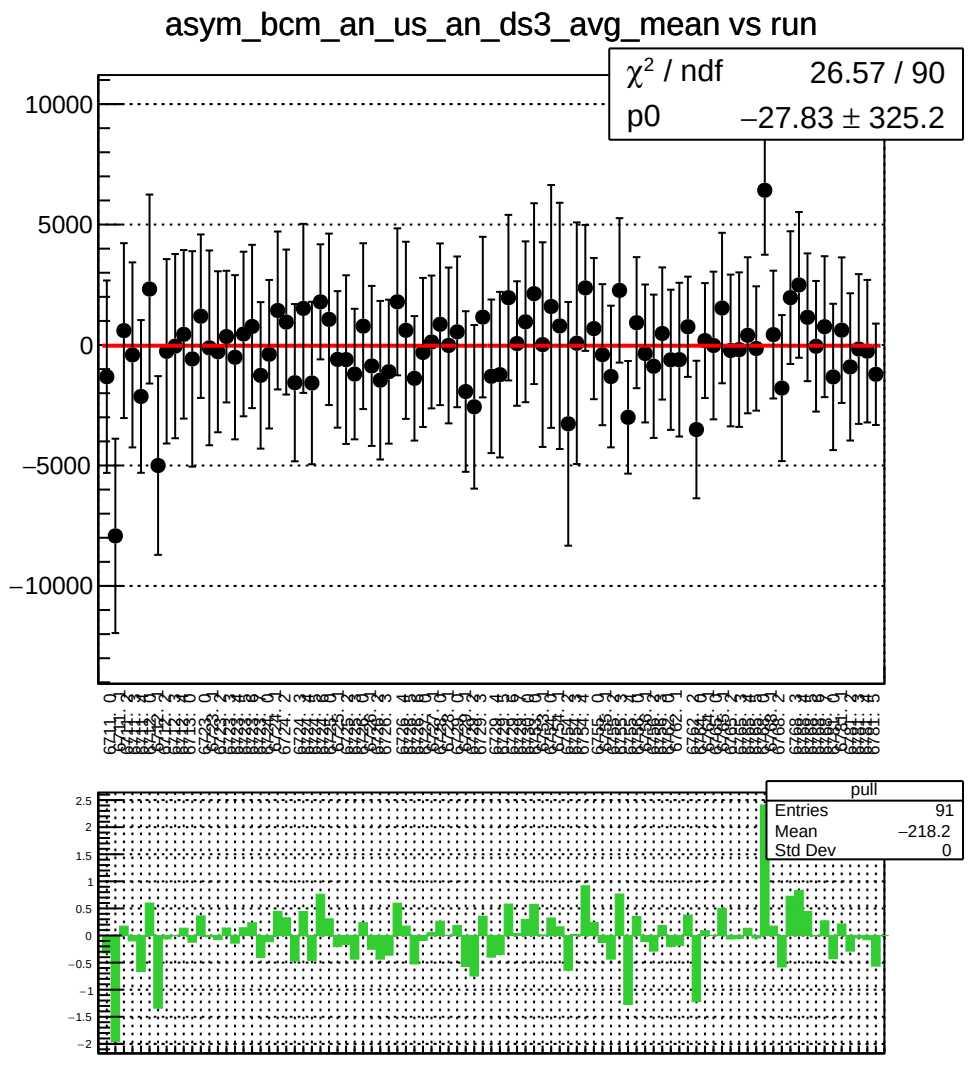

pull1D
Entries 91
Mean −0.009347
Std Dev 0.5414
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

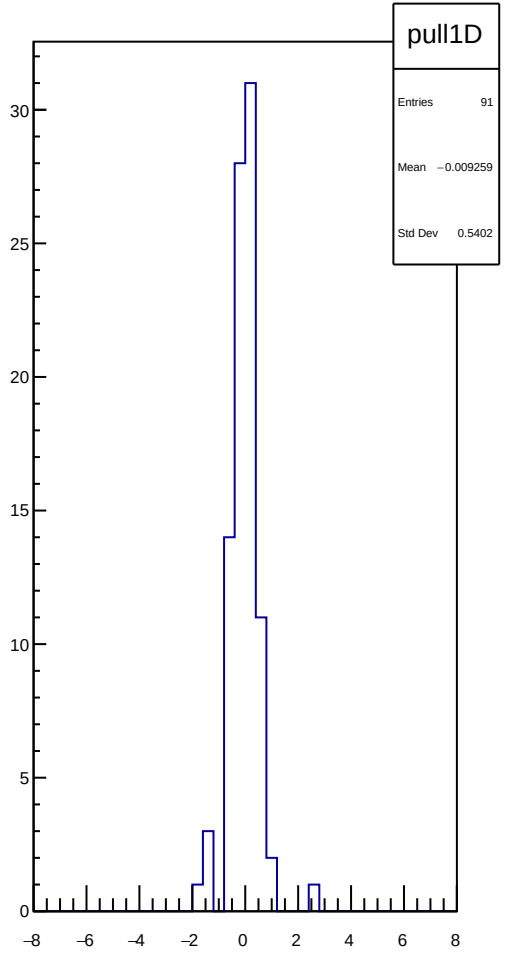

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 3.439e+04 / 90
p0 305.3 ± 0.2295
500
450
400
350
300
250

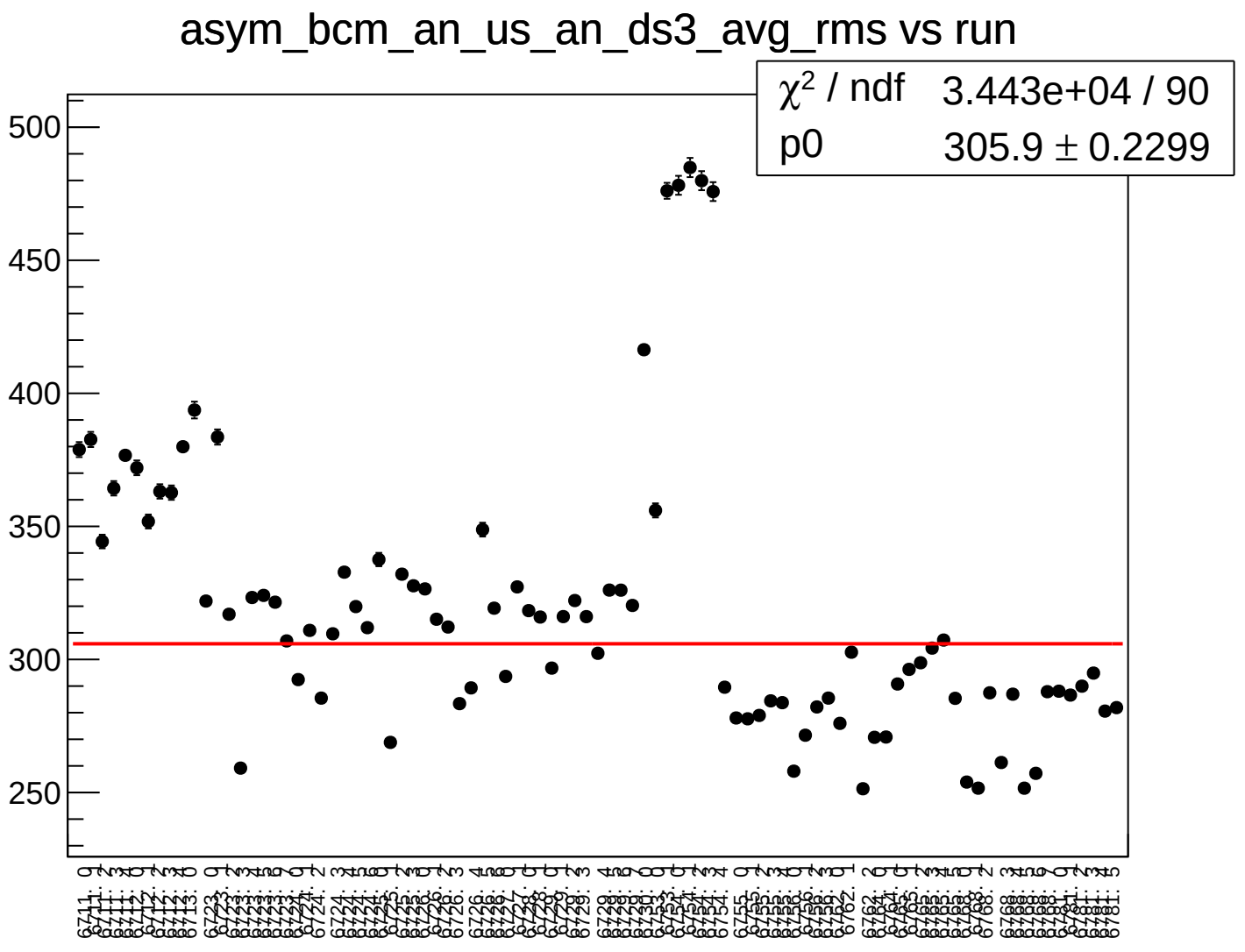

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 70.94 / 90
p0 13.1 ± 11.9
pull
Entries 91
Mean −10.83
Std Dev 0

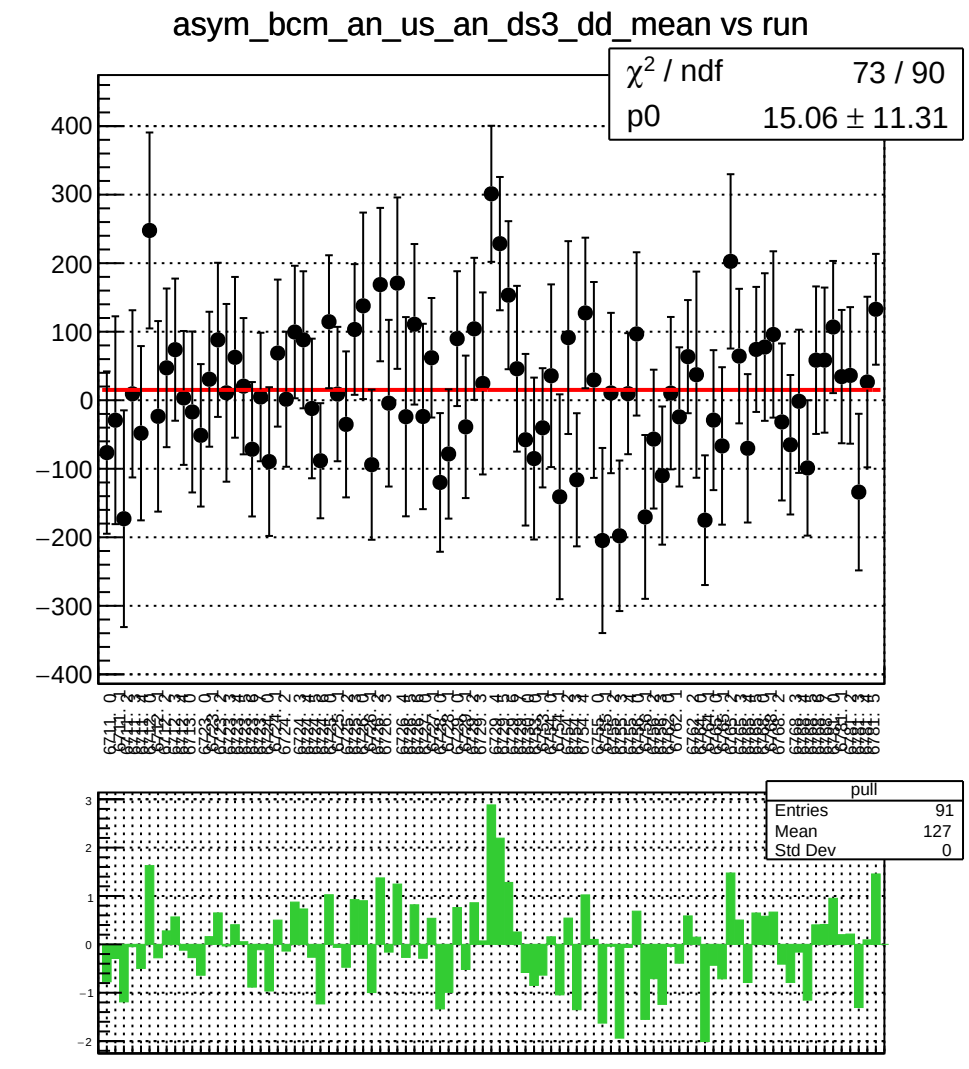

pull1D
Entries 91
Mean −0.01035
Std Dev 0.8829

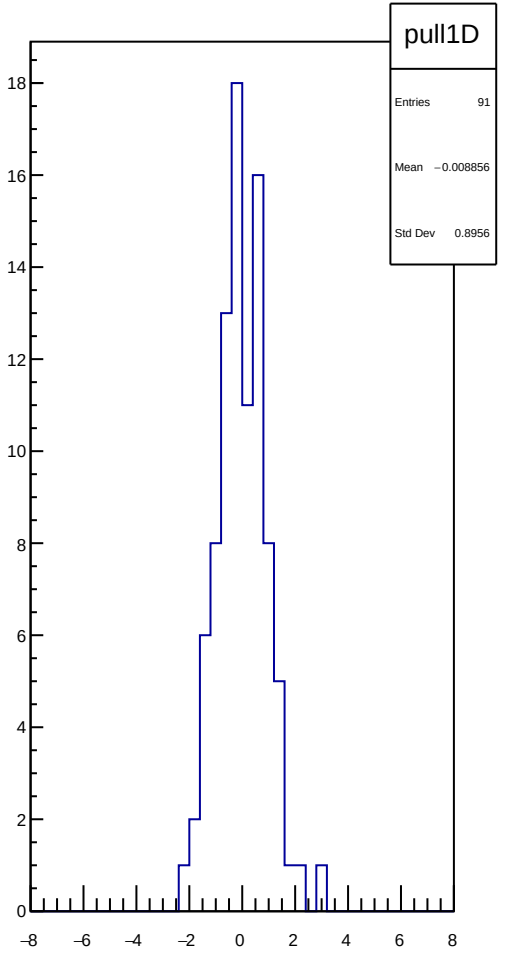

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 2.89e+04 / 90
p0 11.21 ± 0.008416
16
15
14
13
12
11
10

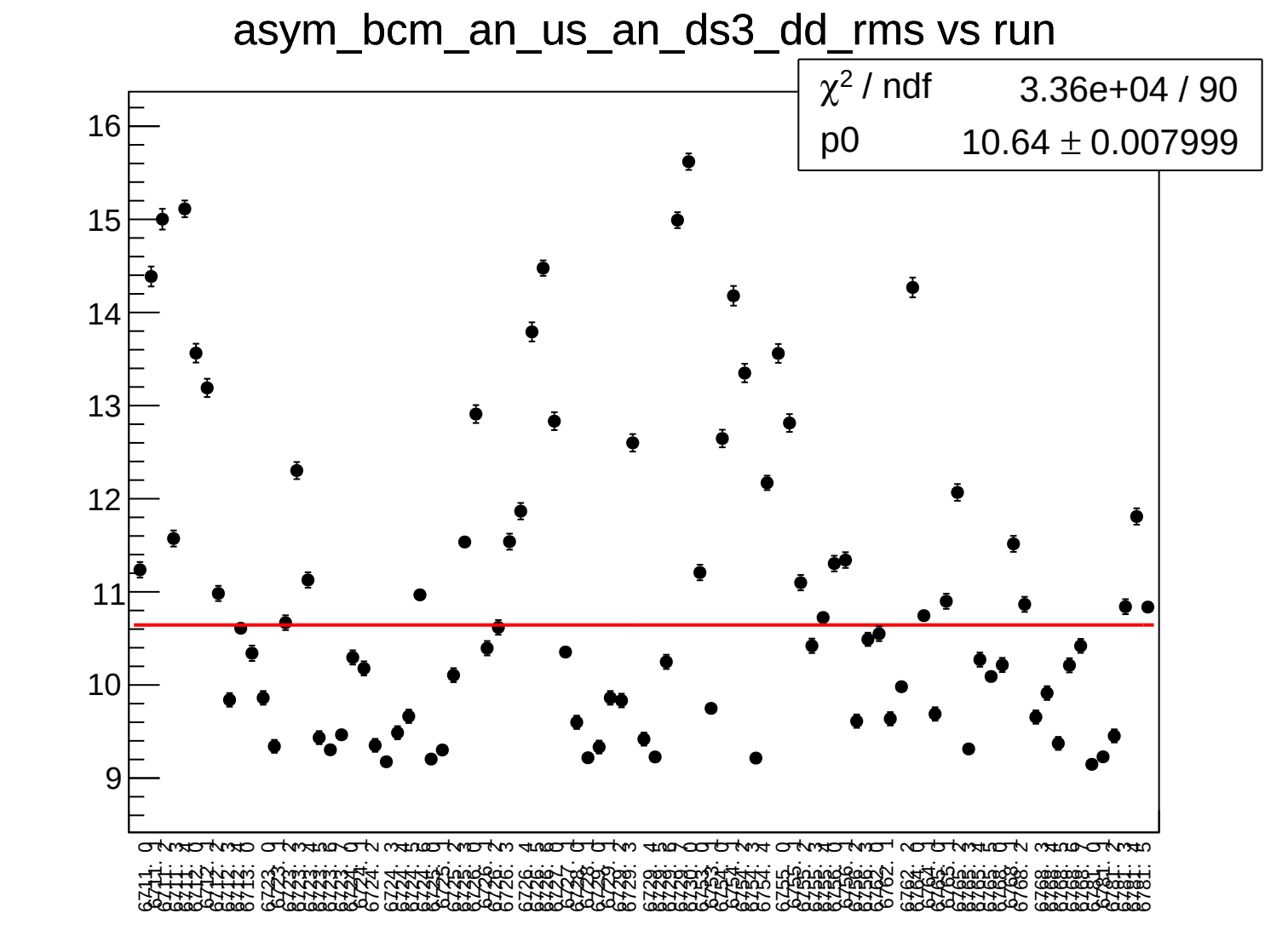

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 26.57 / 90
p0 −27.83 ± 325.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −218.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

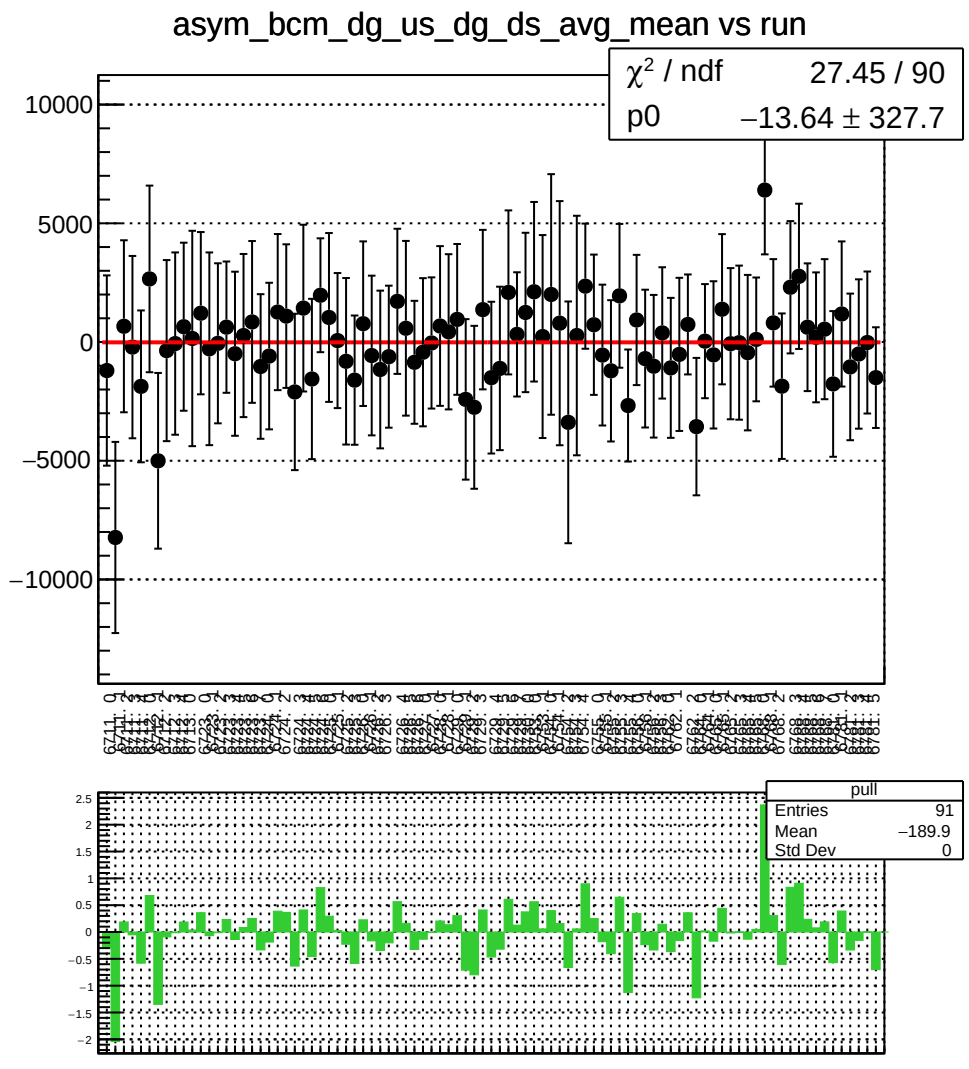

pull1D
Entries 91
Mean −0.009259
Std Dev 0.5402
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

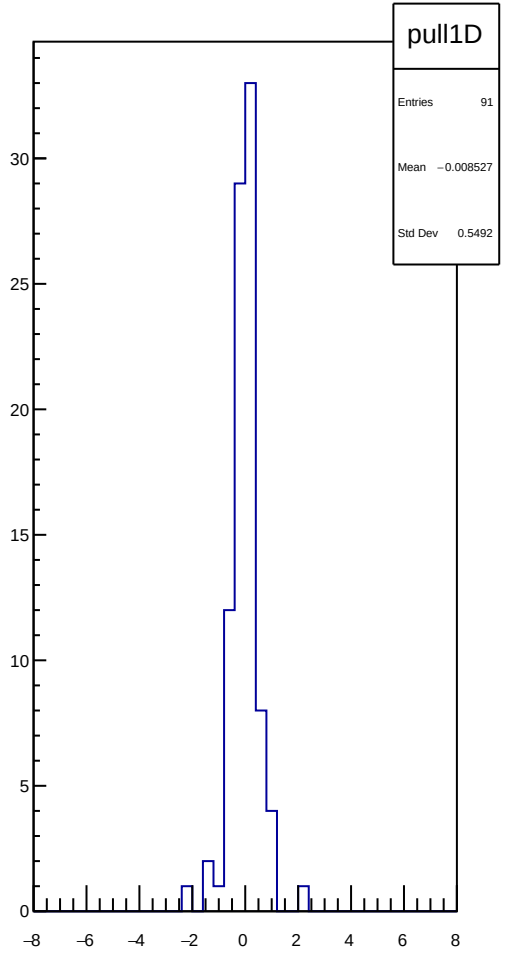

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 3.443e+04 / 90
p0 305.9 ± 0.2299
500
450
400
350
300
250

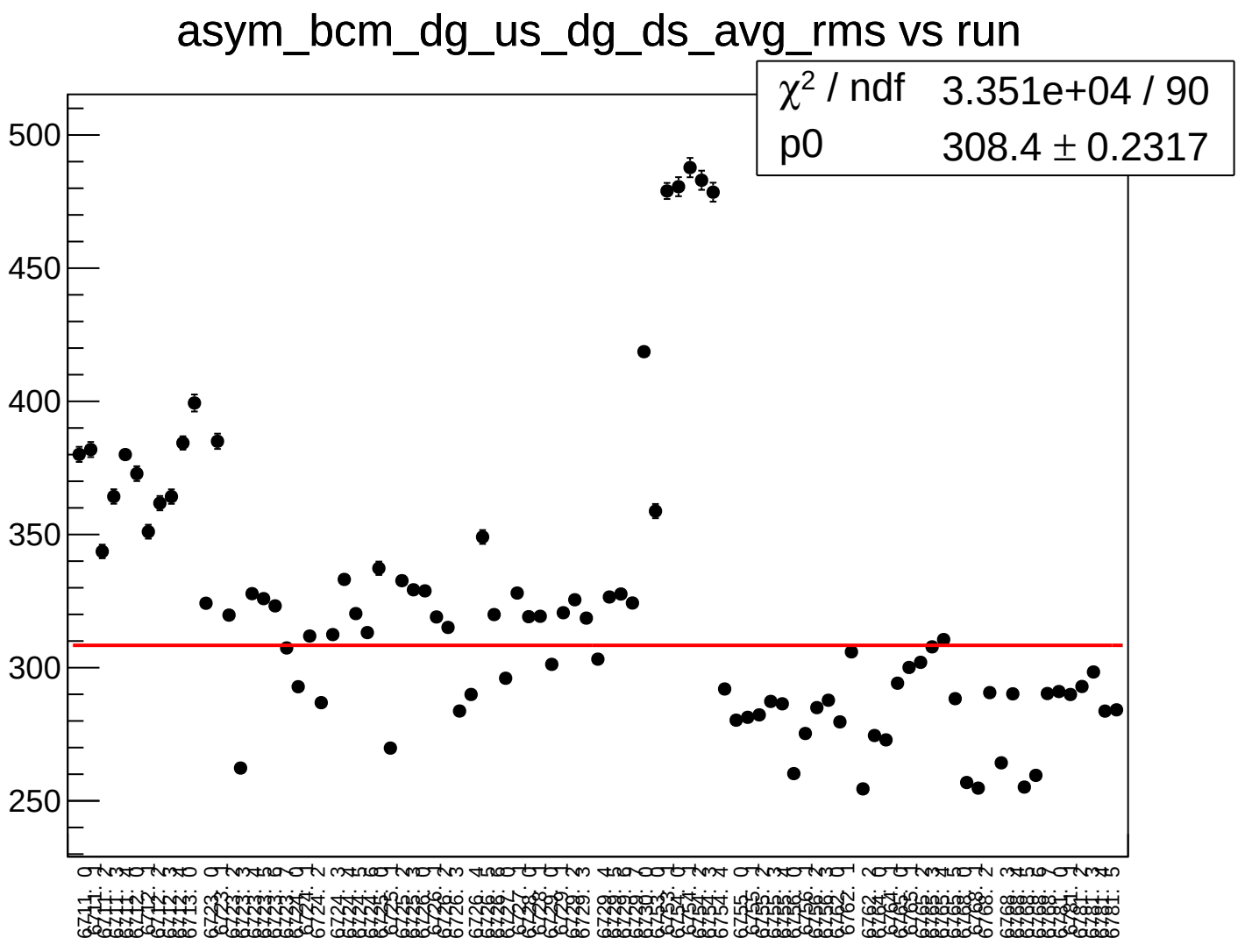

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 73 / 90
p0 15.06 ± 11.31
pull
Entries 91
Mean 127
Std Dev 0

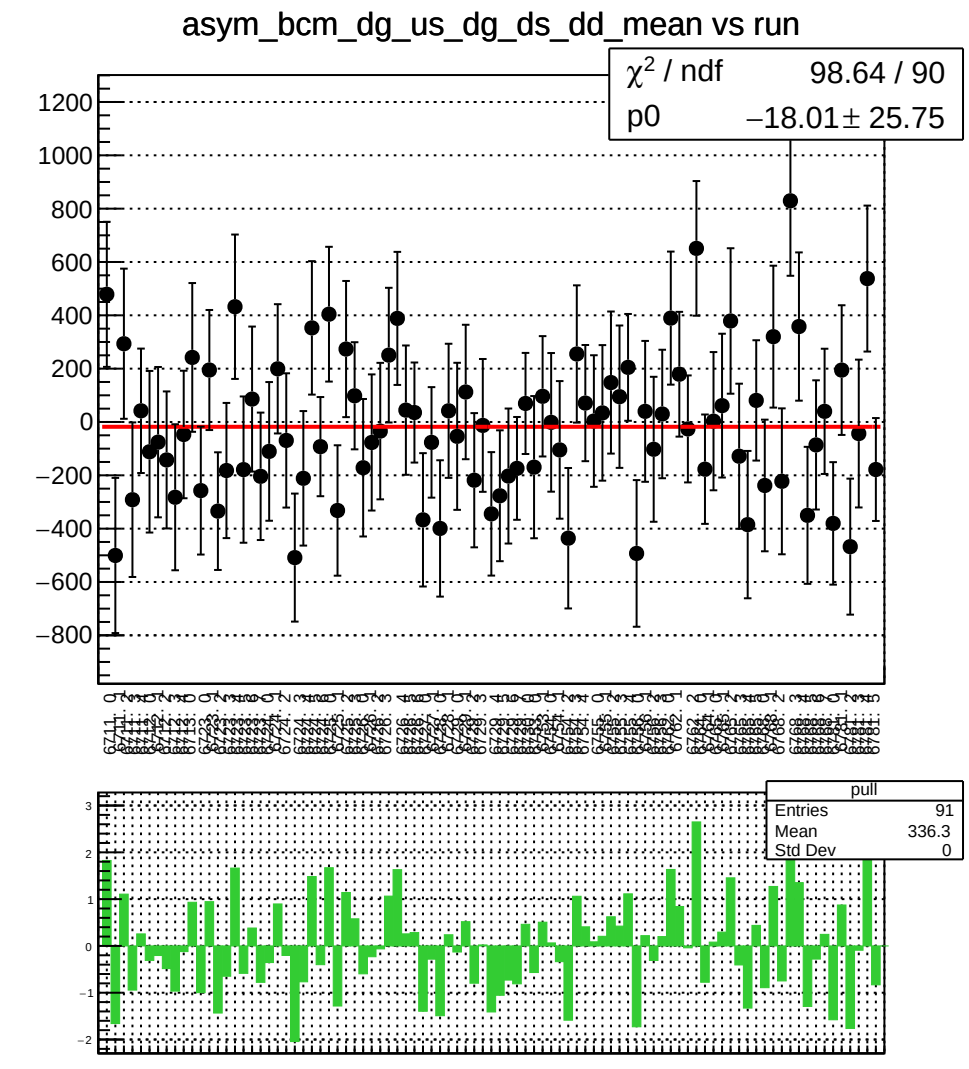

pull1D
Entries 91
Mean −0.008856
Std Dev 0.8956

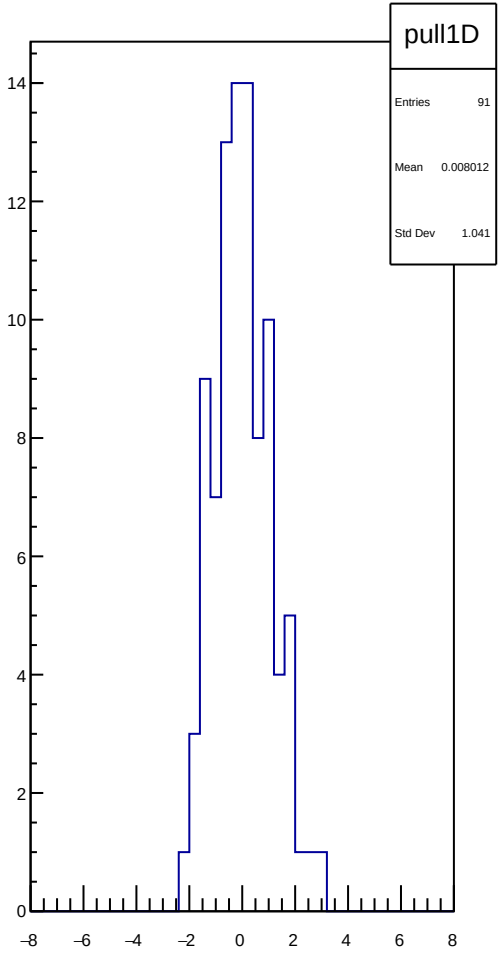

asym_bcm_an_us_an_ds3_dd_rms vs run
χ^2 / ndf 3.36e+04 / 90
p0 10.64 ± 0.007999
16
15
14
13
12
11
10
9

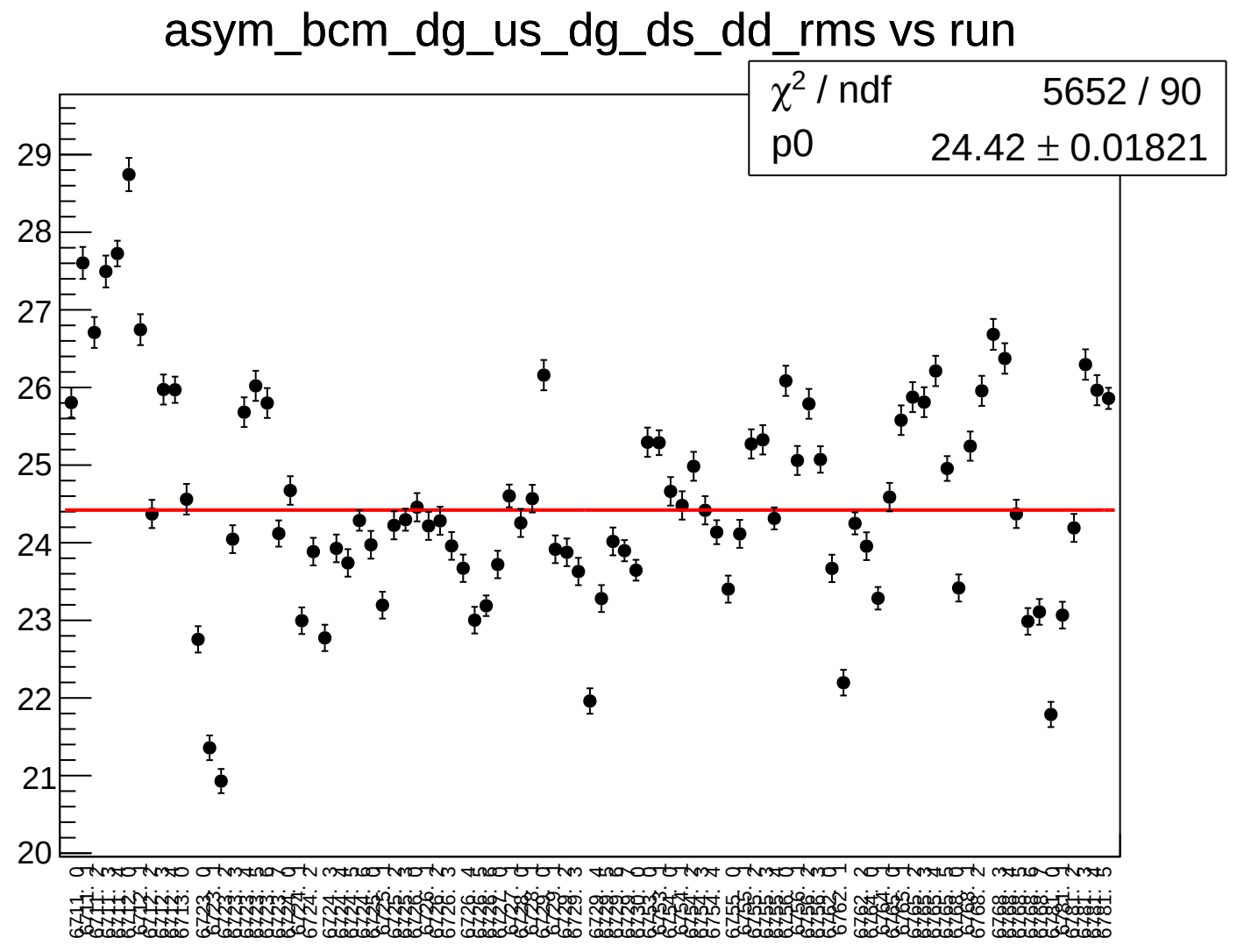

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 27.45 / 90
p0 −13.64 ± 327.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −189.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

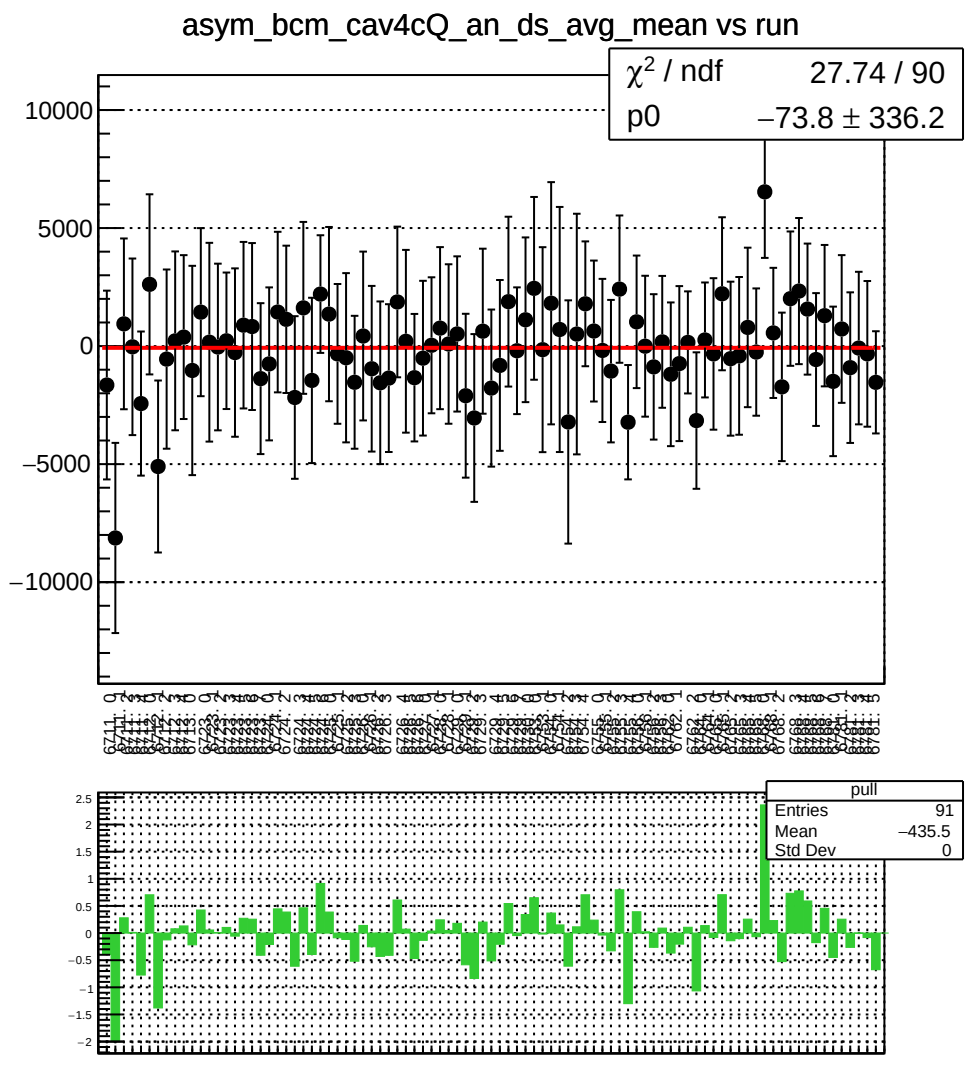

pull1D
Entries 91
Mean −0.008527
Std Dev 0.5492
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

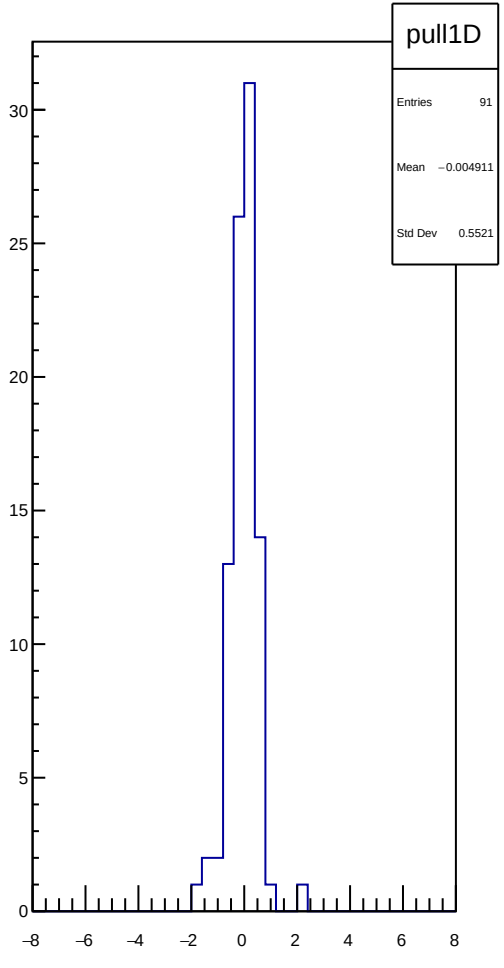

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 3.351e+04 / 90
p0 308.4 ± 0.2317
500
450
400
350
300
250

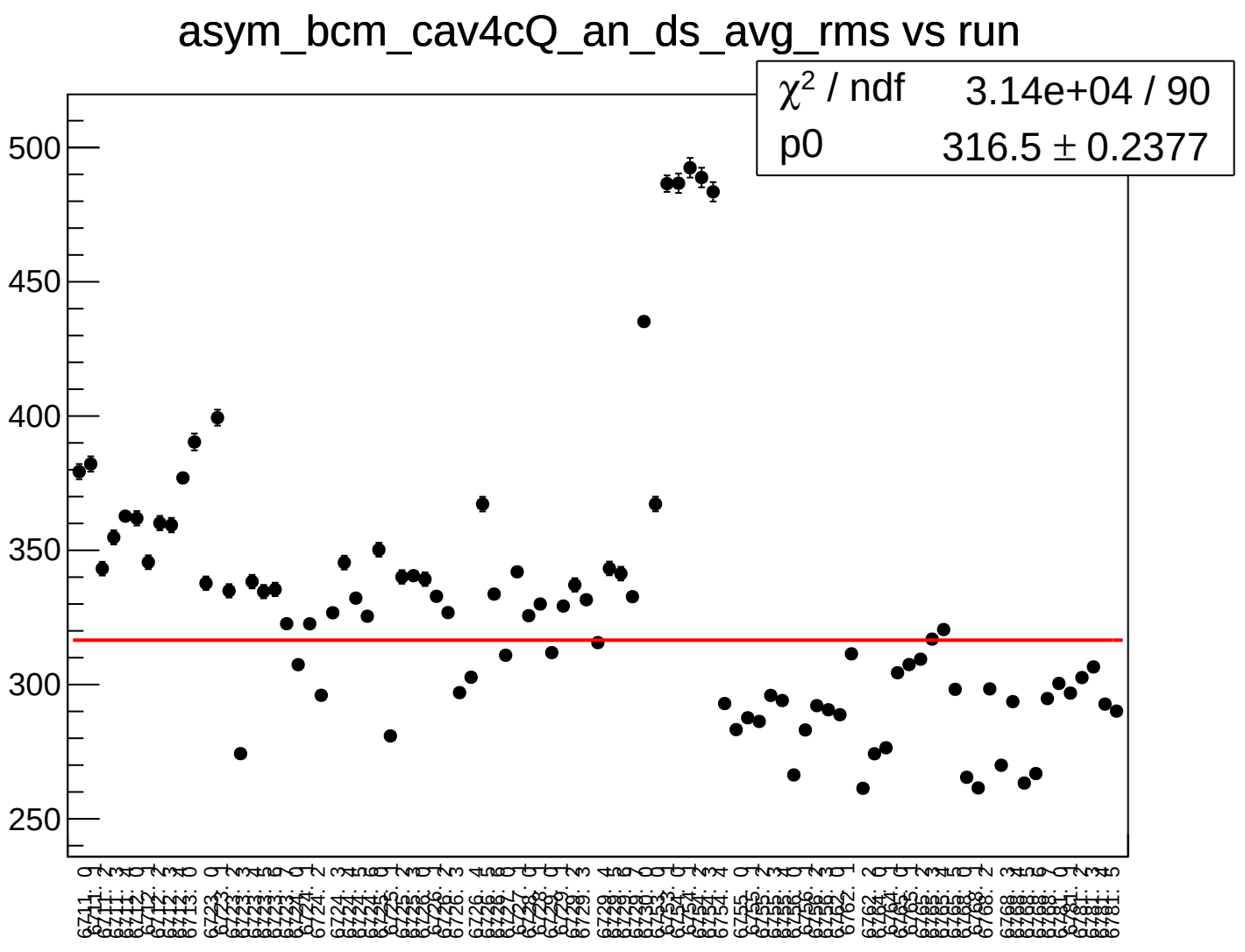

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 98.64 / 90
p0 −18.01± 25.75
pull
Entries 91
Mean 336.3
Std Dev 0

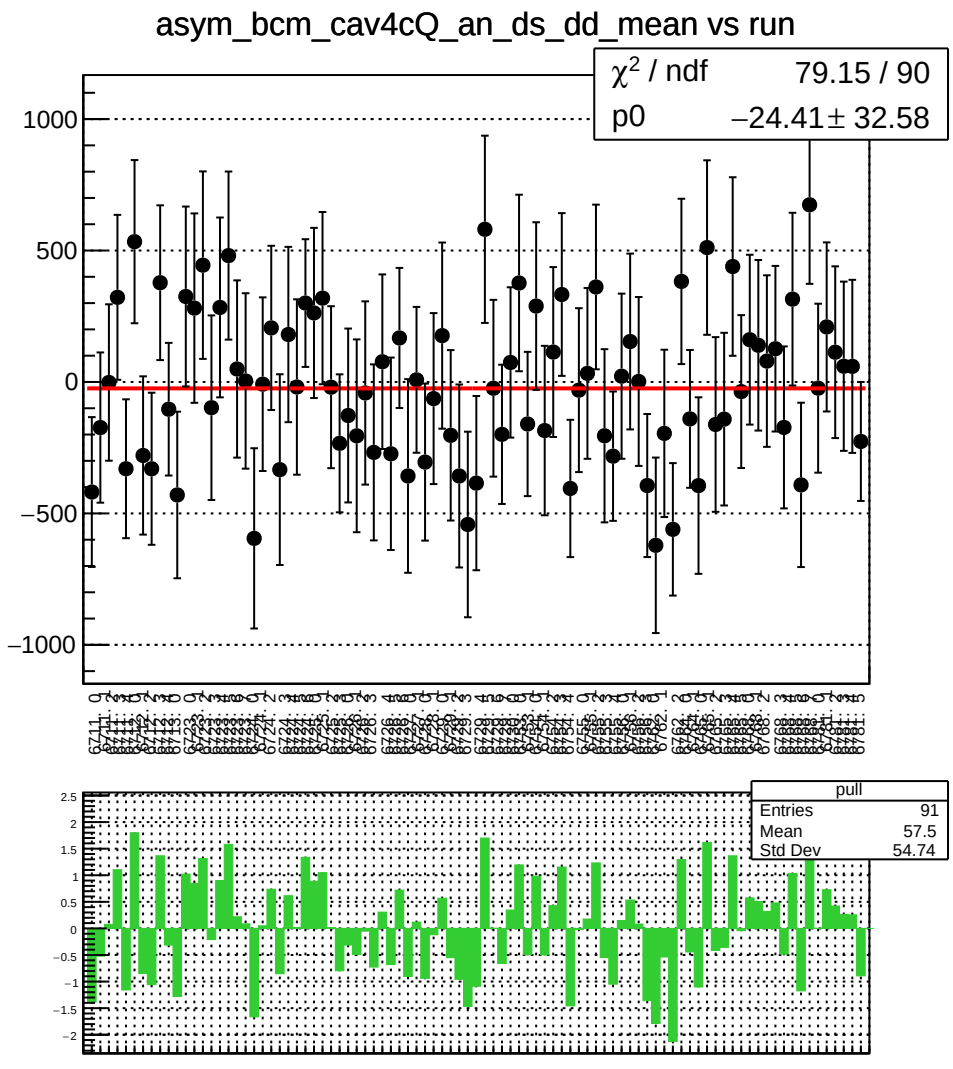

pull1D
Entries 91
Mean 0.008012
Std Dev 1.041

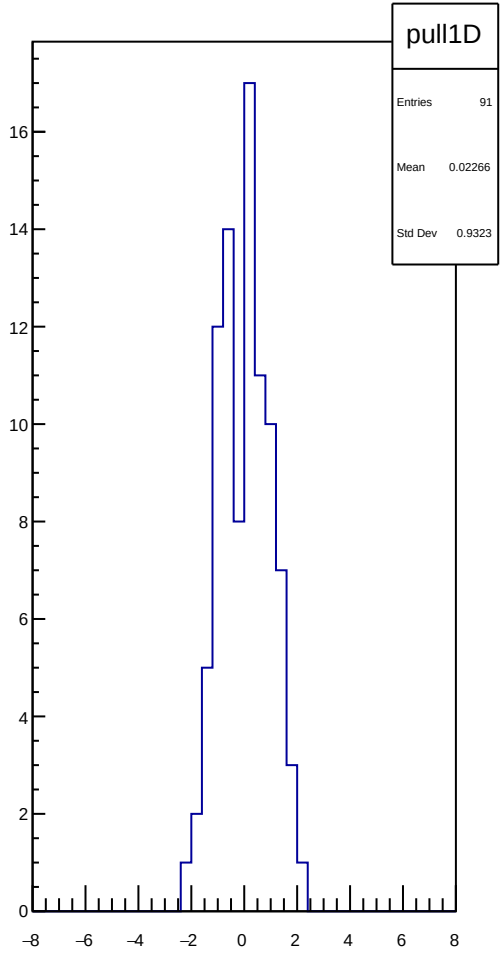

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 5652 / 90
p0 24.42 ± 0.01821
29
28
27
26
25
24
23
22
21
20

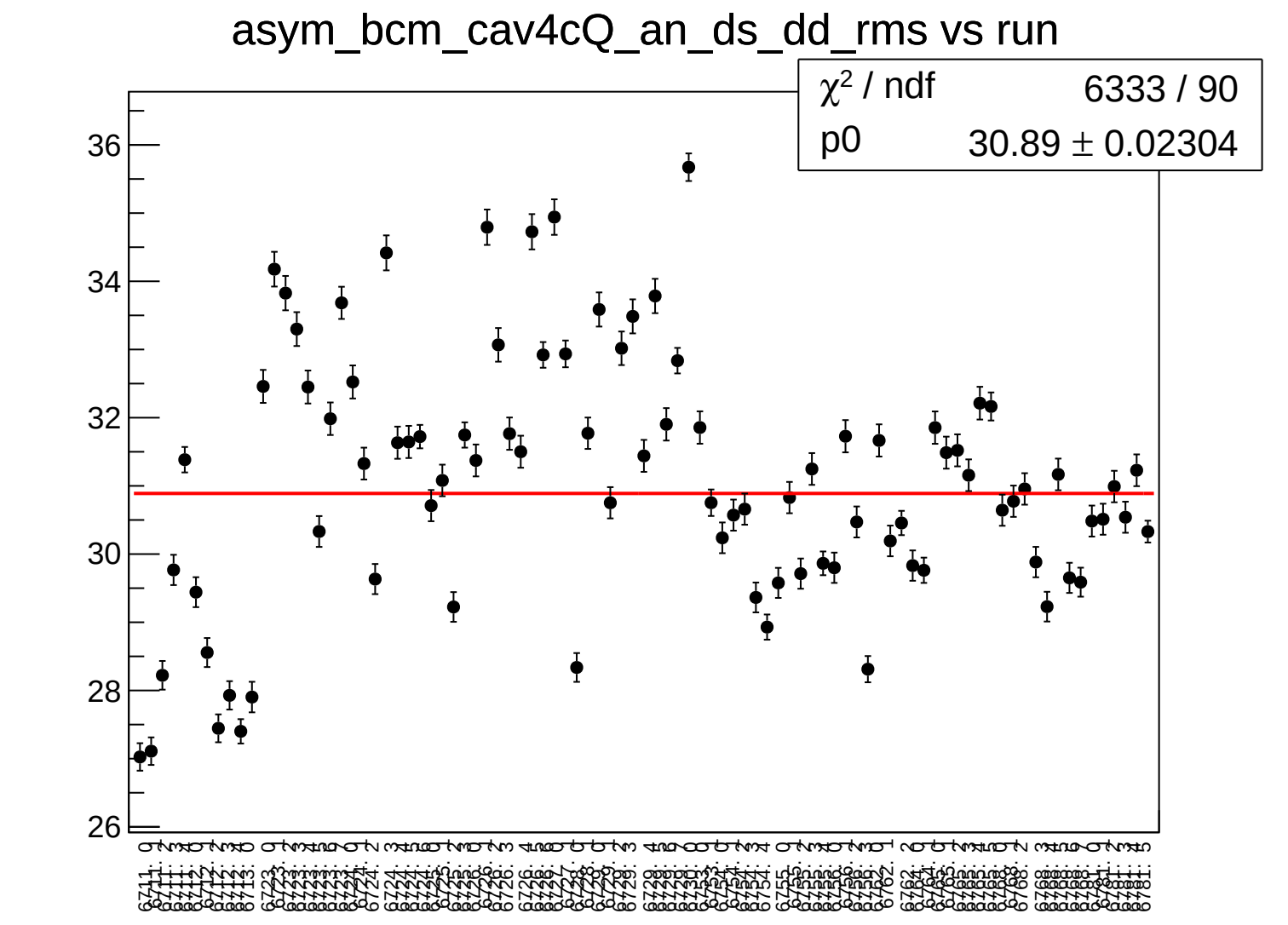

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 27.74 / 90
p0 −73.8 ± 336.2
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −435.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

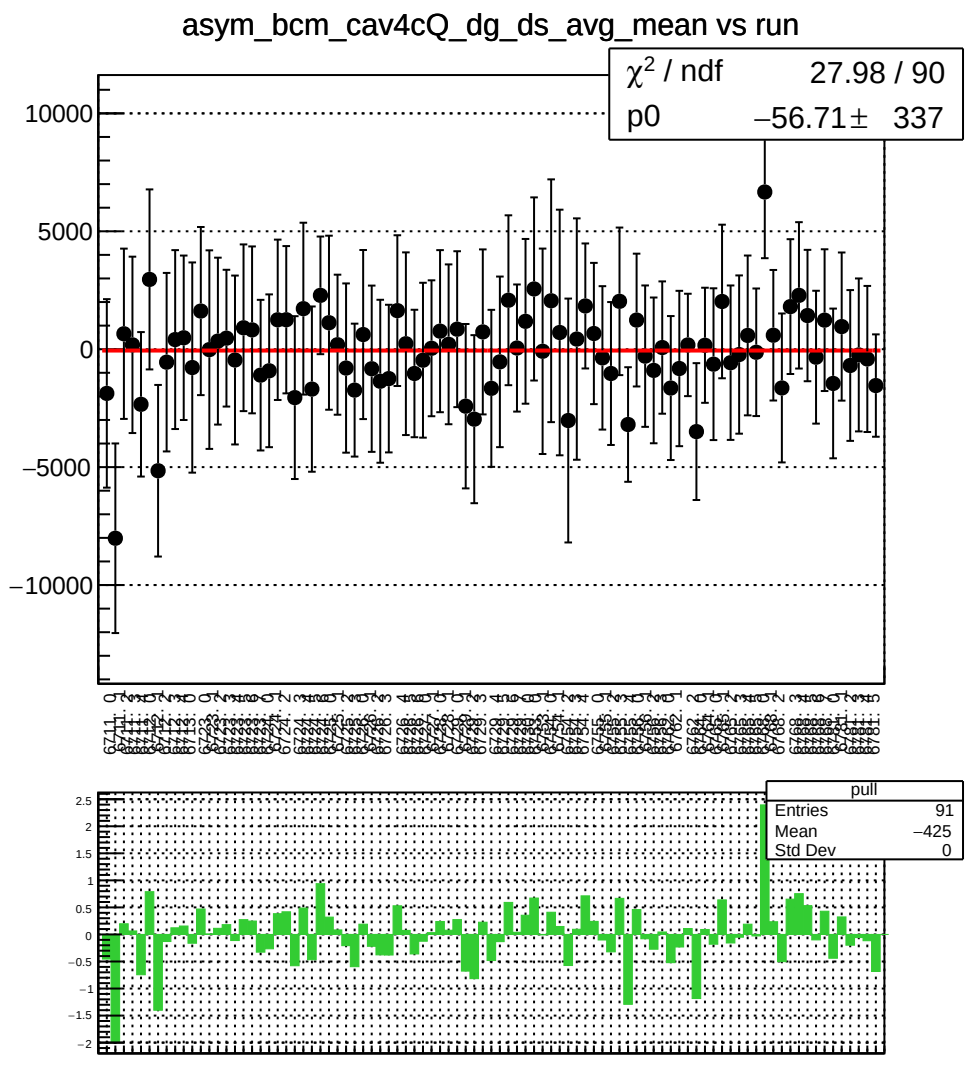

pull1D
Entries 91
Mean −0.004911
Std Dev 0.5521
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

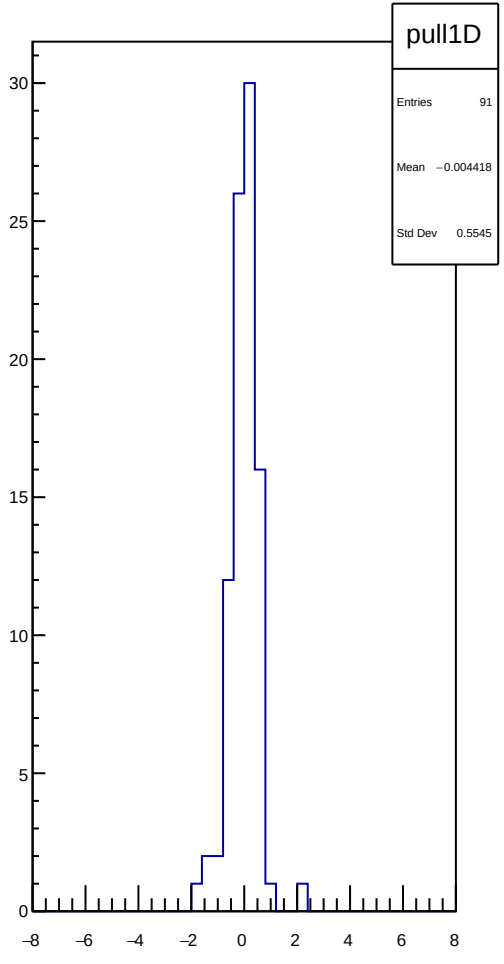

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 3.14e+04 / 90
p0 316.5 ± 0.2377
500
450
400
350
300
250

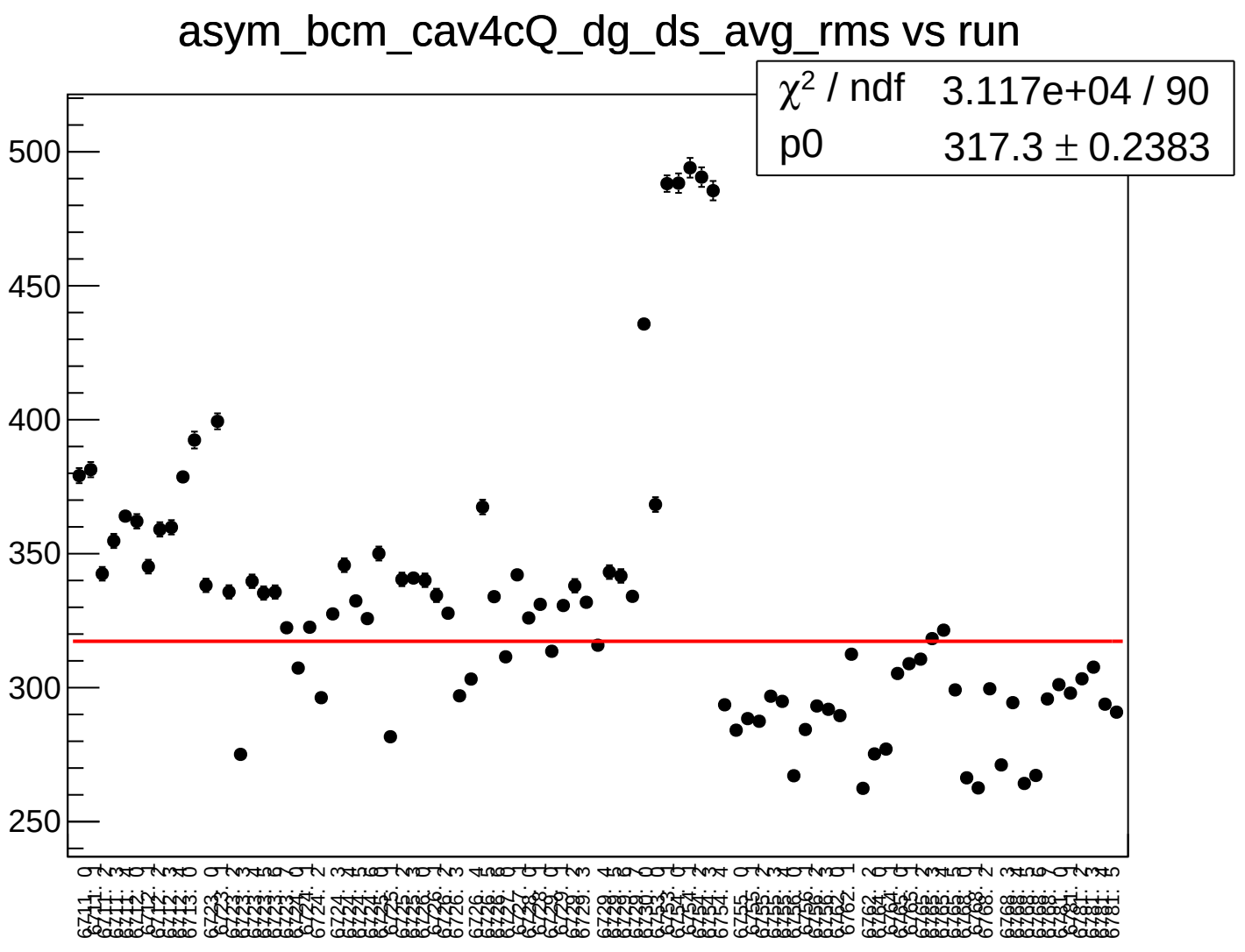

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 79.15 / 90
p0 −24.41 ± 32.58
1000
500
0
−500
−1000
pull
Entries 91
Mean 57.5
Std Dev 54.74
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

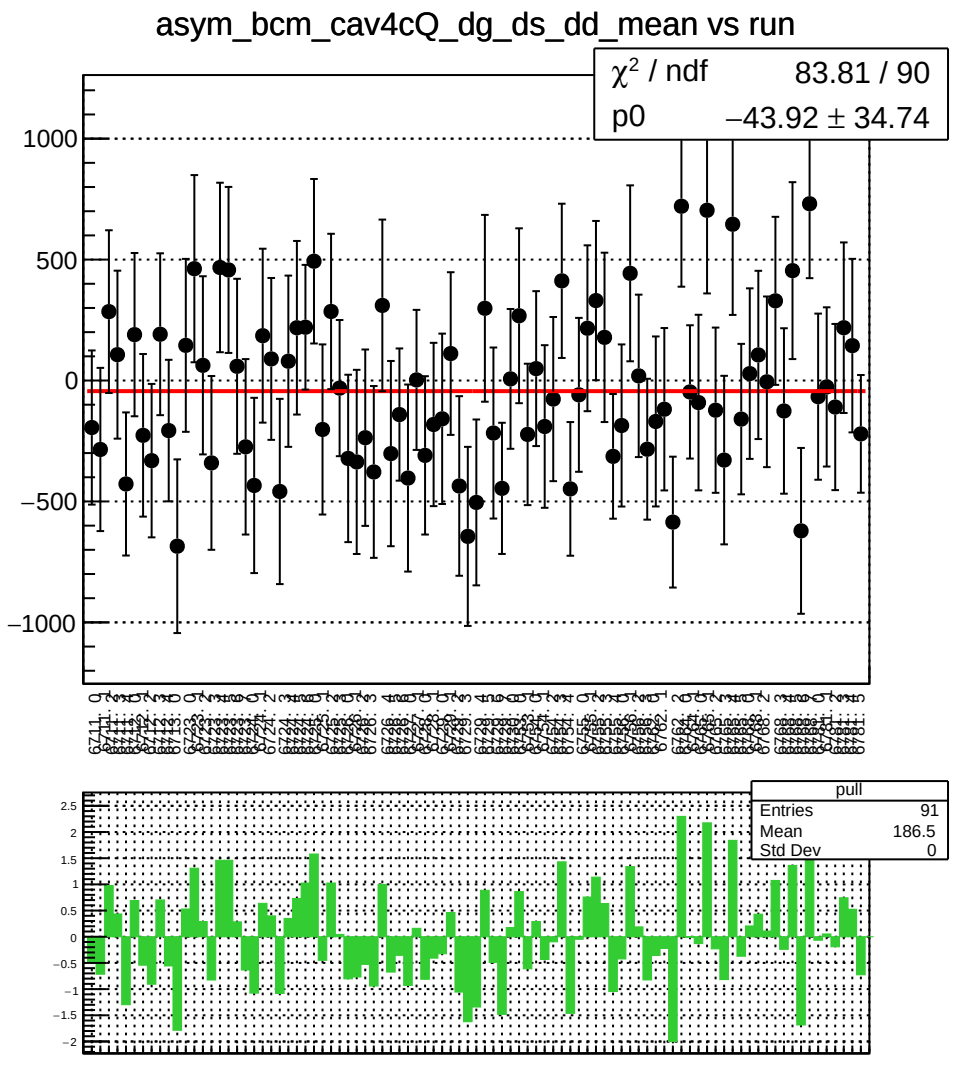

pull1D
Entries 91
Mean 0.02266
Std Dev 0.9323
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

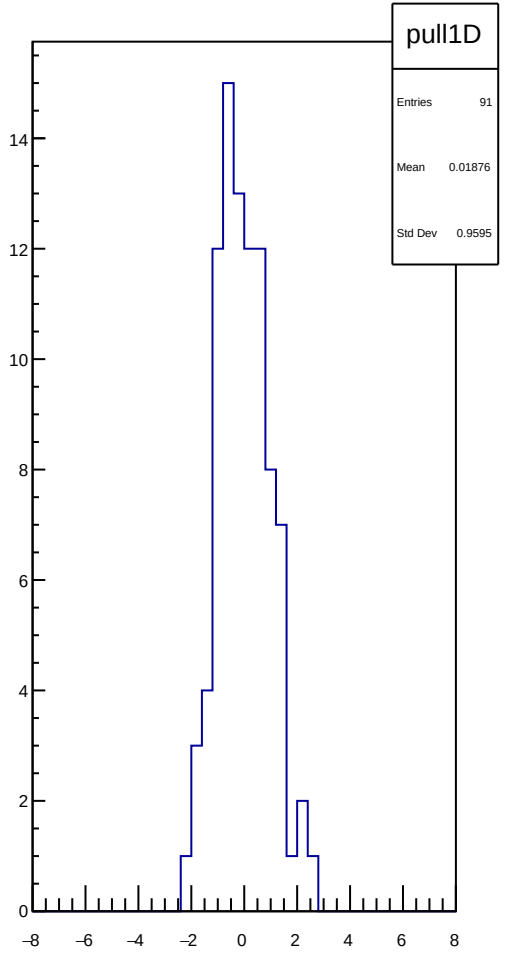

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 6333 / 90
p0 30.89 ± 0.02304
36
34
32
30
28
26

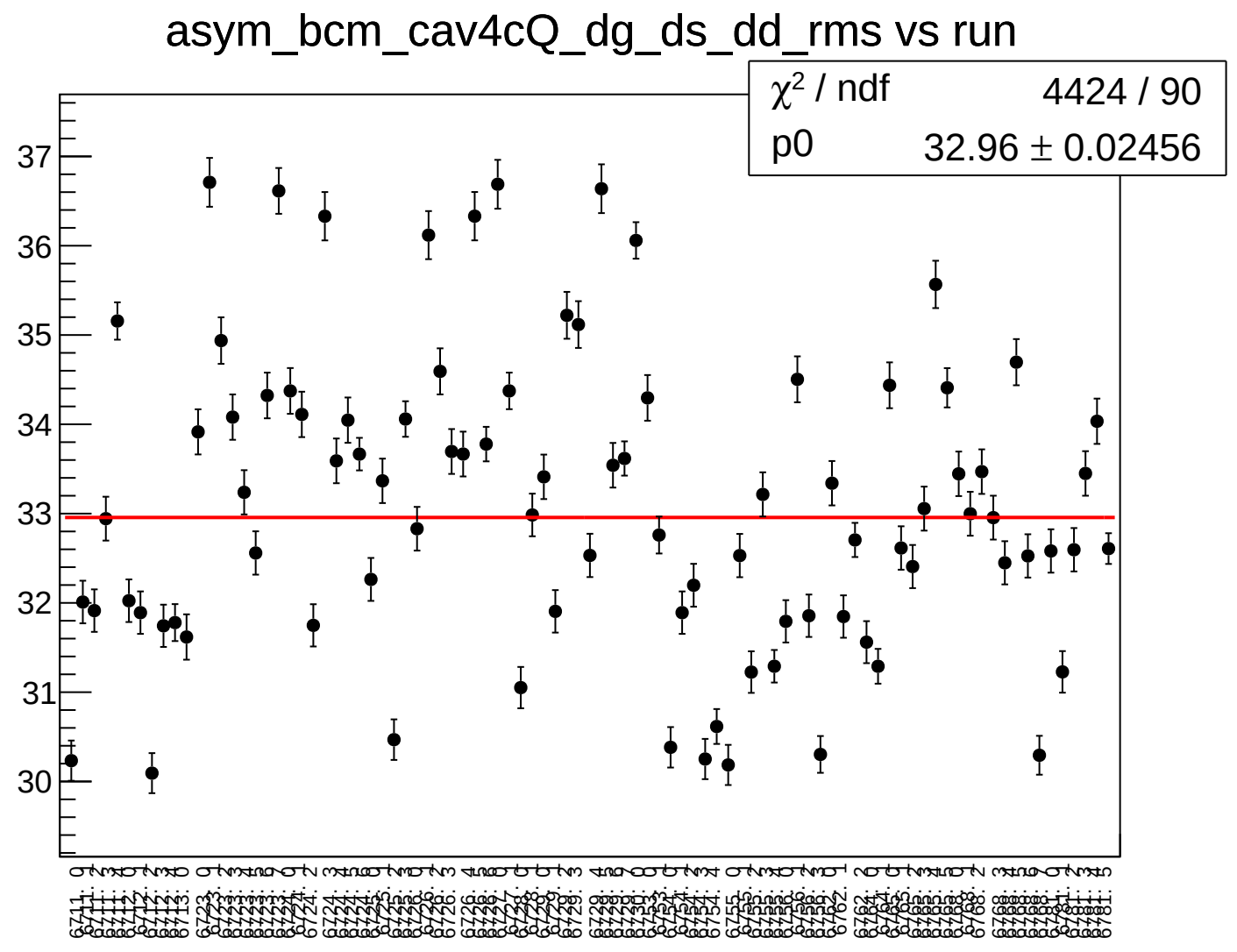

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 27.98 / 90
p0 −56.71 ± 337
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −425
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

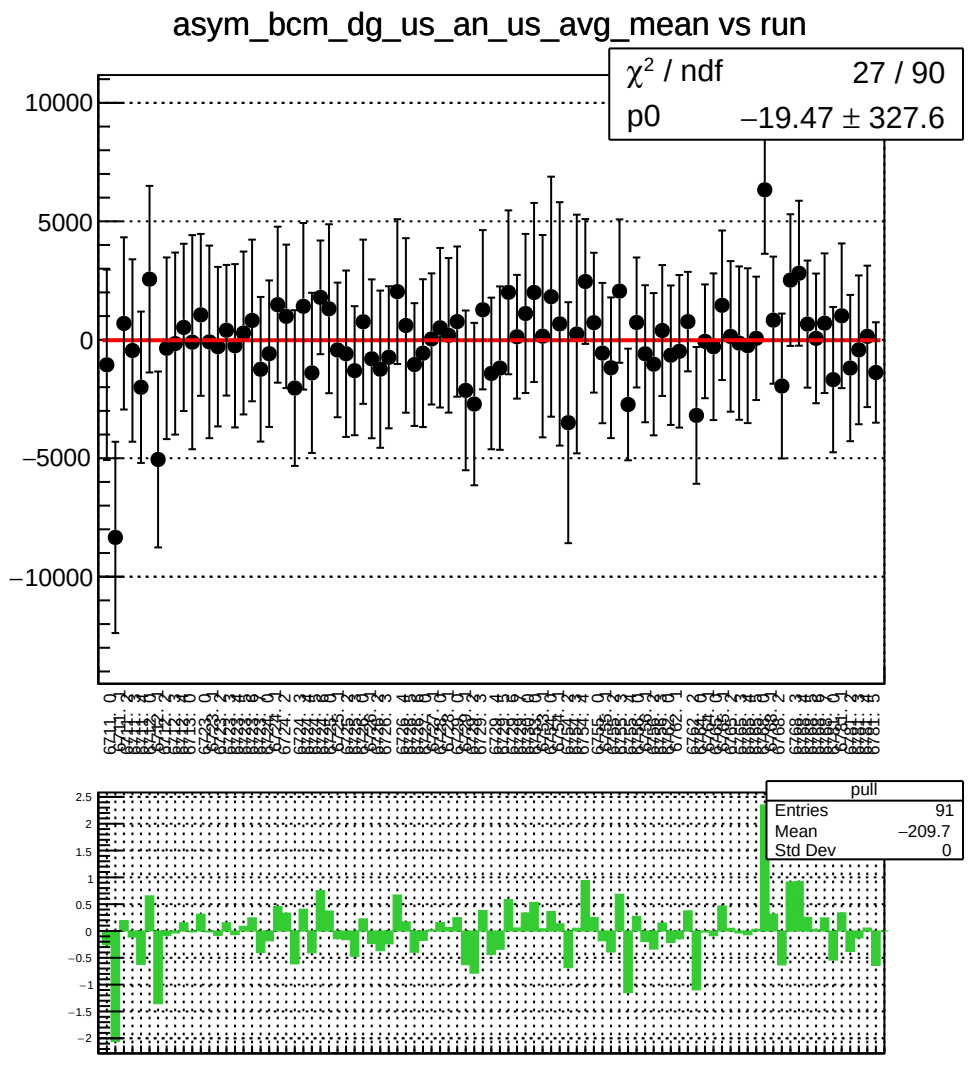

pull1D
Entries 91
Mean −0.004418
Std Dev 0.5545
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

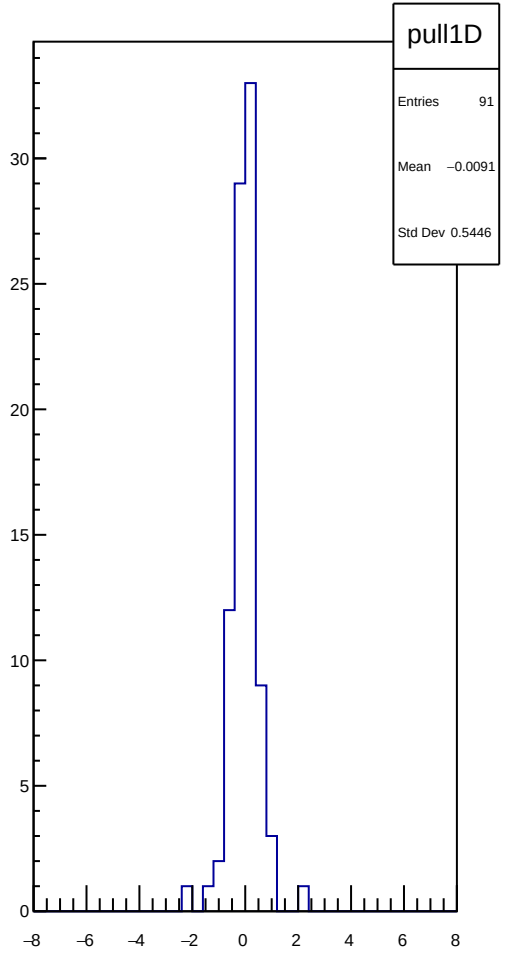

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 3.117e+04 / 90
p0 317.3 ± 0.2383
500
450
400
350
300
250

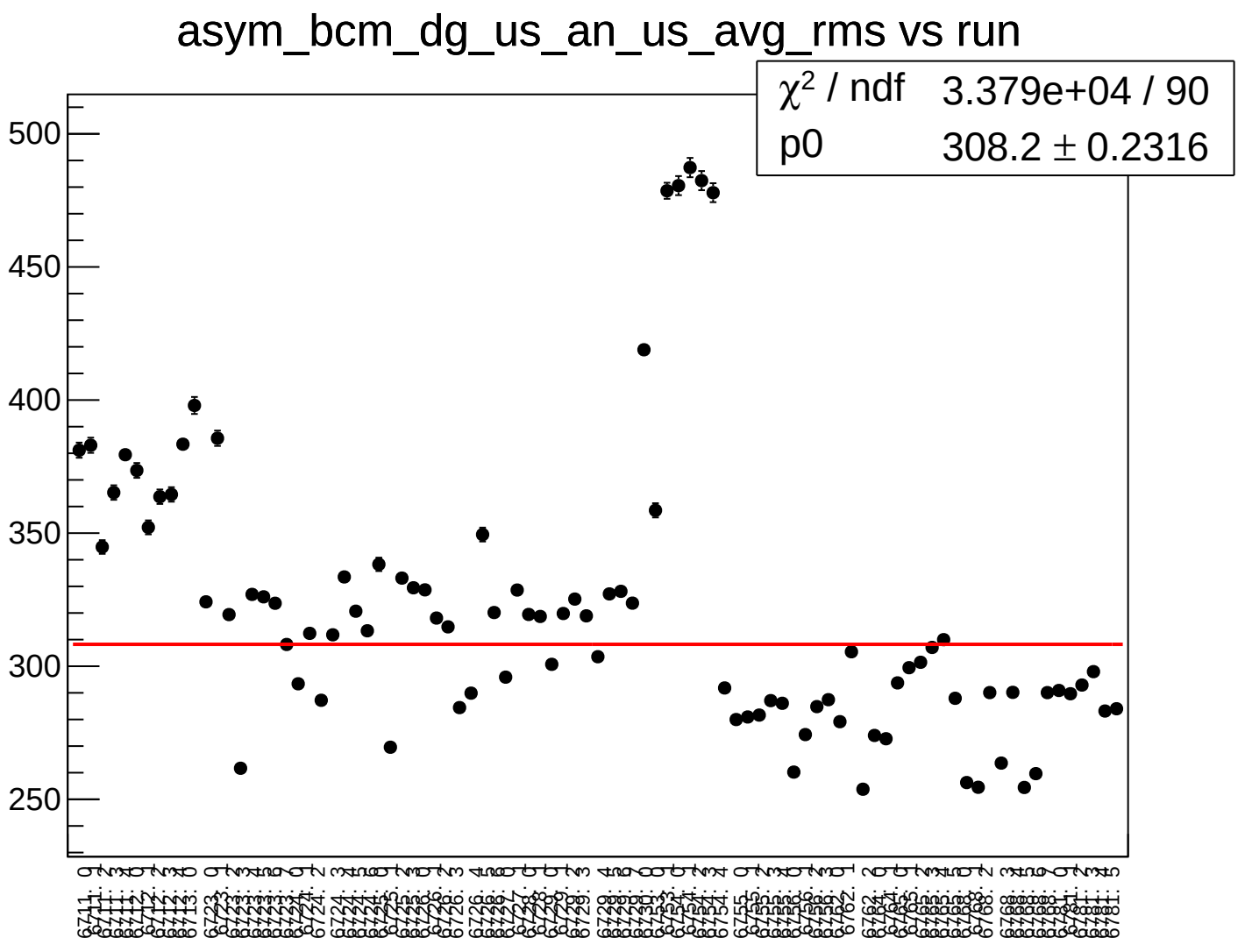

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 83.81 / 90
p0 −43.92 ± 34.74
1000
500
0
−500
−1000
pull
Entries 91
Mean 186.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

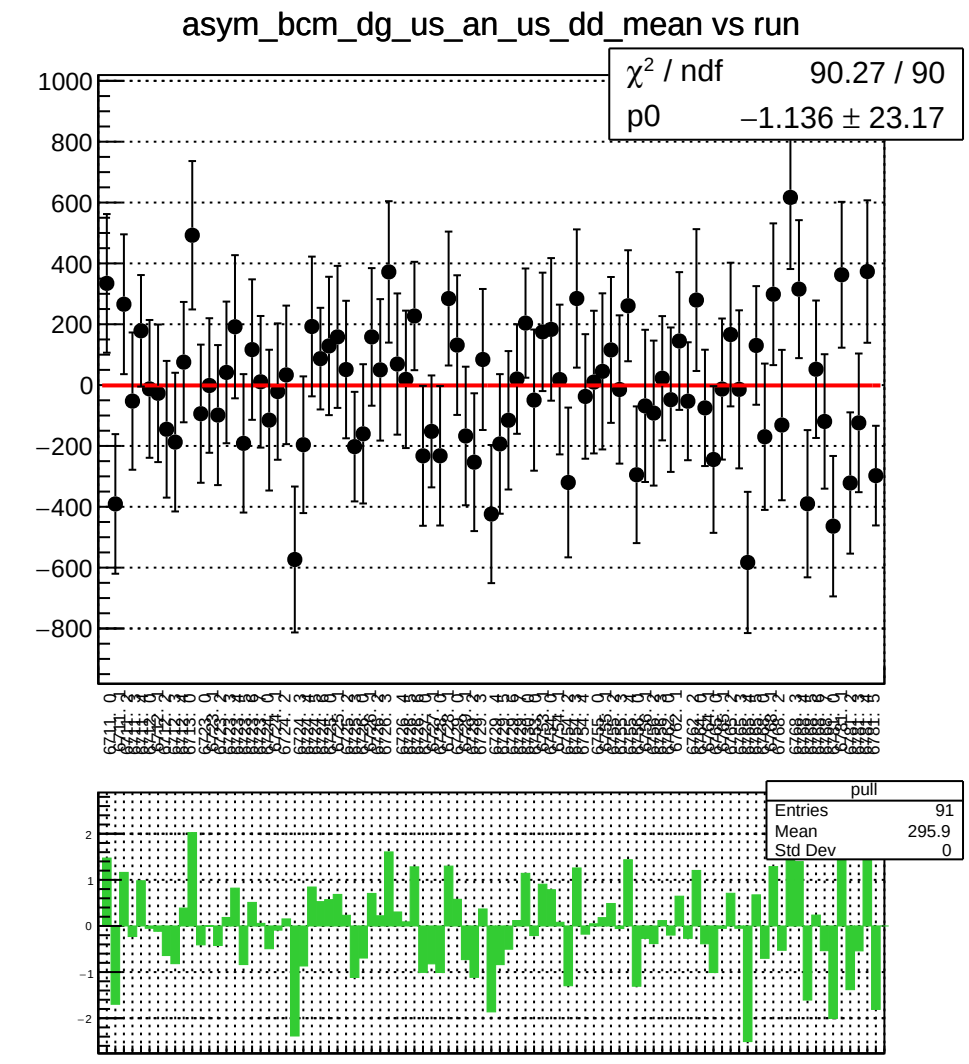

pull1D
Entries 91
Mean 0.01876
Std Dev 0.9595
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

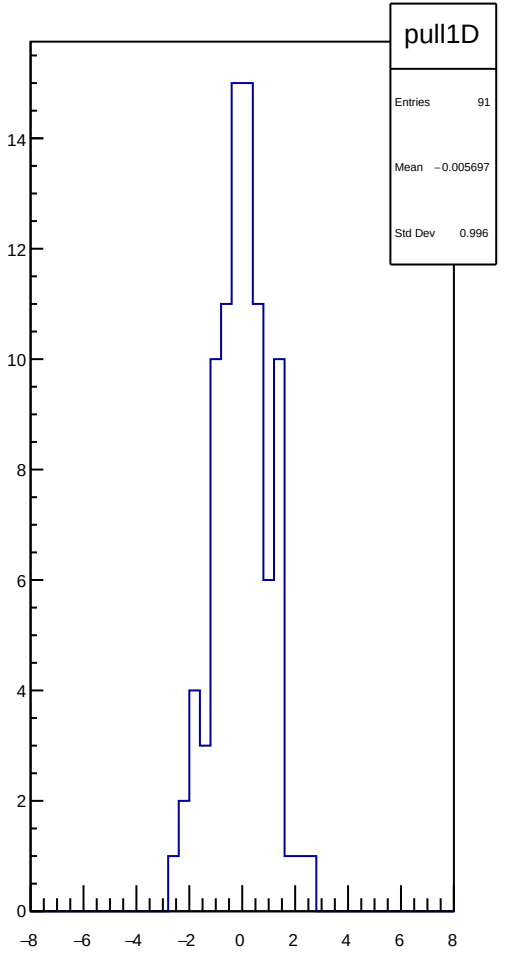

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 4424 / 90
p0 32.96 ± 0.02456
37
36
35
34
33
32
31
30

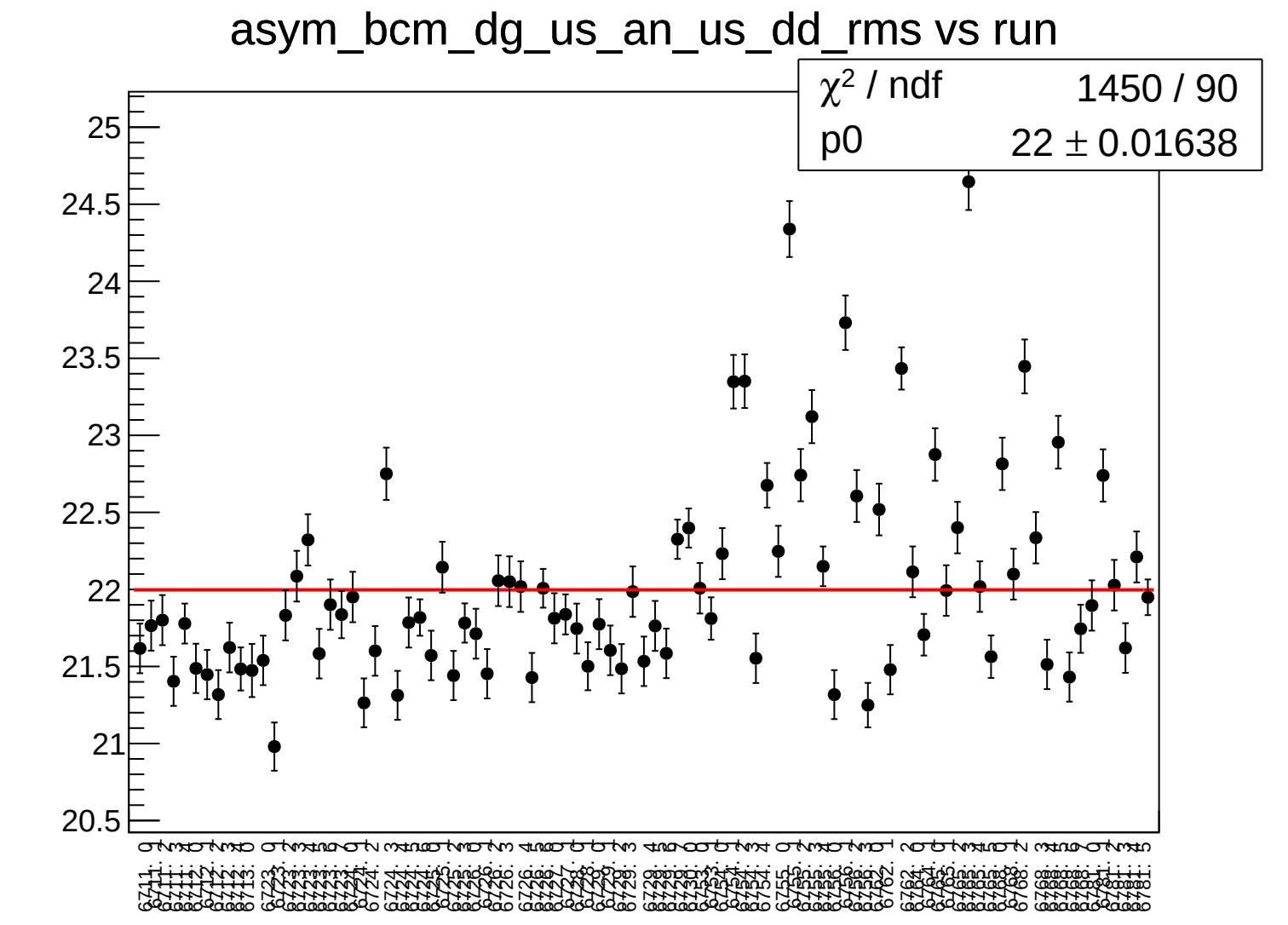

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 27 / 90
p0 −19.47 ± 327.6
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −209.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

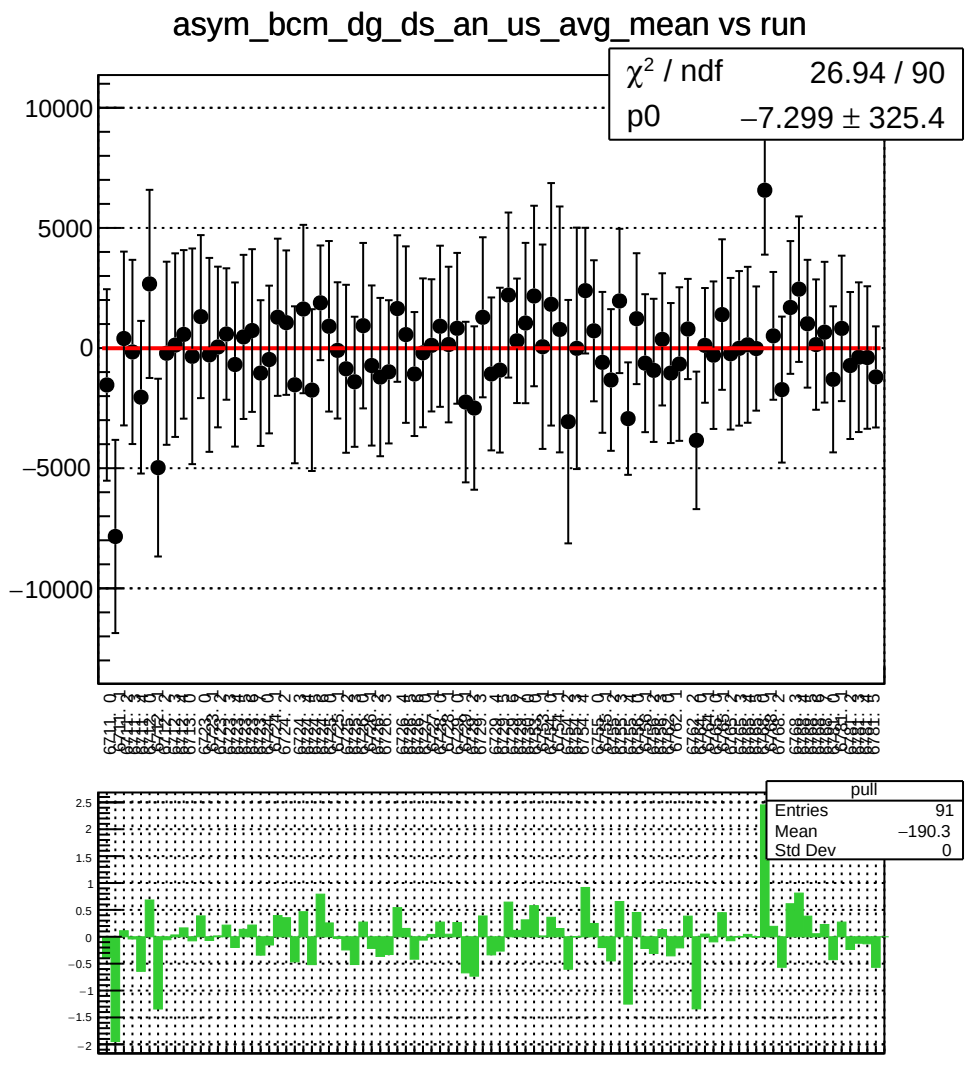

pull1D
Entries 91
Mean −0.0091
Std Dev 0.5446
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

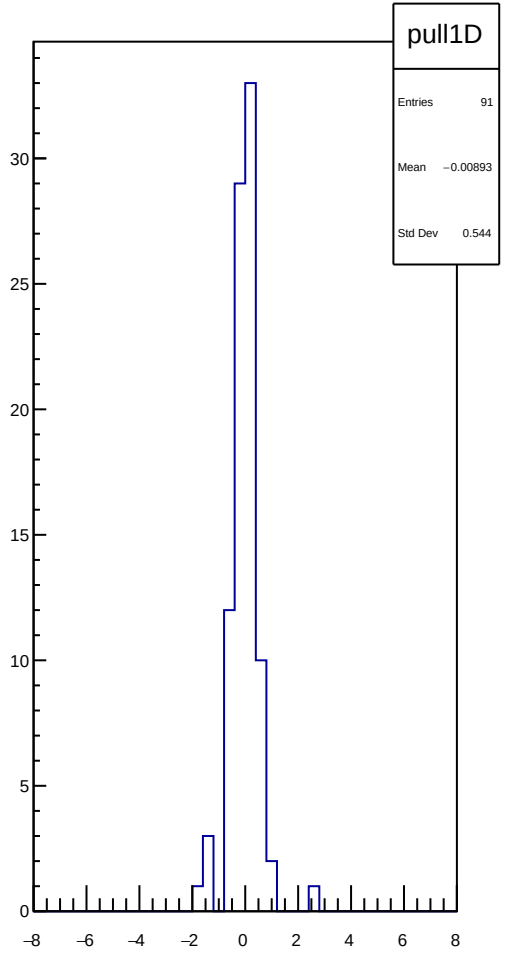

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 3.379e+04 / 90
p0 308.2 ± 0.2316
500
450
400
350
300
250

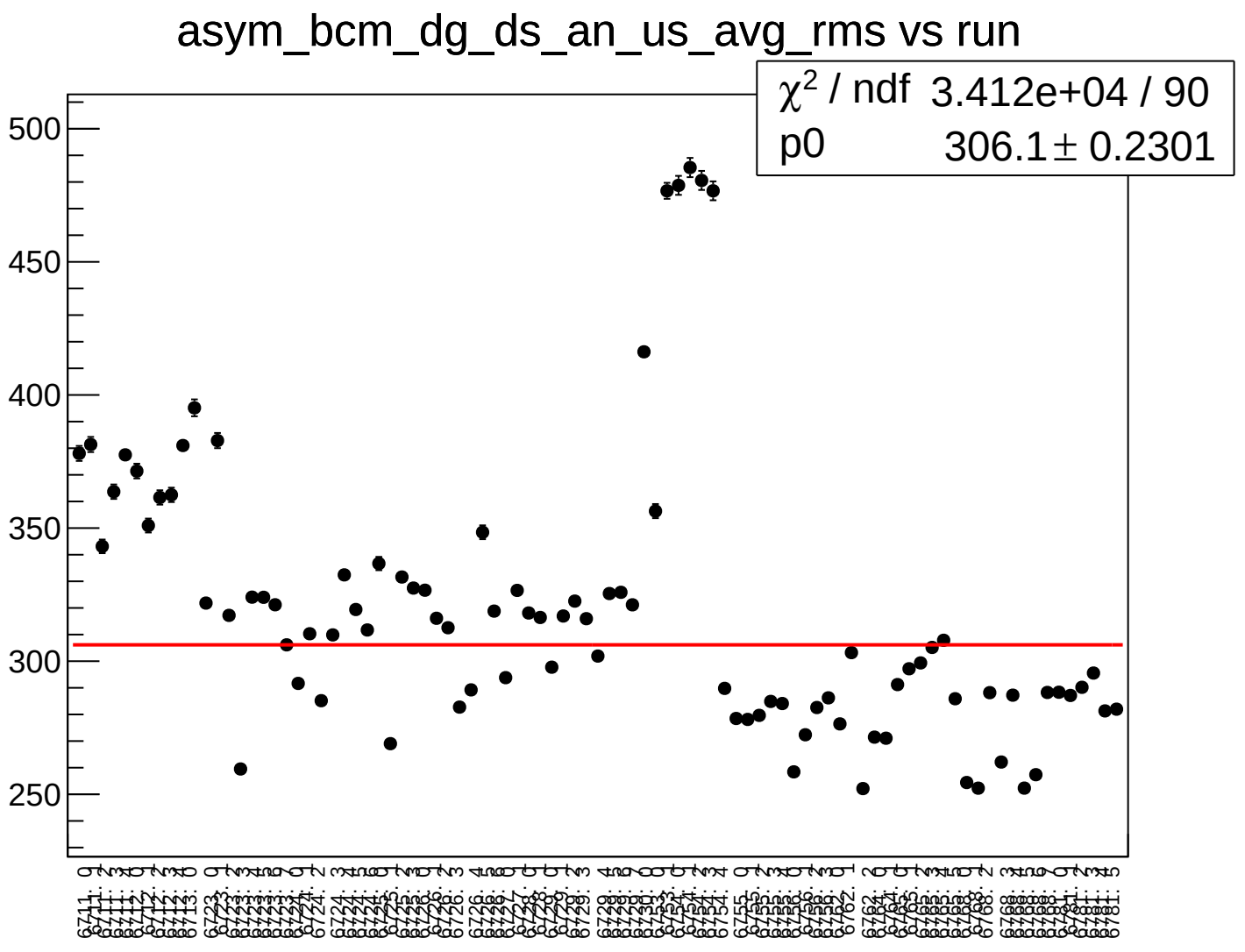

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 90.27 / 90
p0 −1.136 ± 23.17
pull
Entries 91
Mean 295.9
Std Dev 0

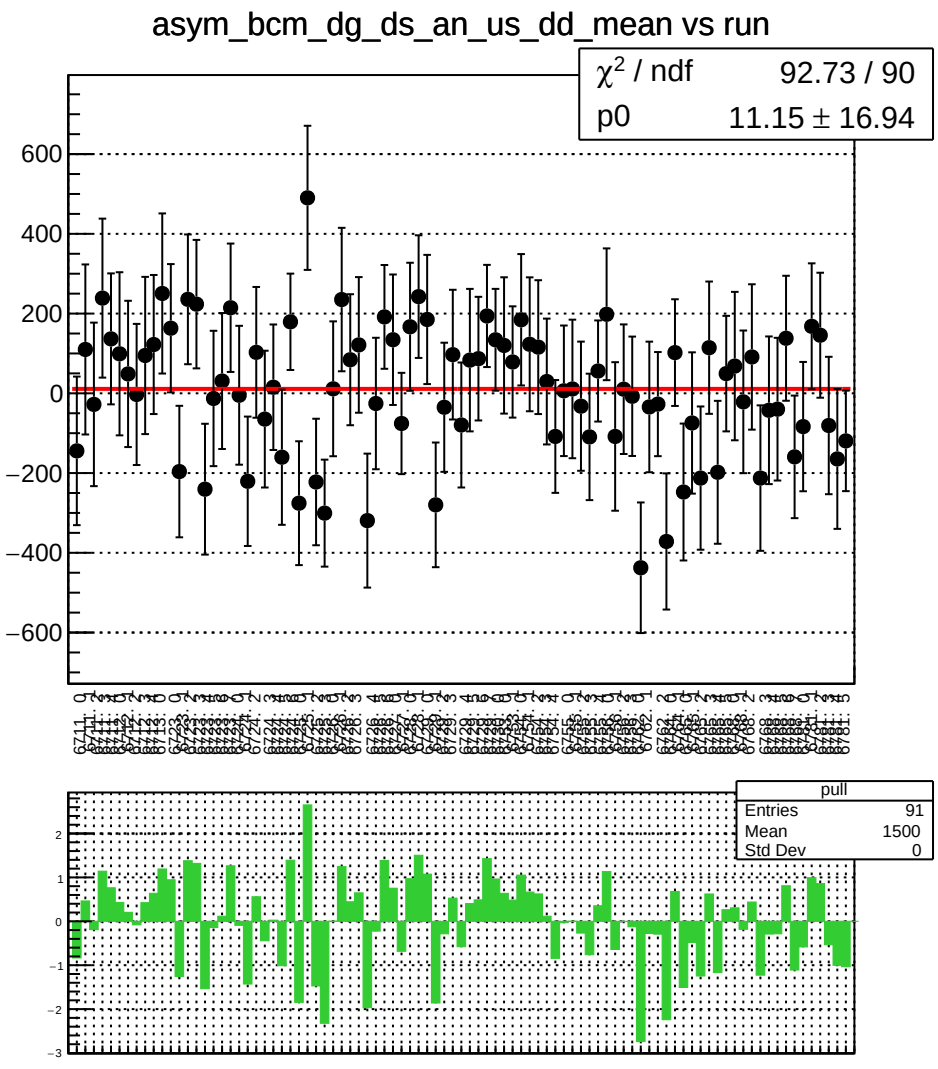

pull1D
Entries 91
Mean −0.005697
Std Dev 0.996

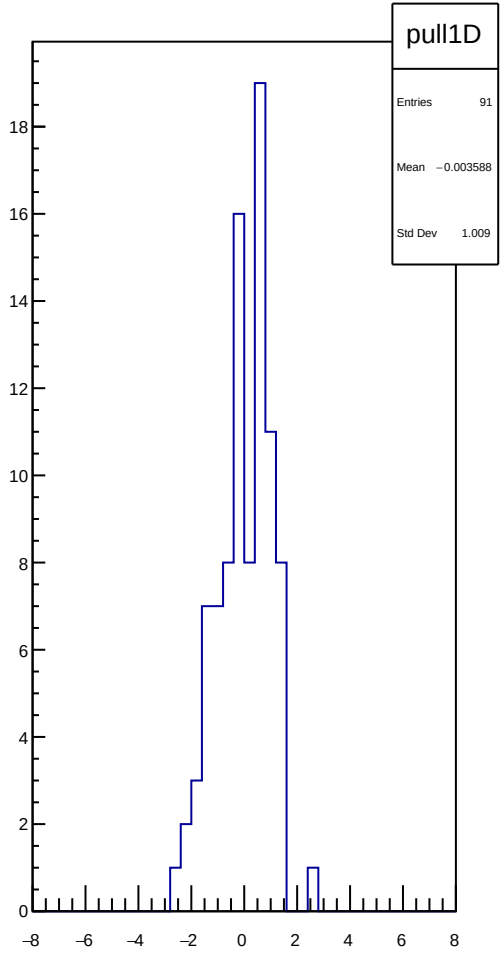

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 1450 / 90
p0 22 ± 0.01638
25
24.5
24
23.5
23
22.5
22
21.5
21
20.5

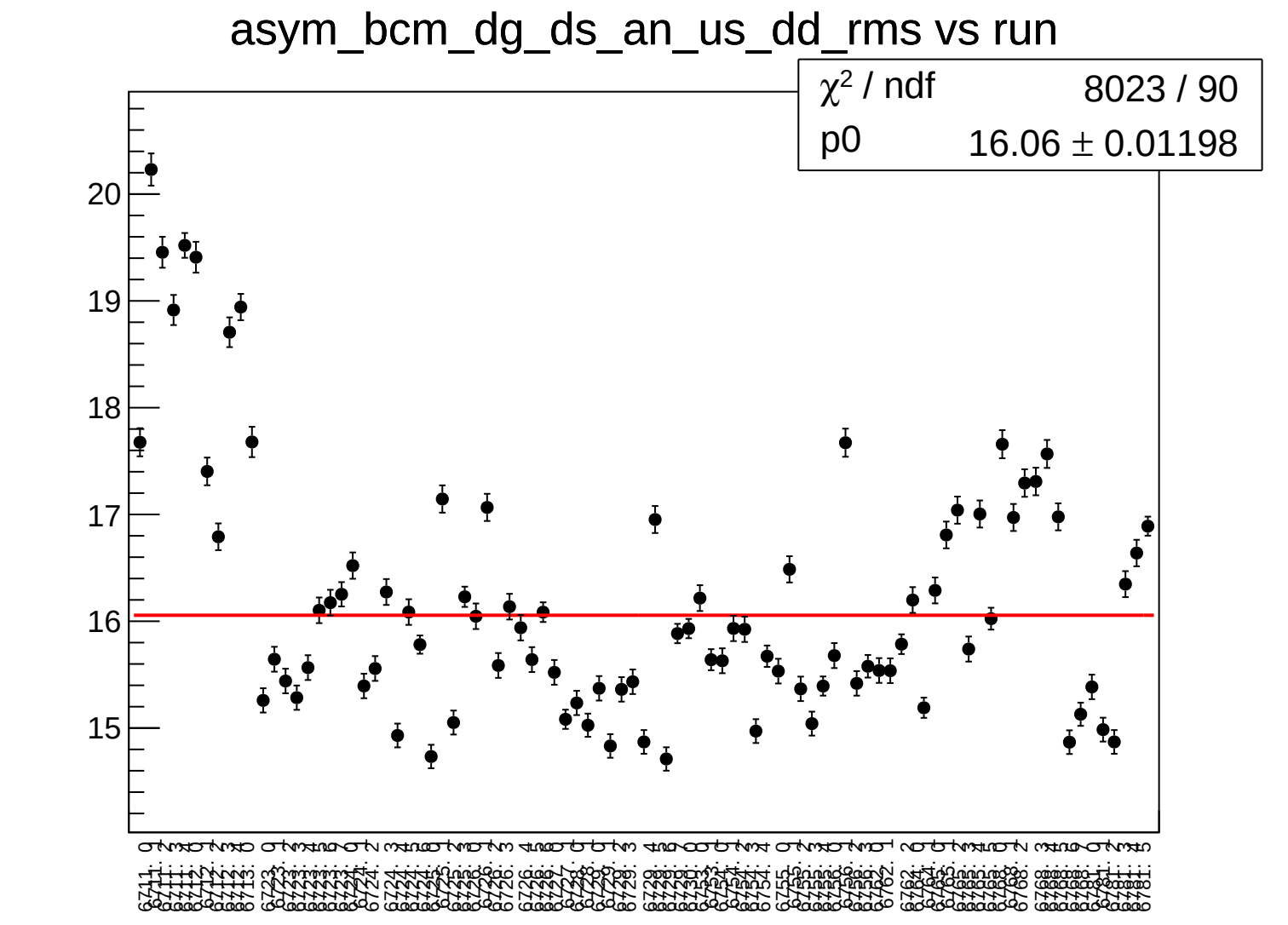

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 26.94 / 90
p0 −7.299 ± 325.4
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −190.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

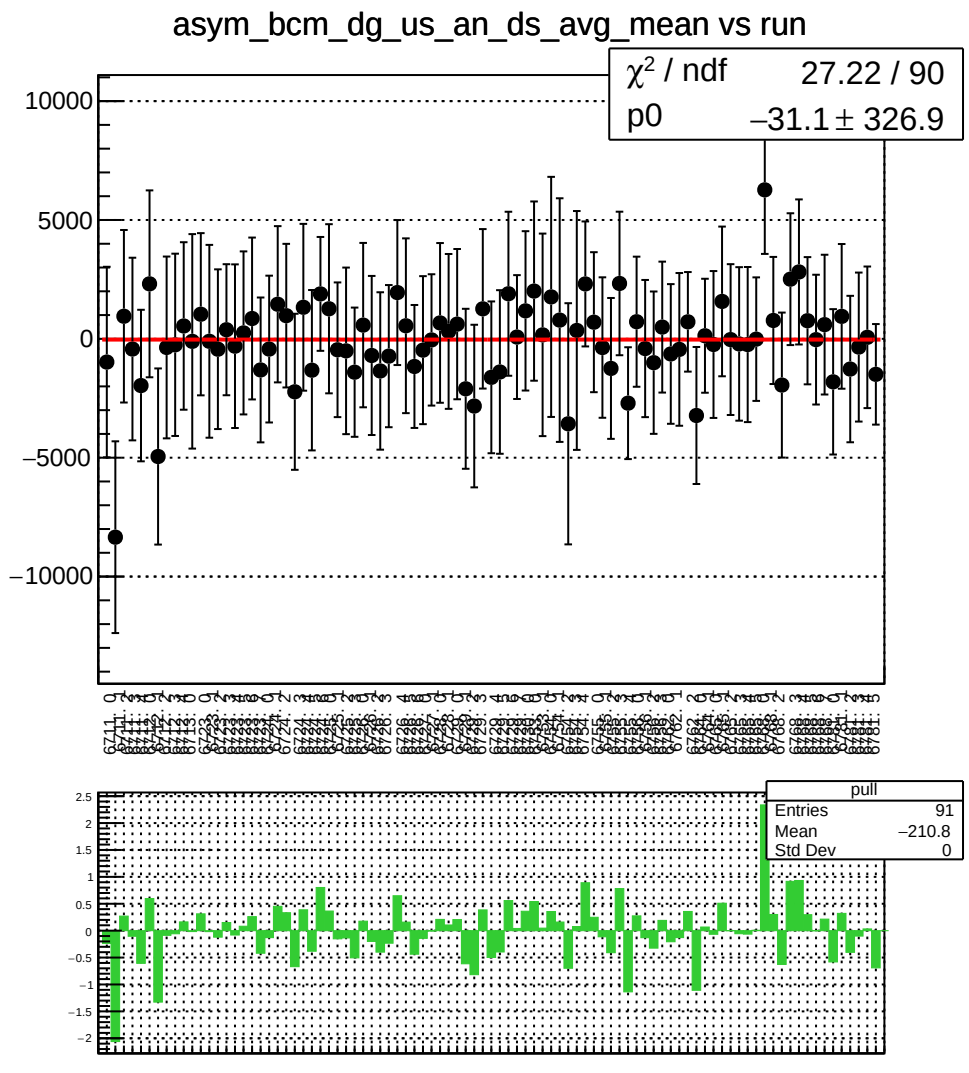

pull1D
Entries 91
Mean −0.00893
Std Dev 0.544
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

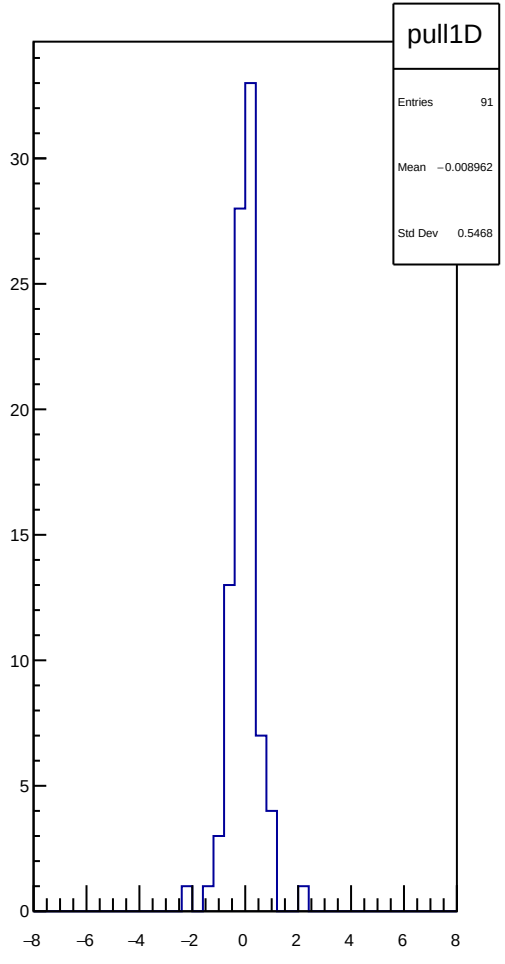

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 3.412e+04 / 90
p0 306.1 ± 0.2301
500
450
400
350
300
250

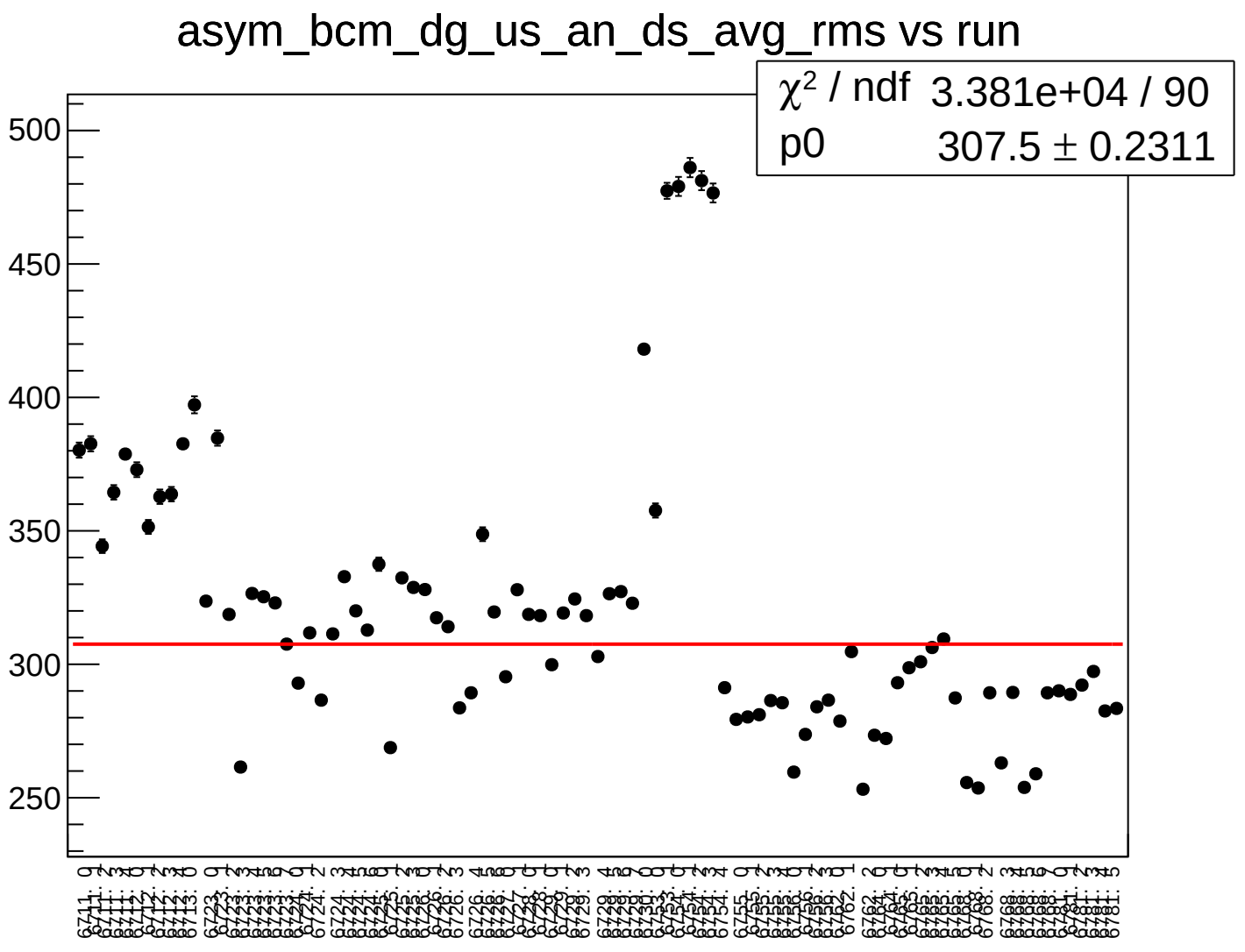

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 92.73 / 90
p0 11.15 ± 16.94
pull
Entries 91
Mean 1500
Std Dev 0

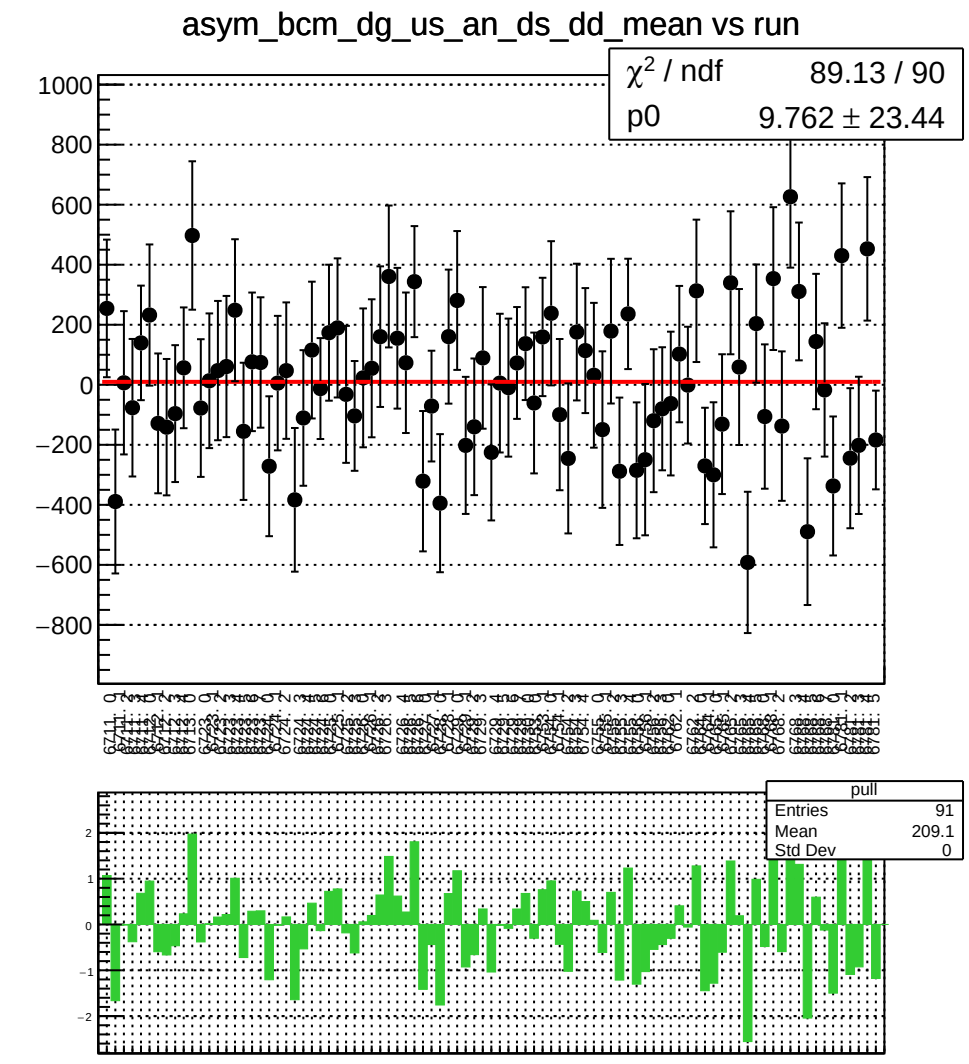

pull1D
Entries 91
Mean −0.003588
Std Dev 1.009

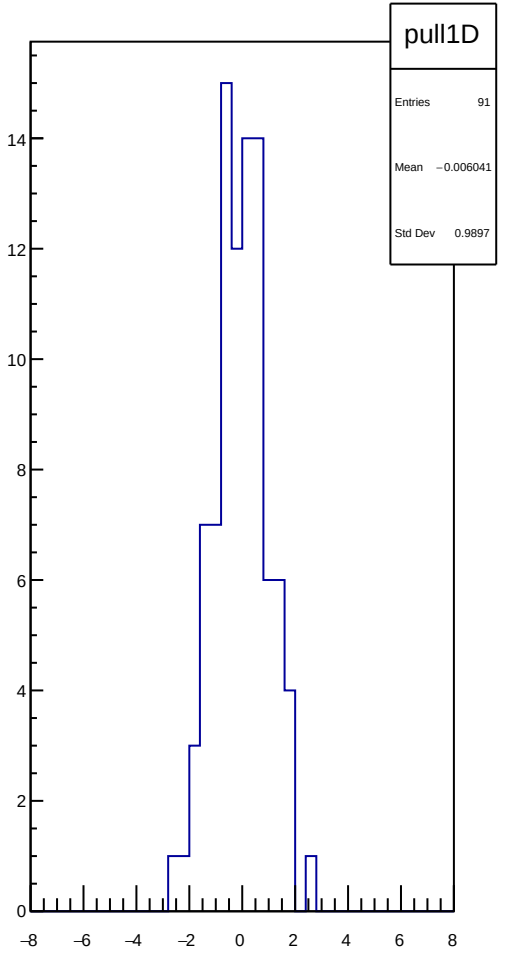

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 8023 / 90
p0 16.06 ± 0.01198
20
19
18
17
16
15

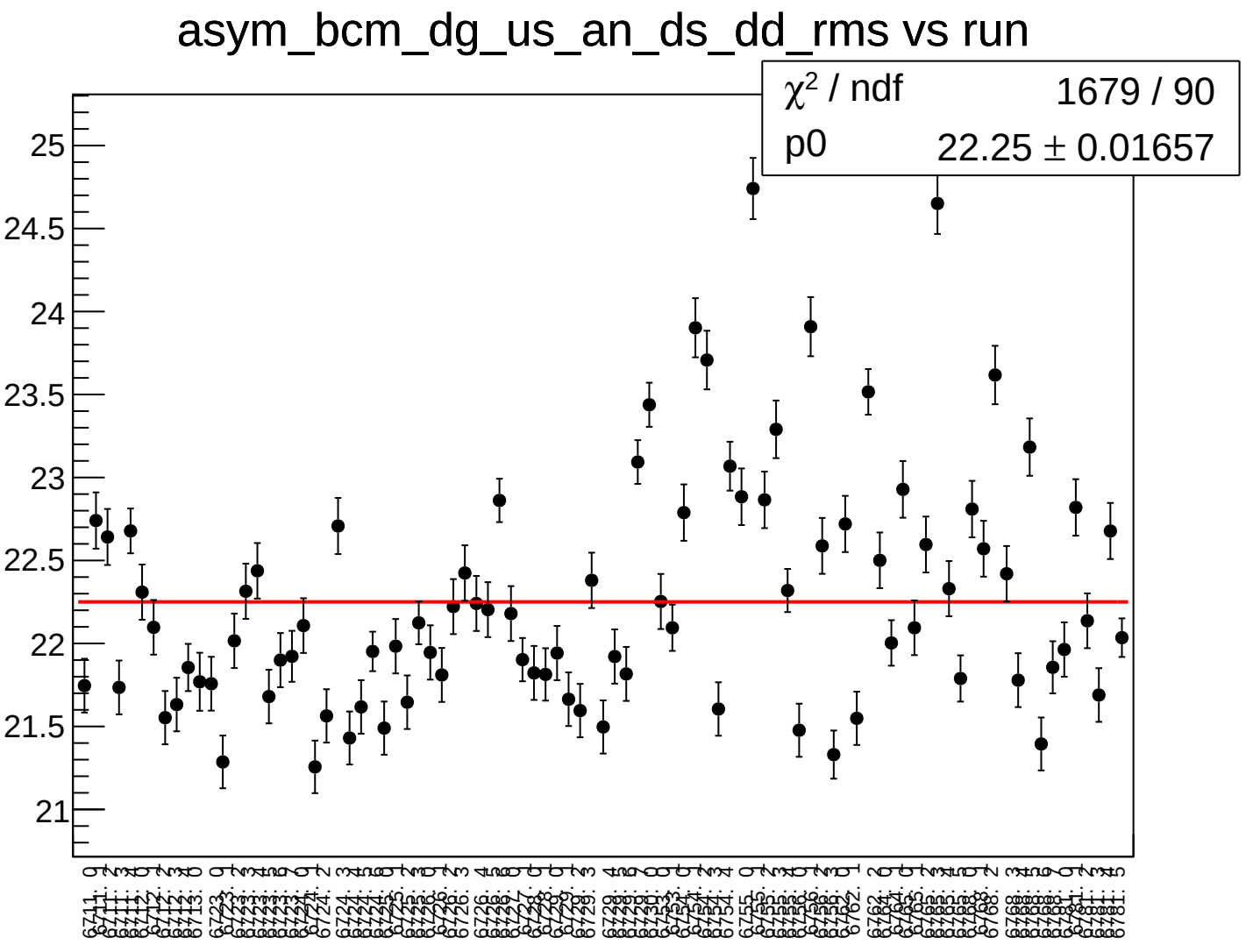

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 27.22 / 90
p0 −31.1 ± 326.9
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −210.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

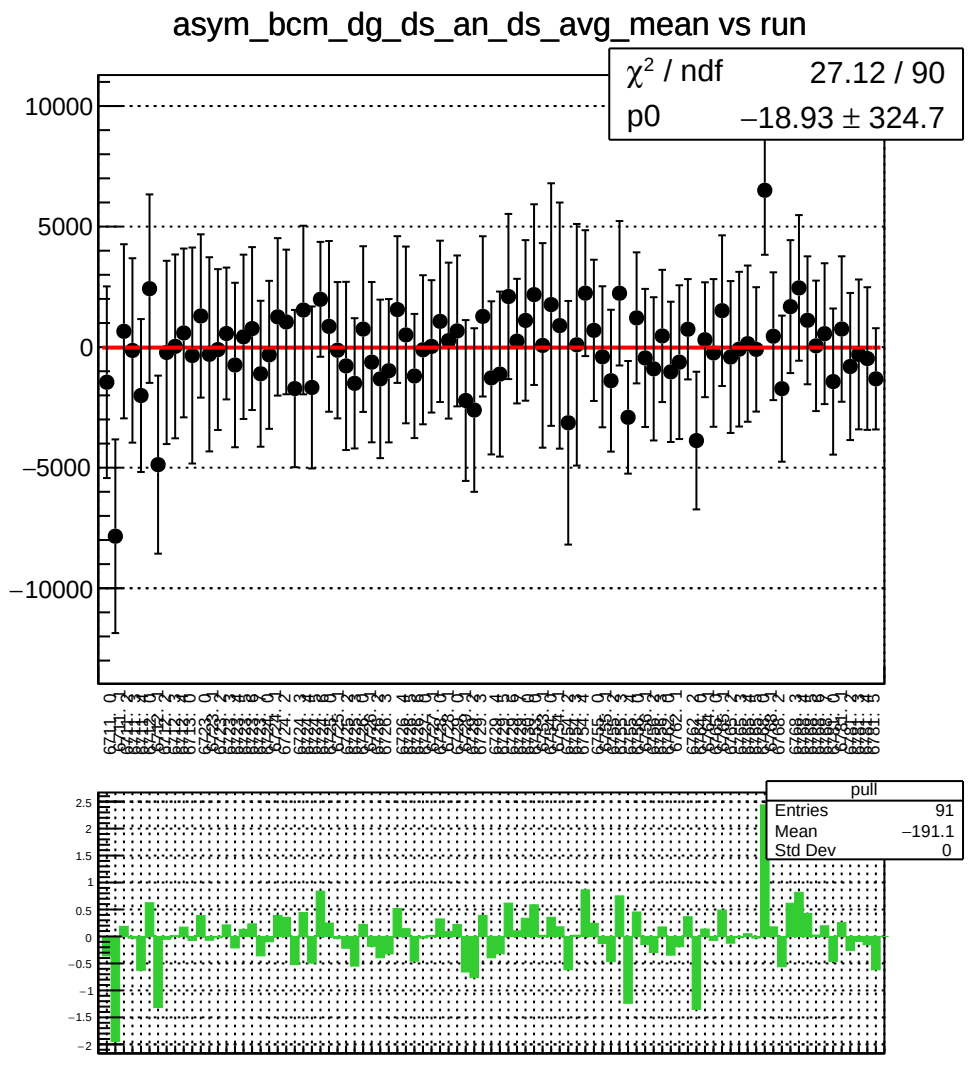

pull1D
Entries 91
Mean −0.008962
Std Dev 0.5468
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

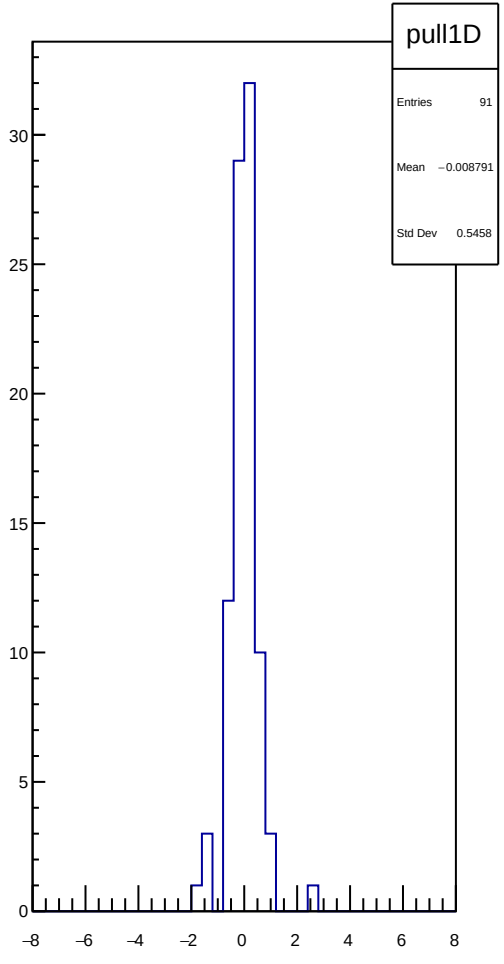

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 3.381e+04 / 90
p0 307.5 ± 0.2311
500
450
400
350
300
250

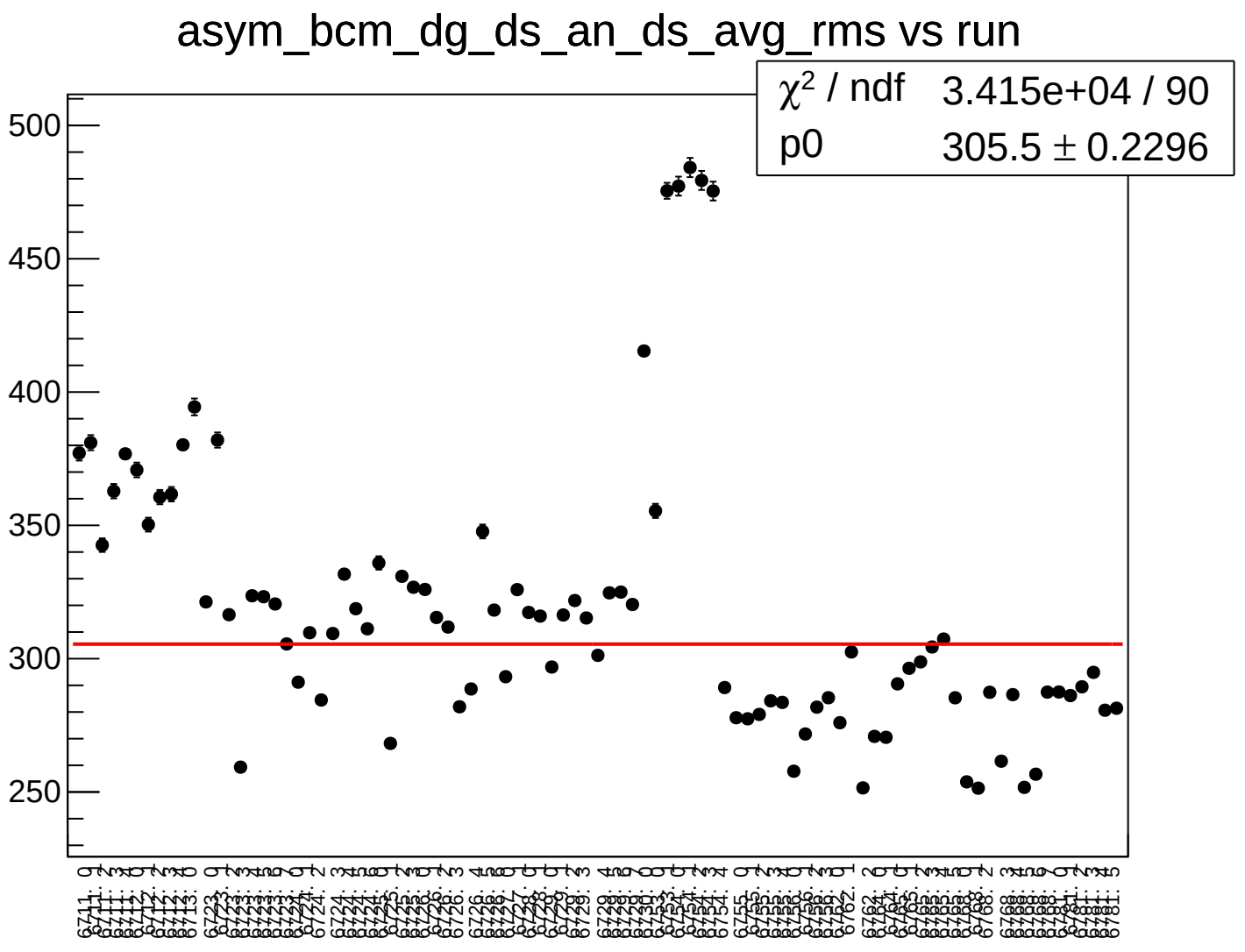

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 89.13 / 90
p0 9.762 ± 23.44
pull
Entries 91
Mean 209.1
Std Dev 0

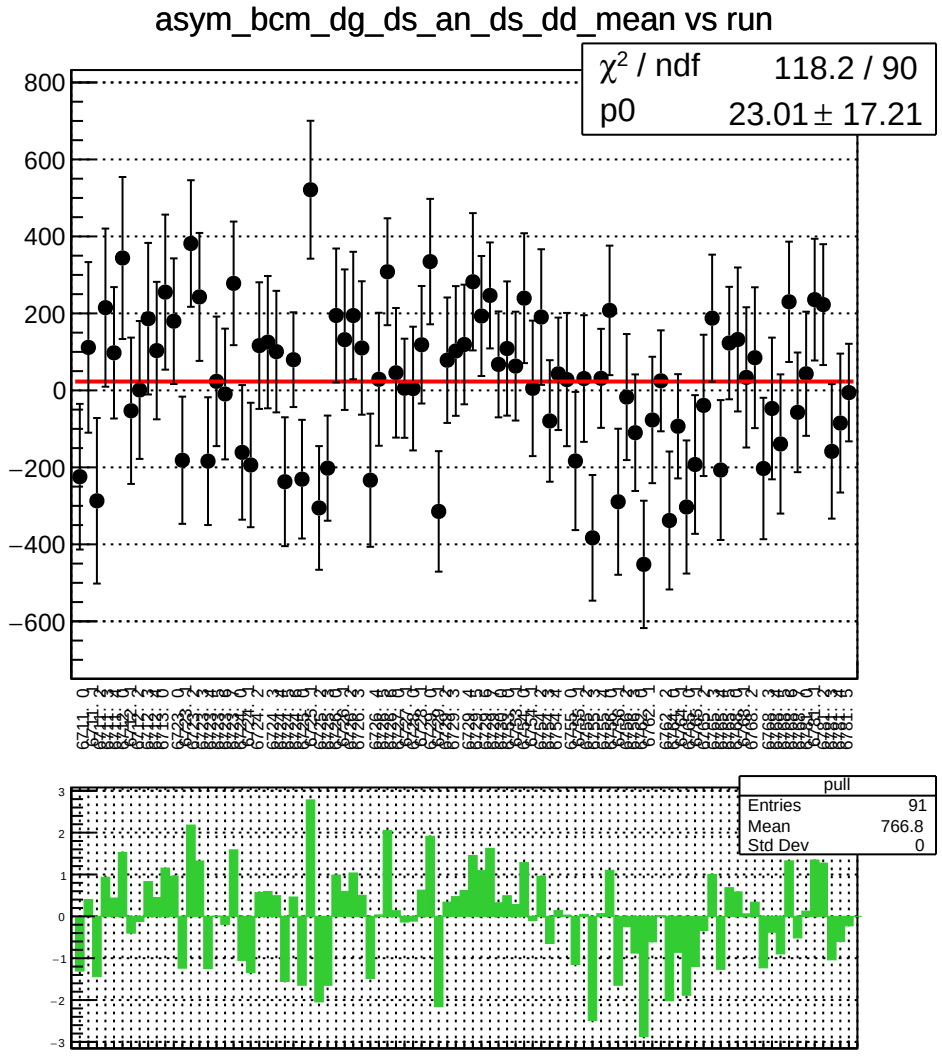

pull1D
Entries 91
Mean −0.006041
Std Dev 0.9897

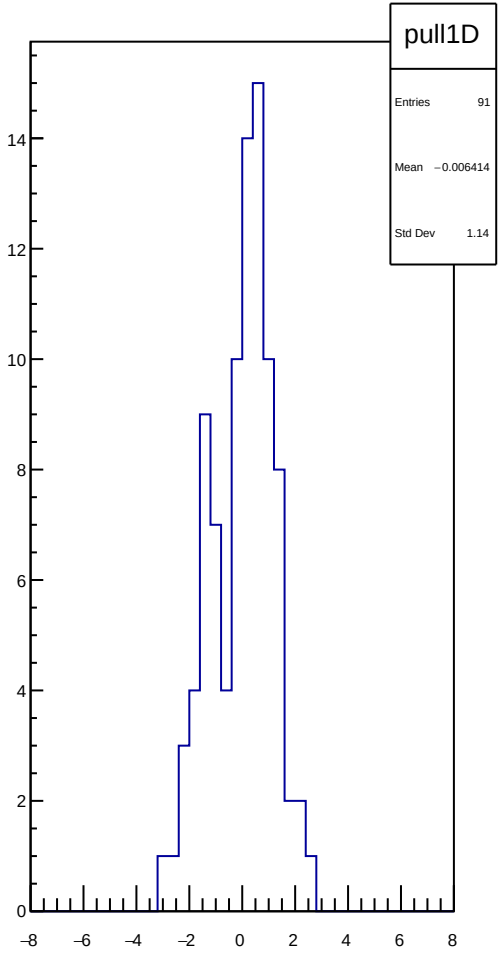

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 1679 / 90
p0 22.25 ± 0.01657
25
24.5
24
23.5
23
22.5
22
21.5
21

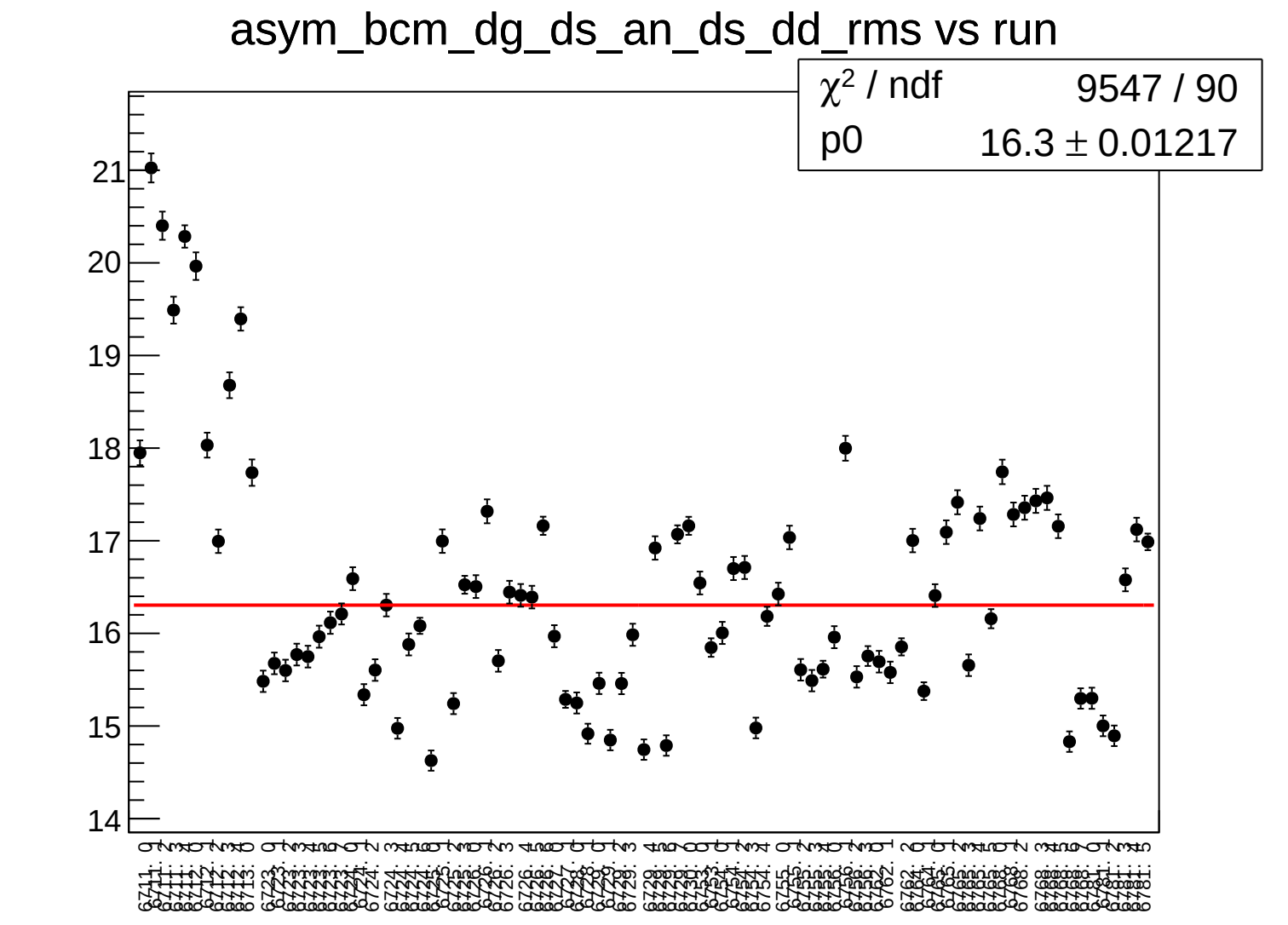

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 27.12 / 90
p0 −18.93 ± 324.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −191.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

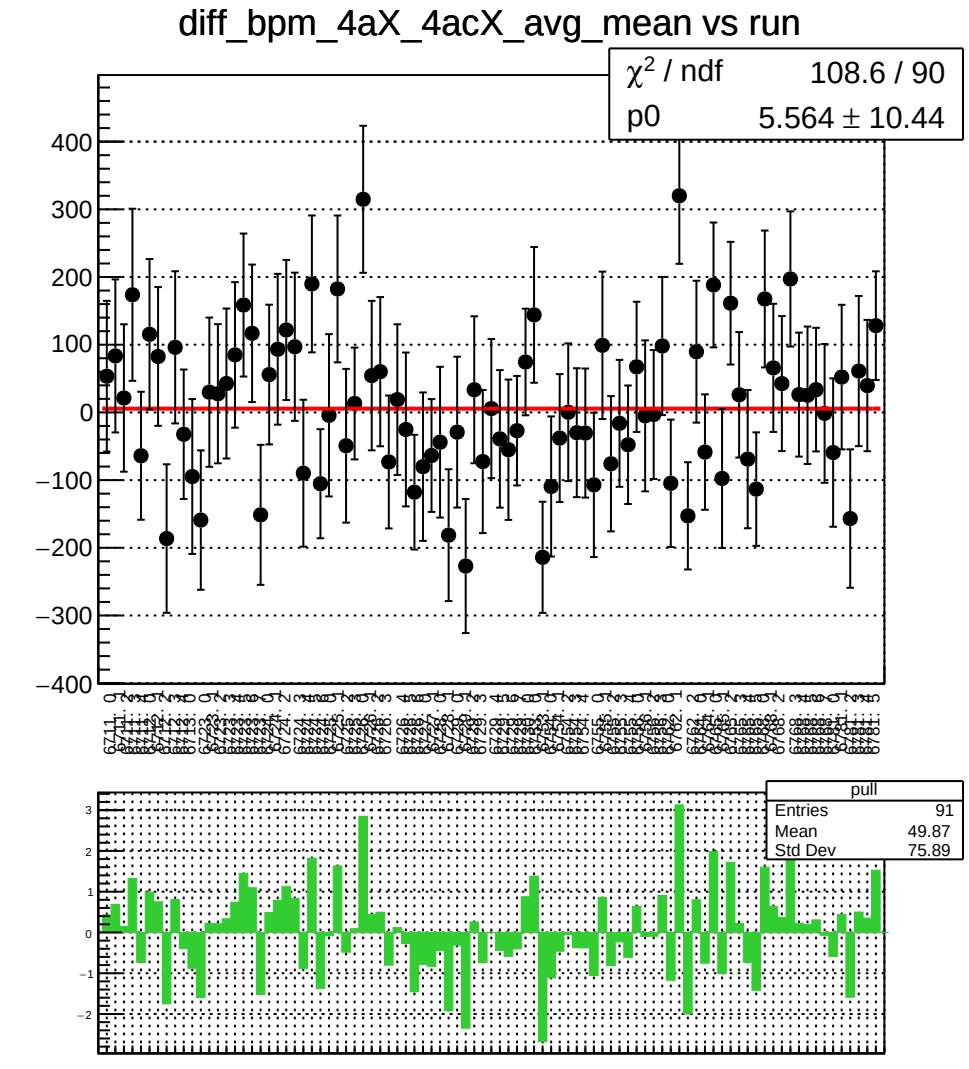

pull1D
Entries 91
Mean −0.008791
Std Dev 0.5458
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

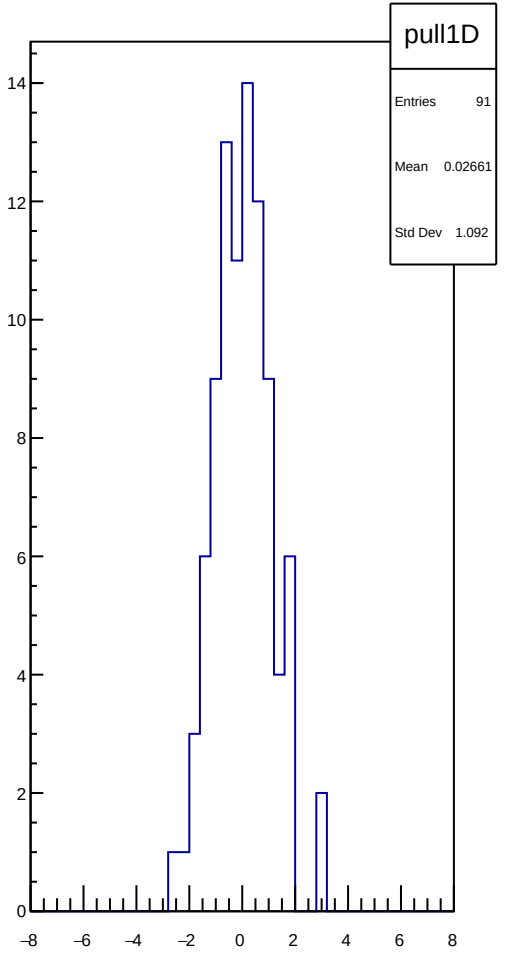

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 3.415e+04 / 90
p0 305.5 ± 0.2296
500
450
400
350
300
250

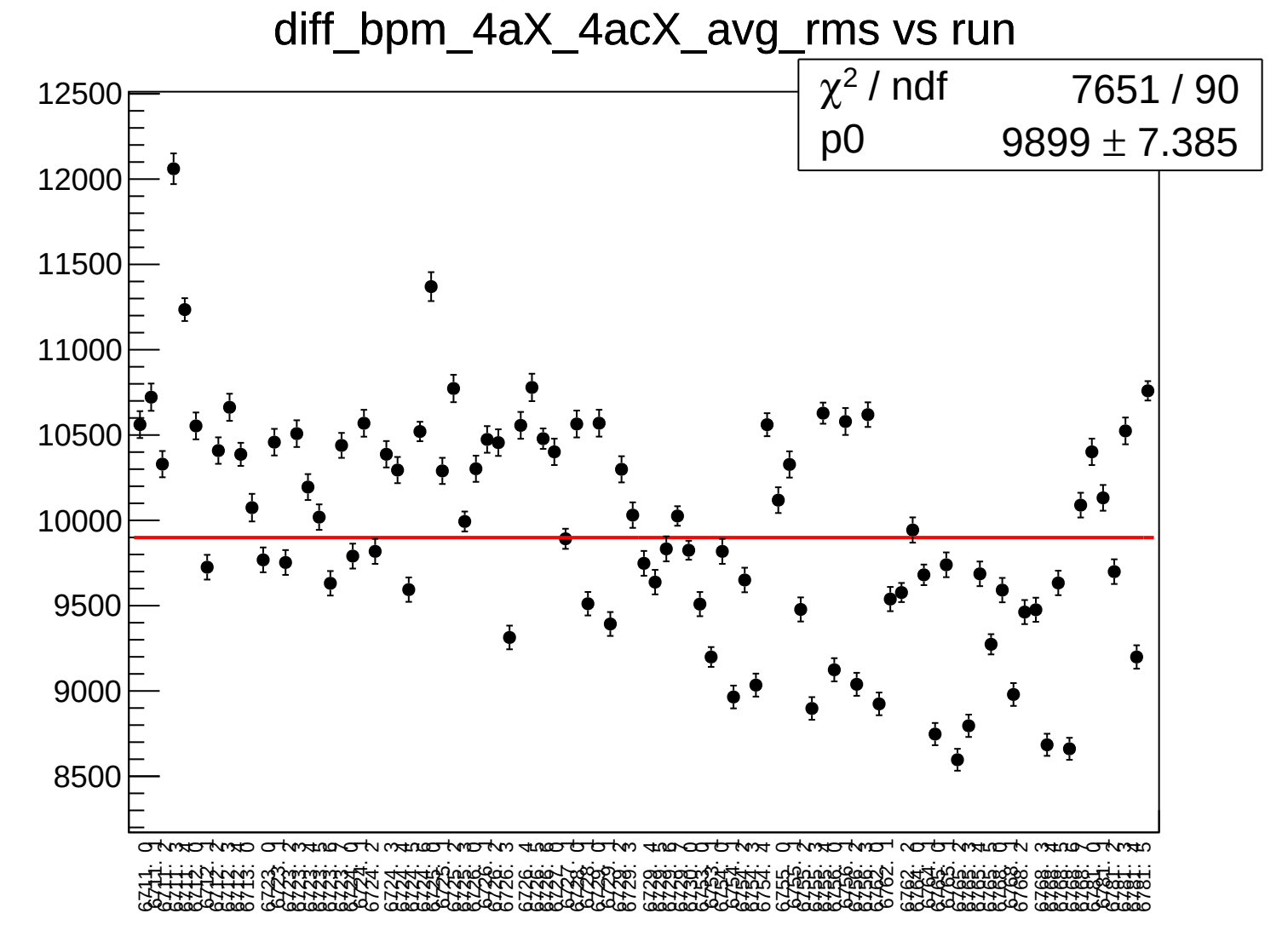

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 118.2 / 90
p0 23.01 ± 17.21
pull
Entries 91
Mean 766.8
Std Dev 0

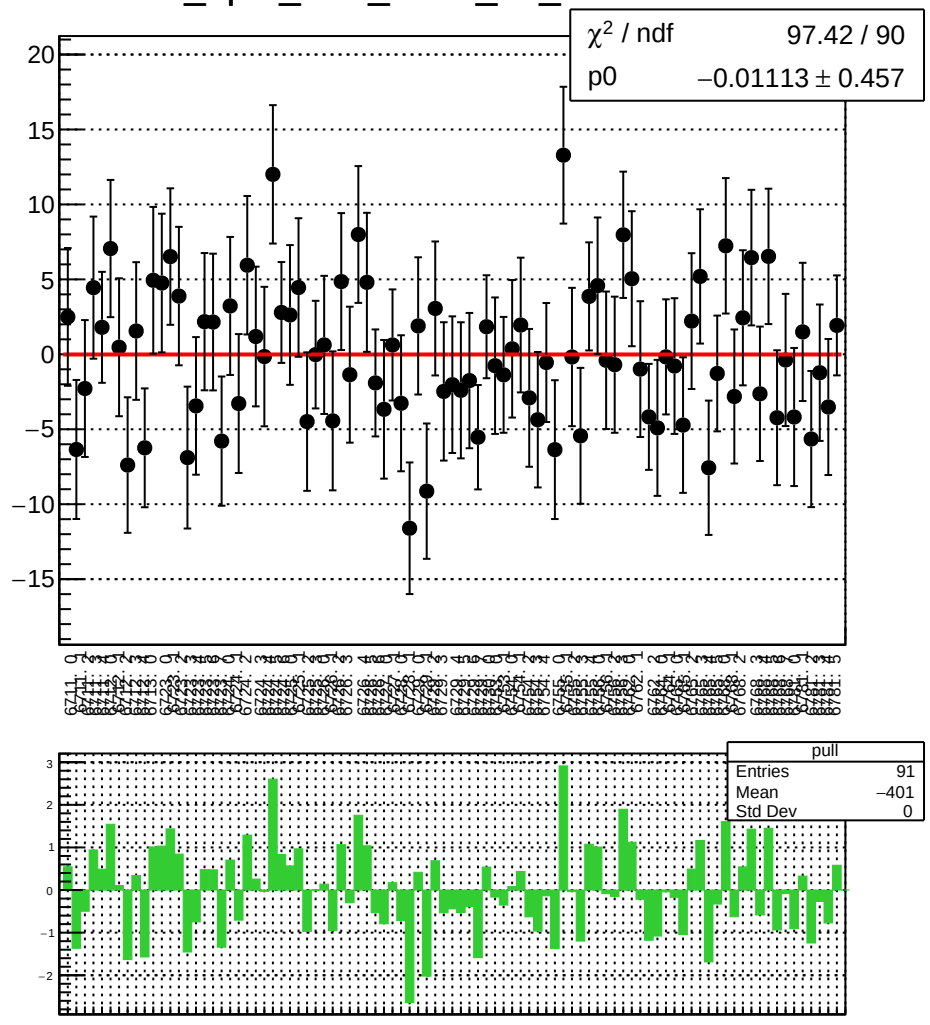

pull1D
Entries 91
Mean −0.006414
Std Dev 1.14

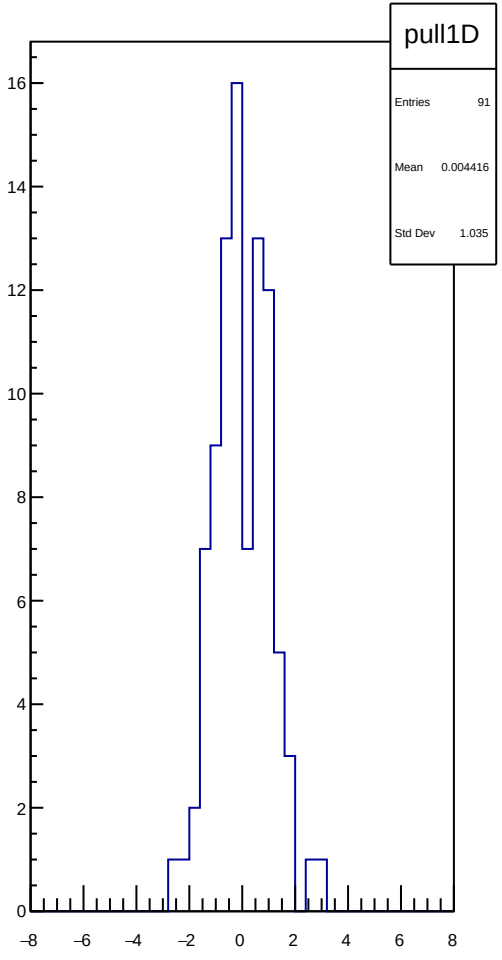

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 9547 / 90
p0 16.3 ± 0.01217
21
20
19
18
17
16
15
14

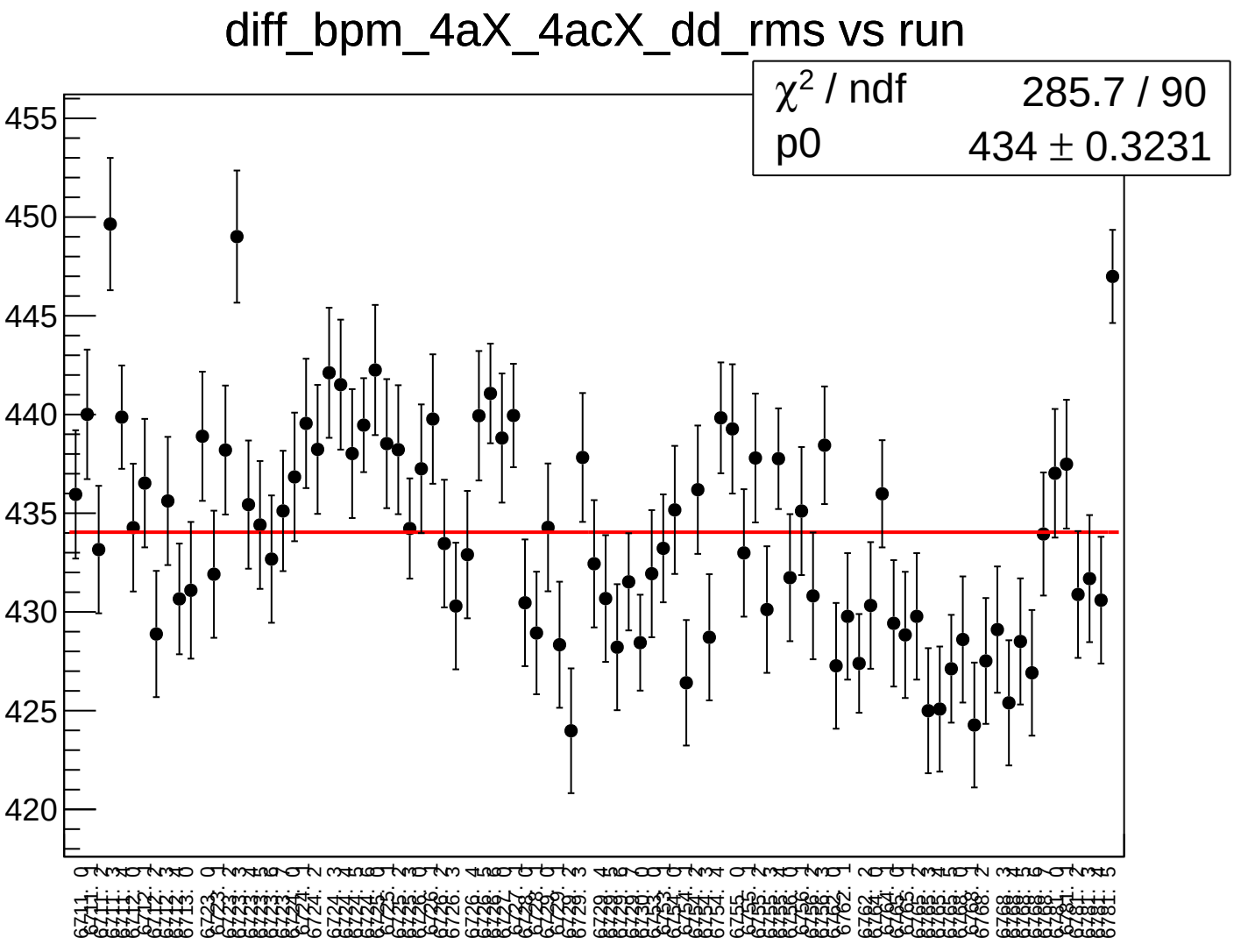

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 108.6 / 90
p0 5.564 ± 10.44
pull
Entries 91
Mean 49.87
Std Dev 75.89

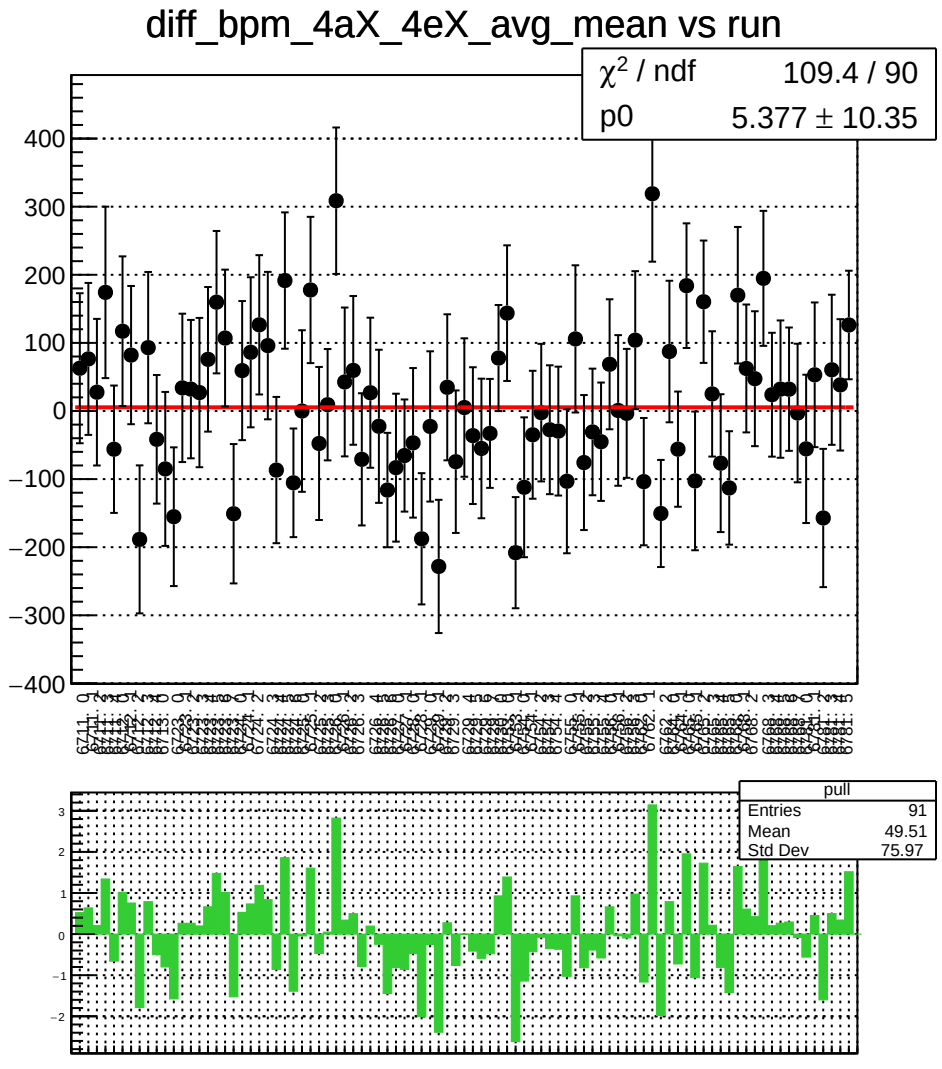

pull1D
Entries 91
Mean 0.02661
Std Dev 1.092

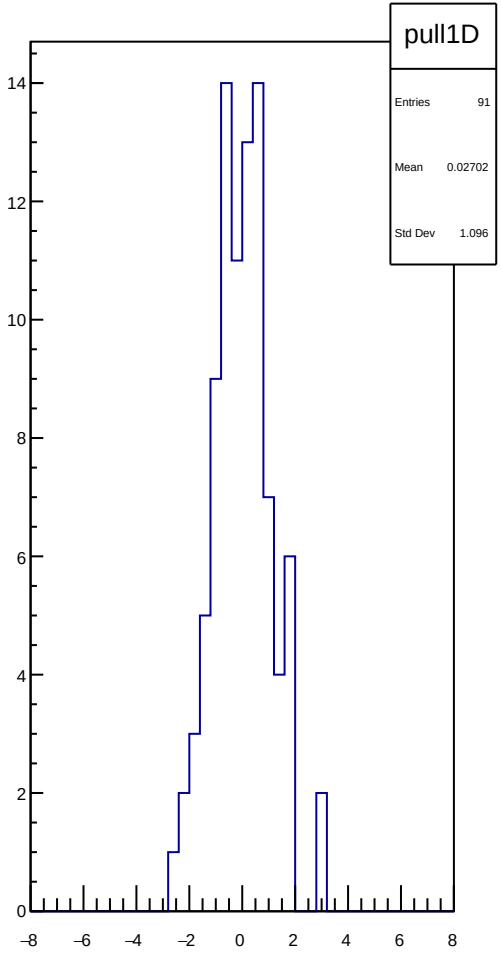

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 7651 / 90
p0 9899 ± 7.385
12500
12000
11500
11000
10500
10000
9500
9000
8500

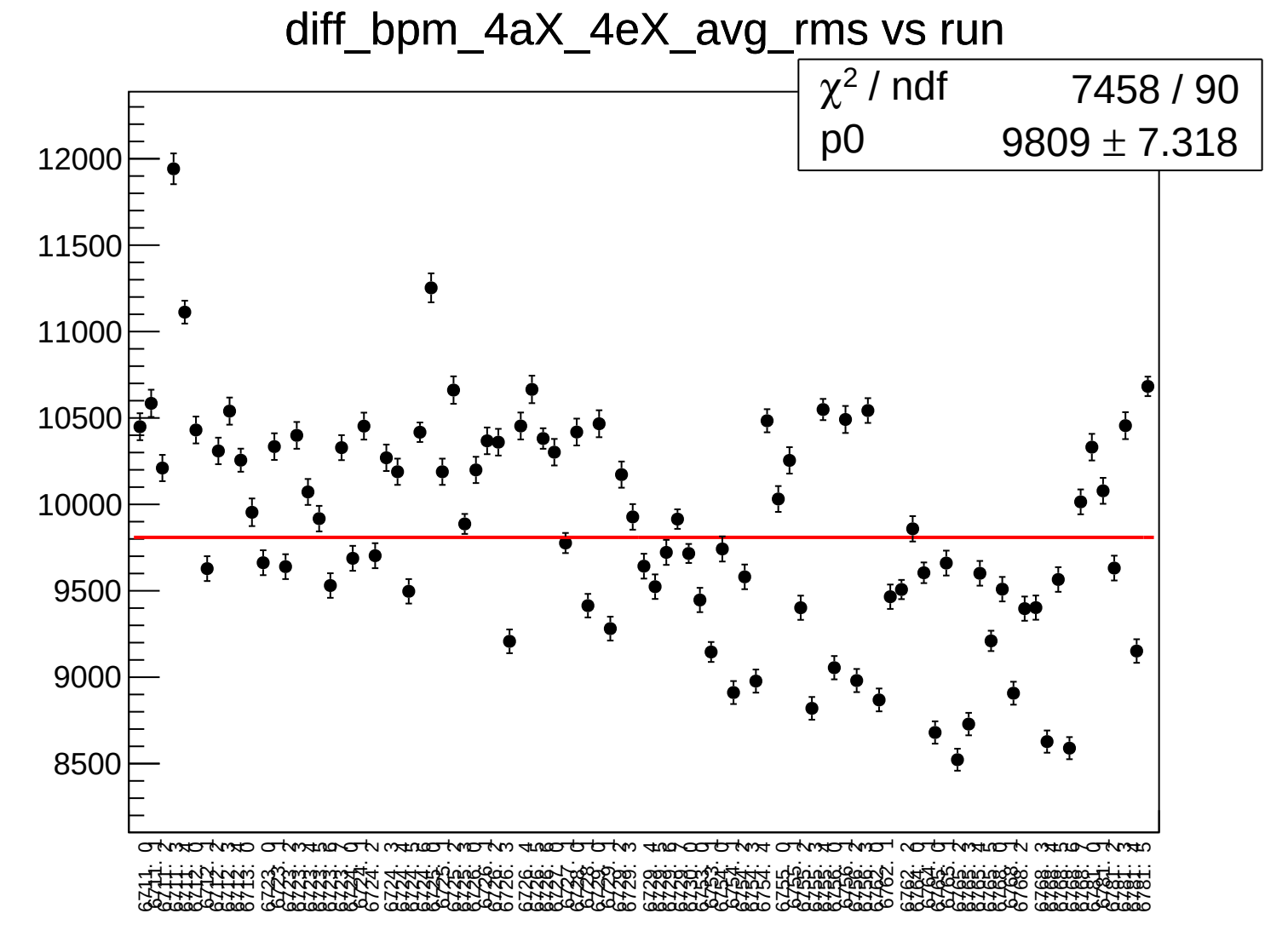

diff_bpm_4aX_4acX_dd_mean vs run
χ^2 / ndf 97.42 / 90
p0 −0.01113 ± 0.457
pull
Entries 91
Mean −401
Std Dev 0

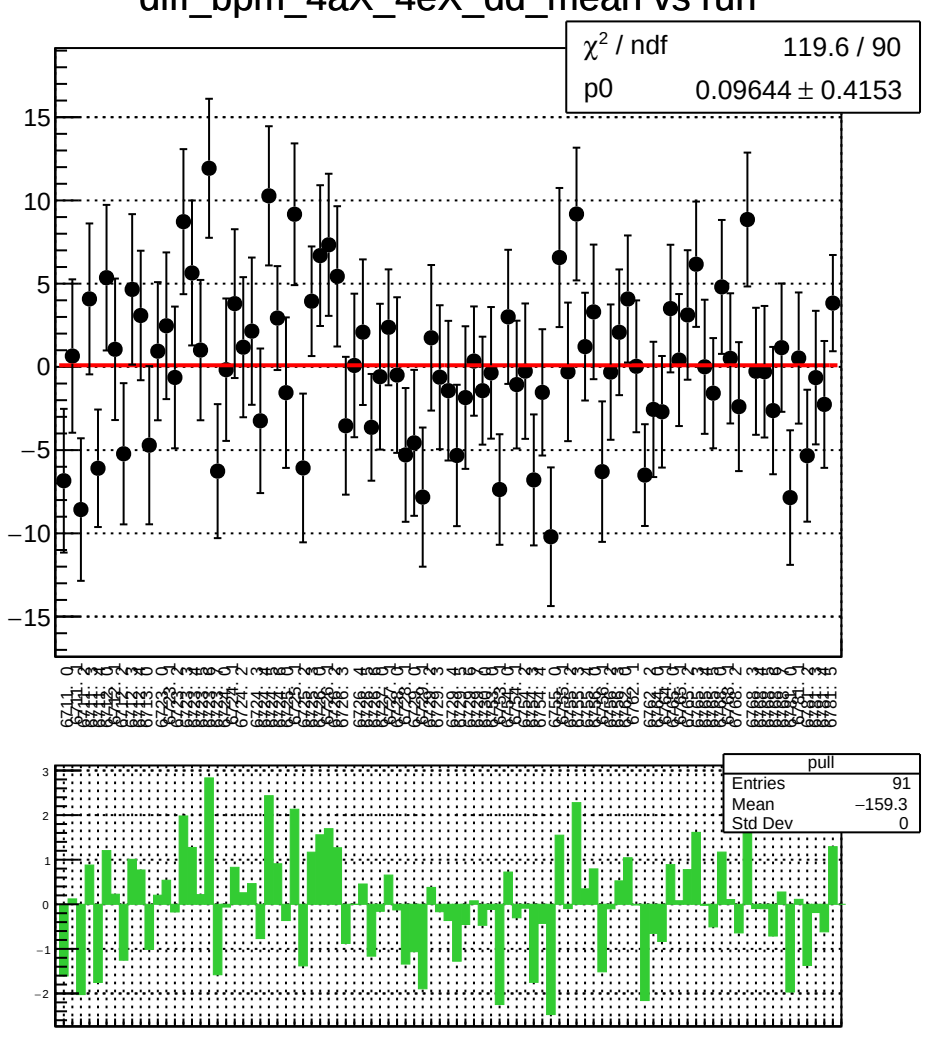

pull1D
Entries 91
Mean 0.004416
Std Dev 1.035

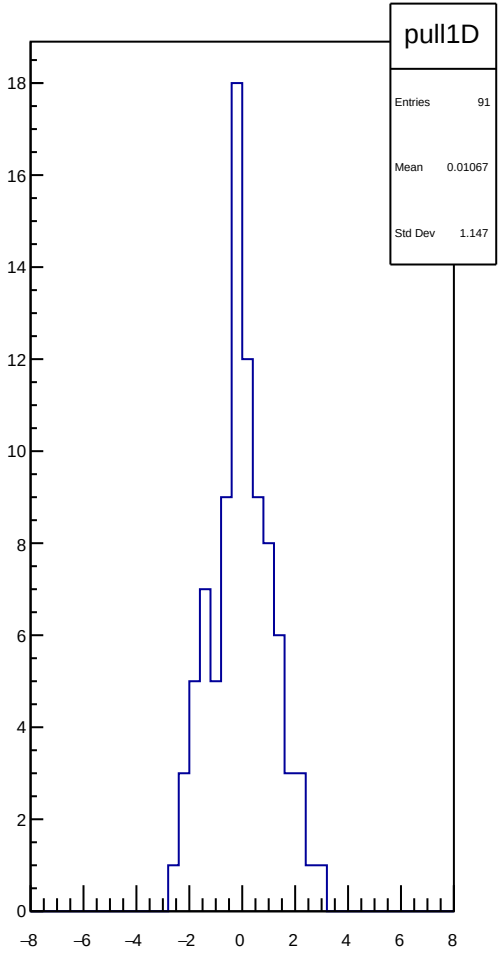

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 285.7 / 90
p0 434 ± 0.3231
455
450
445
440
435
430
425
420

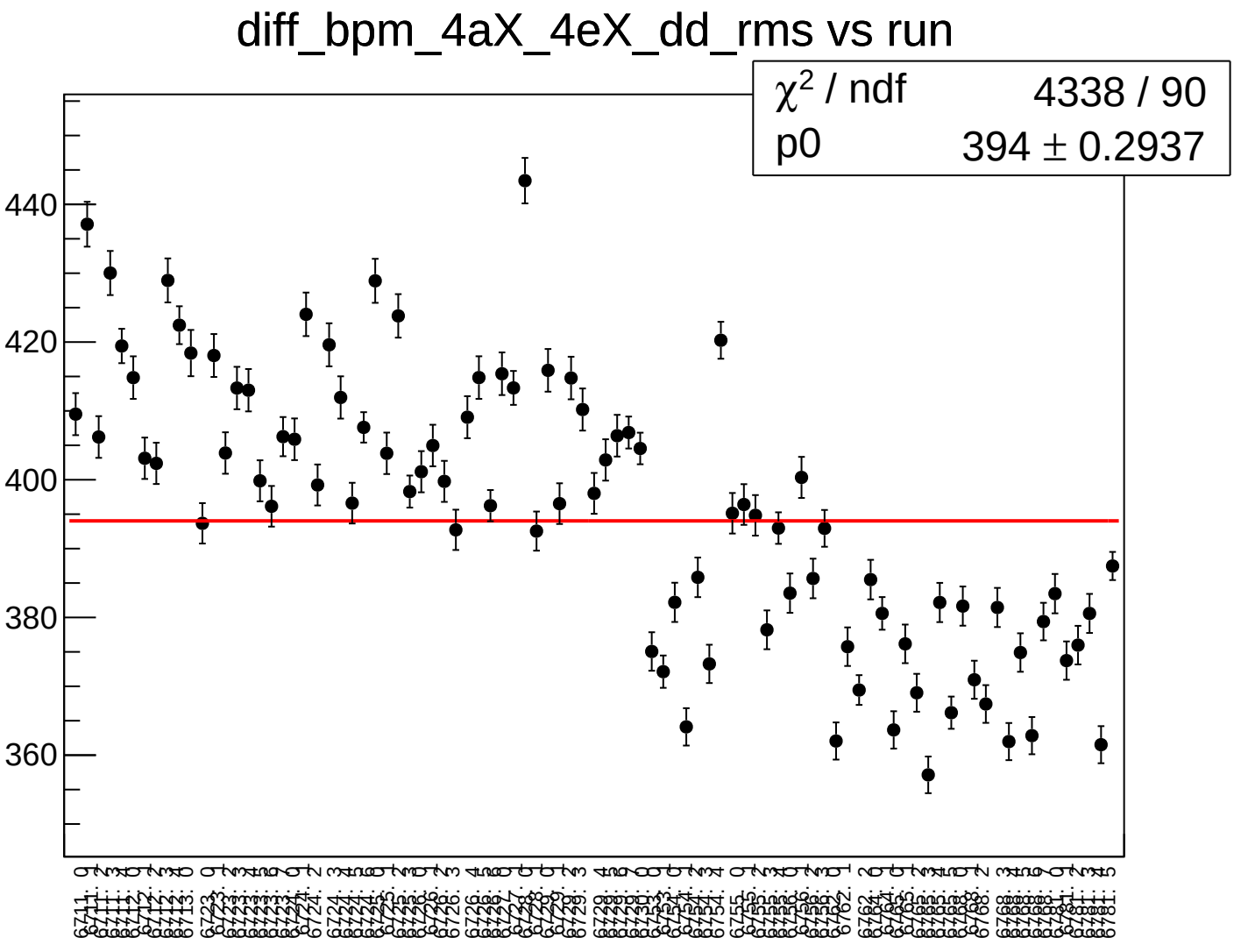

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 109.4 / 90
p0 5.377 ± 10.35
pull
Entries 91
Mean 49.51
Std Dev 75.97

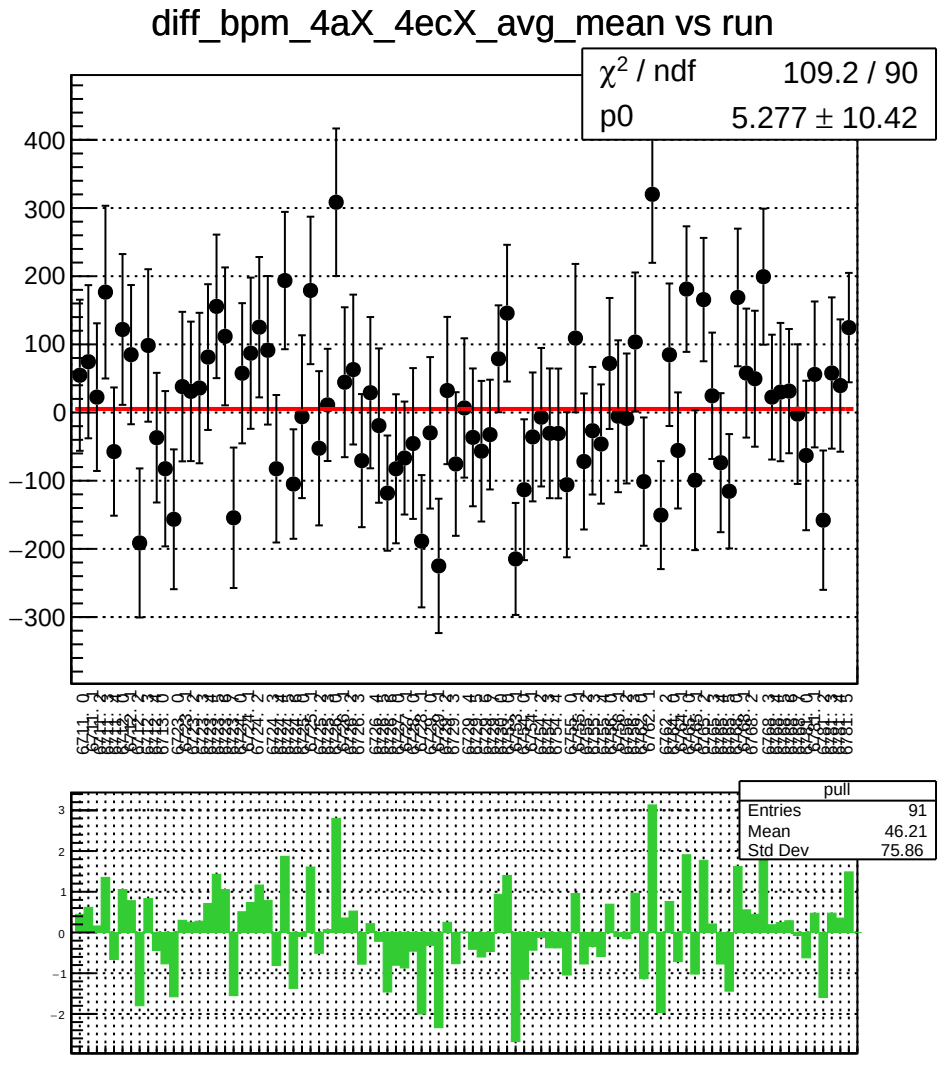

pull1D
Entries 91
Mean 0.02702
Std Dev 1.096

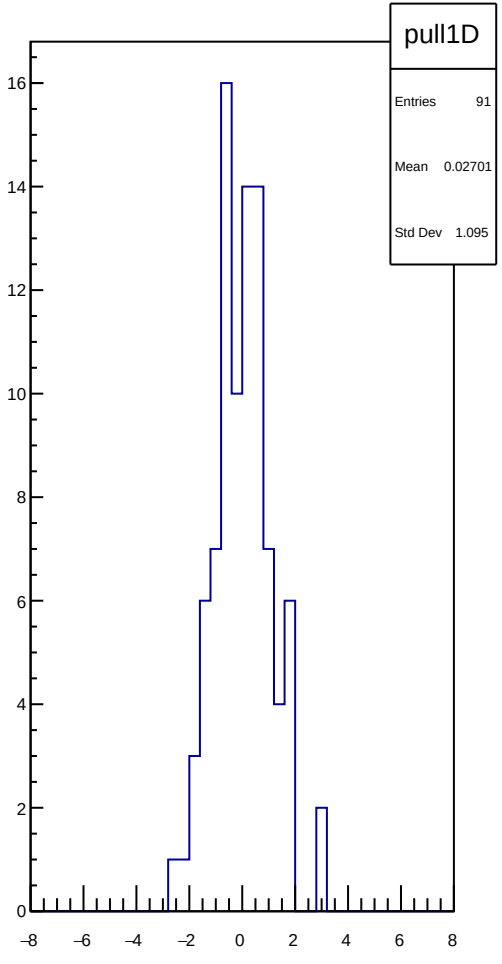

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 7458 / 90
p0 9809 ± 7.318
12000
11500
11000
10500
10000
9500
9000
8500

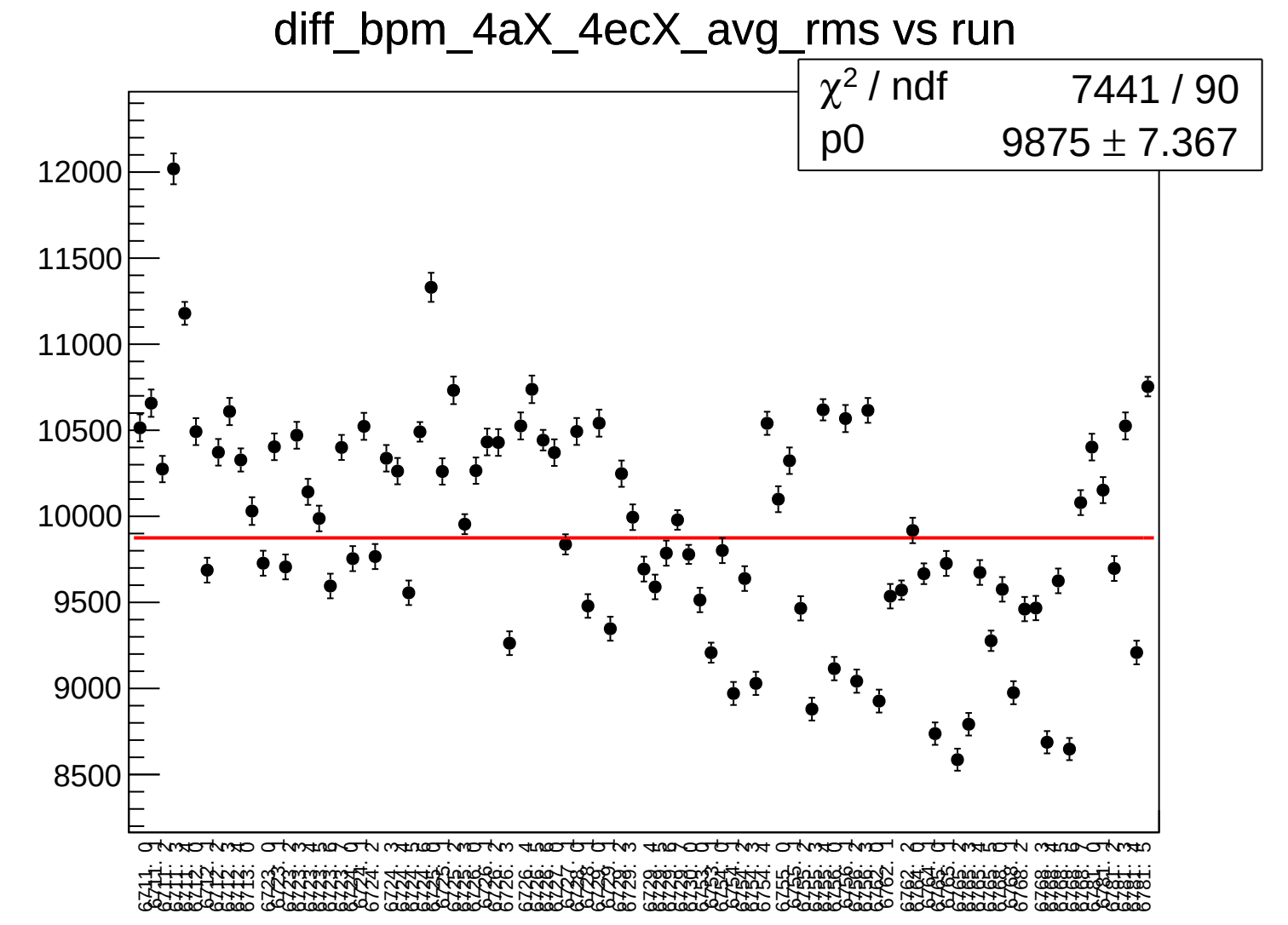

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 119.6 / 90
p0 0.09644 ± 0.4153
pull
Entries 91
Mean −159.3
Std Dev 0

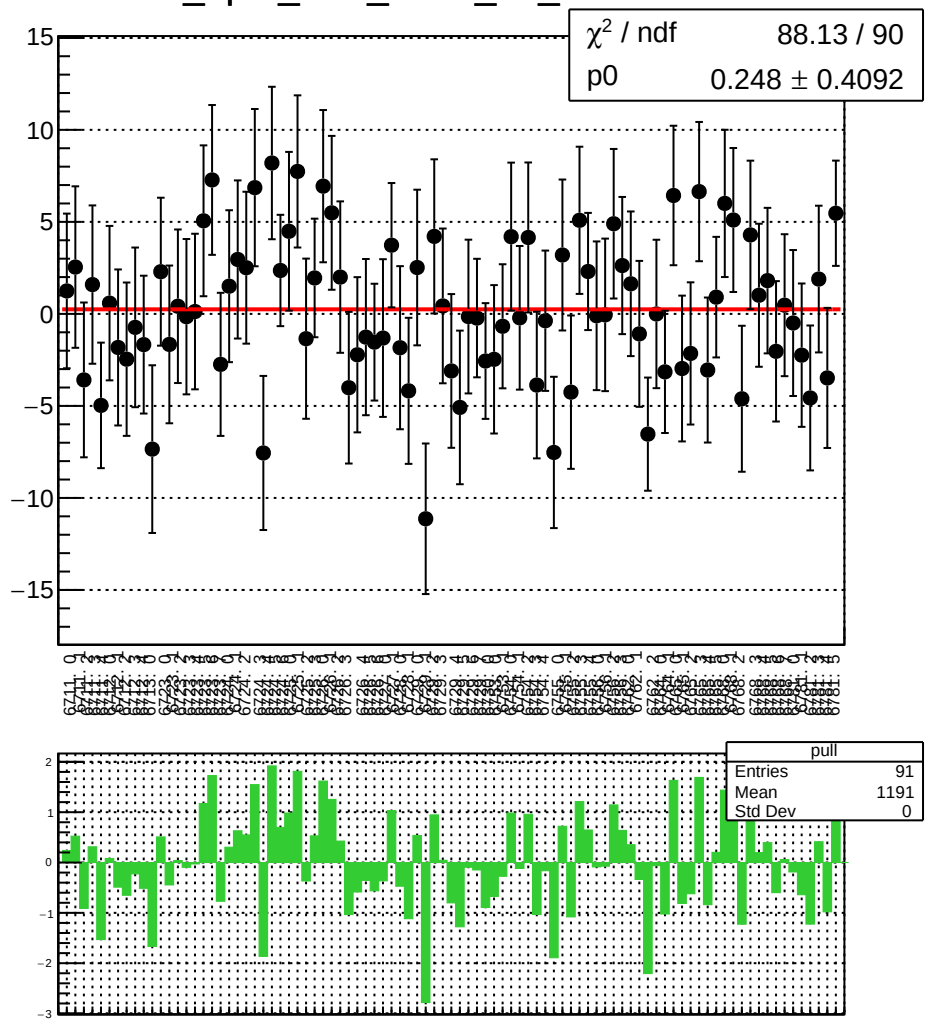

pull1D
Entries 91
Mean 0.01067
Std Dev 1.147

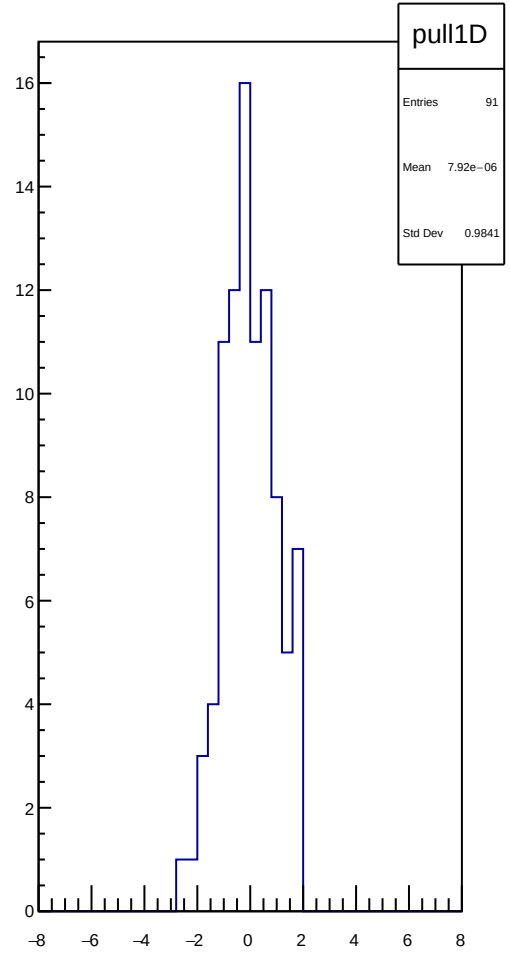

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 4338 / 90
p0 394 ± 0.2937
440
420
400
380
360

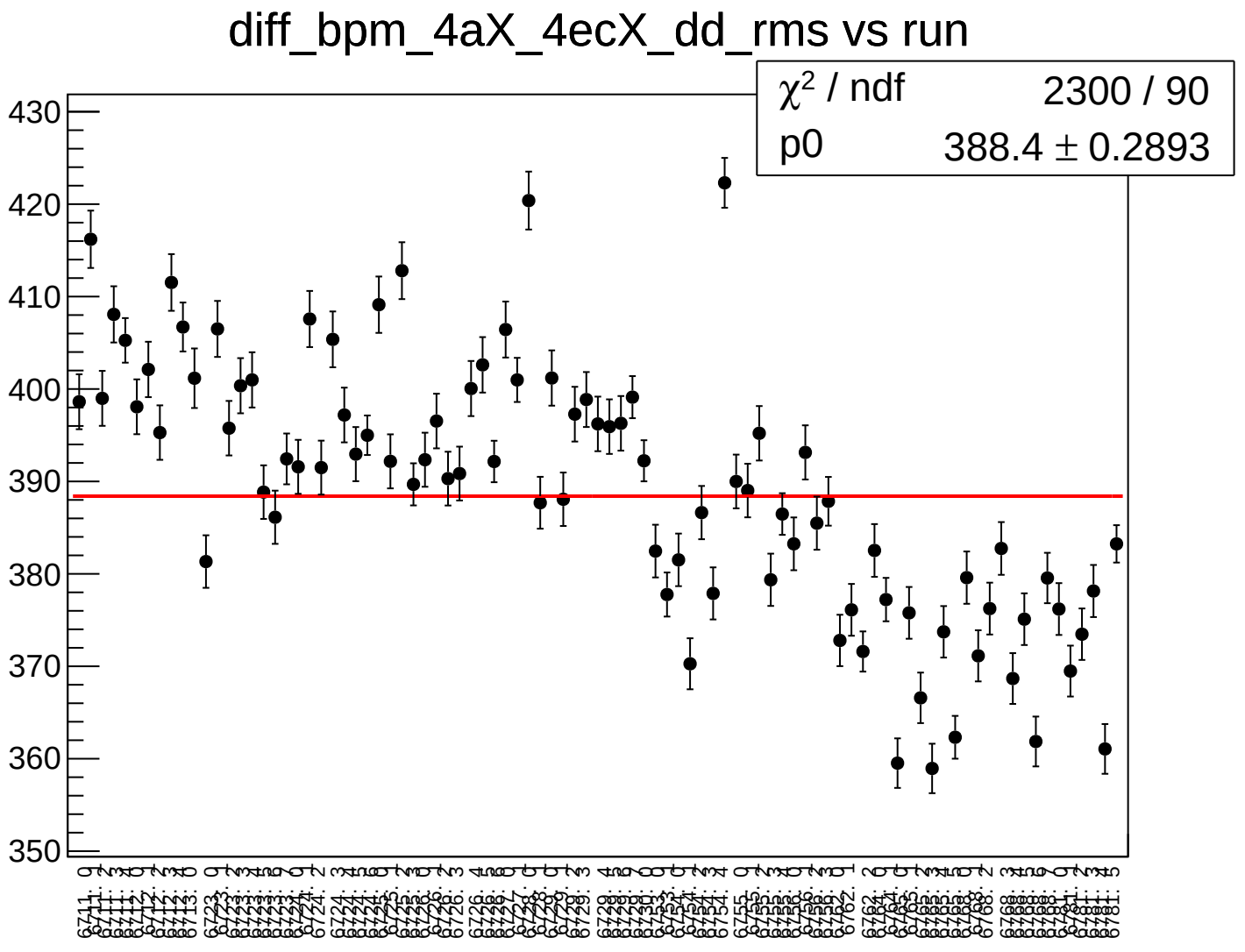

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 109.2 / 90
p0 5.277 ± 10.42
pull
Entries 91
Mean 46.21
Std Dev 75.86

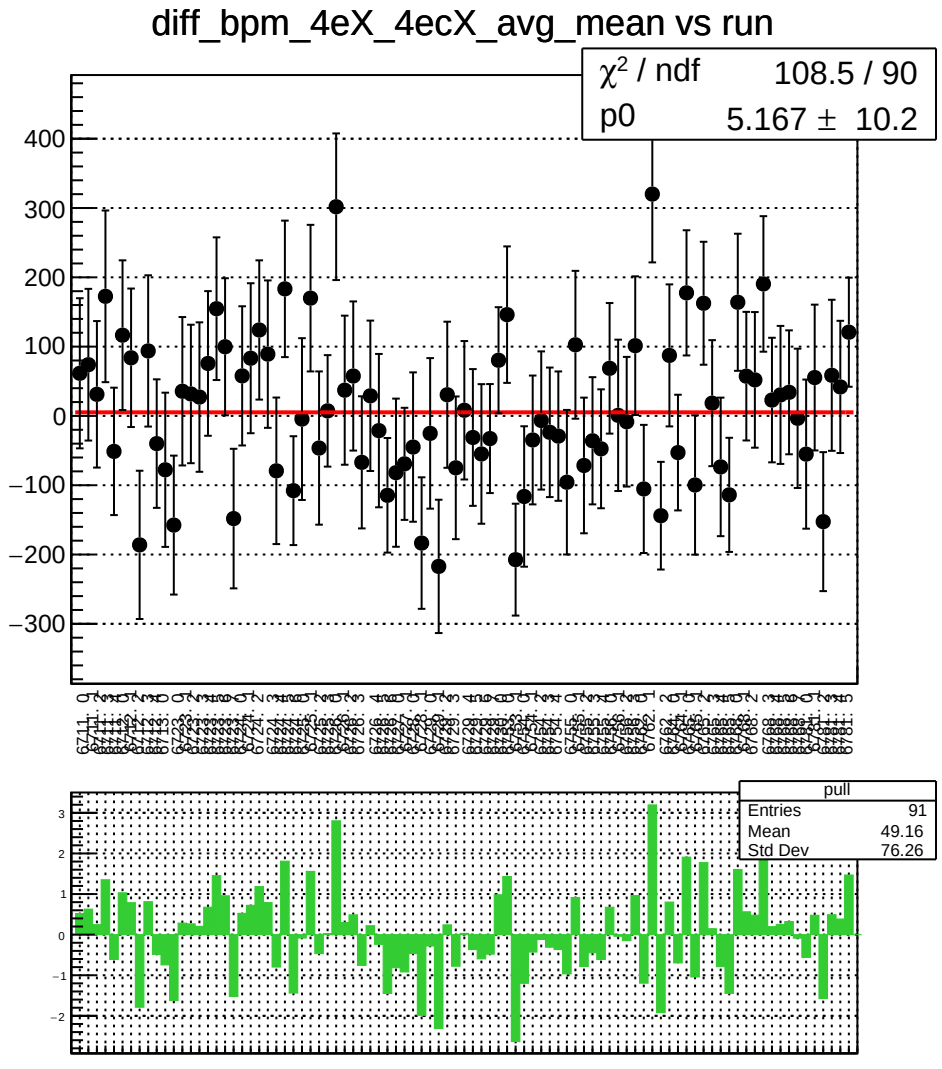

pull1D
Entries 91
Mean 0.02701
Std Dev 1.095

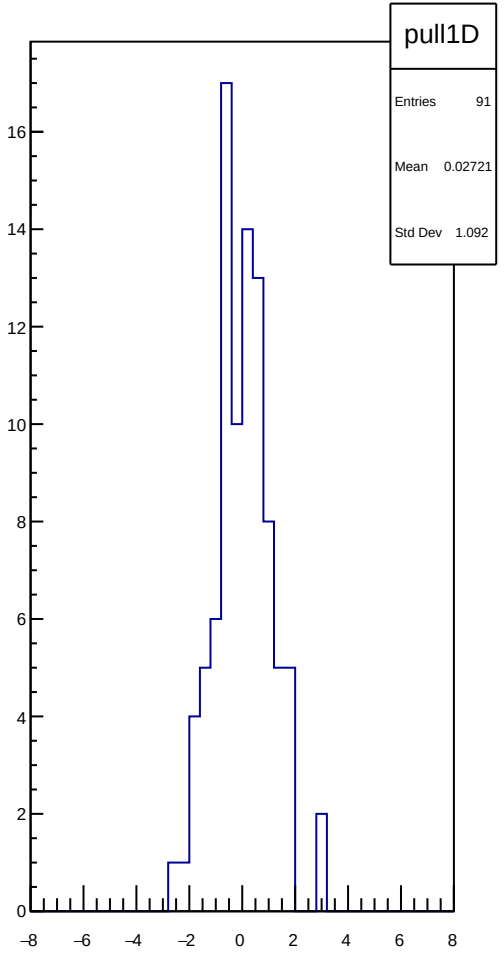

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 7441 / 90
p0 9875 ± 7.367
12000
11500
11000
10500
10000
9500
9000
8500

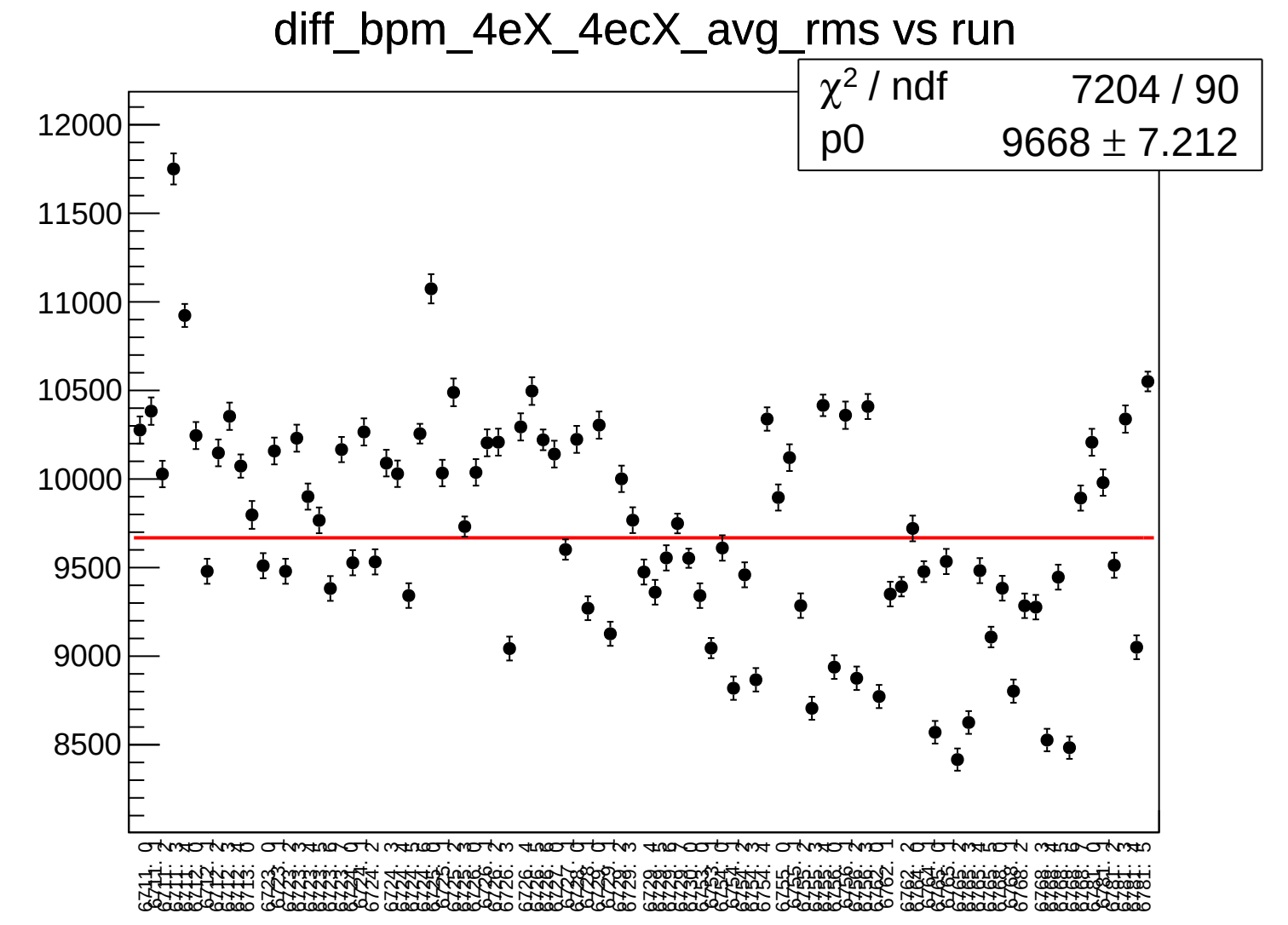

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 88.13 / 90
p0 0.248 ± 0.4092
pull
Entries 91
Mean 1191
Std Dev 0

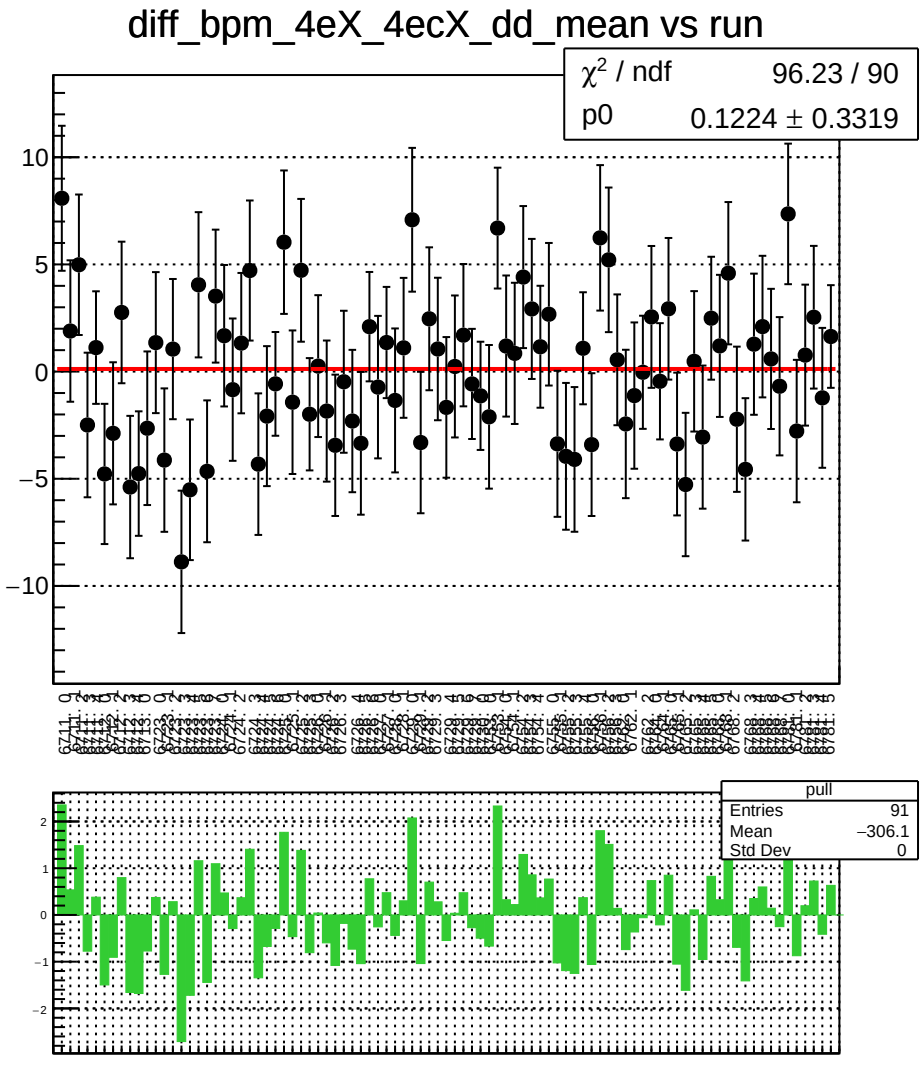

pull1D
Entries 91
Mean 7.92e−06
Std Dev 0.9841

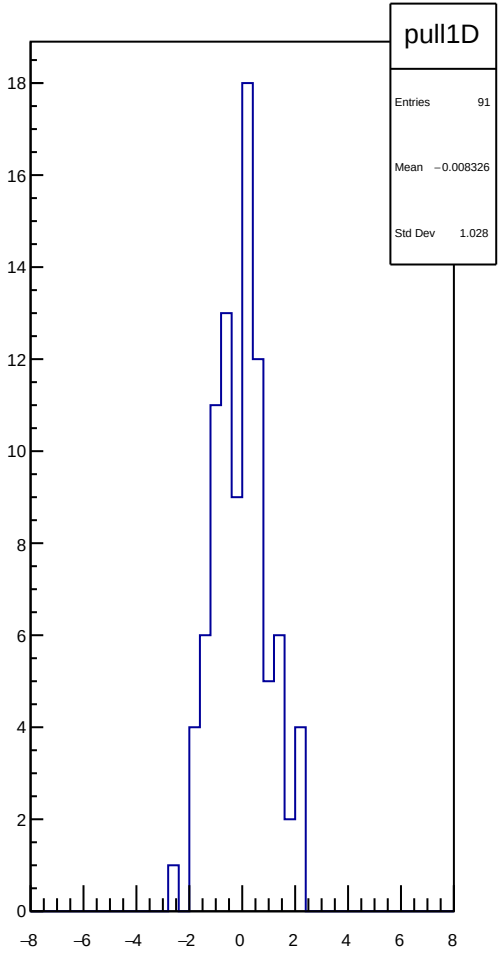

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 2300 / 90
p0 388.4 ± 0.2893
430
420
410
400
390
380
370
360
350

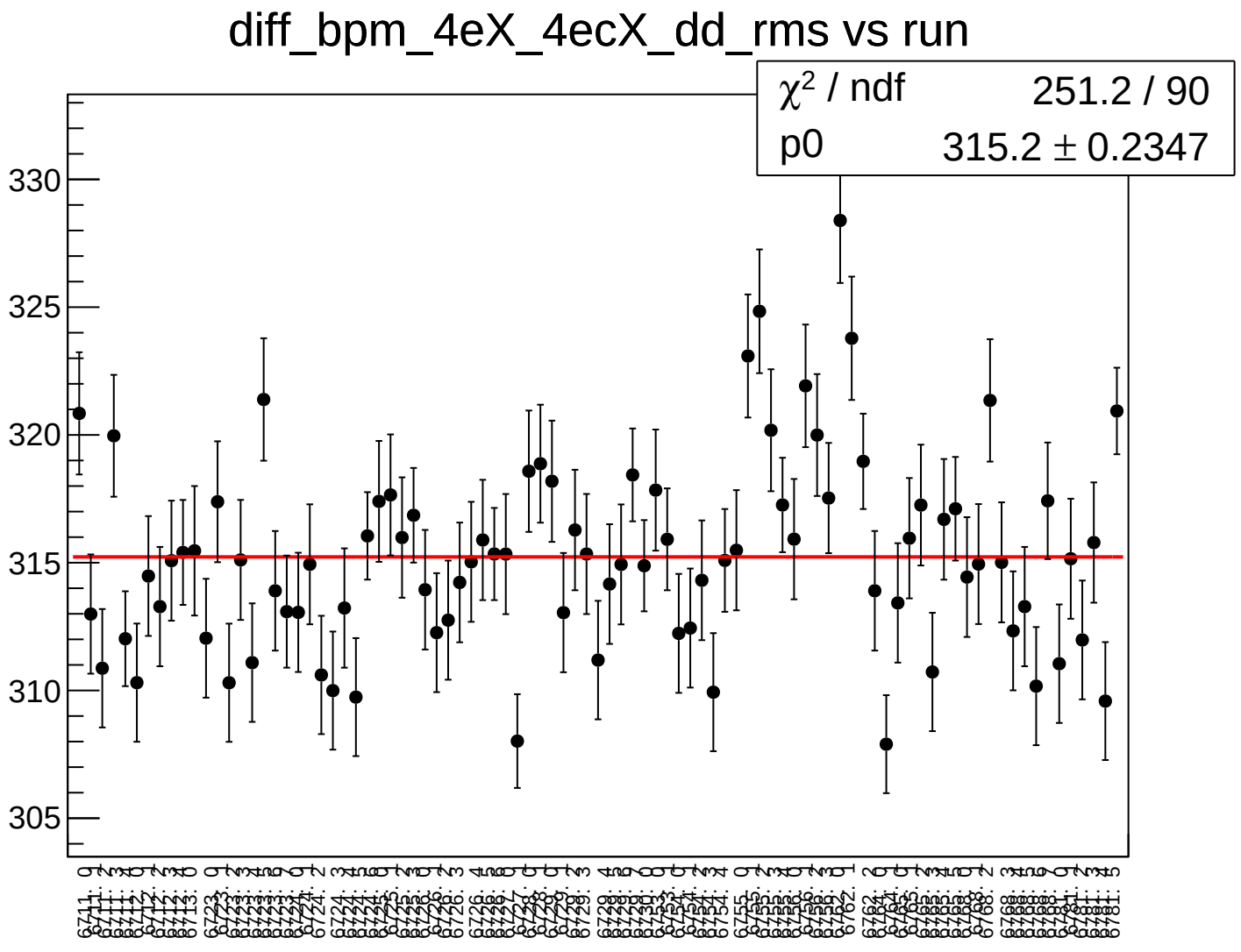

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 108.5 / 90
p0 5.167 ± 10.2
pull
Entries 91
Mean 49.16
Std Dev 76.26

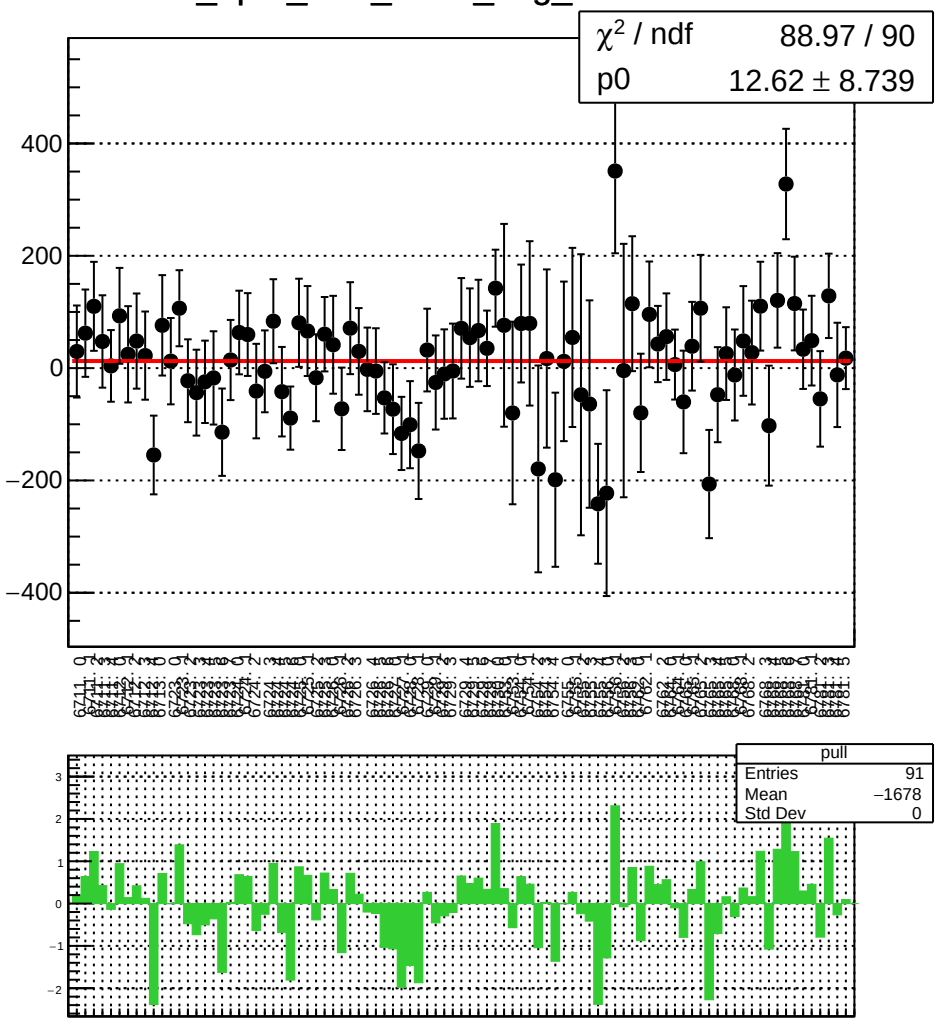

pull1D
Entries 91
Mean 0.02721
Std Dev 1.092

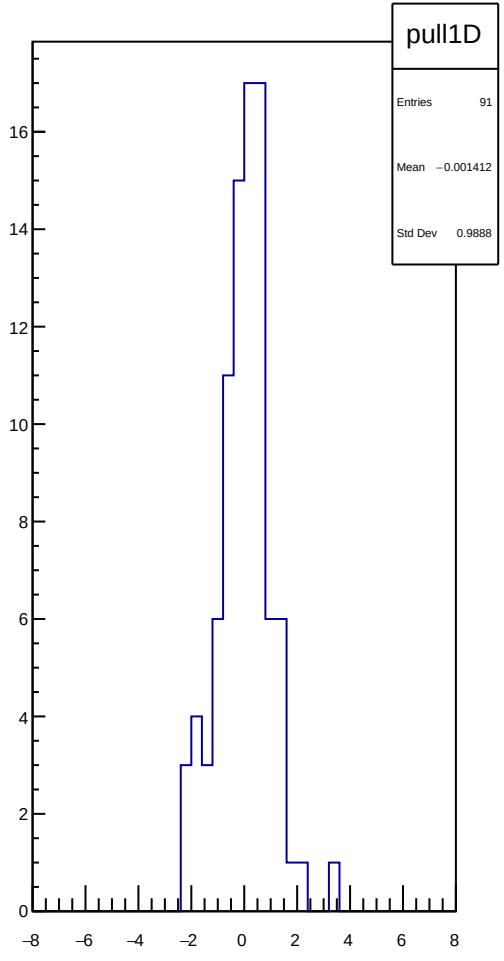

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 7204 / 90
p0 9668 ± 7.212
12000
11500
11000
10500
10000
9500
9000
8500

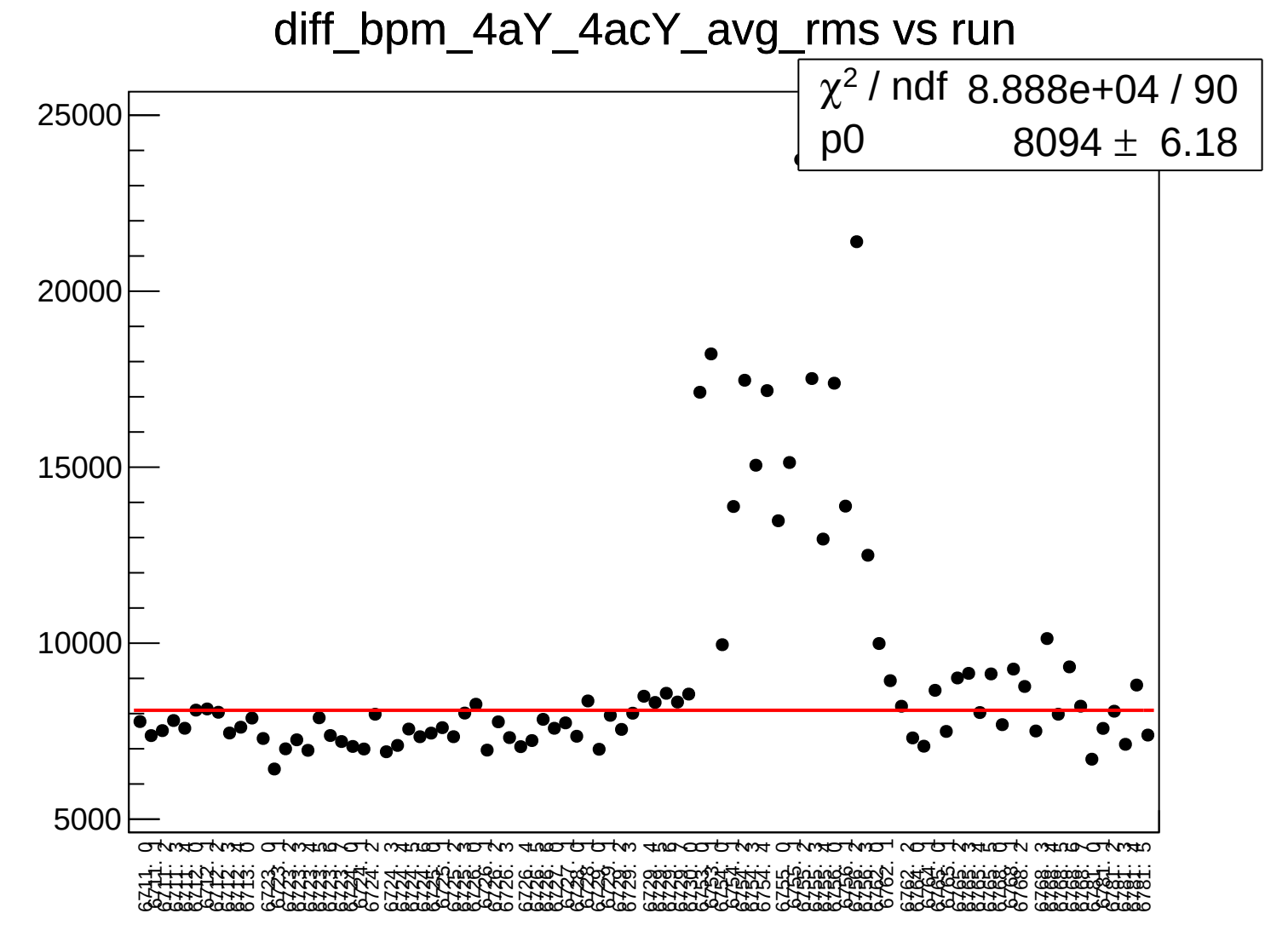

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 96.23 / 90
p0 0.1224 ± 0.3319
pull
Entries 91
Mean −306.1
Std Dev 0

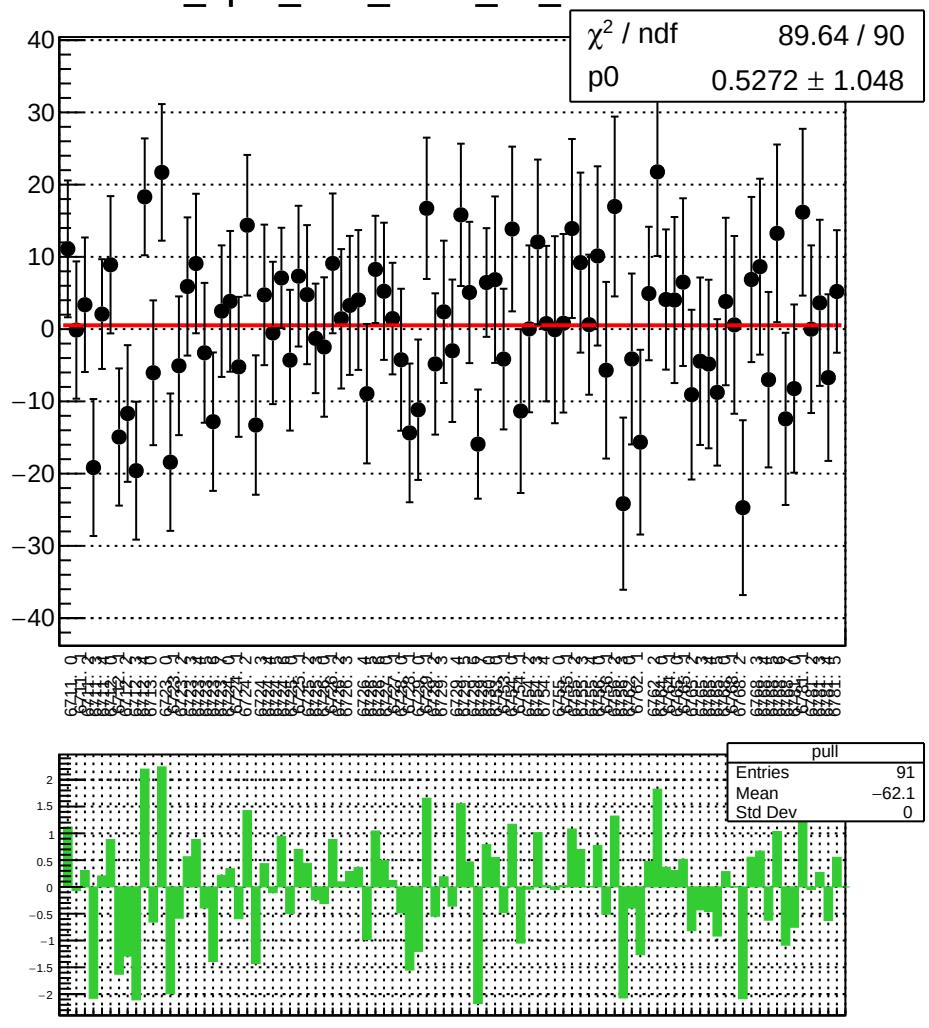

pull1D
Entries 91
Mean −0.008326
Std Dev 1.028

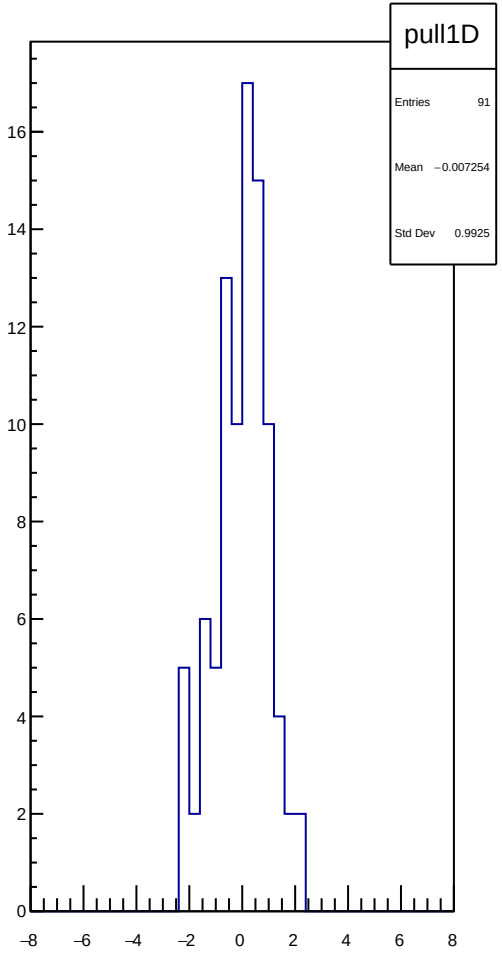

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 251.2 / 90
p0 315.2 ± 0.2347
330
325
320
315
310
305

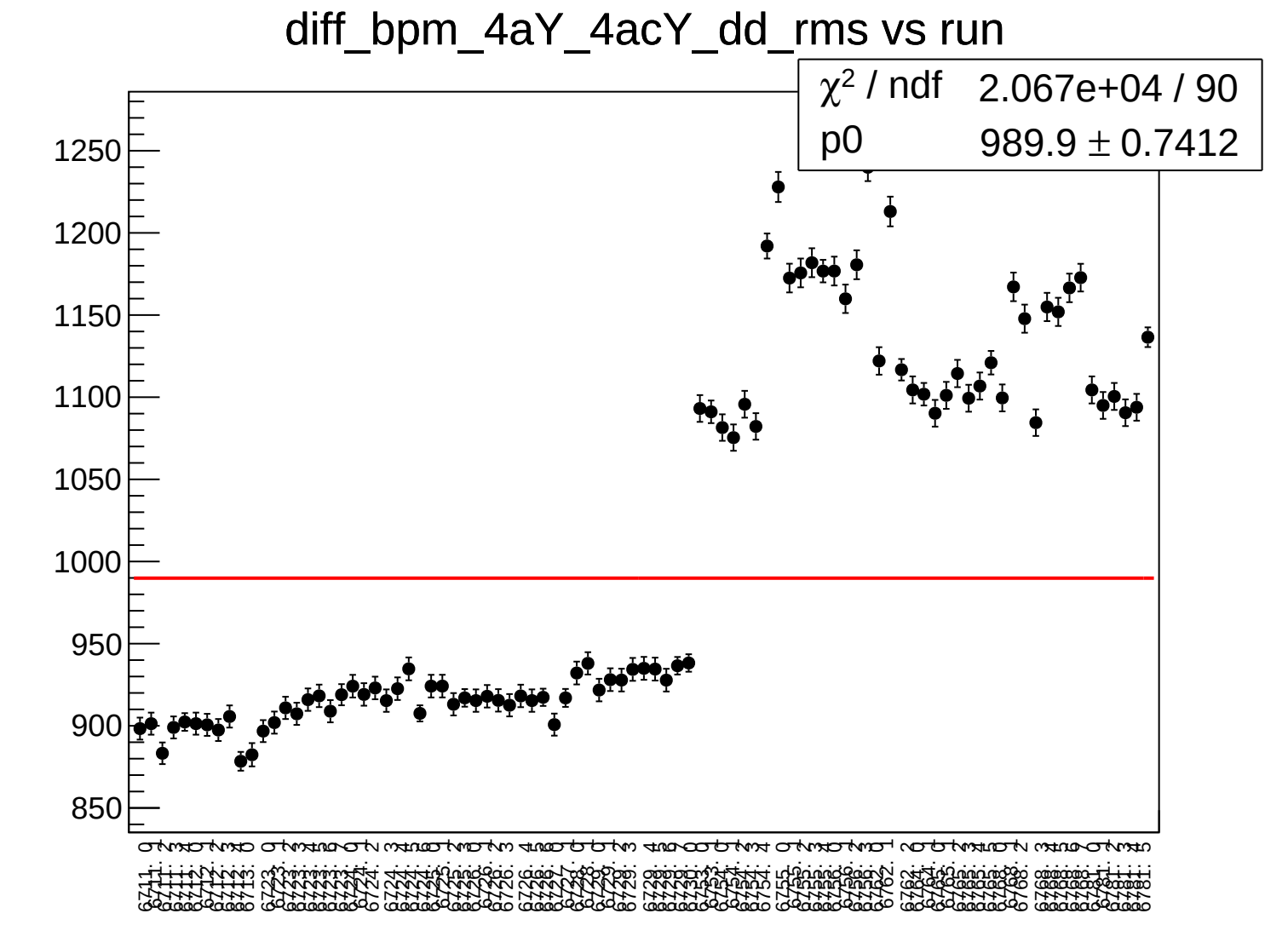

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 88.97 / 90
p0 12.62 ± 8.739
400
200
0
−200
−400
pull
Entries 91
Mean −1678
Std Dev 0
3
2
1
0
−1
−2

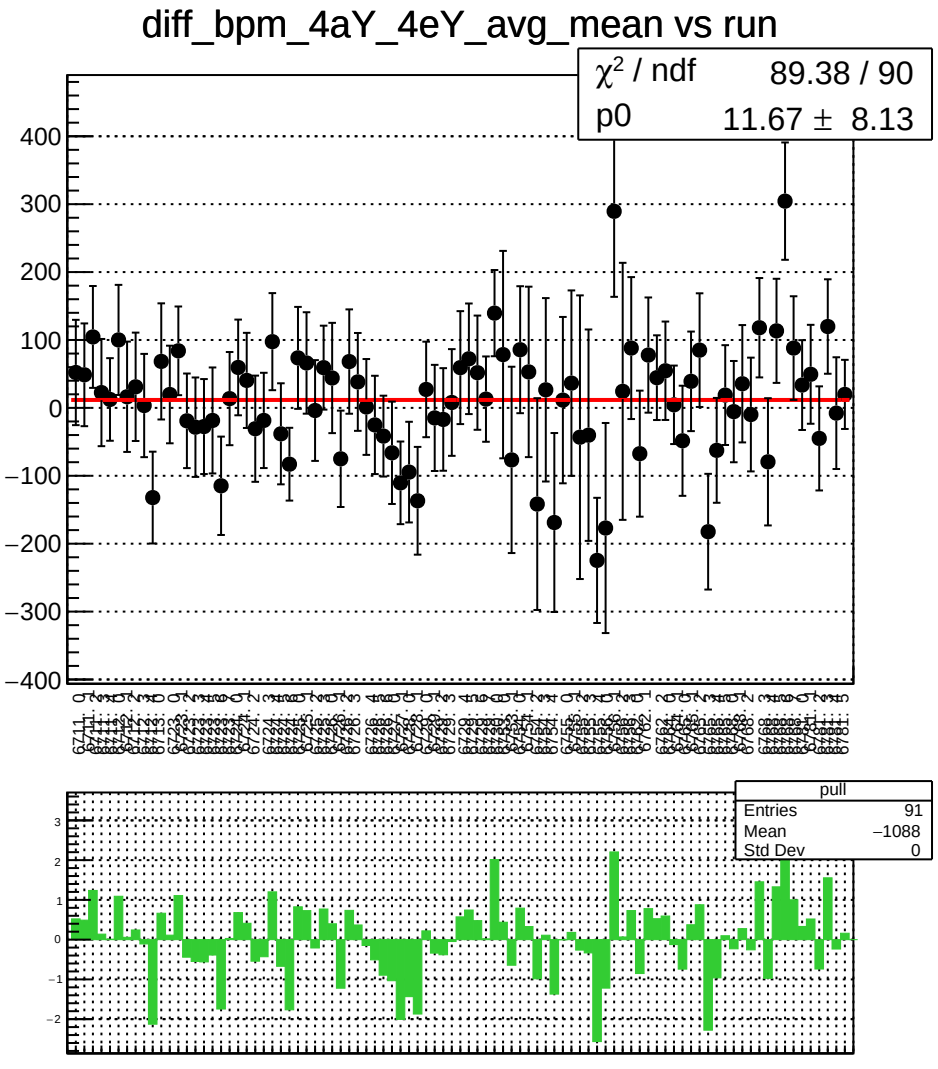

pull1D
Entries 91
Mean −0.001412
Std Dev 0.9888
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

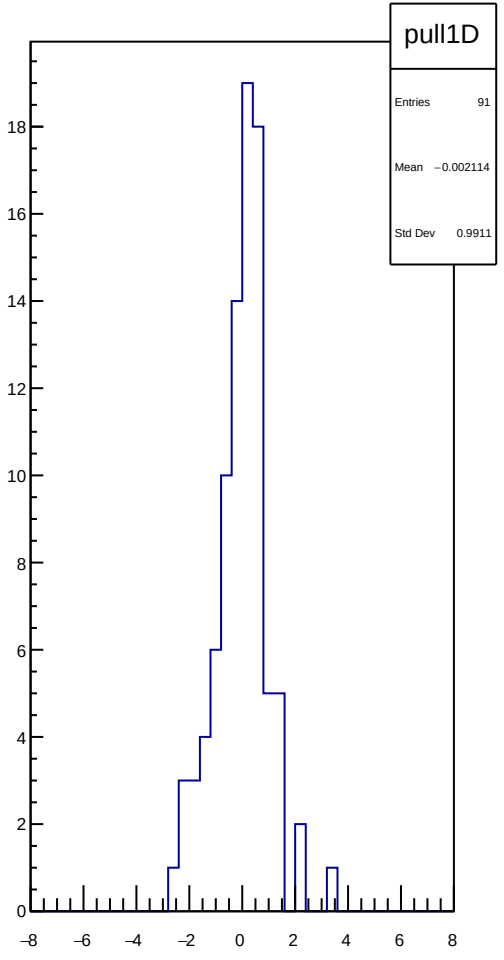

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 8.888e+04 / 90
p0 8094 ± 6.18
25000
20000
15000
10000
5000

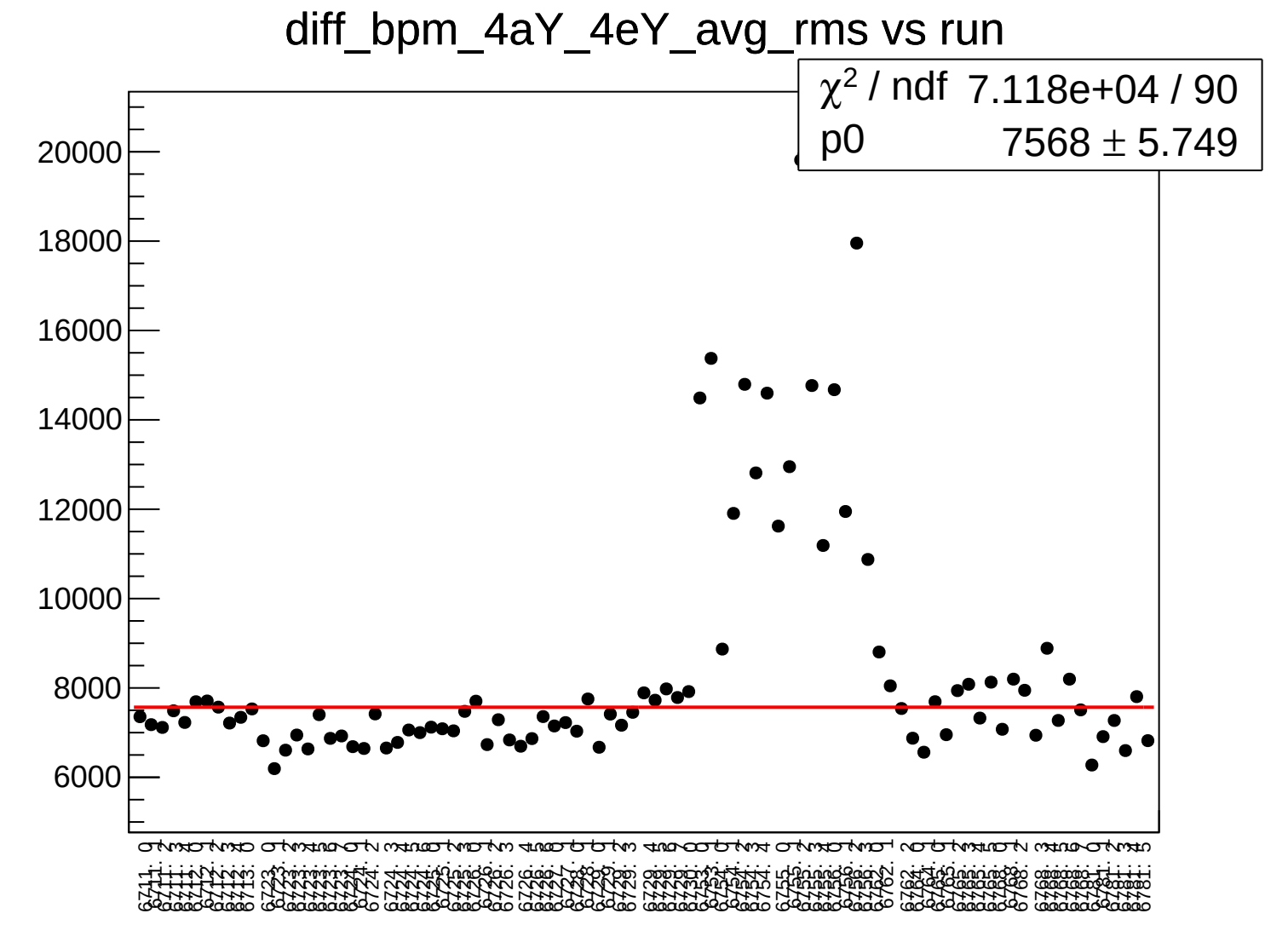

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 89.64 / 90
p0 0.5272 ± 1.048
pull
Entries 91
Mean −62.1
Std Dev 0

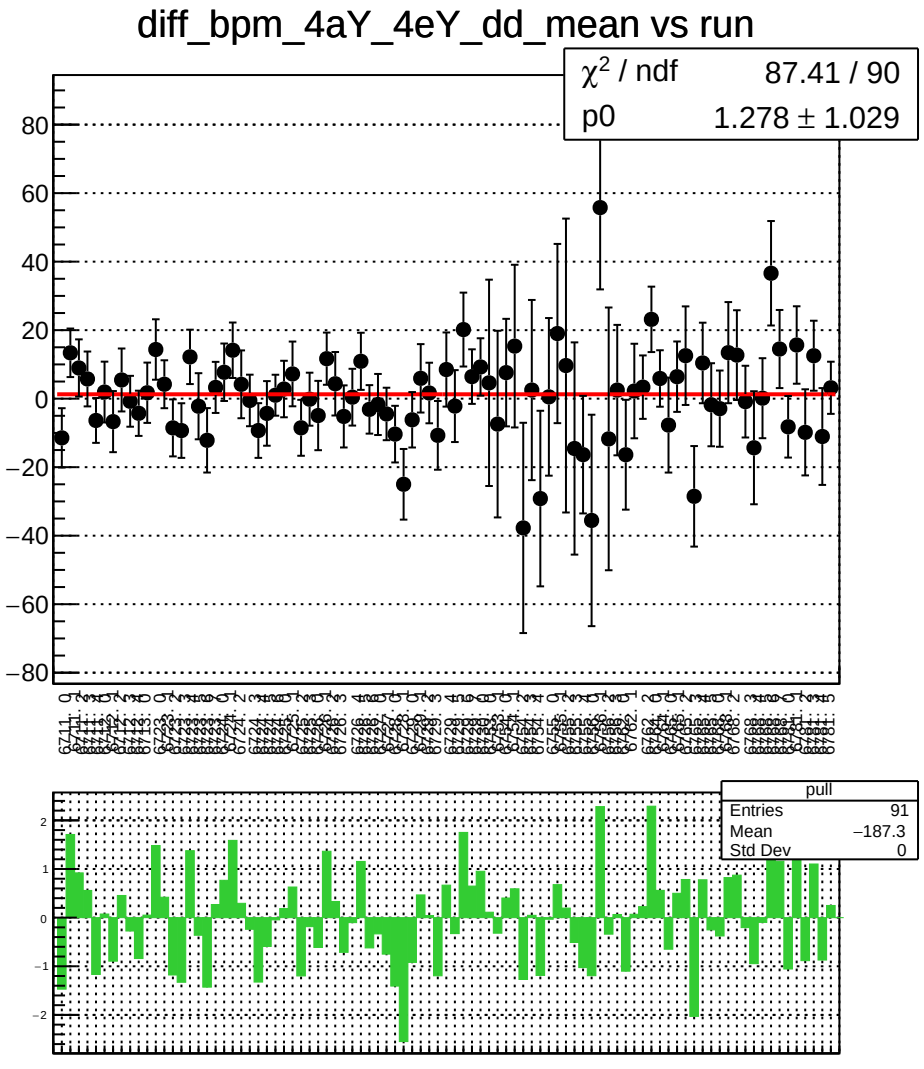

pull1D
Entries 91
Mean −0.007254
Std Dev 0.9925

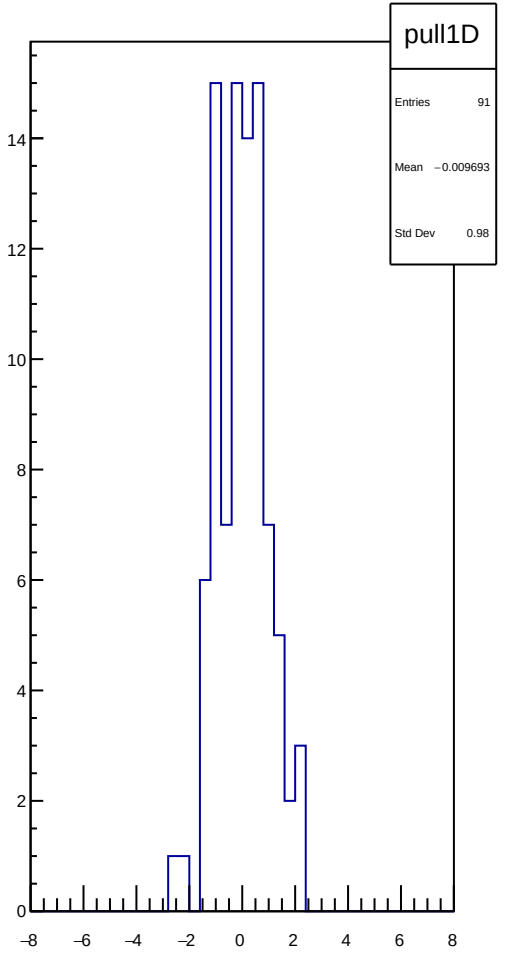

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 2.067e+04 / 90
p0 989.9 ± 0.7412
1250
1200
1150
1100
1050
1000
950
900
850

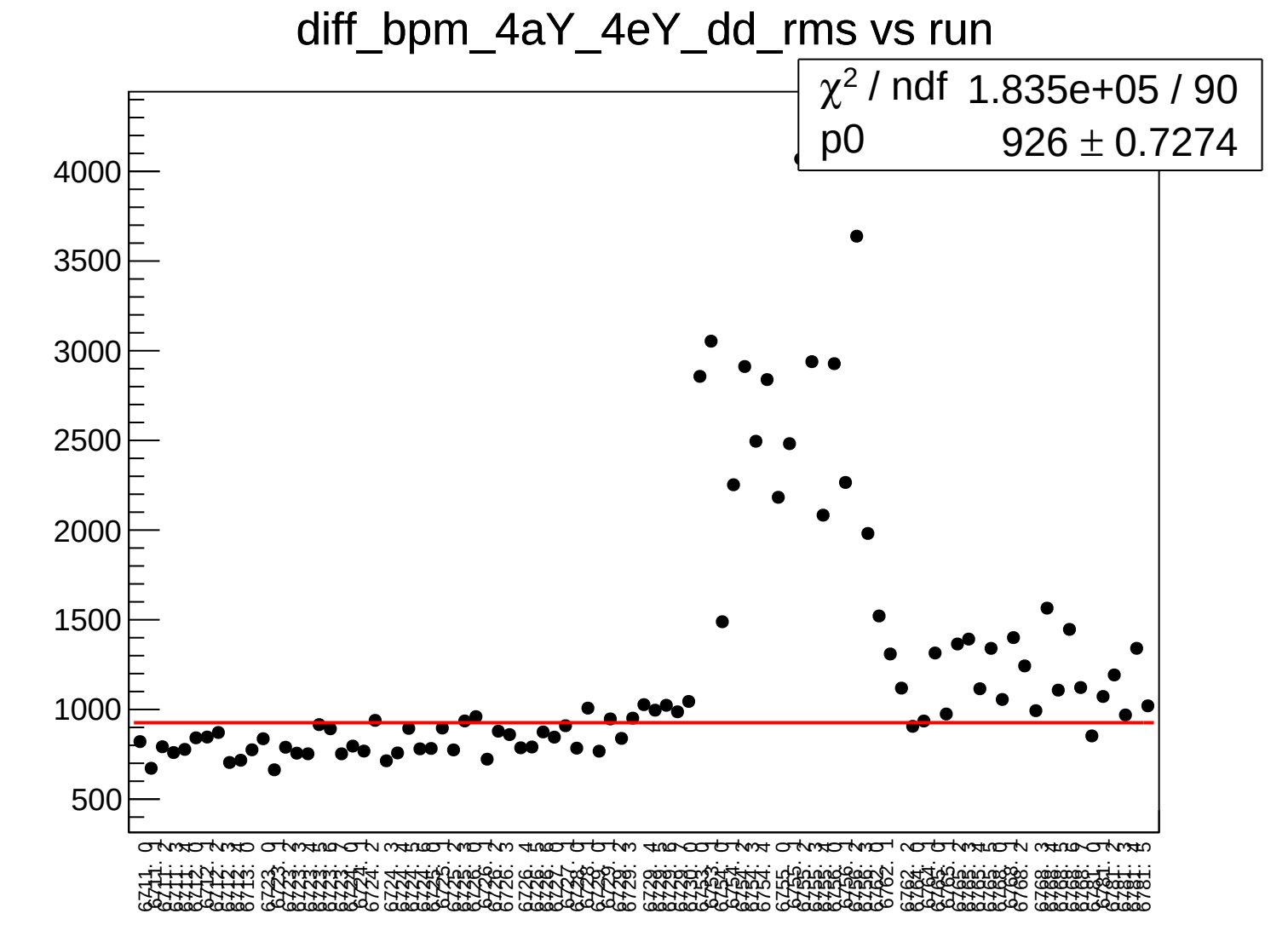

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 89.38 / 90
p0 11.67 ± 8.13
pull
Entries 91
Mean −1088
Std Dev 0

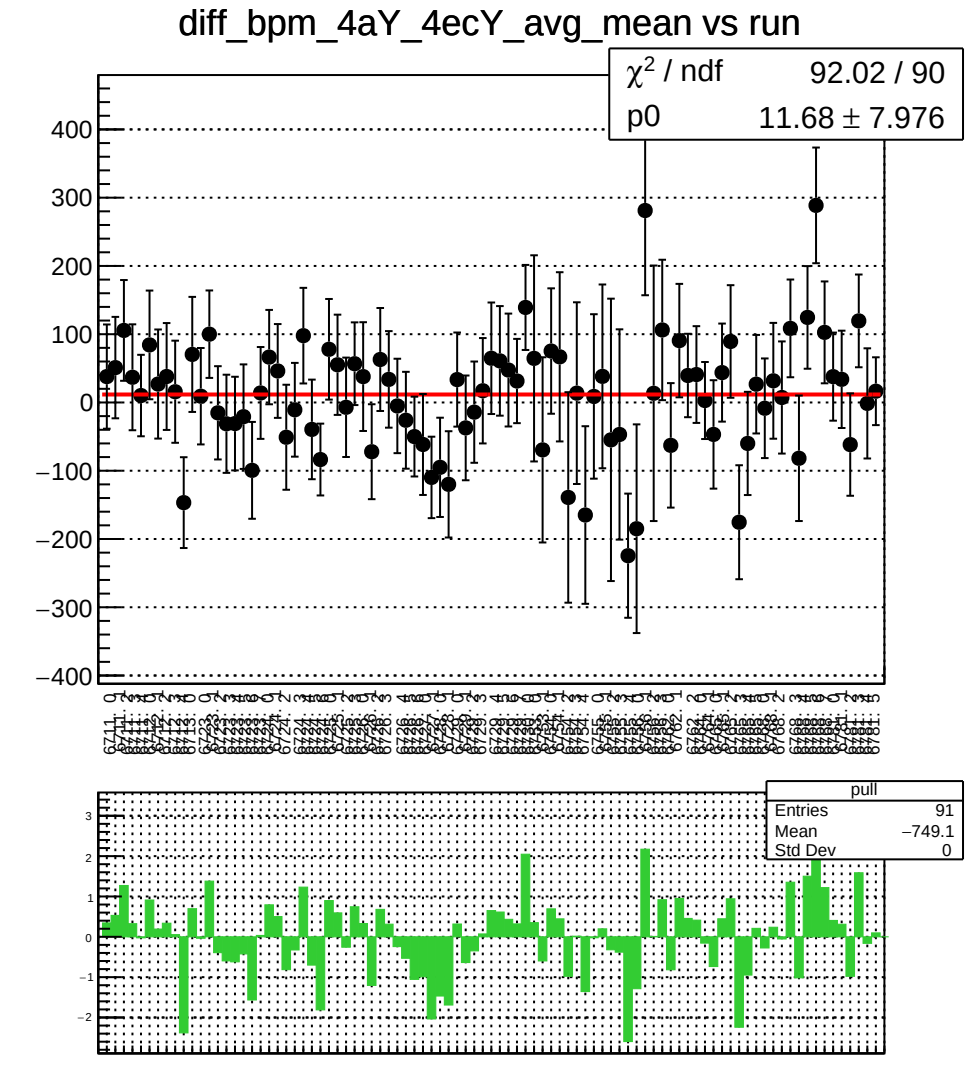

pull1D
Entries 91
Mean −0.002114
Std Dev 0.9911

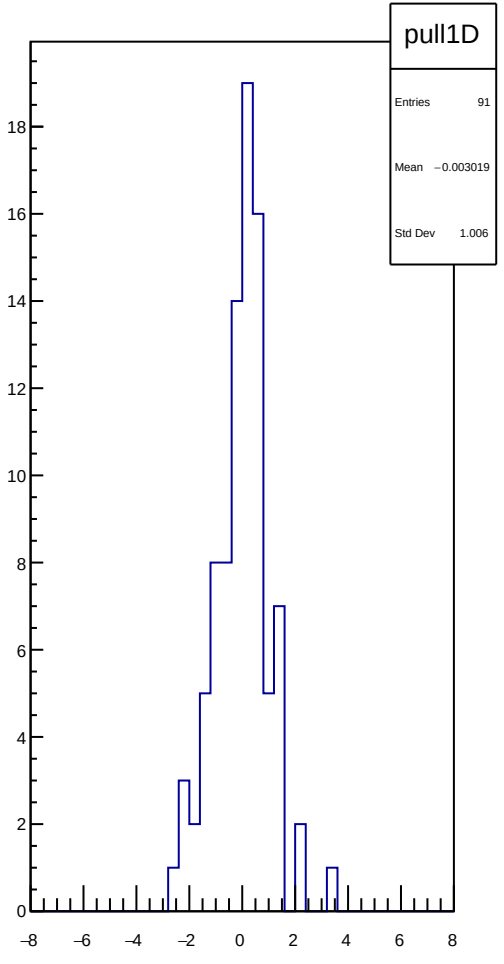

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 7.118e+04 / 90
p0 7568 ± 5.749
20000
18000
16000
14000
12000
10000
8000
6000

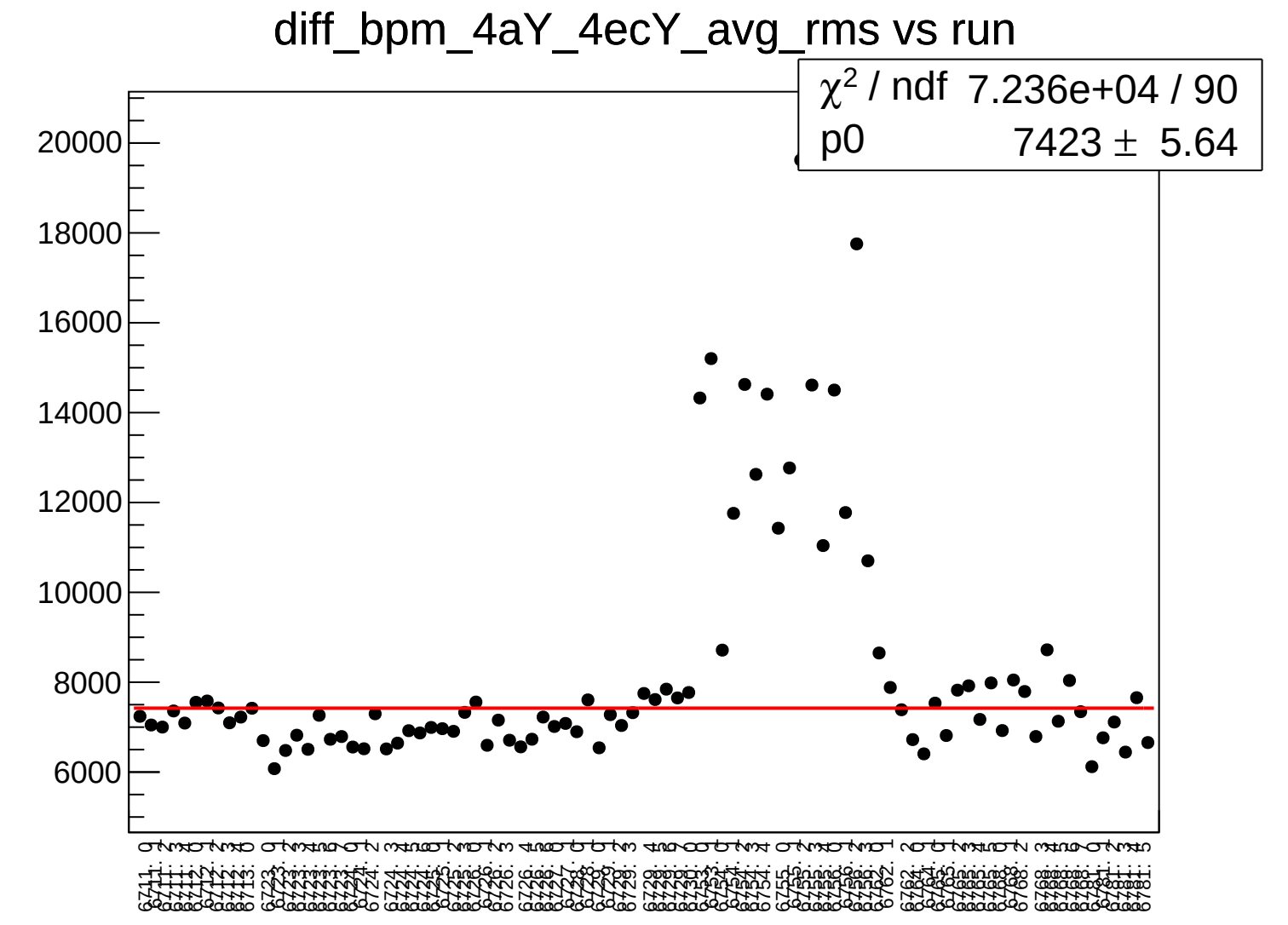

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 87.41 / 90
p0 1.278 ± 1.029
pull
Entries 91
Mean −187.3
Std Dev 0

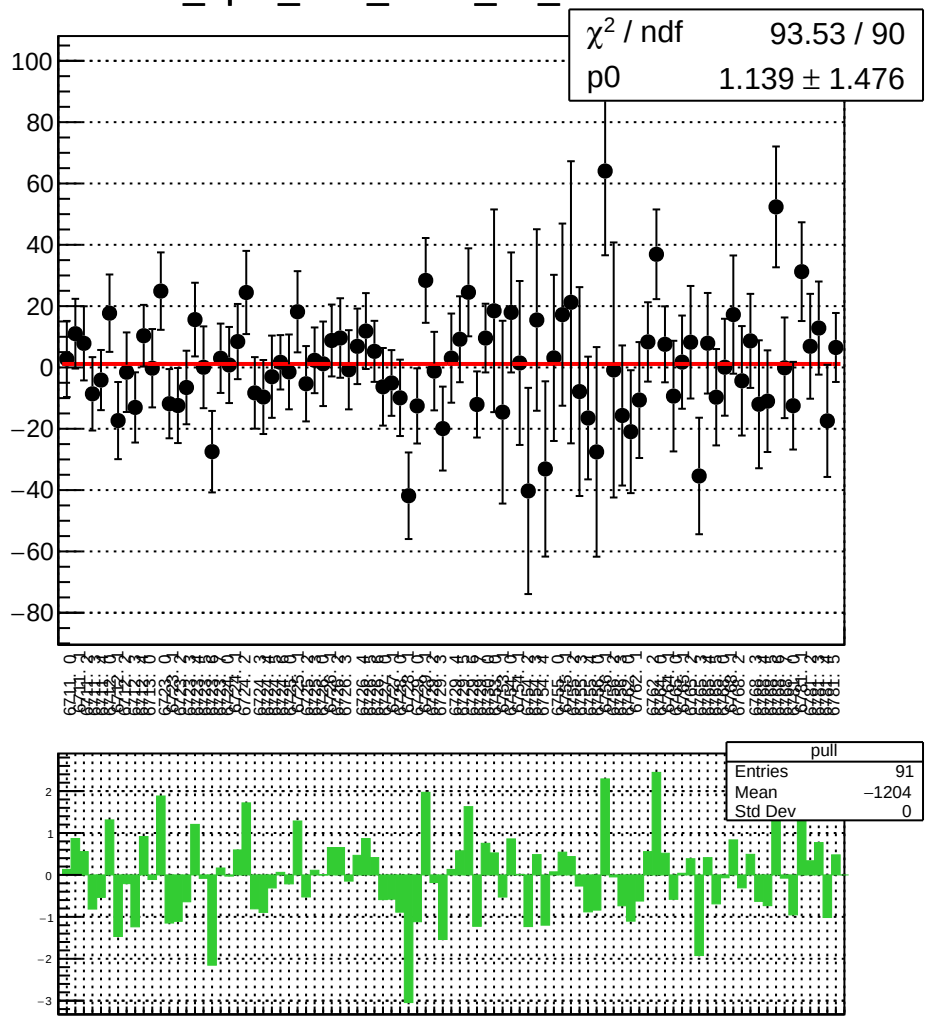

pull1D
Entries 91
Mean −0.009693
Std Dev 0.98

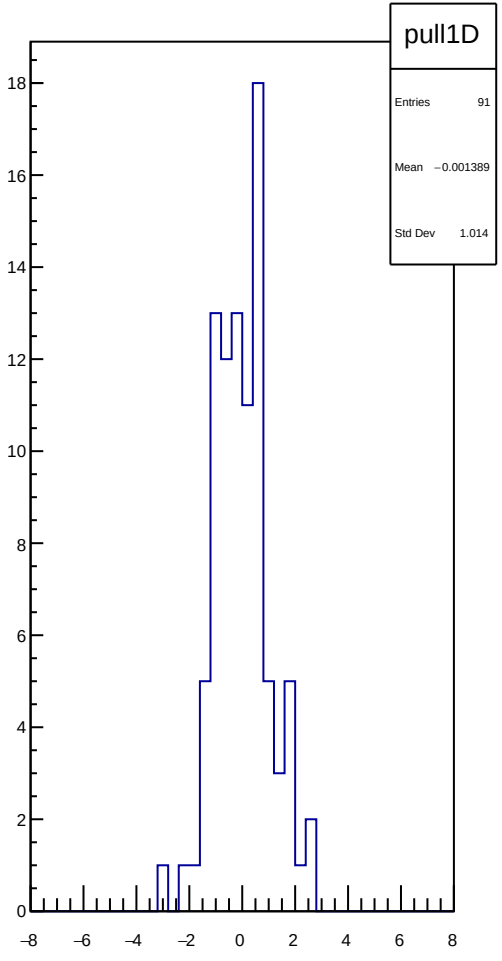

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1.835e+05 / 90
p0 926 ± 0.7274
4000
3500
3000
2500
2000
1500
1000
500

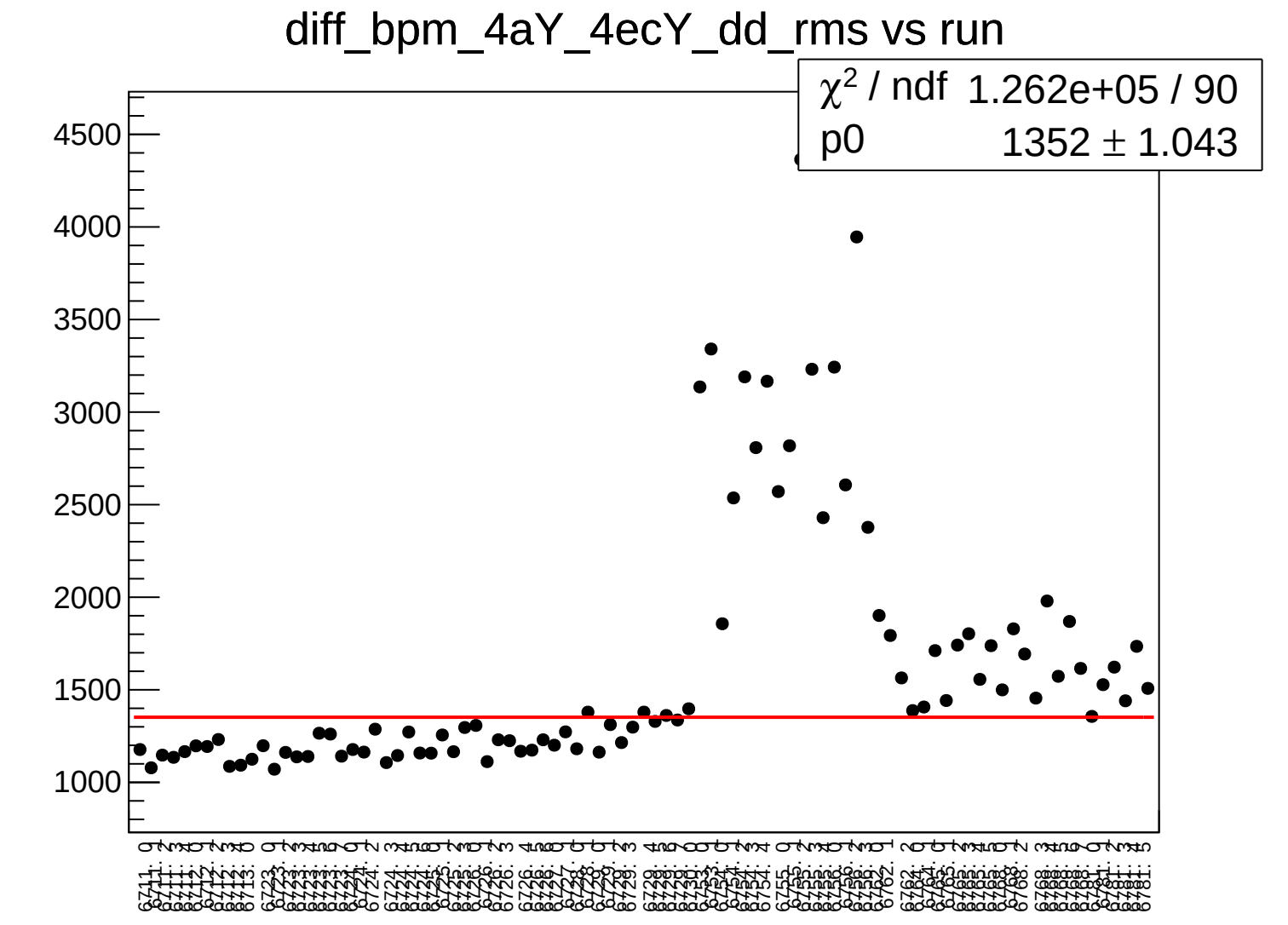

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 92.02 / 90
p0 11.68 ± 7.976
pull
Entries 91
Mean −749.1
Std Dev 0

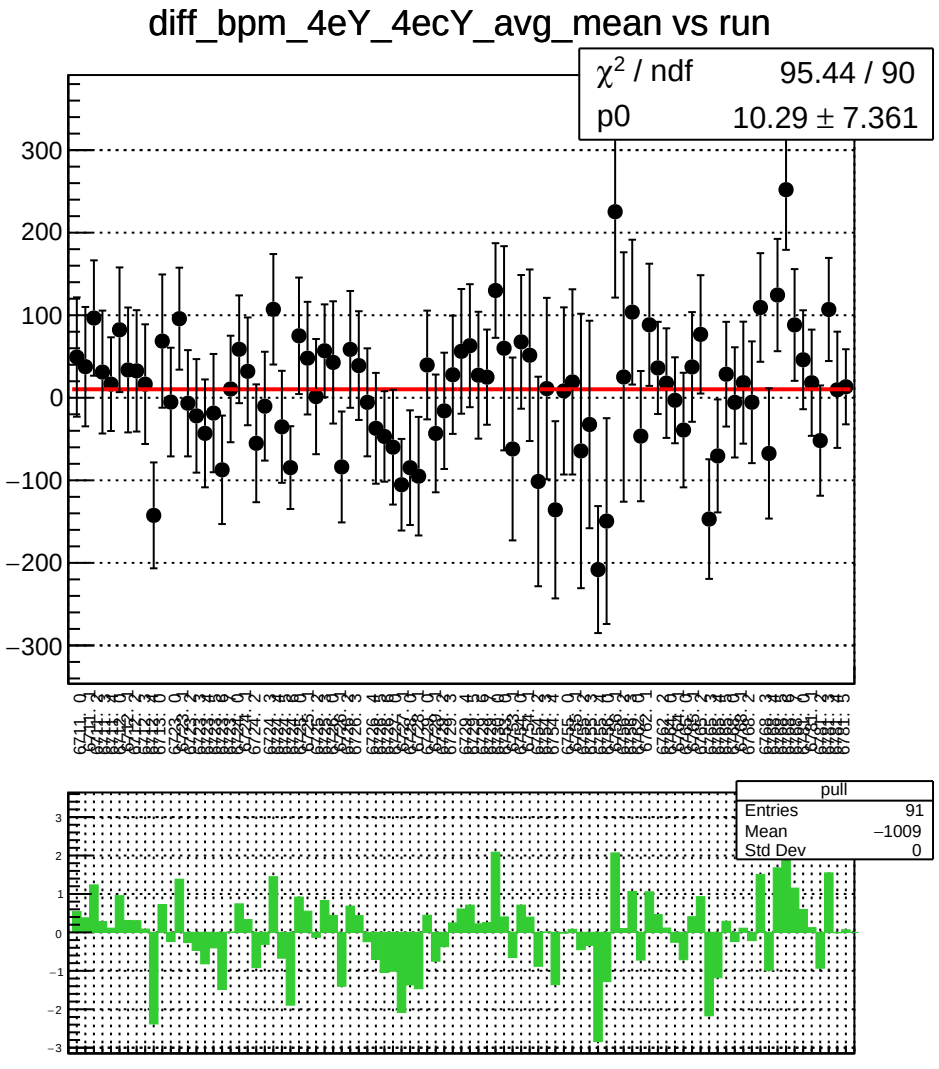

pull1D
Entries 91
Mean −0.003019
Std Dev 1.006

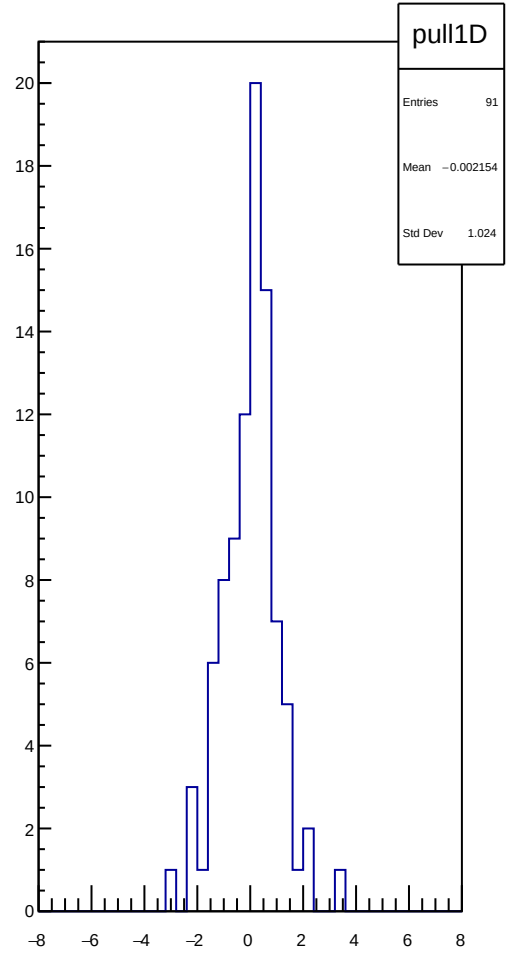

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 7.236e+04 / 90
p0 7423 ± 5.64
20000
18000
16000
14000
12000
10000
8000
6000

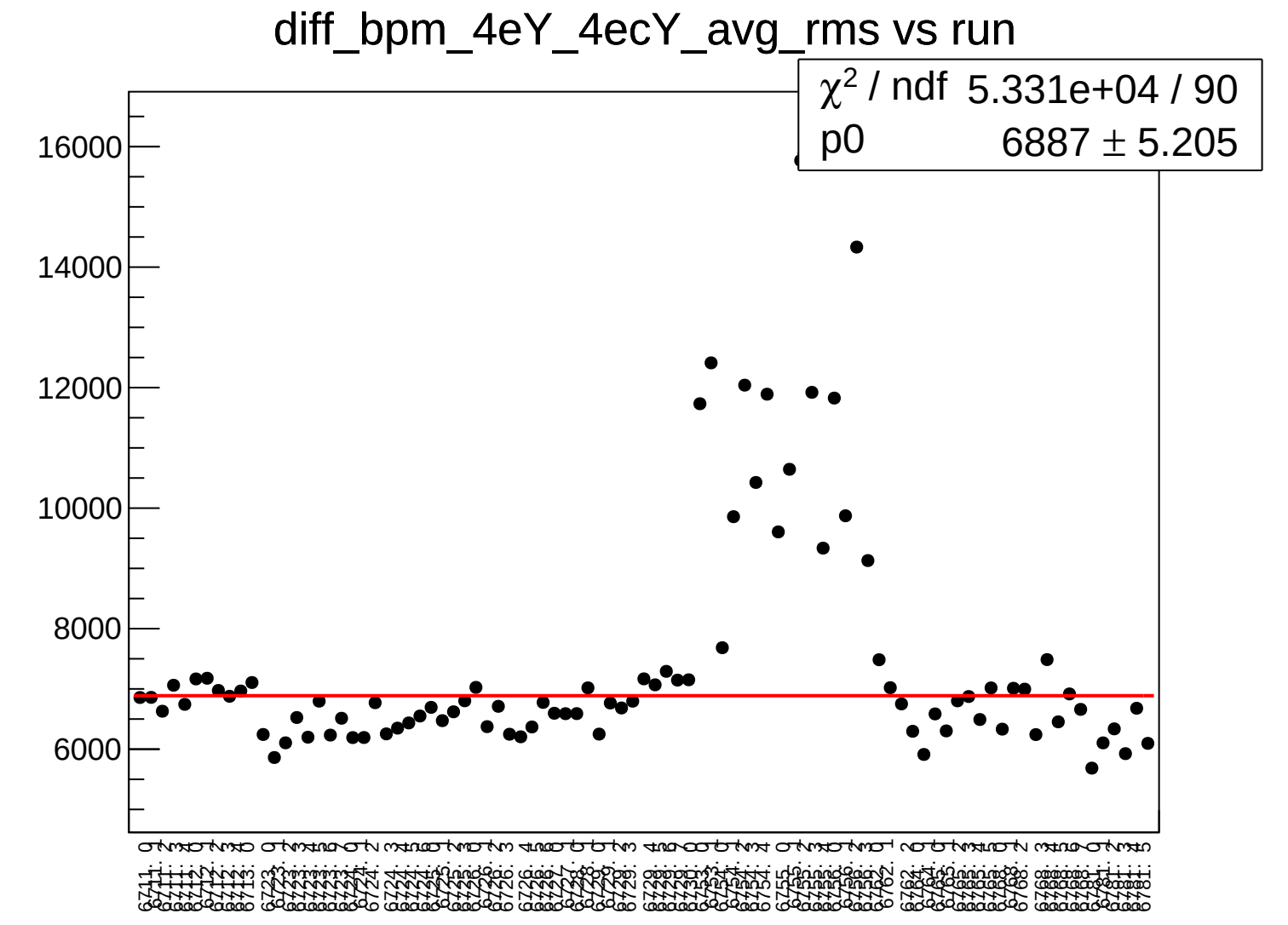

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 93.53 / 90
p0 1.139 ± 1.476
pull
Entries 91
Mean −1204
Std Dev 0

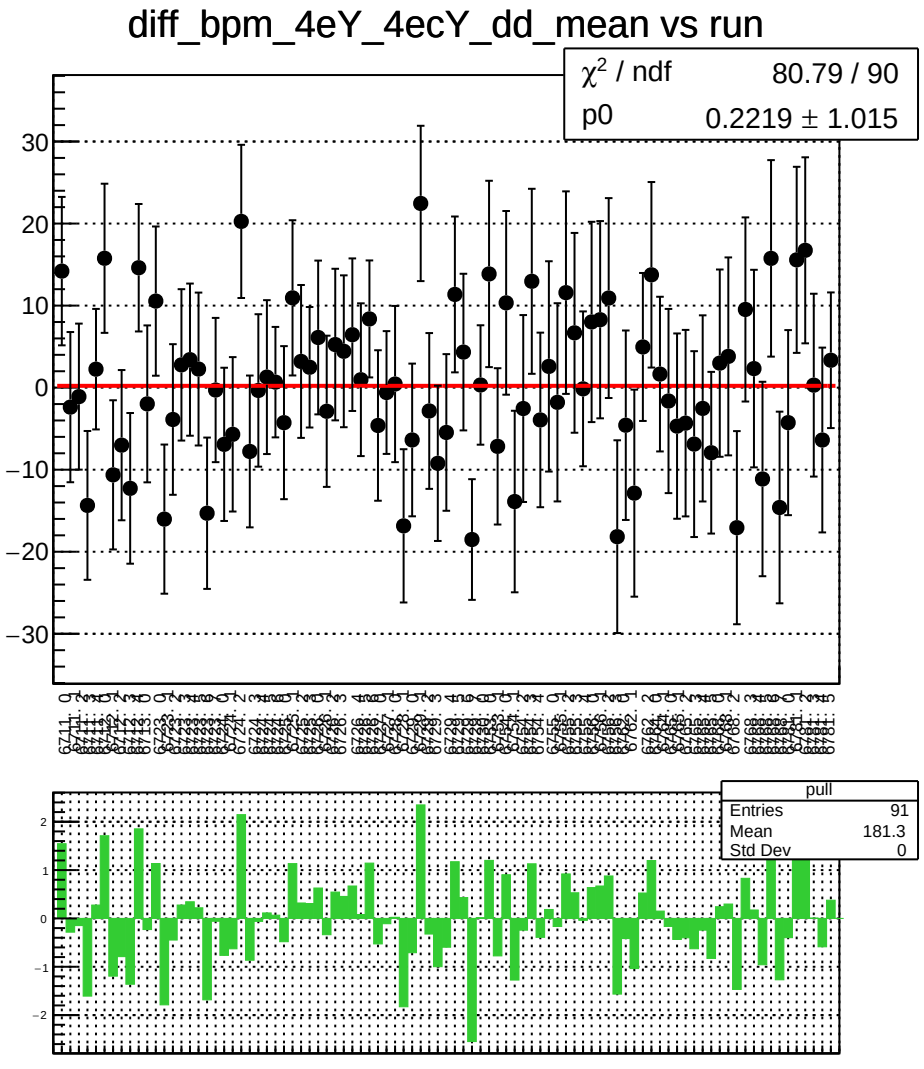

pull1D
Entries 91
Mean −0.001389
Std Dev 1.014

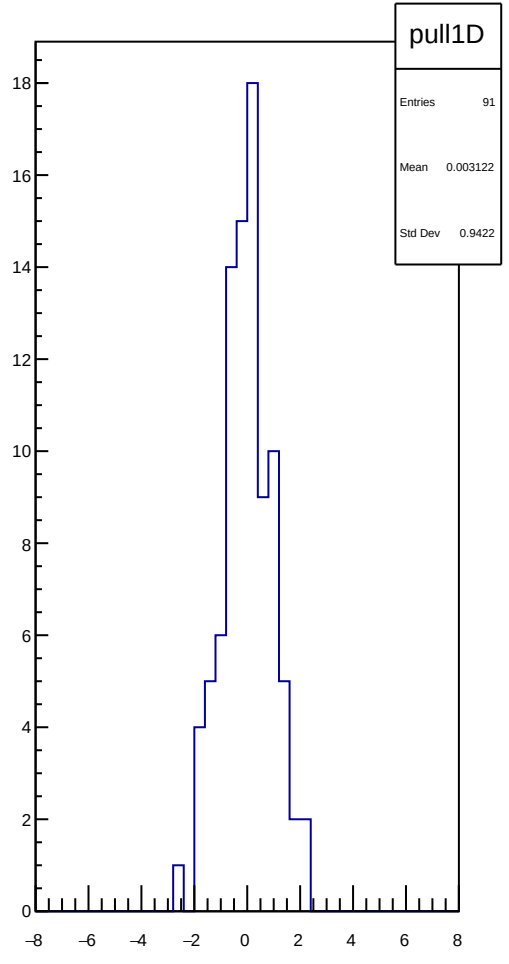

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 1.262e+05 / 90
p0 1352 ± 1.043
4500
4000
3500
3000
2500
2000
1500
1000

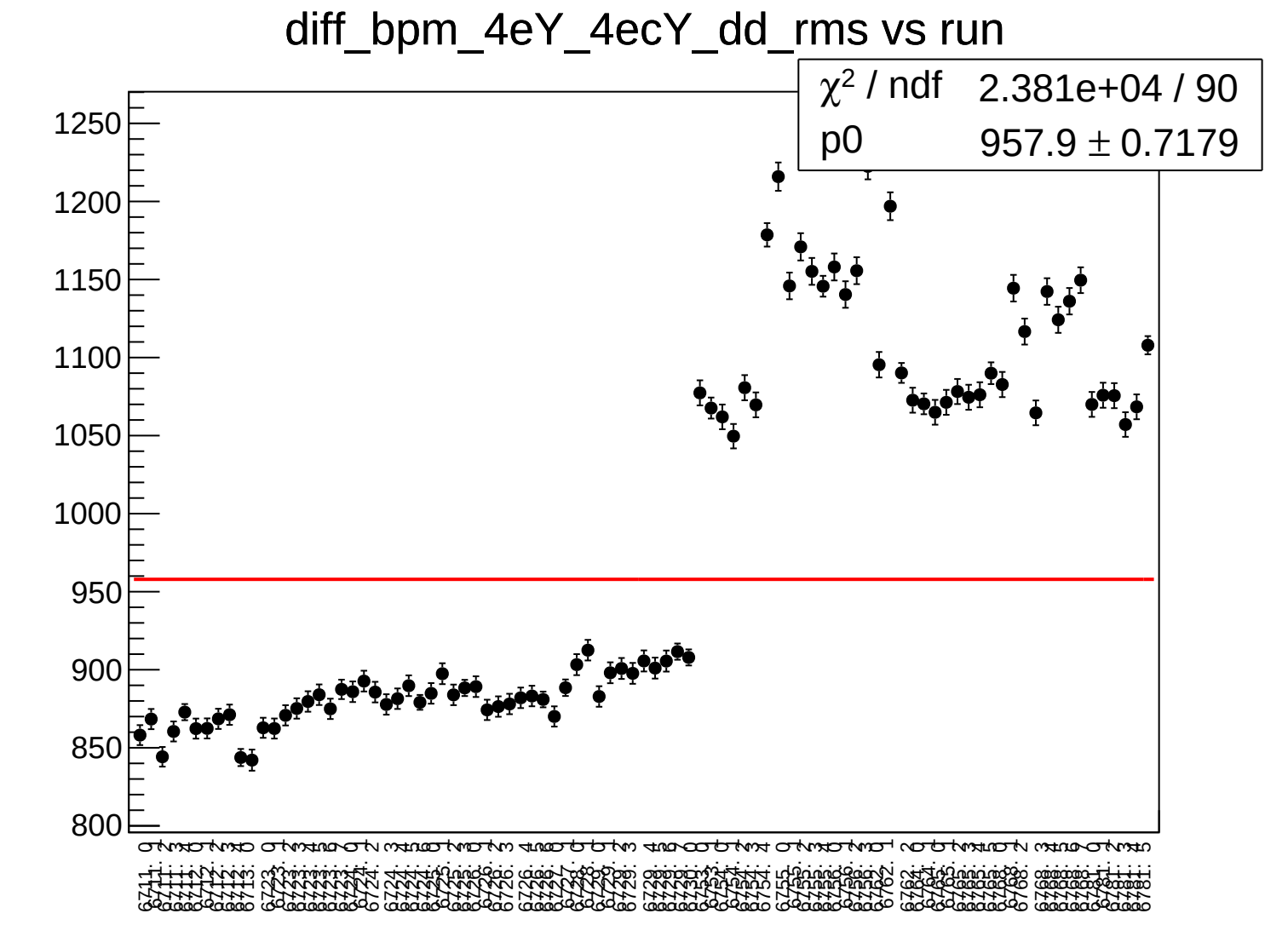

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 95.44 / 90
p0 10.29 ± 7.361
pull
Entries 91
Mean −1009
Std Dev 0

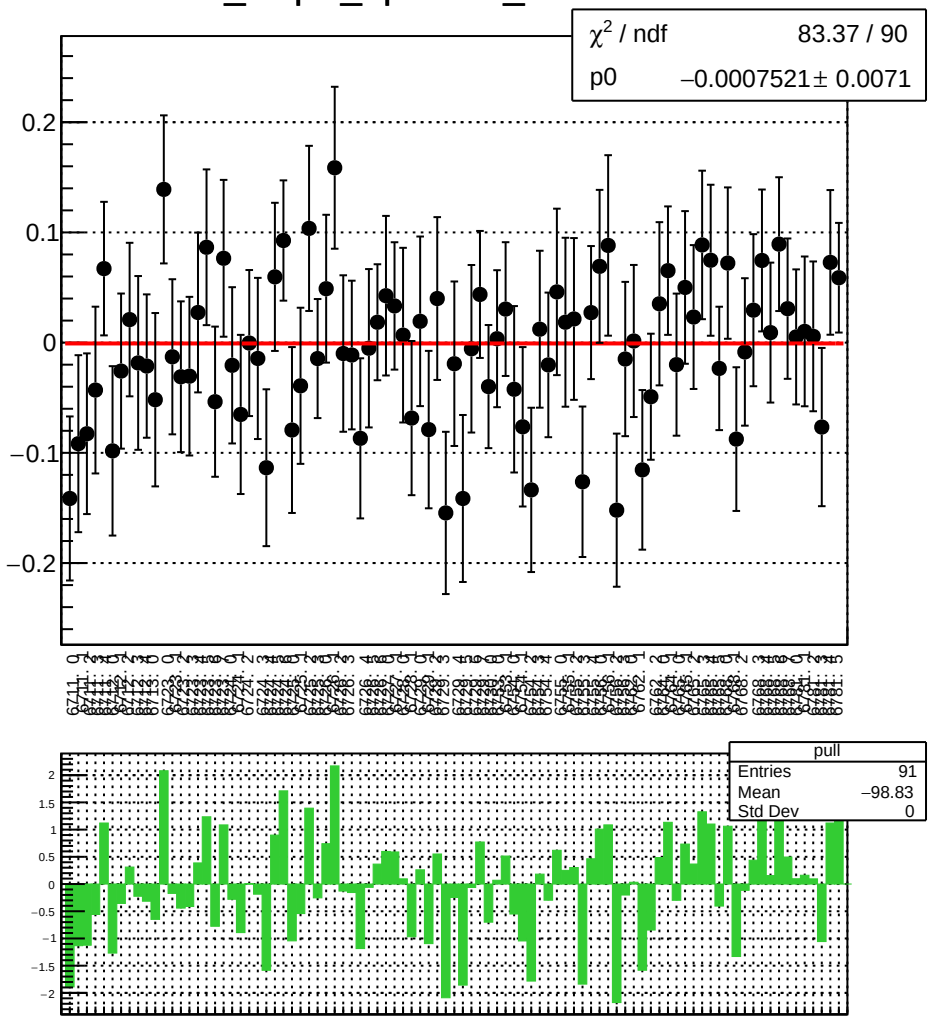

pull1D
Entries 91
Mean −0.002154
Std Dev 1.024

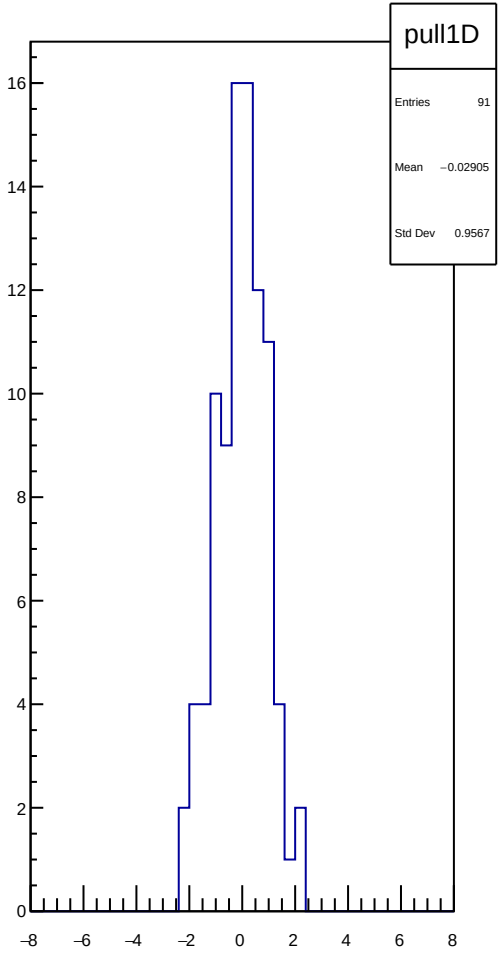

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 5.331e+04 / 90
p0 6887 ± 5.205
16000
14000
12000
10000
8000
6000

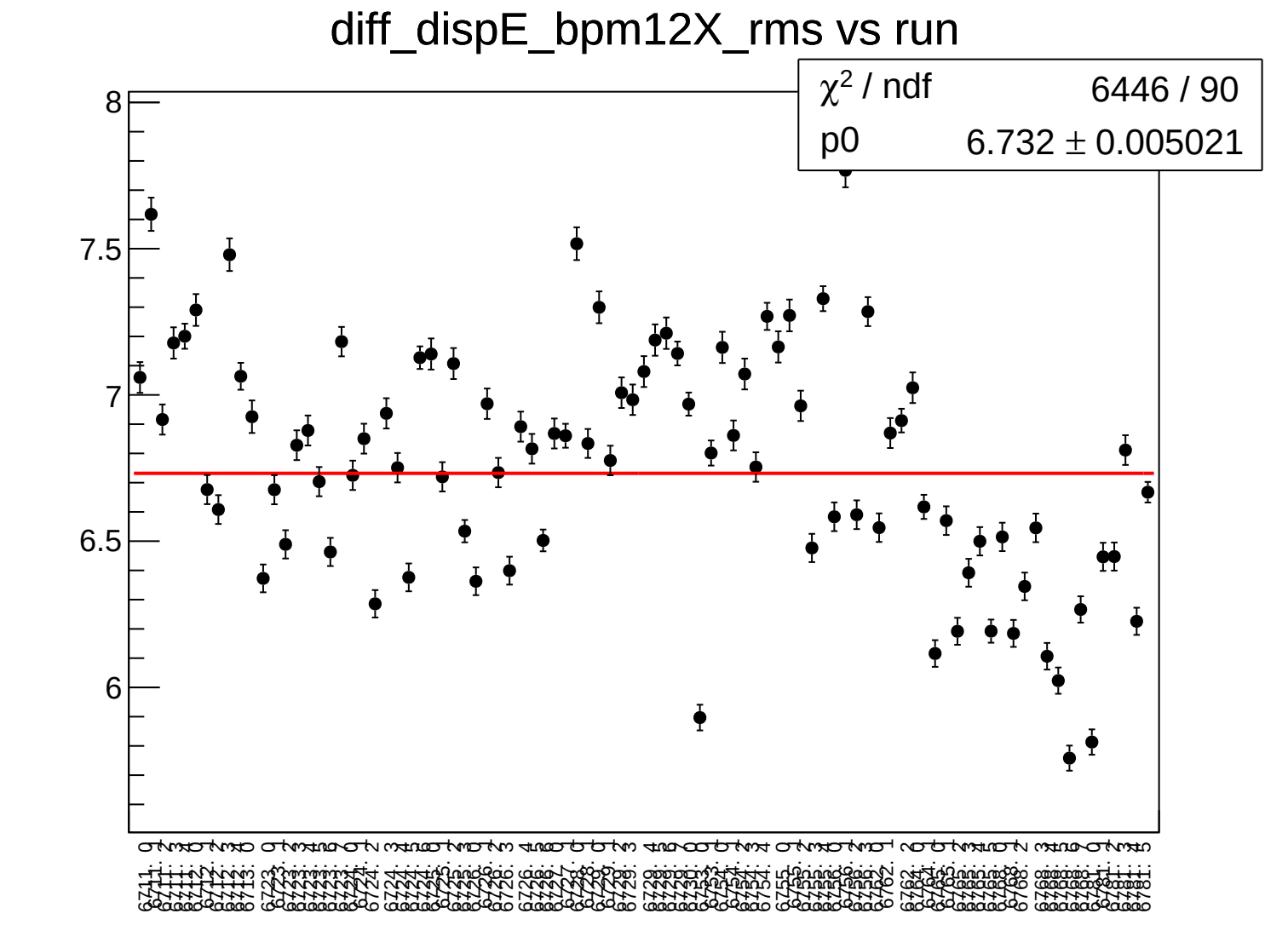

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 80.79 / 90
p0 0.2219 ± 1.015
pull
Entries 91
Mean 181.3
Std Dev 0

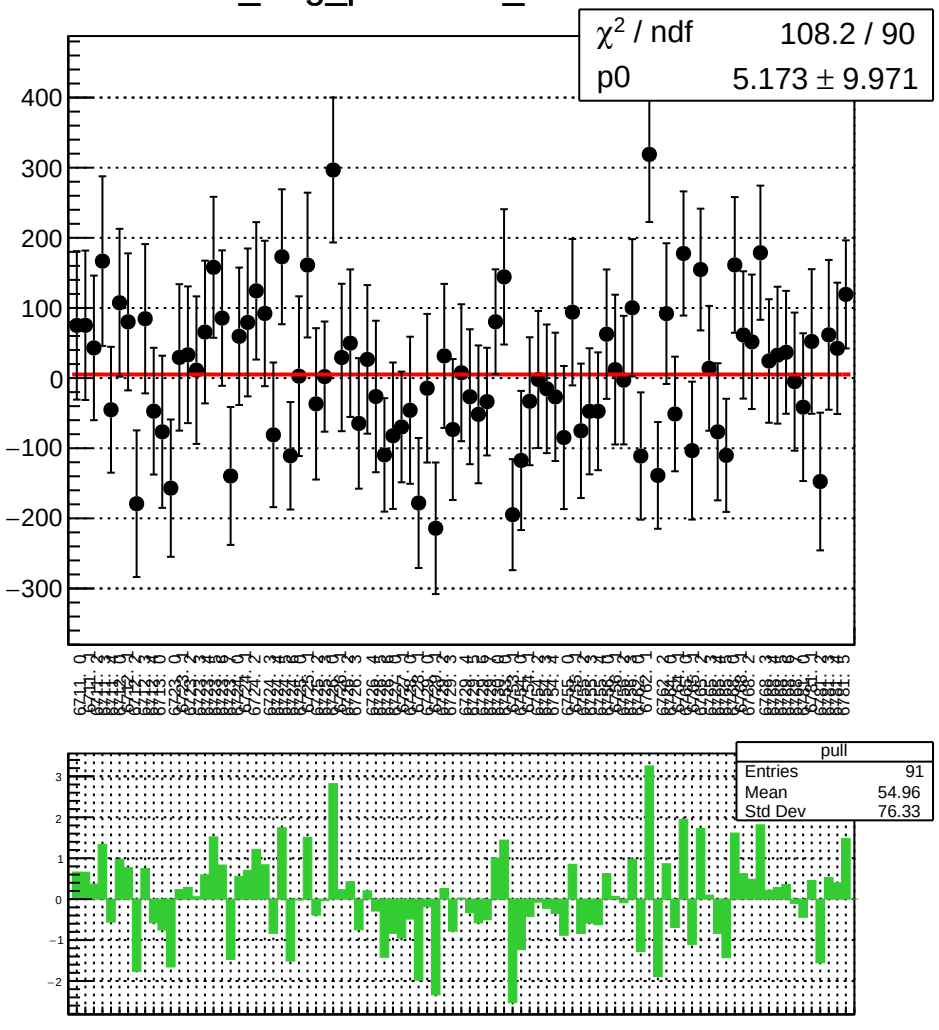

pull1D
Entries 91
Mean 0.003122
Std Dev 0.9422

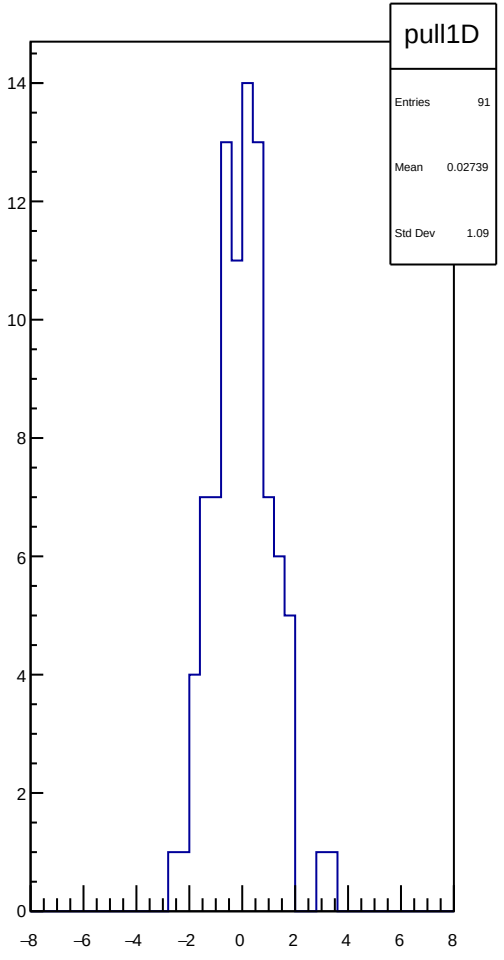

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 2.381e+04 / 90
p0 957.9 ± 0.7179
1250
1200
1150
1100
1050
1000
950
900
850
800

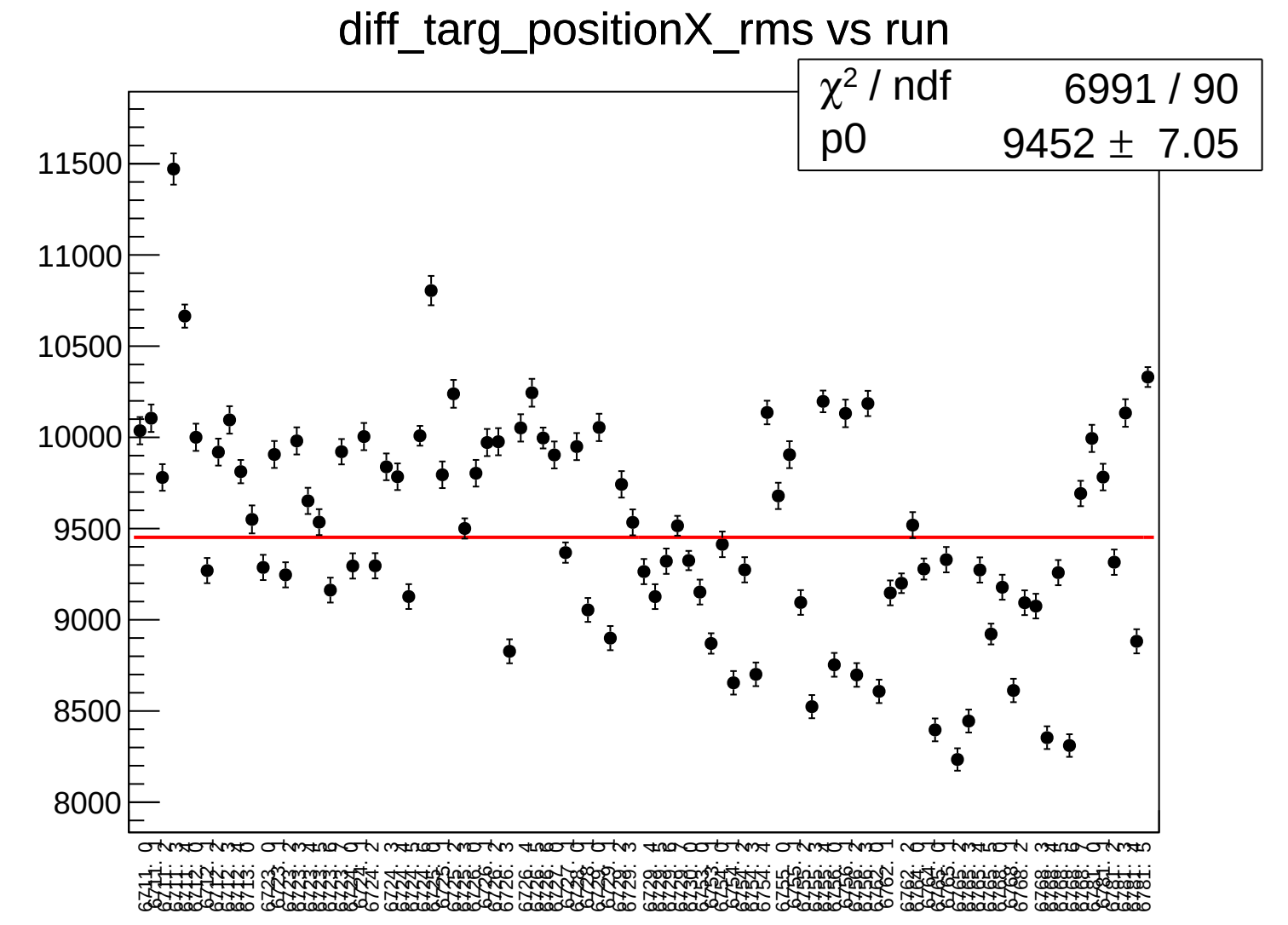

diff_dispE_bpm12X_mean vs run
χ² / ndf 83.37 / 90
p0 −0.0007521 ± 0.0071
pull
Entries 91
Mean −98.83
Std Dev 0

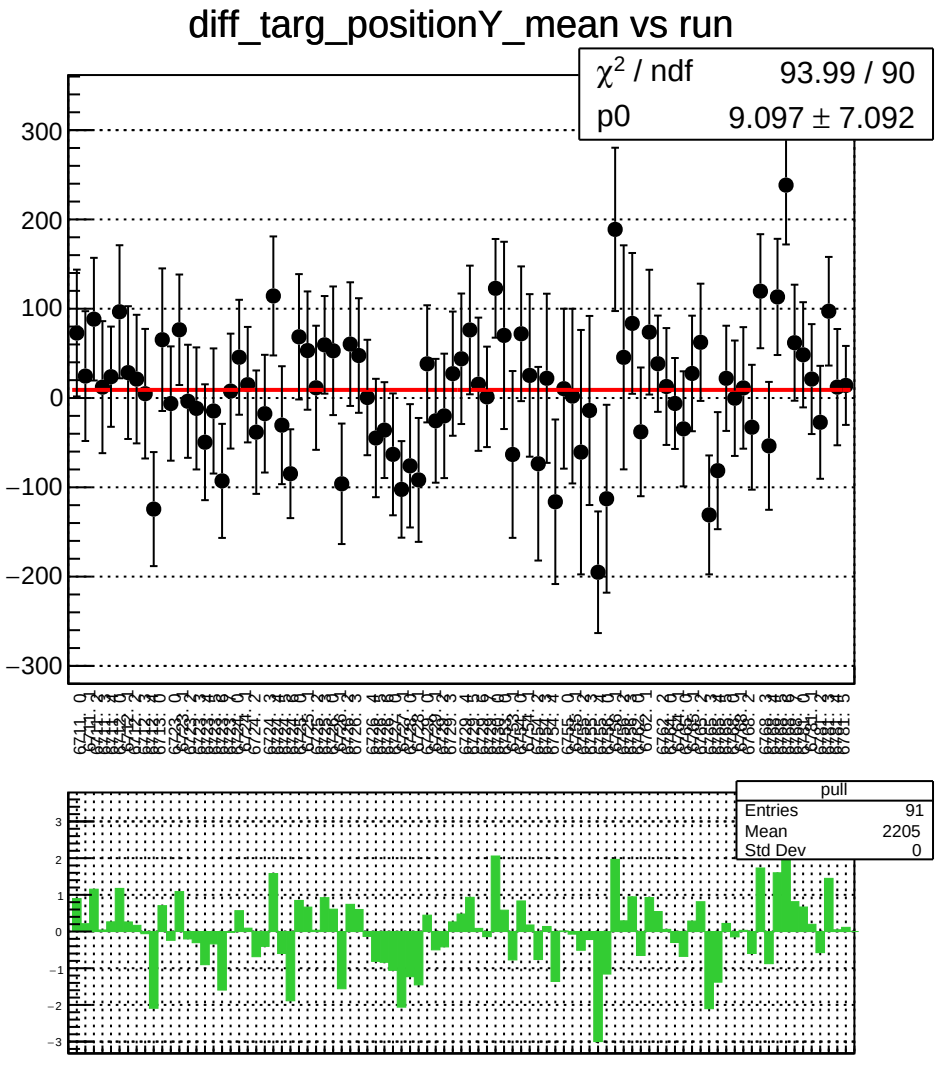

pull1D
Entries 91
Mean −0.02905
Std Dev 0.9567

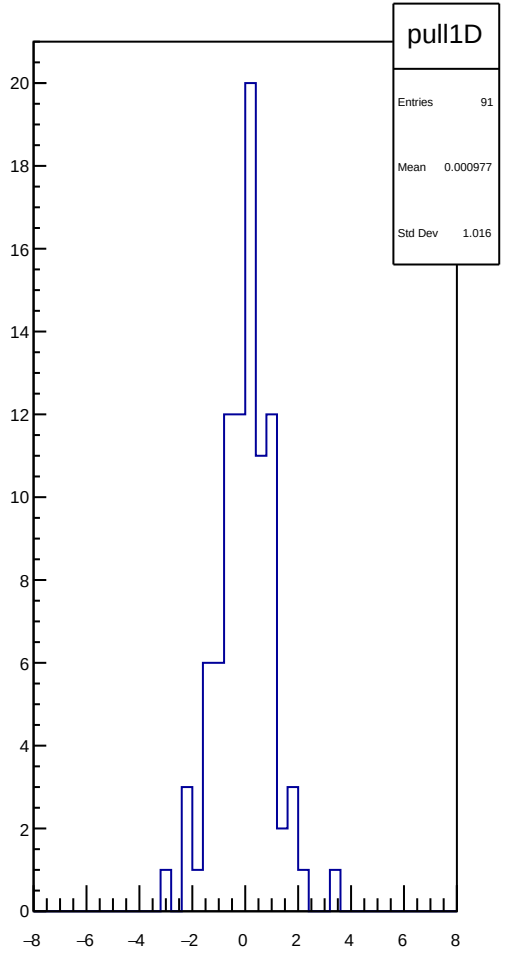

diff_dispE_bpm12X_rms vs run
χ² / ndf 6446 / 90
p0 6.732 ± 0.005021
8
7.5
7
6.5
6

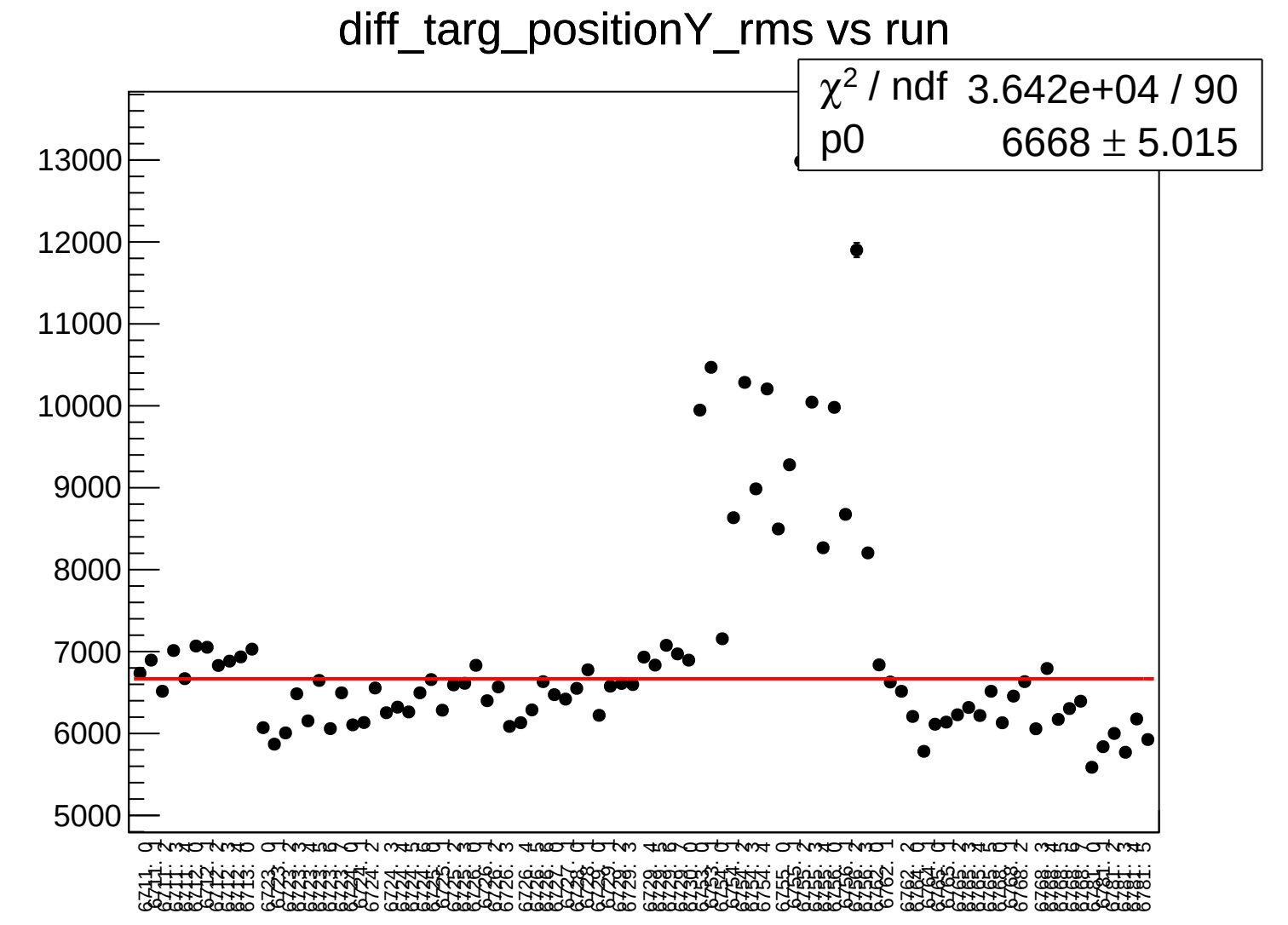

diff_targ_positionX_mean vs run
χ² / ndf 108.2 / 90
p0 5.173 ± 9.971
pull
Entries 91
Mean 54.96
Std Dev 76.33

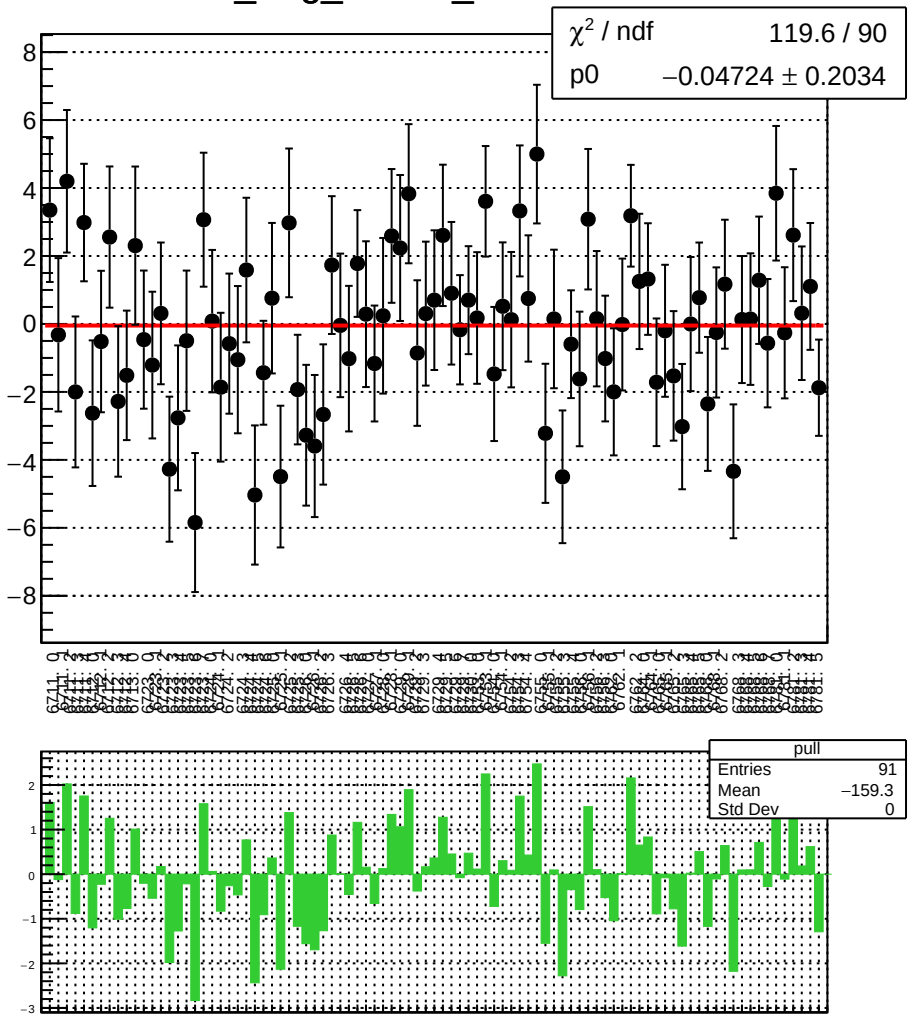

pull1D
Entries 91
Mean 0.02739
Std Dev 1.09

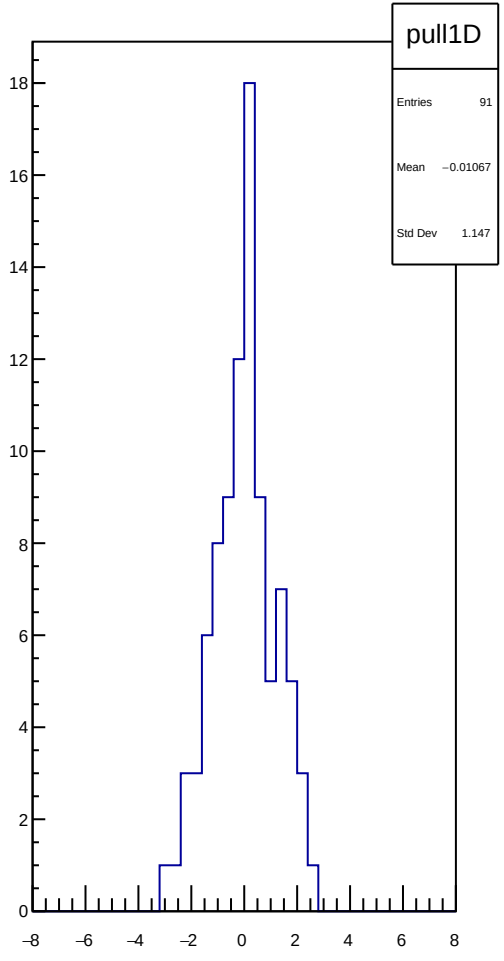

diff_targ_positionX_rms vs run
χ² / ndf 6991 / 90
p0 9452 ± 7.05
11500
11000
10500
10000
9500
9000
8500
8000

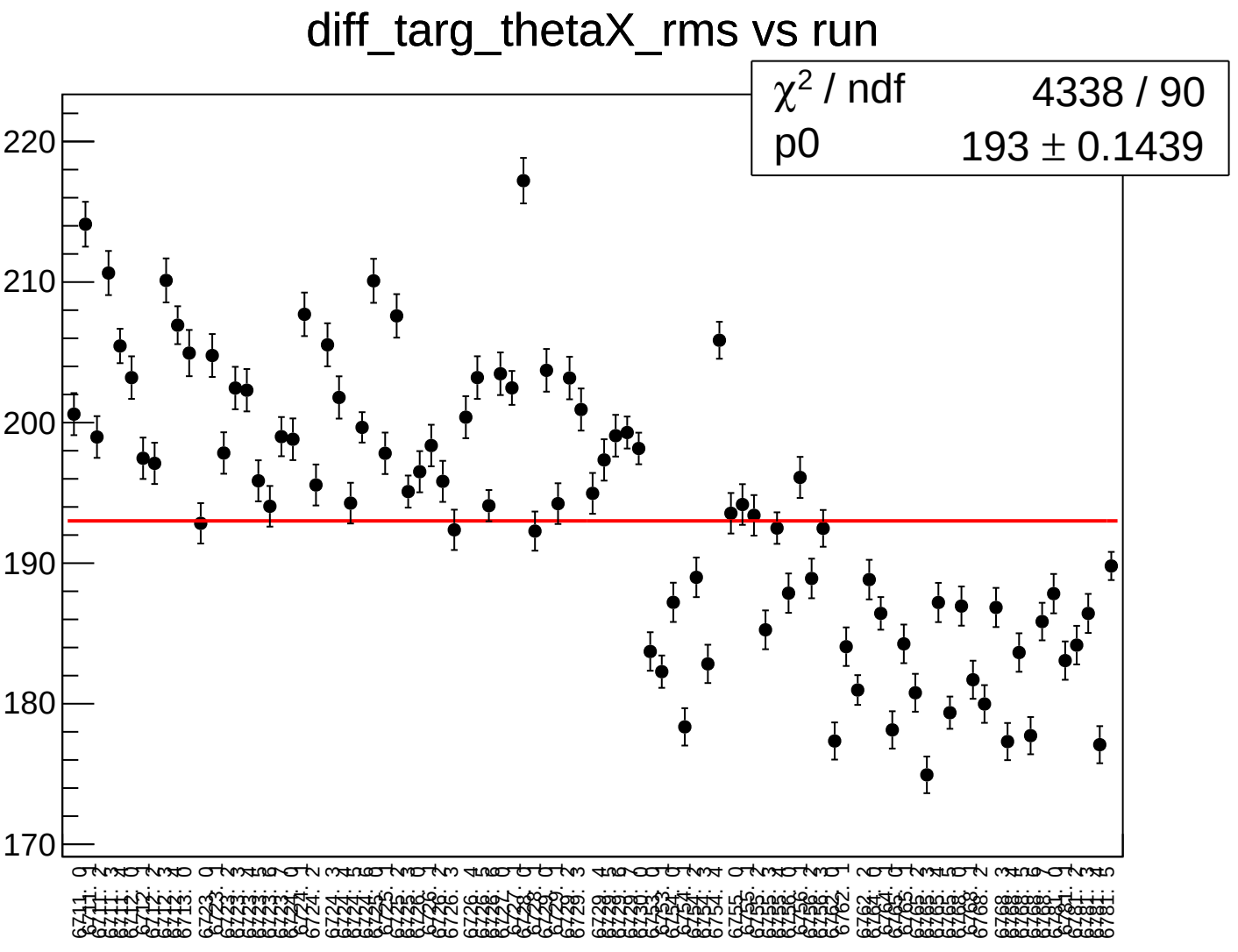

diff_targ_positionY_mean vs run
χ² / ndf 93.99 / 90
p0 9.097 ± 7.092
pull
Entries 91
Mean 2205
Std Dev 0

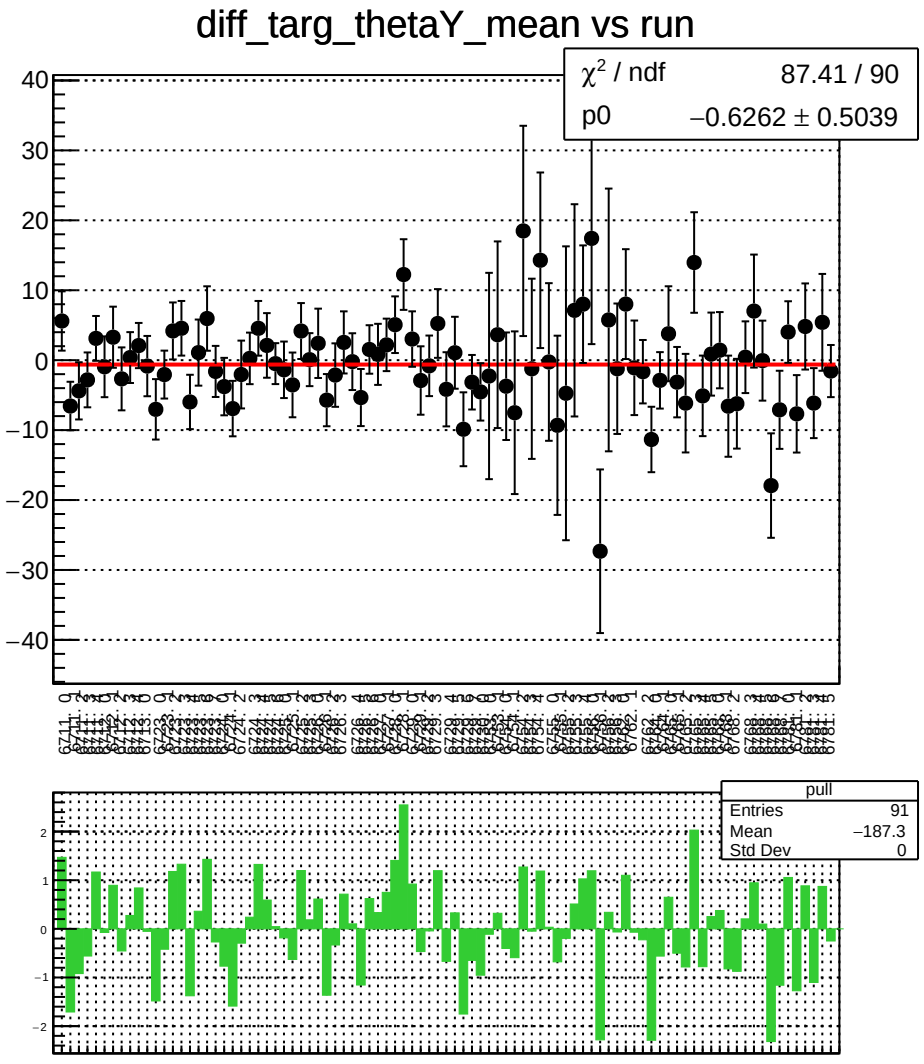

pull1D
Entries 91
Mean 0.000977
Std Dev 1.016

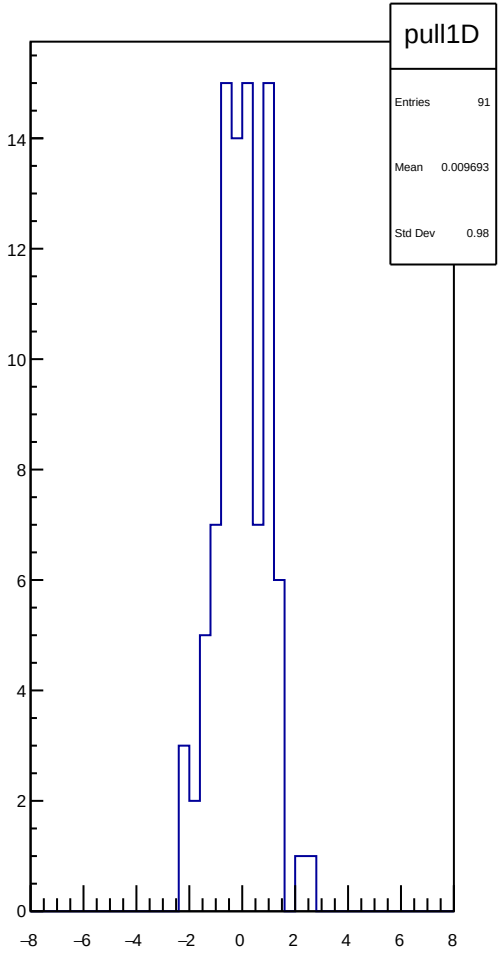

diff_targ_positionY_rms vs run
χ^2 / ndf 3.642e+04 / 90
p0 6668 ± 5.015
13000
12000
11000
10000
9000
8000
7000
6000
5000

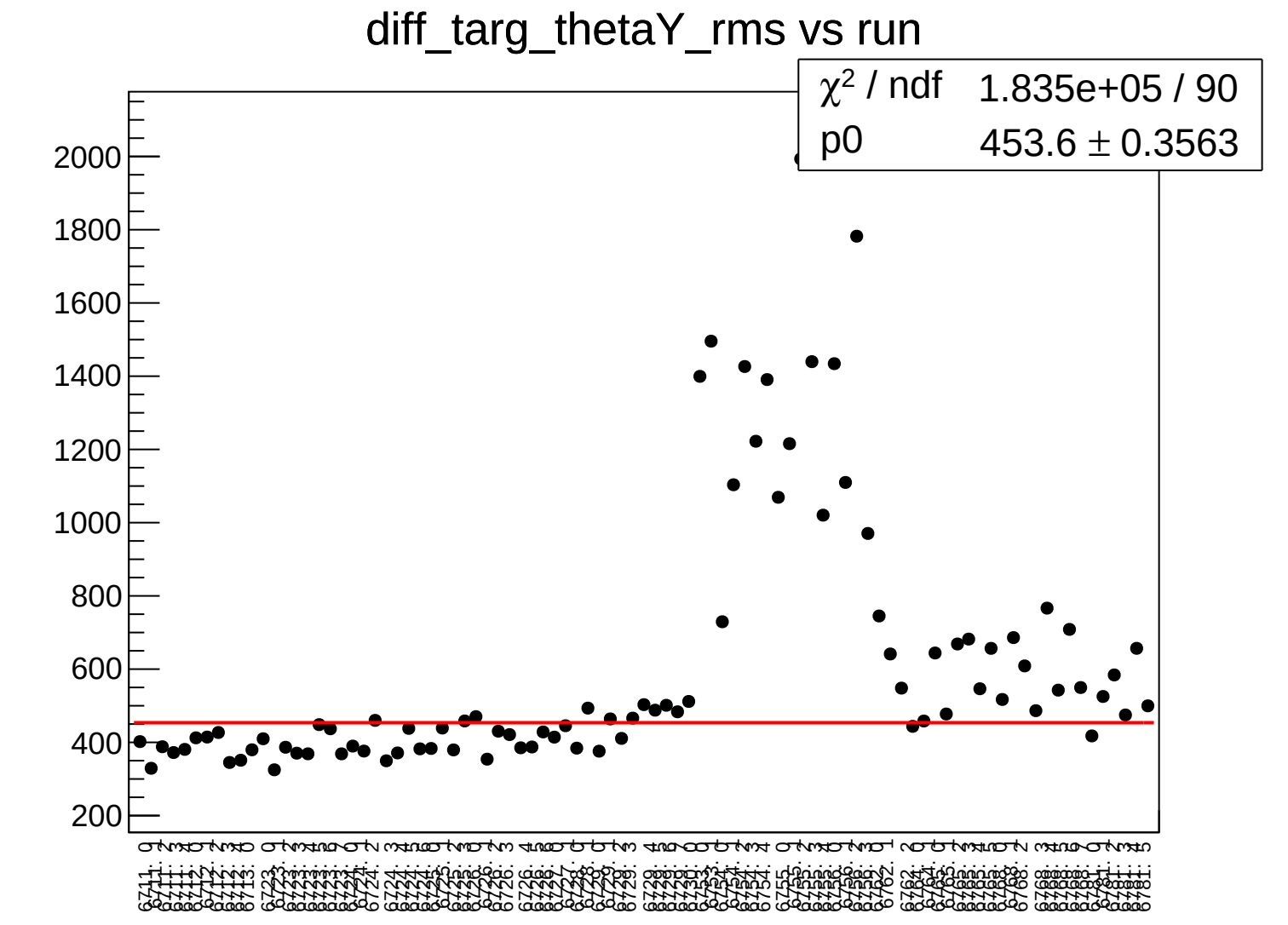

diff_targ_thetaX_mean vs run
χ² / ndf 119.6 / 90
p0 −0.04724 ± 0.2034
pull
Entries 91
Mean −159.3
Std Dev 0

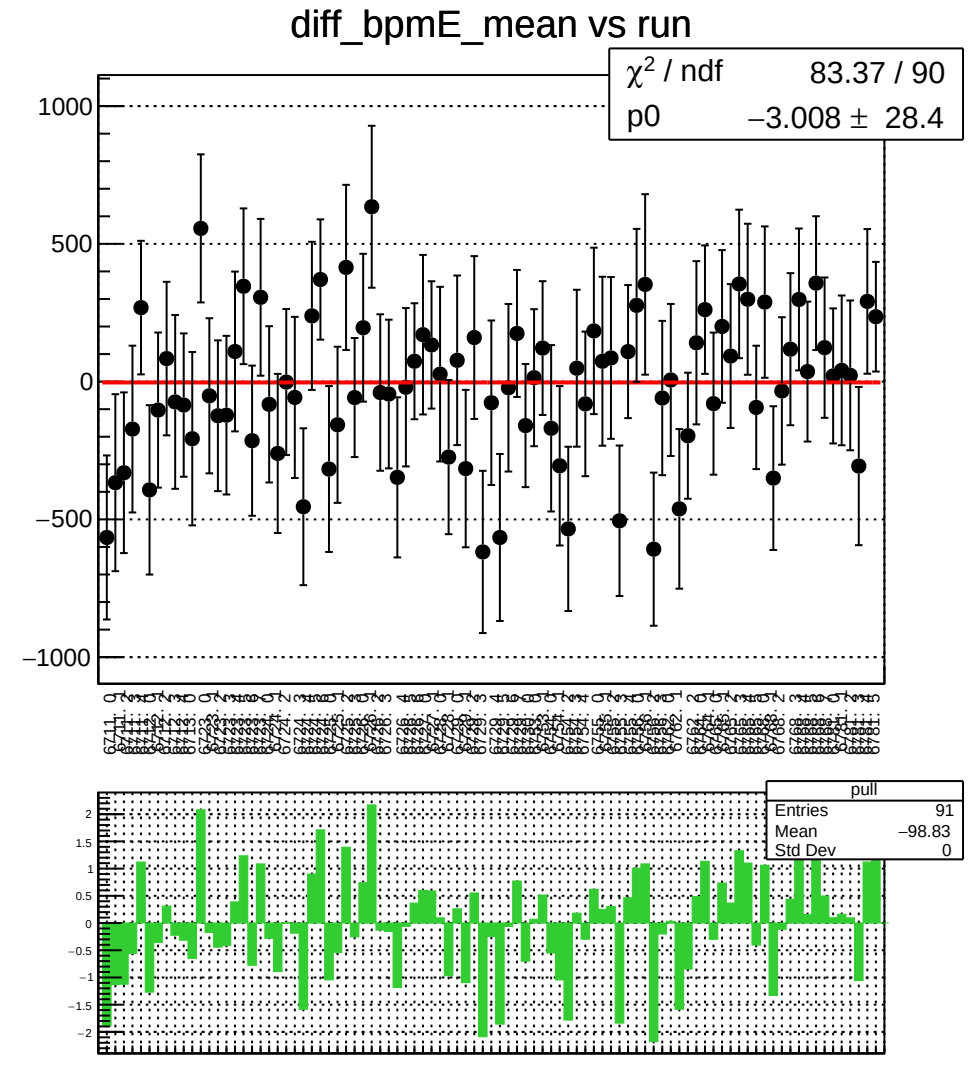

pull1D
Entries 91
Mean −0.01067
Std Dev 1.147

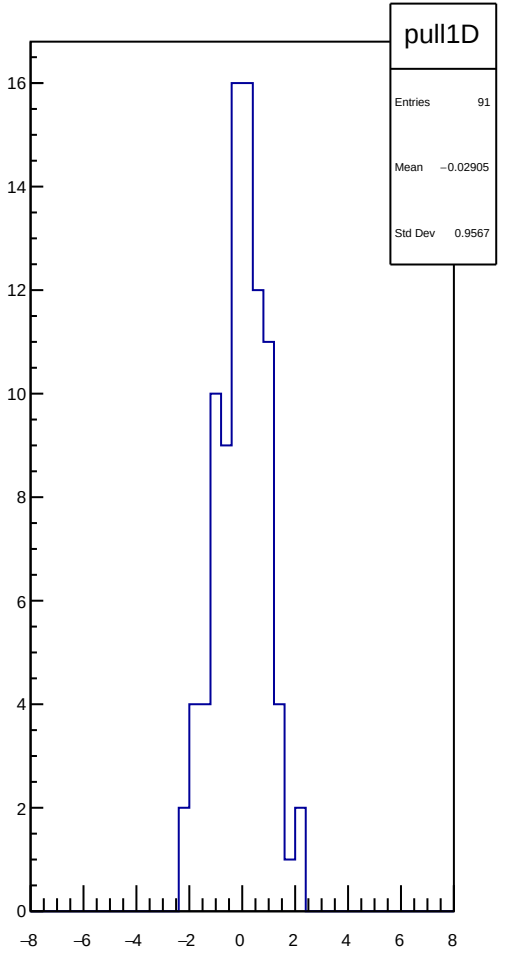

diff_targ_thetaX_rms vs run
χ^2 / ndf 4338 / 90
p0 193 ± 0.1439
220
210
200
190
180
170

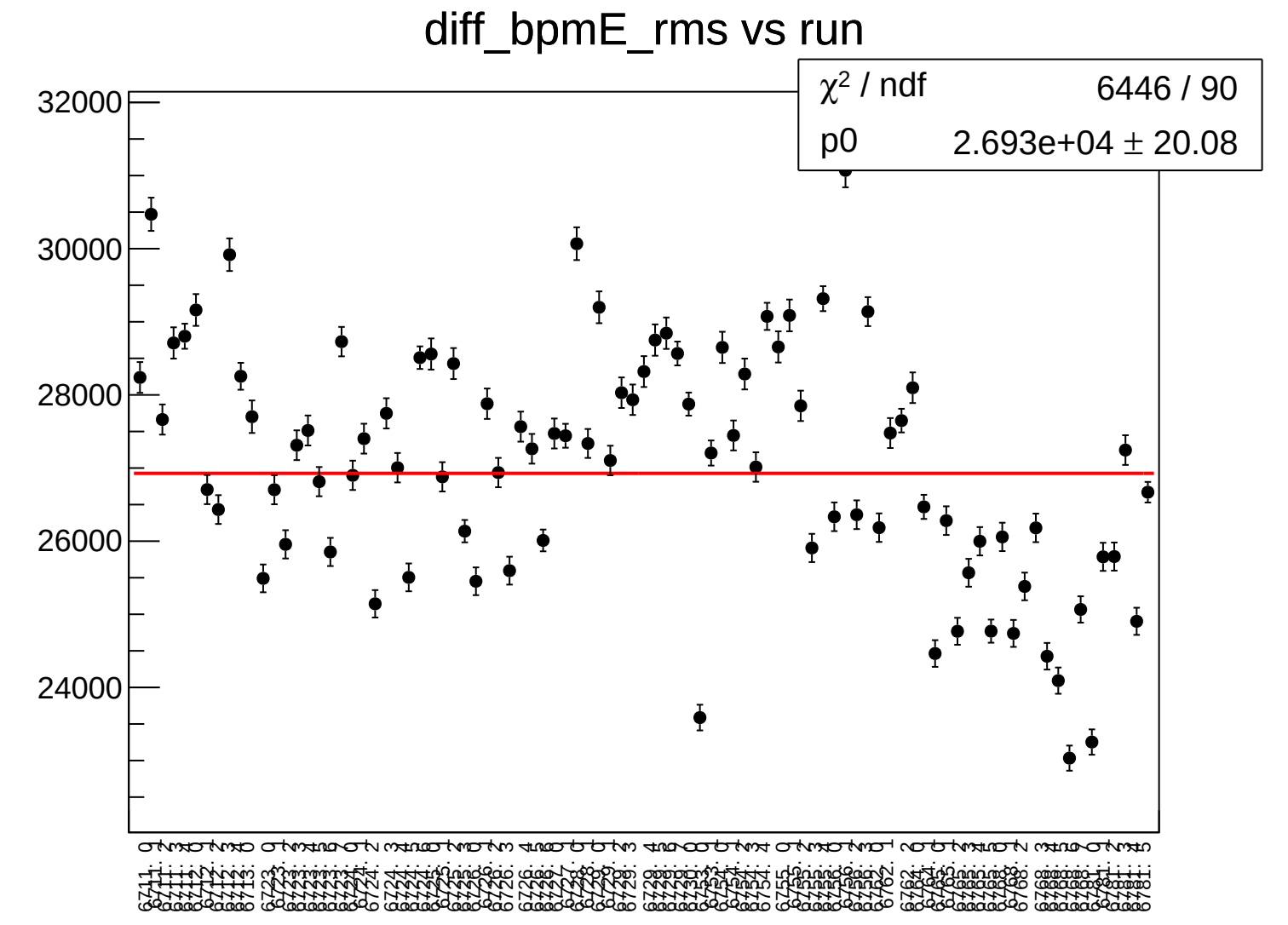

diff_targ_thetaY_mean vs run
χ² / ndf 87.41 / 90
p0 −0.6262 ± 0.5039
pull
Entries 91
Mean −187.3
Std Dev 0

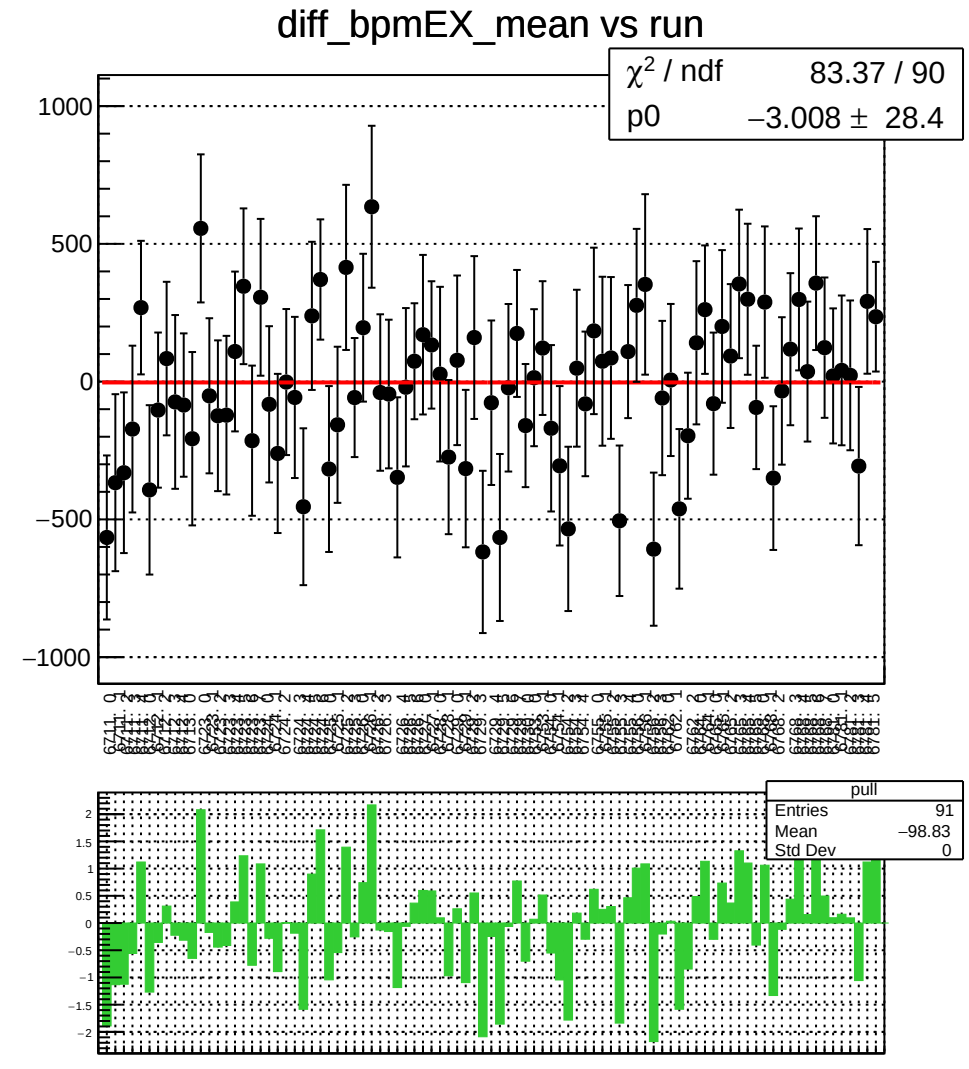

pull1D
Entries 91
Mean 0.009693
Std Dev 0.98

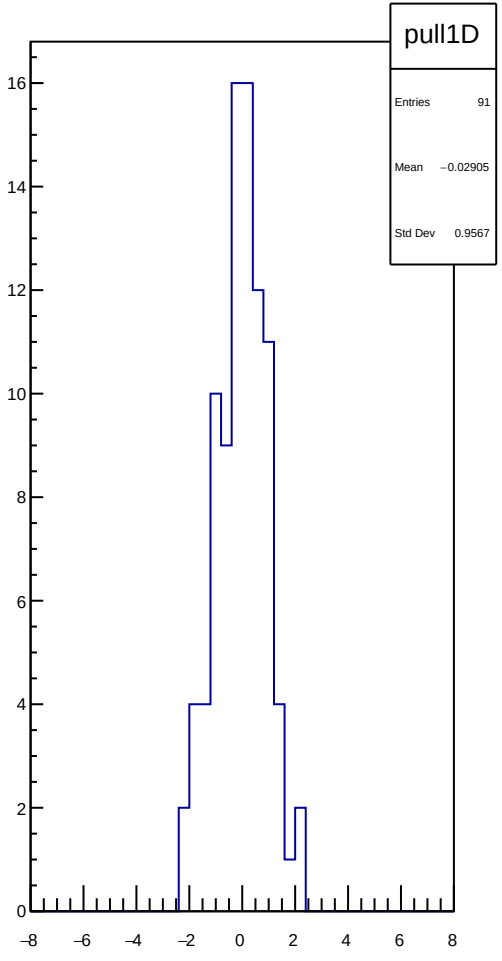

diff_targ_thetaY_rms vs run
χ^2 / ndf 1.835e+05 / 90
p0 453.6 ± 0.3563
2000
1800
1600
1400
1200
1000
800
600
400
200

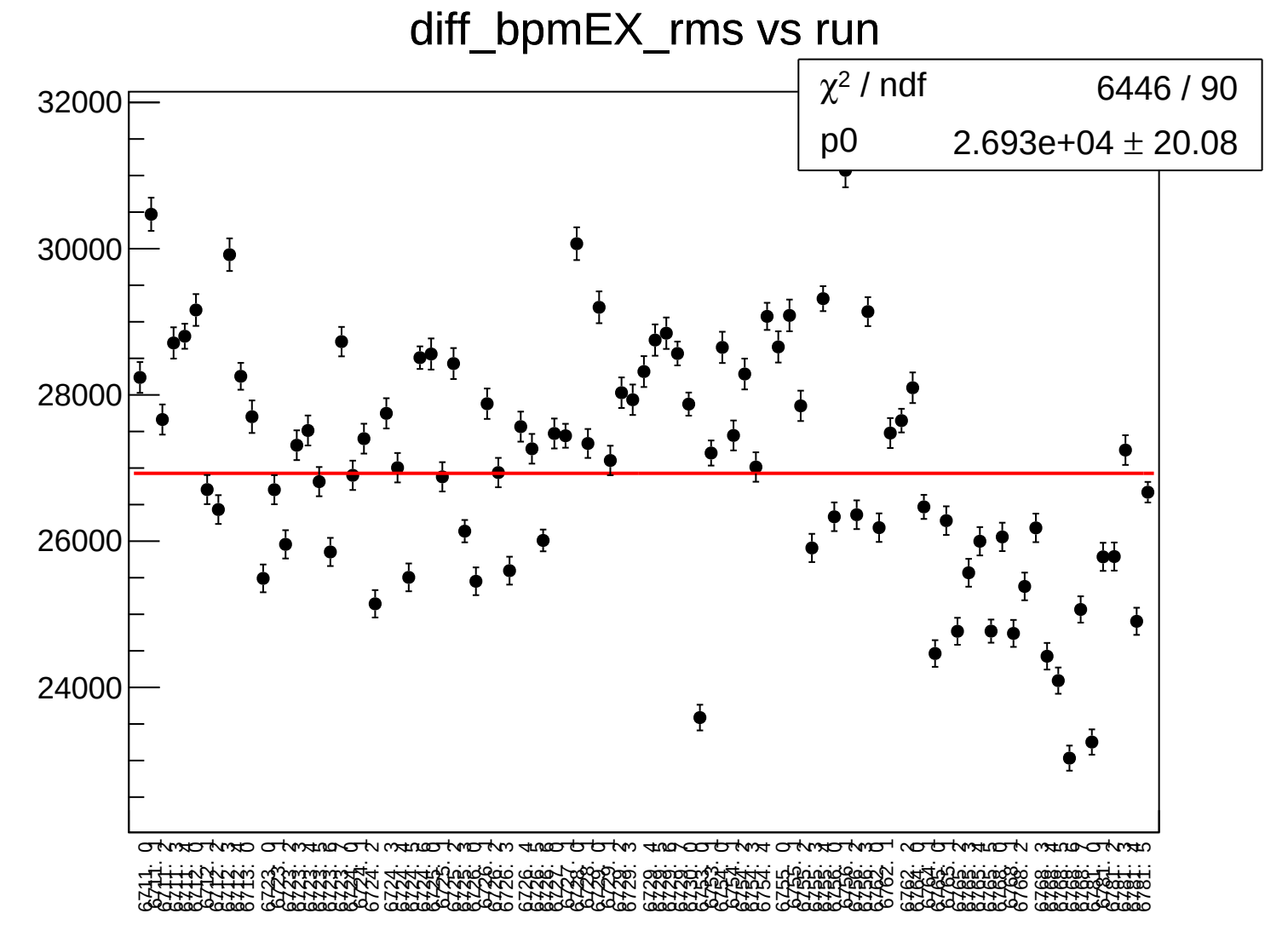

diff_bpmE_mean vs run
χ^2 / ndf 83.37 / 90
p0 −3.008 ± 28.4
1000
500
0
−500
−1000
pull
Entries 91
Mean −98.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

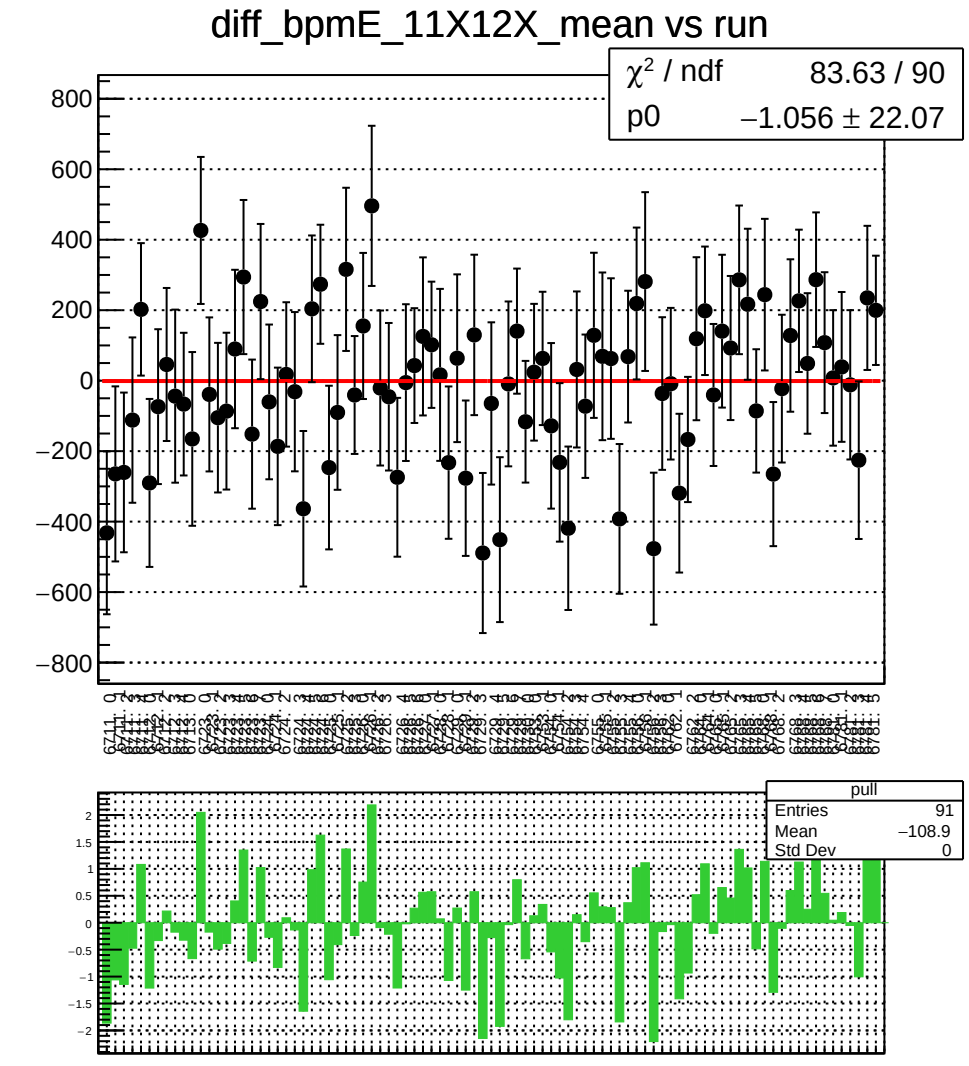

pull1D
Entries 91
Mean −0.02905
Std Dev 0.9567
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

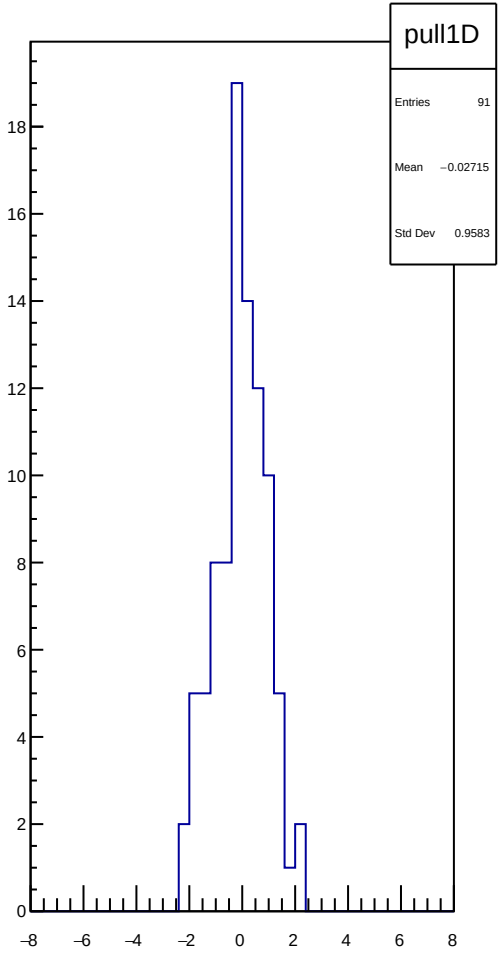

diff_bpmE_rms vs run
χ² / ndf 6446 / 90
p0 2.693e+04 ± 20.08
32000
30000
28000
26000
24000

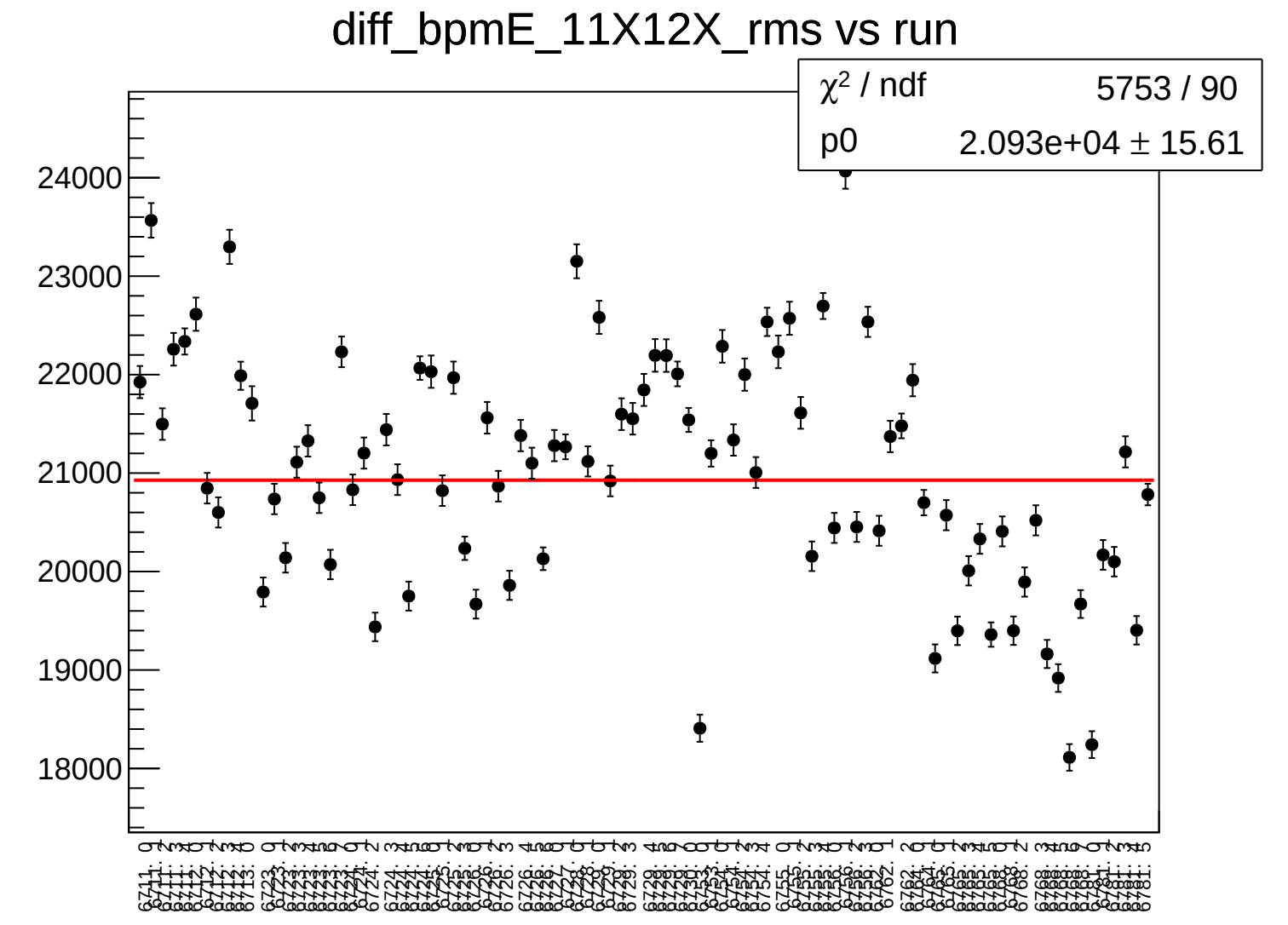

diff_bpmEX_mean vs run
χ² / ndf 83.37 / 90
p0 −3.008 ± 28.4
1000
500
0
−500
−1000
pull
Entries 91
Mean −98.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

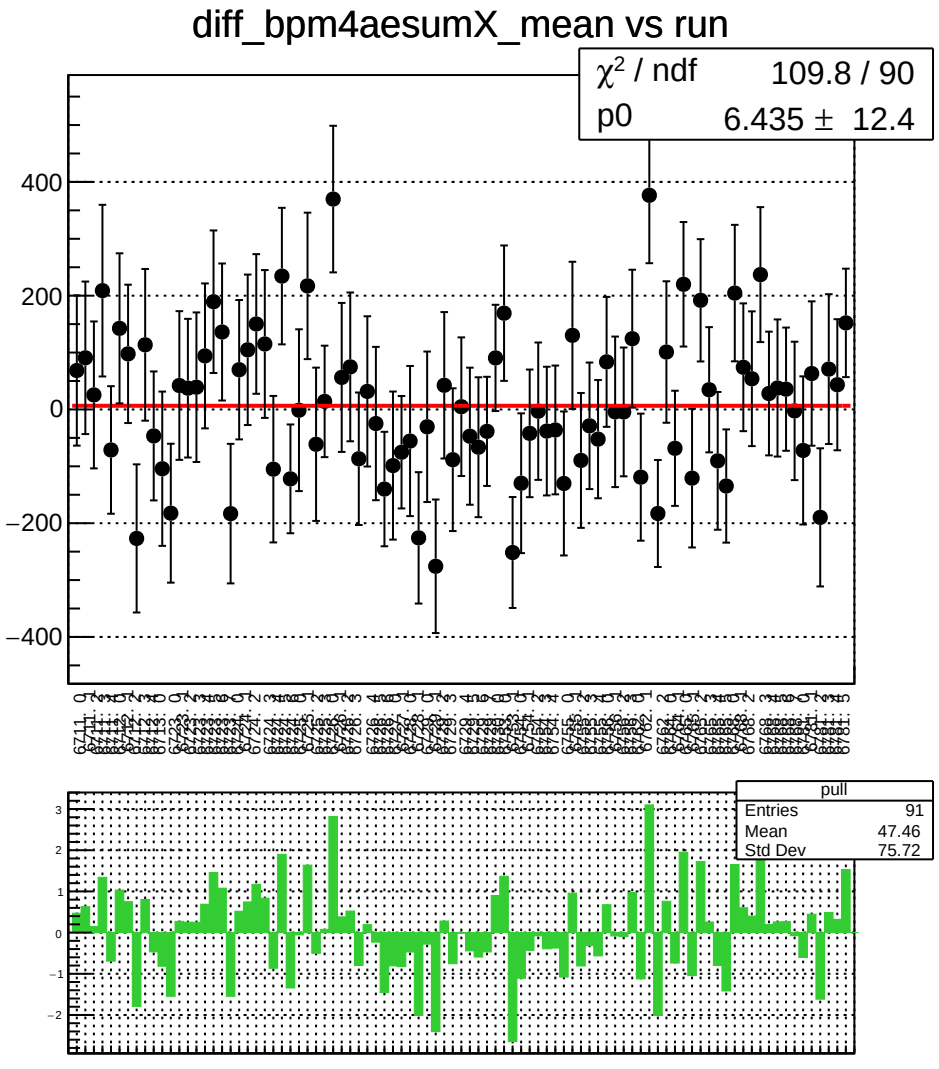

pull1D
Entries 91
Mean −0.02905
Std Dev 0.9567
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

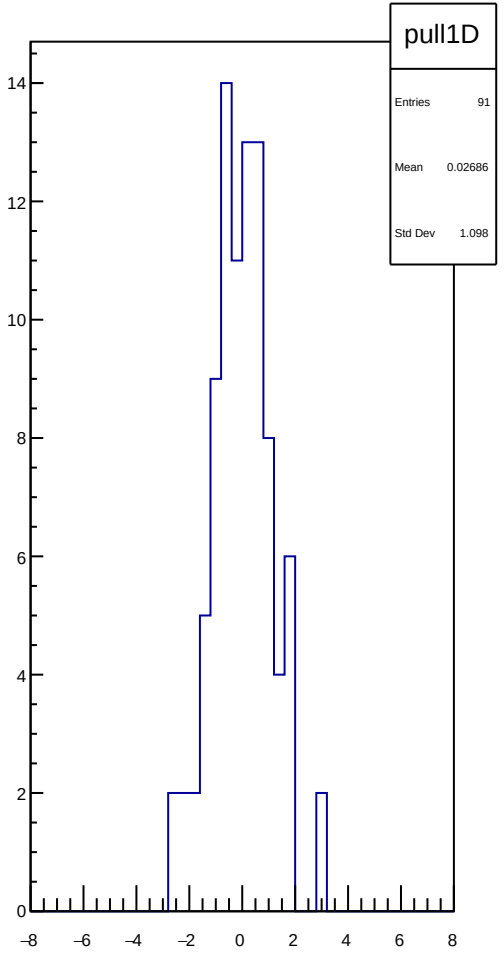

diff_bpmEX_rms vs run
χ² / ndf 6446 / 90
p0 2.693e+04 ± 20.08
32000
30000
28000
26000
24000

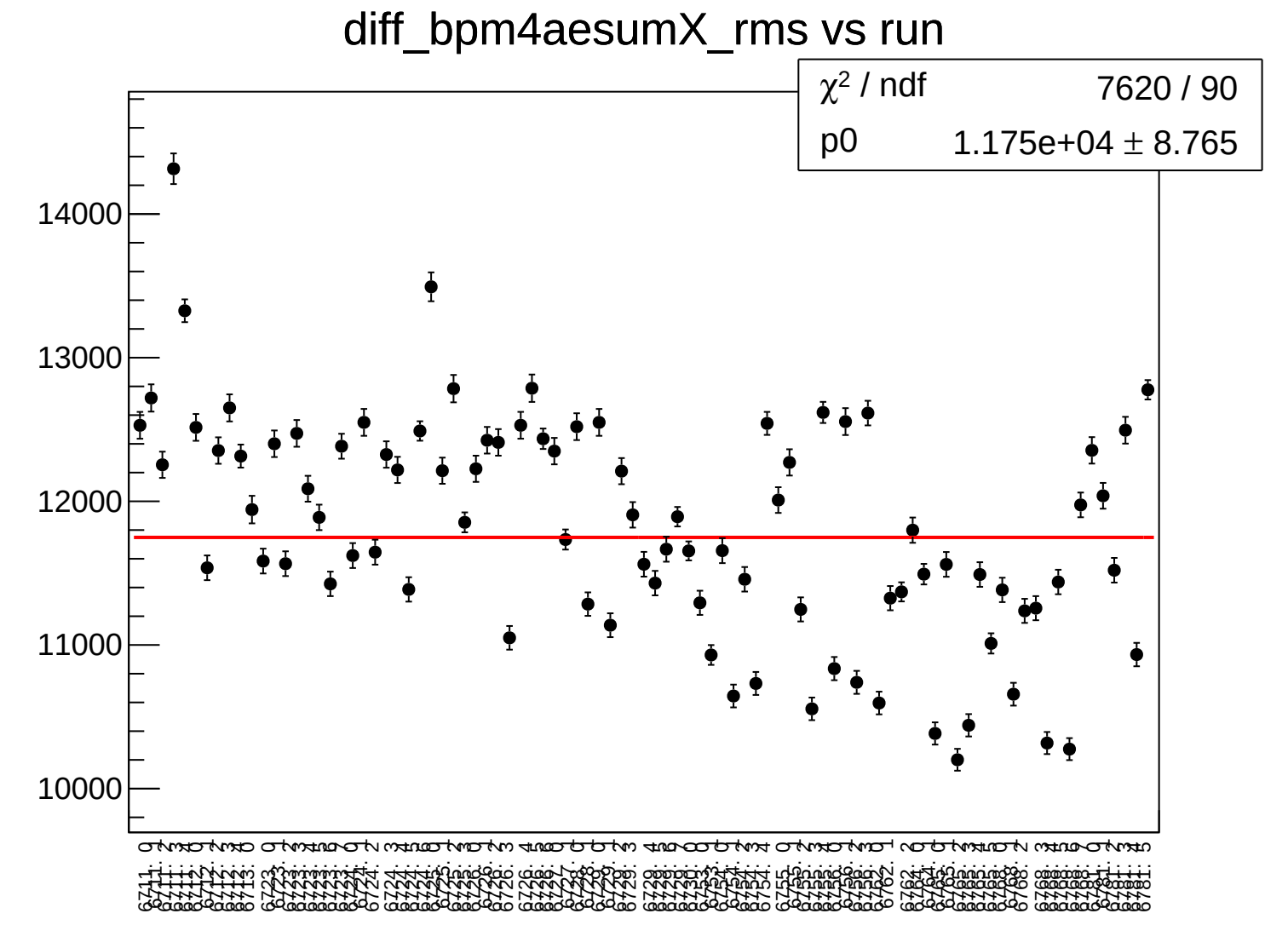

diff_bpmE_11X12X_mean vs run
χ² / ndf 83.63 / 90
p0 −1.056 ± 22.07
pull
Entries 91
Mean −108.9
Std Dev 0

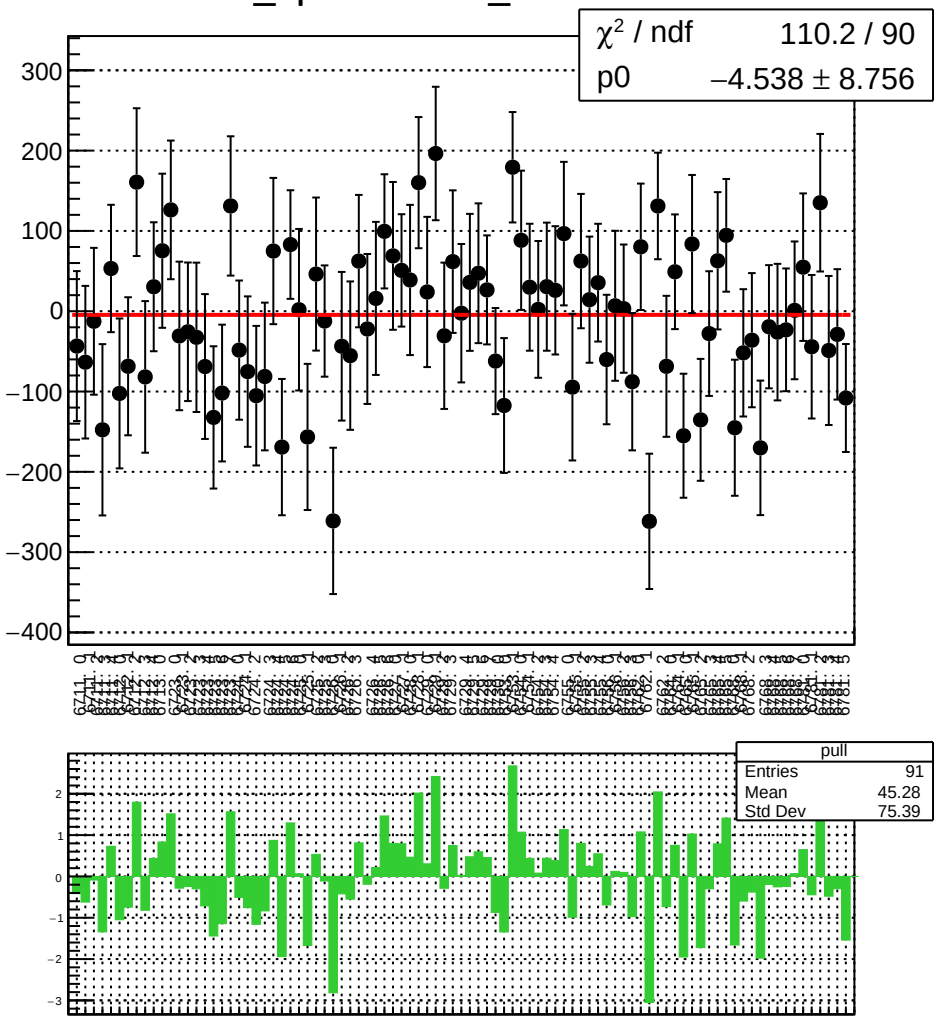

pull1D
Entries 91
Mean −0.02715
Std Dev 0.9583

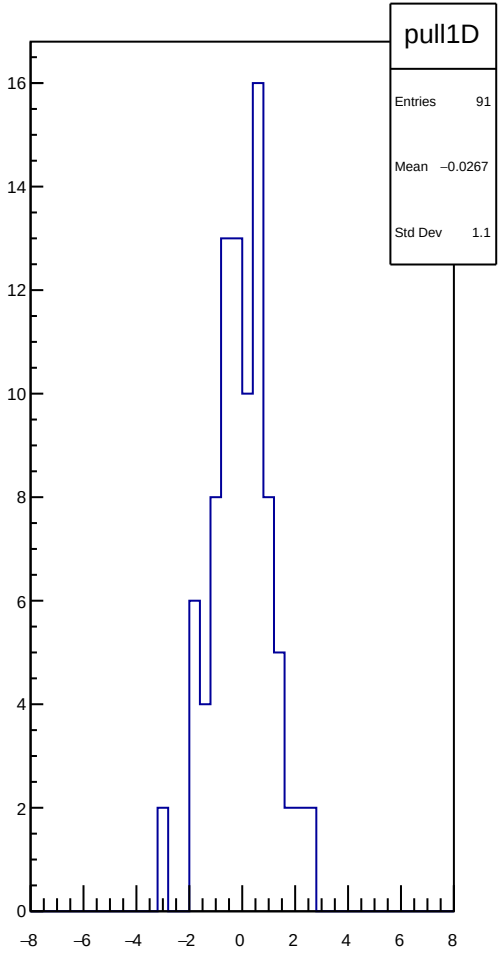

diff_bpmE_11X12X_rms vs run
χ² / ndf 5753 / 90
p0 2.093e+04 ± 15.61
24000
23000
22000
21000
20000
19000
18000

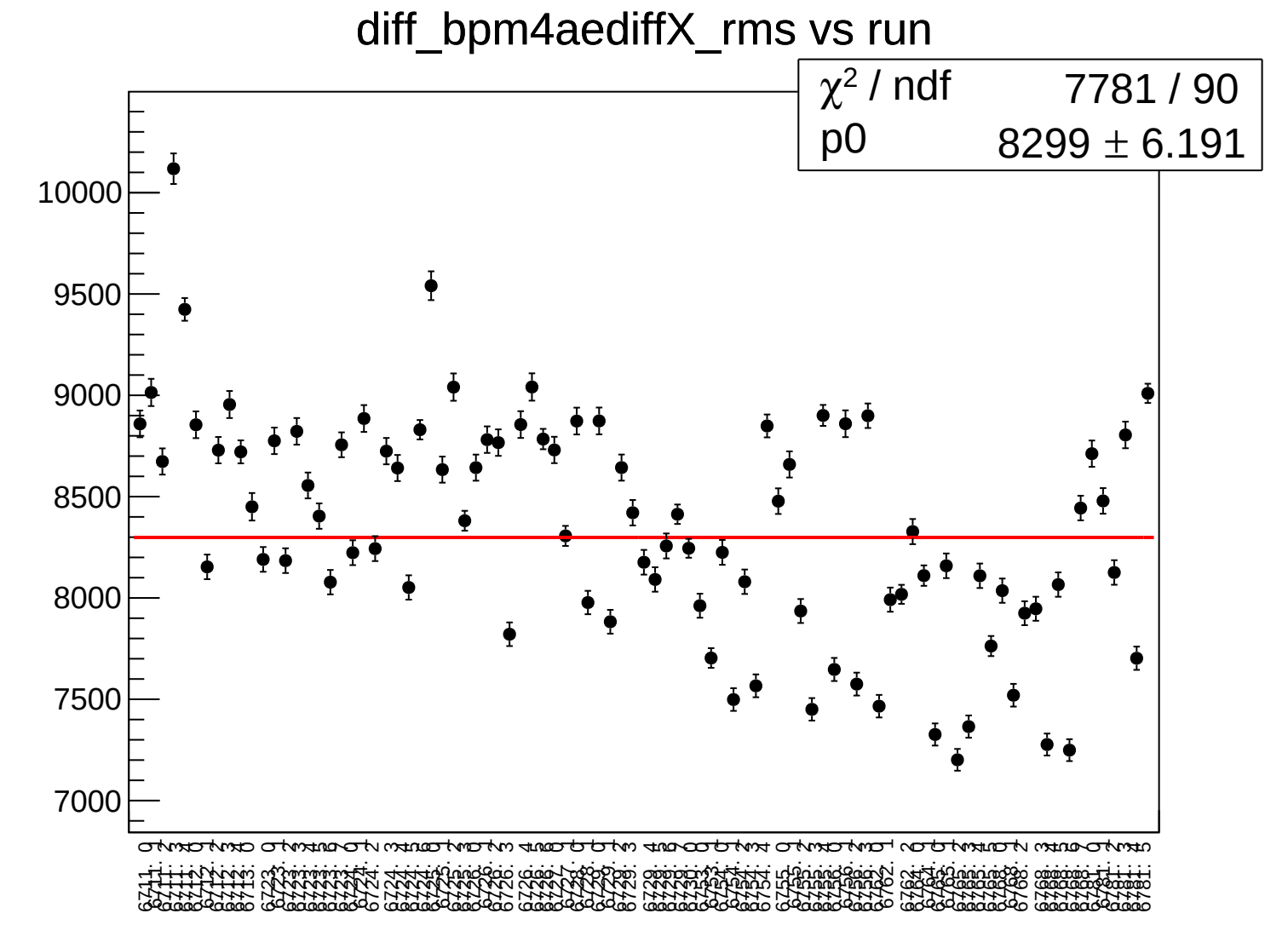

diff_bpm4aesumX_mean vs run
χ² / ndf 109.8 / 90
p0 6.435 ± 12.4
pull
Entries 91
Mean 47.46
Std Dev 75.72

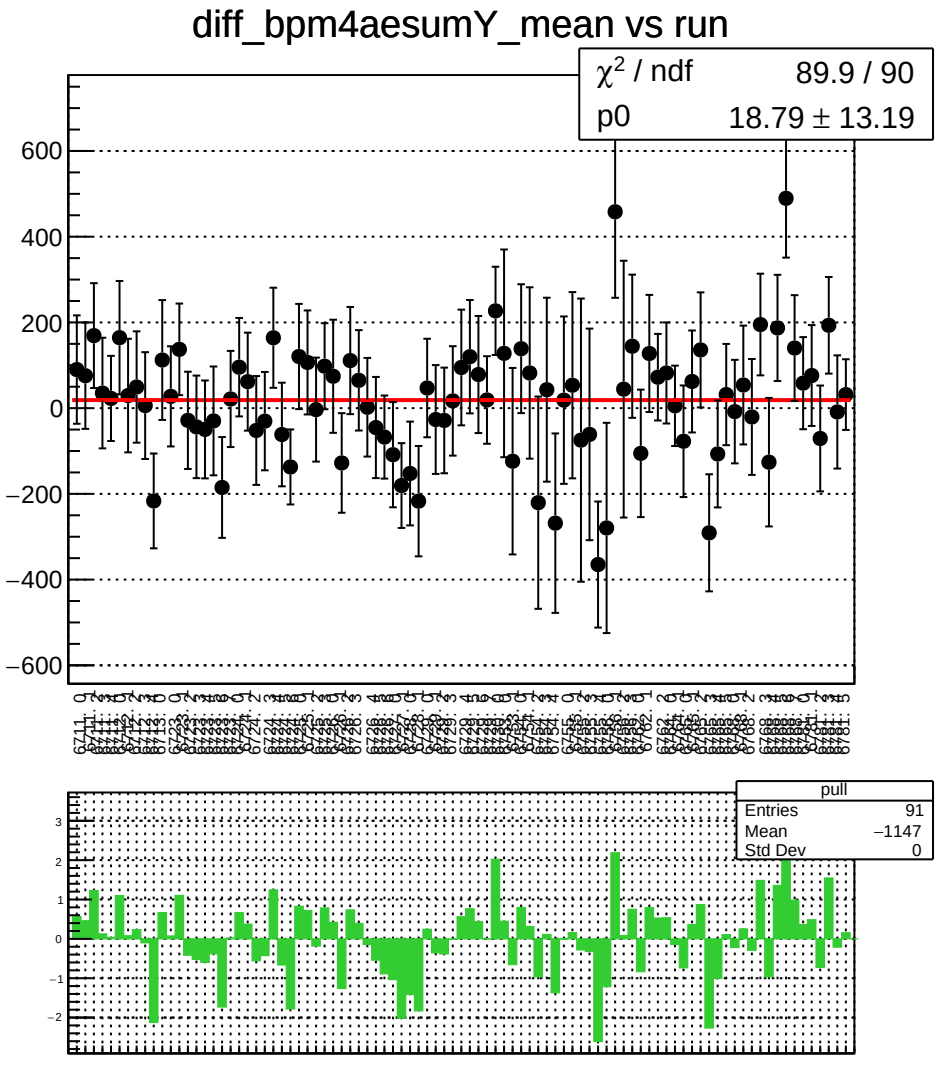

pull1D
Entries 91
Mean 0.02686
Std Dev 1.098

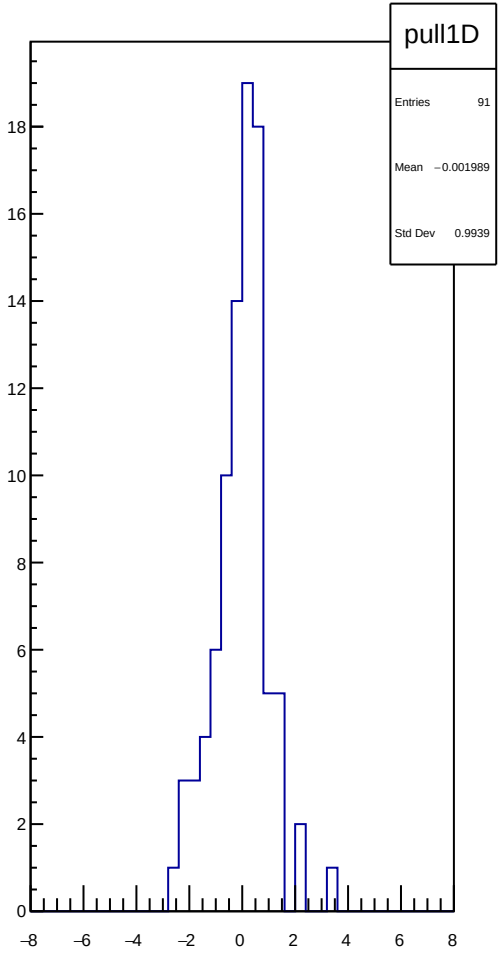

diff_bpm4aesumX_rms vs run
χ² / ndf 7620 / 90
p0 1.175e+04 ± 8.765
14000
13000
12000
11000
10000

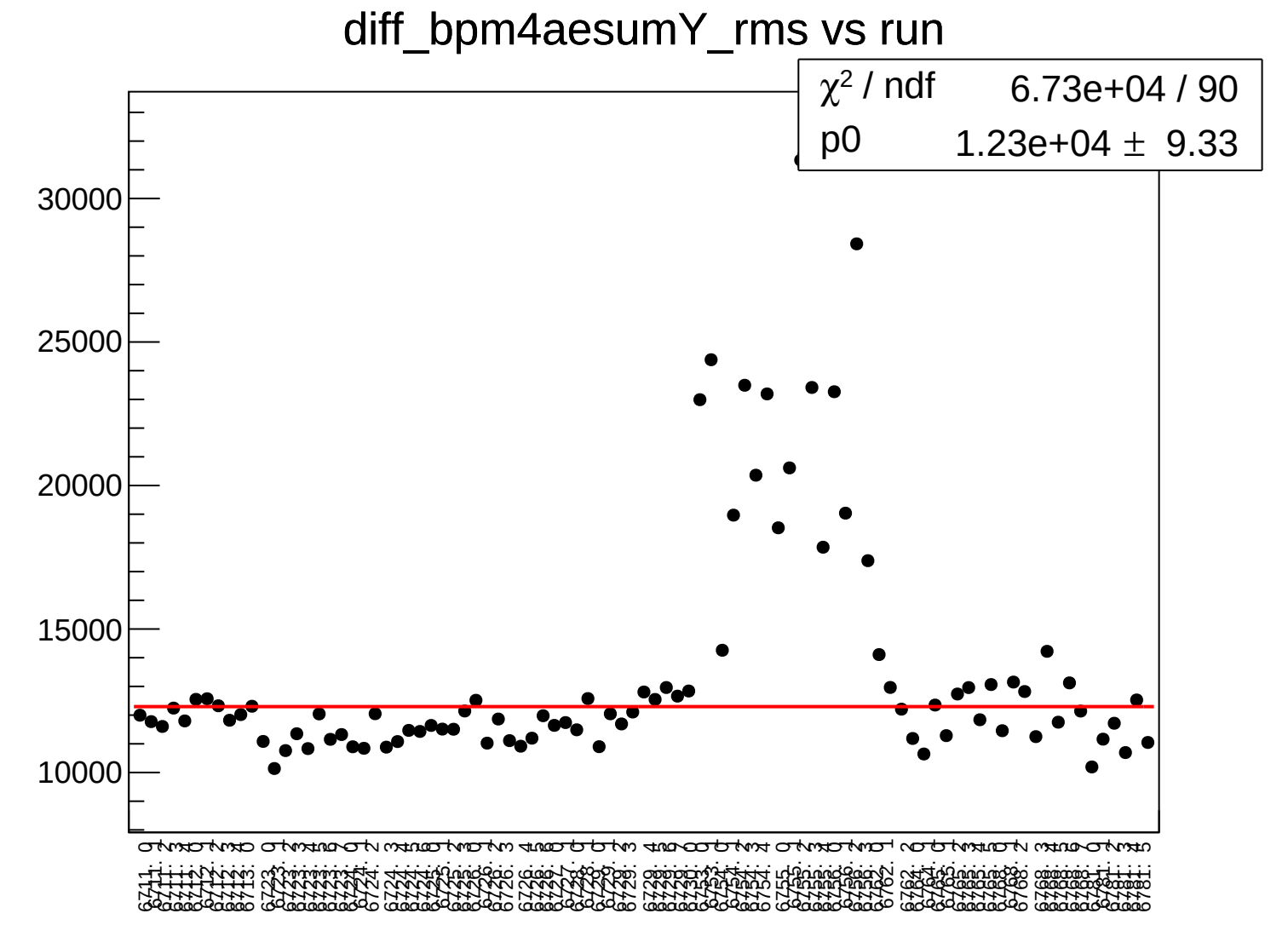

diff_bpm4aediffX_mean vs run
χ² / ndf 110.2 / 90
p0 −4.538 ± 8.756
pull
Entries 91
Mean 45.28
Std Dev 75.39

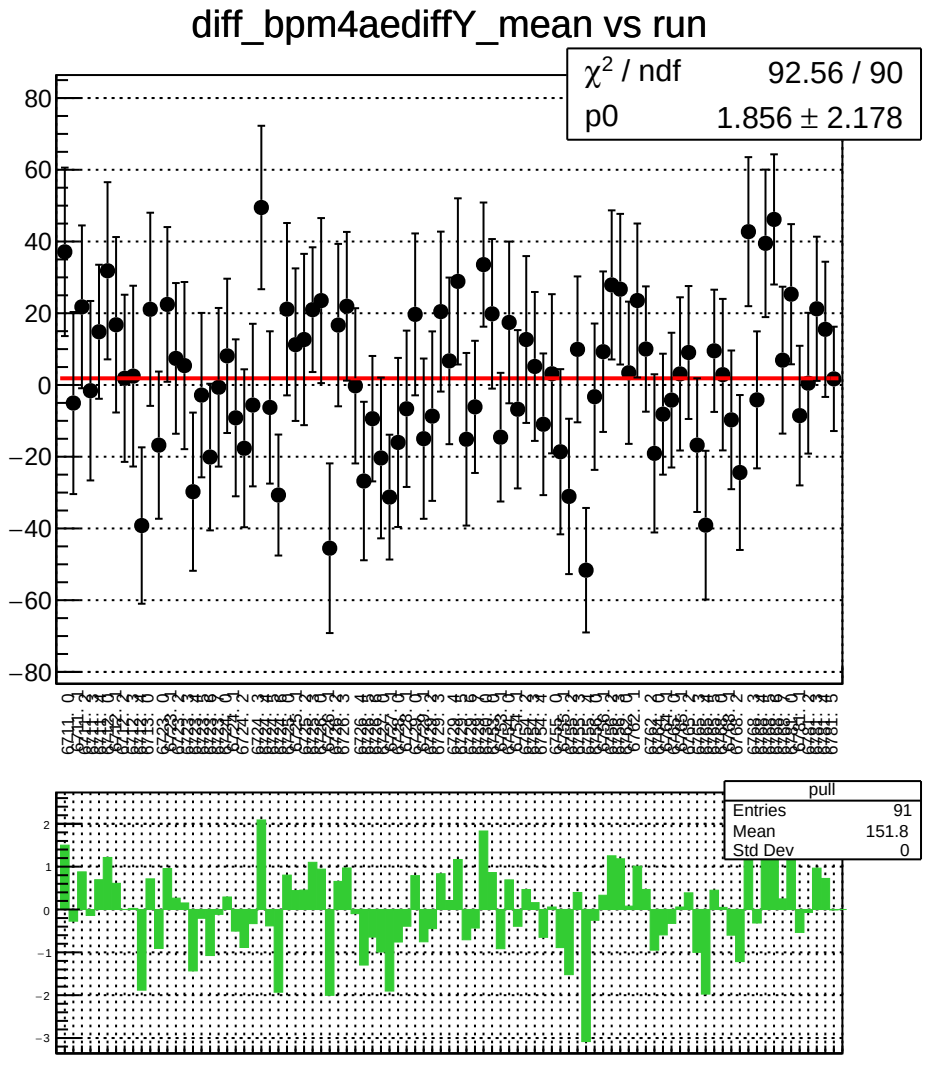

pull1D
Entries 91
Mean −0.0267
Std Dev 1.1

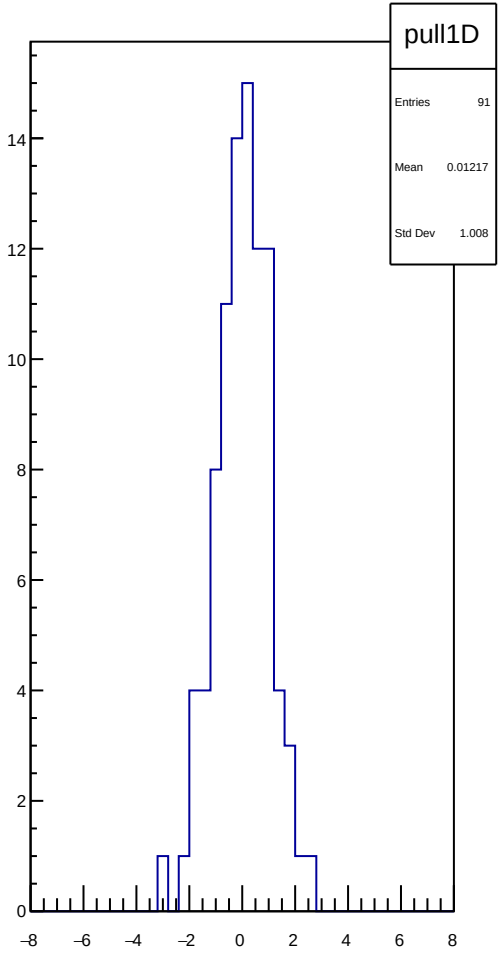

diff_bpm4aediffX_rms vs run
χ² / ndf 7781 / 90
p0 8299 ± 6.191
10000
9500
9000
8500
8000
7500
7000

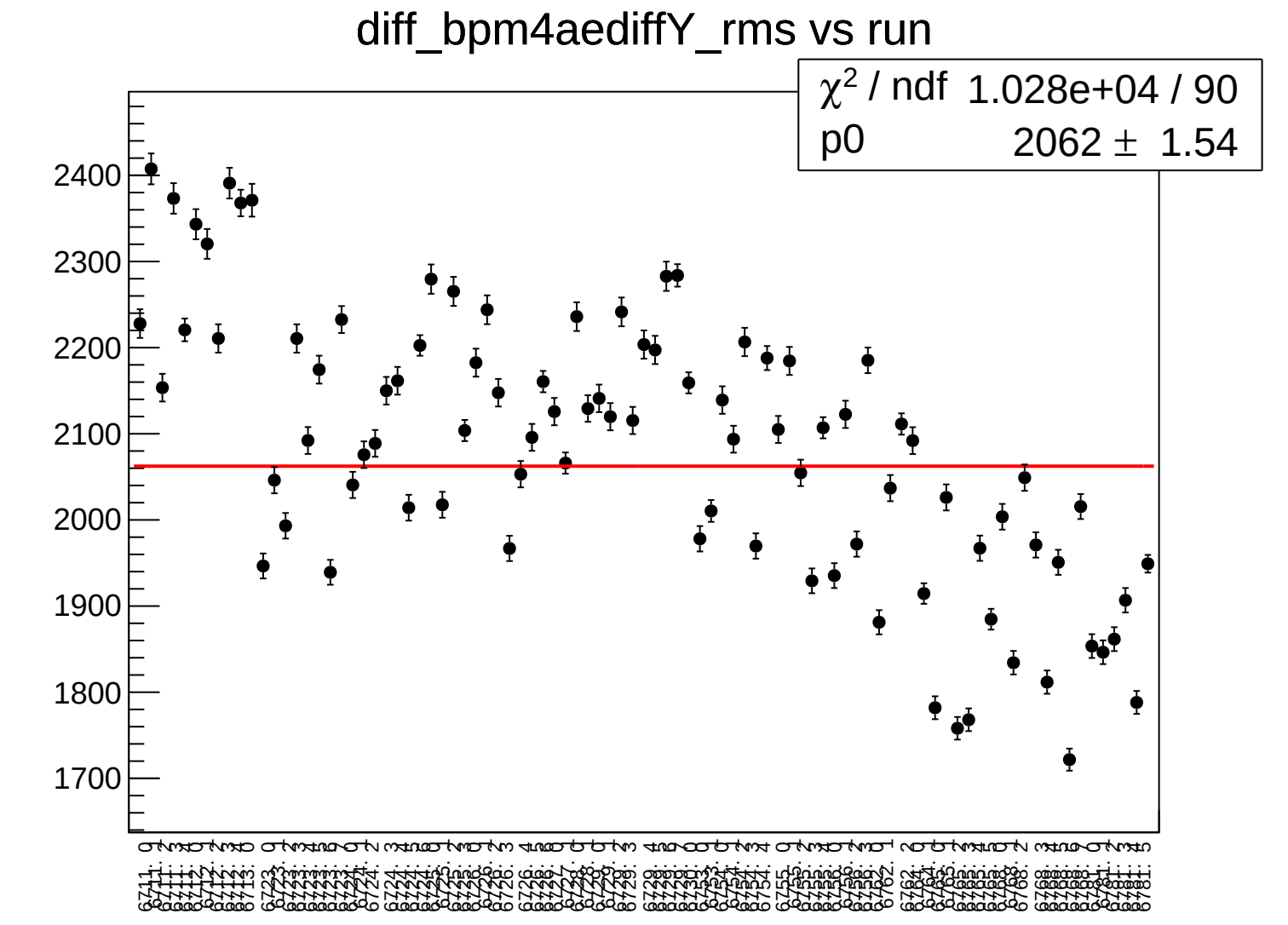

diff_bpm4aesumY_mean vs run
χ^2 / ndf 89.9 / 90
p0 18.79 ± 13.19
pull
Entries 91
Mean −1147
Std Dev 0

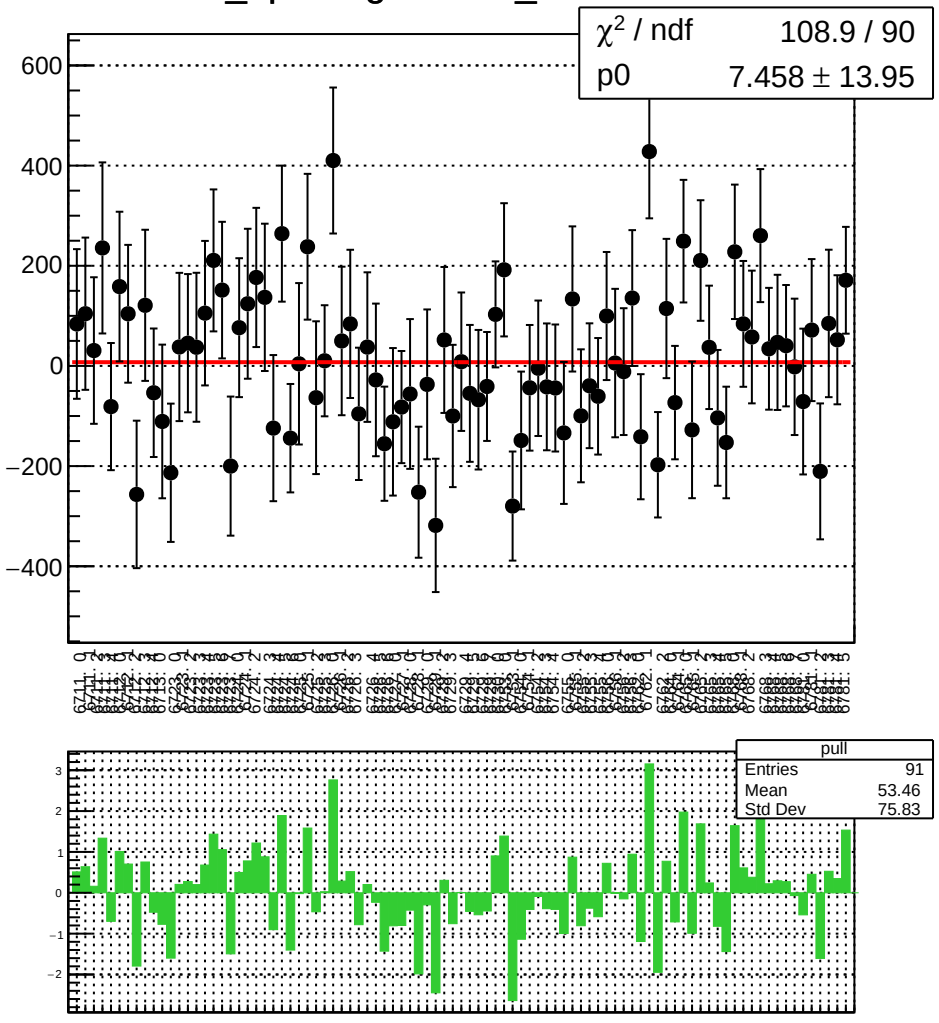

pull1D
Entries 91
Mean −0.001989
Std Dev 0.9939

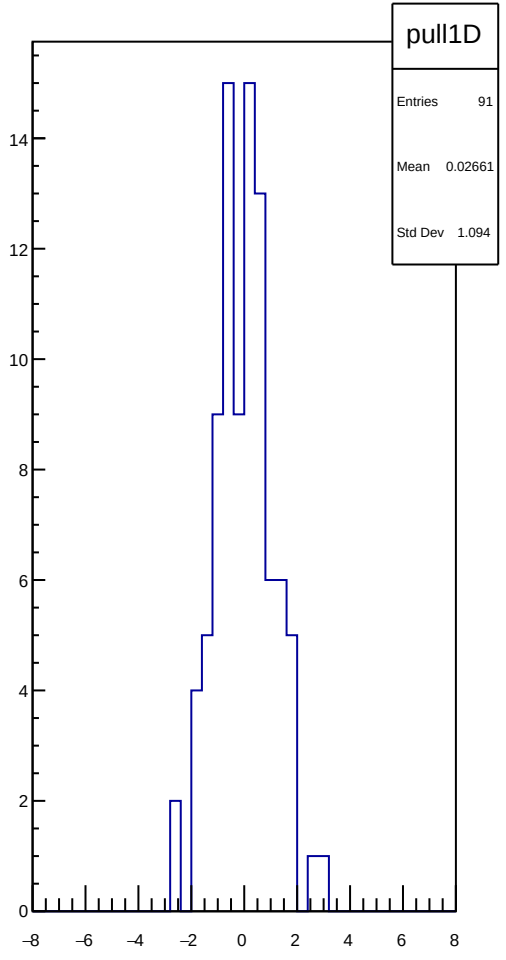

diff_bpm4aesumY_rms vs run
χ² / ndf 6.73e+04 / 90
p0 1.23e+04 ± 9.33
30000
25000
20000
15000
10000

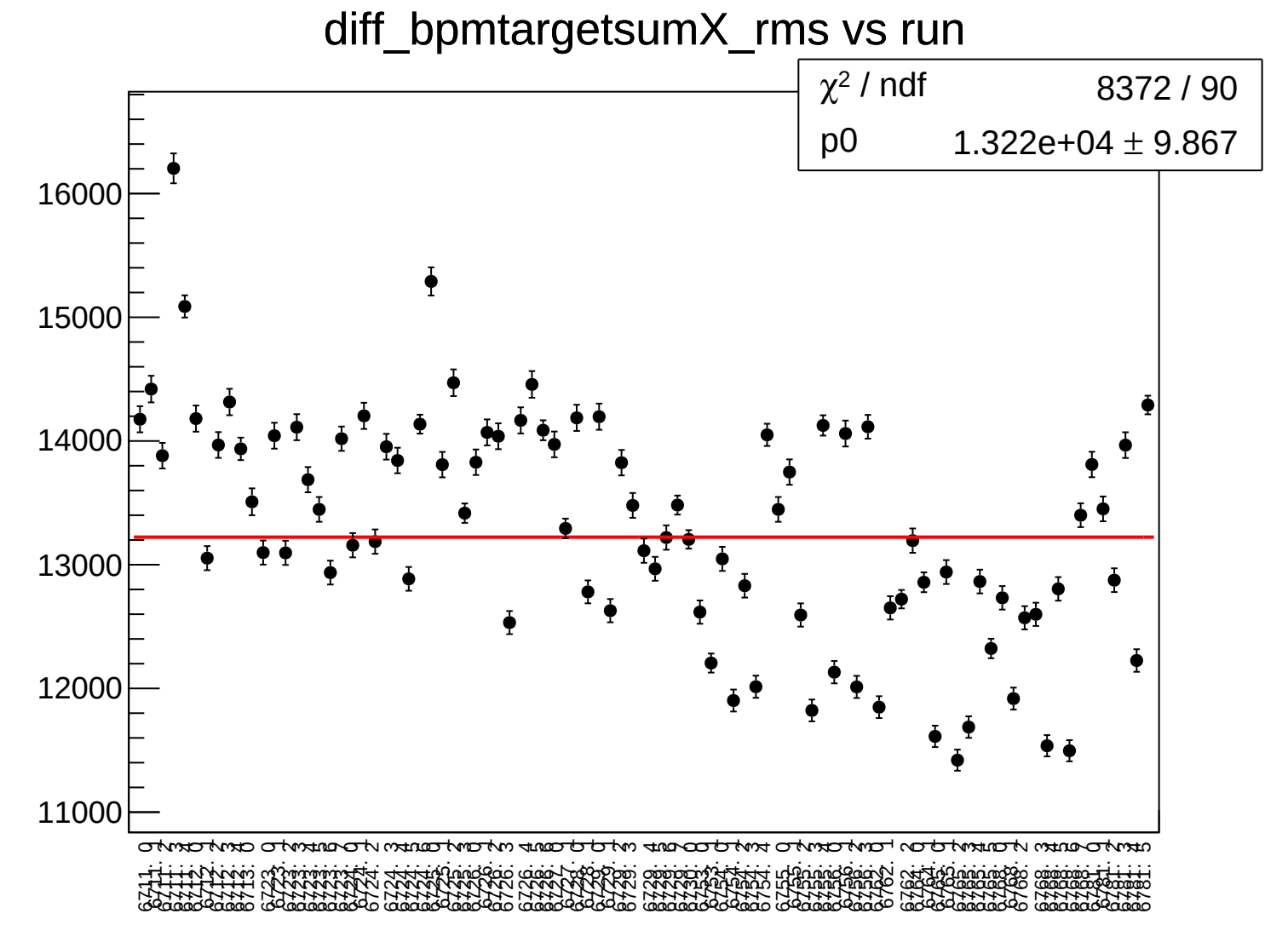

diff_bpm4aediffY_mean vs run
χ² / ndf 92.56 / 90
p0 1.856 ± 2.178
pull
Entries 91
Mean 151.8
Std Dev 0

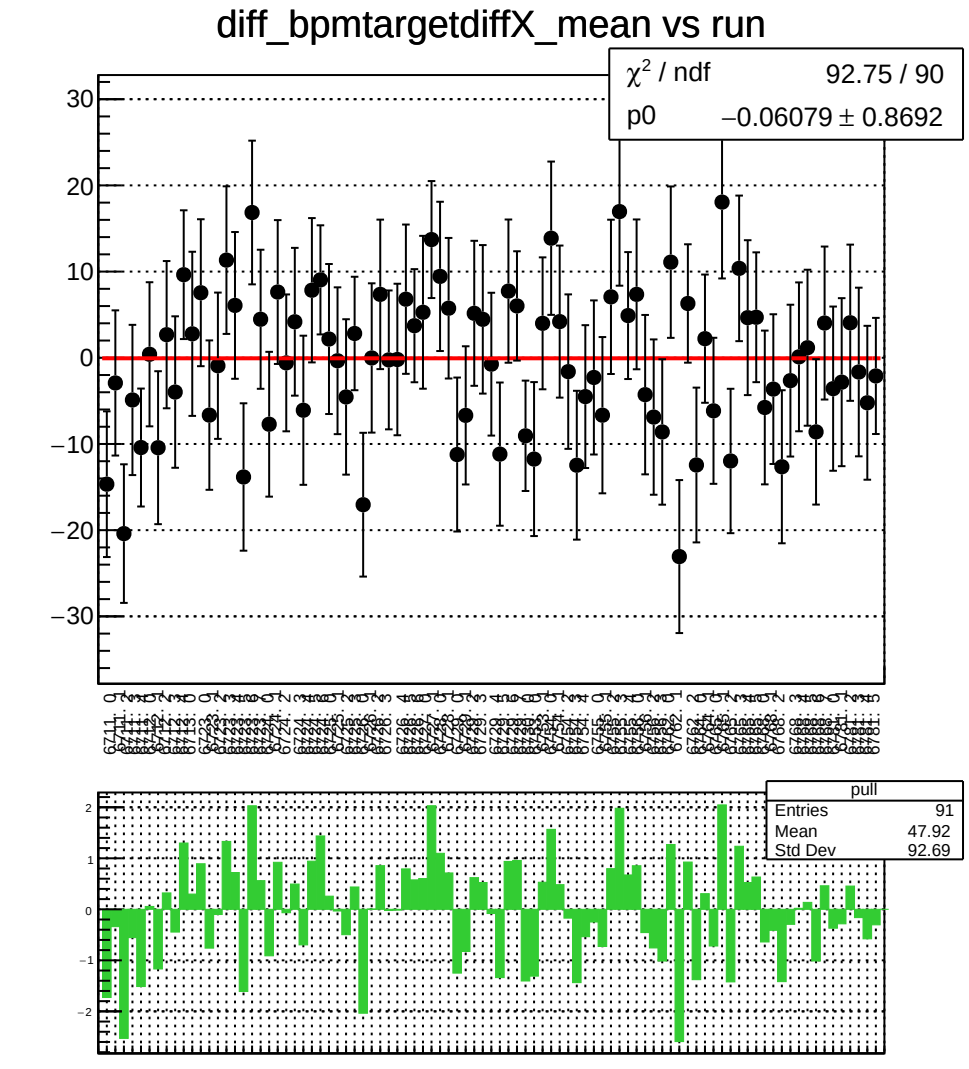

pull1D
Entries 91
Mean 0.01217
Std Dev 1.008

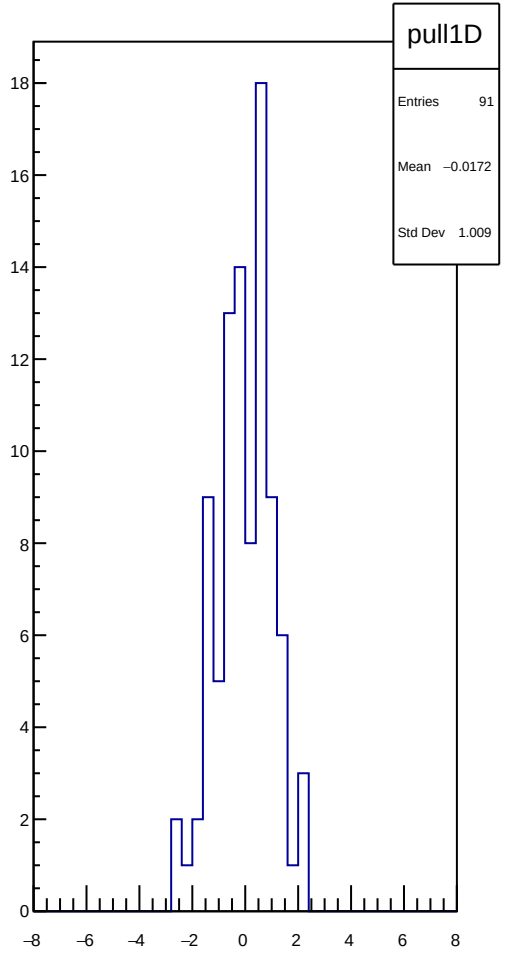

diff_bpm4aediffY_rms vs run
χ² / ndf 1.028e+04 / 90
p0 2062 ± 1.54
2400
2300
2200
2100
2000
1900
1800
1700

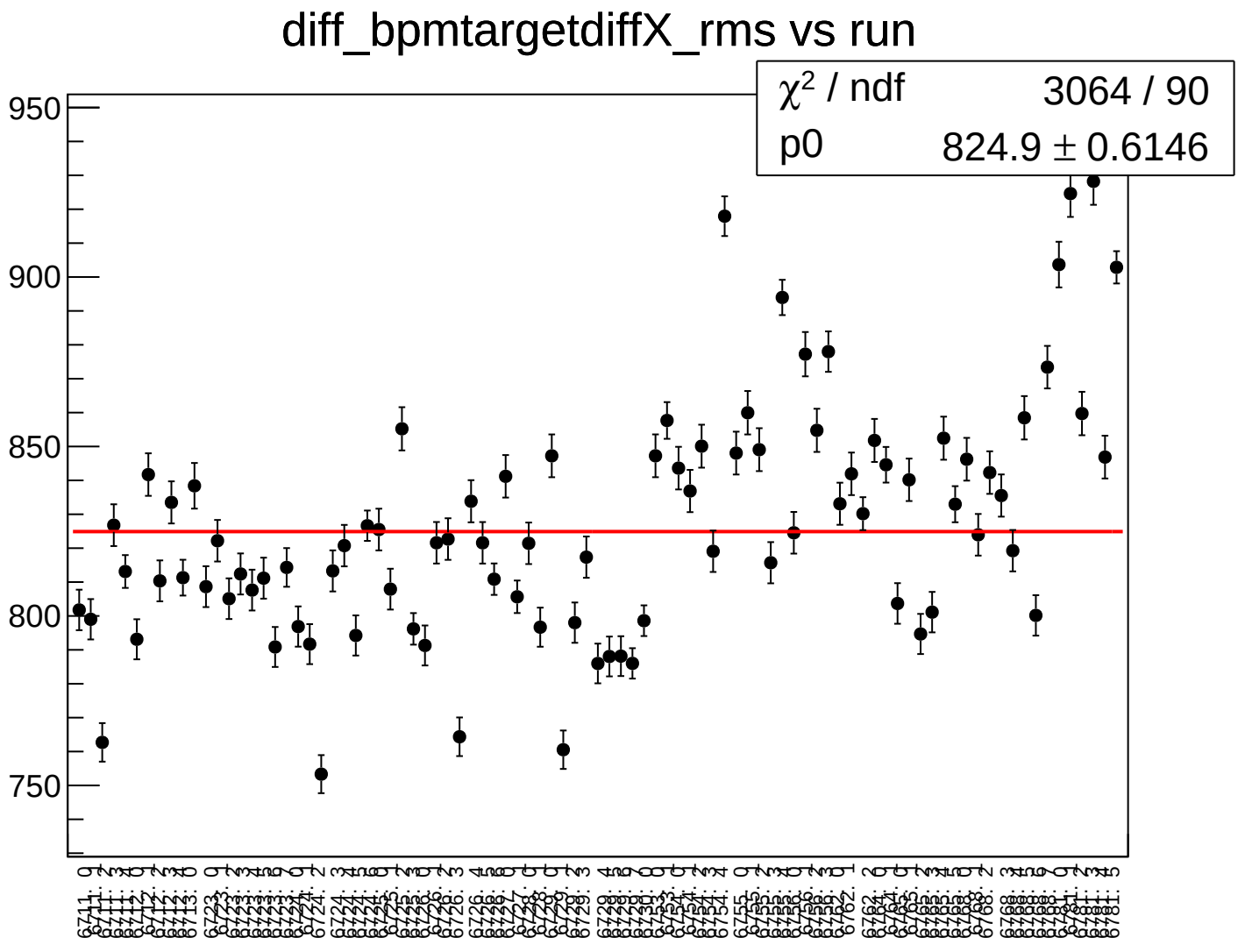

diff_bpmtargetsumX_mean vs run
χ² / ndf 108.9 / 90
p0 7.458 ± 13.95
pull
Entries 91
Mean 53.46
Std Dev 75.83

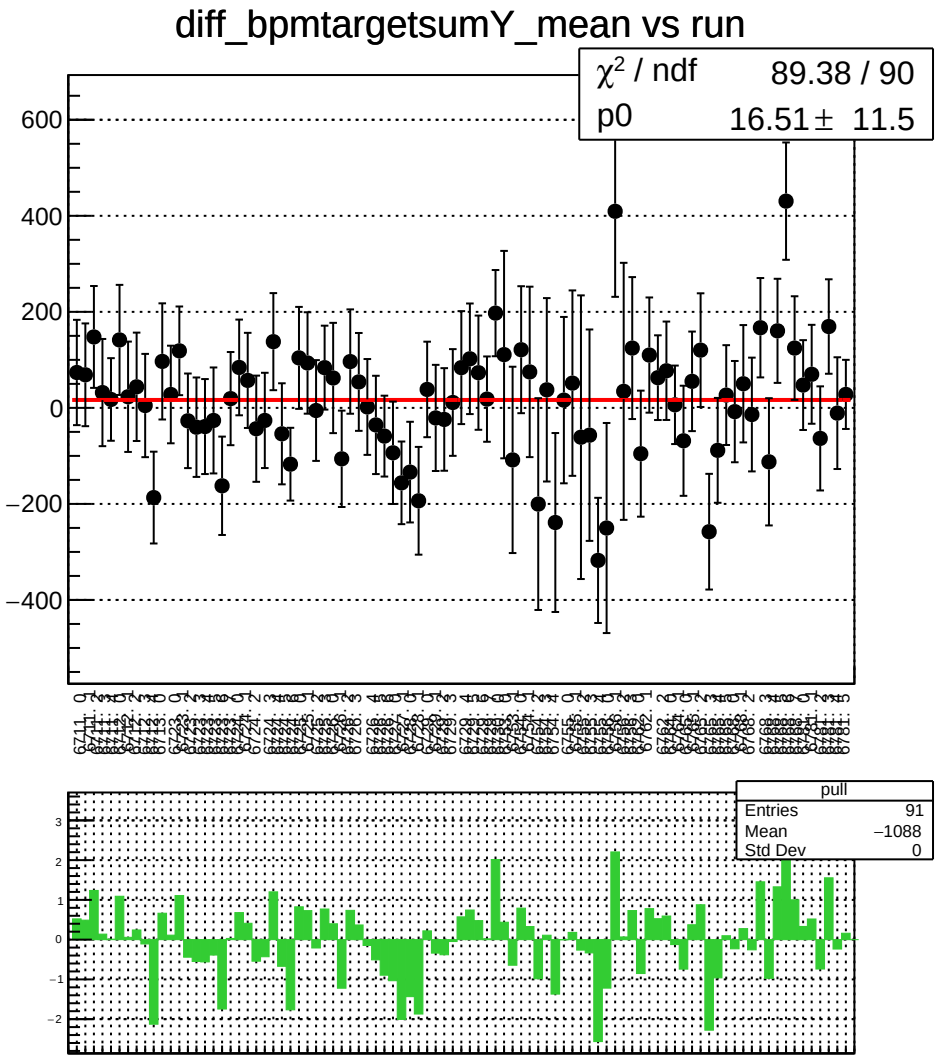

pull1D
Entries 91
Mean 0.02661
Std Dev 1.094

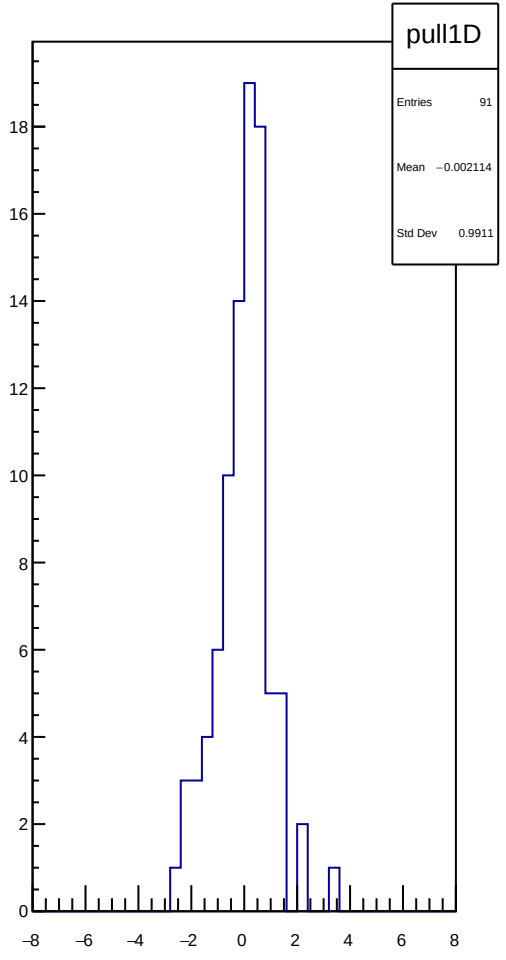

diff_bpmtargetsumX_rms vs run
χ² / ndf 8372 / 90
p0 1.322e+04 ± 9.867
16000
15000
14000
13000
12000
11000

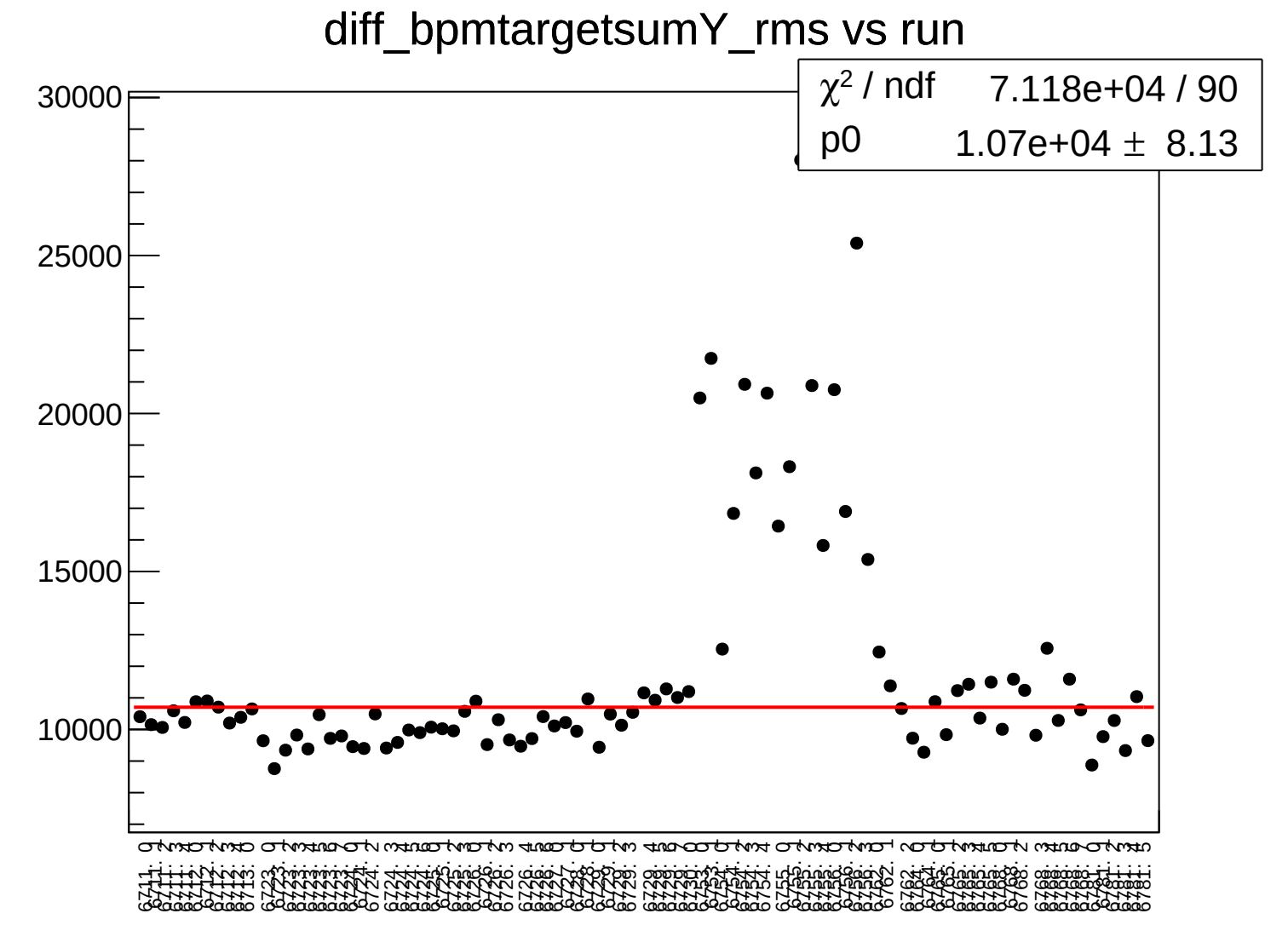

diff_bpmtargetdiffX_mean vs run
χ² / ndf 92.75 / 90
p0 −0.06079 ± 0.8692
pull
Entries 91
Mean 47.92
Std Dev 92.69

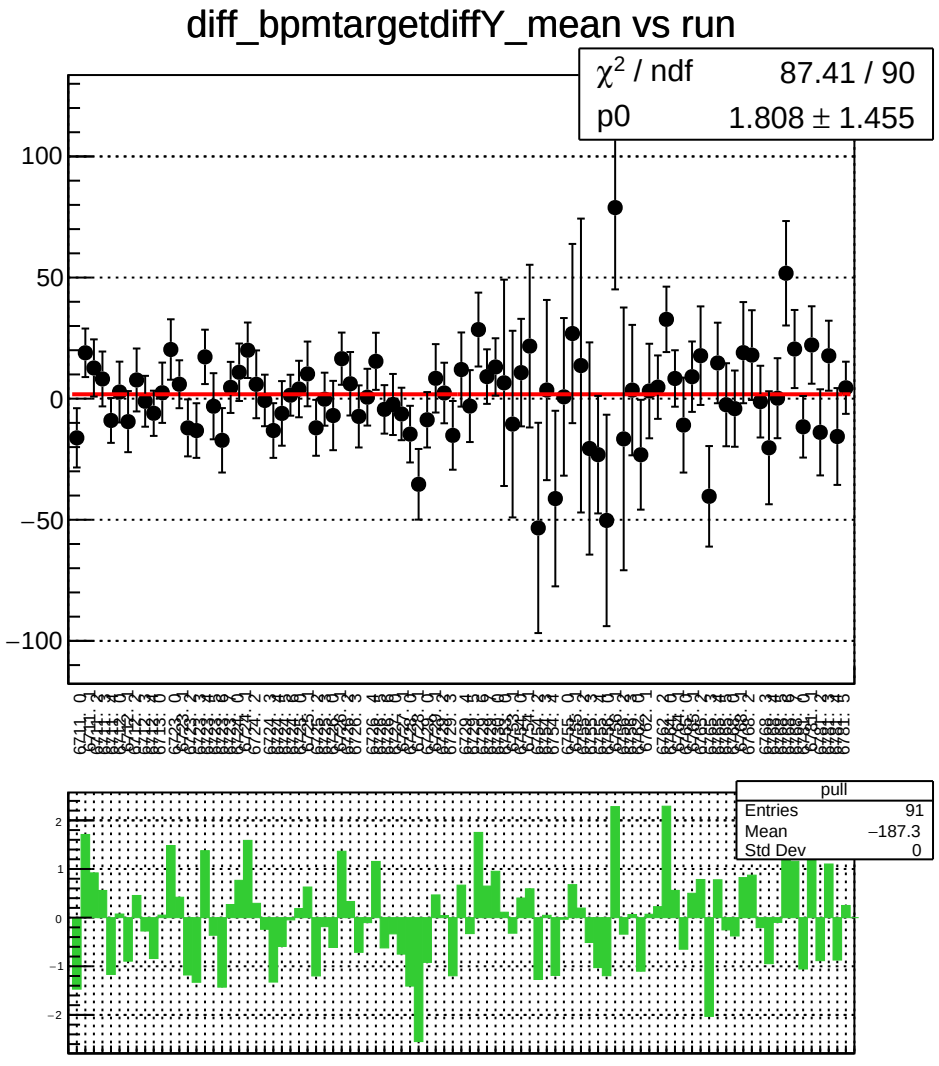

pull1D
Entries 91
Mean −0.0172
Std Dev 1.009

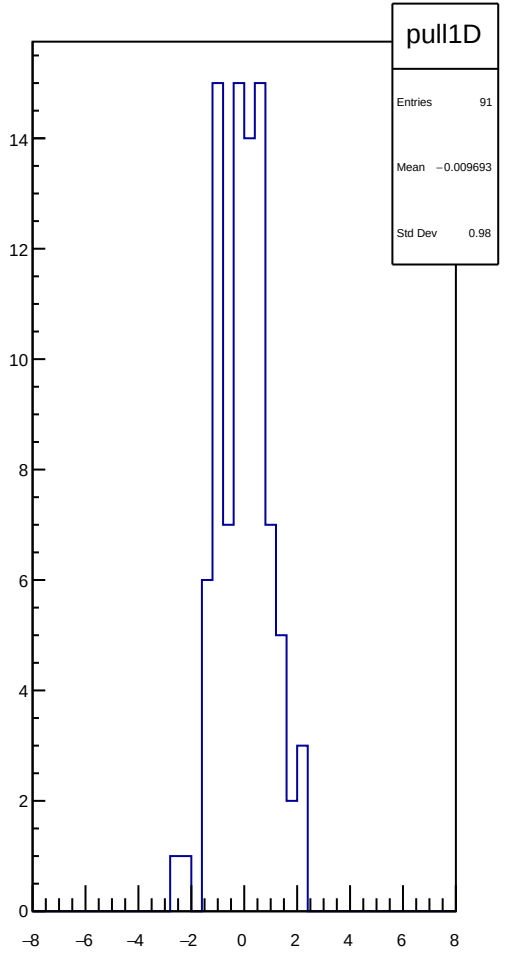

diff_bpmtargetdiffX_rms vs run
χ² / ndf 3064 / 90
p0 824.9 ± 0.6146
950
900
850
800
750

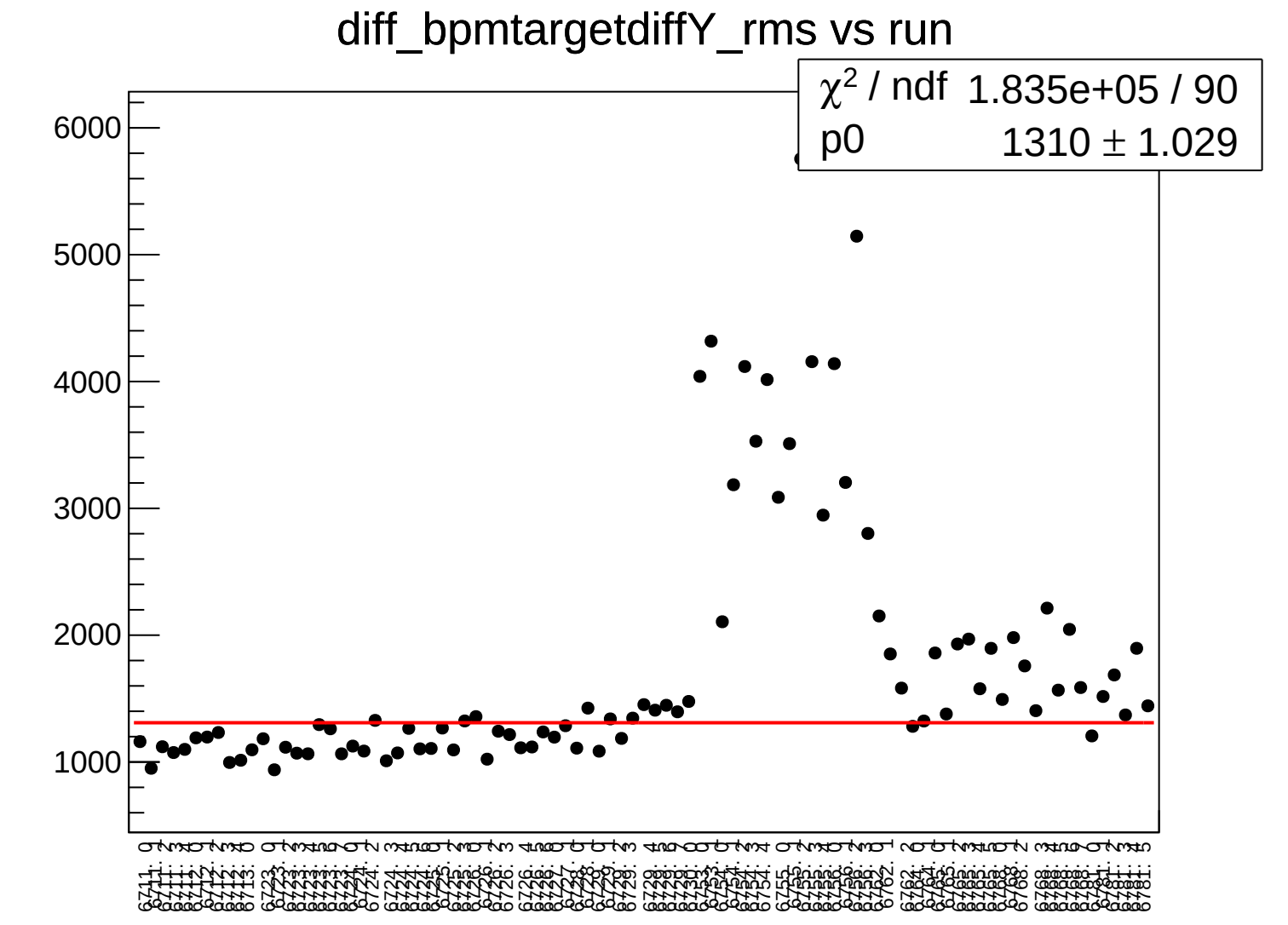

diff_bpmtargetsumY_mean vs run
χ² / ndf 89.38 / 90
p0 16.51 ± 11.5
600
400
200
0
−200
−400
pull
Entries 91
Mean −1088
Std Dev 0
3
2
1
0
−1
−2

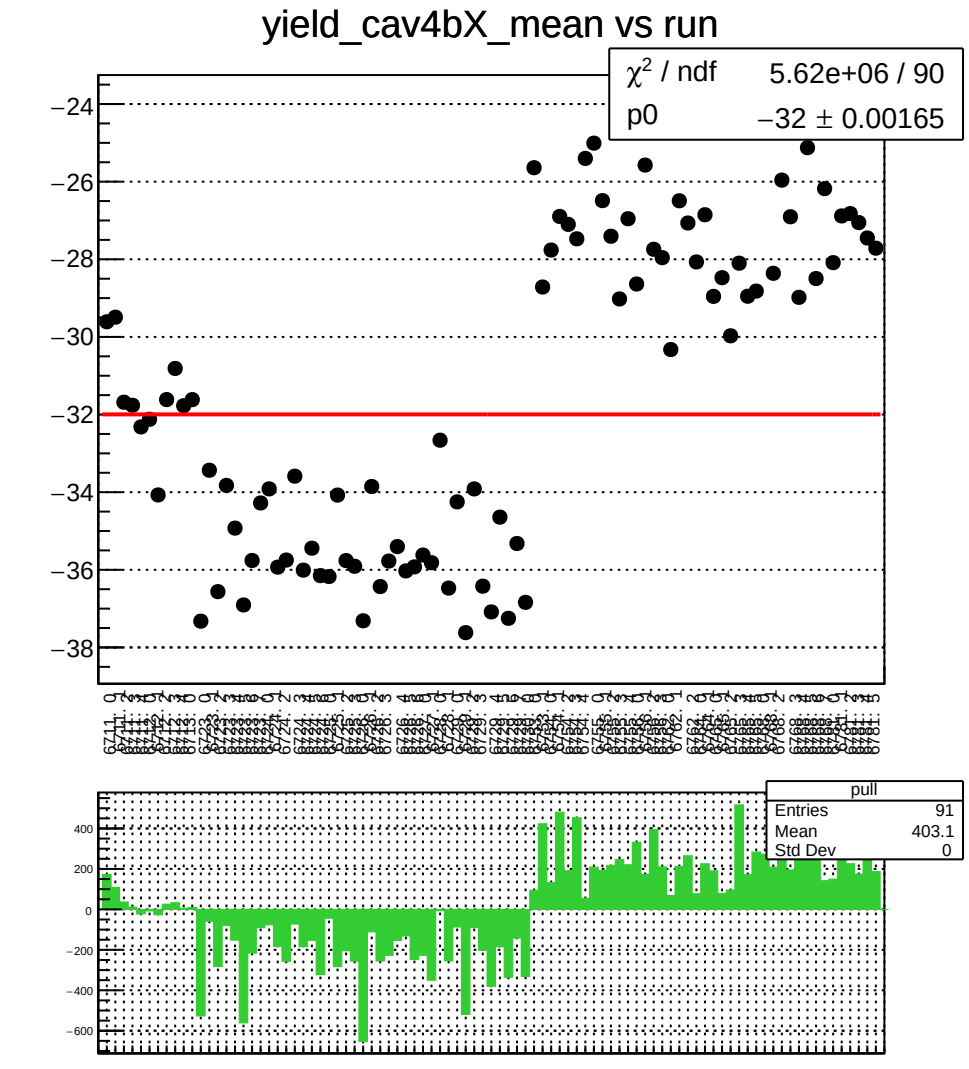

pull1D
Entries 91
Mean −0.002114
Std Dev 0.9911
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

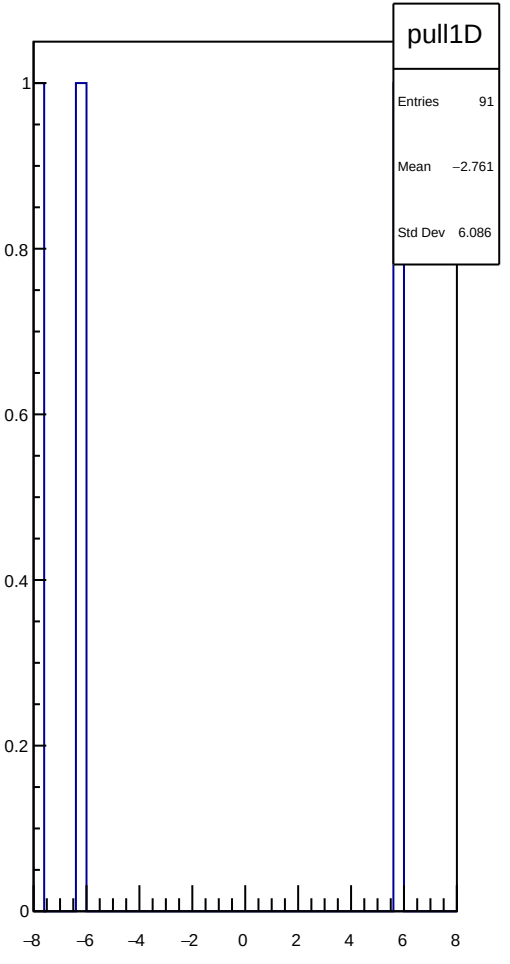

diff_bpmtargetsumY_rms vs run
χ² / ndf 7.118e+04 / 90
p0 1.07e+04 ± 8.13
30000
25000
20000
15000
10000

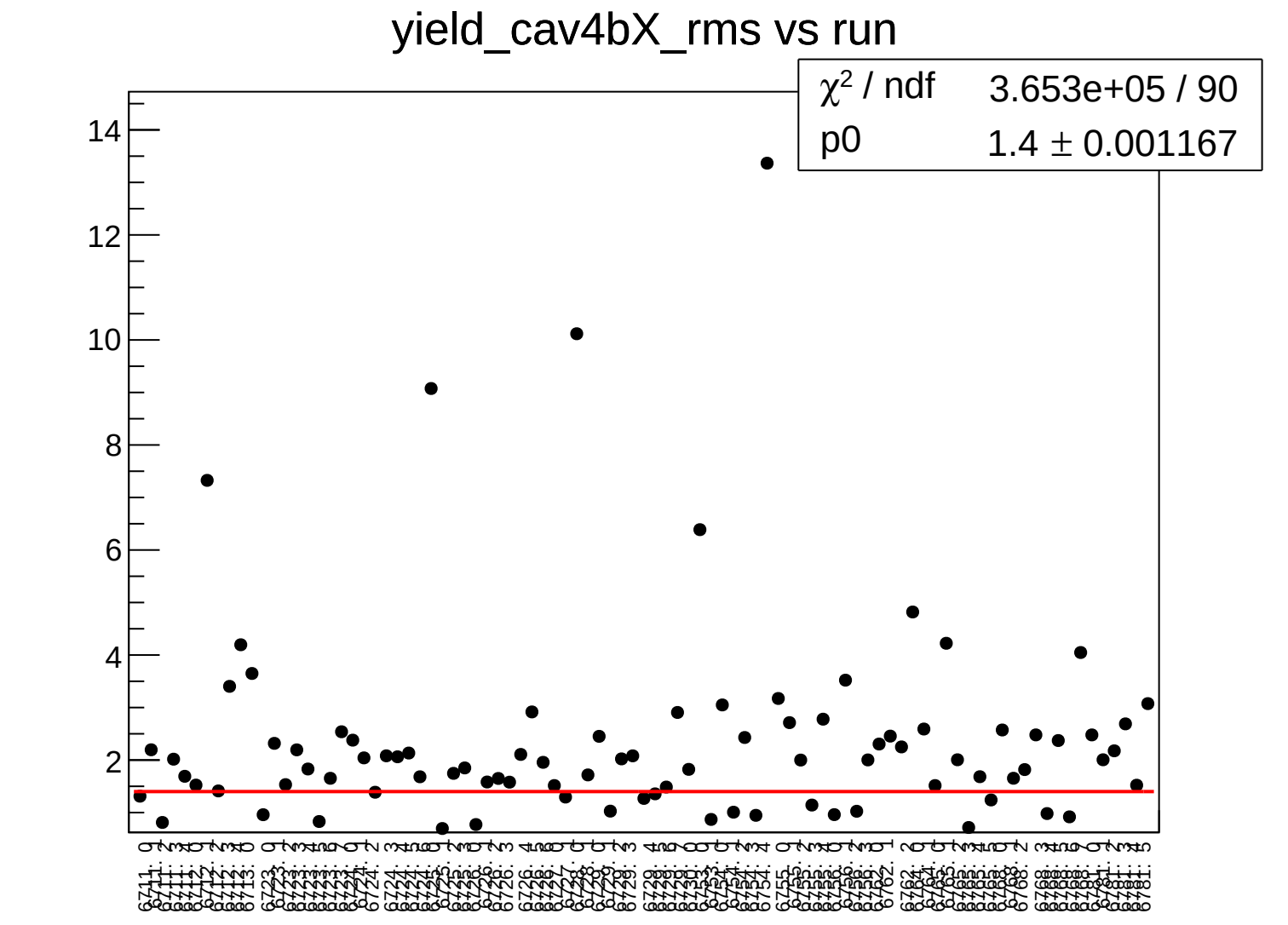

diff_bpmtargetdiffY_mean vs run
χ² / ndf 87.41 / 90
p0 1.808 ± 1.455
100
50
0
−50
−100
pull
Entries 91
Mean −187.3
Std Dev 0
2
1
0
−1
−2

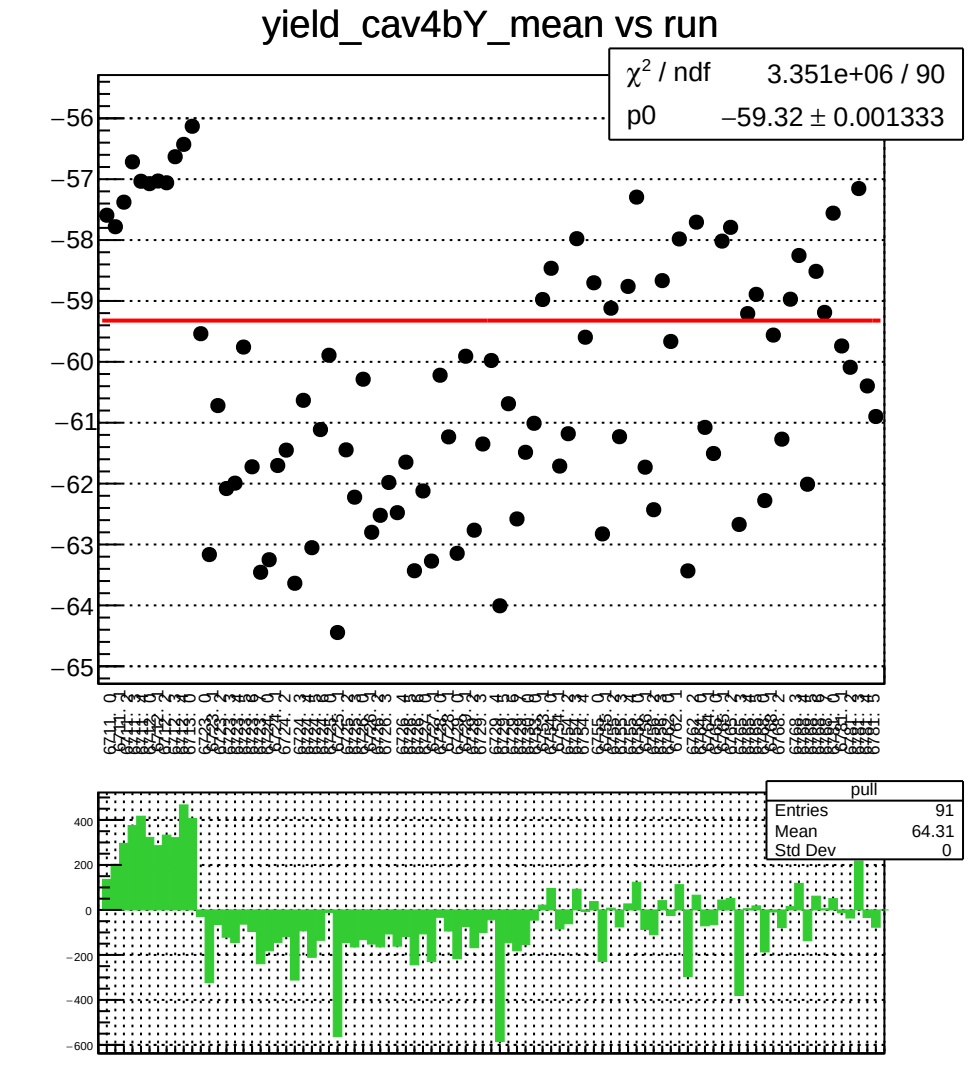

pull1D
Entries 91
Mean −0.009693
Std Dev 0.98
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

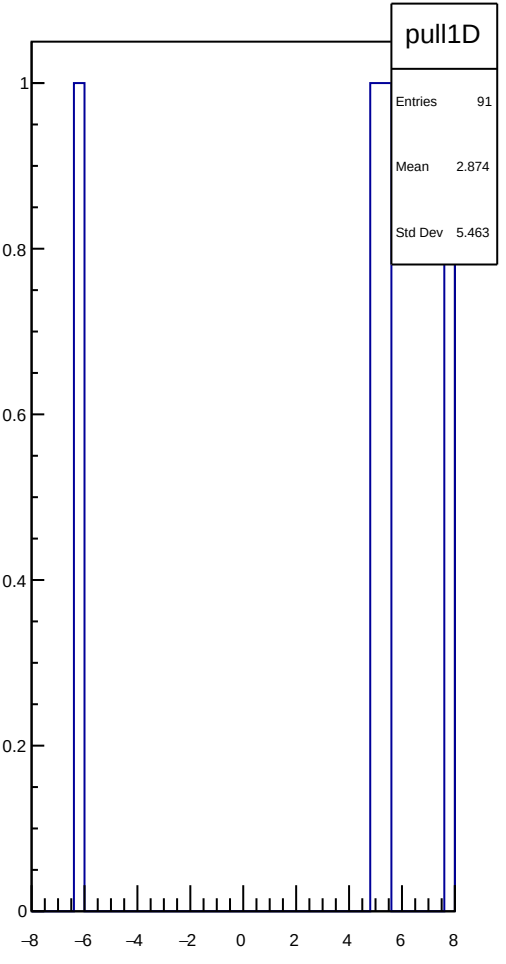

diff_bpmtargetdiffY_rms vs run
χ² / ndf 1.835e+05 / 90
p0 1310 ± 1.029
6000
5000
4000
3000
2000
1000

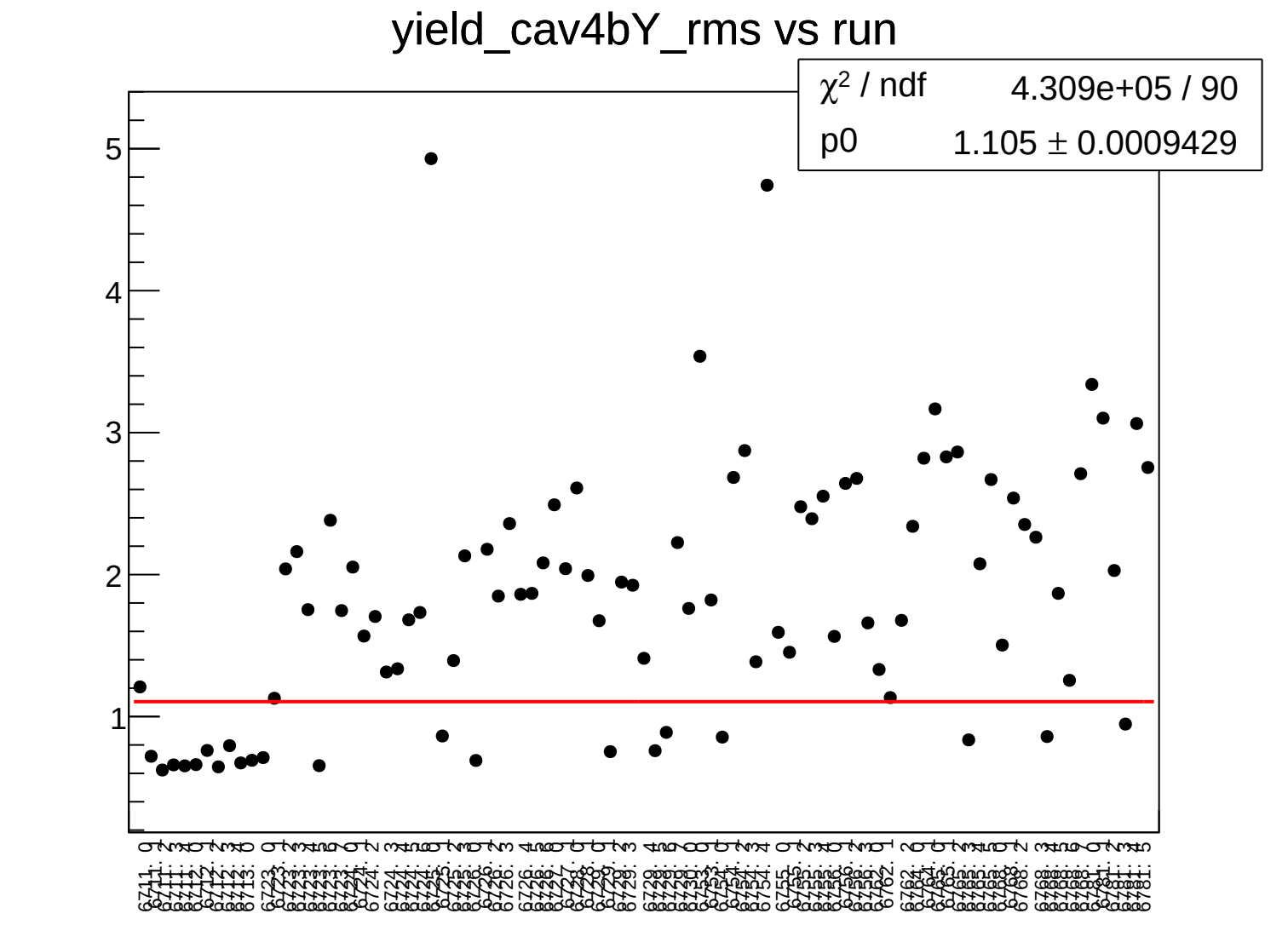

yield_cav4bX_mean vs run
χ² / ndf 5.62e+06 / 90
p0 −32 ± 0.00165
−24
−26
−28
−30
−32
−34
−36
−38
pull
Entries 91
Mean 403.1
Std Dev 0
400
200
0
−200
−400
−600

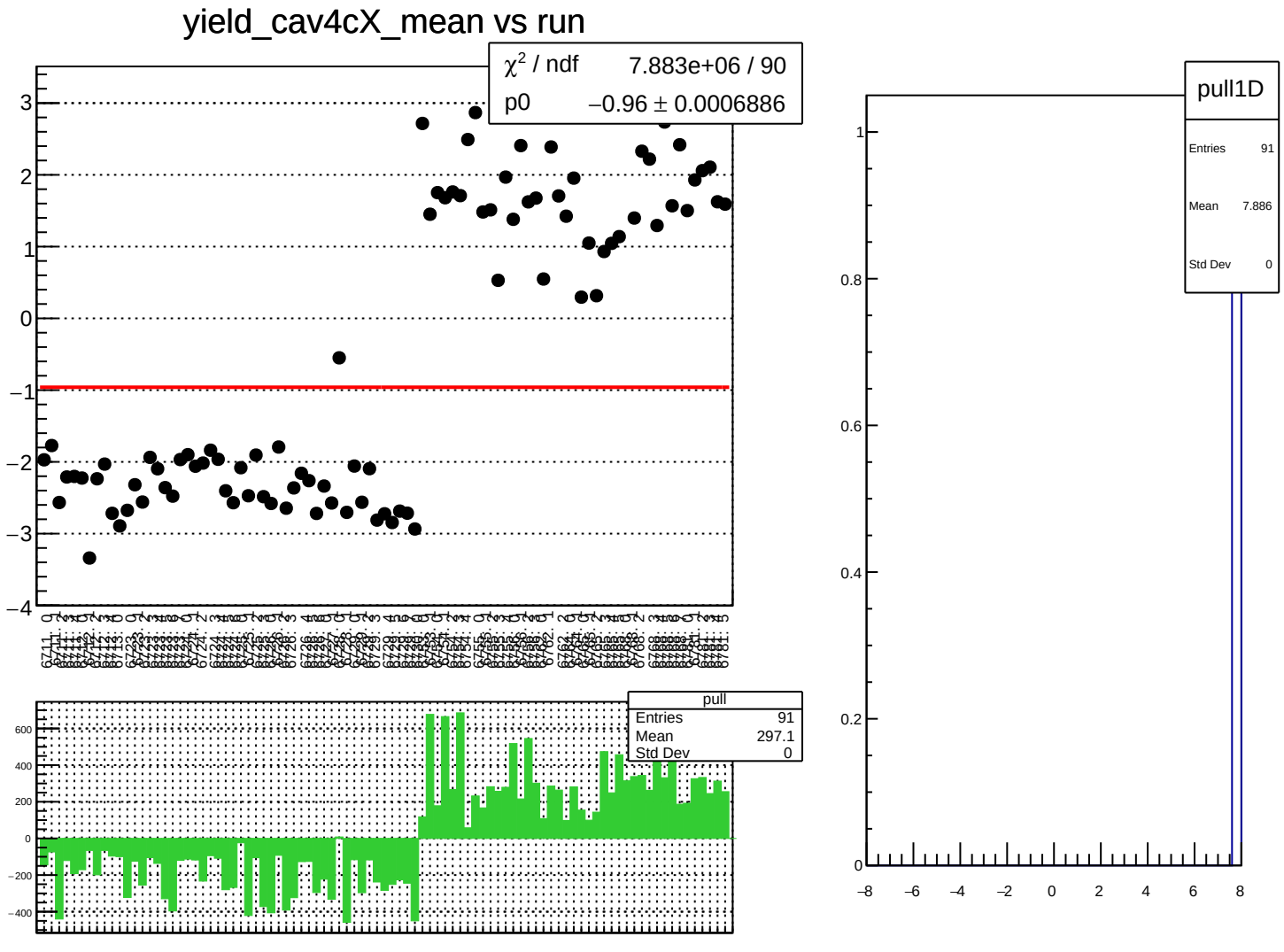

pull1D
Entries 91
Mean −2.761
Std Dev 6.086
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

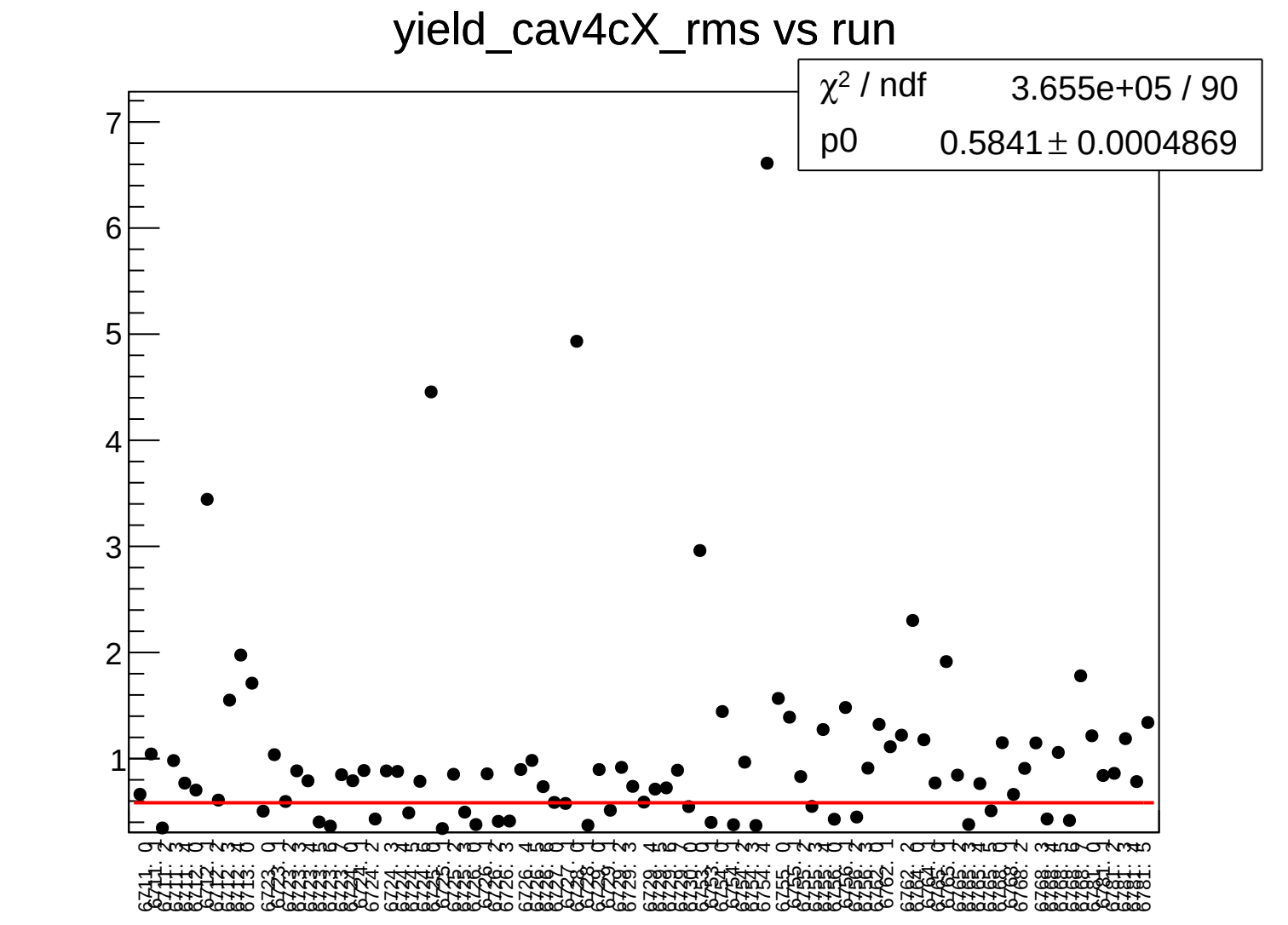

yield_cav4bX_rms vs run
χ^2 / ndf 3.653e+05 / 90
p0 1.4 ± 0.001167
14
12
10
8
6
4
2

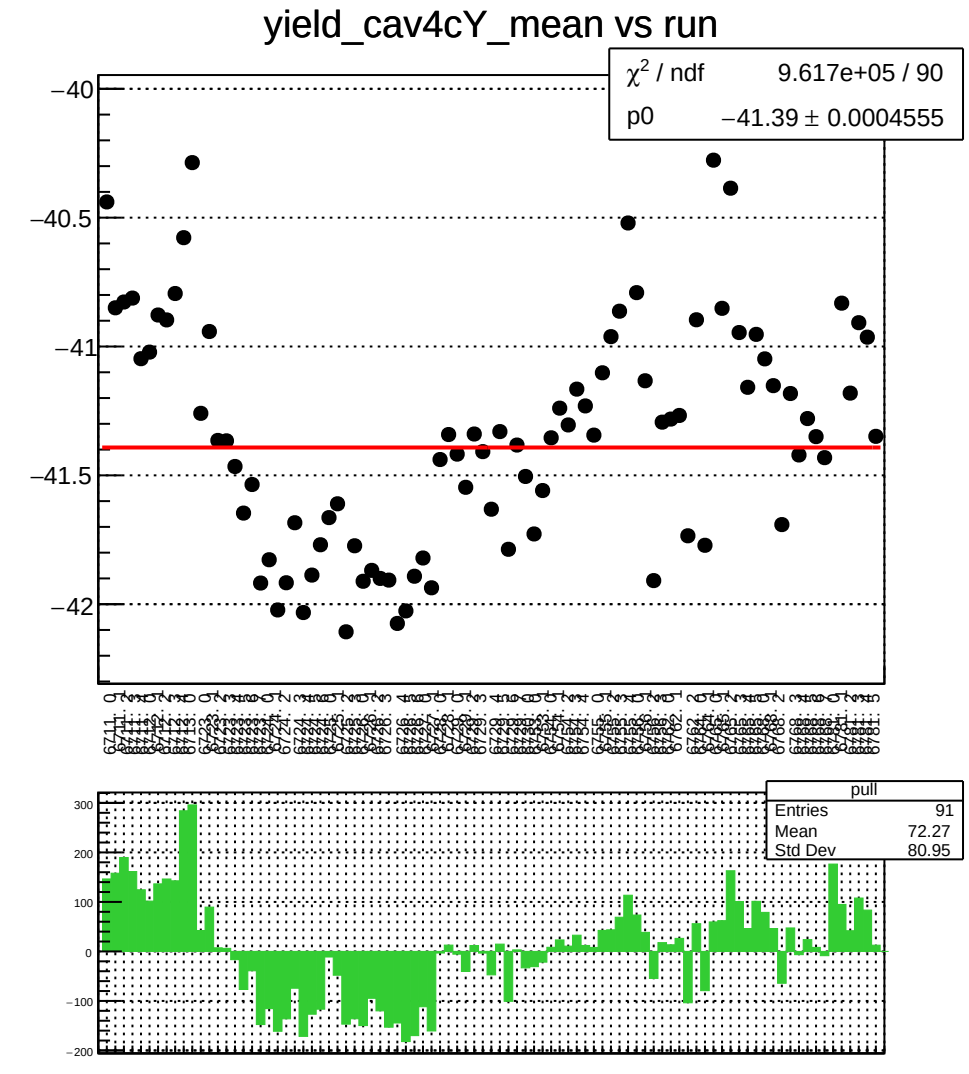

yield_cav4bY_mean vs run
χ² / ndf 3.351e+06 / 90
p0 −59.32 ± 0.001333
pull
Entries 91
Mean 64.31
Std Dev 0

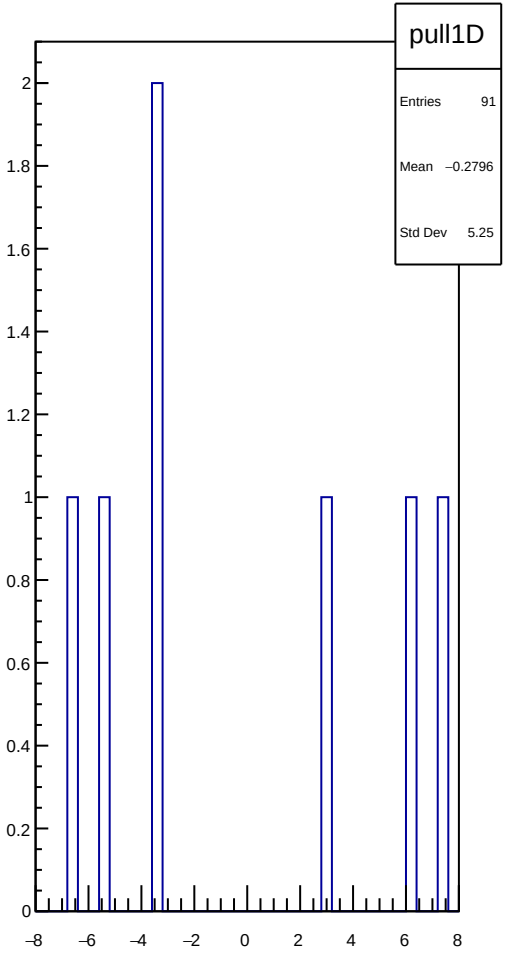

pull1D
Entries 91
Mean 2.874
Std Dev 5.463

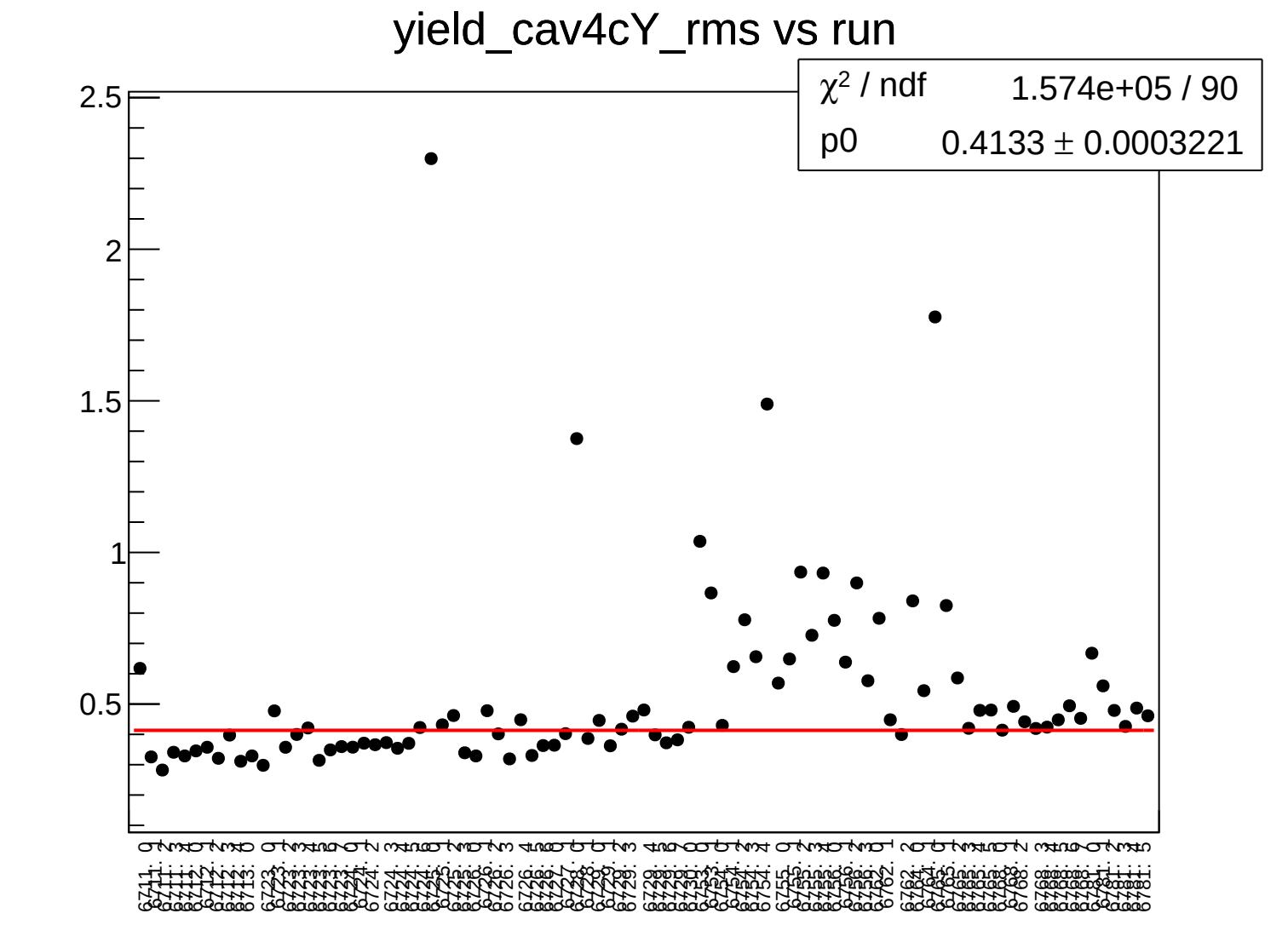

yield_cav4bY_rms vs run
χ² / ndf 4.309e+05 / 90
p0 1.105 ± 0.0009429
5
4
3
2
1

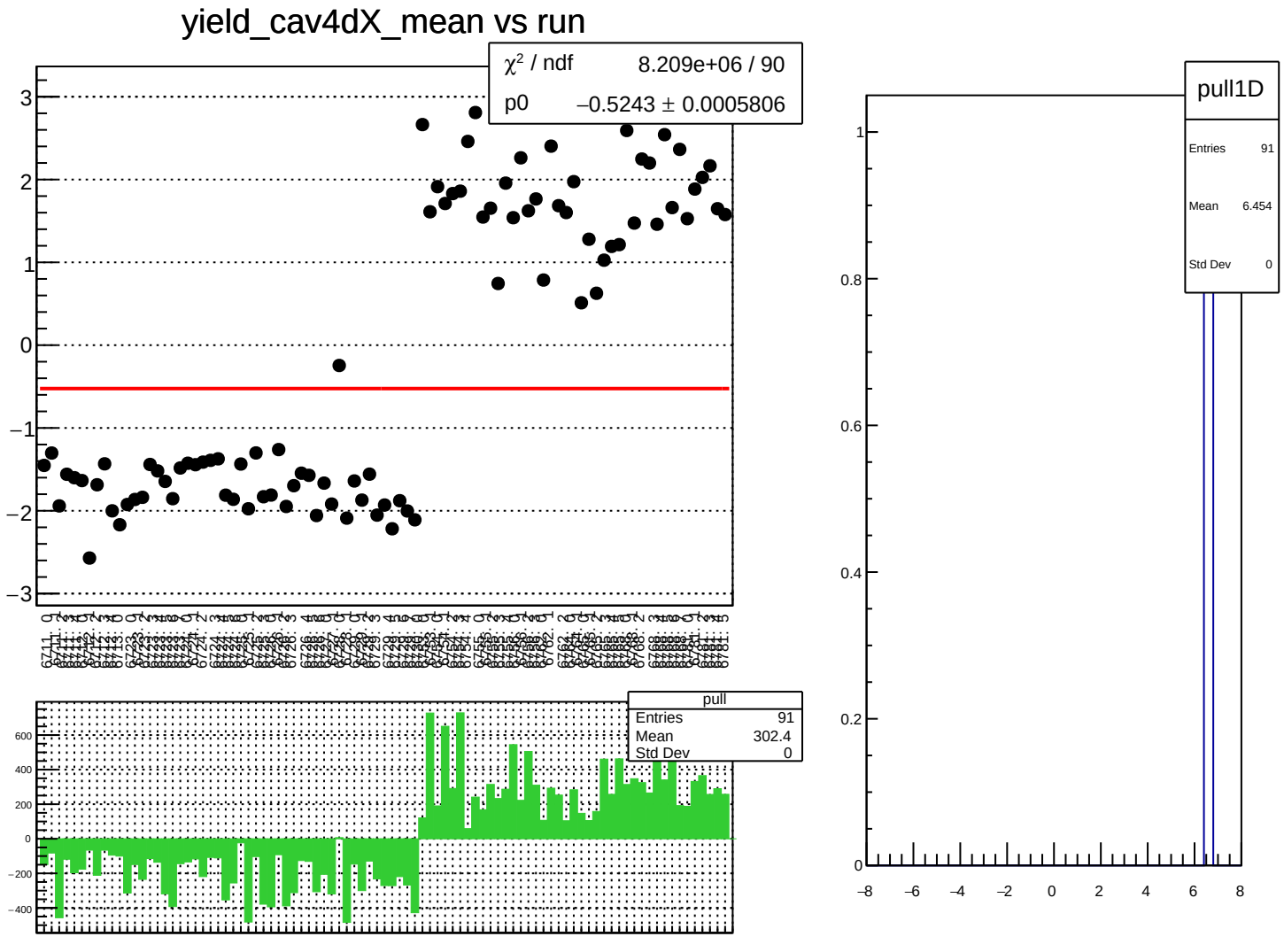

yield_cav4cX_mean vs run
χ² / ndf 7.883e+06 / 90
p0 −0.96 ± 0.0006886
pull
Entries 91
Mean 297.1
Std Dev 0
pull1D
Entries 91
Mean 7.886
Std Dev 0


yield_cav4cX_rms vs run
χ² / ndf 3.655e+05 / 90
p0 0.5841 ± 0.0004869
7
6
5
4
3
2
1

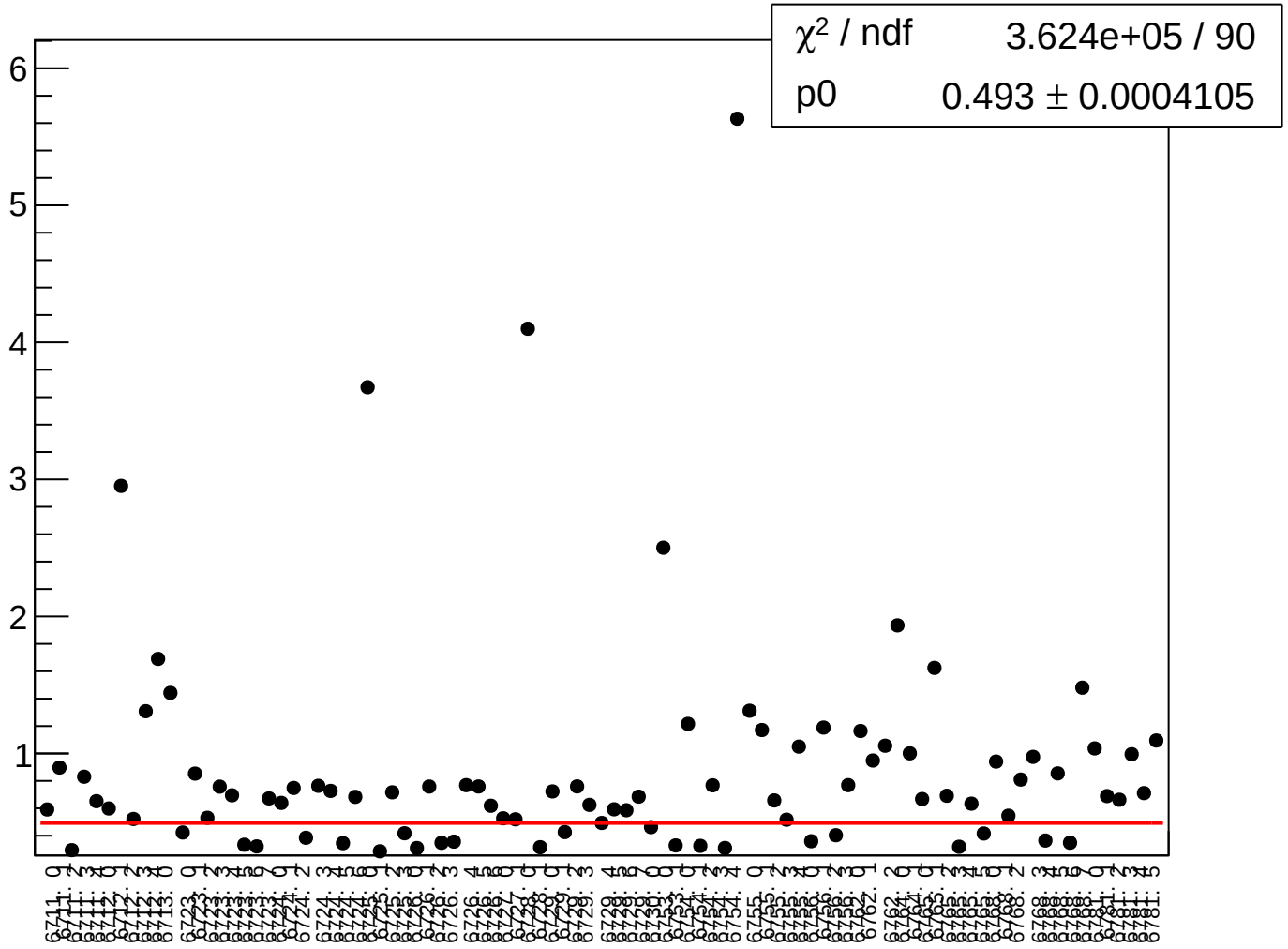

yield_cav4cY_mean vs run
χ² / ndf 9.617e+05 / 90
p0 −41.39 ± 0.0004555
−40
−40.5
−41
−41.5
−42
pull
Entries 91
Mean 72.27
Std Dev 80.95
300
200
100
0
−100
−200

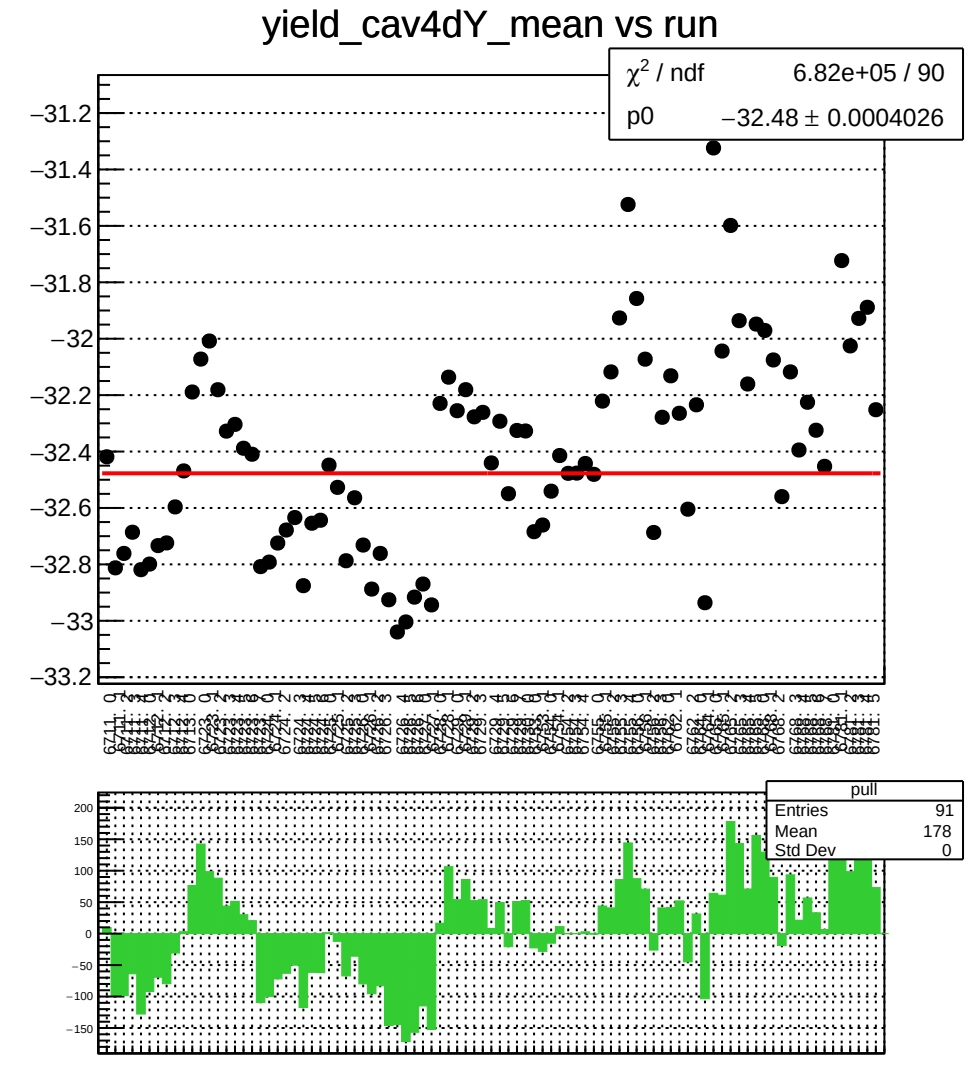

pull1D
Entries 91
Mean −0.2796
Std Dev 5.25
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

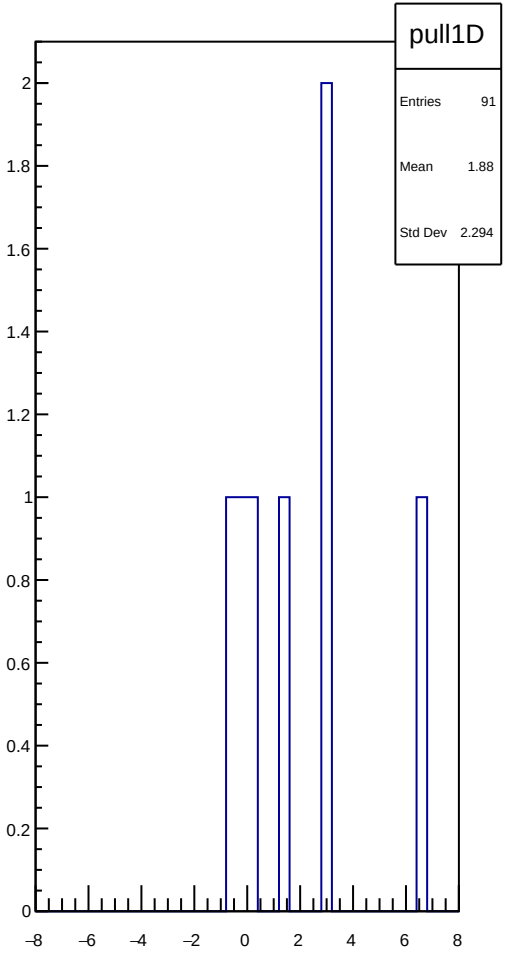

yield_cav4cY_rms vs run
χ² / ndf 1.574e+05 / 90
p0 0.4133 ± 0.0003221
2.5
2
1.5
1
0.5

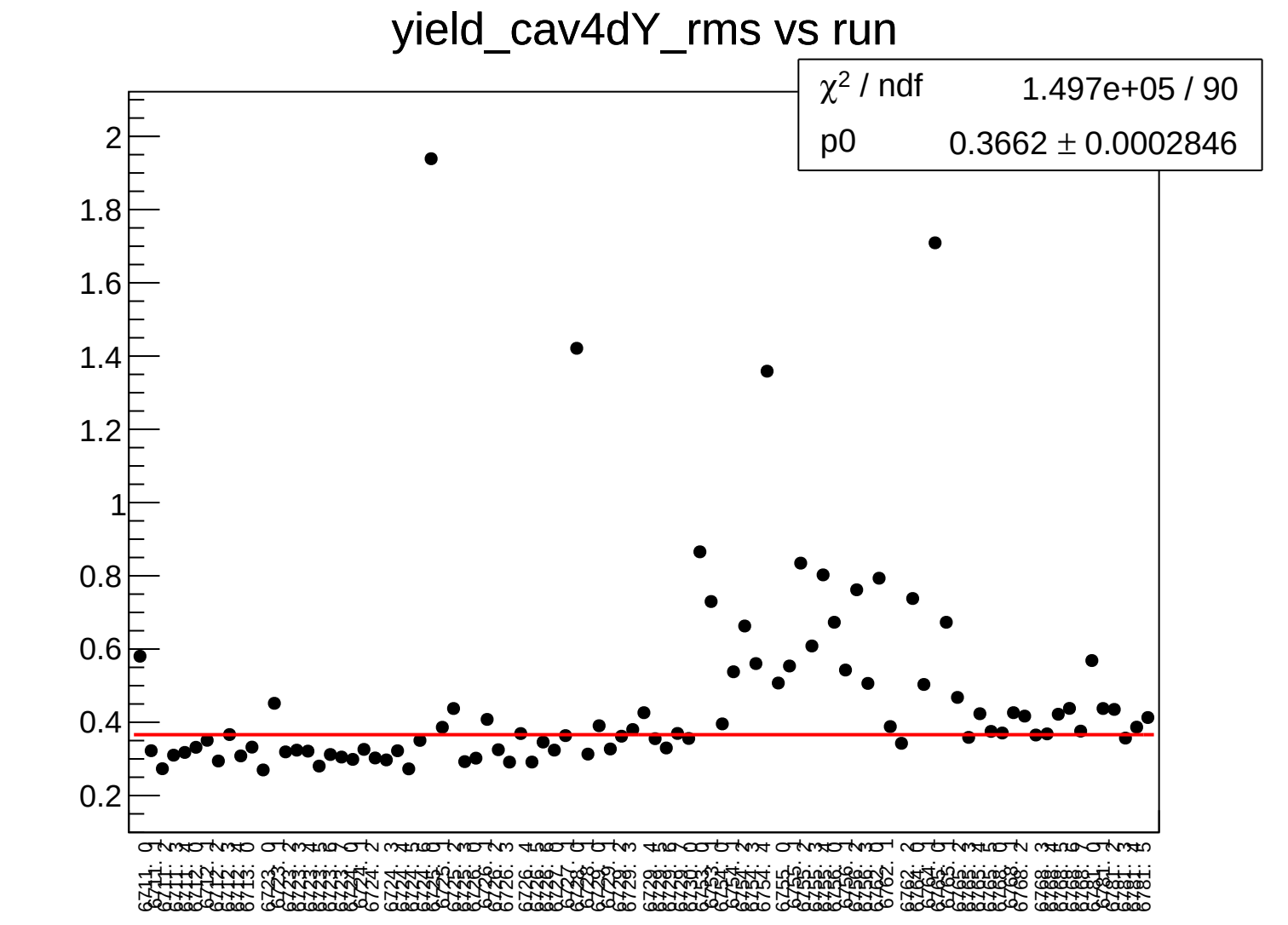

yield_cav4dX_mean vs run
χ² / ndf 8.209e+06 / 90
p0 −0.5243 ± 0.0005806
pull
Entries 91
Mean 302.4
Std Dev 0
pull1D
Entries 91
Mean 6.454
Std Dev 0

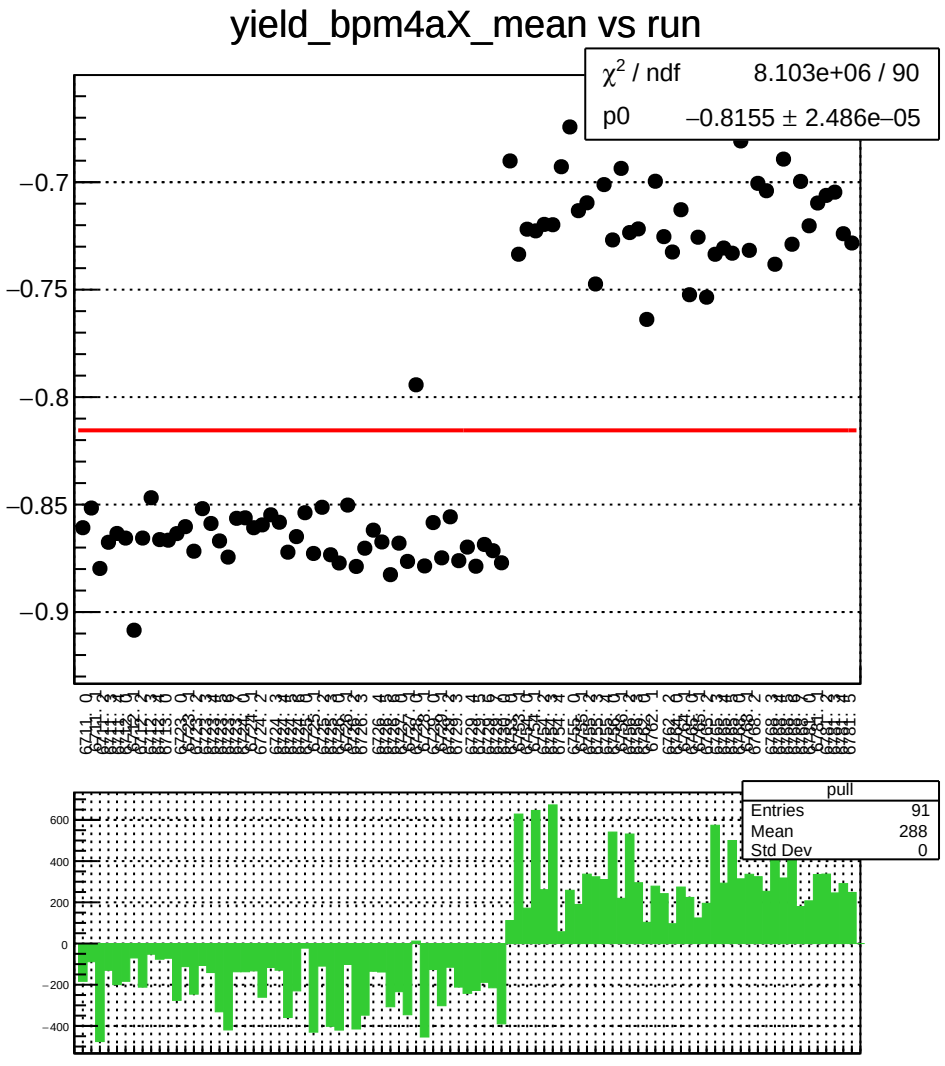
yield_cav4dX_rms vs run

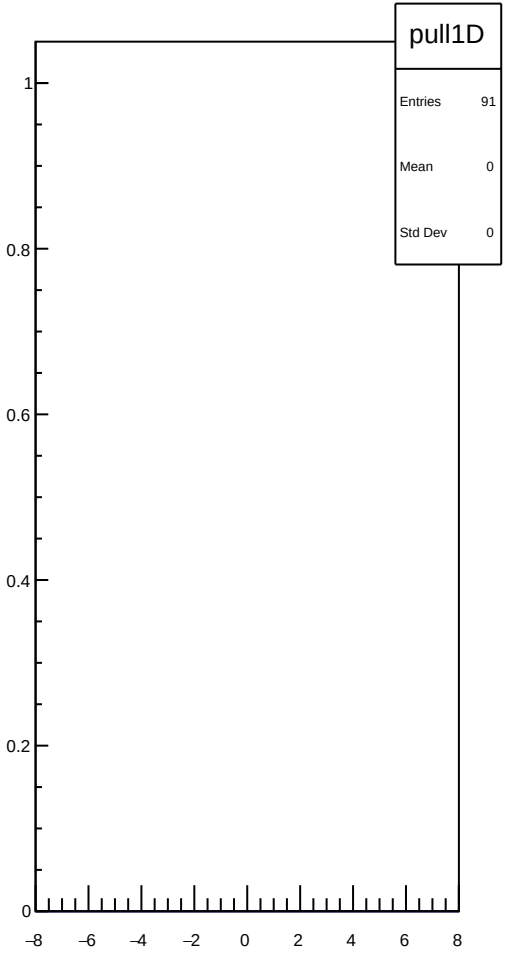



yield_cav4dY_mean vs run
χ² / ndf 6.82e+05 / 90
p0 −32.48 ± 0.0004026
−31.2
−31.4
−31.6
−31.8
−32
−32.2
−32.4
−32.6
−32.8
−33
−33.2
pull
Entries 91
Mean 178
Std Dev 0
200
150
100
50
0
−50
−100
−150

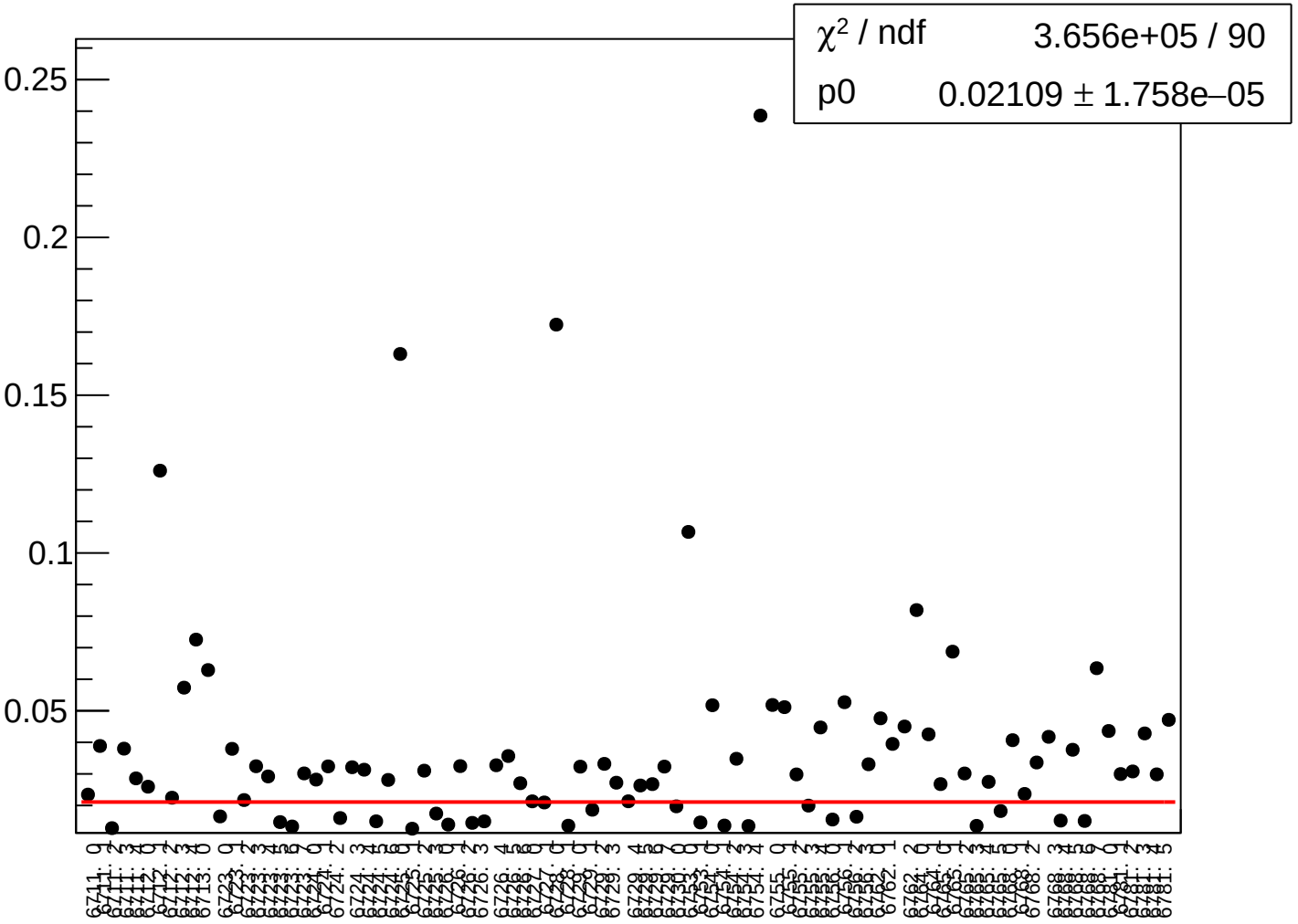

pull1D
Entries 91
Mean 1.88
Std Dev 2.294
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

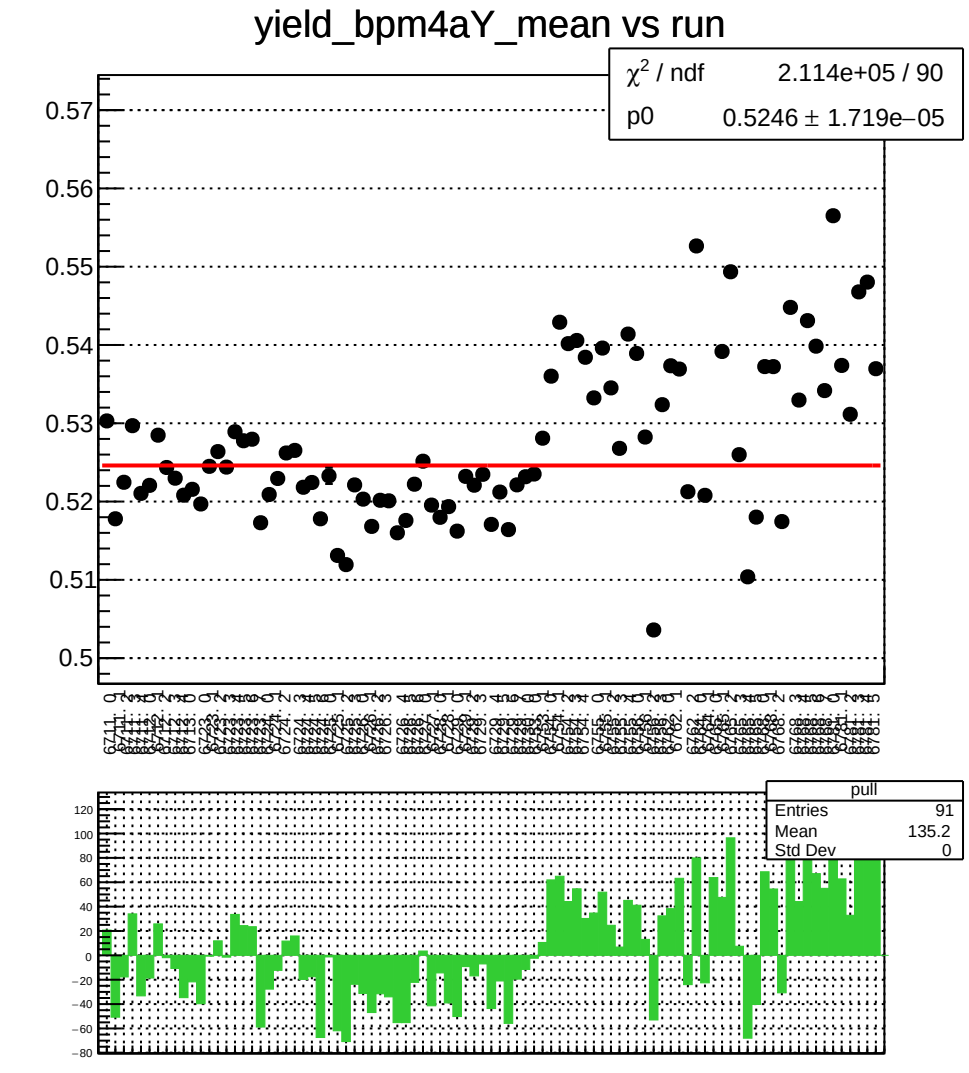

yield_cav4dY_rms vs run
χ² / ndf 1.497e+05 / 90
p0 0.3662 ± 0.0002846
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

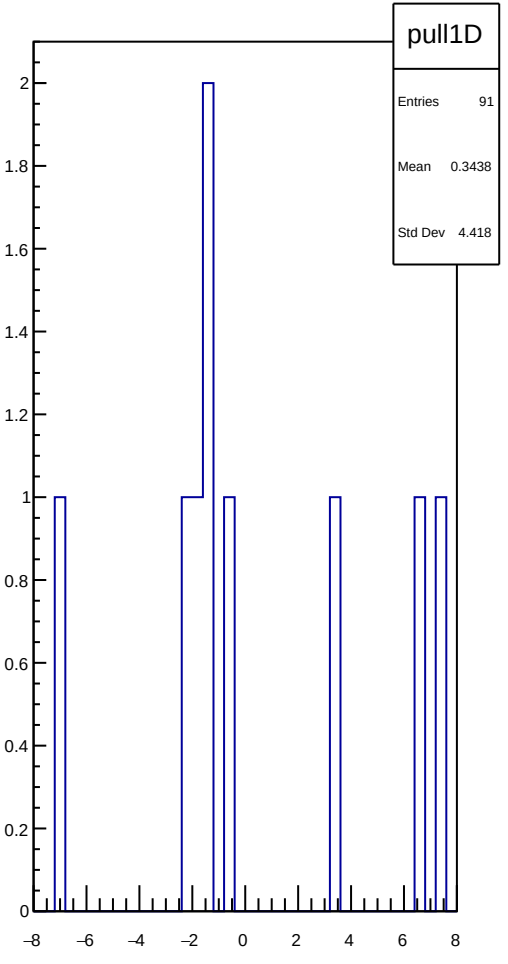

yield_bpm4aX_mean vs run
χ² / ndf 8.103e+06 / 90
p0 −0.8155 ± 2.486e−05
−0.7
−0.75
−0.8
−0.85
−0.9
pull
Entries 91
Mean 288
Std Dev 0
600
400
200
0
−200
−400

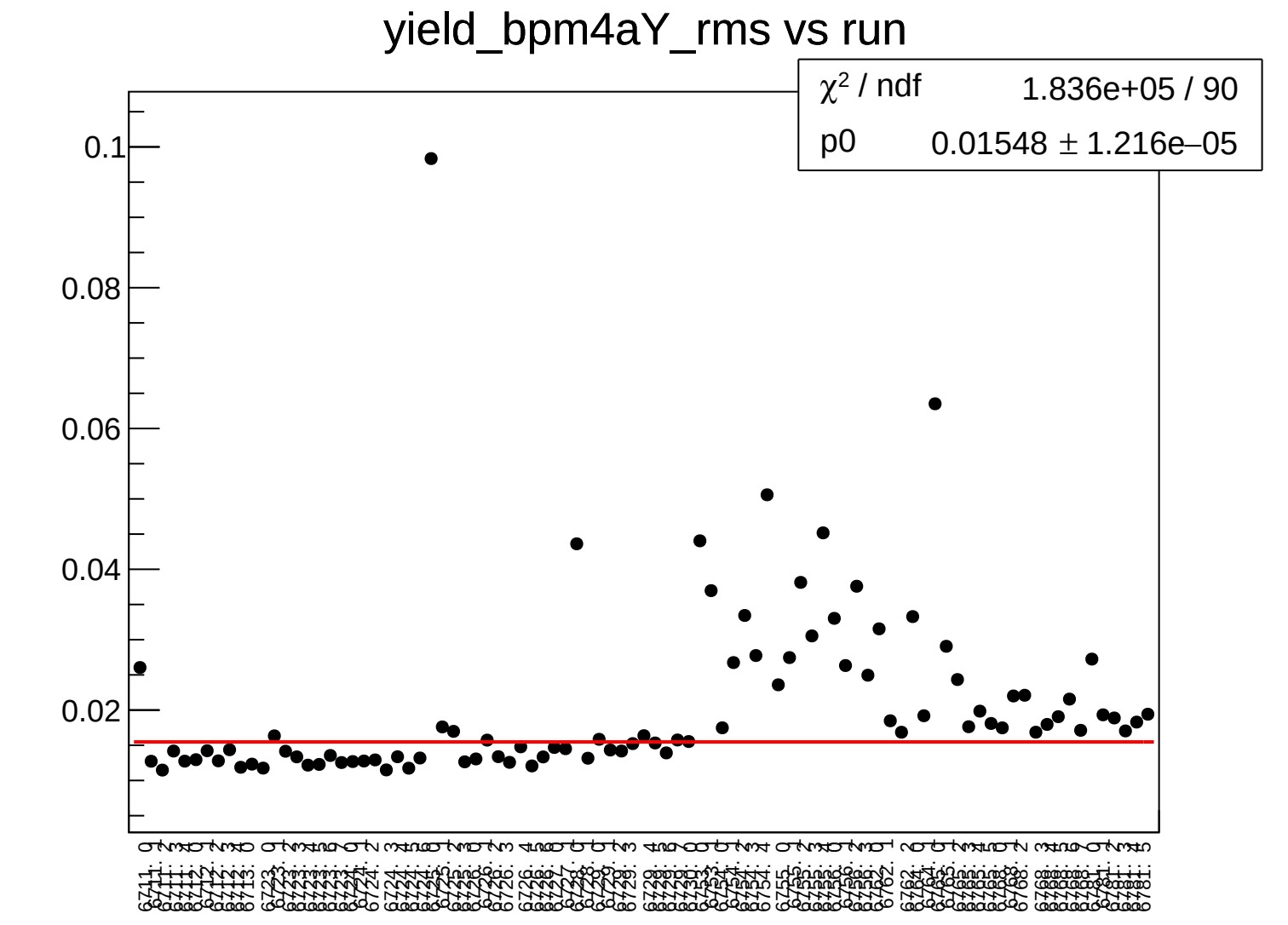

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

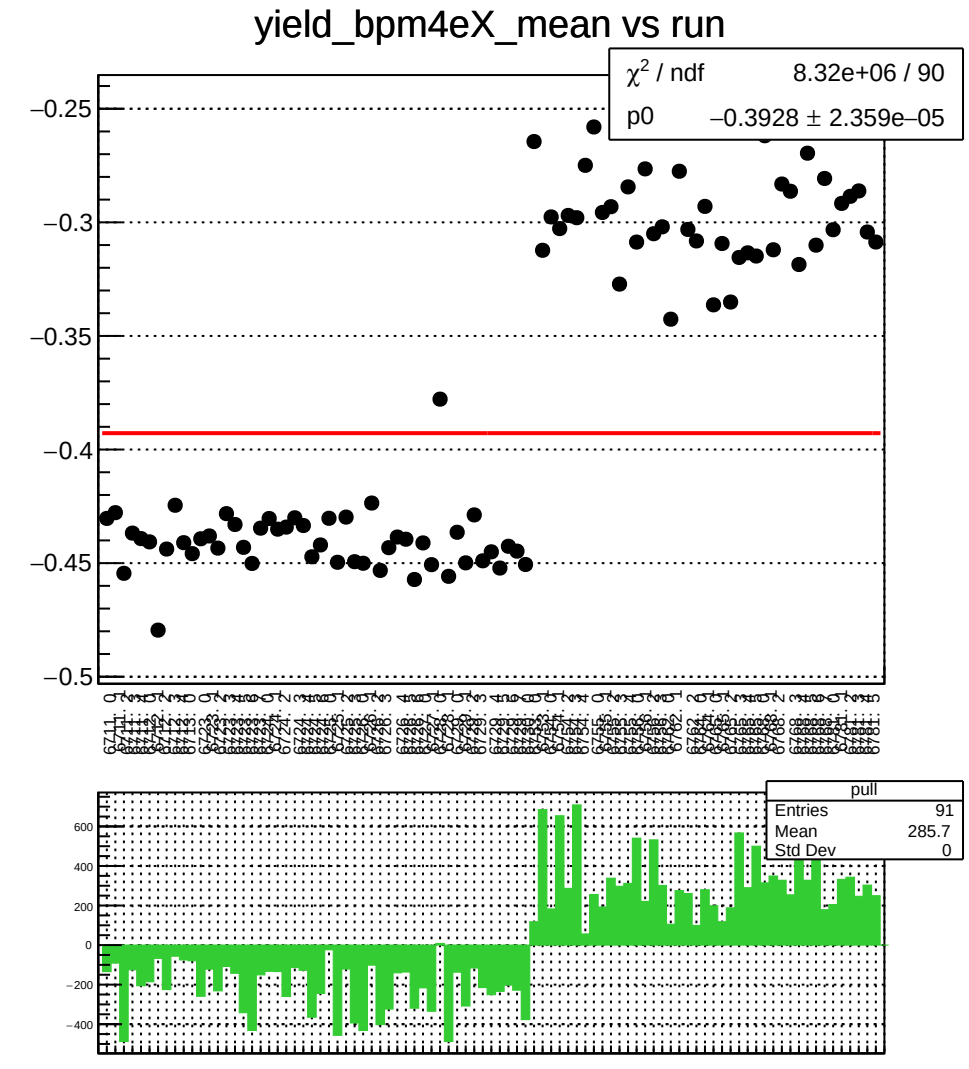
yield_bpm4aX_rms vs run

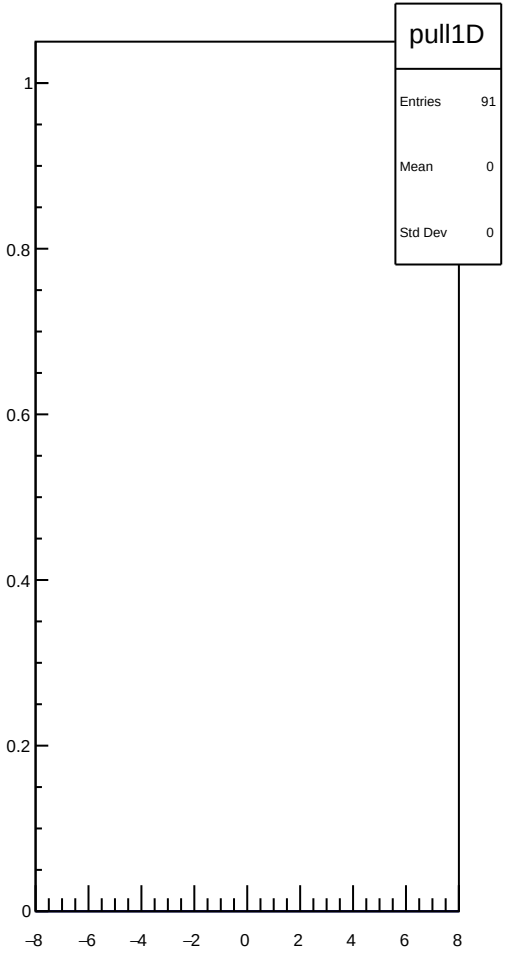


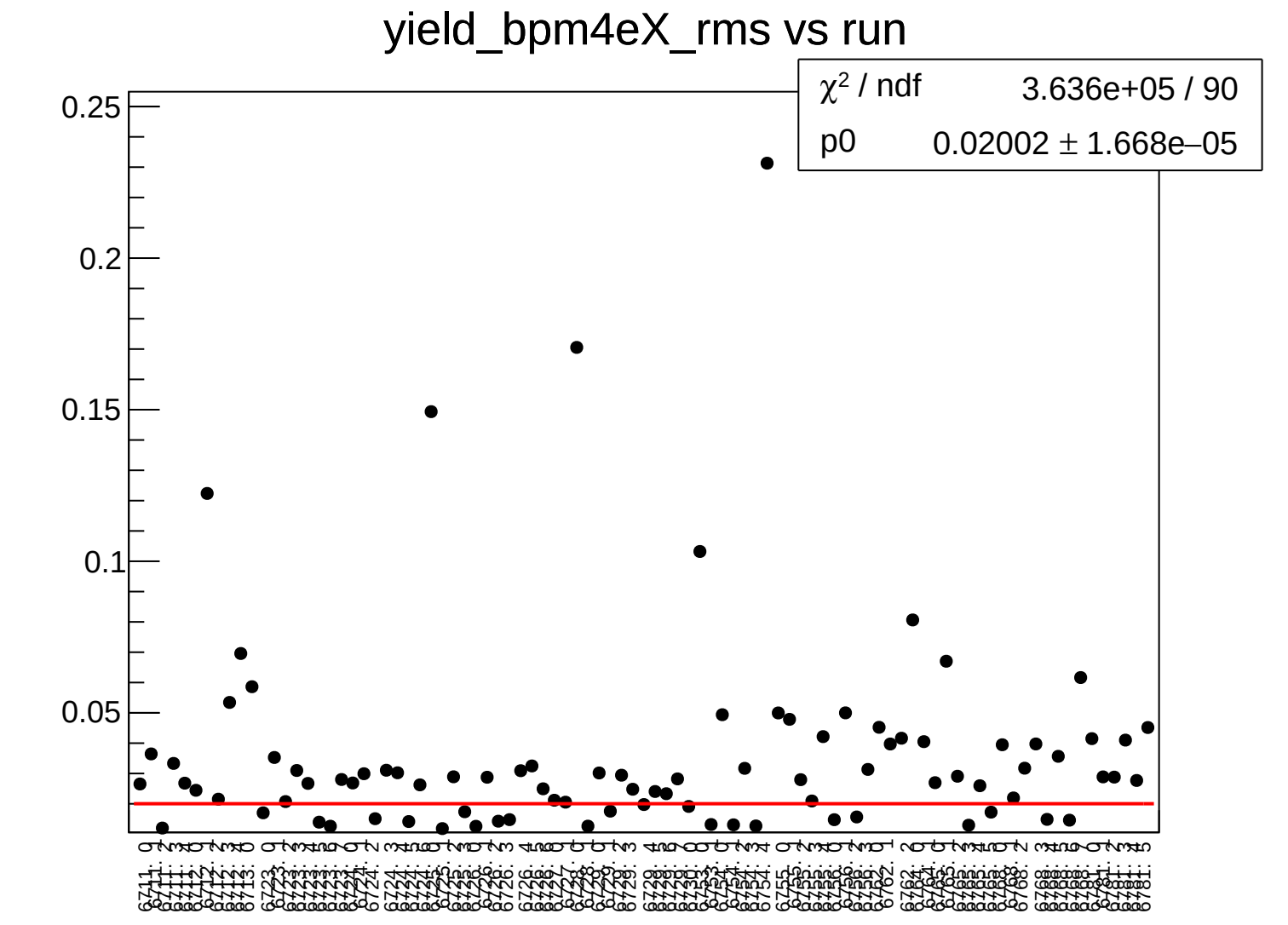

yield_bpm4aY_mean vs run
χ² / ndf 2.114e+05 / 90
p0 0.5246 ± 1.719e−05
0.57
0.56
0.55
0.54
0.53
0.52
0.51
0.5
pull
Entries 91
Mean 135.2
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

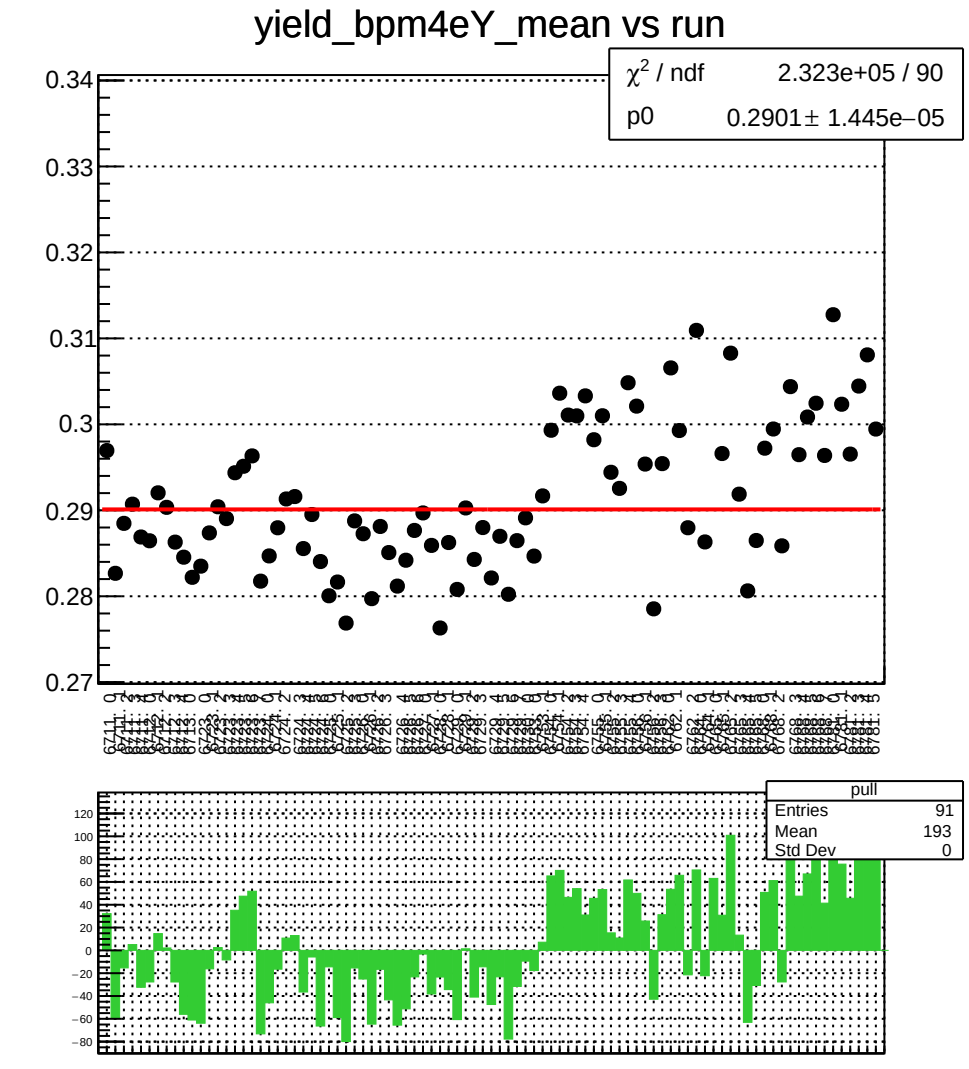

pull1D
Entries 91
Mean 0.3438
Std Dev 4.418
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

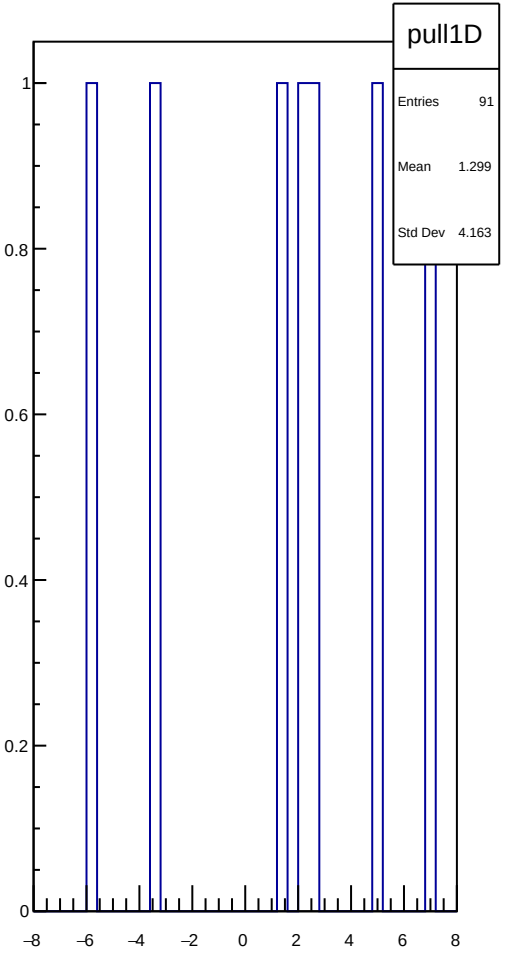

yield_bpm4aY_rms vs run
χ² / ndf 1.836e+05 / 90
p0 0.01548 ± 1.216e−05
0.1
0.08
0.06
0.04
0.02

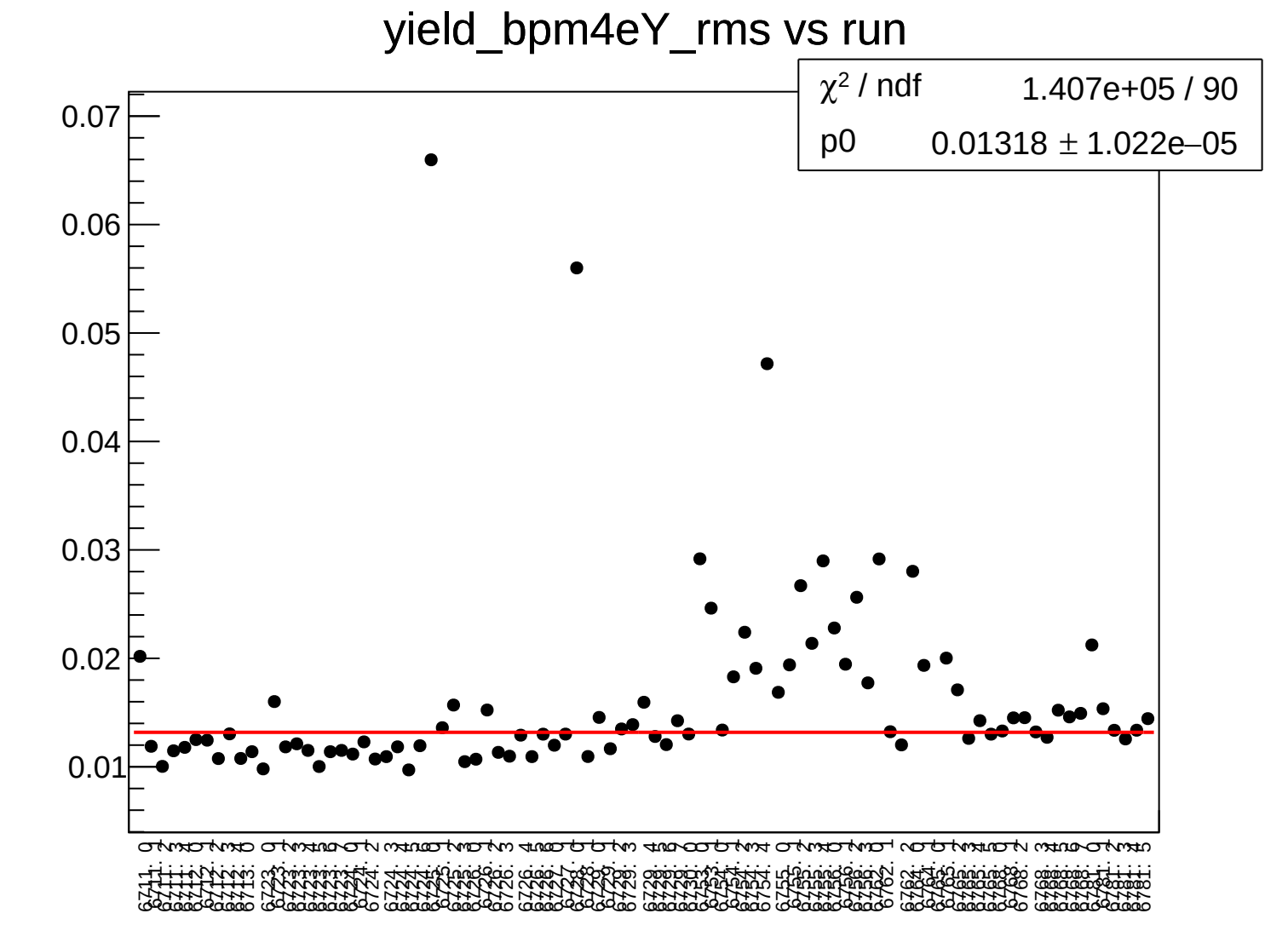

yield_bpm4eX_mean vs run
χ² / ndf 8.32e+06 / 90
p0 −0.3928 ± 2.359e−05
−0.25
−0.3
−0.35
−0.4
−0.45
−0.5
pull
Entries 91
Mean 285.7
Std Dev 0
600
400
200
0
−200
−400

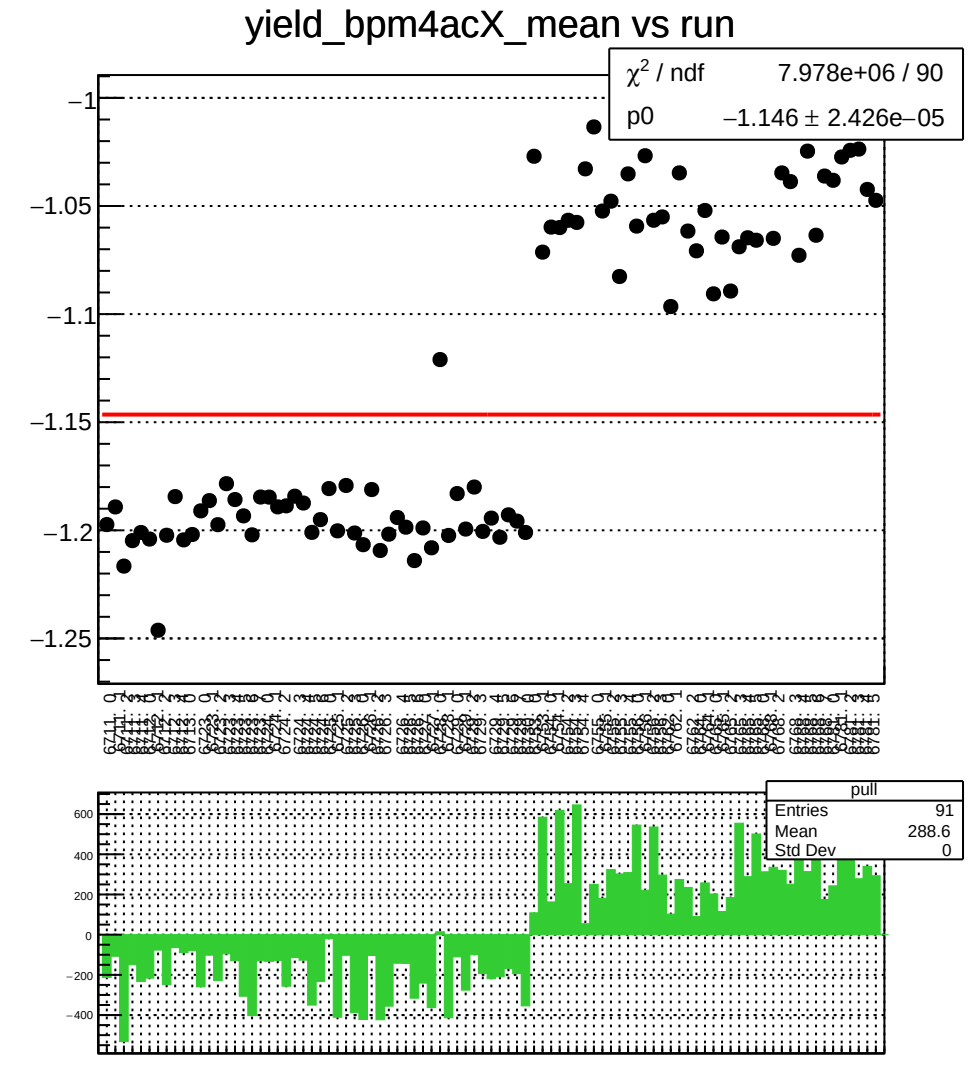

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

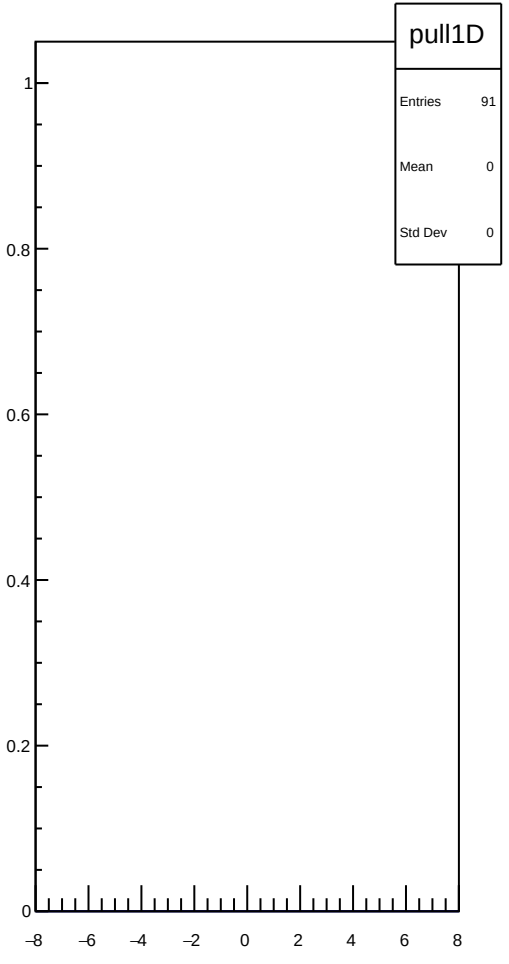

yield_bpm4eX_rms vs run
χ² / ndf 3.636e+05 / 90
p0 0.02002 ± 1.668e–05
0.25
0.2
0.15
0.1
0.05

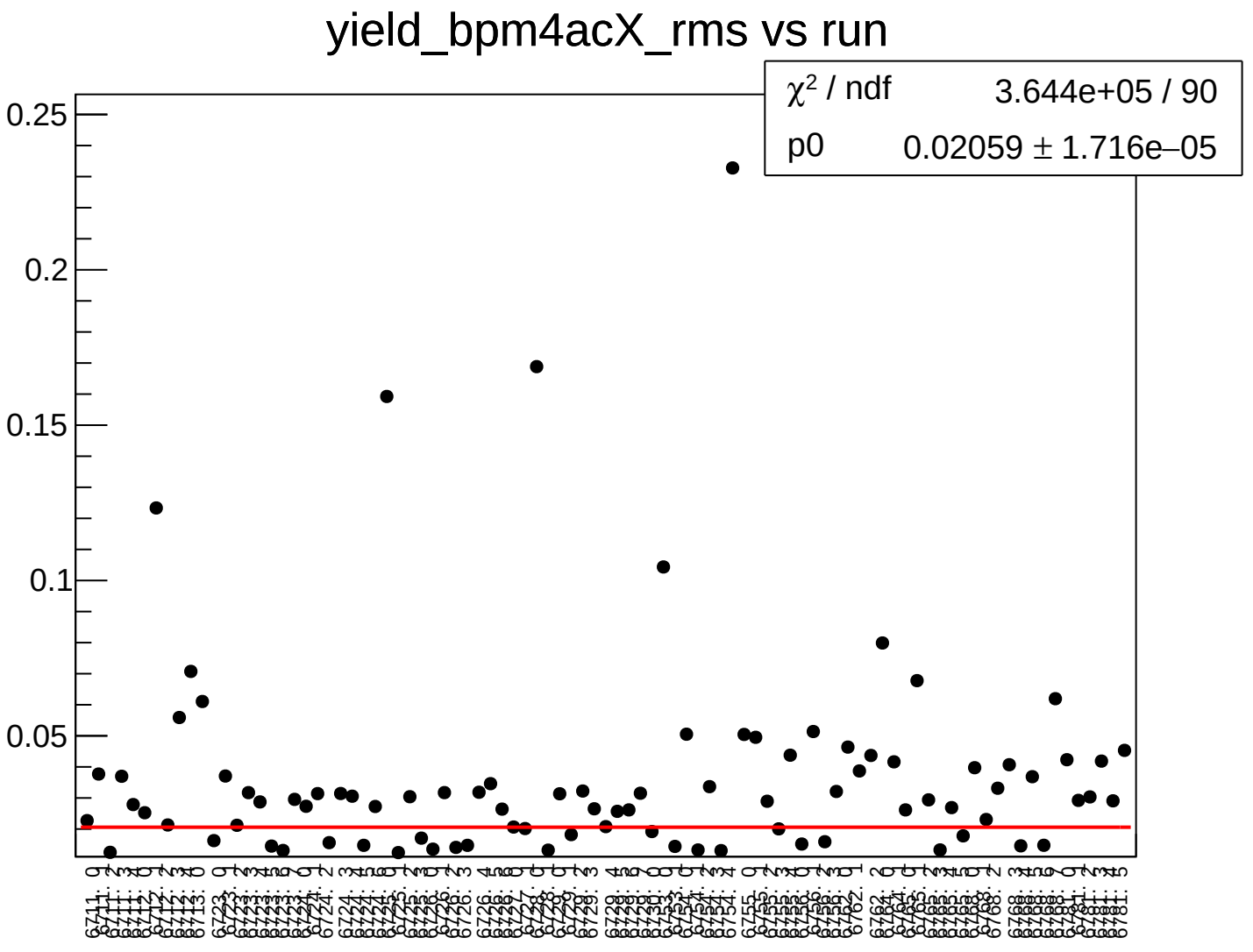

yield_bpm4eY_mean vs run
χ² / ndf 2.323e+05 / 90
p0 0.2901 ± 1.445e−05
0.34
0.33
0.32
0.31
0.3
0.29
0.28
0.27
pull
Entries 91
Mean 193
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

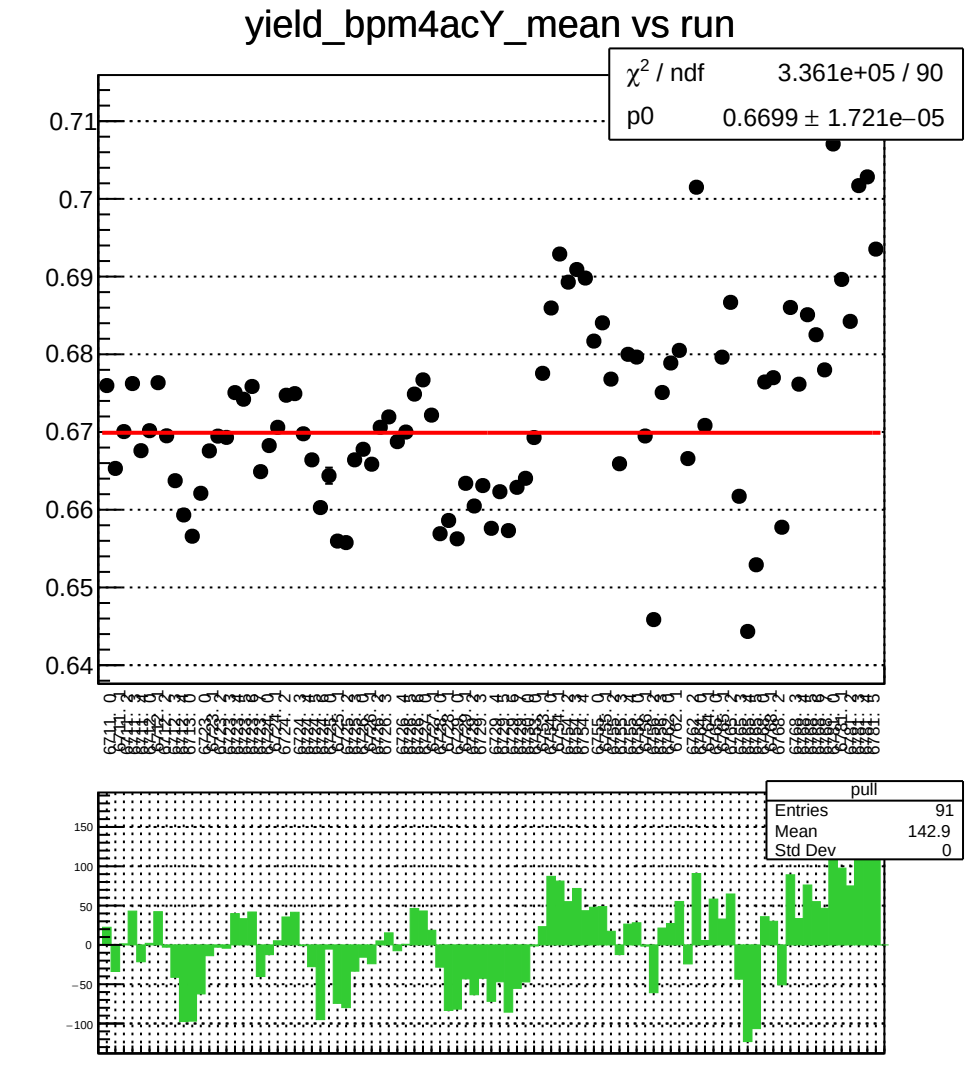

pull1D
Entries 91
Mean 1.299
Std Dev 4.163
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

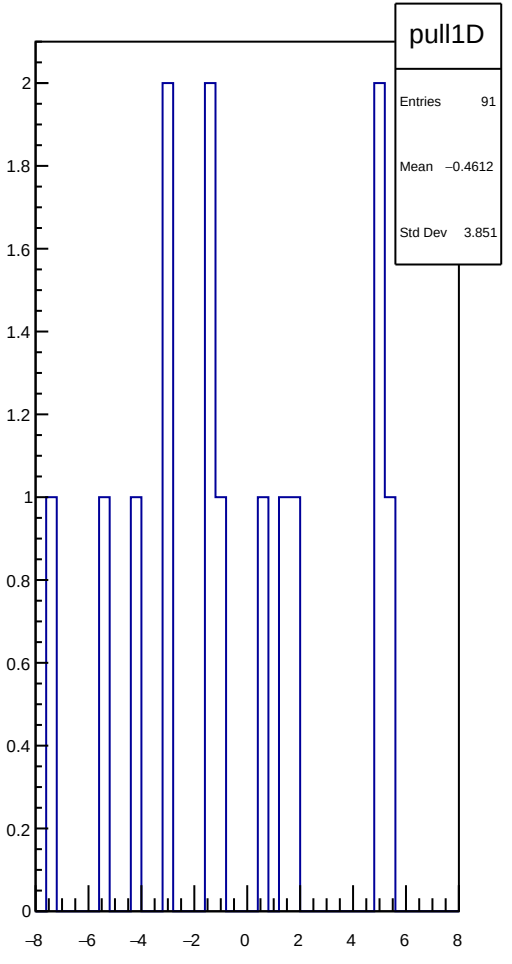

yield_bpm4eY_rms vs run
χ² / ndf 1.407e+05 / 90
p0 0.01318 ± 1.022e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

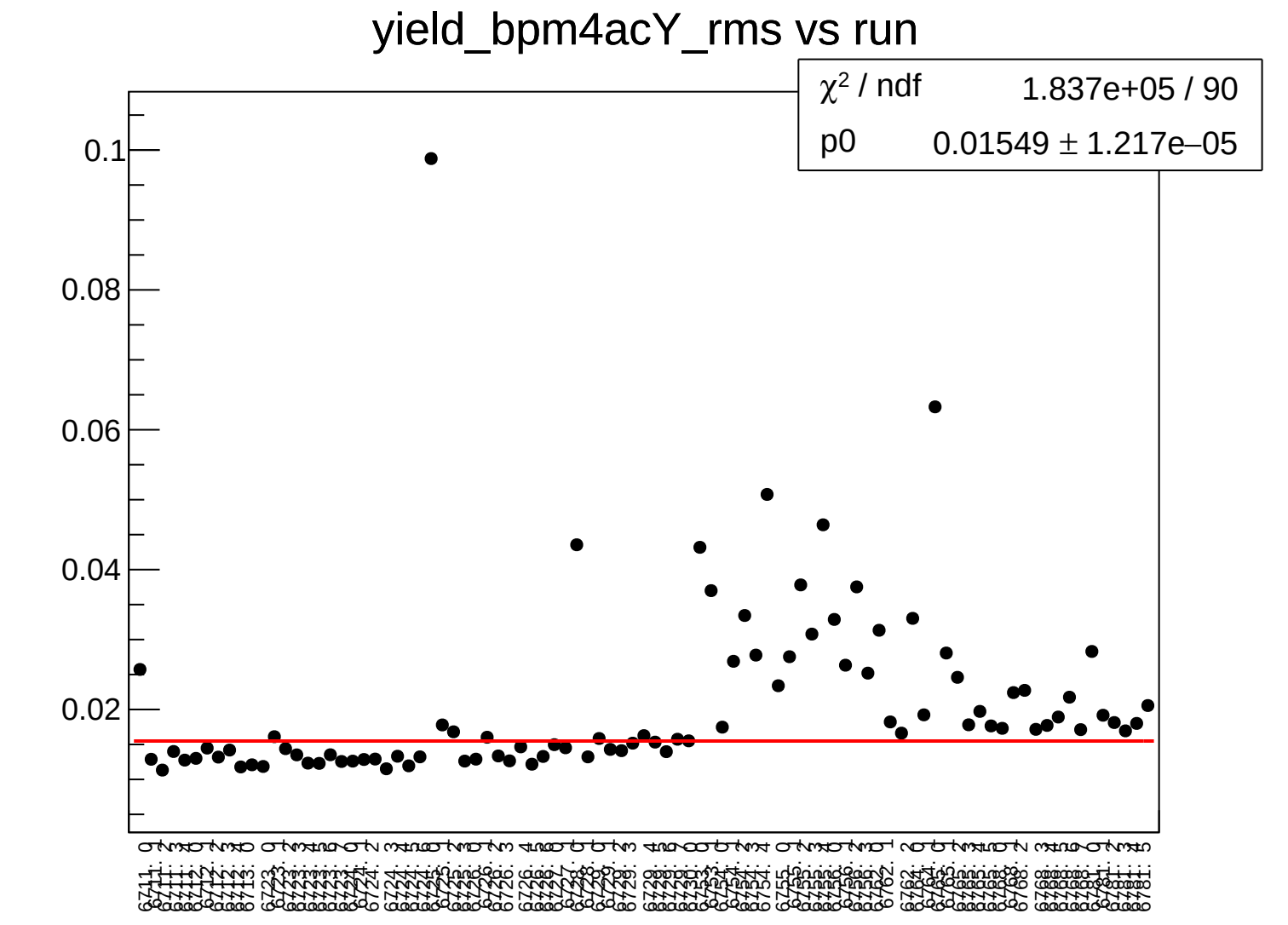

yield_bpm4acX_mean vs run
χ² / ndf 7.978e+06 / 90
p0 −1.146 ± 2.426e−05
−1
−1.05
−1.1
−1.15
−1.2
−1.25
pull
Entries 91
Mean 288.6
Std Dev 0
600
400
200
0
−200
−400

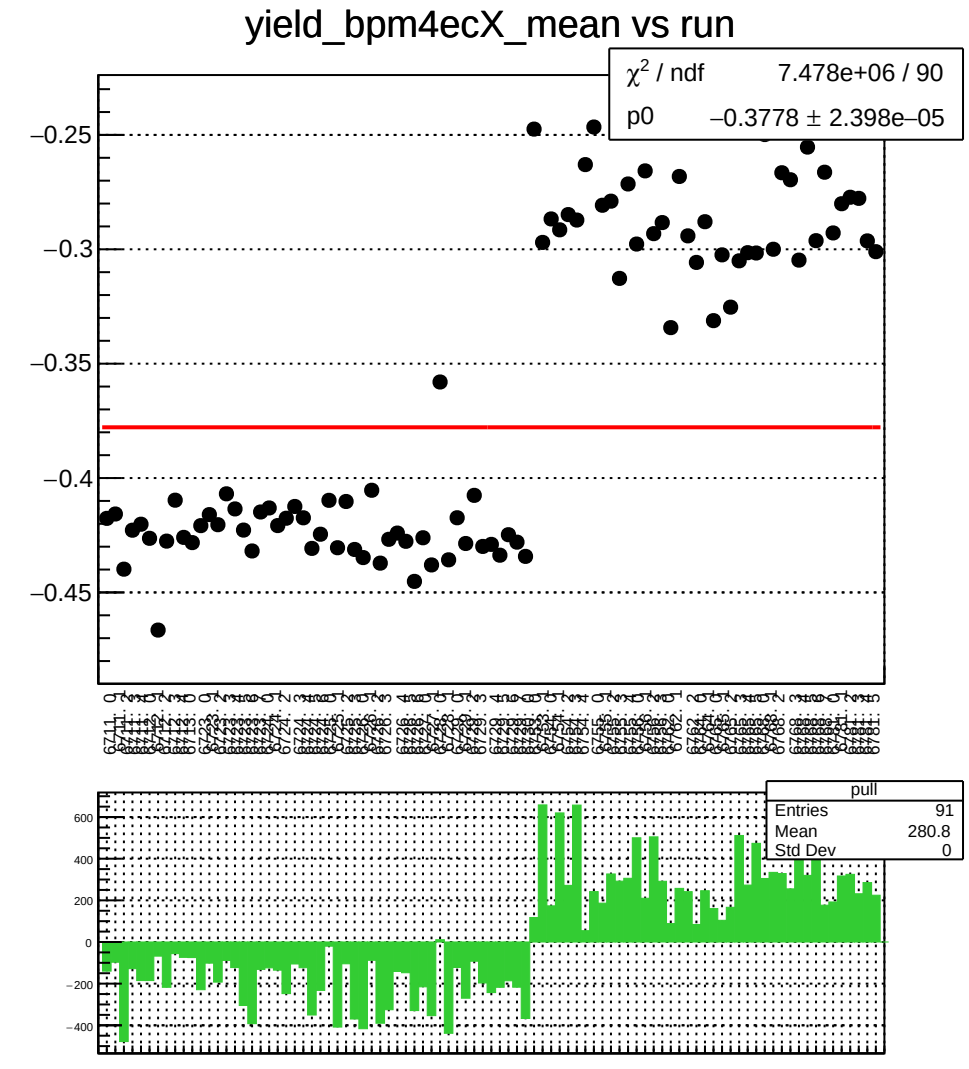

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

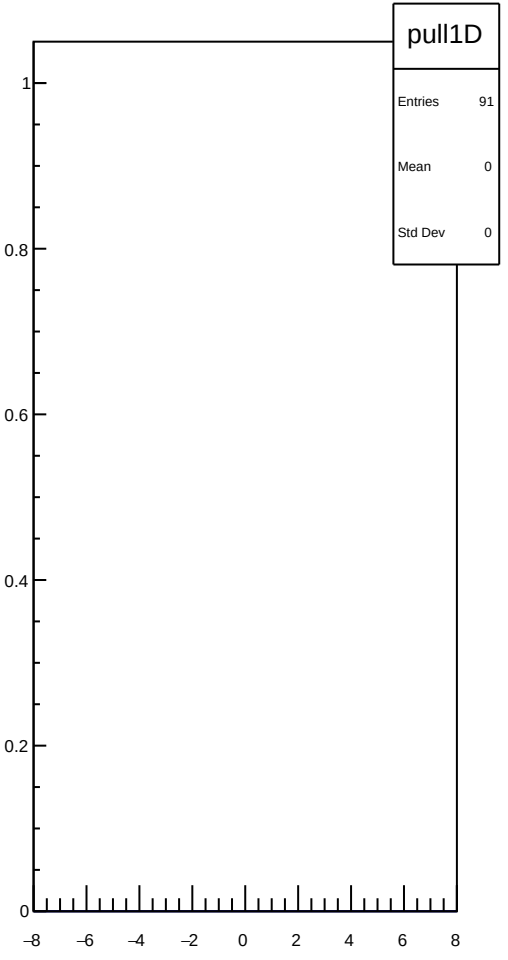

yield_bpm4acX_rms vs run
χ² / ndf 3.644e+05 / 90
p0 0.02059 ± 1.716e–05
0.25
0.2
0.15
0.1
0.05

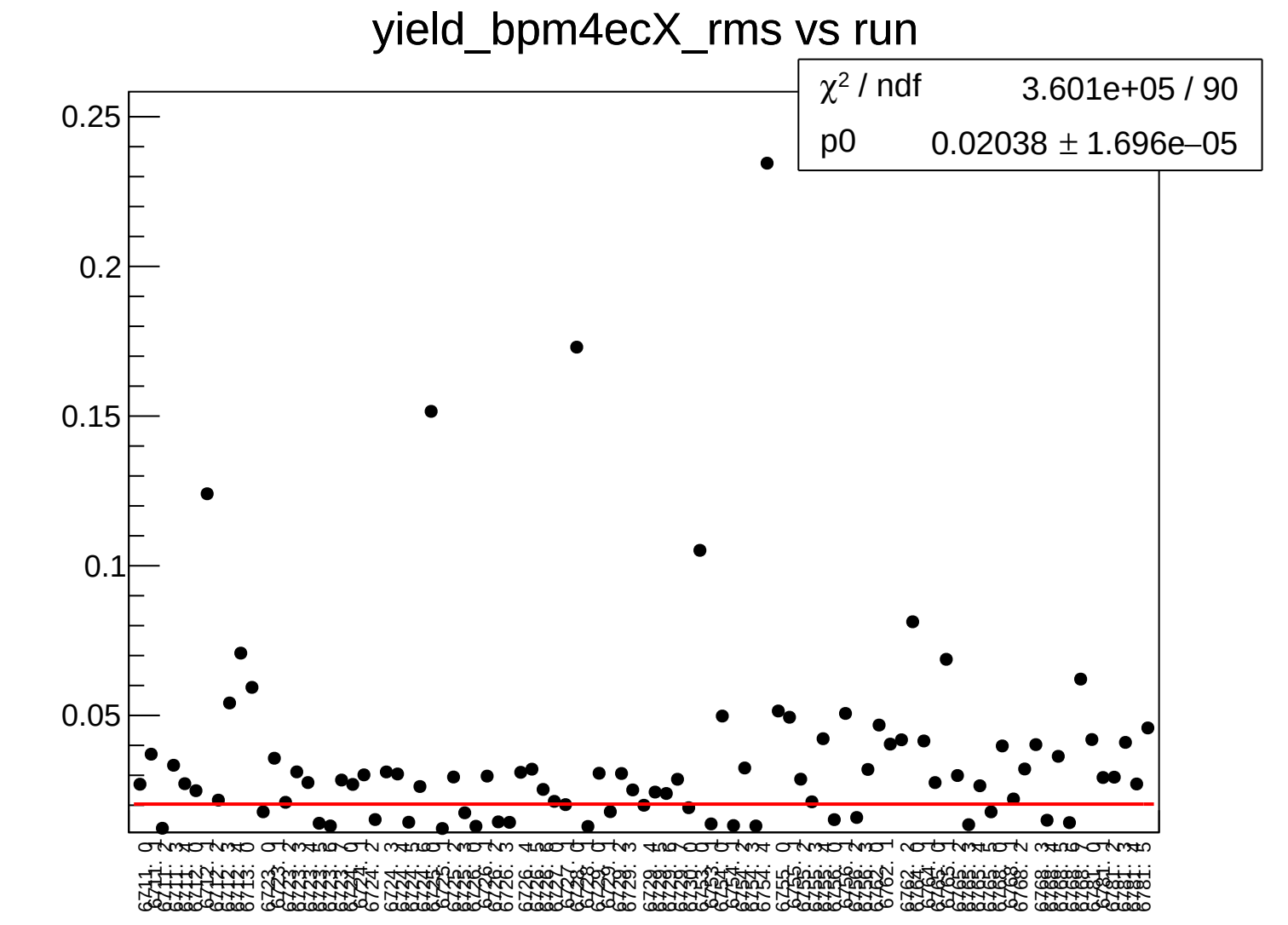

yield_bpm4acY_mean vs run
χ² / ndf 3.361e+05 / 90
p0 0.6699 ± 1.721e−05
0.71
0.7
0.69
0.68
0.67
0.66
0.65
0.64
pull
Entries 91
Mean 142.9
Std Dev 0
150
100
50
0
−50
−100

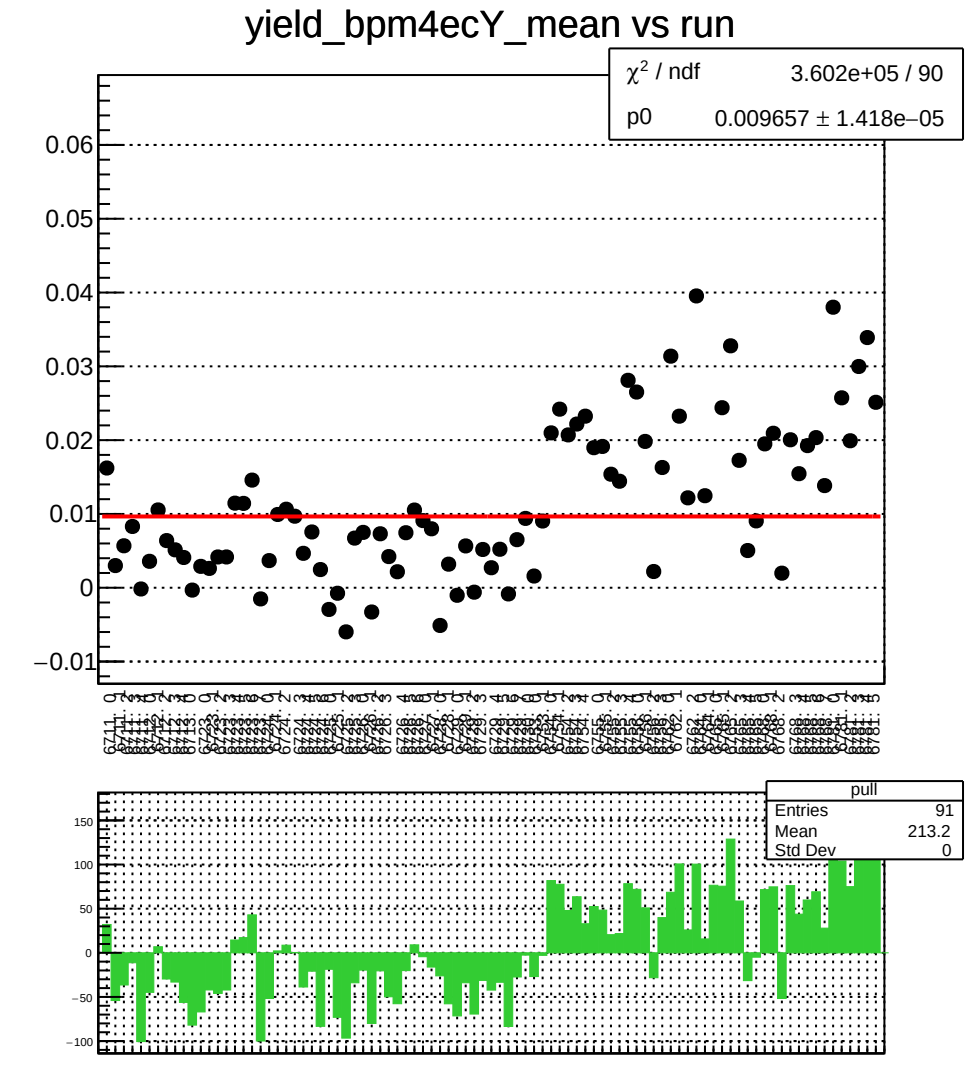

pull1D
Entries 91
Mean −0.4612
Std Dev 3.851
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

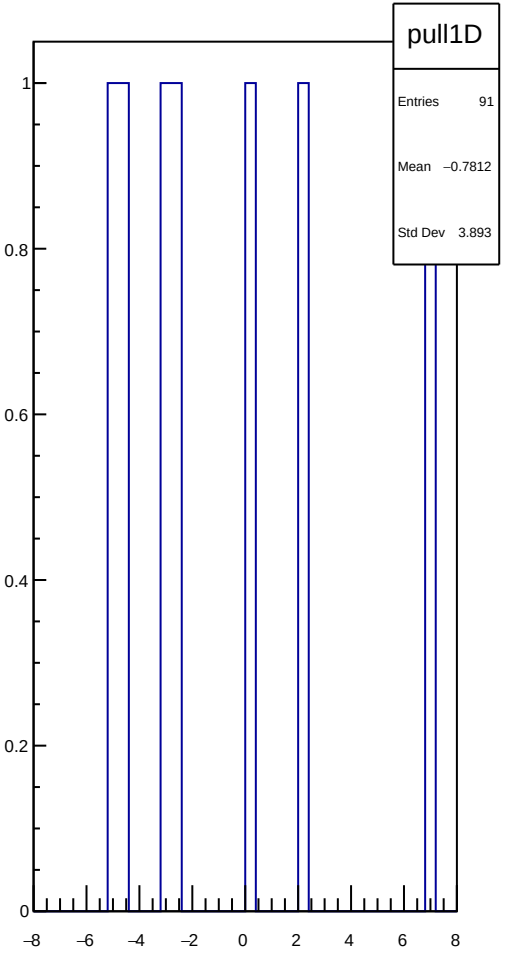

yield_bpm4acY_rms vs run
χ² / ndf 1.837e+05 / 90
p0 0.01549 ± 1.217e−05
0.1
0.08
0.06
0.04
0.02

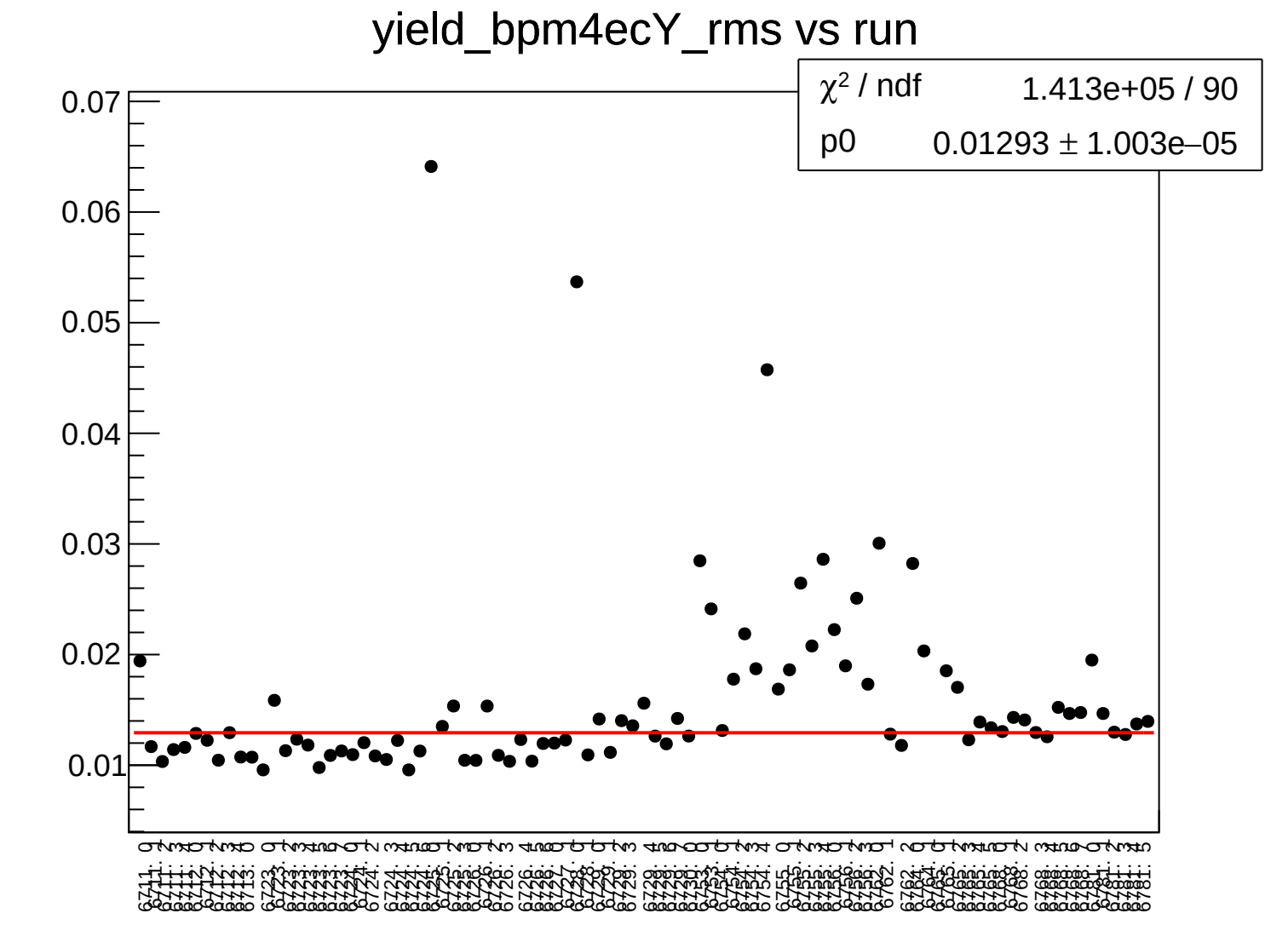

yield_bpm4ecX_mean vs run
χ² / ndf 7.478e+06 / 90
p0 −0.3778 ± 2.398e−05
−0.25
−0.3
−0.35
−0.4
−0.45
pull
Entries 91
Mean 280.8
Std Dev 0
600
400
200
0
−200
−400

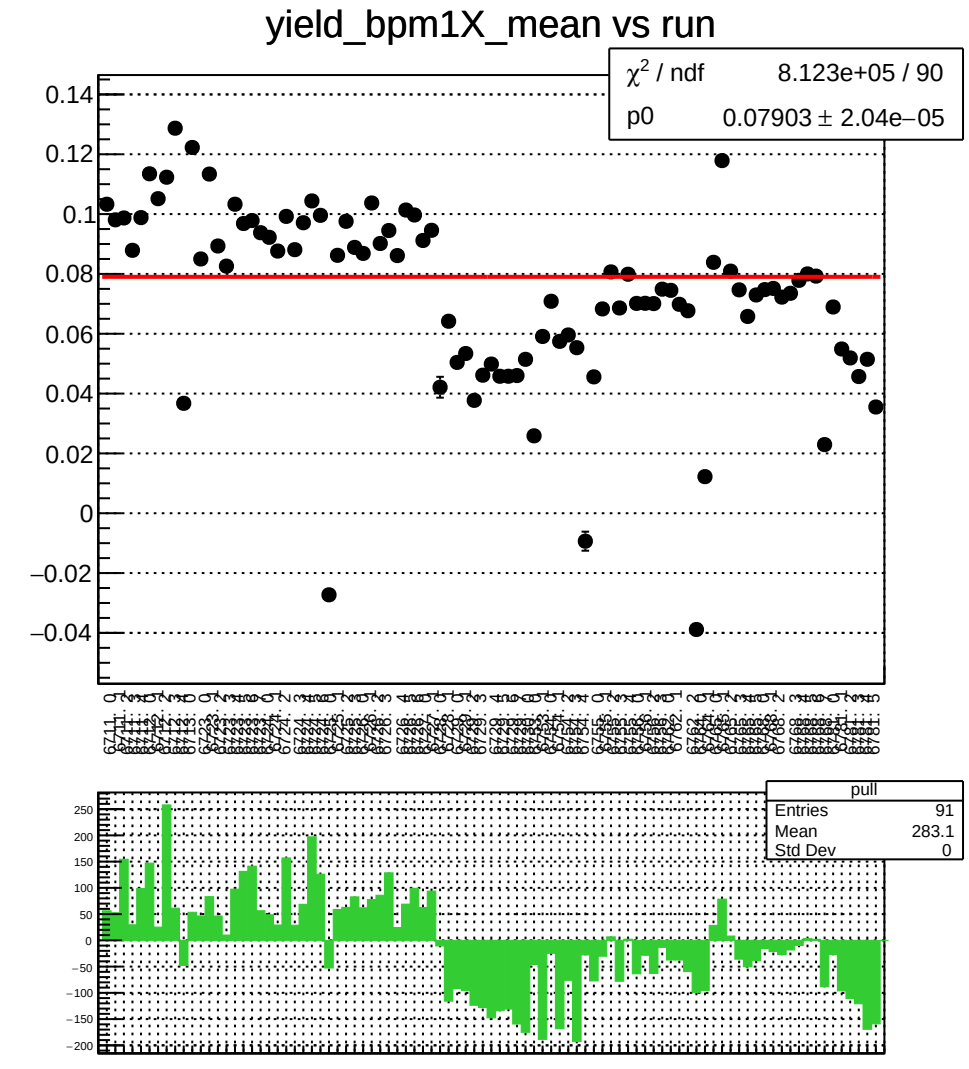

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

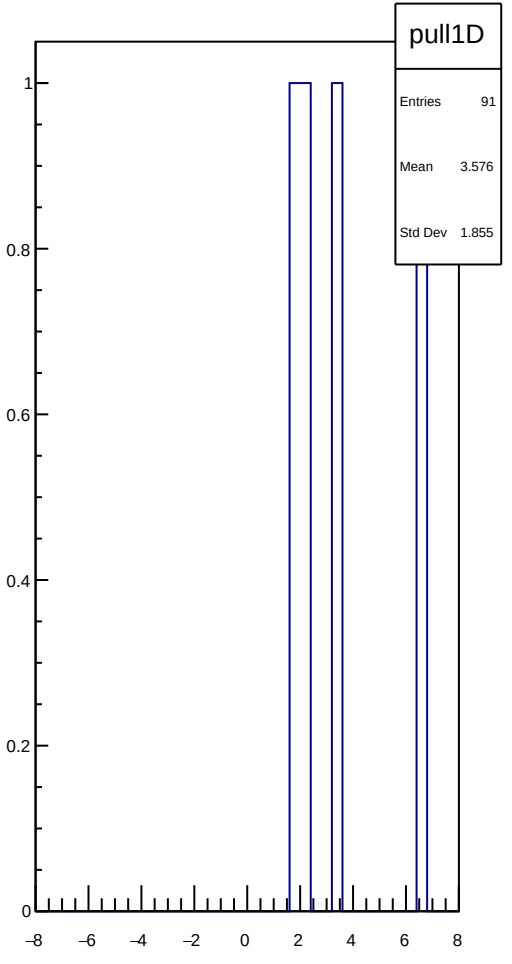

yield_bpm4ecX_rms vs run
χ² / ndf 3.601e+05 / 90
p0 0.02038 ± 1.696e–05
0.25
0.2
0.15
0.1
0.05

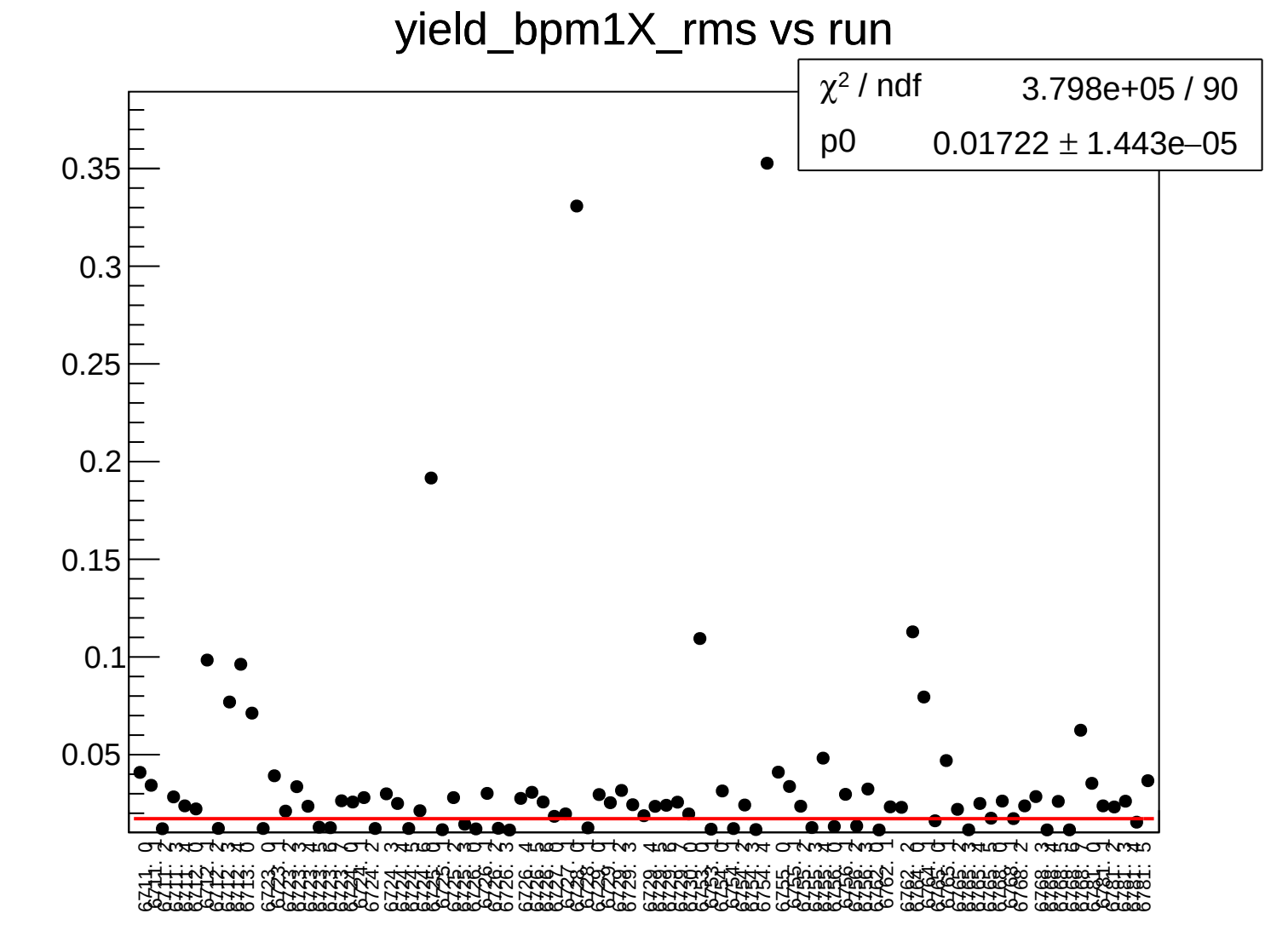

yield_bpm4ecY_mean vs run
χ² / ndf 3.602e+05 / 90
p0 0.009657 ± 1.418e−05
pull
Entries 91
Mean 213.2
Std Dev 0

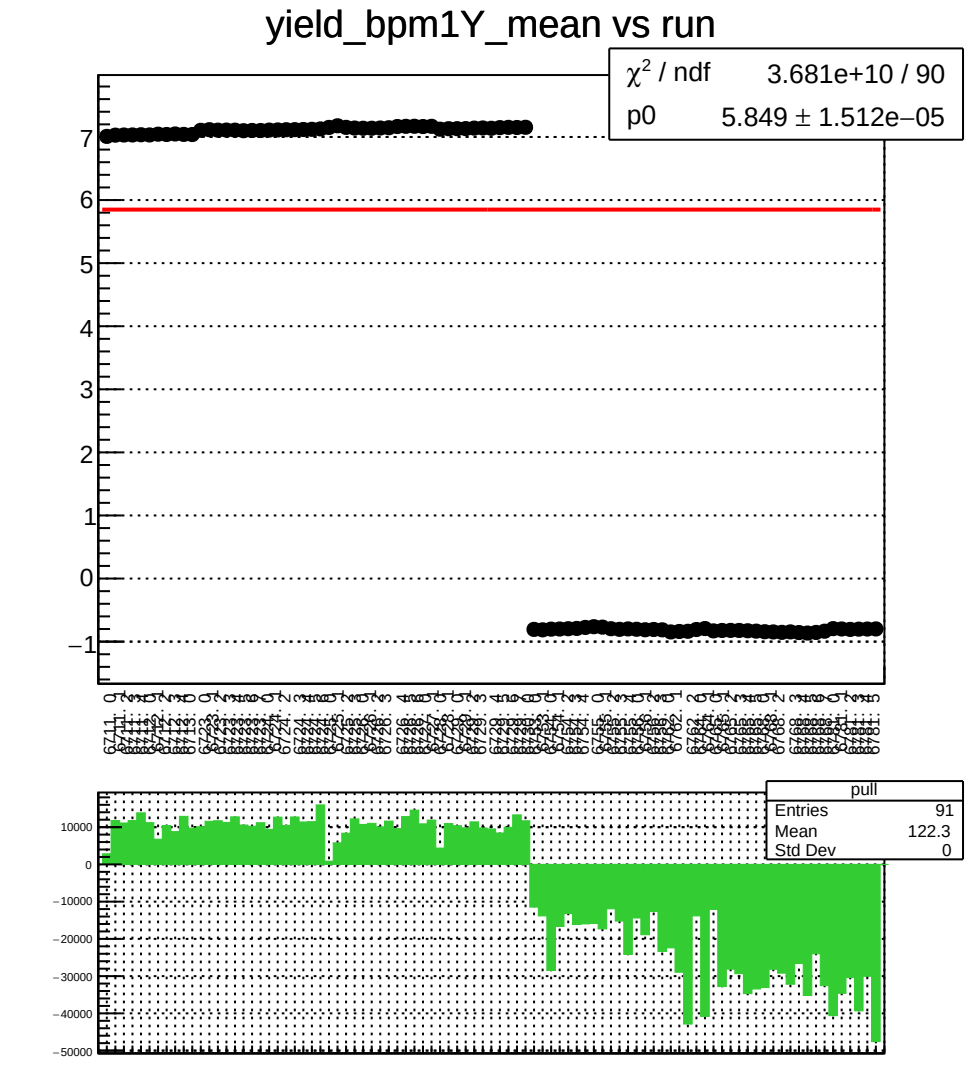

pull1D
Entries 91
Mean −0.7812
Std Dev 3.893

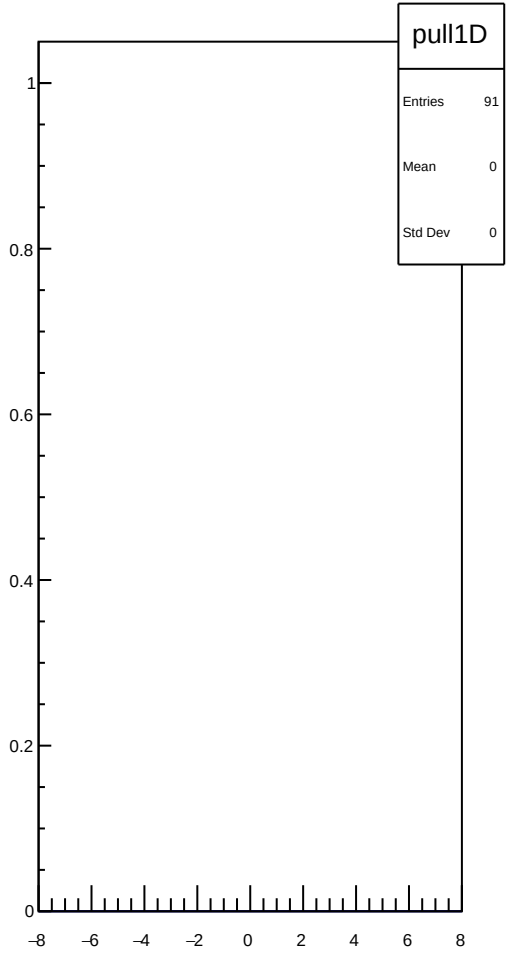

yield_bpm4ecY_rms vs run
χ² / ndf 1.413e+05 / 90
p0 0.01293 ± 1.003e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

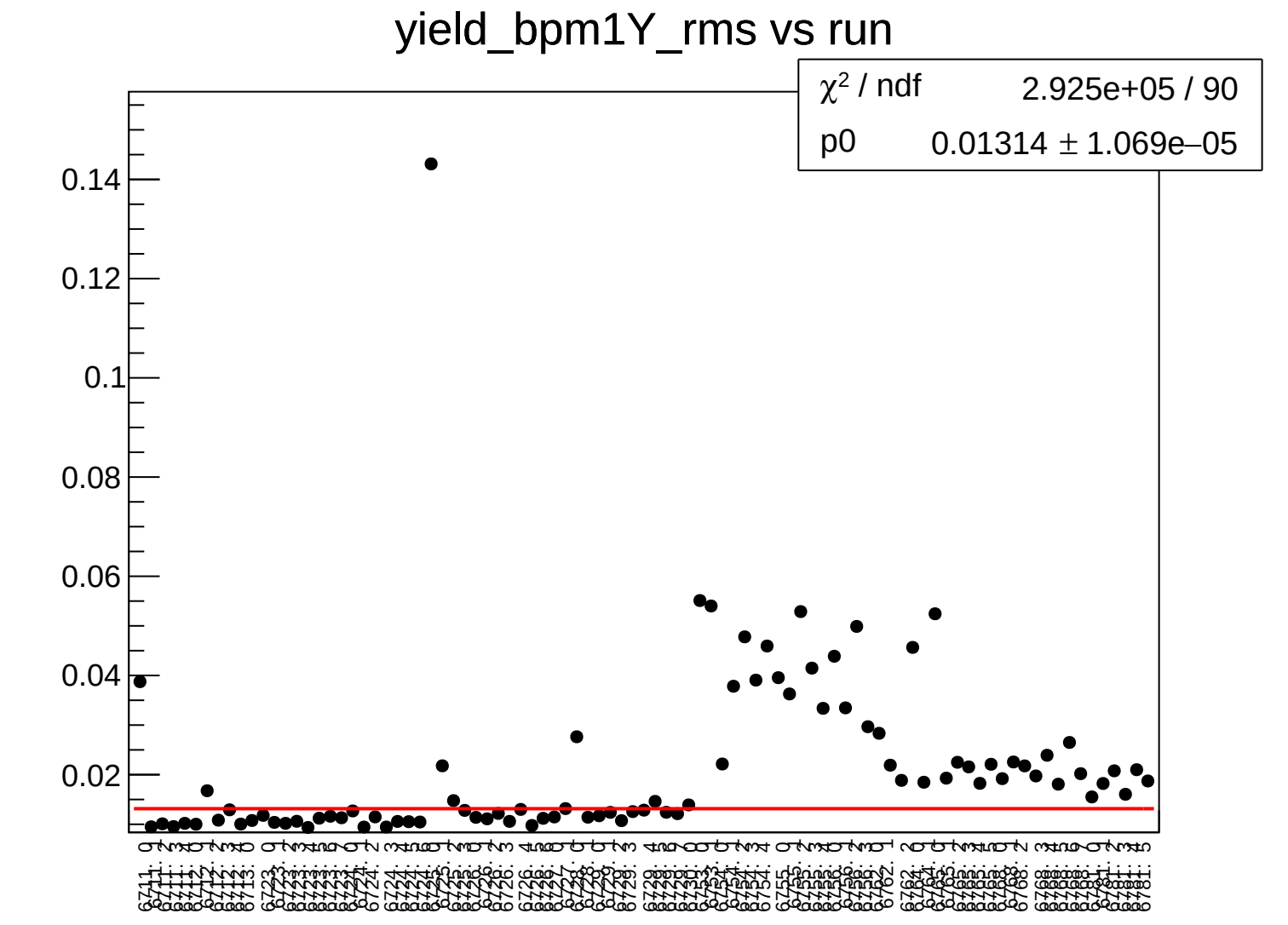

yield_bpm1X_mean vs run
χ² / ndf 8.123e+05 / 90
p0 0.07903 ± 2.04e−05
pull
Entries 91
Mean 283.1
Std Dev 0

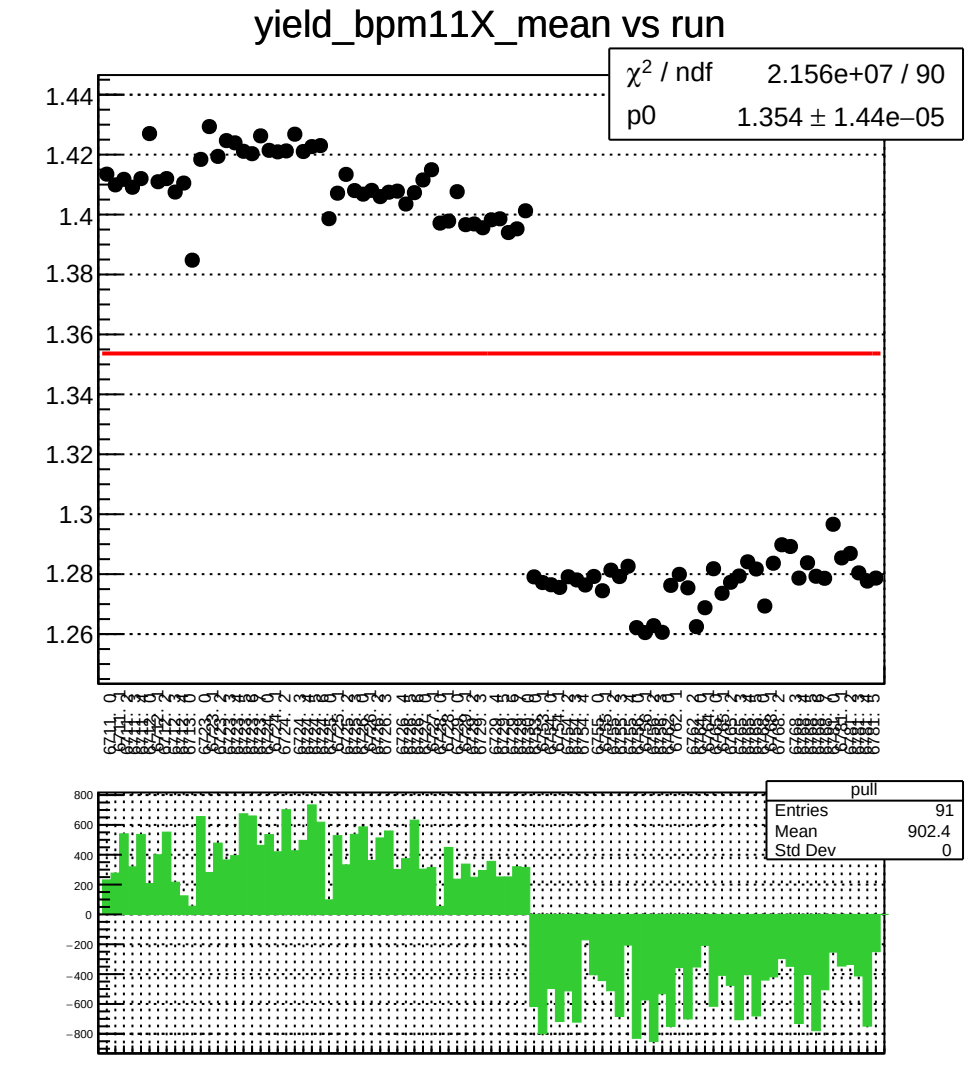

pull1D
Entries 91
Mean 3.576
Std Dev 1.855

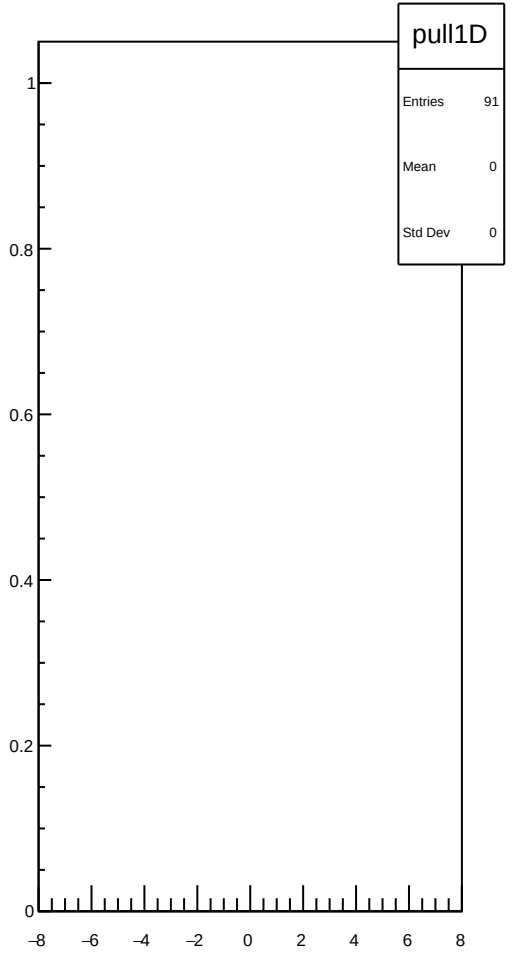

yield_bpm1X_rms vs run
χ² / ndf 3.798e+05 / 90
p0 0.01722 ± 1.443e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

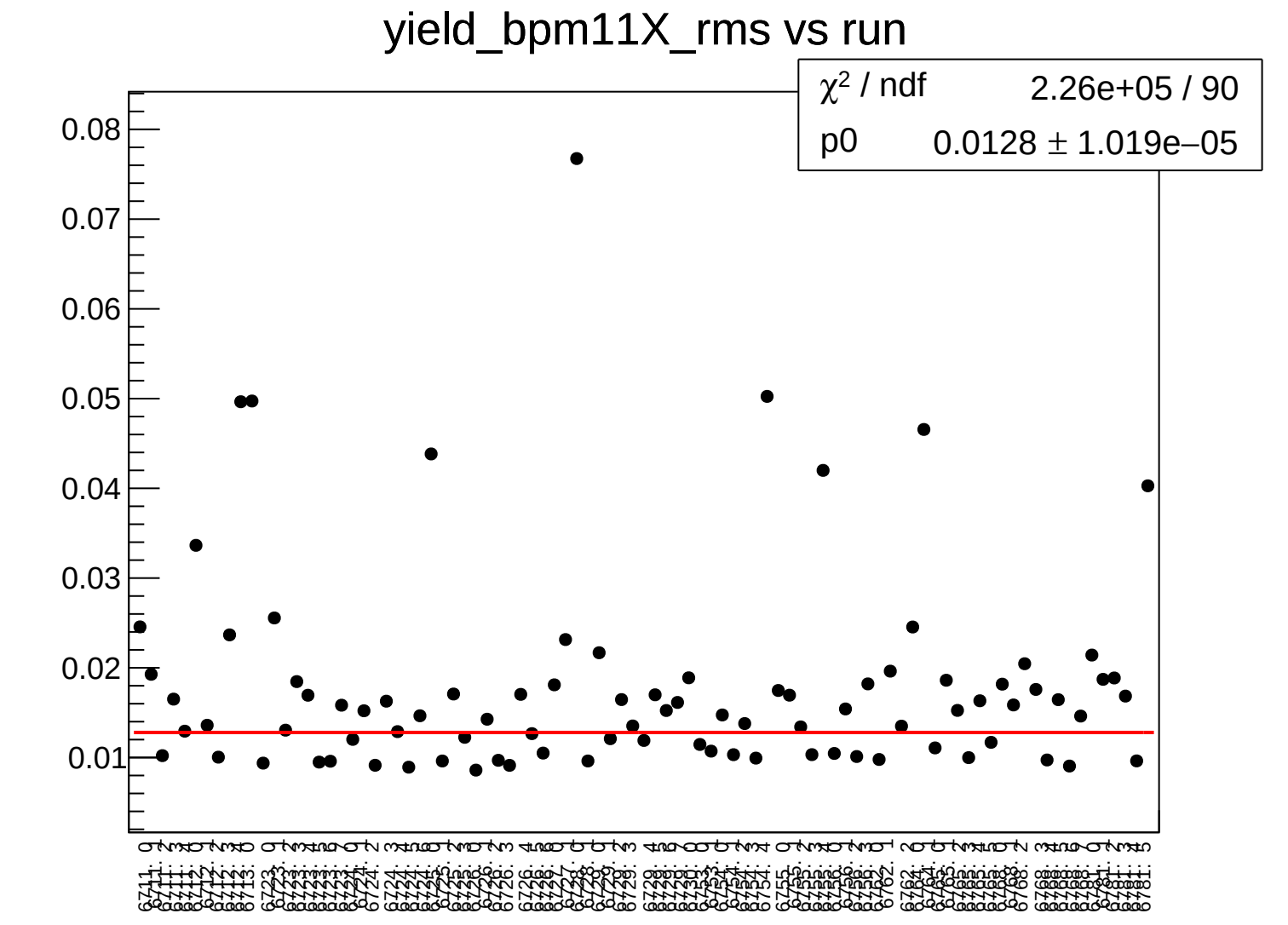

yield_bpm1Y_mean vs run
χ² / ndf 3.681e+10 / 90
p0 5.849 ± 1.512e−05
pull
Entries 91
Mean 122.3
Std Dev 0

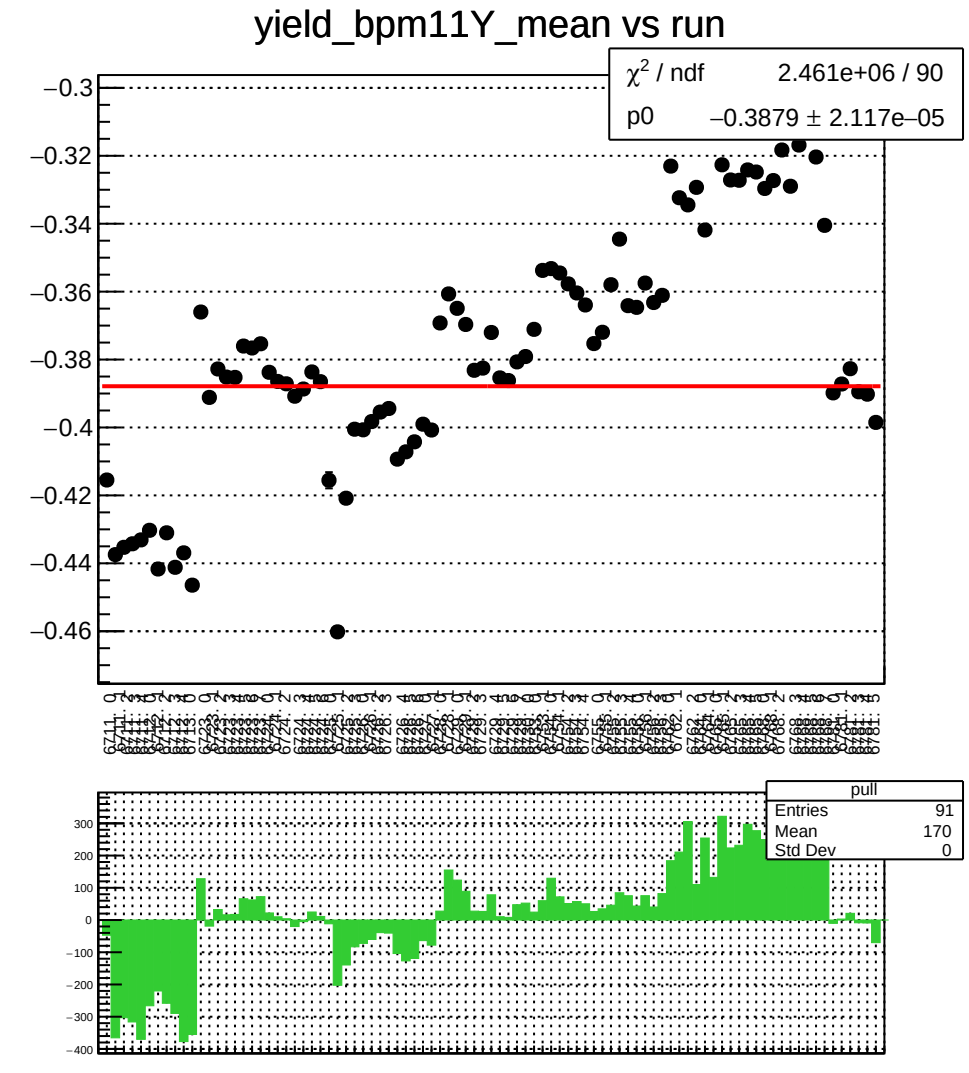

pull1D
Entries 91
Mean 0
Std Dev 0

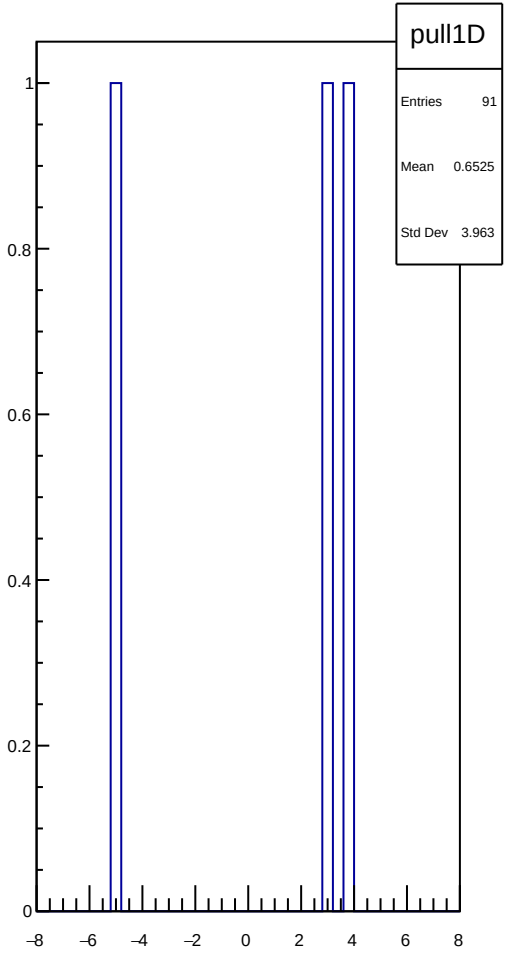

yield_bpm1Y_rms vs run
χ² / ndf 2.925e+05 / 90
p0 0.01314 ± 1.069e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

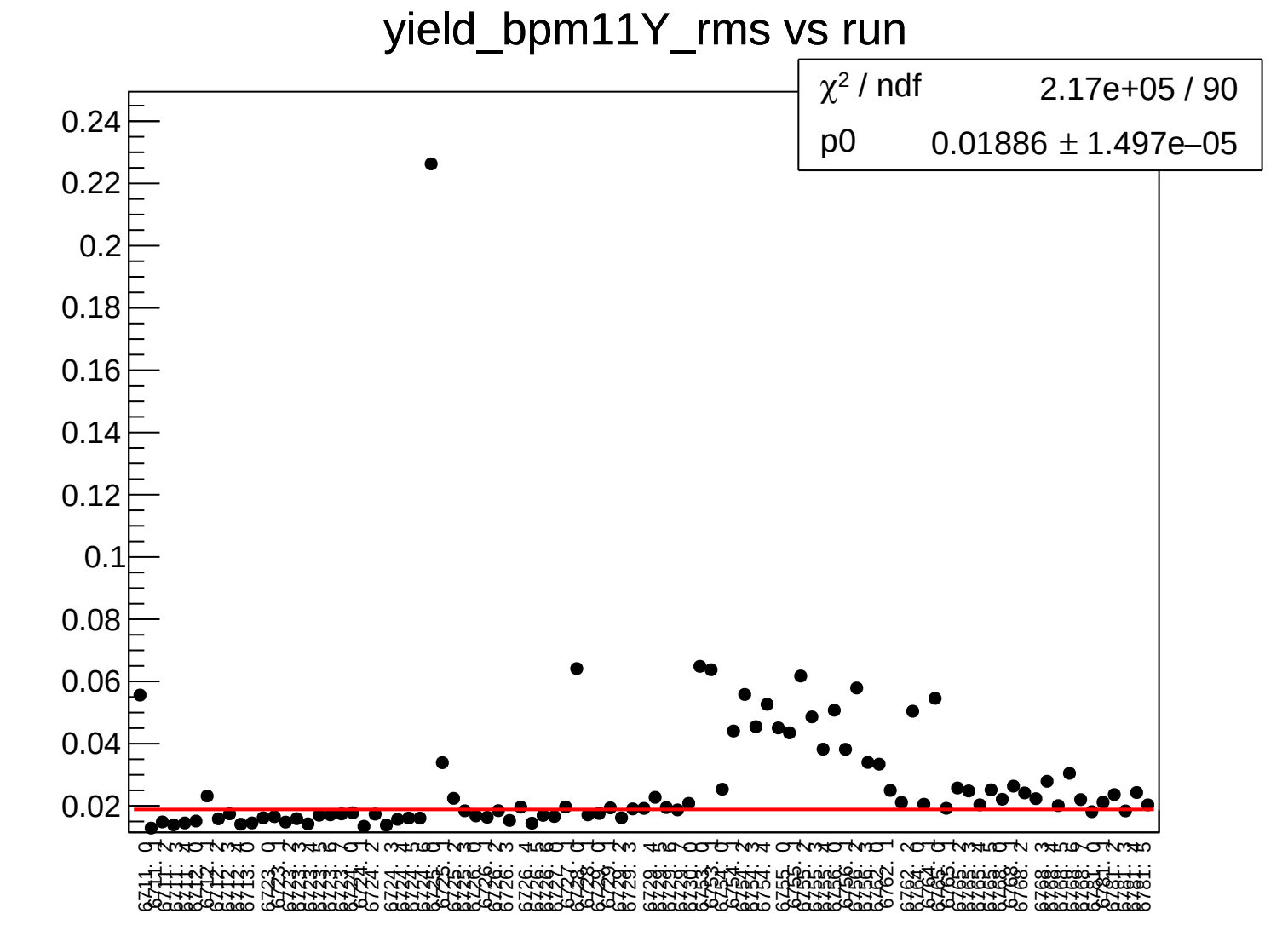

yield_bpm11X_mean vs run
χ² / ndf 2.156e+07 / 90
p0 1.354 ± 1.44e−05
1.44
1.42
1.4
1.38
1.36
1.34
1.32
1.3
1.28
1.26
pull
Entries 91
Mean 902.4
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

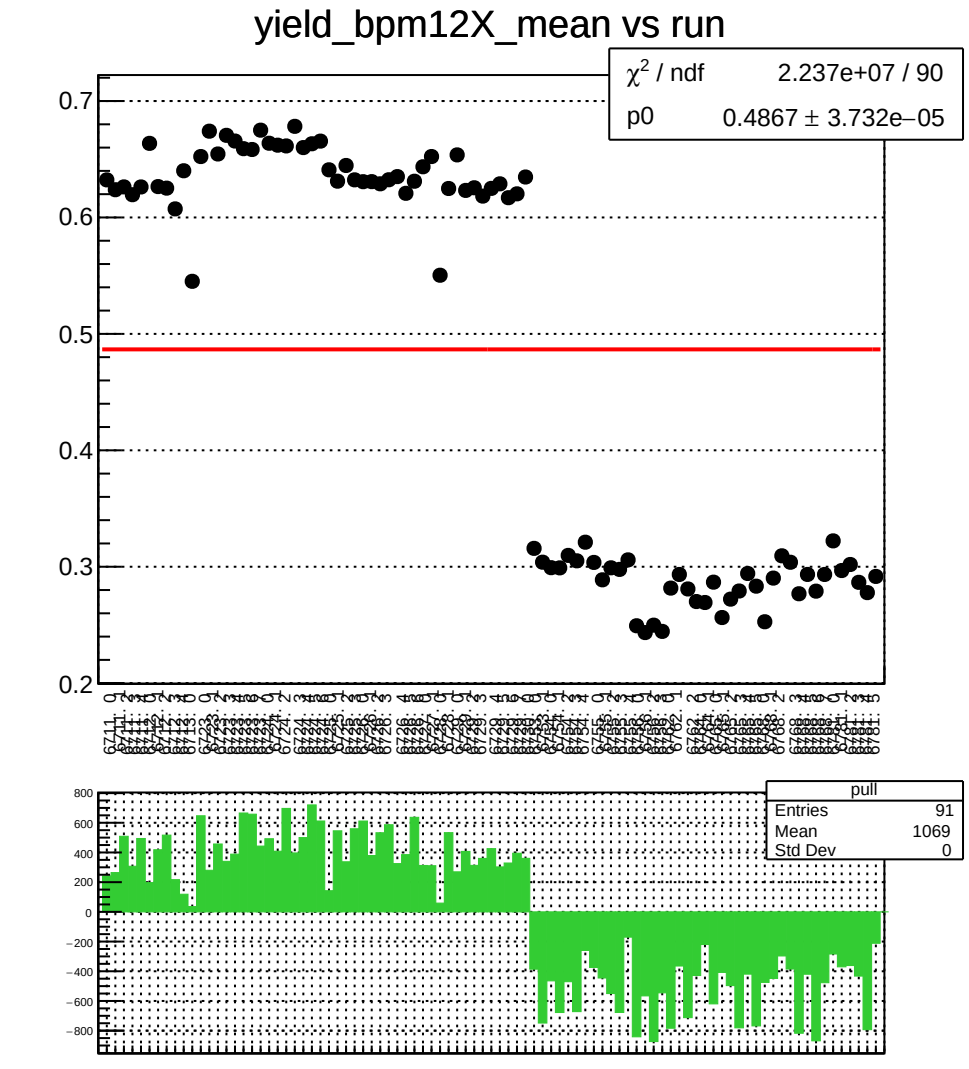

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

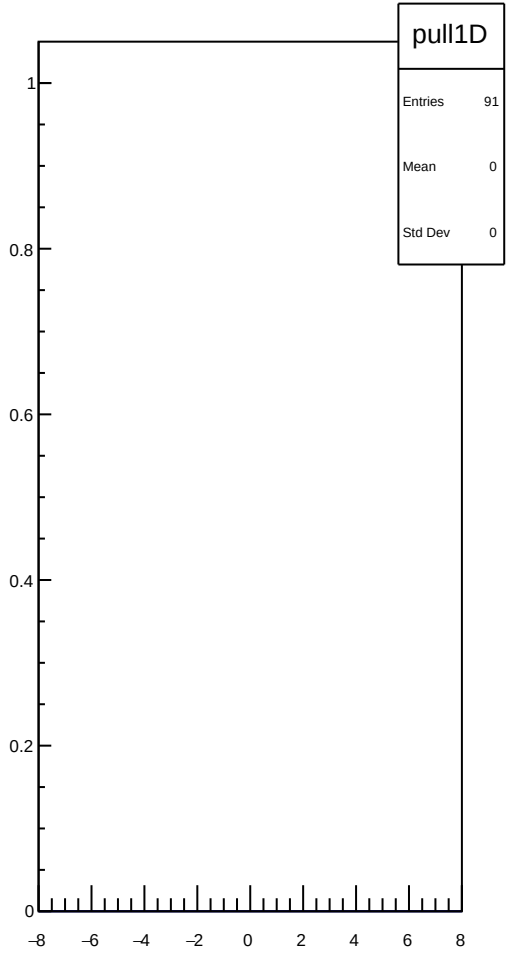

yield_bpm11X_rms vs run
χ² / ndf 2.26e+05 / 90
p0 0.0128 ± 1.019e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

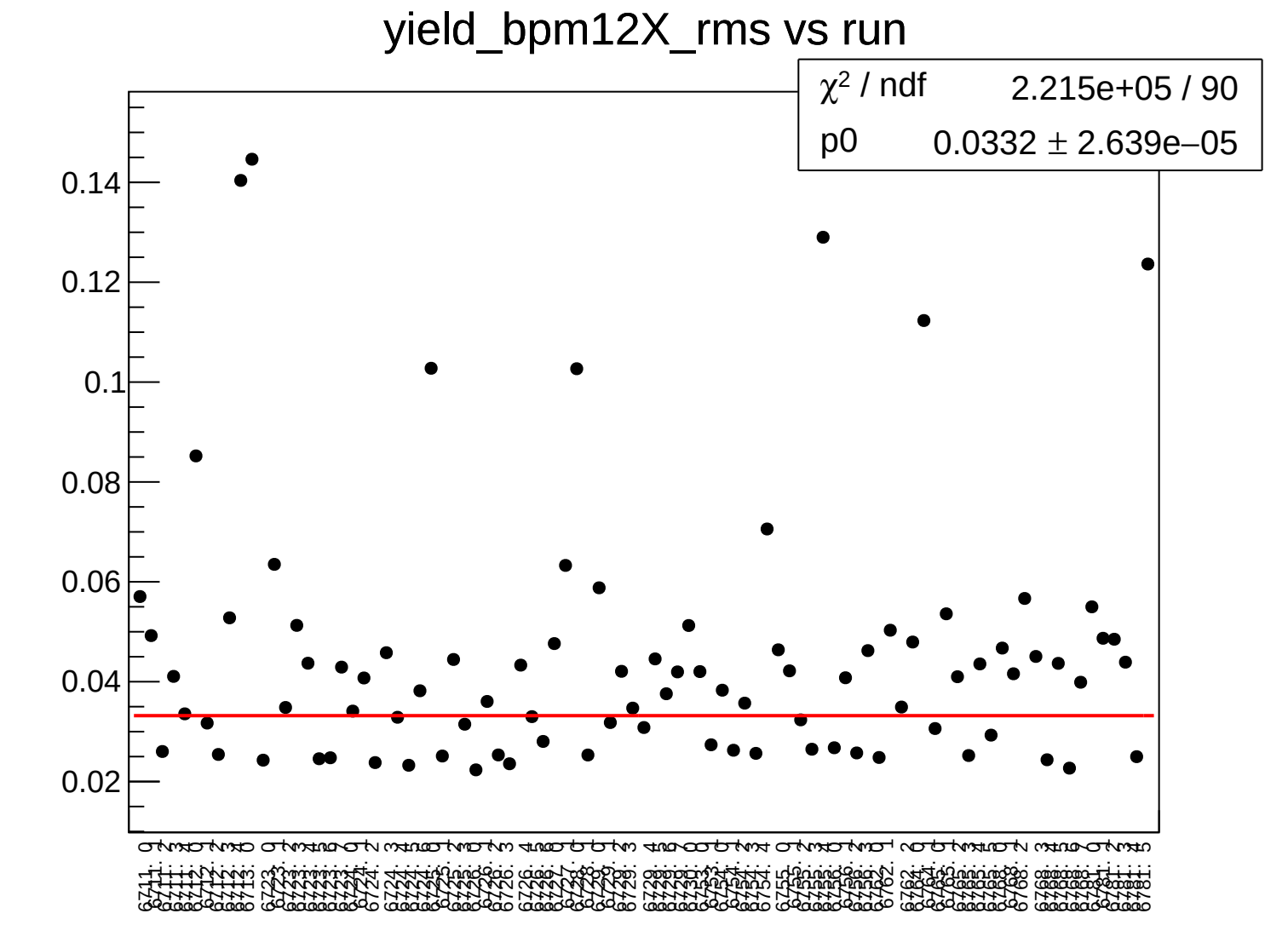

yield_bpm11Y_mean vs run
χ² / ndf 2.461e+06 / 90
p0 −0.3879 ± 2.117e−05
pull
Entries 91
Mean 170
Std Dev 0

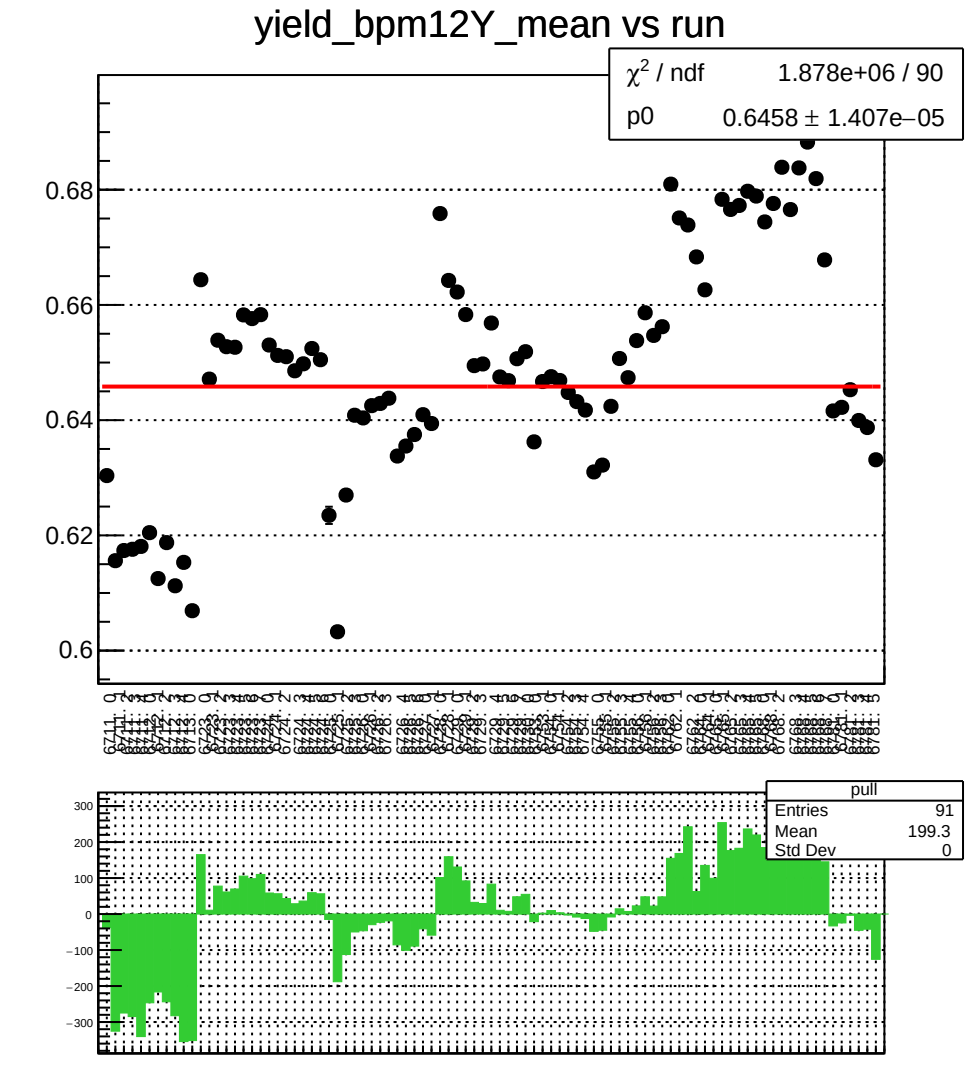

pull1D
Entries 91
Mean 0.6525
Std Dev 3.963

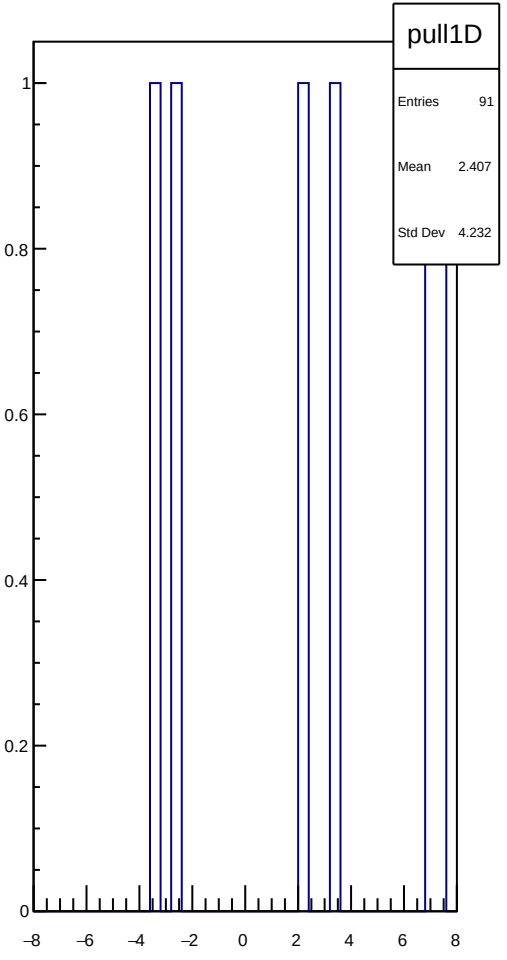

yield_bpm11Y_rms vs run
χ² / ndf 2.17e+05 / 90
p0 0.01886 ± 1.497e–05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

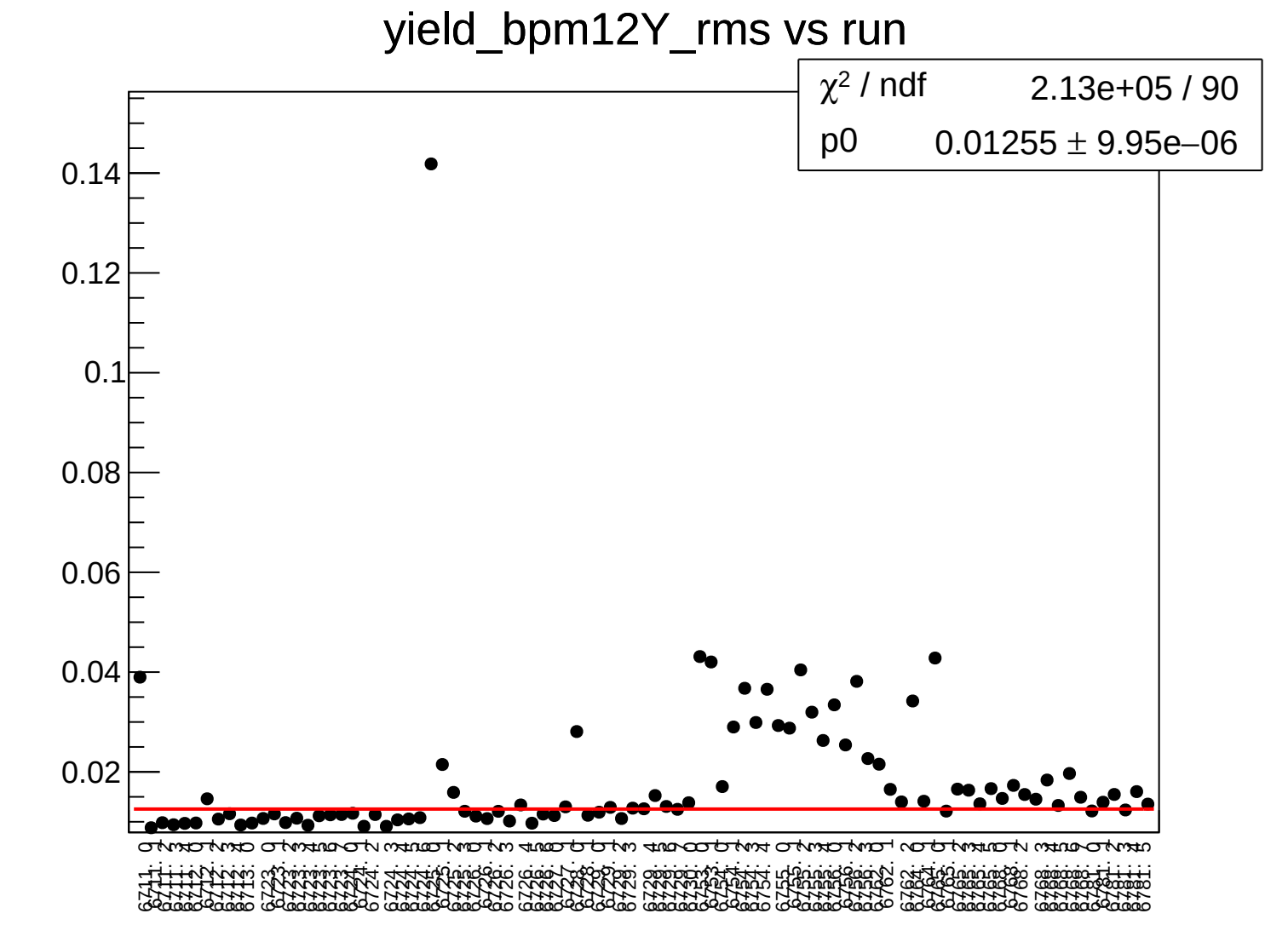

yield_bpm12X_mean vs run
χ² / ndf 2.237e+07 / 90
p0 0.4867 ± 3.732e−05
0.7
0.6
0.5
0.4
0.3
0.2
pull
Entries 91
Mean 1069
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

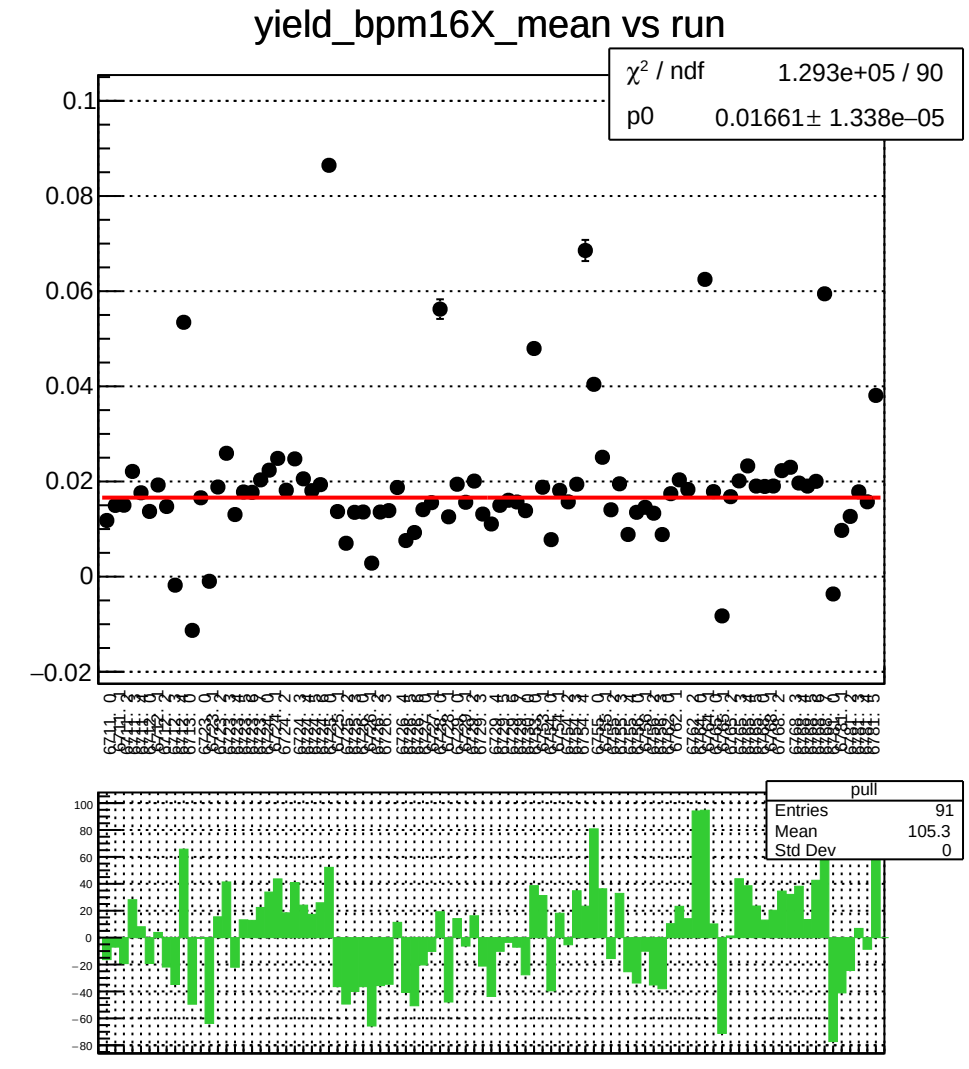

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

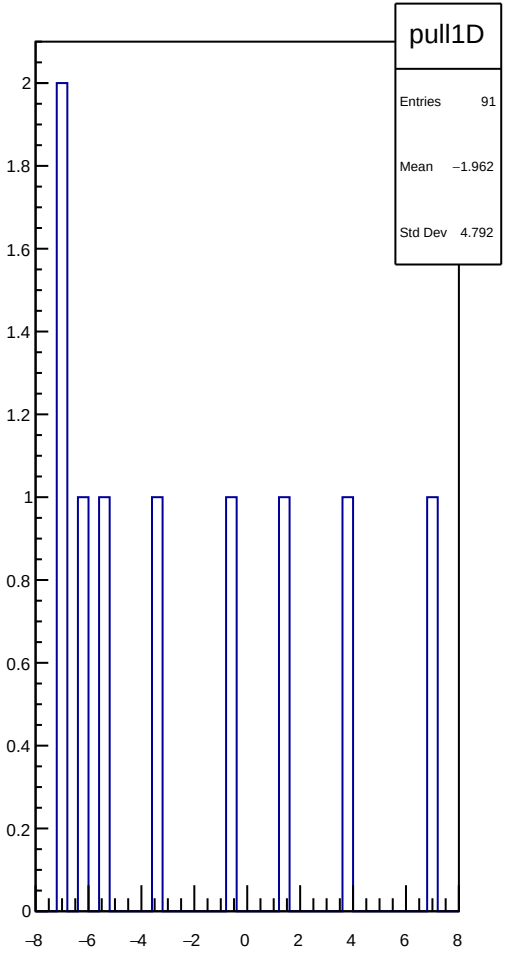

yield_bpm12X_rms vs run
χ² / ndf 2.215e+05 / 90
p0 0.0332 ± 2.639e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

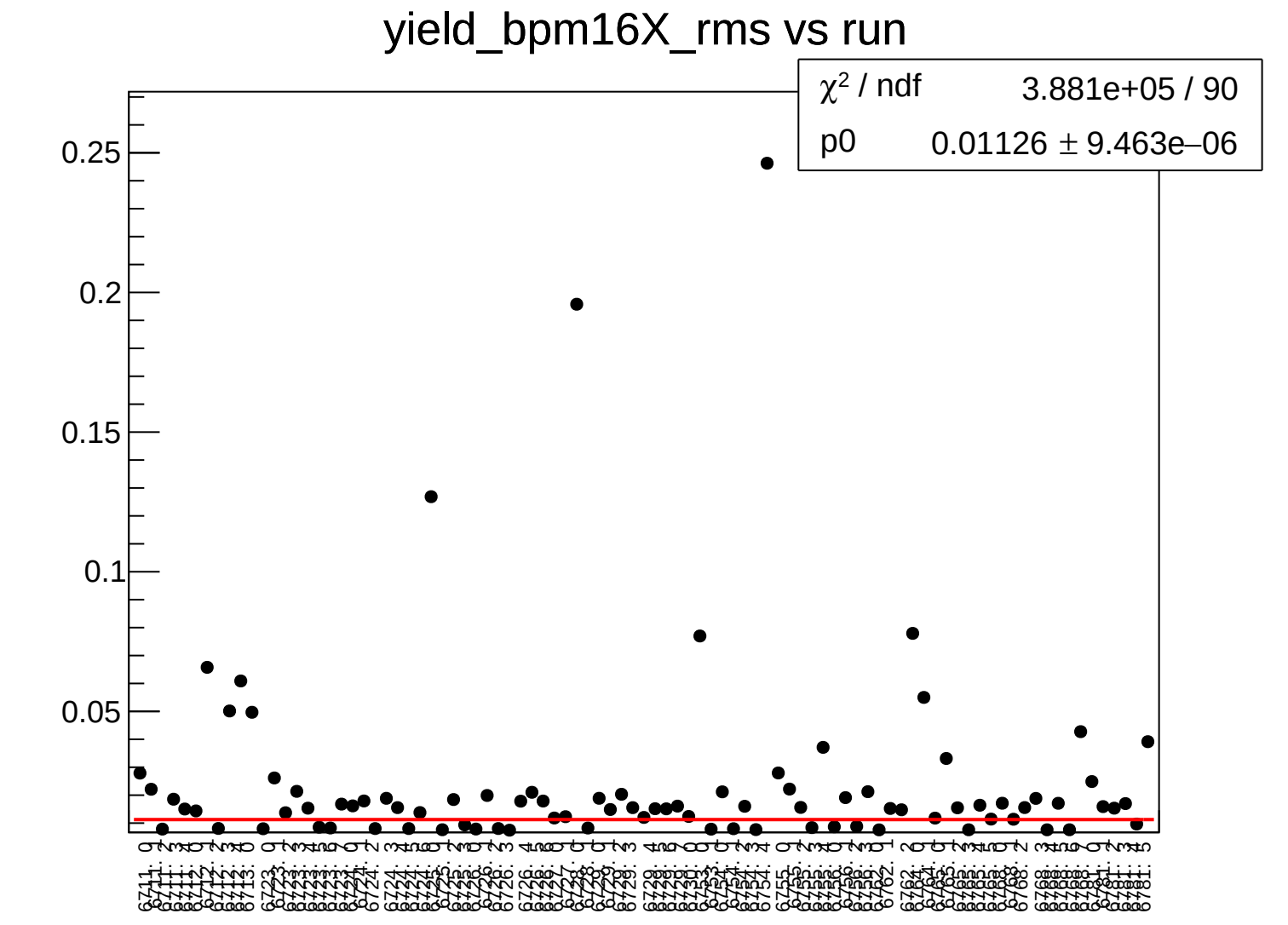

yield_bpm12Y_mean vs run
χ² / ndf 1.878e+06 / 90
p0 0.6458 ± 1.407e−05
0.68
0.66
0.64
0.62
0.6
pull
Entries 91
Mean 199.3
Std Dev 0
300
200
100
0
−100
−200
−300

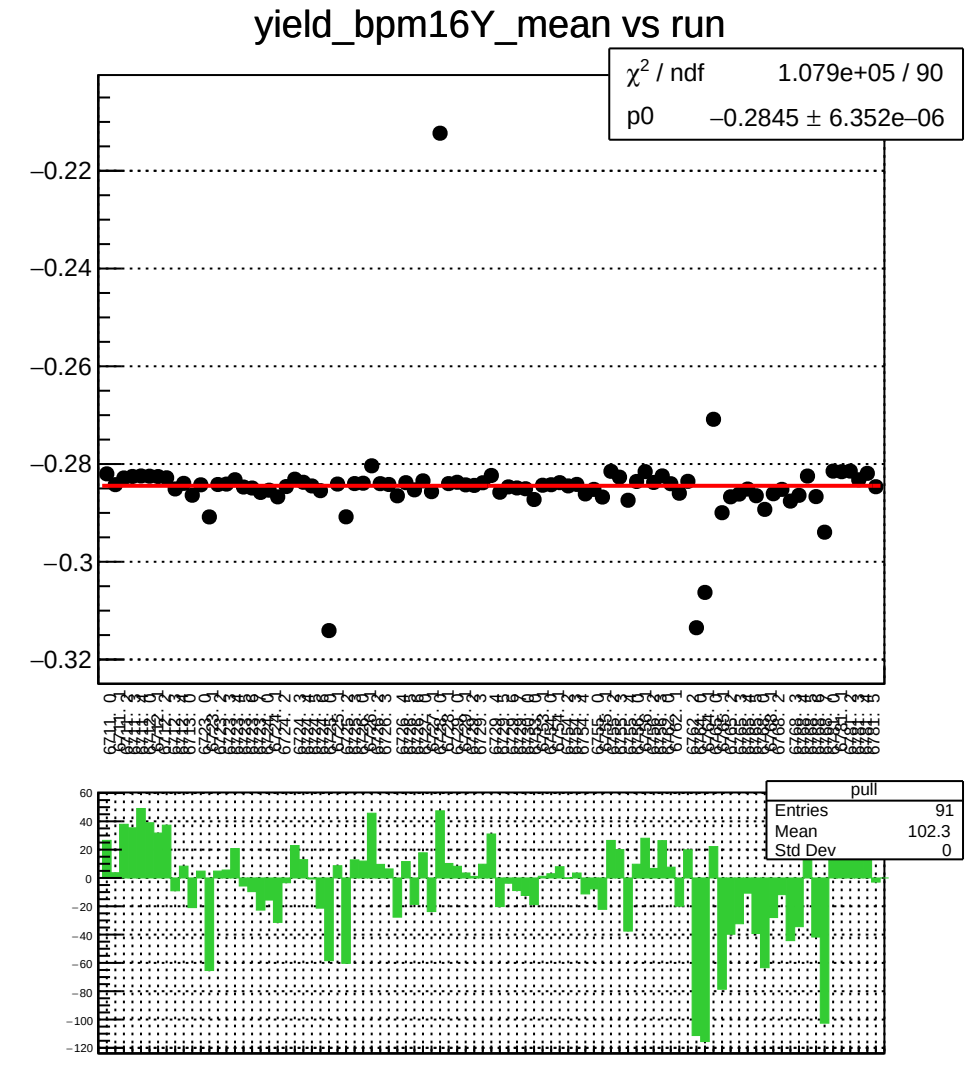

pull1D
Entries 91
Mean 2.407
Std Dev 4.232
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

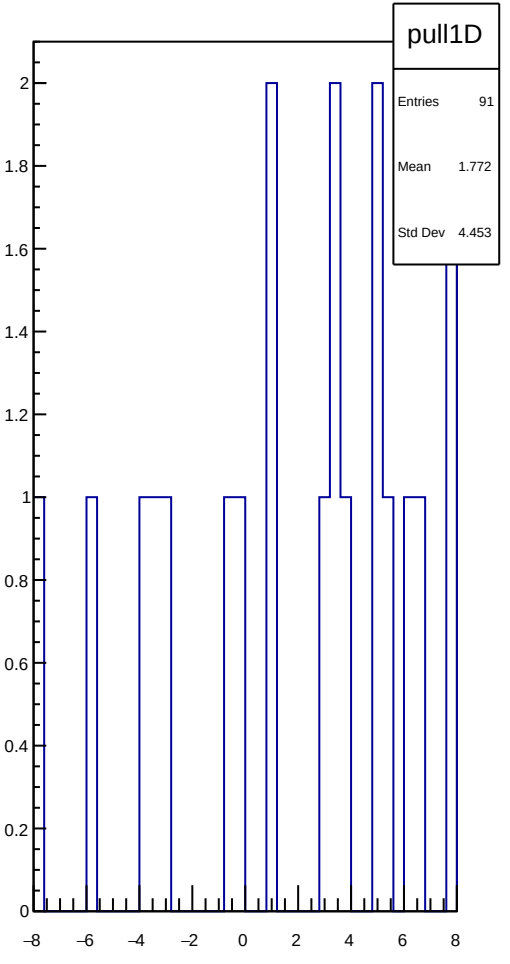

yield_bpm12Y_rms vs run
χ² / ndf 2.13e+05 / 90
p0 0.01255 ± 9.95e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

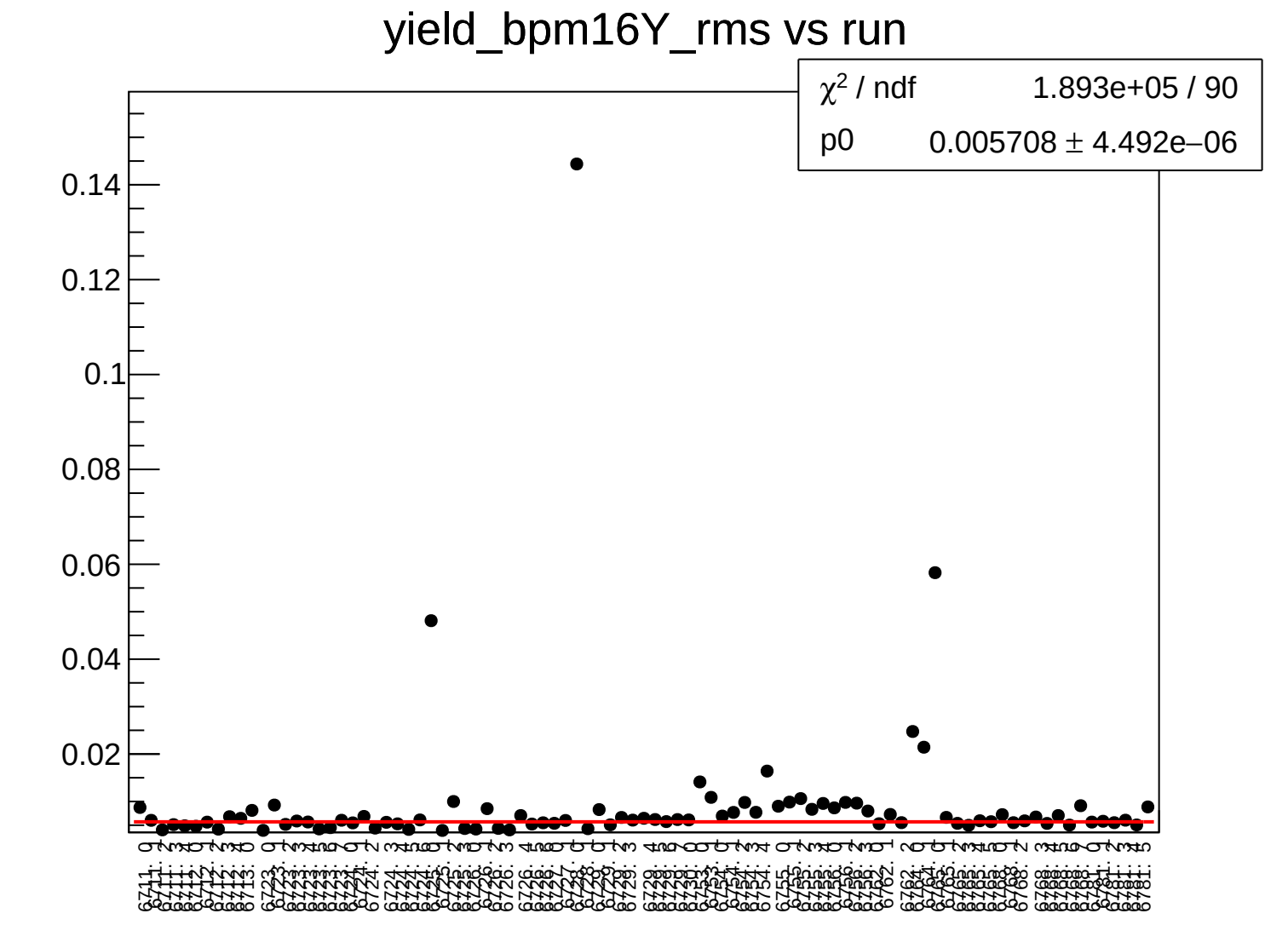

yield_bpm16X_mean vs run
χ² / ndf 1.293e+05 / 90
p0 0.01661± 1.338e−05
0.1
0.08
0.06
0.04
0.02
0
−0.02
pull
Entries 91
Mean 105.3
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

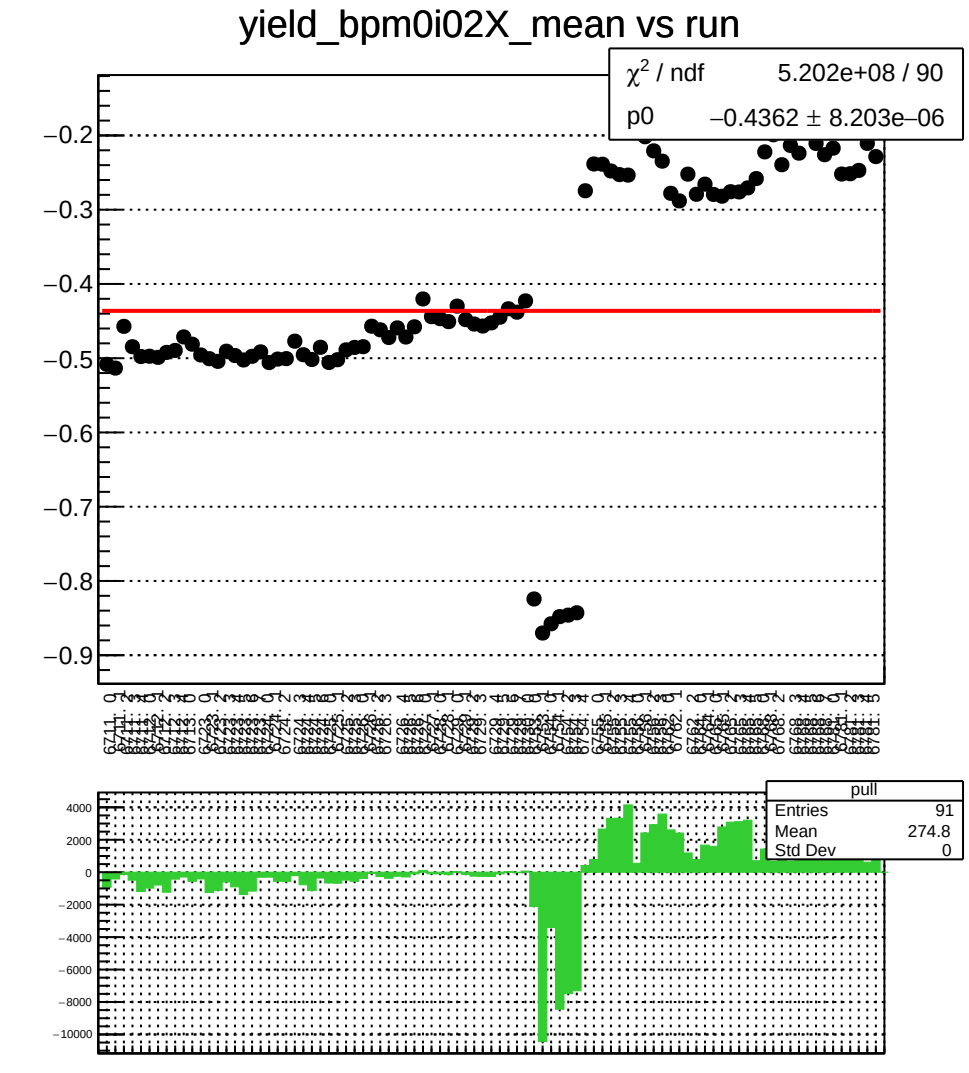

pull1D
Entries 91
Mean −1.962
Std Dev 4.792
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

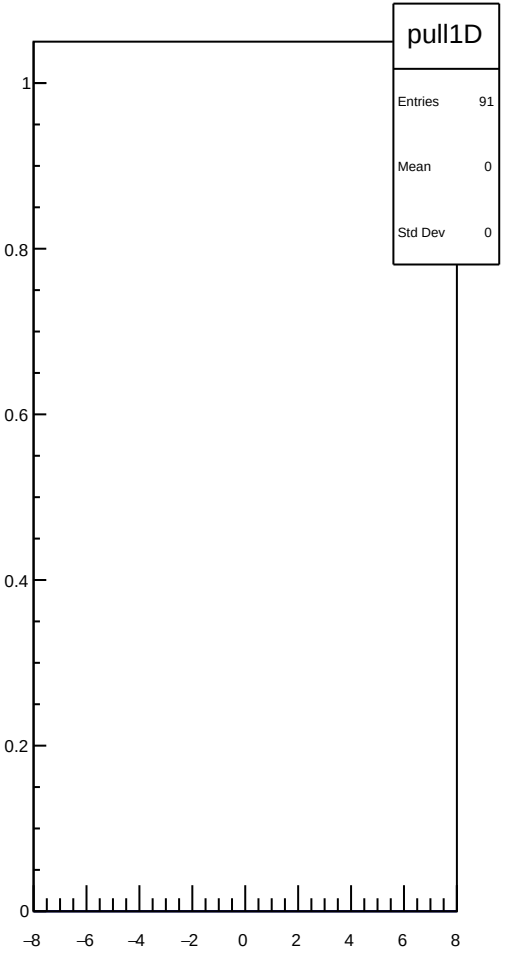

yield_bpm16X_rms vs run
χ² / ndf 3.881e+05 / 90
p0 0.01126 ± 9.463e–06
0.25
0.2
0.15
0.1
0.05

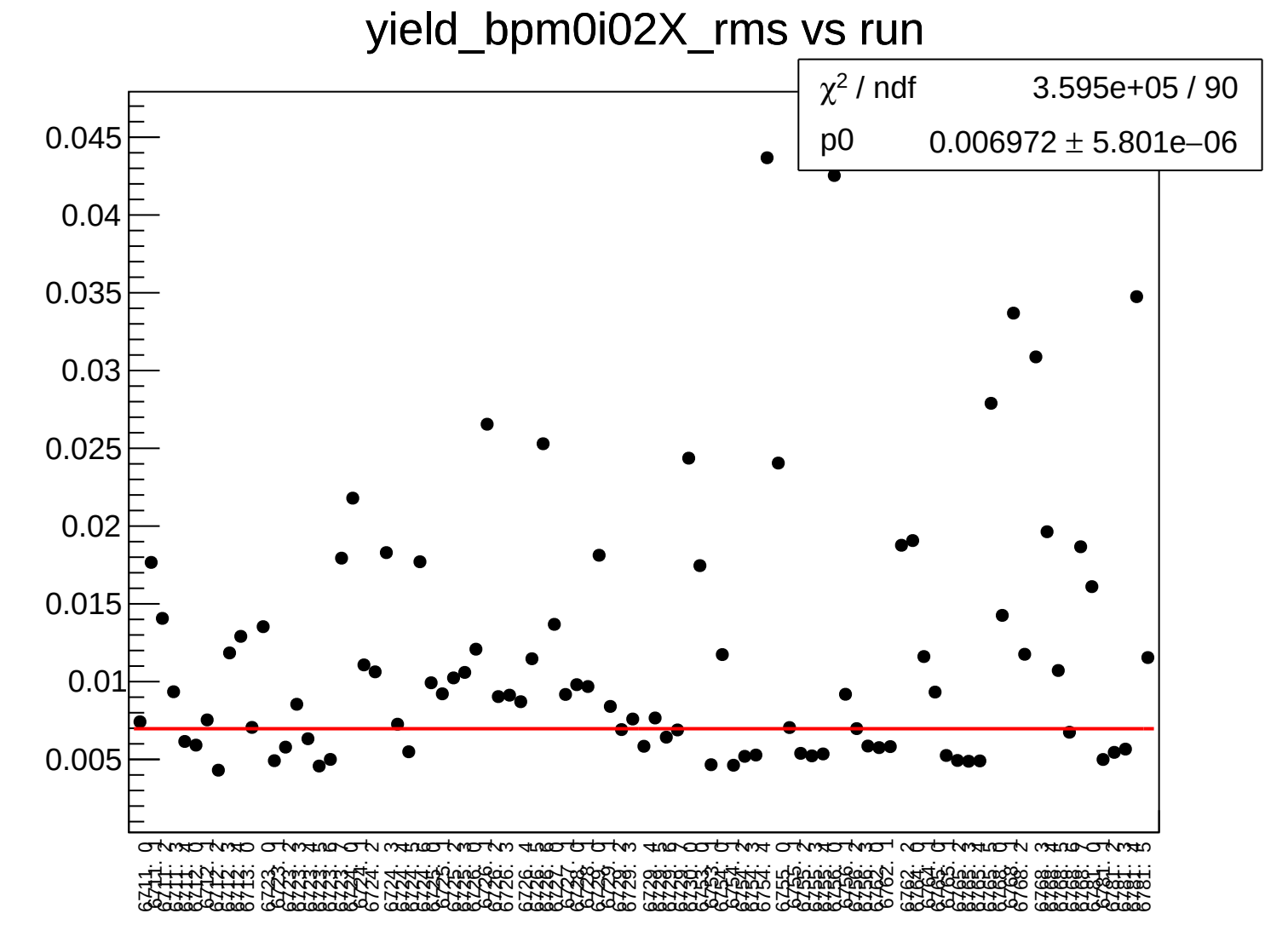

yield_bpm16Y_mean vs run
χ² / ndf 1.079e+05 / 90
p0 −0.2845 ± 6.352e−06
−0.22
−0.24
−0.26
−0.28
−0.3
−0.32
pull
Entries 91
Mean 102.3
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100
−120

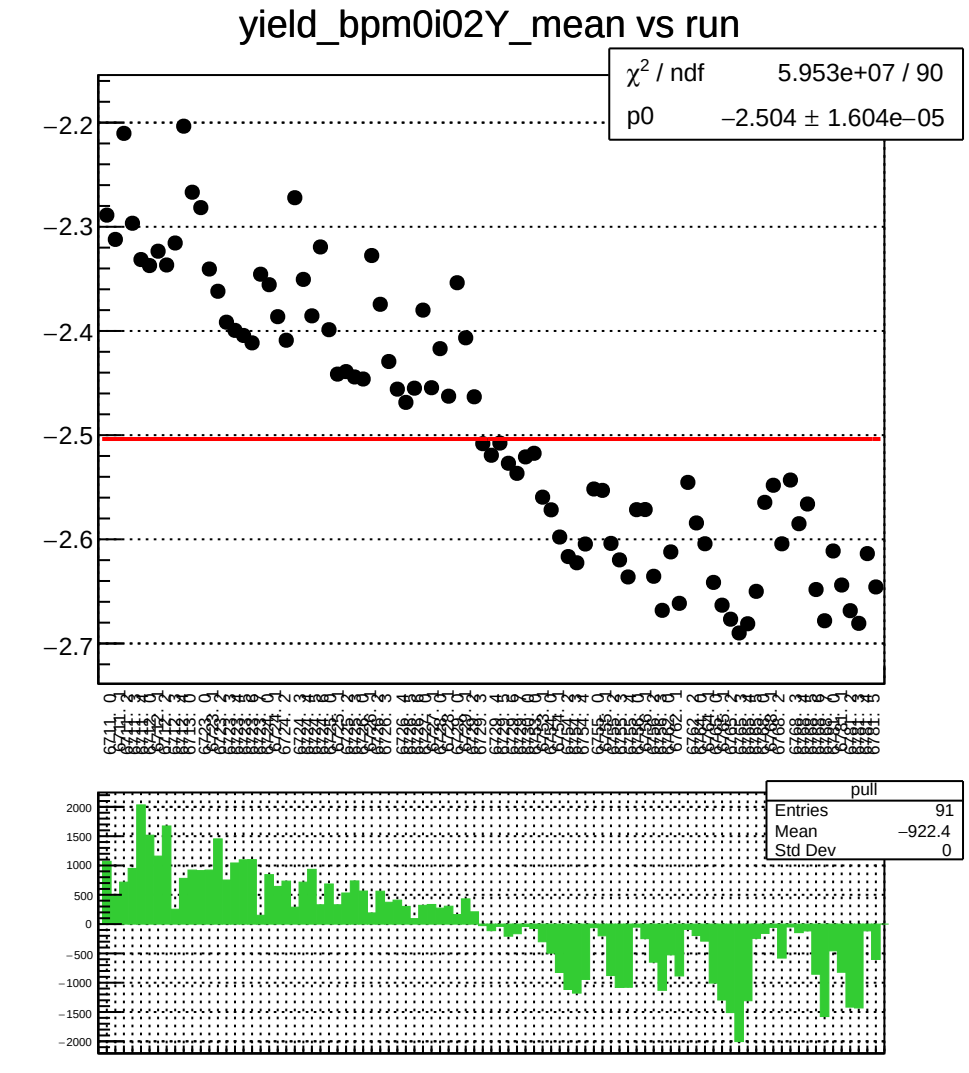

pull1D
Entries 91
Mean 1.772
Std Dev 4.453
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

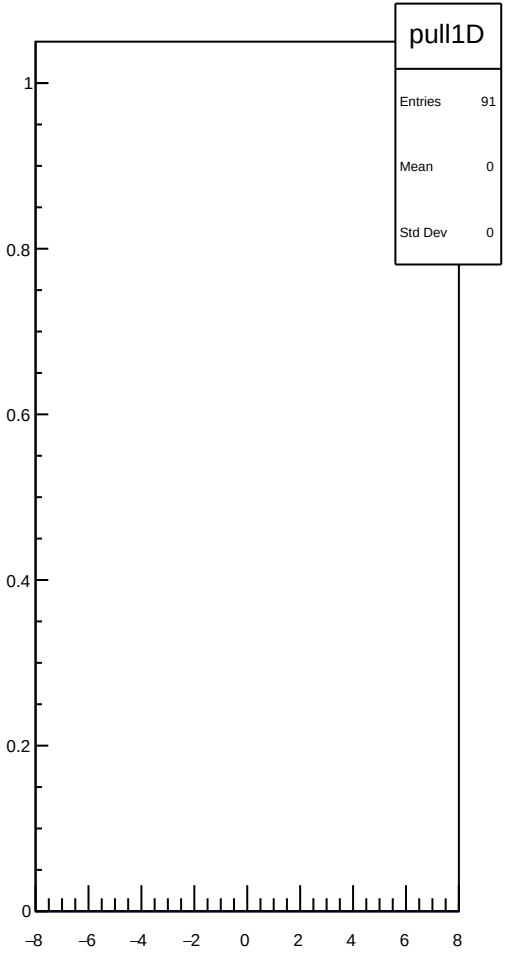

yield_bpm16Y_rms vs run
χ^2 / ndf 1.893e+05 / 90
p0 0.005708 ± 4.492e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

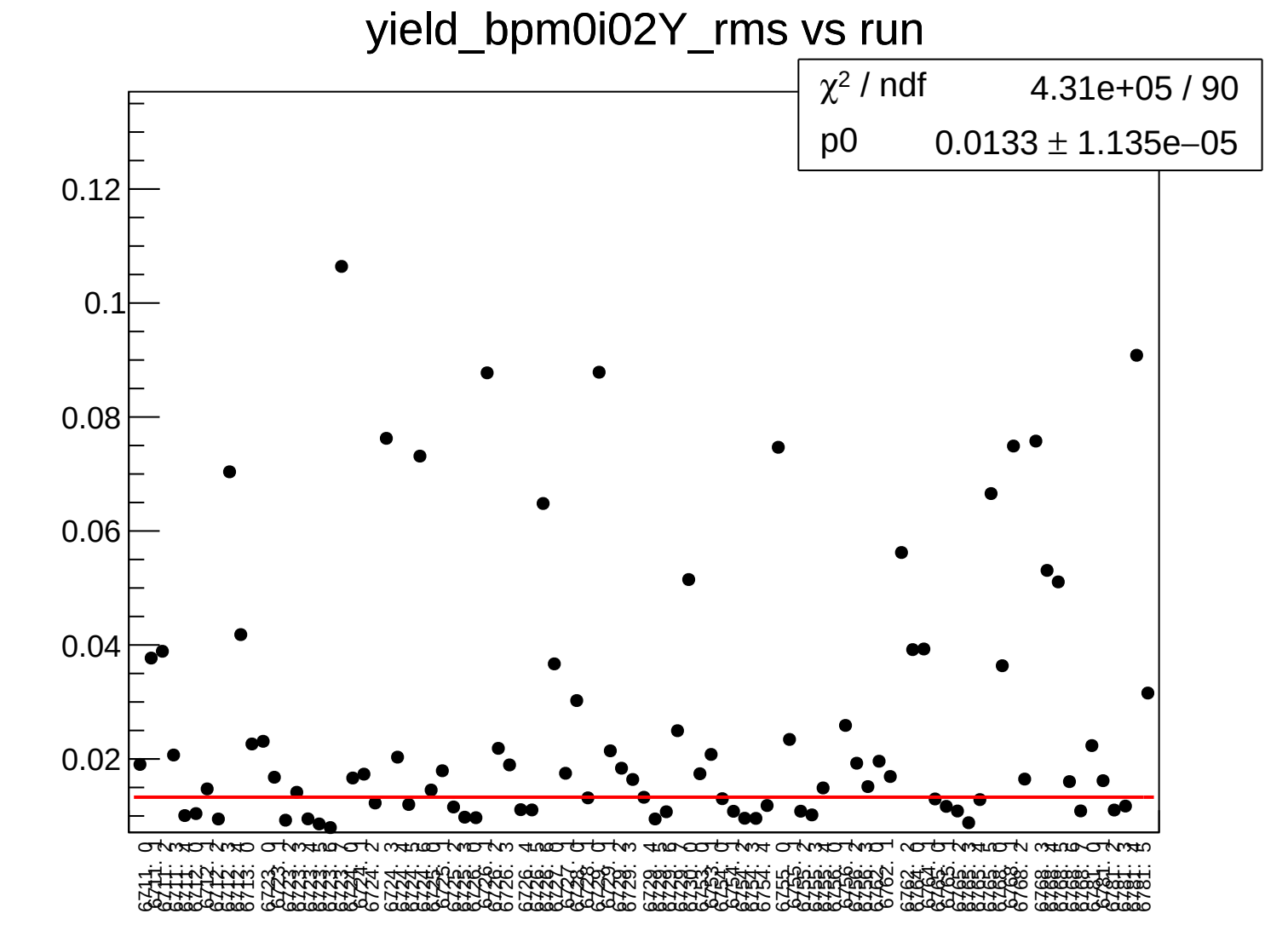

yield_bpm0i02X_mean vs run
χ² / ndf 5.202e+08 / 90
p0 −0.4362 ± 8.203e−06
pull
Entries 91
Mean 274.8
Std Dev 0

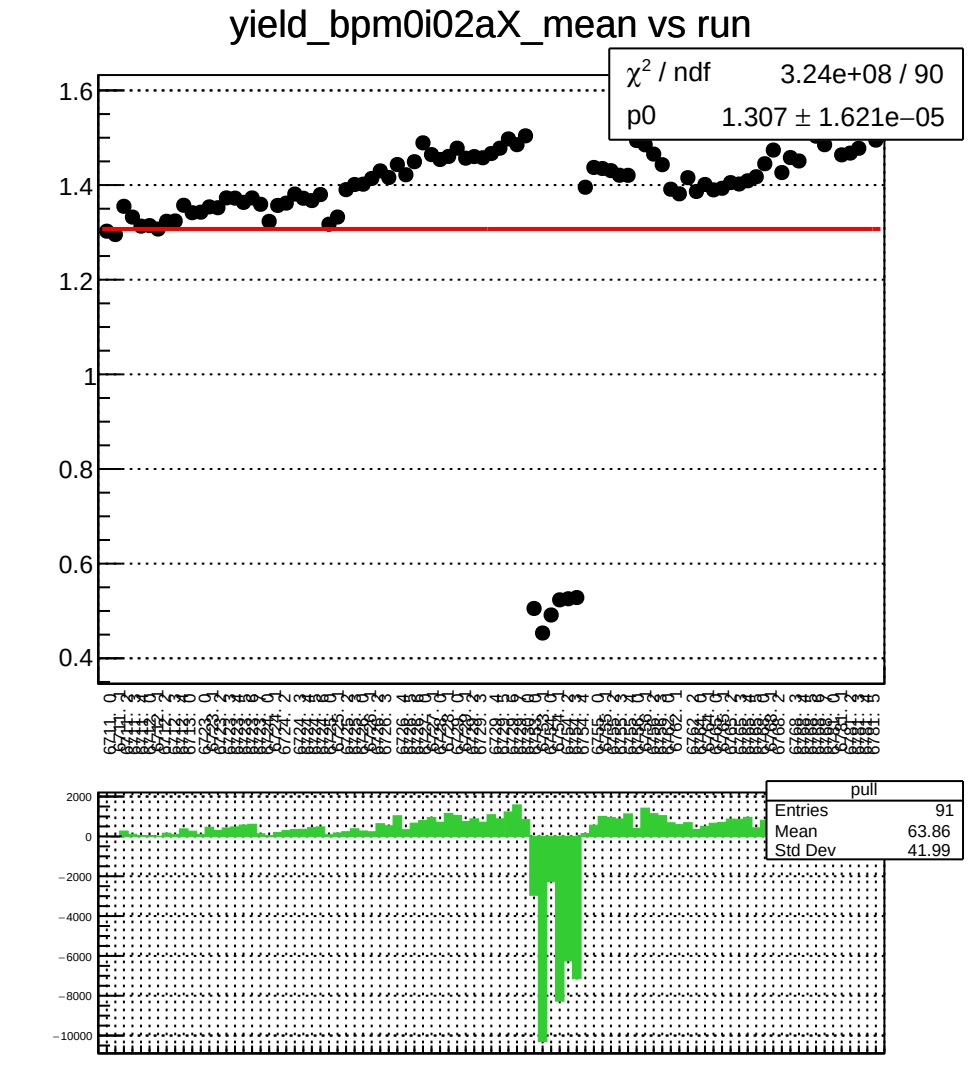

pull1D
Entries 91
Mean 0
Std Dev 0

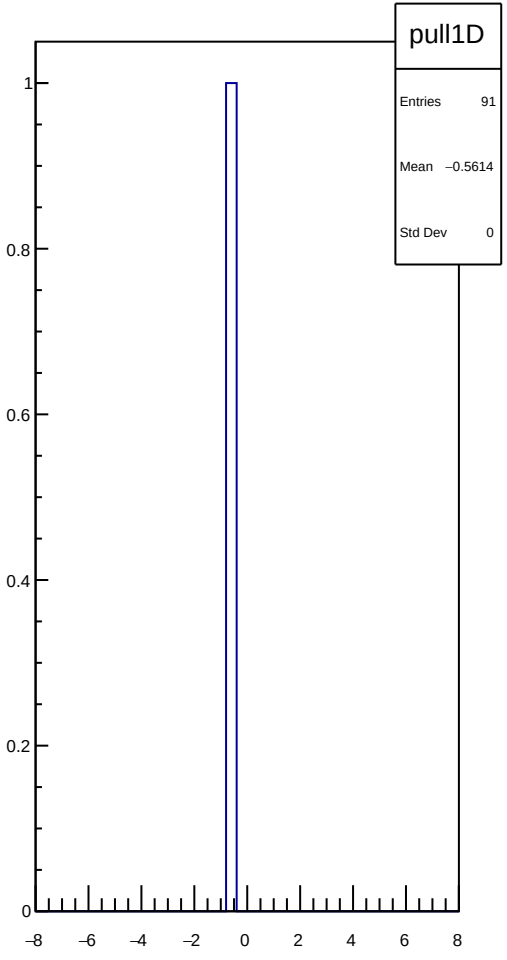

yield_bpm0i02X_rms vs run
χ^2 / ndf 3.595e+05 / 90
p0 0.006972 ± 5.801e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

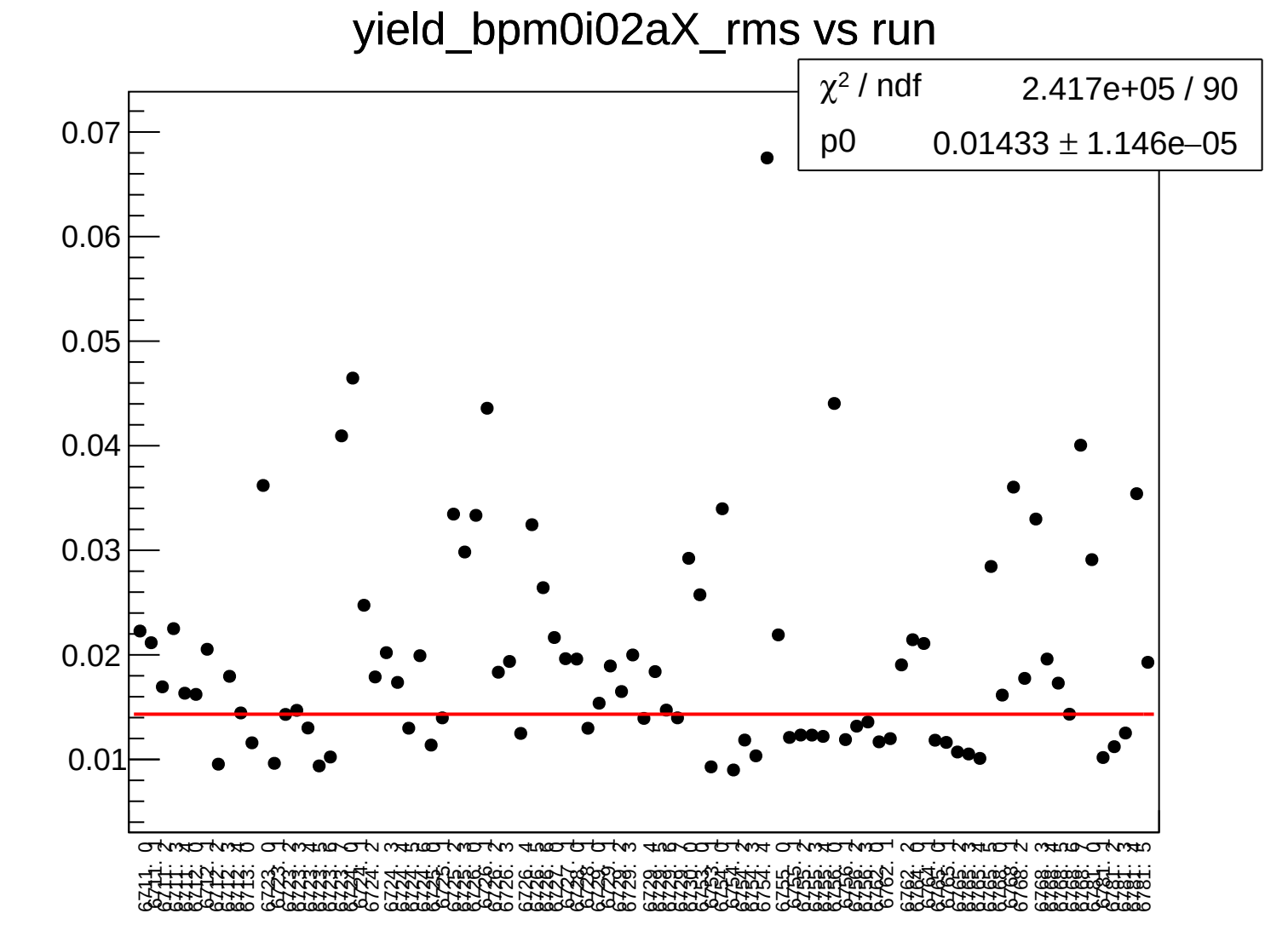

yield_bpm0i02Y_mean vs run
χ² / ndf 5.953e+07 / 90
p0 −2.504 ± 1.604e−05
−2.2
−2.3
−2.4
−2.5
−2.6
−2.7
pull
Entries 91
Mean −922.4
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500
−2000

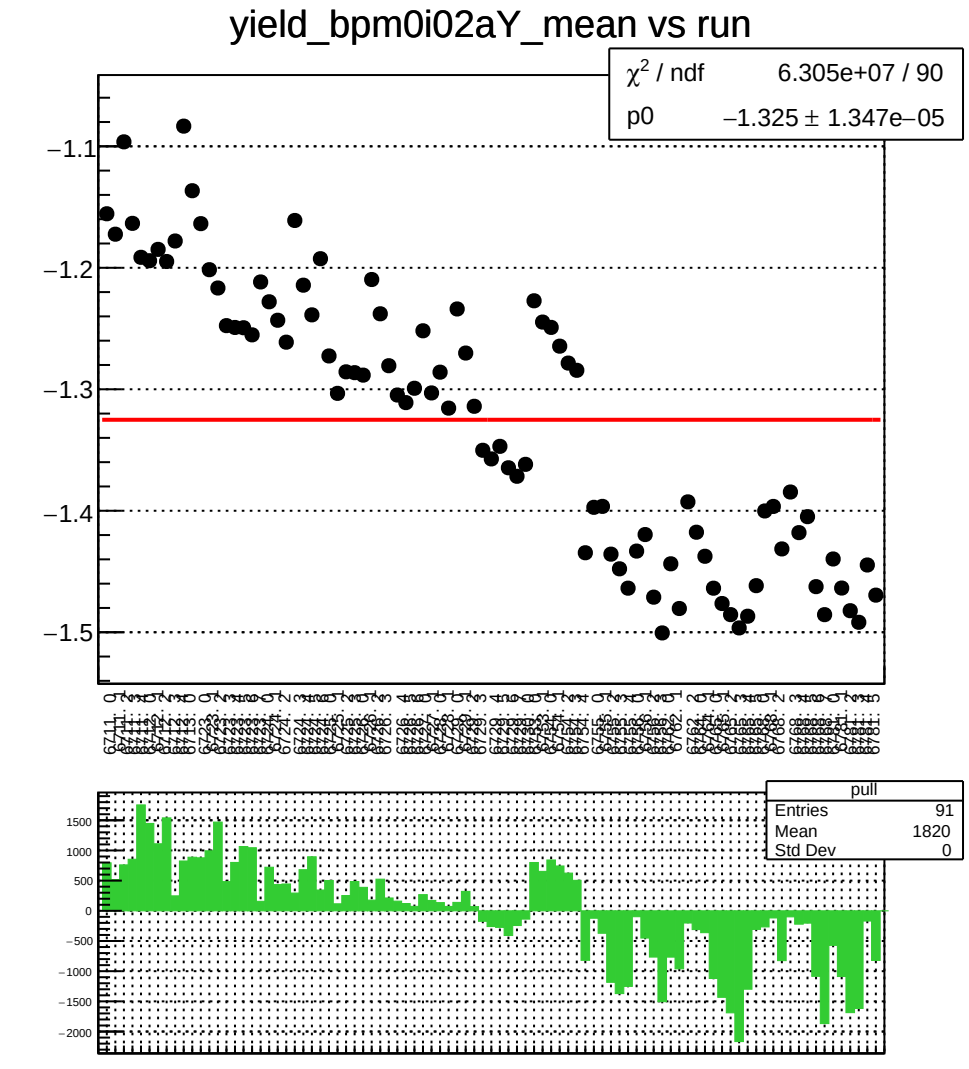

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

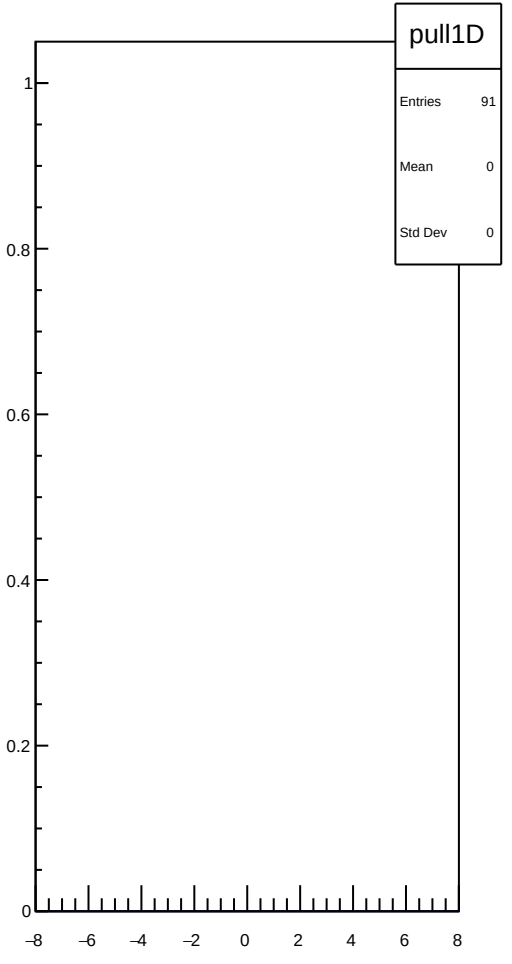

yield_bpm0i02Y_rms vs run
χ² / ndf 4.31e+05 / 90
p0 0.0133 ± 1.135e−05
0.12
0.1
0.08
0.06
0.04
0.02

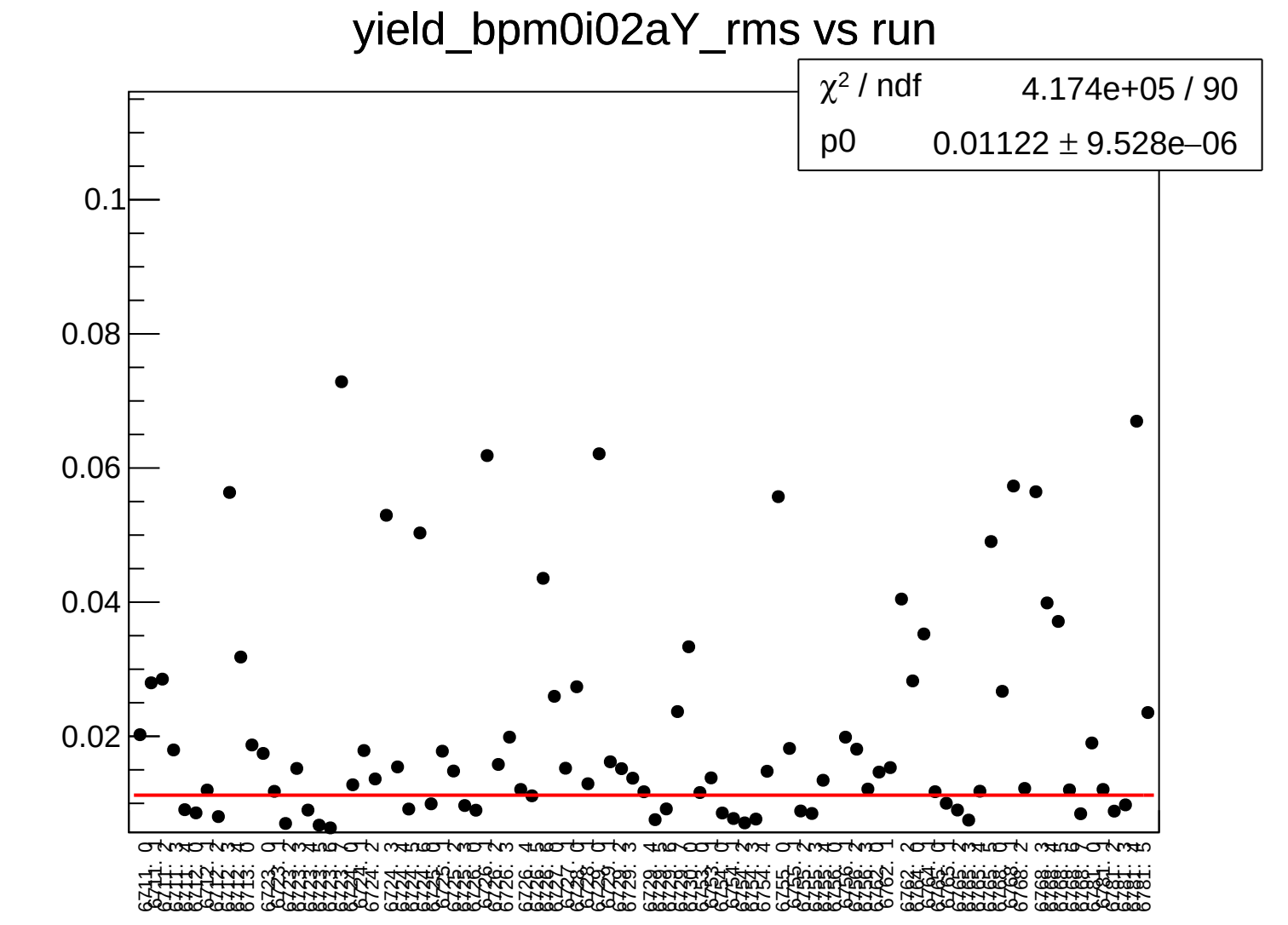

yield_bpm0i02aX_mean vs run
χ² / ndf 3.24e+08 / 90
p0 1.307 ± 1.621e−05
pull
Entries 91
Mean 63.86
Std Dev 41.99

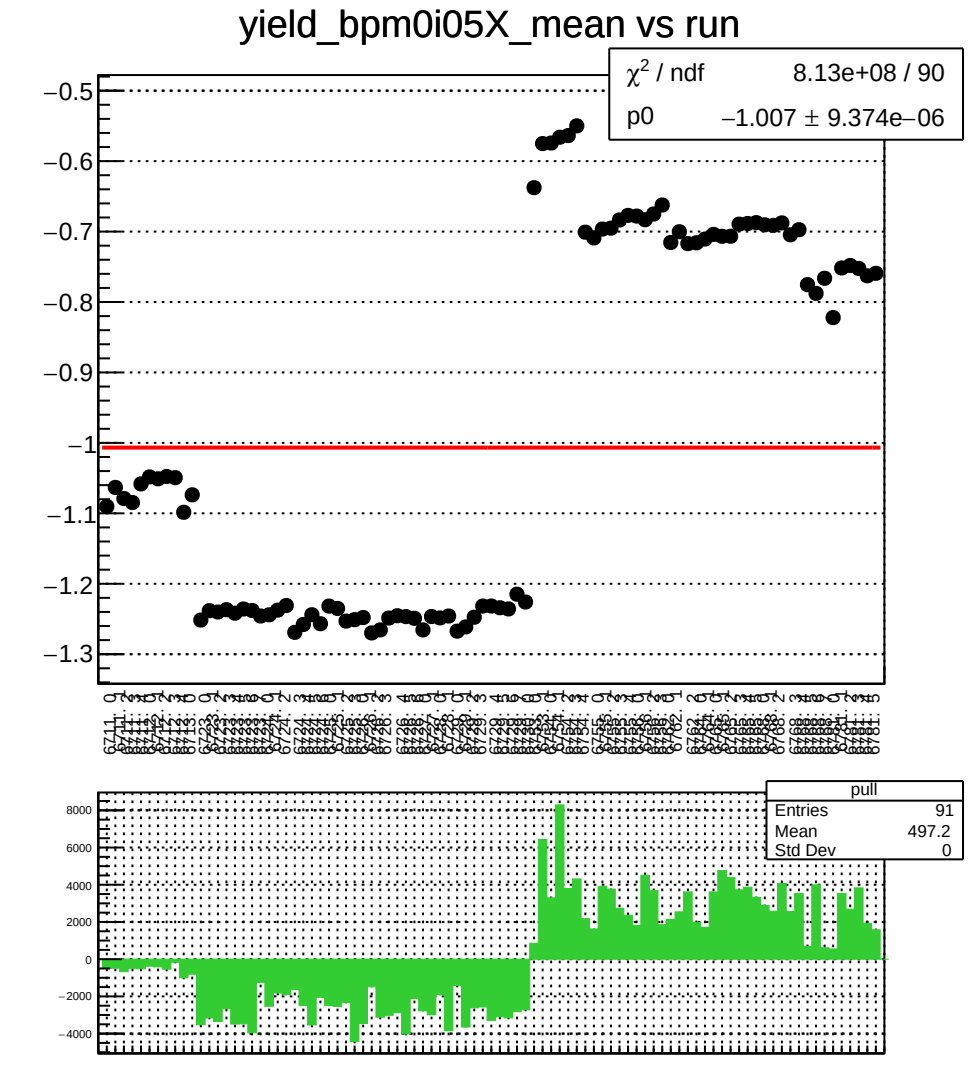

pull1D
Entries 91
Mean −0.5614
Std Dev 0

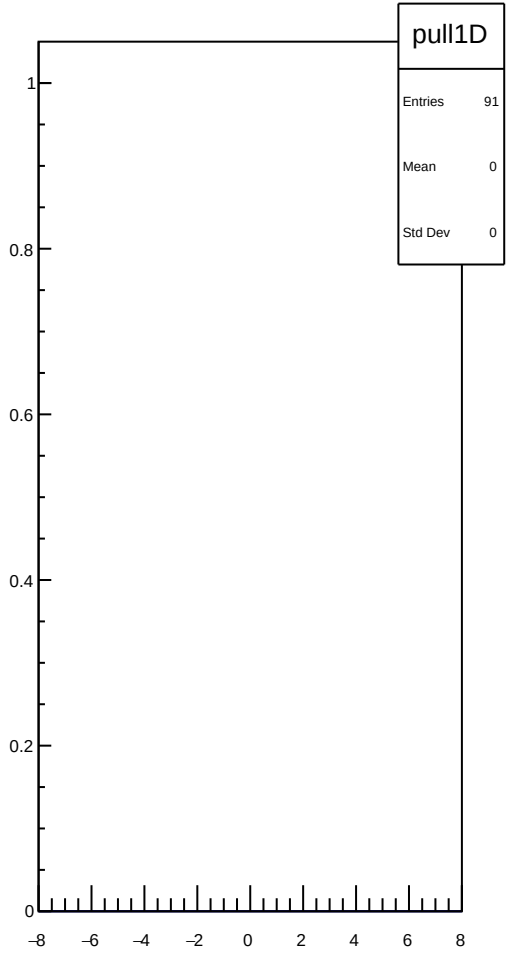

yield_bpm0i02aX_rms vs run
χ² / ndf 2.417e+05 / 90
p0 0.01433 ± 1.146e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

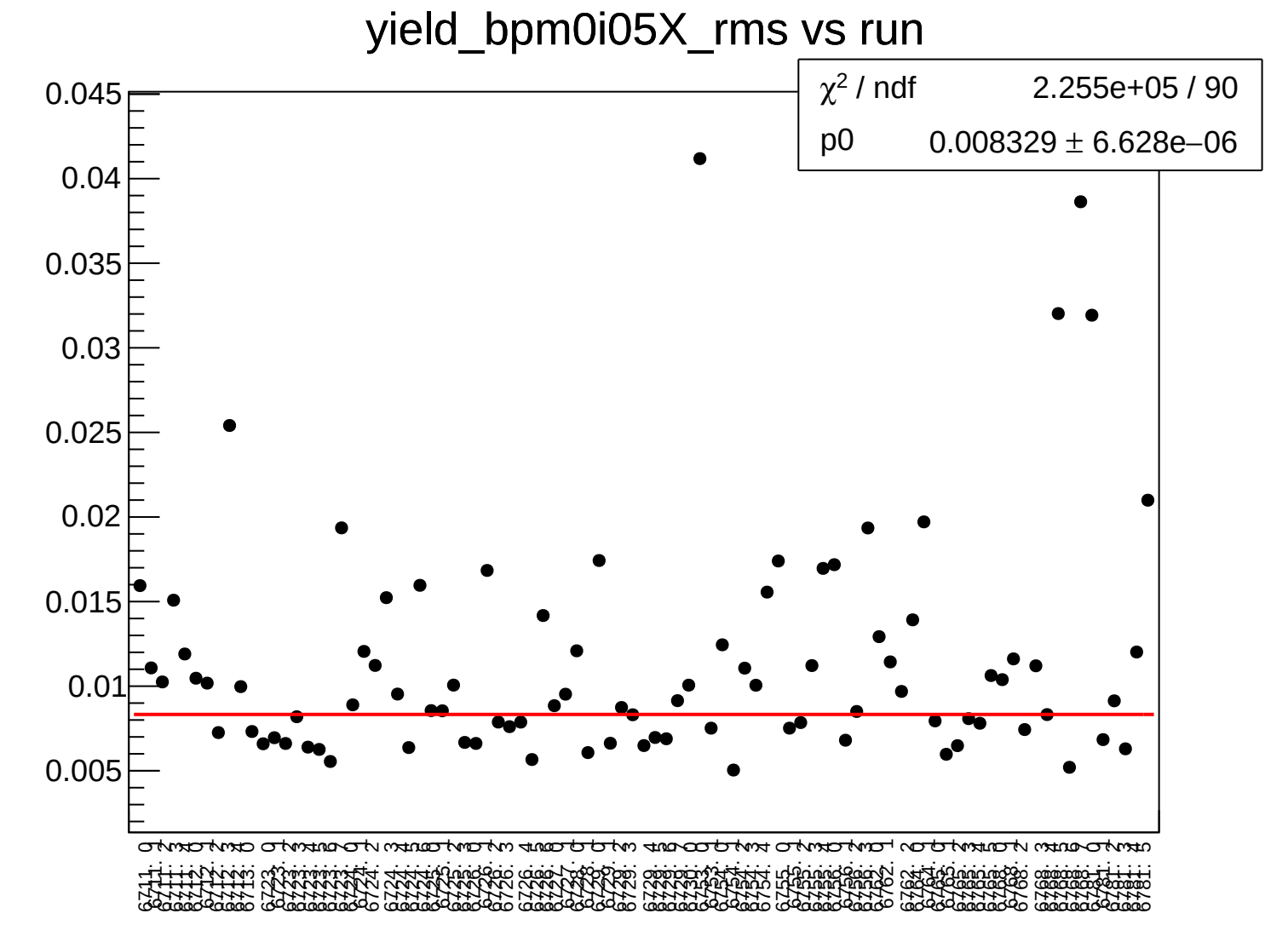

yield_bpm0i02aY_mean vs run
χ² / ndf 6.305e+07 / 90
p0 −1.325 ± 1.347e−05
−1.1
−1.2
−1.3
−1.4
−1.5
pull
Entries 91
Mean 1820
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000

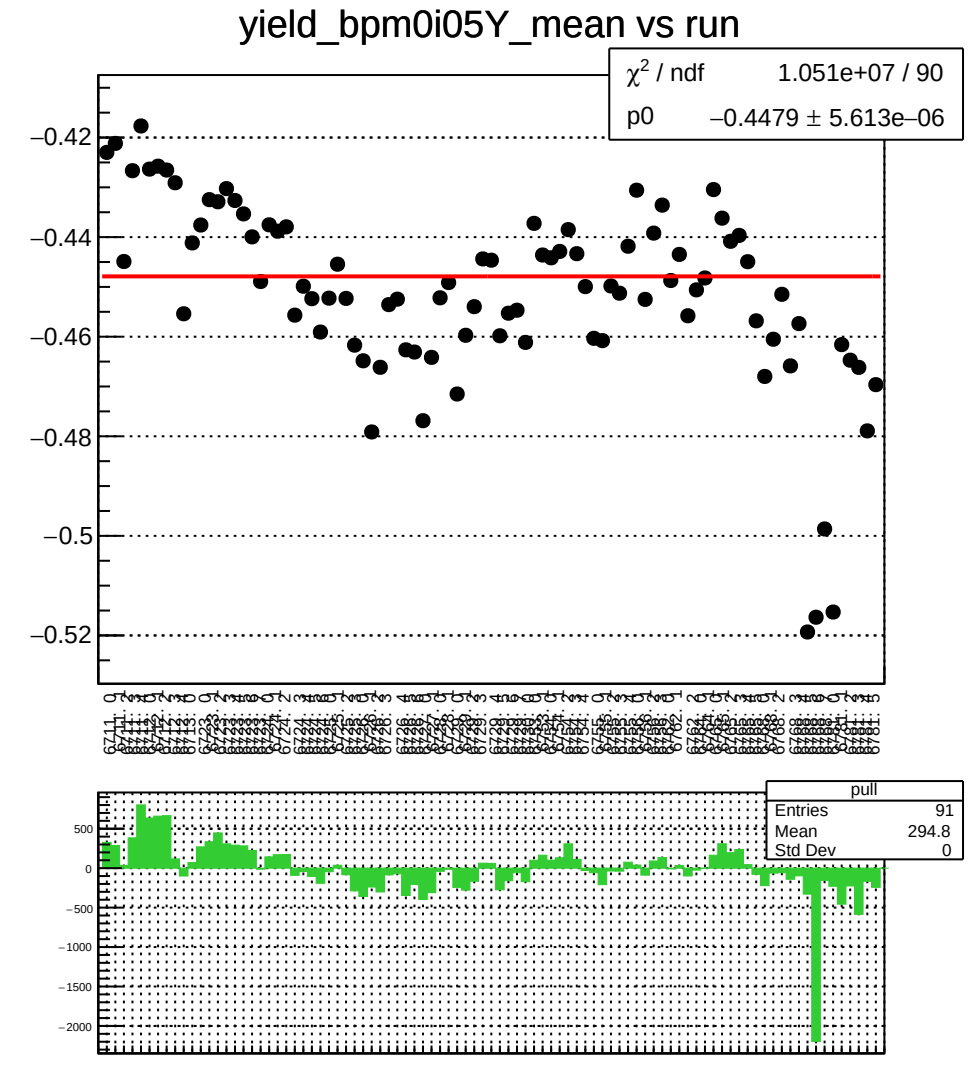

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

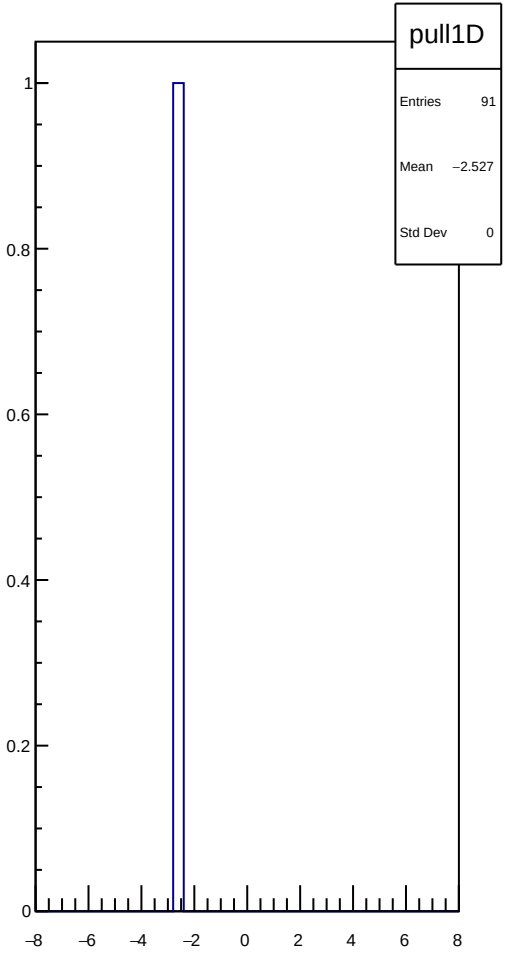

yield_bpm0i02aY_rms vs run
χ² / ndf 4.174e+05 / 90
p0 0.01122 ± 9.528e–06
0.1
0.08
0.06
0.04
0.02


yield_bpm0i05X_mean vs run
χ² / ndf 8.13e+08 / 90
p0 −1.007 ± 9.374e−06
−0.5
−0.6
−0.7
−0.8
−0.9
−1
−1.1
−1.2
−1.3
pull
Entries 91
Mean 497.2
Std Dev 0
8000
6000
4000
2000
0
−2000
−4000

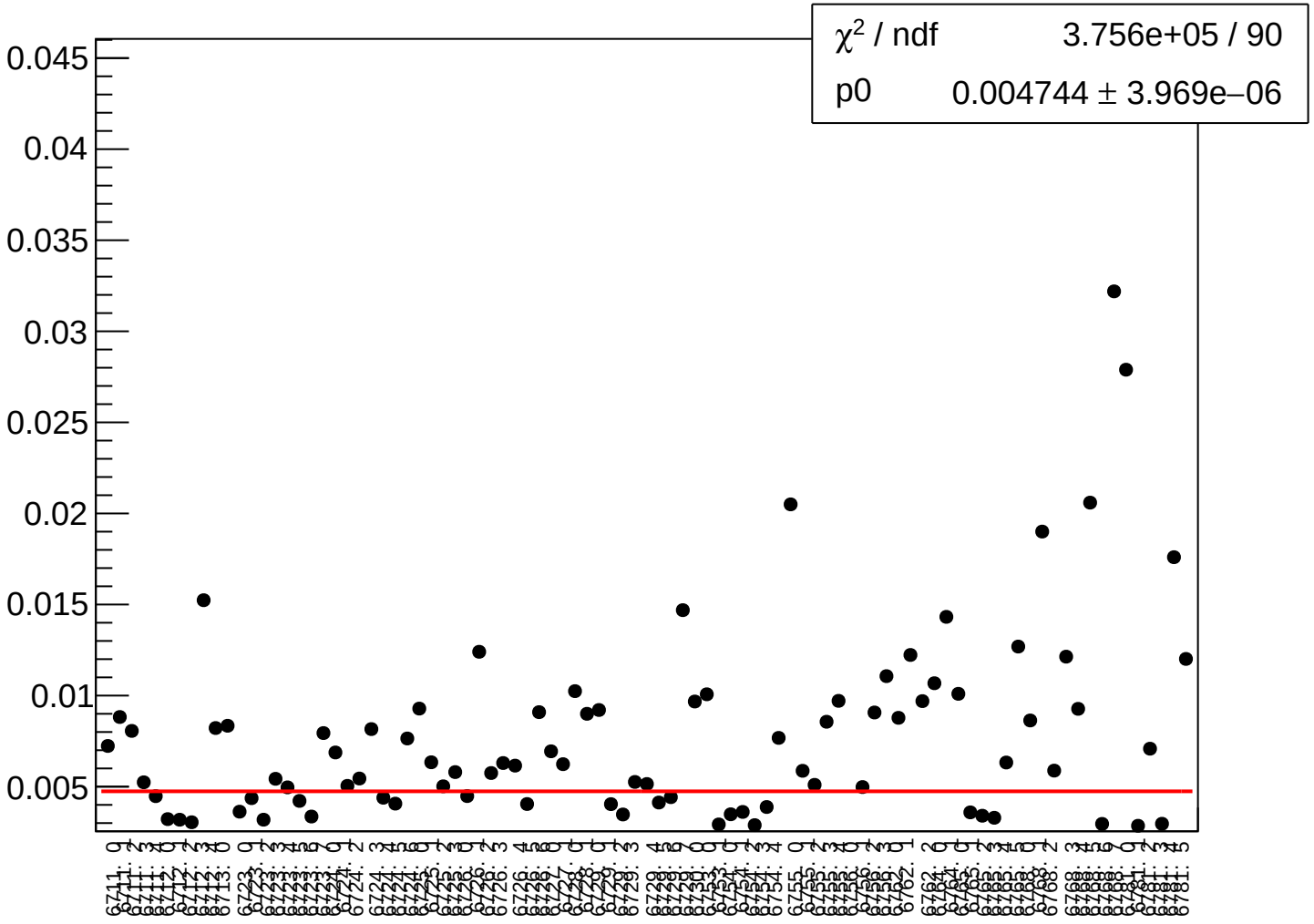

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

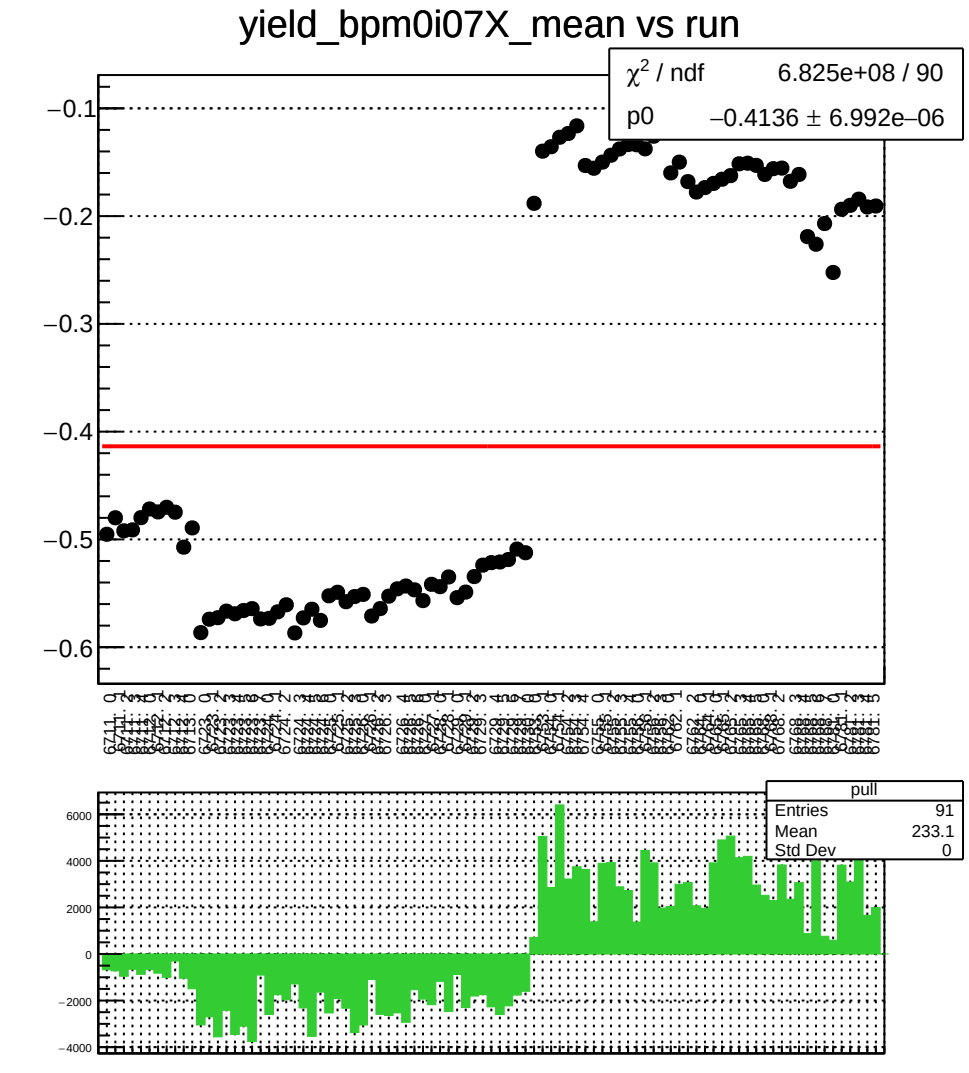

yield_bpm0i05X_rms vs run
χ^2 / ndf 2.255e+05 / 90
p0 0.008329 ± 6.628e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

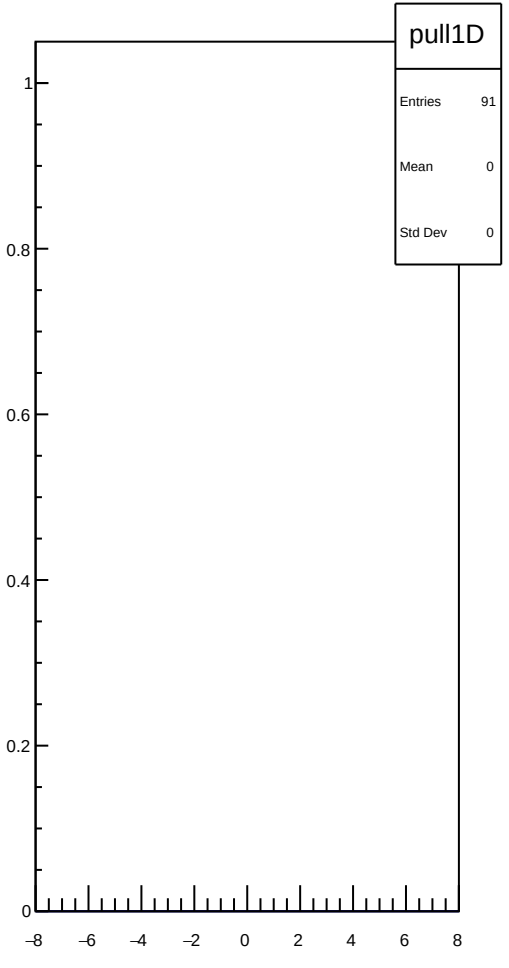

yield_bpm0i05Y_mean vs run
χ² / ndf 1.051e+07 / 90
p0 −0.4479 ± 5.613e−06
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
pull
Entries 91
Mean 294.8
Std Dev 0
500
0
−500
−1000
−1500
−2000

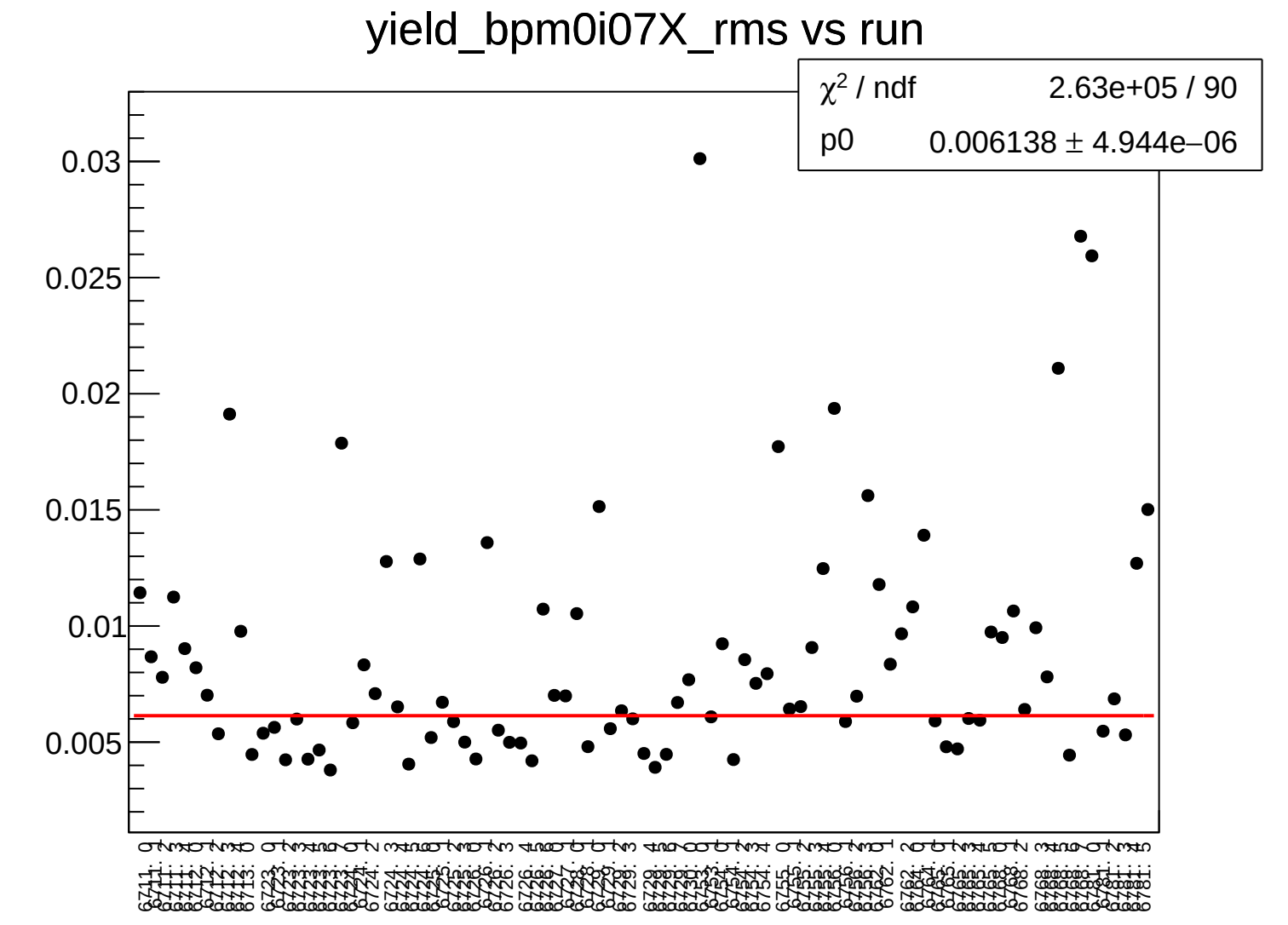

pull1D
Entries 91
Mean −2.527
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

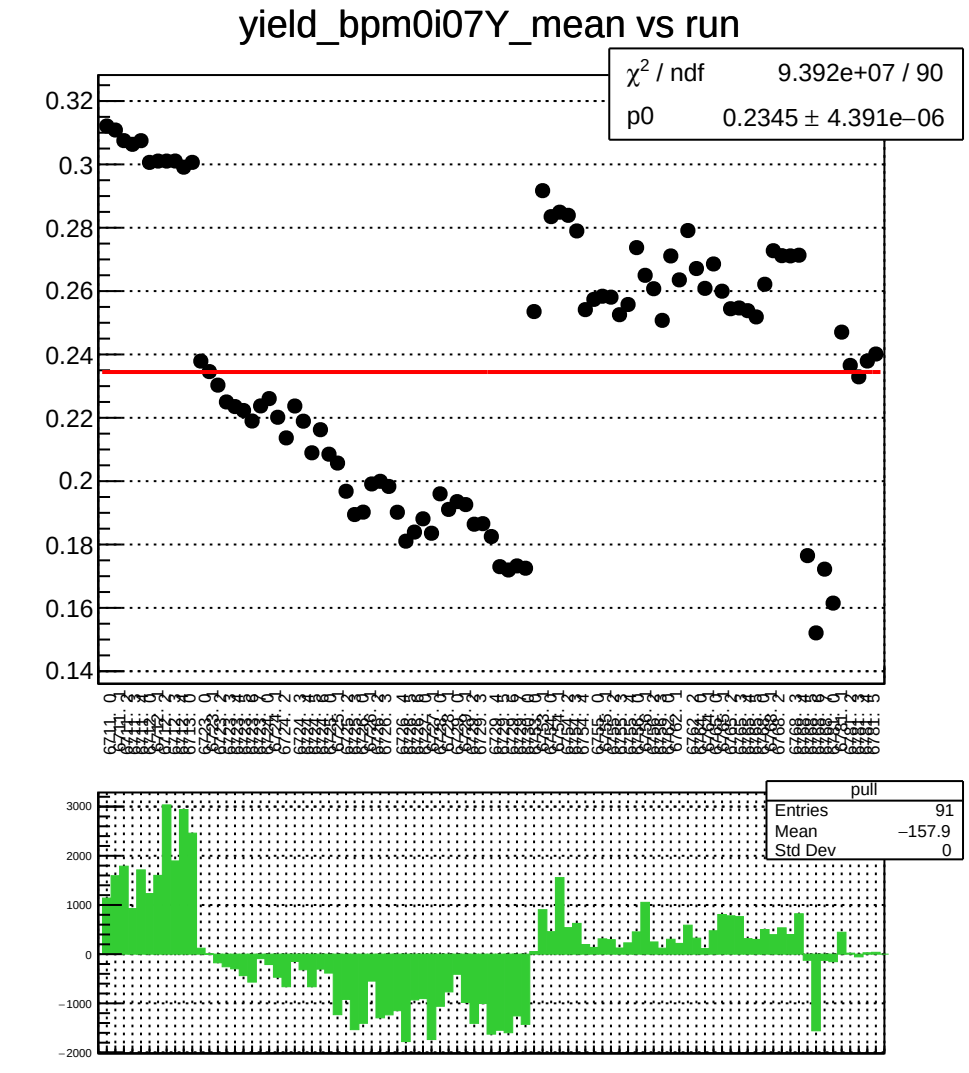
yield_bpm0i05Y_rms vs run

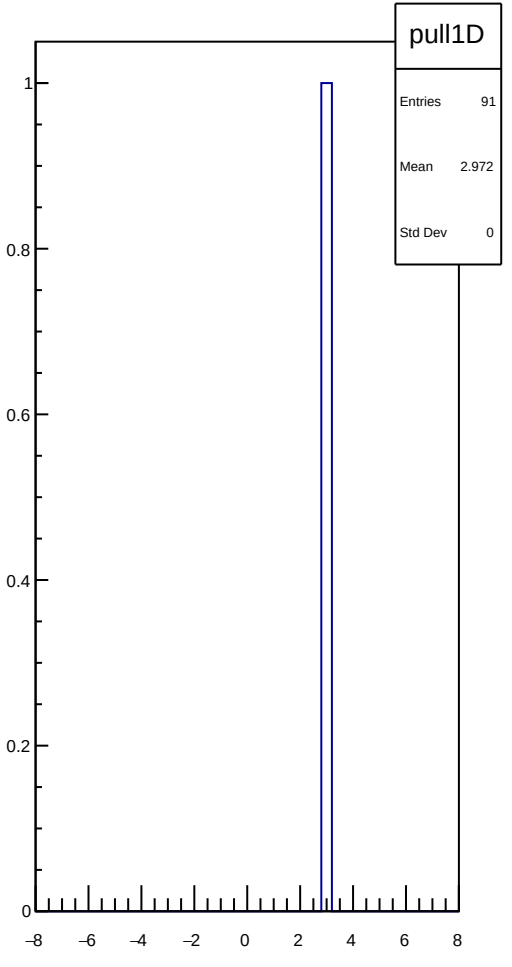


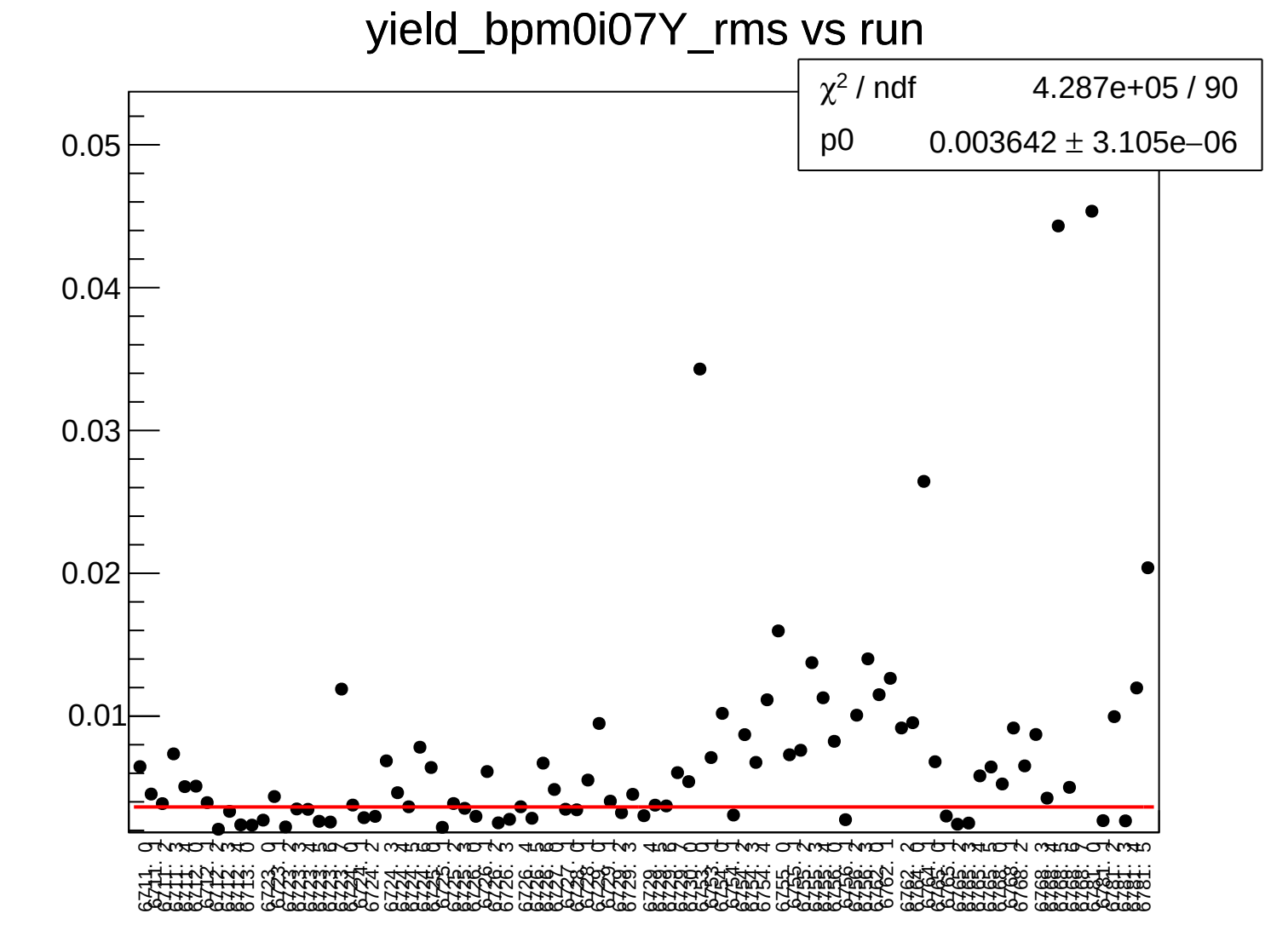

yield_bpm0i07X_mean vs run
χ² / ndf 6.825e+08 / 90
p0 −0.4136 ± 6.992e−06
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
pull
Entries 91
Mean 233.1
Std Dev 0
6000
4000
2000
0
−2000
−4000

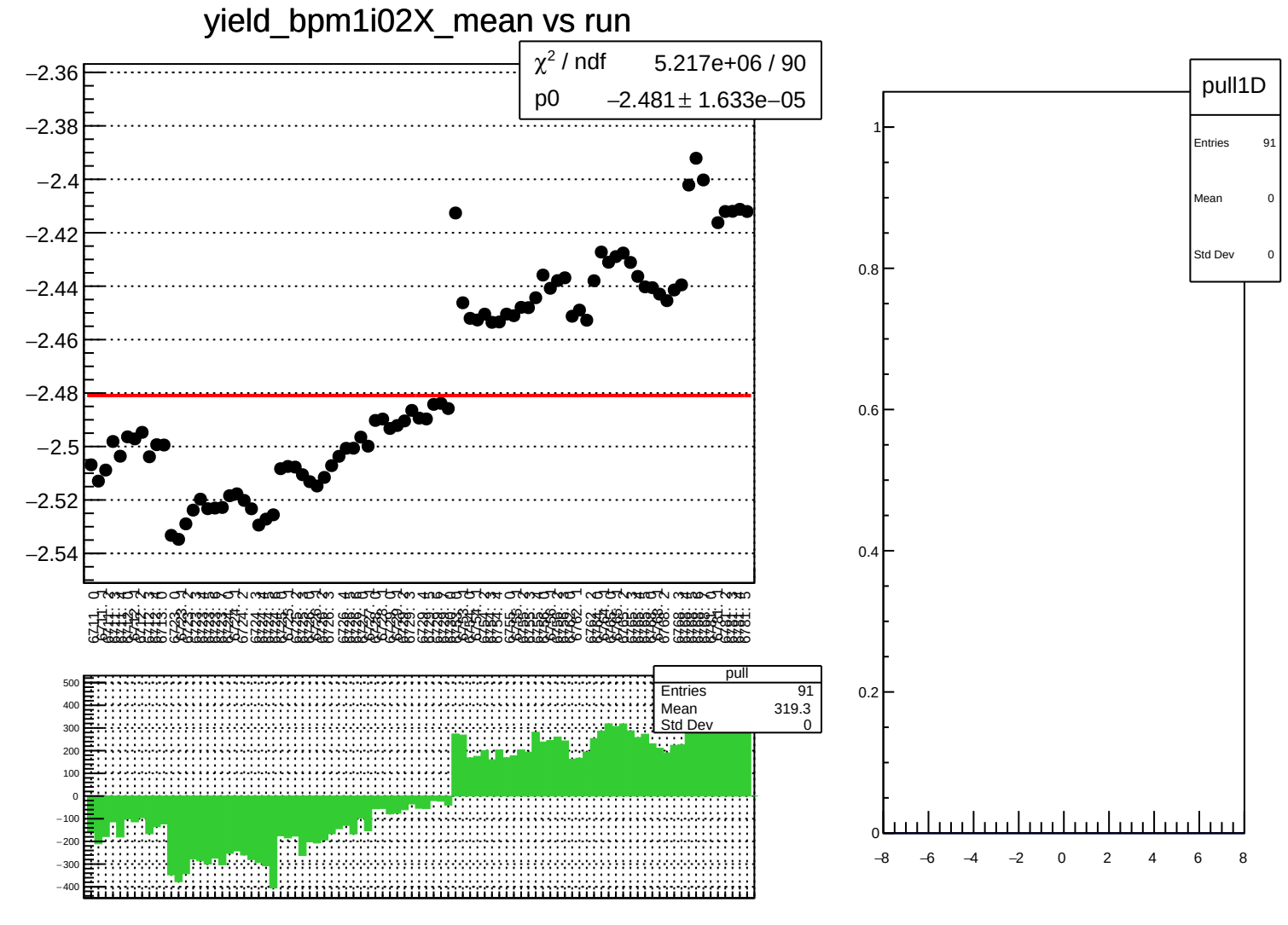

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

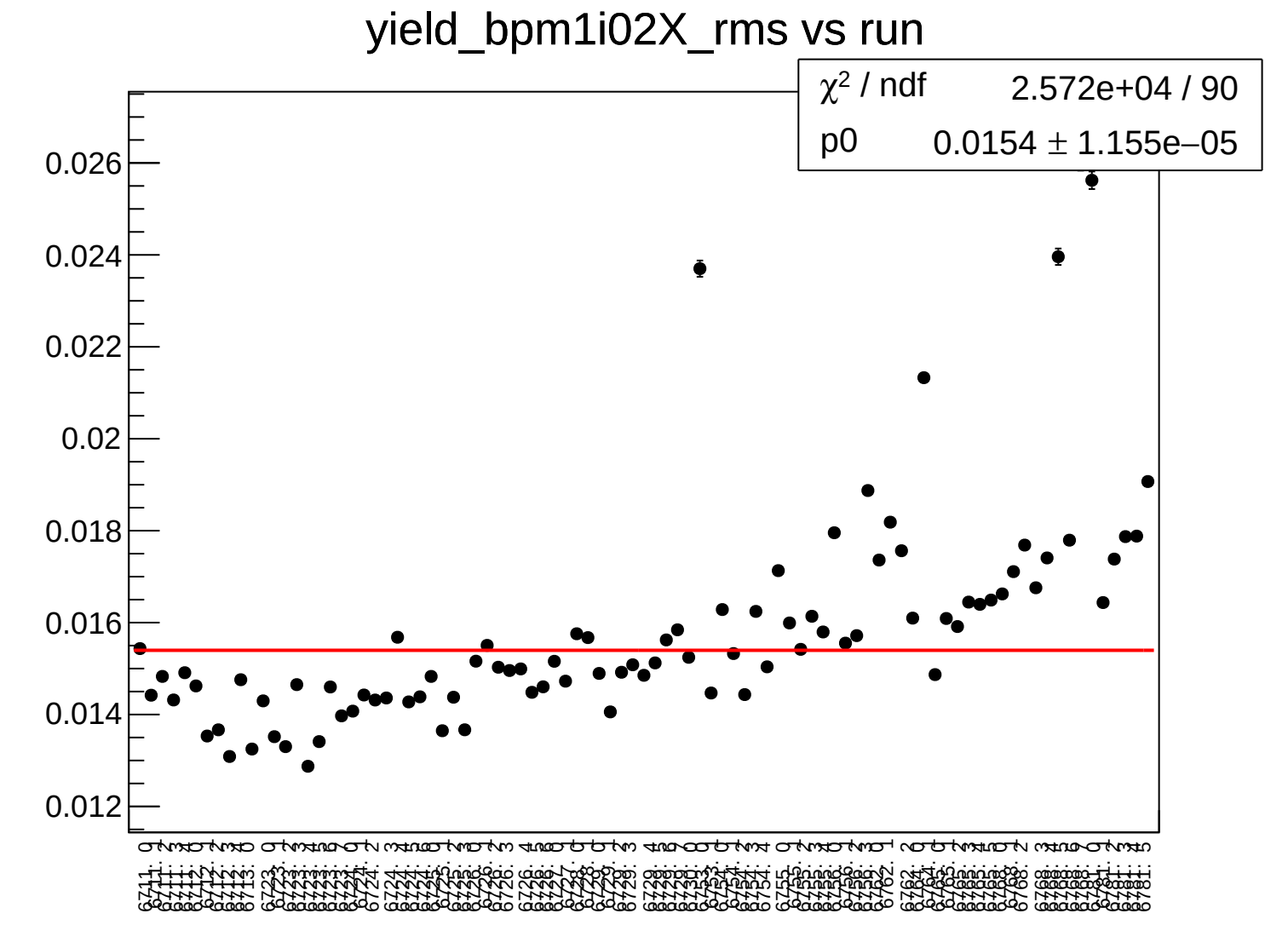

yield_bpm0i07X_rms vs run
χ^2 / ndf 2.63e+05 / 90
p0 0.006138 ± 4.944e−06
0.03
0.025
0.02
0.015
0.01
0.005

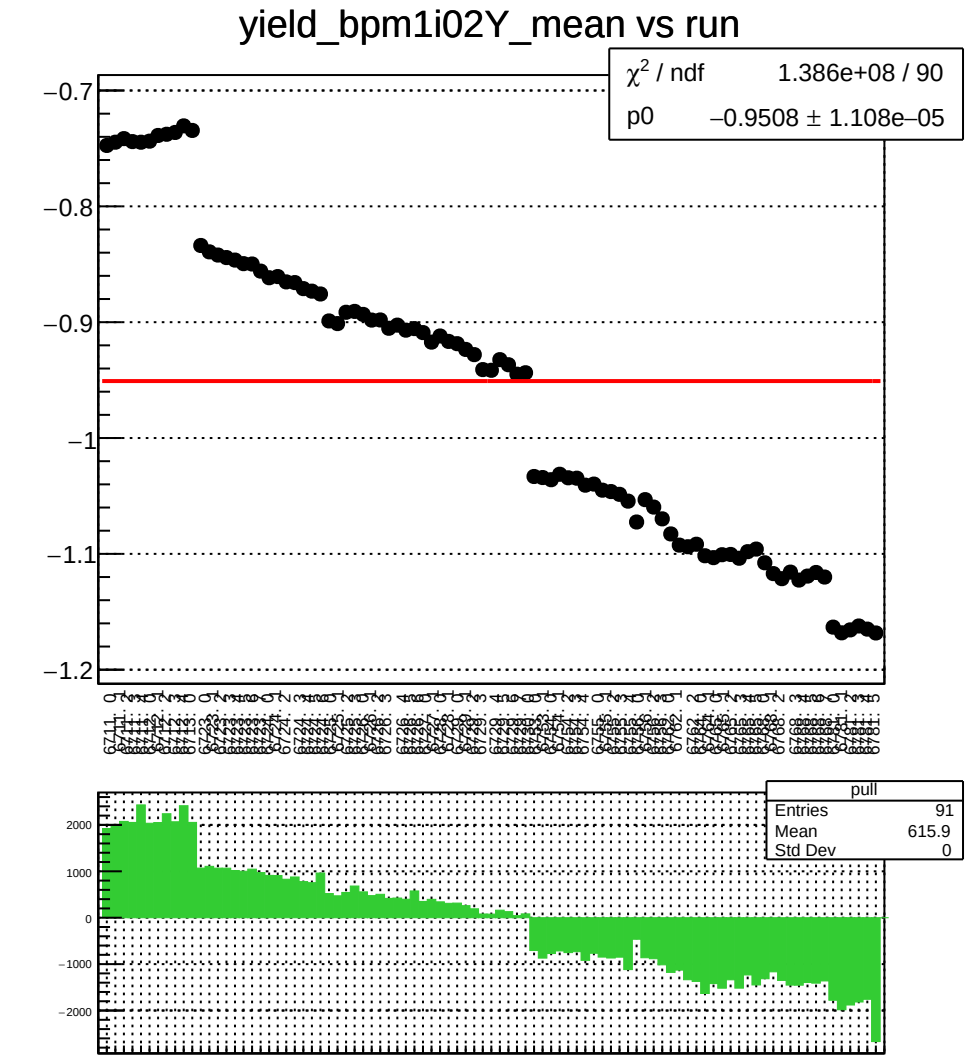

yield_bpm0i07Y_mean vs run
χ² / ndf 9.392e+07 / 90
p0 0.2345 ± 4.391e−06
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
pull
Entries 91
Mean −157.9
Std Dev 0
3000
2000
1000
0
−1000
−2000

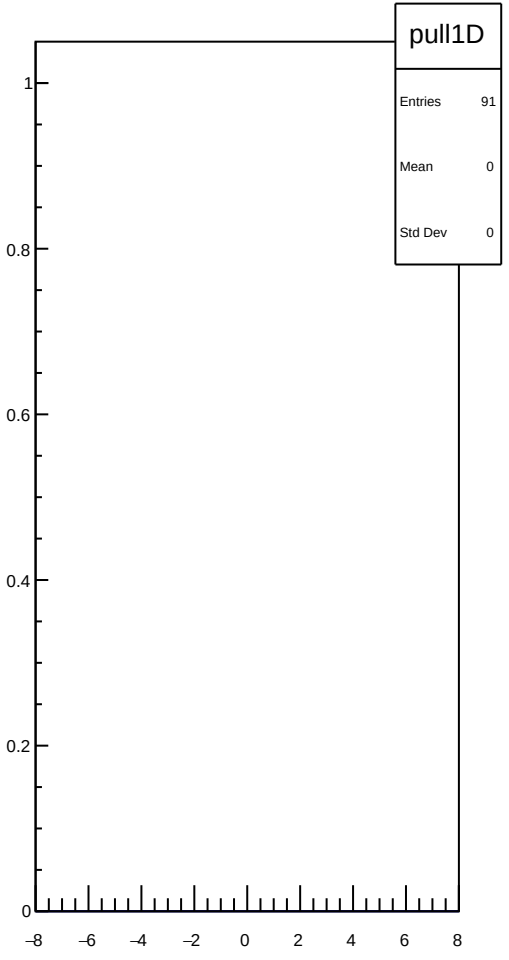

pull1D
Entries 91
Mean 2.972
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

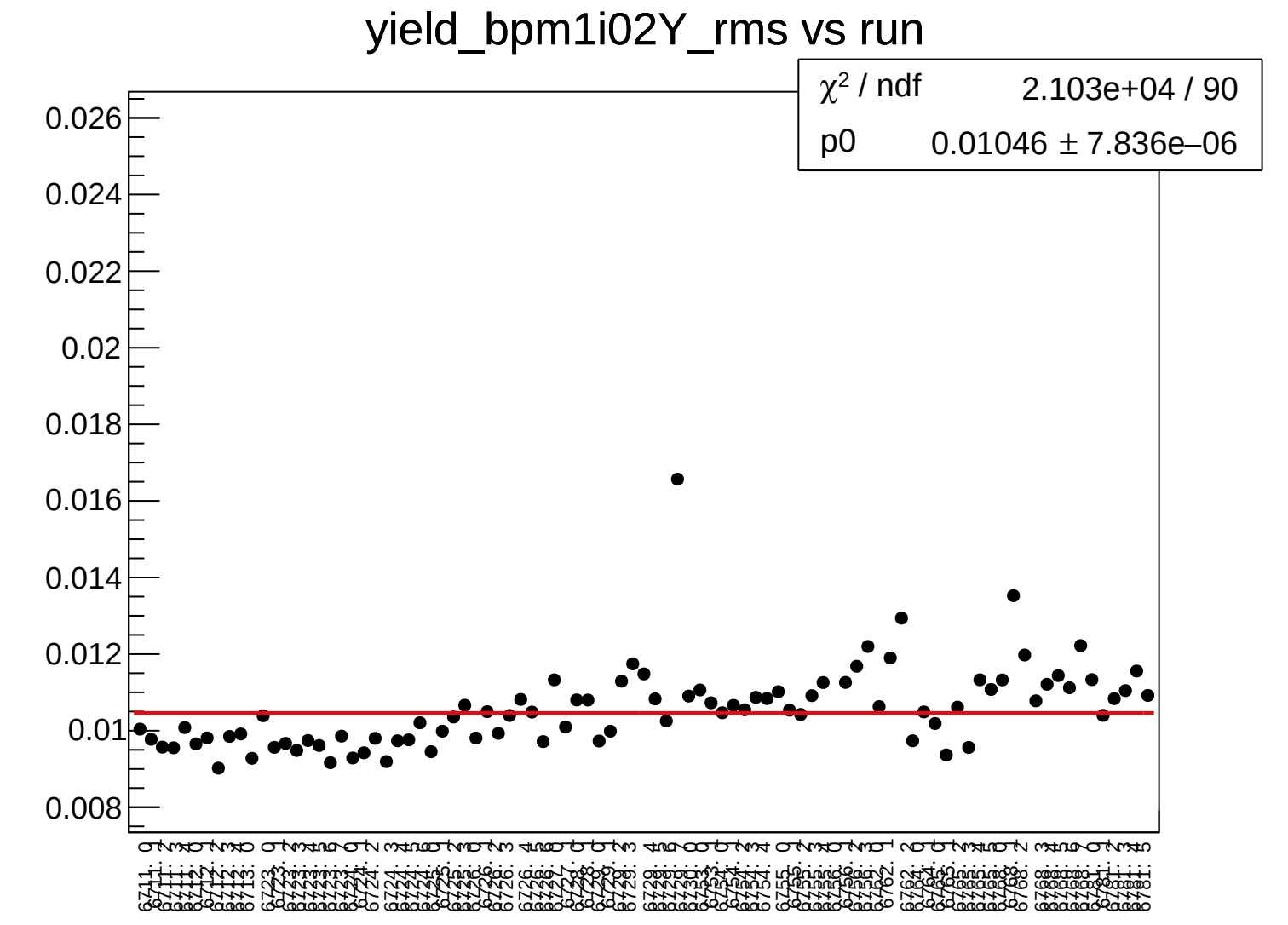

yield_bpm0i07Y_rms vs run
χ² / ndf 4.287e+05 / 90
p0 0.003642 ± 3.105e−06
0.05
0.04
0.03
0.02
0.01

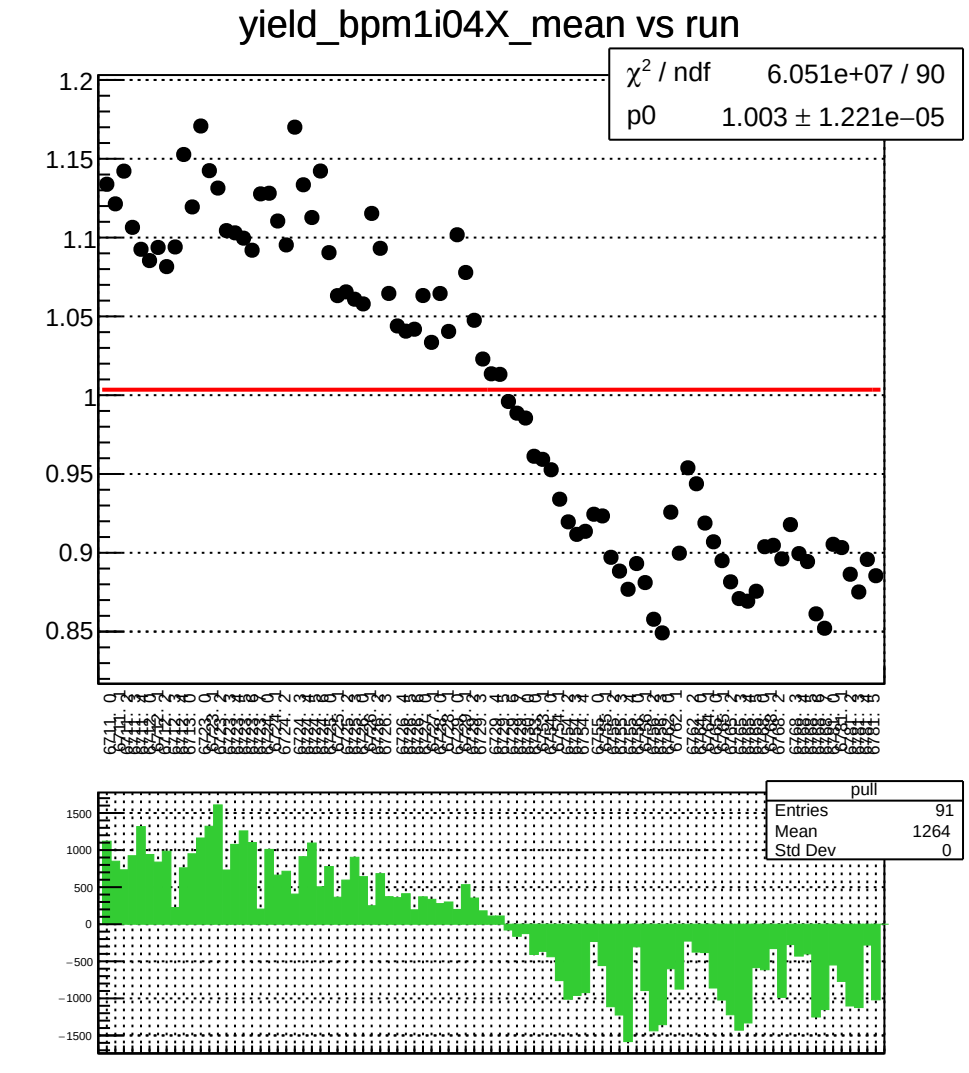

yield_bpm1i02X_mean vs run
χ² / ndf 5.217e+06 / 90
p0 −2.481 ± 1.633e−05
−2.36
−2.38
−2.4
−2.42
−2.44
−2.46
−2.48
−2.5
−2.52
−2.54
pull
Entries 91
Mean 319.3
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

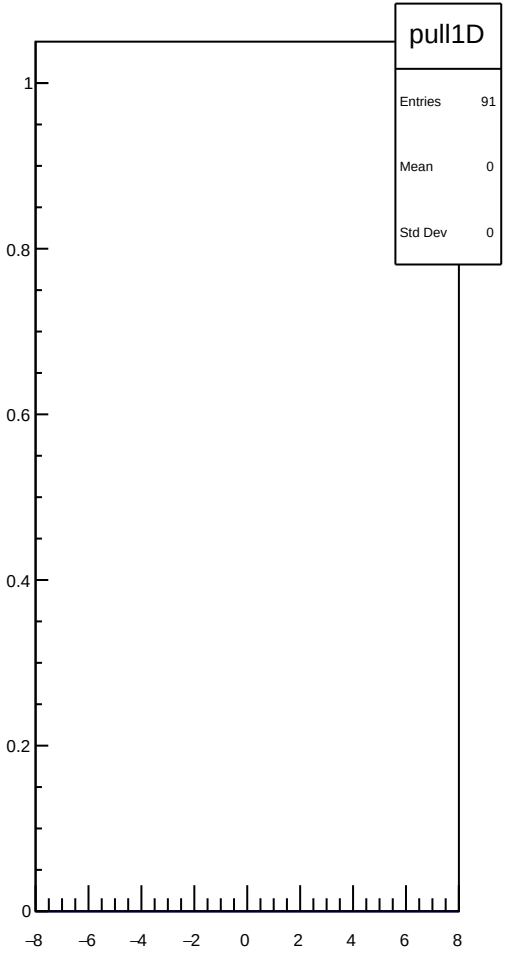

yield_bpm1i02X_rms vs run
χ² / ndf 2.572e+04 / 90
p0 0.0154 ± 1.155e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

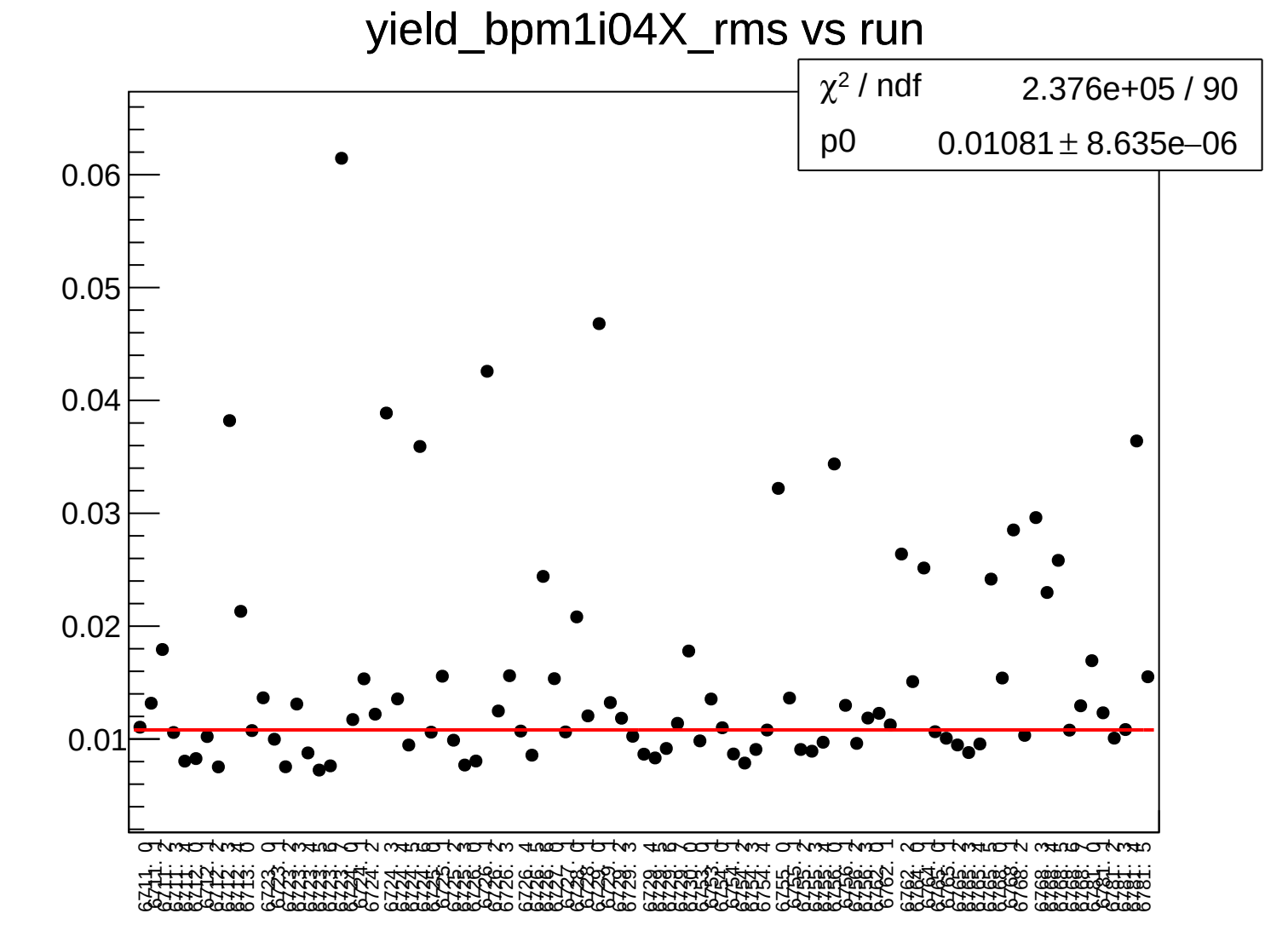

yield_bpm1i02Y_mean vs run
χ² / ndf 1.386e+08 / 90
p0 −0.9508 ± 1.108e−05
−0.7
−0.8
−0.9
−1
−1.1
−1.2
pull
Entries 91
Mean 615.9
Std Dev 0
2000
1000
0
−1000
−2000

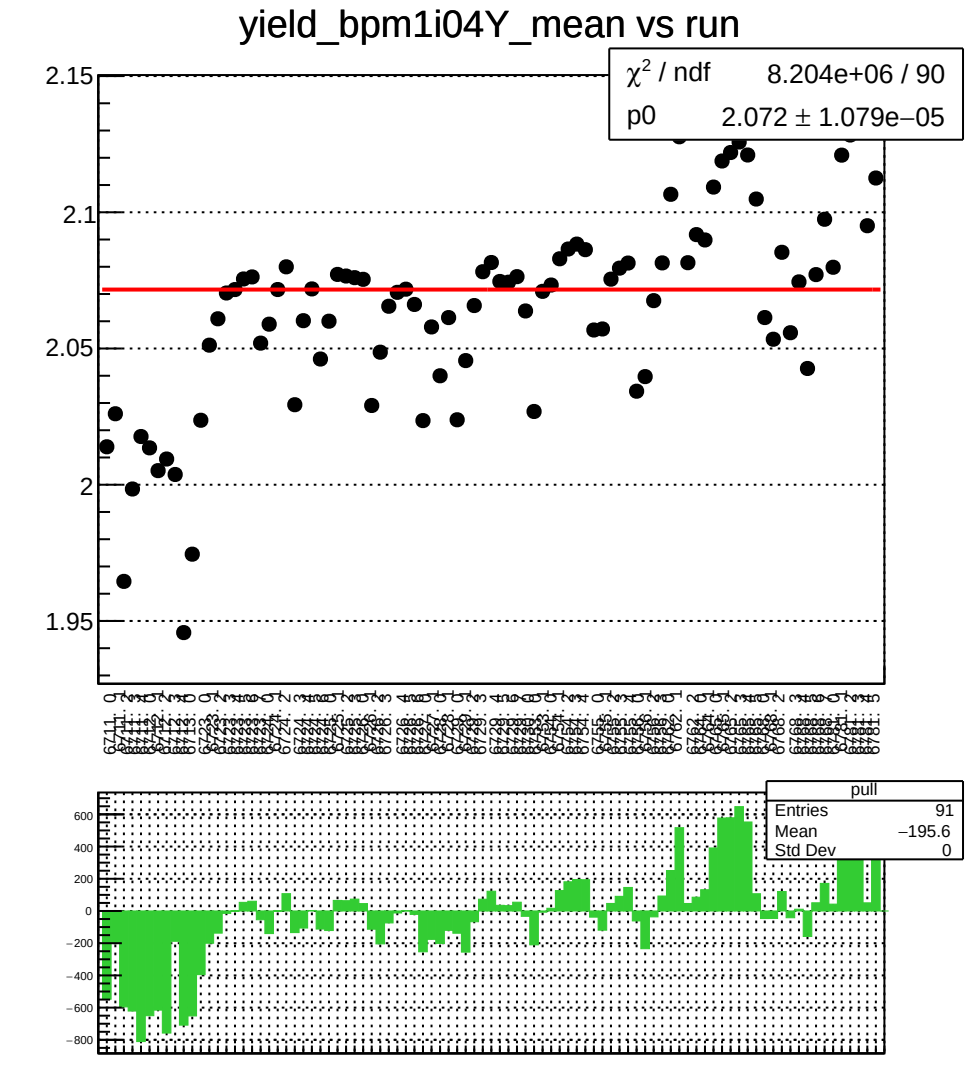

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

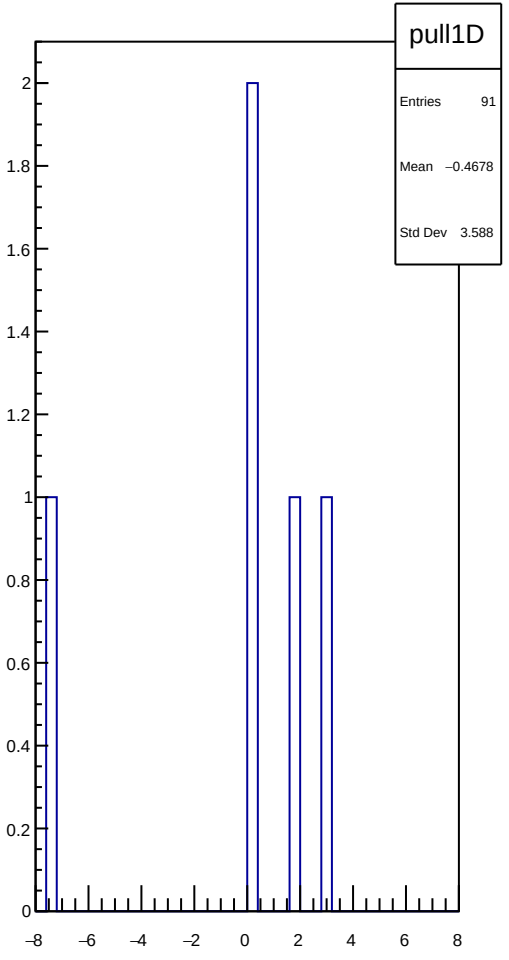

yield_bpm1i02Y_rms vs run
χ² / ndf 2.103e+04 / 90
p0 0.01046 ± 7.836e–06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

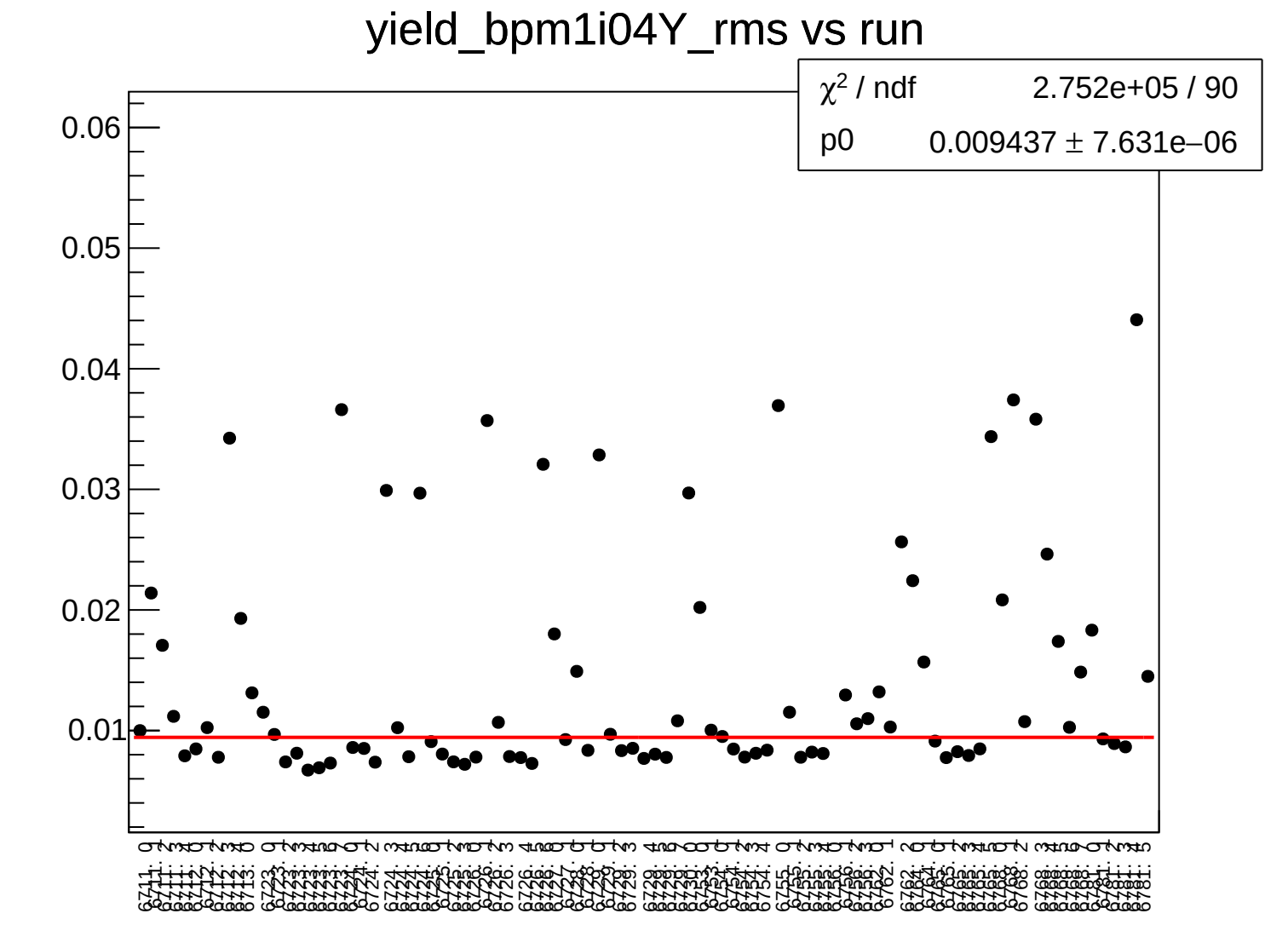

yield_bpm1i04X_mean vs run
χ² / ndf 6.051e+07 / 90
p0 1.003 ± 1.221e−05
1.2
1.15
1.1
1.05
1
0.95
0.9
0.85
pull
Entries 91
Mean 1264
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

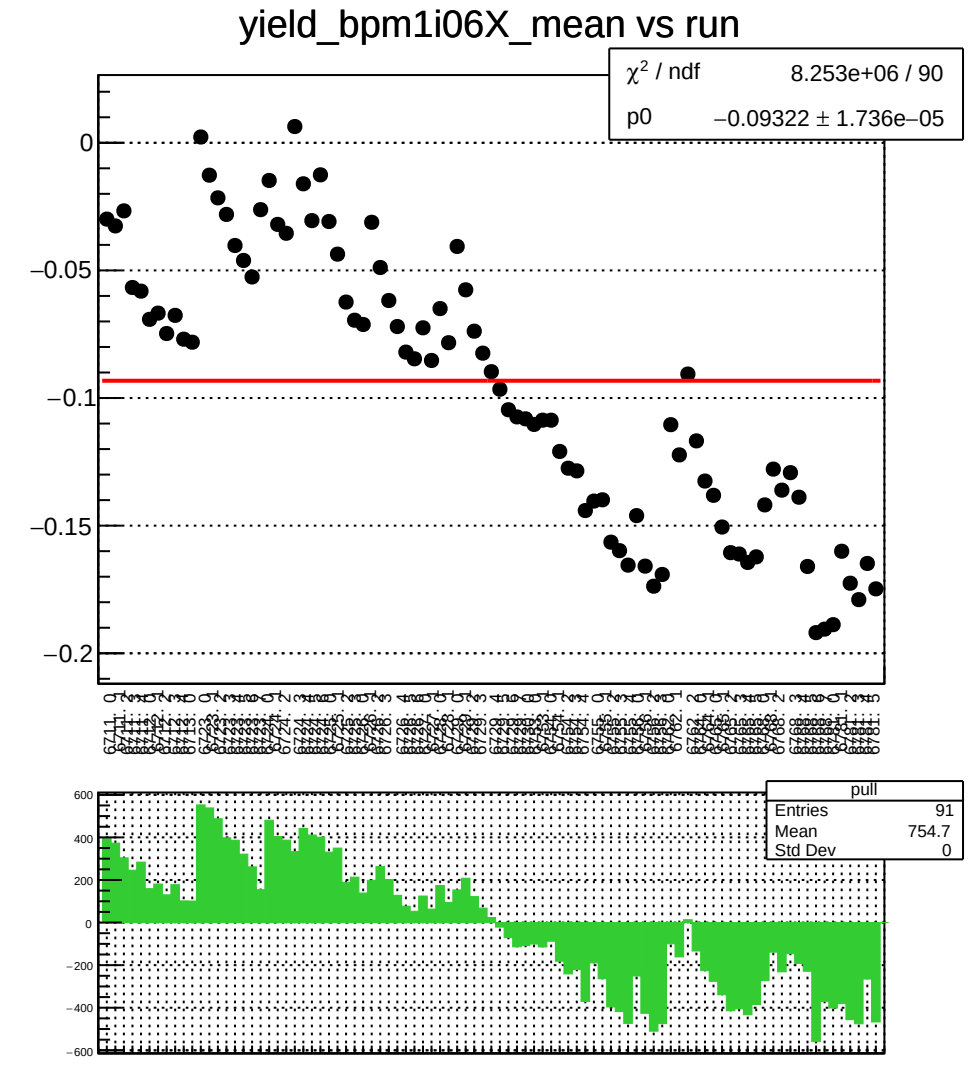

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

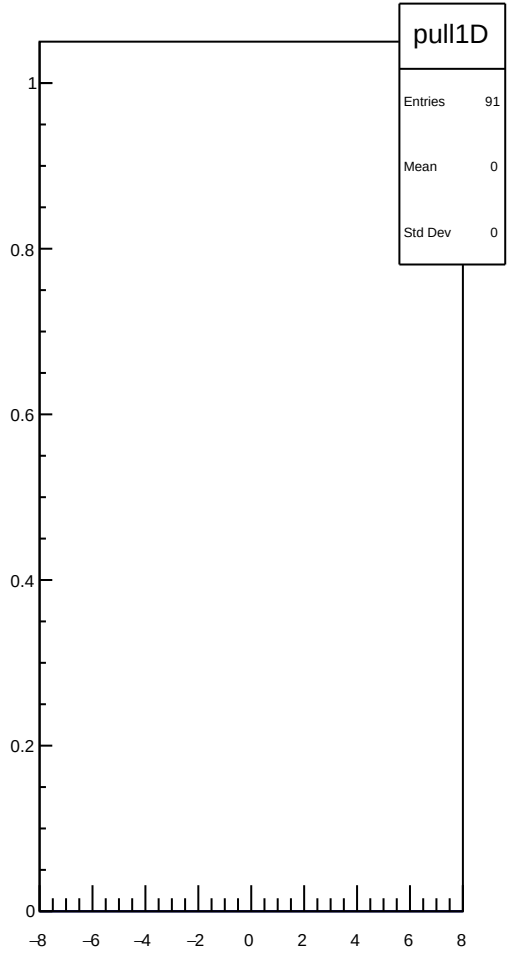

yield_bpm1i04X_rms vs run
χ² / ndf 2.376e+05 / 90
p0 0.01081 ± 8.635e–06
0.06
0.05
0.04
0.03
0.02
0.01

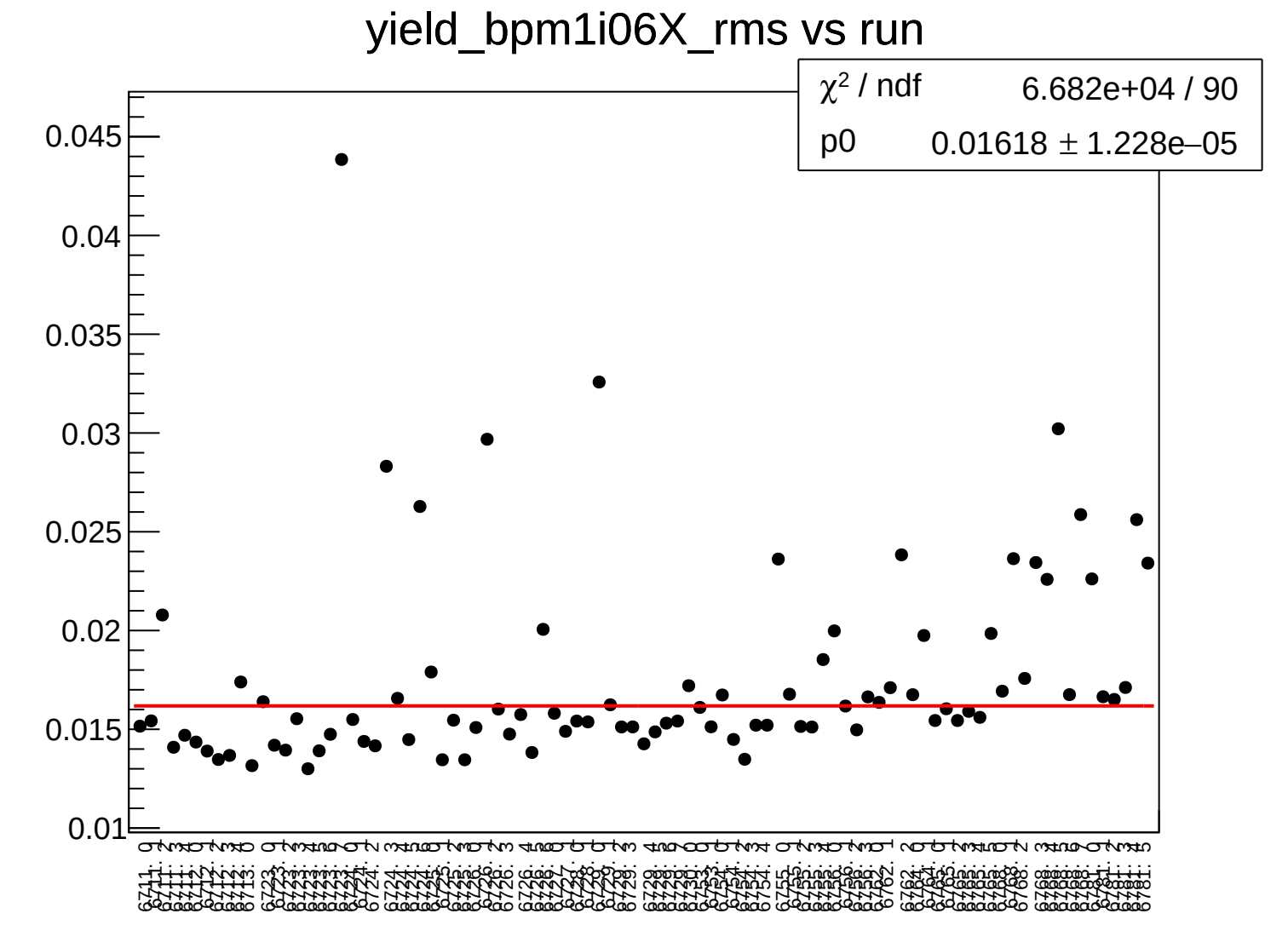

yield_bpm1i04Y_mean vs run
χ² / ndf 8.204e+06 / 90
p0 2.072 ± 1.079e−05
2.15
2.1
2.05
2
1.95
pull
Entries 91
Mean −195.6
Std Dev 0
600
400
200
0
−200
−400
−600
−800

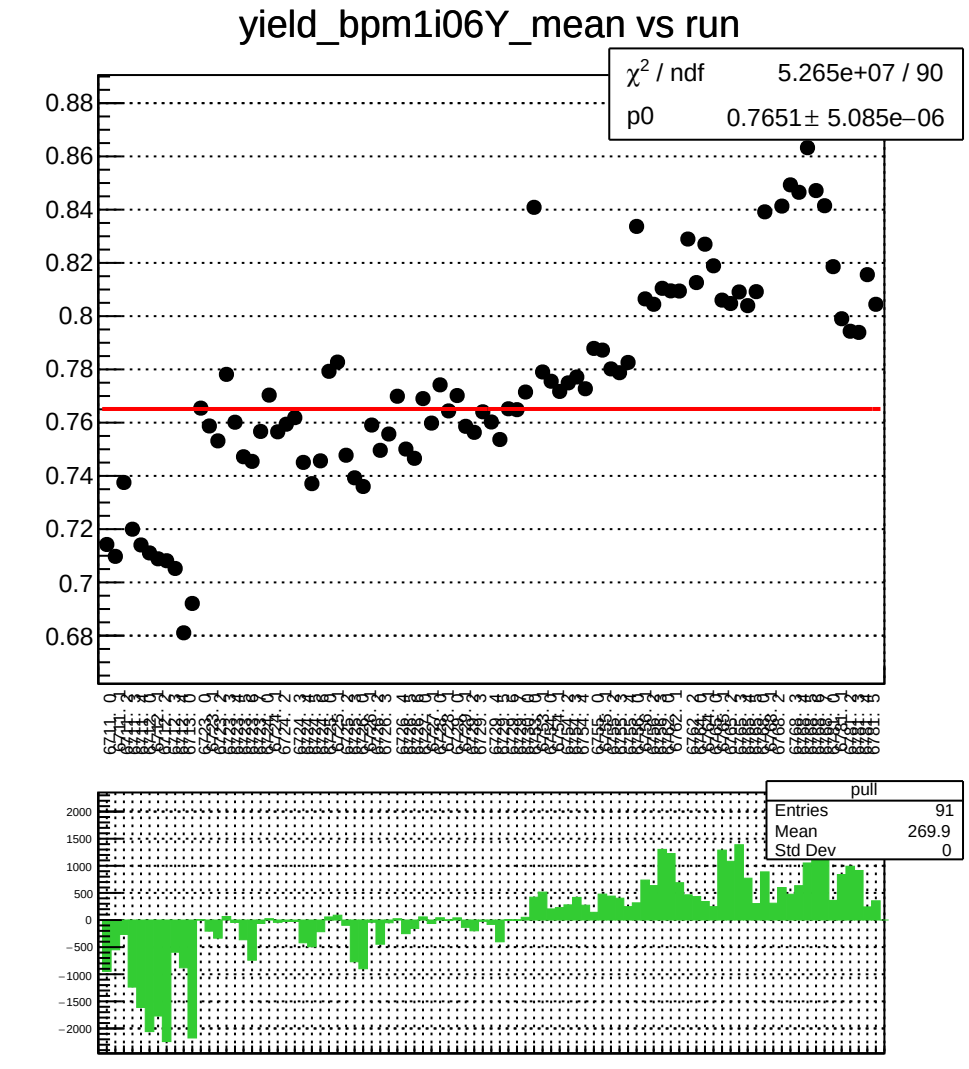

pull1D
Entries 91
Mean −0.4678
Std Dev 3.588
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

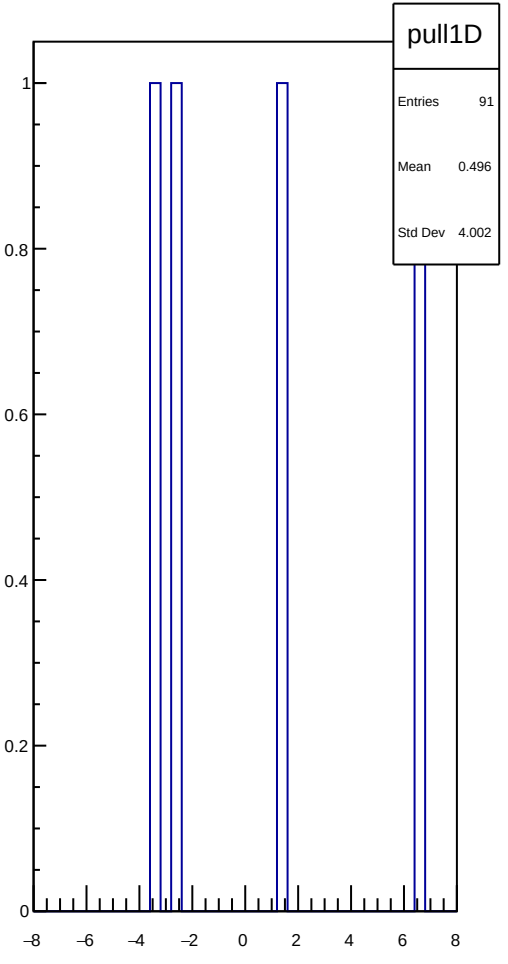

yield_bpm1i04Y_rms vs run
χ² / ndf 2.752e+05 / 90
p0 0.009437 ± 7.631e−06
0.06
0.05
0.04
0.03
0.02
0.01


yield_bpm1i06X_mean vs run
χ² / ndf 8.253e+06 / 90
p0 −0.09322 ± 1.736e−05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 91
Mean 754.7
Std Dev 0
600
400
200
0
−200
−400
−600

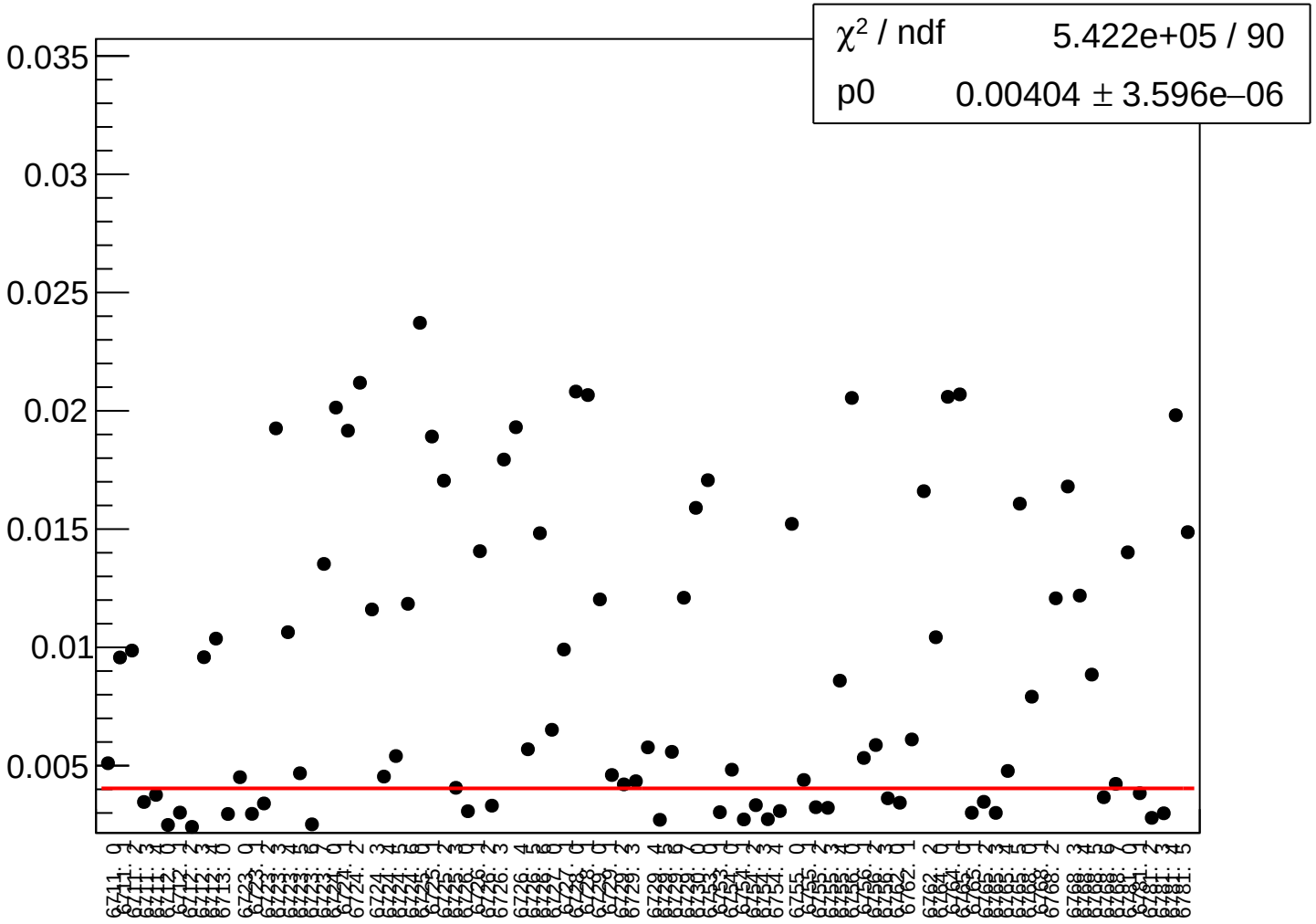

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

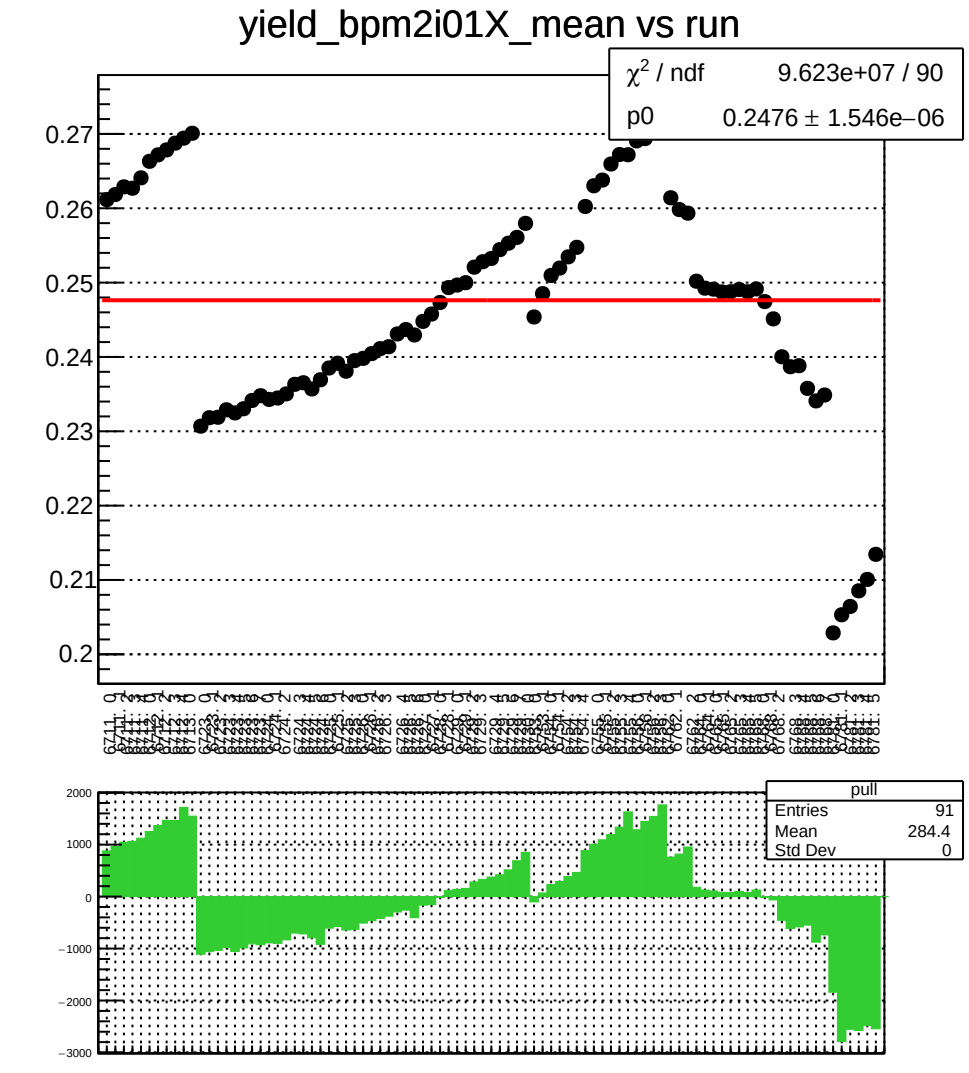

yield_bpm1i06X_rms vs run
χ² / ndf 6.682e+04 / 90
p0 0.01618 ± 1.228e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

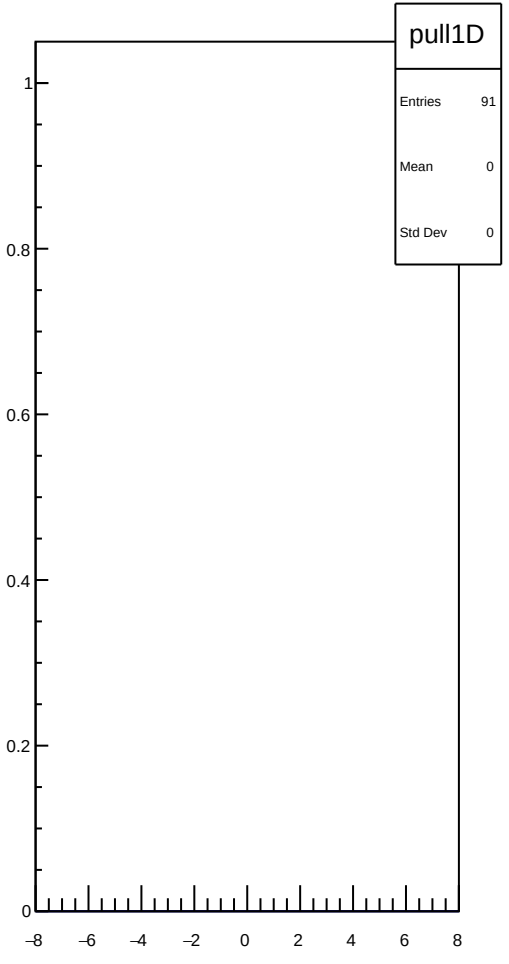

yield_bpm1i06Y_mean vs run
χ² / ndf 5.265e+07 / 90
p0 0.7651 ± 5.085e−06
pull
Entries 91
Mean 269.9
Std Dev 0

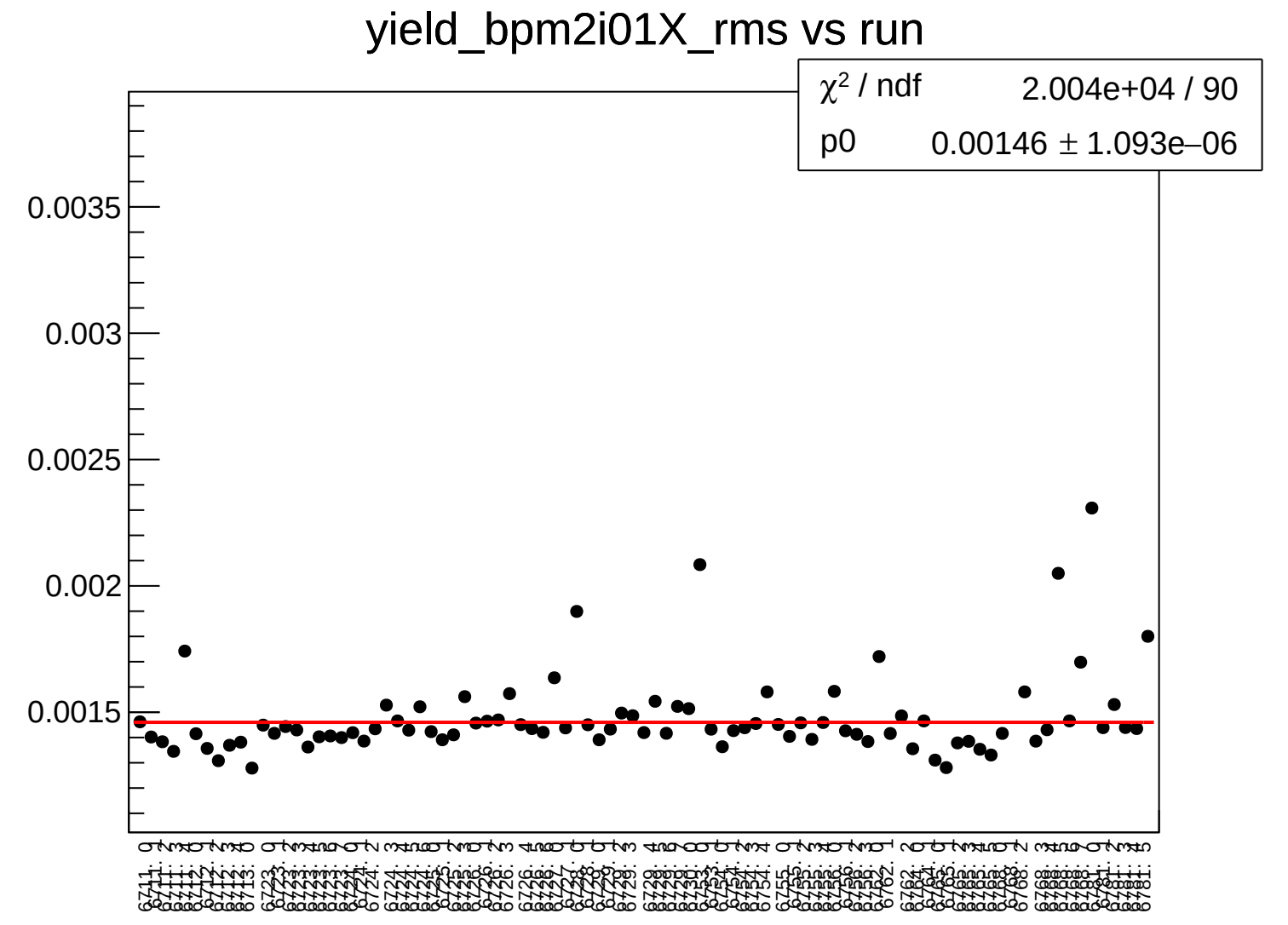

pull1D
Entries 91
Mean 0.496
Std Dev 4.002

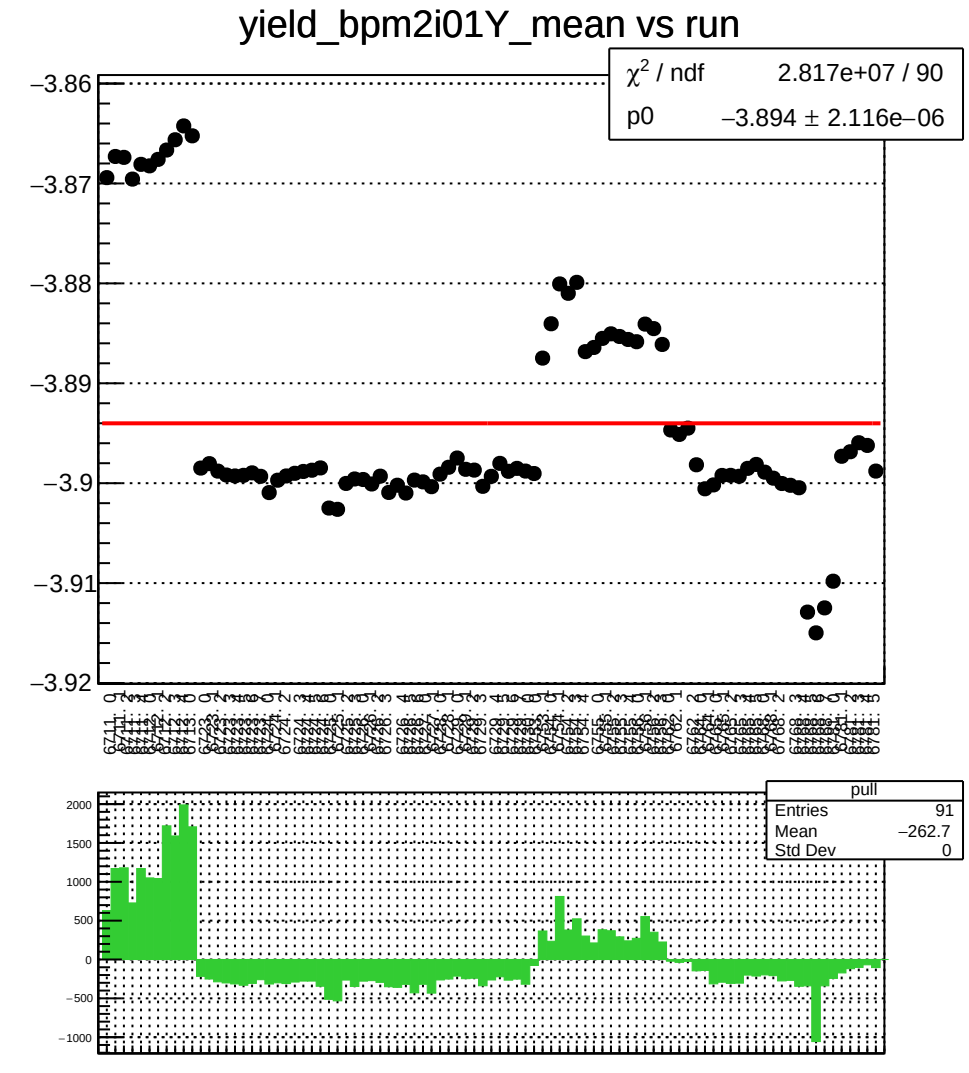
yield_bpm1i06Y_rms vs run

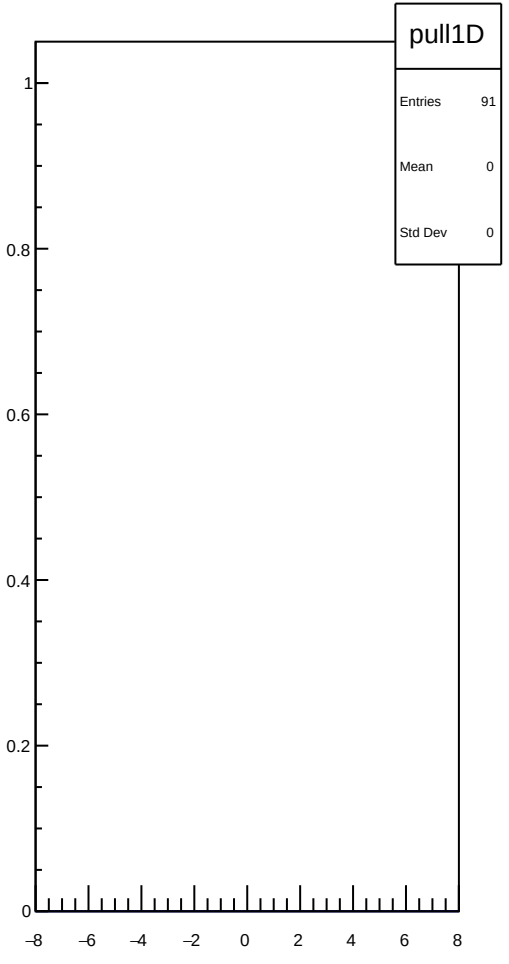


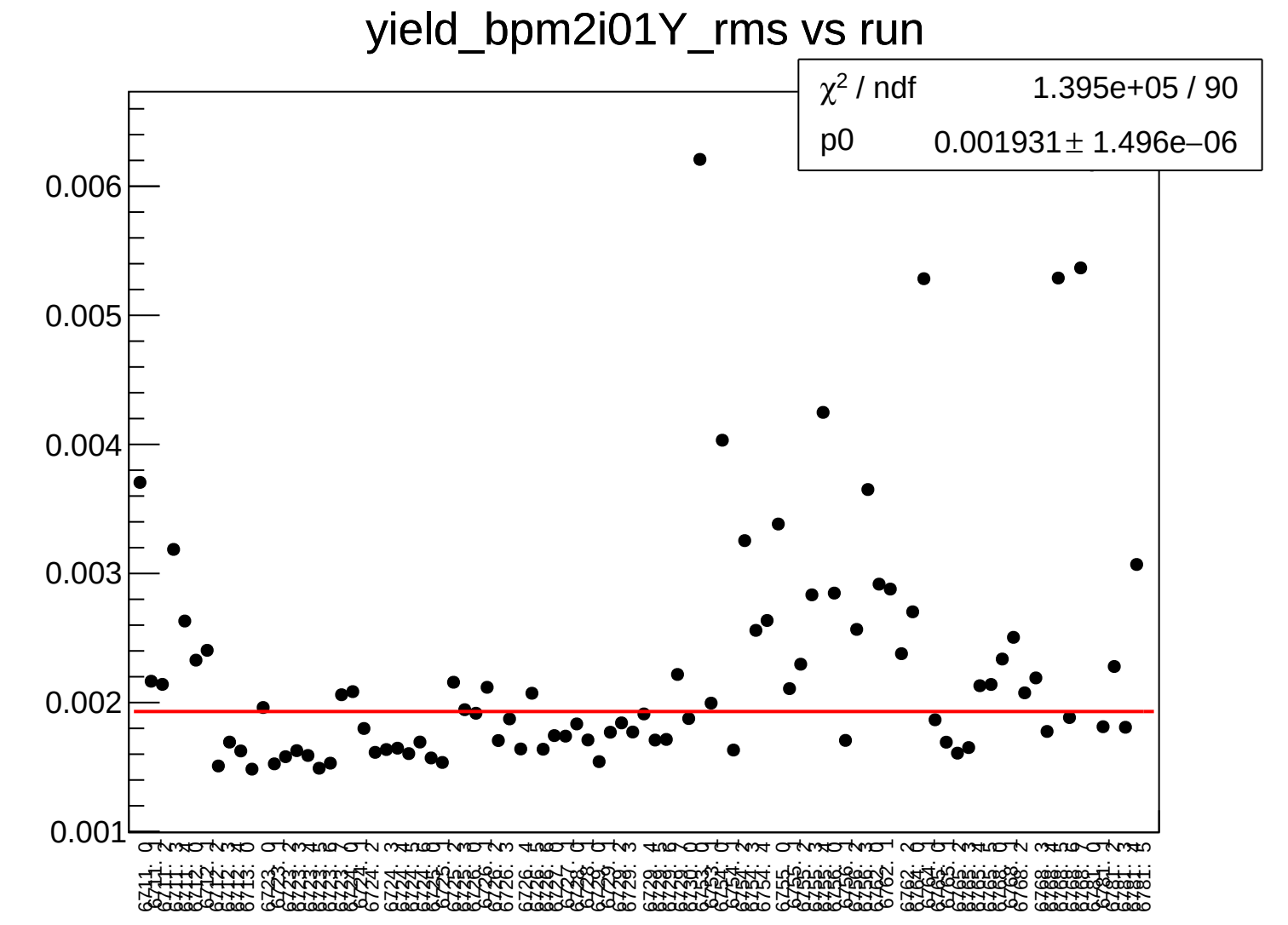

yield_bpm2i01X_mean vs run
χ² / ndf 9.623e+07 / 90
p0 0.2476 ± 1.546e−06
0.27
0.26
0.25
0.24
0.23
0.22
0.21
0.2
pull
Entries 91
Mean 284.4
Std Dev 0
2000
1000
0
−1000
−2000
−3000

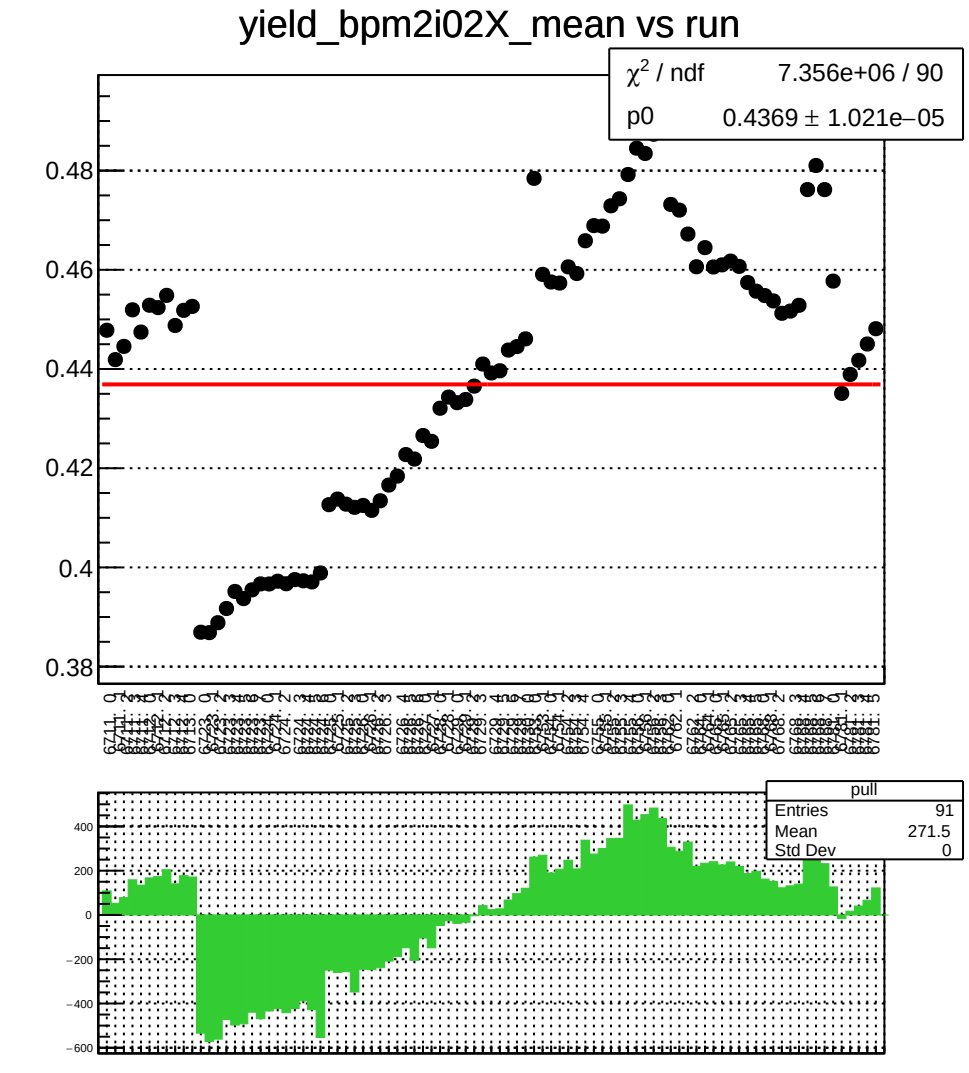

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

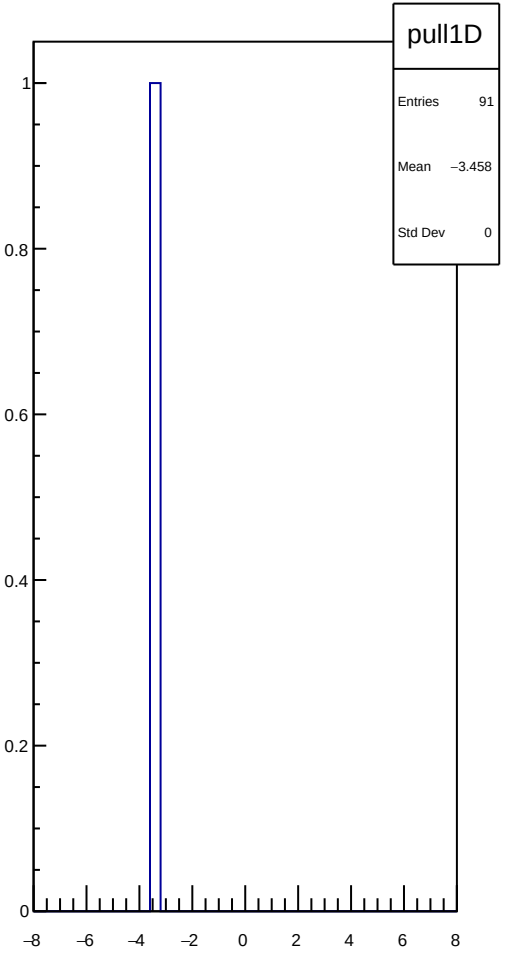

yield_bpm2i01X_rms vs run
χ² / ndf 2.004e+04 / 90
p0 0.00146 ± 1.093e–06
0.0035
0.003
0.0025
0.002
0.0015

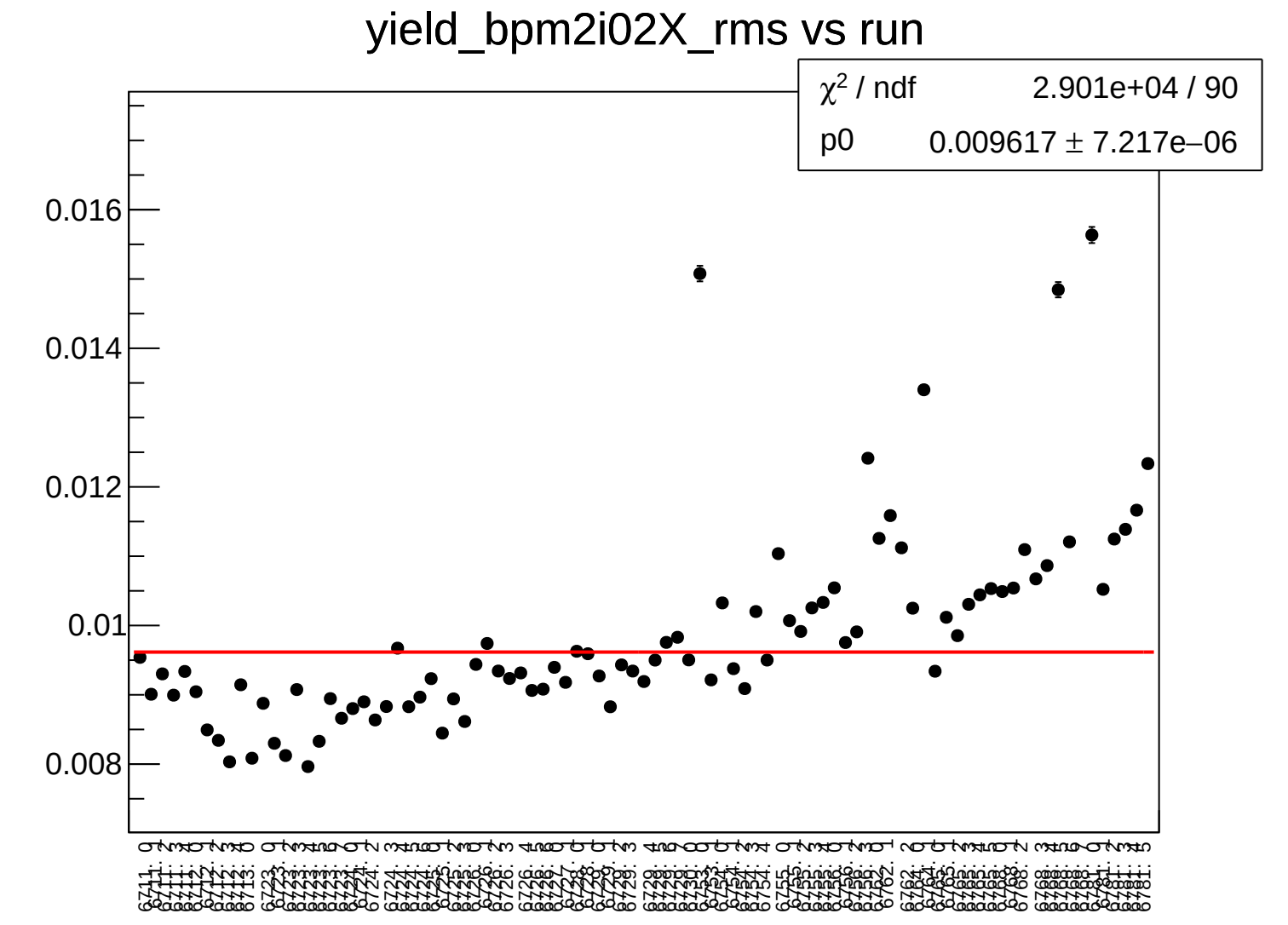

yield_bpm2i01Y_mean vs run
χ² / ndf 2.817e+07 / 90
p0 −3.894 ± 2.116e−06
−3.86
−3.87
−3.88
−3.89
−3.9
−3.91
−3.92
pull
Entries 91
Mean −262.7
Std Dev 0
2000
1500
1000
500
0
−500
−1000

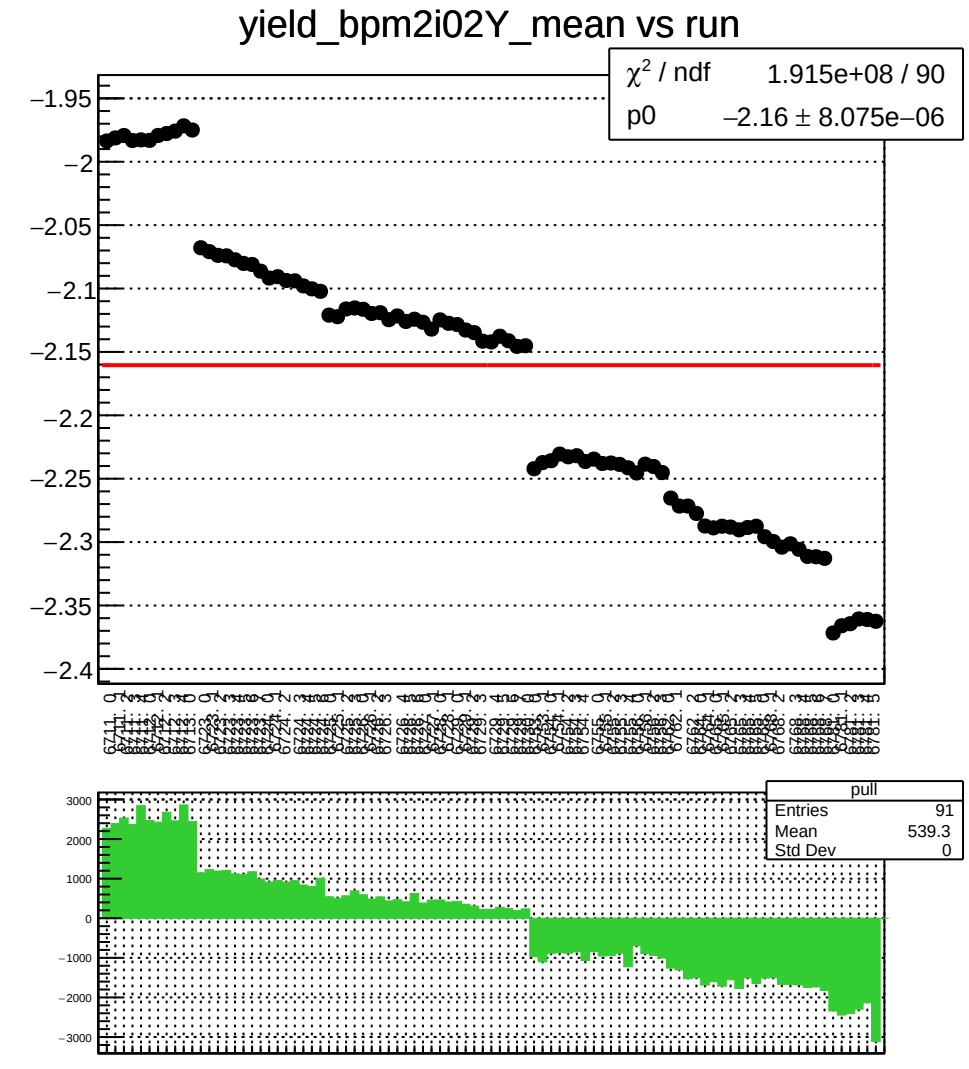

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

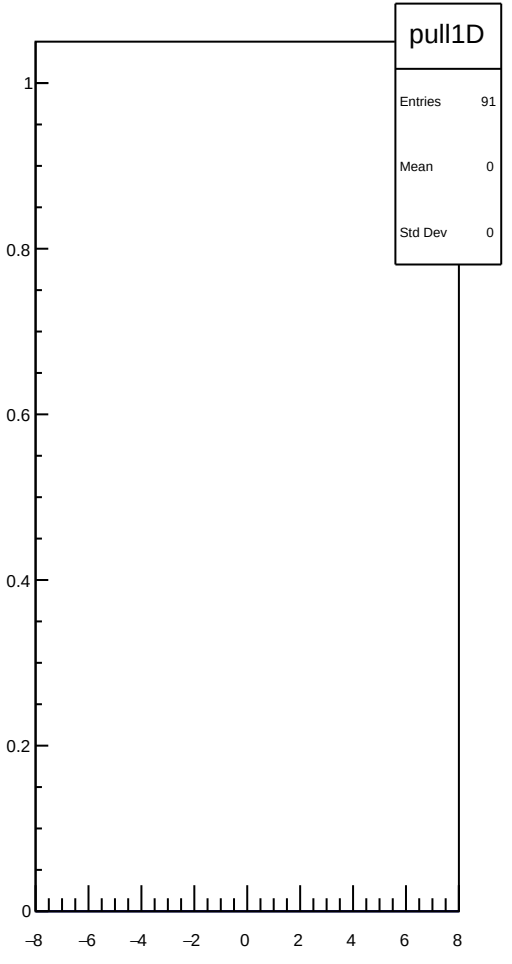

yield_bpm2i01Y_rms vs run
χ² / ndf 1.395e+05 / 90
p0 0.001931 ± 1.496e−06
0.006
0.005
0.004
0.003
0.002
0.001


yield_bpm2i02X_mean vs run
χ² / ndf 7.356e+06 / 90
p0 0.4369 ± 1.021e−05
0.48
0.46
0.44
0.42
0.4
0.38
pull
Entries 91
Mean 271.5
Std Dev 0
400
200
0
−200
−400
−600

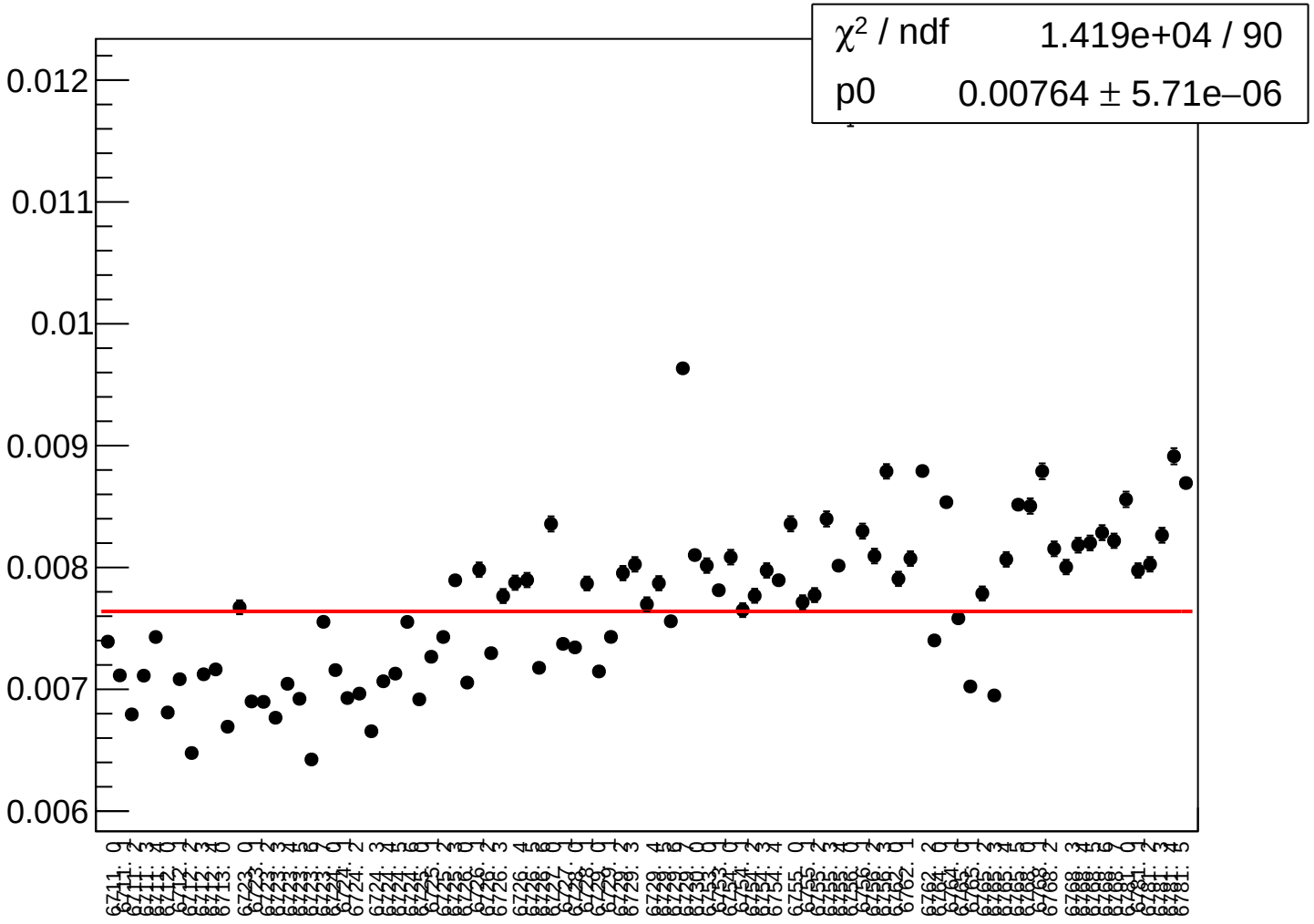

pull1D
Entries 91
Mean −3.458
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

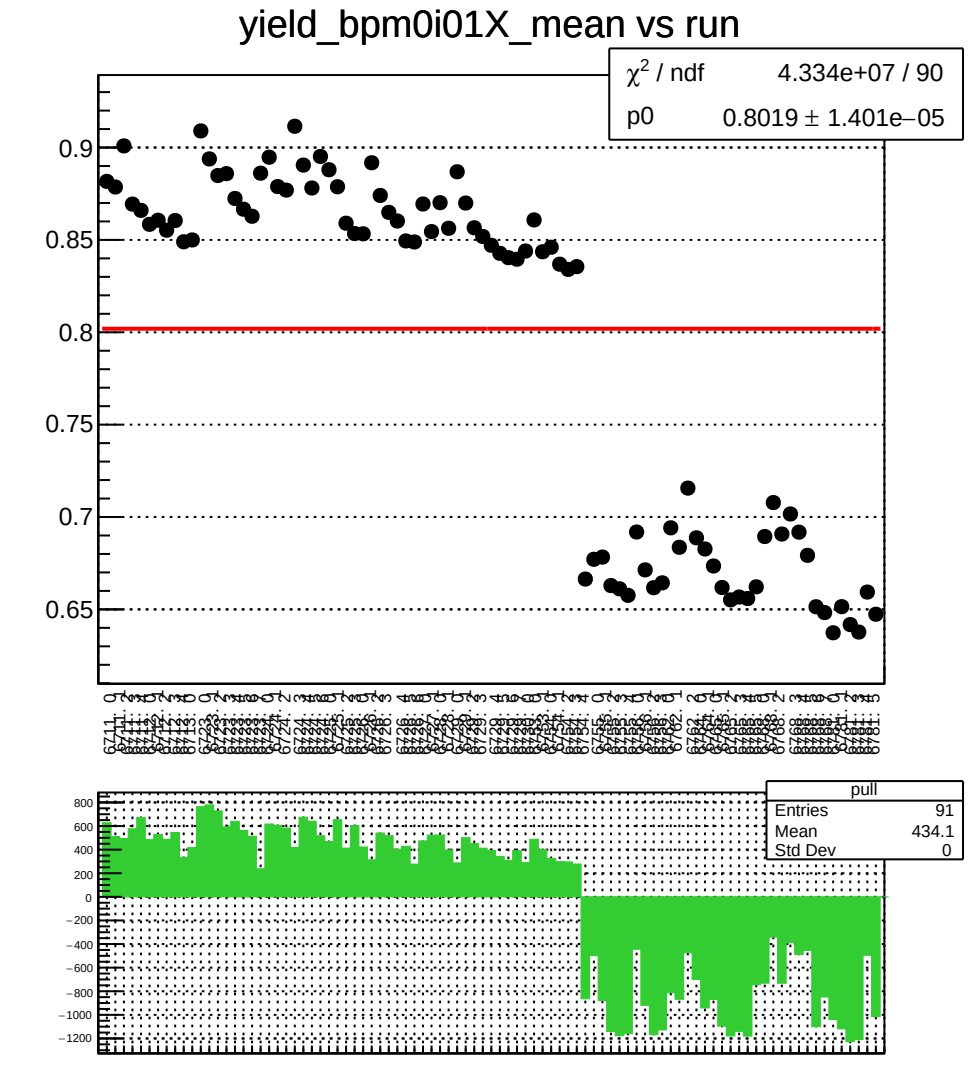

yield_bpm2i02X_rms vs run
χ² / ndf 2.901e+04 / 90
p0 0.009617 ± 7.217e−06
0.016
0.014
0.012
0.01
0.008

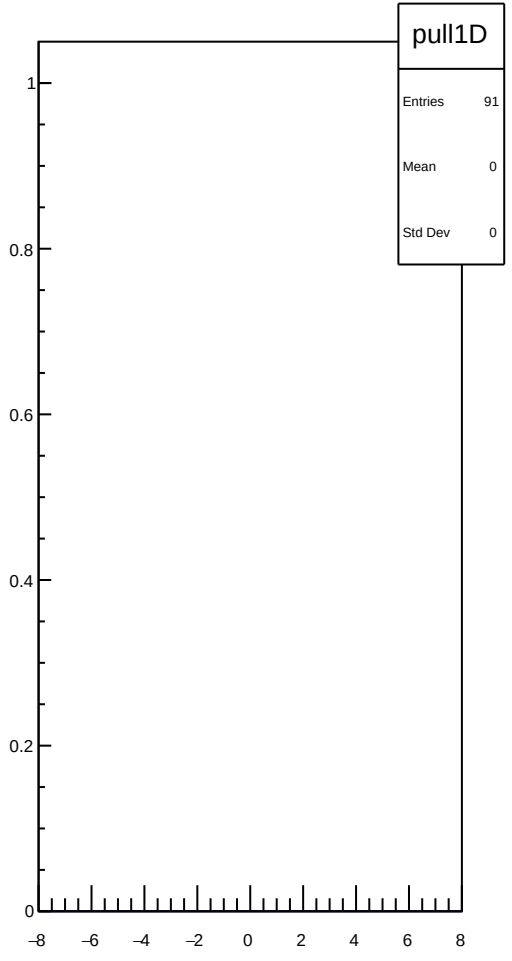

yield_bpm2i02Y_mean vs run
χ² / ndf 1.915e+08 / 90
p0 −2.16 ± 8.075e−06
−1.95
−2
−2.05
−2.1
−2.15
−2.2
−2.25
−2.3
−2.35
−2.4
pull
Entries 91
Mean 539.3
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000

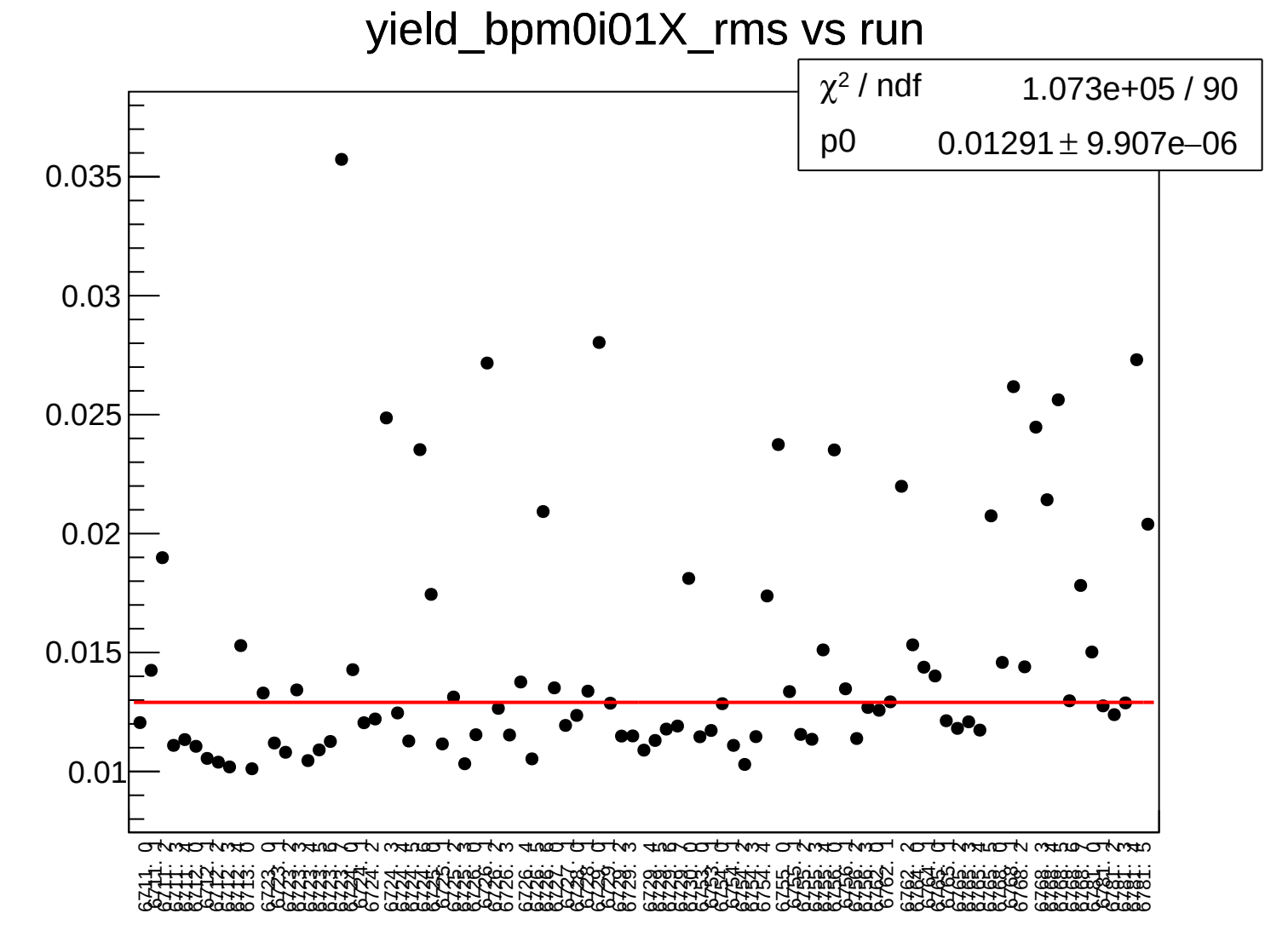

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

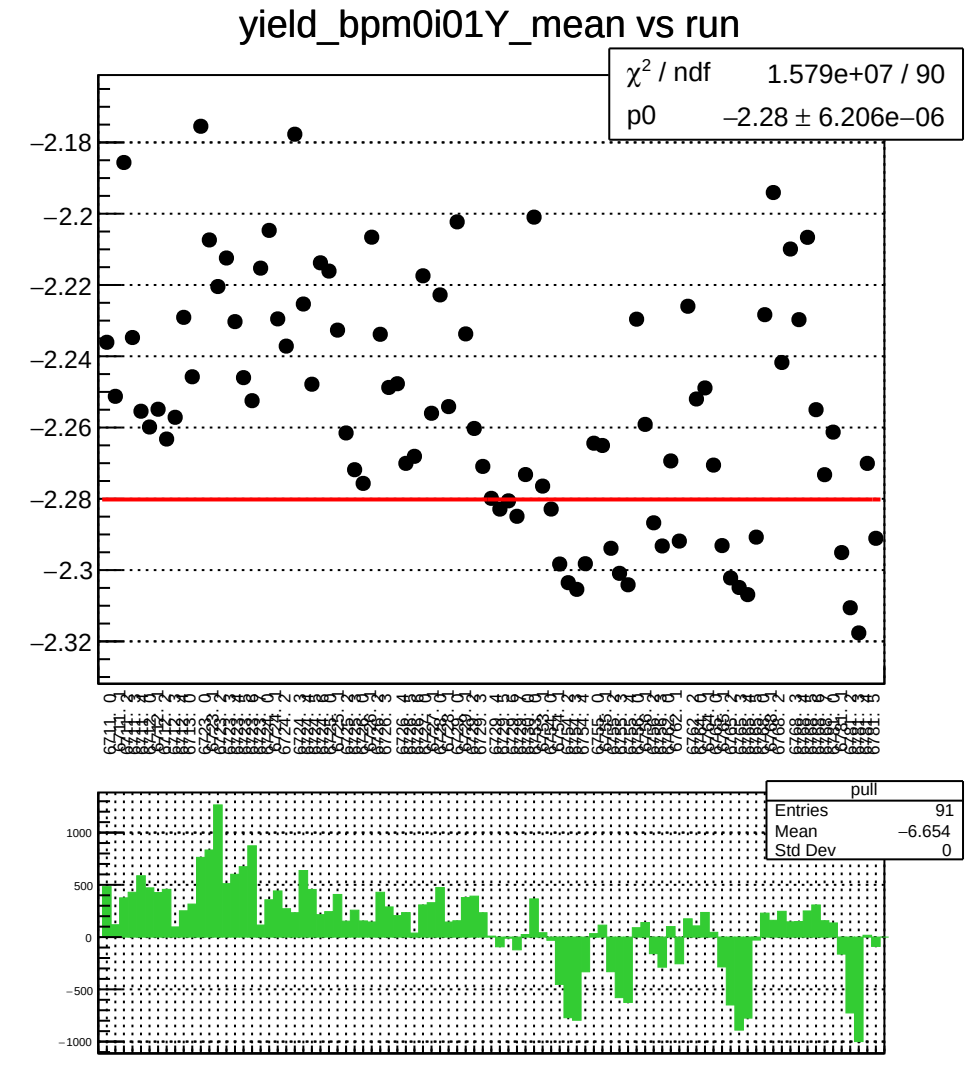
yield_bpm2i02Y_rms vs run

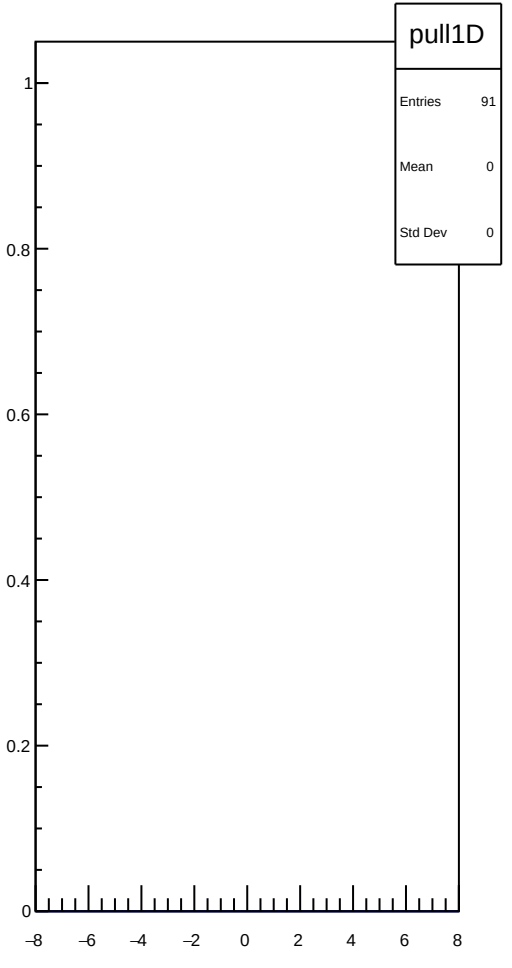


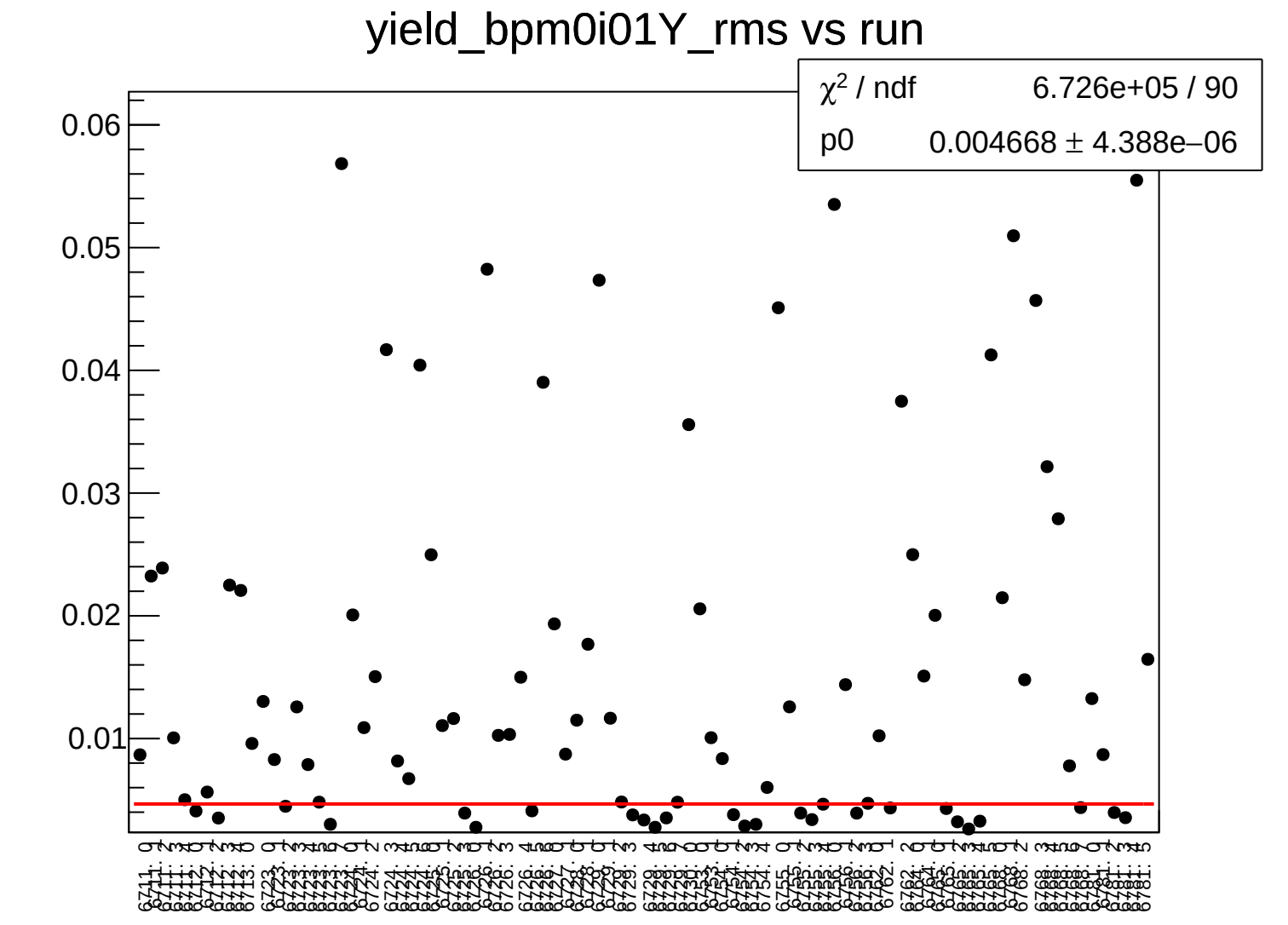

yield_bpm0i01X_mean vs run
χ² / ndf 4.334e+07 / 90
p0 0.8019 ± 1.401e−05
0.9
0.85
0.8
0.75
0.7
0.65
pull
Entries 91
Mean 434.1
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200

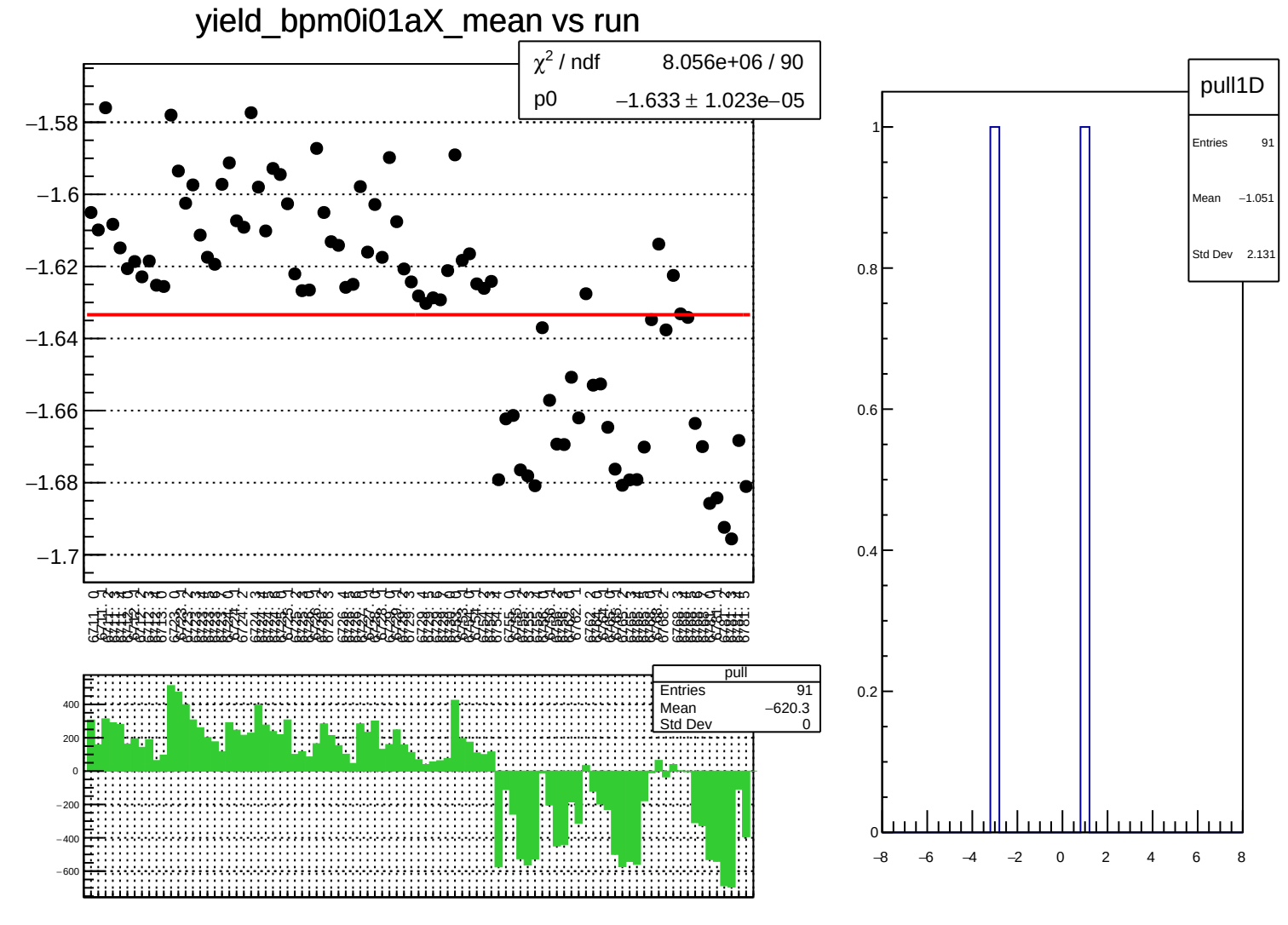

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

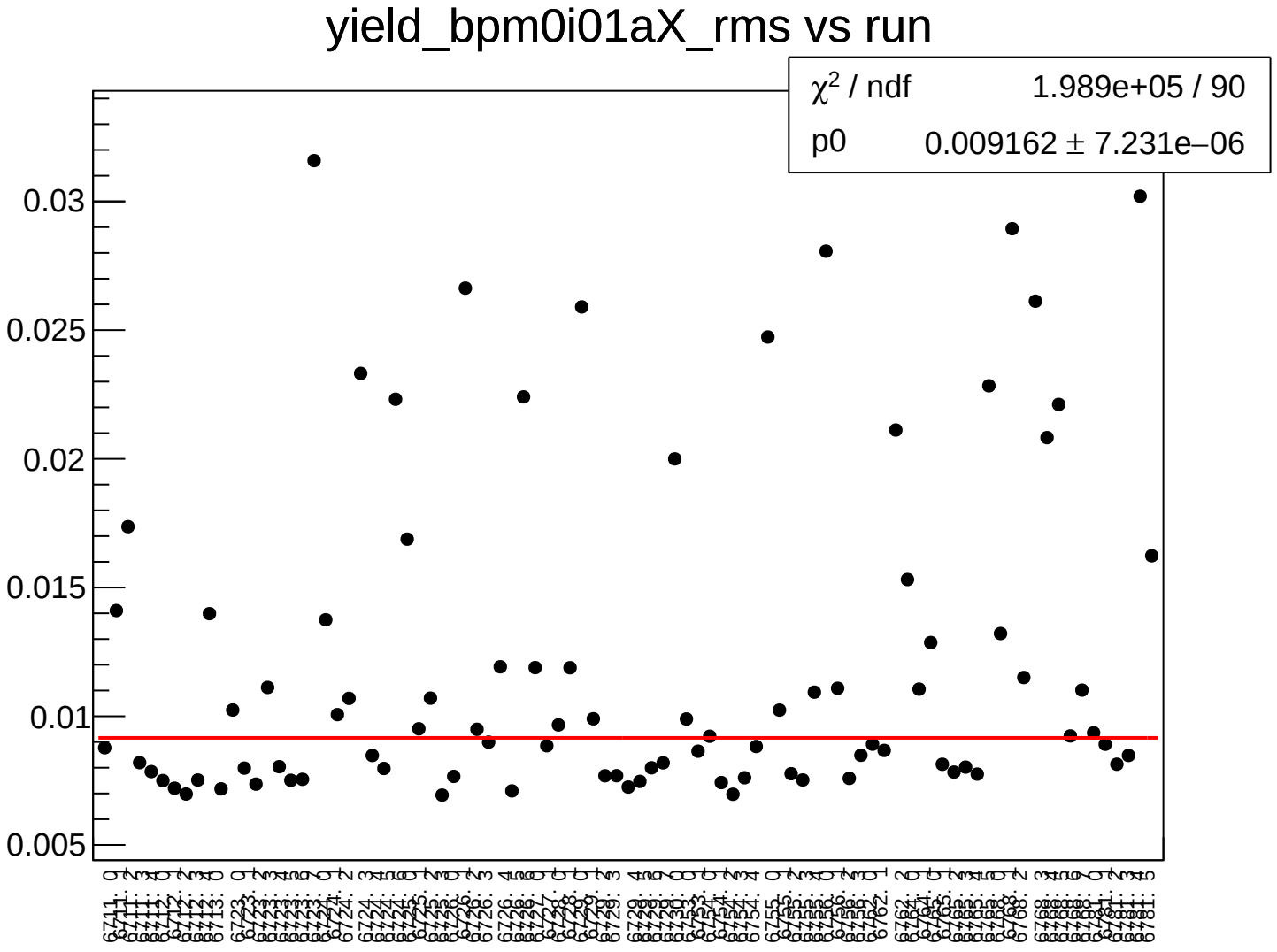

yield_bpm0i01X_rms vs run
χ² / ndf 1.073e+05 / 90
p0 0.01291 ± 9.907e–06
0.035
0.03
0.025
0.02
0.015
0.01

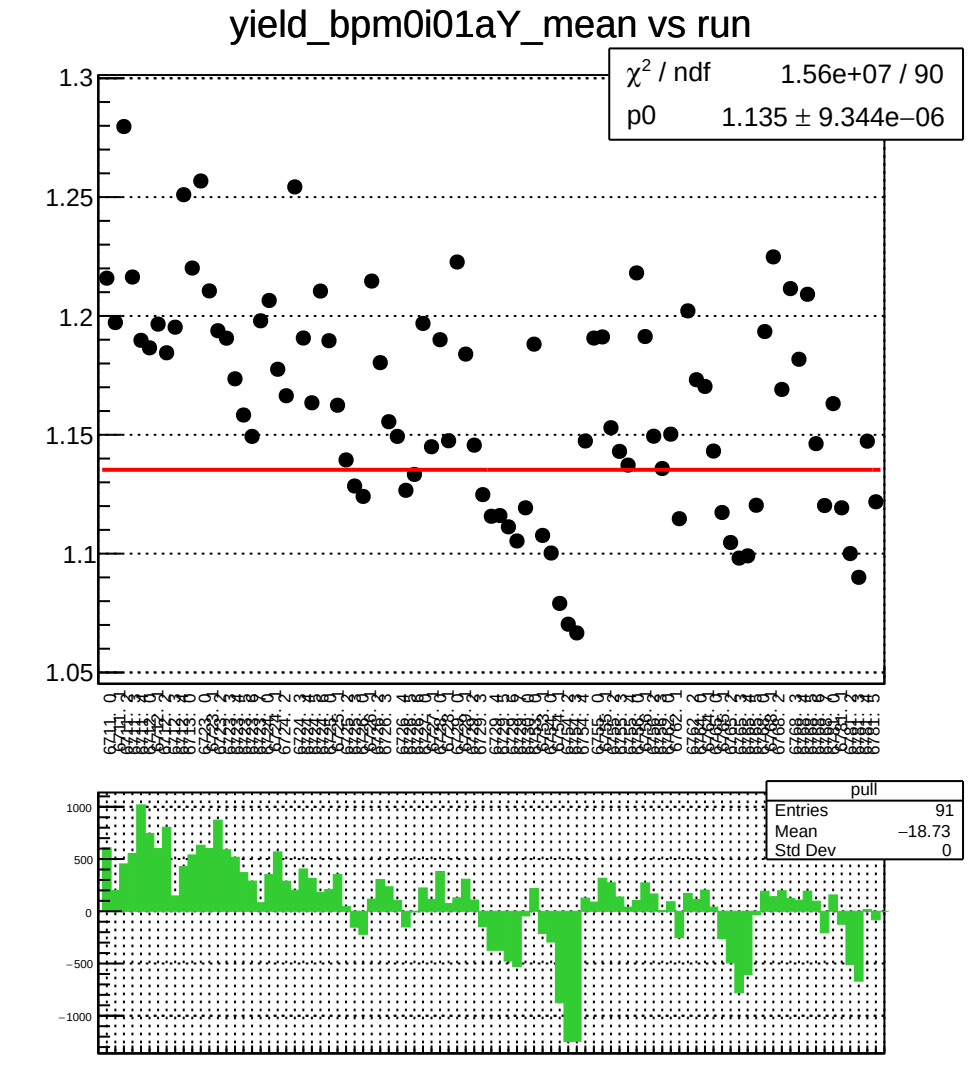

yield_bpm0i01Y_mean vs run
χ² / ndf 1.579e+07 / 90
p0 −2.28 ± 6.206e−06
−2.18
−2.2
−2.22
−2.24
−2.26
−2.28
−2.3
−2.32
pull
Entries 91
Mean −6.654
Std Dev 0
1000
500
0
−500
−1000

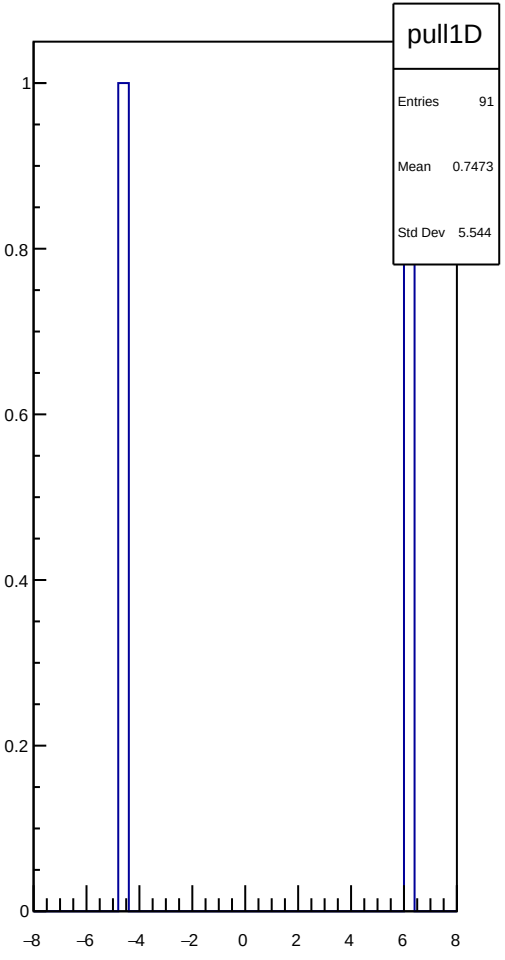

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

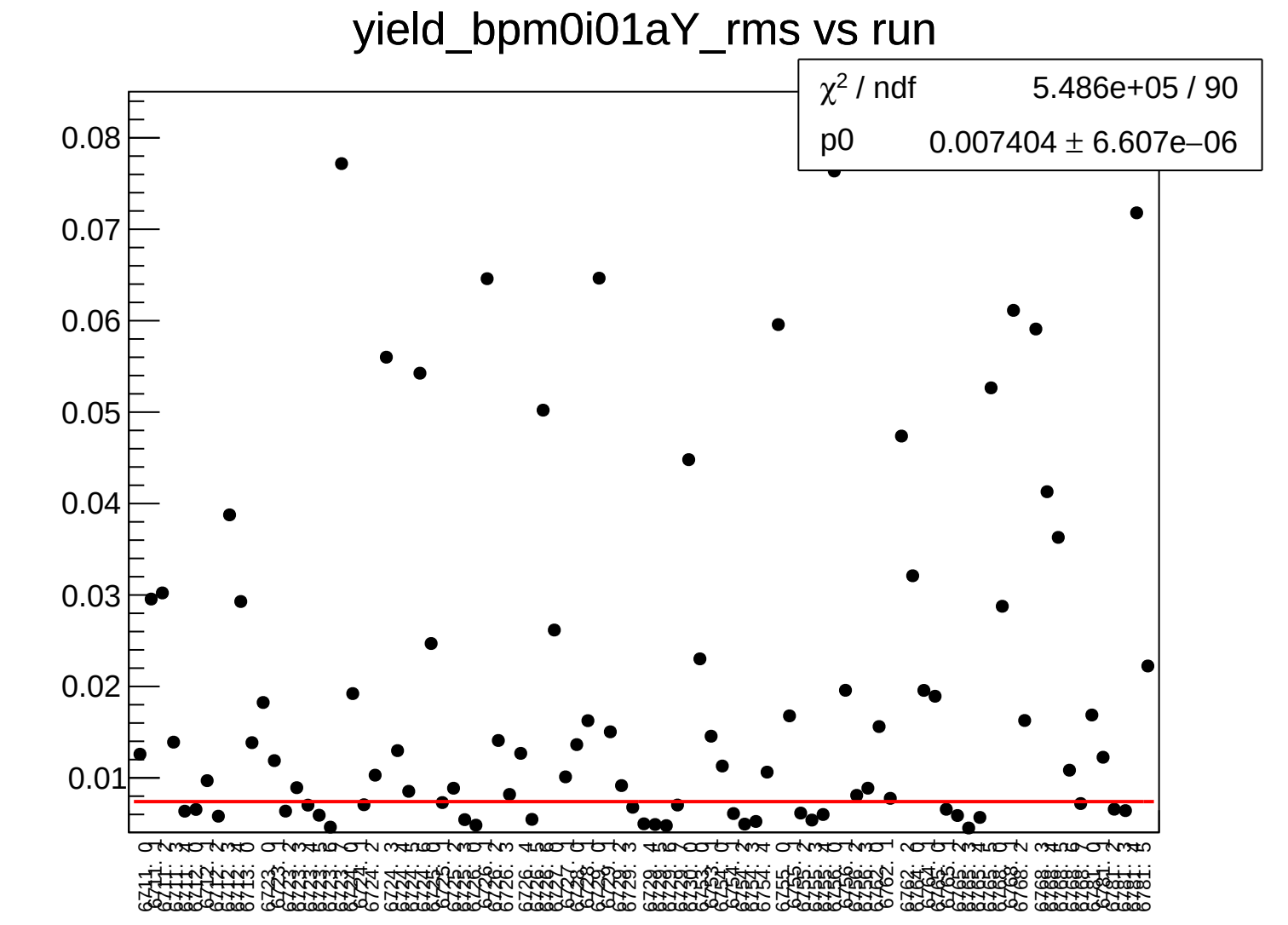

yield_bpm0i01Y_rms vs run
χ^2 / ndf 6.726e+05 / 90
p0 0.004668 ± 4.388e−06
0.06
0.05
0.04
0.03
0.02
0.01

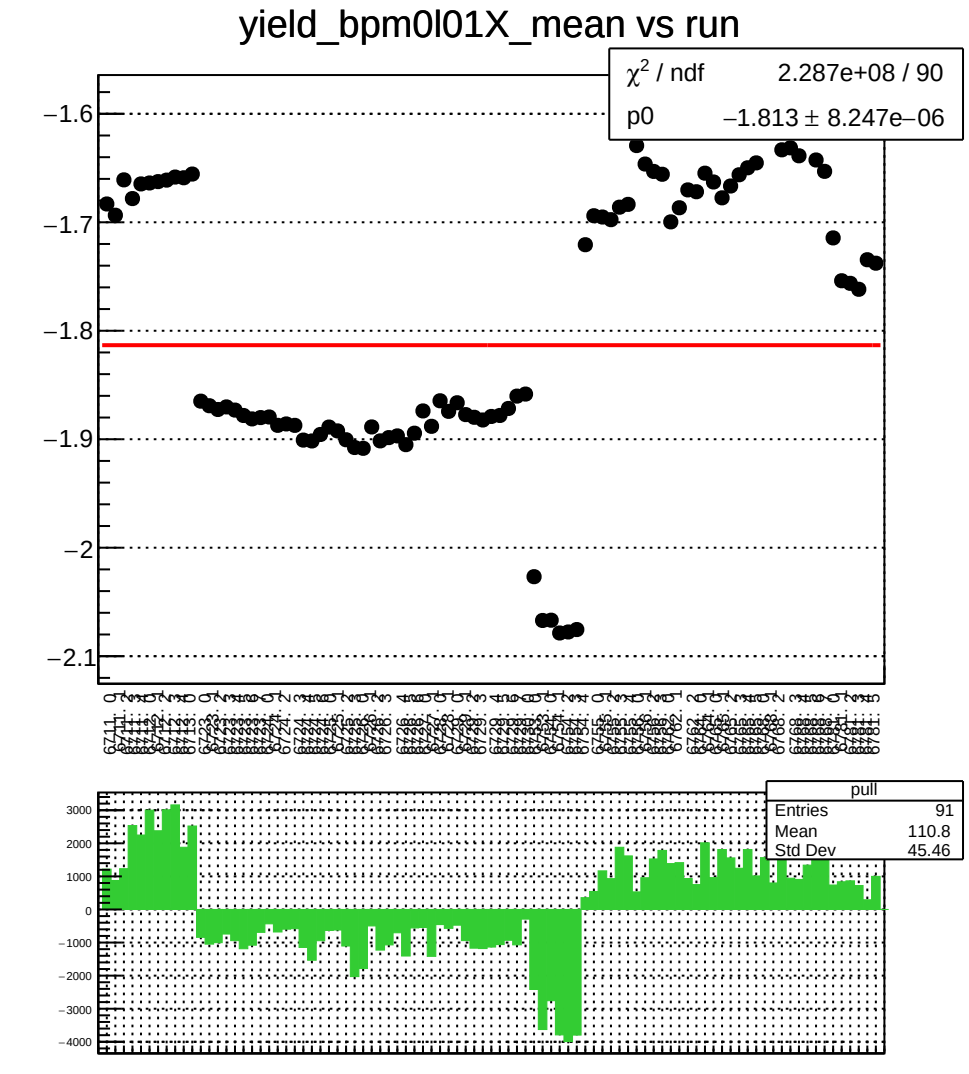

yield_bpm0i01aX_mean vs run
χ² / ndf 8.056e+06 / 90
p0 −1.633 ± 1.023e−05
−1.58
−1.6
−1.62
−1.64
−1.66
−1.68
−1.7
pull
Entries 91
Mean −620.3
Std Dev 0
400
200
0
−200
−400
−600
pull1D
Entries 91
Mean −1.051
Std Dev 2.131
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

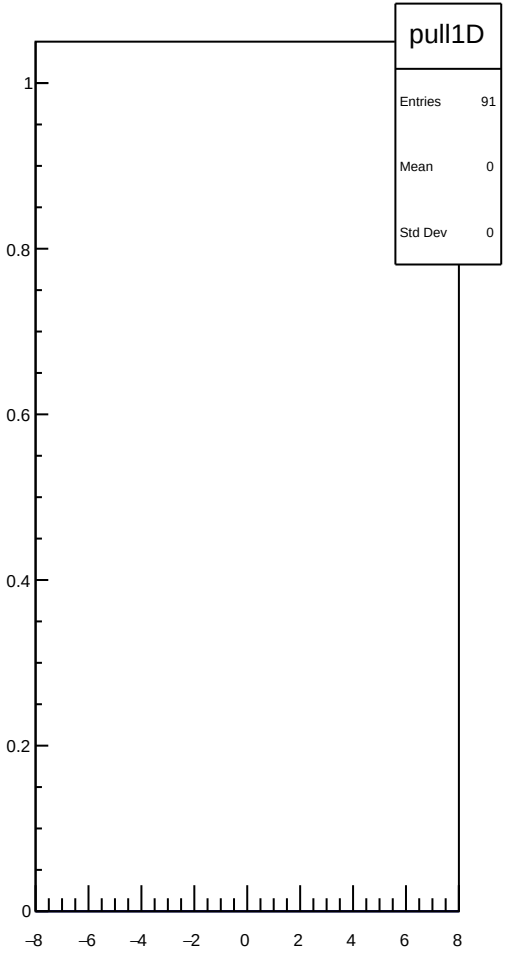

yield_bpm0i01aX_rms vs run
χ² / ndf 1.989e+05 / 90
p0 0.009162 ± 7.231e−06
0.03
0.025
0.02
0.015
0.01
0.005

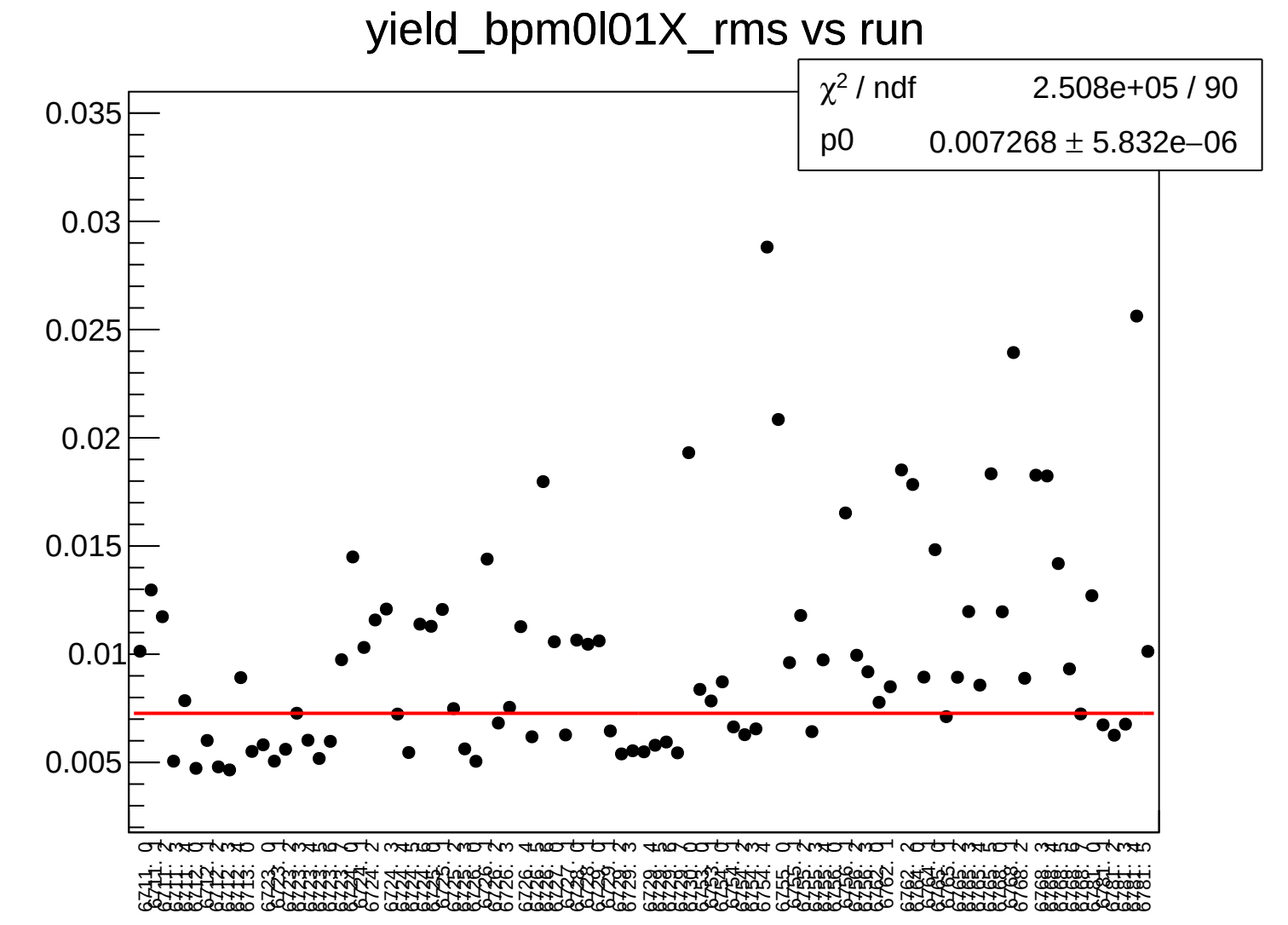

yield_bpm0i01aY_mean vs run
χ² / ndf 1.56e+07 / 90
p0 1.135 ± 9.344e−06
1.3
1.25
1.2
1.15
1.1
1.05
pull
Entries 91
Mean −18.73
Std Dev 0
1000
500
0
−500
−1000

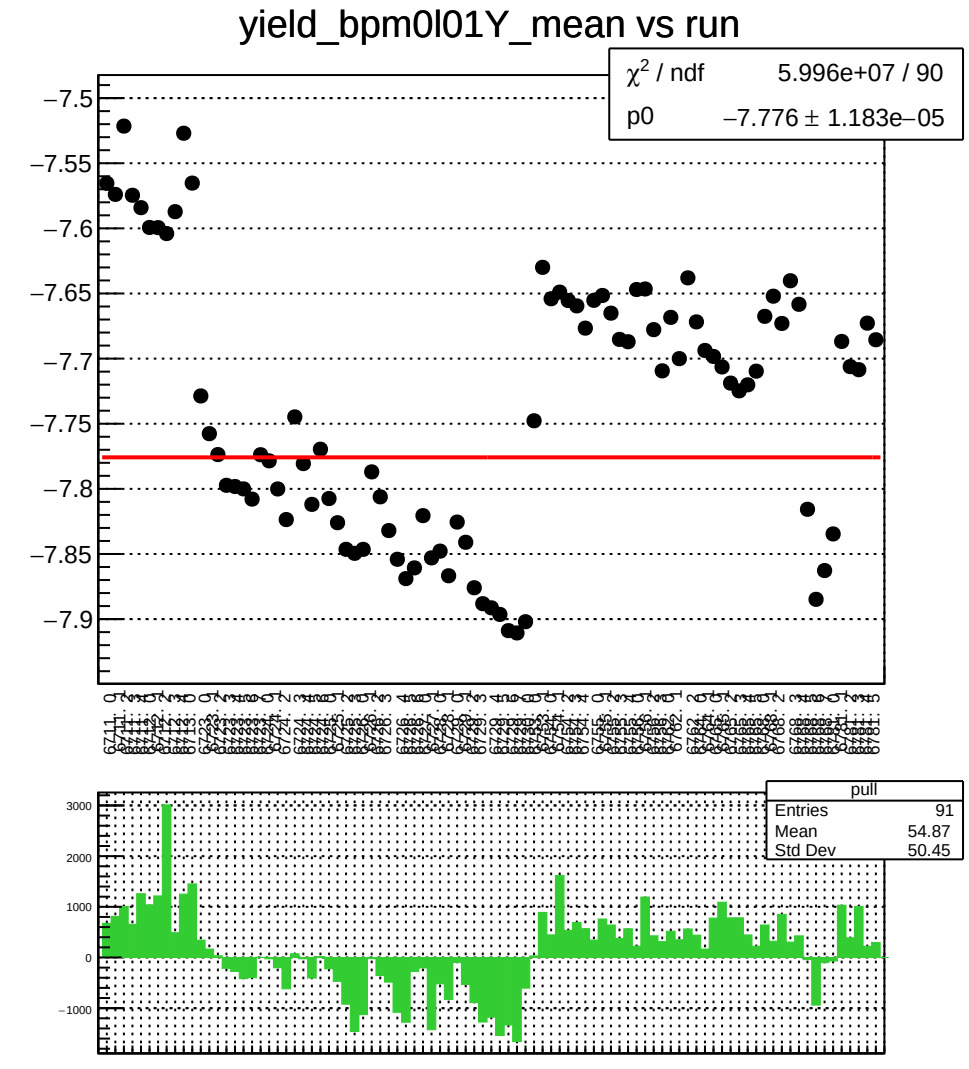

pull1D
Entries 91
Mean 0.7473
Std Dev 5.544
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

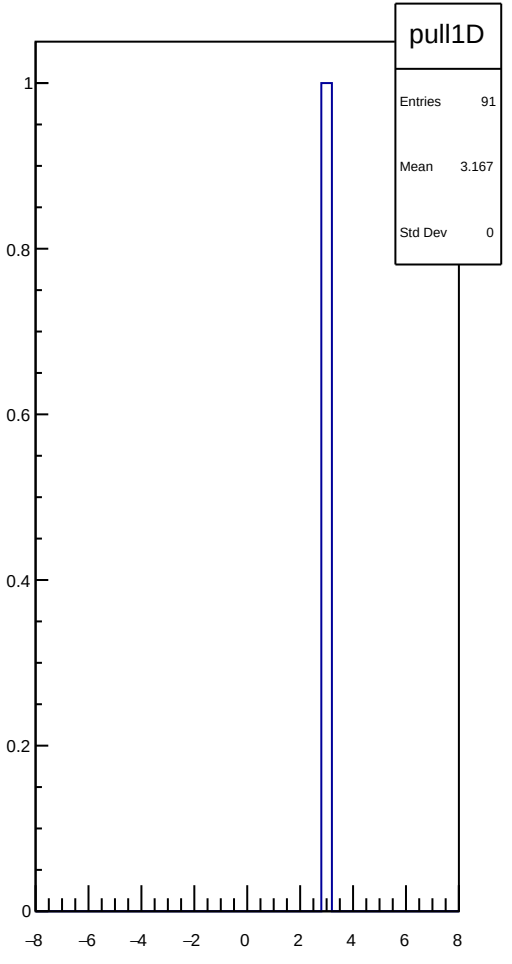

yield_bpm0i01aY_rms vs run
χ^2 / ndf 5.486e+05 / 90
p0 0.007404 ± 6.607e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

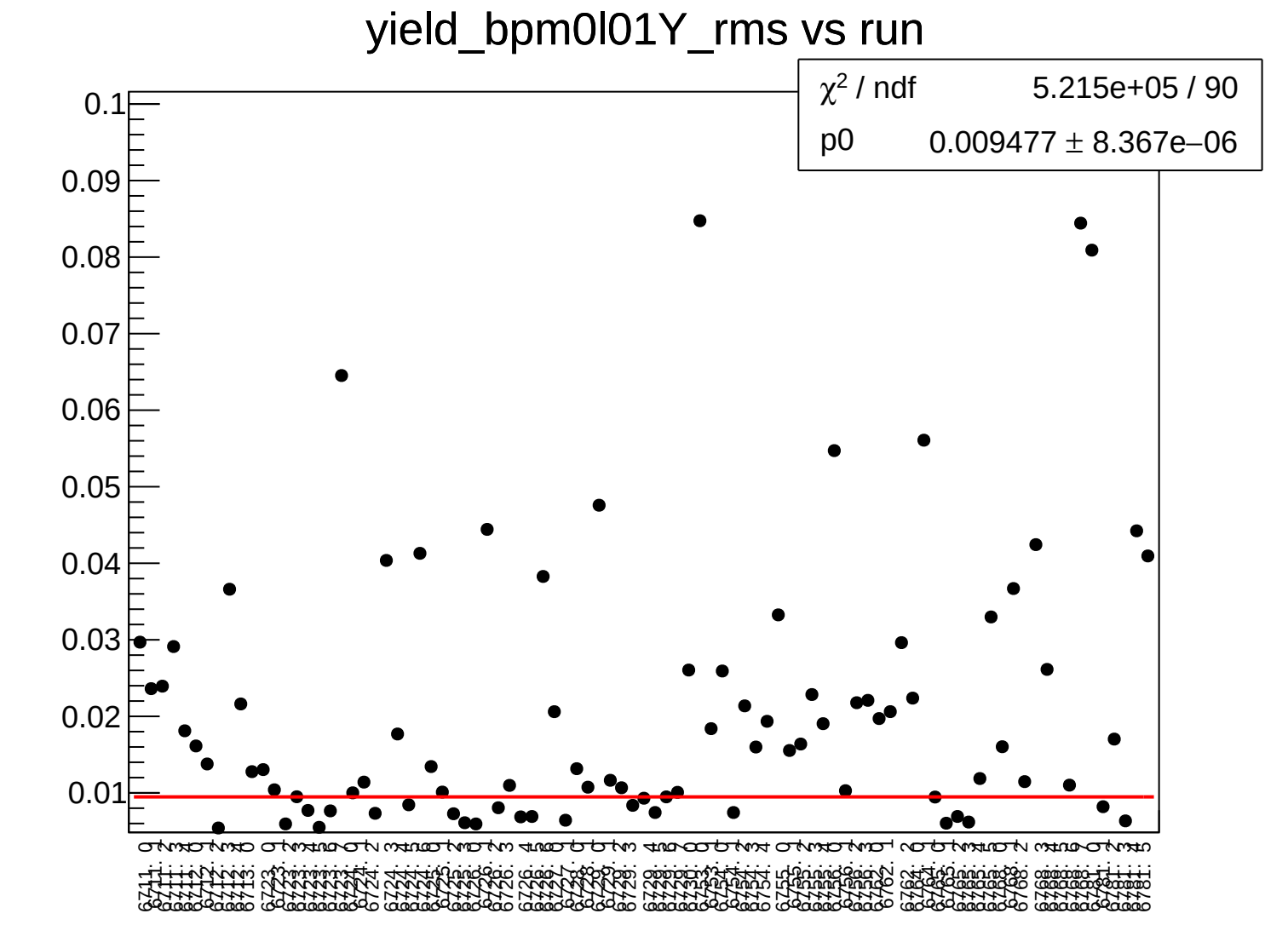

yield_bpm0l01X_mean vs run
χ² / ndf 2.287e+08 / 90
p0 −1.813 ± 8.247e−06
−1.6
−1.7
−1.8
−1.9
−2
−2.1
pull
Entries 91
Mean 110.8
Std Dev 45.46
3000
2000
1000
0
−1000
−2000
−3000
−4000

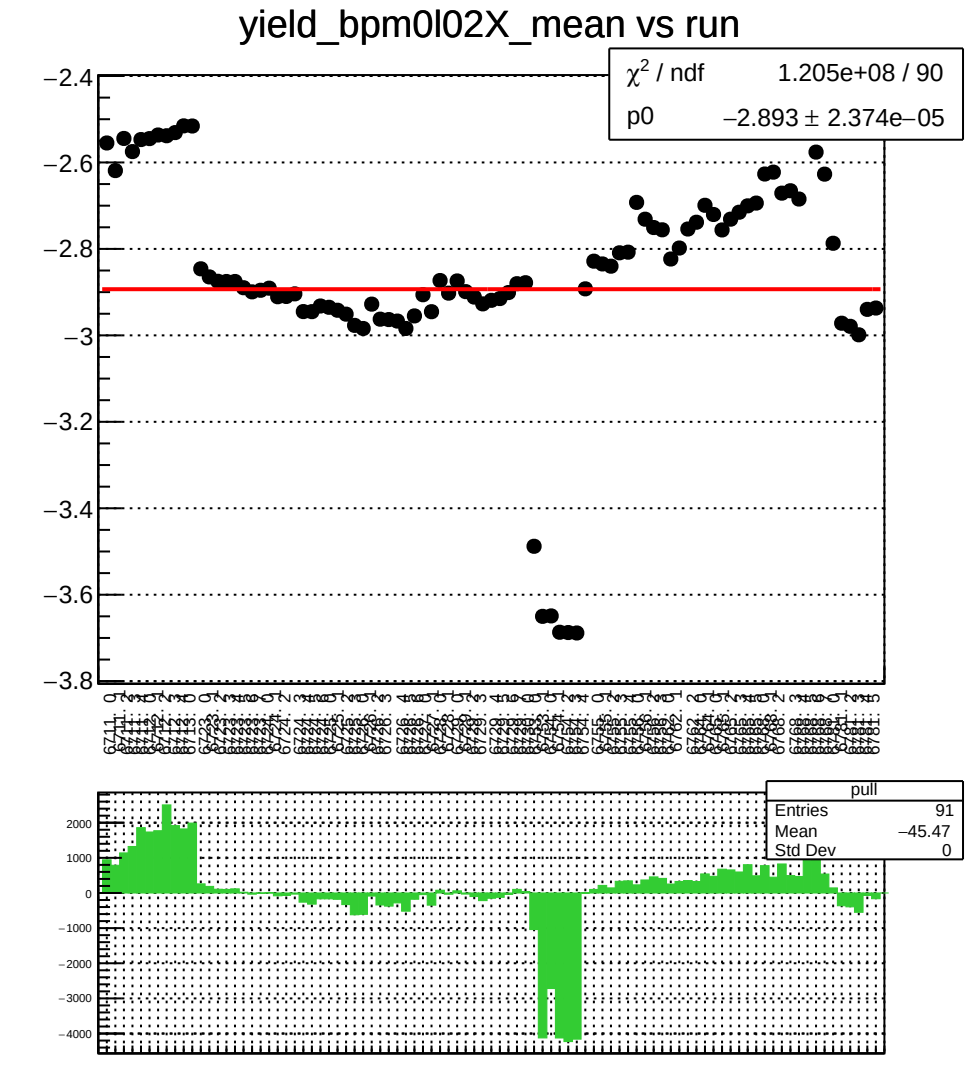

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

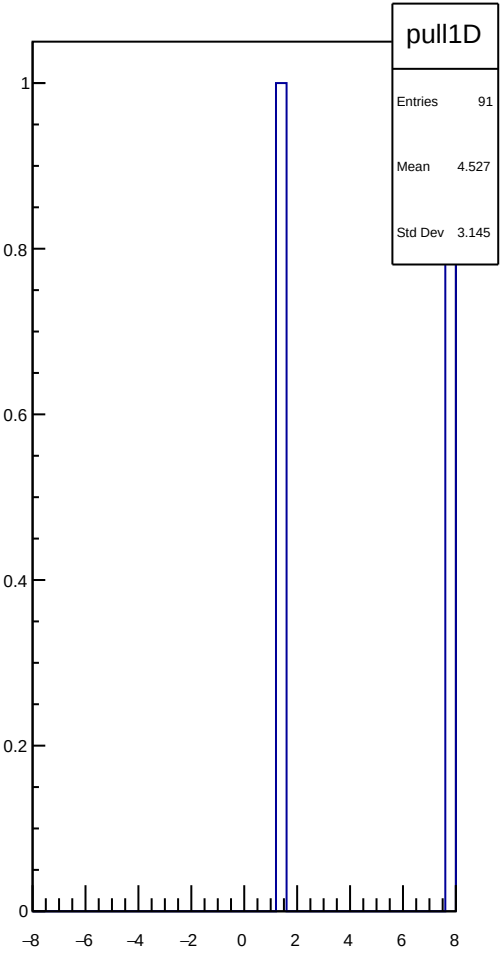

yield_bpm0l01X_rms vs run
χ^2 / ndf 2.508e+05 / 90
p0 0.007268 ± 5.832e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

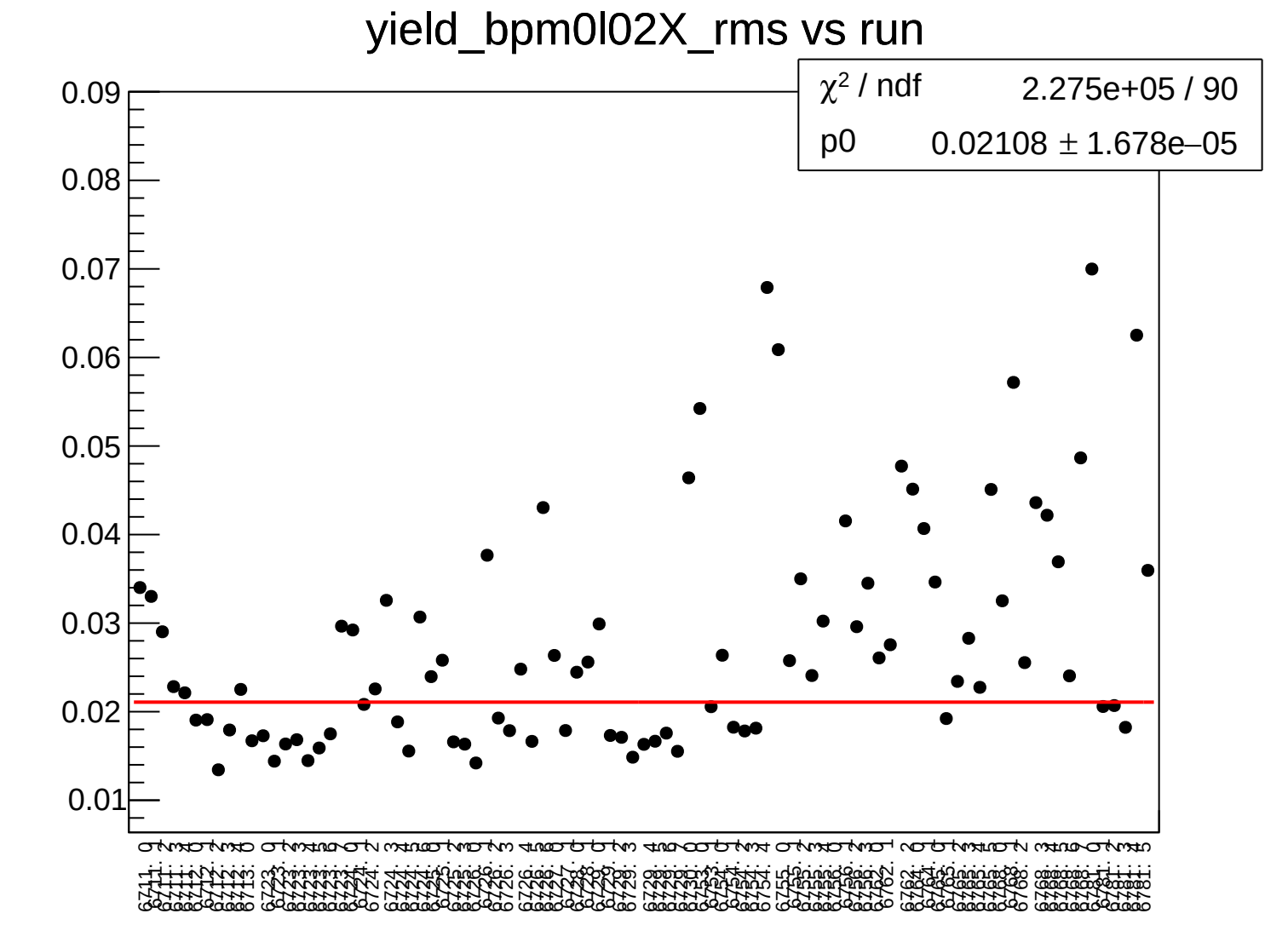

yield_bpm0l01Y_mean vs run
χ² / ndf 5.996e+07 / 90
p0 −7.776 ± 1.183e−05
−7.5
−7.55
−7.6
−7.65
−7.7
−7.75
−7.8
−7.85
−7.9
pull
Entries 91
Mean 54.87
Std Dev 50.45
3000
2000
1000
0
−1000

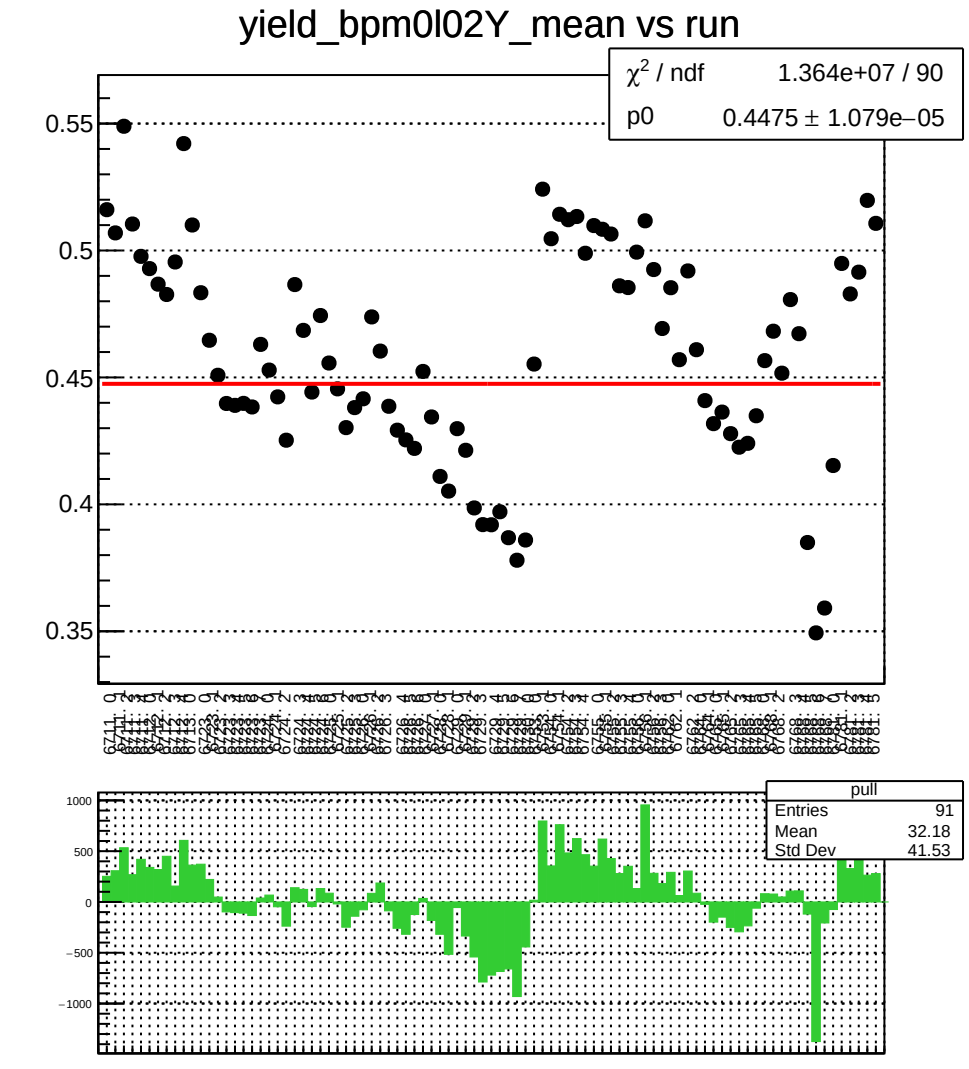

pull1D
Entries 91
Mean 3.167
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

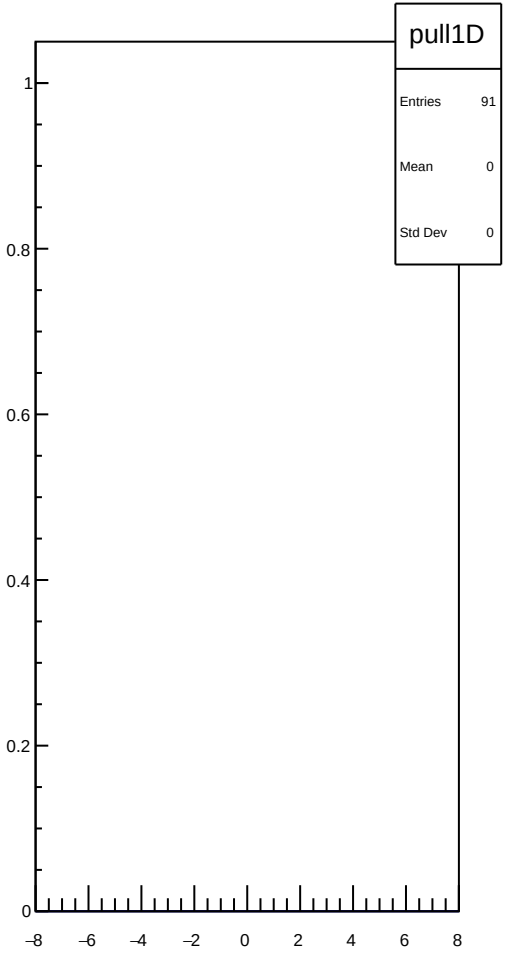

yield_bpm0l01Y_rms vs run
χ^2 / ndf 5.215e+05 / 90
p0 0.009477 ± 8.367e−06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

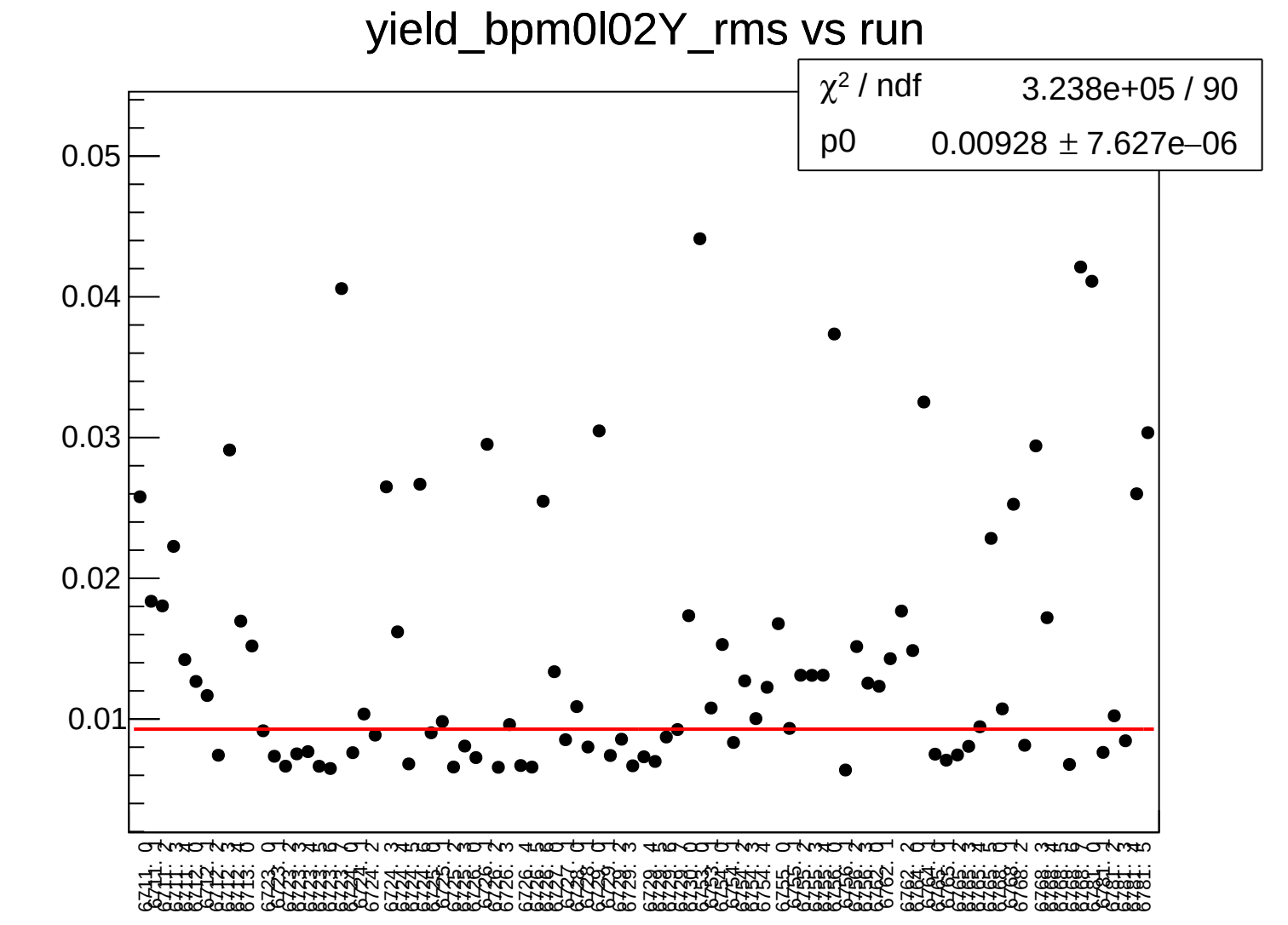

yield_bpm0l02X_mean vs run
χ² / ndf 1.205e+08 / 90
p0 −2.893 ± 2.374e−05
pull
Entries 91
Mean −45.47
Std Dev 0

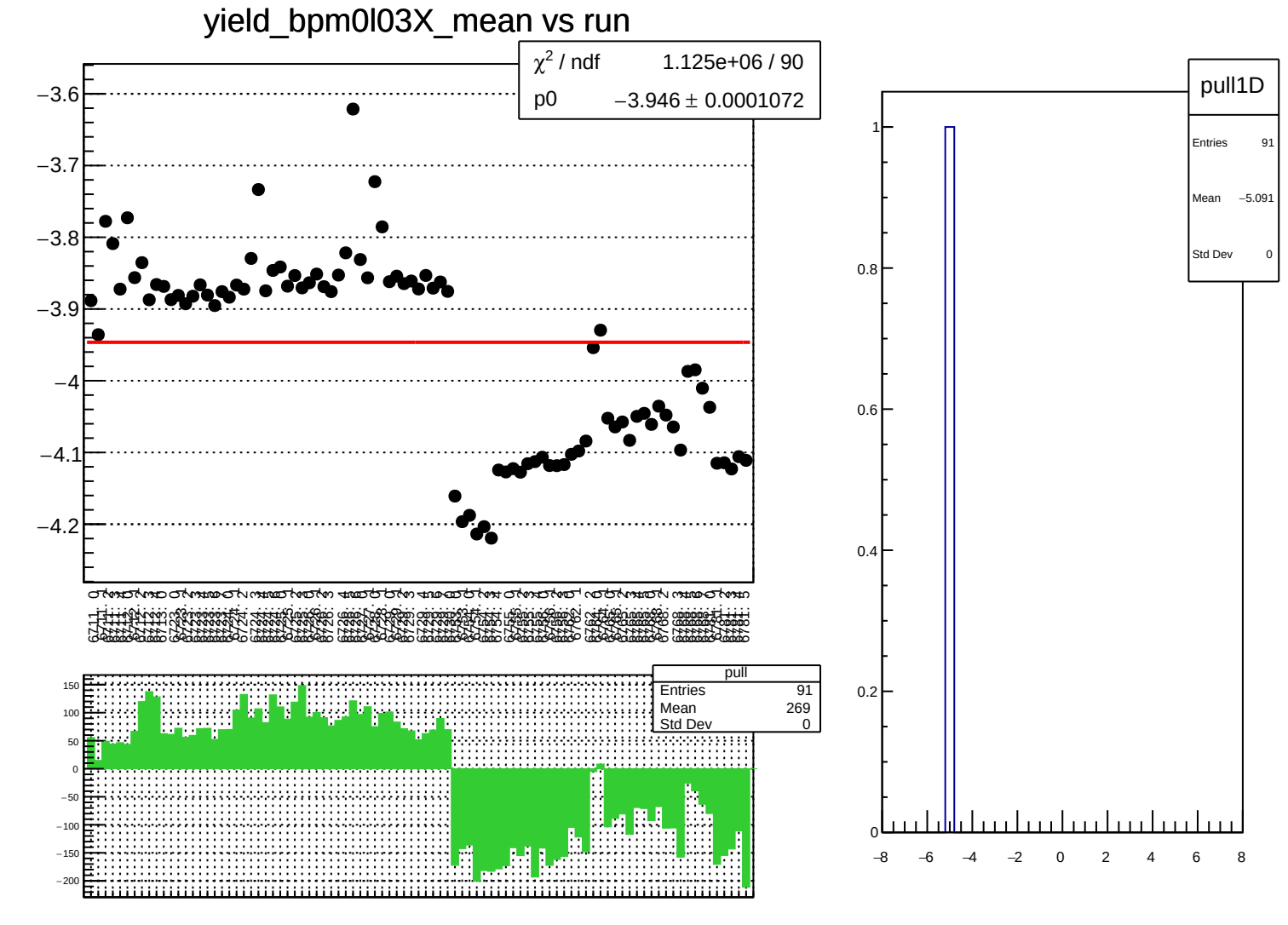

pull1D
Entries 91
Mean 4.527
Std Dev 3.145

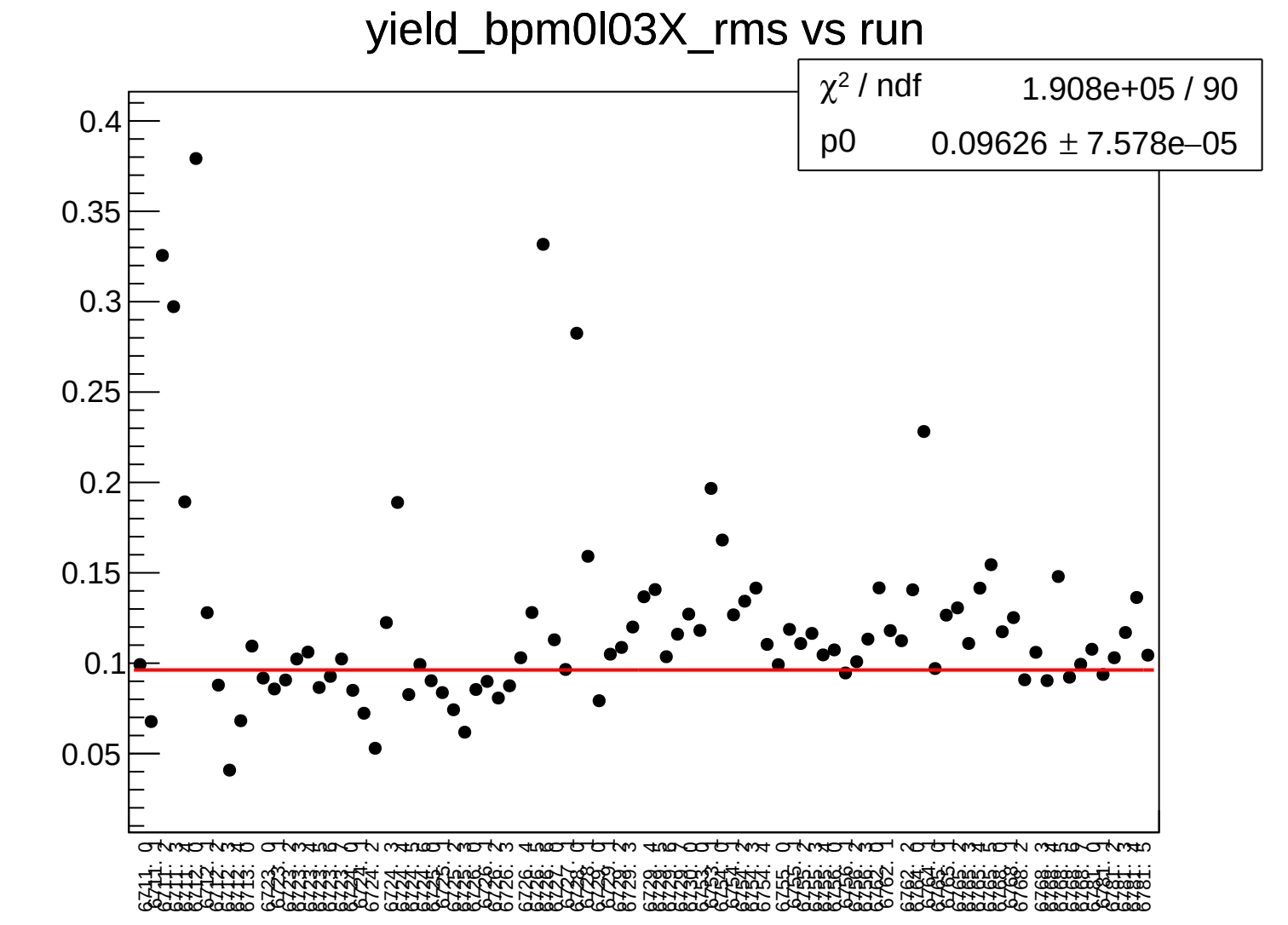

yield_bpm0l02X_rms vs run
χ² / ndf 2.275e+05 / 90
p0 0.02108 ± 1.678e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

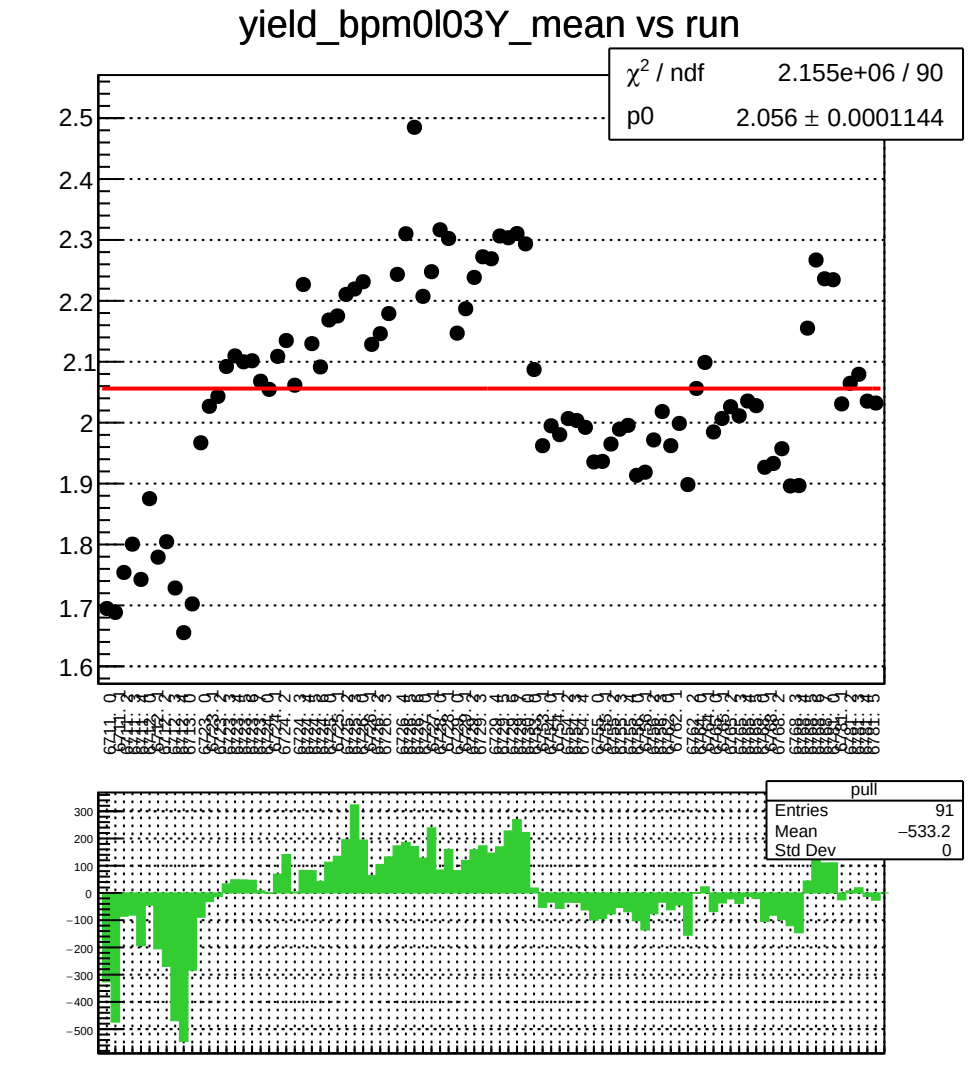

yield_bpm0l02Y_mean vs run
χ² / ndf 1.364e+07 / 90
p0 0.4475 ± 1.079e−05
0.55
0.5
0.45
0.4
0.35
pull
Entries 91
Mean 32.18
Std Dev 41.53
1000
500
0
−500
−1000

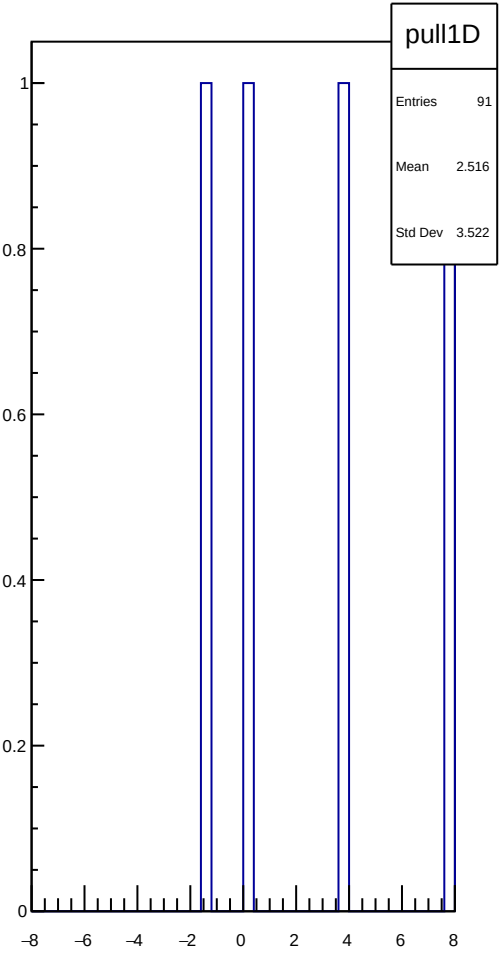

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

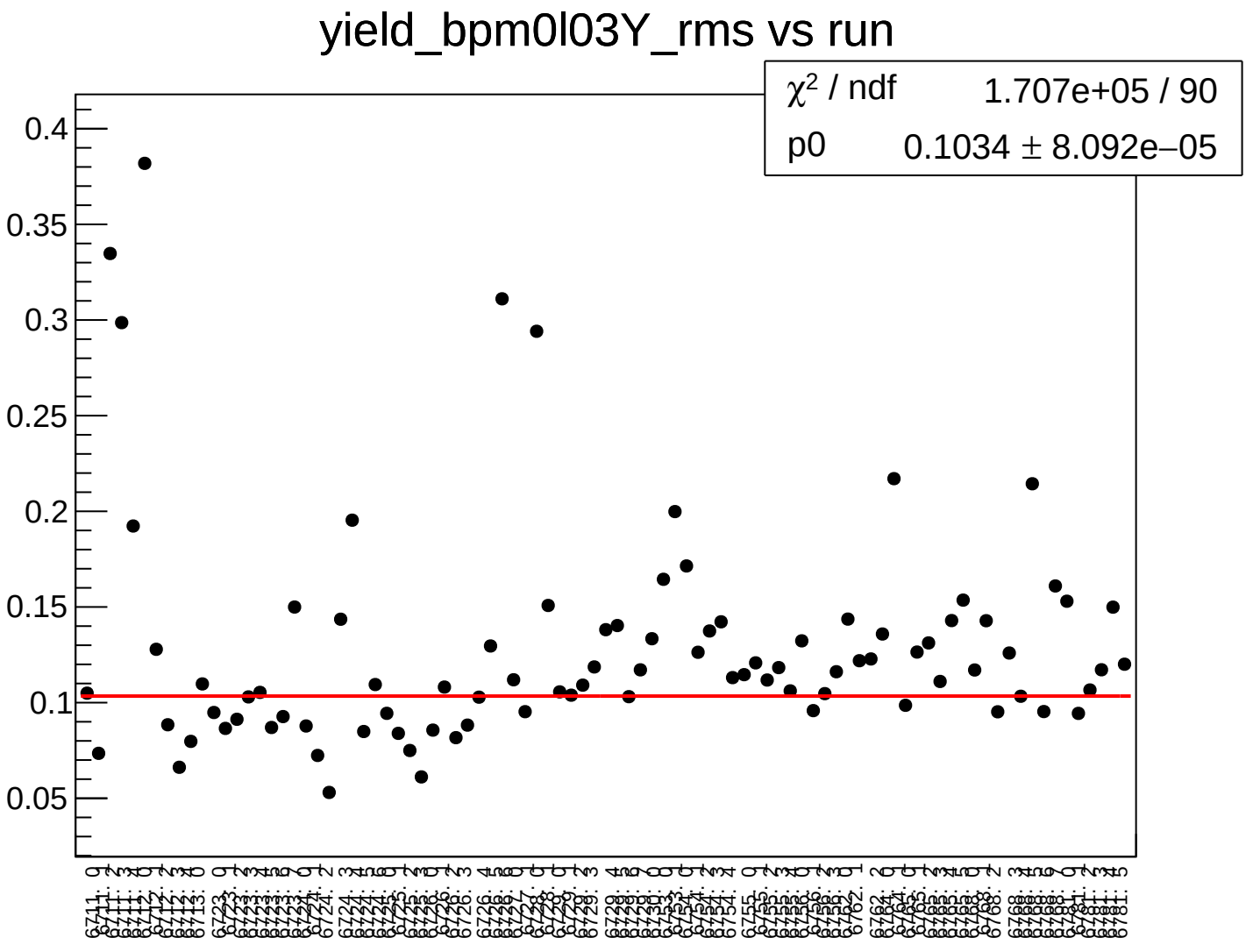

yield_bpm0l02Y_rms vs run
χ² / ndf 3.238e+05 / 90
p0 0.00928 ± 7.627e–06
0.05
0.04
0.03
0.02
0.01

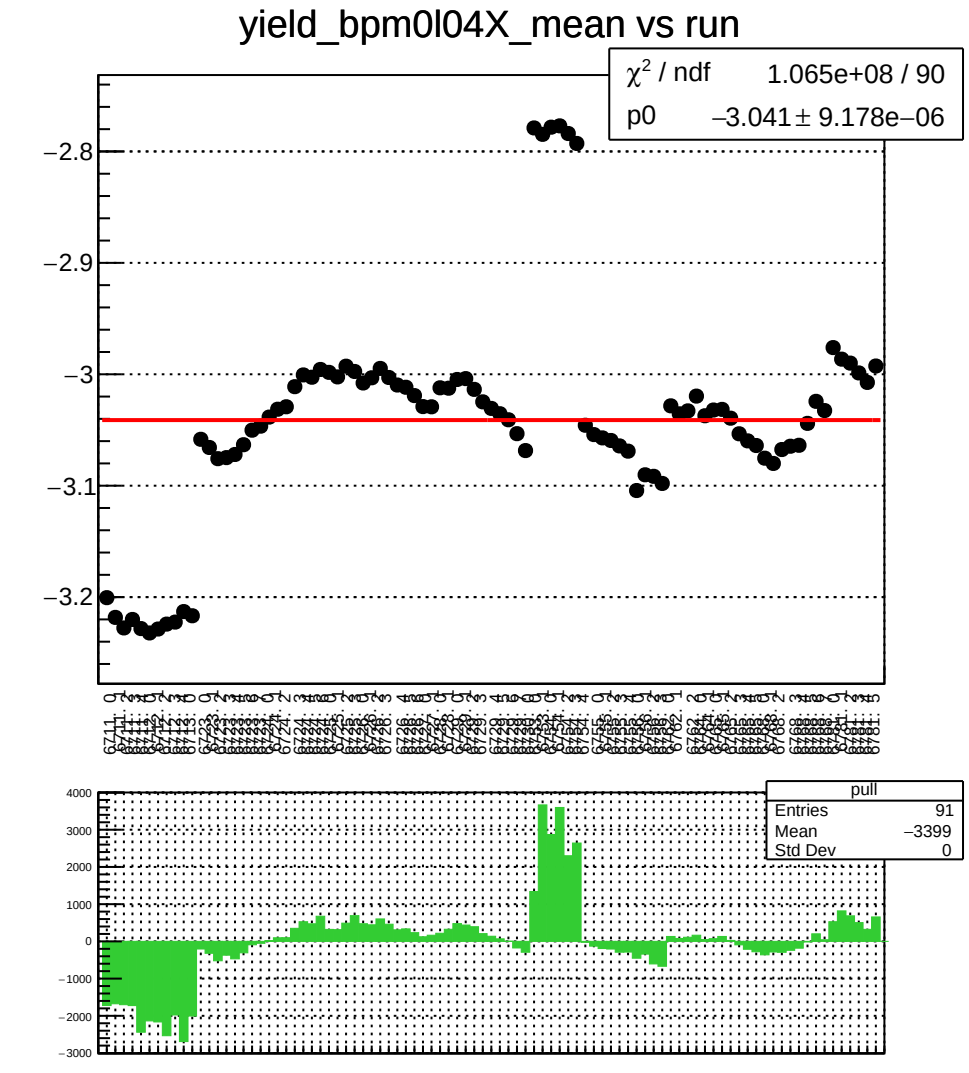

yield_bpm0l03X_mean vs run
χ² / ndf 1.125e+06 / 90
p0 −3.946 ± 0.0001072
−3.6
−3.7
−3.8
−3.9
−4
−4.1
−4.2
pull
Entries 91
Mean 269
Std Dev 0
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 91
Mean −5.091
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

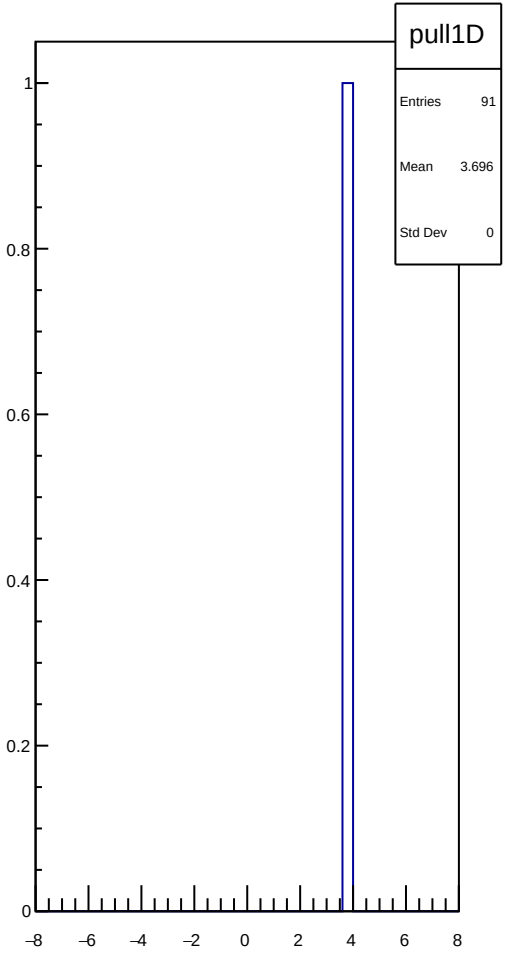

yield_bpm0l03X_rms vs run
χ² / ndf 1.908e+05 / 90
p0 0.09626 ± 7.578e–05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

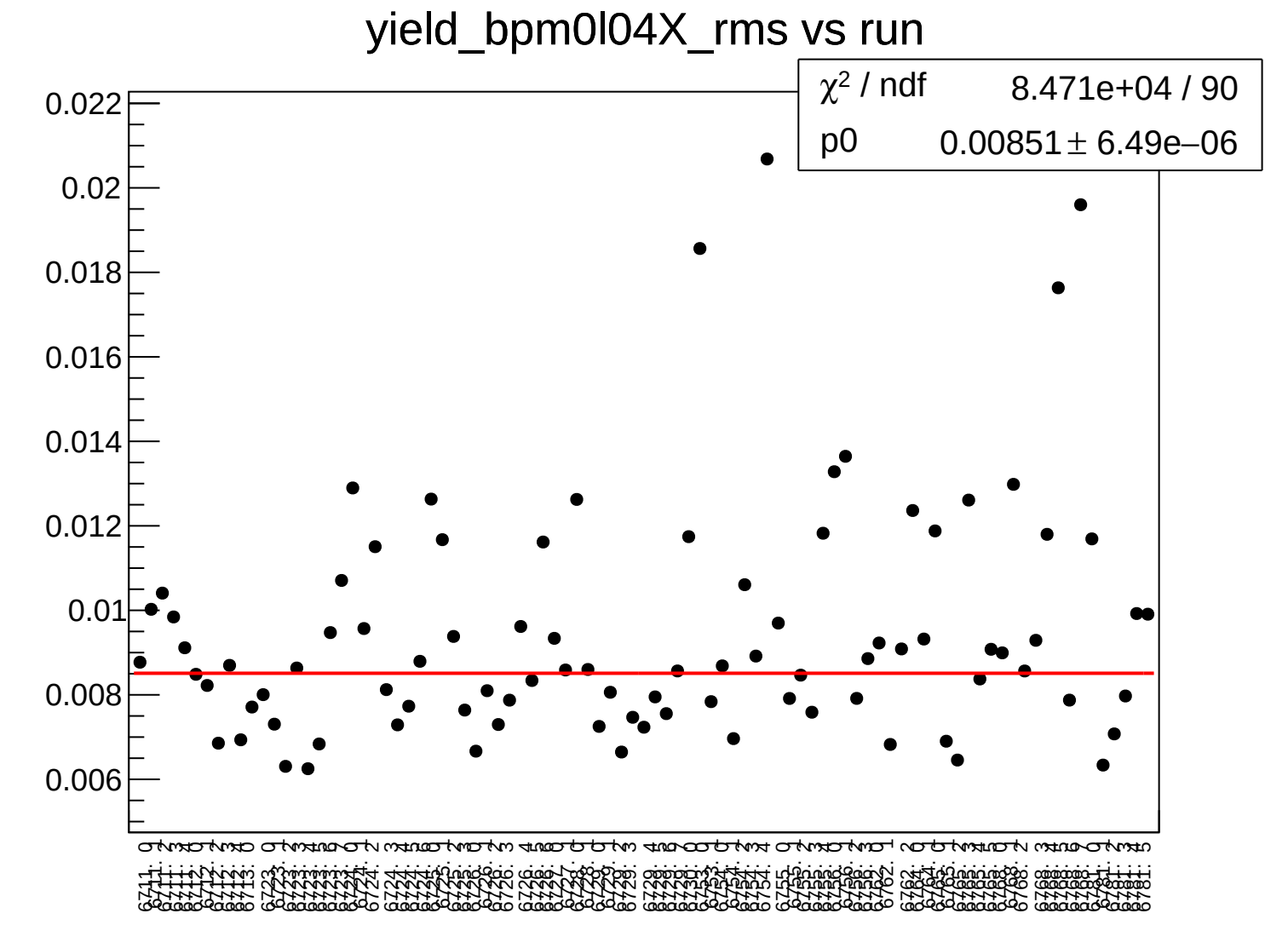

yield_bpm0l03Y_mean vs run
χ² / ndf 2.155e+06 / 90
p0 2.056 ± 0.0001144
pull
Entries 91
Mean −533.2
Std Dev 0

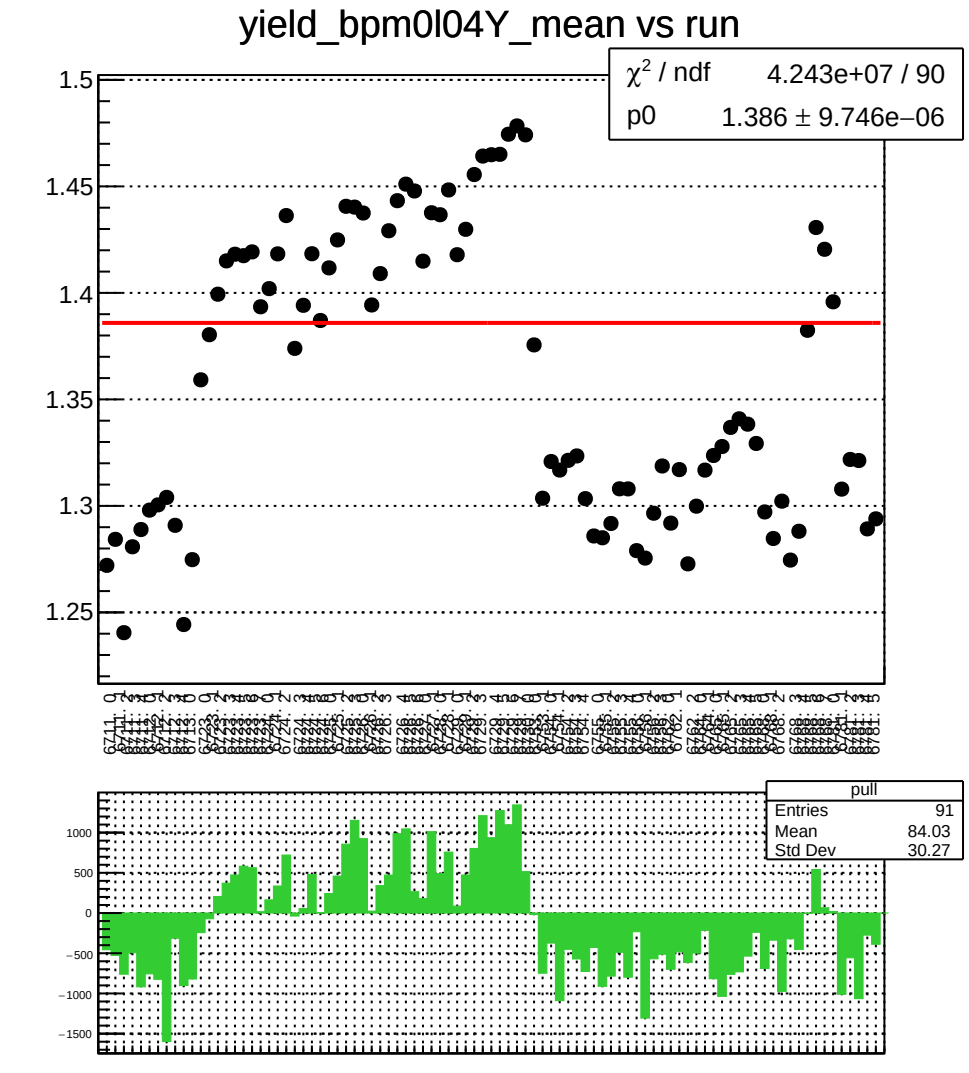

pull1D
Entries 91
Mean 2.516
Std Dev 3.522

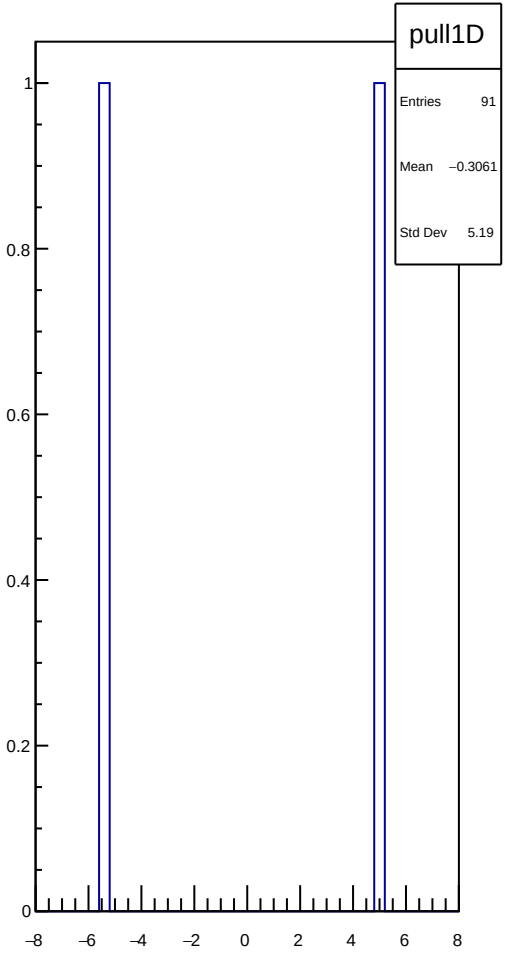

yield_bpm0l03Y_rms vs run
χ² / ndf 1.707e+05 / 90
p0 0.1034 ± 8.092e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

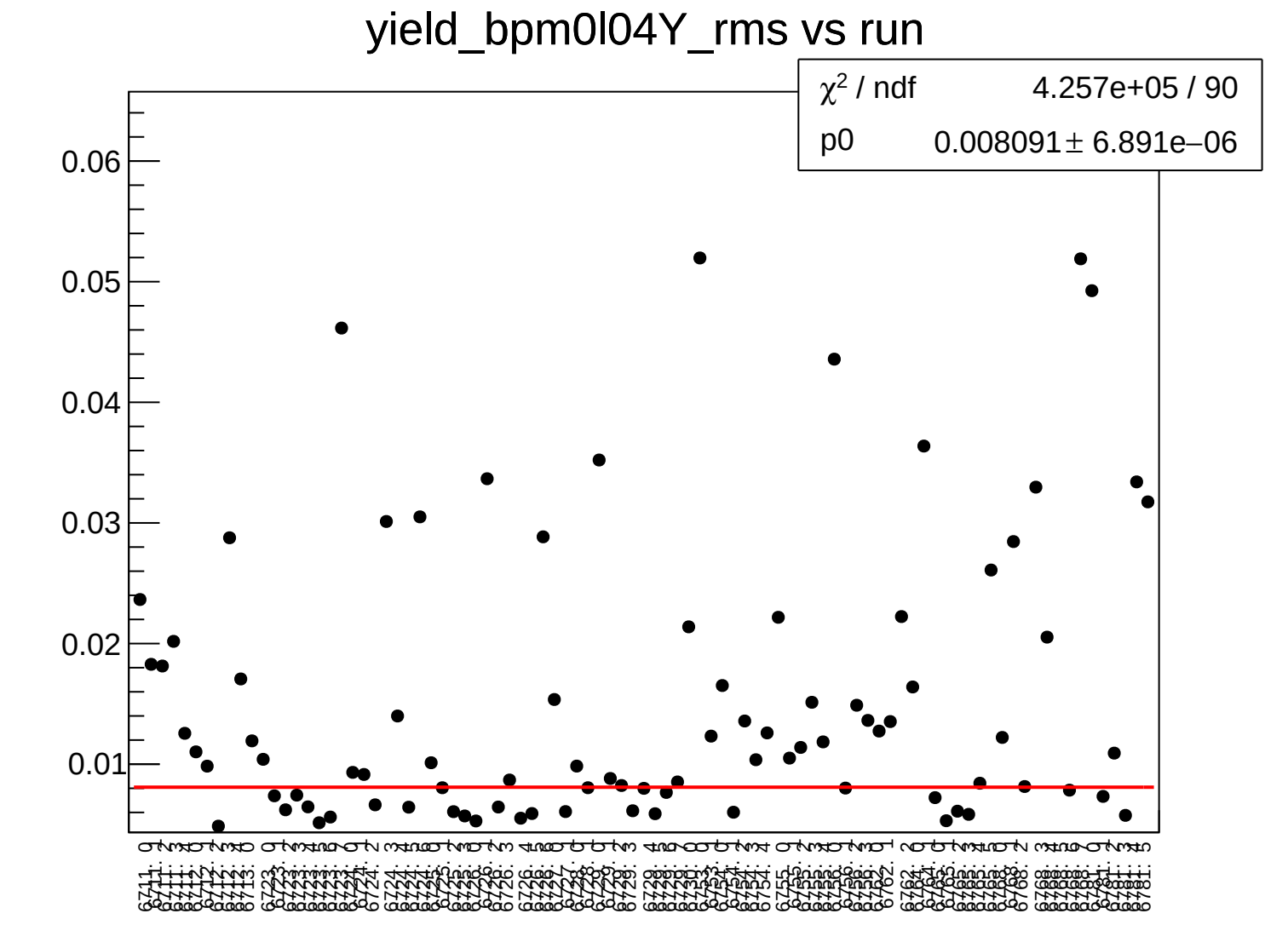

yield_bpm0l04X_mean vs run
χ² / ndf 1.065e+08 / 90
p0 −3.041 ± 9.178e−06
−2.8
−2.9
−3
−3.1
−3.2
pull
Entries 91
Mean −3399
Std Dev 0
4000
3000
2000
1000
0
−1000
−2000
−3000

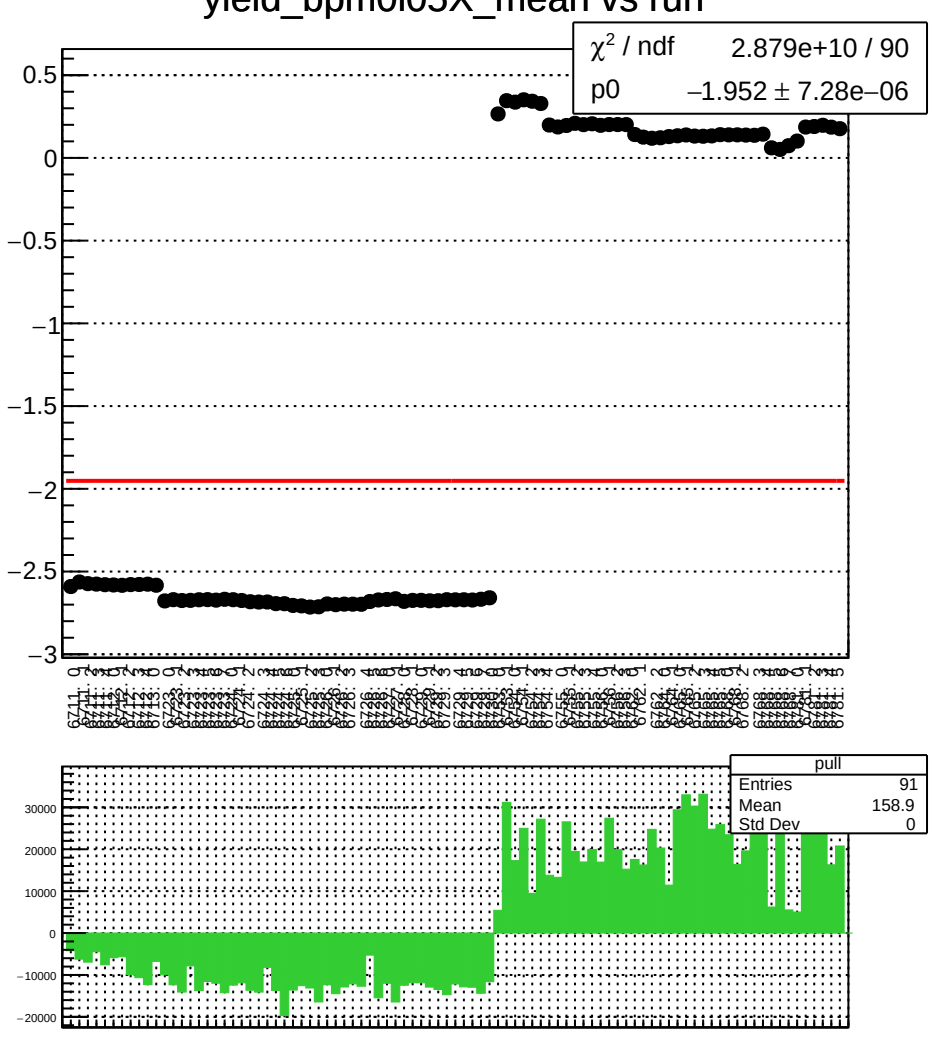

pull1D
Entries 91
Mean 3.696
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

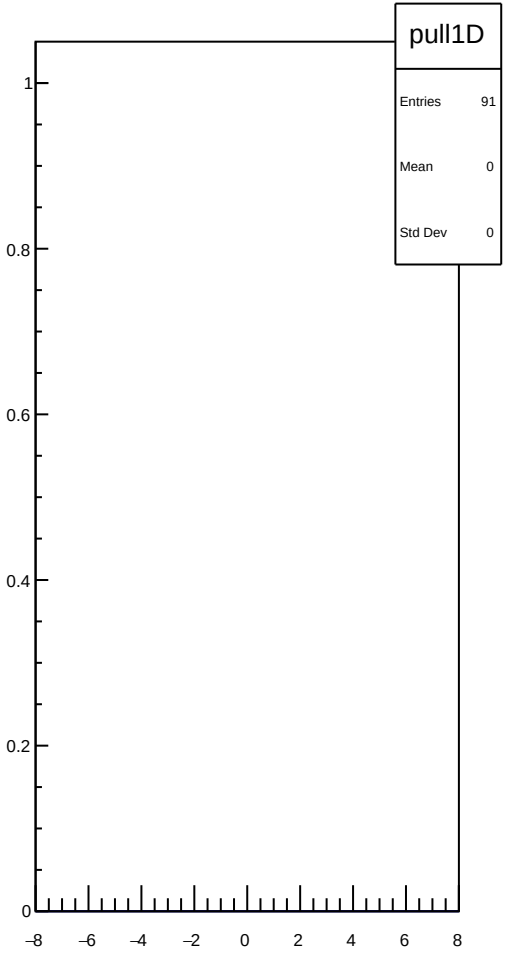

yield_bpm0l04X_rms vs run
χ² / ndf 8.471e+04 / 90
p0 0.00851 ± 6.49e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

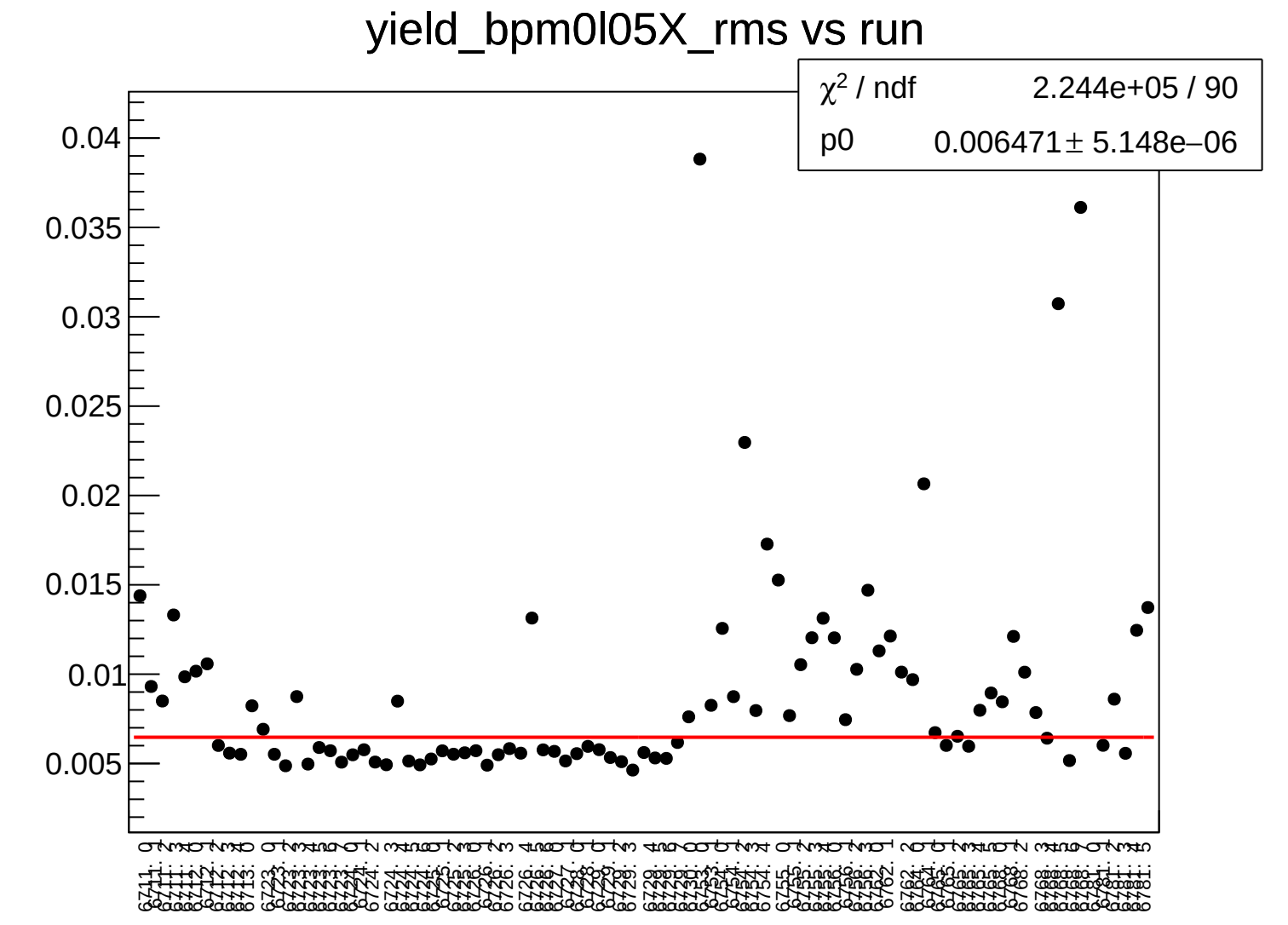

yield_bpm0l04Y_mean vs run
χ² / ndf 4.243e+07 / 90
p0 1.386 ± 9.746e−06
1.5
1.45
1.4
1.35
1.3
1.25
pull
Entries 91
Mean 84.03
Std Dev 30.27
1000
500
0
−500
−1000
−1500

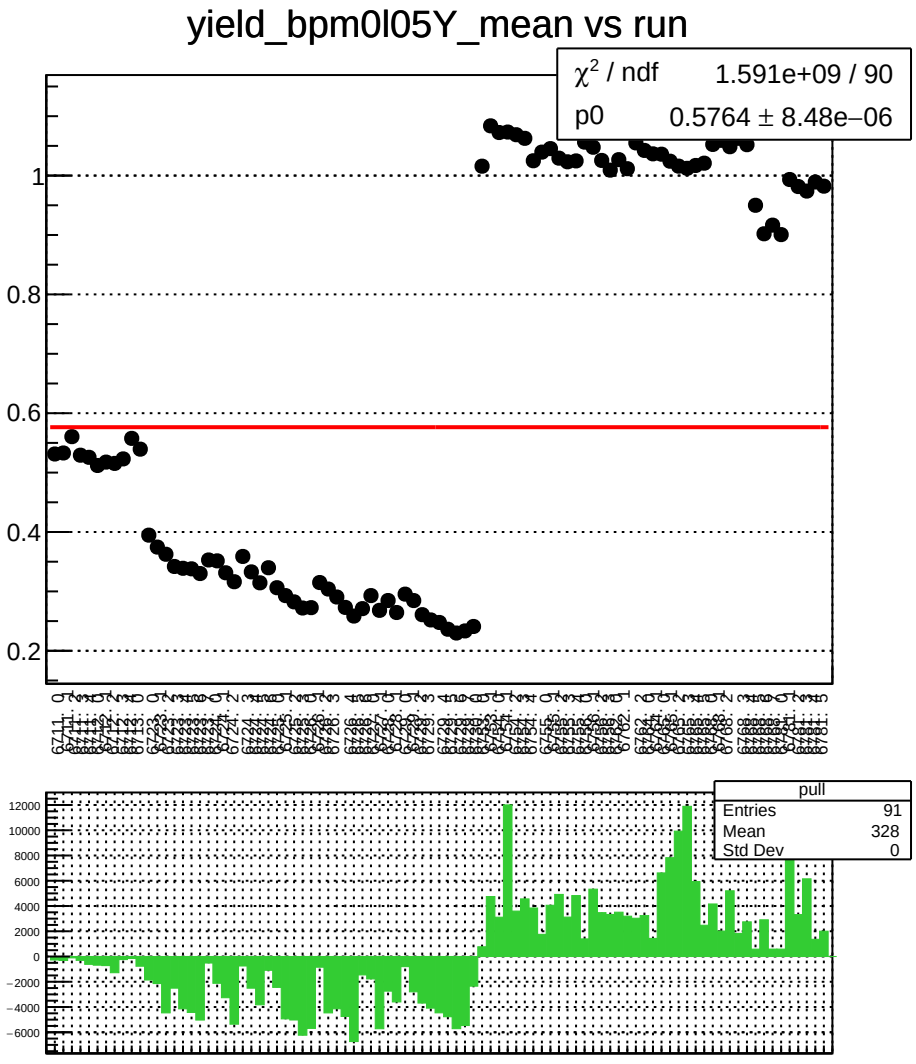

pull1D
Entries 91
Mean −0.3061
Std Dev 5.19
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

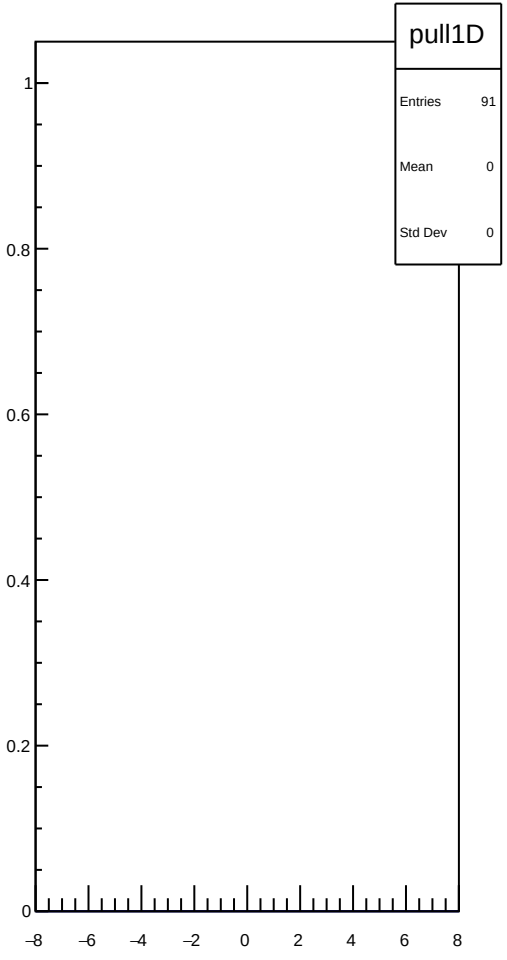

yield_bpm0l04Y_rms vs run
χ² / ndf 4.257e+05 / 90
p0 0.008091 ± 6.891e−06
0.06
0.05
0.04
0.03
0.02
0.01

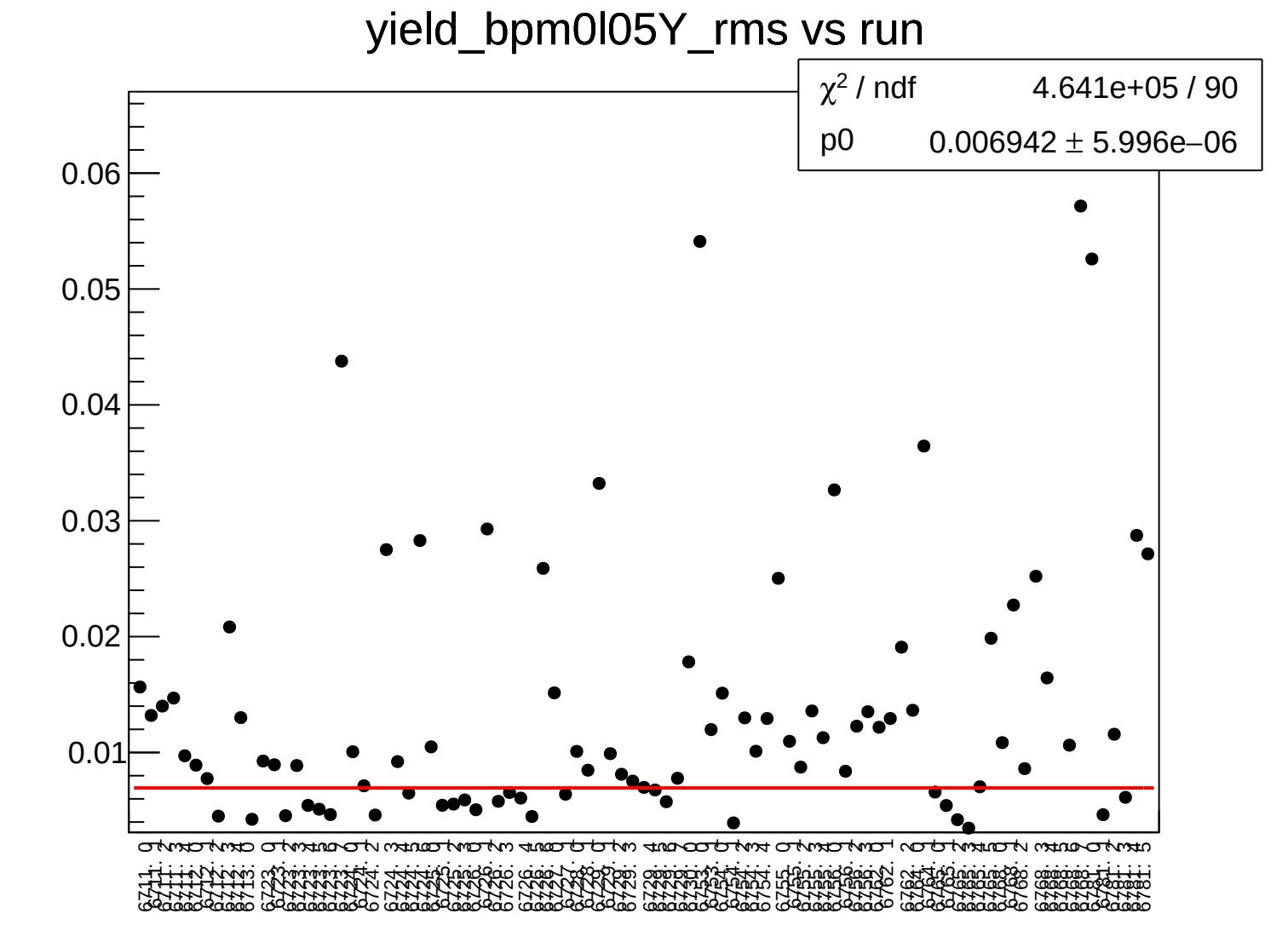

yield_bpm0l05X_mean vs run
χ² / ndf 2.879e+10 / 90
p0 −1.952 ± 7.28e−06
pull
Entries 91
Mean 158.9
Std Dev 0

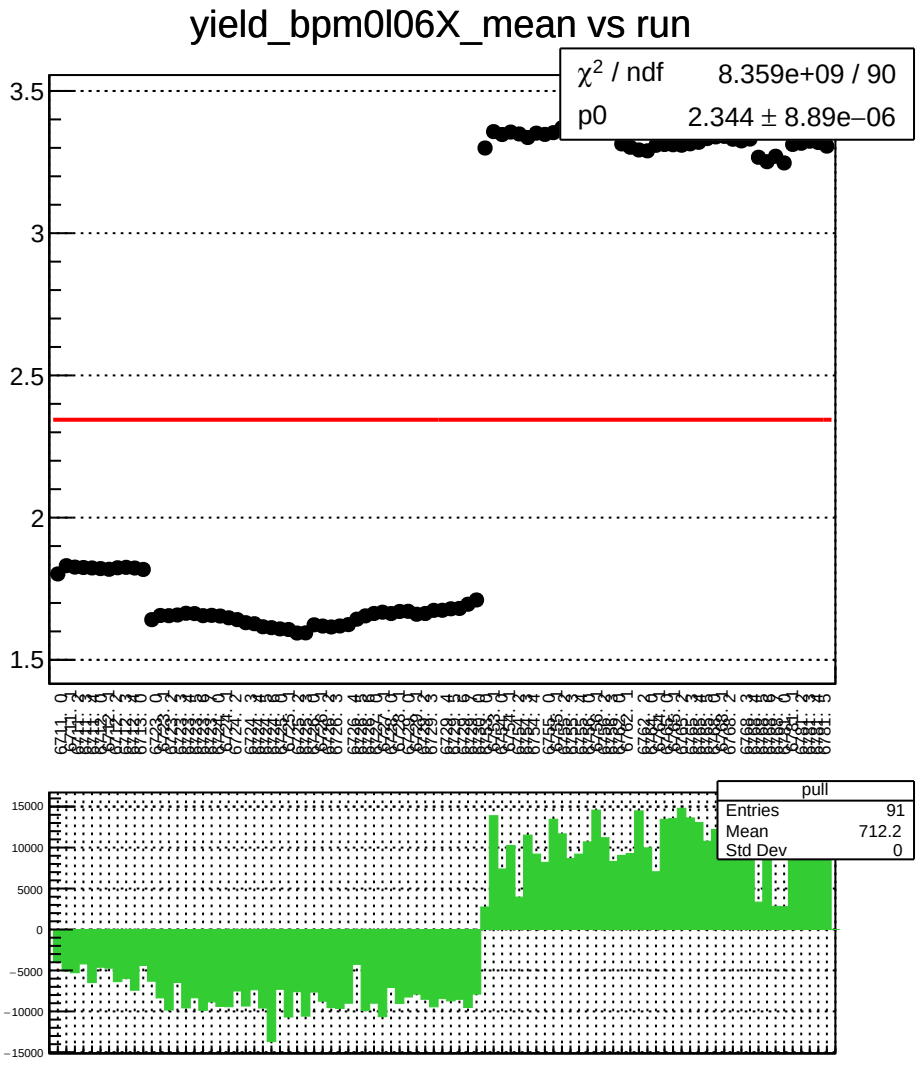

pull1D
Entries 91
Mean 0
Std Dev 0

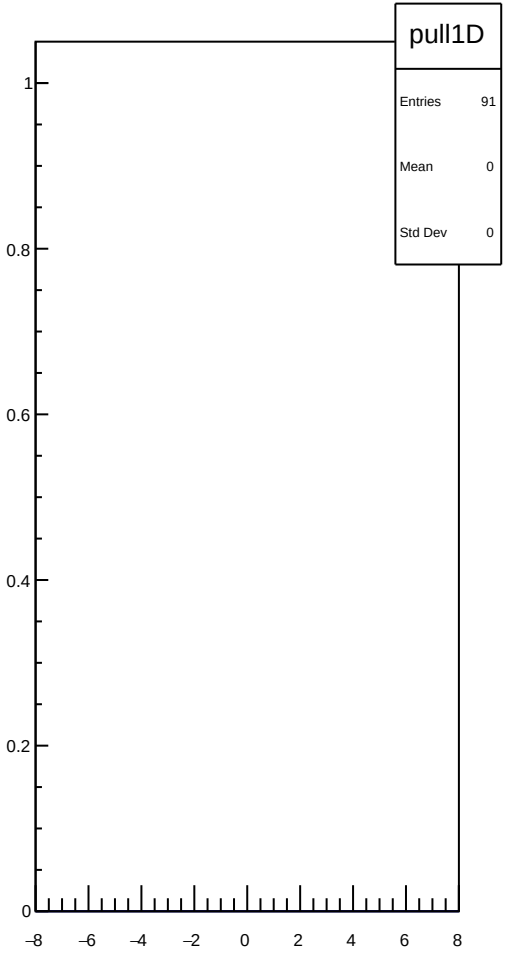

yield_bpm0l05X_rms vs run
χ² / ndf 2.244e+05 / 90
p0 0.006471 ± 5.148e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

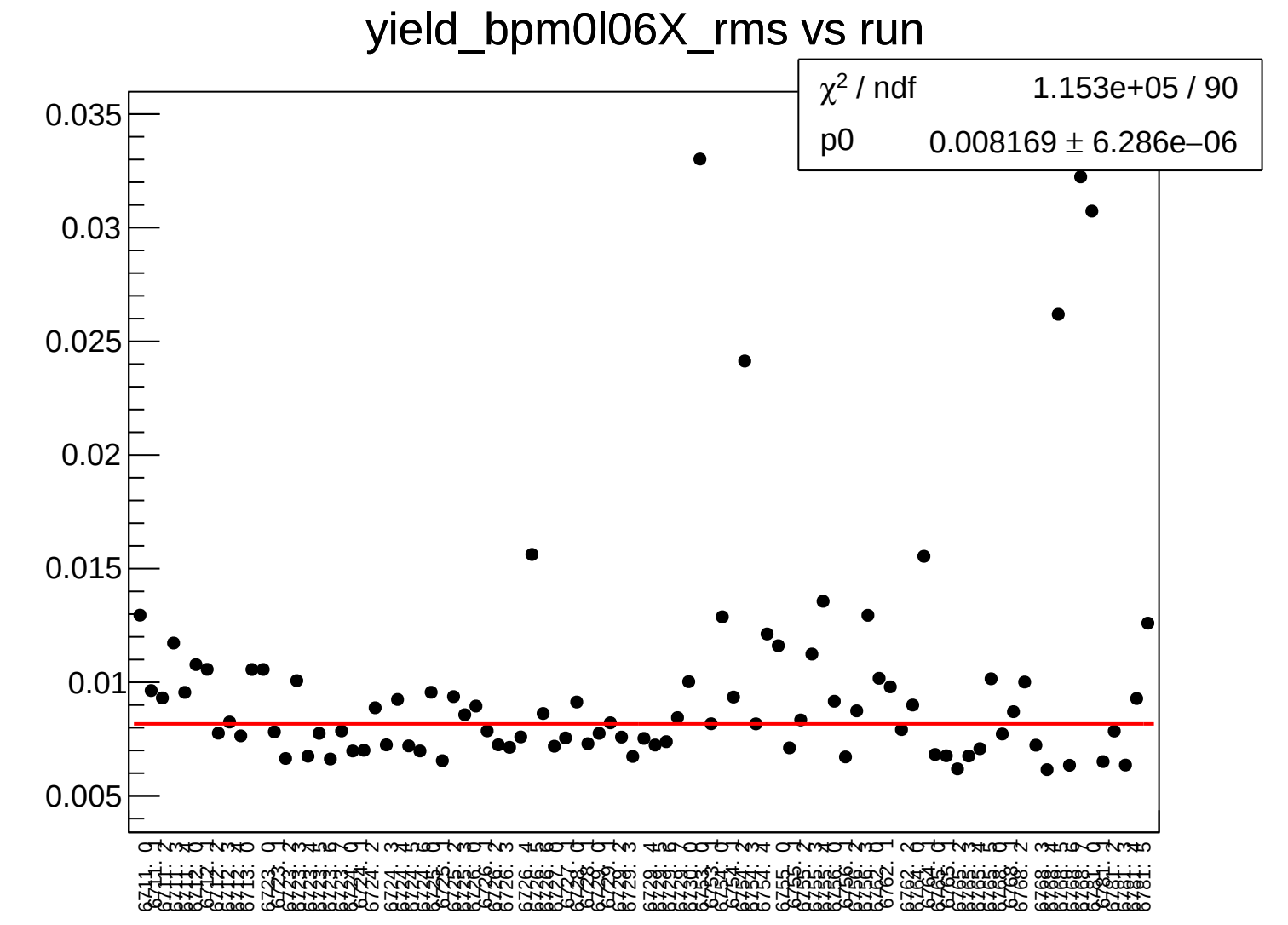

yield_bpm0l05Y_mean vs run
χ² / ndf 1.591e+09 / 90
p0 0.5764 ± 8.48e−06
pull
Entries 91
Mean 328
Std Dev 0

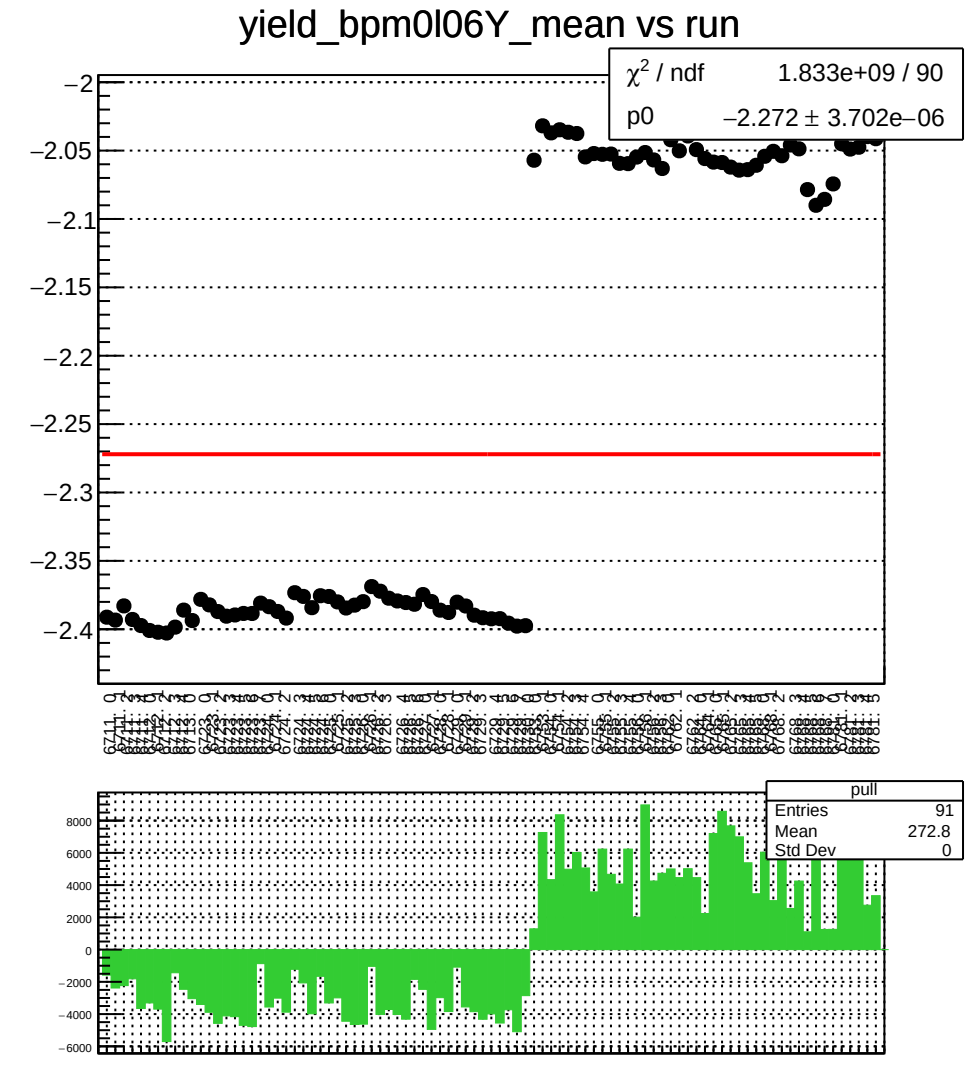

pull1D
Entries 91
Mean 0
Std Dev 0

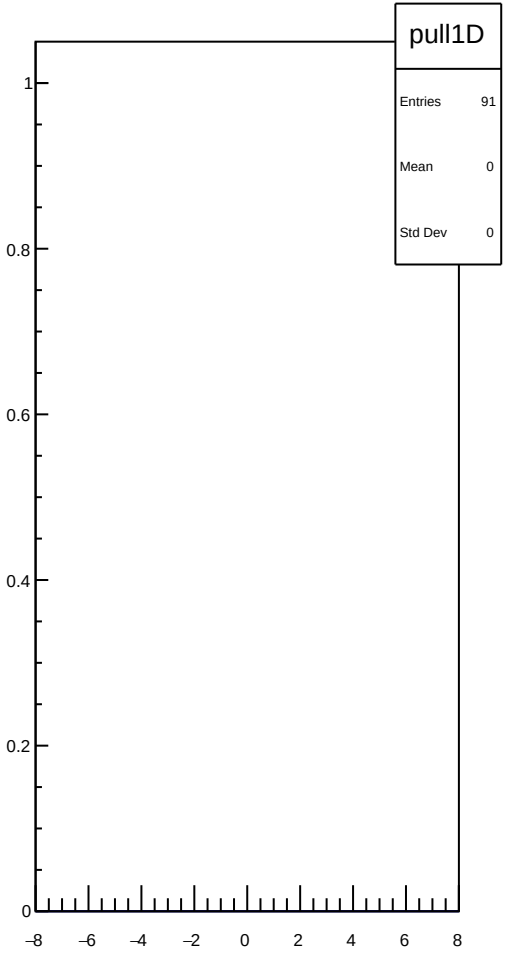

yield_bpm0l05Y_rms vs run
χ² / ndf 4.641e+05 / 90
p0 0.006942 ± 5.996e−06
0.06
0.05
0.04
0.03
0.02
0.01

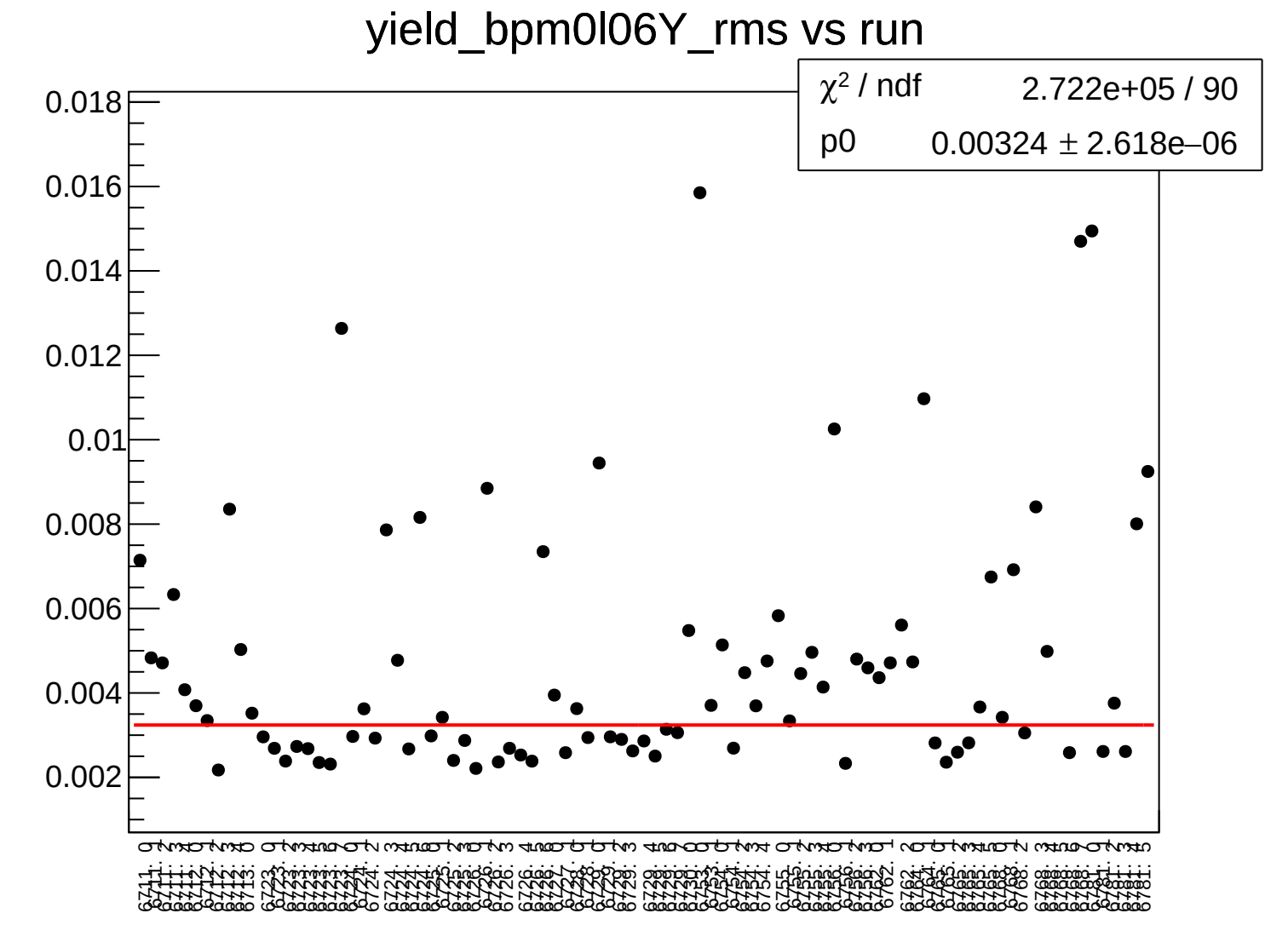

yield_bpm0l06X_mean vs run
χ² / ndf 8.359e+09 / 90
p0 2.344 ± 8.89e−06
3.5
3
2.5
2
1.5
pull
Entries 91
Mean 712.2
Std Dev 0
15000
10000
5000
0
−5000
−10000
−15000

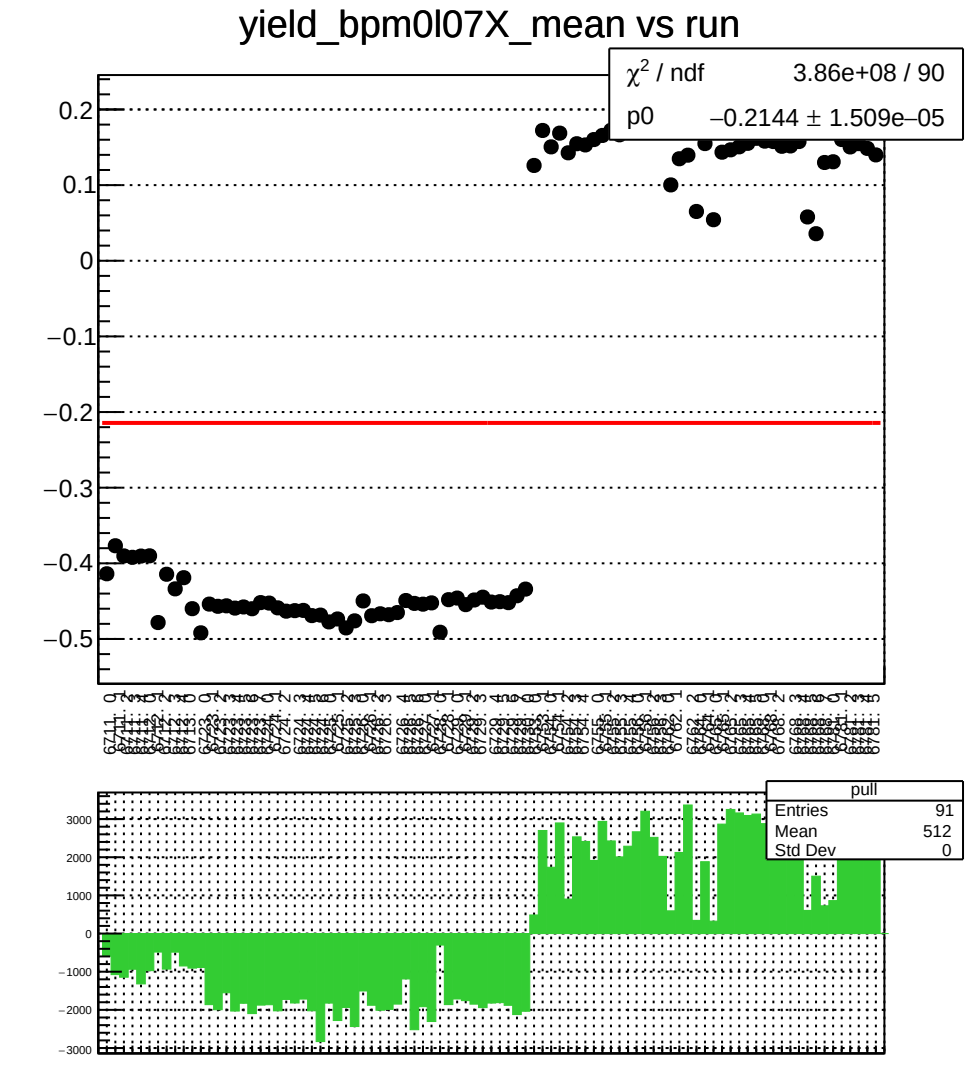

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

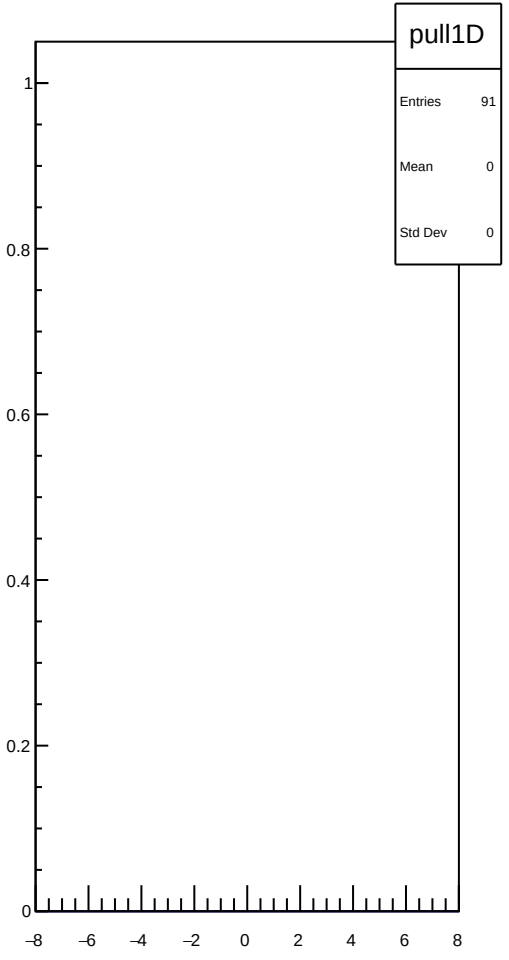

yield_bpm0l06X_rms vs run
χ^2 / ndf 1.153e+05 / 90
p0 0.008169 ± 6.286e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

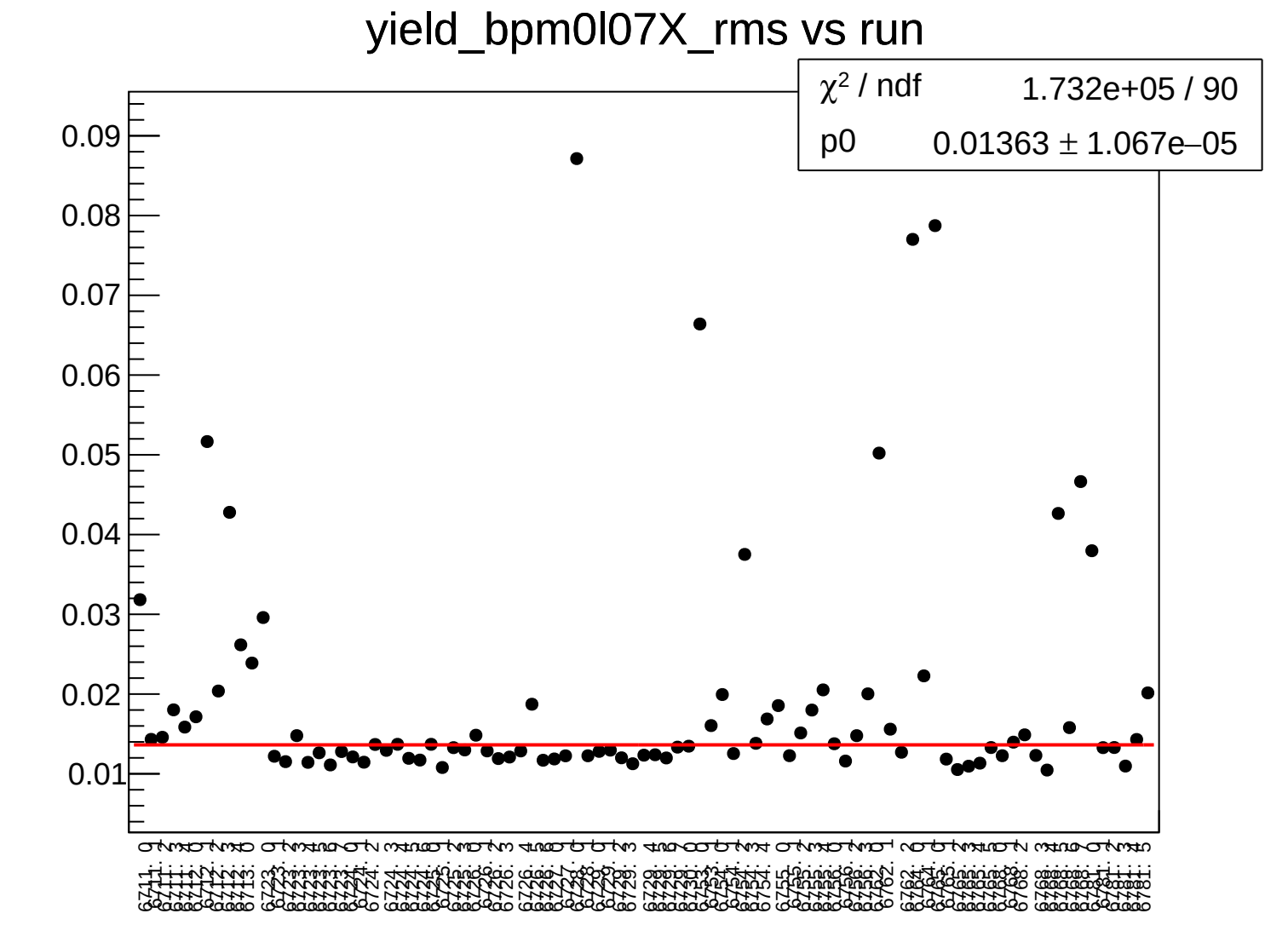

yield_bpm0l06Y_mean vs run
χ² / ndf 1.833e+09 / 90
p0 −2.272 ± 3.702e−06
pull
Entries 91
Mean 272.8
Std Dev 0

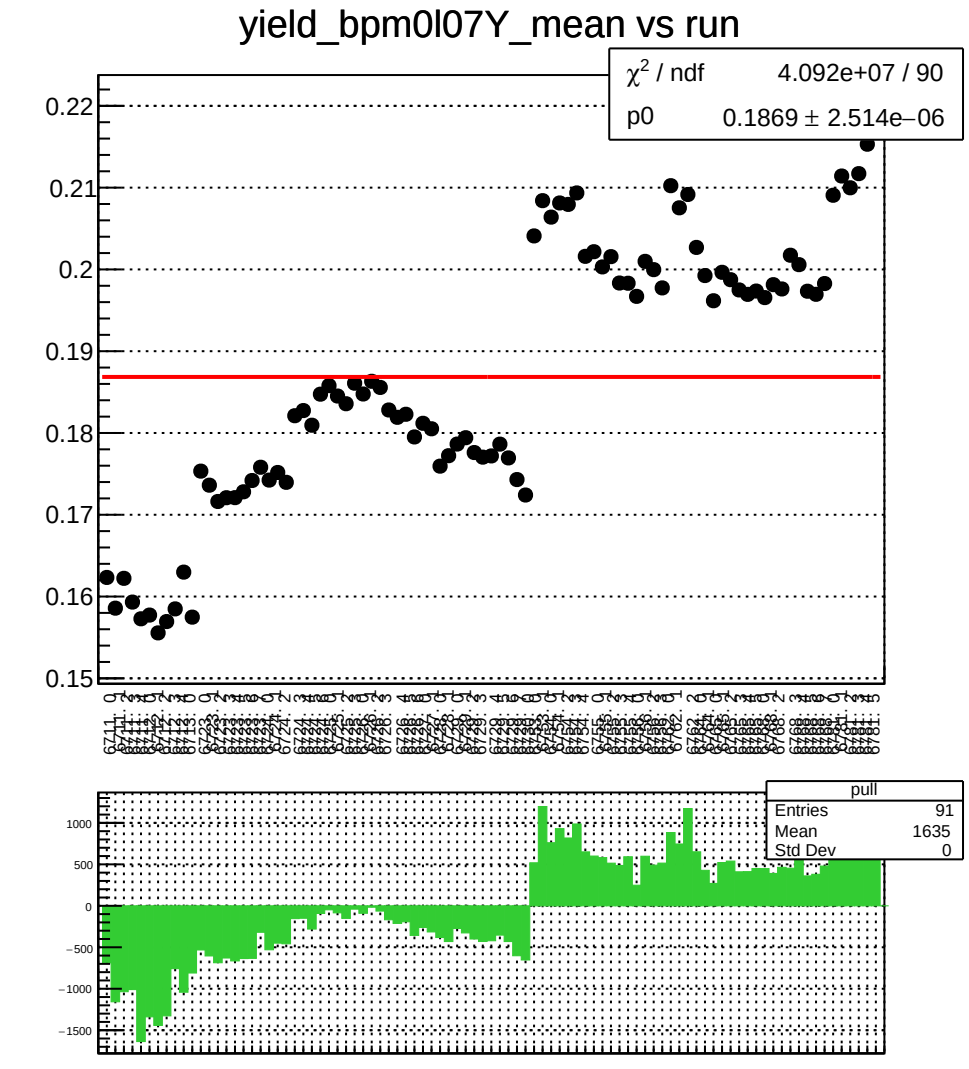

pull1D
Entries 91
Mean 0
Std Dev 0

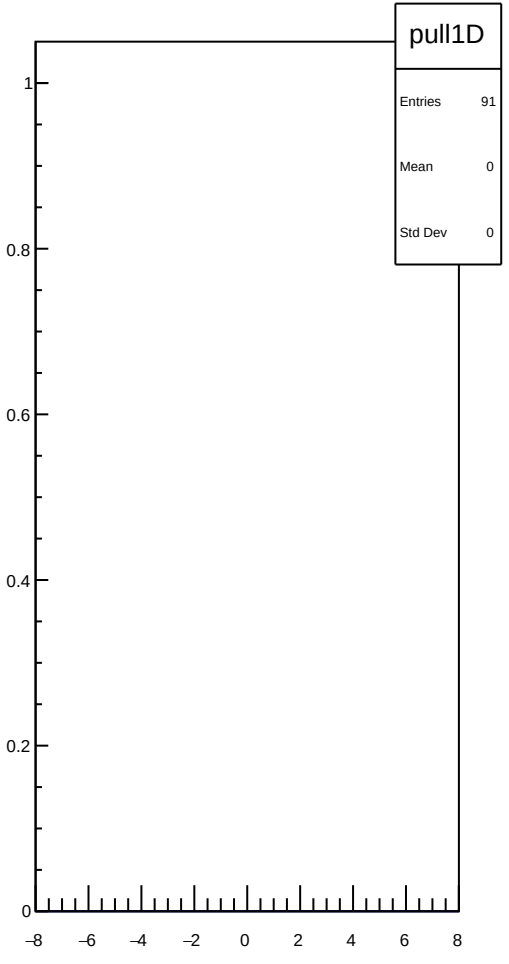

yield_bpm0l06Y_rms vs run
χ² / ndf 2.722e+05 / 90
p0 0.00324 ± 2.618e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

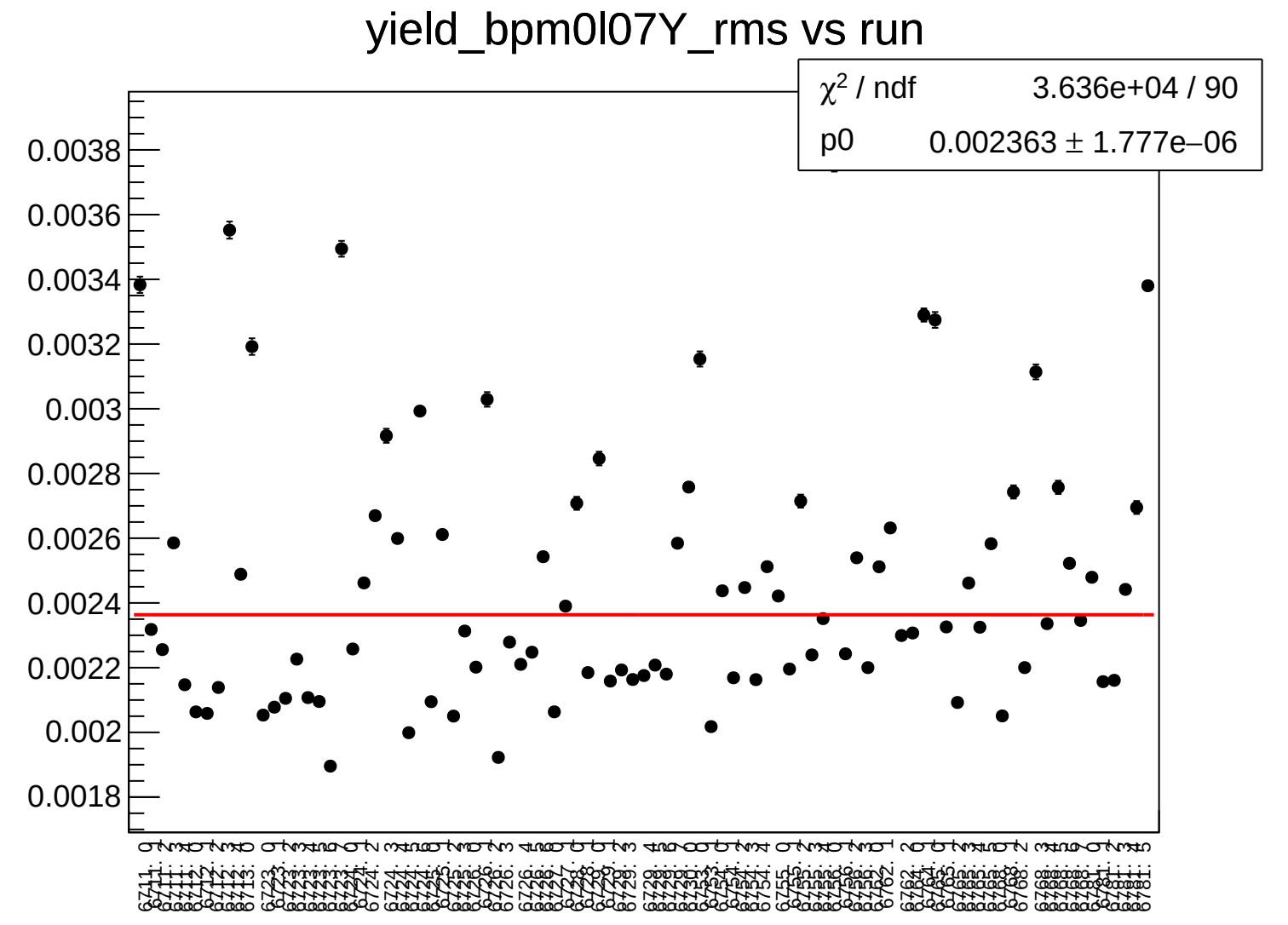

yield_bpm0l07X_mean vs run
χ² / ndf 3.86e+08 / 90
p0 −0.2144 ± 1.509e−05
pull
Entries 91
Mean 512
Std Dev 0

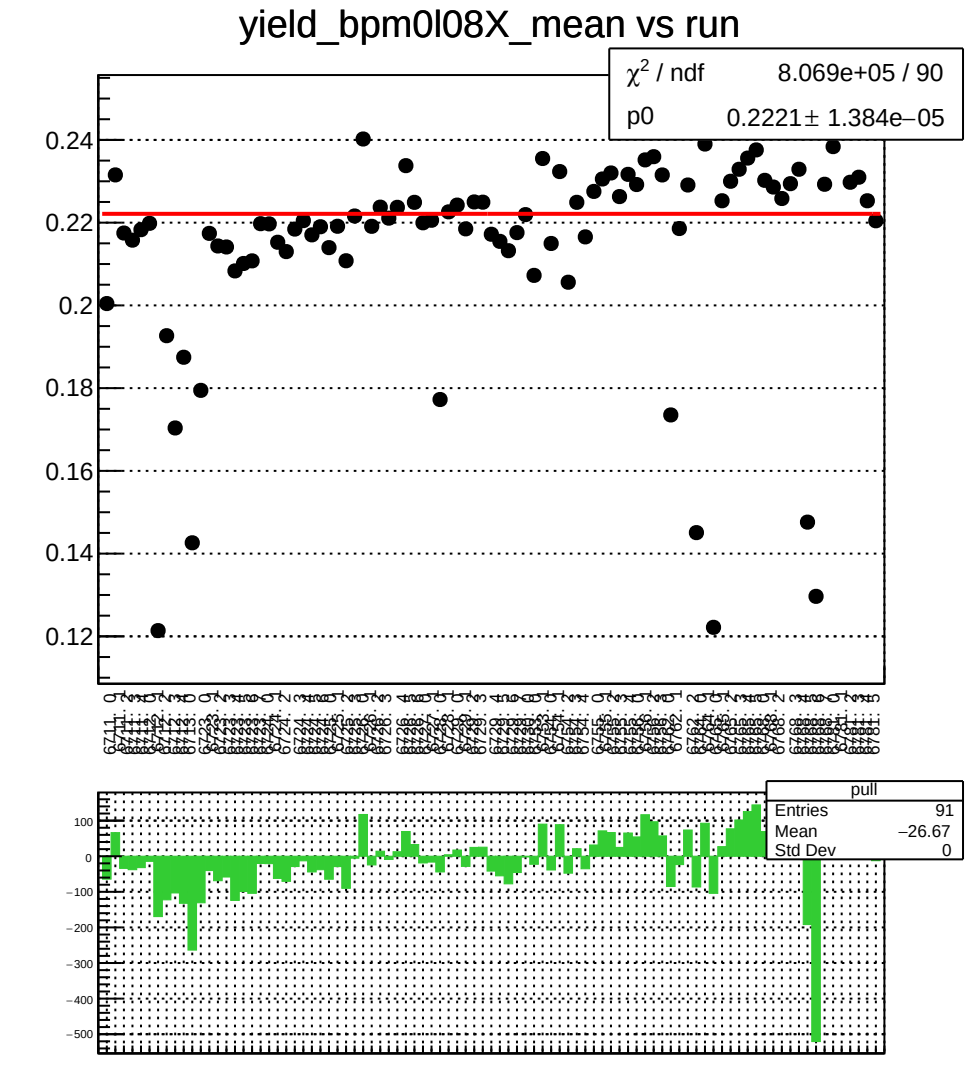

pull1D
Entries 91
Mean 0
Std Dev 0

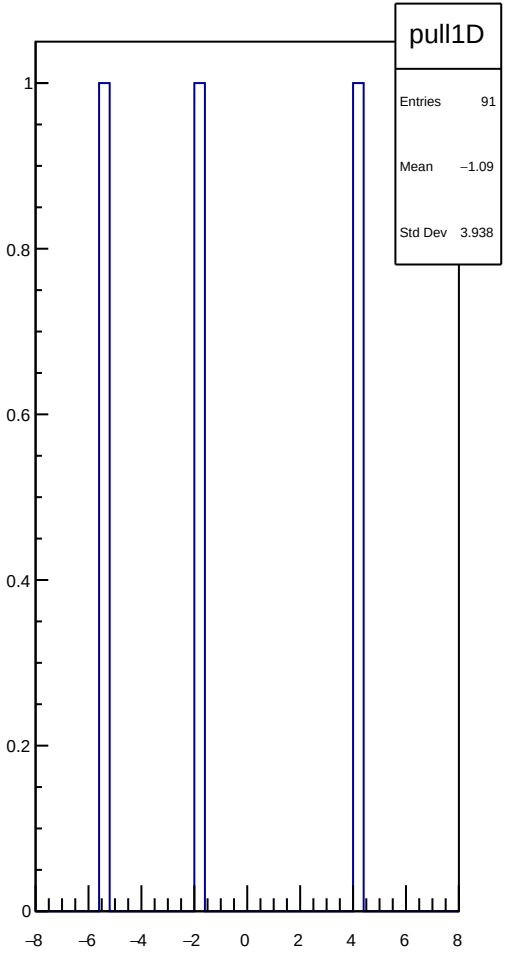

yield_bpm0l07X_rms vs run
χ² / ndf 1.732e+05 / 90
p0 0.01363 ± 1.067e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

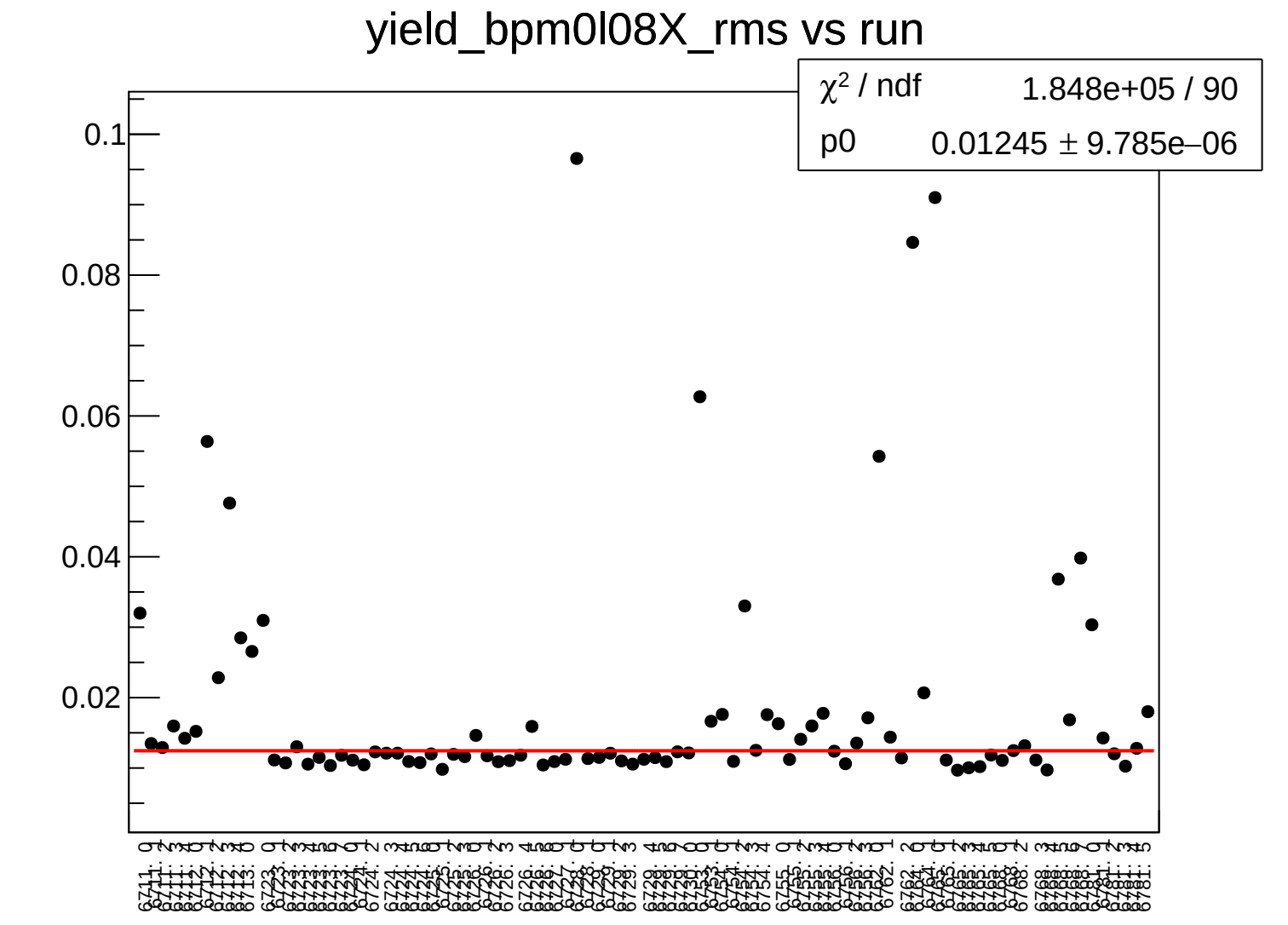

yield_bpm0l07Y_mean vs run
χ² / ndf 4.092e+07 / 90
p0 0.1869 ± 2.514e−06
0.22
0.21
0.2
0.19
0.18
0.17
0.16
0.15
pull
Entries 91
Mean 1635
Std Dev 0
1000
500
0
−500
−1000
−1500

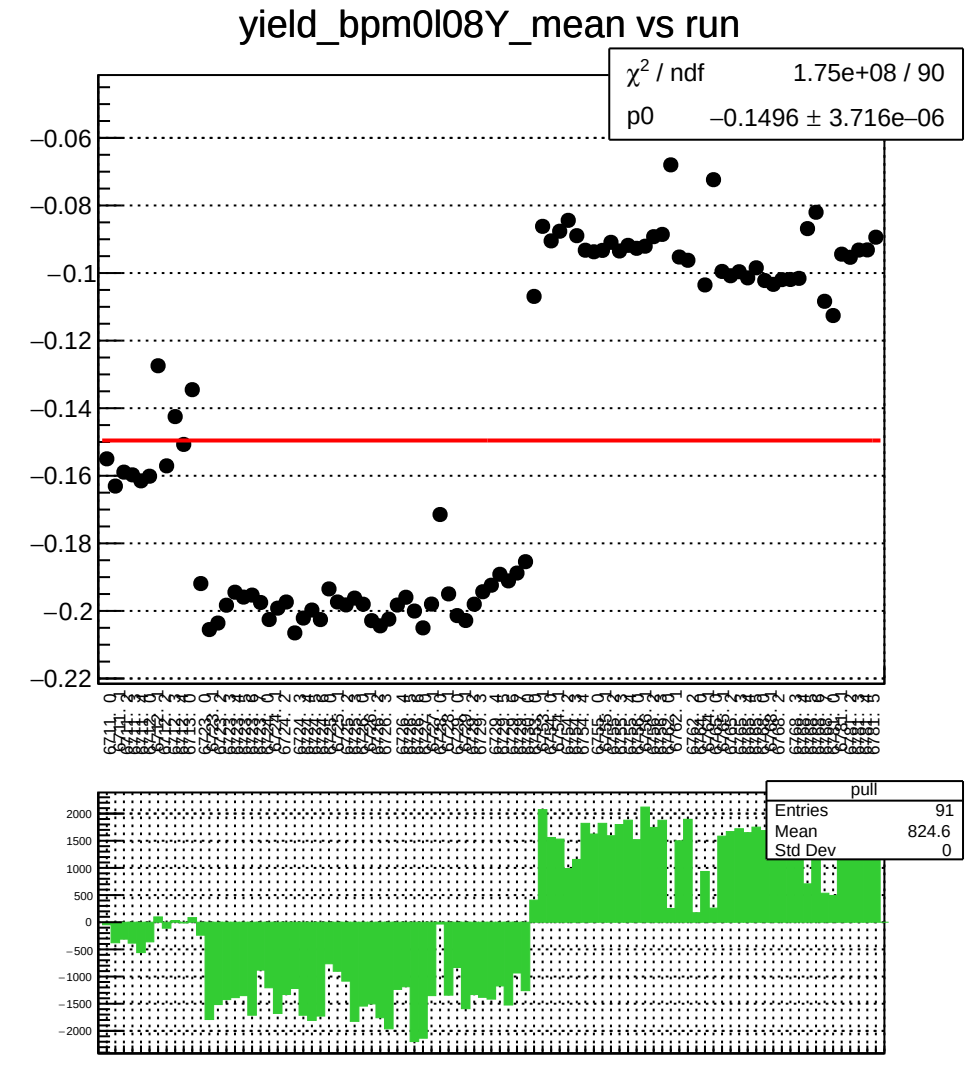

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

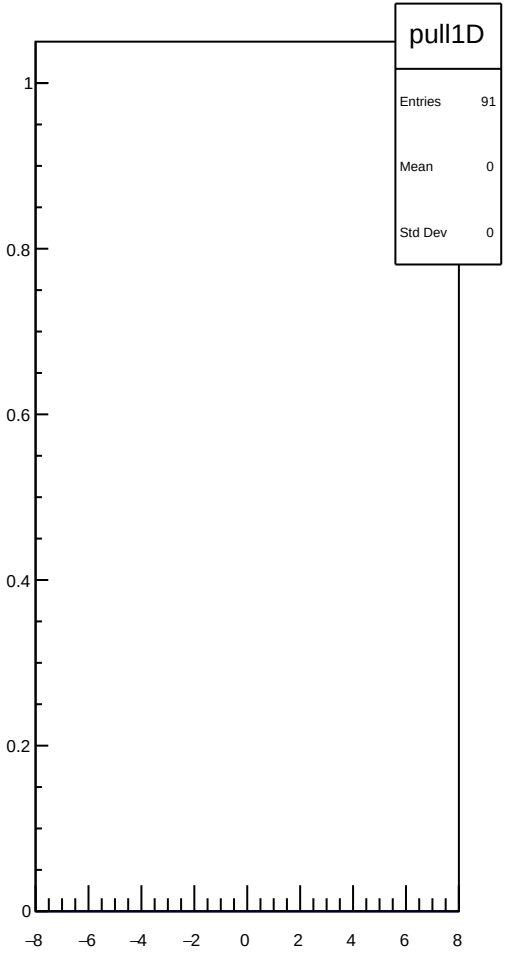

yield_bpm0l07Y_rms vs run
χ² / ndf 3.636e+04 / 90
p0 0.002363 ± 1.777e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

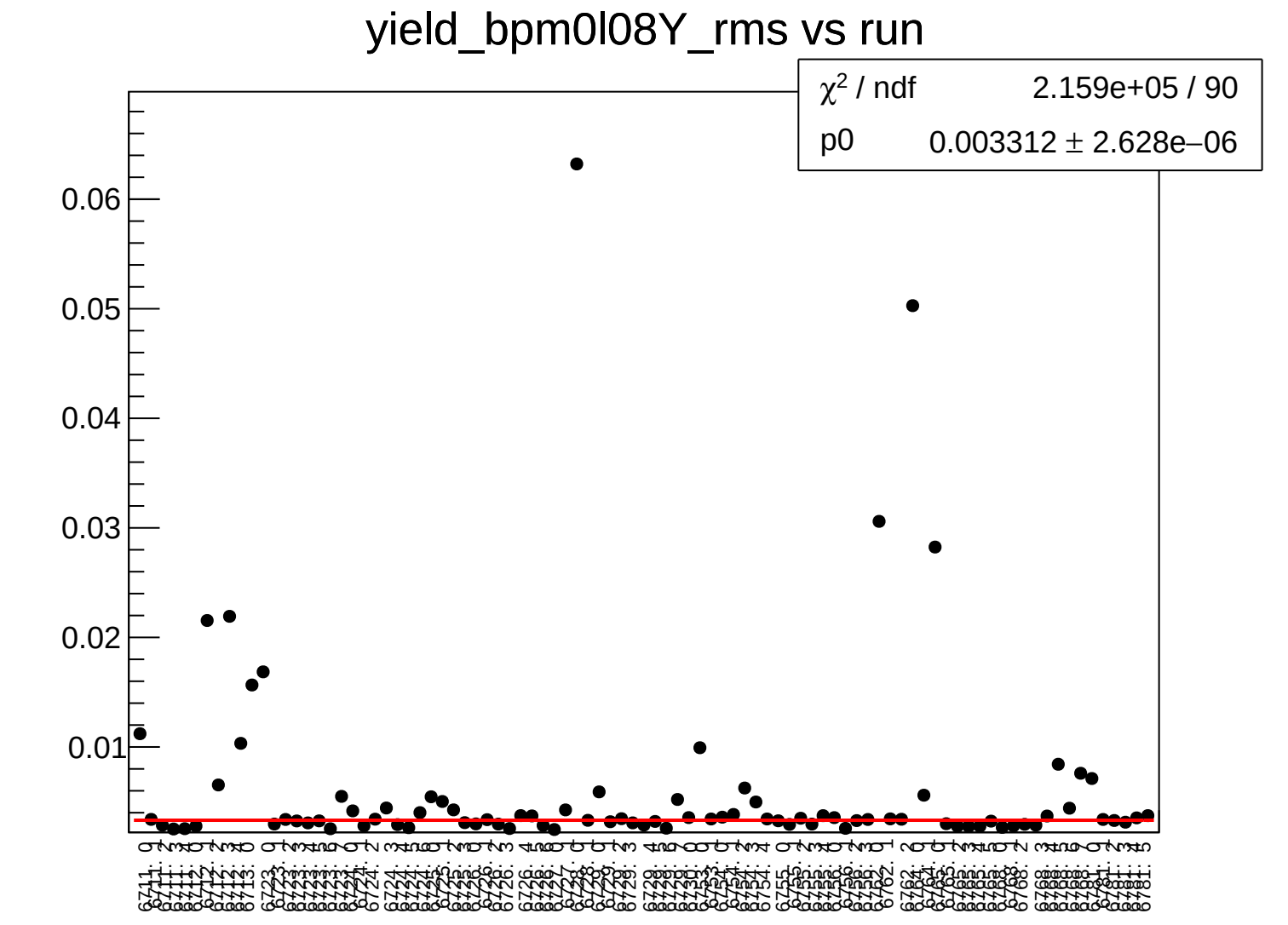

yield_bpm0l08X_mean vs run
χ² / ndf 8.069e+05 / 90
p0 0.2221 ± 1.384e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
pull
Entries 91
Mean −26.67
Std Dev 0
100
0
−100
−200
−300
−400
−500

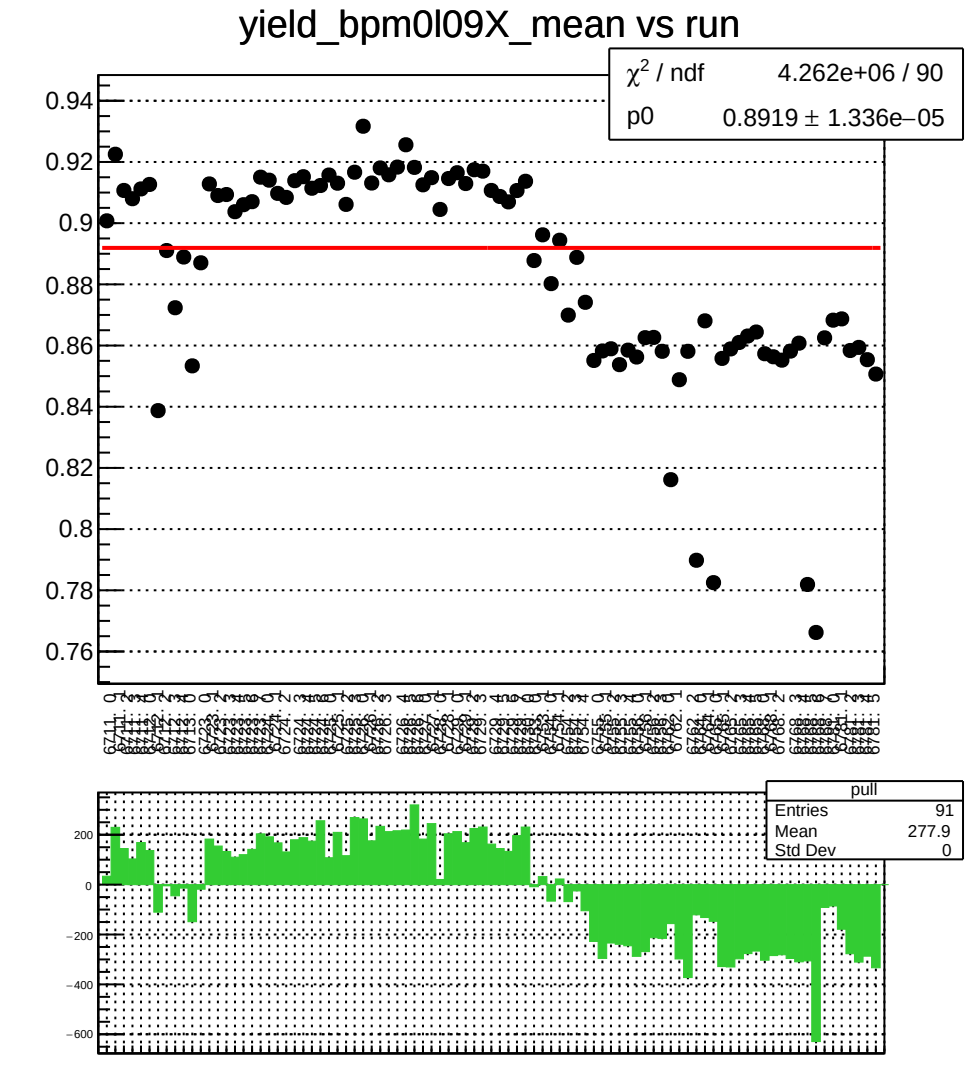

pull1D
Entries 91
Mean −1.09
Std Dev 3.938
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

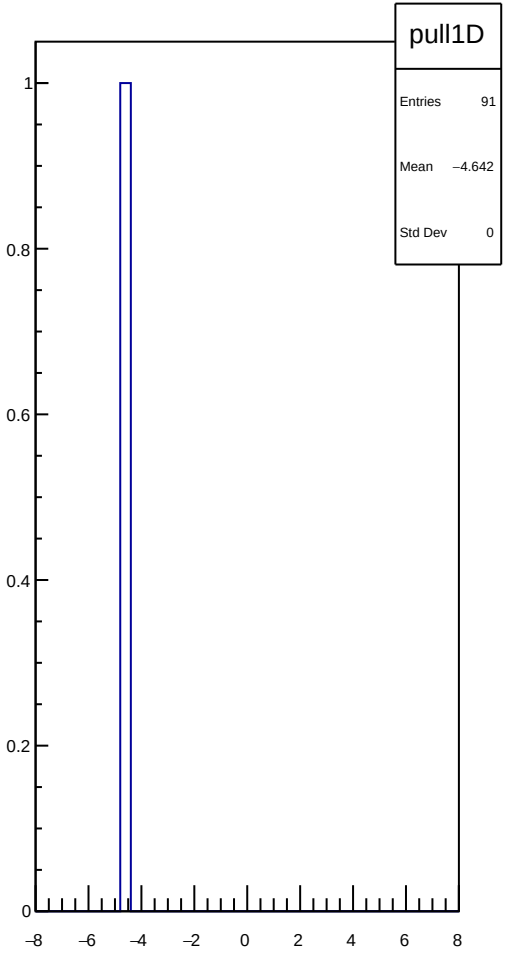

yield_bpm0l08X_rms vs run
χ² / ndf 1.848e+05 / 90
p0 0.01245 ± 9.785e–06
0.1
0.08
0.06
0.04
0.02

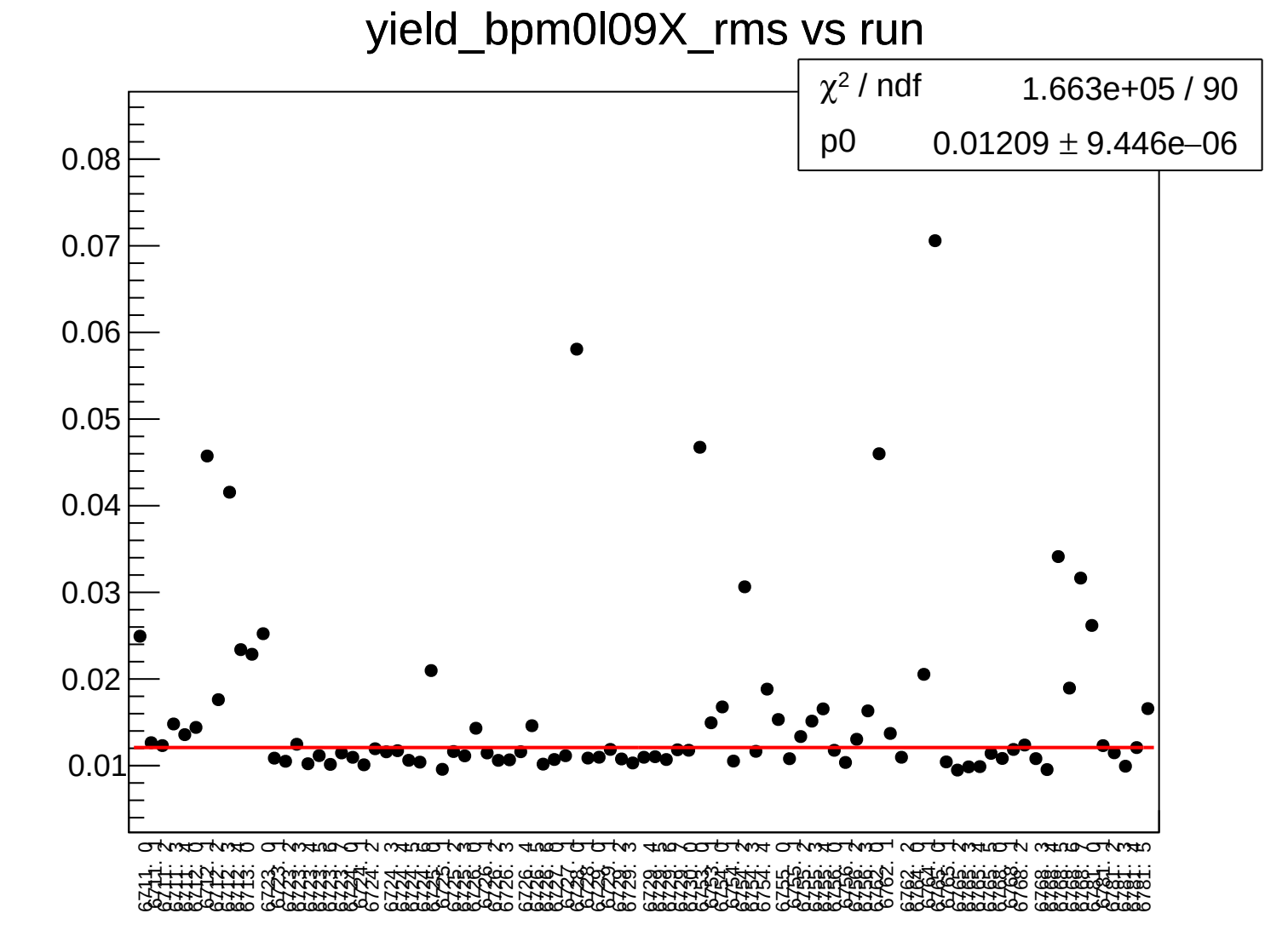

yield_bpm0l08Y_mean vs run
χ² / ndf 1.75e+08 / 90
p0 −0.1496 ± 3.716e−06
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
−0.2
−0.22
pull
Entries 91
Mean 824.6
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500
−2000

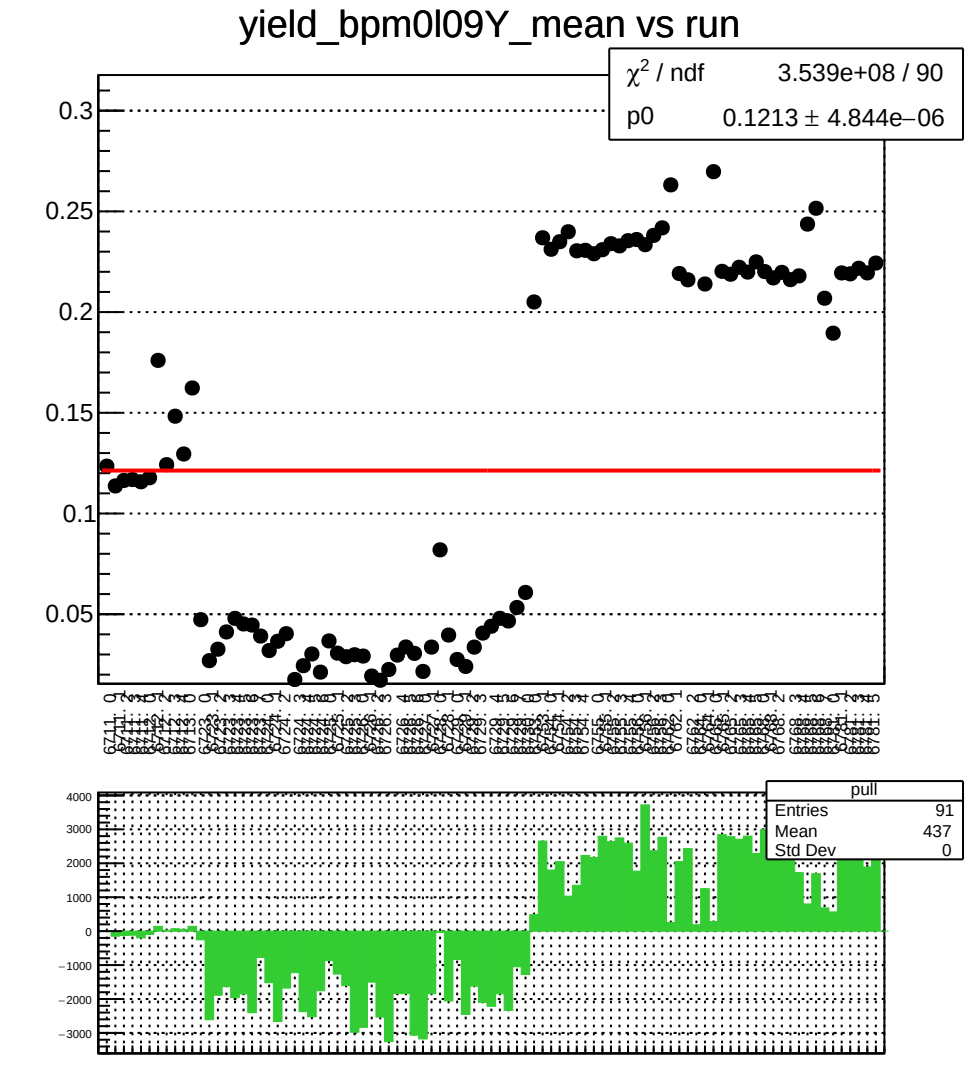

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

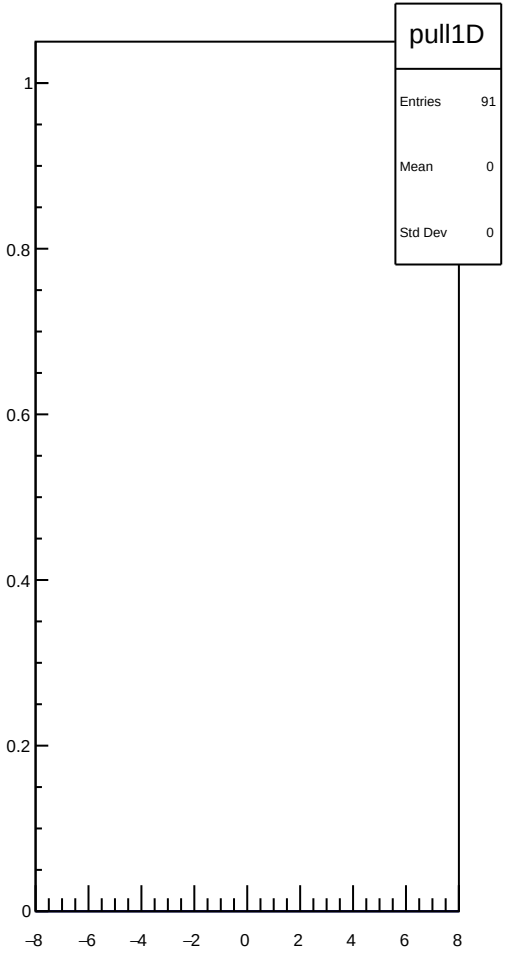

yield_bpm0l08Y_rms vs run
χ² / ndf 2.159e+05 / 90
p0 0.003312 ± 2.628e−06
0.06
0.05
0.04
0.03
0.02
0.01

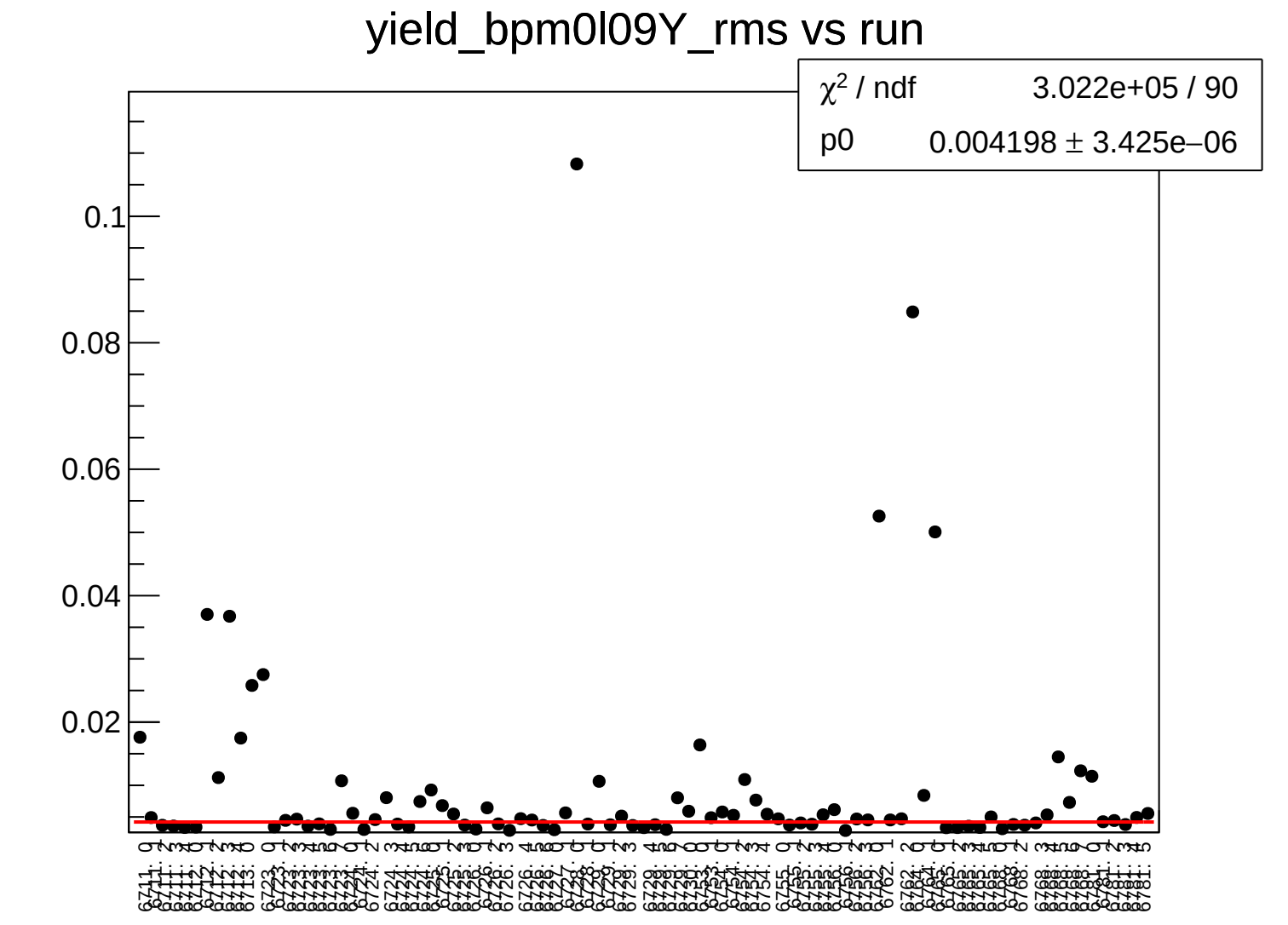

yield_bpm0l09X_mean vs run
χ² / ndf 4.262e+06 / 90
p0 0.8919 ± 1.336e−05
0.94
0.92
0.9
0.88
0.86
0.84
0.82
0.8
0.78
0.76
pull
Entries 91
Mean 277.9
Std Dev 0
200
0
−200
−400
−600

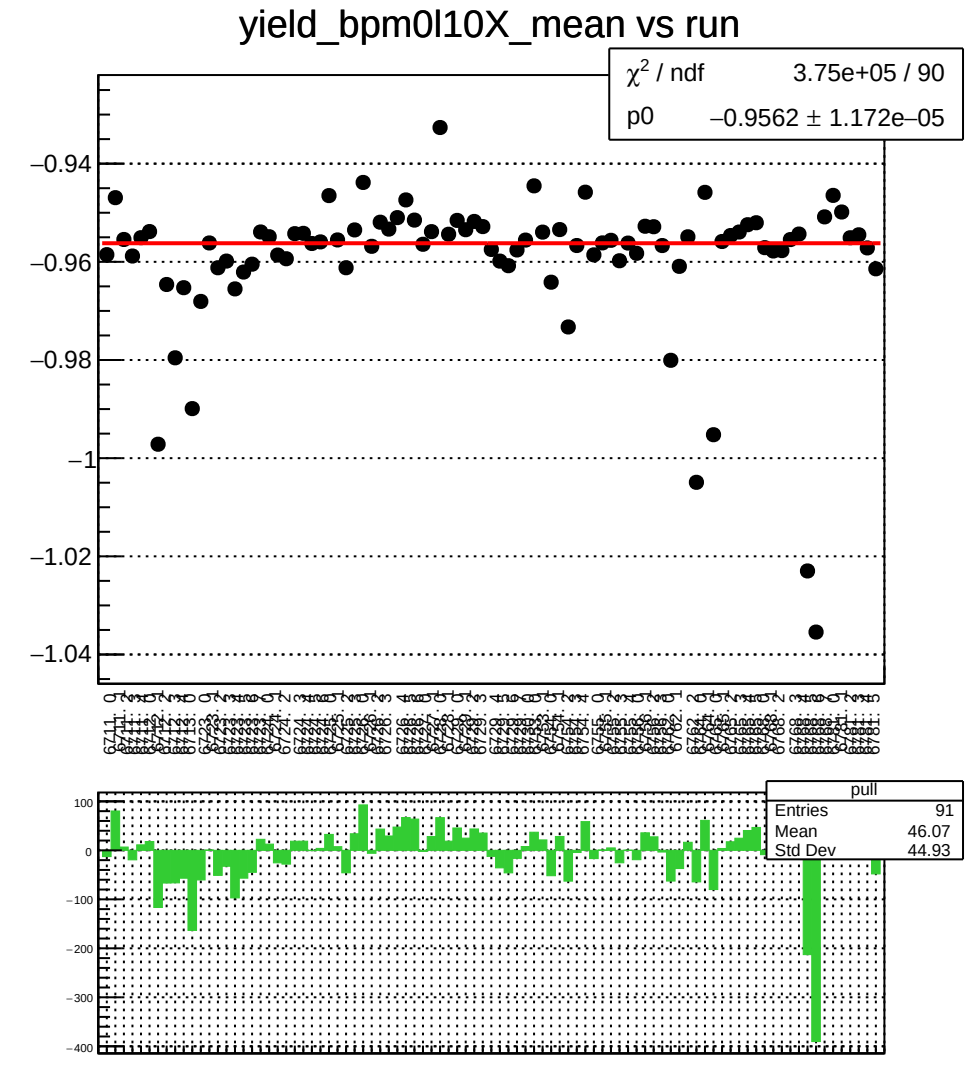

pull1D
Entries 91
Mean −4.642
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

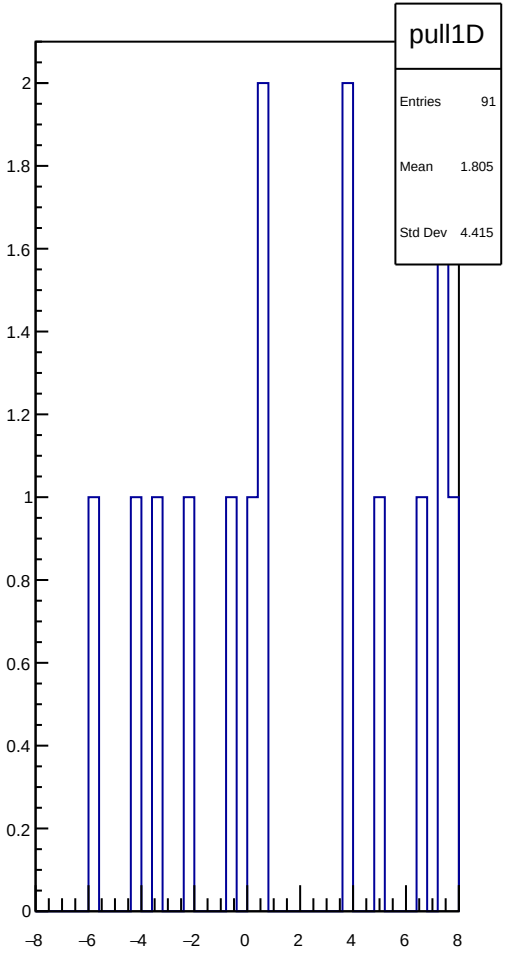

yield_bpm0l09X_rms vs run
χ² / ndf 1.663e+05 / 90
p0 0.01209 ± 9.446e–06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

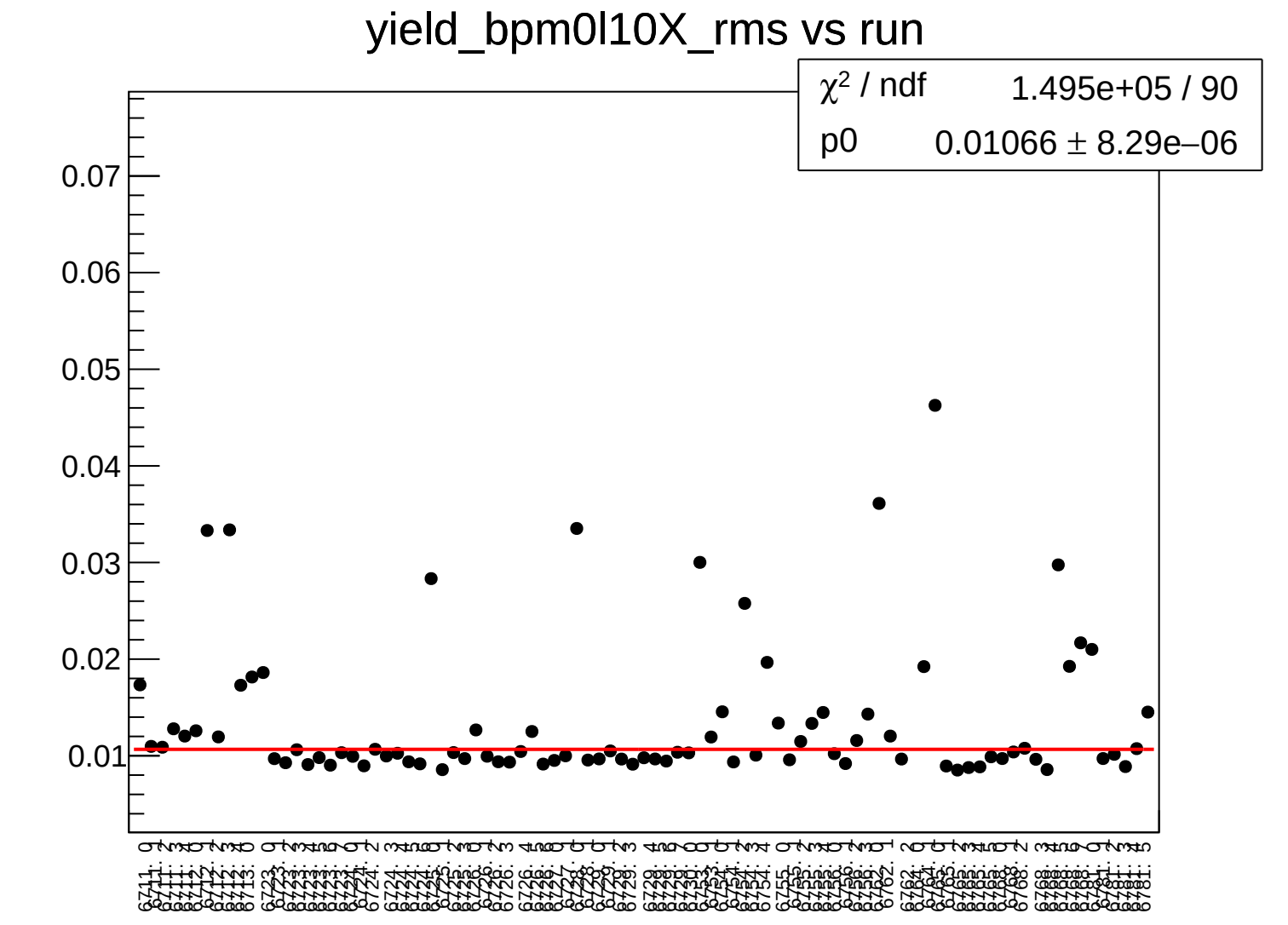

yield_bpm0l09Y_mean vs run
χ² / ndf 3.539e+08 / 90
p0 0.1213 ± 4.844e−06
0.3
0.25
0.2
0.15
0.1
0.05
pull
Entries 91
Mean 437
Std Dev 0
4000
3000
2000
1000
0
−1000
−2000
−3000

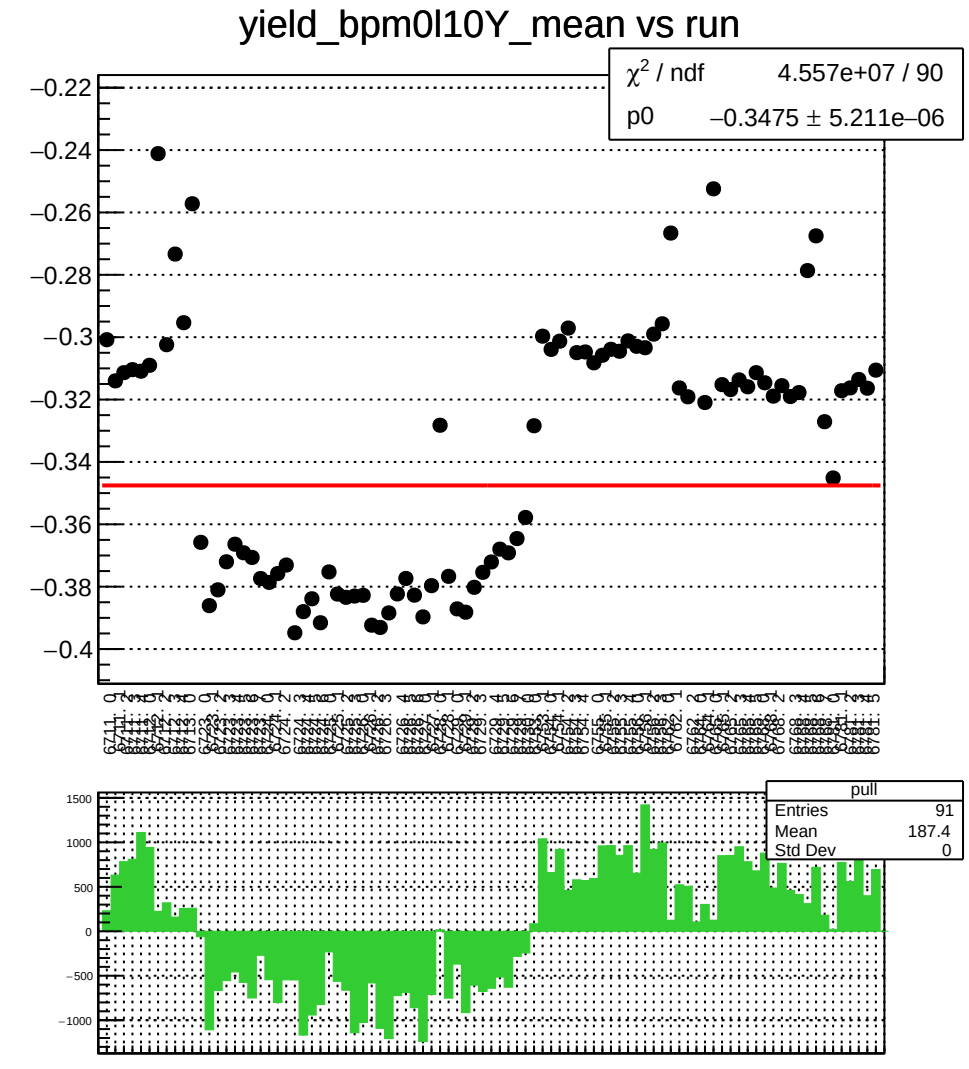

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

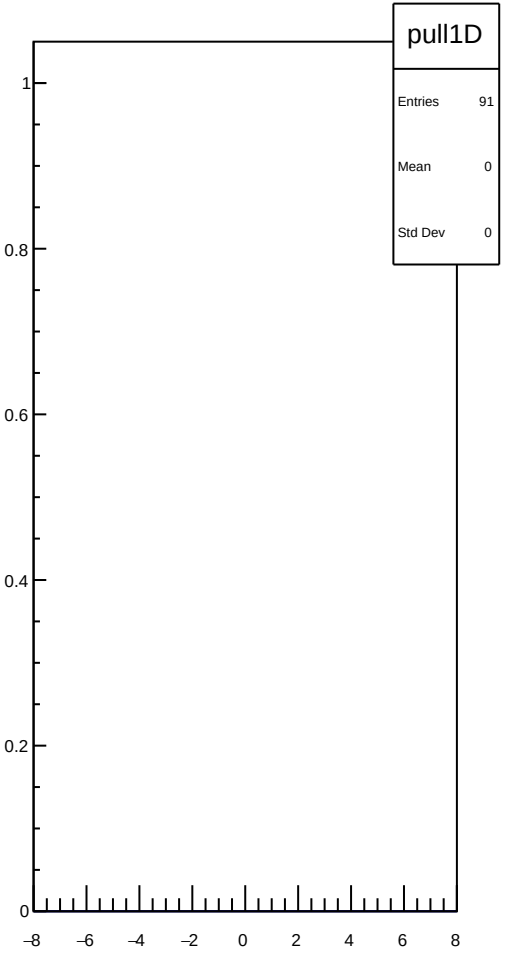

yield_bpm0l09Y_rms vs run
χ² / ndf 3.022e+05 / 90
p0 0.004198 ± 3.425e−06
0.1
0.08
0.06
0.04
0.02

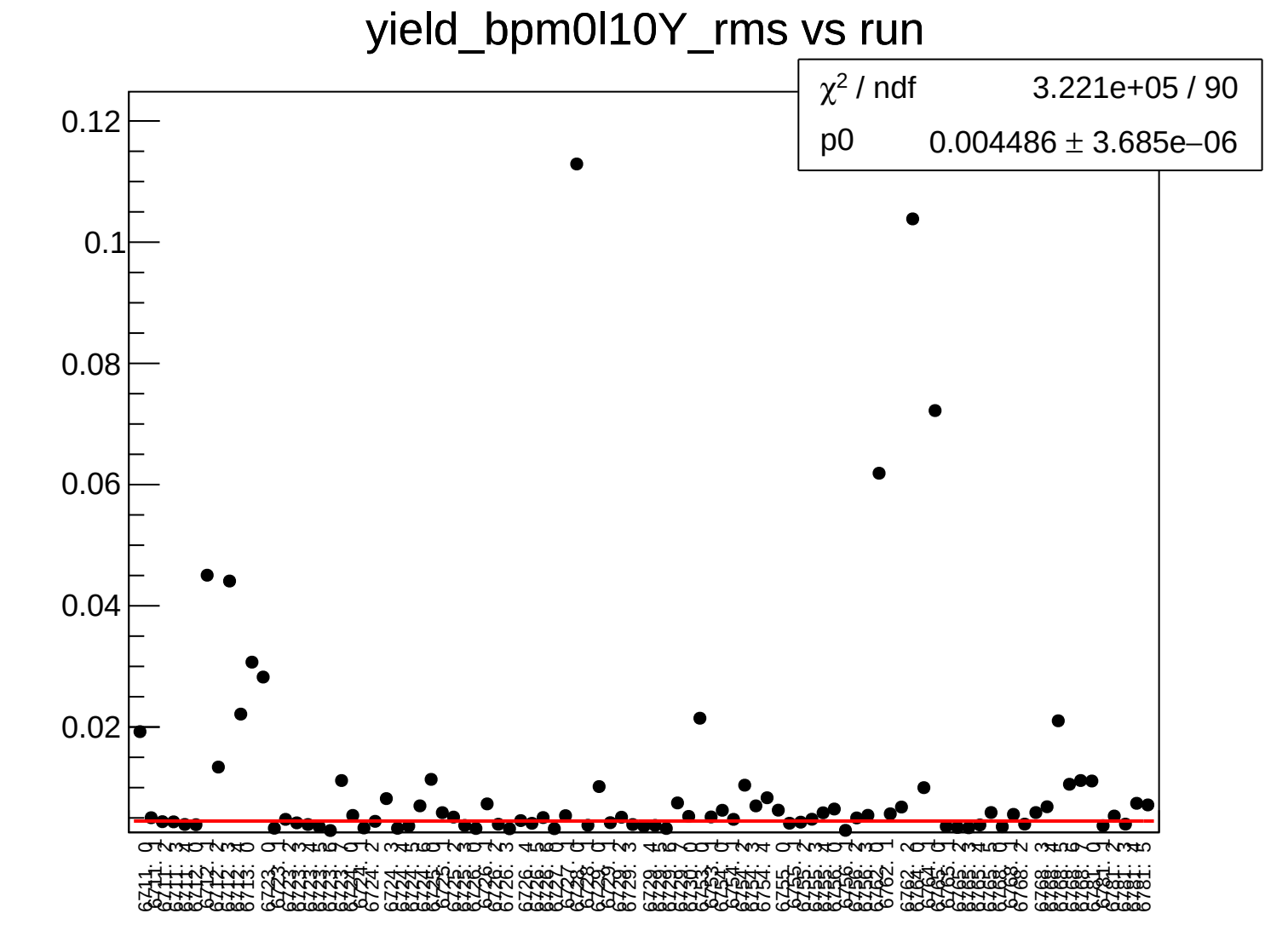

yield_bpm0l10X_mean vs run
χ² / ndf 3.75e+05 / 90
p0 −0.9562 ± 1.172e−05
−0.94
−0.96
−0.98
−1
−1.02
−1.04
pull
Entries 91
Mean 46.07
Std Dev 44.93
100
0
−100
−200
−300
−400

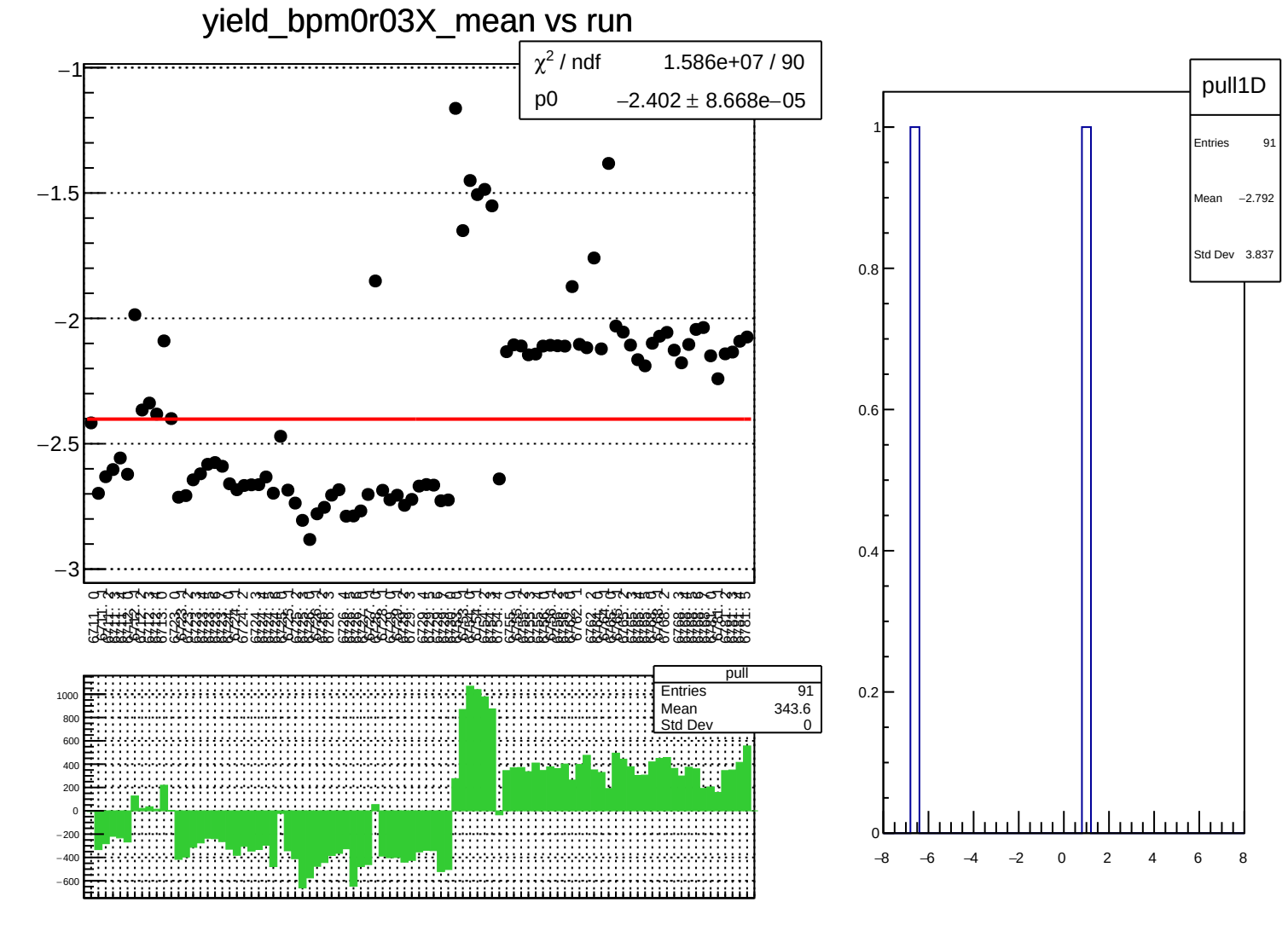

pull1D
Entries 91
Mean 1.805
Std Dev 4.415
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

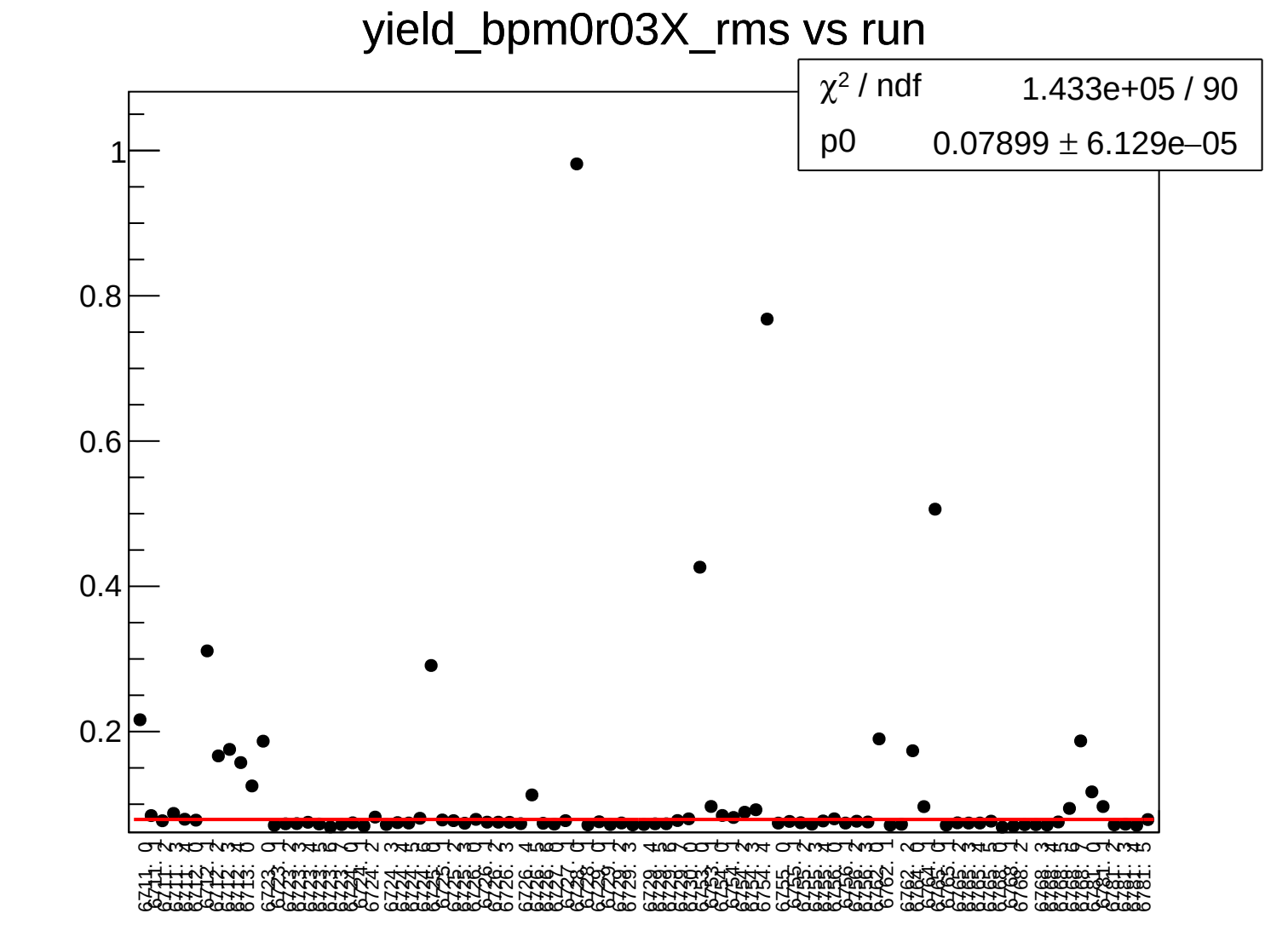

yield_bpm0l10X_rms vs run
χ² / ndf 1.495e+05 / 90
p0 0.01066 ± 8.29e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

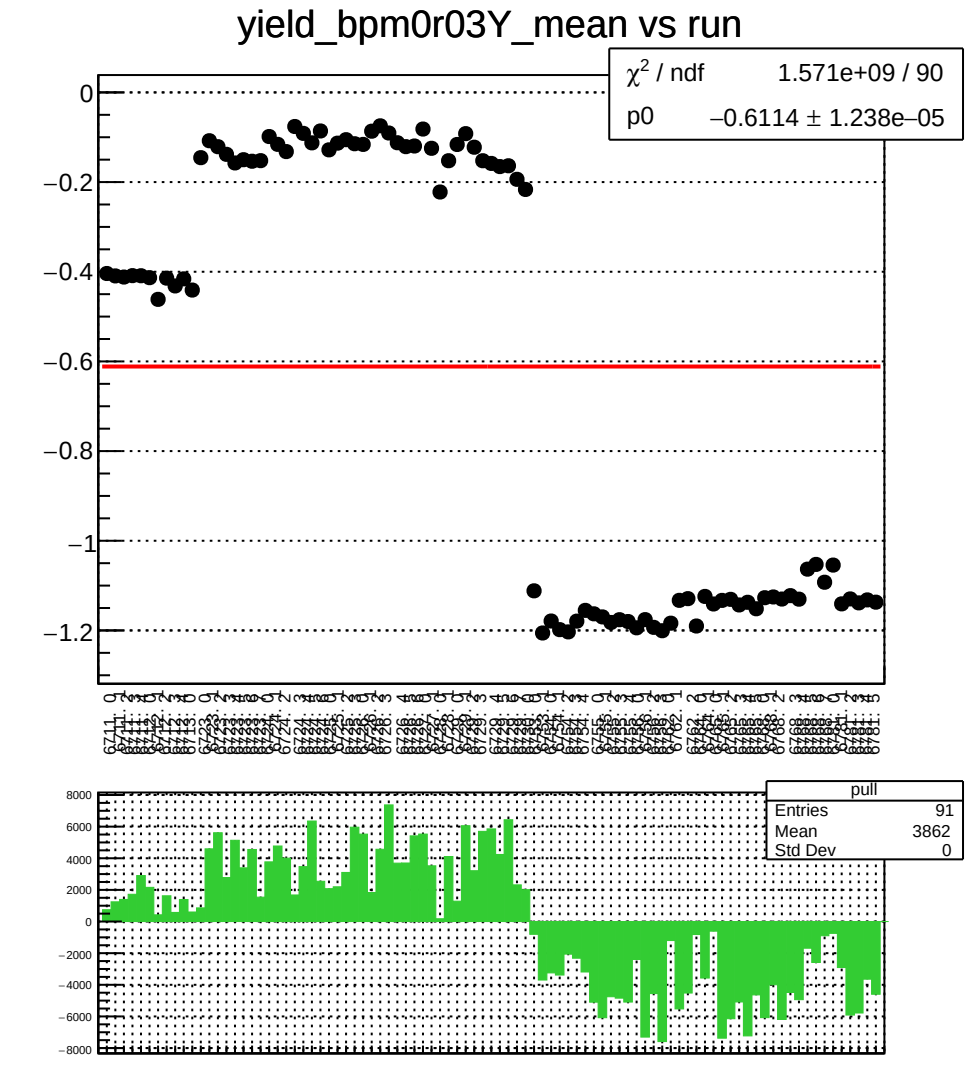

yield_bpm0l10Y_mean vs run
χ² / ndf 4.557e+07 / 90
p0 −0.3475 ± 5.211e−06
−0.22
−0.24
−0.26
−0.28
−0.3
−0.32
−0.34
−0.36
−0.38
−0.4
pull
Entries 91
Mean 187.4
Std Dev 0
1500
1000
500
0
−500
−1000

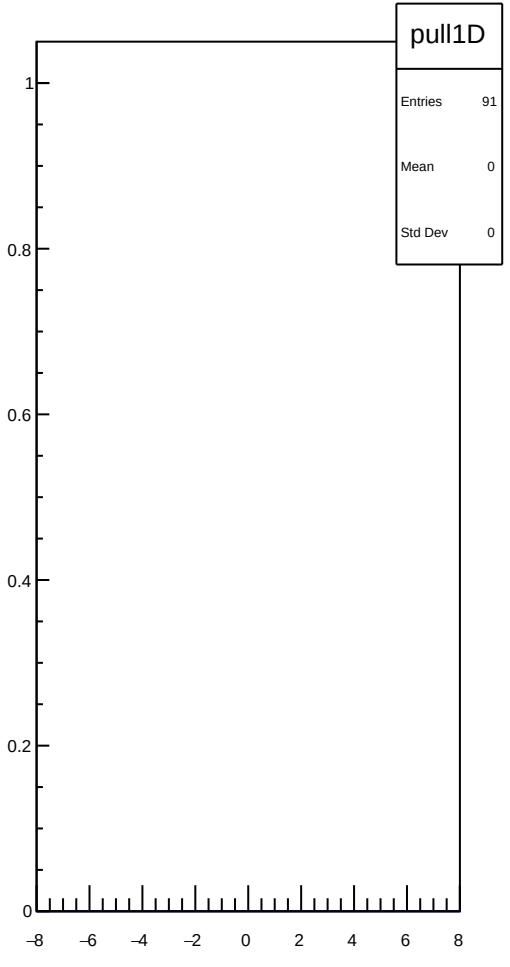

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

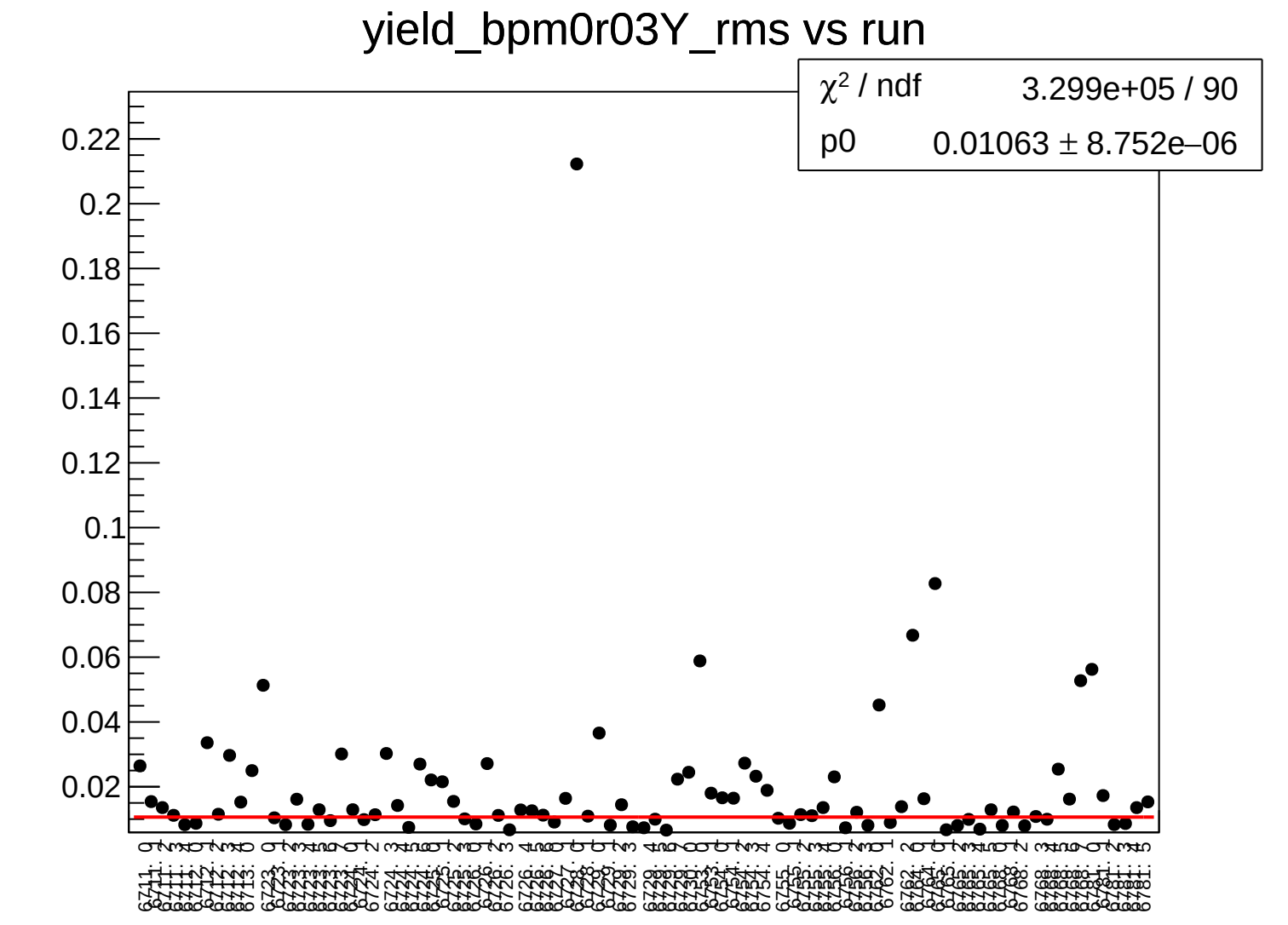

yield_bpm0l10Y_rms vs run
χ² / ndf 3.221e+05 / 90
p0 0.004486 ± 3.685e−06
0.12
0.1
0.08
0.06
0.04
0.02

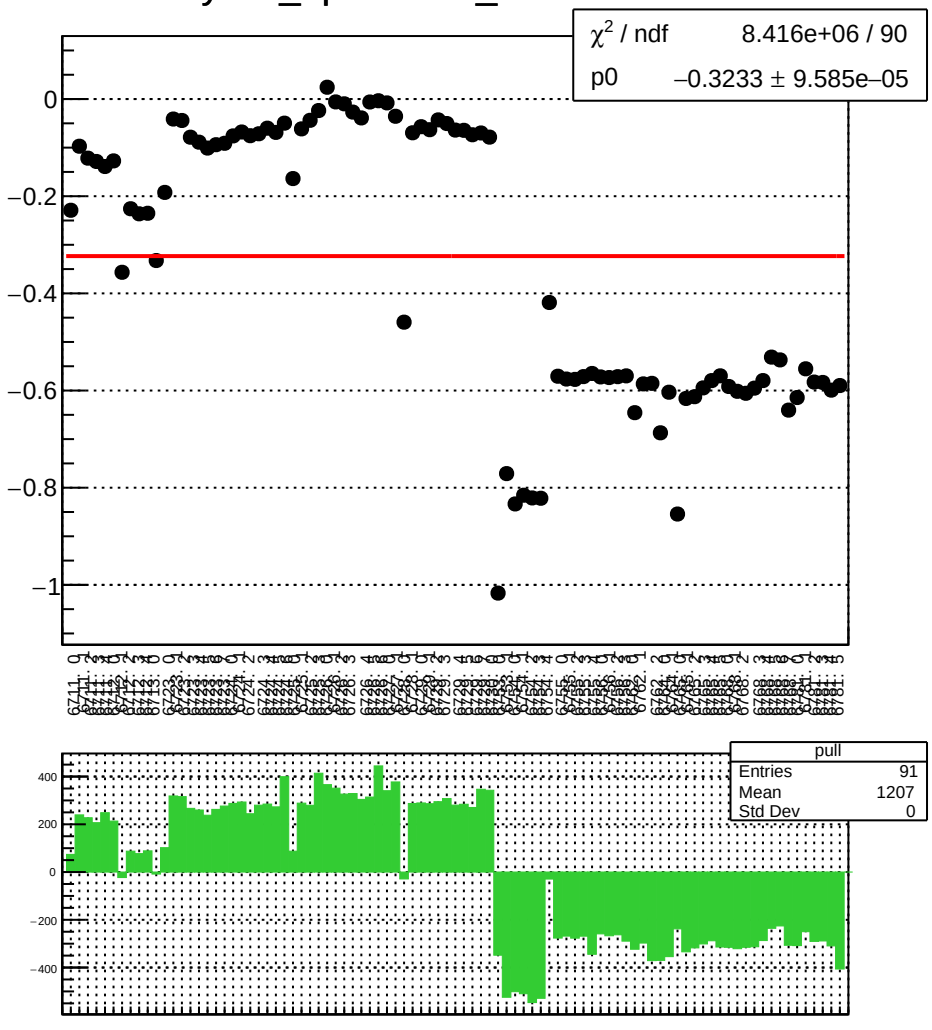

yield_bpm0r03X_mean vs run
χ² / ndf 1.586e+07 / 90
p0 −2.402 ± 8.668e−05
pull
Entries 91
Mean 343.6
Std Dev 0
pull1D
Entries 91
Mean −2.792
Std Dev 3.837

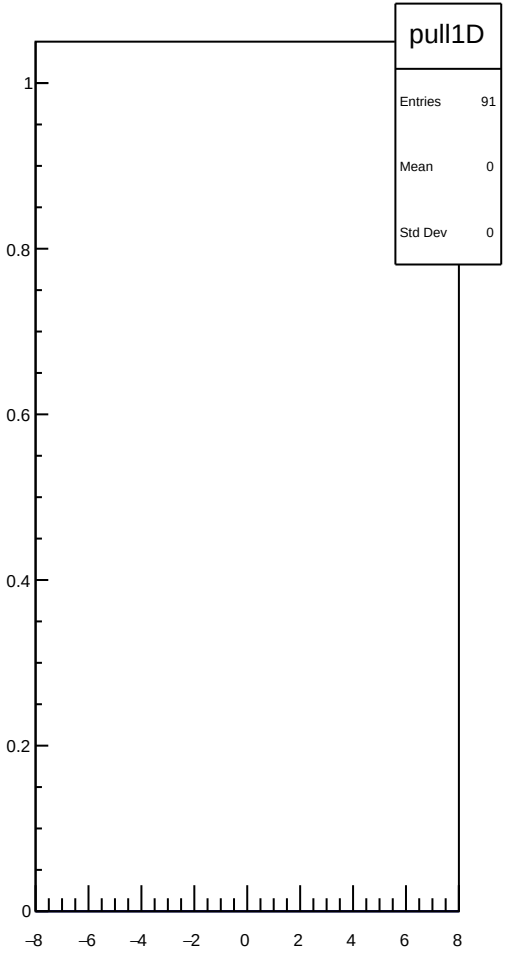

yield_bpm0r03X_rms vs run
χ^2 / ndf 1.433e+05 / 90
p0 0.07899 ± 6.129e−05
1
0.8
0.6
0.4
0.2

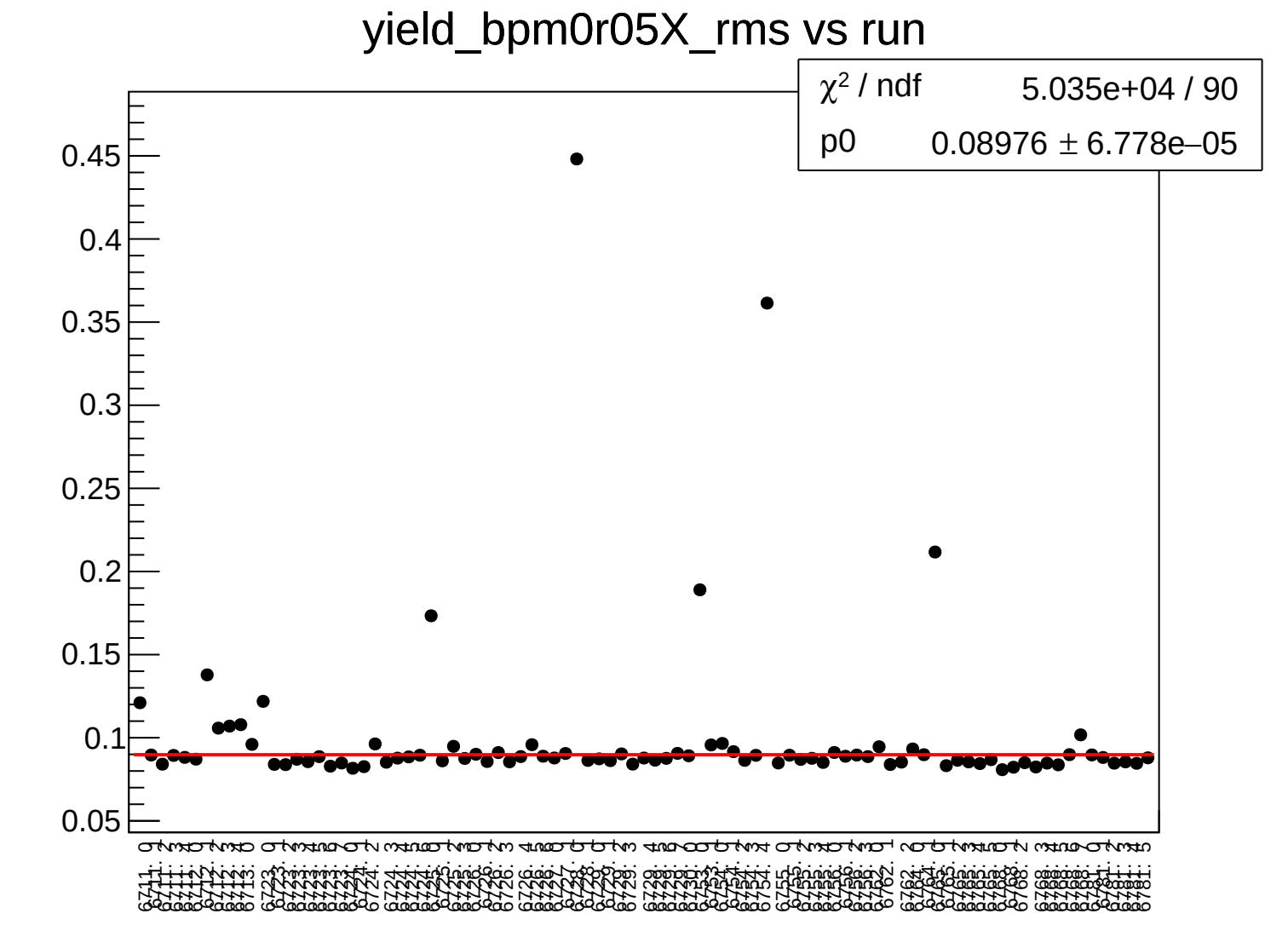

yield_bpm0r03Y_mean vs run
χ² / ndf 1.571e+09 / 90
p0 −0.6114 ± 1.238e−05
pull
Entries 91
Mean 3862
Std Dev 0

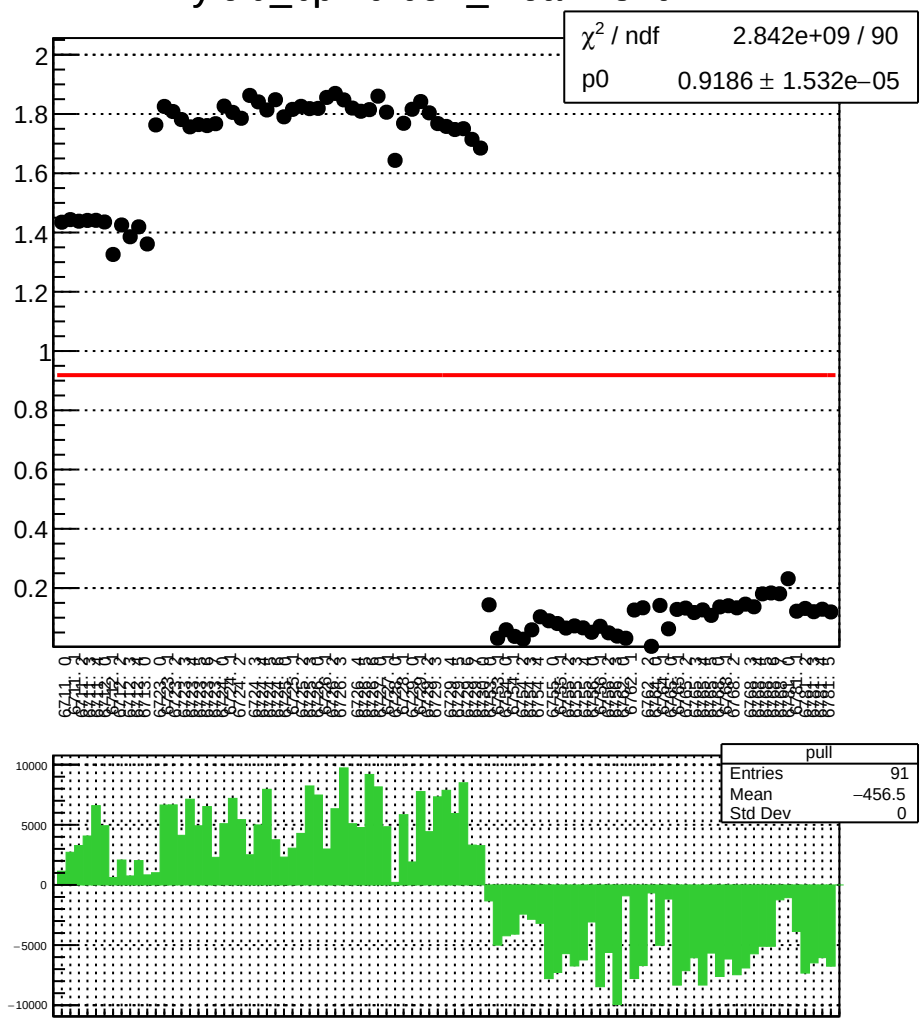

pull1D
Entries 91
Mean 0
Std Dev 0

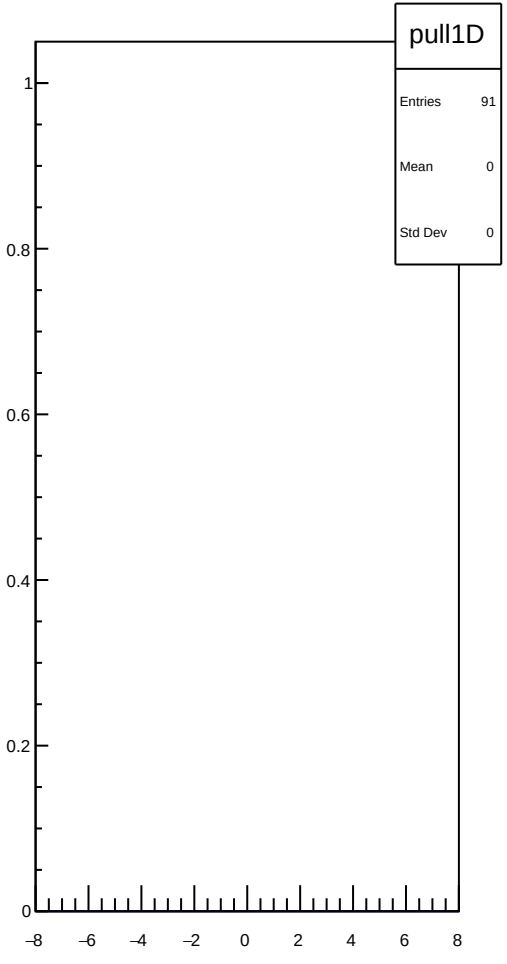

yield_bpm0r03Y_rms vs run
χ² / ndf 3.299e+05 / 90
p0 0.01063 ± 8.752e–06
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

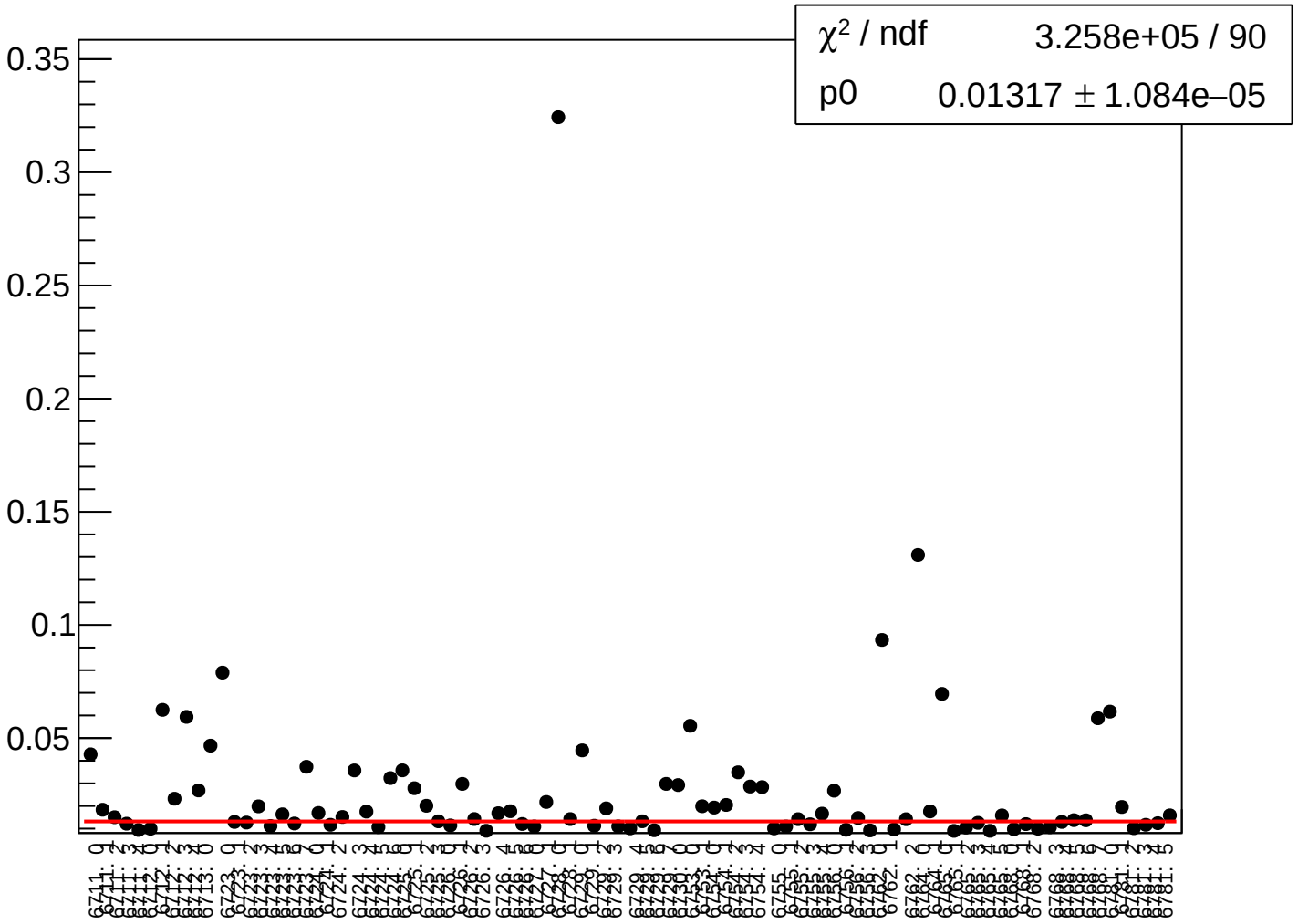

yield_bpm0r05X_mean vs run
χ² / ndf 8.416e+06 / 90
p0 −0.3233 ± 9.585e−05
pull
Entries 91
Mean 1207
Std Dev 0

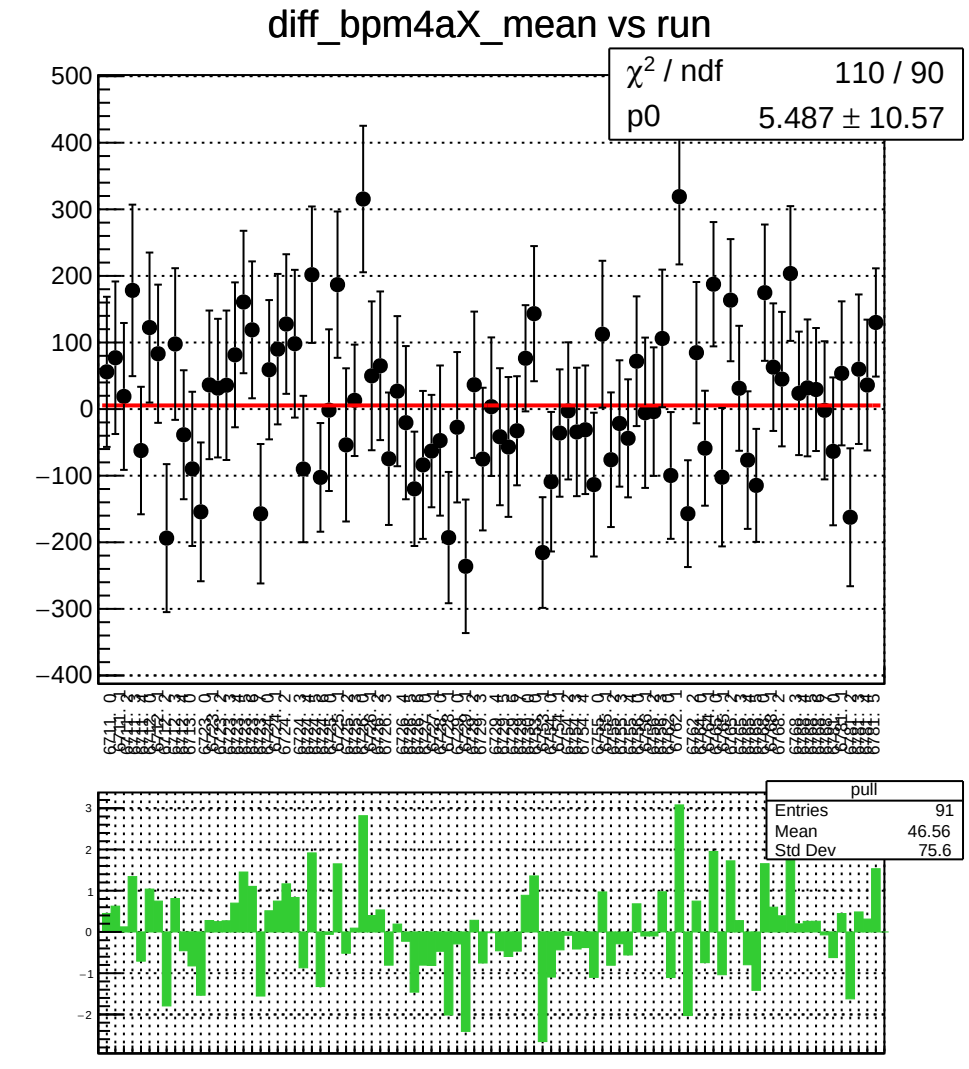

pull1D
Entries 91
Mean 0
Std Dev 0

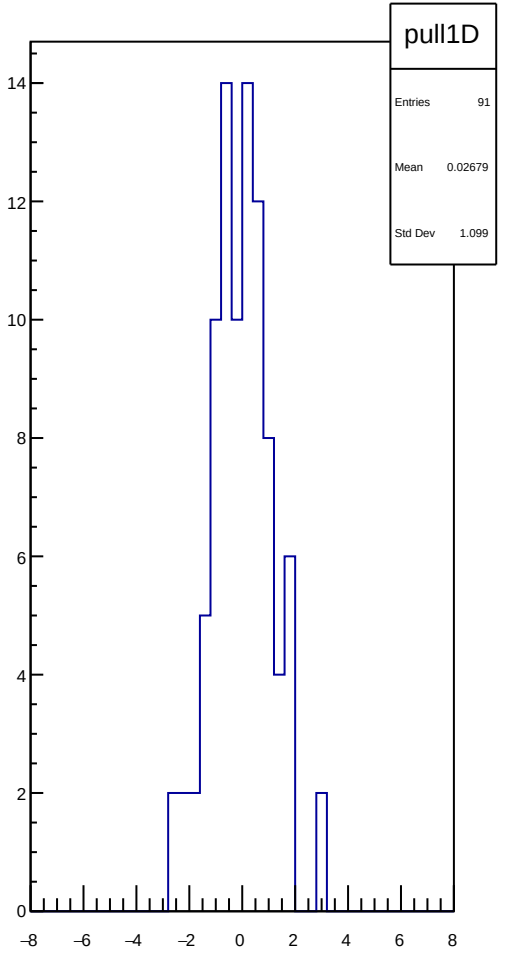

yield_bpm0r05X_rms vs run
χ^2 / ndf 5.035e+04 / 90
p0 0.08976 ± 6.778e–05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05


yield_bpm0r05Y_mean vs run
χ² / ndf 2.842e+09 / 90
p0 0.9186 ± 1.532e−05
pull
Entries 91
Mean −456.5
Std Dev 0

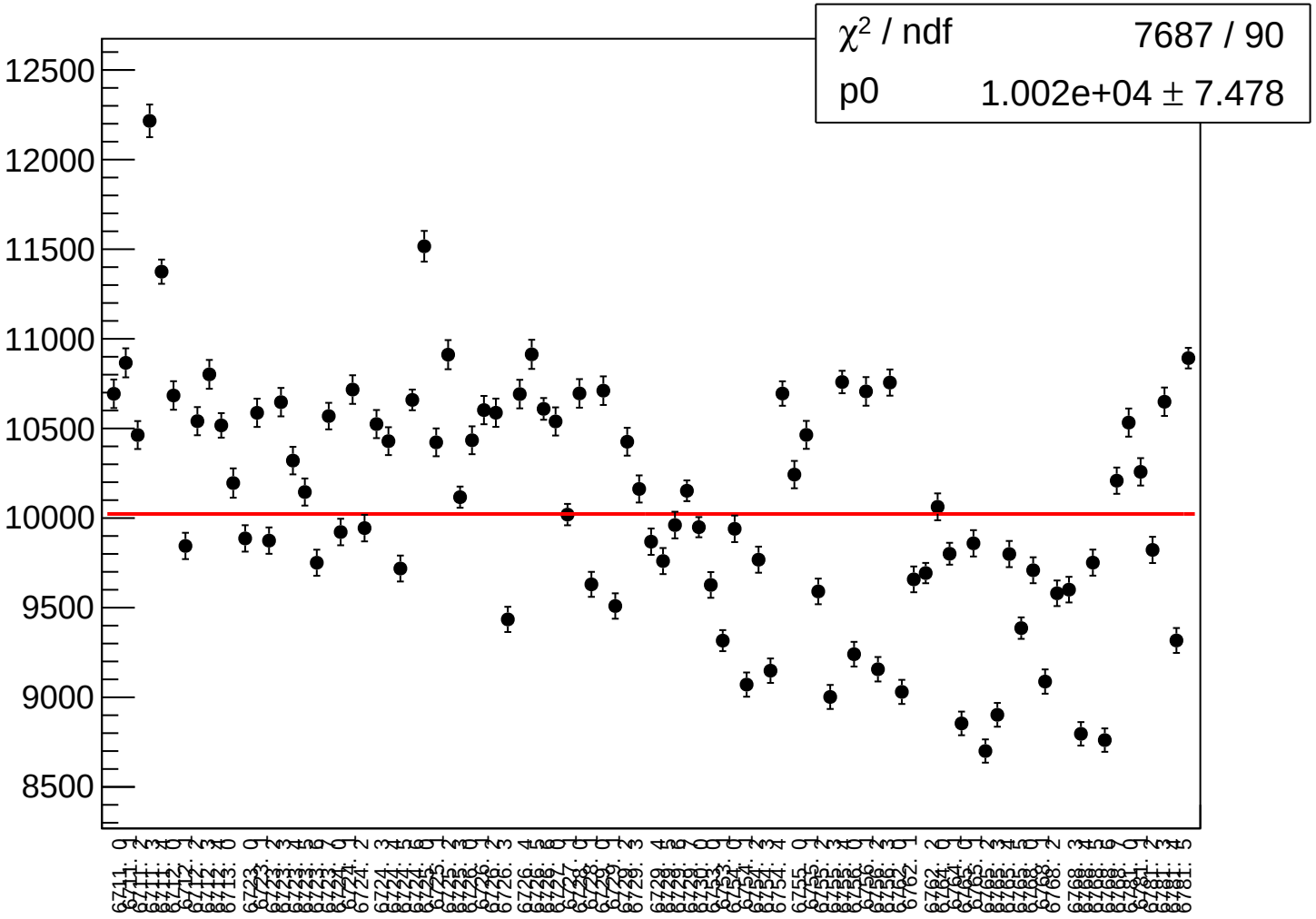

pull1D
Entries 91
Mean 0
Std Dev 0

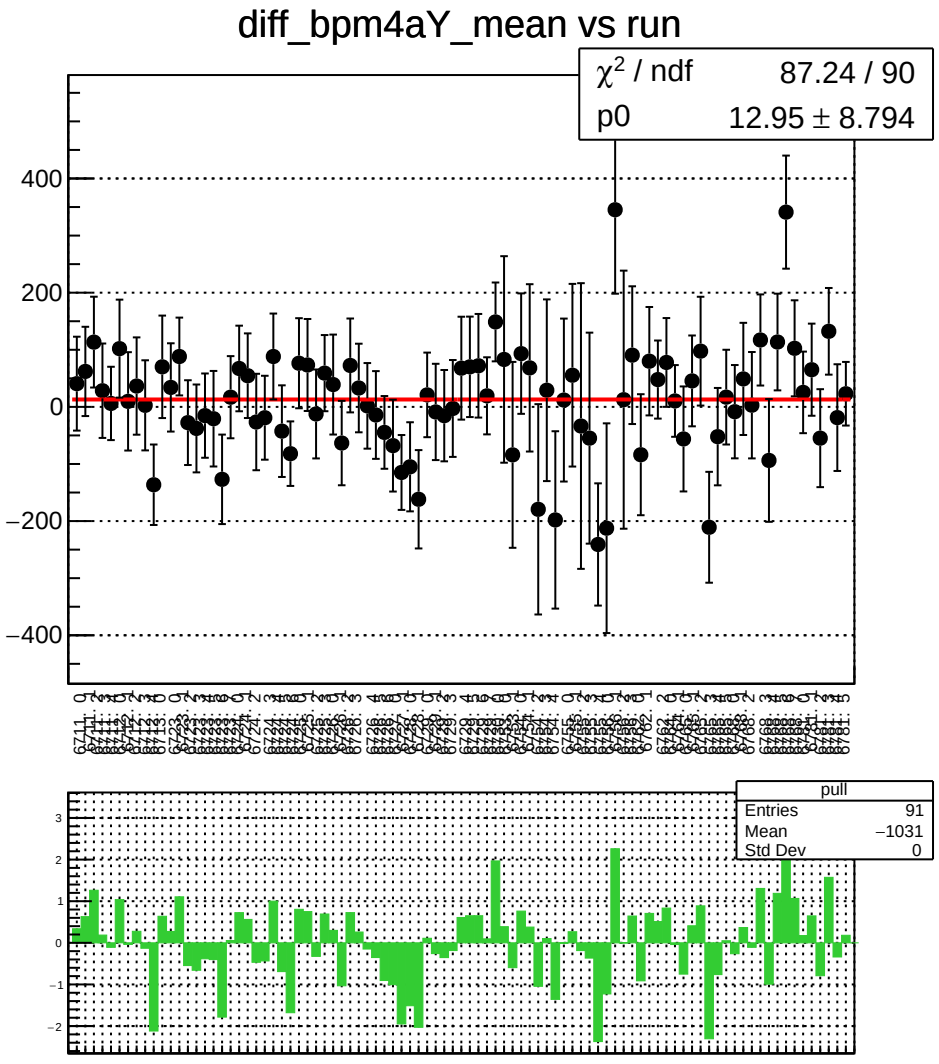

yield_bpm0r05Y_rms vs run
χ² / ndf 3.258e+05 / 90
p0 0.01317 ± 1.084e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

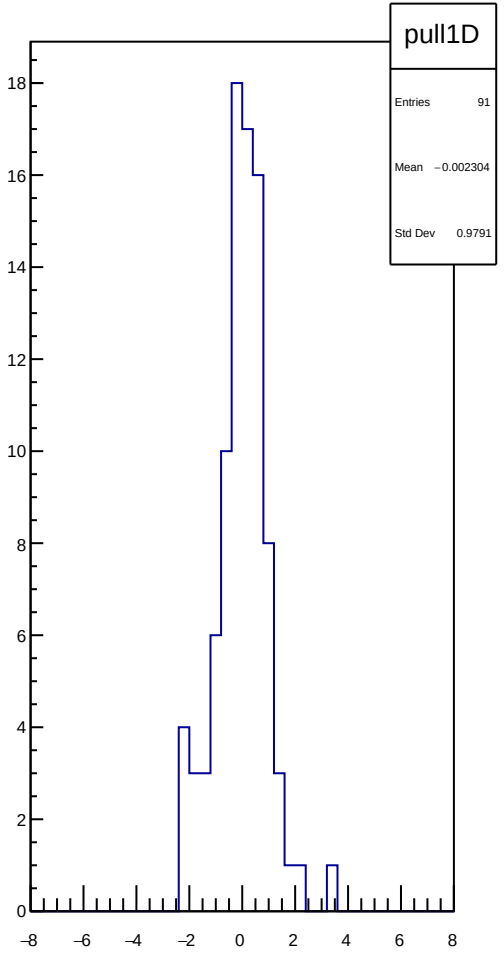

diff_bpm4aX_mean vs run
χ² / ndf 110 / 90
p0 5.487 ± 10.57
pull
Entries 91
Mean 46.56
Std Dev 75.6

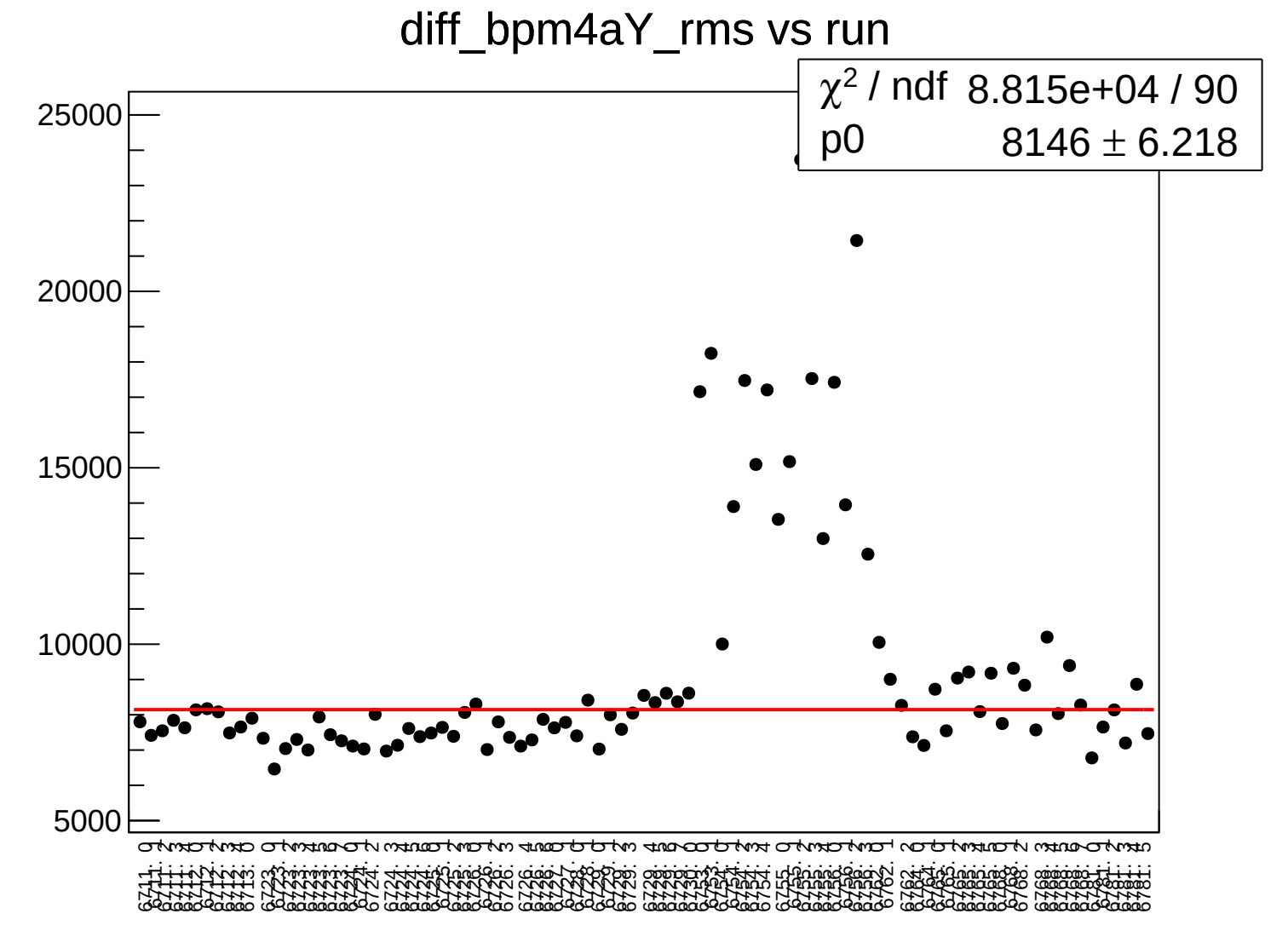

pull1D
Entries 91
Mean 0.02679
Std Dev 1.099

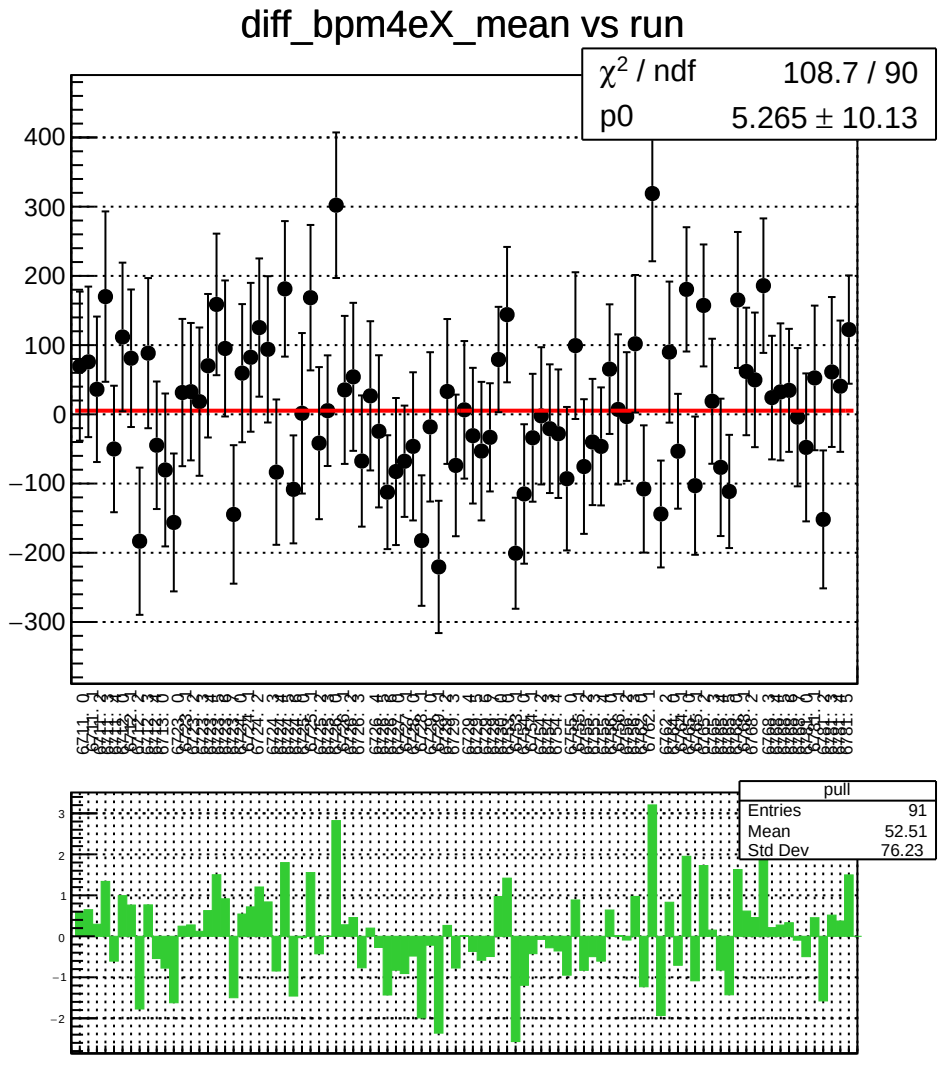
diff_bpm4aX_rms vs run

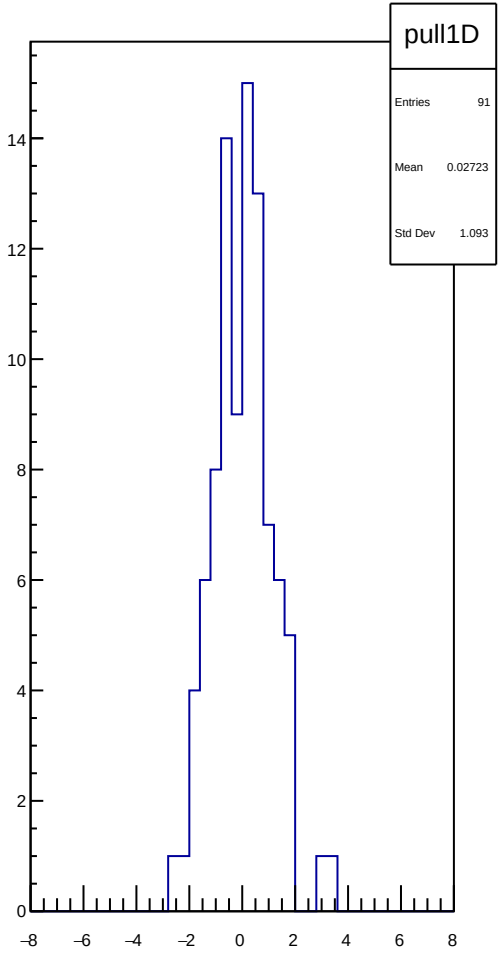



diff_bpm4aY_mean vs run
χ² / ndf 87.24 / 90
p0 12.95 ± 8.794
400
200
0
−200
−400
pull
Entries 91
Mean −1031
Std Dev 0
3
2
1
0
−1
−2

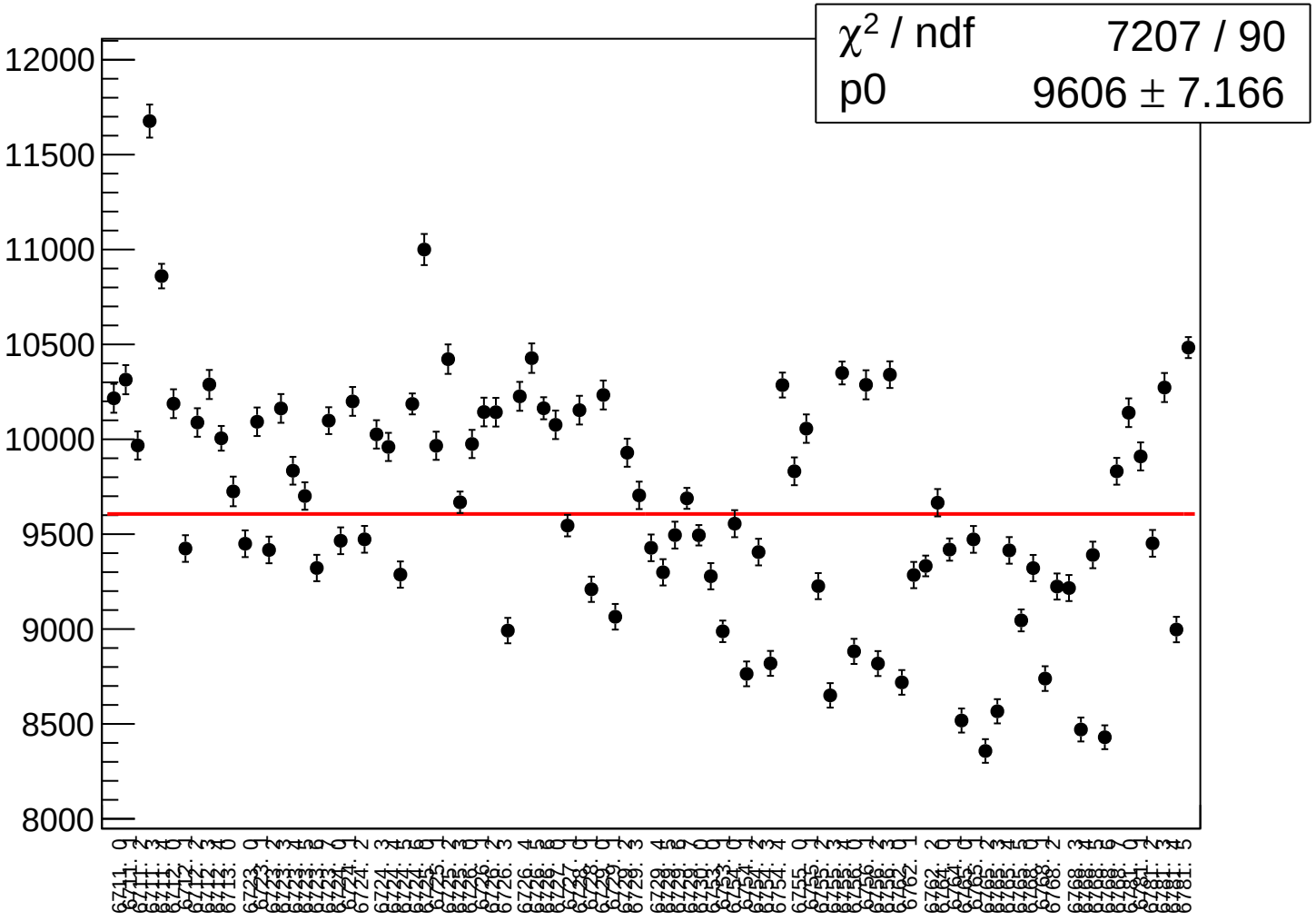

pull1D
Entries 91
Mean −0.002304
Std Dev 0.9791
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

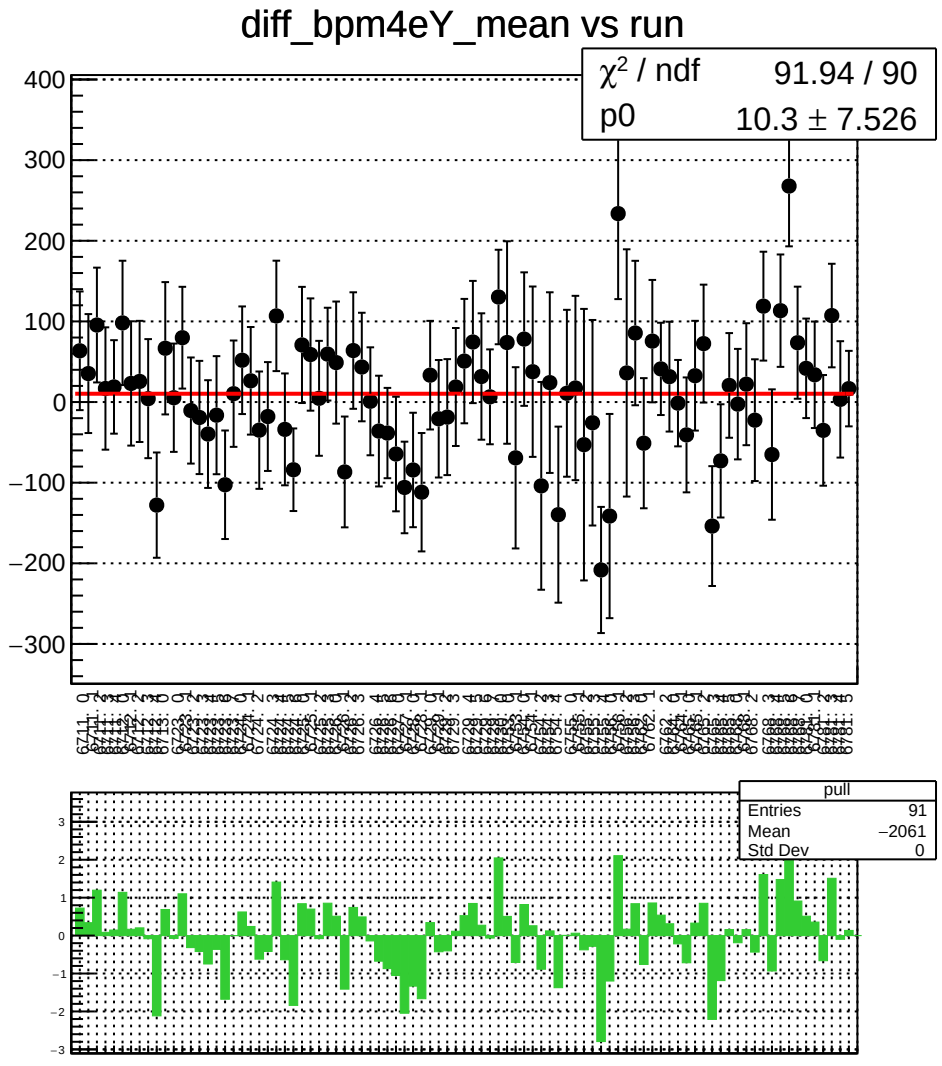

diff_bpm4aY_rms vs run
χ² / ndf 8.815e+04 / 90
p0 8146 ± 6.218
25000
20000
15000
10000
5000

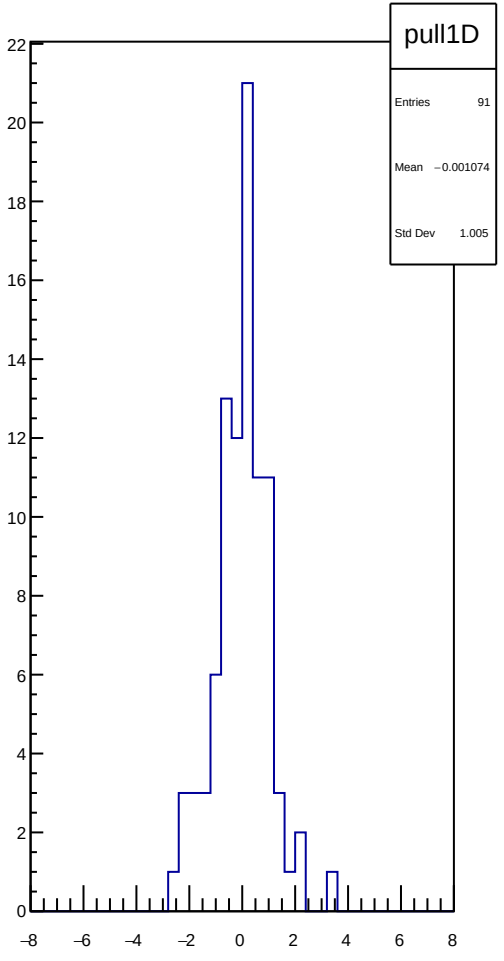

diff_bpm4eX_mean vs run
χ^2 / ndf 108.7 / 90
p0 5.265 ± 10.13
pull
Entries 91
Mean 52.51
Std Dev 76.23

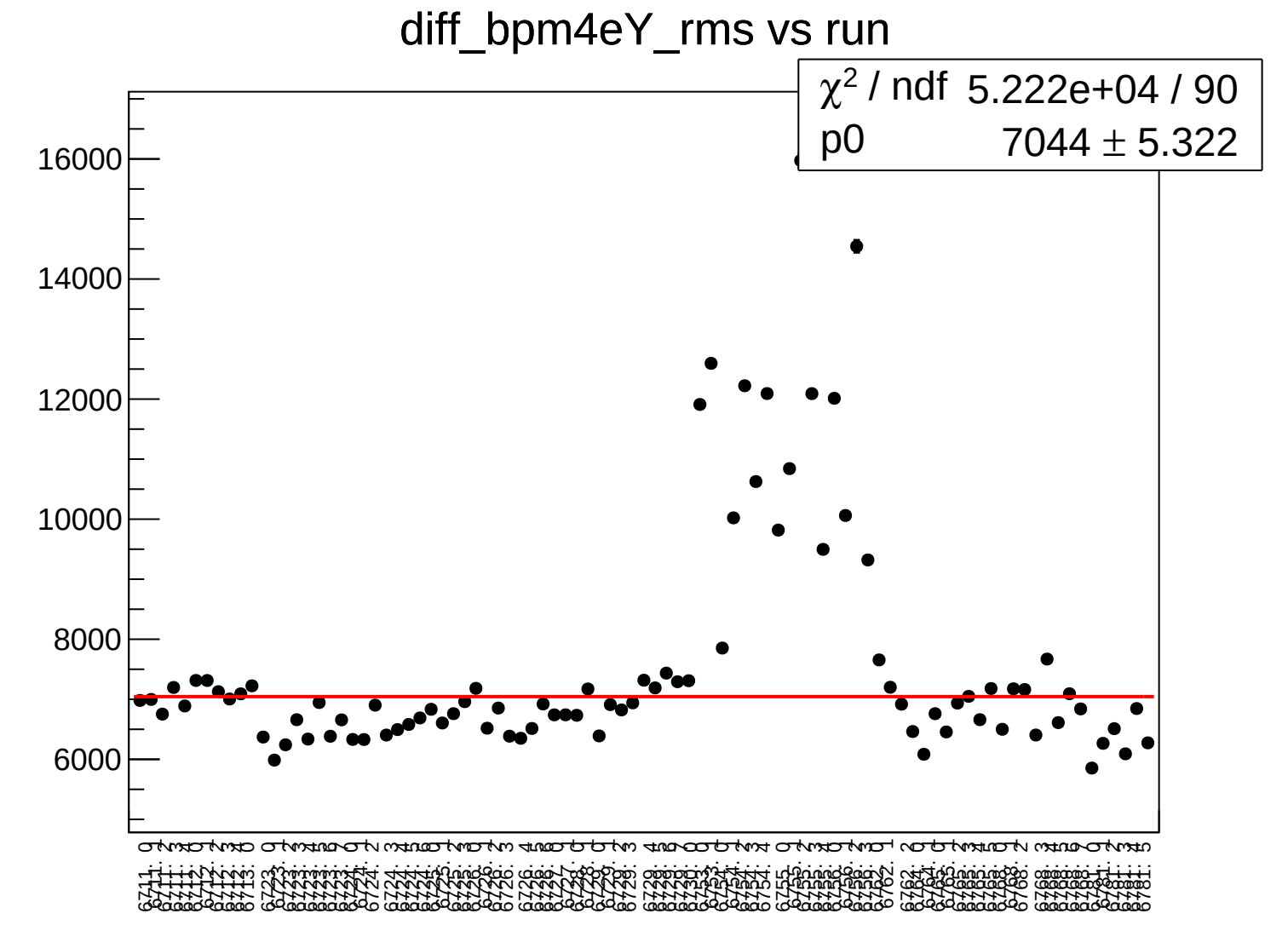

pull1D
Entries 91
Mean 0.02723
Std Dev 1.093

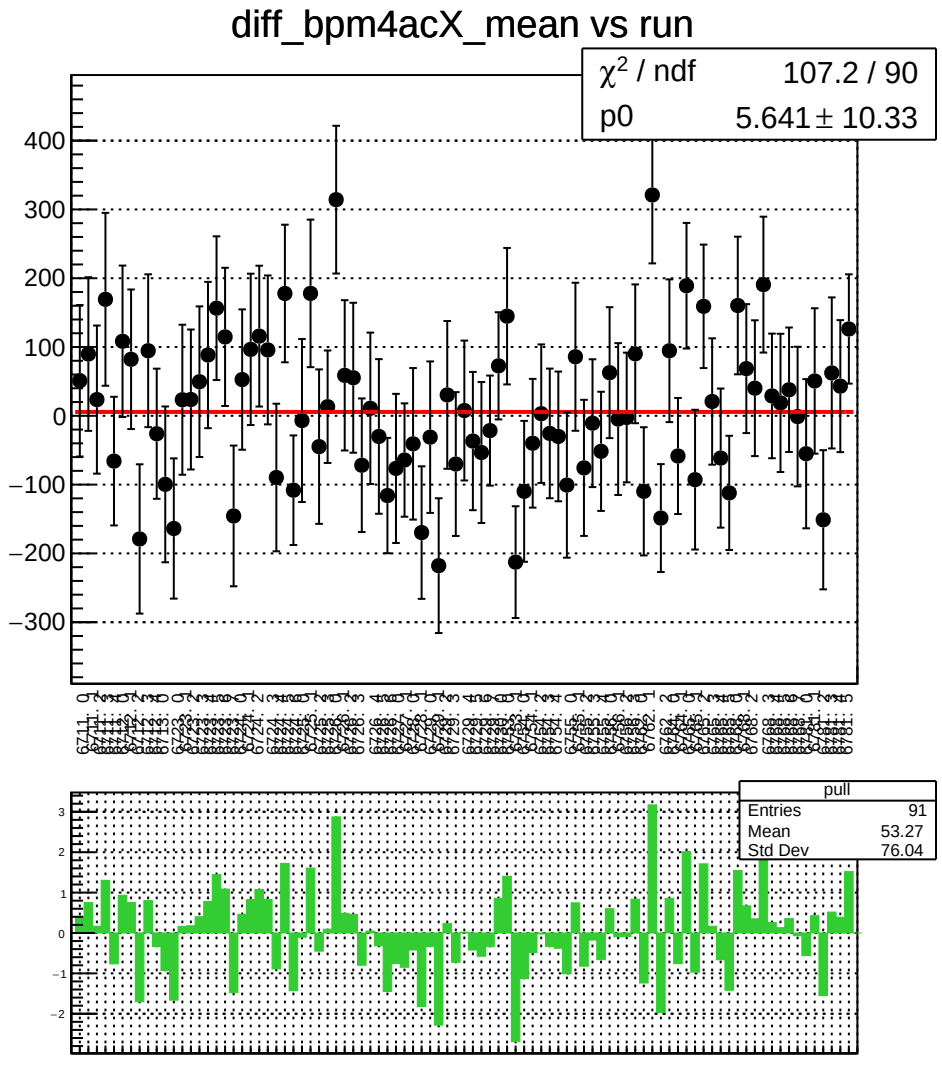
diff_bpm4eX_rms vs run

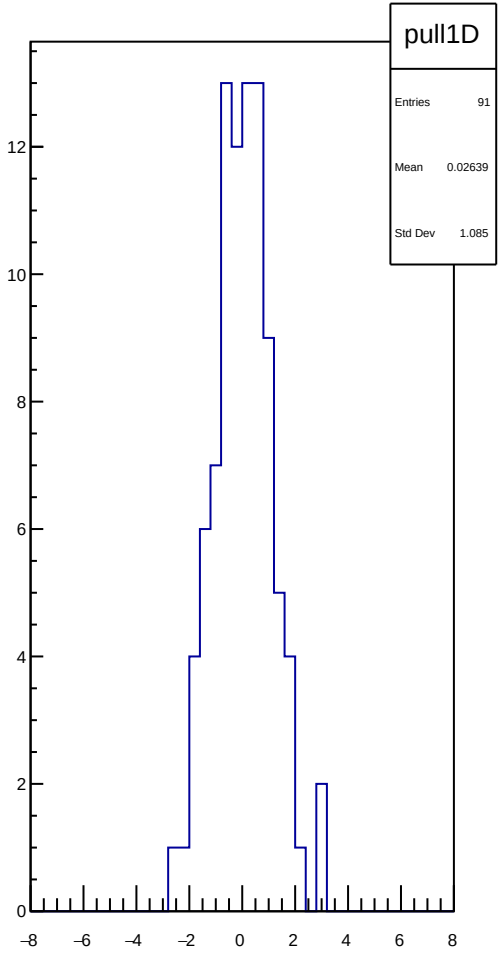


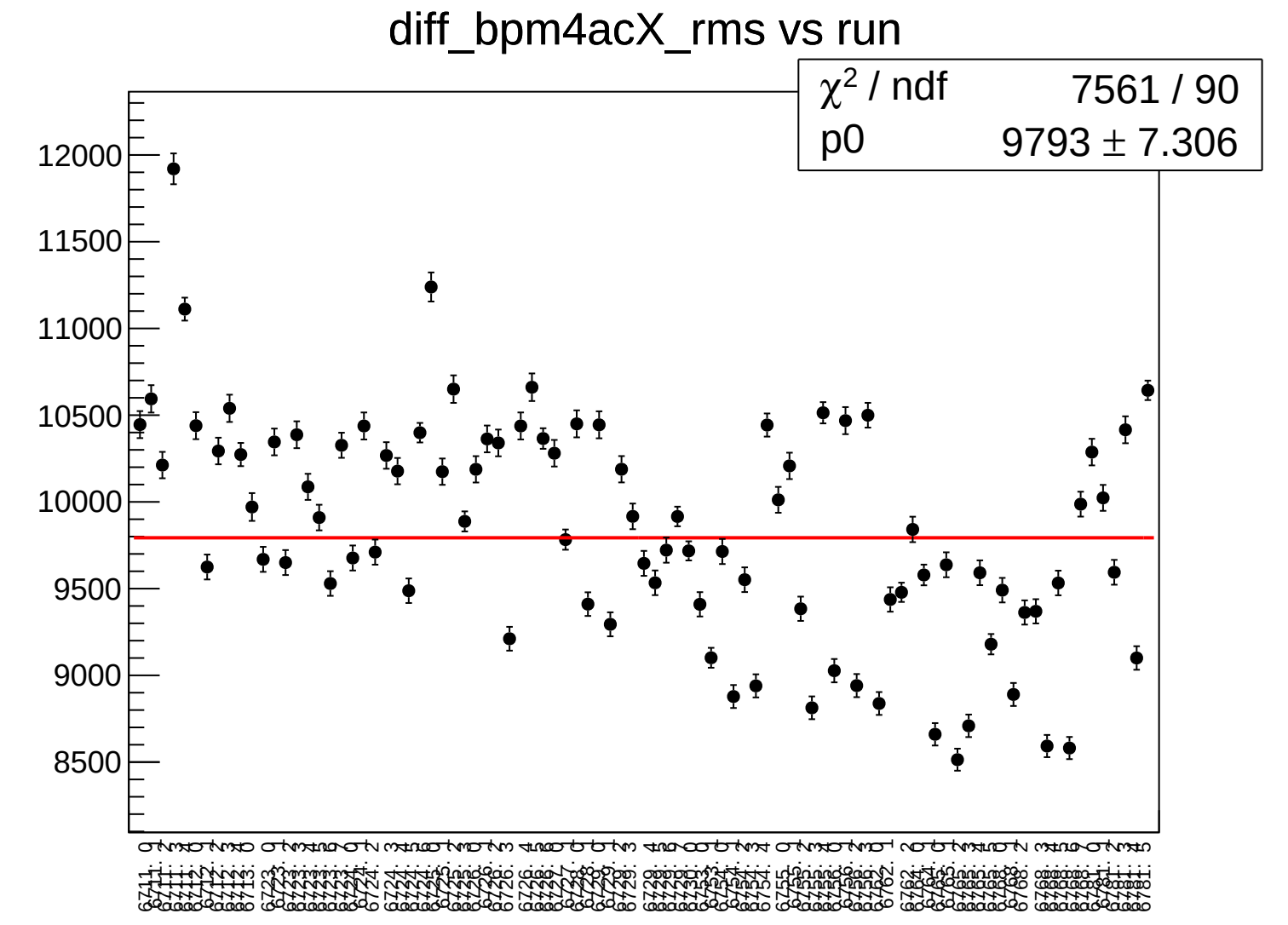

diff_bpm4eY_mean vs run
χ² / ndf 91.94 / 90
p0 10.3 ± 7.526
pull
Entries 91
Mean −2061
Std Dev 0

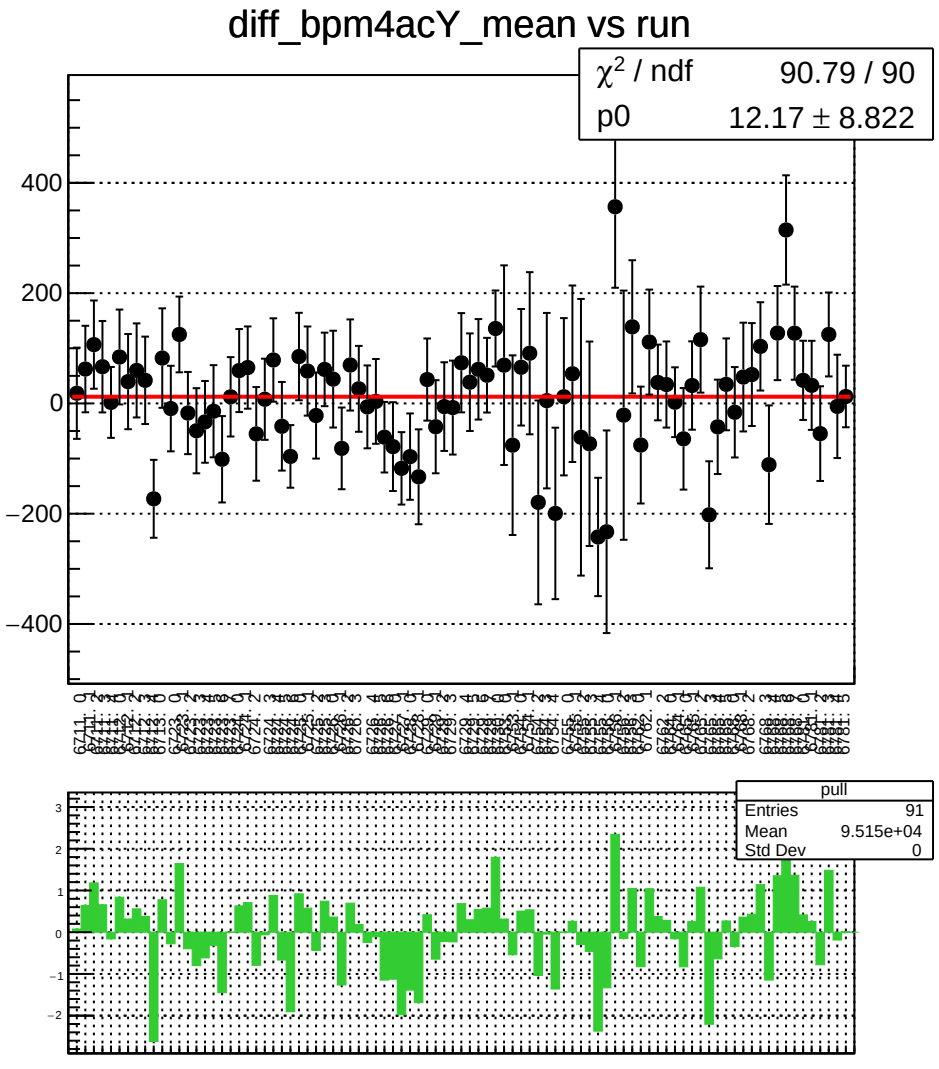

pull1D
Entries 91
Mean −0.001074
Std Dev 1.005

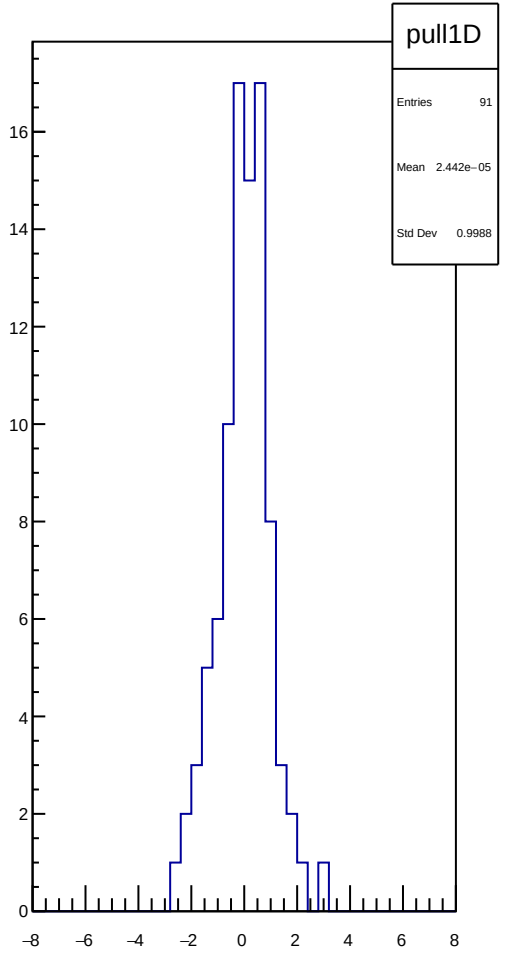

diff_bpm4eY_rms vs run
χ^2 / ndf 5.222e+04 / 90
p0 7044 ± 5.322
16000
14000
12000
10000
8000
6000

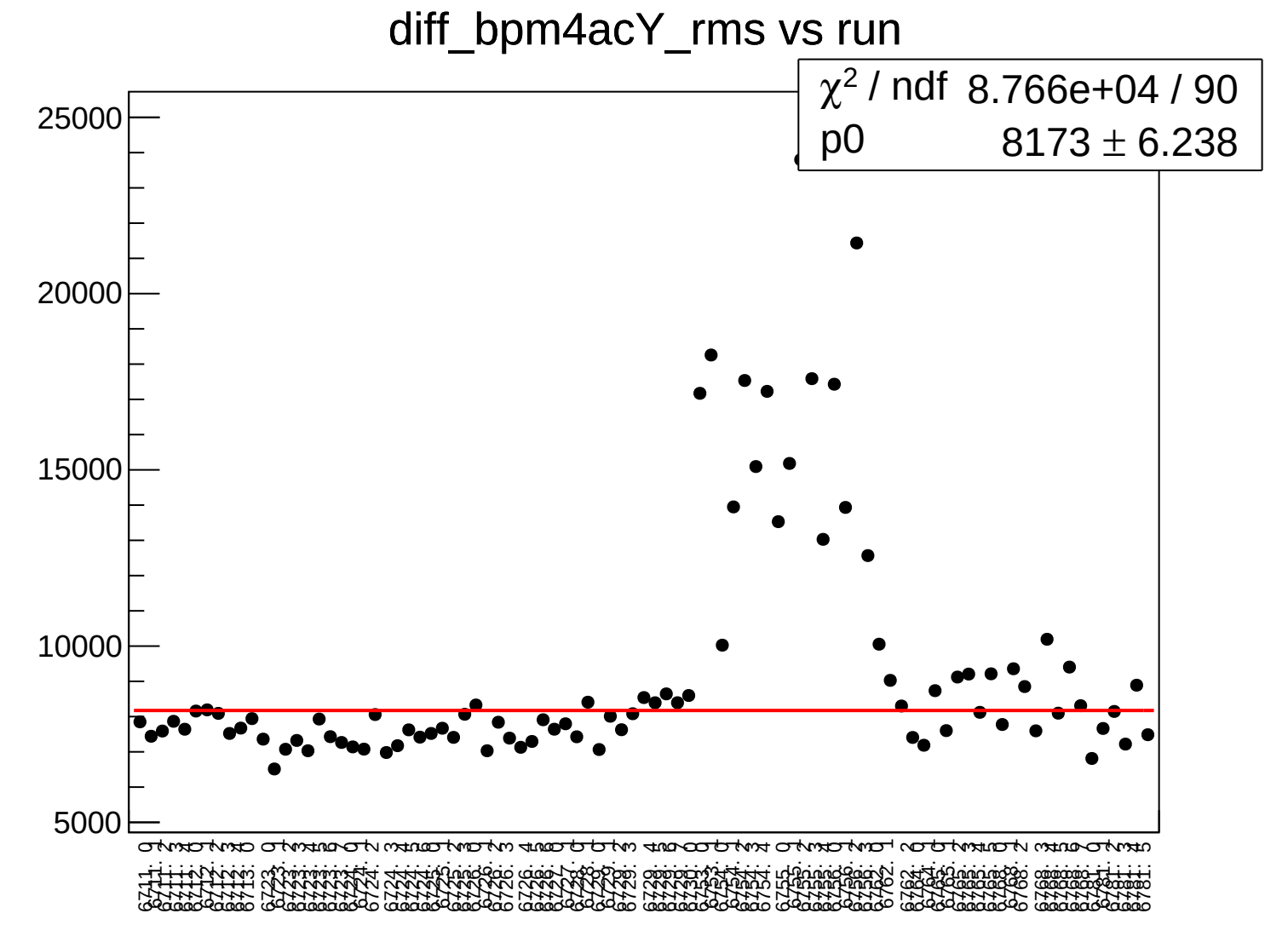

diff_bpm4acX_mean vs run
χ^2 / ndf 107.2 / 90
p0 5.641 ± 10.33
pull
Entries 91
Mean 53.27
Std Dev 76.04

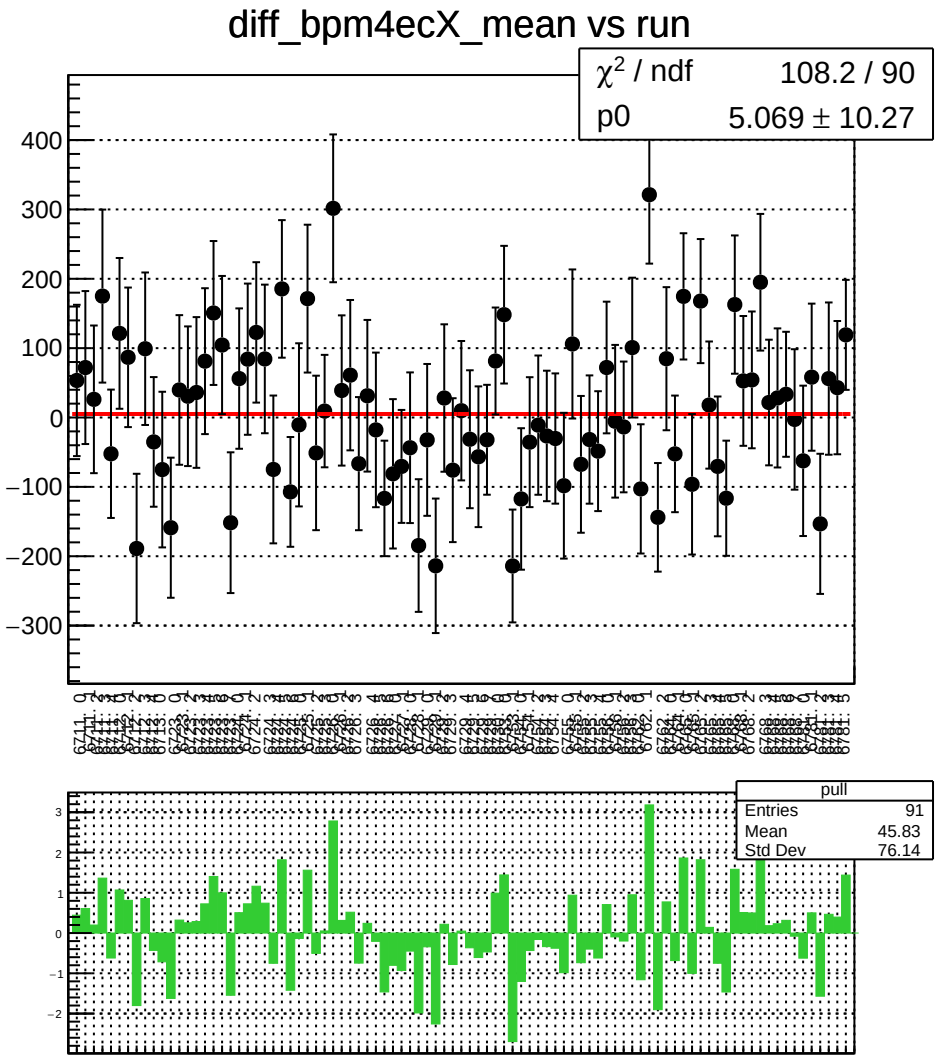

pull1D
Entries 91
Mean 0.02639
Std Dev 1.085

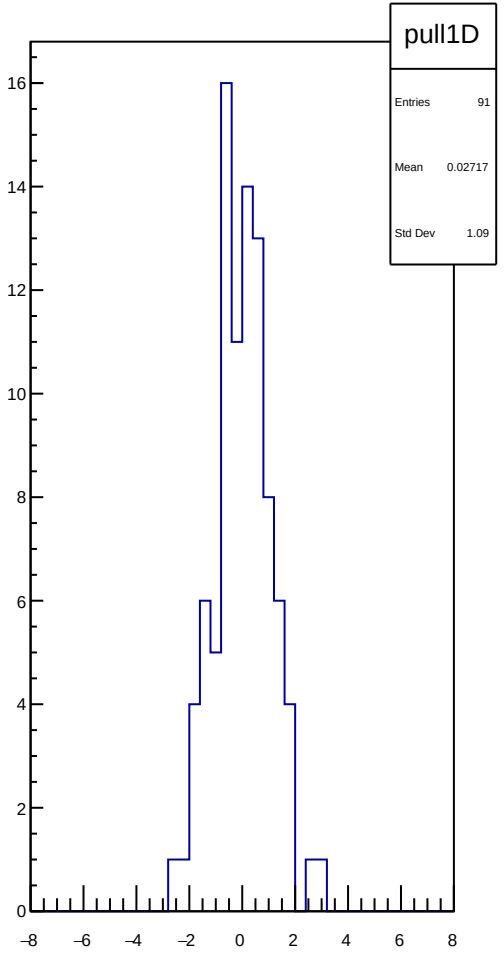

diff_bpm4acX_rms vs run
χ² / ndf 7561 / 90
p0 9793 ± 7.306
12000
11500
11000
10500
10000
9500
9000
8500

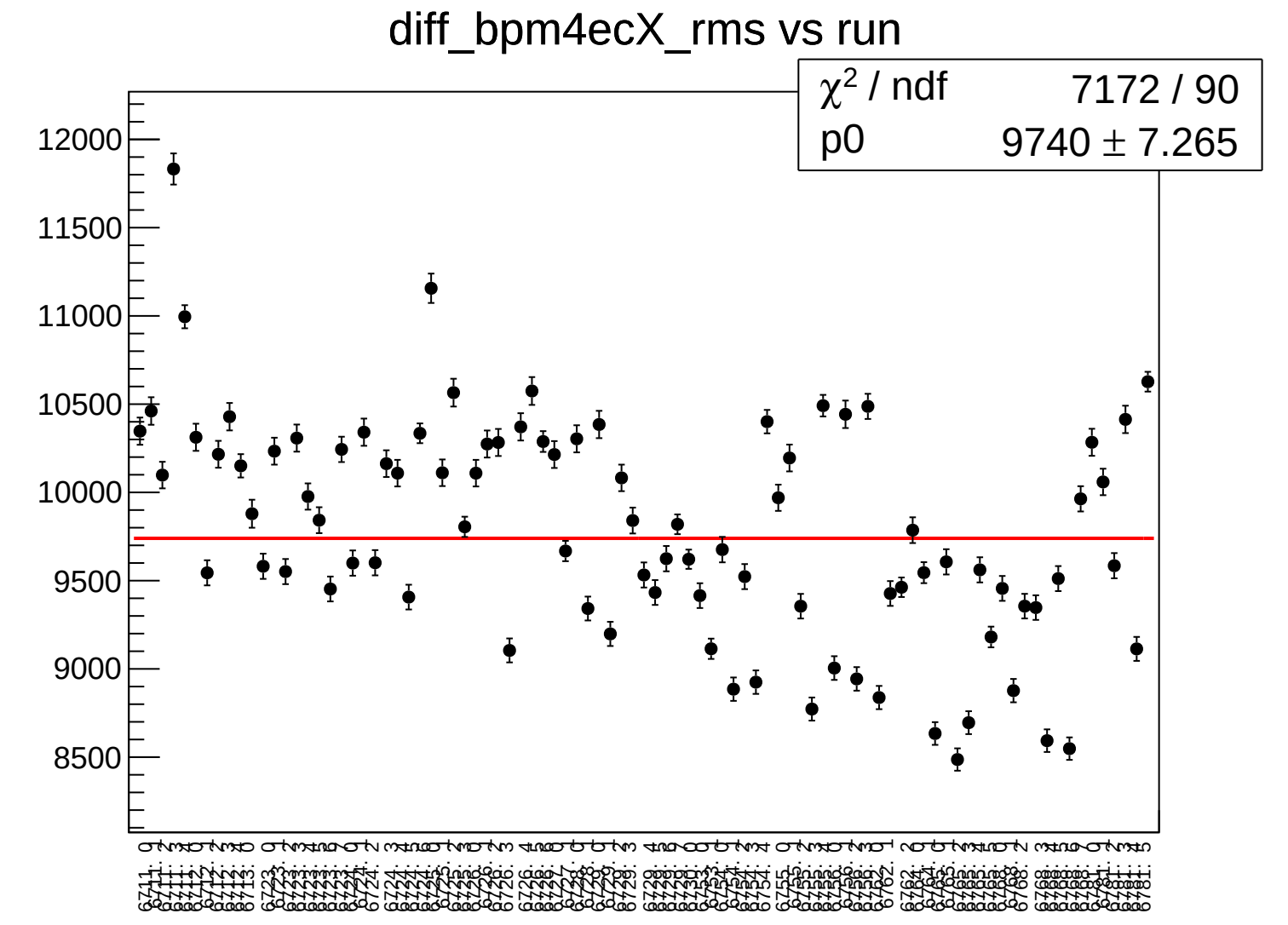

diff_bpm4acY_mean vs run
χ² / ndf 90.79 / 90
p0 12.17 ± 8.822
400
200
0
−200
−400
pull
Entries 91
Mean 9.515e+04
Std Dev 0
3
2
1
0
−1
−2

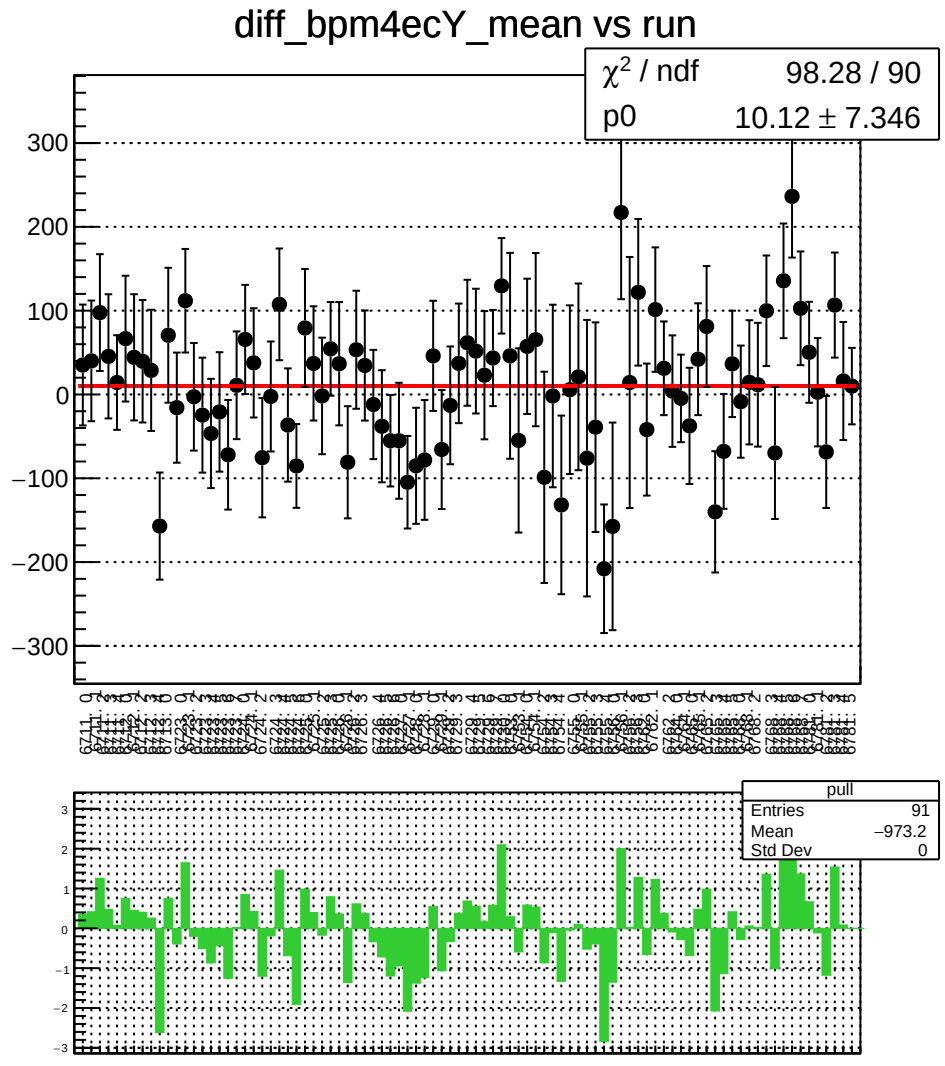

pull1D
Entries 91
Mean 2.442e−05
Std Dev 0.9988
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

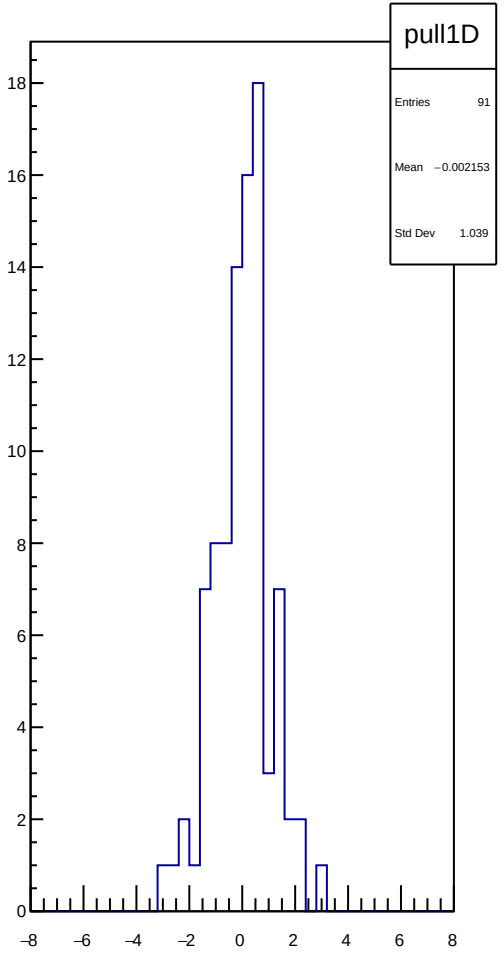

diff_bpm4acY_rms vs run
χ² / ndf 8.766e+04 / 90
p0 8173 ± 6.238
25000
20000
15000
10000
5000

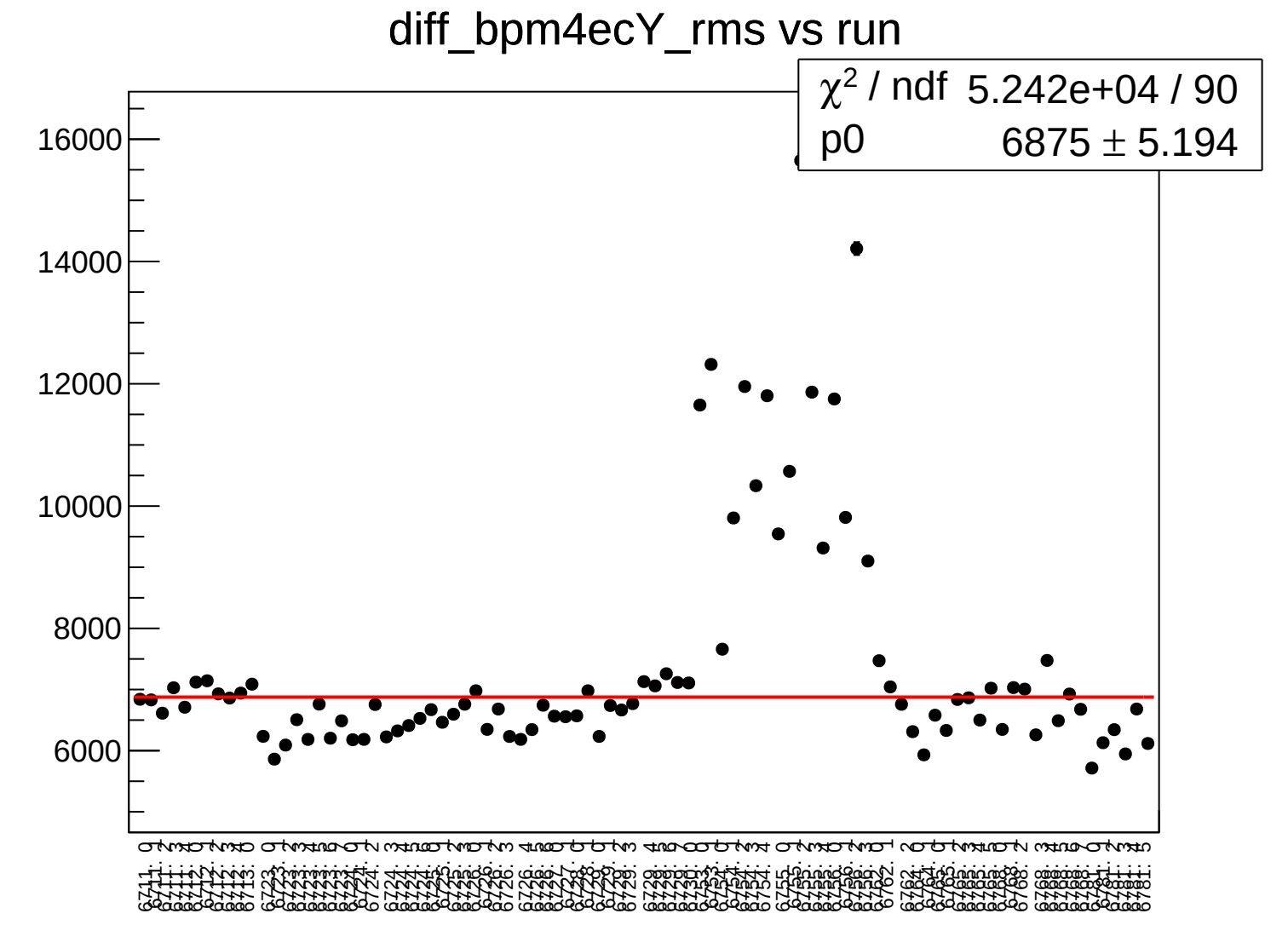

diff_bpm4ecX_mean vs run
χ² / ndf 108.2 / 90
p0 5.069 ± 10.27
pull
Entries 91
Mean 45.83
Std Dev 76.14

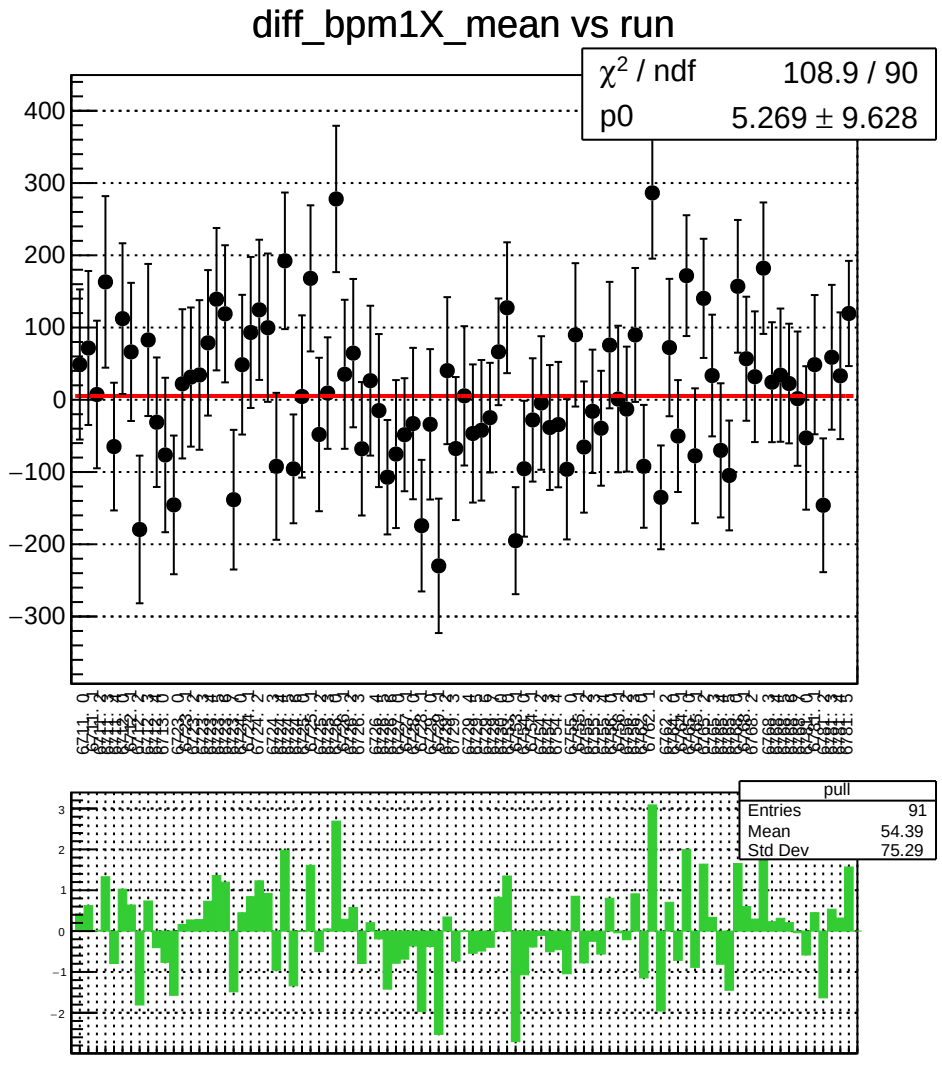

pull1D
Entries 91
Mean 0.02717
Std Dev 1.09

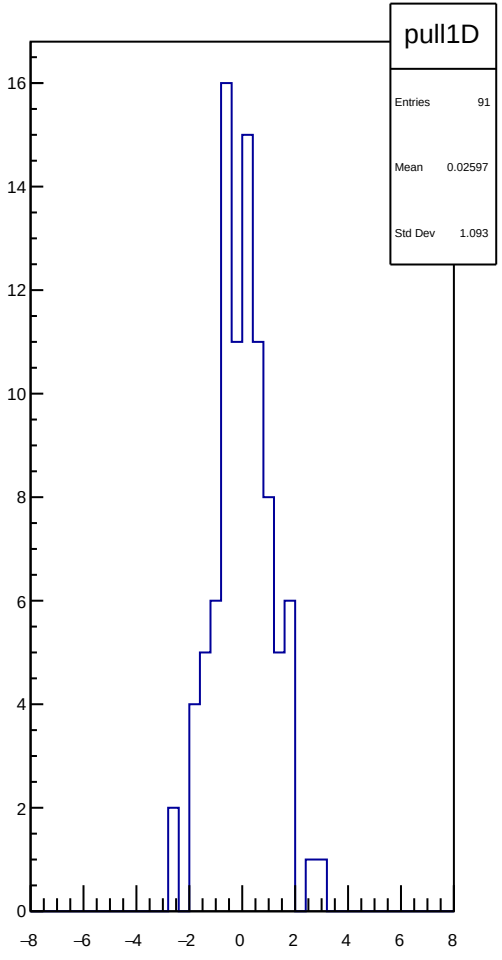

diff_bpm4ecX_rms vs run
χ² / ndf 7172 / 90
p0 9740 ± 7.265
12000
11500
11000
10500
10000
9500
9000
8500

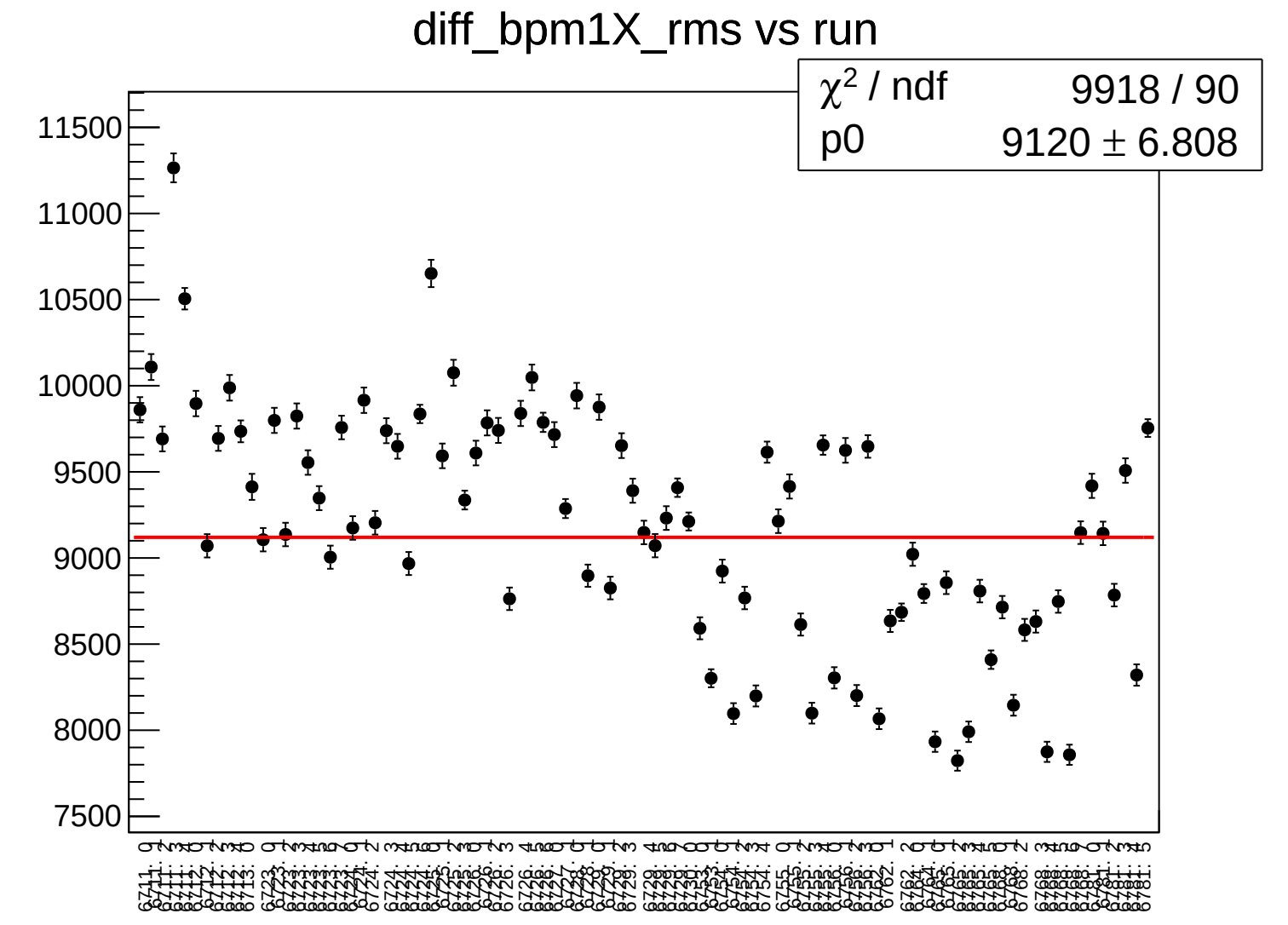

diff_bpm4ecY_mean vs run
χ^2 / ndf 98.28 / 90
p0 10.12 ± 7.346
pull
Entries 91
Mean −973.2
Std Dev 0

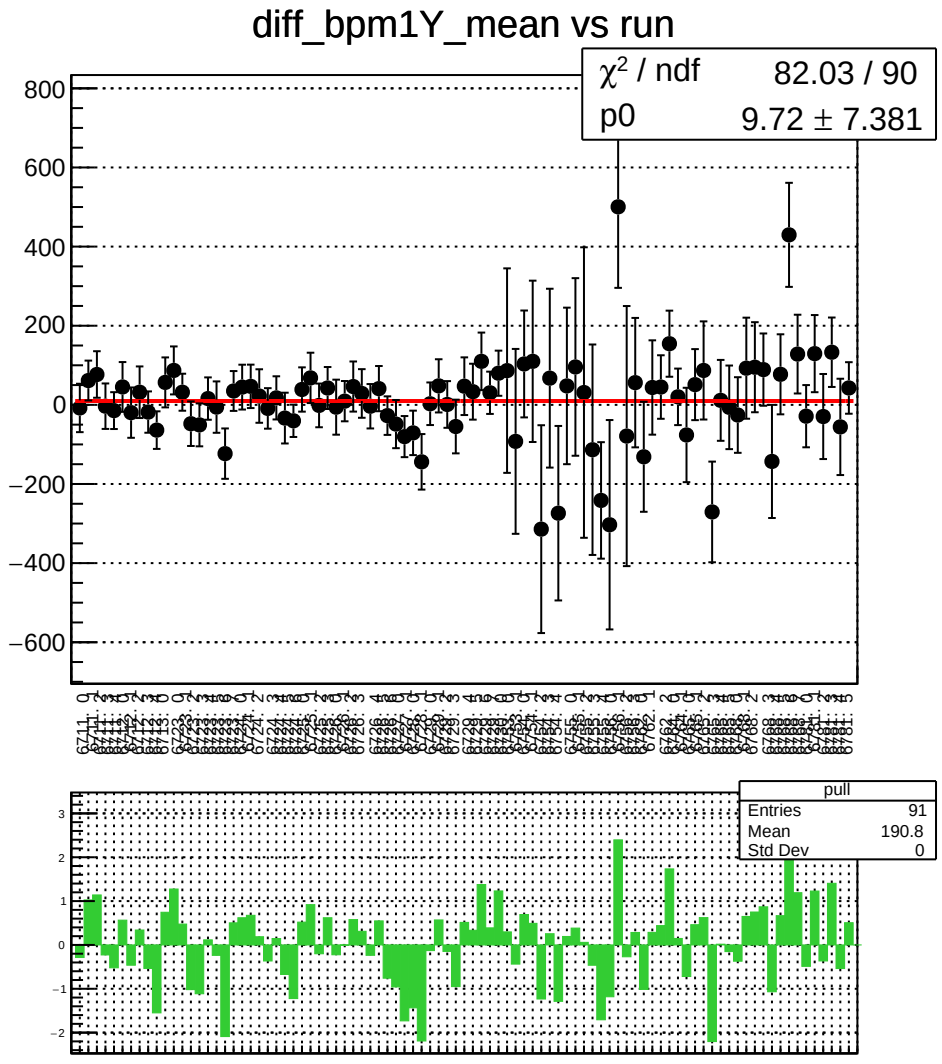

pull1D
Entries 91
Mean −0.002153
Std Dev 1.039

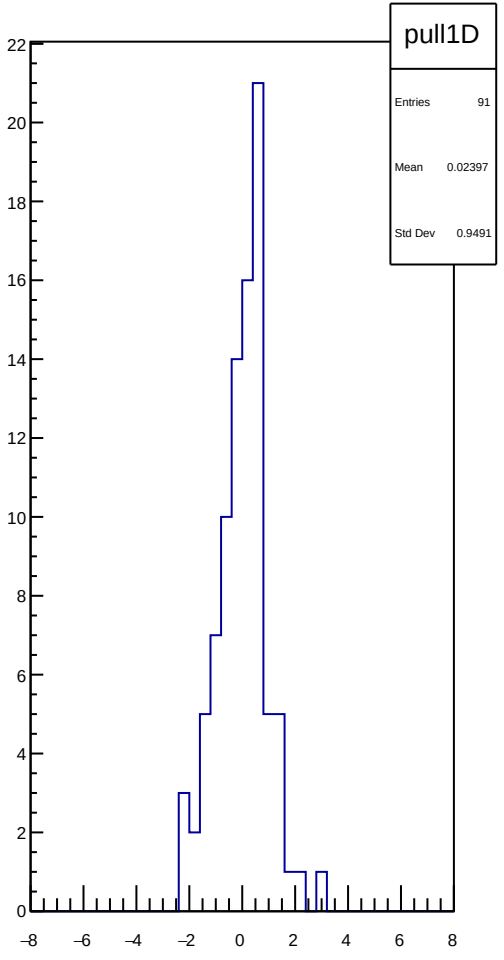

diff_bpm4ecY_rms vs run
χ² / ndf 5.242e+04 / 90
p0 6875 ± 5.194
16000
14000
12000
10000
8000
6000

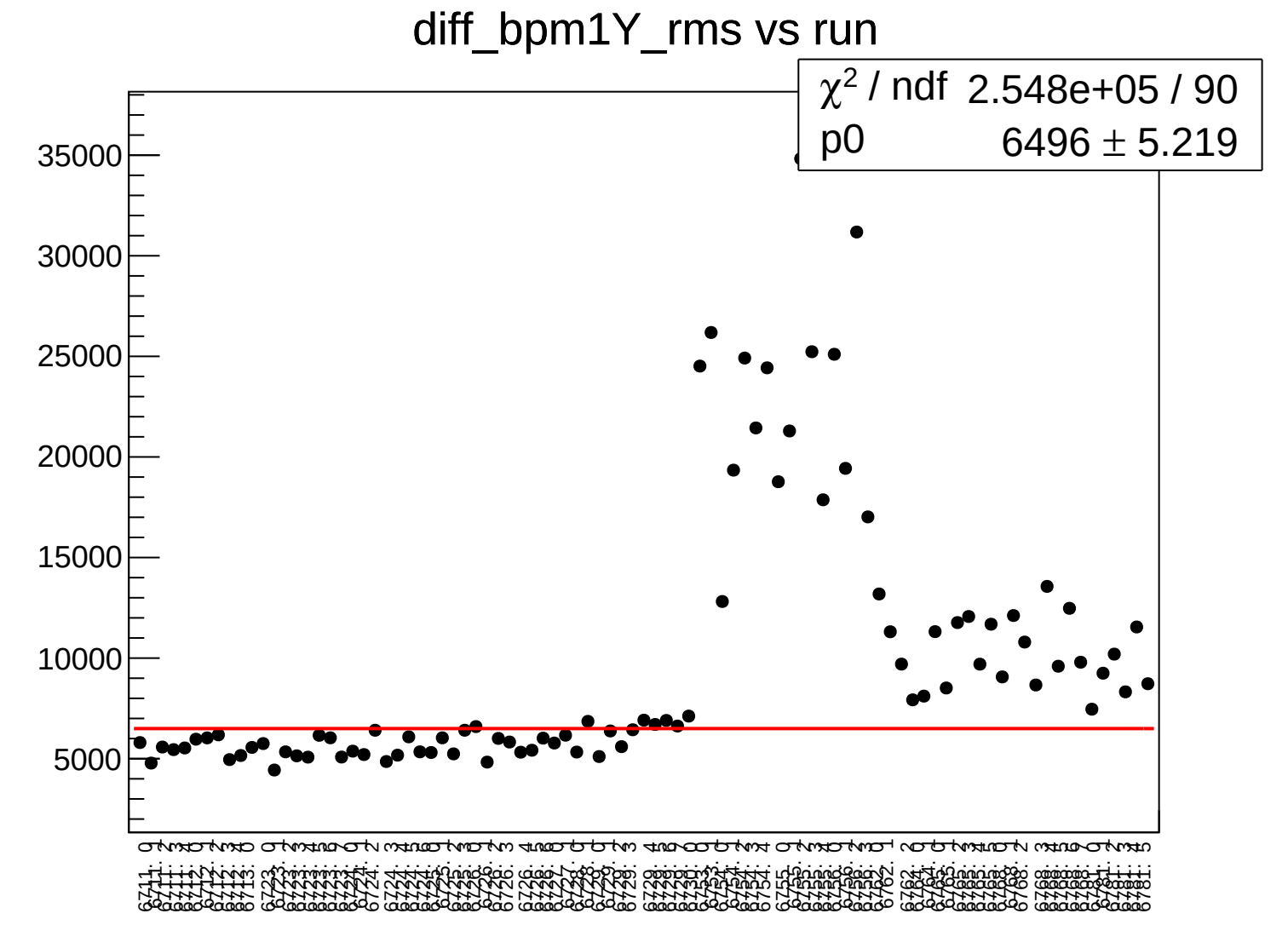

diff_bpm1X_mean vs run
χ^2 / ndf 108.9 / 90
p0 5.269 ± 9.628
pull
Entries 91
Mean 54.39
Std Dev 75.29

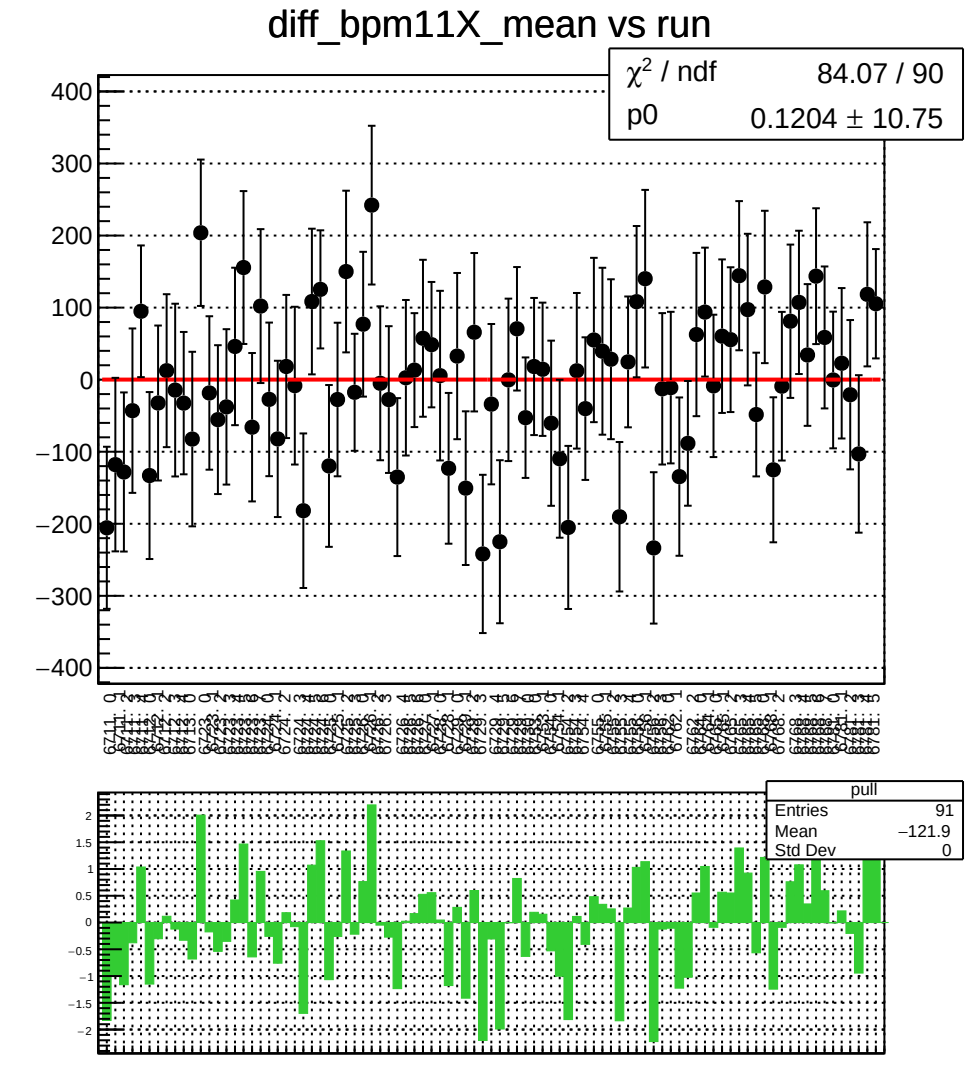

pull1D
Entries 91
Mean 0.02597
Std Dev 1.093

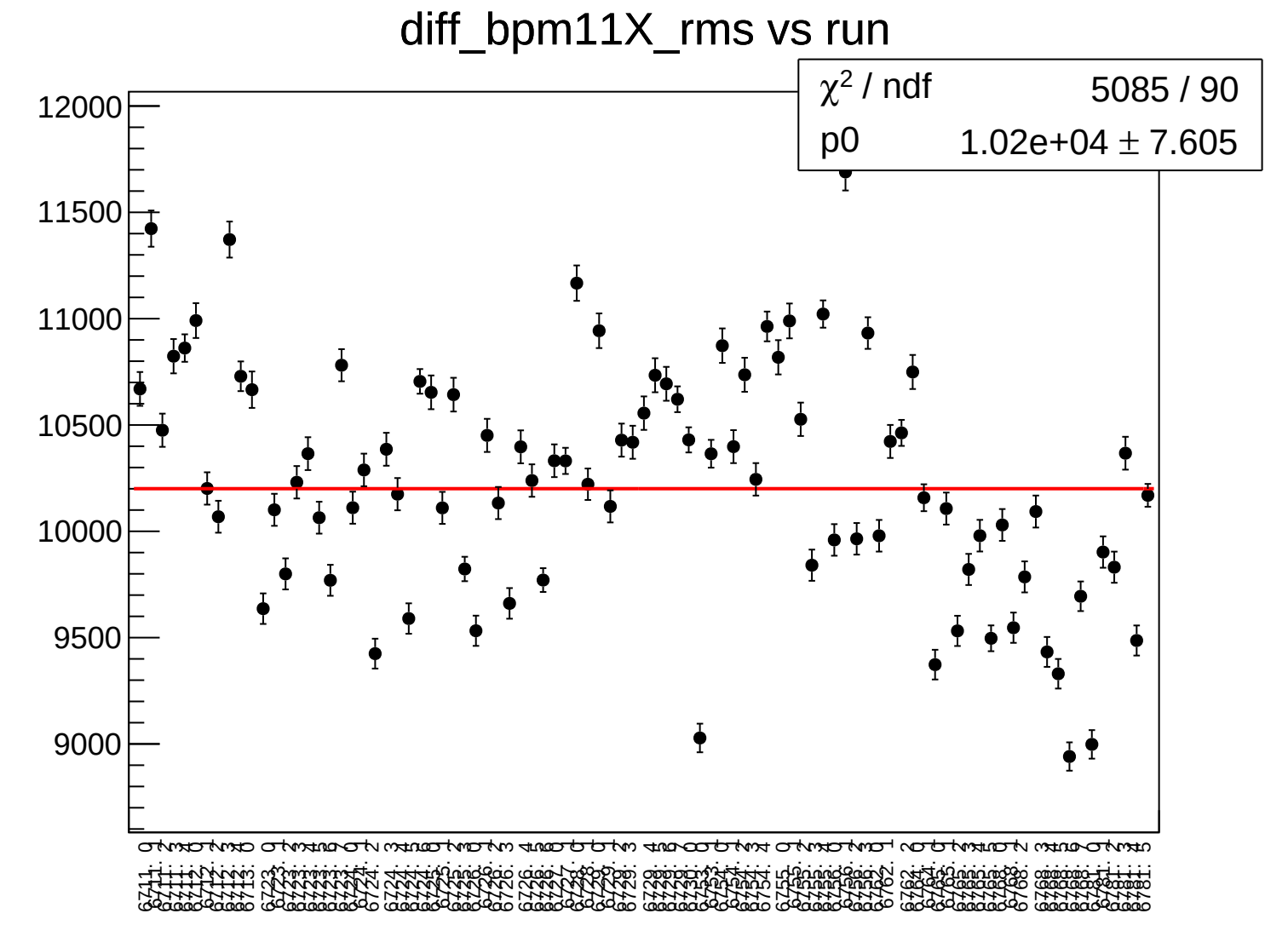

diff_bpm1X_rms vs run
χ^2 / ndf 9918 / 90
p0 9120 ± 6.808
11500
11000
10500
10000
9500
9000
8500
8000
7500

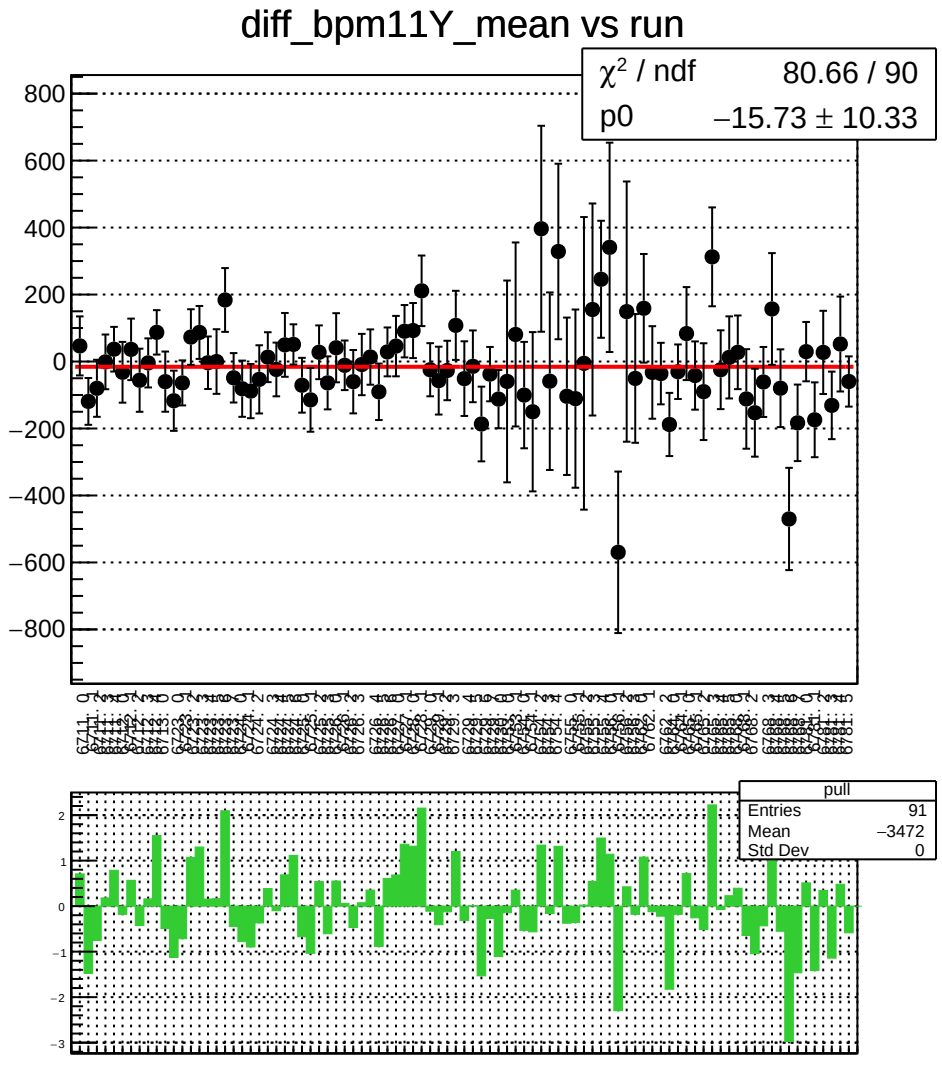

diff_bpm1Y_mean vs run
χ² / ndf 82.03 / 90
p0 9.72 ± 7.381
pull
Entries 91
Mean 190.8
Std Dev 0

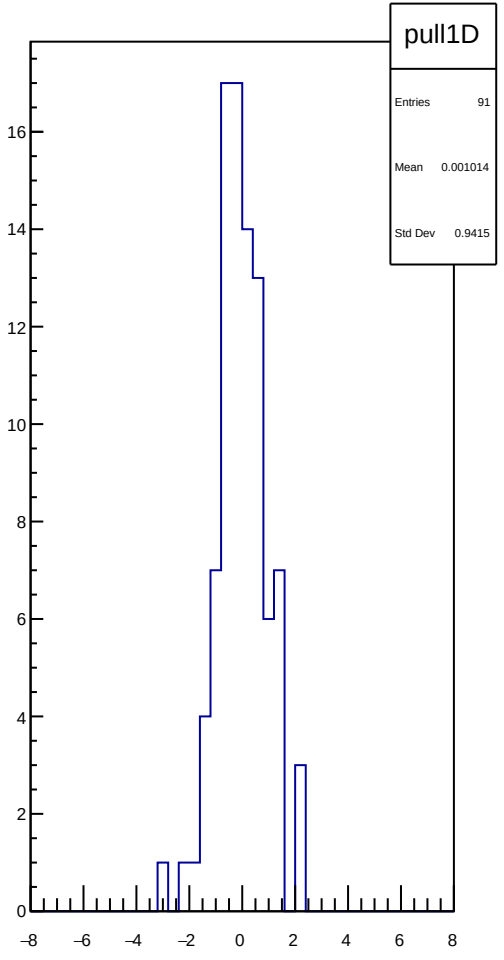

pull1D
Entries 91
Mean 0.02397
Std Dev 0.9491

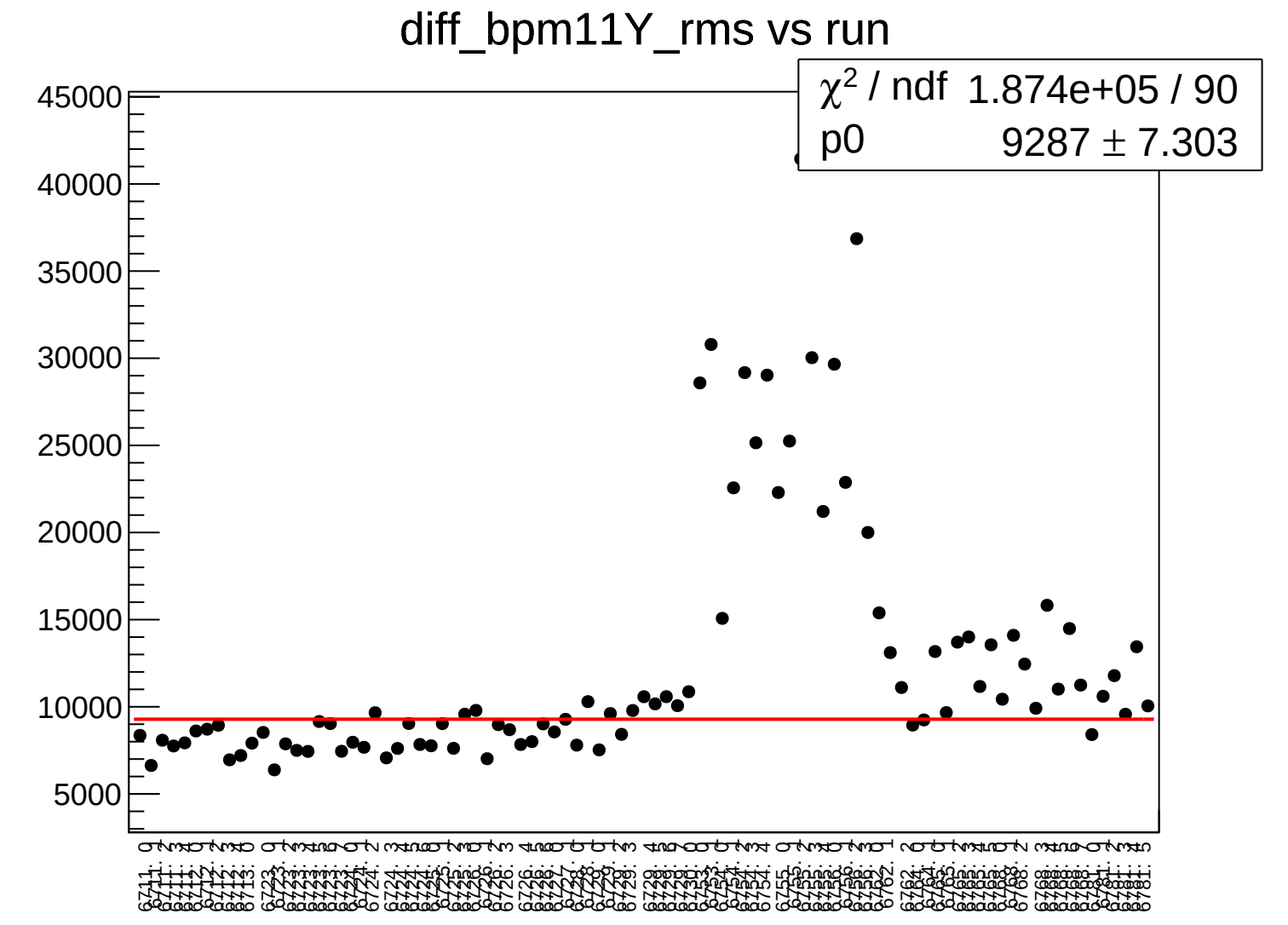

diff_bpm1Y_rms vs run
χ² / ndf 2.548e+05 / 90
p0 6496 ± 5.219
35000
30000
25000
20000
15000
10000
5000

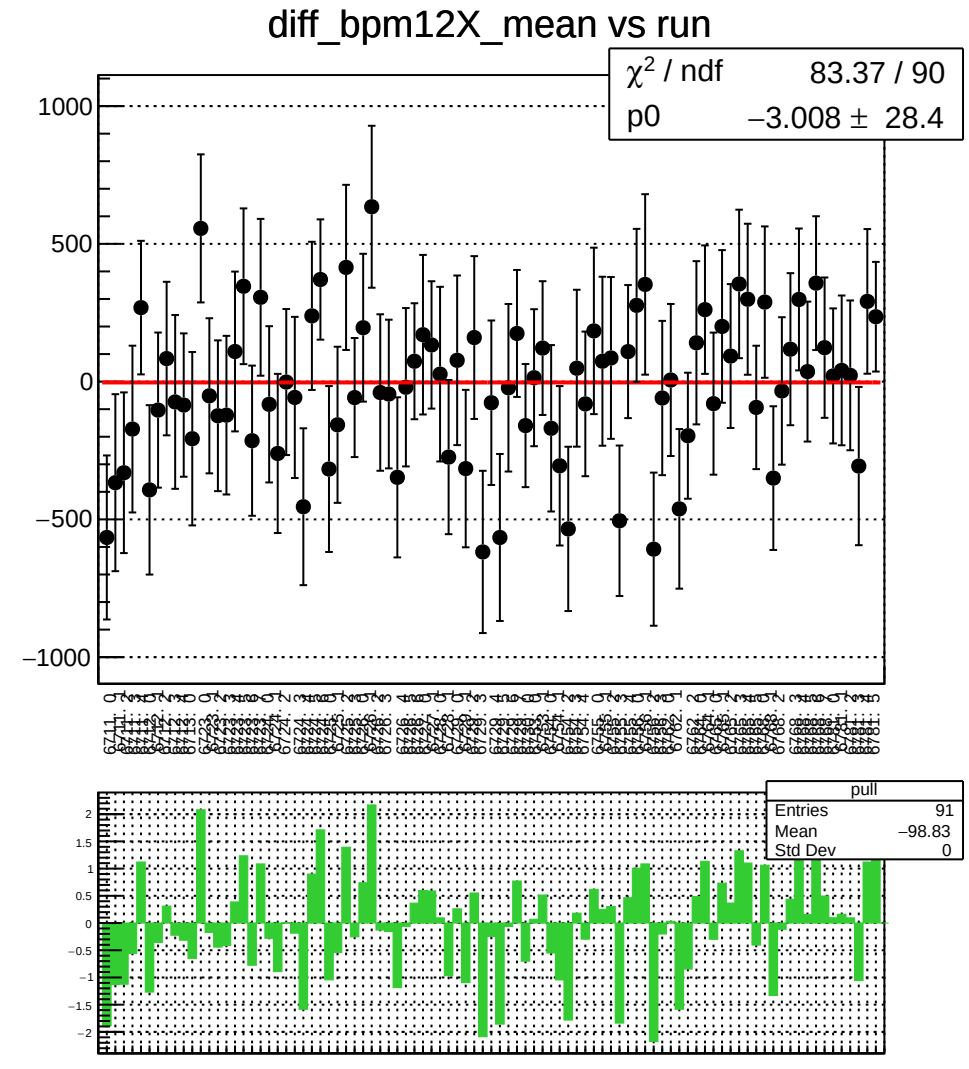

diff_bpm11X_mean vs run
χ² / ndf 84.07 / 90
p0 0.1204 ± 10.75
pull
Entries 91
Mean −121.9
Std Dev 0
pull1D
Entries 91
Mean −0.0249
Std Dev 0.9608

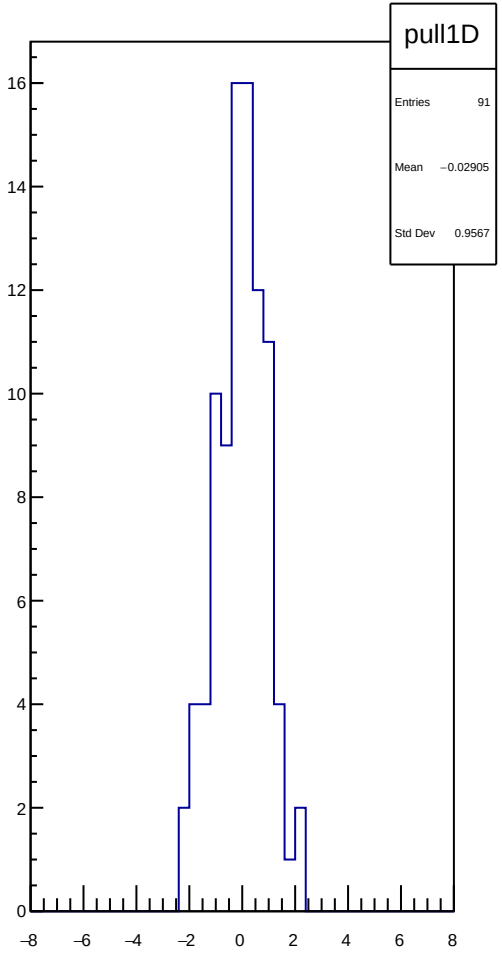

diff_bpm11X_rms vs run
χ² / ndf 5085 / 90
p0 1.02e+04 ± 7.605
12000
11500
11000
10500
10000
9500
9000

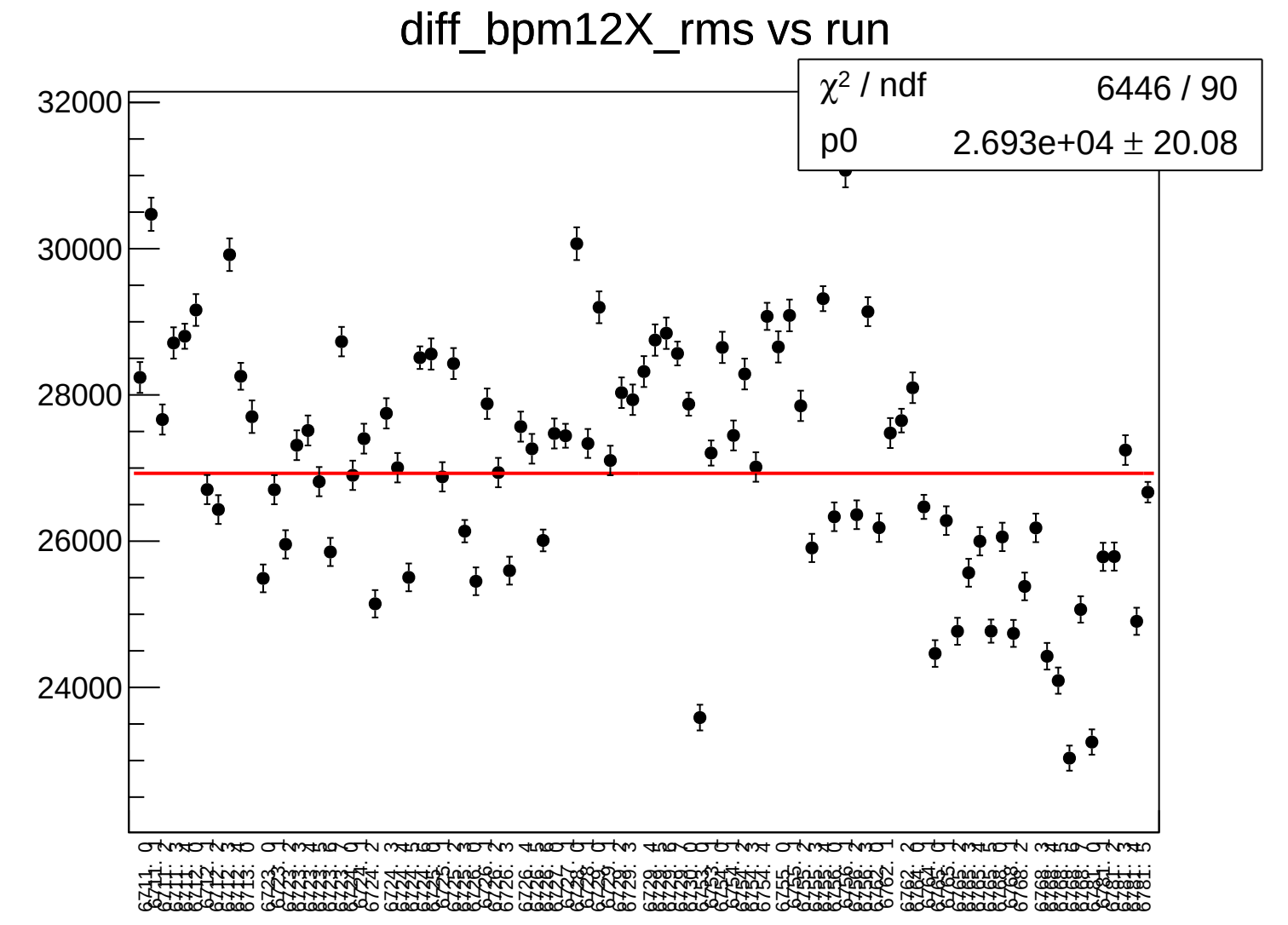

diff_bpm11Y_mean vs run
χ² / ndf 80.66 / 90
p0 −15.73 ± 10.33
pull
Entries 91
Mean −3472
Std Dev 0

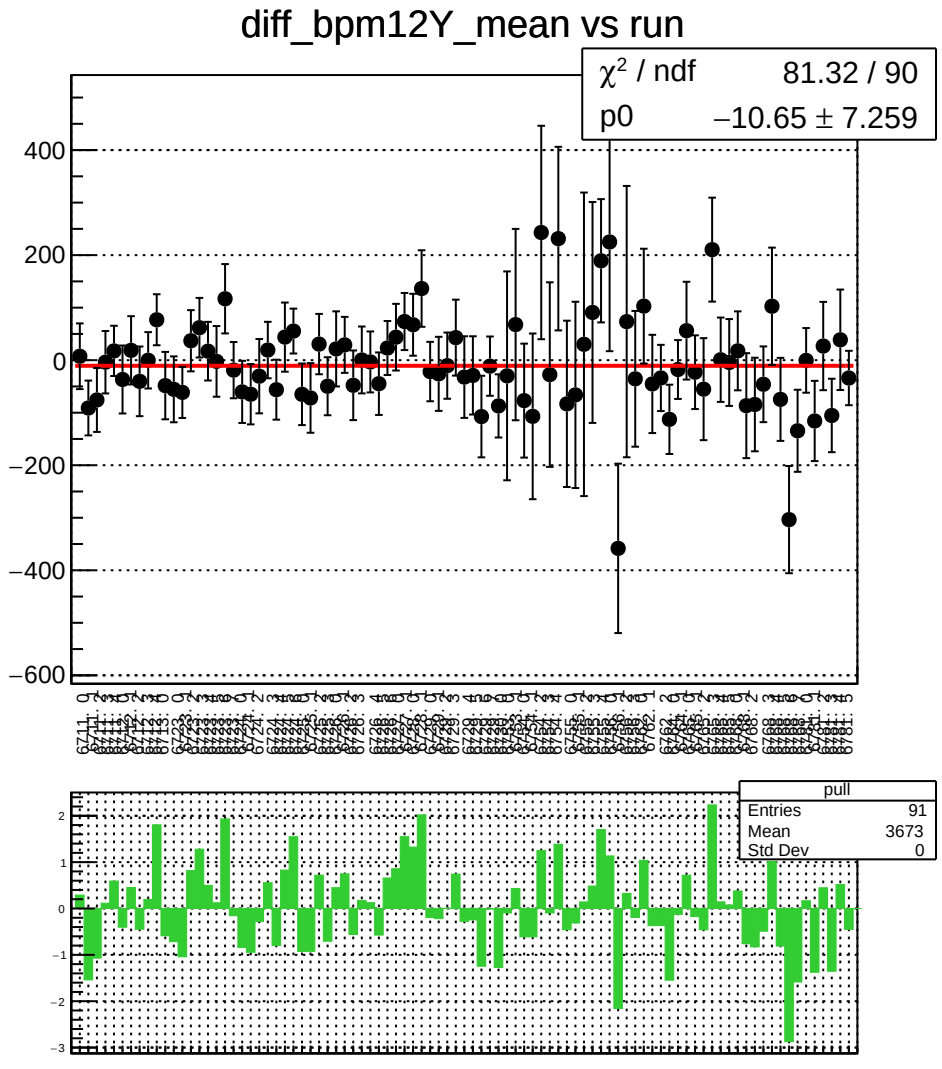

pull1D
Entries 91
Mean 0.001014
Std Dev 0.9415

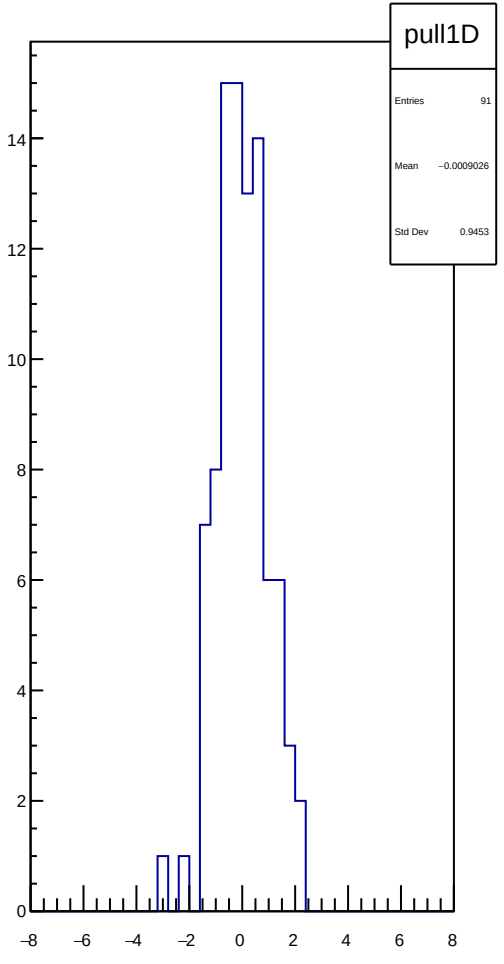

diff_bpm11Y_rms vs run
χ² / ndf 1.874e+05 / 90
p0 9287 ± 7.303
45000
40000
35000
30000
25000
20000
15000
10000
5000

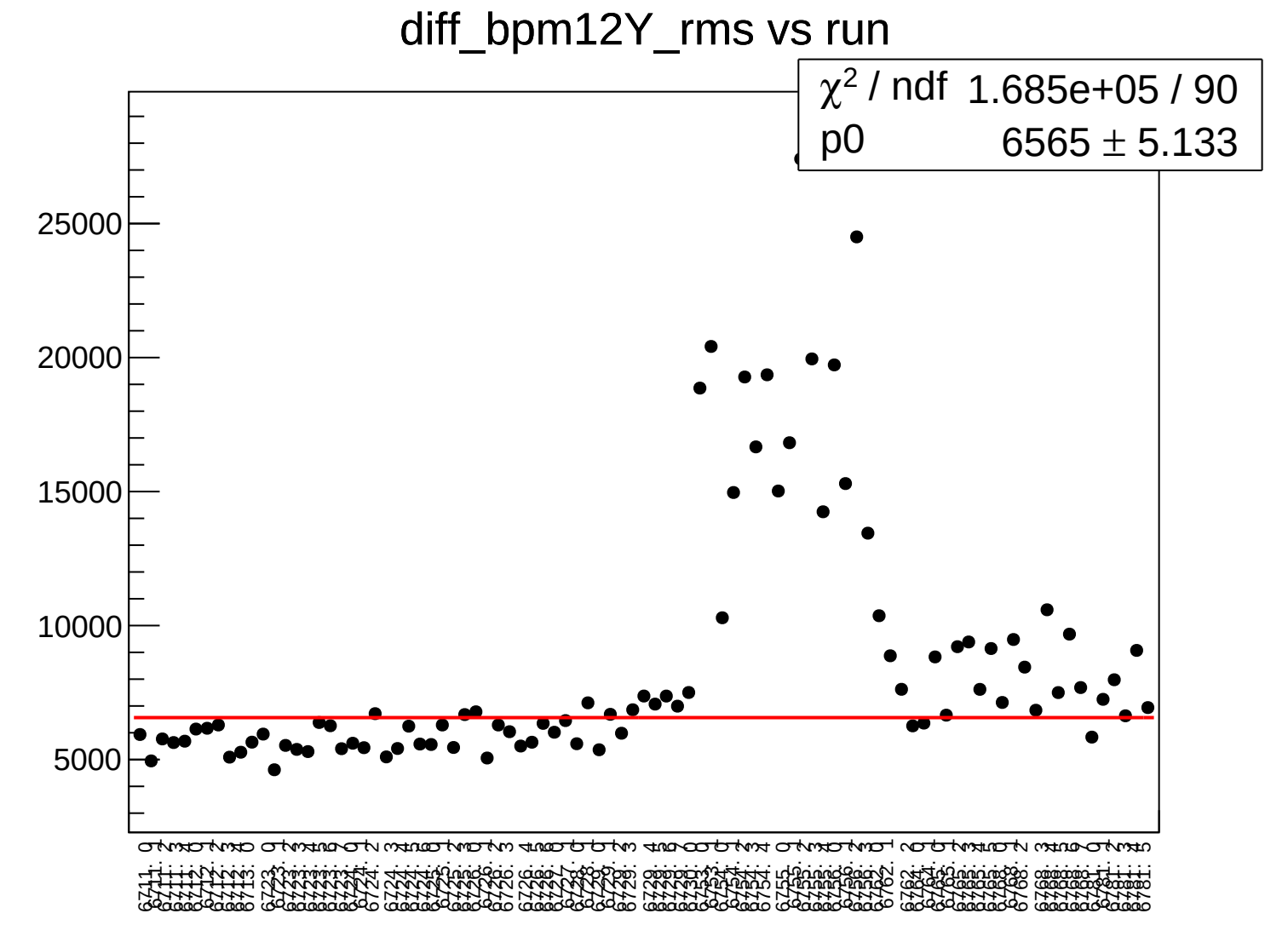

diff_bpm12X_mean vs run
χ² / ndf 83.37 / 90
p0 −3.008 ± 28.4
1000
500
0
−500
−1000
pull
Entries 91
Mean −98.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

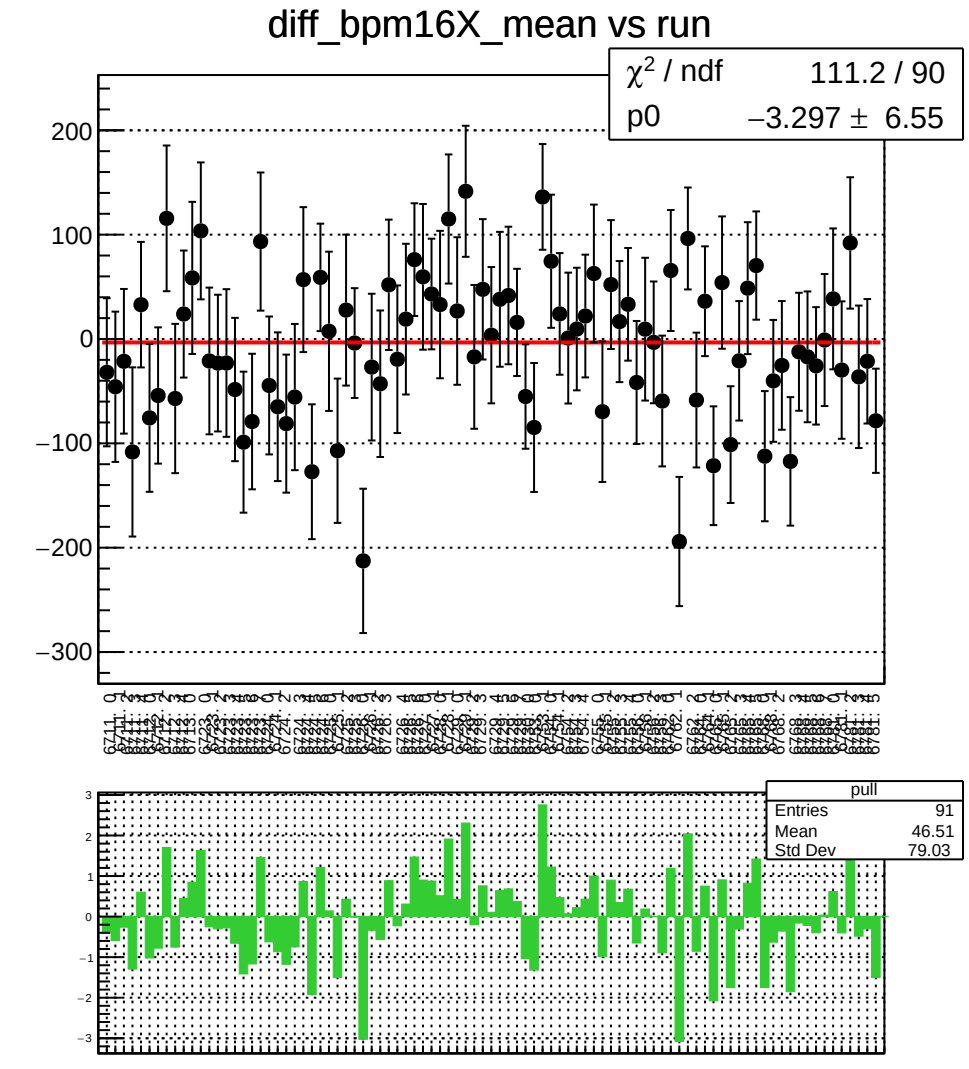

pull1D
Entries 91
Mean −0.02905
Std Dev 0.9567
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

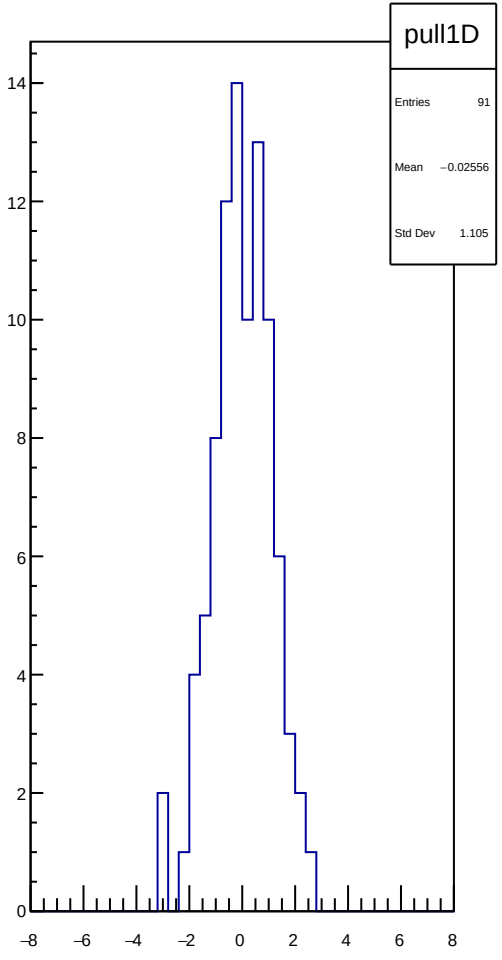

diff_bpm12X_rms vs run
χ² / ndf 6446 / 90
p0 2.693e+04 ± 20.08
32000
30000
28000
26000
24000

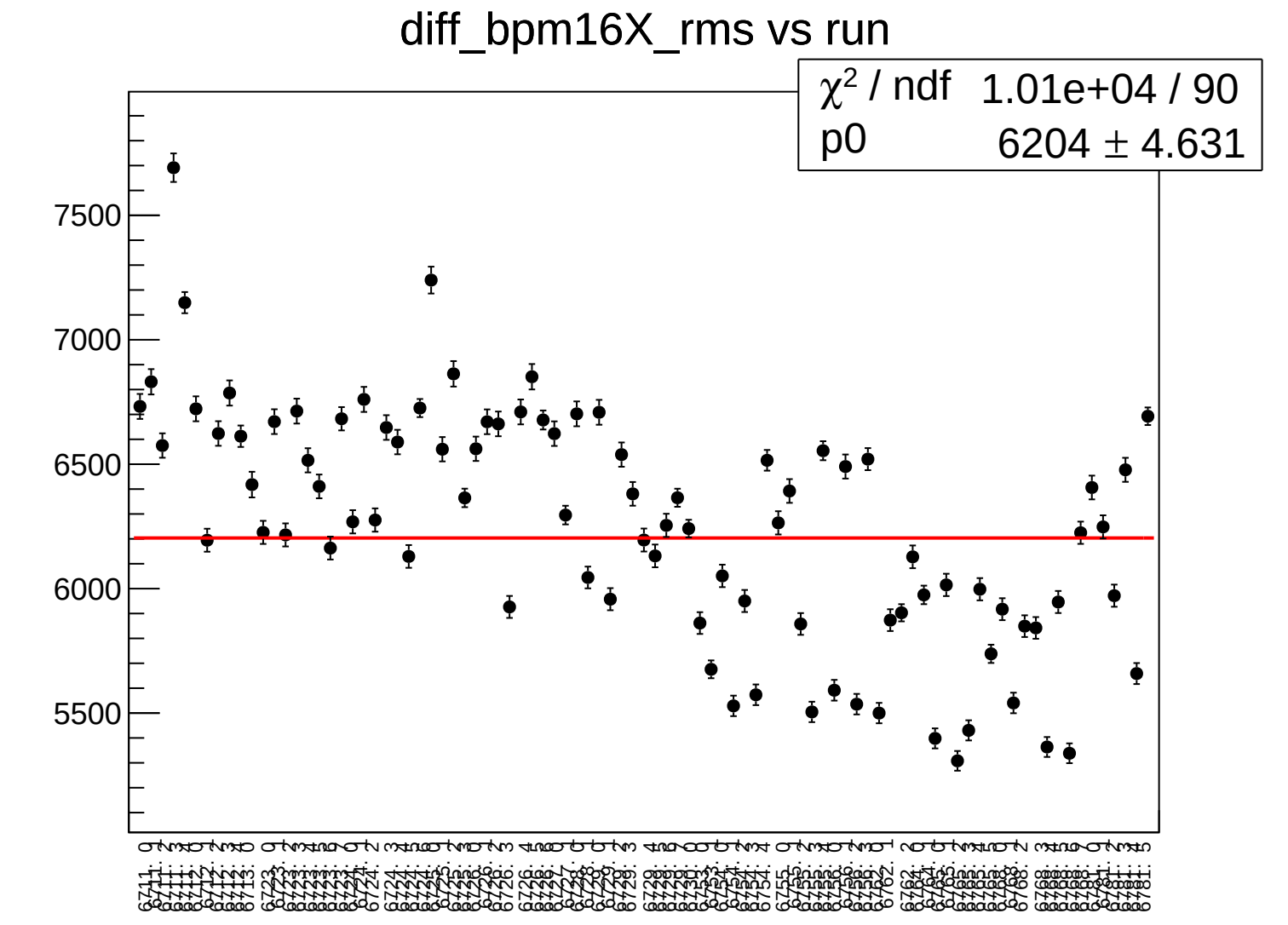

diff_bpm12Y_mean vs run
χ² / ndf 81.32 / 90
p0 −10.65 ± 7.259
400
200
0
−200
−400
−600
pull
Entries 91
Mean 3673
Std Dev 0
2
1
0
−1
−2
−3

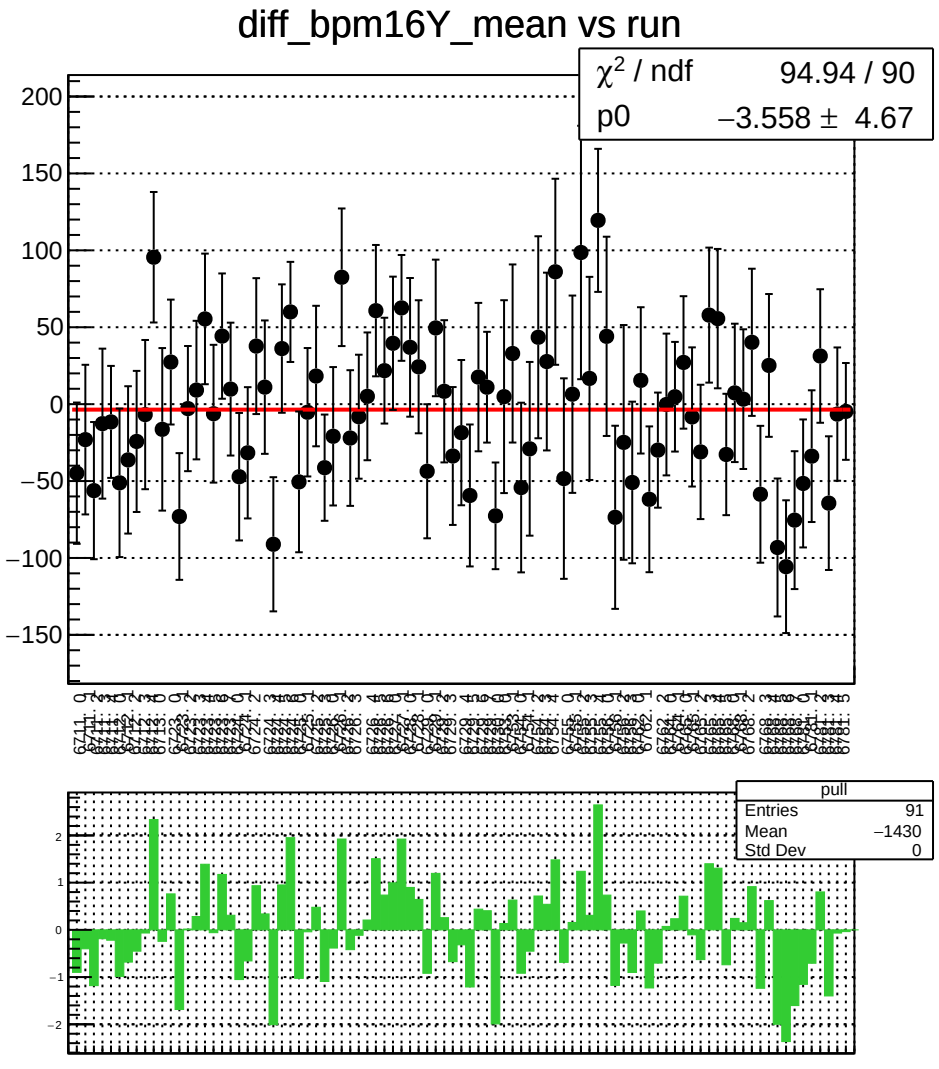

pull1D
Entries 91
Mean −0.0009026
Std Dev 0.9453
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

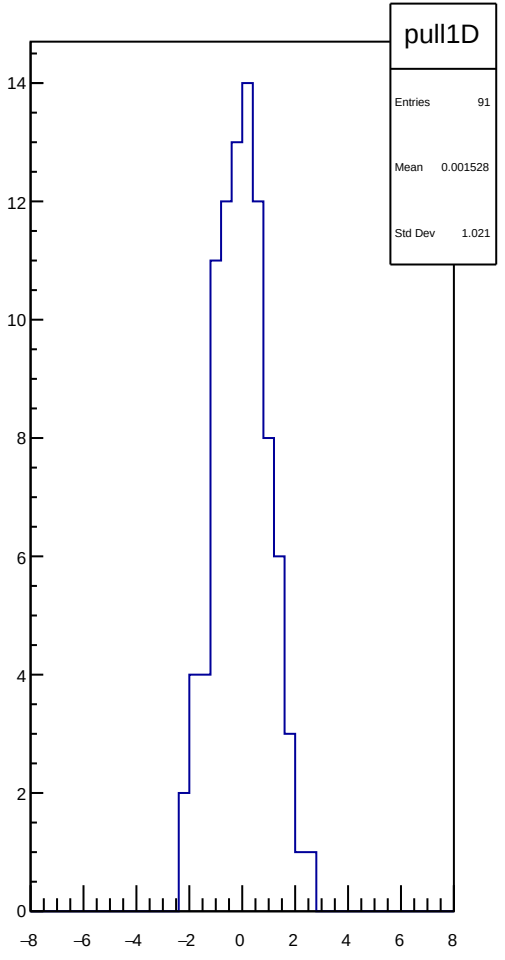

diff_bpm12Y_rms vs run
χ² / ndf 1.685e+05 / 90
p0 6565 ± 5.133
25000
20000
15000
10000
5000

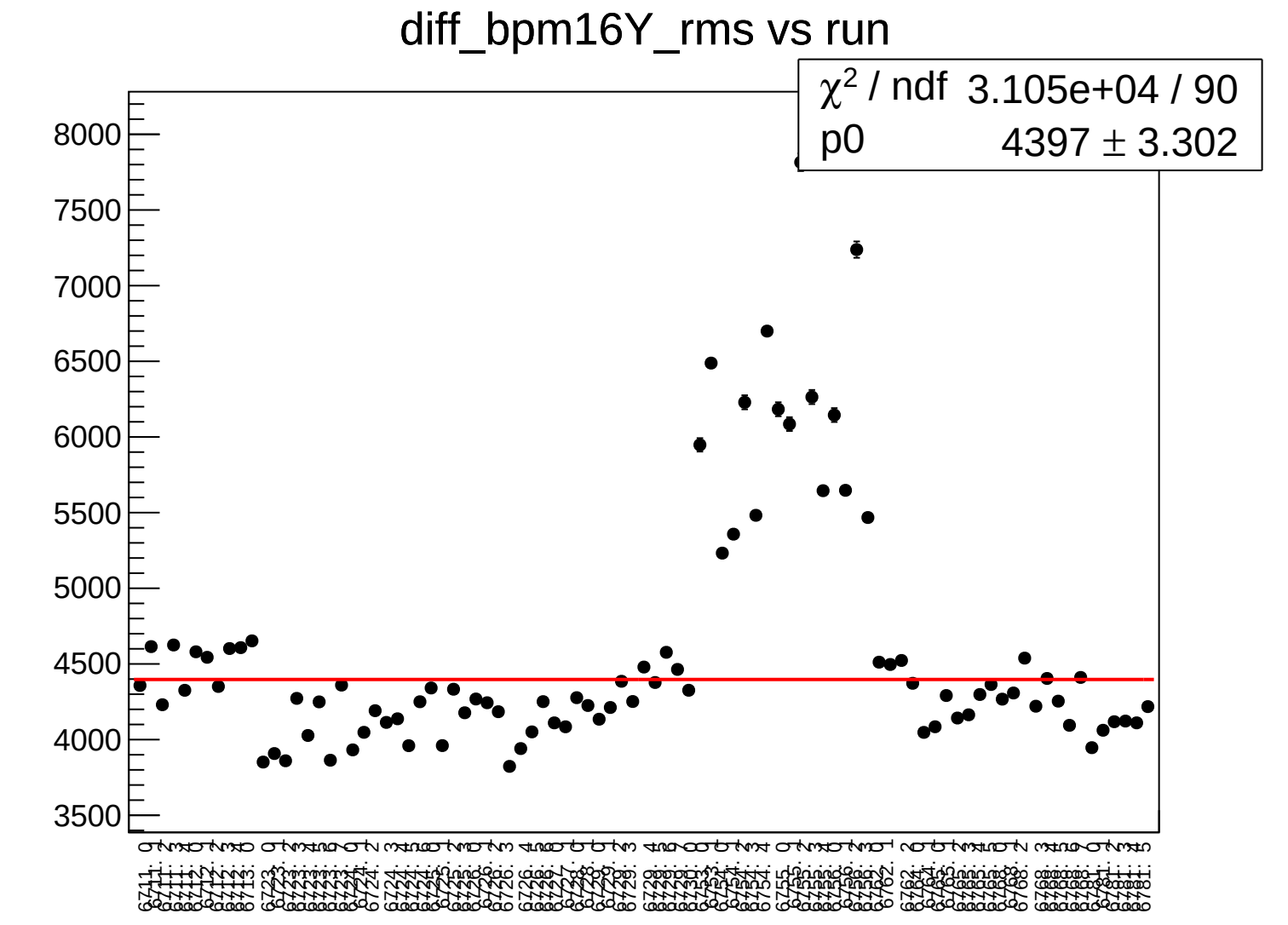

diff_bpm16X_mean vs run
χ² / ndf 111.2 / 90
p0 −3.297 ± 6.55
pull
Entries 91
Mean 46.51
Std Dev 79.03

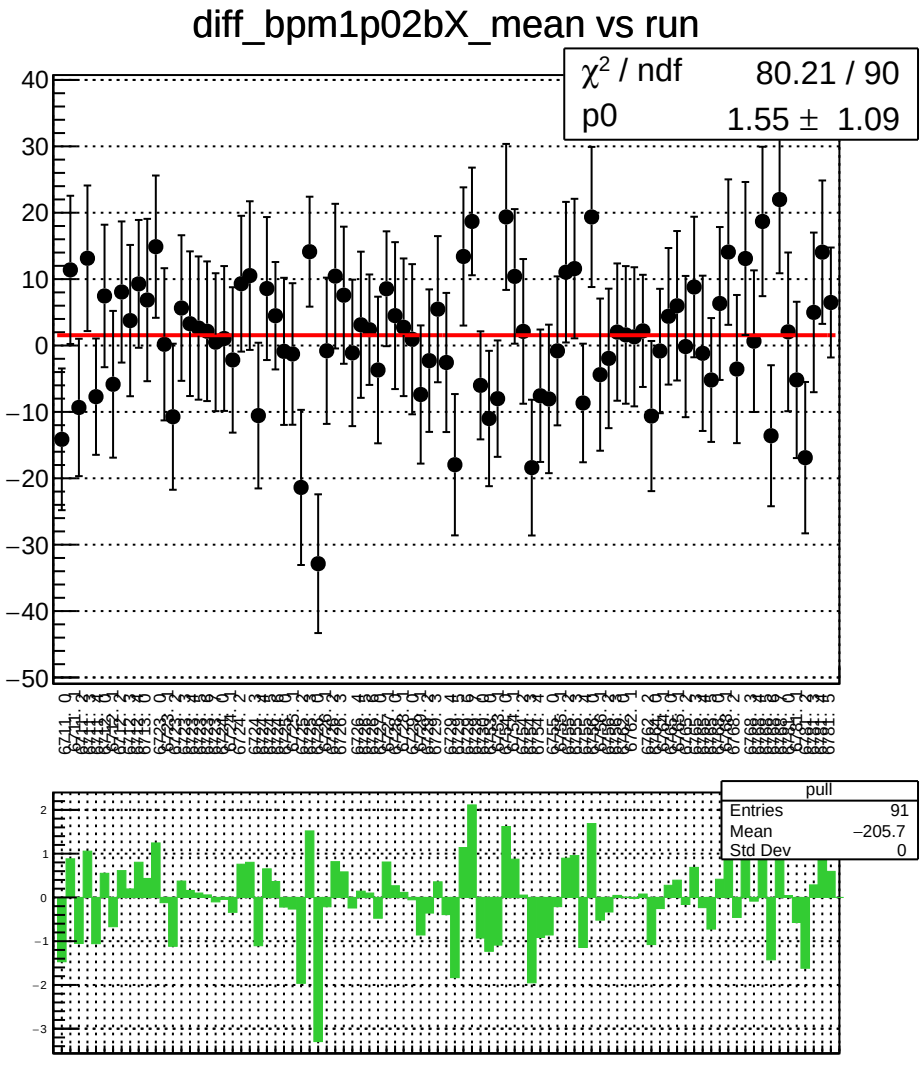

pull1D
Entries 91
Mean −0.02556
Std Dev 1.105

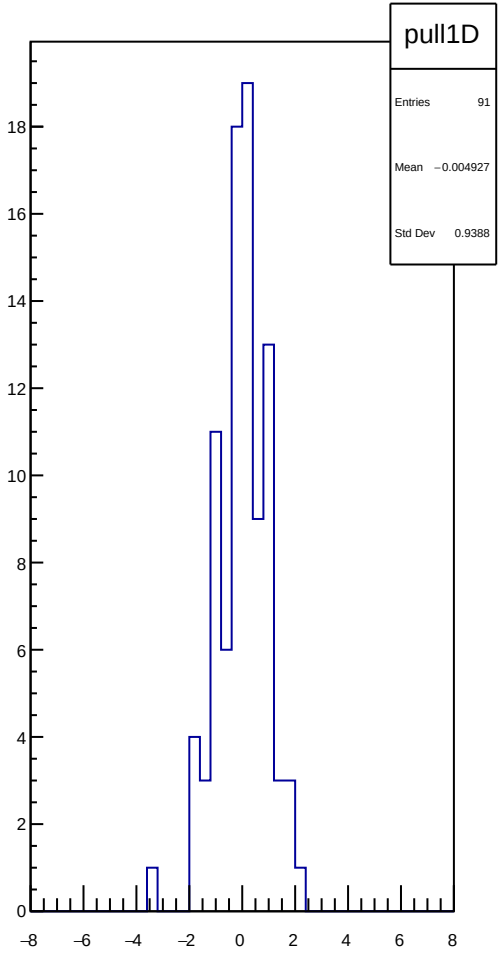

diff_bpm16X_rms vs run
χ² / ndf 1.01e+04 / 90
p0 6204 ± 4.631
7500
7000
6500
6000
5500

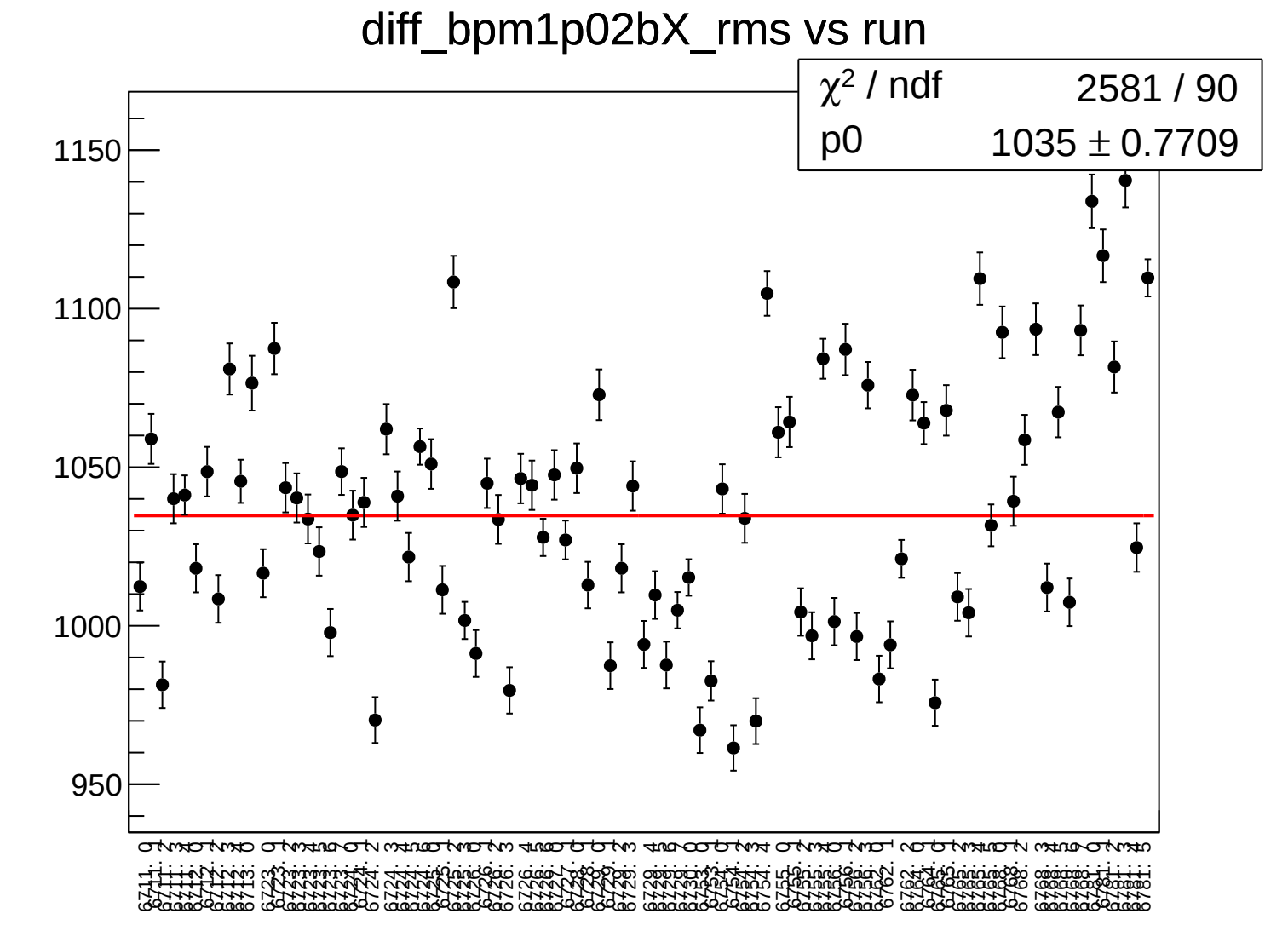

diff_bpm16Y_mean vs run
χ² / ndf 94.94 / 90
p0 −3.558 ± 4.67
pull
Entries 91
Mean −1430
Std Dev 0

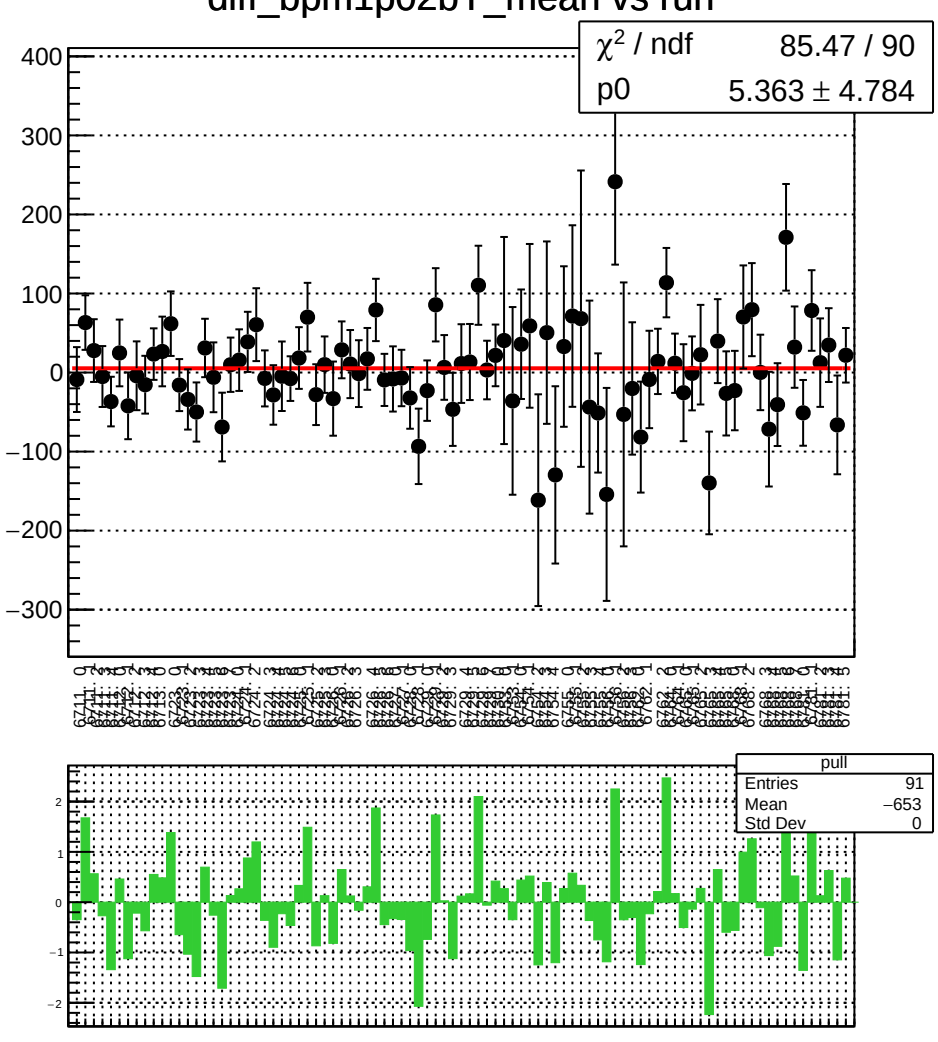

pull1D
Entries 91
Mean 0.001528
Std Dev 1.021

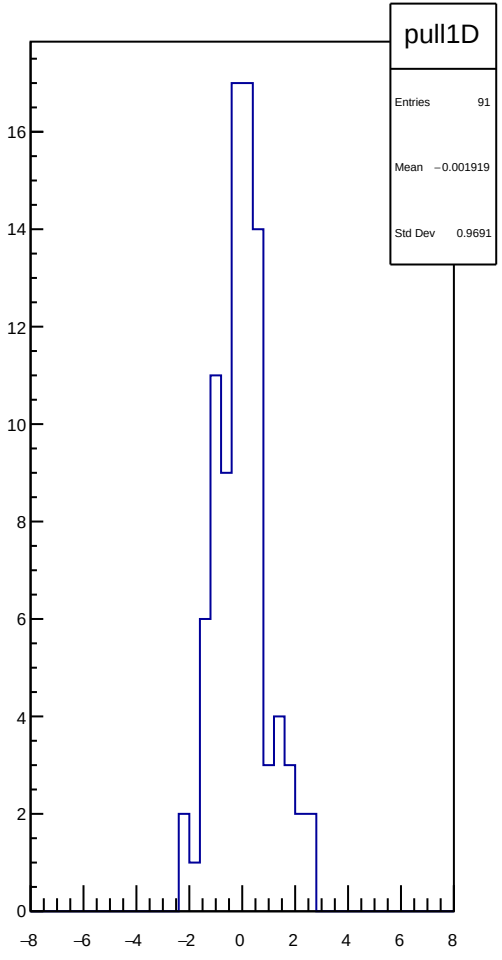

diff_bpm16Y_rms vs run
χ² / ndf 3.105e+04 / 90
p0 4397 ± 3.302
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500

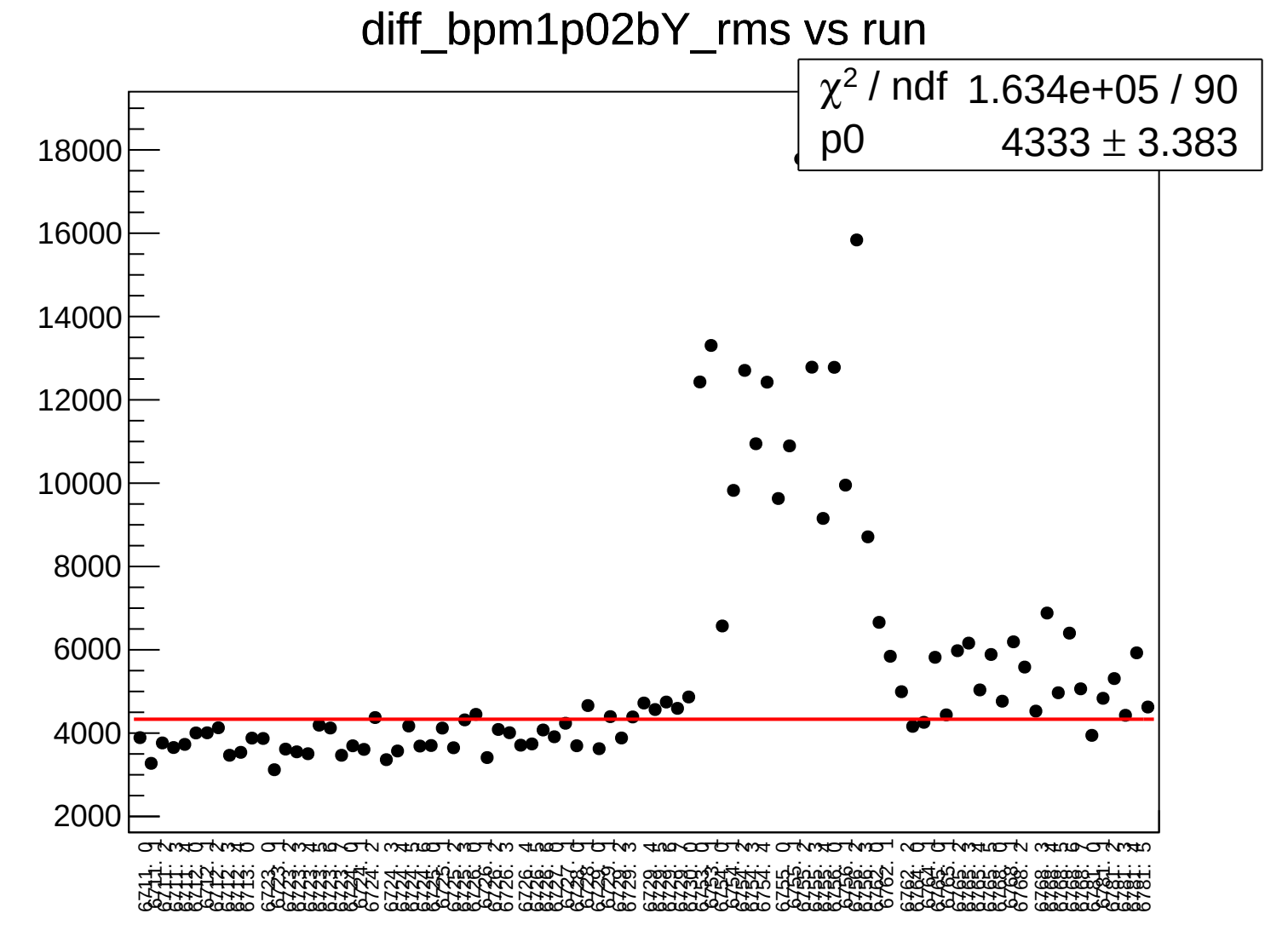

diff_bpm1p02bX_mean vs run
χ² / ndf 80.21 / 90
p0 1.55 ± 1.09
pull
Entries 91
Mean −205.7
Std Dev 0

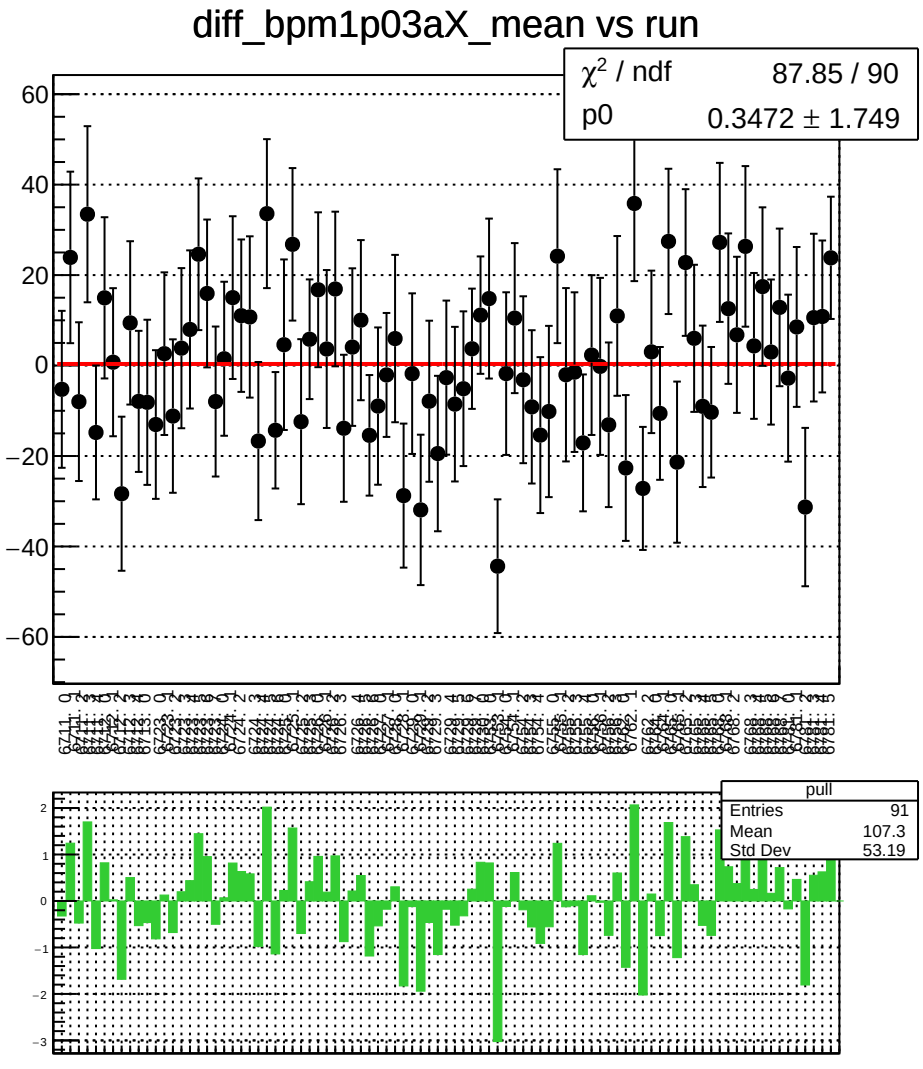

pull1D
Entries 91
Mean −0.004927
Std Dev 0.9388

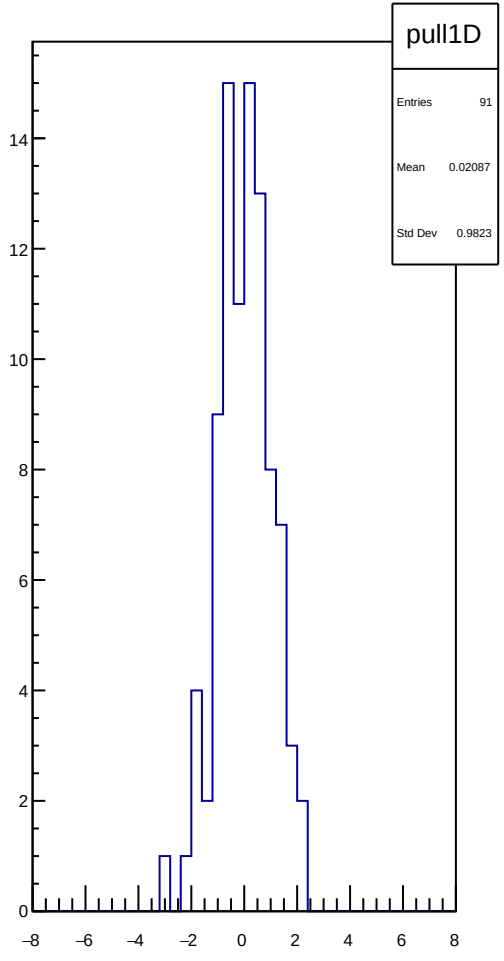

diff_bpm1p02bX_rms vs run
χ² / ndf 2581 / 90
p0 1035 ± 0.7709
1150
1100
1050
1000
950

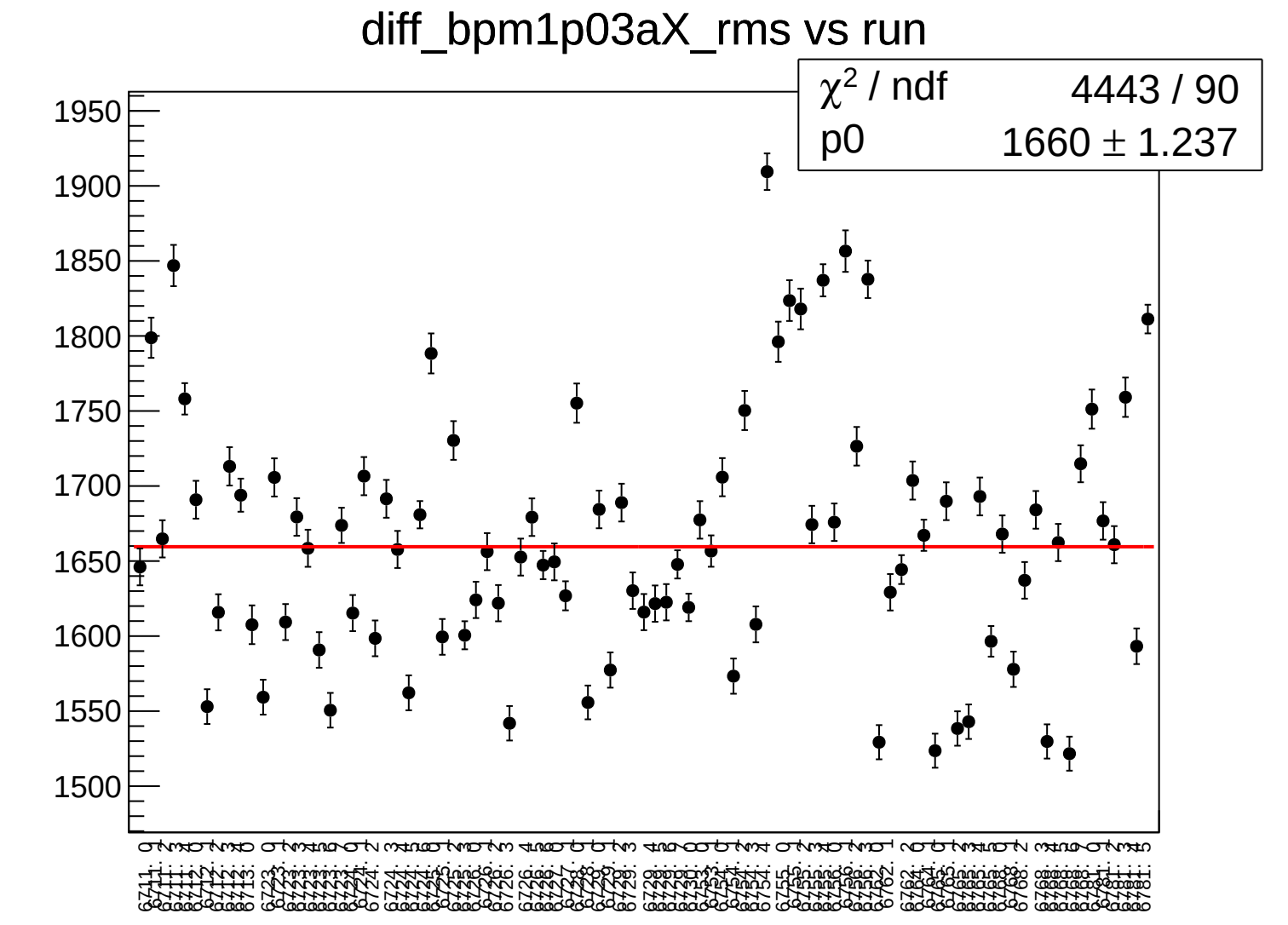

diff_bpm1p02bY_mean vs run
χ² / ndf 85.47 / 90
p0 5.363 ± 4.784
pull
Entries 91
Mean −653
Std Dev 0

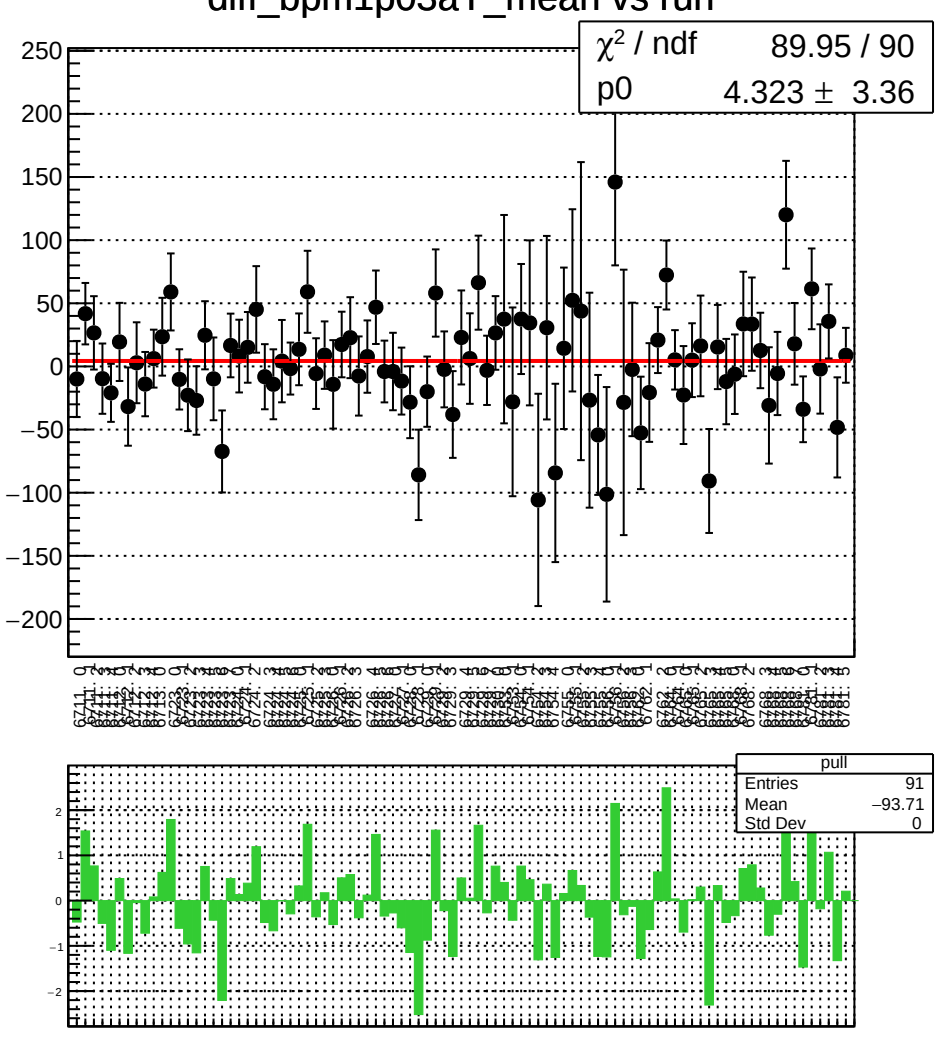

pull1D
Entries 91
Mean −0.001919
Std Dev 0.9691

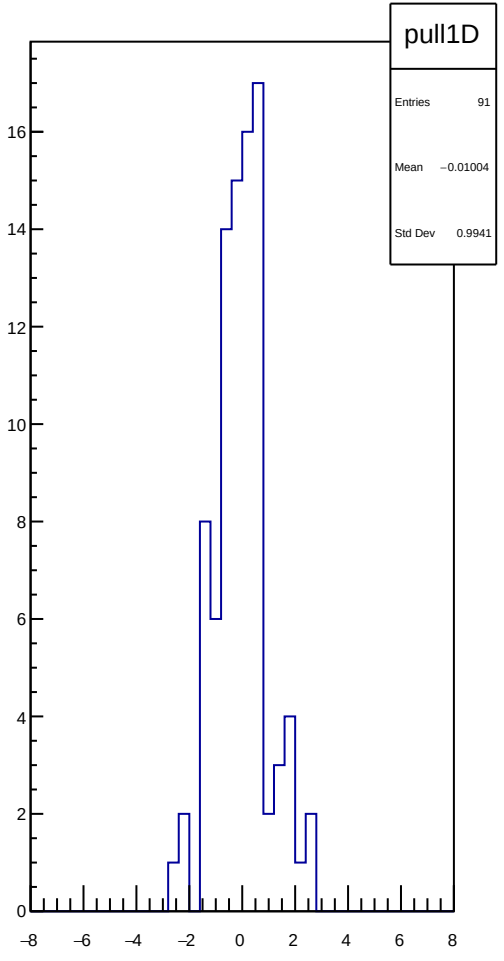

diff_bpm1p02bY_rms vs run
χ² / ndf 1.634e+05 / 90
p0 4333 ± 3.383
18000
16000
14000
12000
10000
8000
6000
4000
2000

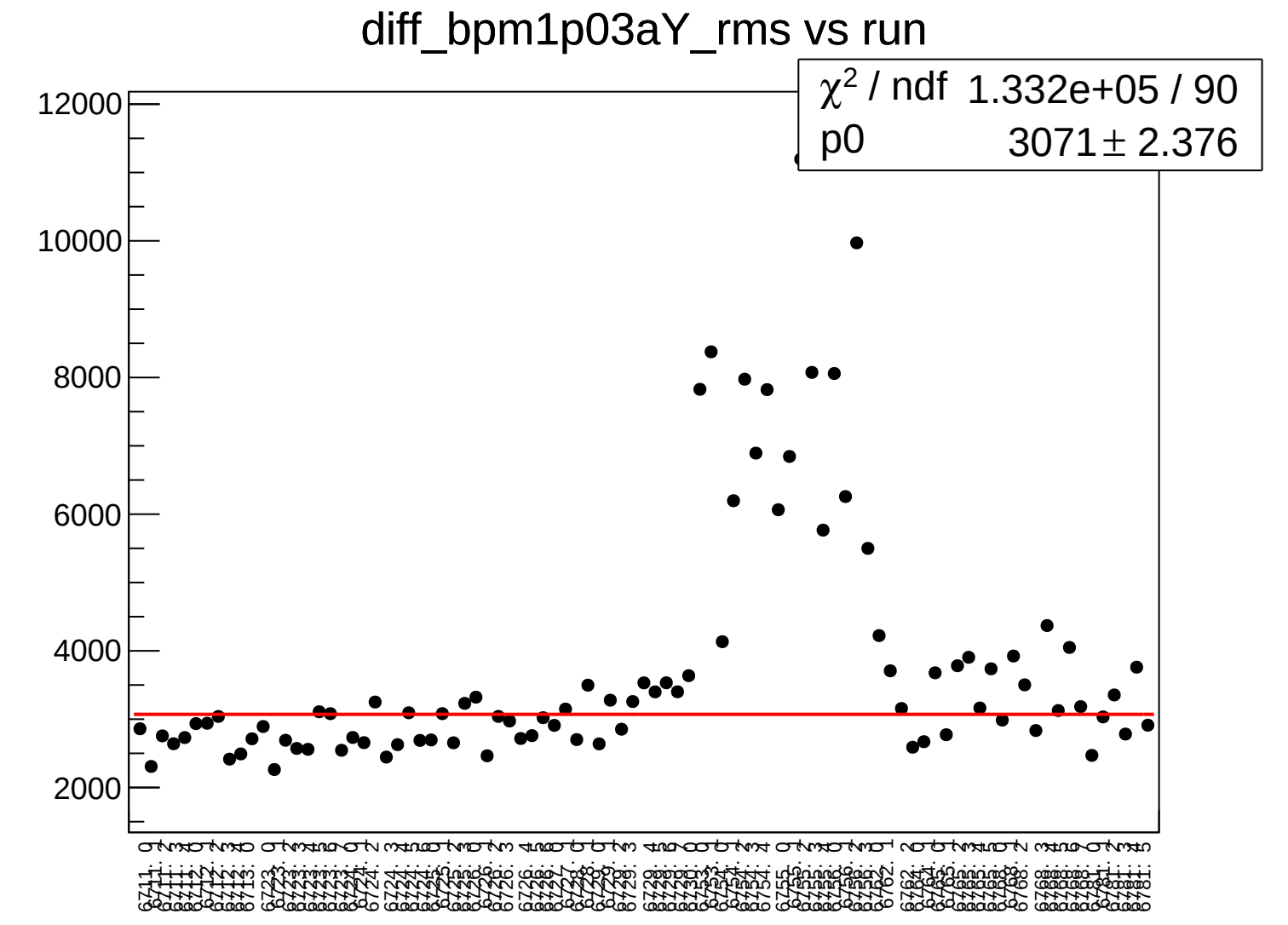

diff_bpm1p03aX_mean vs run
χ² / ndf 87.85 / 90
p0 0.3472 ± 1.749
pull
Entries 91
Mean 107.3
Std Dev 53.19

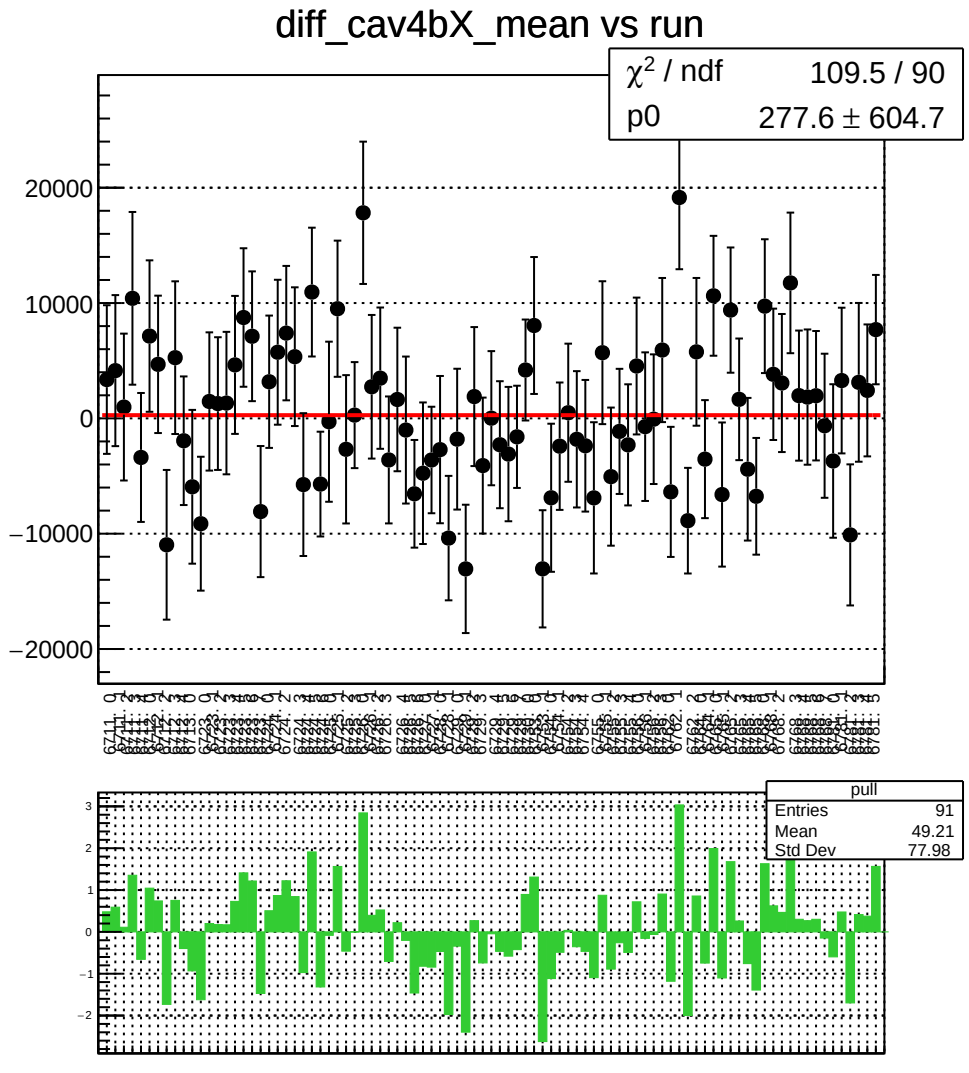

pull1D
Entries 91
Mean 0.02087
Std Dev 0.9823

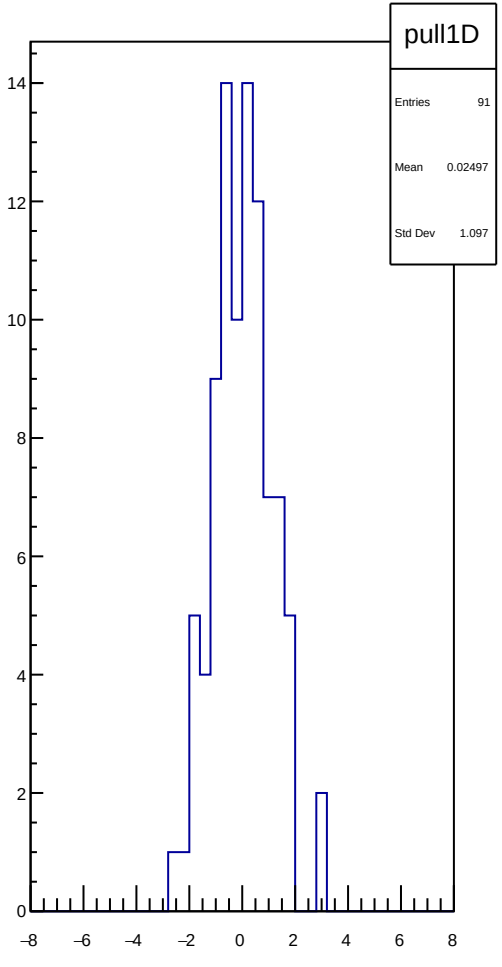

diff_bpm1p03aX_rms vs run
χ² / ndf 4443 / 90
p0 1660 ± 1.237
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500

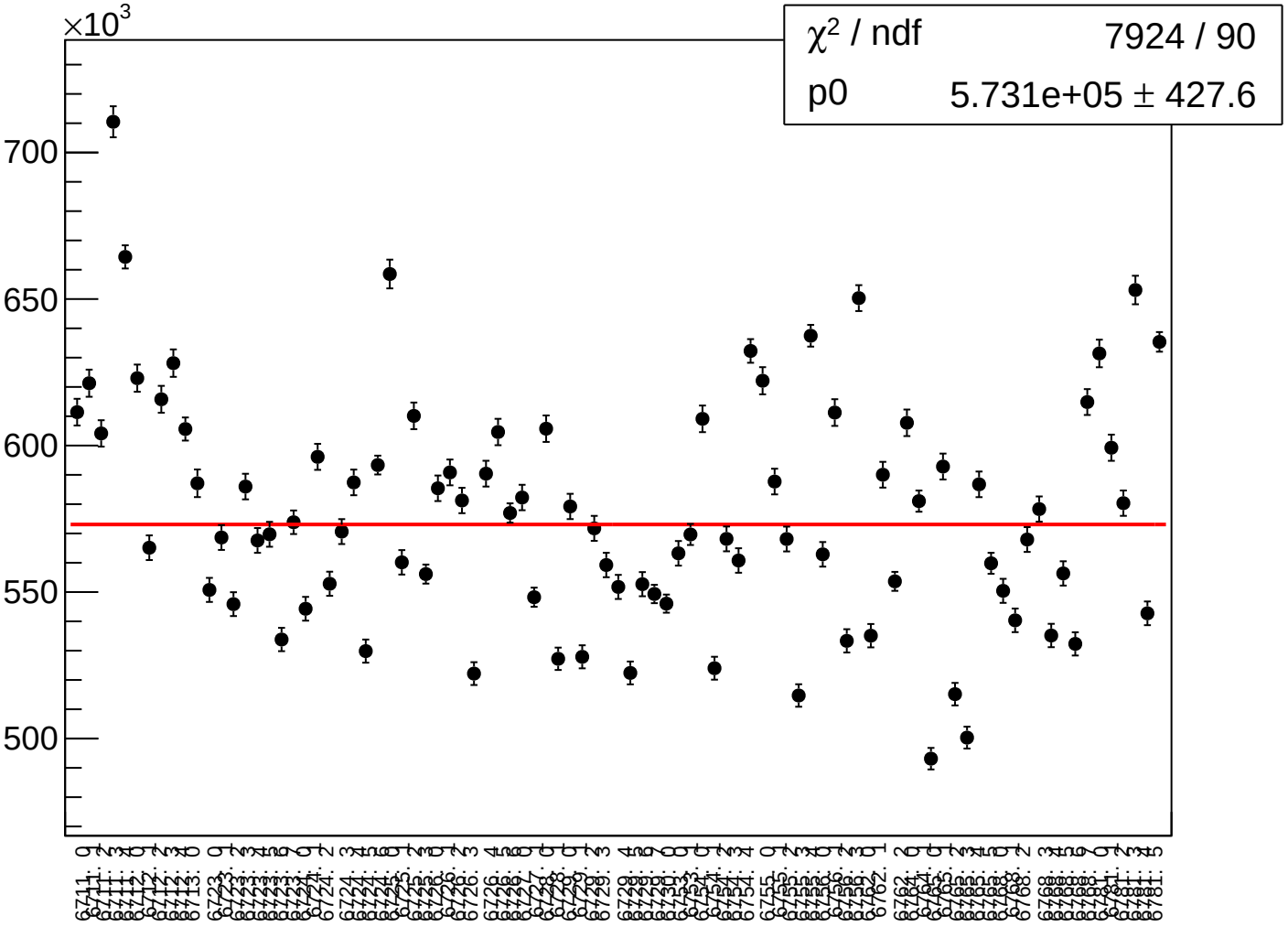

diff_bpm1p03aY_mean vs run
χ² / ndf 89.95 / 90
p0 4.323 ± 3.36
pull
Entries 91
Mean −93.71
Std Dev 0

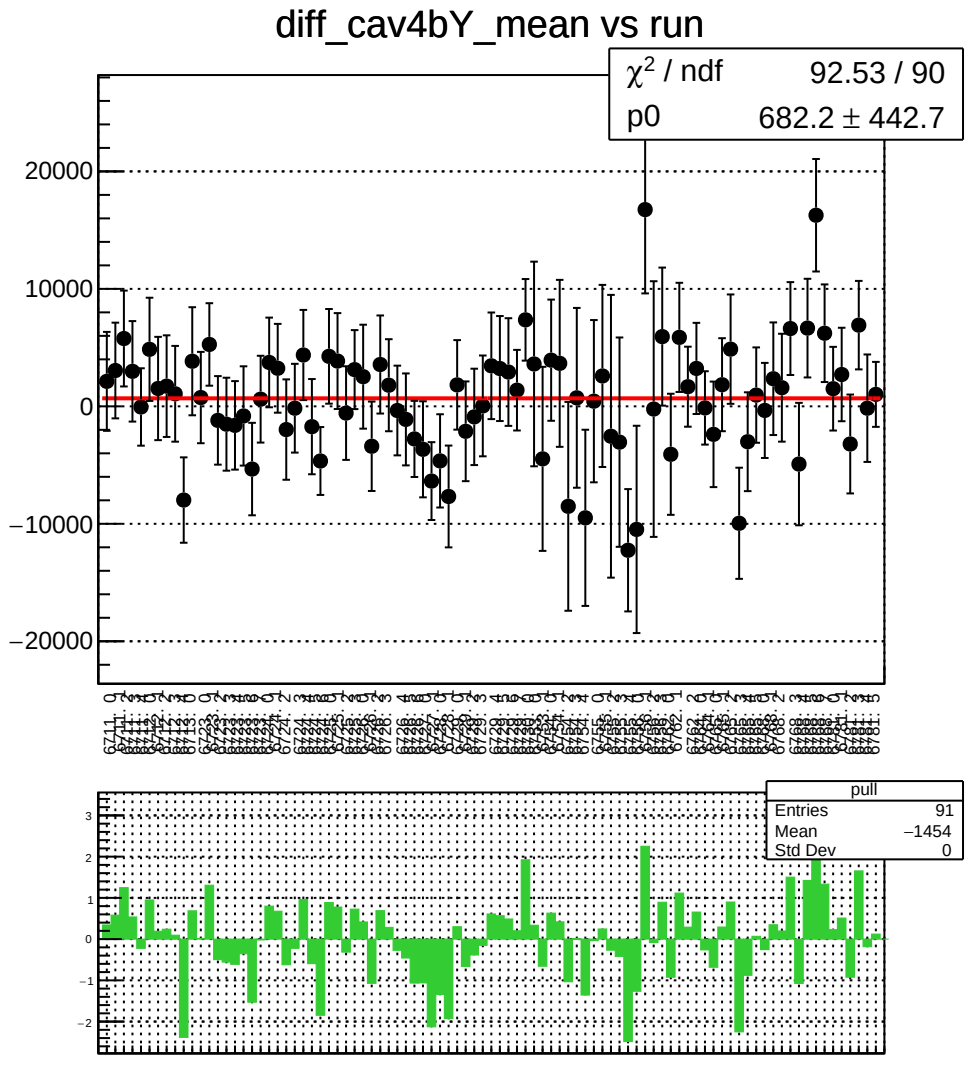

pull1D
Entries 91
Mean −0.01004
Std Dev 0.9941

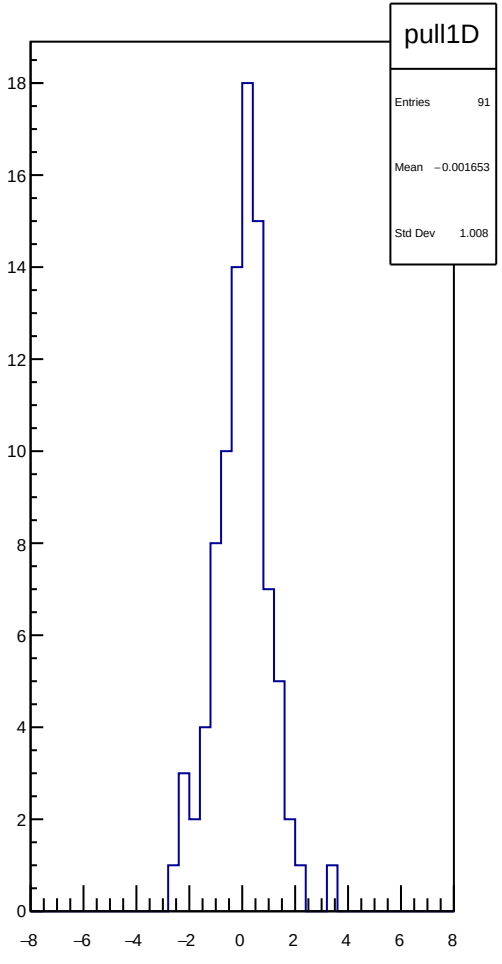

diff_bpm1p03aY_rms vs run
χ² / ndf 1.332e+05 / 90
p0 3071 ± 2.376
12000
10000
8000
6000
4000
2000

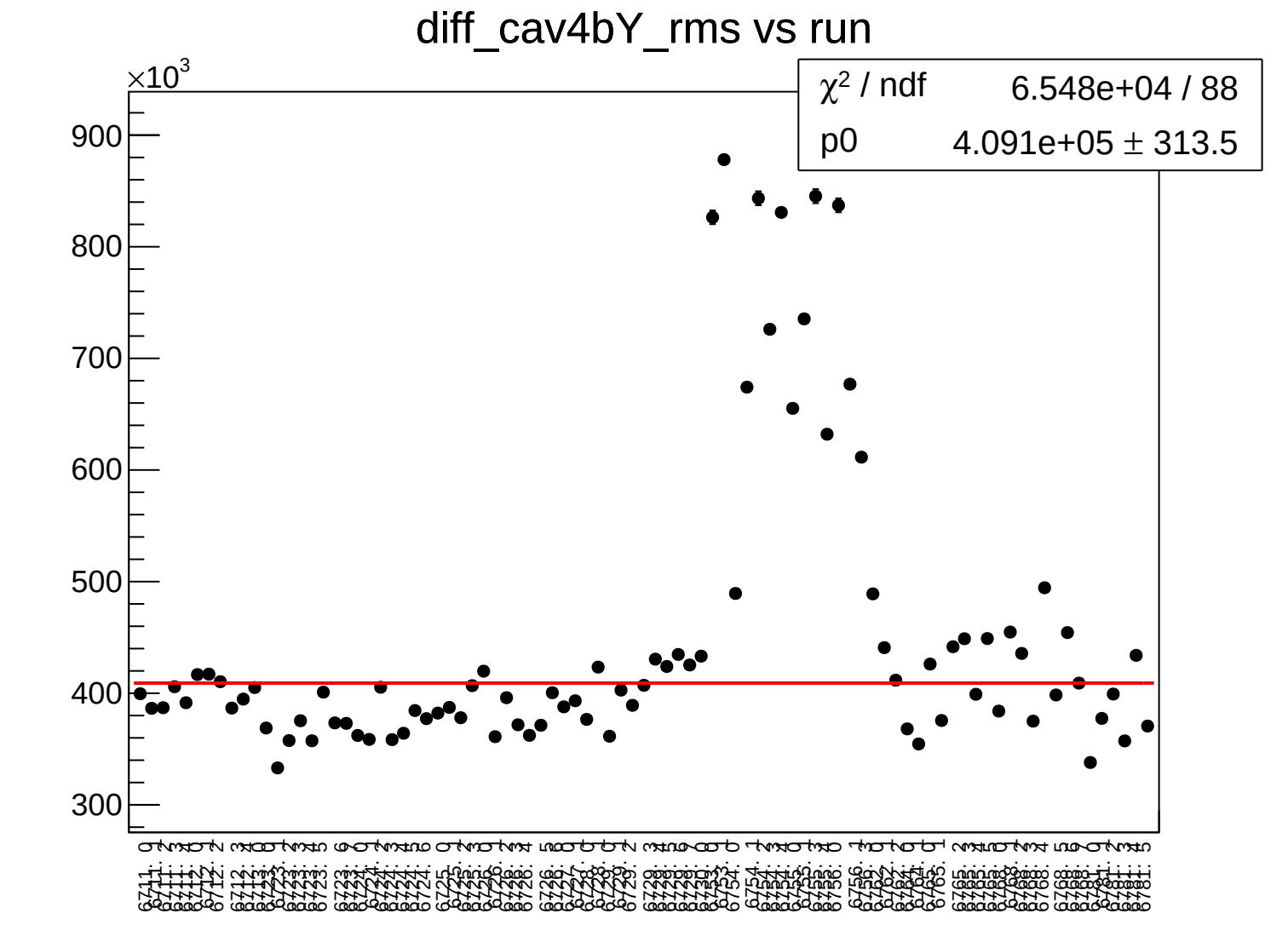

diff_cav4bX_mean vs run
χ^2 / ndf 109.5 / 90
p0 277.6 ± 604.7
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 49.21
Std Dev 77.98
3
2
1
0
−1
−2

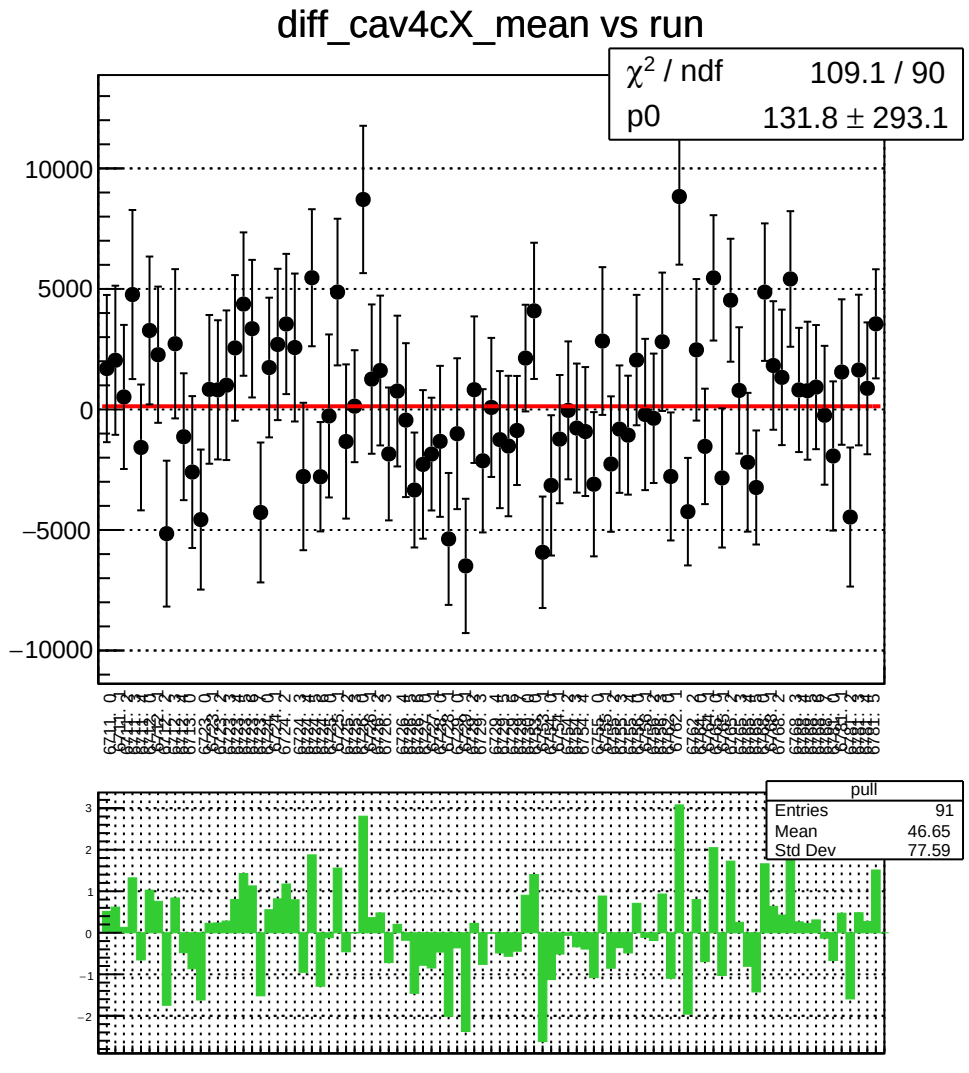

pull1D
Entries 91
Mean 0.02497
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

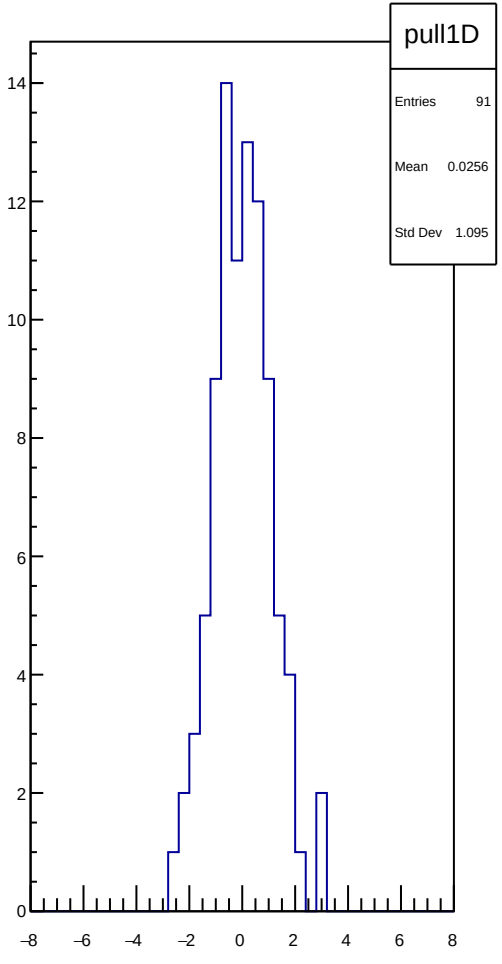

diff_cav4bX_rms vs run
×10^3
χ² / ndf 7924 / 90
p0 5.731e+05 ± 427.6
700
650
600
550
500

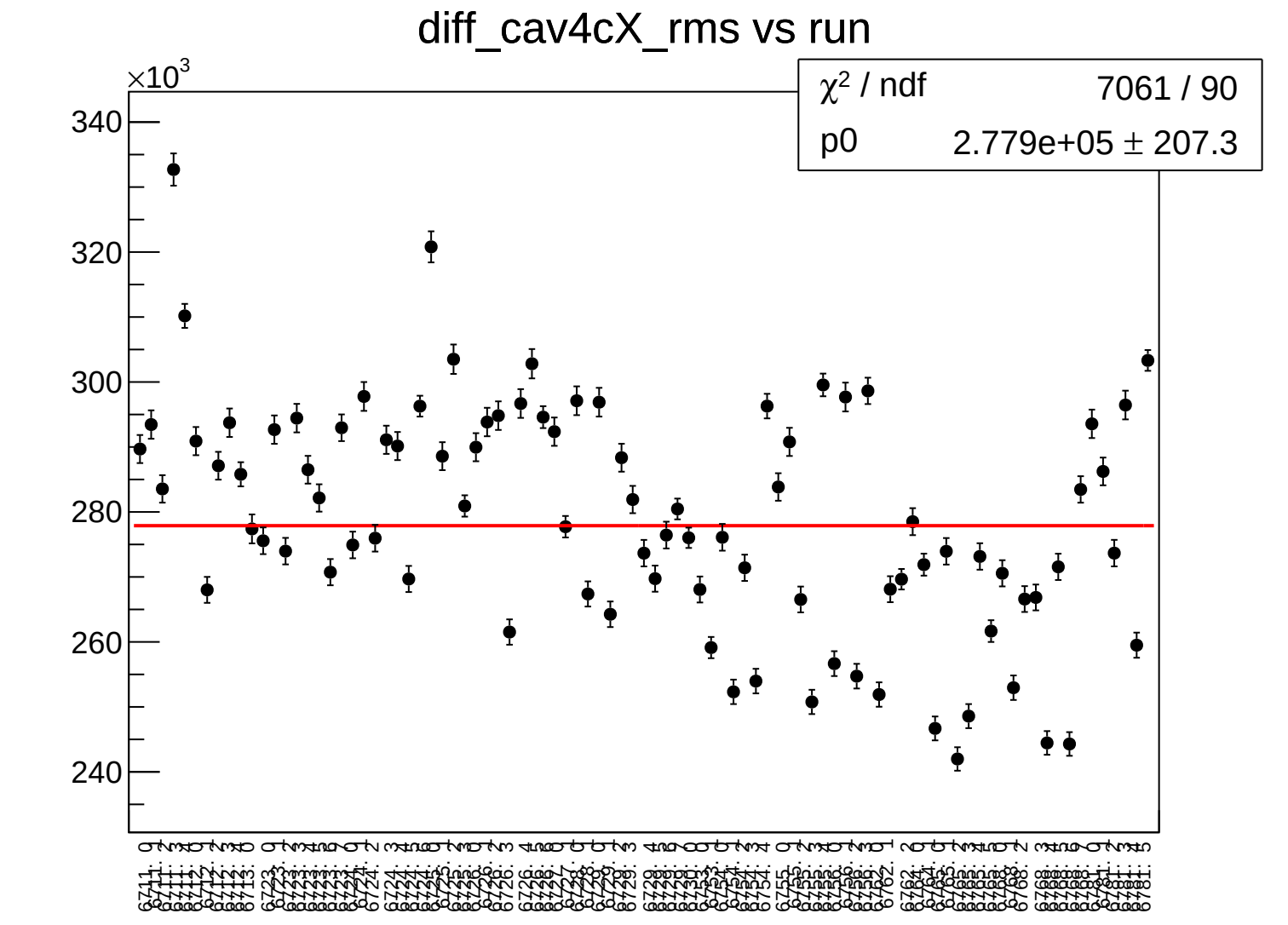

diff_cav4bY_mean vs run
χ² / ndf 92.53 / 90
p0 682.2 ± 442.7
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −1454
Std Dev 0
3
2
1
0
−1
−2

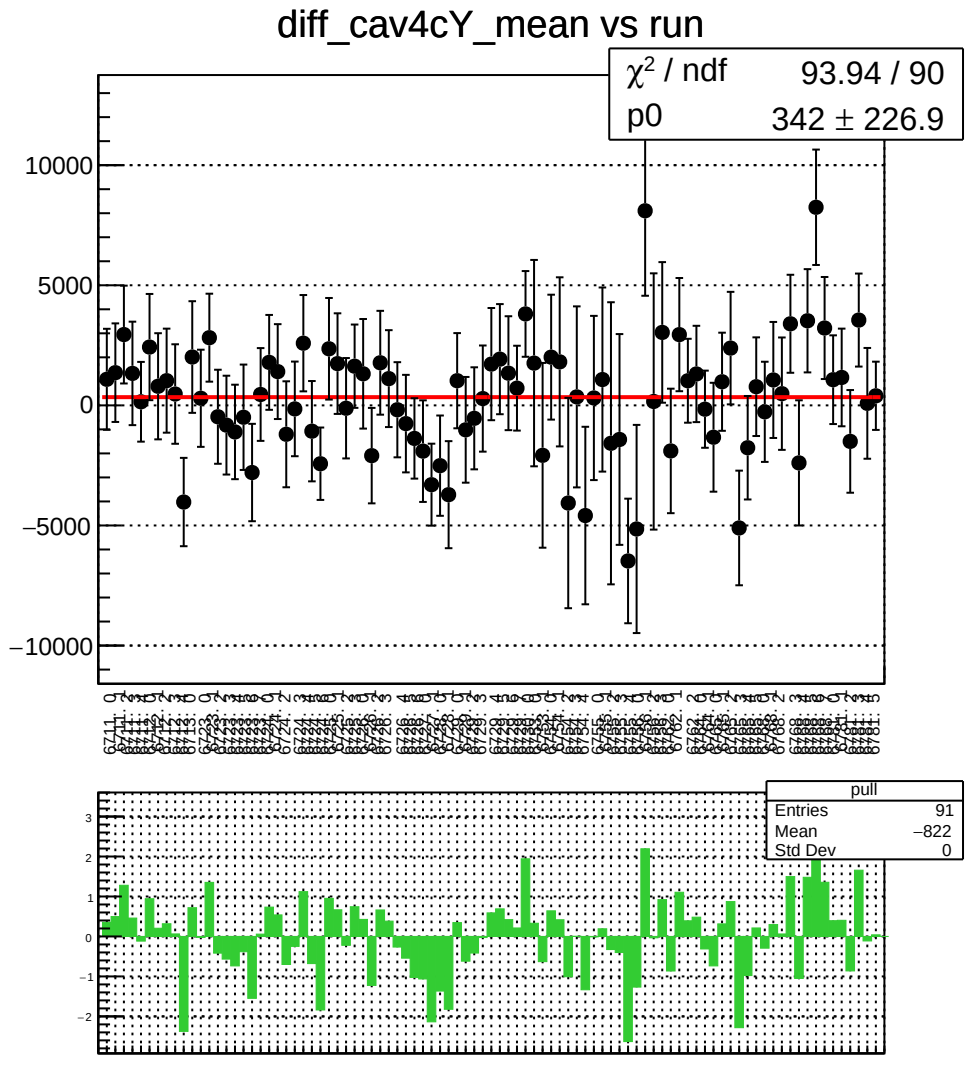

pull1D
Entries 91
Mean −0.001653
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

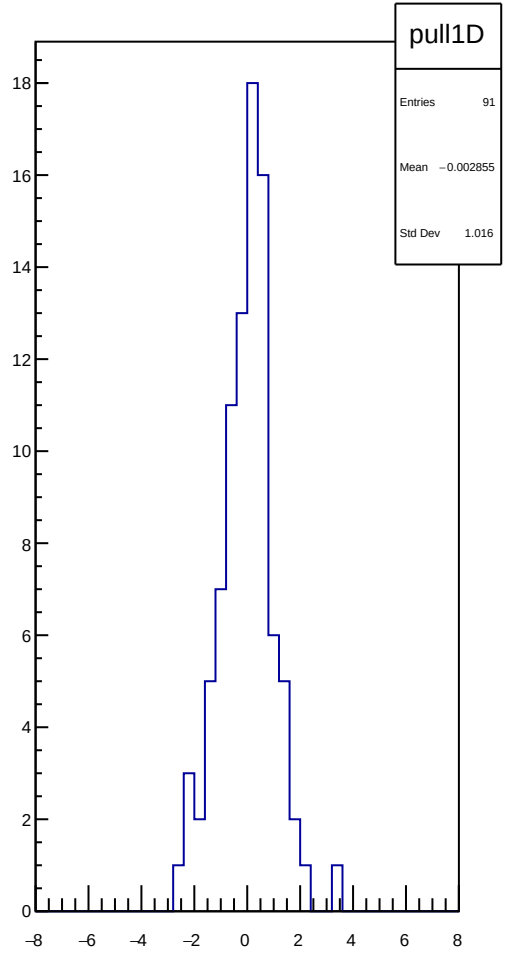

diff_cav4bY_rms vs run
×10^3
χ² / ndf 6.548e+04 / 88
p0 4.091e+05 ± 313.5
900
800
700
600
500
400
300

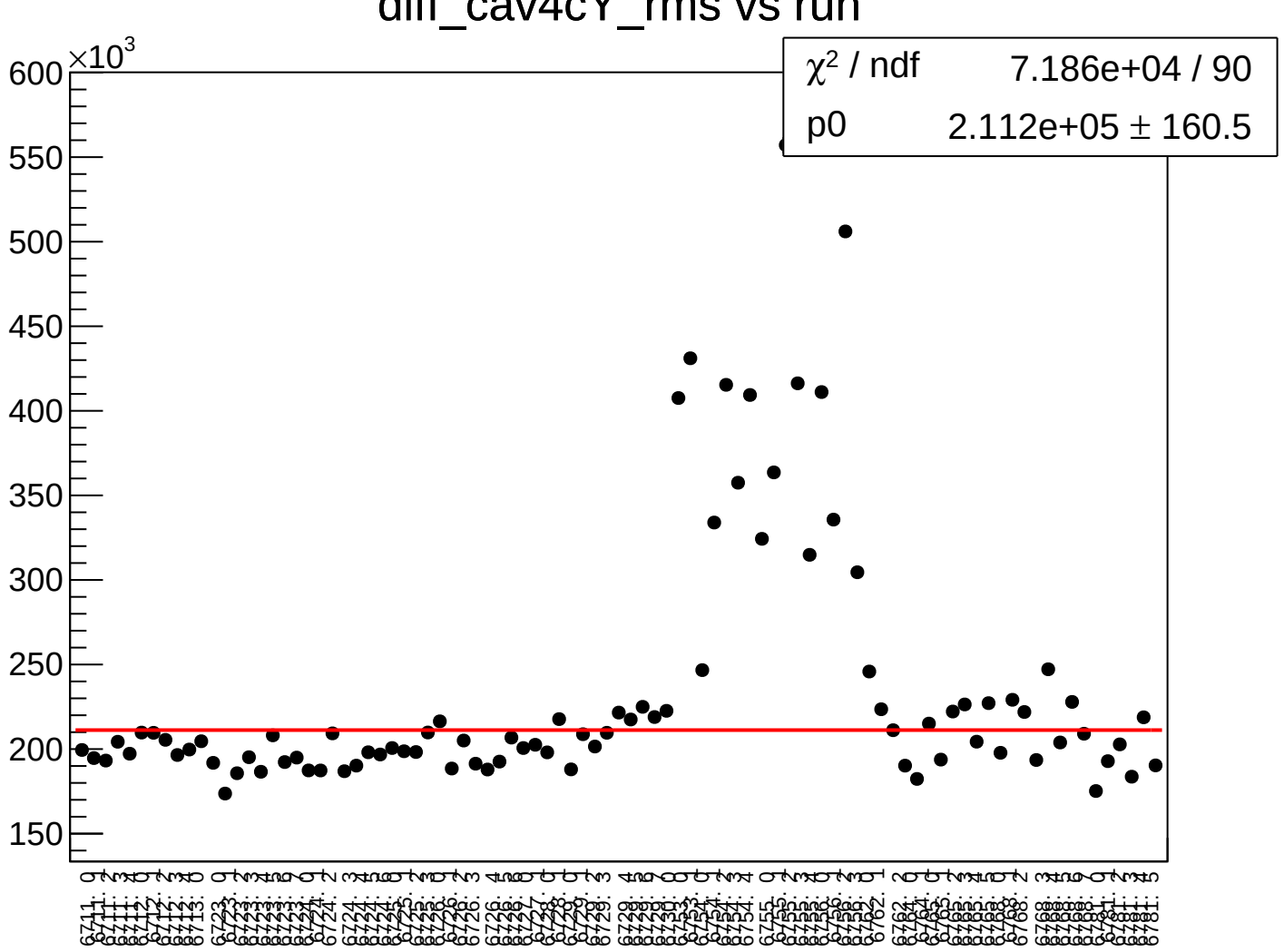

diff_cav4cX_mean vs run
χ² / ndf 109.1 / 90
p0 131.8 ± 293.1
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 46.65
Std Dev 77.59
3
2
1
0
−1
−2

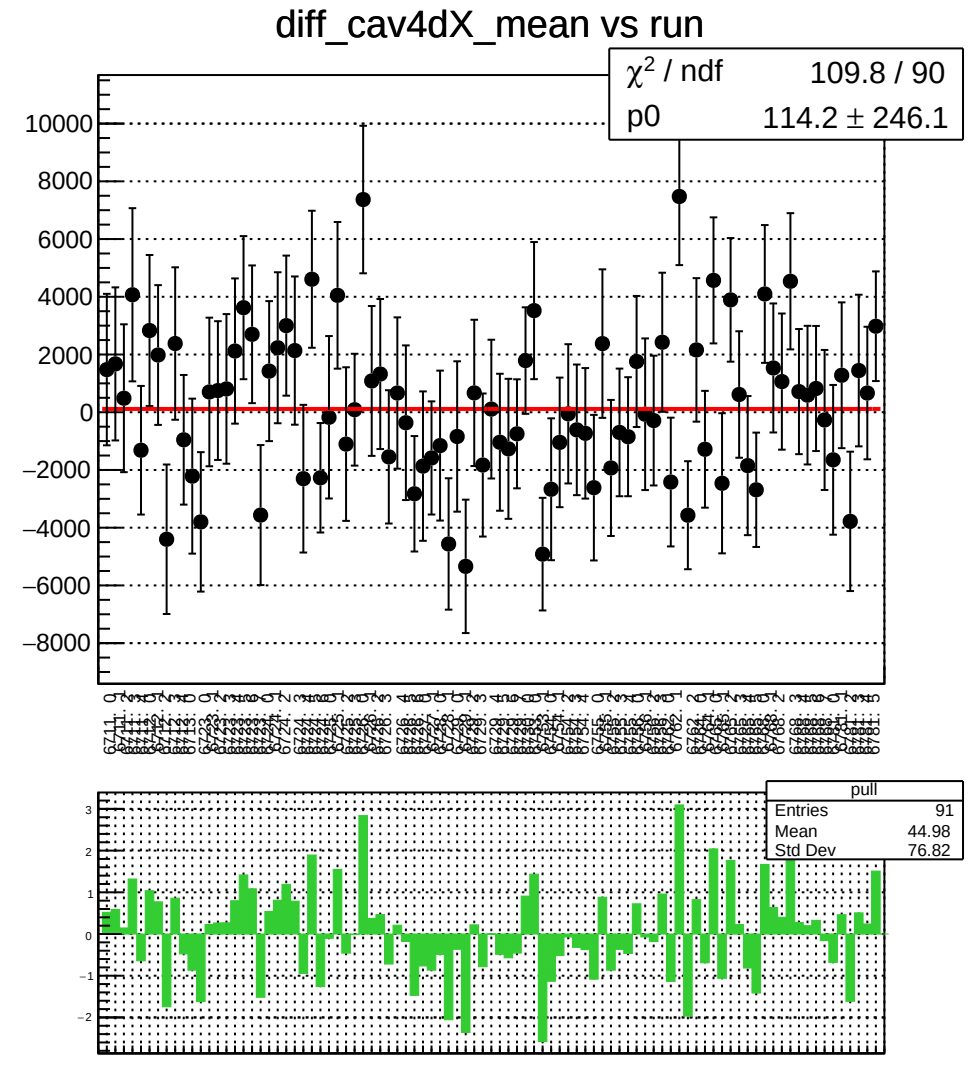

pull1D
Entries 91
Mean 0.0256
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

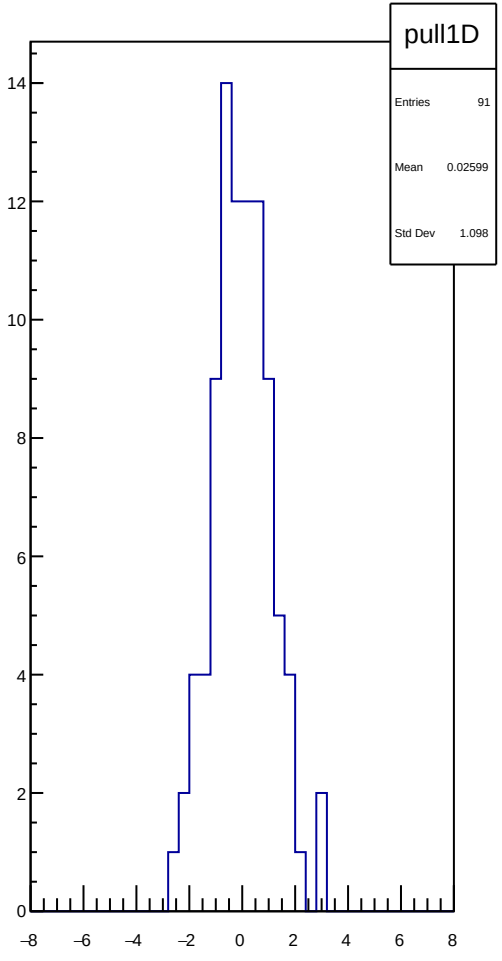

diff_cav4cX_rms vs run
×10^3
340
320
300
280
260
240
χ² / ndf 7061 / 90
p0 2.779e+05 ± 207.3

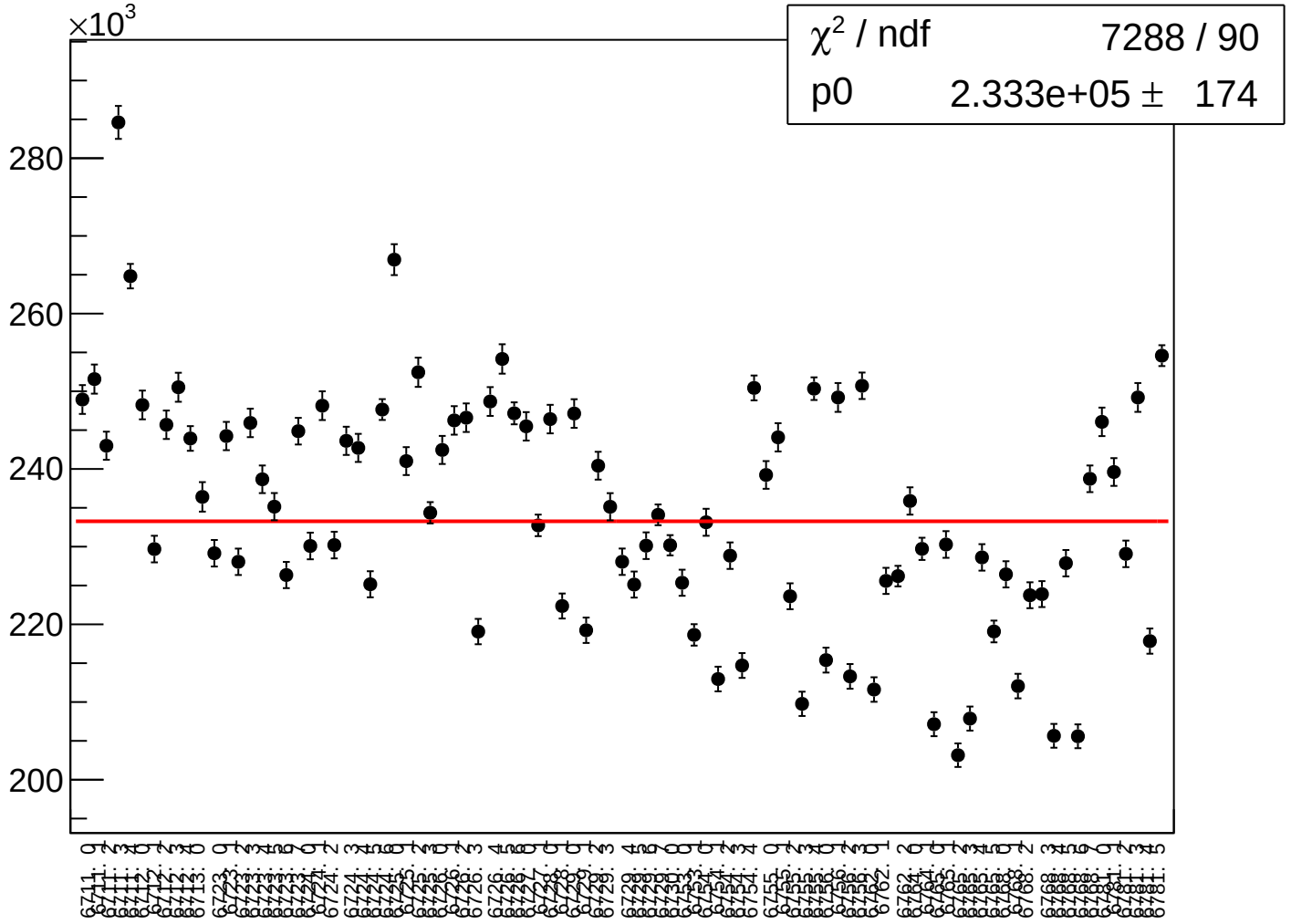

diff_cav4cY_mean vs run
χ² / ndf 93.94 / 90
p0 342 ± 226.9
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −822
Std Dev 0
3
2
1
0
−1
−2

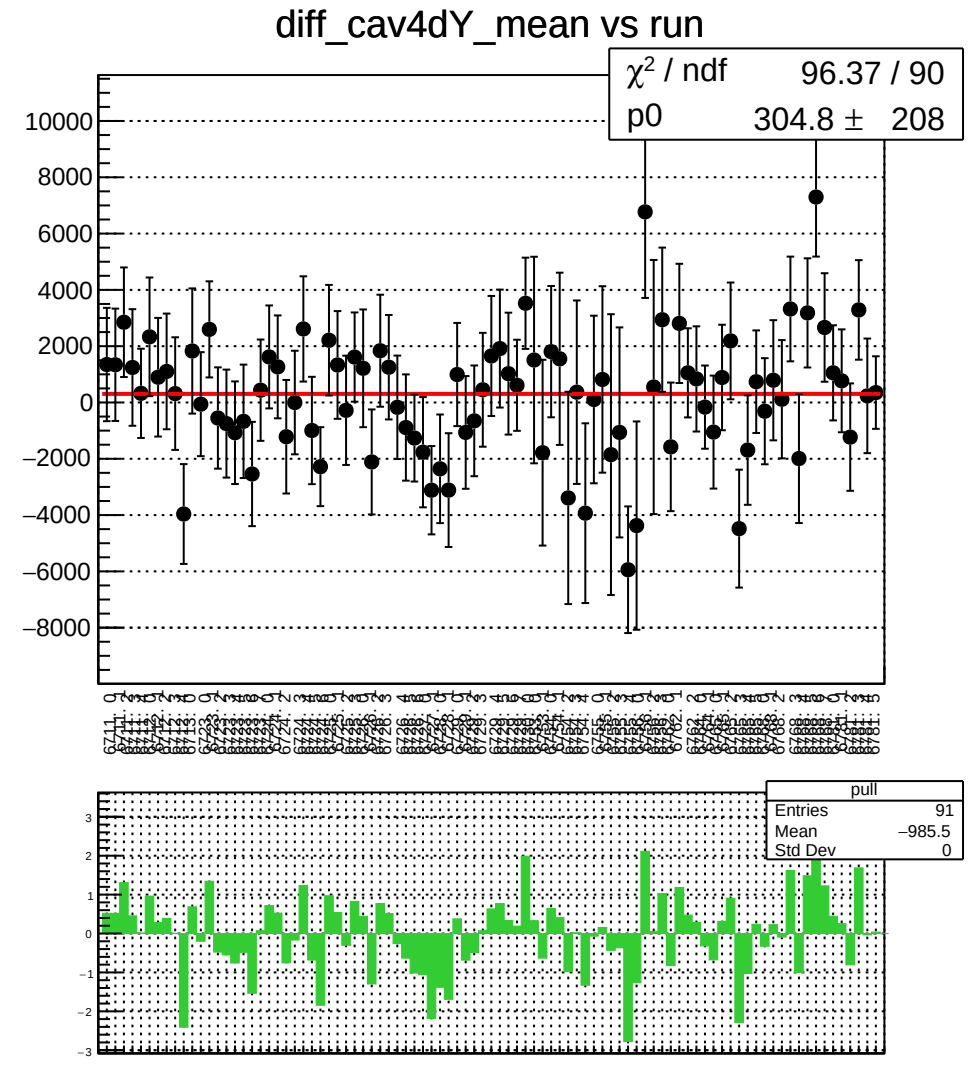

pull1D
Entries 91
Mean −0.002855
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

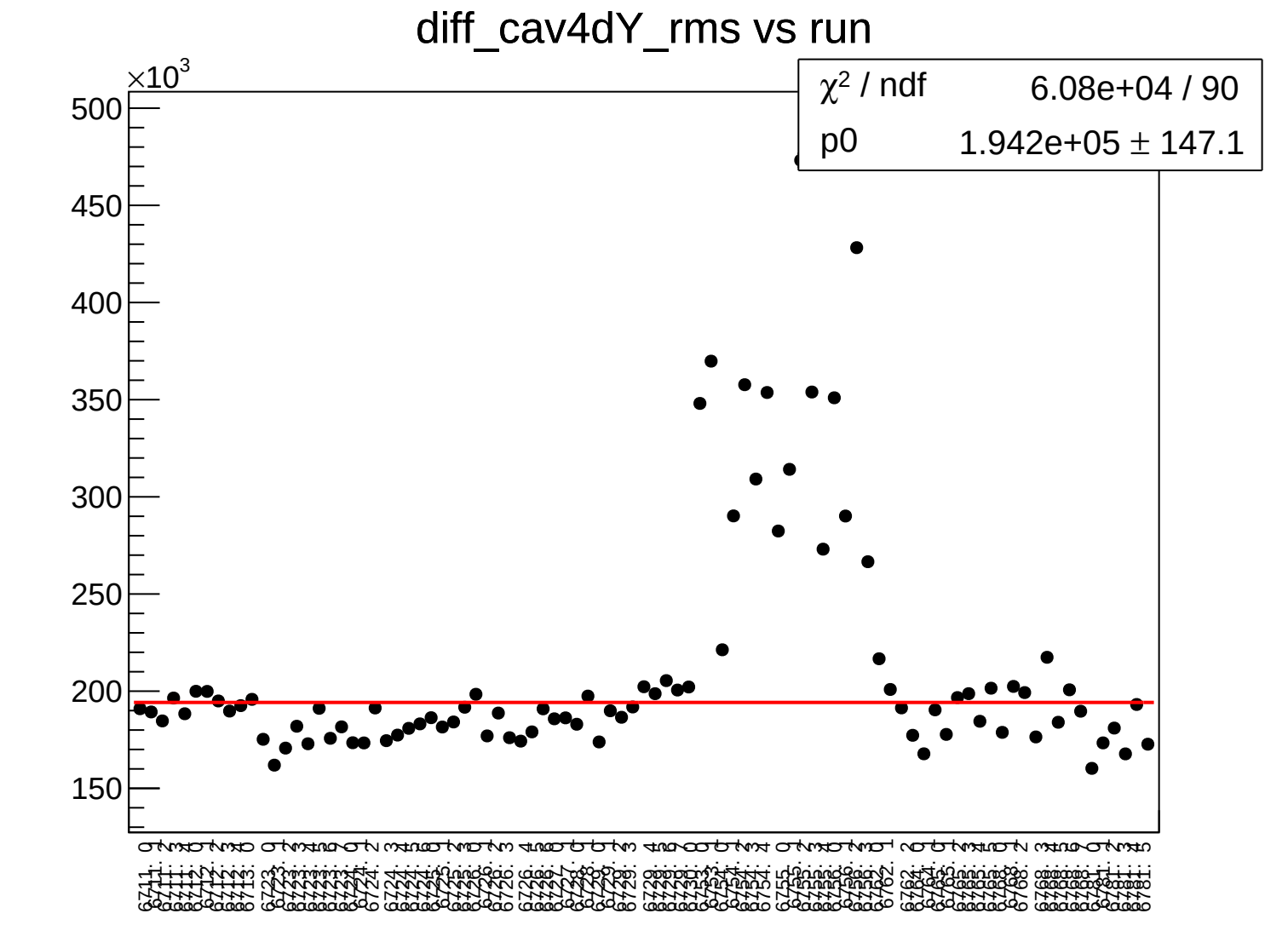

diff_cav4cY_rms vs run
×10^3
600
550
500
450
400
350
300
250
200
150
χ² / ndf 7.186e+04 / 90
p0 2.112e+05 ± 160.5

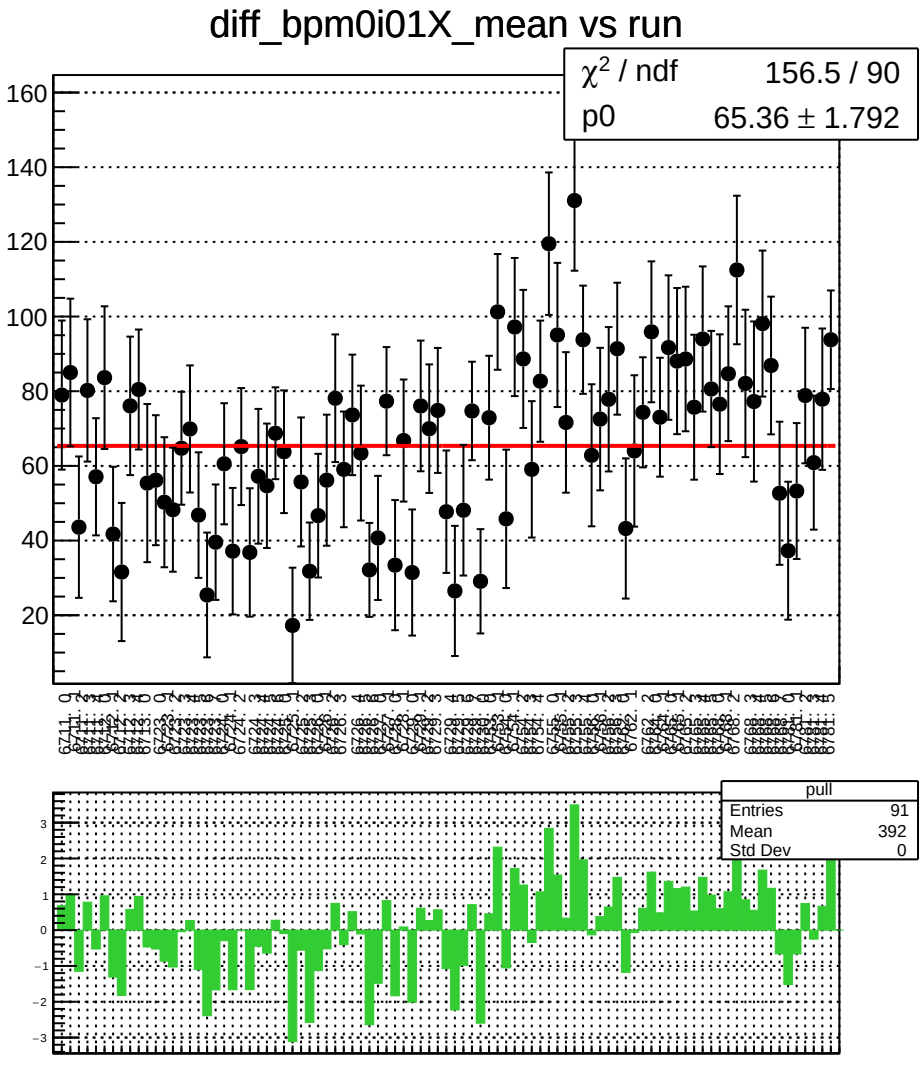

diff_cav4dX_mean vs run
χ^2 / ndf 109.8 / 90
p0 114.2 ± 246.1
pull
Entries 91
Mean 44.98
Std Dev 76.82

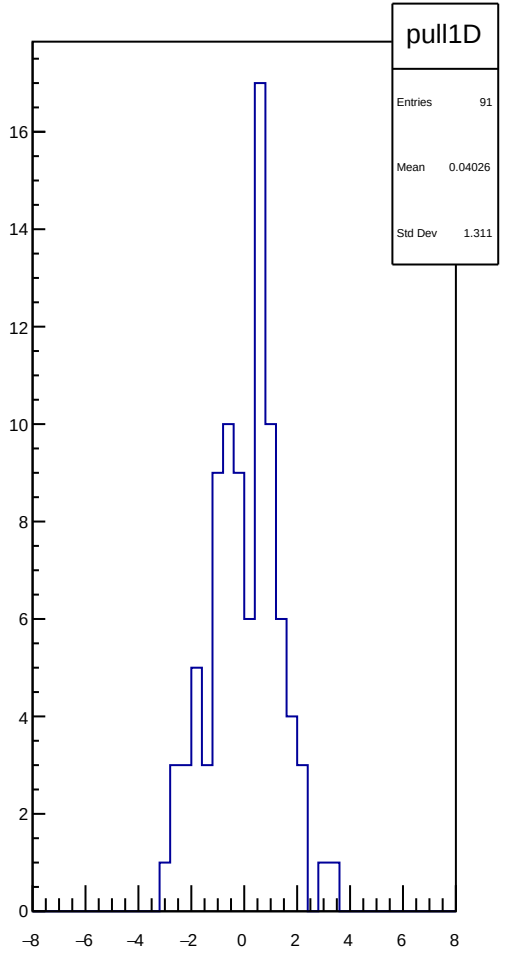

pull1D
Entries 91
Mean 0.02599
Std Dev 1.098

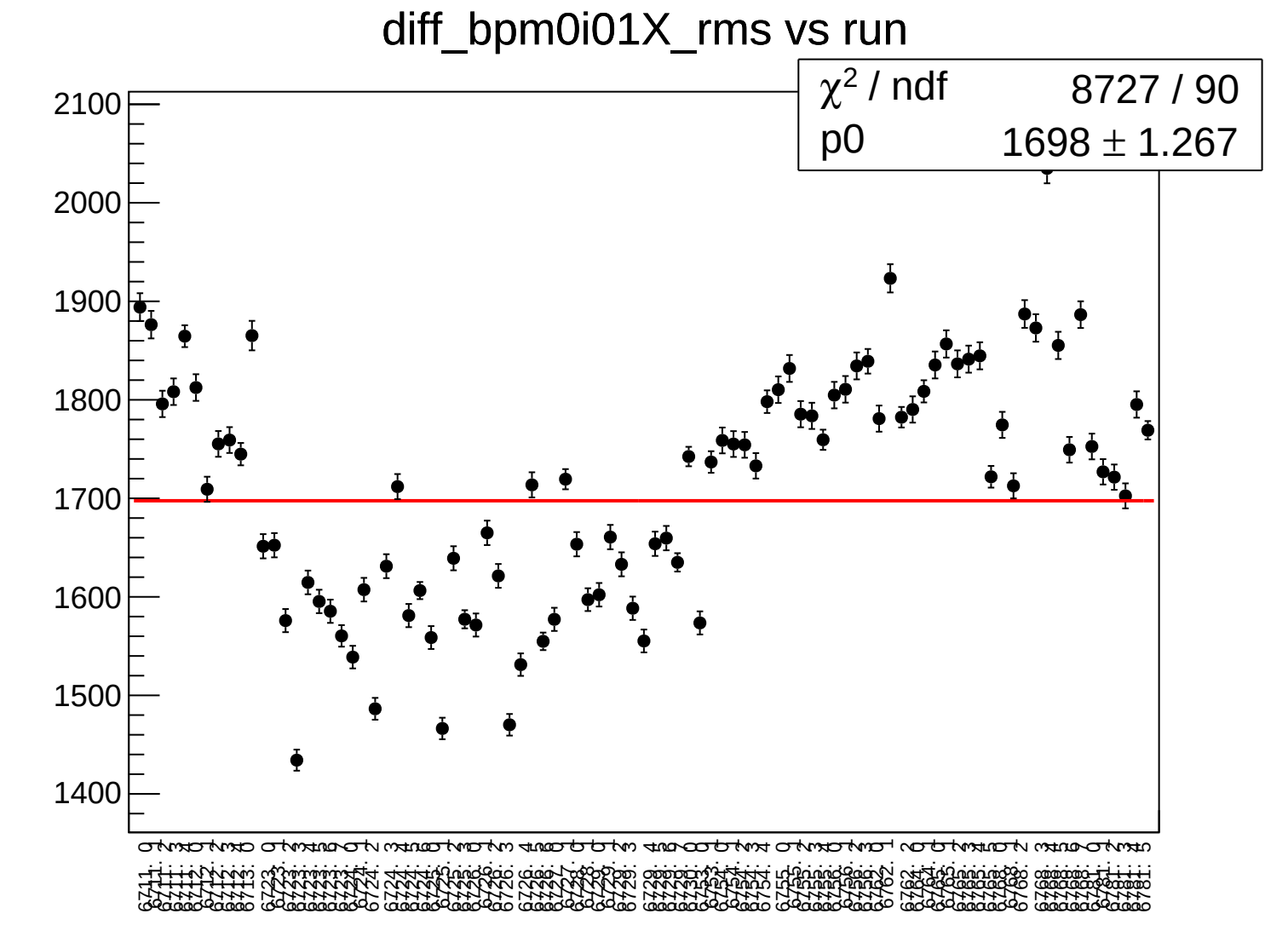

diff_cav4dX_rms vs run
×10^3
χ^2 / ndf 7288 / 90
p0 2.333e+05 ± 174
280
260
240
220
200

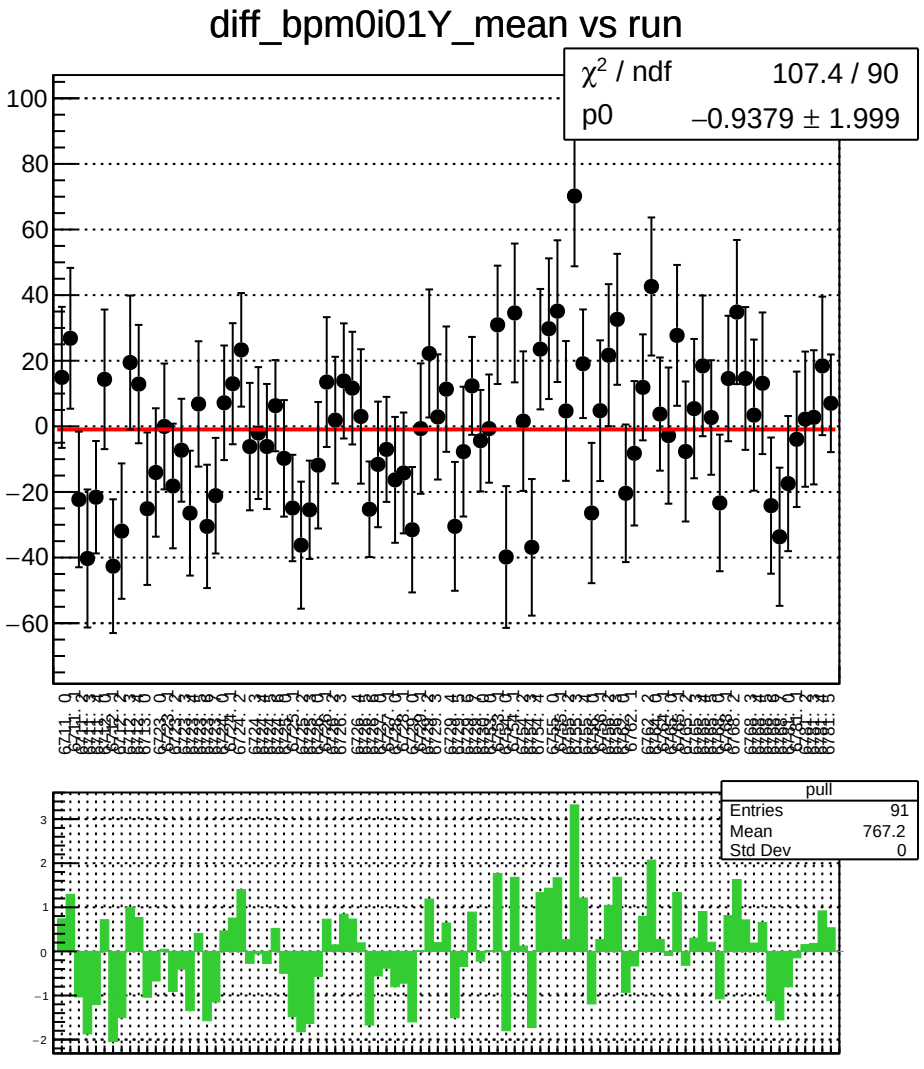

diff_cav4dY_mean vs run
χ² / ndf 96.37 / 90
p0 304.8 ± 208
pull
Entries 91
Mean −985.5
Std Dev 0
pull1D
Entries 91
Mean −0.002272
Std Dev 1.029

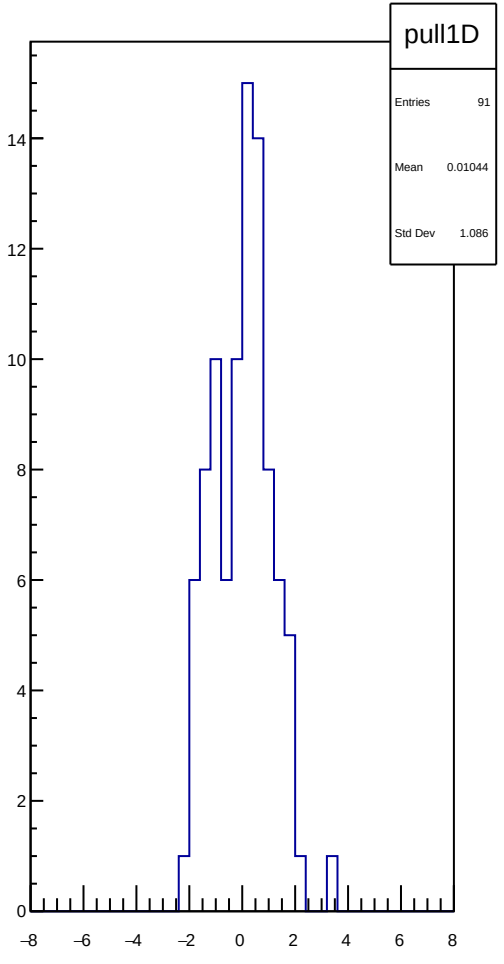

diff_cav4dY_rms vs run
×10^3
χ² / ndf 6.08e+04 / 90
p0 1.942e+05 ± 147.1
500
450
400
350
300
250
200
150

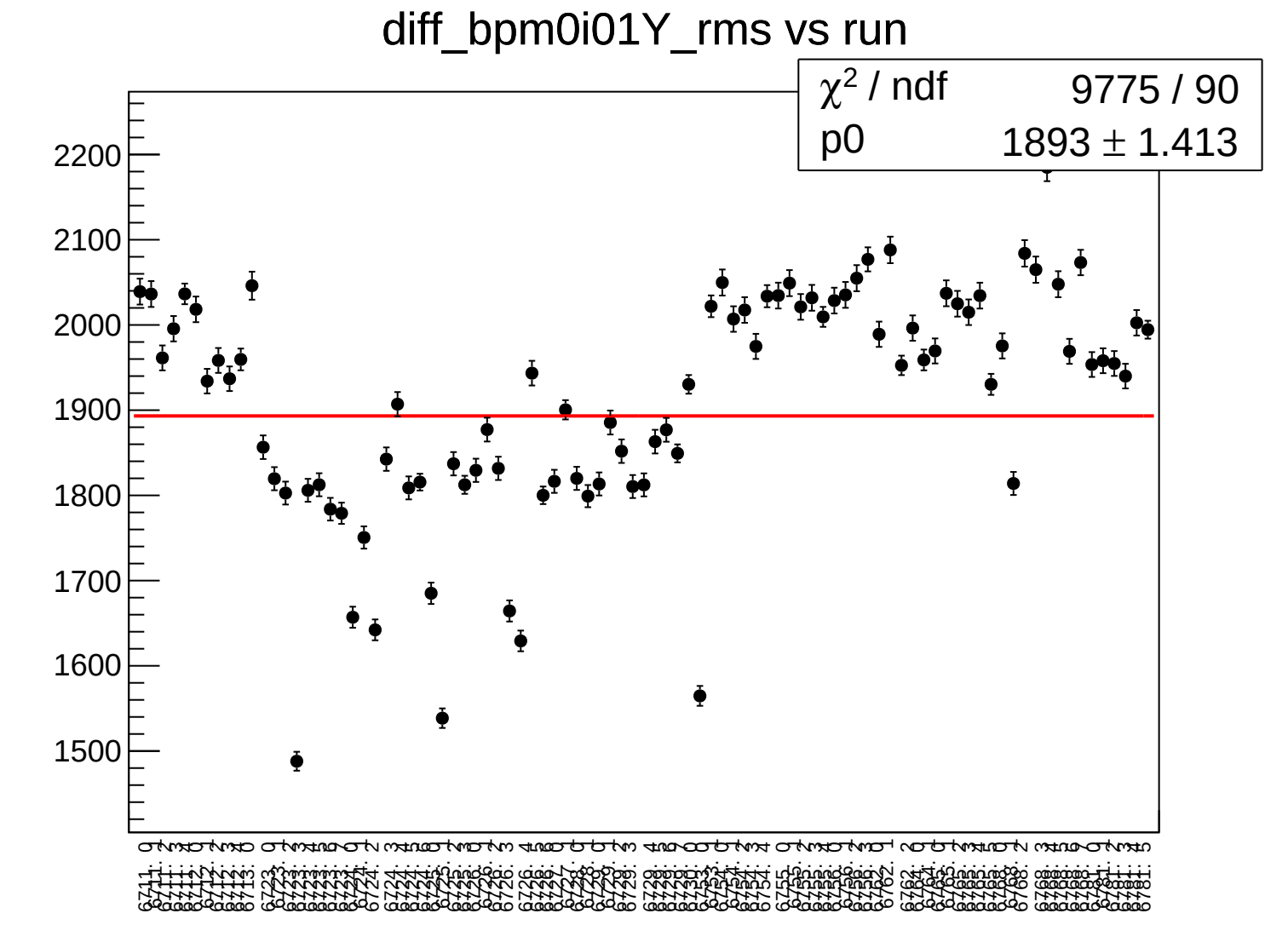

diff_bpm0i01X_mean vs run
χ^2 / ndf 156.5 / 90
p0 65.36 ± 1.792
160
140
120
100
80
60
40
20
pull
Entries 91
Mean 392
Std Dev 0
3
2
1
0
−1
−2
−3

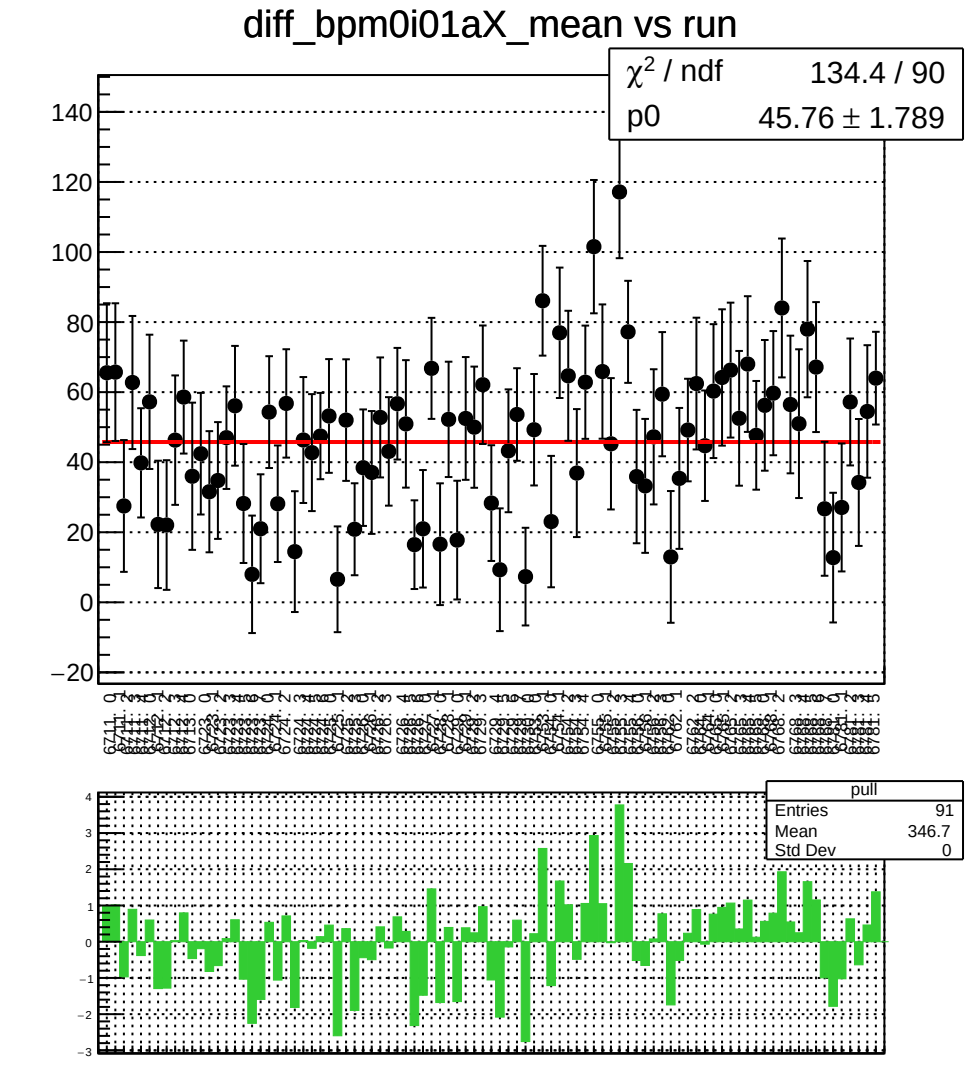

pull1D
Entries 91
Mean 0.04026
Std Dev 1.311
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

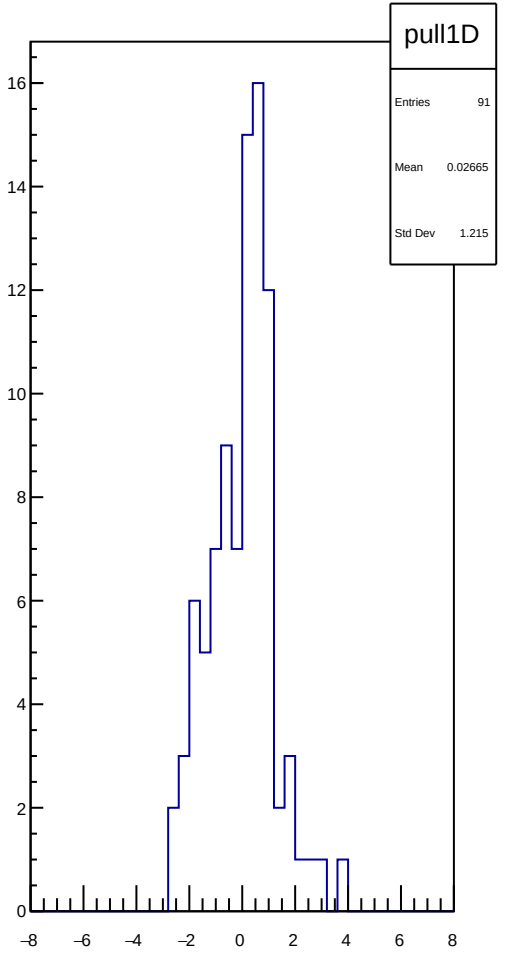

diff_bpm0i01X_rms vs run
χ² / ndf 8727 / 90
p0 1698 ± 1.267
2100
2000
1900
1800
1700
1600
1500
1400

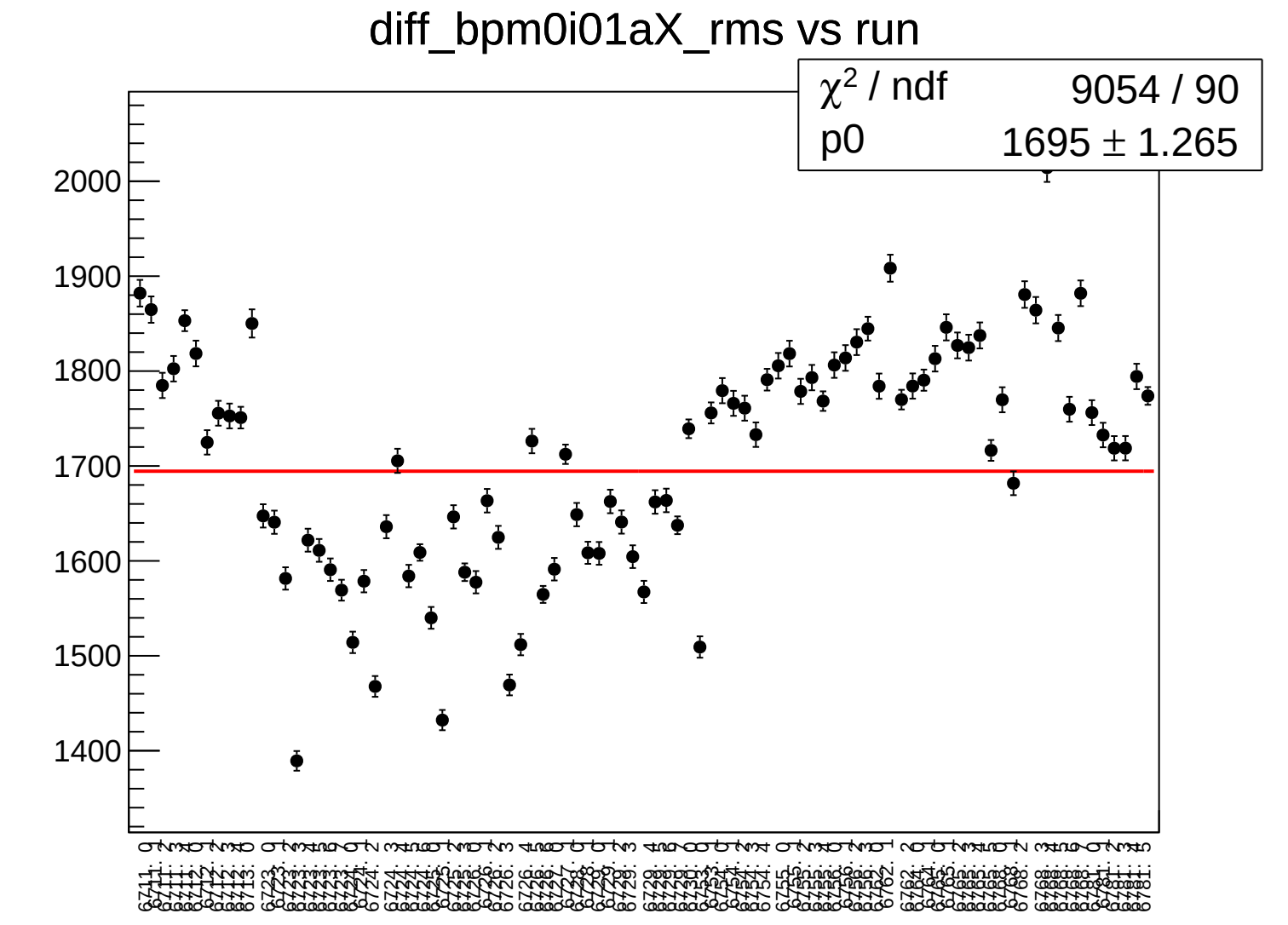

diff_bpm0i01Y_mean vs run
χ² / ndf 107.4 / 90
p0 −0.9379 ± 1.999
pull
Entries 91
Mean 767.2
Std Dev 0

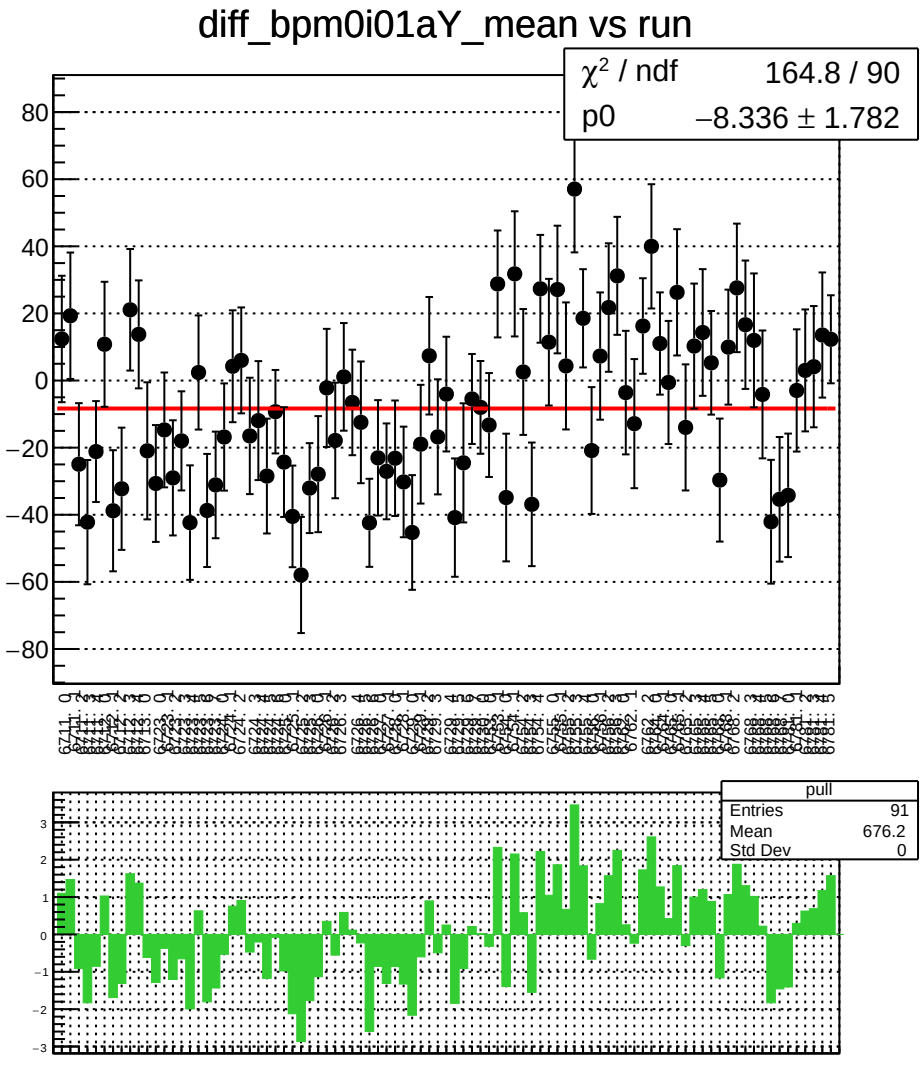

pull1D
Entries 91
Mean 0.01044
Std Dev 1.086

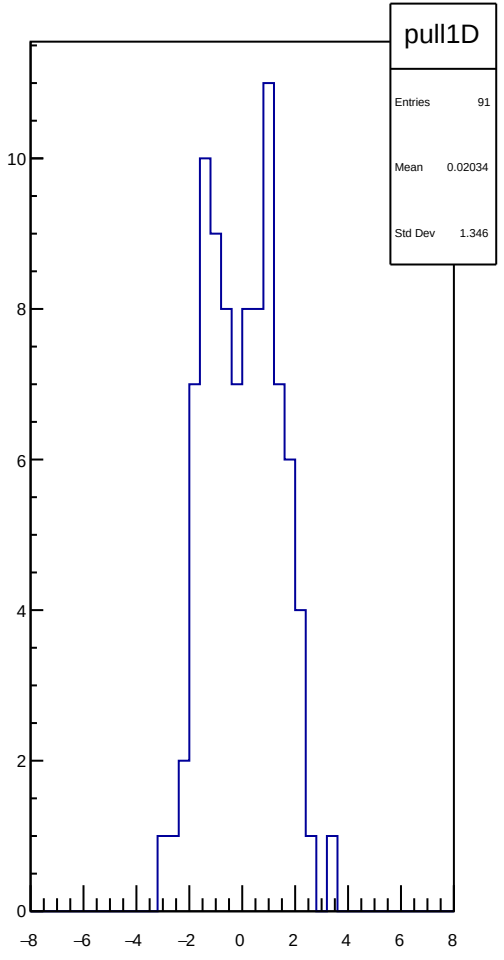

diff_bpm0i01Y_rms vs run
χ² / ndf 9775 / 90
p0 1893 ± 1.413
2200
2100
2000
1900
1800
1700
1600
1500

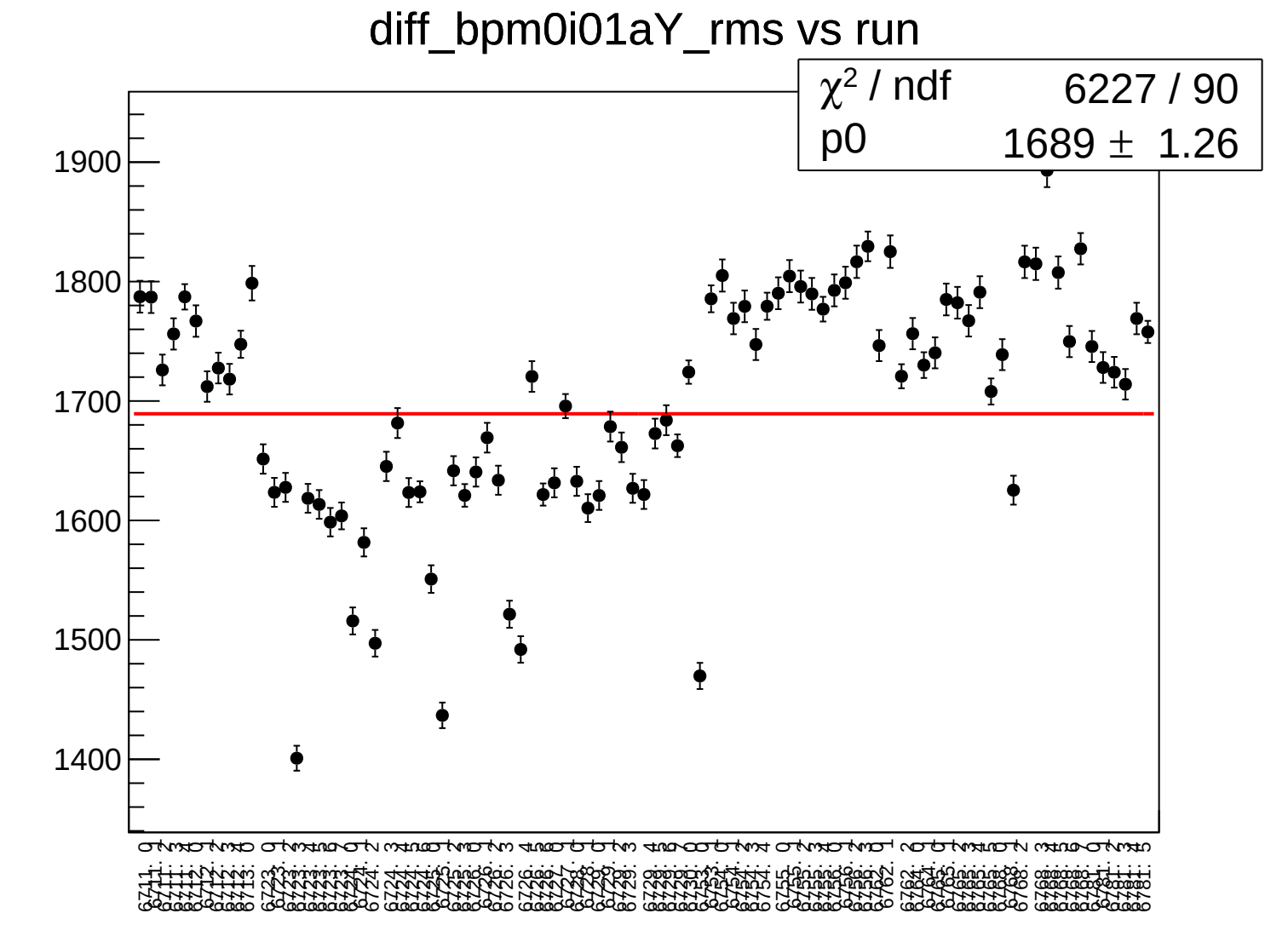

diff_bpm0i01aX_mean vs run
χ² / ndf 134.4 / 90
p0 45.76 ± 1.789
pull
Entries 91
Mean 346.7
Std Dev 0

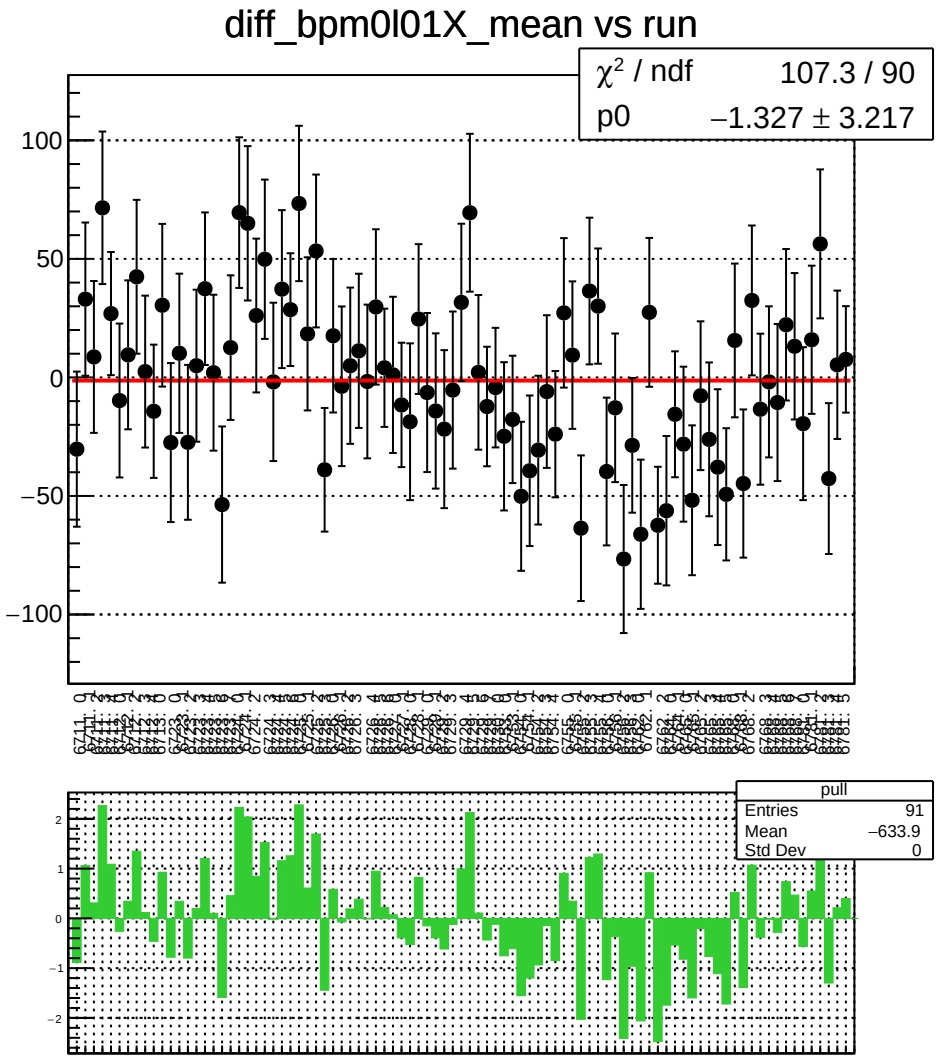

pull1D
Entries 91
Mean 0.02665
Std Dev 1.215

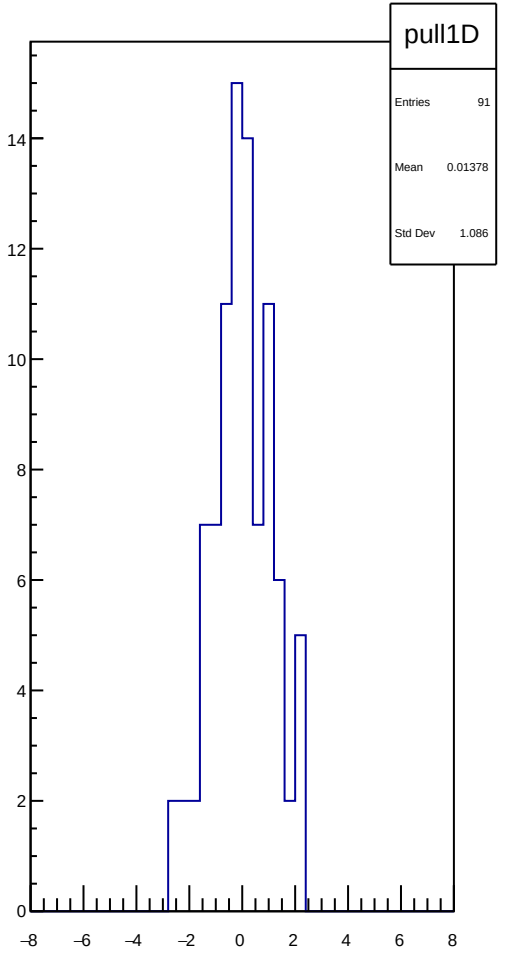

diff_bpm0i01aX_rms vs run
χ² / ndf 9054 / 90
p0 1695 ± 1.265
2000
1900
1800
1700
1600
1500
1400

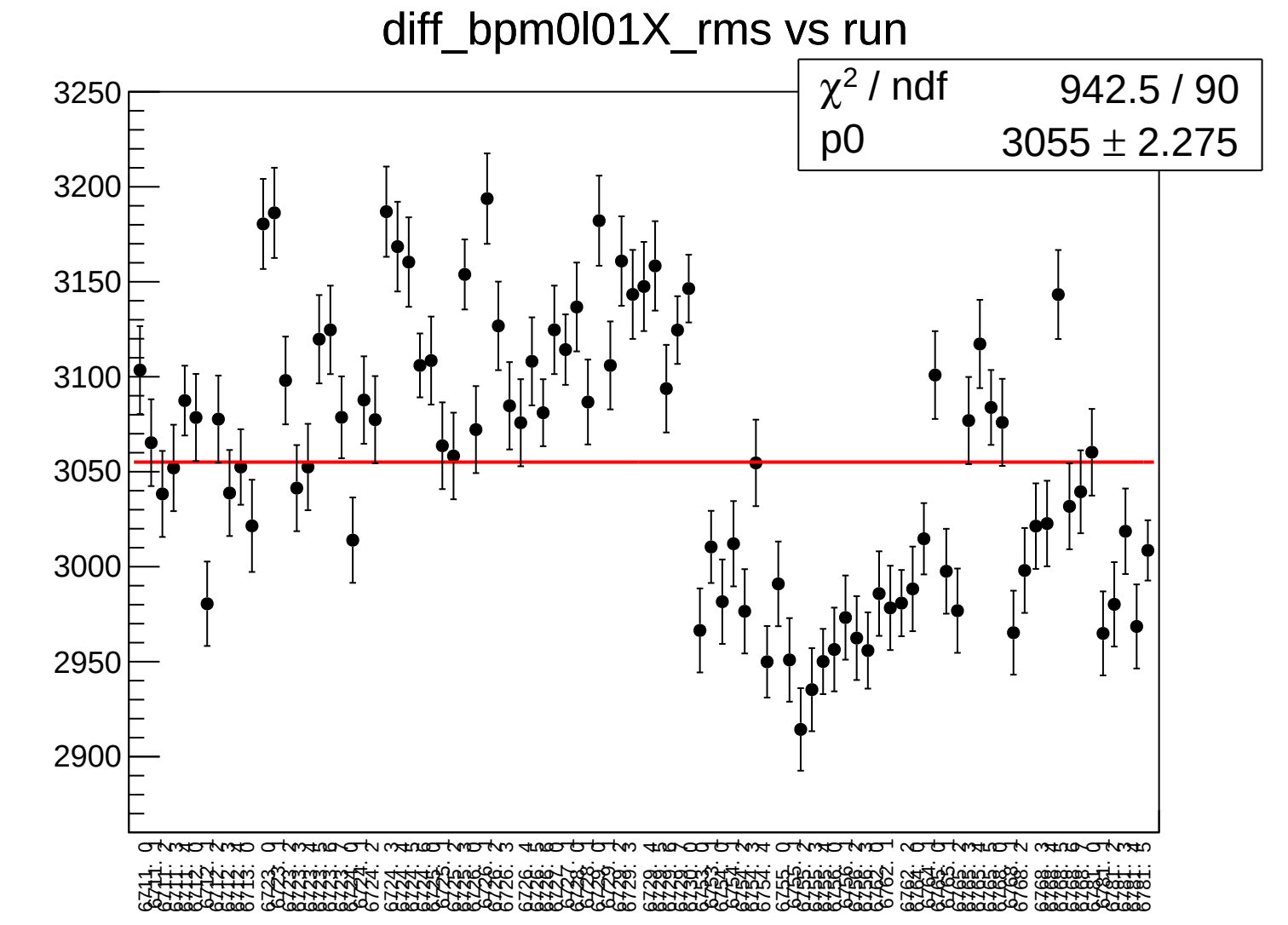

diff_bpm0i01aY_mean vs run
χ² / ndf 164.8 / 90
p0 −8.336 ± 1.782
pull
Entries 91
Mean 676.2
Std Dev 0

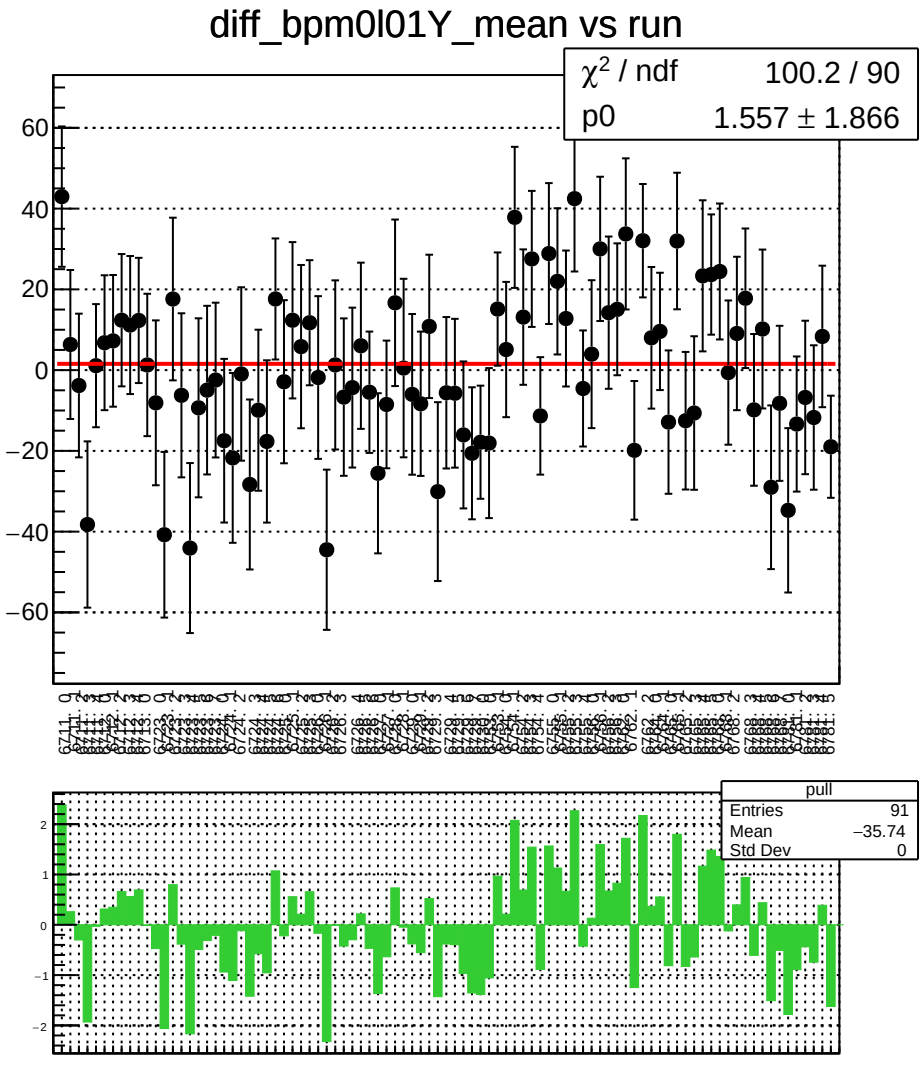

pull1D
Entries 91
Mean 0.02034
Std Dev 1.346

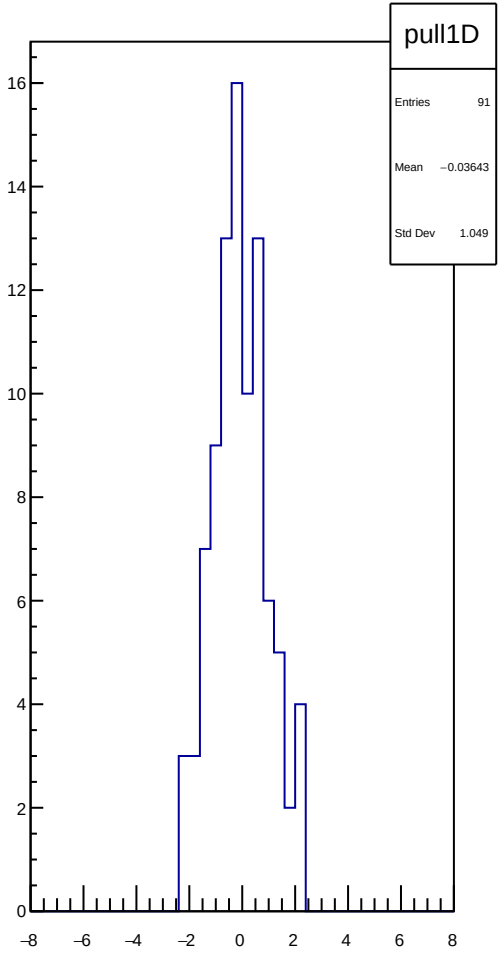

diff_bpm0i01aY_rms vs run
χ² / ndf 6227 / 90
p0 1689 ± 1.26
1900
1800
1700
1600
1500
1400

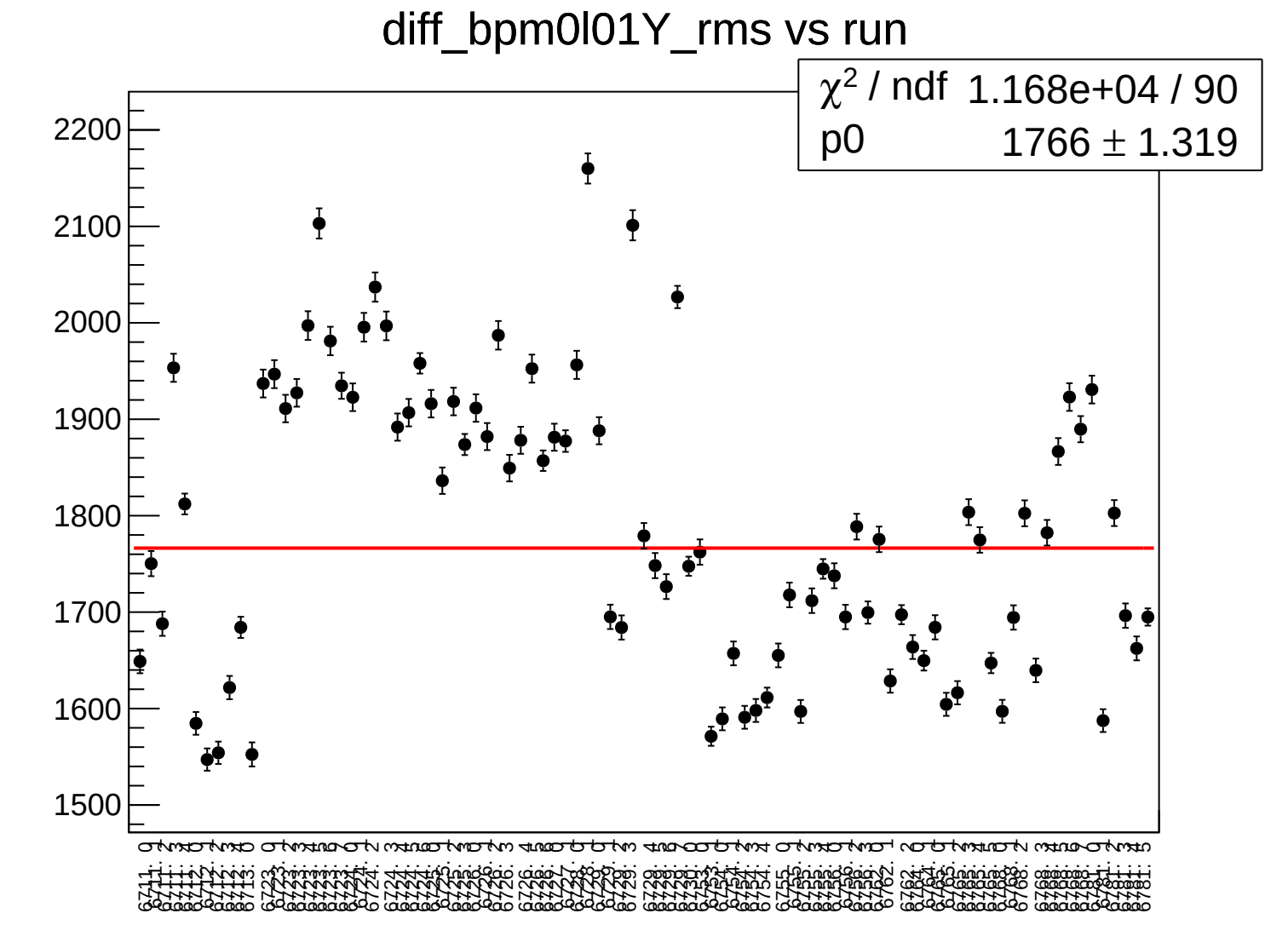

diff_bpm0l01X_mean vs run
χ² / ndf 107.3 / 90
p0 −1.327 ± 3.217
100
50
0
−50
−100
pull
Entries 91
Mean −633.9
Std Dev 0
2
1
0
−1
−2

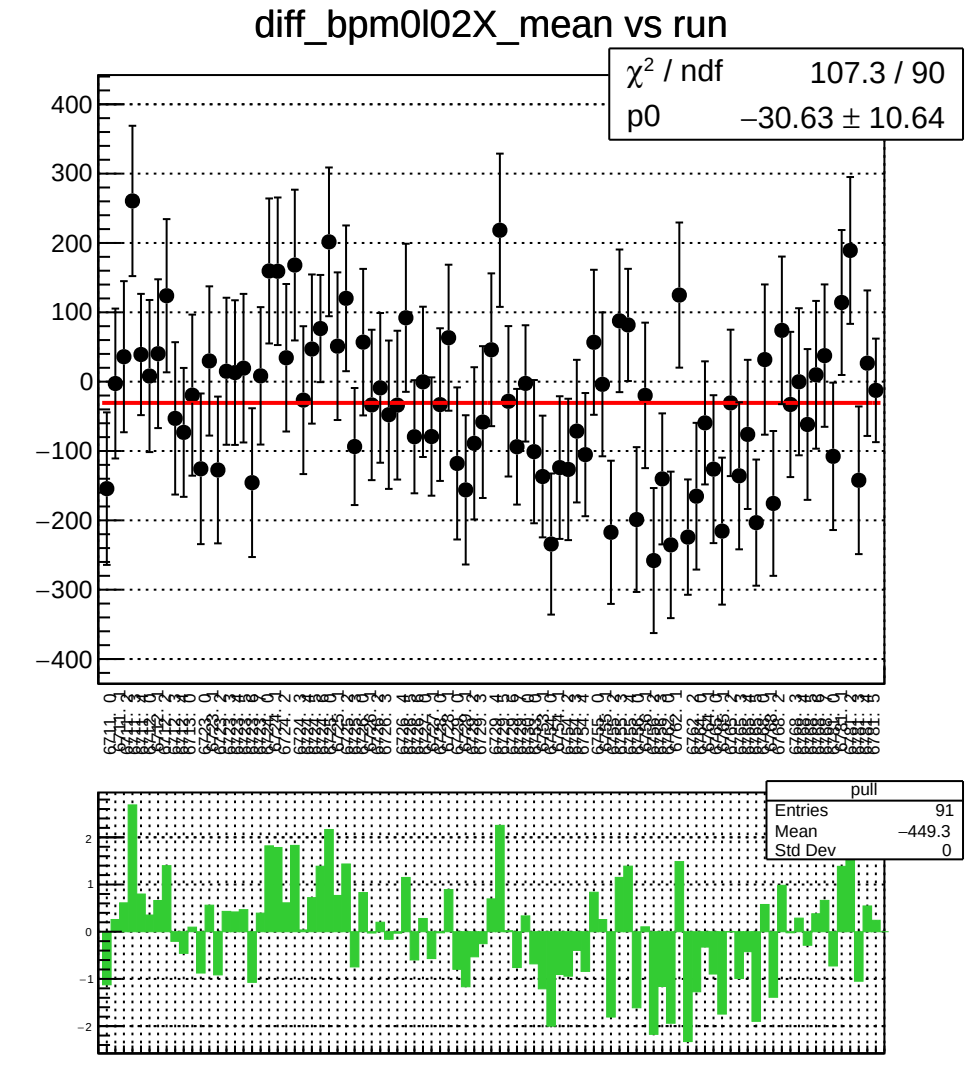

pull1D
Entries 91
Mean 0.01378
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

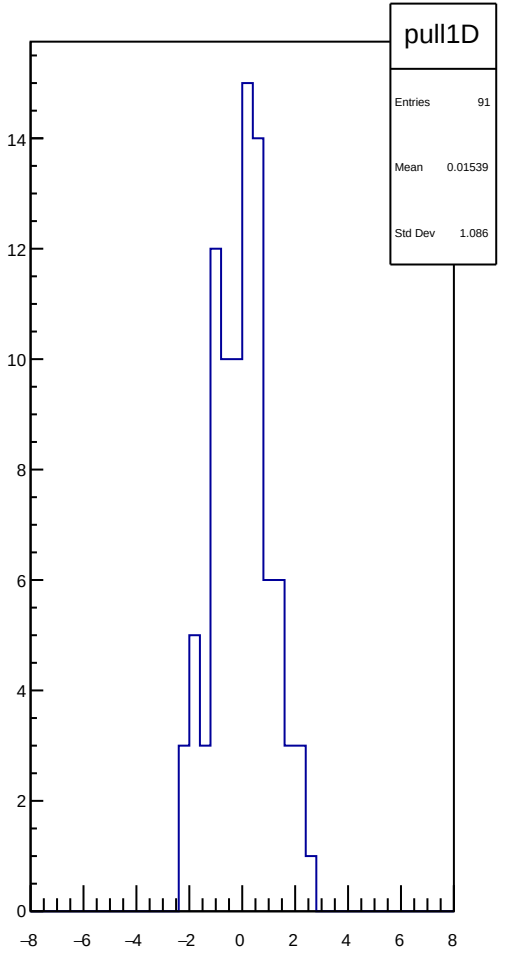

diff_bpm0l01X_rms vs run
χ² / ndf 942.5 / 90
p0 3055 ± 2.275
3250
3200
3150
3100
3050
3000
2950
2900

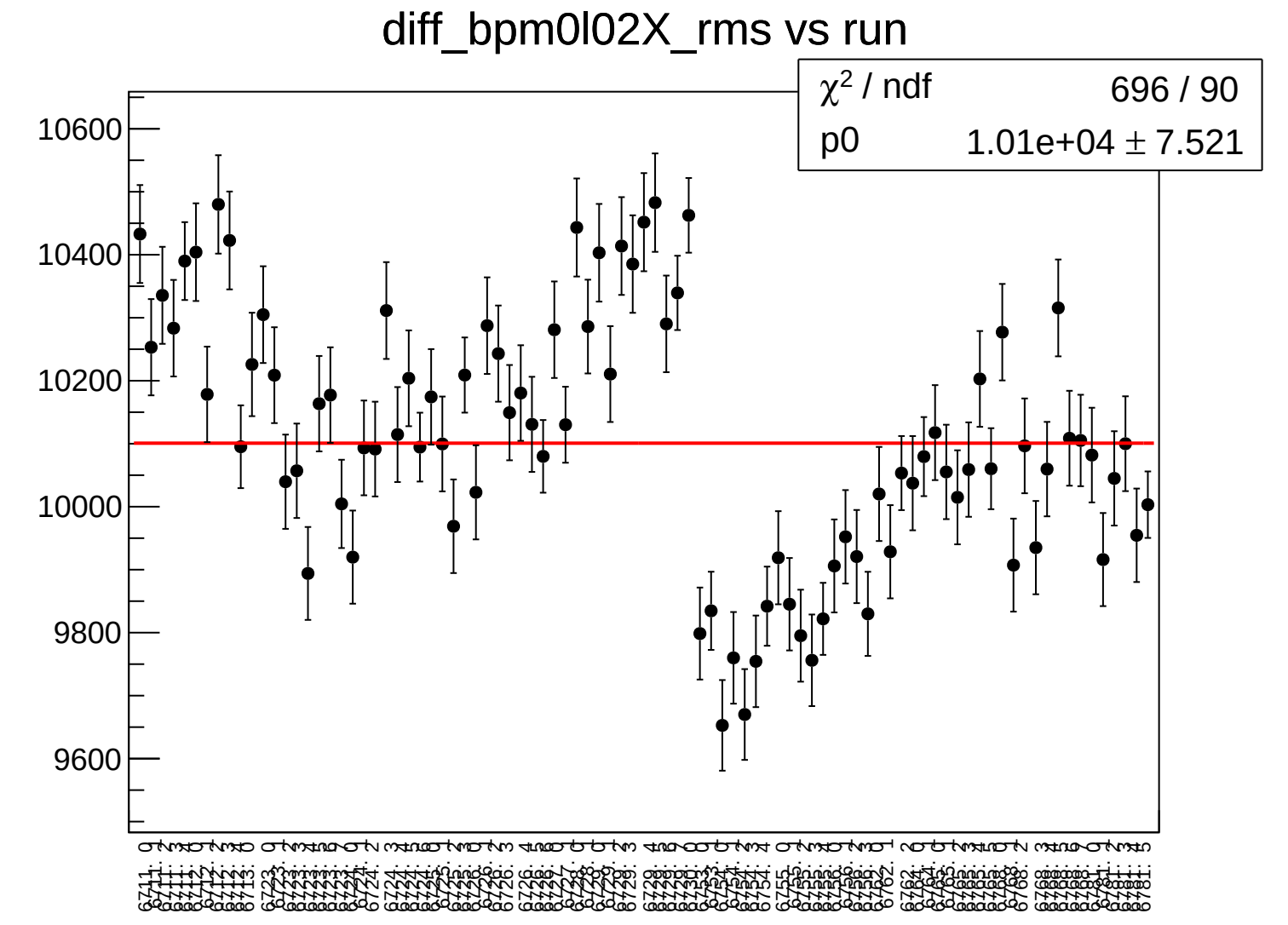

diff_bpm0l01Y_mean vs run
χ² / ndf 100.2 / 90
p0 1.557 ± 1.866
pull
Entries 91
Mean −35.74
Std Dev 0

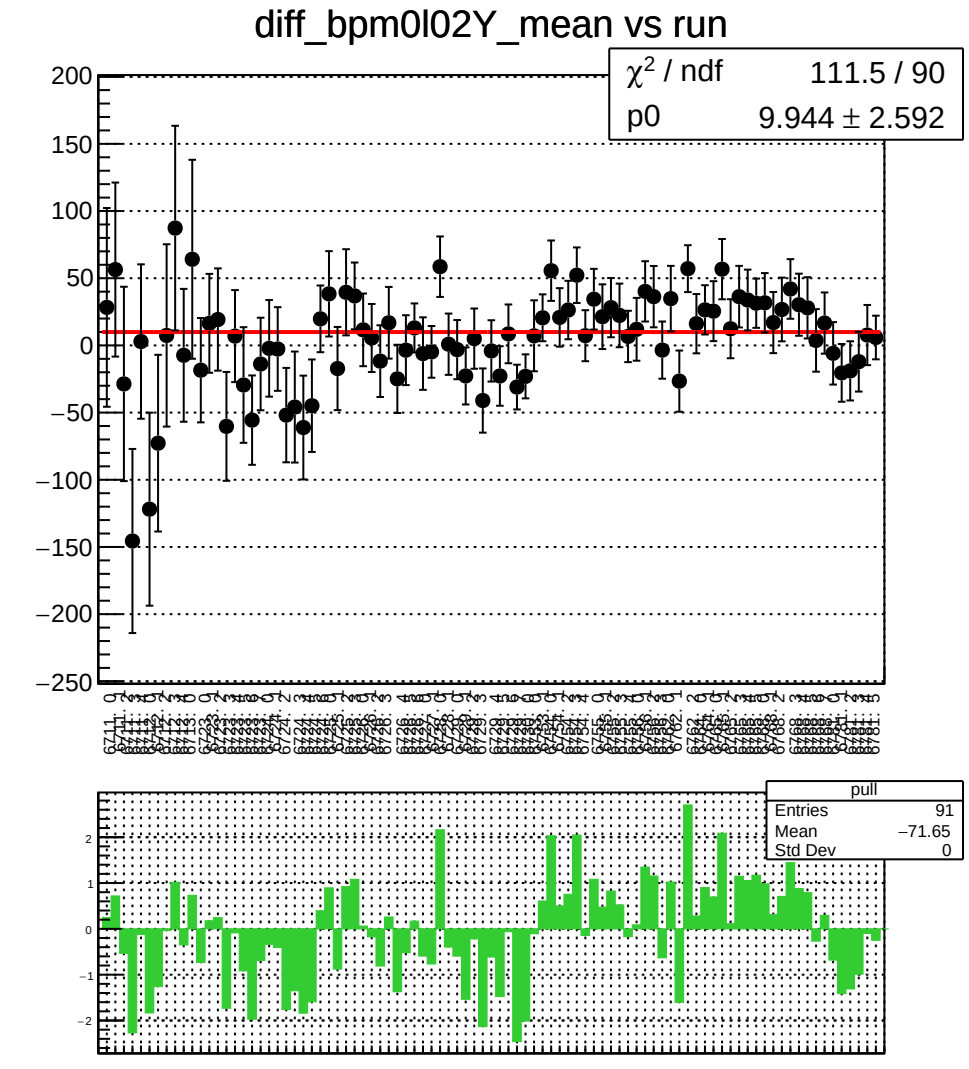

pull1D
Entries 91
Mean −0.03643
Std Dev 1.049

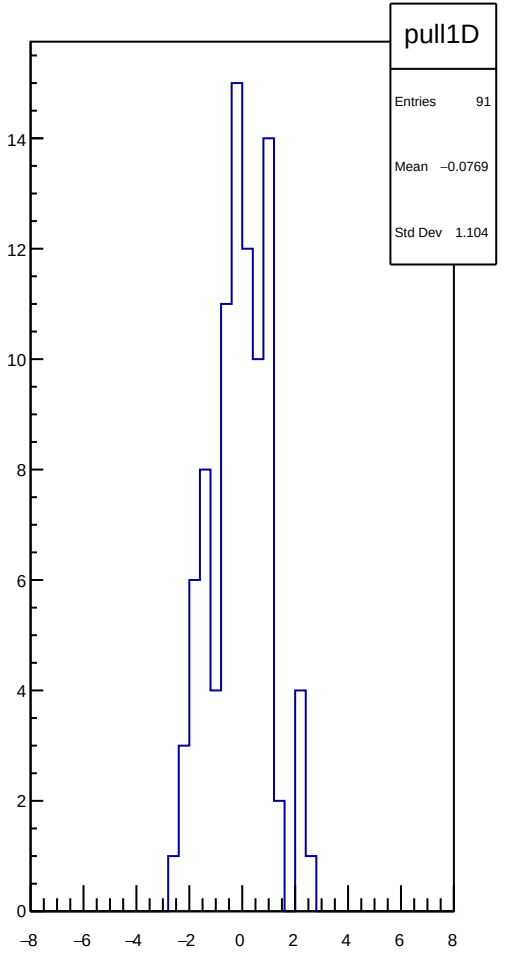

diff_bpm0l01Y_rms vs run
χ² / ndf 1.168e+04 / 90
p0 1766 ± 1.319
2200
2100
2000
1900
1800
1700
1600
1500

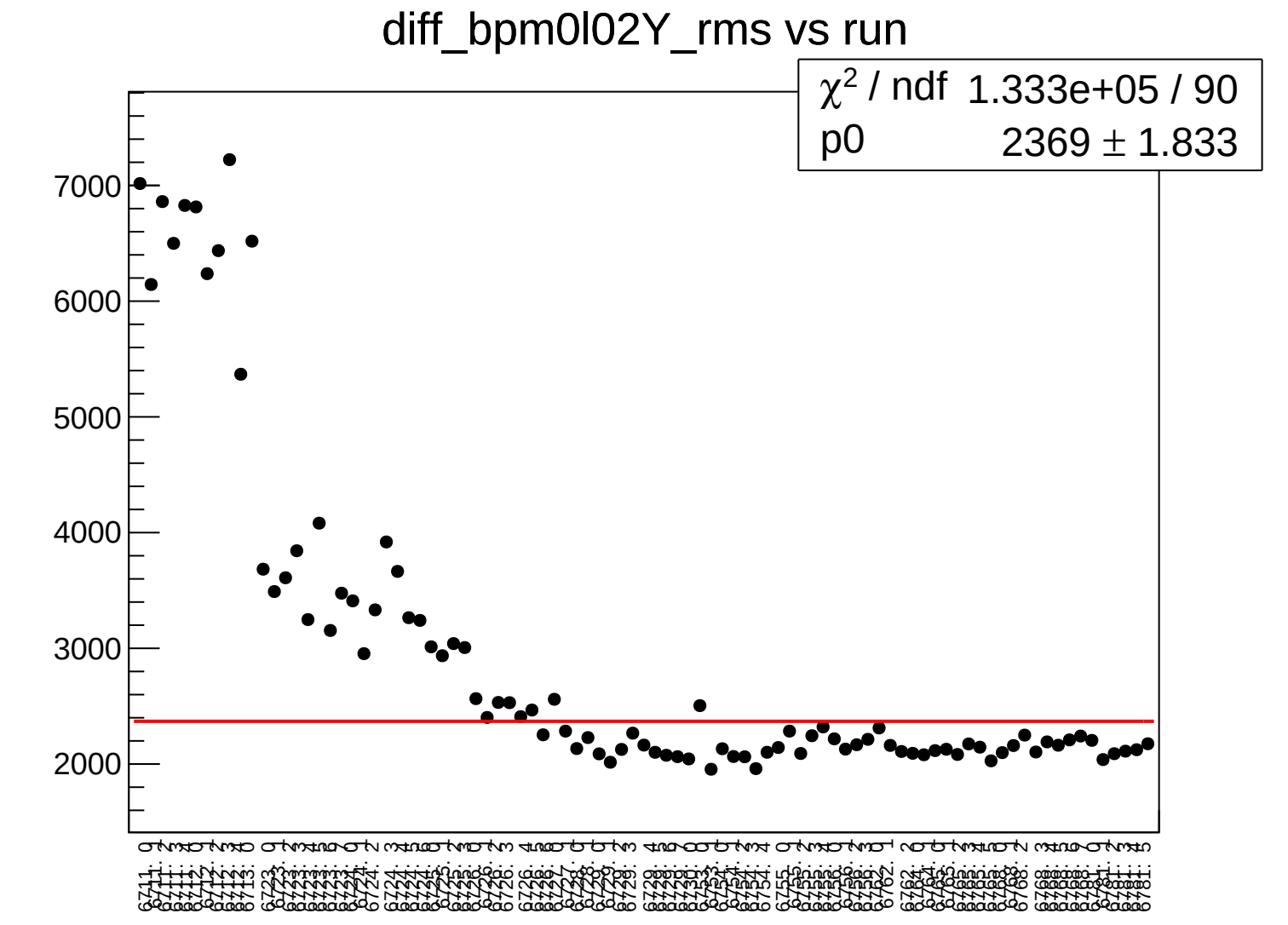

diff_bpm0l02X_mean vs run
χ² / ndf 107.3 / 90
p0 −30.63 ± 10.64
pull
Entries 91
Mean −449.3
Std Dev 0

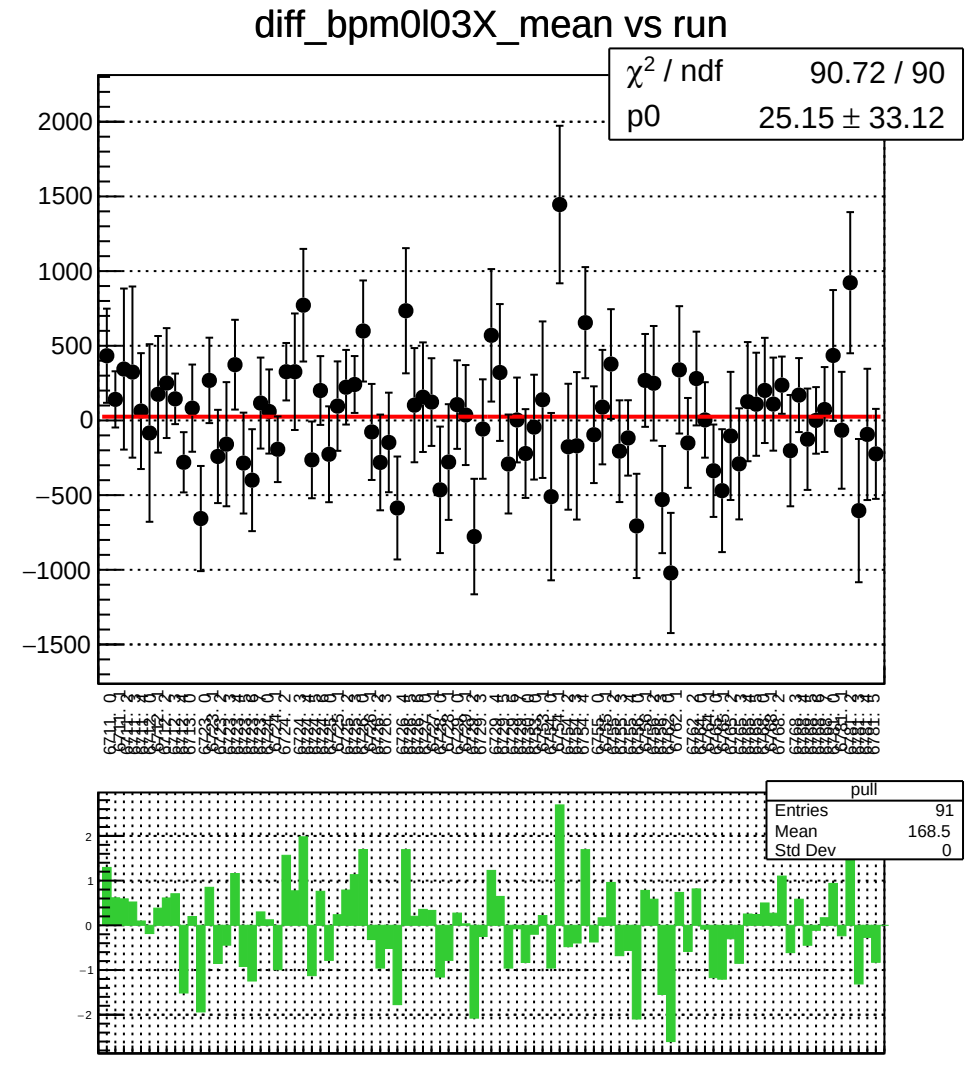

pull1D
Entries 91
Mean 0.01539
Std Dev 1.086

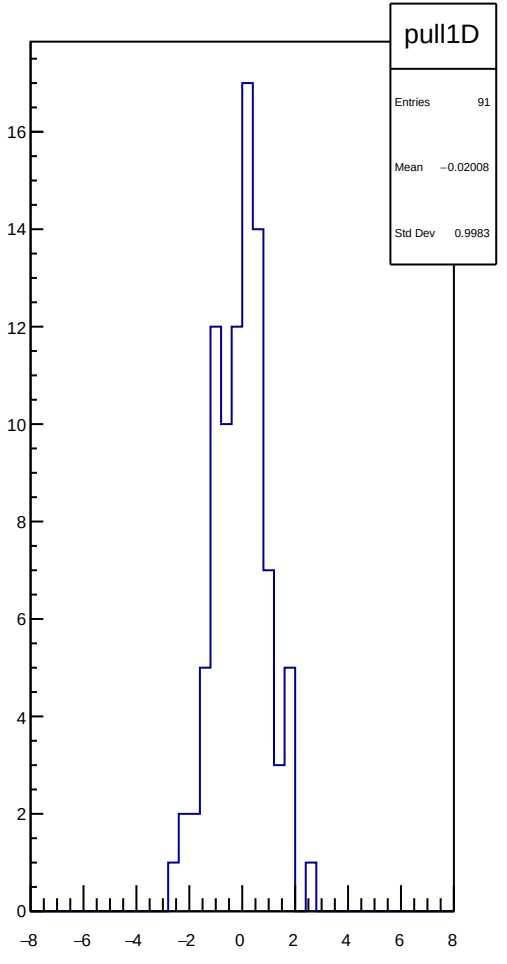

diff_bpm0l02X_rms vs run
χ² / ndf 696 / 90
p0 1.01e+04 ± 7.521
10600
10400
10200
10000
9800
9600

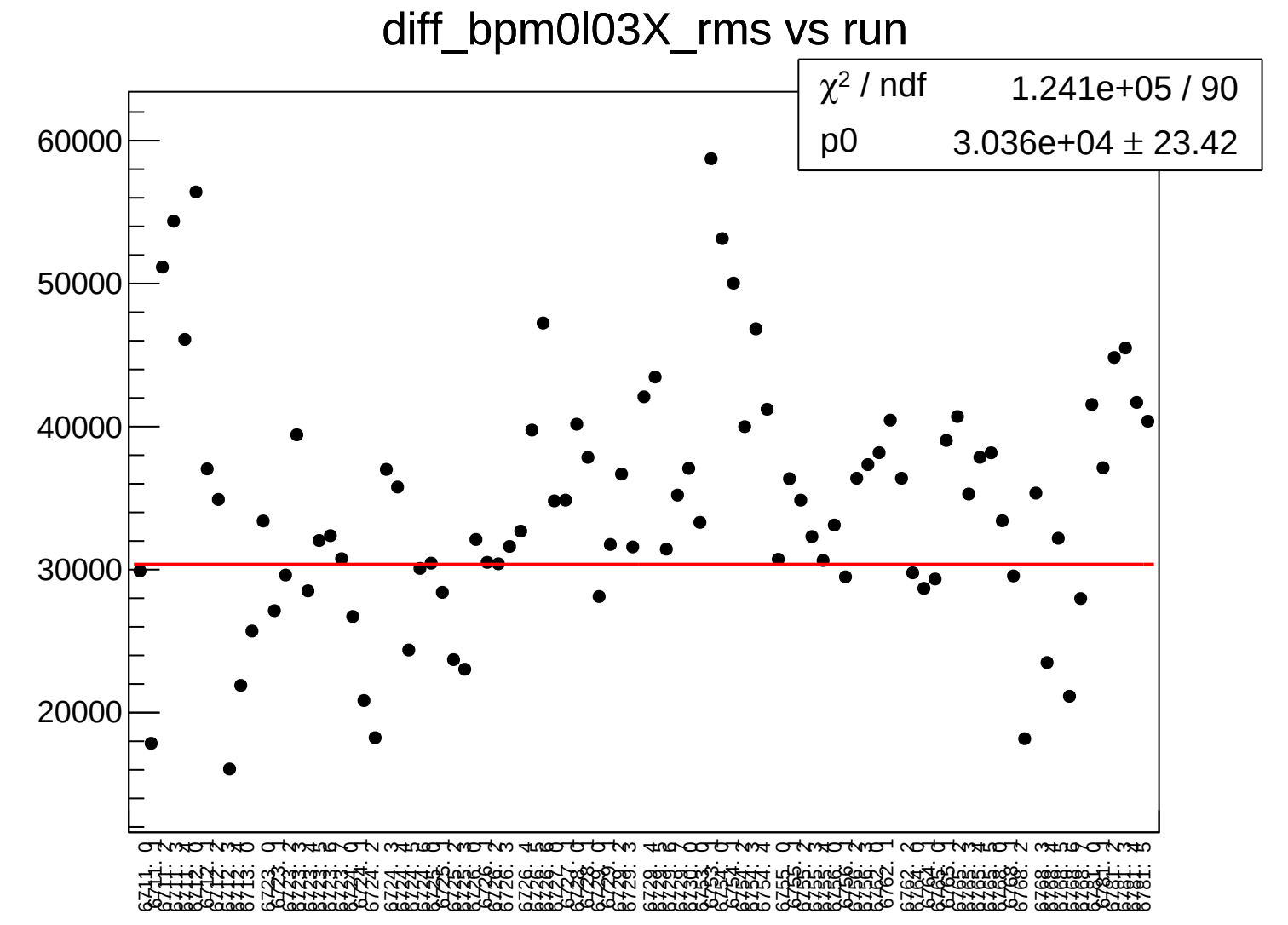

diff_bpm0l02Y_mean vs run
χ² / ndf 111.5 / 90
p0 9.944 ± 2.592
pull
Entries 91
Mean −71.65
Std Dev 0

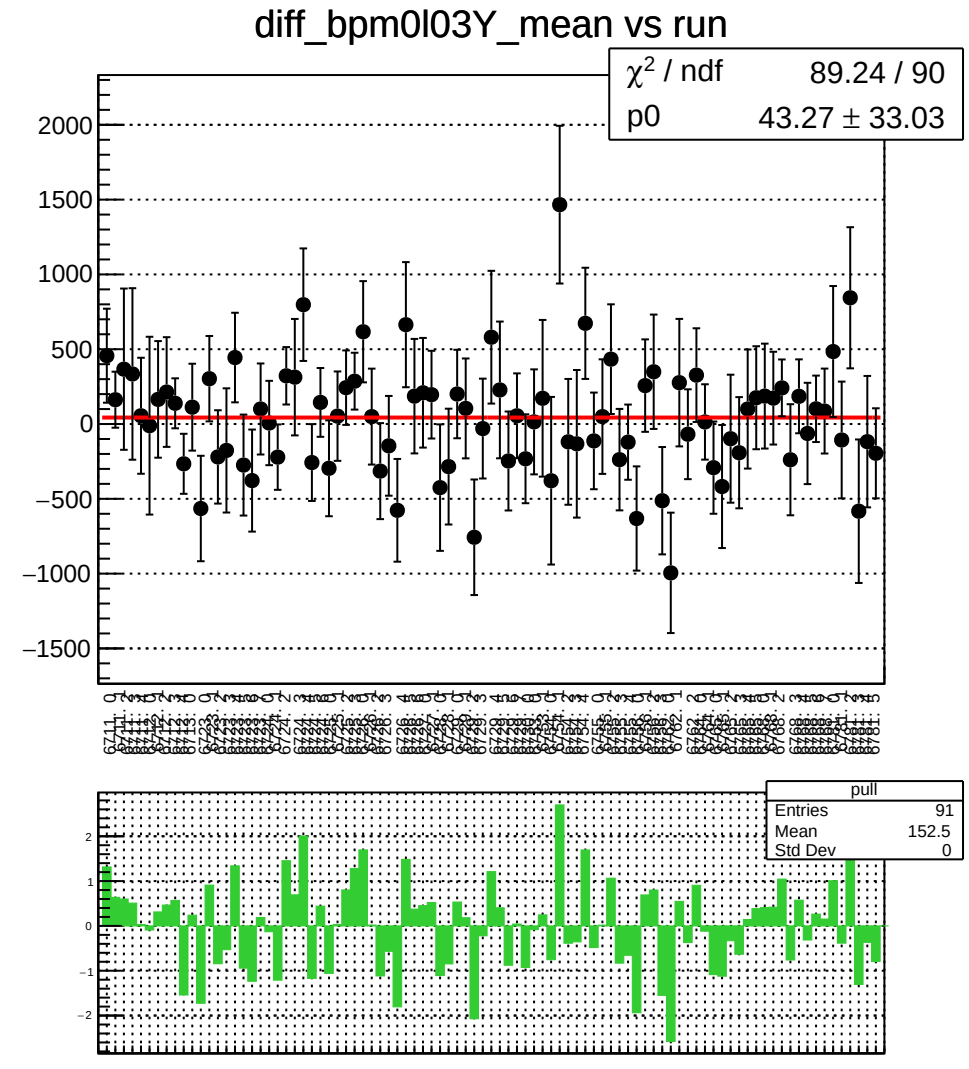

pull1D
Entries 91
Mean −0.0769
Std Dev 1.104

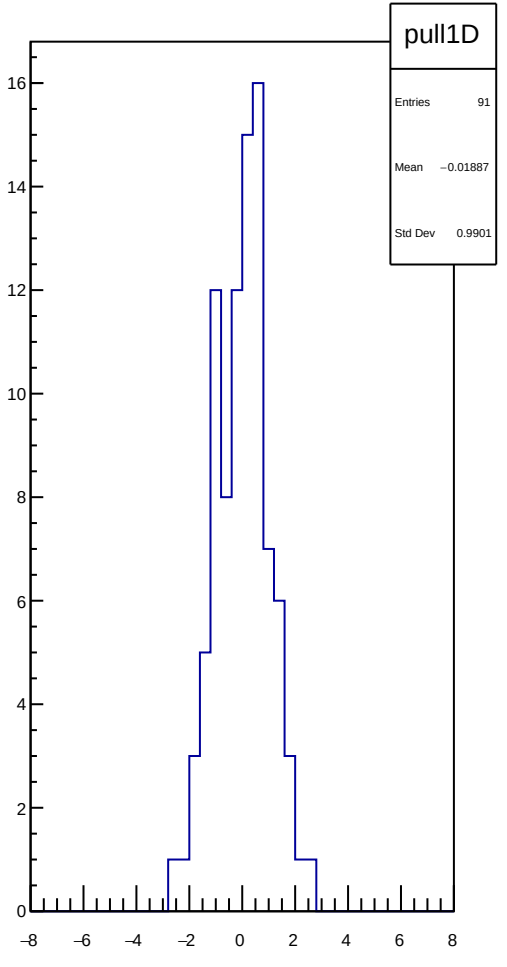

diff_bpm0l02Y_rms vs run
χ² / ndf 1.333e+05 / 90
p0 2369 ± 1.833
7000
6000
5000
4000
3000
2000

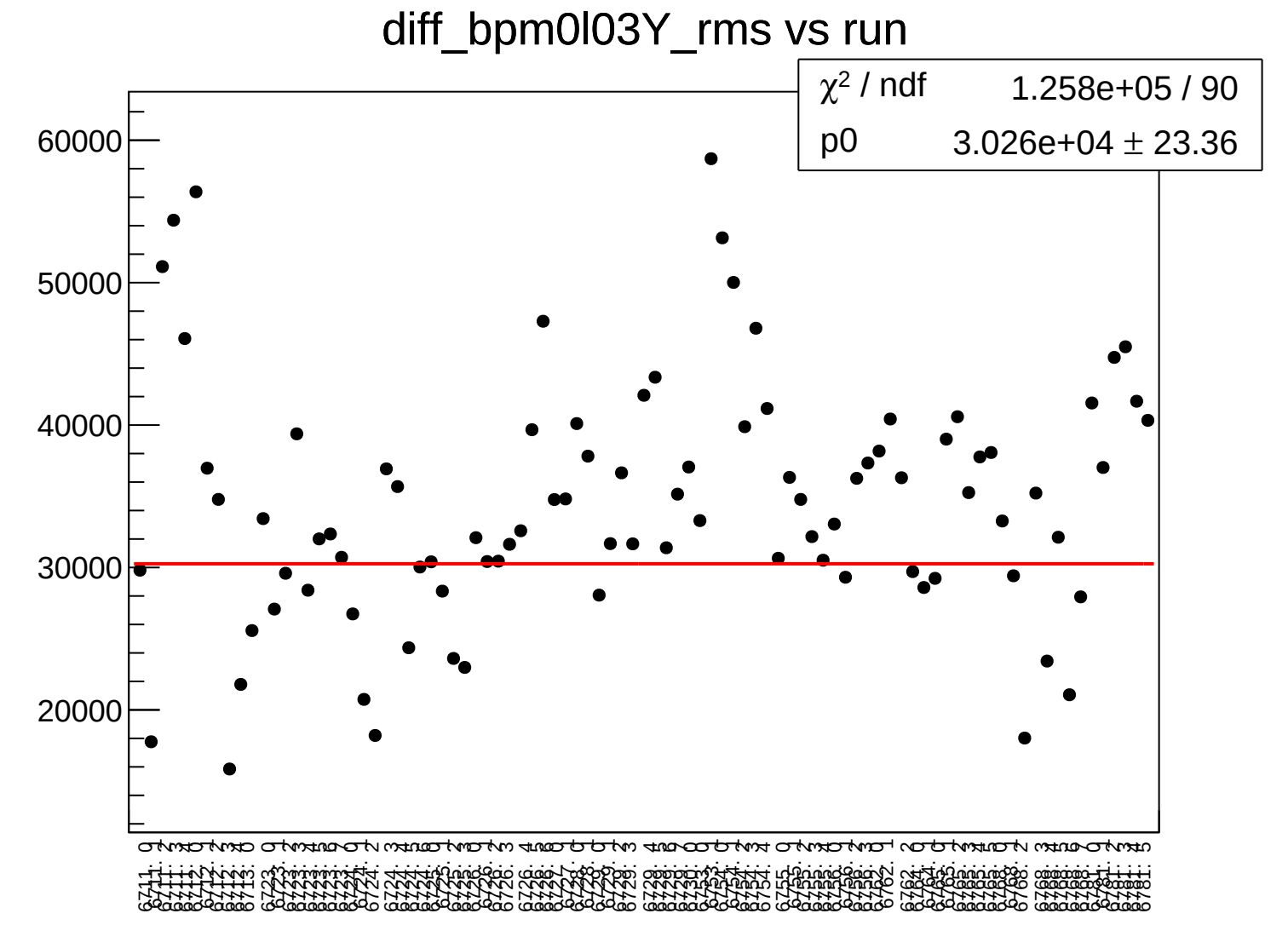

diff_bpm0l03X_mean vs run
χ² / ndf 90.72 / 90
p0 25.15 ± 33.12
pull
Entries 91
Mean 168.5
Std Dev 0

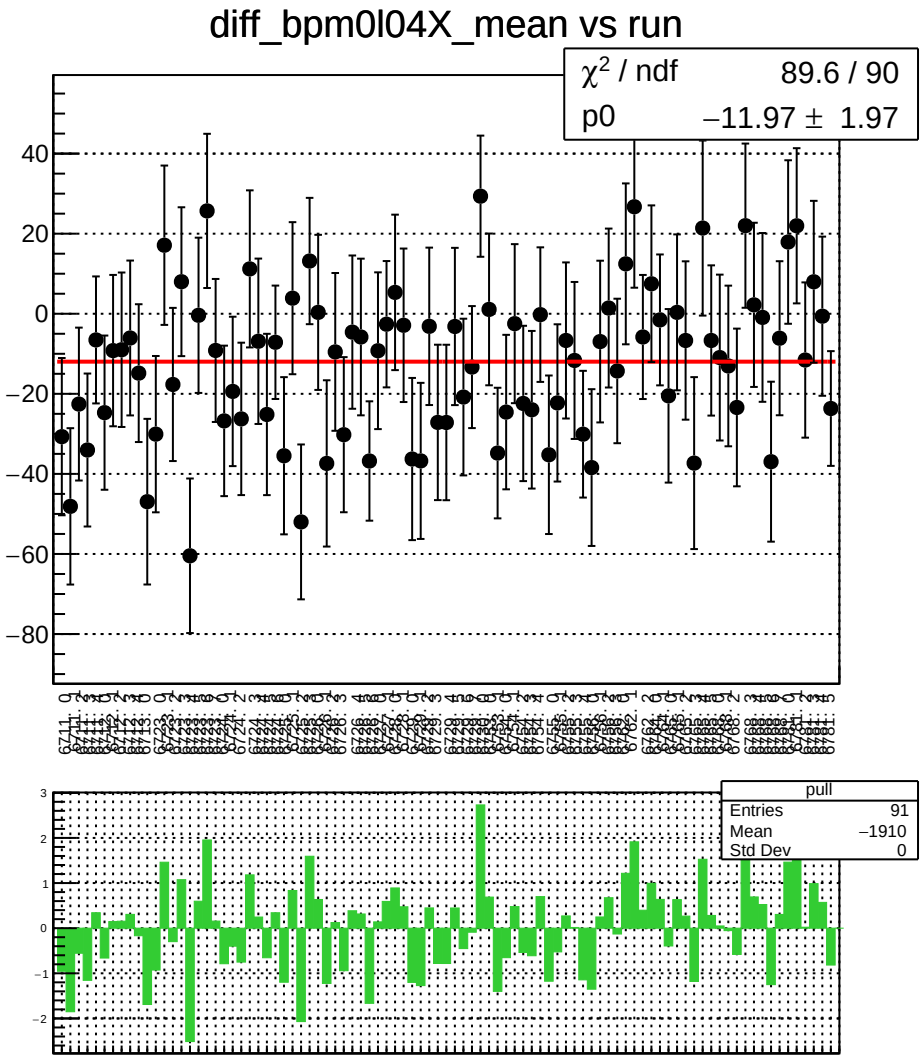

pull1D
Entries 91
Mean −0.02008
Std Dev 0.9983

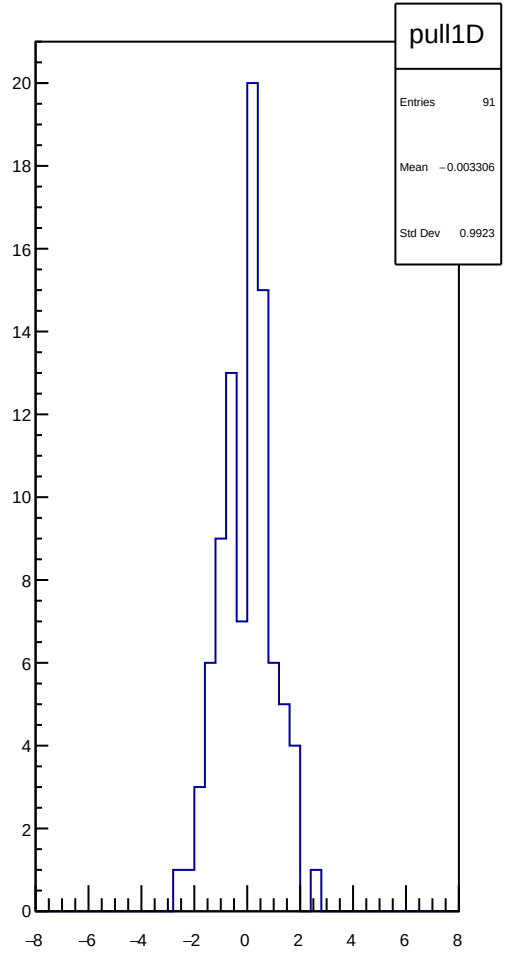

diff_bpm0l03X_rms vs run
χ² / ndf 1.241e+05 / 90
p0 3.036e+04 ± 23.42
60000
50000
40000
30000
20000

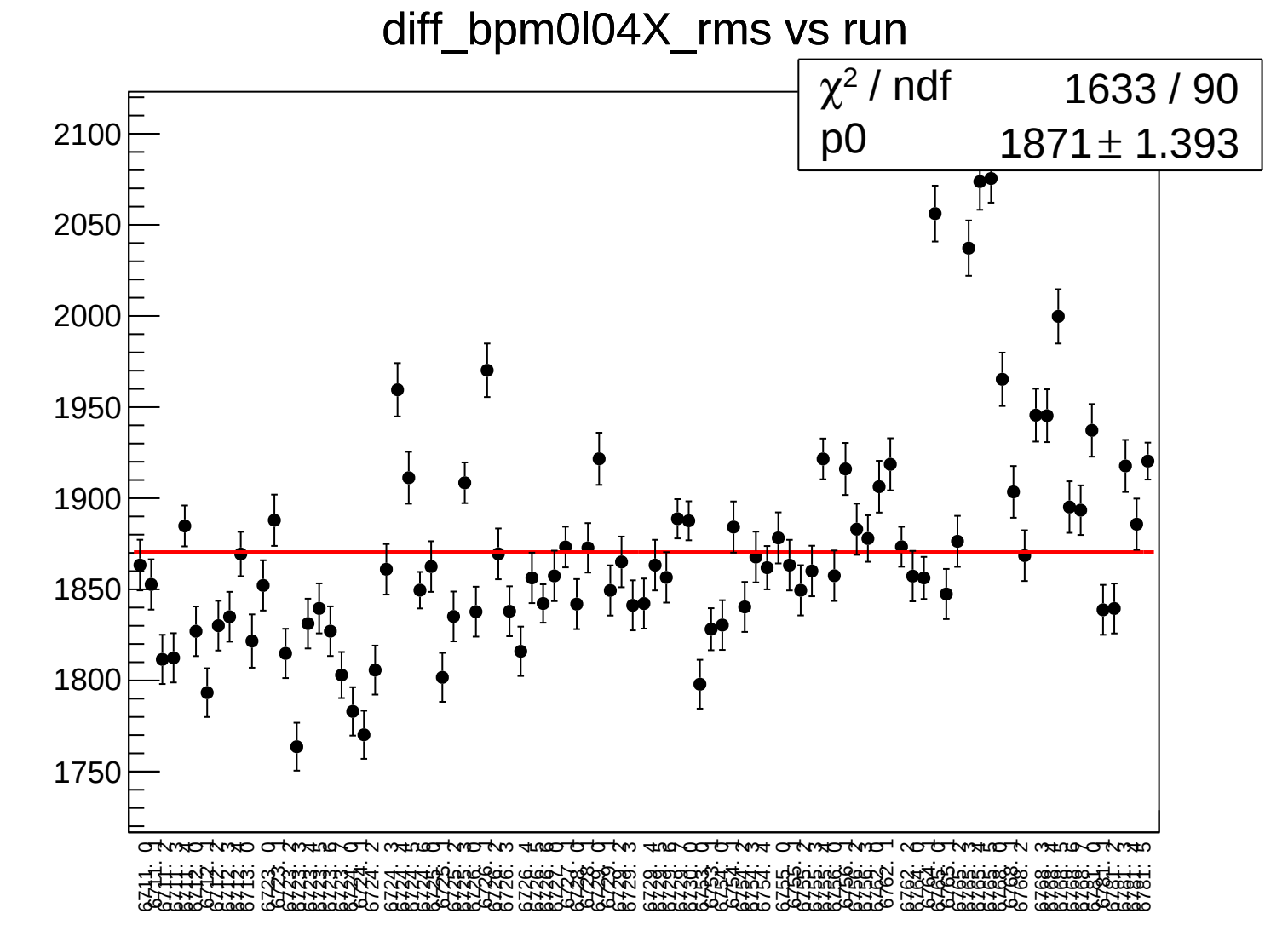

diff_bpm0l03Y_mean vs run
χ^2 / ndf 89.24 / 90
p0 43.27 ± 33.03
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean 152.5
Std Dev 0
2
1
0
−1
−2

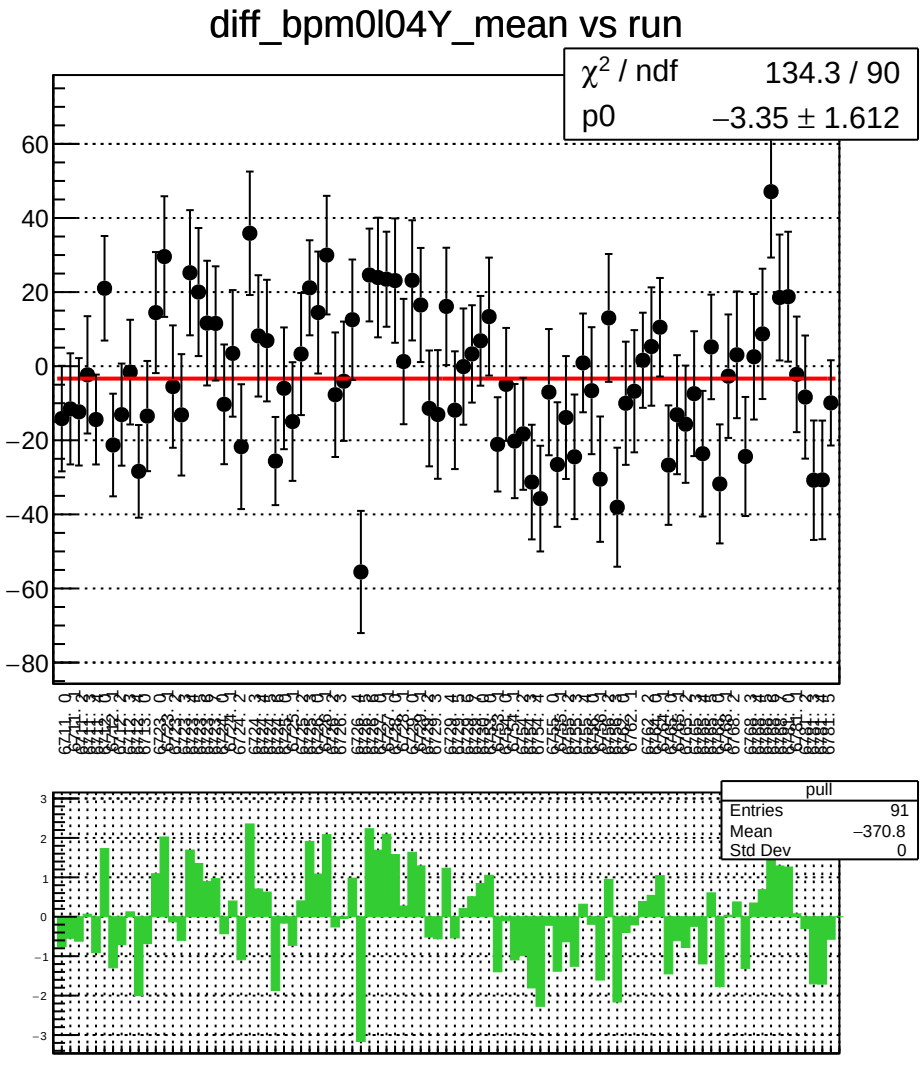

pull1D
Entries 91
Mean −0.01887
Std Dev 0.9901
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

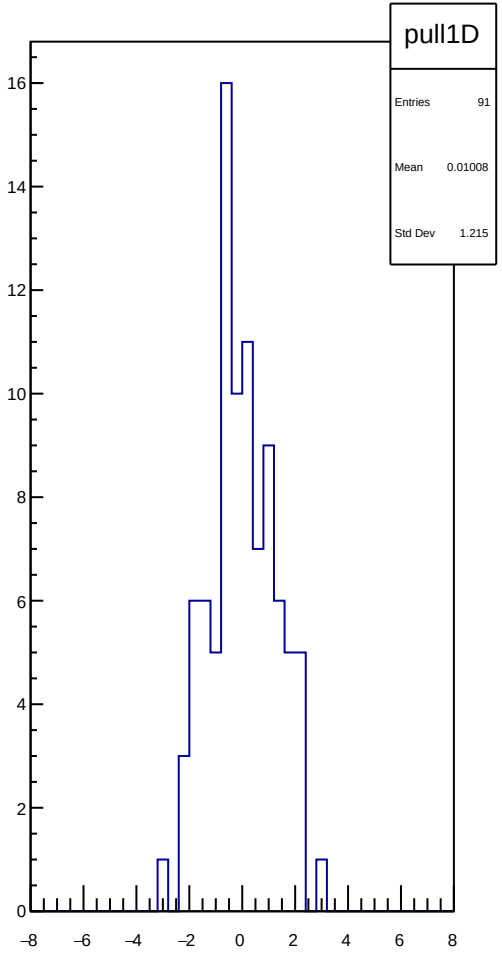

diff_bpm0l03Y_rms vs run
χ² / ndf 1.258e+05 / 90
p0 3.026e+04 ± 23.36
60000
50000
40000
30000
20000

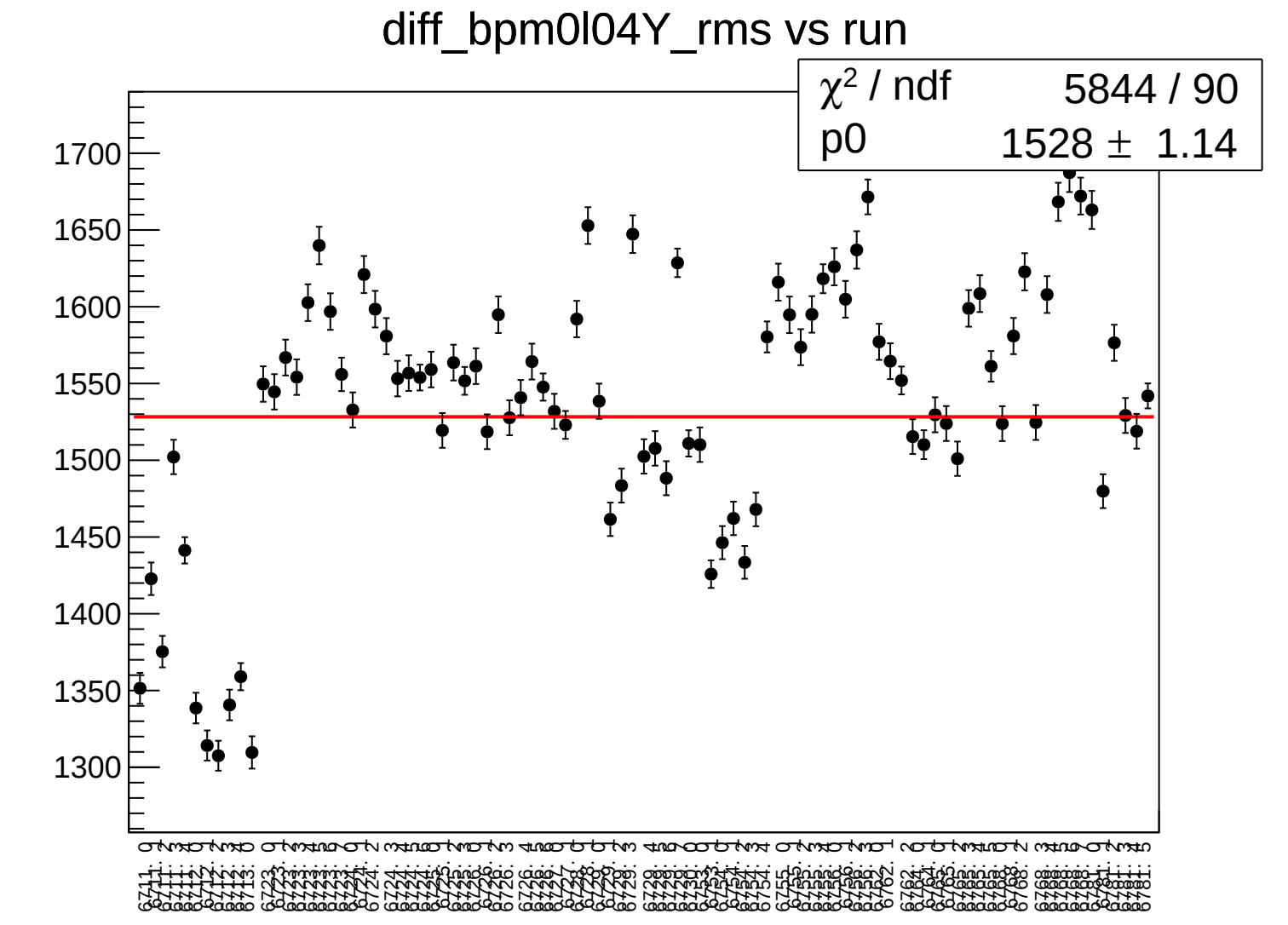

diff_bpm0l04X_mean vs run
χ² / ndf 89.6 / 90
p0 −11.97 ± 1.97
pull
Entries 91
Mean −1910
Std Dev 0

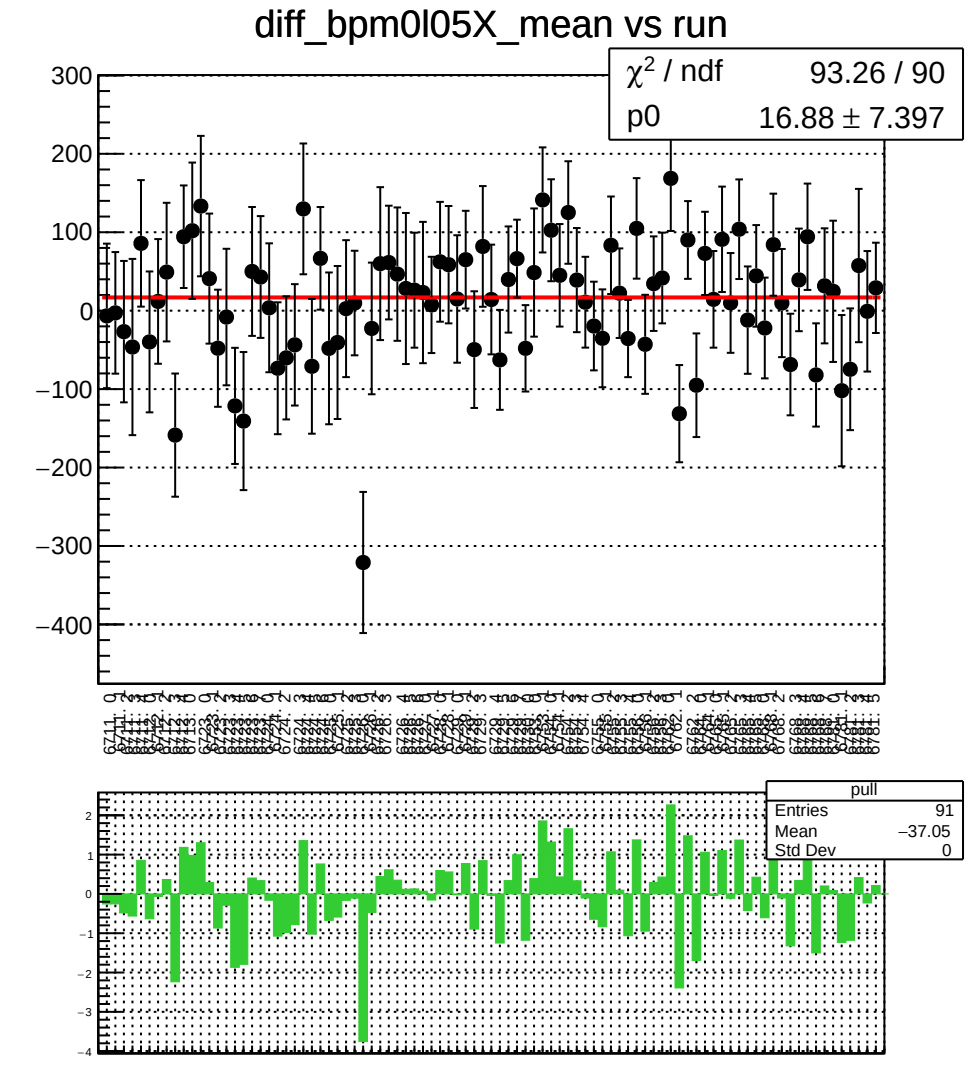

pull1D
Entries 91
Mean −0.003306
Std Dev 0.9923

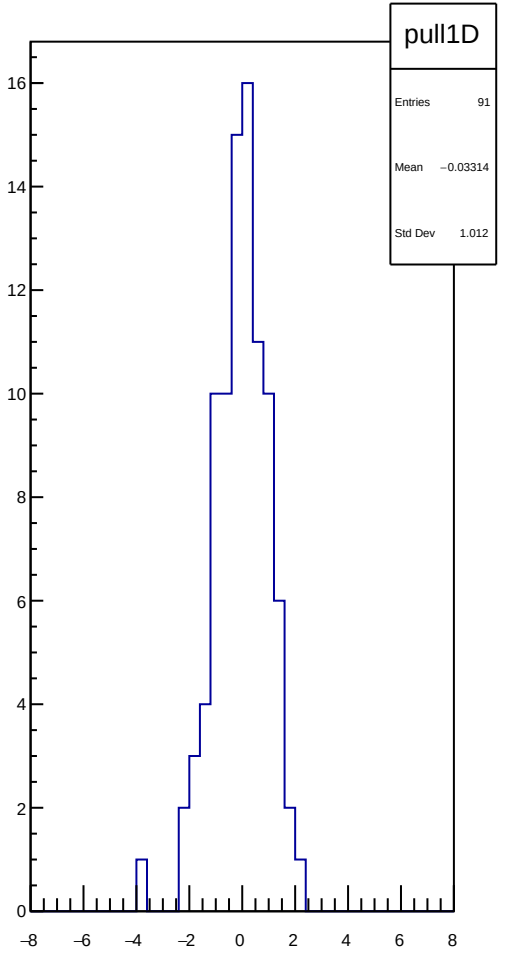

diff_bpm0l04X_rms vs run
χ² / ndf 1633 / 90
p0 1871 ± 1.393
2100
2050
2000
1950
1900
1850
1800
1750

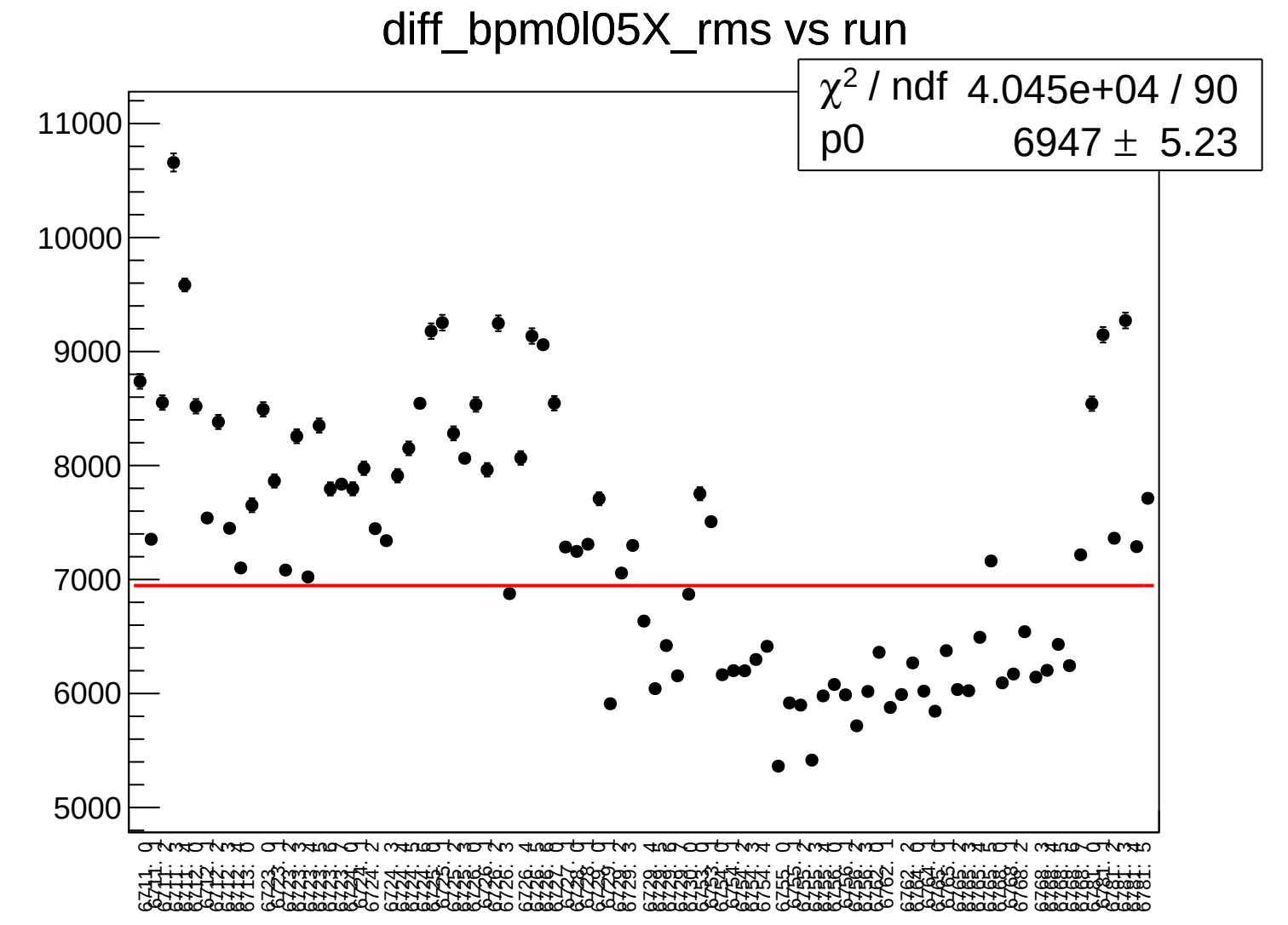

diff_bpm0l04Y_mean vs run
χ² / ndf 134.3 / 90
p0 −3.35 ± 1.612
pull
Entries 91
Mean −370.8
Std Dev 0

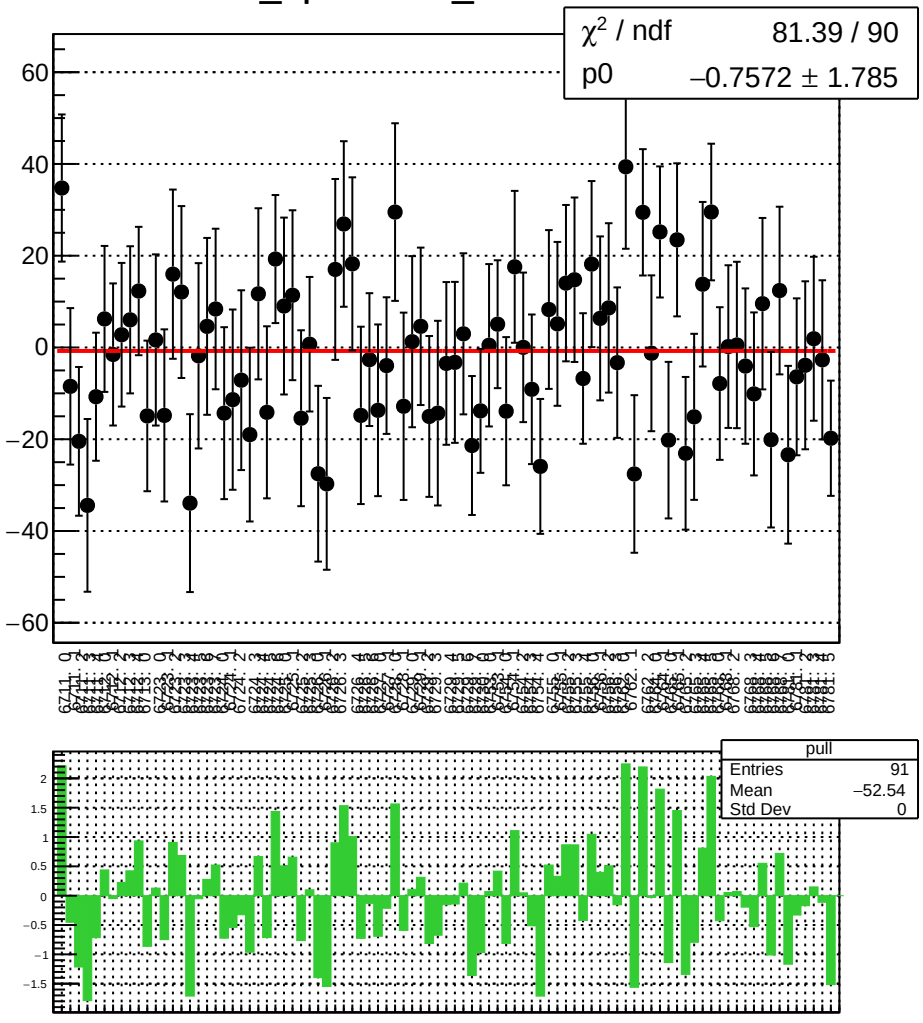

pull1D
Entries 91
Mean 0.01008
Std Dev 1.215

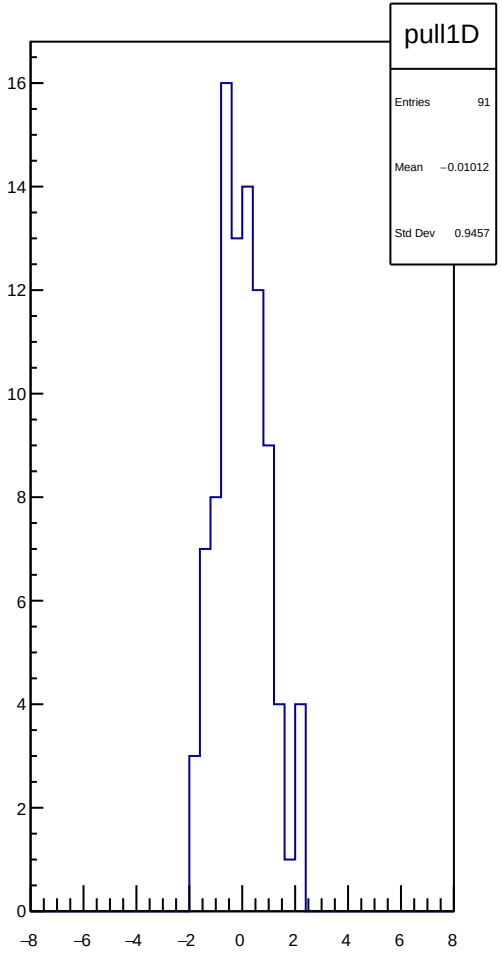

diff_bpm0l04Y_rms vs run
χ² / ndf 5844 / 90
p0 1528 ± 1.14
1700
1650
1600
1550
1500
1450
1400
1350
1300

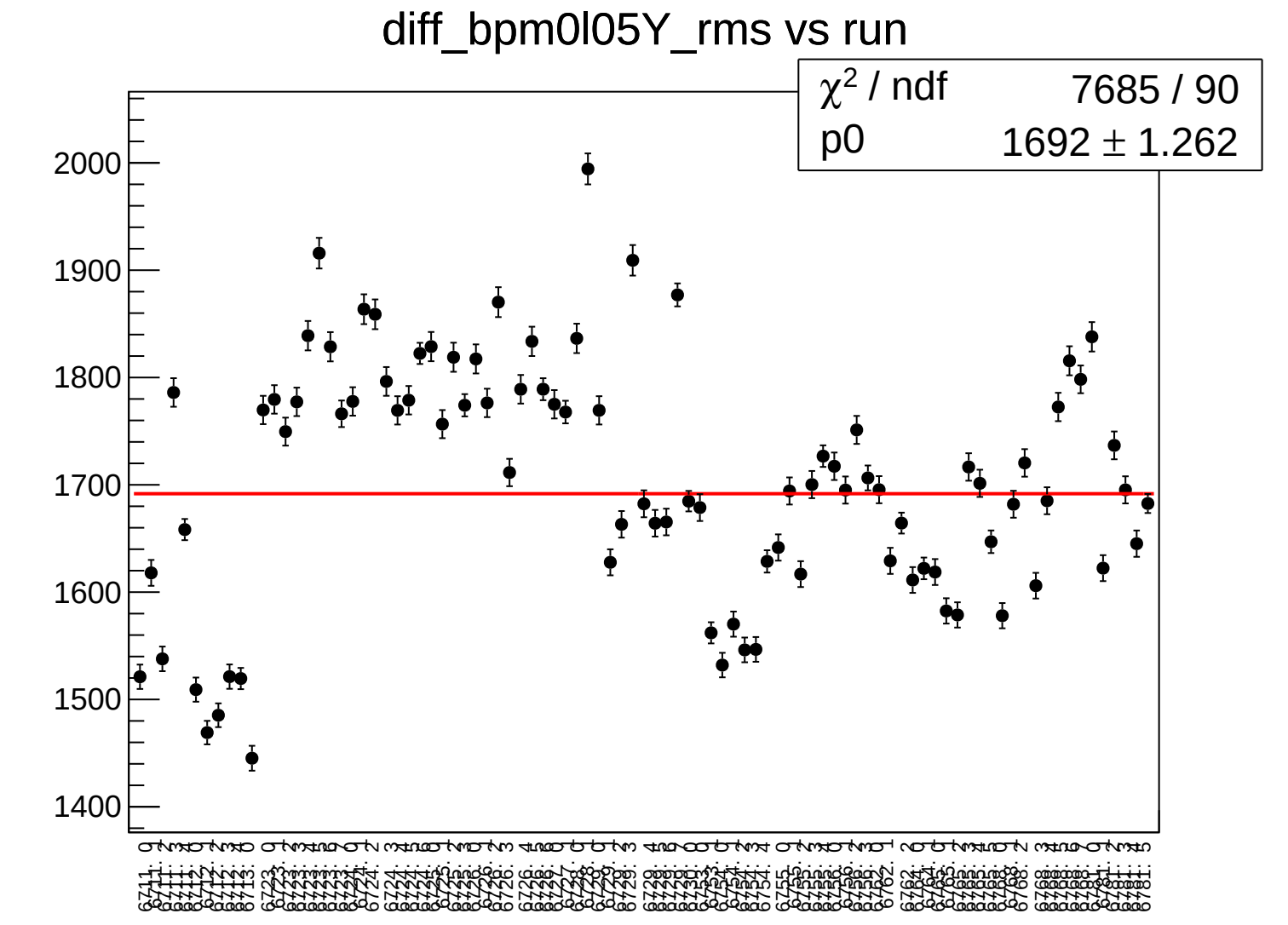

diff_bpm0l05X_mean vs run
χ² / ndf 93.26 / 90
p0 16.88 ± 7.397
pull
Entries 91
Mean −37.05
Std Dev 0

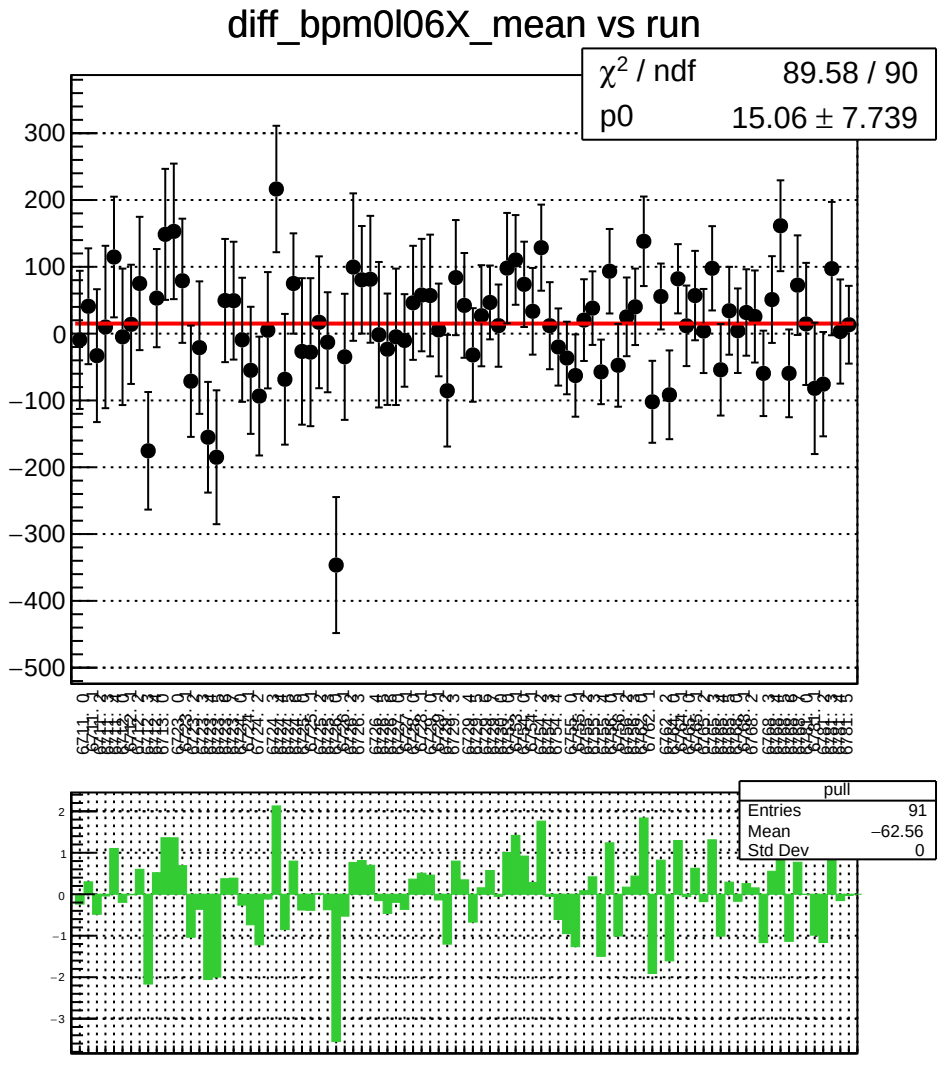

pull1D
Entries 91
Mean −0.03314
Std Dev 1.012

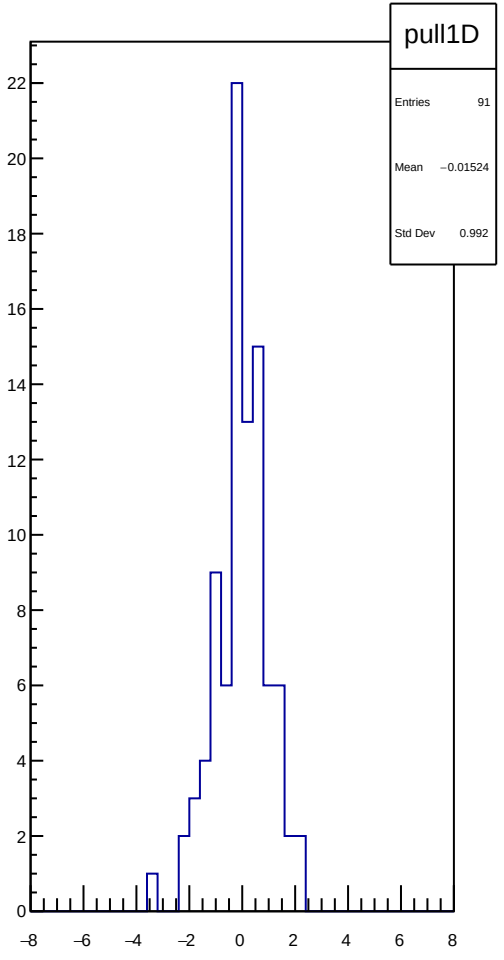

diff_bpm0l05X_rms vs run
χ^2 / ndf 4.045e+04 / 90
p0 6947 ± 5.23
11000
10000
9000
8000
7000
6000
5000

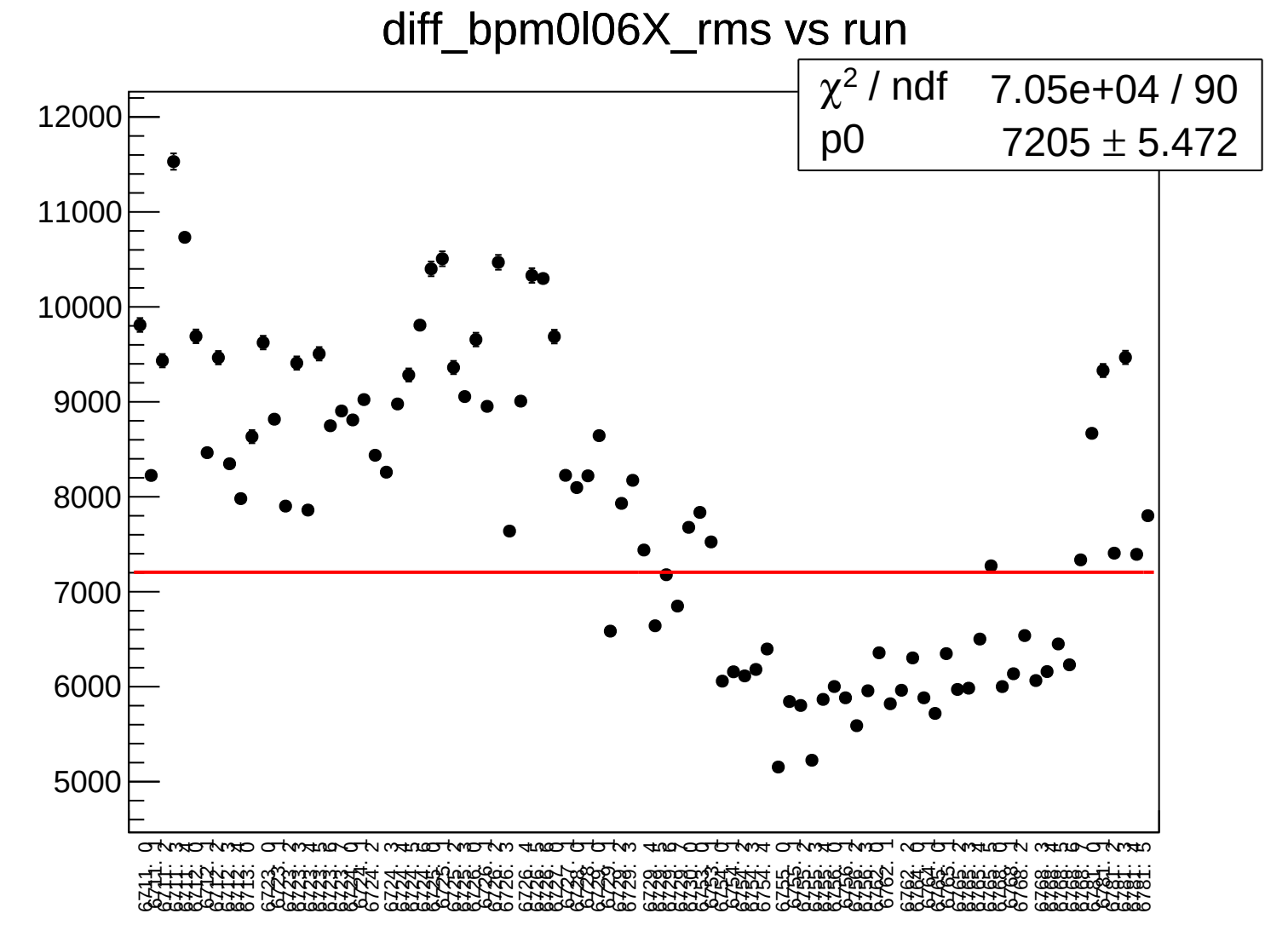

diff_bpm0l05Y_mean vs run
χ² / ndf 81.39 / 90
p0 −0.7572 ± 1.785
pull
Entries 91
Mean −52.54
Std Dev 0

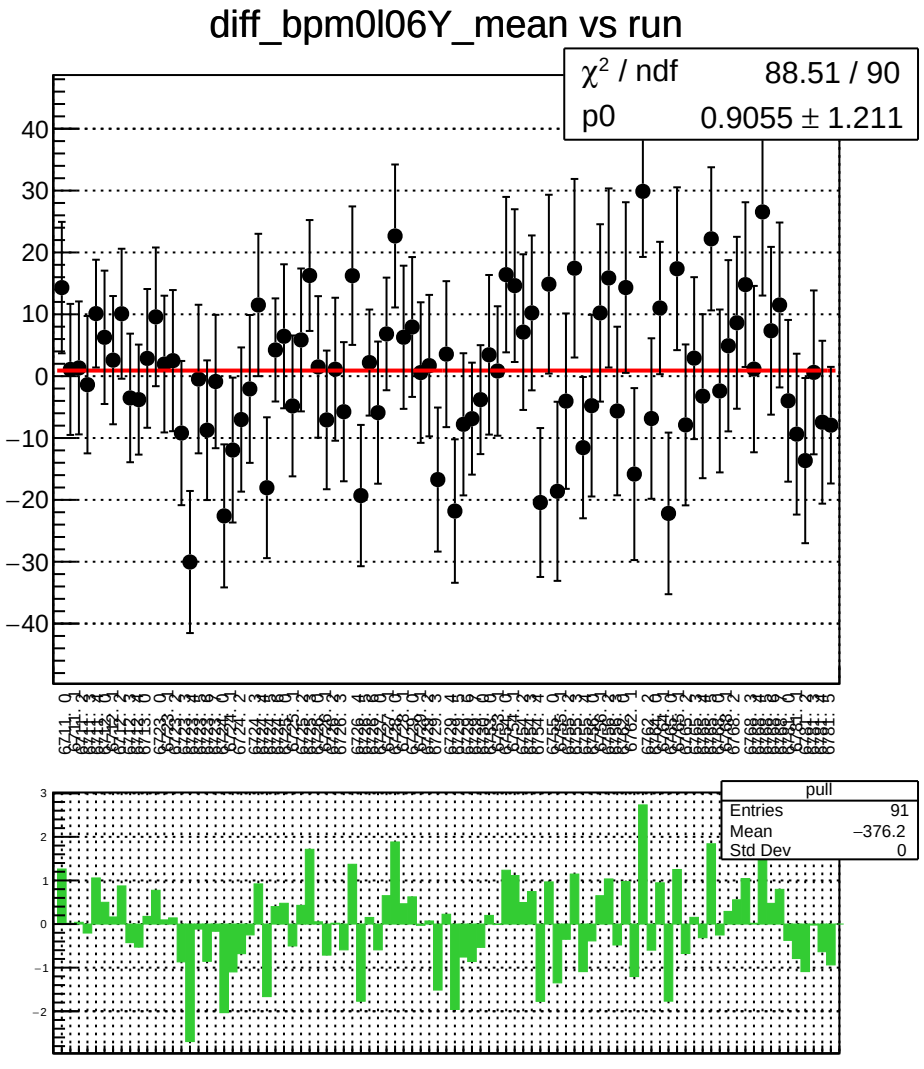

pull1D
Entries 91
Mean −0.01012
Std Dev 0.9457

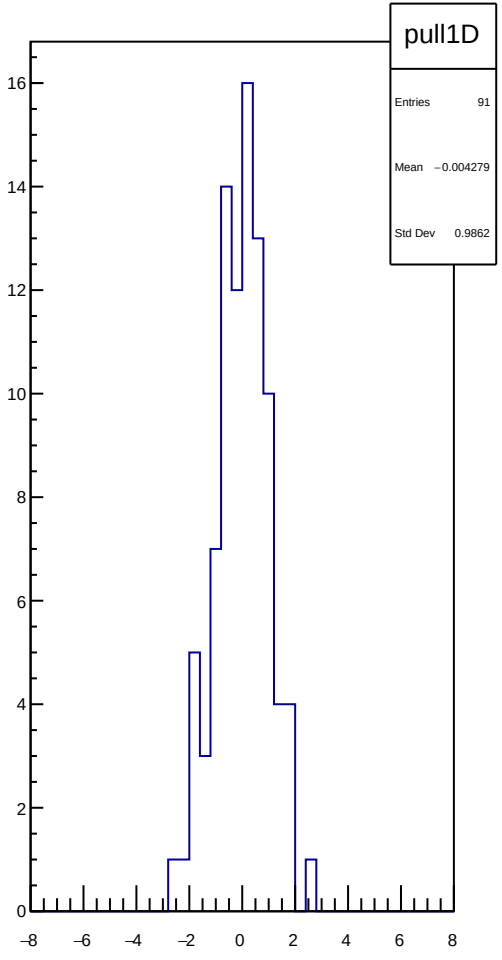

diff_bpm0l05Y_rms vs run
χ² / ndf 7685 / 90
p0 1692 ± 1.262
2000
1900
1800
1700
1600
1500
1400

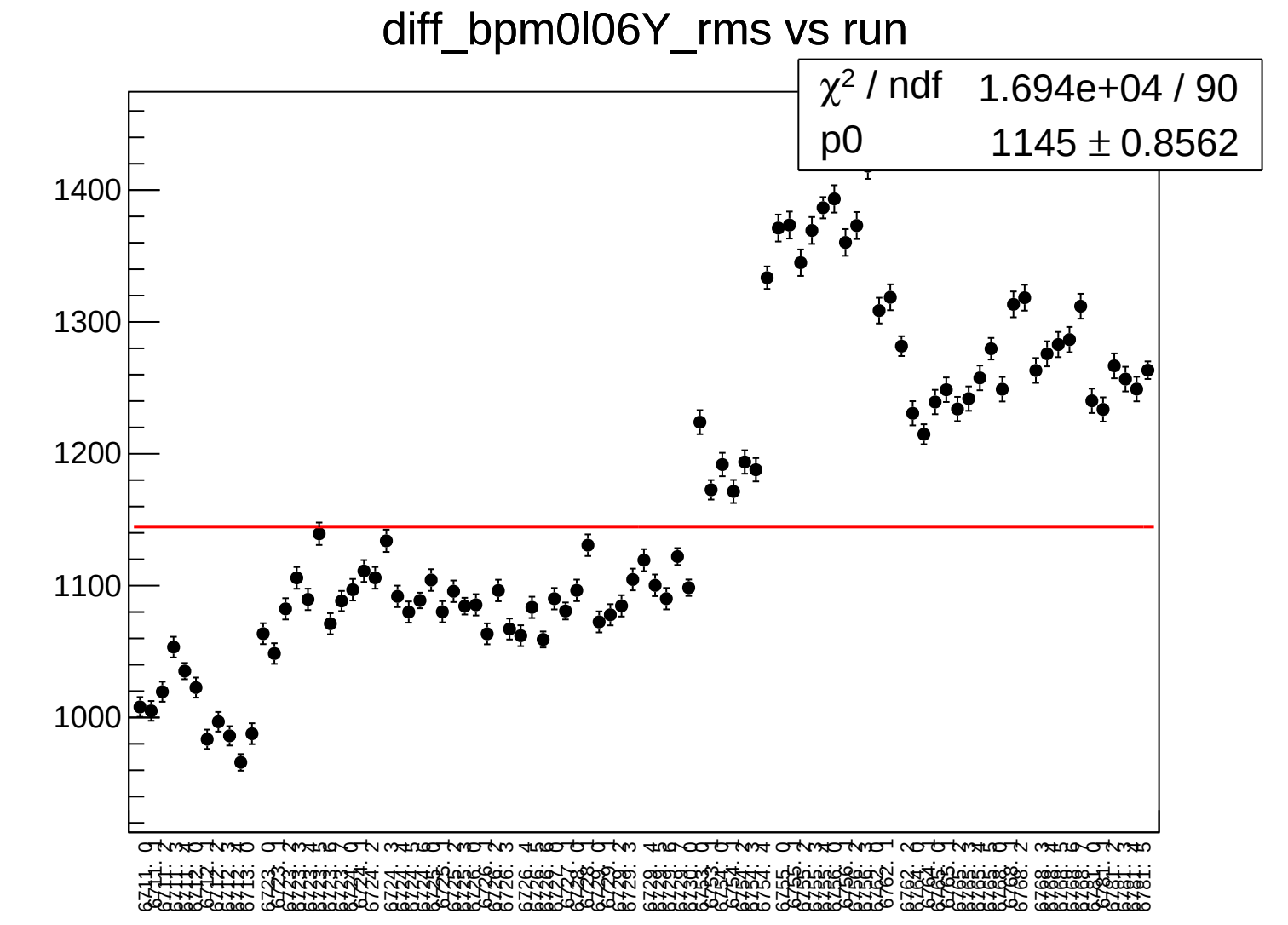

diff_bpm0l06X_mean vs run
χ² / ndf 89.58 / 90
p0 15.06 ± 7.739
pull
Entries 91
Mean −62.56
Std Dev 0

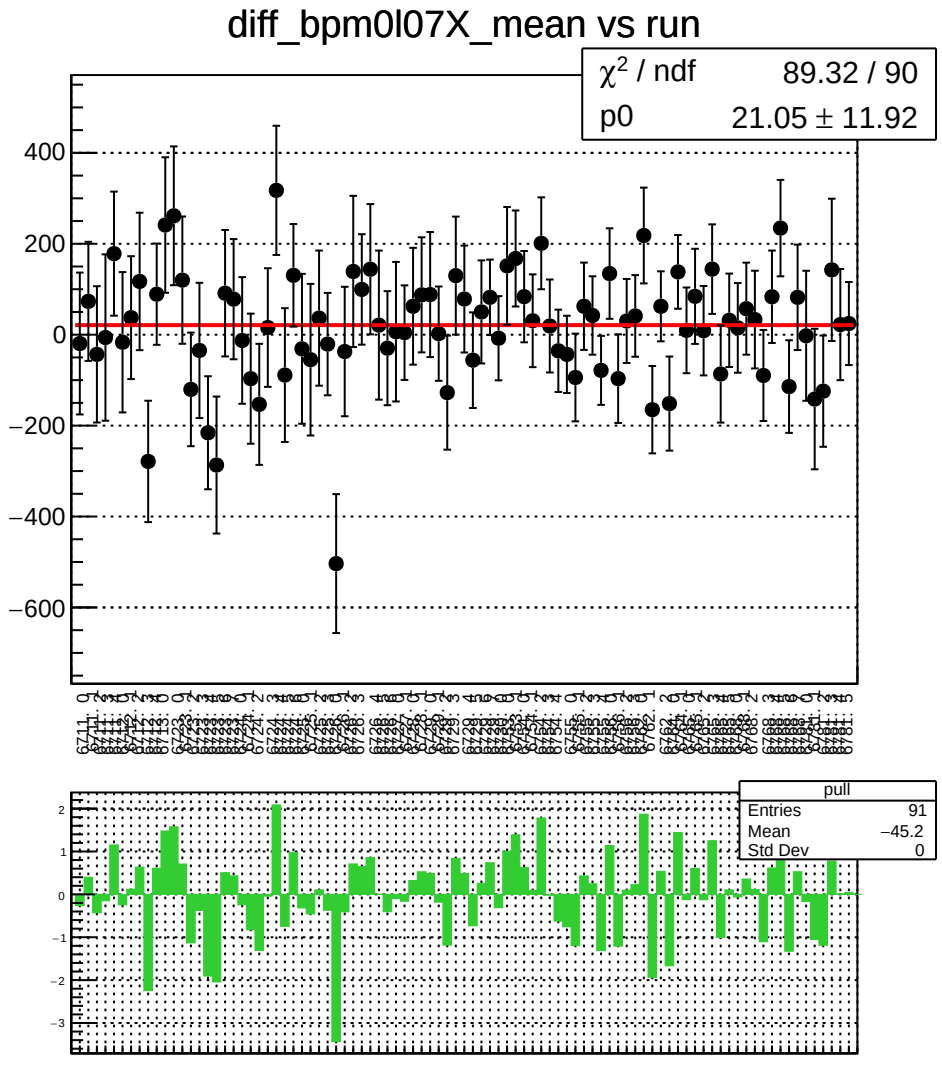

pull1D
Entries 91
Mean −0.01524
Std Dev 0.992

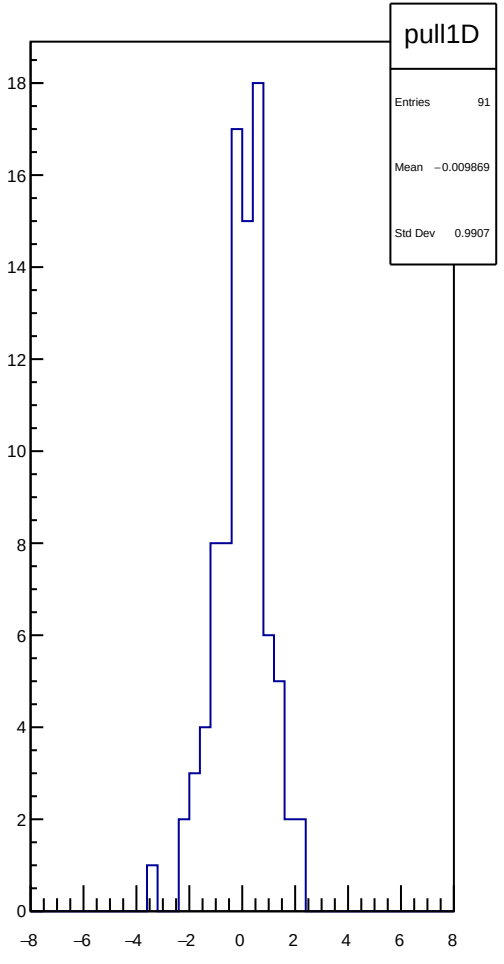

diff_bpm0l06X_rms vs run
χ^2 / ndf 7.05e+04 / 90
p0 7205 ± 5.472
12000
11000
10000
9000
8000
7000
6000
5000

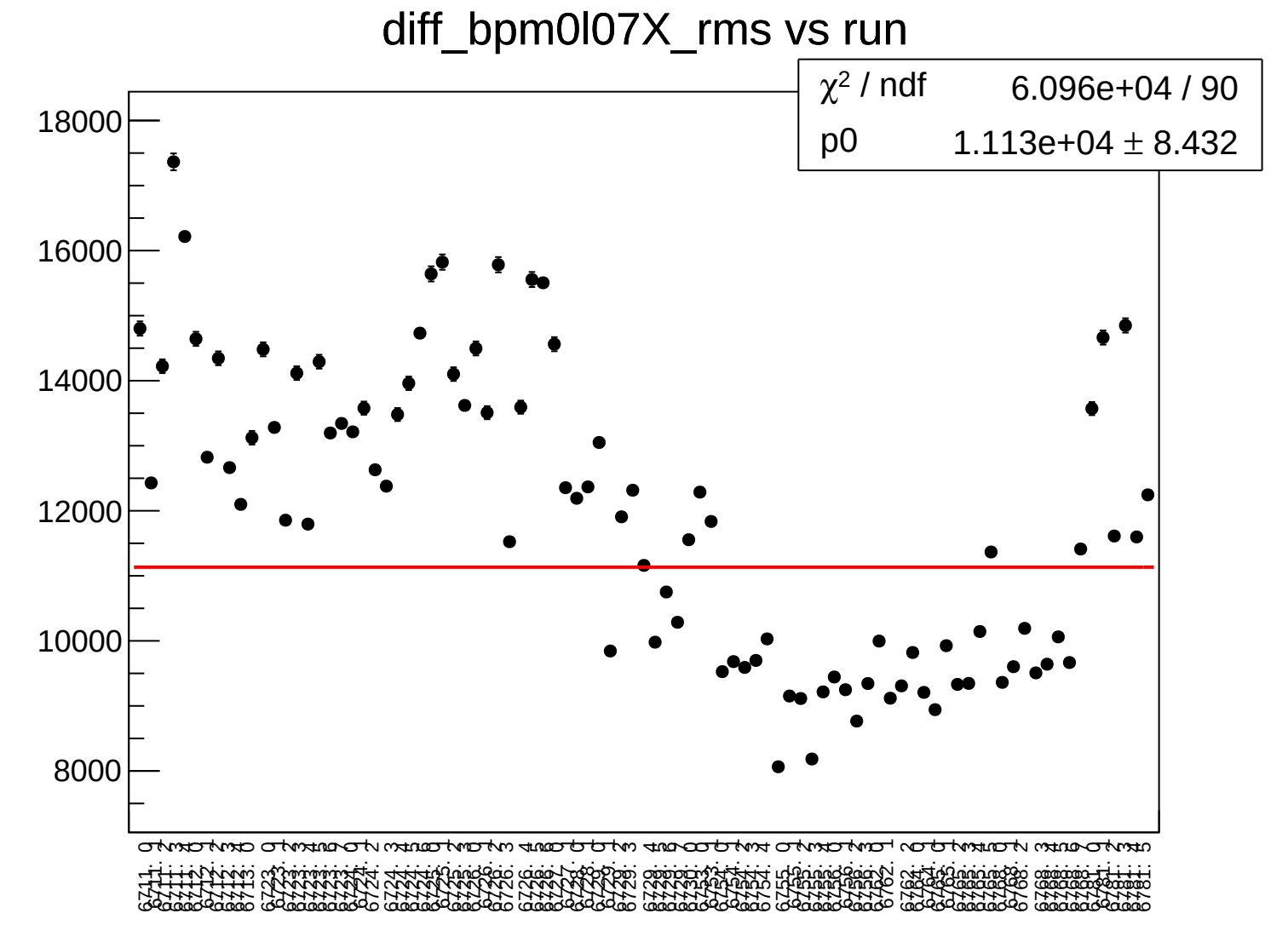

diff_bpm0l06Y_mean vs run
χ² / ndf 88.51 / 90
p0 0.9055 ± 1.211
pull
Entries 91
Mean −376.2
Std Dev 0

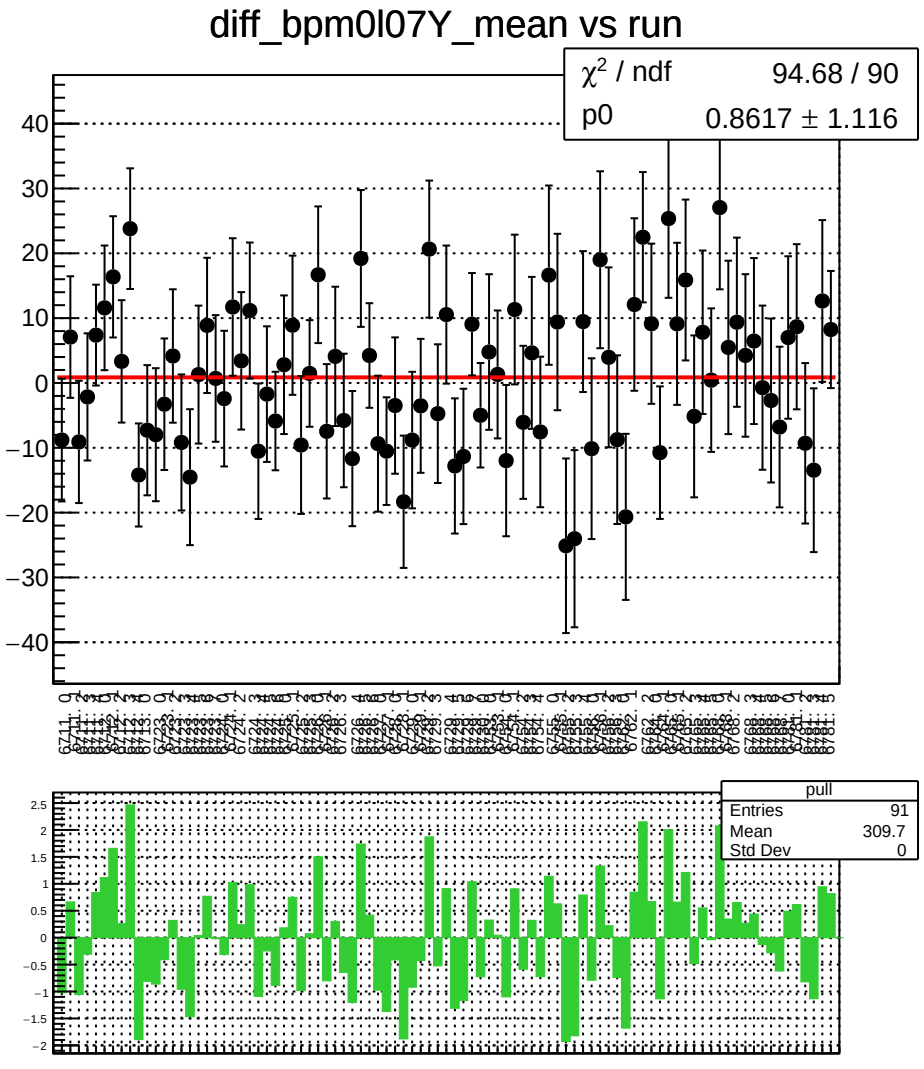

pull1D
Entries 91
Mean −0.004279
Std Dev 0.9862

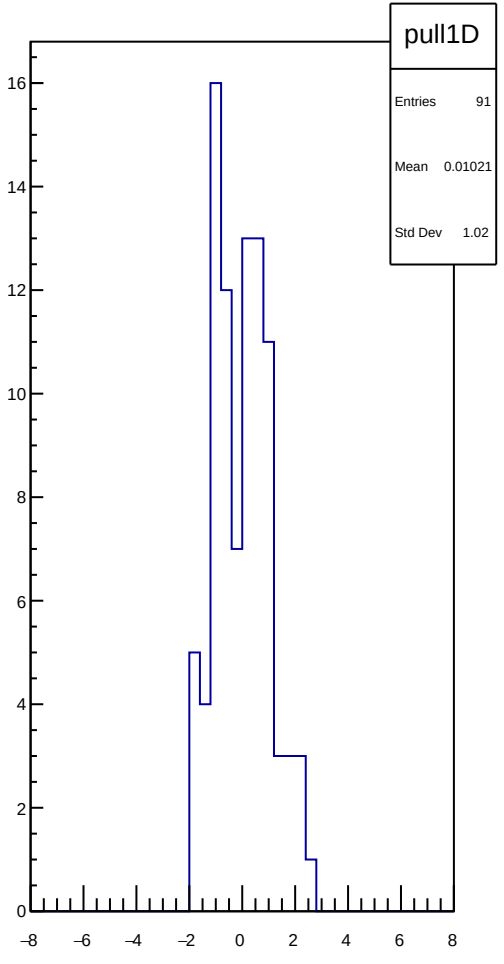

diff_bpm0l06Y_rms vs run
χ² / ndf 1.694e+04 / 90
p0 1145 ± 0.8562
1400
1300
1200
1100
1000

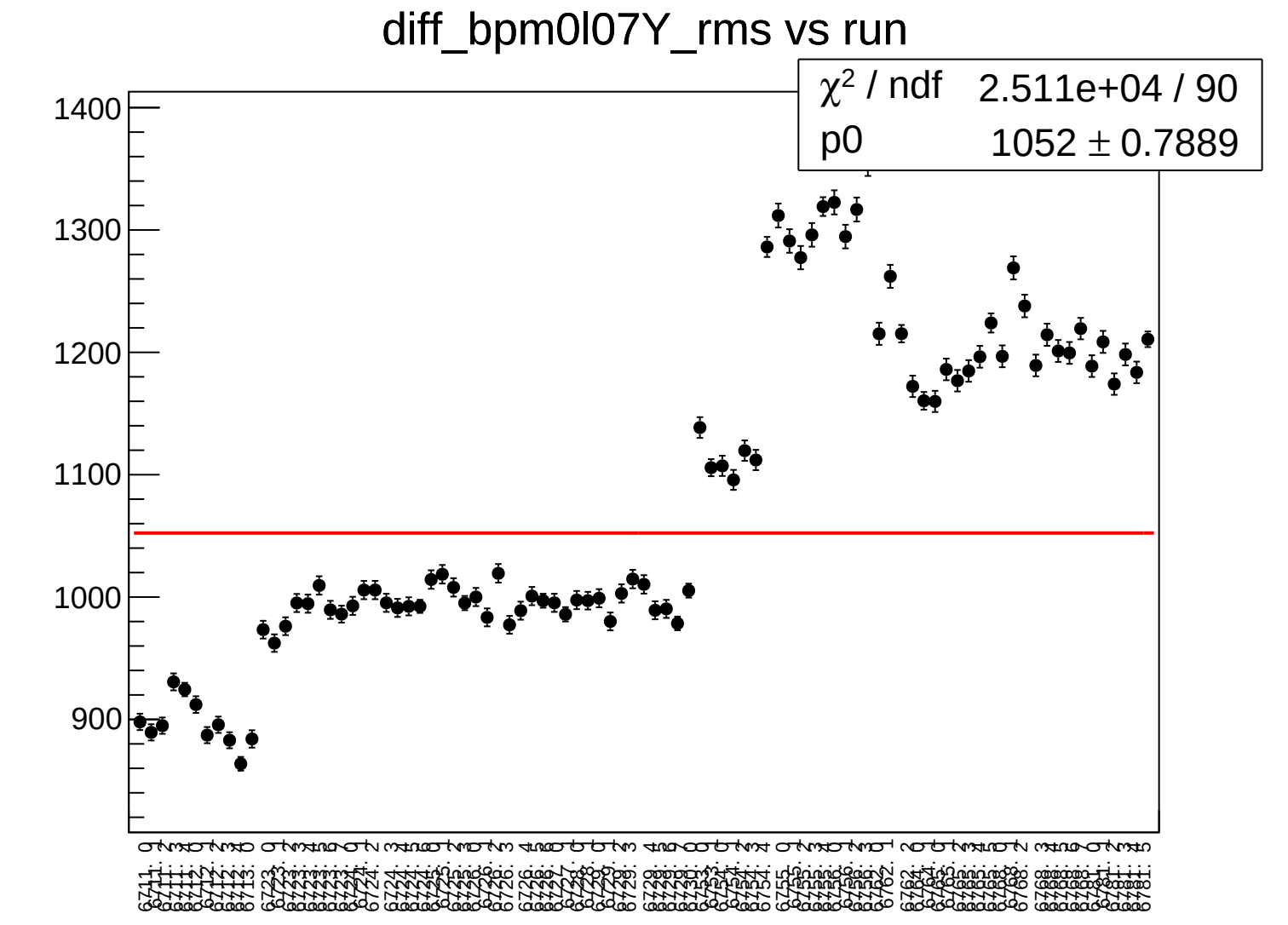

diff_bpm0l07X_mean vs run
χ² / ndf 89.32 / 90
p0 21.05 ± 11.92
pull
Entries 91
Mean −45.2
Std Dev 0

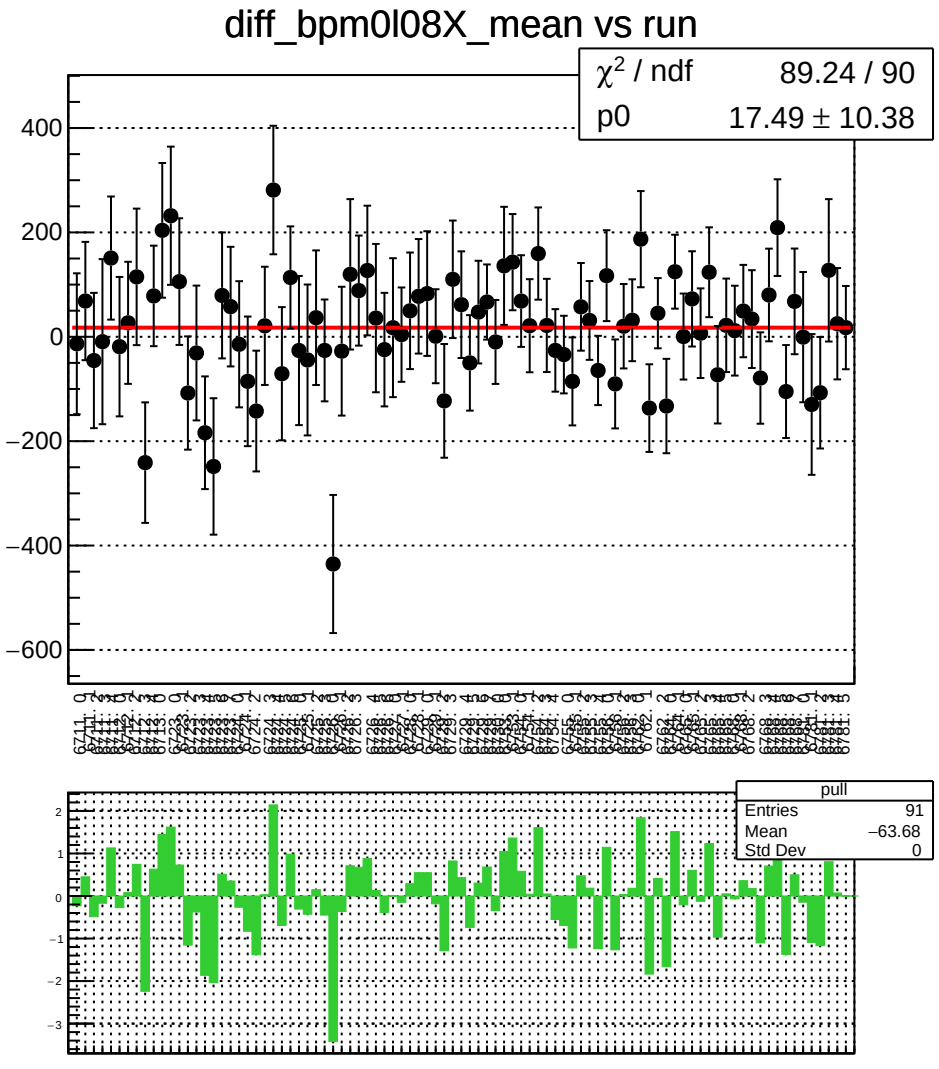

pull1D
Entries 91
Mean −0.009869
Std Dev 0.9907

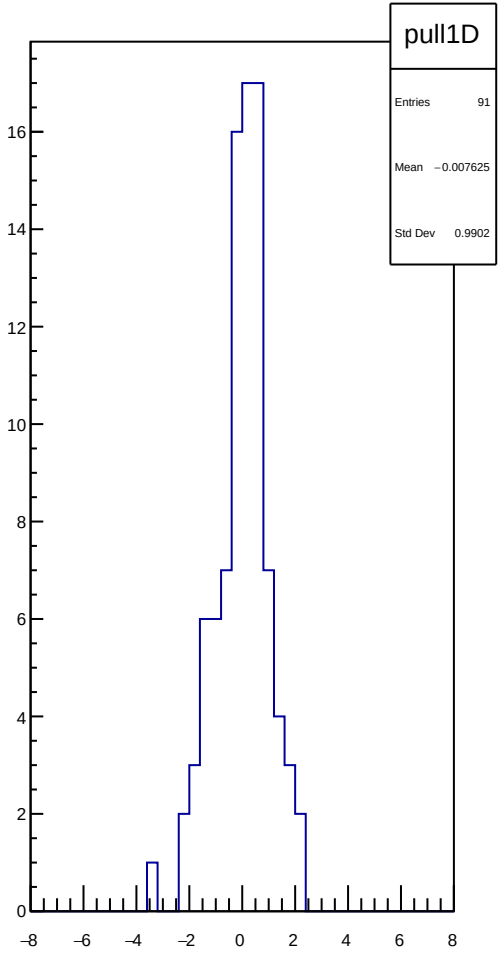

diff_bpm0l07X_rms vs run
χ² / ndf 6.096e+04 / 90
p0 1.113e+04 ± 8.432
18000
16000
14000
12000
10000
8000

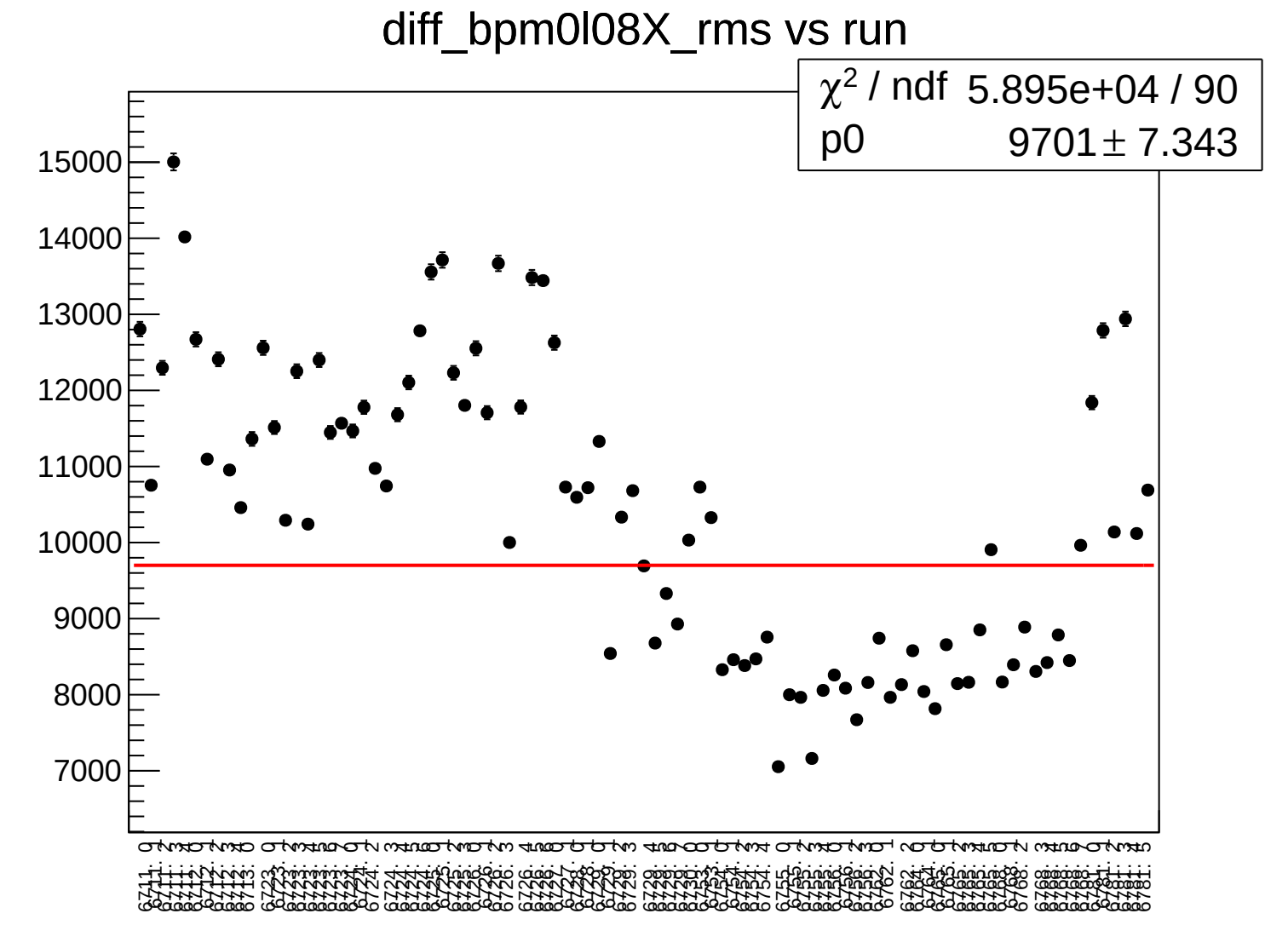

diff_bpm0l07Y_mean vs run
χ² / ndf 94.68 / 90
p0 0.8617 ± 1.116
pull
Entries 91
Mean 309.7
Std Dev 0

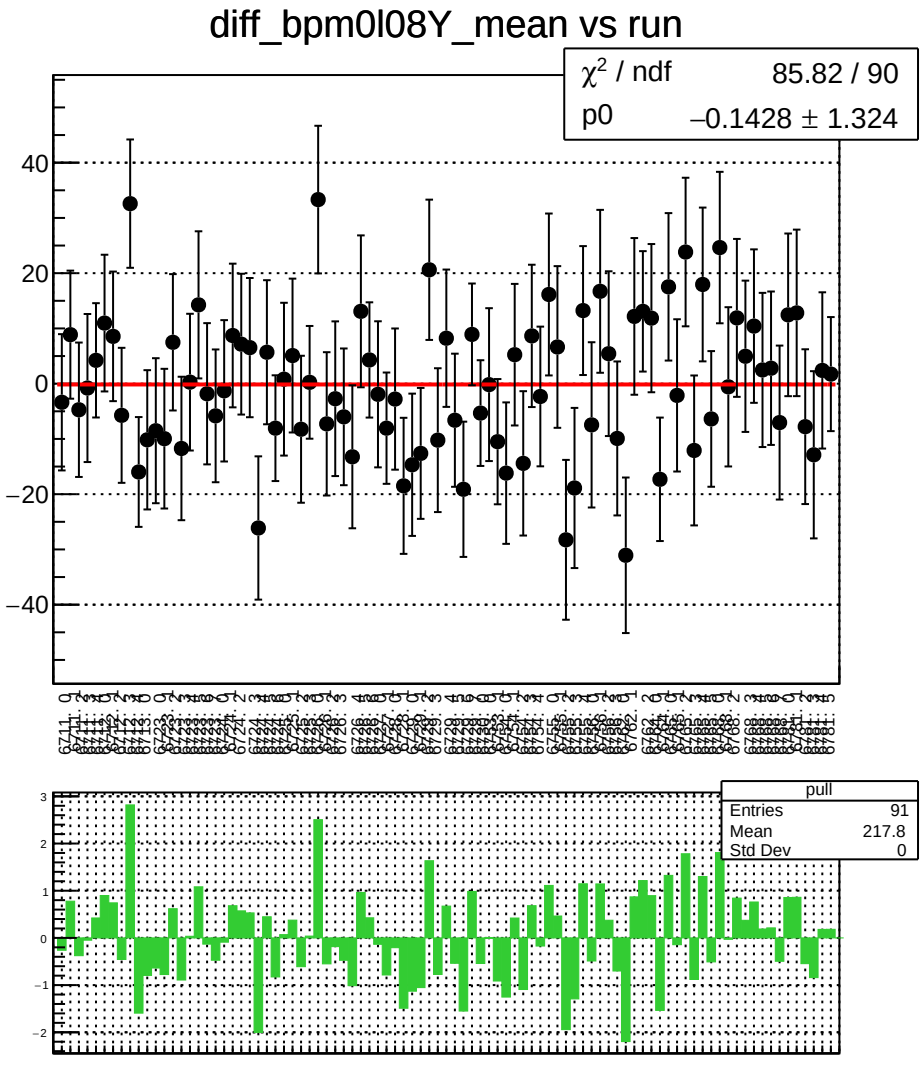

pull1D
Entries 91
Mean 0.01021
Std Dev 1.02

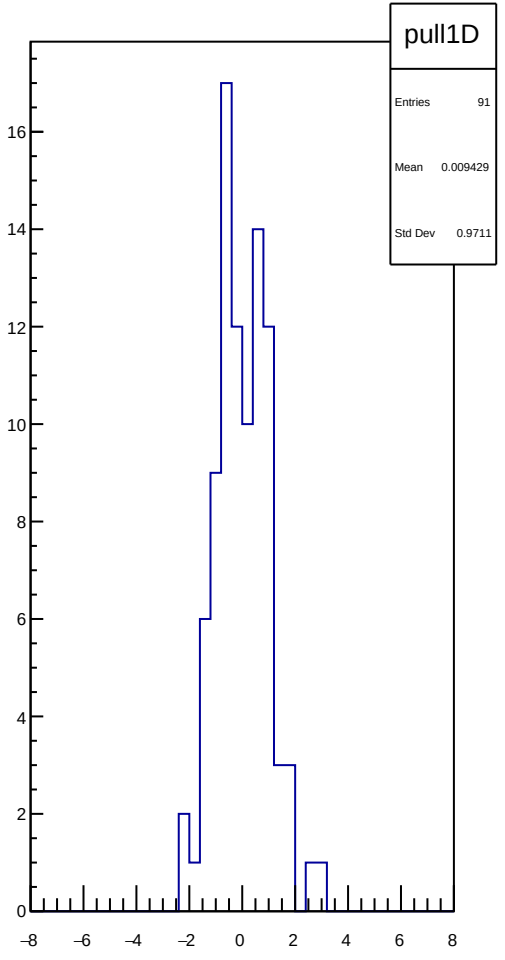

diff_bpm0l07Y_rms vs run
χ² / ndf 2.511e+04 / 90
p0 1052 ± 0.7889
1400
1300
1200
1100
1000
900

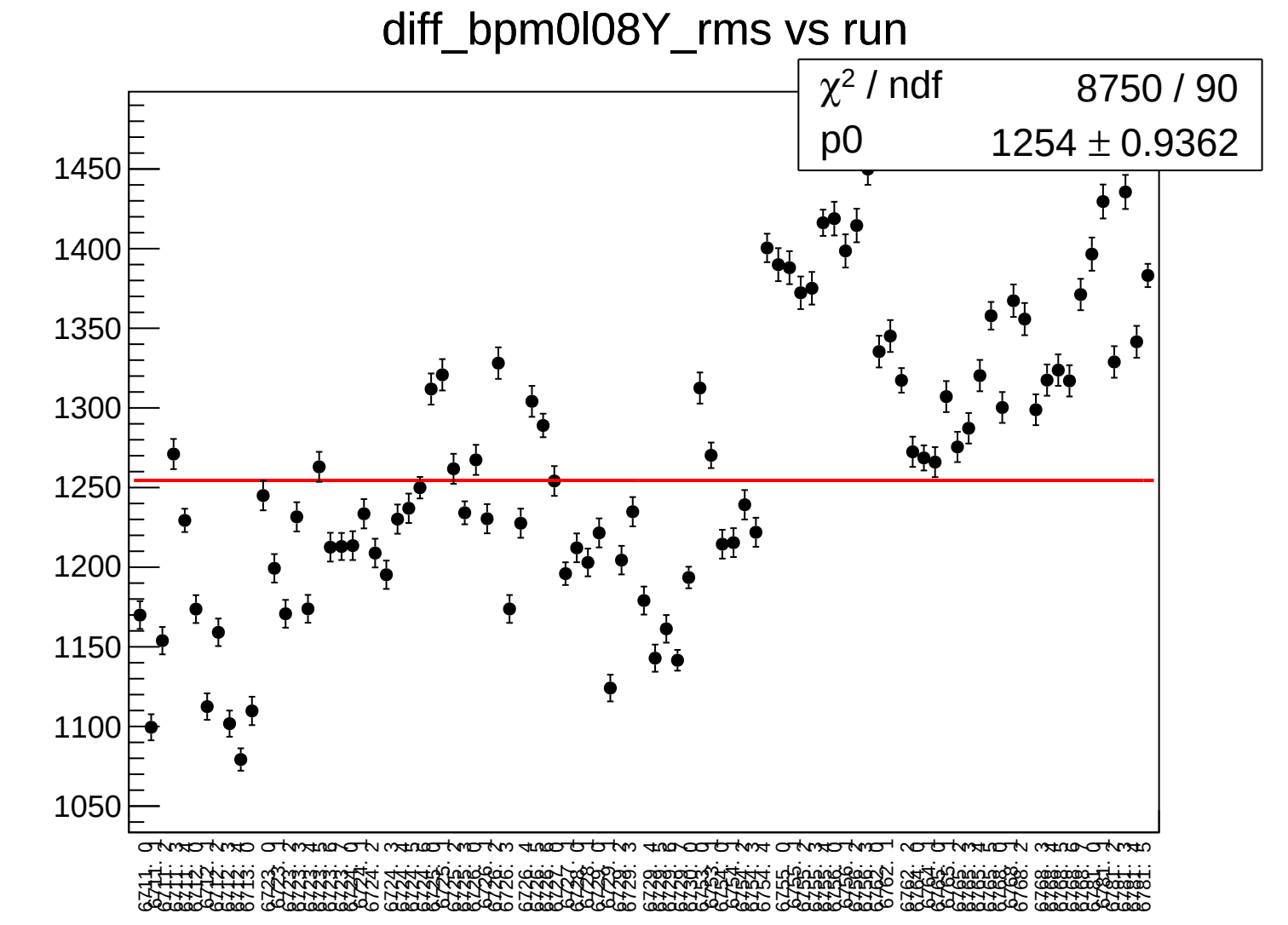

diff_bpm0l08X_mean vs run
χ^2 / ndf 89.24 / 90
p0 17.49 ± 10.38
pull
Entries 91
Mean −63.68
Std Dev 0

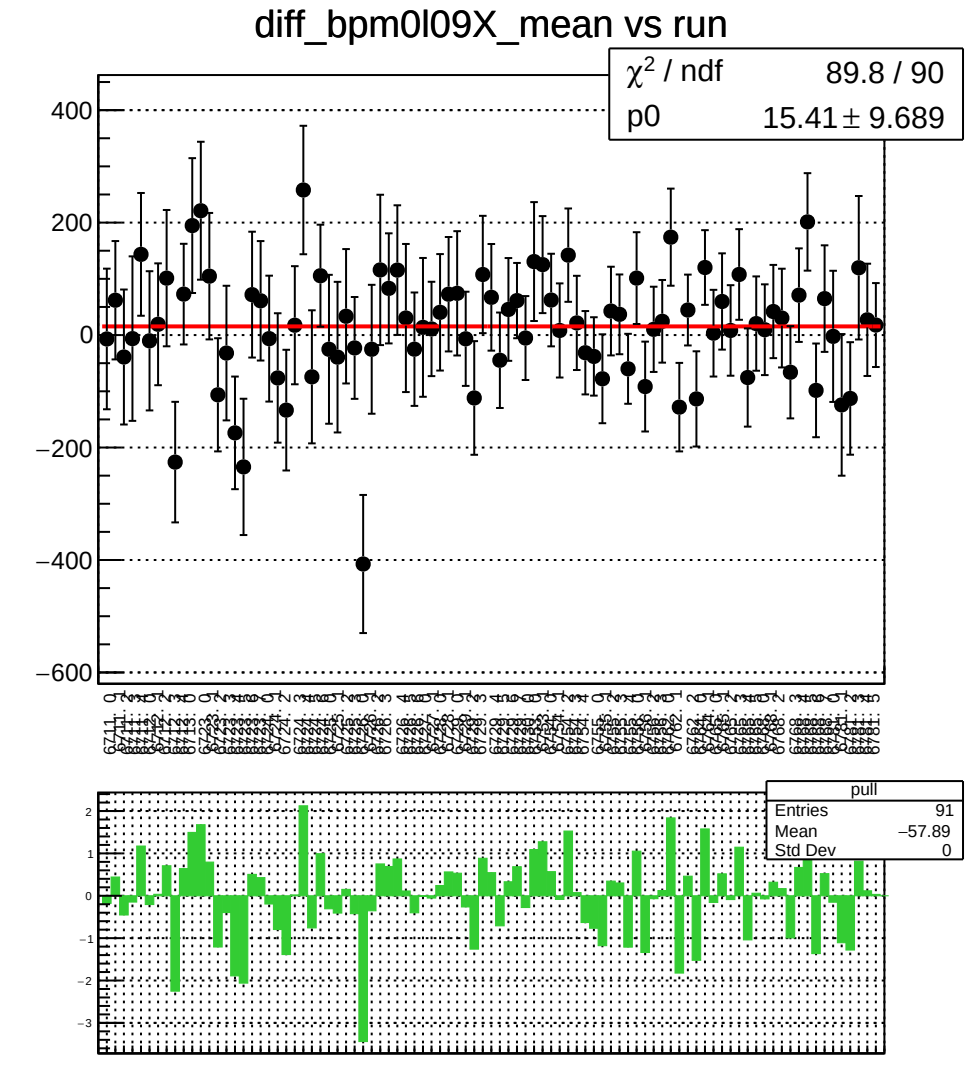

pull1D
Entries 91
Mean −0.007625
Std Dev 0.9902

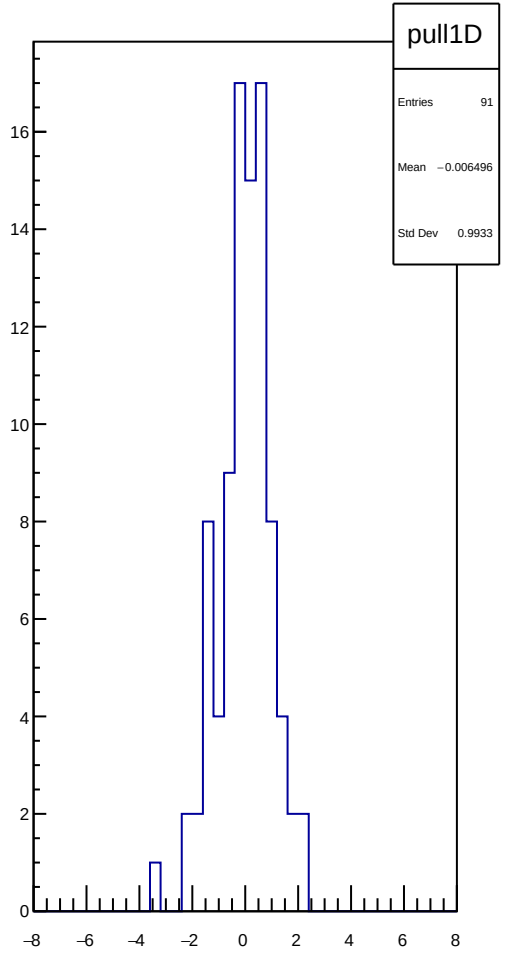

diff_bpm0l08X_rms vs run
χ² / ndf 5.895e+04 / 90
p0 9701 ± 7.343
15000
14000
13000
12000
11000
10000
9000
8000
7000

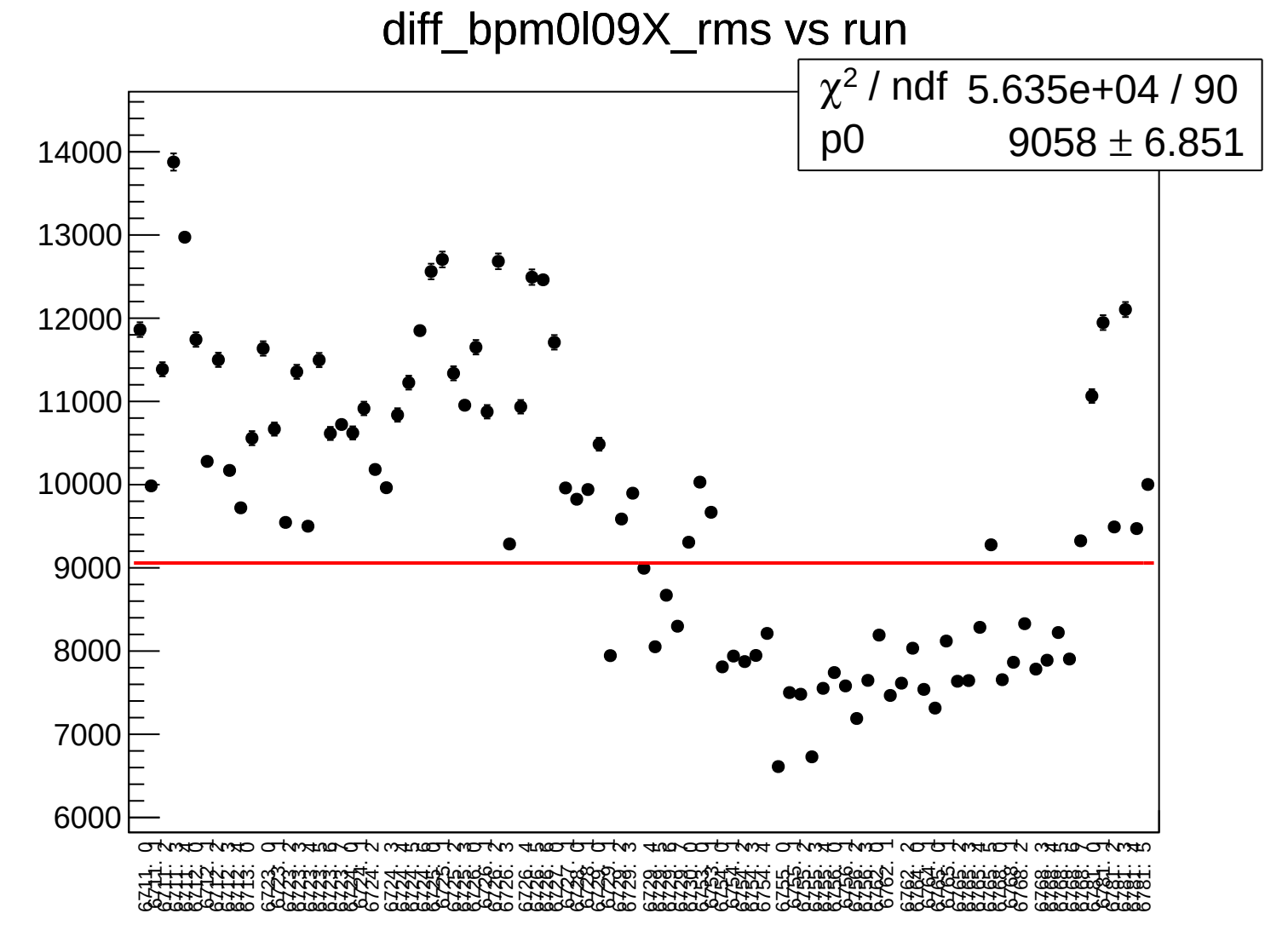

diff_bpm0l08Y_mean vs run
χ² / ndf 85.82 / 90
p0 −0.1428 ± 1.324
pull
Entries 91
Mean 217.8
Std Dev 0

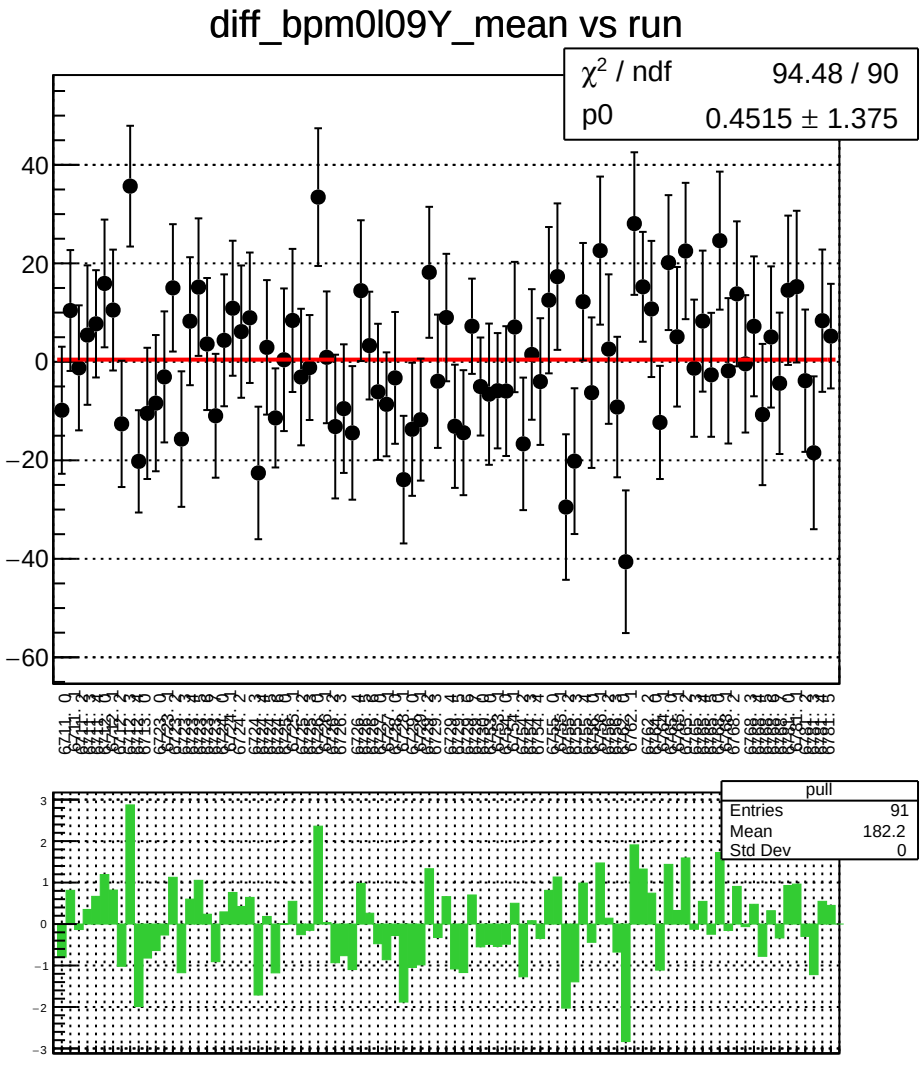

pull1D
Entries 91
Mean 0.009429
Std Dev 0.9711

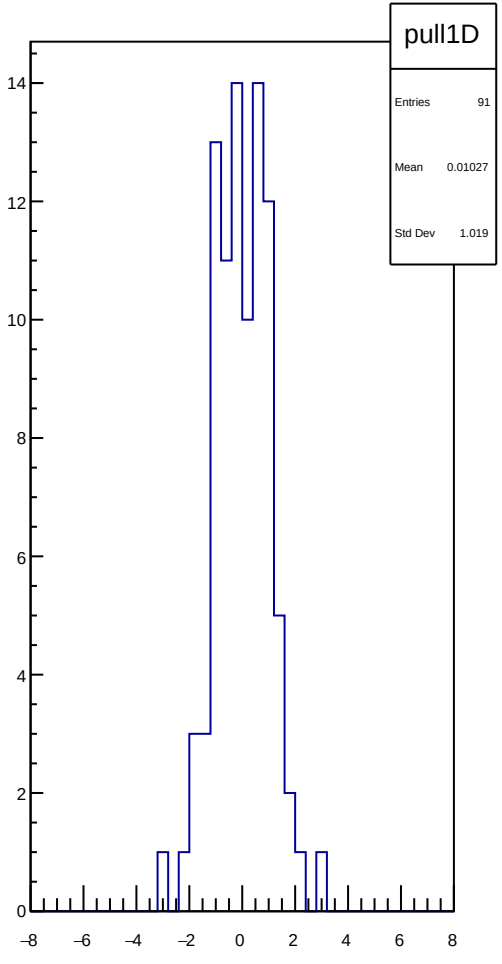

diff_bpm0l08Y_rms vs run
χ² / ndf 8750 / 90
p0 1254 ± 0.9362
1450
1400
1350
1300
1250
1200
1150
1100
1050

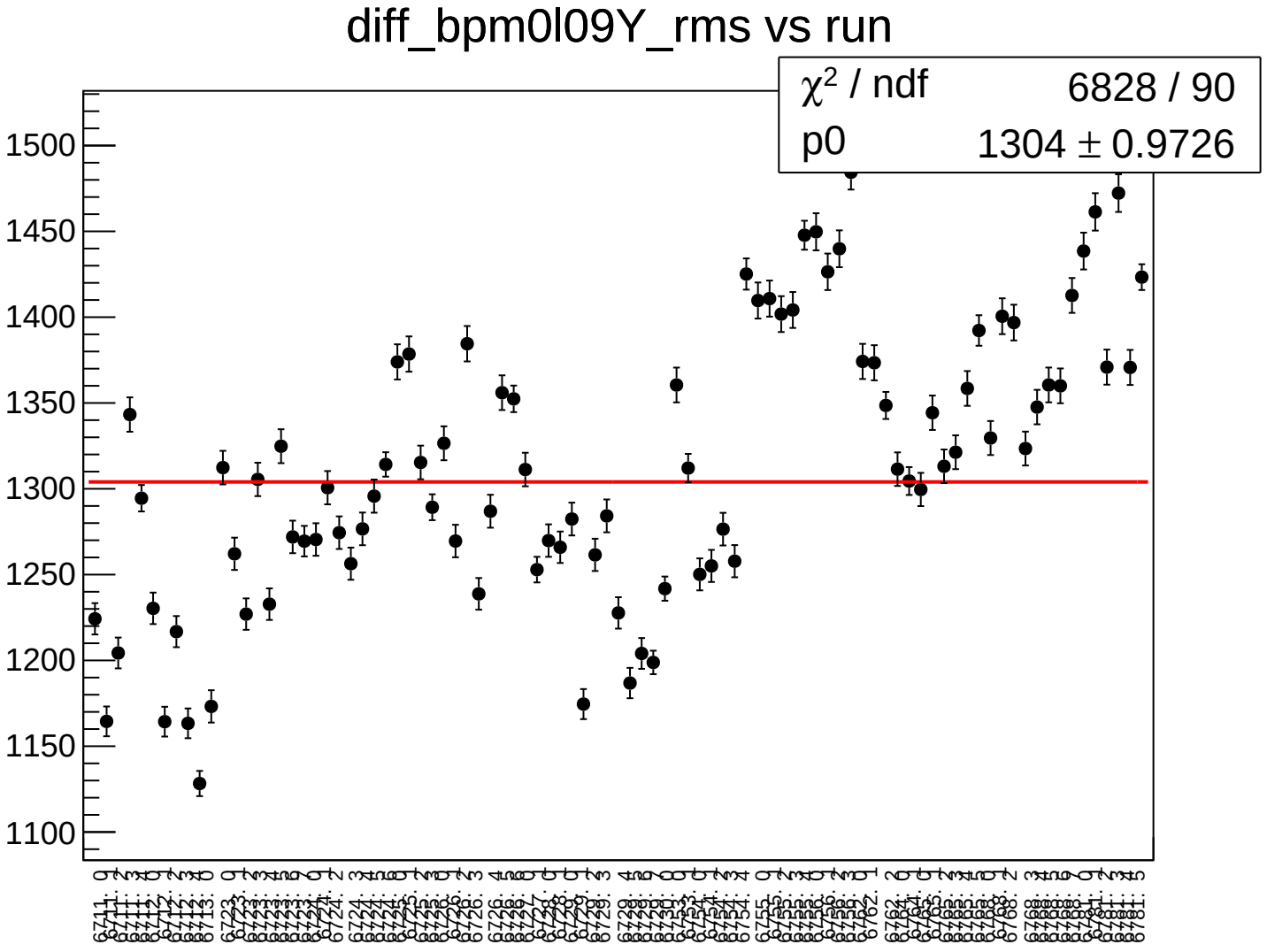

diff_bpm0l09X_mean vs run
χ² / ndf 89.8 / 90
p0 15.41 ± 9.689
pull
Entries 91
Mean −57.89
Std Dev 0

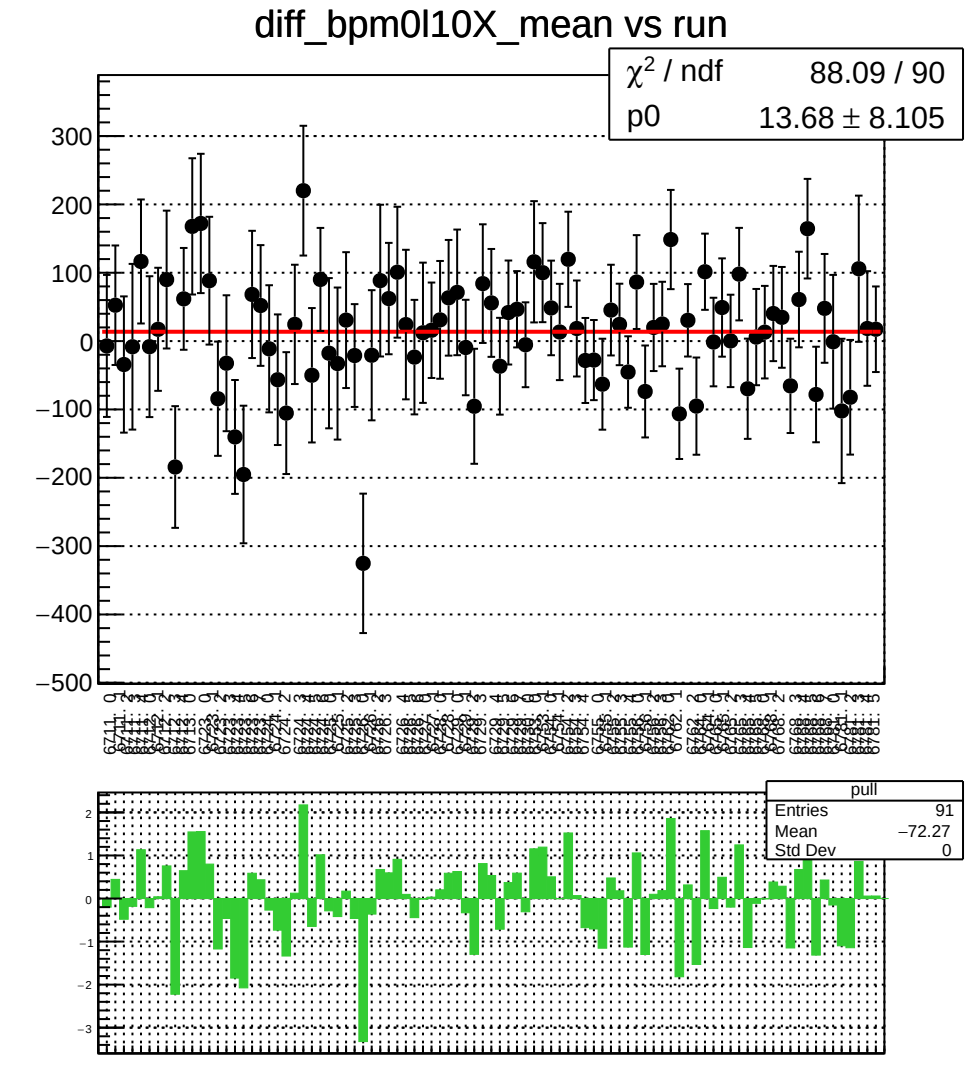

pull1D
Entries 91
Mean −0.006496
Std Dev 0.9933

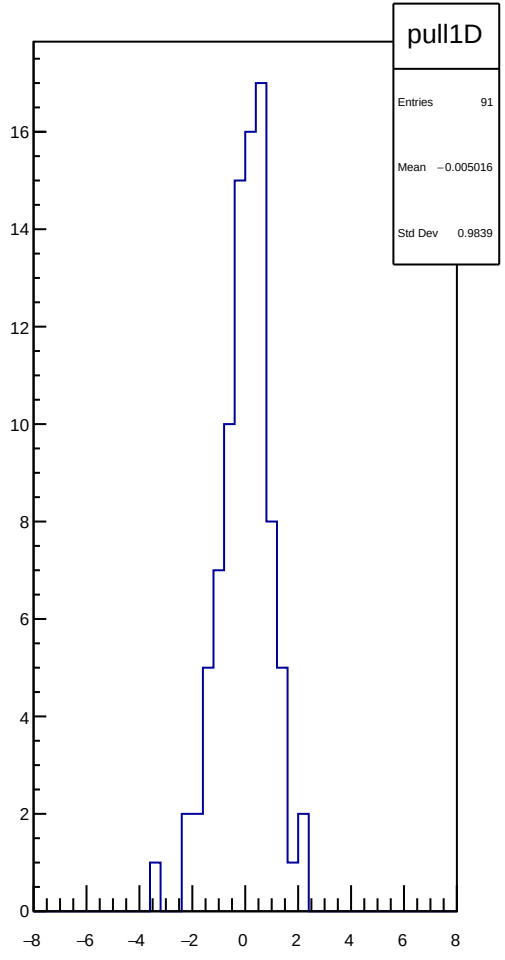

diff_bpm0l09X_rms vs run
χ² / ndf 5.635e+04 / 90
p0 9058 ± 6.851
14000
13000
12000
11000
10000
9000
8000
7000
6000

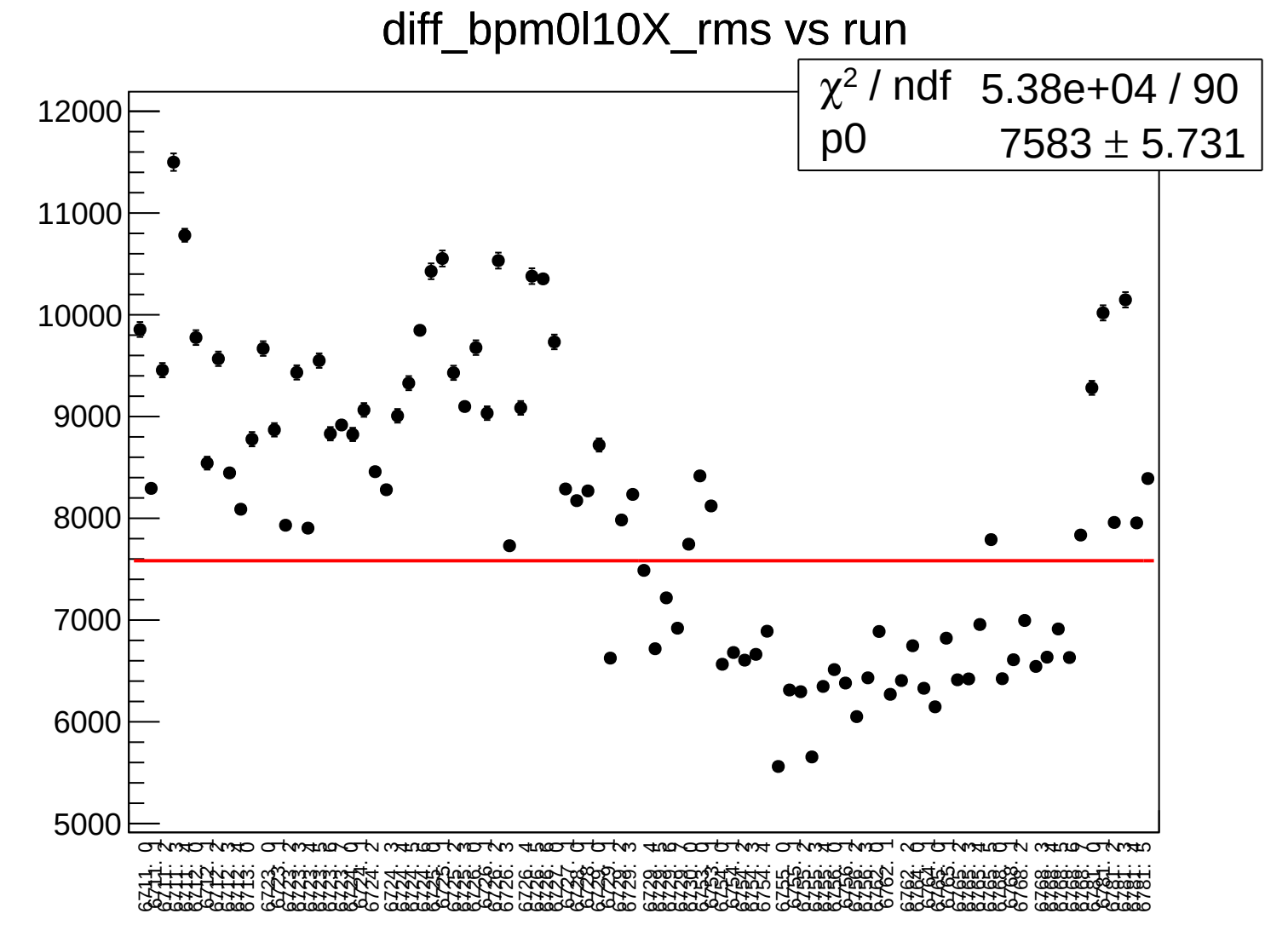

diff_bpm0l09Y_mean vs run
χ² / ndf 94.48 / 90
p0 0.4515 ± 1.375
pull
Entries 91
Mean 182.2
Std Dev 0

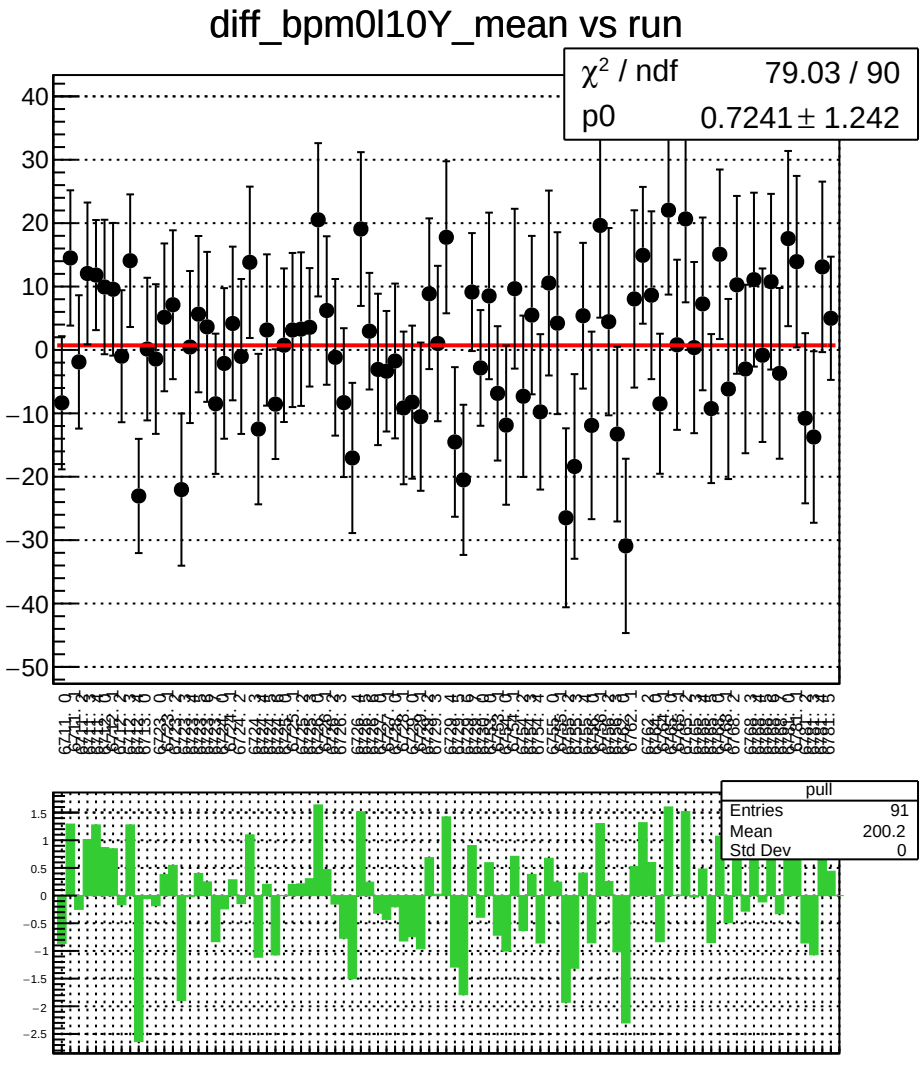

pull1D
Entries 91
Mean 0.01027
Std Dev 1.019

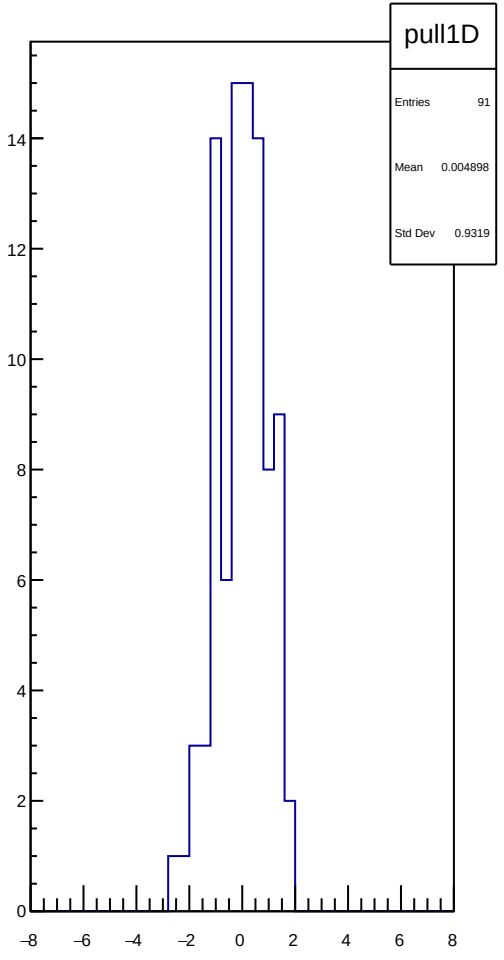

diff_bpm0l09Y_rms vs run
χ² / ndf 6828 / 90
p0 1304 ± 0.9726
1500
1450
1400
1350
1300
1250
1200
1150
1100

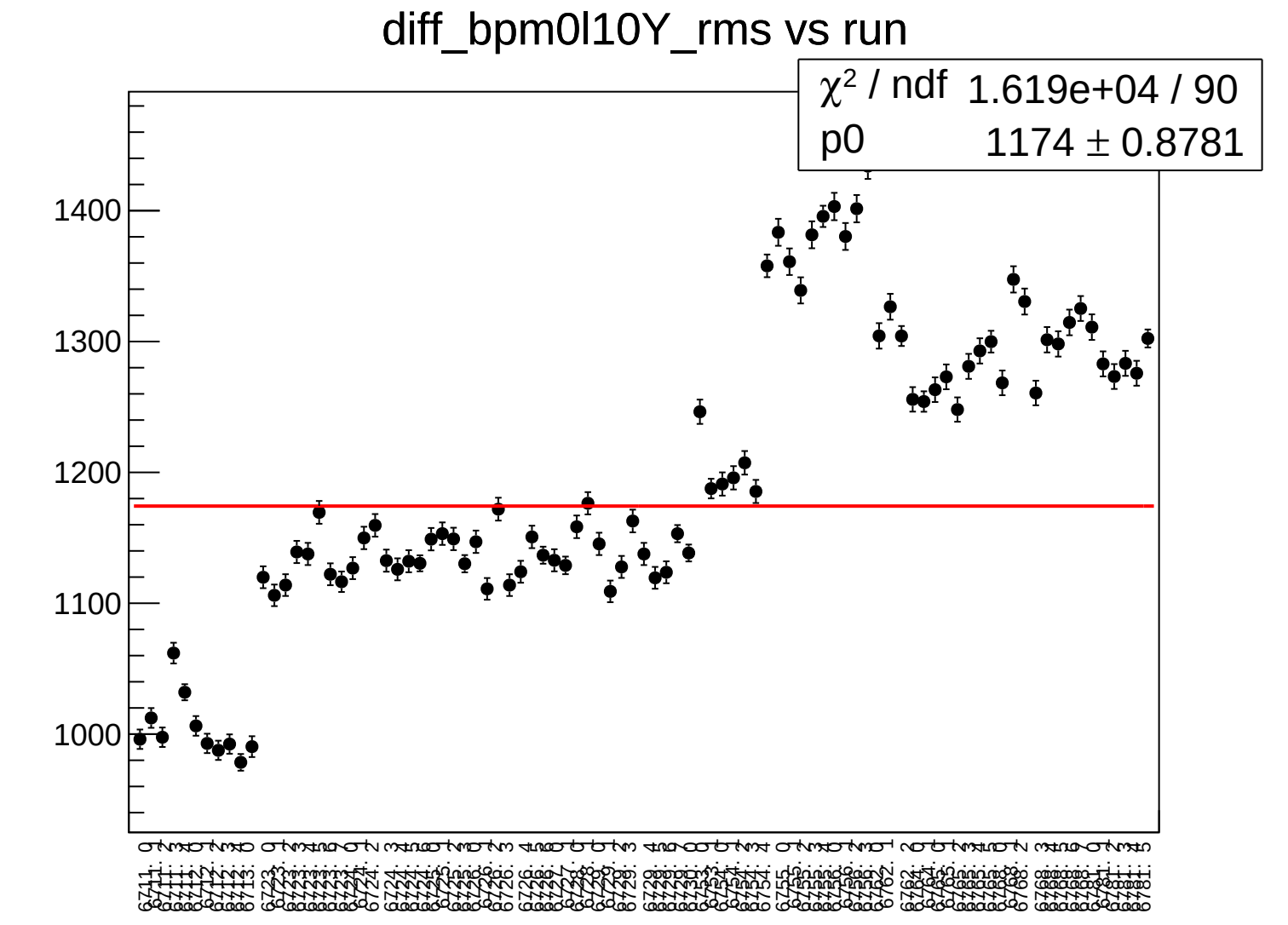

diff_bpm0l10X_mean vs run
χ² / ndf 88.09 / 90
p0 13.68 ± 8.105
pull
Entries 91
Mean −72.27
Std Dev 0

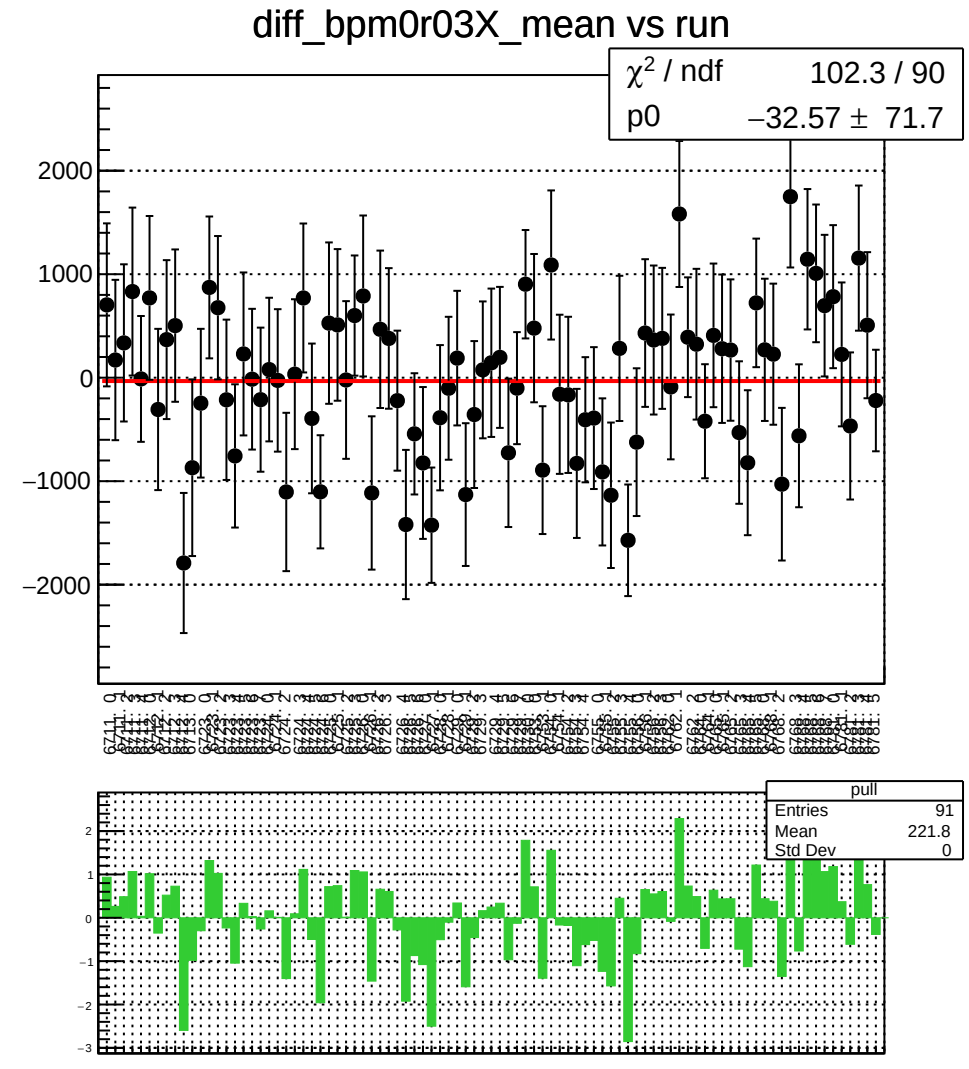

pull1D
Entries 91
Mean −0.005016
Std Dev 0.9839

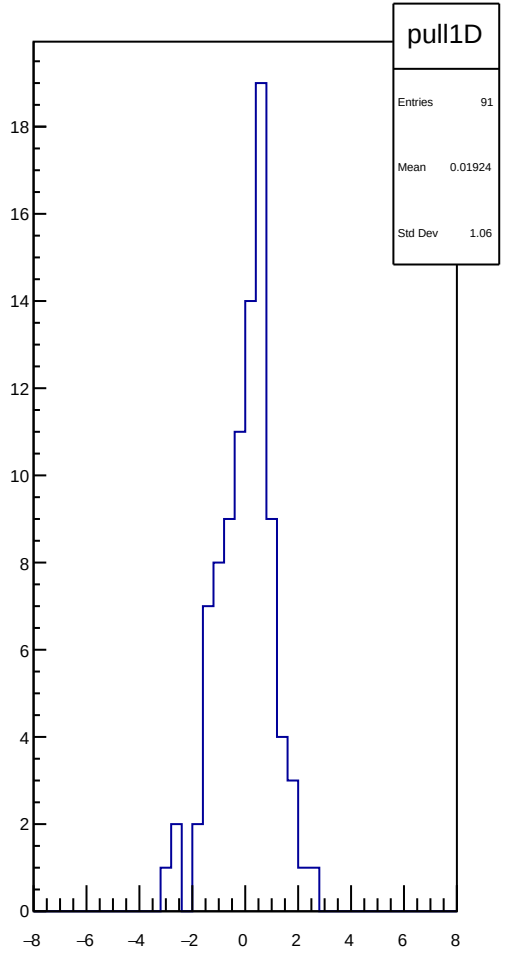

diff_bpm0l10X_rms vs run
χ^2 / ndf 5.38e+04 / 90
p0 7583 ± 5.731
12000
11000
10000
9000
8000
7000
6000
5000

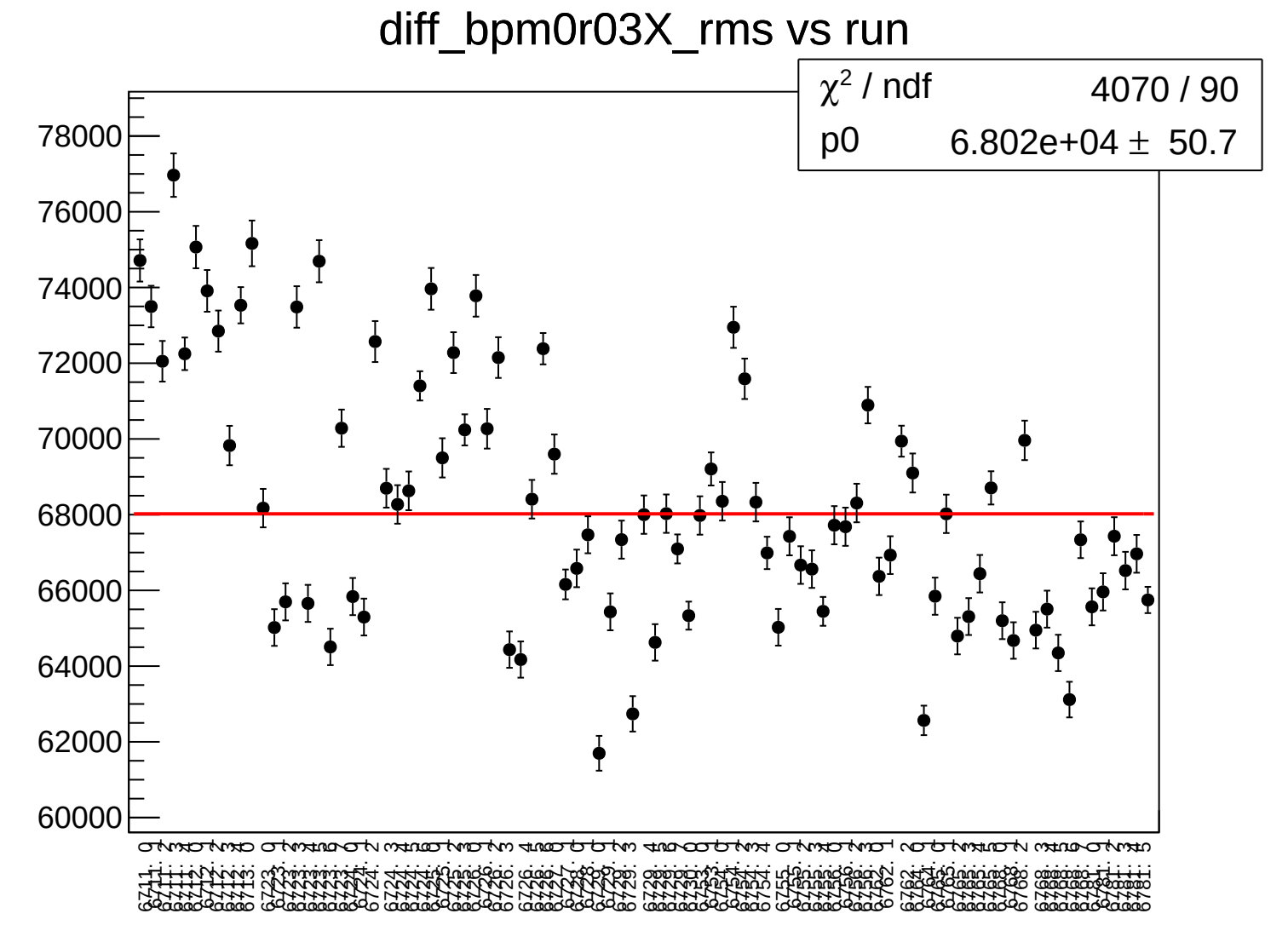

diff_bpm0l10Y_mean vs run
χ² / ndf 79.03 / 90
p0 0.7241 ± 1.242
pull
Entries 91
Mean 200.2
Std Dev 0

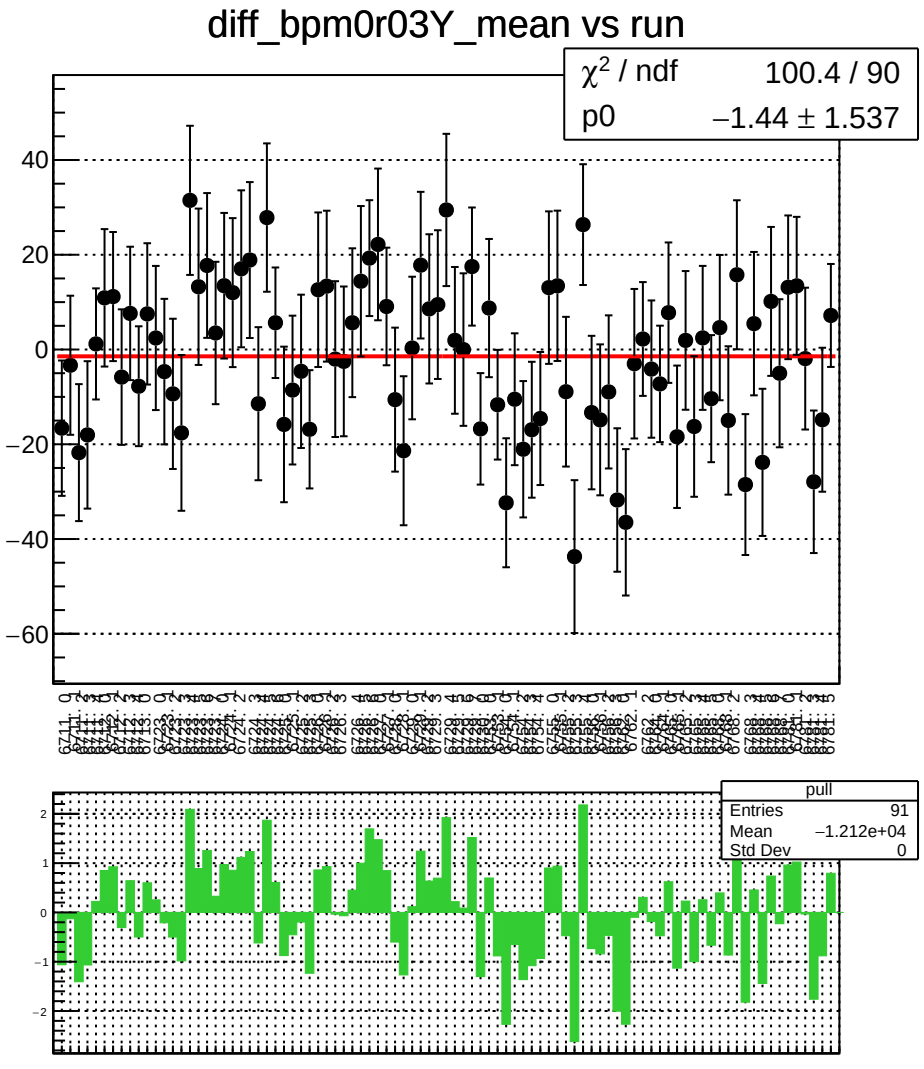

pull1D
Entries 91
Mean 0.004898
Std Dev 0.9319

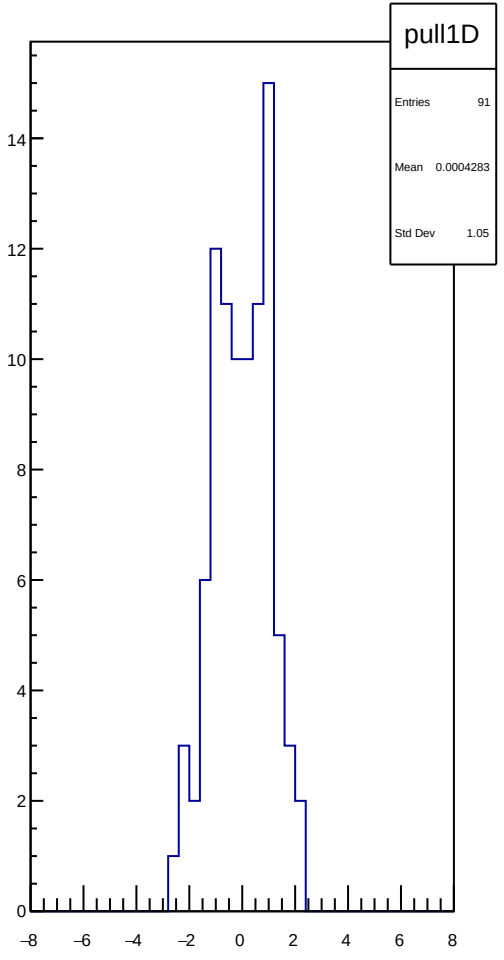

diff_bpm0l10Y_rms vs run
χ² / ndf 1.619e+04 / 90
p0 1174 ± 0.8781
1400
1300
1200
1100
1000

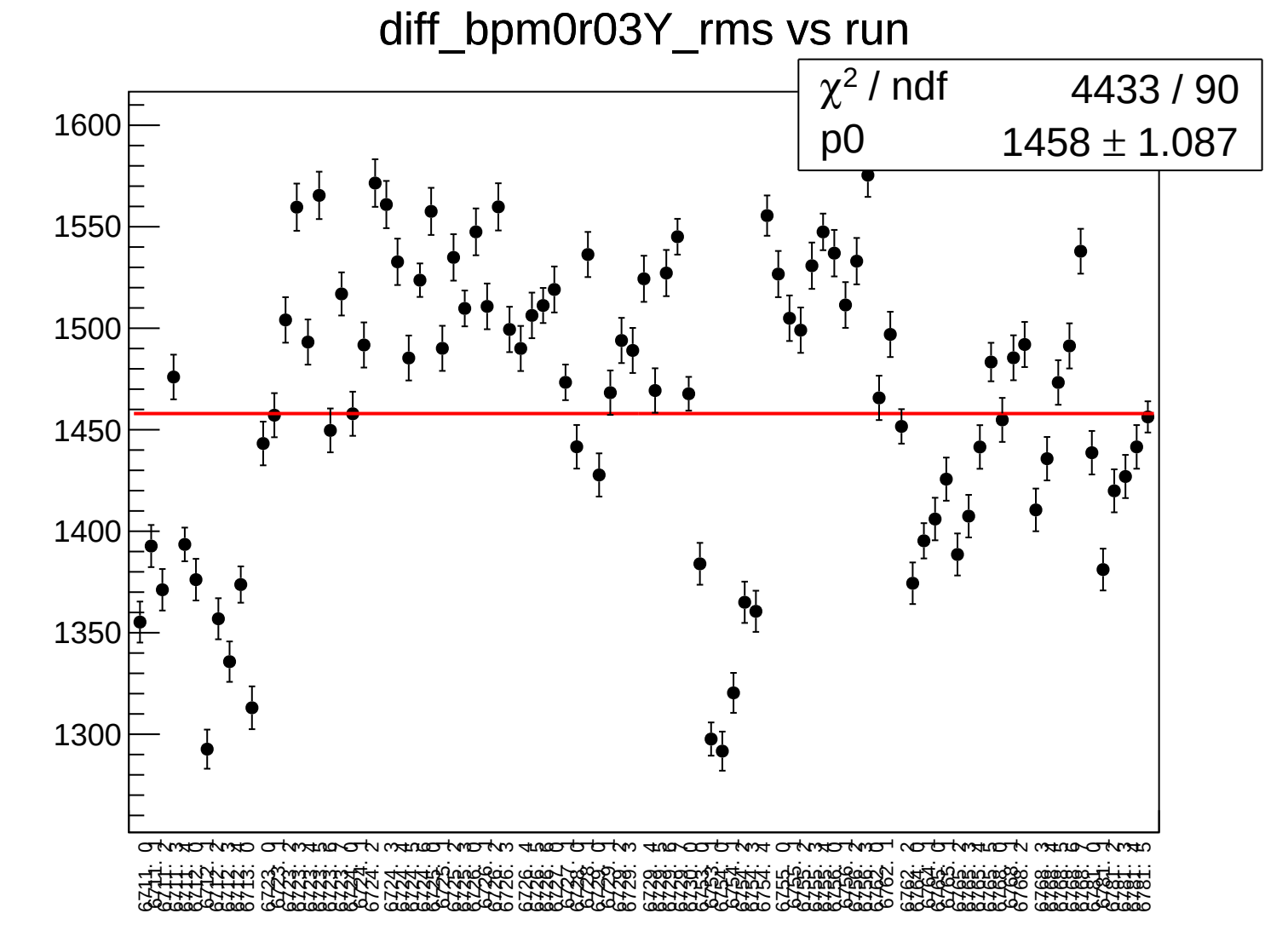

diff_bpm0r03X_mean vs run
χ^2 / ndf 102.3 / 90
p0 −32.57 ± 71.7
2000
1000
0
−1000
−2000
pull
Entries 91
Mean 221.8
Std Dev 0
2
1
0
−1
−2
−3

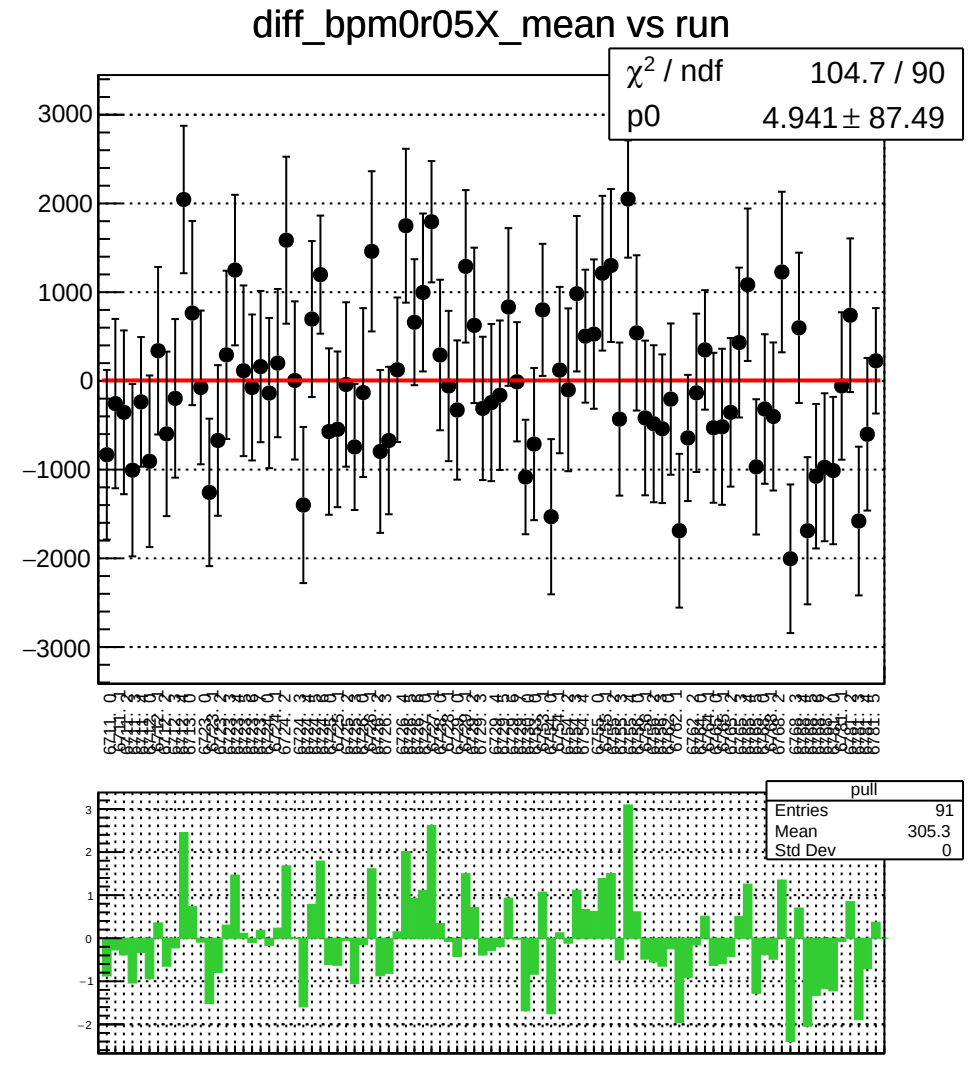

pull1D
Entries 91
Mean 0.01924
Std Dev 1.06
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

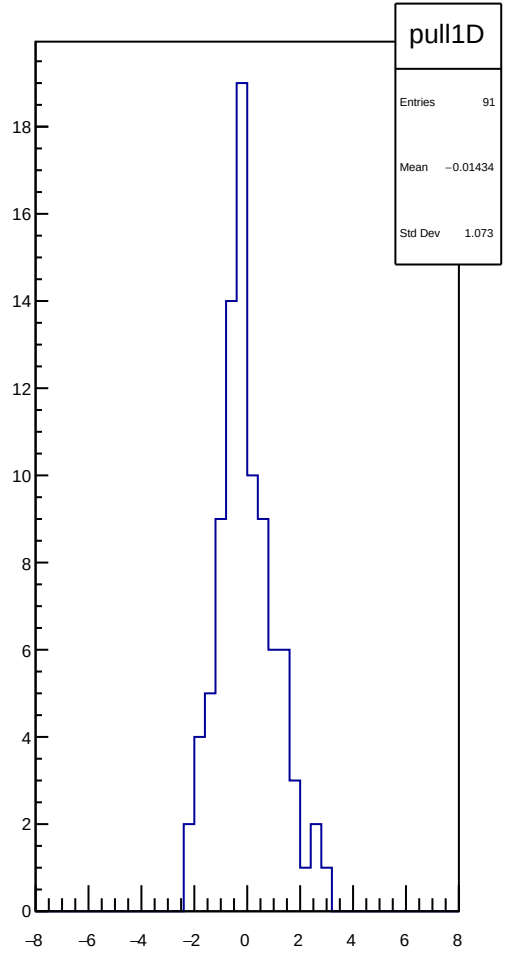

diff_bpm0r03X_rms vs run
χ² / ndf 4070 / 90
p0 6.802e+04 ± 50.7
78000
76000
74000
72000
70000
68000
66000
64000
62000
60000


diff_bpm0r03Y_mean vs run
χ² / ndf 100.4 / 90
p0 −1.44 ± 1.537
pull
Entries 91
Mean −1.212e+04
Std Dev 0

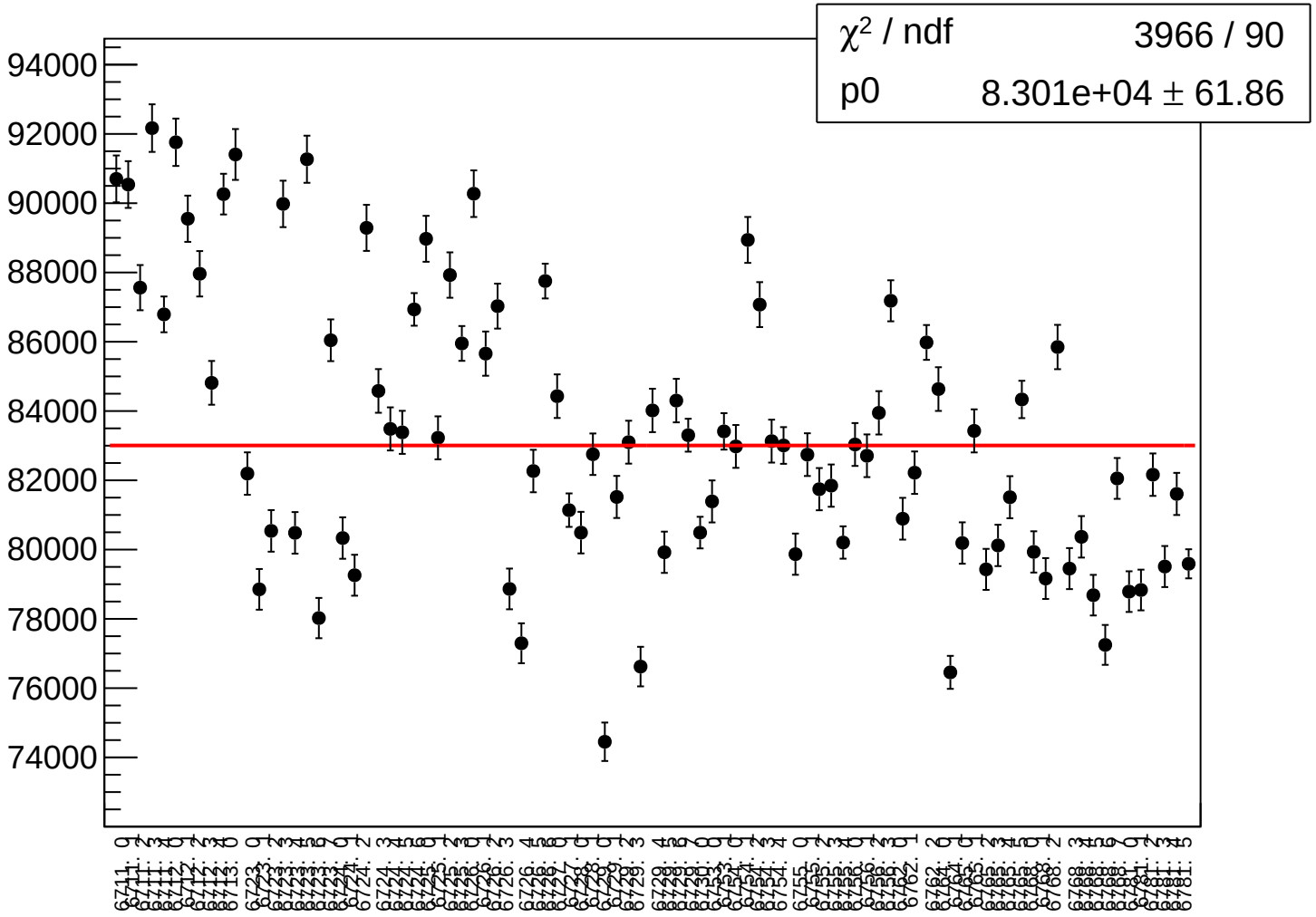

pull1D
Entries 91
Mean 0.0004283
Std Dev 1.05

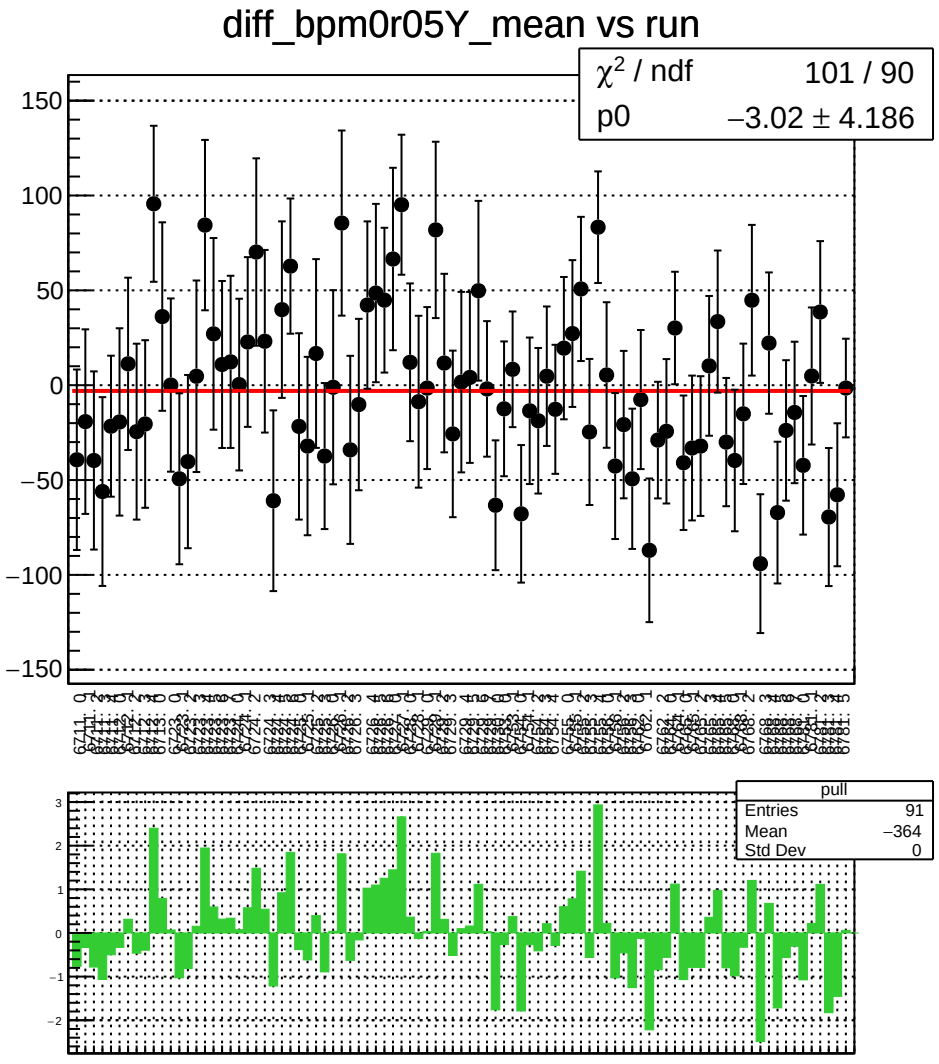

diff_bpm0r03Y_rms vs run
χ² / ndf 4433 / 90
p0 1458 ± 1.087
1600
1550
1500
1450
1400
1350
1300

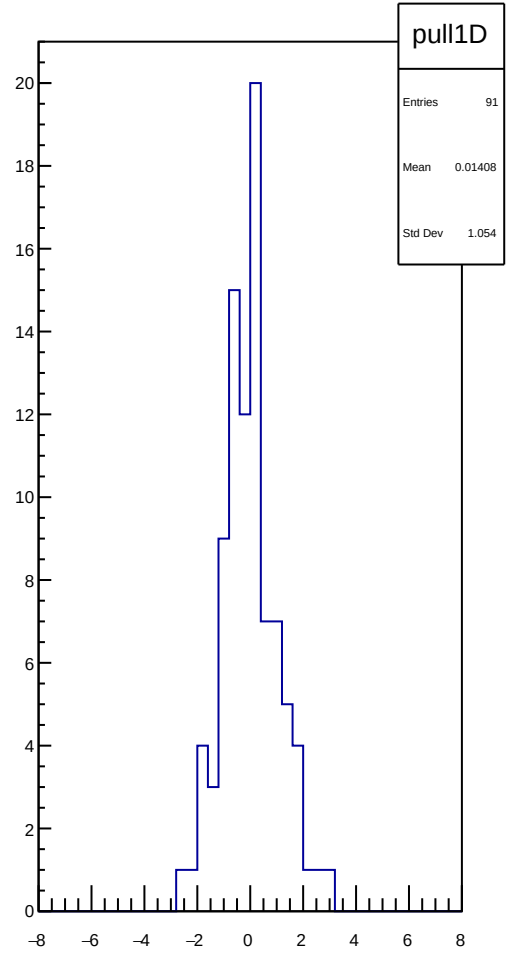

diff_bpm0r05X_mean vs run
χ^2 / ndf 104.7 / 90
p0 4.941 ± 87.49
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 305.3
Std Dev 0
3
2
1
0
−1
−2

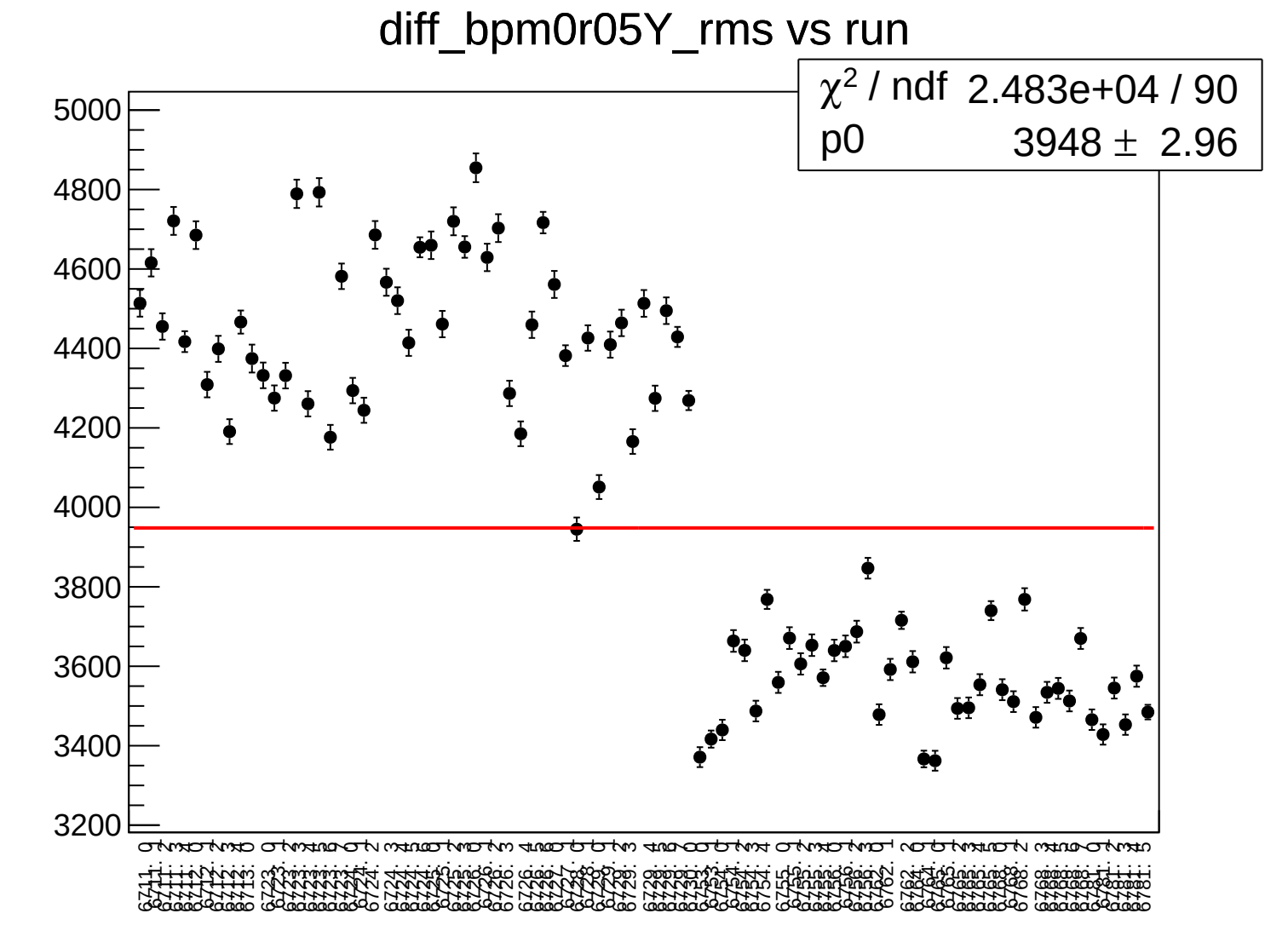

pull1D
Entries 91
Mean −0.01434
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

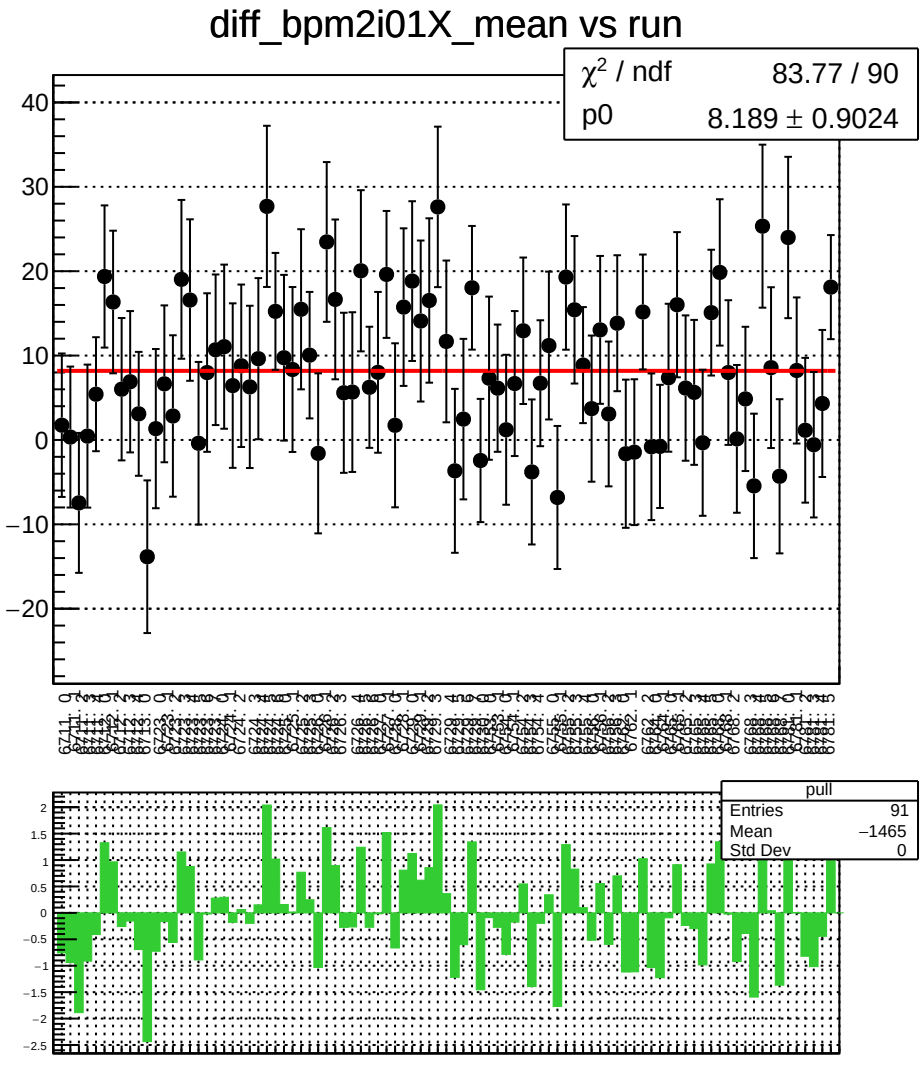
diff_bpm0r05X_rms vs run

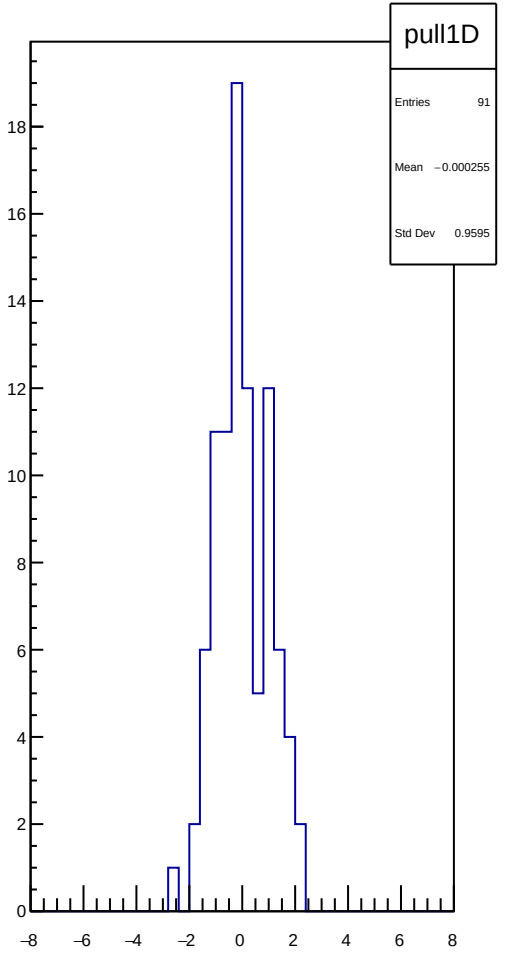


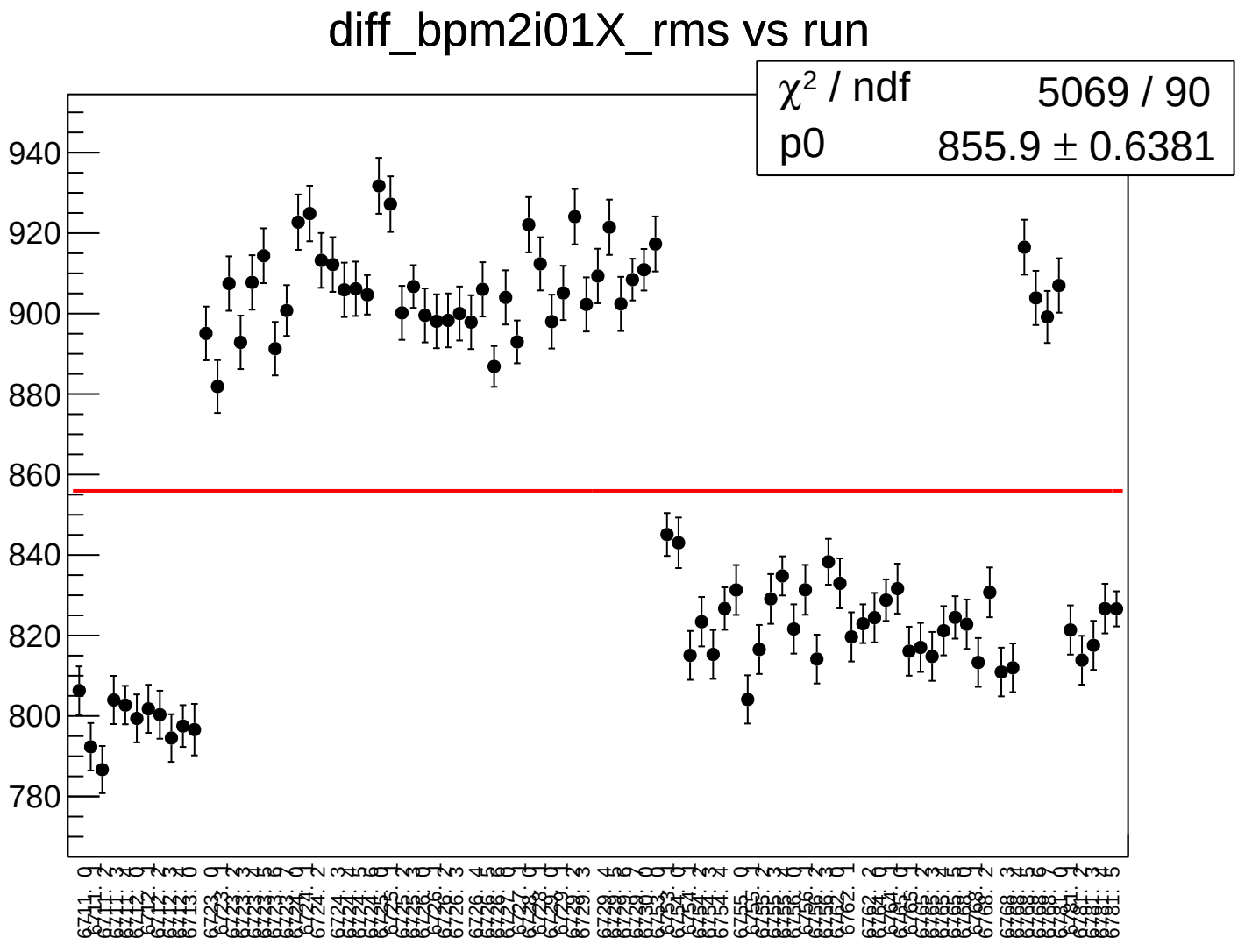

diff_bpm0r05Y_mean vs run
χ² / ndf 101 / 90
p0 −3.02 ± 4.186
150
100
50
0
−50
−100
−150
pull
Entries 91
Mean −364
Std Dev 0
3
2
1
0
−1
−2

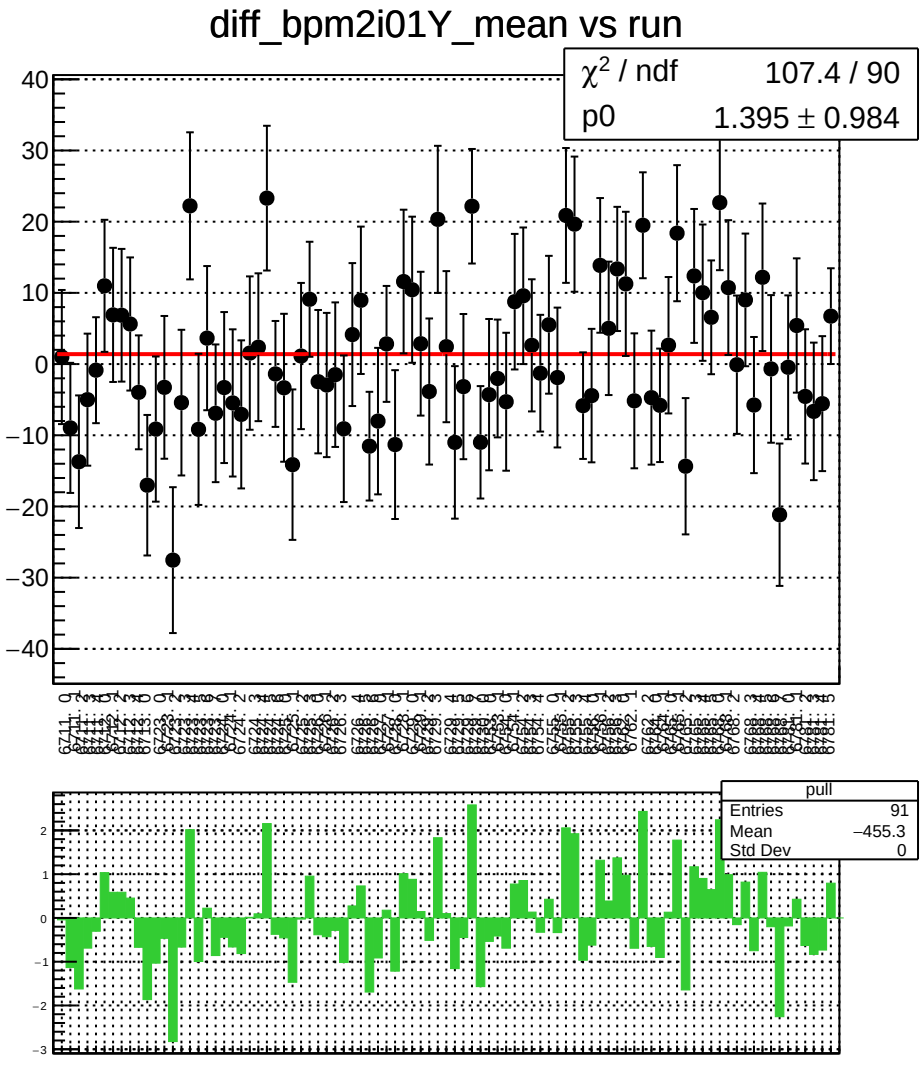

pull1D
Entries 91
Mean 0.01408
Std Dev 1.054
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

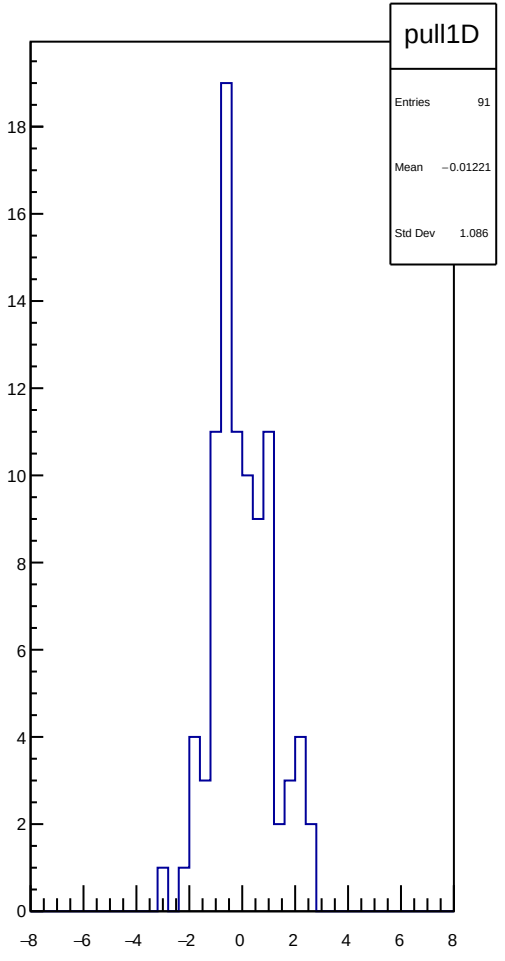

diff_bpm0r05Y_rms vs run
χ^2 / ndf 2.483e+04 / 90
p0 3948 ± 2.96
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

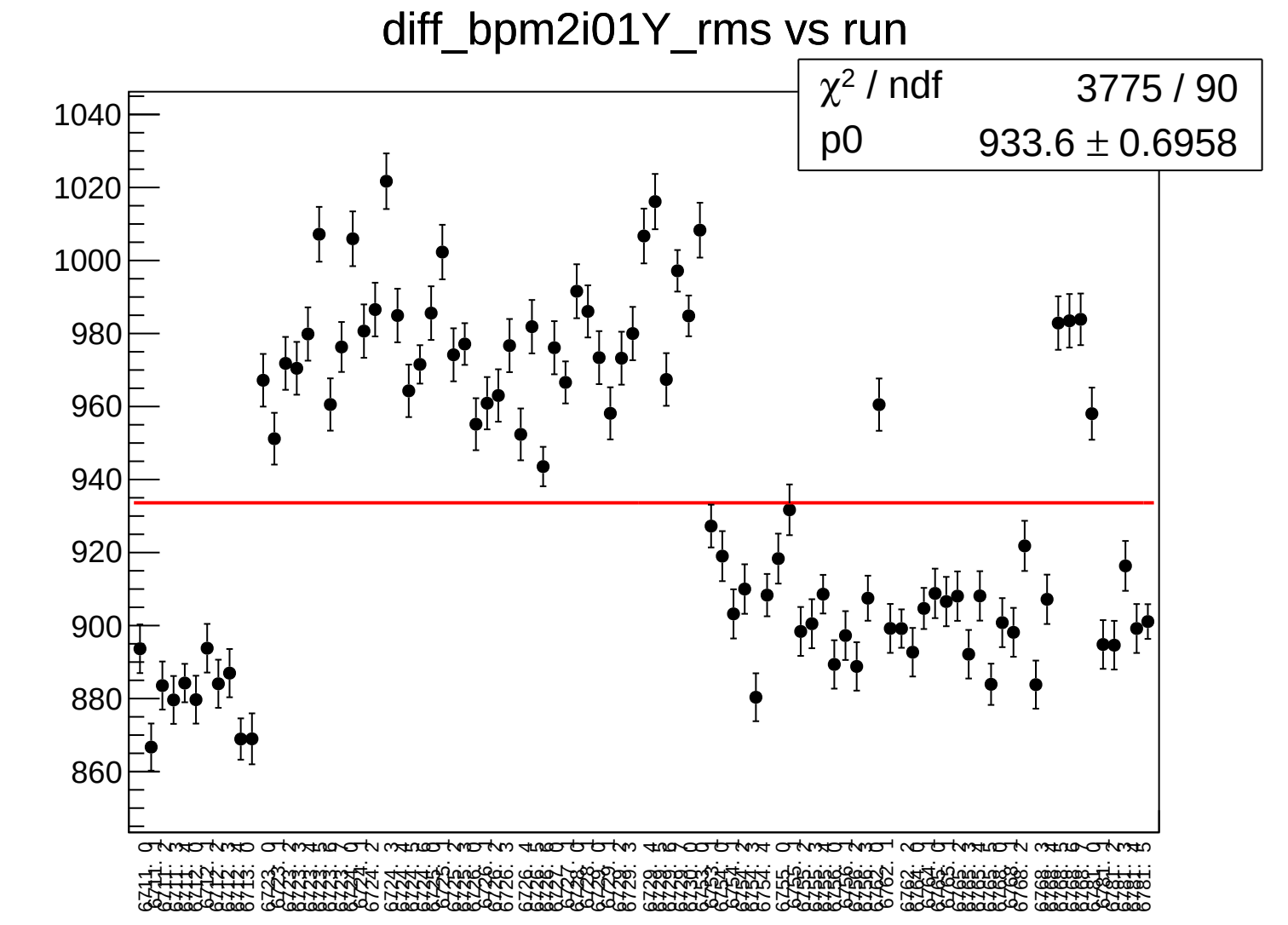

diff_bpm2i01X_mean vs run
χ² / ndf 83.77 / 90
p0 8.189 ± 0.9024
pull
Entries 91
Mean −1465
Std Dev 0

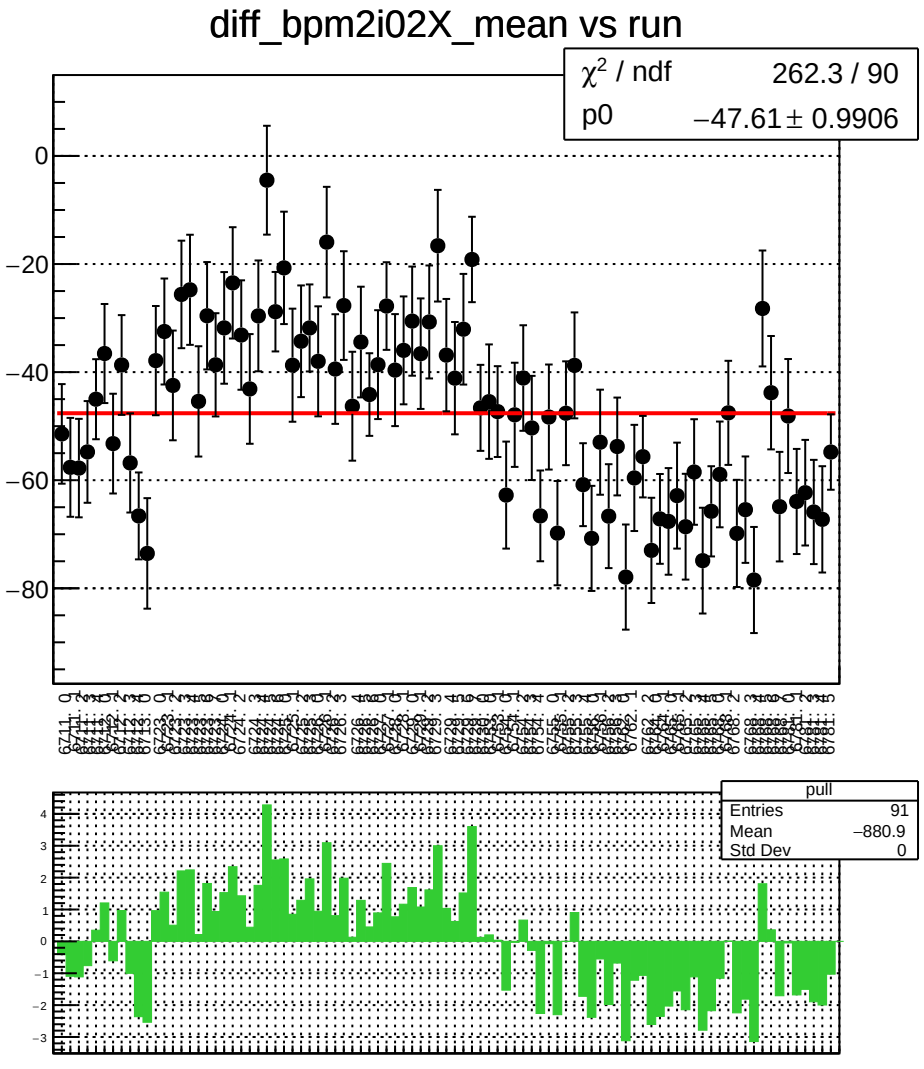

pull1D
Entries 91
Mean −0.000255
Std Dev 0.9595

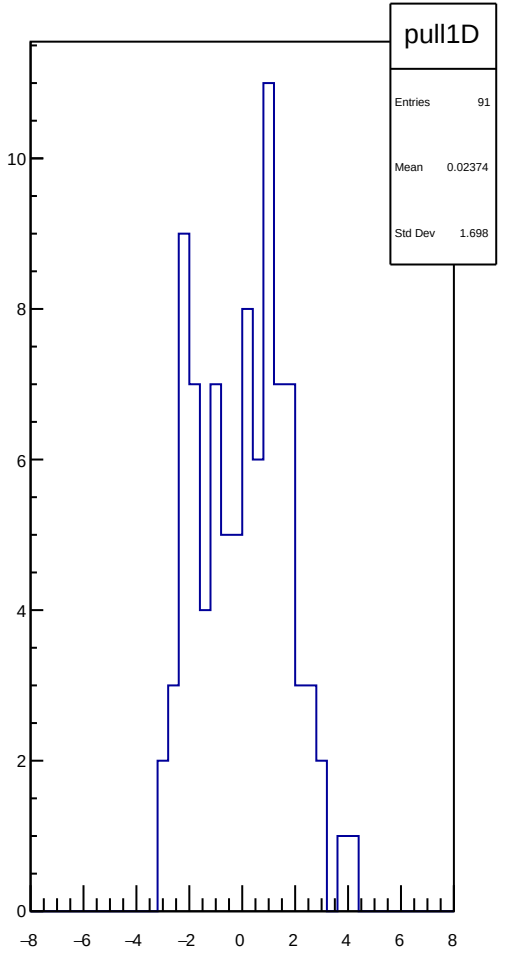

diff_bpm2i01X_rms vs run
χ² / ndf 5069 / 90
p0 855.9 ± 0.6381
940
920
900
880
860
840
820
800
780

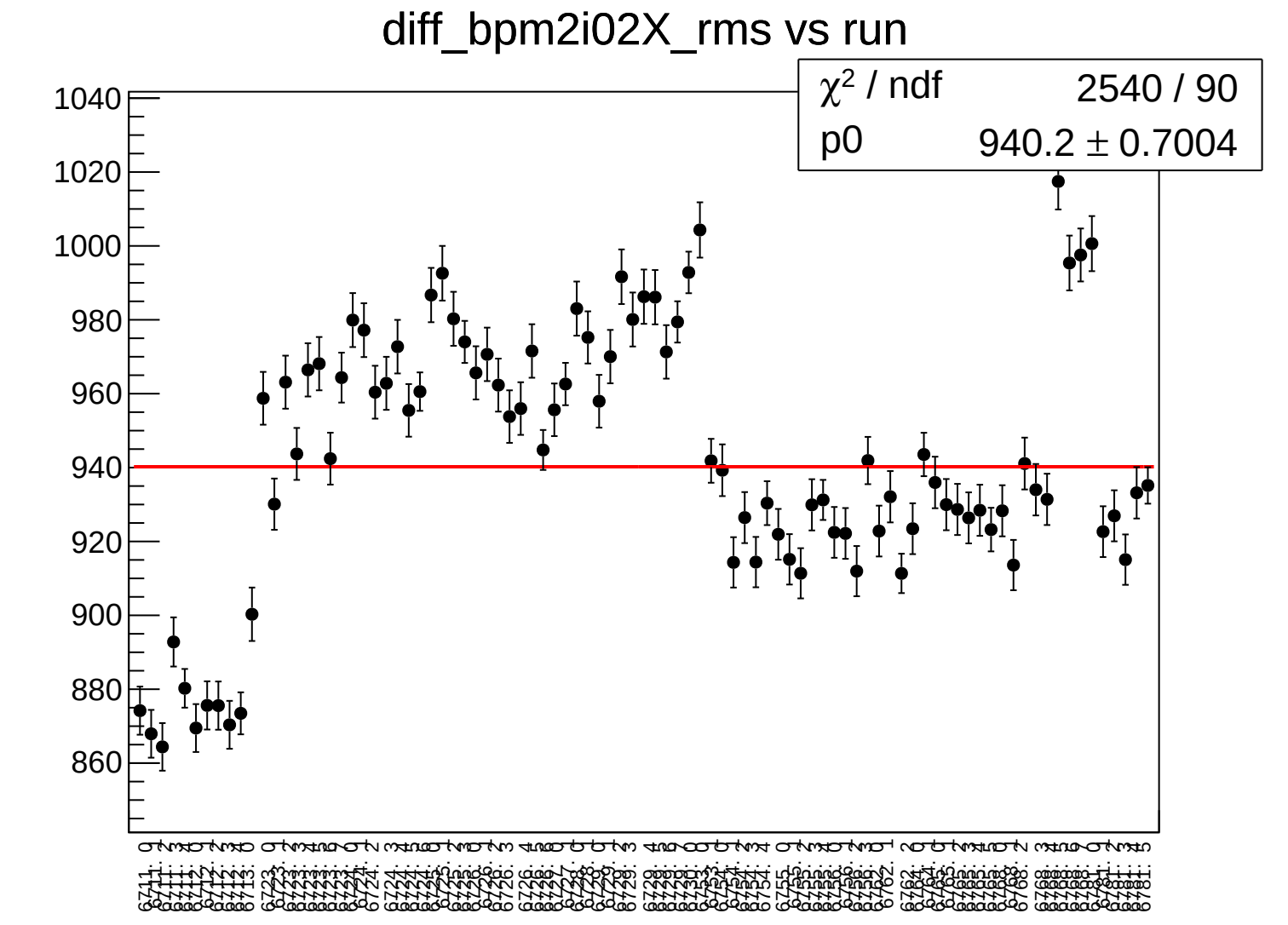

diff_bpm2i01Y_mean vs run
χ² / ndf 107.4 / 90
p0 1.395 ± 0.984
pull
Entries 91
Mean −455.3
Std Dev 0

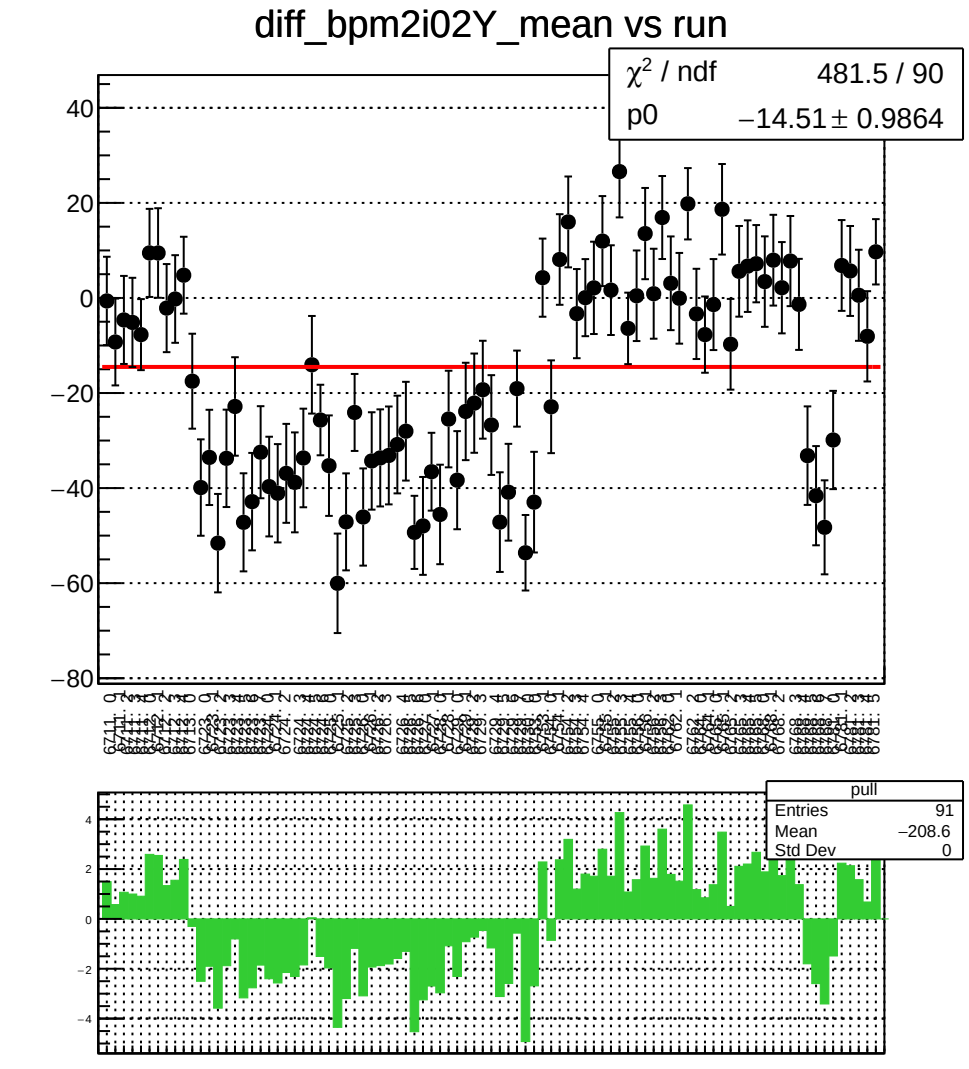

pull1D
Entries 91
Mean −0.01221
Std Dev 1.086

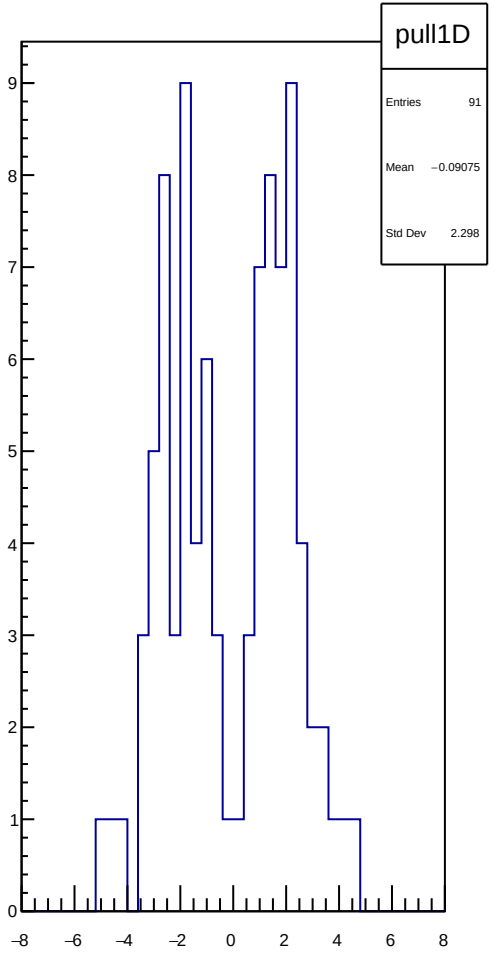

diff_bpm2i01Y_rms vs run
χ² / ndf 3775 / 90
p0 933.6 ± 0.6958
1040
1020
1000
980
960
940
920
900
880
860

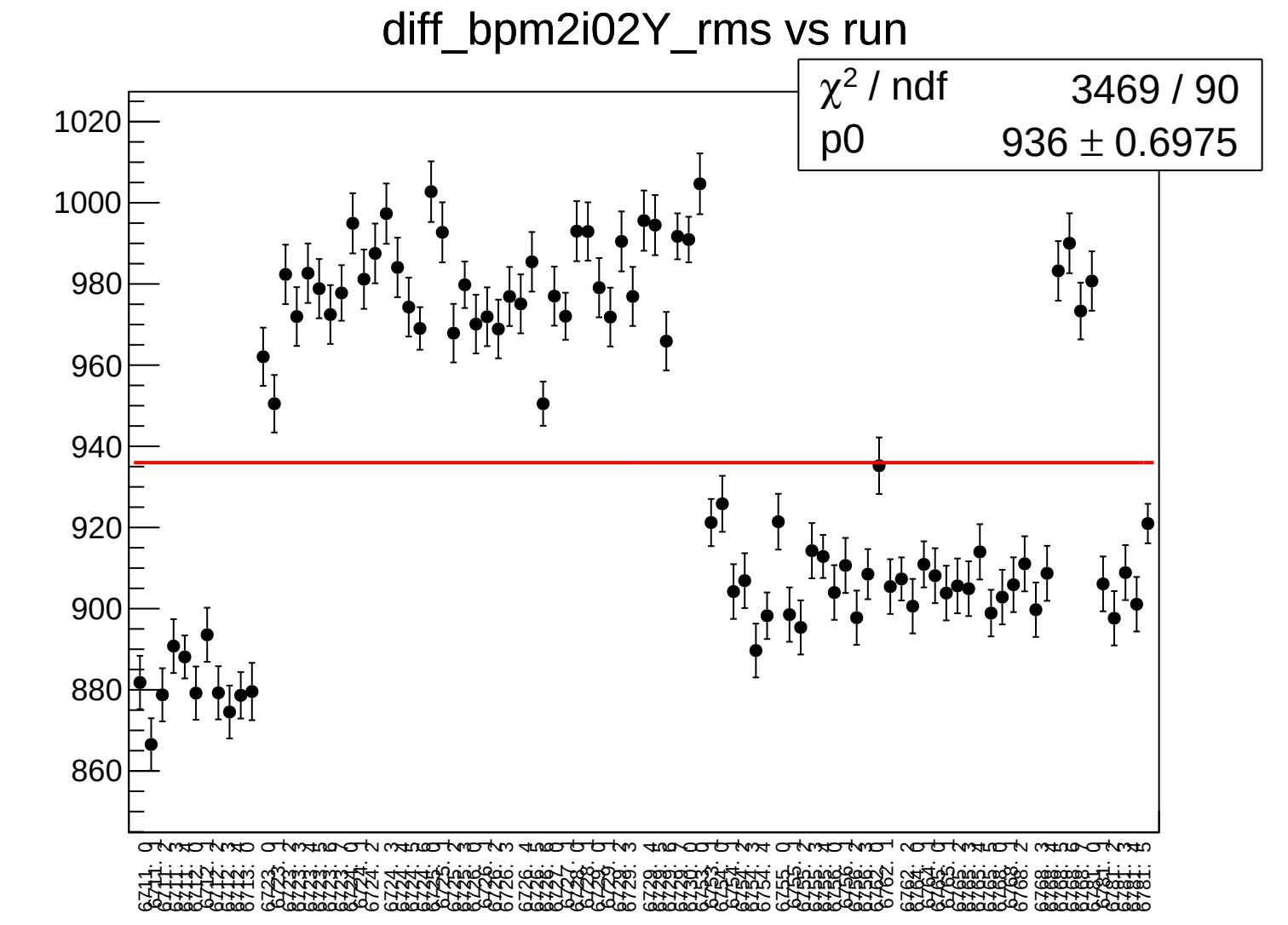

diff_bpm2i02X_mean vs run
χ² / ndf 262.3 / 90
p0 −47.61 ± 0.9906
0
−20
−40
−60
−80
pull
Entries 91
Mean −880.9
Std Dev 0
4
3
2
1
0
−1
−2
−3

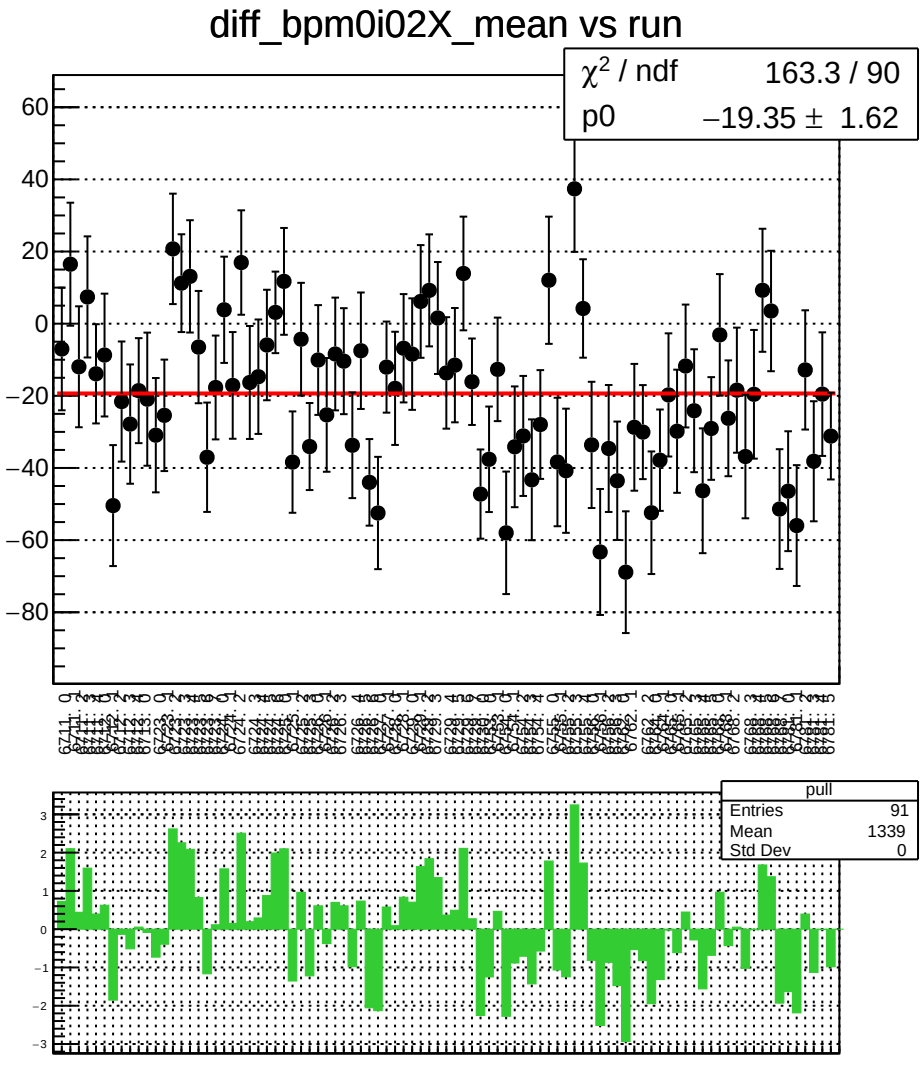

pull1D
Entries 91
Mean 0.02374
Std Dev 1.698
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

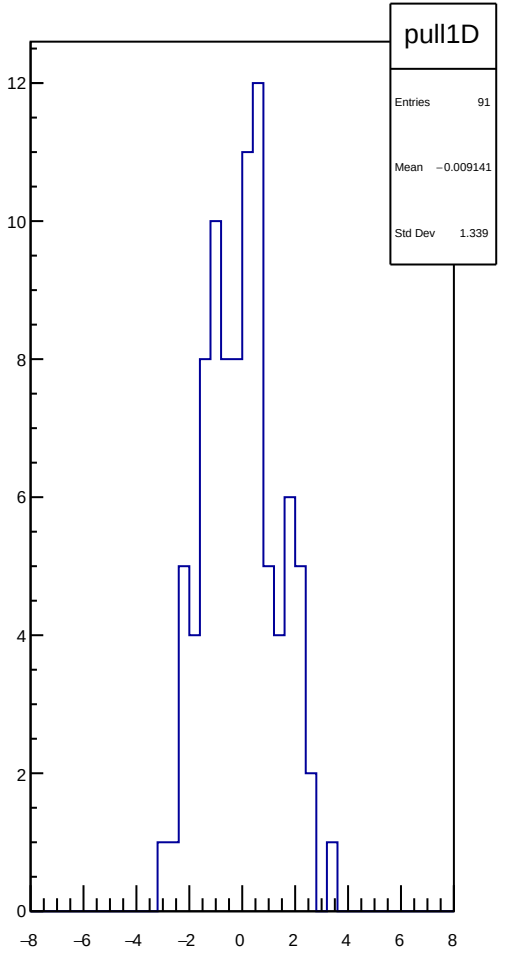

diff_bpm2i02X_rms vs run
χ² / ndf 2540 / 90
p0 940.2 ± 0.7004
1040
1020
1000
980
960
940
920
900
880
860

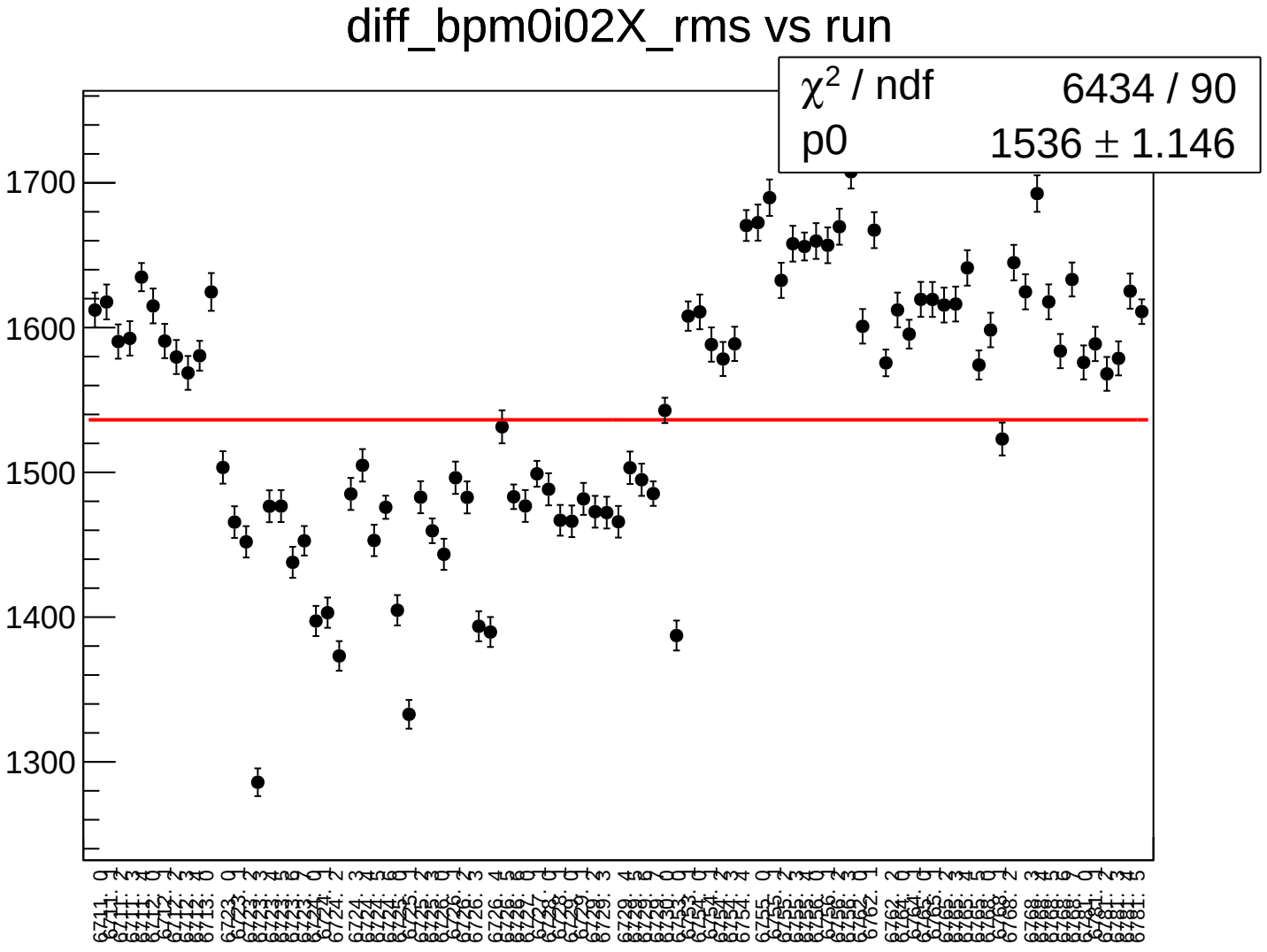

diff_bpm2i02Y_mean vs run
χ² / ndf 481.5 / 90
p0 −14.51 ± 0.9864
pull
Entries 91
Mean −208.6
Std Dev 0

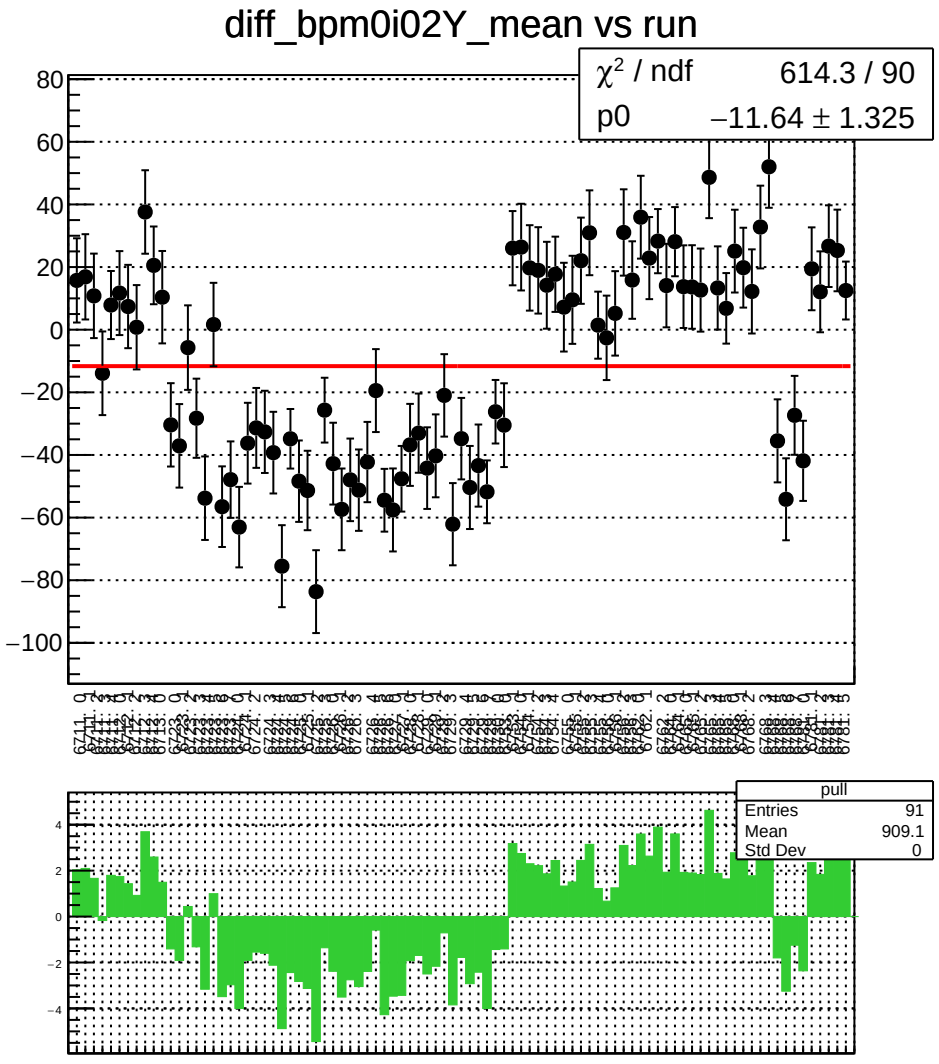

pull1D
Entries 91
Mean −0.09075
Std Dev 2.298

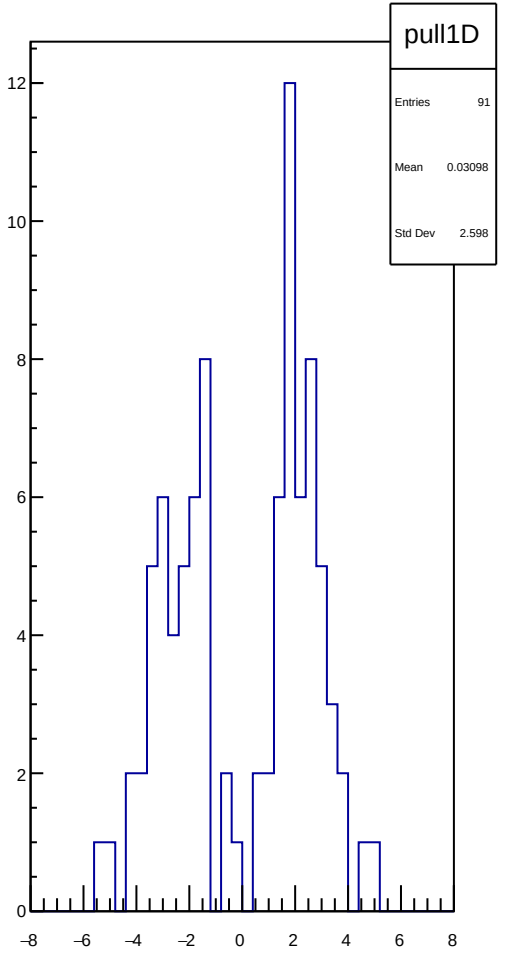

diff_bpm2i02Y_rms vs run
χ^2 / ndf 3469 / 90
p0 936 ± 0.6975
1020
1000
980
960
940
920
900
880
860

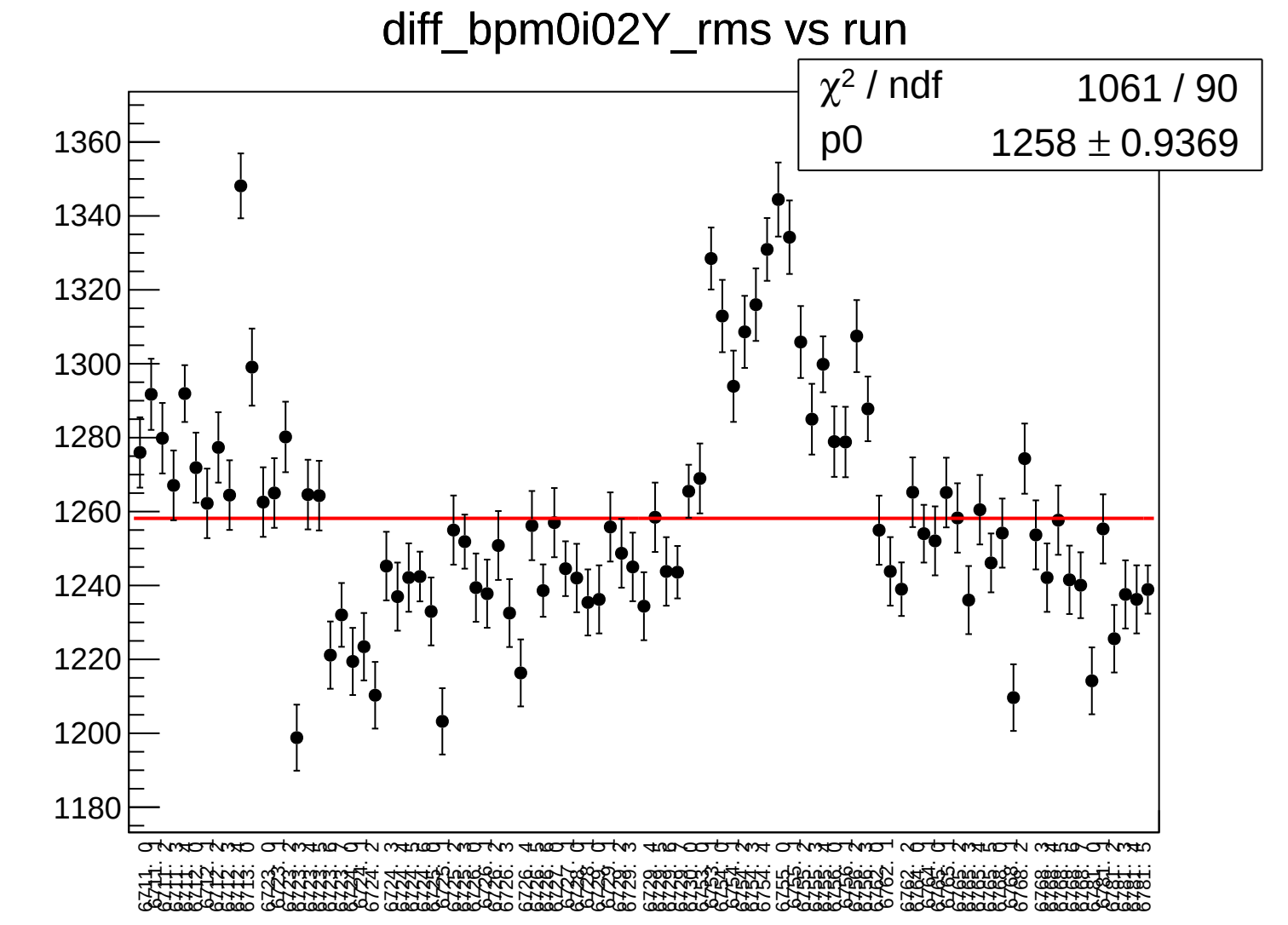

diff_bpm0i02X_mean vs run
χ² / ndf 163.3 / 90
p0 −19.35 ± 1.62
pull
Entries 91
Mean 1339
Std Dev 0

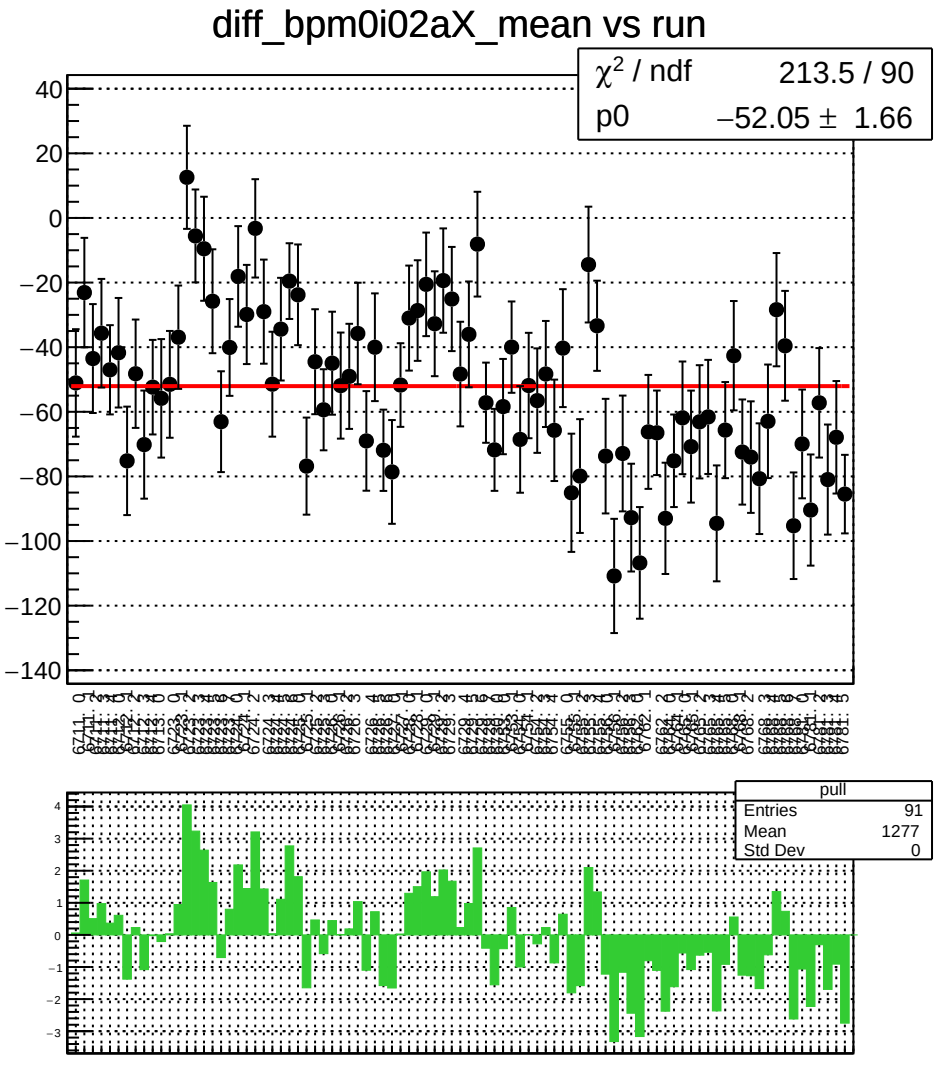

pull1D
Entries 91
Mean −0.009141
Std Dev 1.339

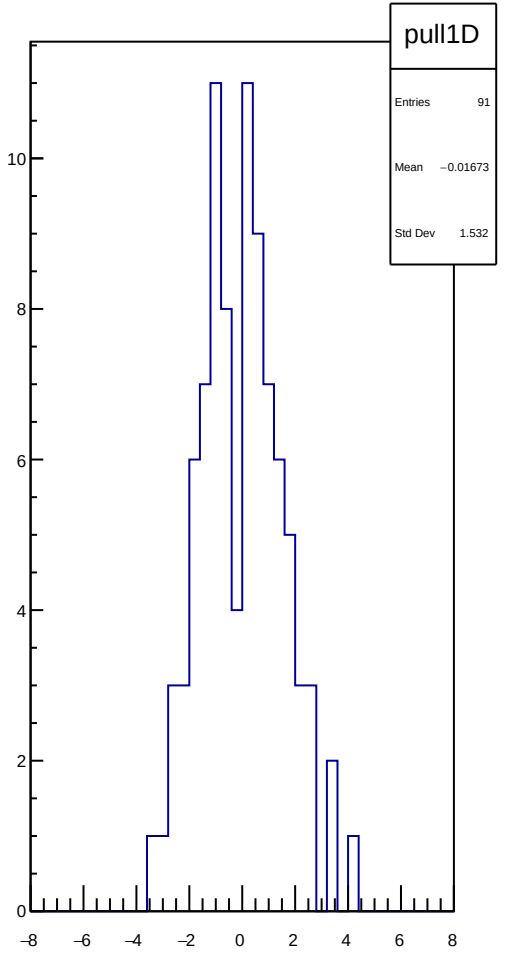

diff_bpm0i02X_rms vs run
χ² / ndf 6434 / 90
p0 1536 ± 1.146
1700
1600
1500
1400
1300

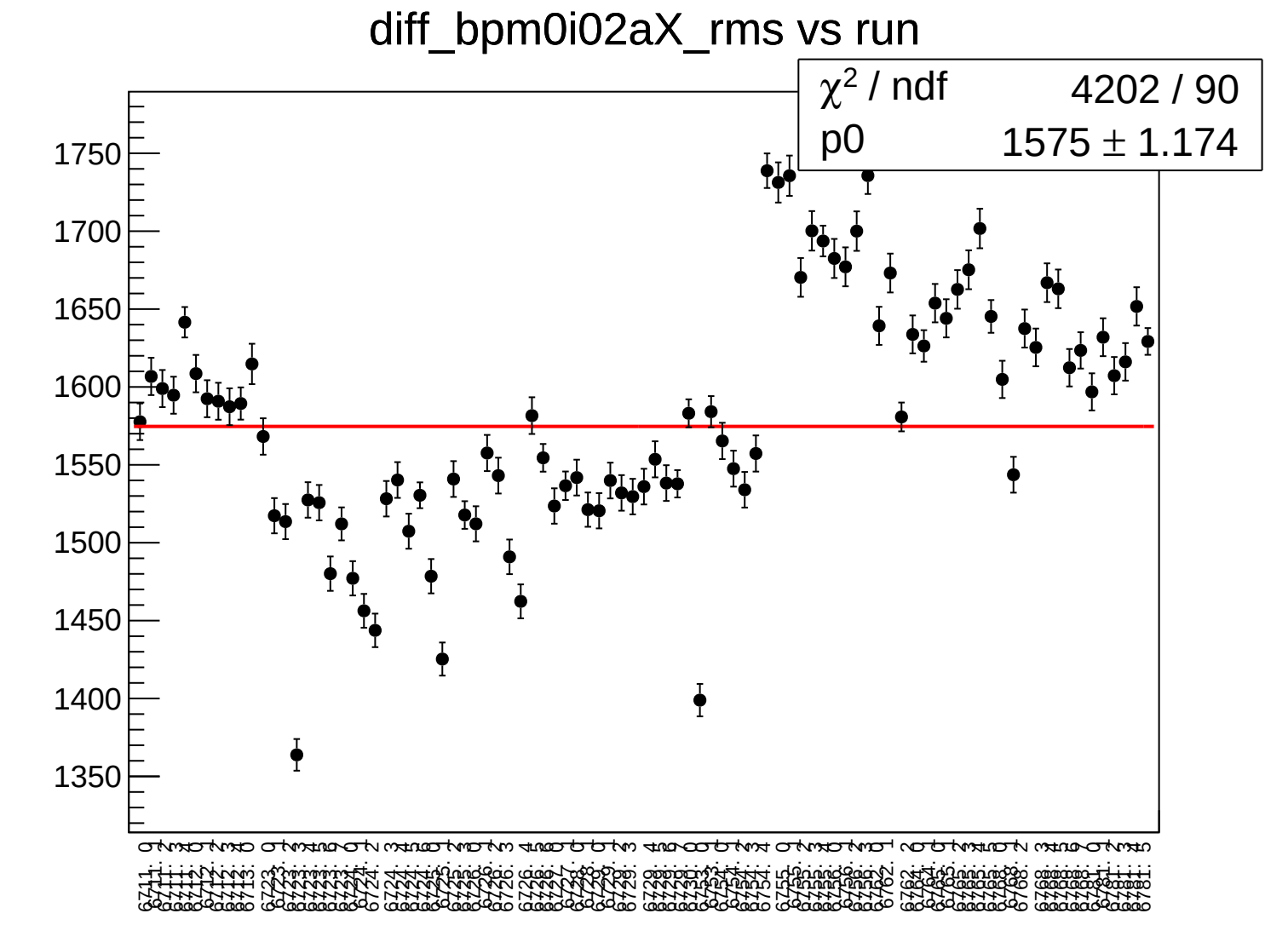

diff_bpm0i02Y_mean vs run
χ² / ndf 614.3 / 90
p0 −11.64 ± 1.325
pull
Entries 91
Mean 909.1
Std Dev 0

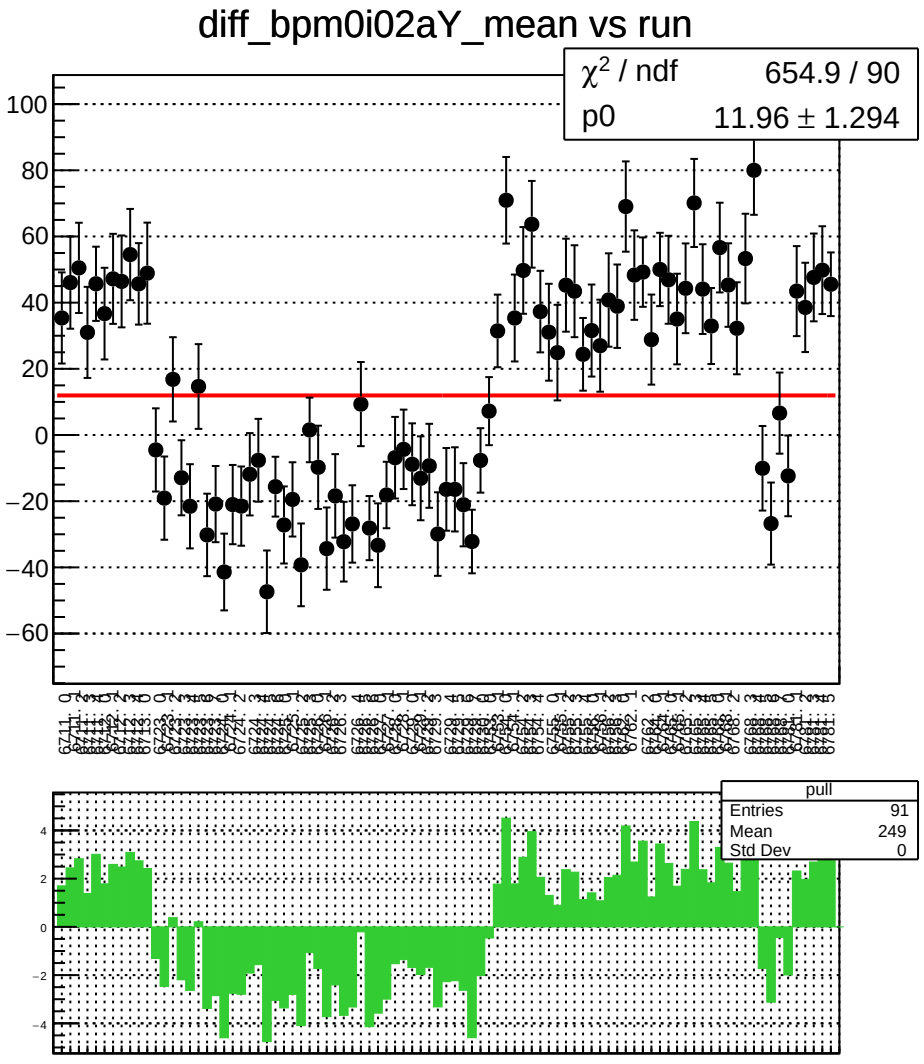

pull1D
Entries 91
Mean 0.03098
Std Dev 2.598

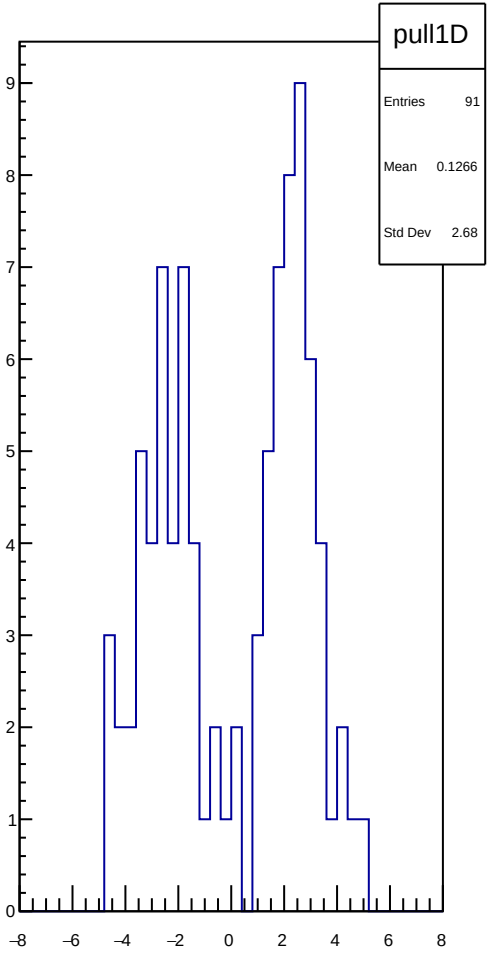

diff_bpm0i02Y_rms vs run
χ² / ndf 1061 / 90
p0 1258 ± 0.9369
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

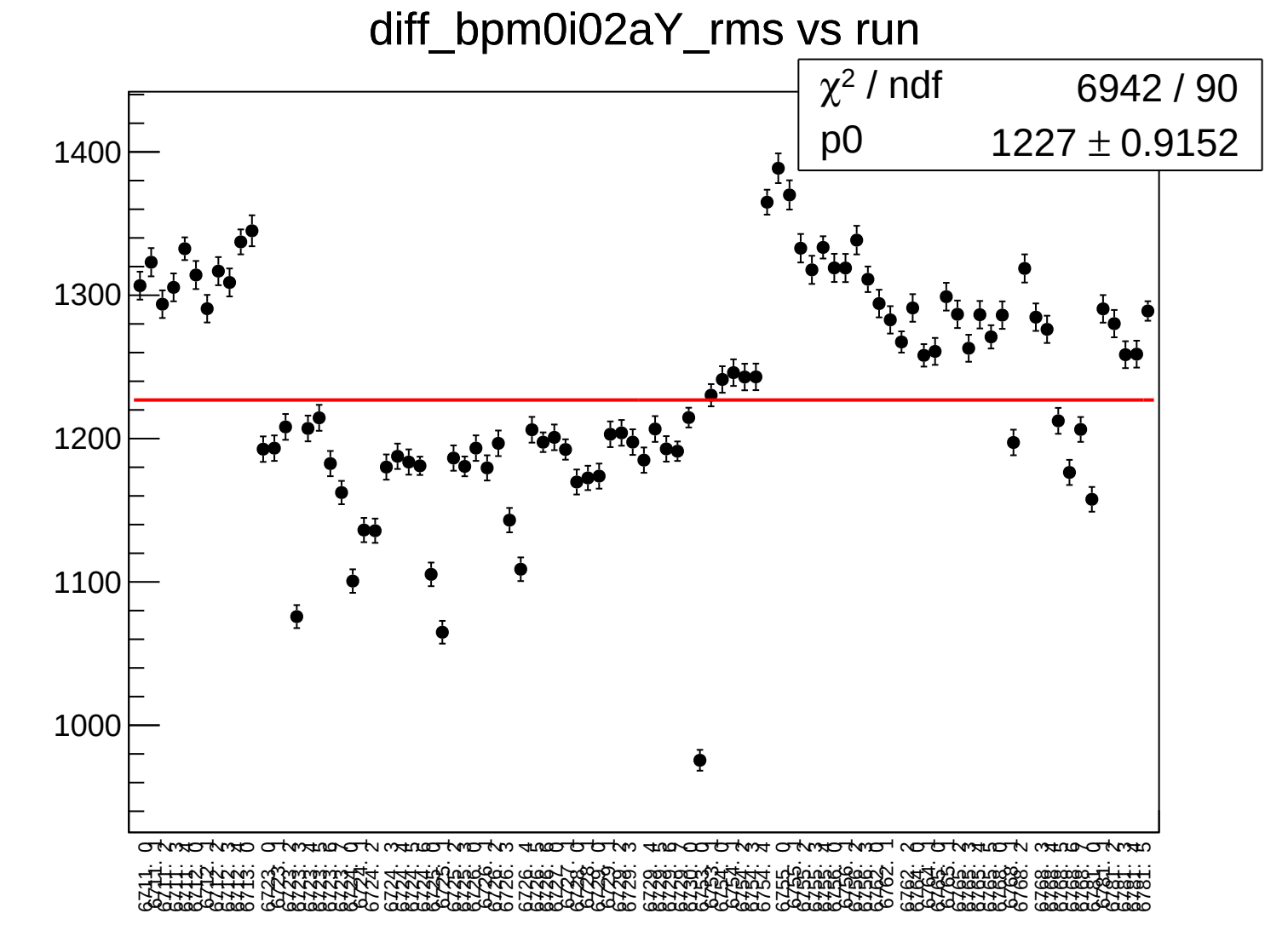

diff_bpm0i02aX_mean vs run
χ² / ndf 213.5 / 90
p0 −52.05 ± 1.66
pull
Entries 91
Mean 1277
Std Dev 0

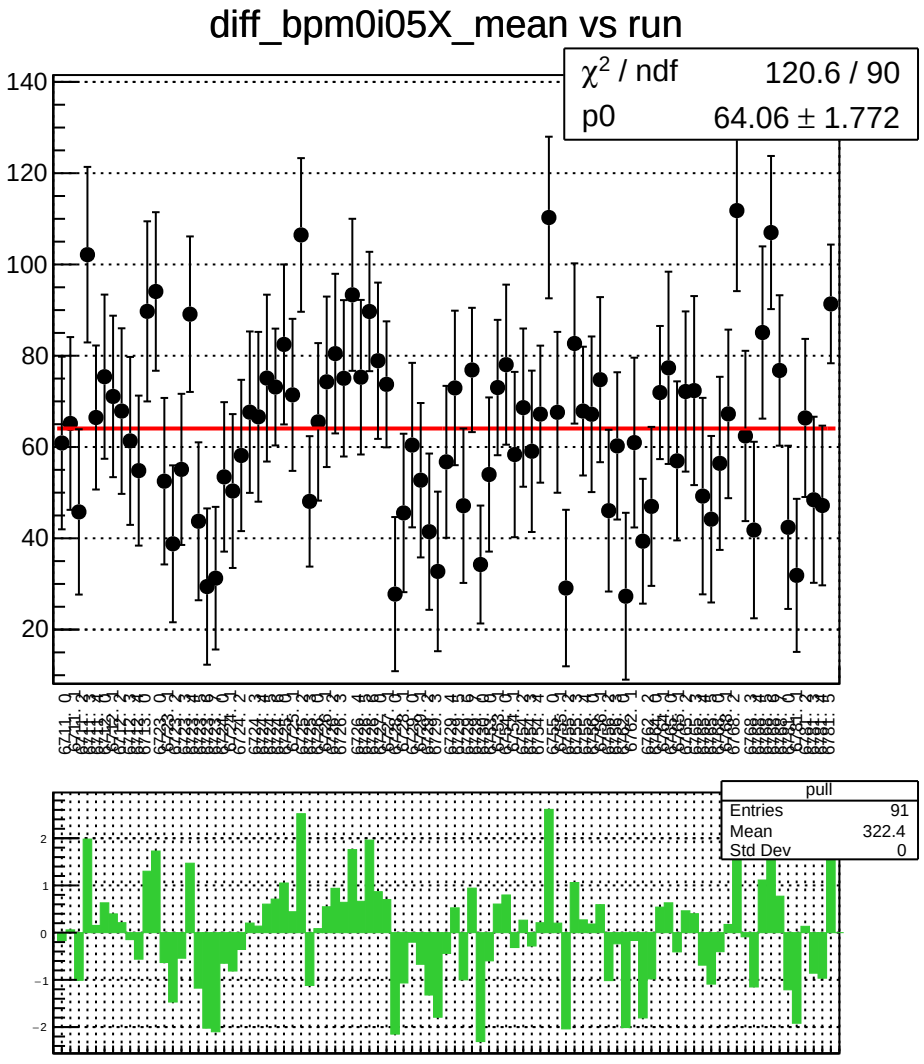

pull1D
Entries 91
Mean −0.01673
Std Dev 1.532

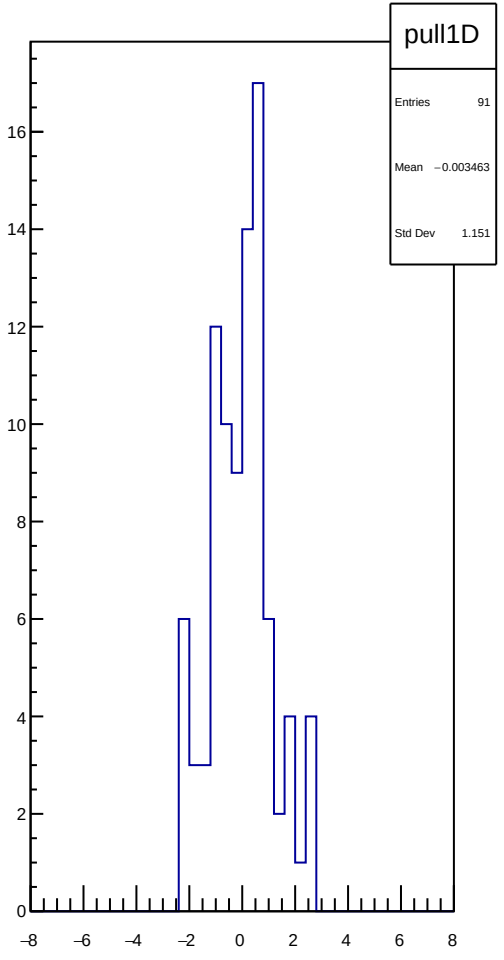

diff_bpm0i02aX_rms vs run
χ² / ndf 4202 / 90
p0 1575 ± 1.174
1750
1700
1650
1600
1550
1500
1450
1400
1350

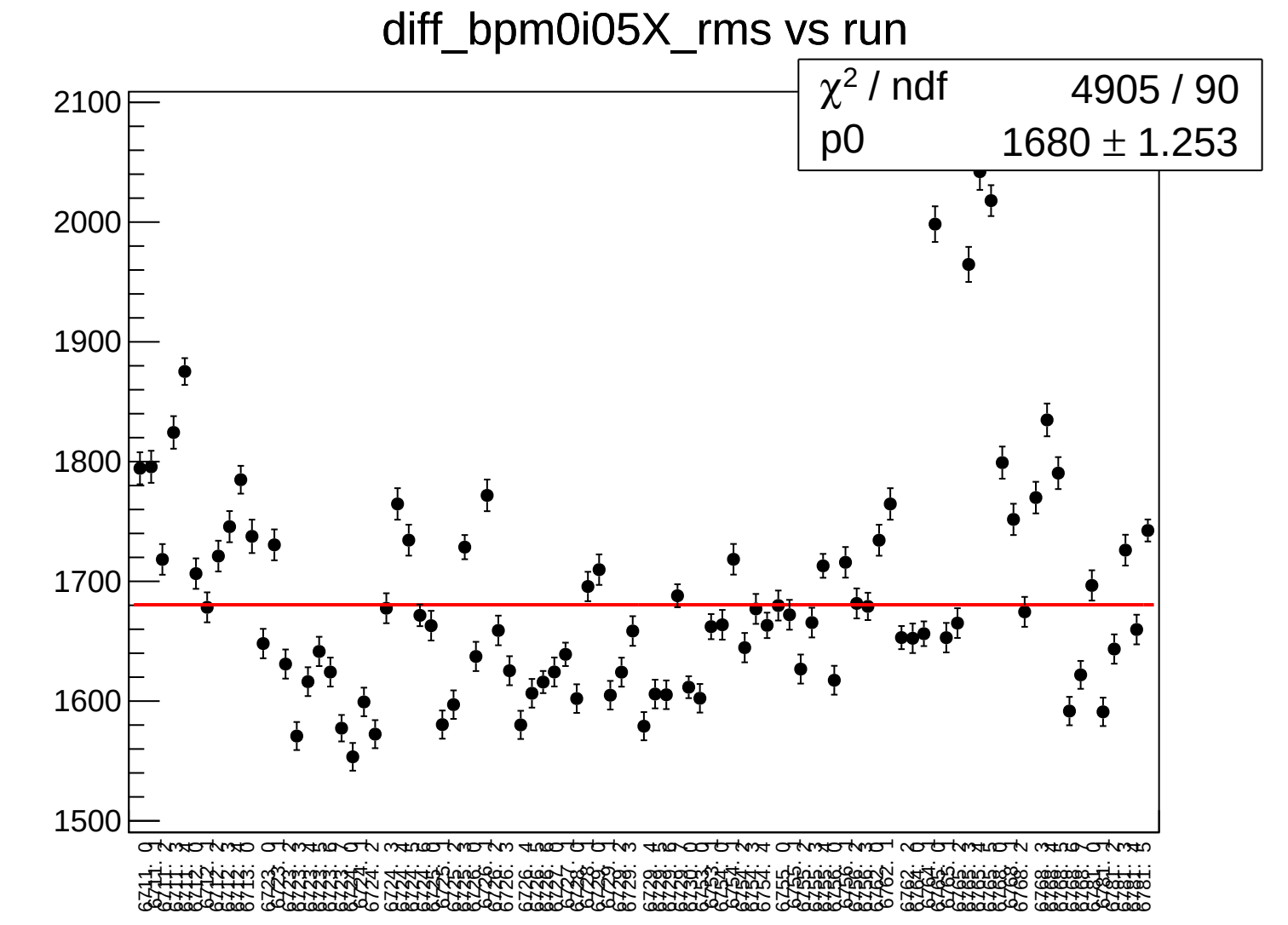

diff_bpm0i02aY_mean vs run
χ² / ndf 654.9 / 90
p0 11.96 ± 1.294
pull
Entries 91
Mean 249
Std Dev 0

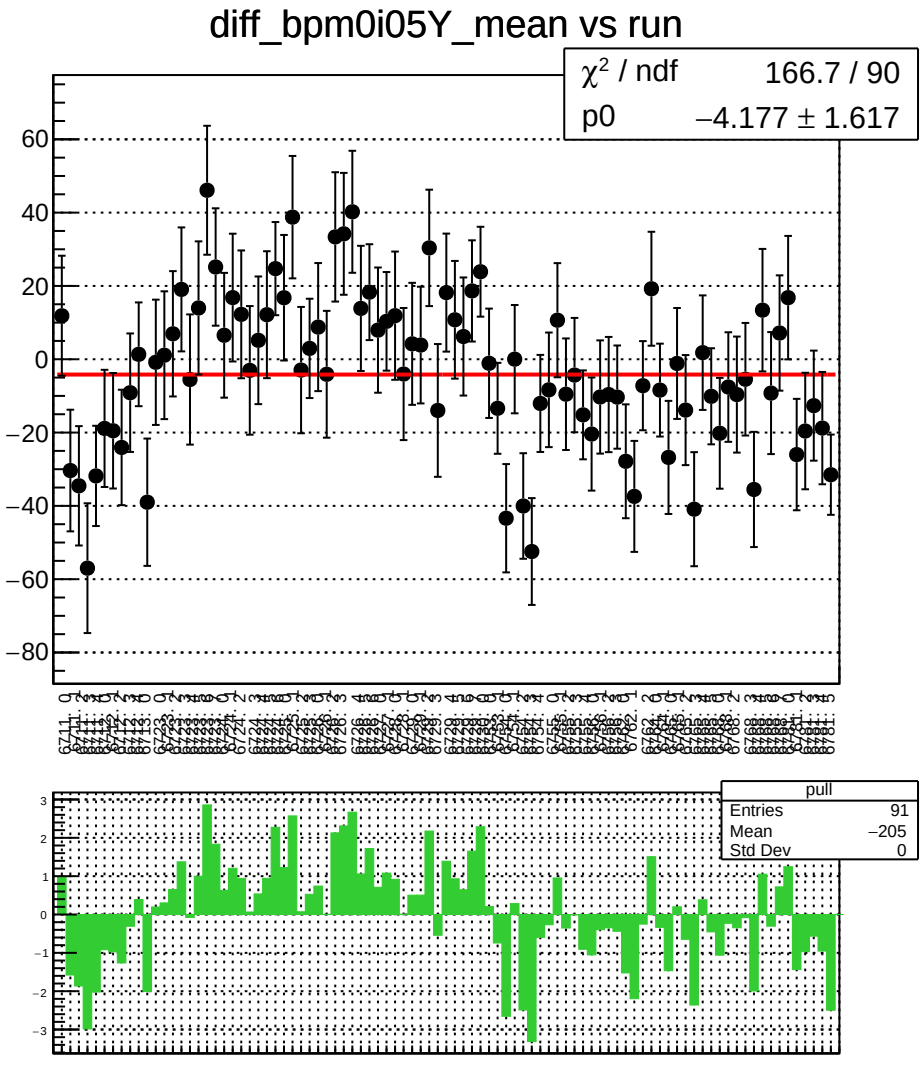

pull1D
Entries 91
Mean 0.1266
Std Dev 2.68

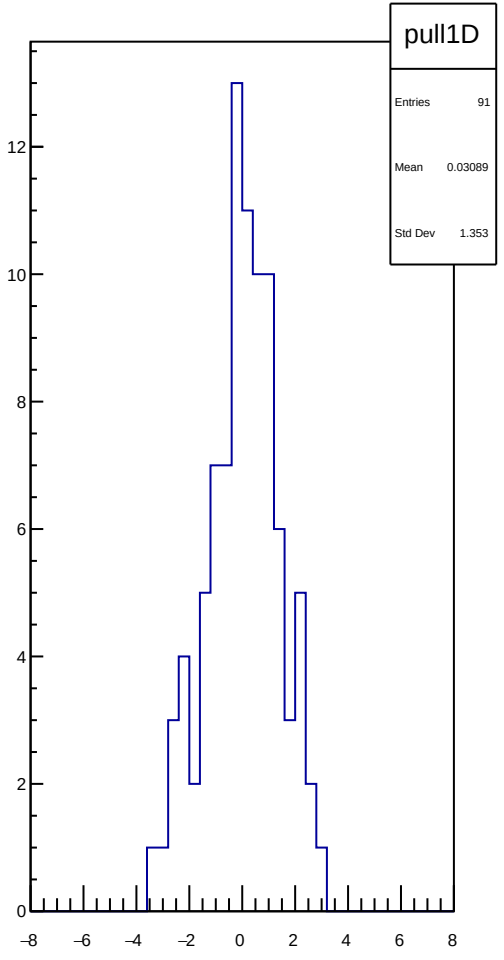

diff_bpm0i02aY_rms vs run
χ² / ndf 6942 / 90
p0 1227 ± 0.9152
1400
1300
1200
1100
1000

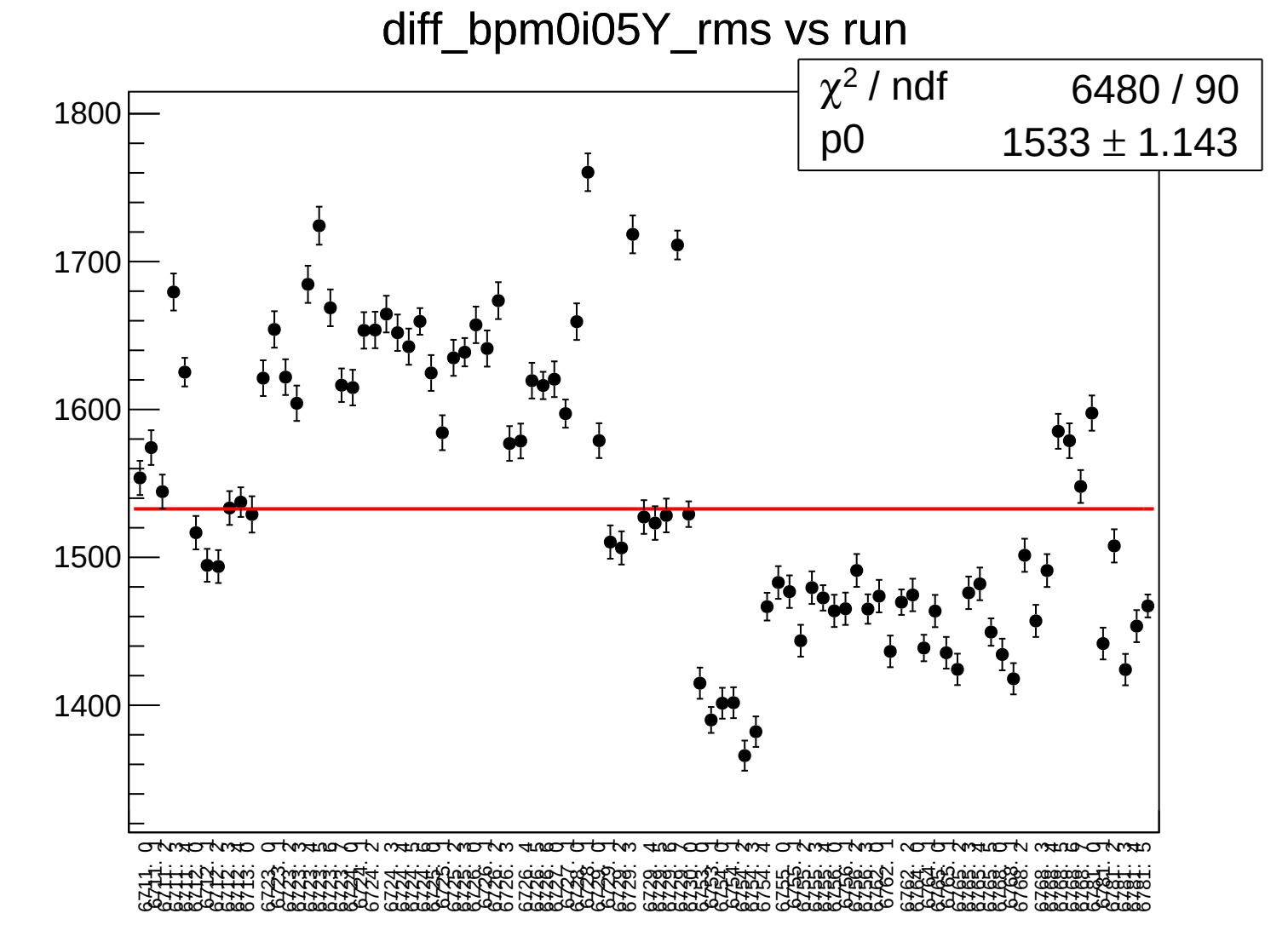

diff_bpm0i05X_mean vs run
χ^2 / ndf 120.6 / 90
p0 64.06 ± 1.772
pull
Entries 91
Mean 322.4
Std Dev 0

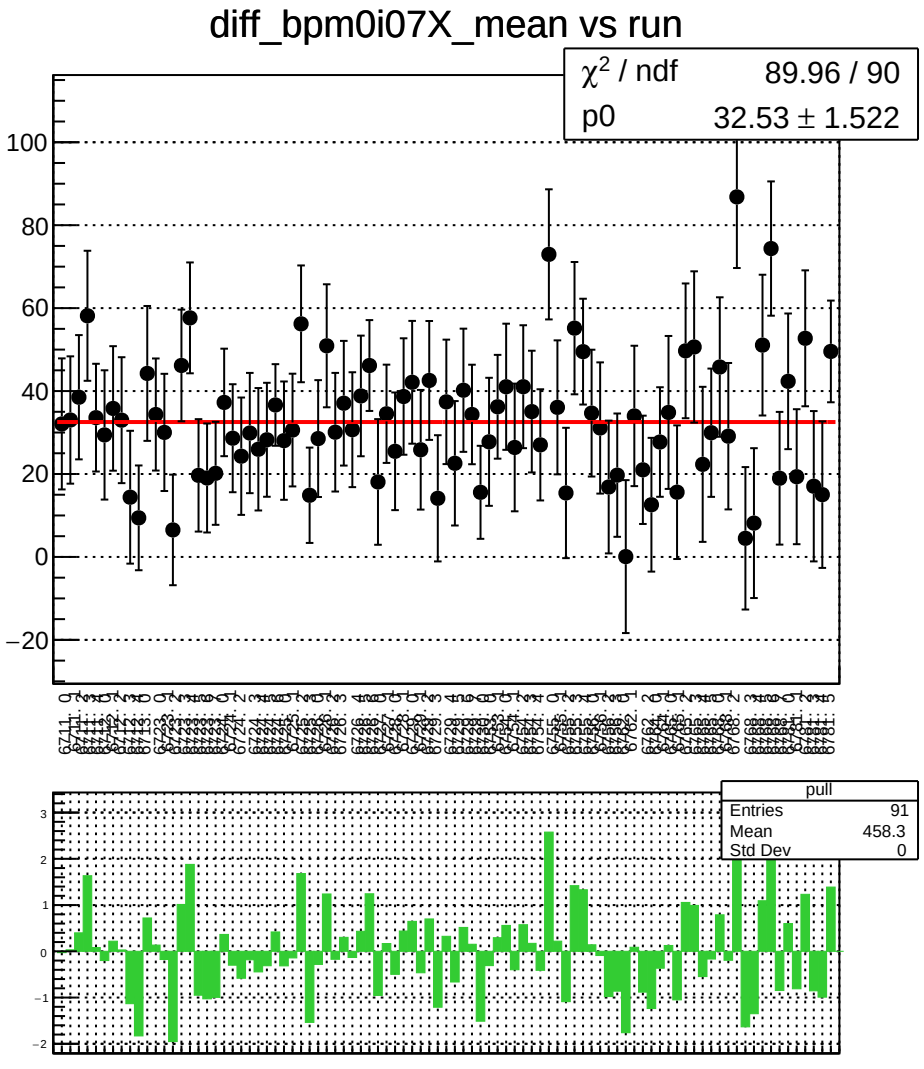

pull1D
Entries 91
Mean −0.003463
Std Dev 1.151

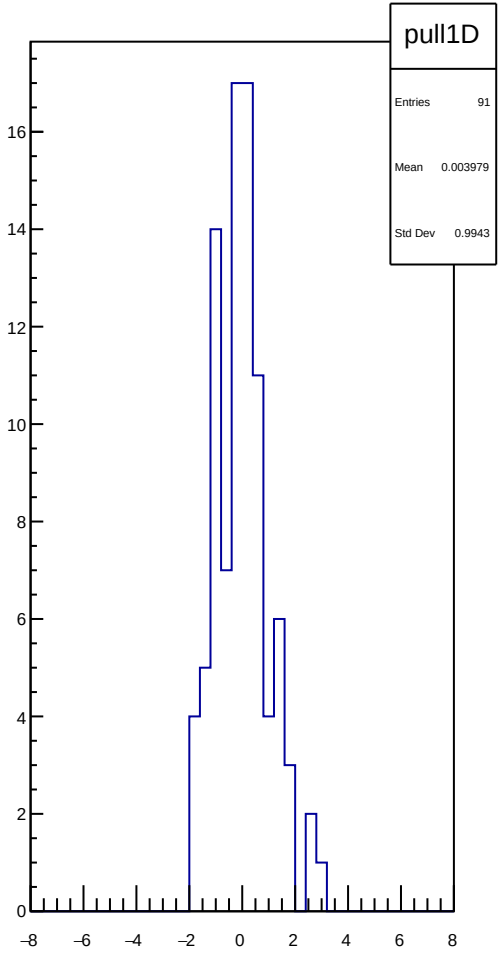

diff_bpm0i05X_rms vs run
χ² / ndf 4905 / 90
p0 1680 ± 1.253
2100
2000
1900
1800
1700
1600
1500

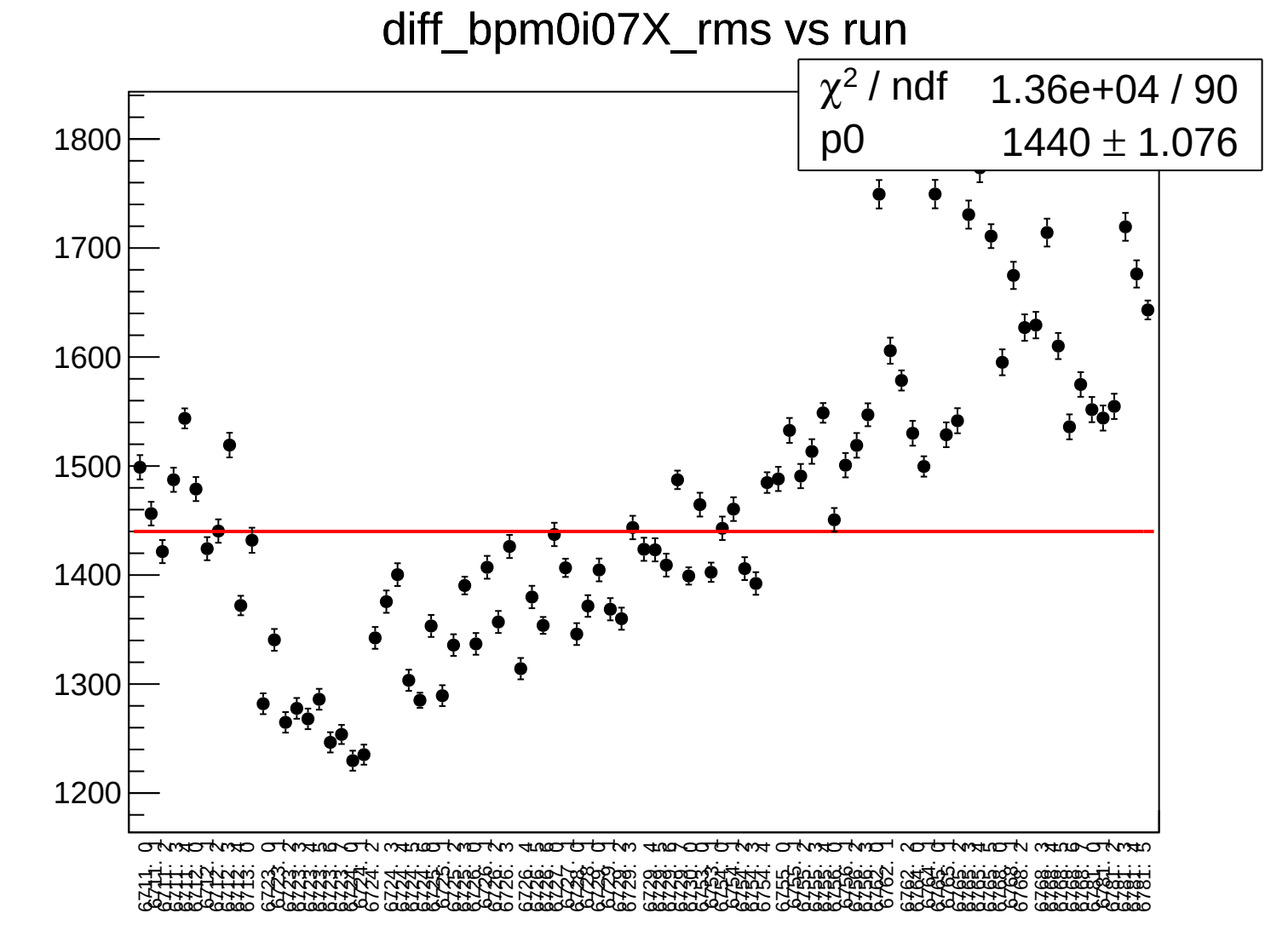

diff_bpm0i05Y_mean vs run
χ² / ndf 166.7 / 90
p0 −4.177 ± 1.617
pull
Entries 91
Mean −205
Std Dev 0

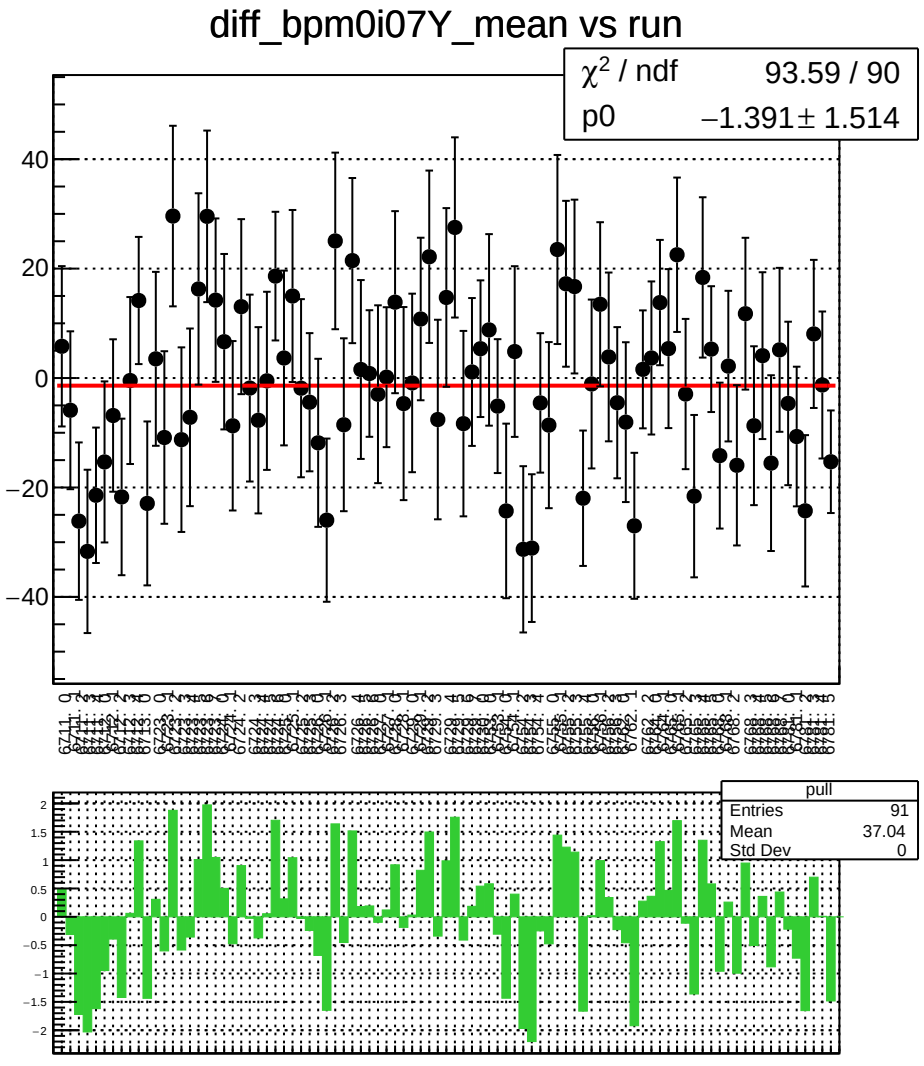

pull1D
Entries 91
Mean 0.03089
Std Dev 1.353

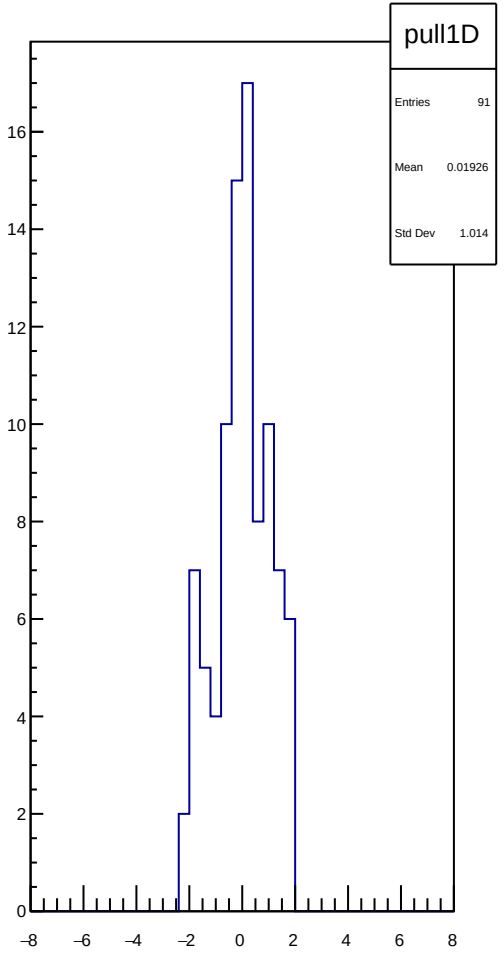

diff_bpm0i05Y_rms vs run
χ² / ndf 6480 / 90
p0 1533 ± 1.143
1800
1700
1600
1500
1400

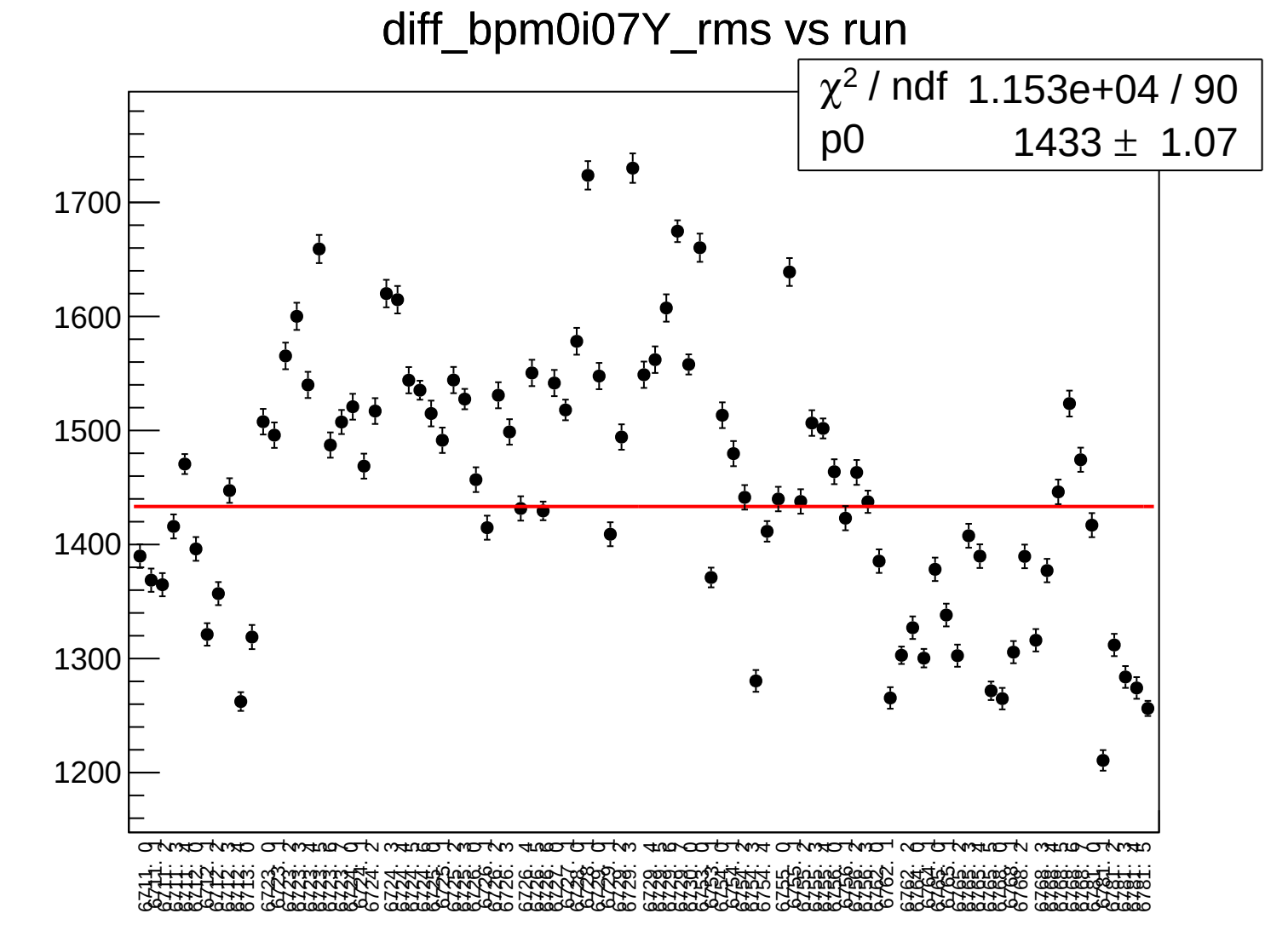

diff_bpm0i07X_mean vs run
χ^2 / ndf 89.96 / 90
p0 32.53 ± 1.522
pull
Entries 91
Mean 458.3
Std Dev 0

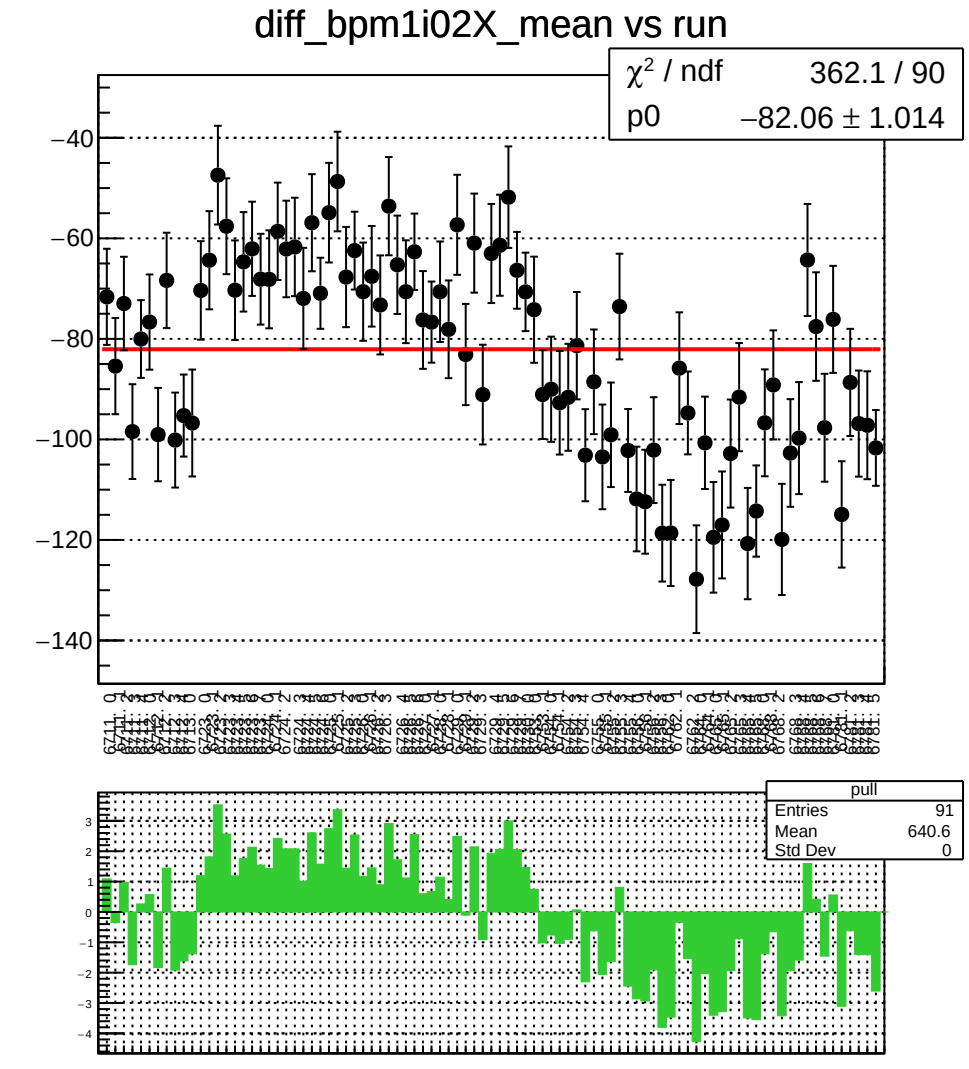

pull1D
Entries 91
Mean 0.003979
Std Dev 0.9943

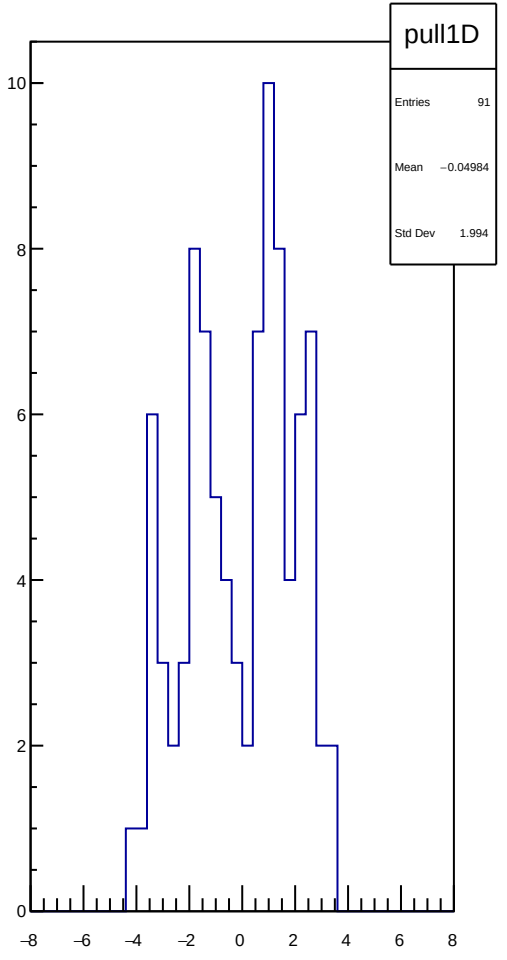

diff_bpm0i07X_rms vs run
χ² / ndf 1.36e+04 / 90
p0 1440 ± 1.076
1800
1700
1600
1500
1400
1300
1200

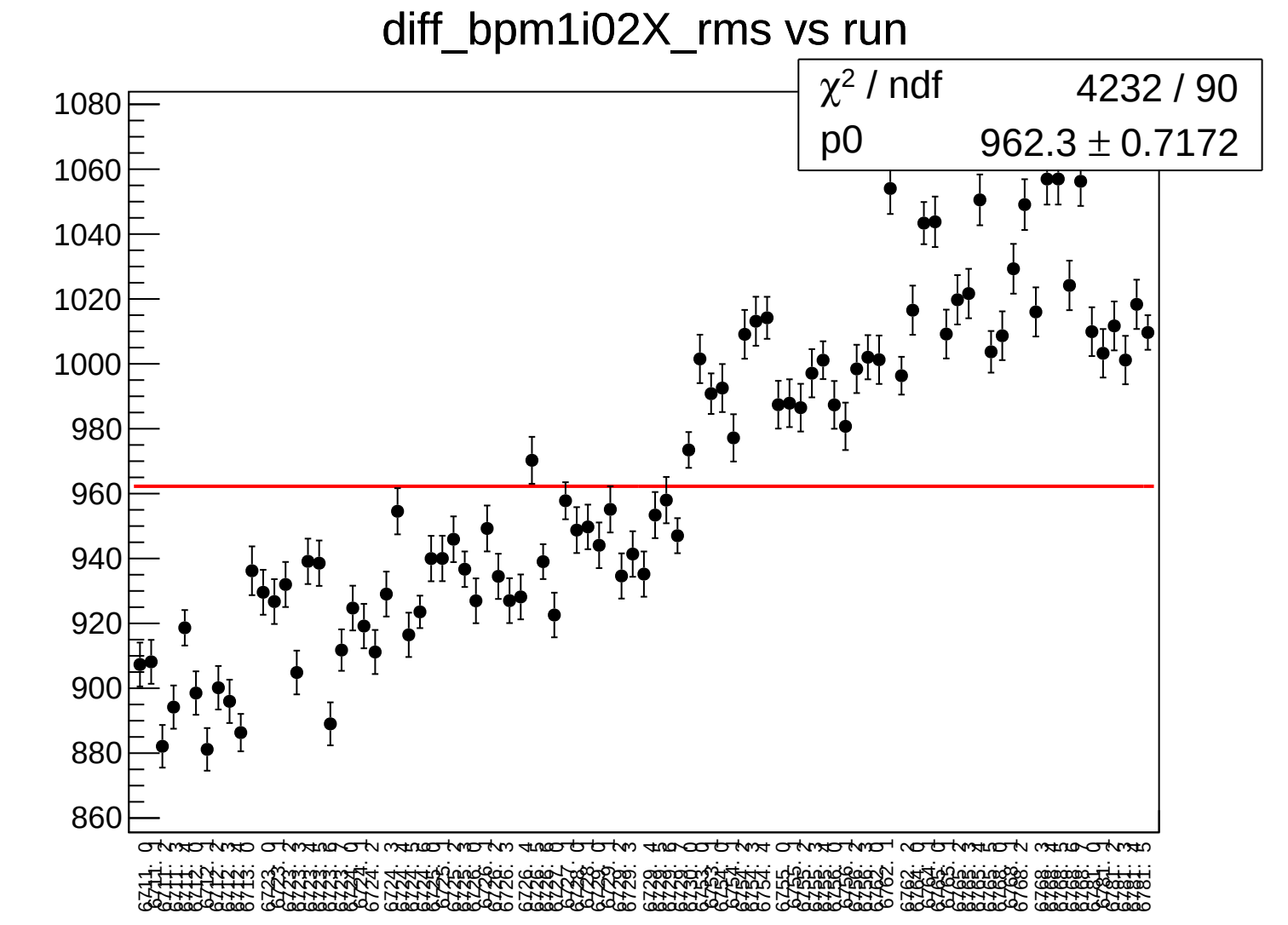

diff_bpm0i07Y_mean vs run
χ² / ndf 93.59 / 90
p0 −1.391 ± 1.514
pull
Entries 91
Mean 37.04
Std Dev 0

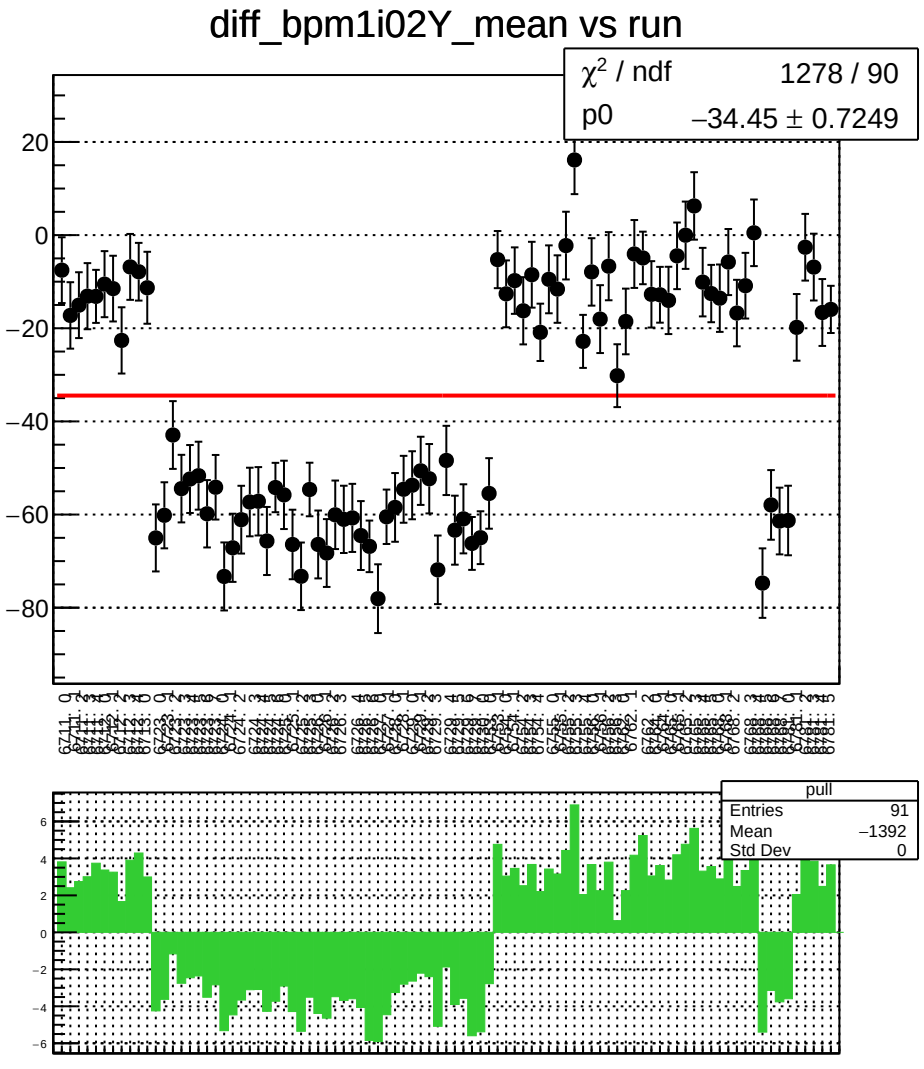

pull1D
Entries 91
Mean 0.01926
Std Dev 1.014

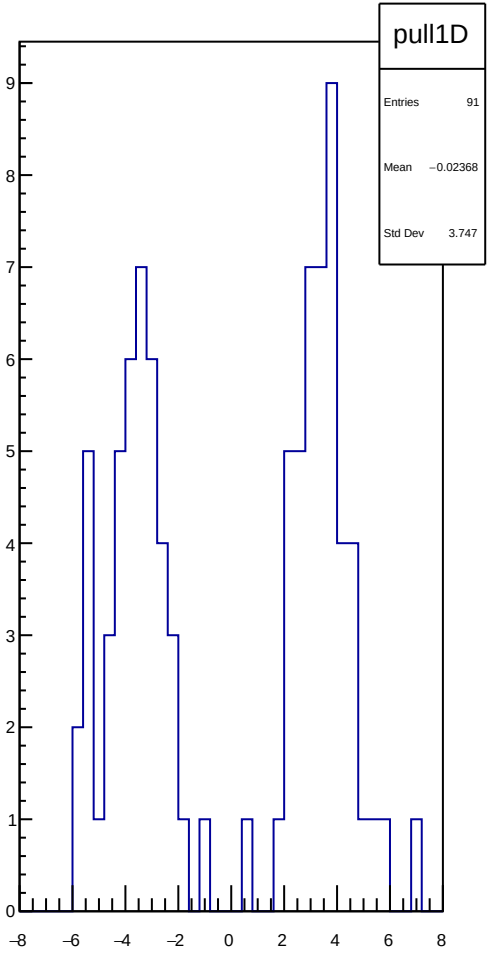

diff_bpm0i07Y_rms vs run
χ² / ndf 1.153e+04 / 90
p0 1433 ± 1.07
1700
1600
1500
1400
1300
1200

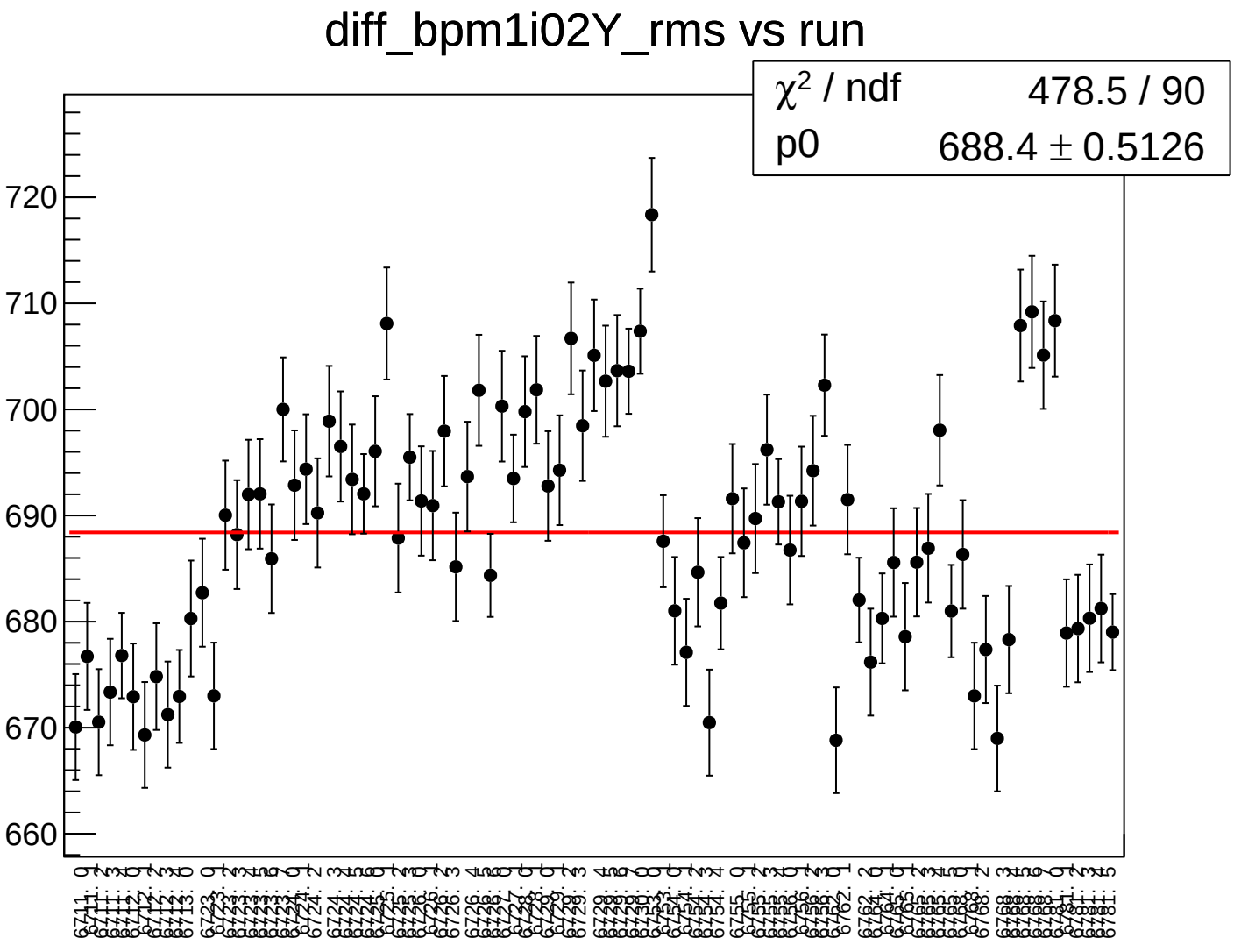

diff_bpm1i02X_mean vs run
χ² / ndf 362.1 / 90
p0 −82.06 ± 1.014
pull
Entries 91
Mean 640.6
Std Dev 0

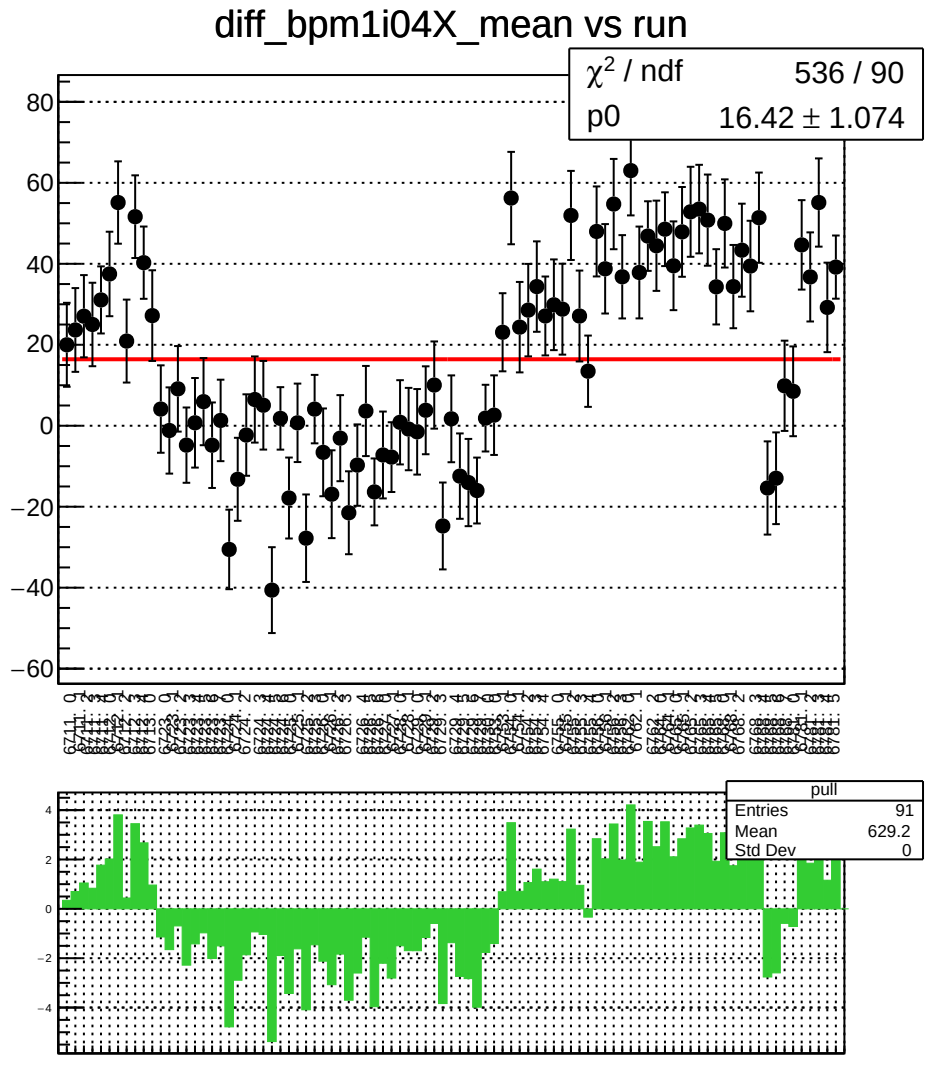

pull1D
Entries 91
Mean −0.04984
Std Dev 1.994

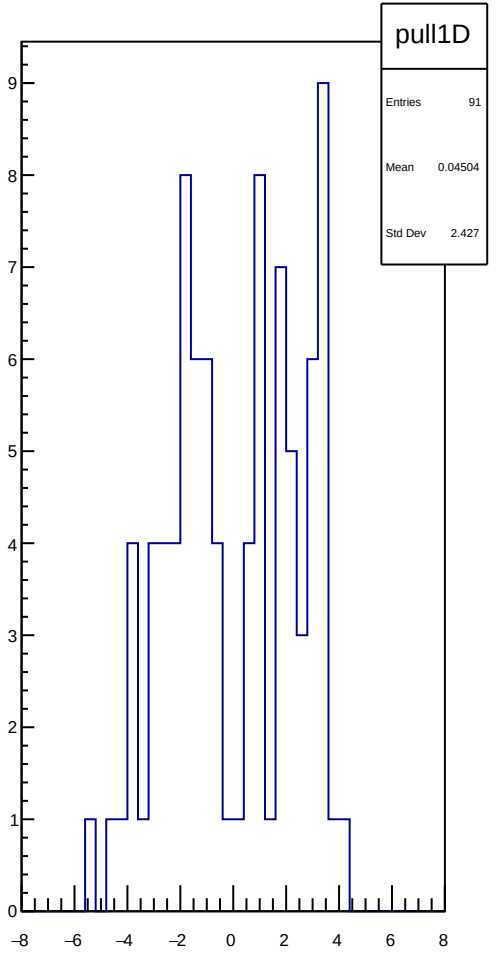

diff_bpm1i02X_rms vs run
χ² / ndf 4232 / 90
p0 962.3 ± 0.7172
1080
1060
1040
1020
1000
980
960
940
920
900
880
860

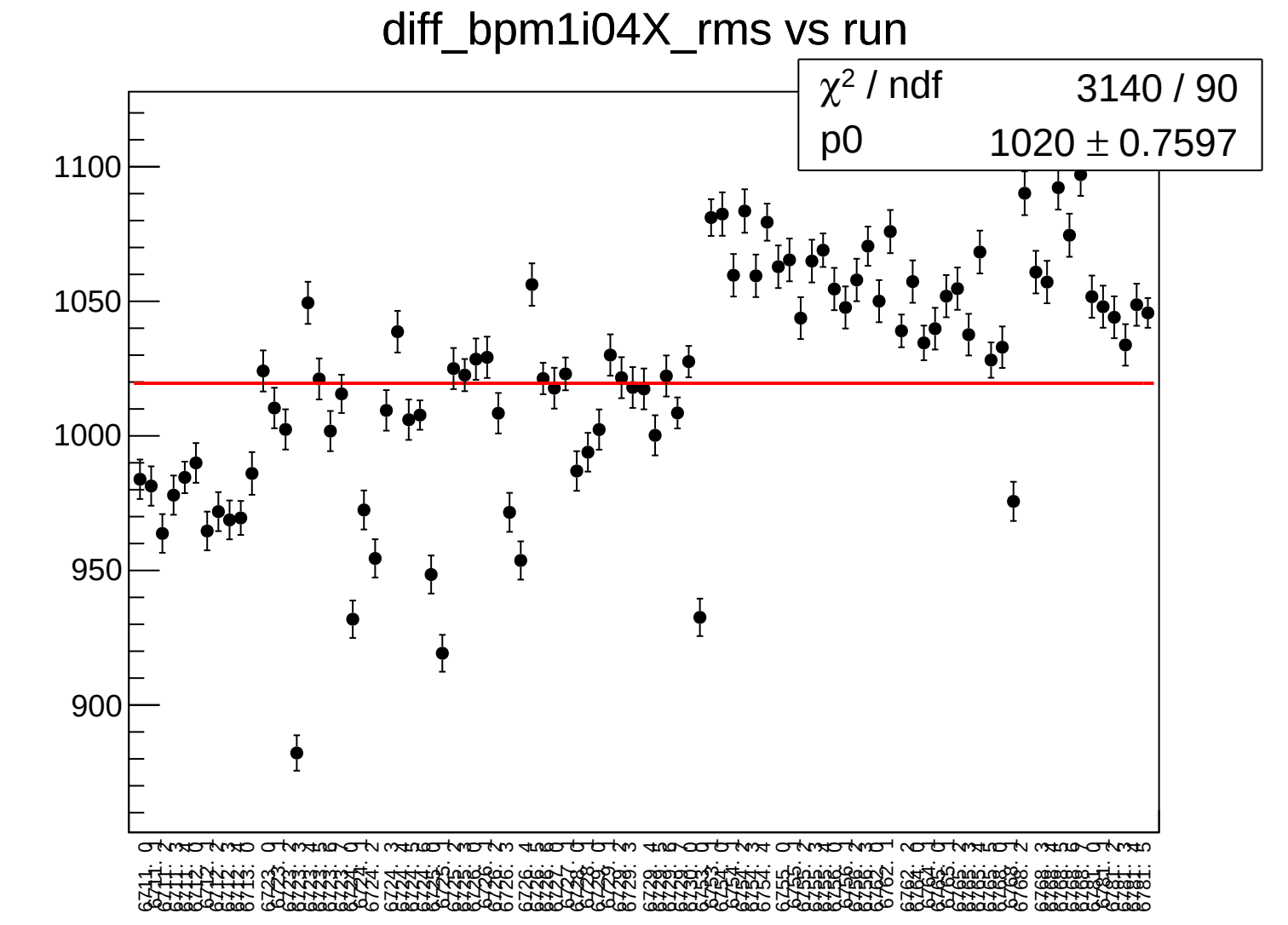

diff_bpm1i02Y_mean vs run
χ² / ndf 1278 / 90
p0 −34.45 ± 0.7249
pull
Entries 91
Mean −1392
Std Dev 0

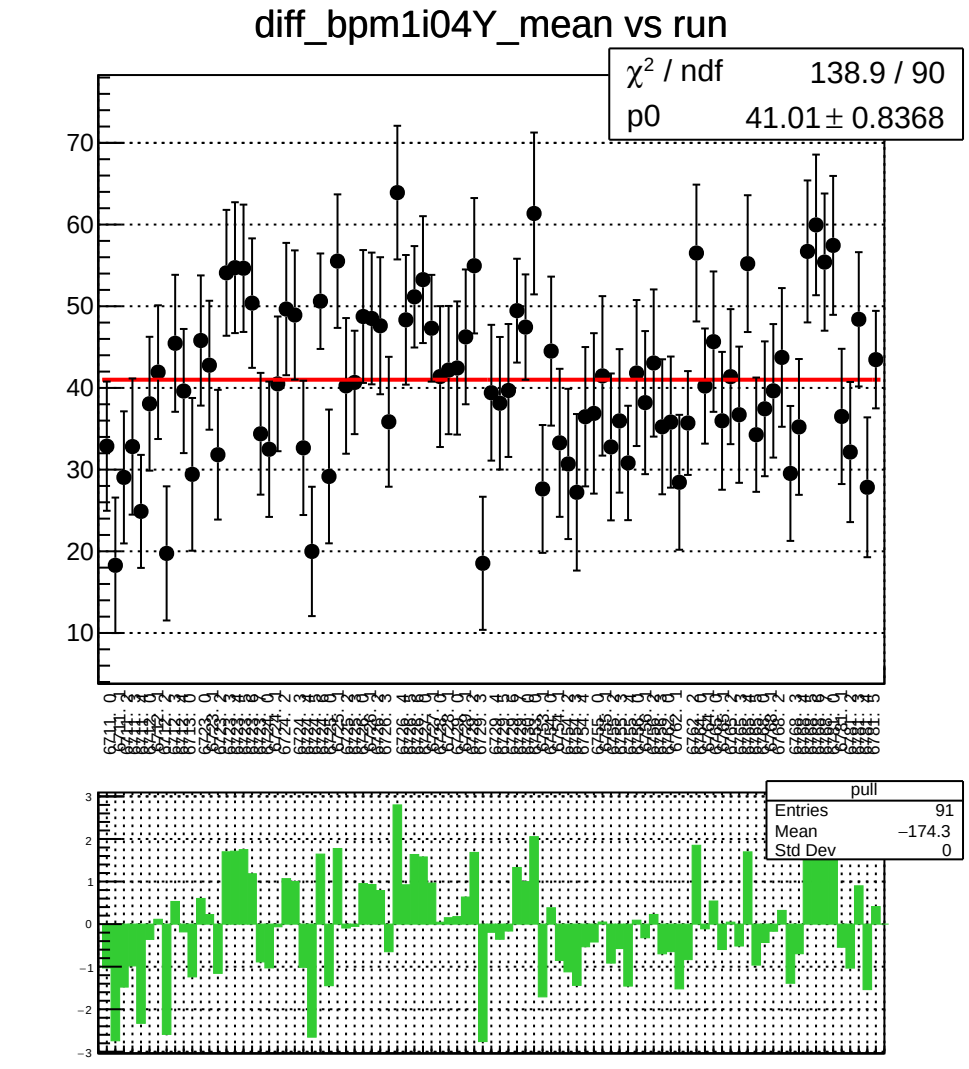

pull1D
Entries 91
Mean −0.02368
Std Dev 3.747

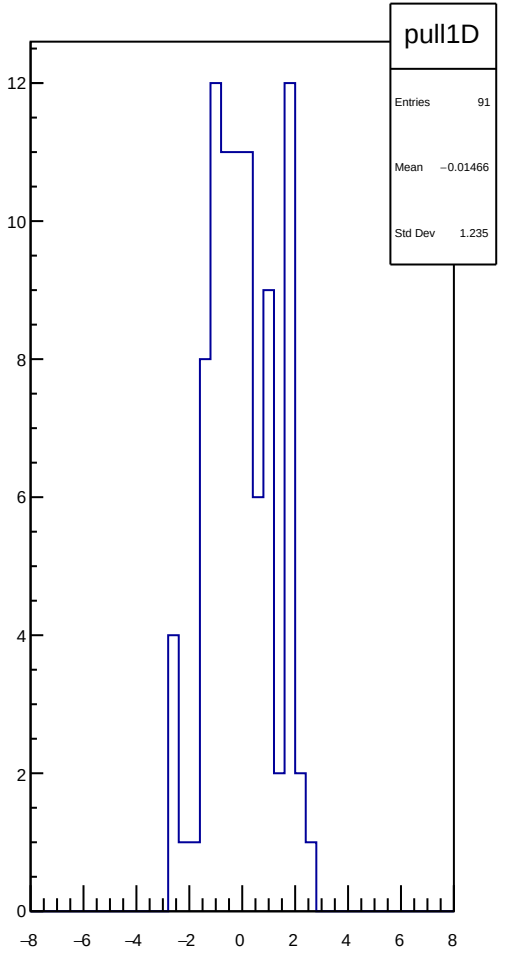

diff_bpm1i02Y_rms vs run
χ² / ndf 478.5 / 90
p0 688.4 ± 0.5126
720
710
700
690
680
670
660

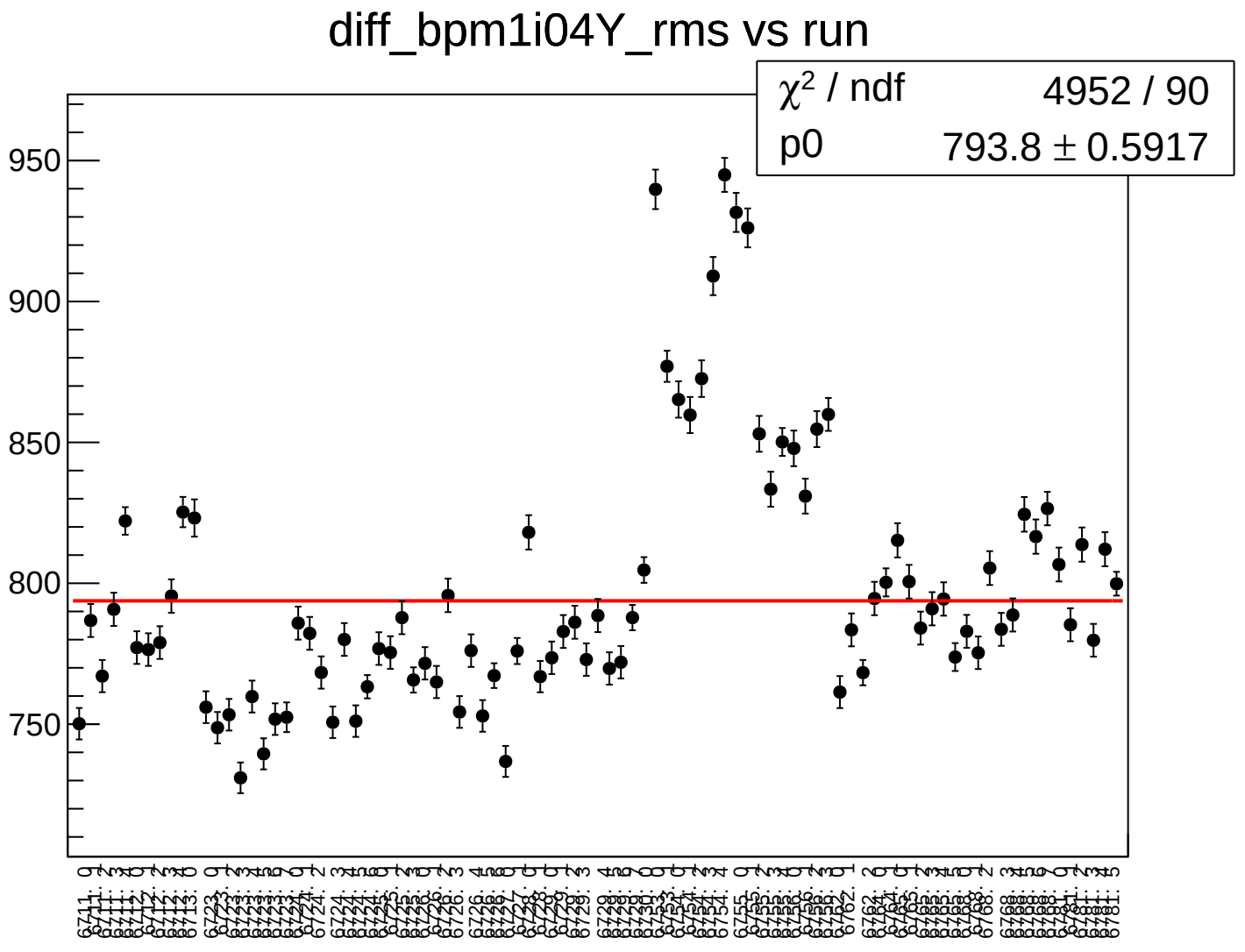

diff_bpm1i04X_mean vs run
χ² / ndf 536 / 90
p0 16.42 ± 1.074
pull
Entries 91
Mean 629.2
Std Dev 0

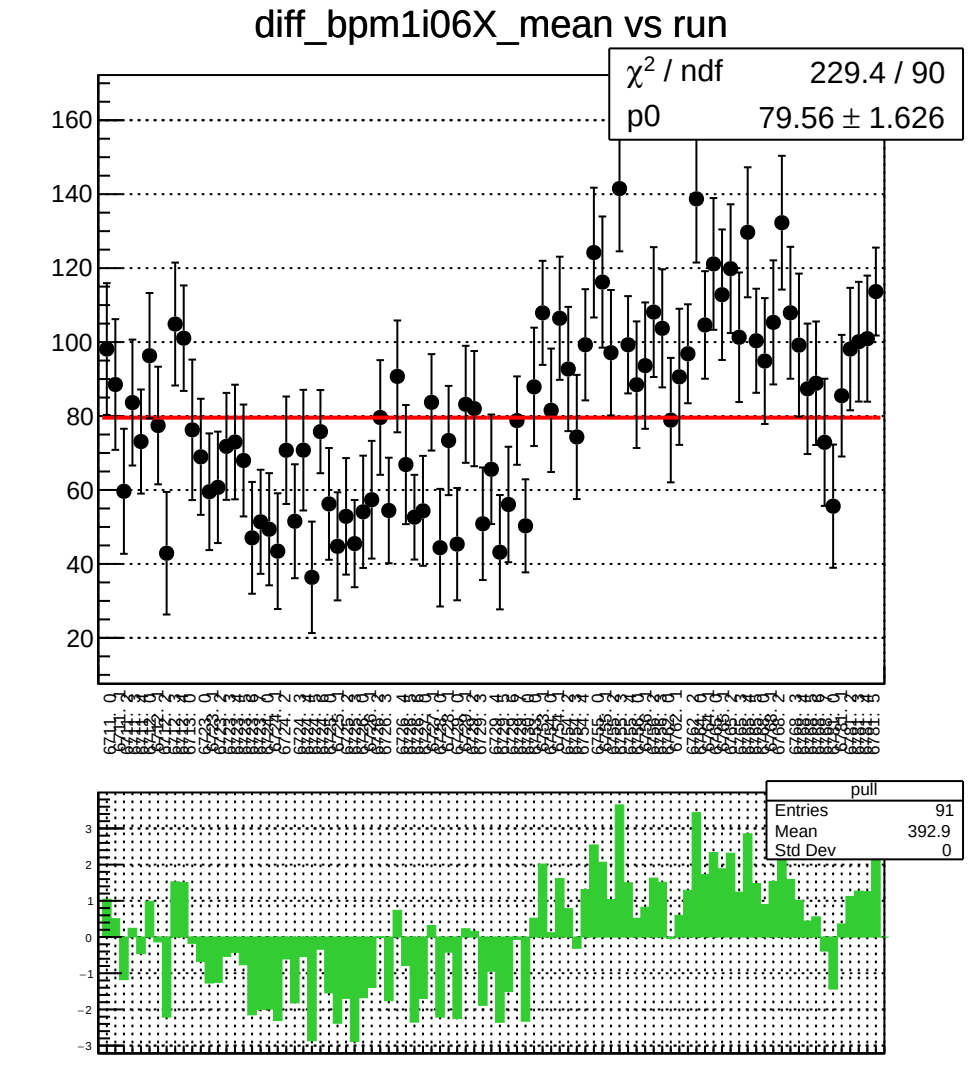

pull1D
Entries 91
Mean 0.04504
Std Dev 2.427

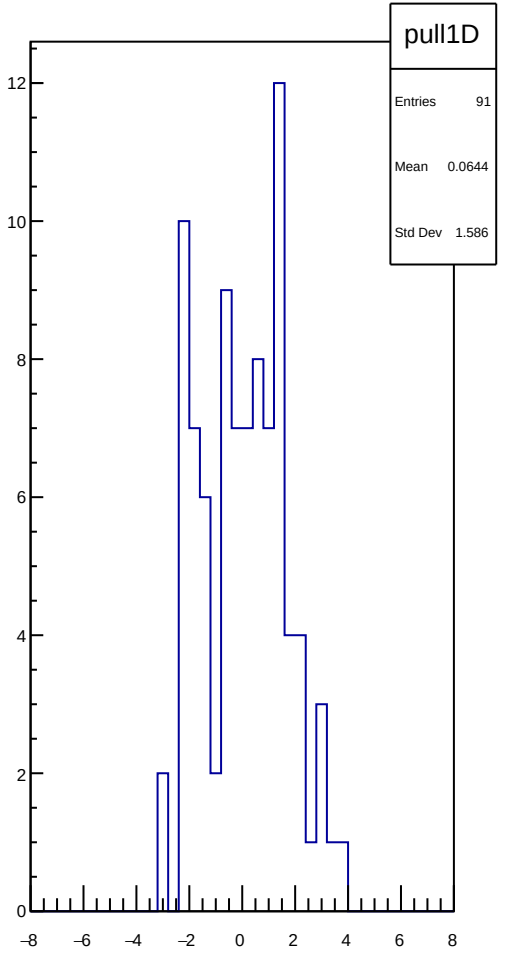

diff_bpm1i04X_rms vs run
χ² / ndf 3140 / 90
p0 1020 ± 0.7597
1100
1050
1000
950
900

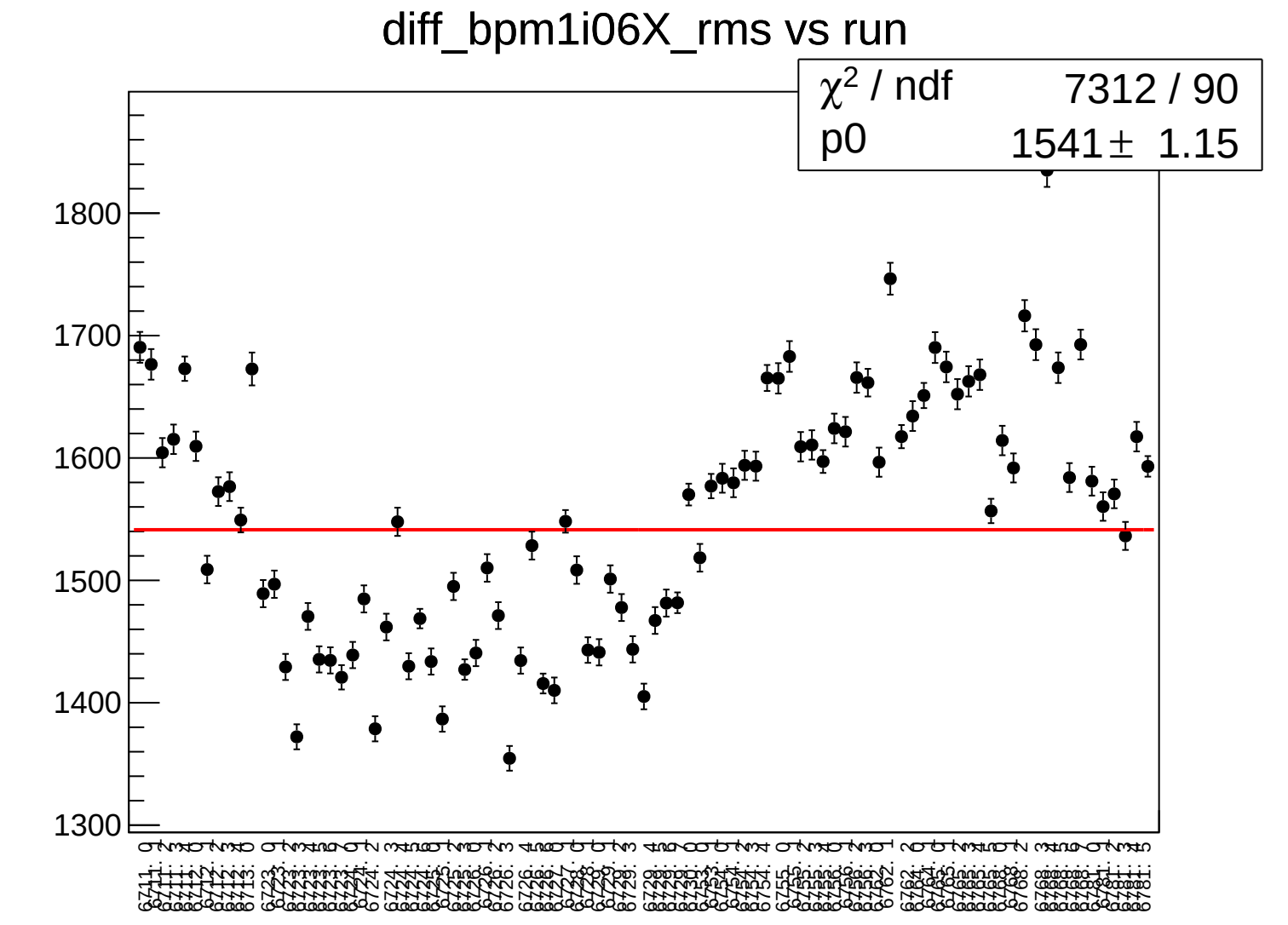

diff_bpm1i04Y_mean vs run
χ² / ndf 138.9 / 90
p0 41.01 ± 0.8368
pull
Entries 91
Mean −174.3
Std Dev 0

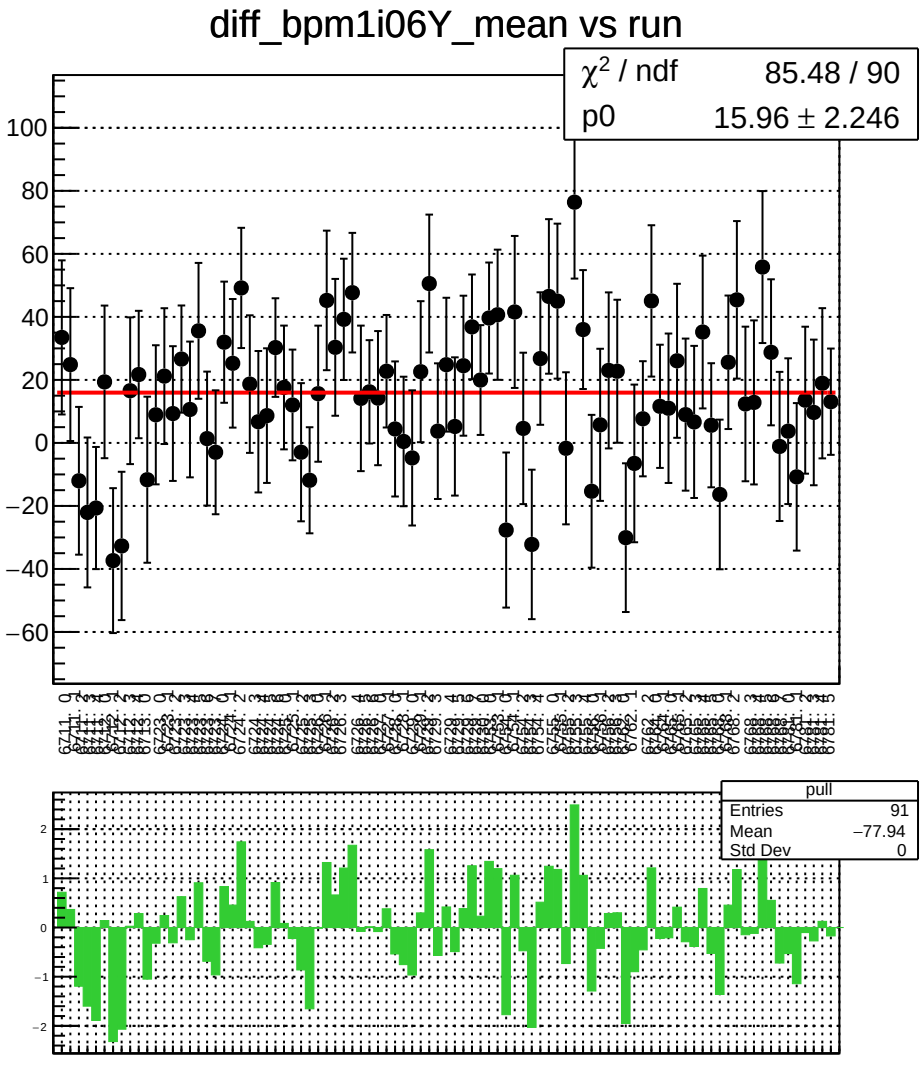

pull1D
Entries 91
Mean −0.01466
Std Dev 1.235

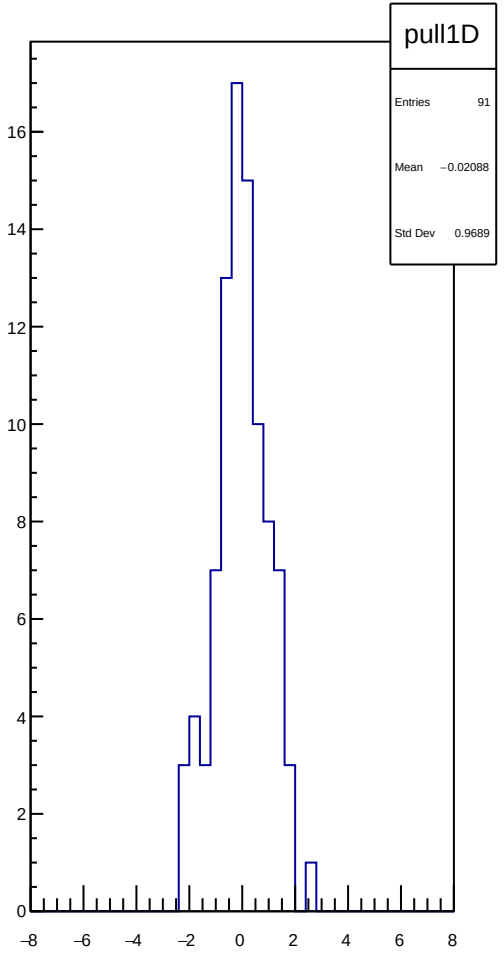

diff_bpm1i04Y_rms vs run
χ² / ndf 4952 / 90
p0 793.8 ± 0.5917
950
900
850
800
750

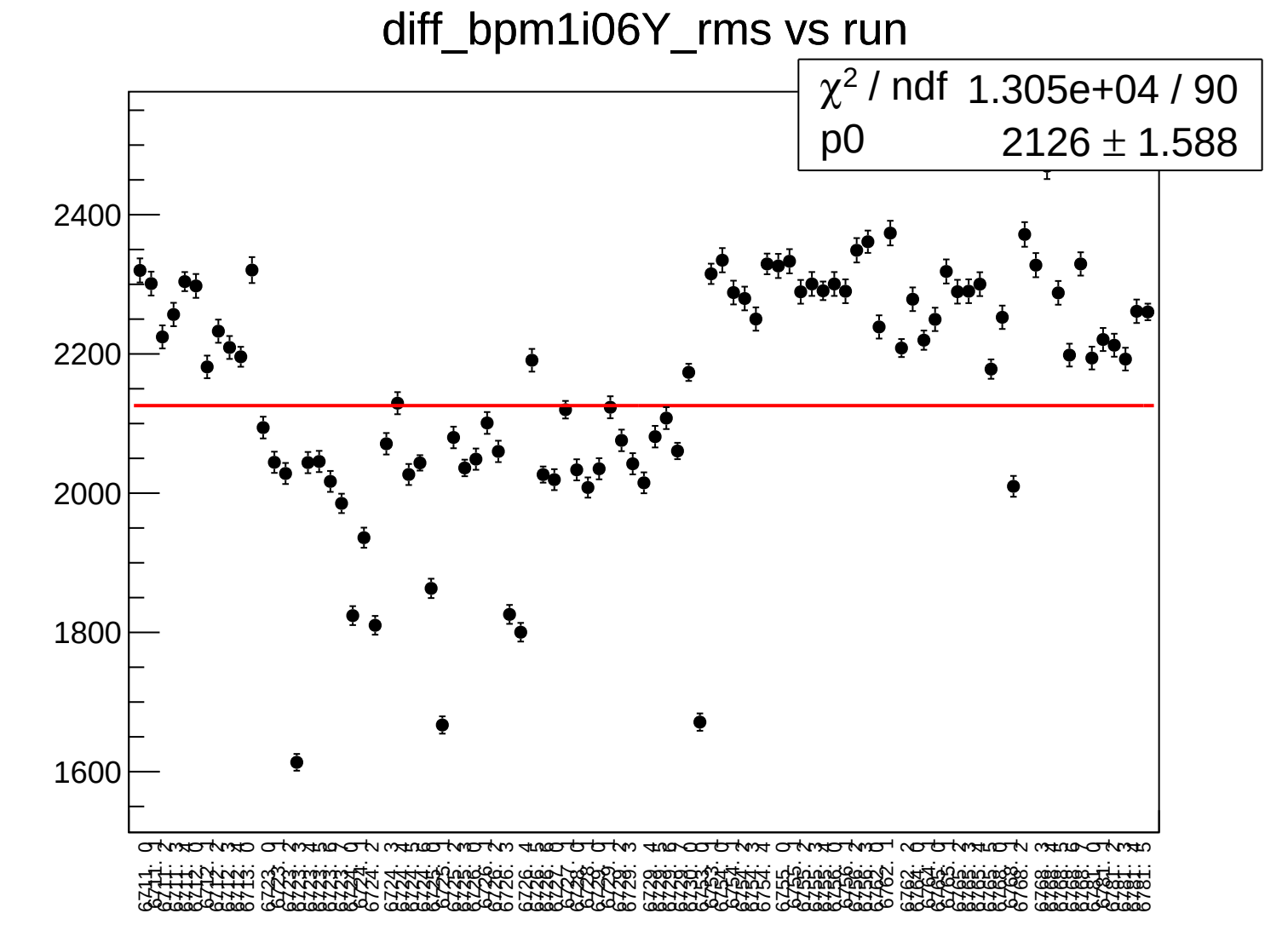

diff_bpm1i06X_mean vs run
χ^2 / ndf 229.4 / 90
p0 79.56 ± 1.626
pull
Entries 91
Mean 392.9
Std Dev 0

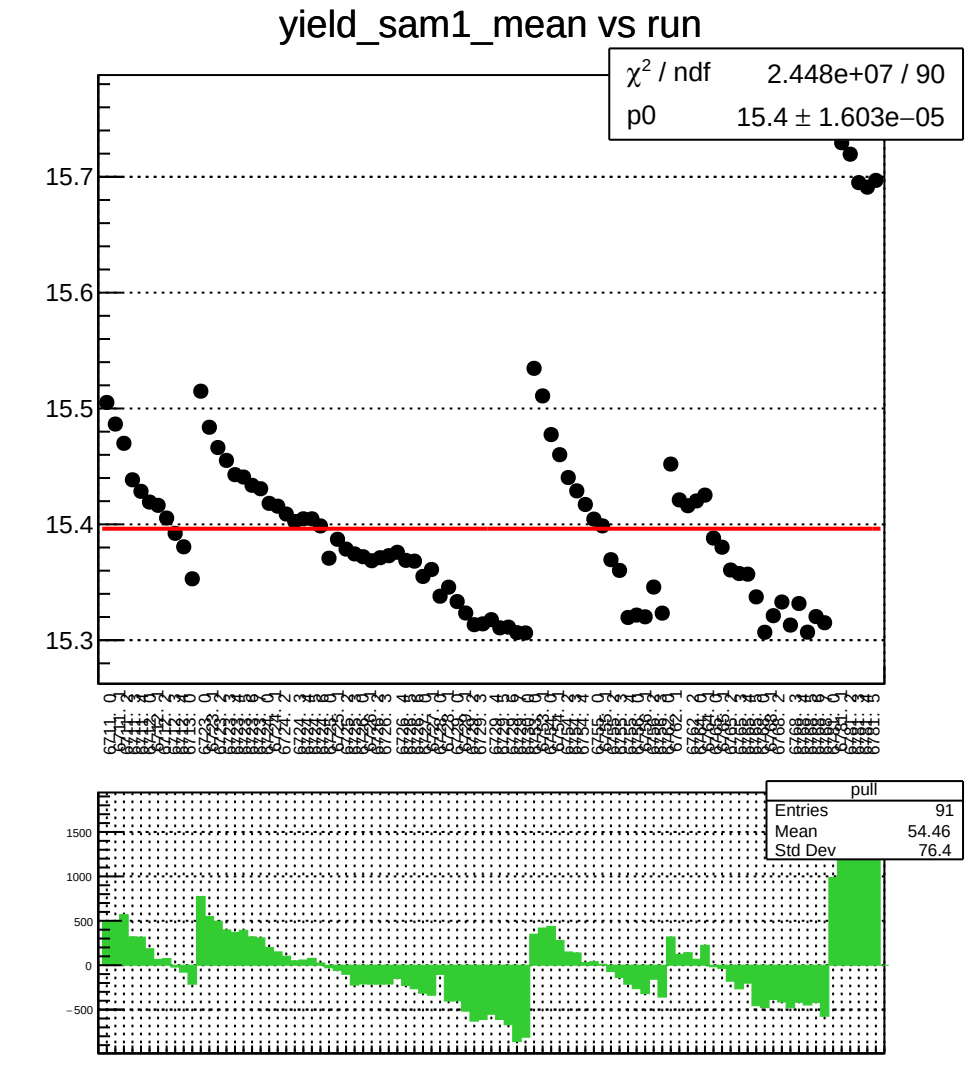

pull1D
Entries 91
Mean 0.0644
Std Dev 1.586

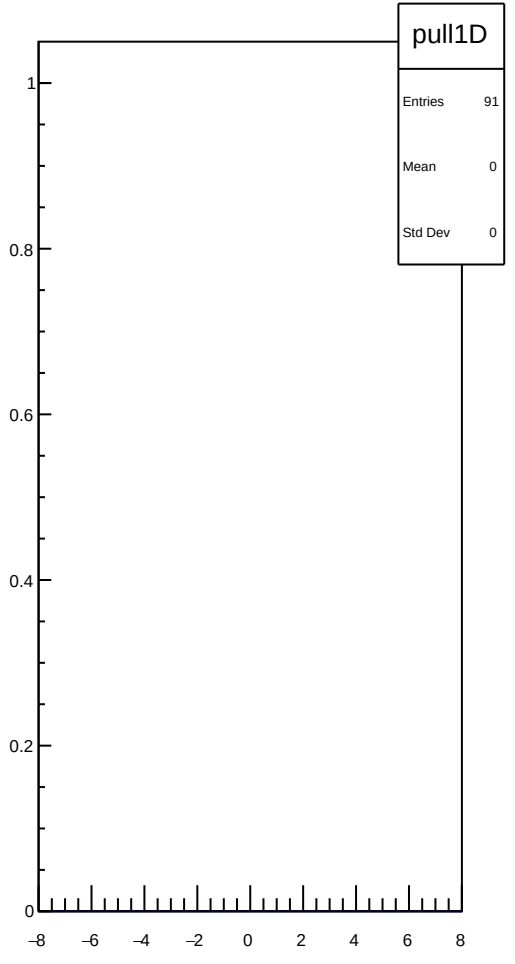

diff_bpm1i06X_rms vs run
χ² / ndf 7312 / 90
p0 1541 ± 1.15
1800
1700
1600
1500
1400
1300

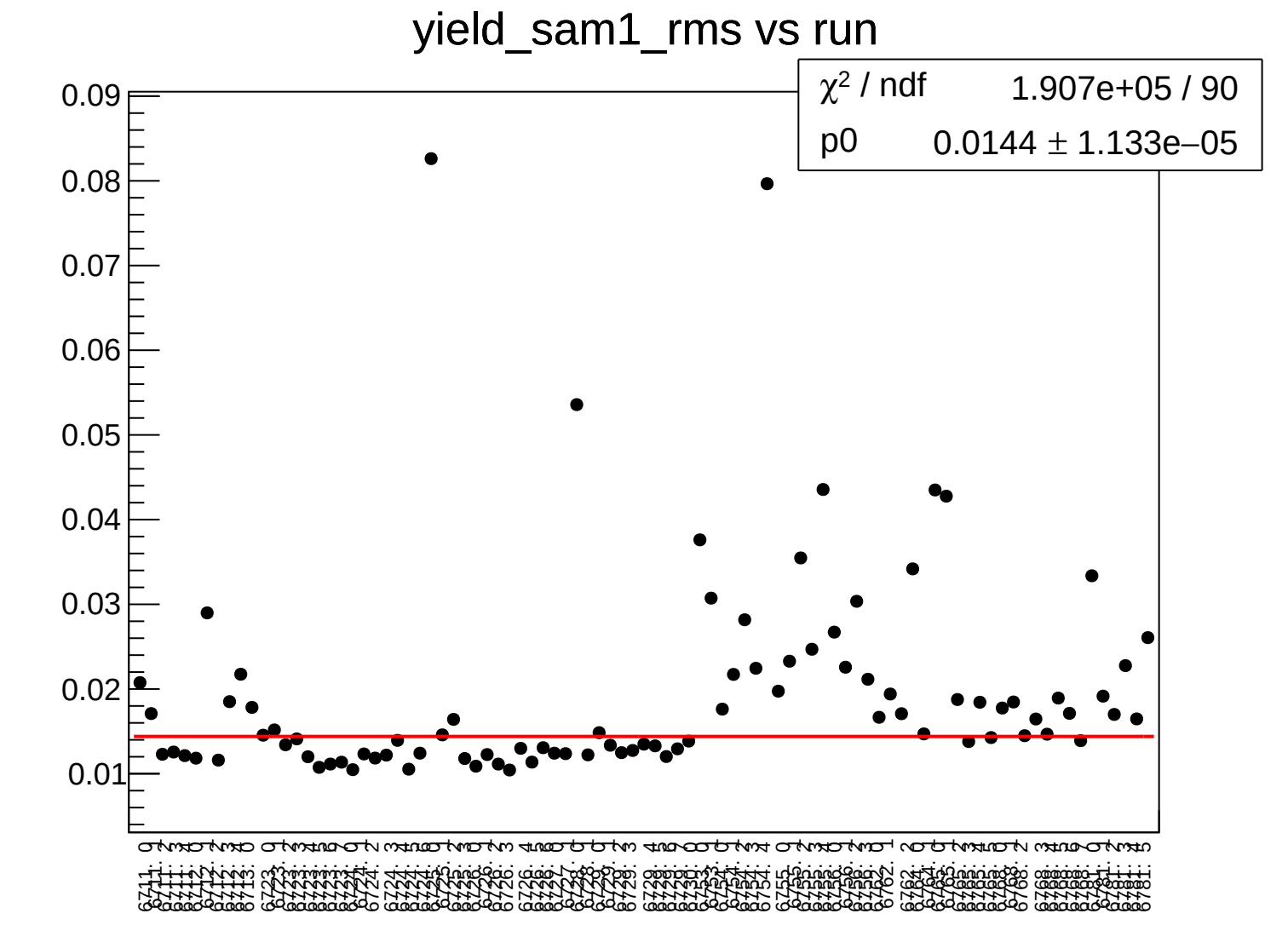

diff_bpm1i06Y_mean vs run
χ² / ndf 85.48 / 90
p0 15.96 ± 2.246
pull
Entries 91
Mean −77.94
Std Dev 0

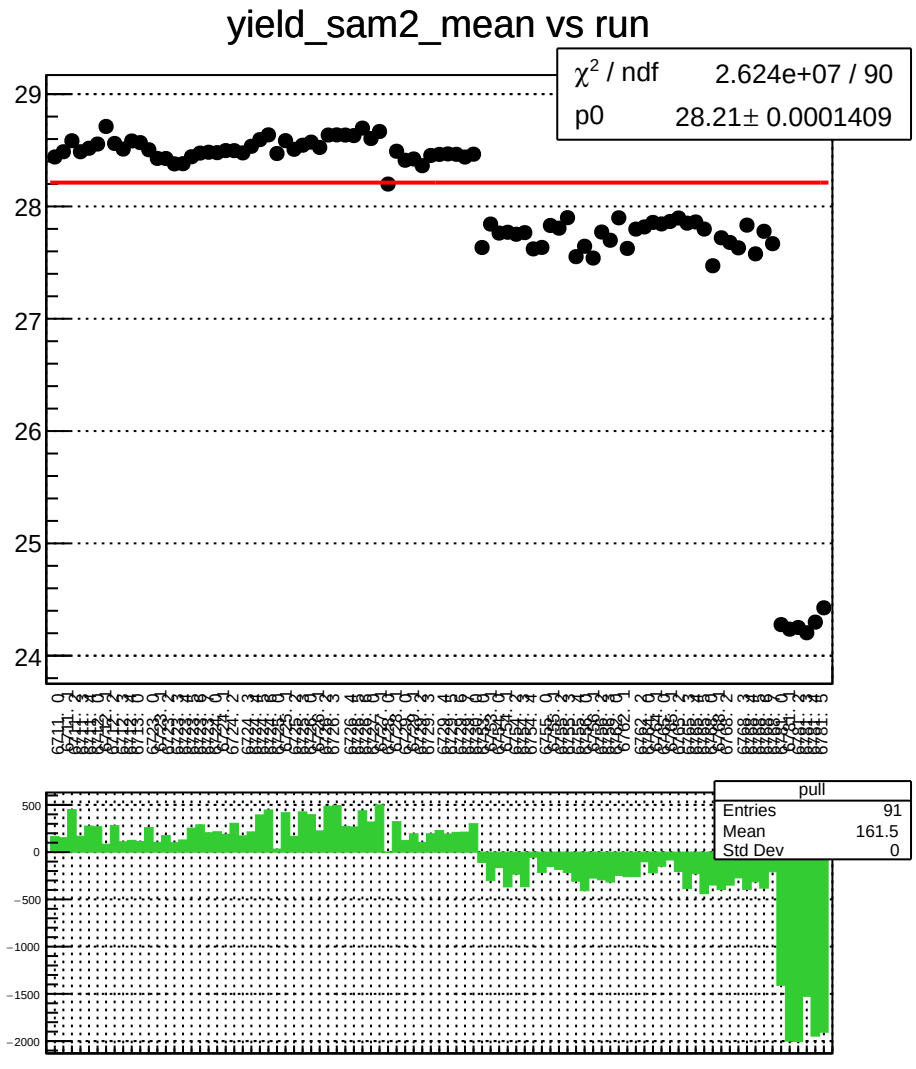

pull1D
Entries 91
Mean −0.02088
Std Dev 0.9689

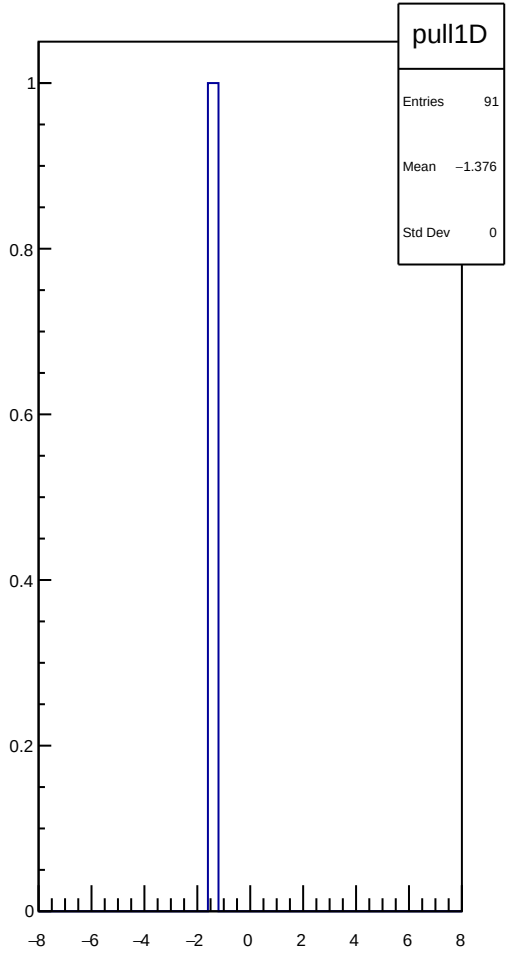

diff_bpm1i06Y_rms vs run
χ² / ndf 1.305e+04 / 90
p0 2126 ± 1.588
2400
2200
2000
1800
1600

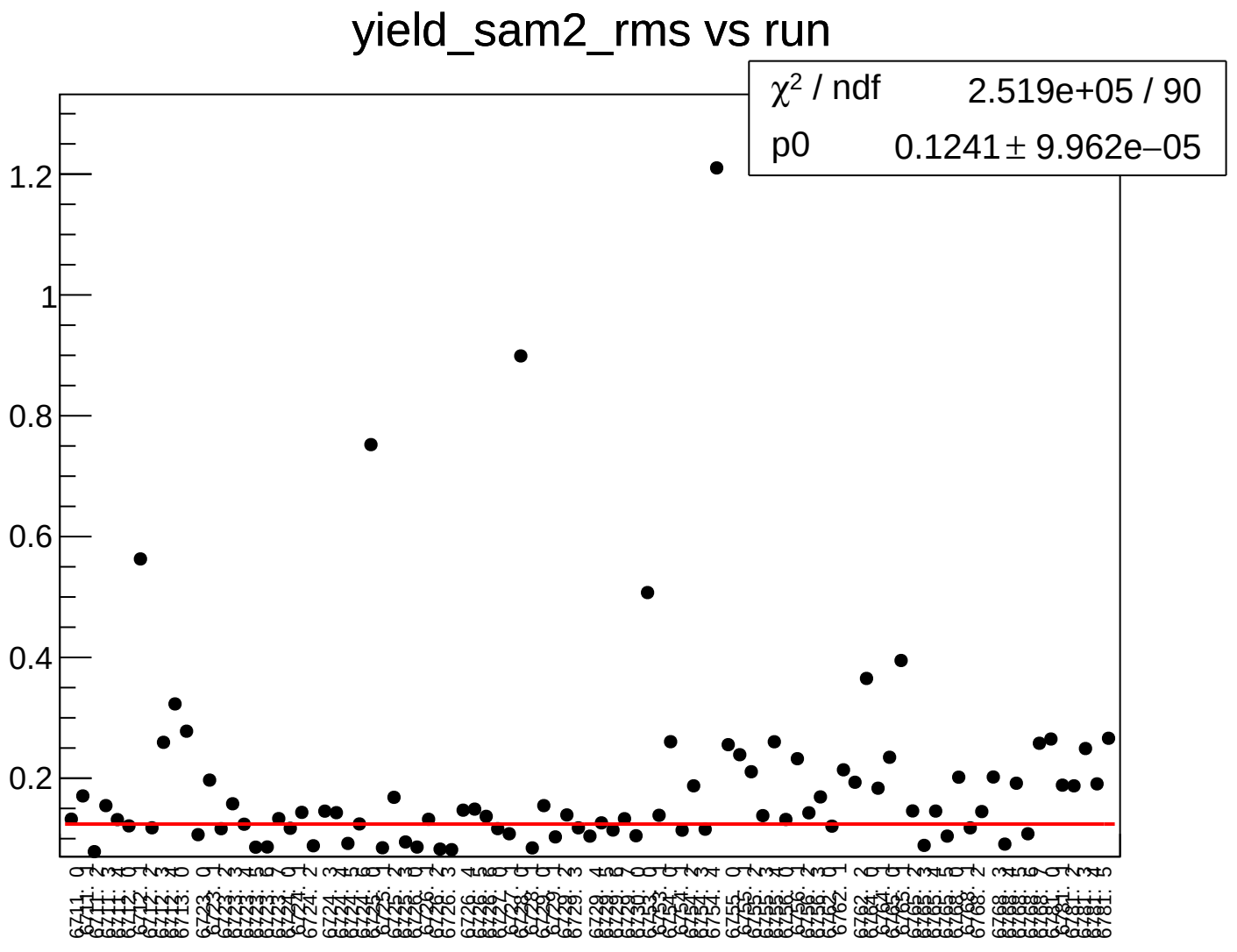

yield_sam1_mean vs run
χ² / ndf 2.448e+07 / 90
p0 15.4 ± 1.603e−05
15.7
15.6
15.5
15.4
15.3
pull
Entries 91
Mean 54.46
Std Dev 76.4
1500
1000
500
0
−500

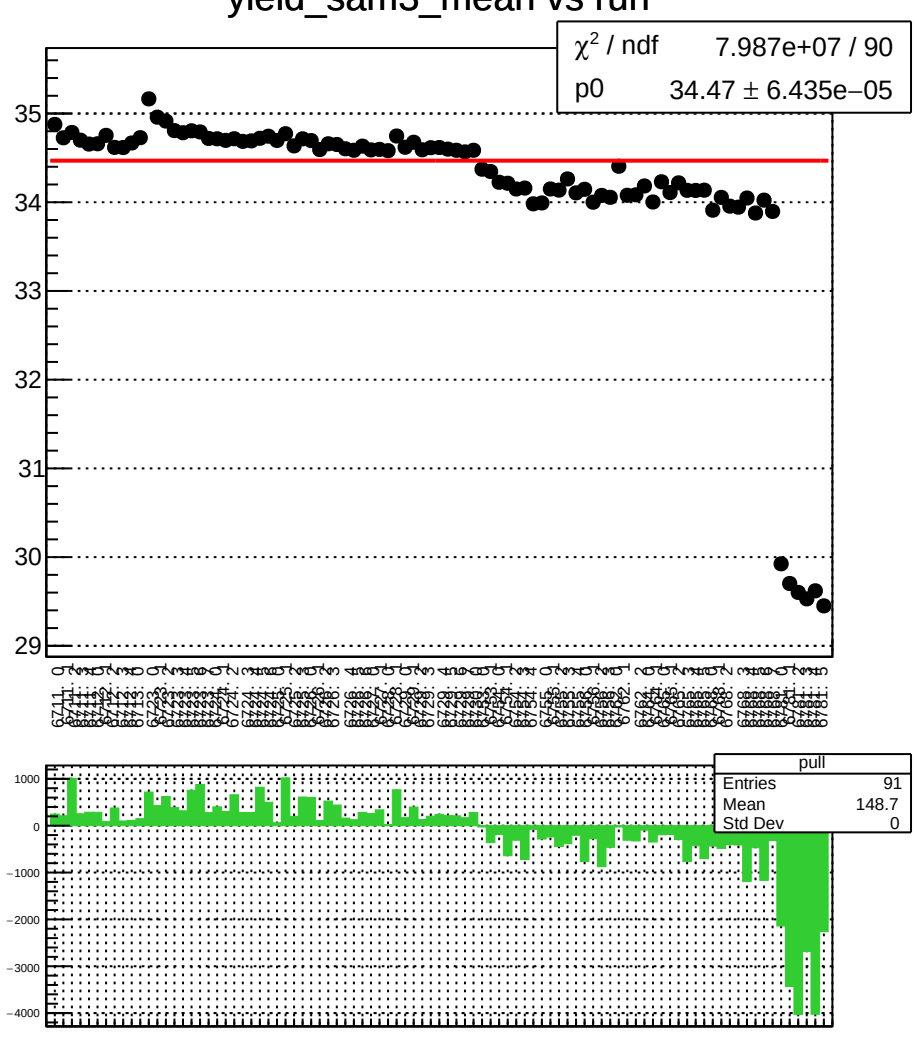

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

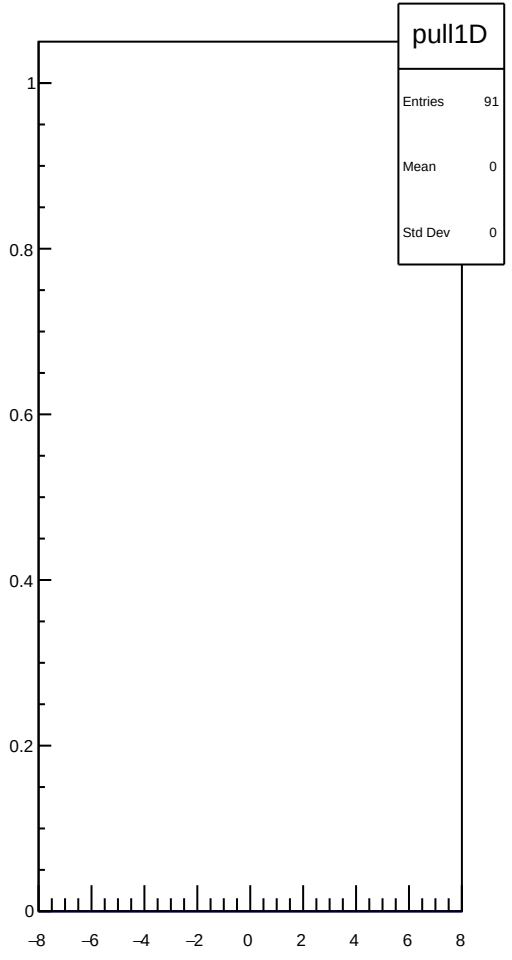

yield_sam1_rms vs run
χ² / ndf 1.907e+05 / 90
p0 0.0144 ± 1.133e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

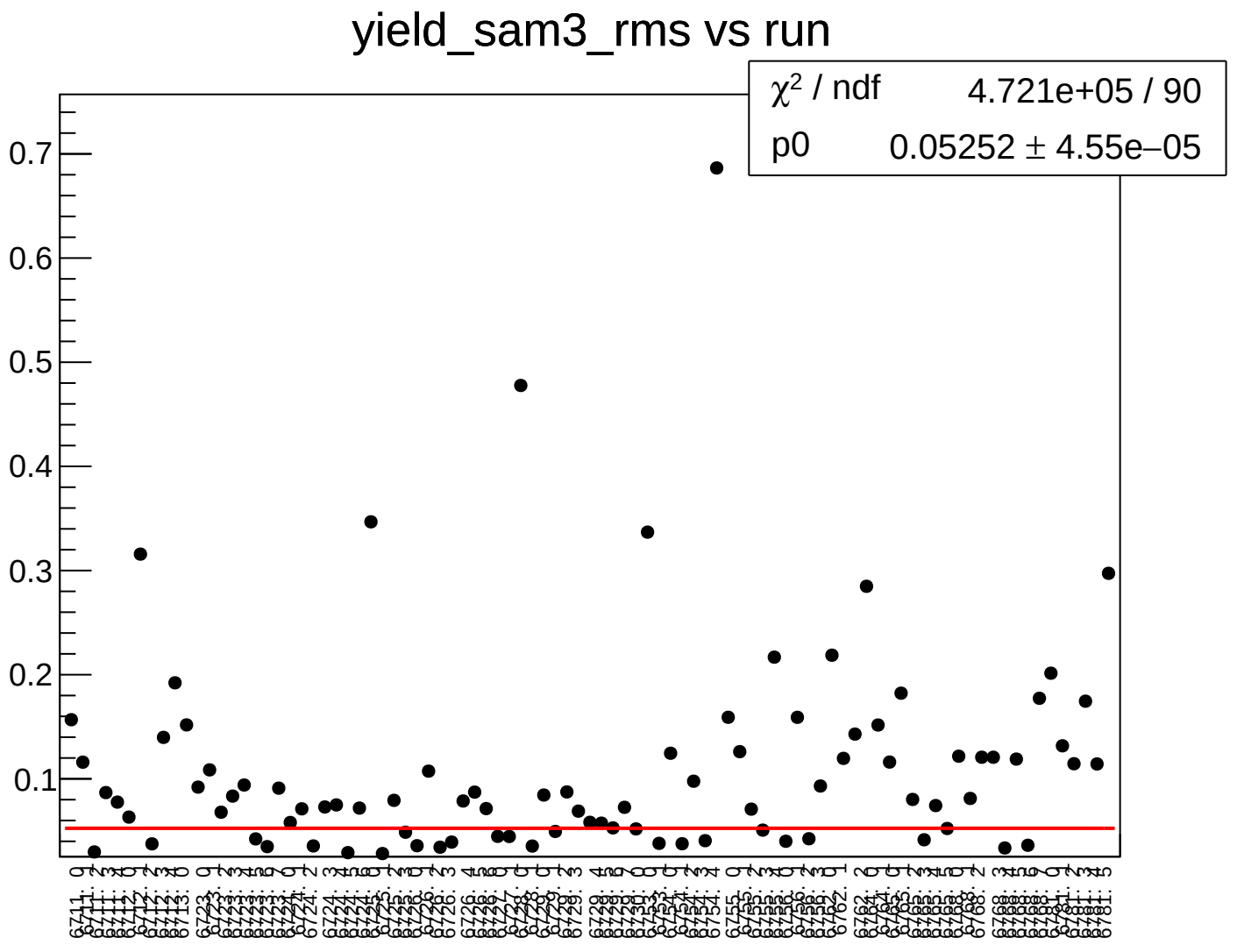

yield_sam2_mean vs run
χ² / ndf 2.624e+07 / 90
p0 28.21± 0.0001409
pull
Entries 91
Mean 161.5
Std Dev 0

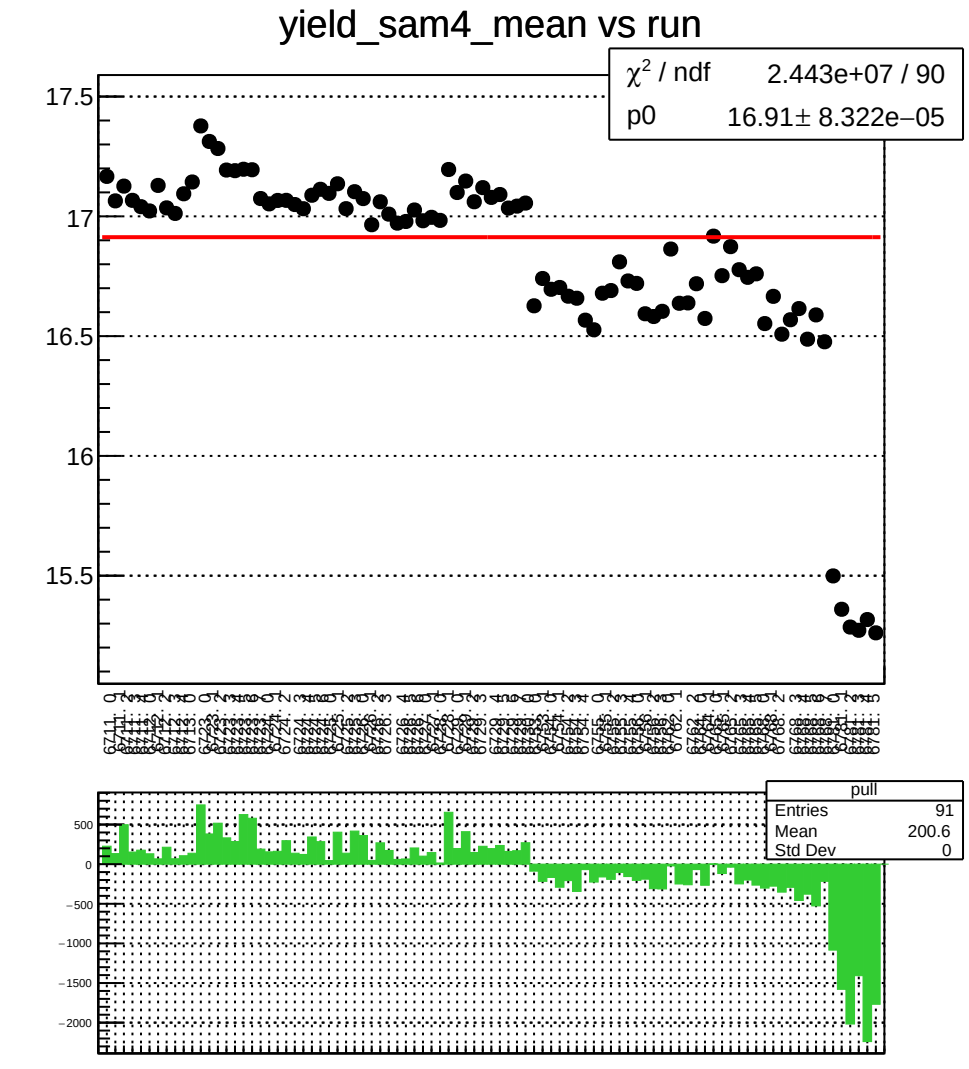

pull1D
Entries 91
Mean −1.376
Std Dev 0

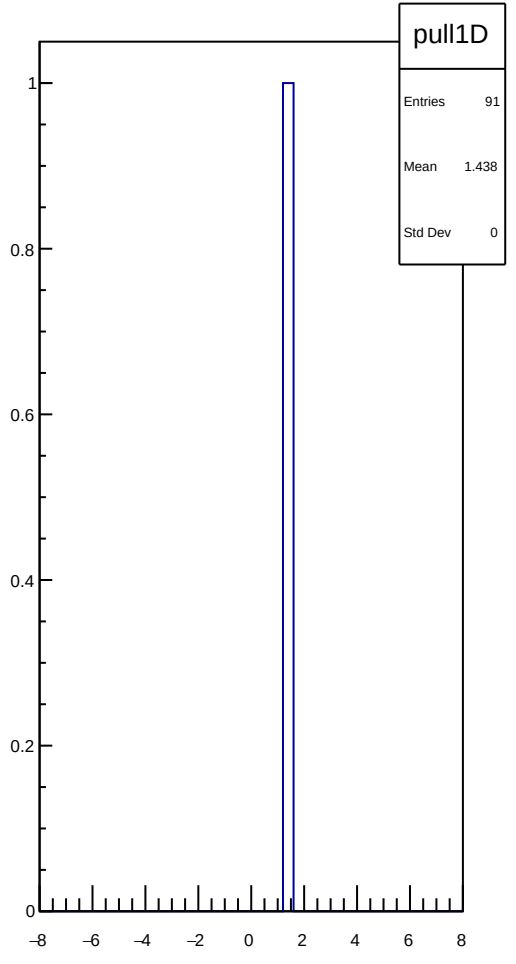

yield_sam2_rms vs run
χ² / ndf 2.519e+05 / 90
p0 0.1241 ± 9.962e−05
1.2
1
0.8
0.6
0.4
0.2

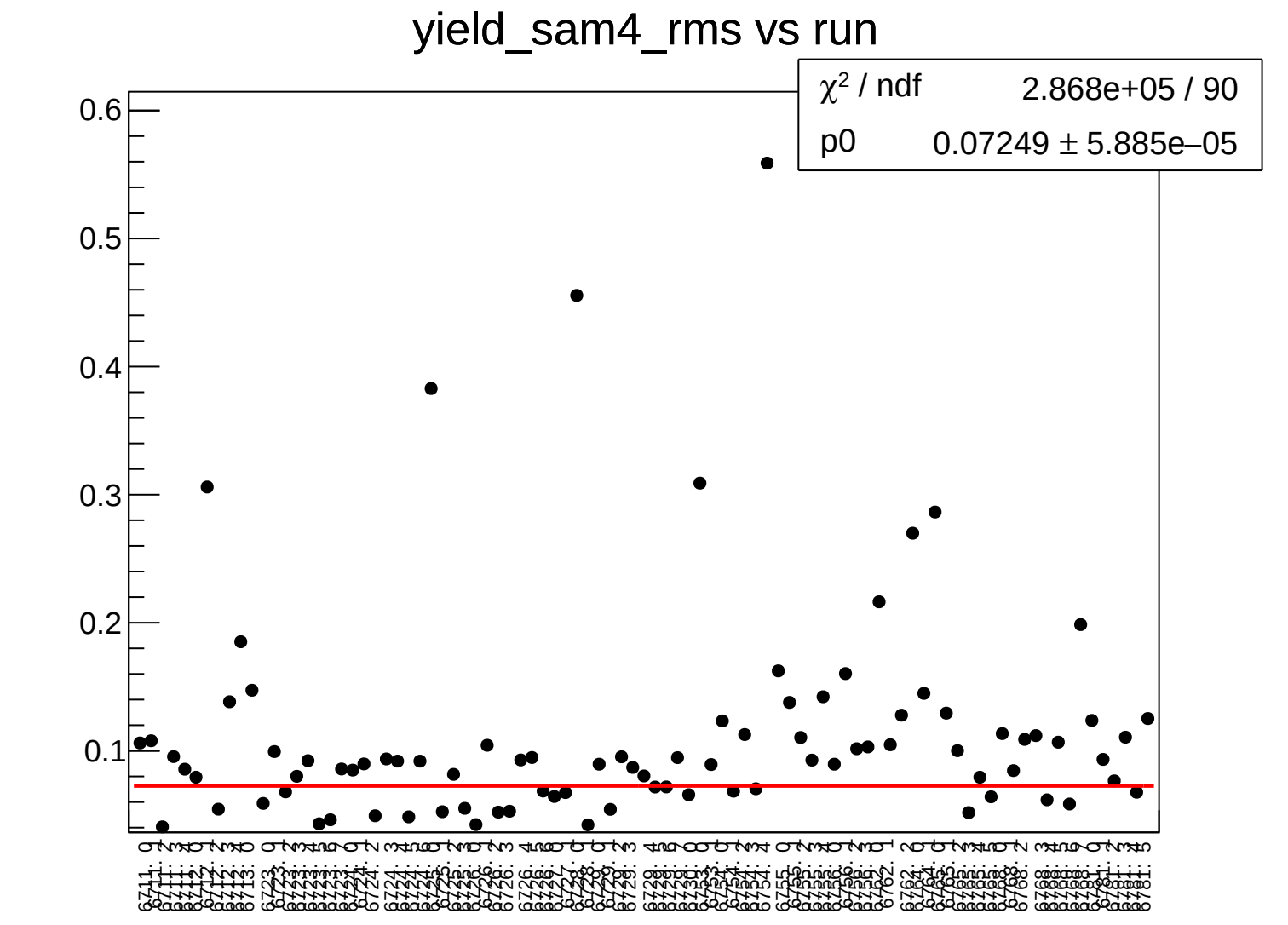

yield_sam3_mean vs run
χ² / ndf 7.987e+07 / 90
p0 34.47 ± 6.435e−05
35
34
33
32
31
30
29
pull
Entries 91
Mean 148.7
Std Dev 0
1000
0
−1000
−2000
−3000
−4000

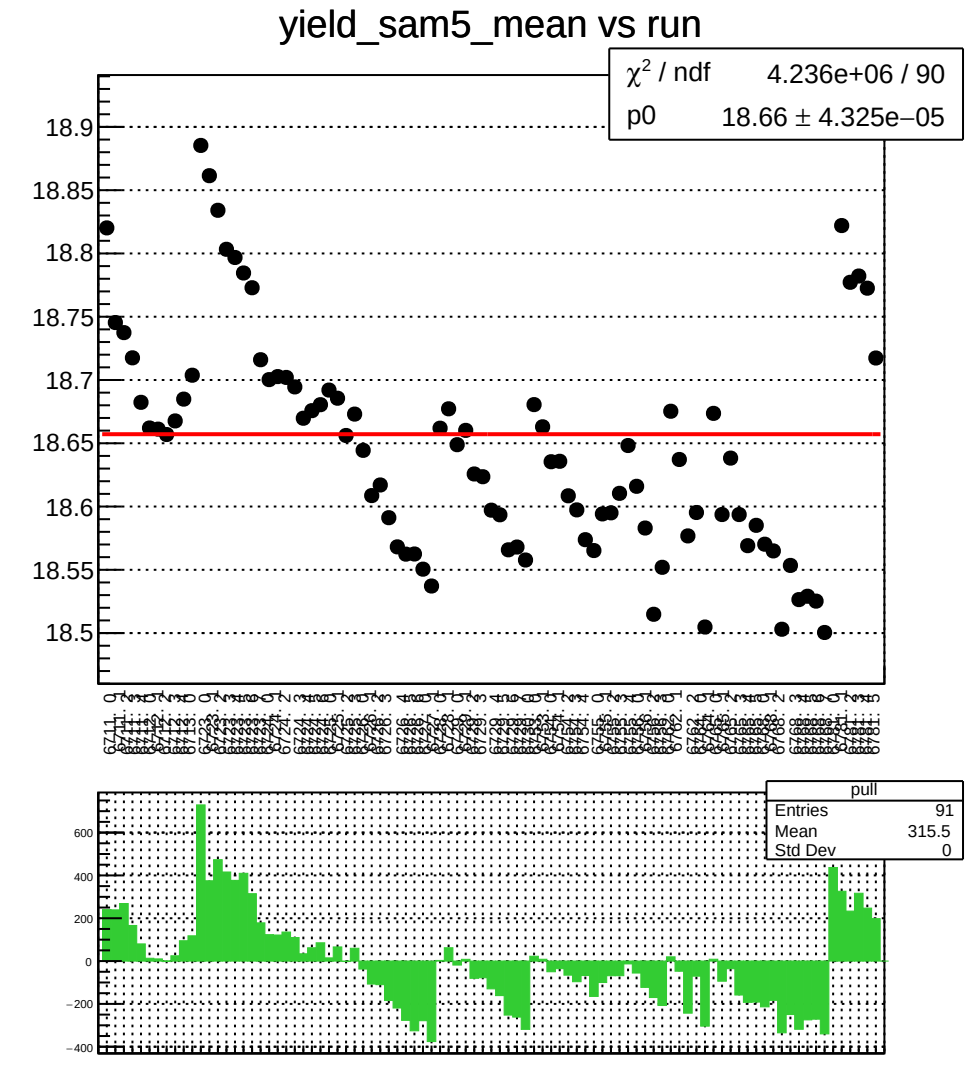

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

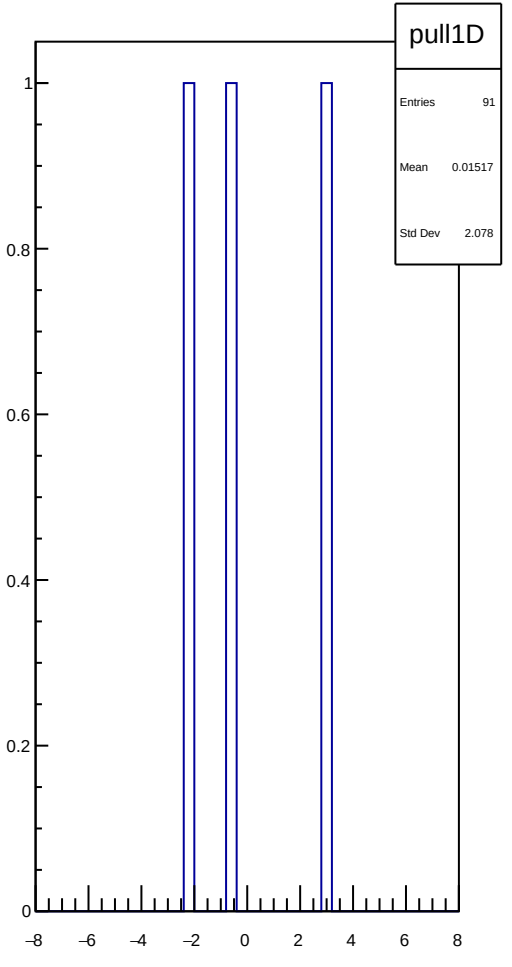

yield_sam3_rms vs run
χ² / ndf 4.721e+05 / 90
p0 0.05252 ± 4.55e−05
0.7
0.6
0.5
0.4
0.3
0.2
0.1

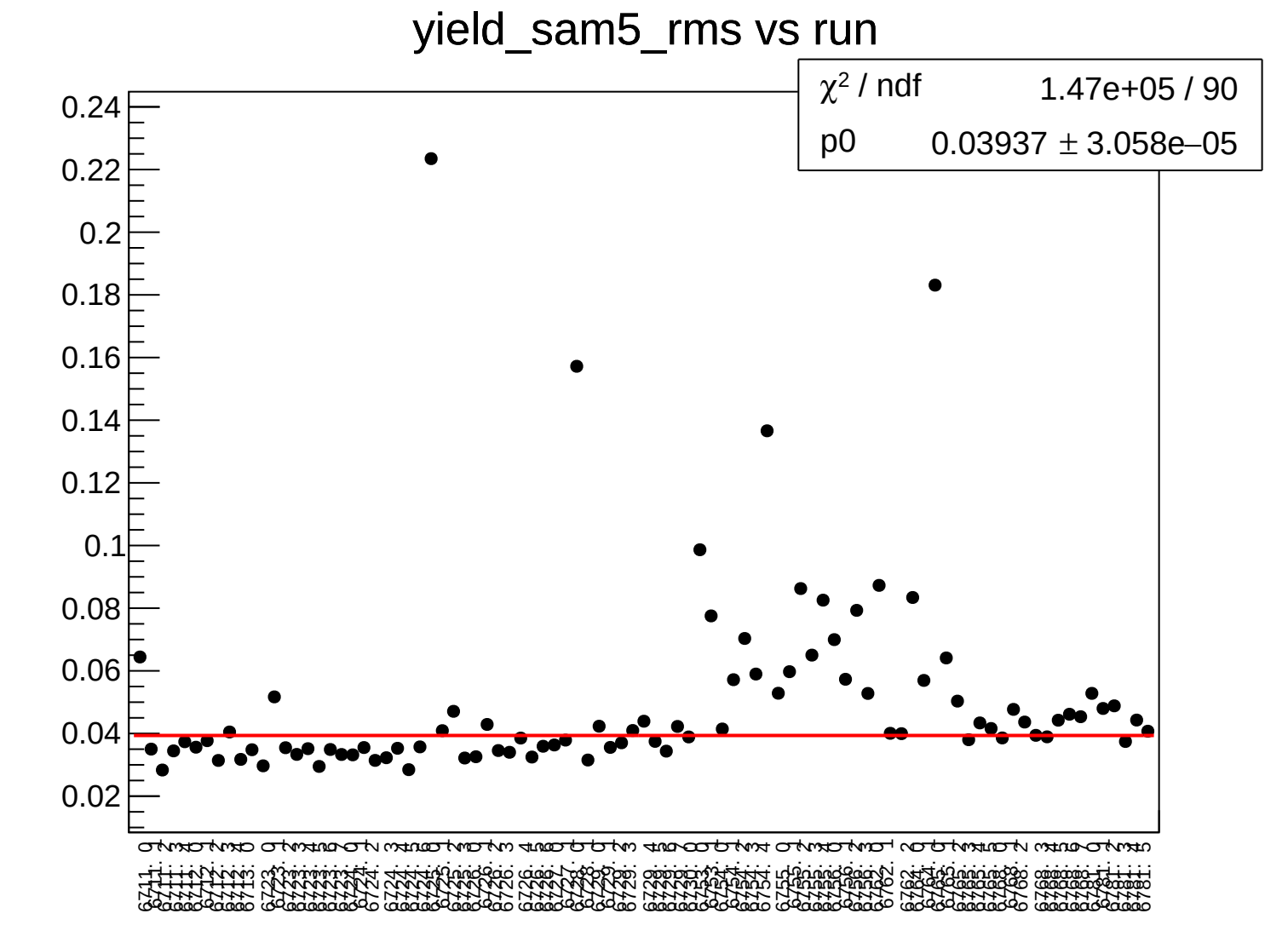

yield_sam4_mean vs run
χ² / ndf 2.443e+07 / 90
p0 16.91± 8.322e−05
17.5
17
16.5
16
15.5
pull
Entries 91
Mean 200.6
Std Dev 0
500
0
−500
−1000
−1500
−2000

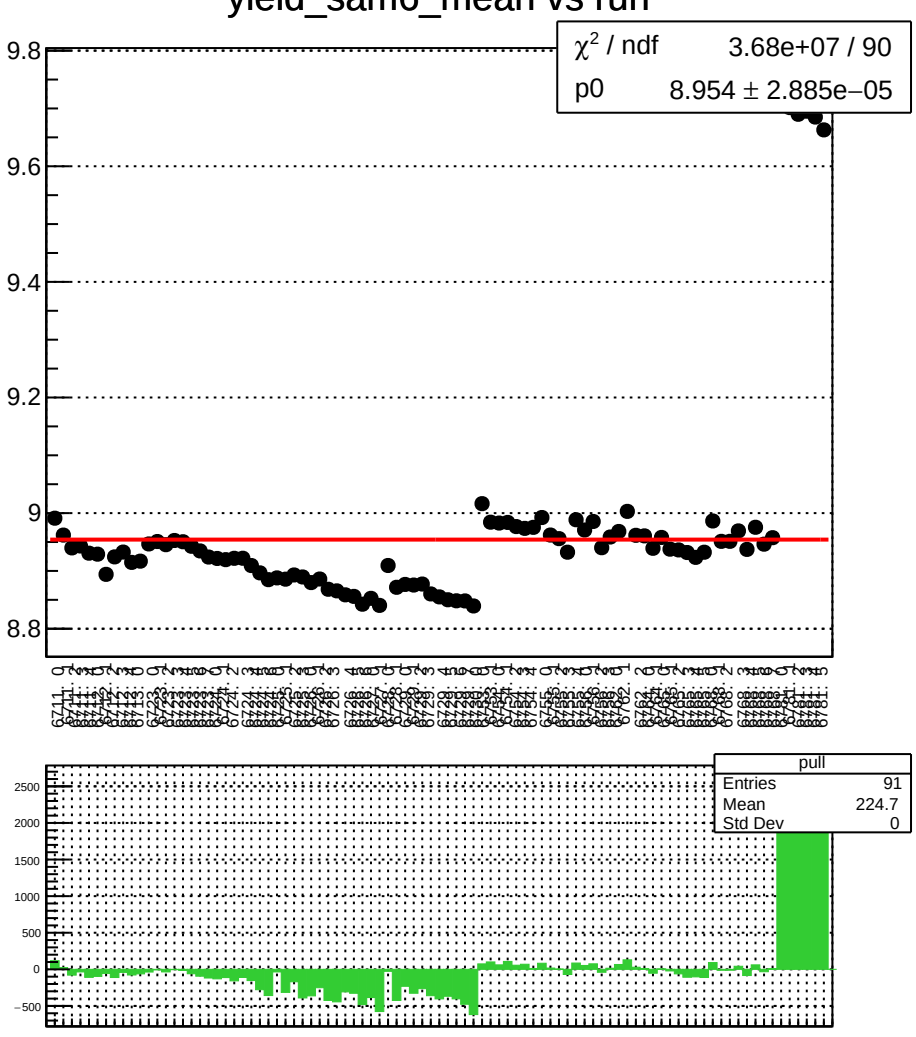

pull1D
Entries 91
Mean 1.438
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

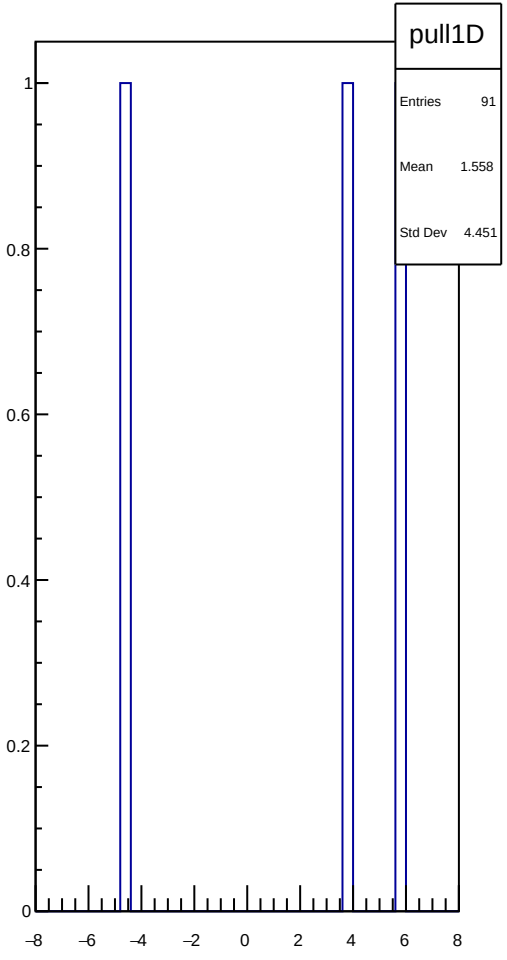

yield_sam4_rms vs run
χ² / ndf 2.868e+05 / 90
p0 0.07249 ± 5.885e–05
0.6
0.5
0.4
0.3
0.2
0.1

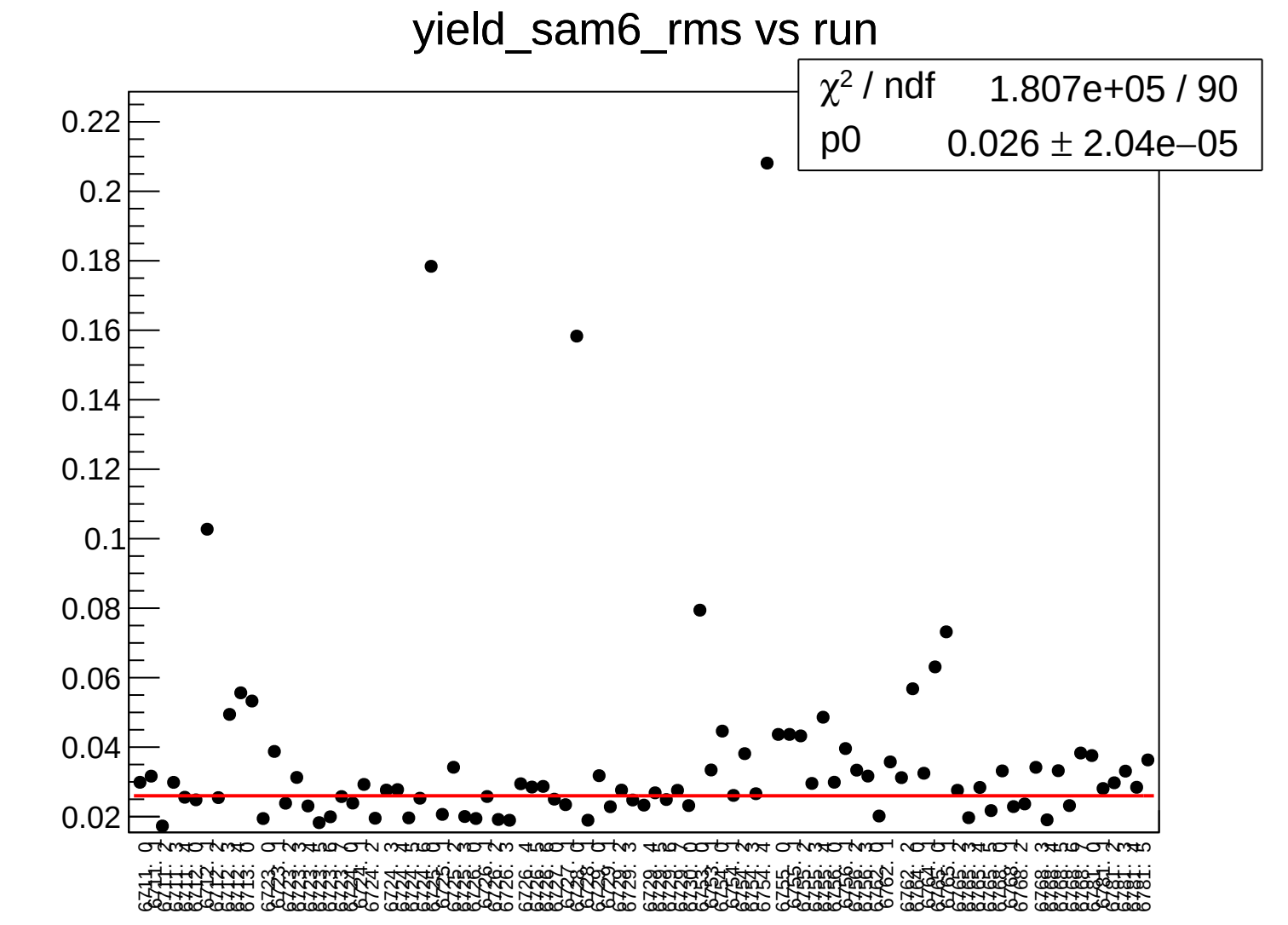

yield_sam5_mean vs run
χ² / ndf 4.236e+06 / 90
p0 18.66 ± 4.325e−05
18.9
18.85
18.8
18.75
18.7
18.65
18.6
18.55
18.5
pull
Entries 91
Mean 315.5
Std Dev 0
600
400
200
0
−200
−400

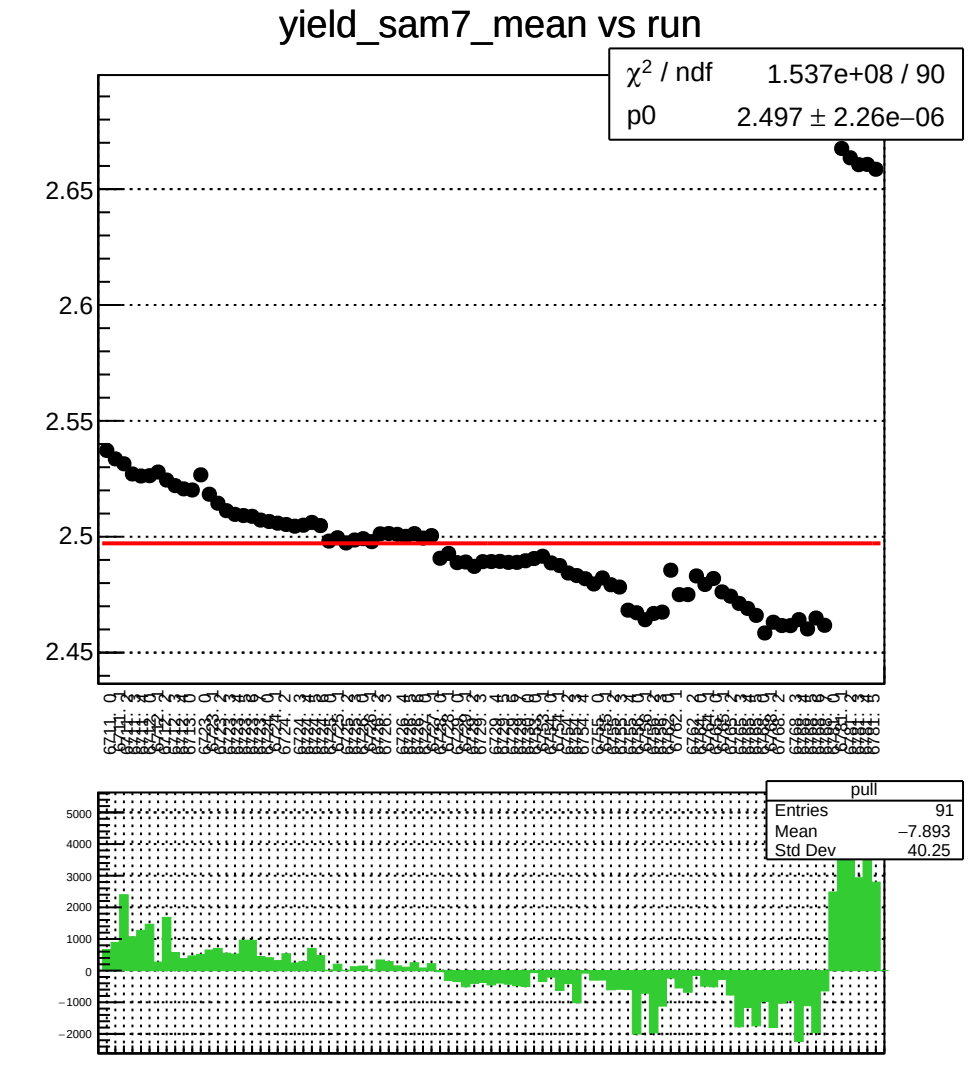

pull1D
Entries 91
Mean 0.01517
Std Dev 2.078
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

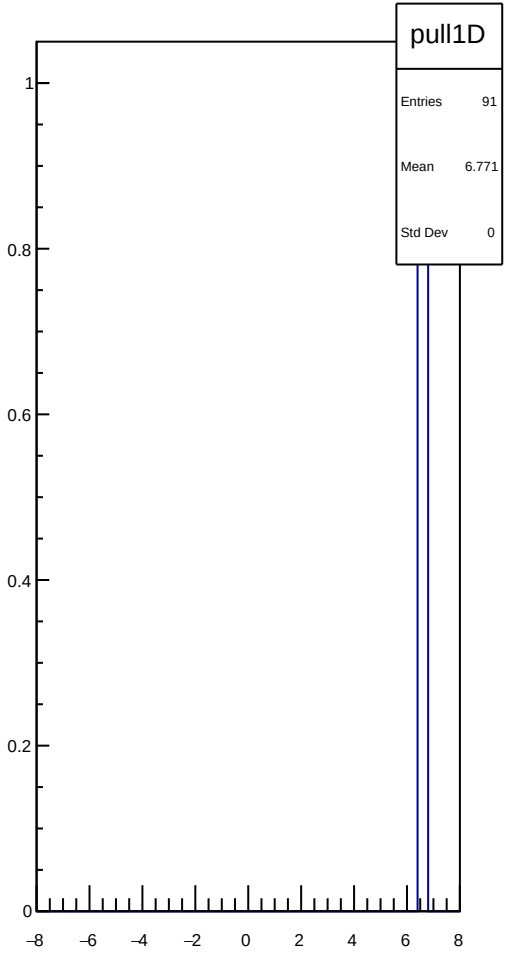

yield_sam5_rms vs run
χ² / ndf 1.47e+05 / 90
p0 0.03937 ± 3.058e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

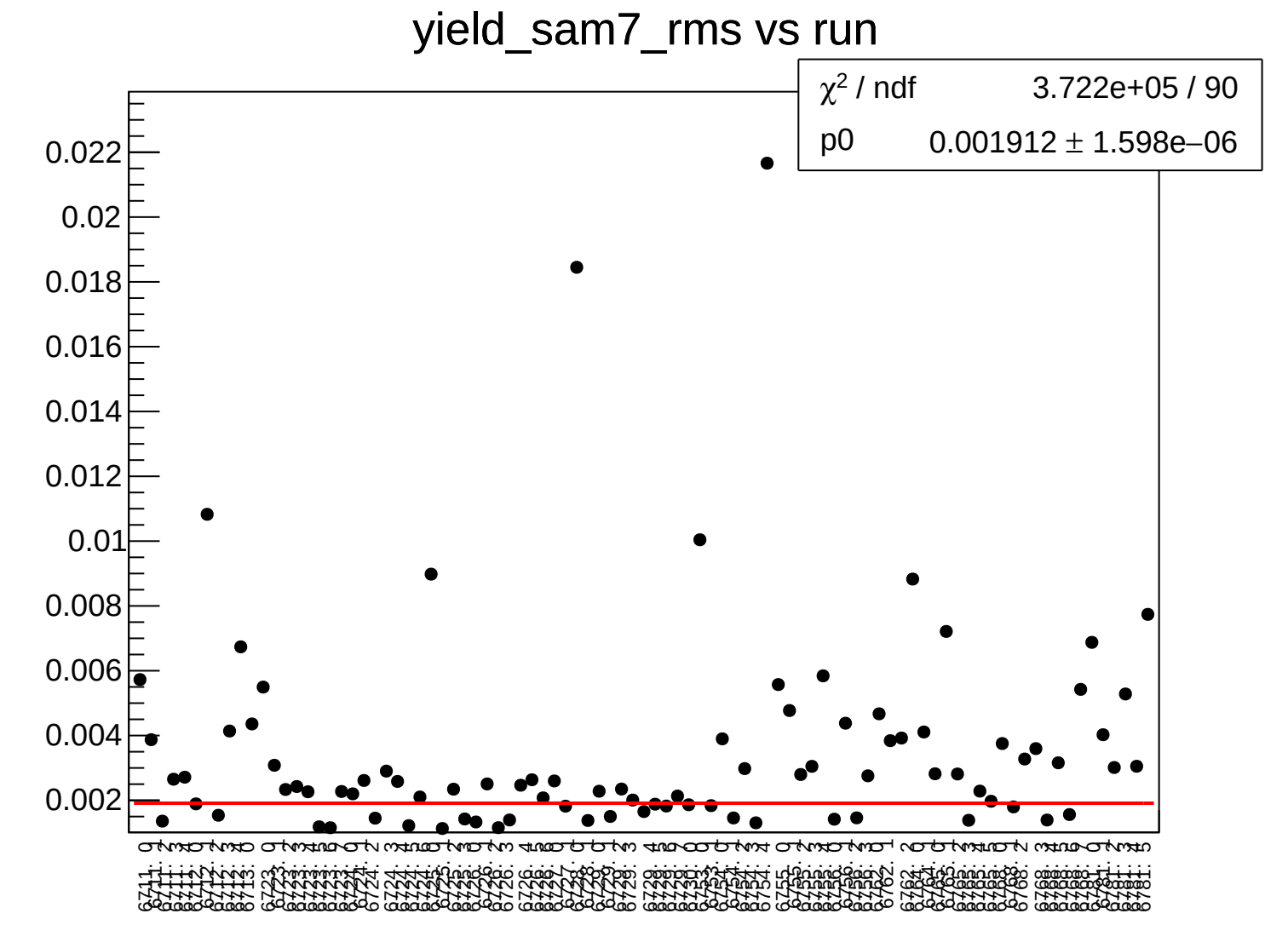

yield_sam6_mean vs run
χ² / ndf 3.68e+07 / 90
p0 8.954 ± 2.885e−05
9.8
9.6
9.4
9.2
9
8.8
pull
Entries 91
Mean 224.7
Std Dev 0
2500
2000
1500
1000
500
0
−500

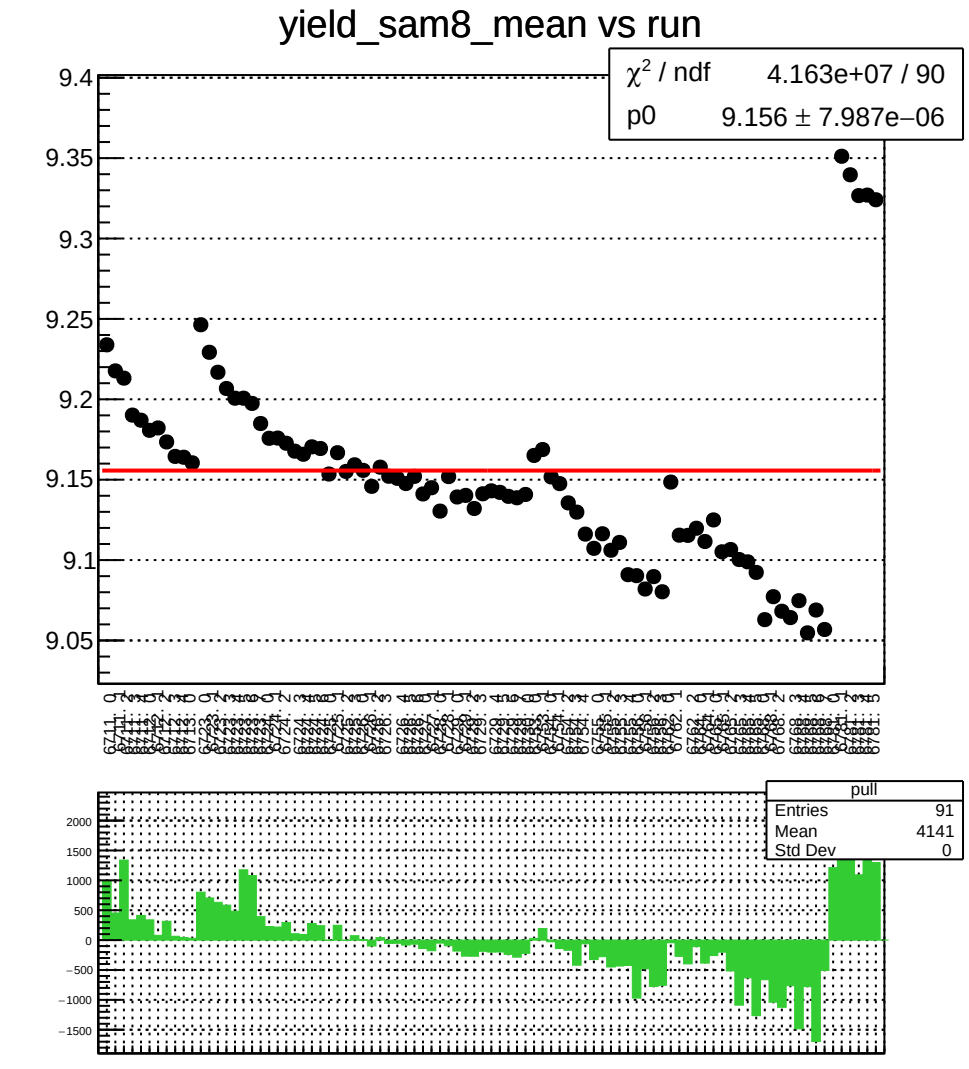

pull1D
Entries 91
Mean 1.558
Std Dev 4.451
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

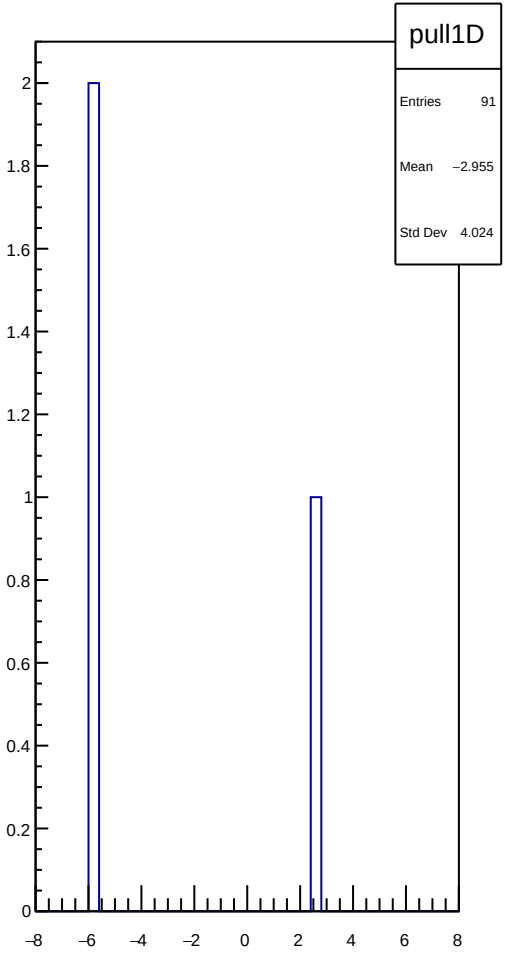

yield_sam6_rms vs run
χ² / ndf 1.807e+05 / 90
p0 0.026 ± 2.04e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

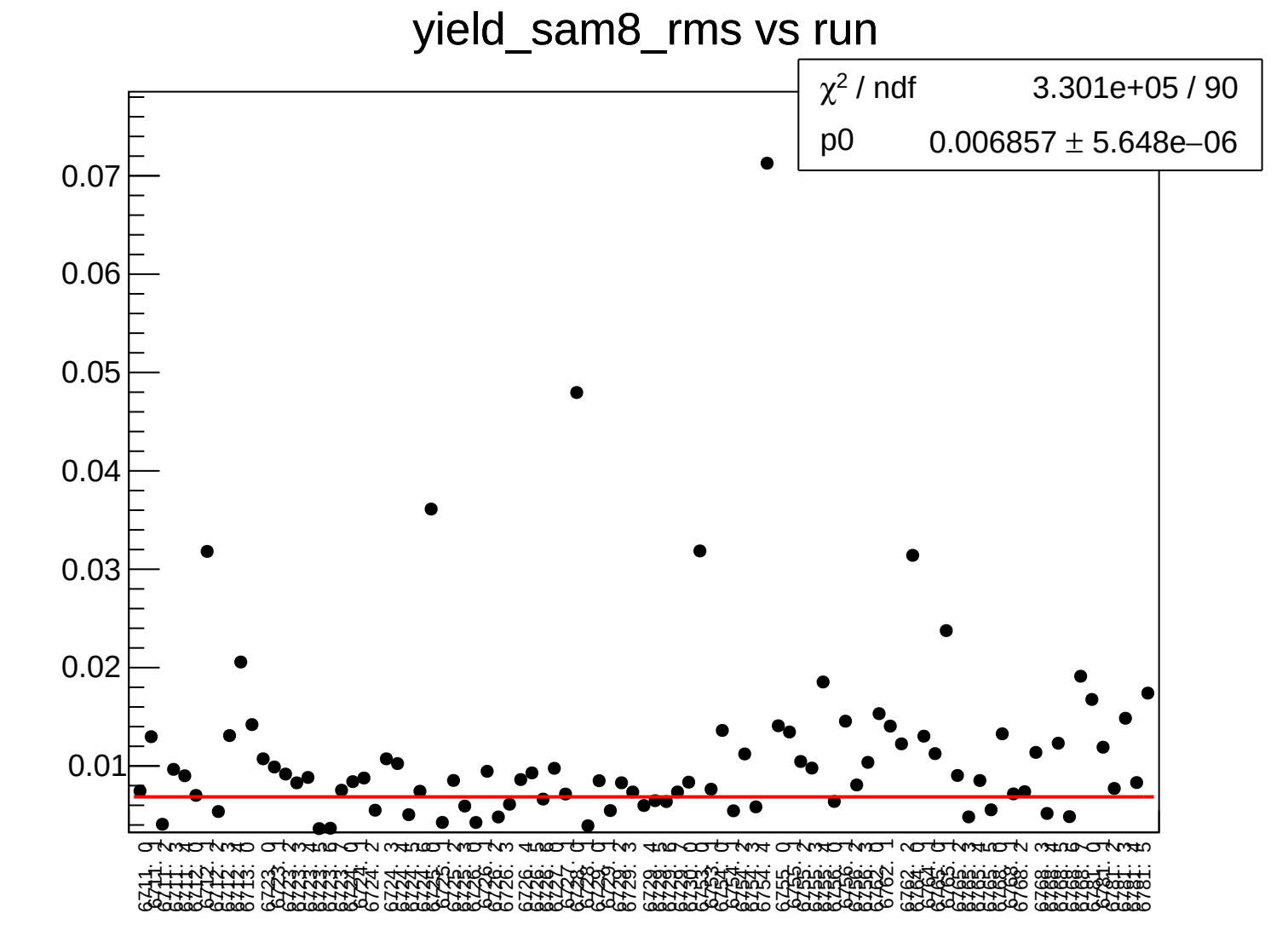

yield_sam7_mean vs run
χ² / ndf 1.537e+08 / 90
p0 2.497 ± 2.26e−06
2.65
2.6
2.55
2.5
2.45
pull
Entries 91
Mean −7.893
Std Dev 40.25
5000
4000
3000
2000
1000
0
−1000
−2000

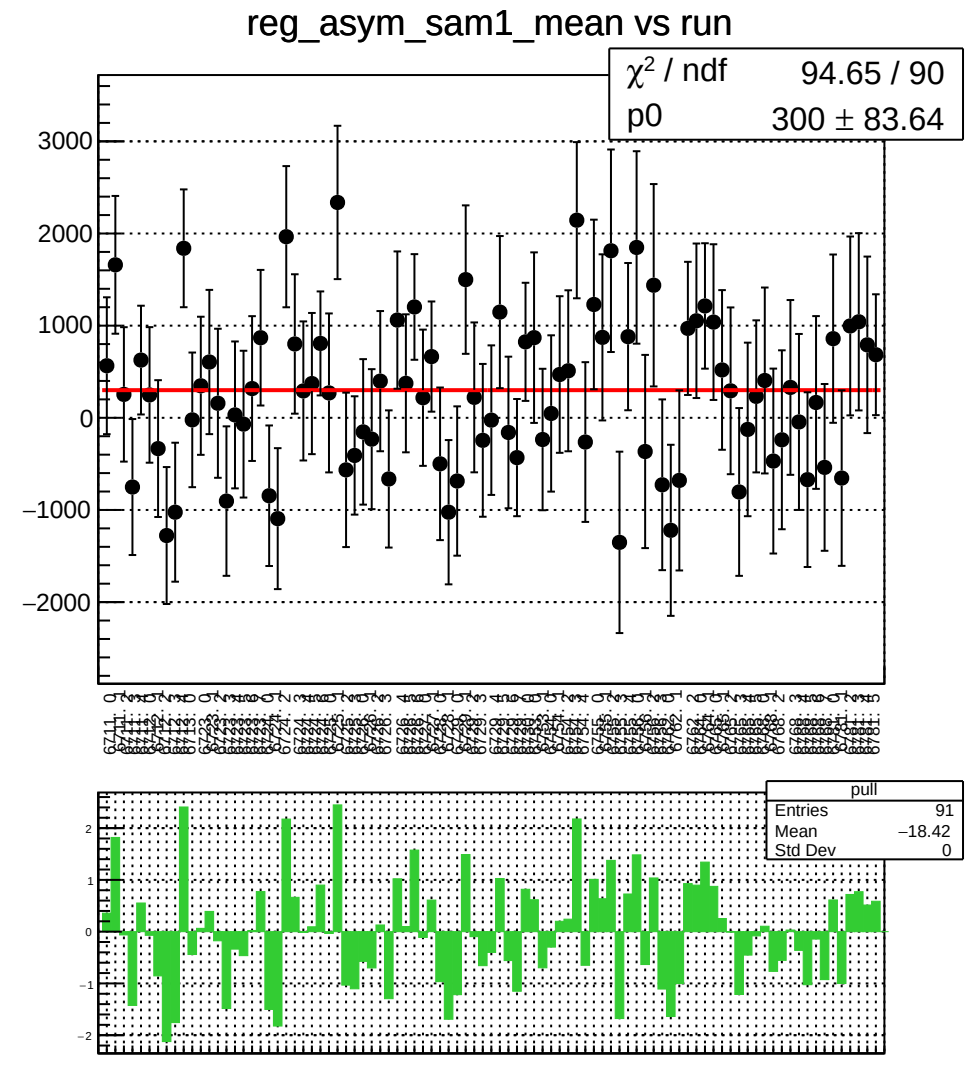

pull1D
Entries 91
Mean 6.771
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

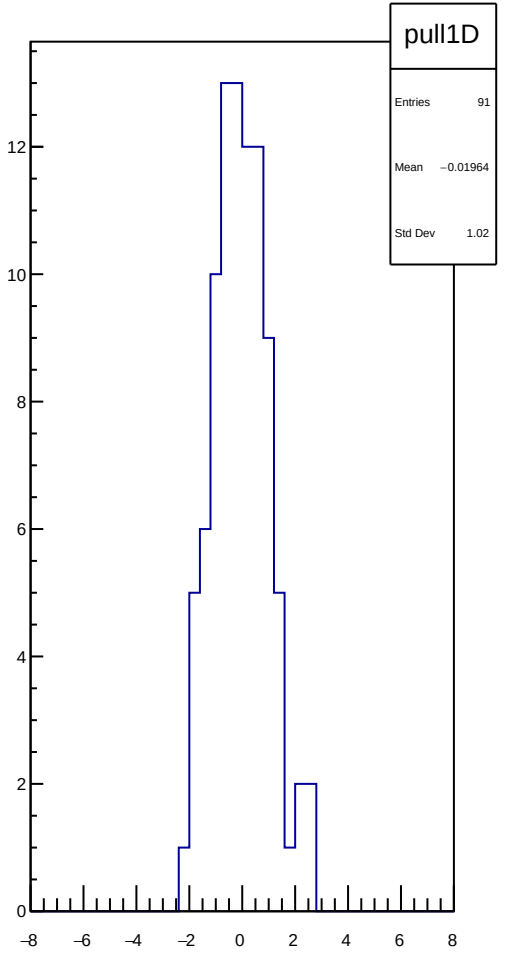

yield_sam7_rms vs run
χ² / ndf 3.722e+05 / 90
p0 0.001912 ± 1.598e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

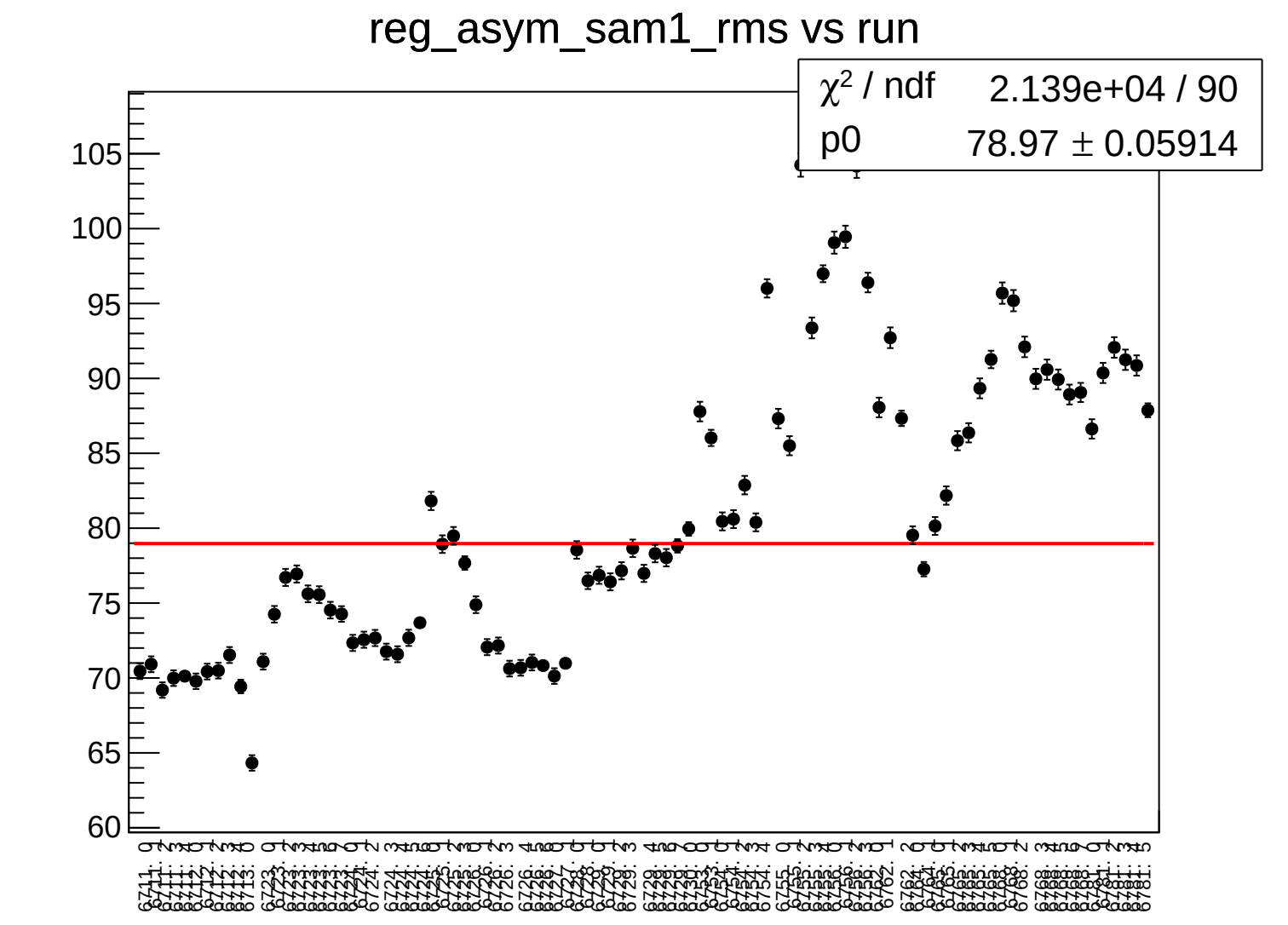

yield_sam8_mean vs run
χ² / ndf 4.163e+07 / 90
p0 9.156 ± 7.987e−06
9.4
9.35
9.3
9.25
9.2
9.15
9.1
9.05
pull
Entries 91
Mean 4141
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500

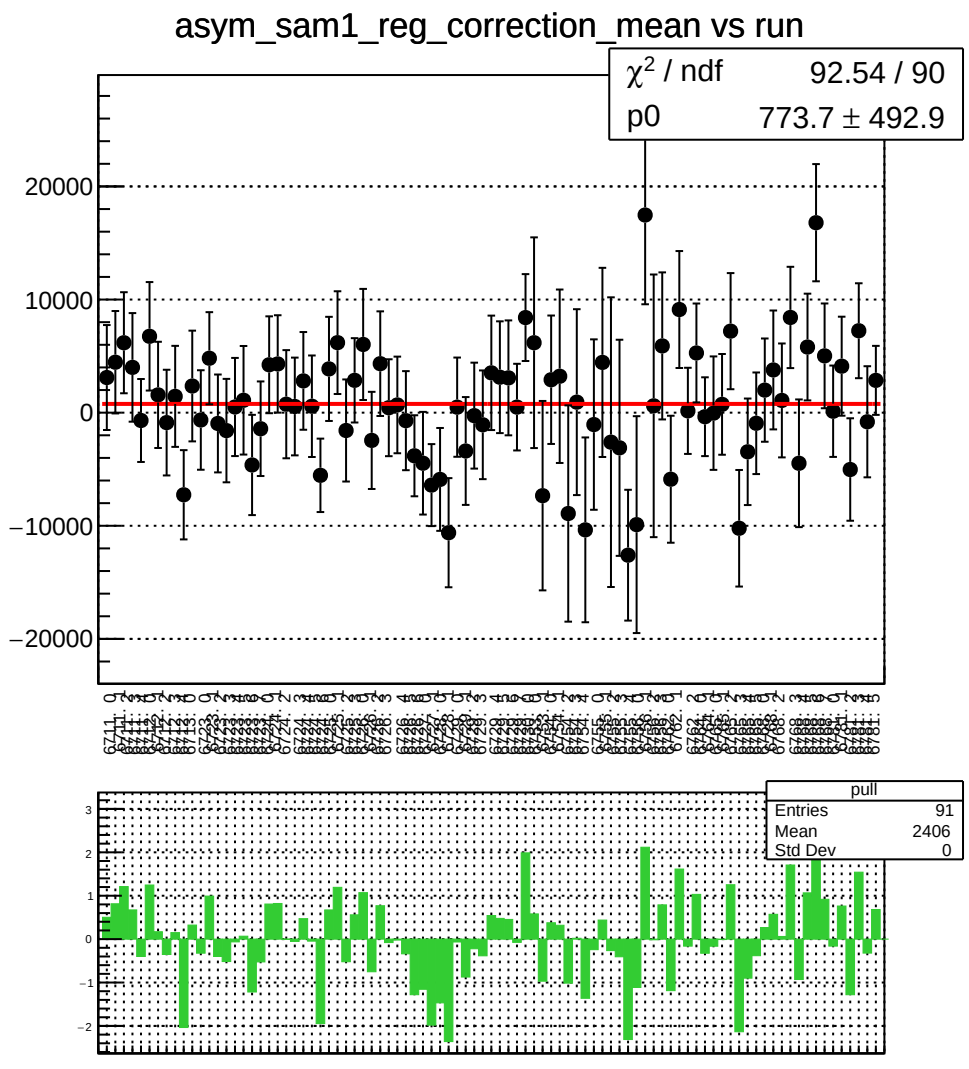

pull1D
Entries 91
Mean −2.955
Std Dev 4.024
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

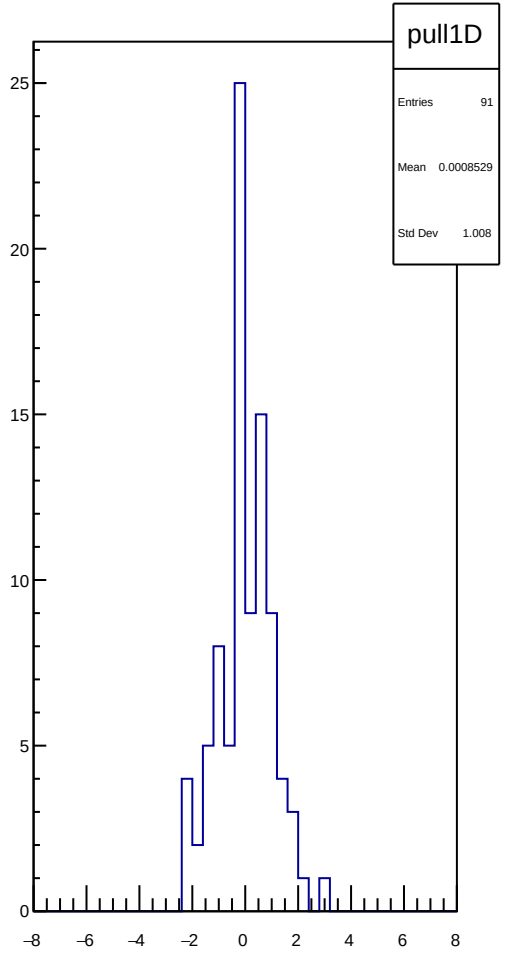

yield_sam8_rms vs run
χ^2 / ndf 3.301e+05 / 90
p0 0.006857 ± 5.648e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

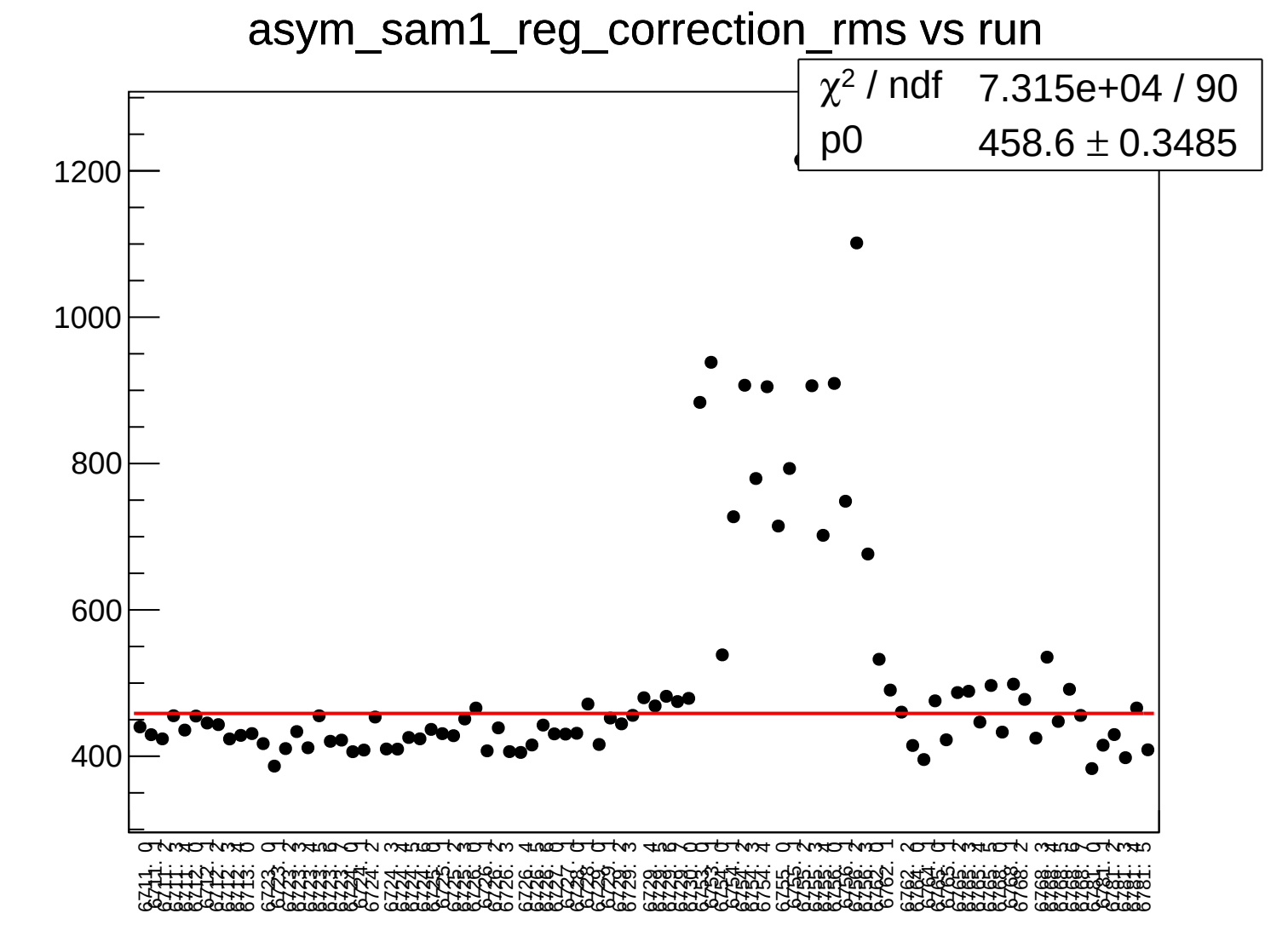

reg_asym_sam1_mean vs run
χ² / ndf 94.65 / 90
p0 300 ± 83.64
3000
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −18.42
Std Dev 0
2
1
0
−1
−2

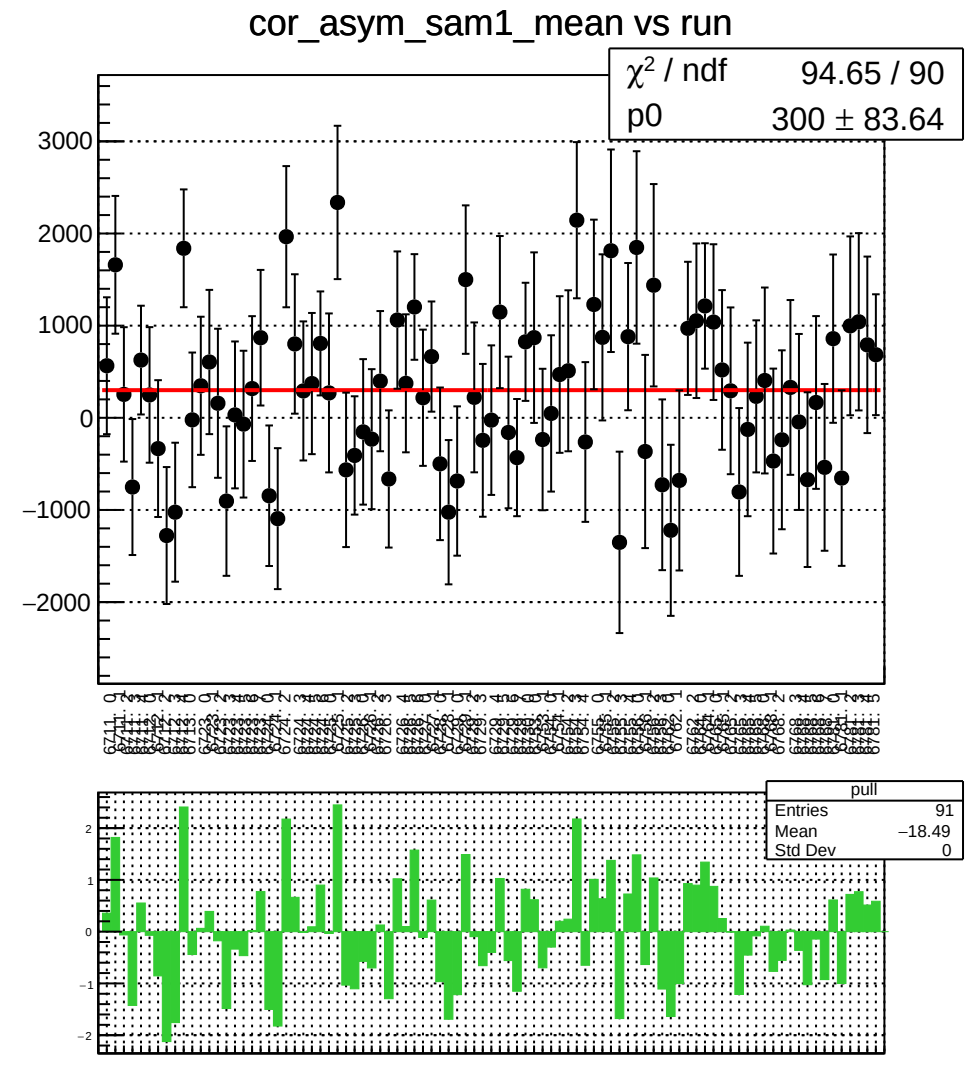

pull1D
Entries 91
Mean −0.01964
Std Dev 1.02
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

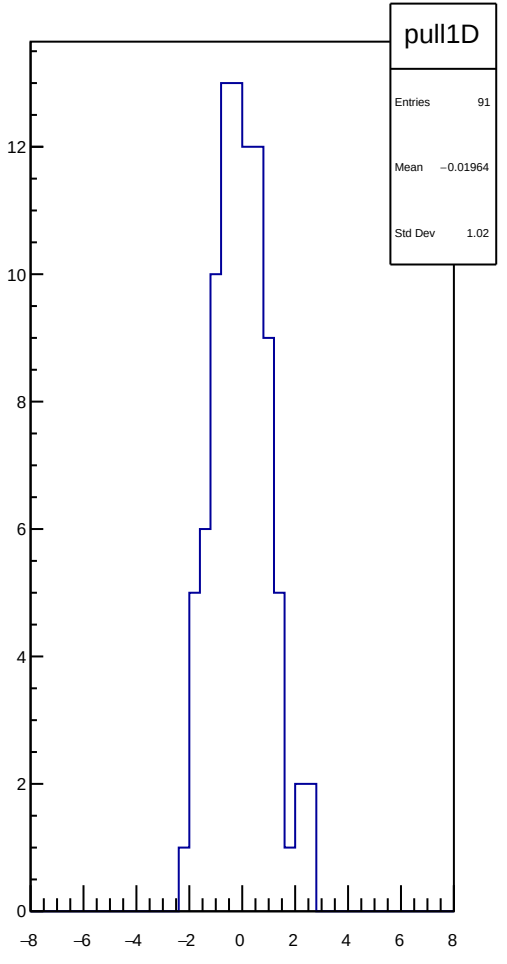

reg_asym_sam1_rms vs run
χ^2 / ndf 2.139e+04 / 90
p0 78.97 ± 0.05914
105
100
95
90
85
80
75
70
65
60

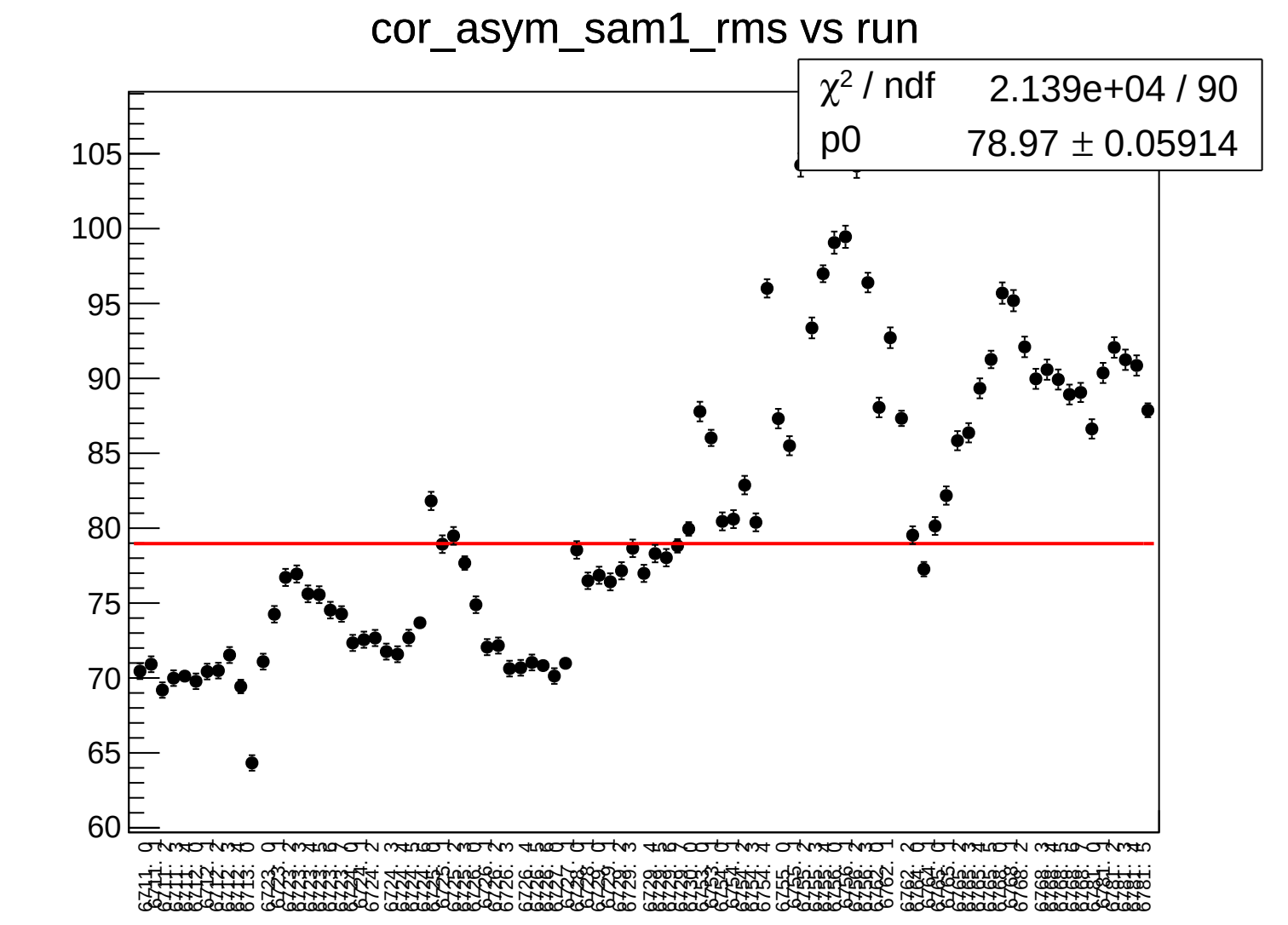

asym_sam1_reg_correction_mean vs run
χ² / ndf 92.54 / 90
p0 773.7 ± 492.9
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 2406
Std Dev 0
3
2
1
0
−1
−2

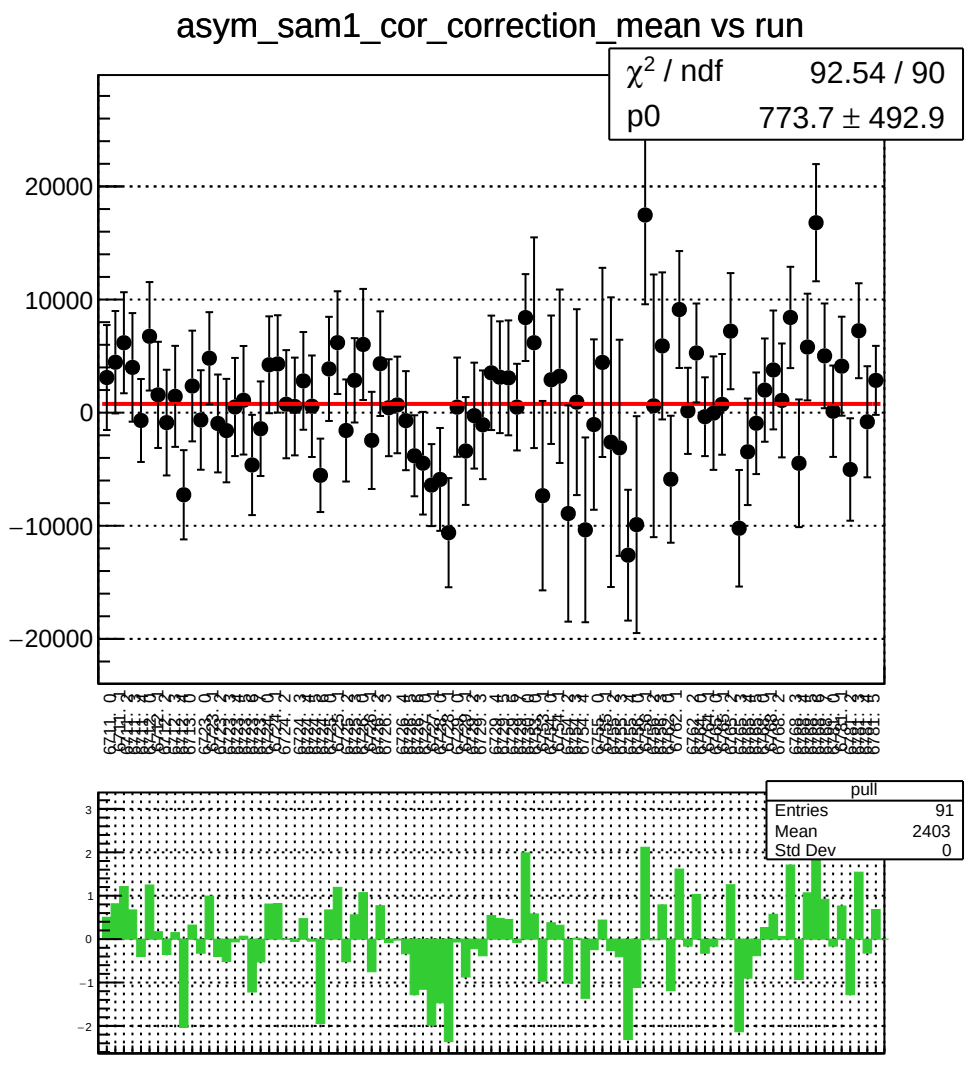

pull1D
Entries 91
Mean 0.0008529
Std Dev 1.008
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

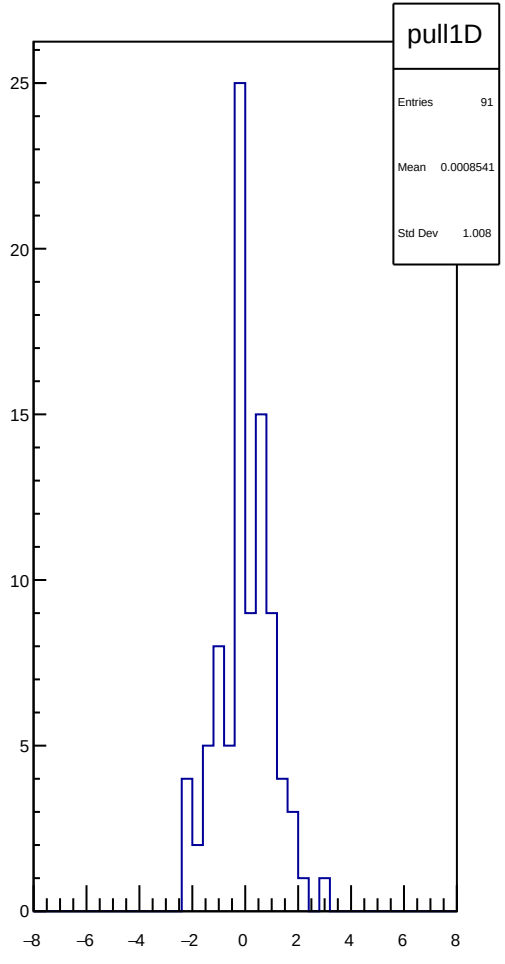

asym_sam1_reg_correction_rms vs run
χ² / ndf 7.315e+04 / 90
p0 458.6 ± 0.3485
1200
1000
800
600
400

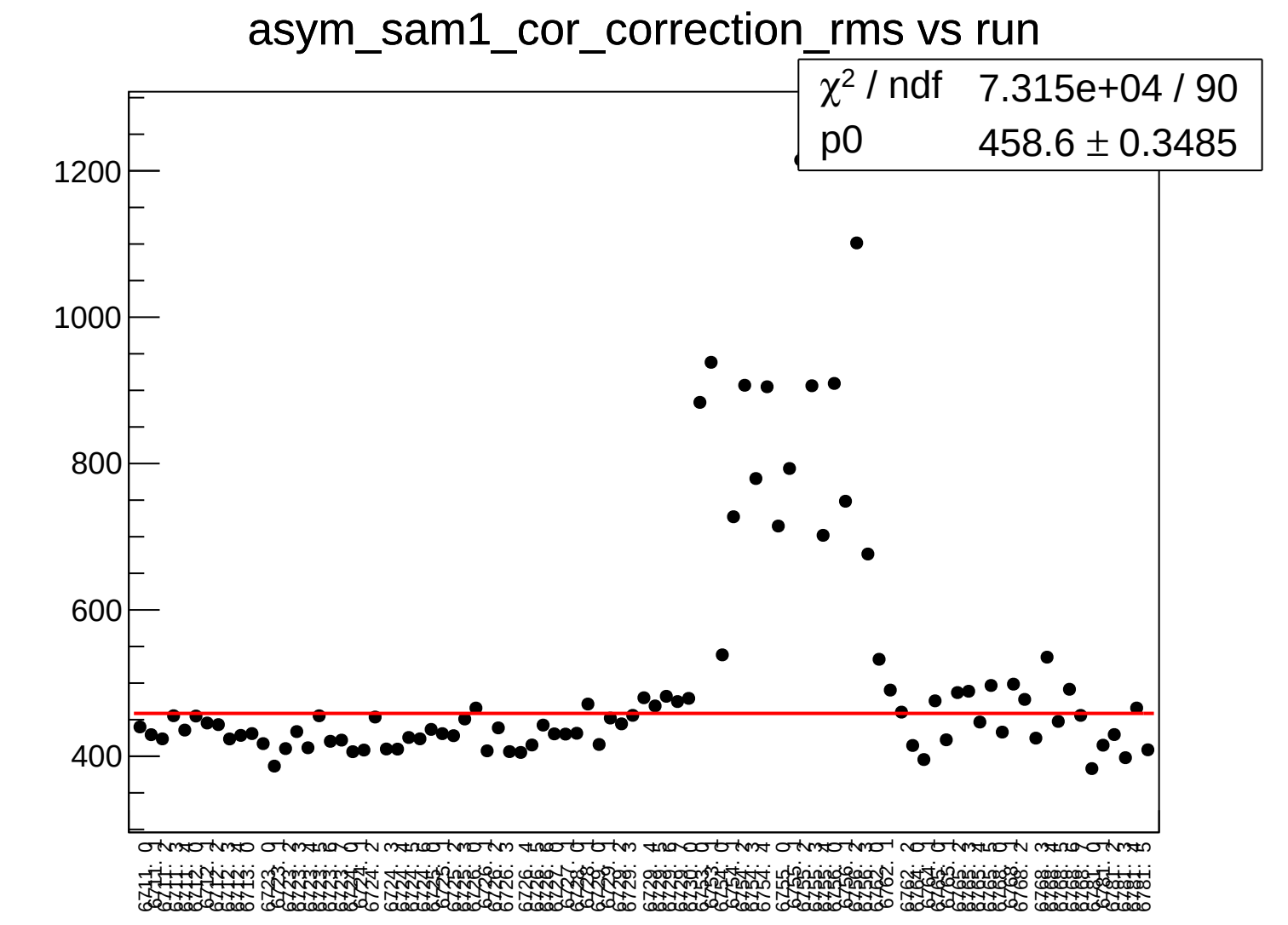

cor_asym_sam1_mean vs run
χ² / ndf 94.65 / 90
p0 300 ± 83.64
3000
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −18.49
Std Dev 0
2
1
0
−1
−2

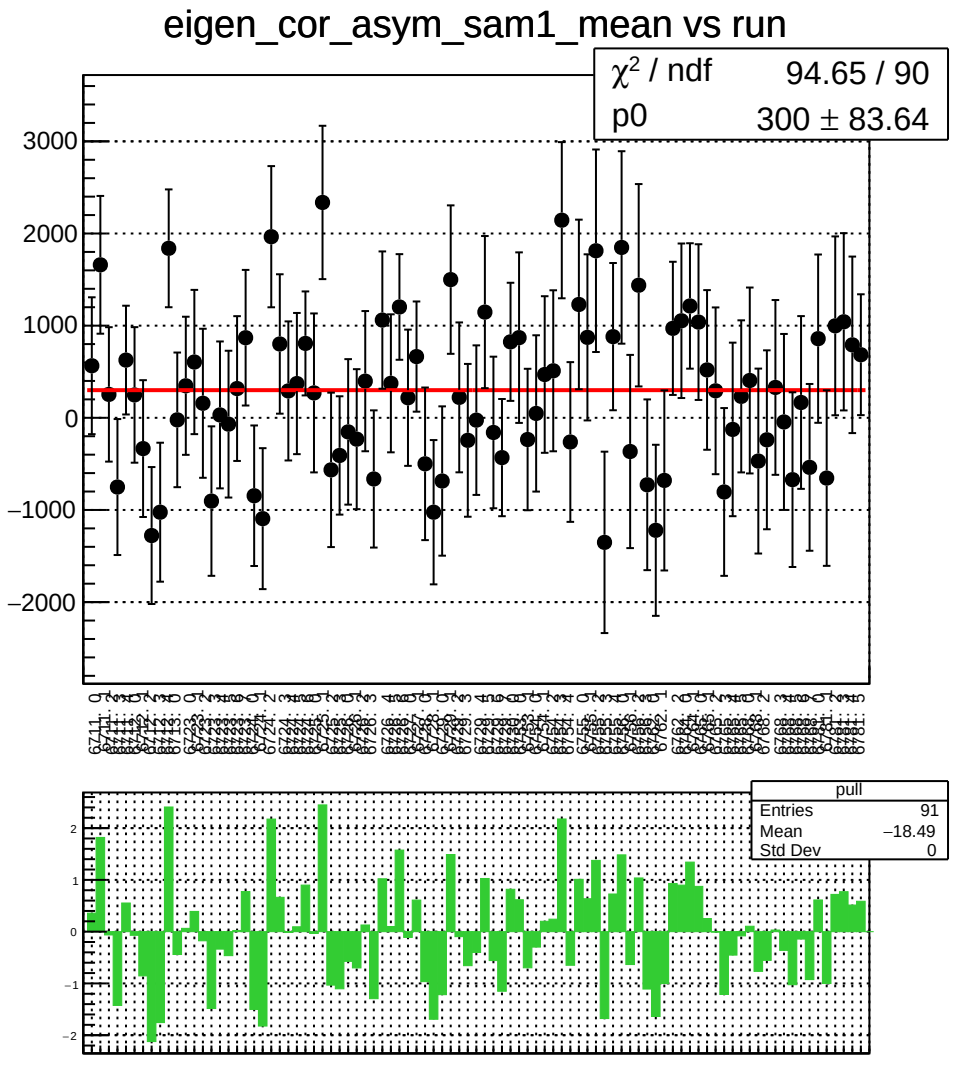

pull1D
Entries 91
Mean −0.01964
Std Dev 1.02
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

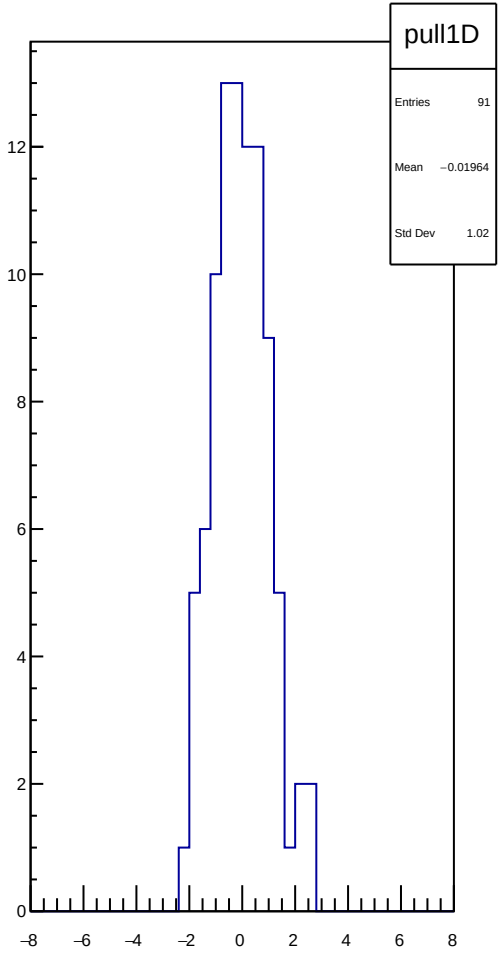

cor_asym_sam1_rms vs run
χ^2 / ndf 2.139e+04 / 90
p0 78.97 ± 0.05914
105
100
95
90
85
80
75
70
65
60

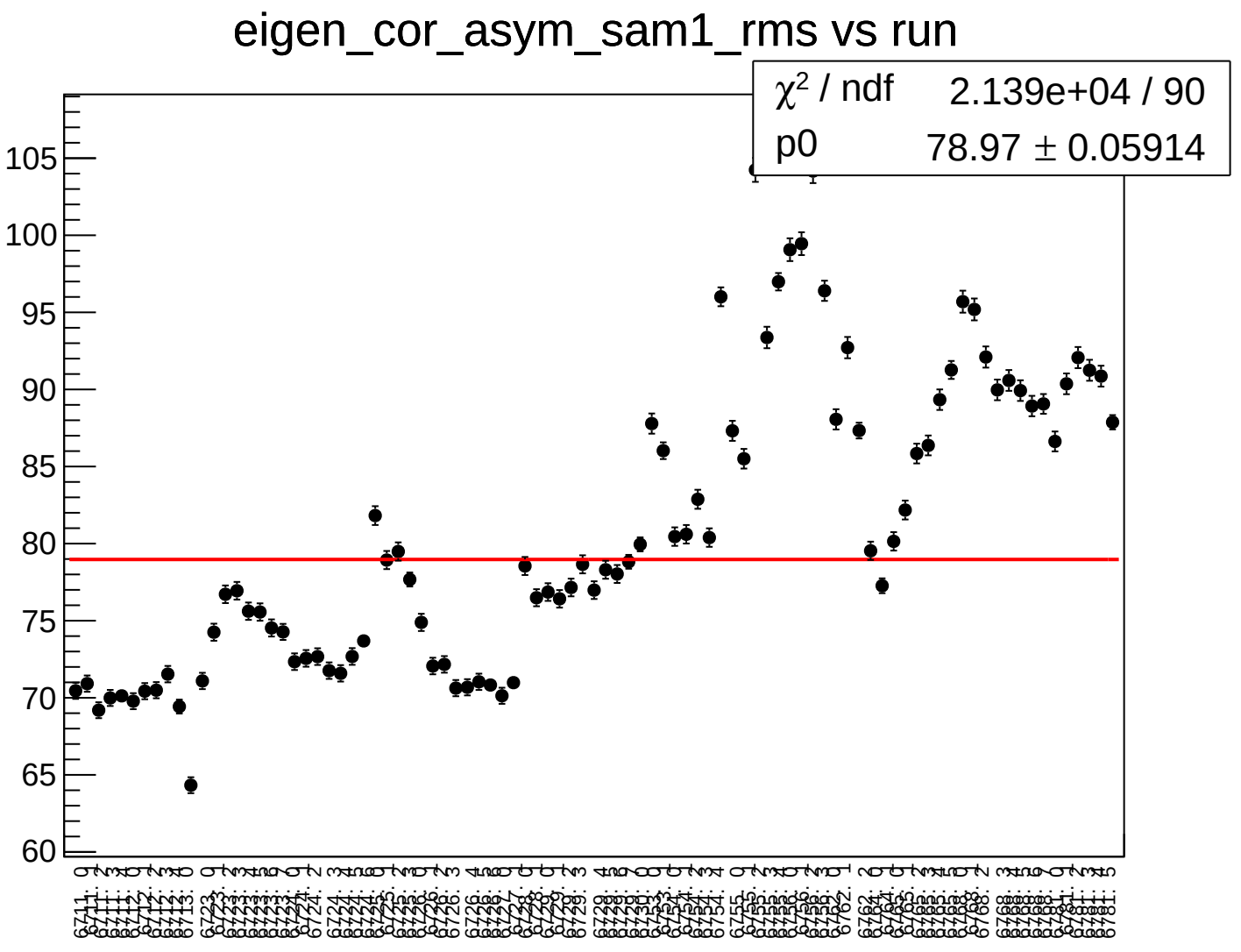

asym_sam1_cor_correction_mean vs run
χ² / ndf 92.54 / 90
p0 773.7 ± 492.9
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 2403
Std Dev 0
3
2
1
0
−1
−2

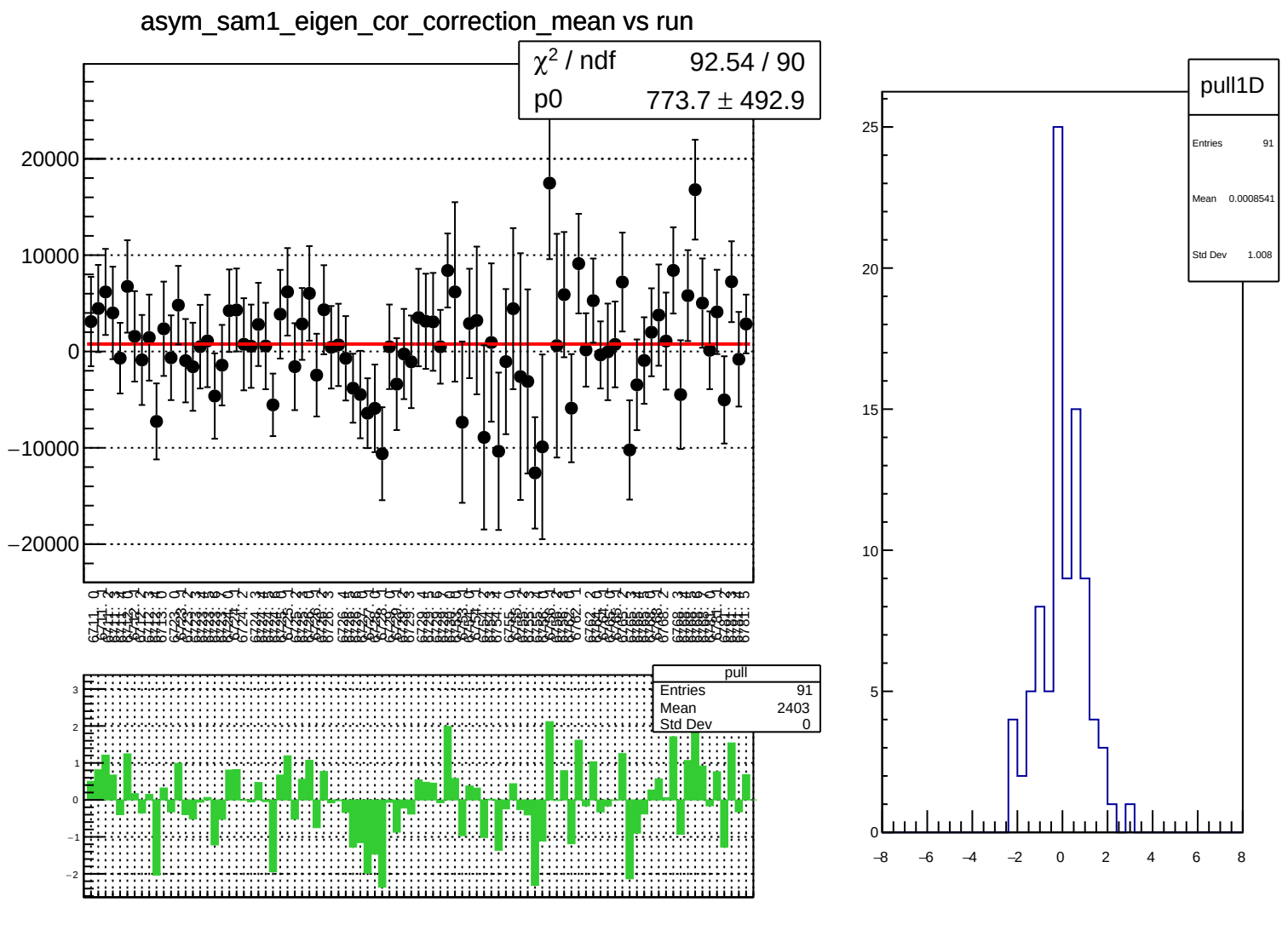

pull1D
Entries 91
Mean 0.0008541
Std Dev 1.008
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

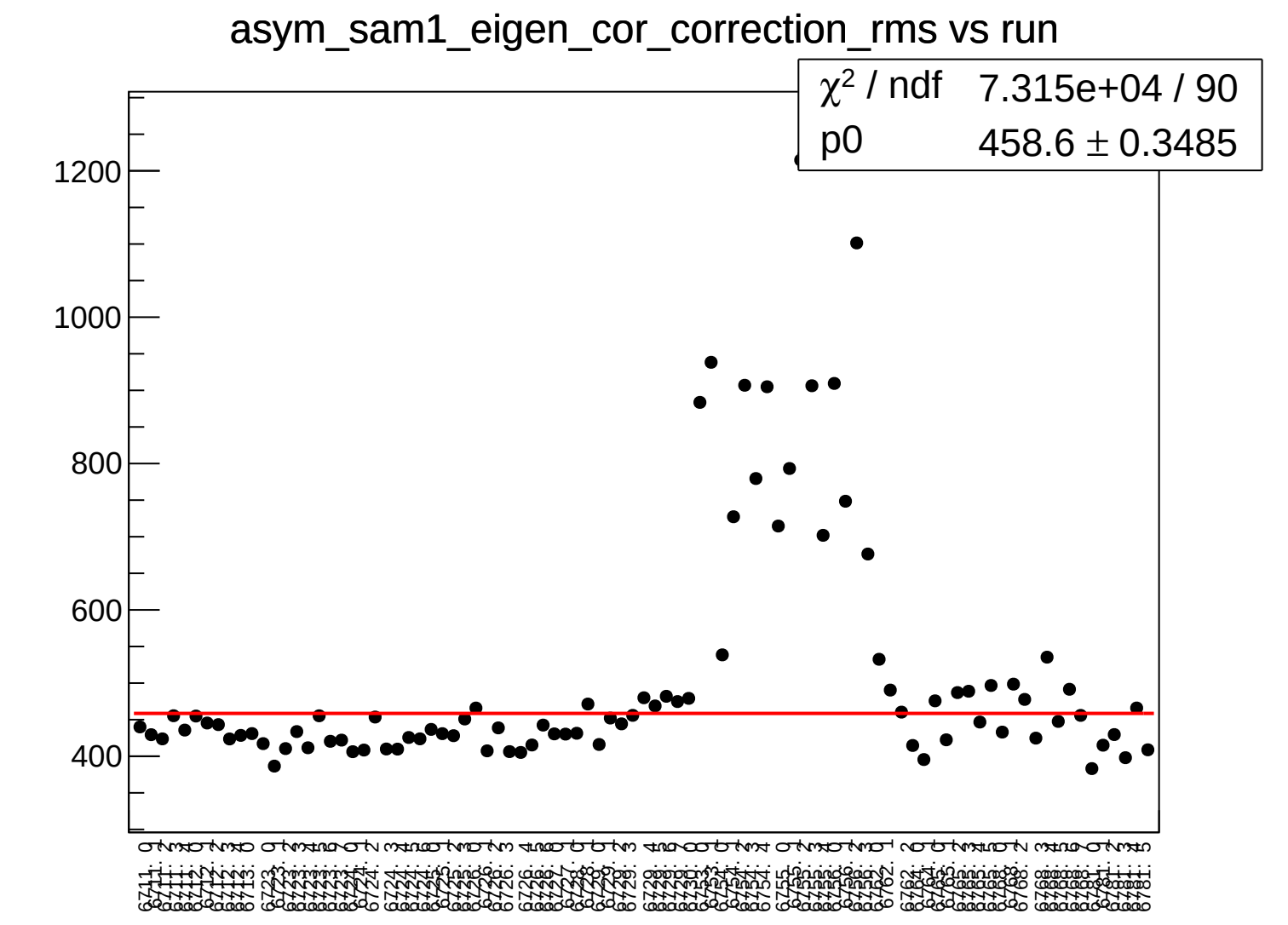

asym_sam1_cor_correction_rms vs run
χ² / ndf 7.315e+04 / 90
p0 458.6 ± 0.3485
1200
1000
800
600
400

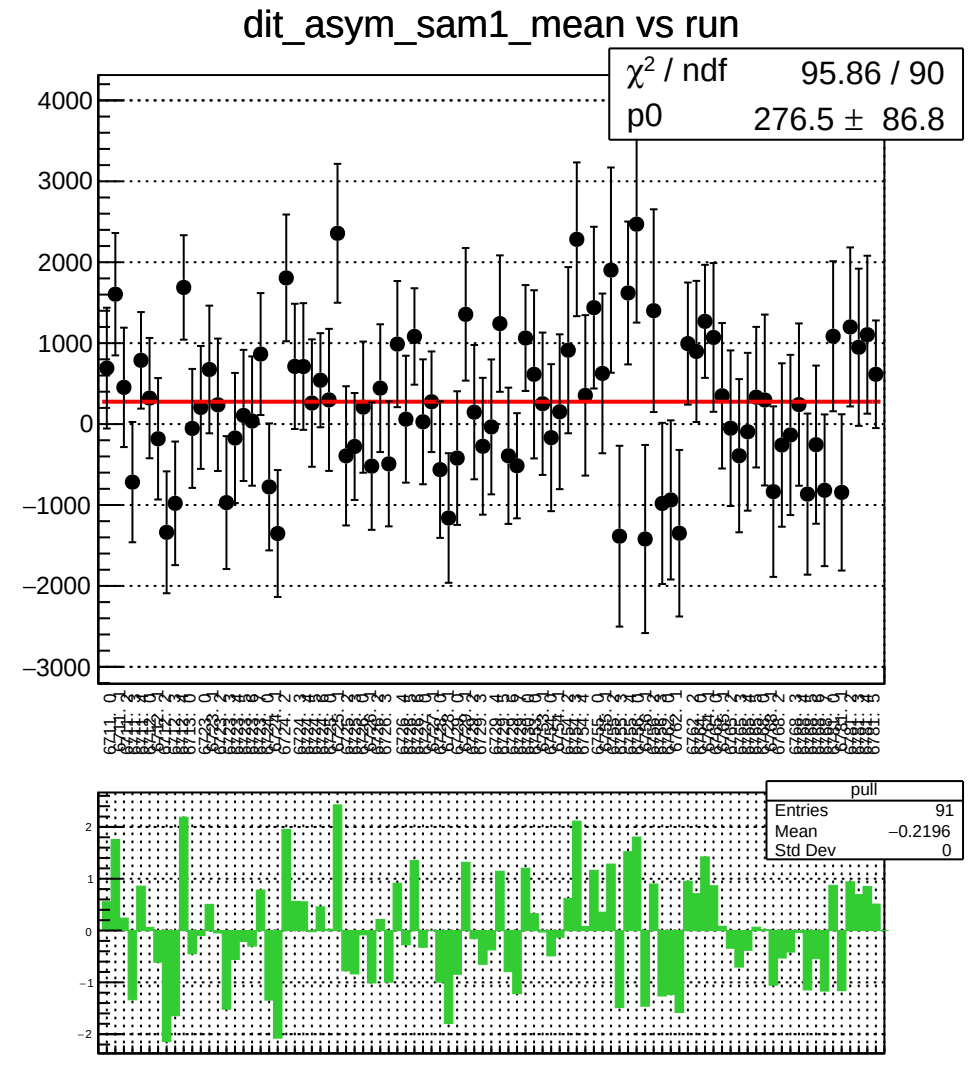

eigen_cor_asym_sam1_mean vs run
χ² / ndf 94.65 / 90
p0 300 ± 83.64
3000
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −18.49
Std Dev 0
2
1
0
−1
−2

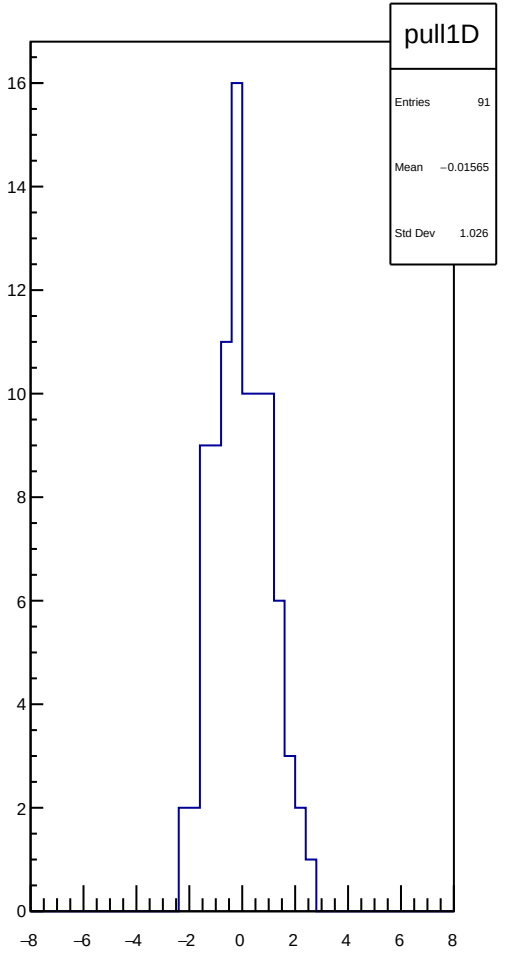

pull1D
Entries 91
Mean −0.01964
Std Dev 1.02
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

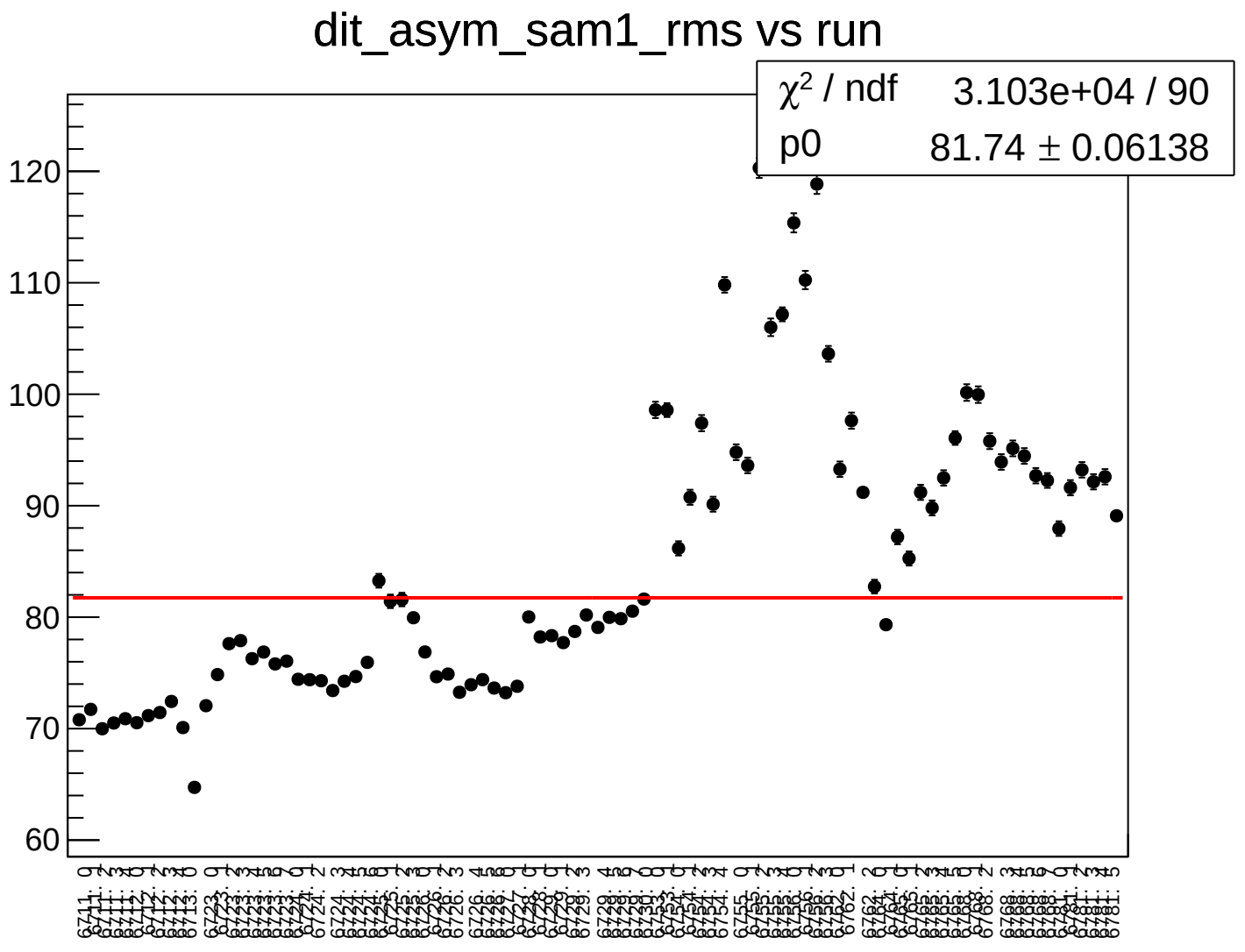

eigen_cor_asym_sam1_rms vs run
χ^2 / ndf 2.139e+04 / 90
p0 78.97 ± 0.05914
105
100
95
90
85
80
75
70
65
60

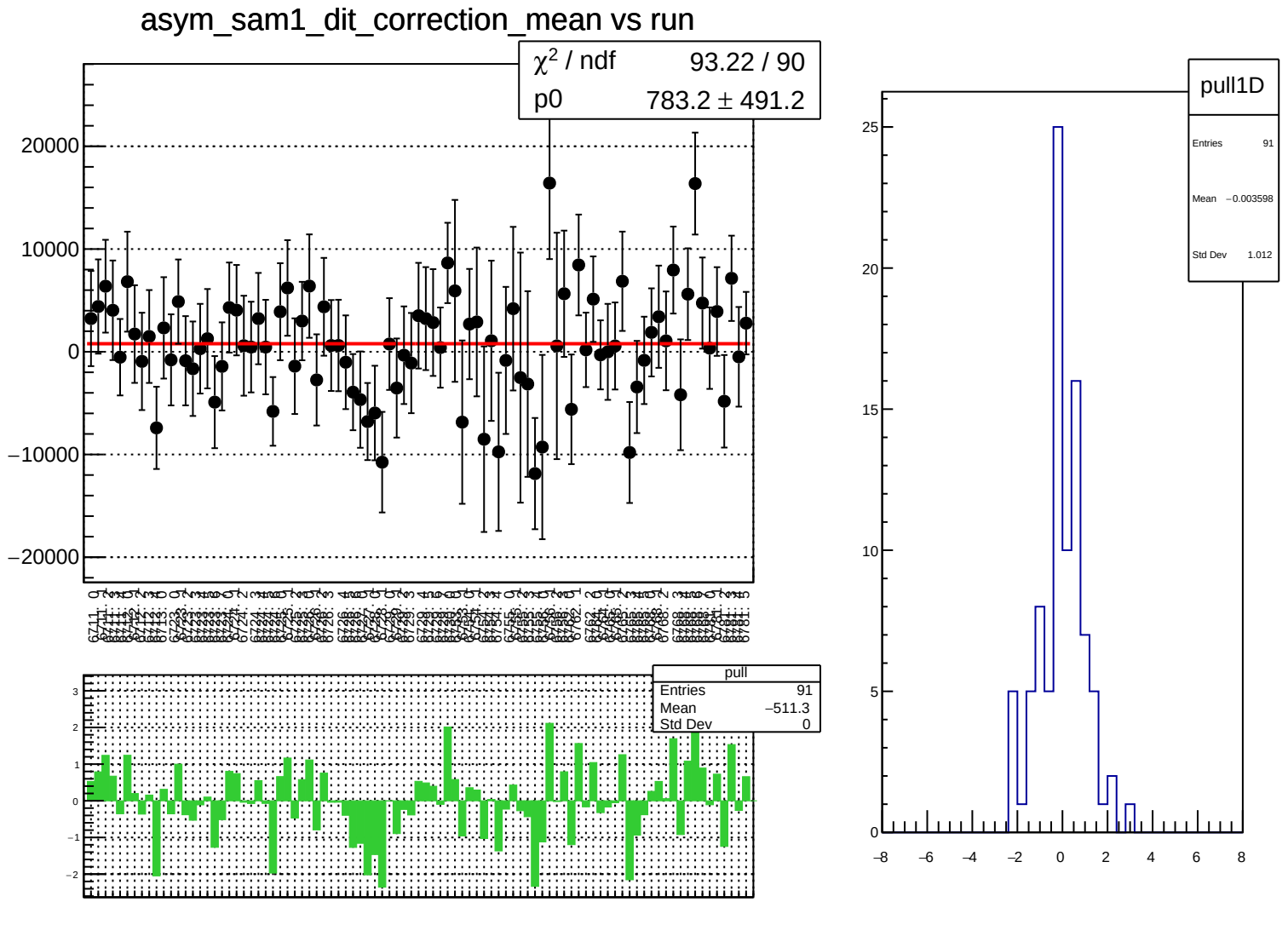

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 92.54 / 90
p0 773.7 ± 492.9
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 2403
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.0008541
Std Dev 1.008
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

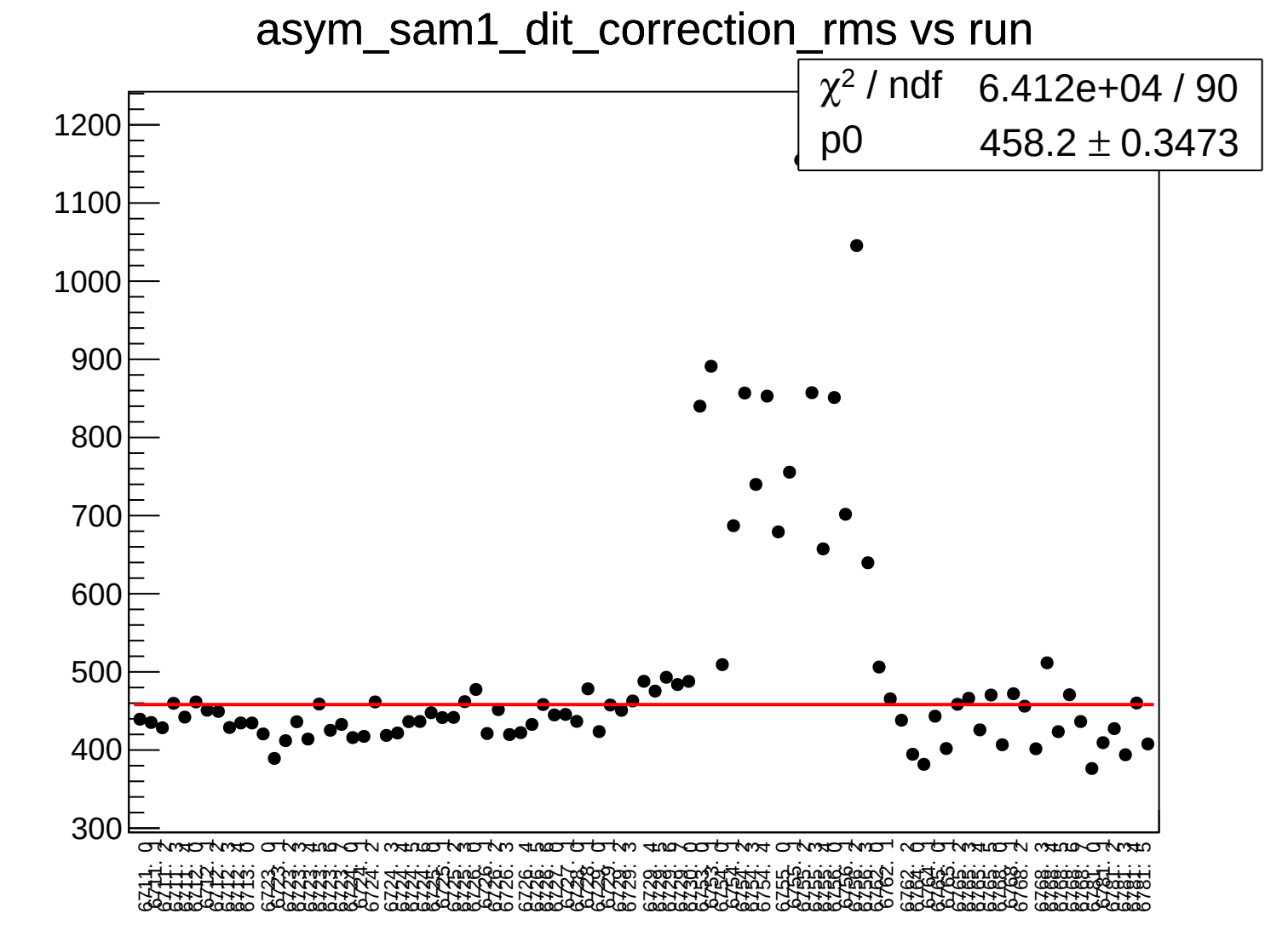

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 7.315e+04 / 90
p0 458.6 ± 0.3485
1200
1000
800
600
400

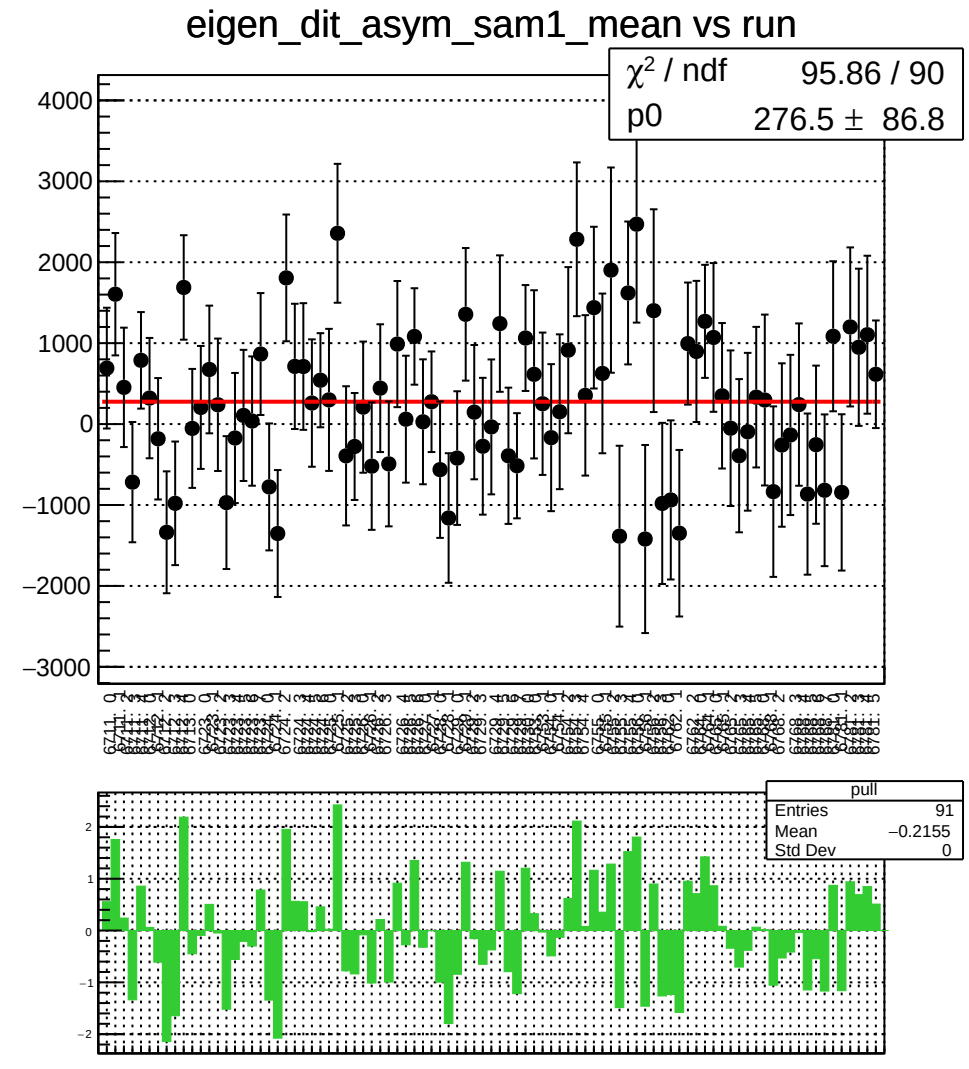

dit_asym_sam1_mean vs run
χ² / ndf 95.86 / 90
p0 276.5 ± 86.8
pull
Entries 91
Mean −0.2196
Std Dev 0

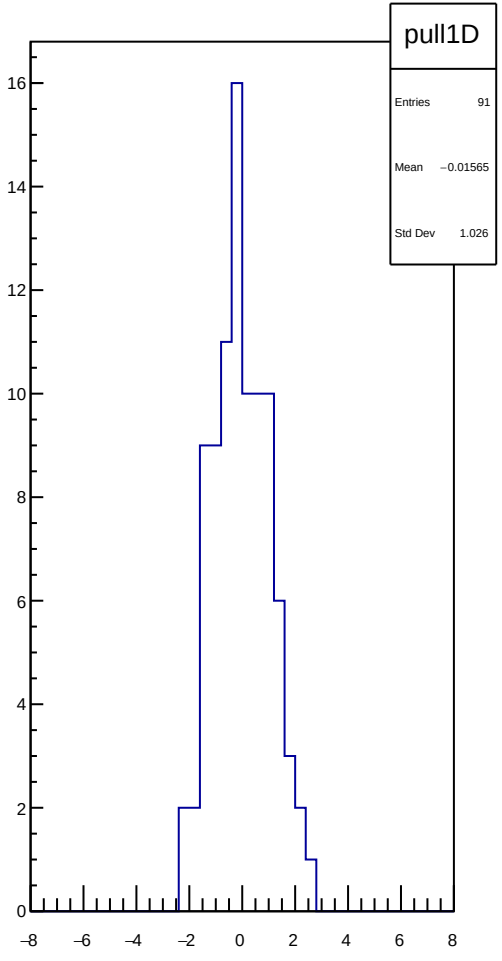

pull1D
Entries 91
Mean −0.01565
Std Dev 1.026

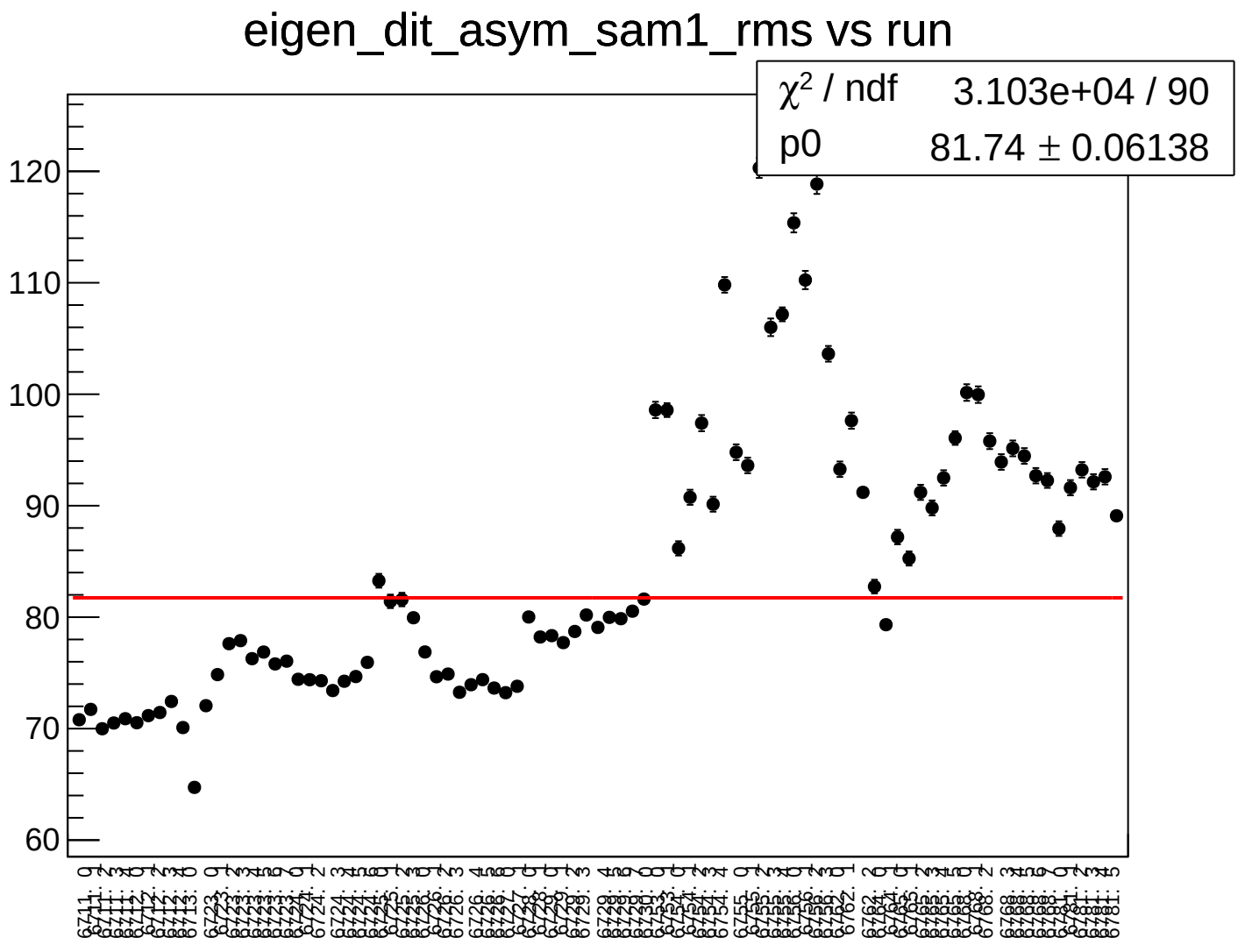

dit_asym_sam1_rms vs run
χ^2 / ndf 3.103e+04 / 90
p0 81.74 ± 0.06138
120
110
100
90
80
70
60

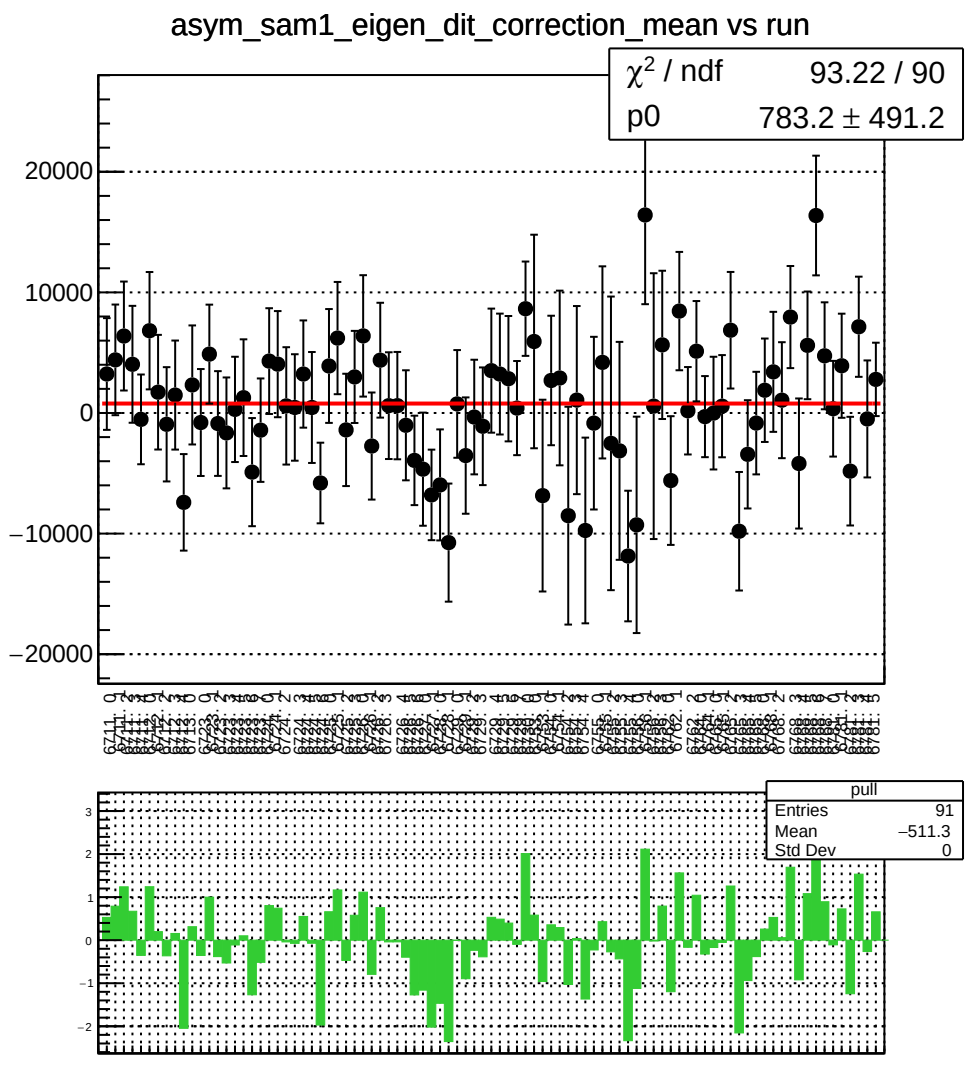

asym_sam1_dit_correction_mean vs run
χ² / ndf 93.22 / 90
p0 783.2 ± 491.2
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −511.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.003598
Std Dev 1.012
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

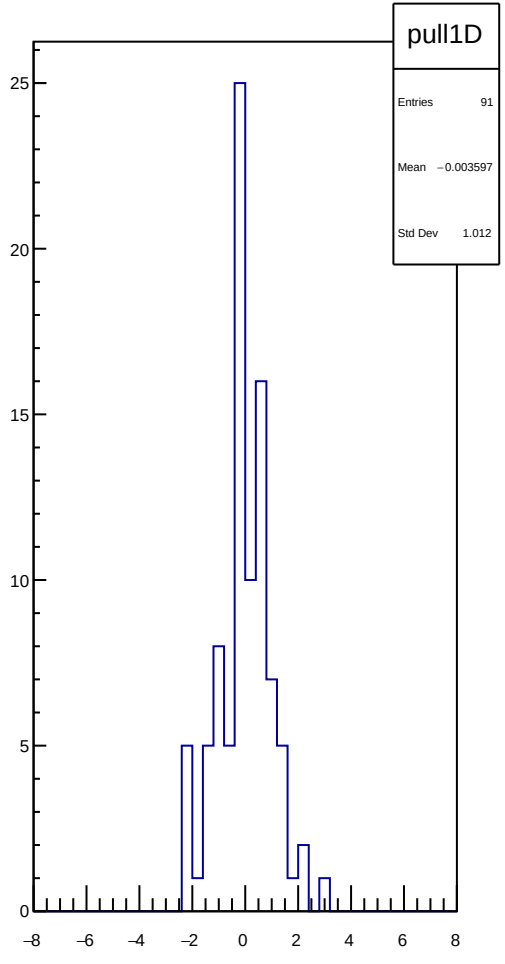

asym_sam1_dit_correction_rms vs run
χ² / ndf 6.412e+04 / 90
p0 458.2 ± 0.3473
1200
1100
1000
900
800
700
600
500
400
300

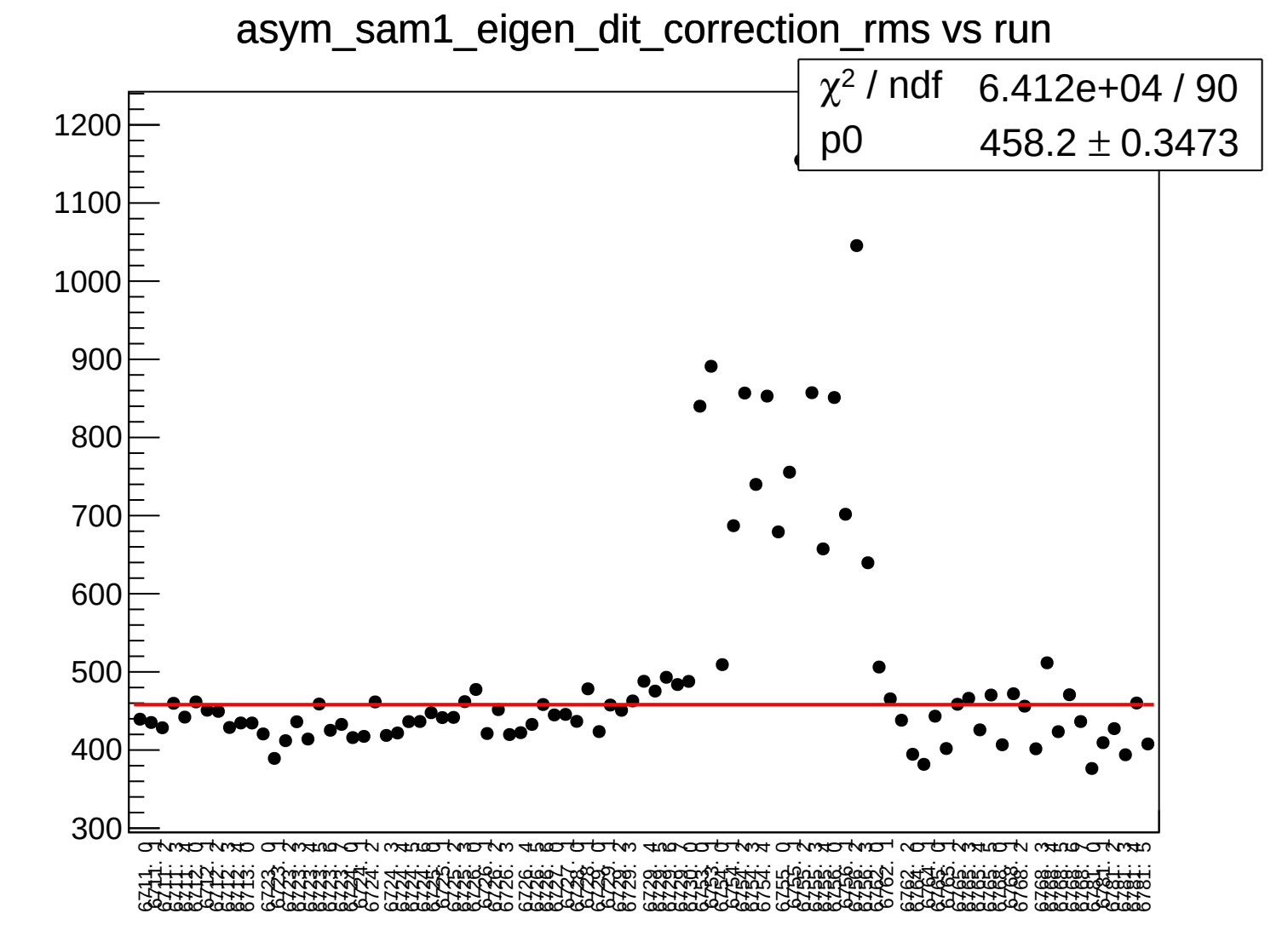

eigen_dit_asym_sam1_mean vs run
χ² / ndf 95.86 / 90
p0 276.5 ± 86.8
pull
Entries 91
Mean −0.2155
Std Dev 0

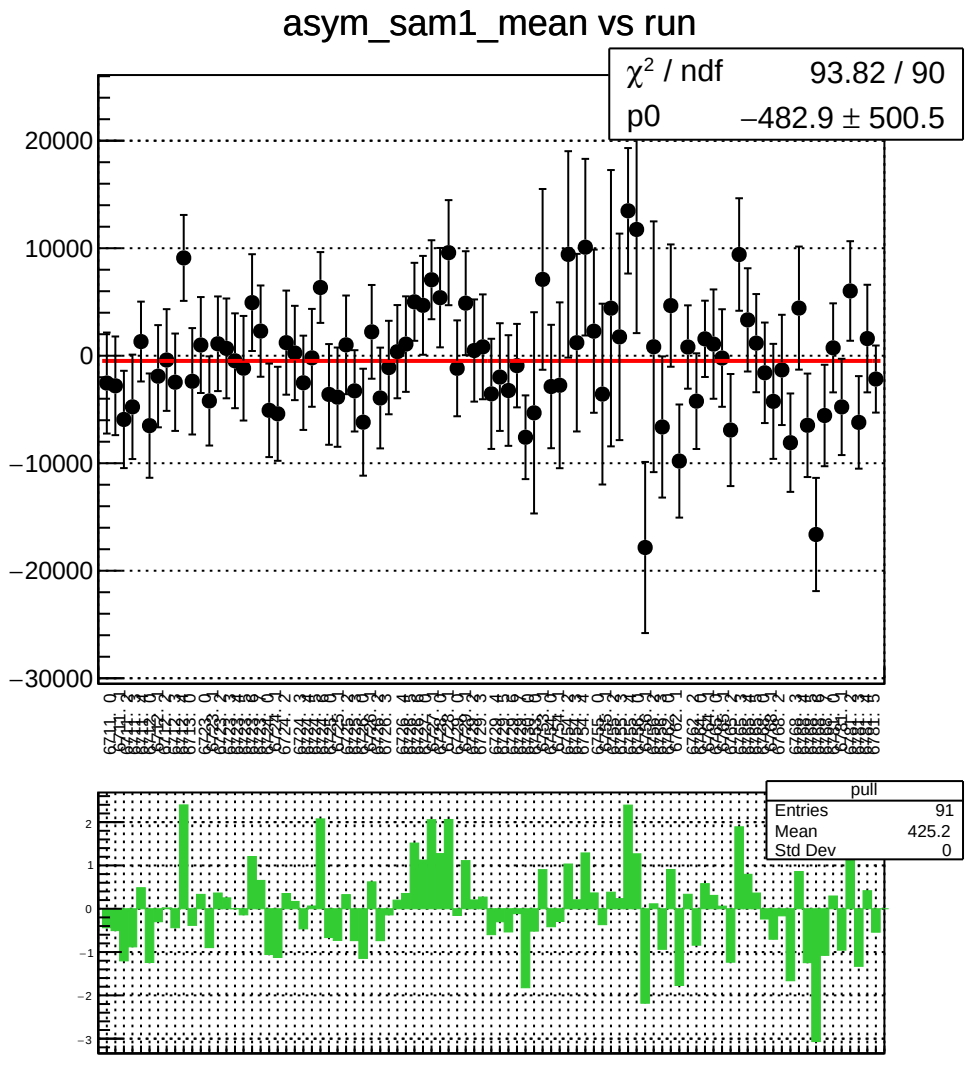

pull1D
Entries 91
Mean −0.01565
Std Dev 1.026

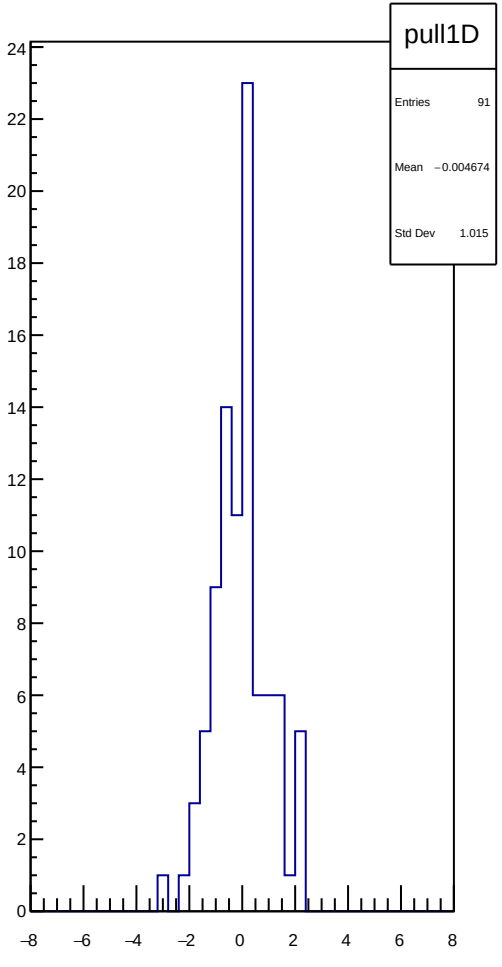

eigen_dit_asym_sam1_rms vs run
χ² / ndf 3.103e+04 / 90
p0 81.74 ± 0.06138
120
110
100
90
80
70
60

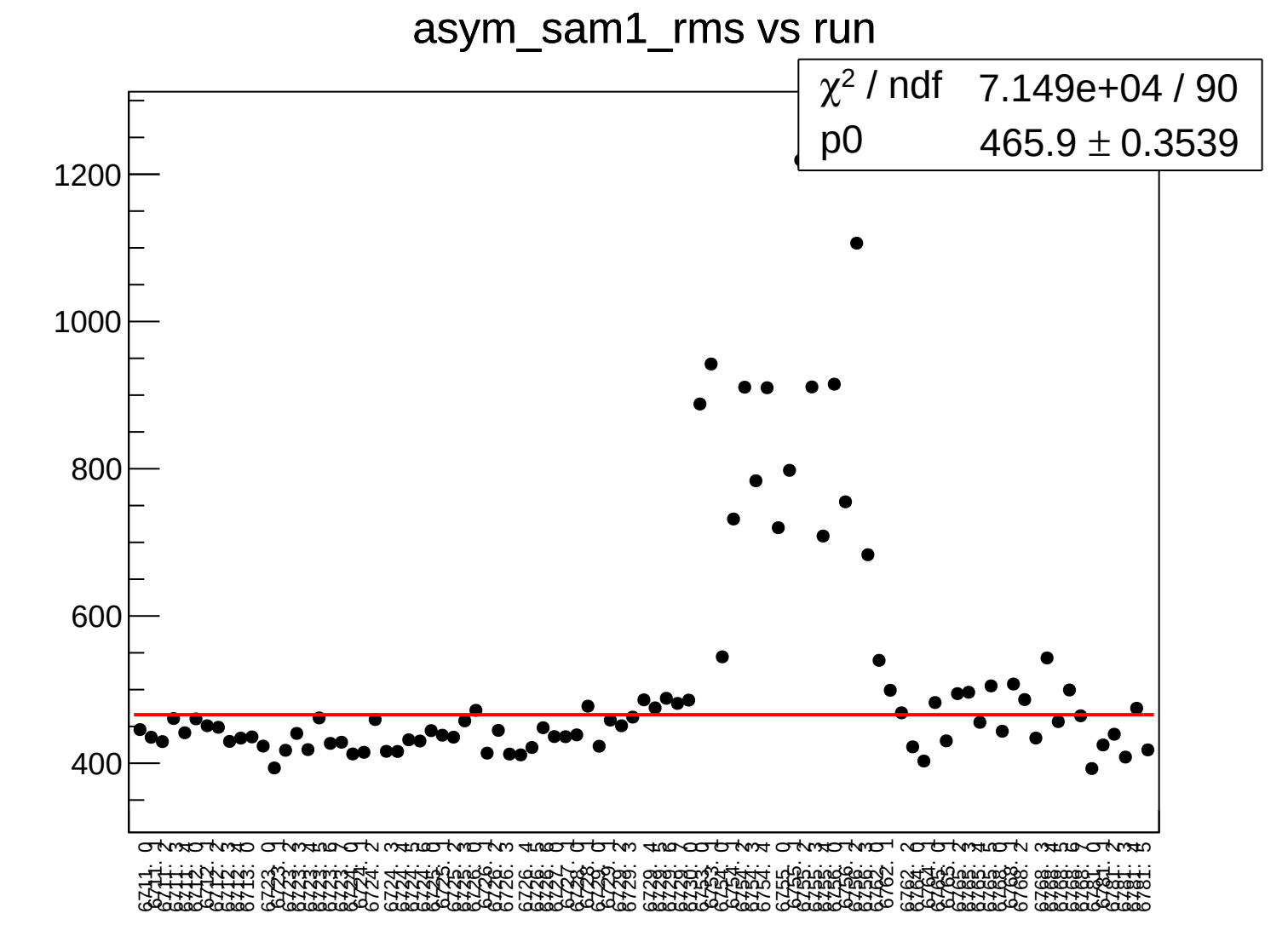

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 93.22 / 90
p0 783.2 ± 491.2
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −511.3
Std Dev 0
3
2
1
0
−1
−2

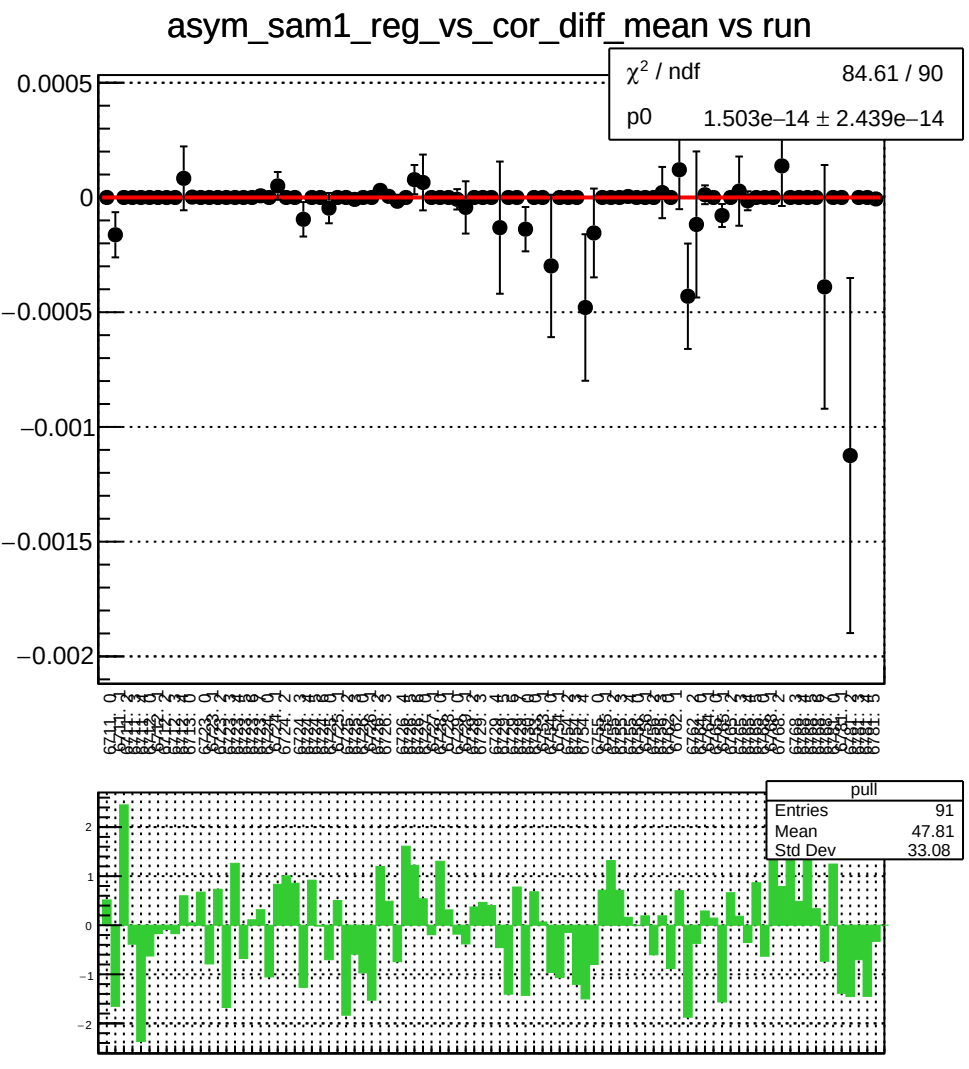

pull1D
Entries 91
Mean −0.003597
Std Dev 1.012
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

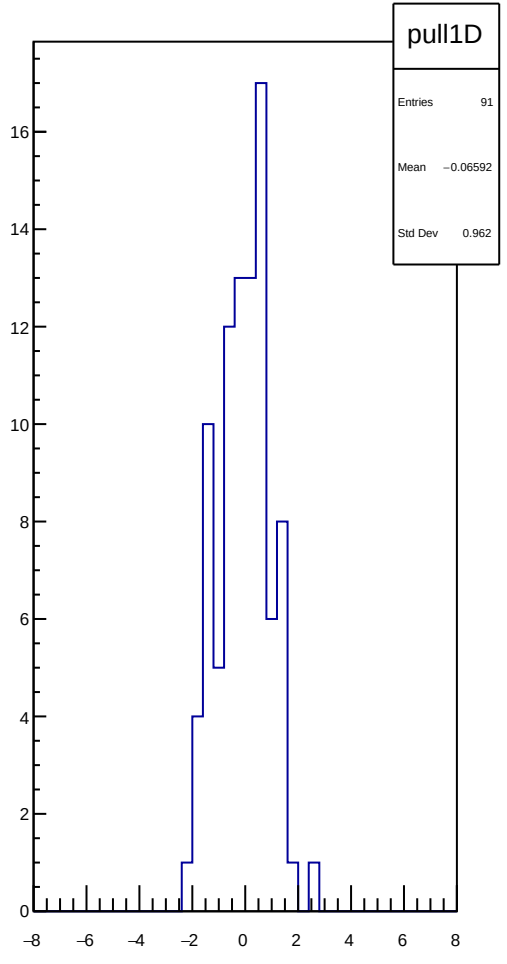

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 6.412e+04 / 90
p0 458.2 ± 0.3473
1200
1100
1000
900
800
700
600
500
400
300

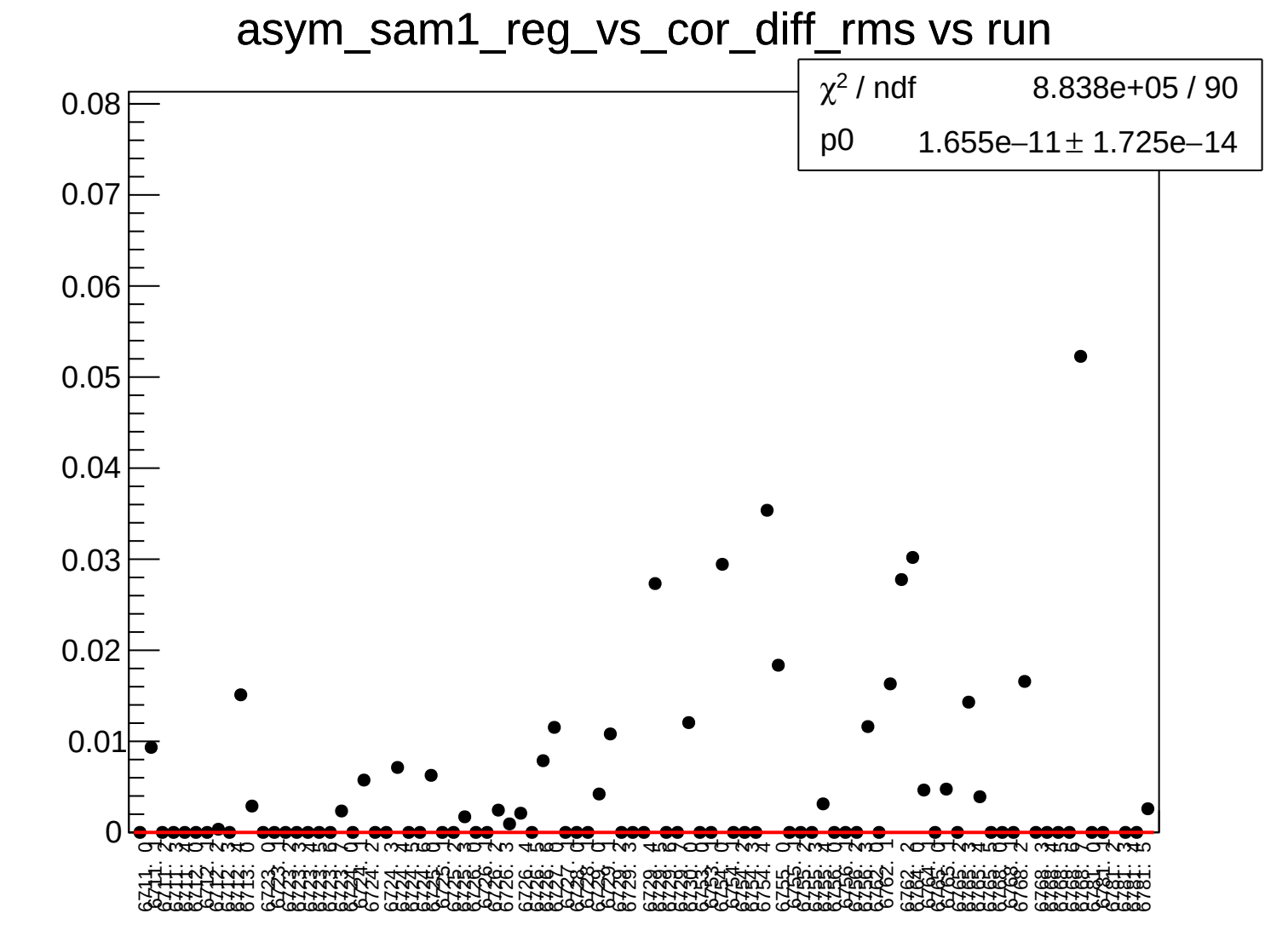

asym_sam1_mean vs run
χ² / ndf 93.82 / 90
p0 −482.9 ± 500.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 425.2
Std Dev 0
2
1
0
−1
−2
−3

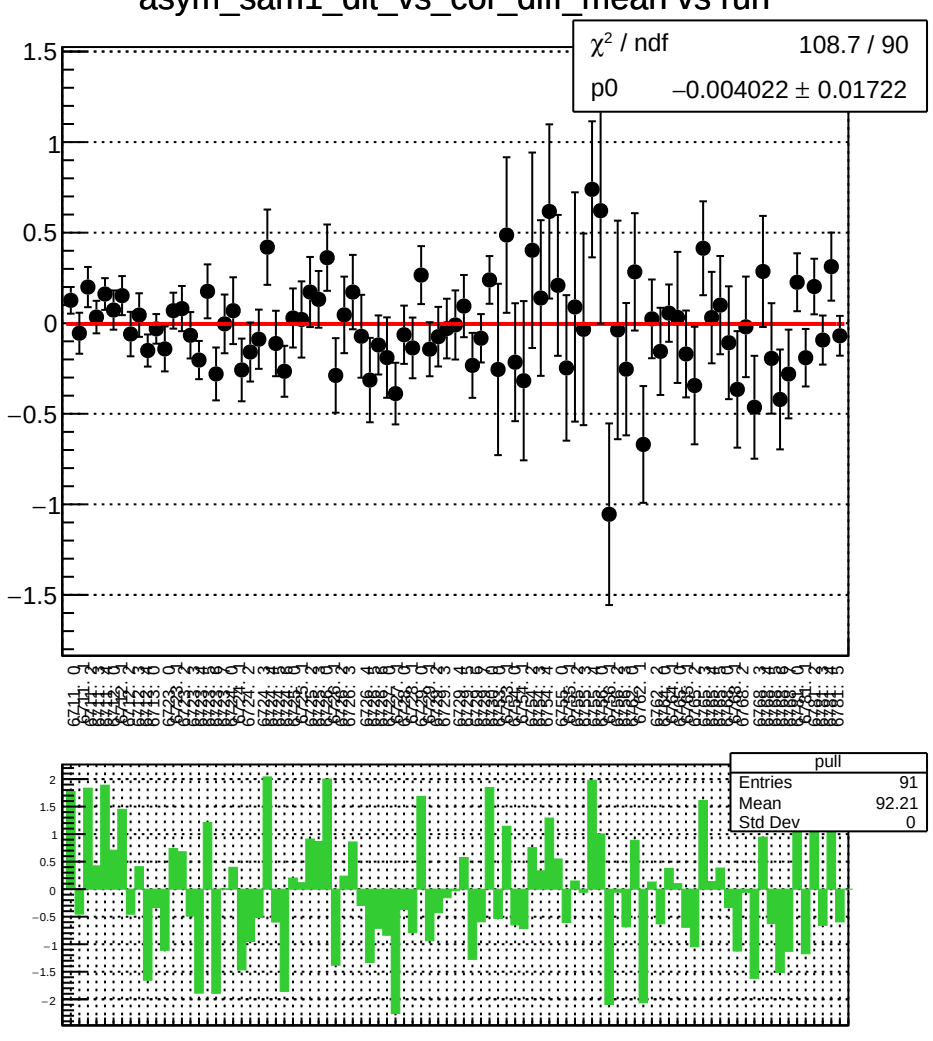

pull1D
Entries 91
Mean −0.004674
Std Dev 1.015
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

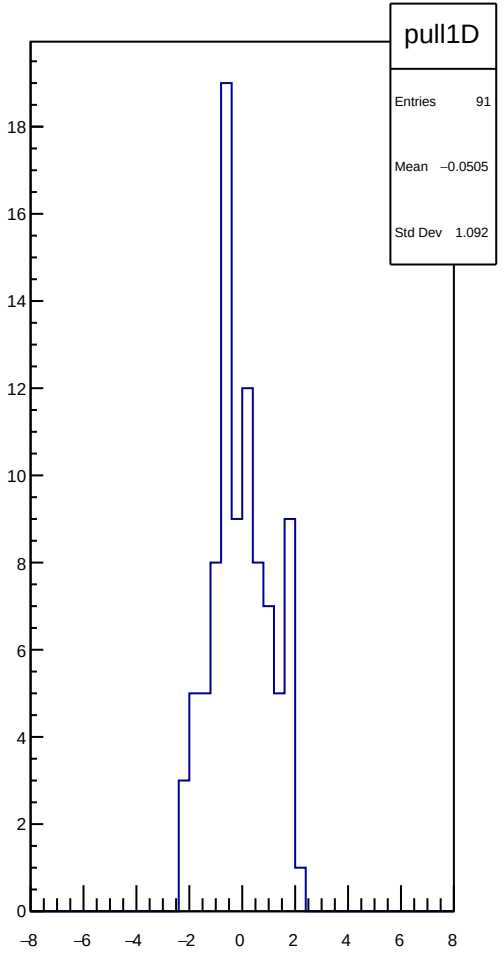

asym_sam1_rms vs run
χ^2 / ndf 7.149e+04 / 90
p0 465.9 ± 0.3539
1200
1000
800
600
400

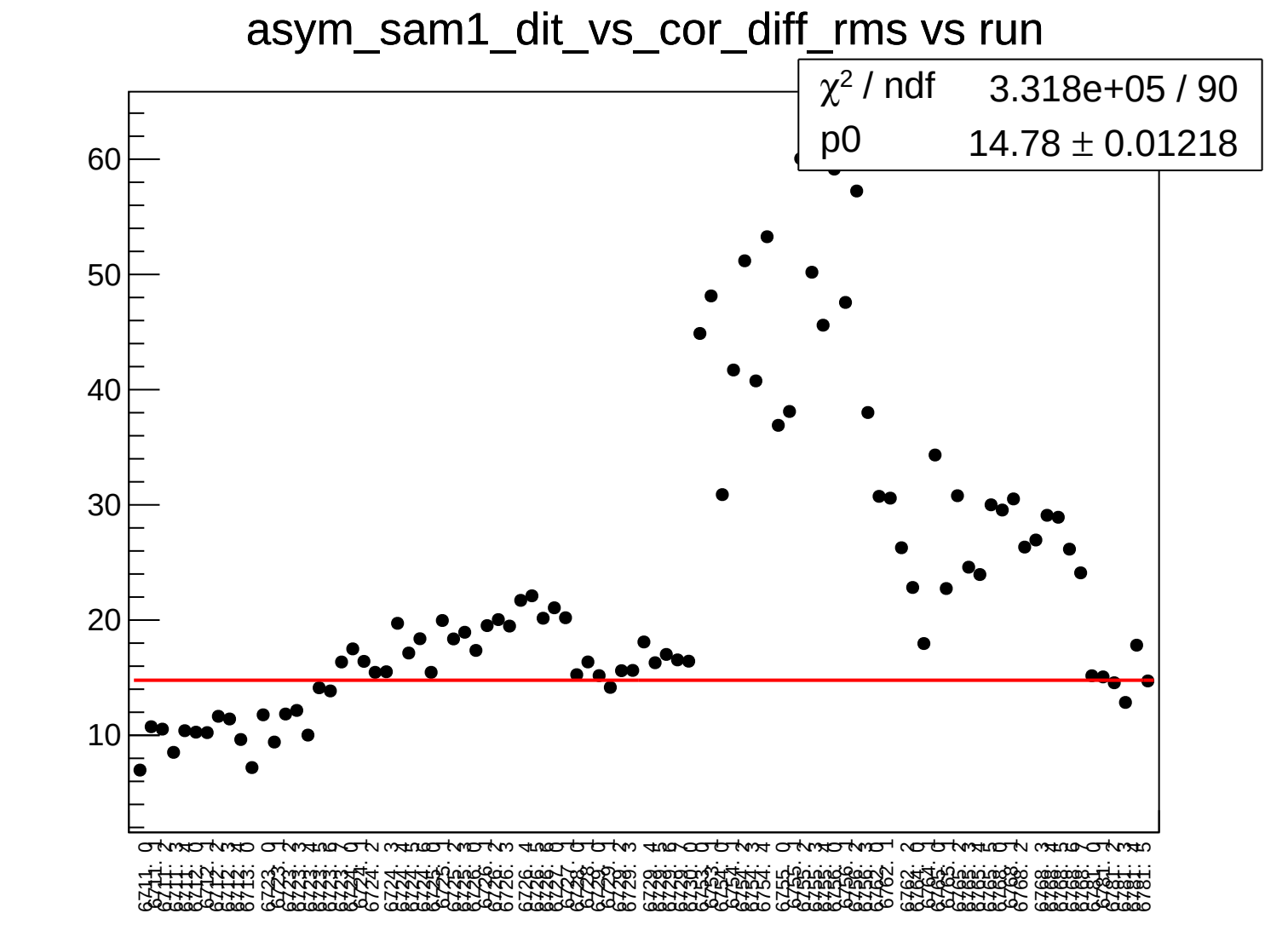

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 84.61 / 90
p0 1.503e−14 ± 2.439e−14
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 91
Mean 47.81
Std Dev 33.08
2
1
0
−1
−2

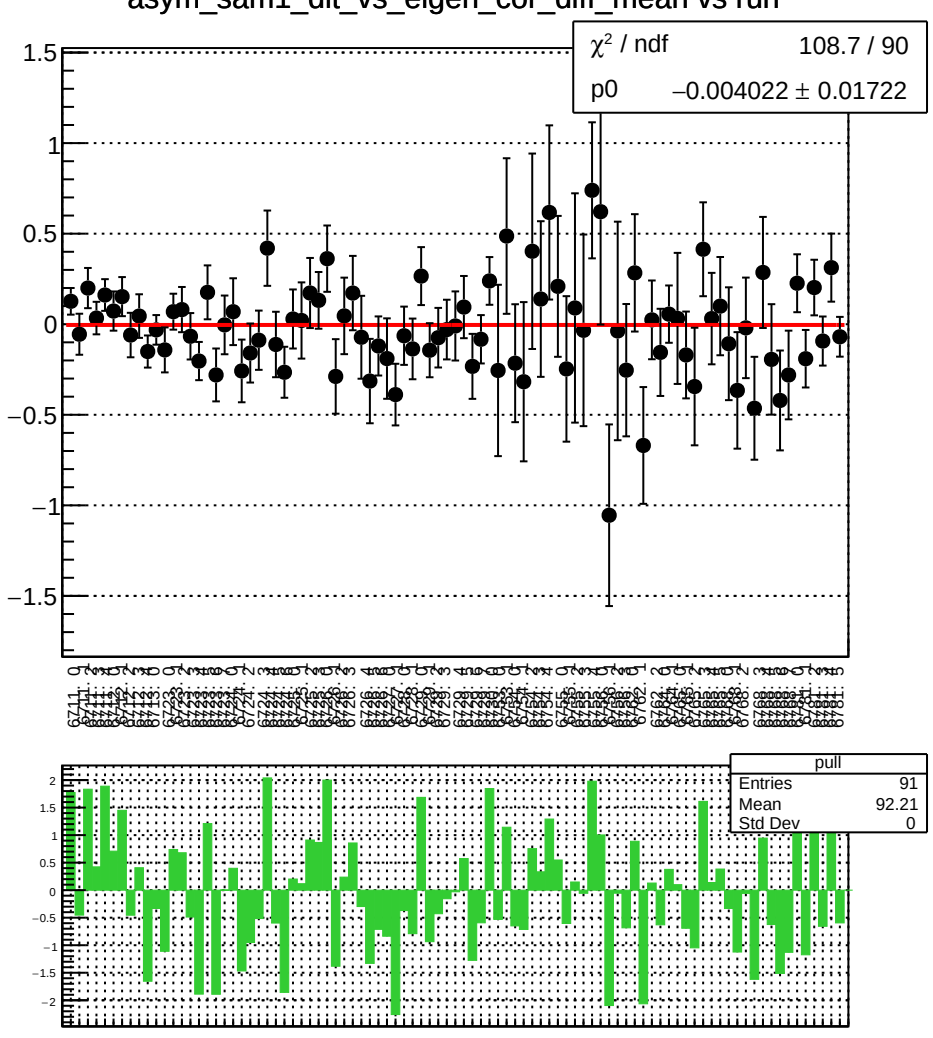

pull1D
Entries 91
Mean −0.06592
Std Dev 0.962
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

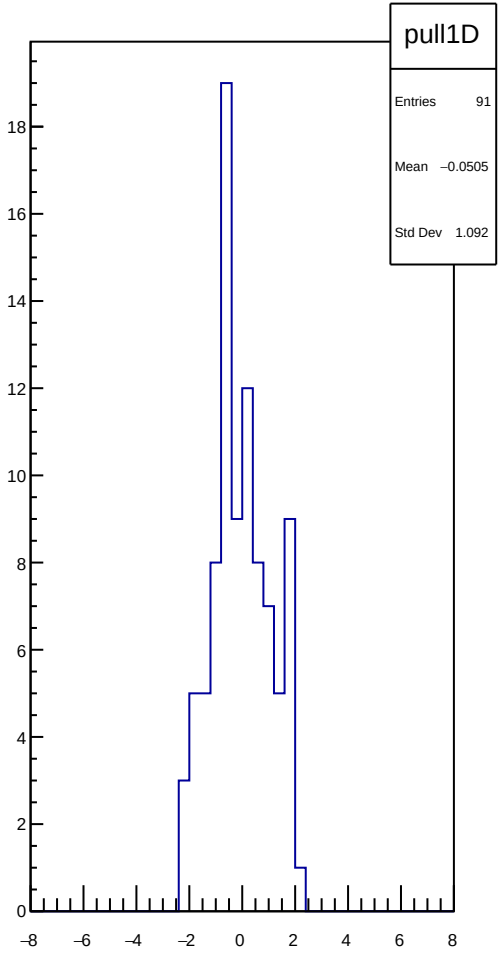

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 8.838e+05 / 90
p0 1.655e−11 ± 1.725e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

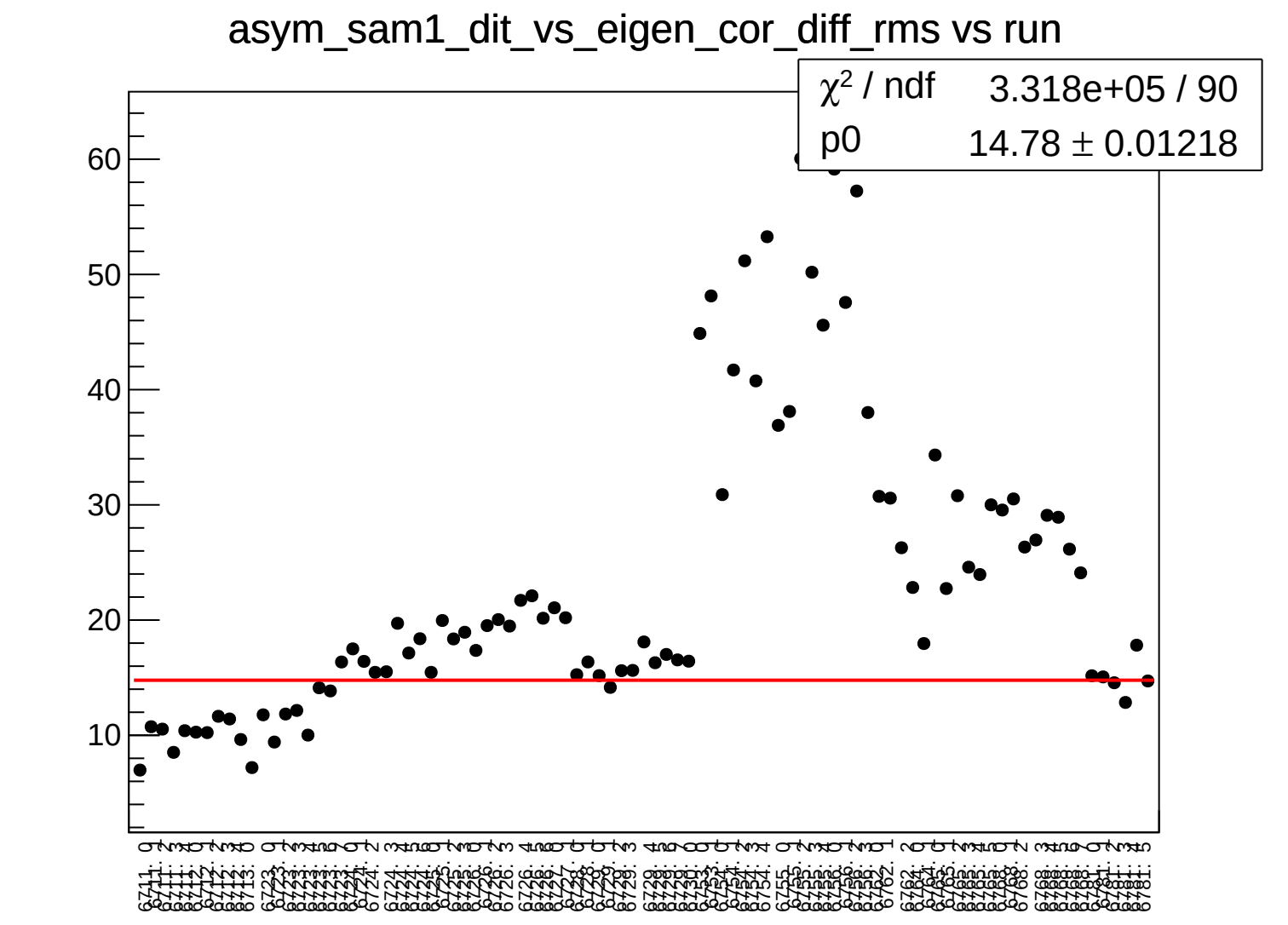

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 108.7 / 90
p0 −0.004022 ± 0.01722
pull
Entries 91
Mean 92.21
Std Dev 0

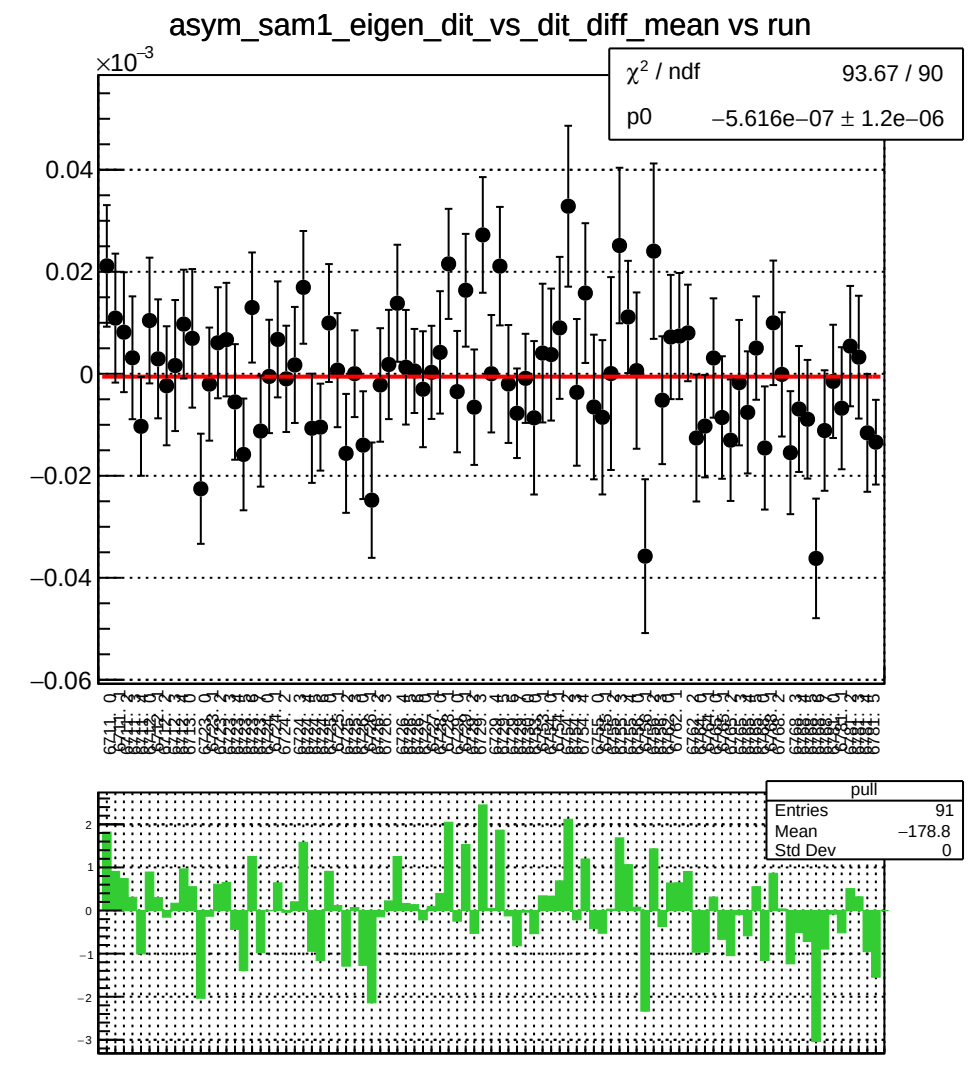

pull1D
Entries 91
Mean −0.0505
Std Dev 1.092

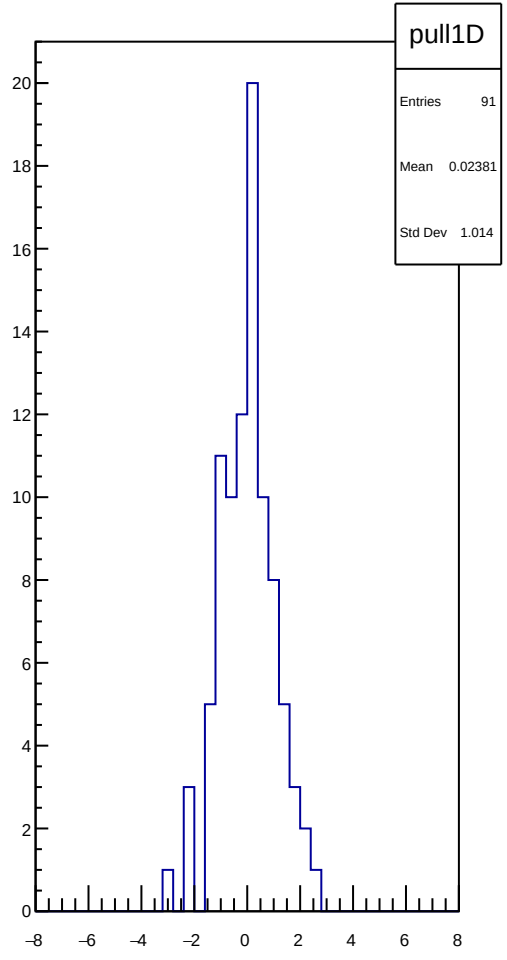

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.318e+05 / 90
p0 14.78 ± 0.01218
60
50
40
30
20
10

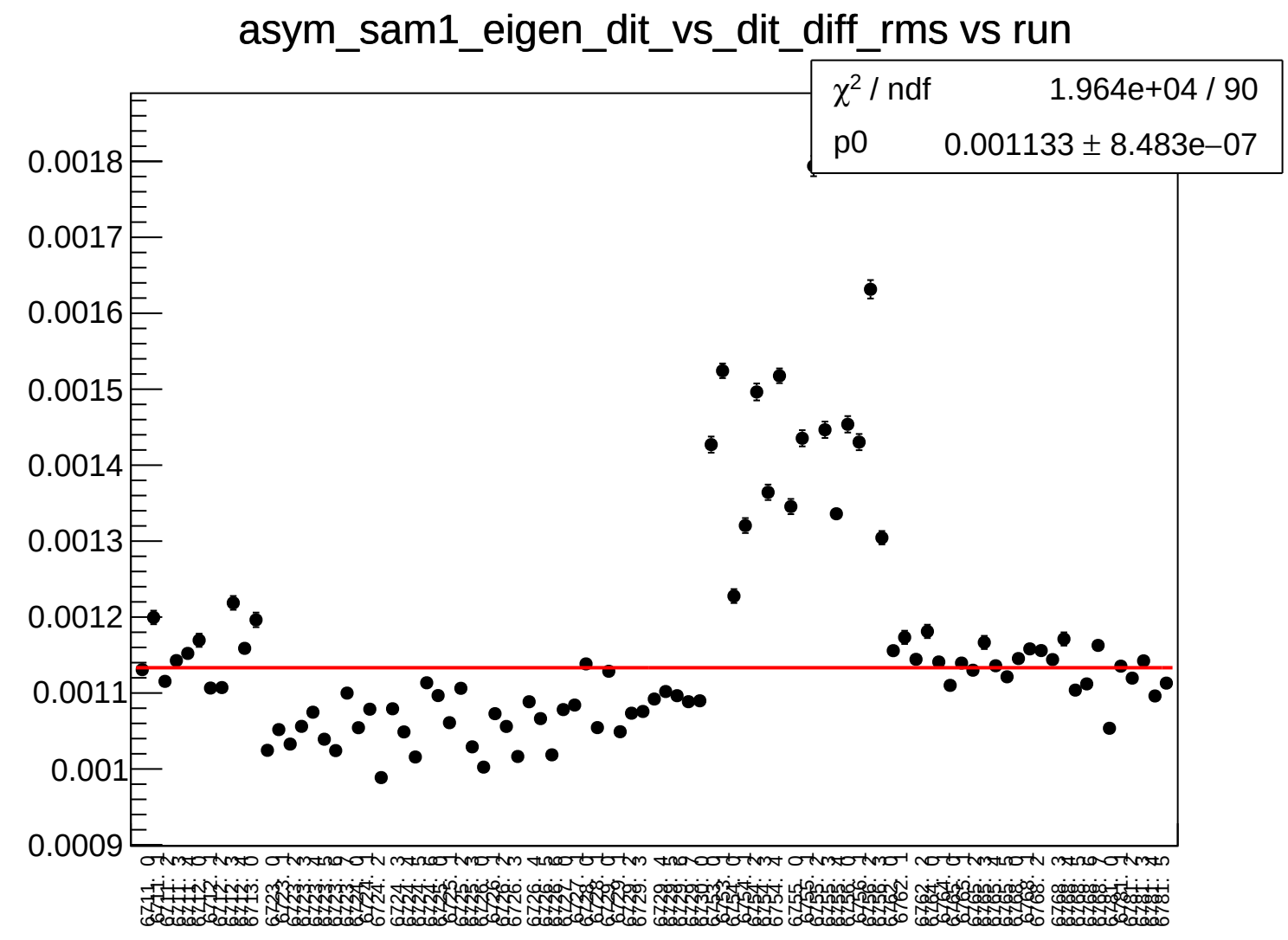

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.7 / 90
p0 −0.004022 ± 0.01722
pull
Entries 91
Mean 92.21
Std Dev 0

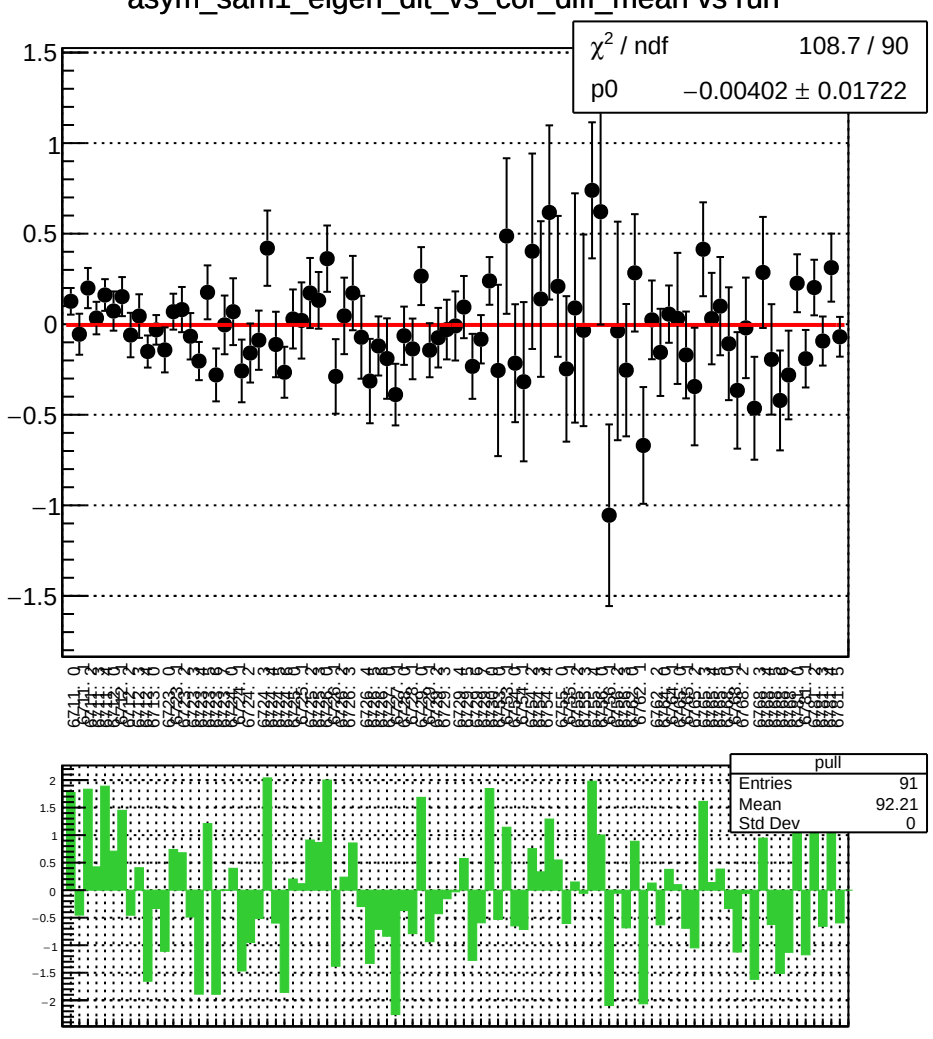

pull1D
Entries 91
Mean −0.0505
Std Dev 1.092

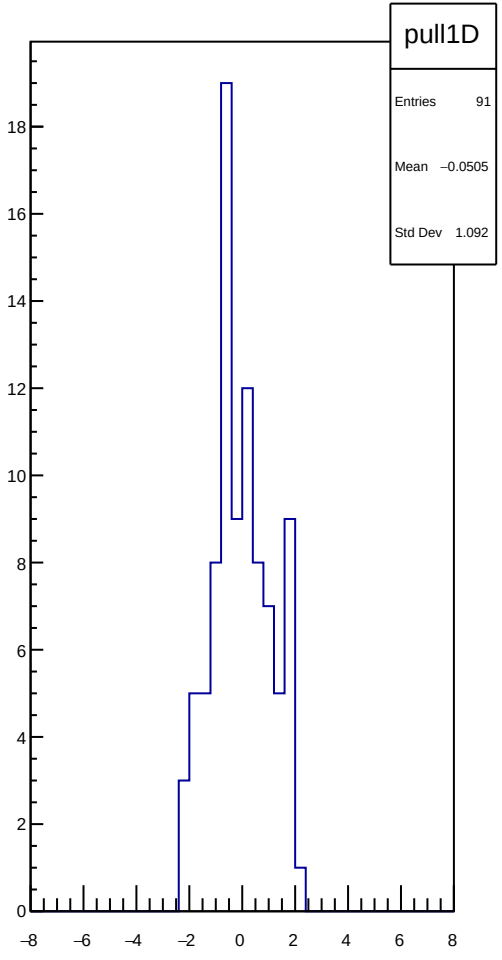

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.318e+05 / 90
p0 14.78 ± 0.01218
60
50
40
30
20
10

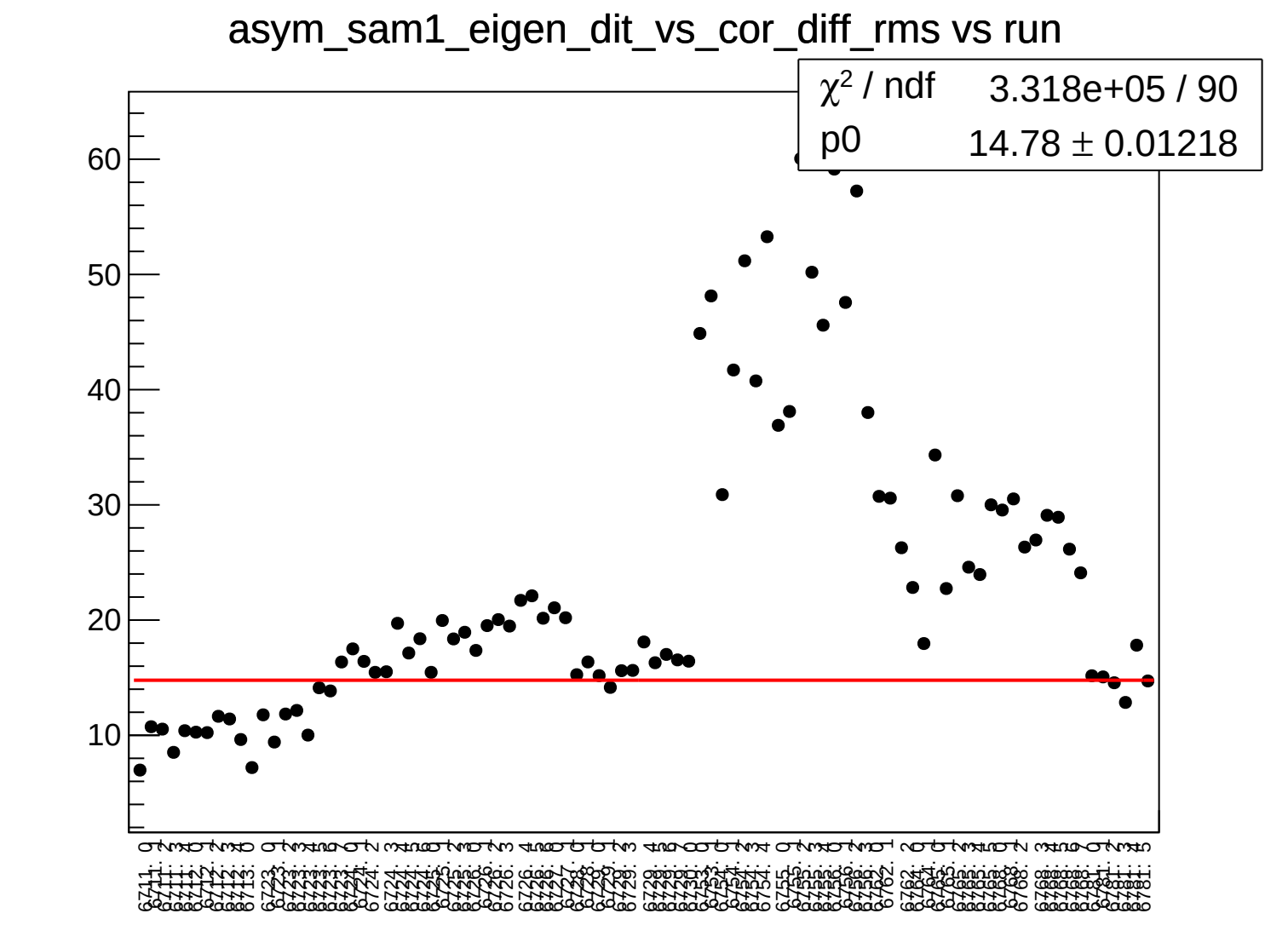

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.67 / 90
p0 −5.616e−07 ± 1.2e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean −178.8
Std Dev 0
2
1
0
−1
−2
−3

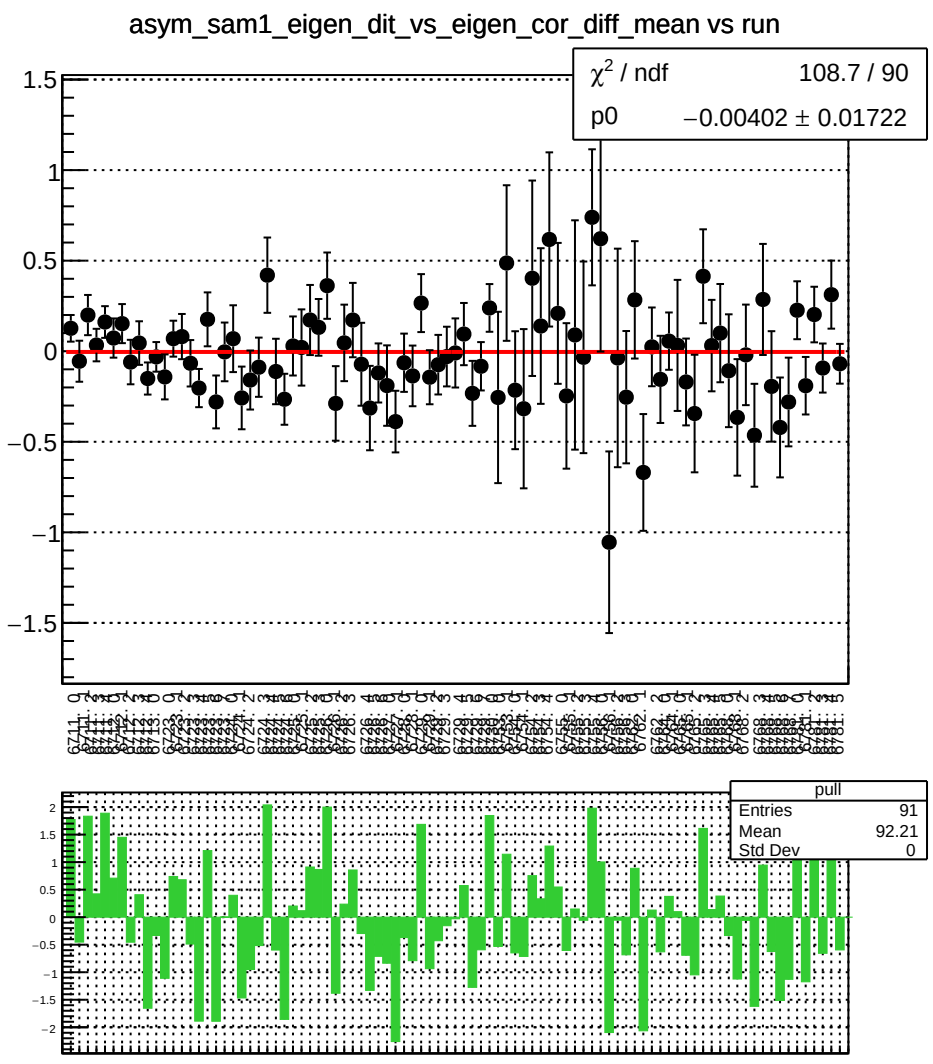

pull1D
Entries 91
Mean 0.02381
Std Dev 1.014
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

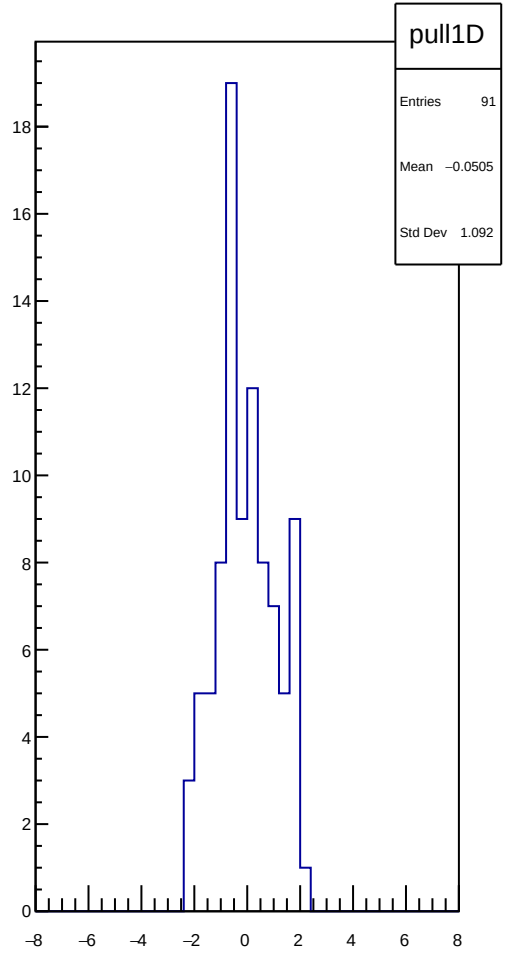

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.964e+04 / 90
p0 0.001133 ± 8.483e−07
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009

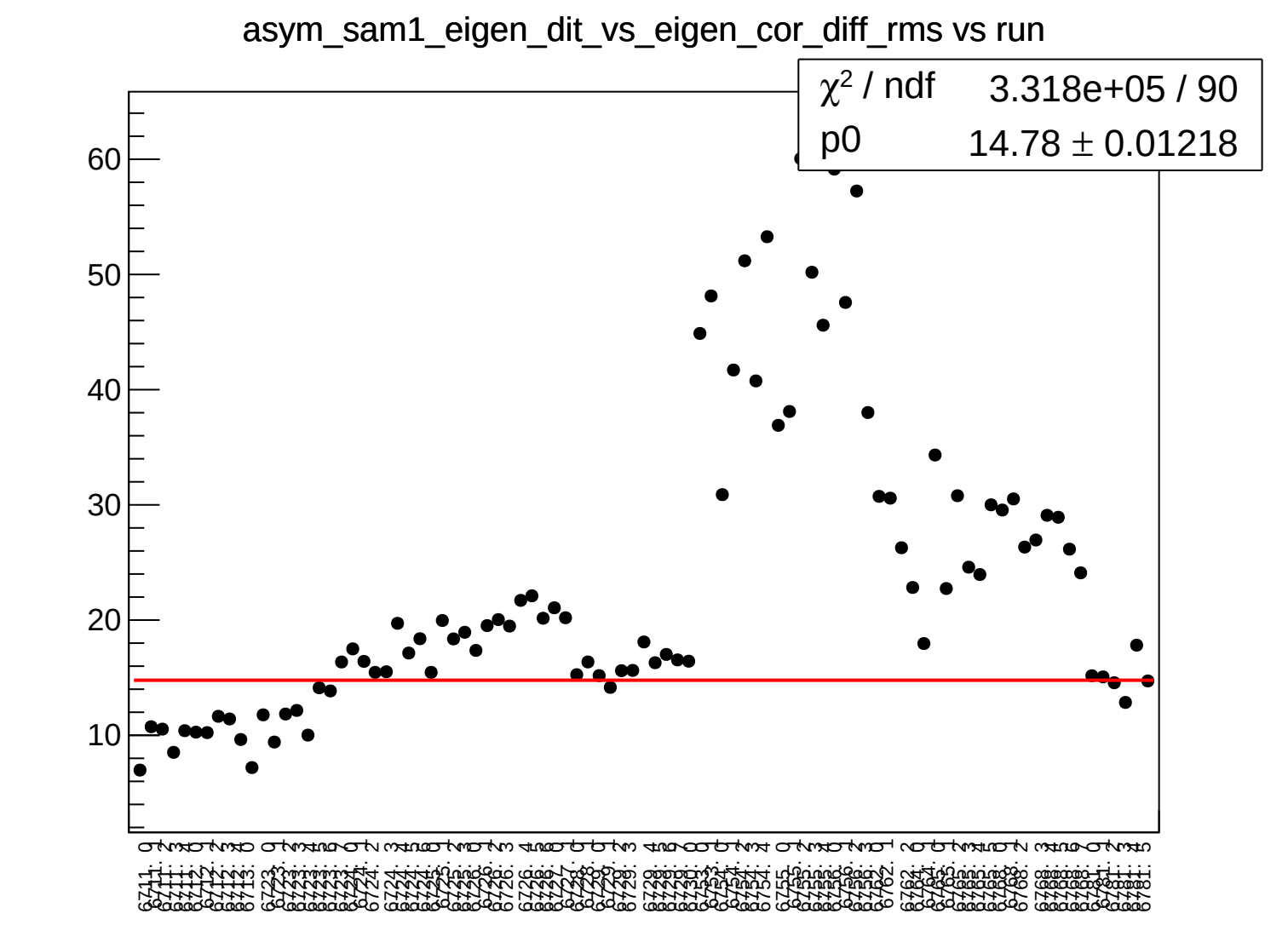

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.7 / 90
p0 −0.00402 ± 0.01722
pull
Entries 91
Mean 92.21
Std Dev 0

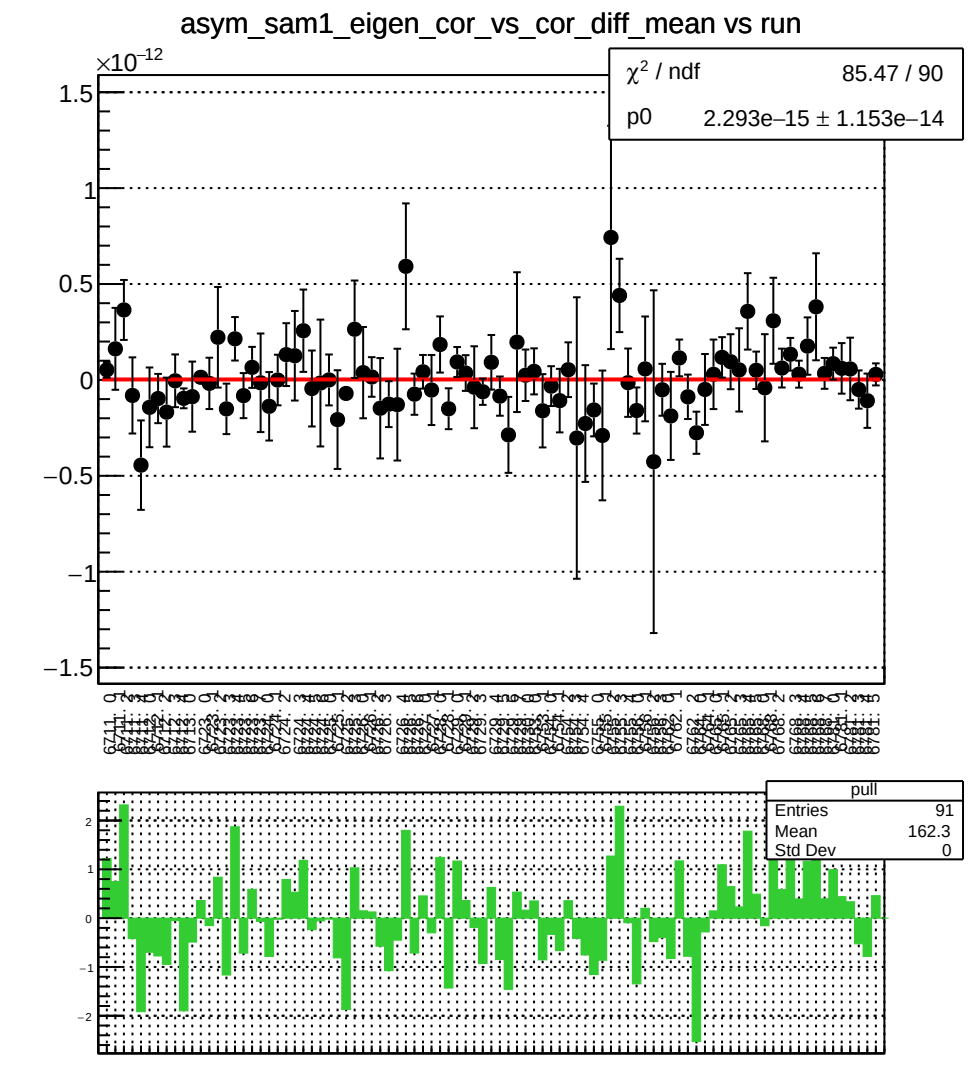

pull1D
Entries 91
Mean −0.0505
Std Dev 1.092

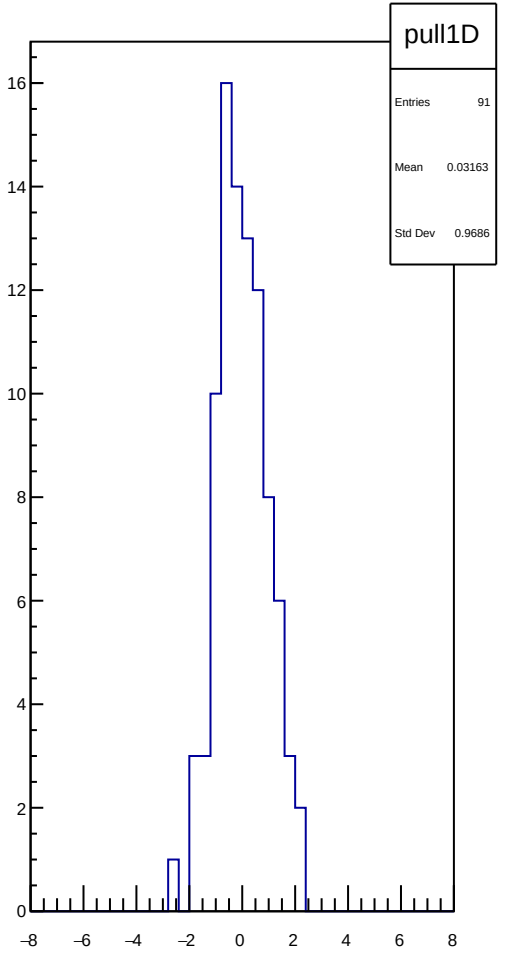

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.318e+05 / 90
p0 14.78 ± 0.01218
60
50
40
30
20
10

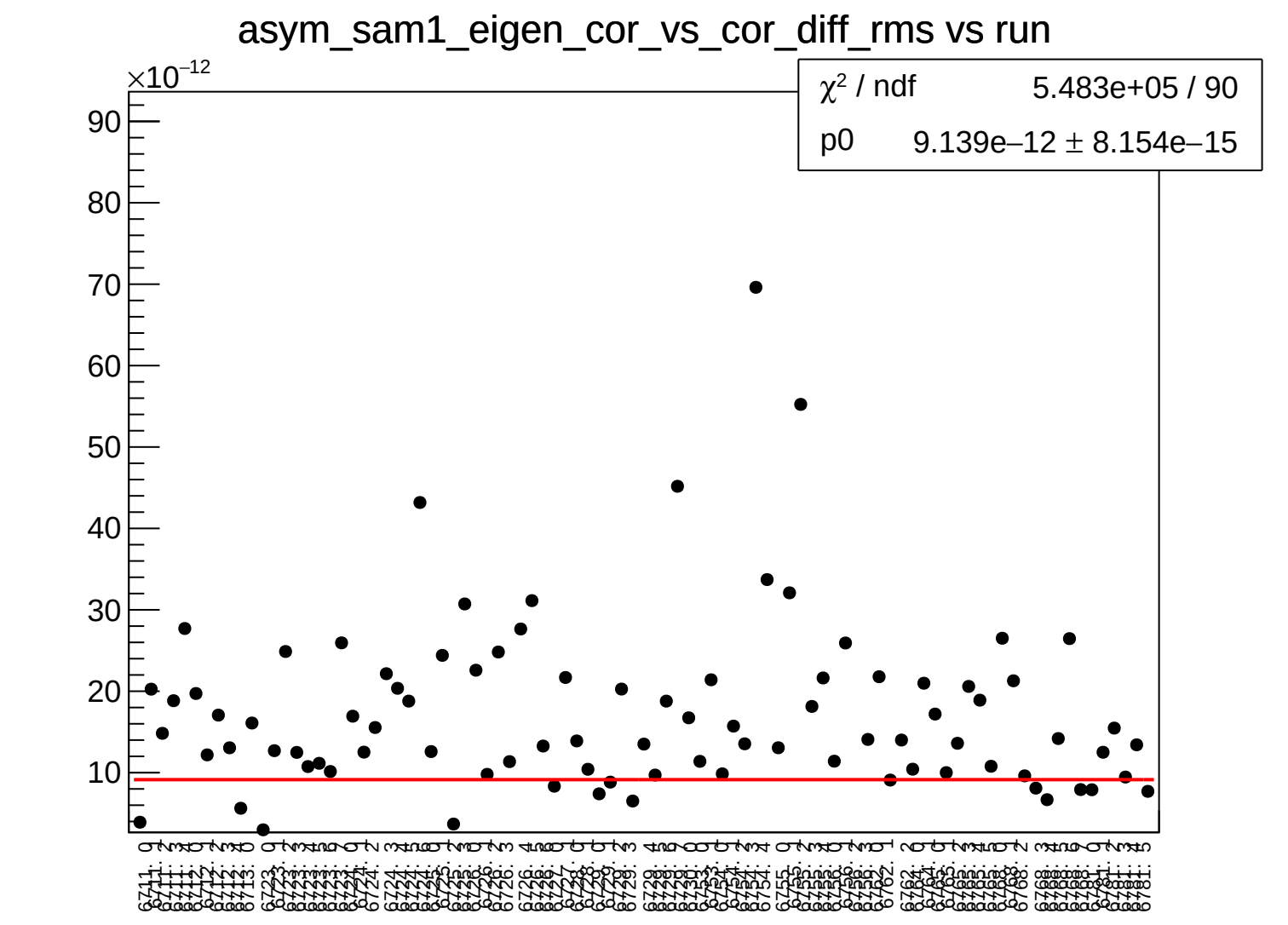

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.7 / 90
p0 −0.00402 ± 0.01722
pull
Entries 91
Mean 92.21
Std Dev 0

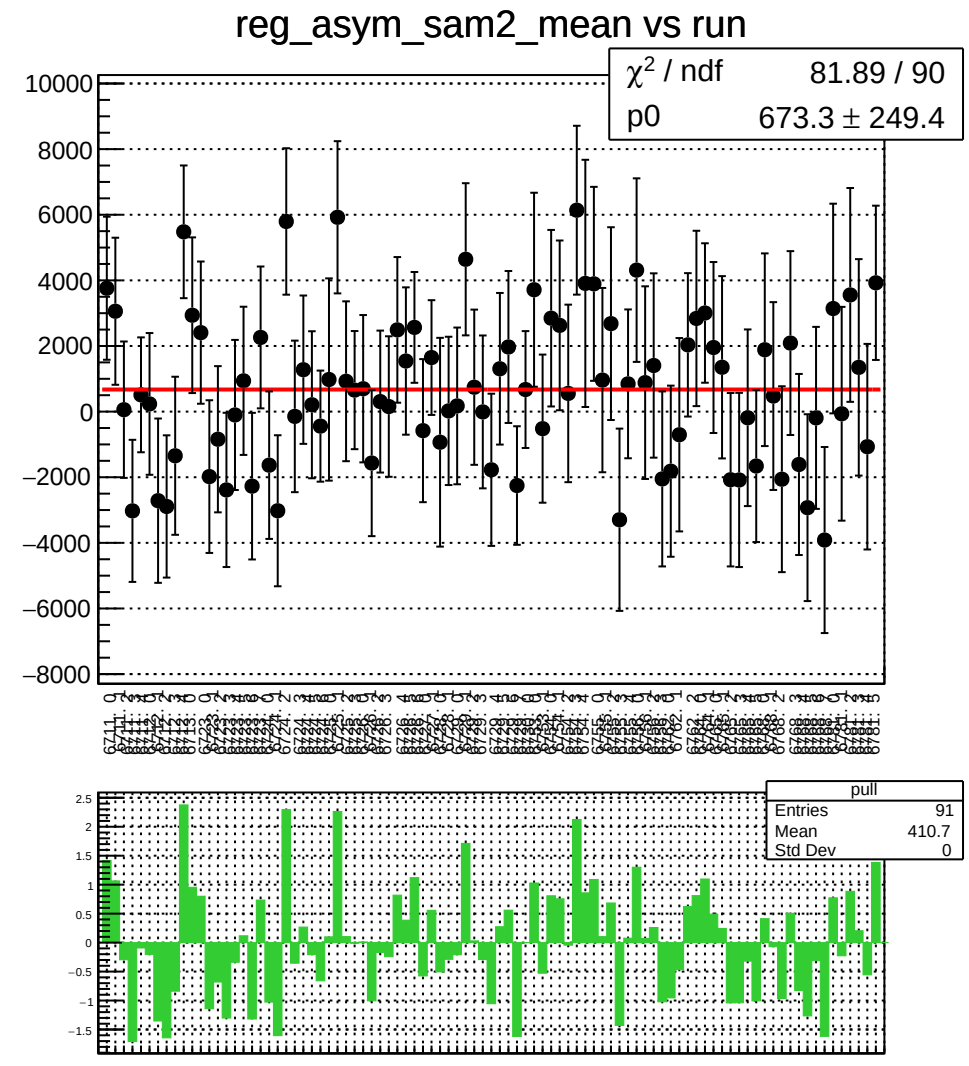

pull1D
Entries 91
Mean −0.0505
Std Dev 1.092

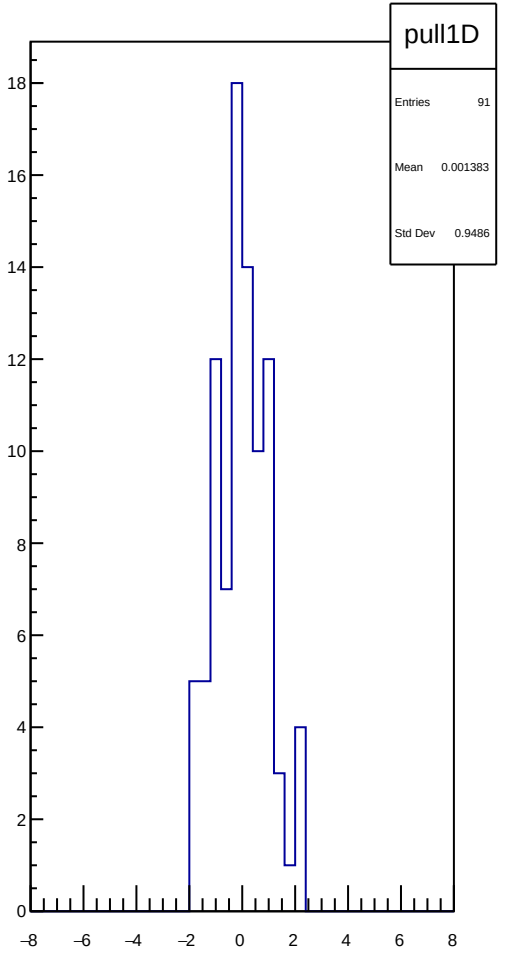

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.318e+05 / 90
p0 14.78 ± 0.01218
60
50
40
30
20
10

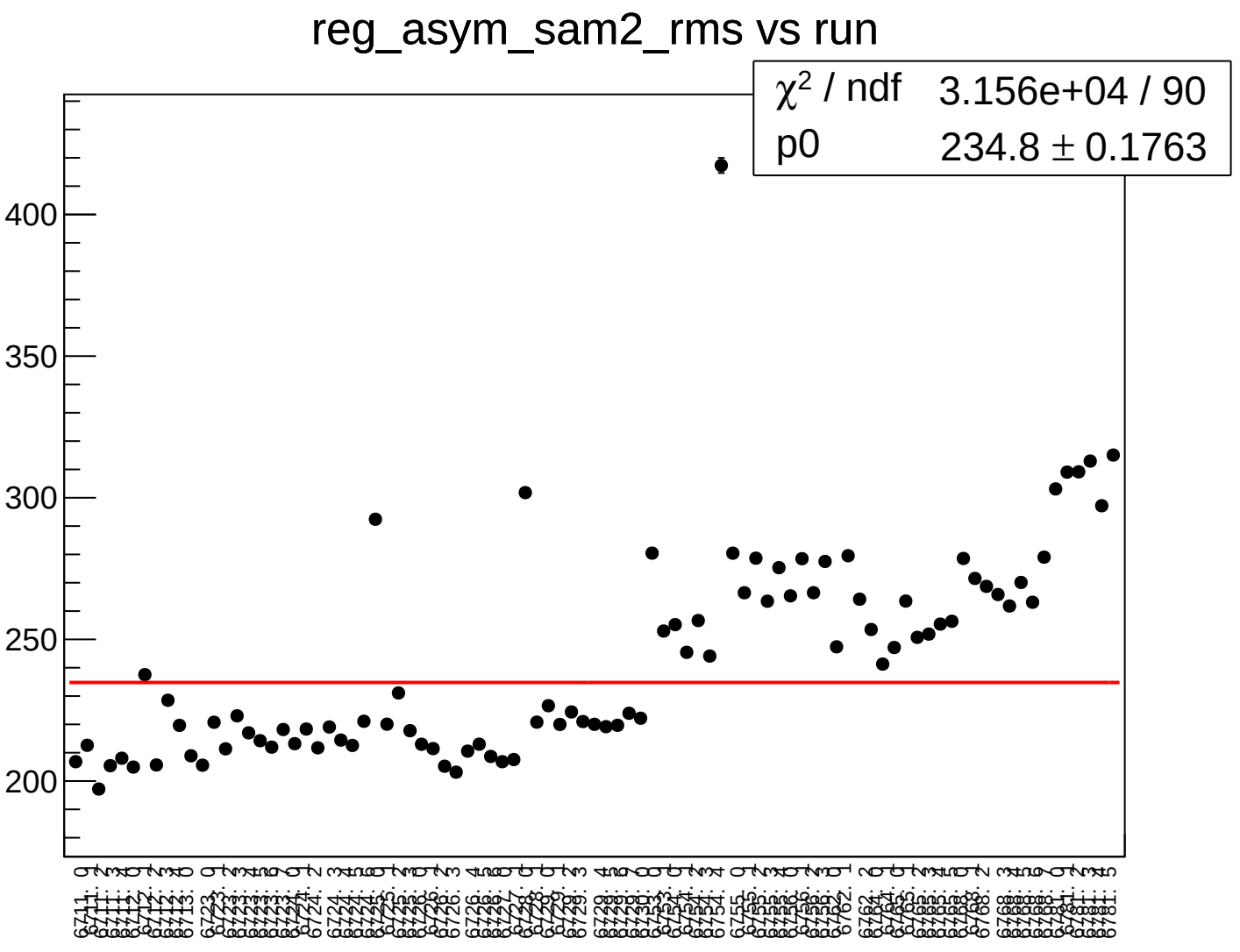

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.47 / 90
p0 2.293e−15 ± 1.153e−14
pull
Entries 91
Mean 162.3
Std Dev 0

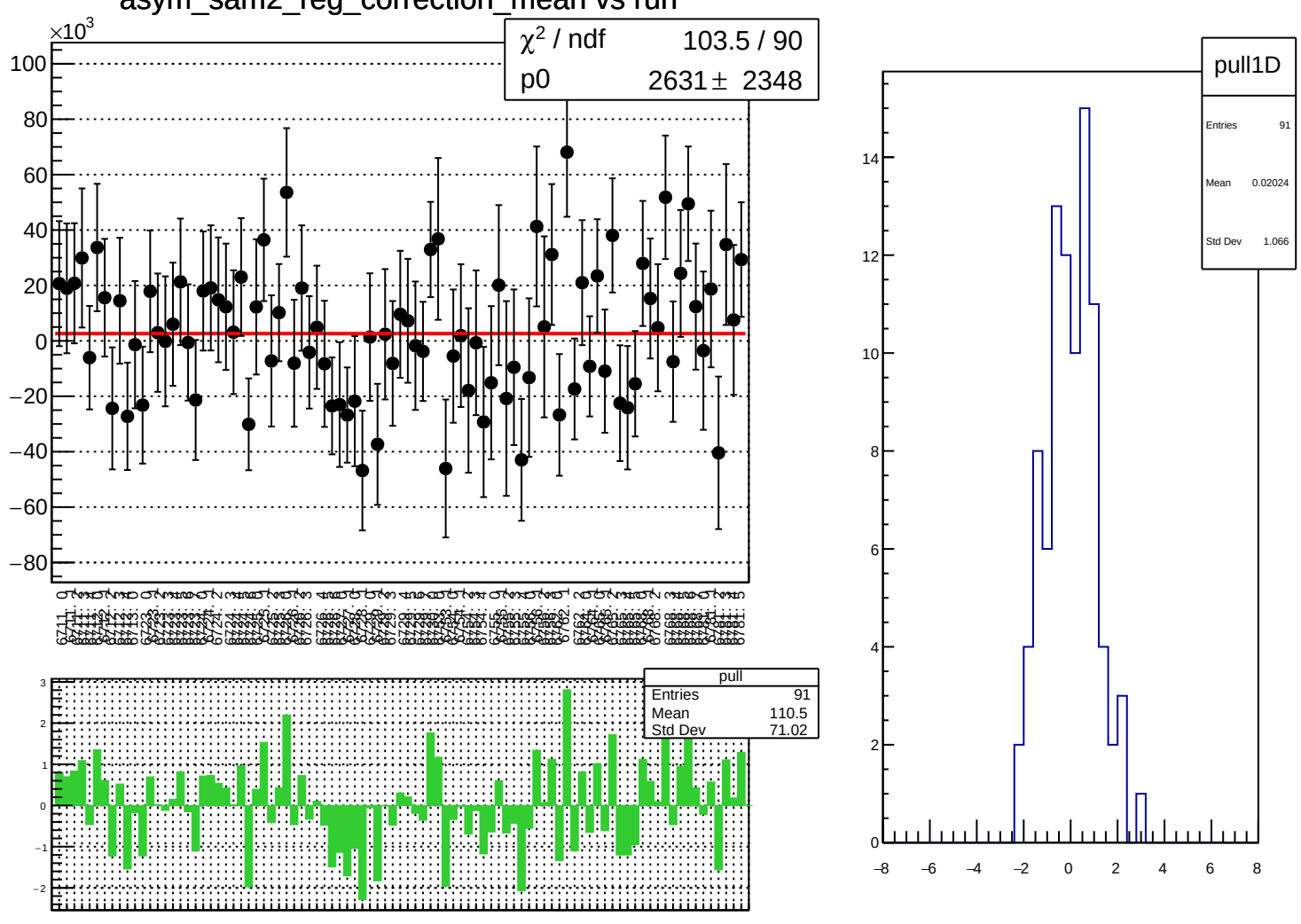

pull1D
Entries 91
Mean 0.03163
Std Dev 0.9686

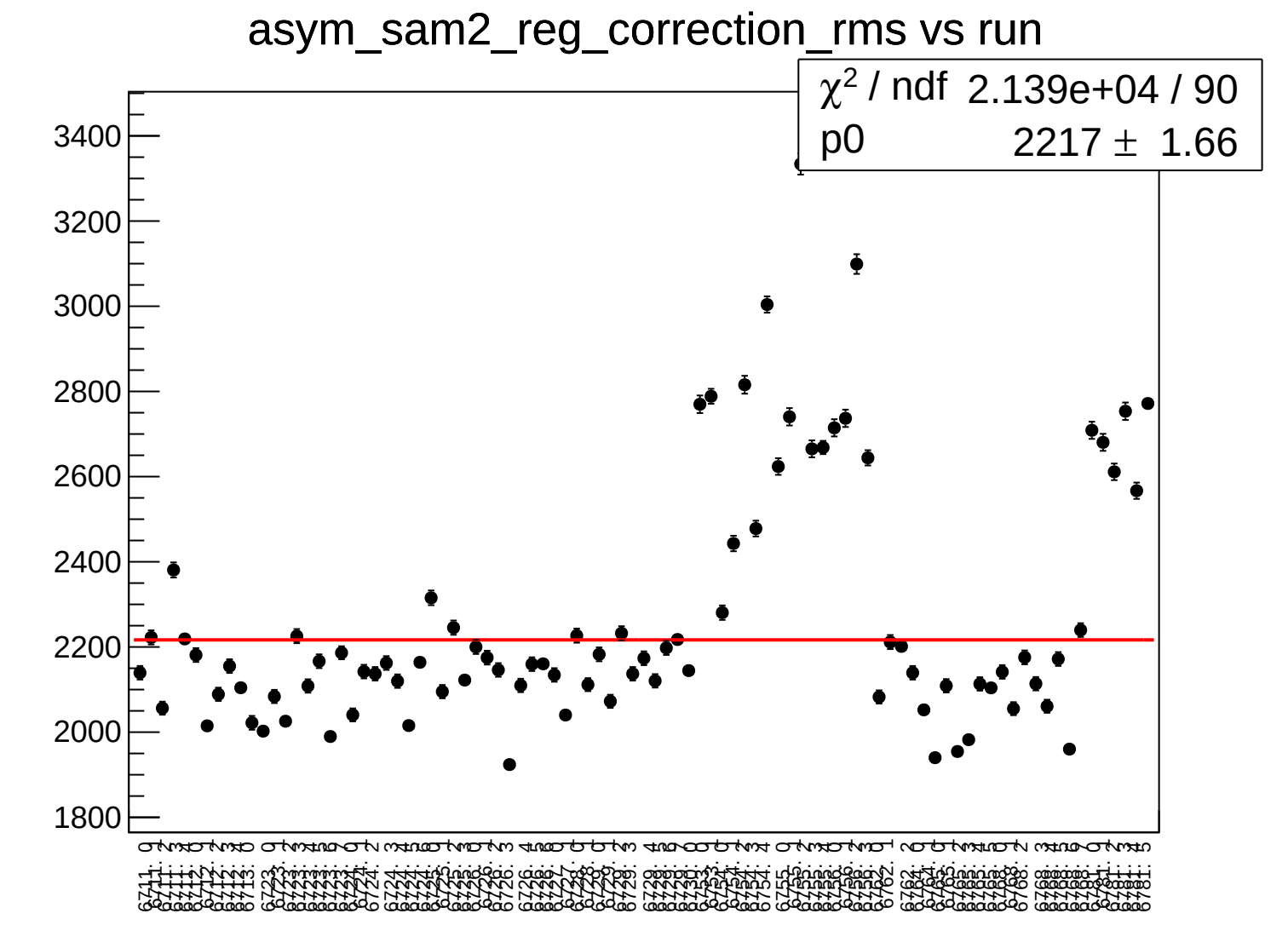

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.483e+05 / 90
p0 9.139e−12 ± 8.154e−15
90
80
70
60
50
40
30
20
10

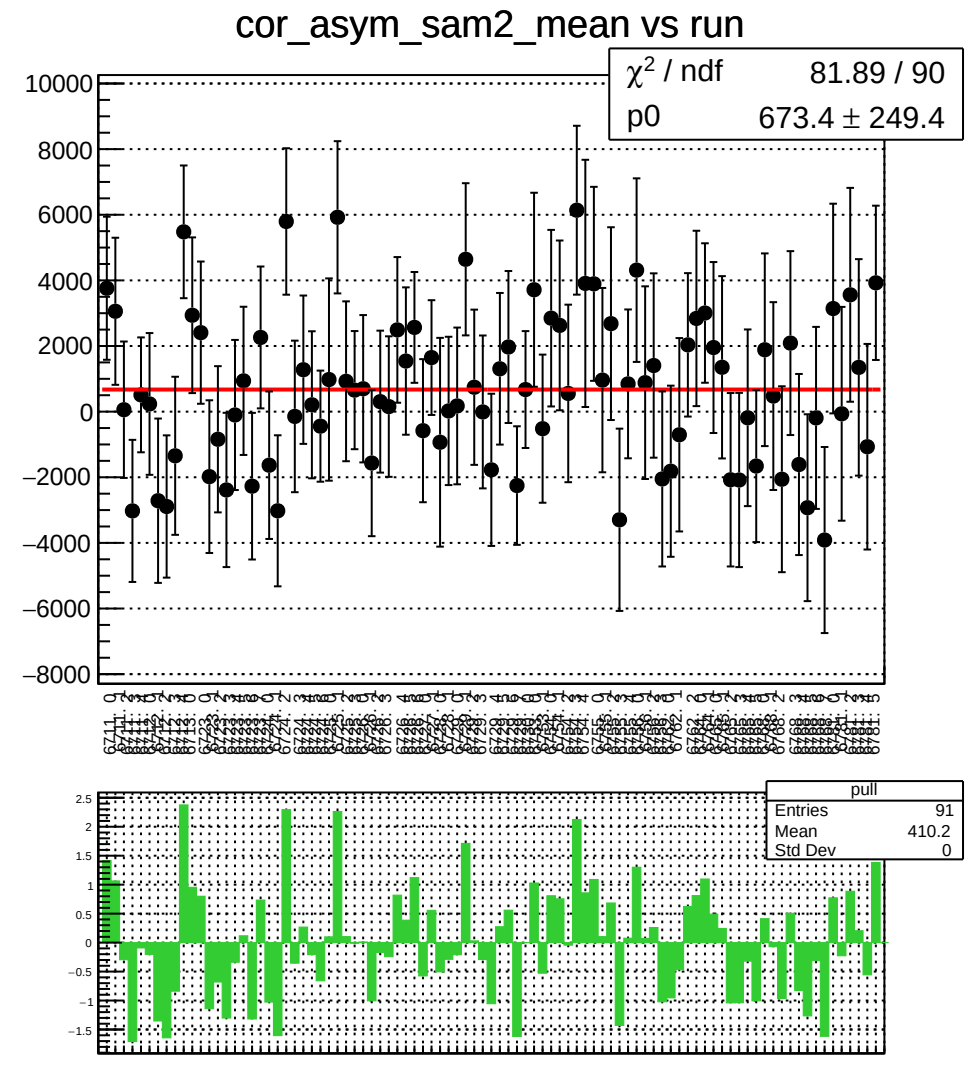

reg_asym_sam2_mean vs run
χ² / ndf 81.89 / 90
p0 673.3 ± 249.4
pull
Entries 91
Mean 410.7
Std Dev 0

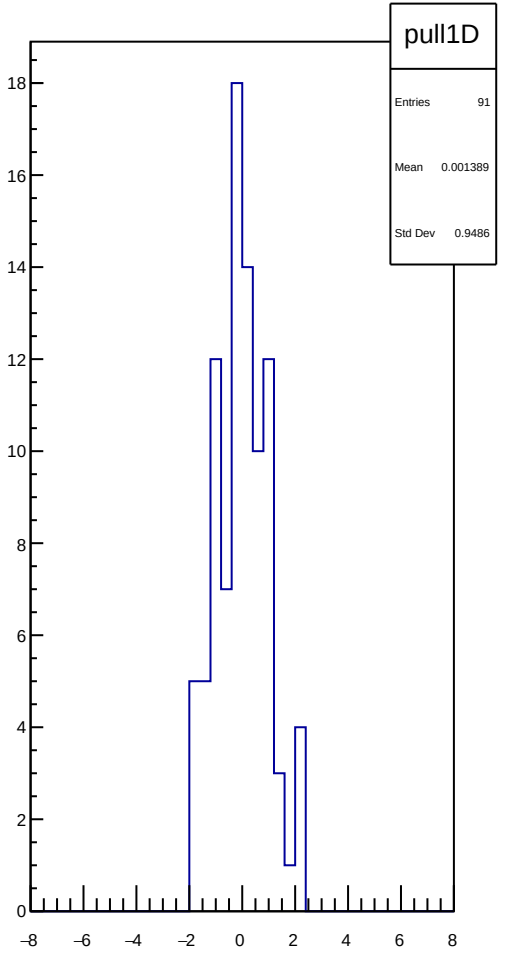

pull1D
Entries 91
Mean 0.001383
Std Dev 0.9486

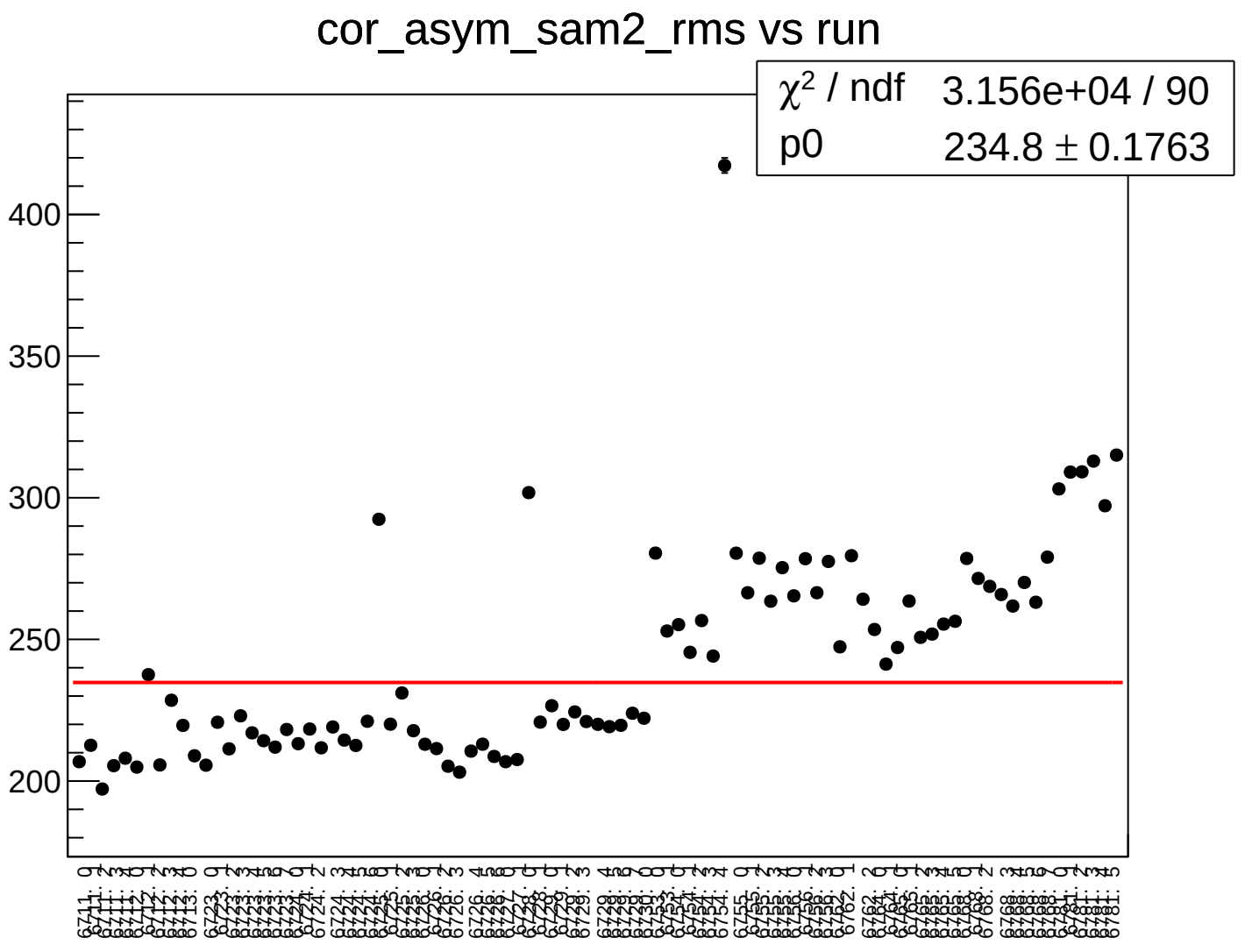

reg_asym_sam2_rms vs run
χ² / ndf 3.156e+04 / 90
p0 234.8 ± 0.1763
400
350
300
250
200

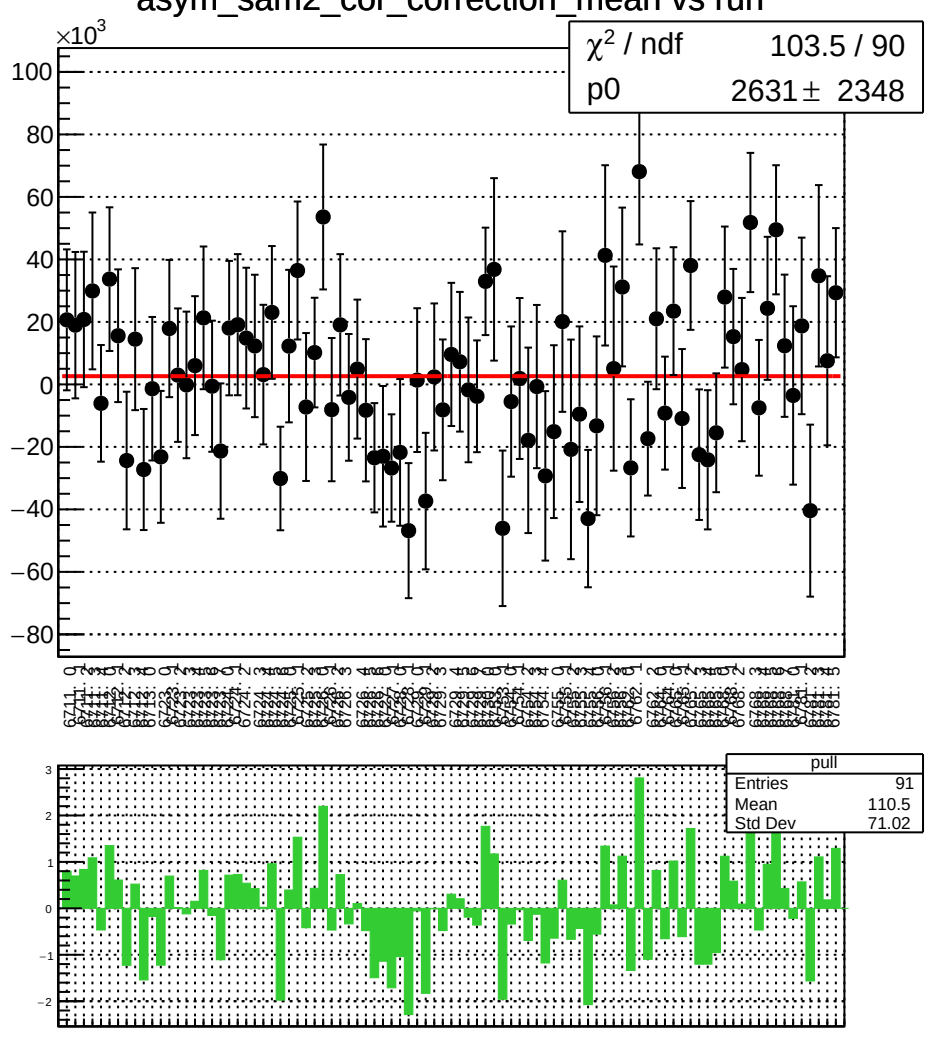

asym_sam2_reg_correction_mean vs run
×10^3
χ^2 / ndf 103.5 / 90
p0 2631 ± 2348
pull
Entries 91
Mean 110.5
Std Dev 71.02
pull1D
Entries 91
Mean 0.02024
Std Dev 1.066

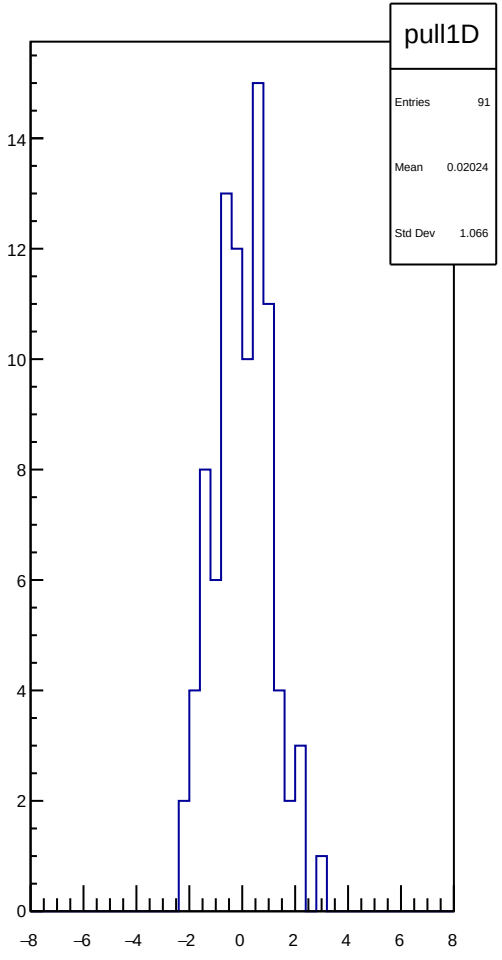

asym_sam2_reg_correction_rms vs run
χ² / ndf 2.139e+04 / 90
p0 2217 ± 1.66
3400
3200
3000
2800
2600
2400
2200
2000
1800

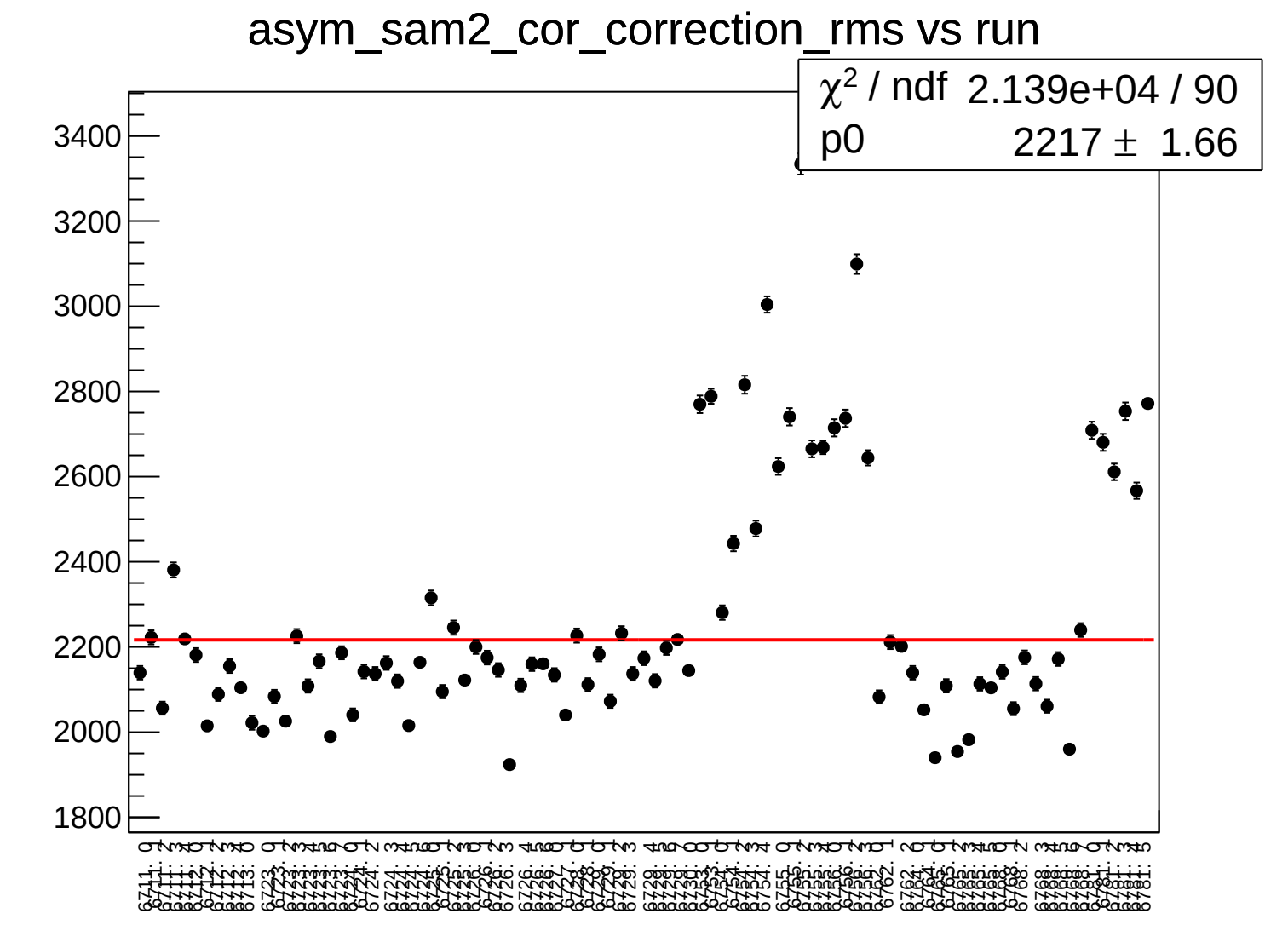

cor_asym_sam2_mean vs run
χ² / ndf 81.89 / 90
p0 673.4 ± 249.4
pull
Entries 91
Mean 410.2
Std Dev 0

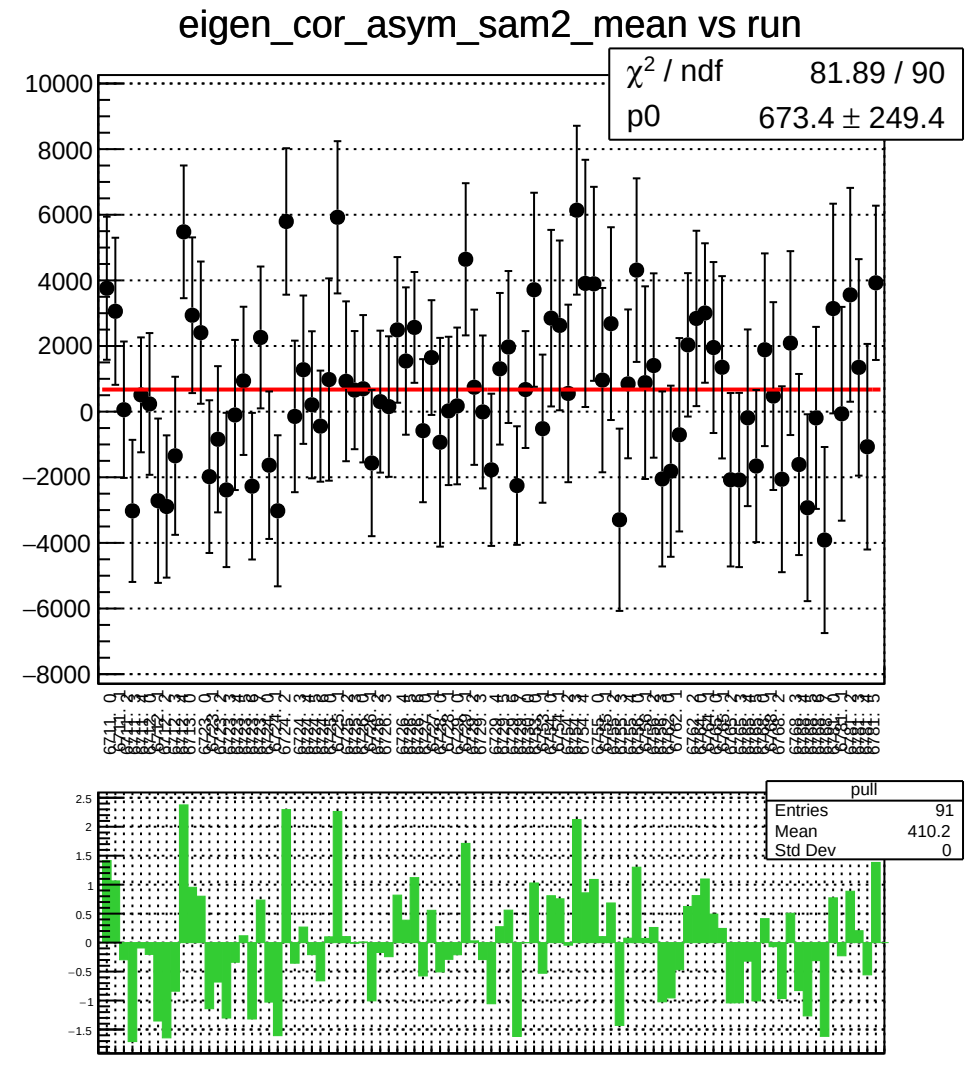

pull1D
Entries 91
Mean 0.001389
Std Dev 0.9486

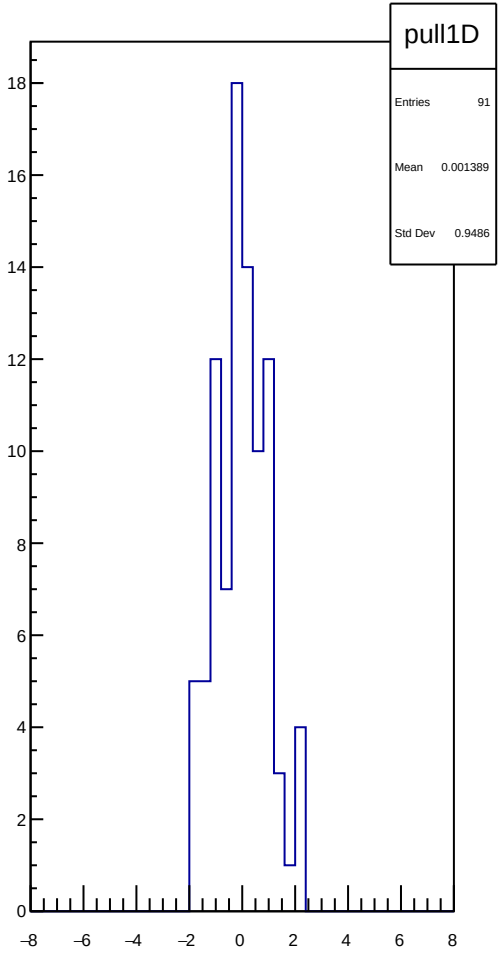

cor_asym_sam2_rms vs run
χ² / ndf 3.156e+04 / 90
p0 234.8 ± 0.1763
400
350
300
250
200

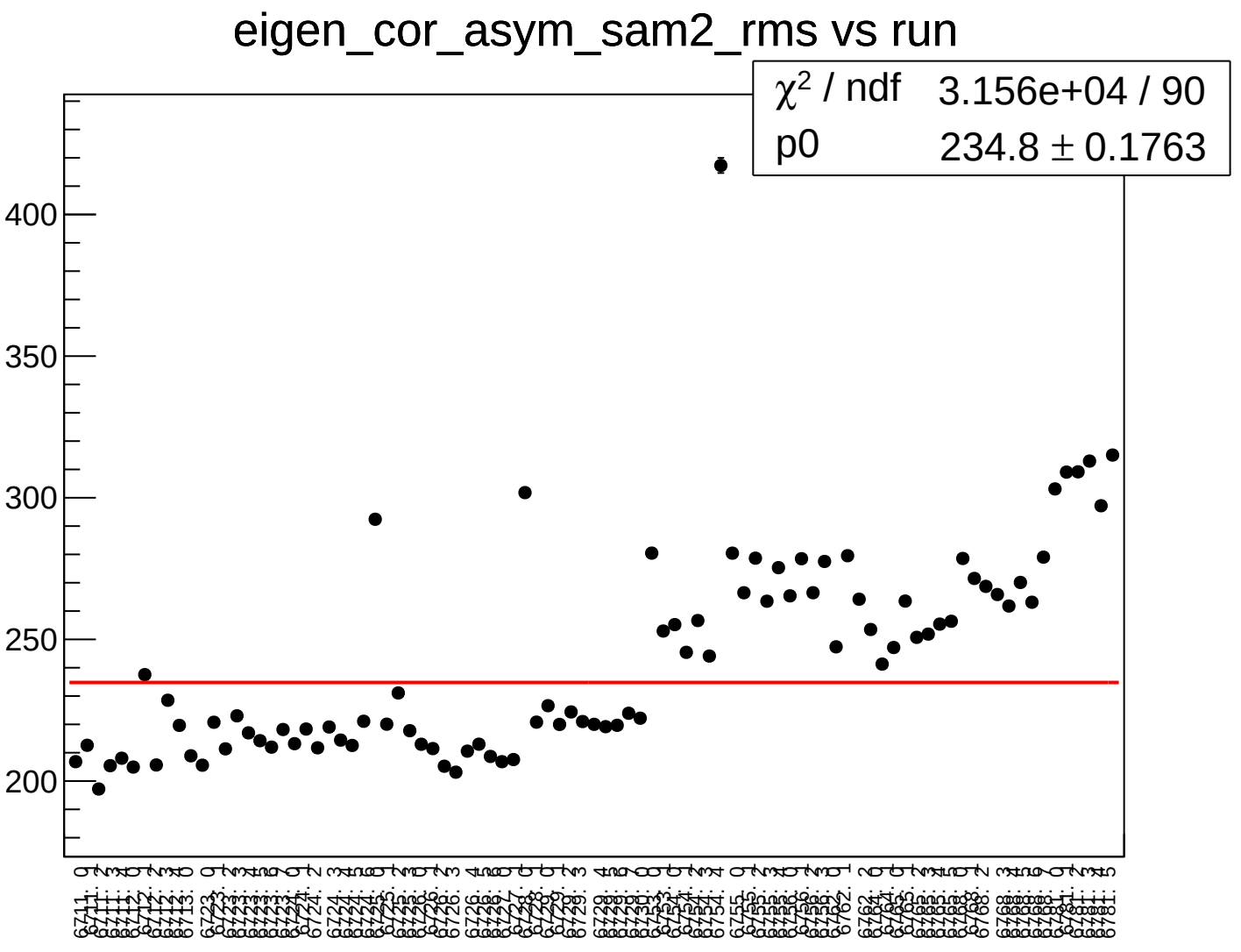

asym_sam2_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.5 / 90
p0 2631 ± 2348
pull
Entries 91
Mean 110.5
Std Dev 71.02

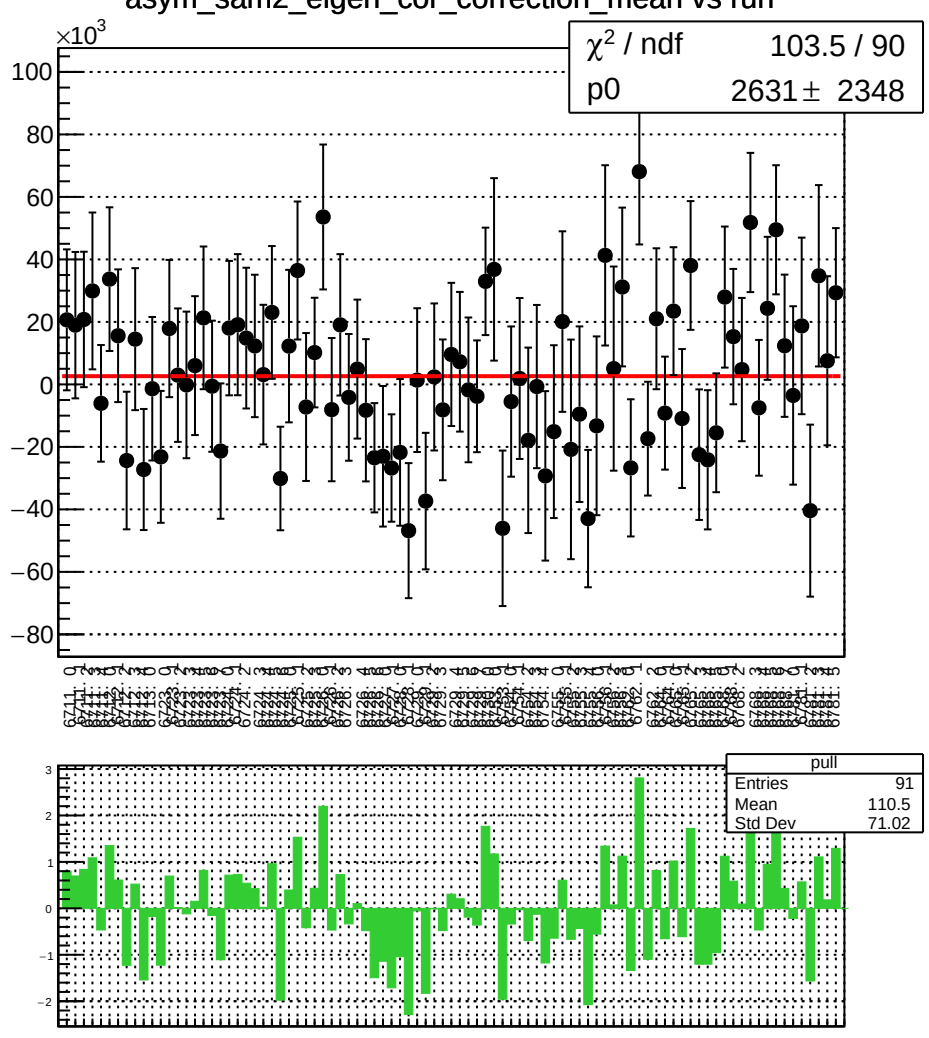

pull1D
Entries 91
Mean 0.02024
Std Dev 1.066

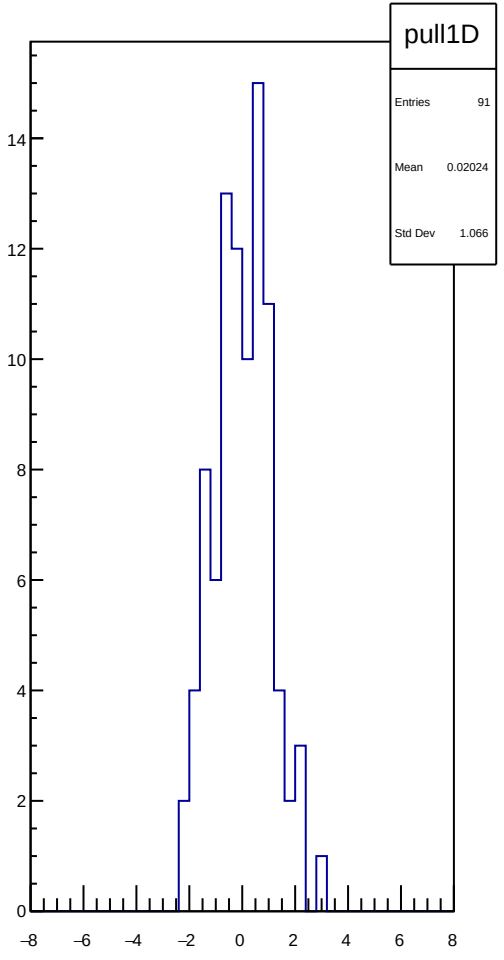

asym_sam2_cor_correction_rms vs run
χ² / ndf 2.139e+04 / 90
p0 2217 ± 1.66
3400
3200
3000
2800
2600
2400
2200
2000
1800

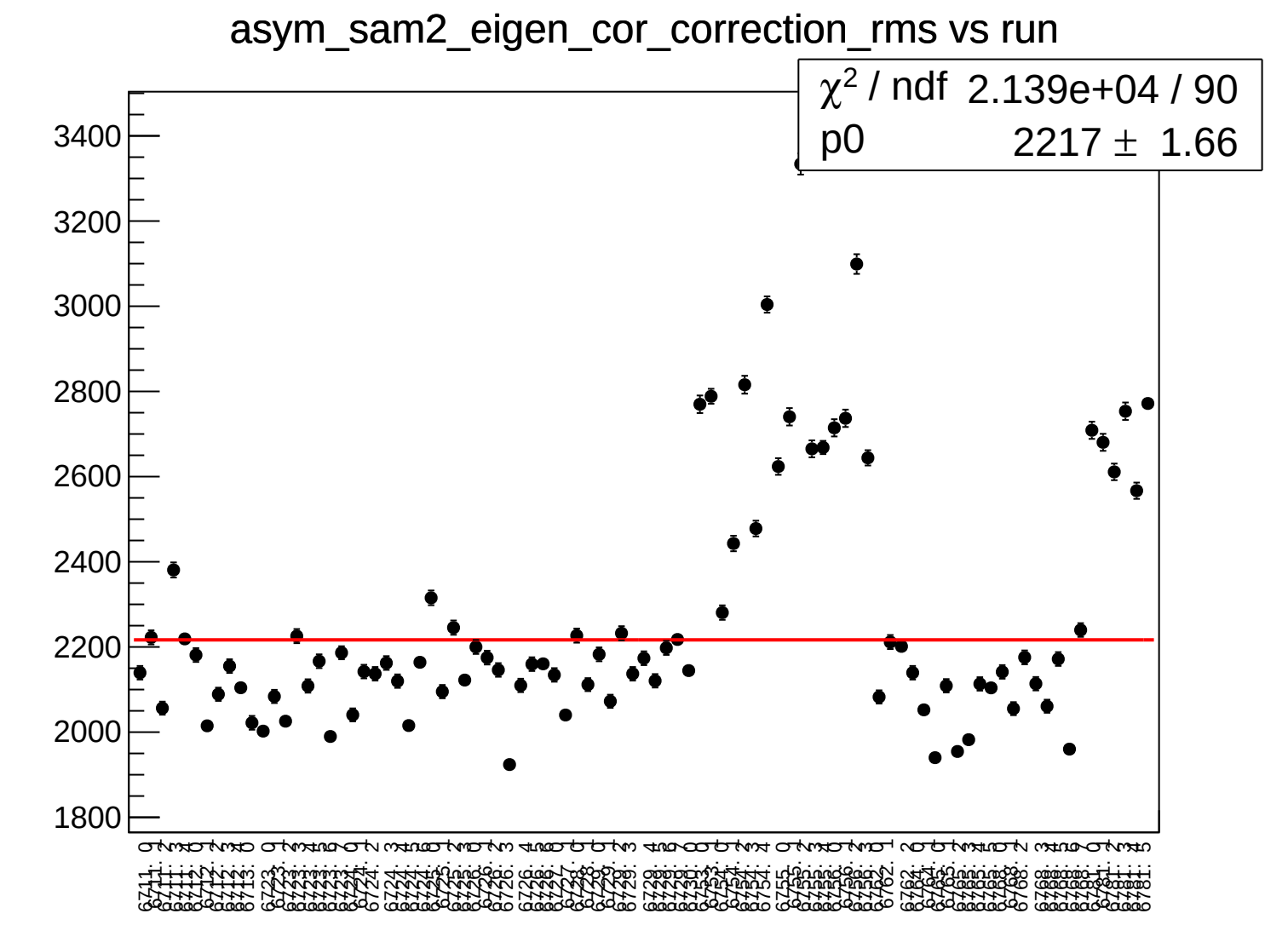

eigen_cor_asym_sam2_mean vs run
χ² / ndf 81.89 / 90
p0 673.4 ± 249.4
pull
Entries 91
Mean 410.2
Std Dev 0

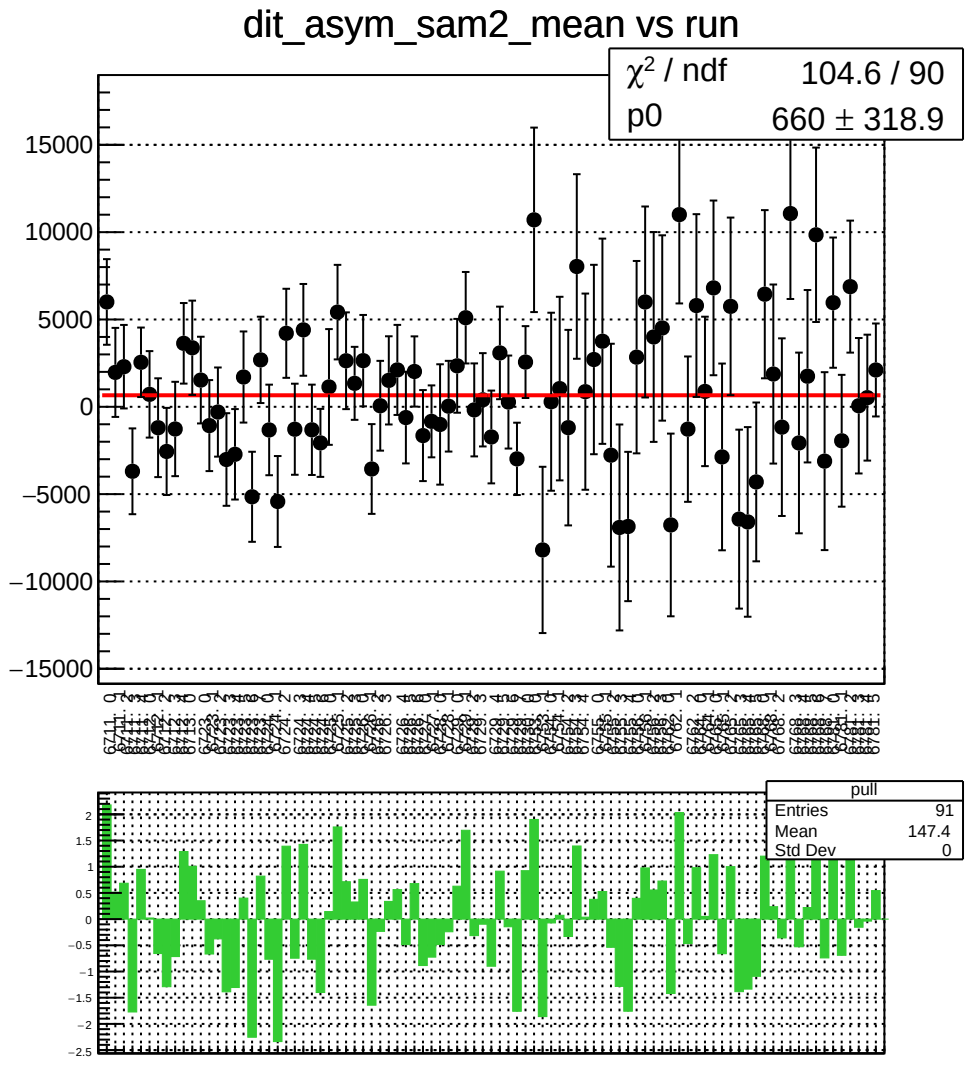

pull1D
Entries 91
Mean 0.001389
Std Dev 0.9486

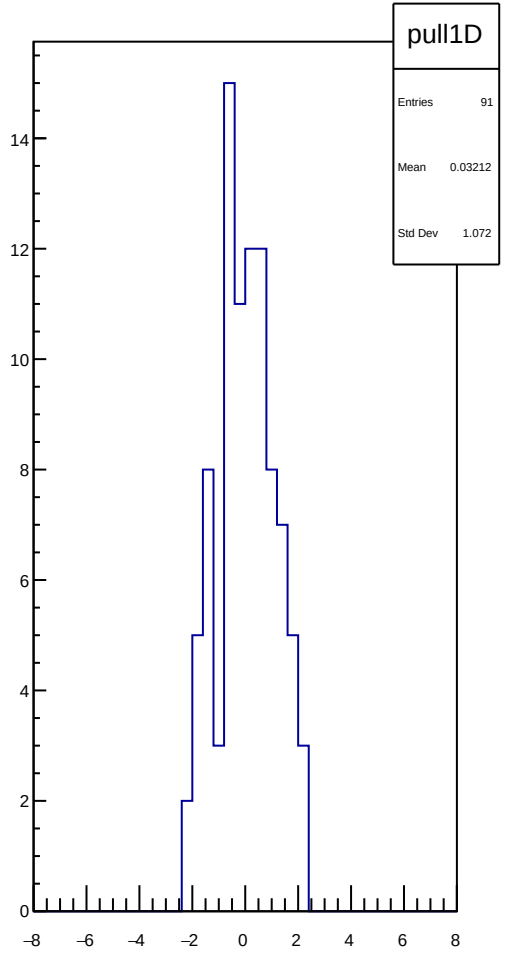

eigen_cor_asym_sam2_rms vs run
χ² / ndf 3.156e+04 / 90
p0 234.8 ± 0.1763
400
350
300
250
200

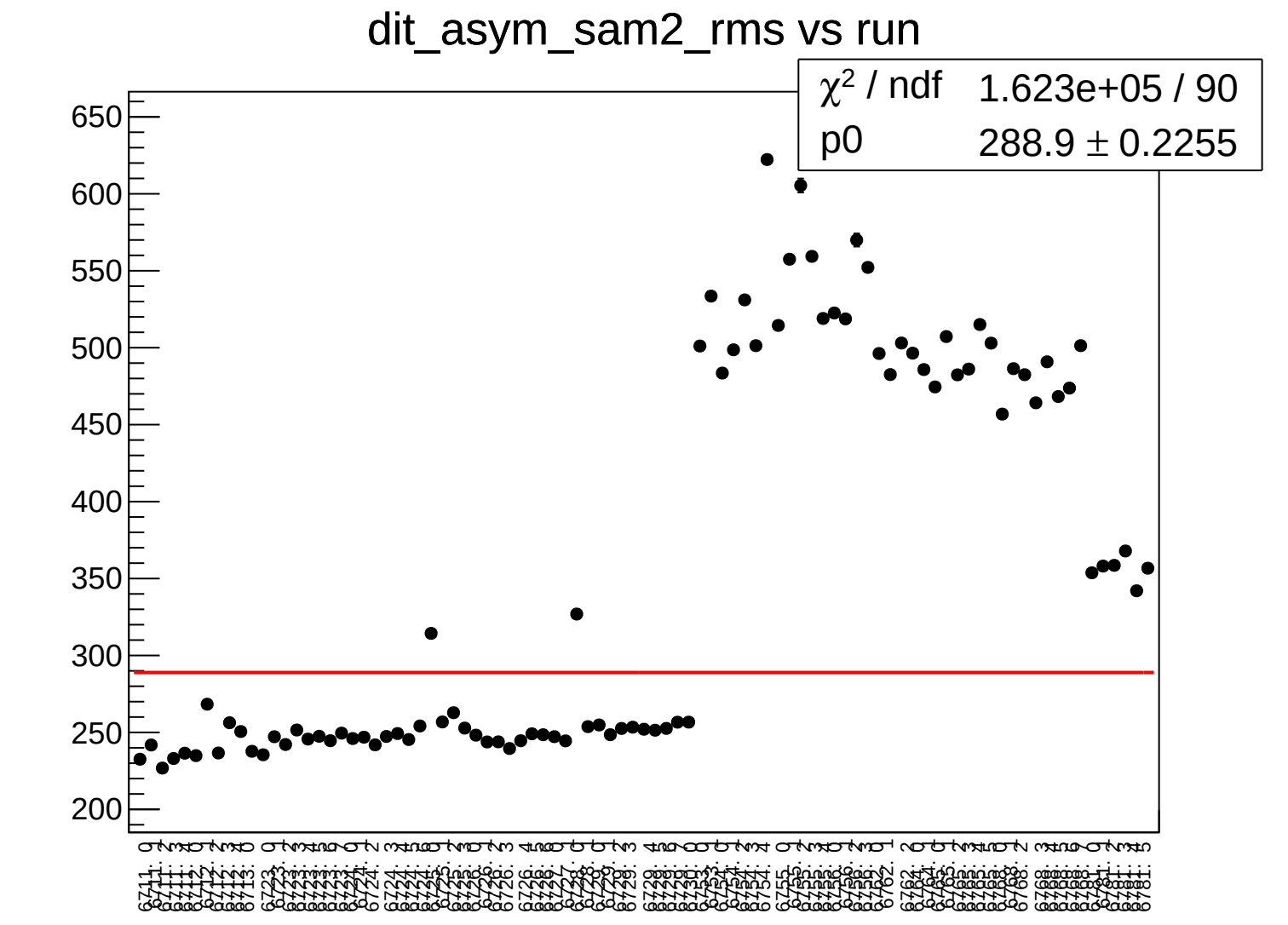

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.5 / 90
p0 2631 ± 2348
pull
Entries 91
Mean 110.5
Std Dev 71.02

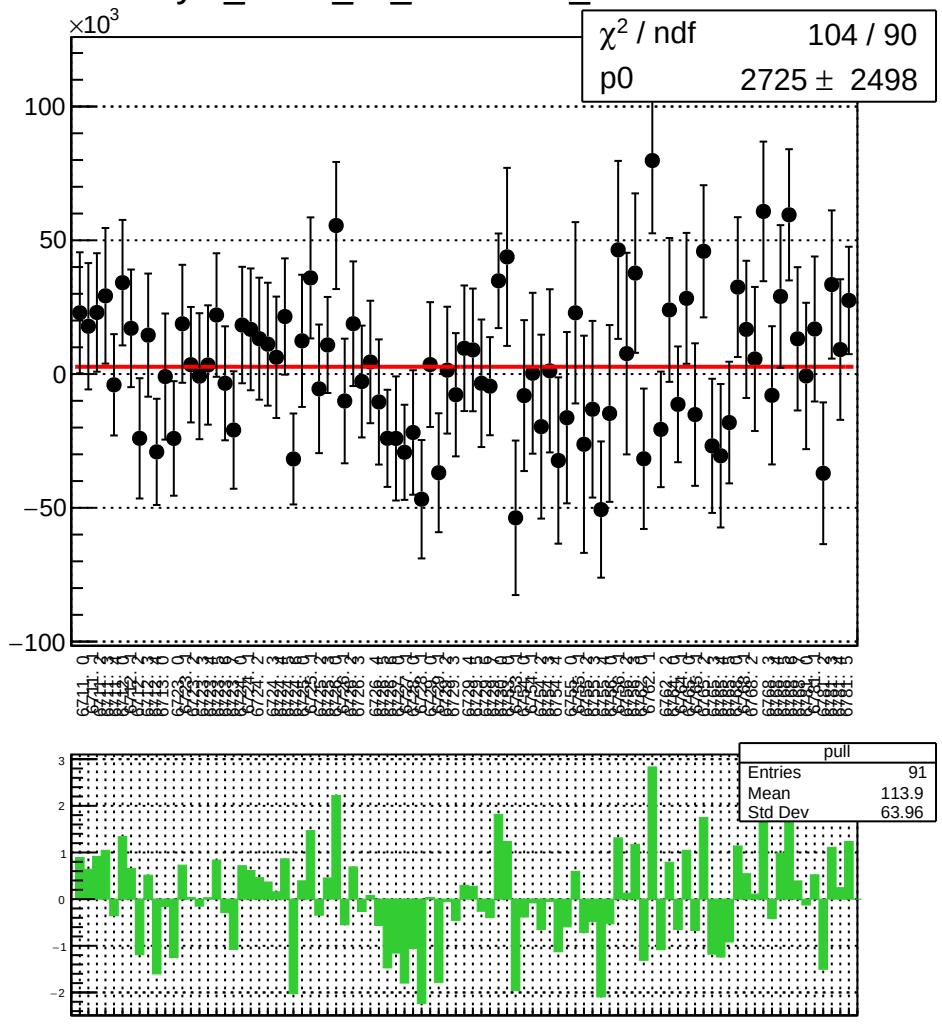

pull1D
Entries 91
Mean 0.02024
Std Dev 1.066

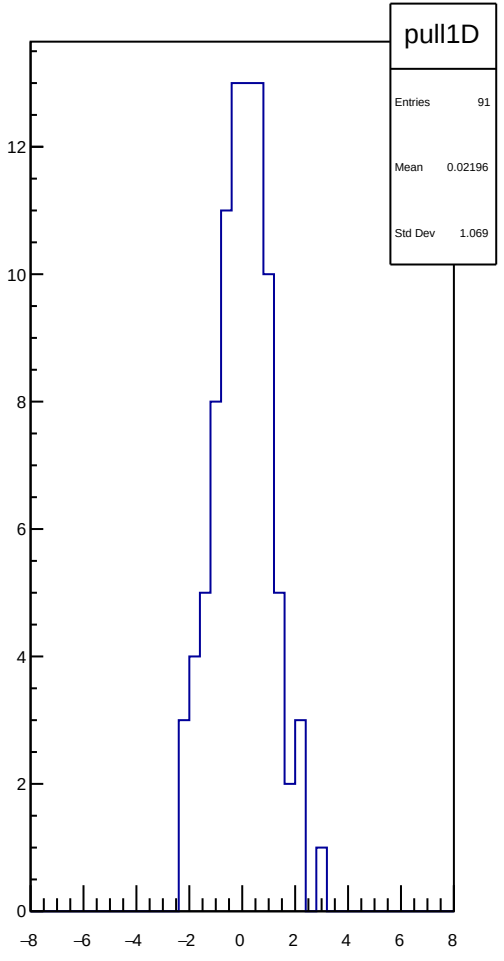

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 2.139e+04 / 90
p0 2217 ± 1.66
3400
3200
3000
2800
2600
2400
2200
2000
1800

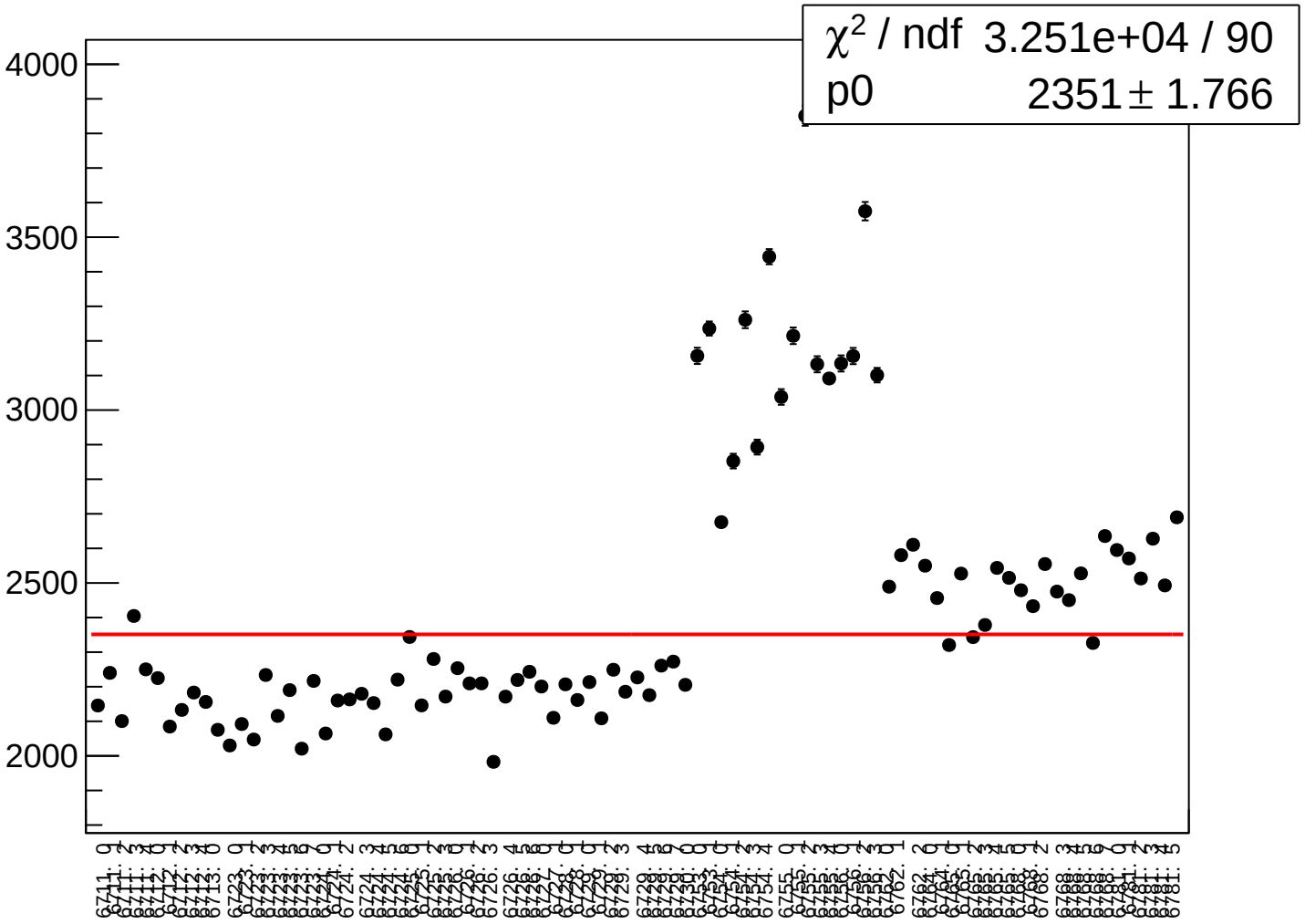

dit_asym_sam2_mean vs run
χ² / ndf 104.6 / 90
p0 660 ± 318.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 147.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

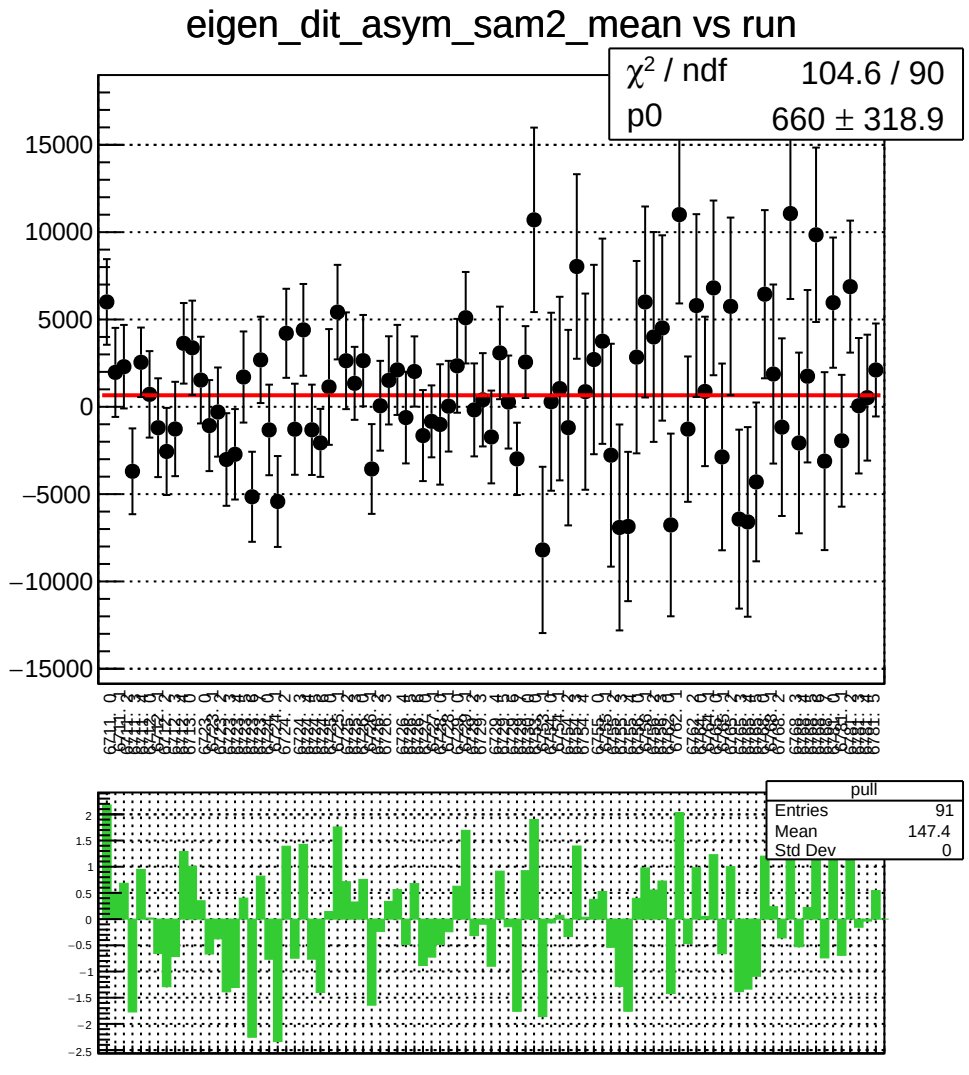

pull1D
Entries 91
Mean 0.03212
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

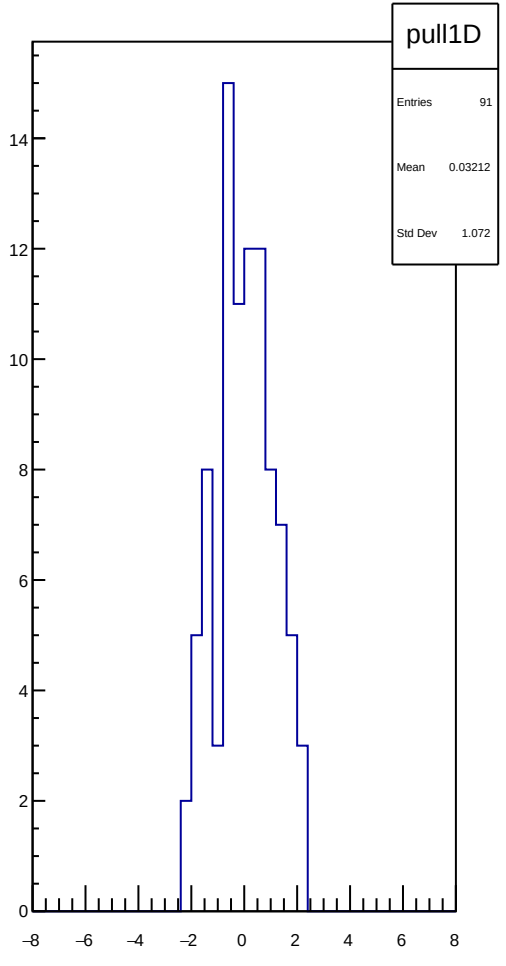

dit_asym_sam2_rms vs run
χ² / ndf 1.623e+05 / 90
p0 288.9 ± 0.2255
650
600
550
500
450
400
350
300
250
200

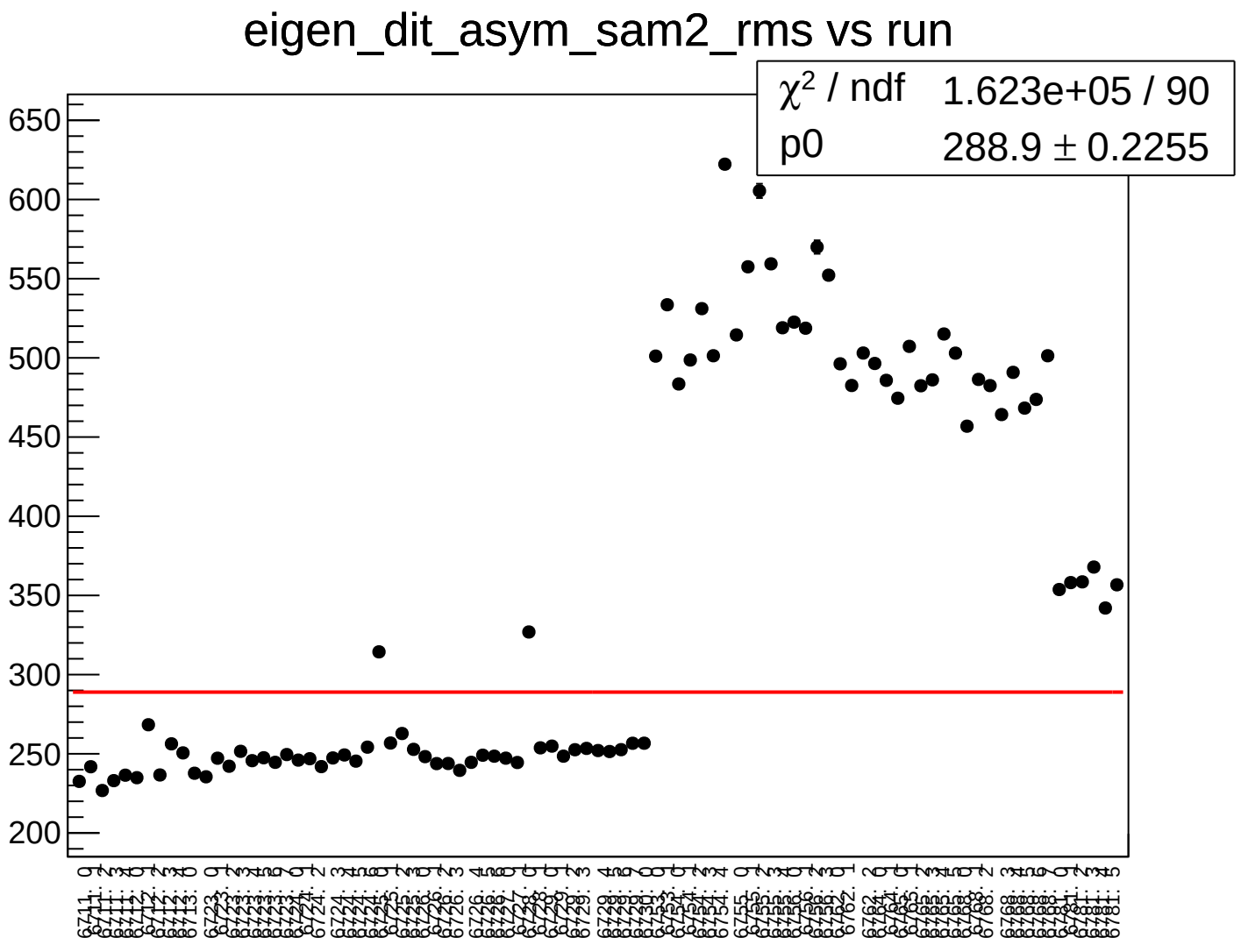

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 104 / 90
p0 2725 ± 2498
100
50
0
−50
−100
pull
Entries 91
Mean 113.9
Std Dev 63.96
3
2
1
0
−1
−2

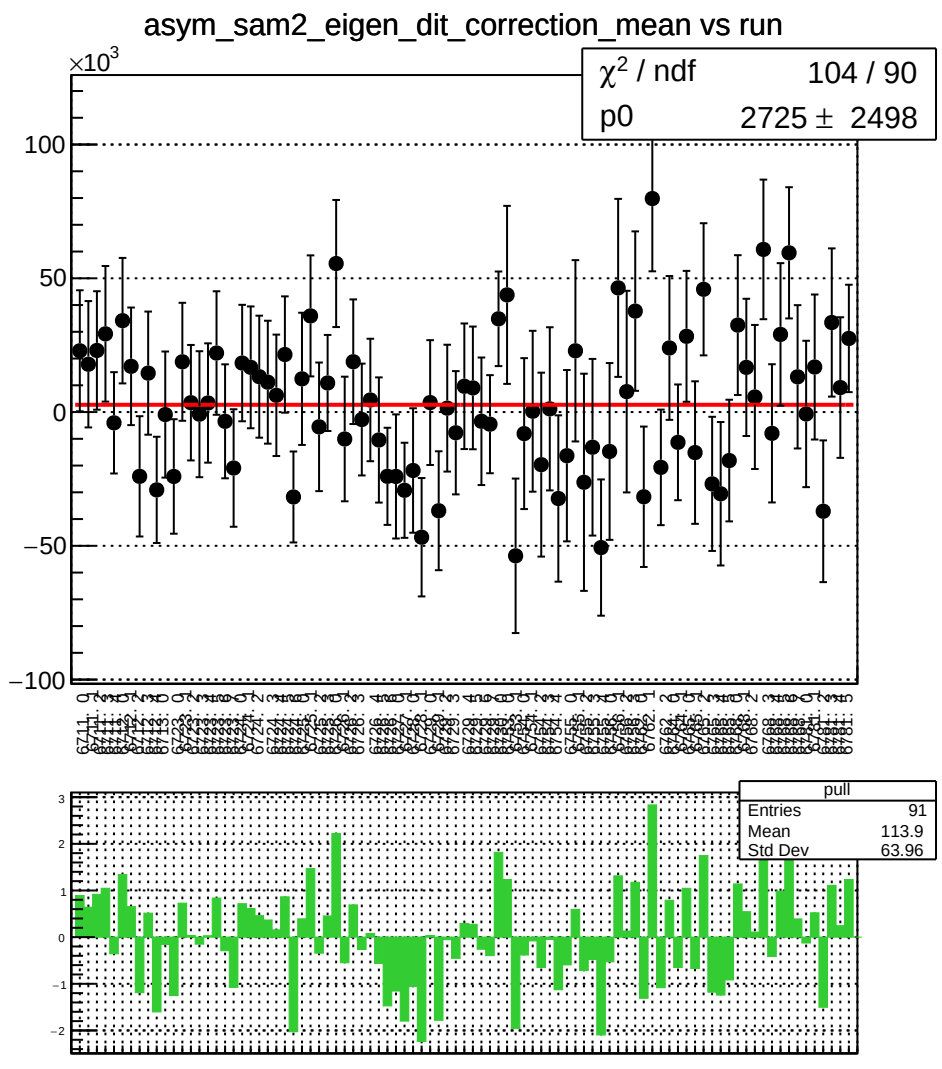

pull1D
Entries 91
Mean 0.02196
Std Dev 1.069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

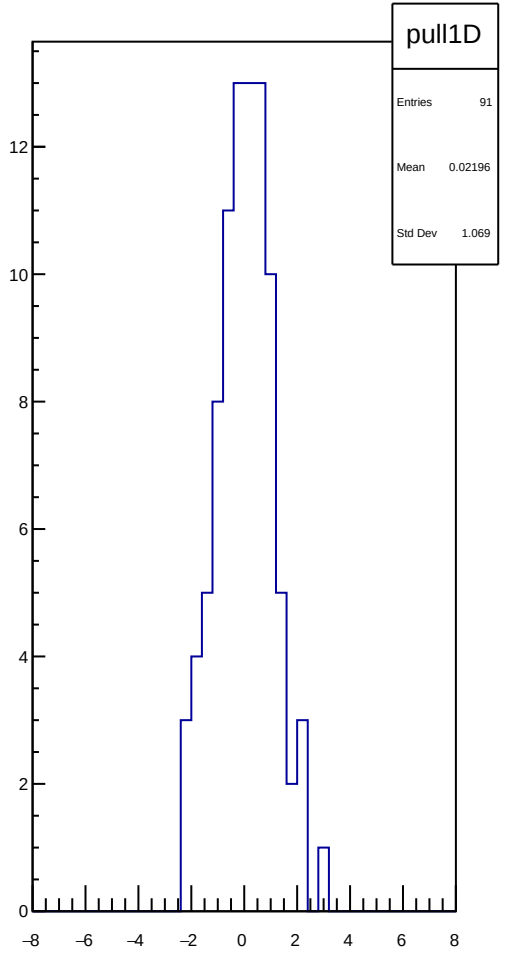

asym_sam2_dit_correction_rms vs run
χ² / ndf 3.251e+04 / 90
p0 2351 ± 1.766
4000
3500
3000
2500
2000

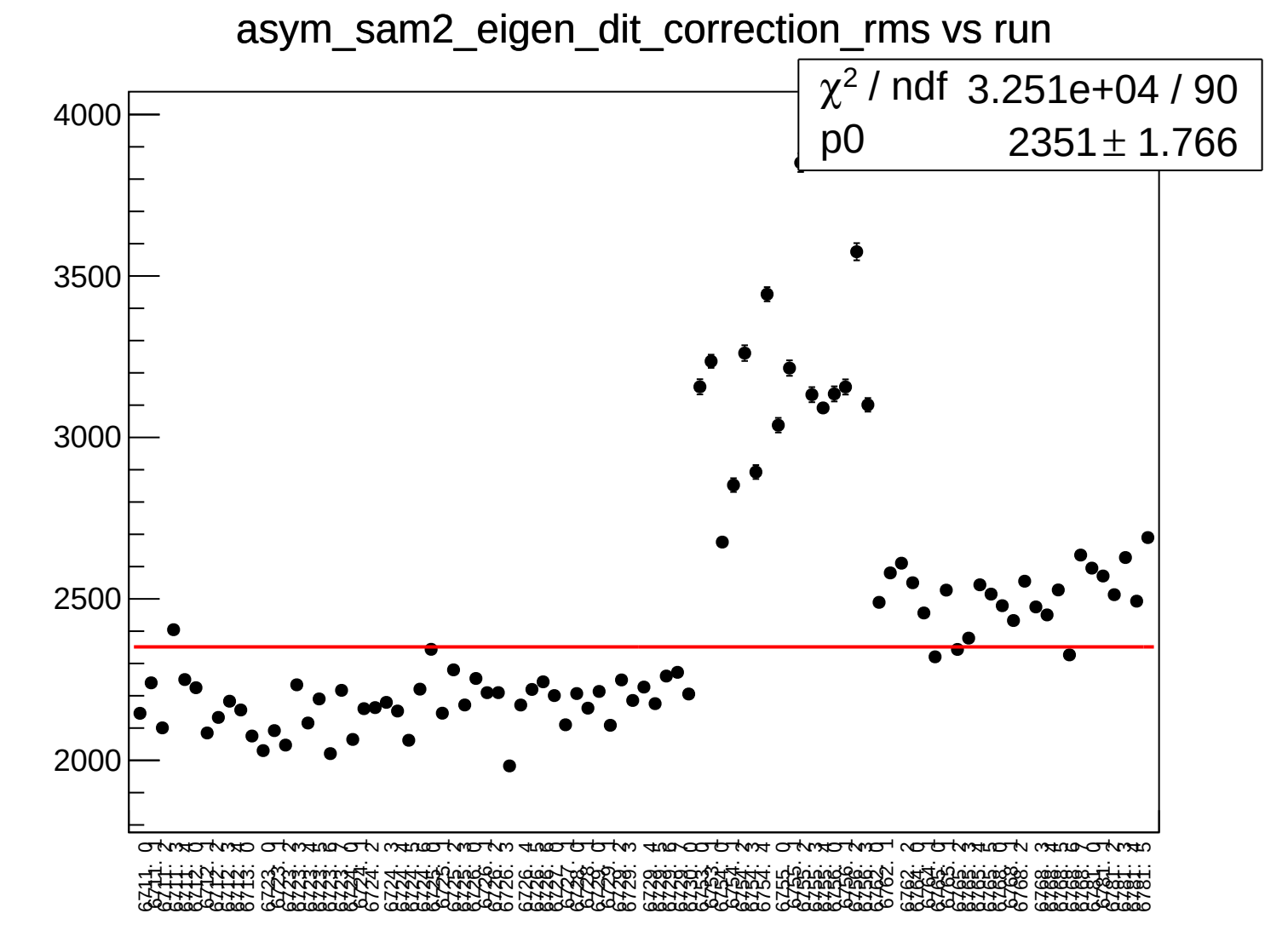

eigen_dit_asym_sam2_mean vs run
χ² / ndf 104.6 / 90
p0 660 ± 318.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 147.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

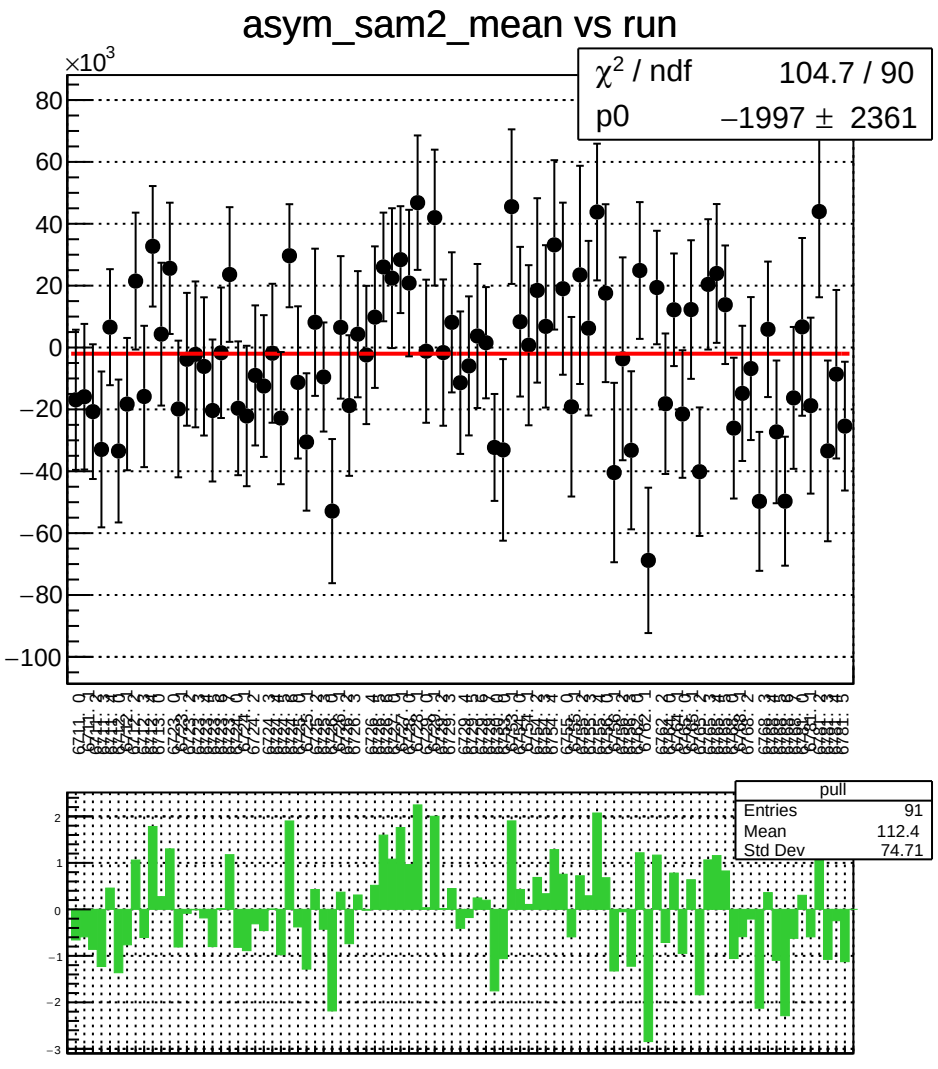

pull1D
Entries 91
Mean 0.03212
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

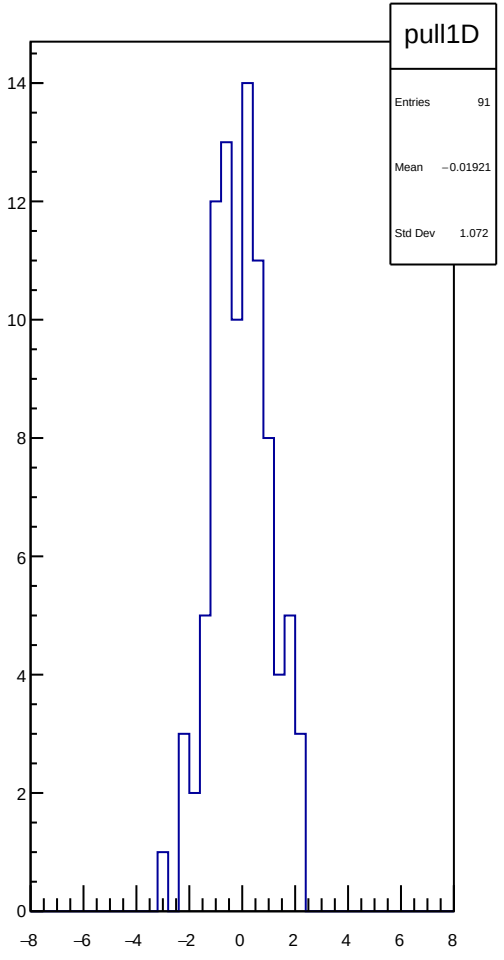

eigen_dit_asym_sam2_rms vs run
χ² / ndf 1.623e+05 / 90
p0 288.9 ± 0.2255
650
600
550
500
450
400
350
300
250
200

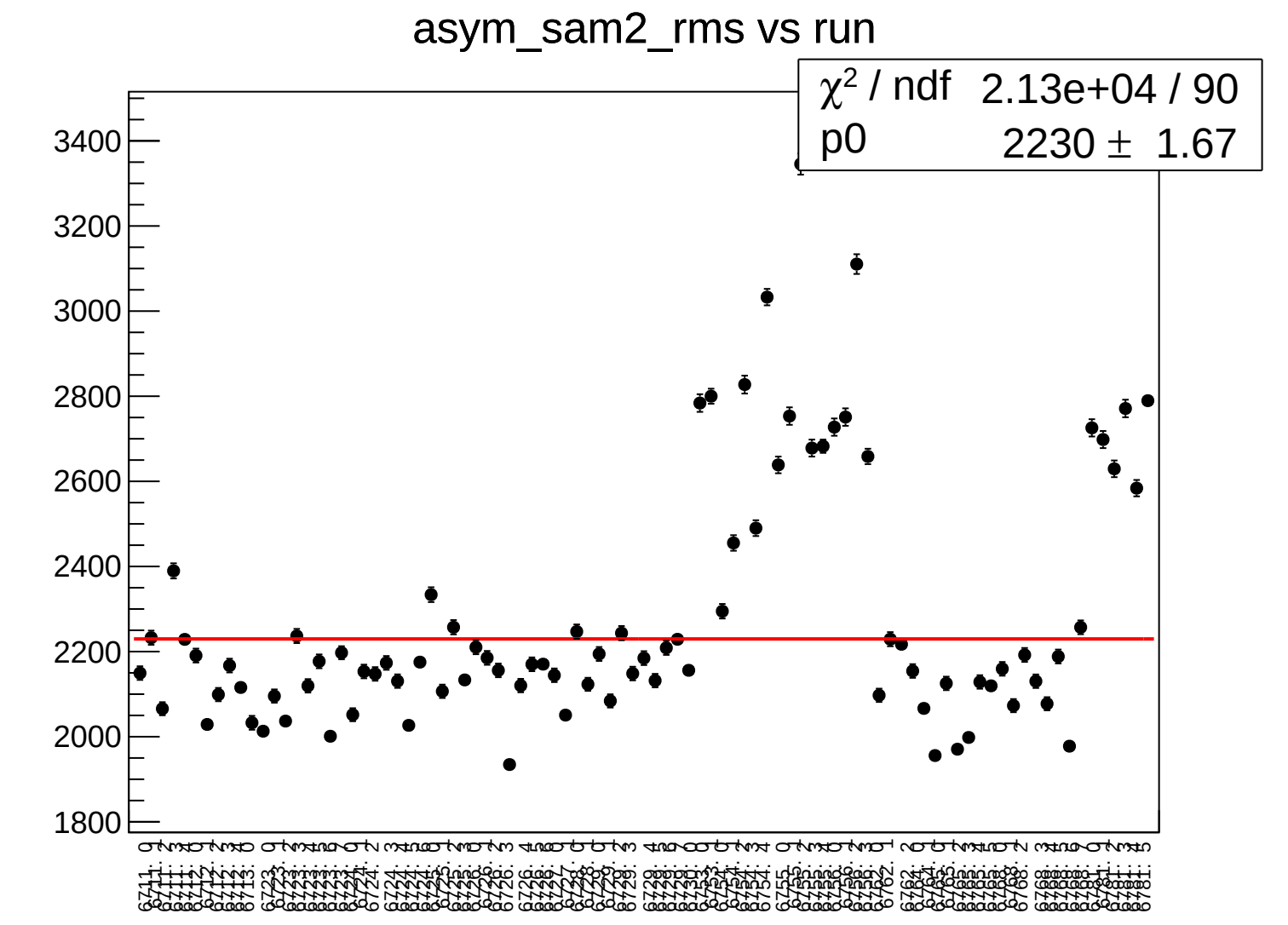

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 104 / 90
p0 2725 ± 2498
100
50
0
−50
−100
pull
Entries 91
Mean 113.9
Std Dev 63.96
3
2
1
0
−1
−2

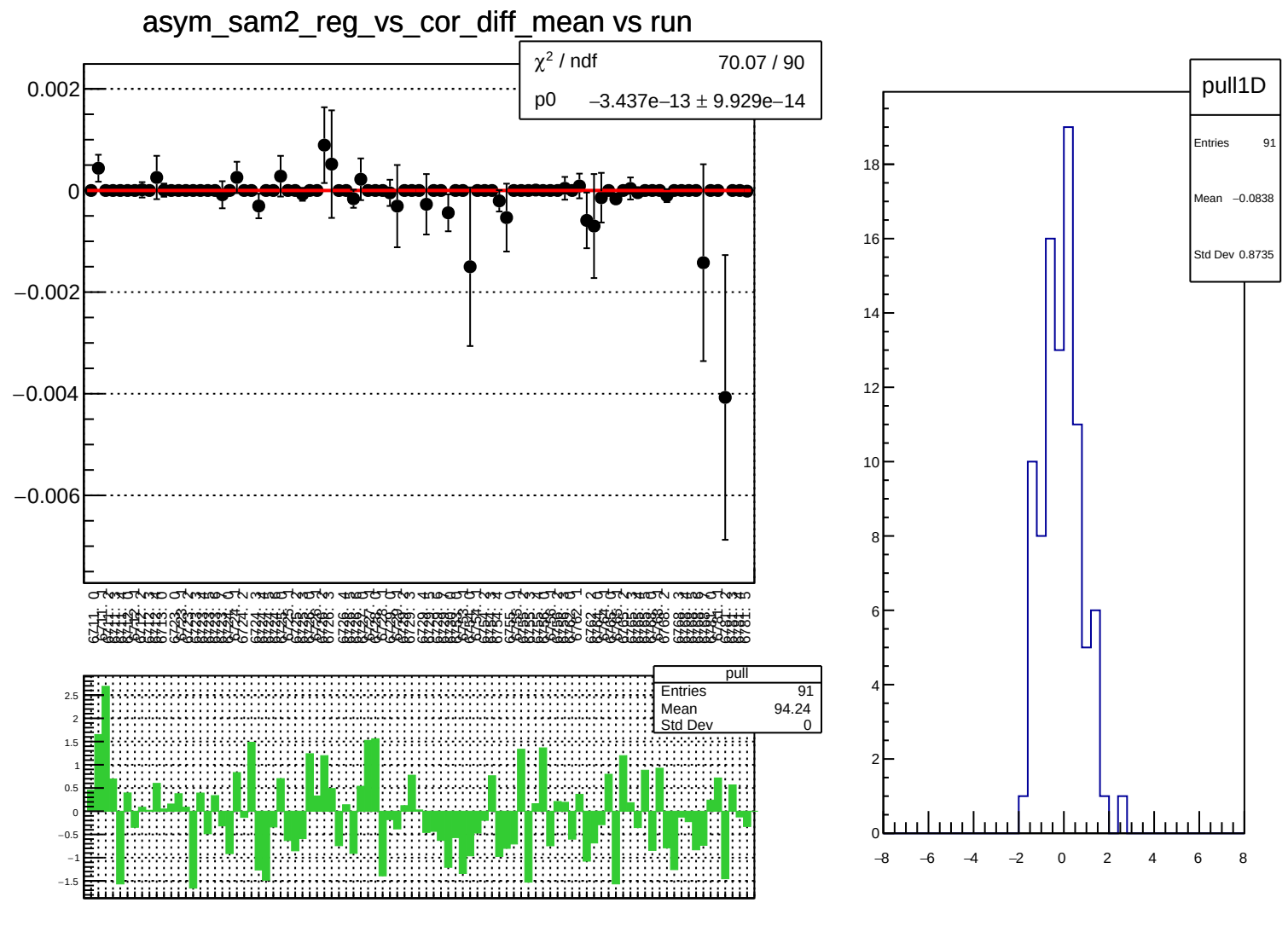

pull1D
Entries 91
Mean 0.02196
Std Dev 1.069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

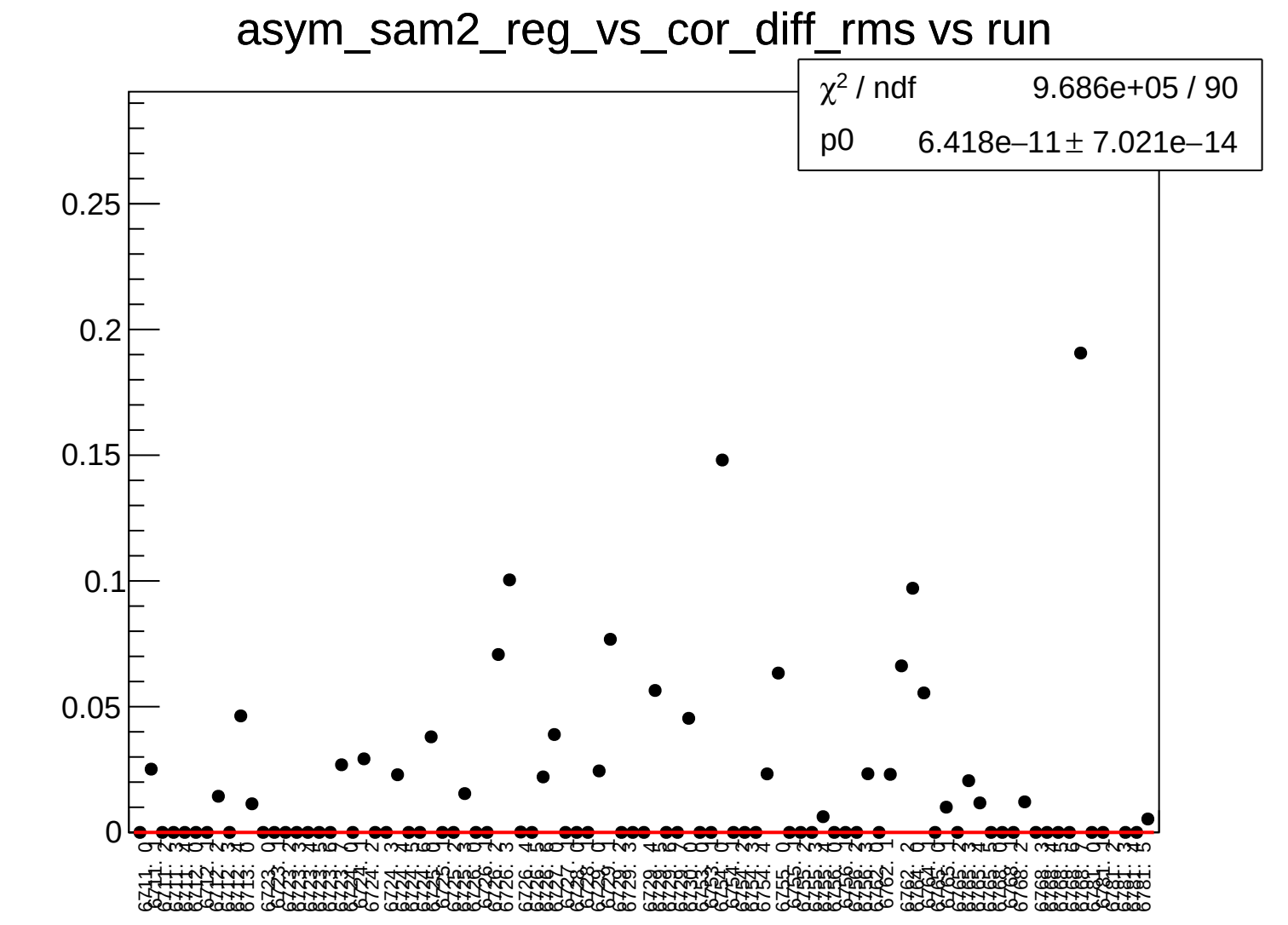

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 3.251e+04 / 90
p0 2351 ± 1.766
4000
3500
3000
2500
2000

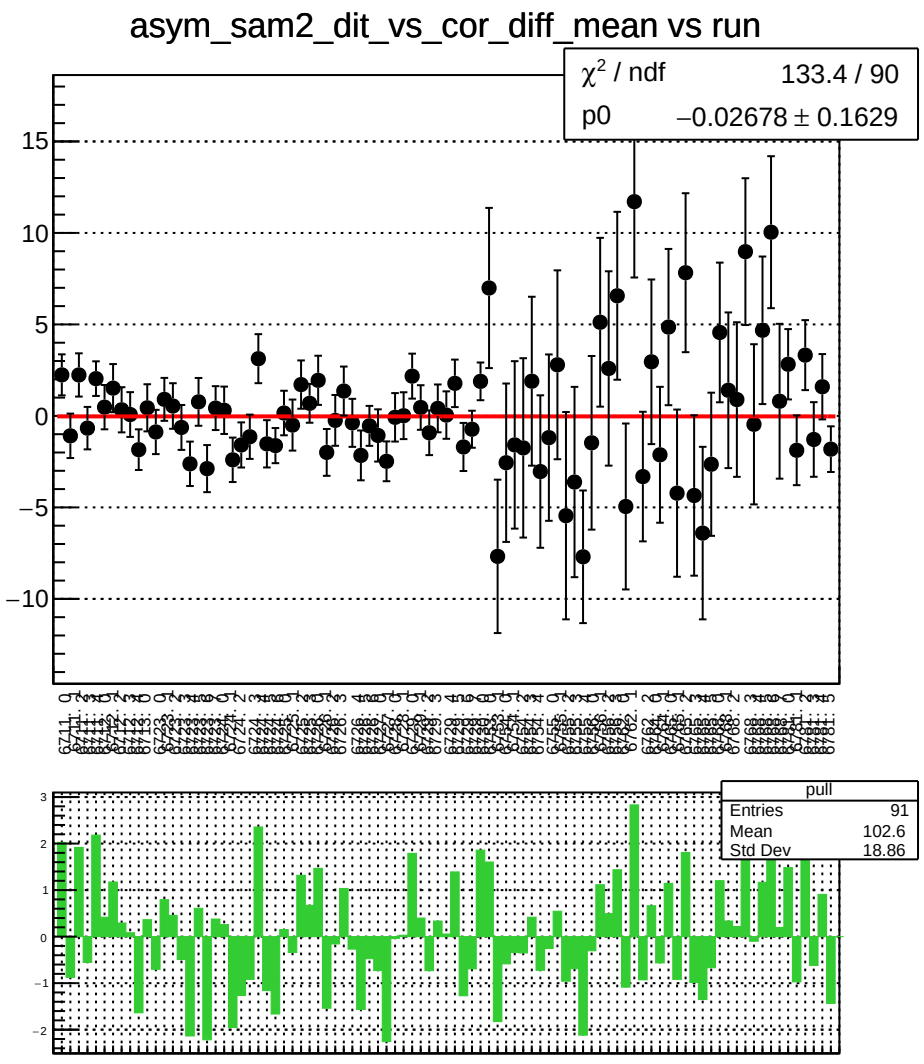

asym_sam2_mean vs run
×10^3
χ² / ndf 104.7 / 90
p0 −1997 ± 2361
pull
Entries 91
Mean 112.4
Std Dev 74.71

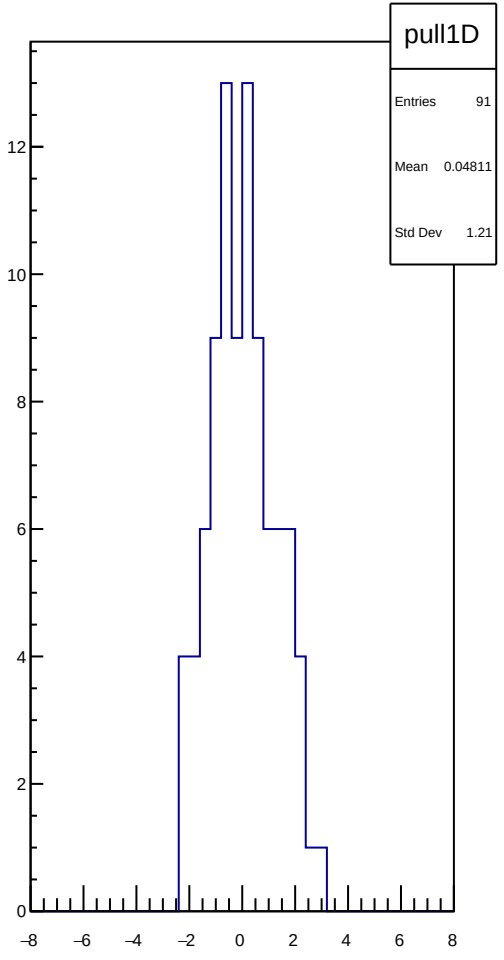

pull1D
Entries 91
Mean −0.01921
Std Dev 1.072

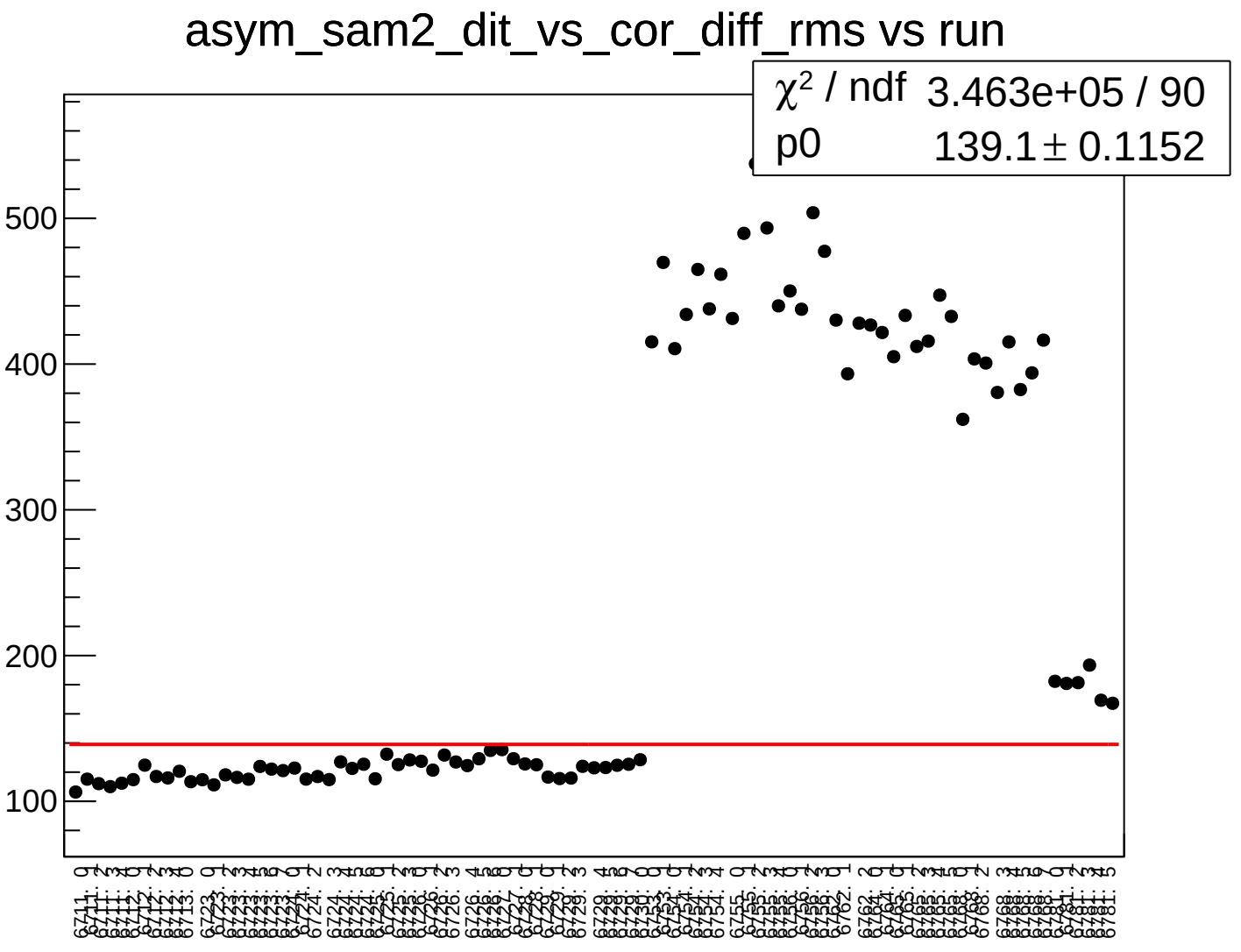

asym_sam2_rms vs run
χ^2 / ndf 2.13e+04 / 90
p0 2230 ± 1.67
3400
3200
3000
2800
2600
2400
2200
2000
1800

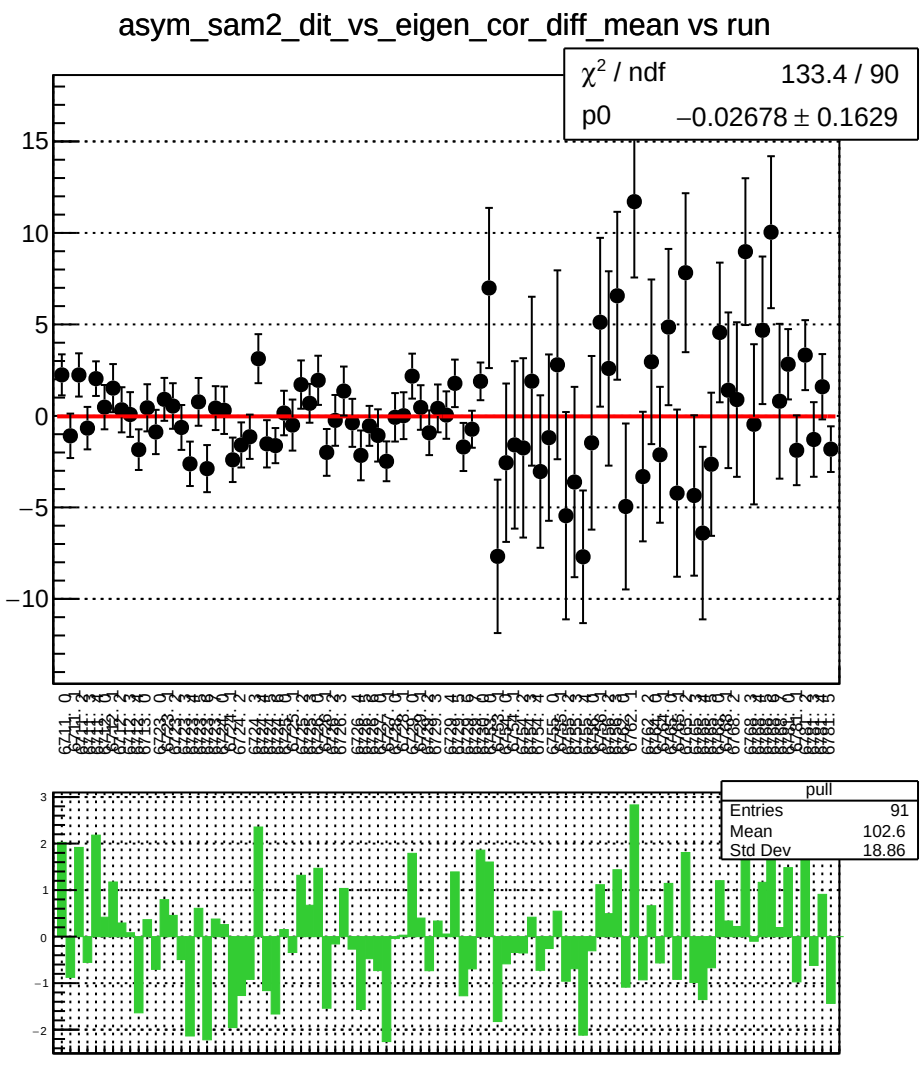

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 70.07 / 90
p0 −3.437e−13 ± 9.929e−14
0.002
0
−0.002
−0.004
−0.006
pull
Entries 91
Mean 94.24
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean −0.0838
Std Dev 0.8735
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

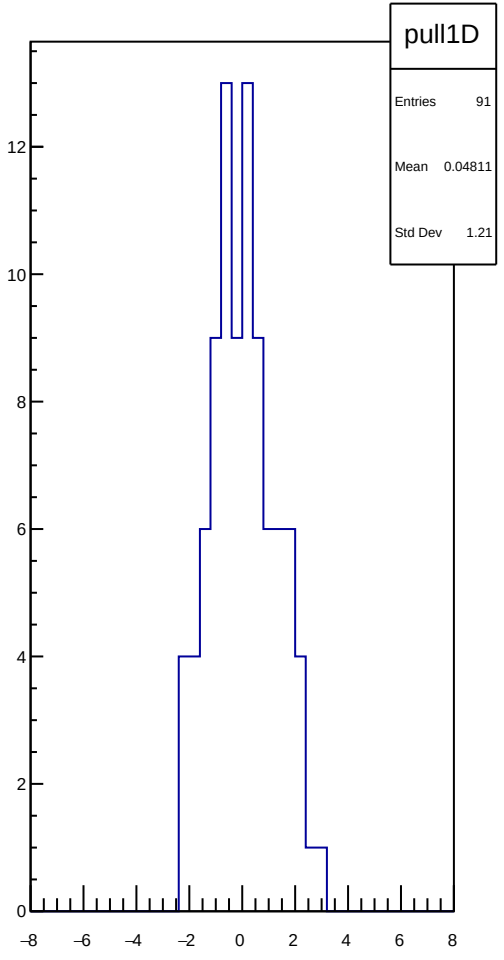

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.686e+05 / 90
p0 6.418e−11 ± 7.021e−14
0.25
0.2
0.15
0.1
0.05
0

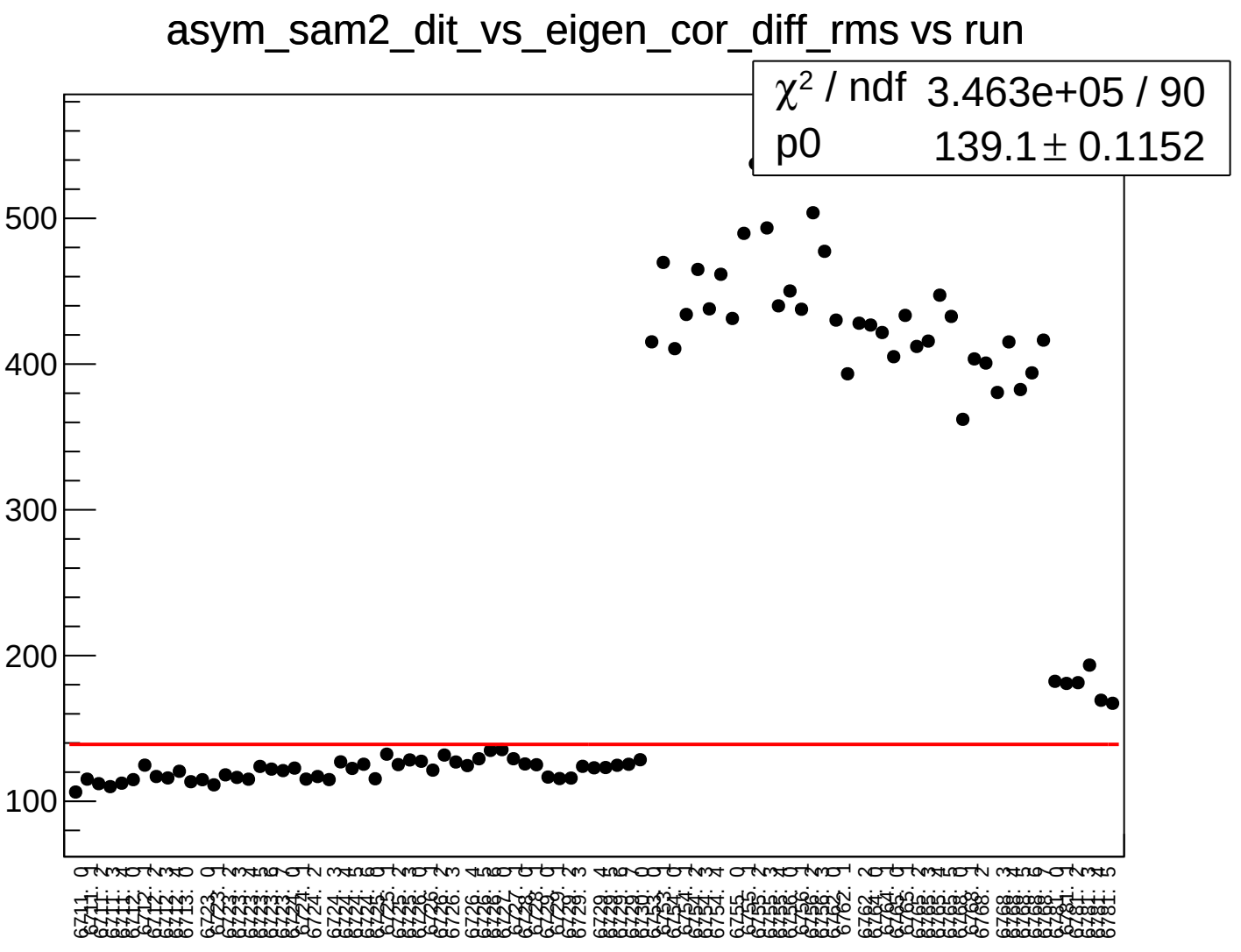

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 133.4 / 90
p0 −0.02678 ± 0.1629
pull
Entries 91
Mean 102.6
Std Dev 18.86

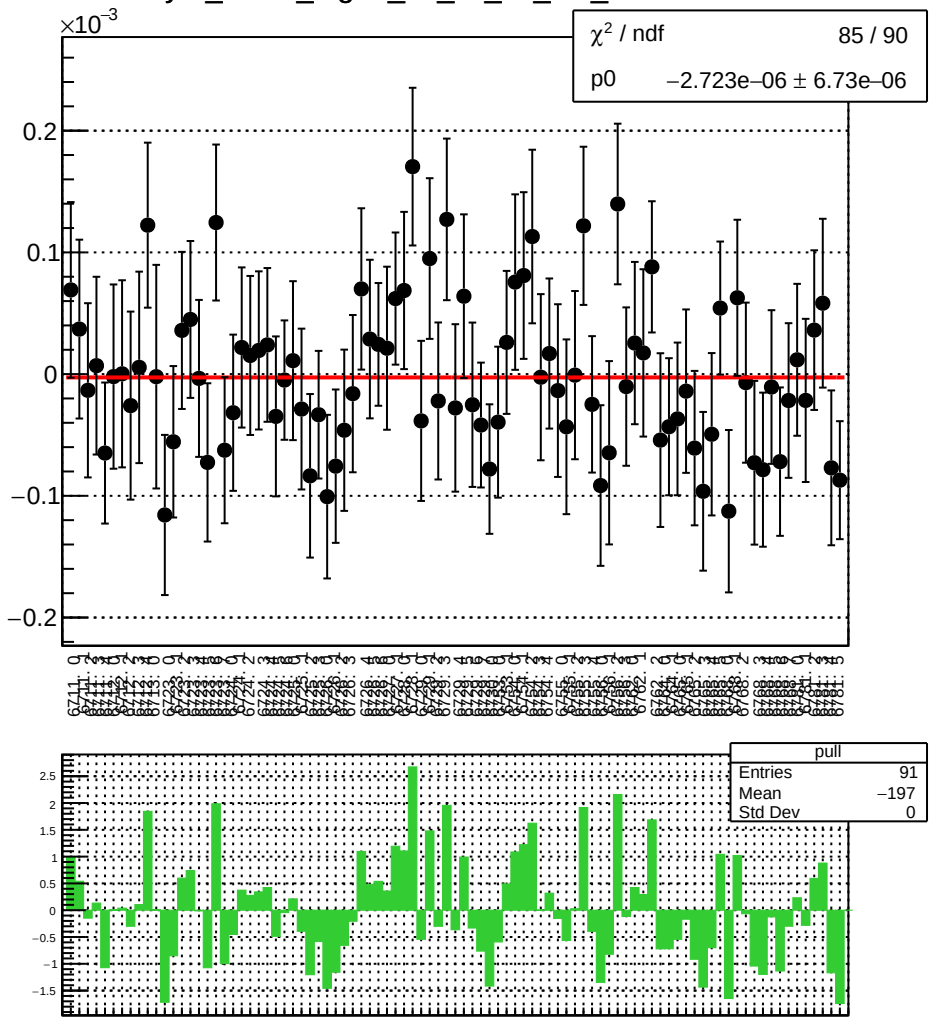

pull1D
Entries 91
Mean 0.04811
Std Dev 1.21

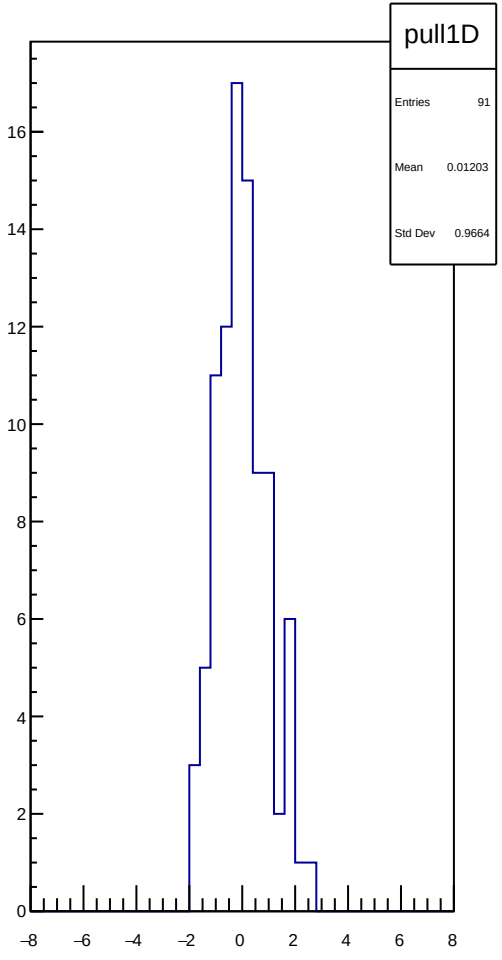

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.463e+05 / 90
p0 139.1 ± 0.1152
500
400
300
200
100

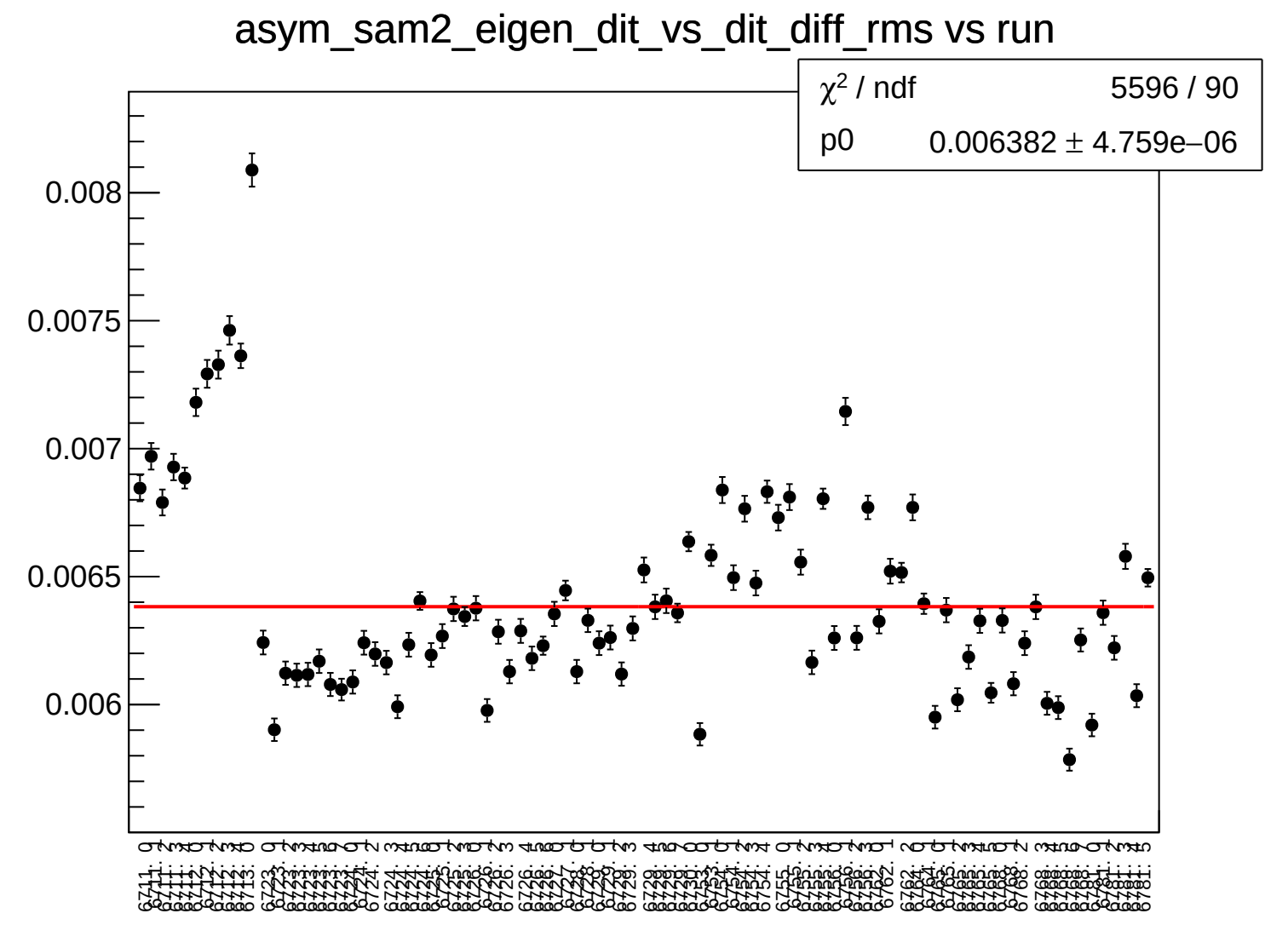

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 133.4 / 90
p0 −0.02678 ± 0.1629
15
10
5
0
−5
−10
pull
Entries 91
Mean 102.6
Std Dev 18.86
3
2
1
0
−1
−2

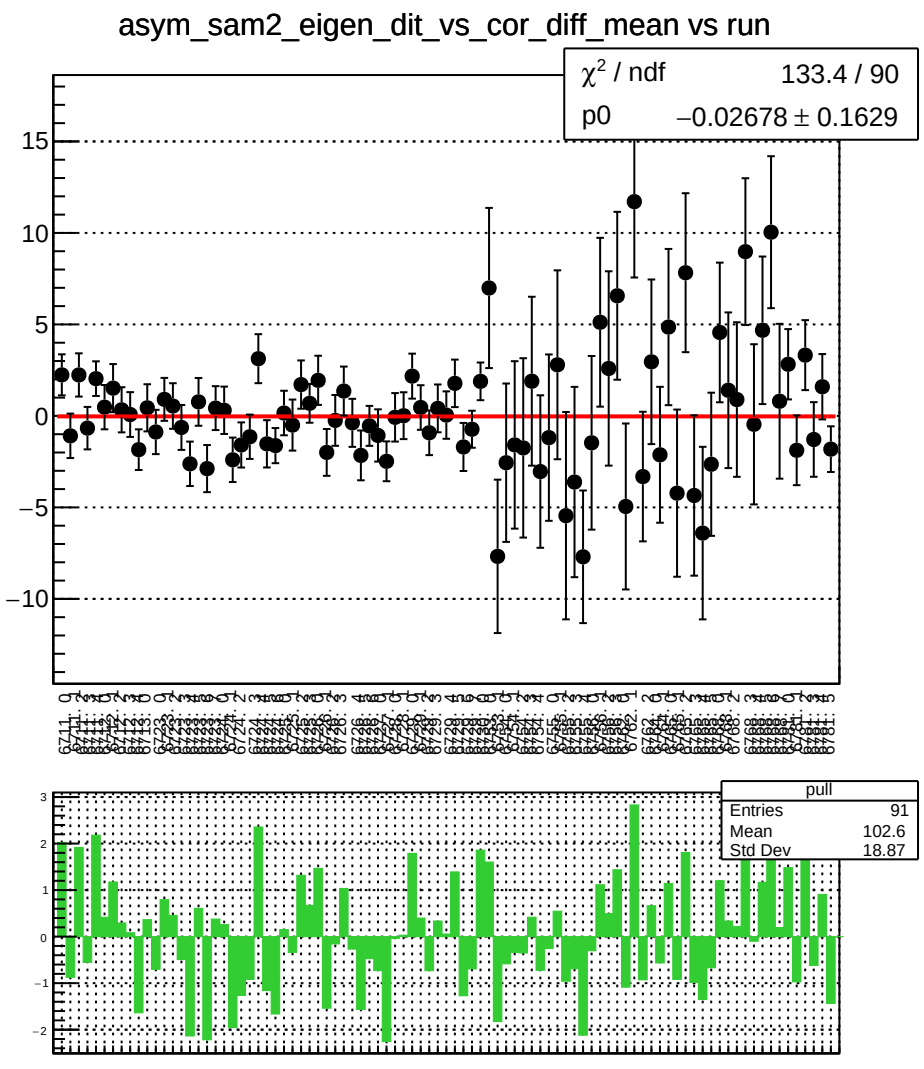

pull1D
Entries 91
Mean 0.04811
Std Dev 1.21
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

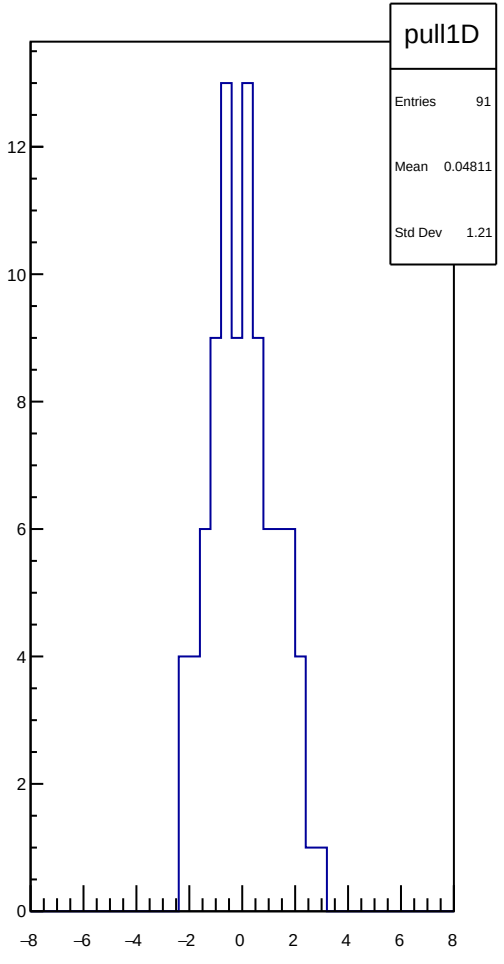

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.463e+05 / 90
p0 139.1 ± 0.1152
500
400
300
200
100

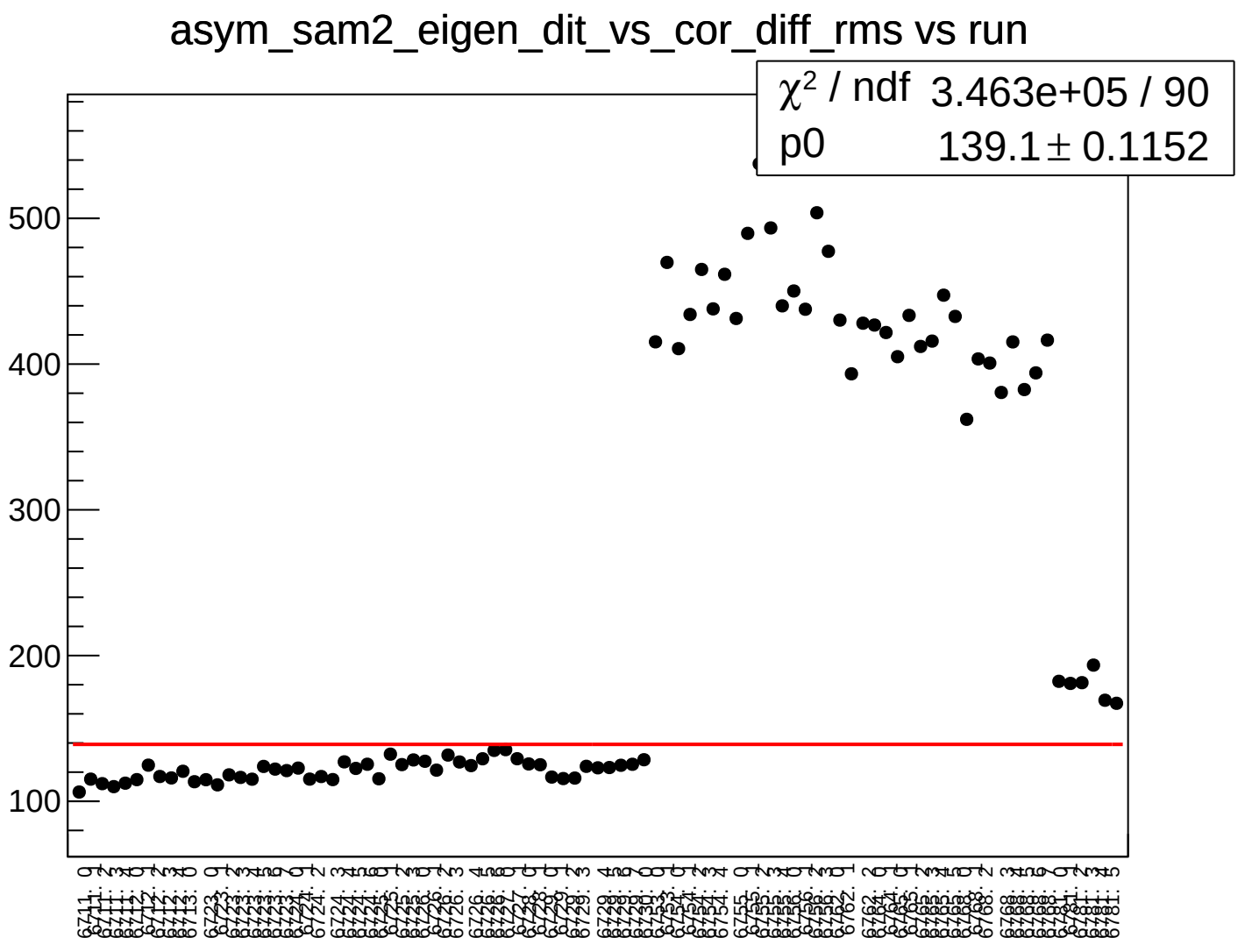

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85 / 90
p0 −2.723e−06 ± 6.73e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 91
Mean −197
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

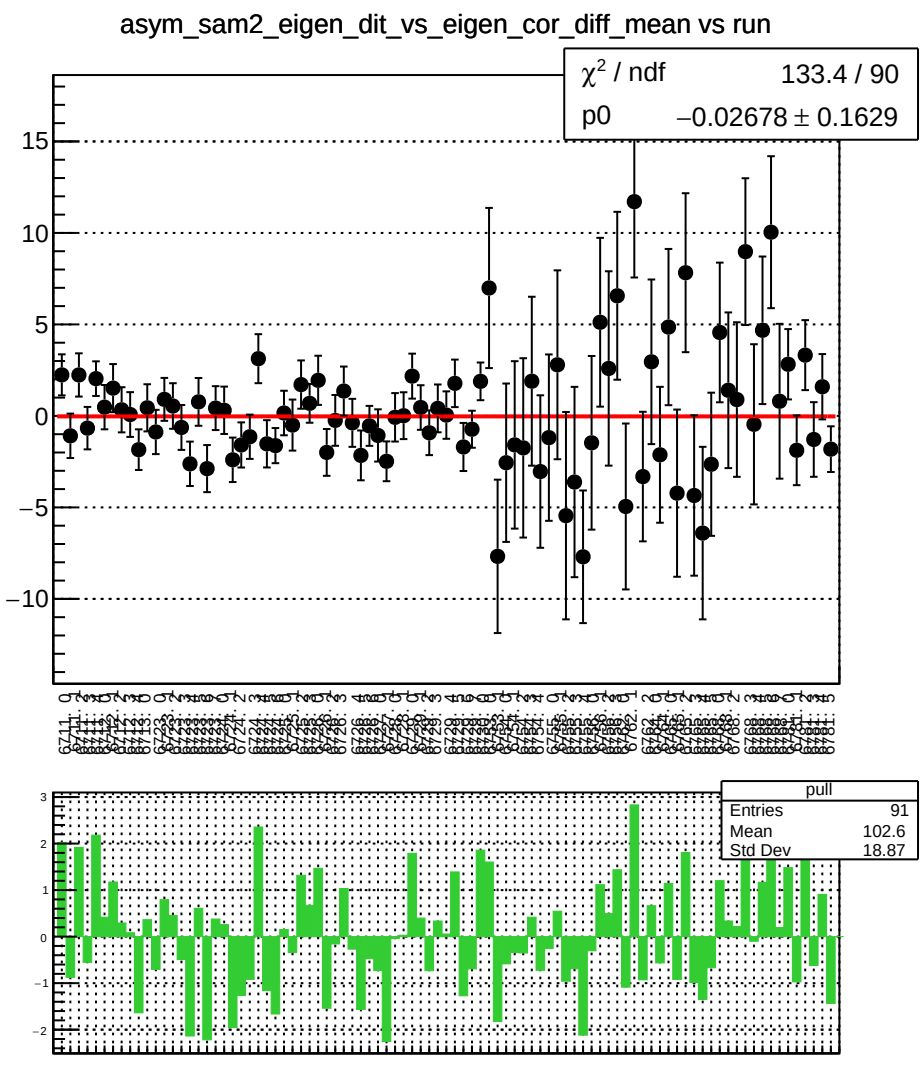

pull1D
Entries 91
Mean 0.01203
Std Dev 0.9664
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

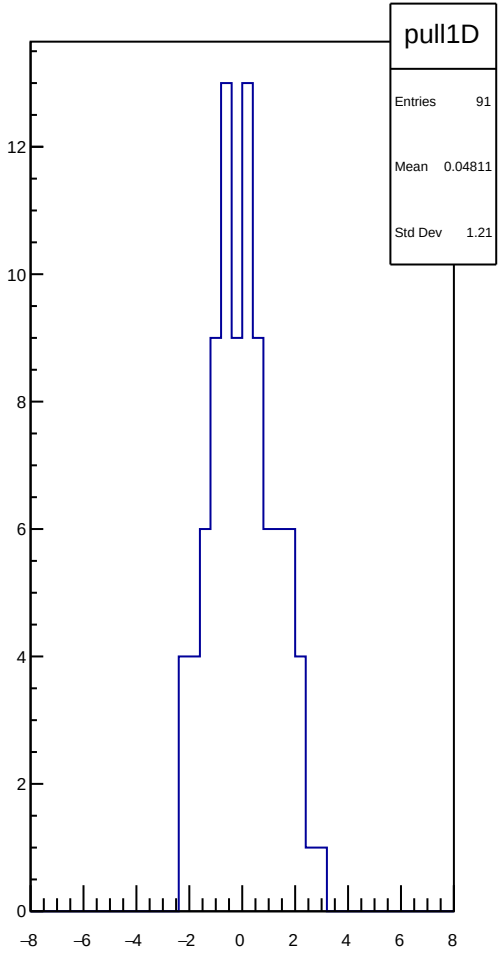

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5596 / 90
p0 0.006382 ± 4.759e−06
0.008
0.0075
0.007
0.0065
0.006

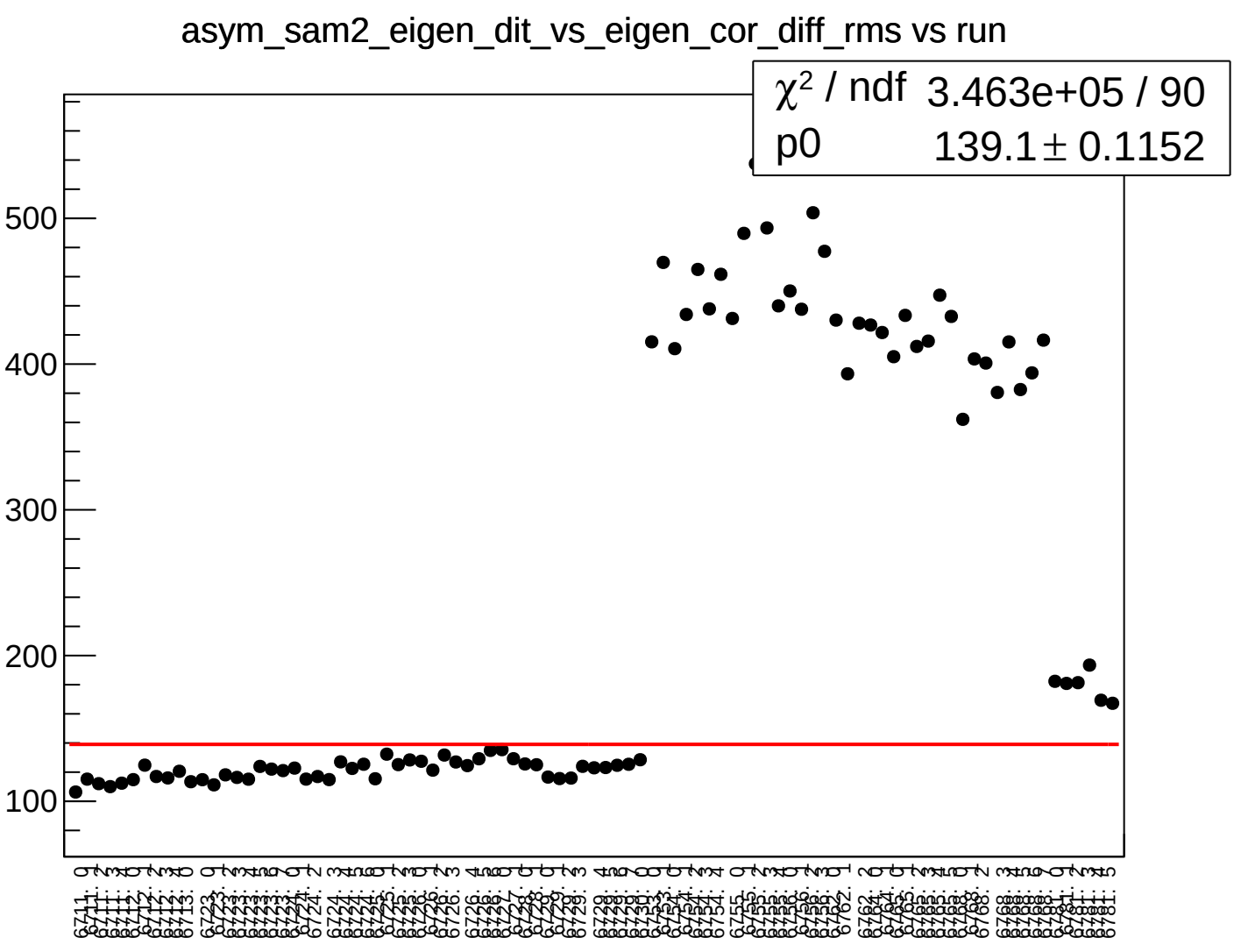

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 133.4 / 90
p0 −0.02678 ± 0.1629
pull
Entries 91
Mean 102.6
Std Dev 18.87

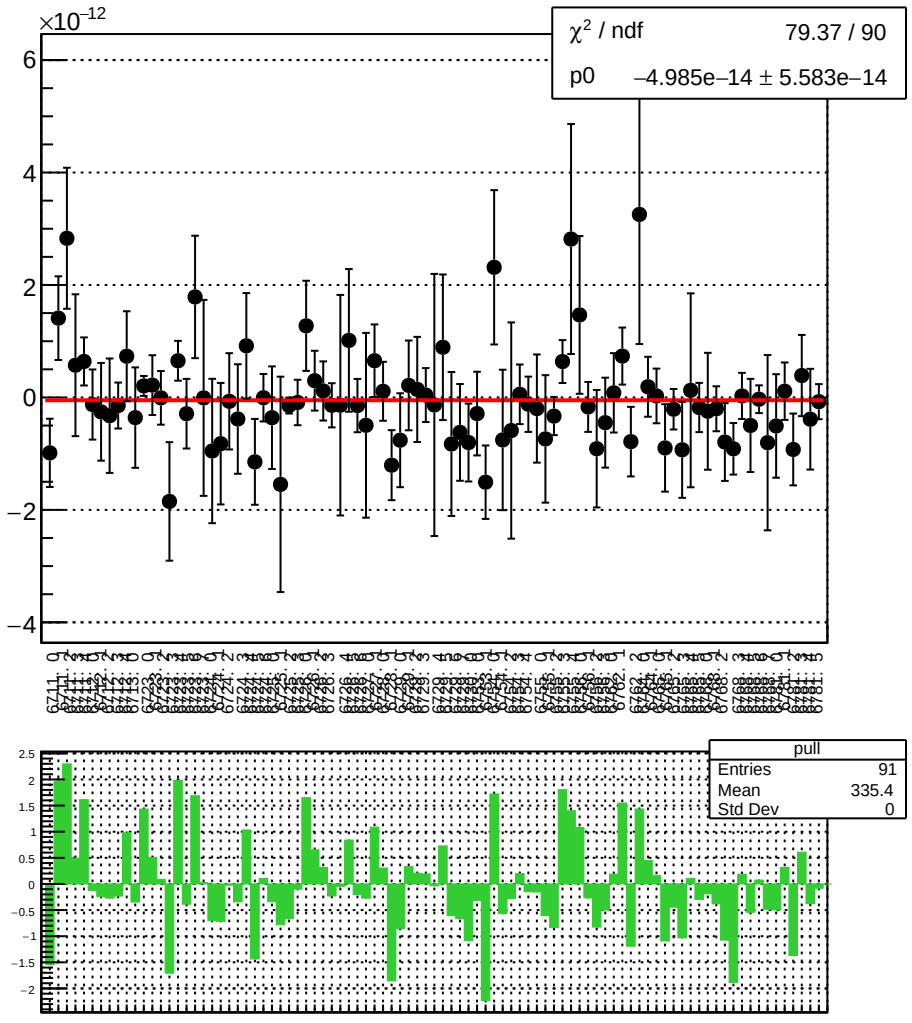

pull1D
Entries 91
Mean 0.04811
Std Dev 1.21

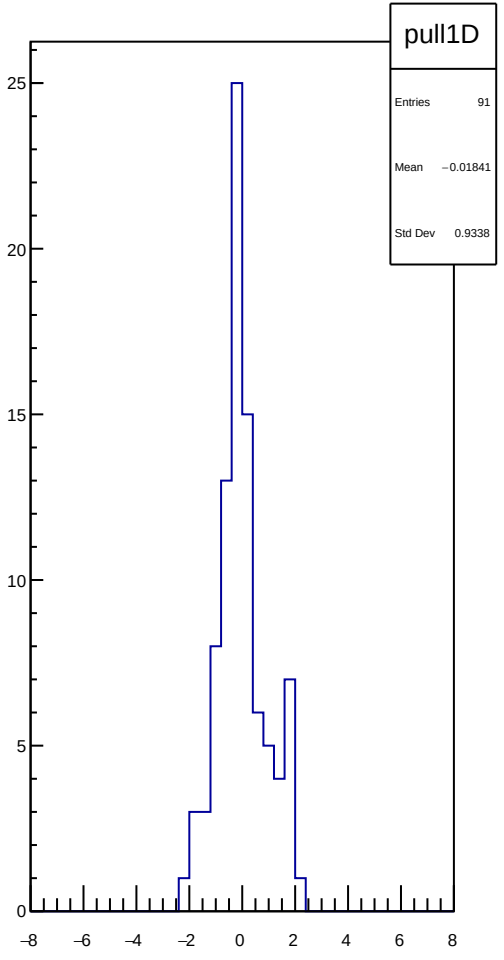

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.463e+05 / 90
p0 139.1 ± 0.1152
500
400
300
200
100

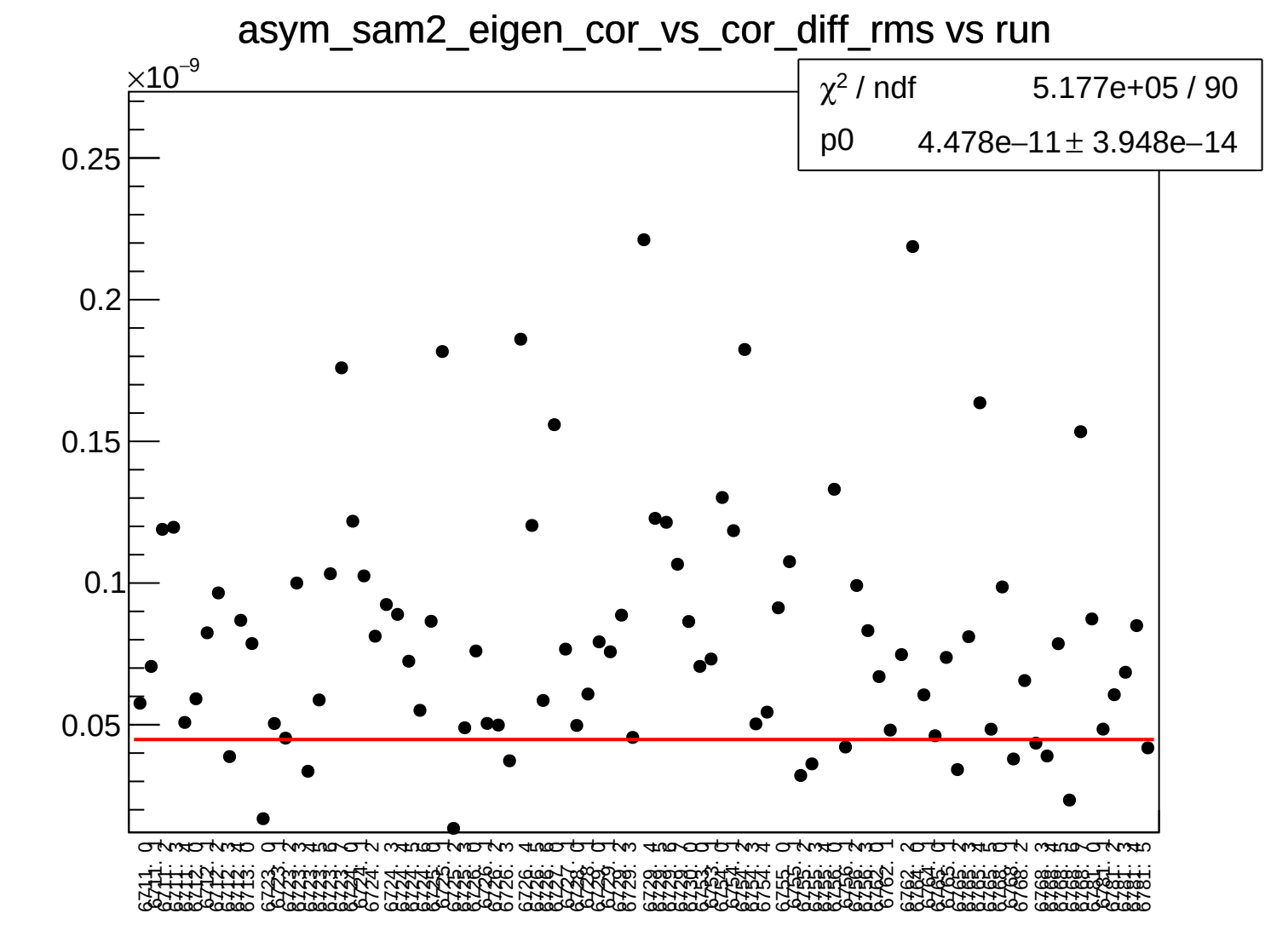

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 133.4 / 90
p0 −0.02678 ± 0.1629
15
10
5
0
−5
−10
pull
Entries 91
Mean 102.6
Std Dev 18.87
3
2
1
0
−1
−2

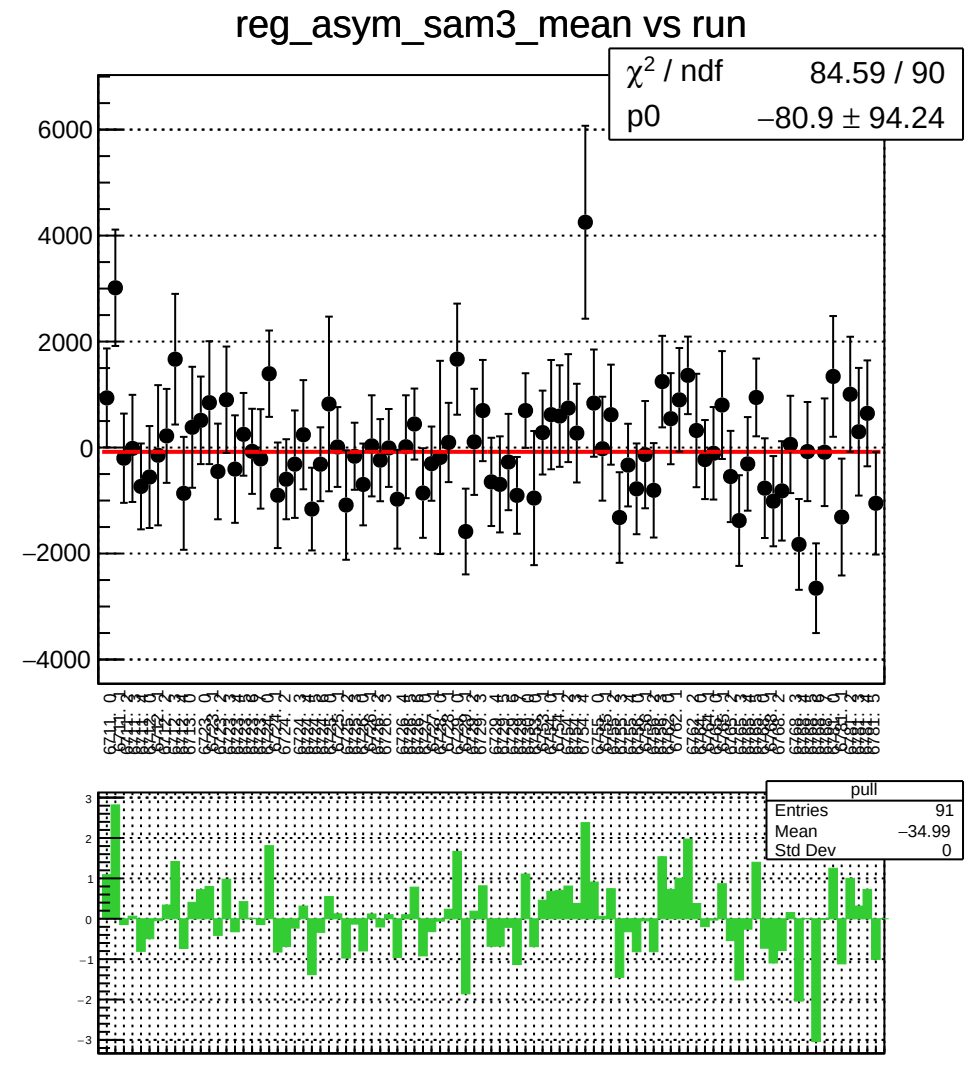

pull1D
Entries 91
Mean 0.04811
Std Dev 1.21
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

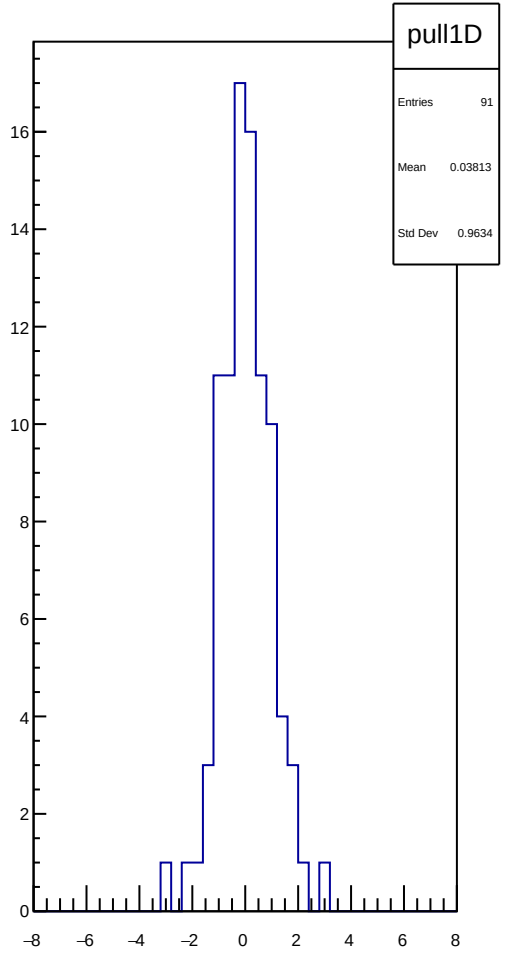

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.463e+05 / 90
p0 139.1 ± 0.1152
500
400
300
200
100

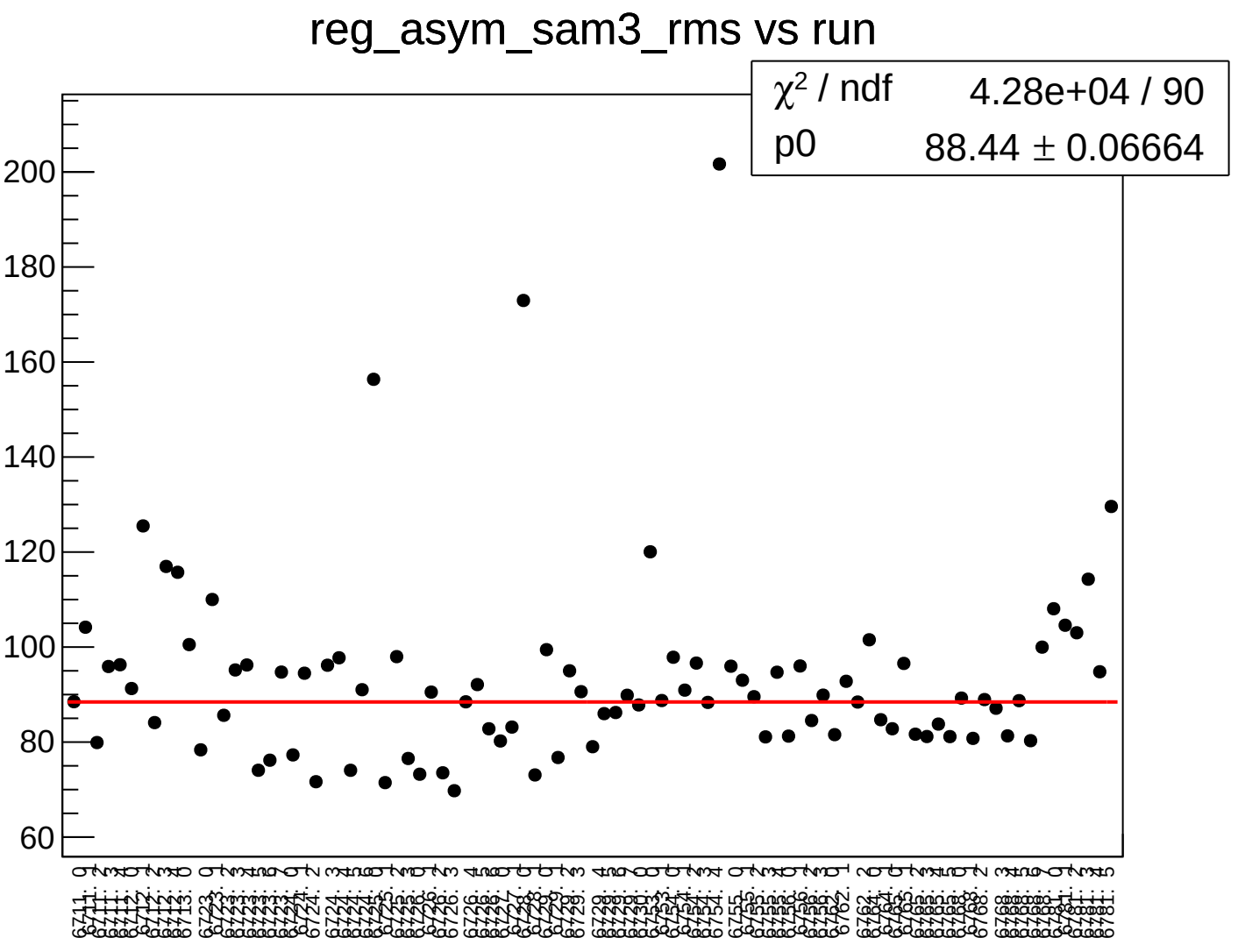

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.37 / 90
p0 −4.985e−14 ± 5.583e−14
pull
Entries 91
Mean 335.4
Std Dev 0

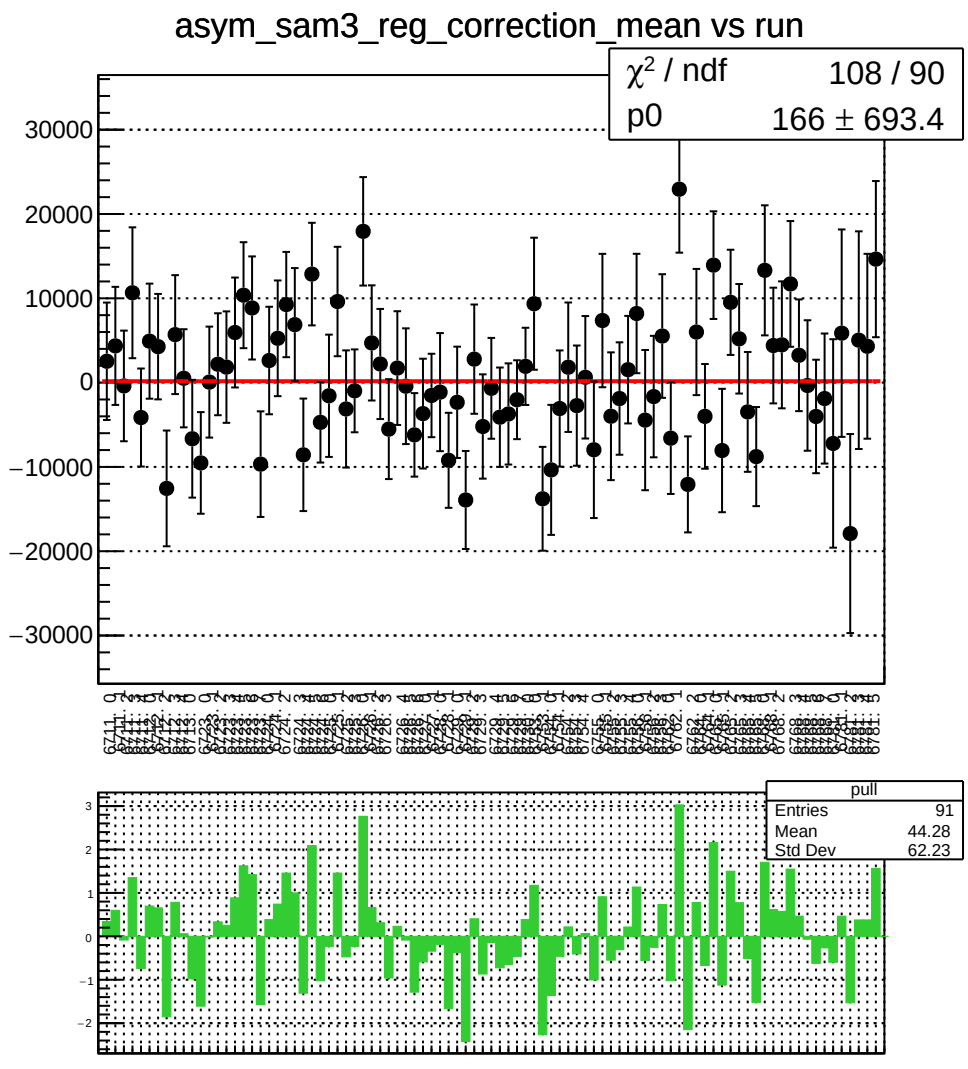

pull1D
Entries 91
Mean −0.01841
Std Dev 0.9338

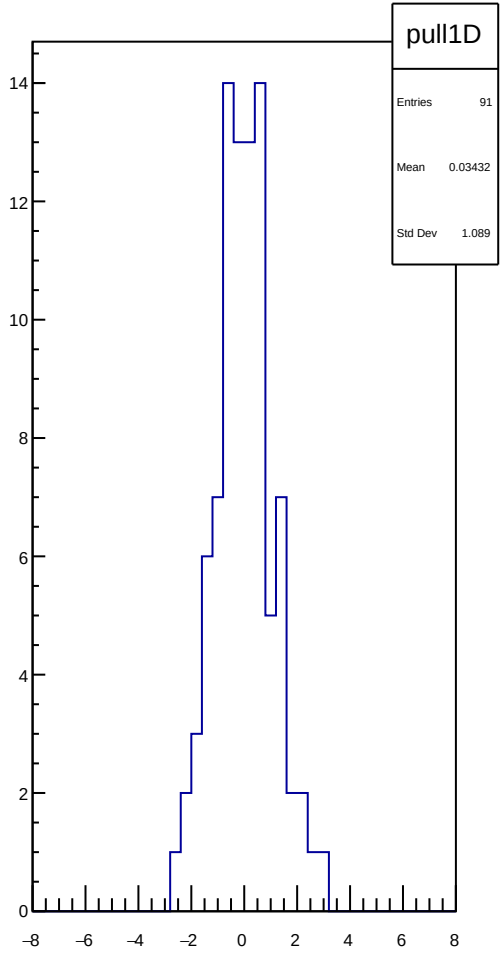

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.177e+05 / 90
p0 4.478e−11 ± 3.948e−14
0.25
0.2
0.15
0.1
0.05

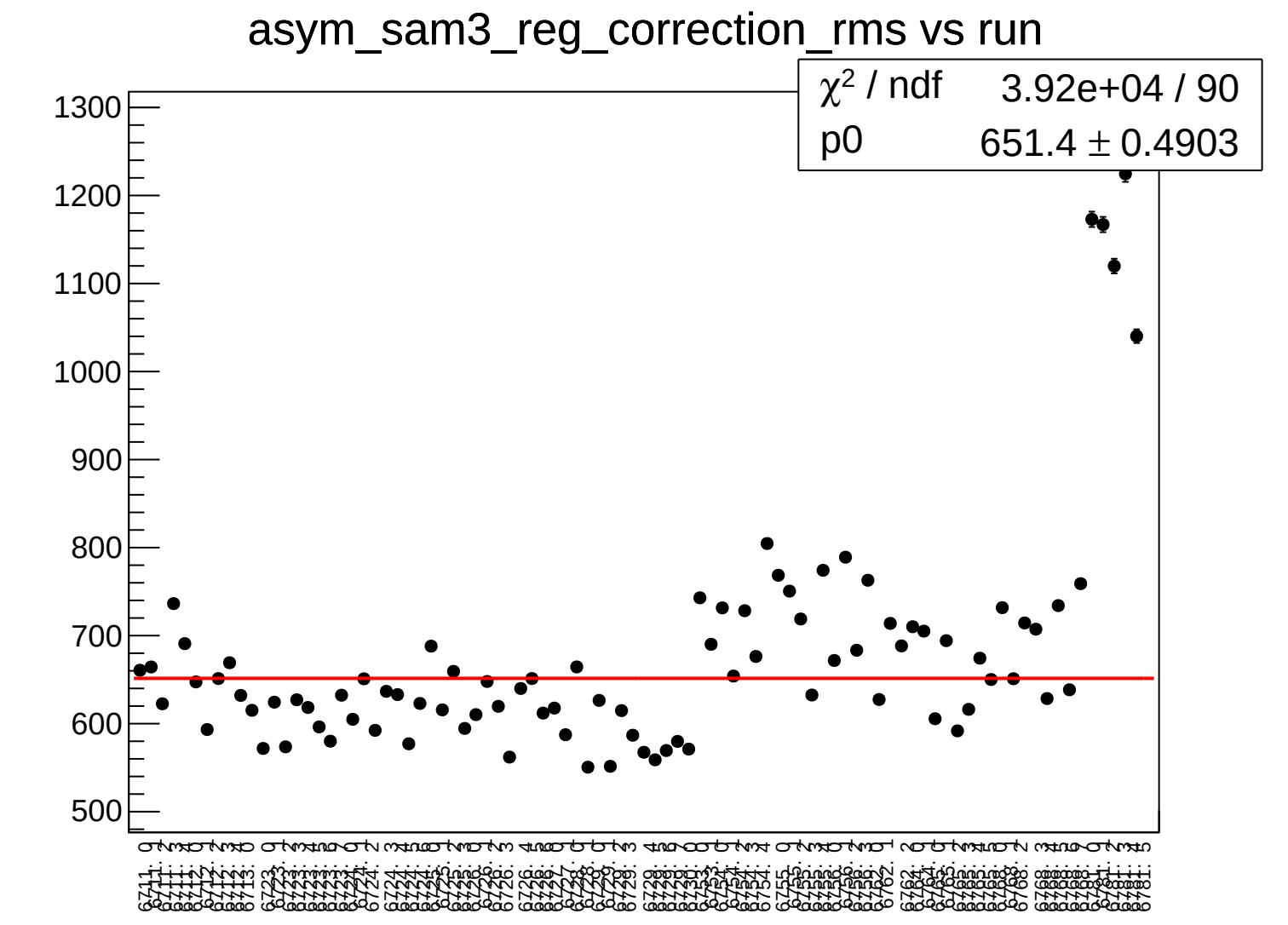

reg_asym_sam3_mean vs run
χ² / ndf 84.59 / 90
p0 −80.9 ± 94.24
pull
Entries 91
Mean −34.99
Std Dev 0

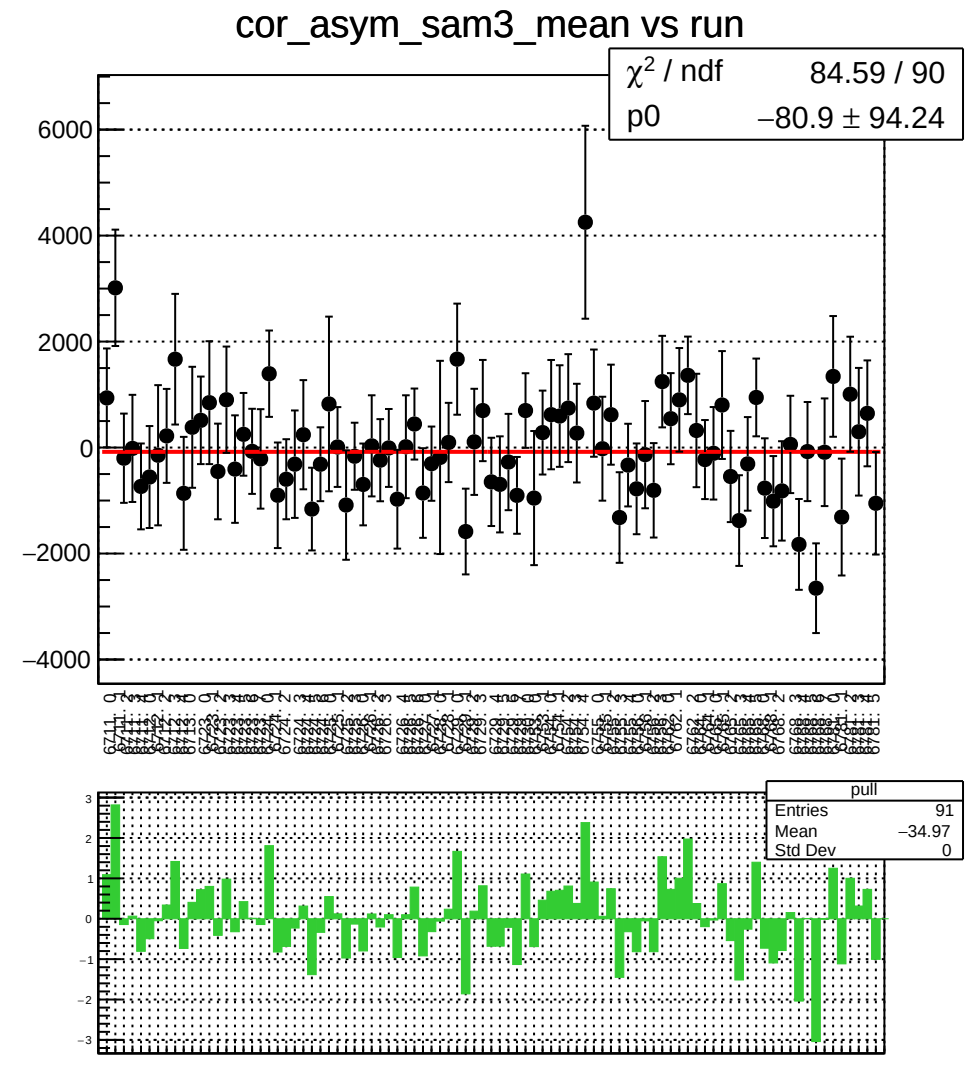

pull1D
Entries 91
Mean 0.03813
Std Dev 0.9634

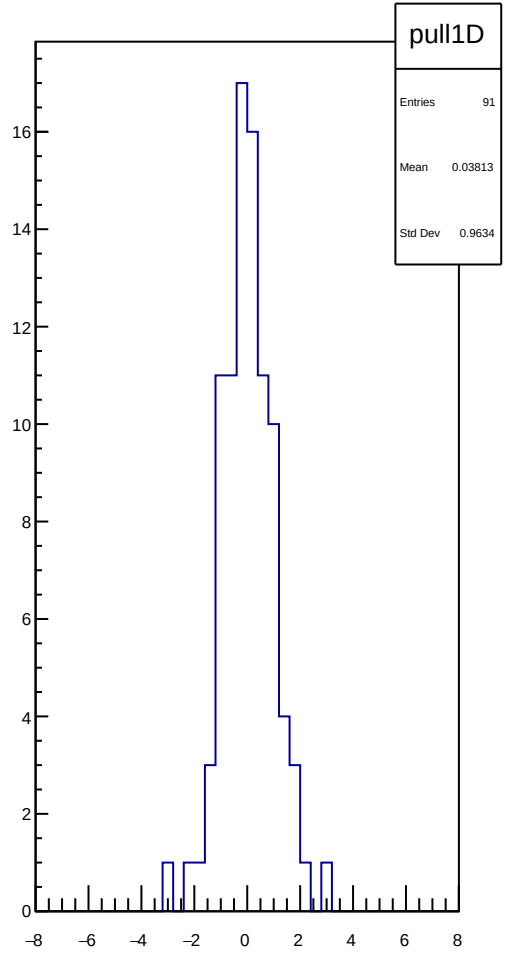

reg_asym_sam3_rms vs run
χ² / ndf 4.28e+04 / 90
p0 88.44 ± 0.06664
200
180
160
140
120
100
80
60

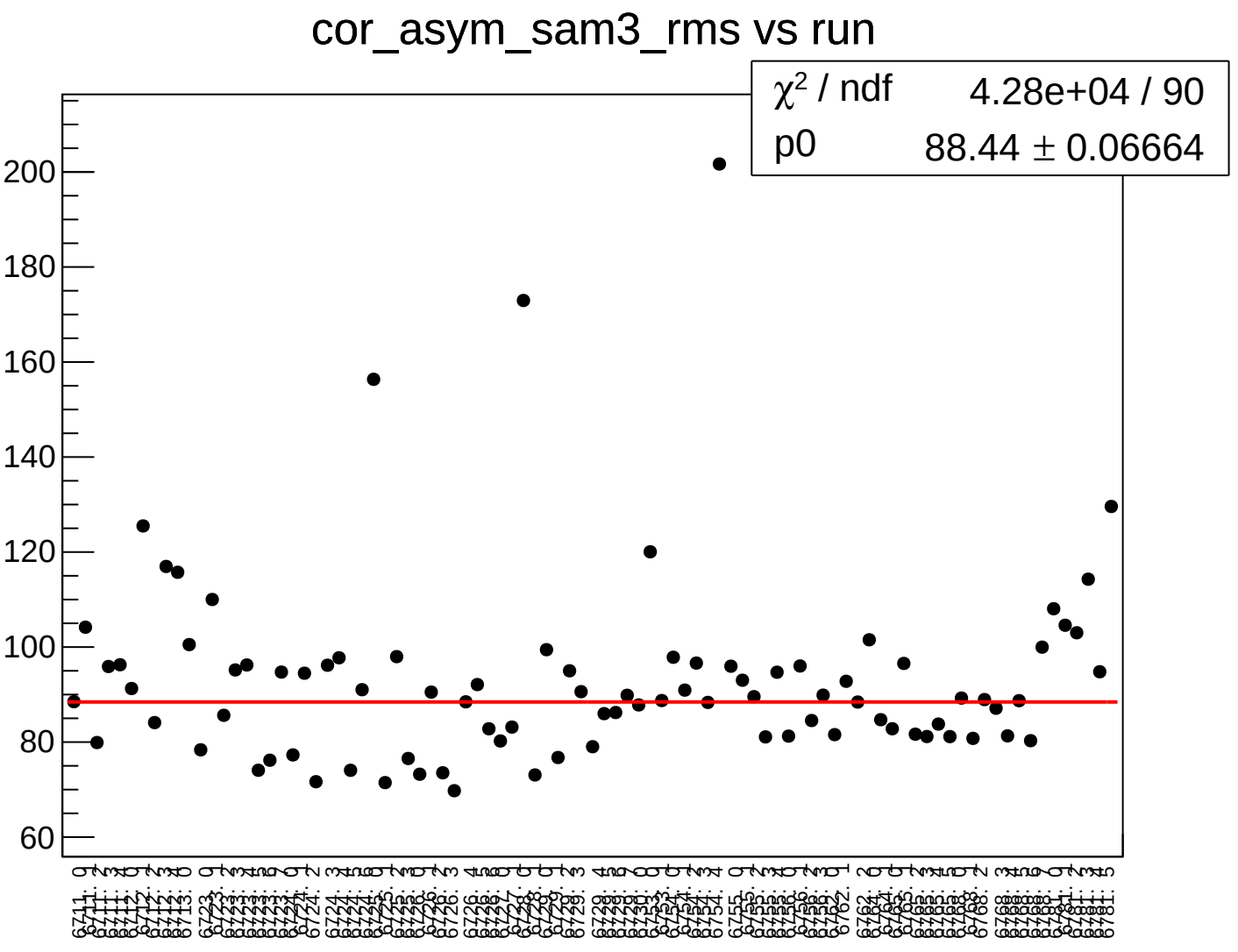

asym_sam3_reg_correction_mean vs run
χ² / ndf 108 / 90
p0 166 ± 693.4
pull
Entries 91
Mean 44.28
Std Dev 62.23

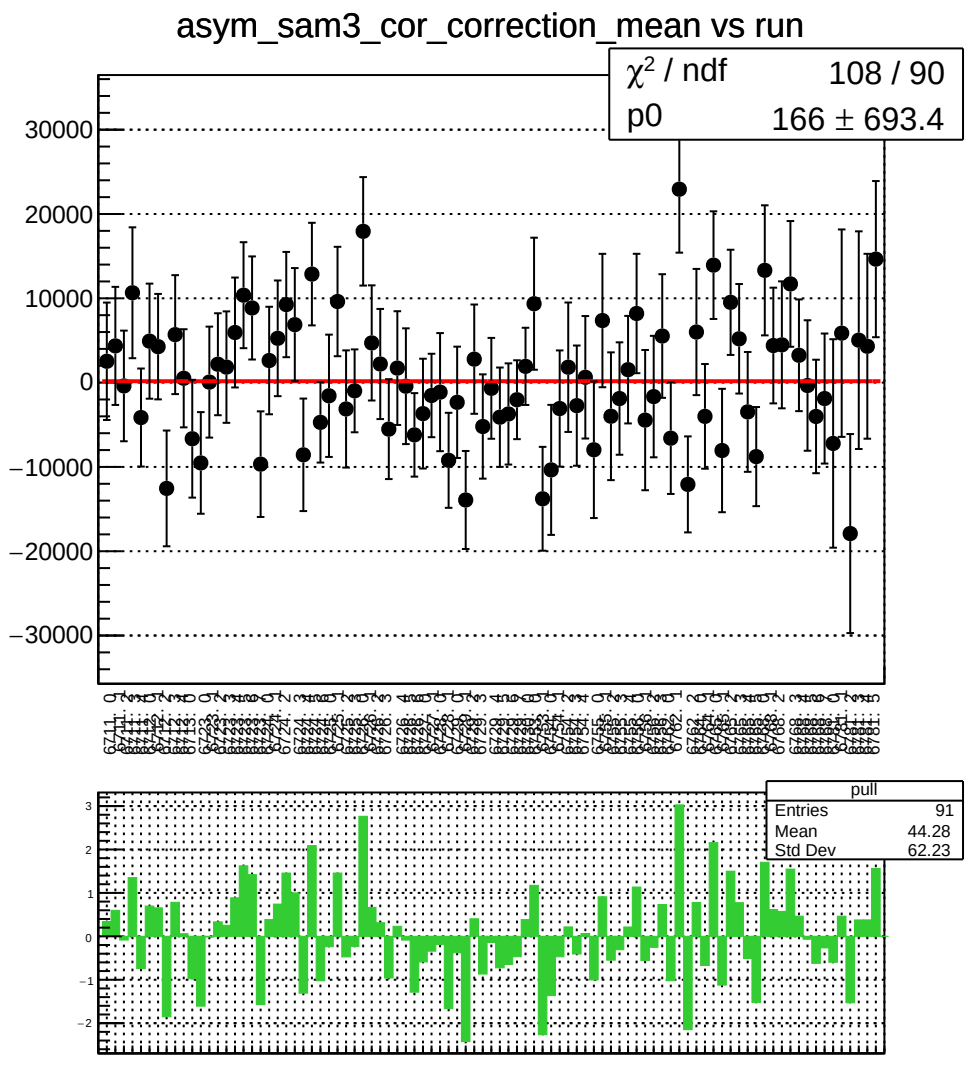

pull1D
Entries 91
Mean 0.03432
Std Dev 1.089

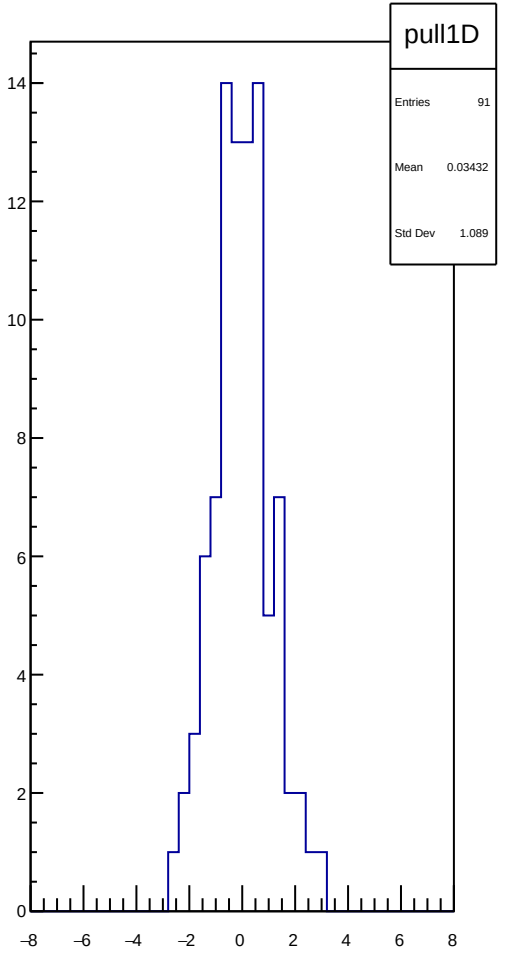

asym_sam3_reg_correction_rms vs run
χ² / ndf 3.92e+04 / 90
p0 651.4 ± 0.4903
1300
1200
1100
1000
900
800
700
600
500

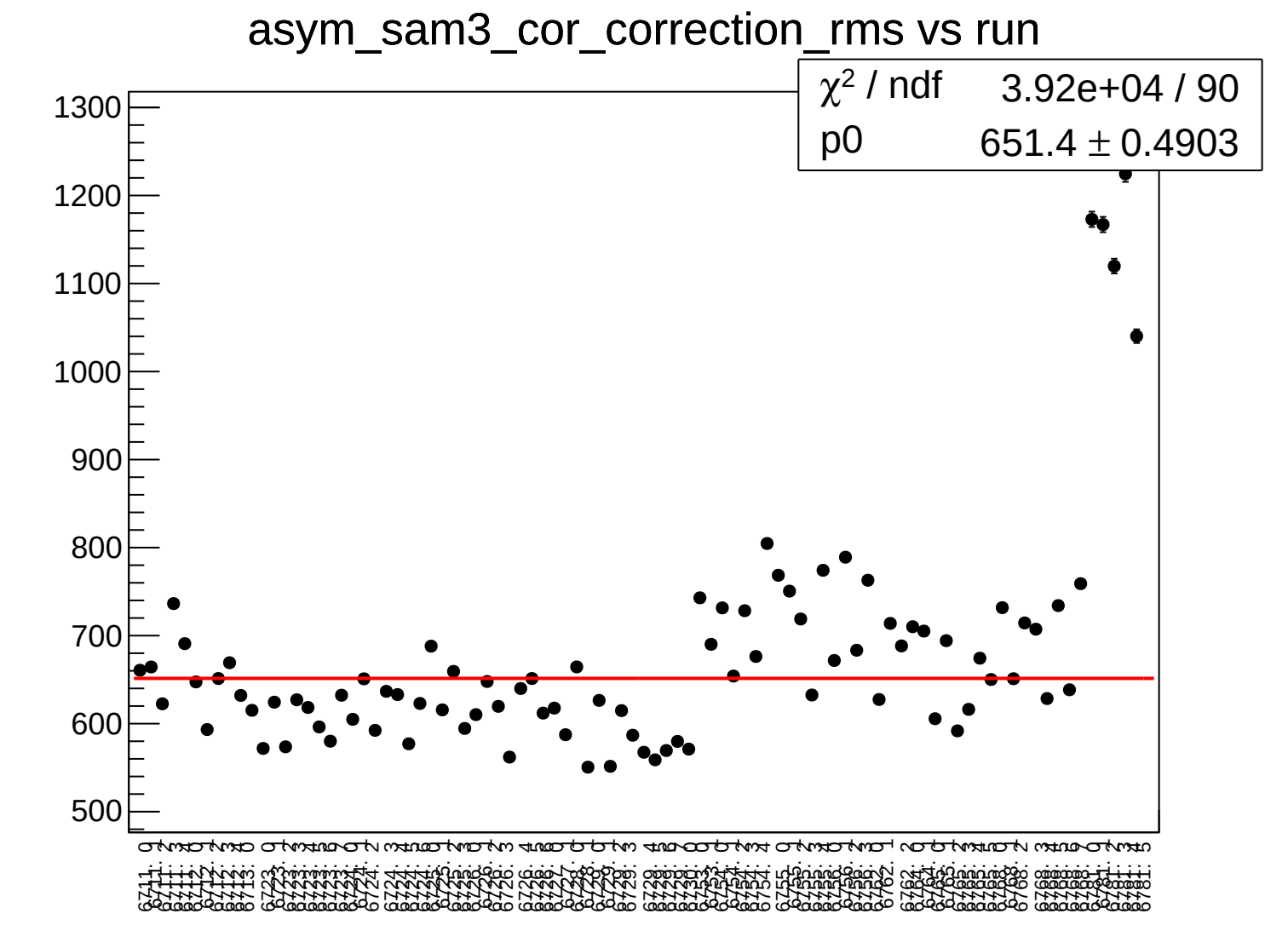

cor_asym_sam3_mean vs run
χ² / ndf 84.59 / 90
p0 −80.9 ± 94.24
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −34.97
Std Dev 0
3
2
1
0
−1
−2
−3

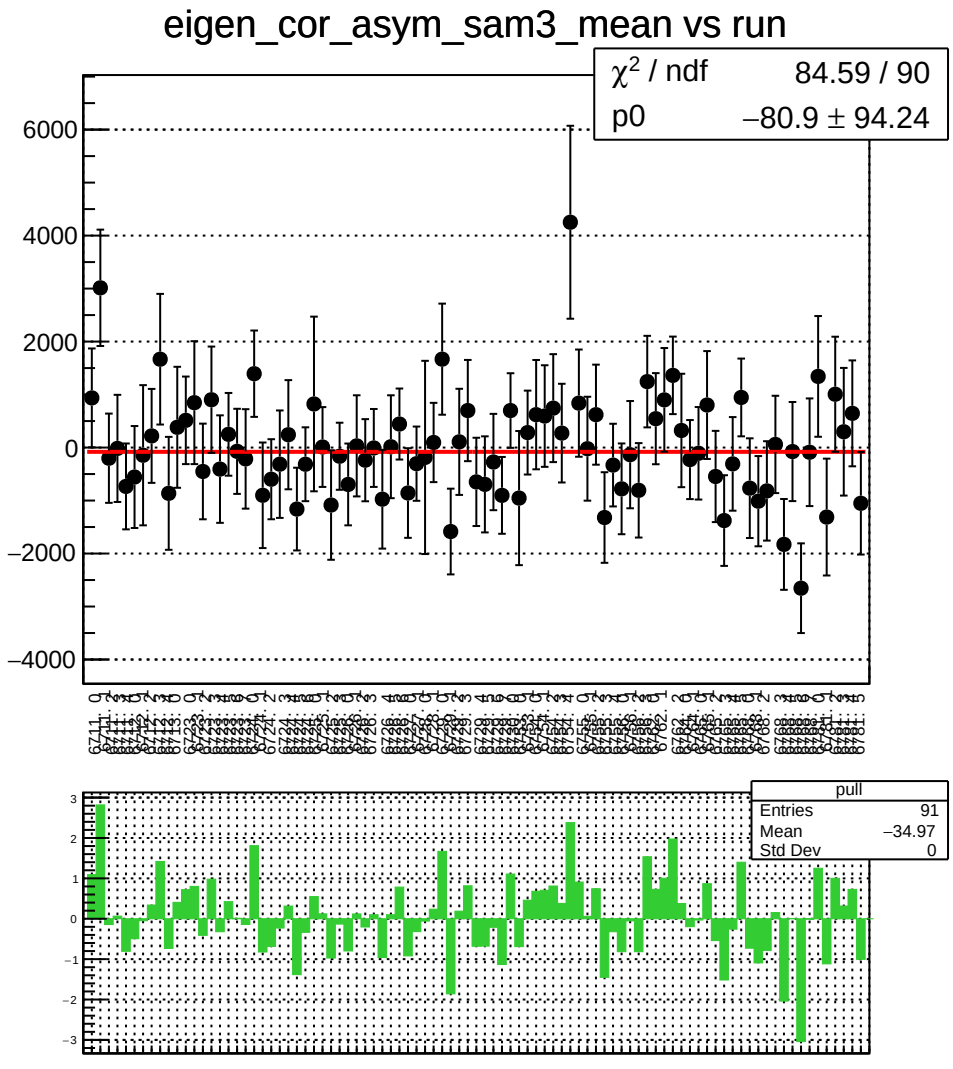

pull1D
Entries 91
Mean 0.03813
Std Dev 0.9634
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

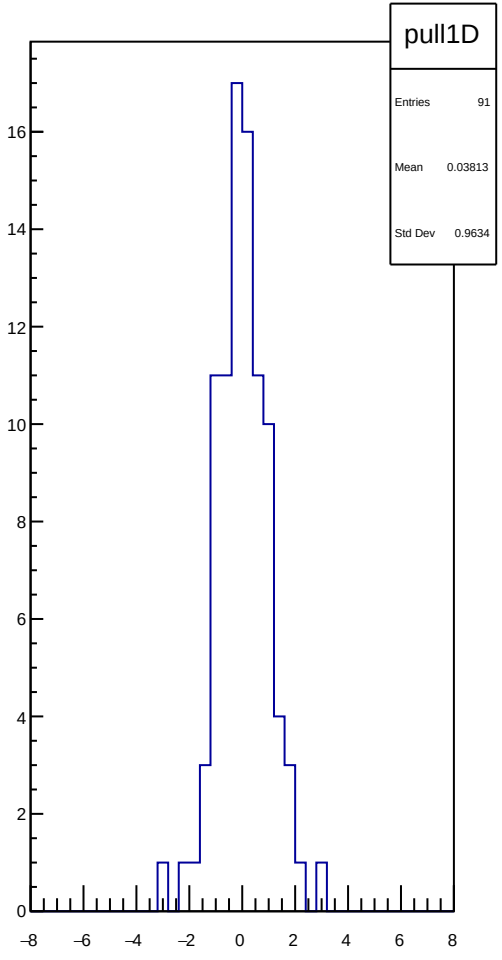

cor_asym_sam3_rms vs run
χ^2 / ndf 4.28e+04 / 90
p0 88.44 ± 0.06664
200
180
160
140
120
100
80
60

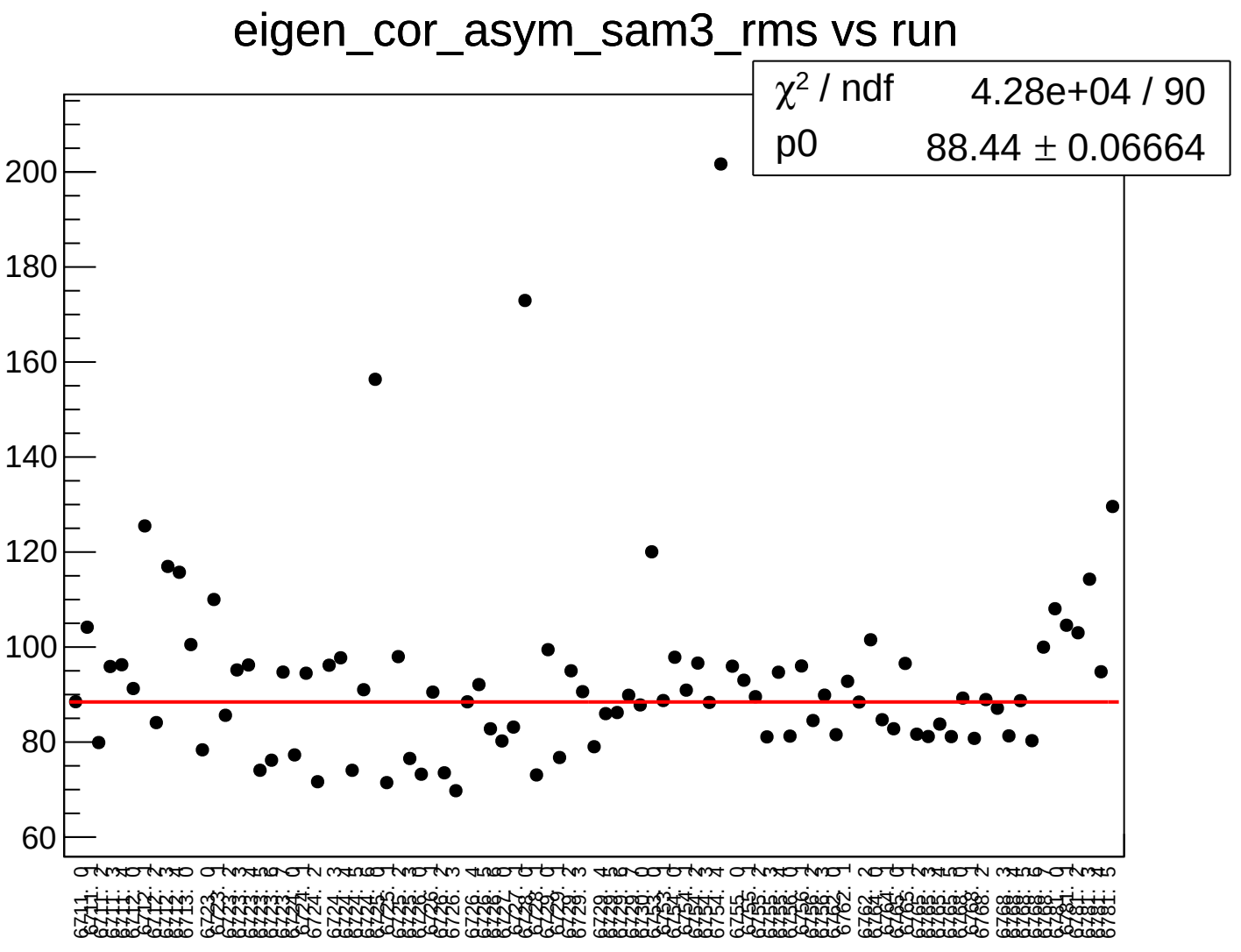

asym_sam3_cor_correction_mean vs run
χ² / ndf 108 / 90
p0 166 ± 693.4
pull
Entries 91
Mean 44.28
Std Dev 62.23

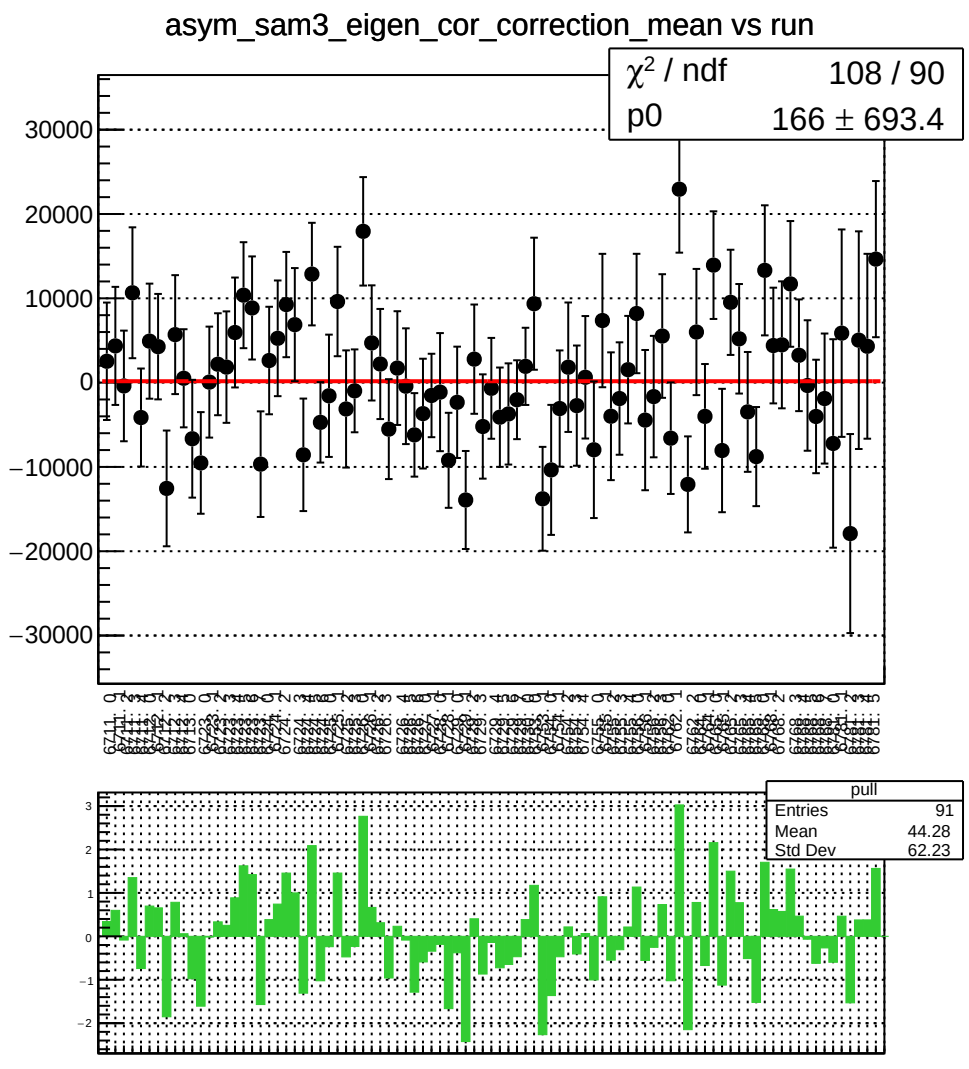

pull1D
Entries 91
Mean 0.03432
Std Dev 1.089

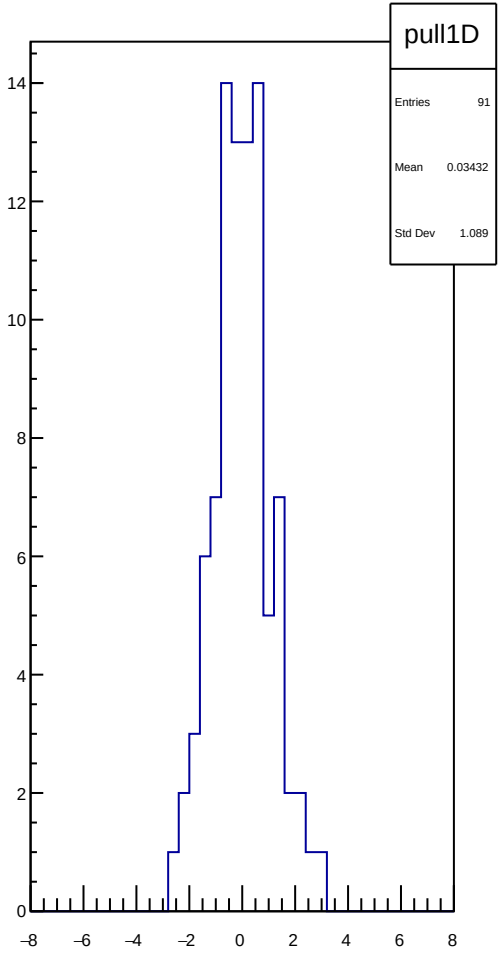

asym_sam3_cor_correction_rms vs run
χ² / ndf 3.92e+04 / 90
p0 651.4 ± 0.4903
1300
1200
1100
1000
900
800
700
600
500

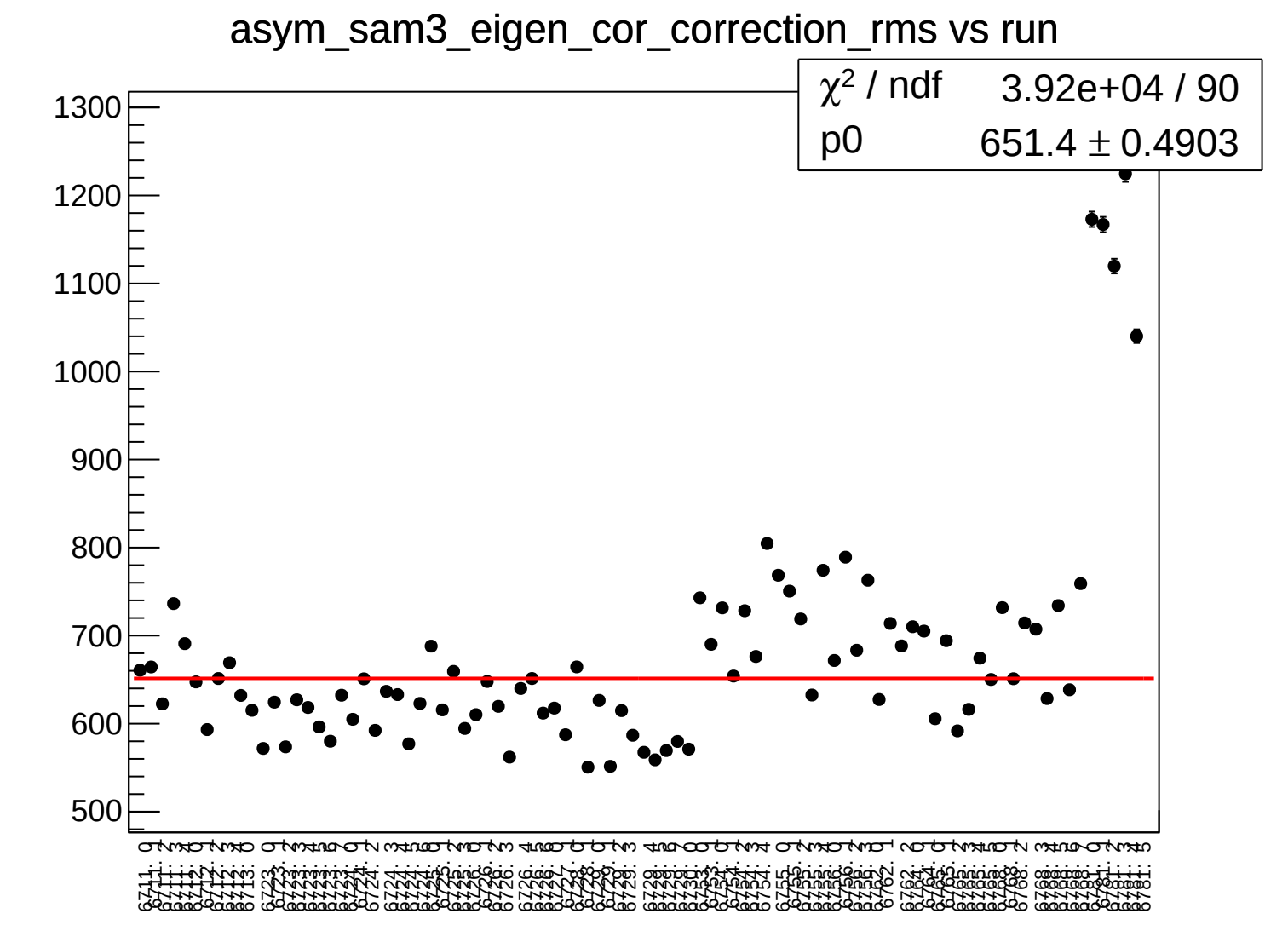

eigen_cor_asym_sam3_mean vs run
χ² / ndf 84.59 / 90
p0 −80.9 ± 94.24
pull
Entries 91
Mean −34.97
Std Dev 0

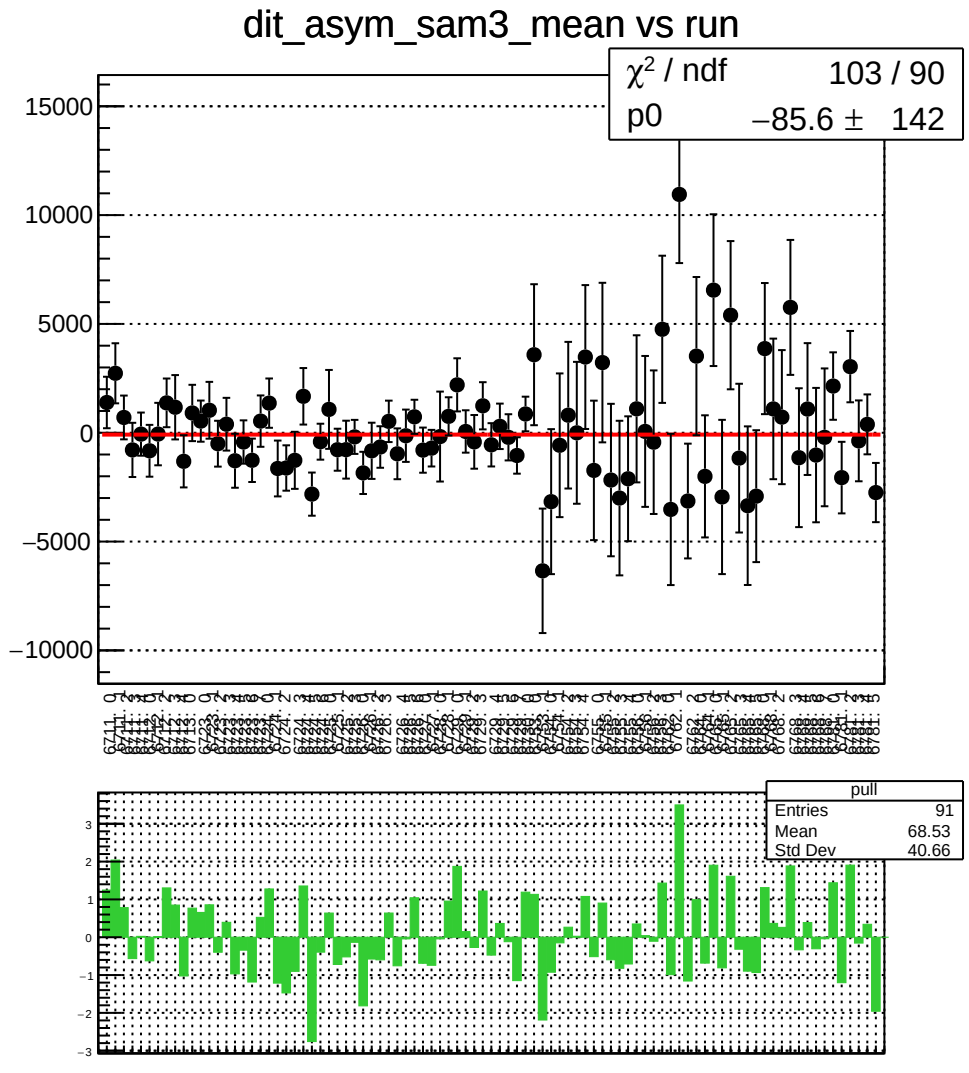

pull1D
Entries 91
Mean 0.03813
Std Dev 0.9634

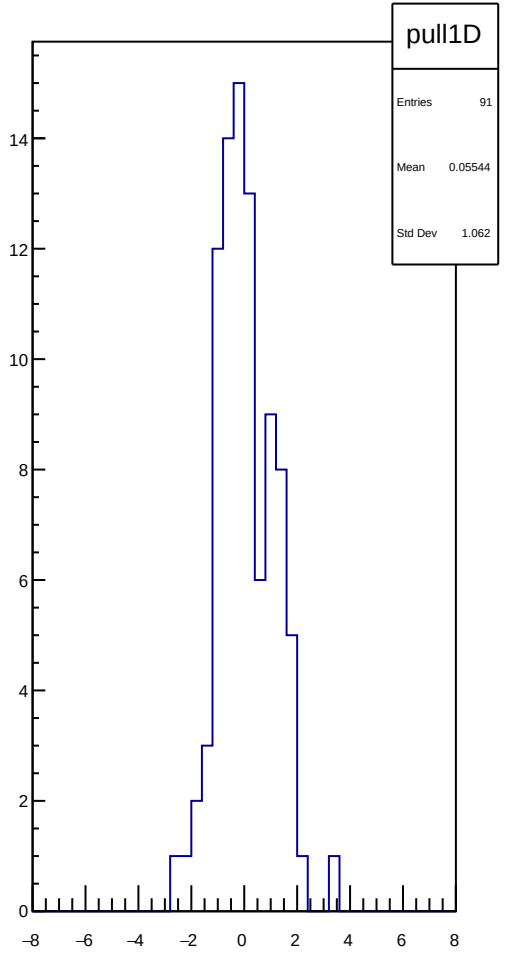

eigen_cor_asym_sam3_rms vs run
χ² / ndf 4.28e+04 / 90
p0 88.44 ± 0.06664
200
180
160
140
120
100
80
60

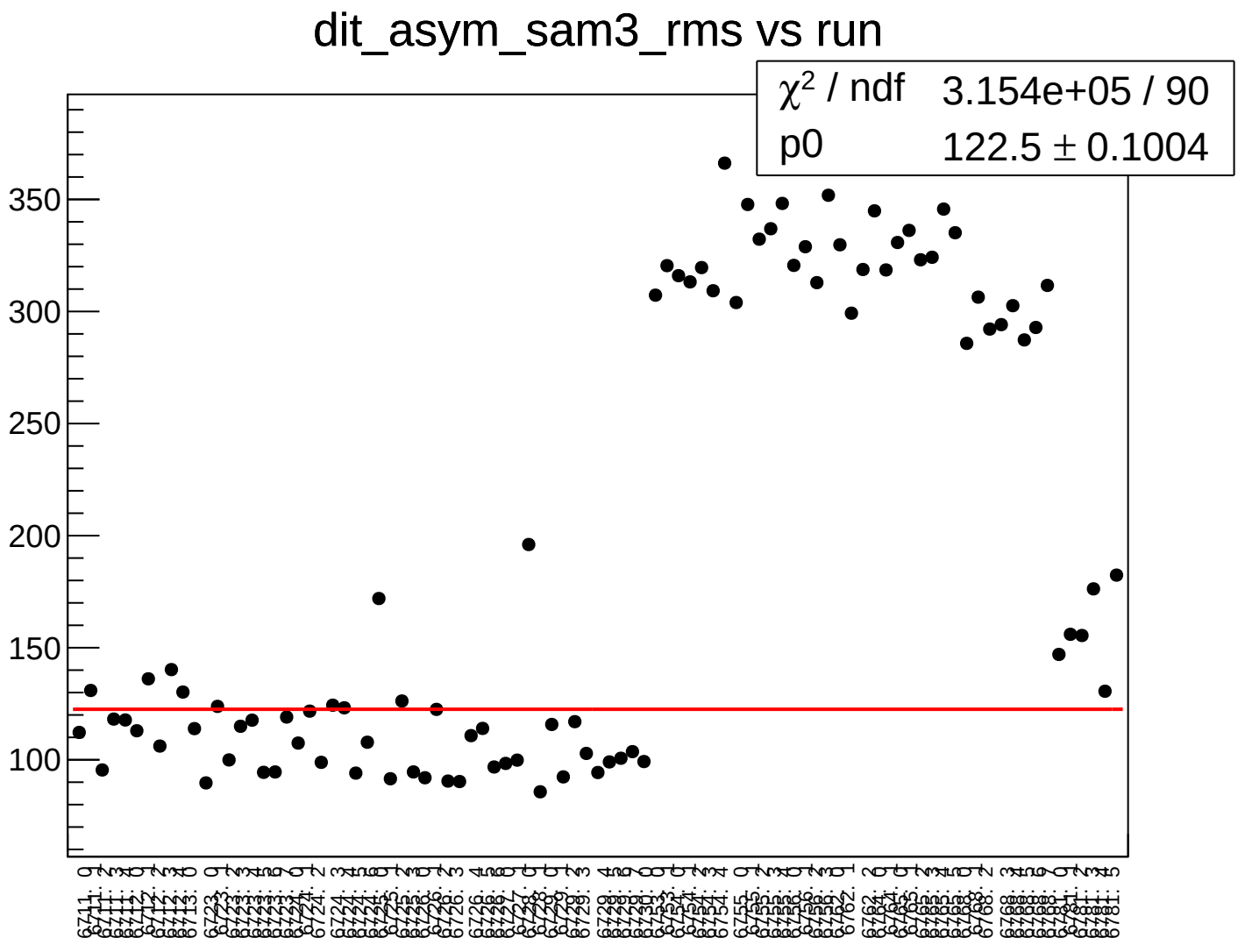

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 108 / 90
p0 166 ± 693.4
pull
Entries 91
Mean 44.28
Std Dev 62.23

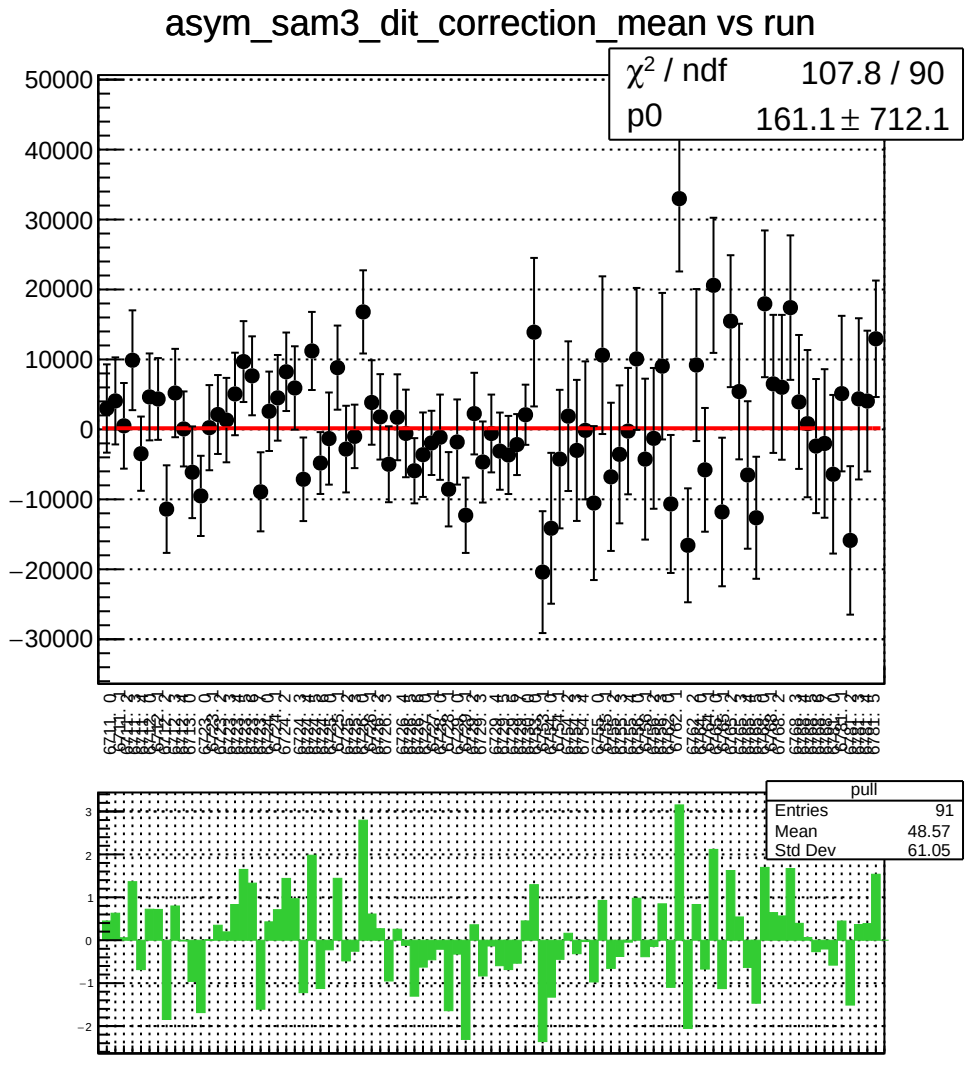

pull1D
Entries 91
Mean 0.03432
Std Dev 1.089

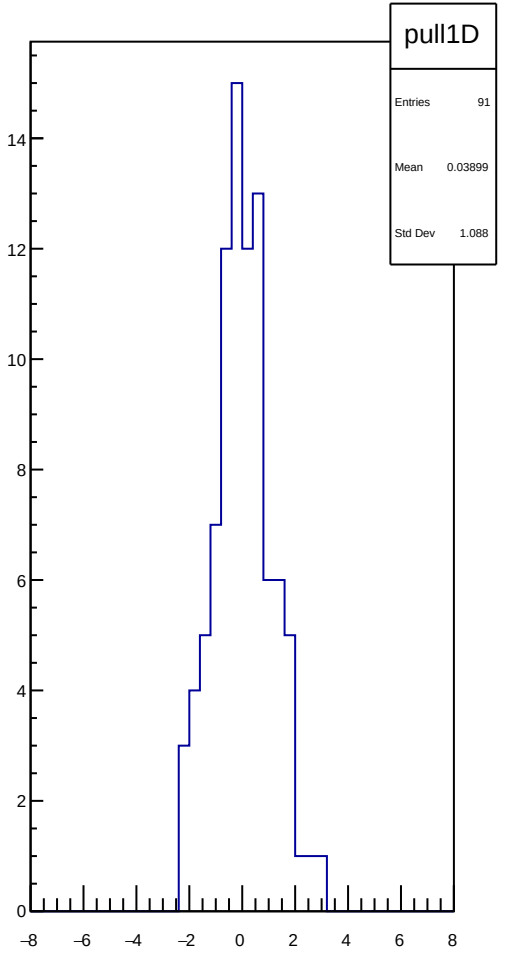

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 3.92e+04 / 90
p0 651.4 ± 0.4903
1300
1200
1100
1000
900
800
700
600
500

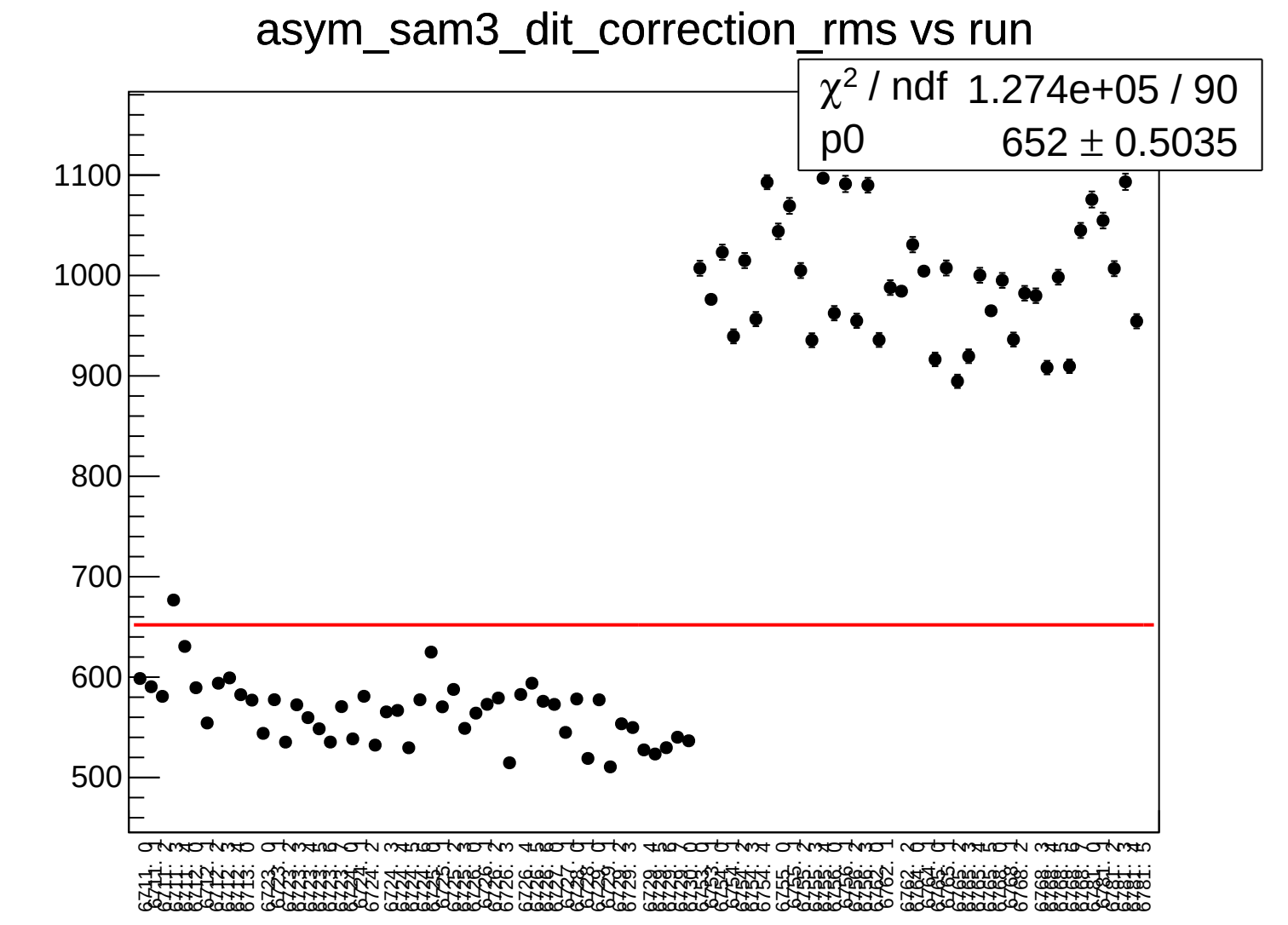

dit_asym_sam3_mean vs run
χ² / ndf 103 / 90
p0 −85.6 ± 142
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 68.53
Std Dev 40.66
3
2
1
0
−1
−2
−3

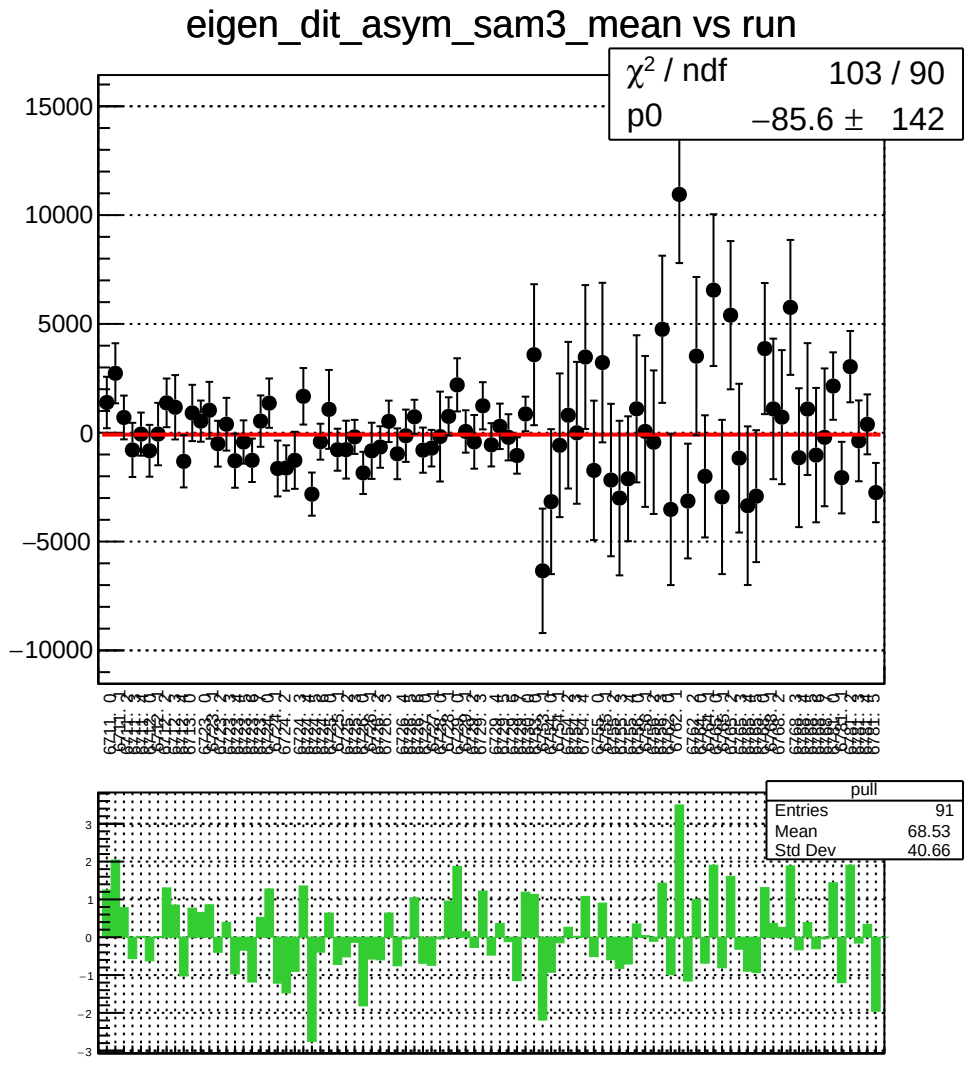

pull1D
Entries 91
Mean 0.05544
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

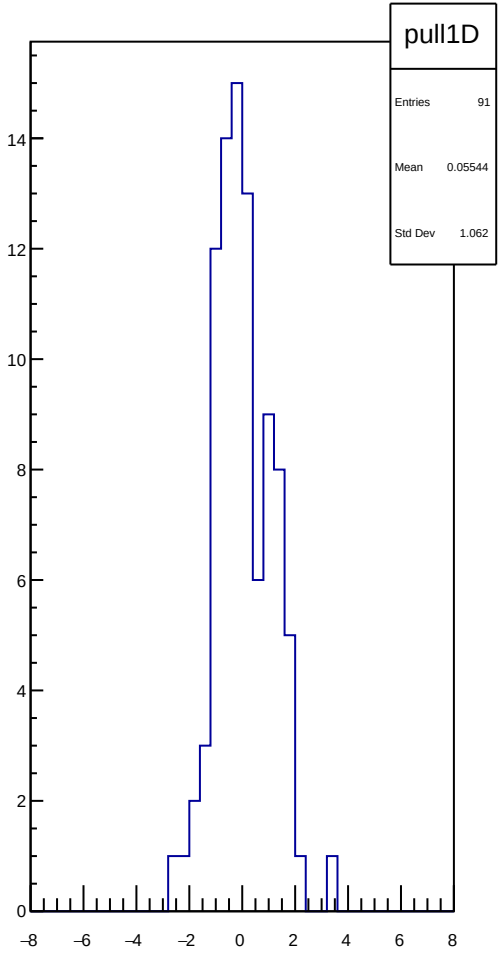

dit_asym_sam3_rms vs run
χ^2 / ndf 3.154e+05 / 90
p0 122.5 ± 0.1004
350
300
250
200
150
100

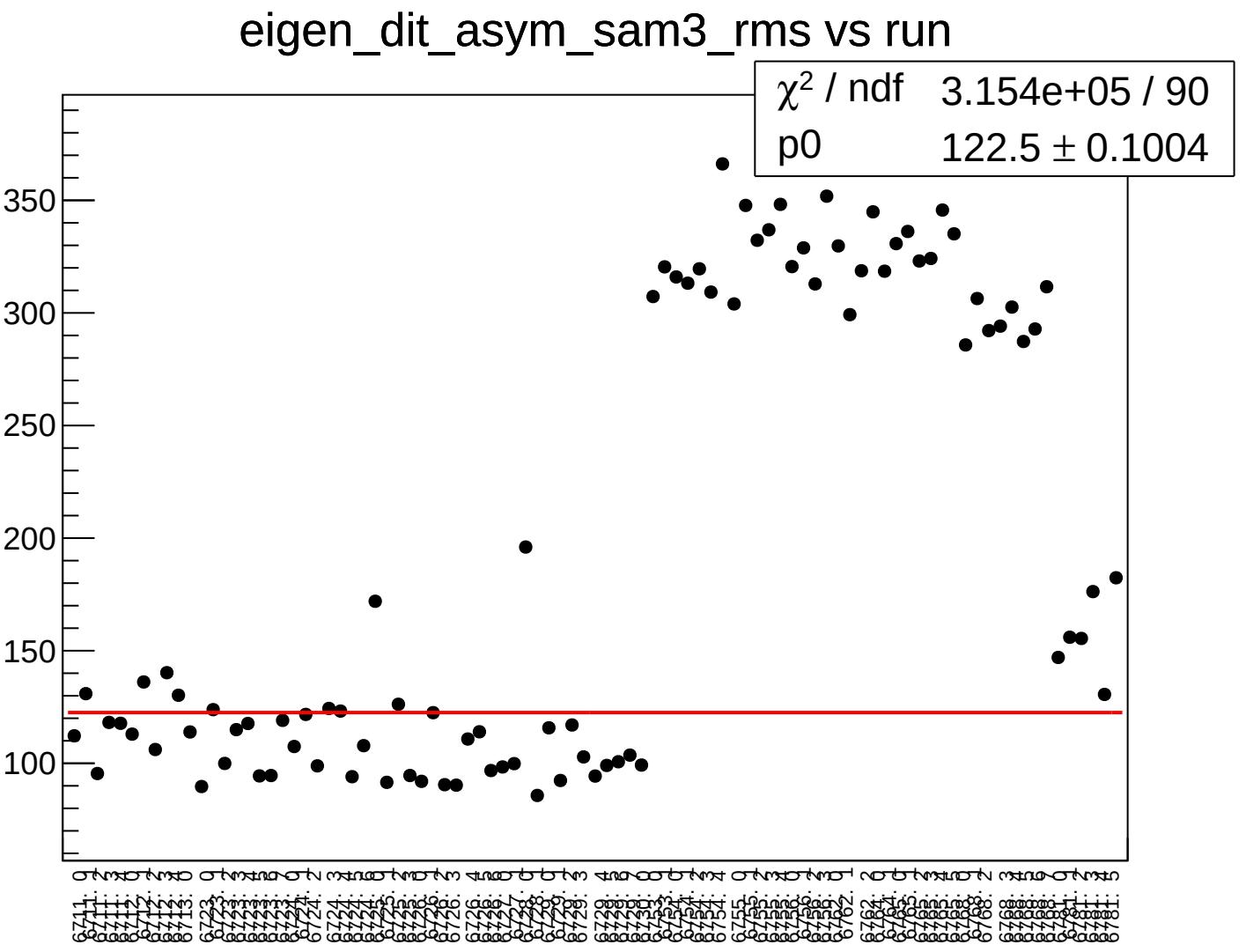

asym_sam3_dit_correction_mean vs run
χ² / ndf 107.8 / 90
p0 161.1 ± 712.1
pull
Entries 91
Mean 48.57
Std Dev 61.05

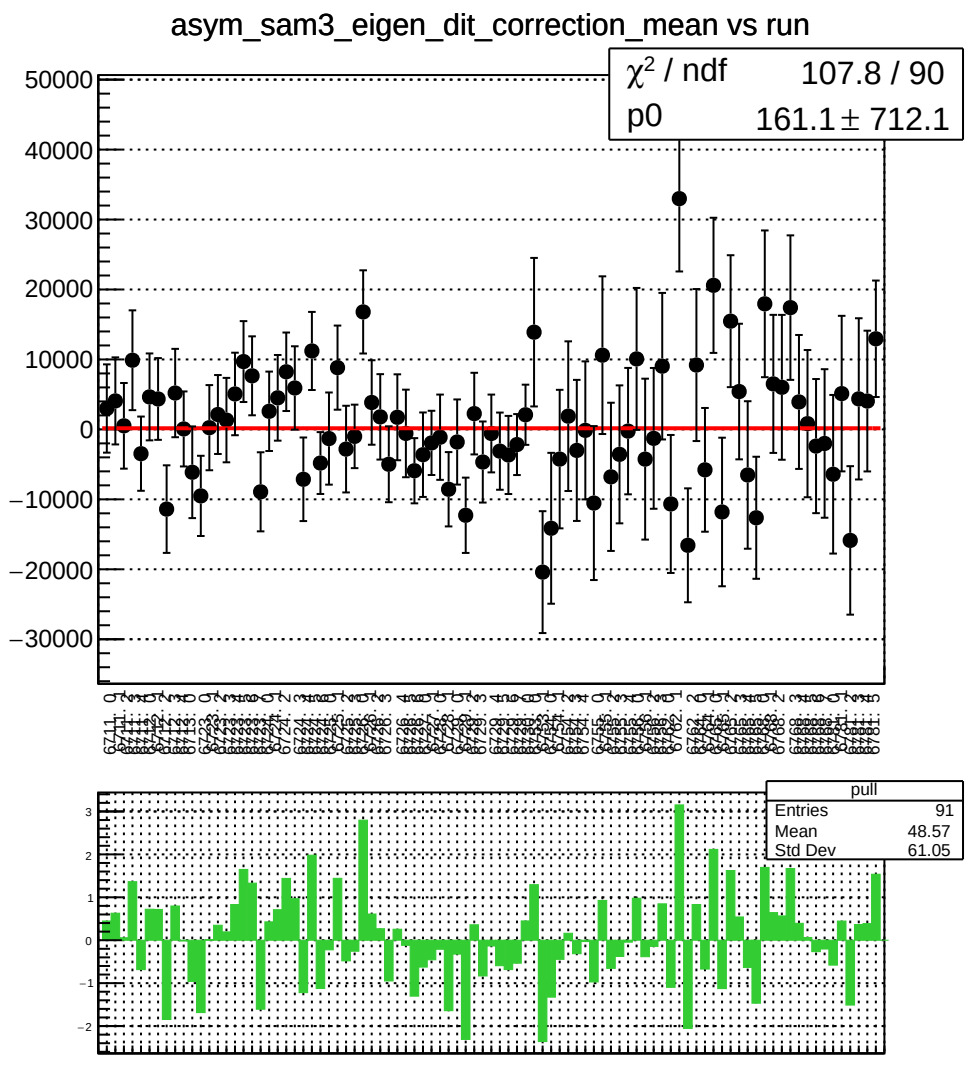

pull1D
Entries 91
Mean 0.03899
Std Dev 1.088

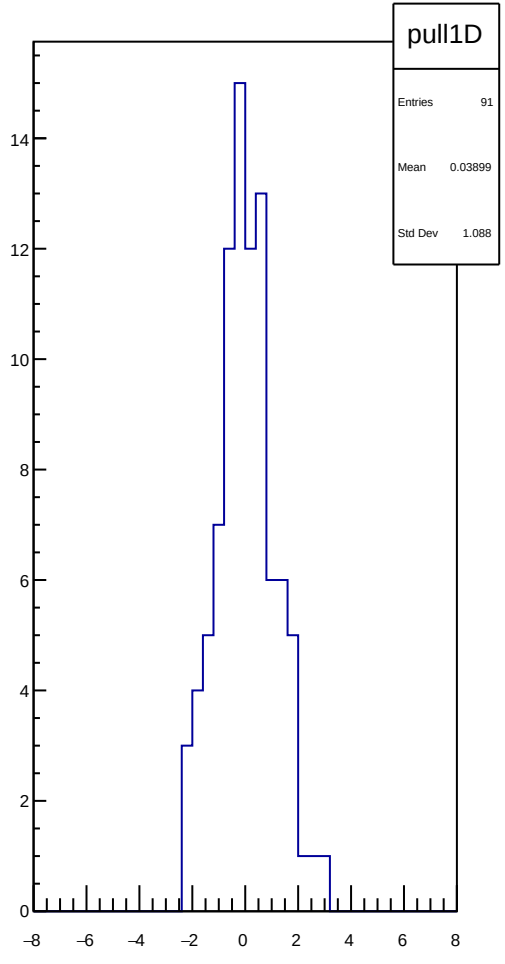

asym_sam3_dit_correction_rms vs run
χ^2 / ndf 1.274e+05 / 90
p0 652 ± 0.5035
1100
1000
900
800
700
600
500

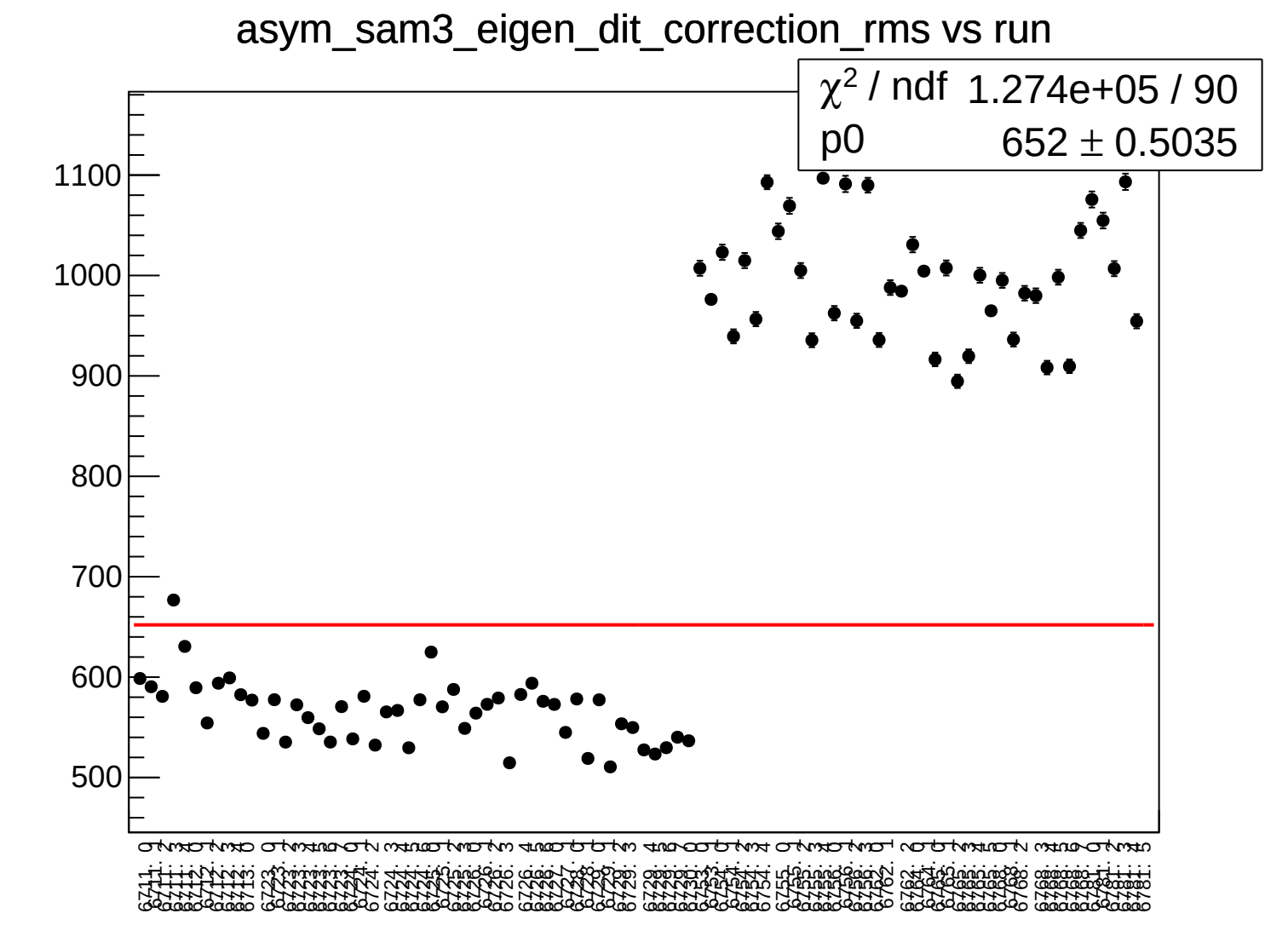

eigen_dit_asym_sam3_mean vs run
χ² / ndf 103 / 90
p0 −85.6 ± 142
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 68.53
Std Dev 40.66
3
2
1
0
−1
−2
−3

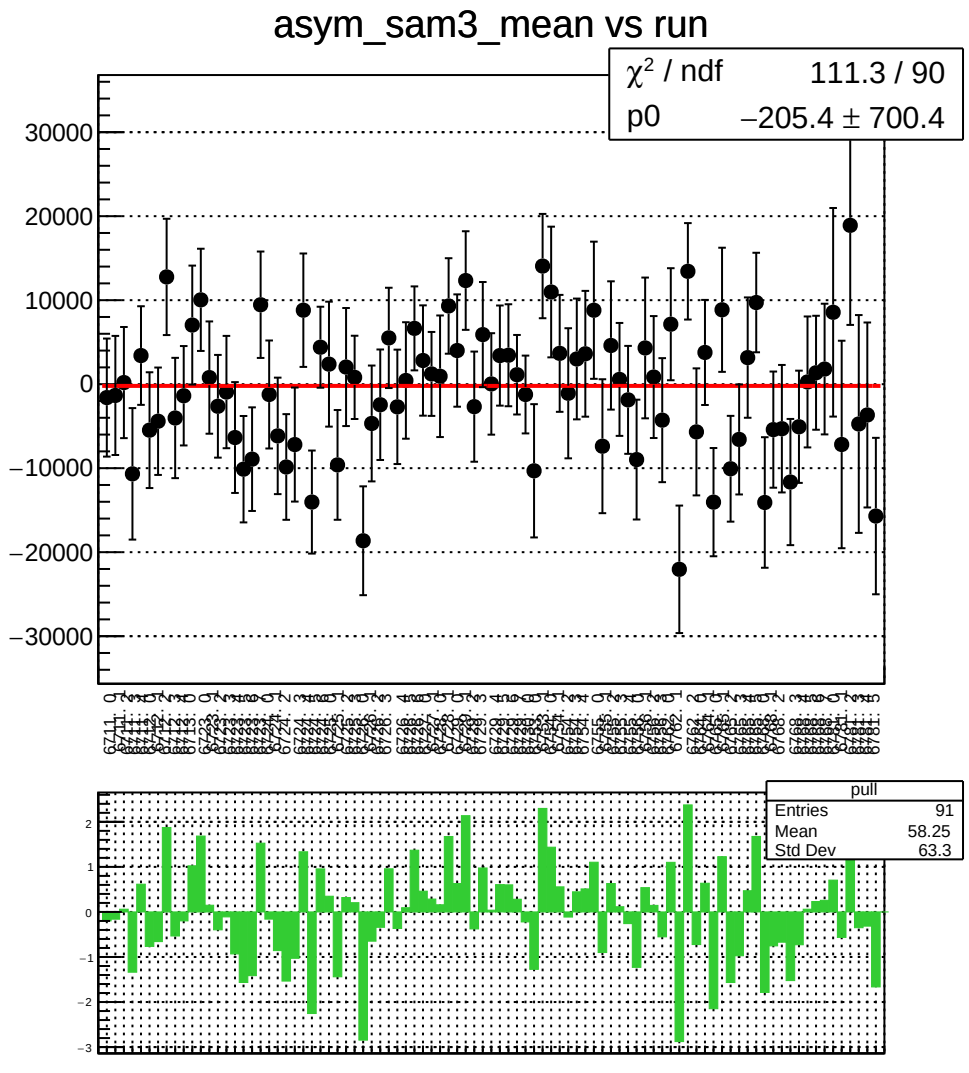

pull1D
Entries 91
Mean 0.05544
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

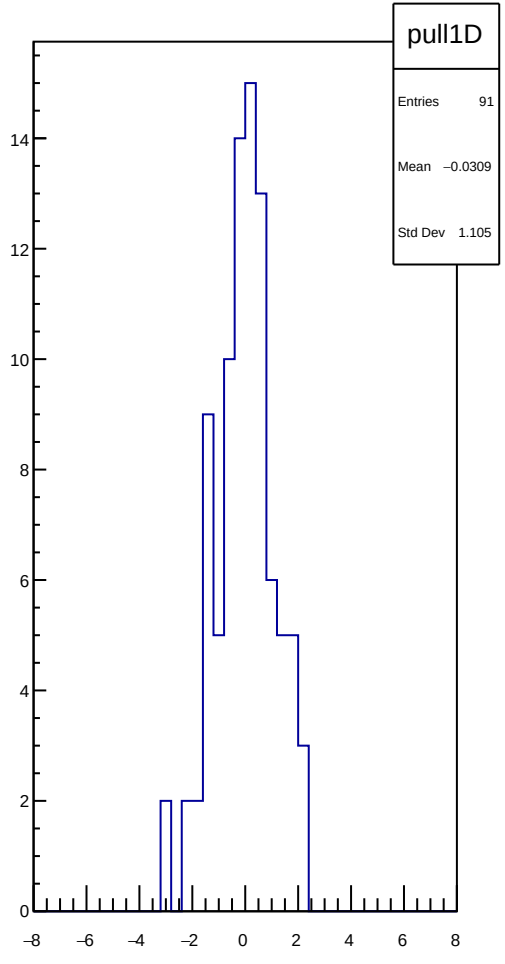

eigen_dit_asym_sam3_rms vs run
χ² / ndf 3.154e+05 / 90
p0 122.5 ± 0.1004
350
300
250
200
150
100

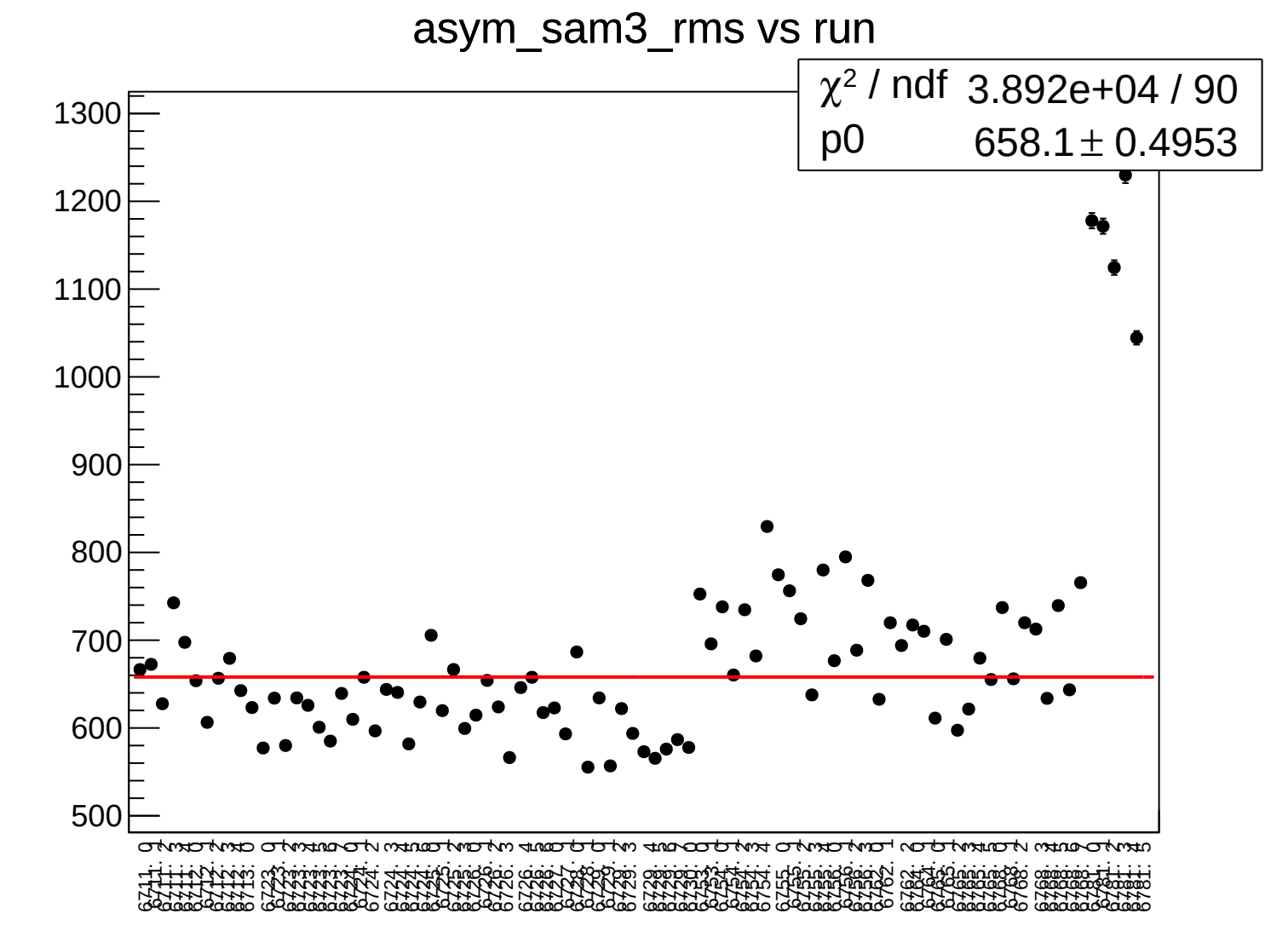

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 107.8 / 90
p0 161.1 ± 712.1
pull
Entries 91
Mean 48.57
Std Dev 61.05

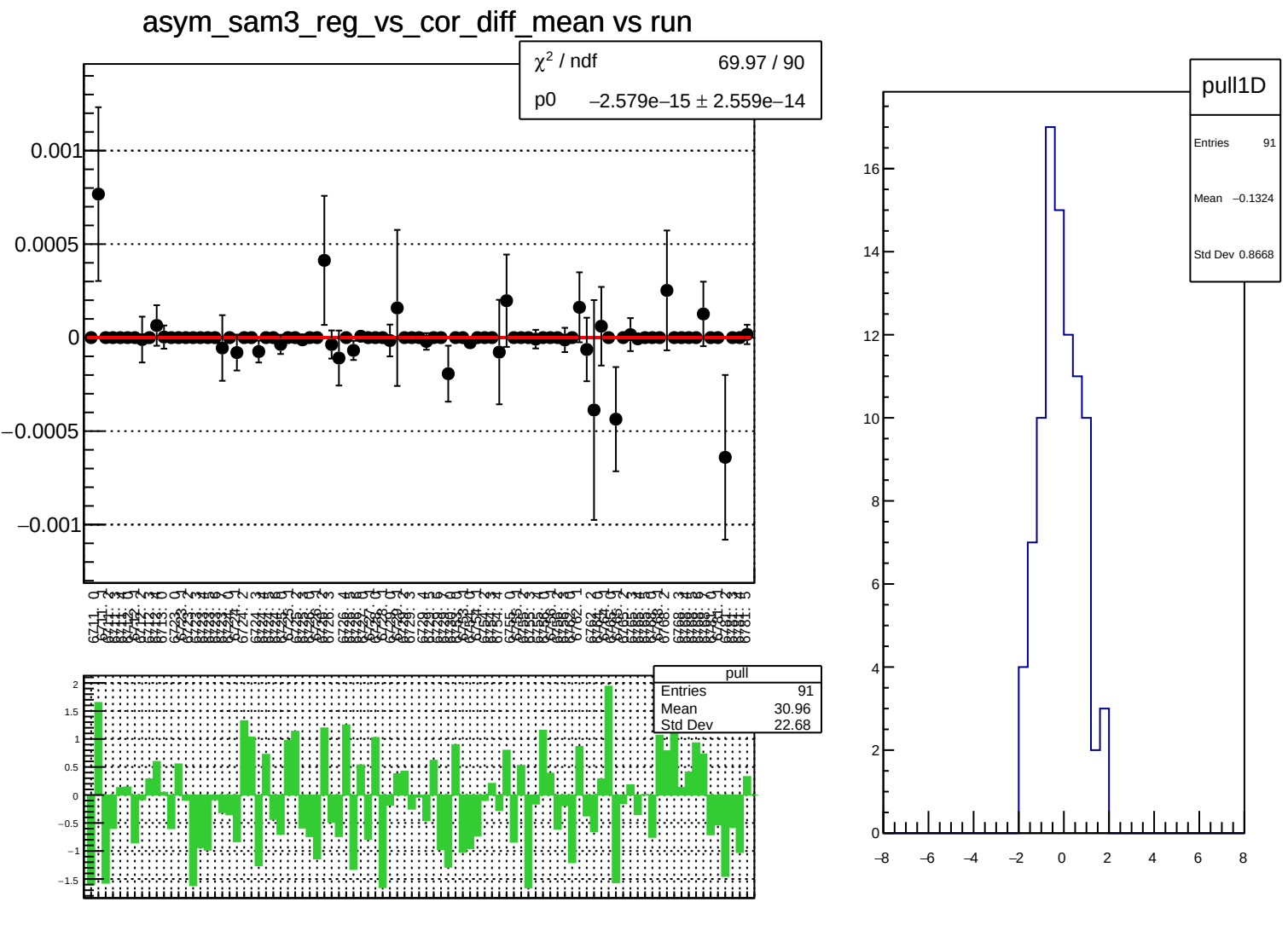

pull1D
Entries 91
Mean 0.03899
Std Dev 1.088

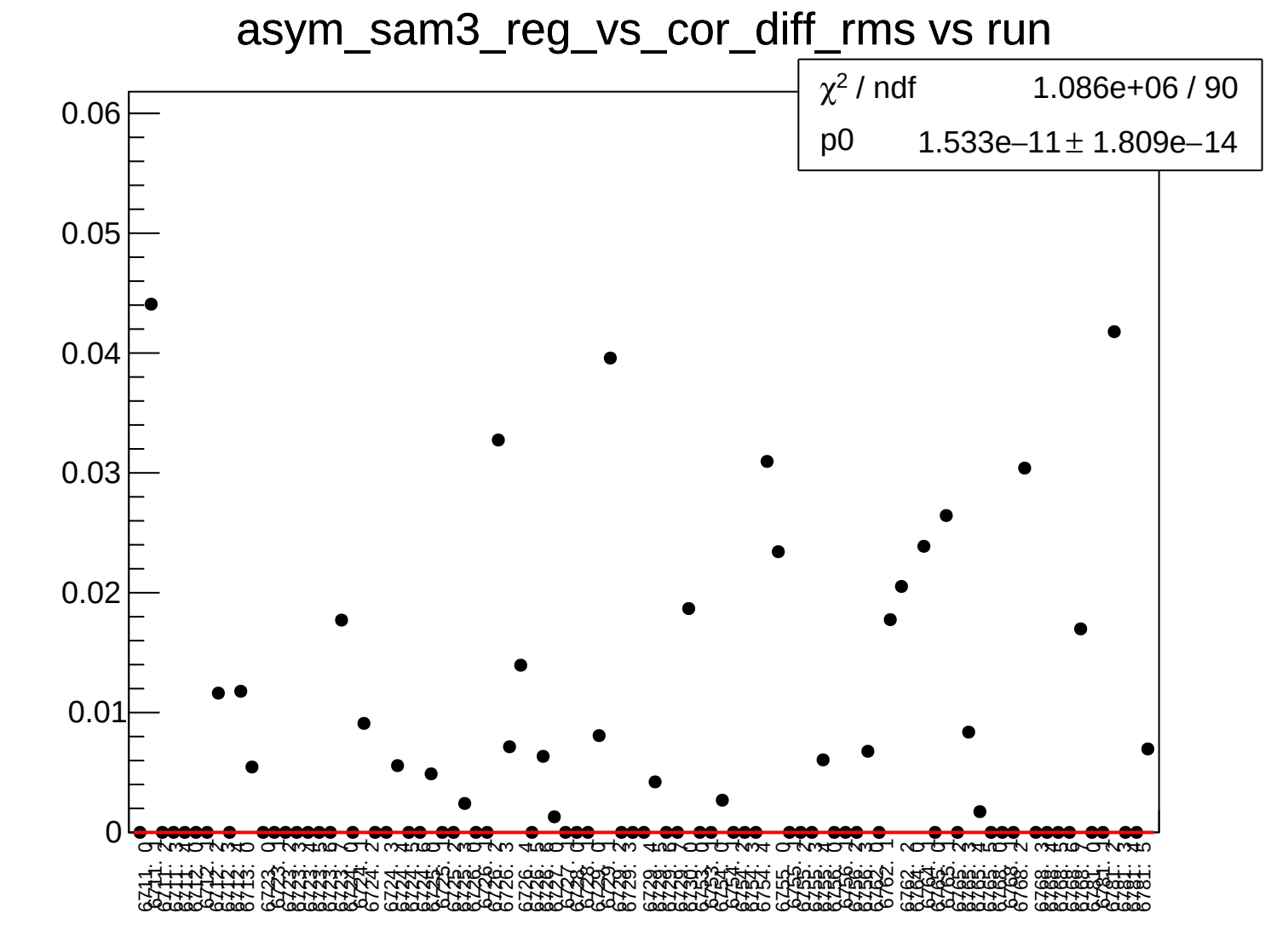

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 1.274e+05 / 90
p0 652 ± 0.5035
1100
1000
900
800
700
600
500

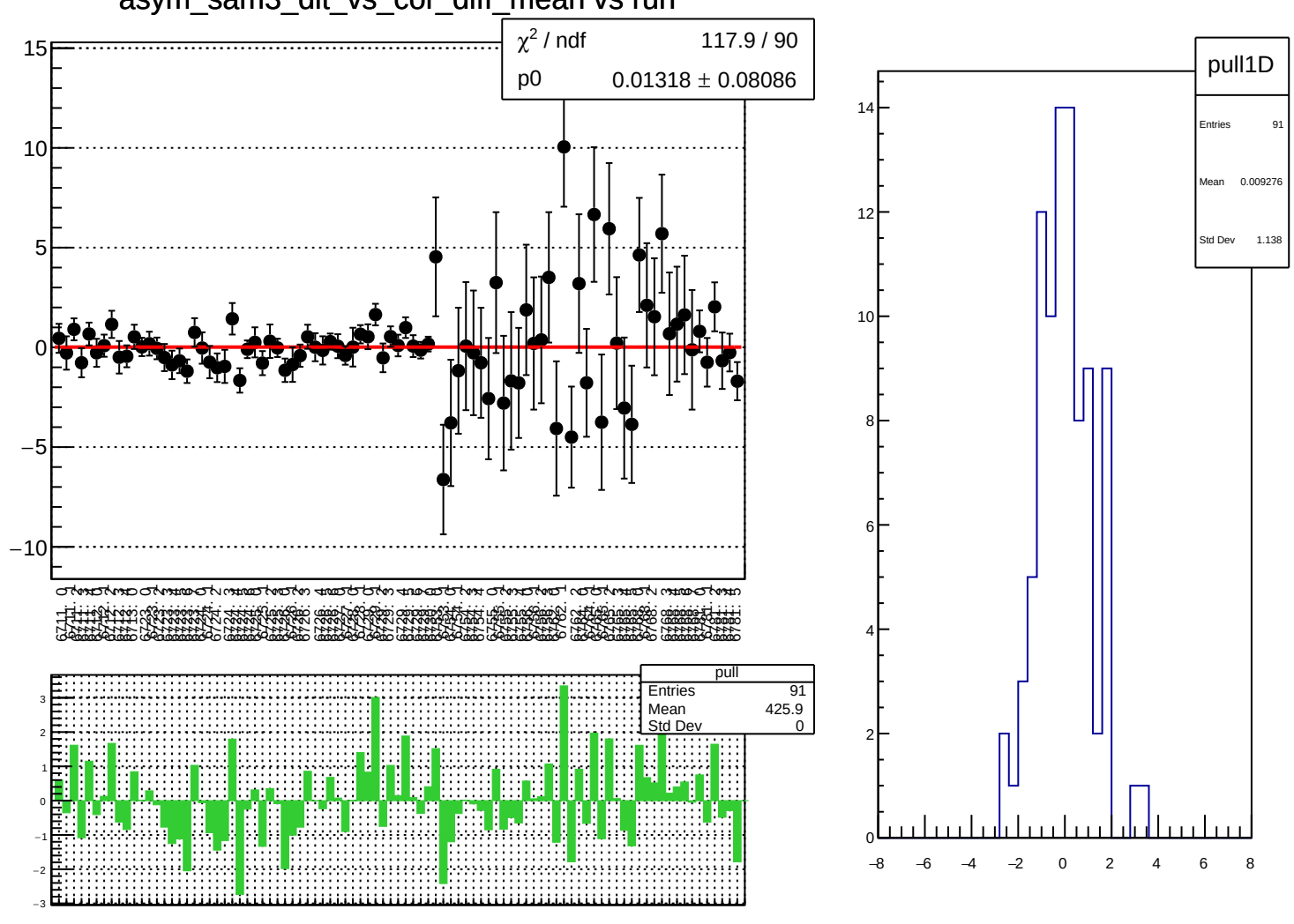

asym_sam3_mean vs run
χ² / ndf 111.3 / 90
p0 −205.4 ± 700.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 58.25
Std Dev 63.3
2
1
0
−1
−2
−3

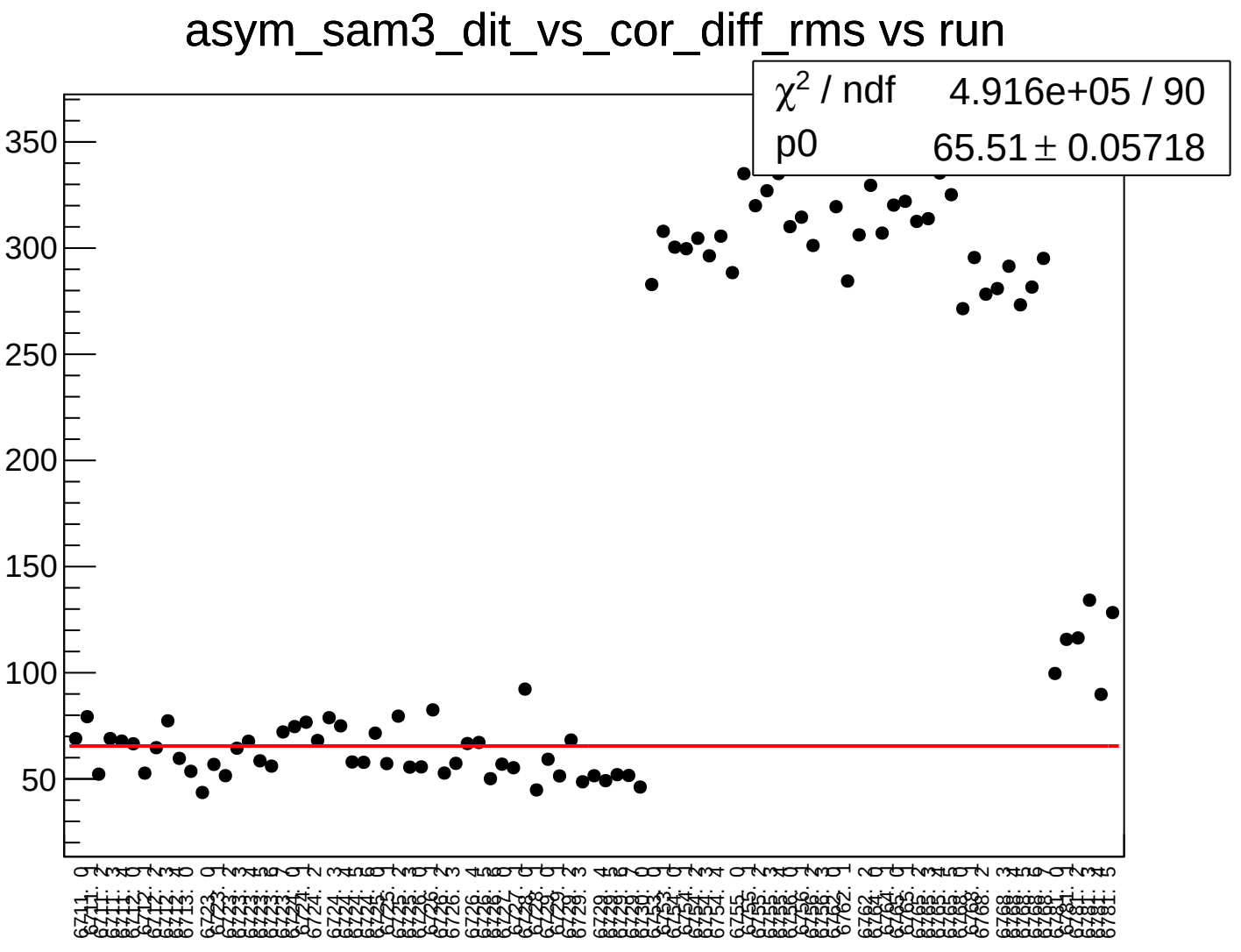

pull1D
Entries 91
Mean −0.0309
Std Dev 1.105
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

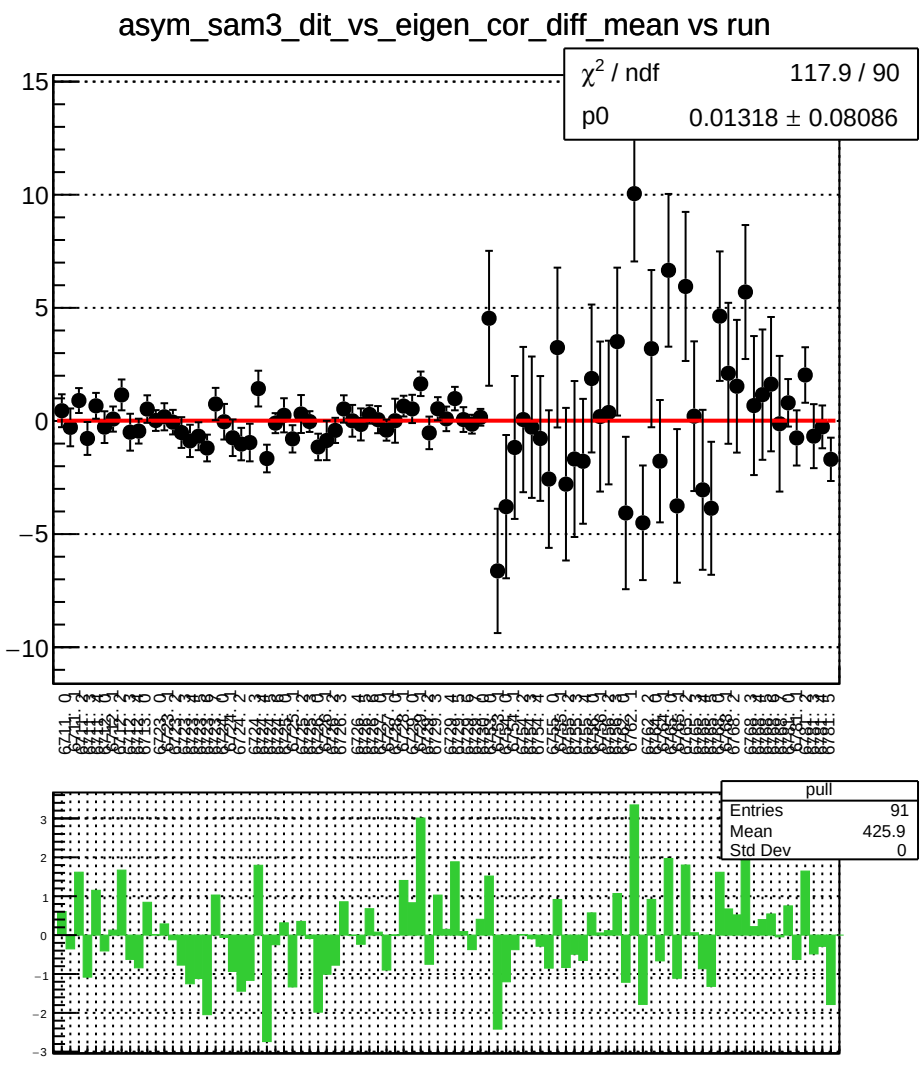

asym_sam3_rms vs run
χ² / ndf 3.892e+04 / 90
p0 658.1 ± 0.4953
1300
1200
1100
1000
900
800
700
600
500

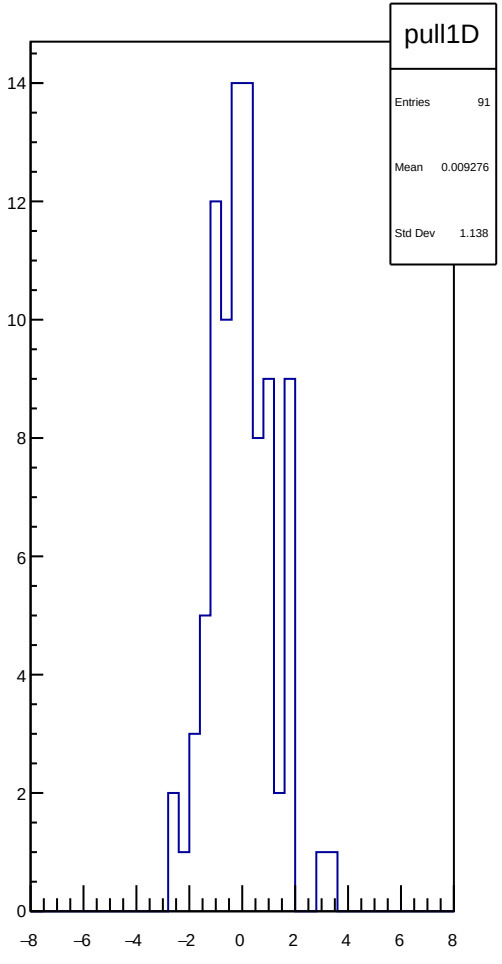

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 69.97 / 90
p0 −2.579e−15 ± 2.559e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean 30.96
Std Dev 22.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean −0.1324
Std Dev 0.8668
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

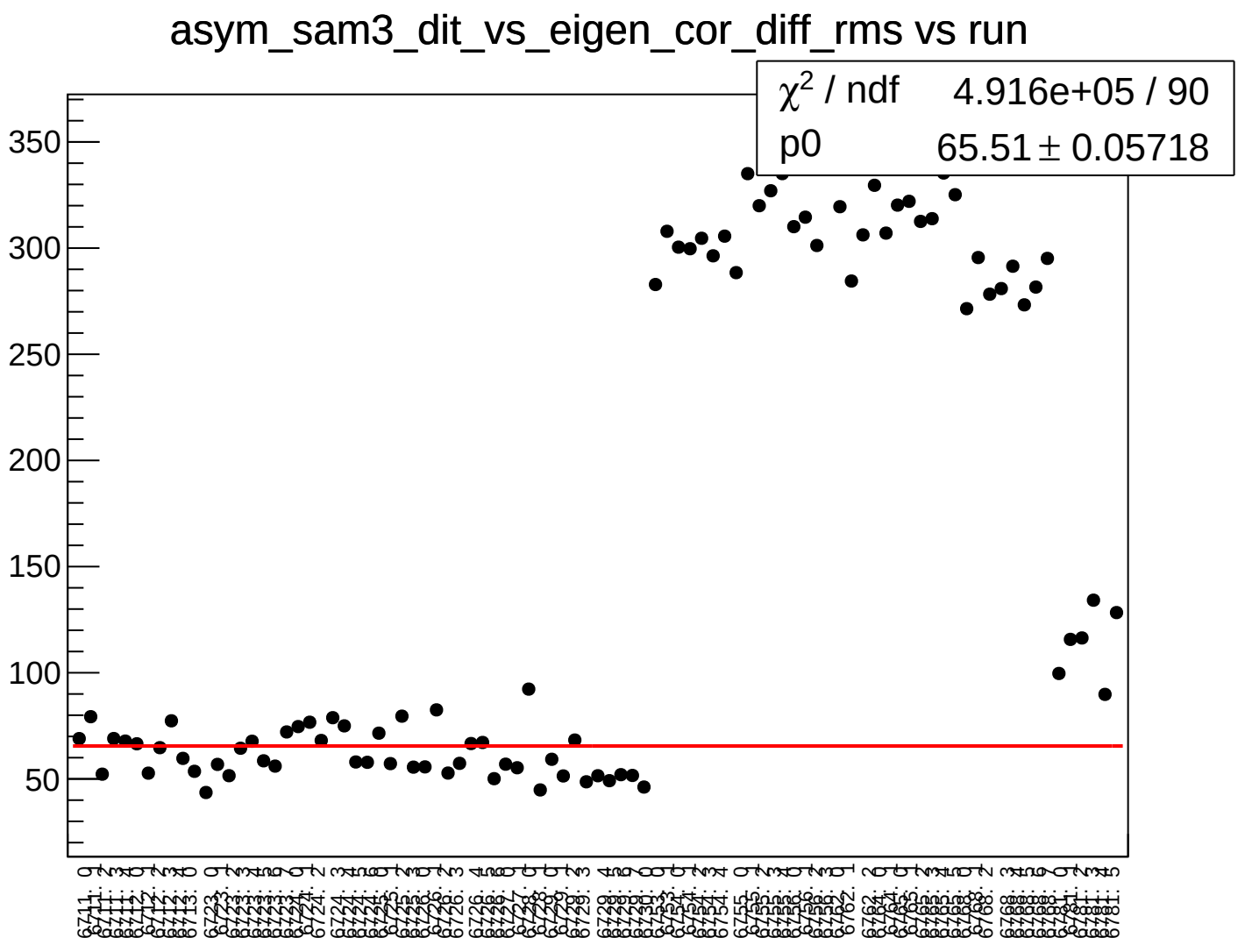

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.086e+06 / 90
p0 1.533e−11 ± 1.809e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

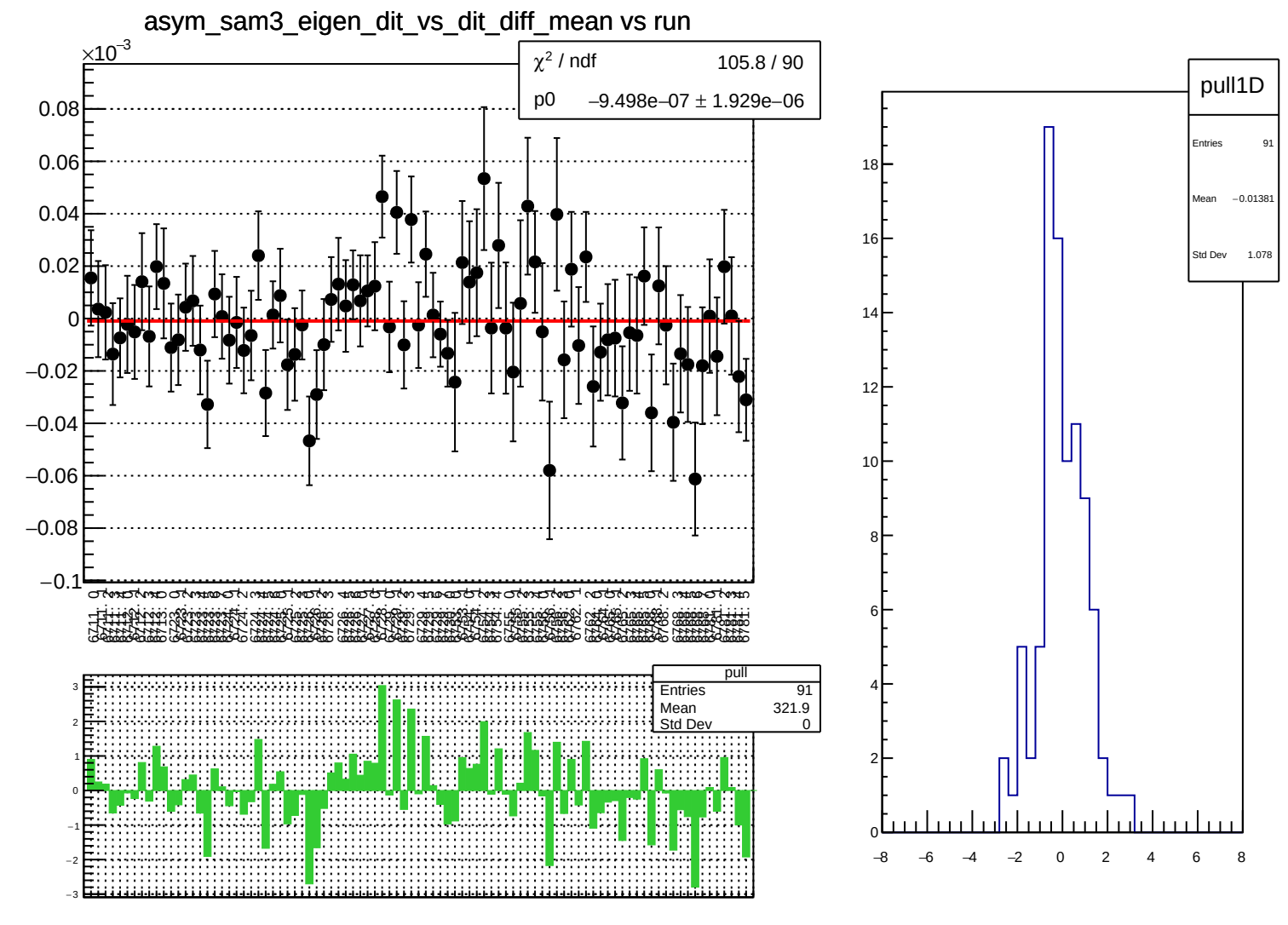

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 117.9 / 90
p0 0.01318 ± 0.08086
pull
Entries 91
Mean 425.9
Std Dev 0
pull1D
Entries 91
Mean 0.009276
Std Dev 1.138

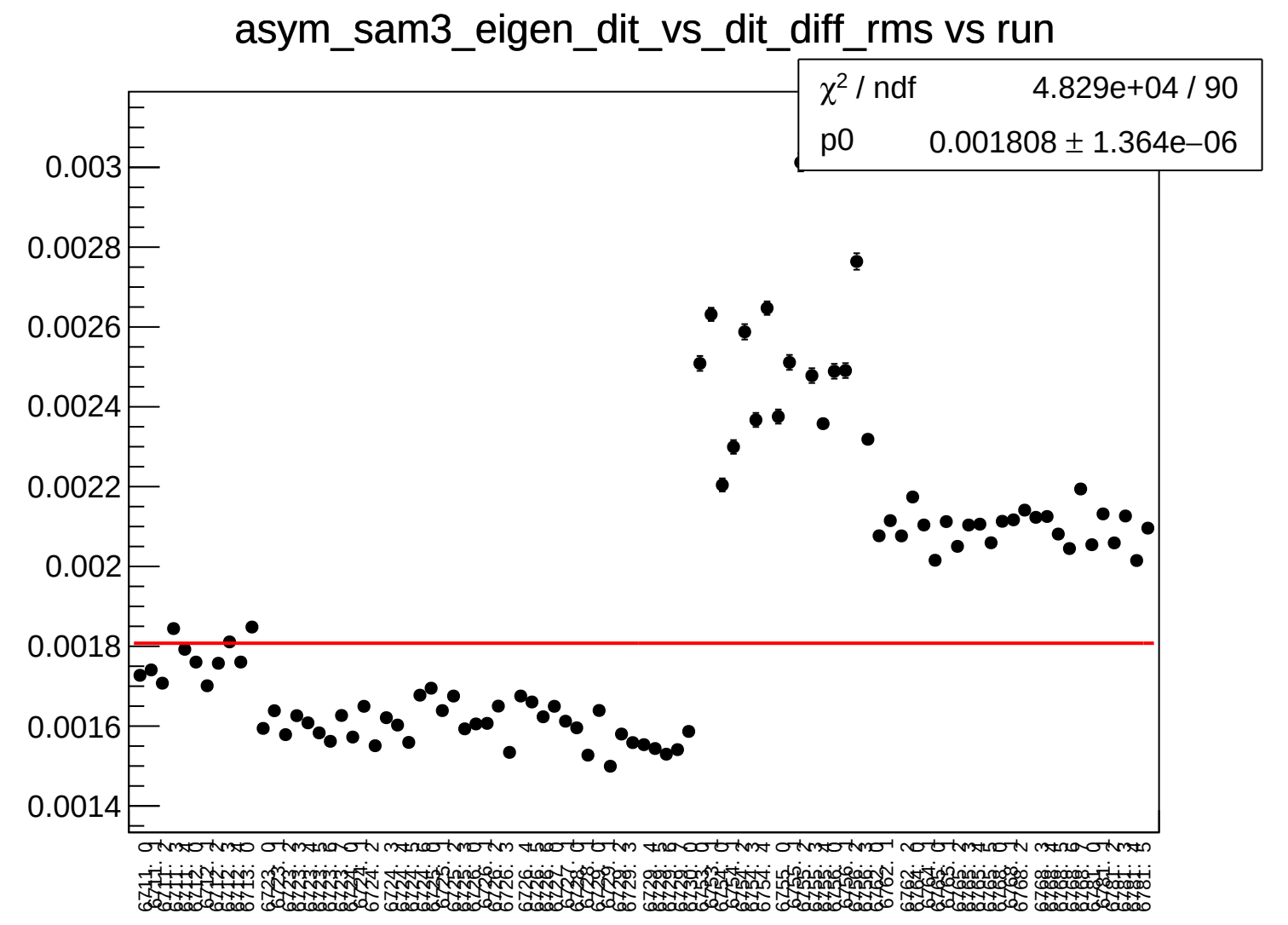

asym_sam3_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.916e+05 / 90
p0 65.51 ± 0.05718
350
300
250
200
150
100
50

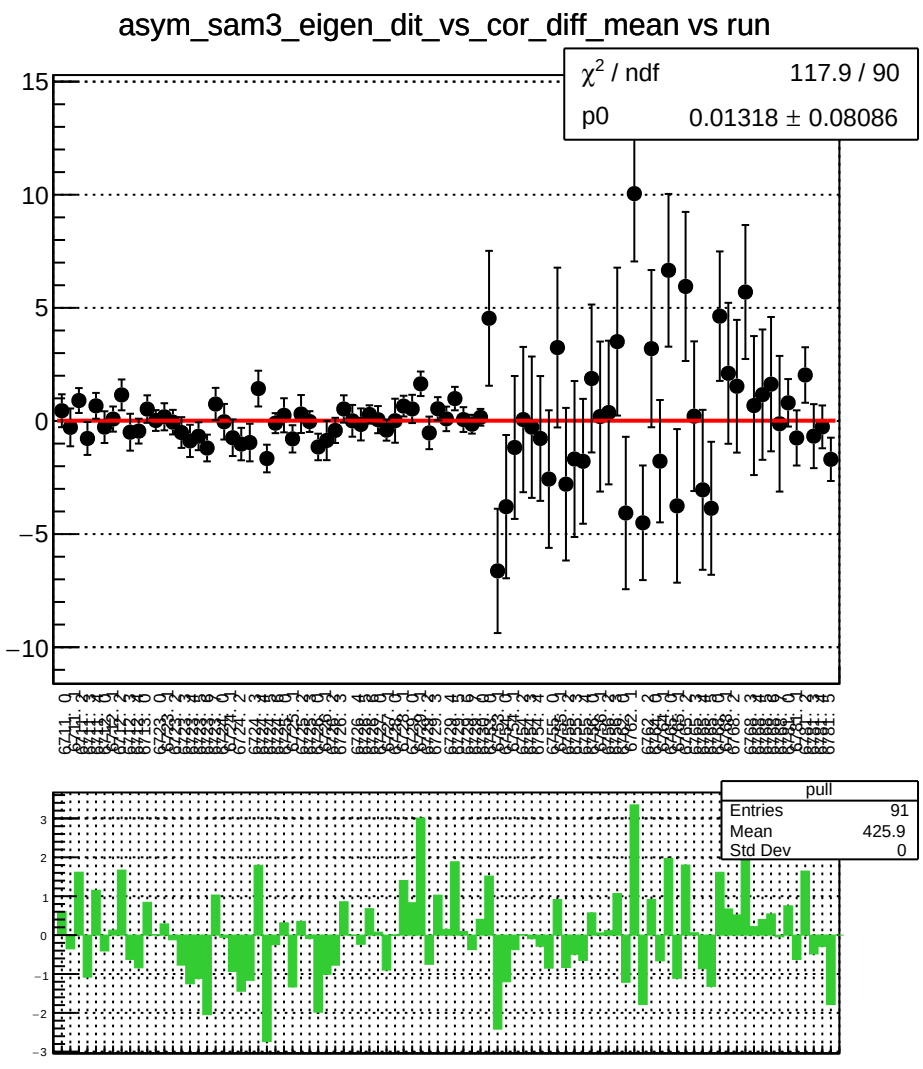

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.9 / 90
p0 0.01318 ± 0.08086
pull
Entries 91
Mean 425.9
Std Dev 0

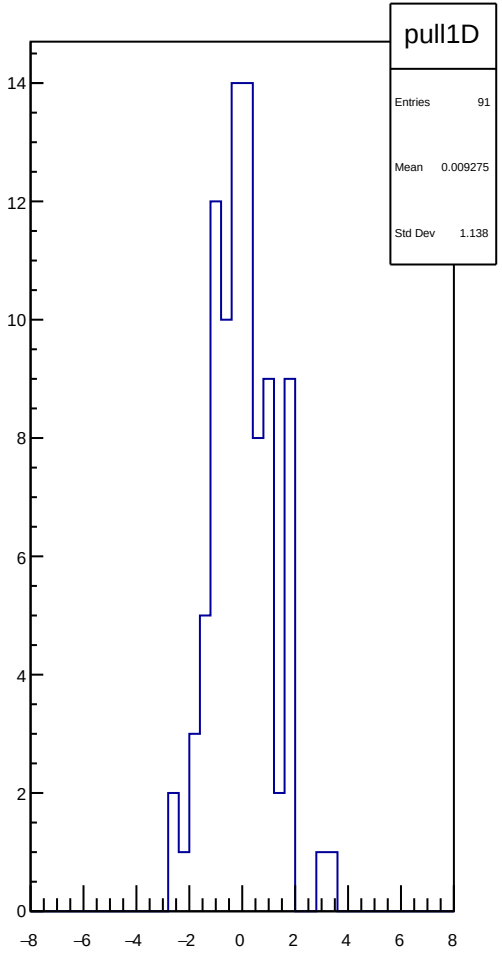

pull1D
Entries 91
Mean 0.009276
Std Dev 1.138

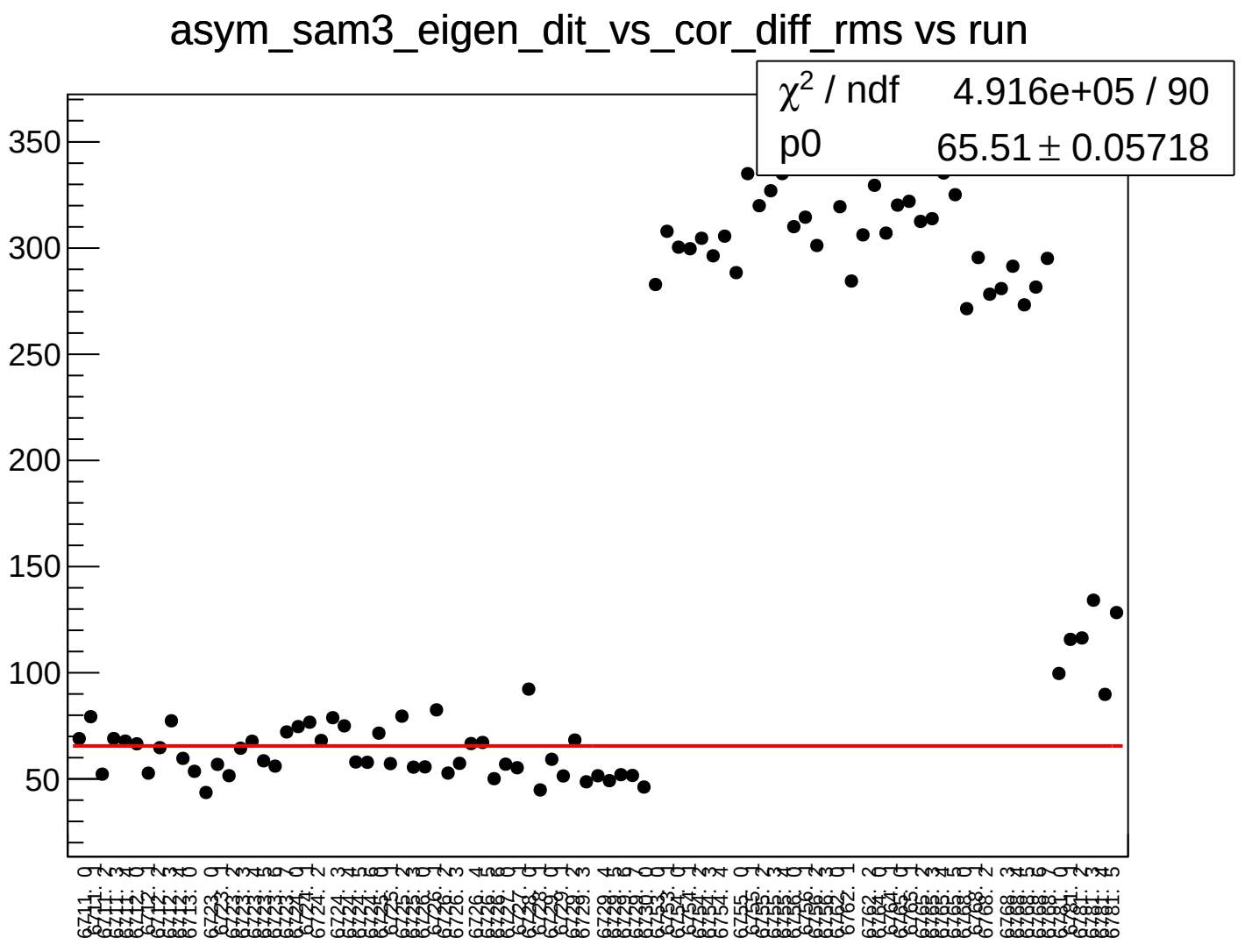

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.916e+05 / 90
p0 65.51 ± 0.05718
350
300
250
200
150
100
50

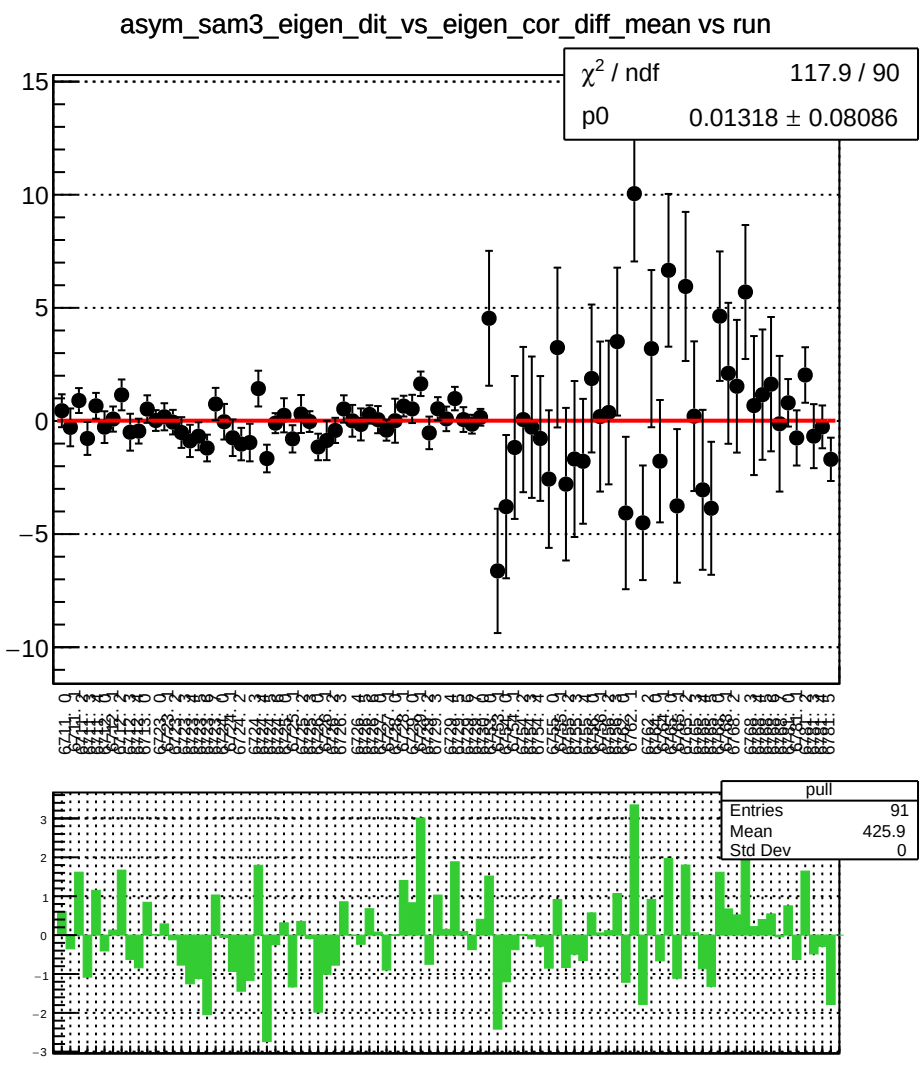

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.8 / 90
p0 −9.498e−07 ± 1.929e−06
pull
Entries 91
Mean 321.9
Std Dev 0
pull1D
Entries 91
Mean −0.01381
Std Dev 1.078

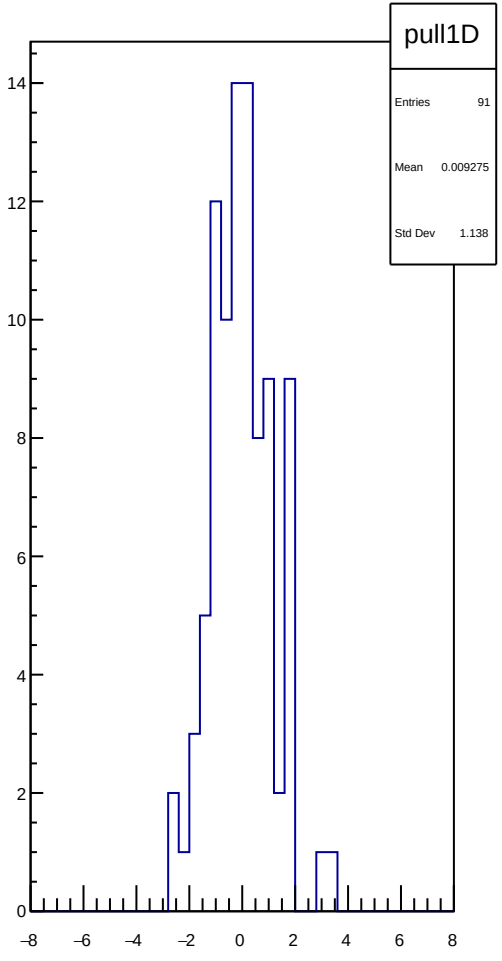

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.829e+04 / 90
p0 0.001808 ± 1.364e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

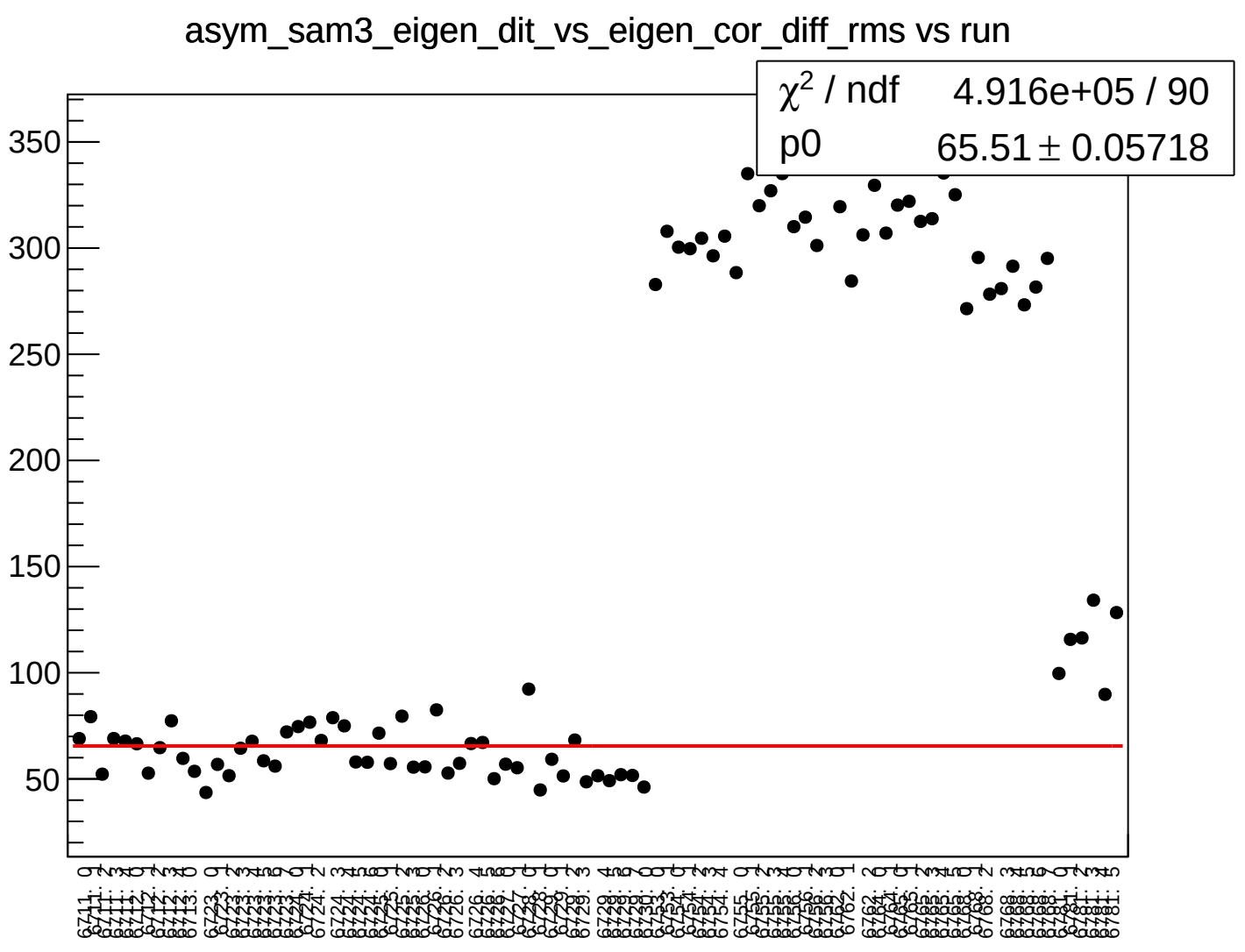

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 117.9 / 90
p0 0.01318 ± 0.08086
pull
Entries 91
Mean 425.9
Std Dev 0

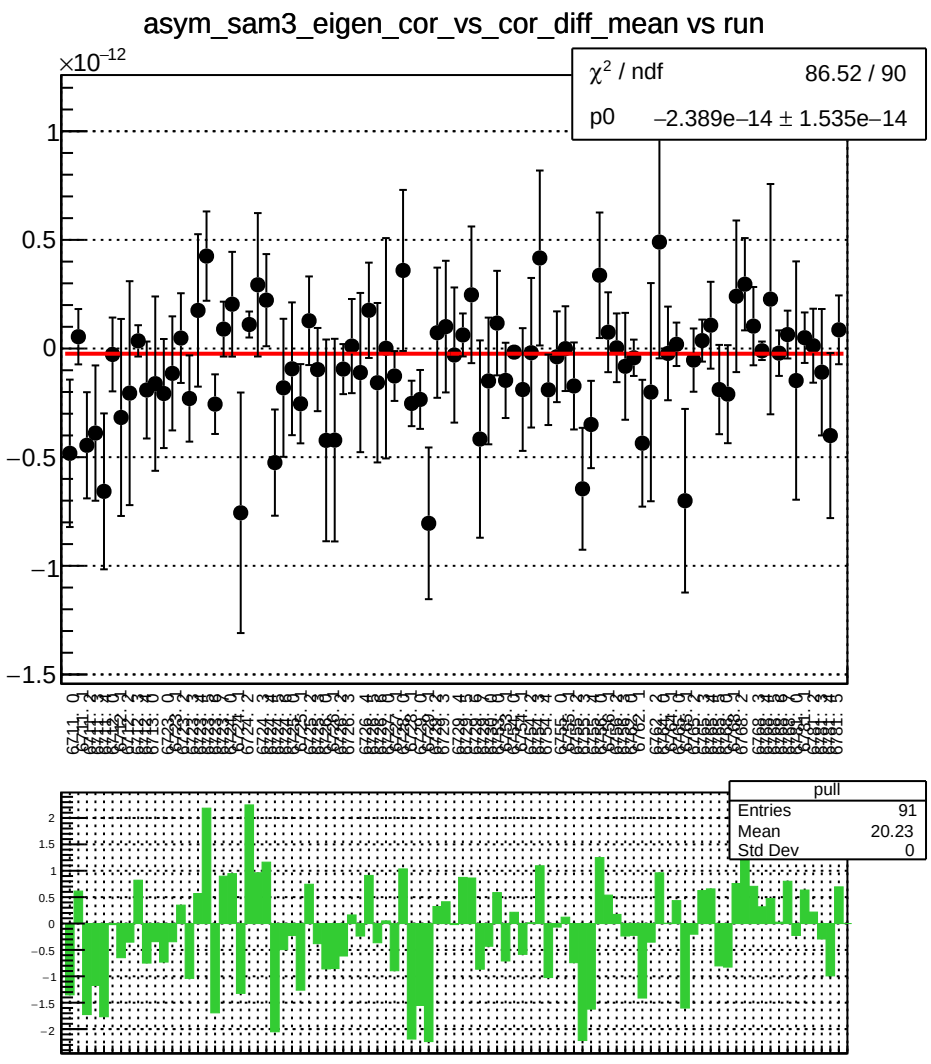

pull1D
Entries 91
Mean 0.009275
Std Dev 1.138

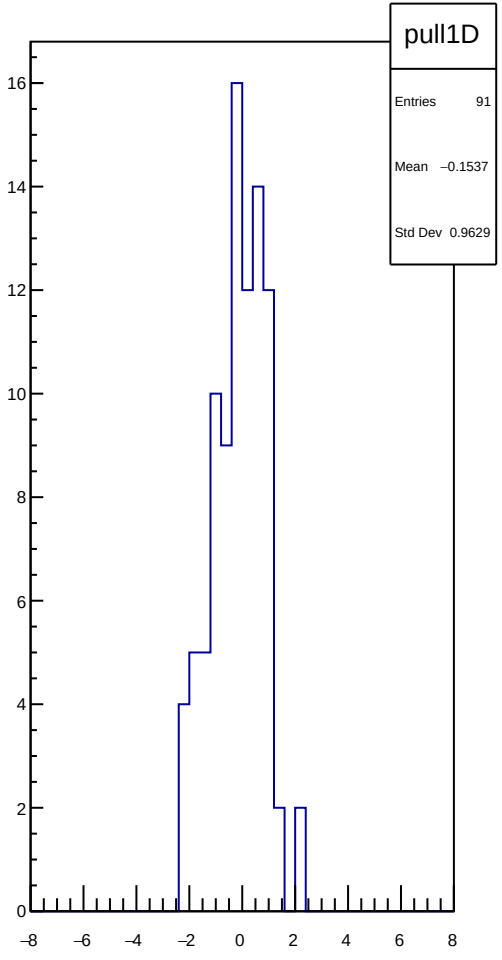

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.916e+05 / 90
p0 65.51 ± 0.05718
350
300
250
200
150
100
50

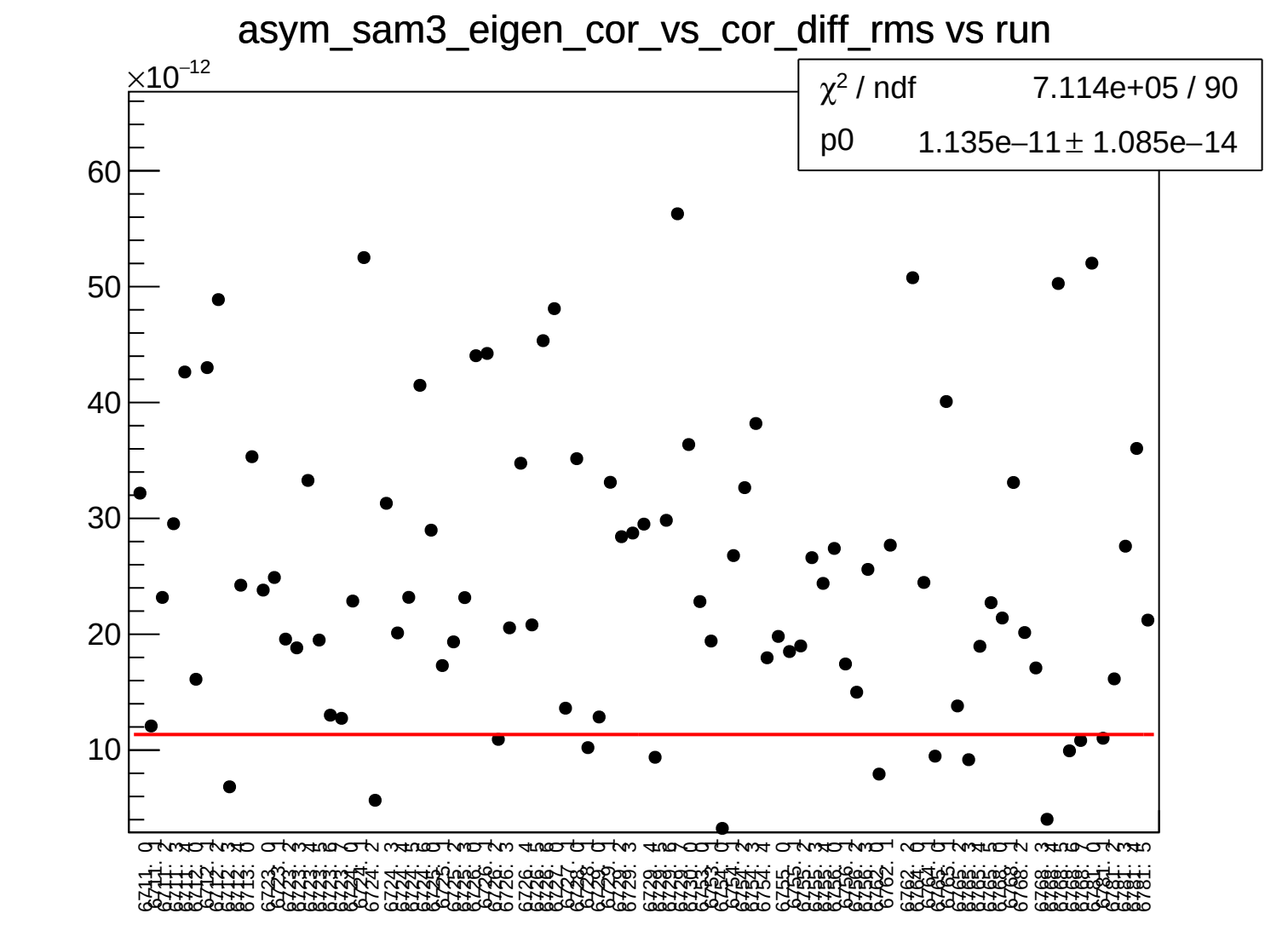

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.9 / 90
p0 0.01318 ± 0.08086
pull
Entries 91
Mean 425.9
Std Dev 0

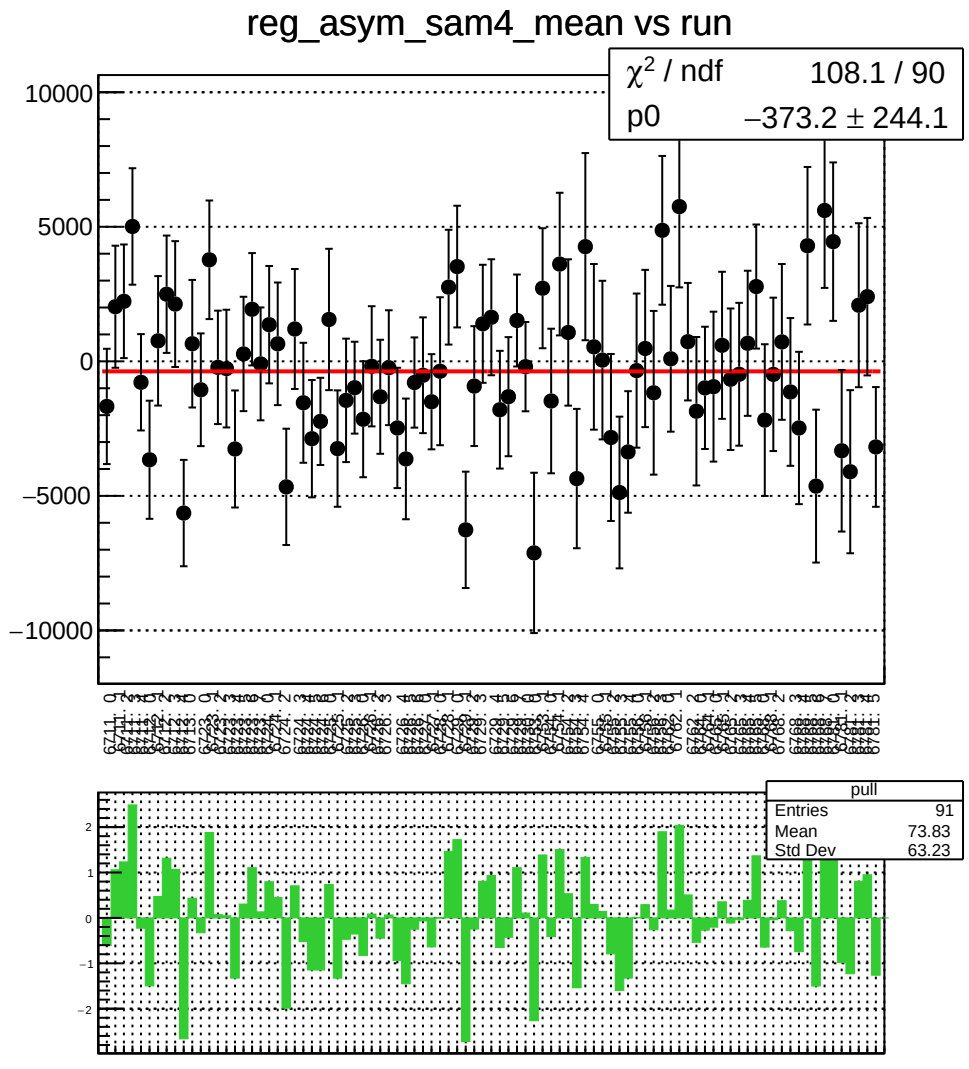

pull1D
Entries 91
Mean 0.009275
Std Dev 1.138

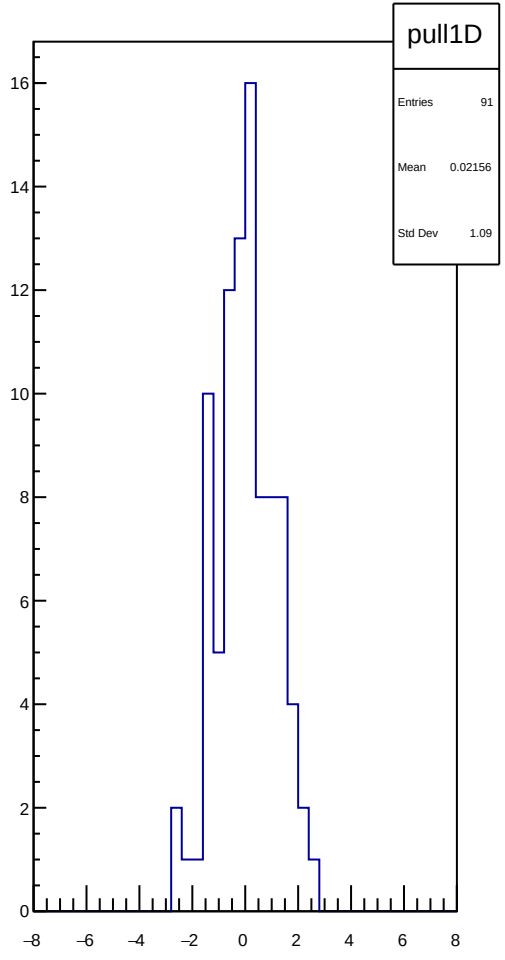

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.916e+05 / 90
p0 65.51 ± 0.05718
350
300
250
200
150
100
50

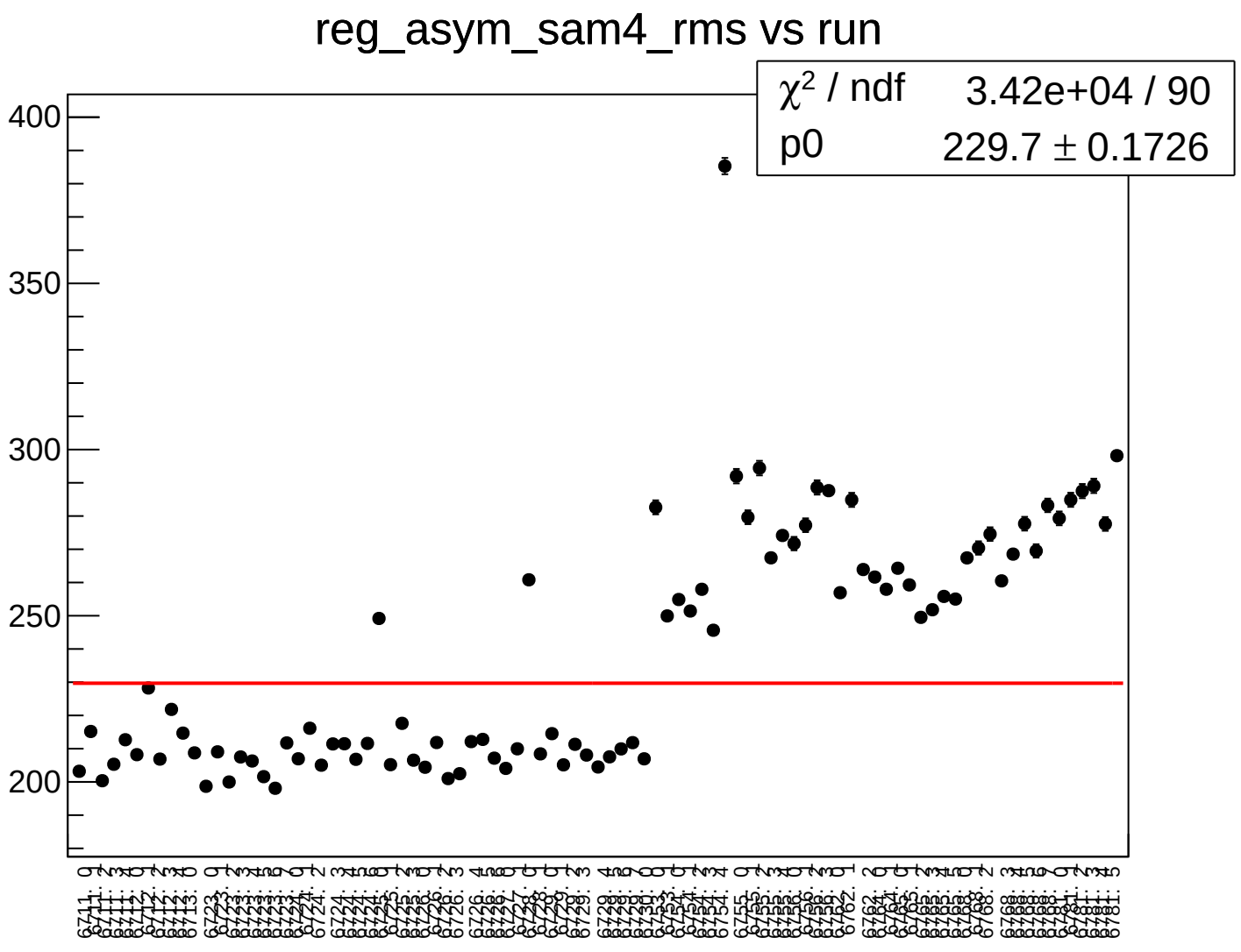

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.52 / 90
p0 −2.389e−14 ± 1.535e−14
pull
Entries 91
Mean 20.23
Std Dev 0

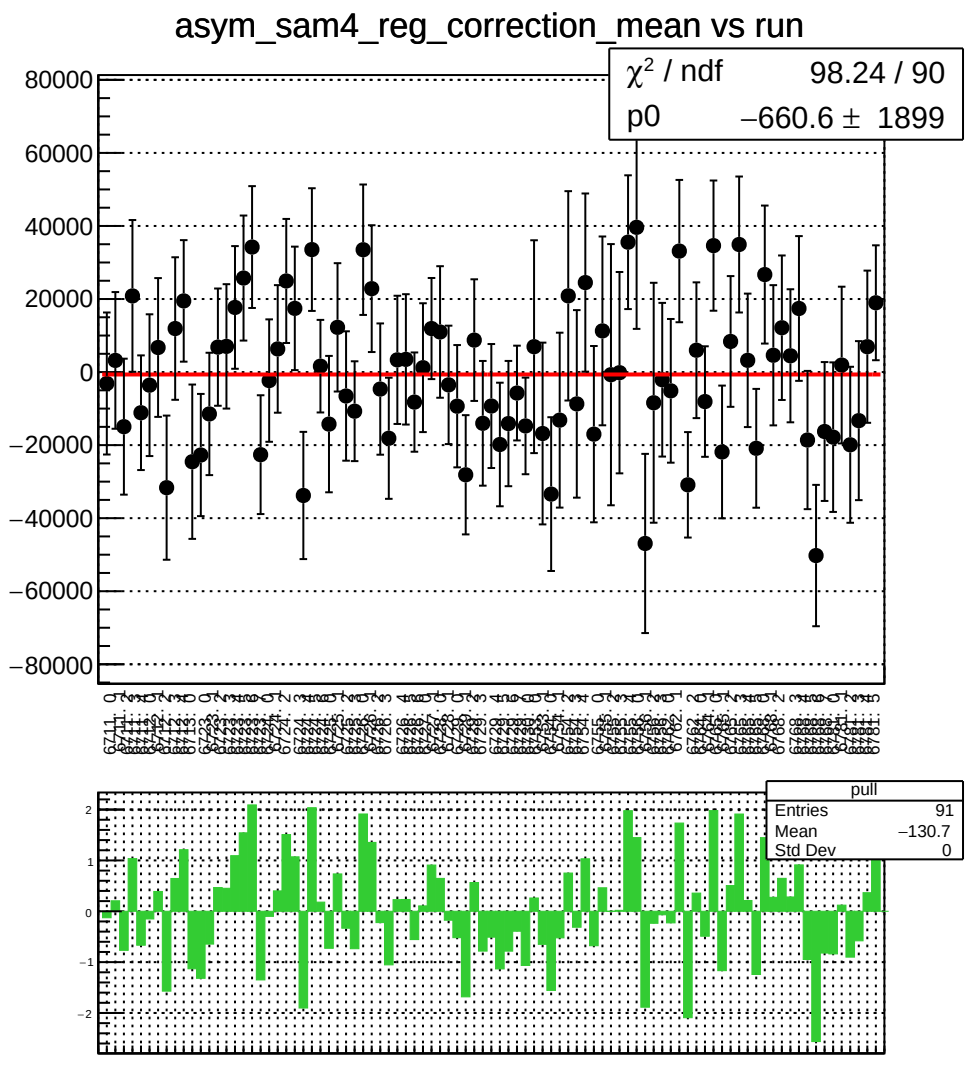

pull1D
Entries 91
Mean −0.1537
Std Dev 0.9629

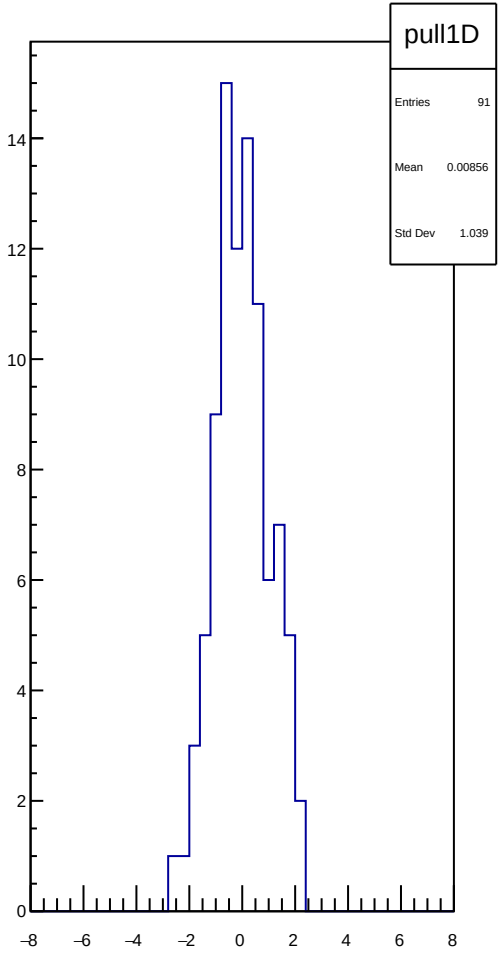

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.114e+05 / 90
p0 1.135e−11 ± 1.085e−14
60
50
40
30
20
10

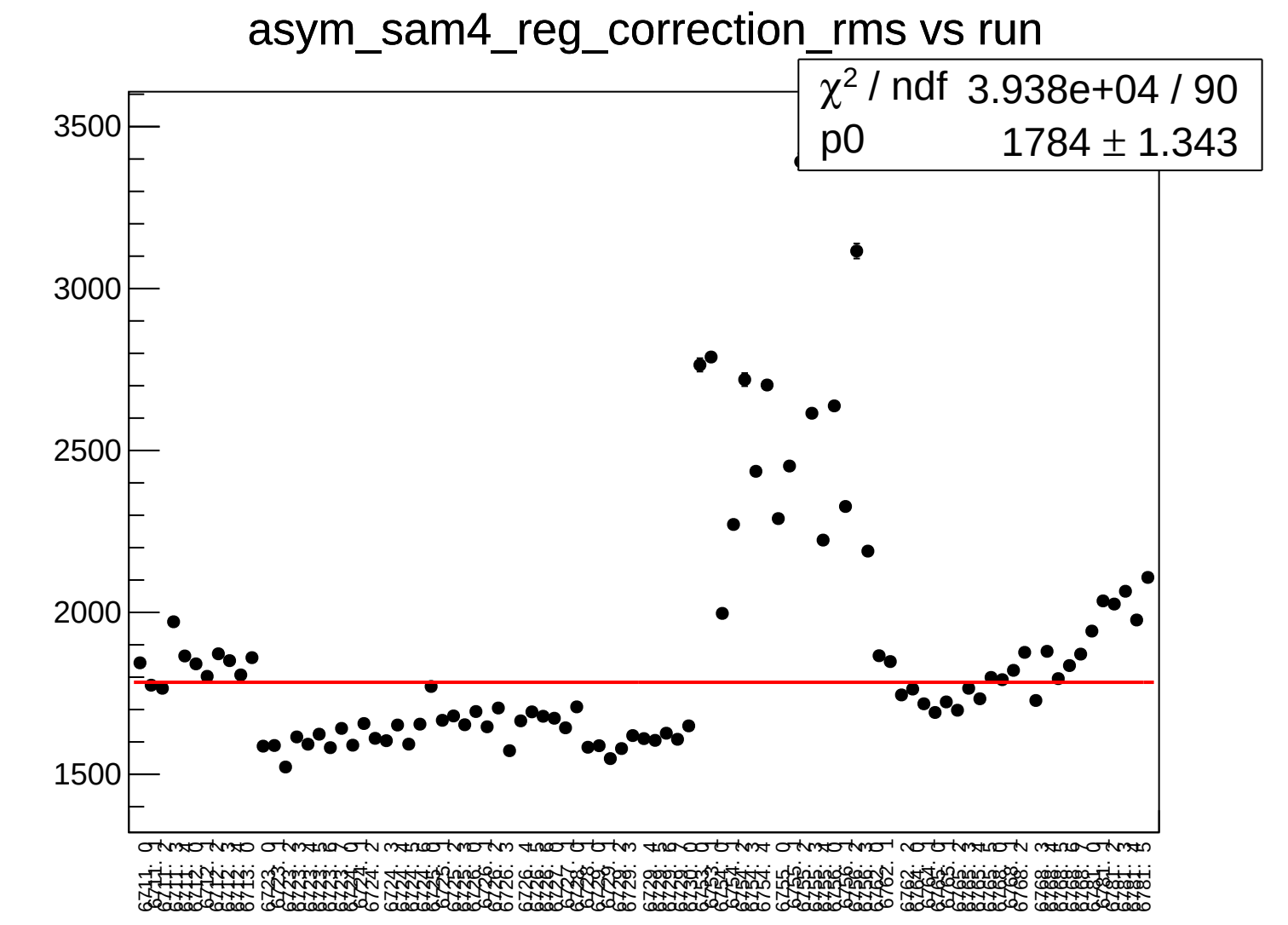

reg_asym_sam4_mean vs run
χ² / ndf 108.1 / 90
p0 −373.2 ± 244.1
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 73.83
Std Dev 63.23
2
1
0
−1
−2

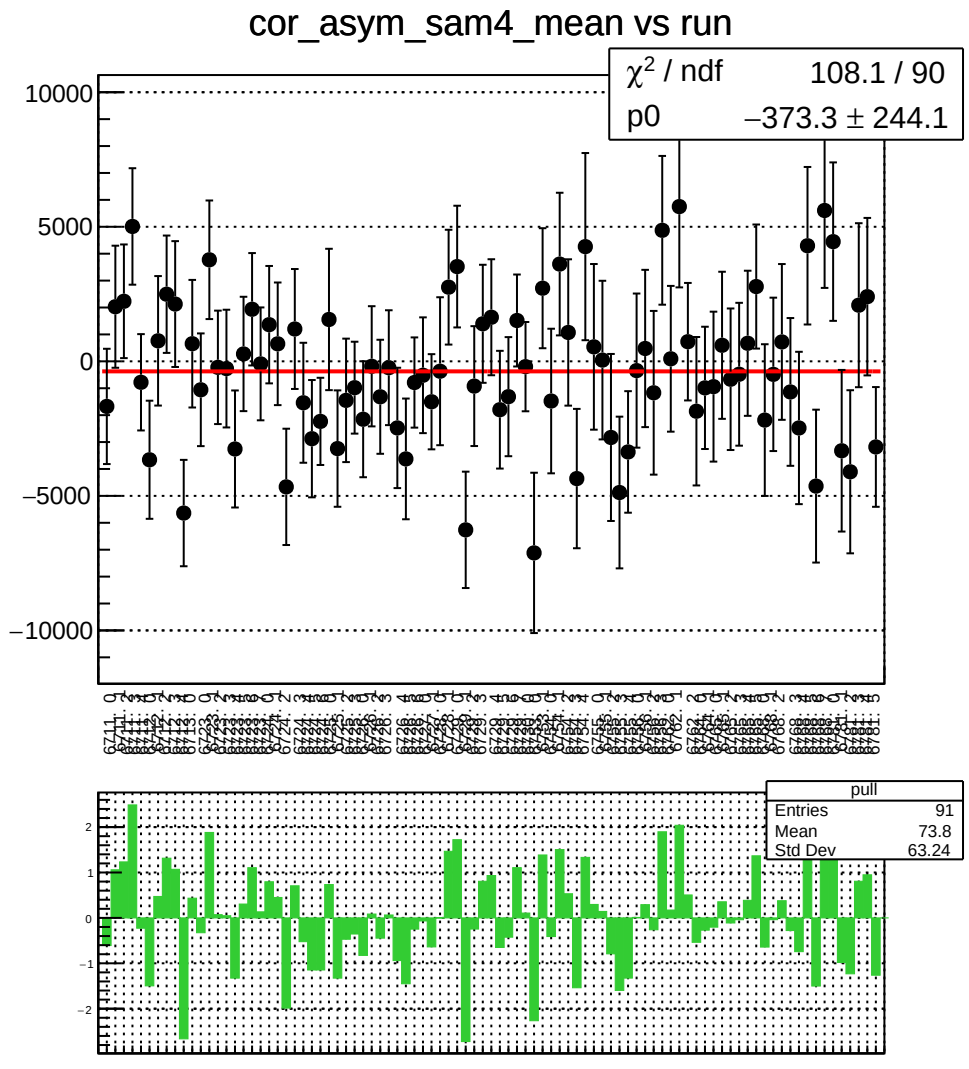

pull1D
Entries 91
Mean 0.02156
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

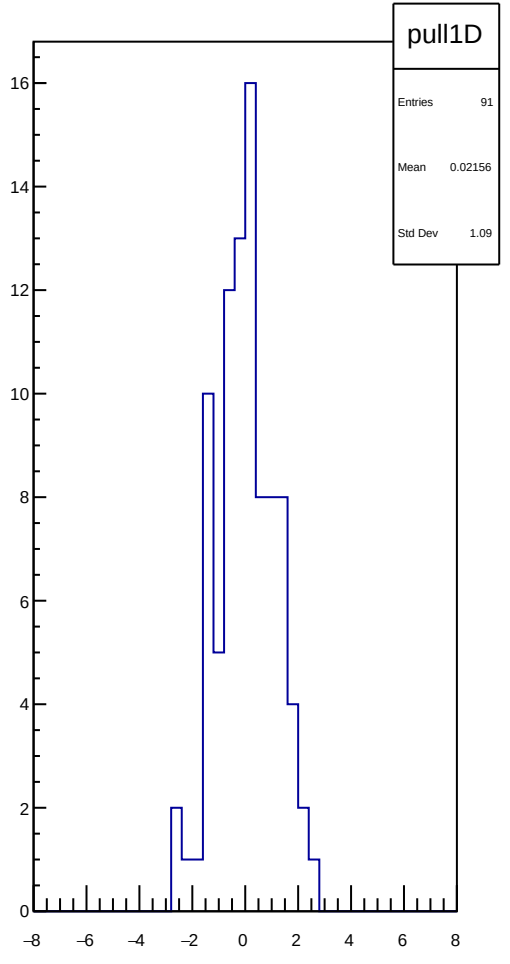

reg_asym_sam4_rms vs run
χ² / ndf 3.42e+04 / 90
p0 229.7 ± 0.1726
400
350
300
250
200

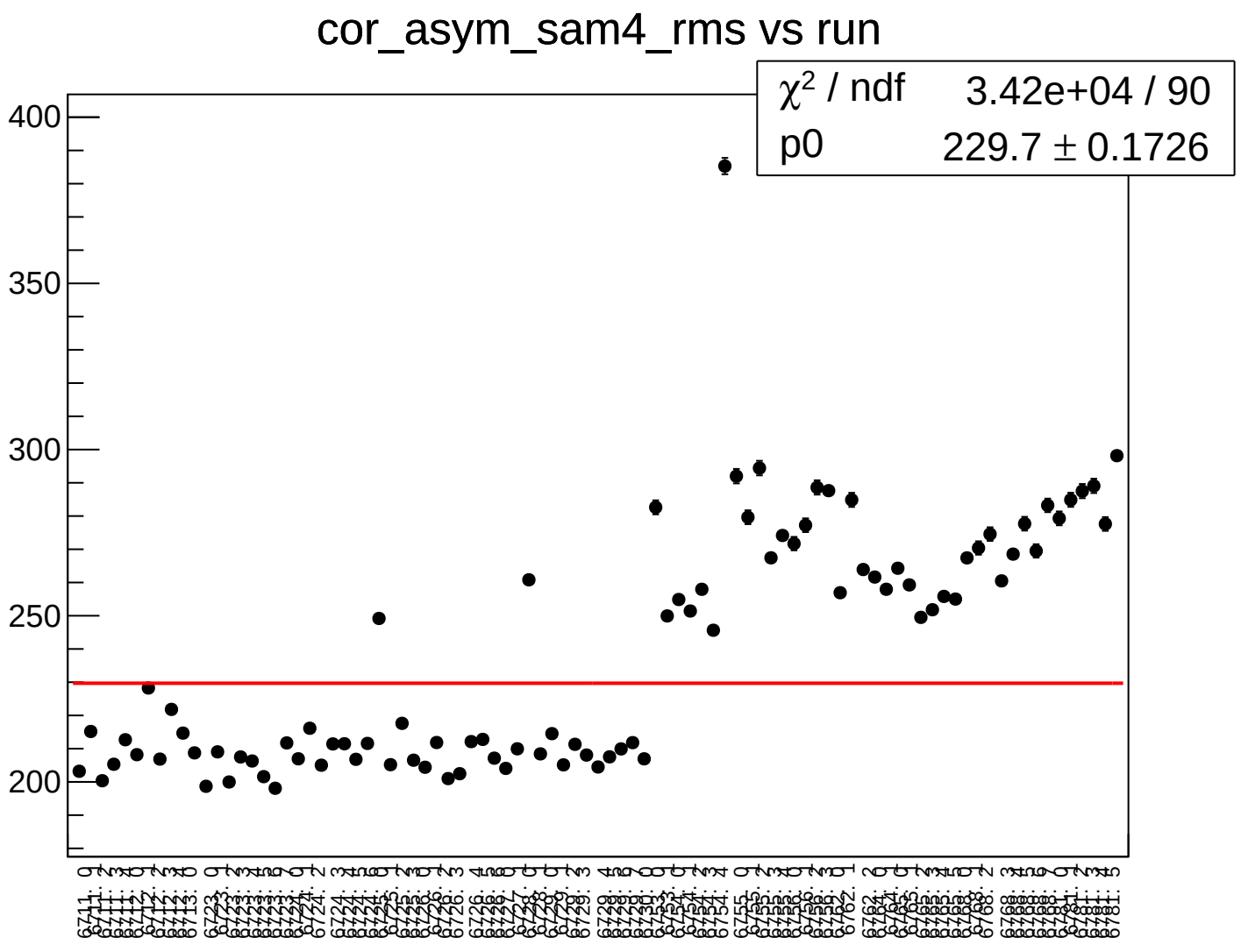

asym_sam4_reg_correction_mean vs run
χ² / ndf 98.24 / 90
p0 −660.6 ± 1899
pull
Entries 91
Mean −130.7
Std Dev 0

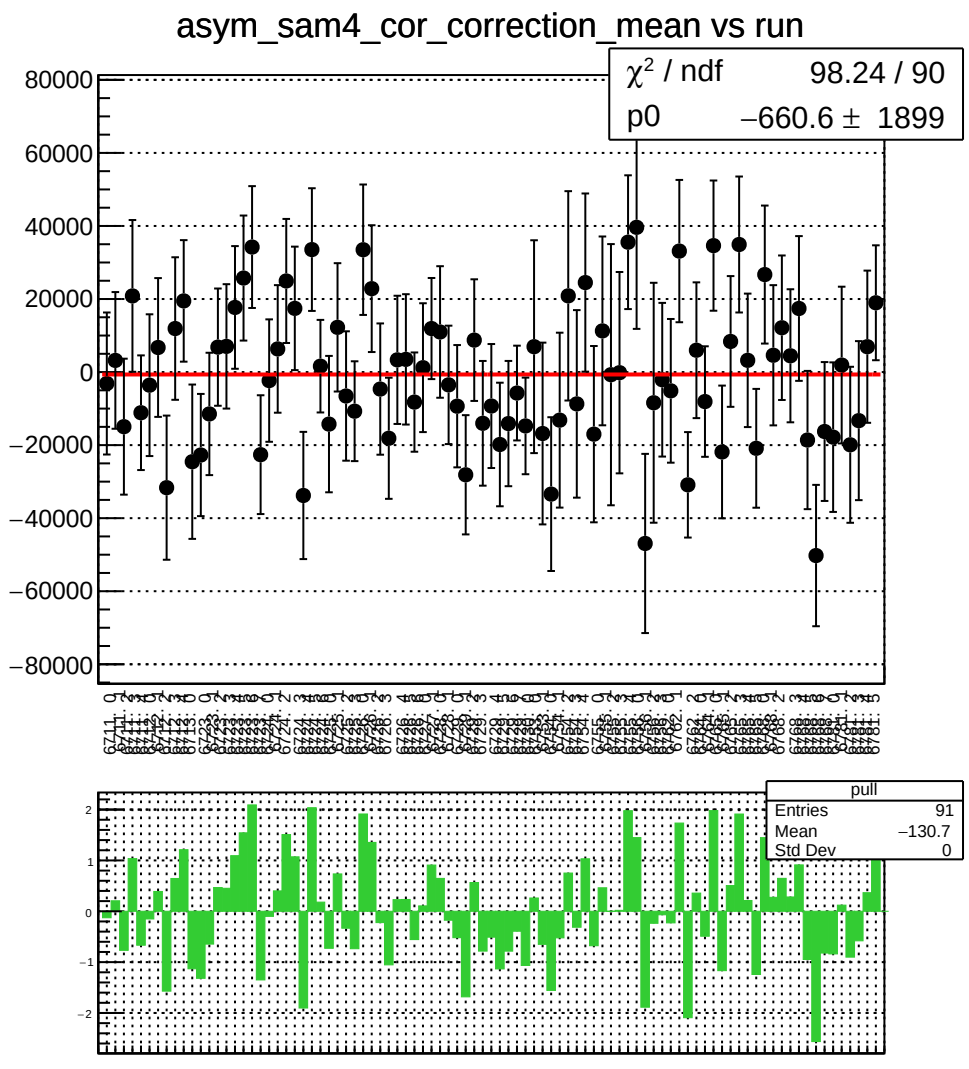

pull1D
Entries 91
Mean 0.00856
Std Dev 1.039

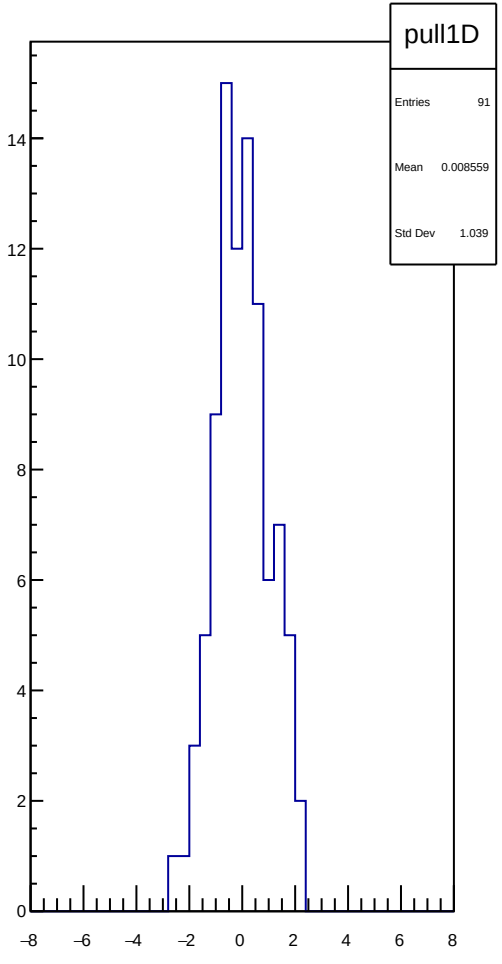

asym_sam4_reg_correction_rms vs run
χ² / ndf 3.938e+04 / 90
p0 1784 ± 1.343
3500
3000
2500
2000
1500

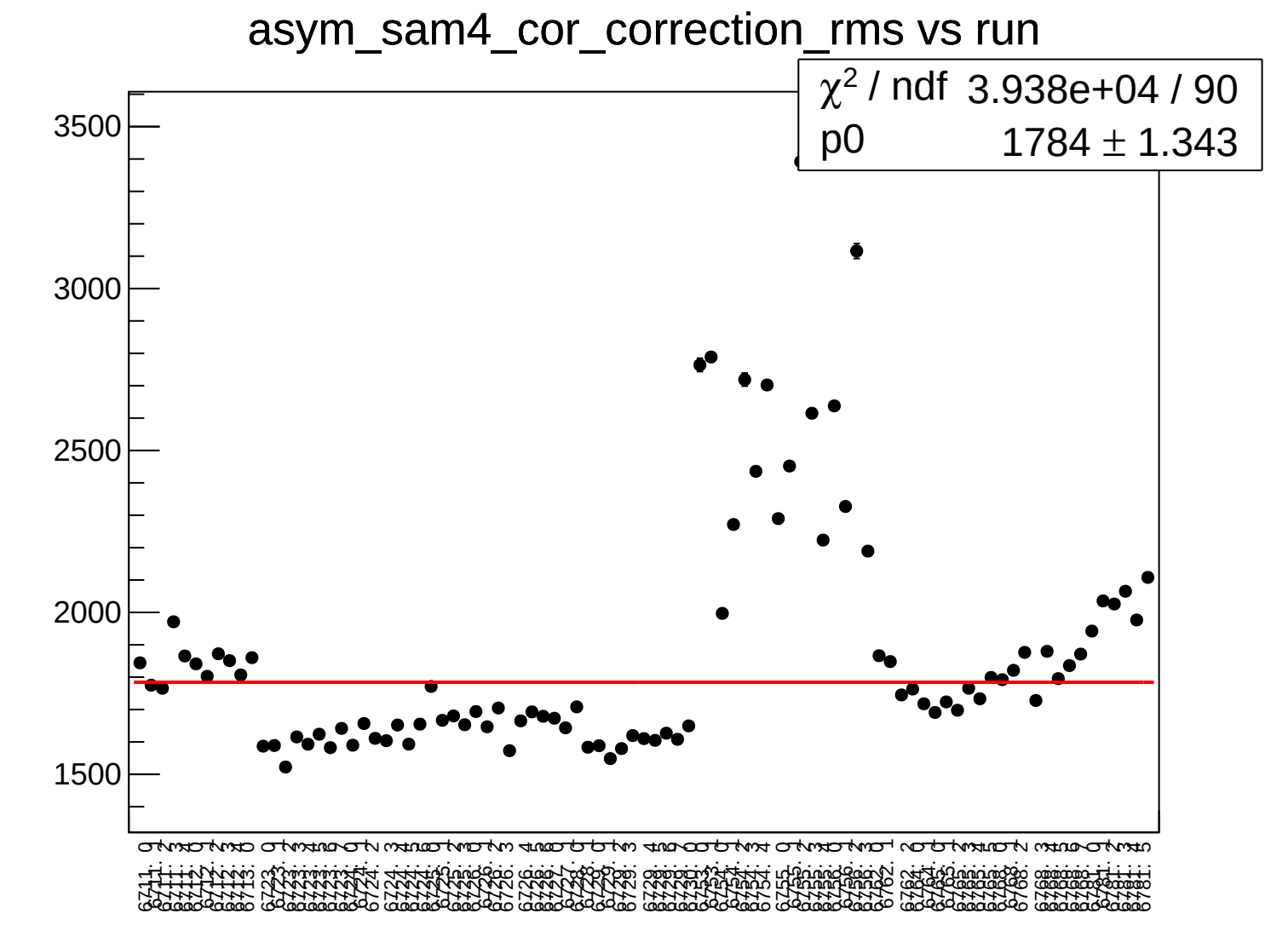

cor_asym_sam4_mean vs run
χ² / ndf 108.1 / 90
p0 −373.3 ± 244.1
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 73.8
Std Dev 63.24
2
1
0
−1
−2

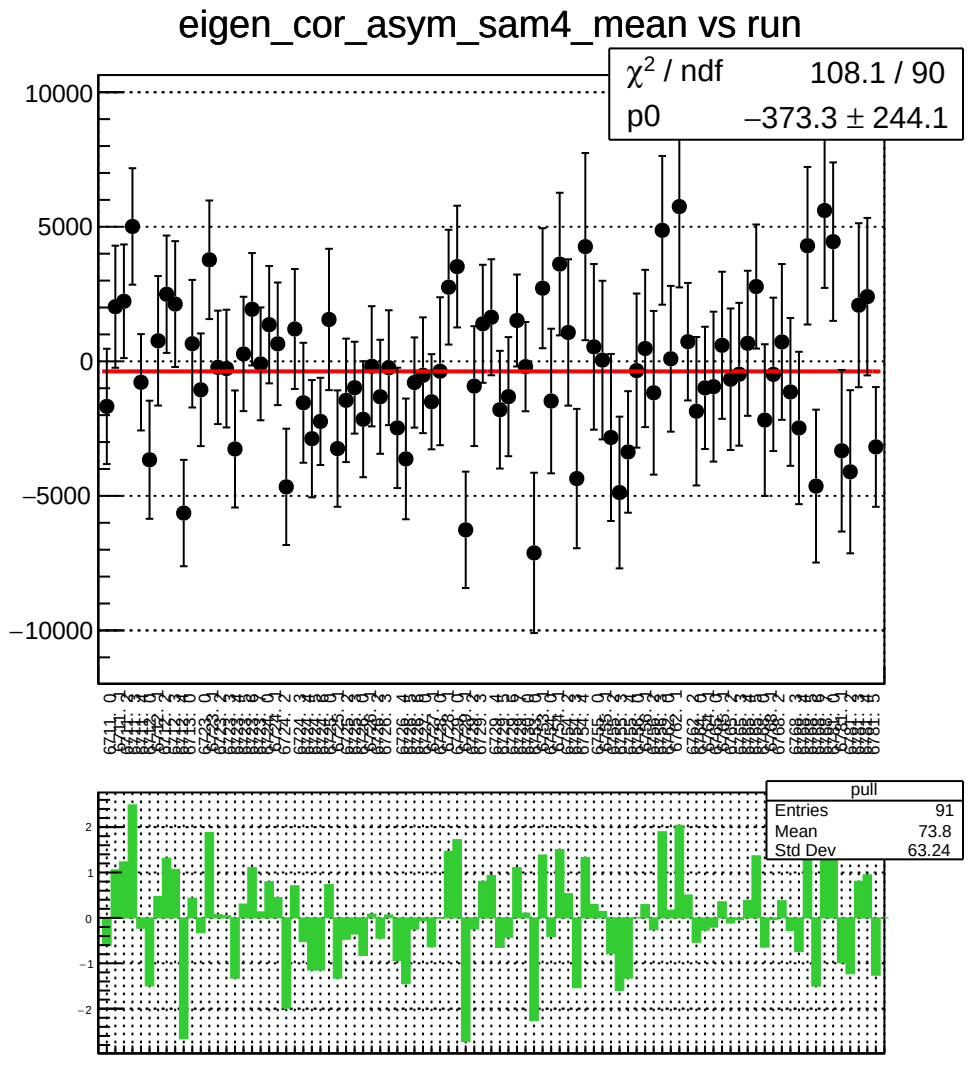

pull1D
Entries 91
Mean 0.02156
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

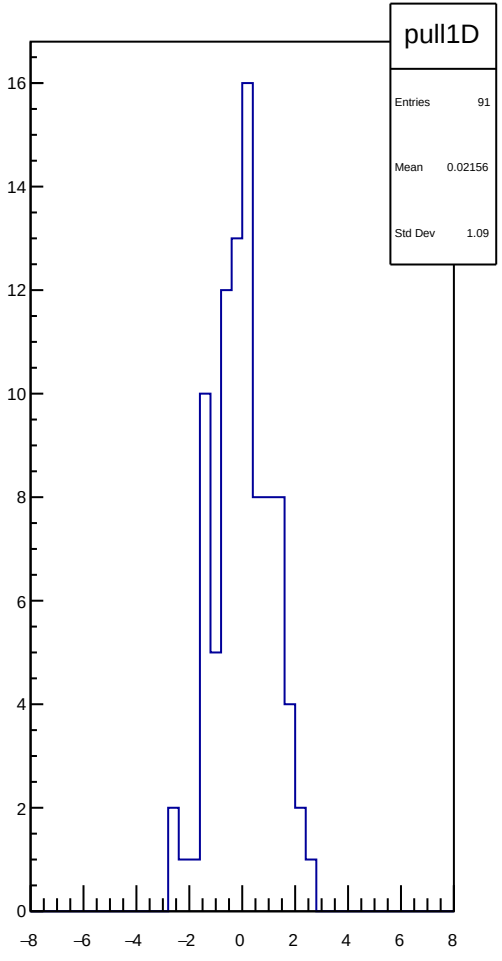

cor_asym_sam4_rms vs run
χ² / ndf 3.42e+04 / 90
p0 229.7 ± 0.1726
400
350
300
250
200

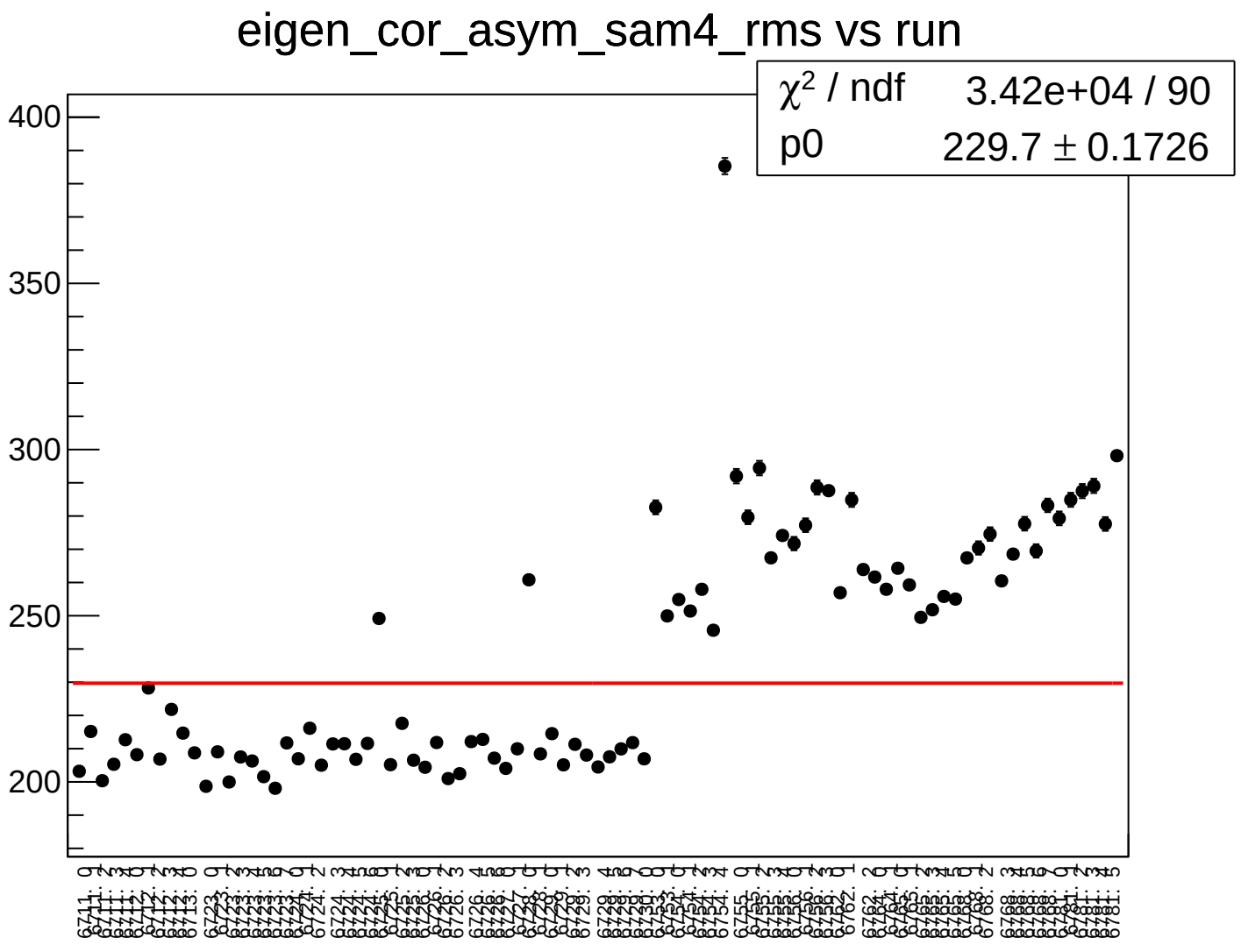

asym_sam4_cor_correction_mean vs run
χ² / ndf 98.24 / 90
p0 −660.6 ± 1899
pull
Entries 91
Mean −130.7
Std Dev 0

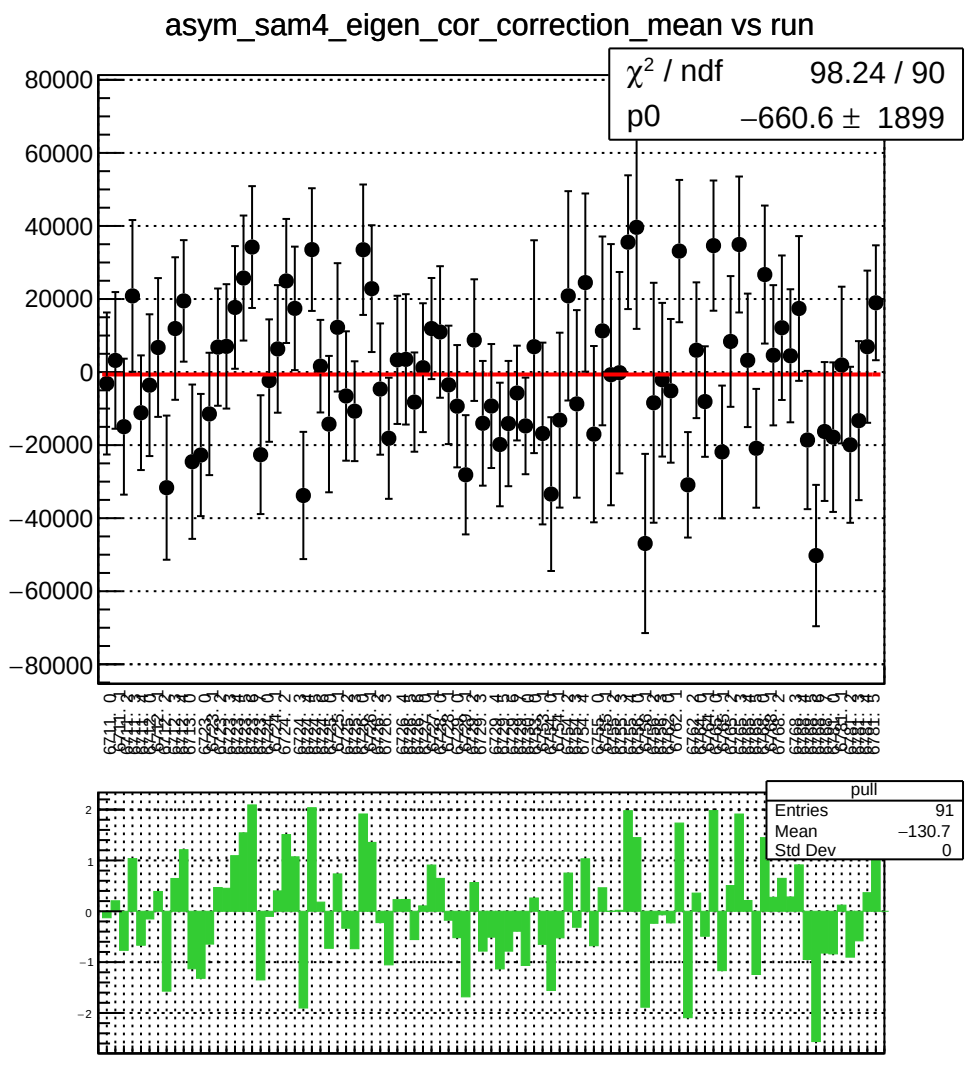

pull1D
Entries 91
Mean 0.008559
Std Dev 1.039

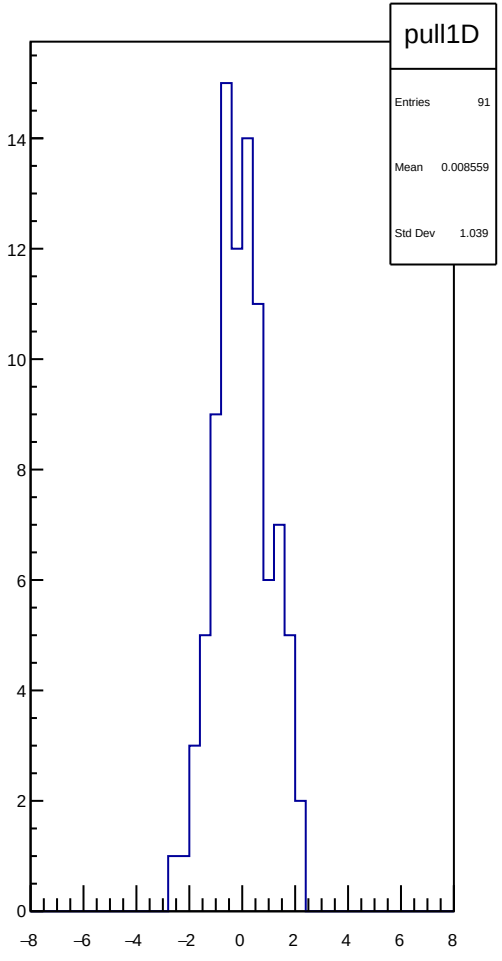

asym_sam4_cor_correction_rms vs run
χ² / ndf 3.938e+04 / 90
p0 1784 ± 1.343
3500
3000
2500
2000
1500

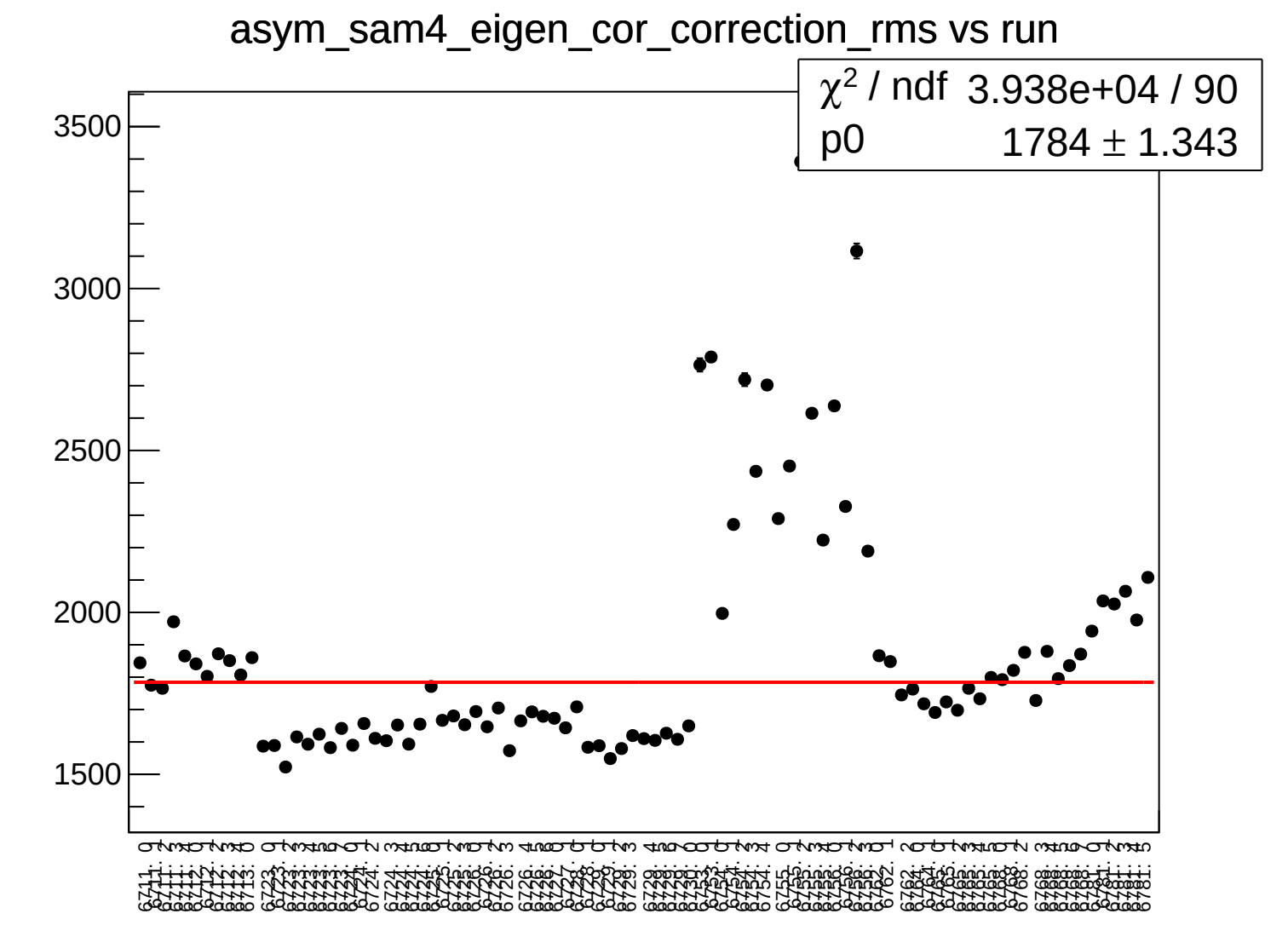

eigen_cor_asym_sam4_mean vs run
χ² / ndf 108.1 / 90
p0 −373.3 ± 244.1
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 73.8
Std Dev 63.24
2
1
0
−1
−2

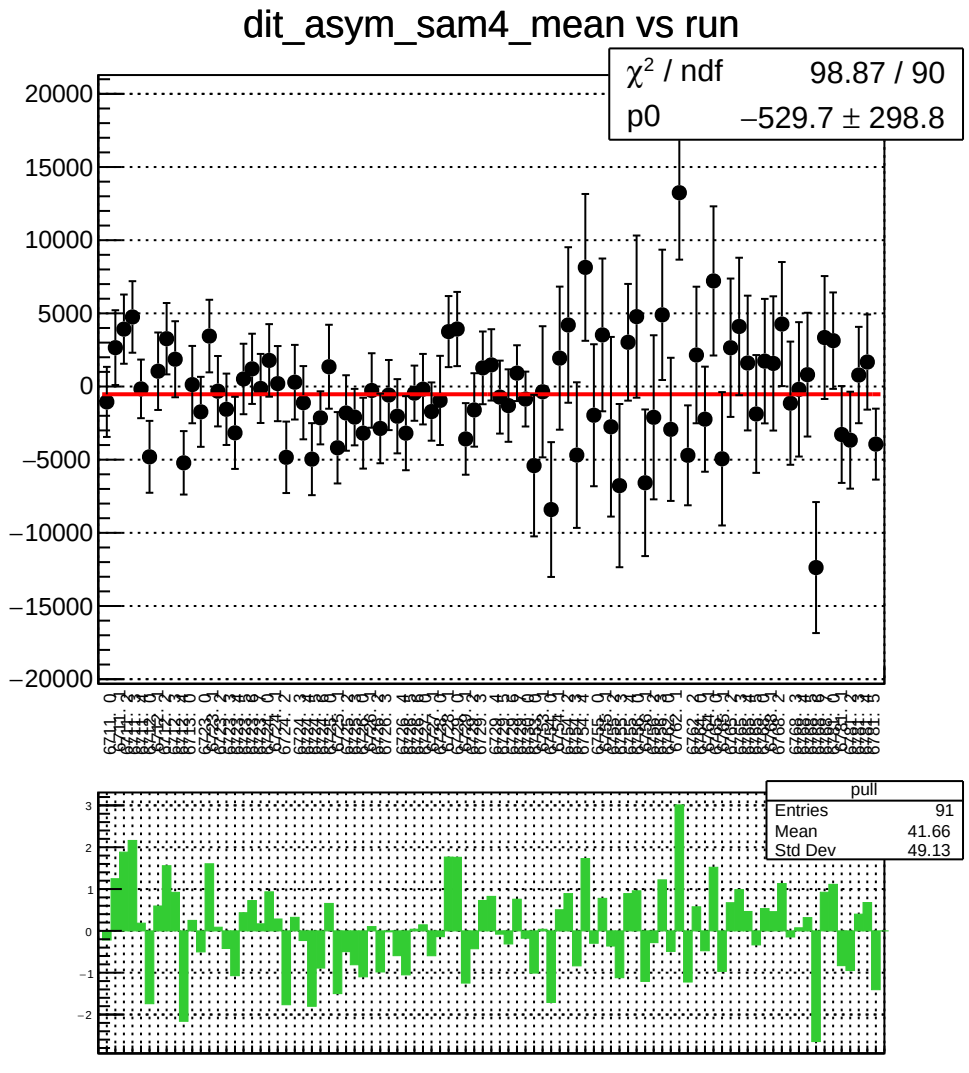

pull1D
Entries 91
Mean 0.02156
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

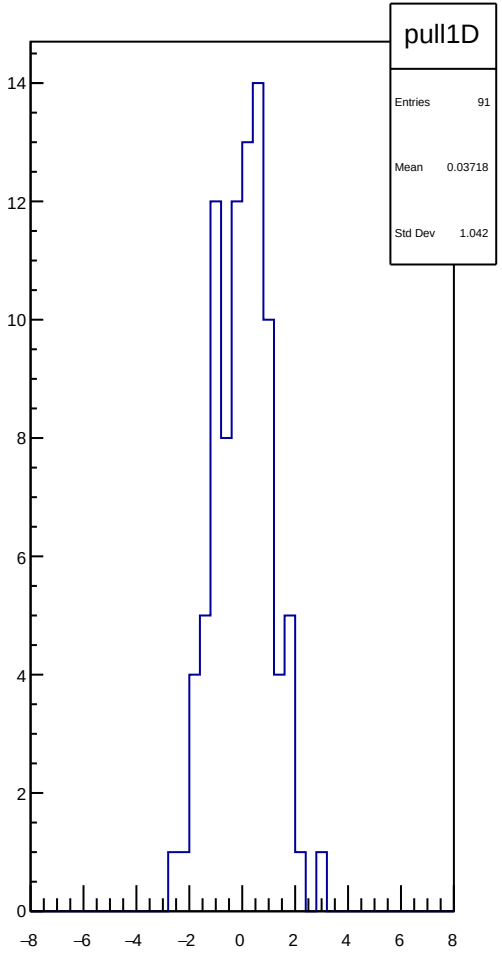

eigen_cor_asym_sam4_rms vs run
χ² / ndf 3.42e+04 / 90
p0 229.7 ± 0.1726
400
350
300
250
200

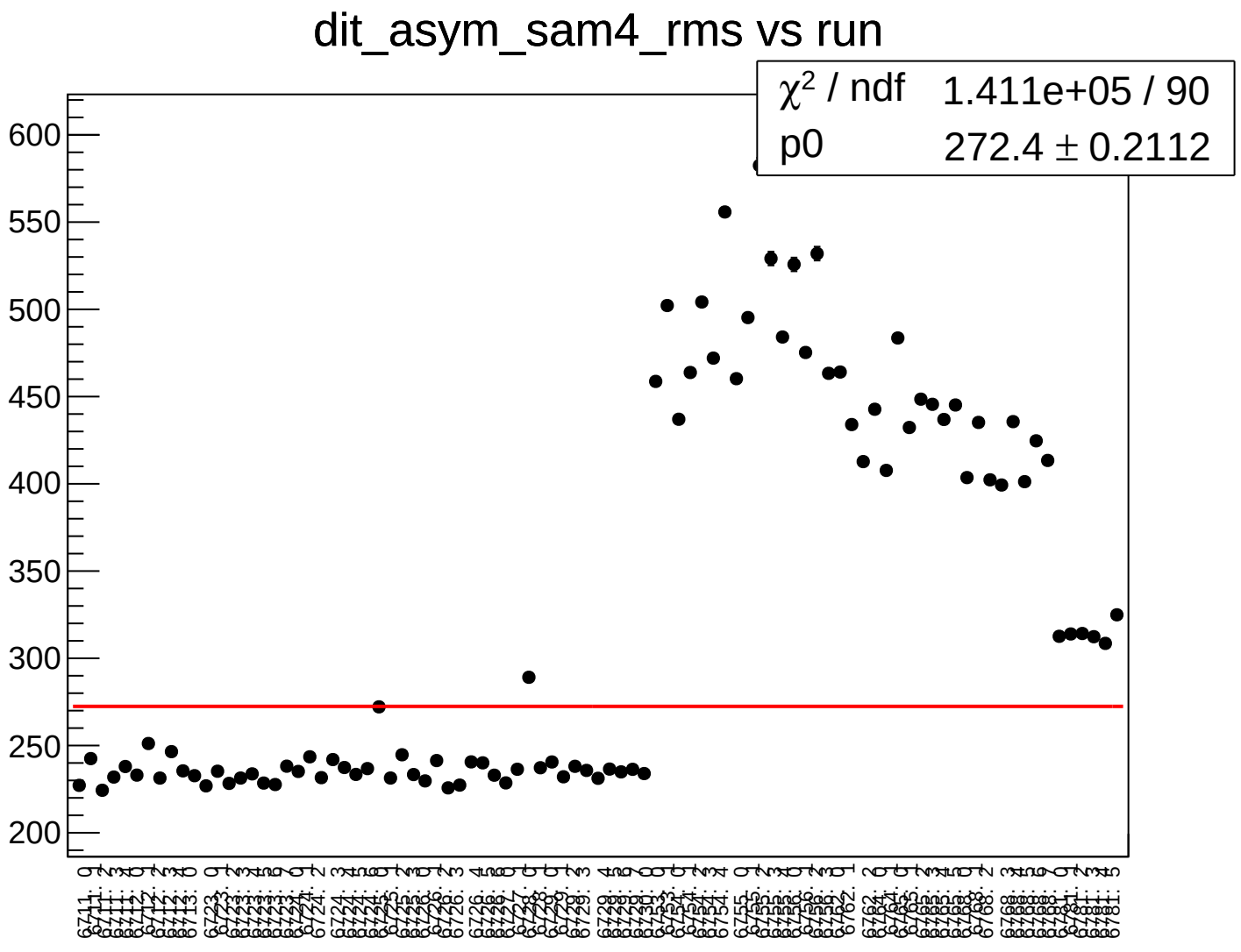

asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 98.24 / 90
p0 −660.6 ± 1899
pull
Entries 91
Mean −130.7
Std Dev 0

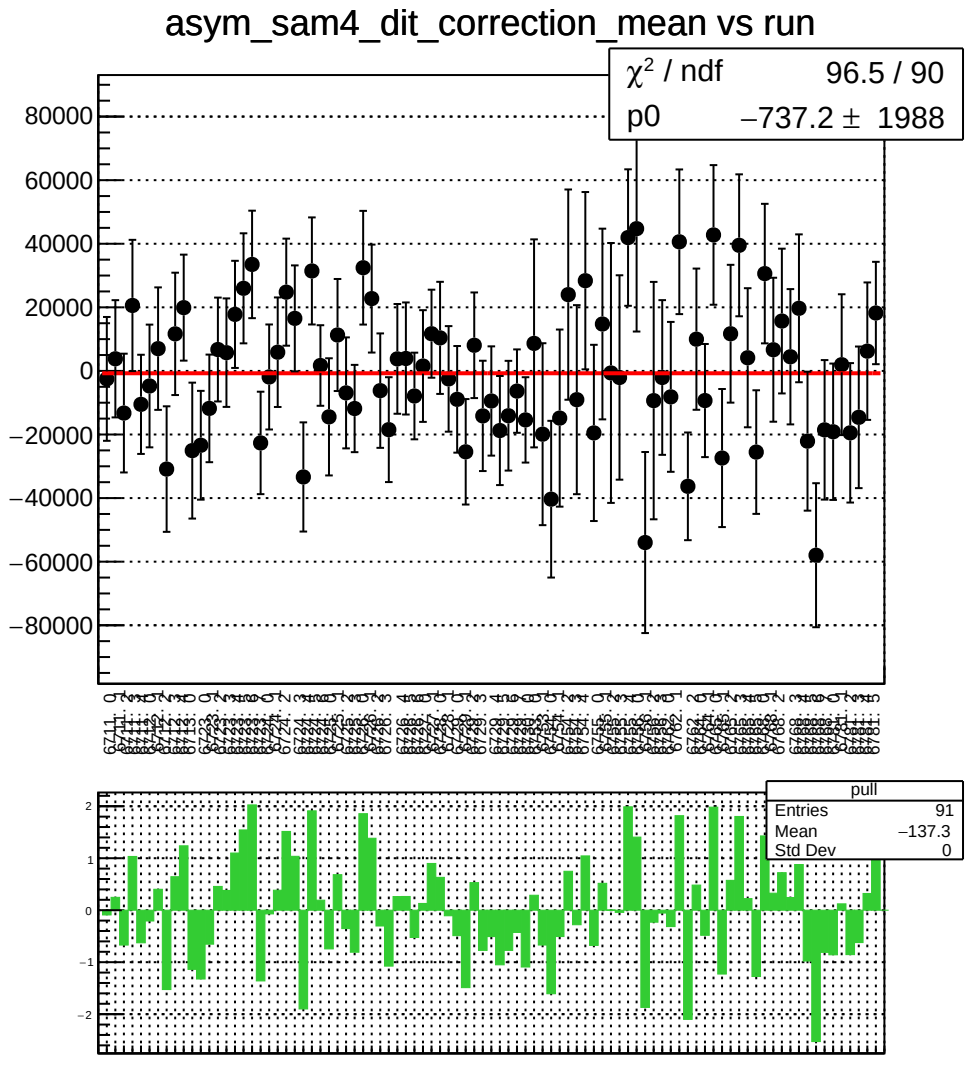

pull1D
Entries 91
Mean 0.008559
Std Dev 1.039

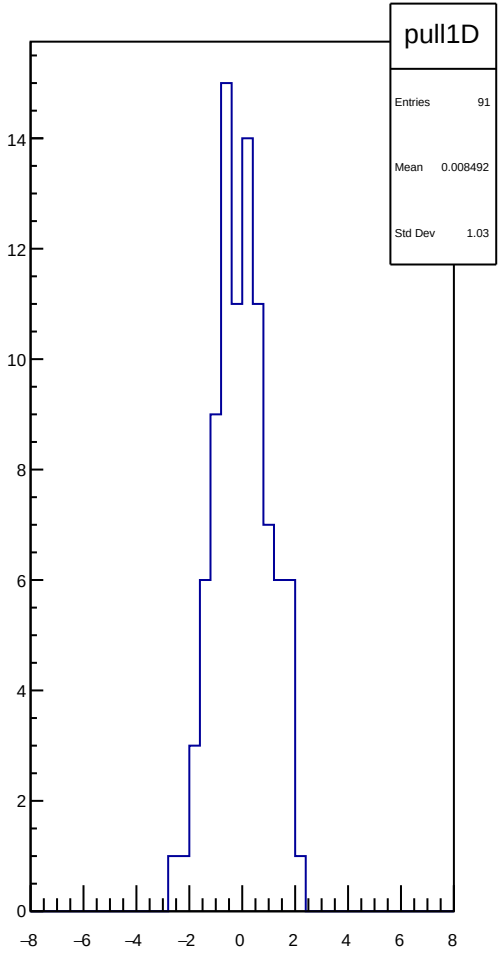

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 3.938e+04 / 90
p0 1784 ± 1.343
3500
3000
2500
2000
1500

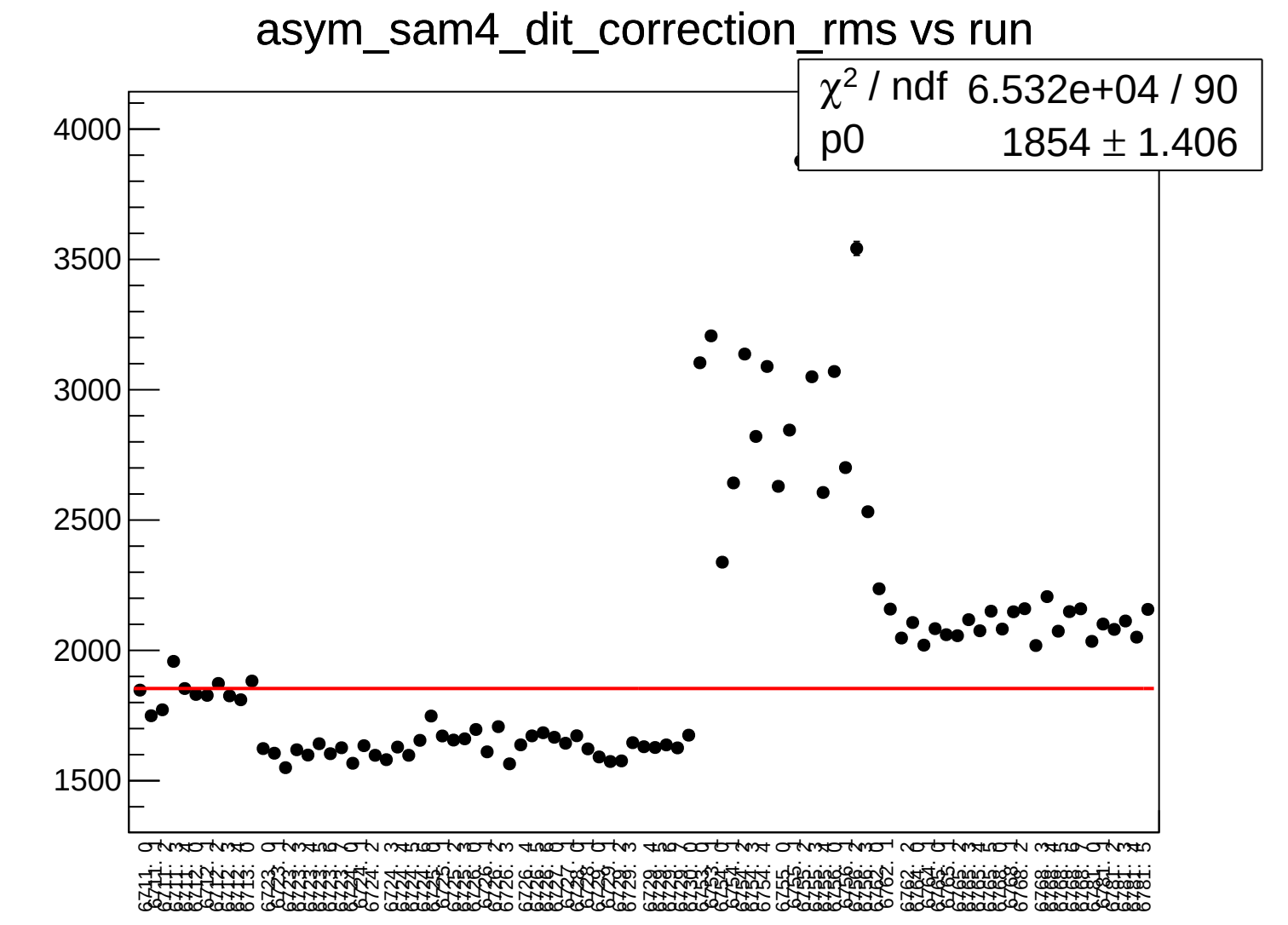

dit_asym_sam4_mean vs run
χ² / ndf 98.87 / 90
p0 −529.7 ± 298.8
pull
Entries 91
Mean 41.66
Std Dev 49.13

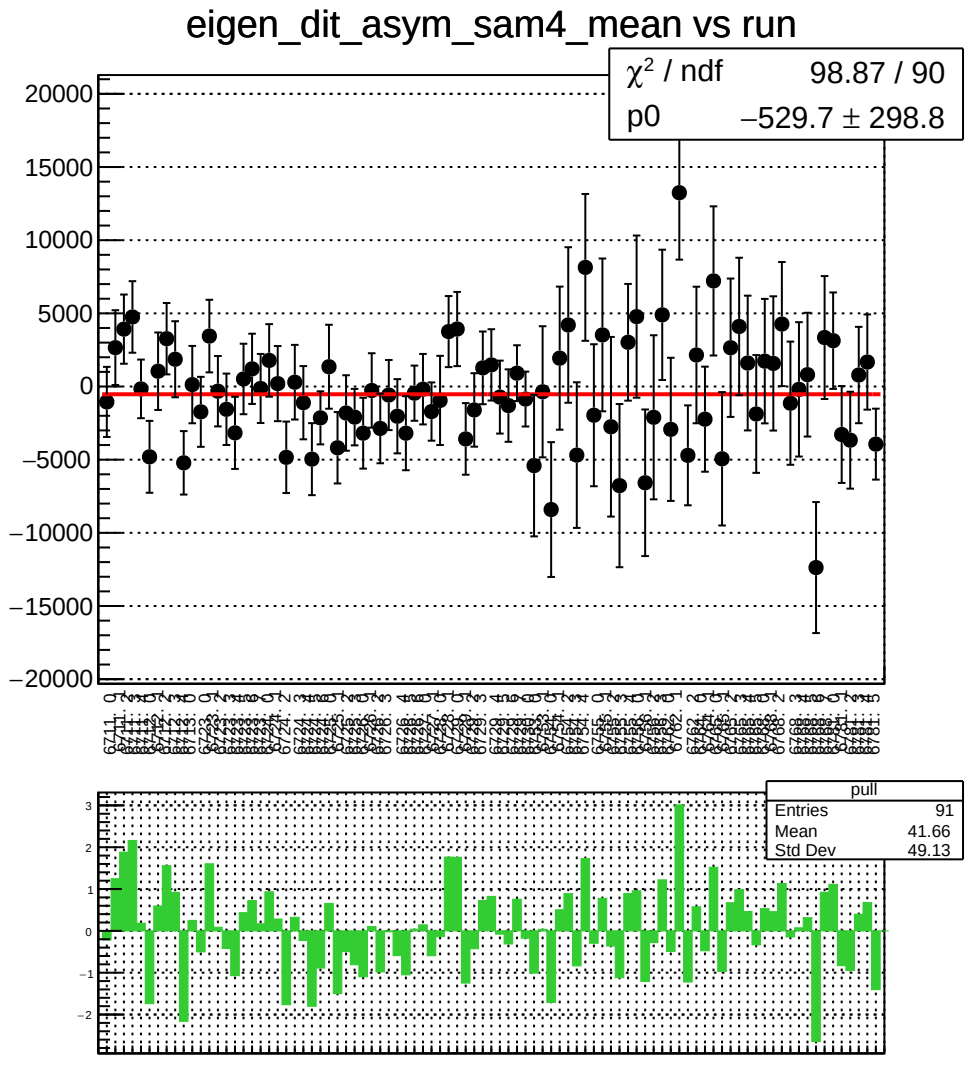

pull1D
Entries 91
Mean 0.03718
Std Dev 1.042

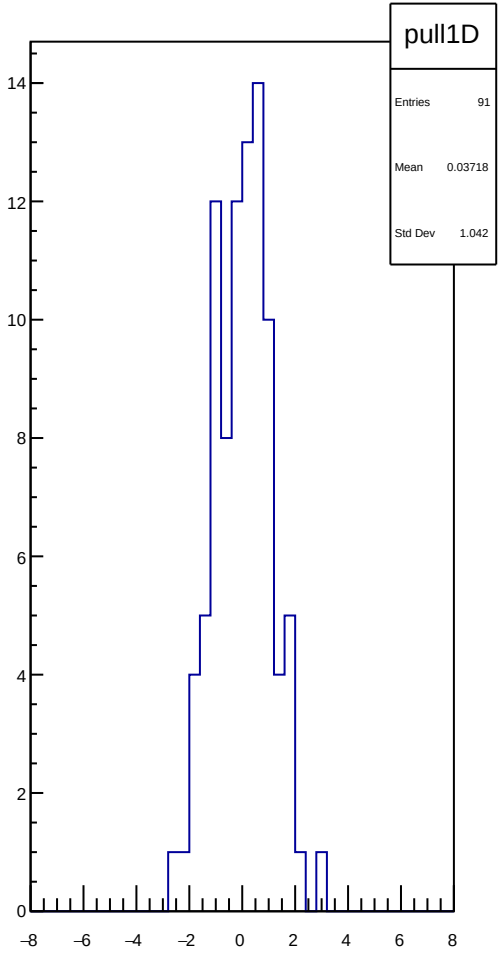

dit_asym_sam4_rms vs run
χ^2 / ndf 1.411e+05 / 90
p0 272.4 ± 0.2112
600
550
500
450
400
350
300
250
200

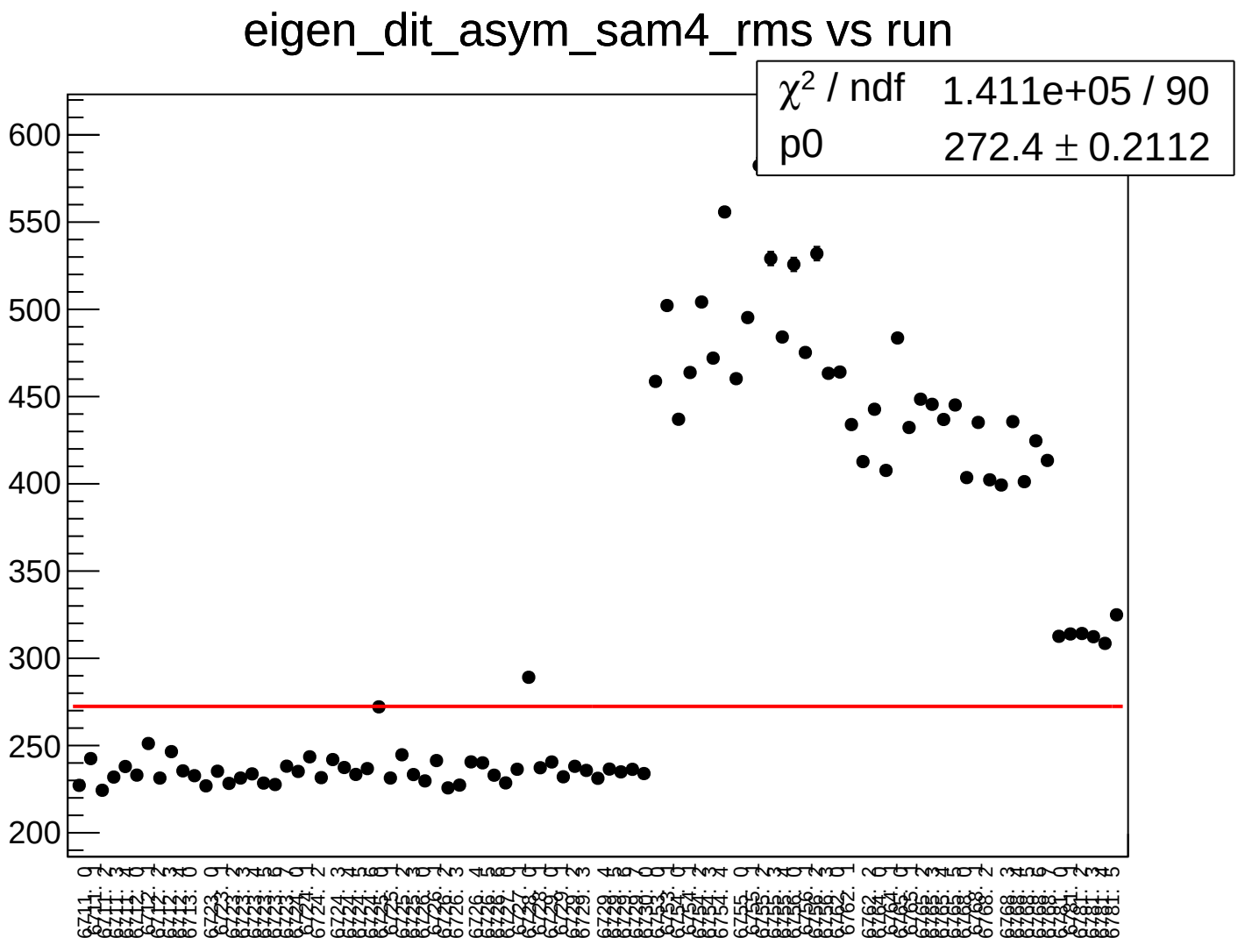

asym_sam4_dit_correction_mean vs run
χ² / ndf 96.5 / 90
p0 −737.2 ± 1988
pull
Entries 91
Mean −137.3
Std Dev 0

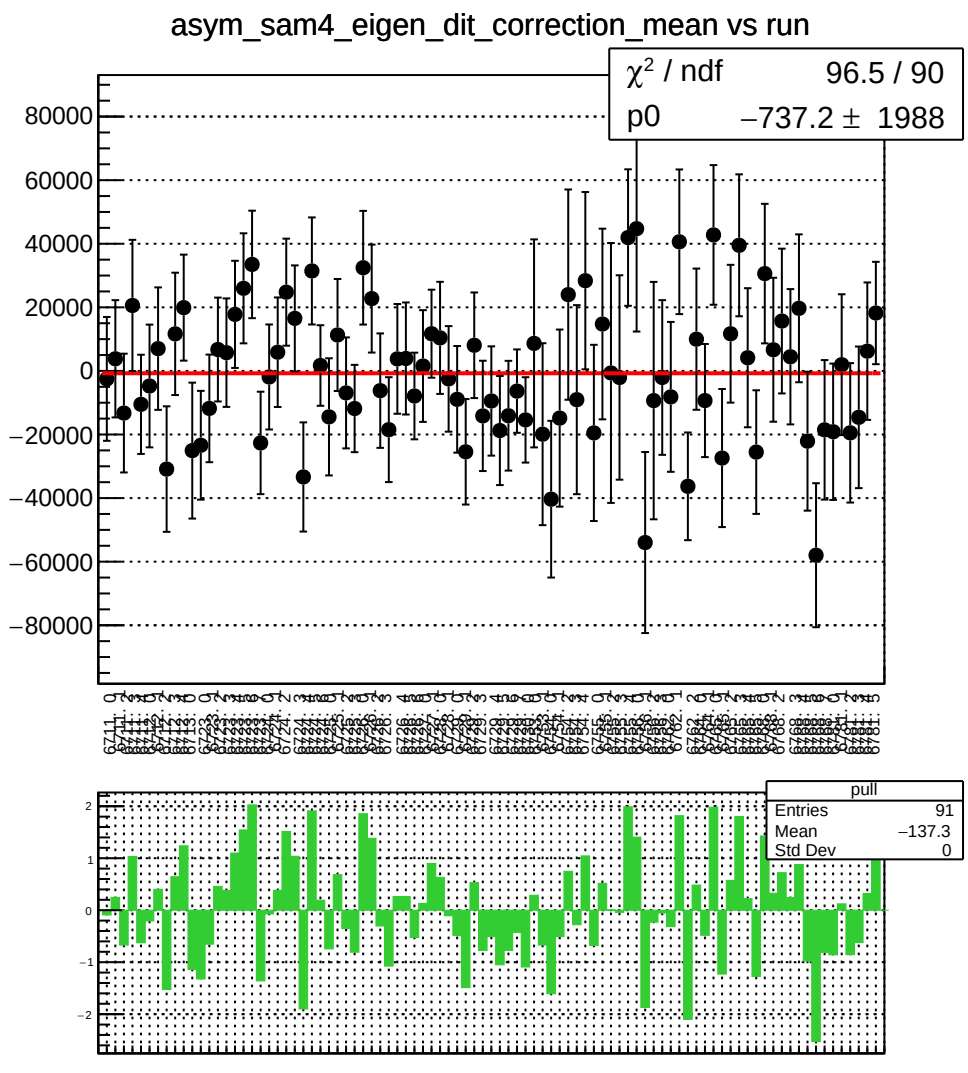

pull1D
Entries 91
Mean 0.008492
Std Dev 1.03

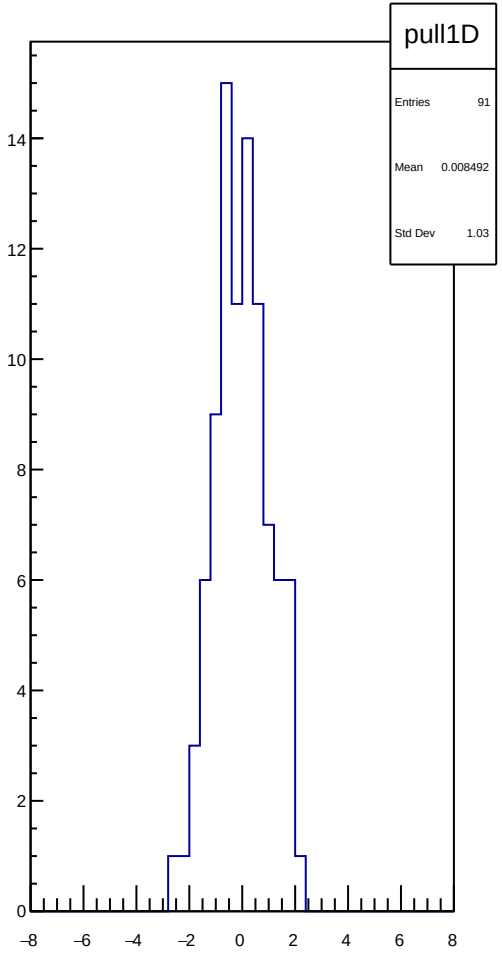

asym_sam4_dit_correction_rms vs run
χ² / ndf 6.532e+04 / 90
p0 1854 ± 1.406
4000
3500
3000
2500
2000
1500

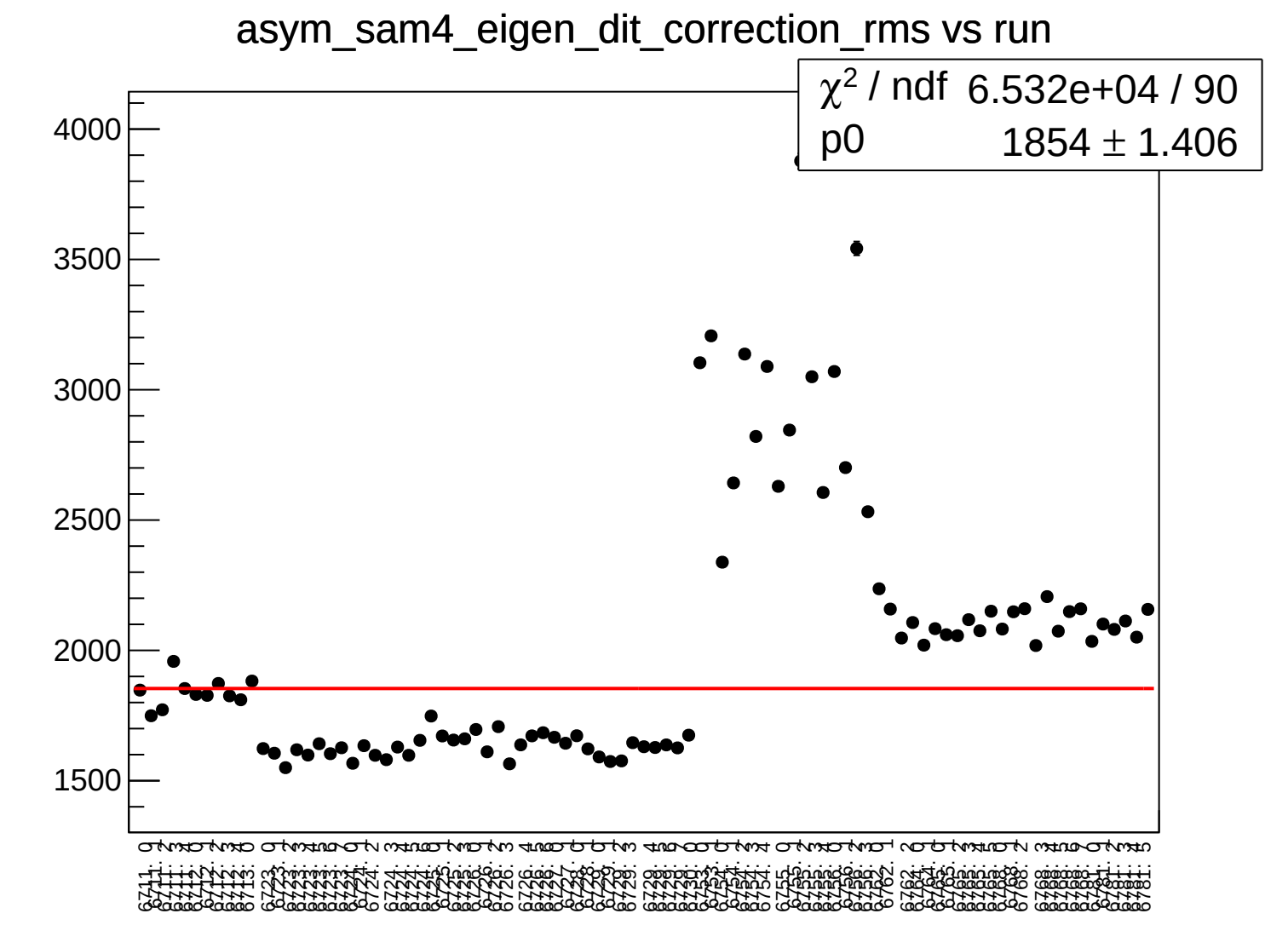

eigen_dit_asym_sam4_mean vs run
χ² / ndf 98.87 / 90
p0 −529.7 ± 298.8
pull
Entries 91
Mean 41.66
Std Dev 49.13

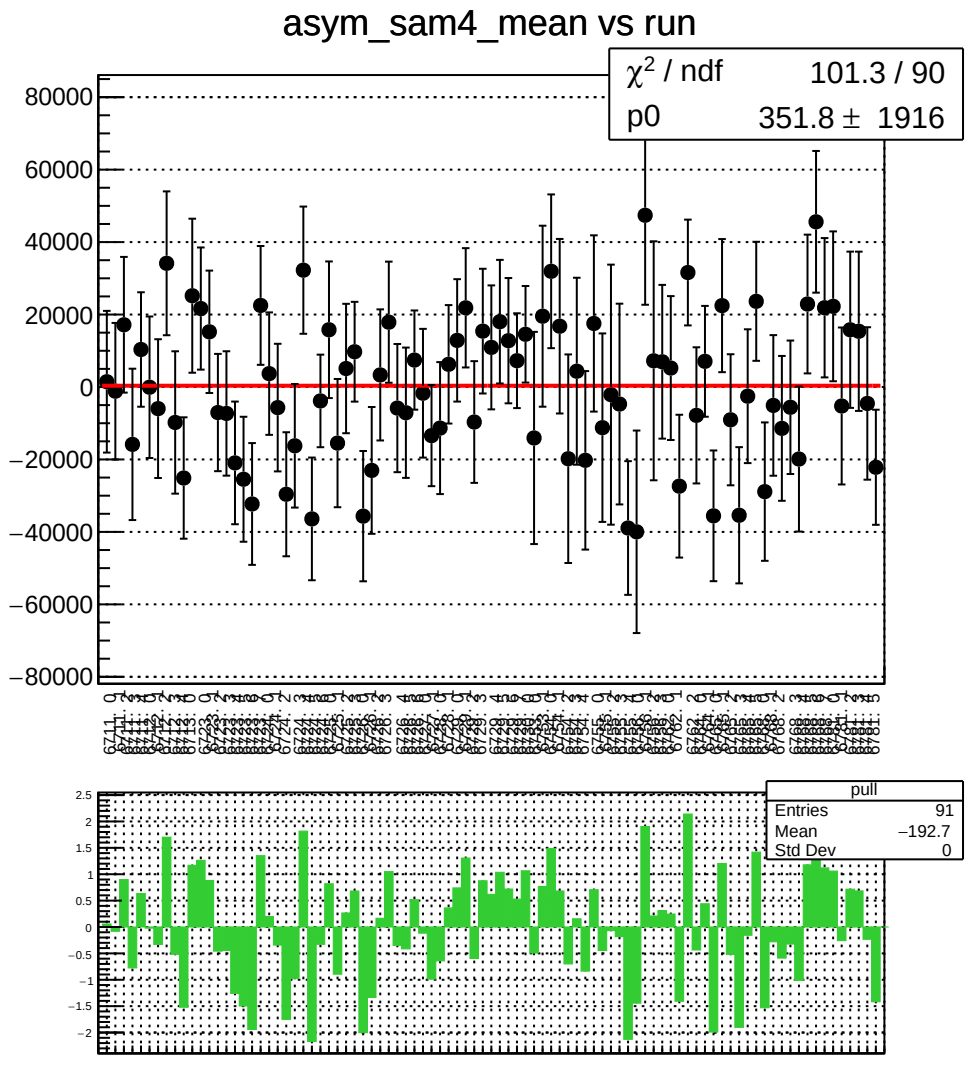

pull1D
Entries 91
Mean 0.03718
Std Dev 1.042

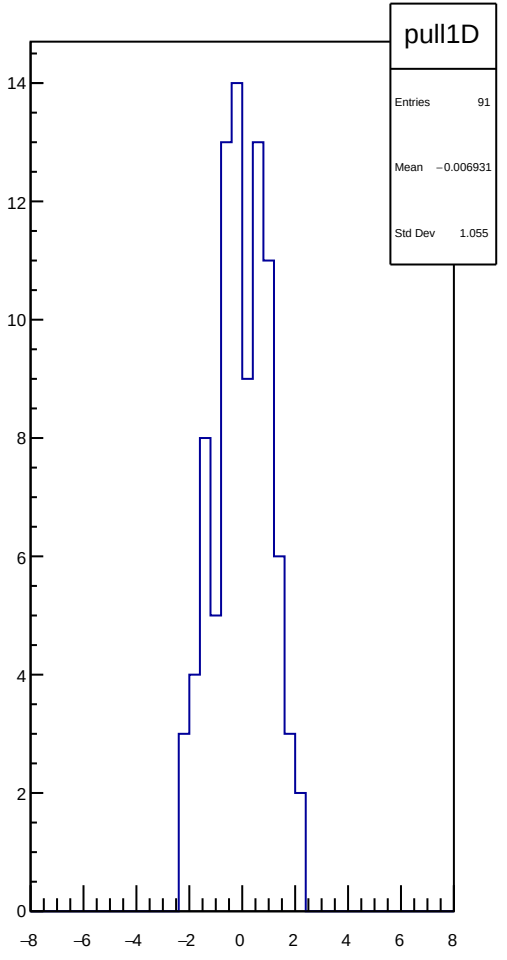

eigen_dit_asym_sam4_rms vs run
χ^2 / ndf 1.411e+05 / 90
p0 272.4 ± 0.2112
600
550
500
450
400
350
300
250
200

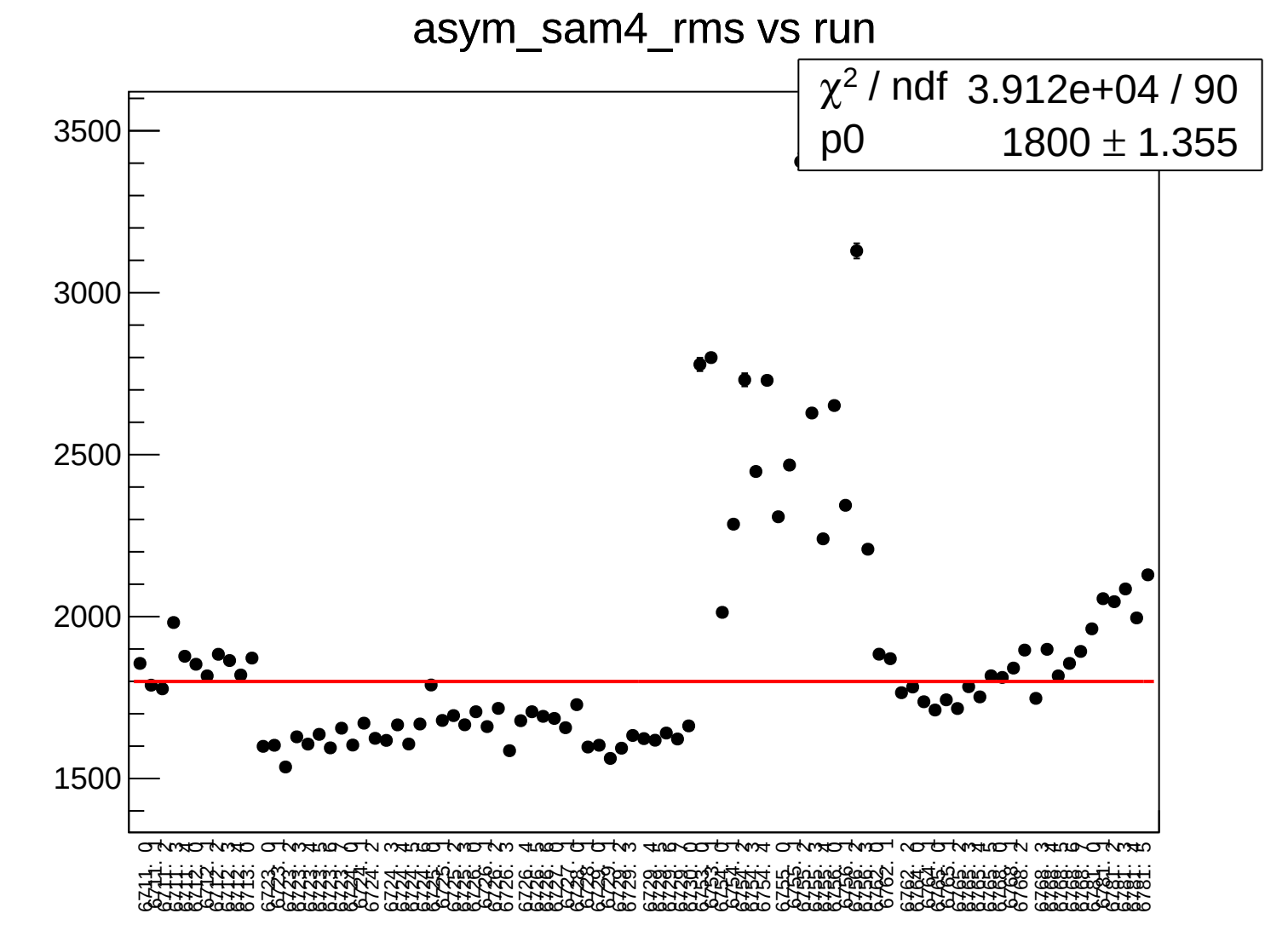

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 96.5 / 90
p0 −737.2 ± 1988
pull
Entries 91
Mean −137.3
Std Dev 0

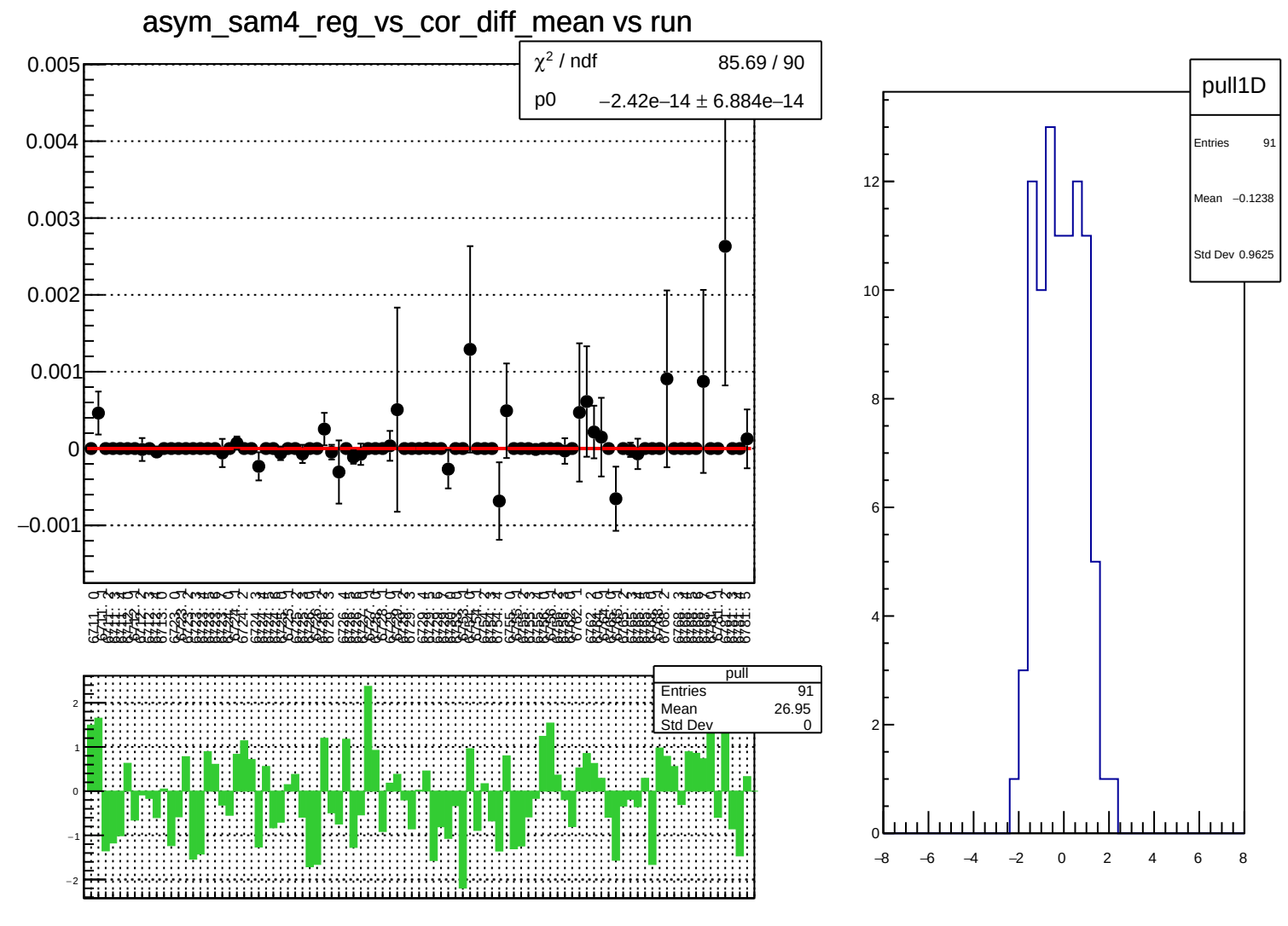

pull1D
Entries 91
Mean 0.008492
Std Dev 1.03

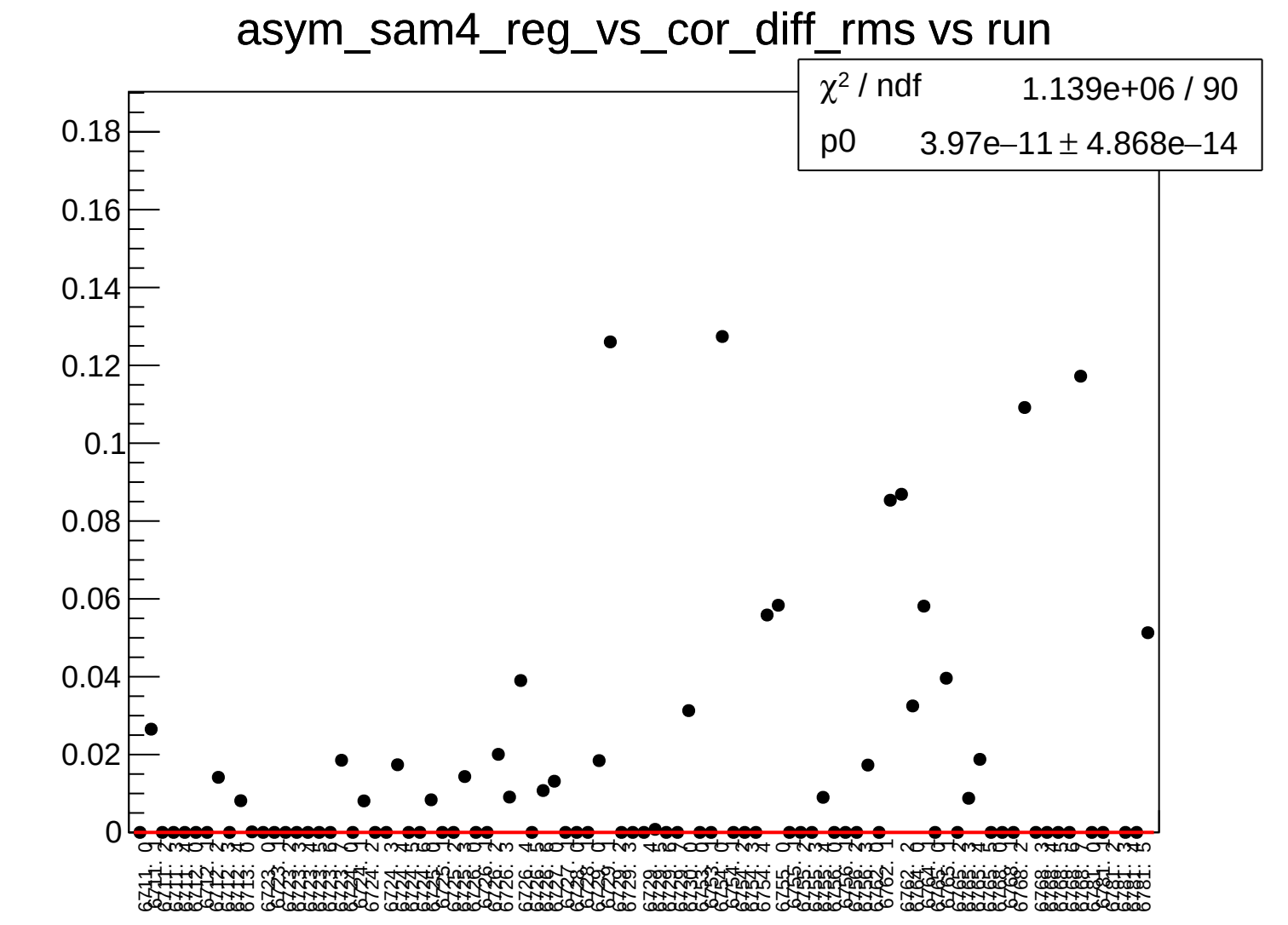

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 6.532e+04 / 90
p0 1854 ± 1.406
4000
3500
3000
2500
2000
1500

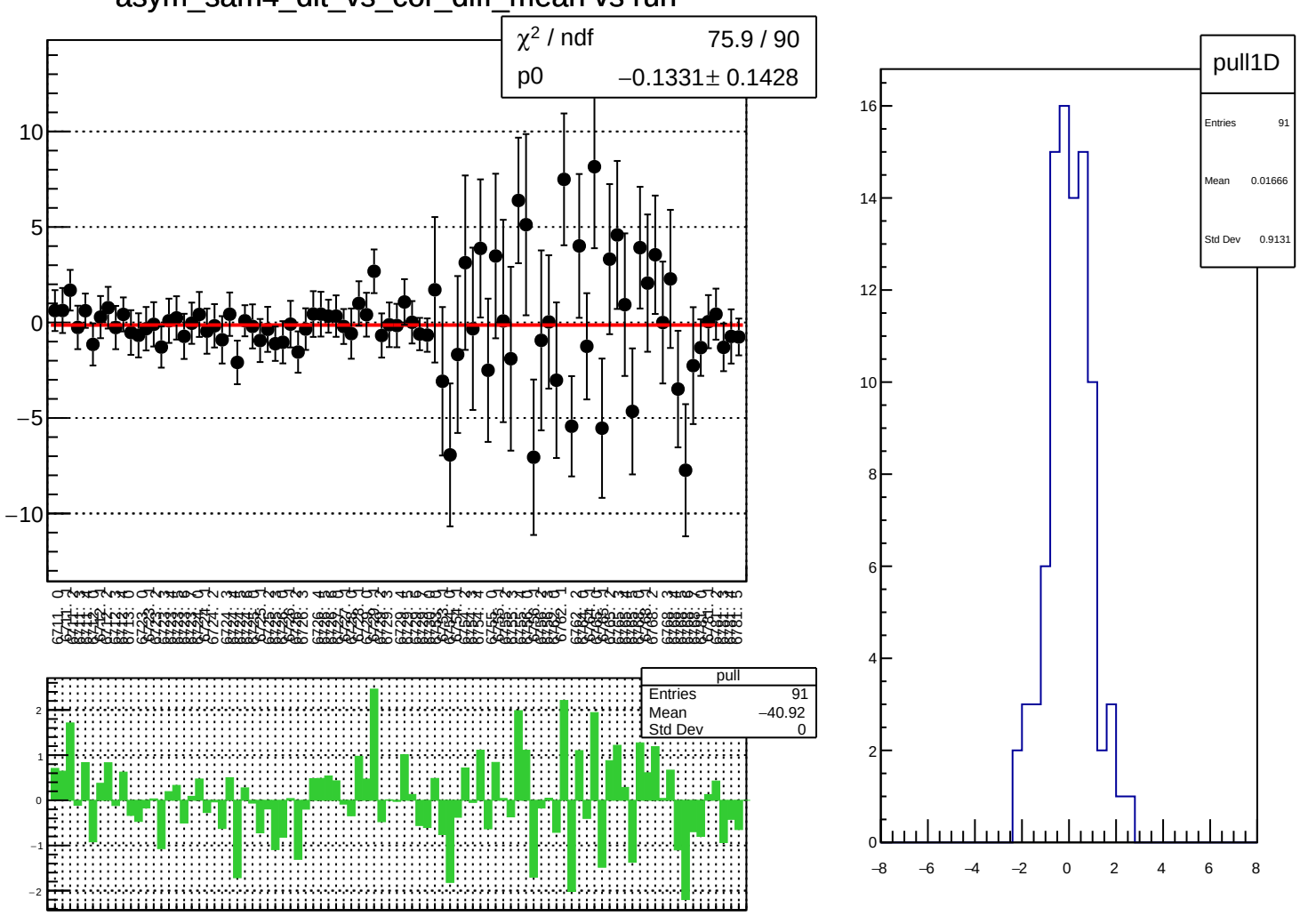

asym_sam4_mean vs run
χ² / ndf 101.3 / 90
p0 351.8 ± 1916
pull
Entries 91
Mean −192.7
Std Dev 0

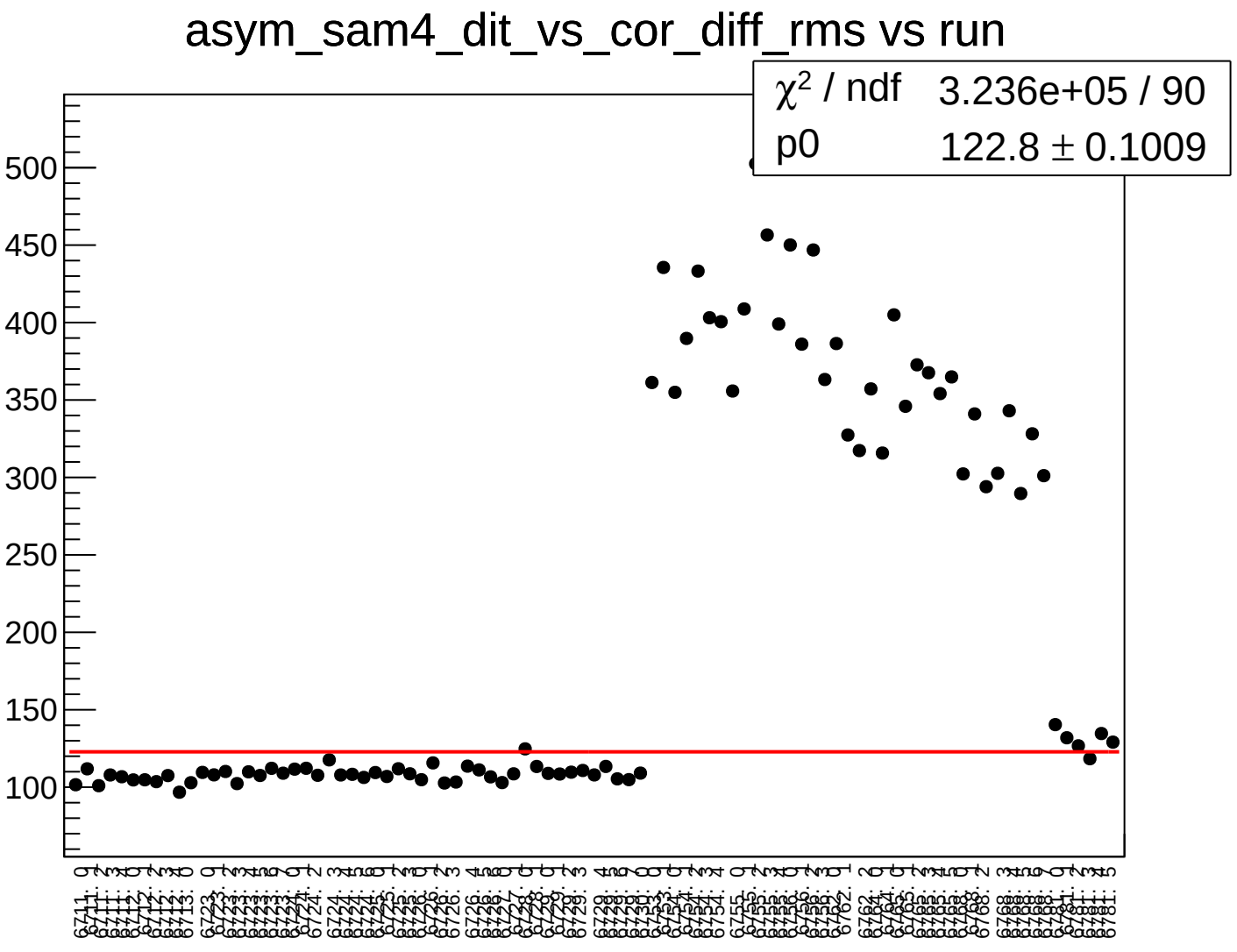

pull1D
Entries 91
Mean −0.006931
Std Dev 1.055

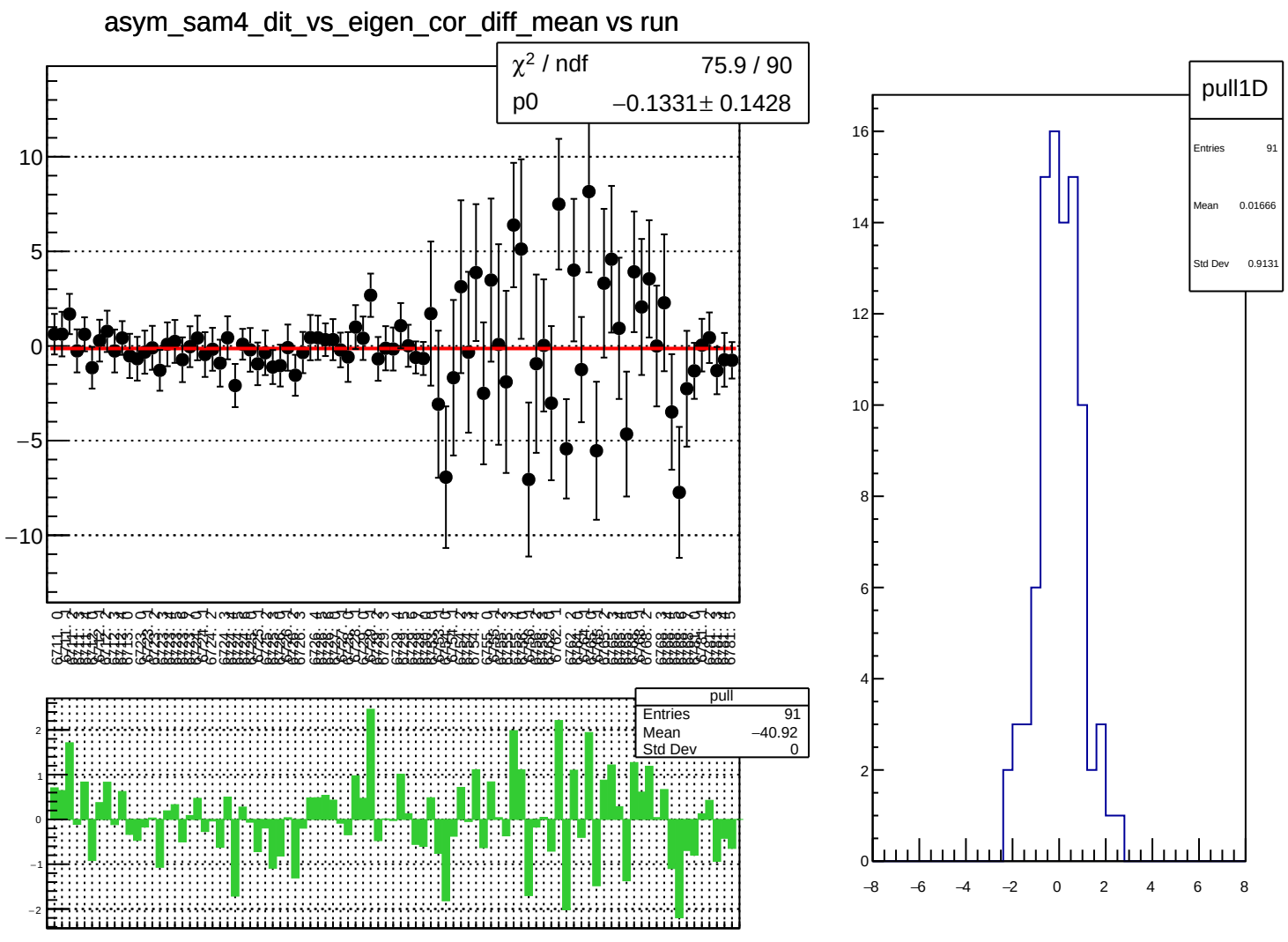

asym_sam4_rms vs run
χ^2 / ndf 3.912e+04 / 90
p0 1800 ± 1.355
3500
3000
2500
2000
1500

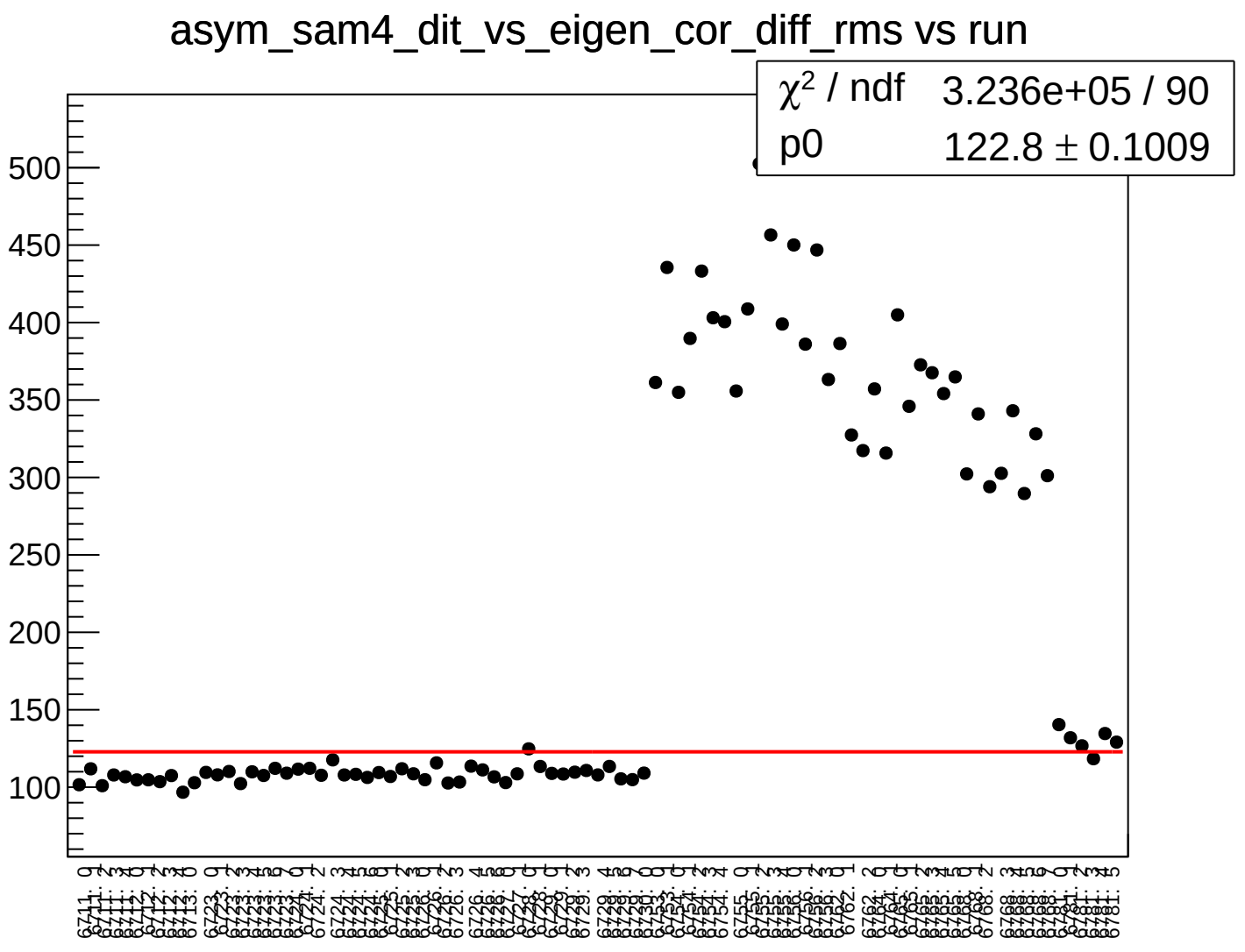

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 85.69 / 90
p0 −2.42e−14 ± 6.884e−14
0.005
0.004
0.003
0.002
0.001
0
−0.001
pull
Entries 91
Mean 26.95
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.1238
Std Dev 0.9625
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

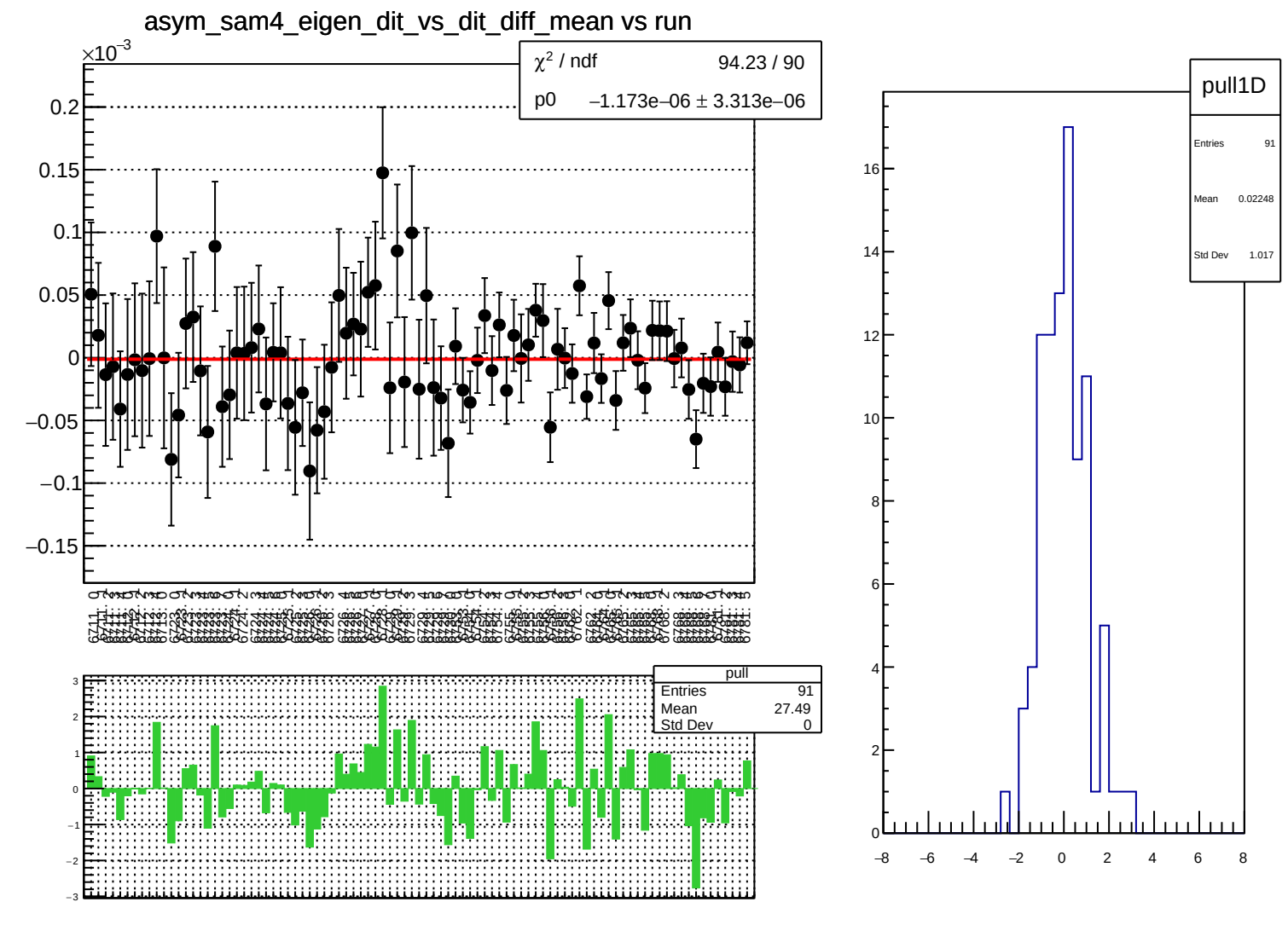

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.139e+06 / 90
p0 3.97e−11 ± 4.868e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

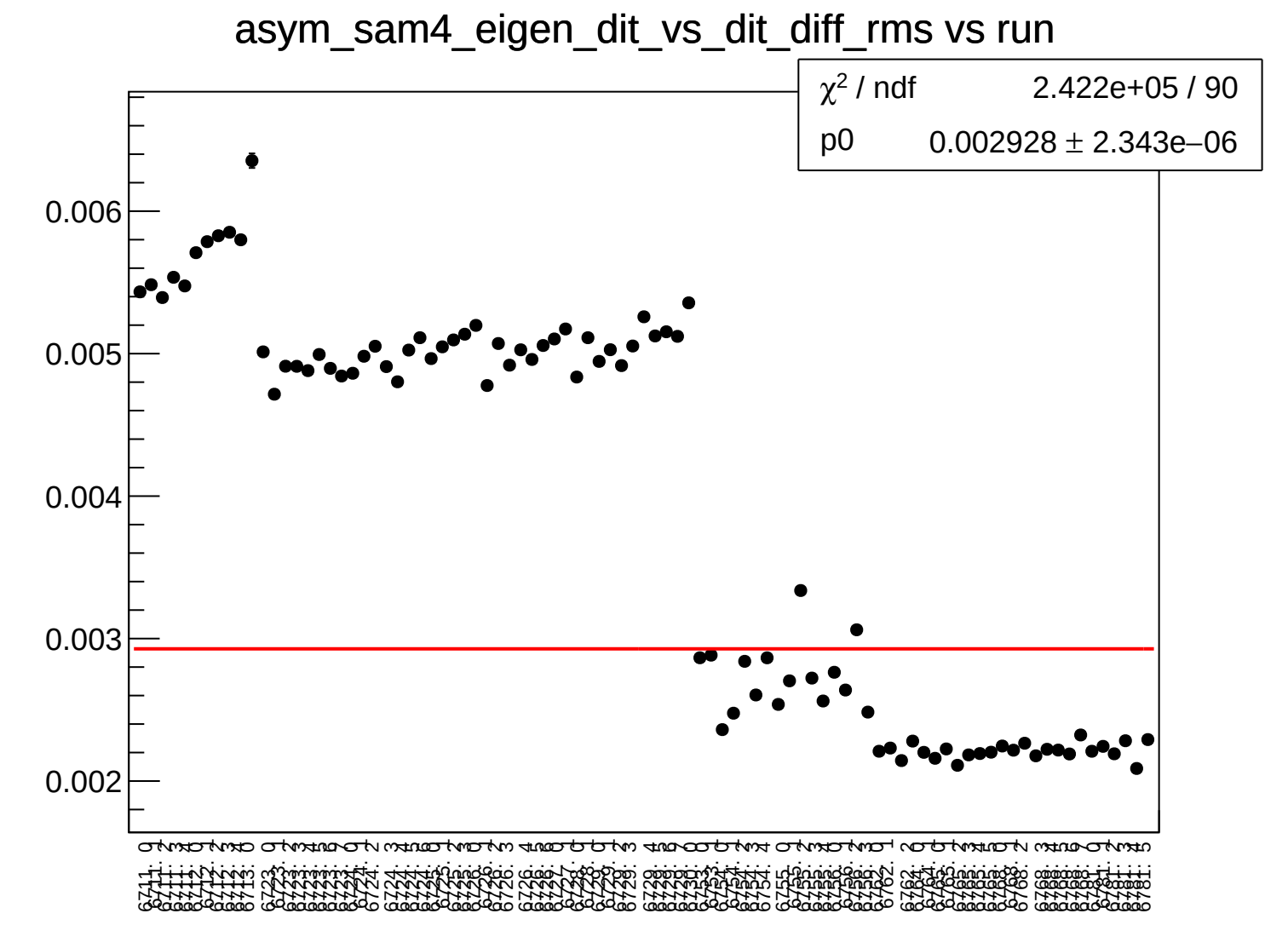

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 75.9 / 90
p0 −0.1331± 0.1428
pull
Entries 91
Mean −40.92
Std Dev 0
pull1D
Entries 91
Mean 0.01666
Std Dev 0.9131

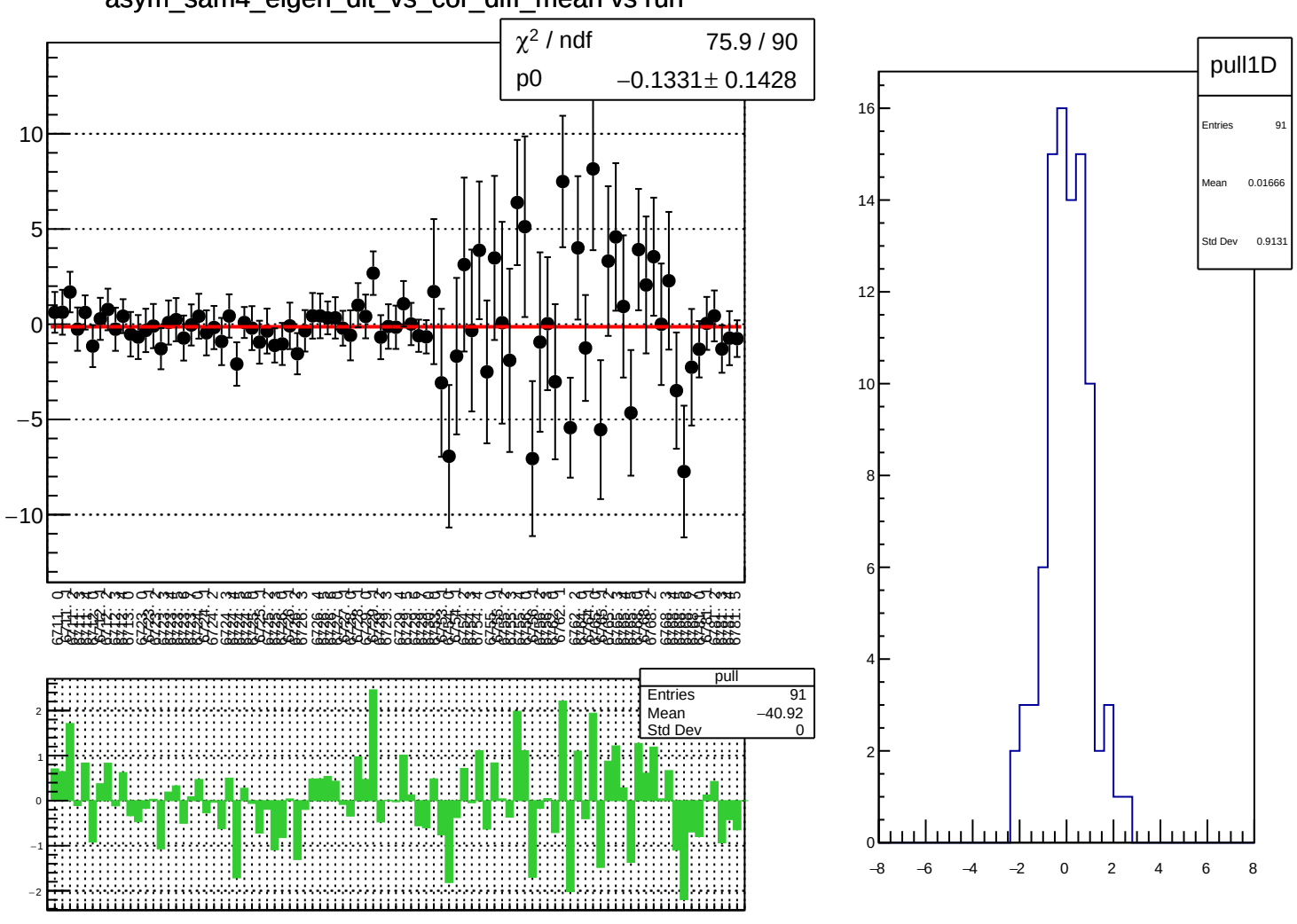

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 3.236e+05 / 90
p0 122.8 ± 0.1009
500
450
400
350
300
250
200
150
100

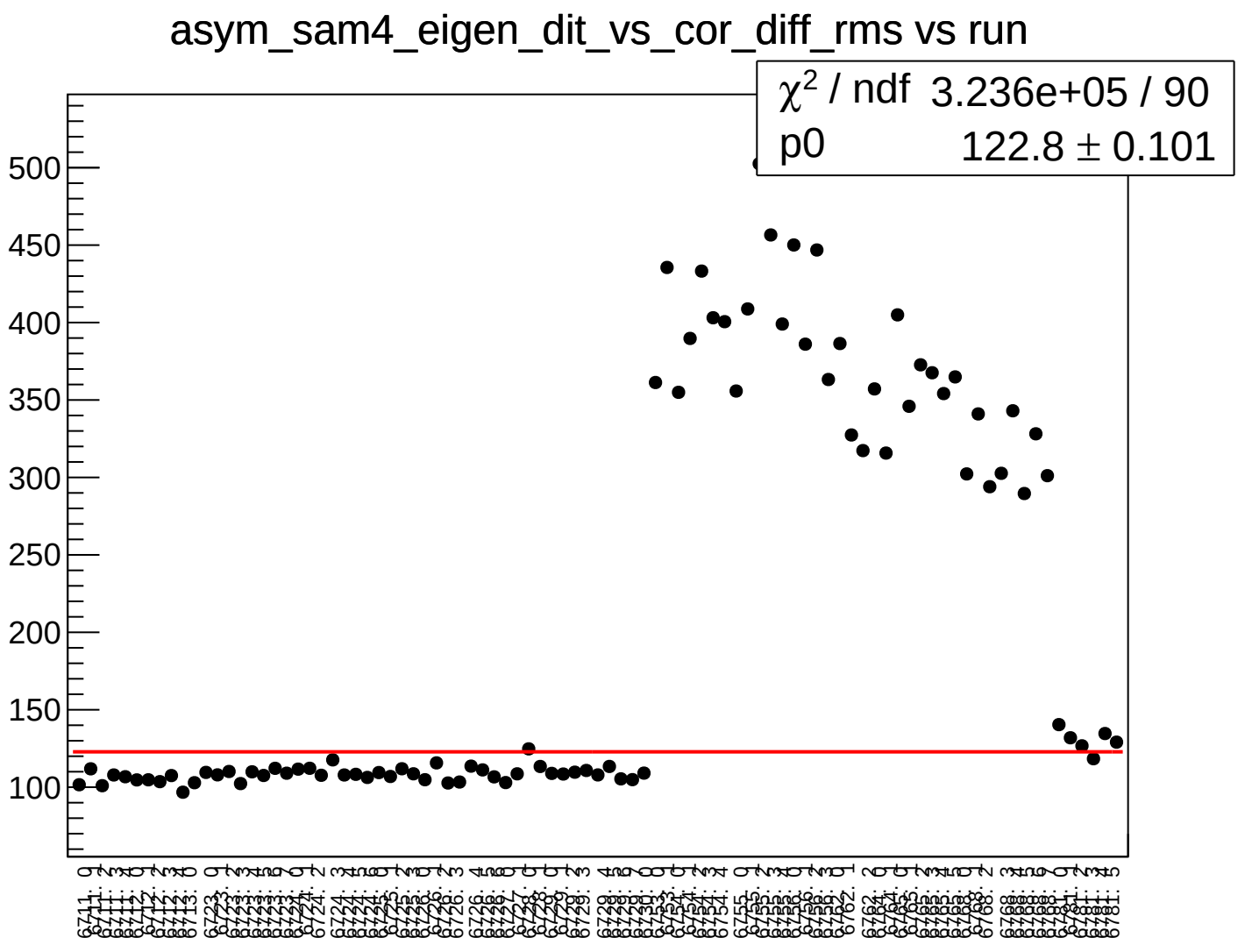

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.9 / 90
p0 −0.1331± 0.1428
pull
Entries 91
Mean −40.92
Std Dev 0
pull1D
Entries 91
Mean 0.01666
Std Dev 0.9131

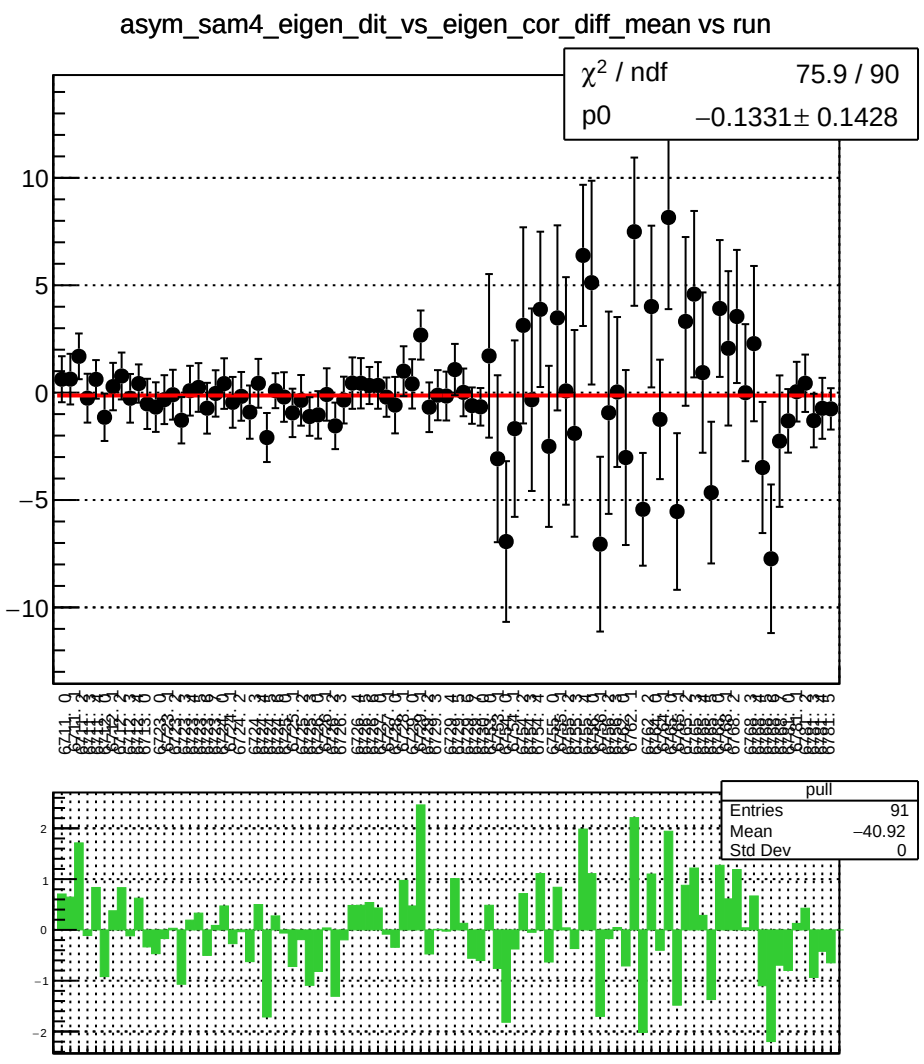

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.236e+05 / 90
p0 122.8 ± 0.1009
500
450
400
350
300
250
200
150
100

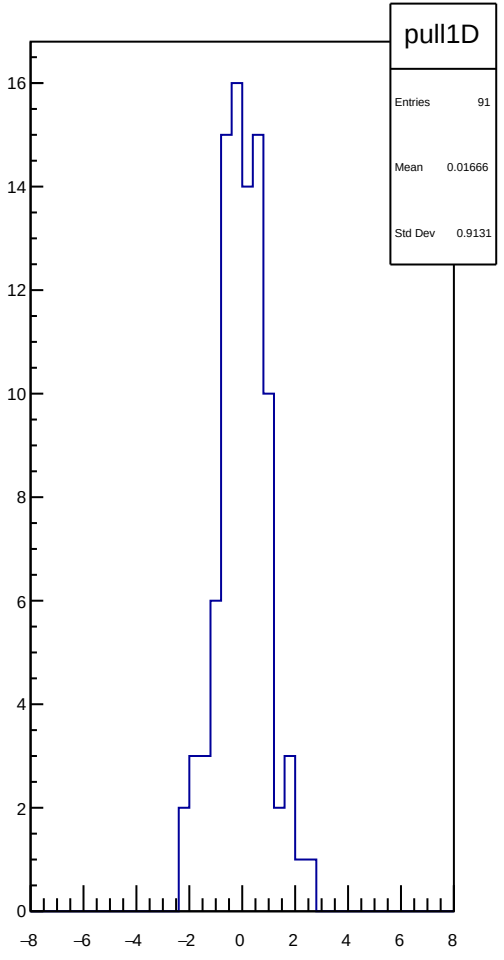

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.23 / 90
p0 −1.173e−06 ± 3.313e−06
pull
Entries 91
Mean 27.49
Std Dev 0
pull1D
Entries 91
Mean 0.02248
Std Dev 1.017

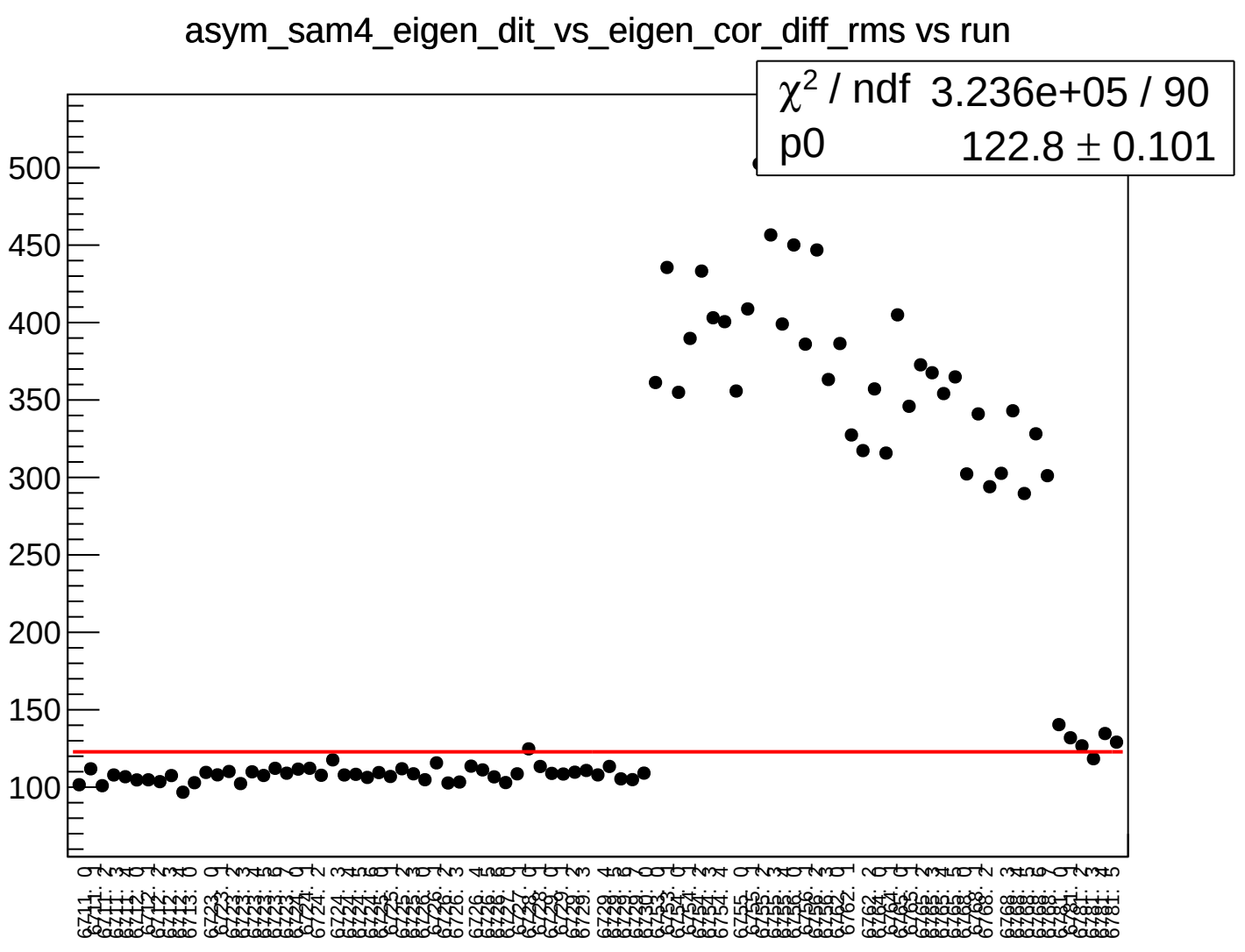

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.422e+05 / 90
p0 0.002928 ± 2.343e−06
0.006
0.005
0.004
0.003
0.002

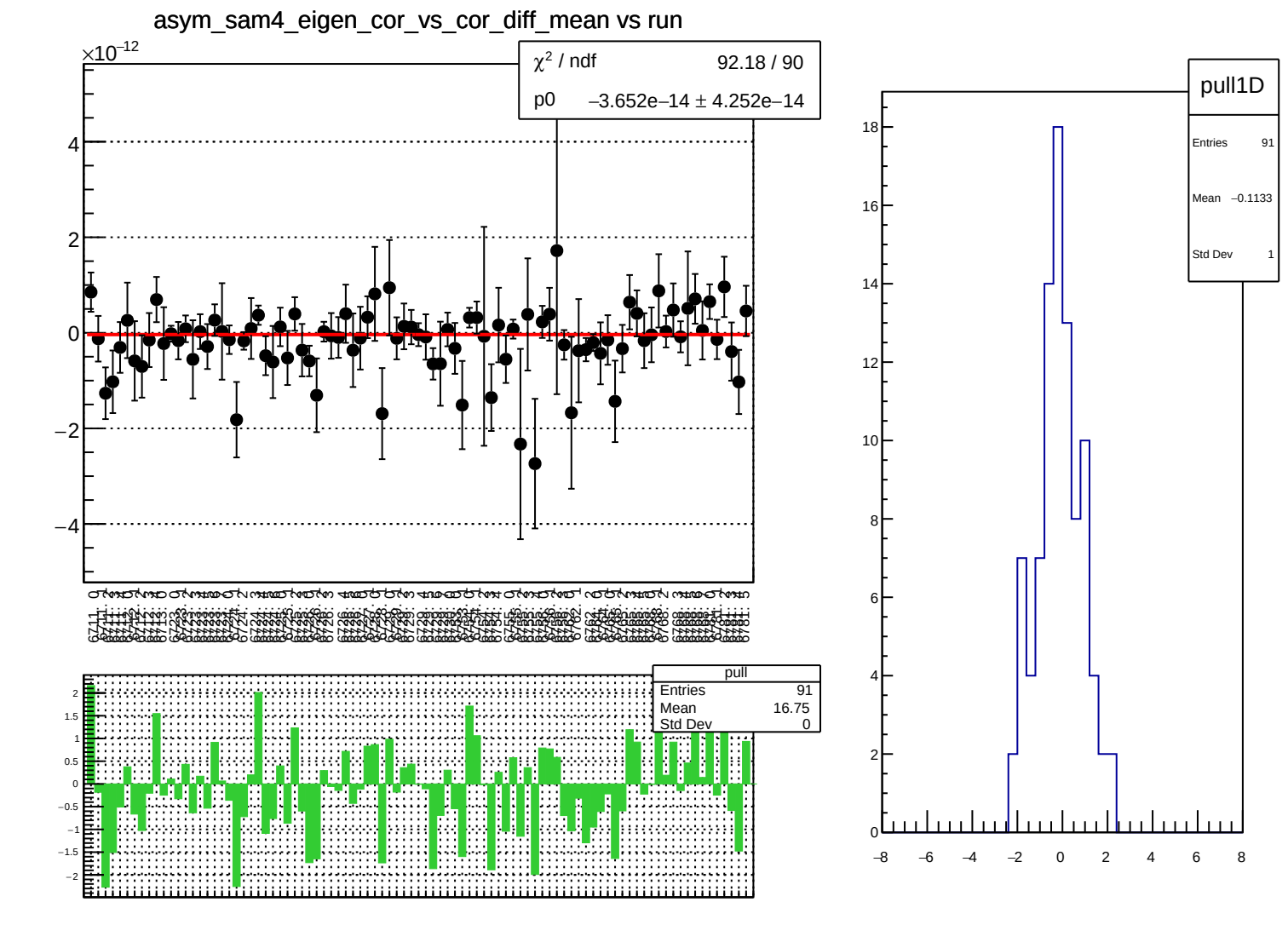

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.9 / 90
p0 −0.1331± 0.1428
pull
Entries 91
Mean −40.92
Std Dev 0
pull1D
Entries 91
Mean 0.01666
Std Dev 0.9131

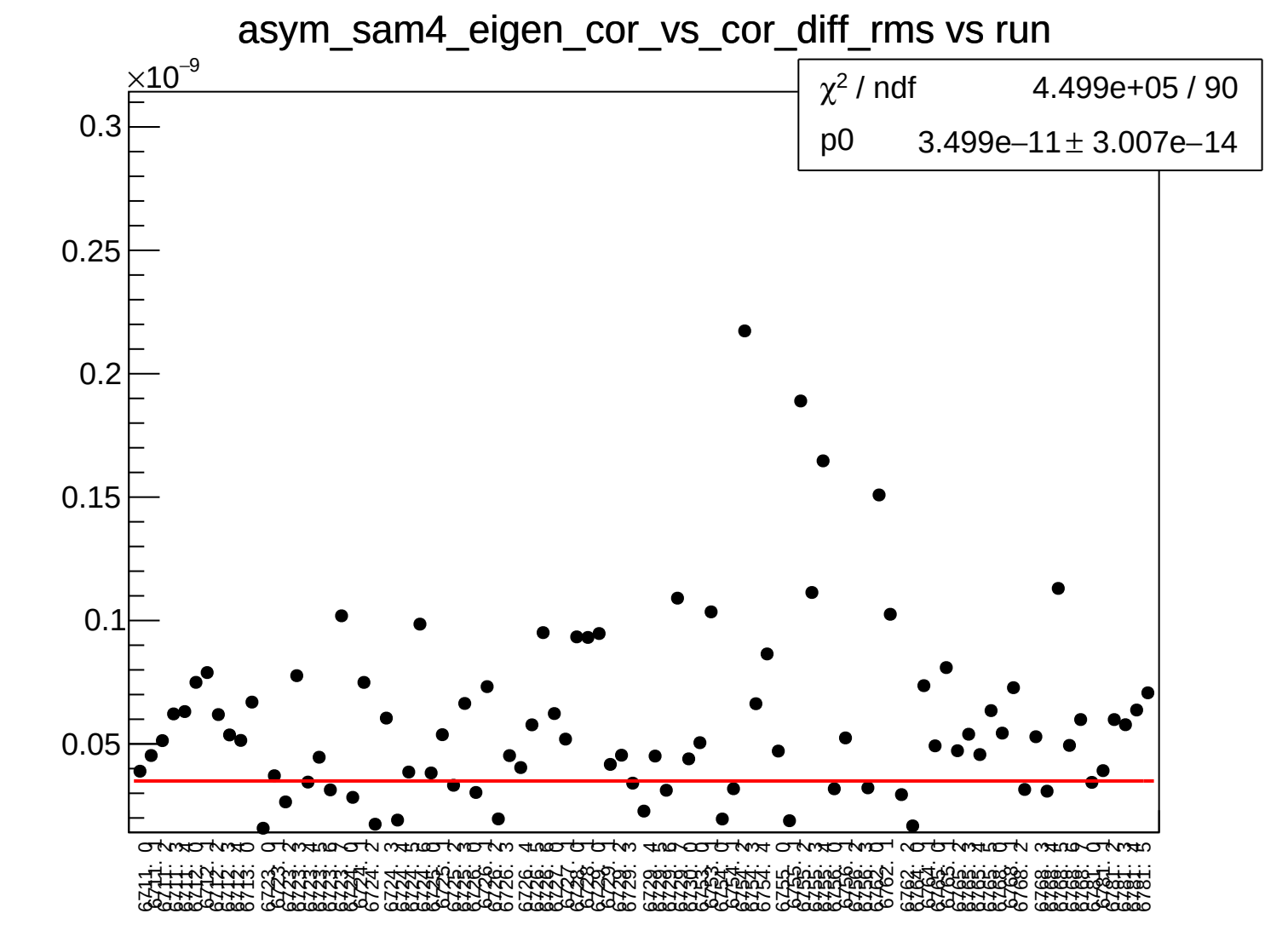

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.236e+05 / 90
p0 122.8 ± 0.101
500
450
400
350
300
250
200
150
100

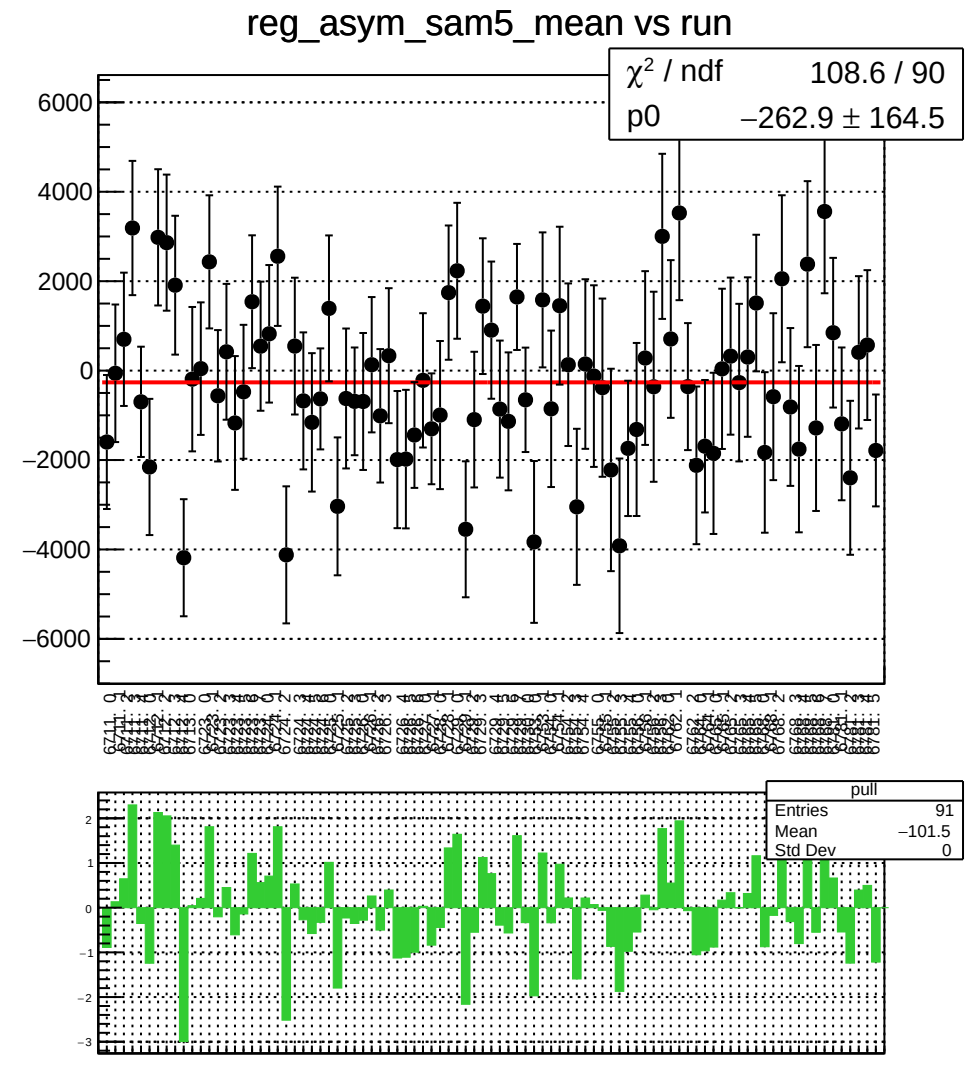

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.9 / 90
p0 −0.1331± 0.1428
pull
Entries 91
Mean −40.92
Std Dev 0

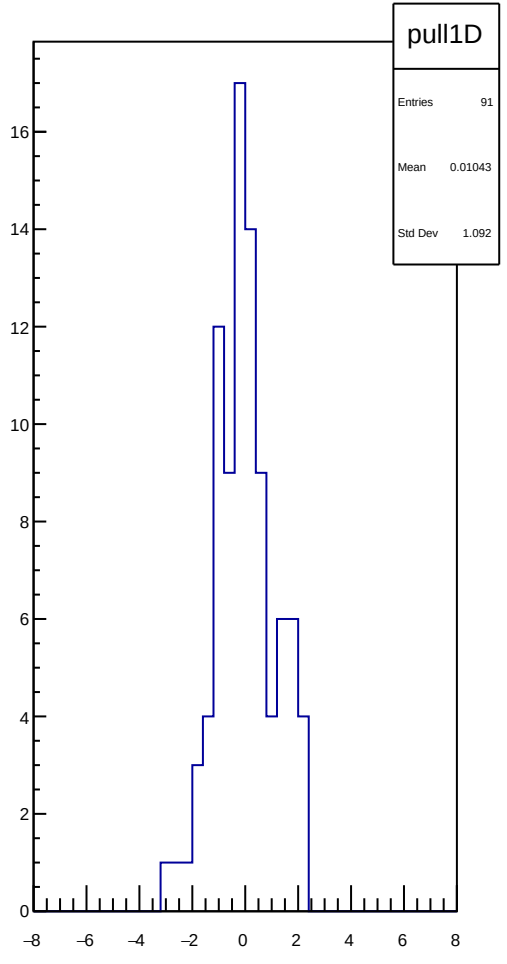

pull1D
Entries 91
Mean 0.01666
Std Dev 0.9131

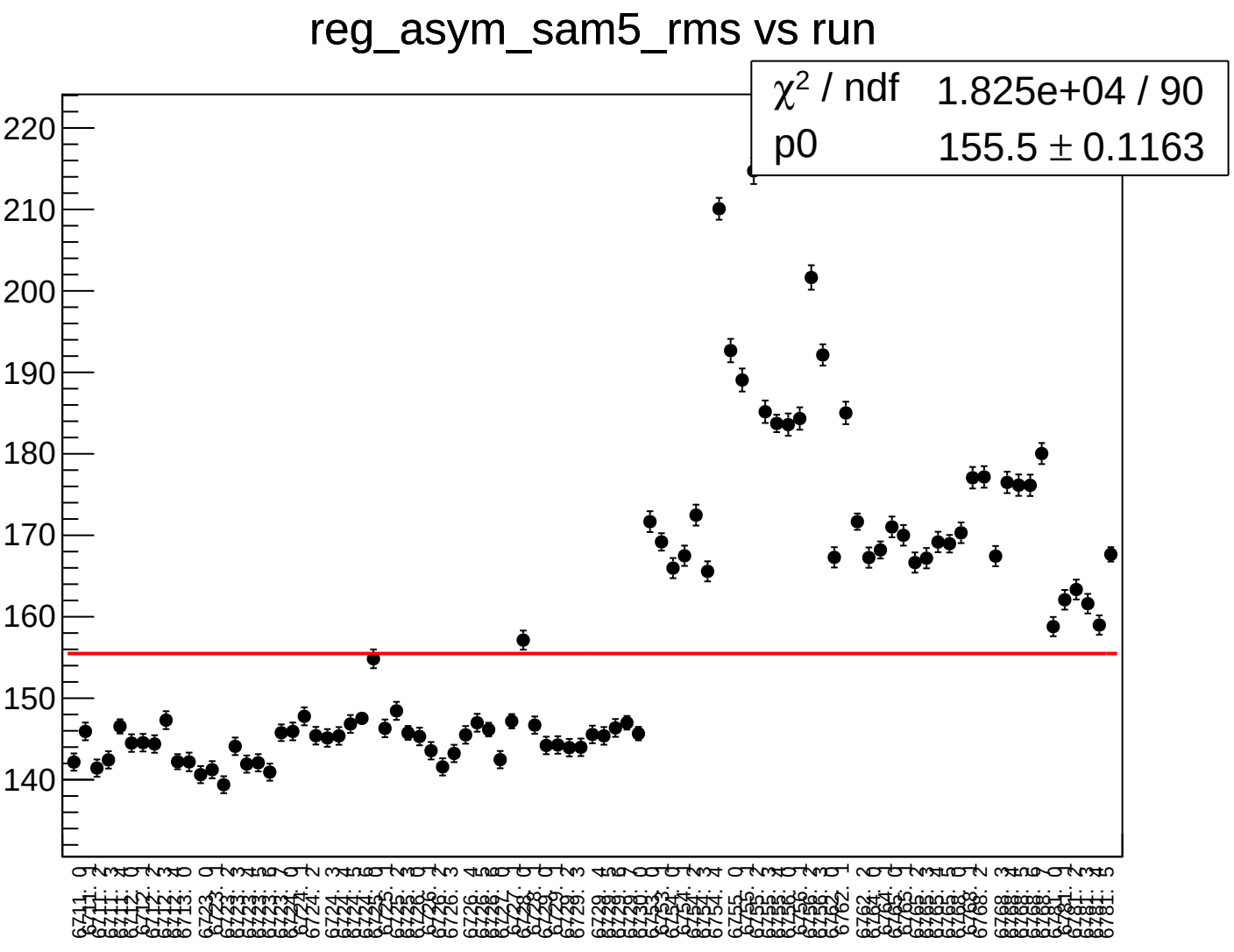

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.236e+05 / 90
p0 122.8 ± 0.101
500
450
400
350
300
250
200
150
100

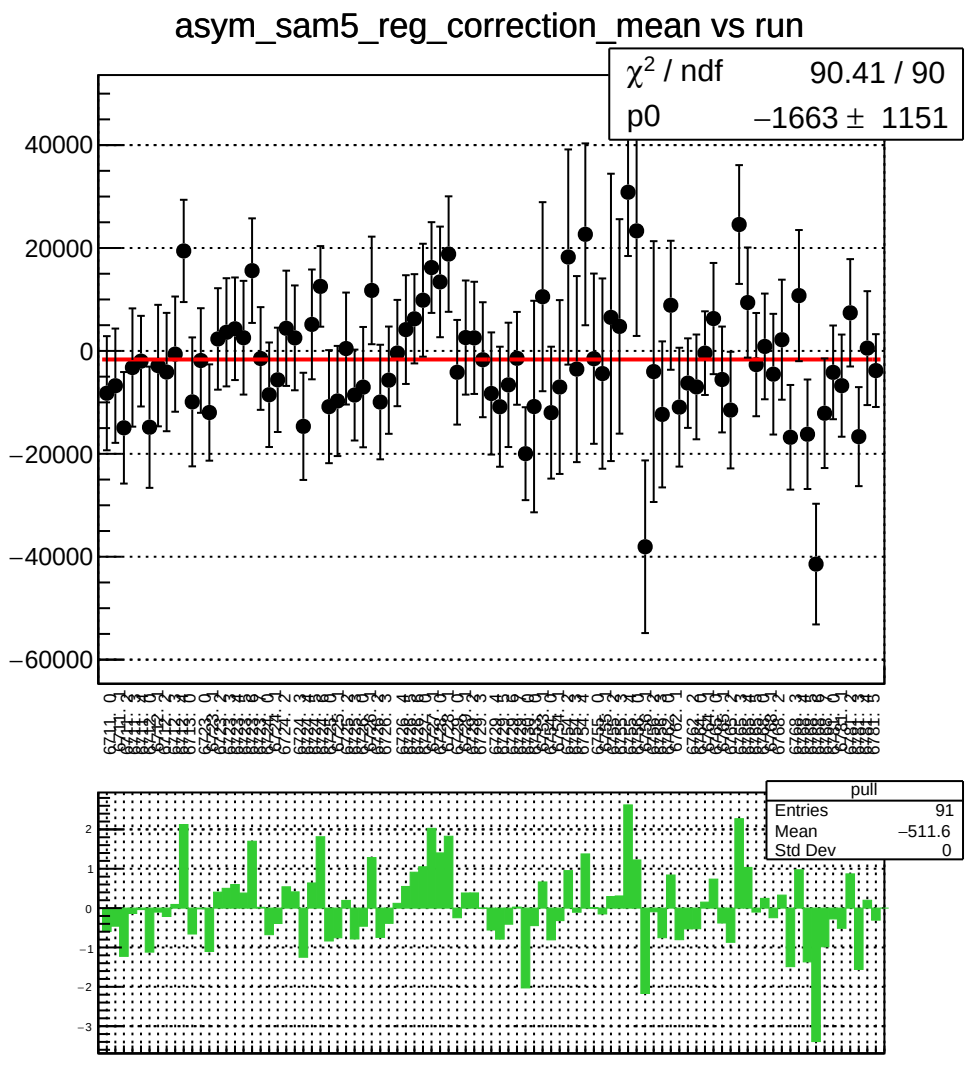

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.18 / 90
p0 −3.652e−14 ± 4.252e−14
pull
Entries 91
Mean 16.75
Std Dev 0
pull1D
Entries 91
Mean −0.1133
Std Dev 1

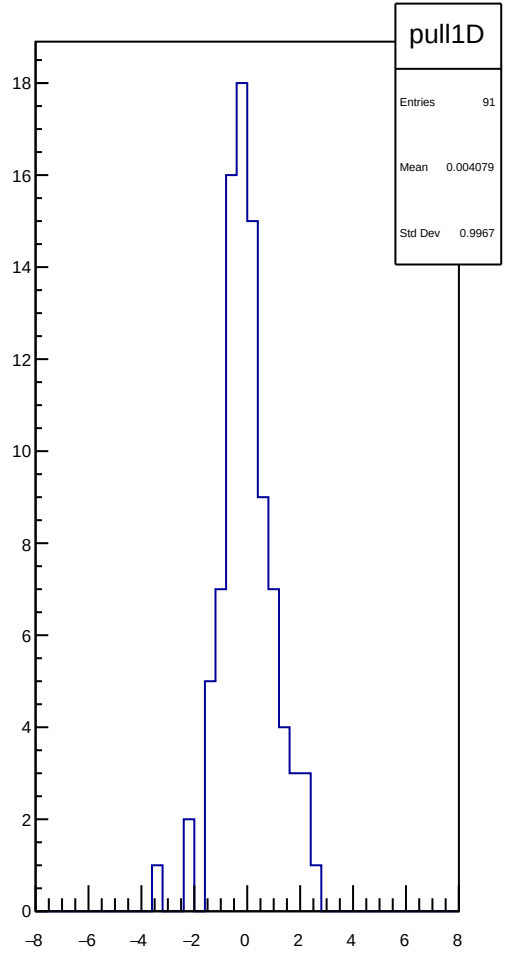

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.499e+05 / 90
p0 3.499e−11 ± 3.007e−14
0.3
0.25
0.2
0.15
0.1
0.05

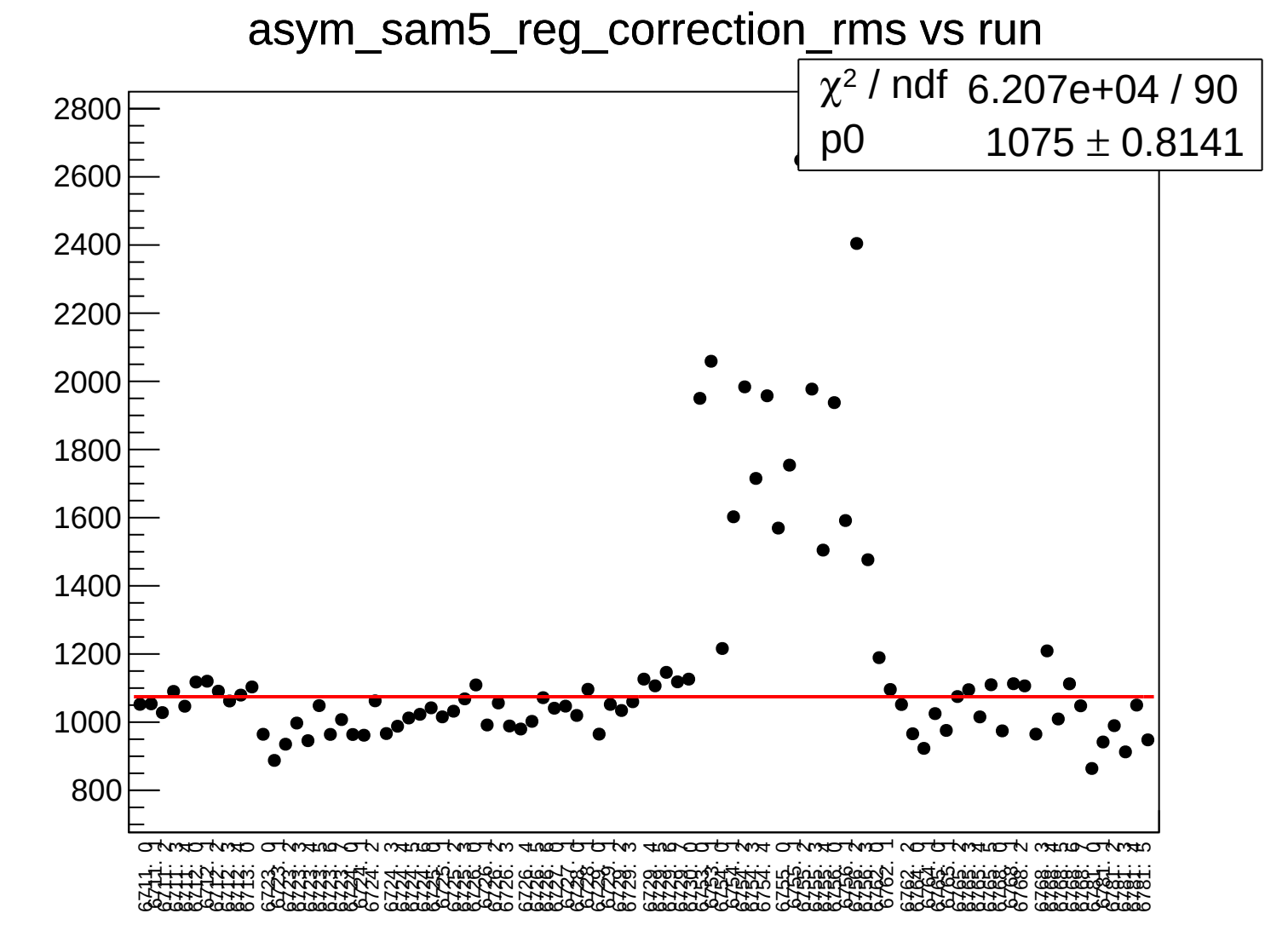

reg_asym_sam5_mean vs run
χ² / ndf 108.6 / 90
p0 −262.9 ± 164.5
pull
Entries 91
Mean −101.5
Std Dev 0

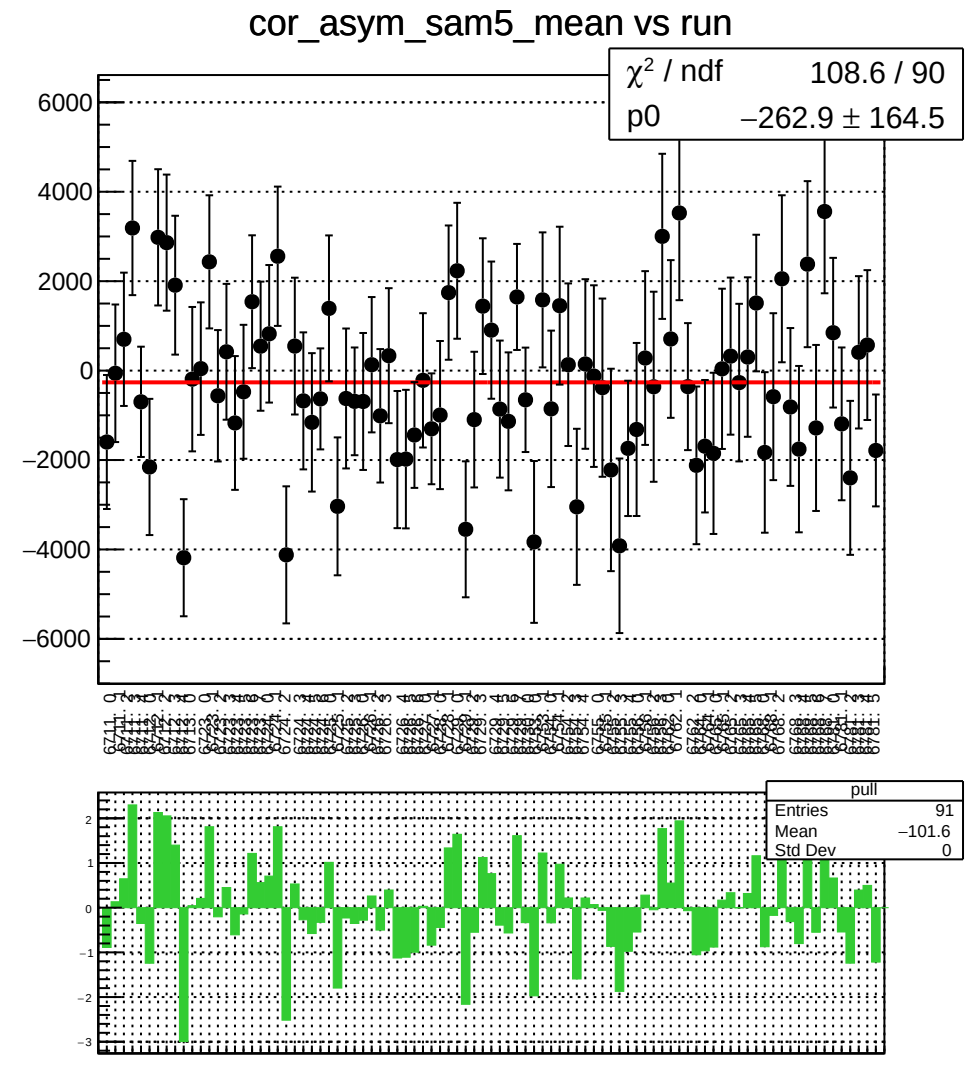

pull1D
Entries 91
Mean 0.01043
Std Dev 1.092

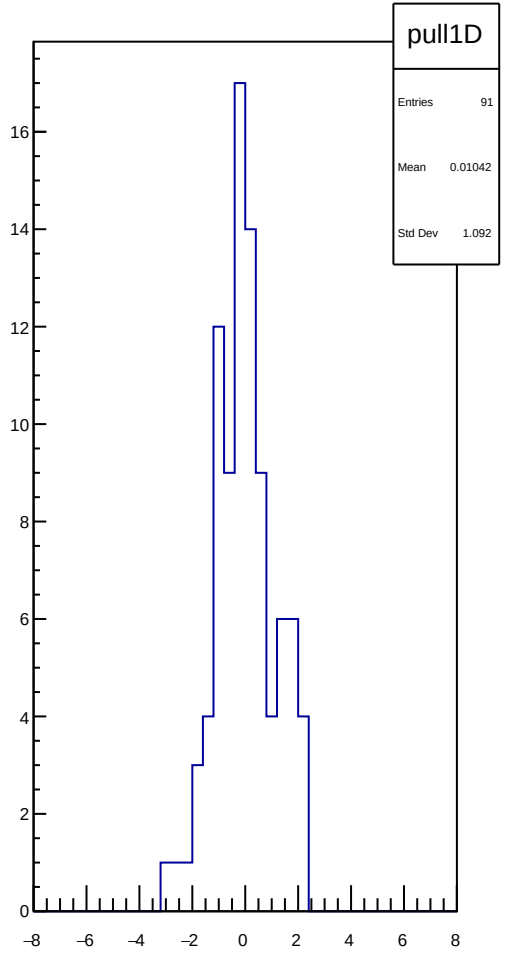

reg_asym_sam5_rms vs run
χ² / ndf 1.825e+04 / 90
p0 155.5 ± 0.1163
220
210
200
190
180
170
160
150
140

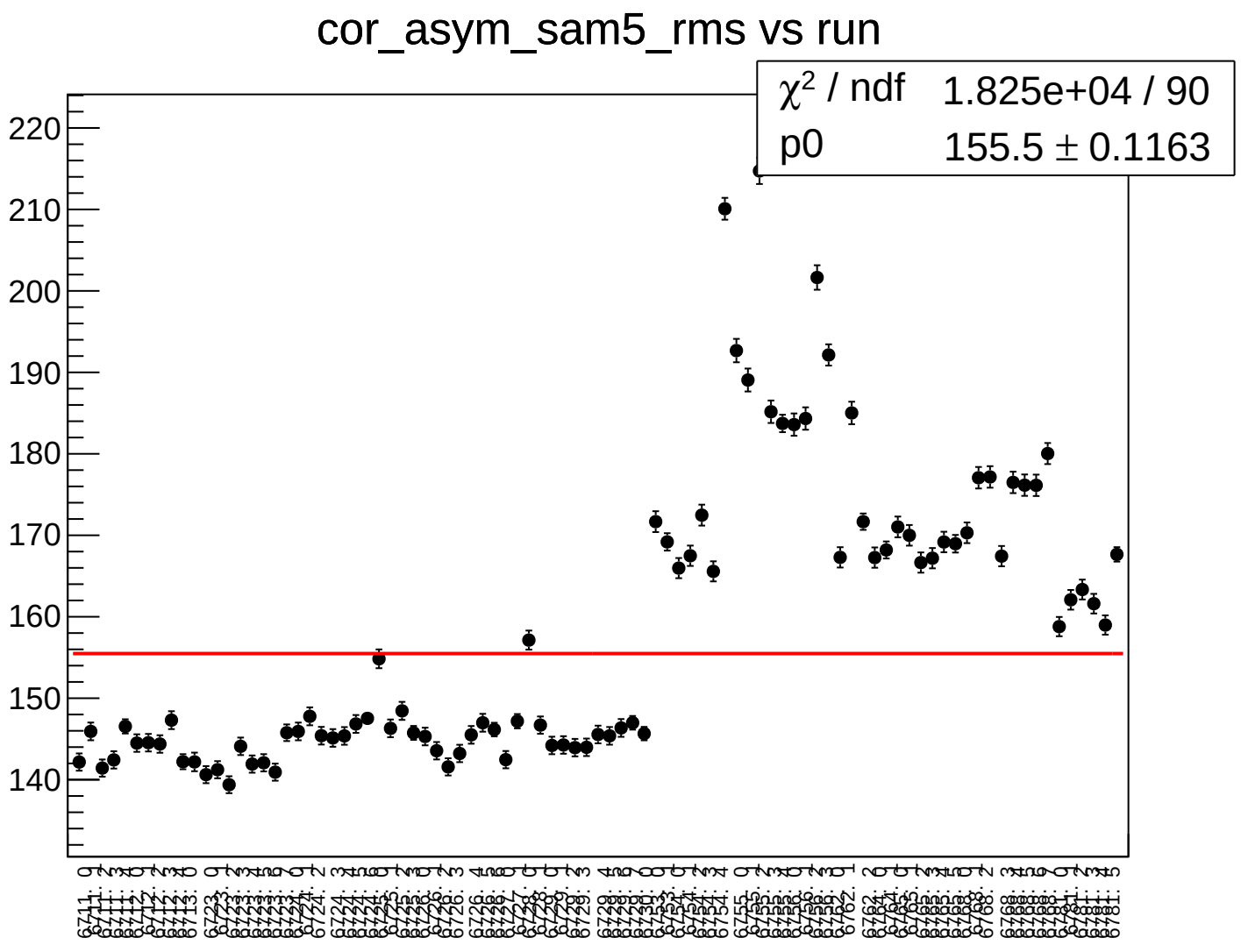

asym_sam5_reg_correction_mean vs run
χ² / ndf 90.41 / 90
p0 −1663 ± 1151
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −511.6
Std Dev 0
2
1
0
−1
−2
−3

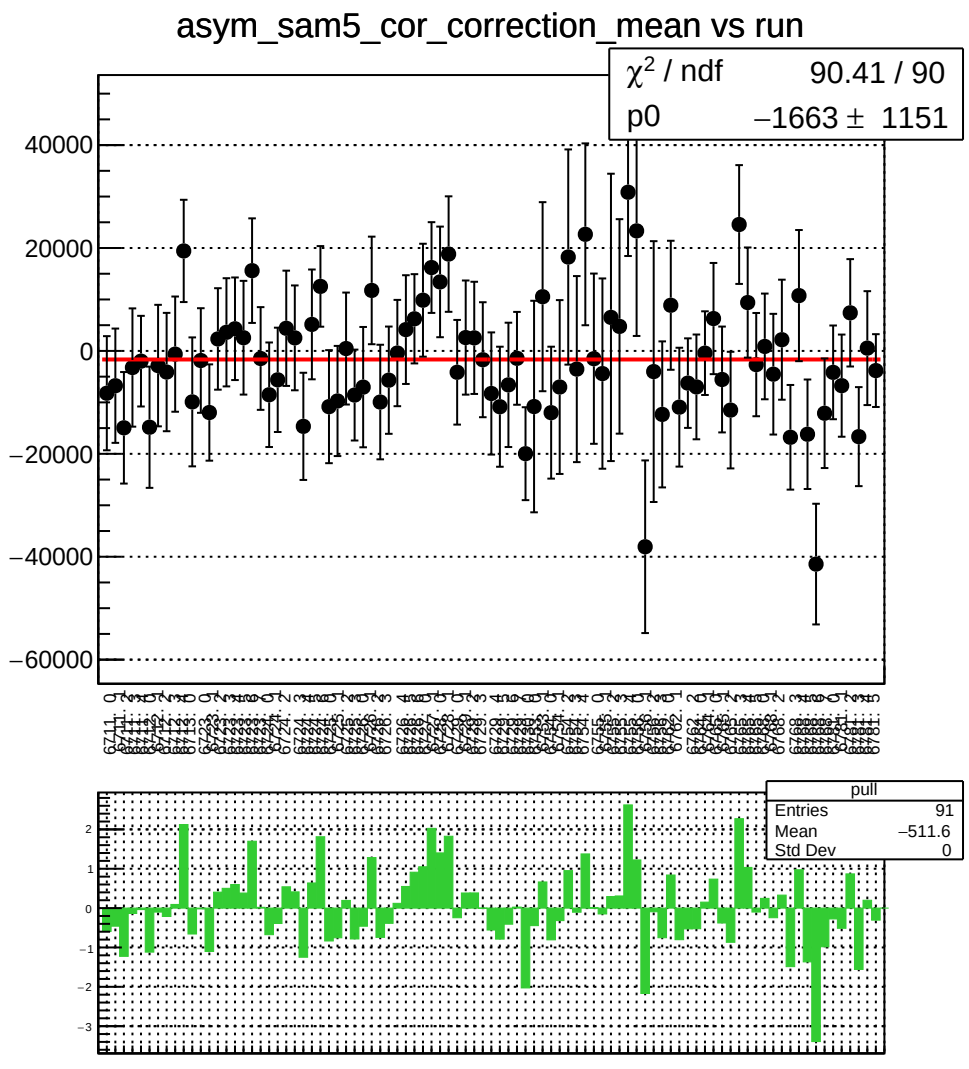

pull1D
Entries 91
Mean 0.004079
Std Dev 0.9967
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

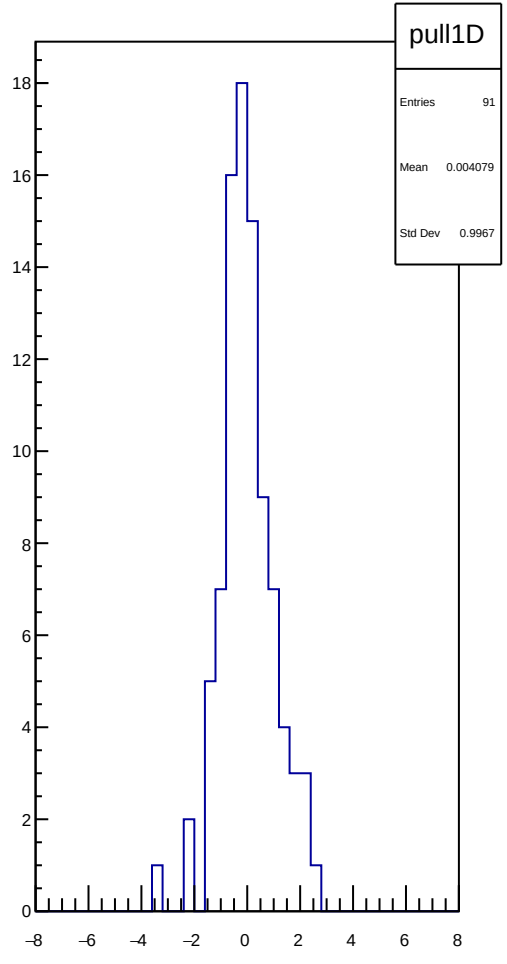

asym_sam5_reg_correction_rms vs run
χ² / ndf 6.207e+04 / 90
p0 1075 ± 0.8141
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

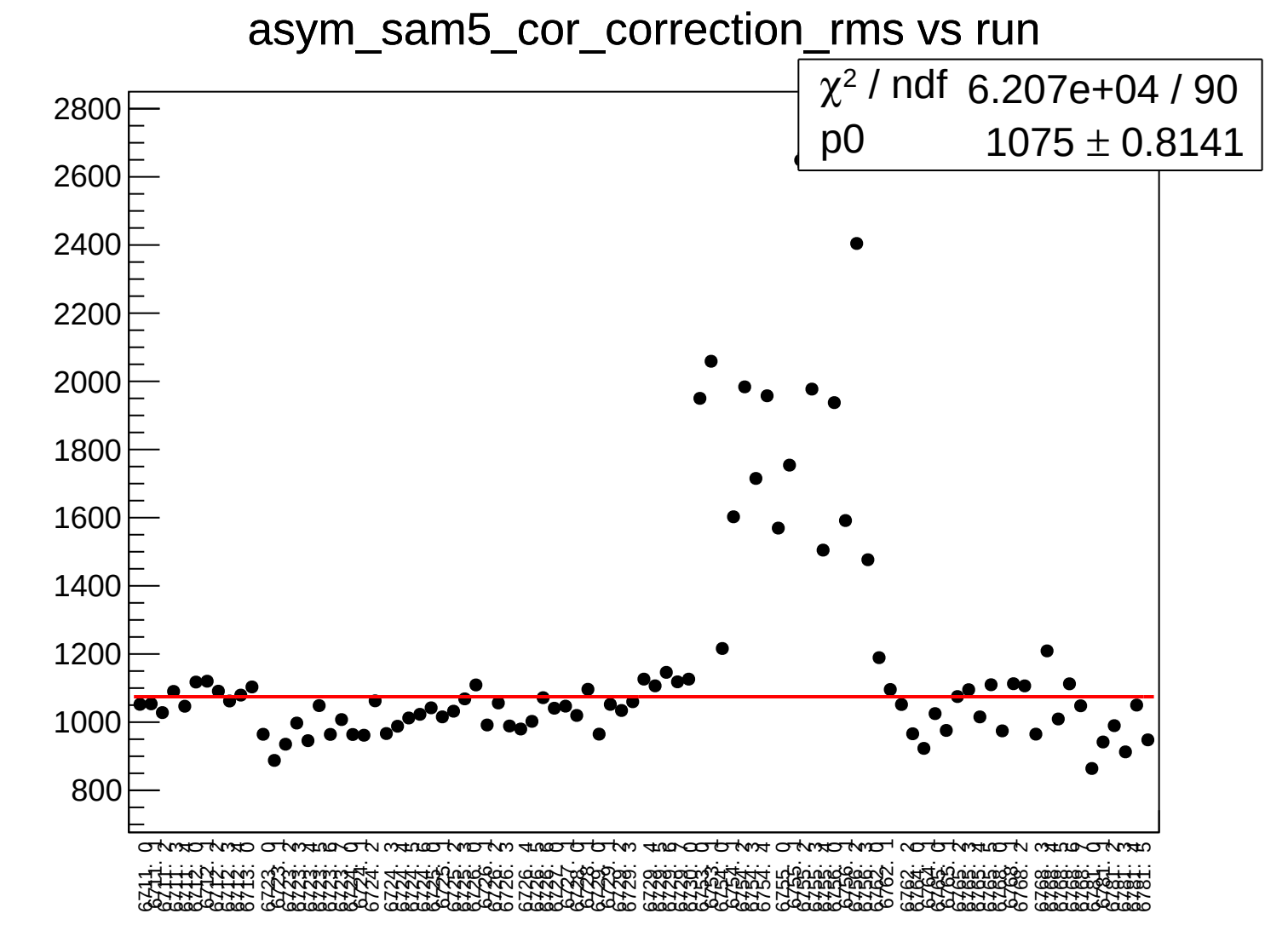

cor_asym_sam5_mean vs run
χ² / ndf 108.6 / 90
p0 −262.9 ± 164.5
pull
Entries 91
Mean −101.6
Std Dev 0

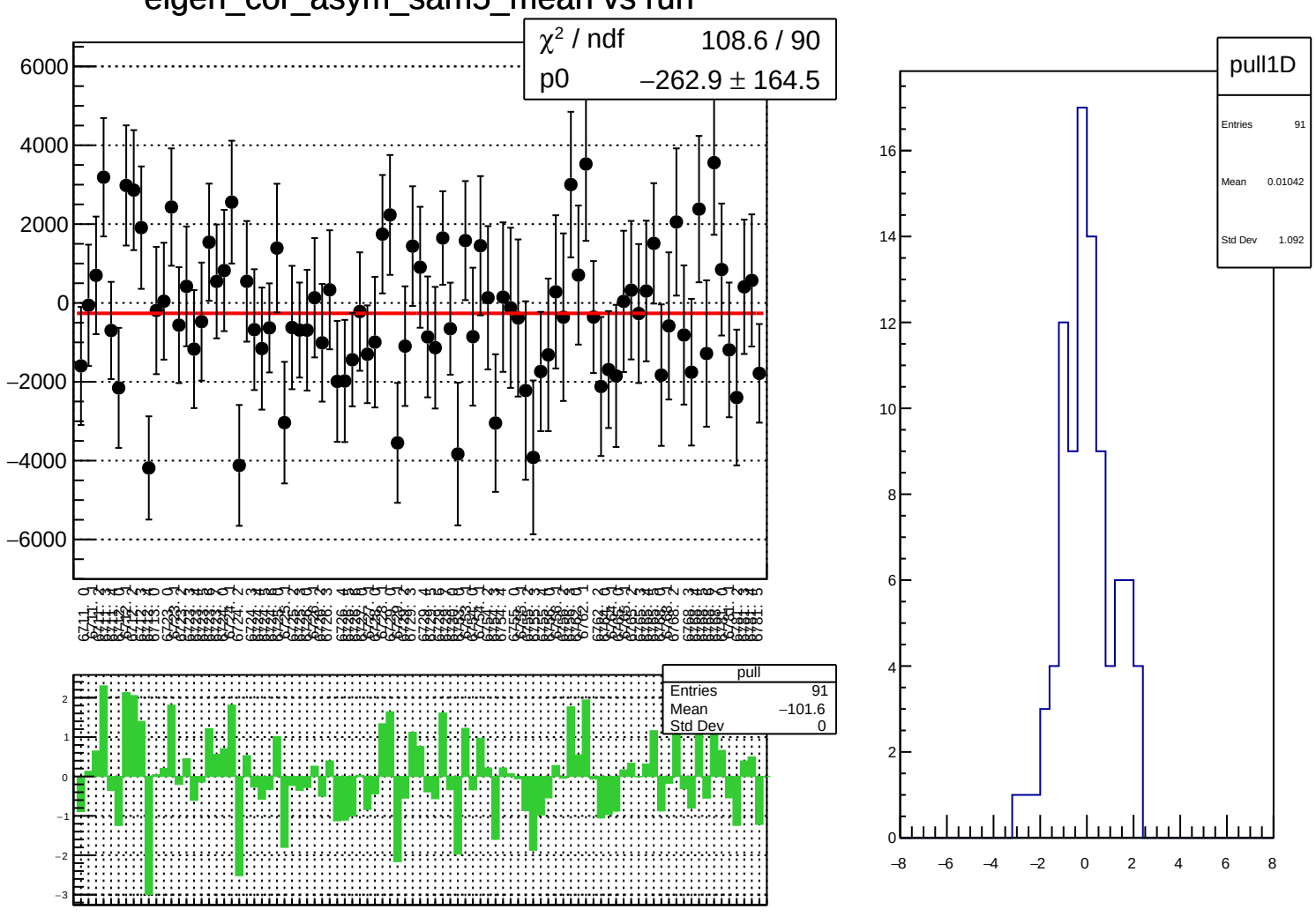

pull1D
Entries 91
Mean 0.01042
Std Dev 1.092

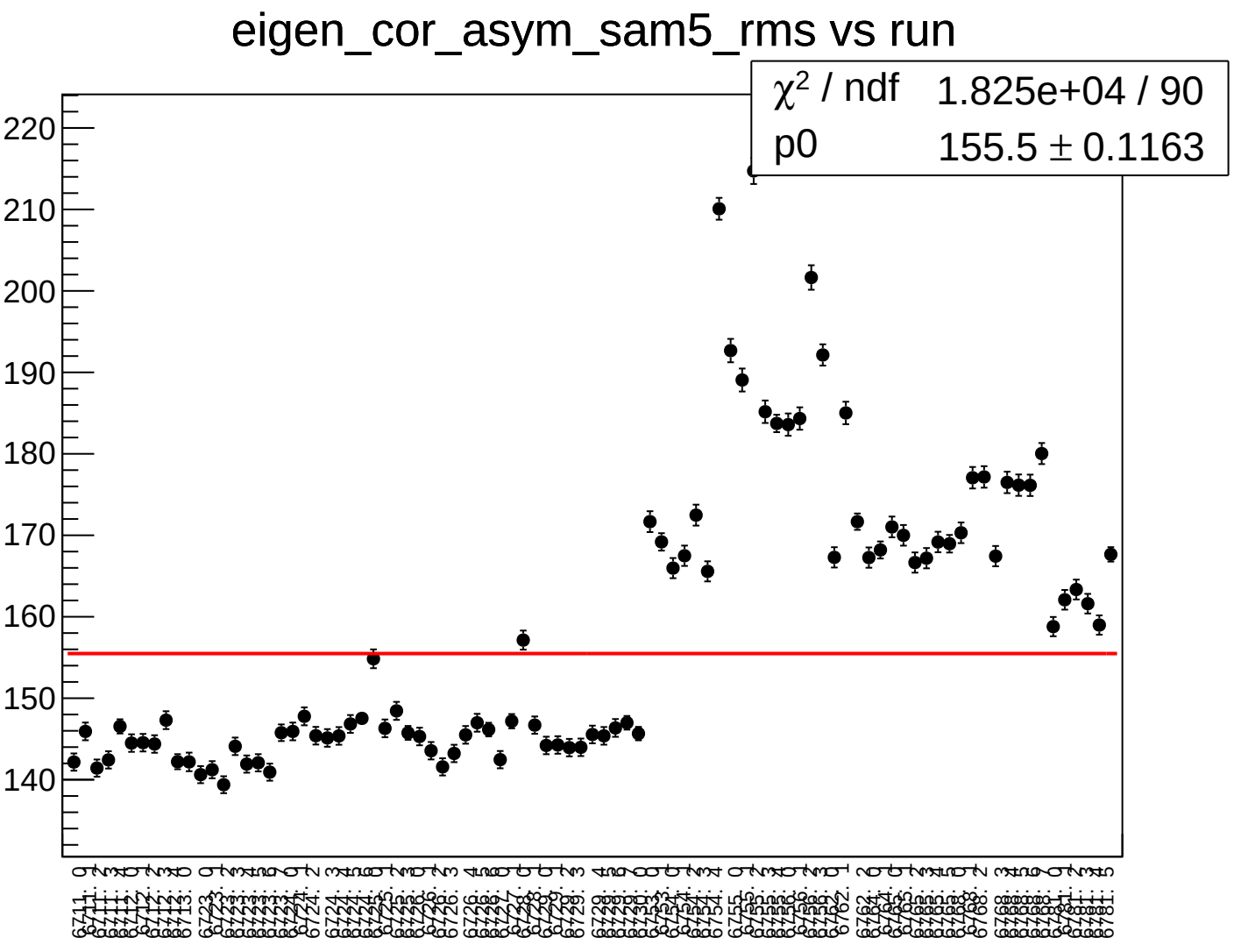

cor_asym_sam5_rms vs run
χ² / ndf 1.825e+04 / 90
p0 155.5 ± 0.1163
220
210
200
190
180
170
160
150
140

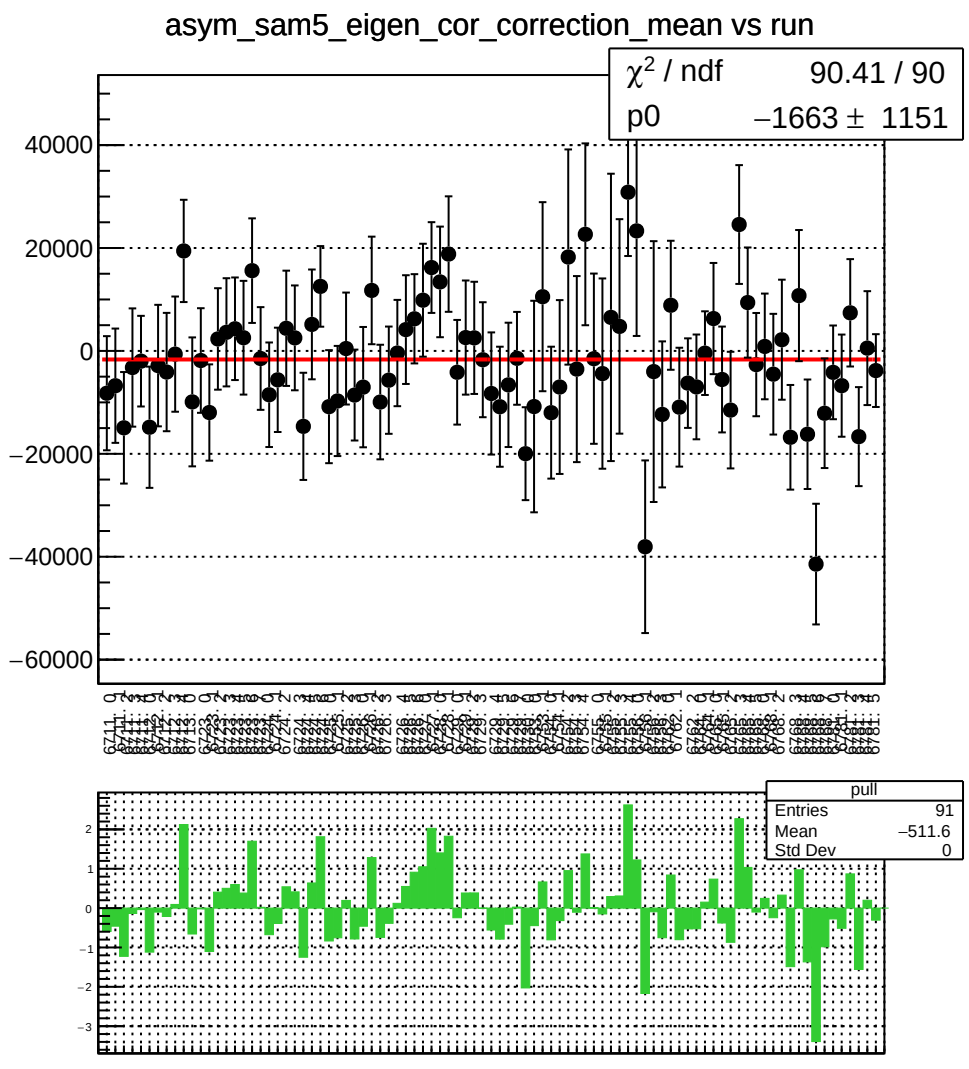

asym_sam5_cor_correction_mean vs run
χ² / ndf 90.41 / 90
p0 −1663 ± 1151
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −511.6
Std Dev 0
2
1
0
−1
−2
−3

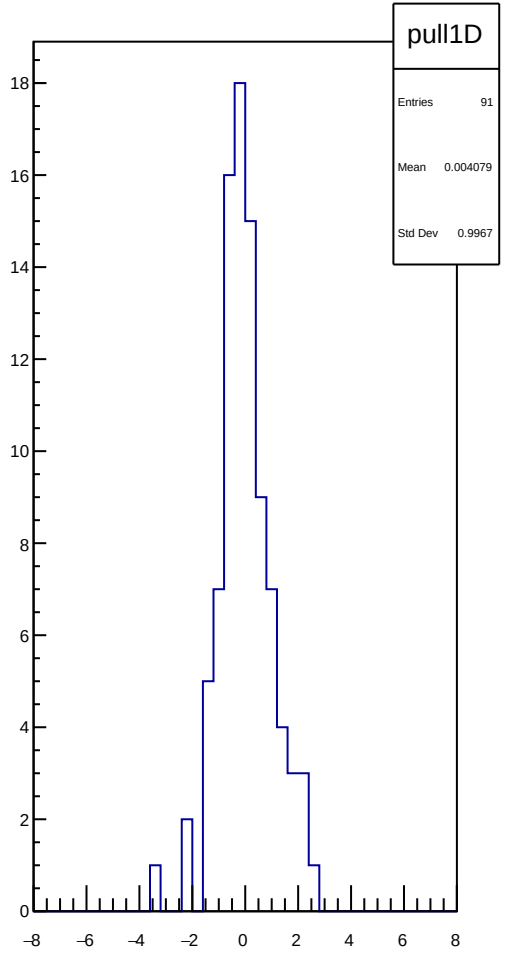

pull1D
Entries 91
Mean 0.004079
Std Dev 0.9967
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_cor_correction_rms vs run
χ² / ndf 6.207e+04 / 90
p0 1075 ± 0.8141
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800


eigen_cor_asym_sam5_mean vs run
χ² / ndf 108.6 / 90
p0 −262.9 ± 164.5
pull
Entries 91
Mean −101.6
Std Dev 0
pull1D
Entries 91
Mean 0.01042
Std Dev 1.092


eigen_cor_asym_sam5_rms vs run
χ² / ndf 1.825e+04 / 90
p0 155.5 ± 0.1163
220
210
200
190
180
170
160
150
140


asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 90.41 / 90
p0 −1663 ± 1151
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −511.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean 0.004079
Std Dev 0.9967
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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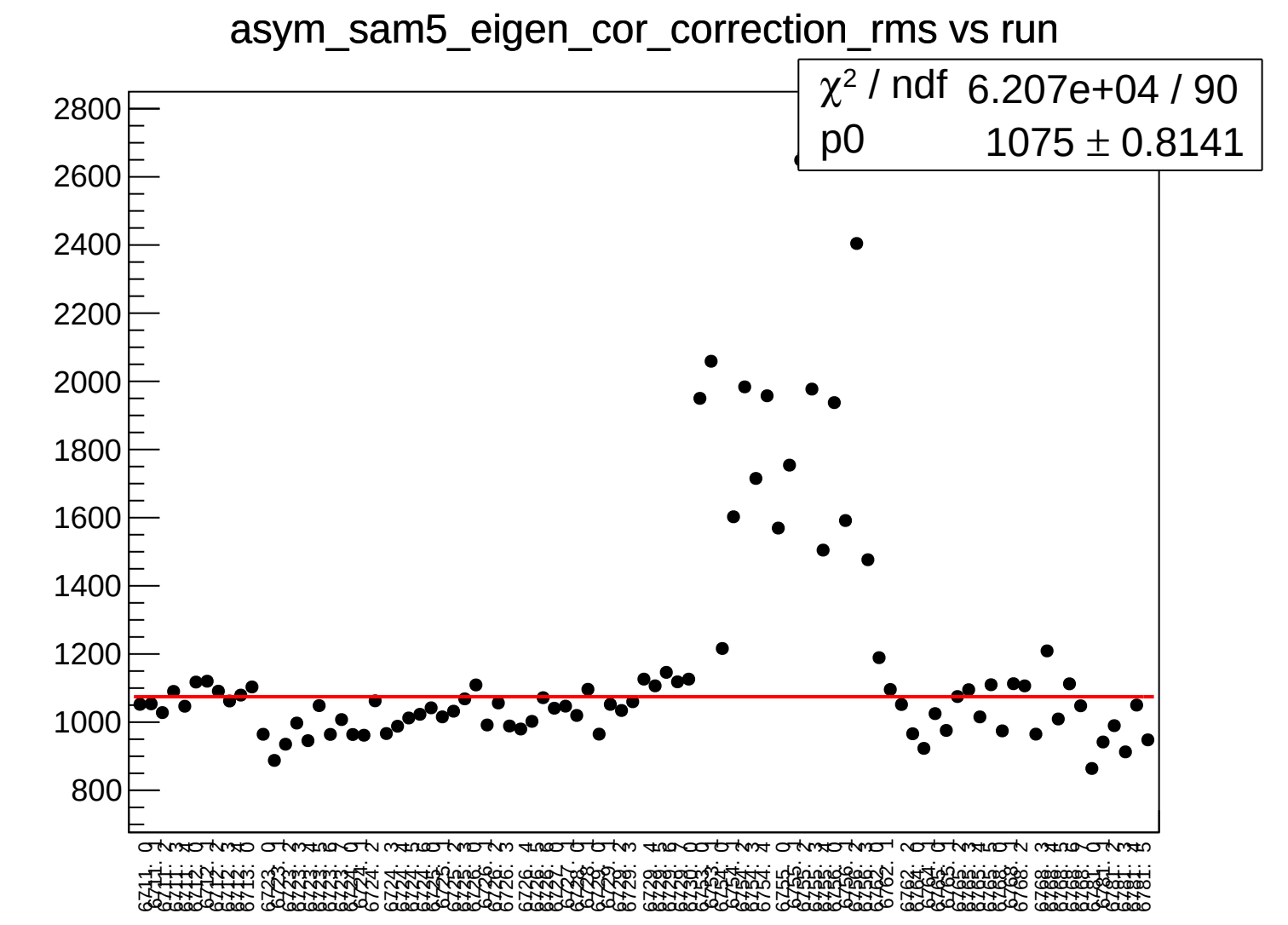
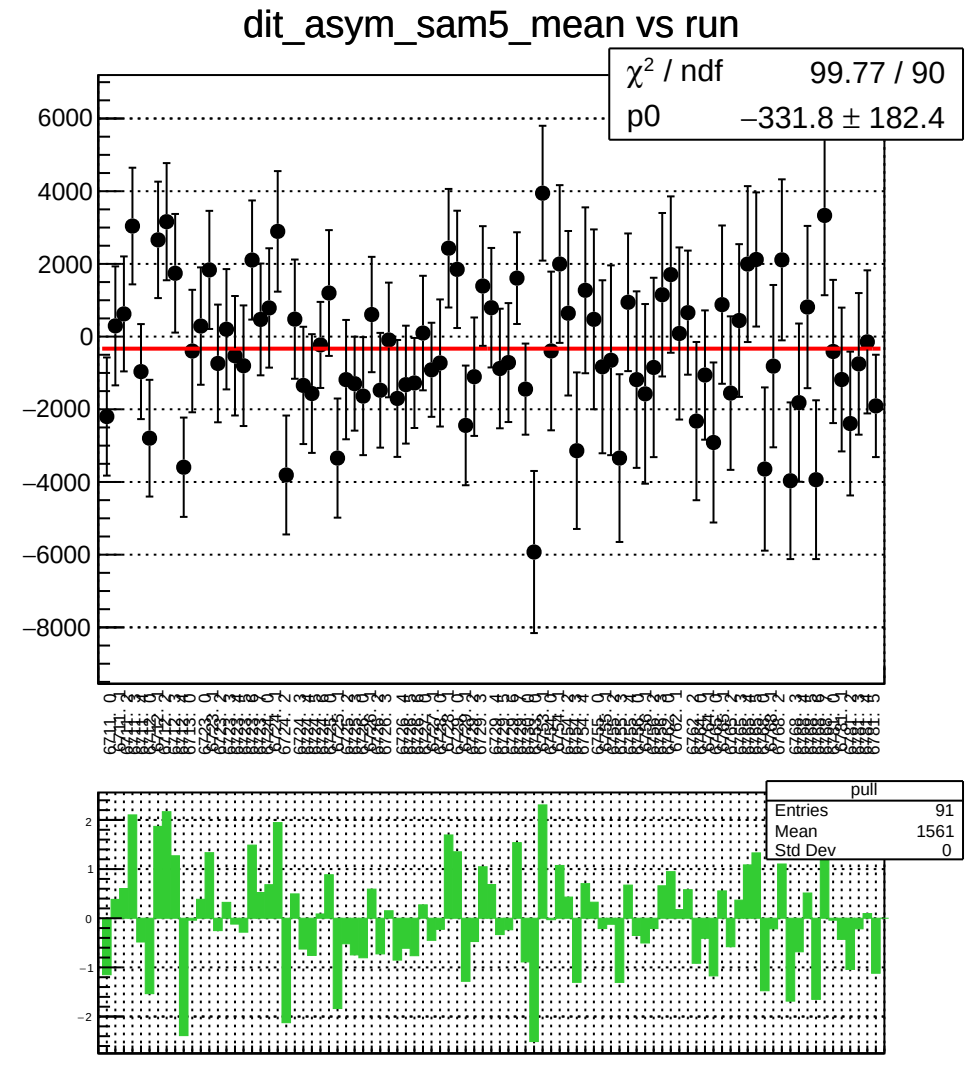
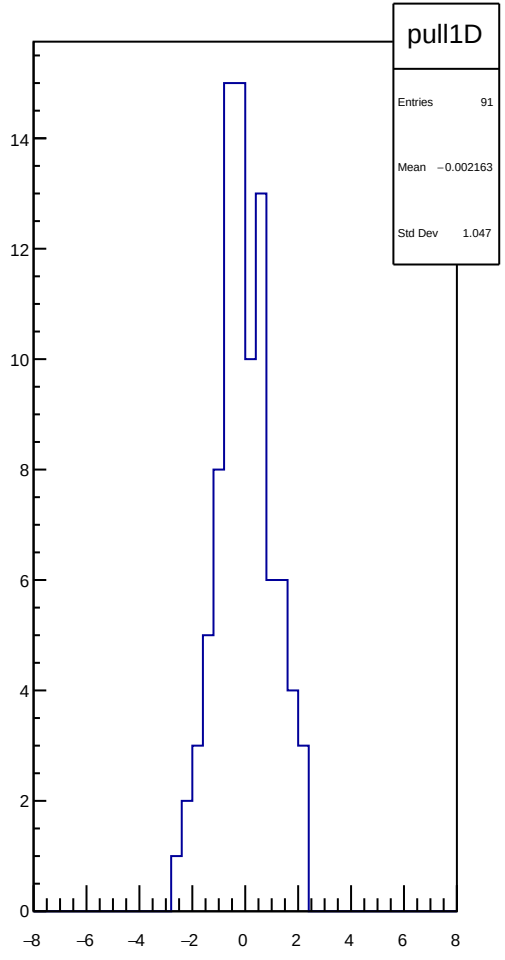
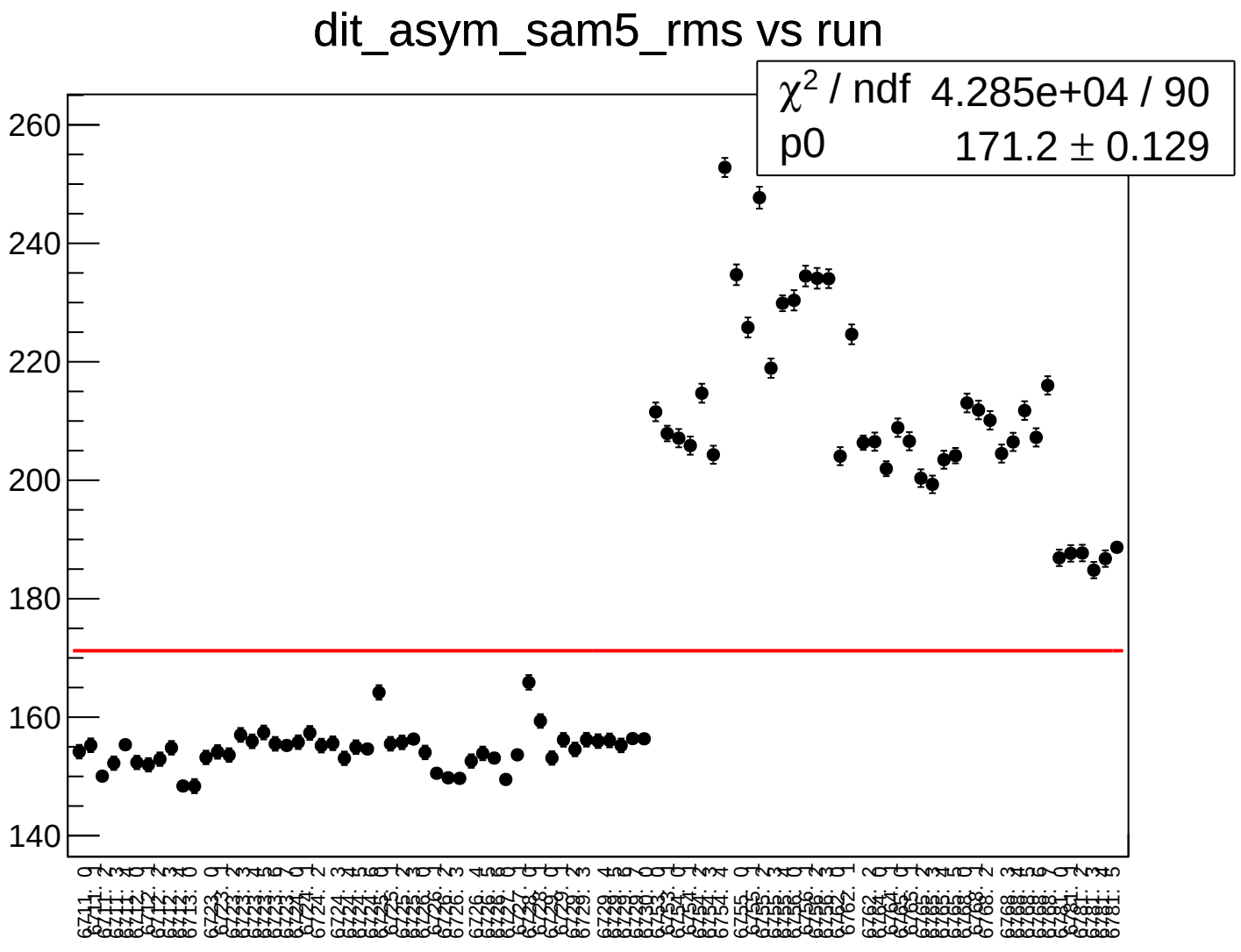
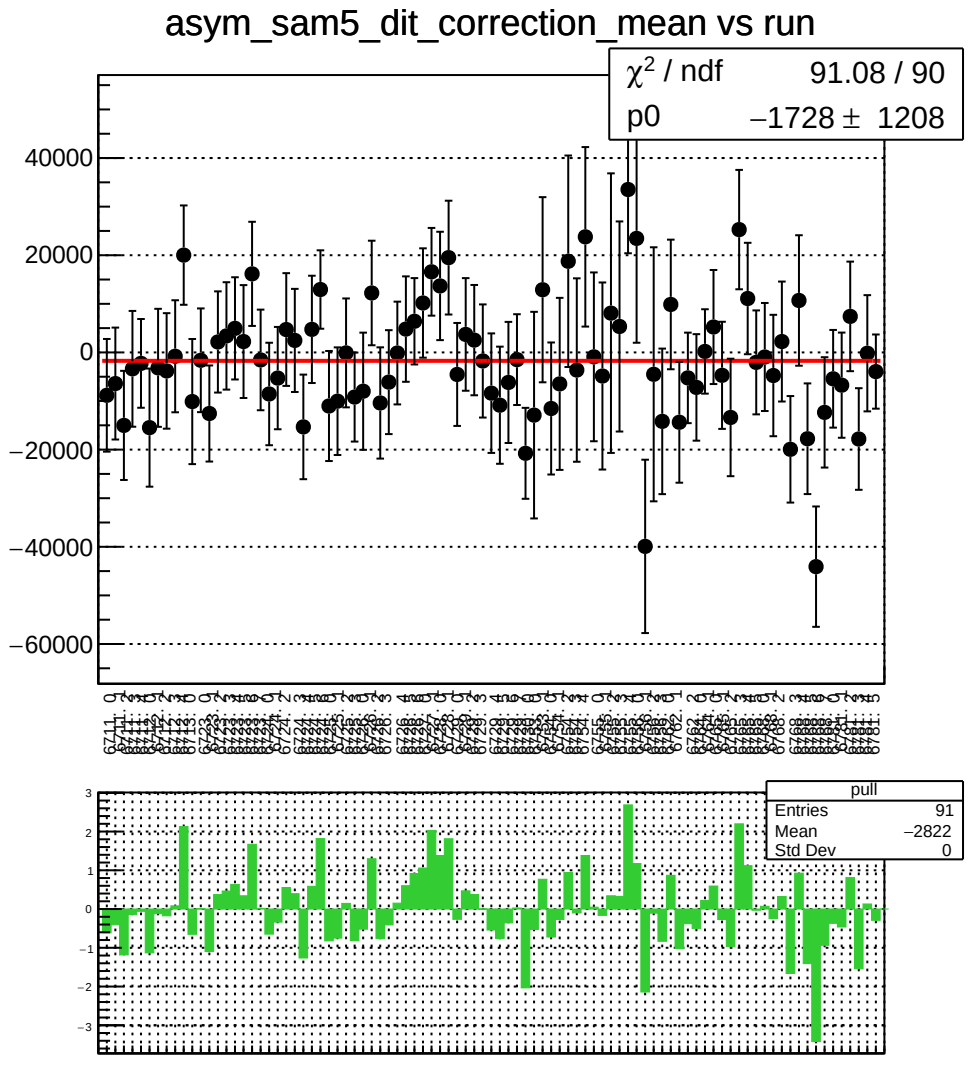
0
2
4
6
8

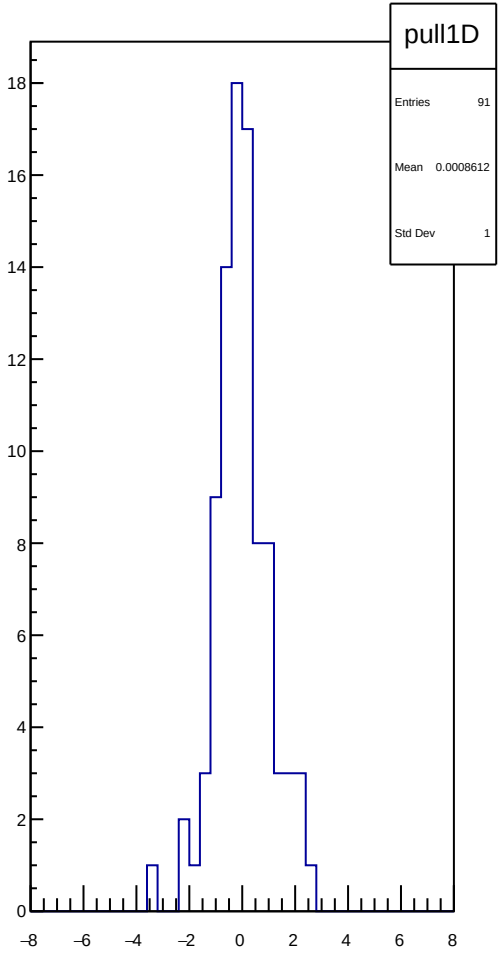

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 6.207e+04 / 90
p0 1075 ± 0.8141
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

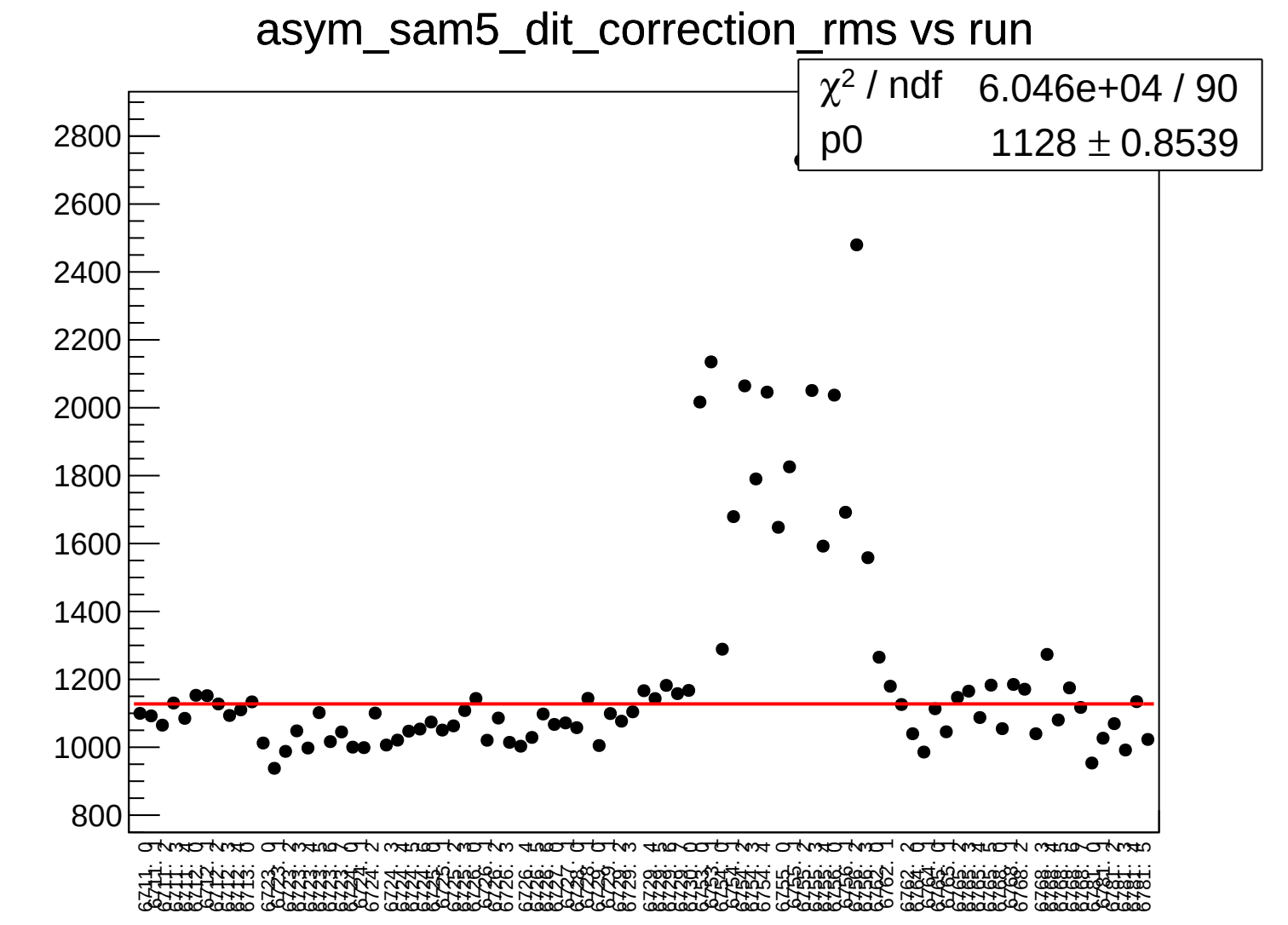

dit_asym_sam5_mean vs run
χ² / ndf 99.77 / 90
p0 −331.8 ± 182.4
pull
Entries 91
Mean 1561
Std Dev 0

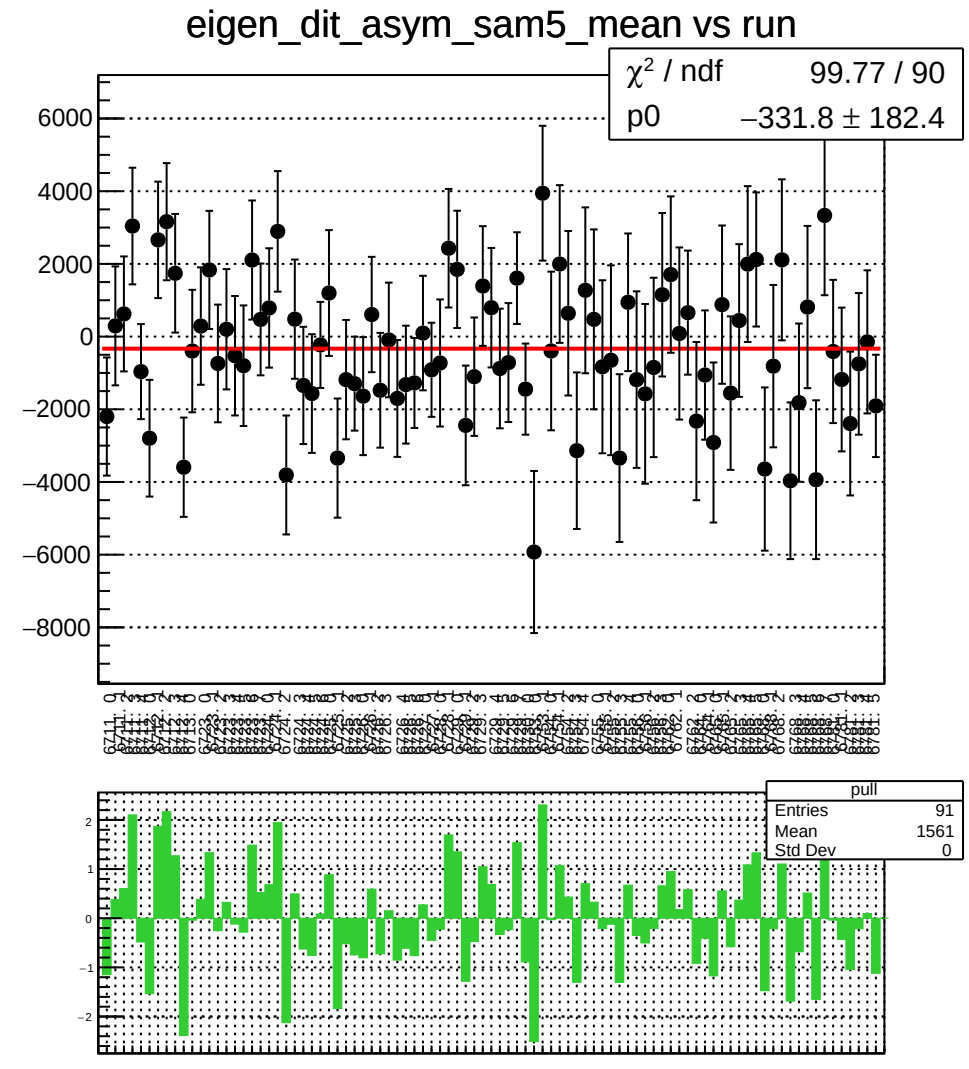

pull1D
Entries 91
Mean −0.002163
Std Dev 1.047

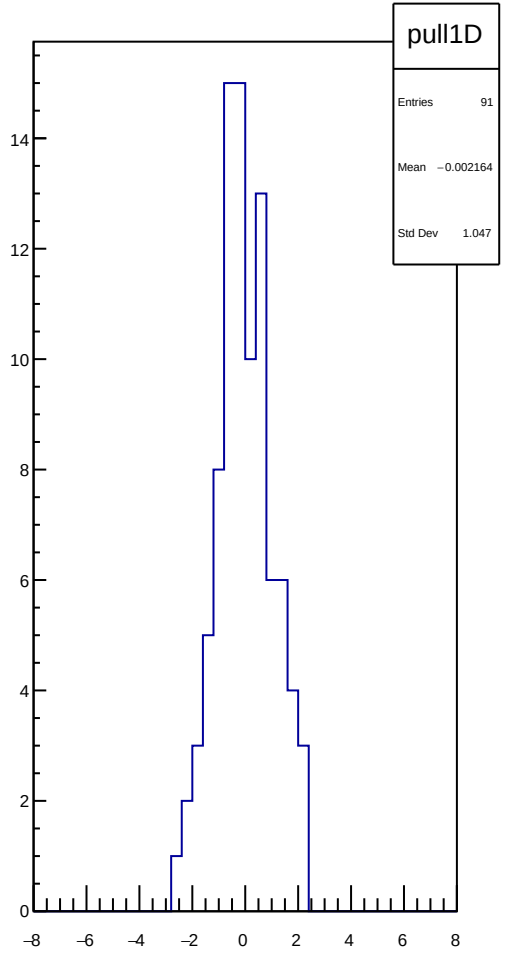

dit_asym_sam5_rms vs run
χ² / ndf 4.285e+04 / 90
p0 171.2 ± 0.129
260
240
220
200
180
160
140

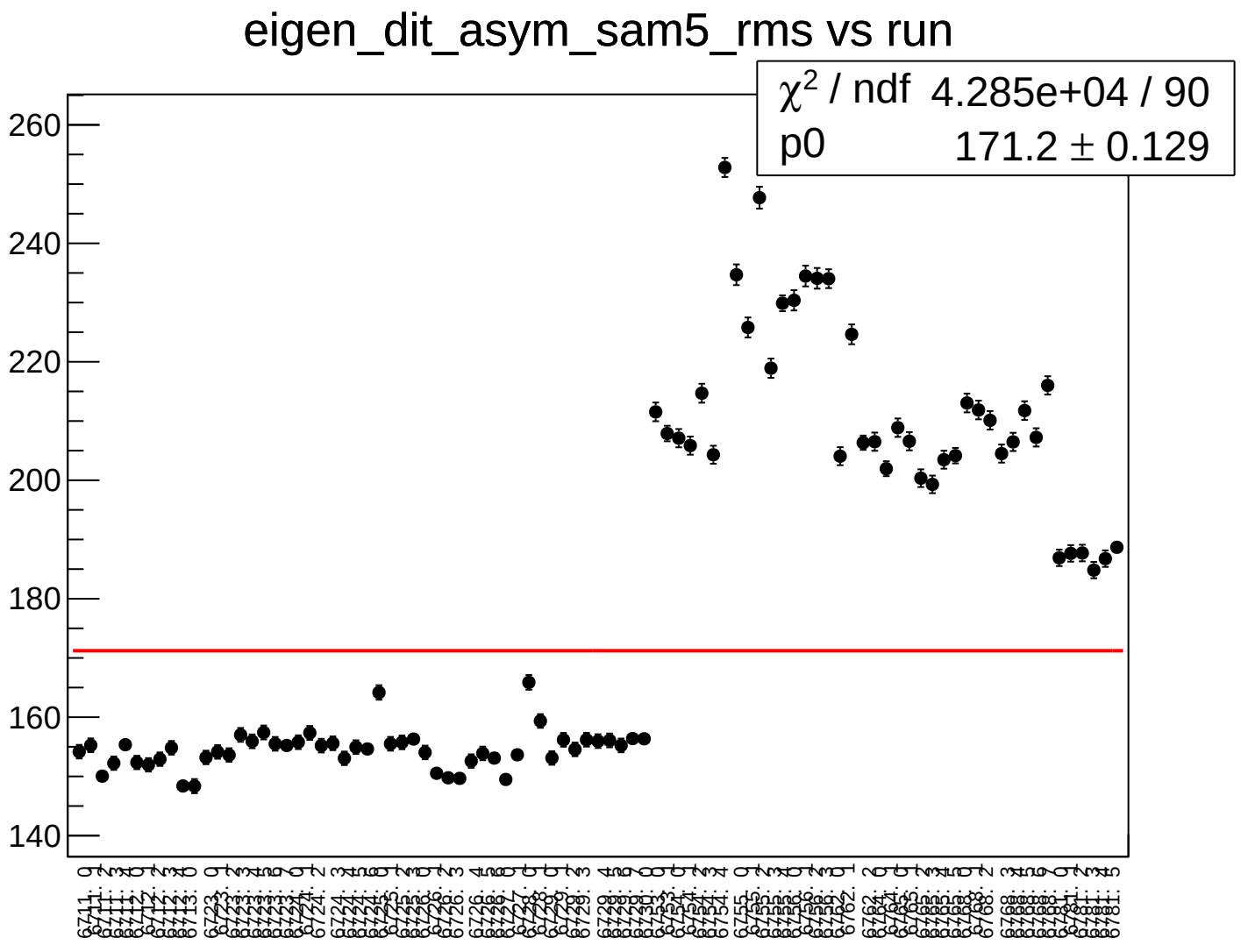

asym_sam5_dit_correction_mean vs run
χ² / ndf 91.08 / 90
p0 −1728 ± 1208
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −2822
Std Dev 0
3
2
1
0
−1
−2
−3

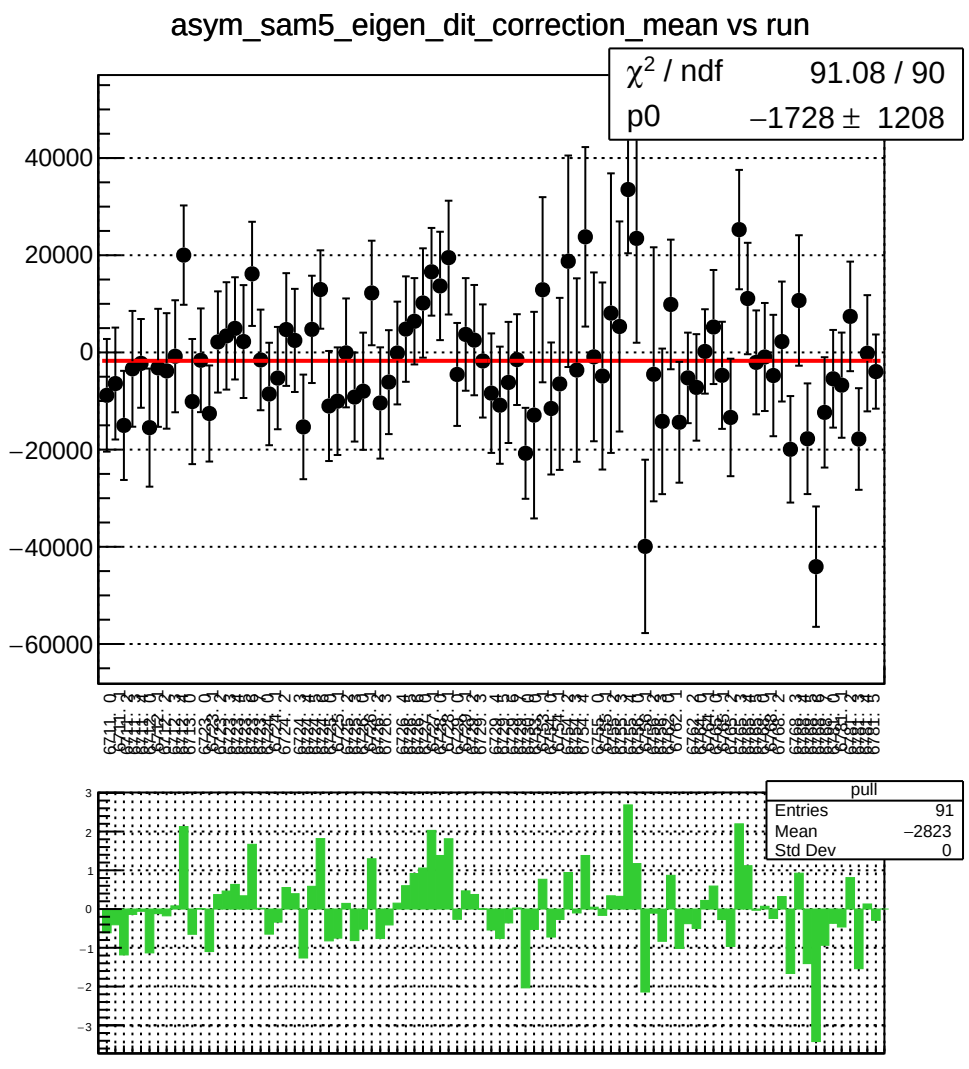

pull1D
Entries 91
Mean 0.0008612
Std Dev 1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

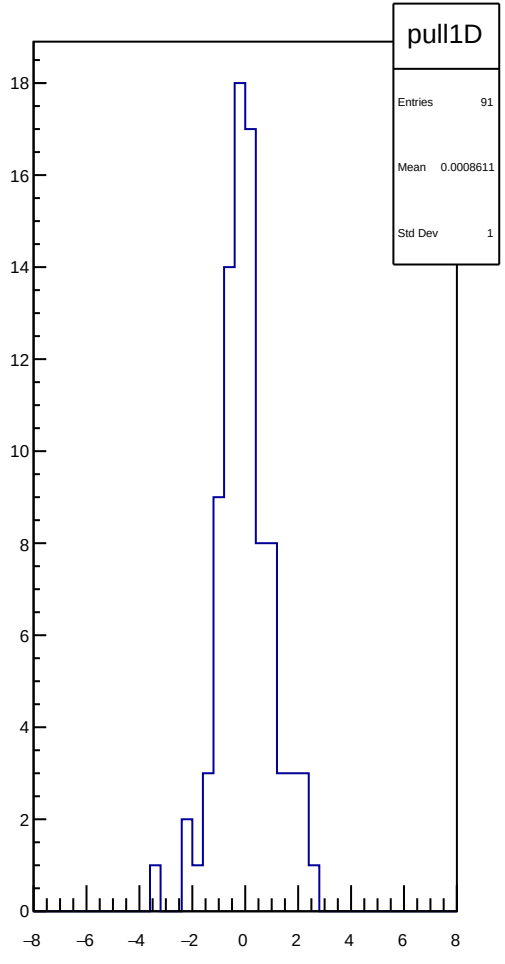

asym_sam5_dit_correction_rms vs run
χ² / ndf 6.046e+04 / 90
p0 1128 ± 0.8539
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

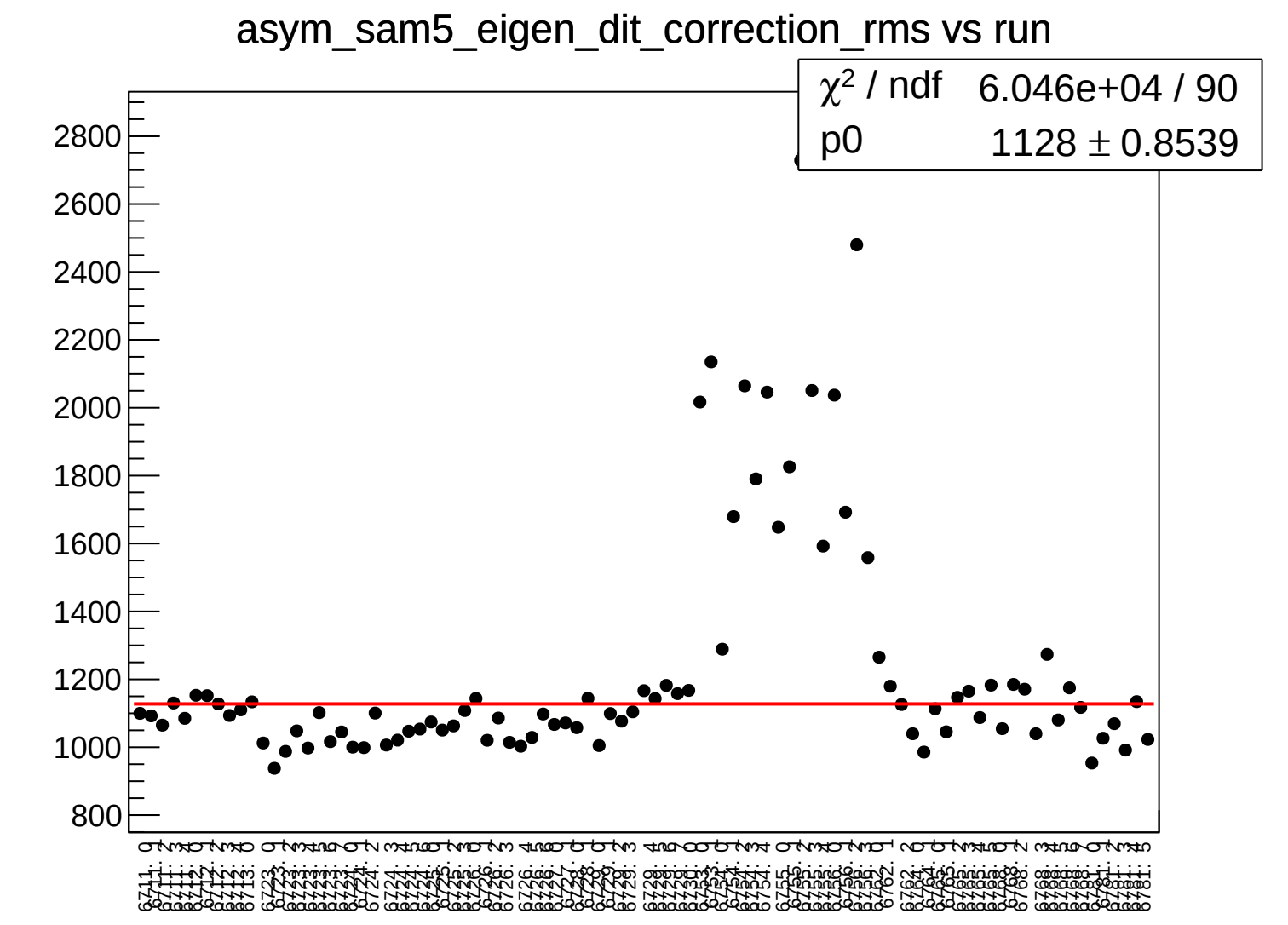

eigen_dit_asym_sam5_mean vs run
χ² / ndf 99.77 / 90
p0 −331.8 ± 182.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 91
Mean 1561
Std Dev 0
2
1
0
−1
−2

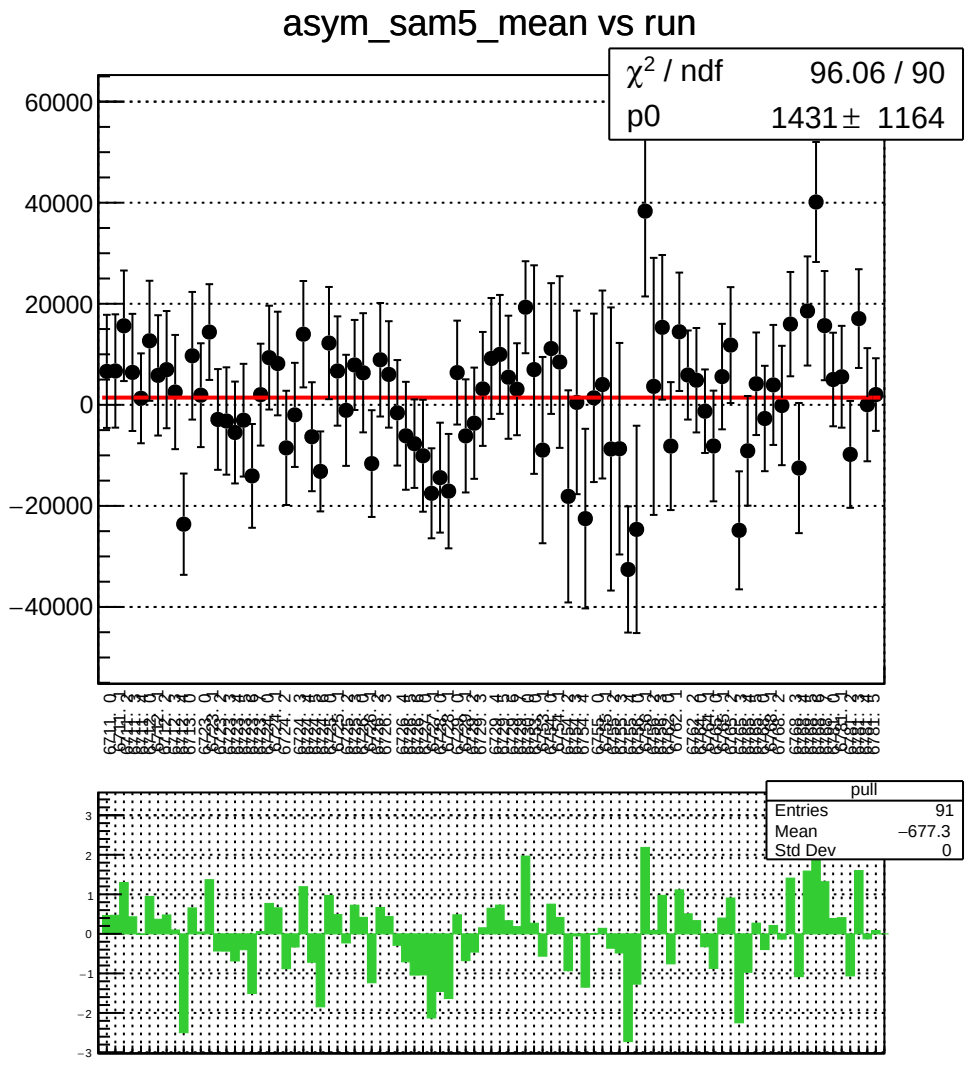

pull1D
Entries 91
Mean −0.002164
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

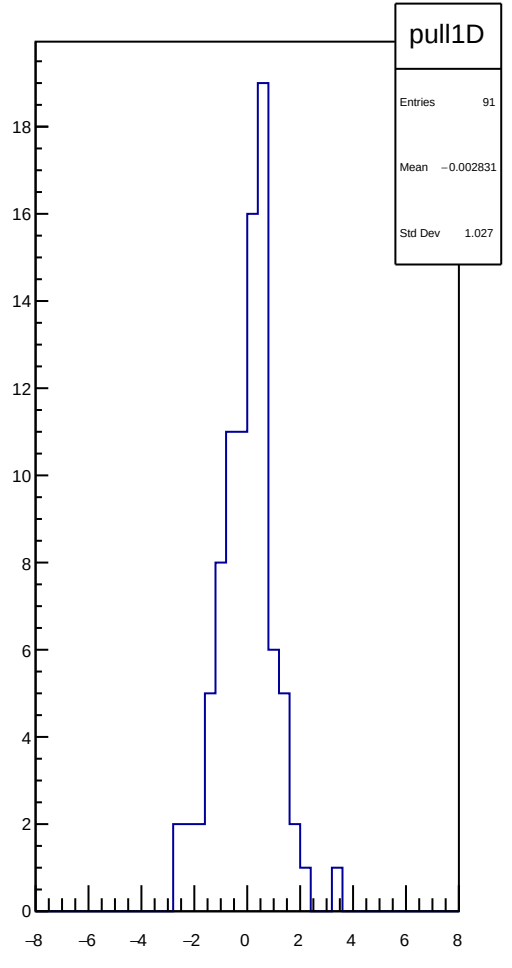

eigen_dit_asym_sam5_rms vs run
χ² / ndf 4.285e+04 / 90
p0 171.2 ± 0.129
260
240
220
200
180
160
140

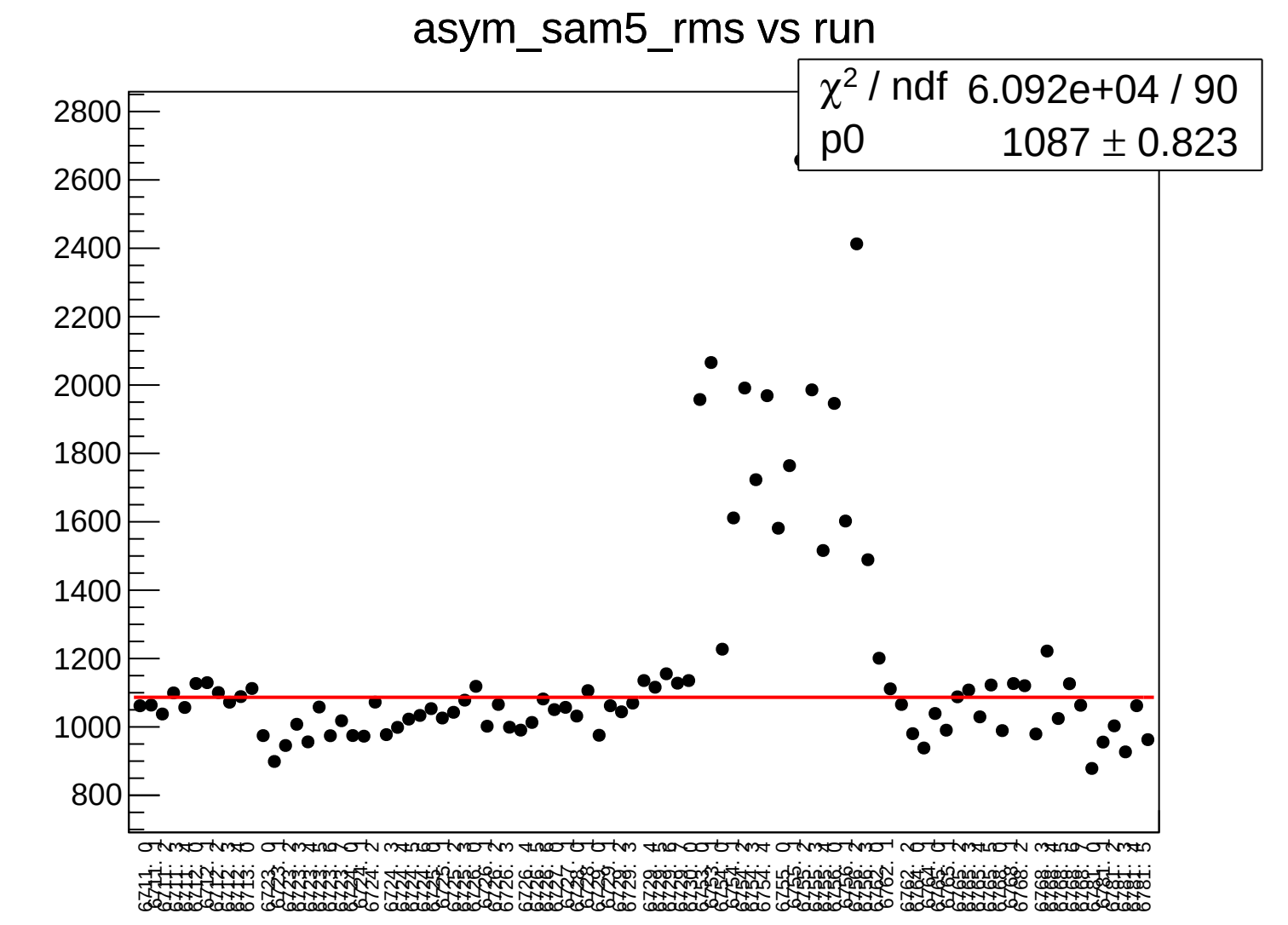

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 91.08 / 90
p0 −1728 ± 1208
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −2823
Std Dev 0
3
2
1
0
−1
−2
−3

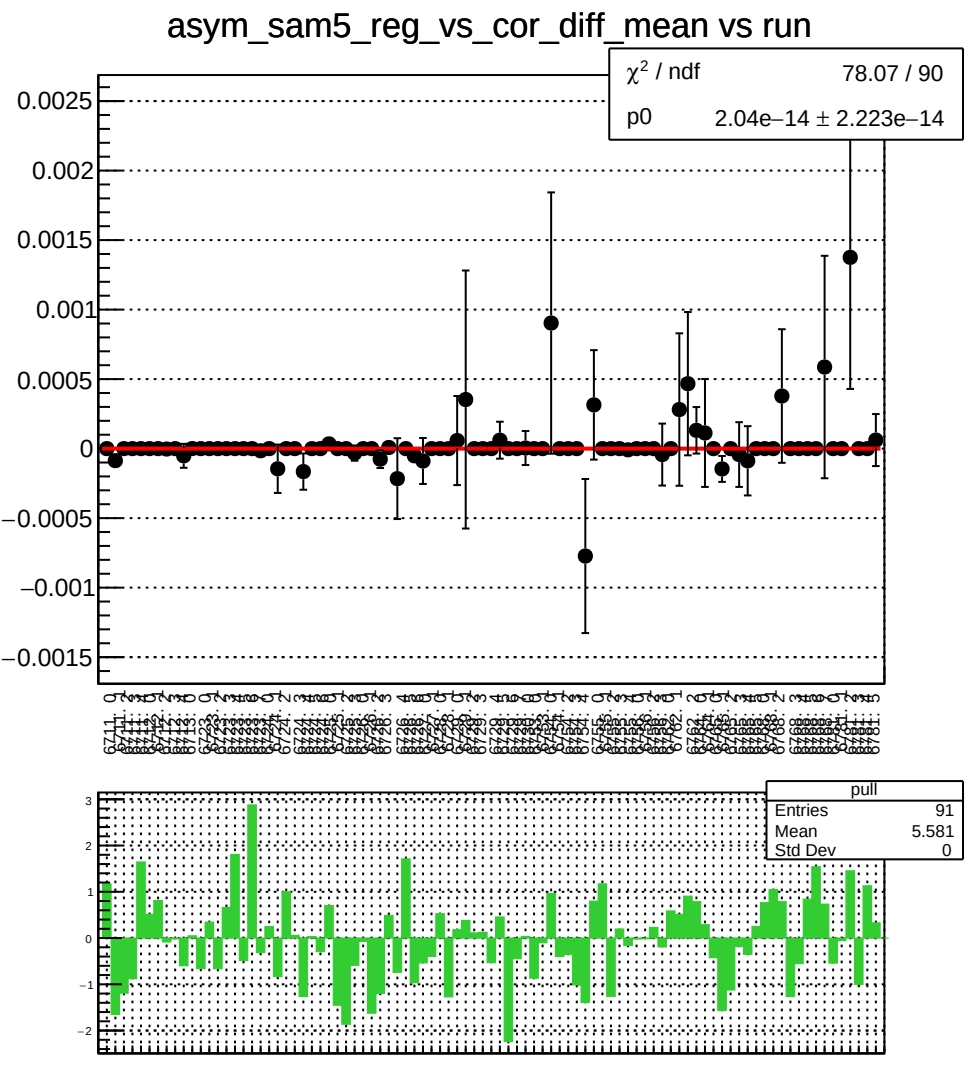

pull1D
Entries 91
Mean 0.0008611
Std Dev 1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

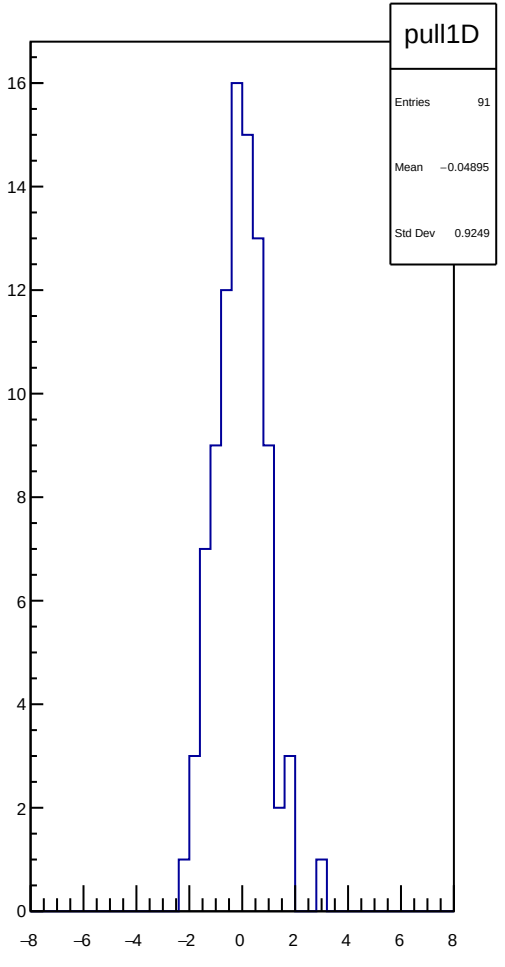

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 6.046e+04 / 90
p0 1128 ± 0.8539
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

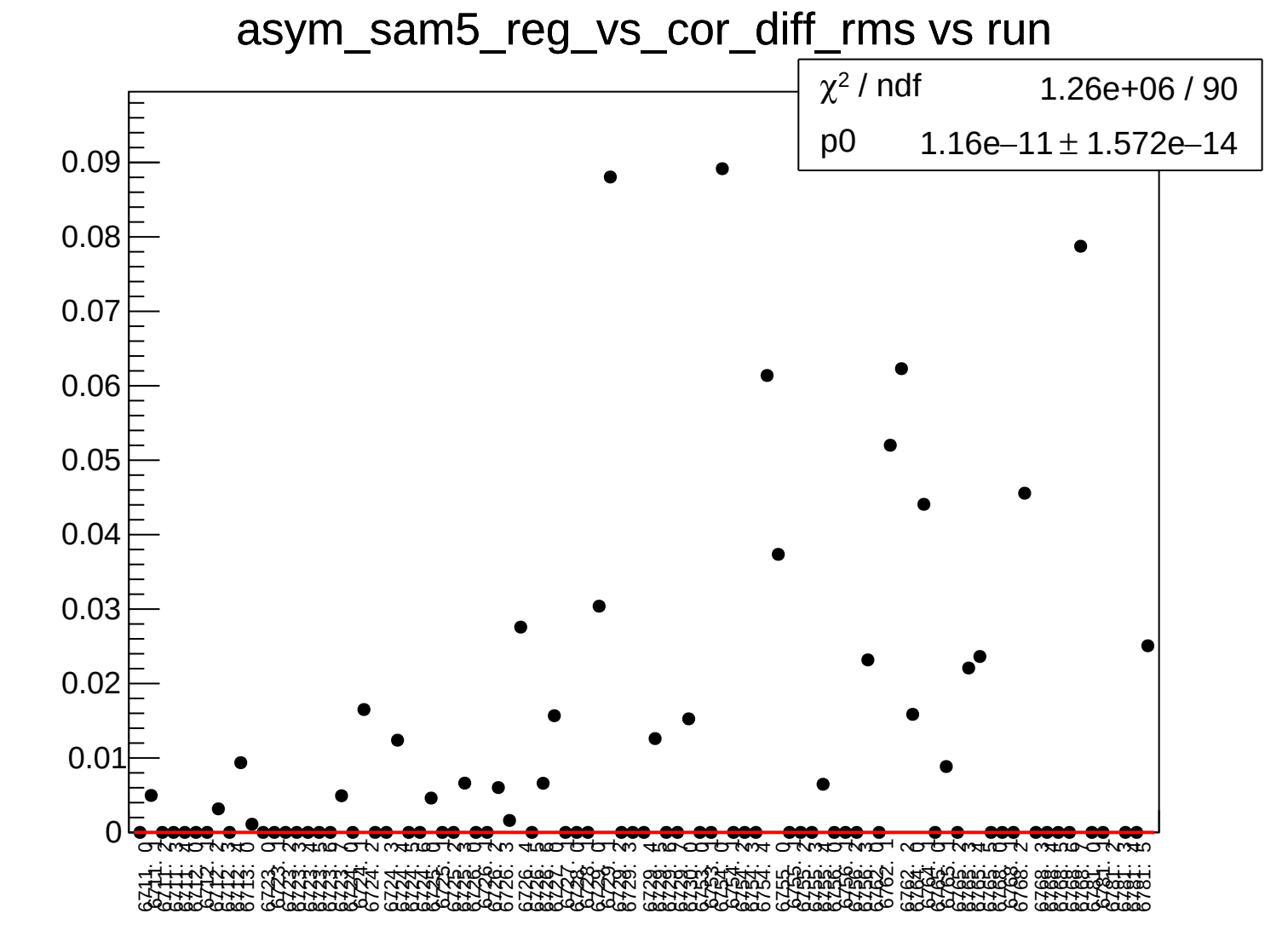

asym_sam5_mean vs run
χ² / ndf 96.06 / 90
p0 1431 ± 1164
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −677.3
Std Dev 0
3
2
1
0
−1
−2
−3

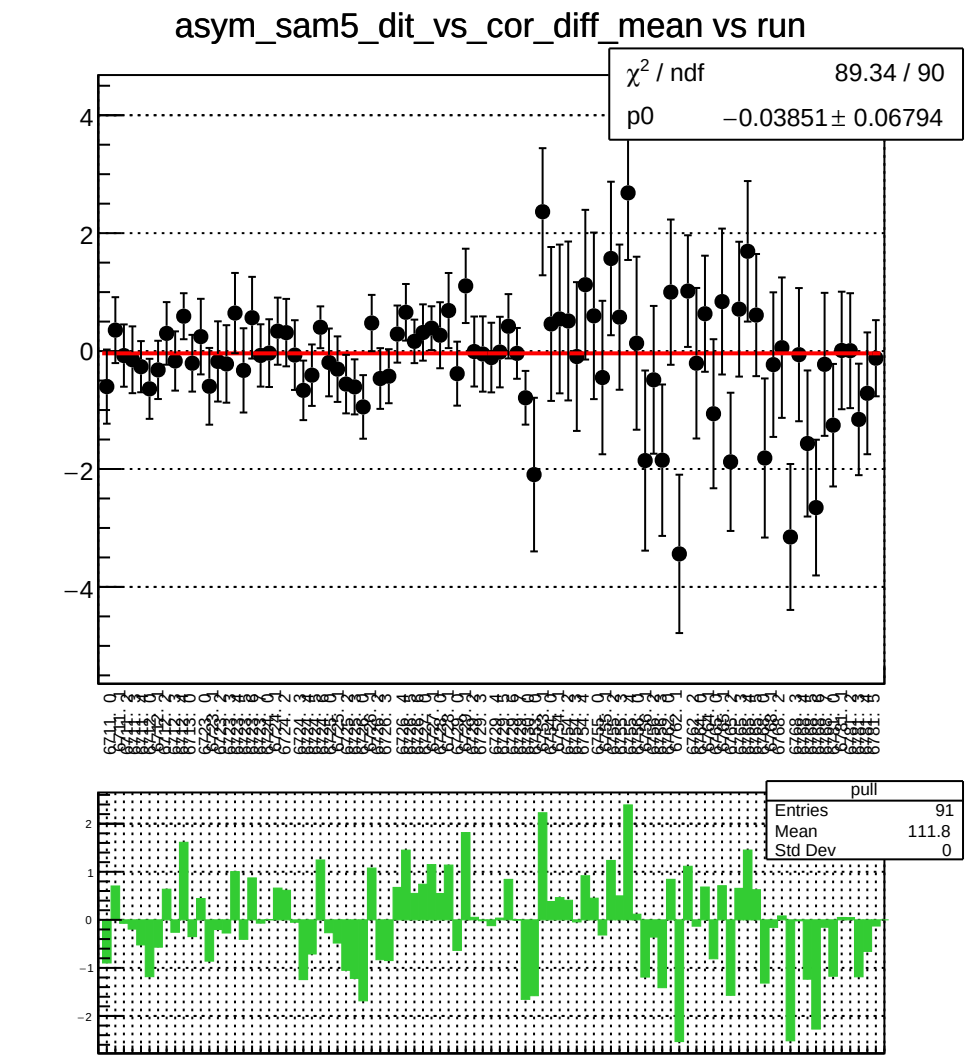

pull1D
Entries 91
Mean −0.002831
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

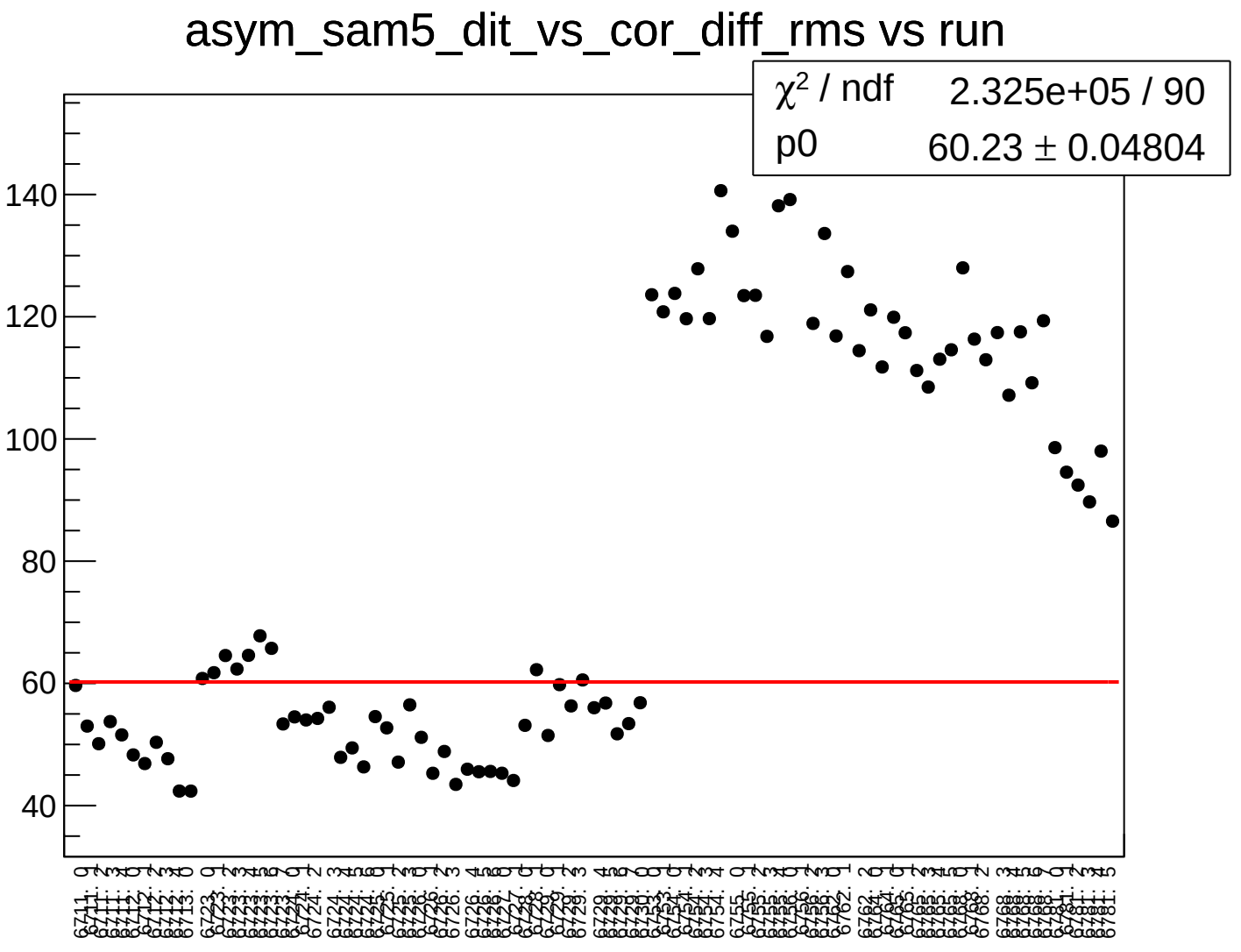

asym_sam5_rms vs run
χ^2 / ndf 6.092e+04 / 90
p0 1087 ± 0.823
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

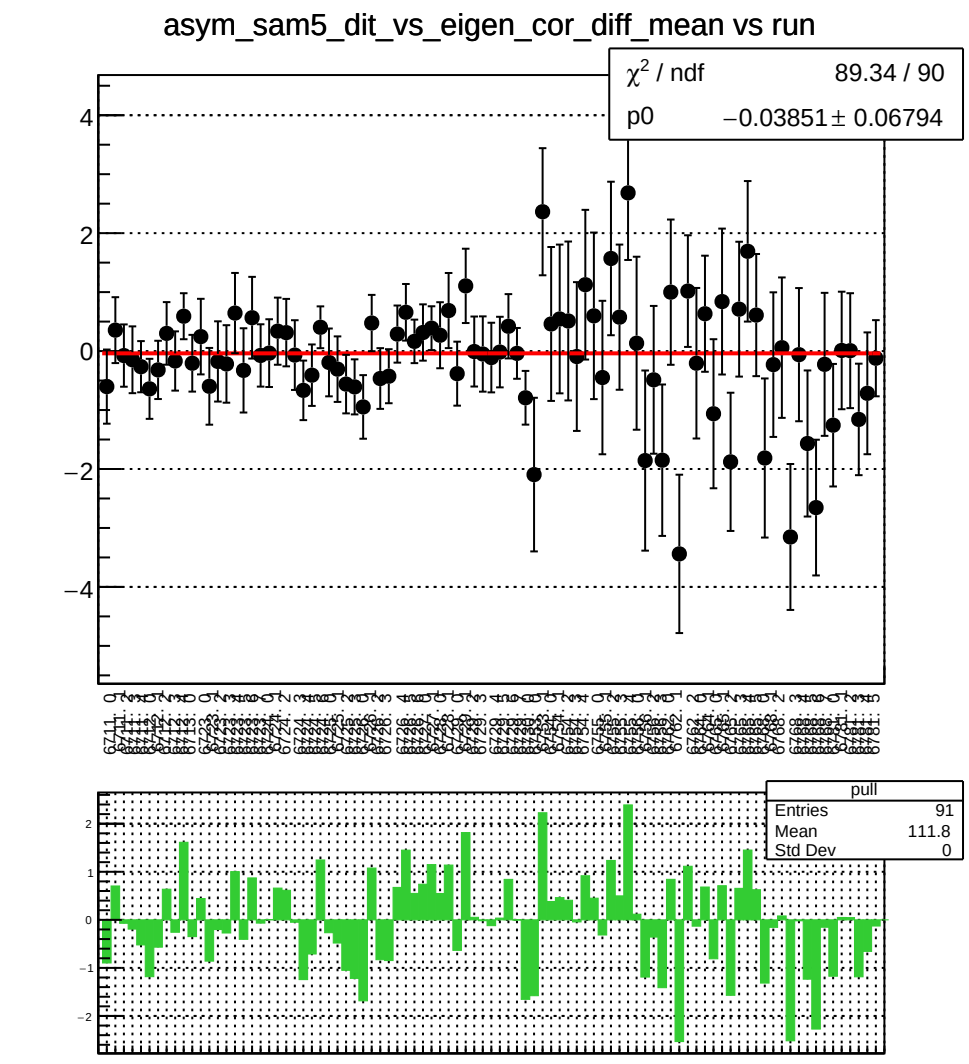

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 78.07 / 90
p0 2.04e−14 ± 2.223e−14
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 91
Mean 5.581
Std Dev 0

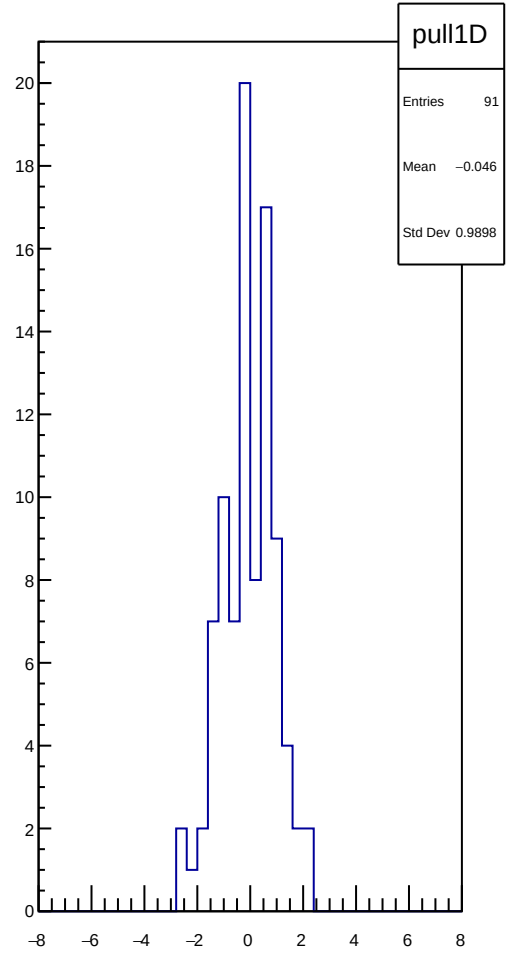

pull1D
Entries 91
Mean −0.04895
Std Dev 0.9249
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

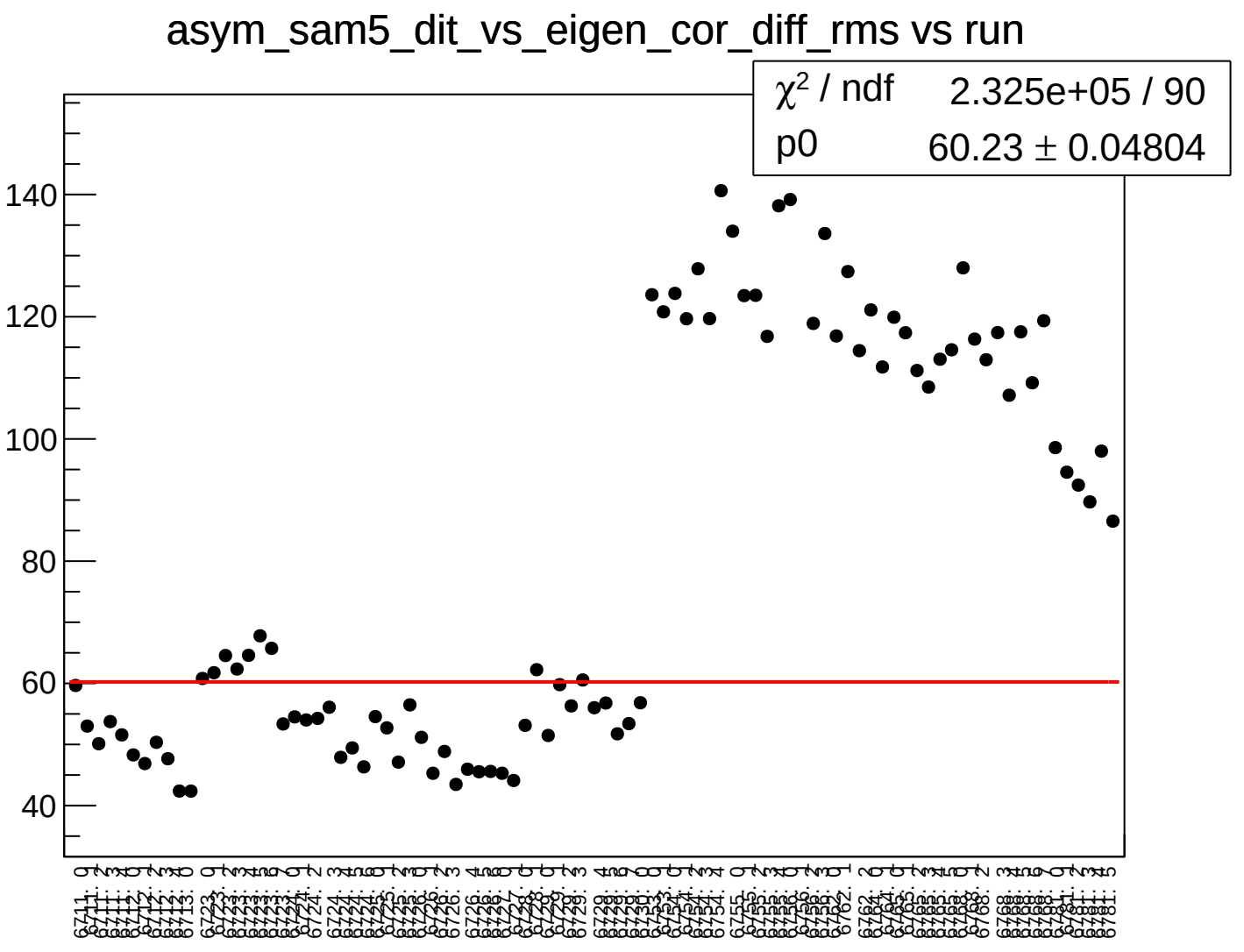

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.26e+06 / 90
p0 1.16e−11 ± 1.572e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

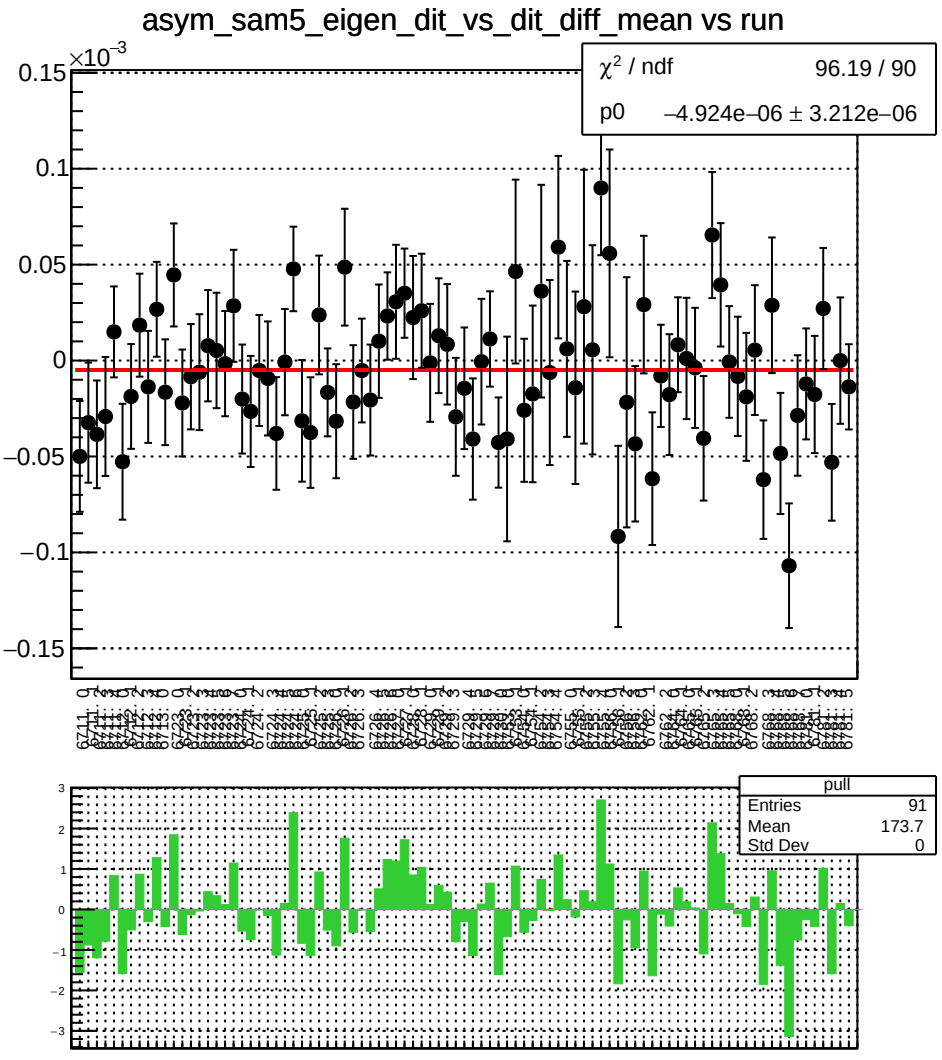

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 89.34 / 90
p0 −0.03851 ± 0.06794
pull
Entries 91
Mean 111.8
Std Dev 0
pull1D
Entries 91
Mean −0.046
Std Dev 0.9898

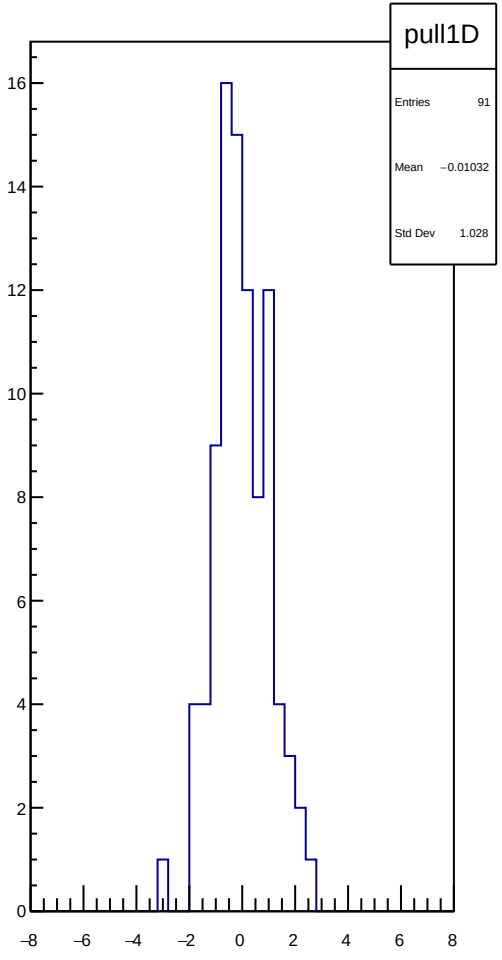

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 2.325e+05 / 90
p0 60.23 ± 0.04804
140
120
100
80
60
40

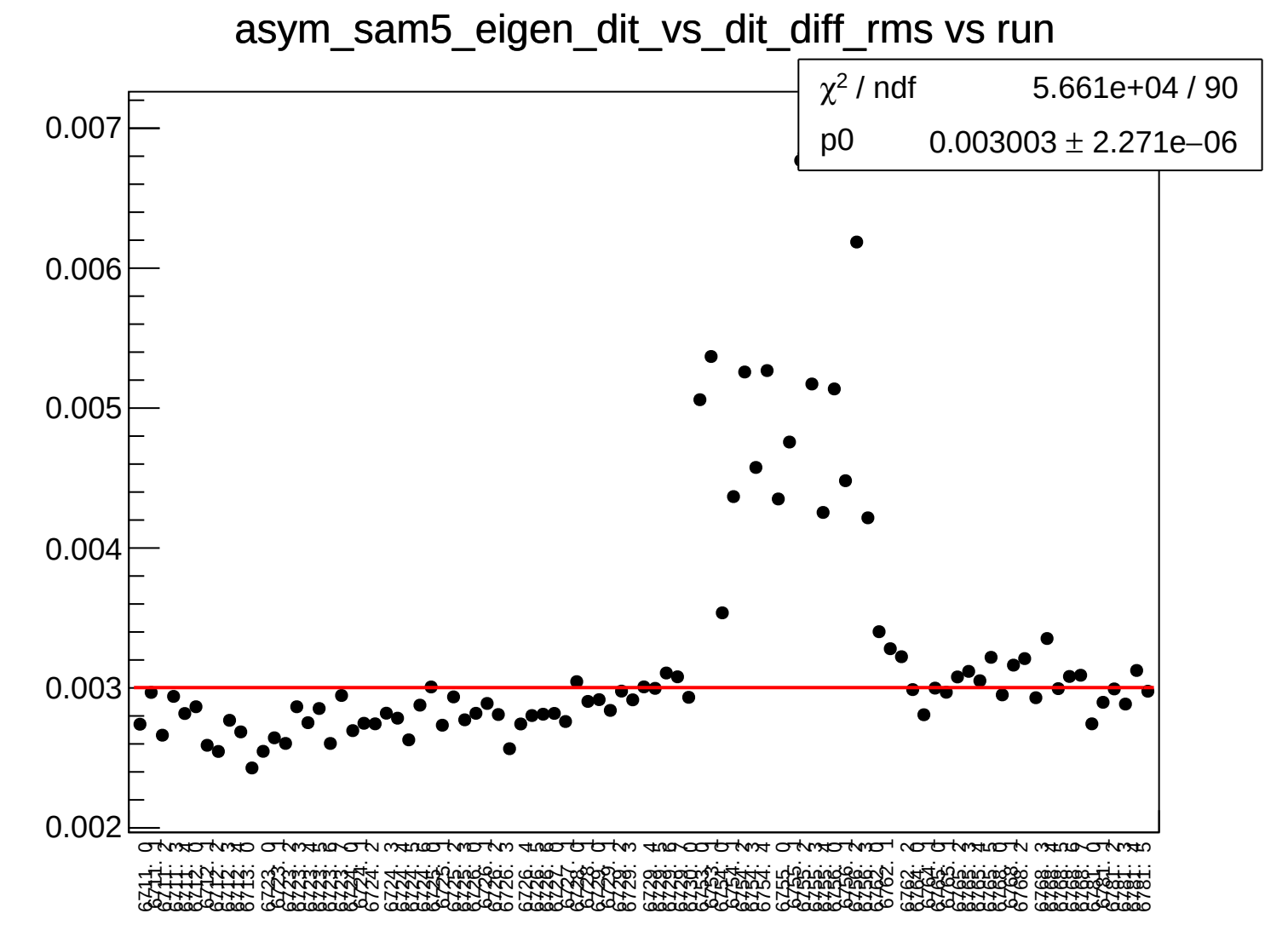

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.34 / 90
p0 −0.03851 ± 0.06794
pull
Entries 91
Mean 111.8
Std Dev 0

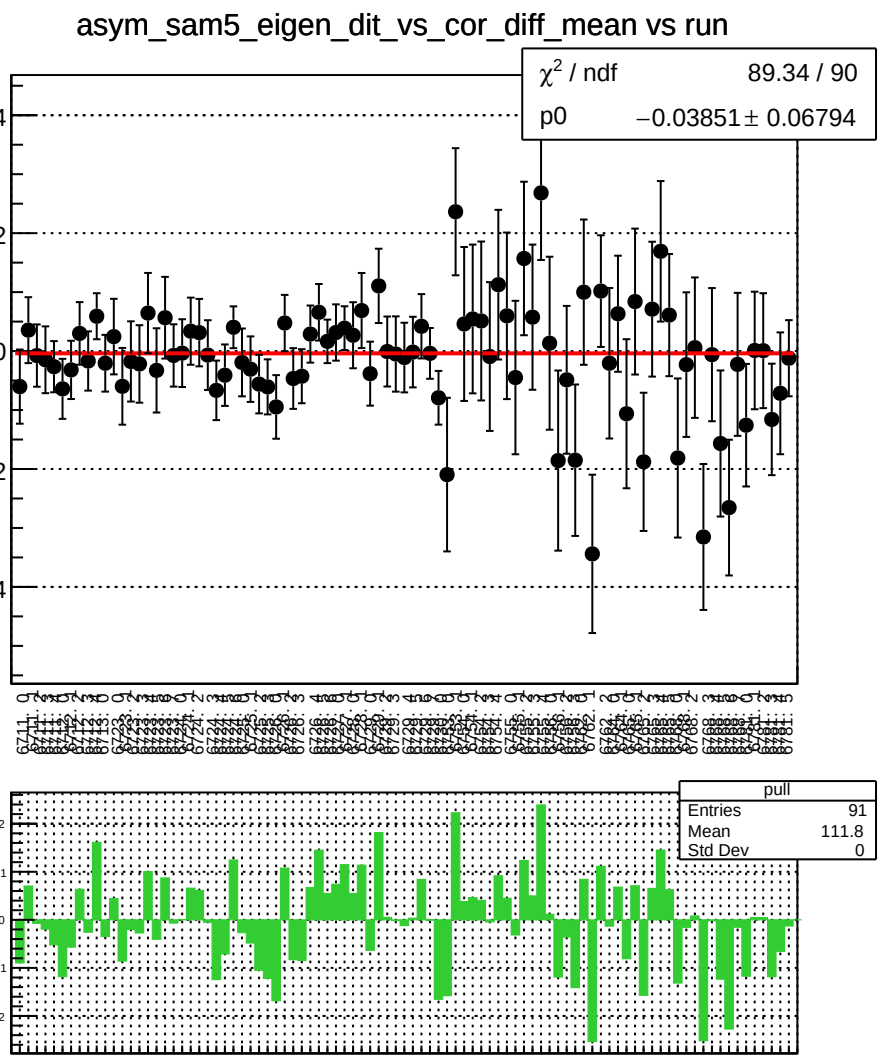

pull1D
Entries 91
Mean −0.046
Std Dev 0.9898

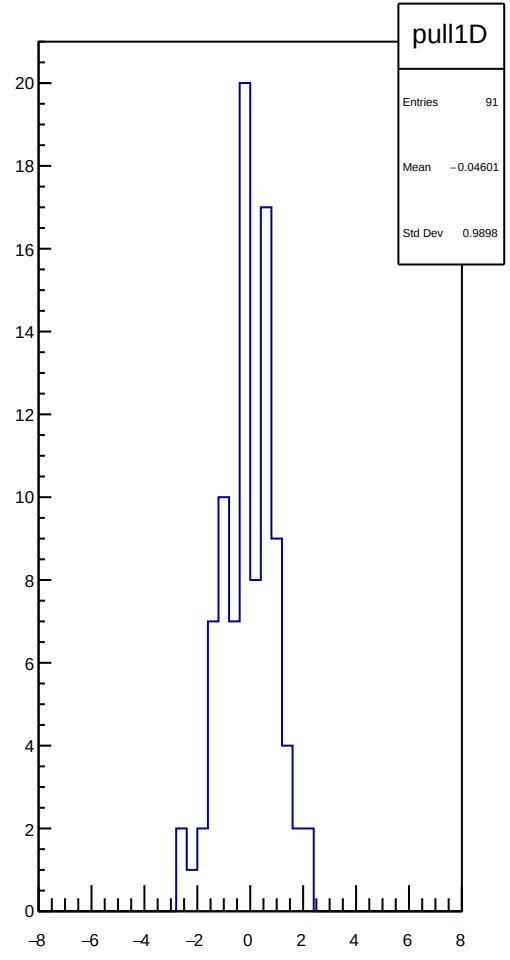

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.325e+05 / 90
p0 60.23 ± 0.04804
140
120
100
80
60
40

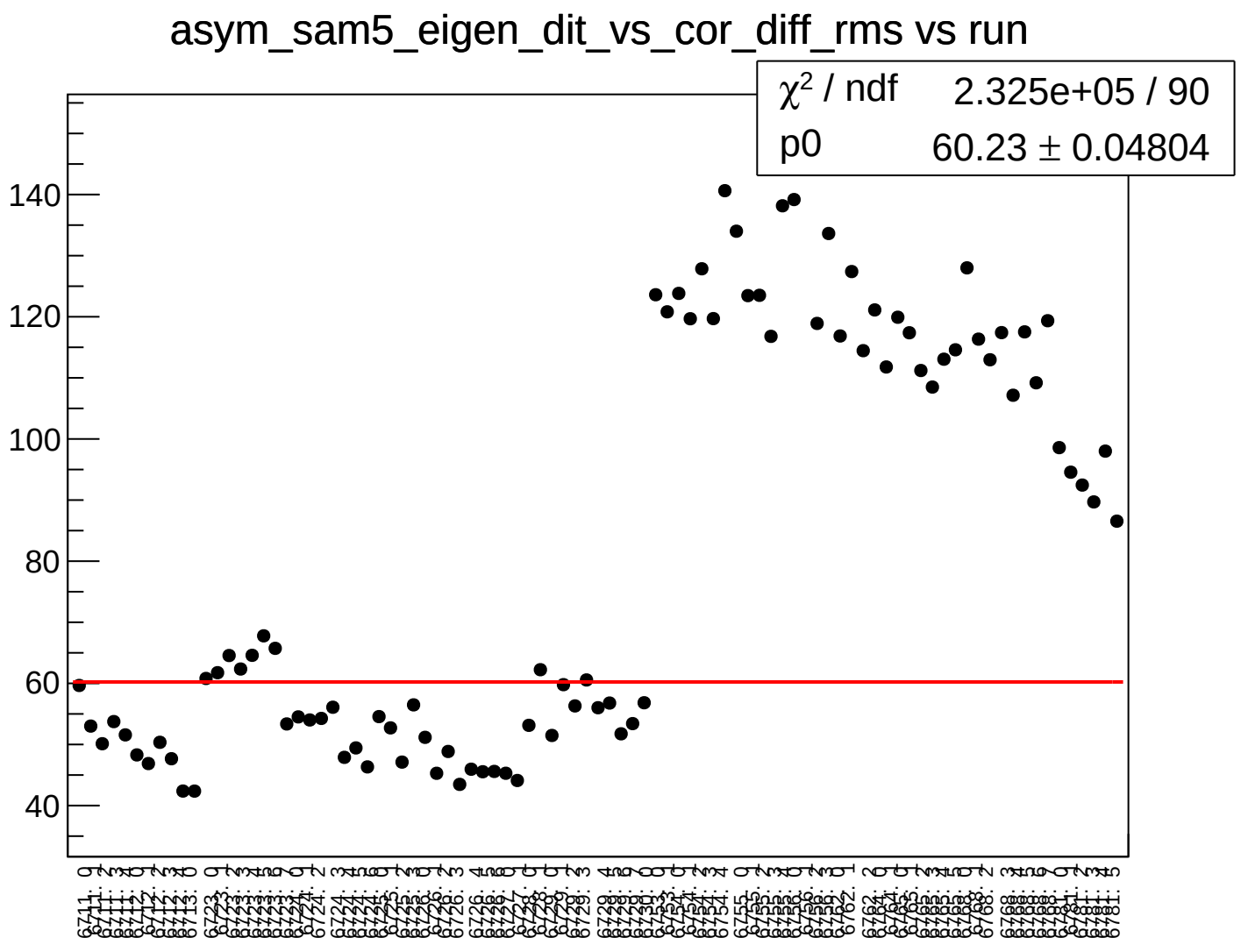

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.19 / 90
p0 −4.924e−06 ± 3.212e−06
pull
Entries 91
Mean 173.7
Std Dev 0

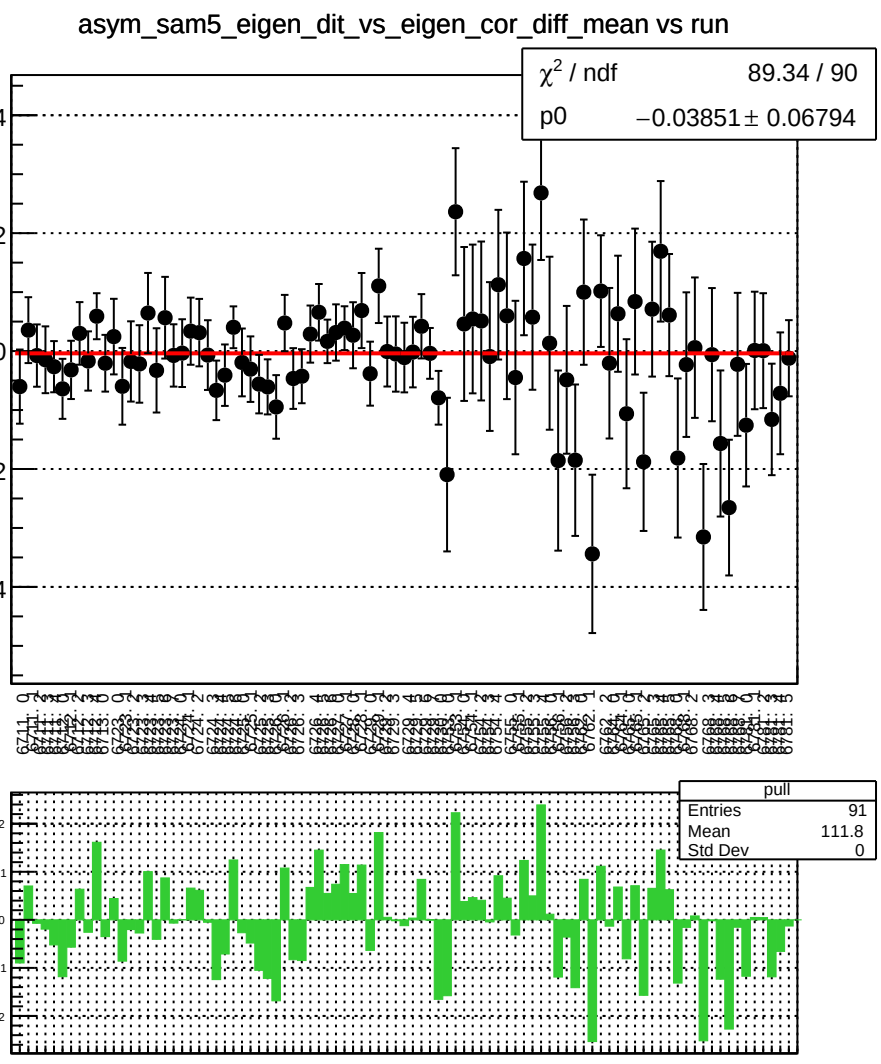

pull1D
Entries 91
Mean −0.01032
Std Dev 1.028

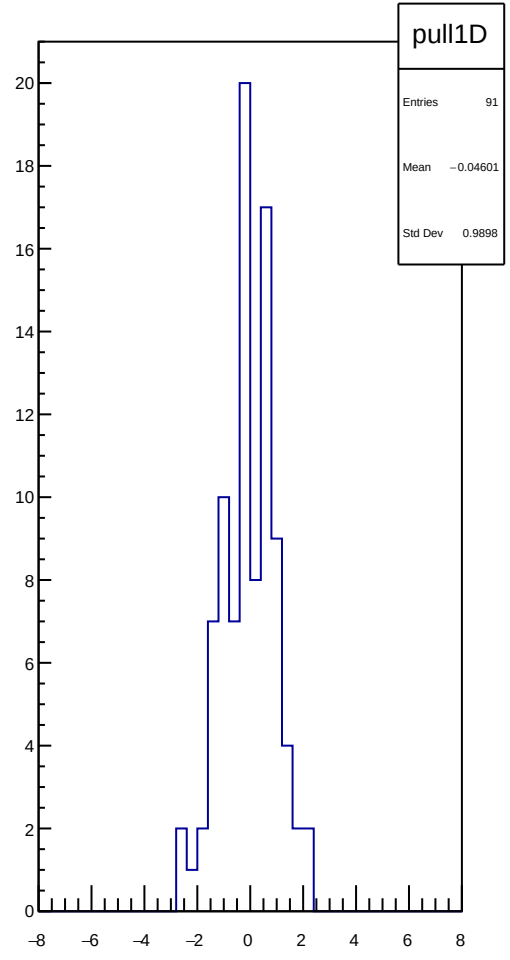

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.661e+04 / 90
p0 0.003003 ± 2.271e−06
0.007
0.006
0.005
0.004
0.003
0.002

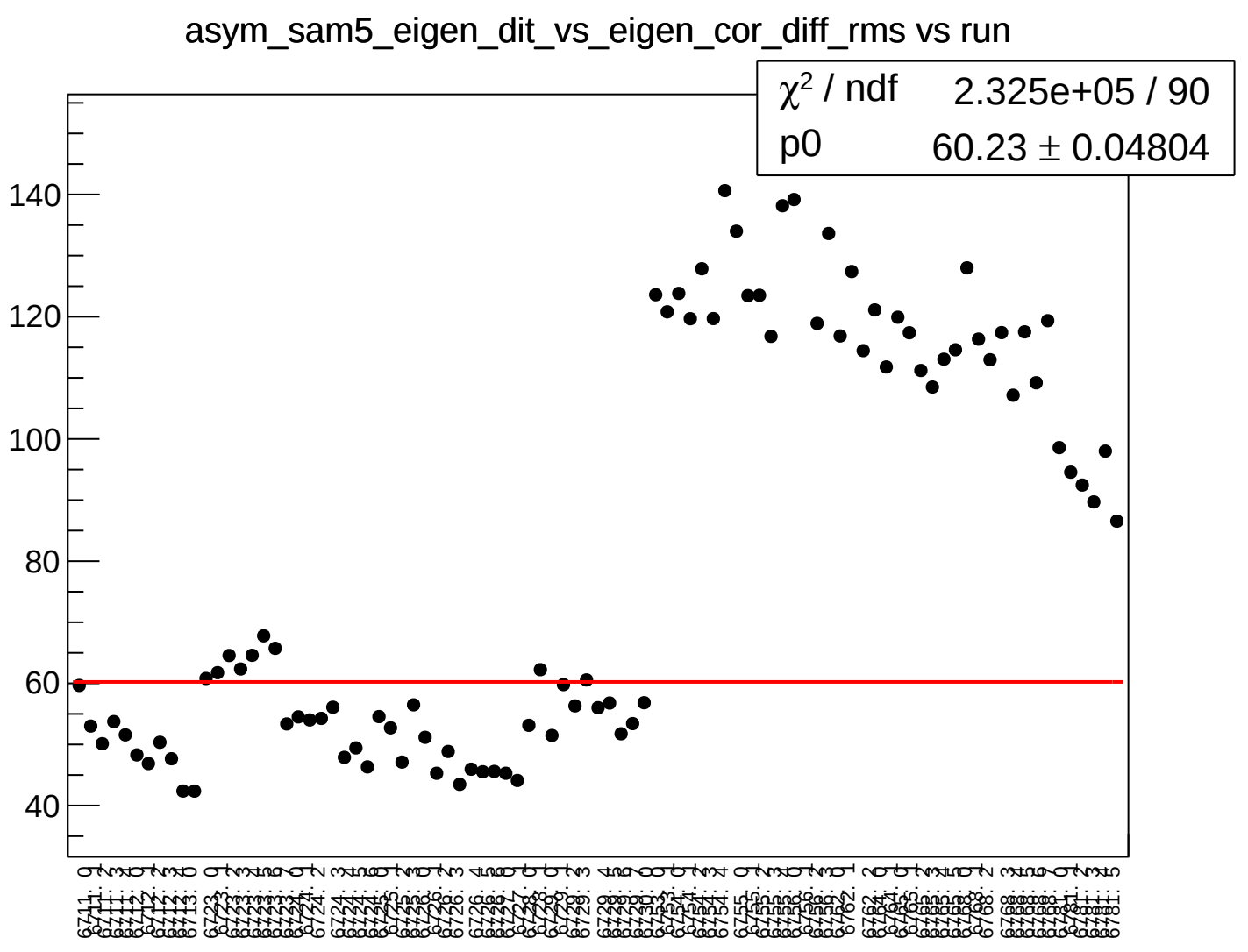

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.34 / 90
p0 −0.03851 ± 0.06794
pull
Entries 91
Mean 111.8
Std Dev 0

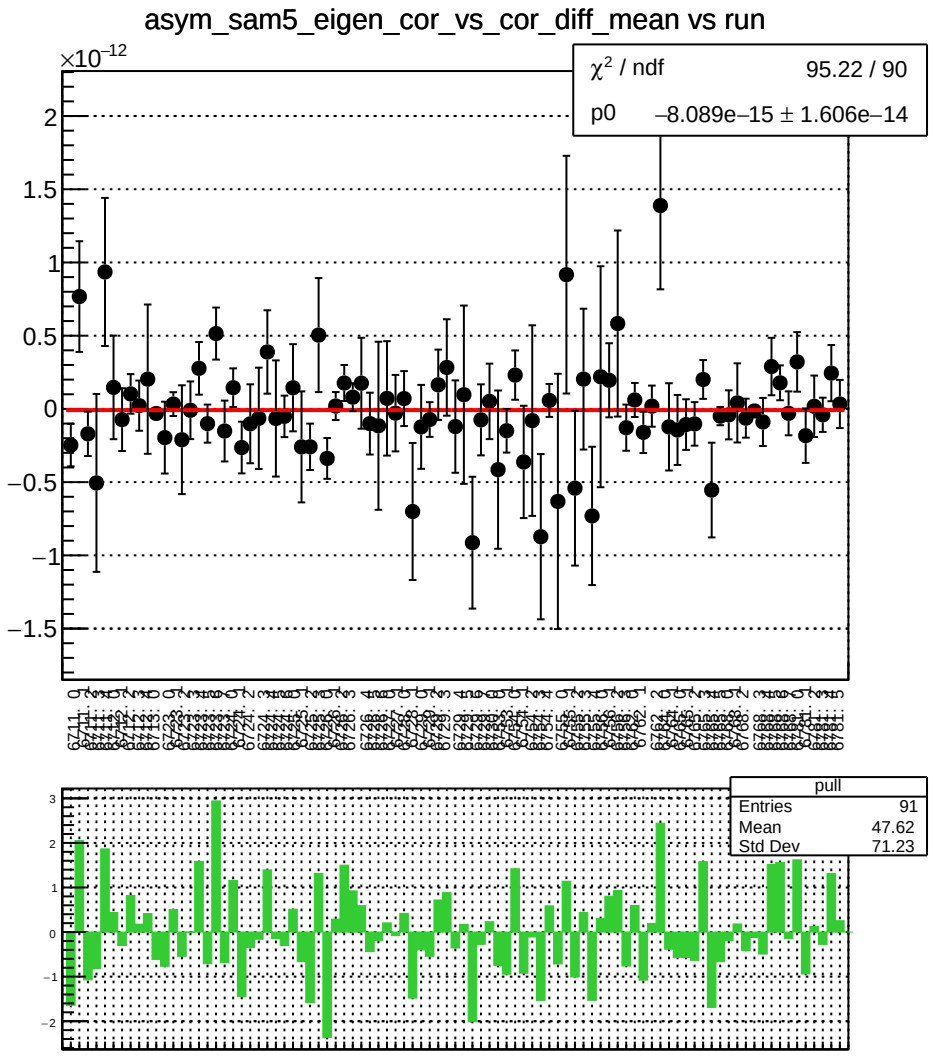

pull1D
Entries 91
Mean −0.04601
Std Dev 0.9898

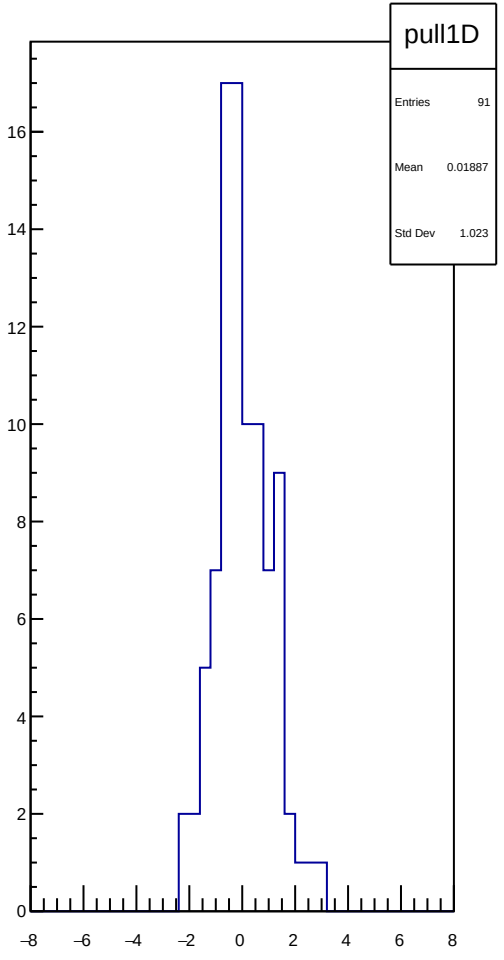

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.325e+05 / 90
p0 60.23 ± 0.04804
140
120
100
80
60
40

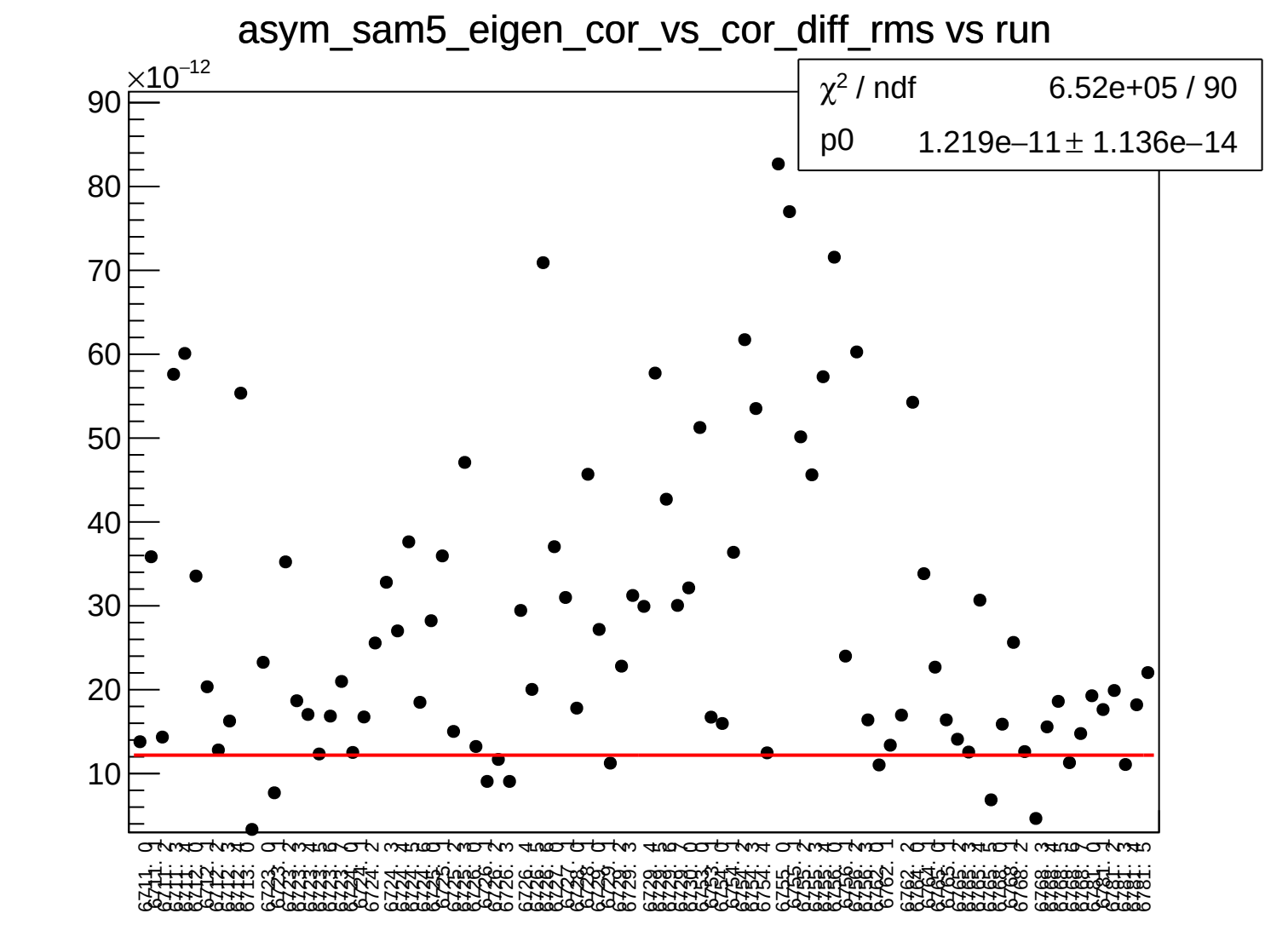

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.34 / 90
p0 −0.03851 ± 0.06794
pull
Entries 91
Mean 111.8
Std Dev 0

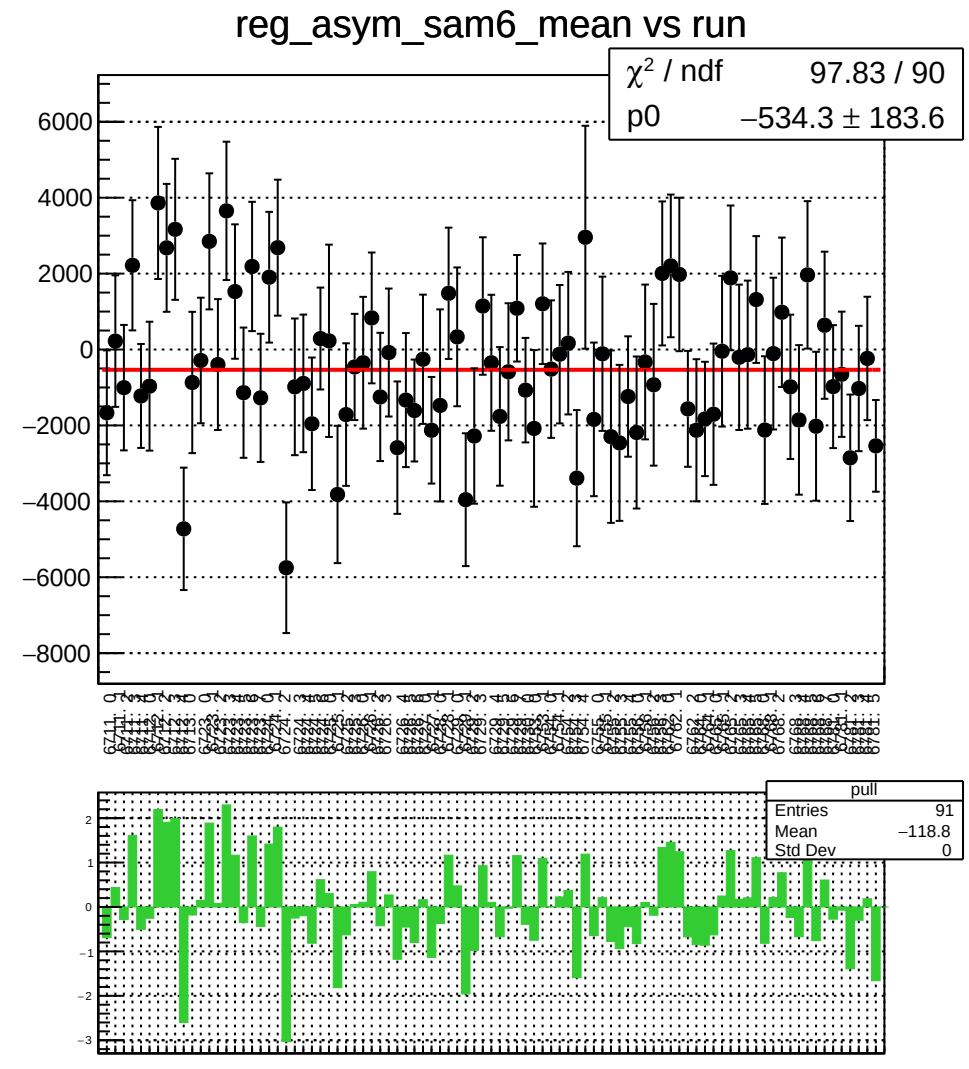

pull1D
Entries 91
Mean −0.04601
Std Dev 0.9898

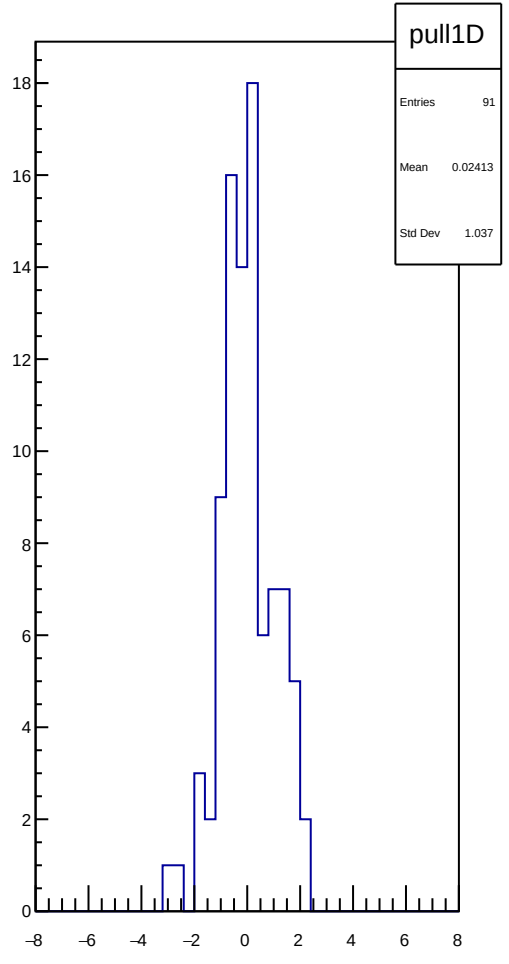

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.325e+05 / 90
p0 60.23 ± 0.04804
140
120
100
80
60
40

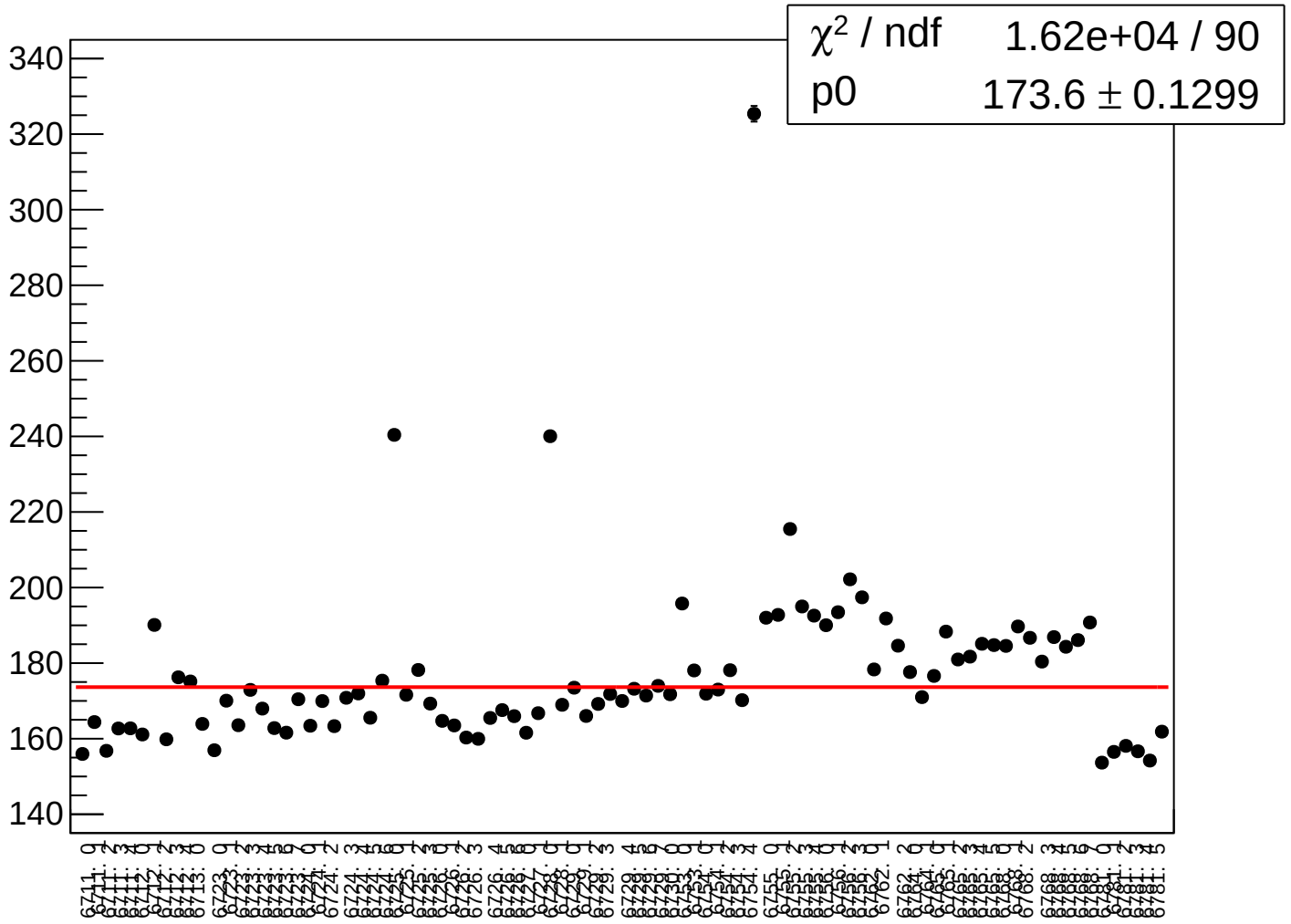

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.22 / 90
p0 −8.089e−15 ± 1.606e−14
pull
Entries 91
Mean 47.62
Std Dev 71.23

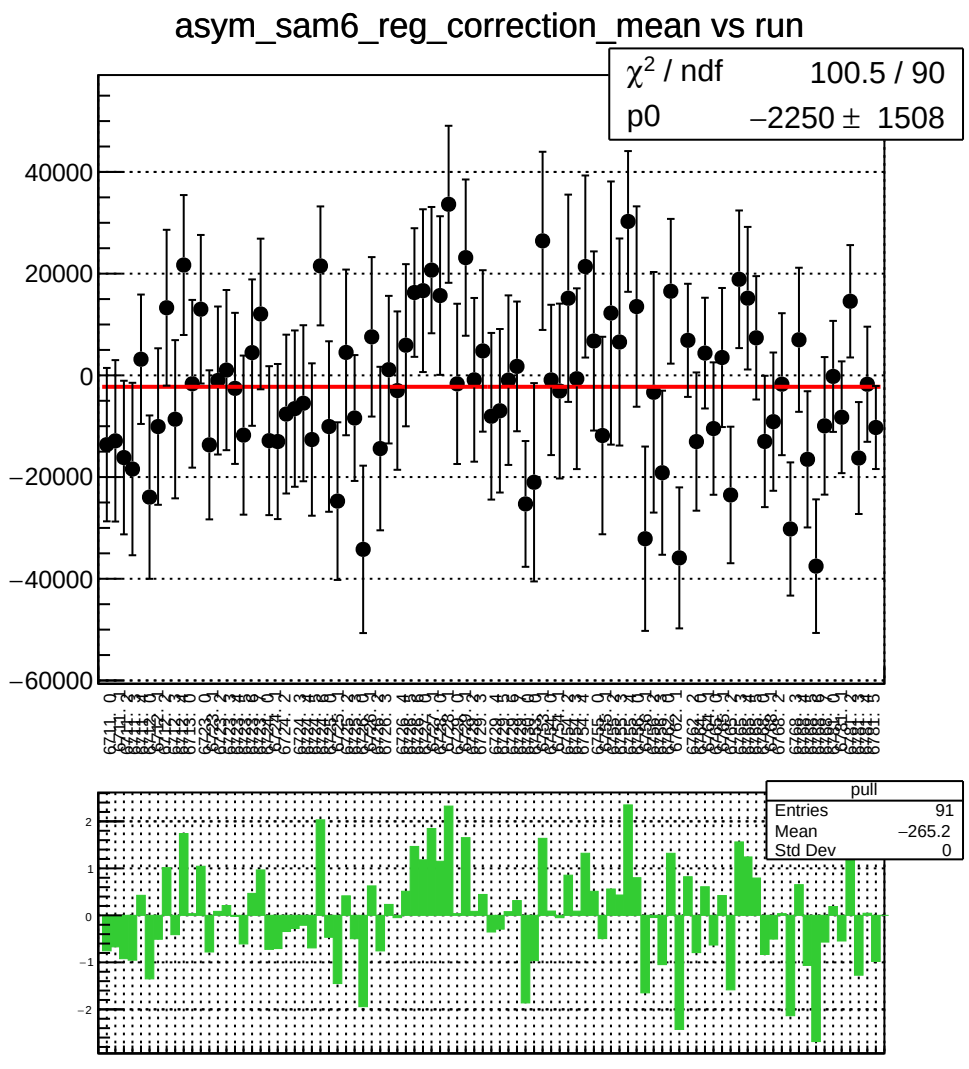

pull1D
Entries 91
Mean 0.01887
Std Dev 1.023

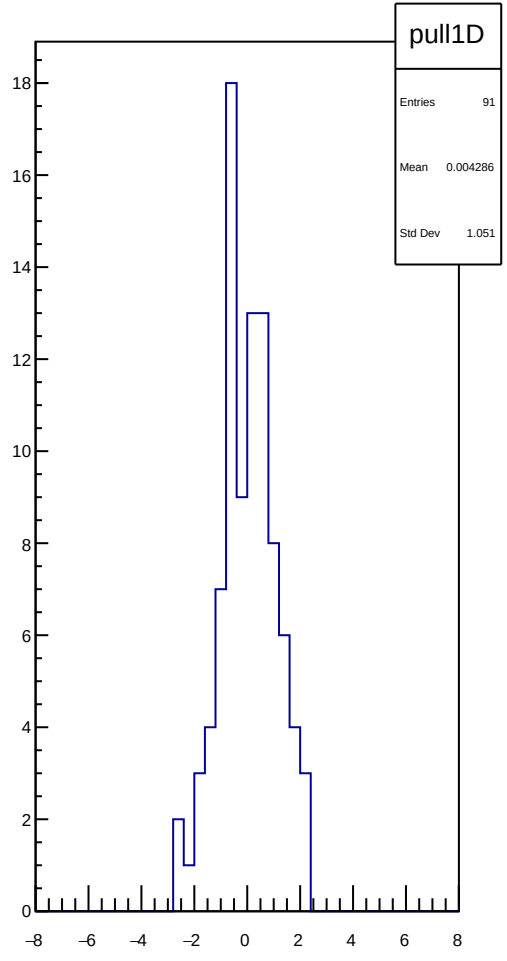

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.52e+05 / 90
p0 1.219e−11 ± 1.136e−14
90
80
70
60
50
40
30
20
10

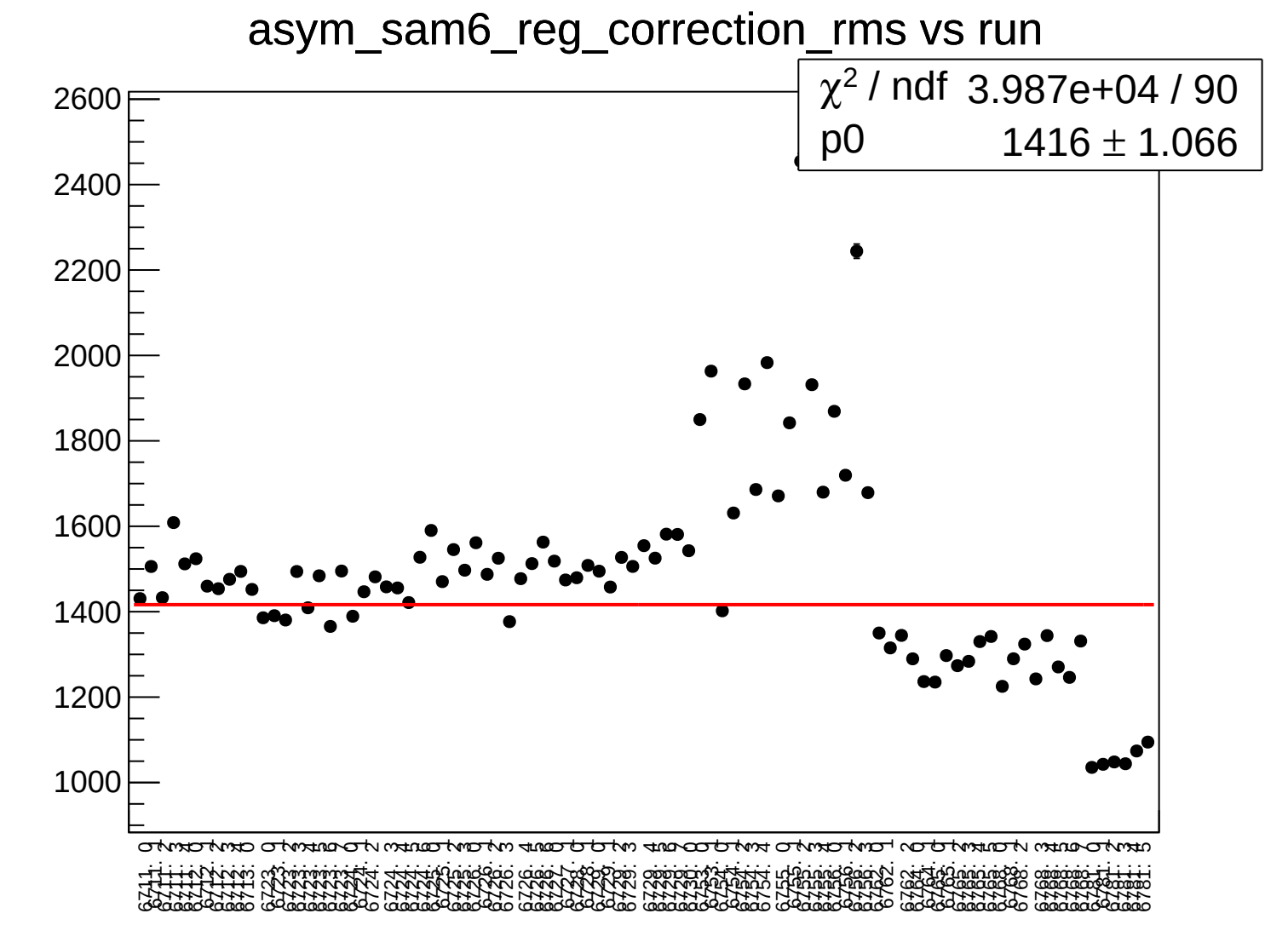

reg_asym_sam6_mean vs run
χ² / ndf 97.83 / 90
p0 −534.3 ± 183.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 91
Mean −118.8
Std Dev 0
2
1
0
−1
−2
−3

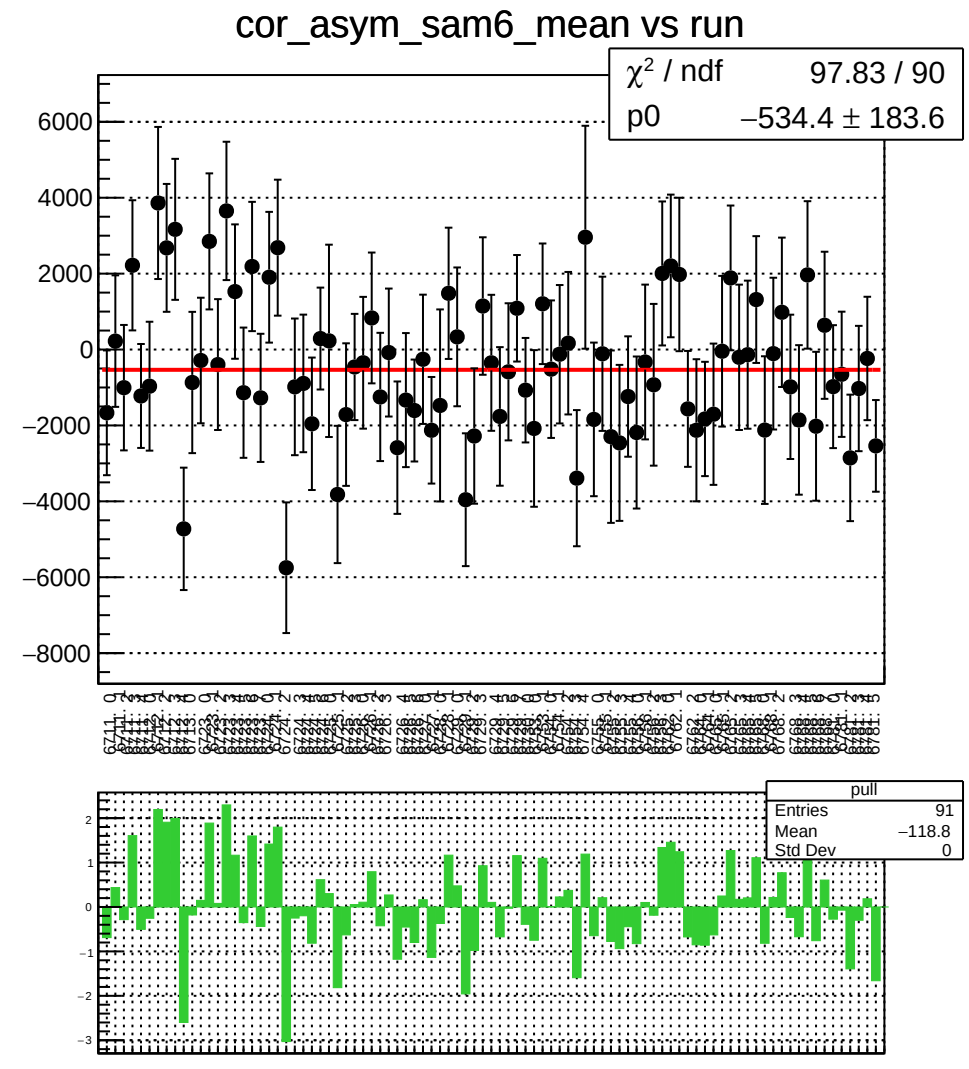

pull1D
Entries 91
Mean 0.02413
Std Dev 1.037
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

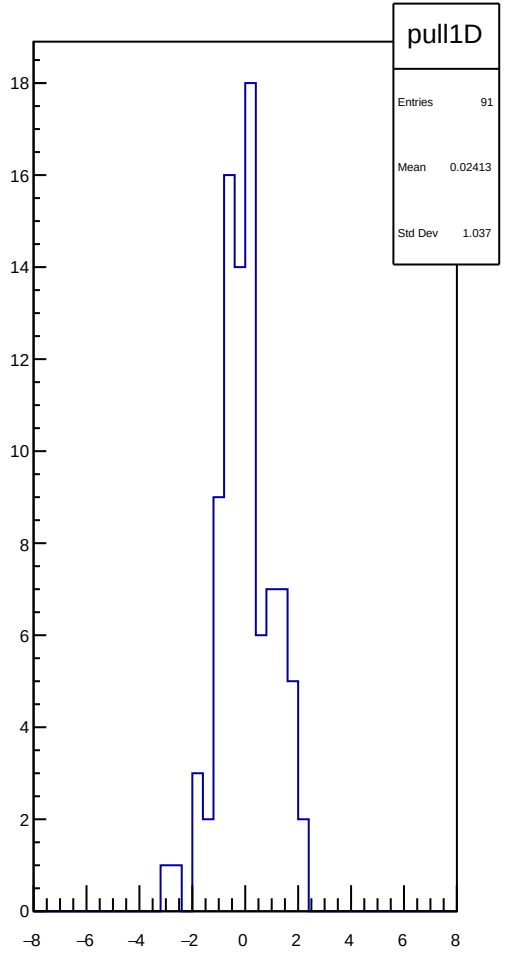

reg_asym_sam6_rms vs run
χ² / ndf 1.62e+04 / 90
p0 173.6 ± 0.1299
340
320
300
280
260
240
220
200
180
160
140

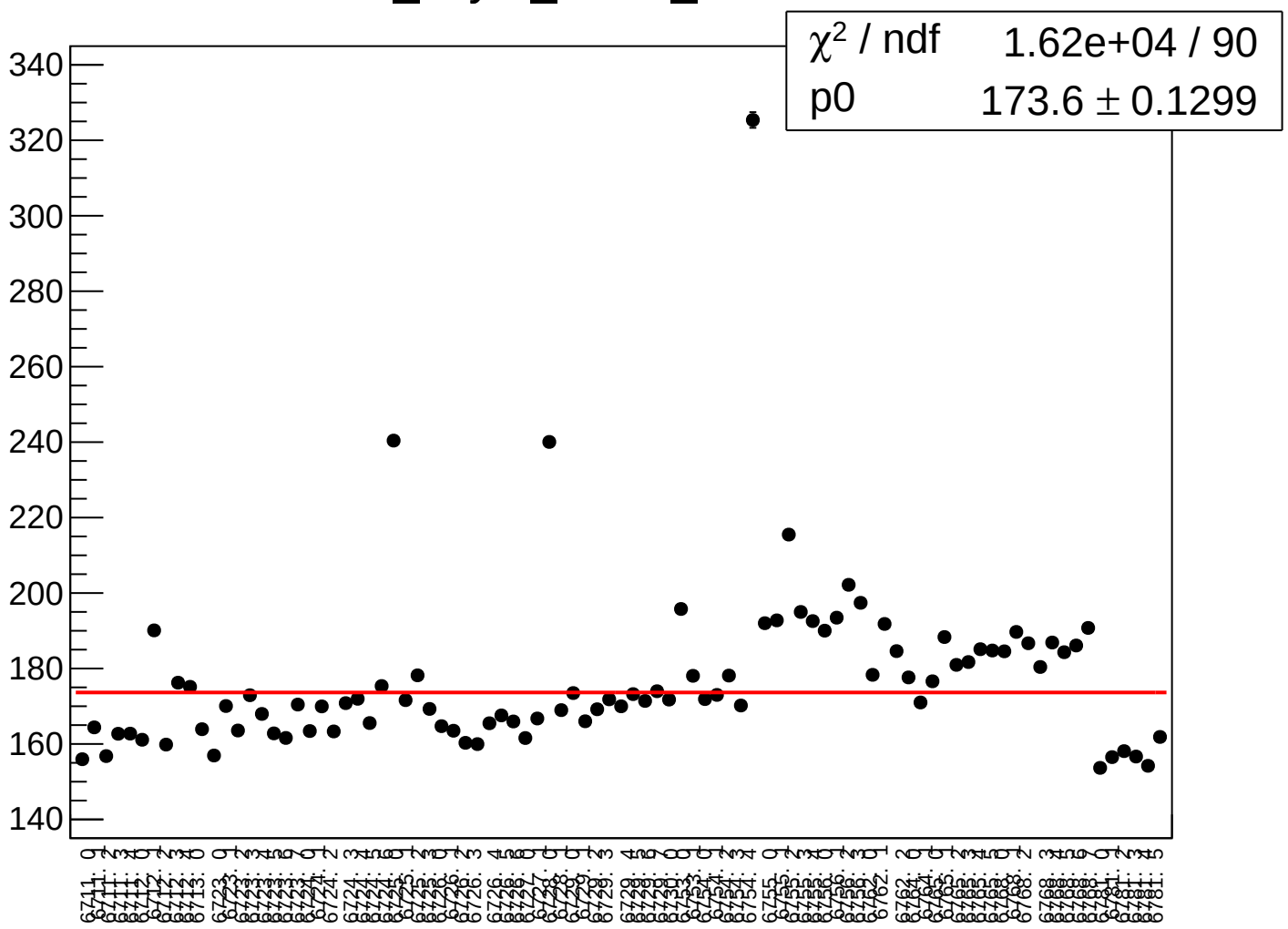

asym_sam6_reg_correction_mean vs run
χ² / ndf 100.5 / 90
p0 −2250 ± 1508
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −265.2
Std Dev 0
2
1
0
−1
−2

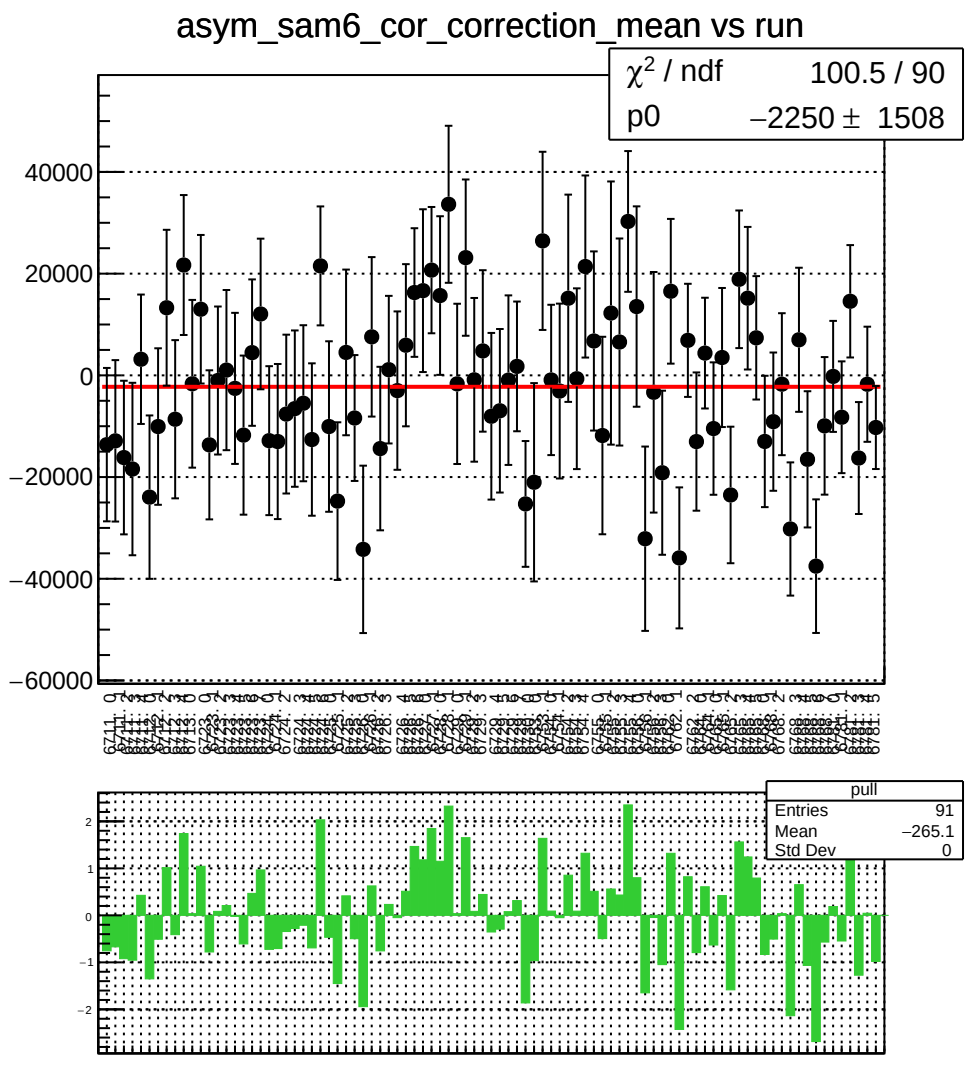

pull1D
Entries 91
Mean 0.004286
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

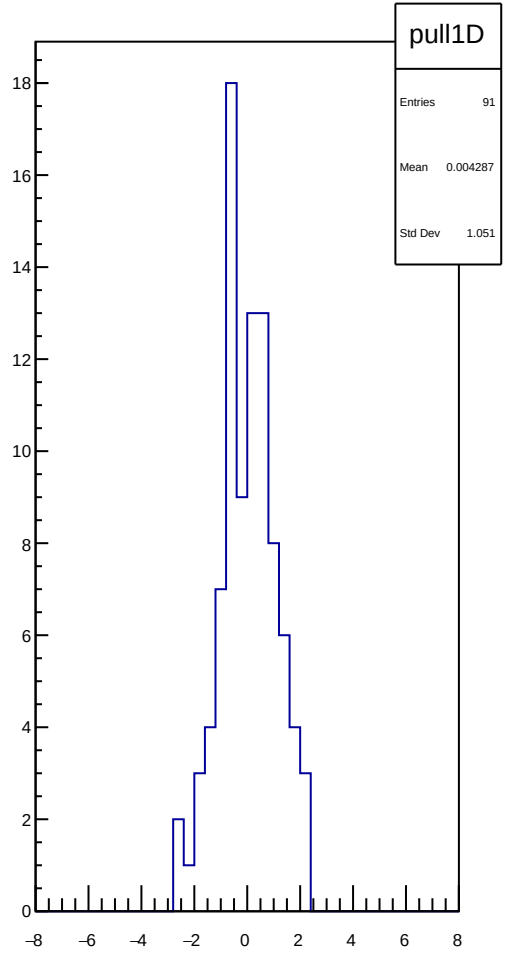

asym_sam6_reg_correction_rms vs run
χ² / ndf 3.987e+04 / 90
p0 1416 ± 1.066
2600
2400
2200
2000
1800
1600
1400
1200
1000

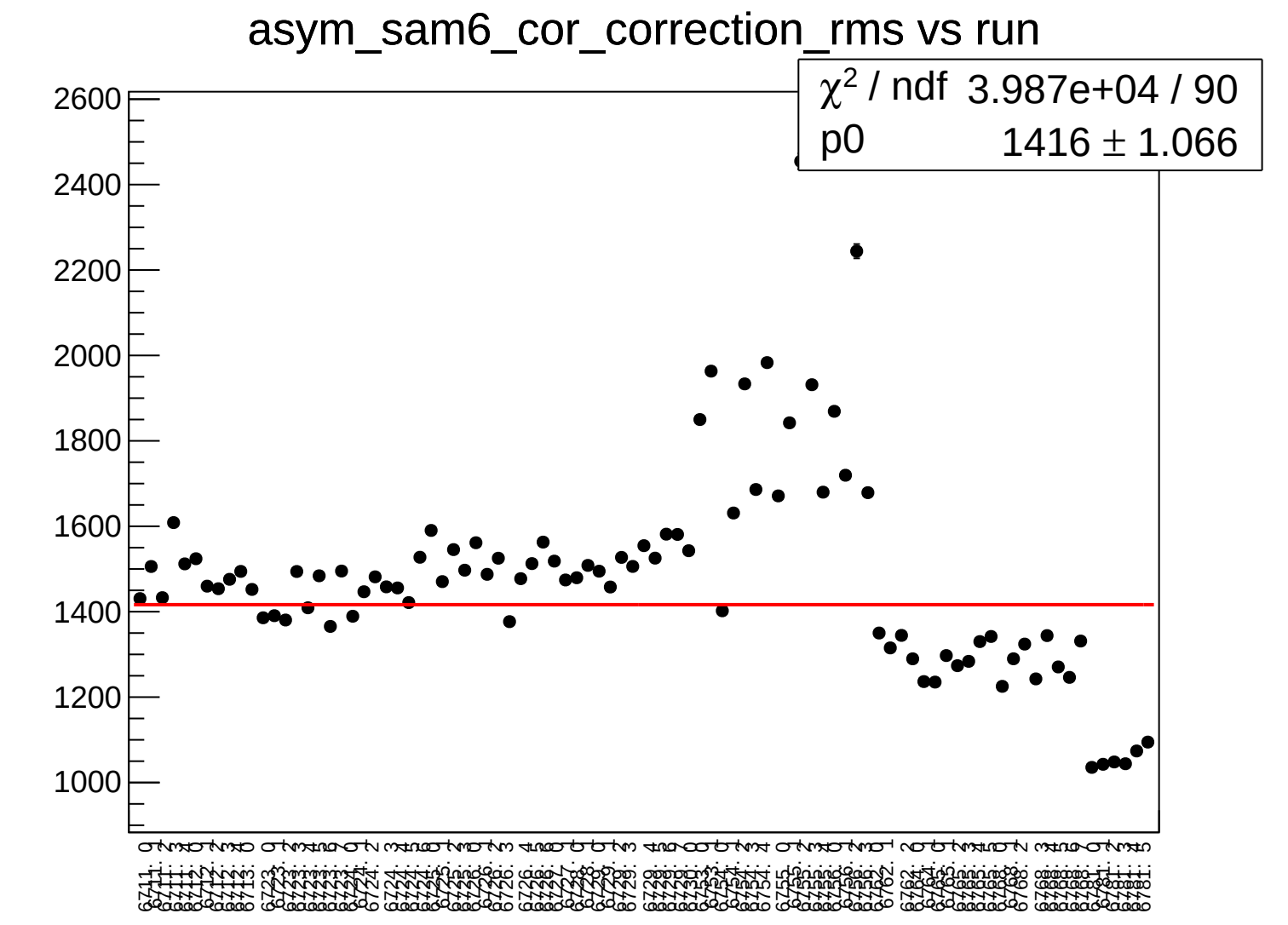

cor_asym_sam6_mean vs run
χ² / ndf 97.83 / 90
p0 −534.4 ± 183.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 91
Mean −118.8
Std Dev 0
2
1
0
−1
−2
−3

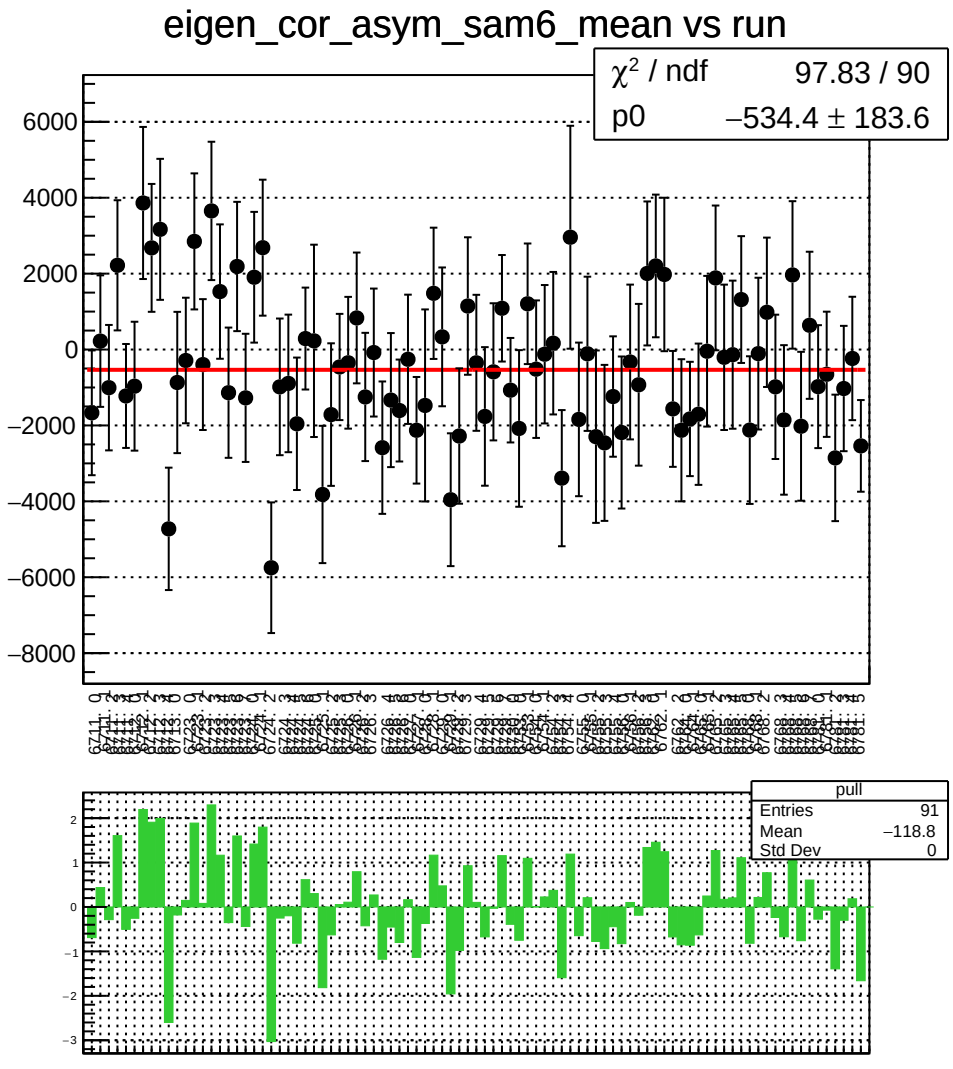

pull1D
Entries 91
Mean 0.02413
Std Dev 1.037
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

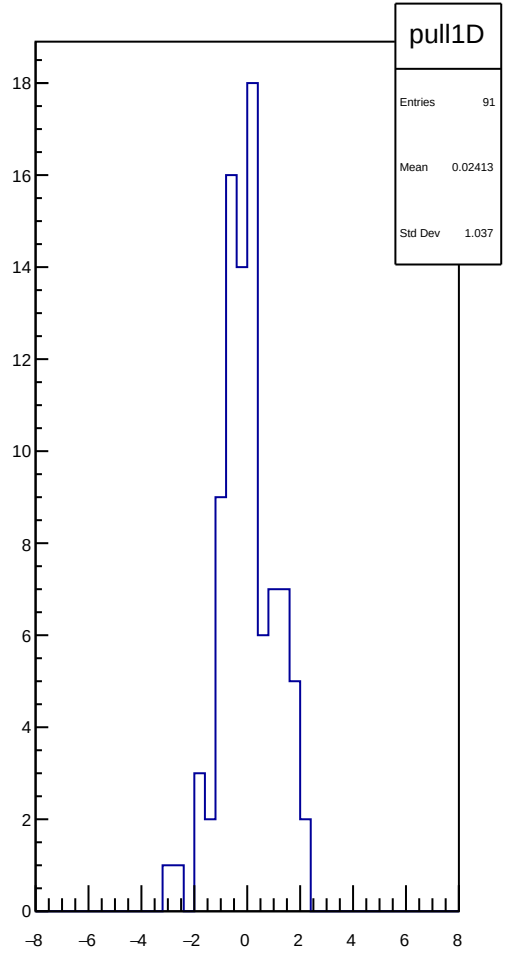

cor_asym_sam6_rms vs run
χ² / ndf 1.62e+04 / 90
p0 173.6 ± 0.1299
340
320
300
280
260
240
220
200
180
160
140

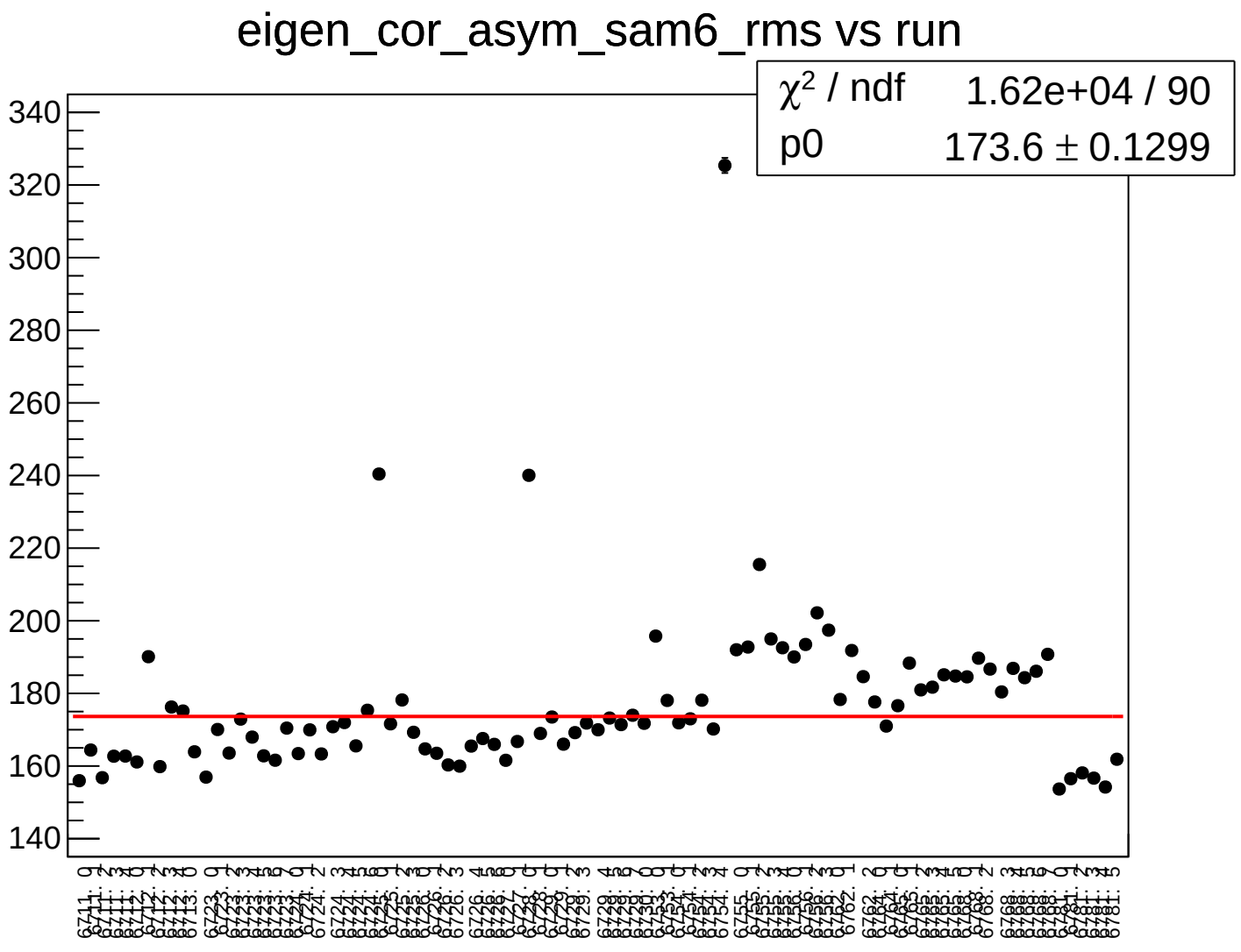

asym_sam6_cor_correction_mean vs run
χ² / ndf 100.5 / 90
p0 −2250 ± 1508
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −265.1
Std Dev 0
2
1
0
−1
−2

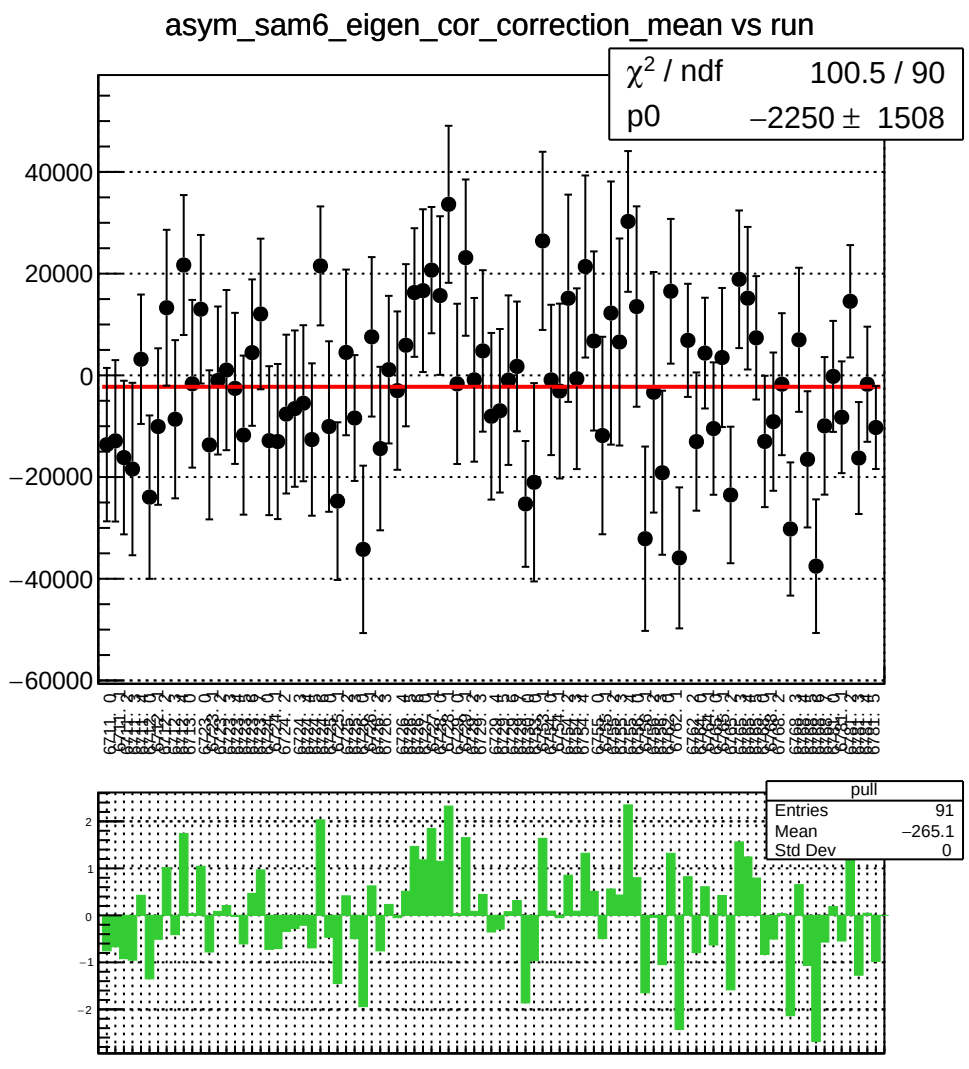

pull1D
Entries 91
Mean 0.004287
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

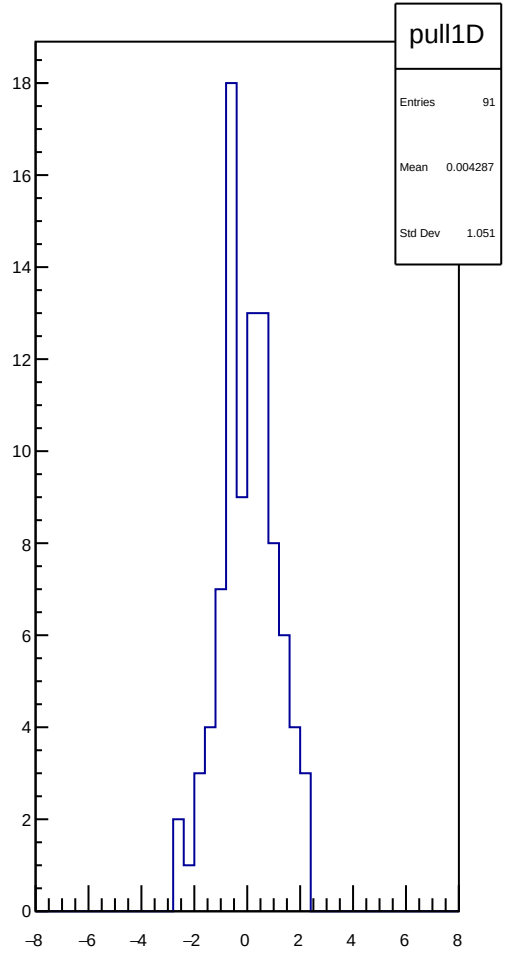

asym_sam6_cor_correction_rms vs run
χ² / ndf 3.987e+04 / 90
p0 1416 ± 1.066
2600
2400
2200
2000
1800
1600
1400
1200
1000

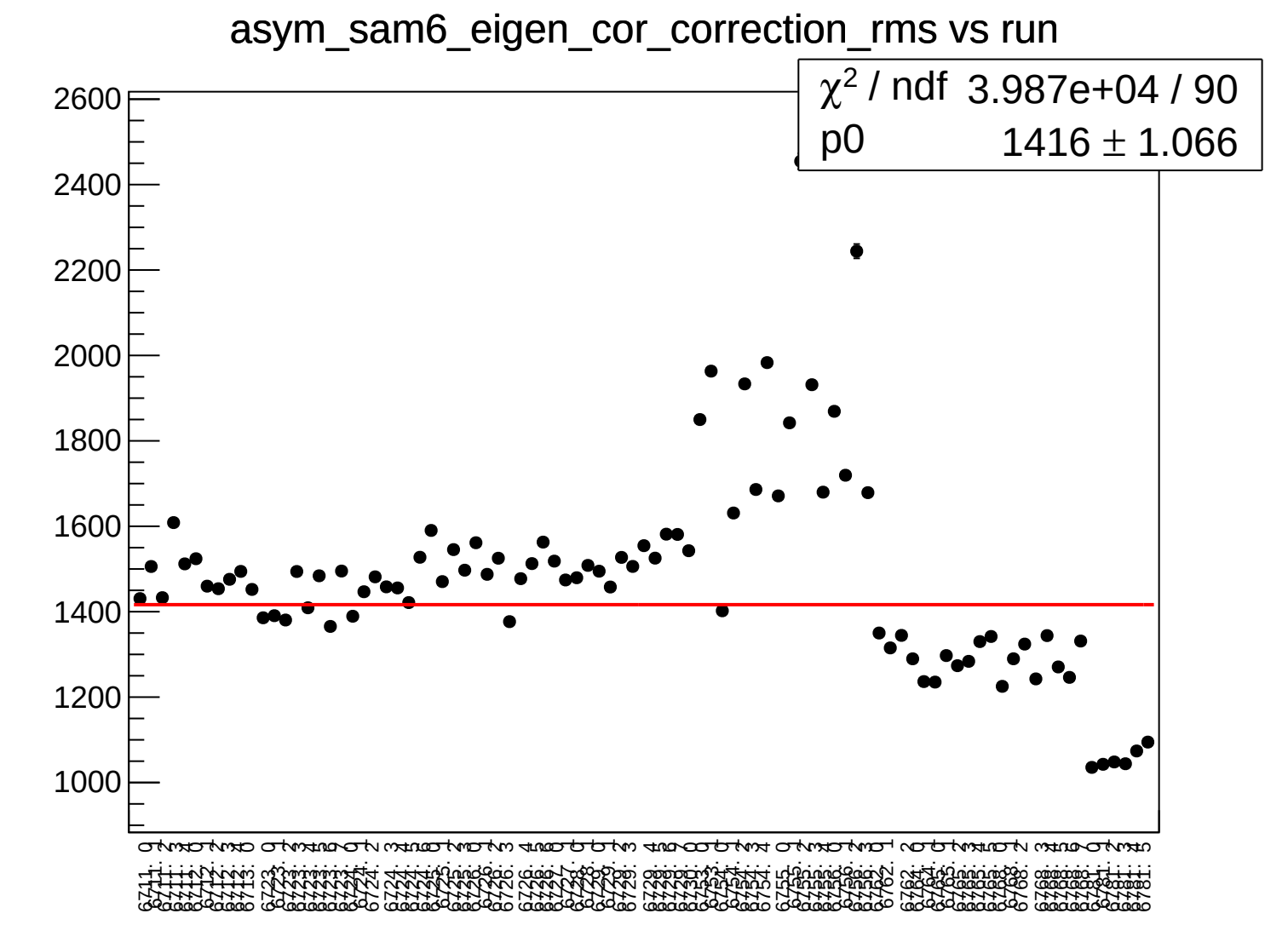

eigen_cor_asym_sam6_mean vs run
χ² / ndf 97.83 / 90
p0 −534.4 ± 183.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 91
Mean −118.8
Std Dev 0
2
1
0
−1
−2
−3

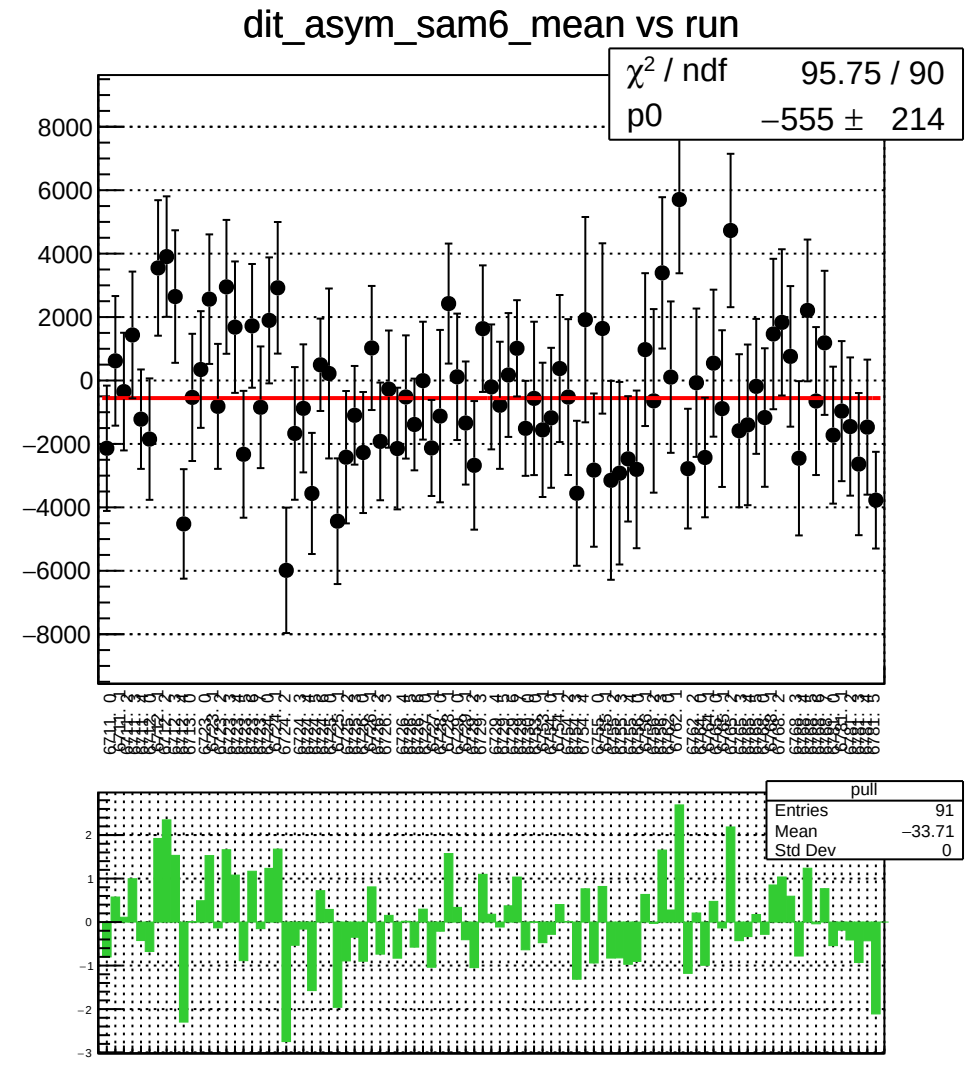

pull1D
Entries 91
Mean 0.02413
Std Dev 1.037
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

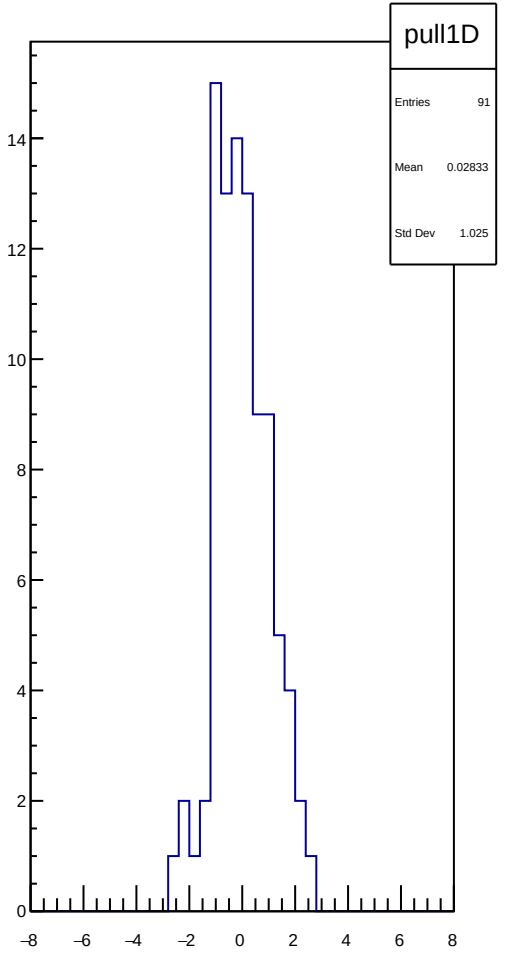

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1.62e+04 / 90
p0 173.6 ± 0.1299
340
320
300
280
260
240
220
200
180
160
140

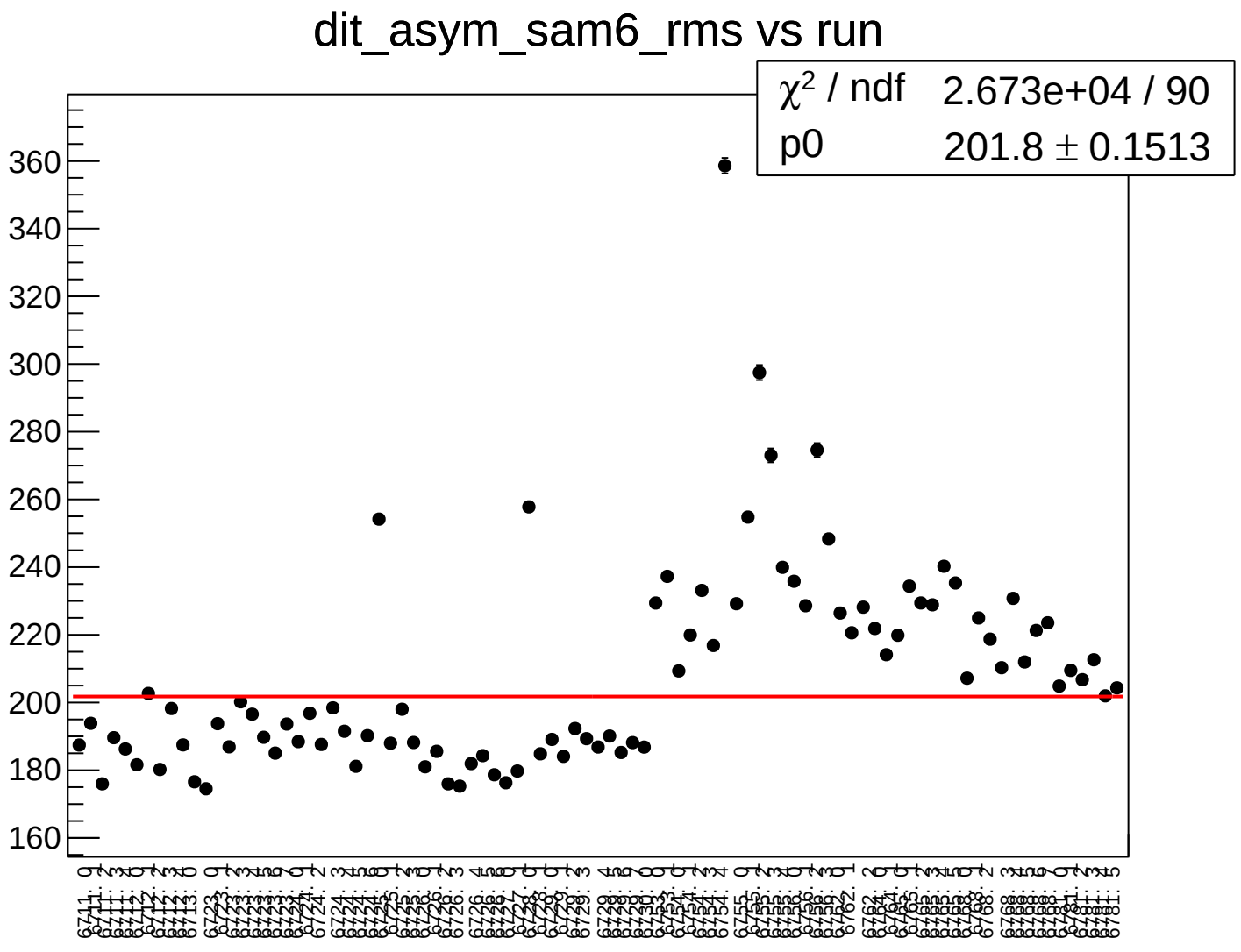

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 100.5 / 90
p0 −2250 ± 1508
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean −265.1
Std Dev 0
2
1
0
−1
−2

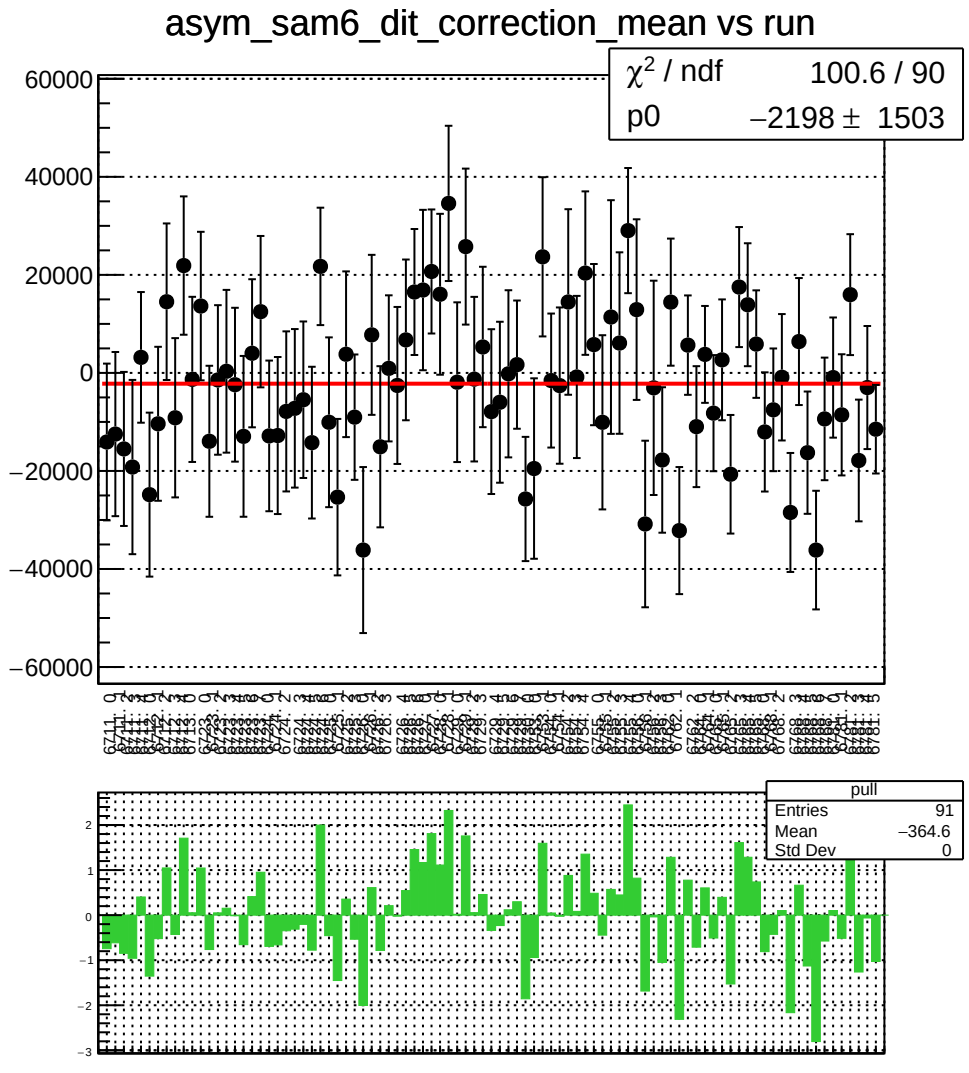

pull1D
Entries 91
Mean 0.004287
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

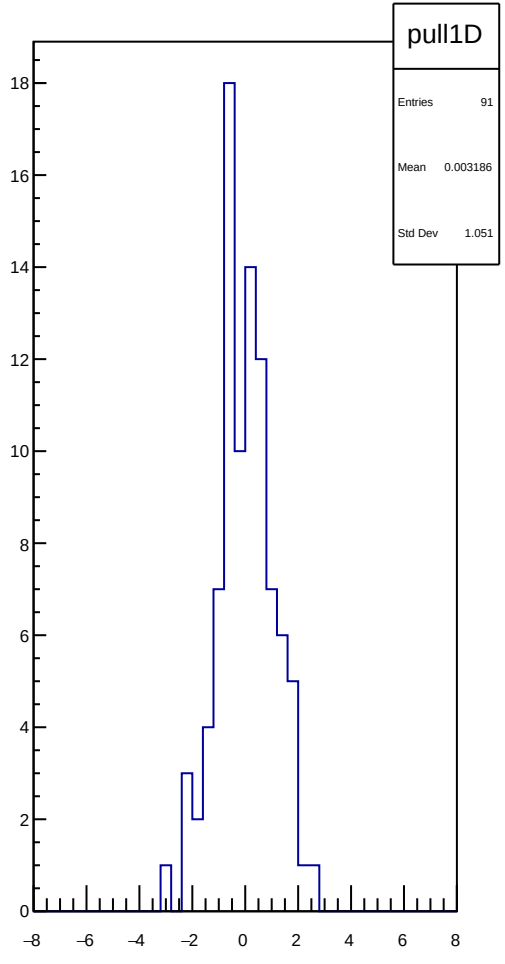

asym_sam6_eigen_cor_correction_rms vs run
χ^2 / ndf 3.987e+04 / 90
p0 1416 ± 1.066
2600
2400
2200
2000
1800
1600
1400
1200
1000

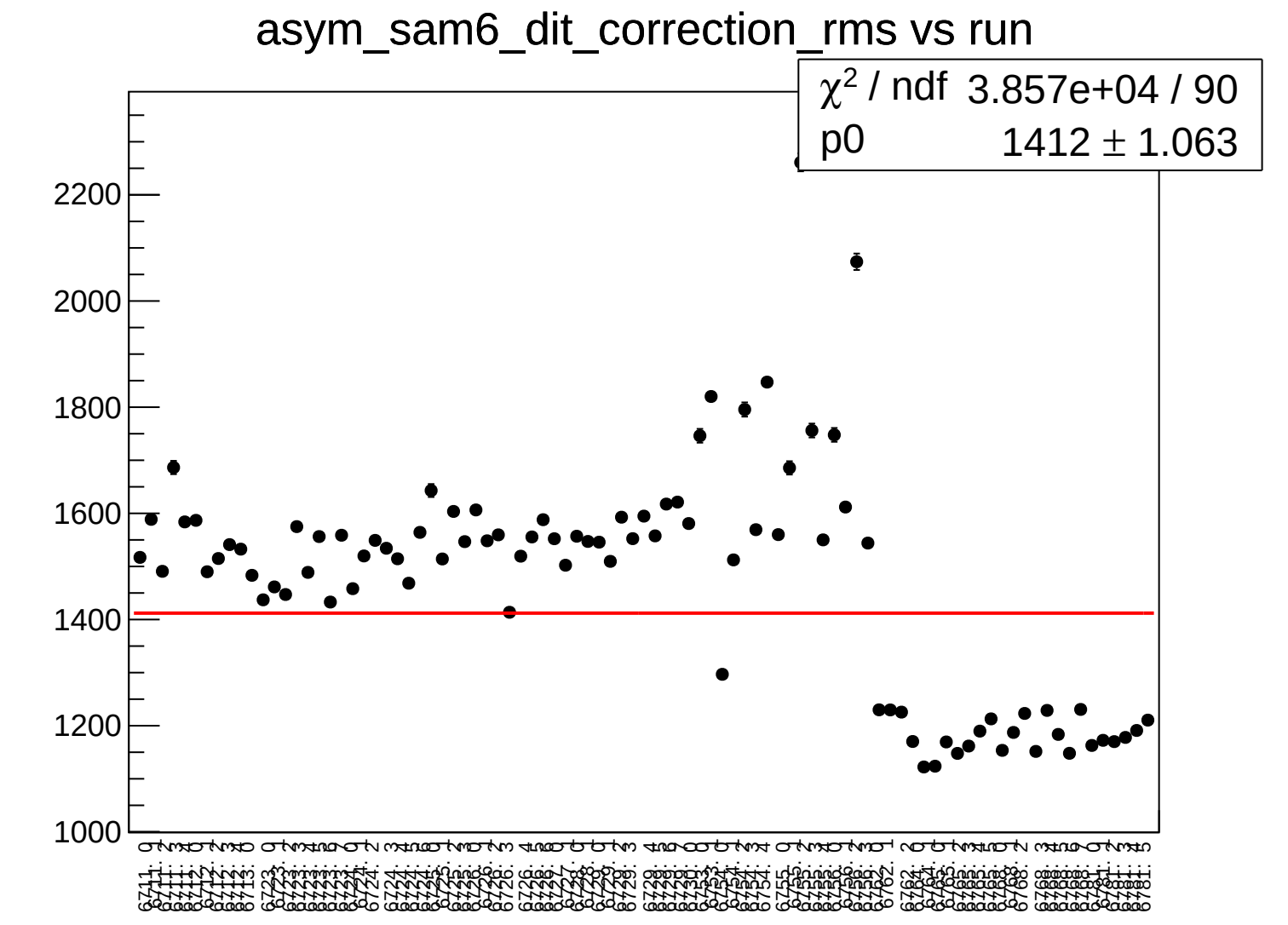

dit_asym_sam6_mean vs run
χ² / ndf 95.75 / 90
p0 −555 ± 214
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 91
Mean −33.71
Std Dev 0
2
1
0
−1
−2
−3

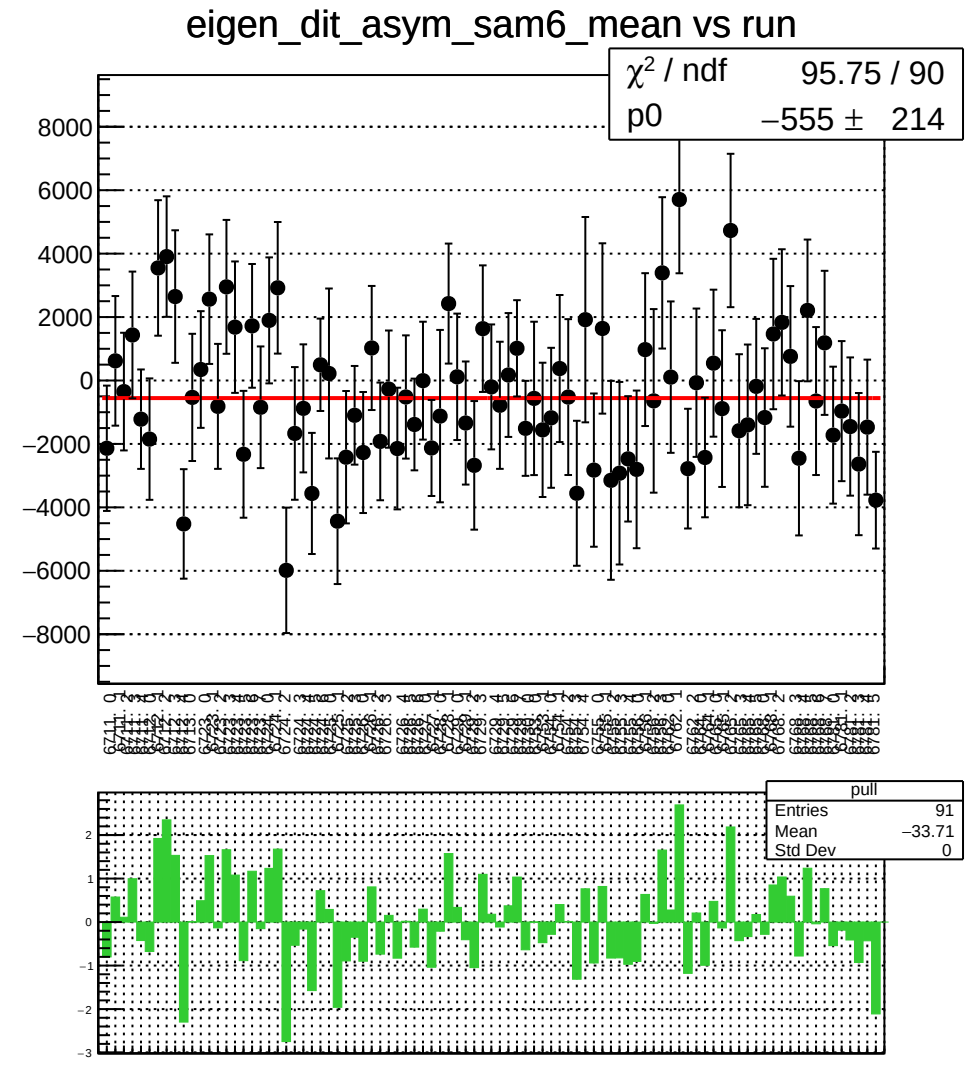

pull1D
Entries 91
Mean 0.02833
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

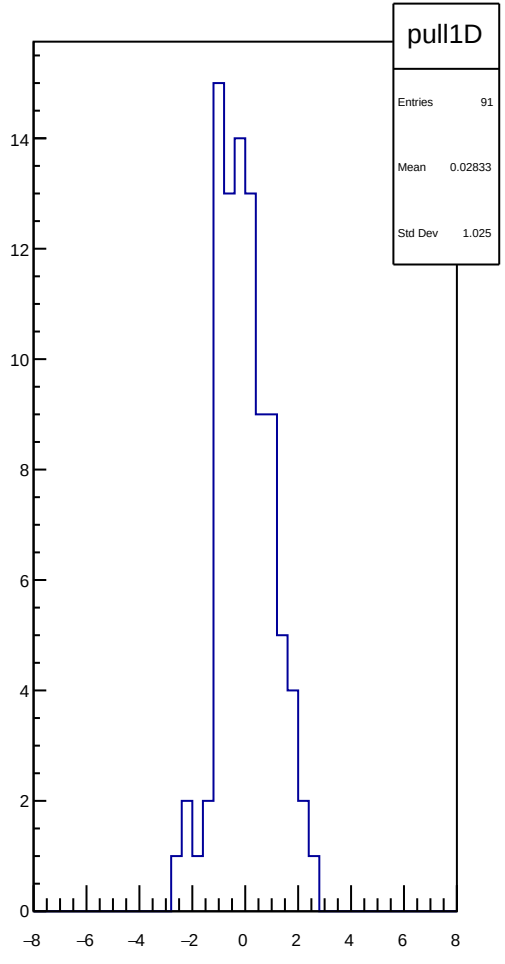

dit_asym_sam6_rms vs run
χ^2 / ndf 2.673e+04 / 90
p0 201.8 ± 0.1513
360
340
320
300
280
260
240
220
200
180
160

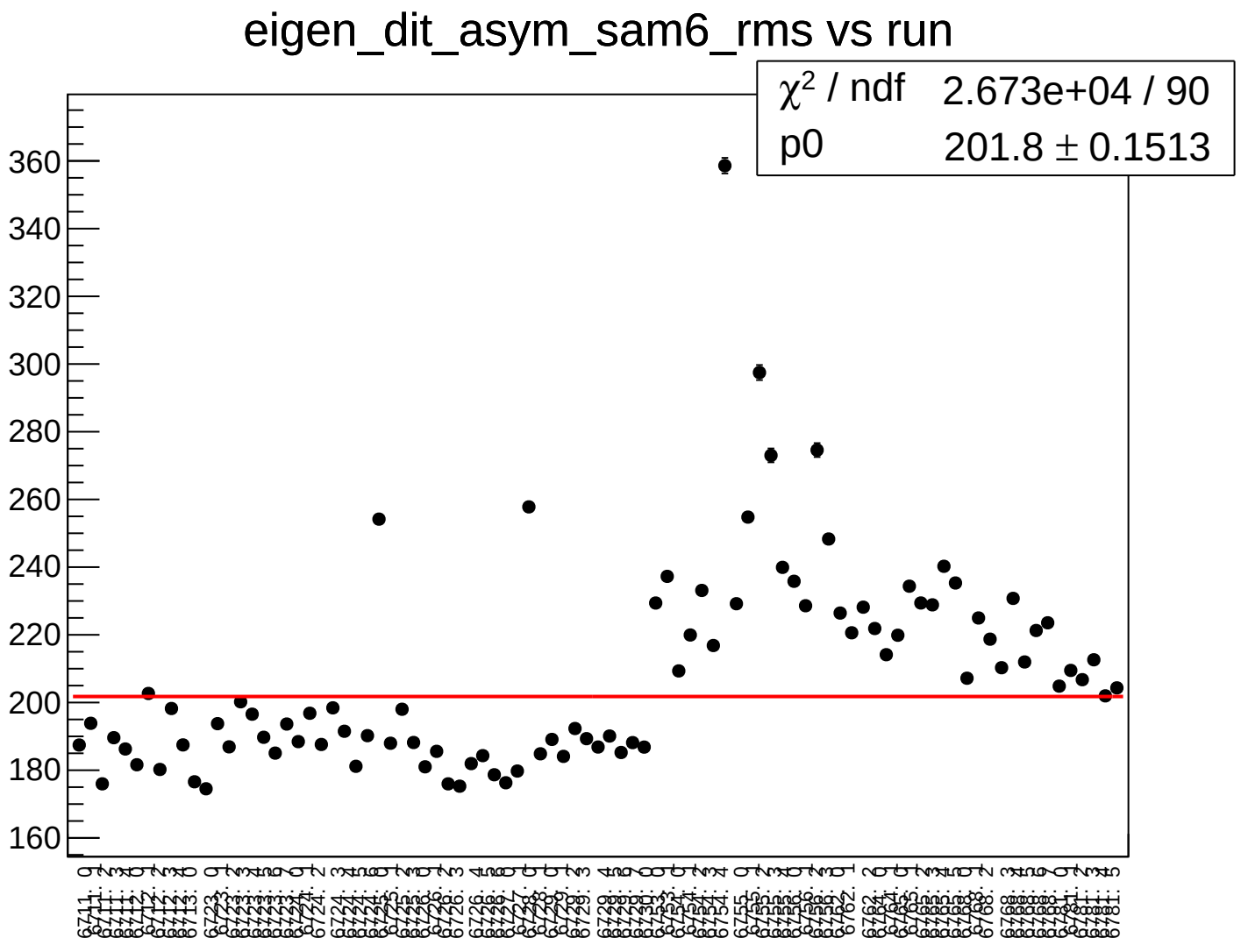

asym_sam6_dit_correction_mean vs run
χ² / ndf 100.6 / 90
p0 −2198 ± 1503
pull
Entries 91
Mean −364.6
Std Dev 0

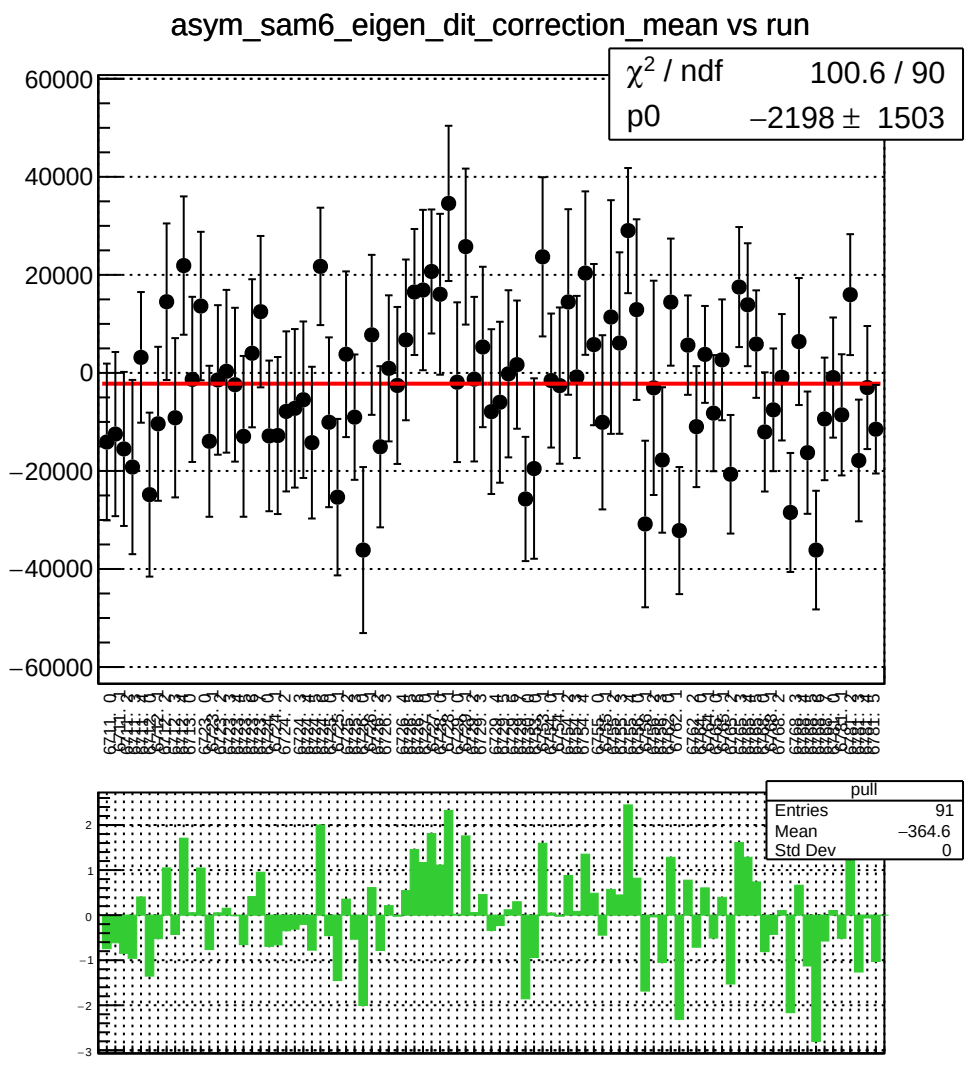

pull1D
Entries 91
Mean 0.003186
Std Dev 1.051

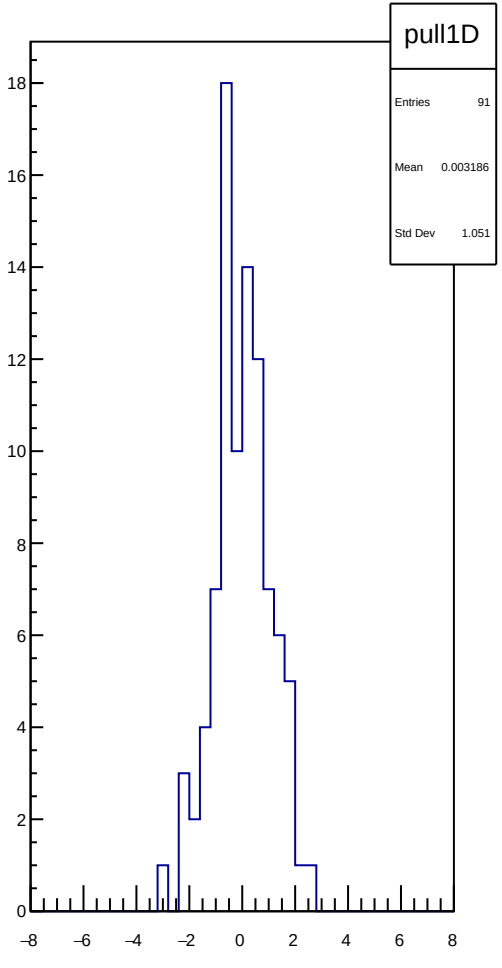

asym_sam6_dit_correction_rms vs run
χ² / ndf 3.857e+04 / 90
p0 1412 ± 1.063
2200
2000
1800
1600
1400
1200
1000

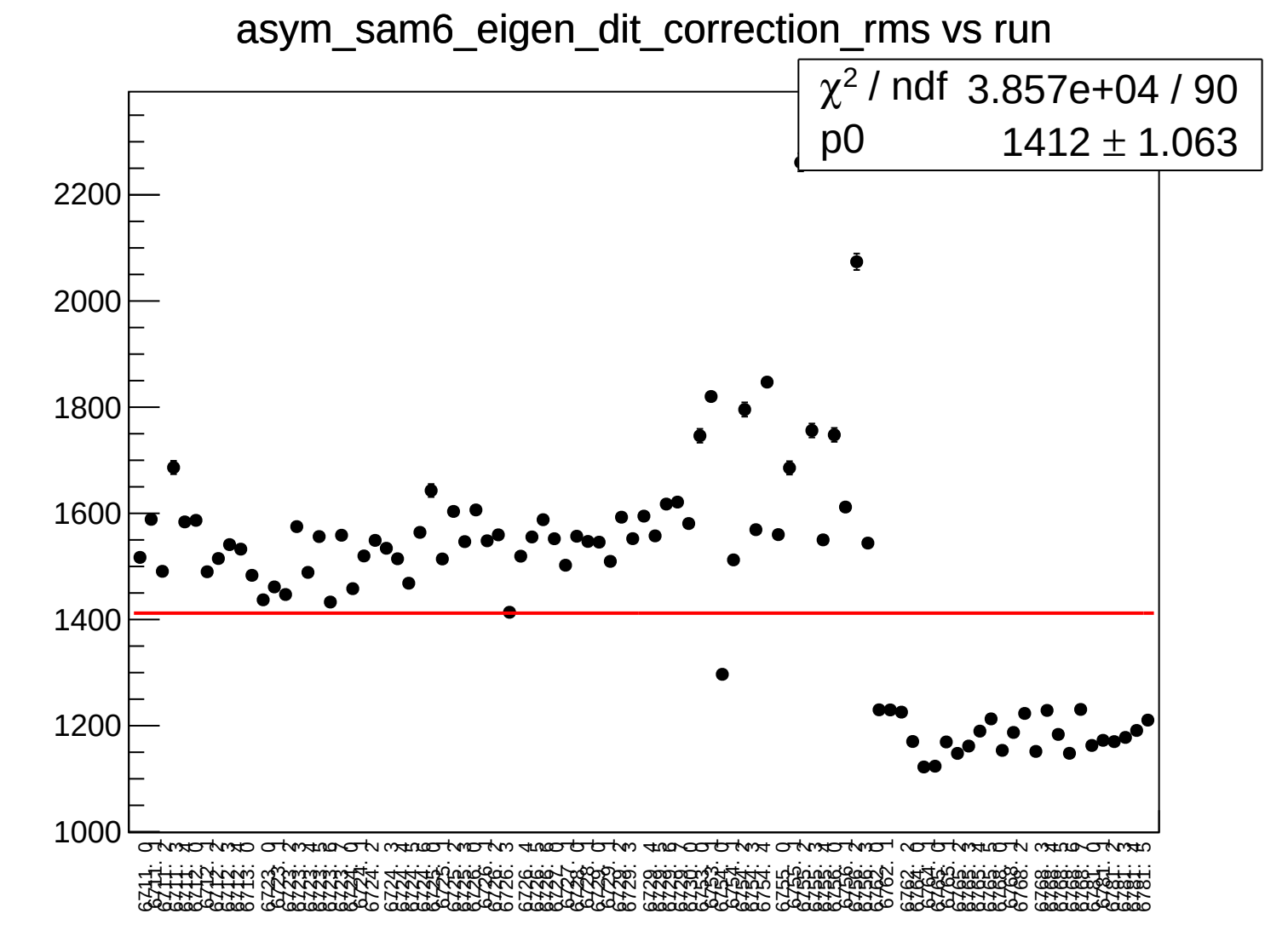

eigen_dit_asym_sam6_mean vs run
χ² / ndf 95.75 / 90
p0 −555 ± 214
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 91
Mean −33.71
Std Dev 0
2
1
0
−1
−2
−3

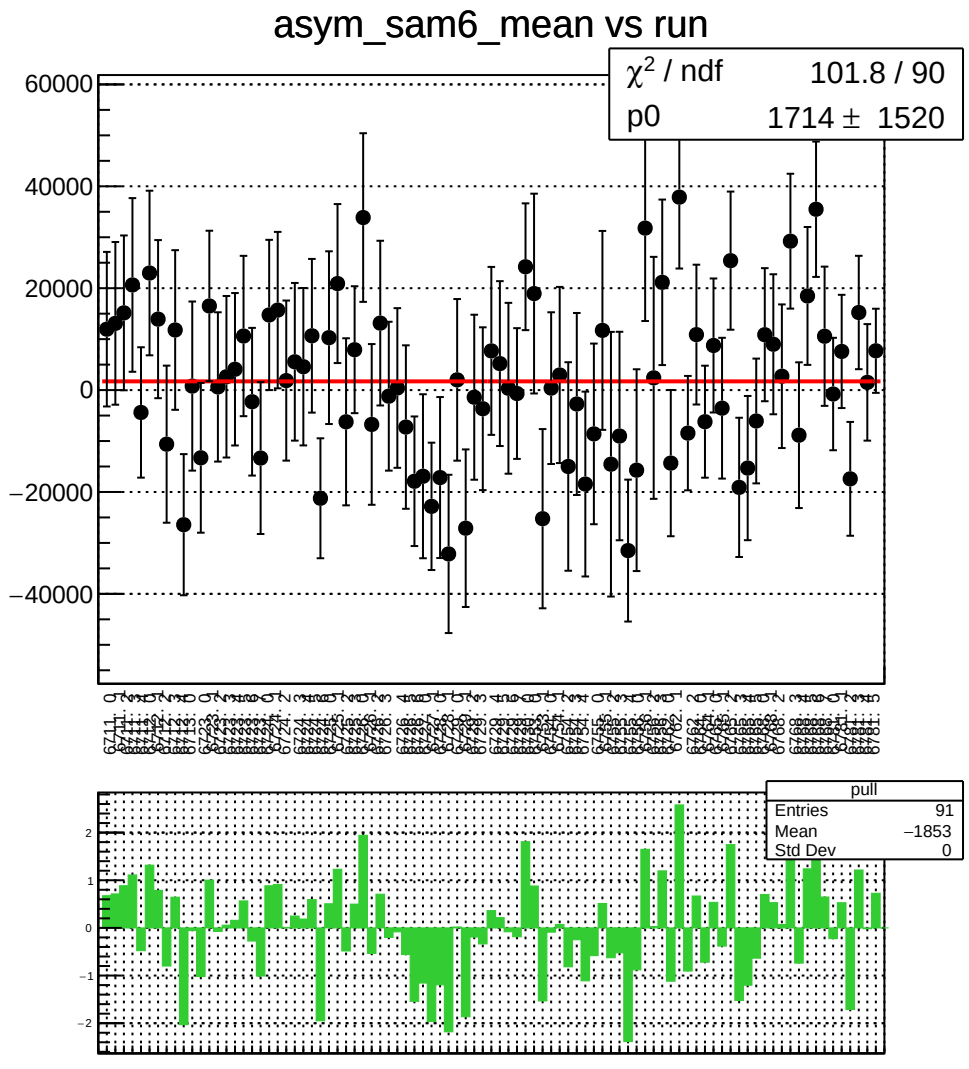

pull1D
Entries 91
Mean 0.02833
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

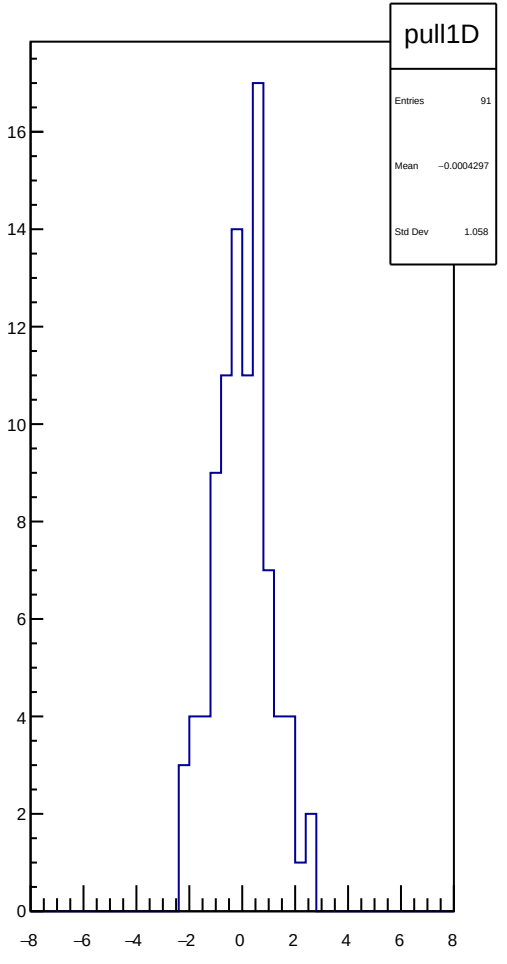

eigen_dit_asym_sam6_rms vs run
χ^2 / ndf 2.673e+04 / 90
p0 201.8 ± 0.1513
360
340
320
300
280
260
240
220
200
180
160

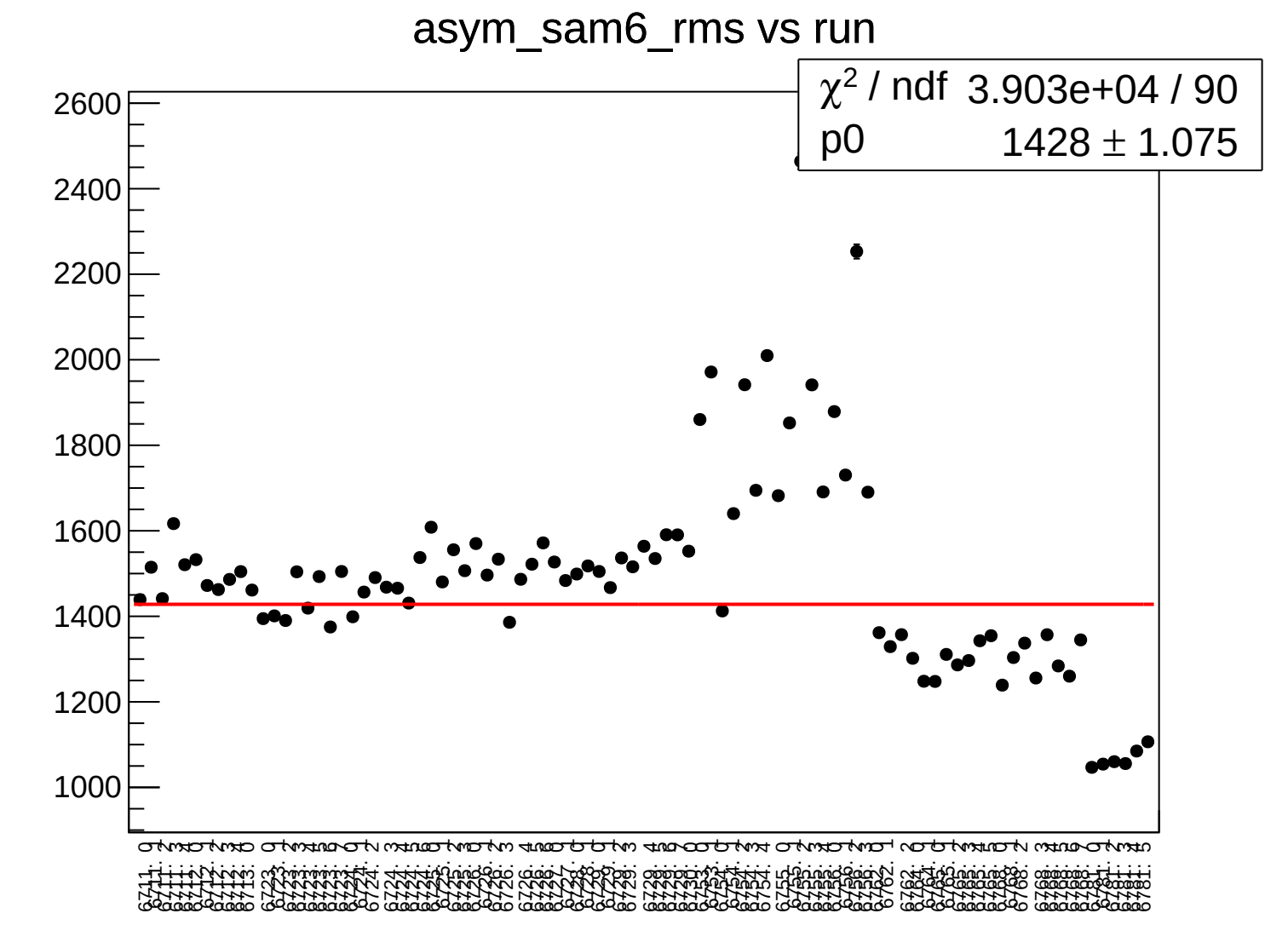

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 100.6 / 90
p0 −2198 ± 1503
pull
Entries 91
Mean −364.6
Std Dev 0

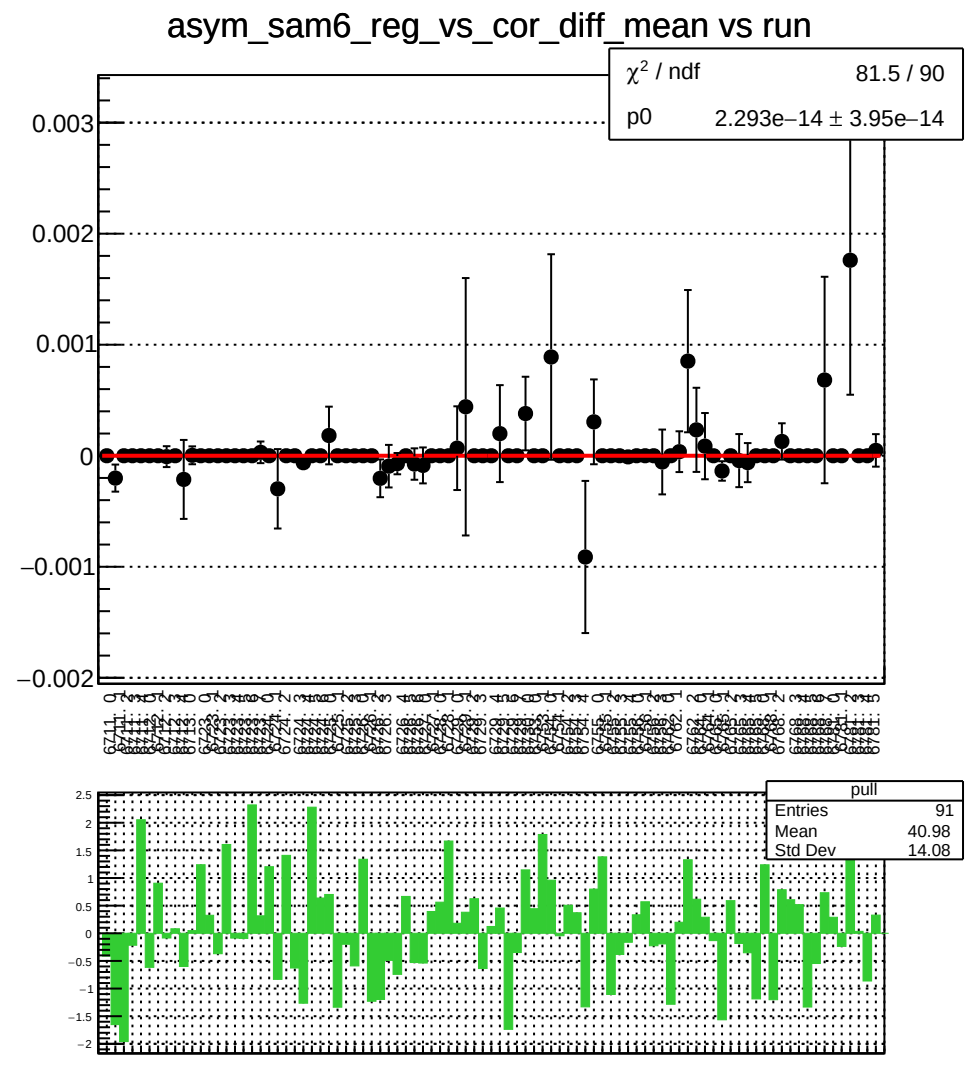

pull1D
Entries 91
Mean 0.003186
Std Dev 1.051

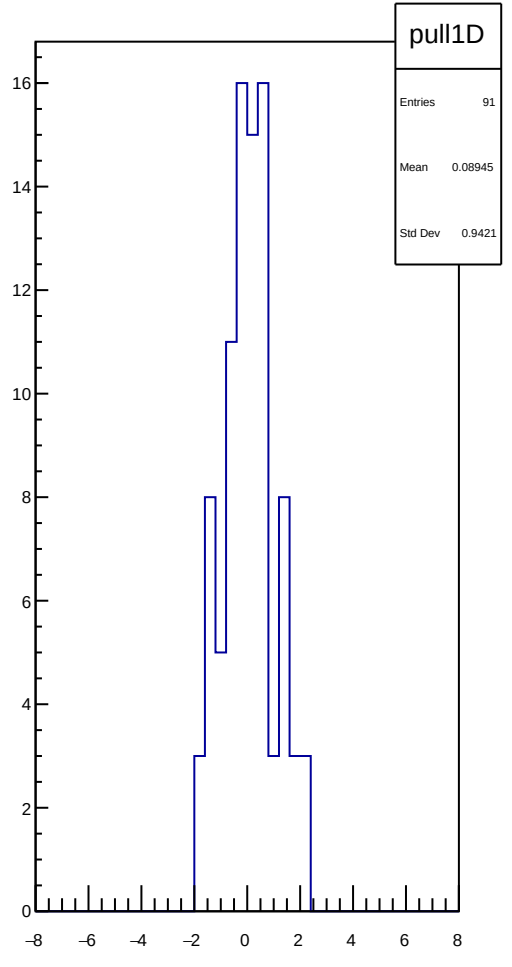

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 3.857e+04 / 90
p0 1412 ± 1.063
2200
2000
1800
1600
1400
1200
1000

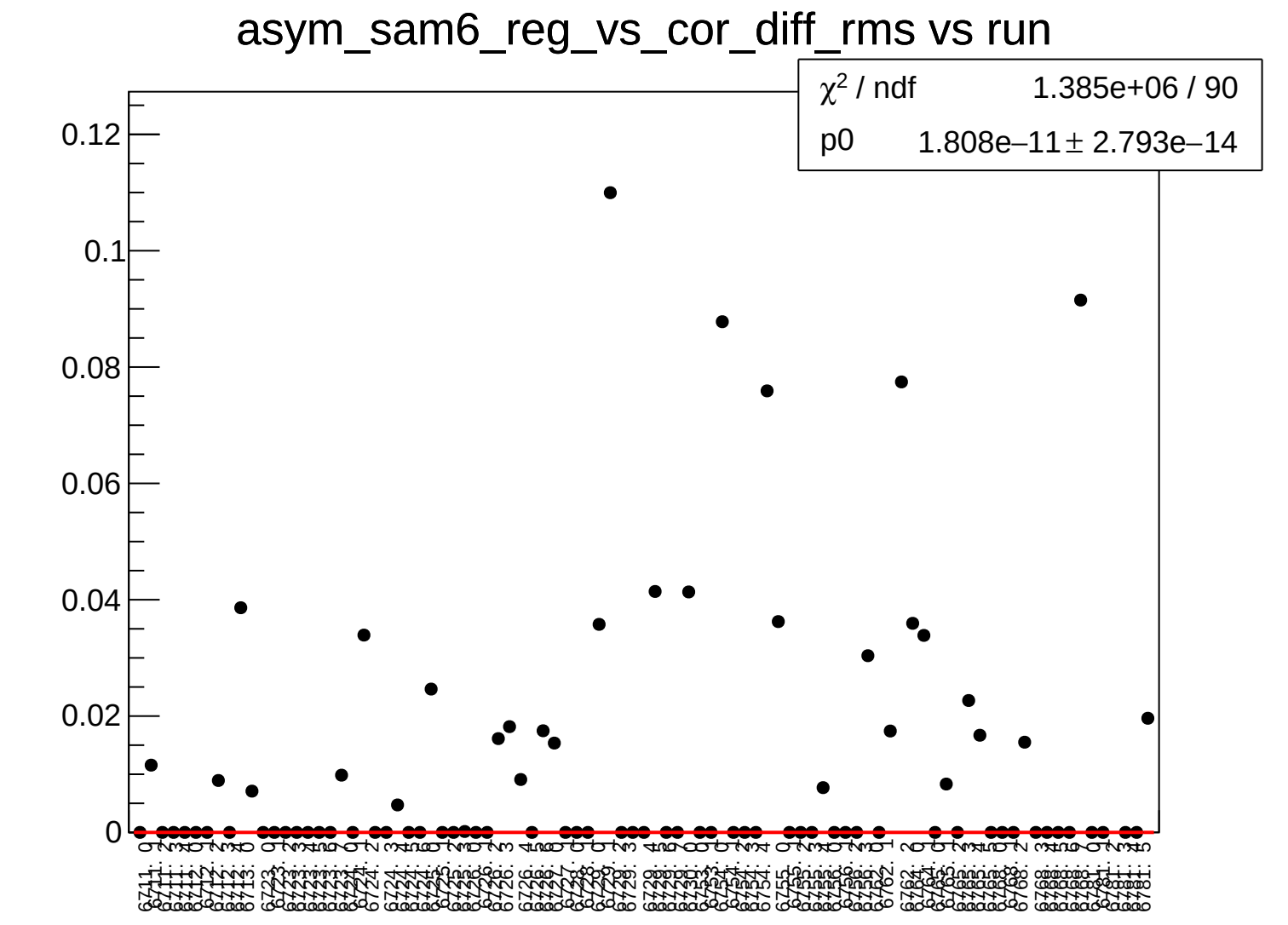

asym_sam6_mean vs run
χ² / ndf 101.8 / 90
p0 1714 ± 1520
60000
40000
20000
0
−20000
−40000
pull
Entries 91
Mean −1853
Std Dev 0
2
1
0
−1
−2

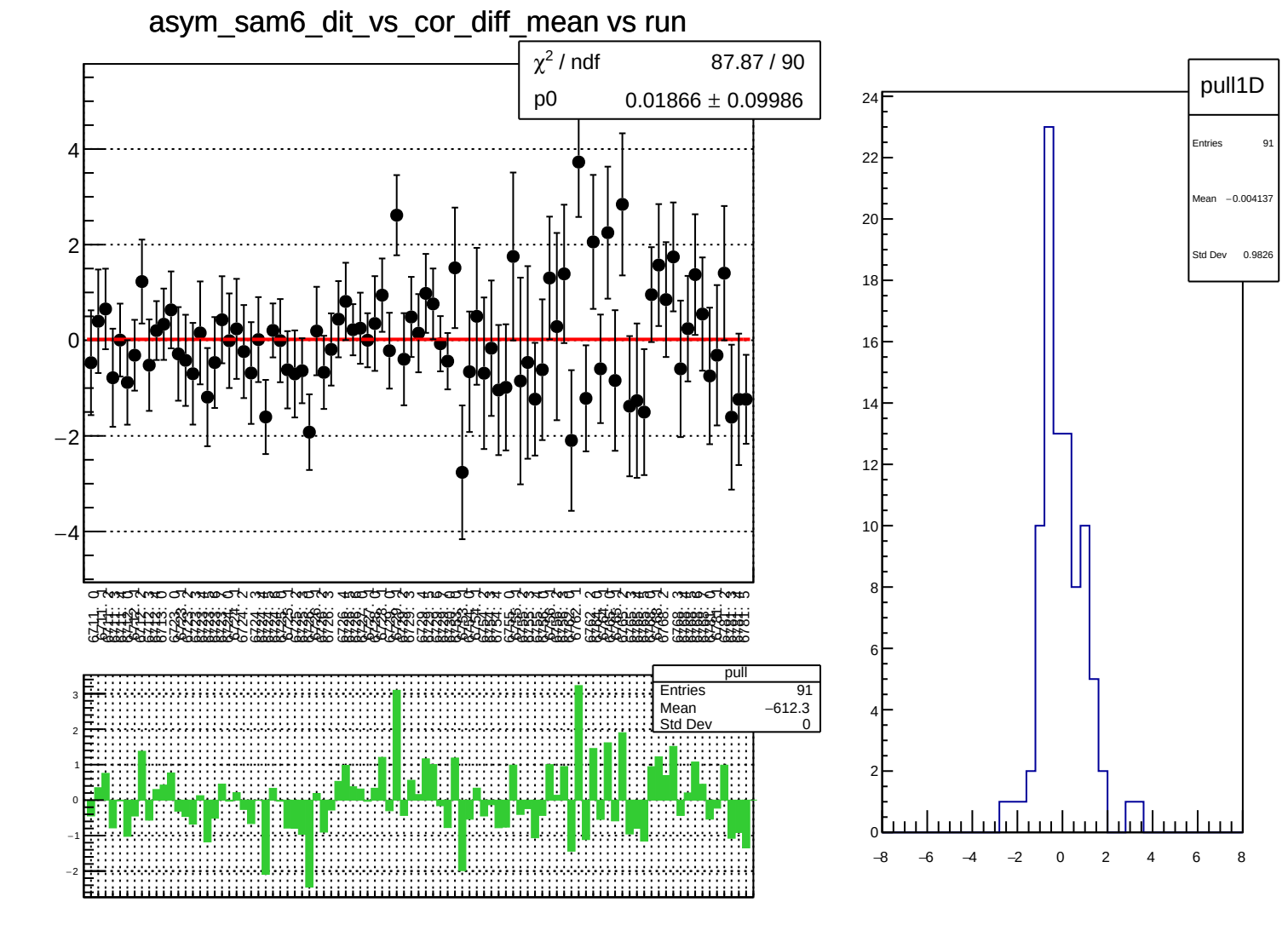

pull1D
Entries 91
Mean −0.0004297
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

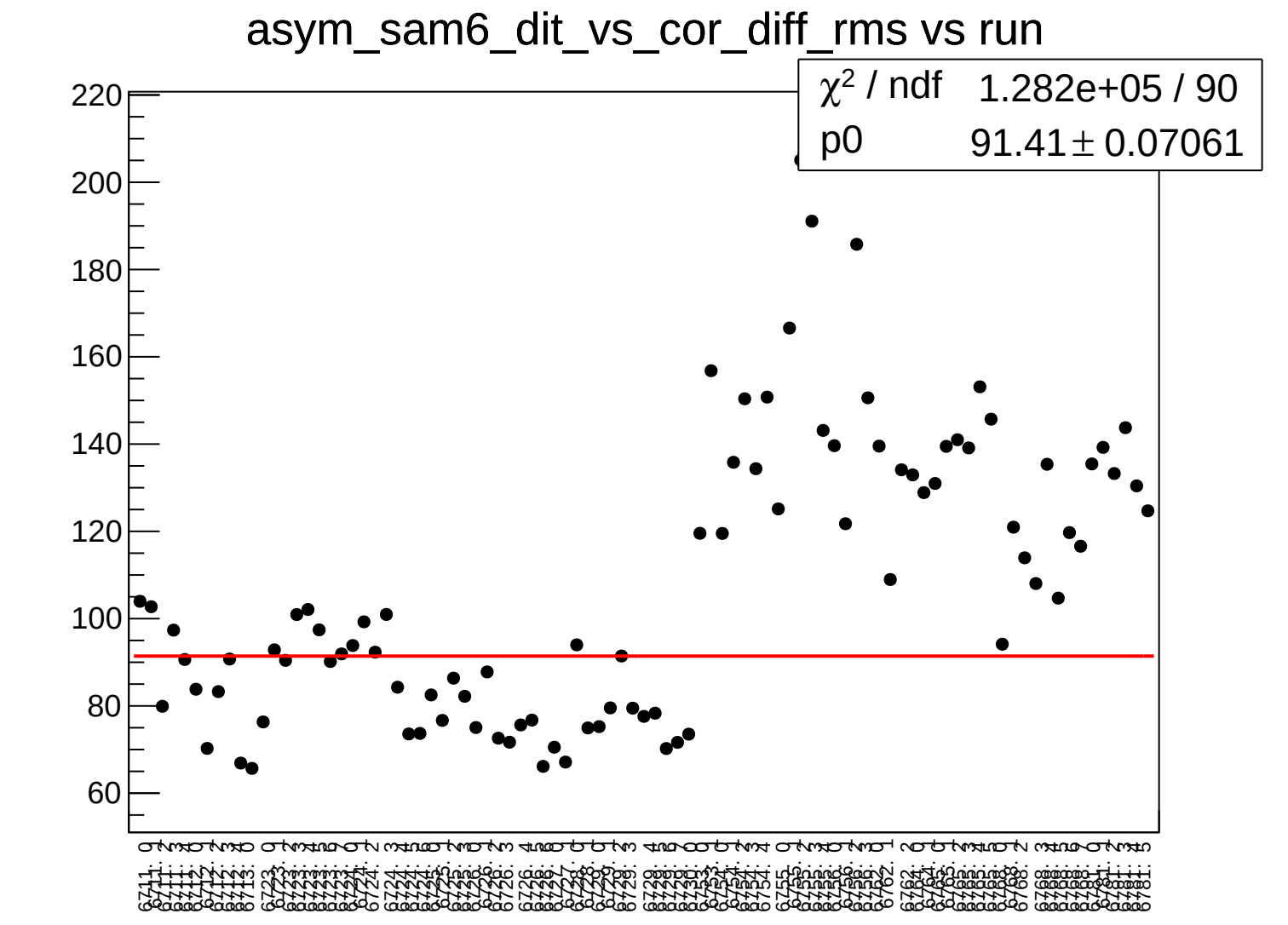

asym_sam6_rms vs run
χ^2 / ndf 3.903e+04 / 90
p0 1428 ± 1.075
2600
2400
2200
2000
1800
1600
1400
1200
1000

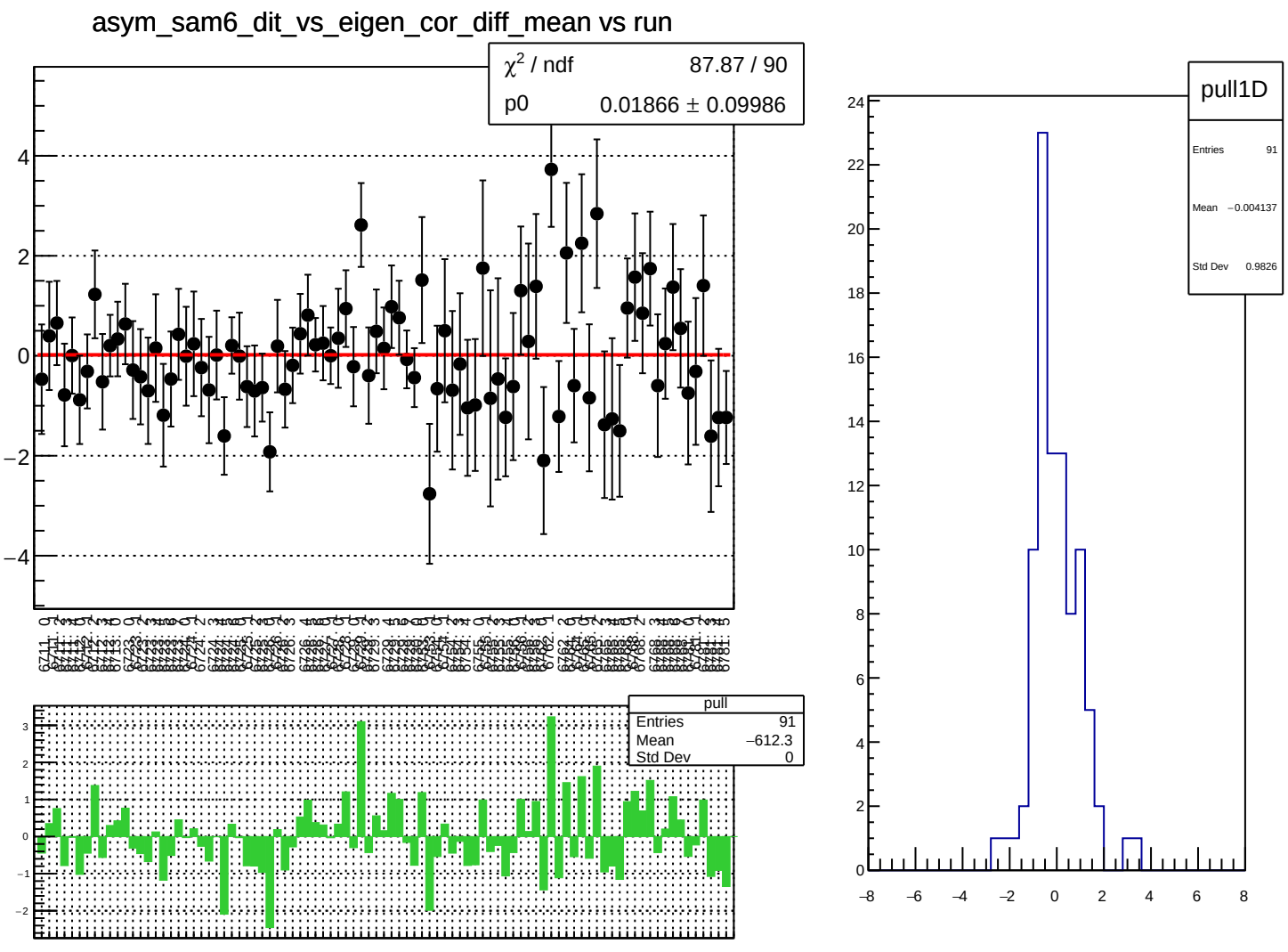

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 81.5 / 90
p0 2.293e−14 ± 3.95e−14
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 91
Mean 40.98
Std Dev 14.08
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

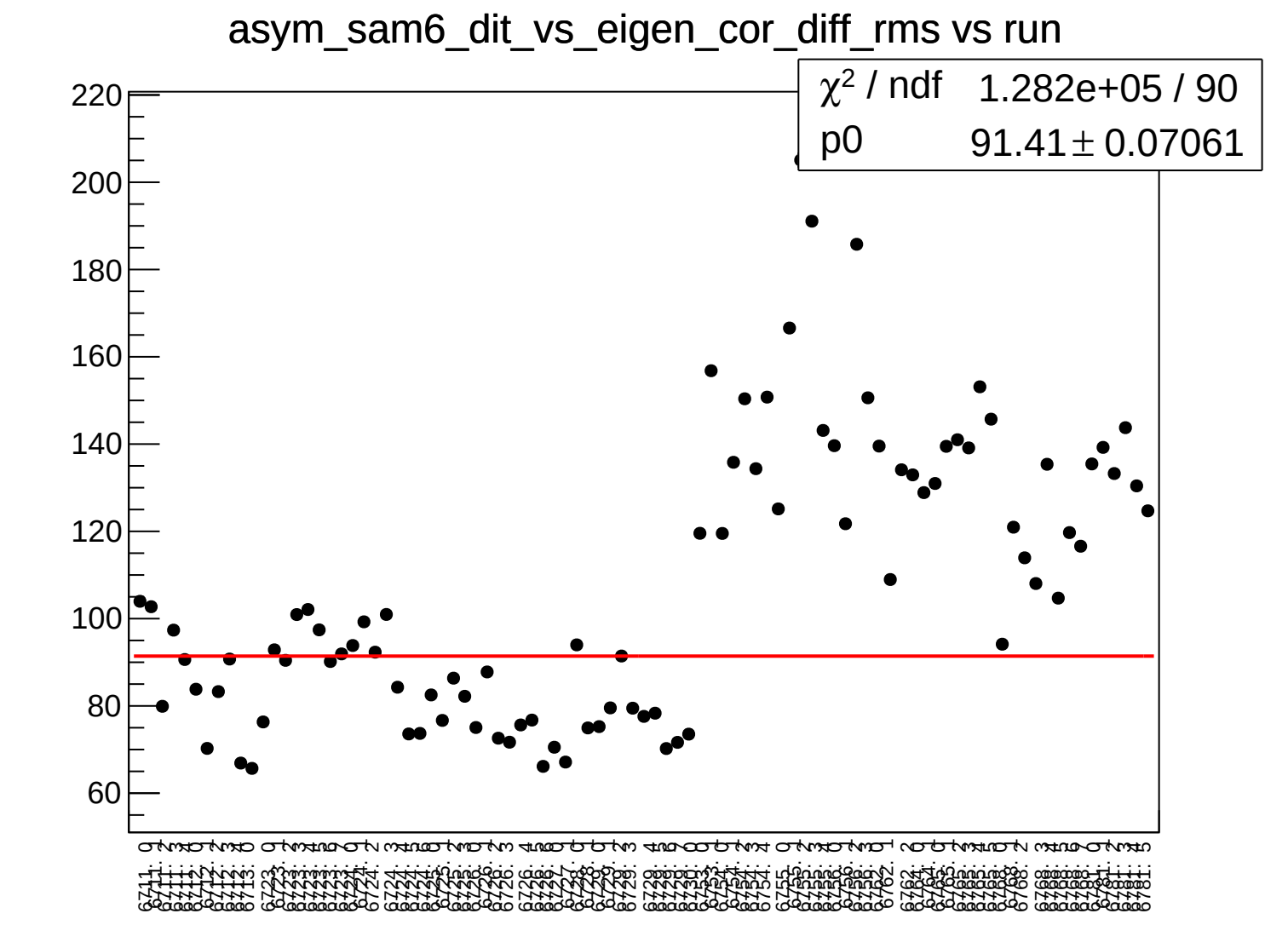

pull1D
Entries 91
Mean 0.08945
Std Dev 0.9421
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

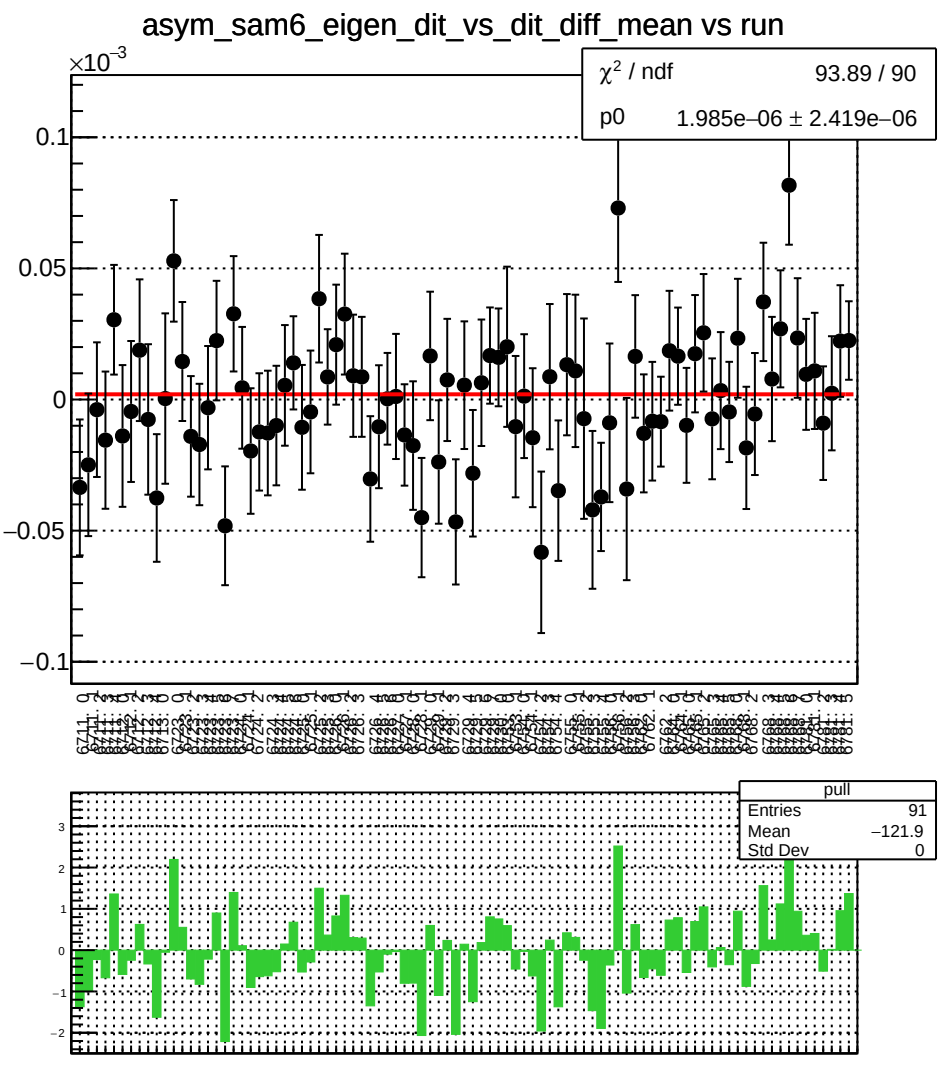

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.385e+06 / 90
p0 1.808e−11 ± 2.793e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

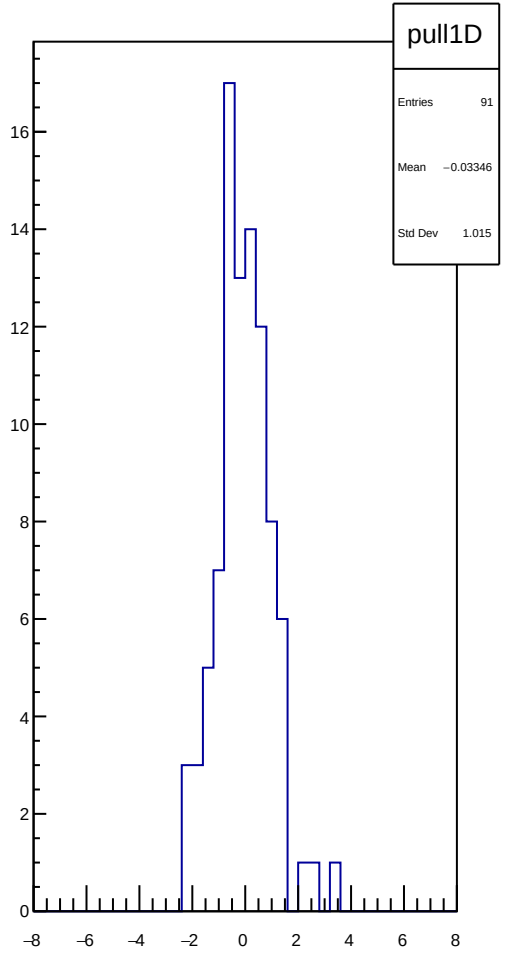

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 87.87 / 90
p0 0.01866 ± 0.09986
pull
Entries 91
Mean −612.3
Std Dev 0
pull1D
Entries 91
Mean −0.004137
Std Dev 0.9826

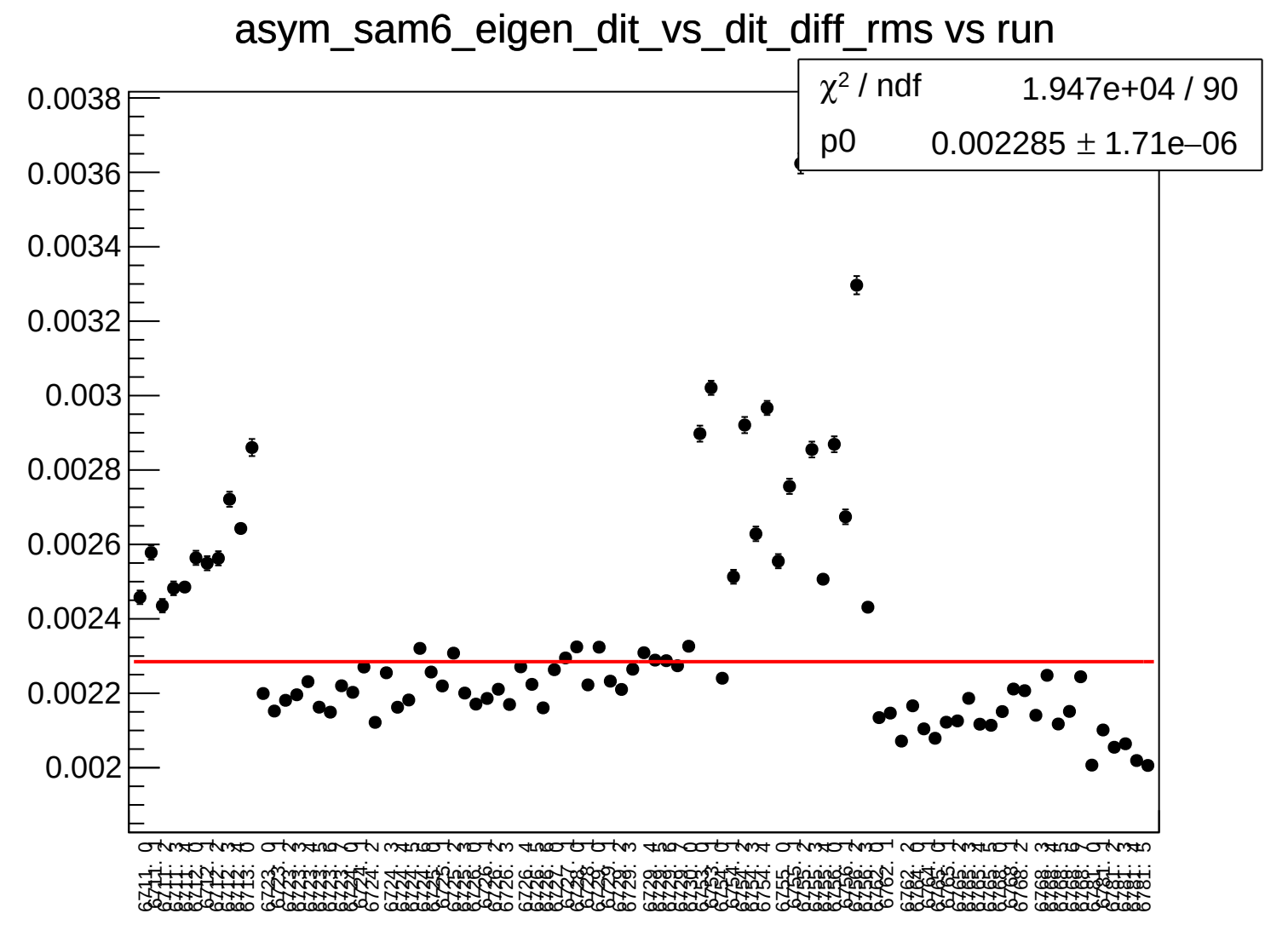

asym_sam6_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.282e+05 / 90
p0 91.41 ± 0.07061
220
200
180
160
140
120
100
80
60

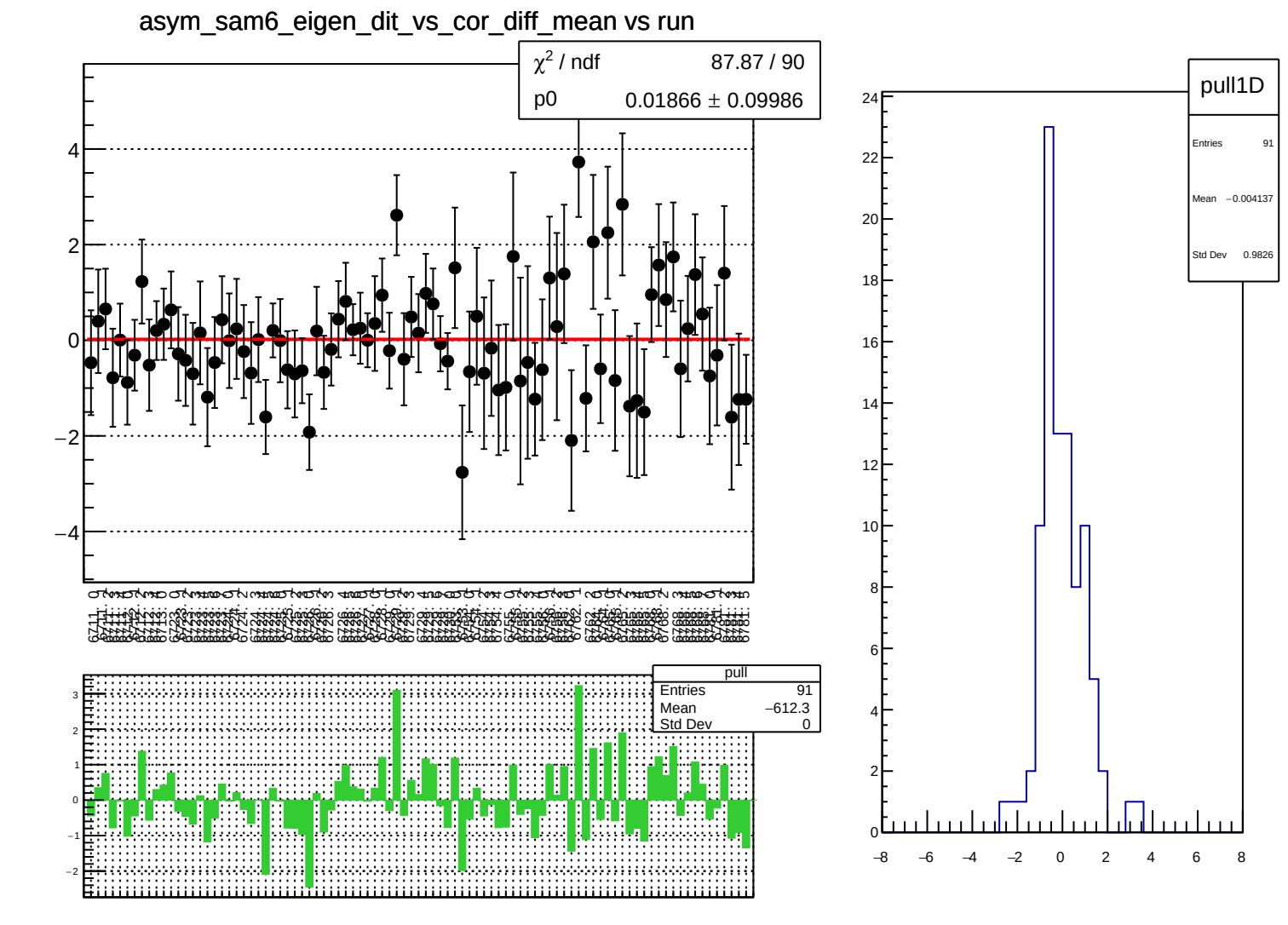

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.87 / 90
p0 0.01866 ± 0.09986
pull
Entries 91
Mean −612.3
Std Dev 0
pull1D
Entries 91
Mean −0.004137
Std Dev 0.9826

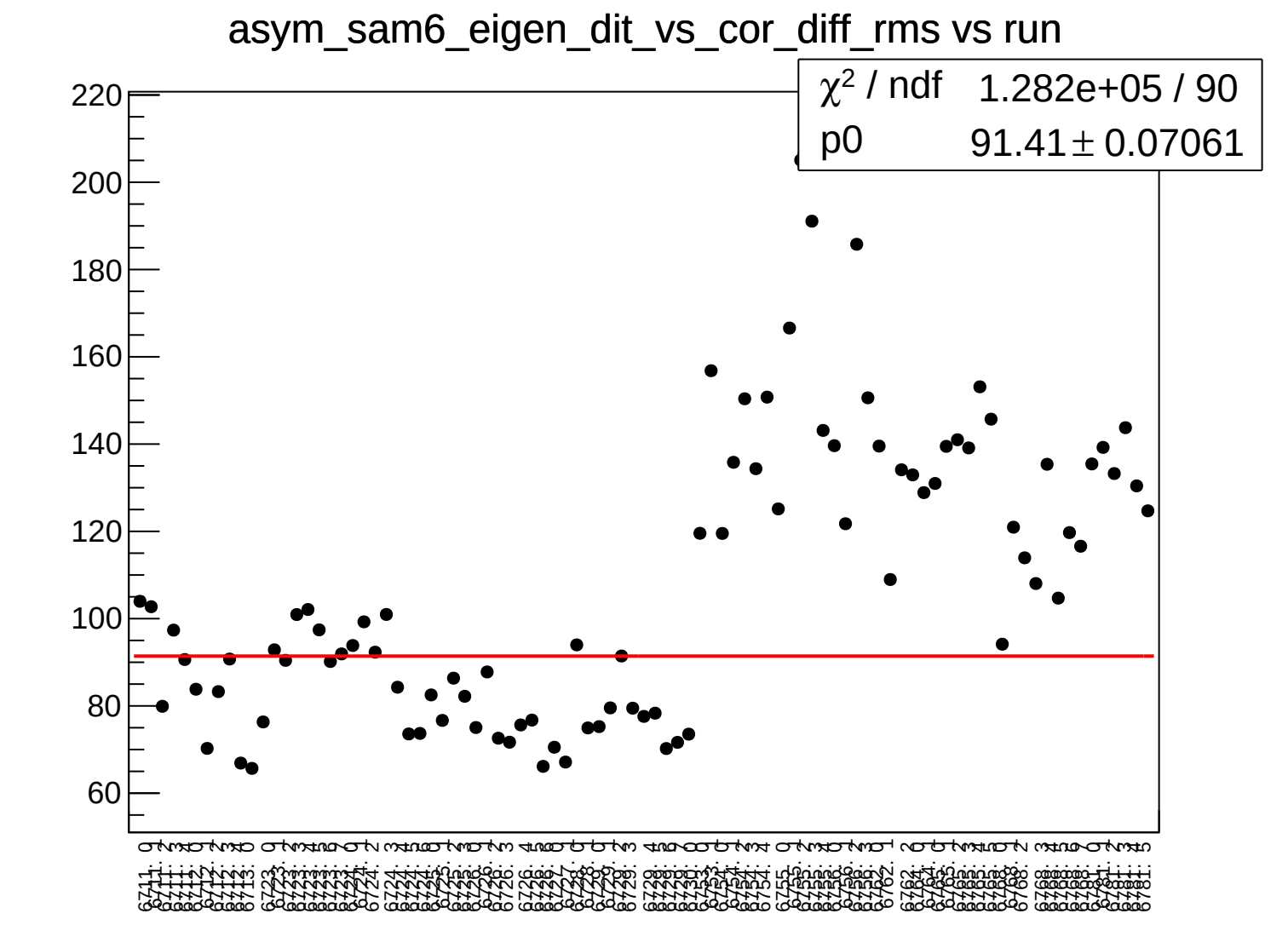

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.282e+05 / 90
p0 91.41 ± 0.07061
220
200
180
160
140
120
100
80
60

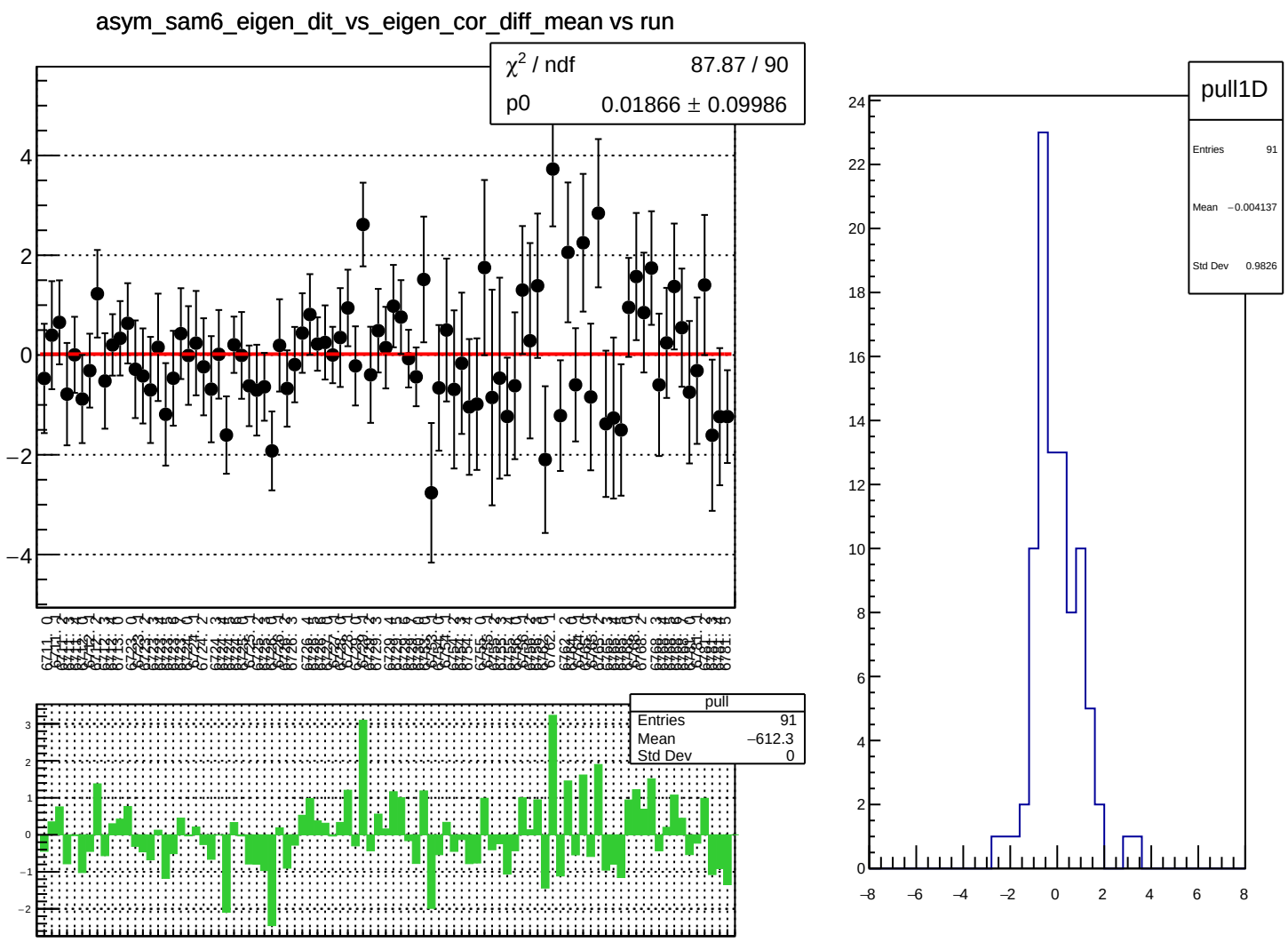

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.89 / 90
p0 1.985e−06 ± 2.419e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean −121.9
Std Dev 0
3
2
1
0
−1
−2

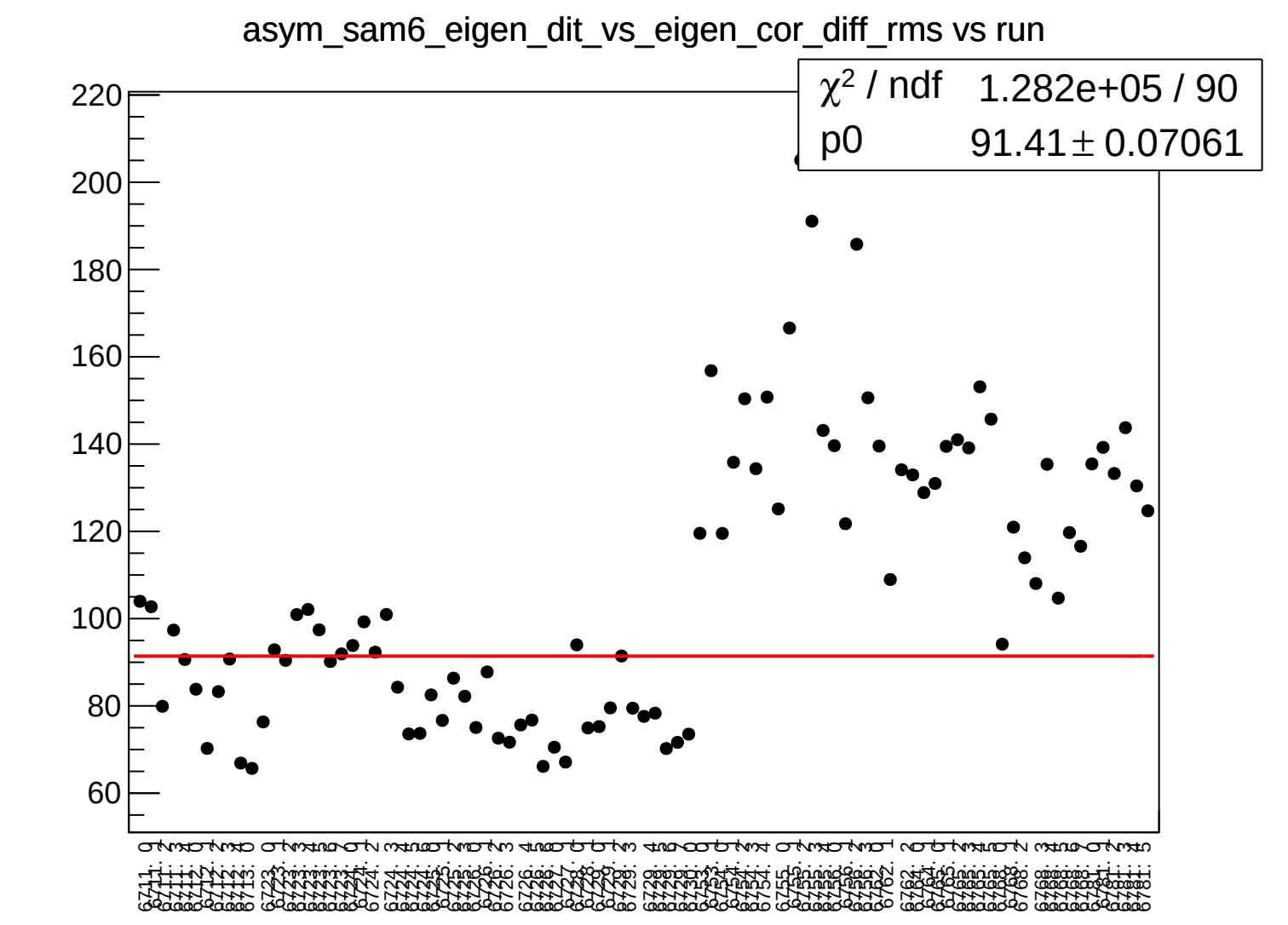

pull1D
Entries 91
Mean −0.03346
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

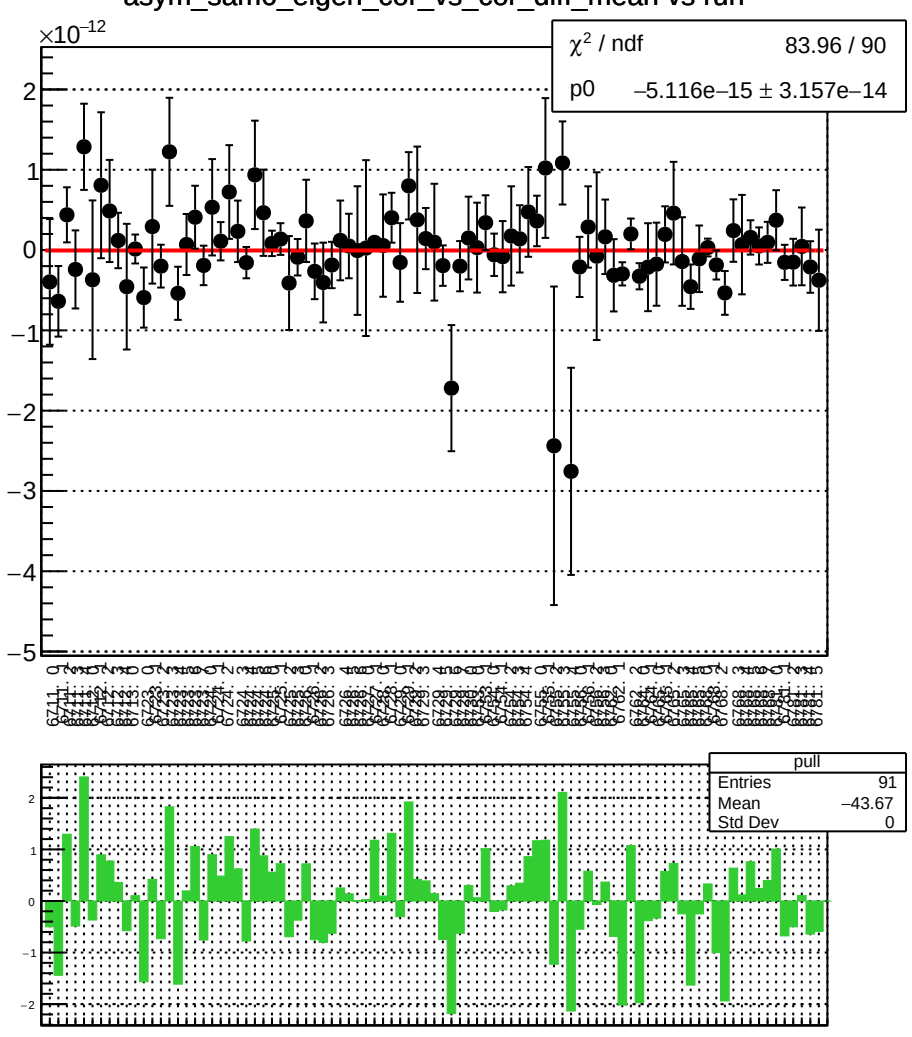

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.947e+04 / 90
p0 0.002285 ± 1.71e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

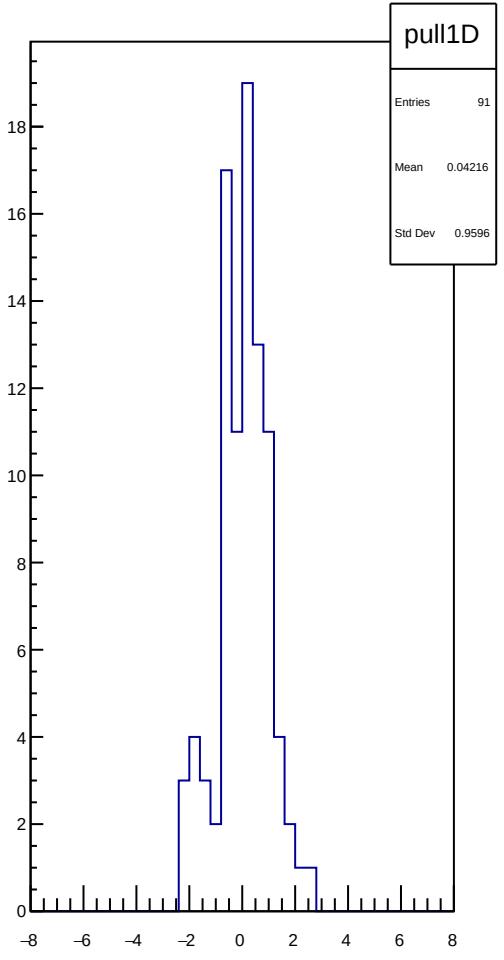

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.87 / 90
p0 0.01866 ± 0.09986
pull
Entries 91
Mean −612.3
Std Dev 0
pull1D
Entries 91
Mean −0.004137
Std Dev 0.9826

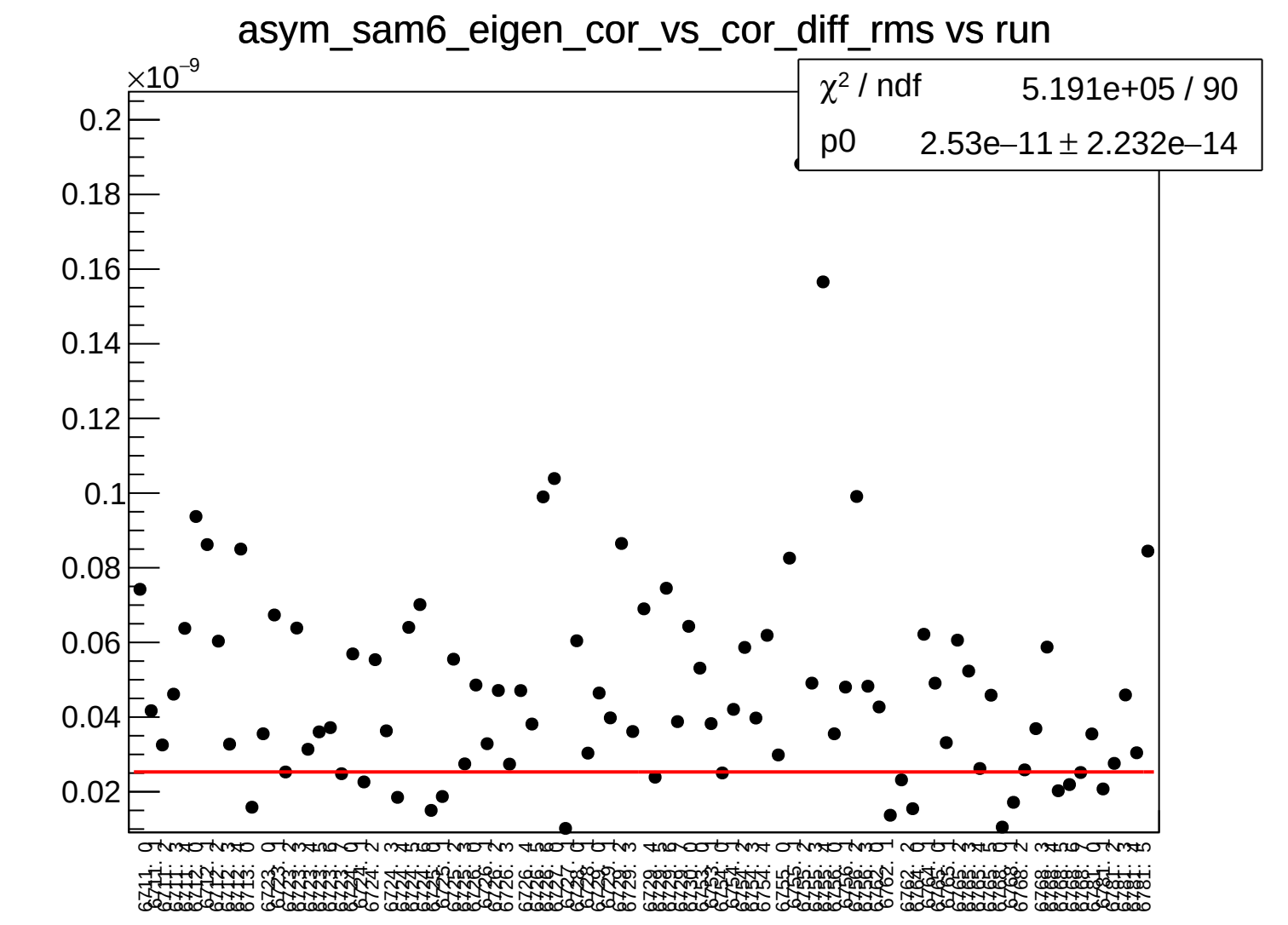

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.282e+05 / 90
p0 91.41 ± 0.07061
220
200
180
160
140
120
100
80
60

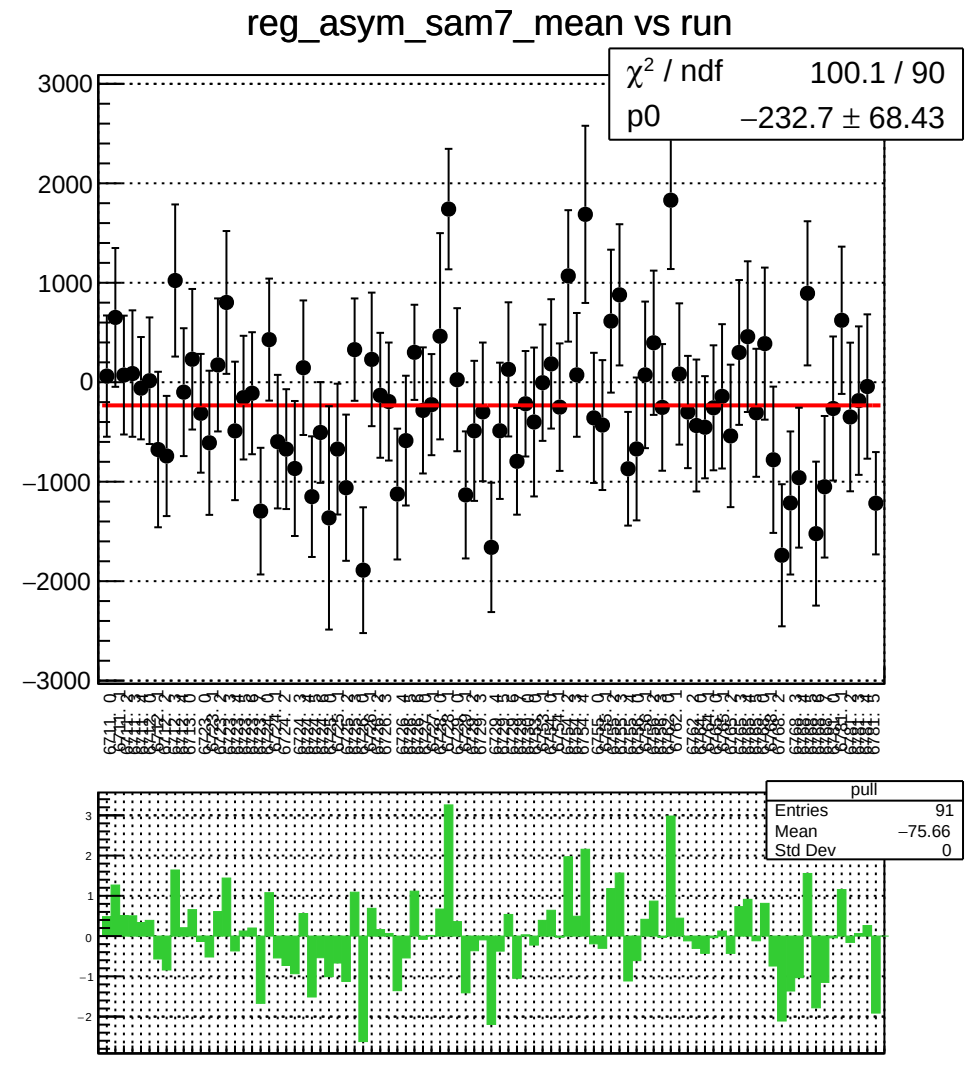

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.87 / 90
p0 0.01866 ± 0.09986
pull
Entries 91
Mean −612.3
Std Dev 0
pull1D
Entries 91
Mean −0.004137
Std Dev 0.9826

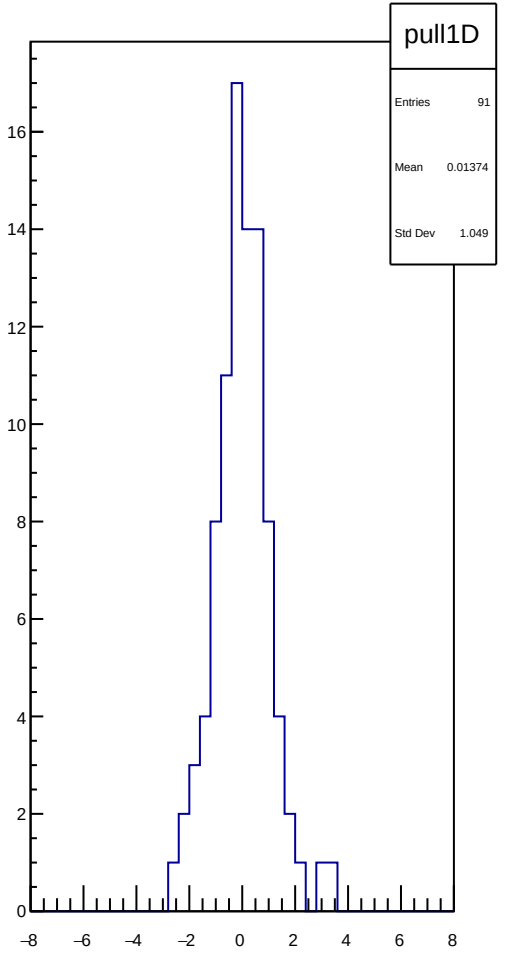

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.282e+05 / 90
p0 91.41 ± 0.07061
220
200
180
160
140
120
100
80
60

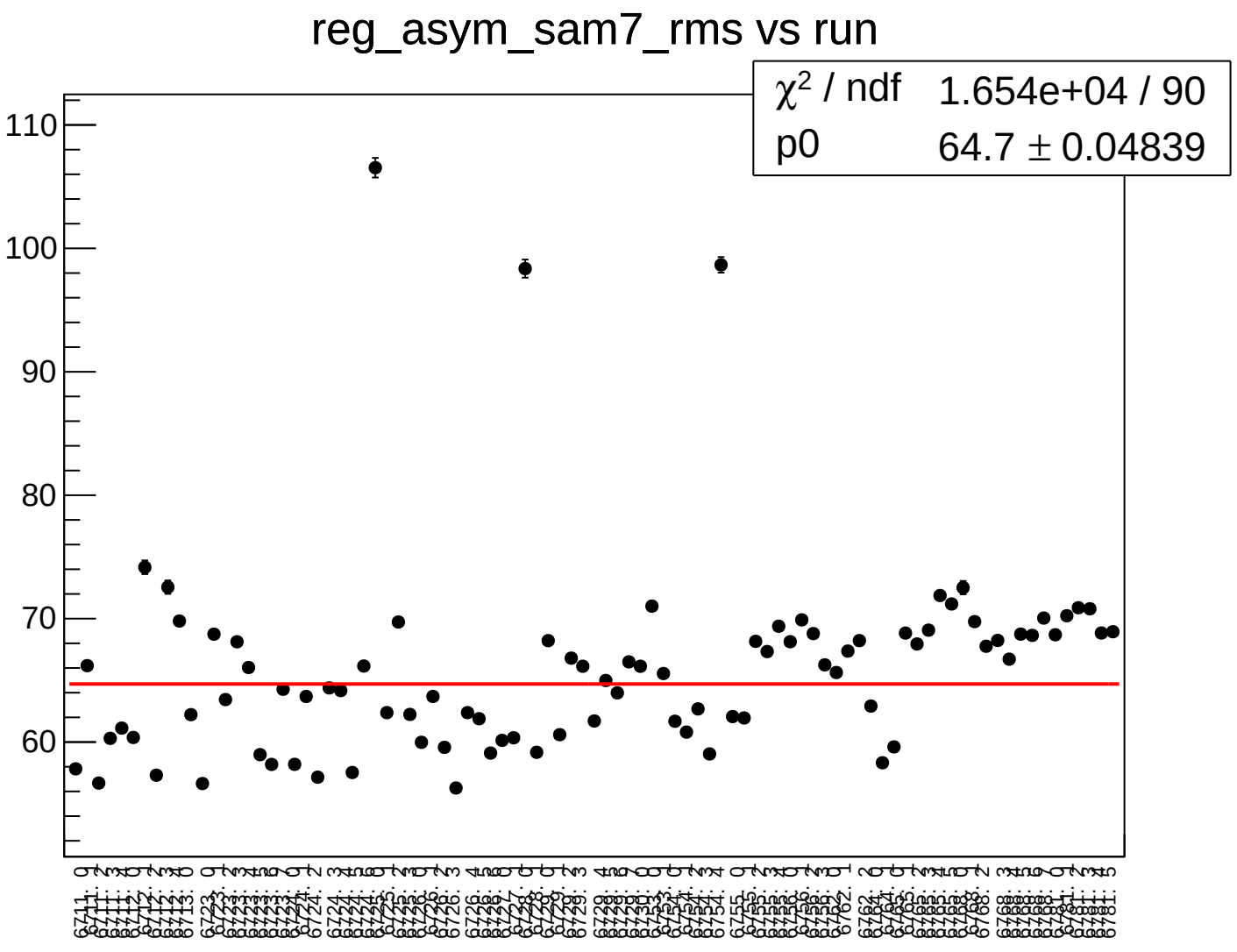

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.96 / 90
p0 −5.116e−15 ± 3.157e−14
pull
Entries 91
Mean −43.67
Std Dev 0

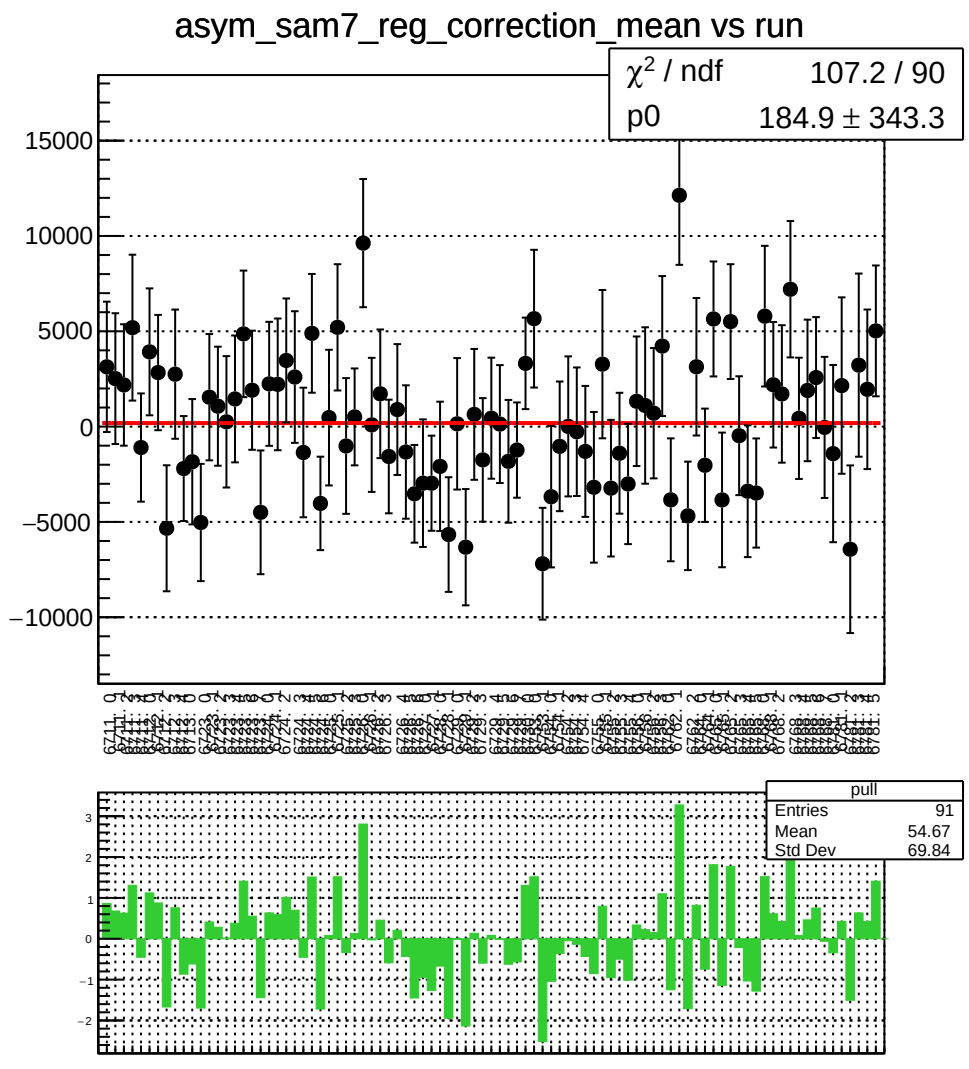

pull1D
Entries 91
Mean 0.04216
Std Dev 0.9596

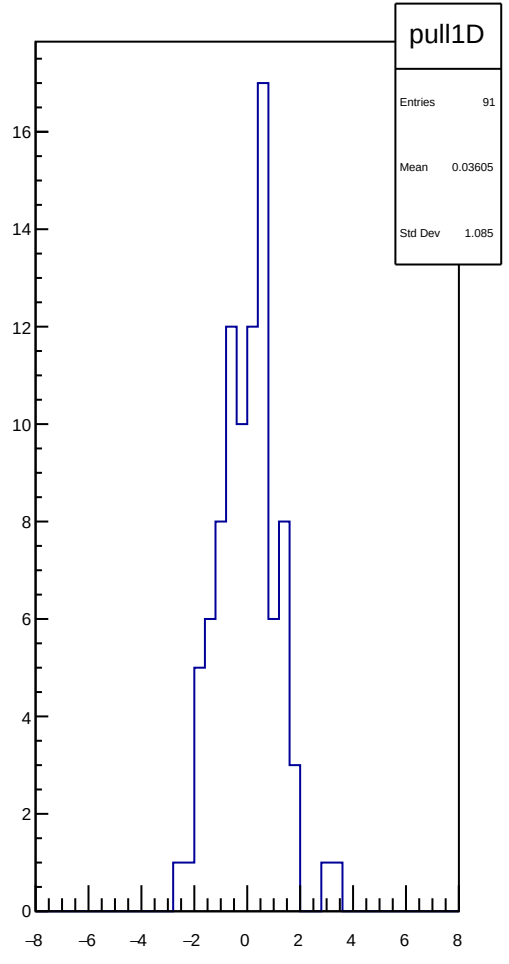

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.191e+05 / 90
p0 2.53e−11 ± 2.232e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02


reg_asym_sam7_mean vs run
χ² / ndf 100.1 / 90
p0 −232.7 ± 68.43
pull
Entries 91
Mean −75.66
Std Dev 0

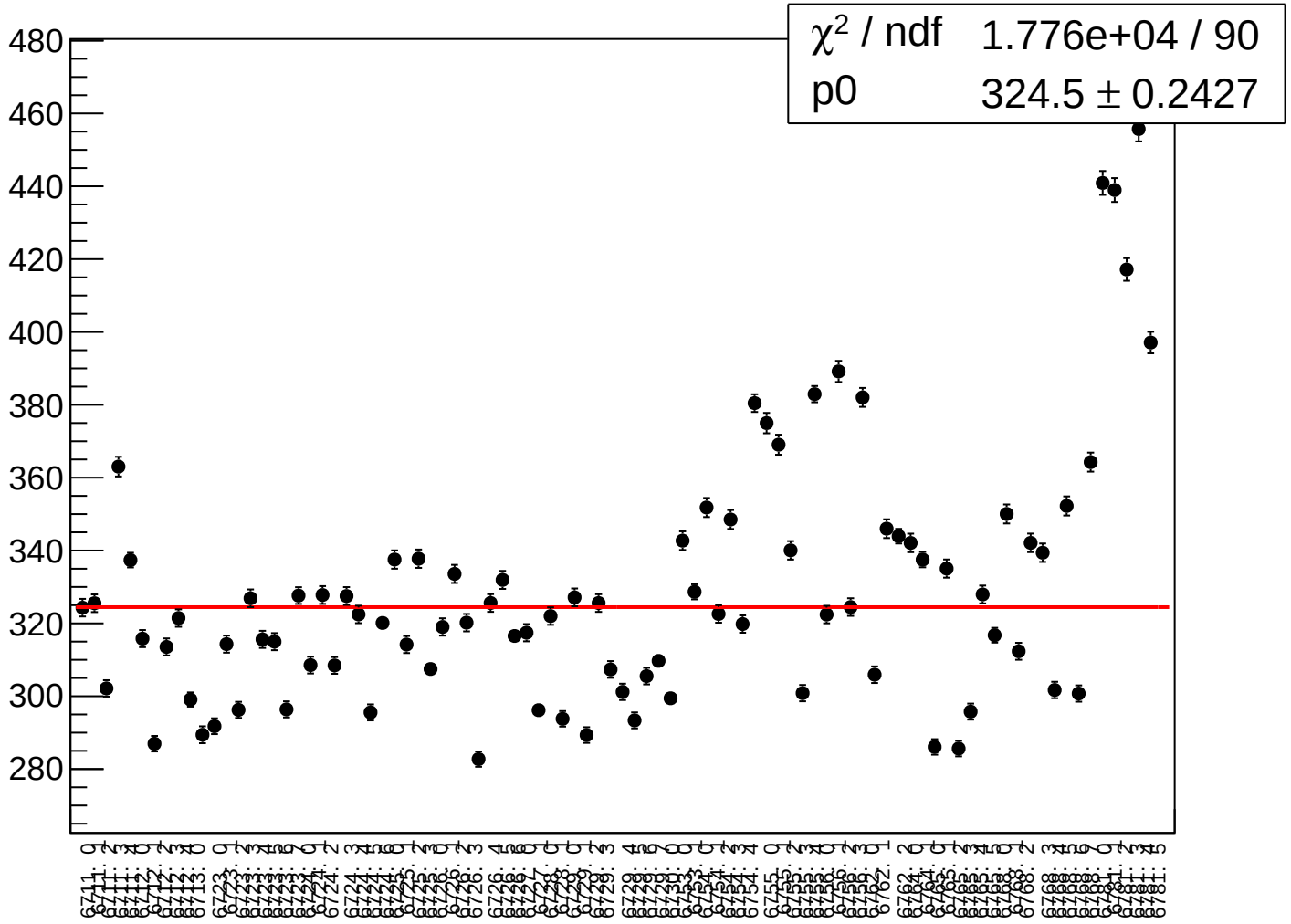

pull1D
Entries 91
Mean 0.01374
Std Dev 1.049

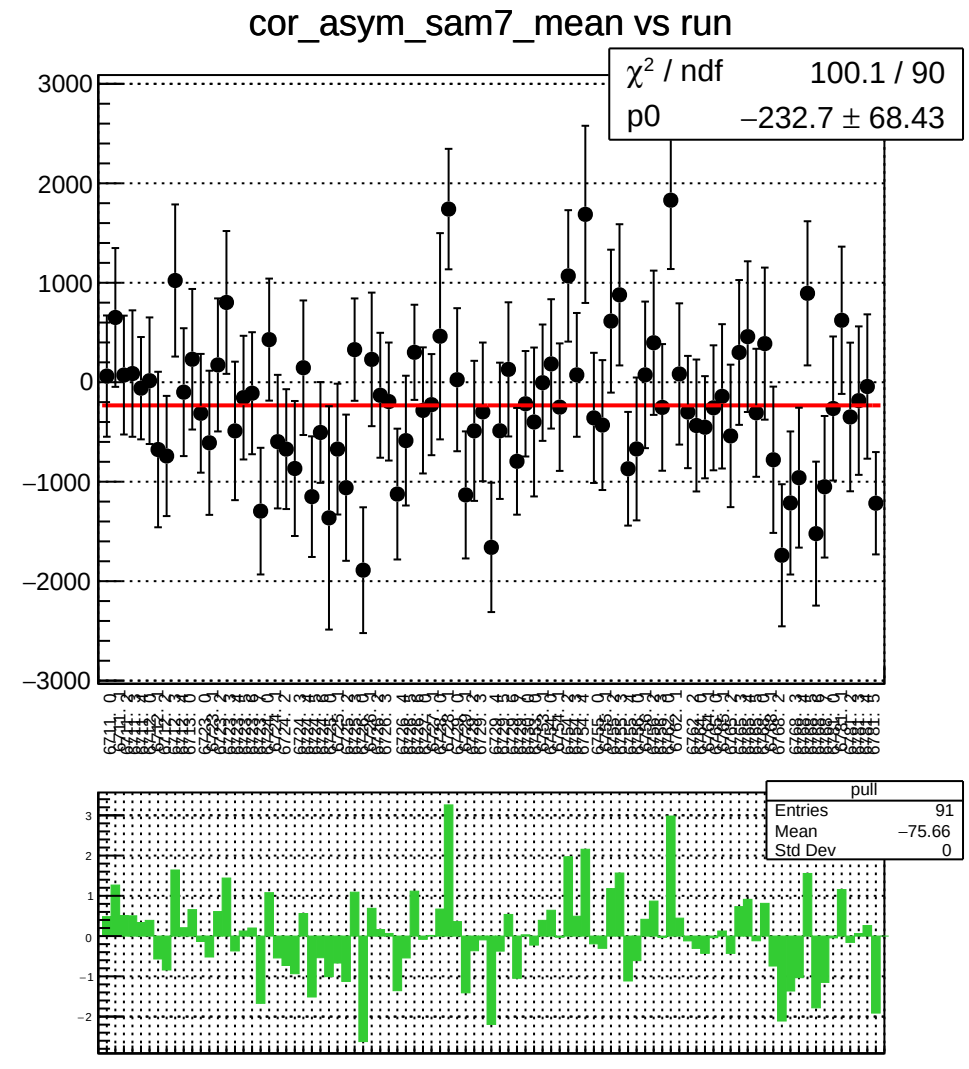

reg_asym_sam7_rms vs run
χ^2 / ndf 1.654e+04 / 90
p0 64.7 ± 0.04839
110
100
90
80
70
60

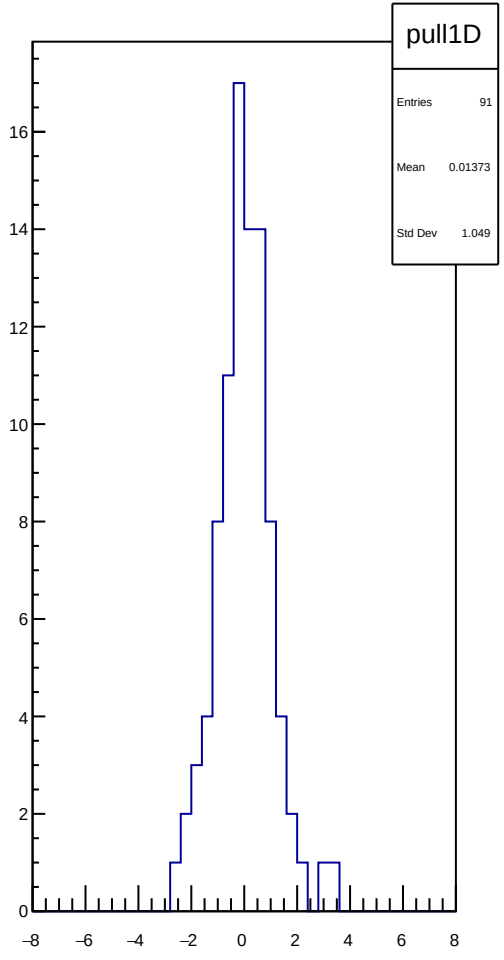

asym_sam7_reg_correction_mean vs run
χ² / ndf 107.2 / 90
p0 184.9 ± 343.3
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 54.67
Std Dev 69.84
3
2
1
0
−1
−2

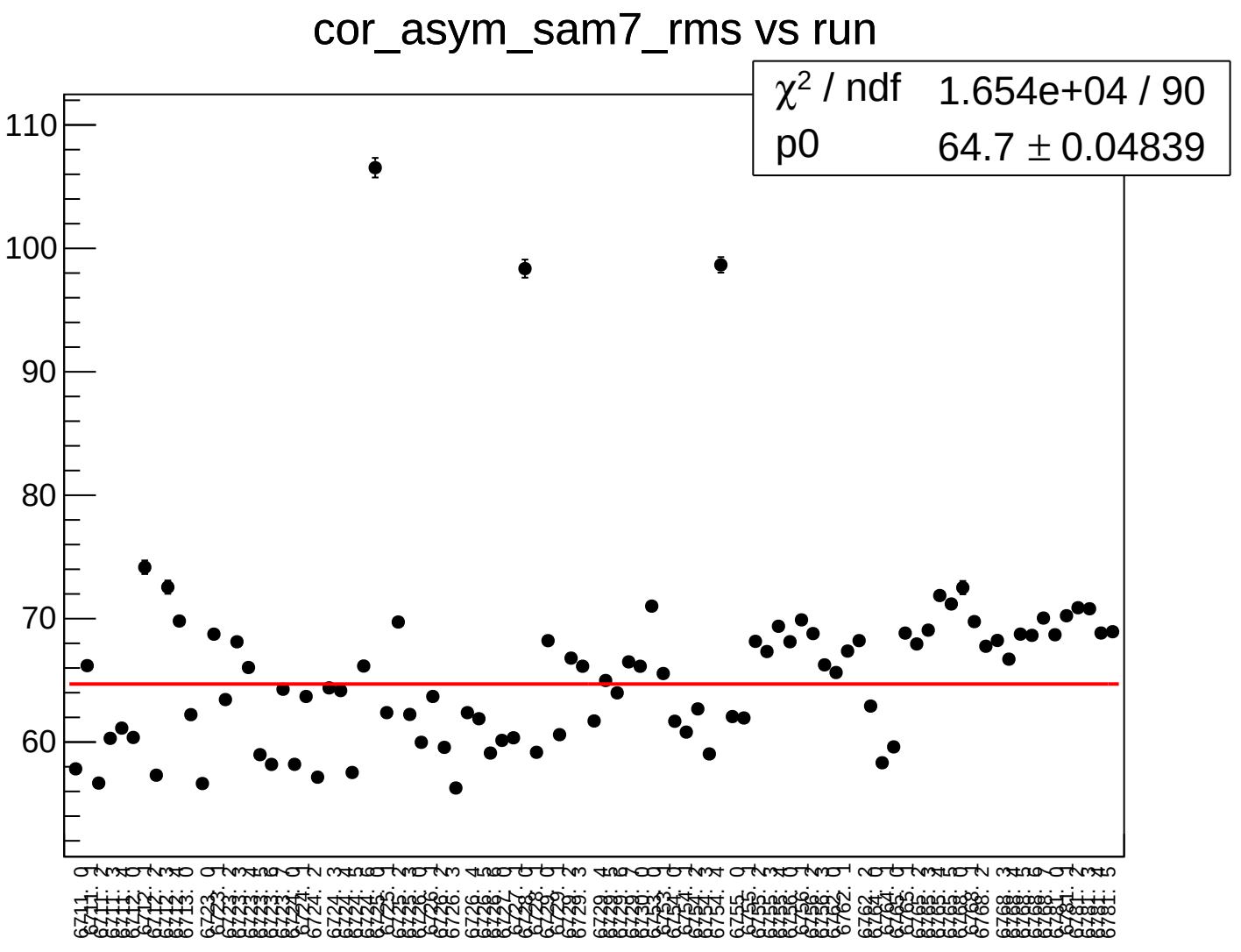

pull1D
Entries 91
Mean 0.03605
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

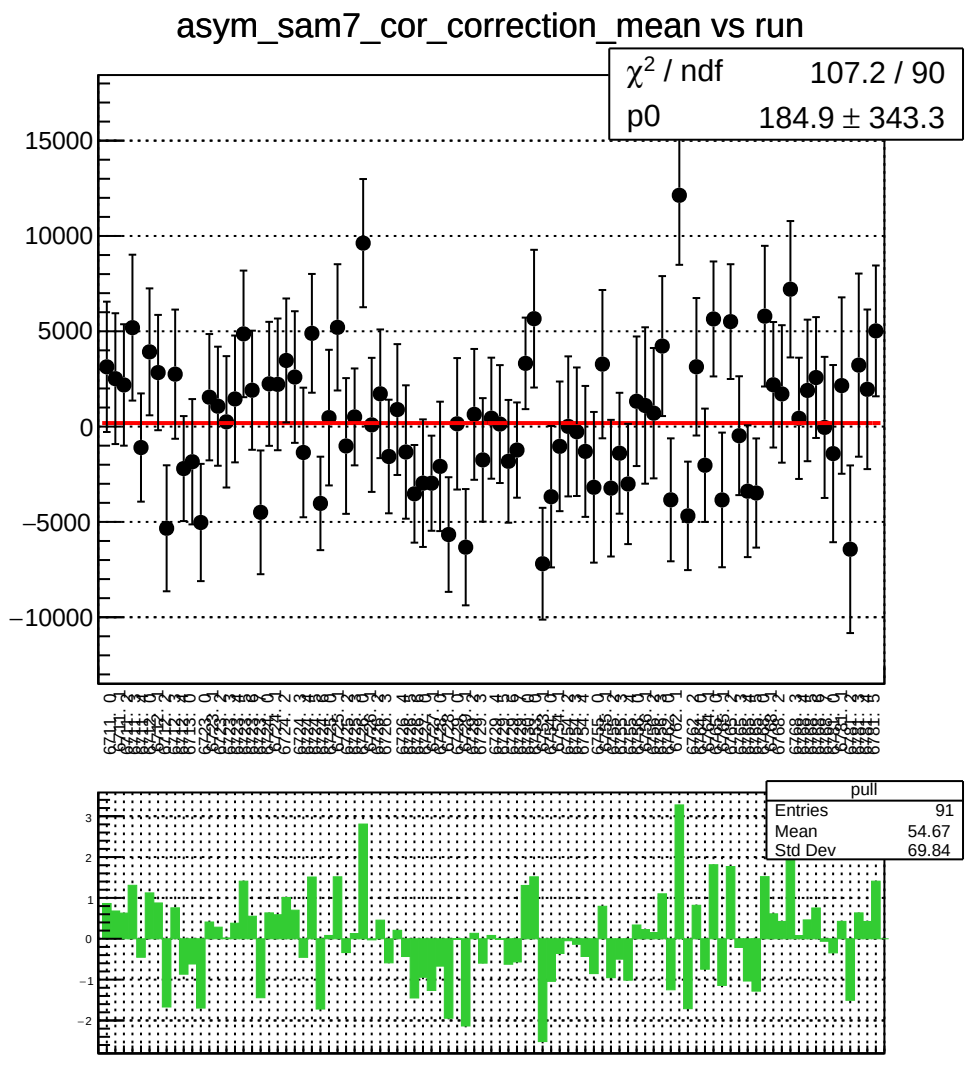
asym_sam7_reg_correction_rms vs run

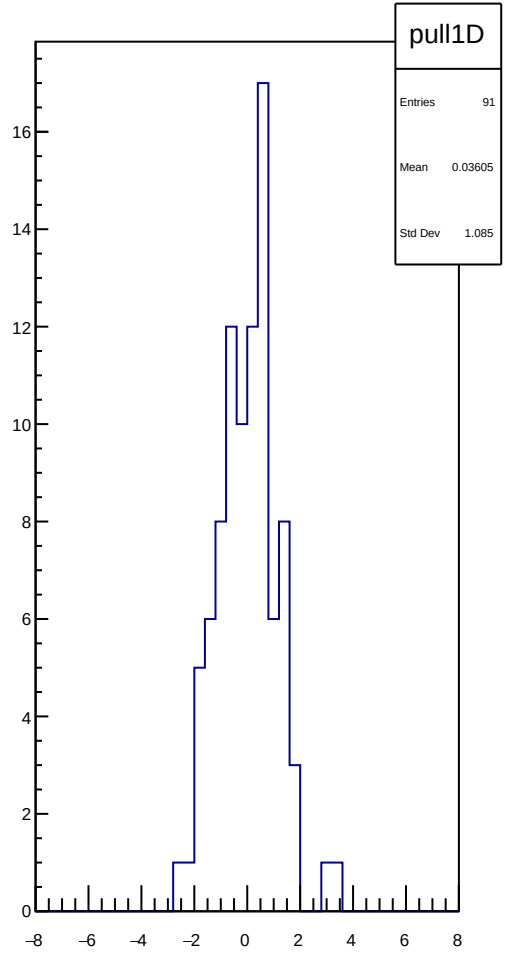



cor_asym_sam7_mean vs run
χ² / ndf 100.1 / 90
p0 −232.7 ± 68.43
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −75.66
Std Dev 0
3
2
1
0
−1
−2

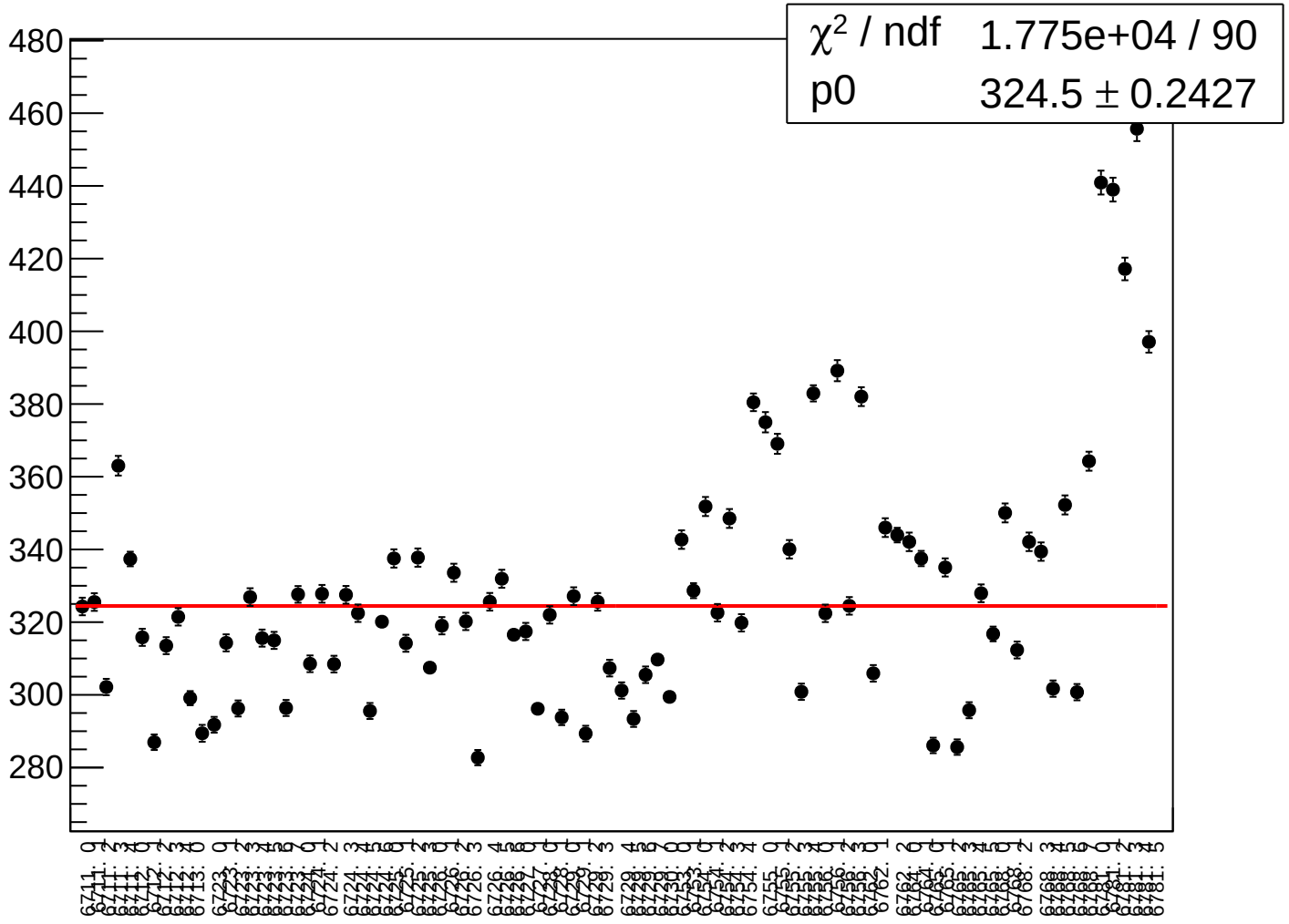

pull1D
Entries 91
Mean 0.01373
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

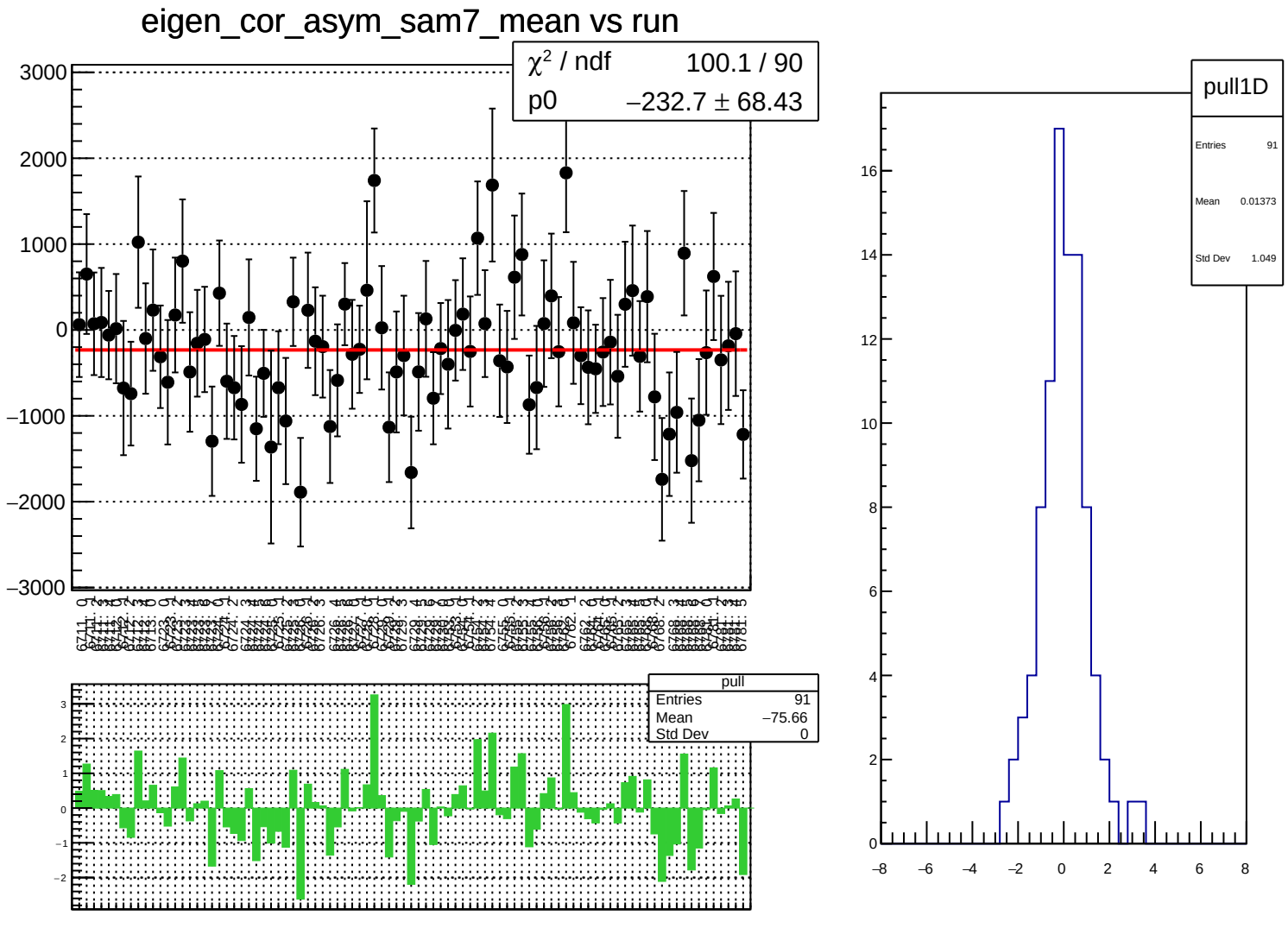

cor_asym_sam7_rms vs run
χ^2 / ndf 1.654e+04 / 90
p0 64.7 ± 0.04839
110
100
90
80
70
60

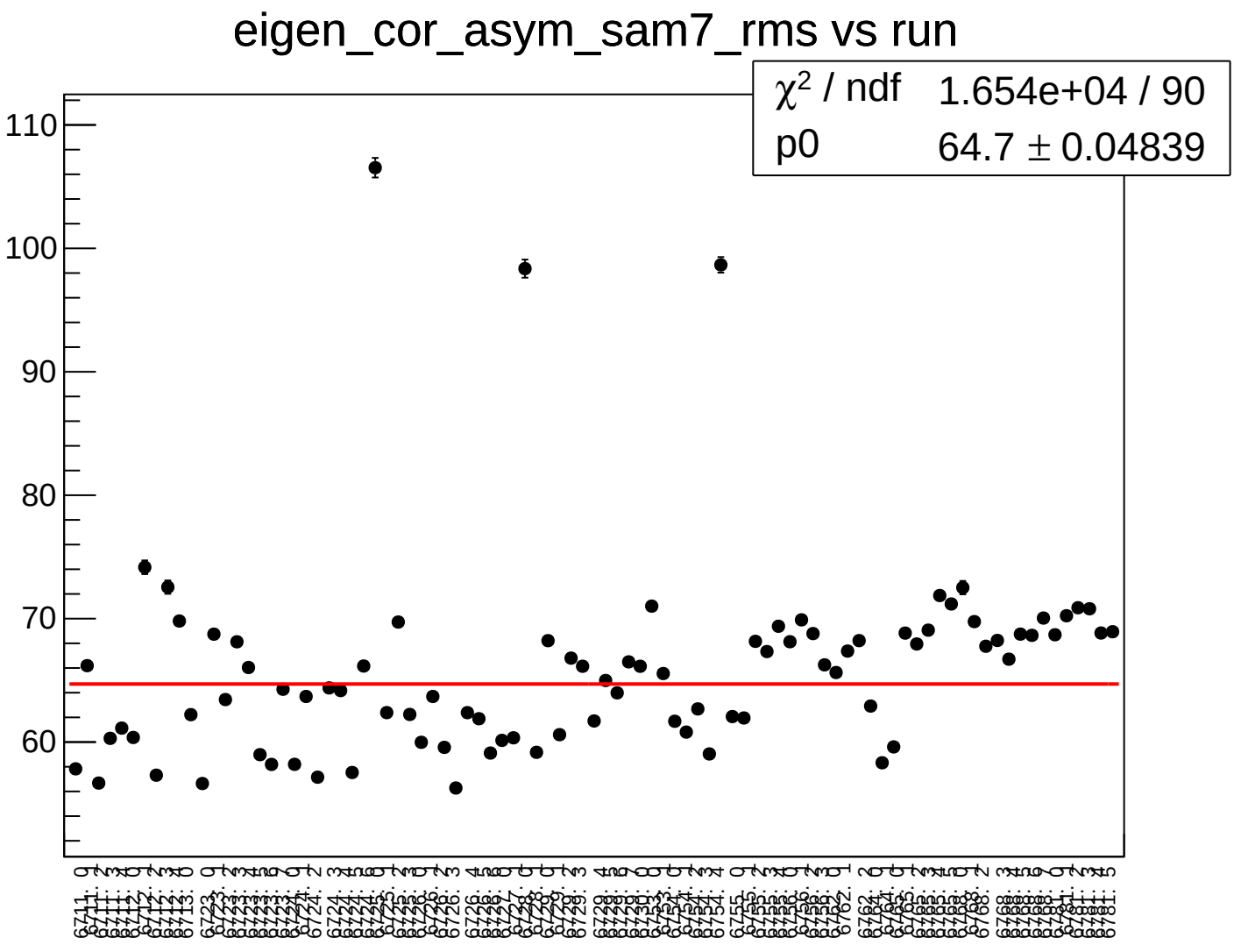

asym_sam7_cor_correction_mean vs run
χ² / ndf 107.2 / 90
p0 184.9 ± 343.3
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 54.67
Std Dev 69.84
3
2
1
0
−1
−2

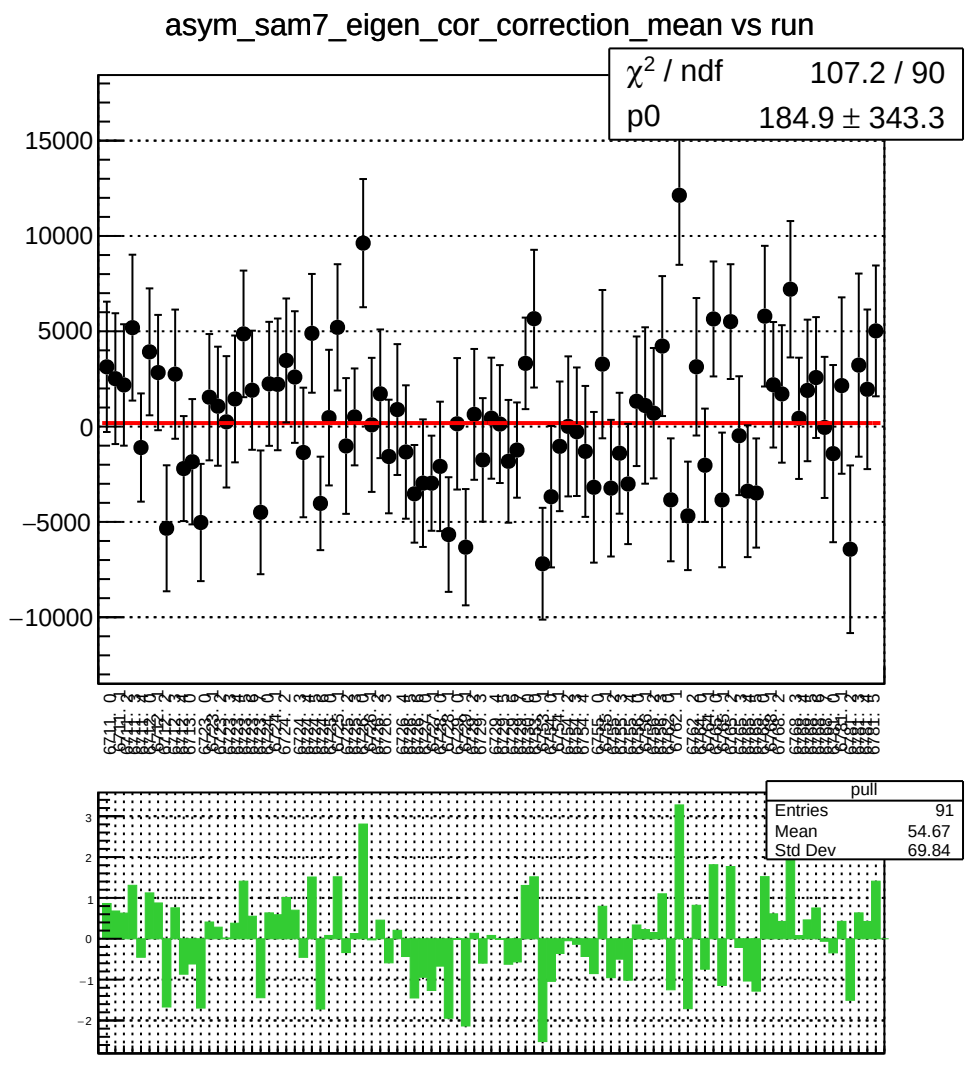

pull1D
Entries 91
Mean 0.03605
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

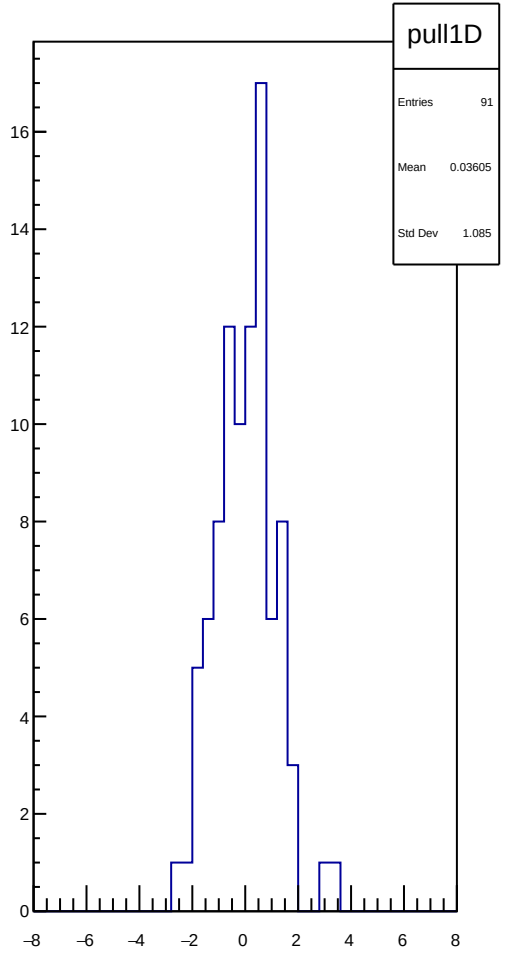
asym_sam7_cor_correction_rms vs run

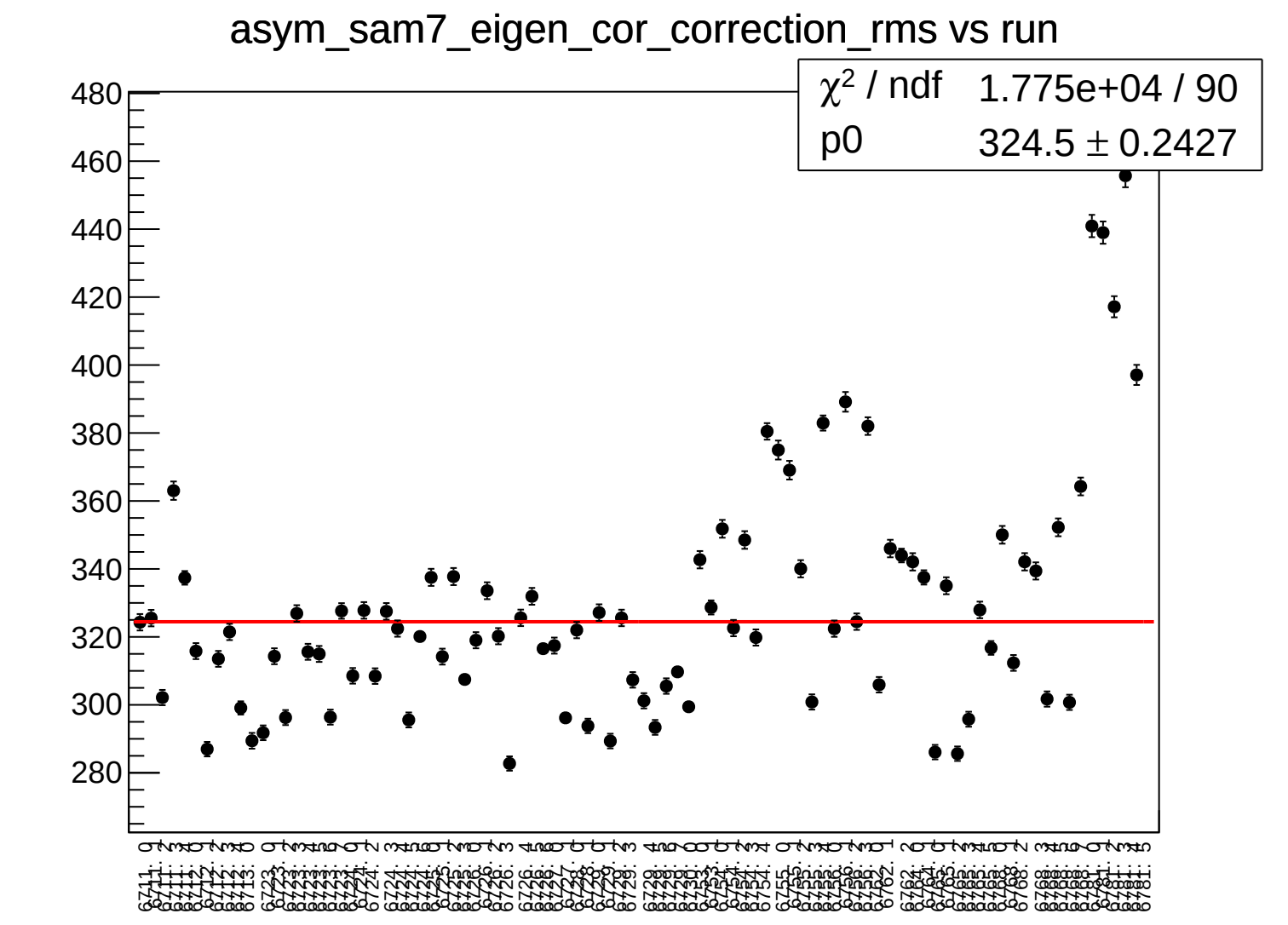


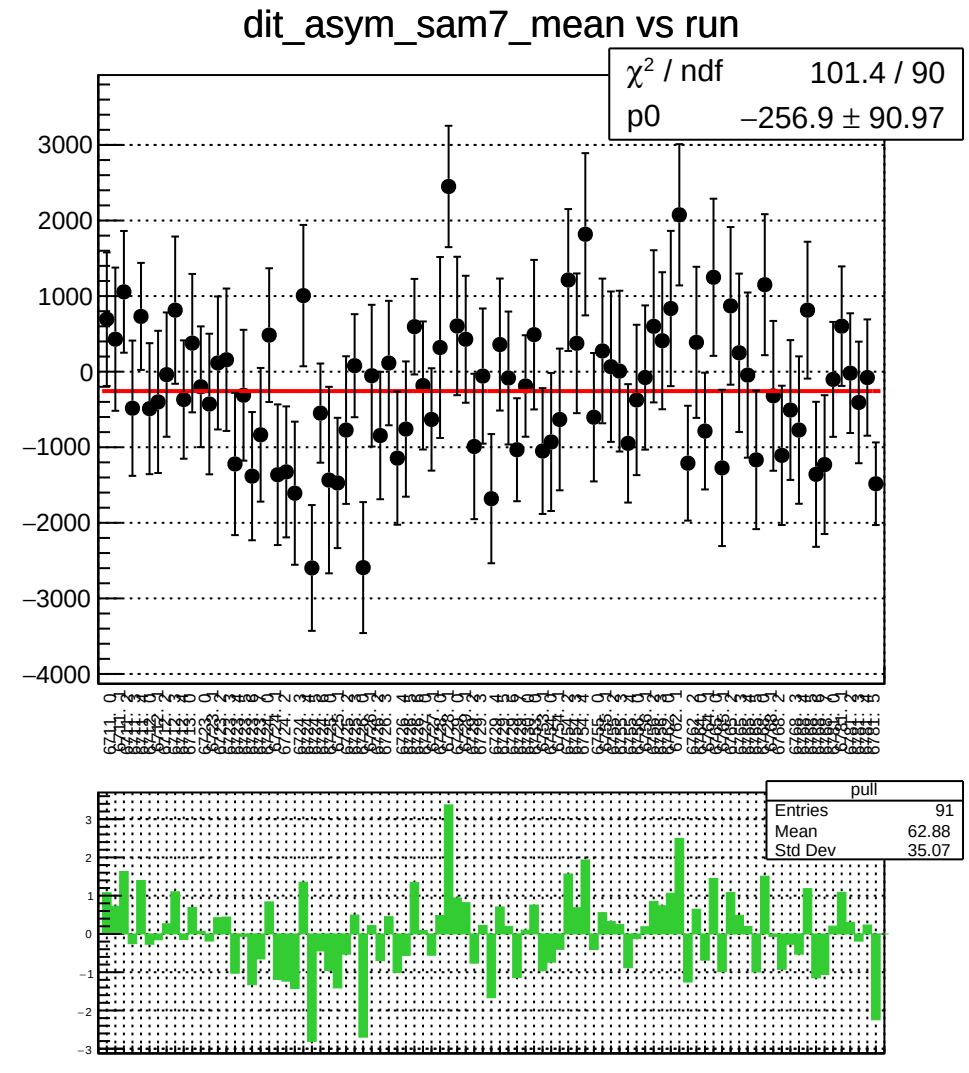

eigen_cor_asym_sam7_mean vs run
χ² / ndf 100.1 / 90
p0 −232.7 ± 68.43
pull
Entries 91
Mean −75.66
Std Dev 0
pull1D
Entries 91
Mean 0.01373
Std Dev 1.049

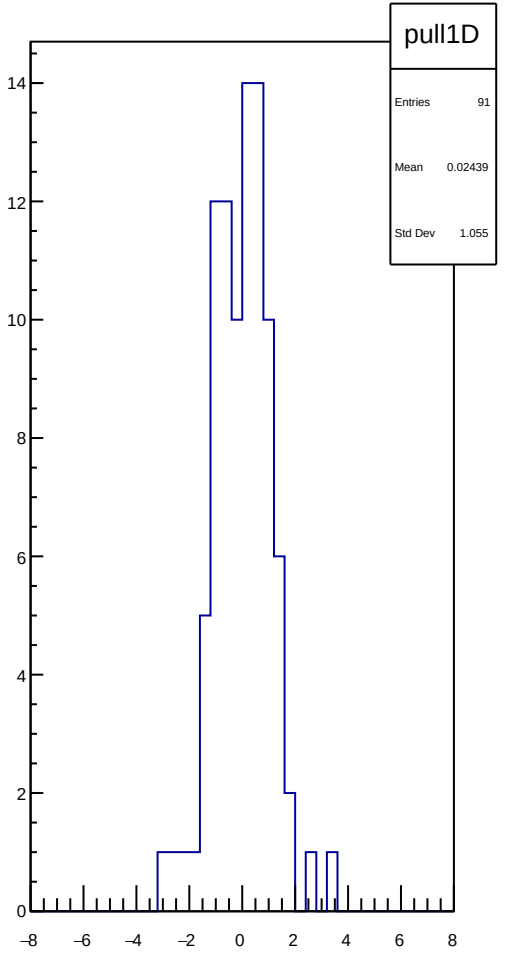

eigen_cor_asym_sam7_rms vs run
χ^2 / ndf 1.654e+04 / 90
p0 64.7 ± 0.04839
110
100
90
80
70
60

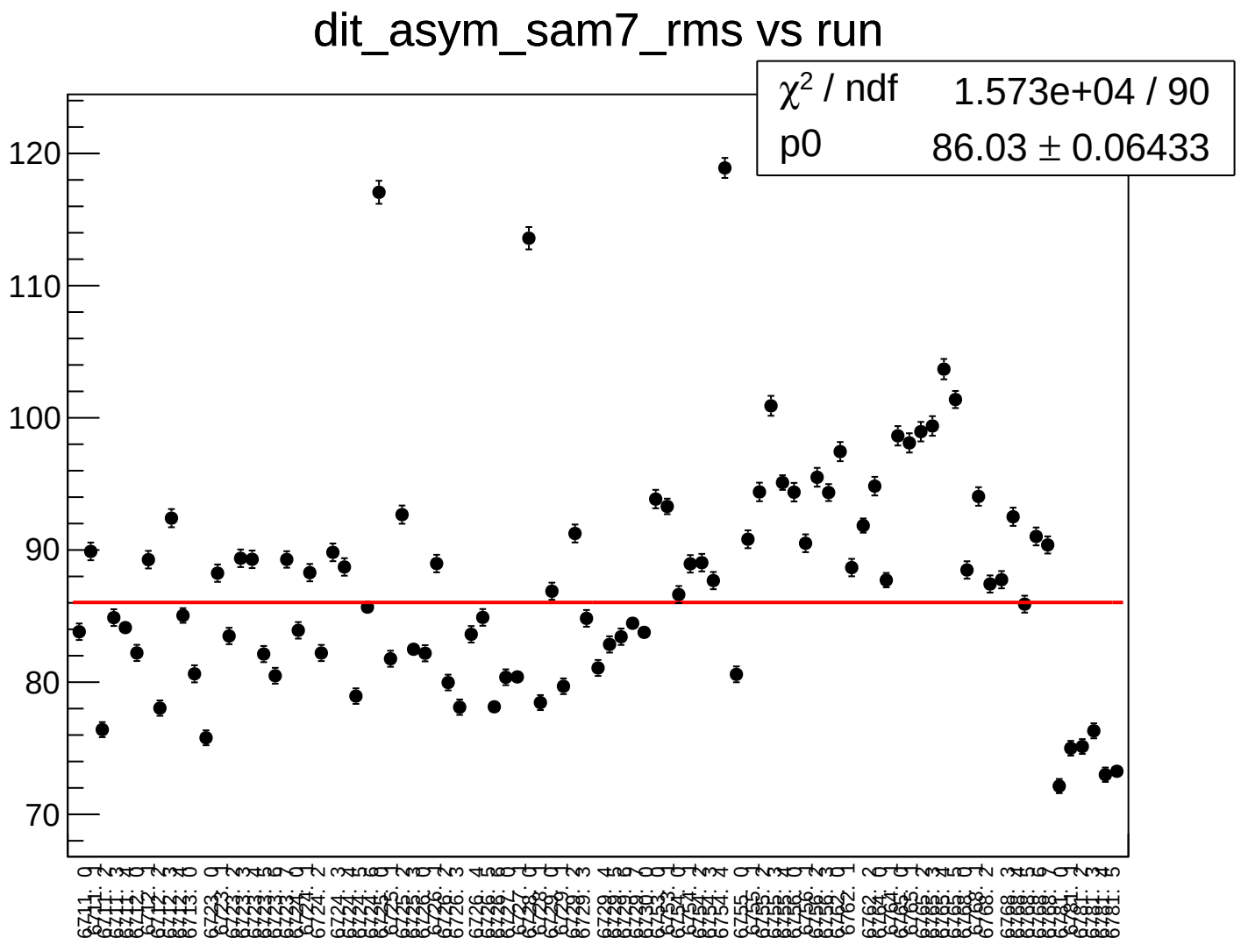

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 107.2 / 90
p0 184.9 ± 343.3
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 54.67
Std Dev 69.84
3
2
1
0
−1
−2

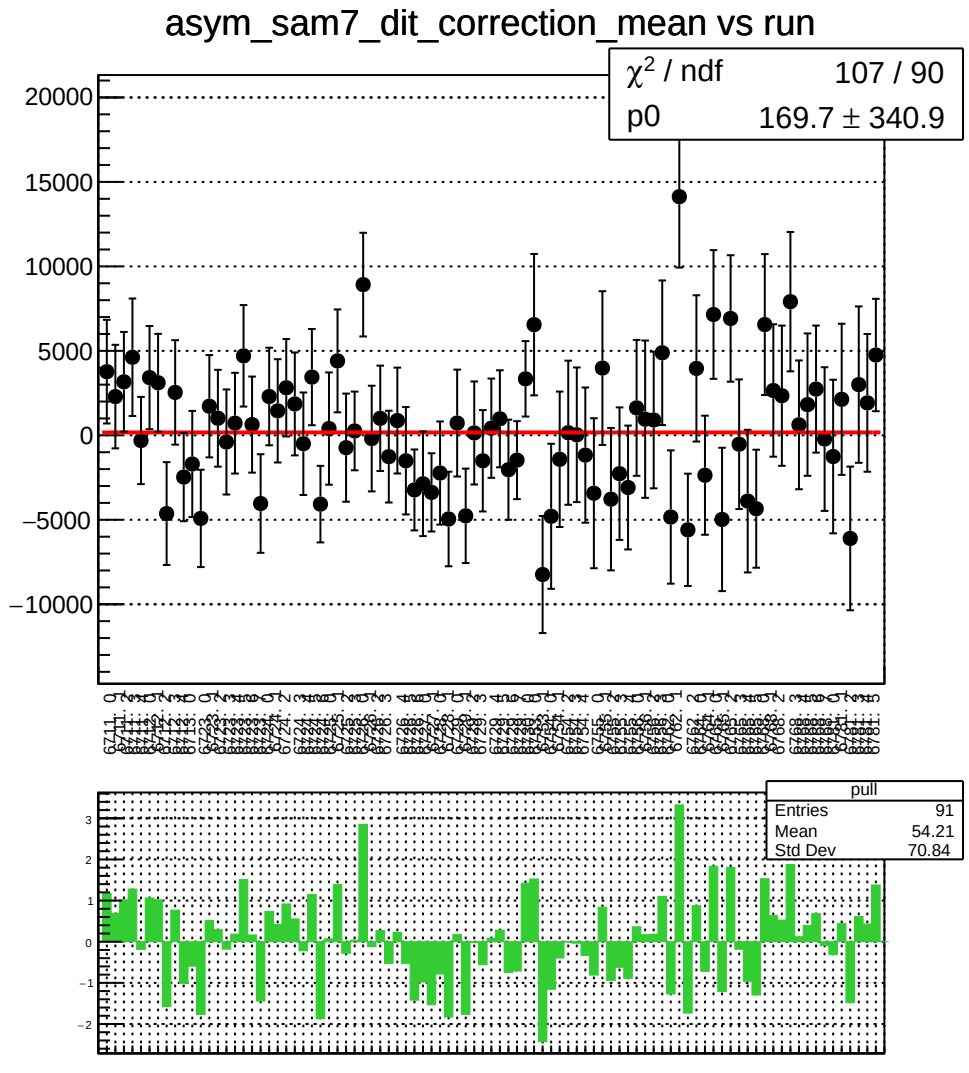

pull1D
Entries 91
Mean 0.03605
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

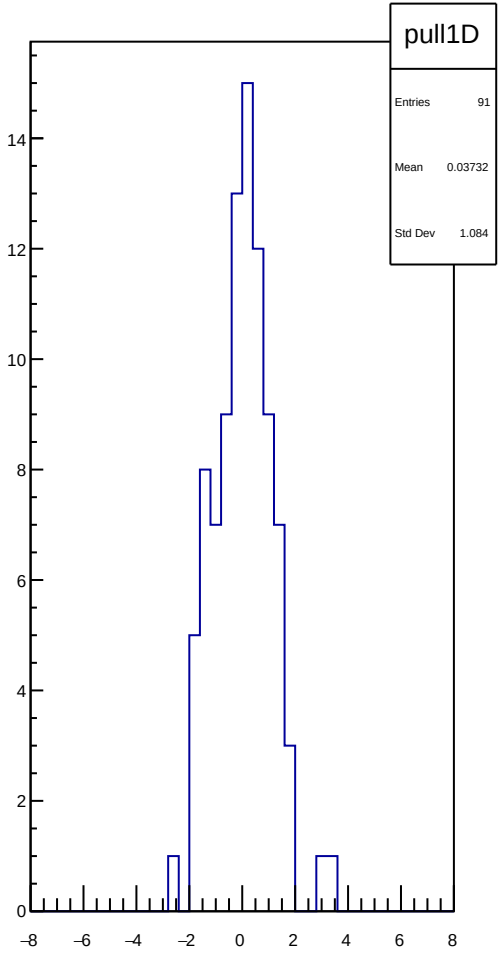

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 1.775e+04 / 90
p0 324.5 ± 0.2427
480
460
440
420
400
380
360
340
320
300
280

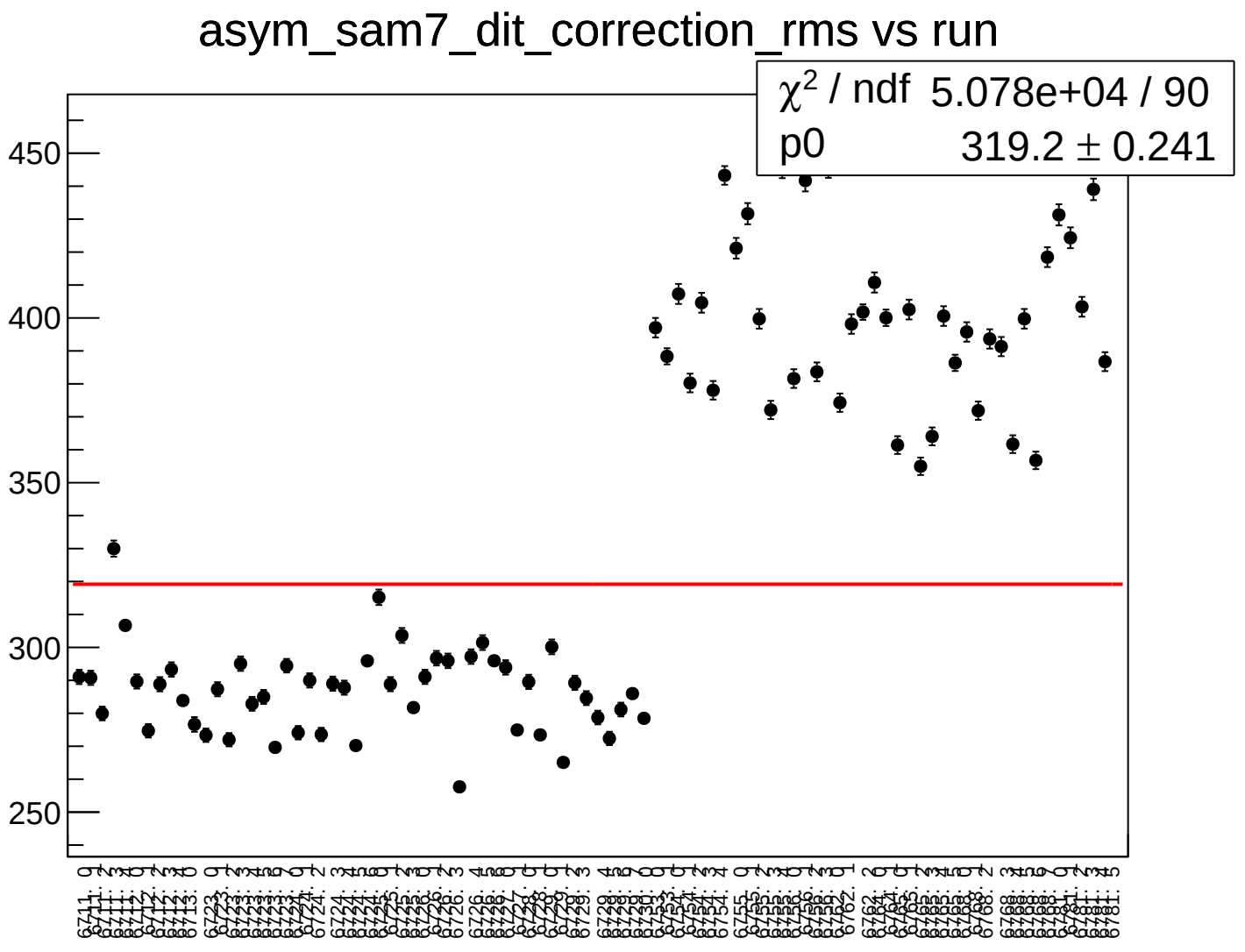

dit_asym_sam7_mean vs run
χ² / ndf 101.4 / 90
p0 −256.9 ± 90.97
pull
Entries 91
Mean 62.88
Std Dev 35.07

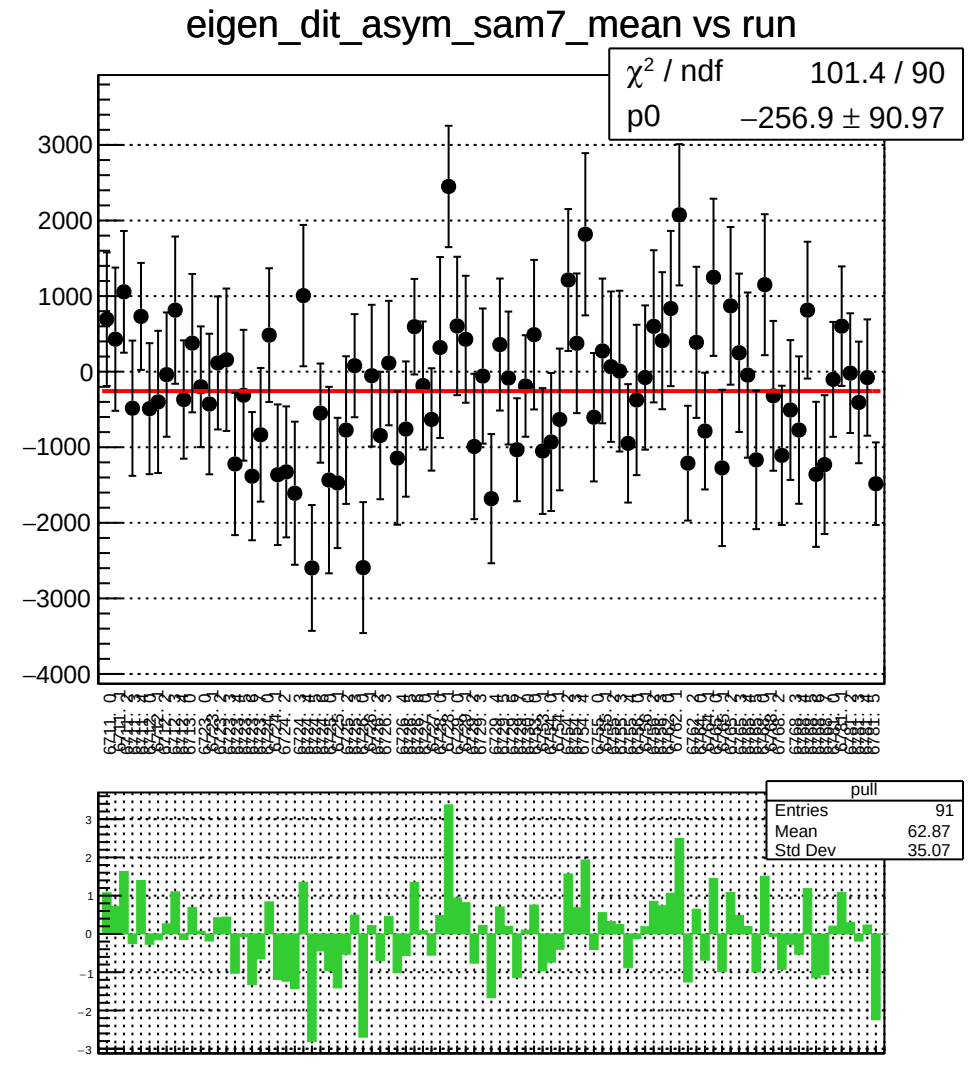

pull1D
Entries 91
Mean 0.02439
Std Dev 1.055

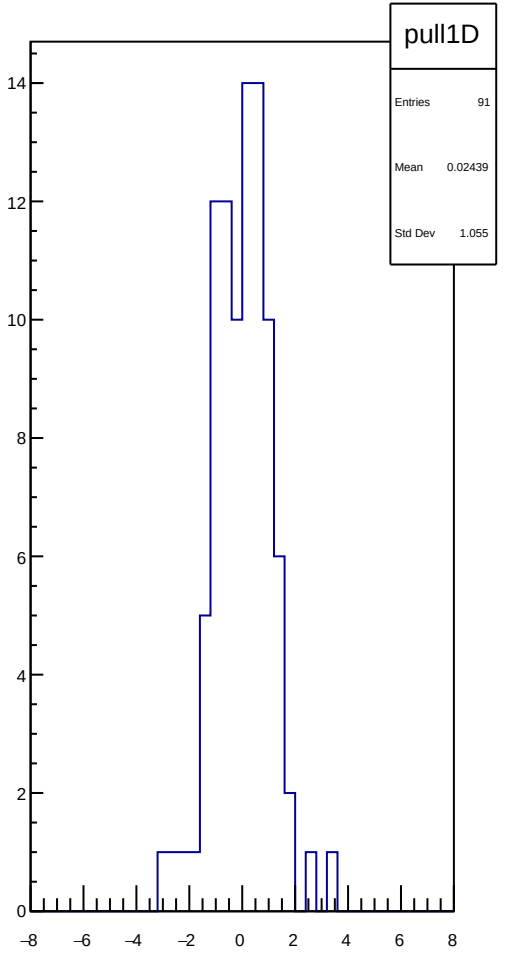

dit_asym_sam7_rms vs run
χ^2 / ndf 1.573e+04 / 90
p0 86.03 ± 0.06433
120
110
100
90
80
70

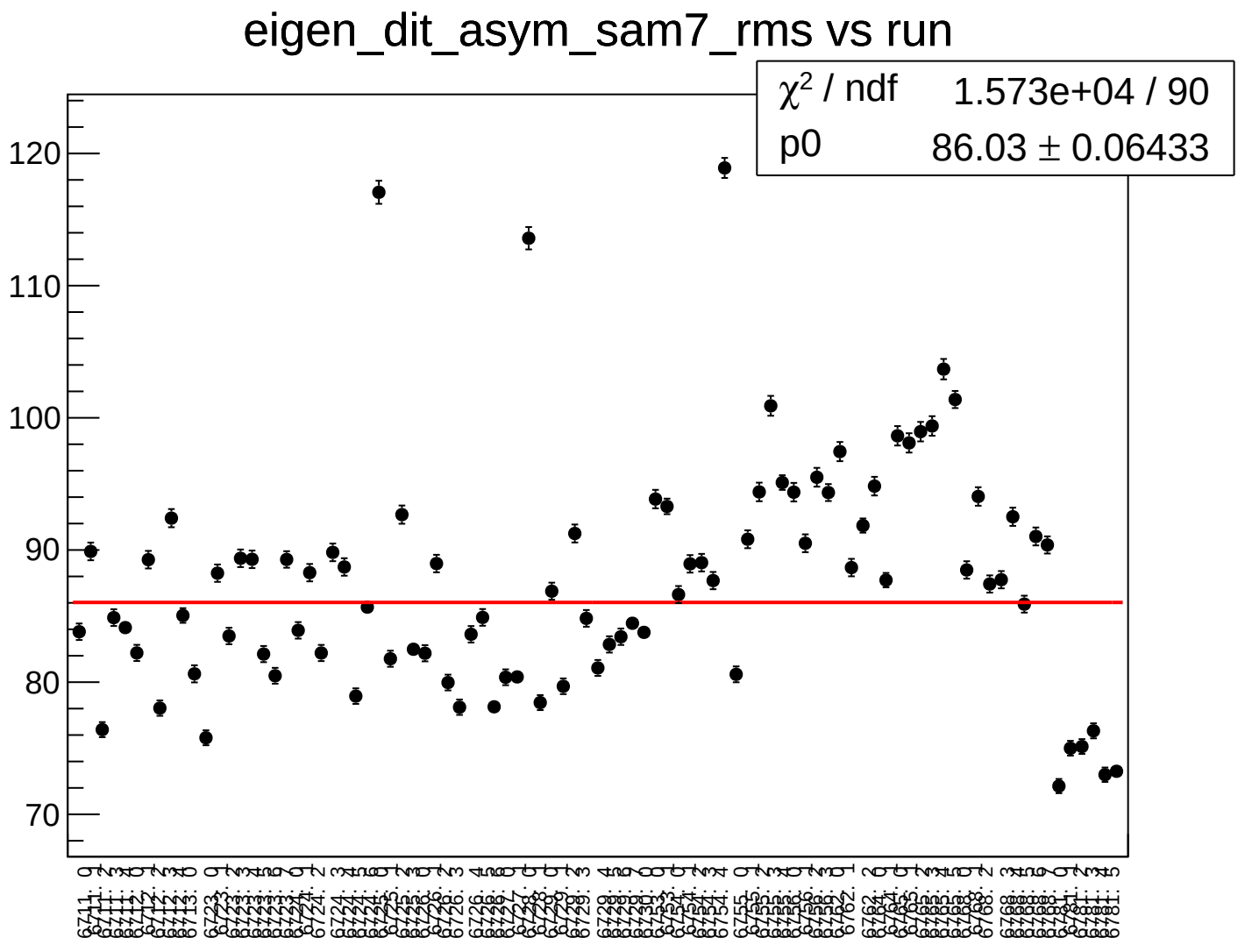

asym_sam7_dit_correction_mean vs run
χ² / ndf 107 / 90
p0 169.7 ± 340.9
pull
Entries 91
Mean 54.21
Std Dev 70.84

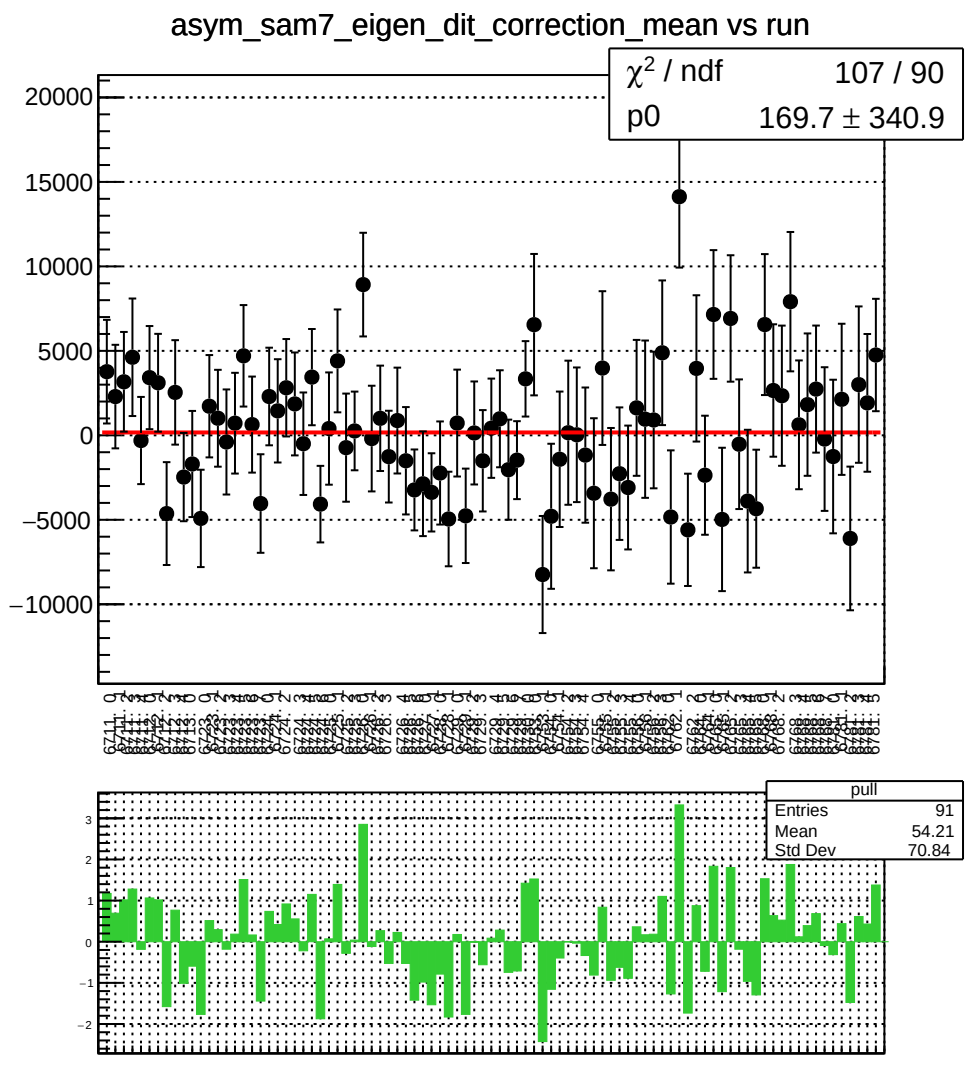

pull1D
Entries 91
Mean 0.03732
Std Dev 1.084

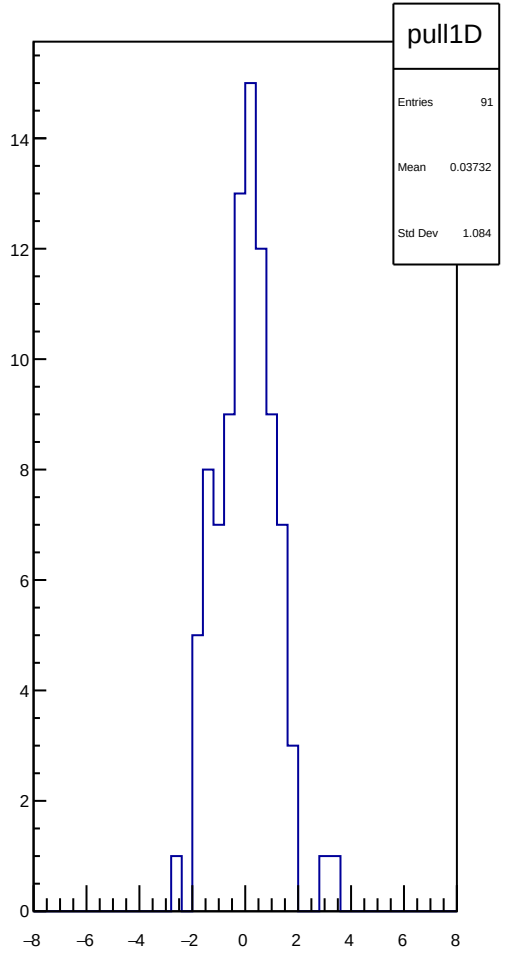

asym_sam7_dit_correction_rms vs run
χ² / ndf 5.078e+04 / 90
p0 319.2 ± 0.241
450
400
350
300
250

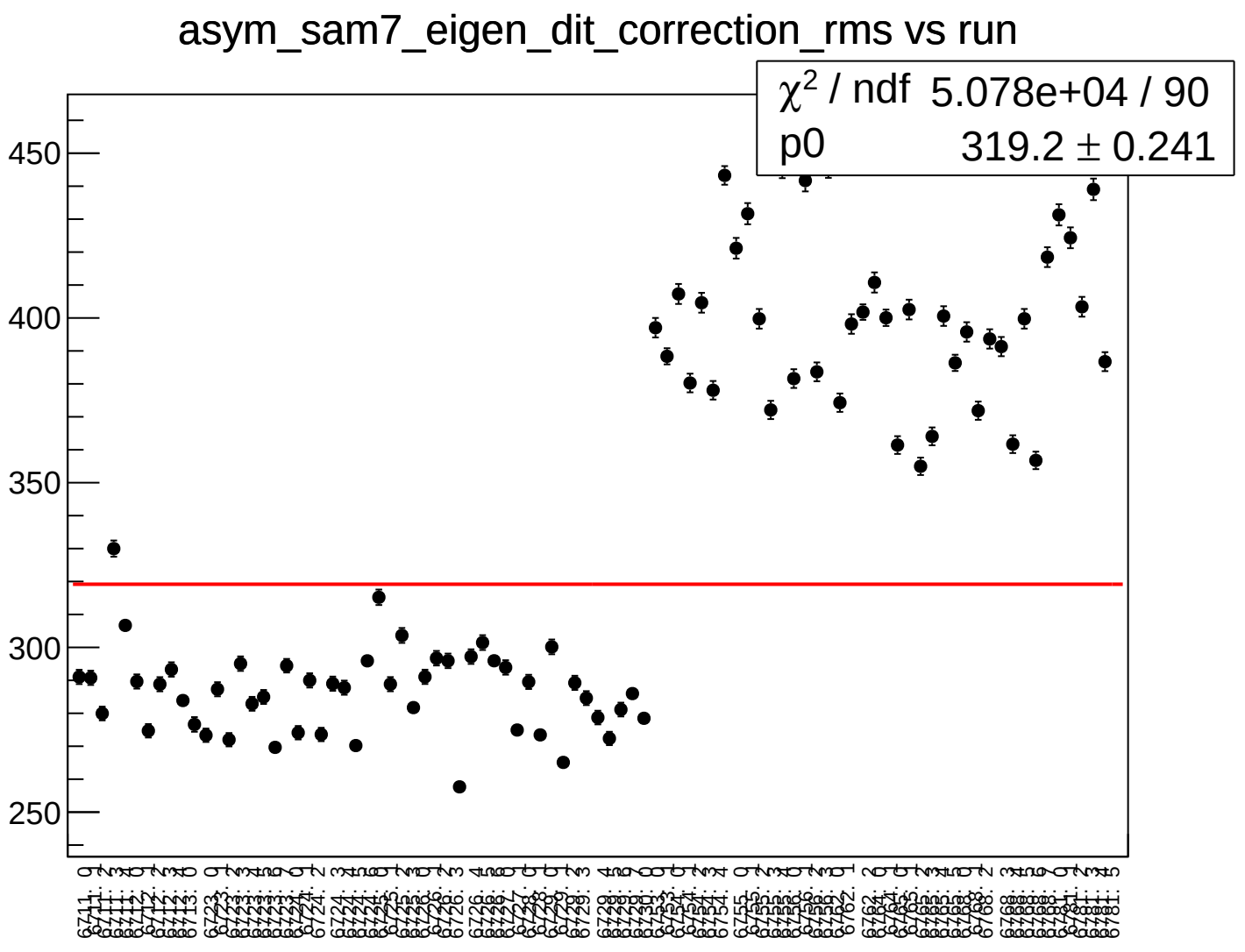

eigen_dit_asym_sam7_mean vs run
χ² / ndf 101.4 / 90
p0 −256.9 ± 90.97
pull
Entries 91
Mean 62.87
Std Dev 35.07

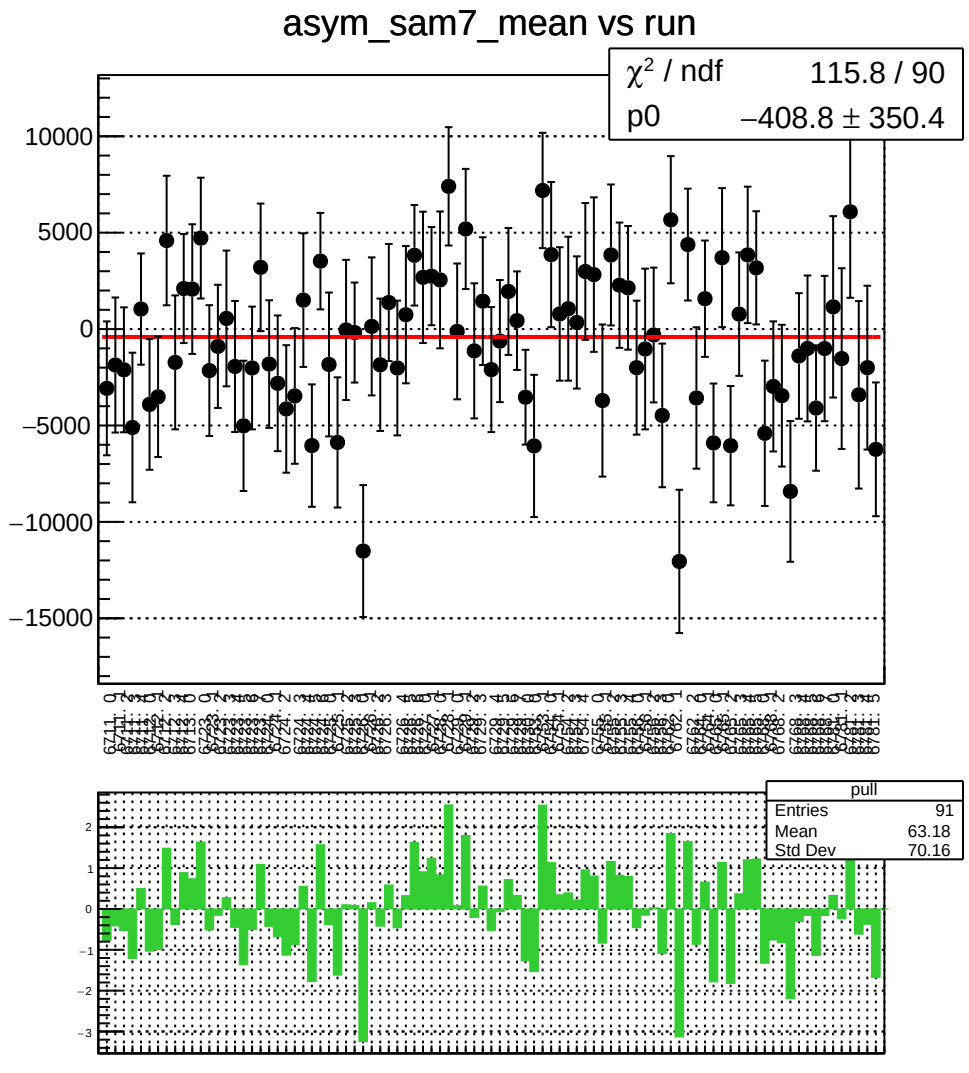

pull1D
Entries 91
Mean 0.02439
Std Dev 1.055

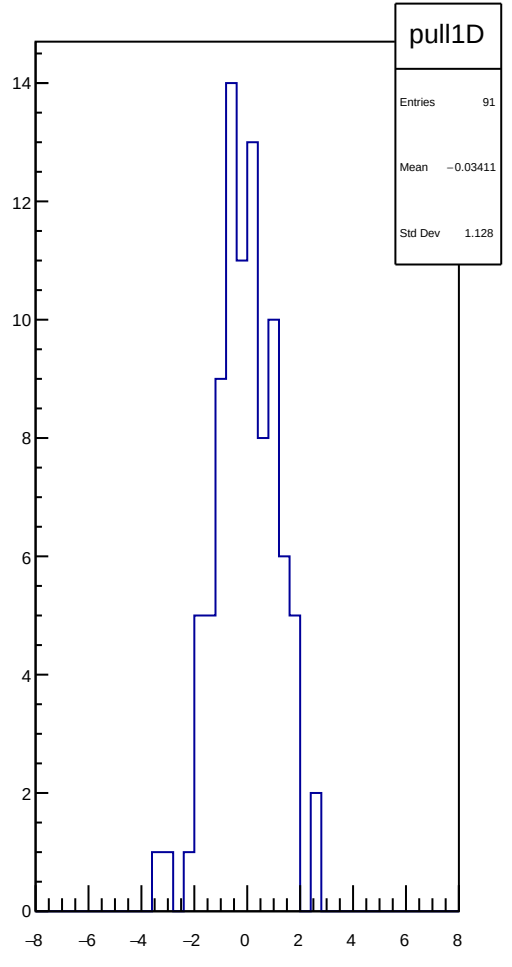

eigen_dit_asym_sam7_rms vs run
χ^2 / ndf 1.573e+04 / 90
p0 86.03 ± 0.06433
120
110
100
90
80
70

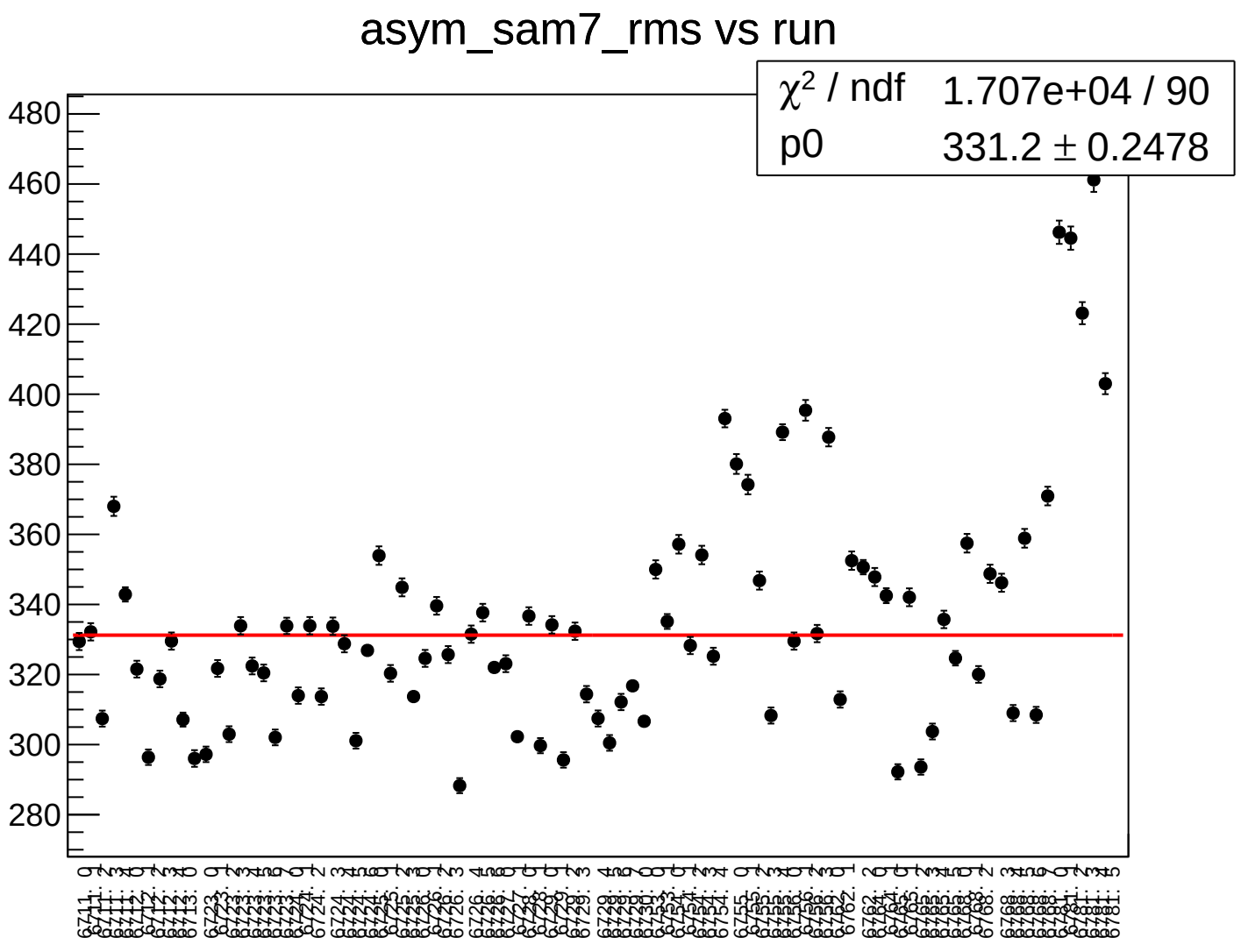

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 107 / 90
p0 169.7 ± 340.9
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 54.21
Std Dev 70.84
3
2
1
0
−1
−2

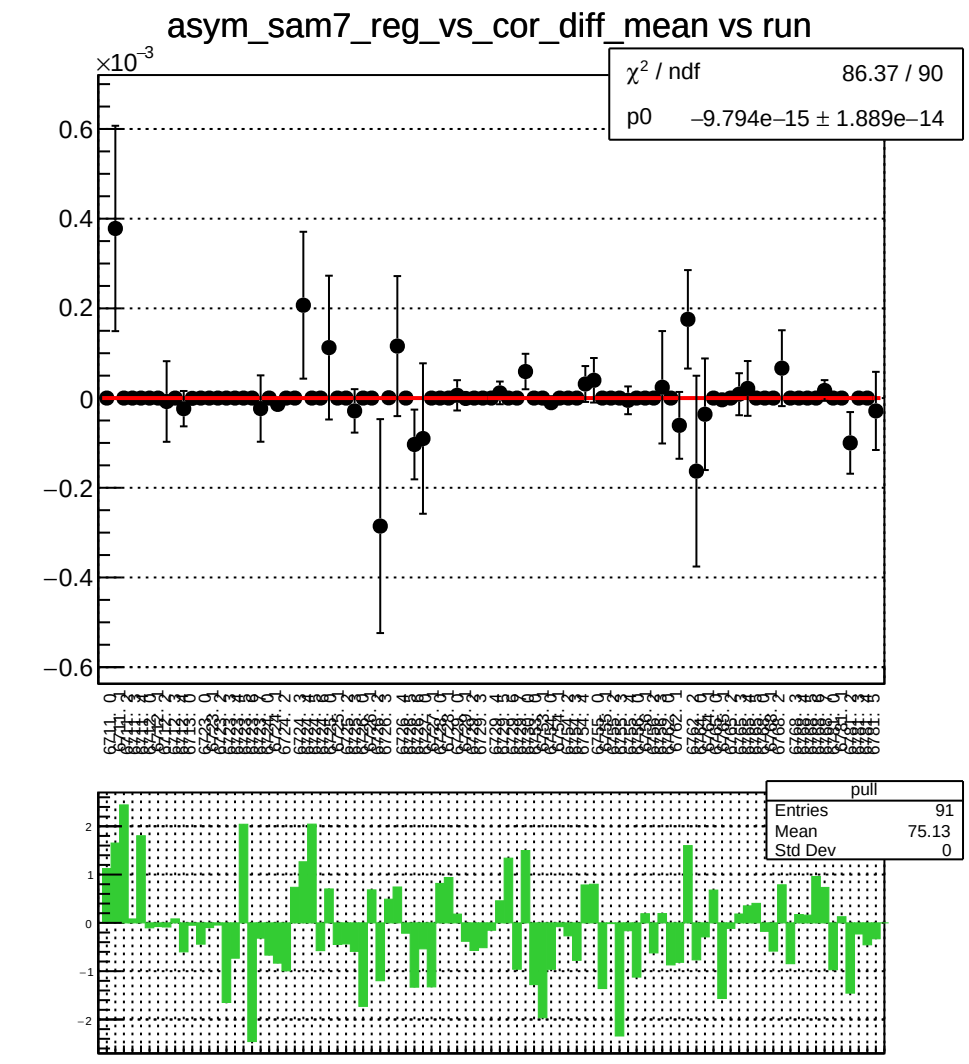

pull1D
Entries 91
Mean 0.03732
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

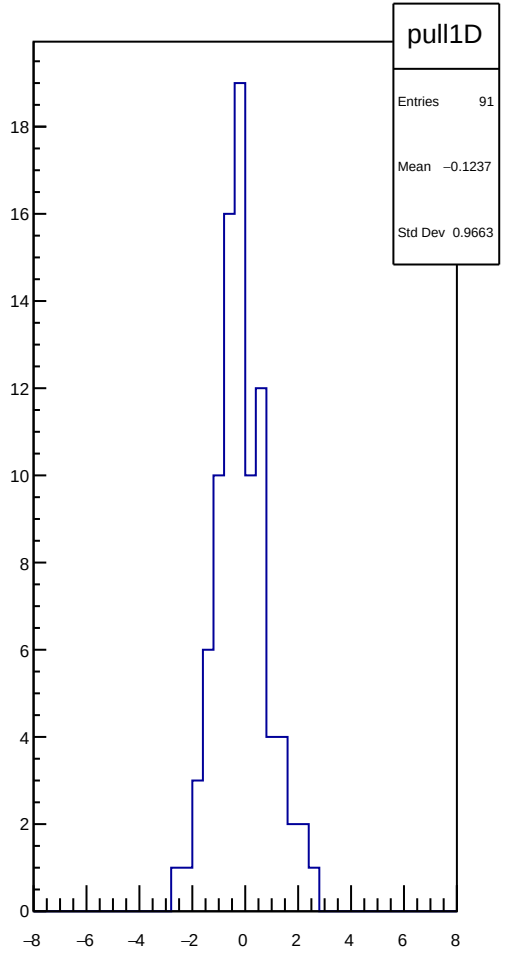

asym_sam7_eigen_dit_correction_rms vs run
χ^2 / ndf 5.078e+04 / 90
p0 319.2 ± 0.241
450
400
350
300
250

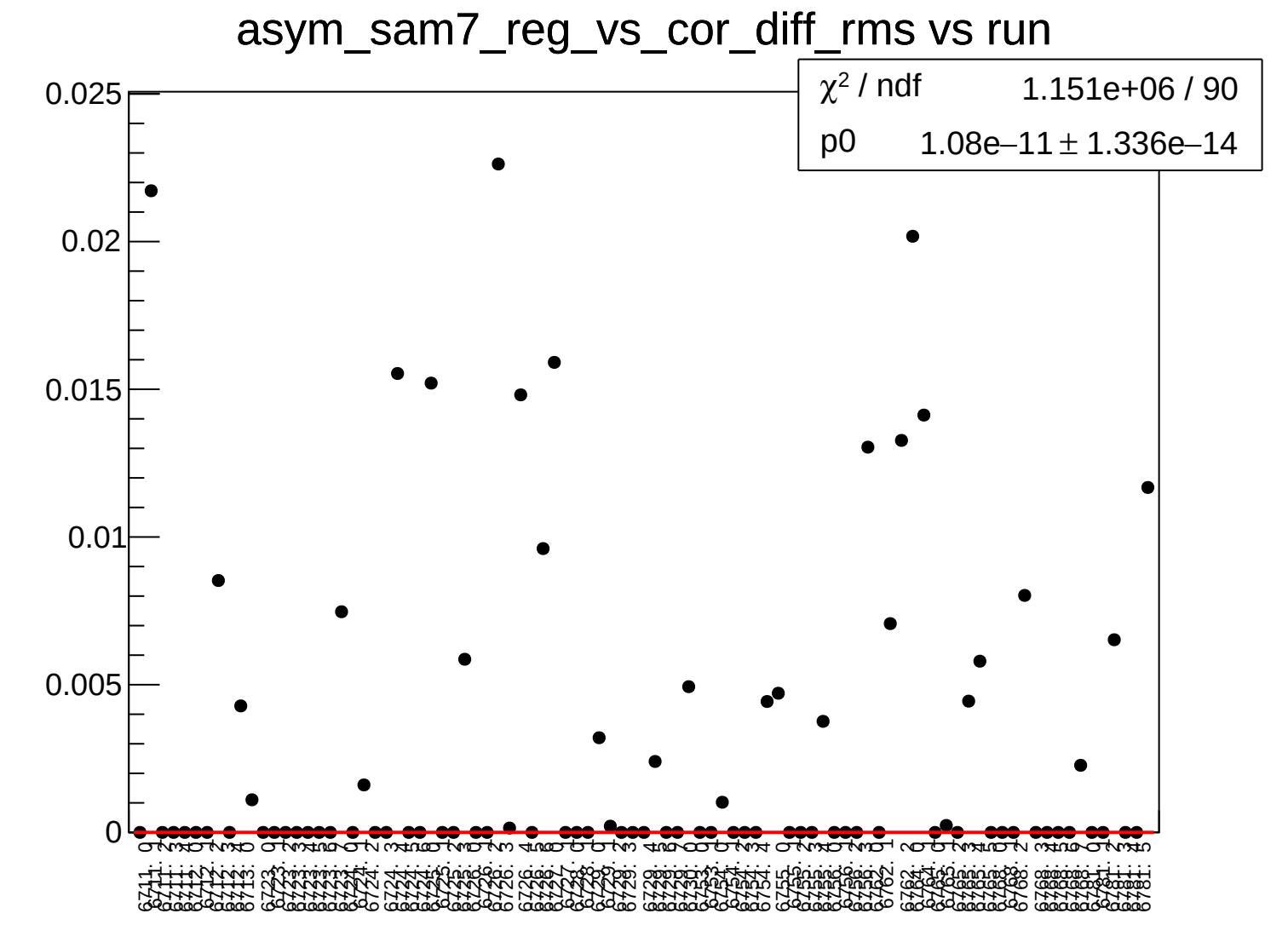

asym_sam7_mean vs run
χ² / ndf 115.8 / 90
p0 −408.8 ± 350.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 63.18
Std Dev 70.16
2
1
0
−1
−2
−3

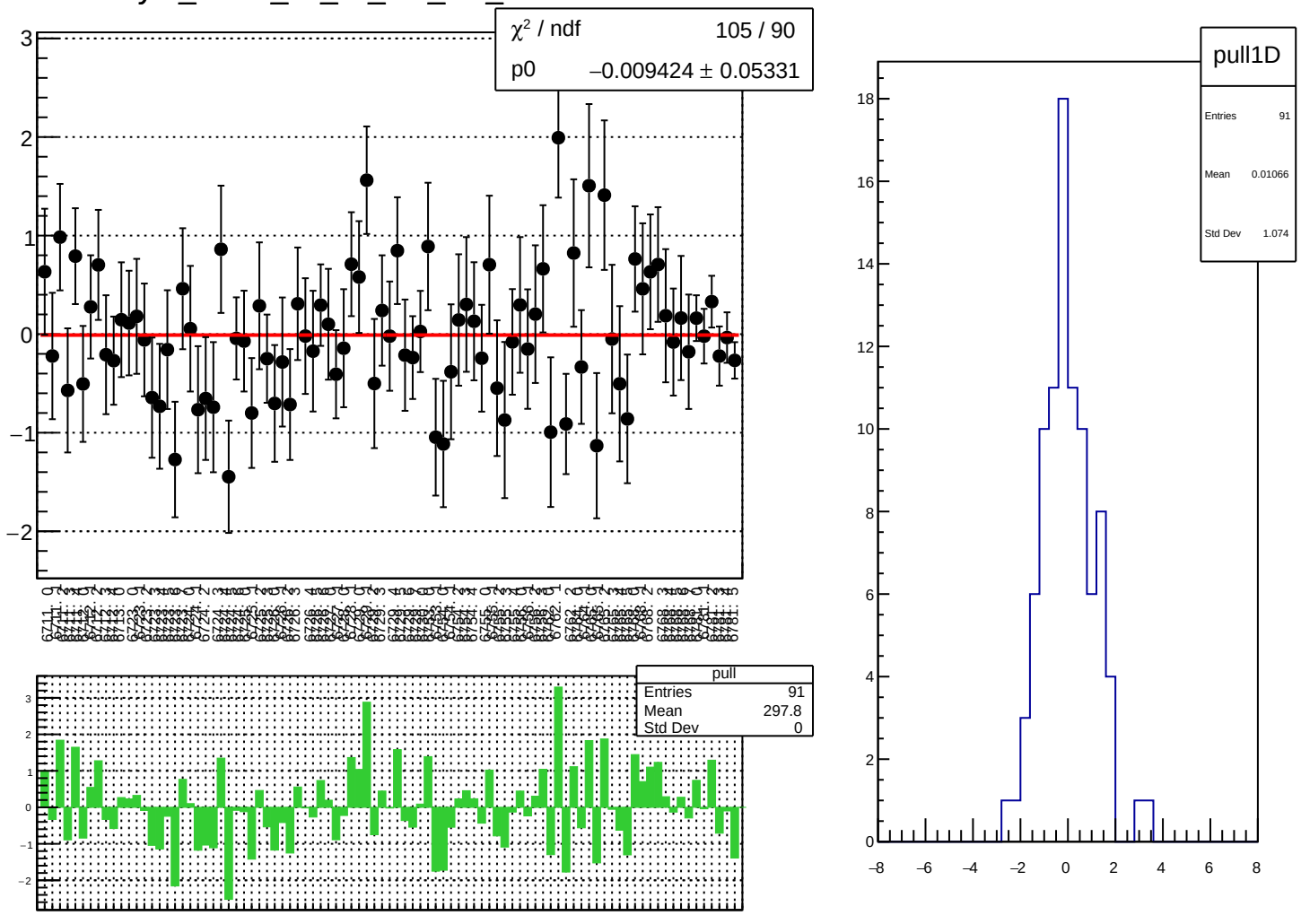

pull1D
Entries 91
Mean −0.03411
Std Dev 1.128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

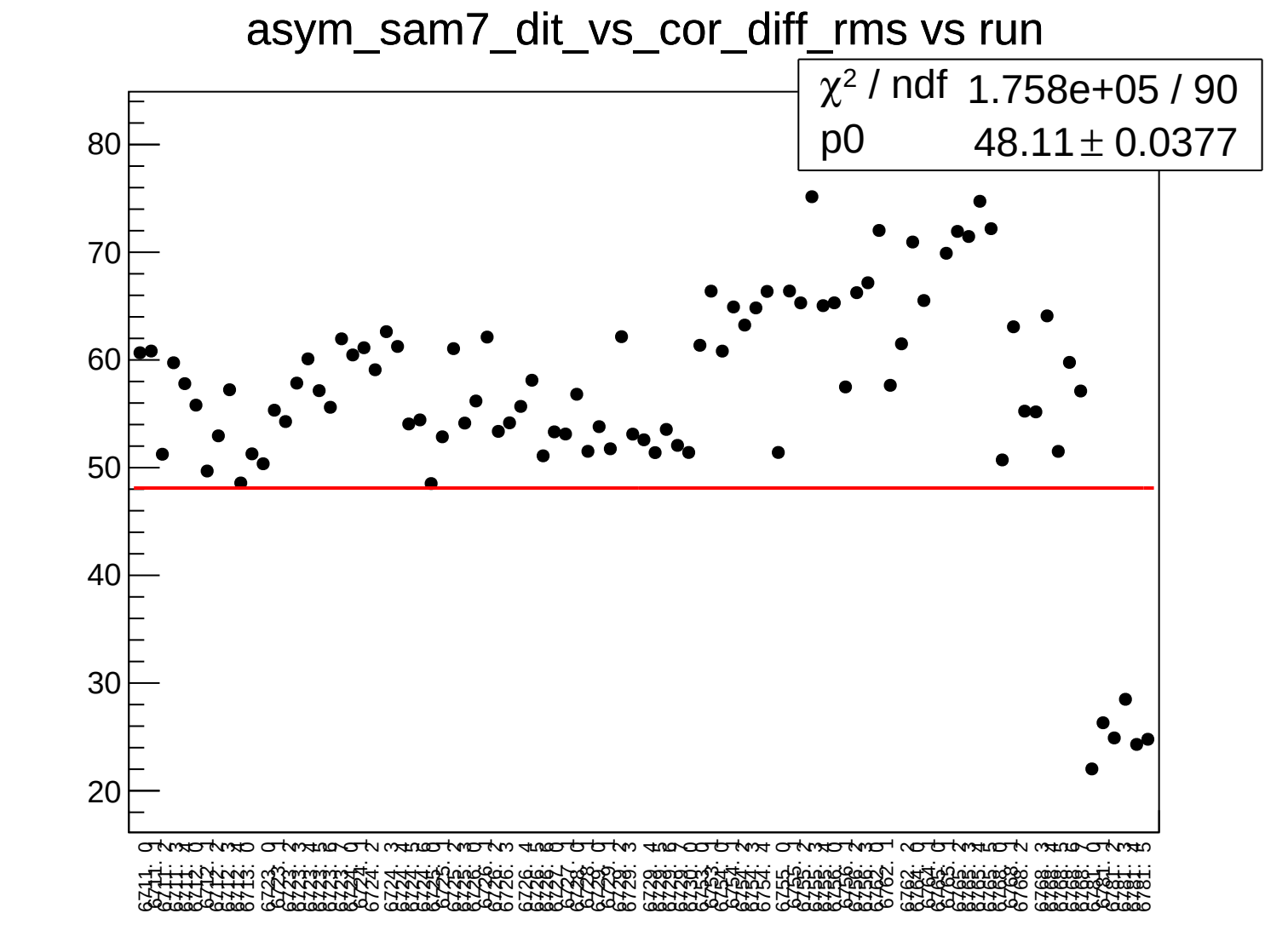

asym_sam7_rms vs run
χ² / ndf 1.707e+04 / 90
p0 331.2 ± 0.2478
480
460
440
420
400
380
360
340
320
300
280

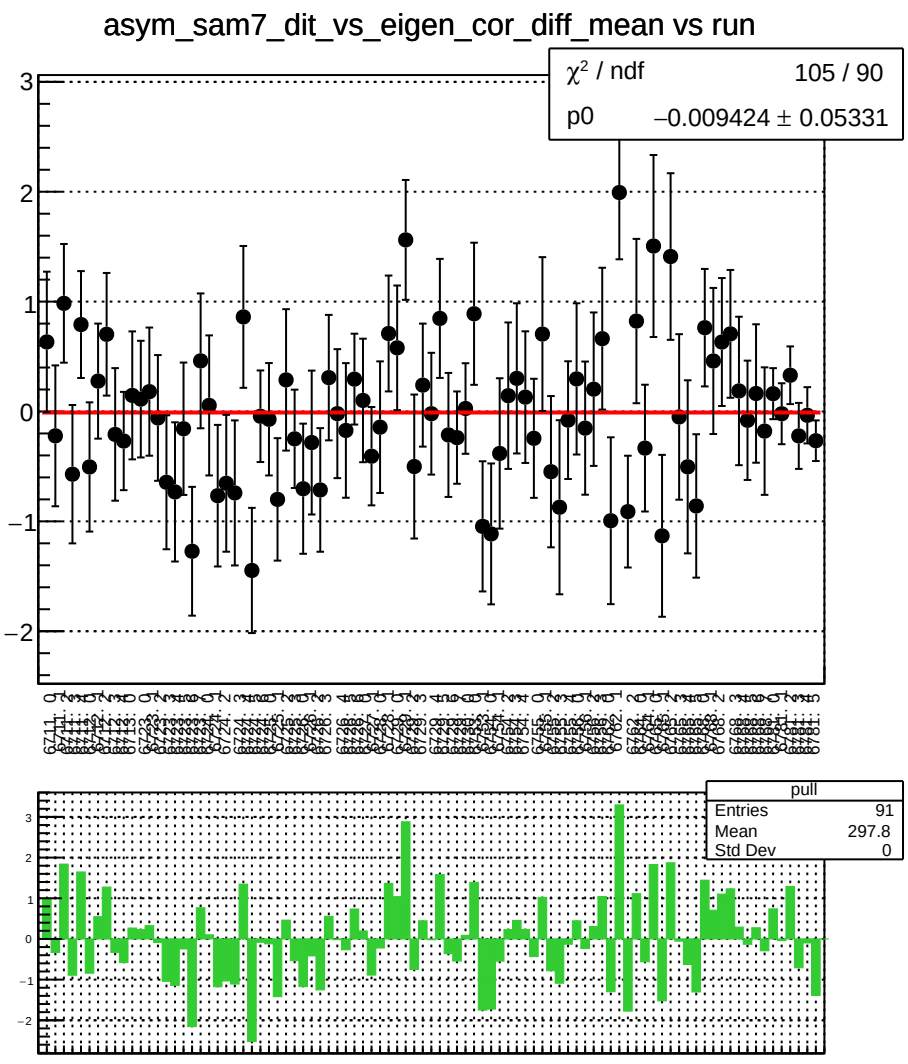

asym_sam7_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 86.37 / 90
p0 −9.794e−15 ± 1.889e−14
pull
Entries 91
Mean 75.13
Std Dev 0

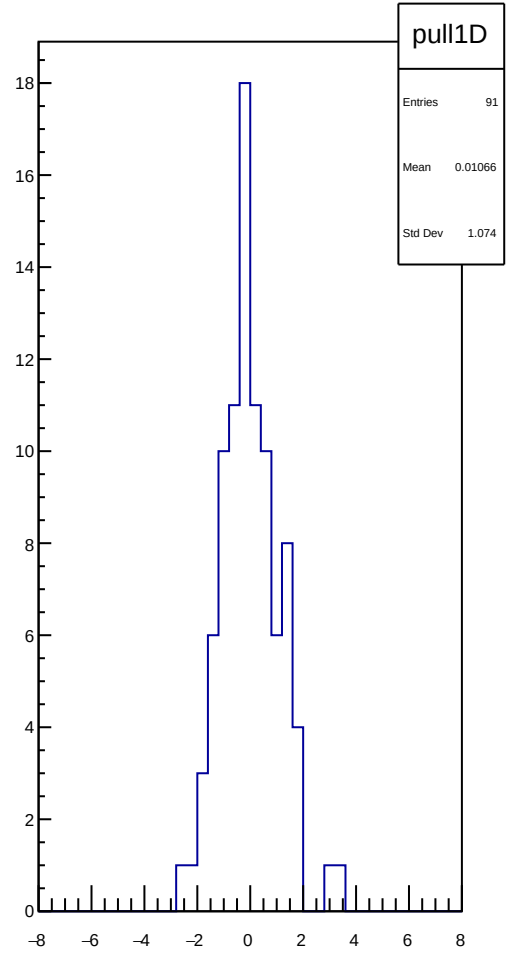

pull1D
Entries 91
Mean −0.1237
Std Dev 0.9663

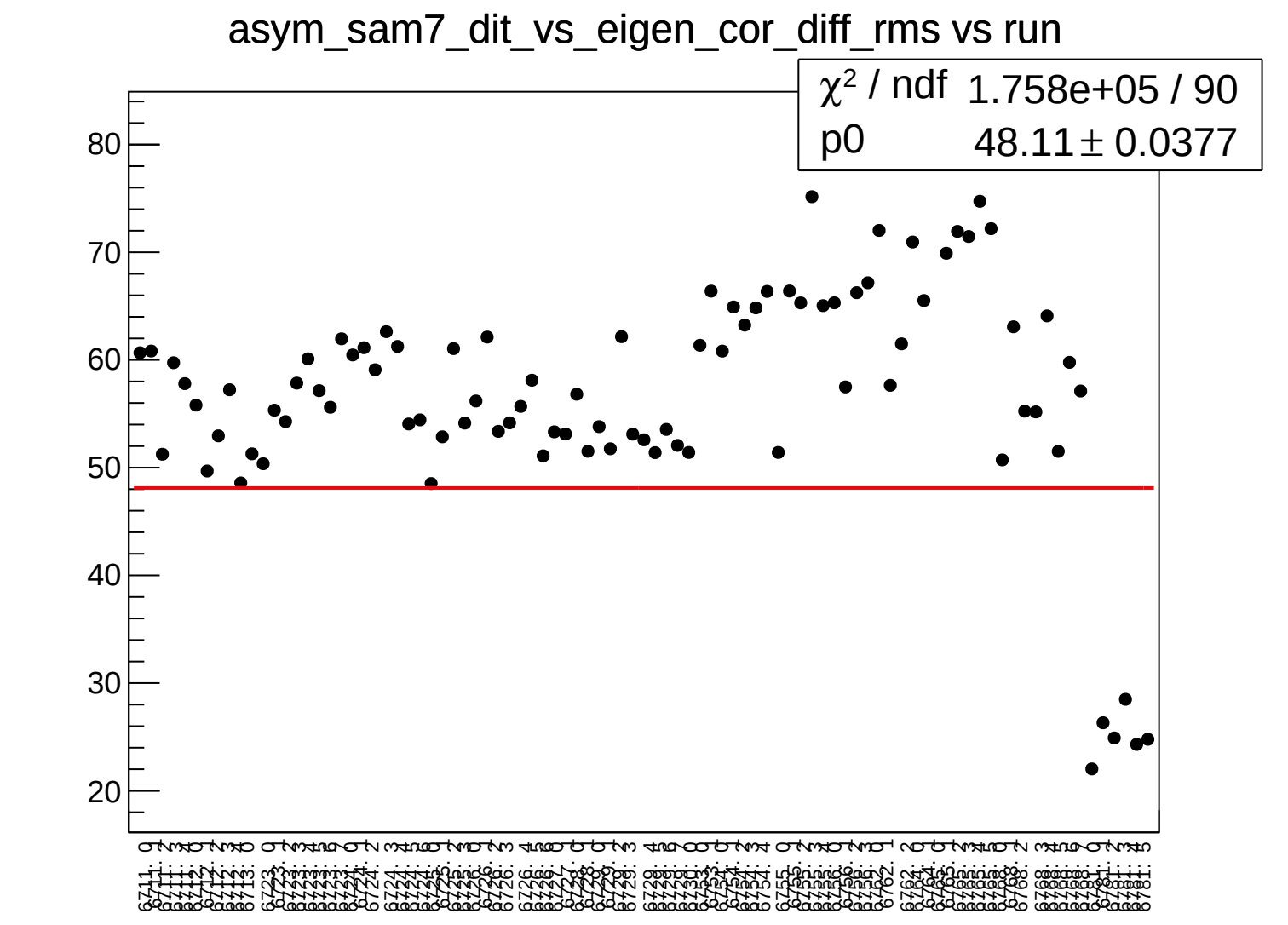

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.151e+06 / 90
p0 1.08e−11 ± 1.336e−14
0.025
0.02
0.015
0.01
0.005
0

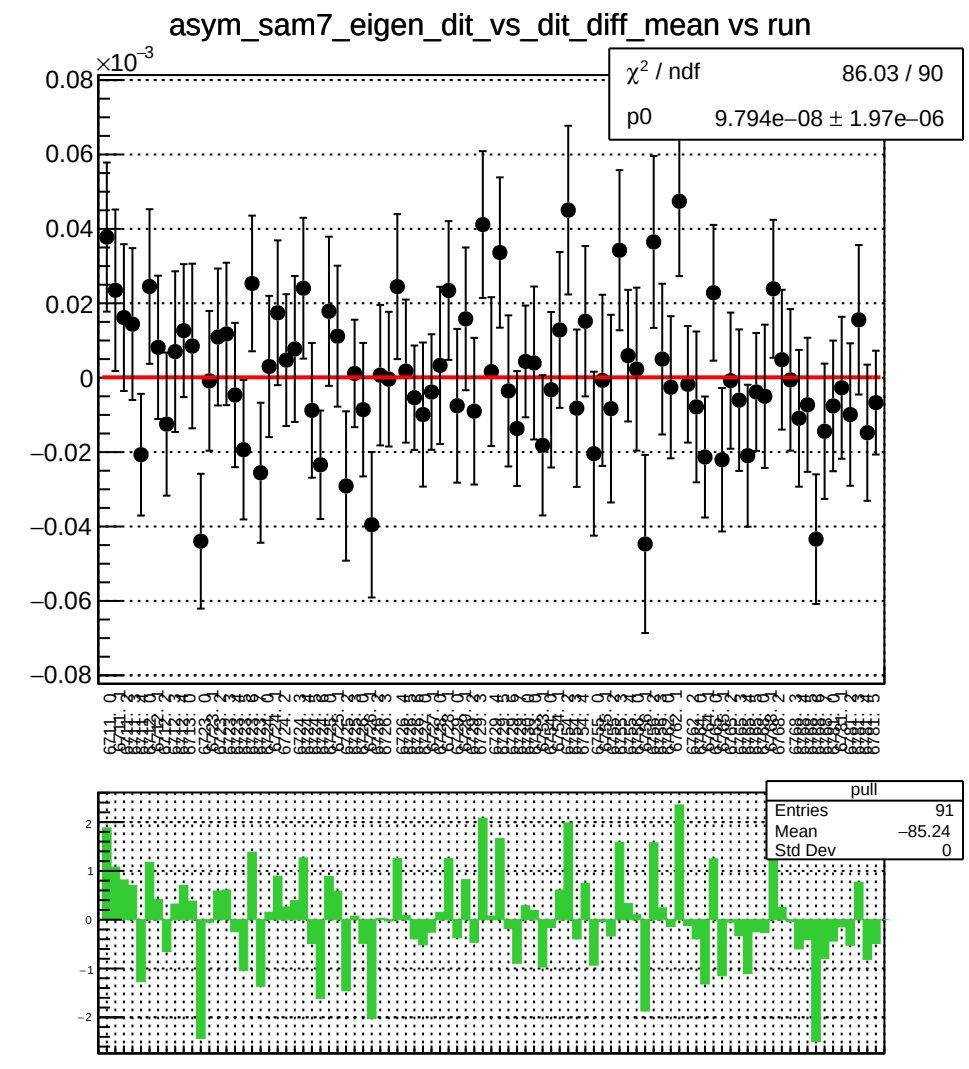

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 105 / 90
p0 −0.009424 ± 0.05331
pull
Entries 91
Mean 297.8
Std Dev 0
pull1D
Entries 91
Mean 0.01066
Std Dev 1.074

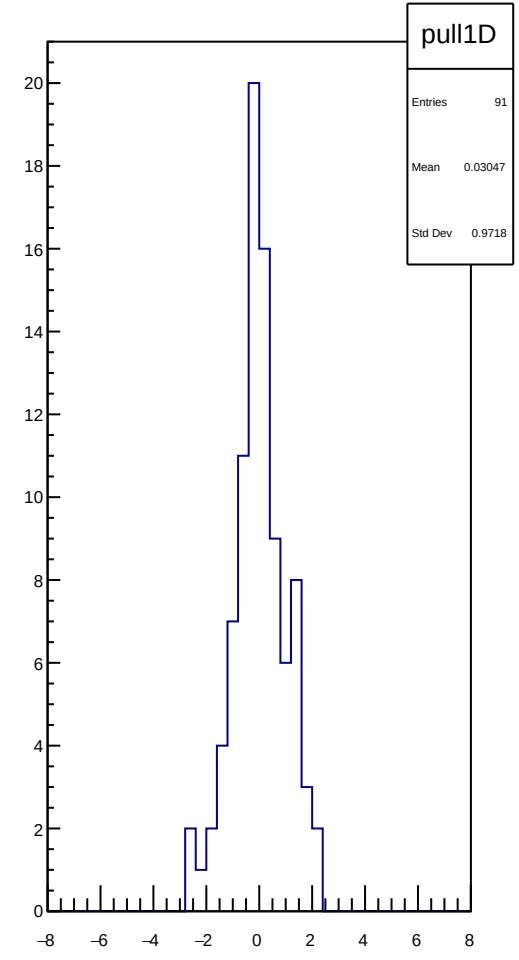

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 1.758e+05 / 90
p0 48.11 ± 0.0377
80
70
60
50
40
30
20

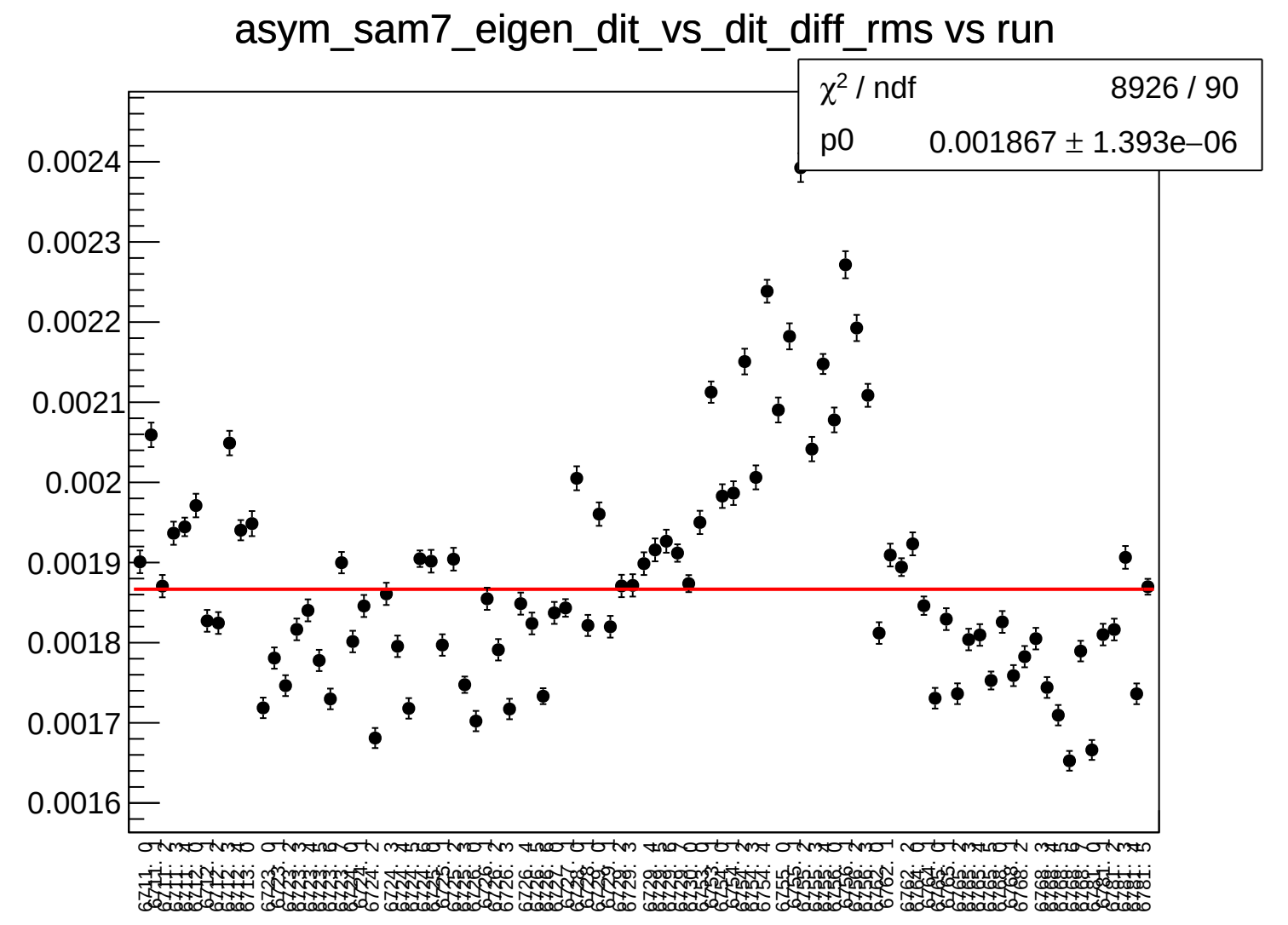

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105 / 90
p0 −0.009424 ± 0.05331
pull
Entries 91
Mean 297.8
Std Dev 0

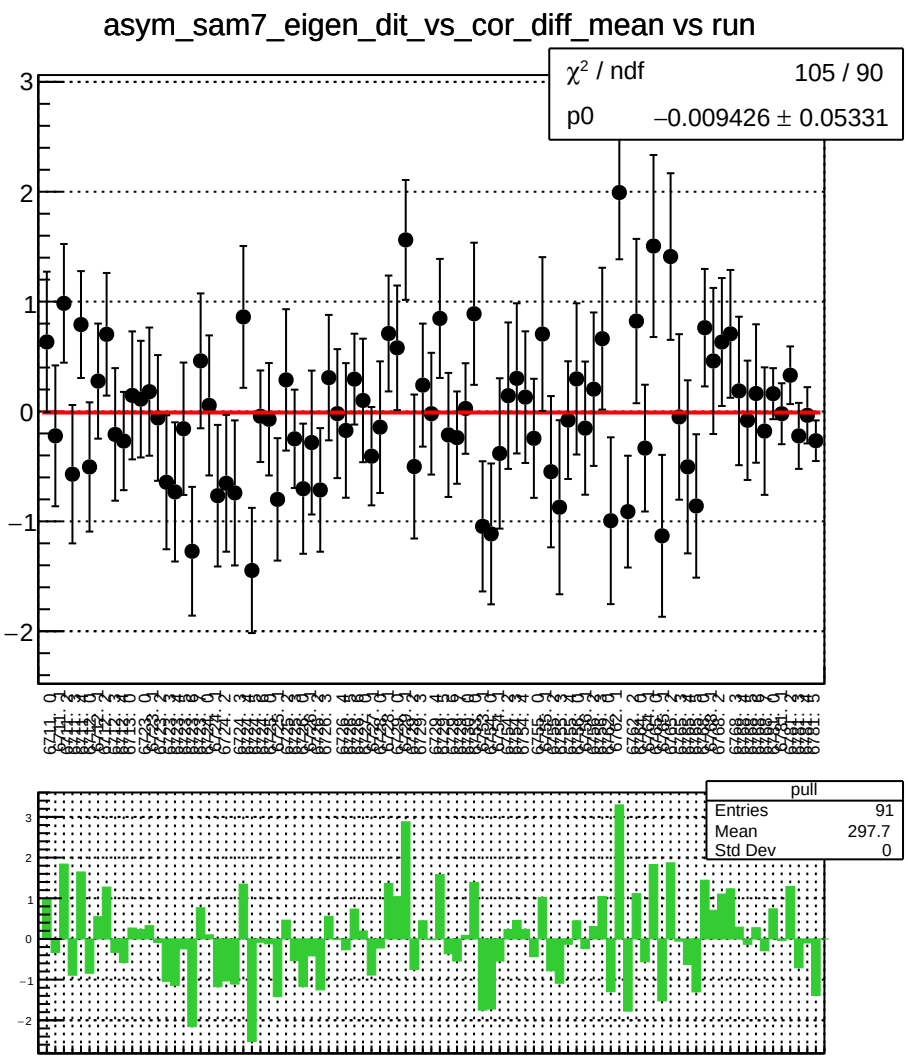

pull1D
Entries 91
Mean 0.01066
Std Dev 1.074

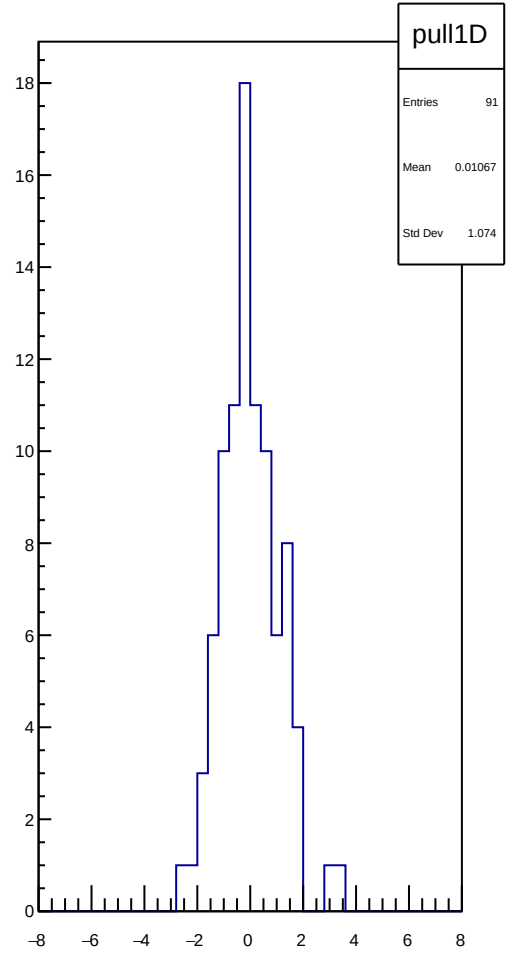

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.758e+05 / 90
p0 48.11 ± 0.0377
80
70
60
50
40
30
20

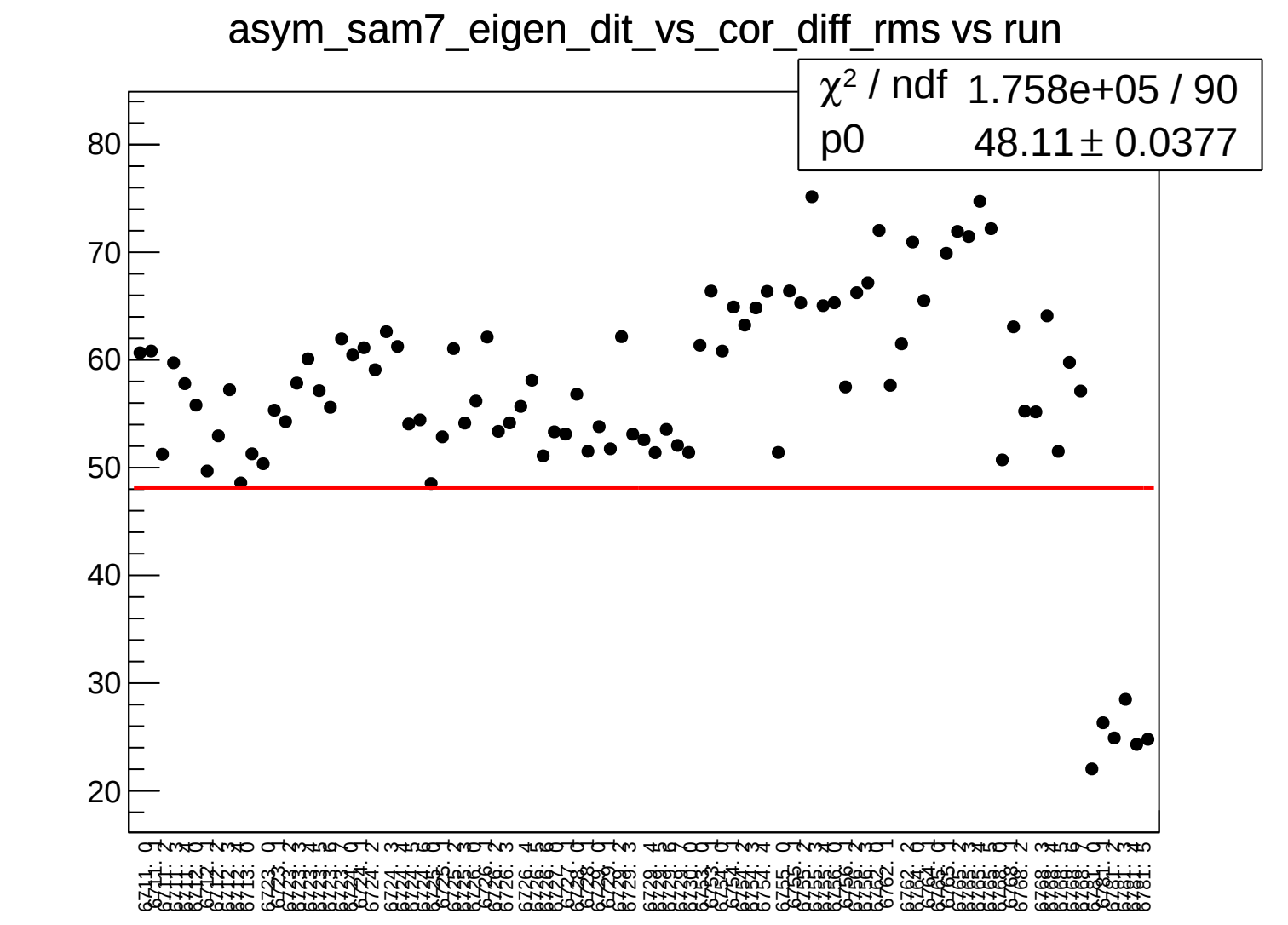

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.03 / 90
p0 9.794e−08 ± 1.97e−06
pull
Entries 91
Mean −85.24
Std Dev 0

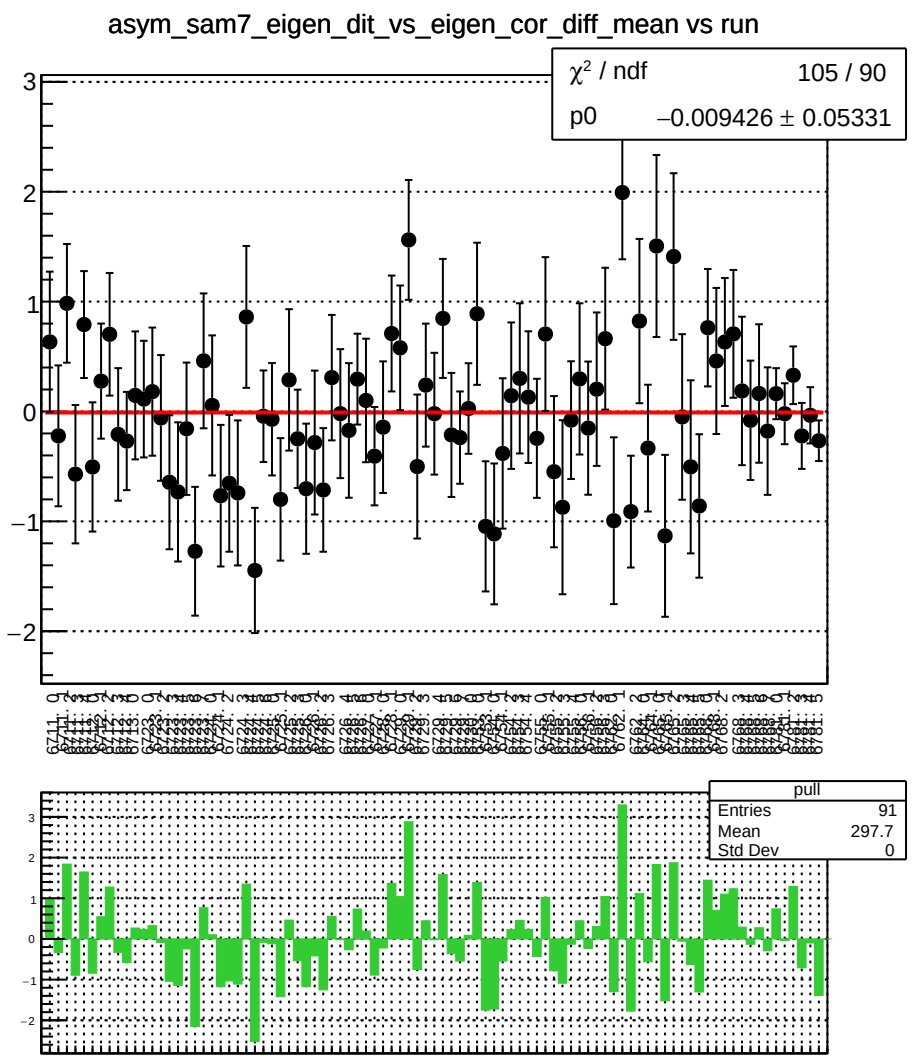

pull1D
Entries 91
Mean 0.03047
Std Dev 0.9718

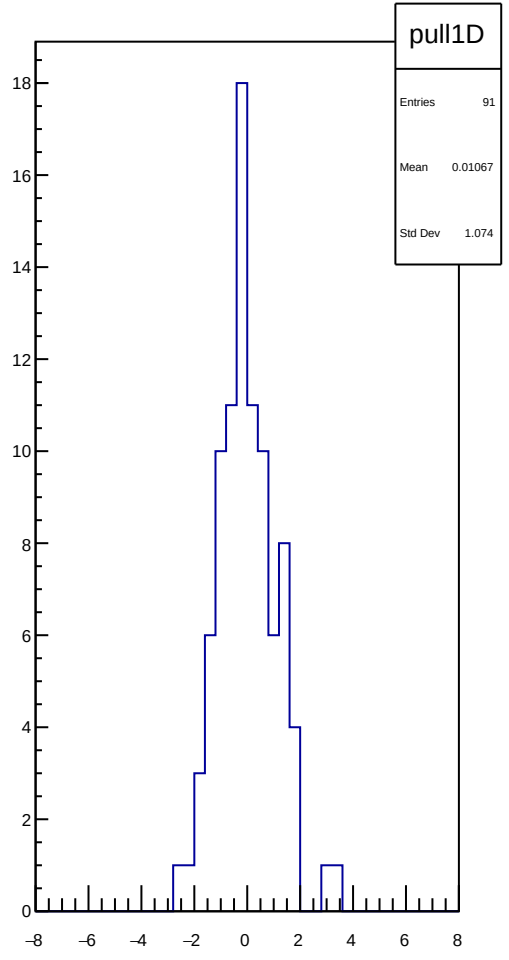

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8926 / 90
p0 0.001867 ± 1.393e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016

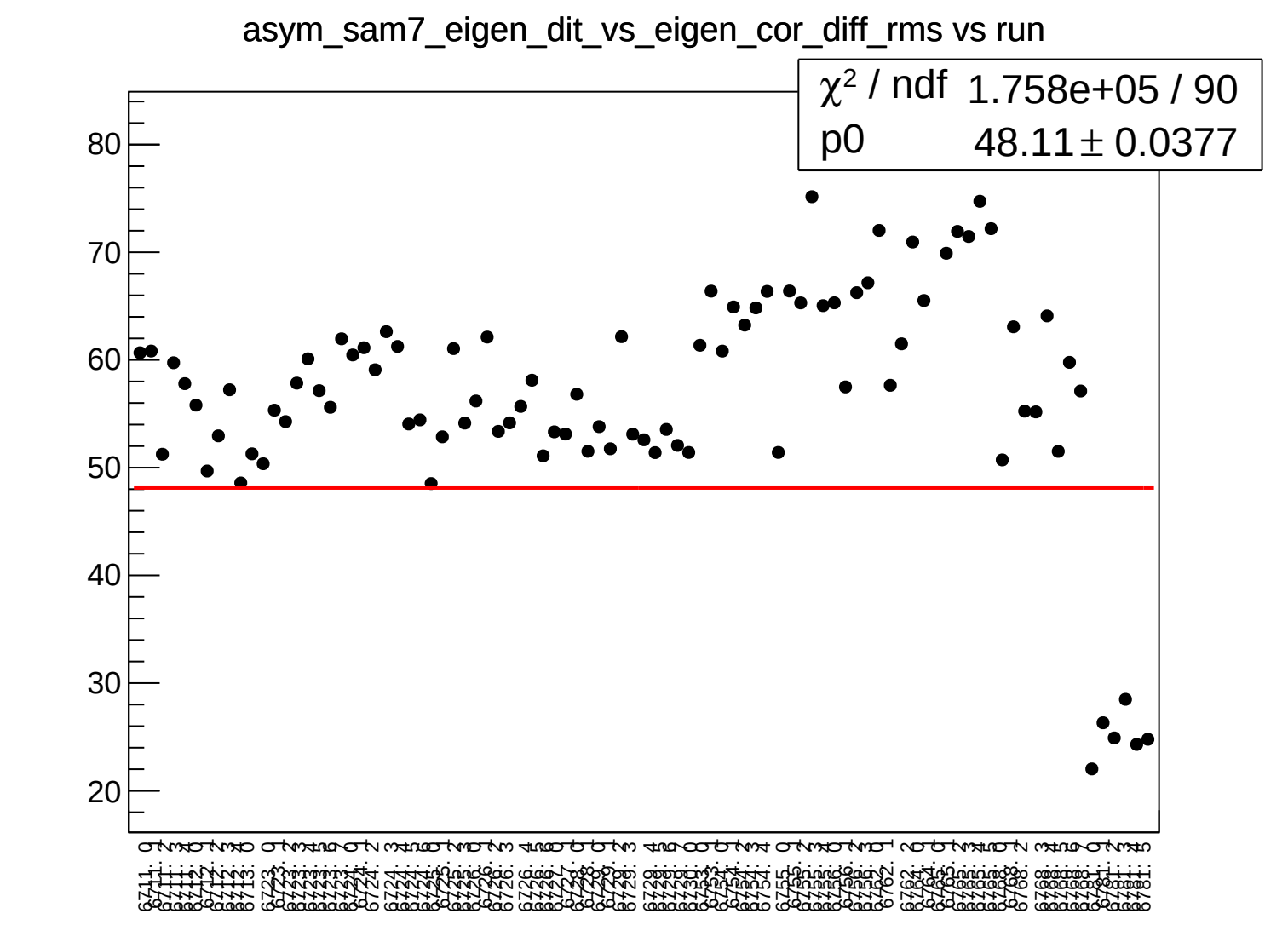

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105 / 90
p0 −0.009426 ± 0.05331
pull
Entries 91
Mean 297.7
Std Dev 0

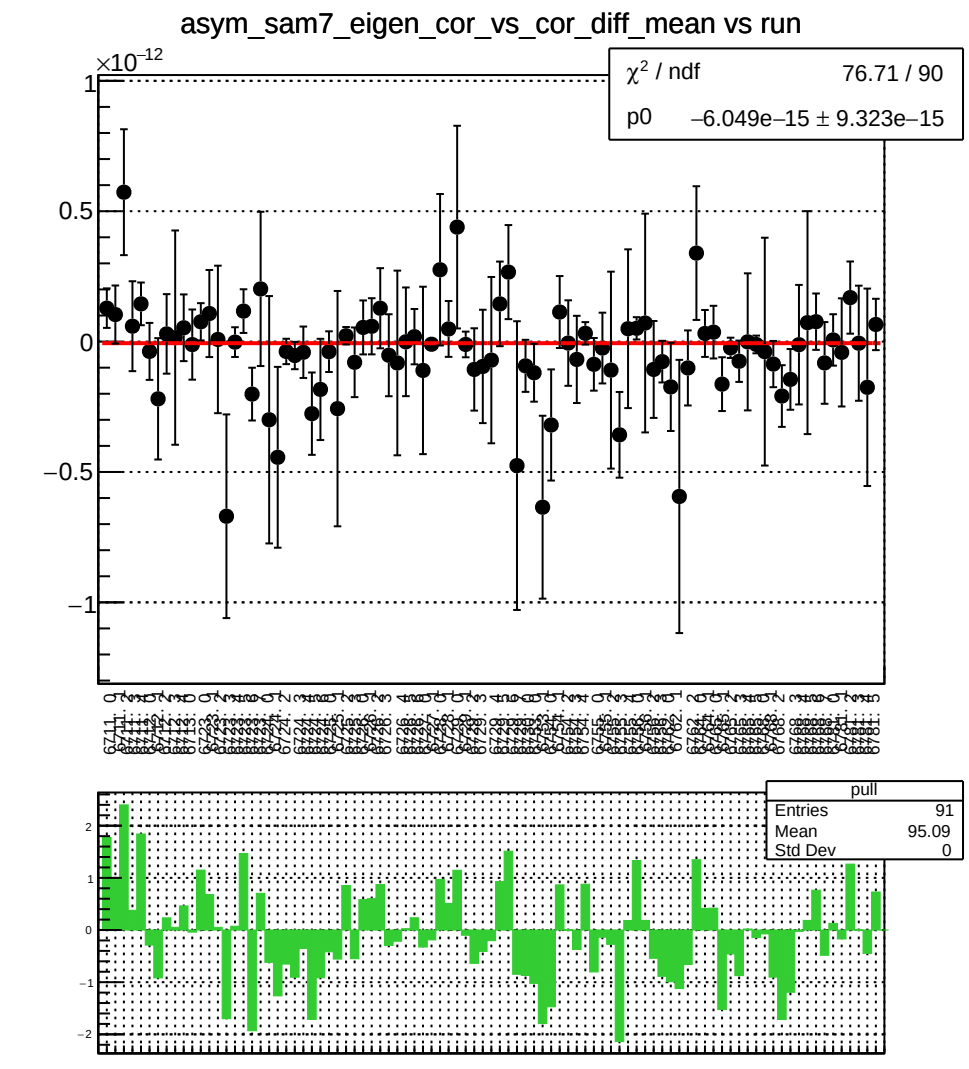

pull1D
Entries 91
Mean 0.01067
Std Dev 1.074

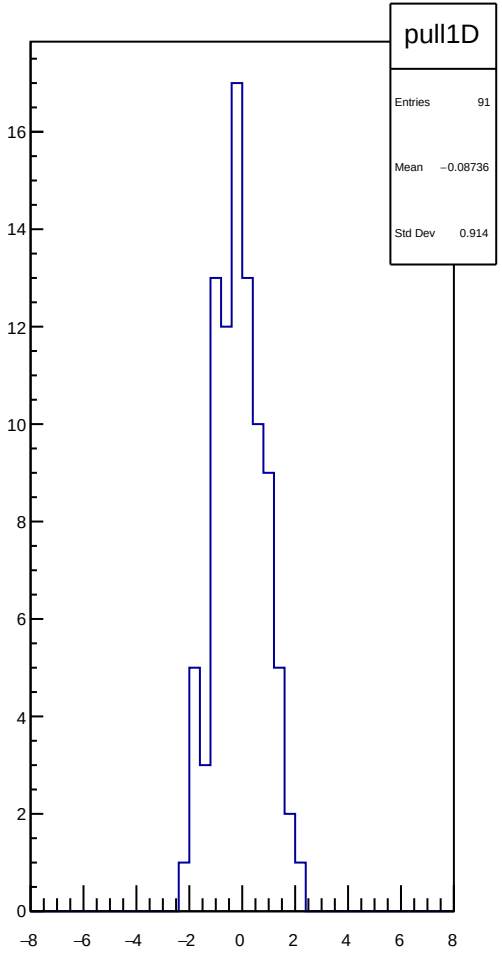

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.758e+05 / 90
p0 48.11 ± 0.0377
80
70
60
50
40
30
20

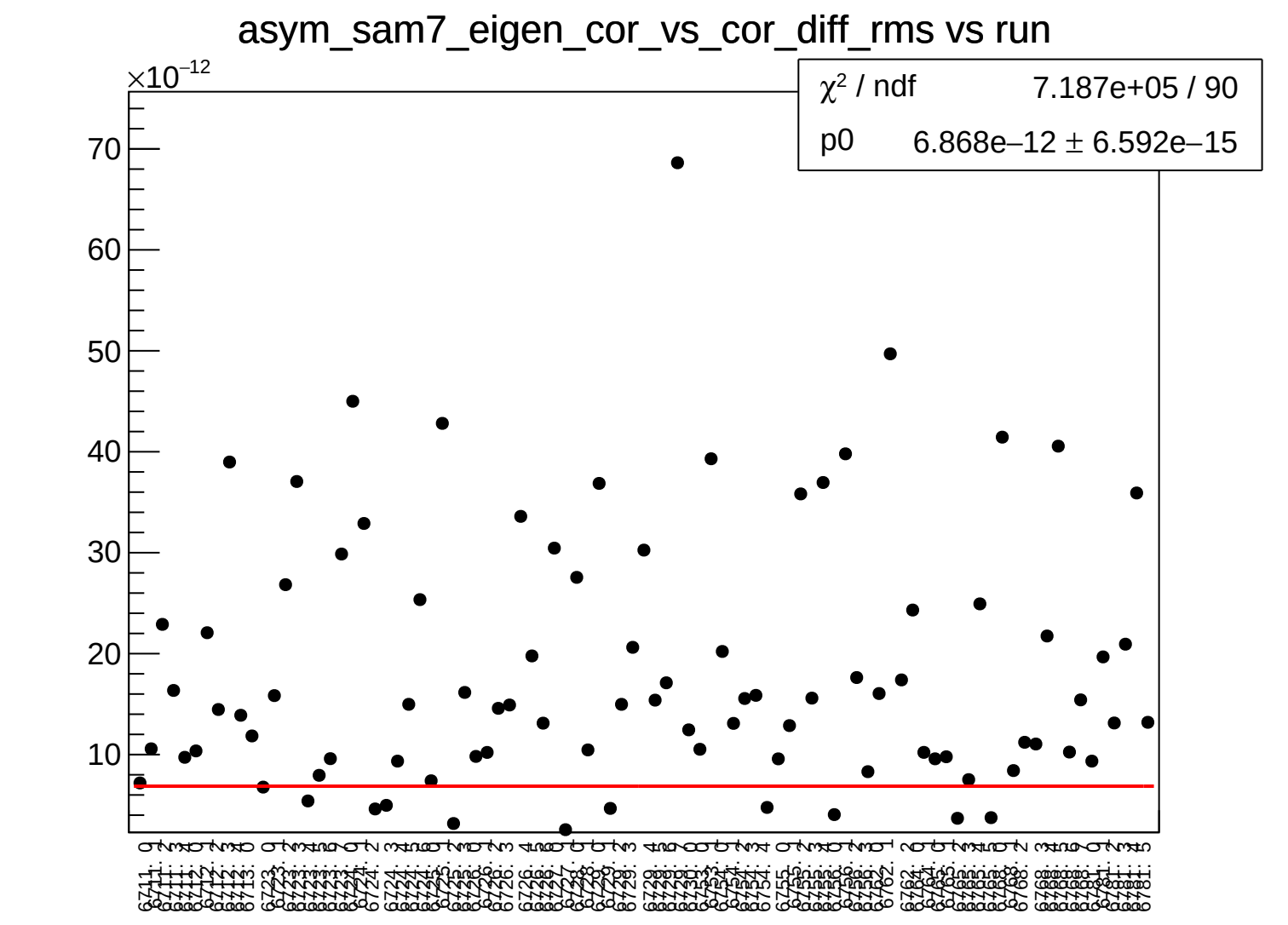

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105 / 90
p0 −0.009426 ± 0.05331
pull
Entries 91
Mean 297.7
Std Dev 0

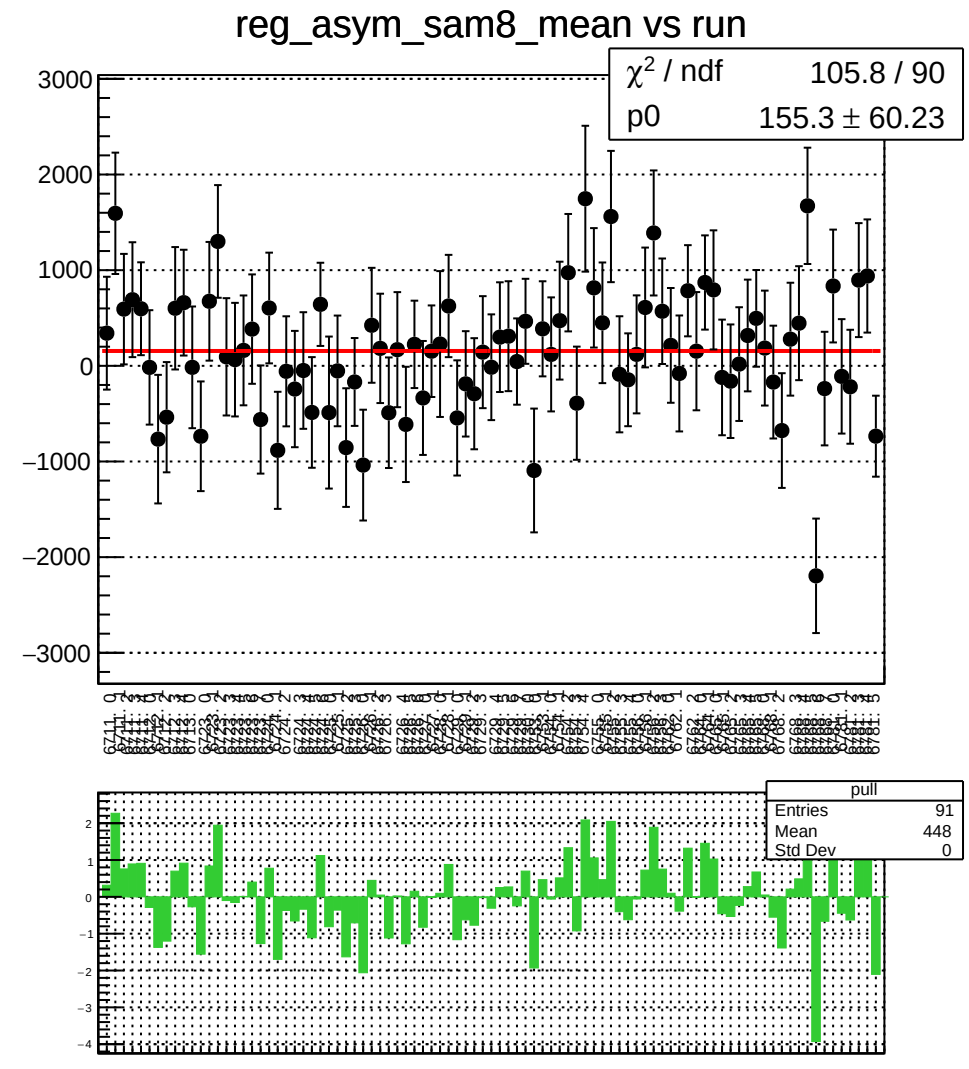

pull1D
Entries 91
Mean 0.01067
Std Dev 1.074

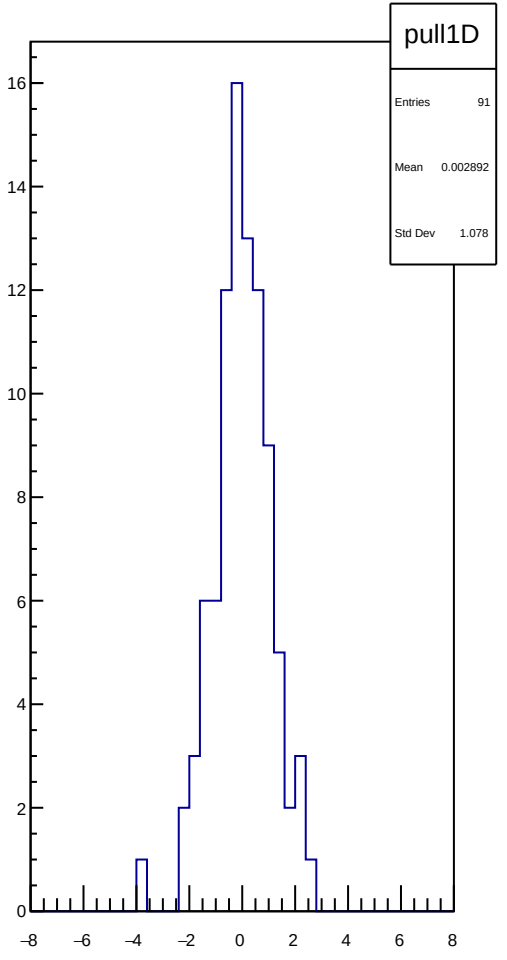

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.758e+05 / 90
p0 48.11 ± 0.0377
80
70
60
50
40
30
20

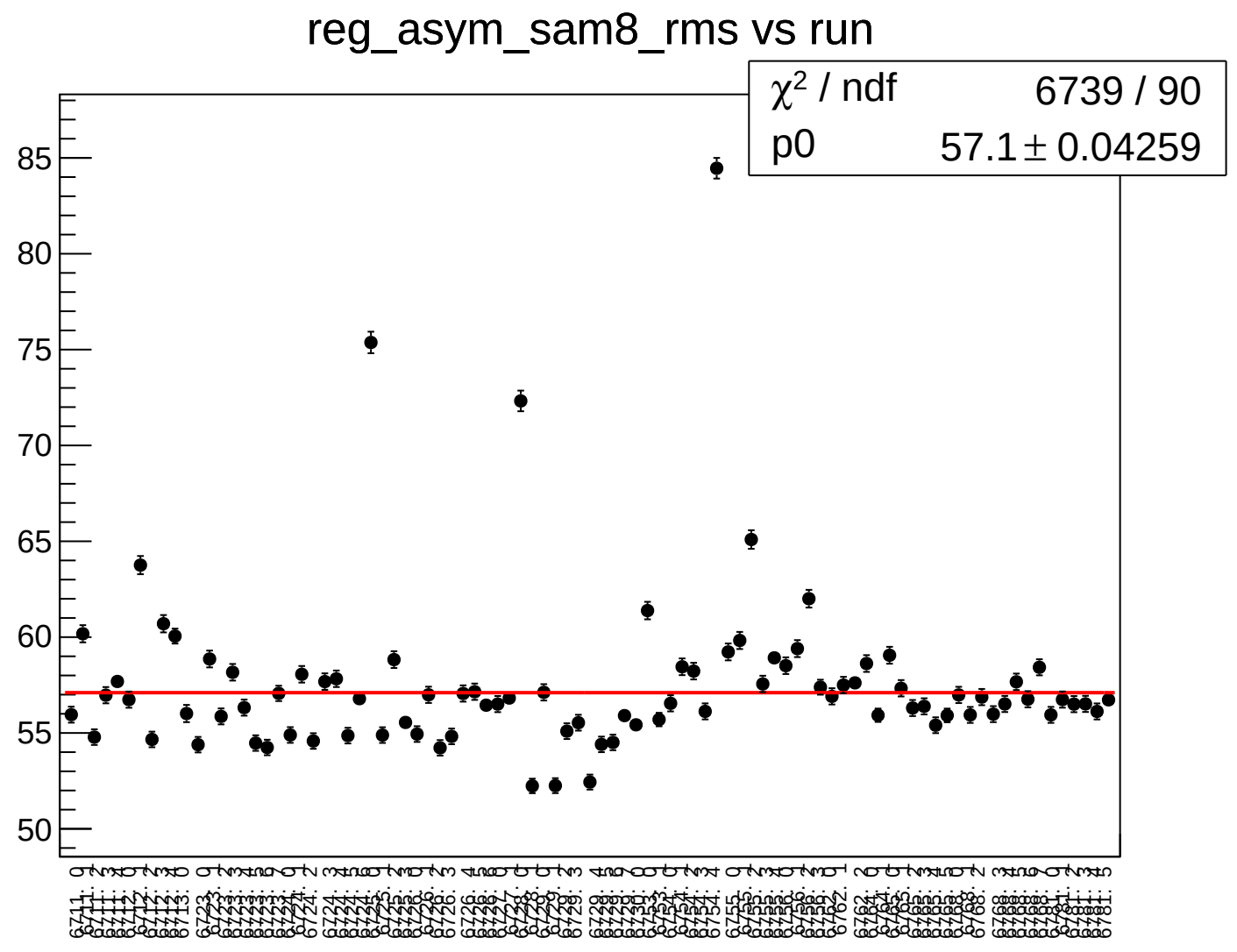

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.71 / 90
p0 −6.049e−15 ± 9.323e−15
pull
Entries 91
Mean 95.09
Std Dev 0

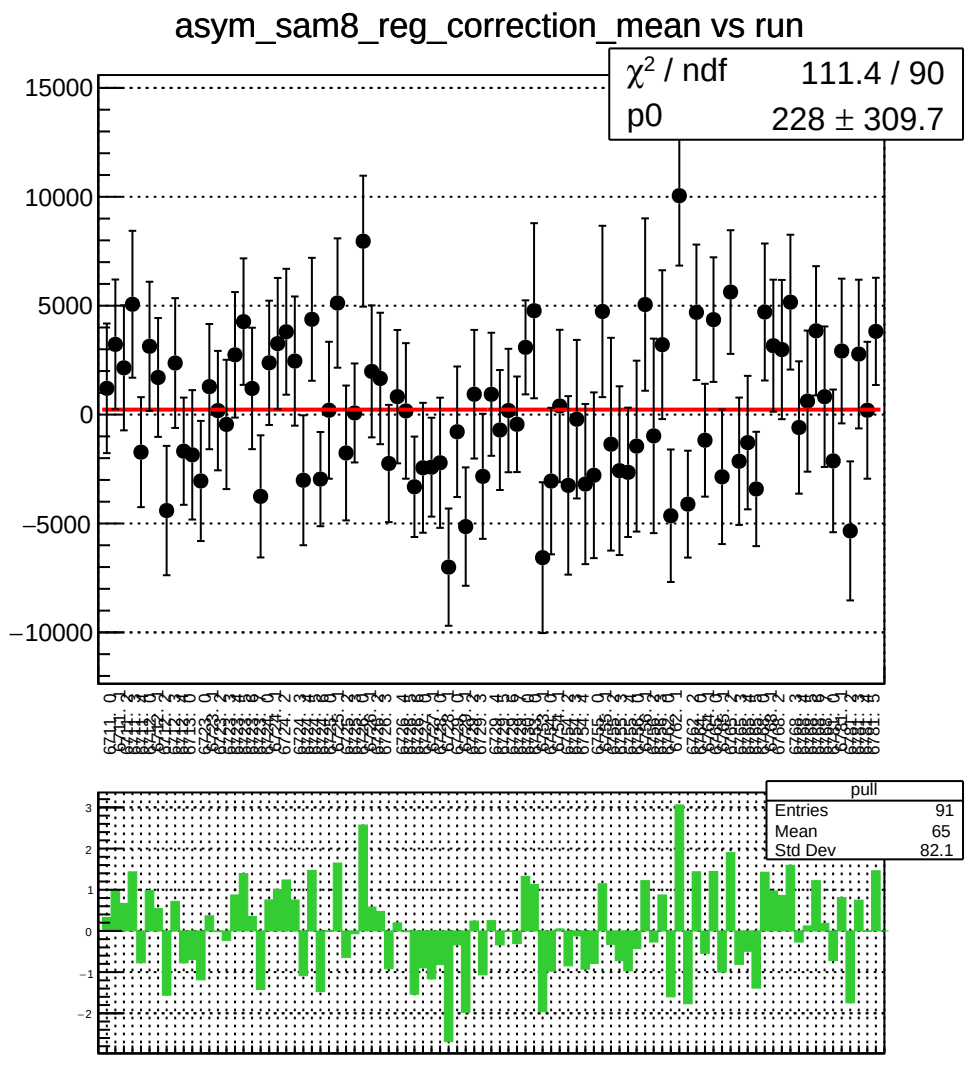

pull1D
Entries 91
Mean −0.08736
Std Dev 0.914

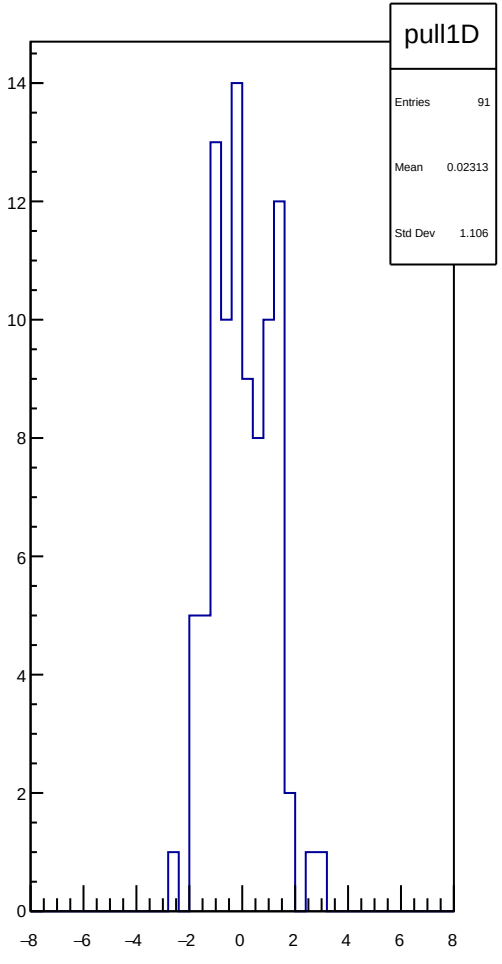

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 7.187e+05 / 90
p0 6.868e−12 ± 6.592e−15

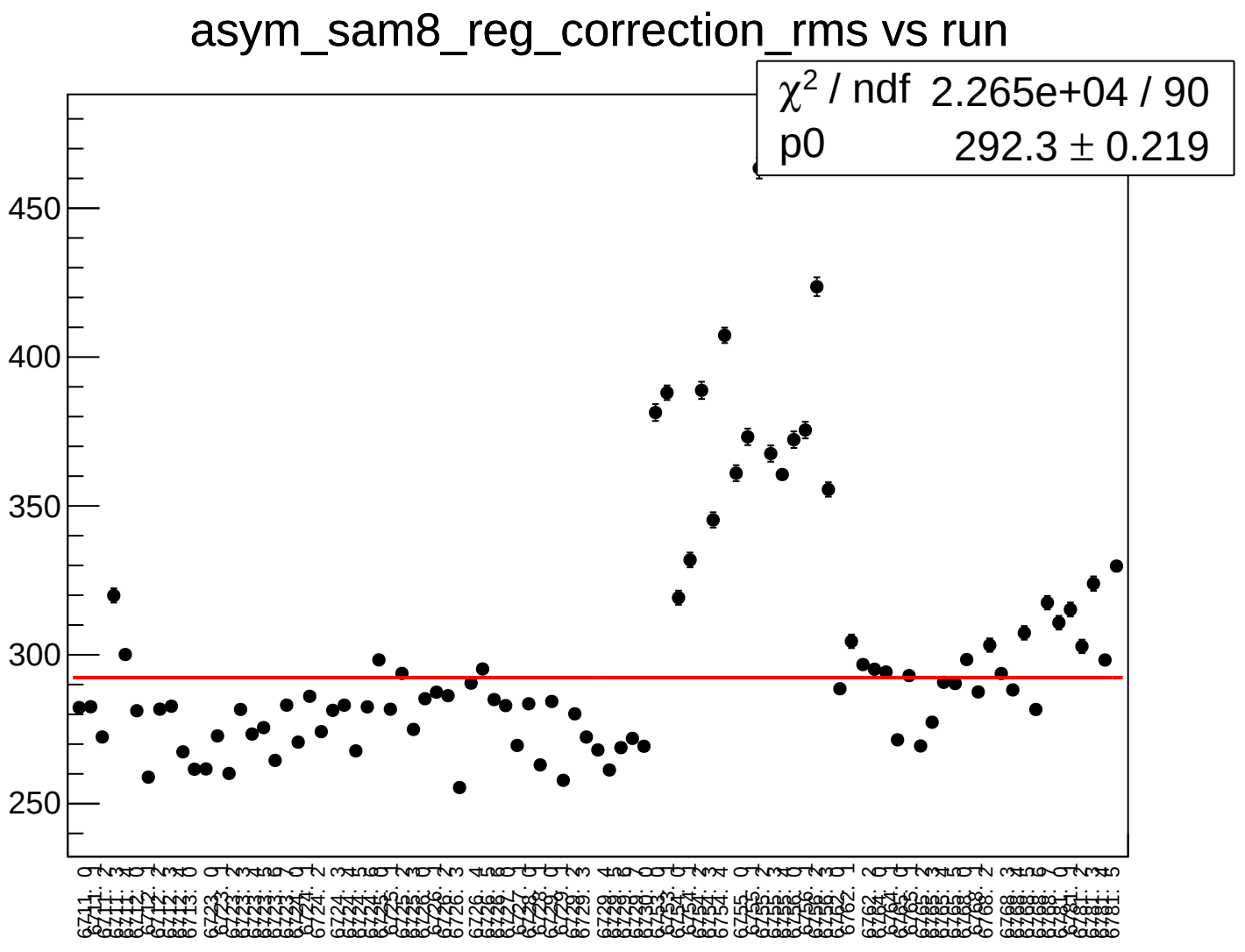

reg_asym_sam8_mean vs run
χ² / ndf 105.8 / 90
p0 155.3 ± 60.23
pull
Entries 91
Mean 448
Std Dev 0

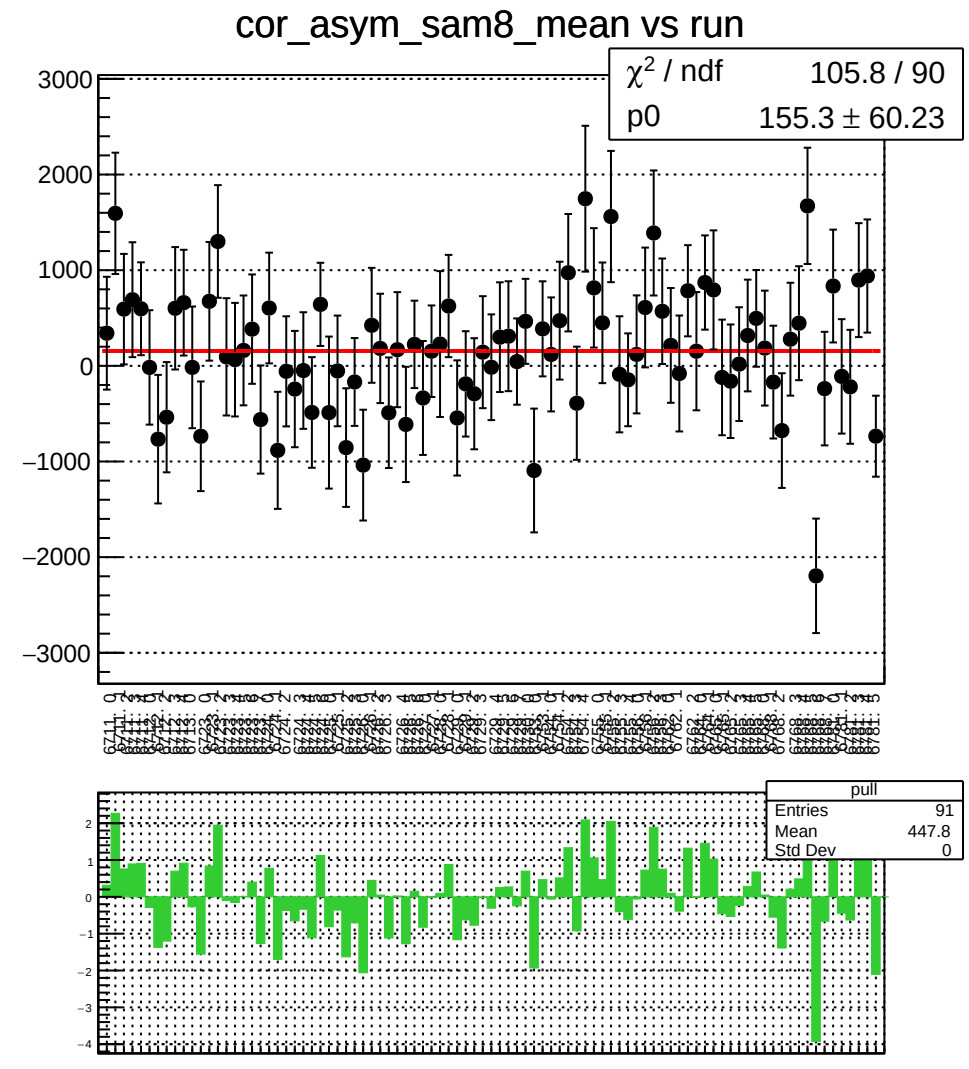

pull1D
Entries 91
Mean 0.002892
Std Dev 1.078

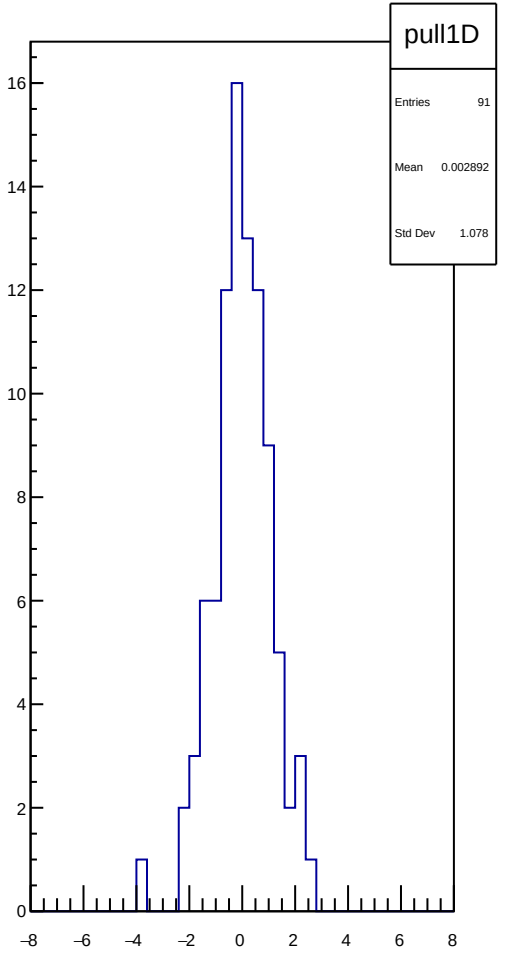

reg_asym_sam8_rms vs run
χ^2 / ndf 6739 / 90
p0 57.1 ± 0.04259
85
80
75
70
65
60
55
50

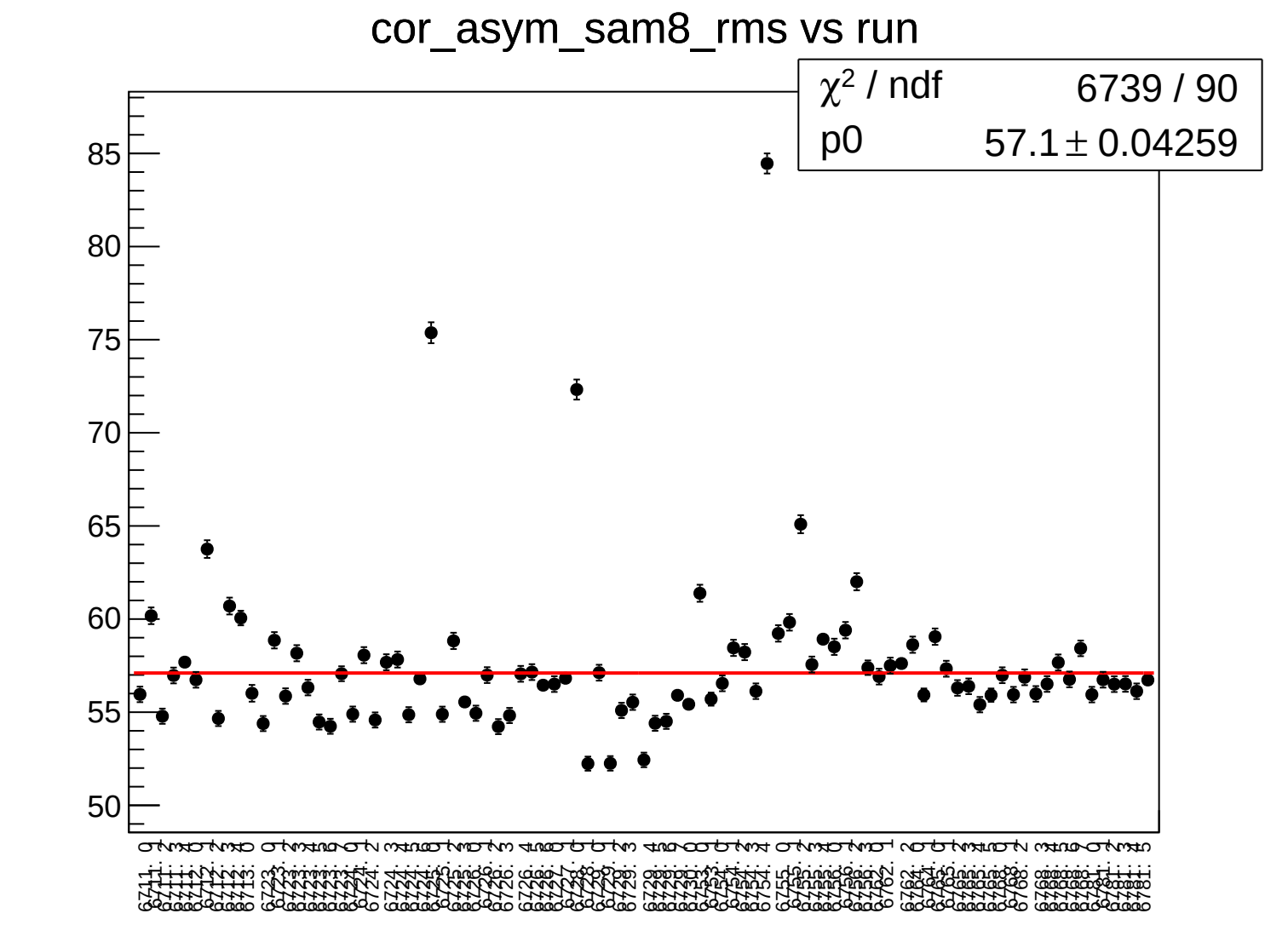

asym_sam8_reg_correction_mean vs run
χ² / ndf 111.4 / 90
p0 228 ± 309.7
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 65
Std Dev 82.1
3
2
1
0
−1
−2

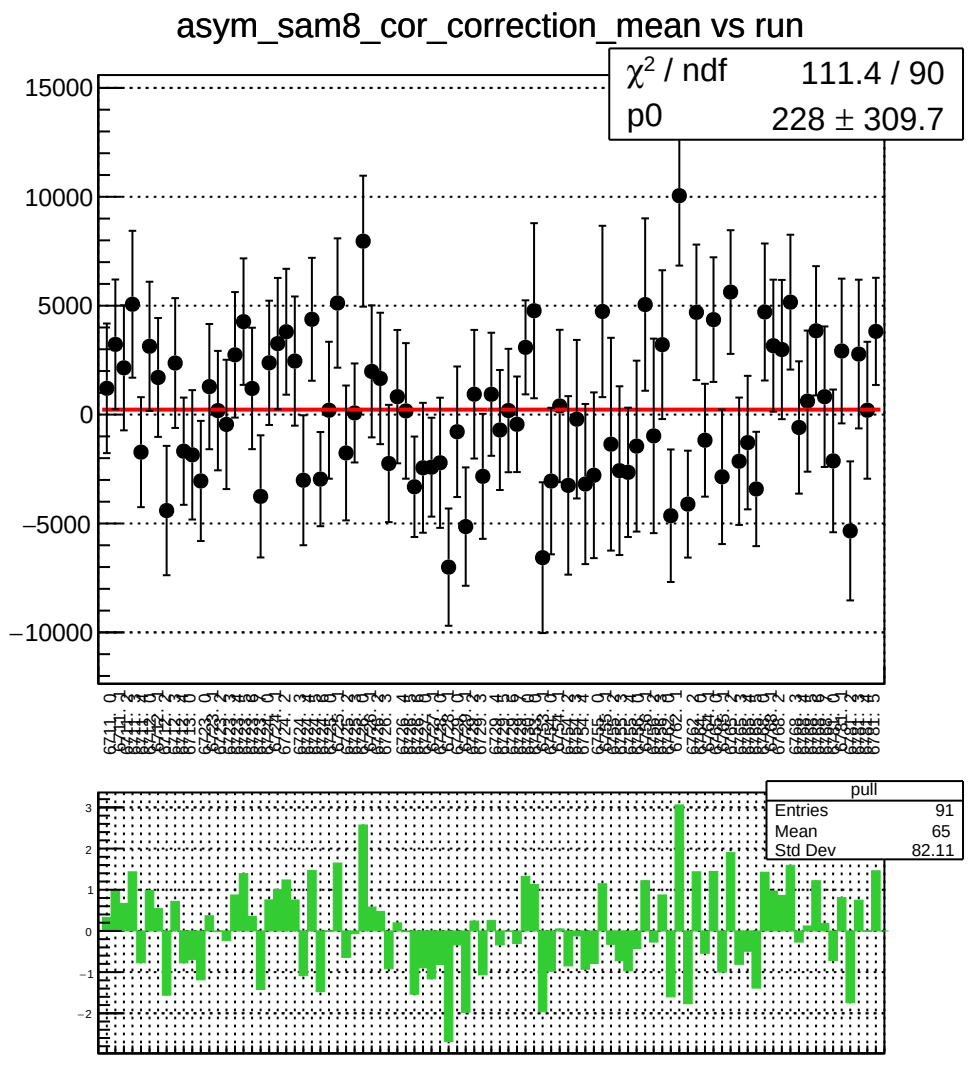

pull1D
Entries 91
Mean 0.02313
Std Dev 1.106
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

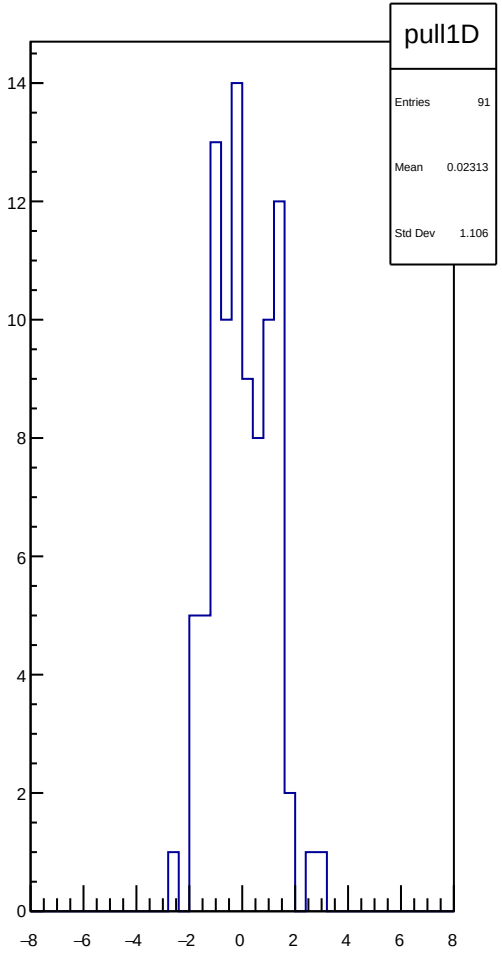

asym_sam8_reg_correction_rms vs run
χ^2 / ndf 2.265e+04 / 90
p0 292.3 ± 0.219
450
400
350
300
250

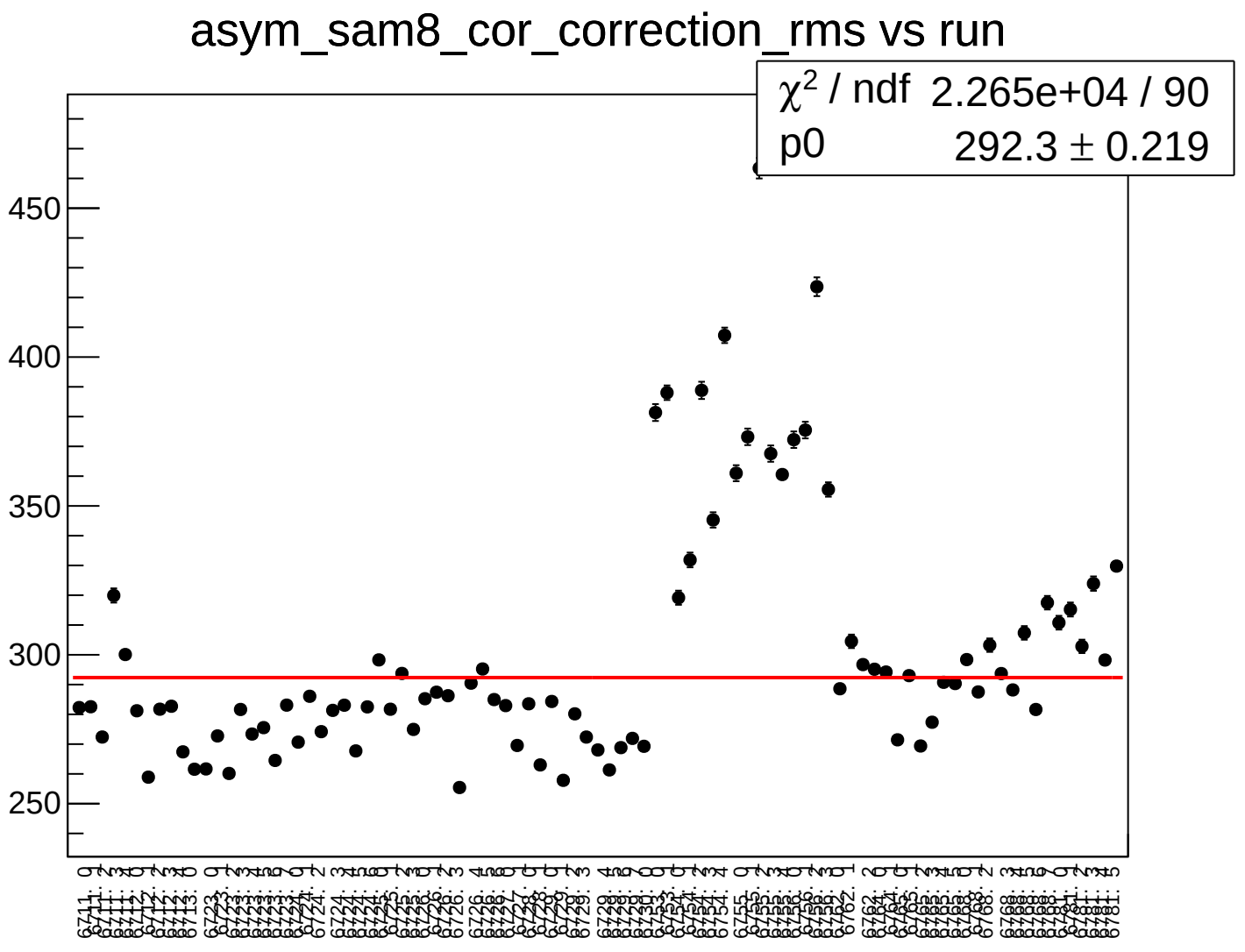

cor_asym_sam8_mean vs run
χ² / ndf 105.8 / 90
p0 155.3 ± 60.23
pull
Entries 91
Mean 447.8
Std Dev 0

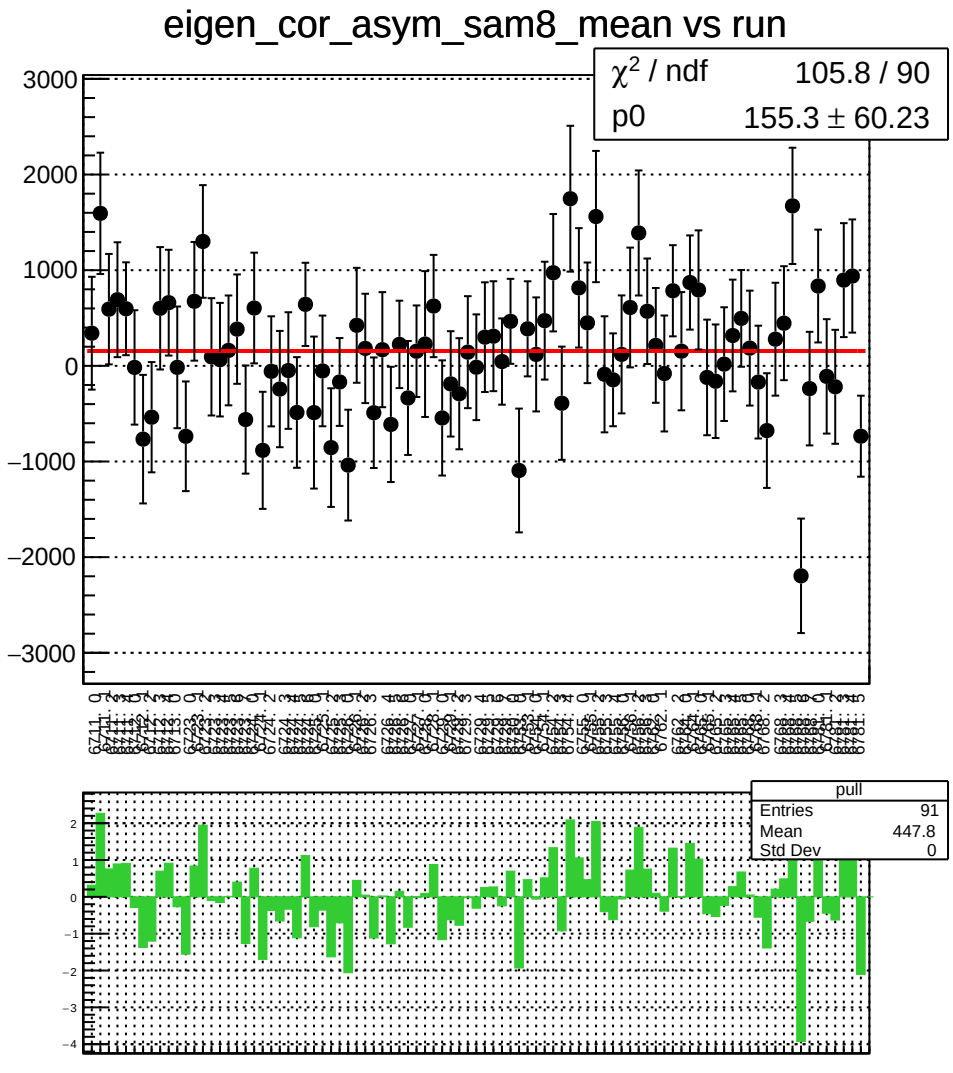

pull1D
Entries 91
Mean 0.002892
Std Dev 1.078

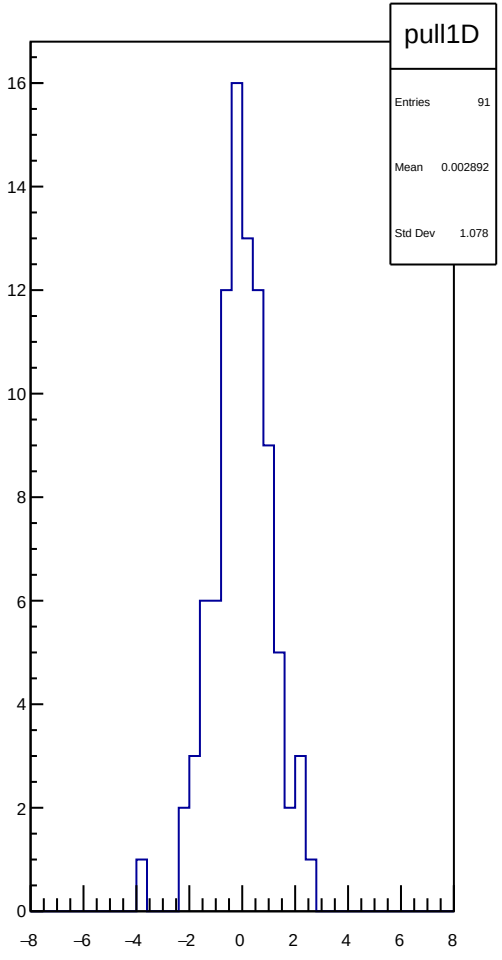

cor_asym_sam8_rms vs run
χ^2 / ndf 6739 / 90
p0 57.1 ± 0.04259
85
80
75
70
65
60
55
50

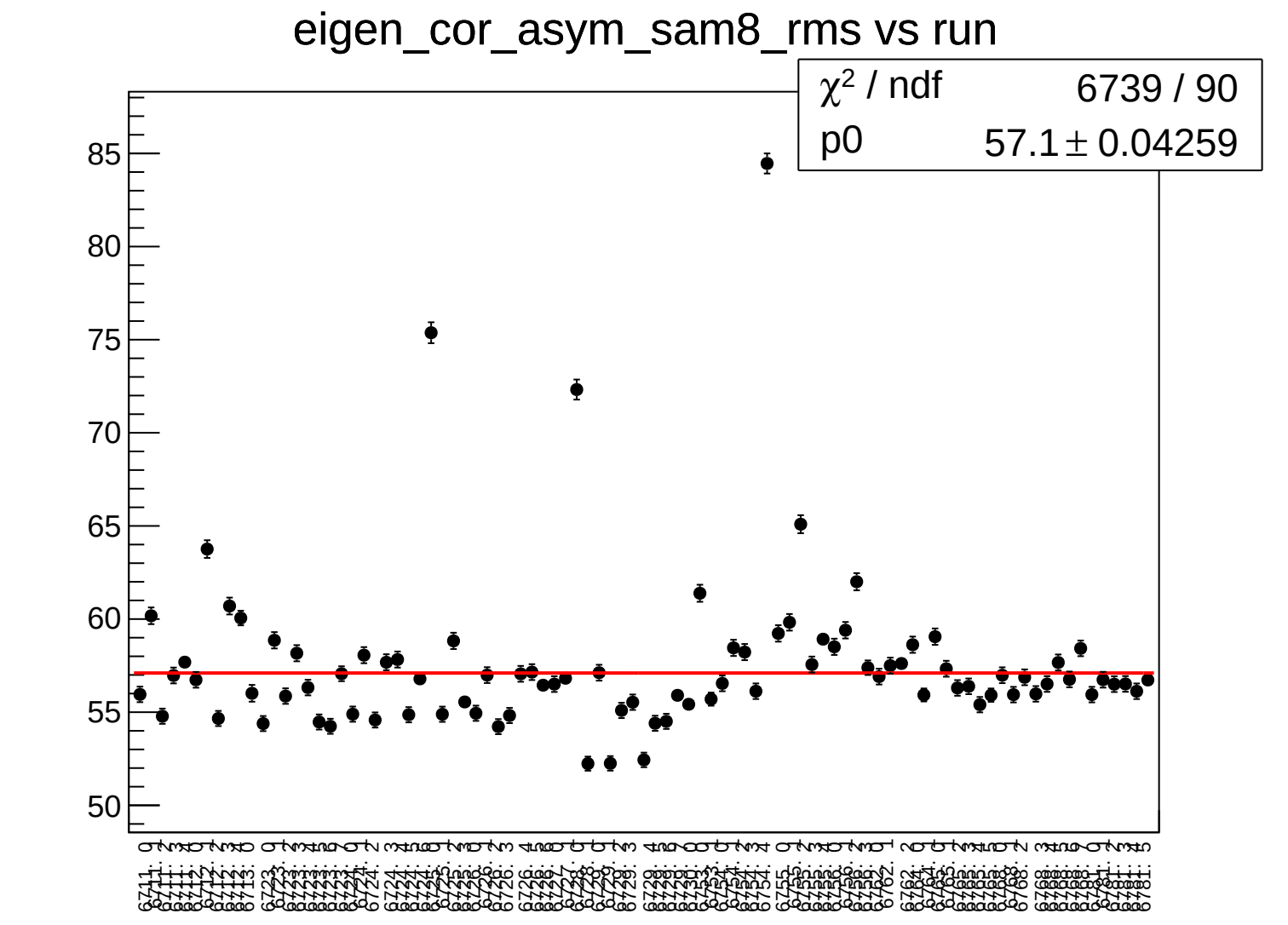

asym_sam8_cor_correction_mean vs run
χ² / ndf 111.4 / 90
p0 228 ± 309.7
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 65
Std Dev 82.11
3
2
1
0
−1
−2

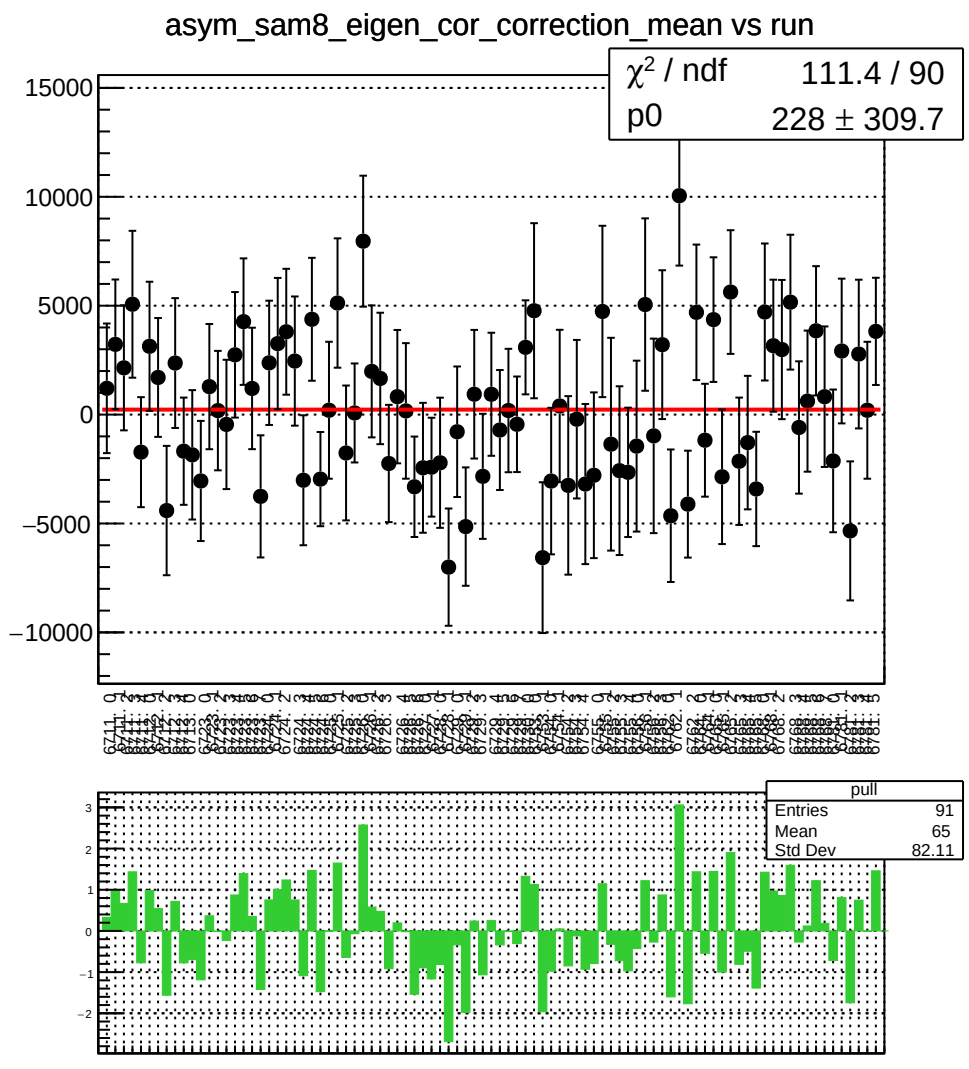

pull1D
Entries 91
Mean 0.02313
Std Dev 1.106
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

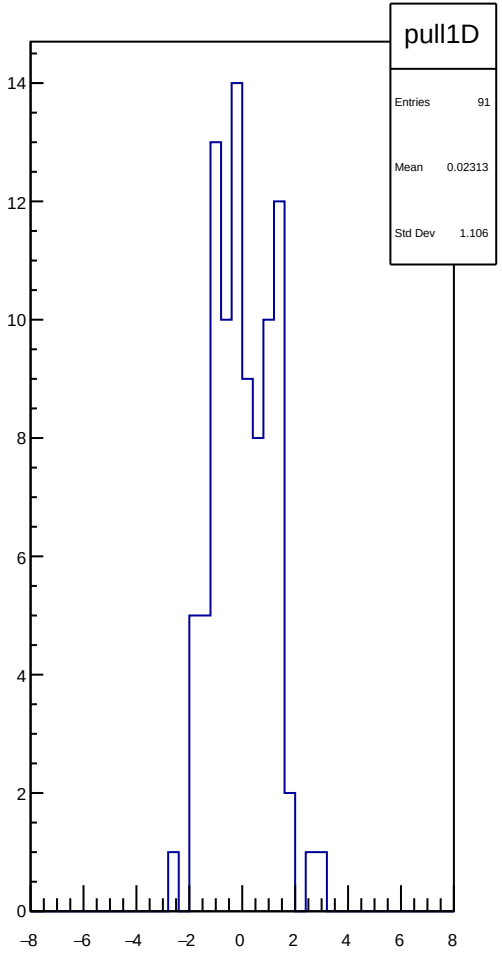

asym_sam8_cor_correction_rms vs run
χ² / ndf 2.265e+04 / 90
p0 292.3 ± 0.219
450
400
350
300
250


eigen_cor_asym_sam8_mean vs run
χ² / ndf 105.8 / 90
p0 155.3 ± 60.23
pull
Entries 91
Mean 447.8
Std Dev 0


pull1D
Entries 91
Mean 0.002892
Std Dev 1.078


eigen_cor_asym_sam8_rms vs run
χ^2 / ndf 6739 / 90
p0 57.1 ± 0.04259
85
80
75
70
65
60
55
50


asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 111.4 / 90
p0 228 ± 309.7
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 65
Std Dev 82.11
3
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.02313
Std Dev 1.106
14
12
10
8
6
4
2
0
−8
−6
−4
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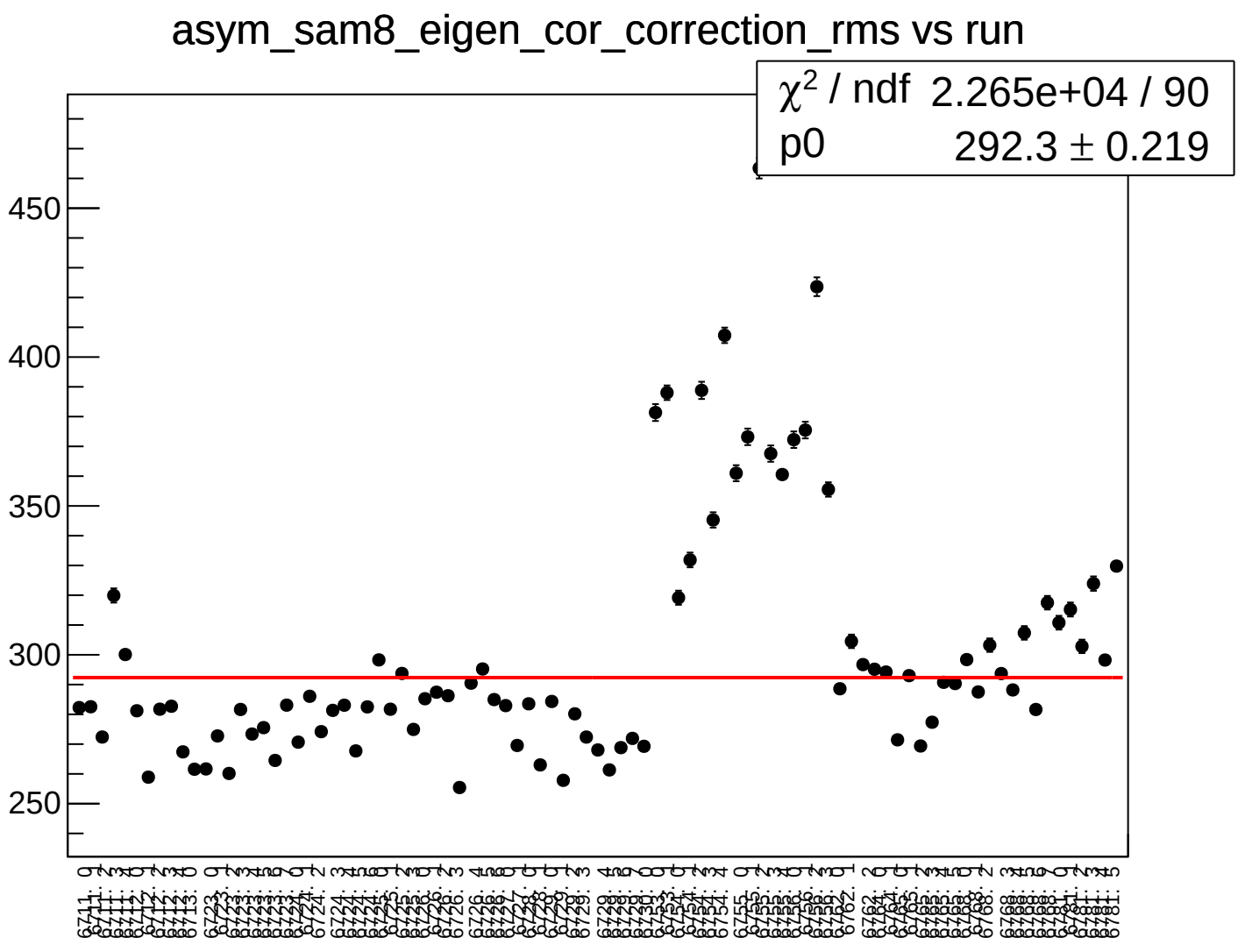
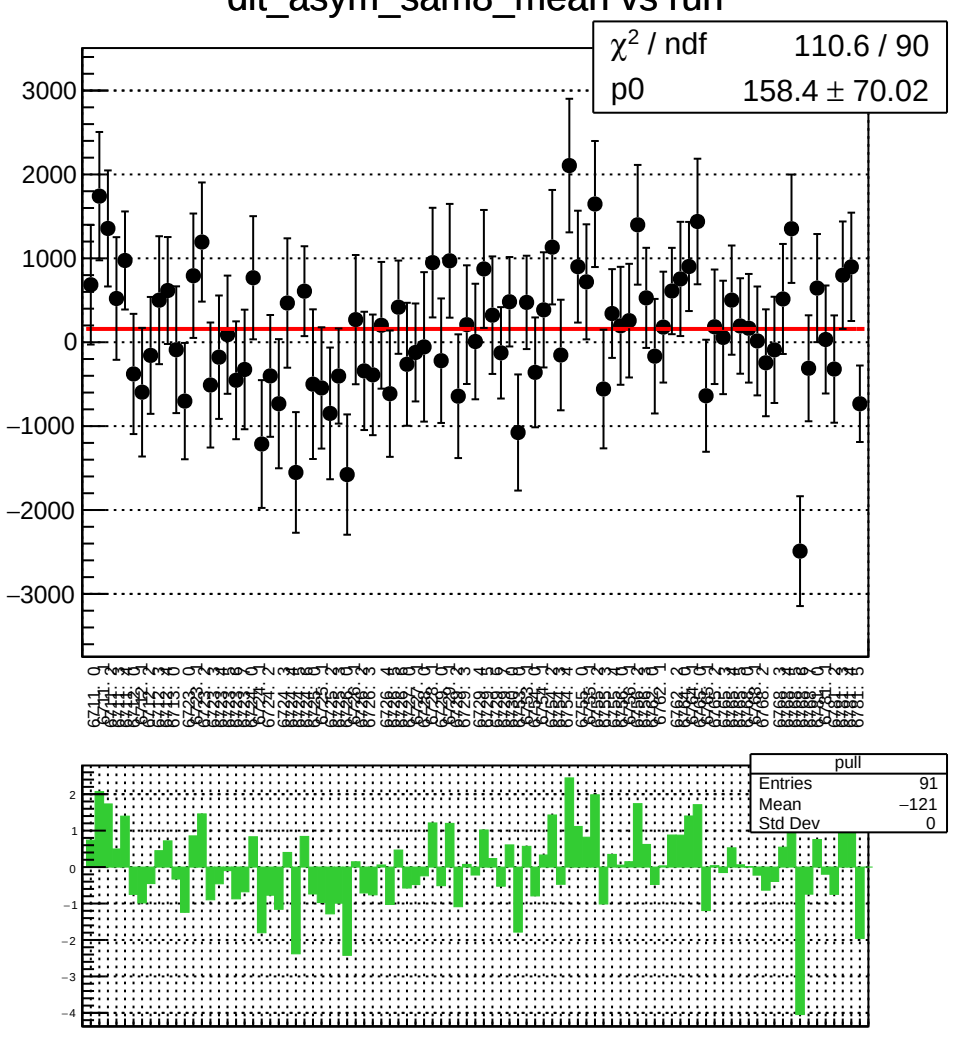
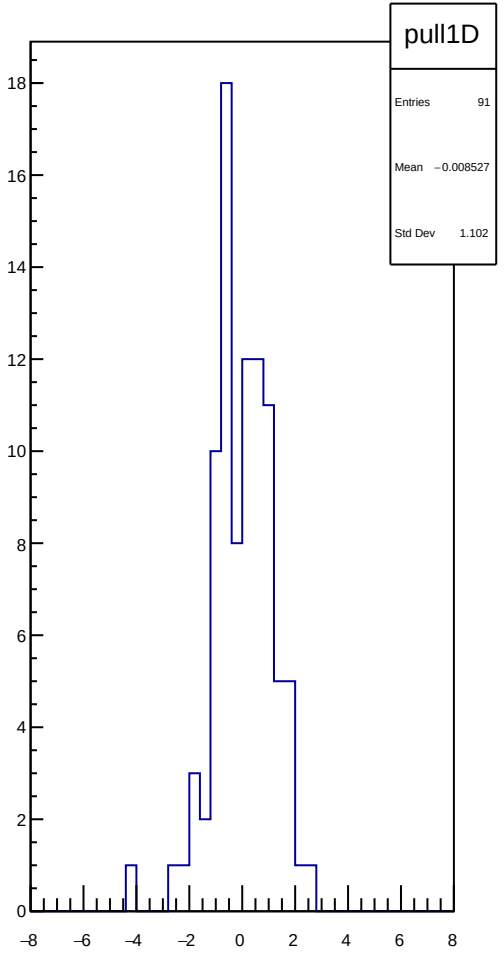
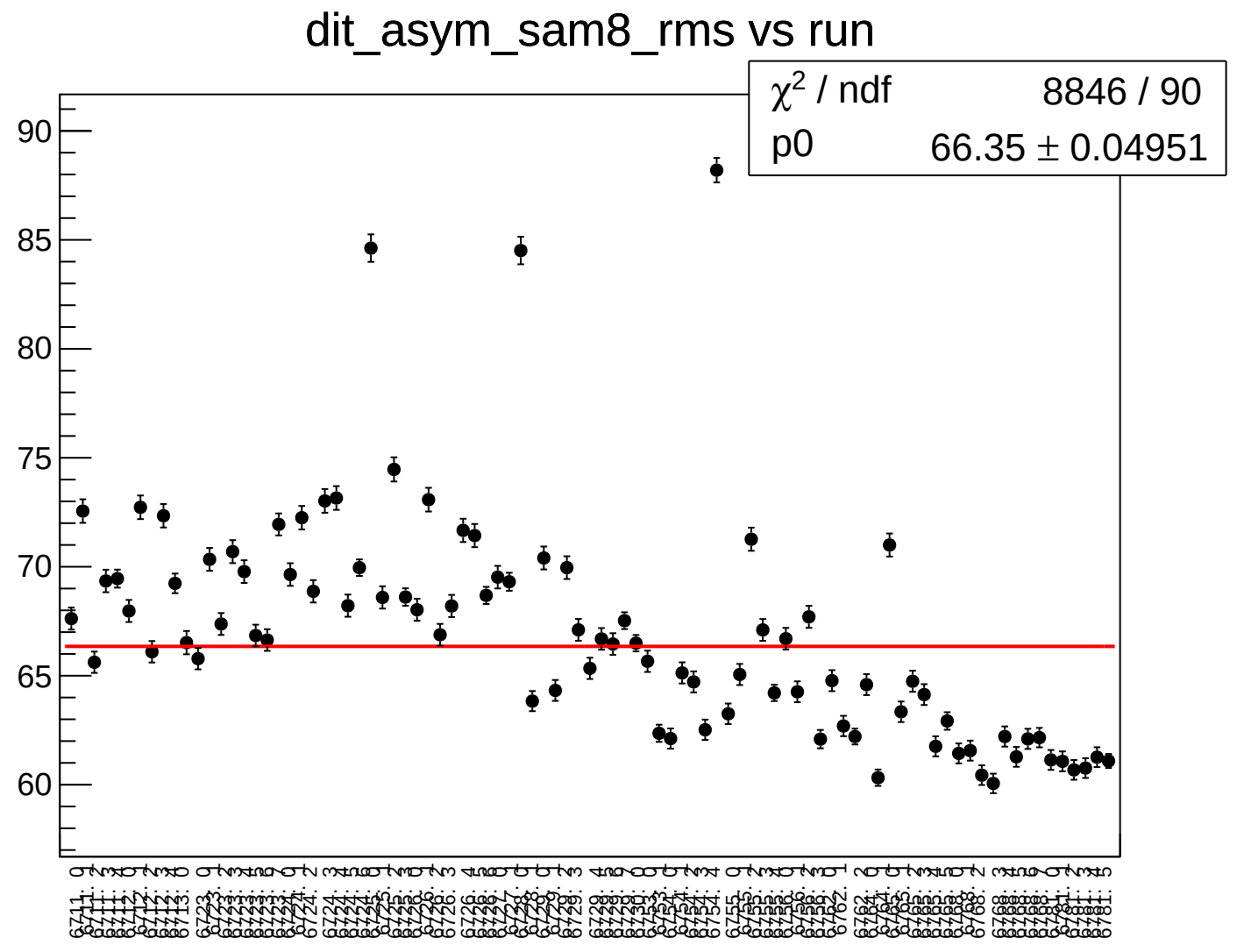
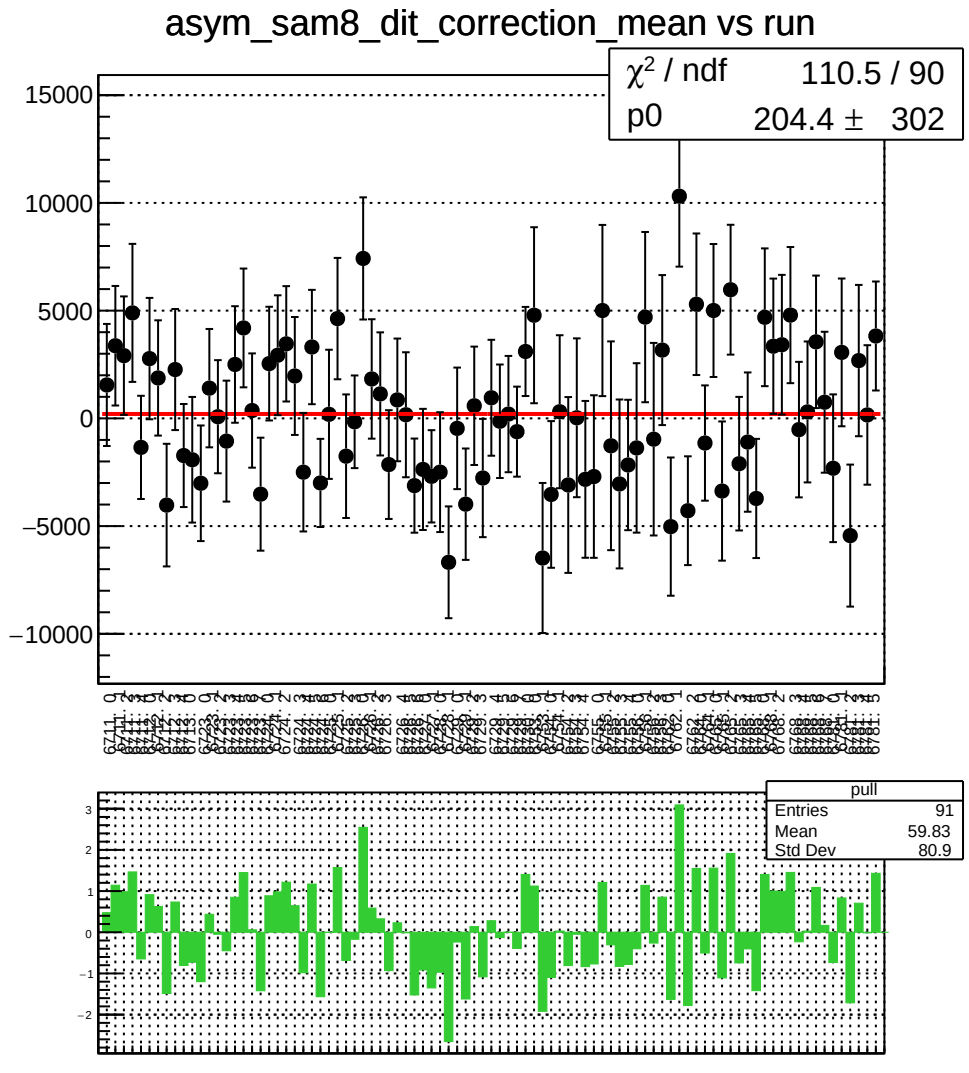
2
4
6
8

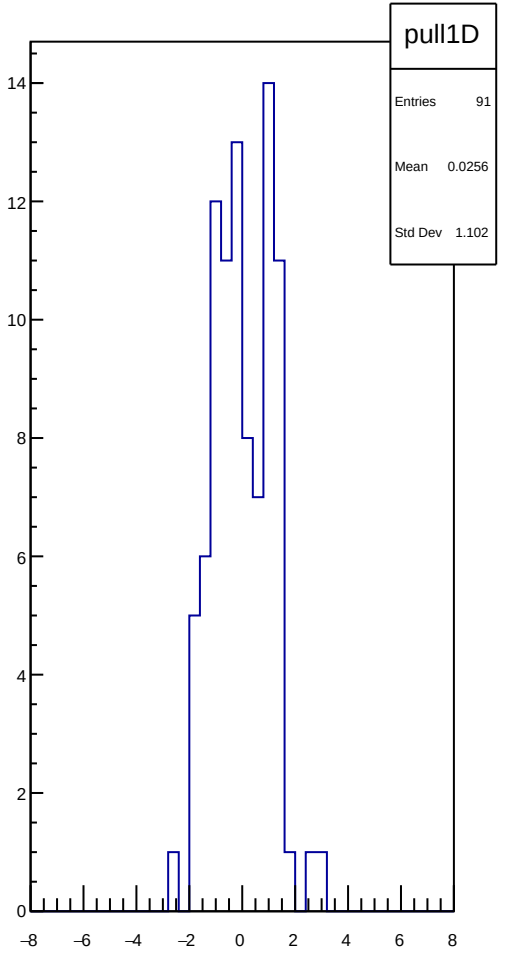

asym_sam8_eigen_cor_correction_rms vs run
χ^2 / ndf 2.265e+04 / 90
p0 292.3 ± 0.219
450
400
350
300
250

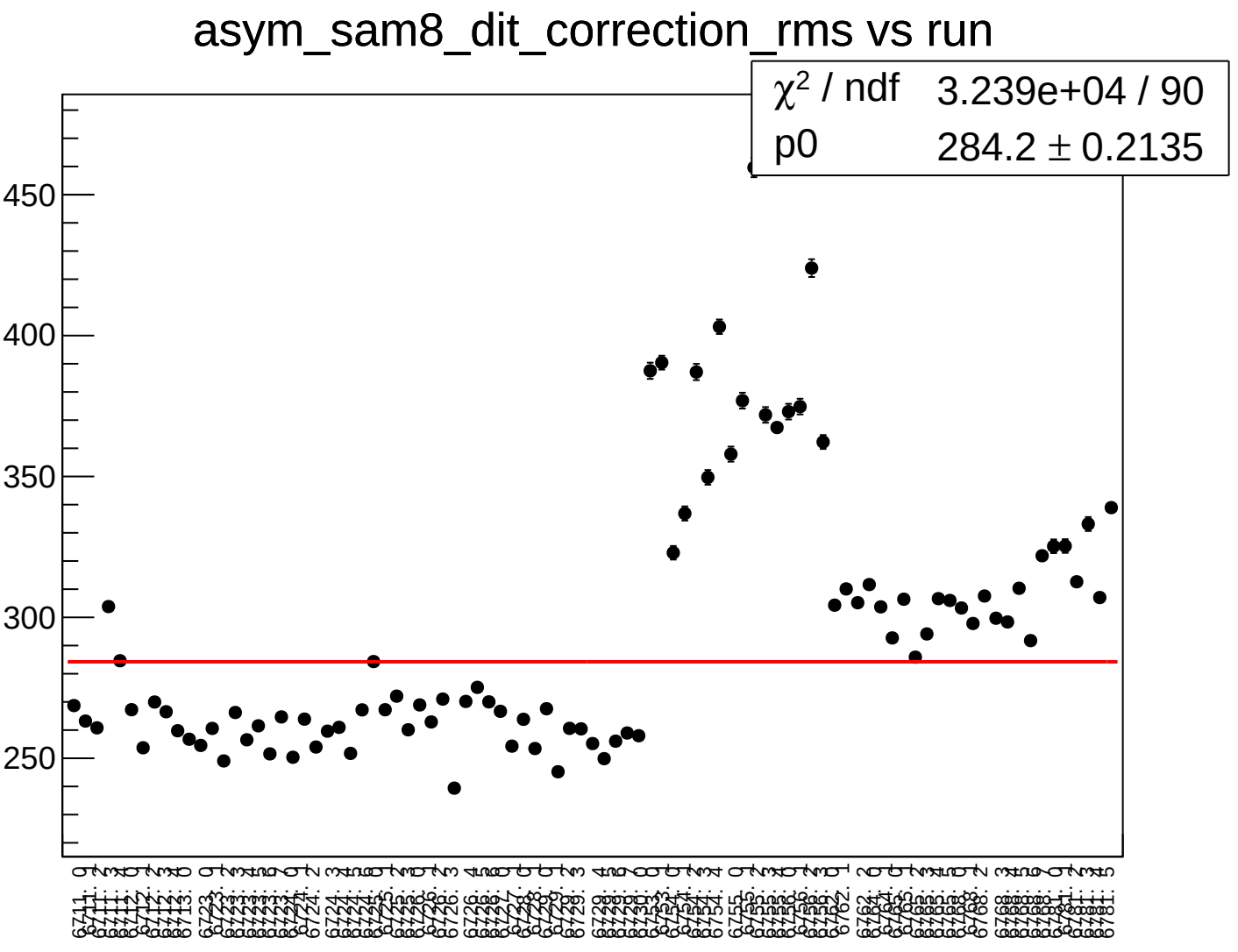

dit_asym_sam8_mean vs run
χ^2 / ndf 110.6 / 90
p0 158.4 ± 70.02
pull
Entries 91
Mean −121
Std Dev 0

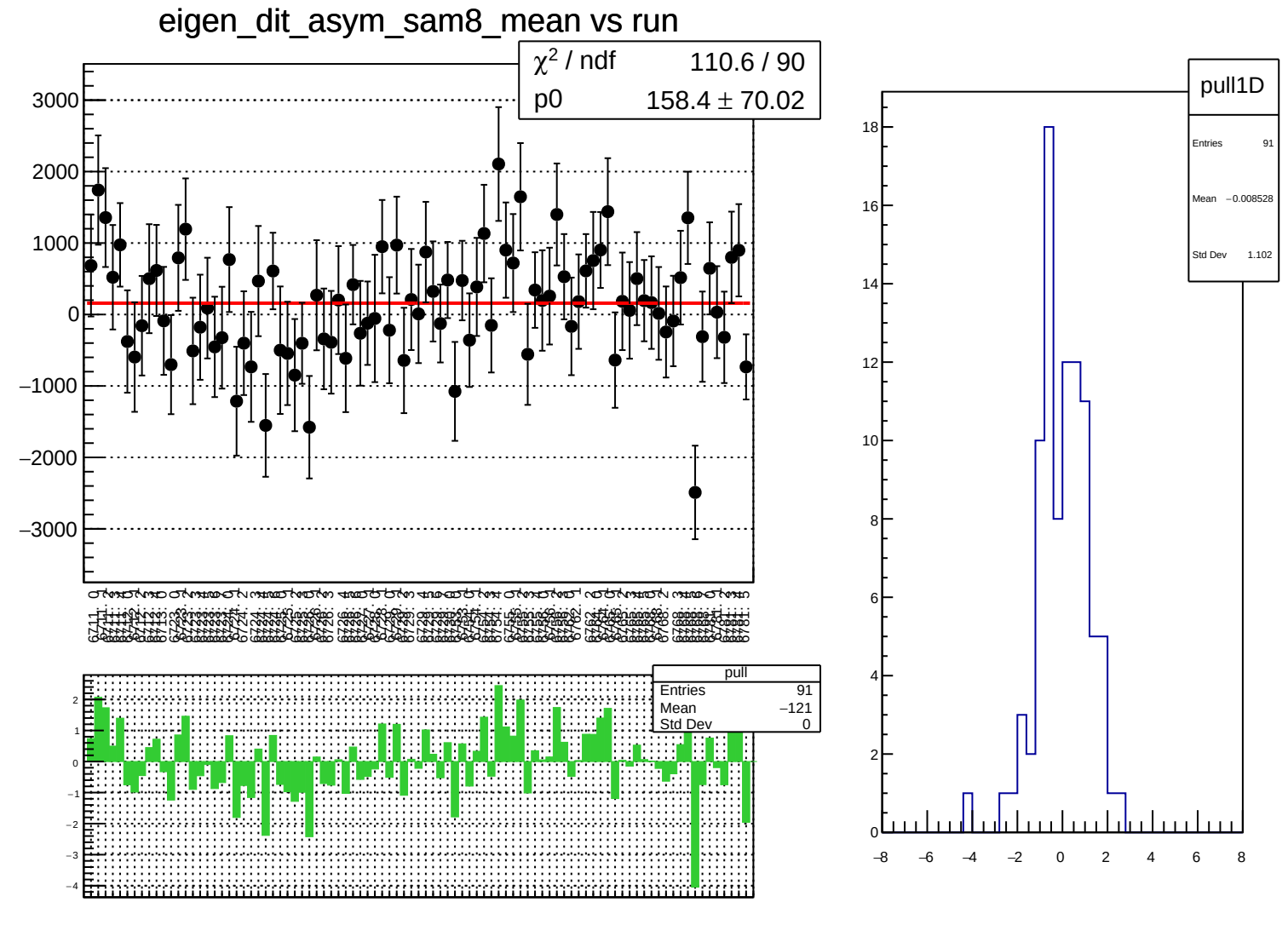

pull1D
Entries 91
Mean −0.008527
Std Dev 1.102

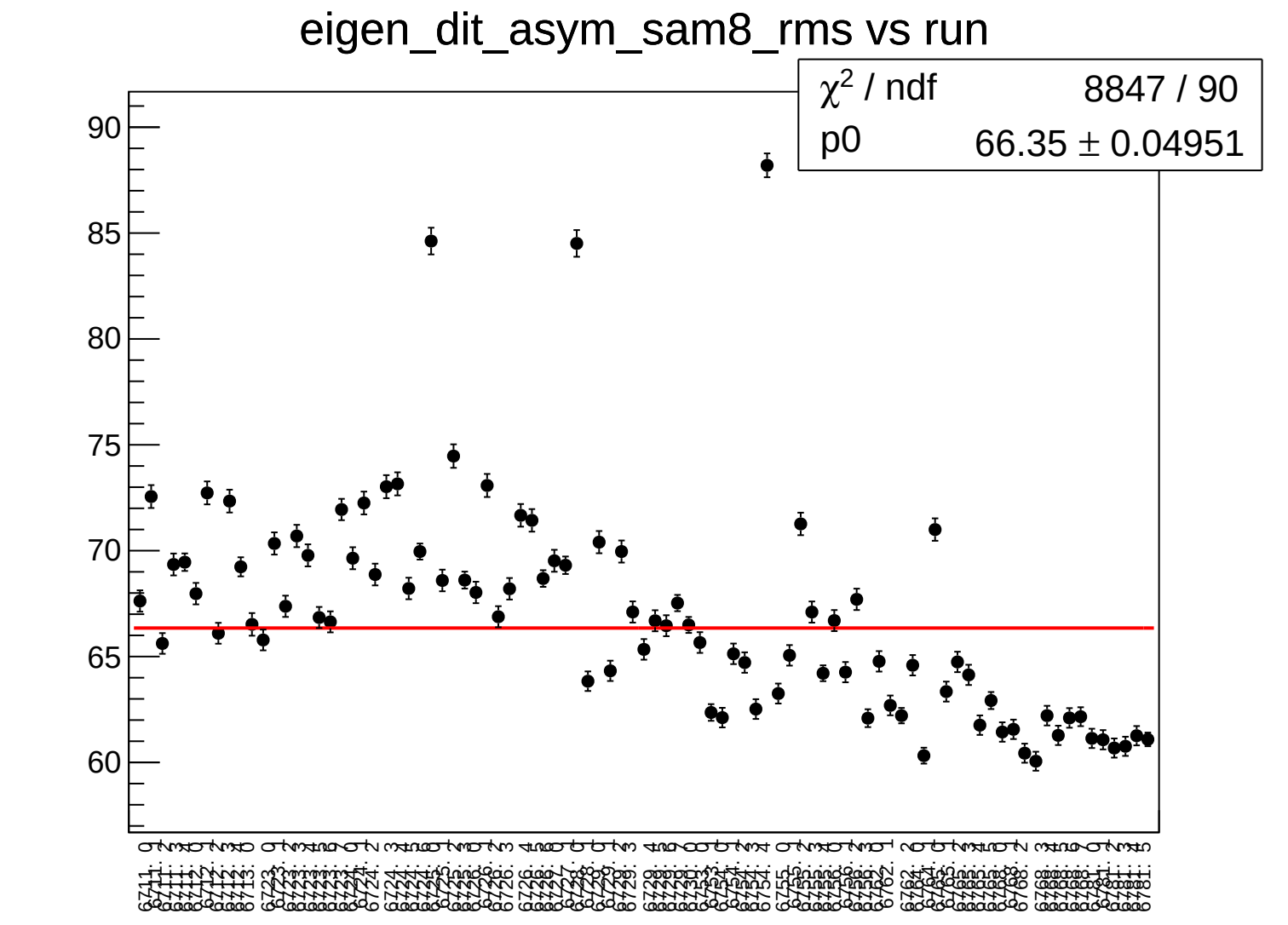

dit_asym_sam8_rms vs run
χ^2 / ndf 8846 / 90
p0 66.35 ± 0.04951
90
85
80
75
70
65
60

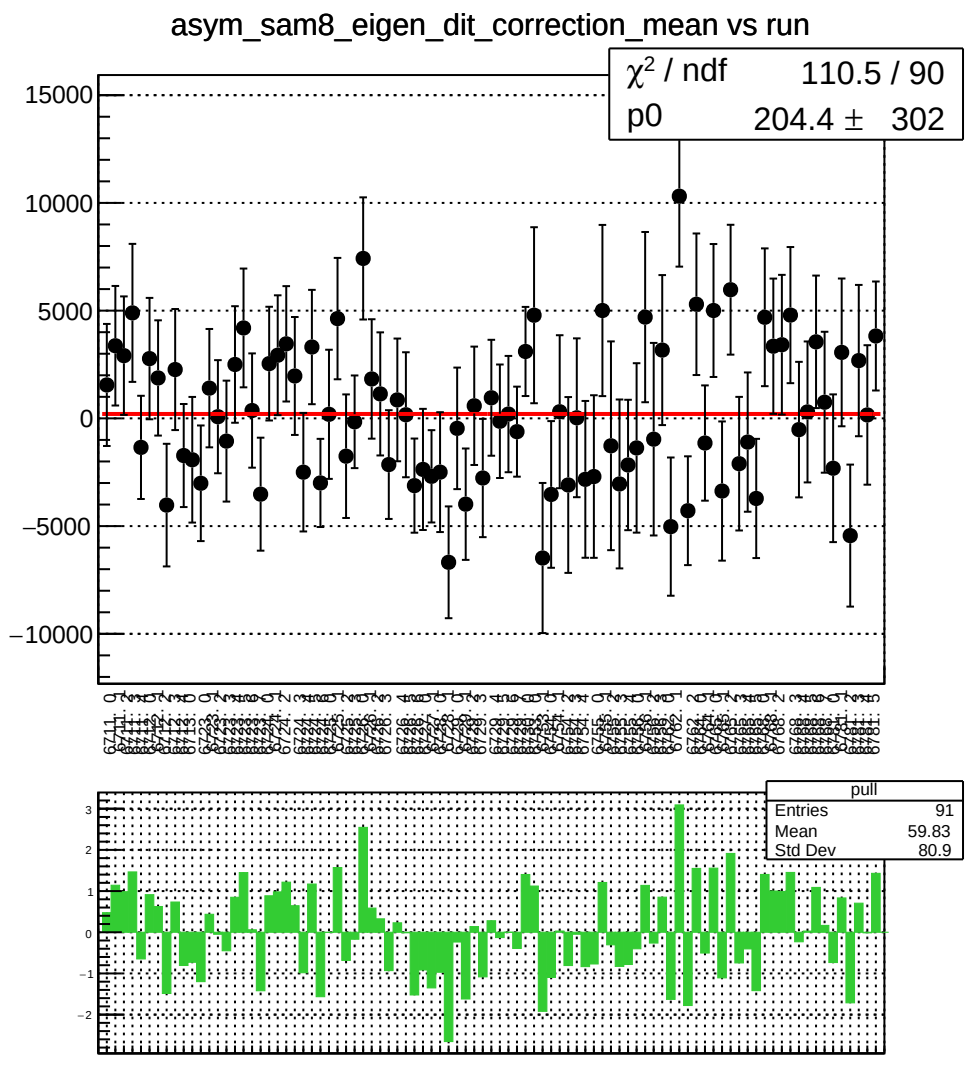

asym_sam8_dit_correction_mean vs run
χ² / ndf 110.5 / 90
p0 204.4 ± 302
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 59.83
Std Dev 80.9
3
2
1
0
−1
−2

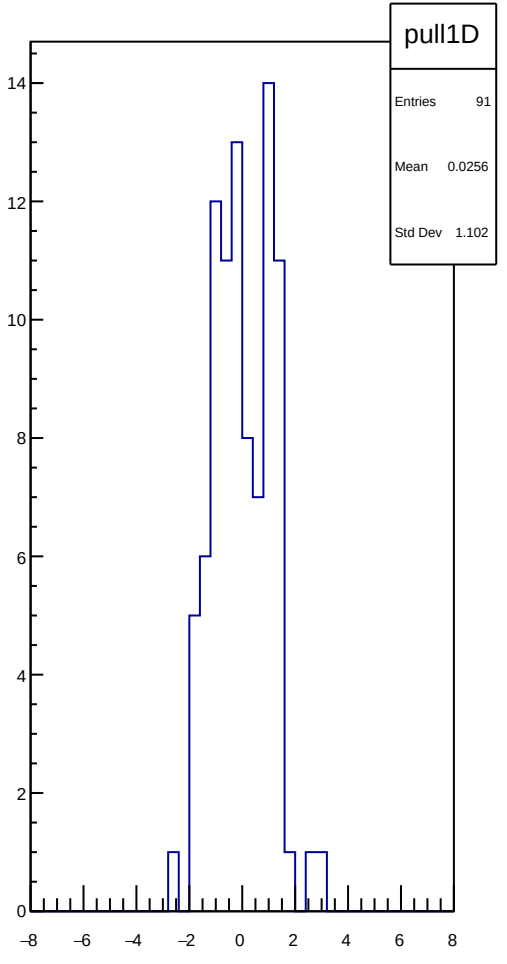

pull1D
Entries 91
Mean 0.0256
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

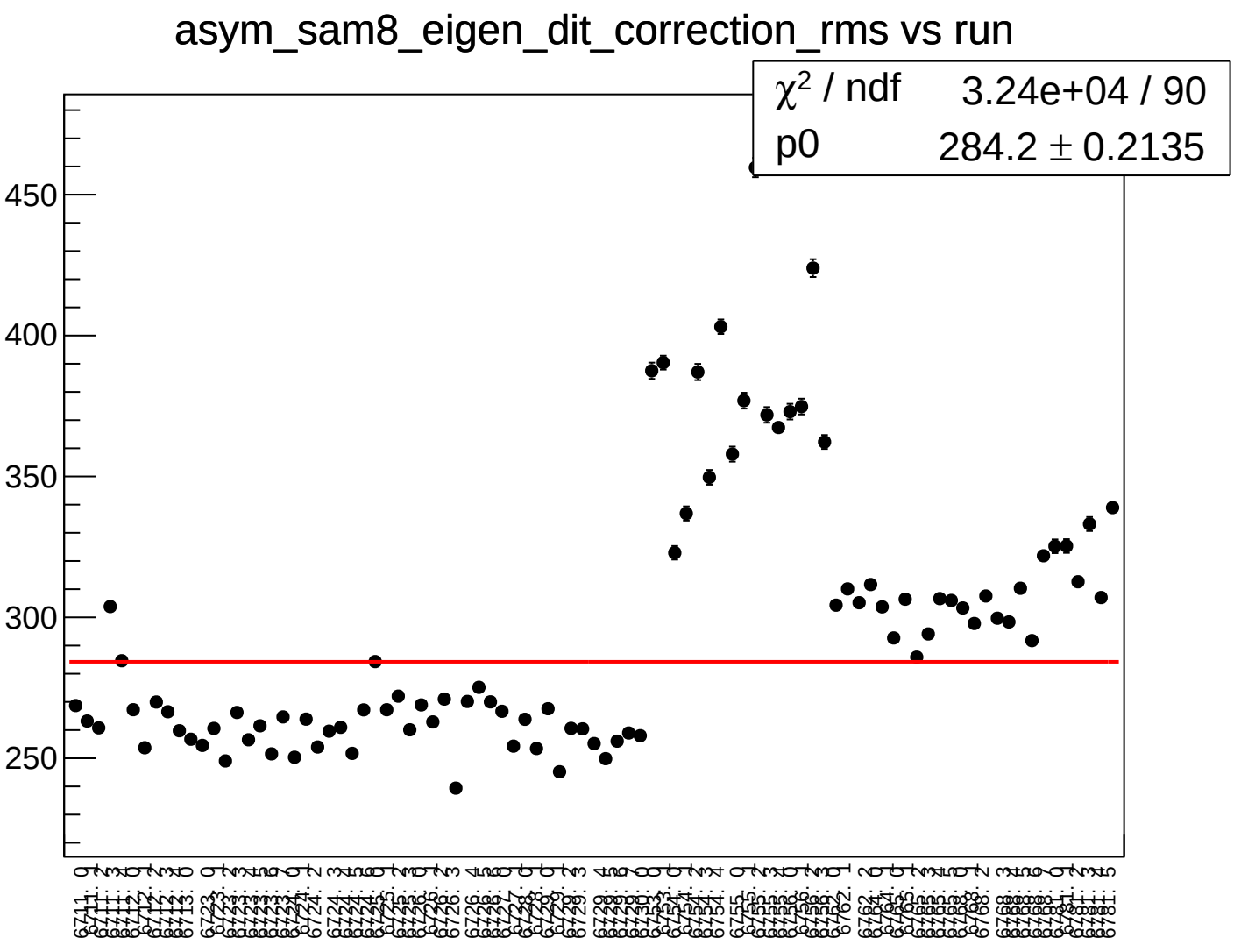

asym_sam8_dit_correction_rms vs run
χ² / ndf 3.239e+04 / 90
p0 284.2 ± 0.2135
450
400
350
300
250

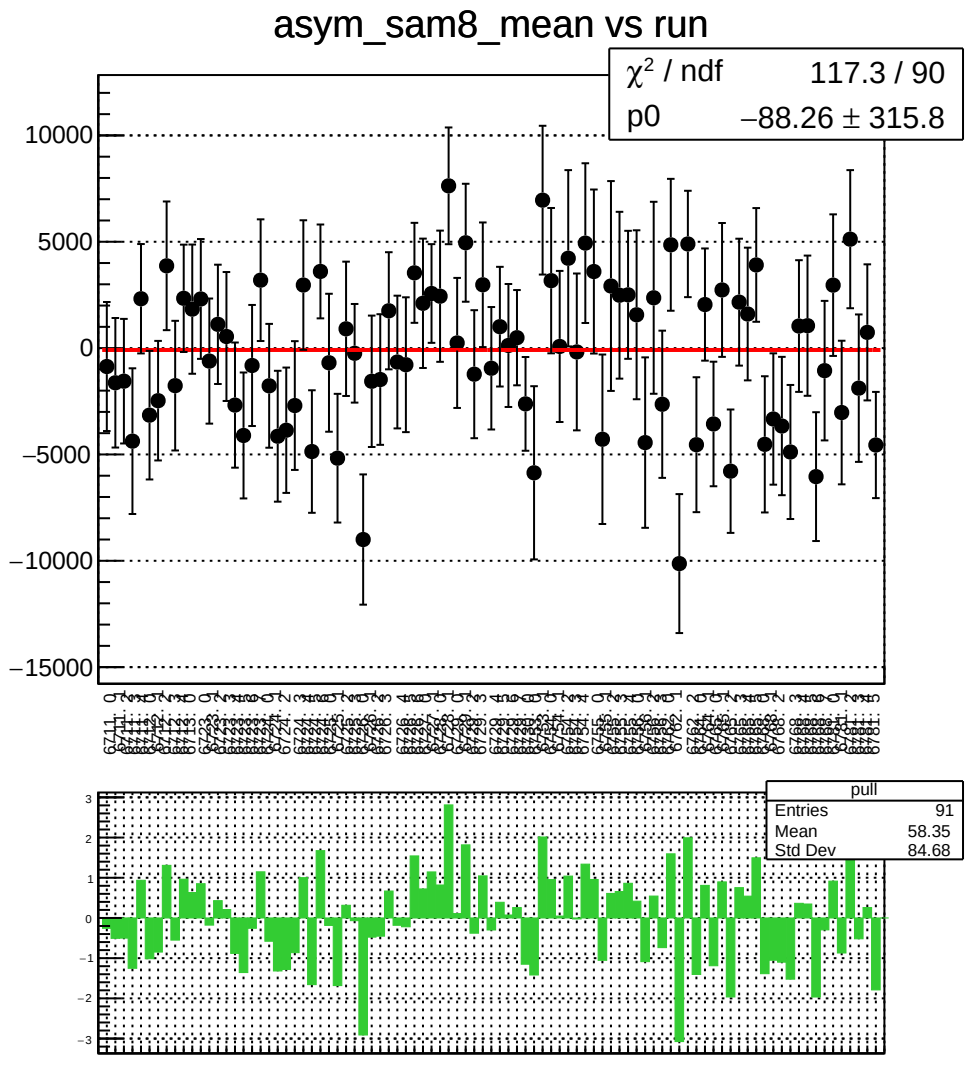

eigen_dit_asym_sam8_mean vs run
χ² / ndf 110.6 / 90
p0 158.4 ± 70.02
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −121
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 91
Mean −0.008528
Std Dev 1.102
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

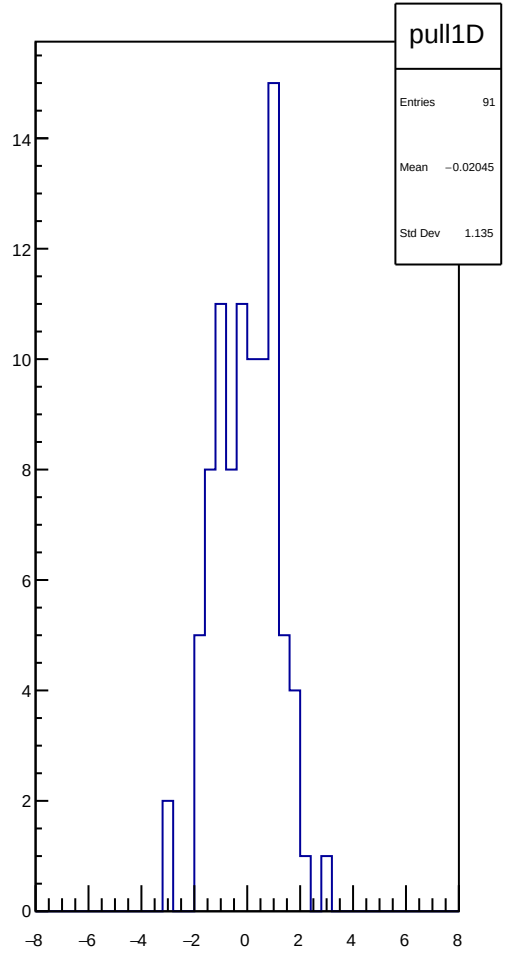

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 8847 / 90
p0 66.35 ± 0.04951
90
85
80
75
70
65
60

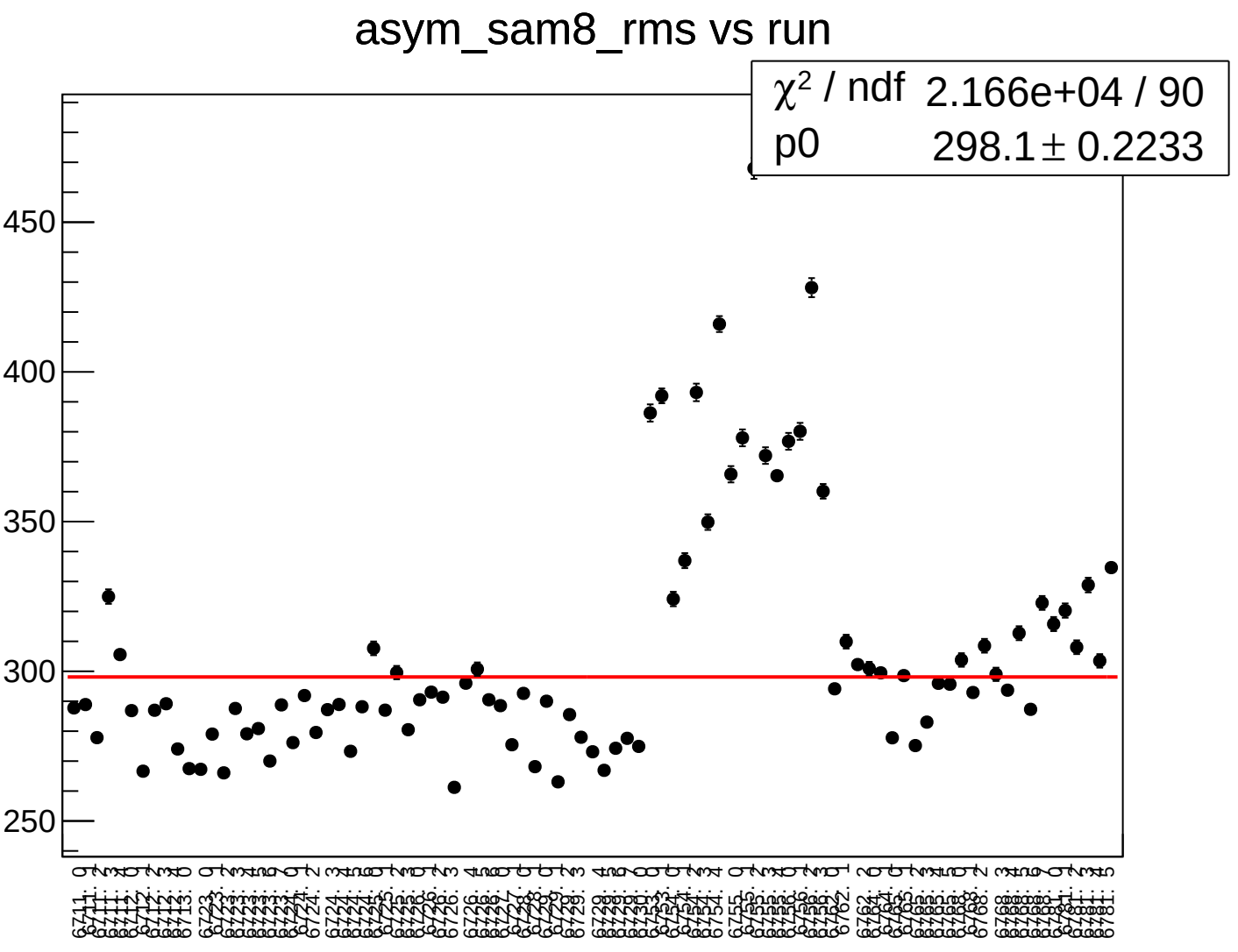

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 110.5 / 90
p0 204.4 ± 302
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 59.83
Std Dev 80.9
3
2
1
0
−1
−2

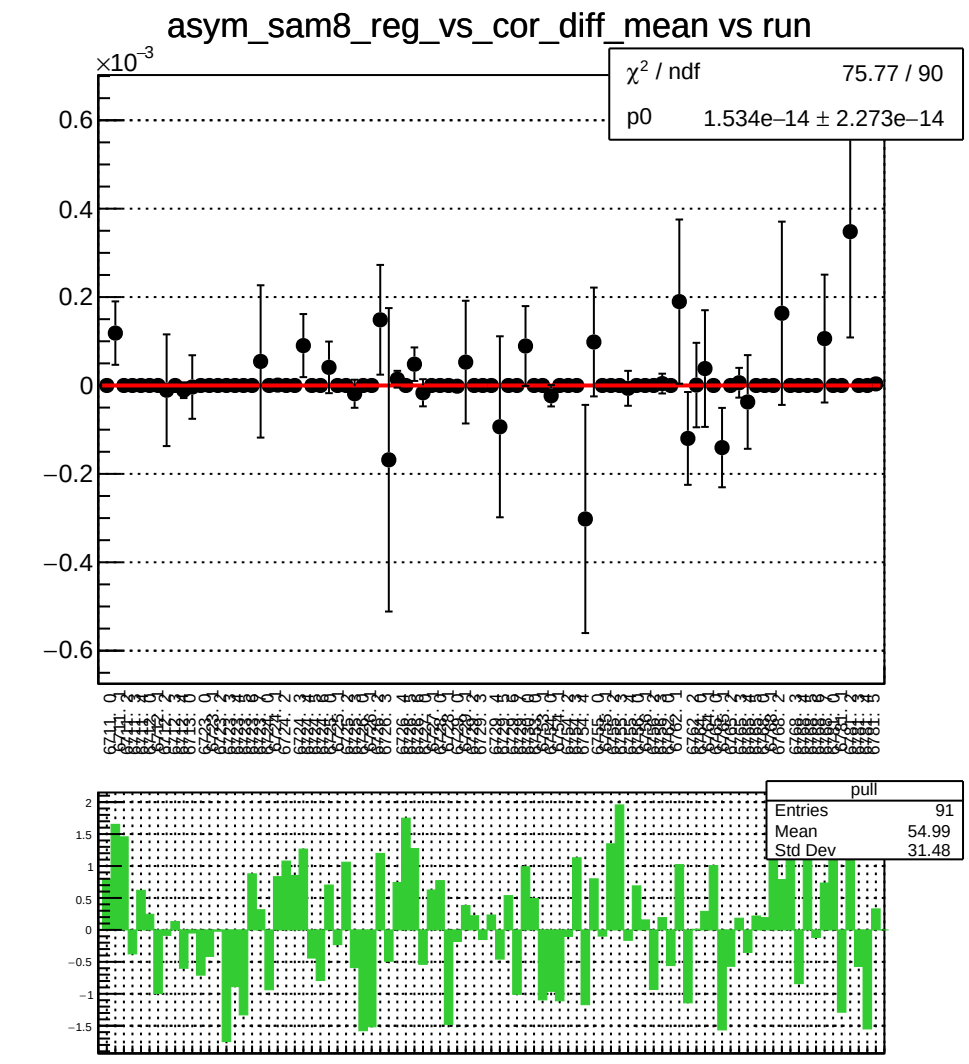

pull1D
Entries 91
Mean 0.0256
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

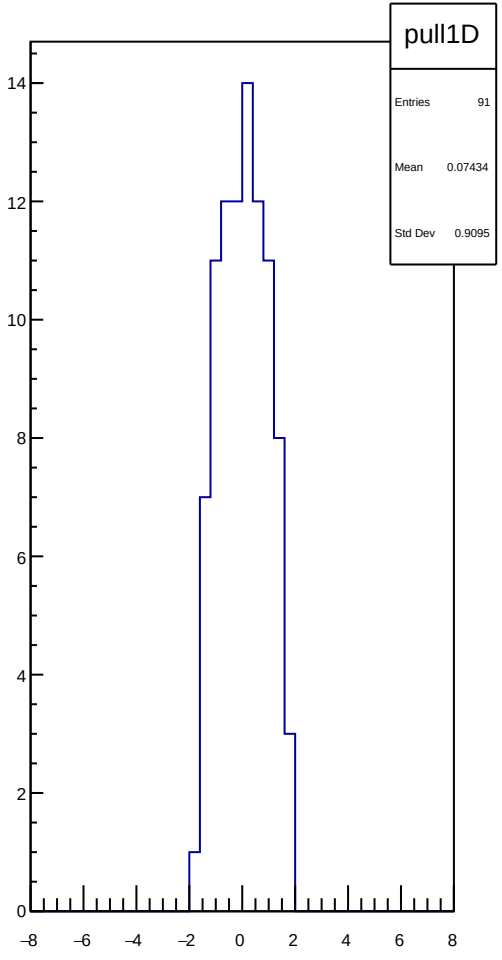

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 3.24e+04 / 90
p0 284.2 ± 0.2135
450
400
350
300
250

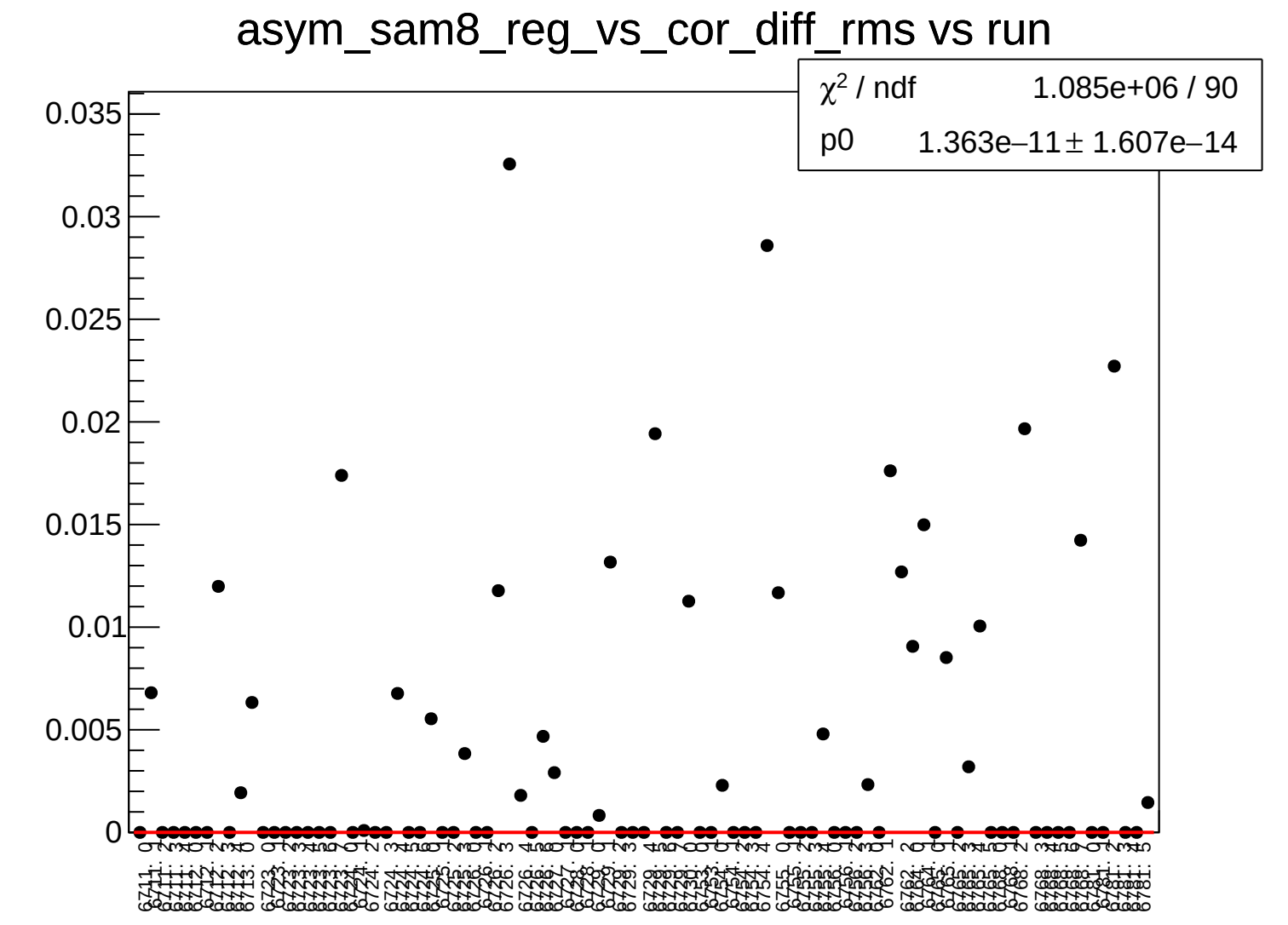

asym_sam8_mean vs run
χ² / ndf 117.3 / 90
p0 −88.26 ± 315.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 58.35
Std Dev 84.68
3
2
1
0
−1
−2
−3

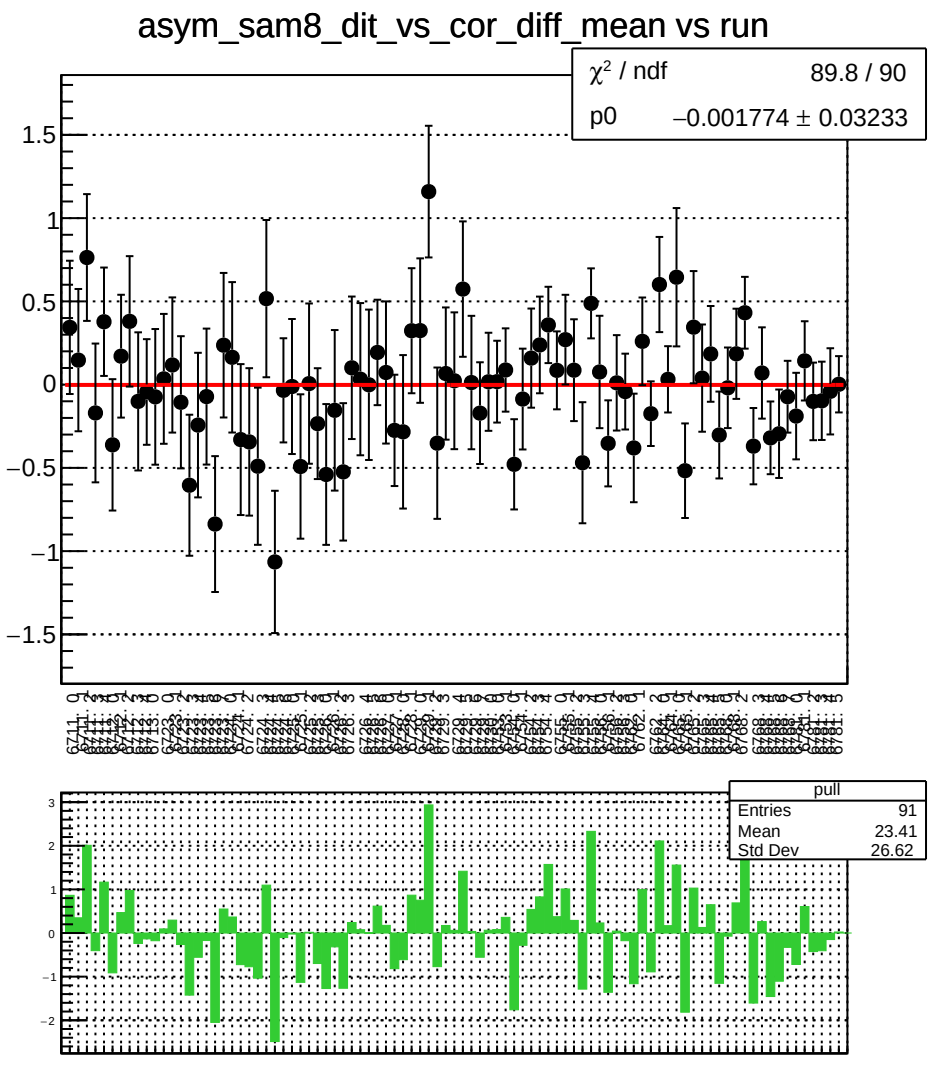

pull1D
Entries 91
Mean −0.02045
Std Dev 1.135
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

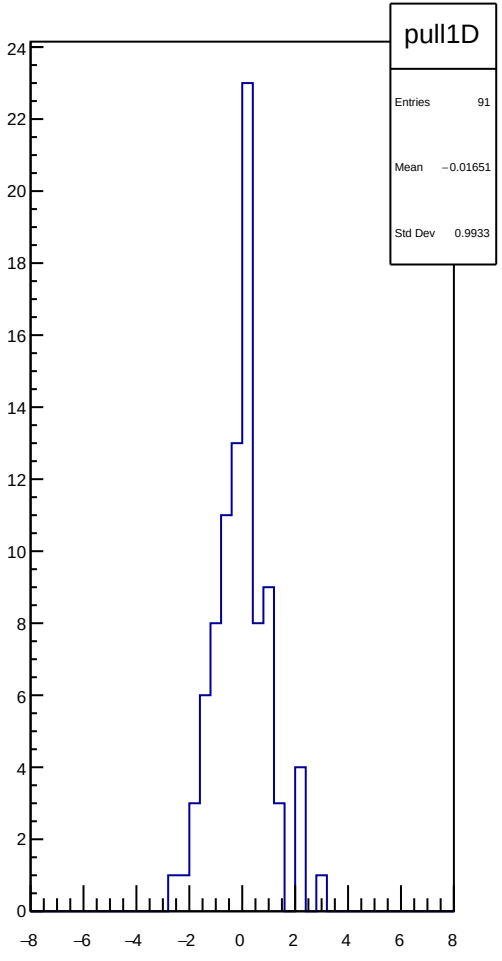

asym_sam8_rms vs run
χ² / ndf 2.166e+04 / 90
p0 298.1 ± 0.2233
450
400
350
300
250

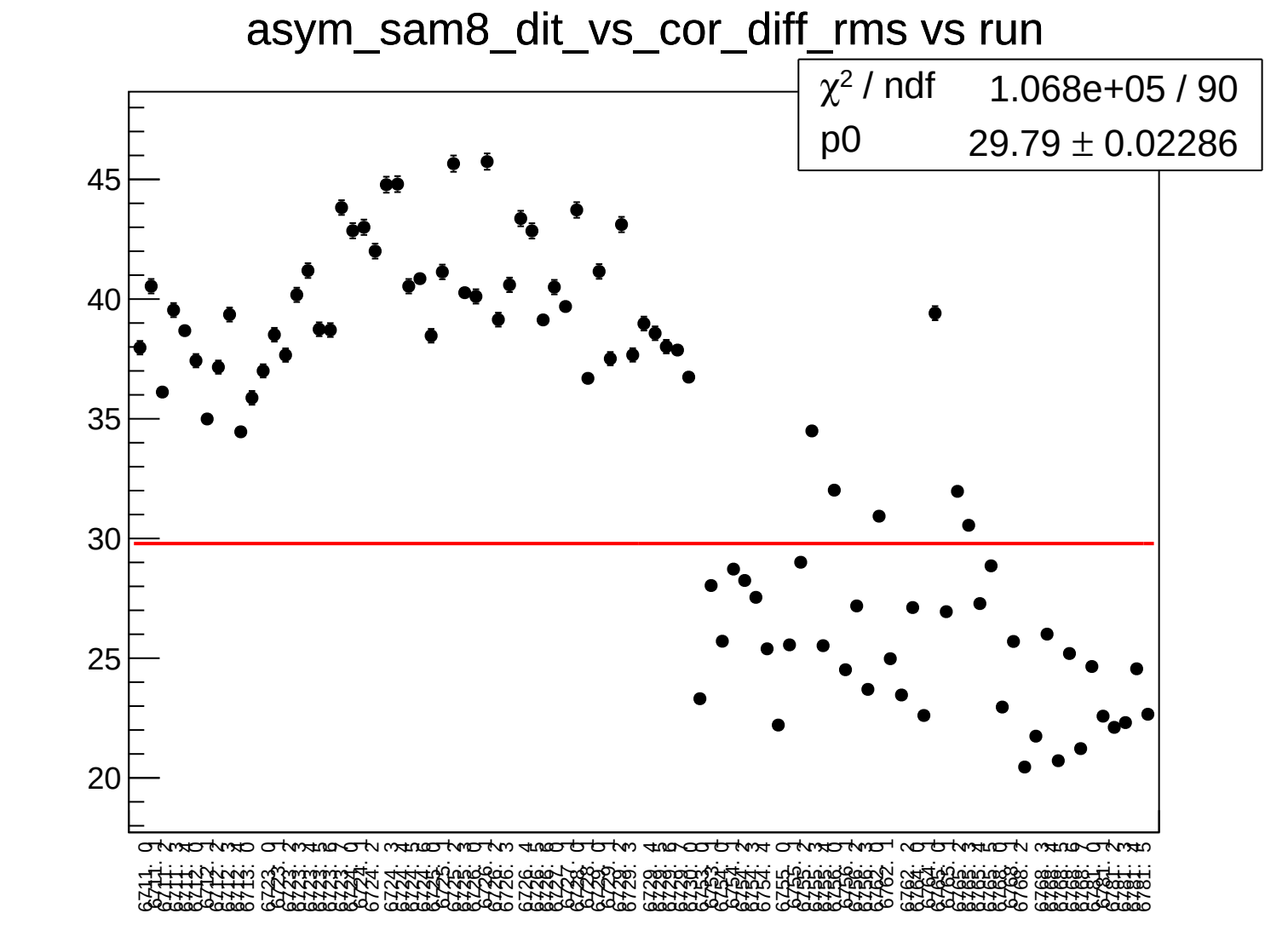

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 75.77 / 90
p0 1.534e−14 ± 2.273e−14
pull
Entries 91
Mean 54.99
Std Dev 31.48

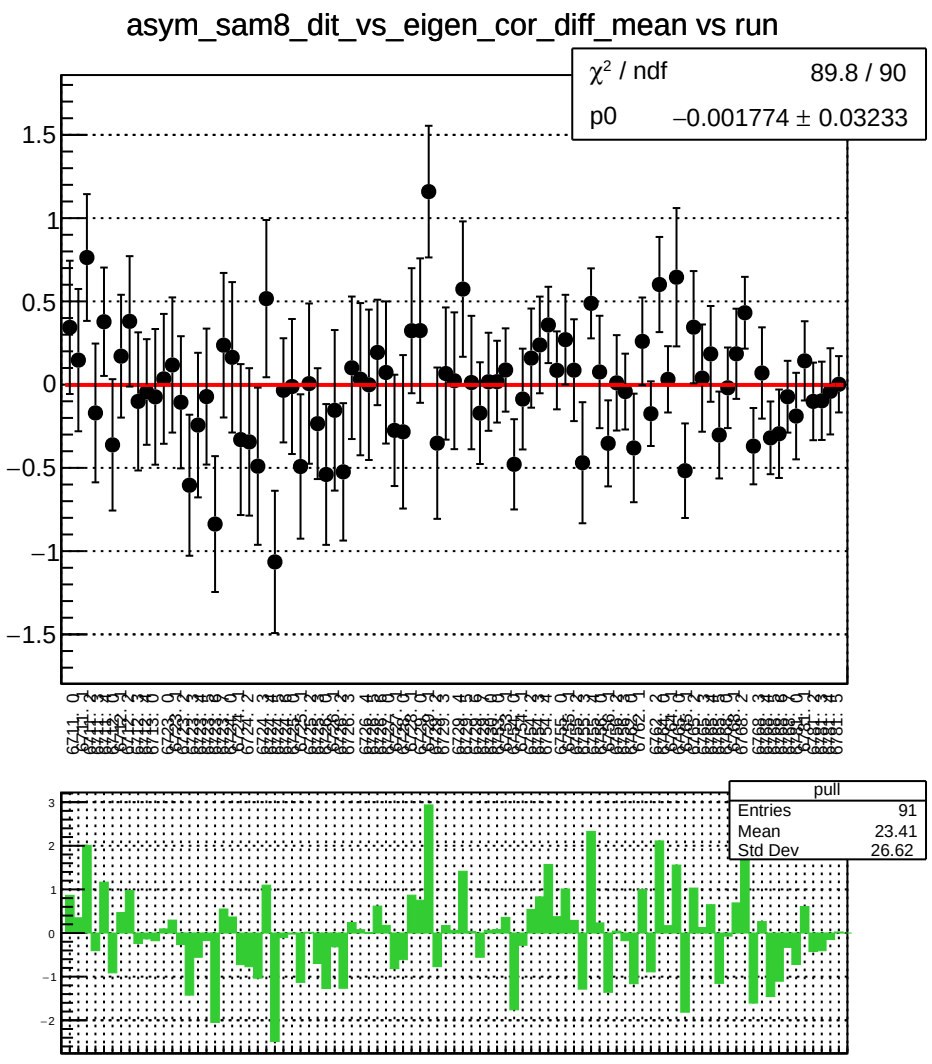

pull1D
Entries 91
Mean 0.07434
Std Dev 0.9095

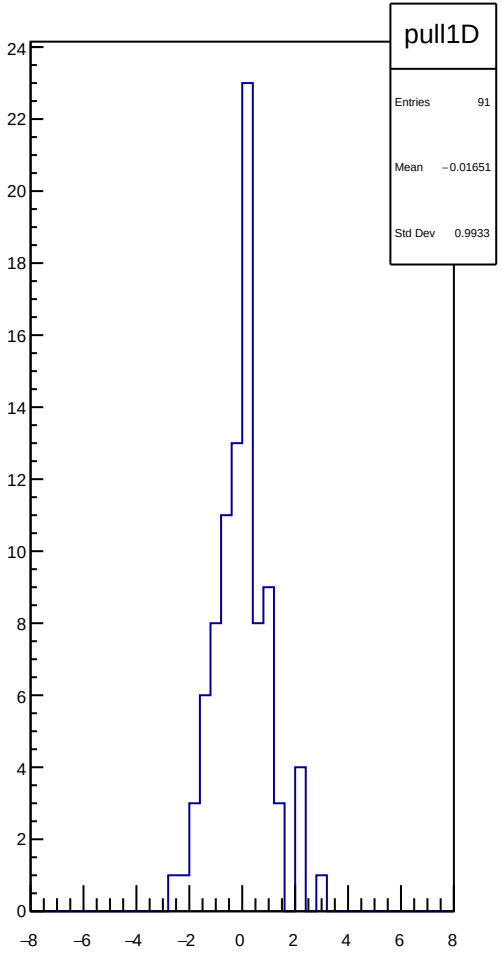

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.085e+06 / 90
p0 1.363e−11 ± 1.607e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

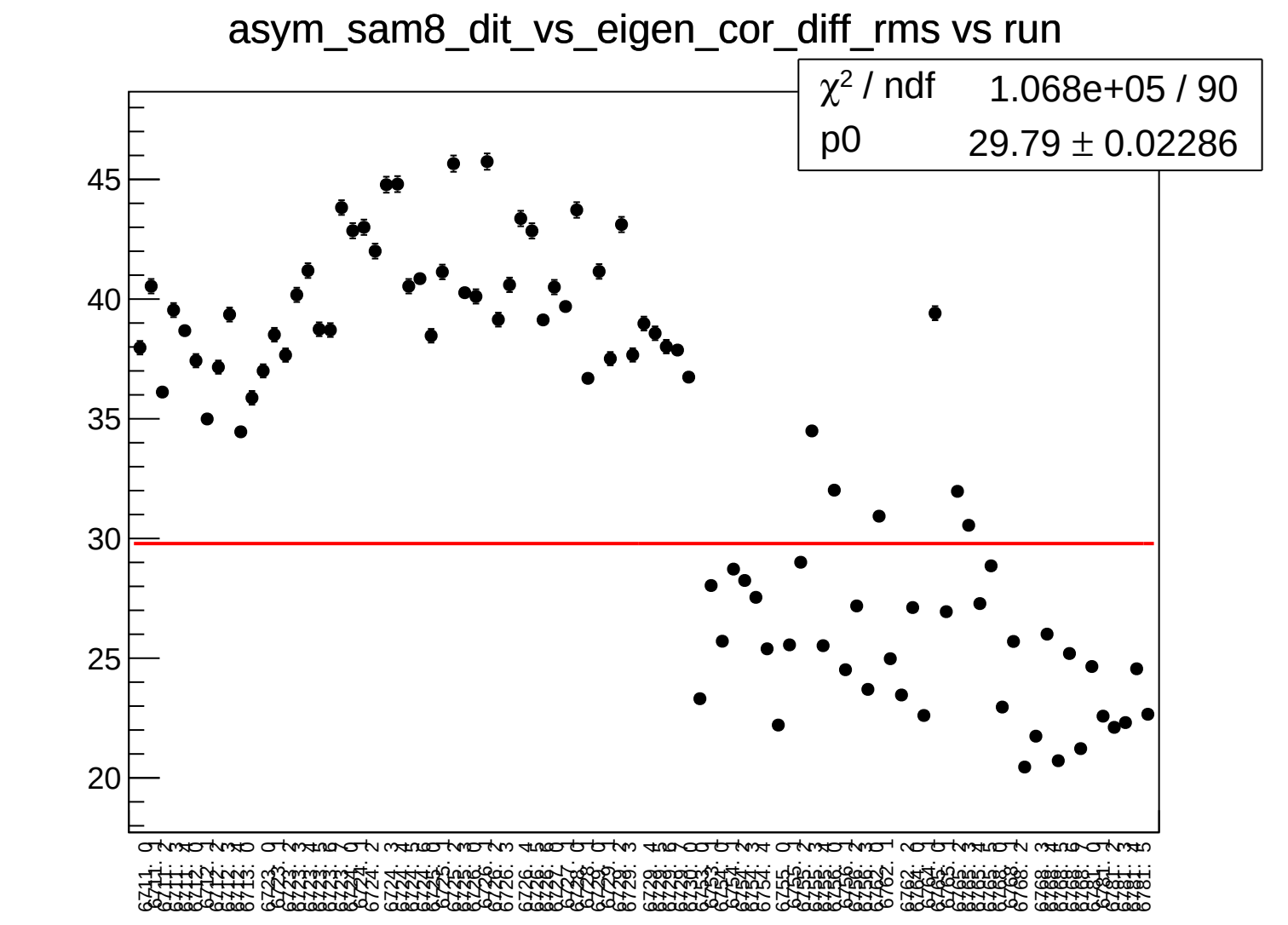

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 89.8 / 90
p0 −0.001774 ± 0.03233
pull
Entries 91
Mean 23.41
Std Dev 26.62

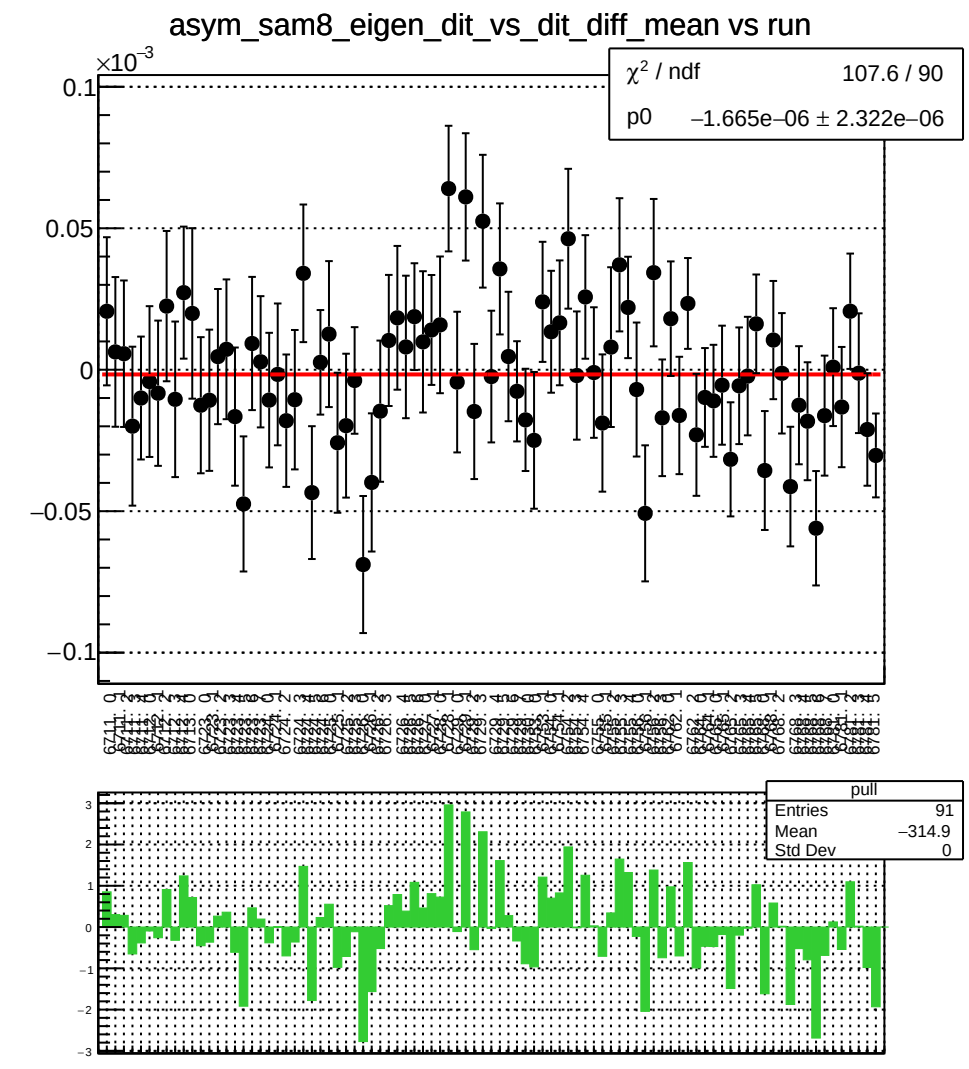

pull1D
Entries 91
Mean −0.01651
Std Dev 0.9933

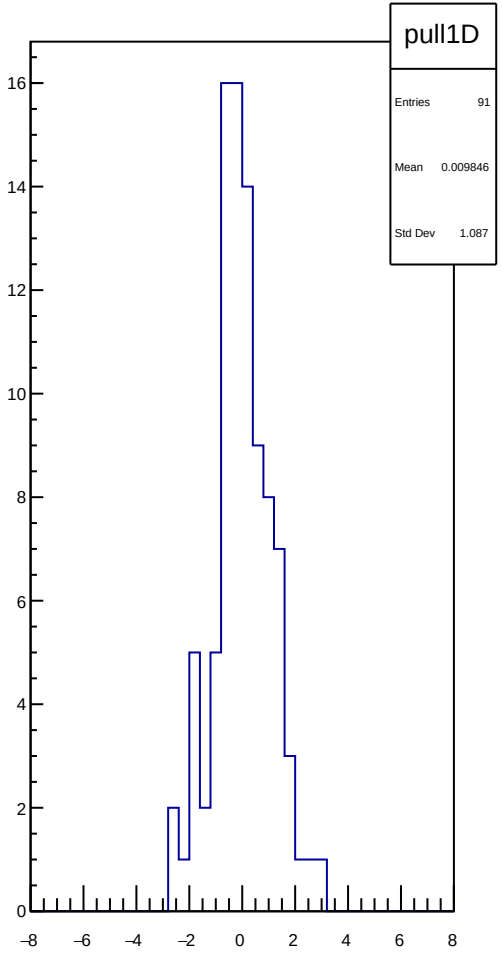

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 1.068e+05 / 90
p0 29.79 ± 0.02286
45
40
35
30
25
20

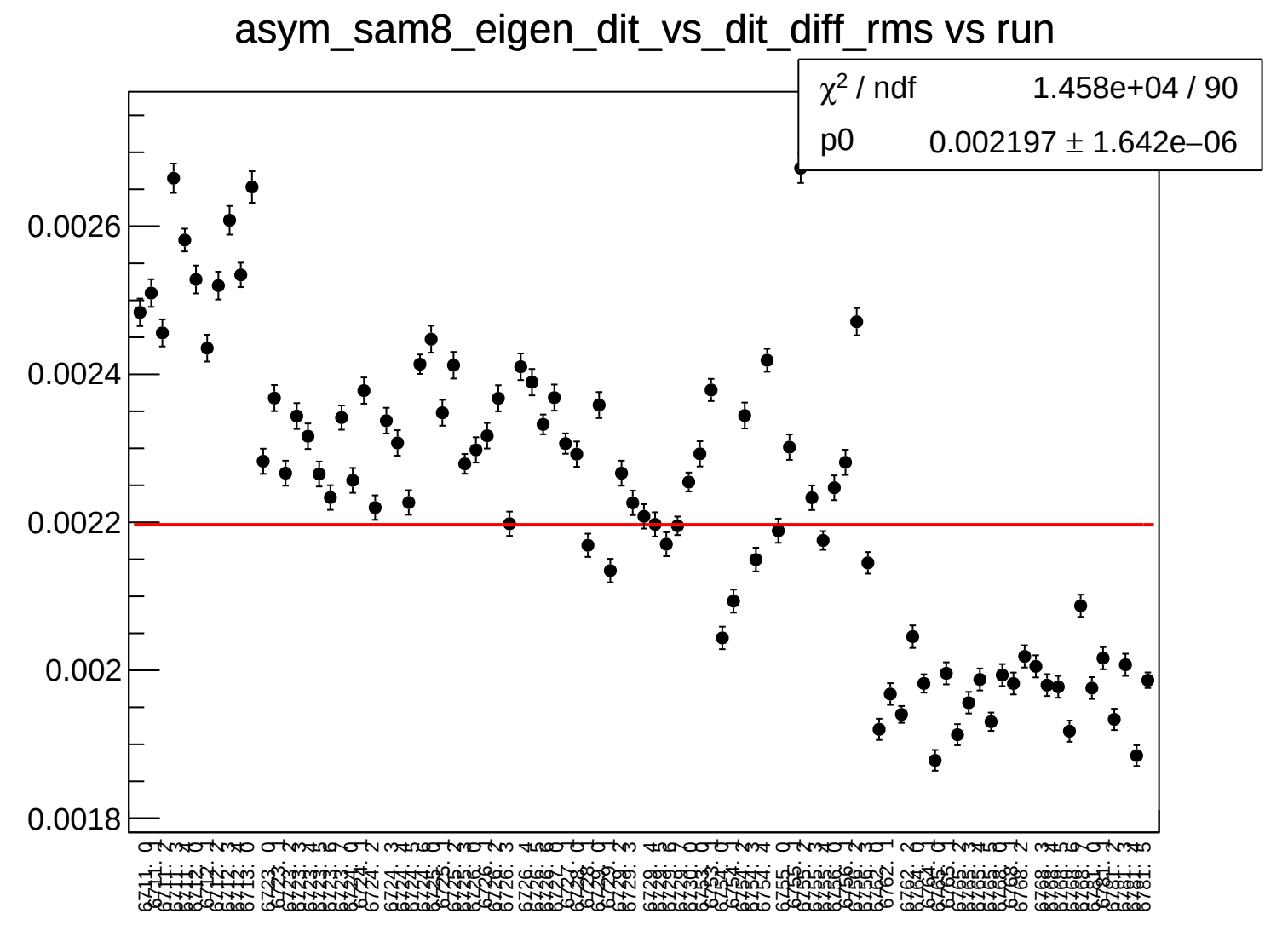

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.8 / 90
p0 −0.001774 ± 0.03233
pull
Entries 91
Mean 23.41
Std Dev 26.62

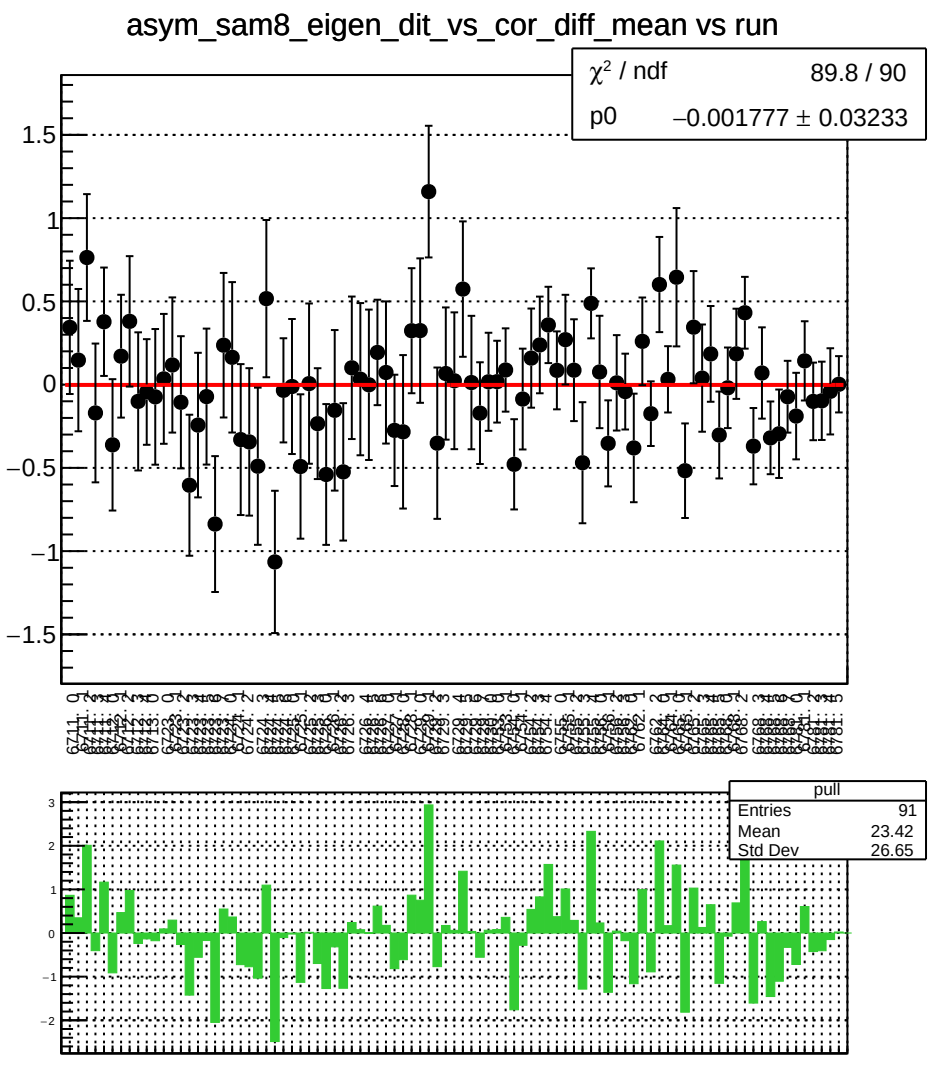

pull1D
Entries 91
Mean −0.01651
Std Dev 0.9933

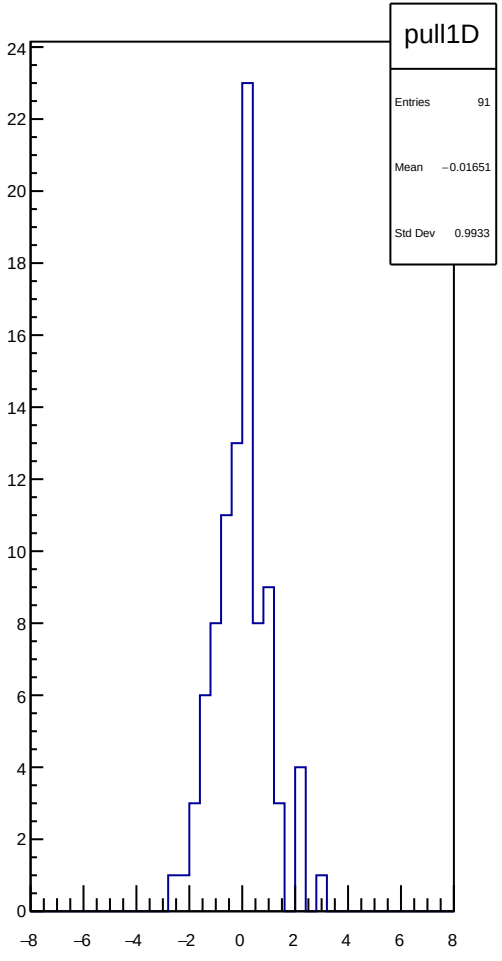

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.068e+05 / 90
p0 29.79 ± 0.02286
45
40
35
30
25
20

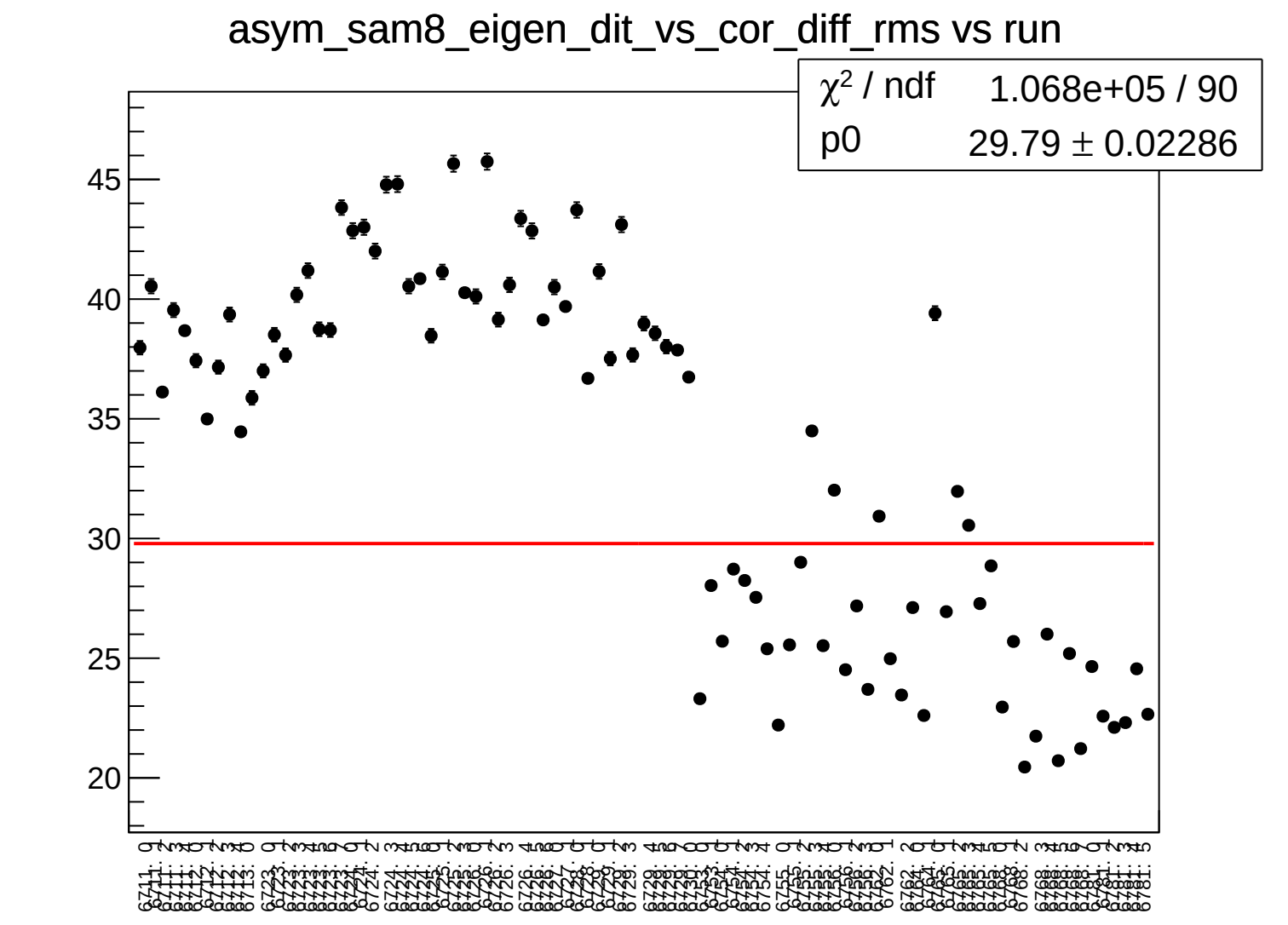

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.6 / 90
p0 −1.665e−06 ± 2.322e−06
pull
Entries 91
Mean −314.9
Std Dev 0

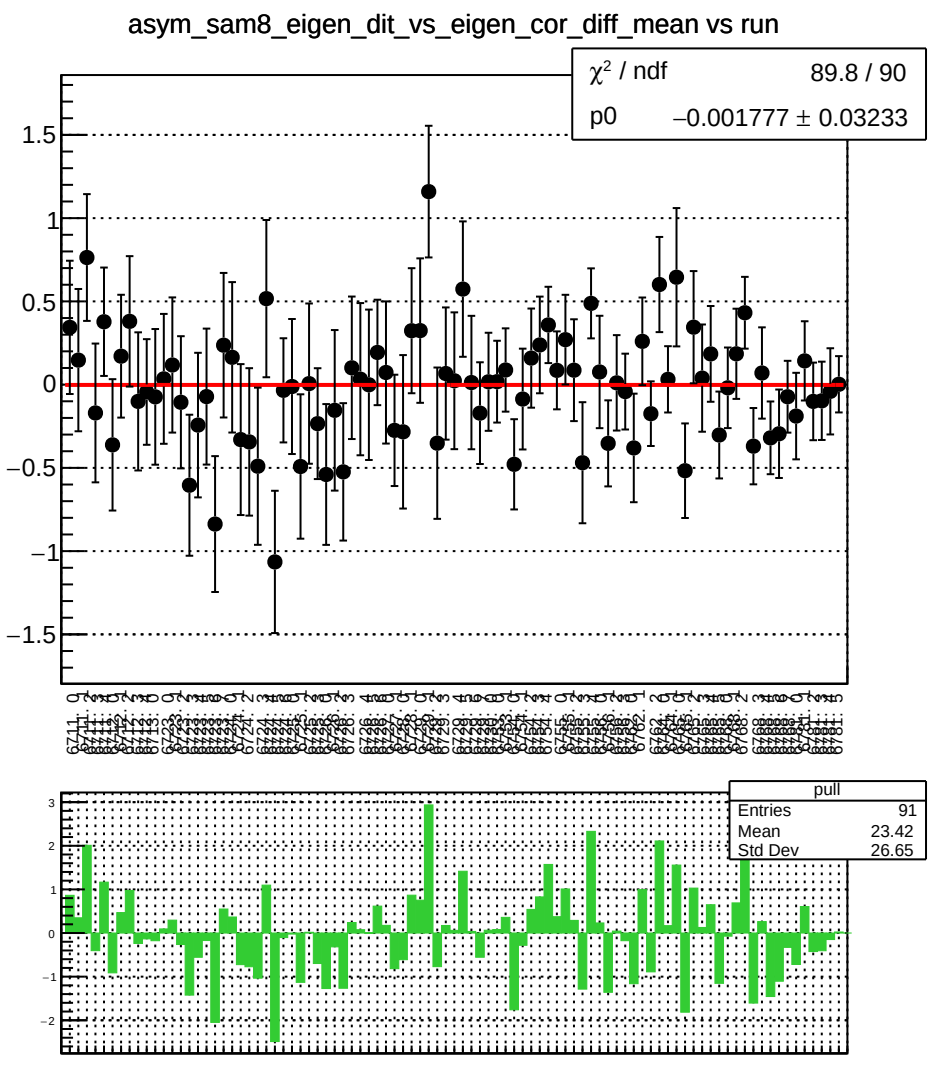

pull1D
Entries 91
Mean 0.009846
Std Dev 1.087

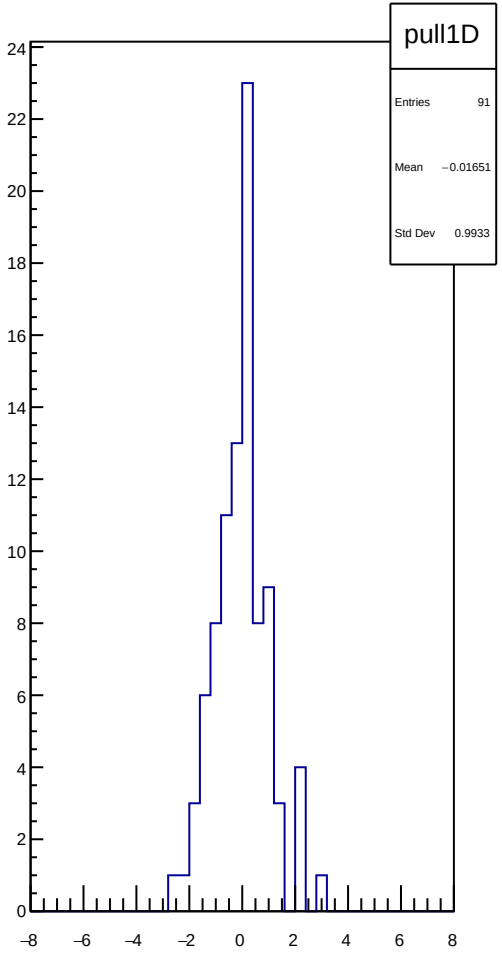

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.458e+04 / 90
p0 0.002197 ± 1.642e−06
0.0026
0.0024
0.0022
0.002
0.0018

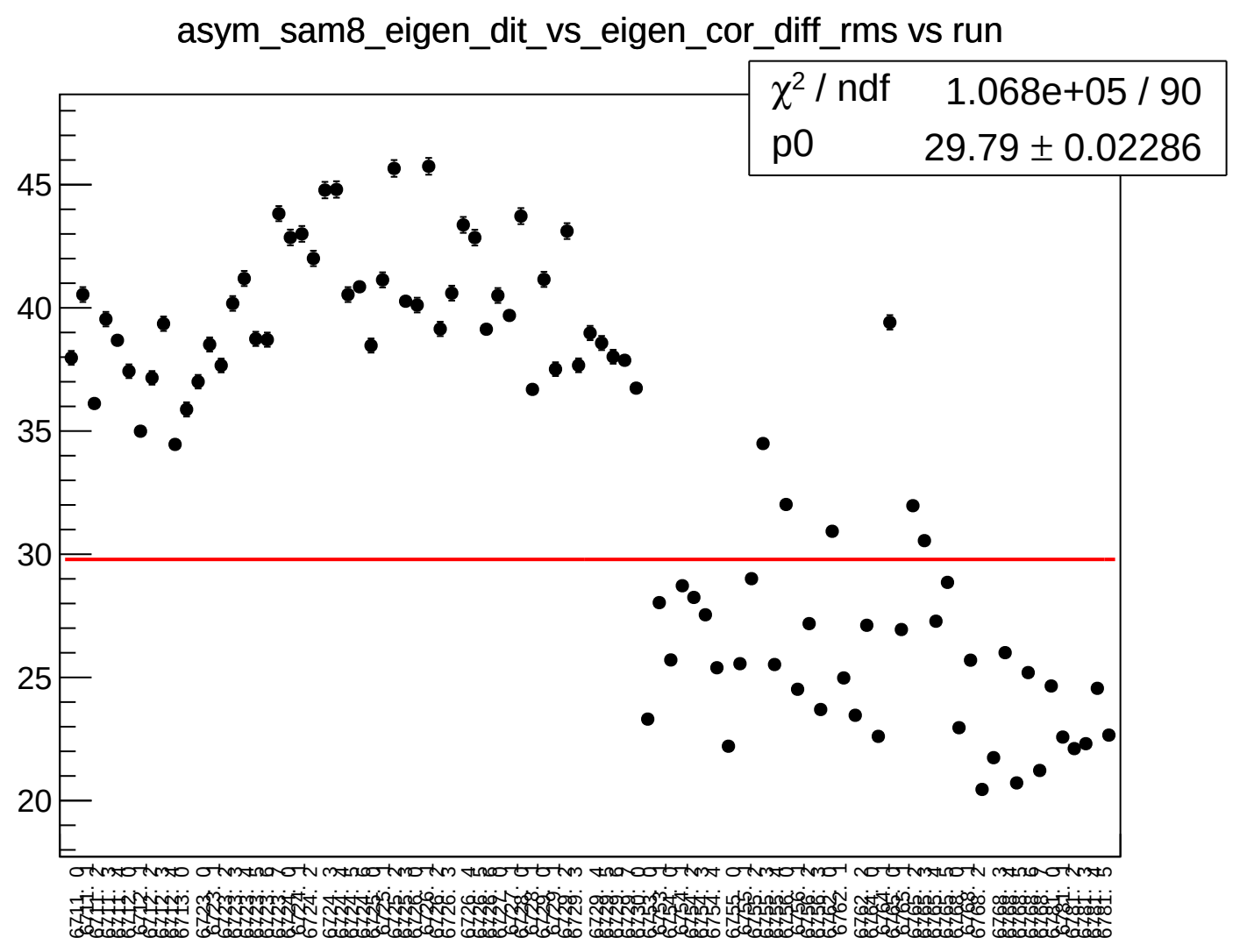

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.8 / 90
p0 −0.001777 ± 0.03233
pull
Entries 91
Mean 23.42
Std Dev 26.65

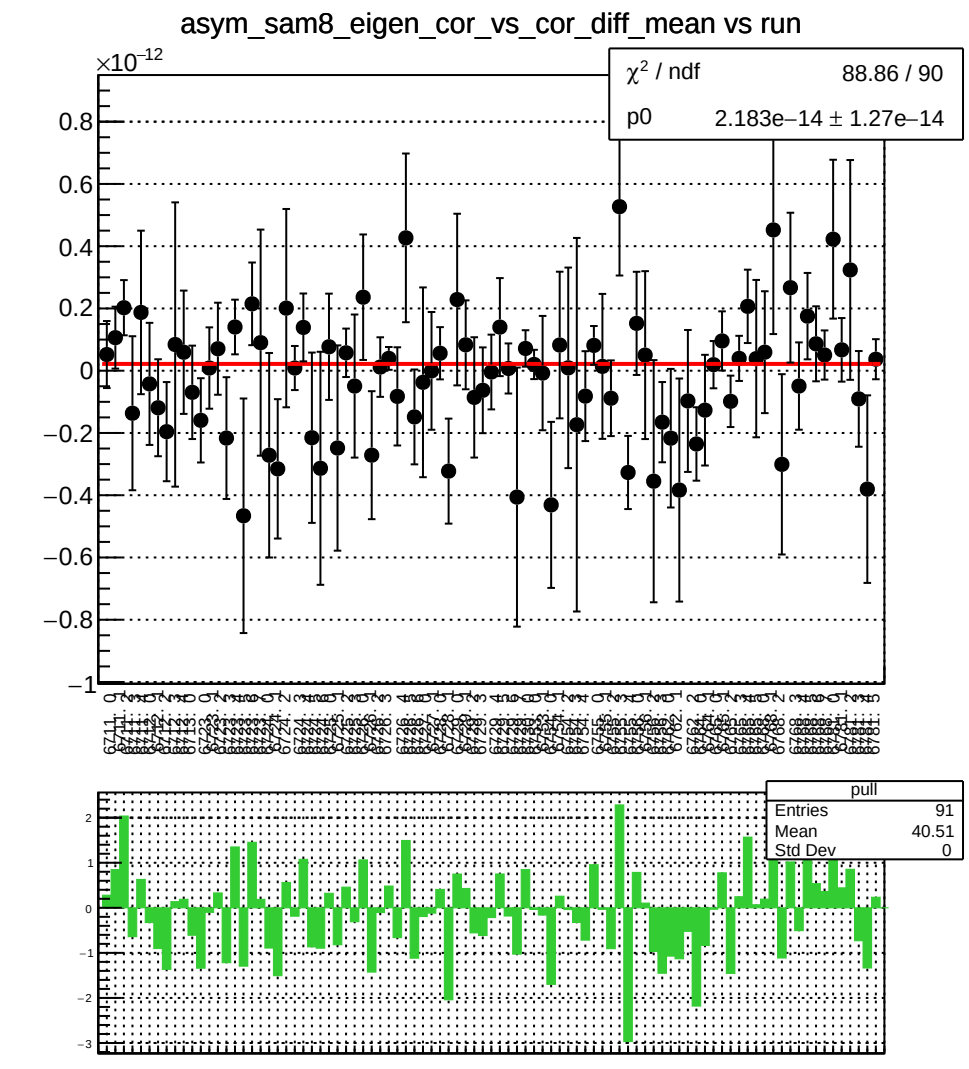

pull1D
Entries 91
Mean −0.01651
Std Dev 0.9933

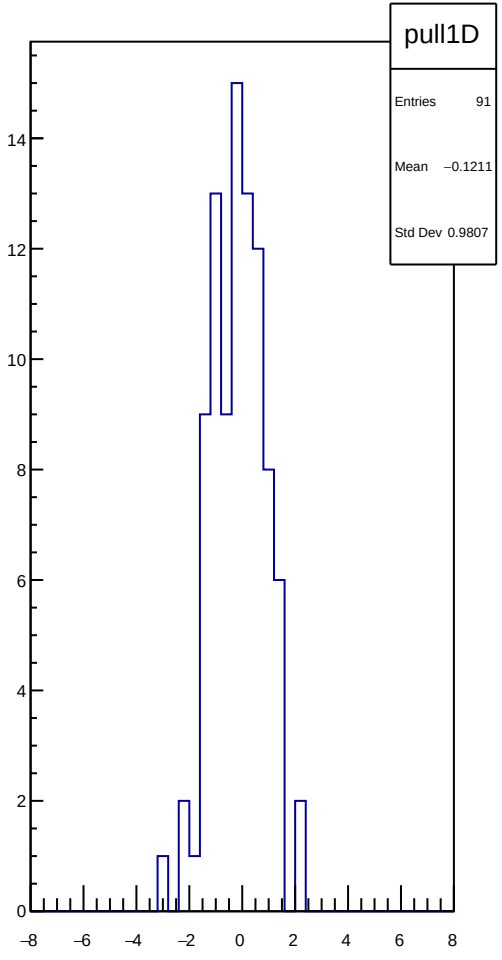

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.068e+05 / 90
p0 29.79 ± 0.02286
45
40
35
30
25
20

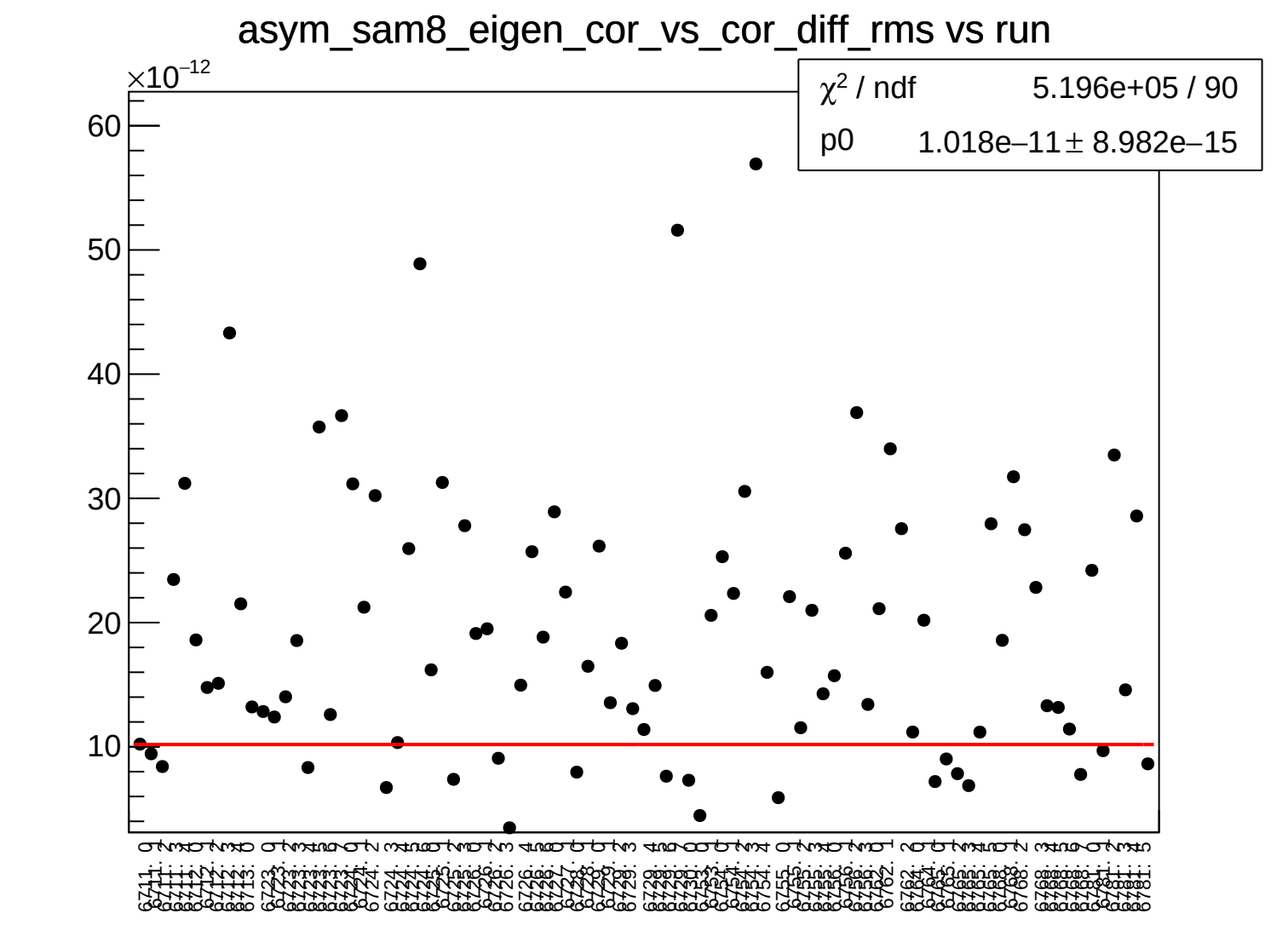

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.8 / 90
p0 −0.001777 ± 0.03233
pull
Entries 91
Mean 23.42
Std Dev 26.65

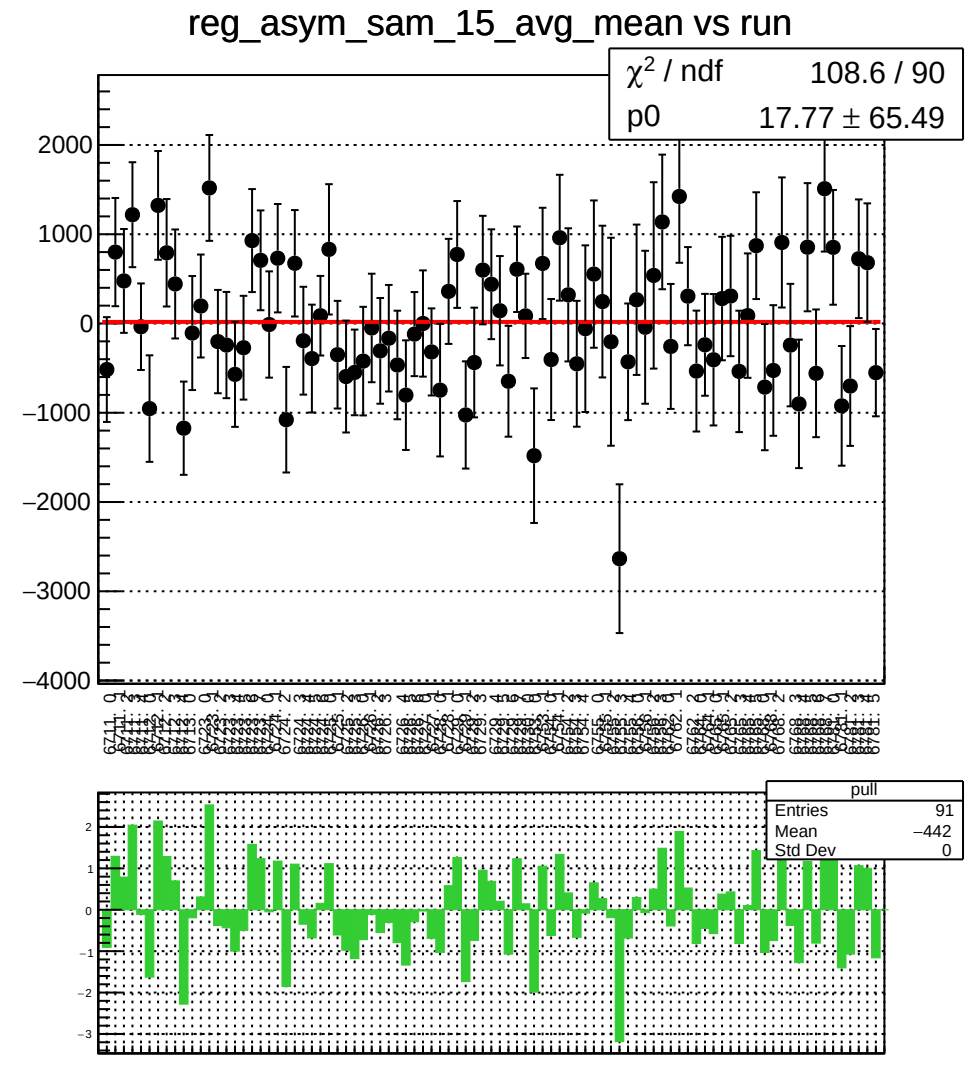

pull1D
Entries 91
Mean −0.01651
Std Dev 0.9933

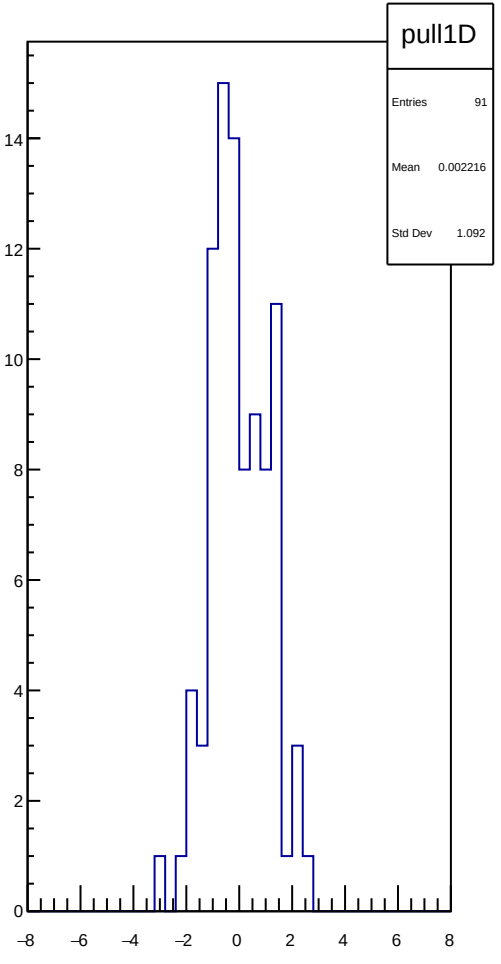

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.068e+05 / 90
p0 29.79 ± 0.02286
45
40
35
30
25
20

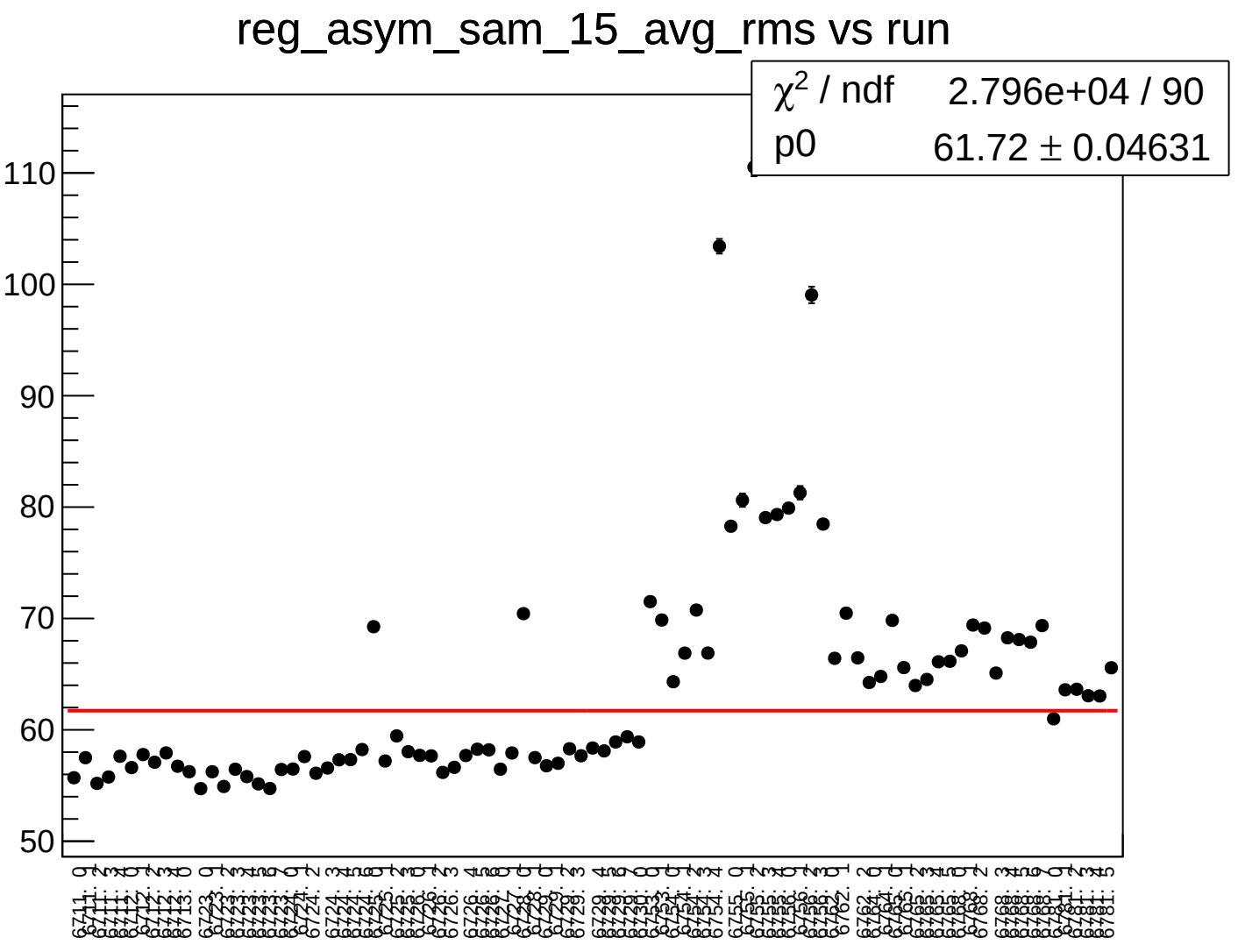

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.86 / 90
p0 2.183e−14 ± 1.27e−14
pull
Entries 91
Mean 40.51
Std Dev 0

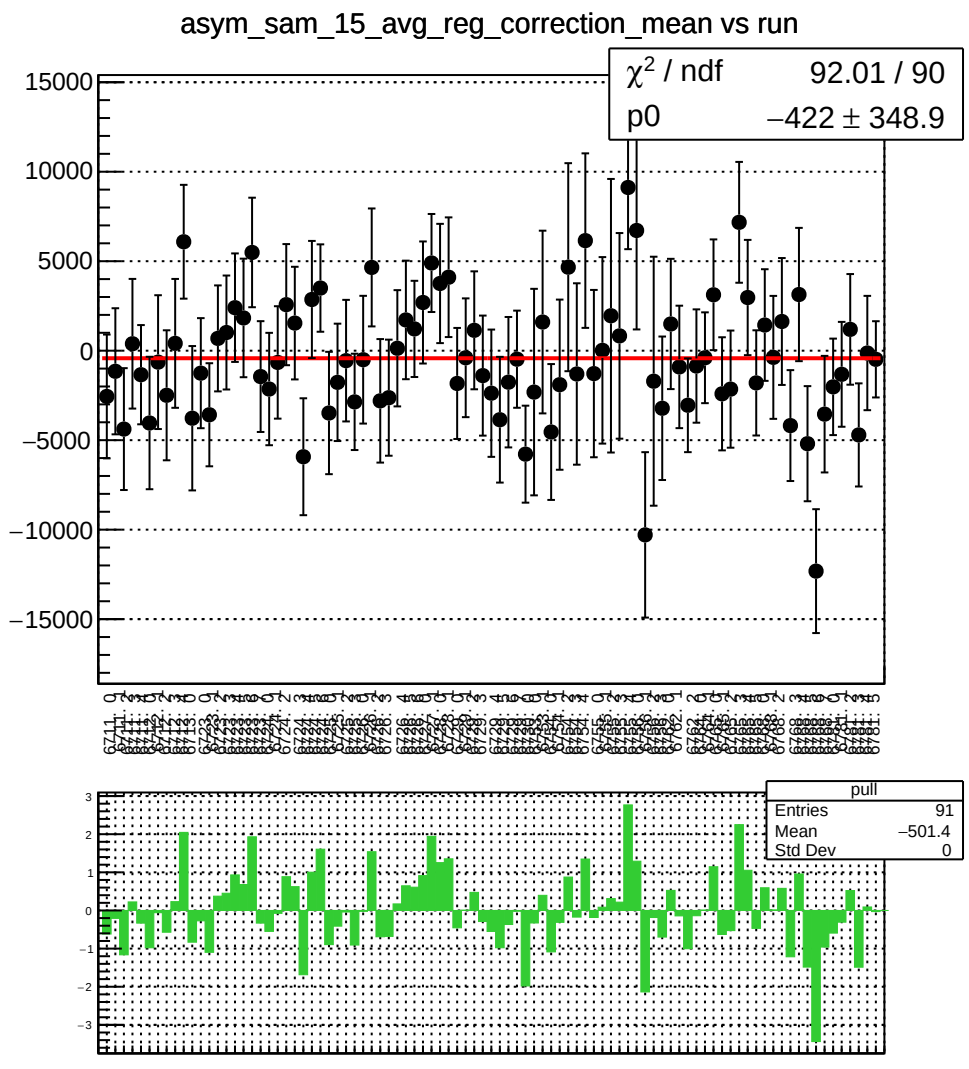

pull1D
Entries 91
Mean −0.1211
Std Dev 0.9807

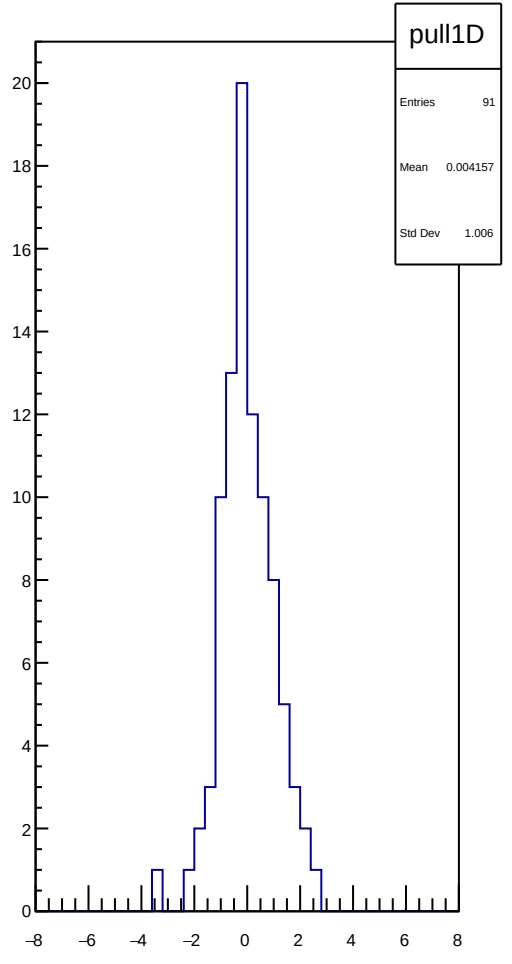

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.196e+05 / 90
p0 1.018e−11 ± 8.982e−15
60
50
40
30
20
10

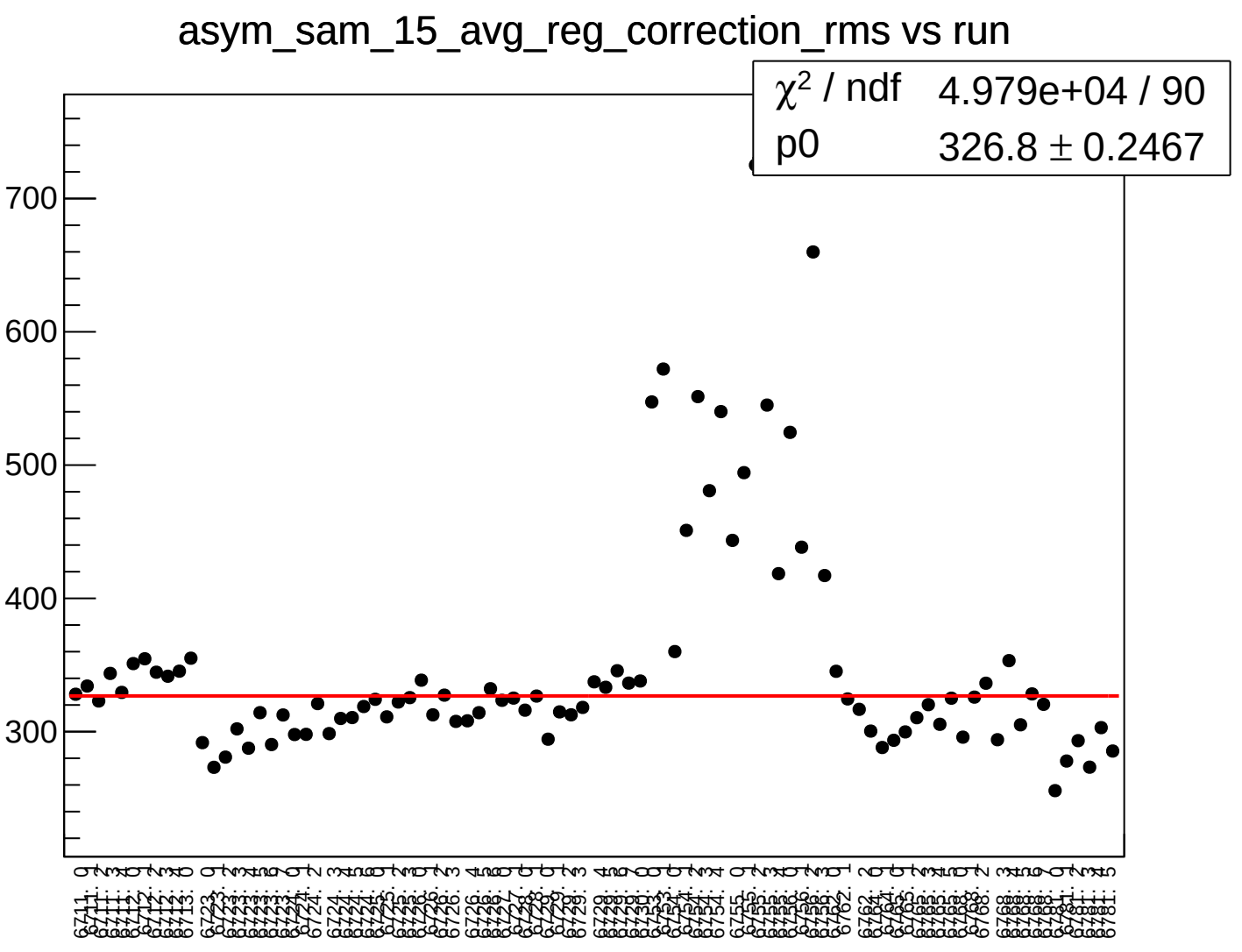

reg_asym_sam_15_avg_mean vs run
χ² / ndf 108.6 / 90
p0 17.77 ± 65.49
pull
Entries 91
Mean −442
Std Dev 0

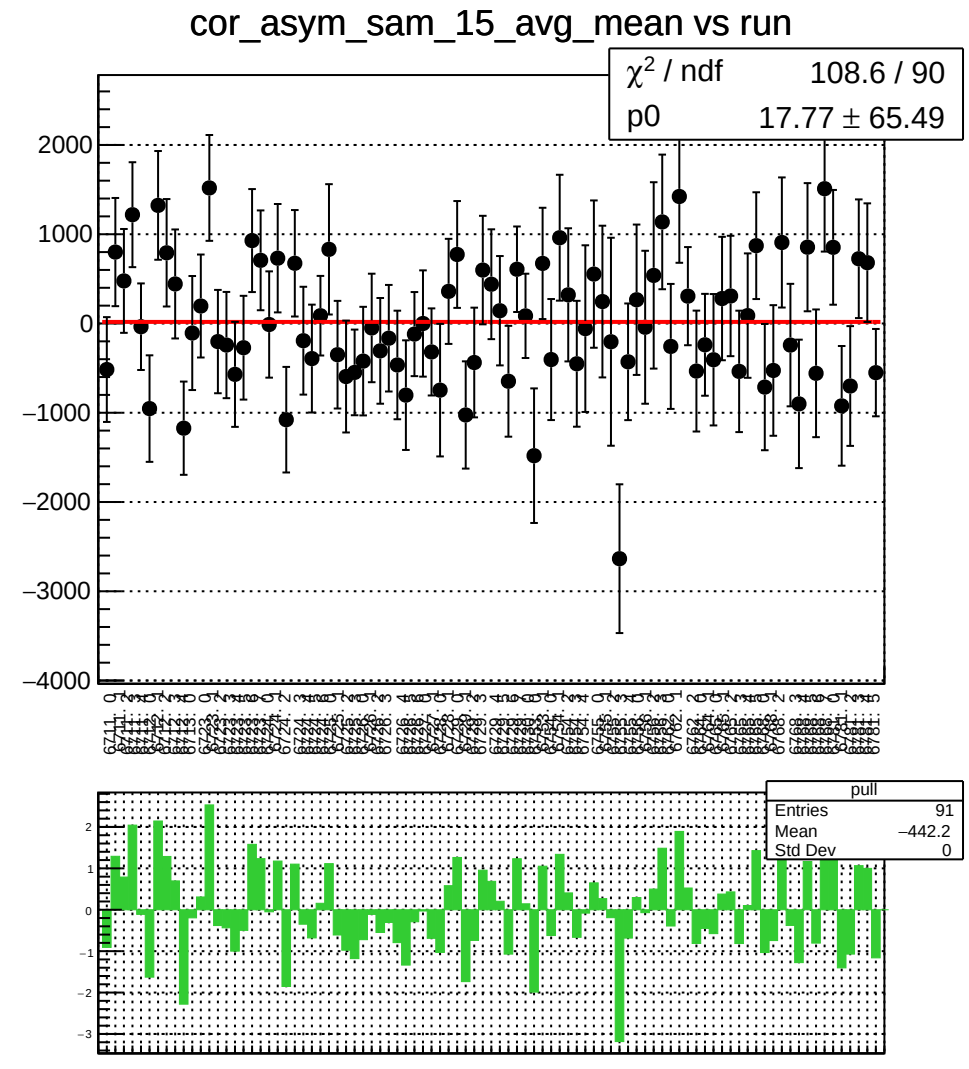

pull1D
Entries 91
Mean 0.002216
Std Dev 1.092

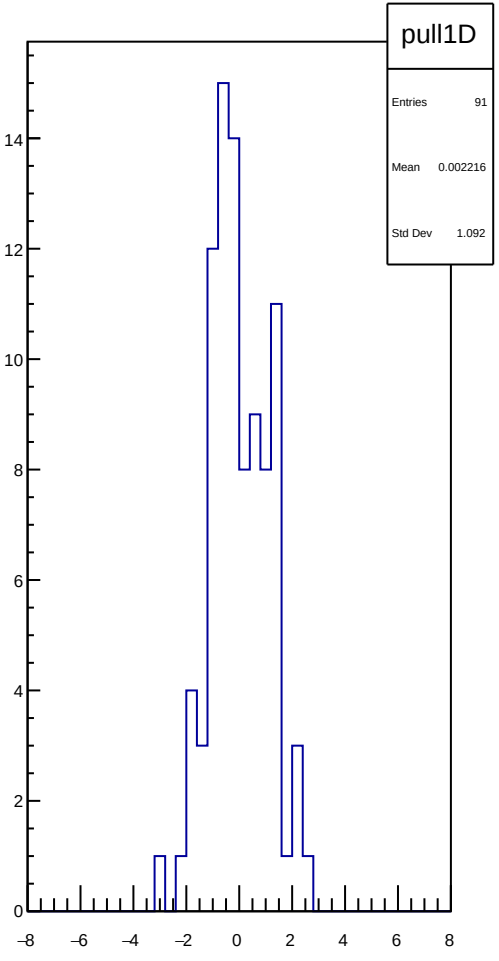

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 2.796e+04 / 90
p0 61.72 ± 0.04631
110
100
90
80
70
60
50

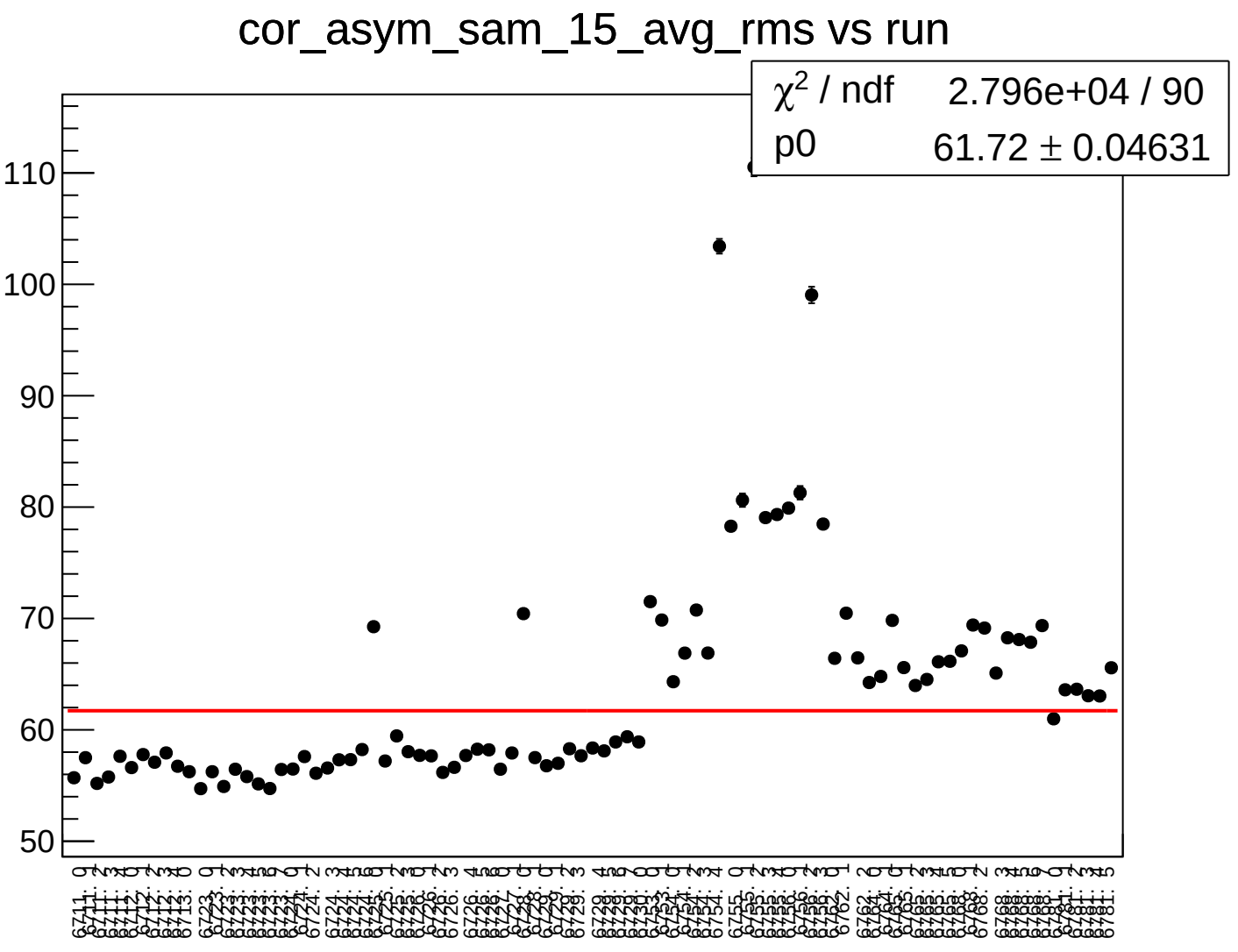

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 92.01 / 90
p0 −422 ± 348.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −501.4
Std Dev 0
3
2
1
0
−1
−2
−3

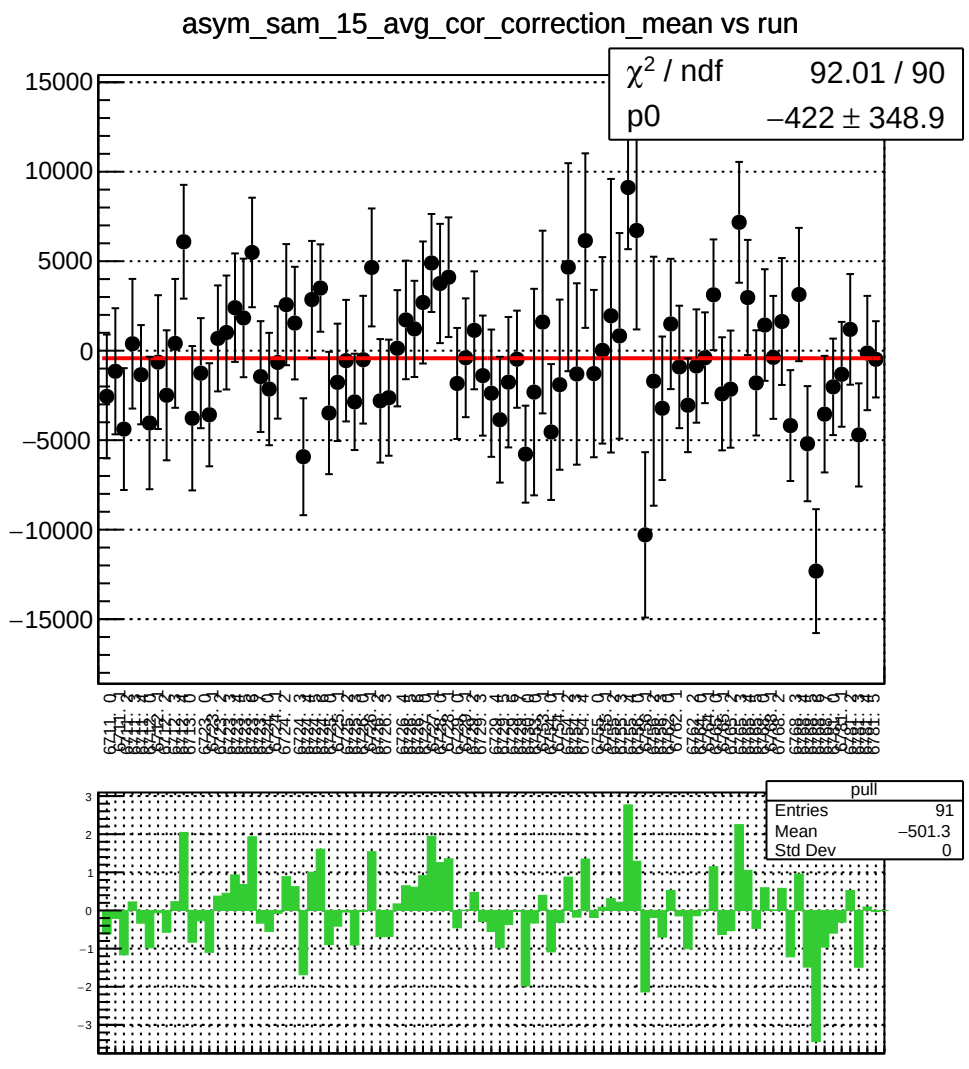

pull1D
Entries 91
Mean 0.004157
Std Dev 1.006
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

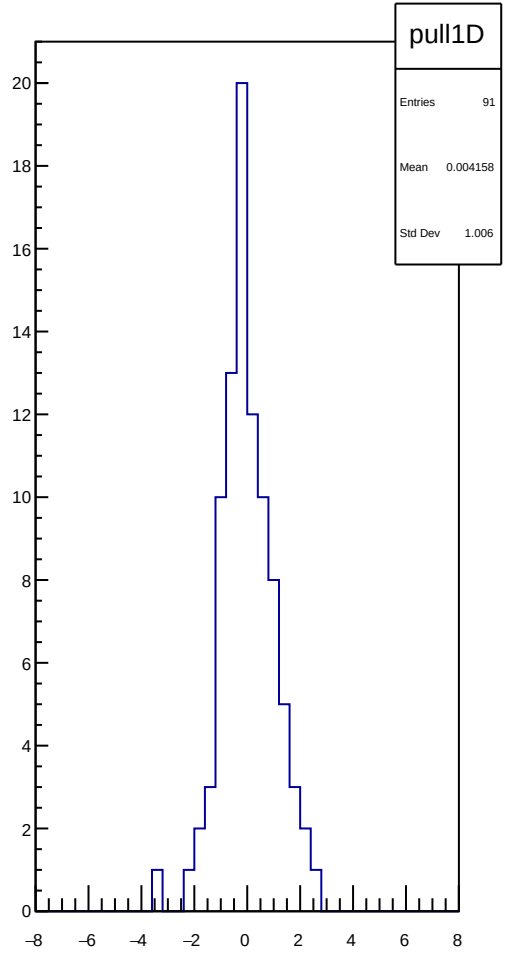

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 4.979e+04 / 90
p0 326.8 ± 0.2467
700
600
500
400
300


cor_asym_sam_15_avg_mean vs run
χ² / ndf 108.6 / 90
p0 17.77 ± 65.49
pull
Entries 91
Mean −442.2
Std Dev 0


pull1D
Entries 91
Mean 0.002216
Std Dev 1.092


cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 2.796e+04 / 90
p0 61.72 ± 0.04631
110
100
90
80
70
60
50


asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 92.01 / 90
p0 −422 ± 348.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −501.3
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean 0.004158
Std Dev 1.006
20
18
16
14
12
10
8
6
4
2
0
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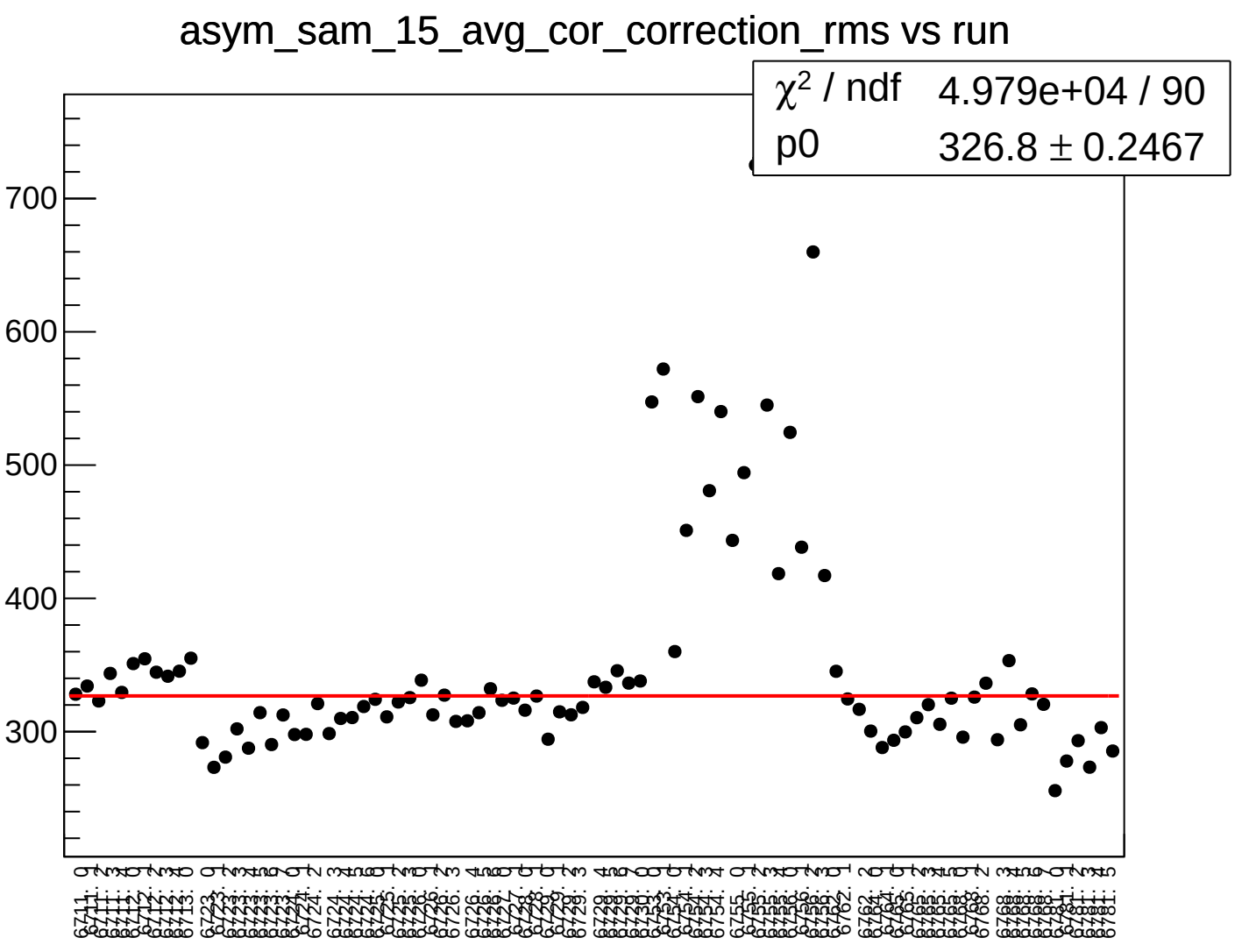
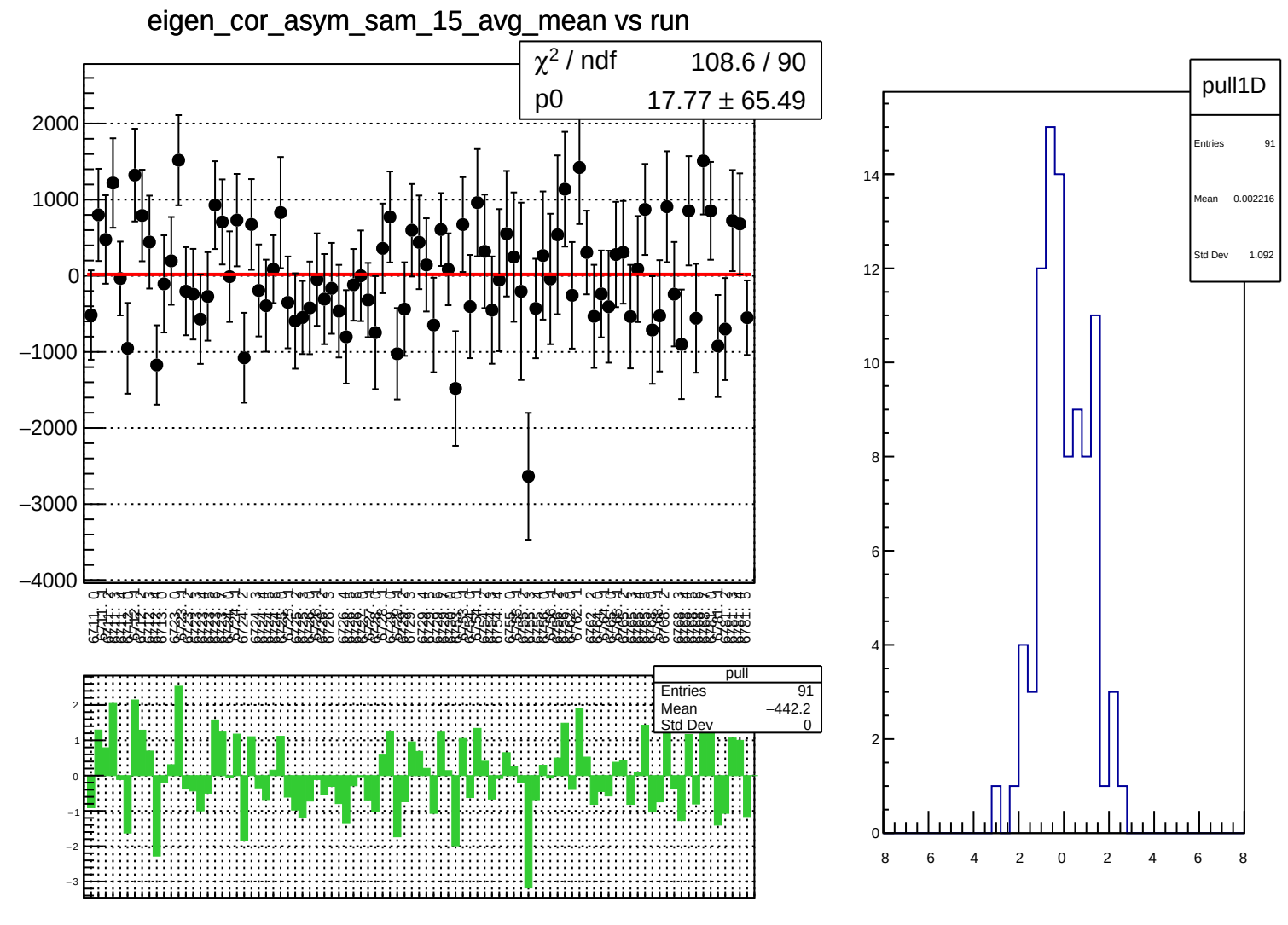
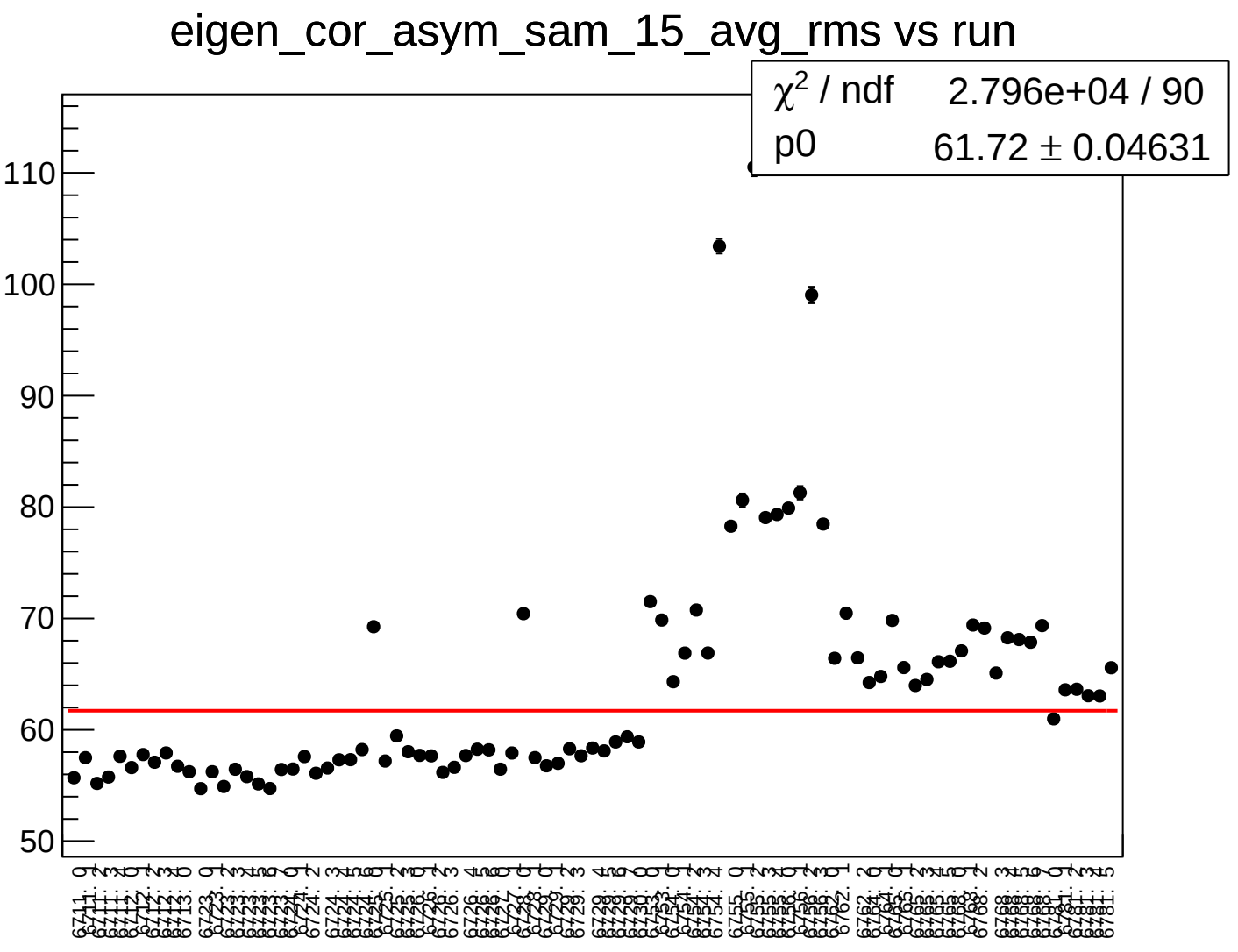
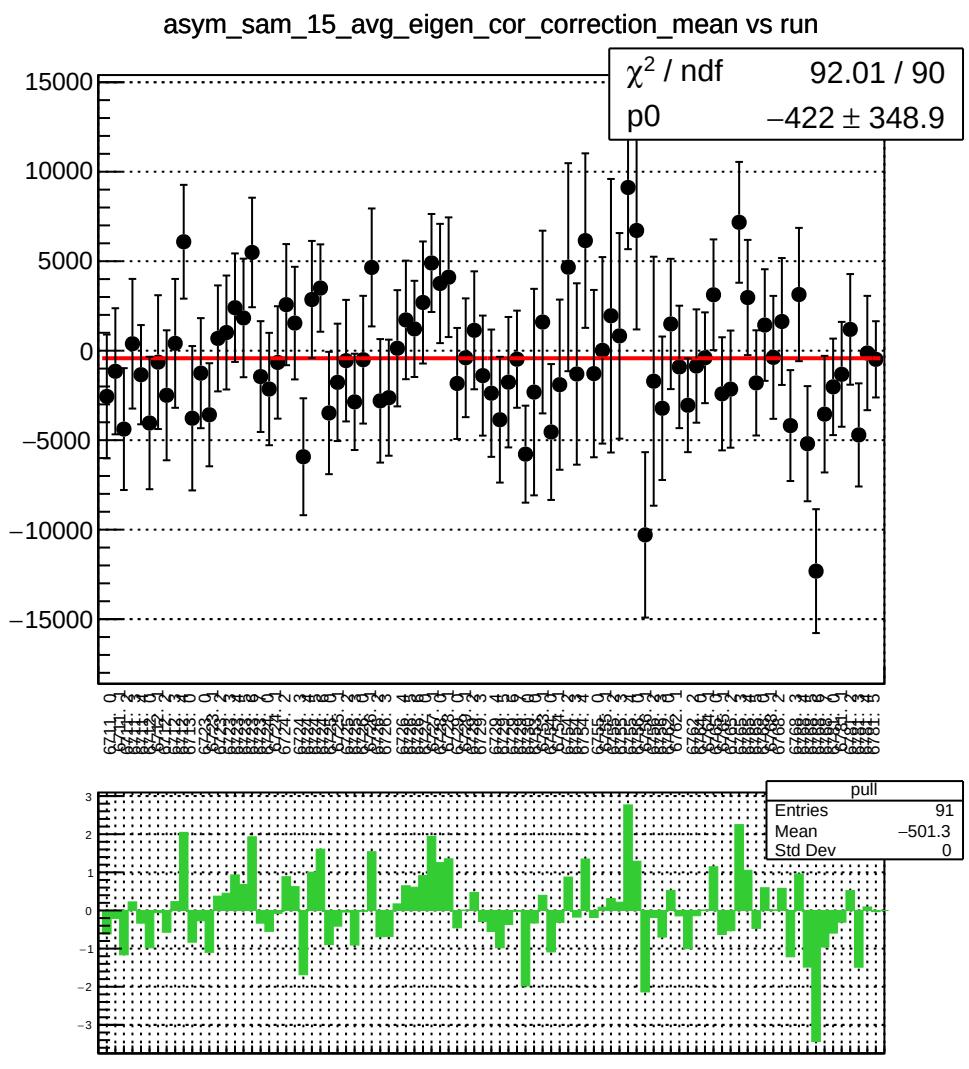
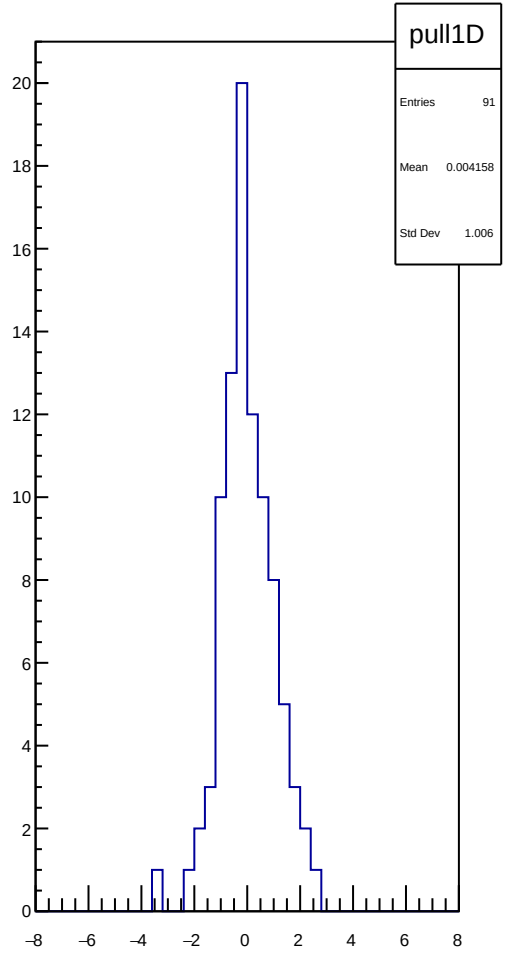
0
2
4
6
8

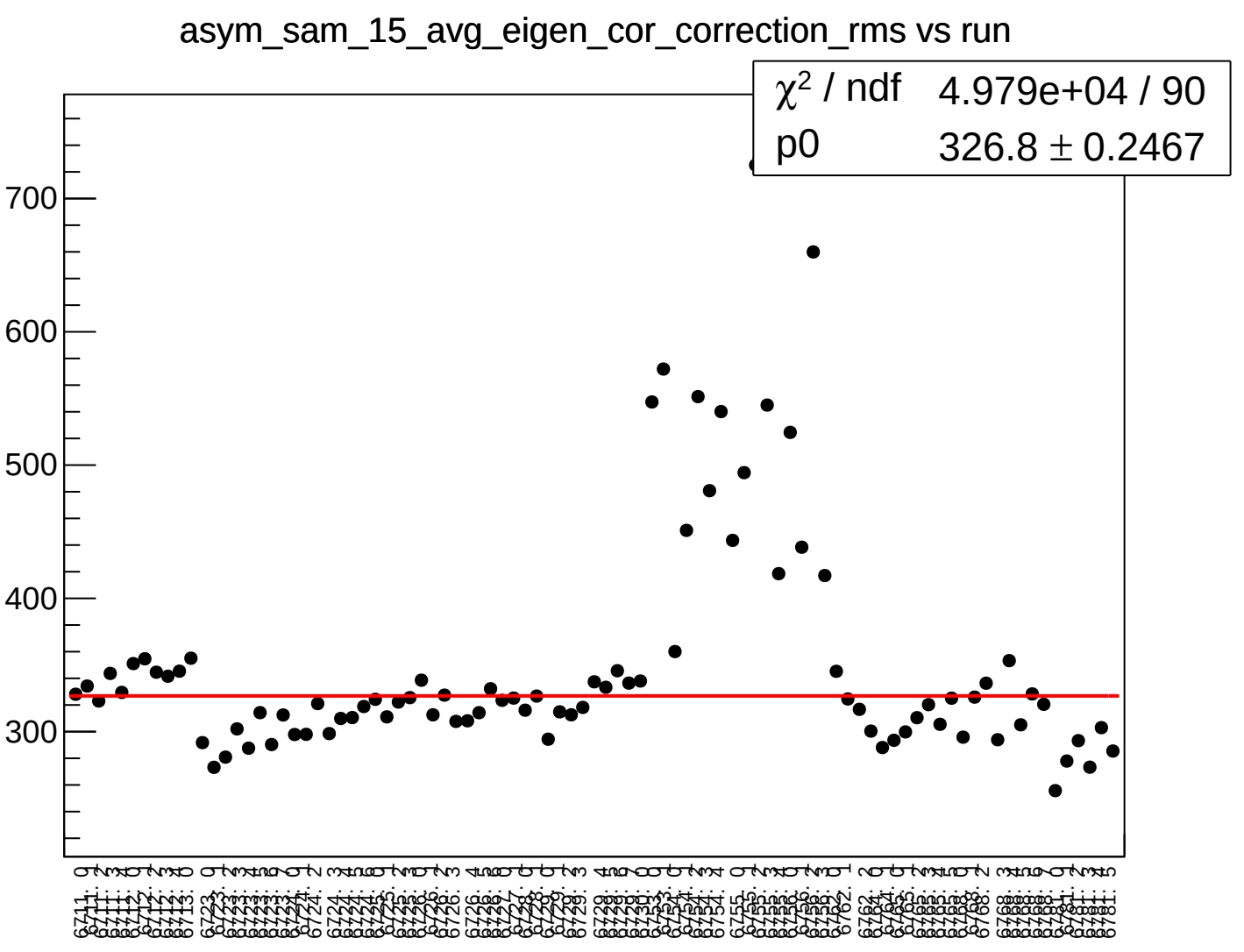

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 4.979e+04 / 90
p0 326.8 ± 0.2467
700
600
500
400
300

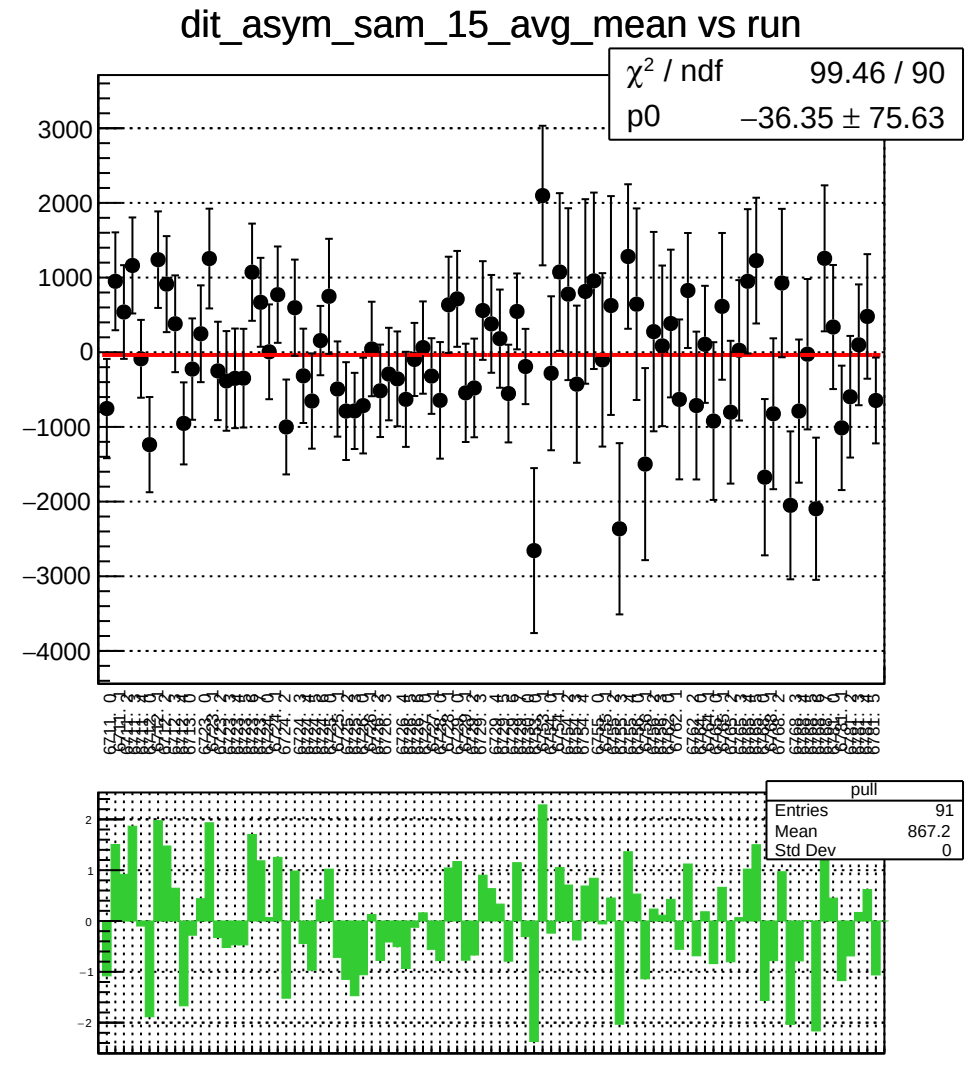

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 108.6 / 90
p0 17.77 ± 65.49
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 91
Mean −442.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.002216
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

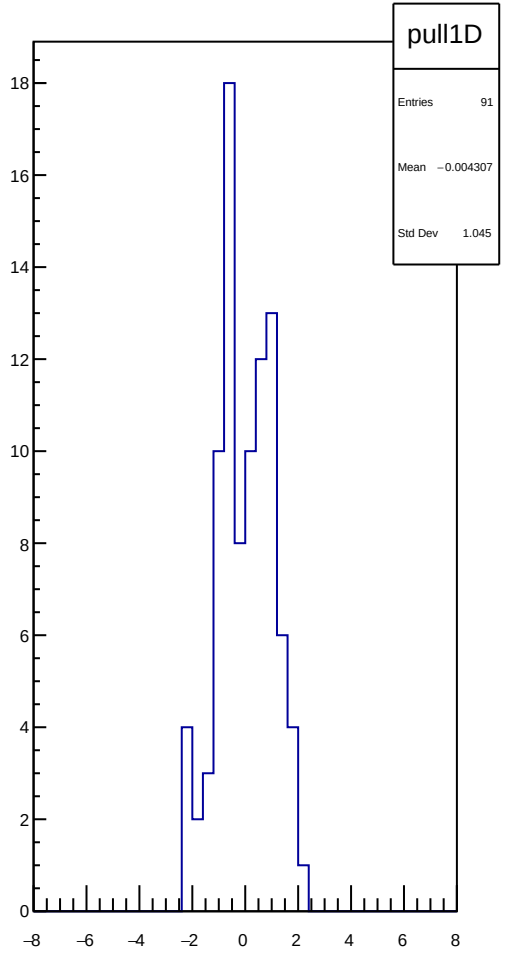

eigen_cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 2.796e+04 / 90
p0 61.72 ± 0.04631
110
100
90
80
70
60
50

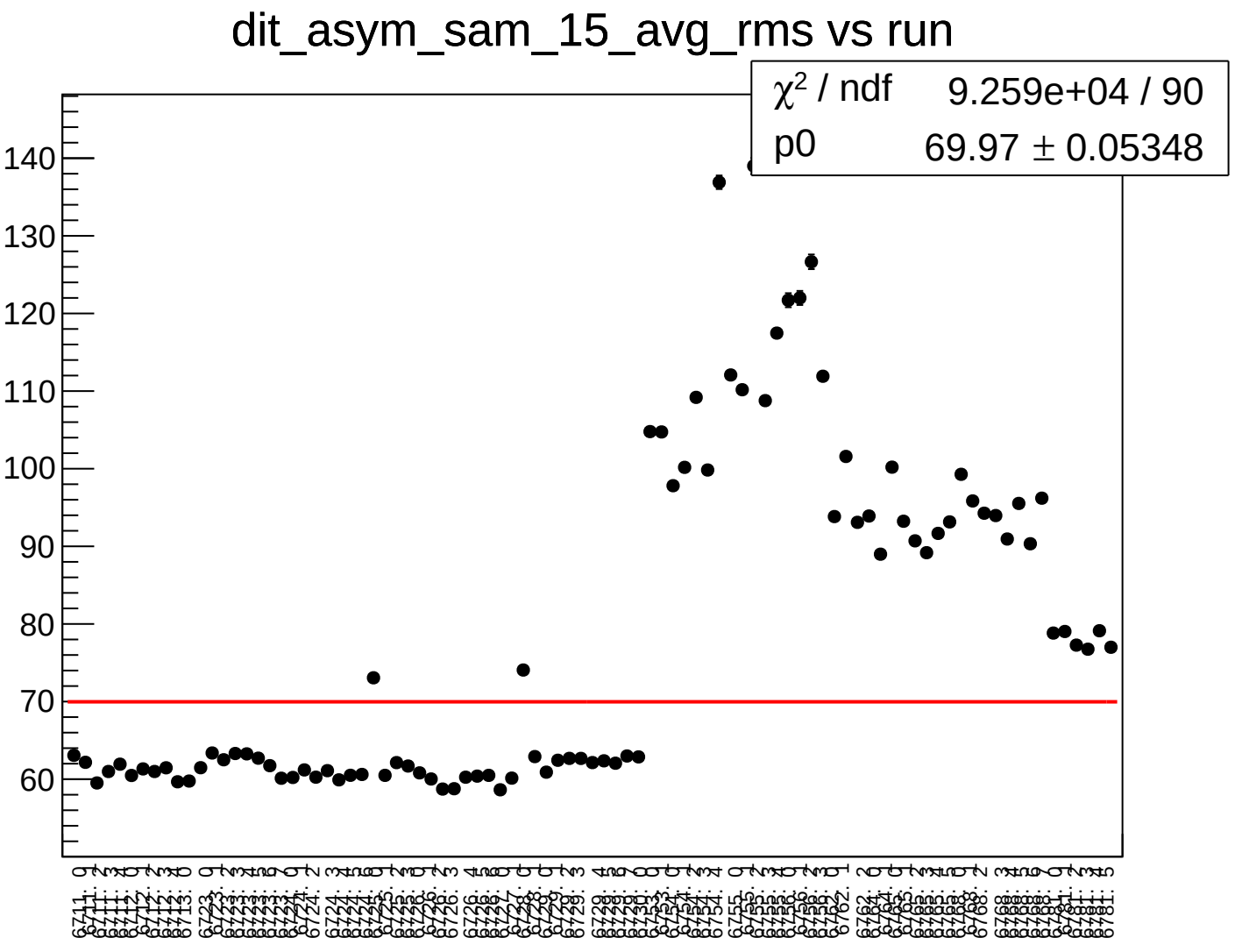

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 92.01 / 90
p0 −422 ± 348.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −501.3
Std Dev 0
3
2
1
0
−1
−2
−3

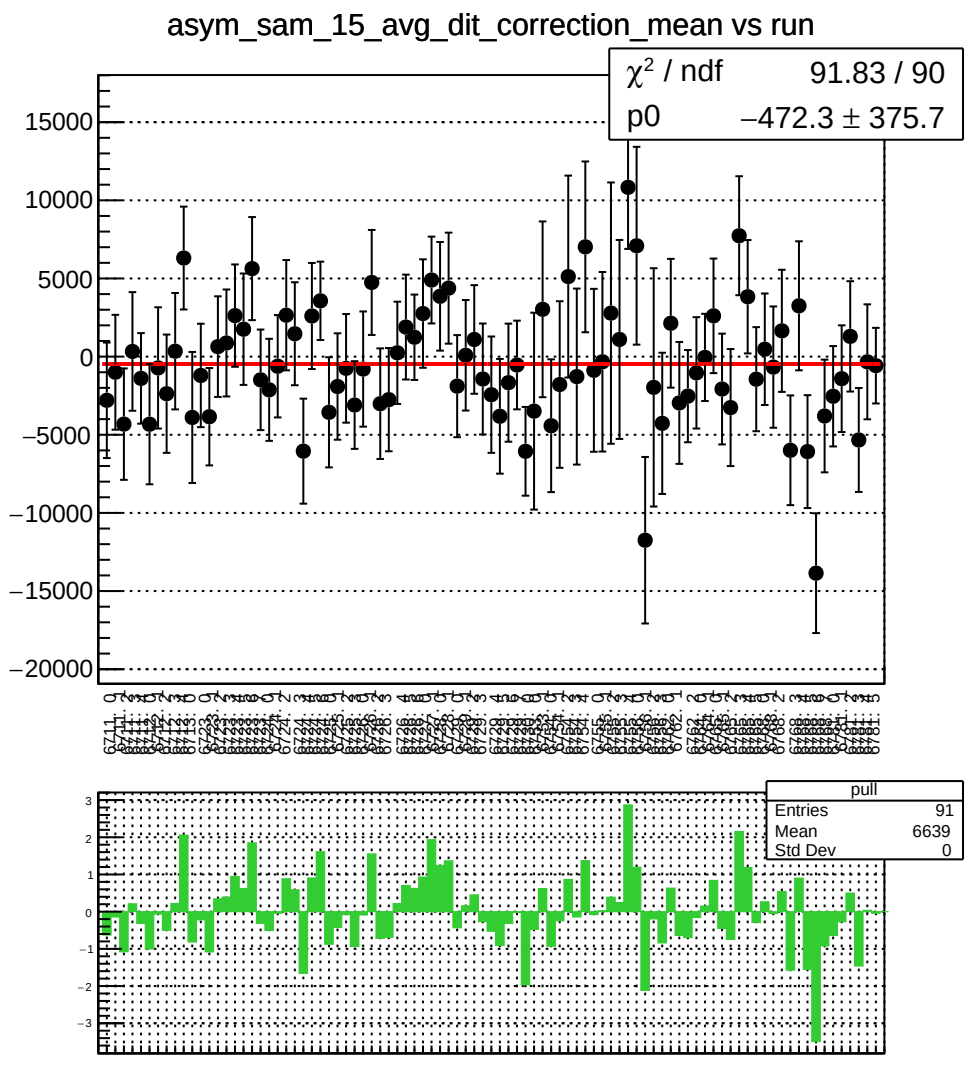

pull1D
Entries 91
Mean 0.004158
Std Dev 1.006
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

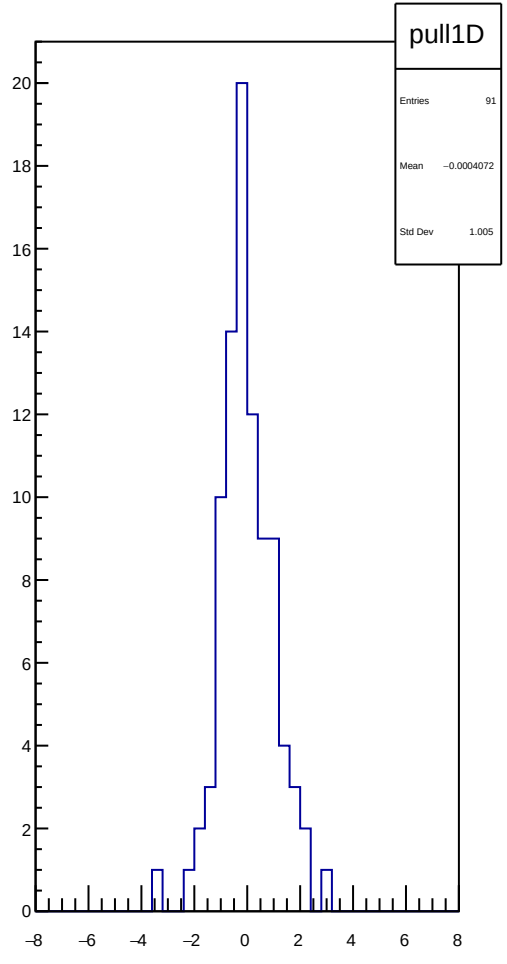

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.979e+04 / 90
p0 326.8 ± 0.2467
700
600
500
400
300

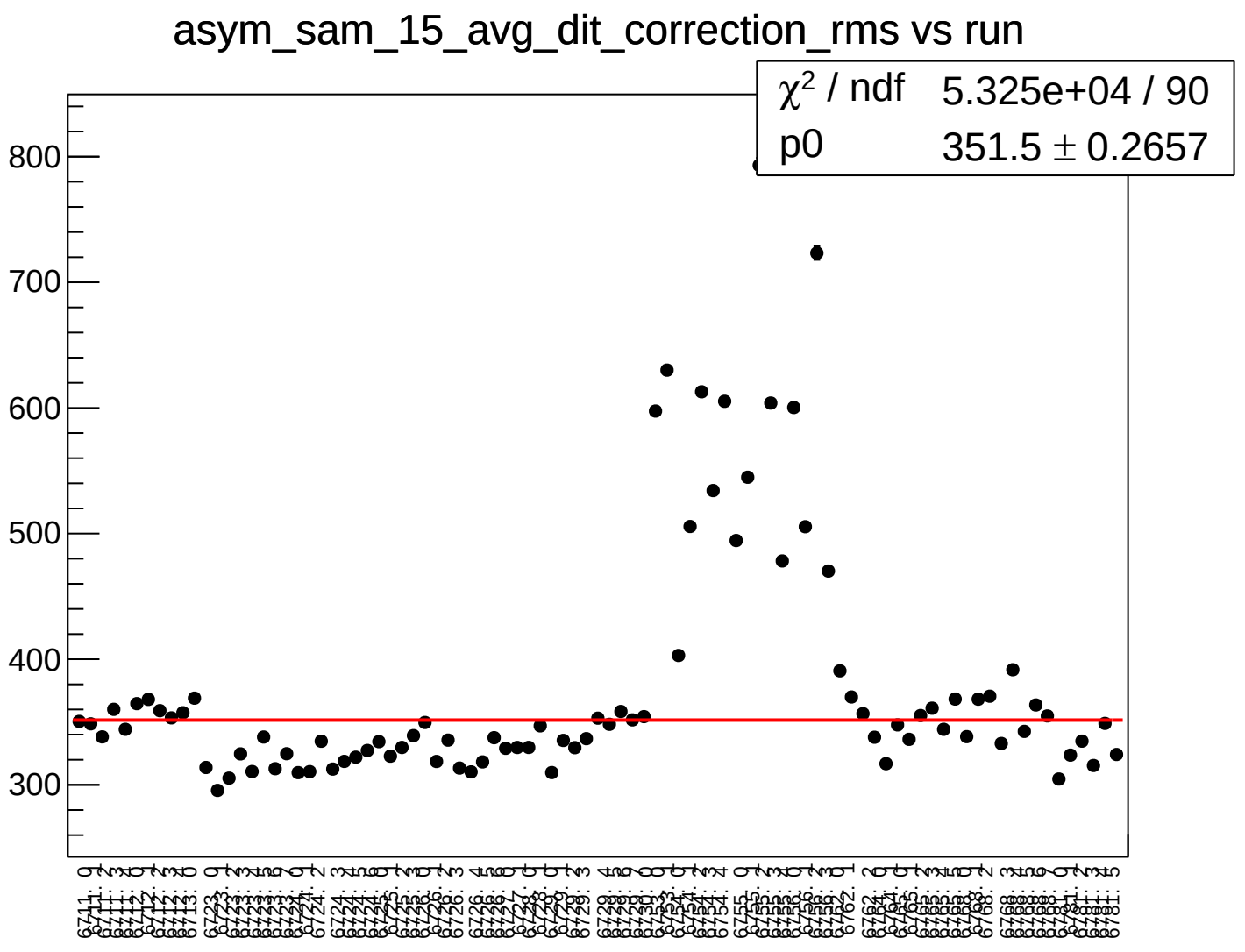

dit_asym_sam_15_avg_mean vs run
χ² / ndf 99.46 / 90
p0 −36.35 ± 75.63
pull
Entries 91
Mean 867.2
Std Dev 0

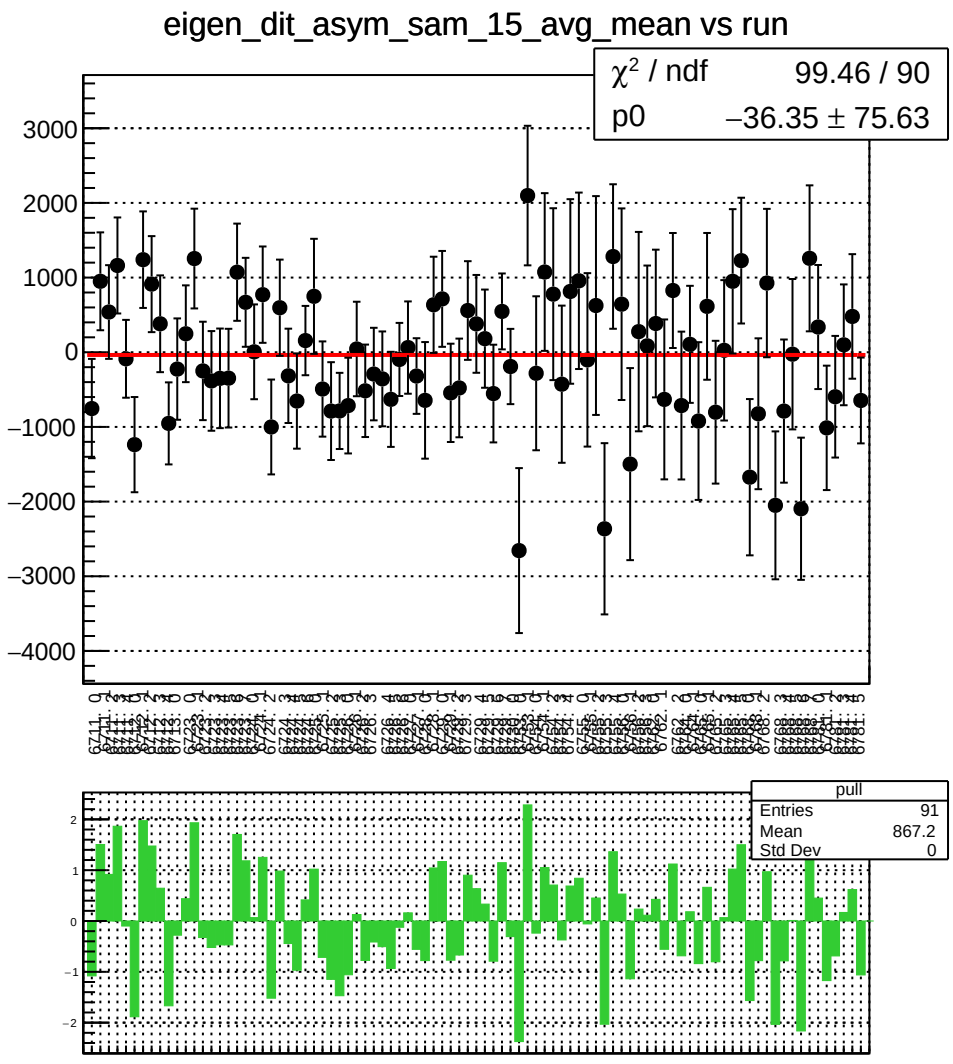

pull1D
Entries 91
Mean −0.004307
Std Dev 1.045

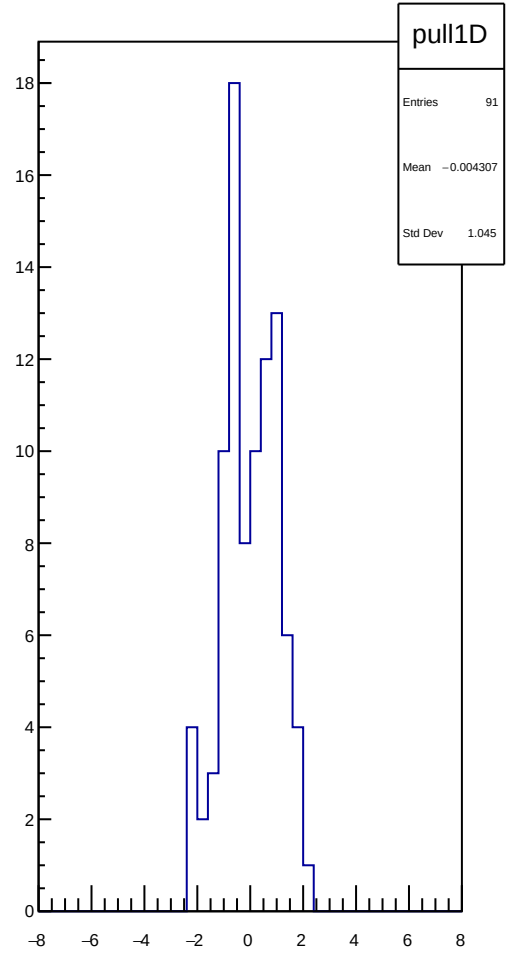

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 9.259e+04 / 90
p0 69.97 ± 0.05348
140
130
120
110
100
90
80
70
60

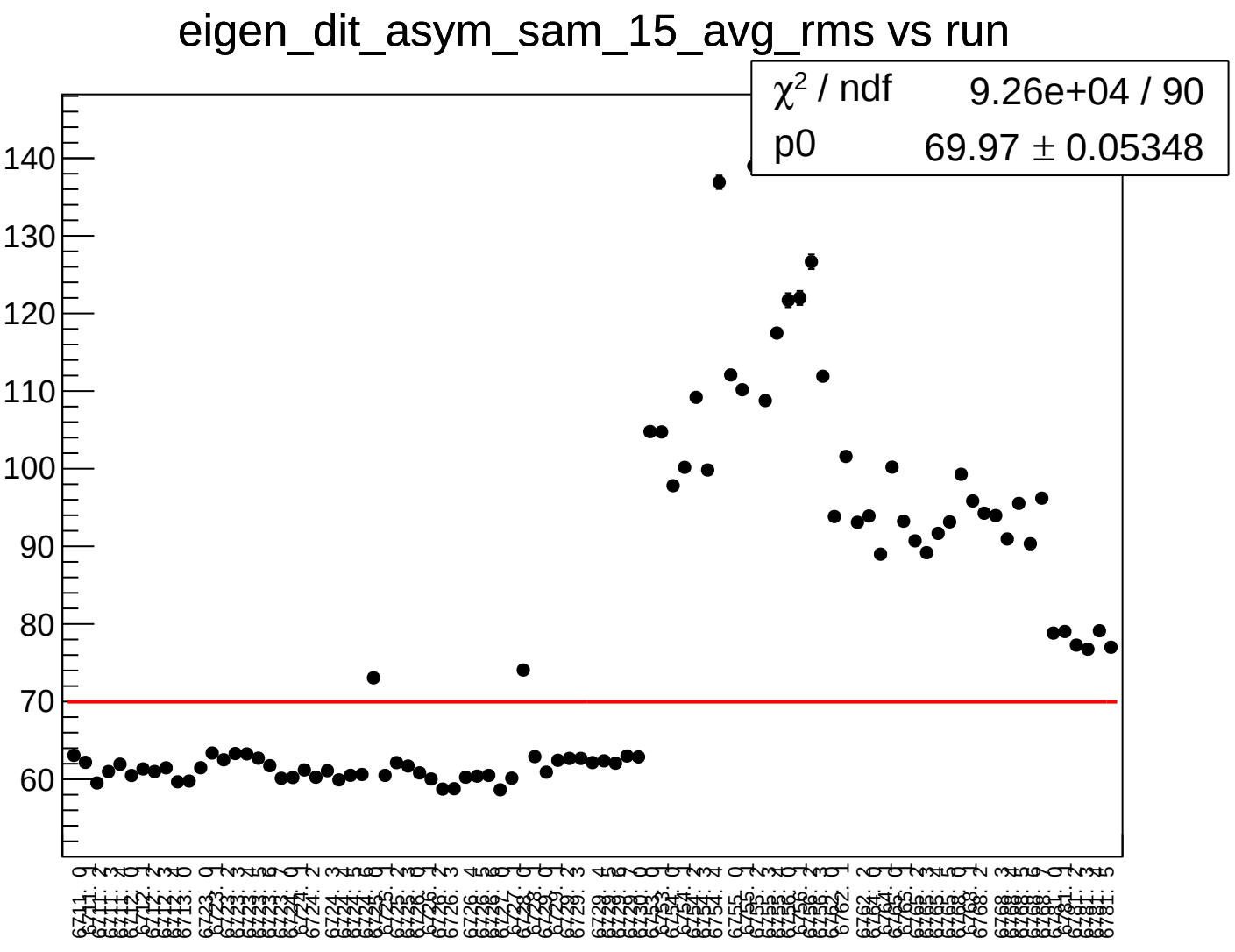

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 91.83 / 90
p0 −472.3 ± 375.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 91
Mean 6639
Std Dev 0
3
2
1
0
−1
−2
−3

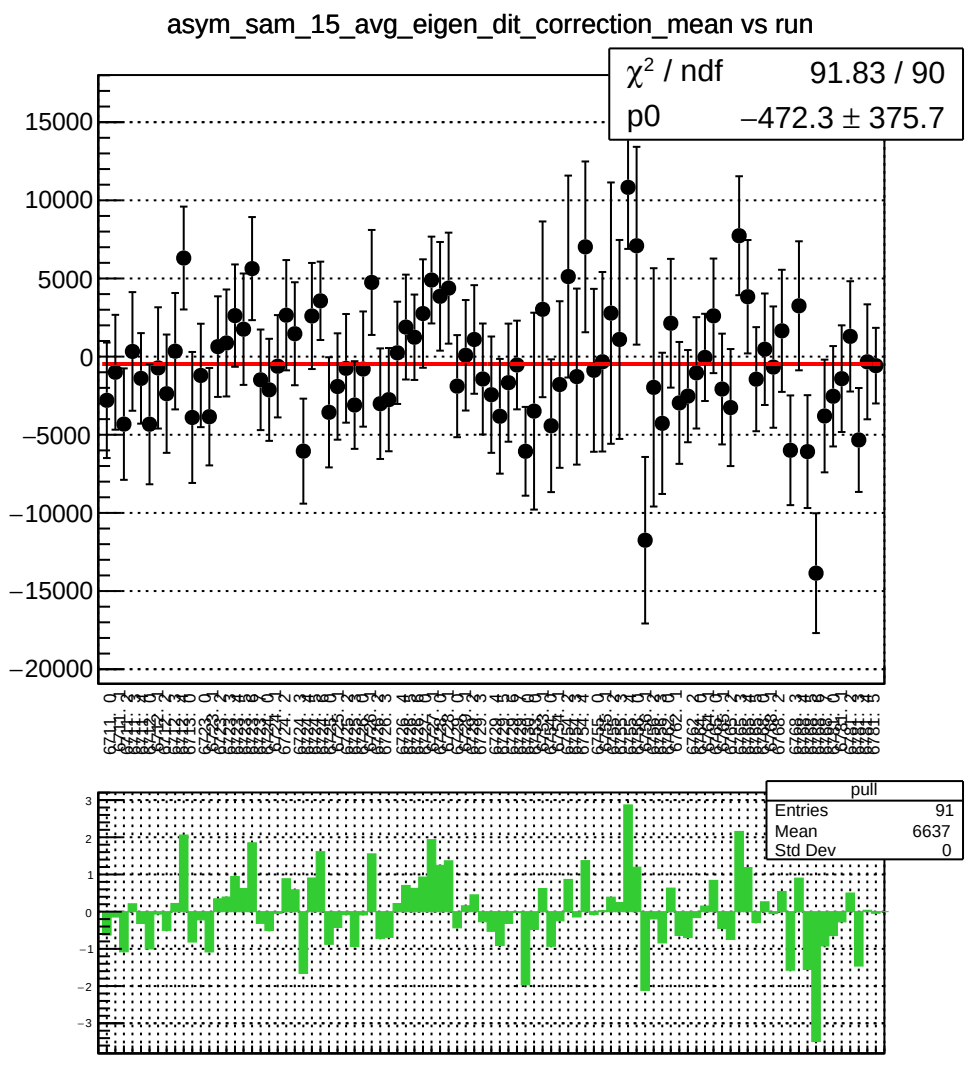

pull1D
Entries 91
Mean −0.0004072
Std Dev 1.005
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

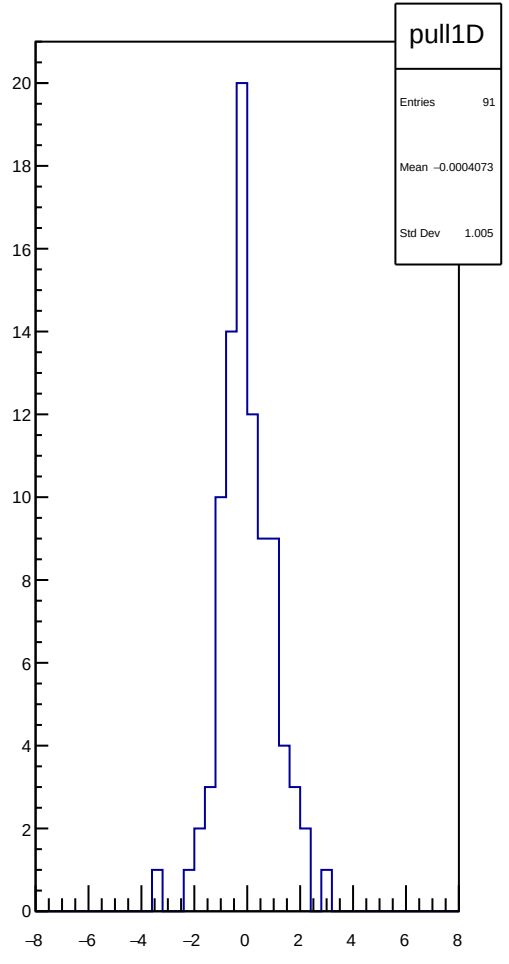

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 5.325e+04 / 90
p0 351.5 ± 0.2657
800
700
600
500
400
300

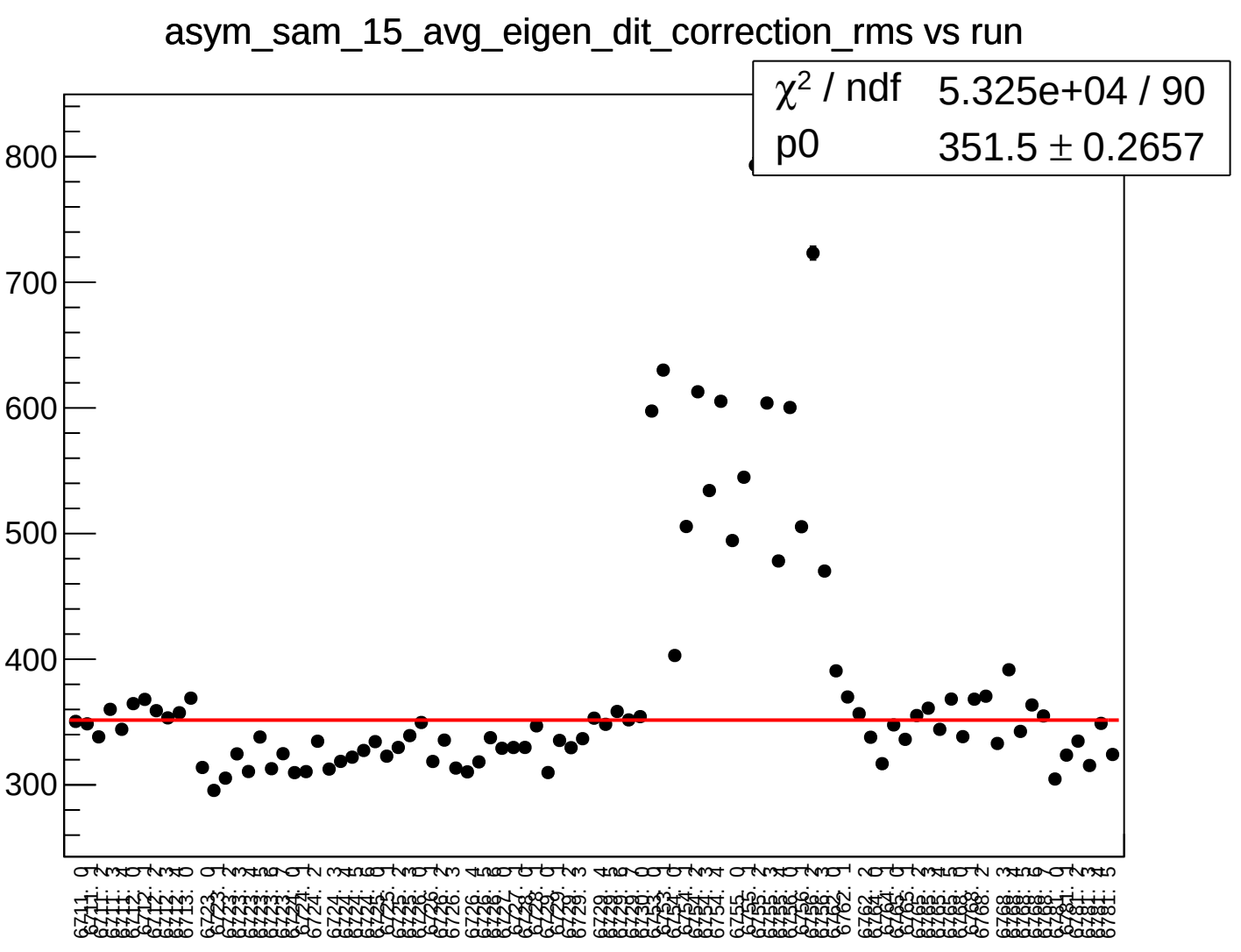

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 99.46 / 90
p0 −36.35 ± 75.63
pull
Entries 91
Mean 867.2
Std Dev 0

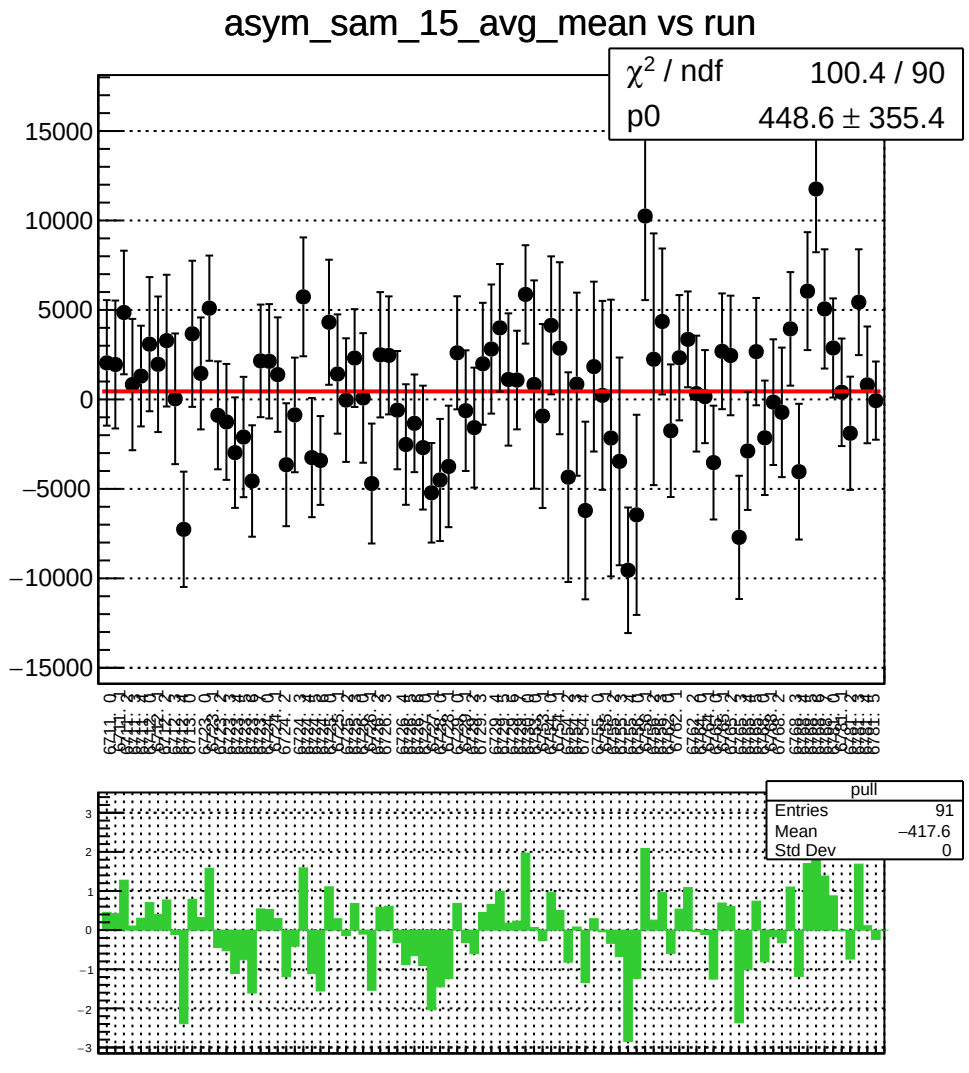

pull1D
Entries 91
Mean −0.004307
Std Dev 1.045

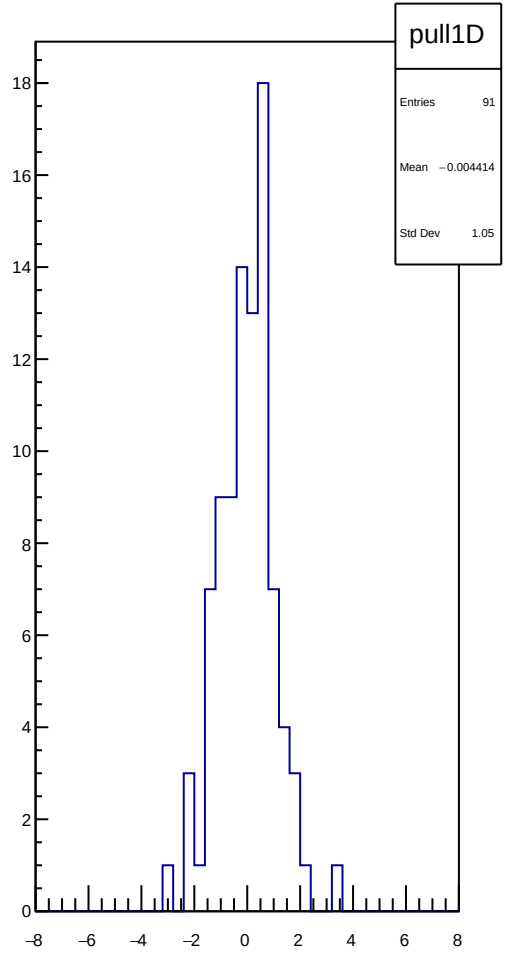

eigen_dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 9.26e+04 / 90
p0 69.97 ± 0.05348
140
130
120
110
100
90
80
70
60

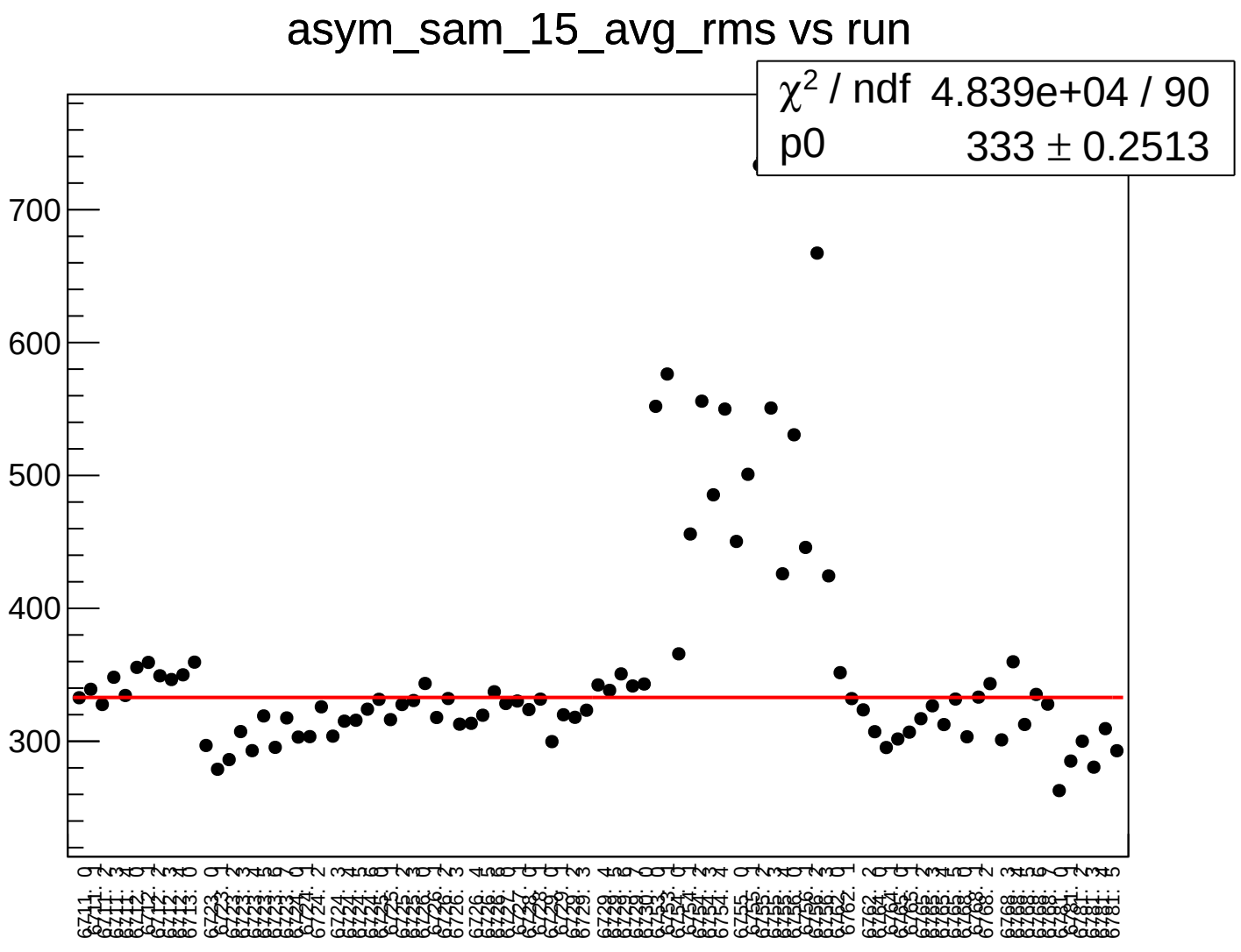

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 91.83 / 90
p0 −472.3 ± 375.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 91
Mean 6637
Std Dev 0
3
2
1
0
−1
−2
−3

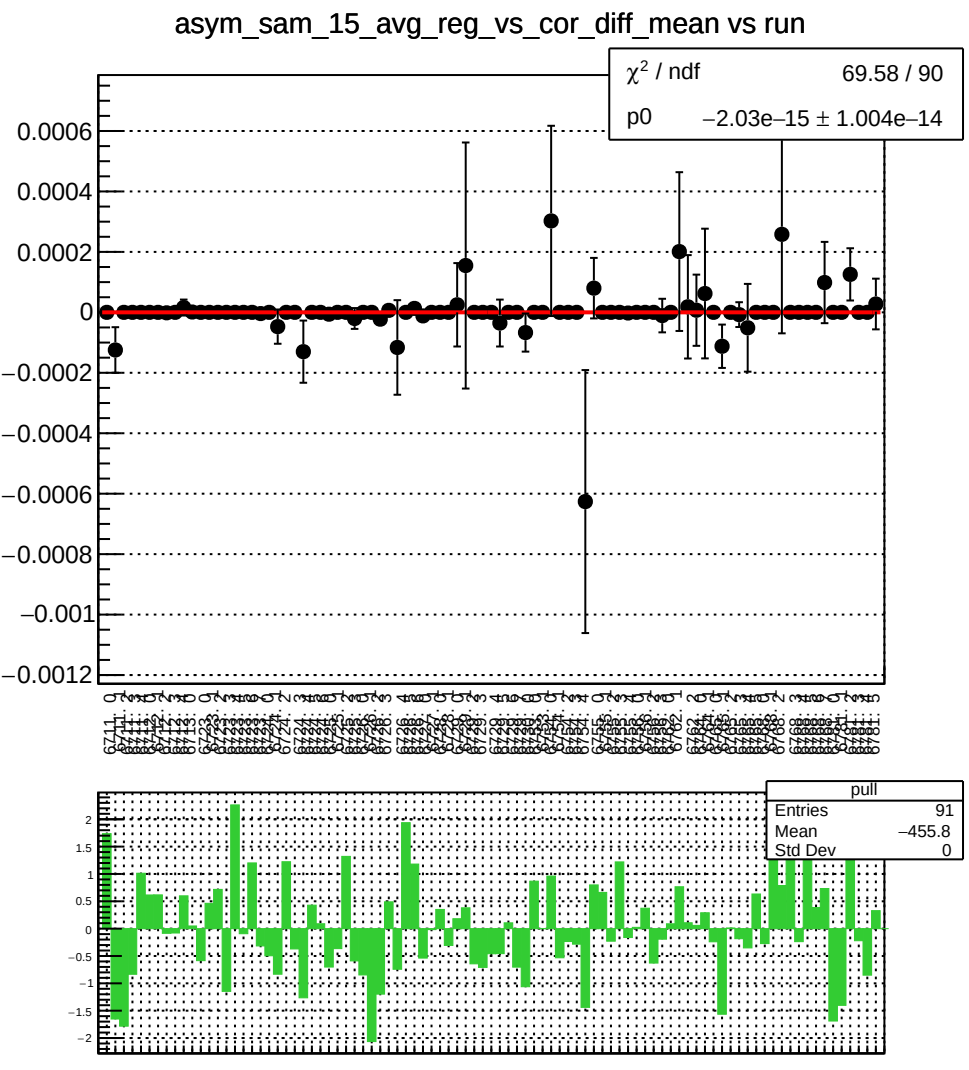

pull1D
Entries 91
Mean −0.0004073
Std Dev 1.005
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

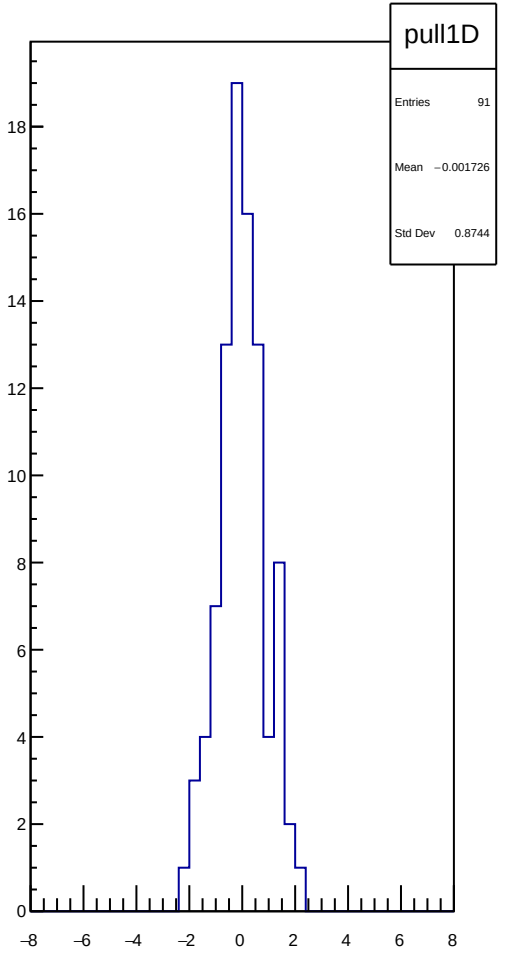

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.325e+04 / 90
p0 351.5 ± 0.2657
800
700
600
500
400
300

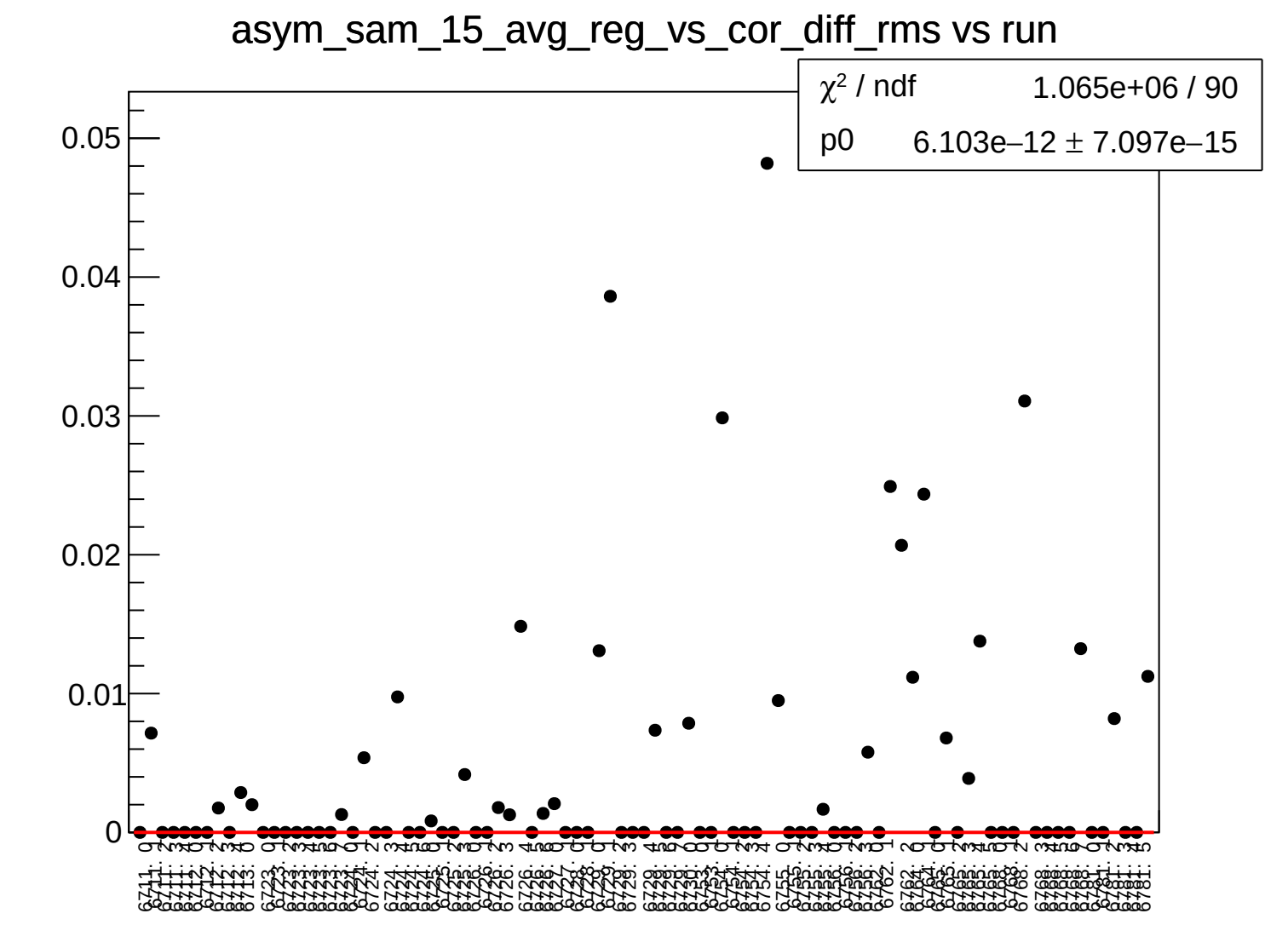

asym_sam_15_avg_mean vs run
χ² / ndf 100.4 / 90
p0 448.6 ± 355.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −417.6
Std Dev 0
3
2
1
0
−1
−2
−3

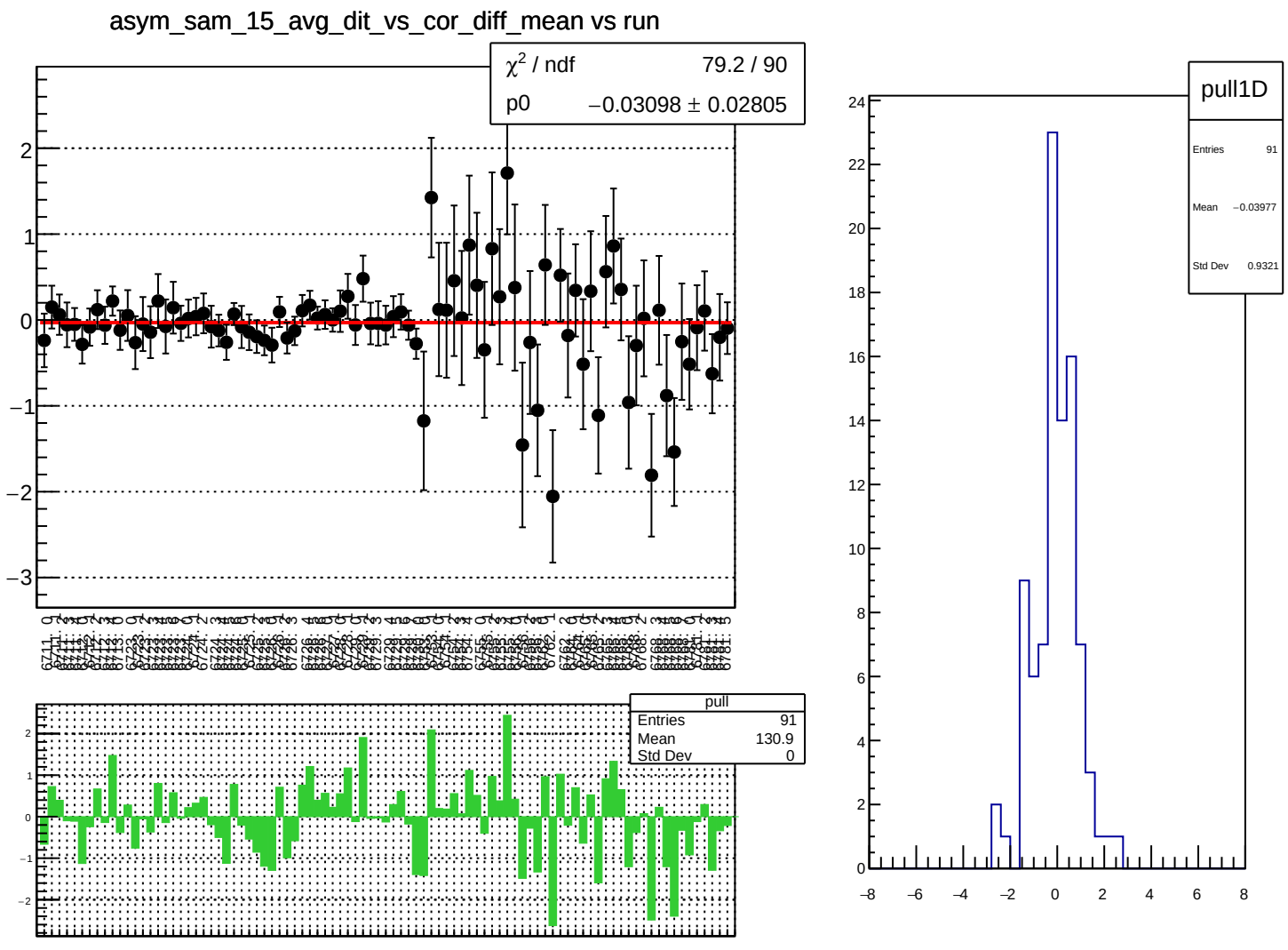

pull1D
Entries 91
Mean −0.004414
Std Dev 1.05
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

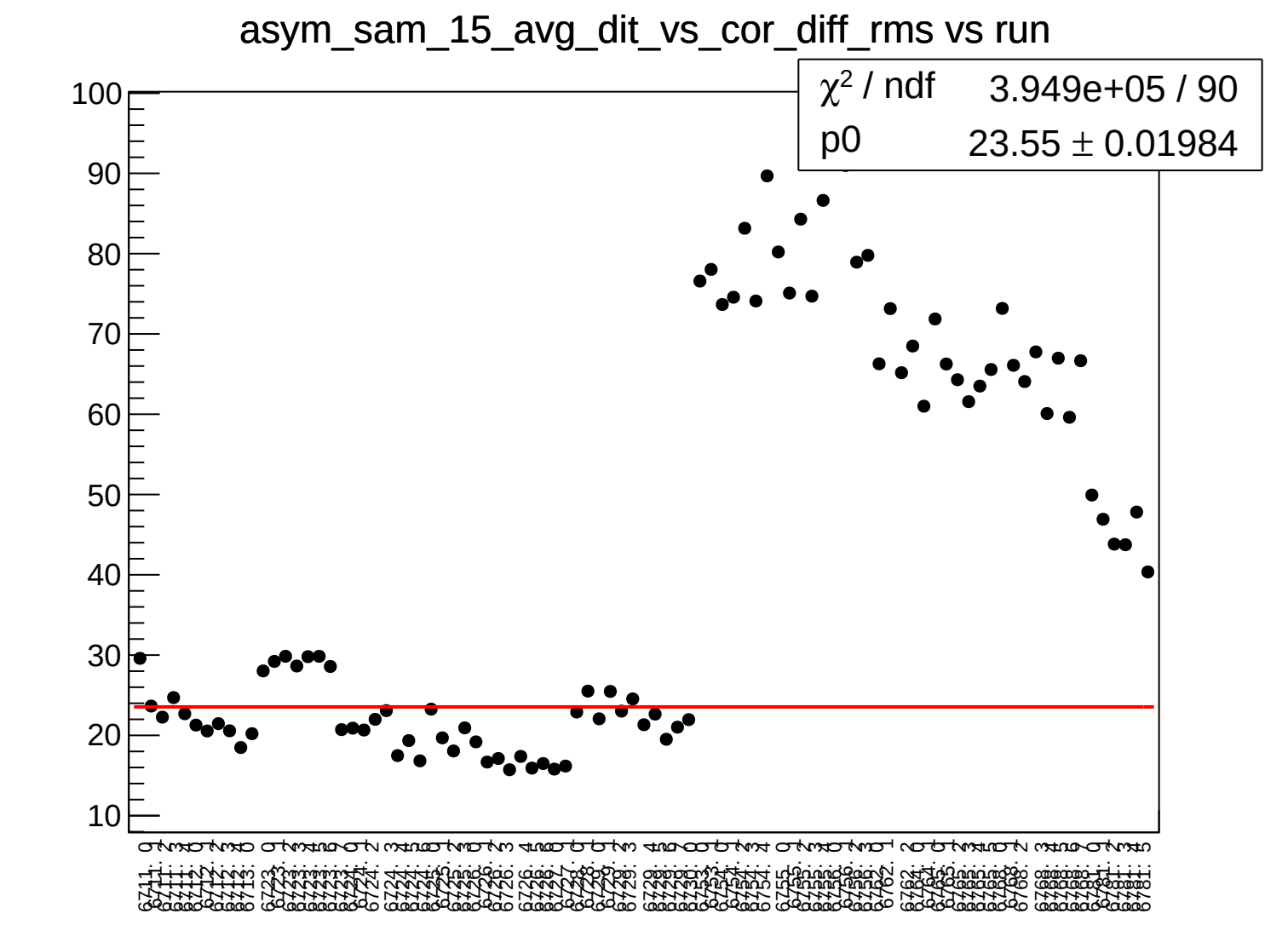

asym_sam_15_avg_rms vs run
χ^2 / ndf 4.839e+04 / 90
p0 333 ± 0.2513
700
600
500
400
300

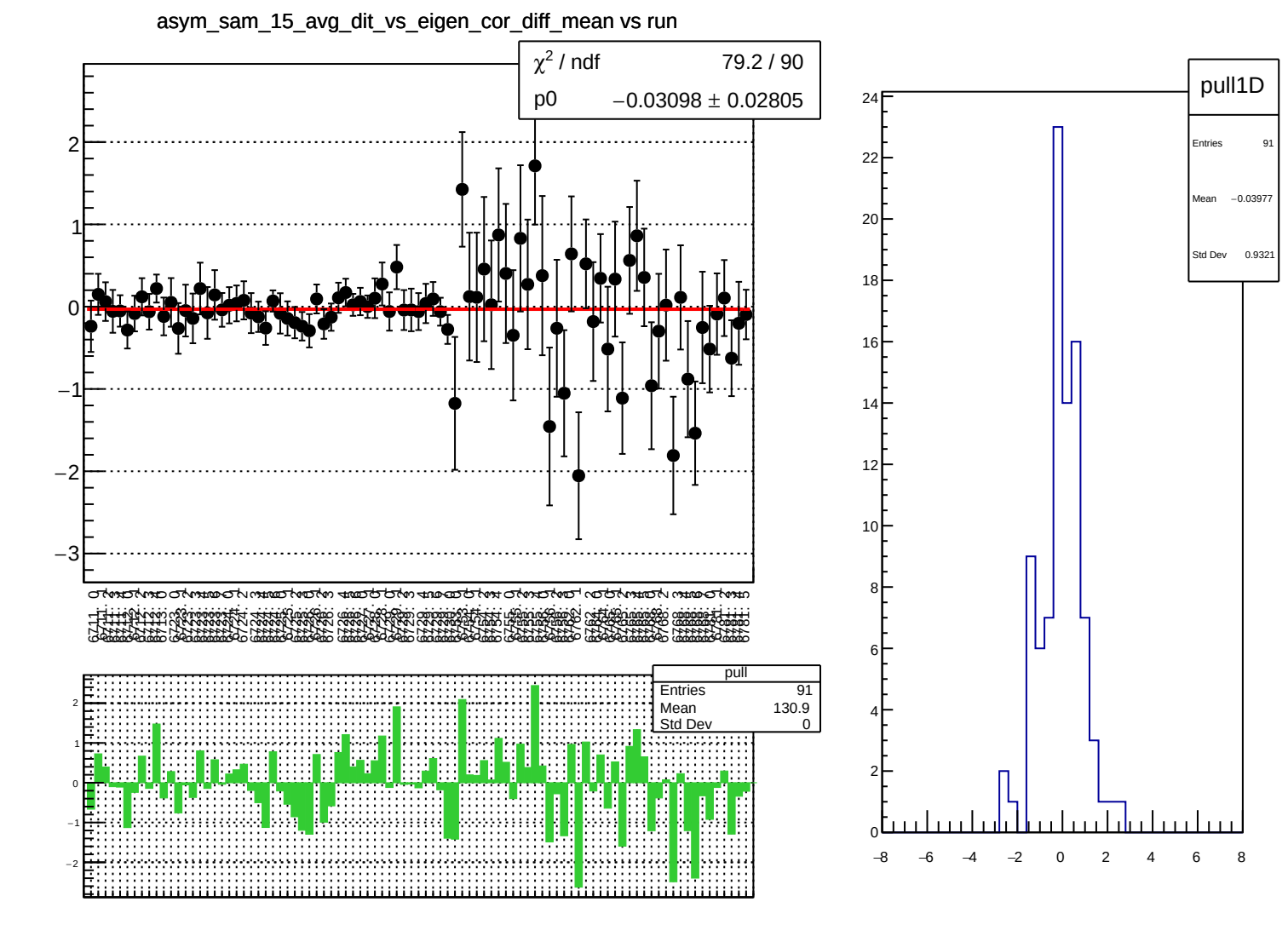

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 69.58 / 90
p0 −2.03e−15 ± 1.004e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 91
Mean −455.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

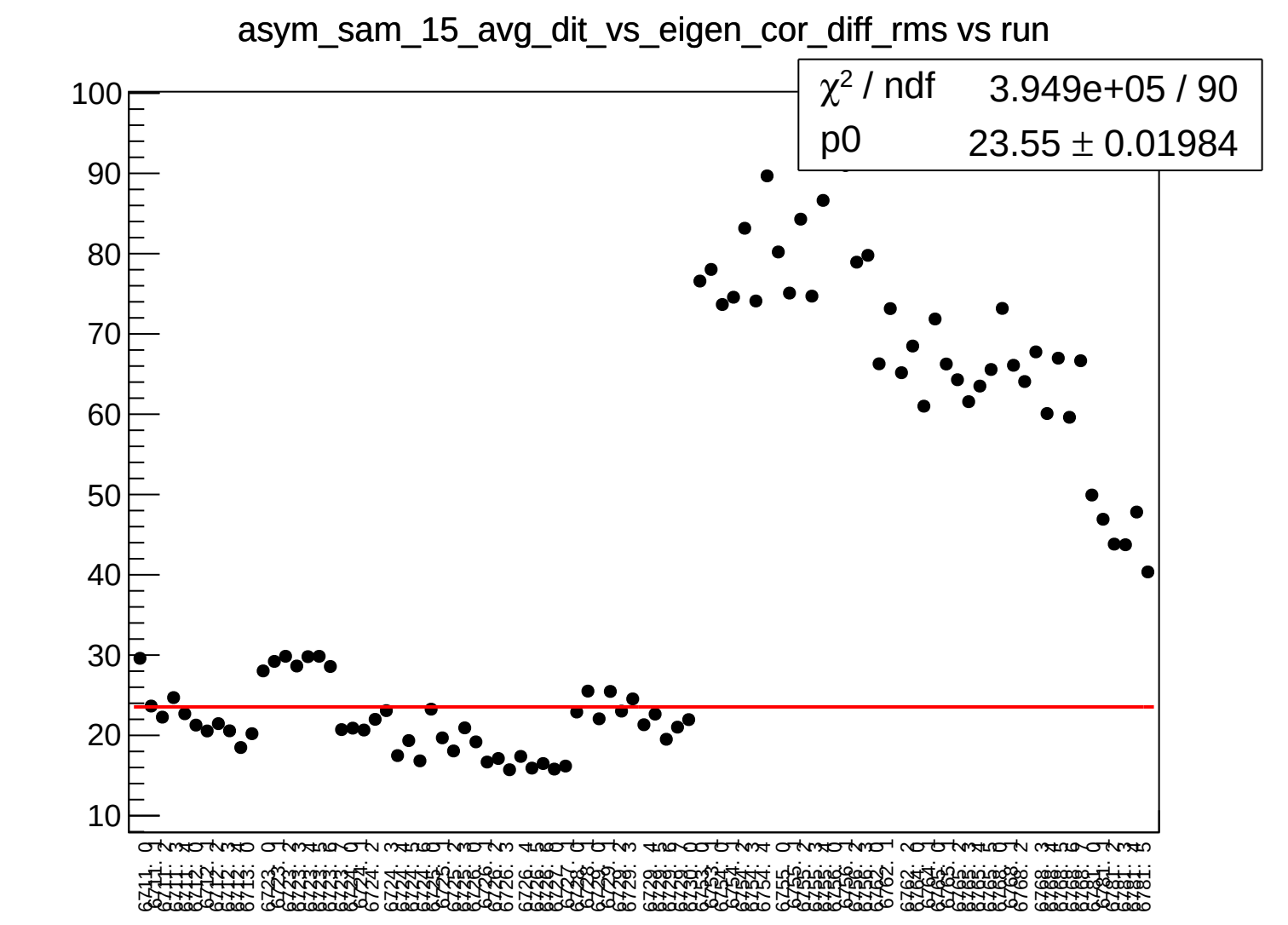

pull1D
Entries 91
Mean −0.001726
Std Dev 0.8744
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

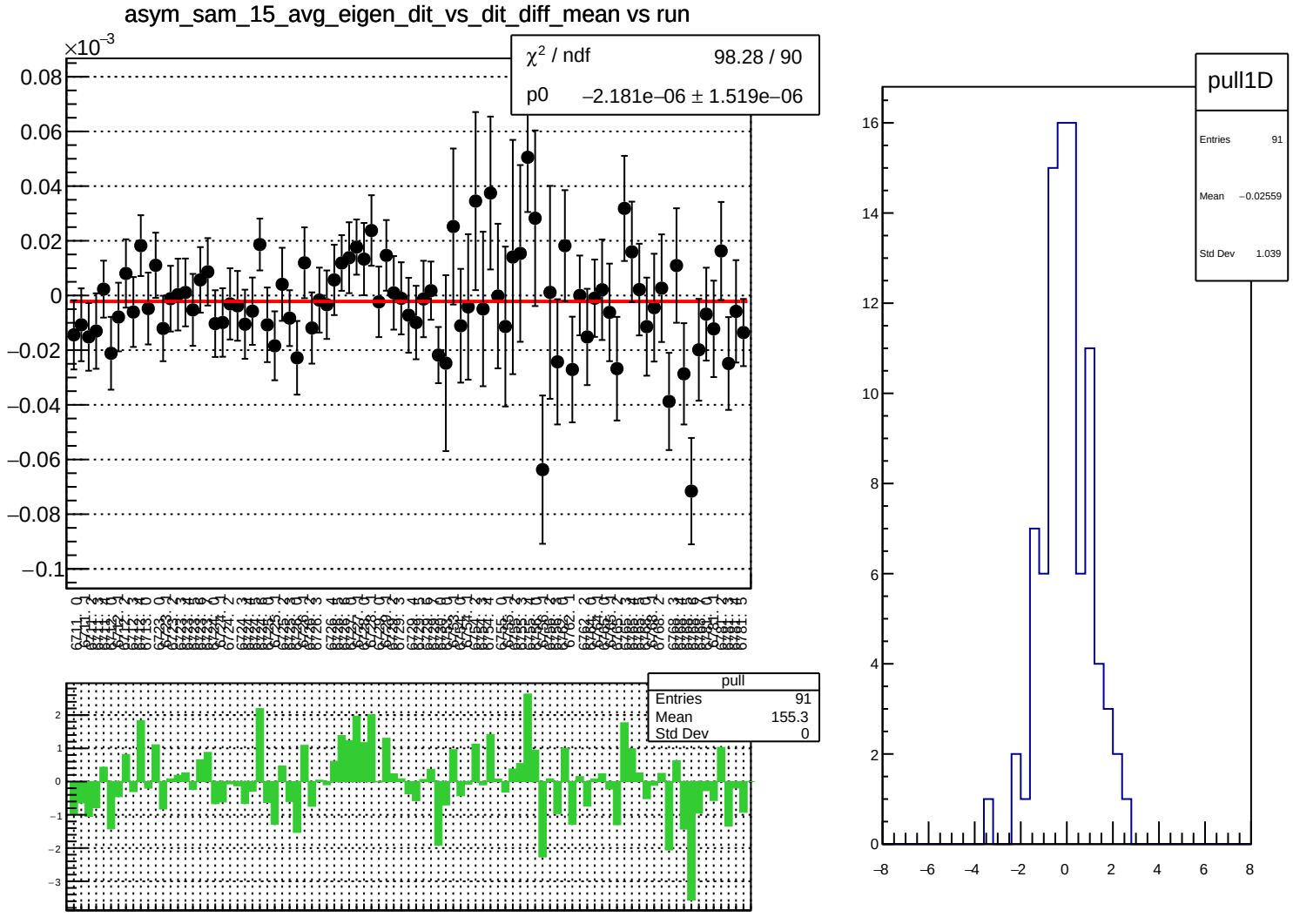

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.065e+06 / 90
p0 6.103e−12 ± 7.097e−15
0.05
0.04
0.03
0.02
0.01
0

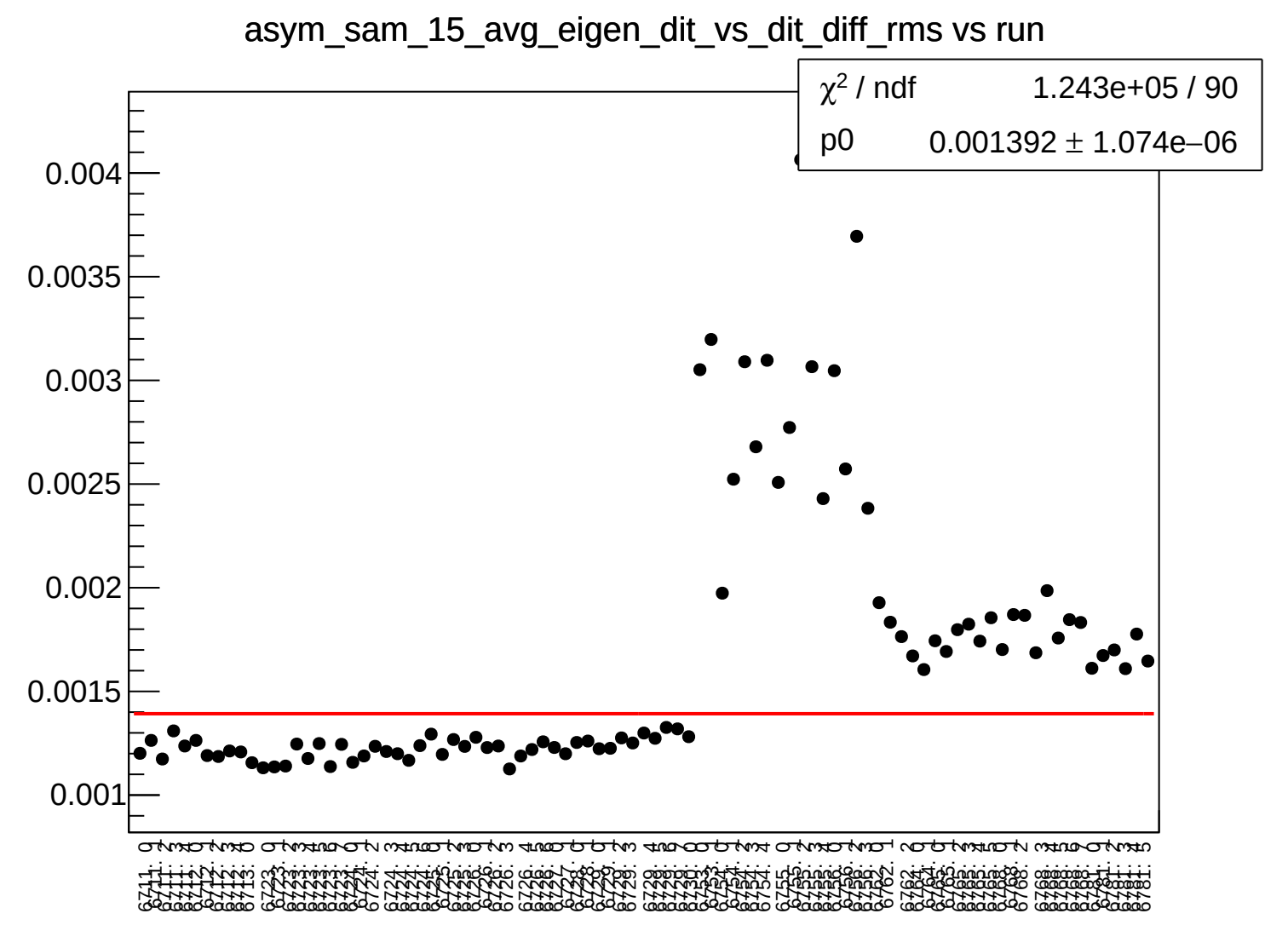

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.2 / 90
p0 −0.03098 ± 0.02805
pull
Entries 91
Mean 130.9
Std Dev 0
pull1D
Entries 91
Mean −0.03977
Std Dev 0.9321

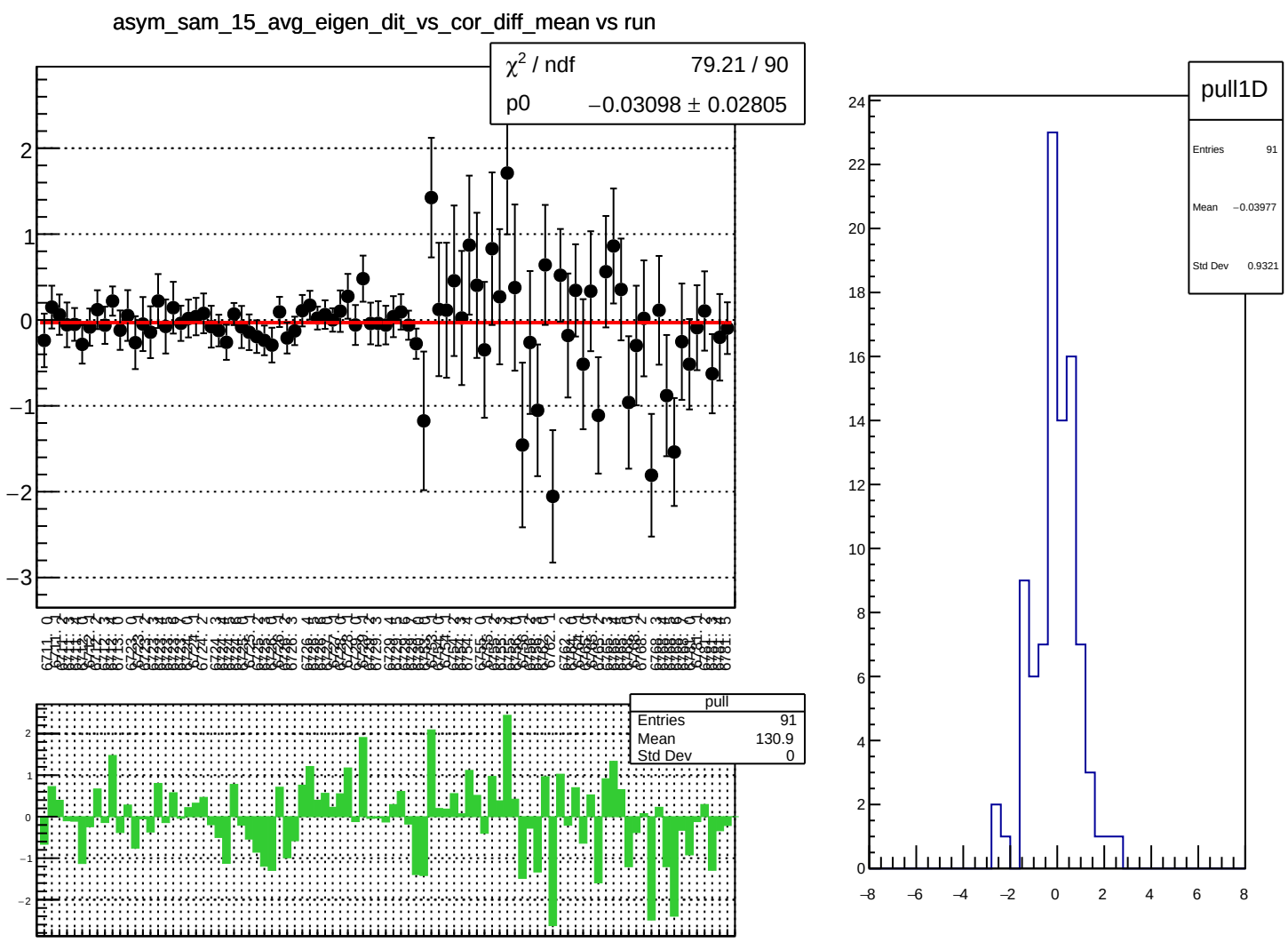

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.949e+05 / 90
p0 23.55 ± 0.01984
100
90
80
70
60
50
40
30
20
10

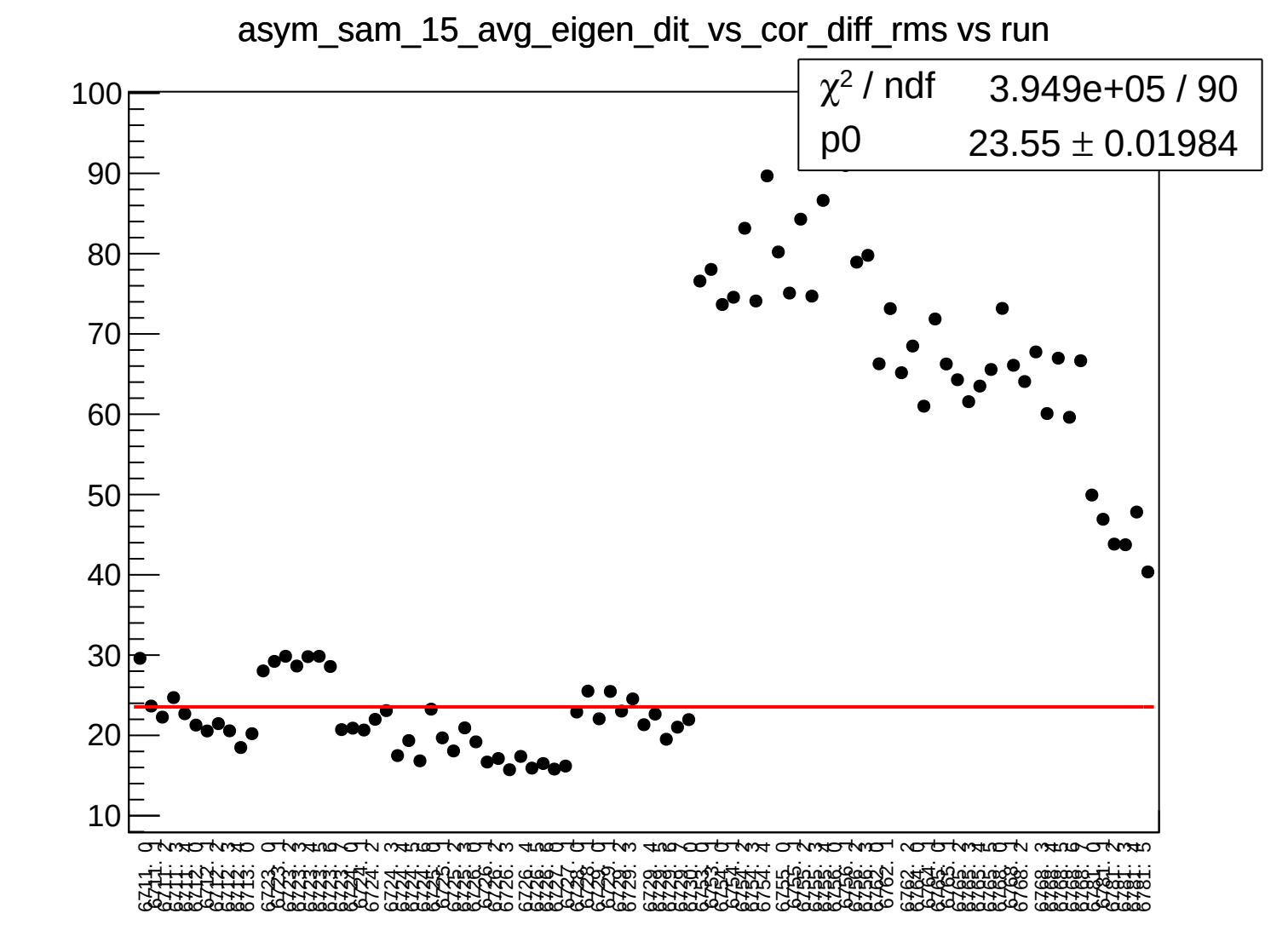

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.2 / 90
p0 −0.03098 ± 0.02805
pull
Entries 91
Mean 130.9
Std Dev 0
pull1D
Entries 91
Mean −0.03977
Std Dev 0.9321

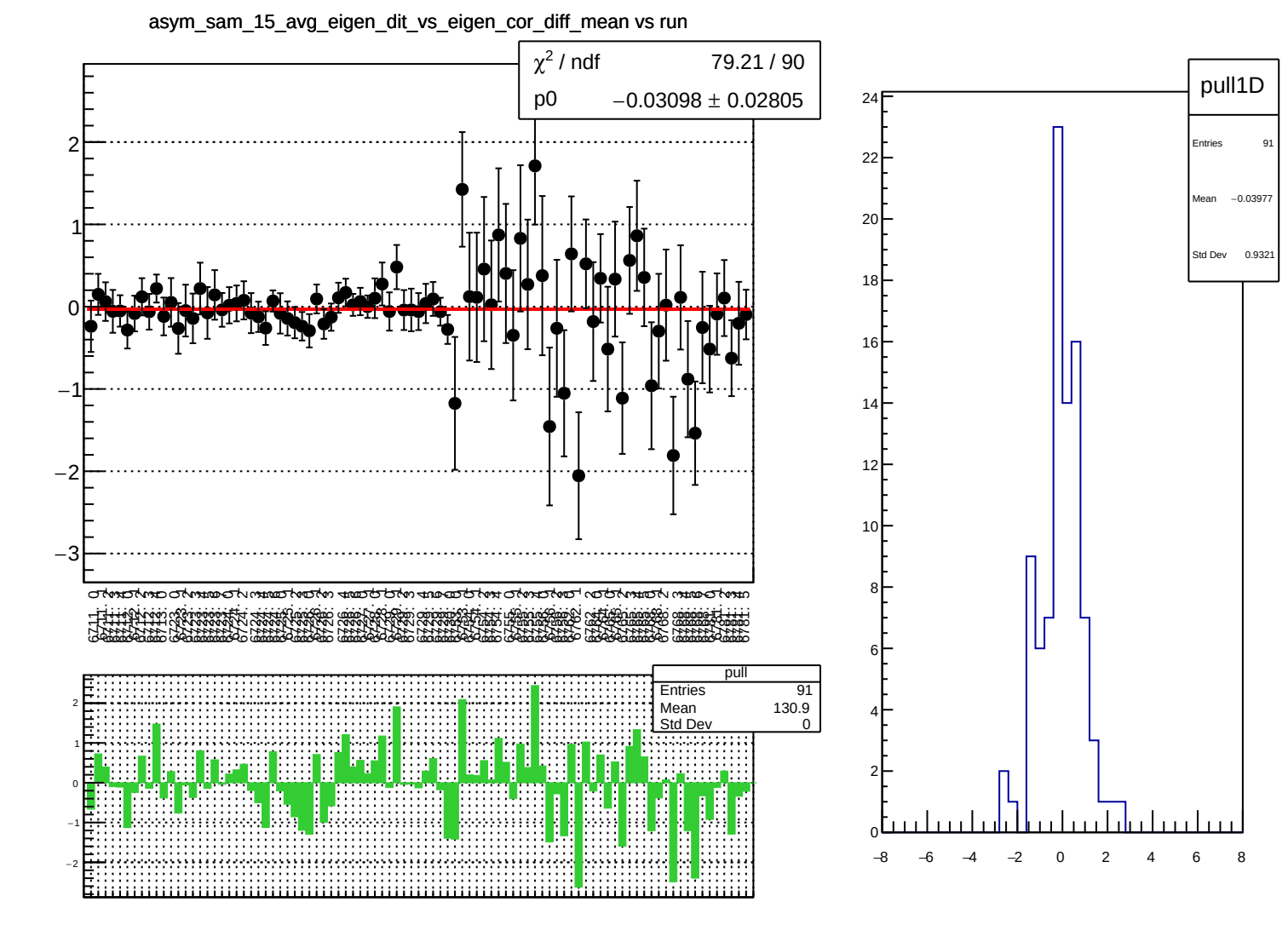

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.949e+05 / 90
p0 23.55 ± 0.01984
100
90
80
70
60
50
40
30
20
10

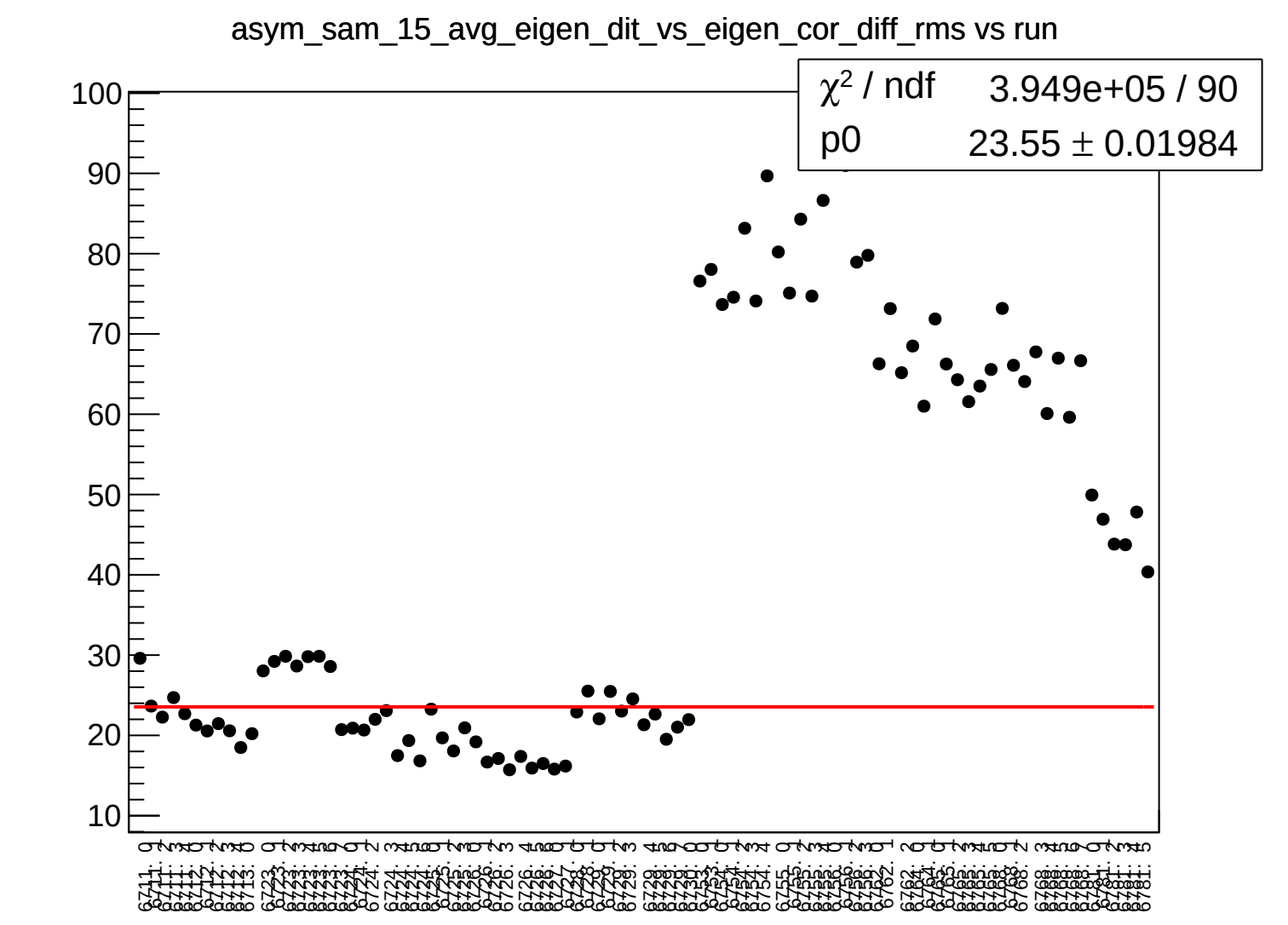

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.28 / 90
p0 −2.181e−06 ± 1.519e−06
pull
Entries 91
Mean 155.3
Std Dev 0
pull1D
Entries 91
Mean −0.02559
Std Dev 1.039

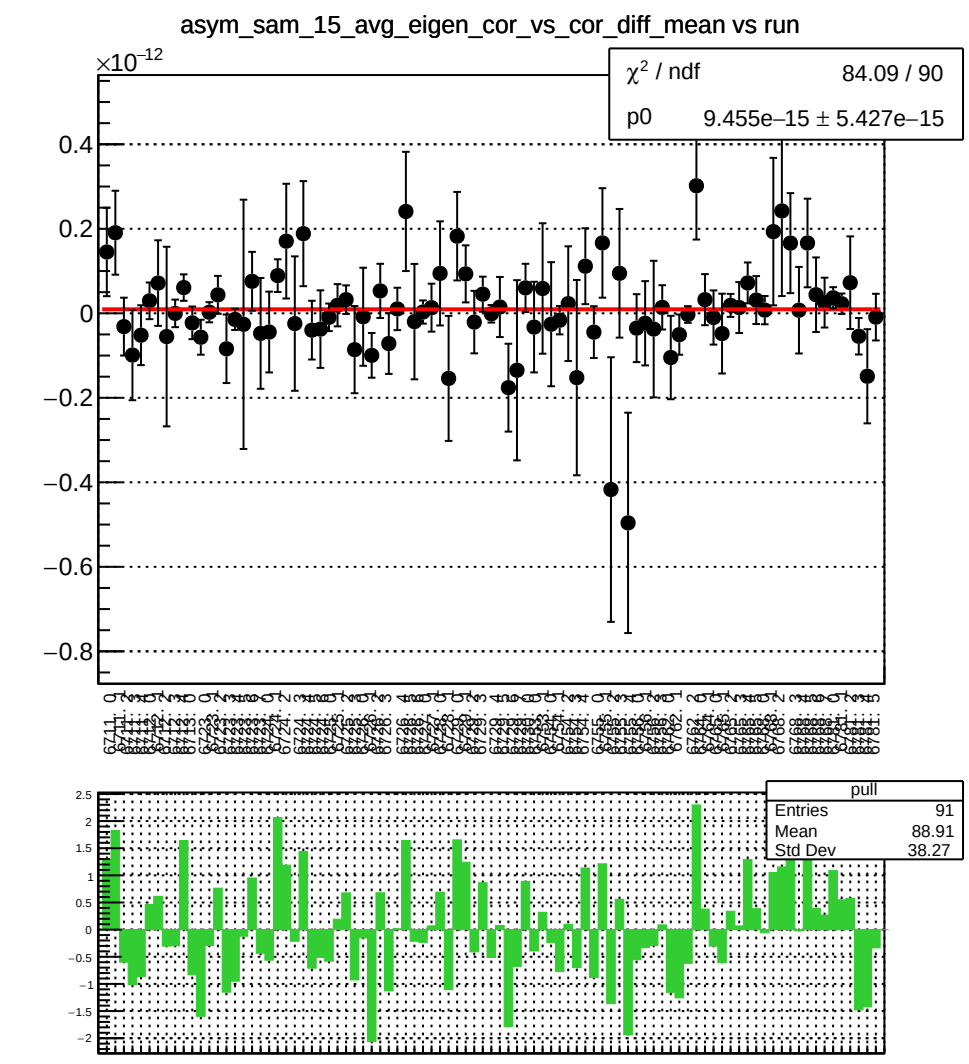

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.243e+05 / 90
p0 0.001392 ± 1.074e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

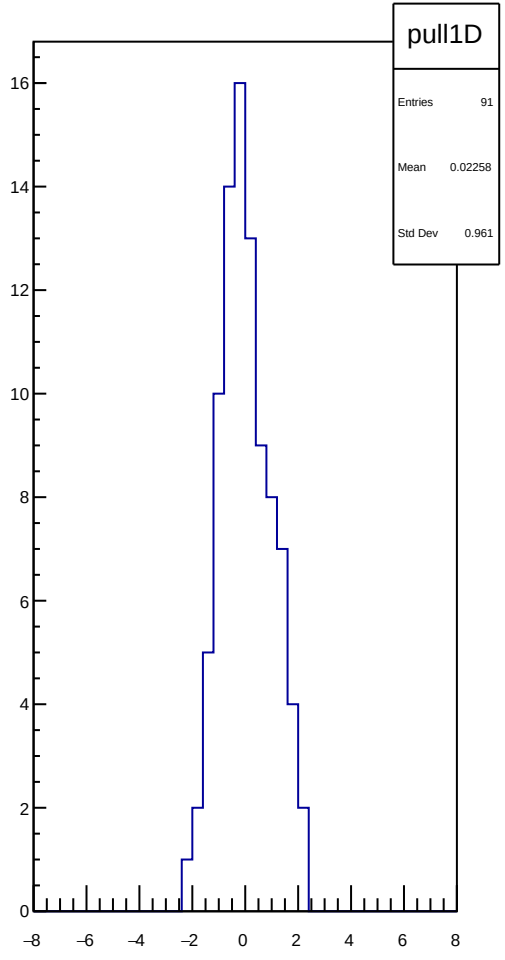

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.21 / 90
p0 −0.03098 ± 0.02805
pull
Entries 91
Mean 130.9
Std Dev 0
pull1D
Entries 91
Mean −0.03977
Std Dev 0.9321

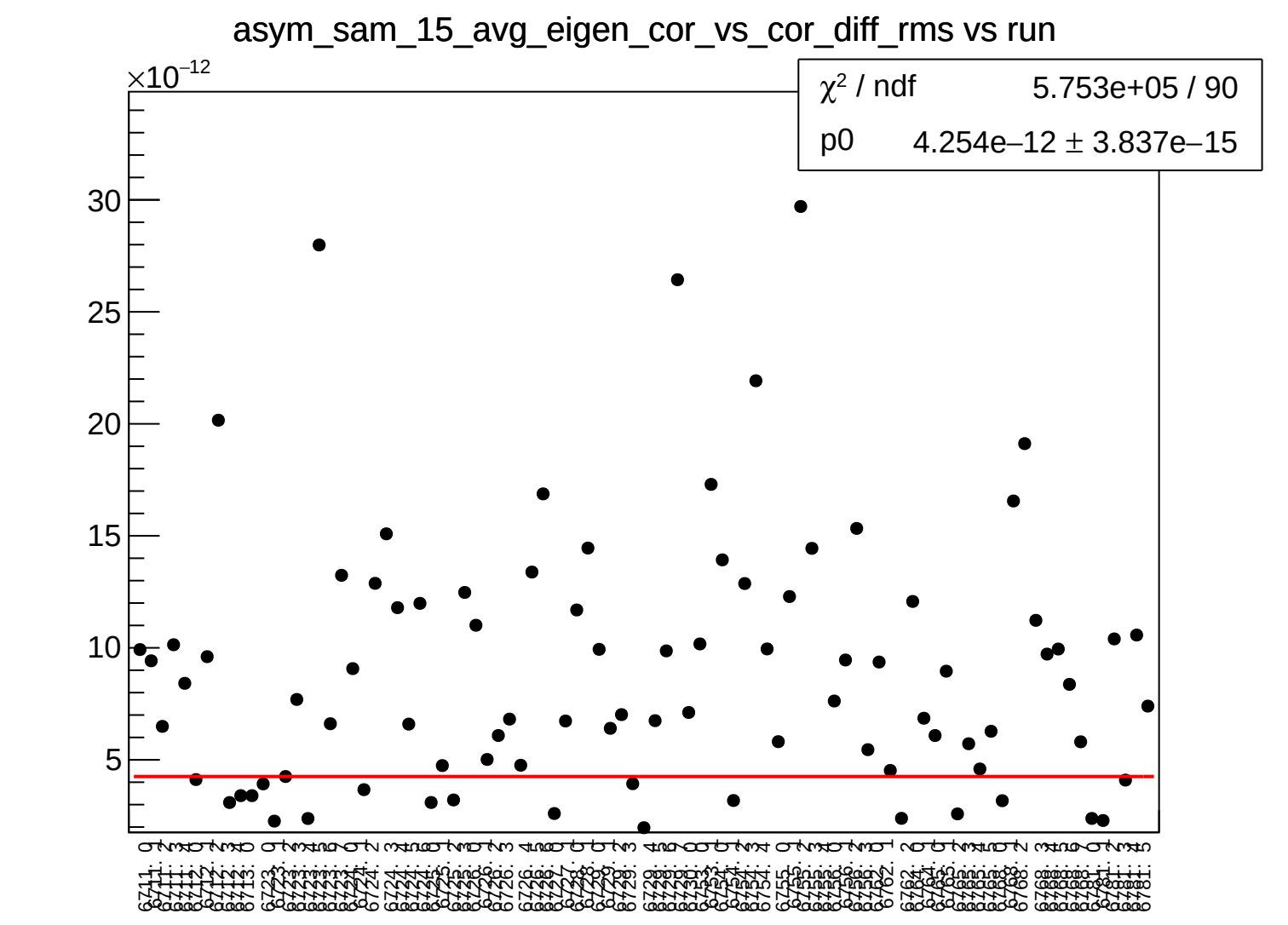

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.949e+05 / 90
p0 23.55 ± 0.01984
100
90
80
70
60
50
40
30
20
10

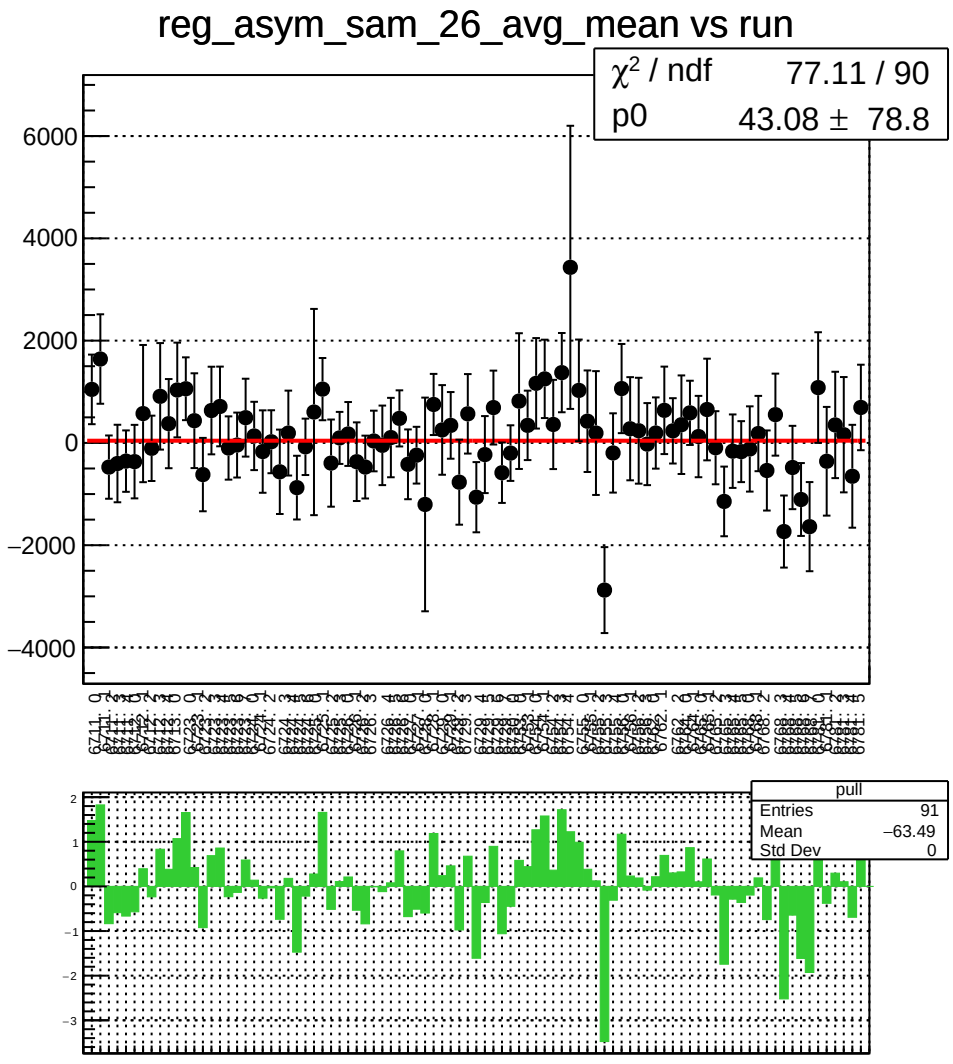

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.21 / 90
p0 −0.03098 ± 0.02805
pull
Entries 91
Mean 130.9
Std Dev 0
pull1D
Entries 91
Mean −0.03977
Std Dev 0.9321

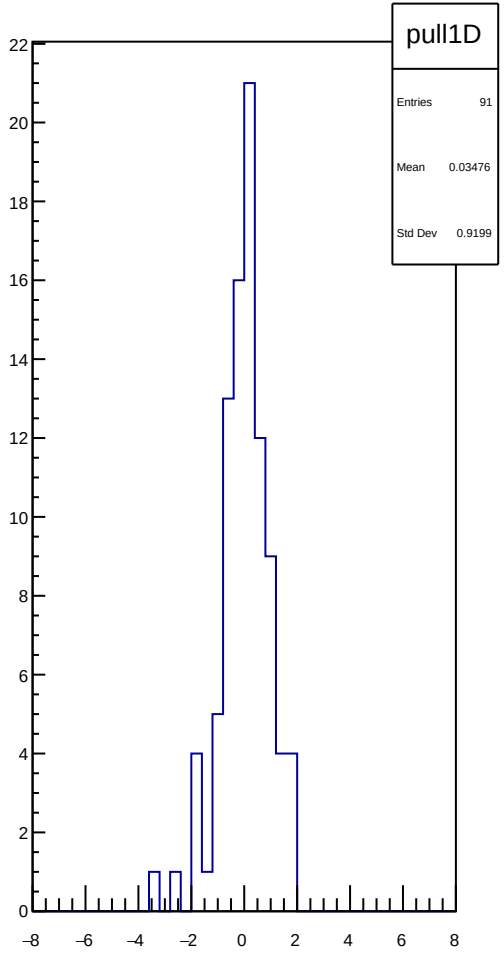

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.949e+05 / 90
p0 23.55 ± 0.01984
100
90
80
70
60
50
40
30
20
10

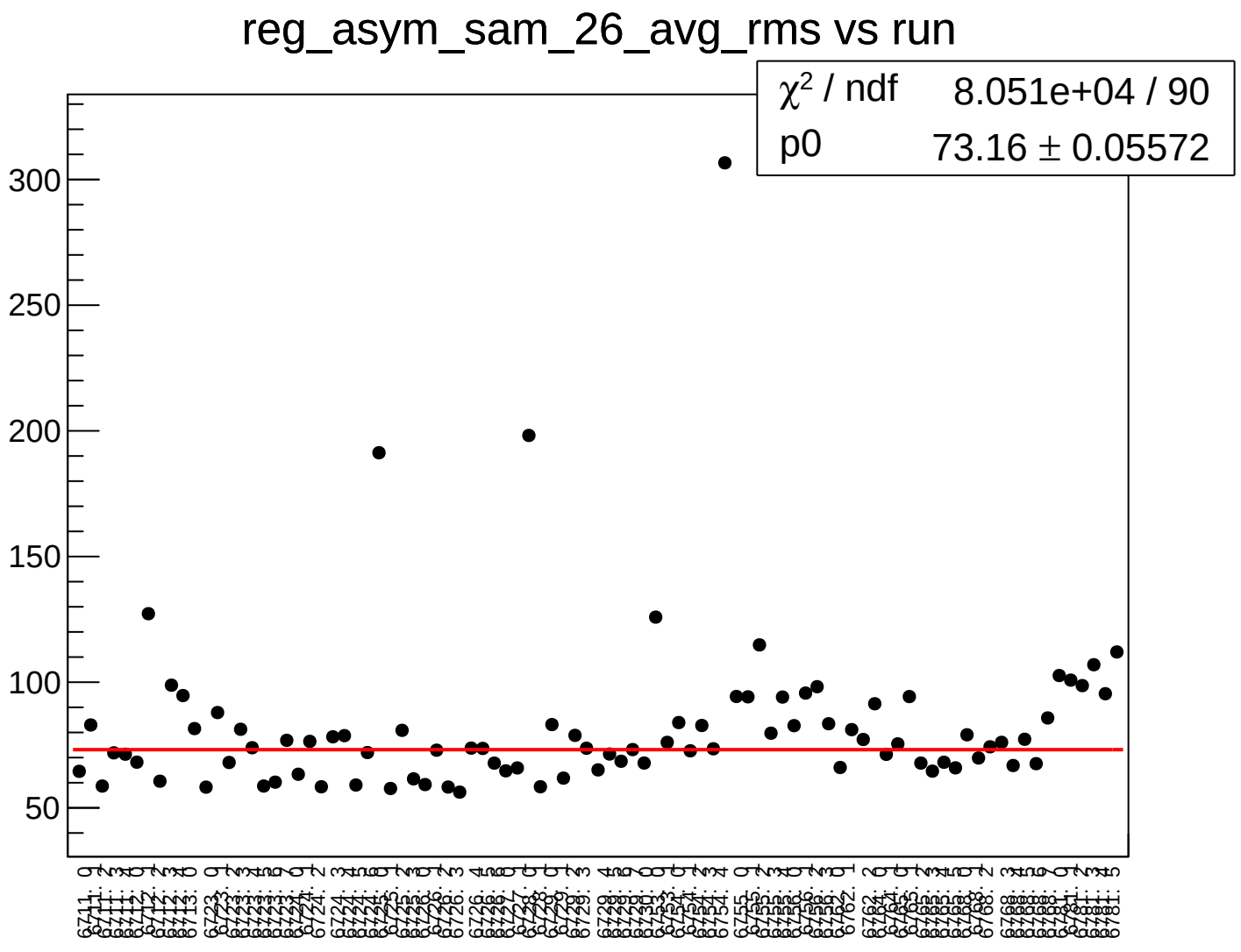

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.09 / 90
p0 9.455e−15 ± 5.427e−15
pull
Entries 91
Mean 88.91
Std Dev 38.27

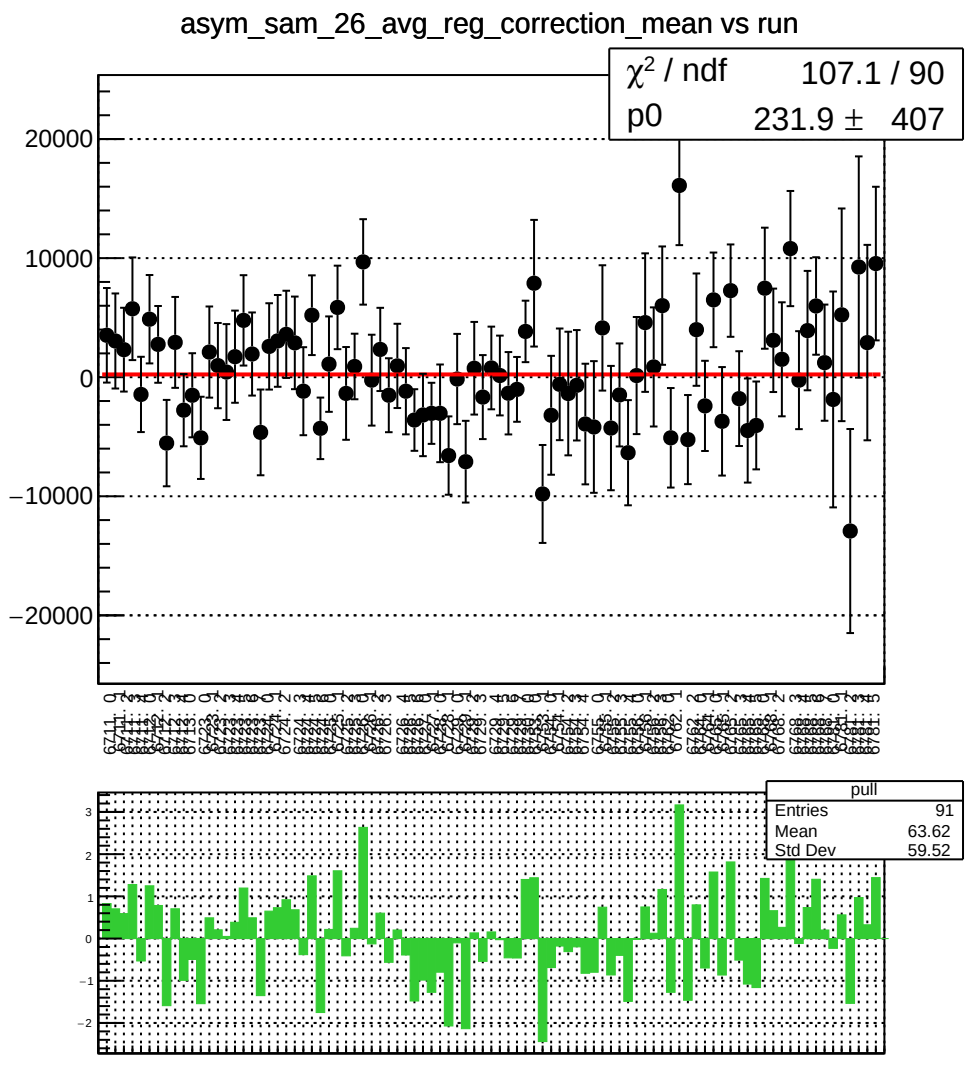

pull1D
Entries 91
Mean 0.02258
Std Dev 0.961

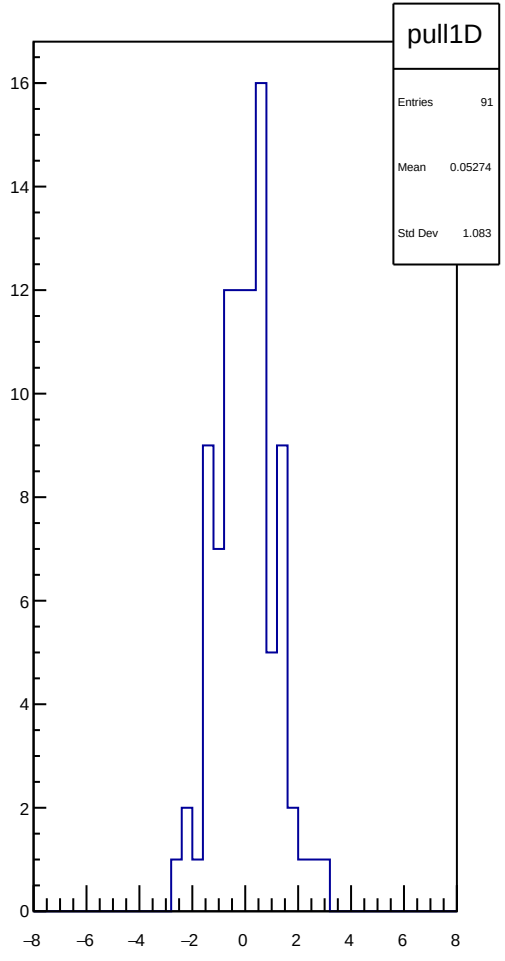

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.753e+05 / 90
p0 4.254e−12 ± 3.837e−15
30
25
20
15
10
5

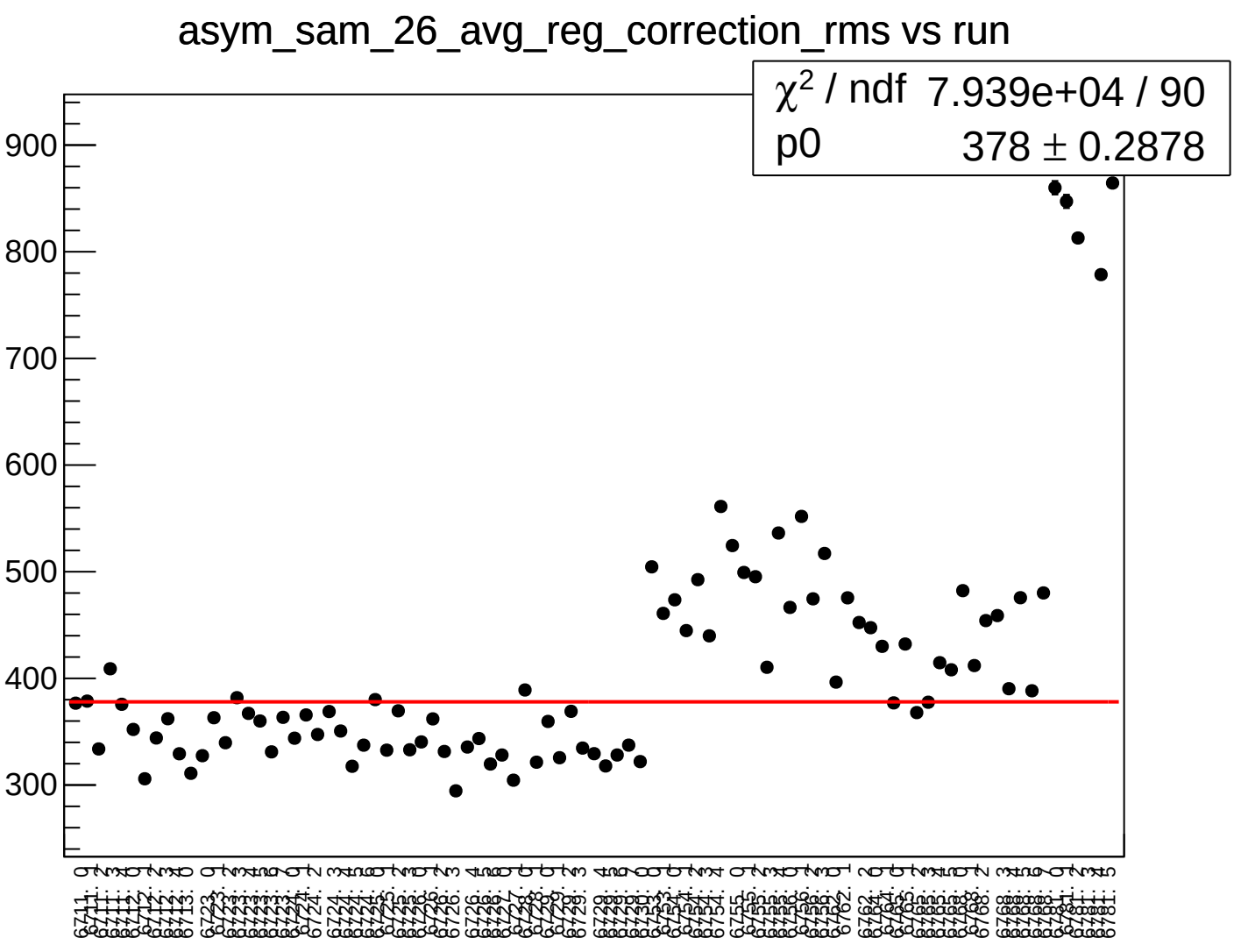

reg_asym_sam_26_avg_mean vs run
χ² / ndf 77.11 / 90
p0 43.08 ± 78.8
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −63.49
Std Dev 0
2
1
0
−1
−2
−3

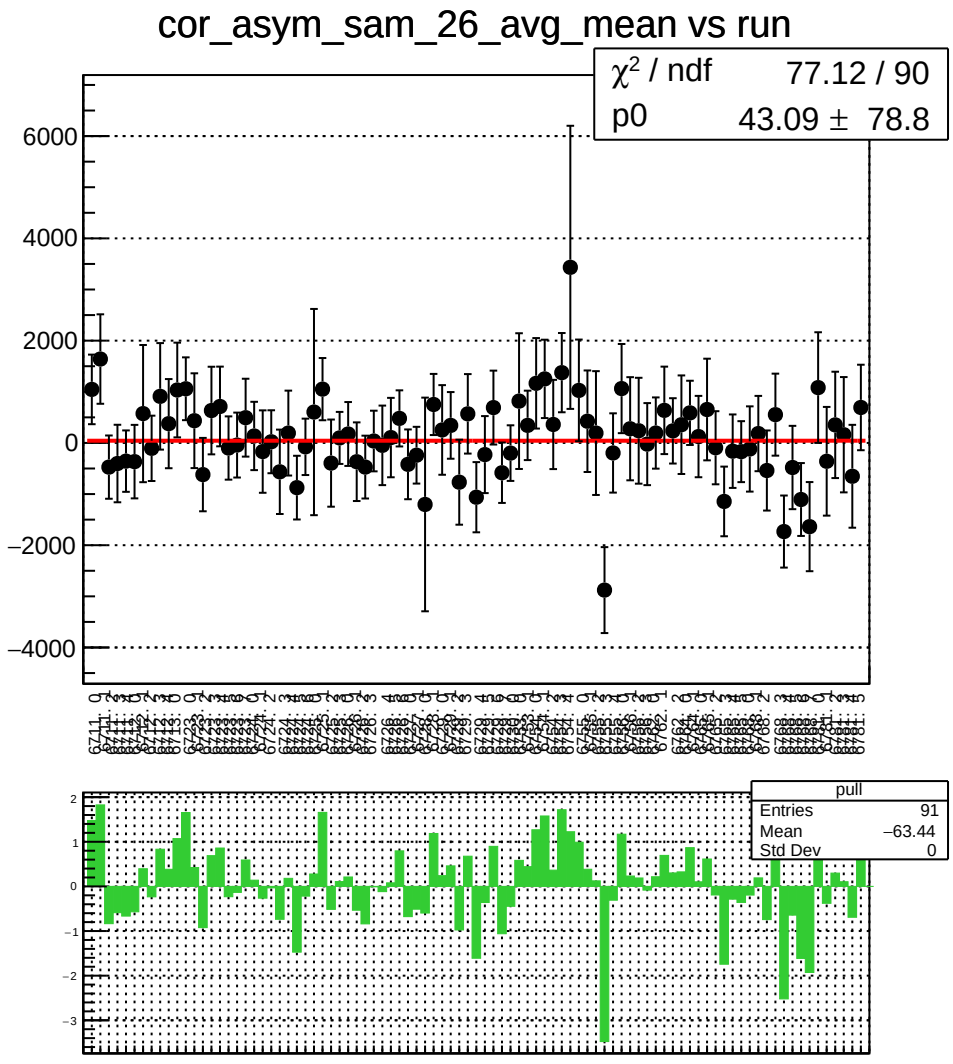

pull1D
Entries 91
Mean 0.03476
Std Dev 0.9199
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

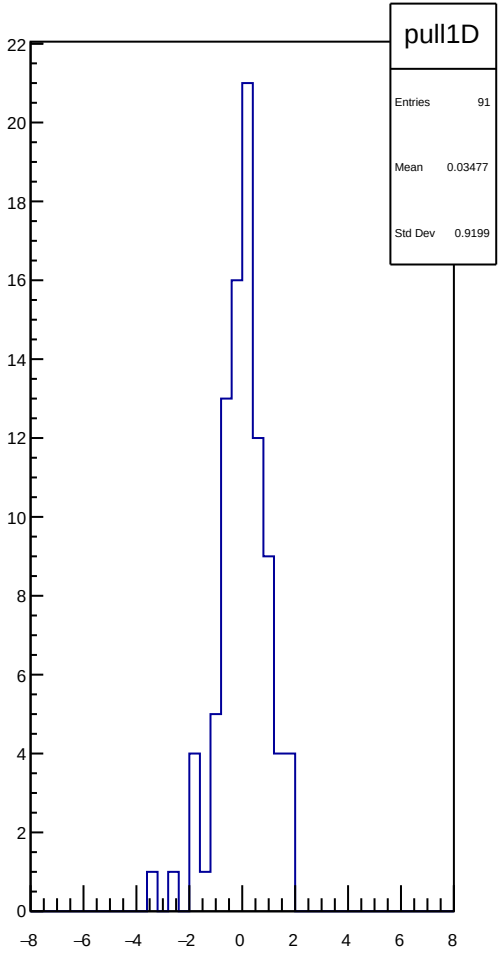

reg_asym_sam_26_avg_rms vs run
χ² / ndf 8.051e+04 / 90
p0 73.16 ± 0.05572
300
250
200
150
100
50

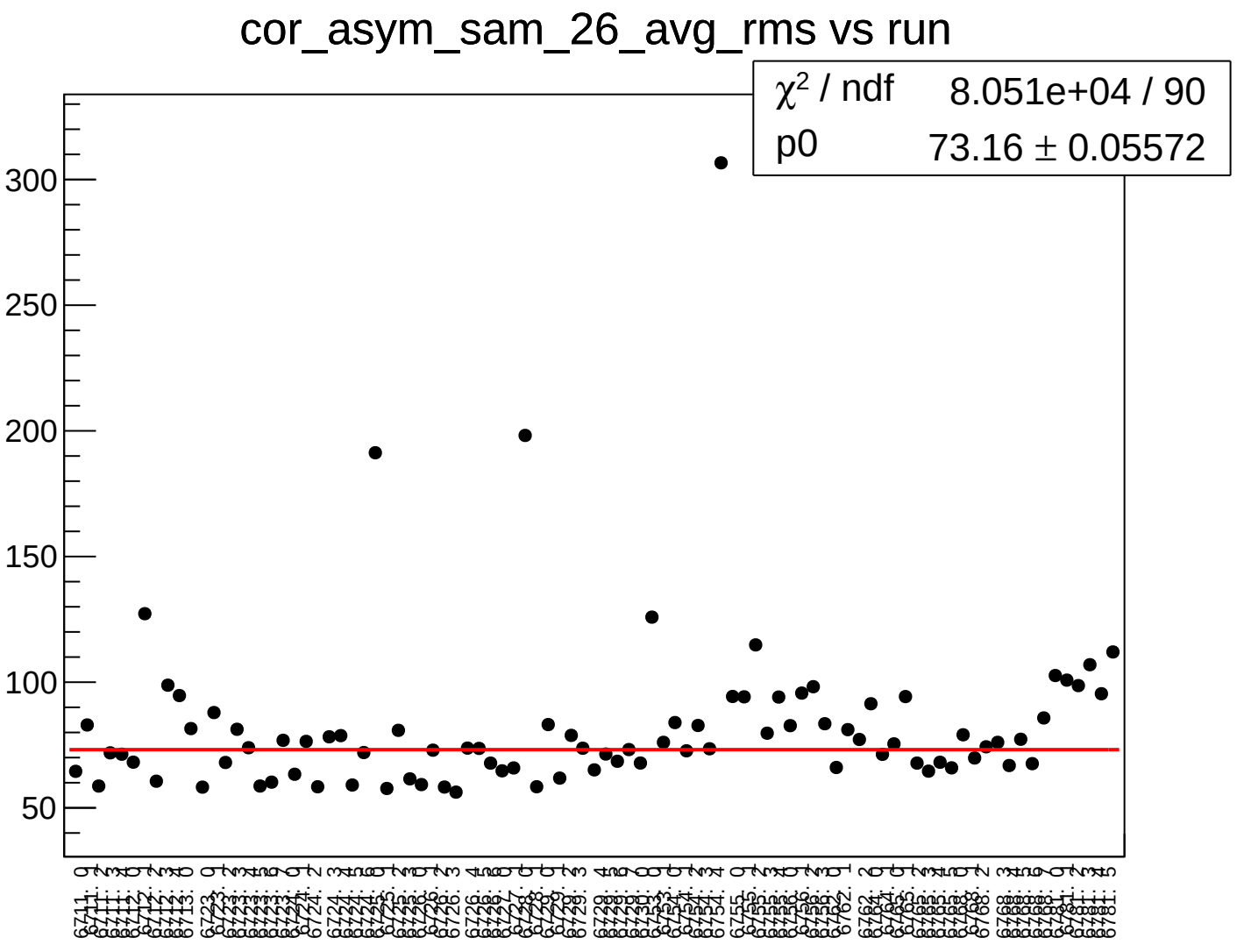

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 107.1 / 90
p0 231.9 ± 407
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 63.62
Std Dev 59.52
3
2
1
0
−1
−2

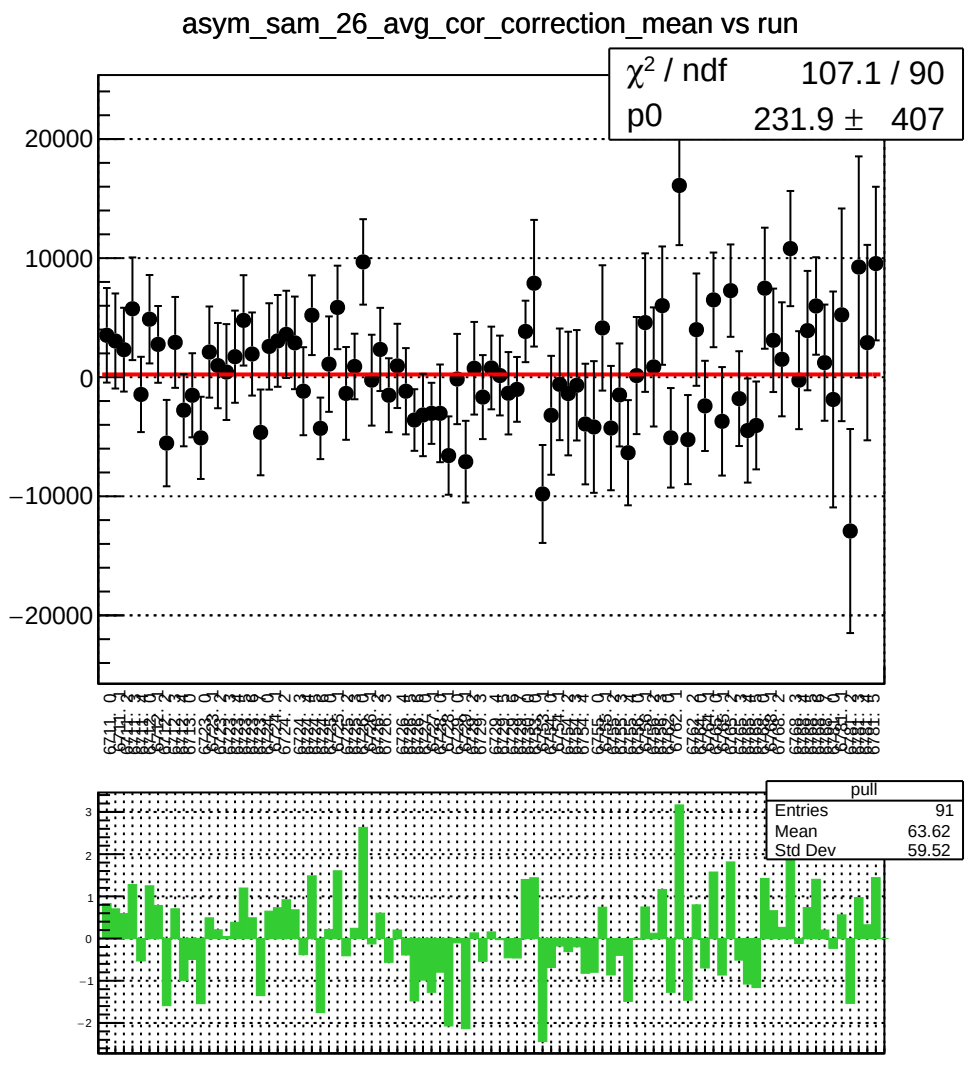

pull1D
Entries 91
Mean 0.05274
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

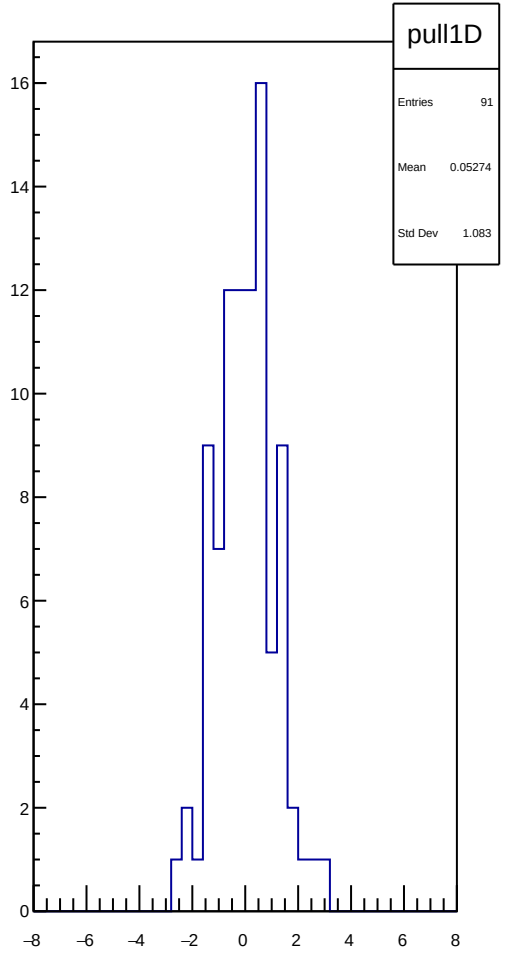

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 7.939e+04 / 90
p0 378 ± 0.2878
900
800
700
600
500
400
300

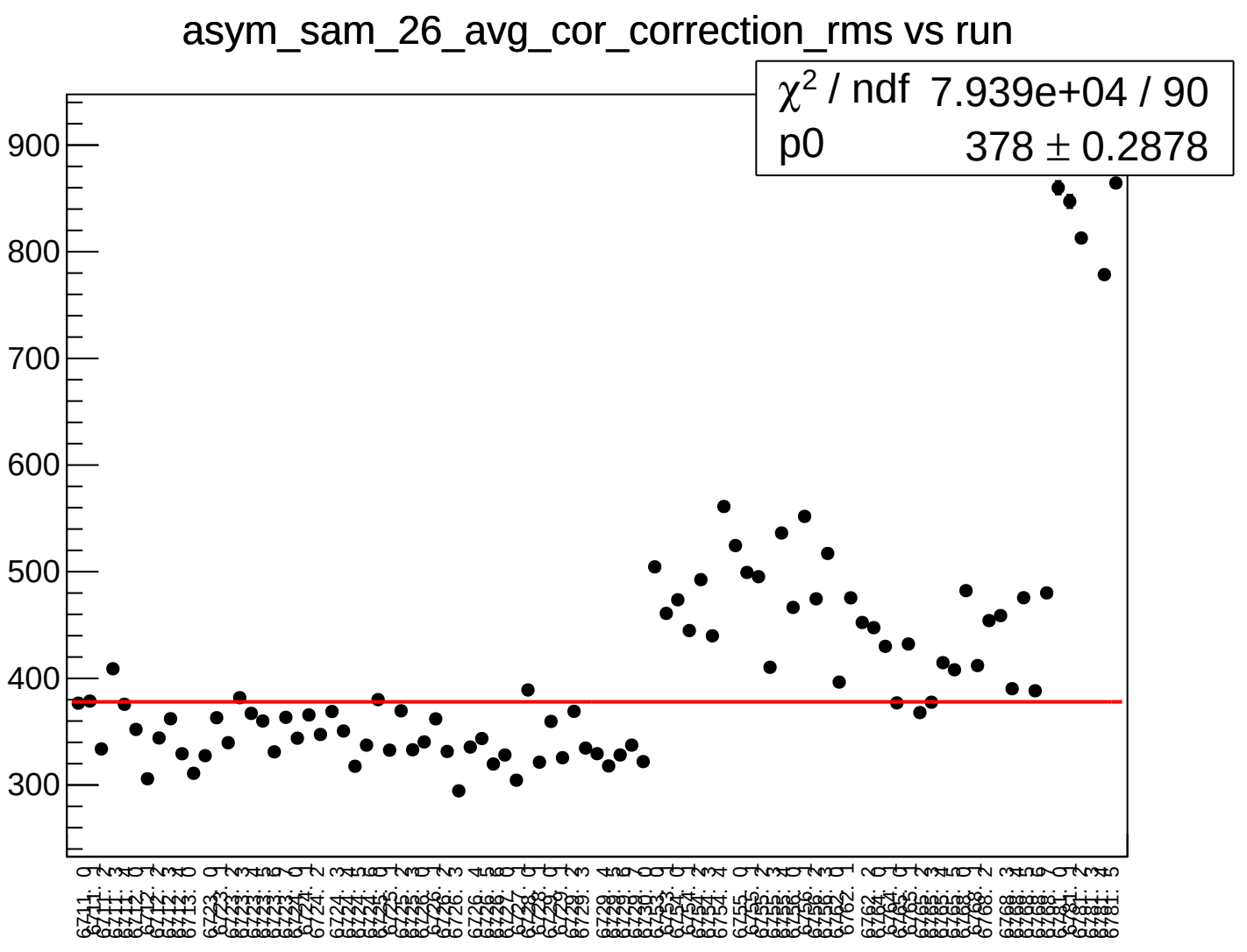

cor_asym_sam_26_avg_mean vs run
χ² / ndf 77.12 / 90
p0 43.09 ± 78.8
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −63.44
Std Dev 0
2
1
0
−1
−2
−3

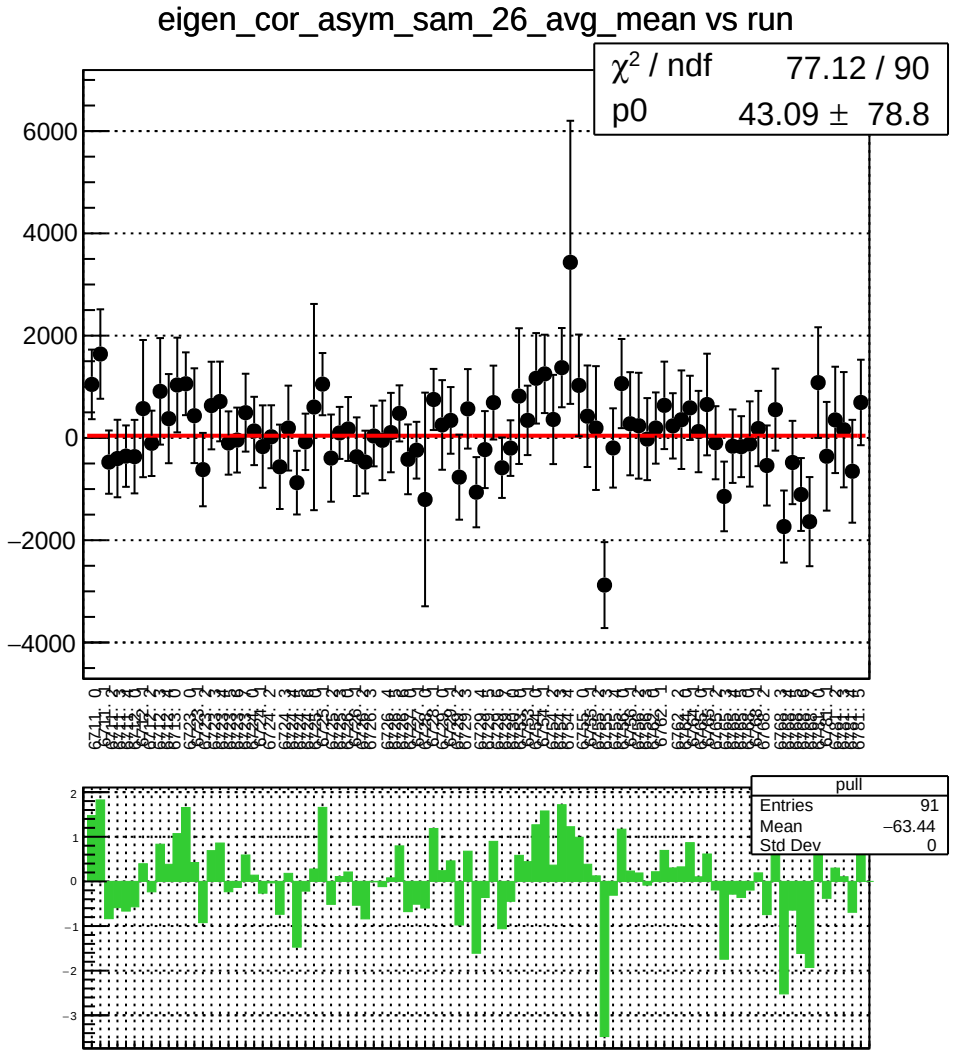

pull1D
Entries 91
Mean 0.03477
Std Dev 0.9199
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

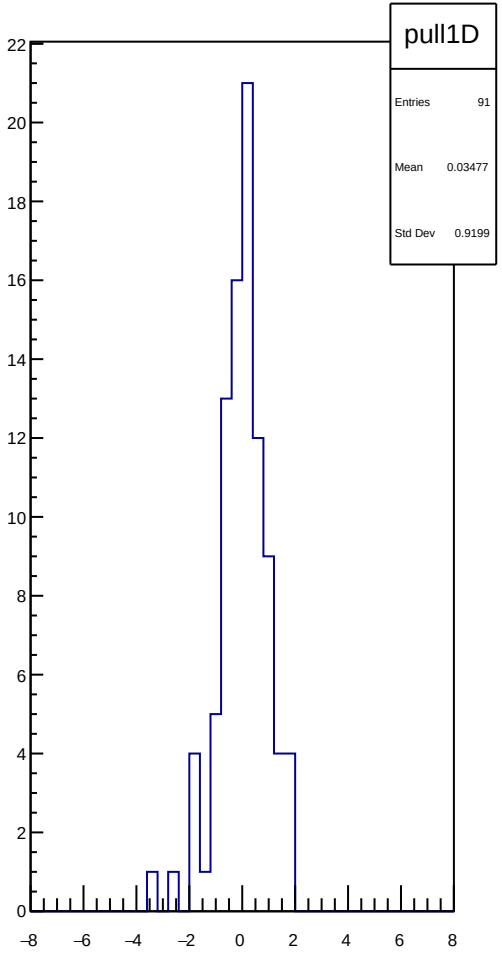

cor_asym_sam_26_avg_rms vs run
χ^2 / ndf 8.051e+04 / 90
p0 73.16 ± 0.05572
300
250
200
150
100
50

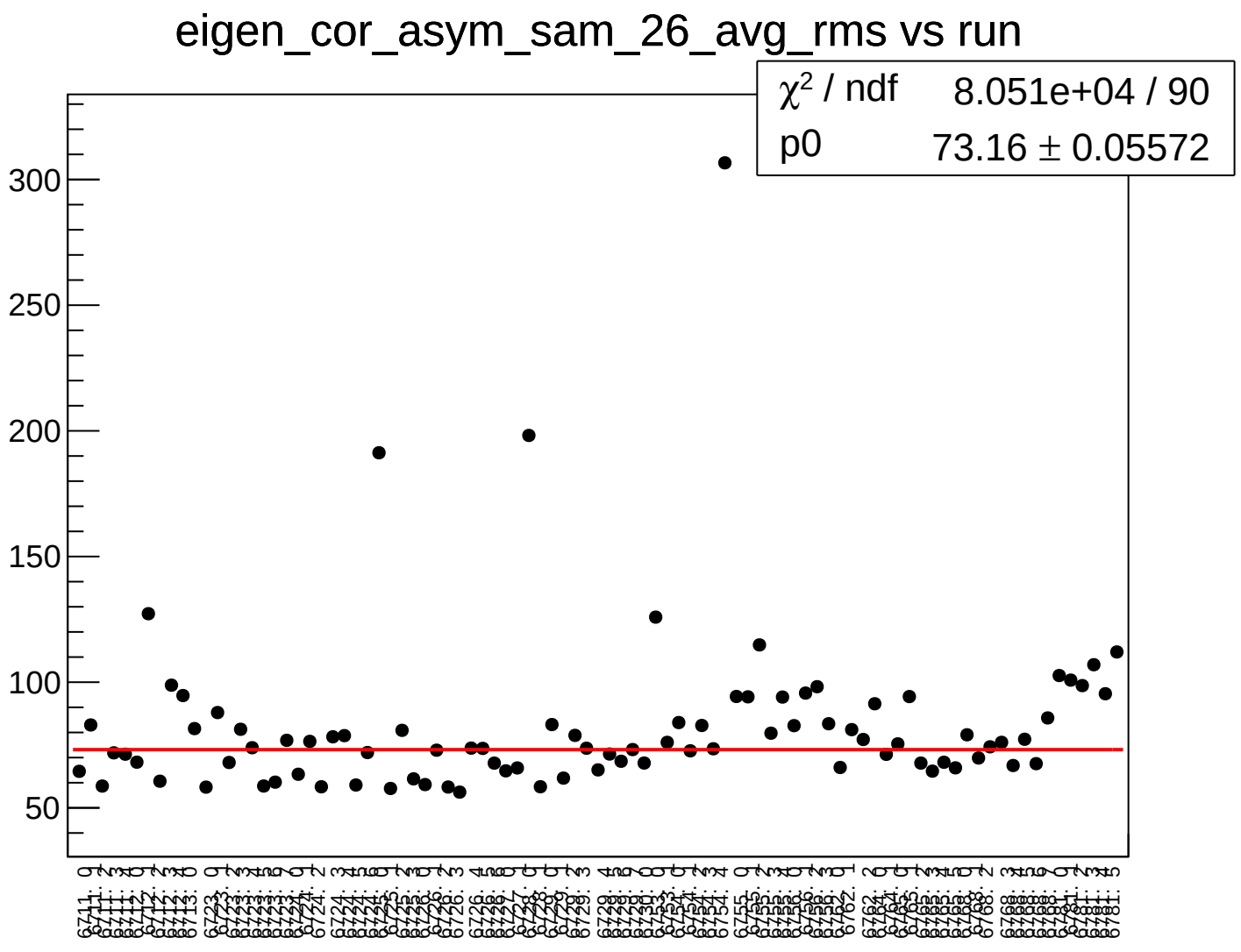

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 107.1 / 90
p0 231.9 ± 407
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 63.62
Std Dev 59.52
3
2
1
0
−1
−2

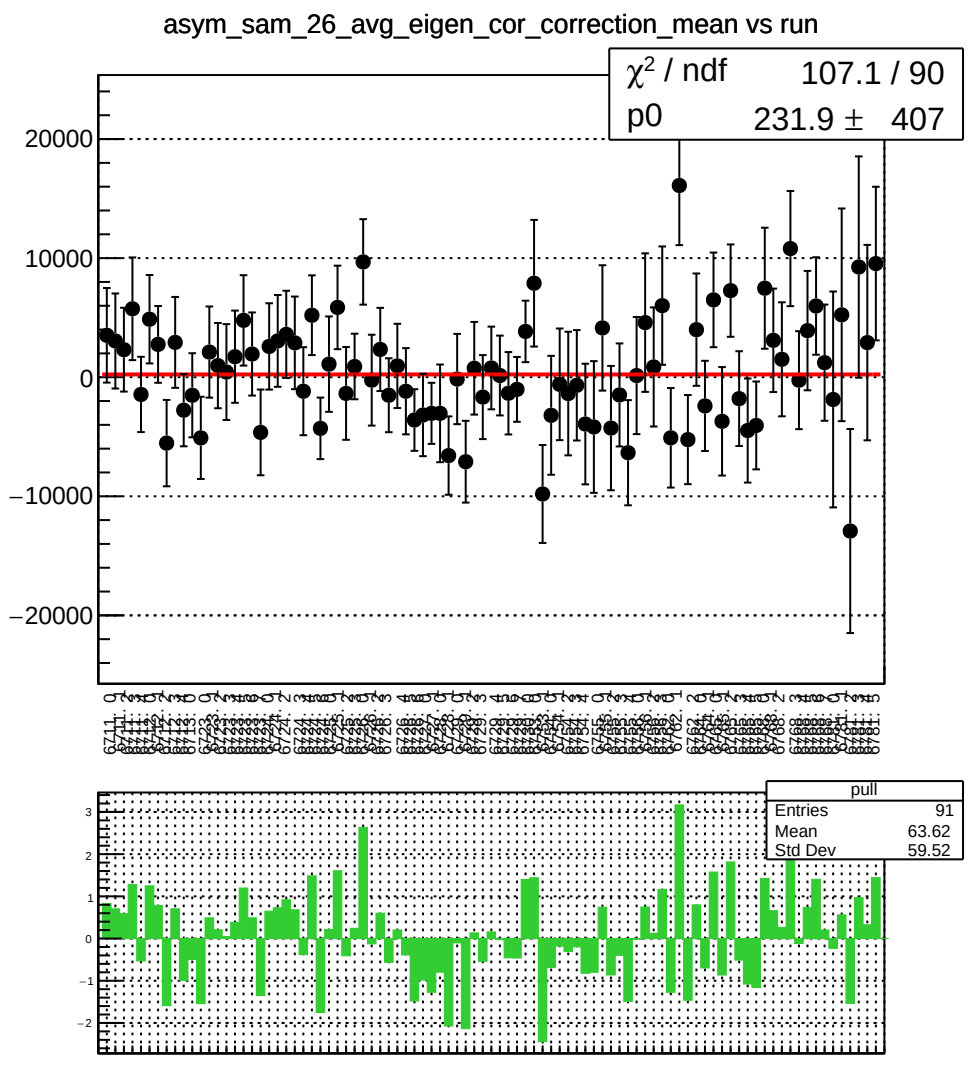

pull1D
Entries 91
Mean 0.05274
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

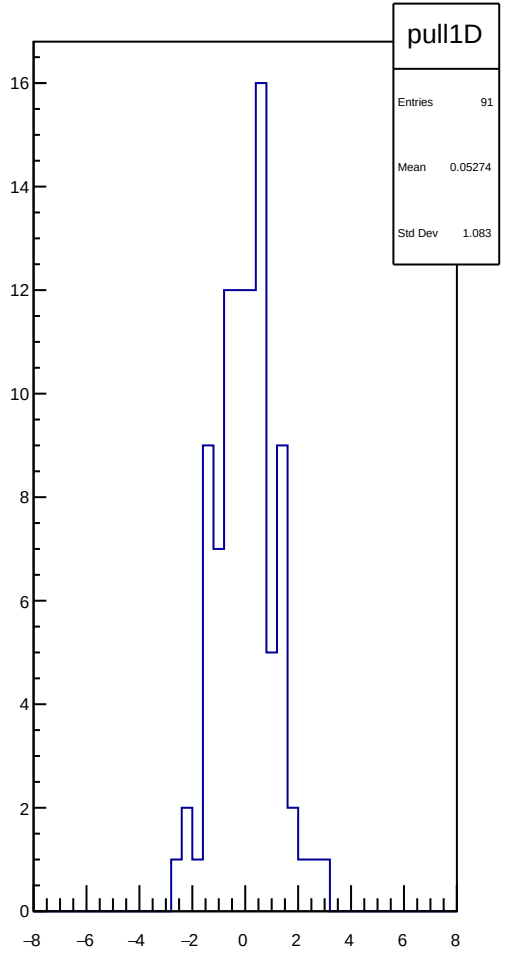

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 7.939e+04 / 90
p0 378 ± 0.2878
900
800
700
600
500
400
300

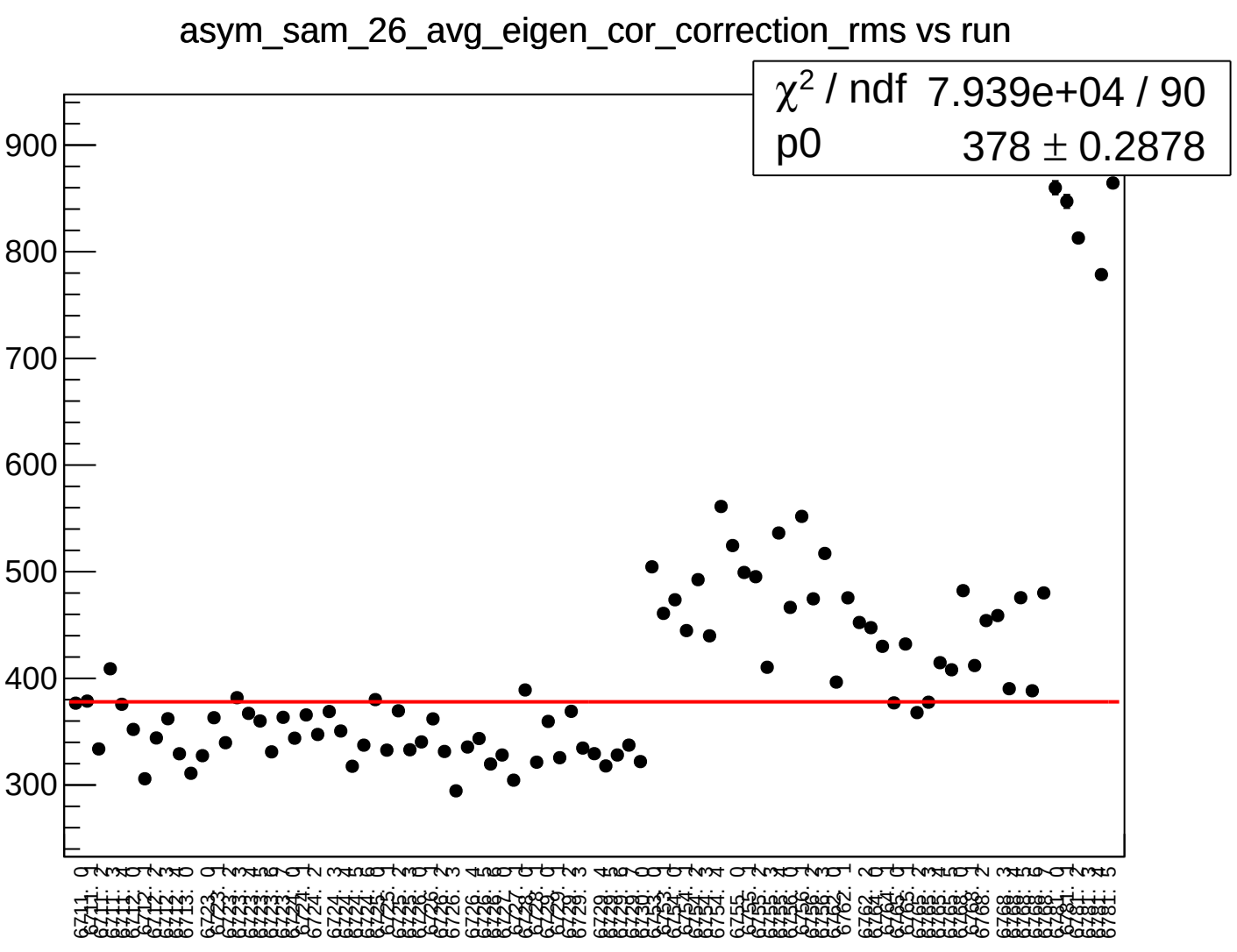

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 77.12 / 90
p0 43.09 ± 78.8
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −63.44
Std Dev 0
2
1
0
−1
−2
−3

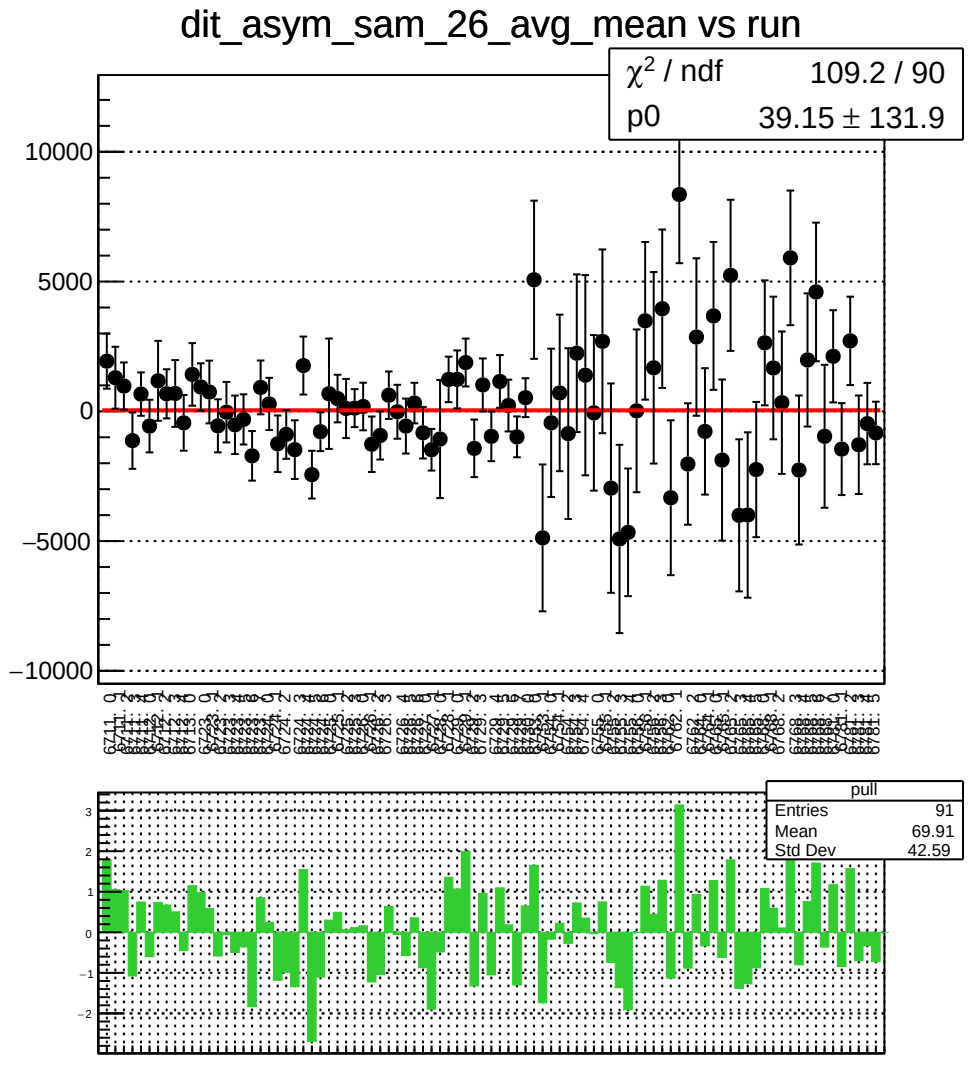

pull1D
Entries 91
Mean 0.03477
Std Dev 0.9199
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

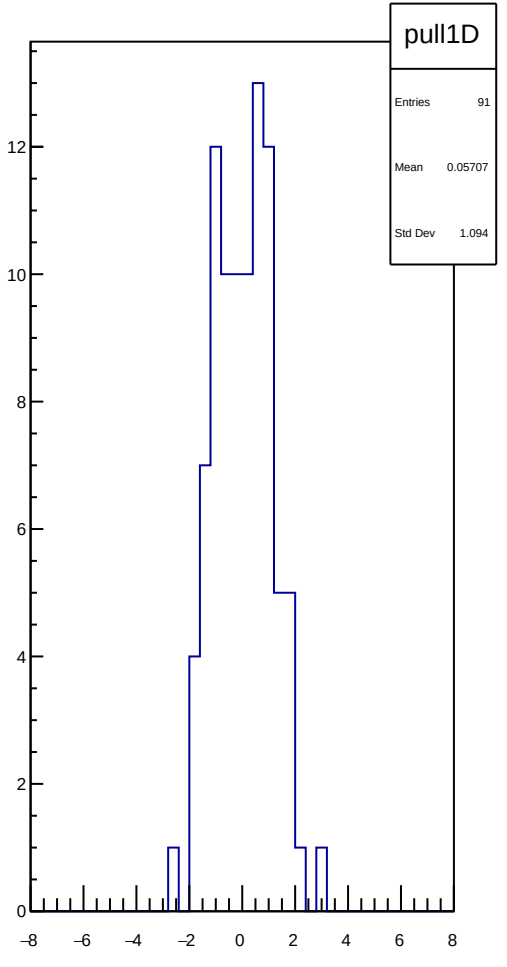

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 8.051e+04 / 90
p0 73.16 ± 0.05572
300
250
200
150
100
50

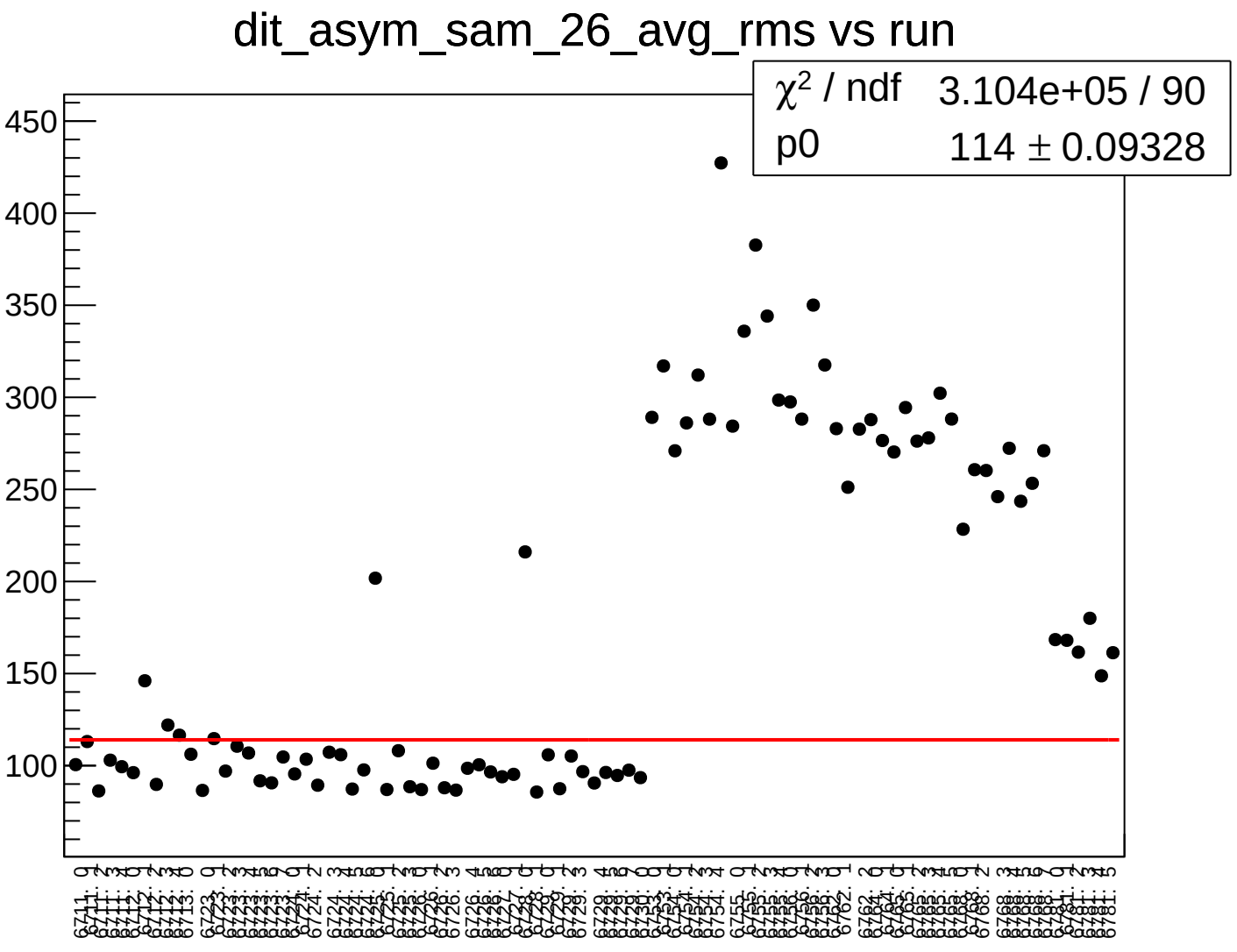

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 107.1 / 90
p0 231.9 ± 407
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 63.62
Std Dev 59.52
3
2
1
0
−1
−2

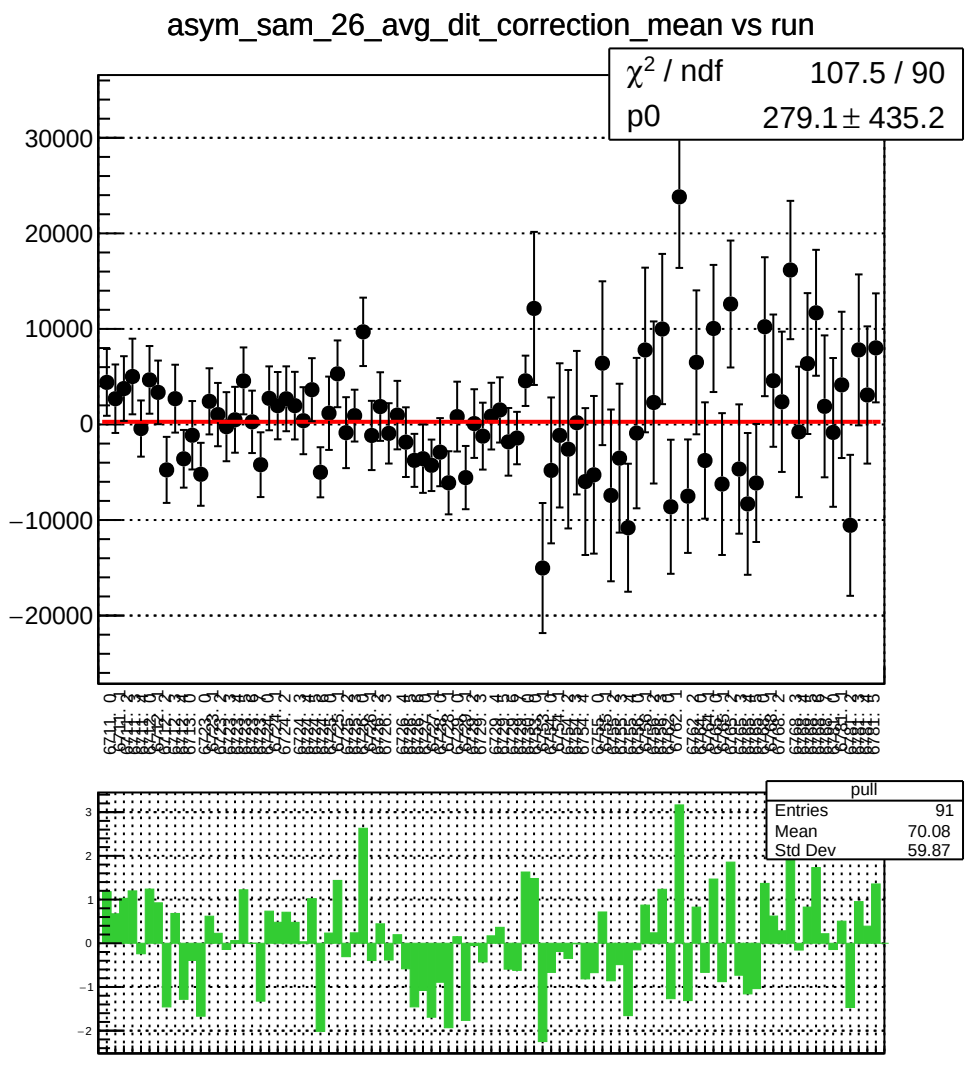

pull1D
Entries 91
Mean 0.05274
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

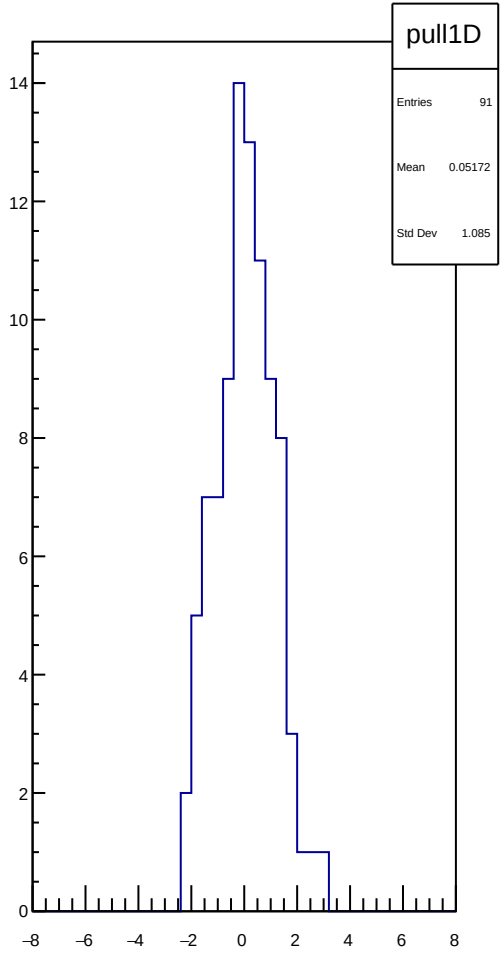

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 7.939e+04 / 90
p0 378 ± 0.2878
900
800
700
600
500
400
300

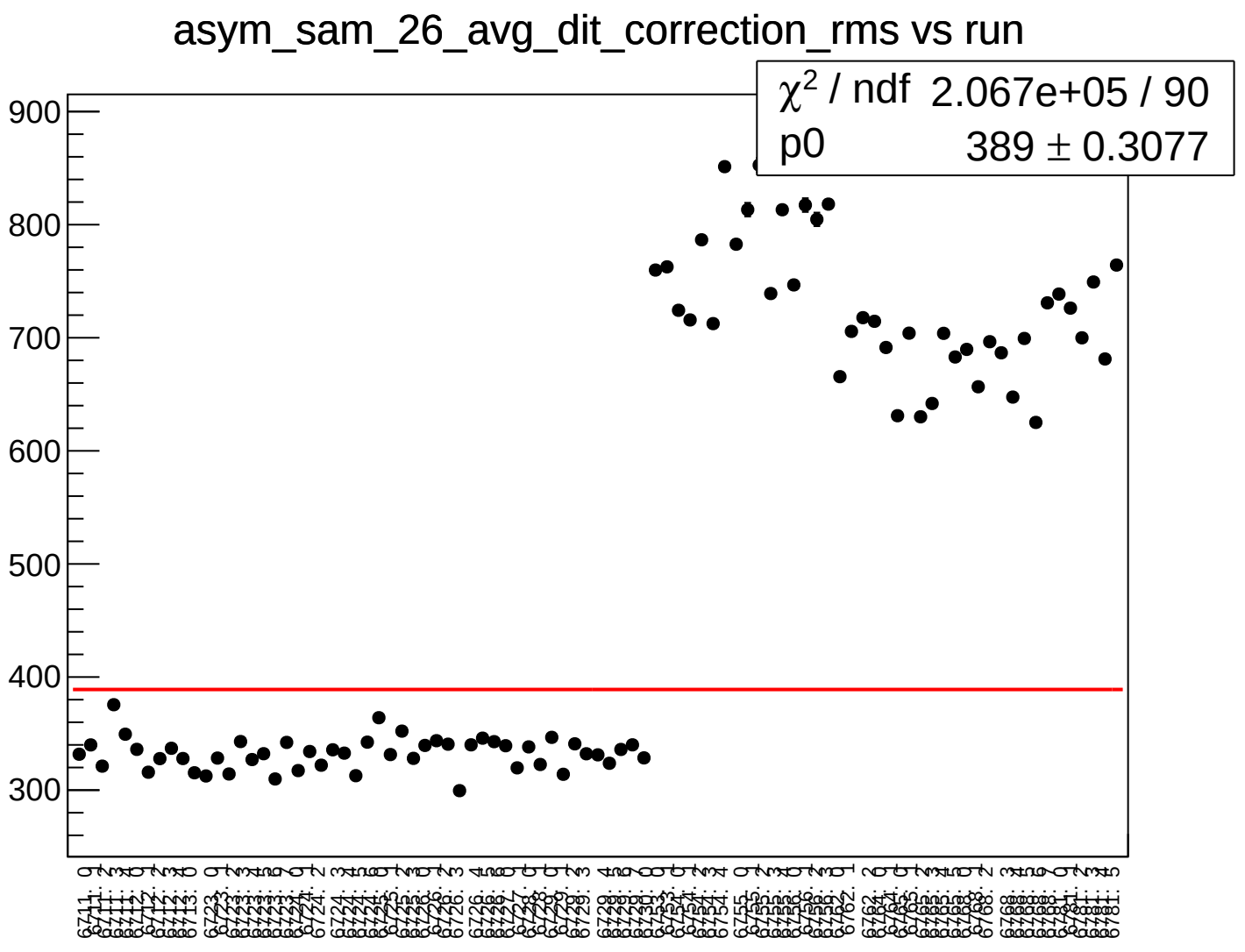

dit_asym_sam_26_avg_mean vs run
χ² / ndf 109.2 / 90
p0 39.15 ± 131.9
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 69.91
Std Dev 42.59
3
2
1
0
−1
−2

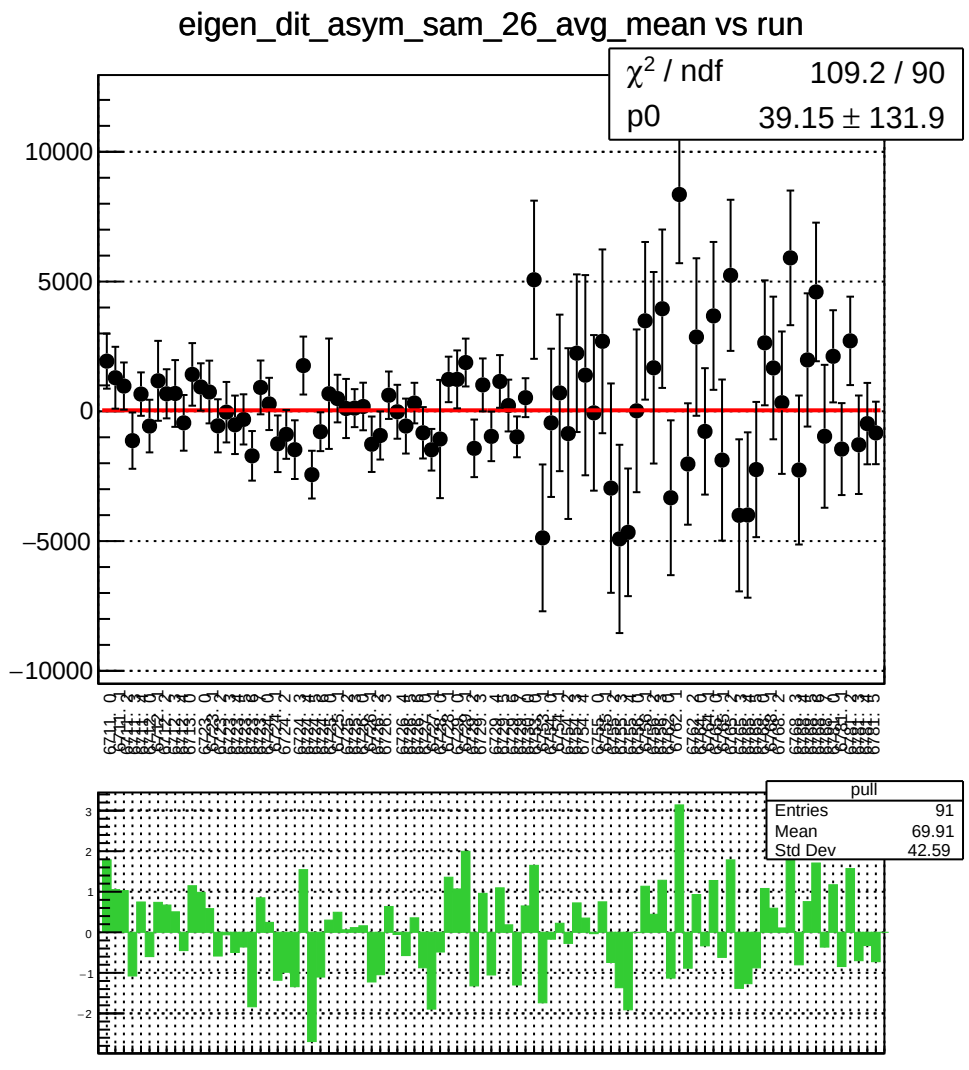

pull1D
Entries 91
Mean 0.05707
Std Dev 1.094
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

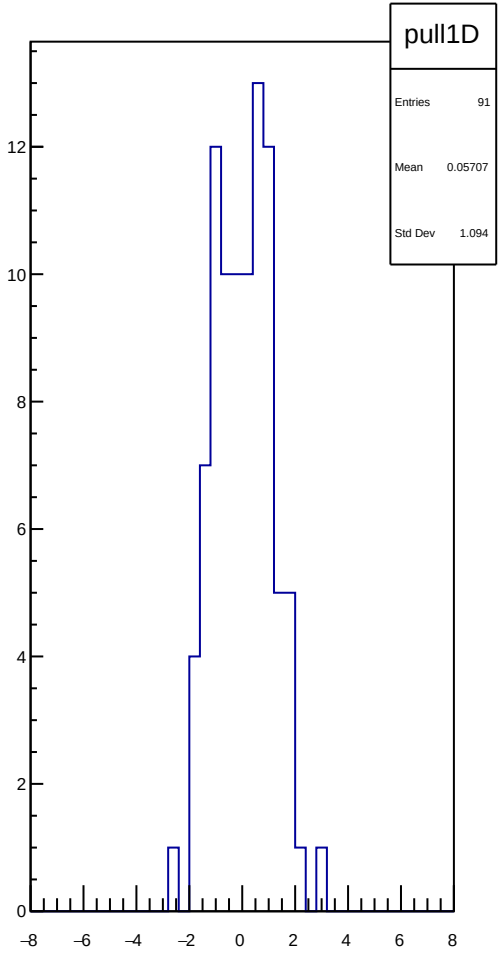

dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 3.104e+05 / 90
p0 114 ± 0.09328
450
400
350
300
250
200
150
100

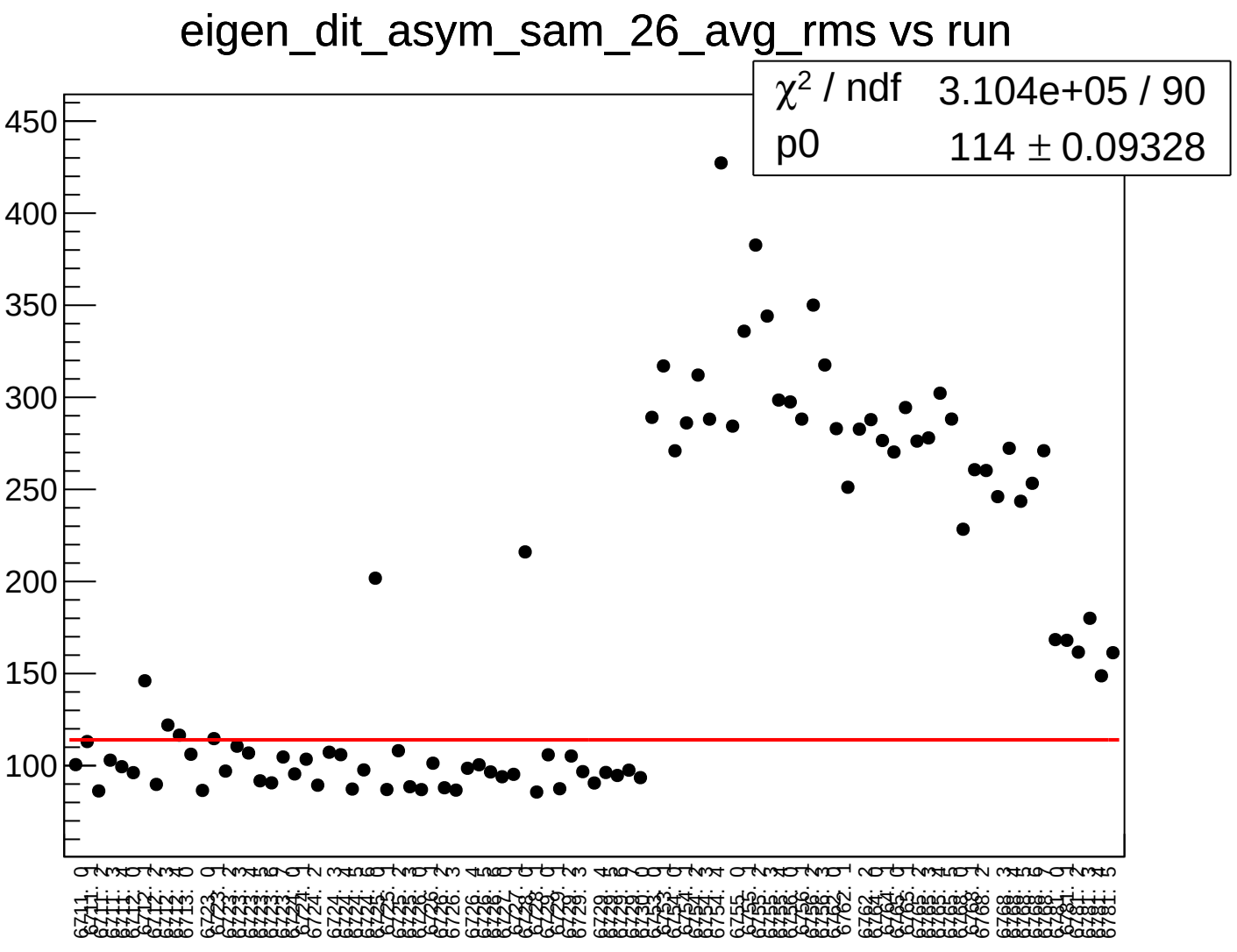

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 107.5 / 90
p0 279.1 ± 435.2
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 70.08
Std Dev 59.87
3
2
1
0
−1
−2

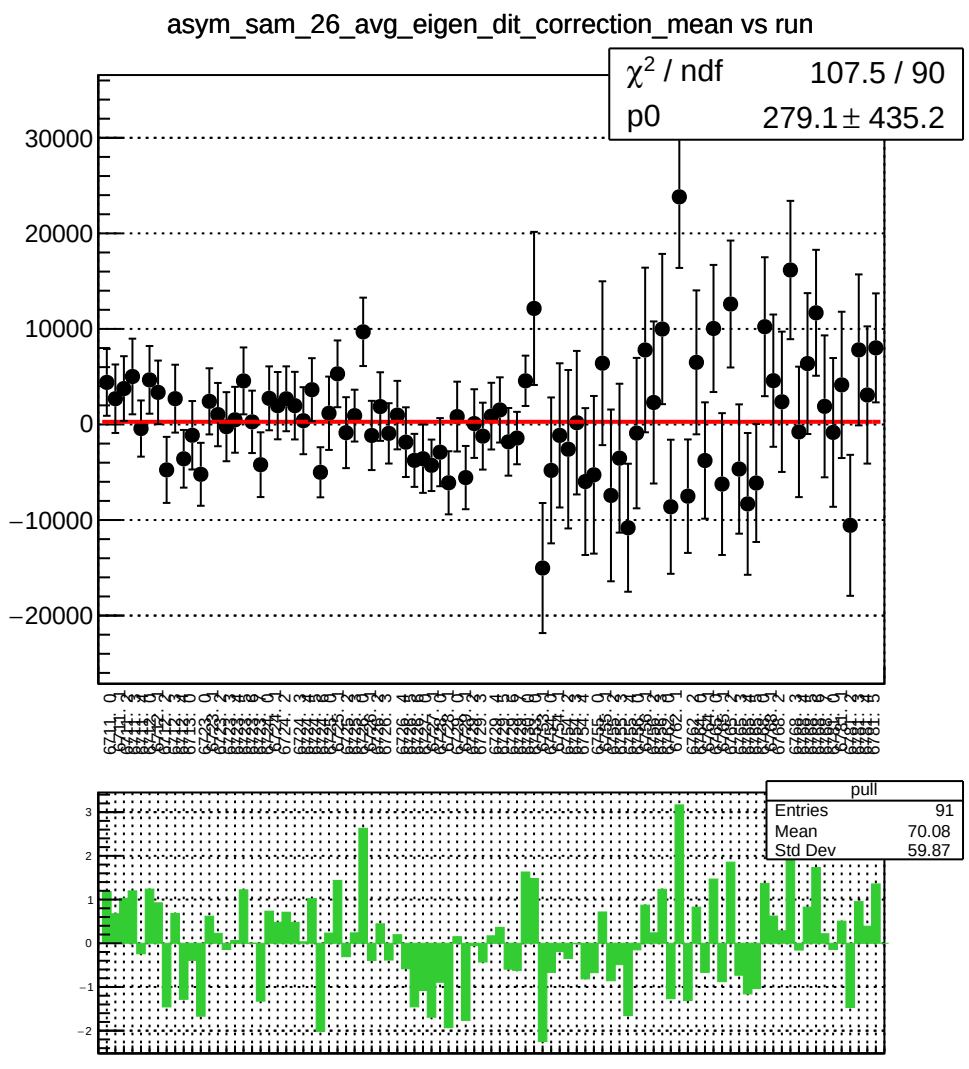

pull1D
Entries 91
Mean 0.05172
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

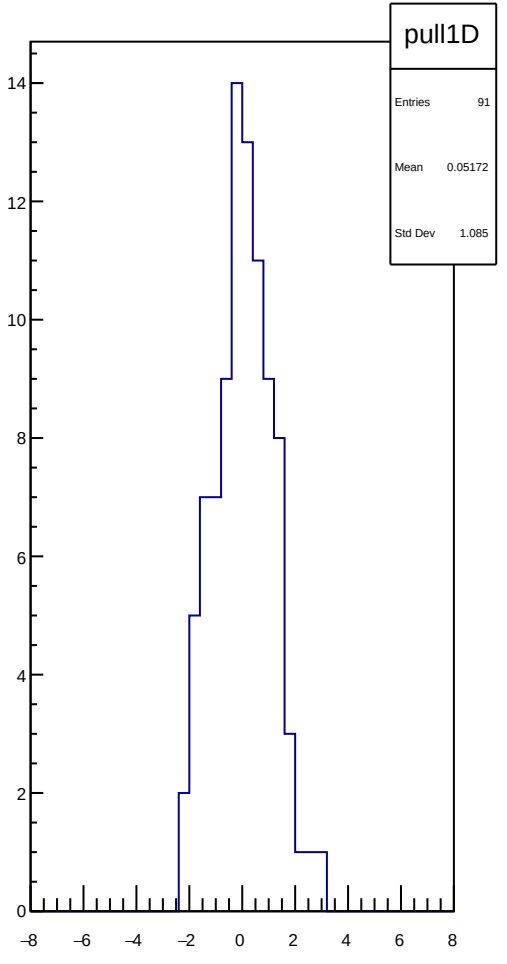

asym_sam_26_avg_dit_correction_rms vs run
χ^2 / ndf 2.067e+05 / 90
p0 389 ± 0.3077
900
800
700
600
500
400
300

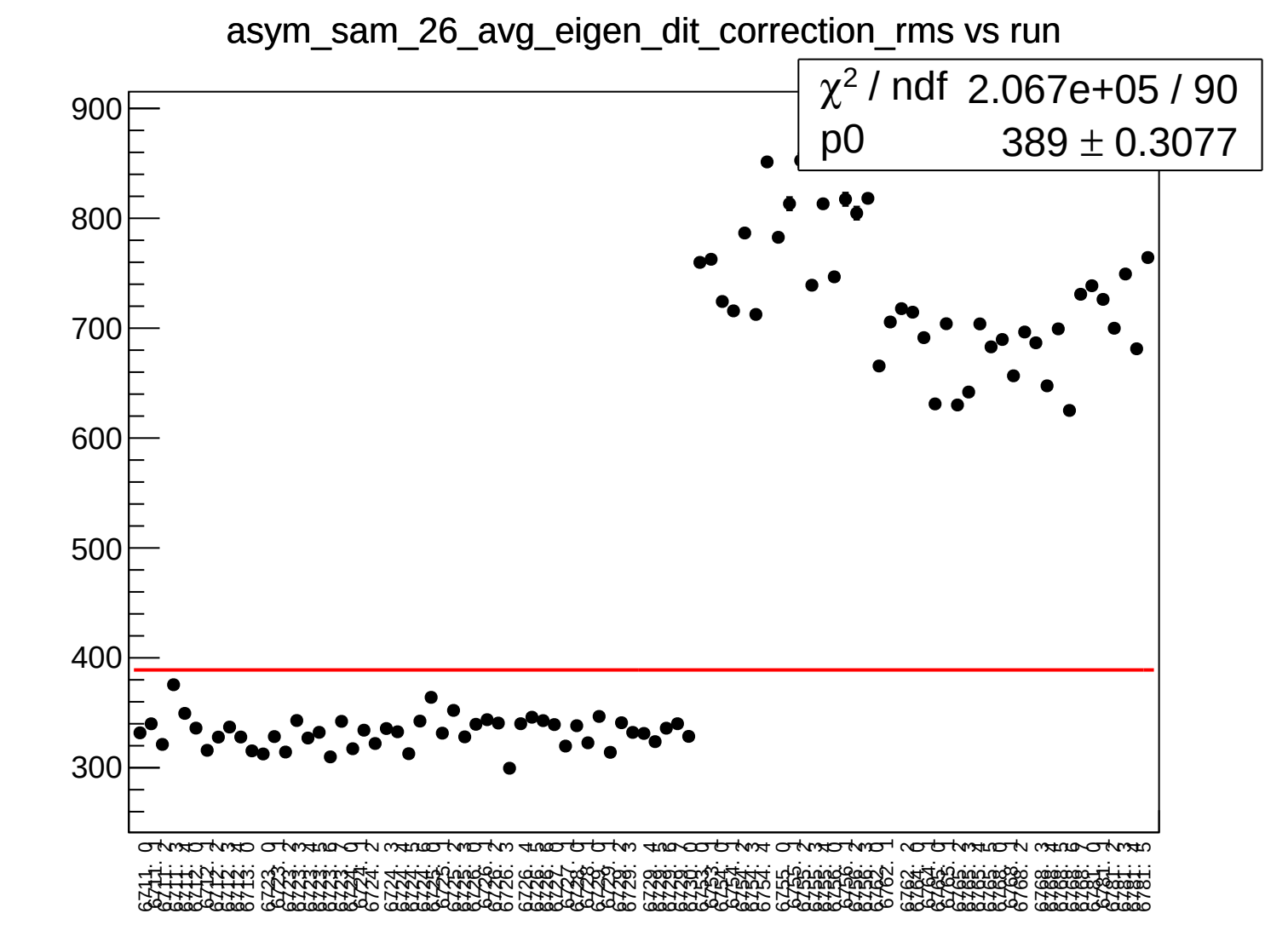

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 109.2 / 90
p0 39.15 ± 131.9
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 69.91
Std Dev 42.59
3
2
1
0
−1
−2

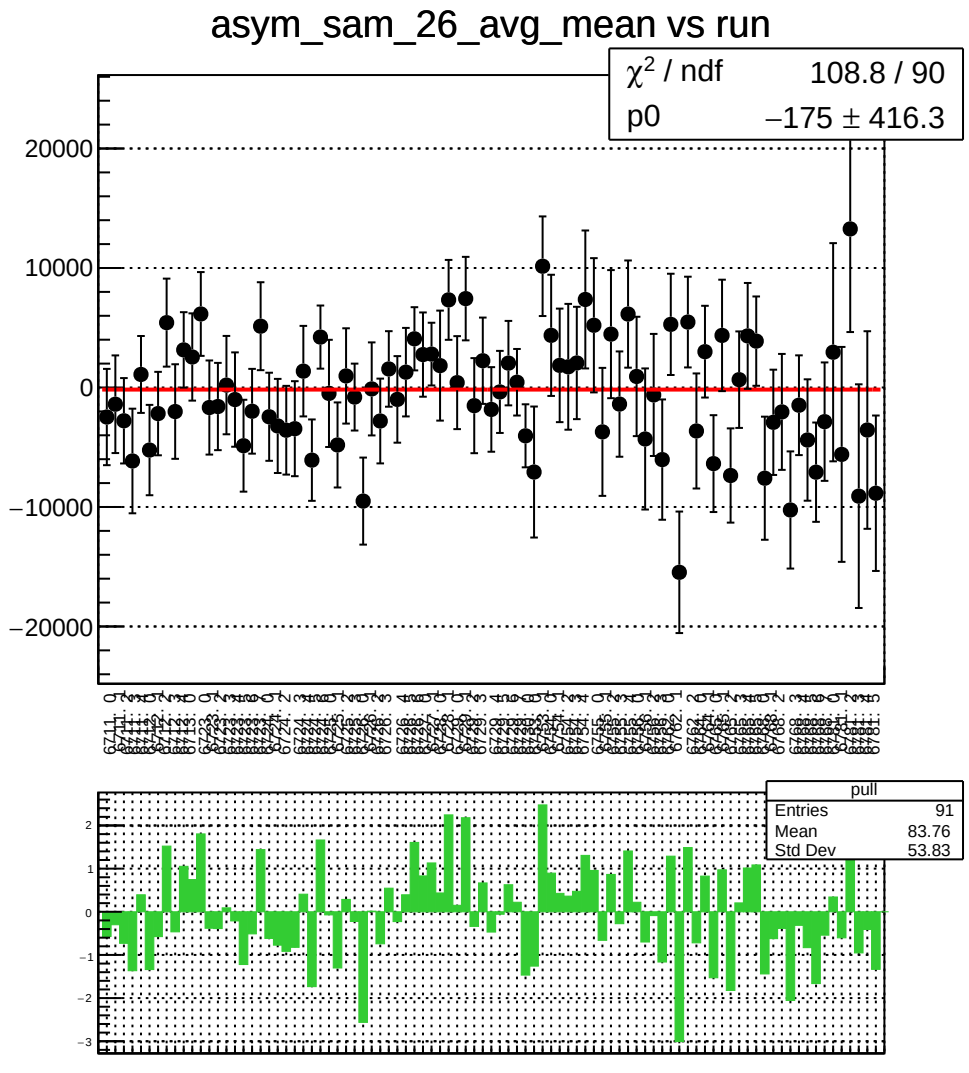

pull1D
Entries 91
Mean 0.05707
Std Dev 1.094
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

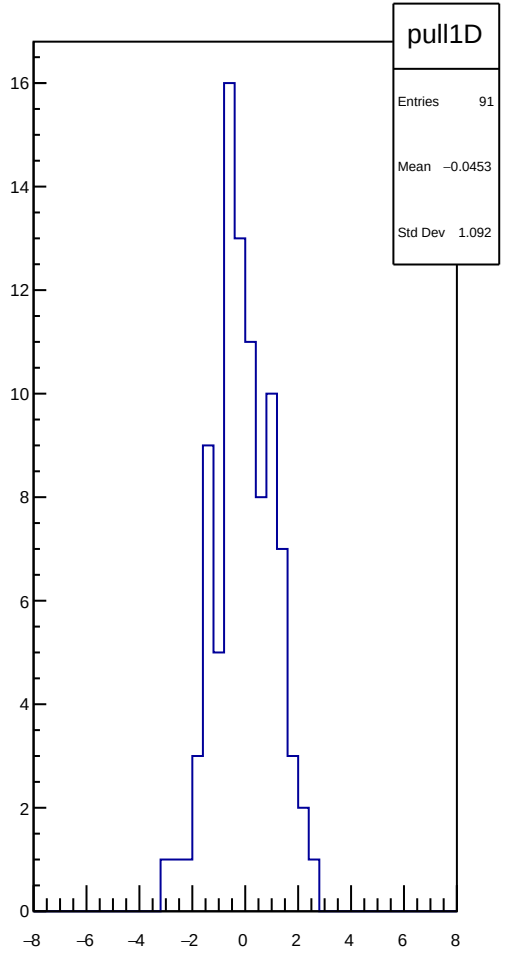

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 3.104e+05 / 90
p0 114 ± 0.09328
450
400
350
300
250
200
150
100

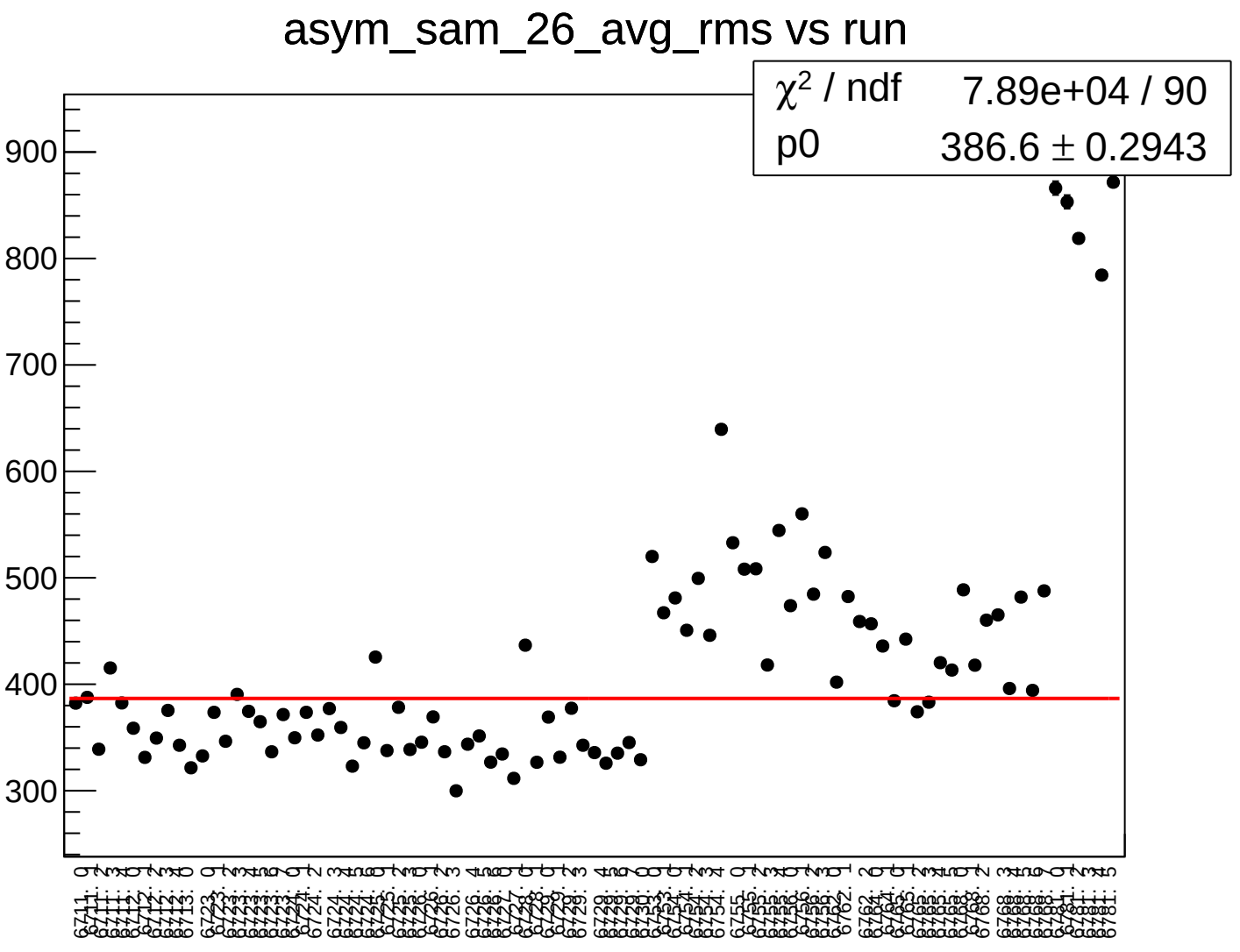

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 107.5 / 90
p0 279.1 ± 435.2
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 70.08
Std Dev 59.87
3
2
1
0
−1
−2

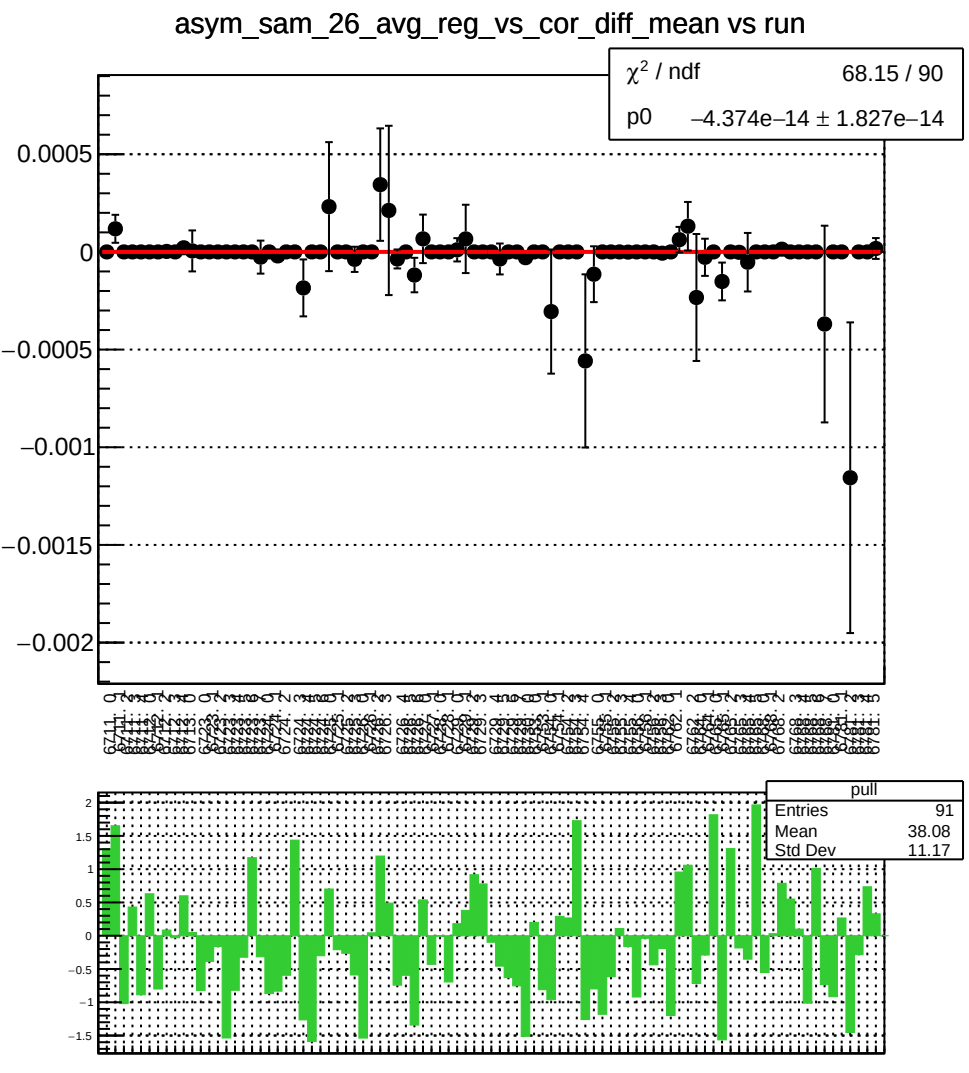

pull1D
Entries 91
Mean 0.05172
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

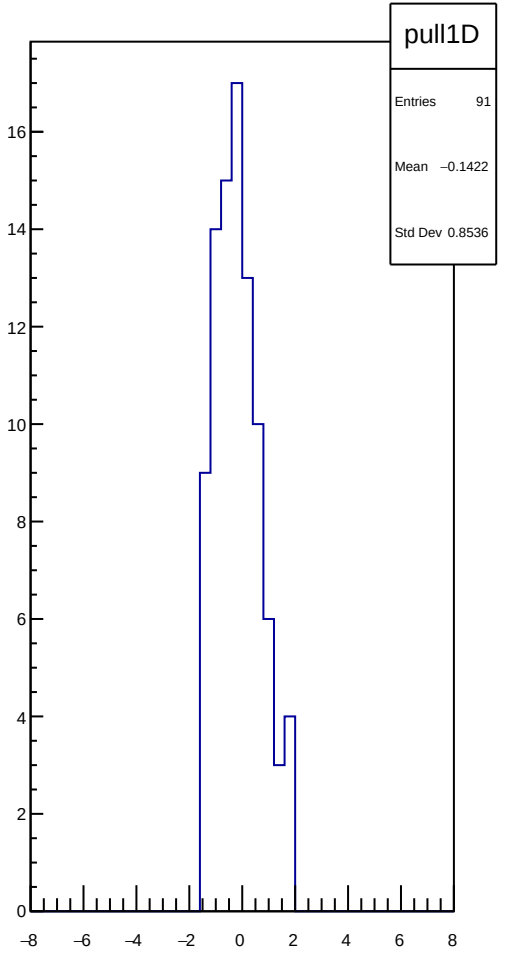

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 2.067e+05 / 90
p0 389 ± 0.3077
900
800
700
600
500
400
300

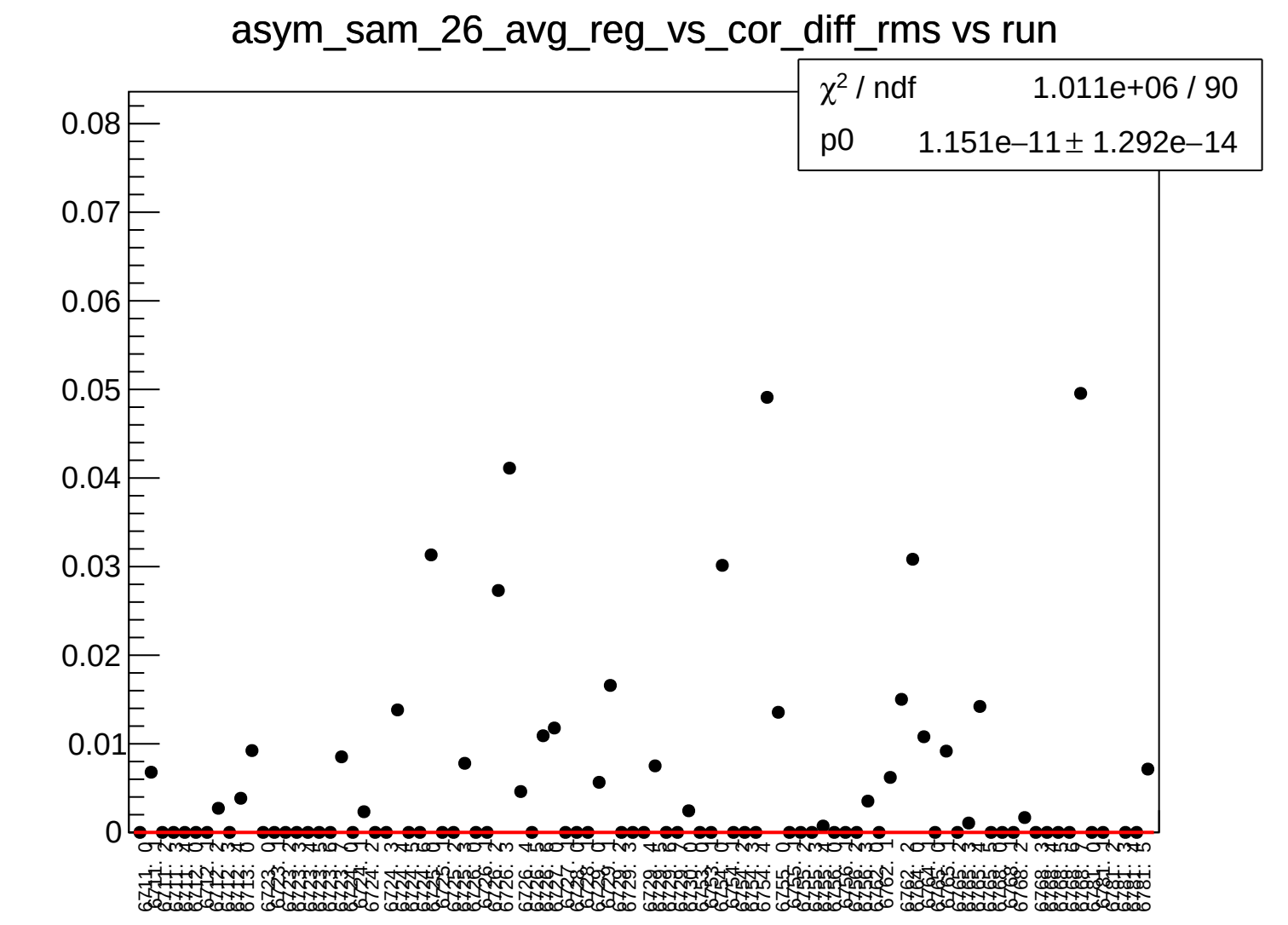

asym_sam_26_avg_mean vs run
χ² / ndf 108.8 / 90
p0 −175 ± 416.3
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 83.76
Std Dev 53.83
2
1
0
−1
−2
−3

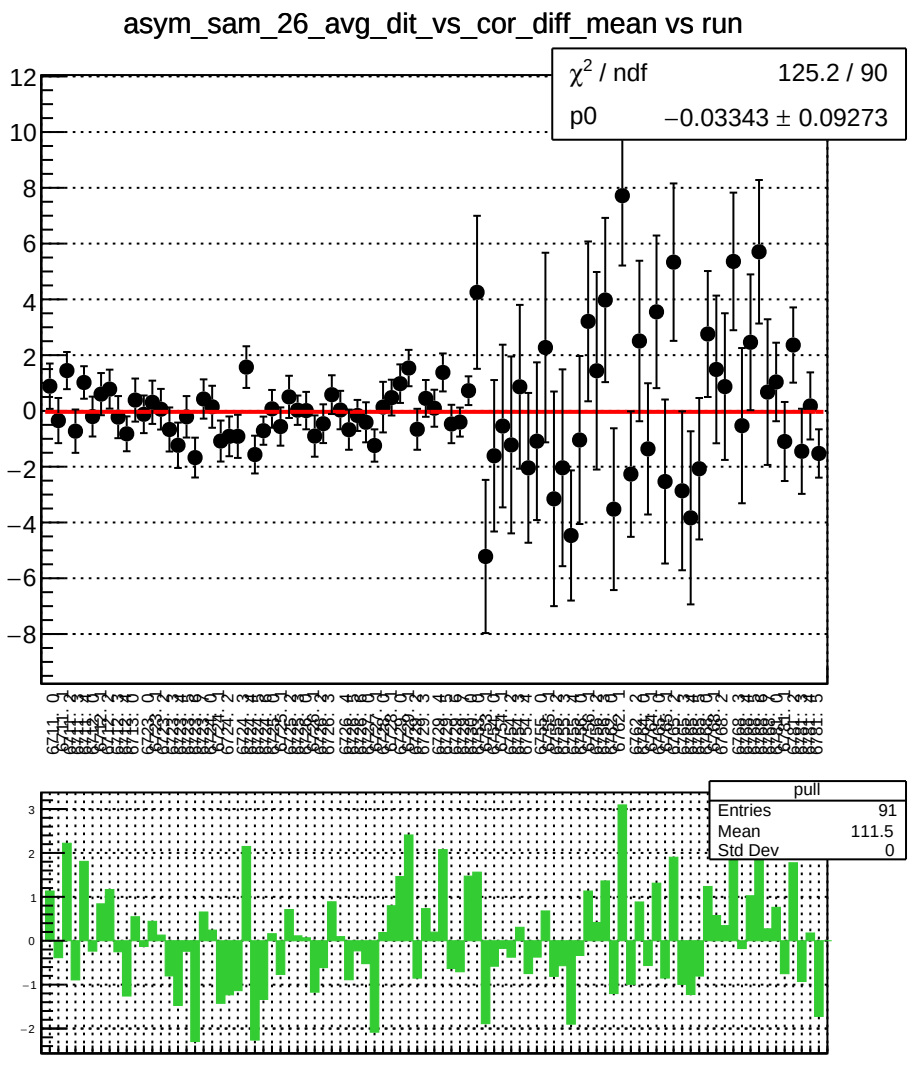

pull1D
Entries 91
Mean −0.0453
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

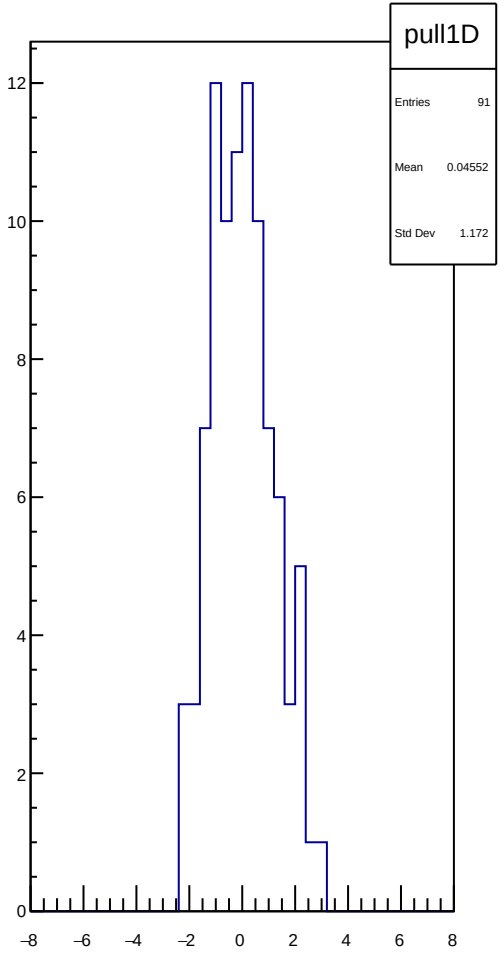

asym_sam_26_avg_rms vs run
χ^2 / ndf 7.89e+04 / 90
p0 386.6 ± 0.2943
900
800
700
600
500
400
300

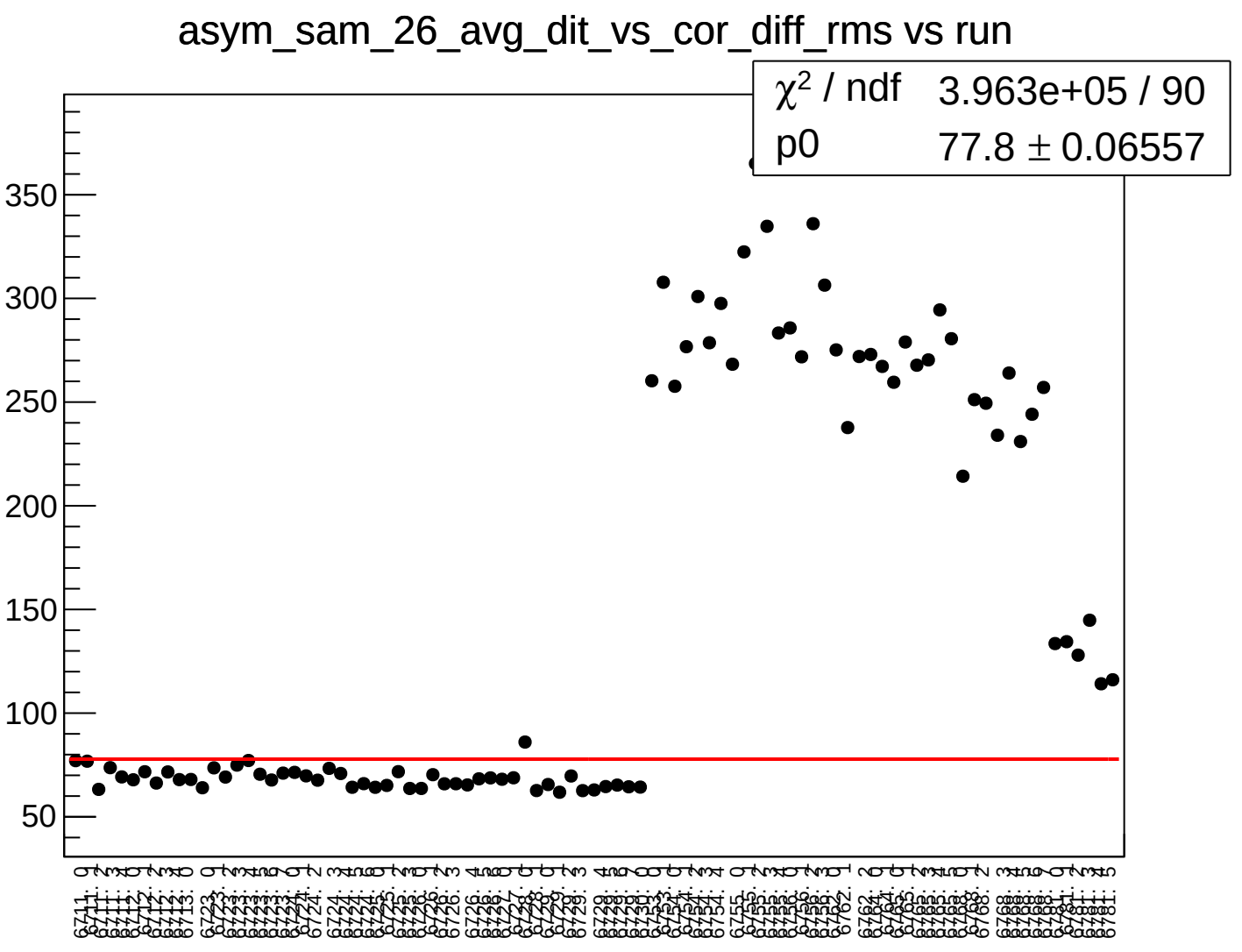

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 68.15 / 90
p0 −4.374e−14 ± 1.827e−14
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 91
Mean 38.08
Std Dev 11.17
2
1.5
1
0.5
0
−0.5
−1
−1.5

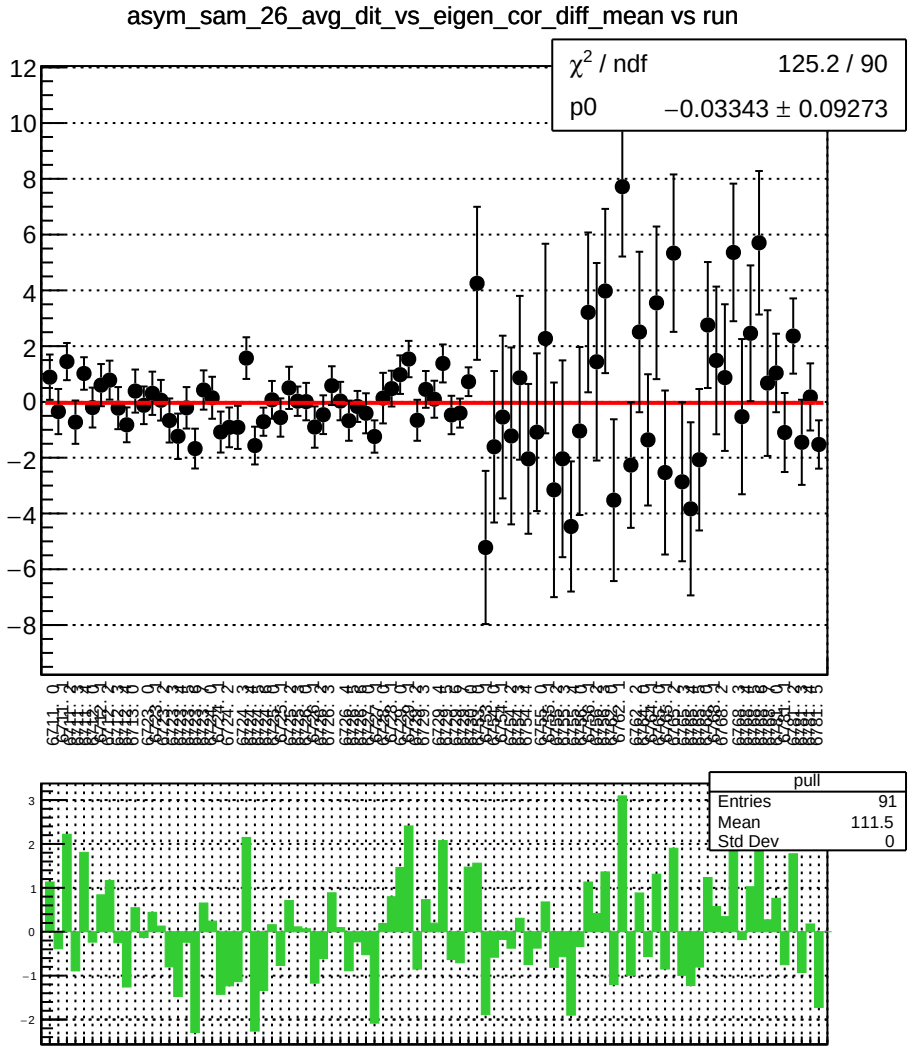

pull1D
Entries 91
Mean −0.1422
Std Dev 0.8536
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

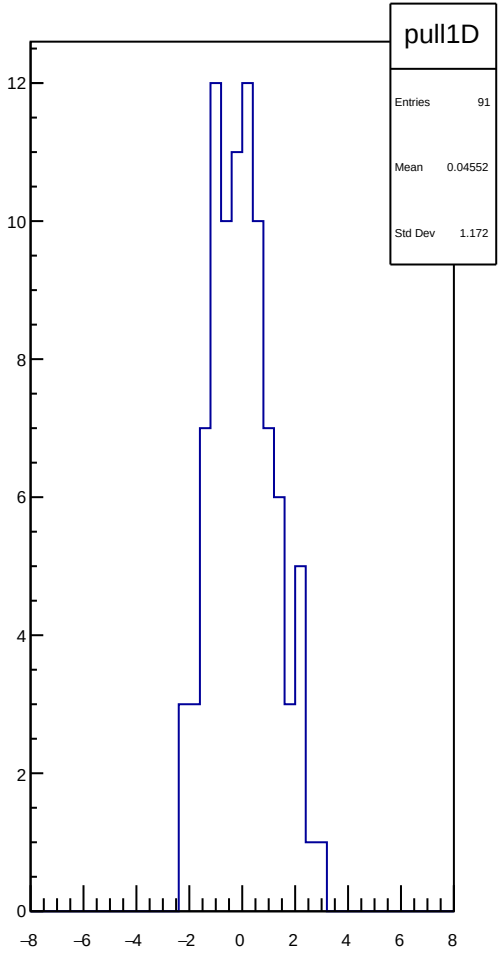

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.011e+06 / 90
p0 1.151e−11 ± 1.292e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

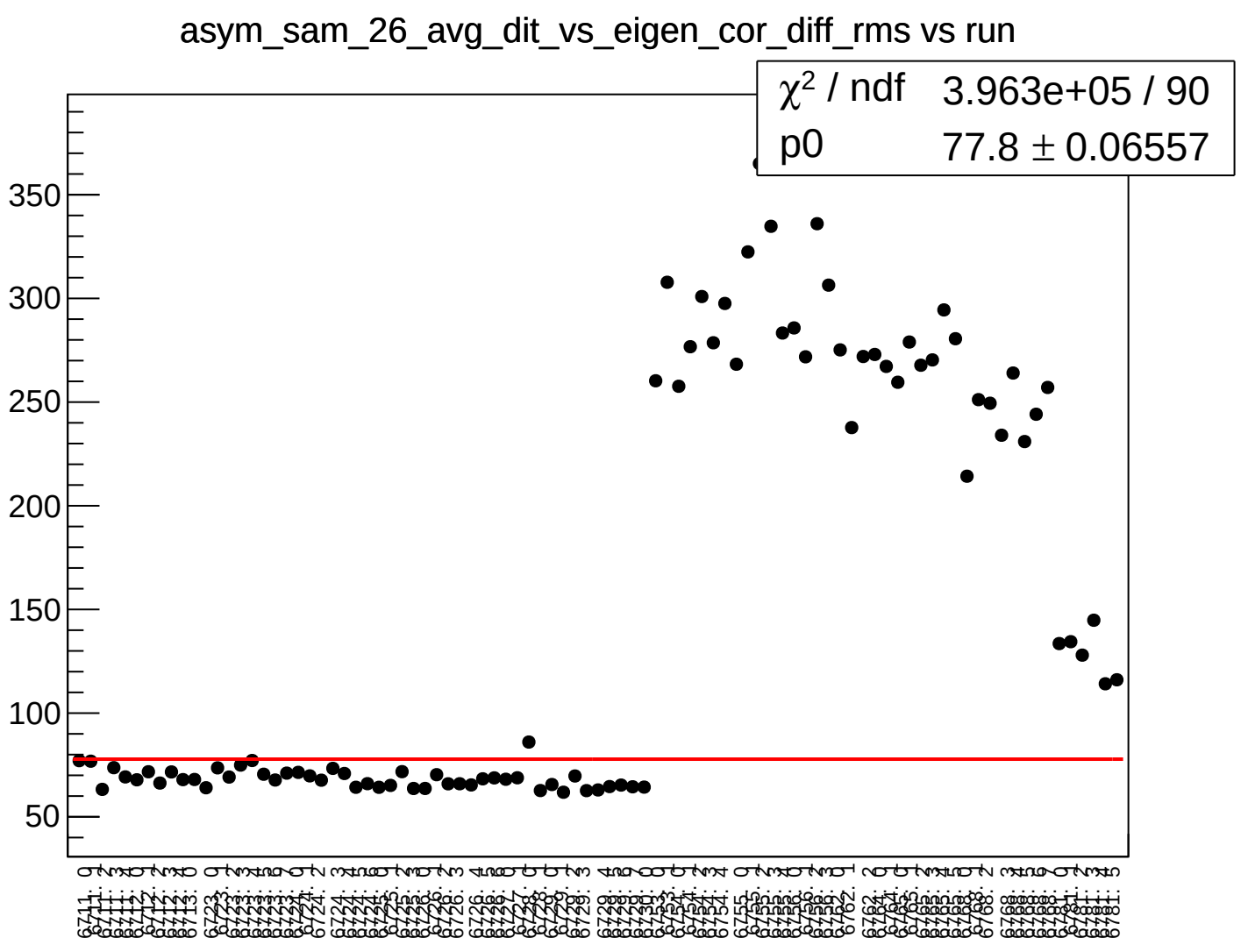

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 125.2 / 90
p0 −0.03343 ± 0.09273
pull
Entries 91
Mean 111.5
Std Dev 0

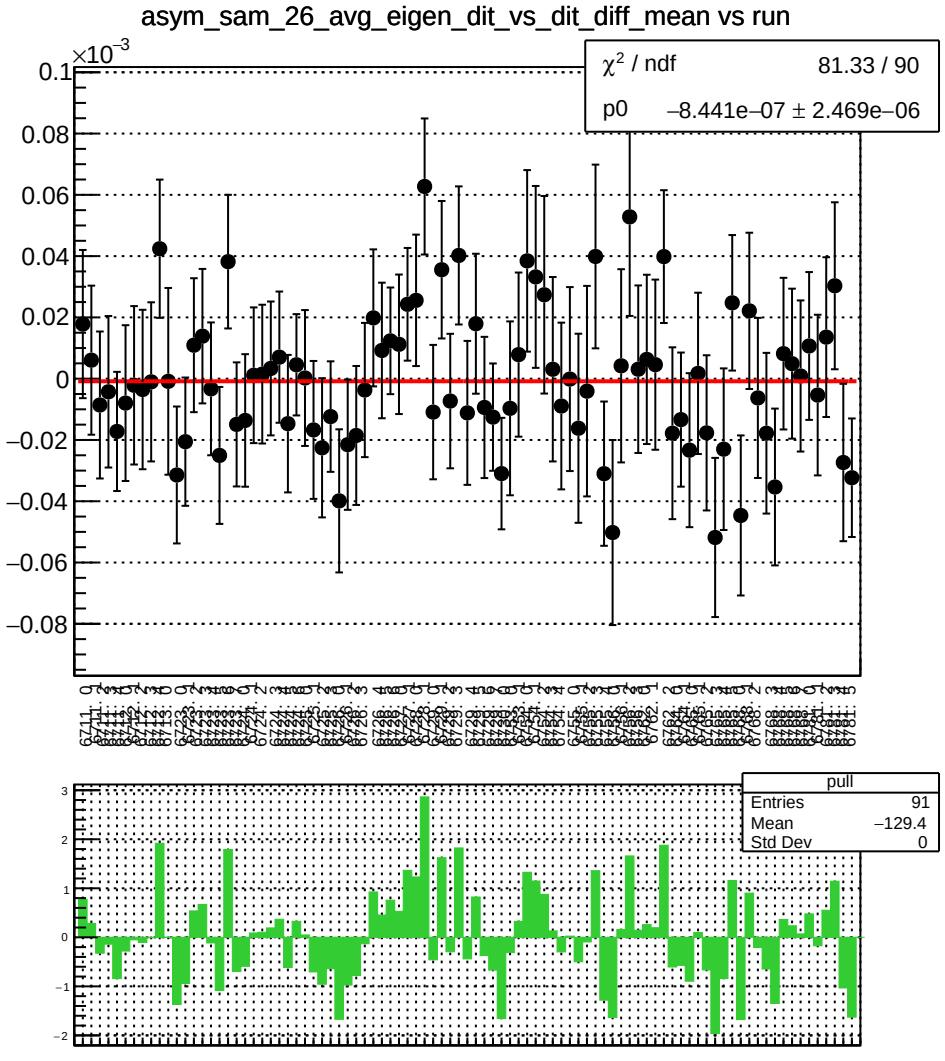

pull1D
Entries 91
Mean 0.04552
Std Dev 1.172

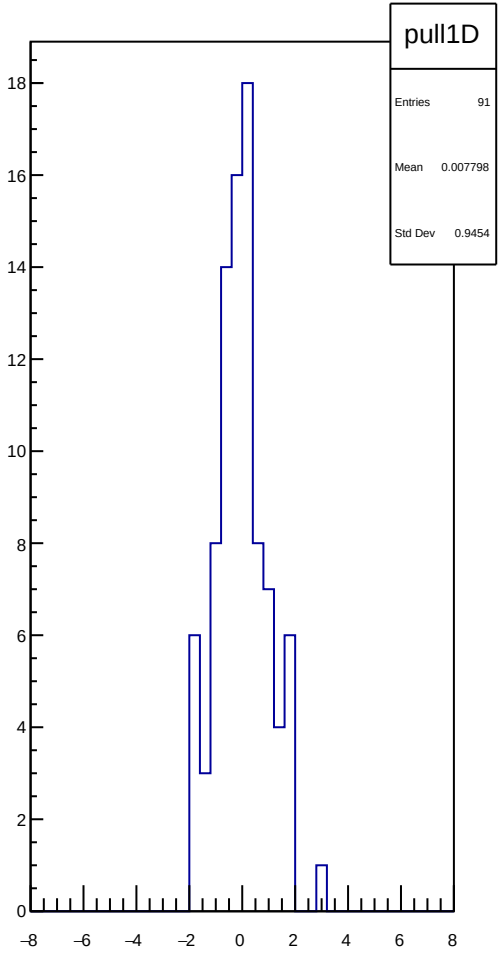

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.963e+05 / 90
p0 77.8 ± 0.06557
350
300
250
200
150
100
50

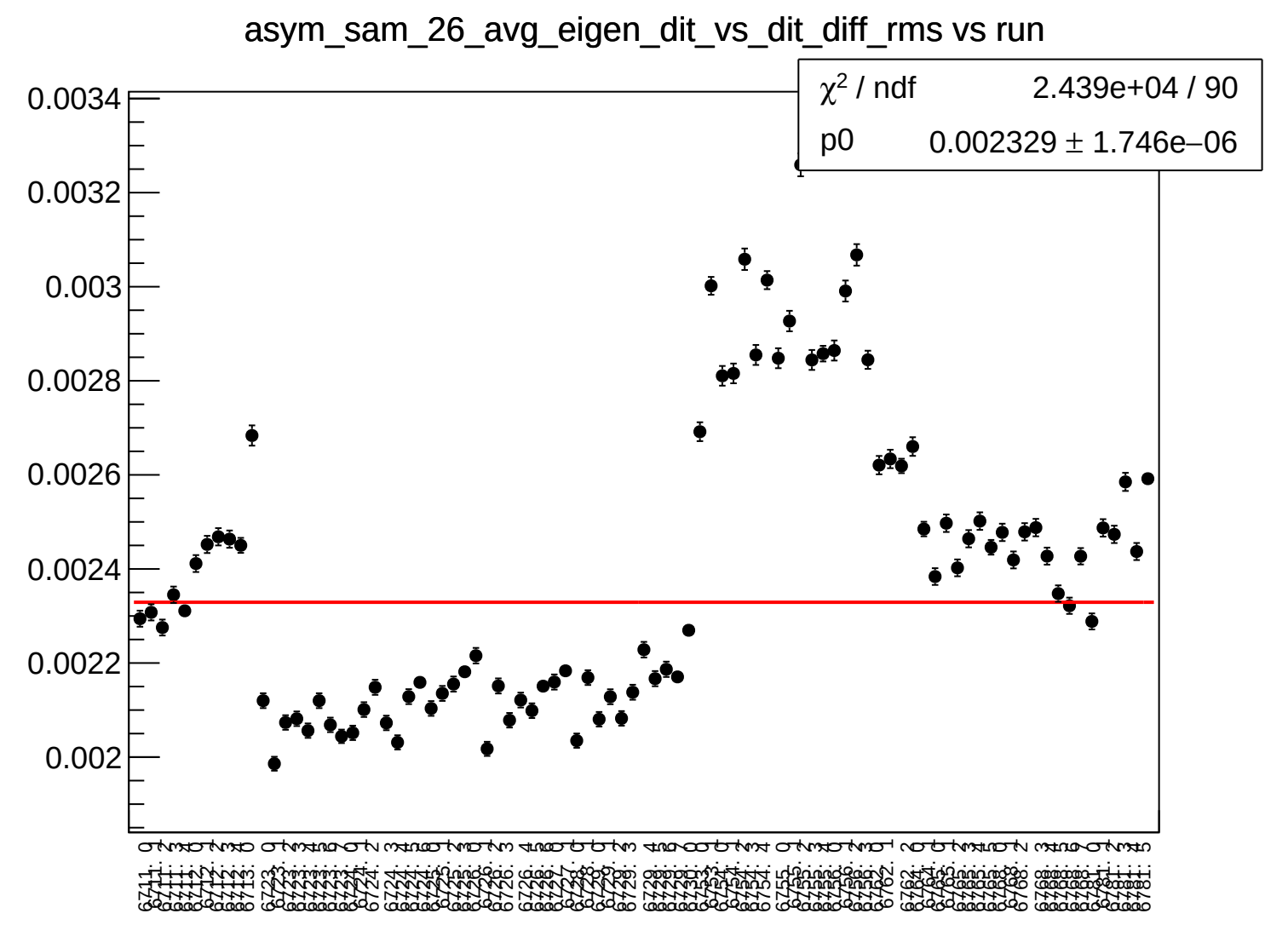

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 125.2 / 90
p0 −0.03343 ± 0.09273
pull
Entries 91
Mean 111.5
Std Dev 0

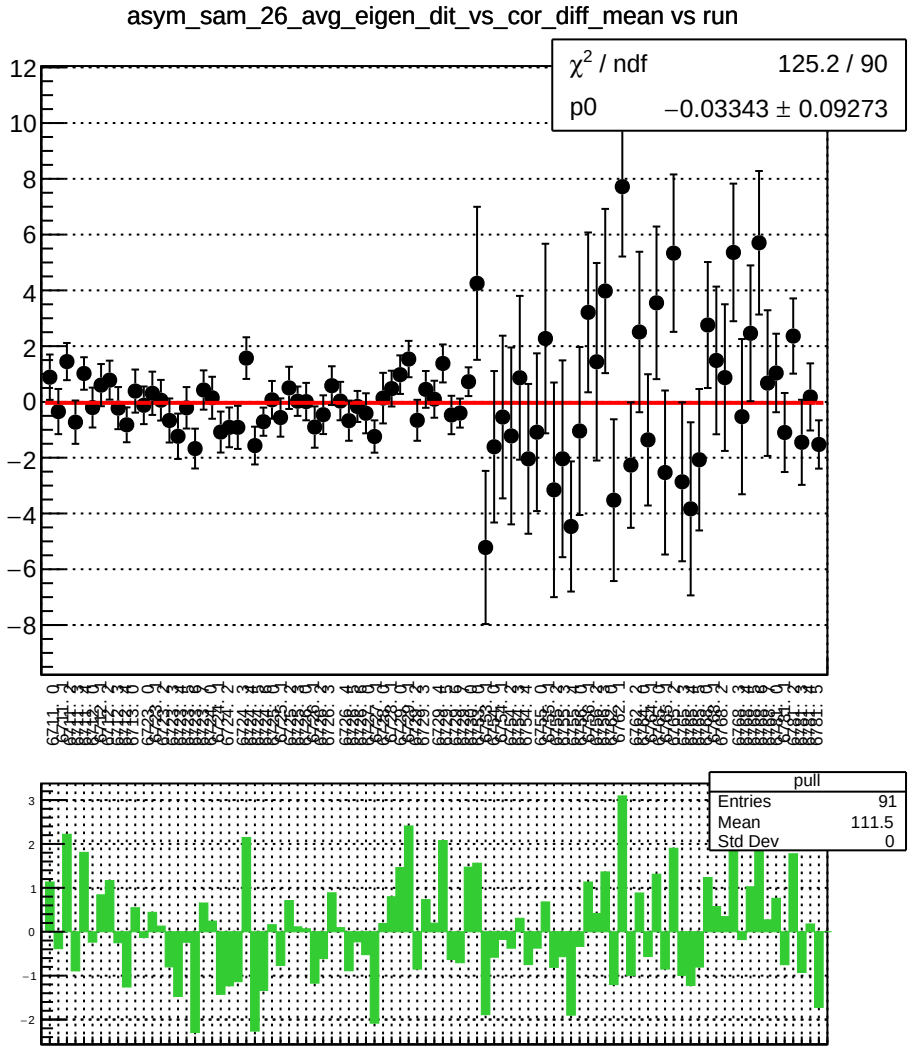

pull1D
Entries 91
Mean 0.04552
Std Dev 1.172

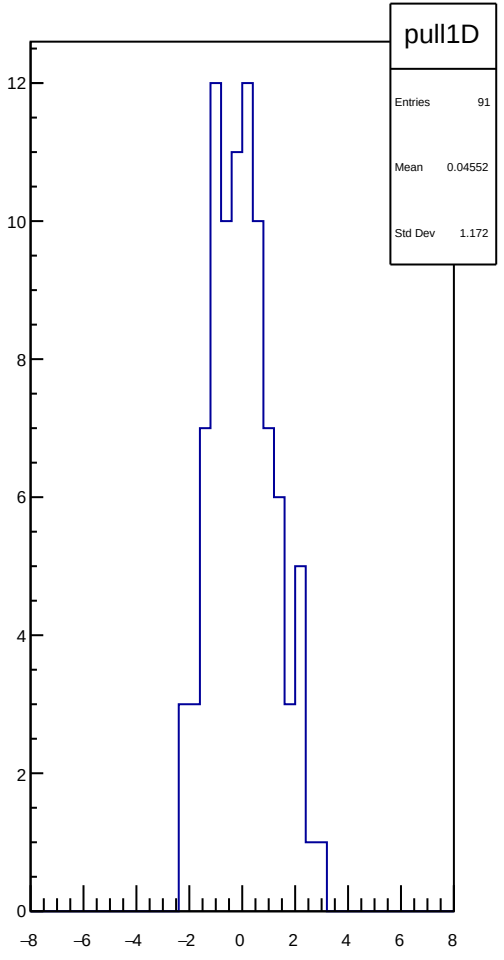

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.963e+05 / 90
p0 77.8 ± 0.06557
350
300
250
200
150
100
50

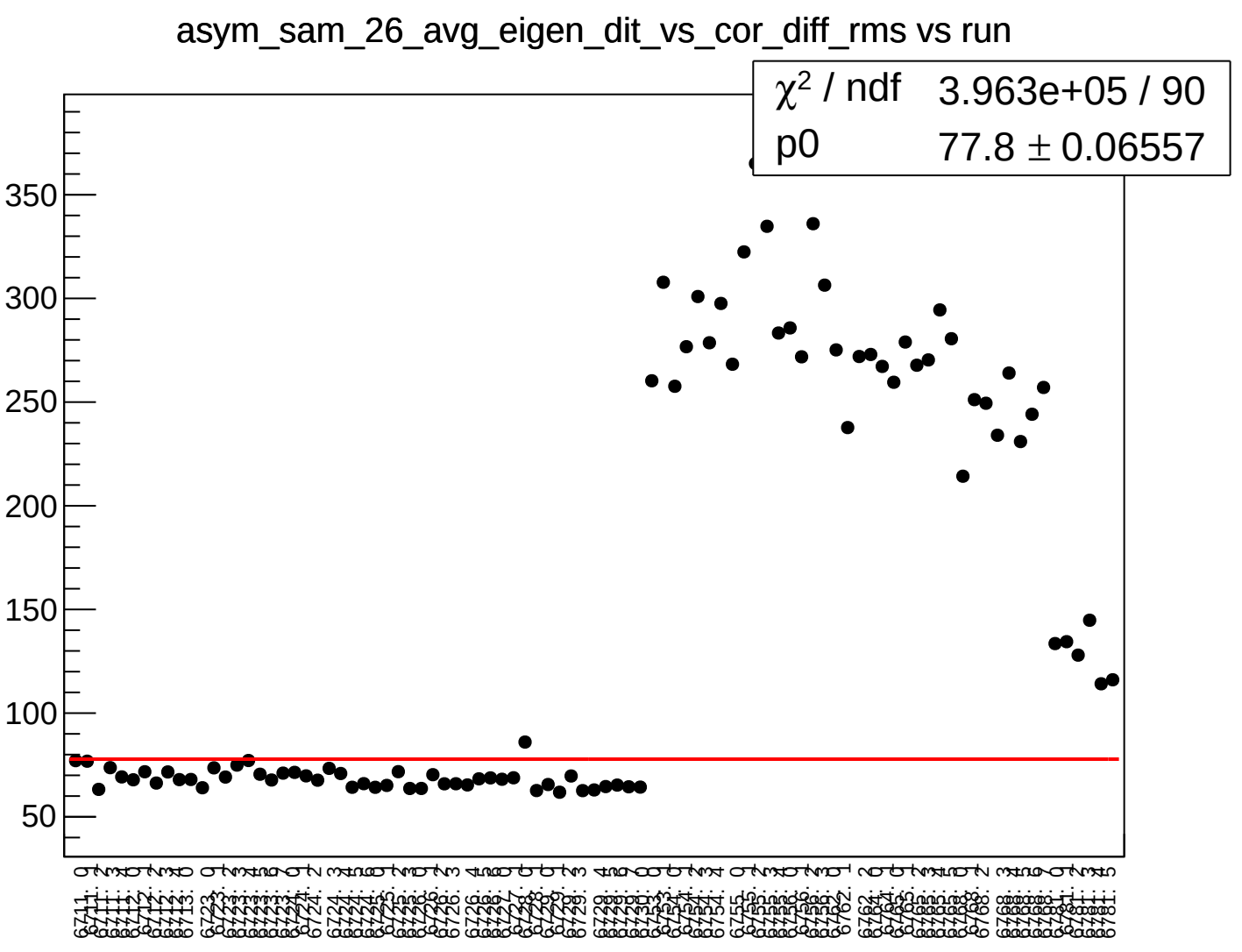

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.33 / 90
p0 −8.441e−07 ± 2.469e−06
pull
Entries 91
Mean −129.4
Std Dev 0

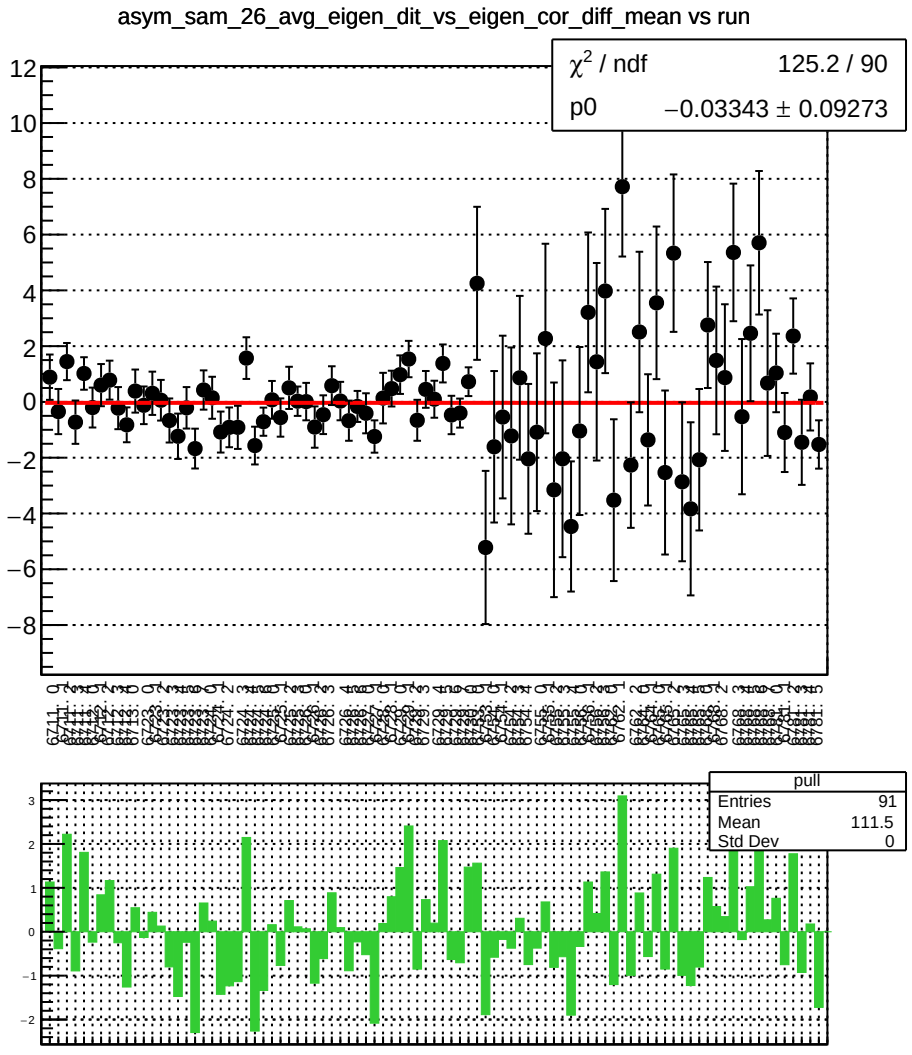

pull1D
Entries 91
Mean 0.007798
Std Dev 0.9454

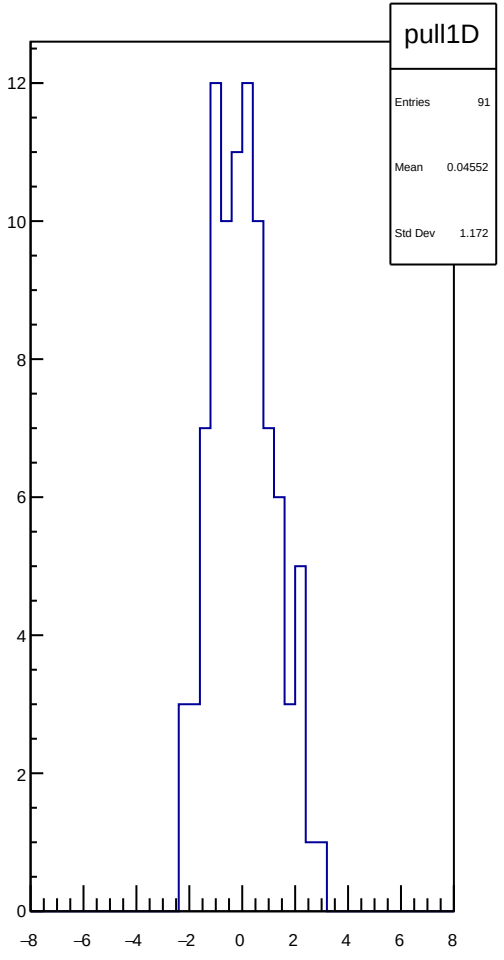

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.439e+04 / 90
p0 0.002329 ± 1.746e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

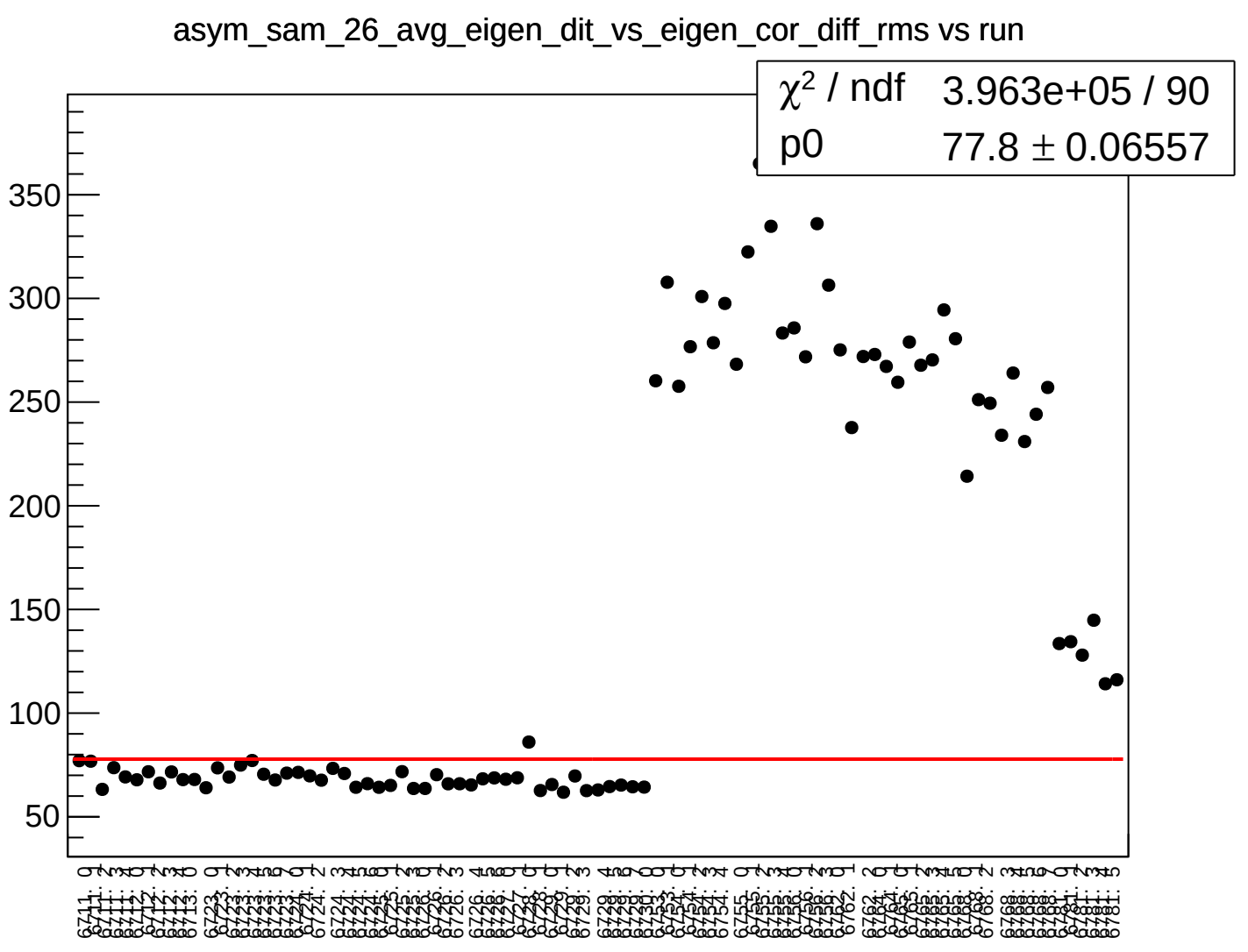

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 125.2 / 90
p0 −0.03343 ± 0.09273
pull
Entries 91
Mean 111.5
Std Dev 0

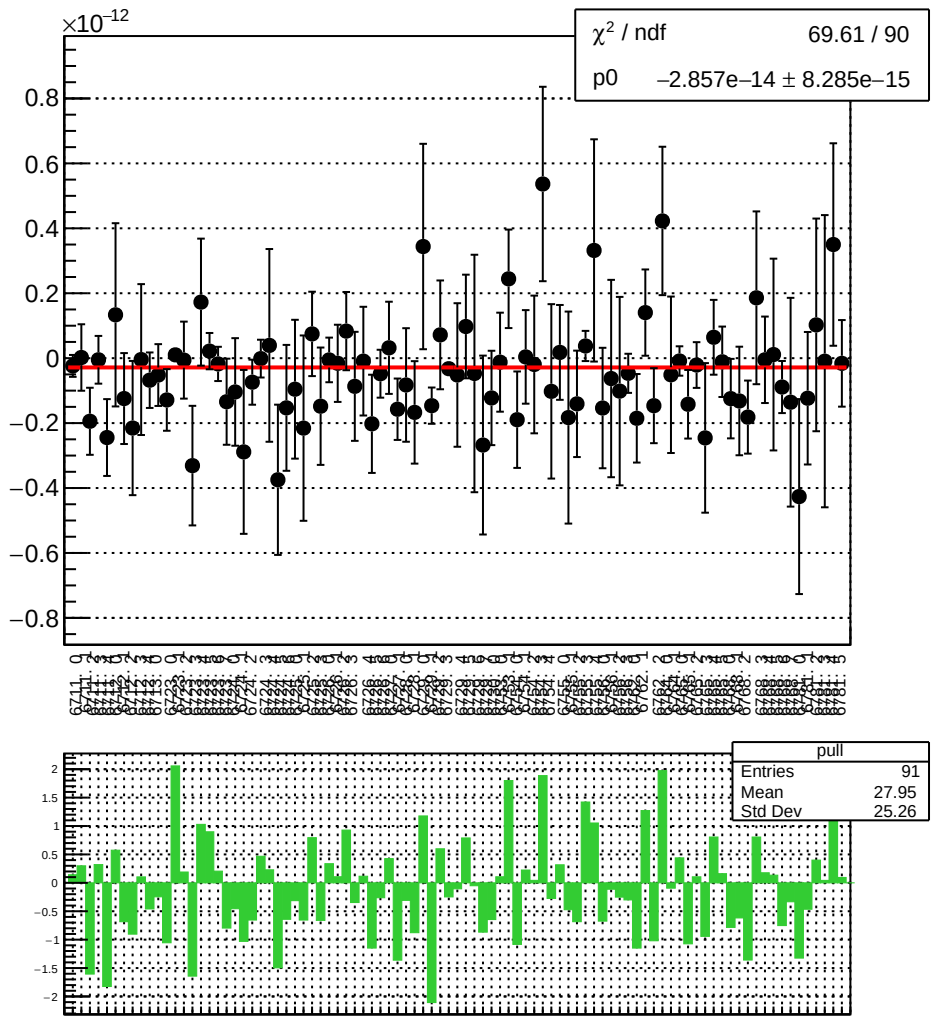

pull1D
Entries 91
Mean 0.04552
Std Dev 1.172

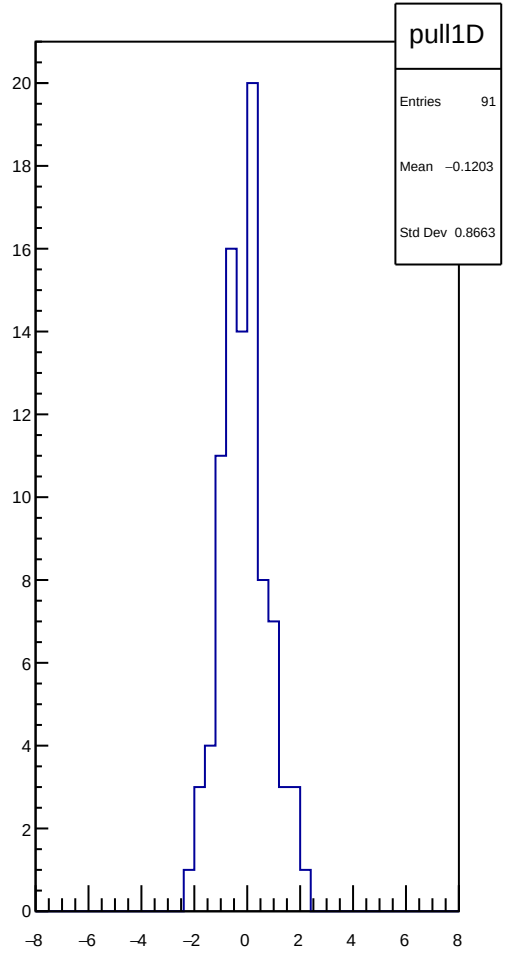

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.963e+05 / 90
p0 77.8 ± 0.06557
350
300
250
200
150
100
50

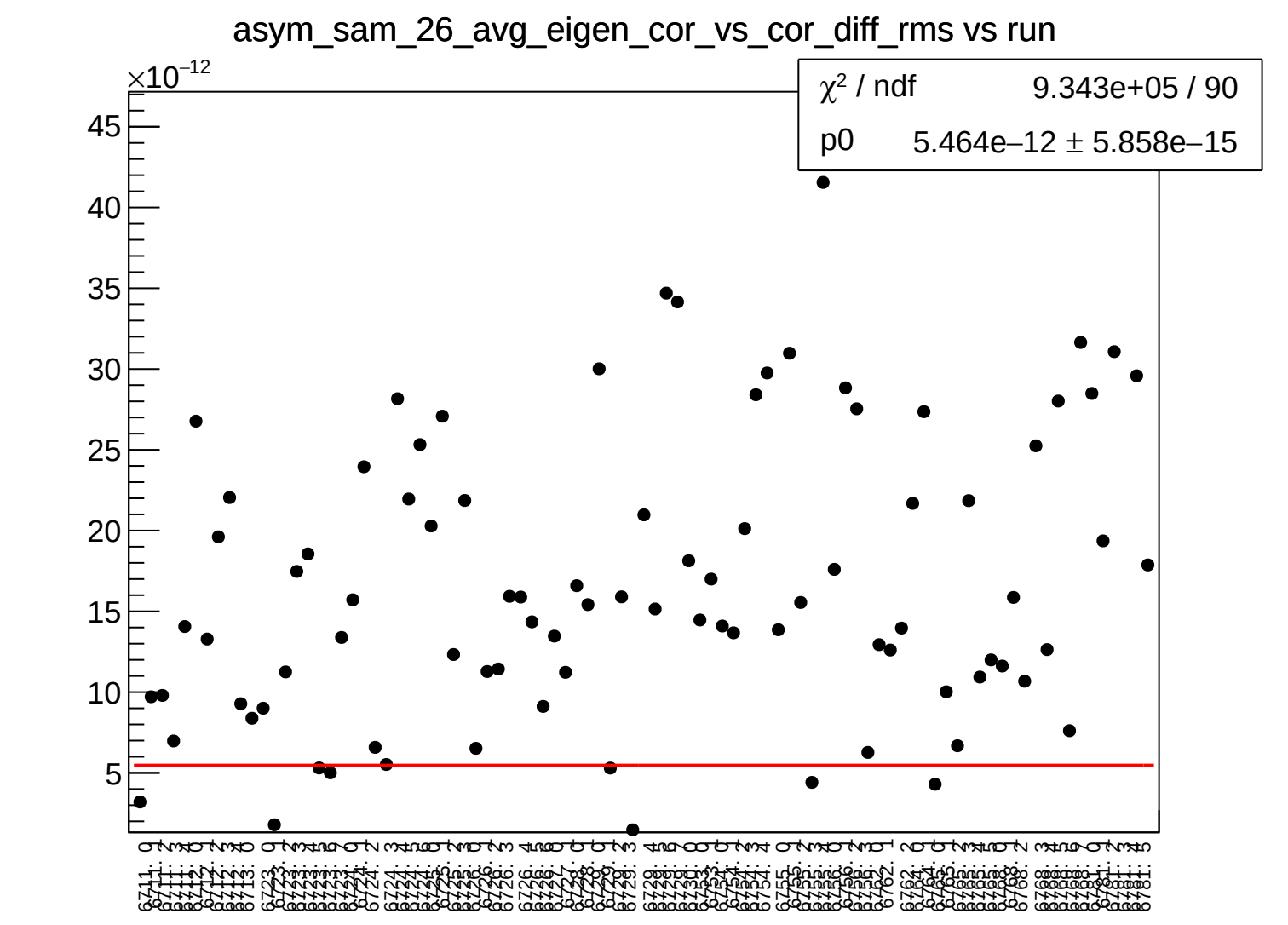

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 125.2 / 90
p0 −0.03343 ± 0.09273
pull
Entries 91
Mean 111.5
Std Dev 0

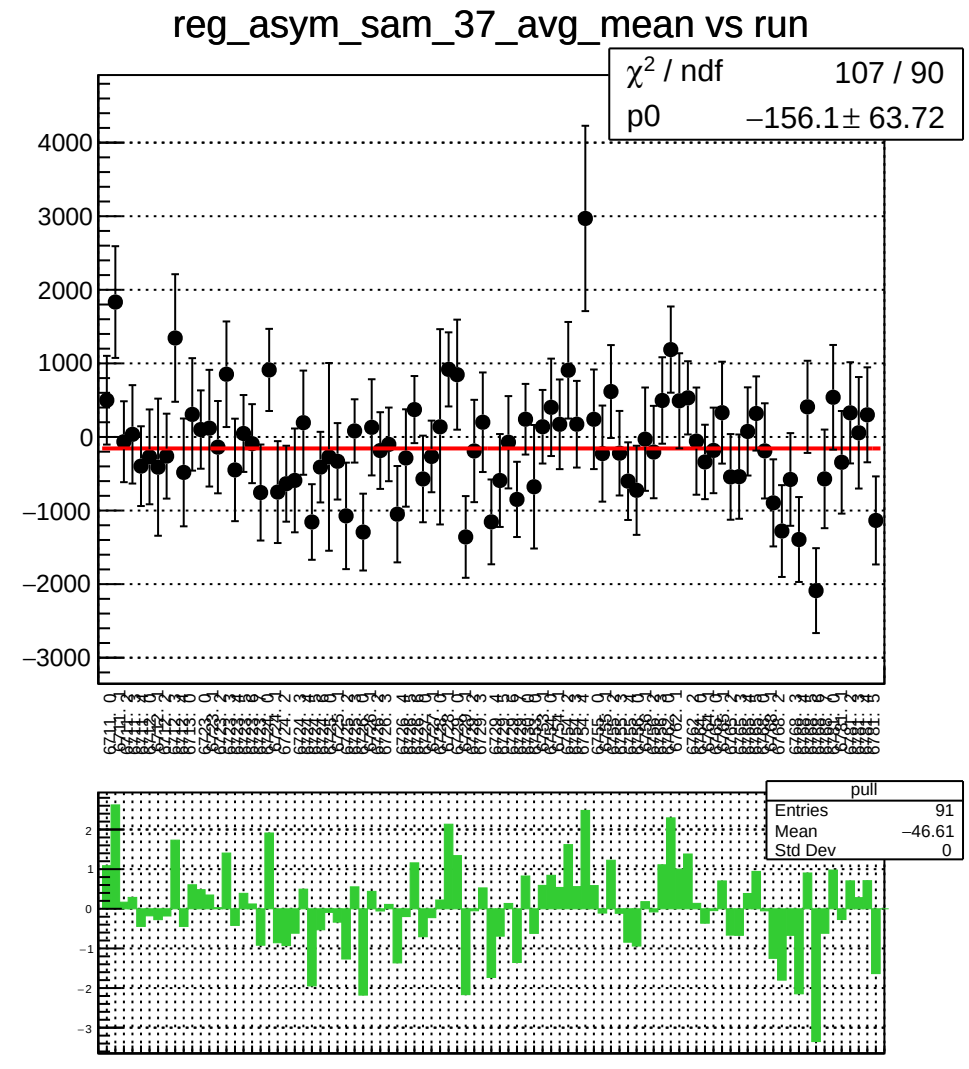

pull1D
Entries 91
Mean 0.04552
Std Dev 1.172

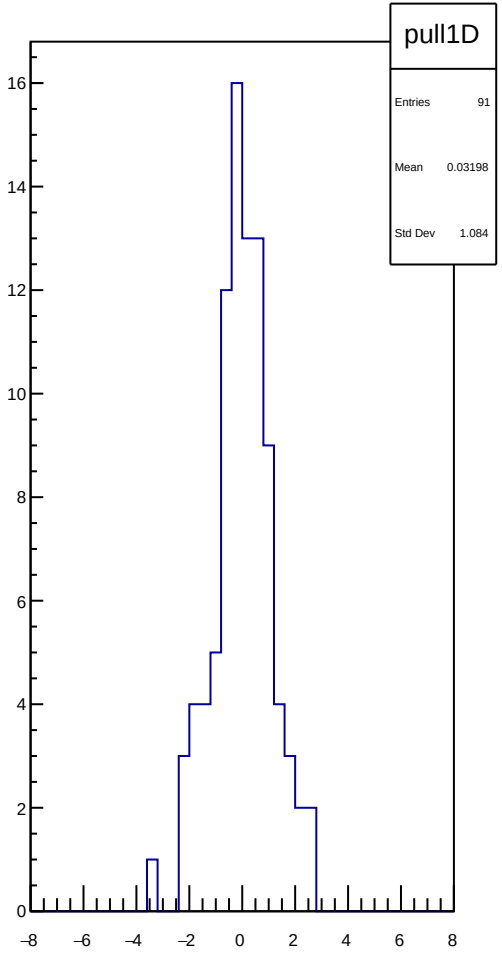

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.963e+05 / 90
p0 77.8 ± 0.06557
350
300
250
200
150
100
50

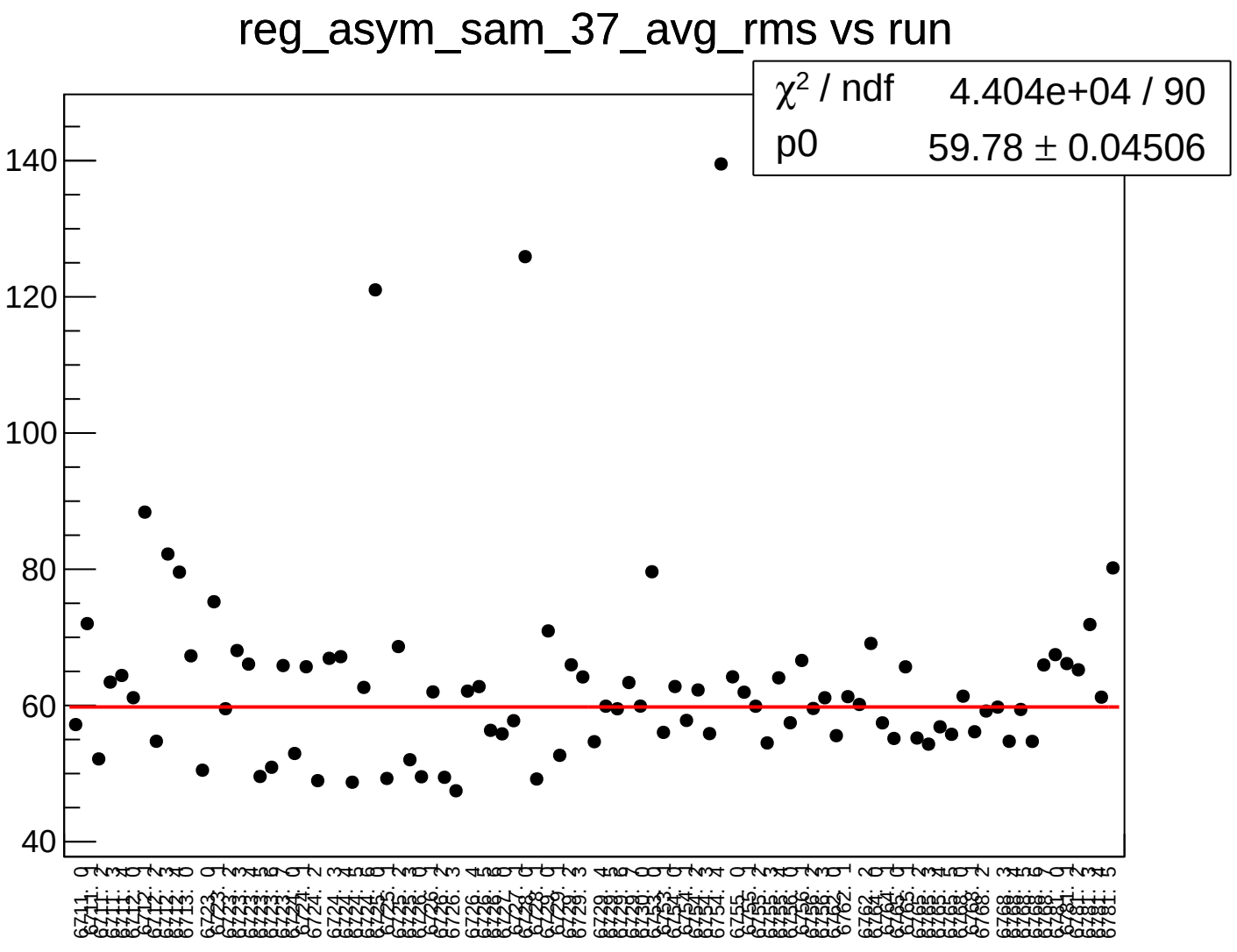

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.61 / 90
p0 −2.857e−14 ± 8.285e−15
pull
Entries 91
Mean 27.95
Std Dev 25.26

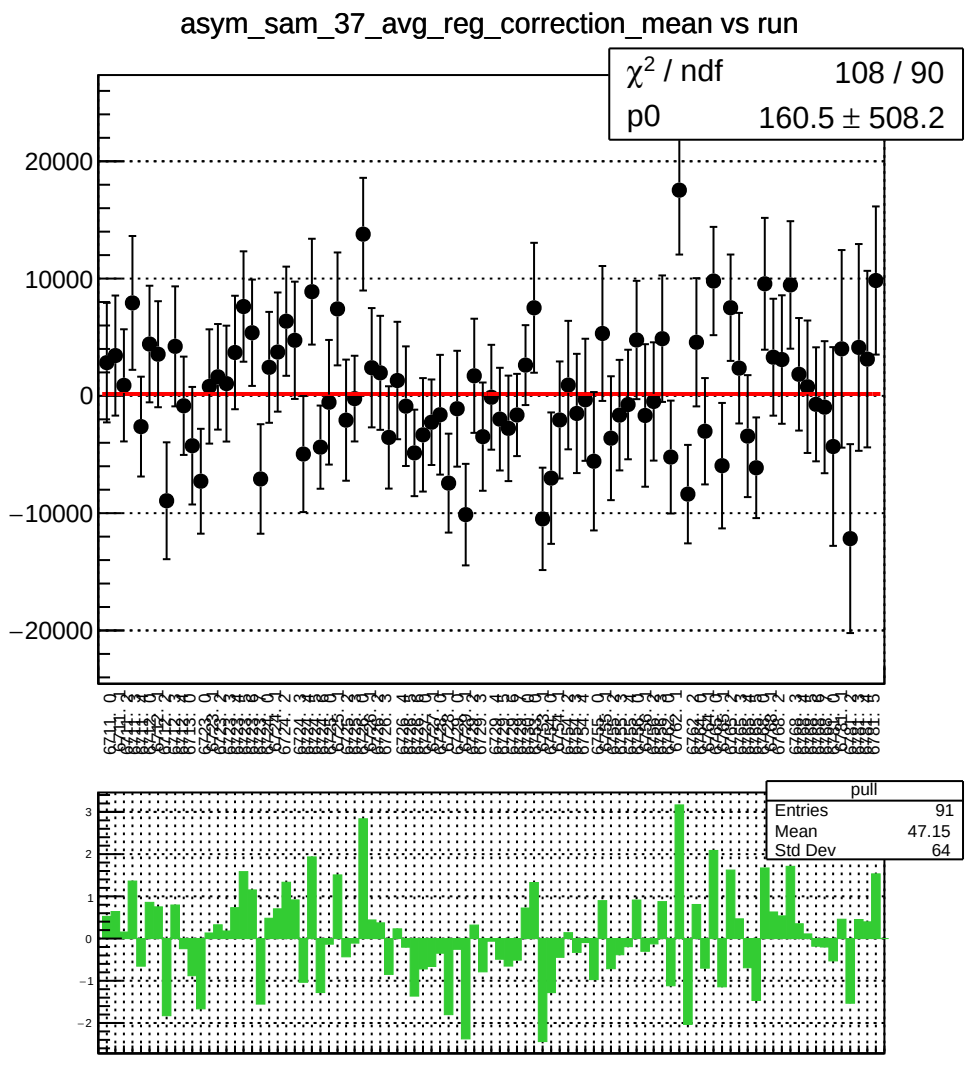

pull1D
Entries 91
Mean −0.1203
Std Dev 0.8663

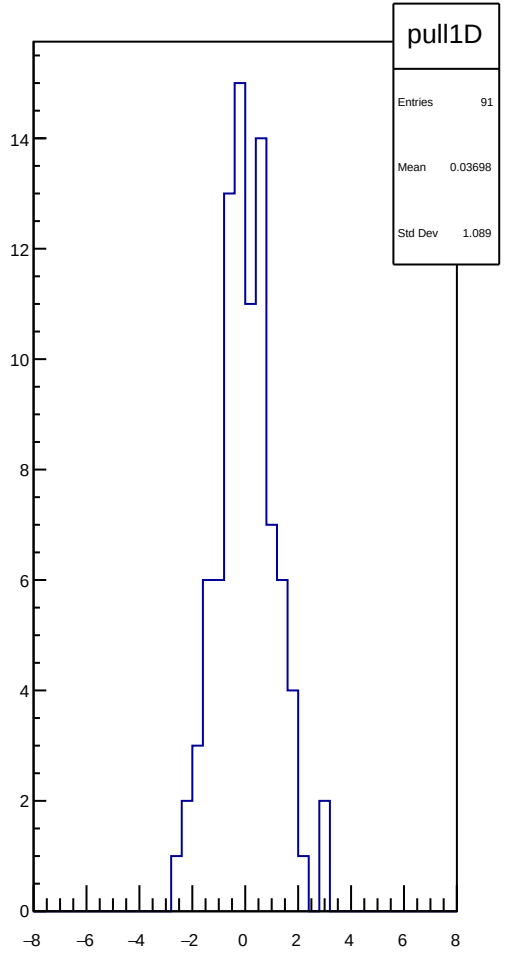

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.343e+05 / 90
p0 5.464e−12 ± 5.858e−15
45
40
35
30
25
20
15
10
5

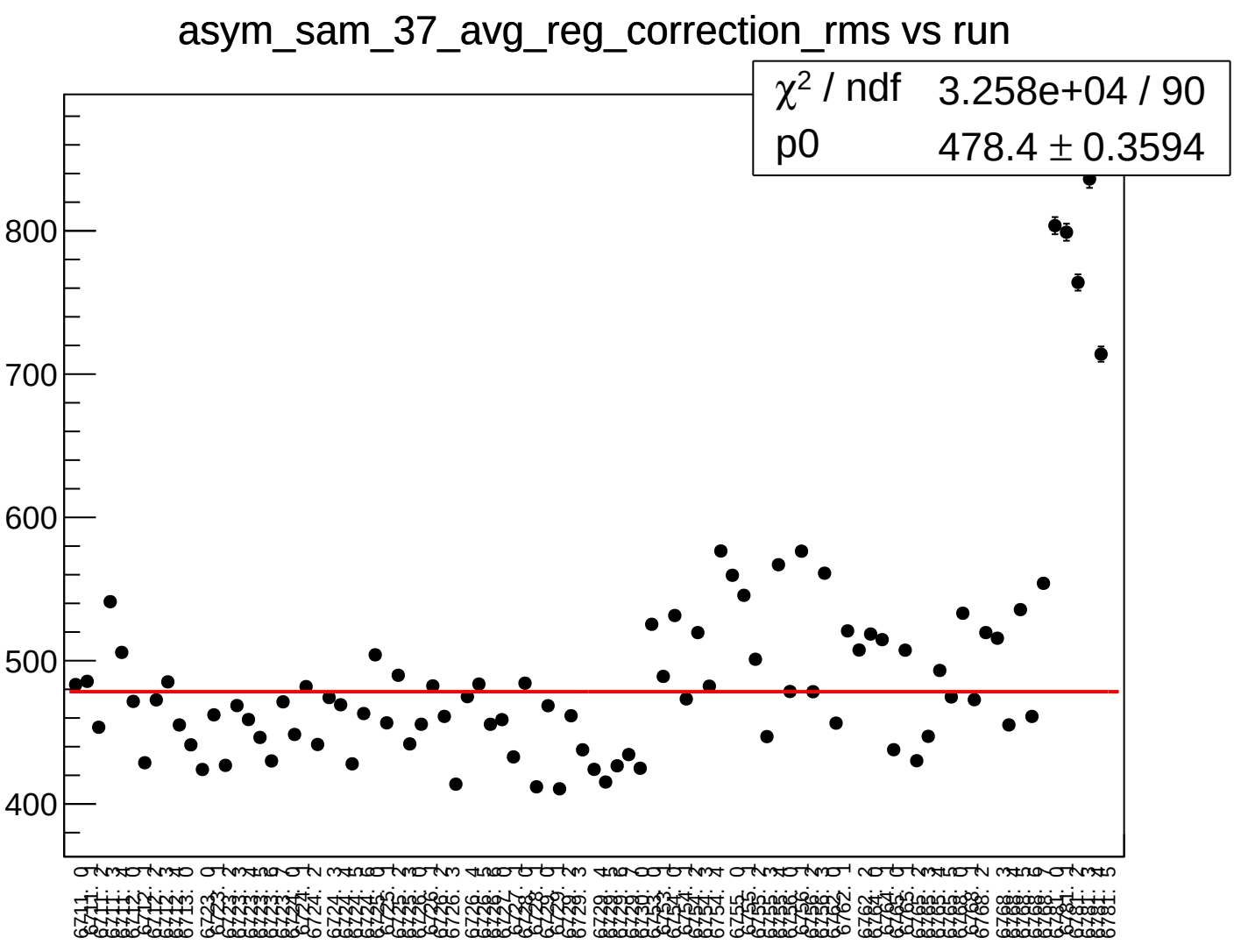

reg_asym_sam_37_avg_mean vs run
χ² / ndf 107 / 90
p0 −156.1± 63.72
pull
Entries 91
Mean −46.61
Std Dev 0

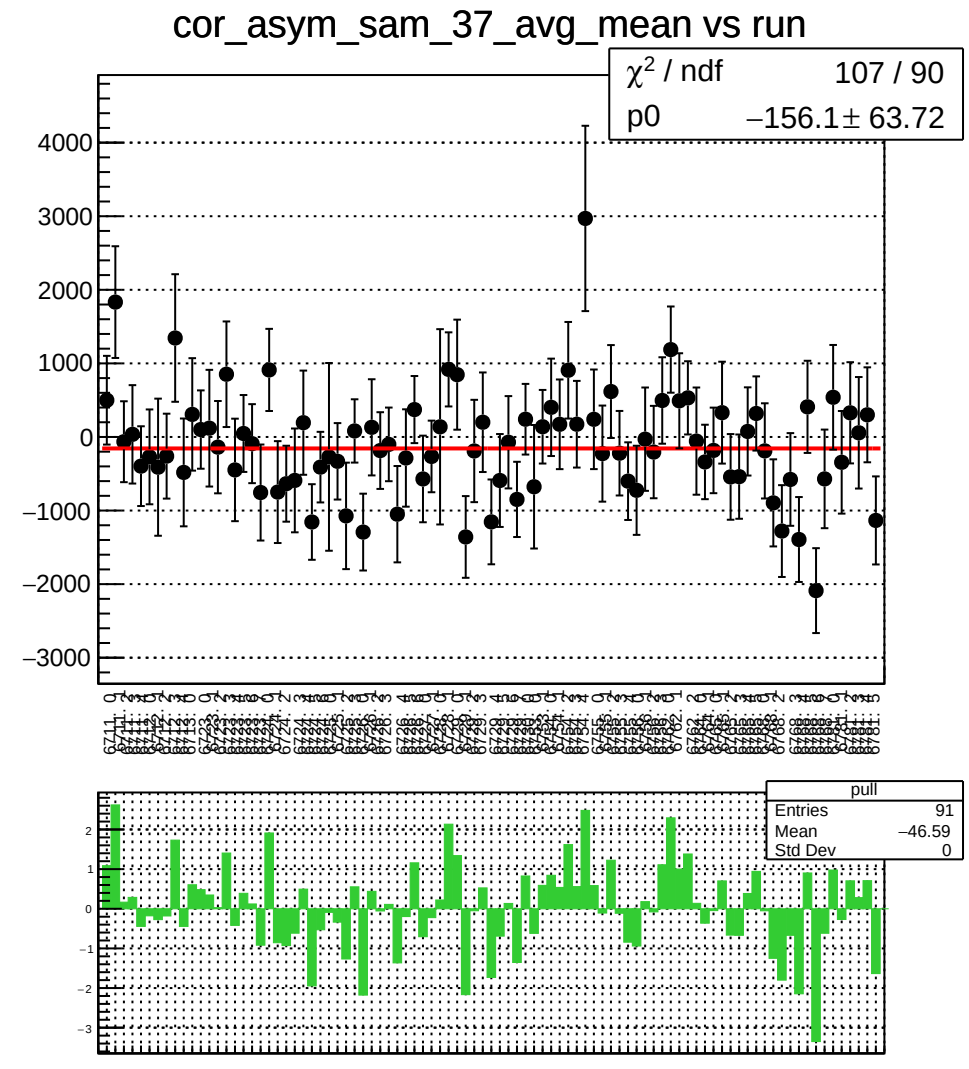

pull1D
Entries 91
Mean 0.03198
Std Dev 1.084

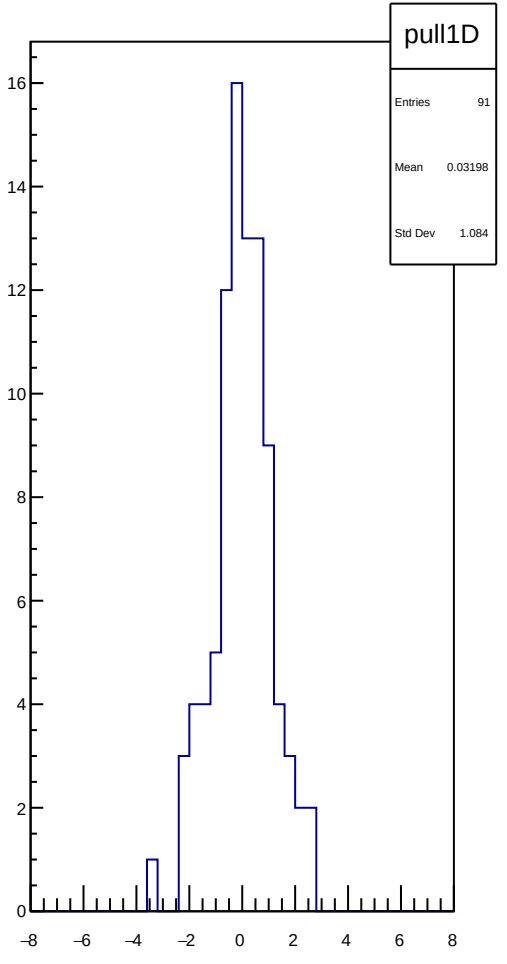

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 4.404e+04 / 90
p0 59.78 ± 0.04506
140
120
100
80
60
40

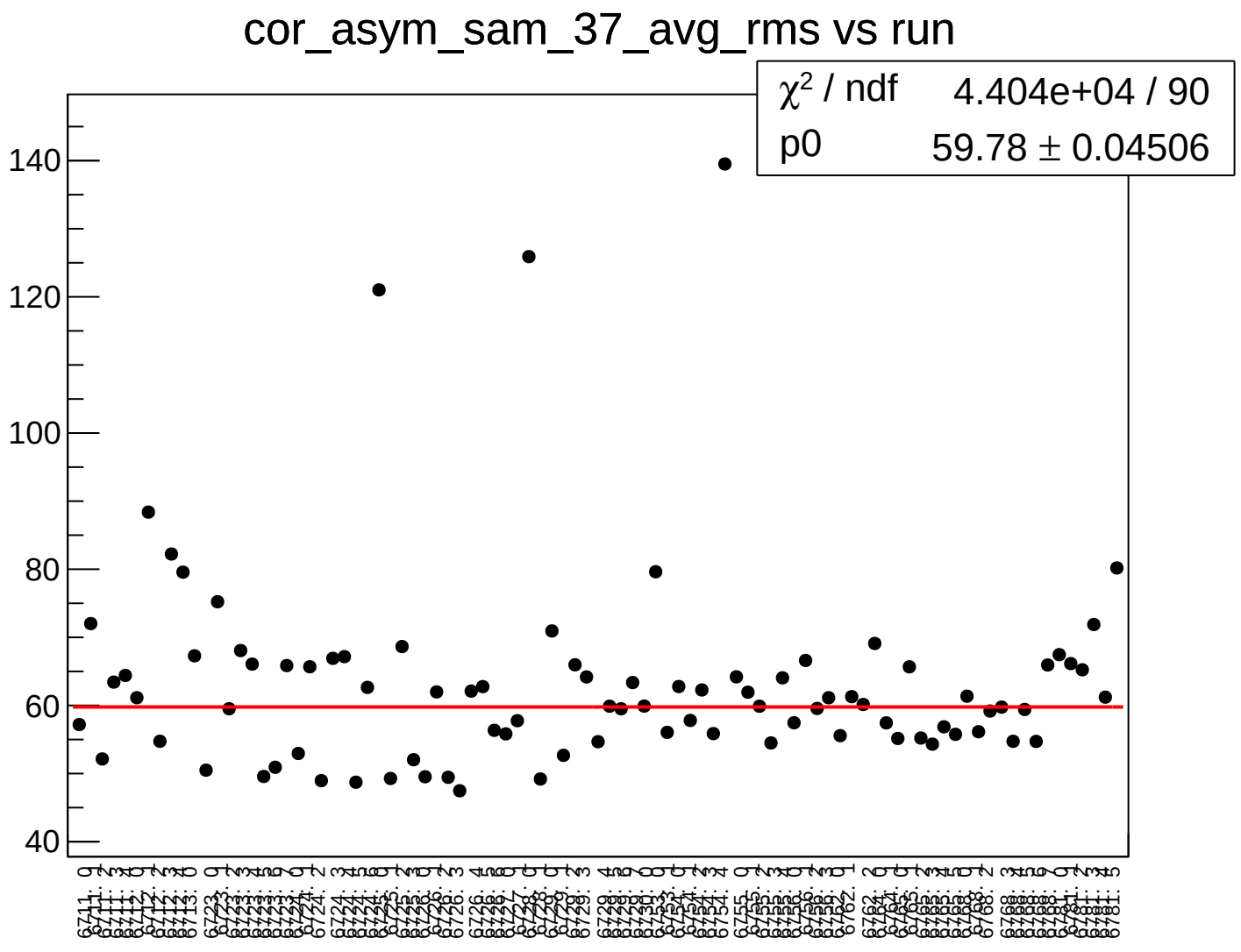

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 108 / 90
p0 160.5 ± 508.2
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 47.15
Std Dev 64
3
2
1
0
−1
−2

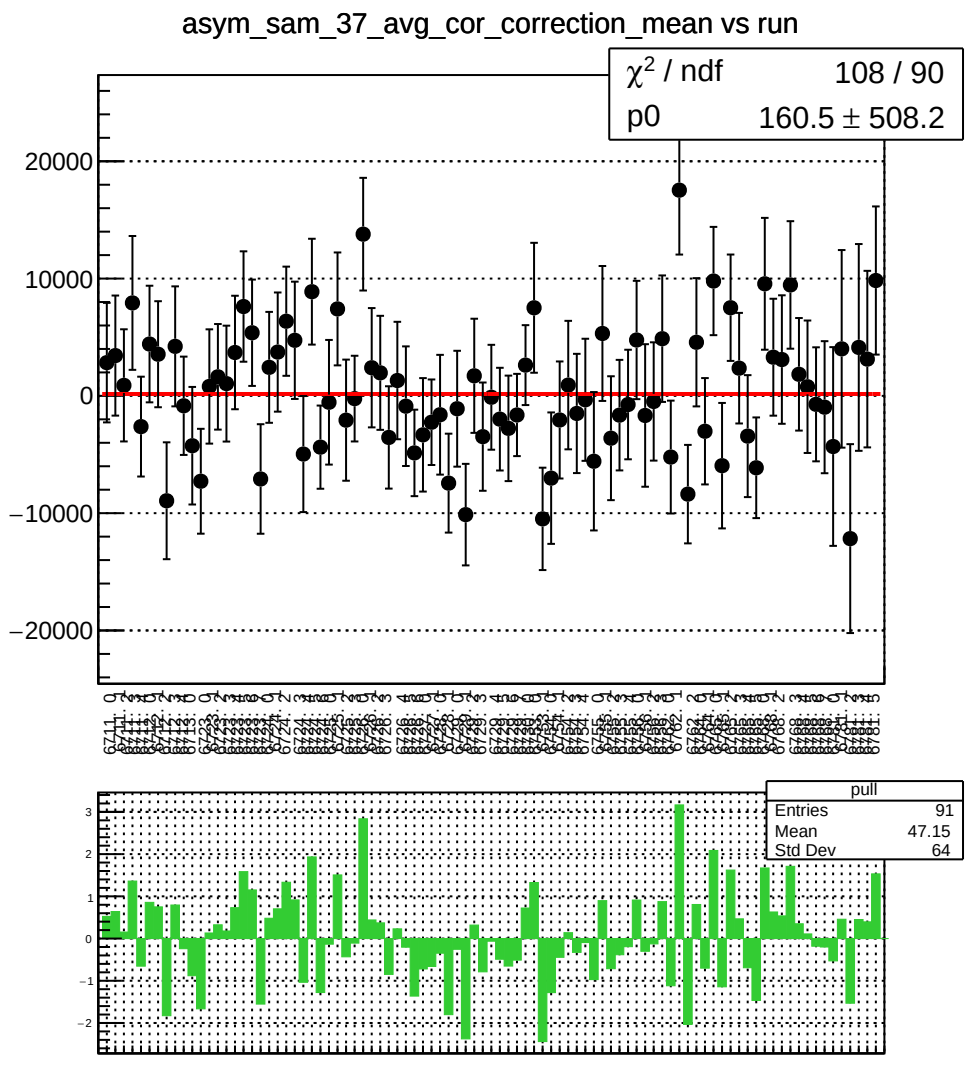

pull1D
Entries 91
Mean 0.03698
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

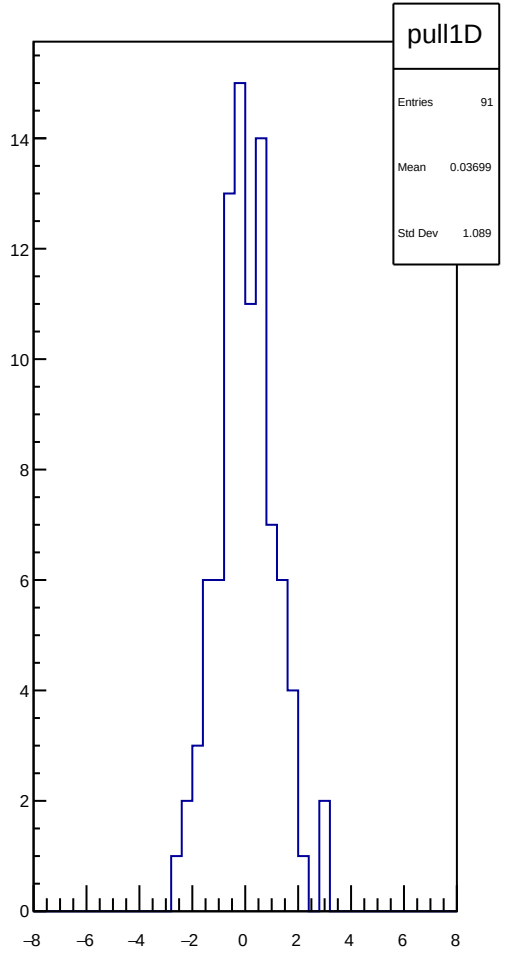

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 3.258e+04 / 90
p0 478.4 ± 0.3594
800
700
600
500
400

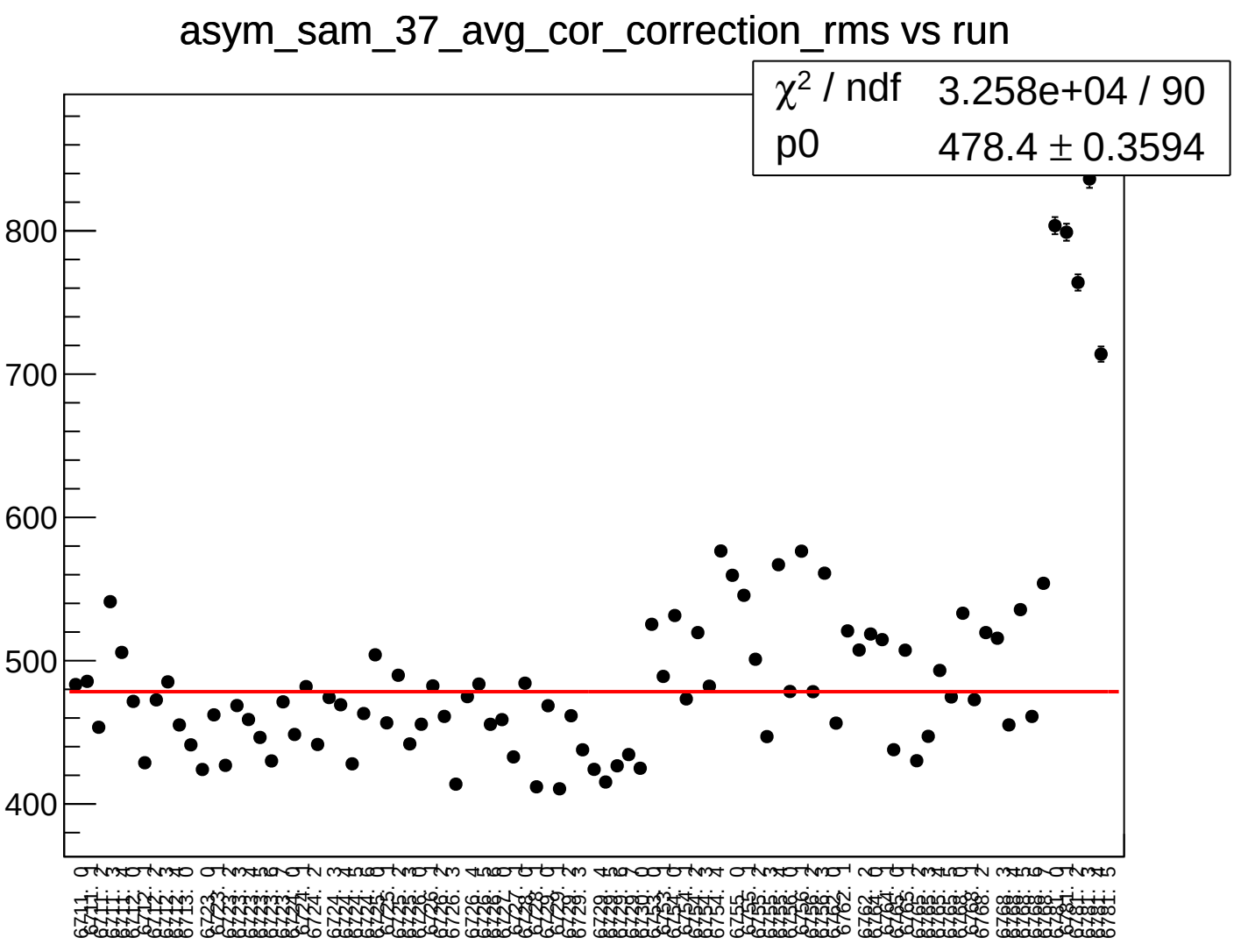

cor_asym_sam_37_avg_mean vs run
χ² / ndf 107 / 90
p0 −156.1± 63.72
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −46.59
Std Dev 0
2
1
0
−1
−2
−3

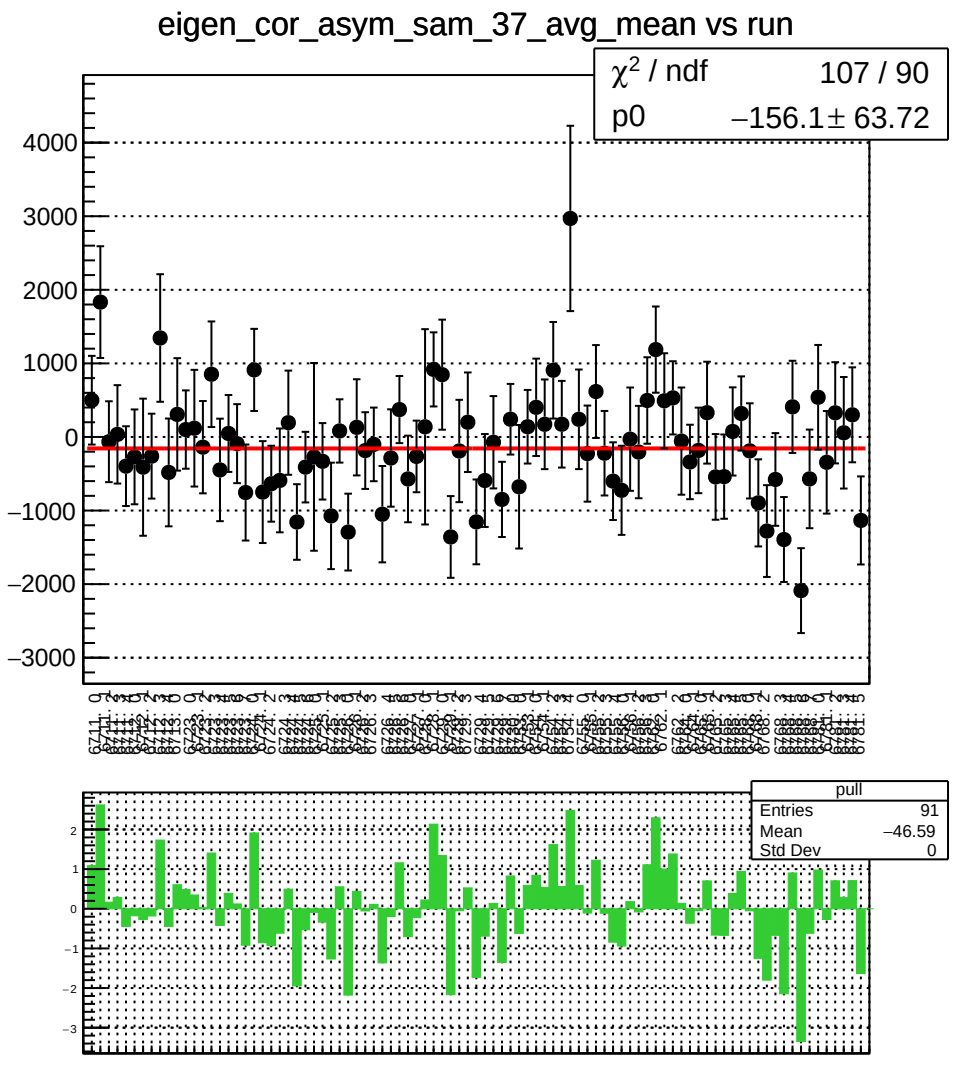

pull1D
Entries 91
Mean 0.03198
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

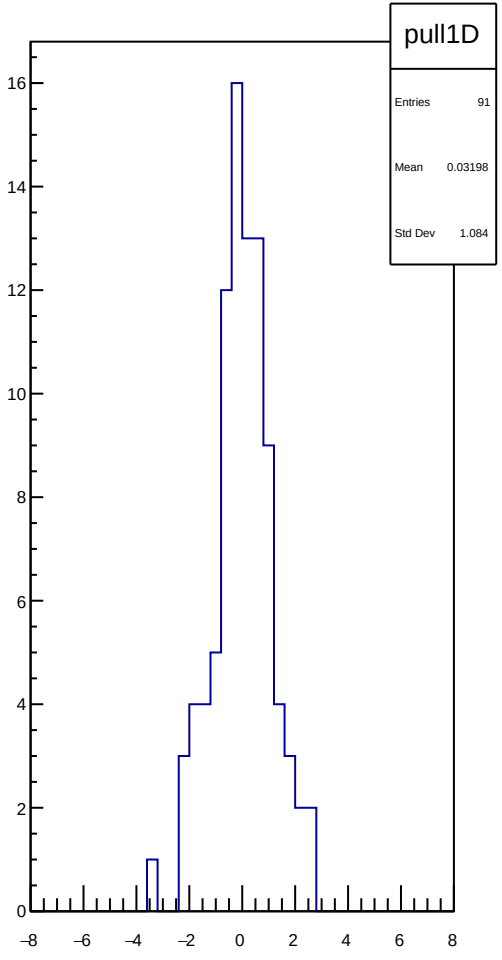

cor_asym_sam_37_avg_rms vs run
χ² / ndf 4.404e+04 / 90
p0 59.78 ± 0.04506
140
120
100
80
60
40

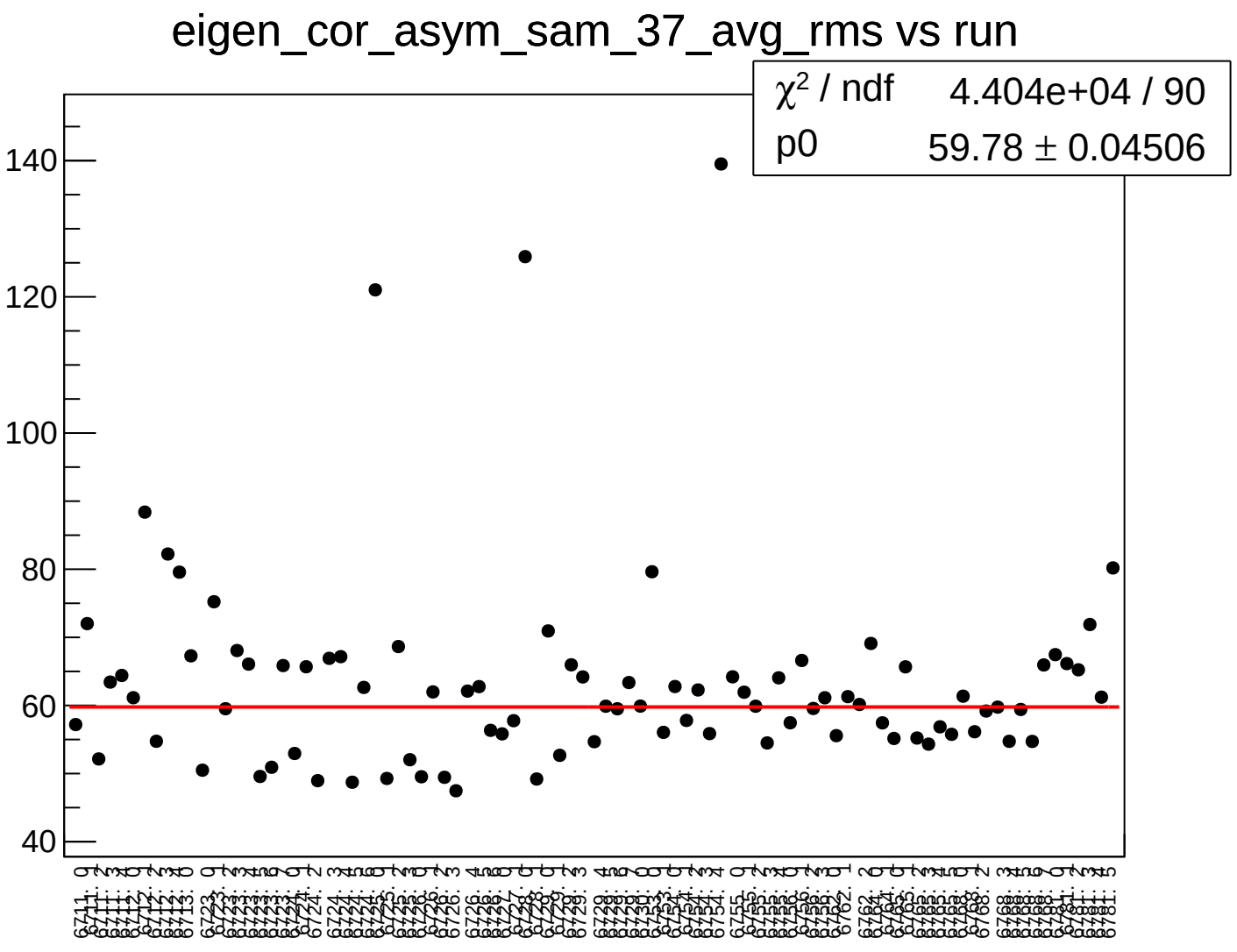

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 108 / 90
p0 160.5 ± 508.2
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 47.15
Std Dev 64
3
2
1
0
−1
−2

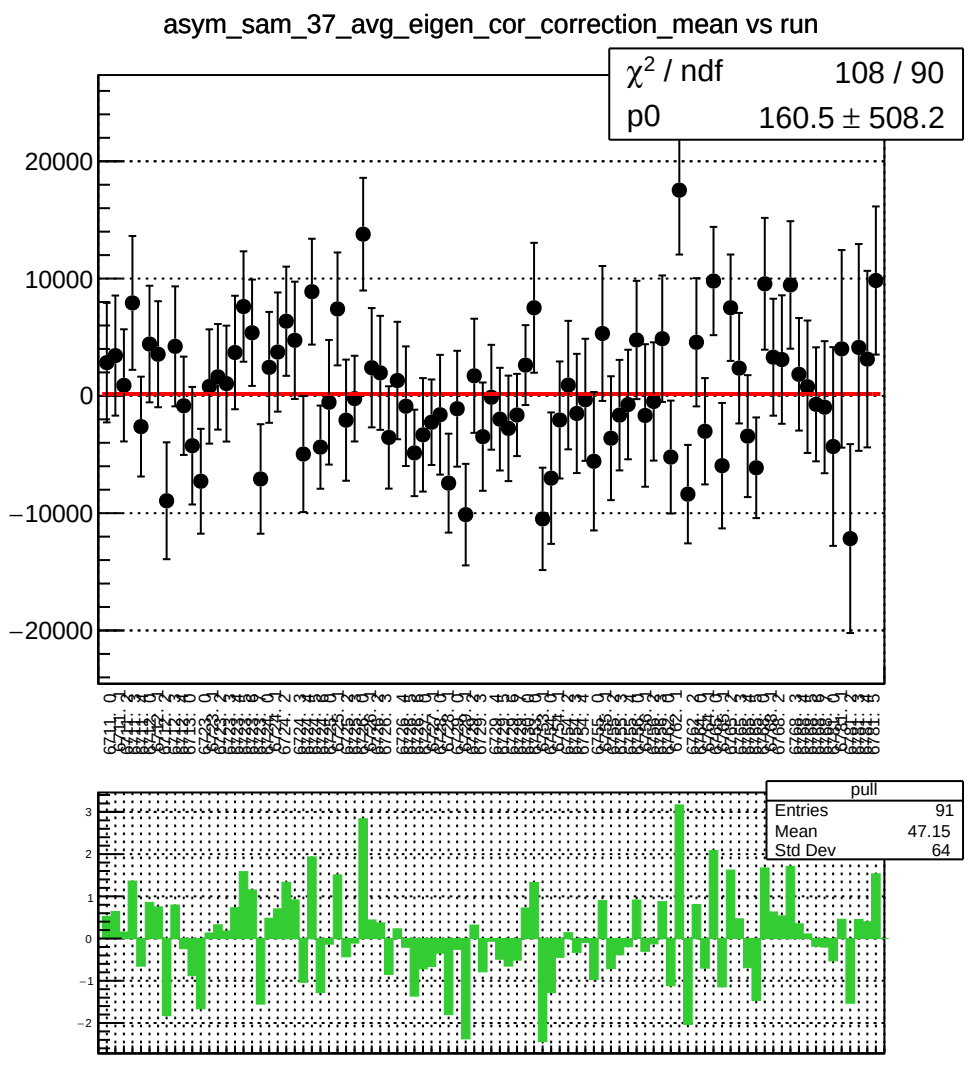

pull1D
Entries 91
Mean 0.03699
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

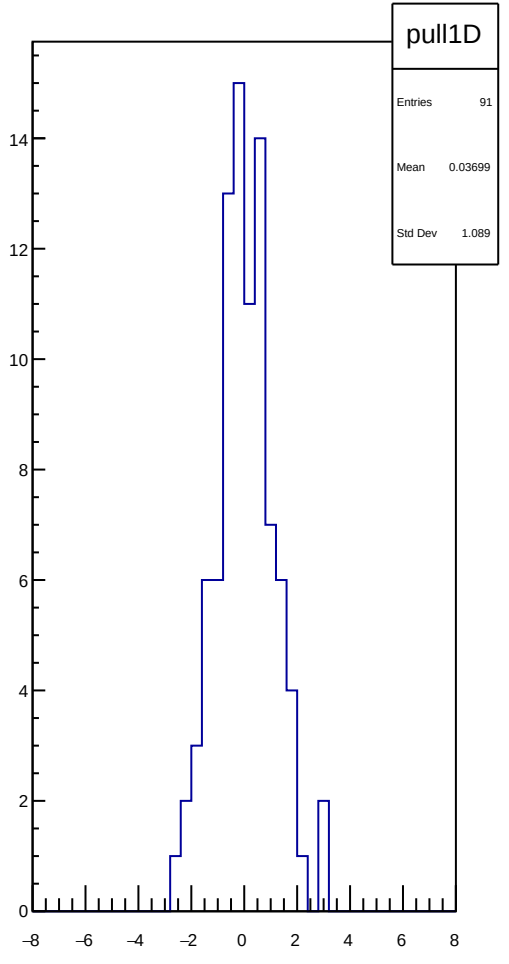

asym_sam_37_avg_cor_correction_rms vs run
χ^2 / ndf 3.258e+04 / 90
p0 478.4 ± 0.3594
800
700
600
500
400


eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 107 / 90
p0 −156.1± 63.72
pull
Entries 91
Mean −46.59
Std Dev 0


pull1D
Entries 91
Mean 0.03198
Std Dev 1.084


eigen_cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 4.404e+04 / 90
p0 59.78 ± 0.04506
140
120
100
80
60
40


asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 108 / 90
p0 160.5 ± 508.2
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 47.15
Std Dev 64
3
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.03699
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
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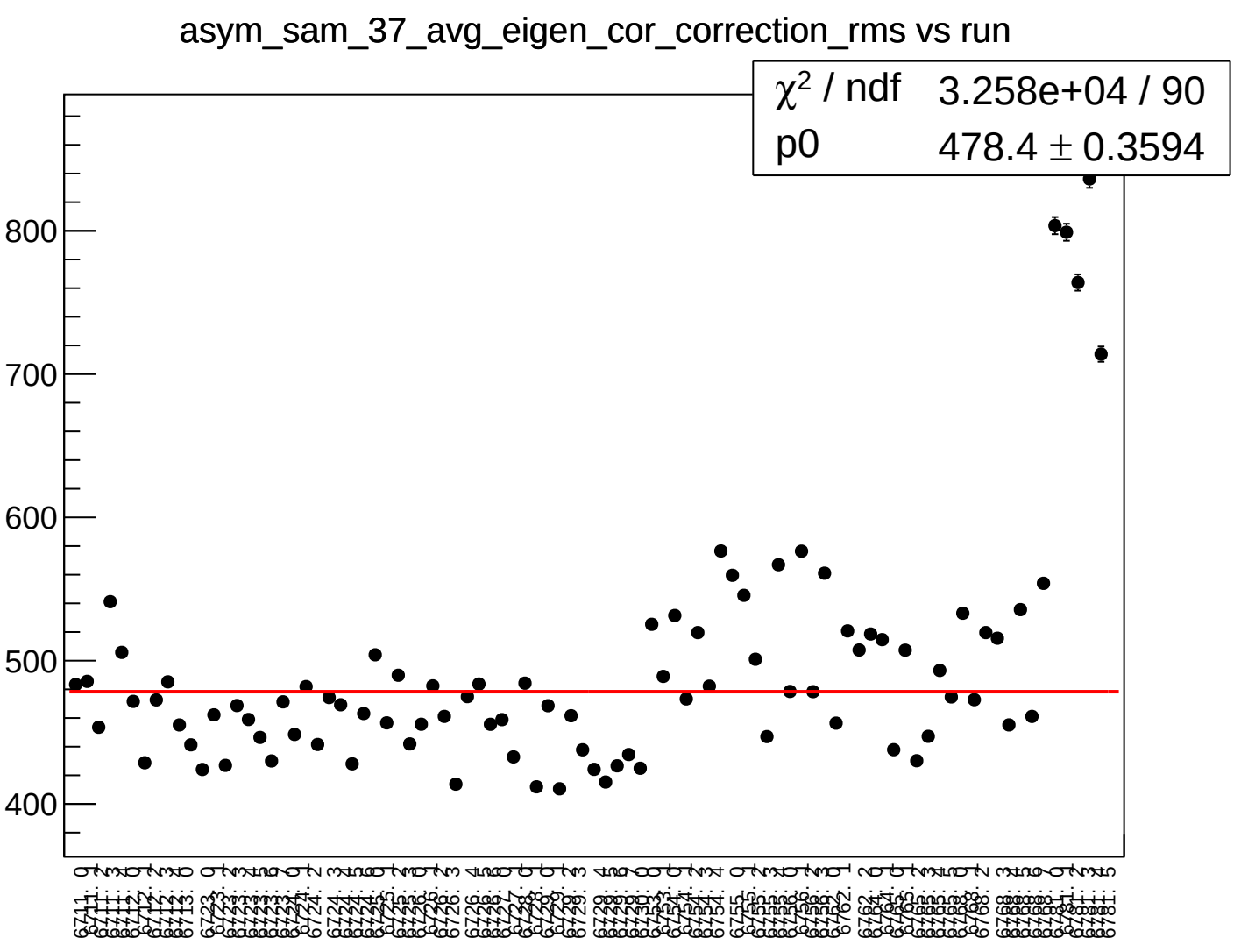
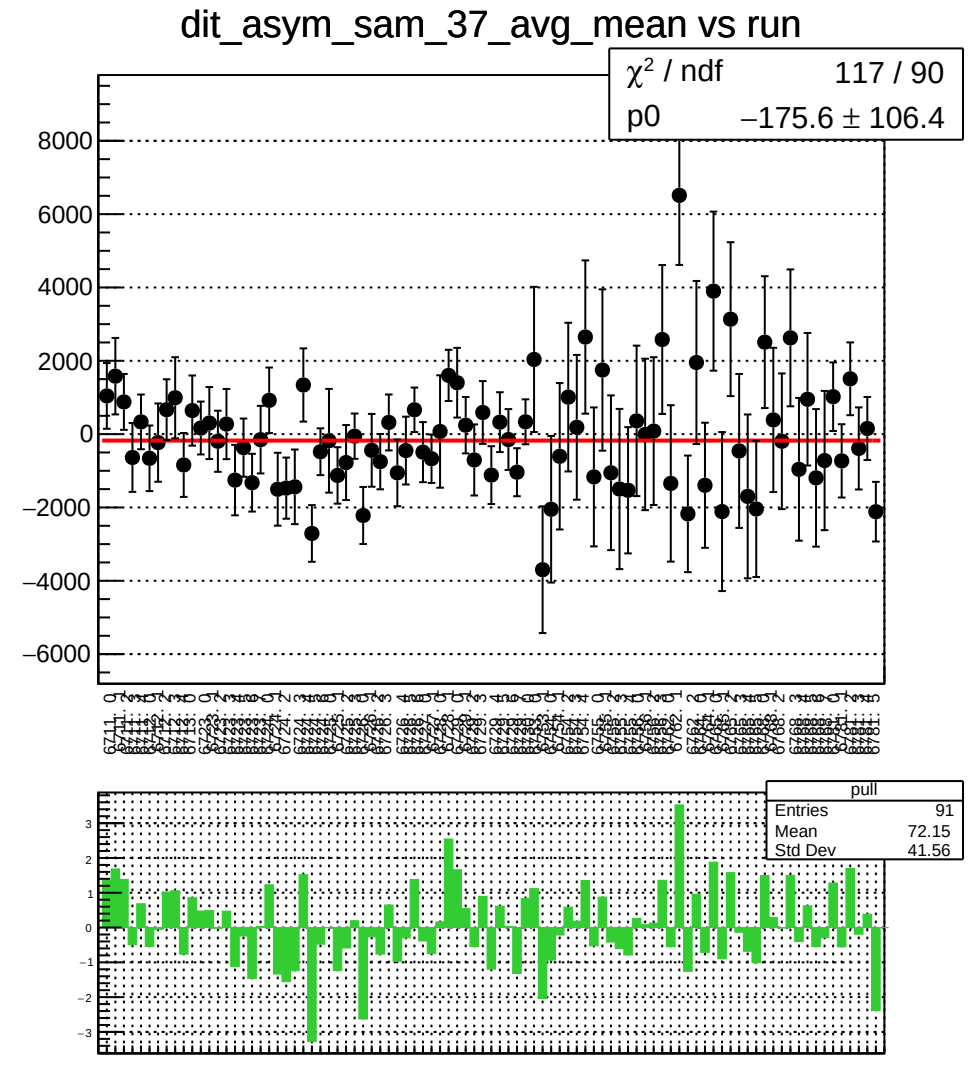
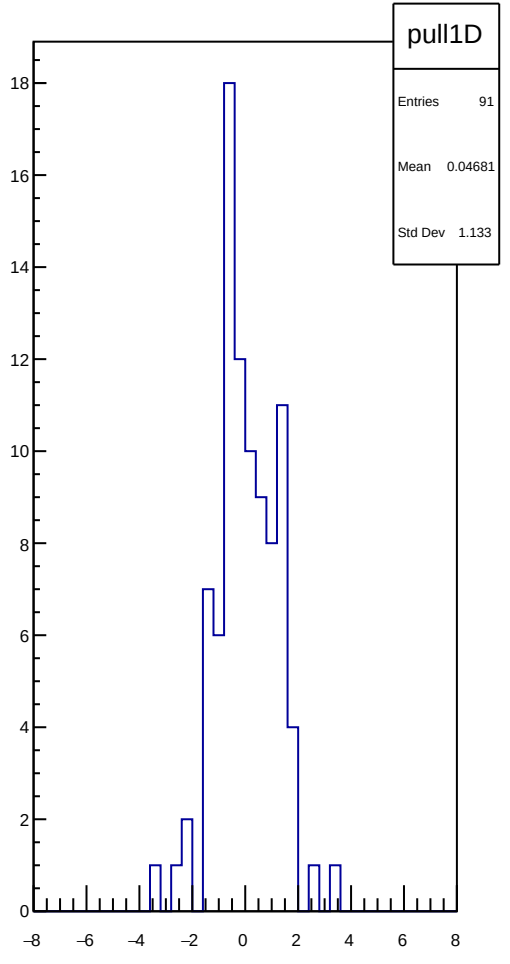
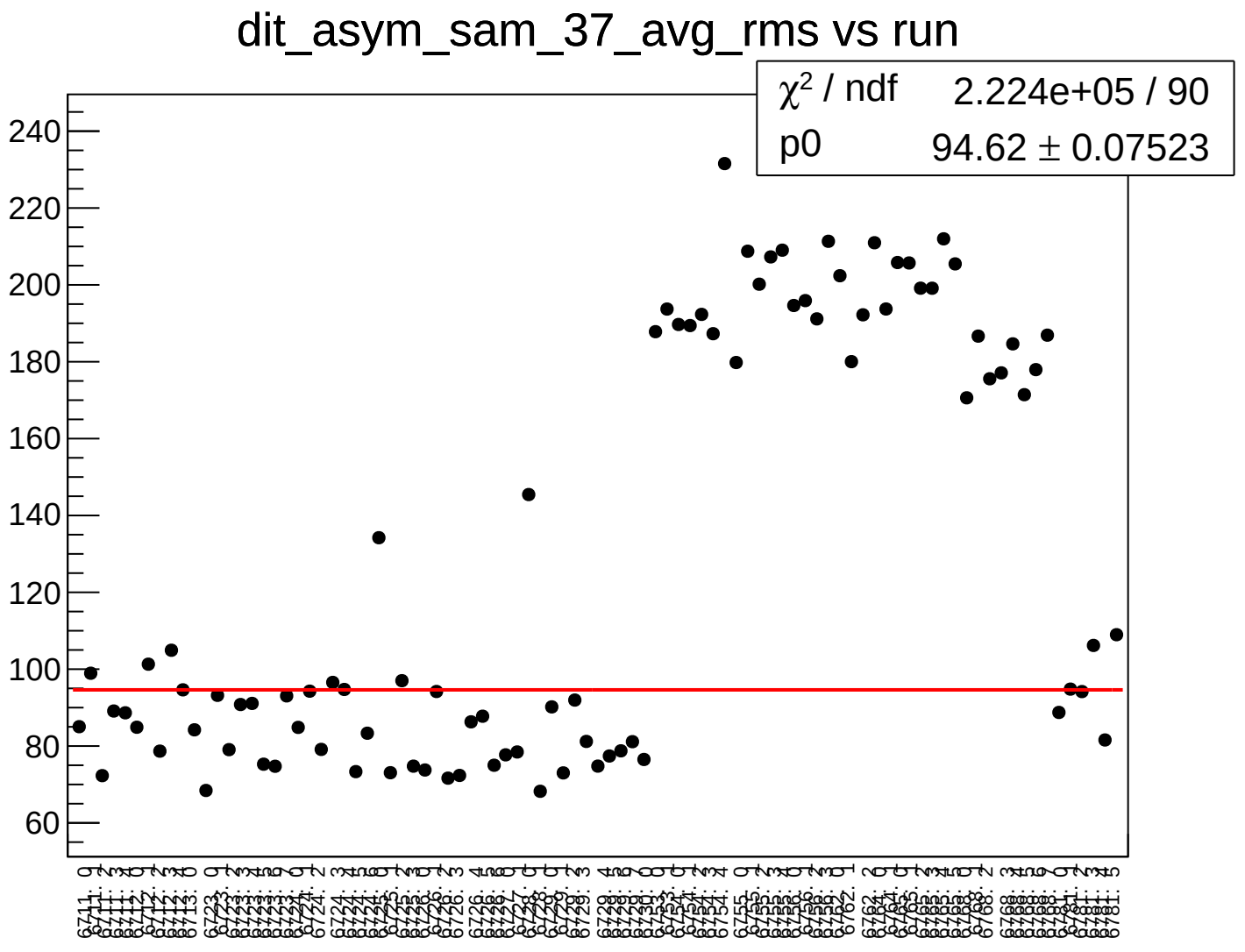
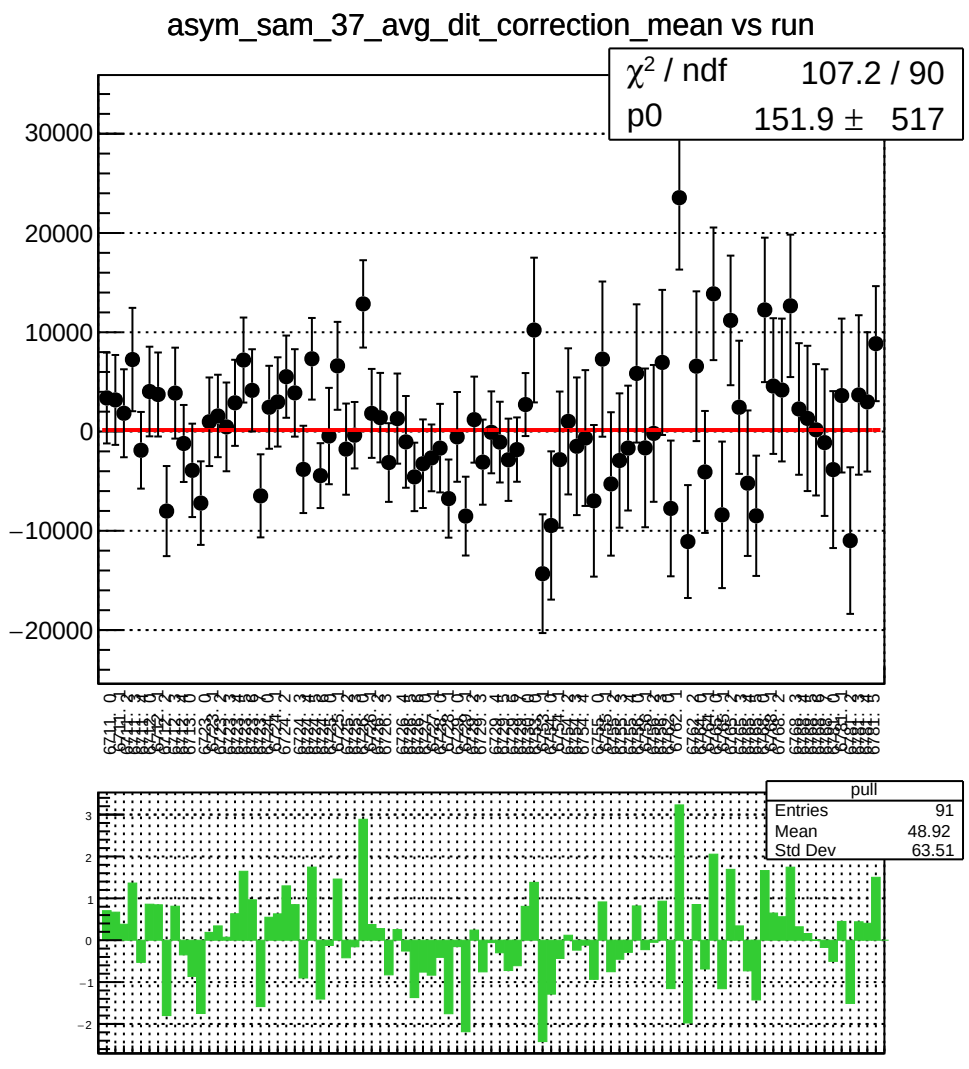
2
4
6
8

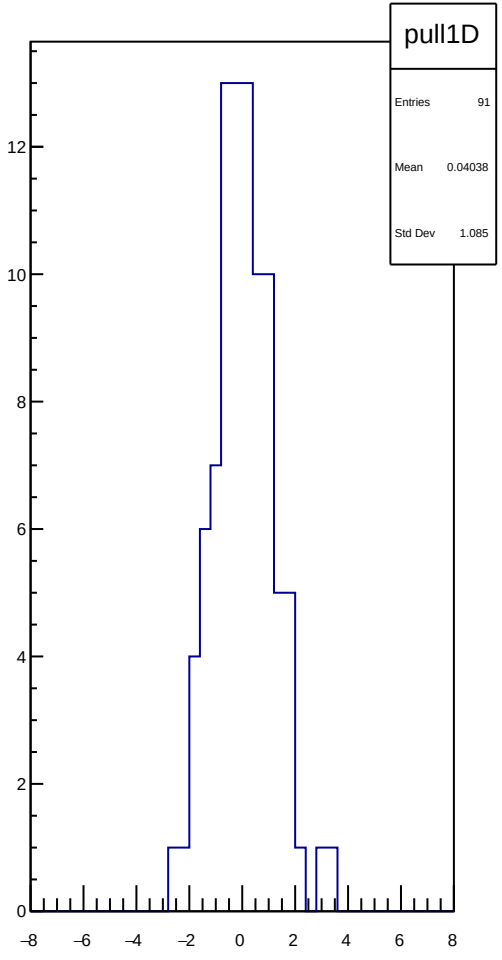

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.258e+04 / 90
p0 478.4 ± 0.3594
800
700
600
500
400

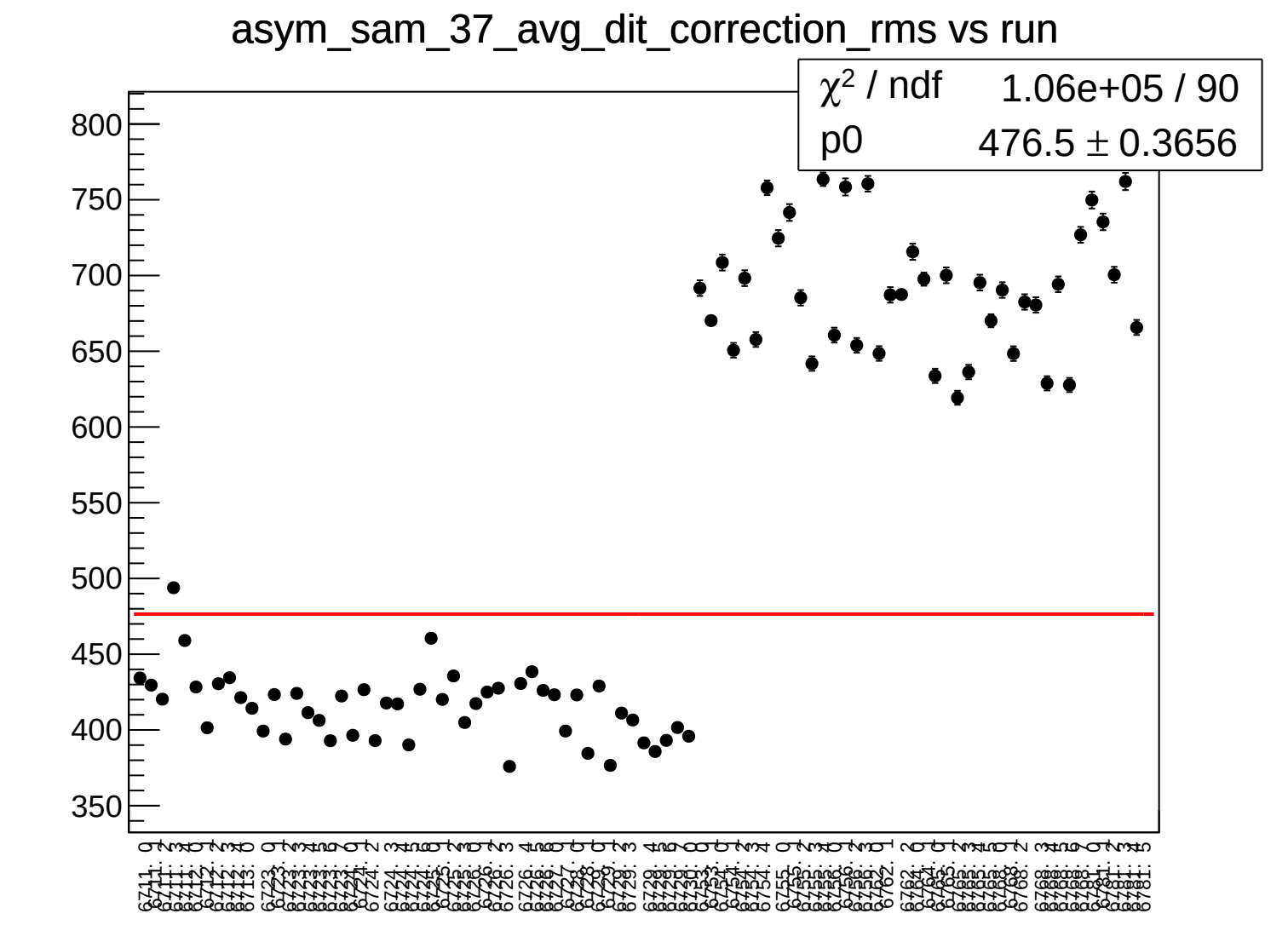

dit_asym_sam_37_avg_mean vs run
χ² / ndf 117 / 90
p0 −175.6 ± 106.4
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 72.15
Std Dev 41.56
3
2
1
0
−1
−2
−3

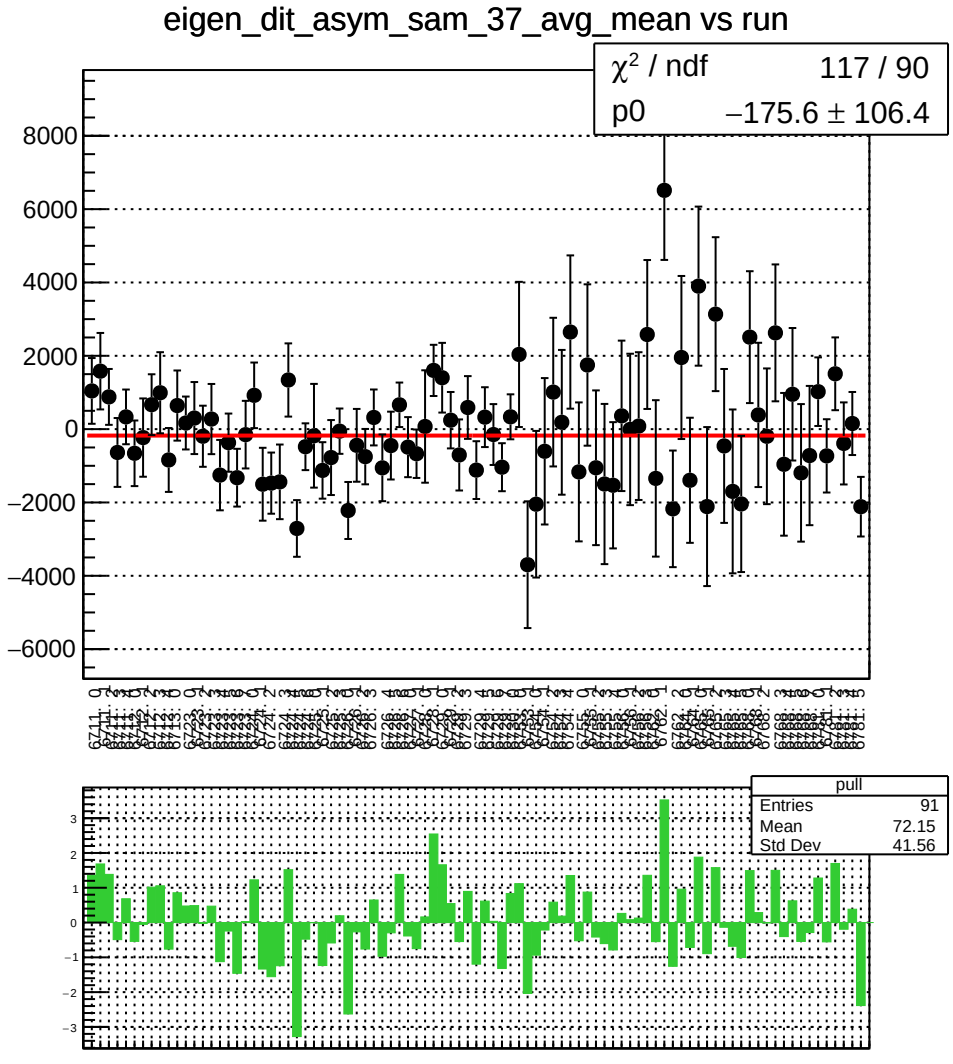

pull1D
Entries 91
Mean 0.04681
Std Dev 1.133
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

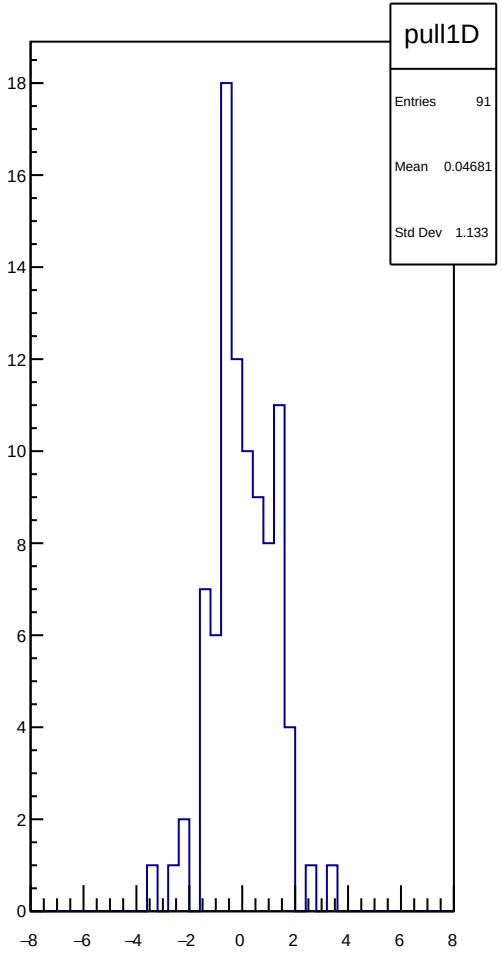

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.224e+05 / 90
p0 94.62 ± 0.07523
240
220
200
180
160
140
120
100
80
60

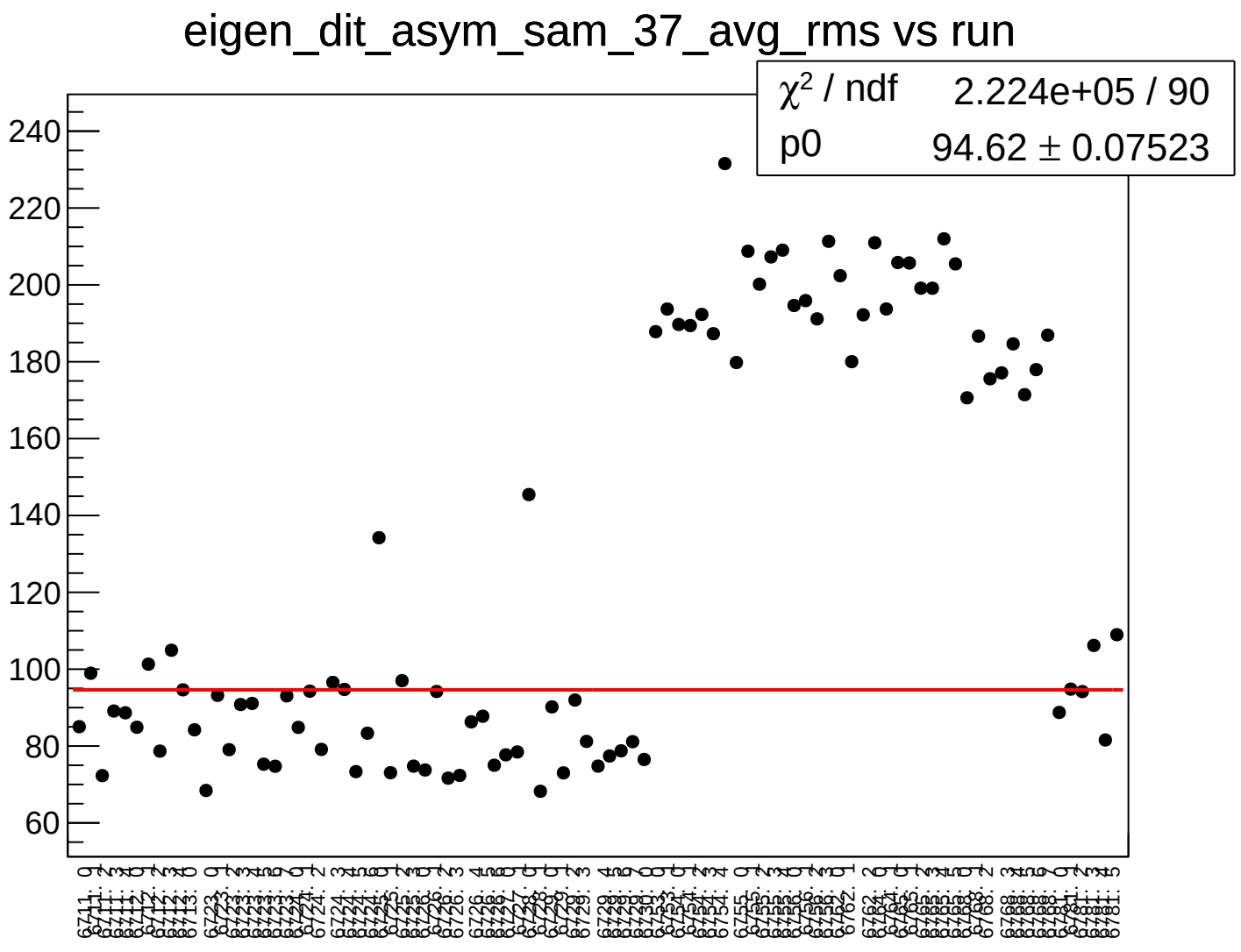

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 107.2 / 90
p0 151.9 ± 517
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 48.92
Std Dev 63.51
3
2
1
0
−1
−2

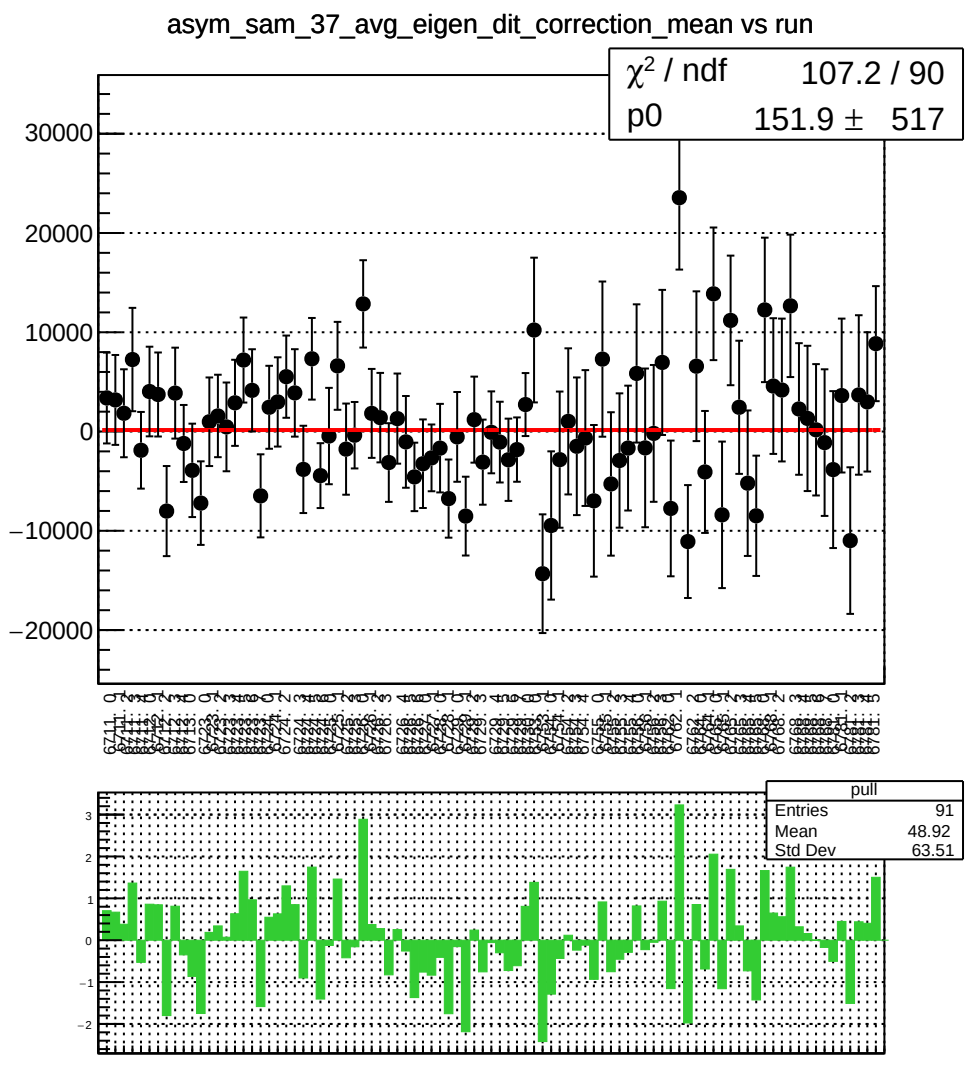

pull1D
Entries 91
Mean 0.04038
Std Dev 1.085
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

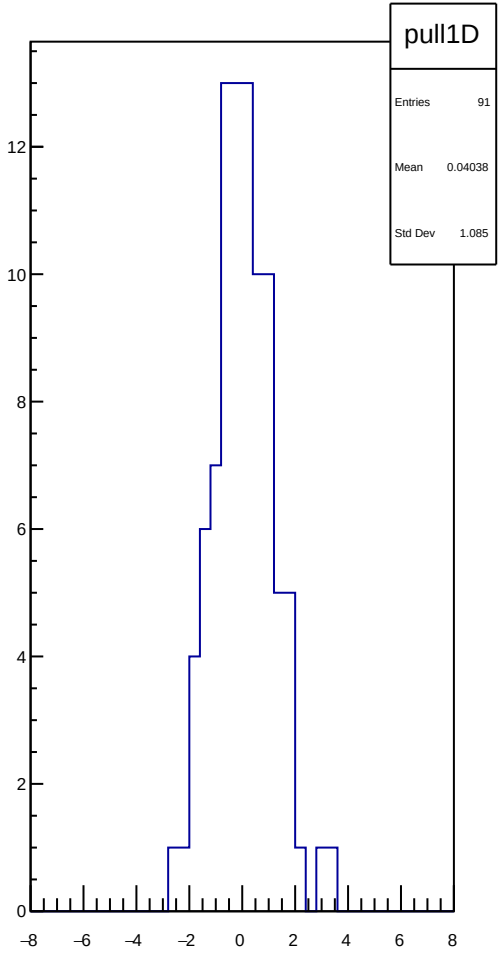

asym_sam_37_avg_dit_correction_rms vs run
χ^2 / ndf 1.06e+05 / 90
p0 476.5 ± 0.3656
800
750
700
650
600
550
500
450
400
350

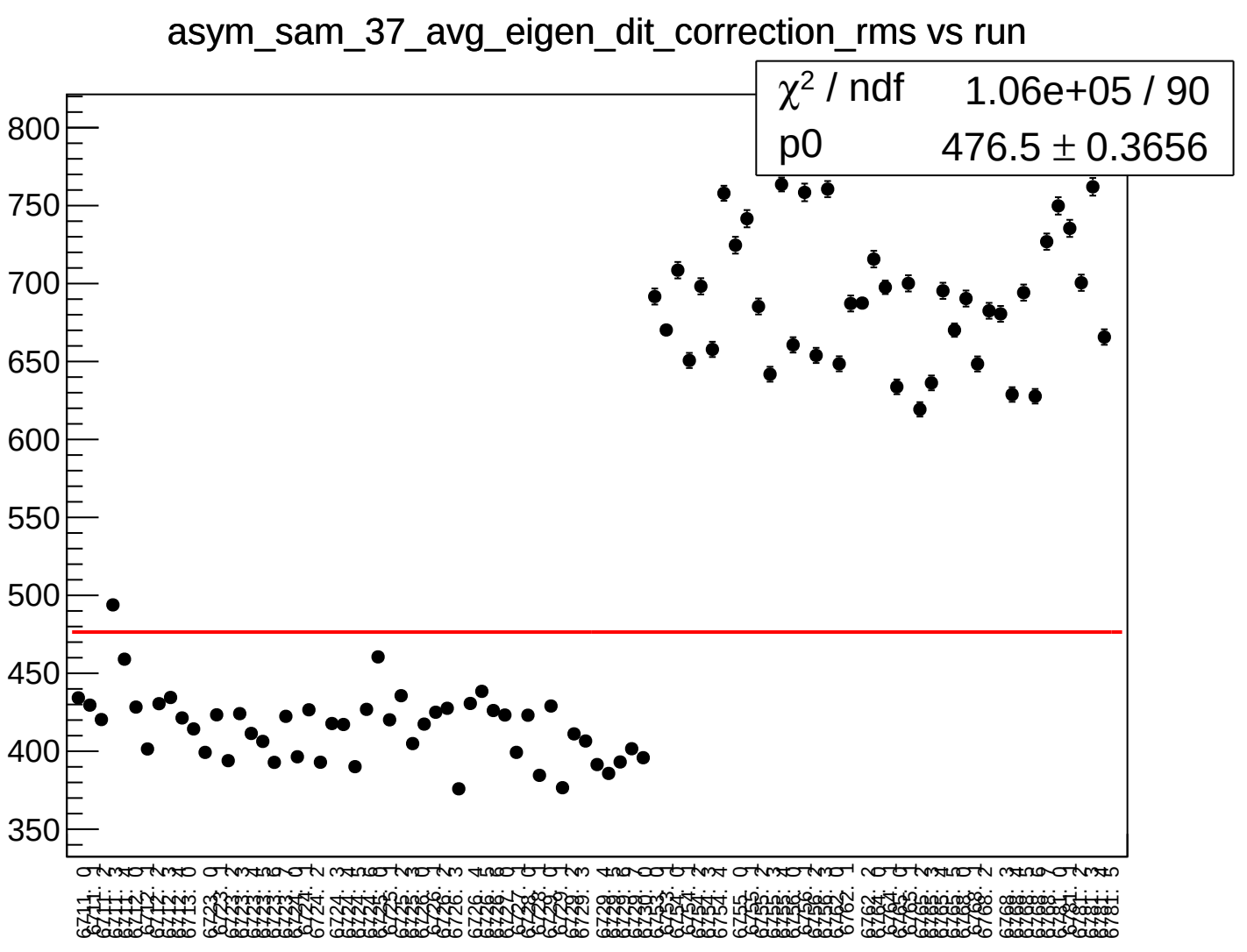

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 117 / 90
p0 −175.6 ± 106.4
pull
Entries 91
Mean 72.15
Std Dev 41.56

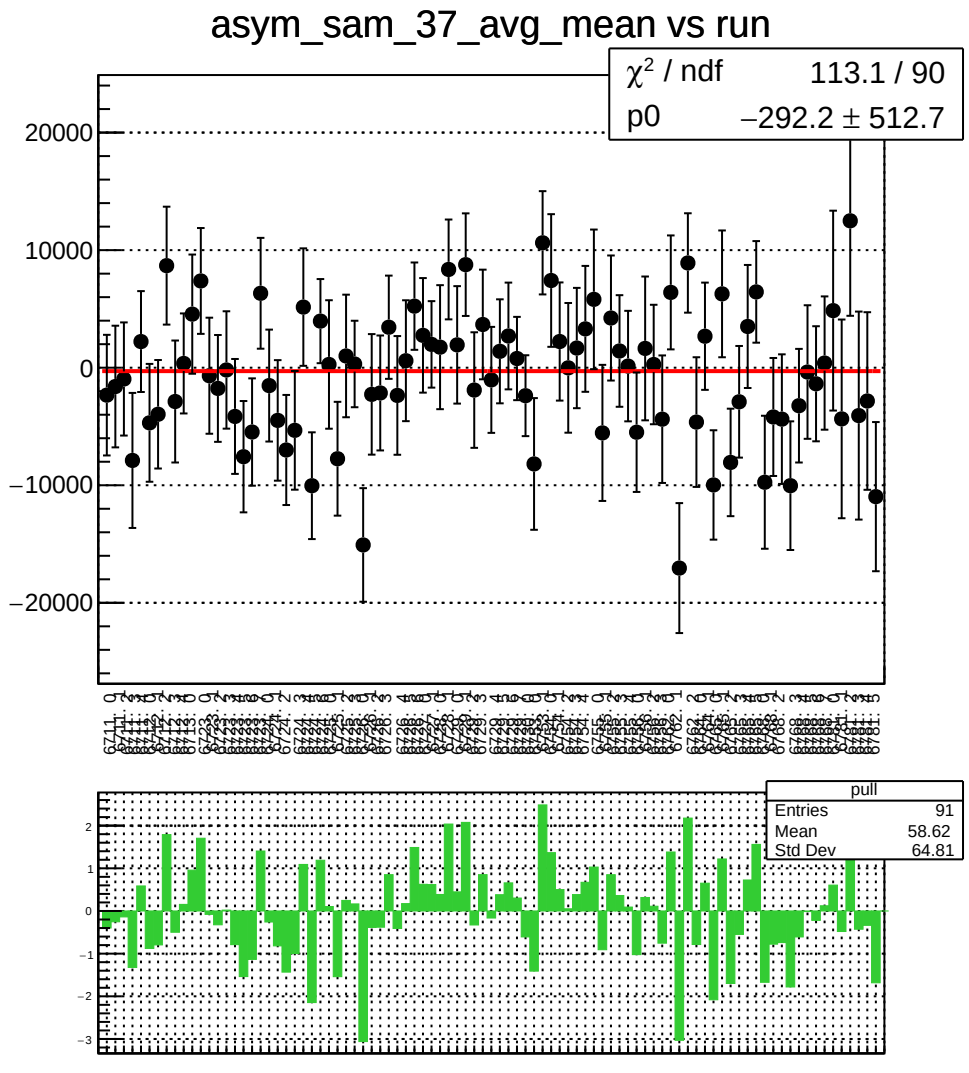

pull1D
Entries 91
Mean 0.04681
Std Dev 1.133

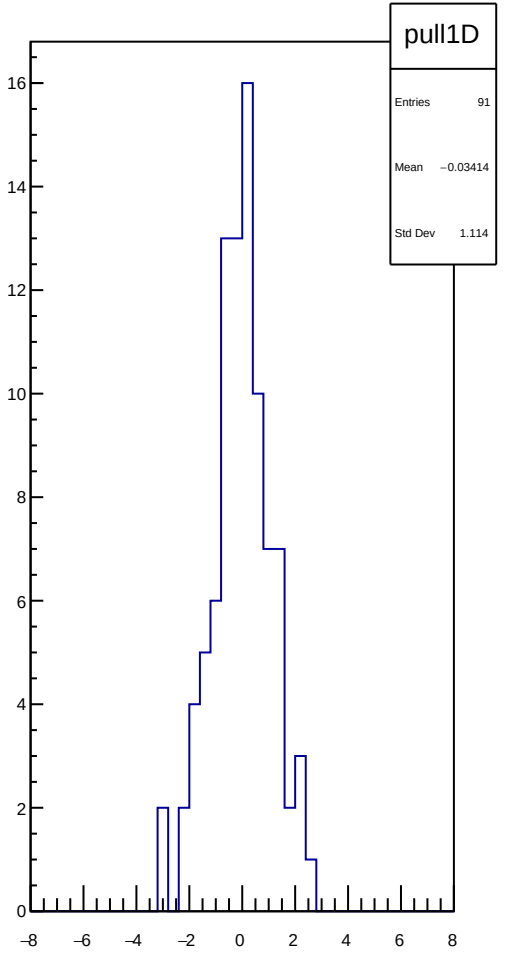

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 2.224e+05 / 90
p0 94.62 ± 0.07523
240
220
200
180
160
140
120
100
80
60

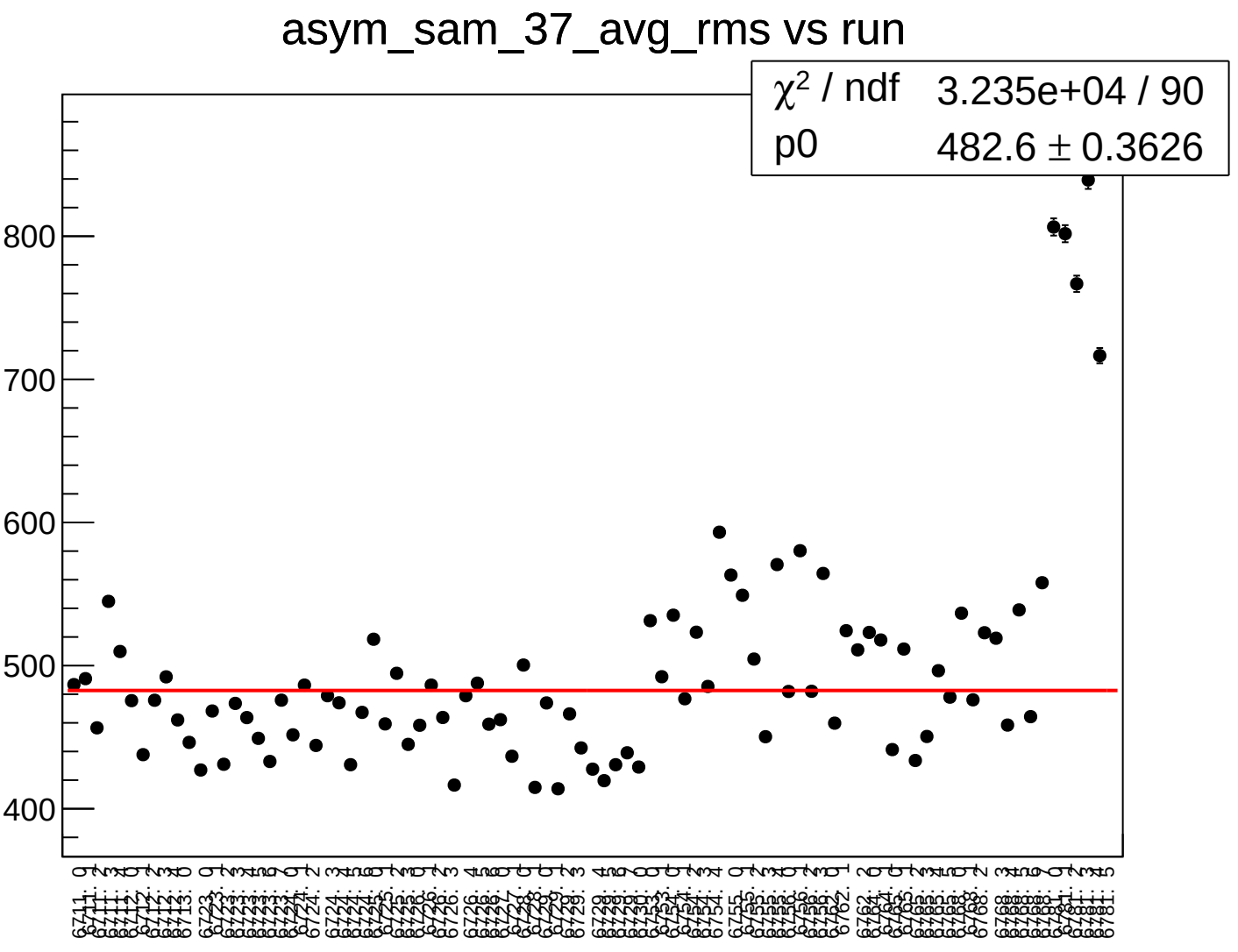

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 107.2 / 90
p0 151.9 ± 517
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 48.92
Std Dev 63.51
3
2
1
0
−1
−2

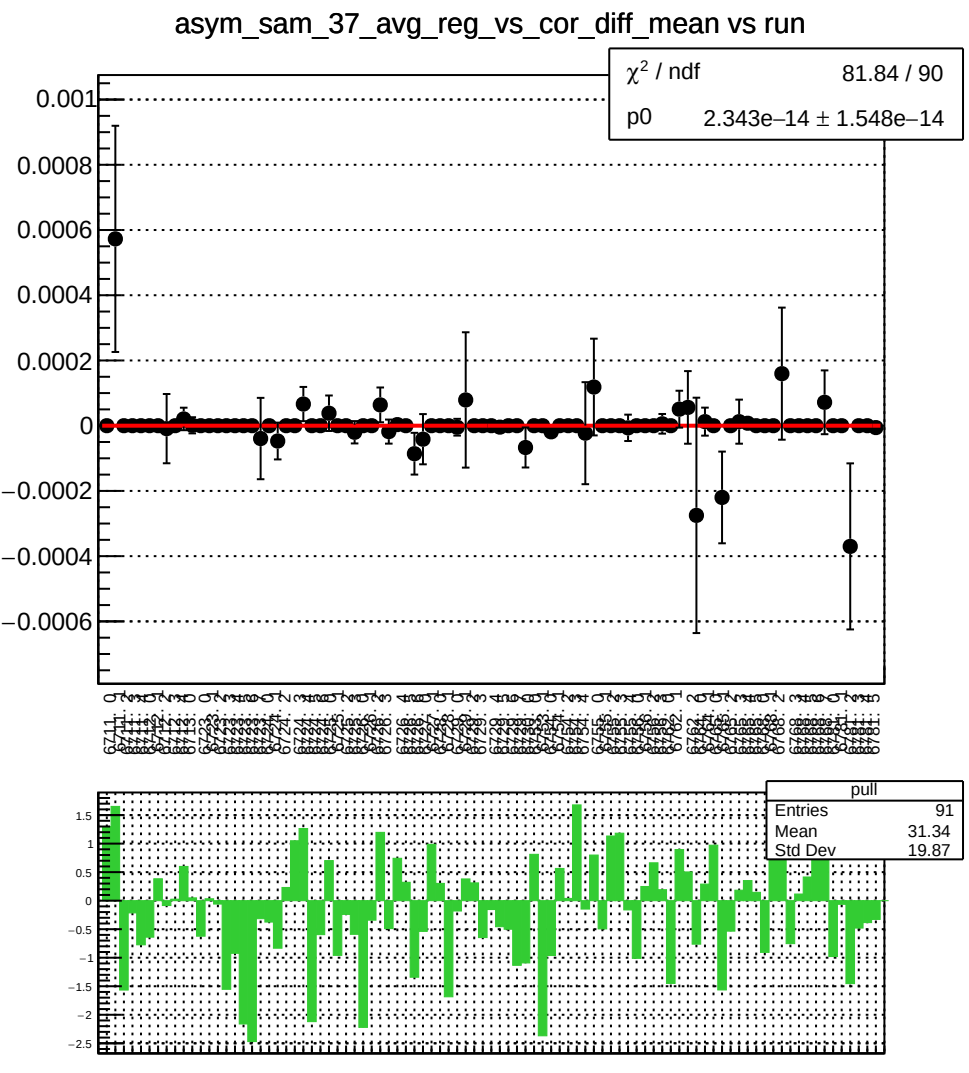

pull1D
Entries 91
Mean 0.04038
Std Dev 1.085
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

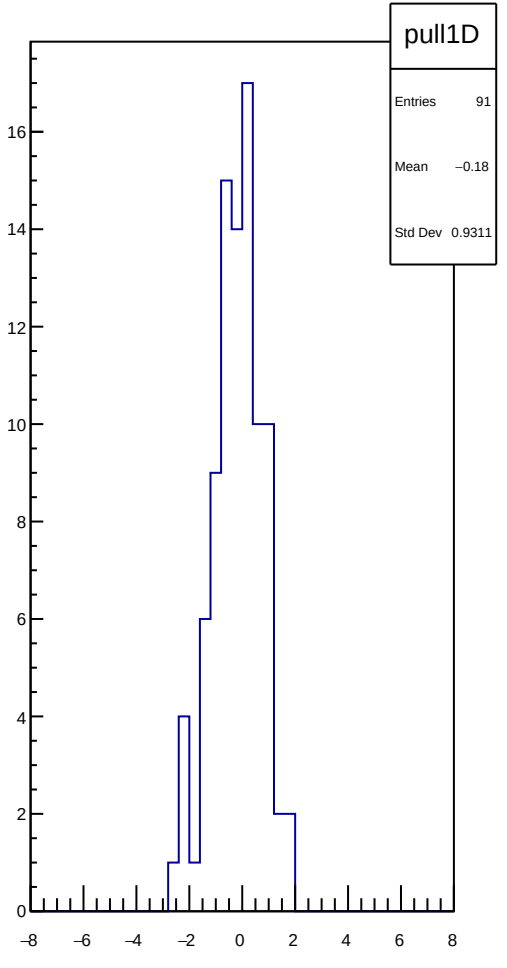

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.06e+05 / 90
p0 476.5 ± 0.3656
800
750
700
650
600
550
500
450
400
350

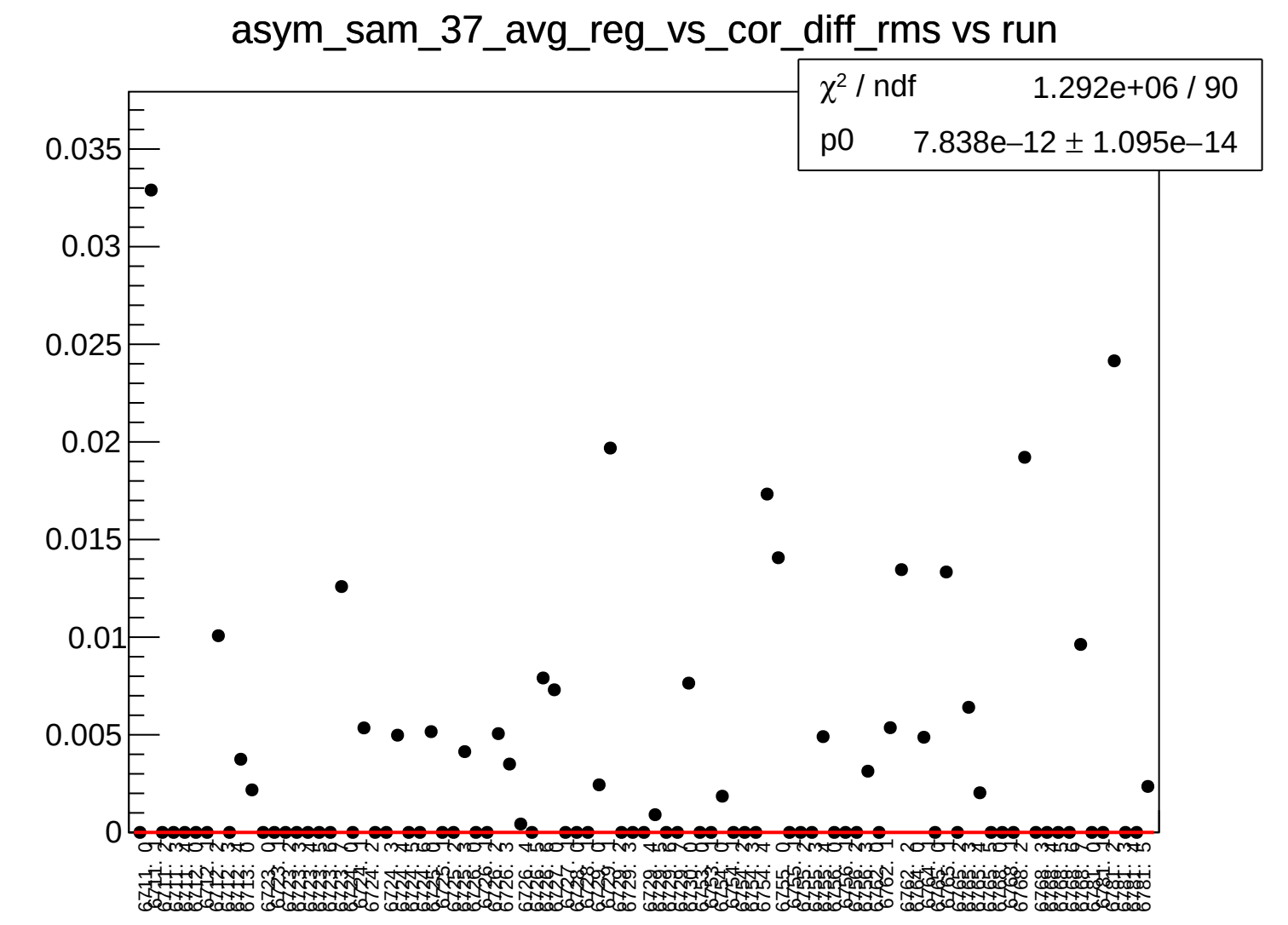

asym_sam_37_avg_mean vs run
χ² / ndf 113.1 / 90
p0 −292.2 ± 512.7
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 58.62
Std Dev 64.81
2
1
0
−1
−2
−3

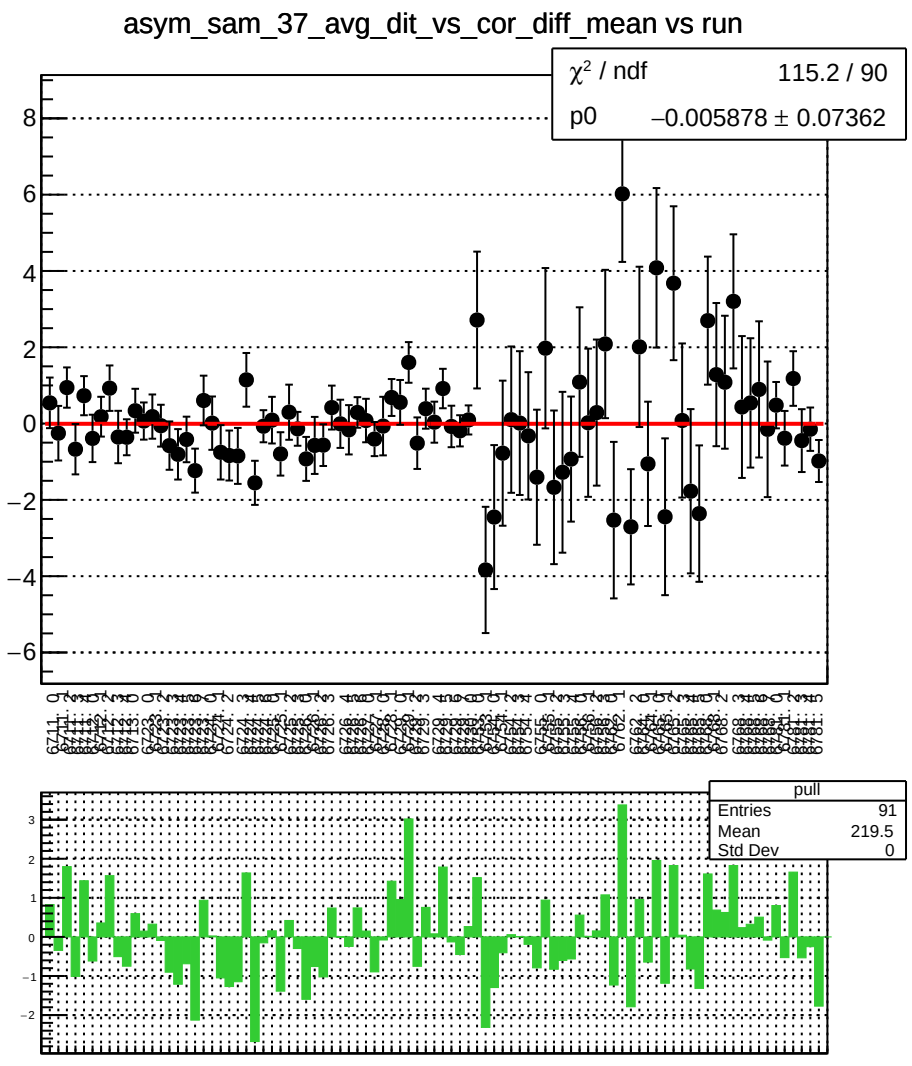

pull1D
Entries 91
Mean −0.03414
Std Dev 1.114
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

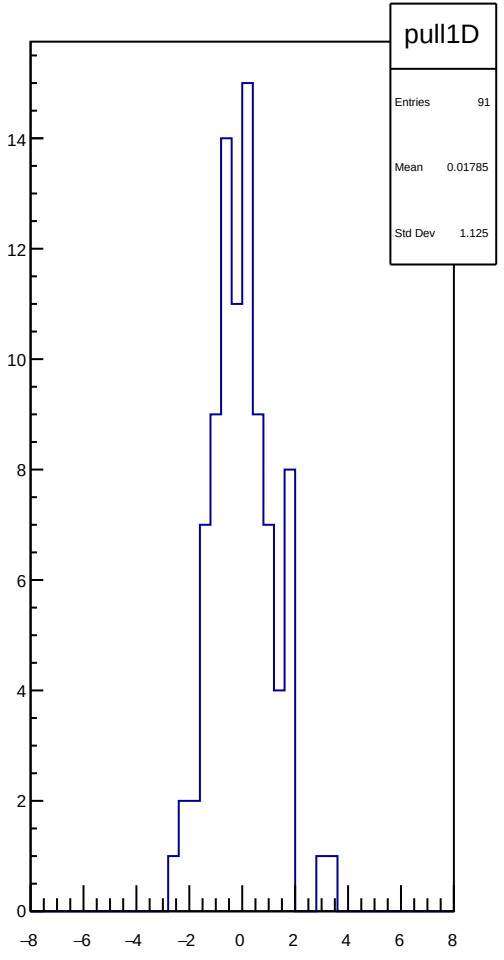

asym_sam_37_avg_rms vs run
χ^2 / ndf 3.235e+04 / 90
p0 482.6 ± 0.3626
800
700
600
500
400

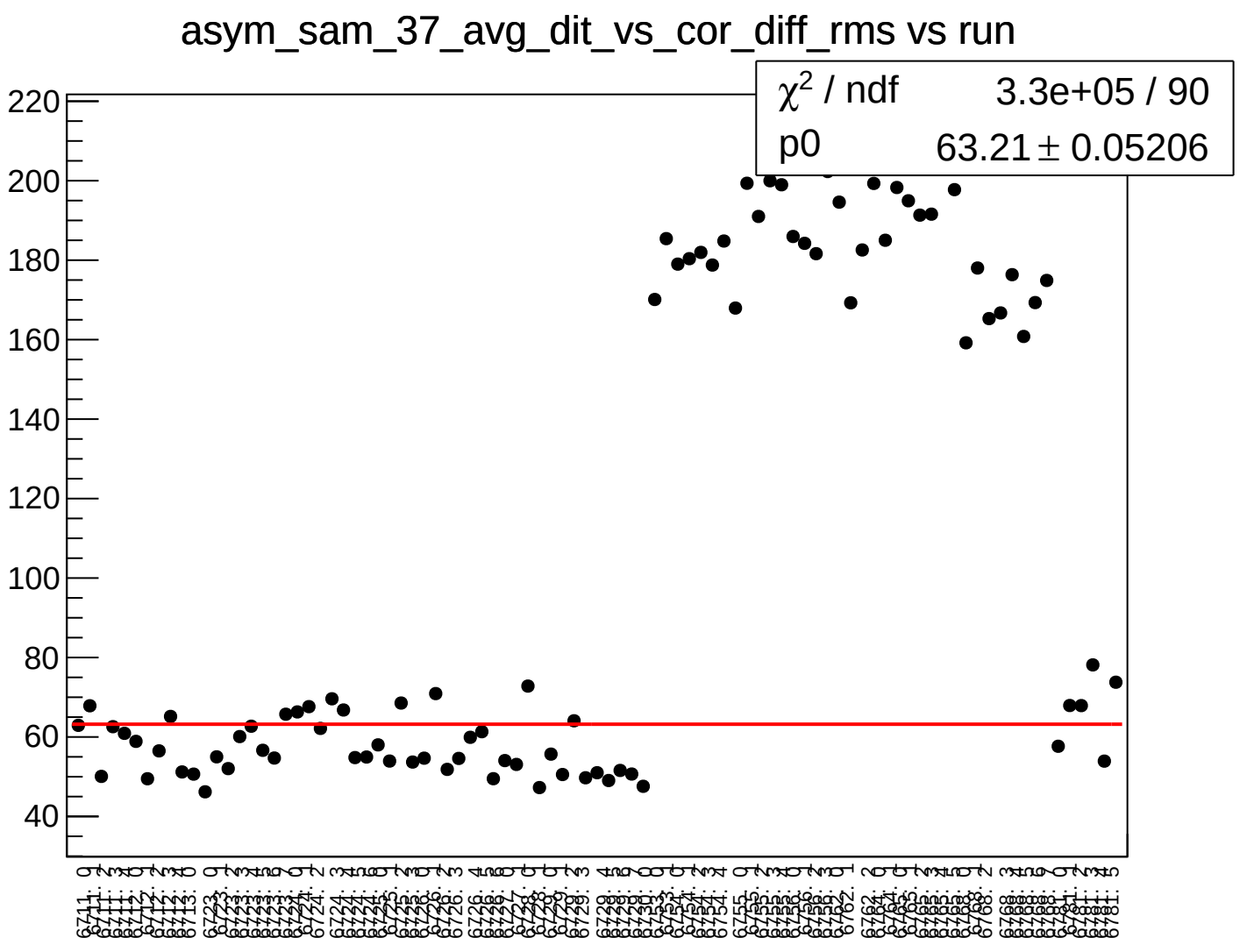

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.84 / 90
p0 2.343e−14 ± 1.548e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 91
Mean 31.34
Std Dev 19.87
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 91
Mean −0.18
Std Dev 0.9311
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

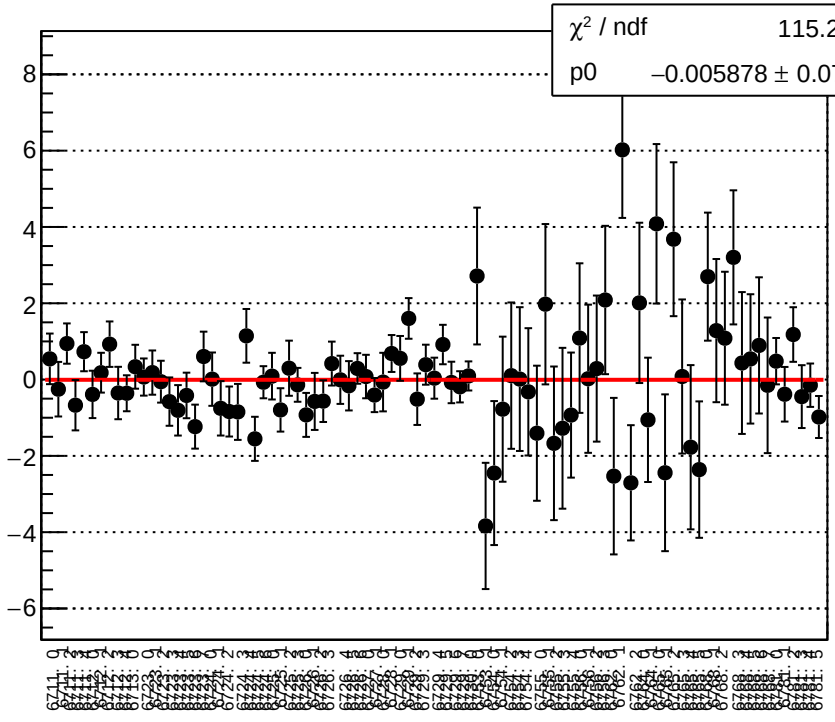

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.292e+06 / 90
p0 7.838e−12 ± 1.095e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

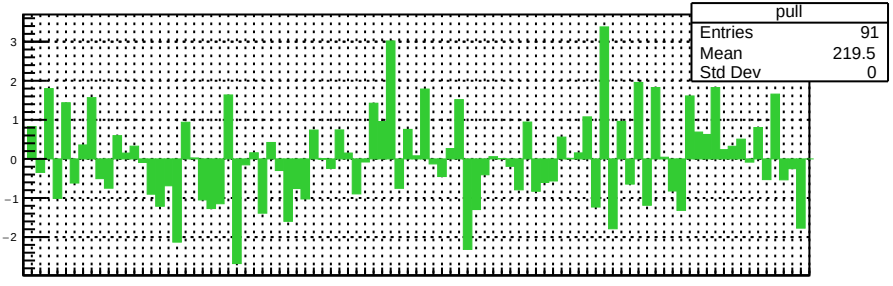

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 115.2 / 90
p0 −0.005878 ± 0.07362
pull
Entries 91
Mean 219.5
Std Dev 0

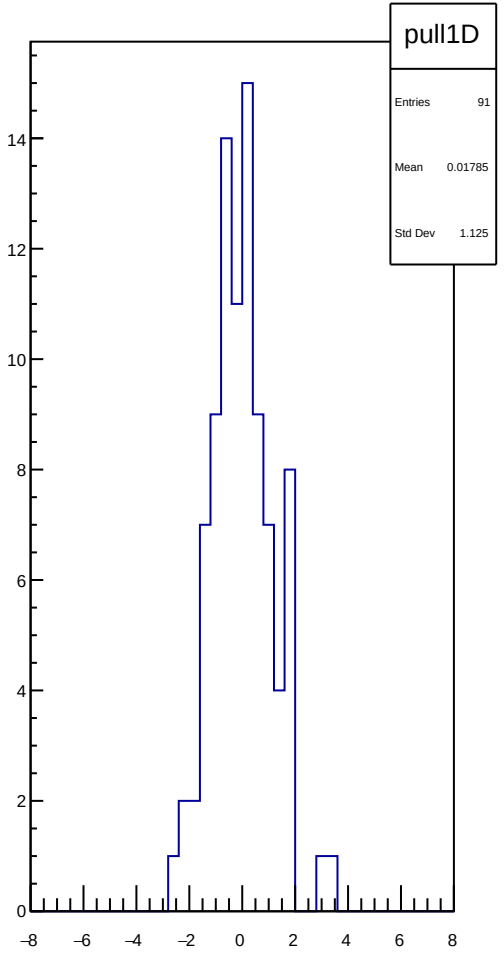

pull1D
Entries 91
Mean 0.01785
Std Dev 1.125

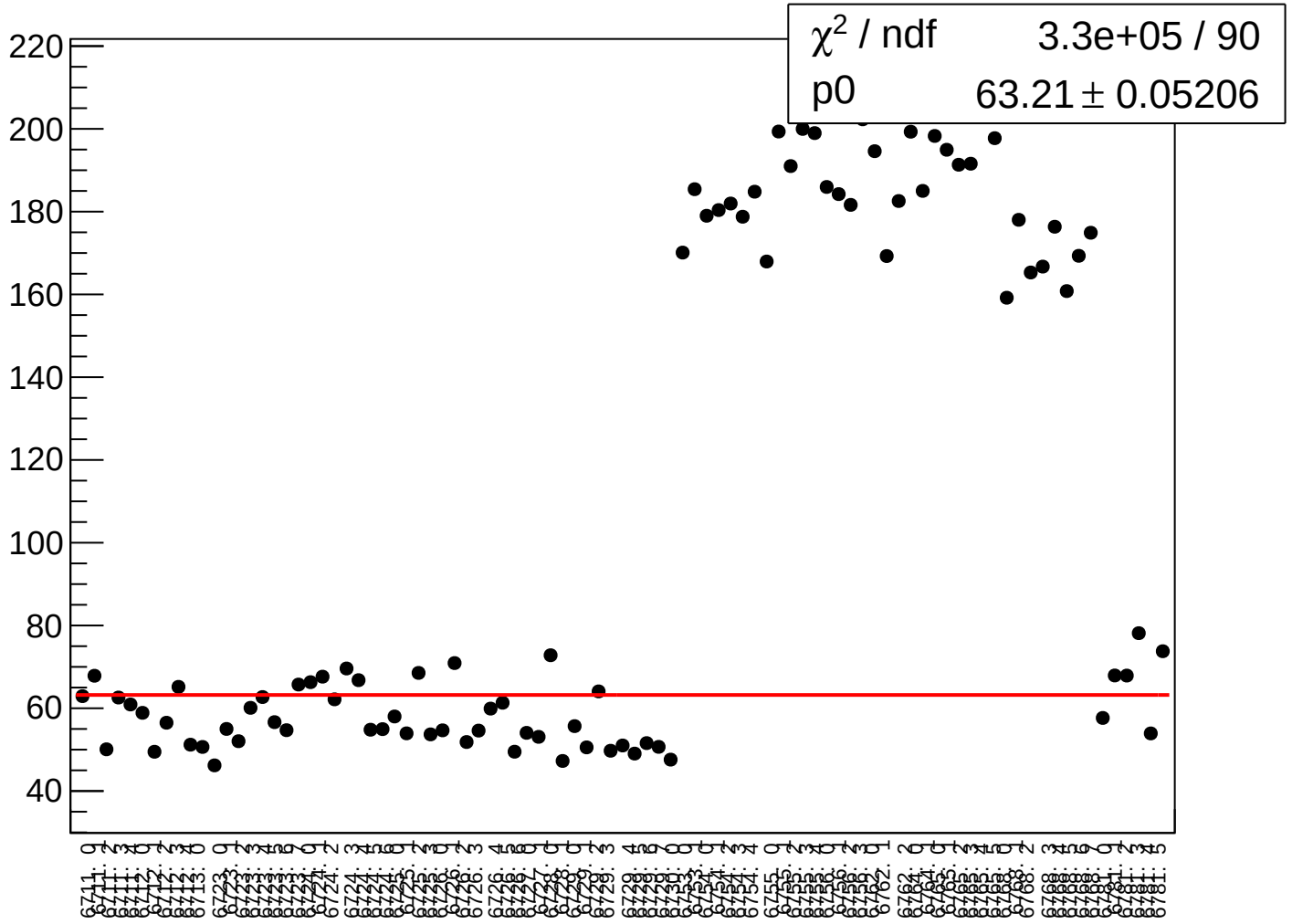

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.3e+05 / 90
p0 63.21 ± 0.05206
220
200
180
160
140
120
100
80
60
40

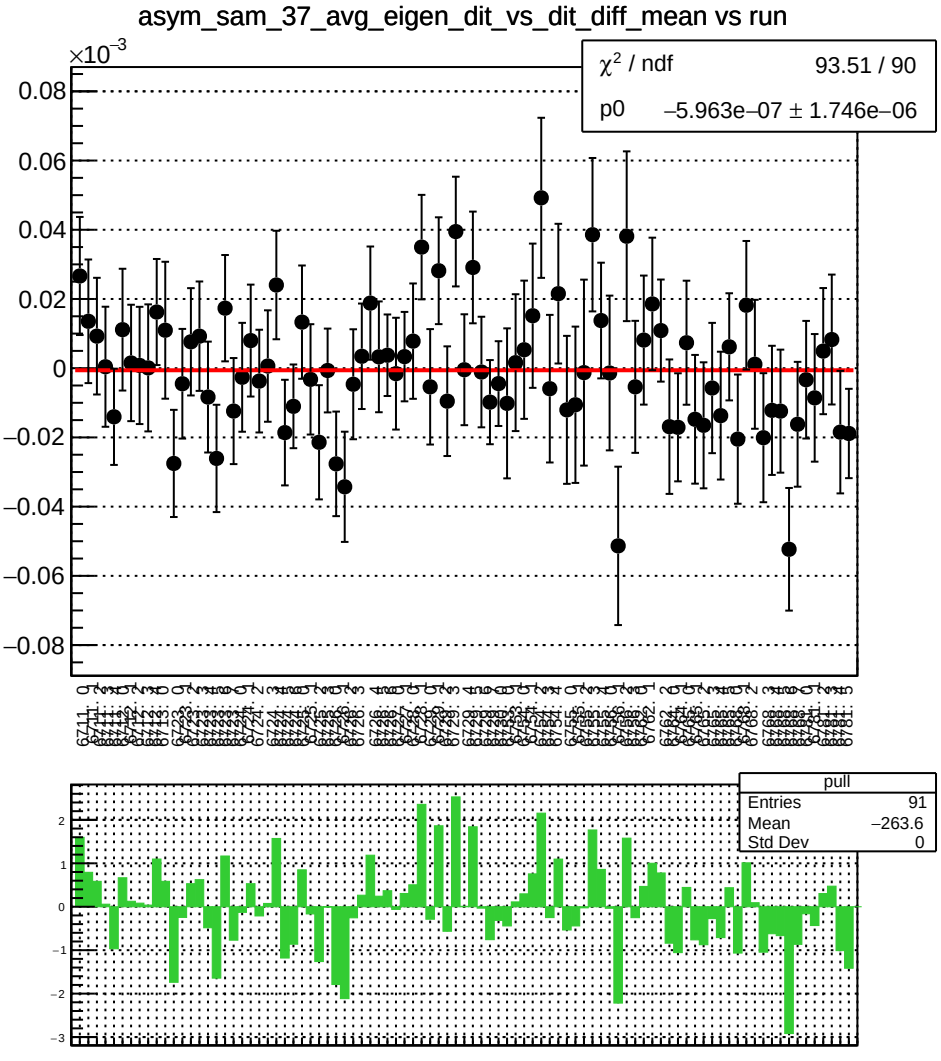
asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run

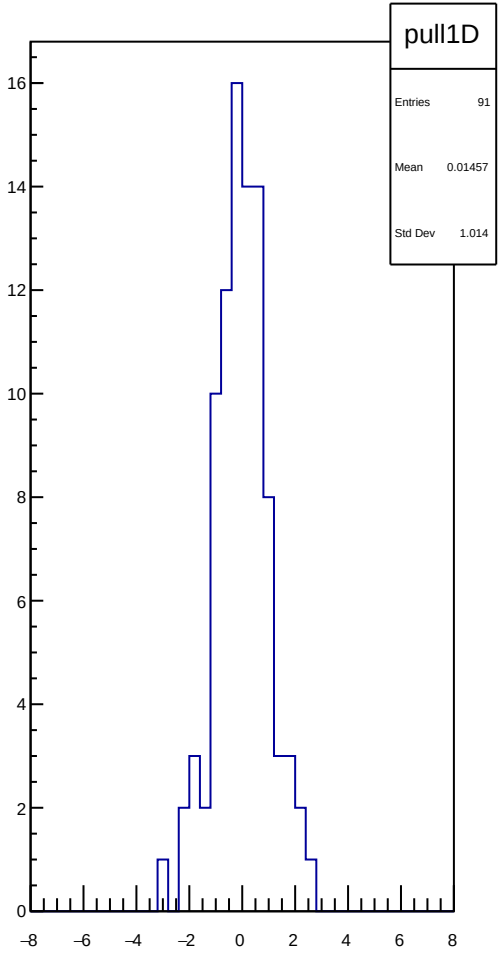


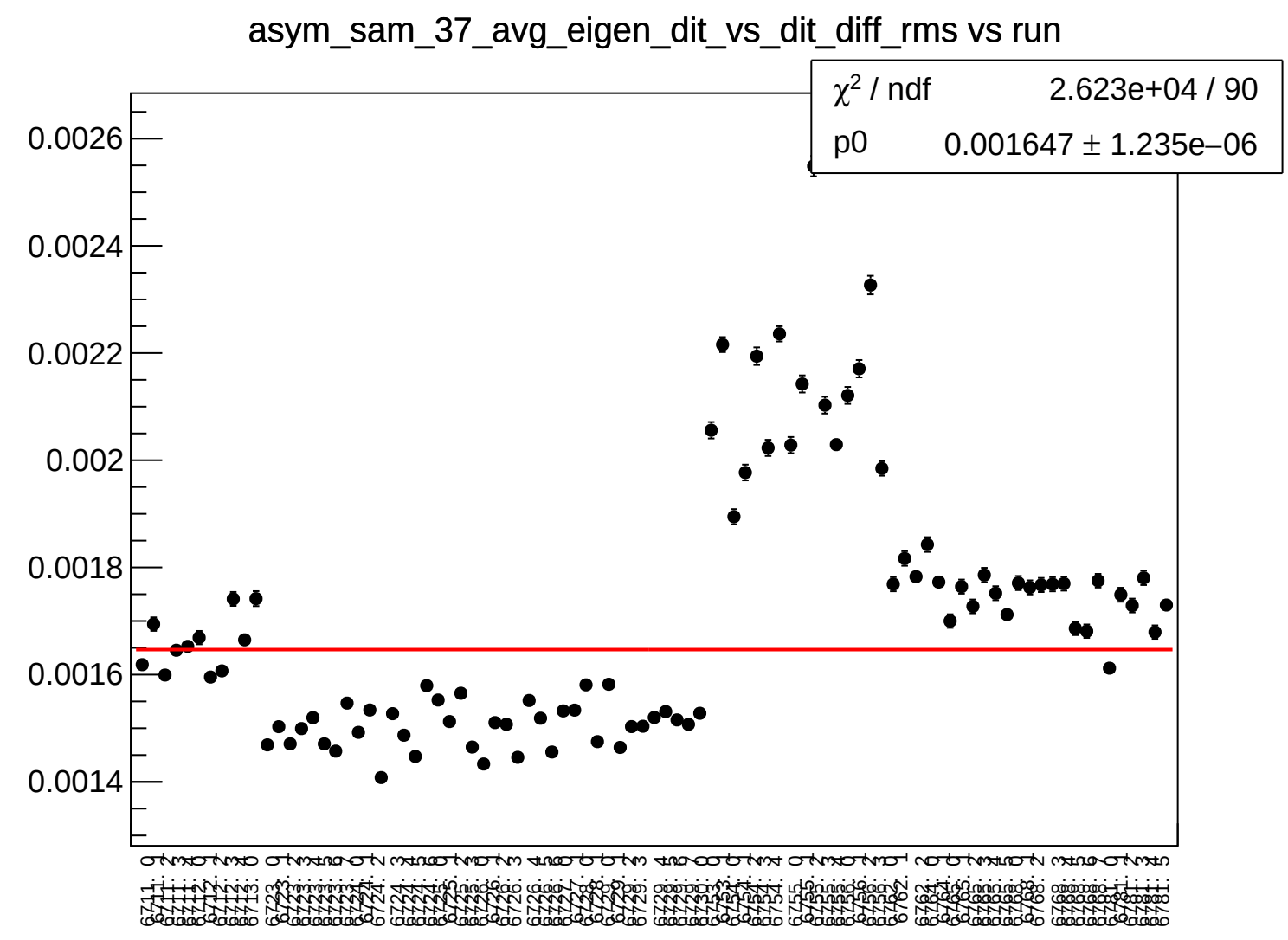


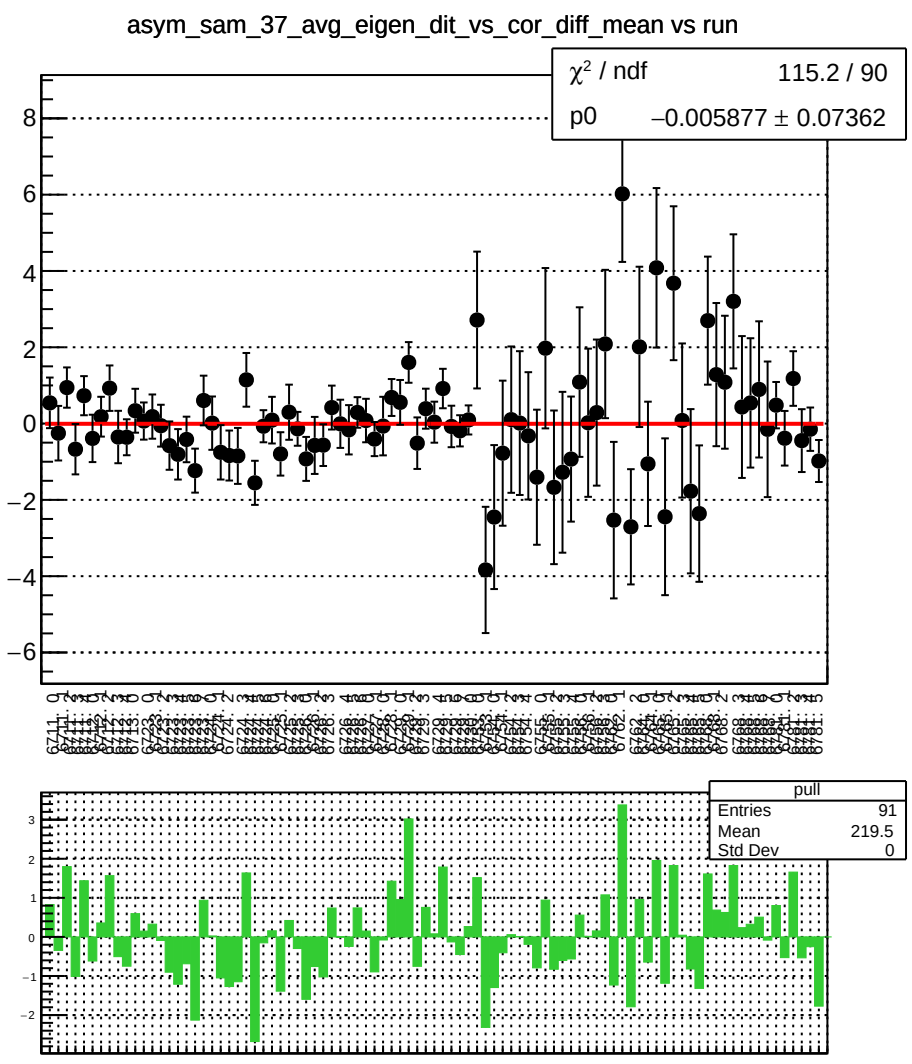


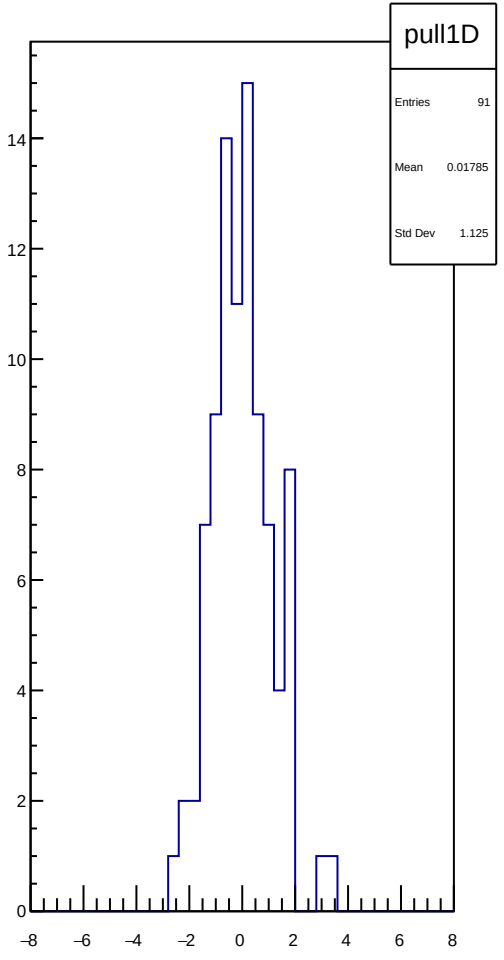

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.3e+05 / 90
p0 63.21 ± 0.05206
220
200
180
160
140
120
100
80
60
40

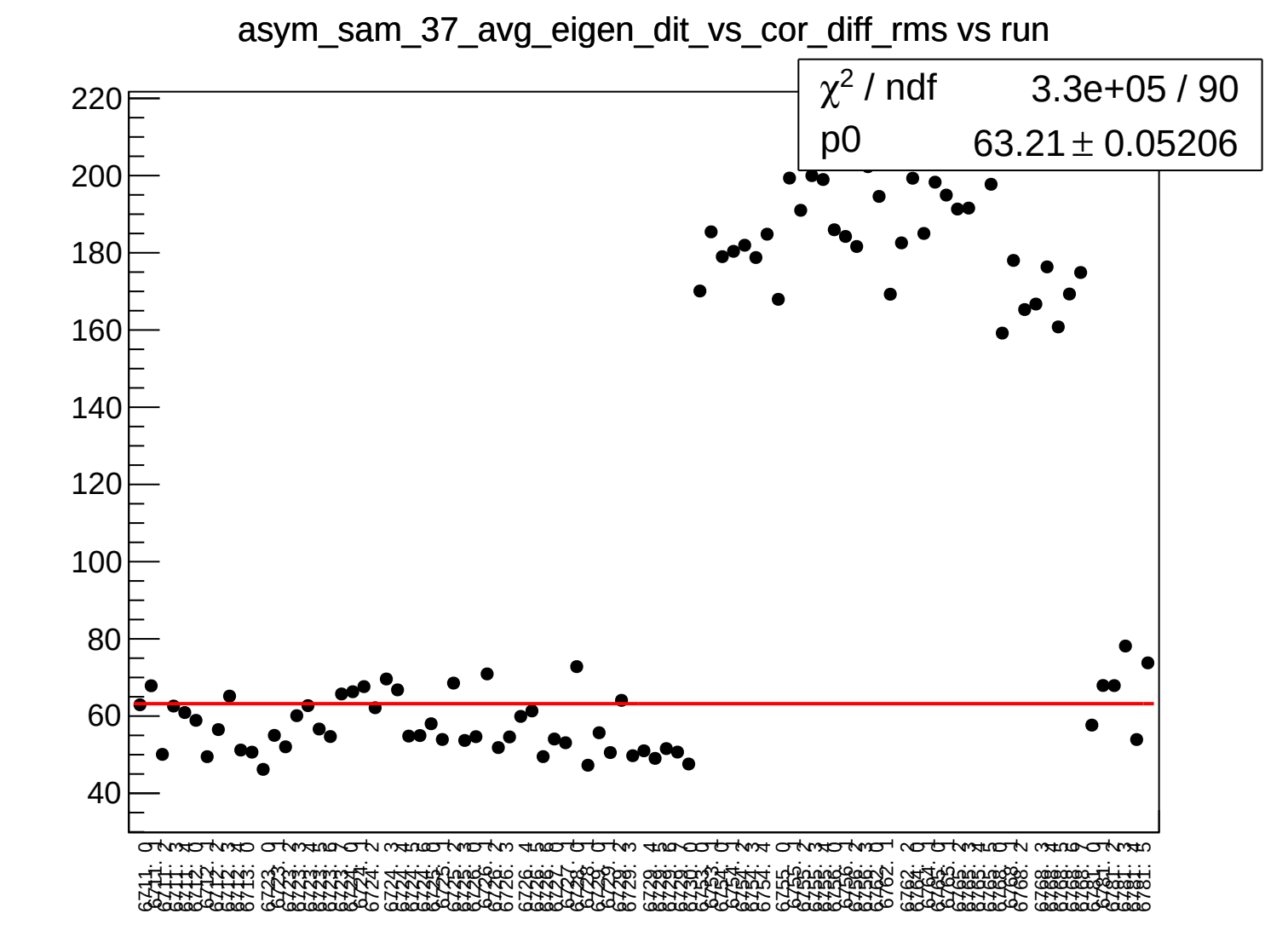

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.51 / 90
p0 −5.963e−07 ± 1.746e−06
pull
Entries 91
Mean −263.6
Std Dev 0

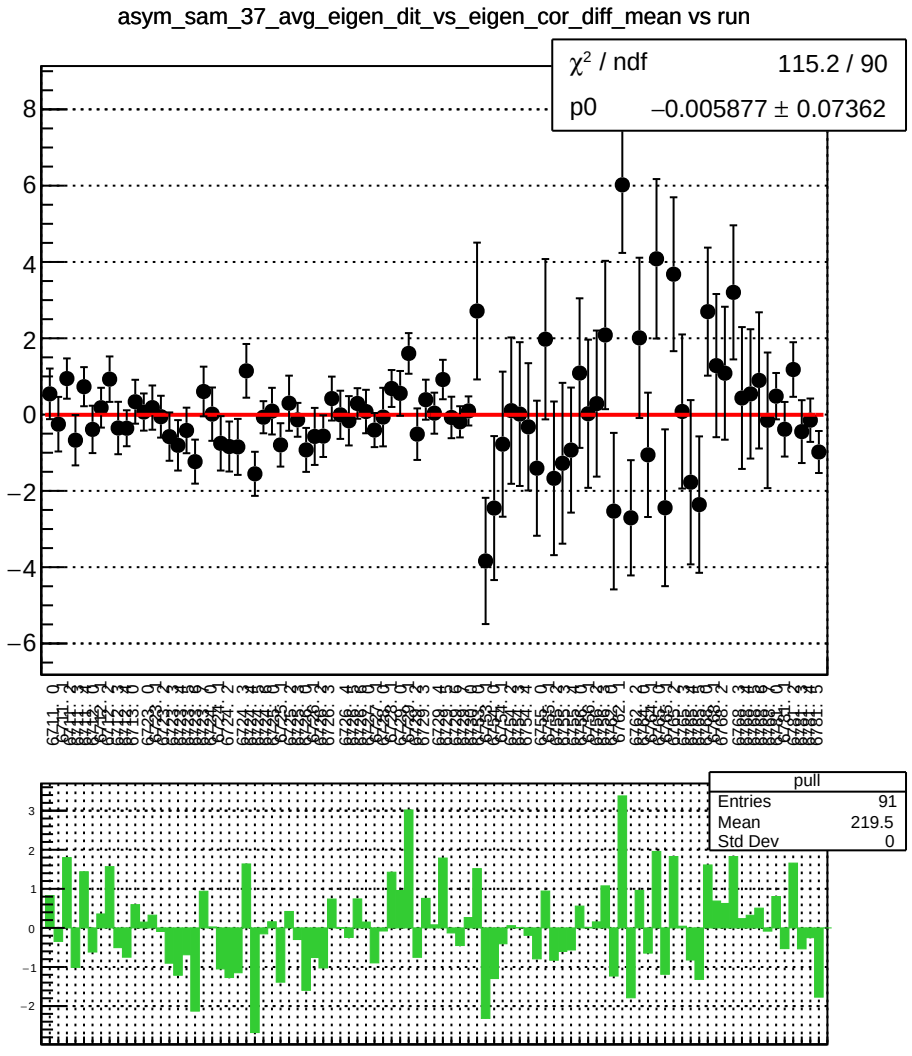

pull1D
Entries 91
Mean 0.01457
Std Dev 1.014

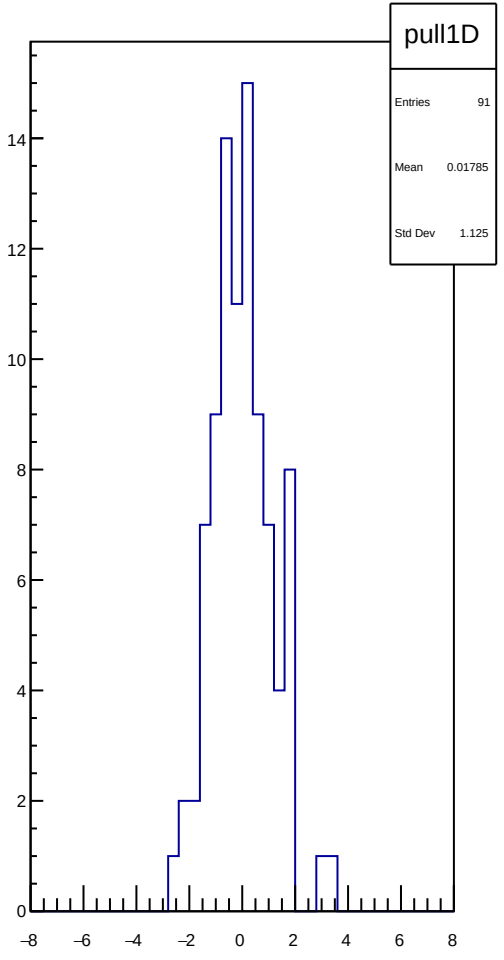

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.623e+04 / 90
p0 0.001647 ± 1.235e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

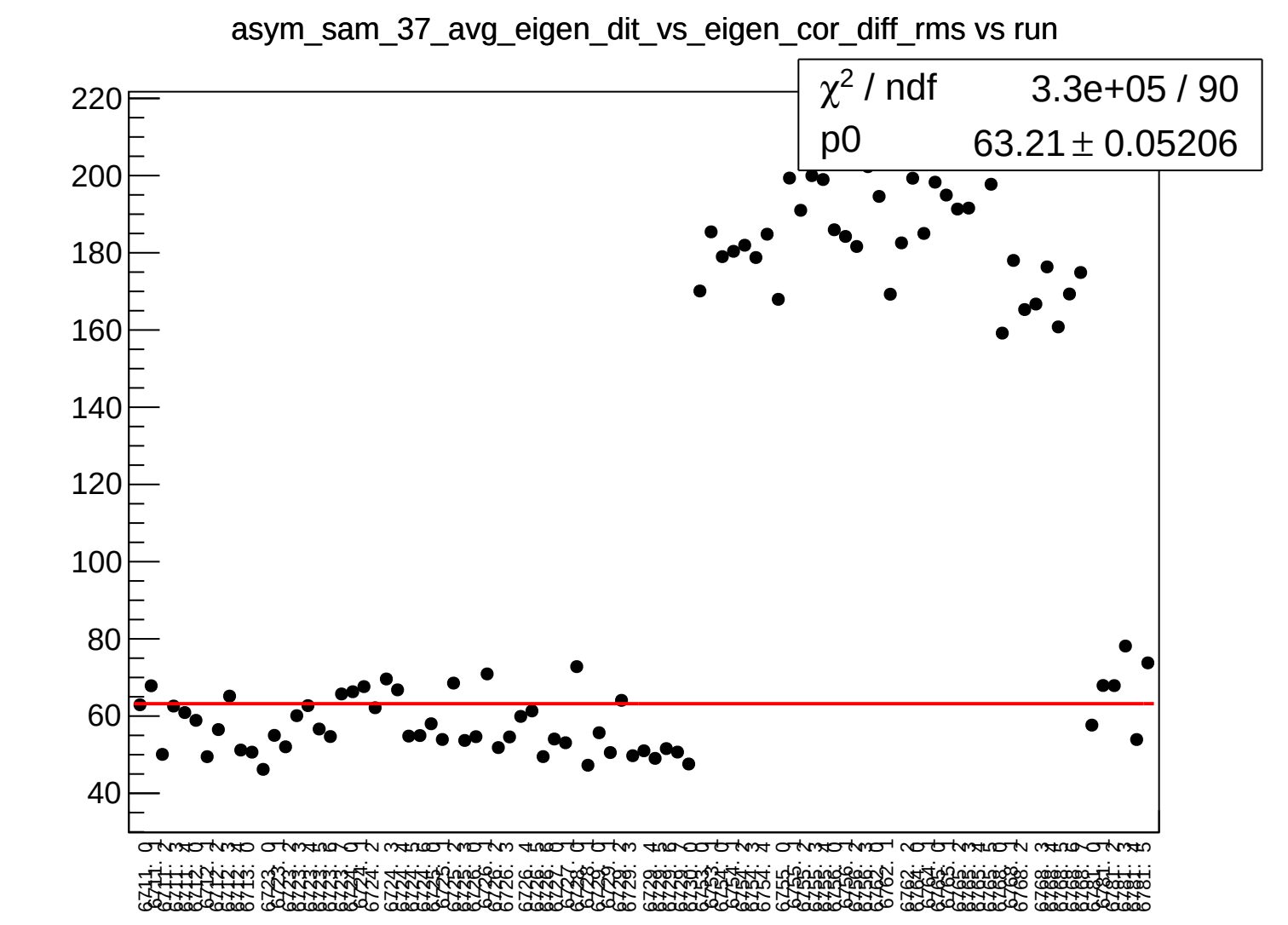

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 115.2 / 90
p0 −0.005877 ± 0.07362
pull
Entries 91
Mean 219.5
Std Dev 0

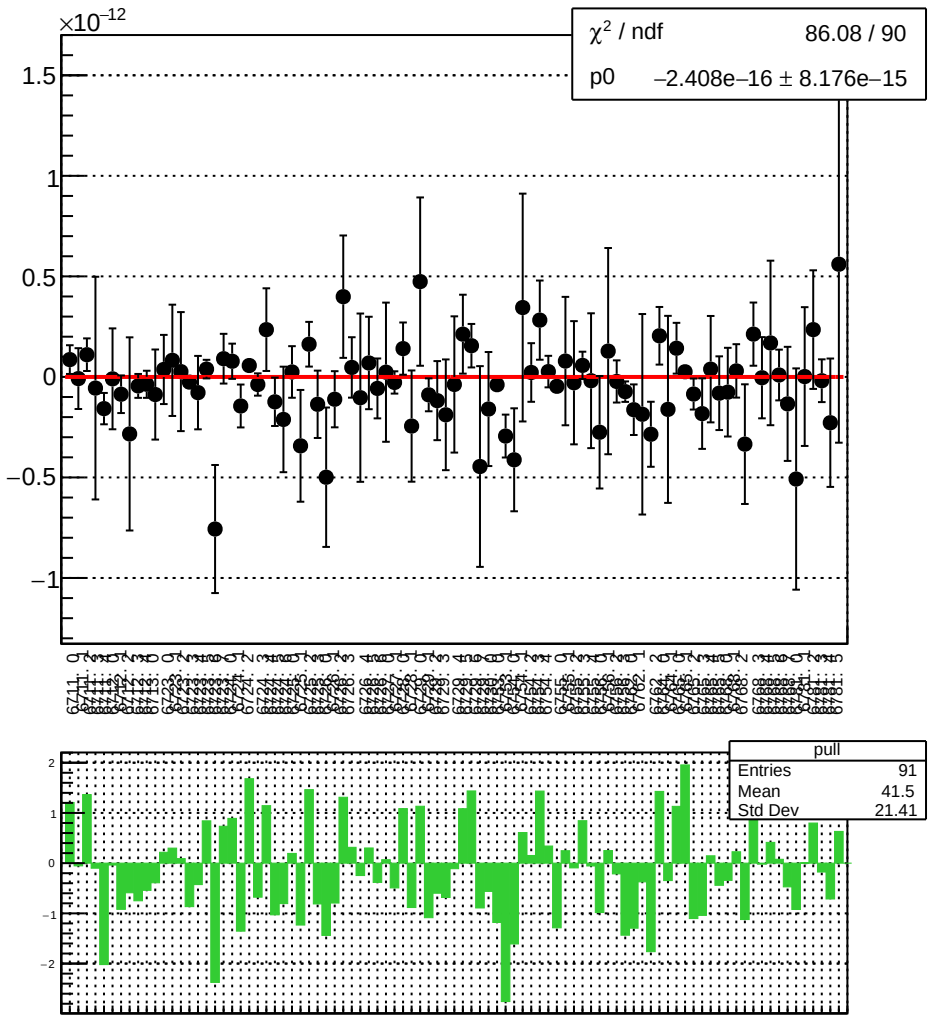

pull1D
Entries 91
Mean 0.01785
Std Dev 1.125

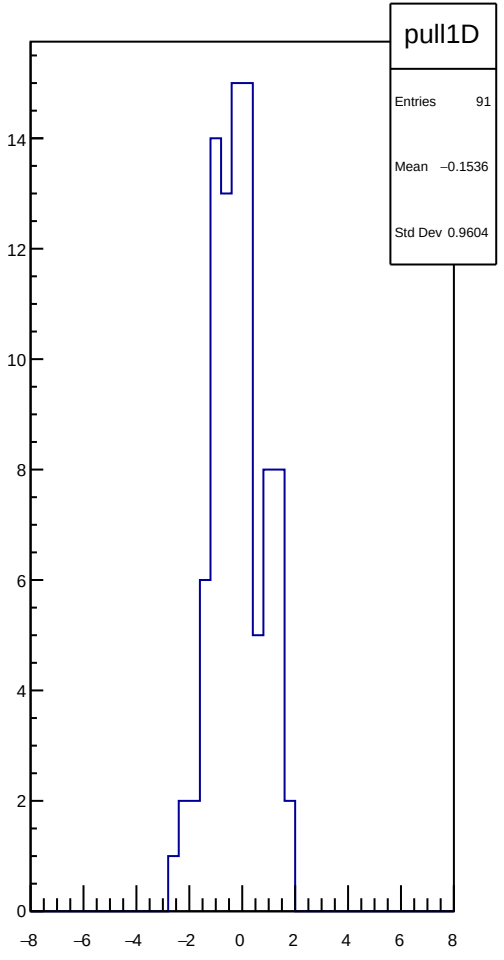

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.3e+05 / 90
p0 63.21 ± 0.05206
220
200
180
160
140
120
100
80
60
40

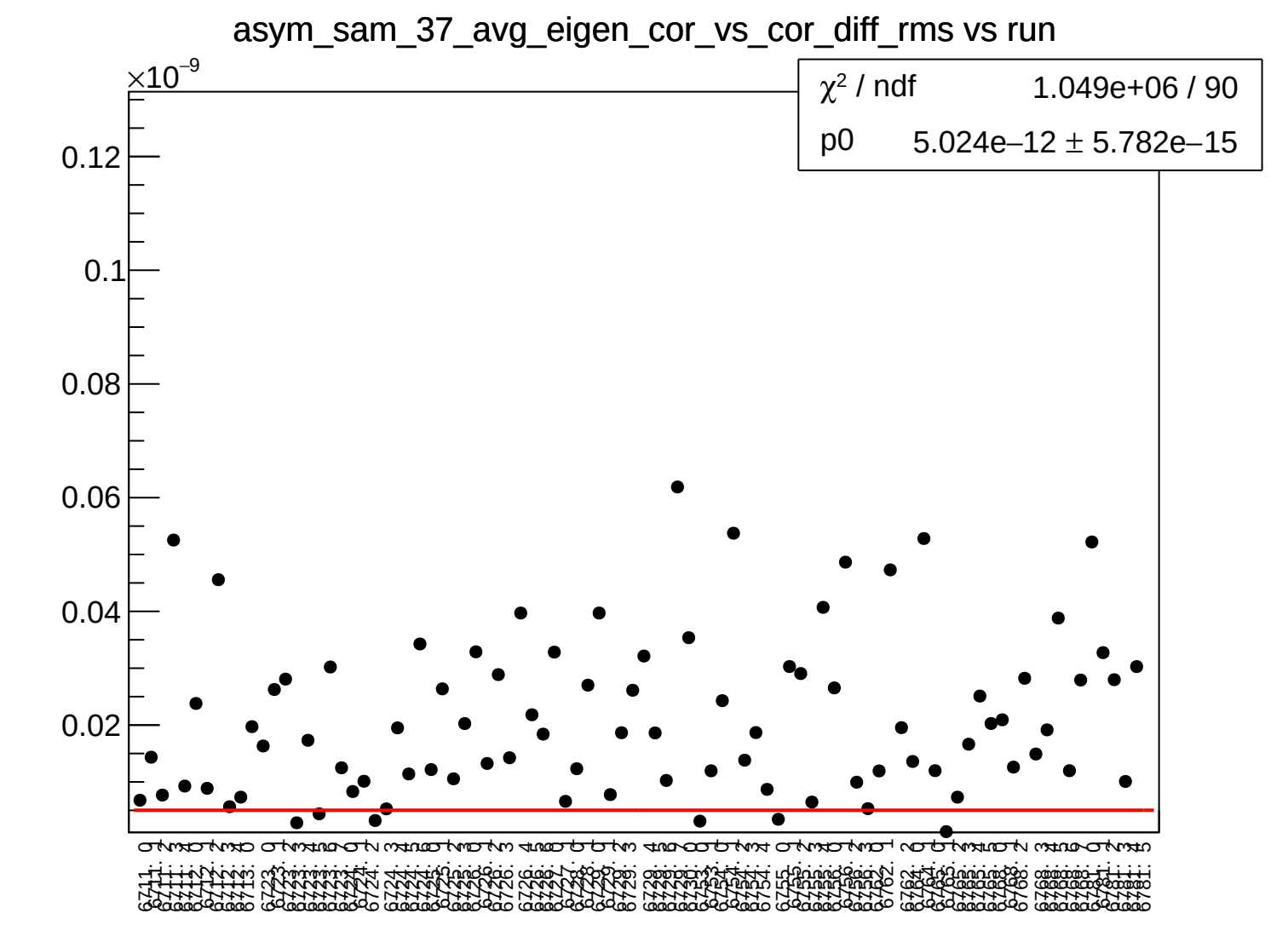

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.2 / 90
p0 −0.005877 ± 0.07362
pull
Entries 91
Mean 219.5
Std Dev 0

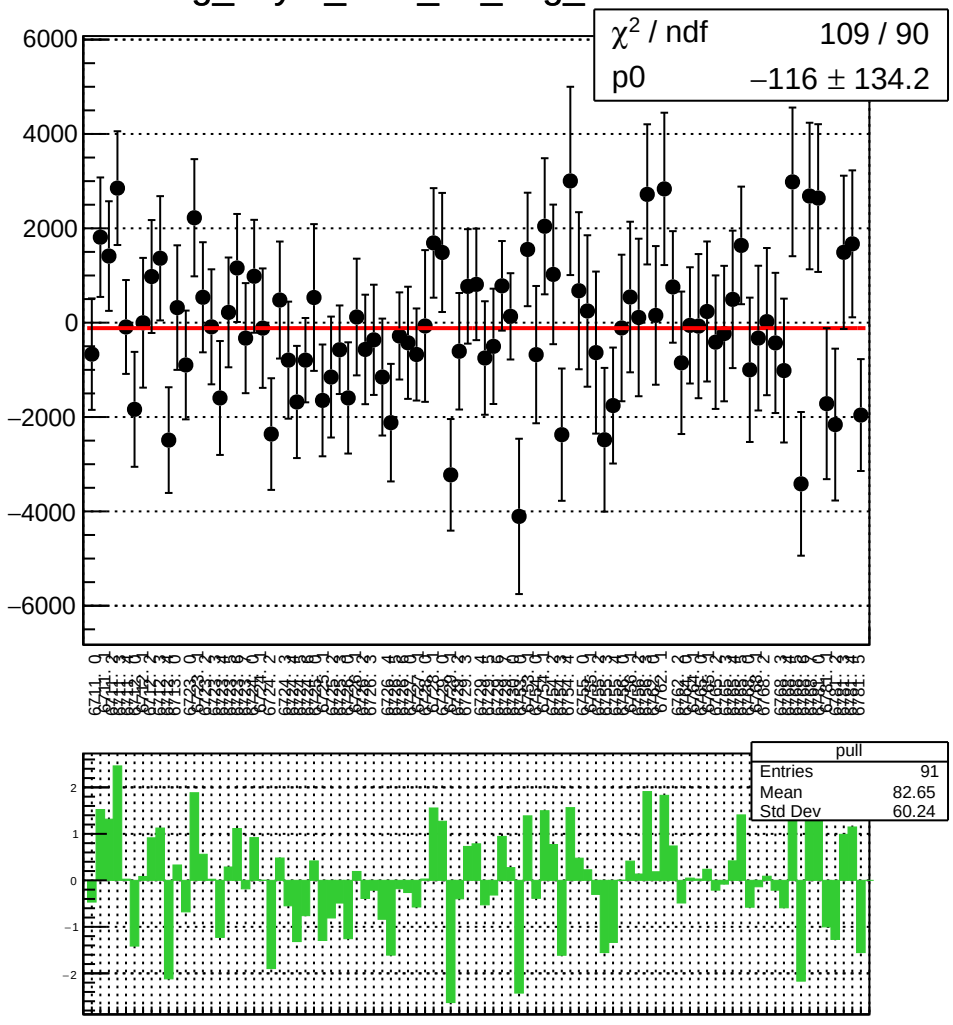

pull1D
Entries 91
Mean 0.01785
Std Dev 1.125

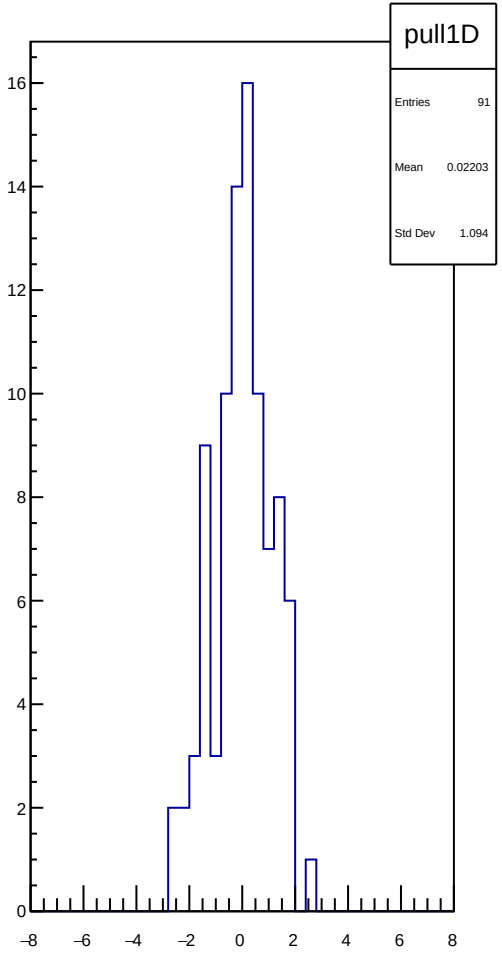

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.3e+05 / 90
p0 63.21 ± 0.05206
220
200
180
160
140
120
100
80
60
40

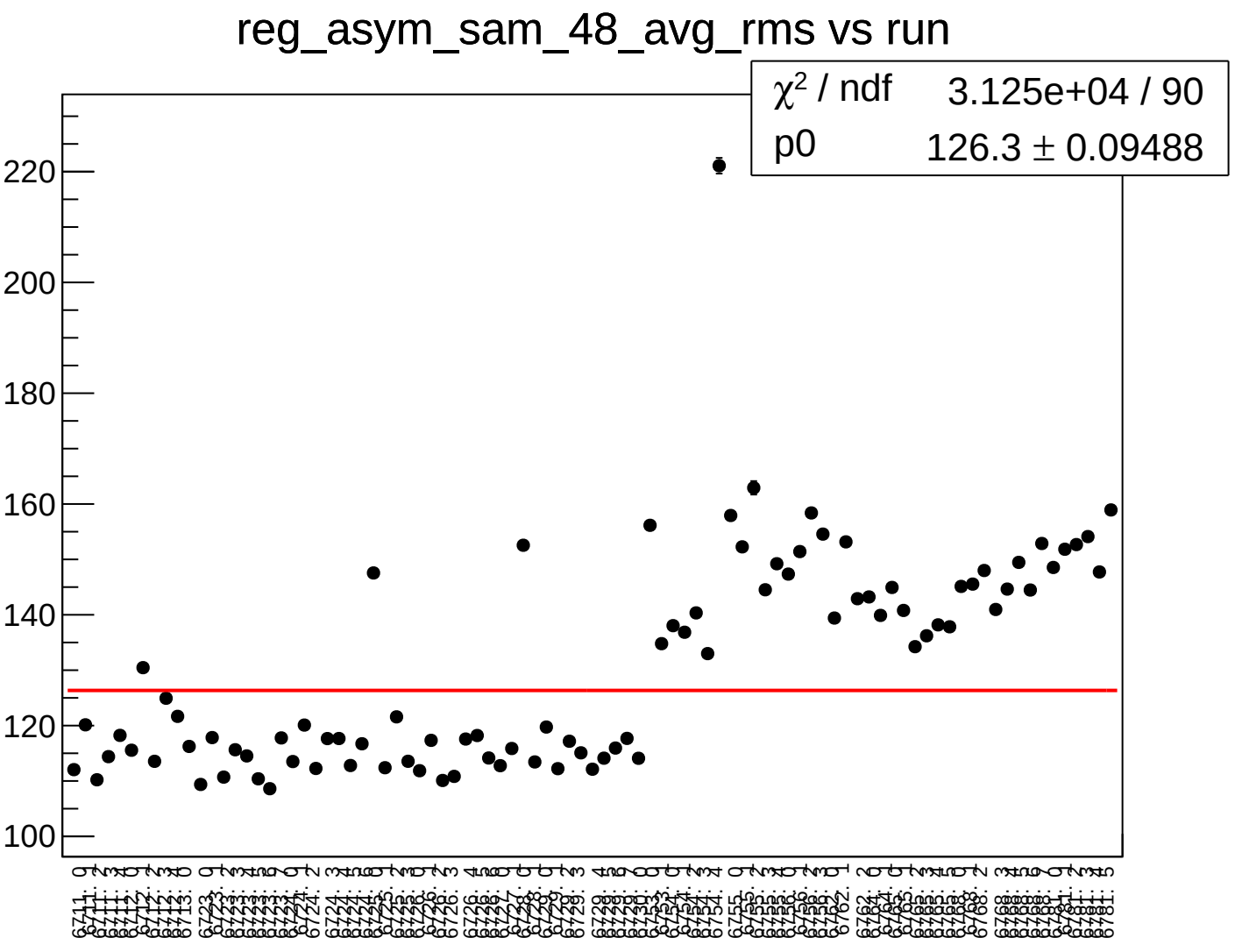

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.08 / 90
p0 −2.408e−16 ± 8.176e−15
pull
Entries 91
Mean 41.5
Std Dev 21.41

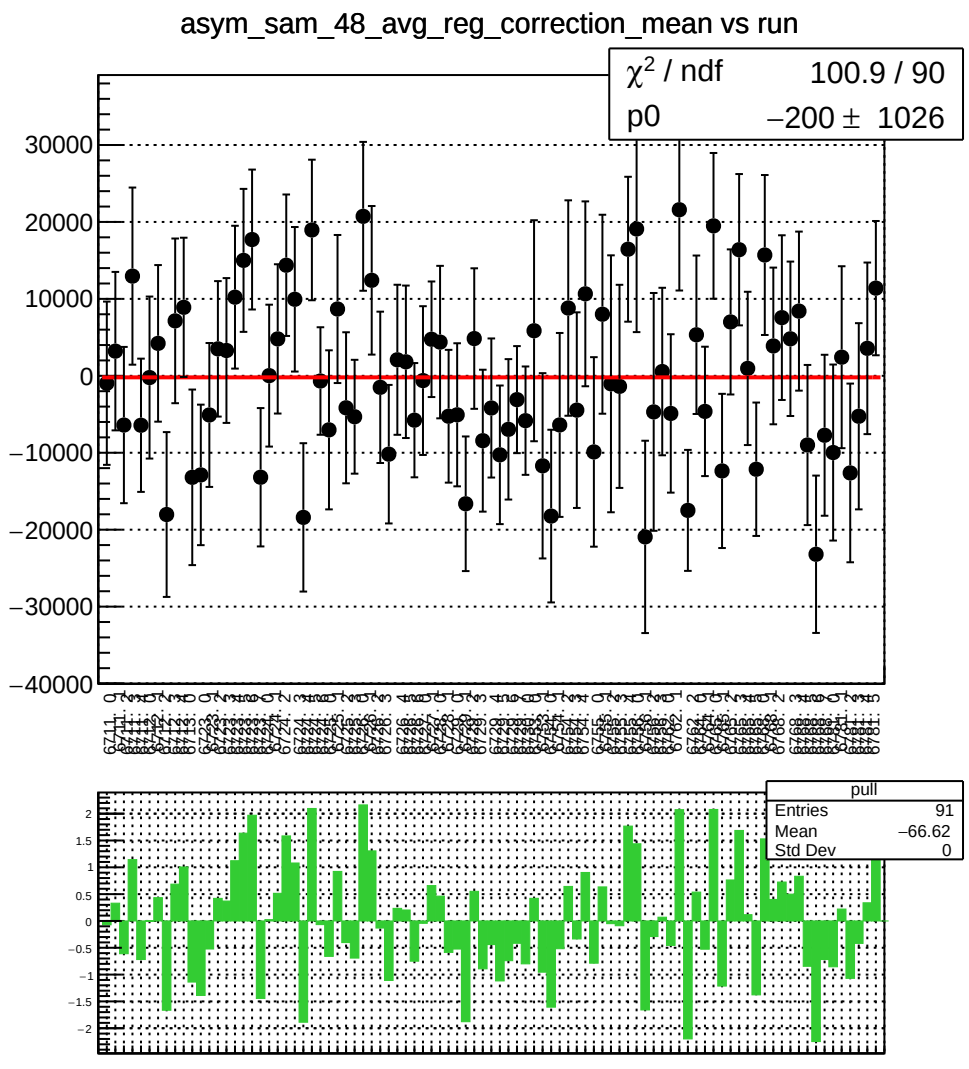

pull1D
Entries 91
Mean −0.1536
Std Dev 0.9604

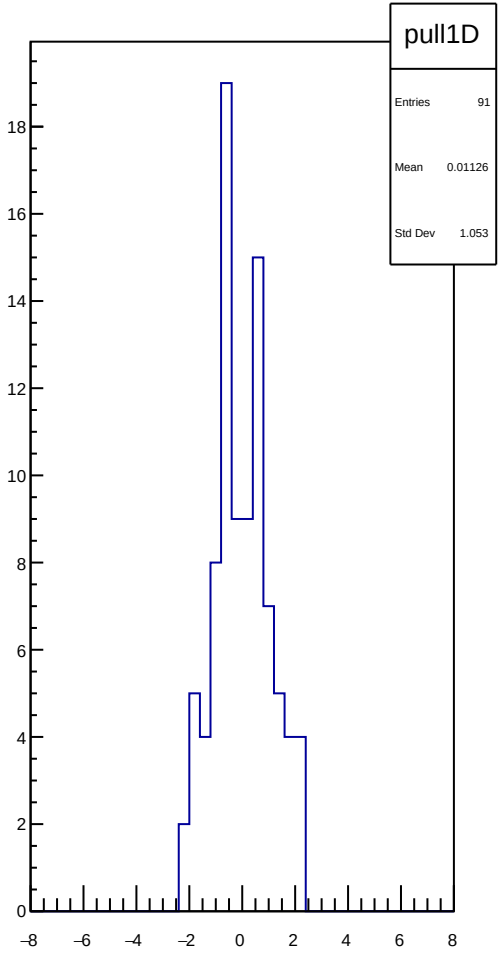

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.049e+06 / 90
p0 5.024e−12 ± 5.782e−15
0.12
0.1
0.08
0.06
0.04
0.02

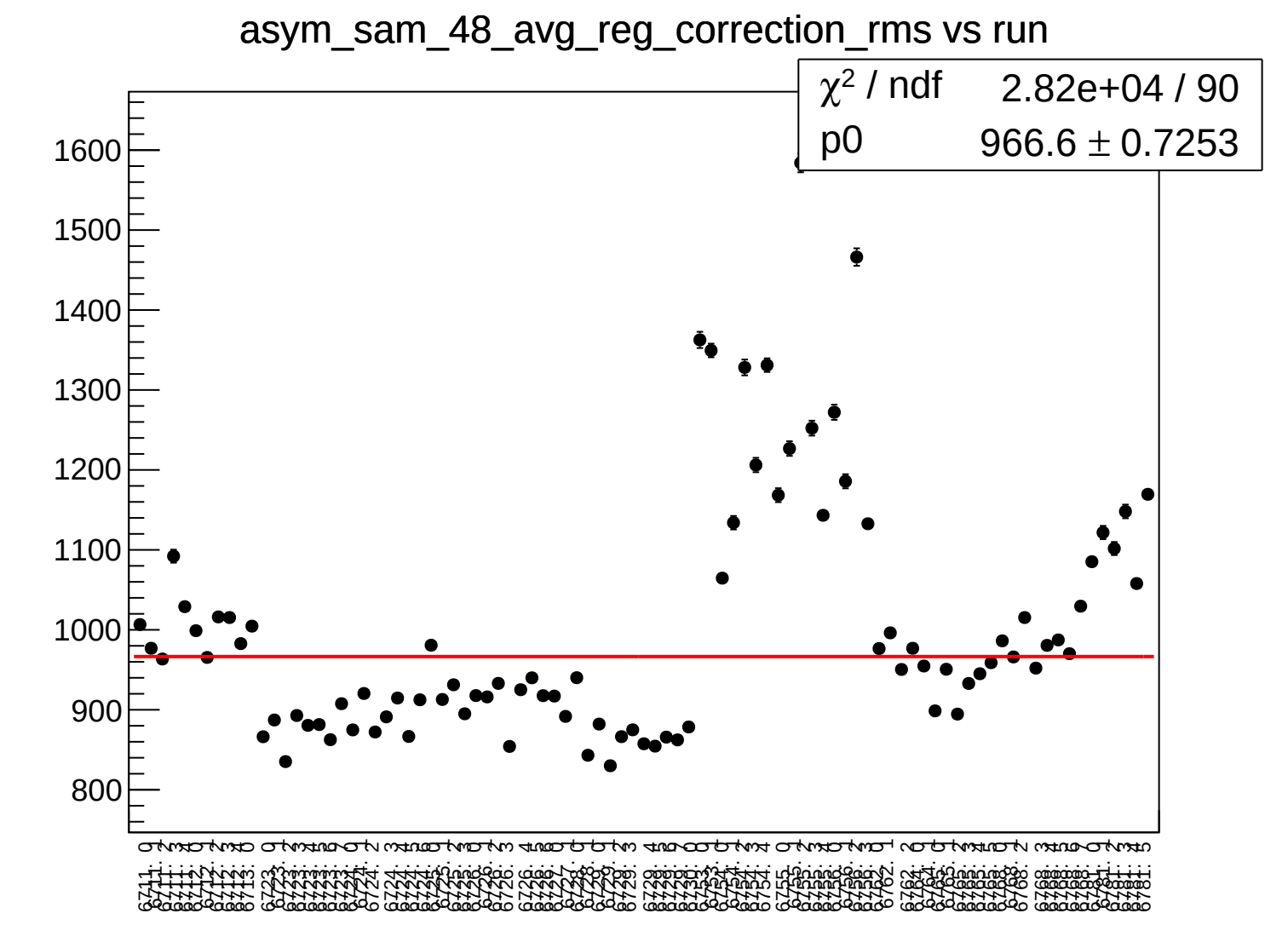

reg_asym_sam_48_avg_mean vs run
χ² / ndf 109 / 90
p0 −116 ± 134.2
pull
Entries 91
Mean 82.65
Std Dev 60.24

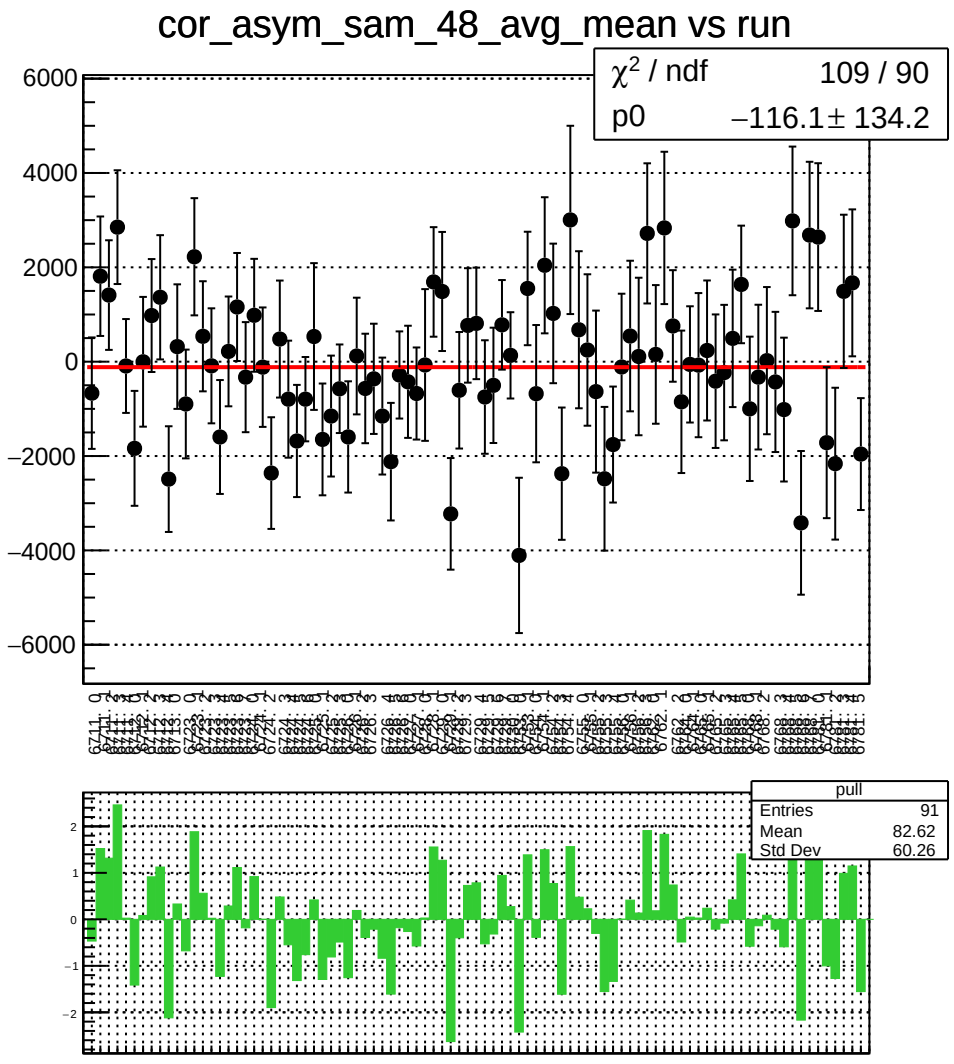

pull1D
Entries 91
Mean 0.02203
Std Dev 1.094

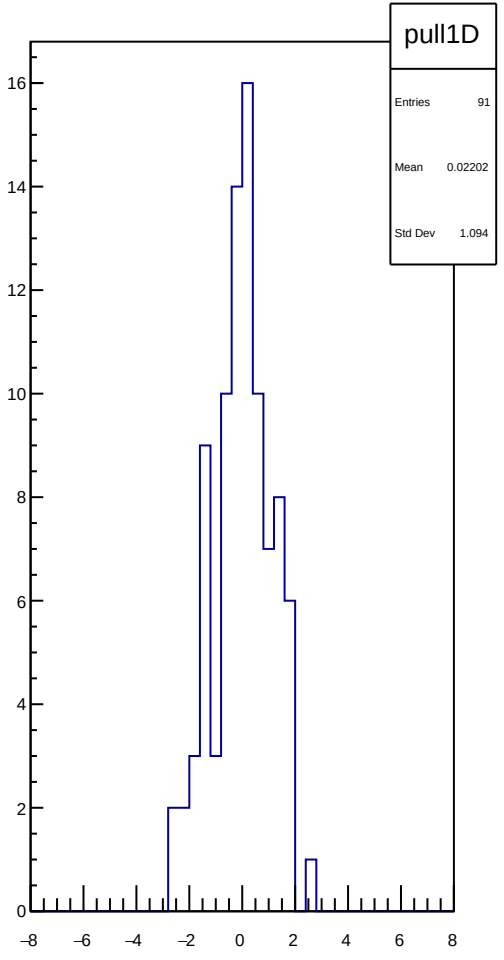

reg_asym_sam_48_avg_rms vs run
χ² / ndf 3.125e+04 / 90
p0 126.3 ± 0.09488
220
200
180
160
140
120
100

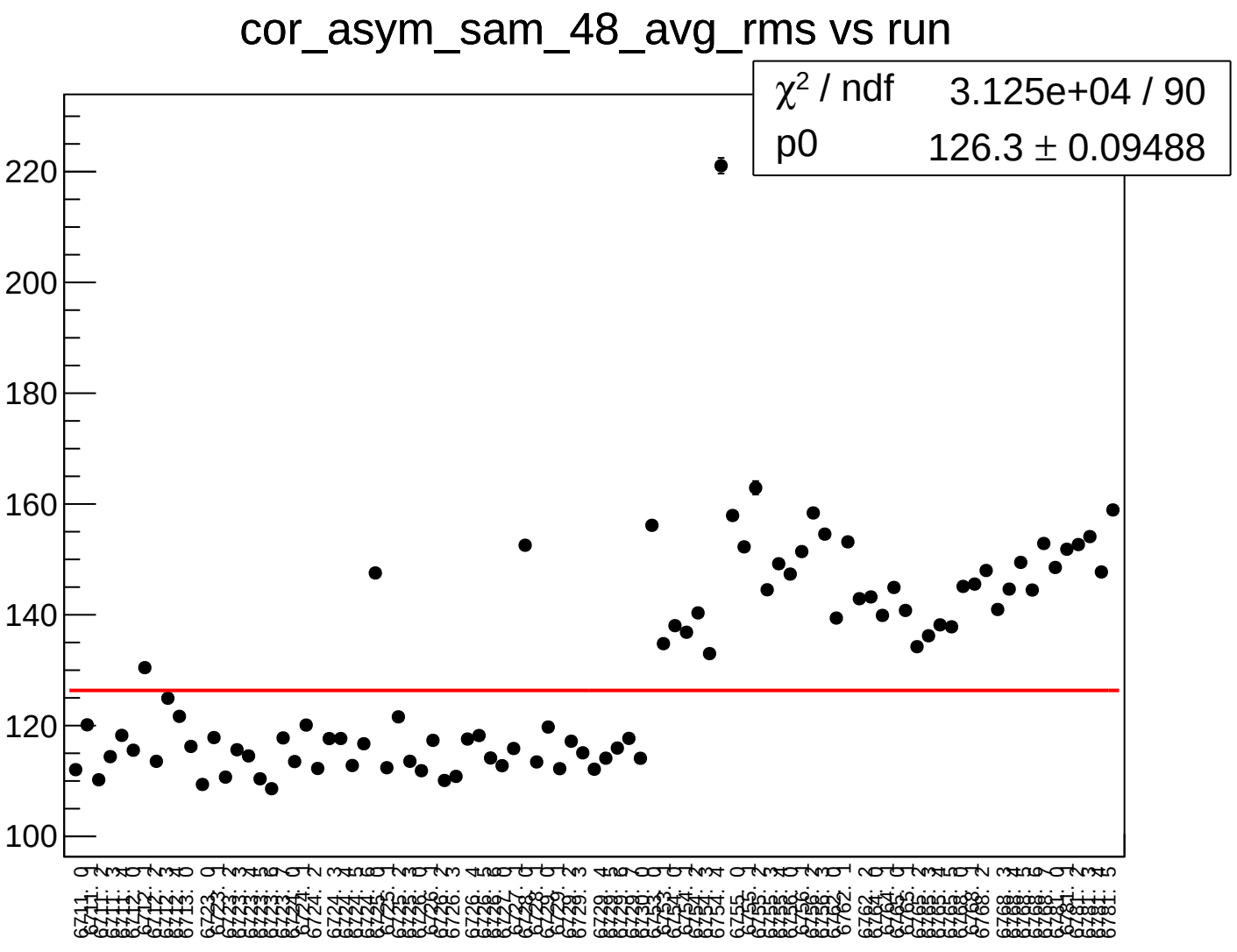

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 100.9 / 90
p0 −200 ± 1026
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean −66.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

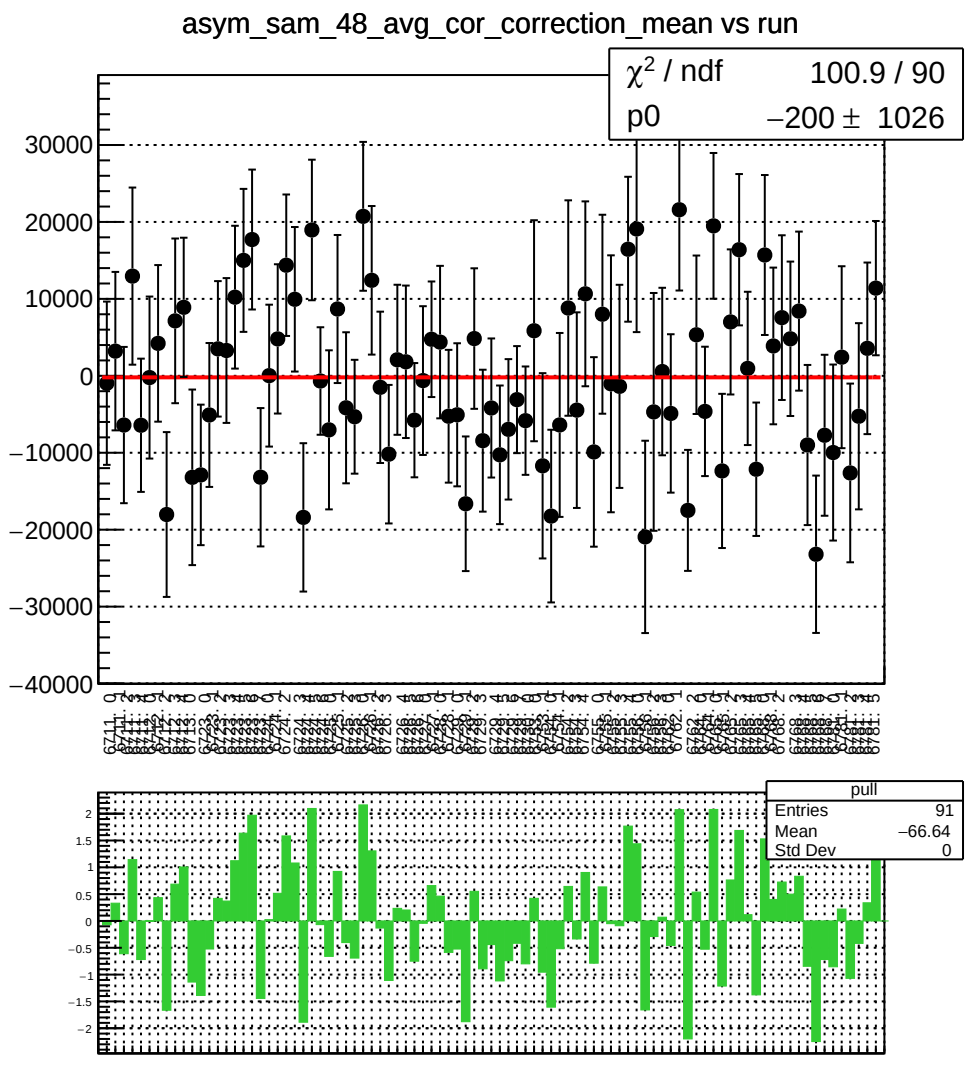

pull1D
Entries 91
Mean 0.01126
Std Dev 1.053
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

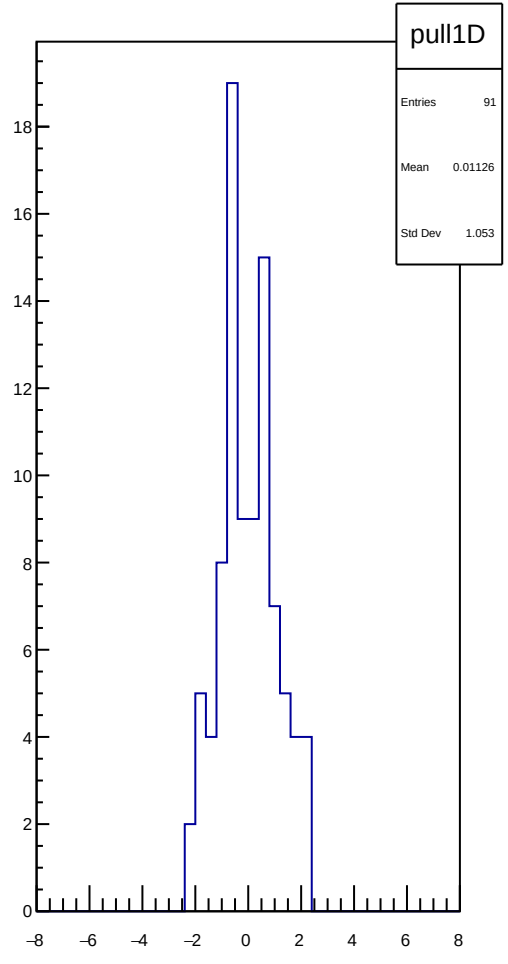

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 2.82e+04 / 90
p0 966.6 ± 0.7253
1600
1500
1400
1300
1200
1100
1000
900
800

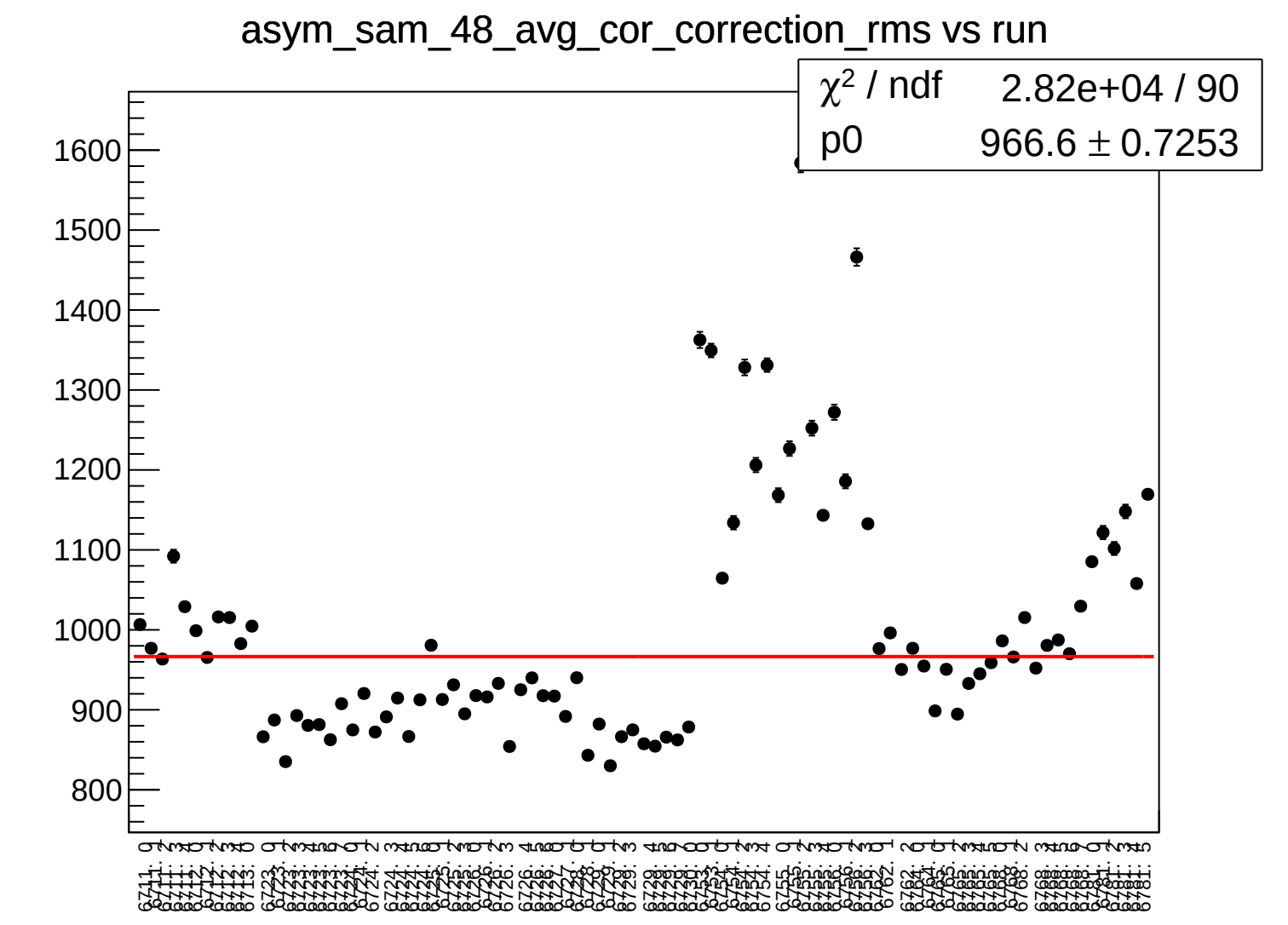

cor_asym_sam_48_avg_mean vs run
χ² / ndf 109 / 90
p0 −116.1± 134.2
pull
Entries 91
Mean 82.62
Std Dev 60.26

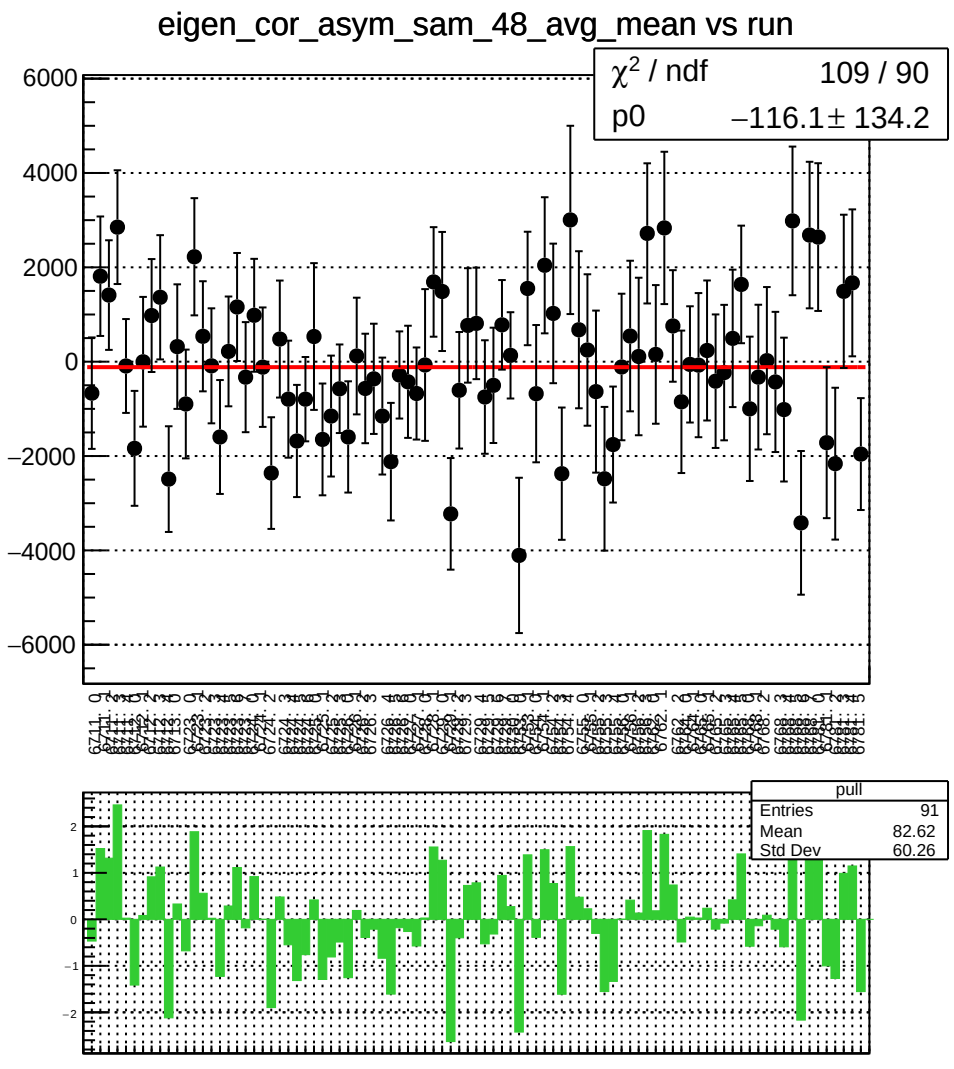

pull1D
Entries 91
Mean 0.02202
Std Dev 1.094

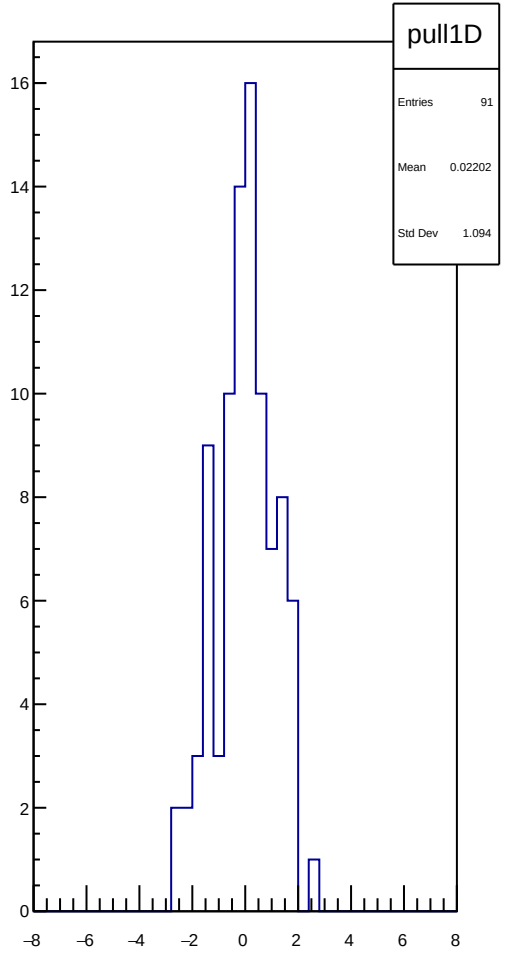

cor_asym_sam_48_avg_rms vs run
χ² / ndf 3.125e+04 / 90
p0 126.3 ± 0.09488
220
200
180
160
140
120
100

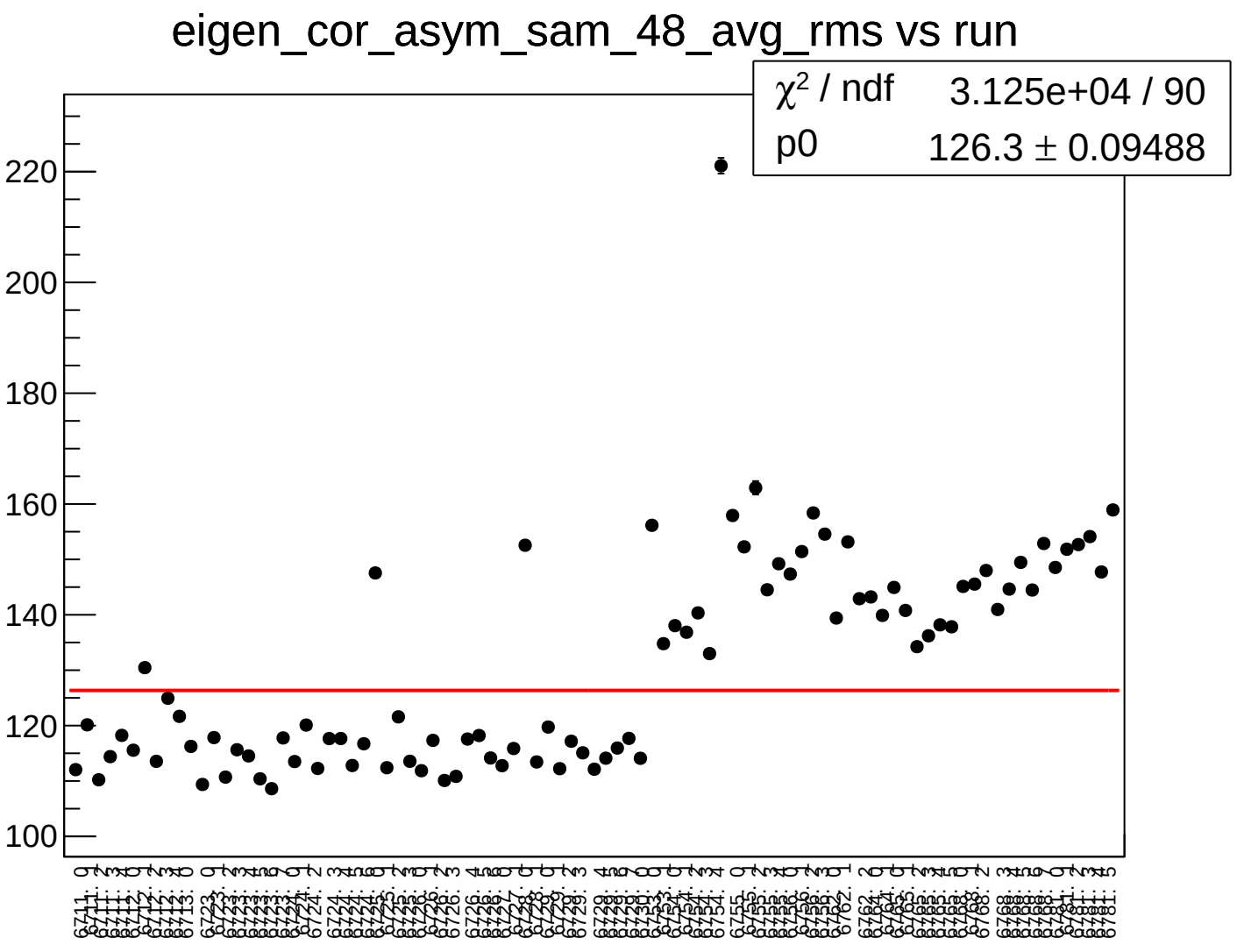

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 100.9 / 90
p0 −200 ± 1026
pull
Entries 91
Mean −66.64
Std Dev 0

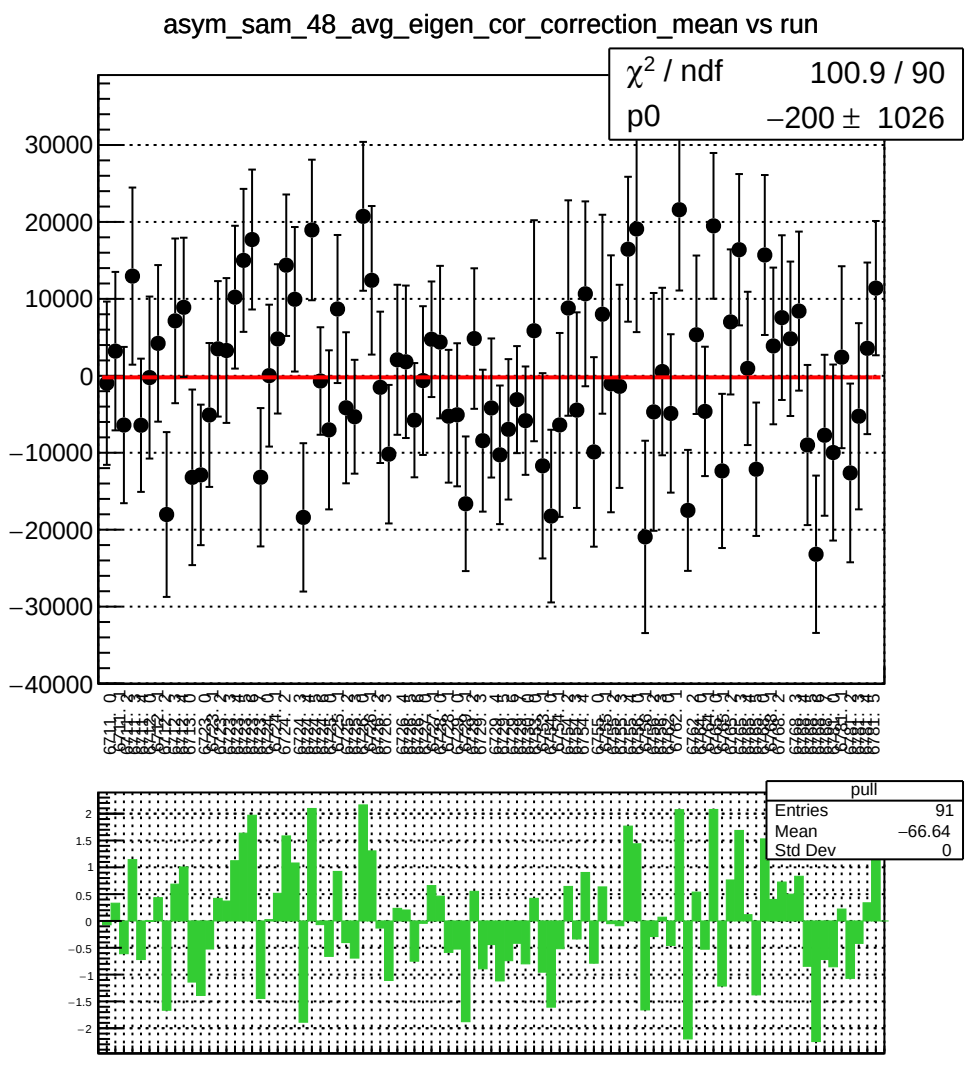

pull1D
Entries 91
Mean 0.01126
Std Dev 1.053

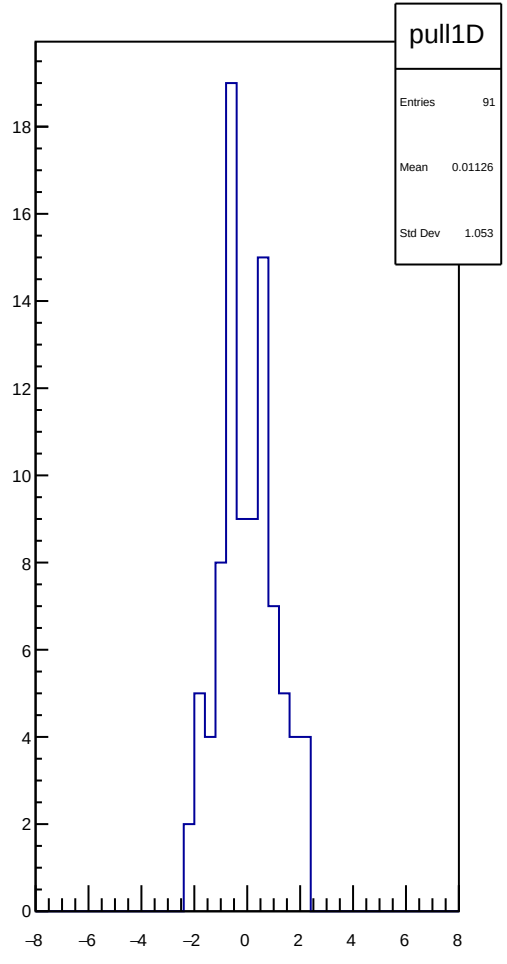

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 2.82e+04 / 90
p0 966.6 ± 0.7253
1600
1500
1400
1300
1200
1100
1000
900
800

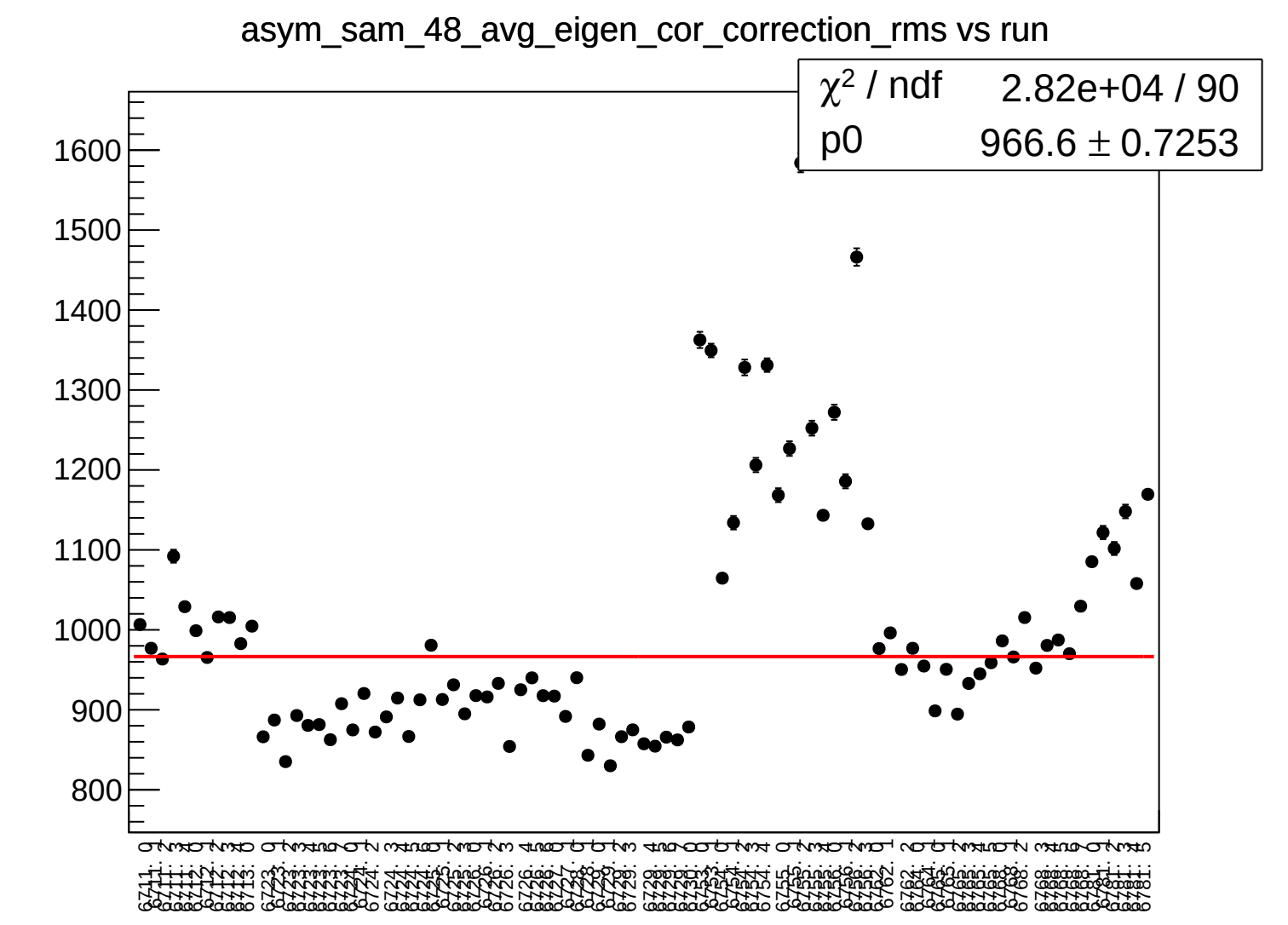

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 109 / 90
p0 −116.1± 134.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 82.62
Std Dev 60.26
2
1
0
−1
−2

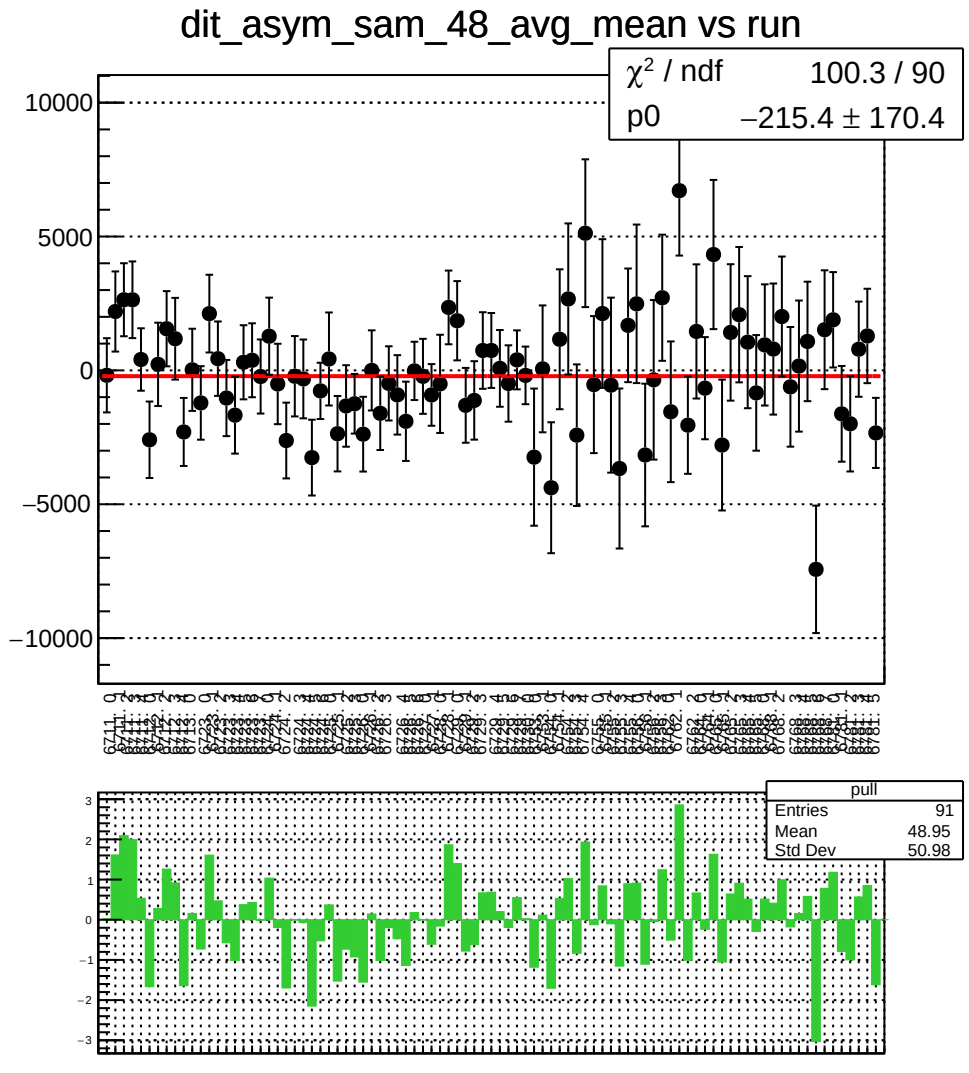

pull1D
Entries 91
Mean 0.02202
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

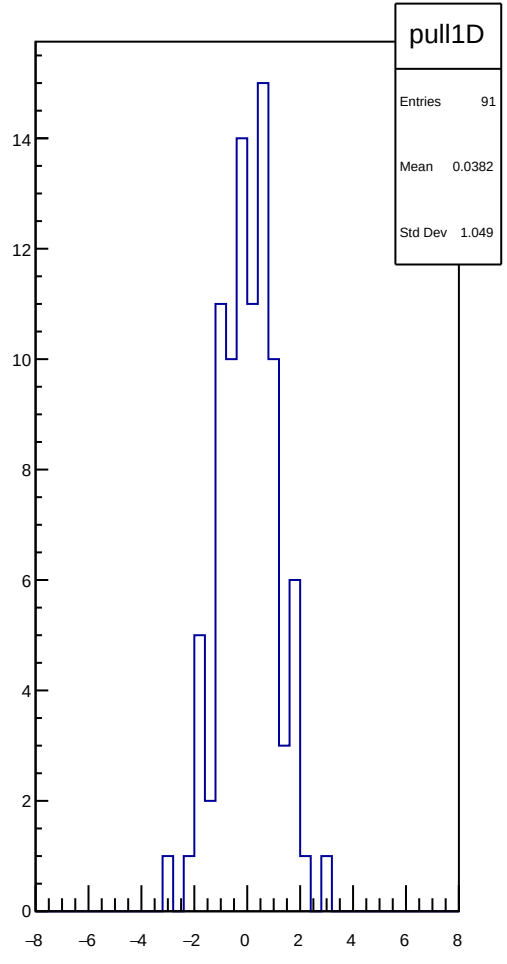

eigen_cor_asym_sam_48_avg_rms vs run
χ^2 / ndf 3.125e+04 / 90
p0 126.3 ± 0.09488
220
200
180
160
140
120
100

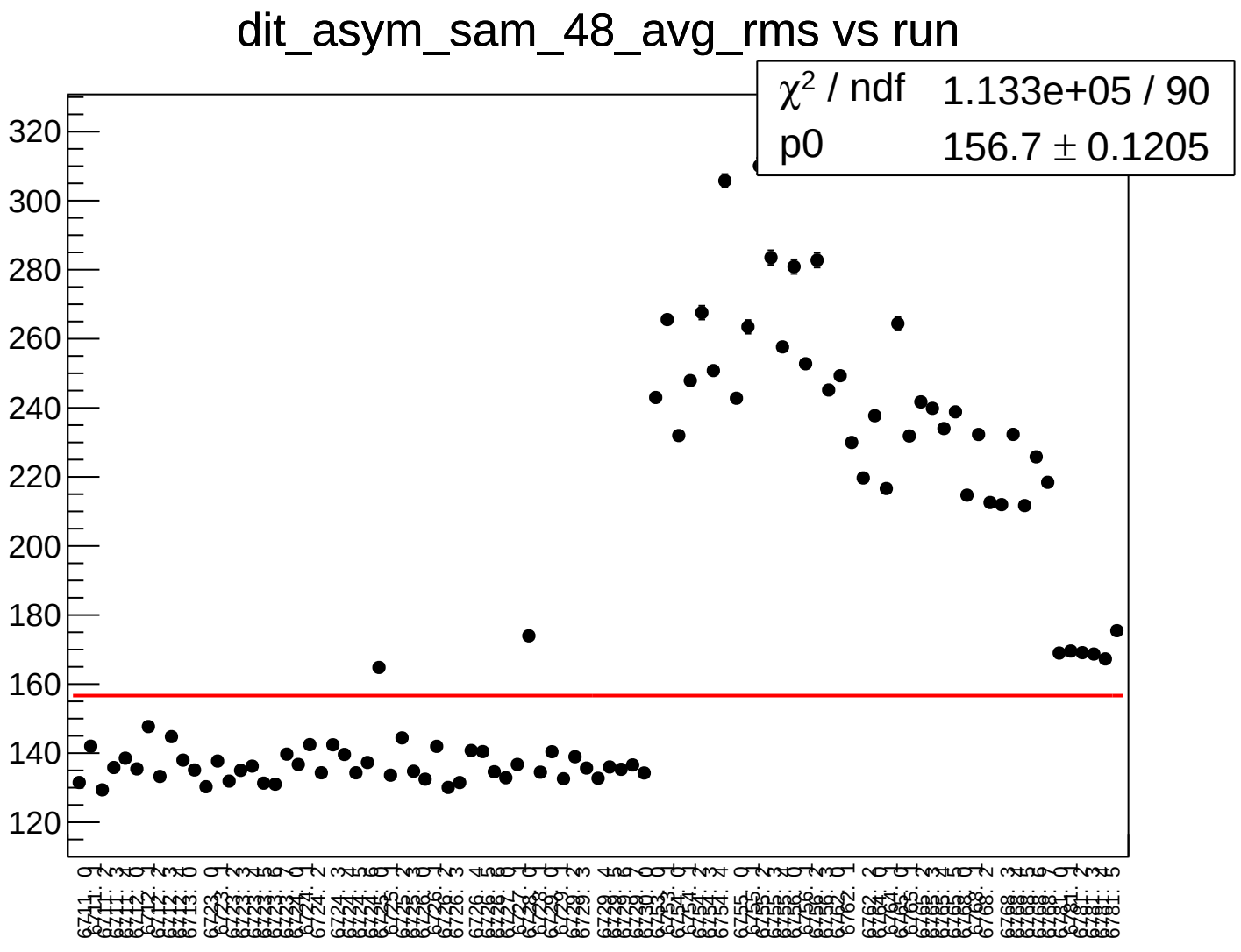

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 100.9 / 90
p0 −200 ± 1026
pull
Entries 91
Mean −66.64
Std Dev 0

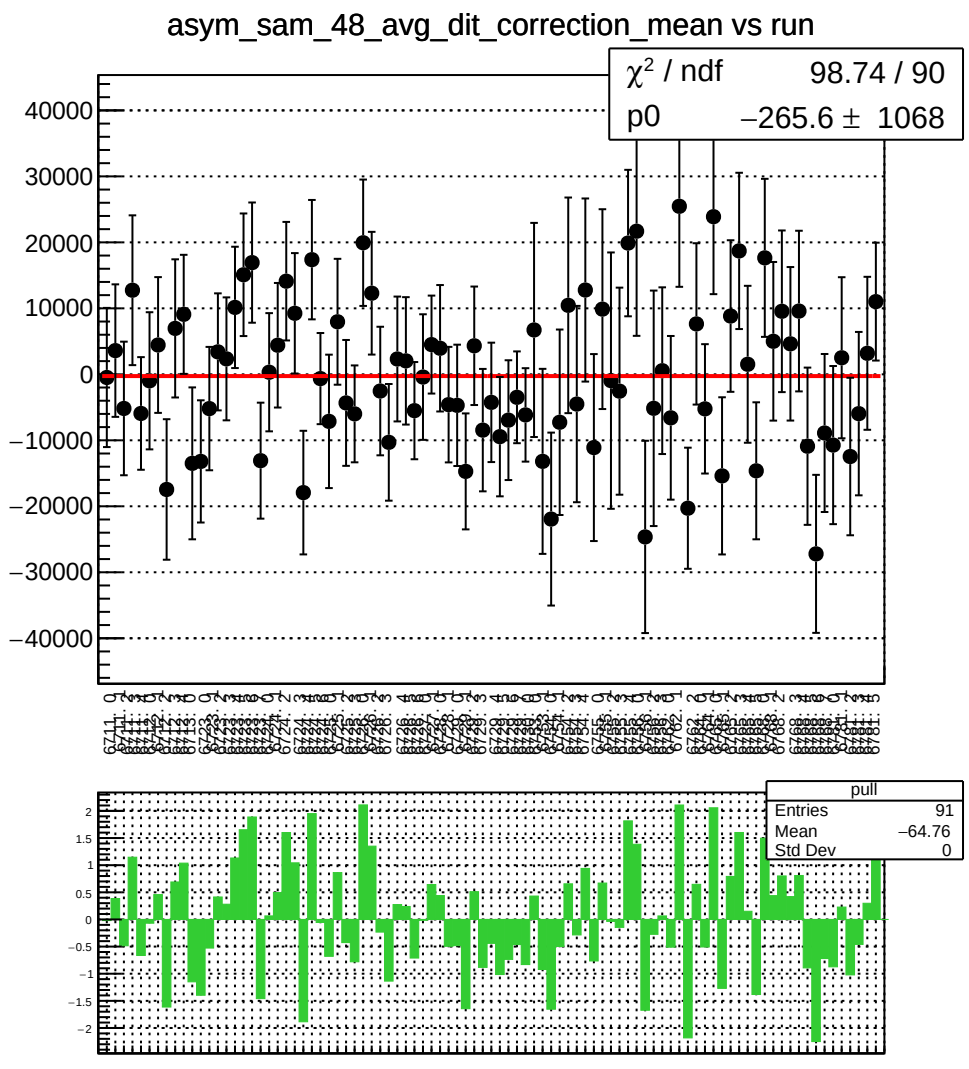

pull1D
Entries 91
Mean 0.01126
Std Dev 1.053

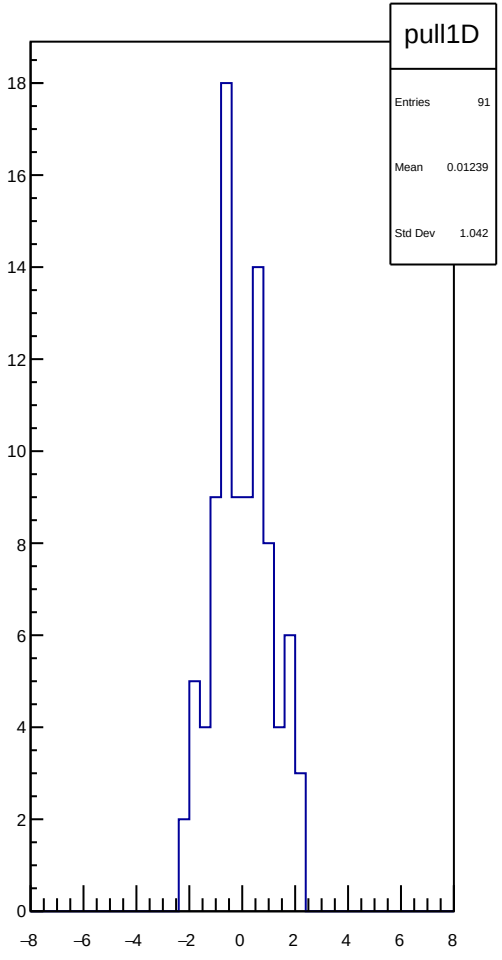

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.82e+04 / 90
p0 966.6 ± 0.7253
1600
1500
1400
1300
1200
1100
1000
900
800

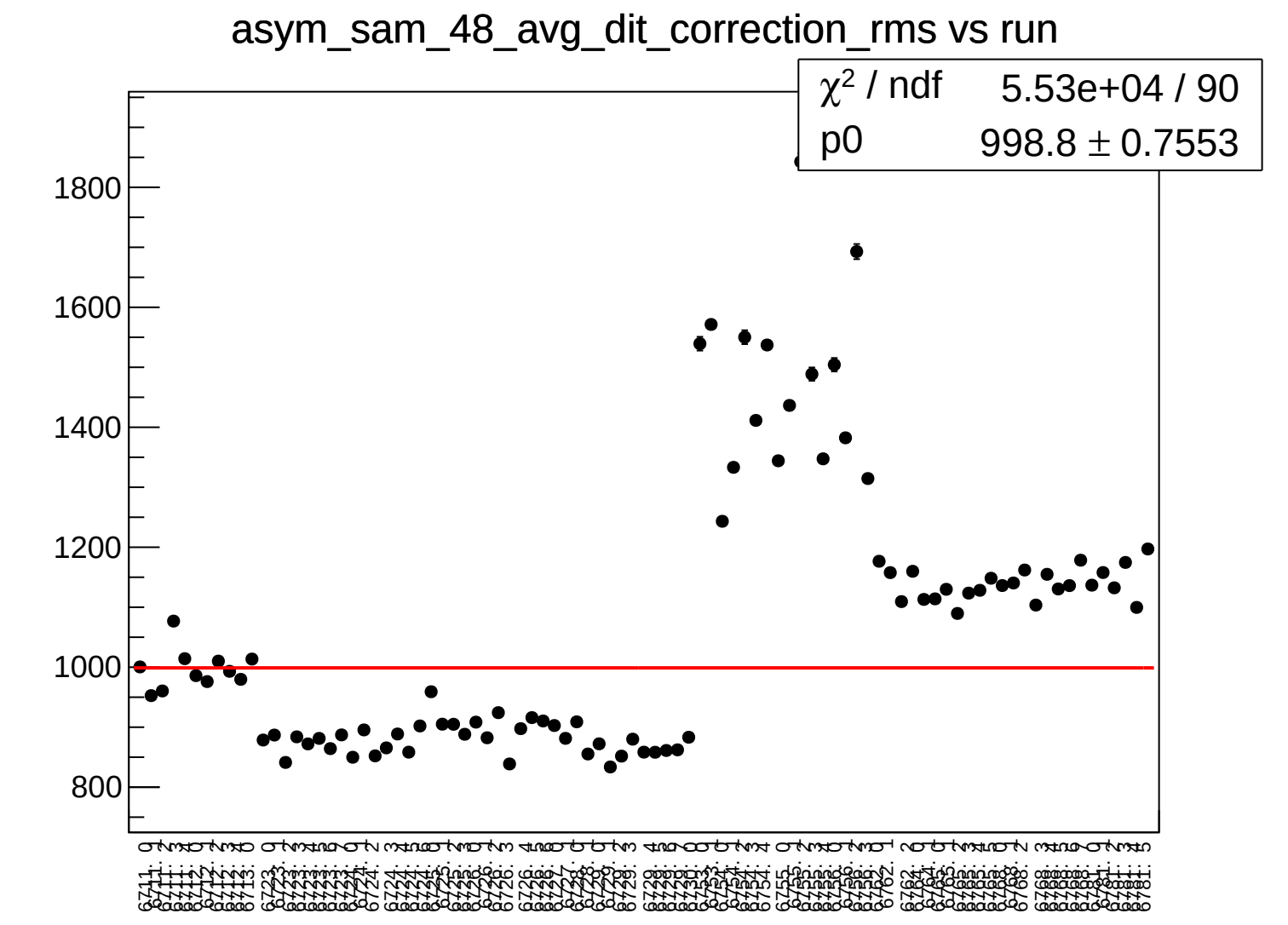

dit_asym_sam_48_avg_mean vs run
χ² / ndf 100.3 / 90
p0 −215.4 ± 170.4
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 48.95
Std Dev 50.98
3
2
1
0
−1
−2
−3

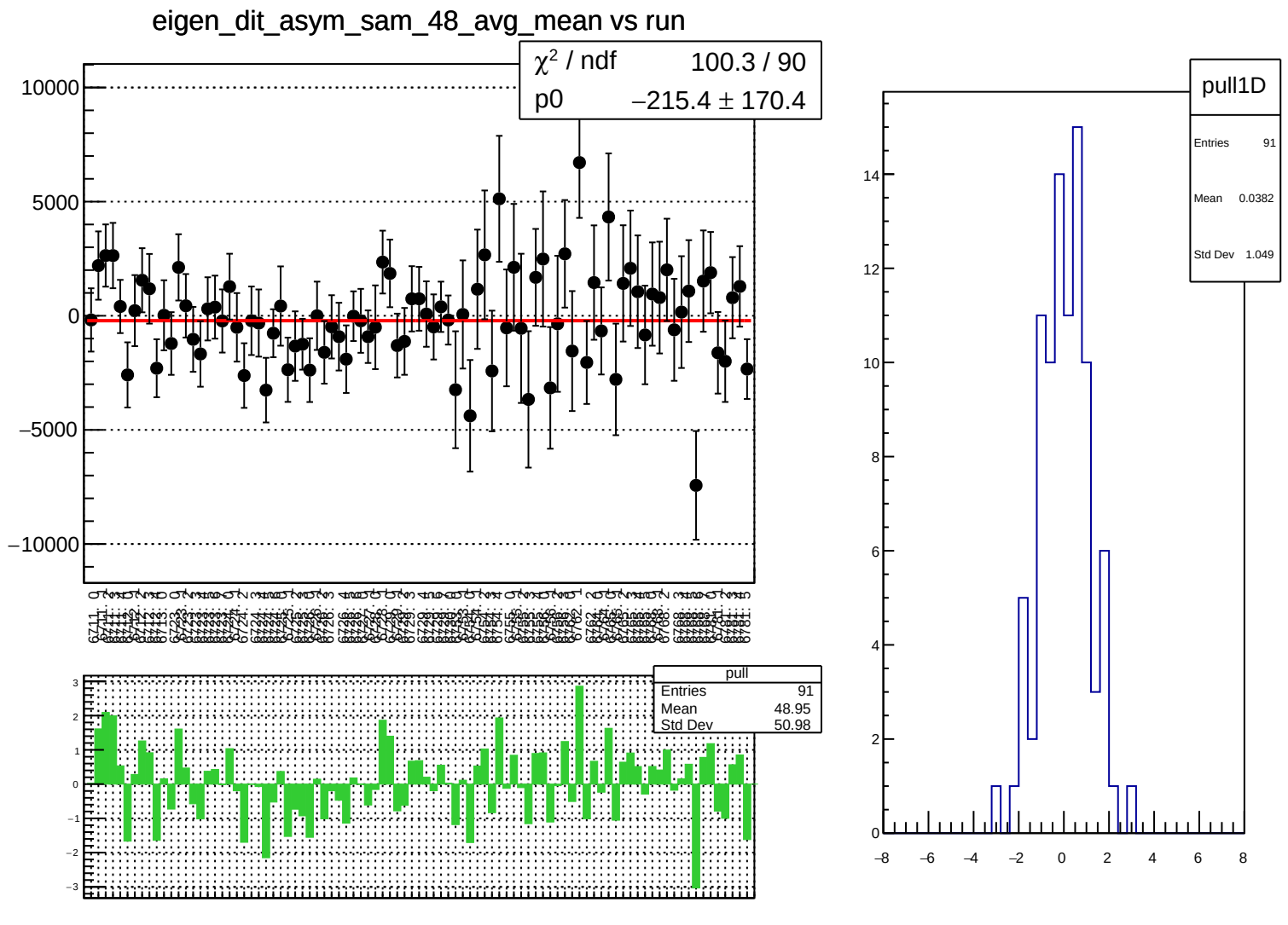

pull1D
Entries 91
Mean 0.0382
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

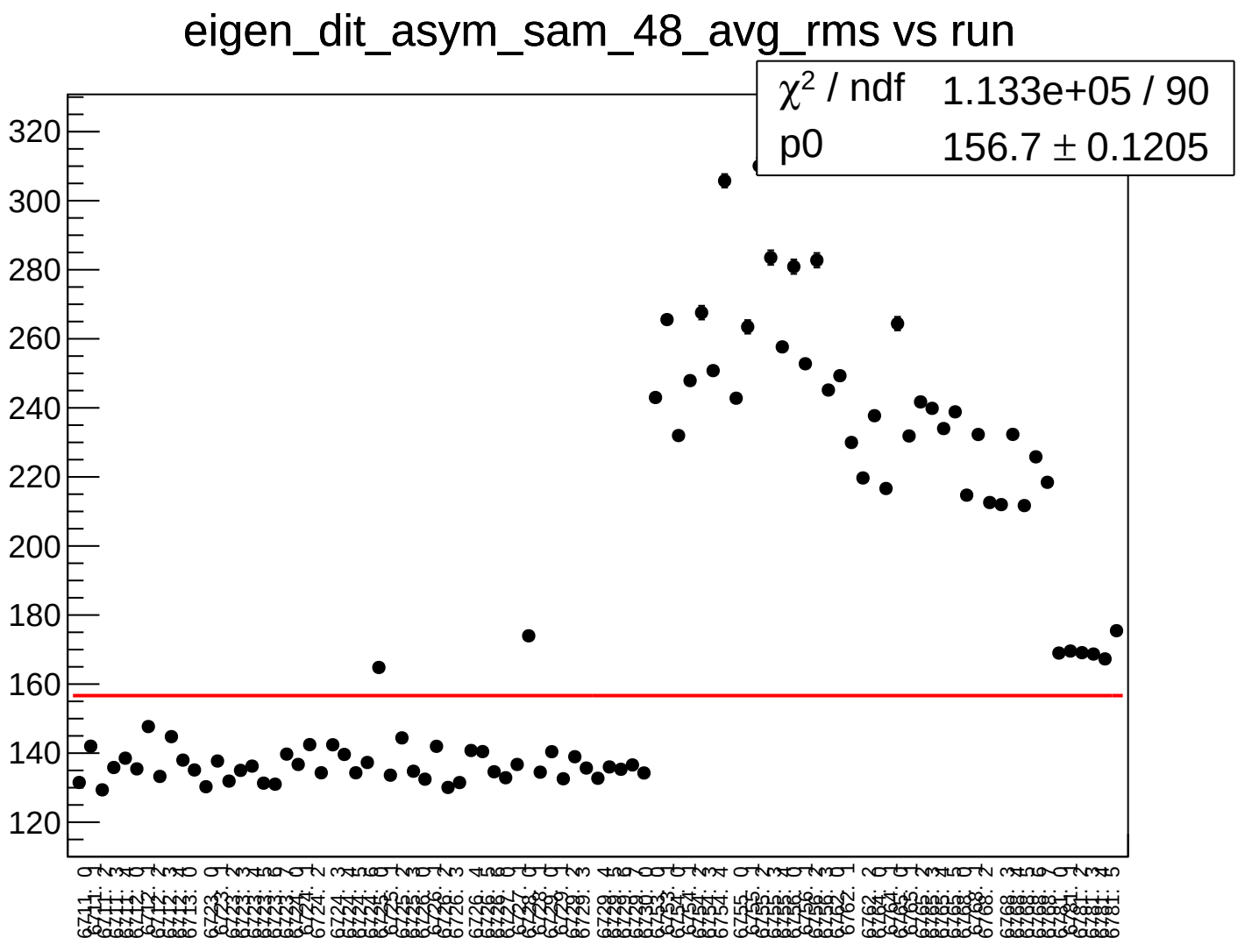

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.133e+05 / 90
p0 156.7 ± 0.1205
320
300
280
260
240
220
200
180
160
140
120

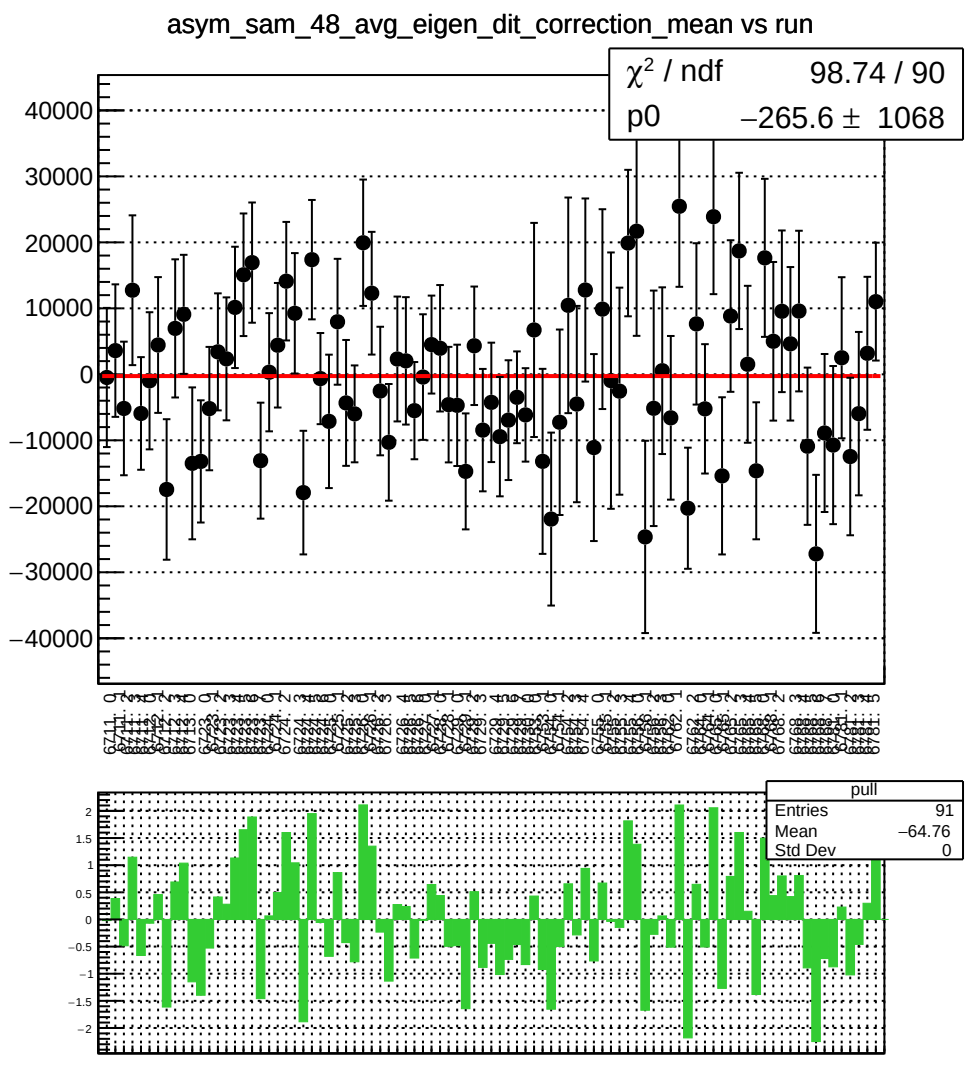

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 98.74 / 90
p0 −265.6 ± 1068
pull
Entries 91
Mean −64.76
Std Dev 0

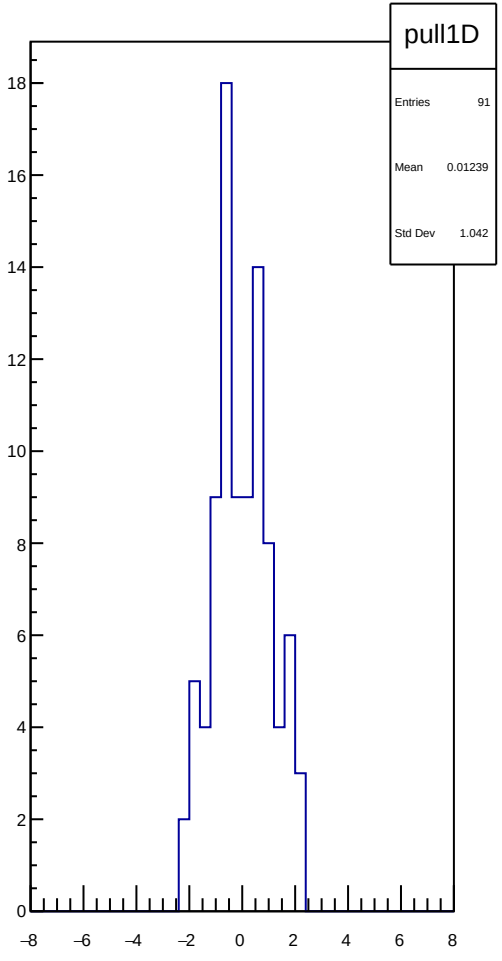

pull1D
Entries 91
Mean 0.01239
Std Dev 1.042

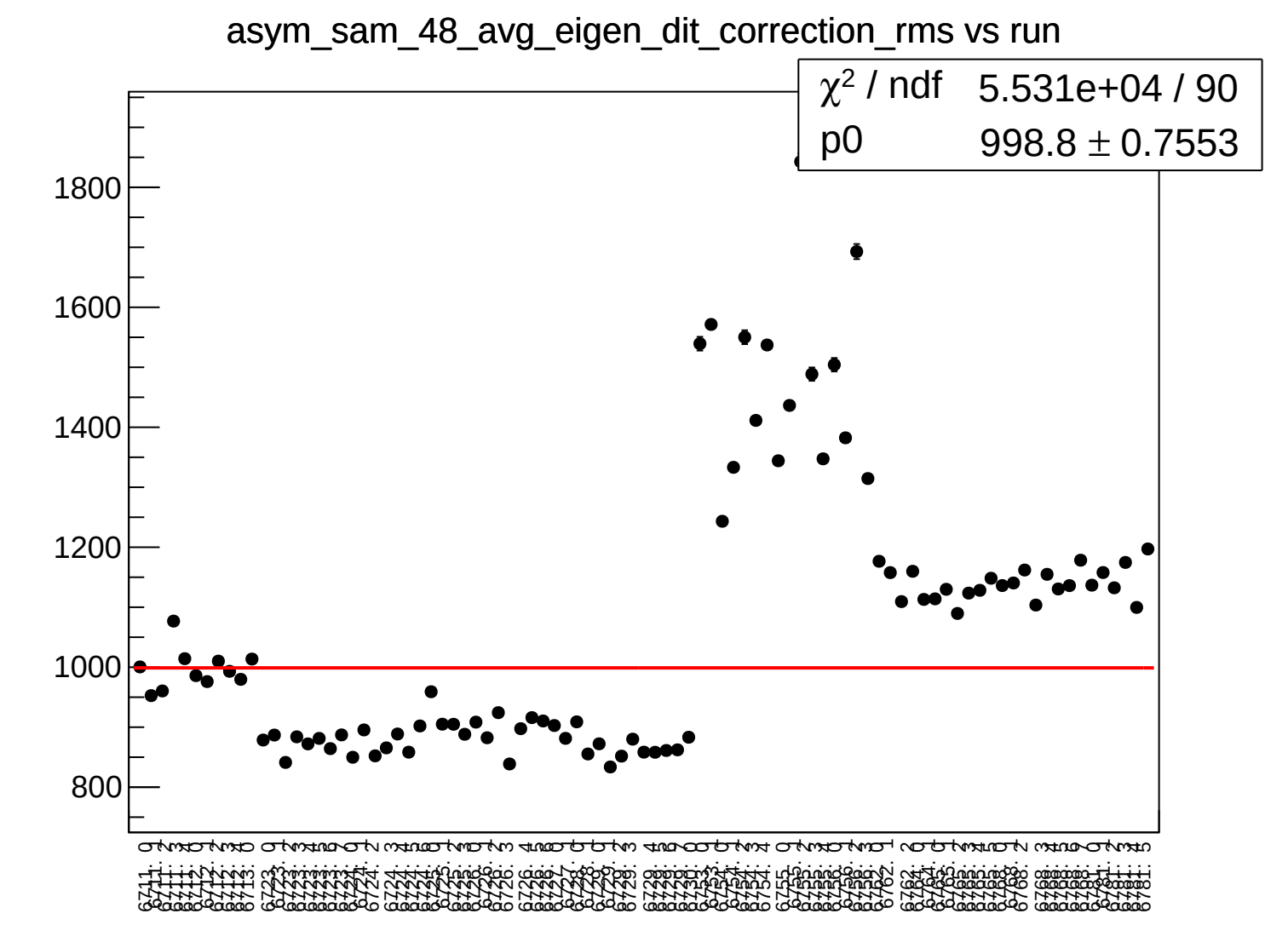

asym_sam_48_avg_dit_correction_rms vs run
χ^2 / ndf 5.53e+04 / 90
p0 998.8 ± 0.7553
1800
1600
1400
1200
1000
800

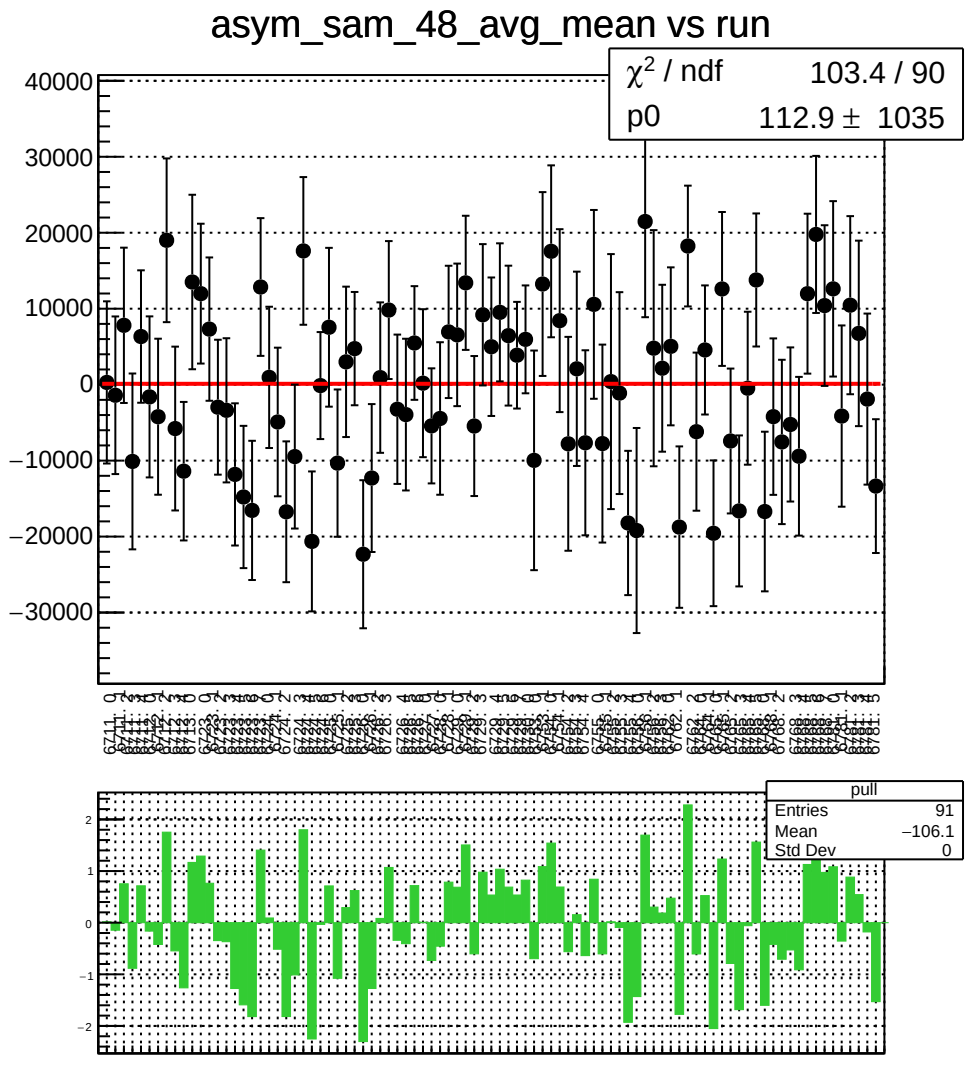

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 100.3 / 90
p0 −215.4 ± 170.4
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 48.95
Std Dev 50.98
pull1D
Entries 91
Mean 0.0382
Std Dev 1.049

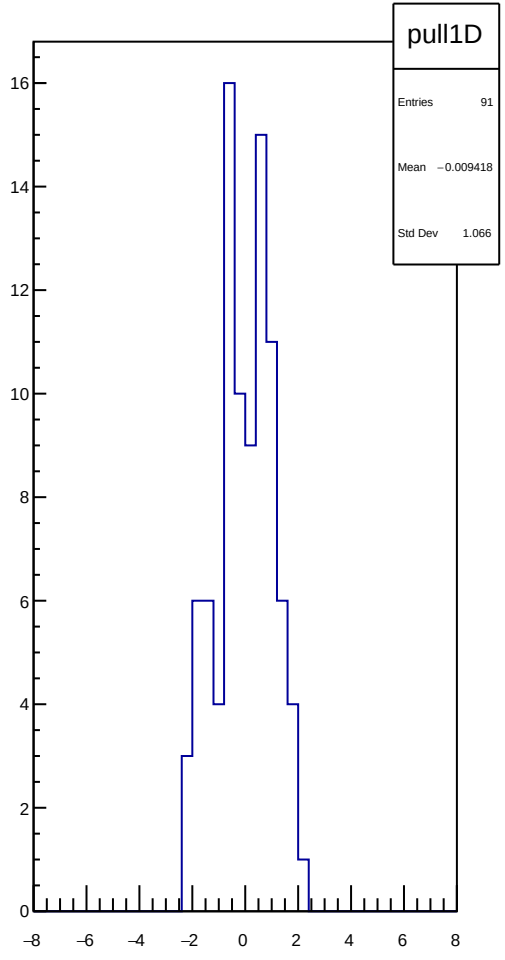

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.133e+05 / 90
p0 156.7 ± 0.1205
320
300
280
260
240
220
200
180
160
140
120

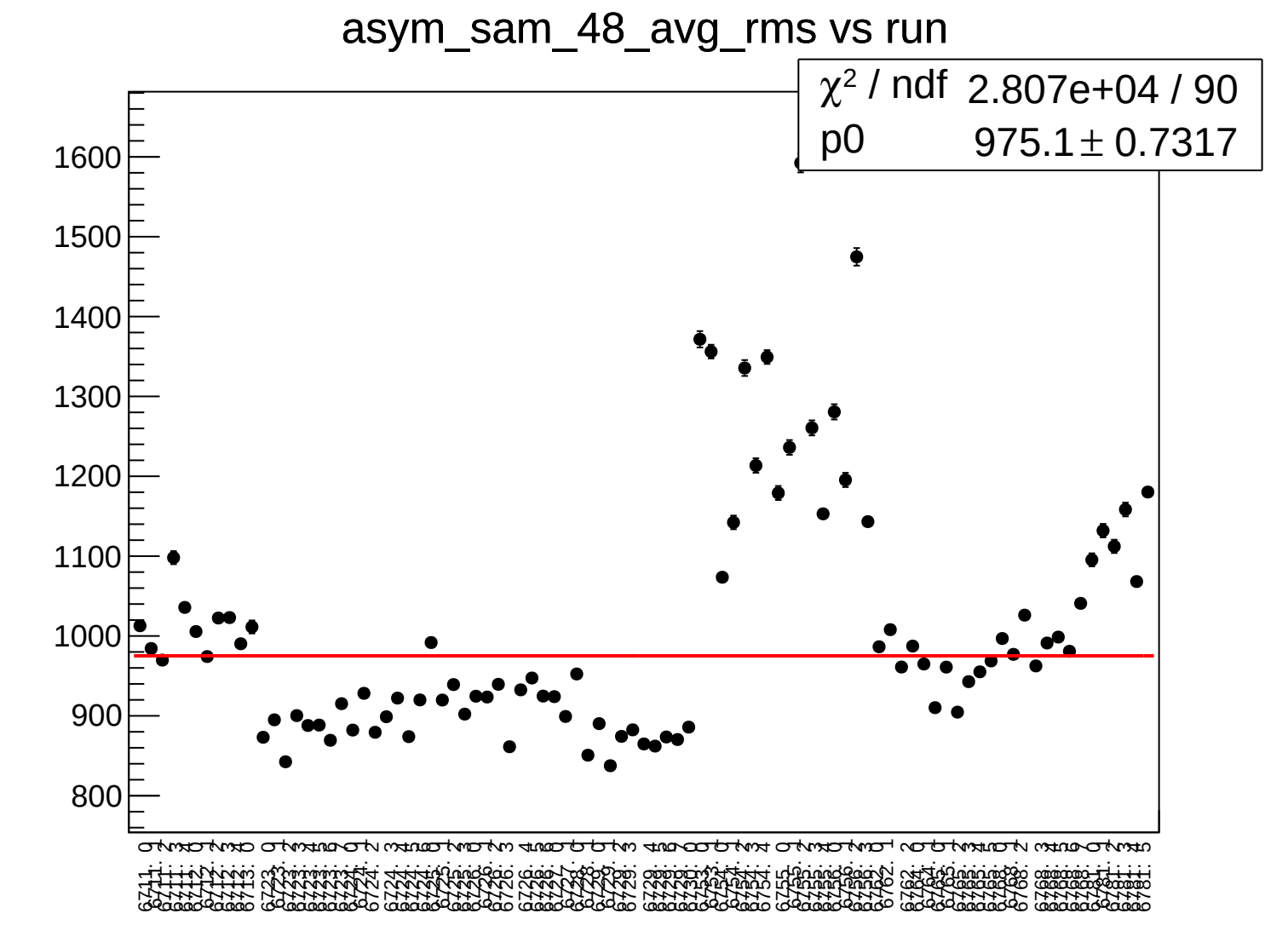

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.74 / 90
p0 −265.6 ± 1068
pull
Entries 91
Mean −64.76
Std Dev 0

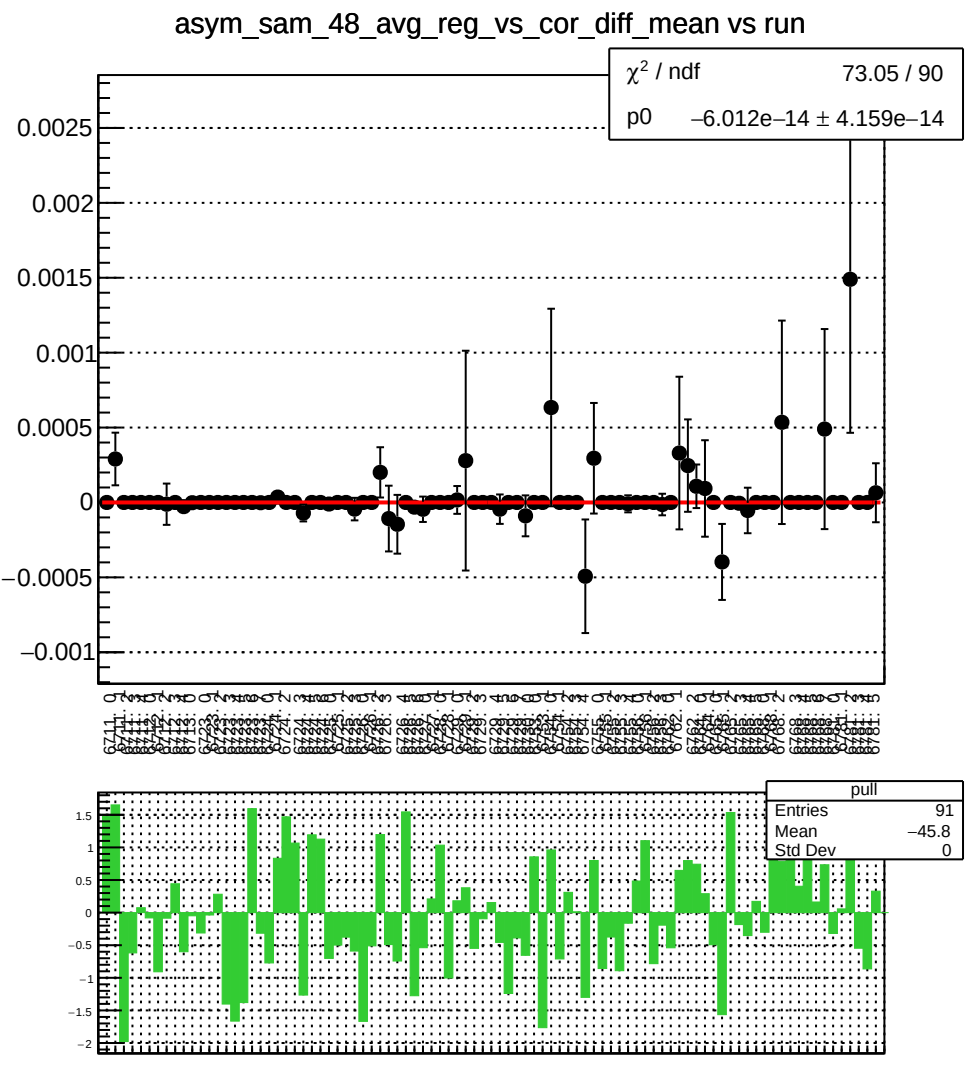

pull1D
Entries 91
Mean 0.01239
Std Dev 1.042

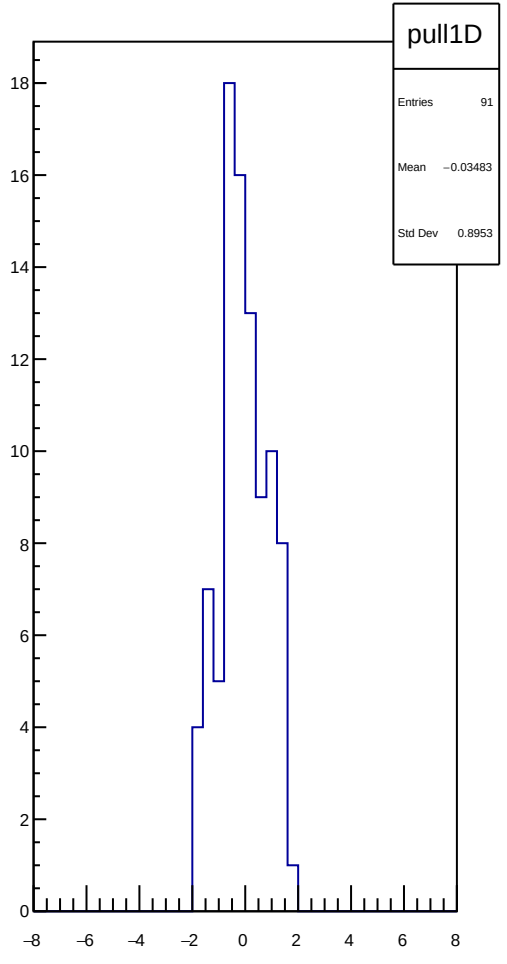

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 5.531e+04 / 90
p0 998.8 ± 0.7553
1800
1600
1400
1200
1000
800

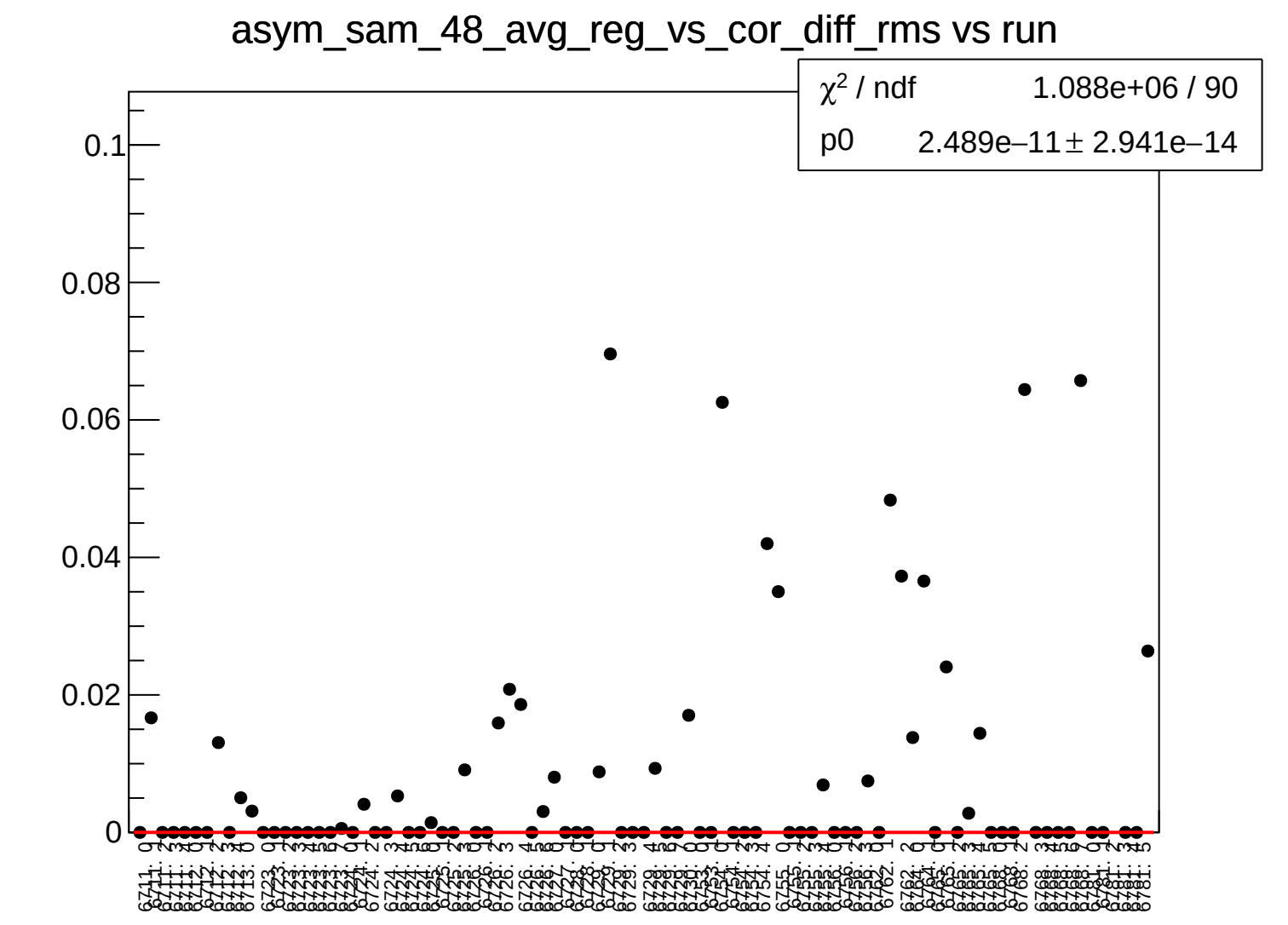

asym_sam_48_avg_mean vs run
χ^2 / ndf 103.4 / 90
p0 112.9 ± 1035
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −106.1
Std Dev 0
2
1
0
−1
−2

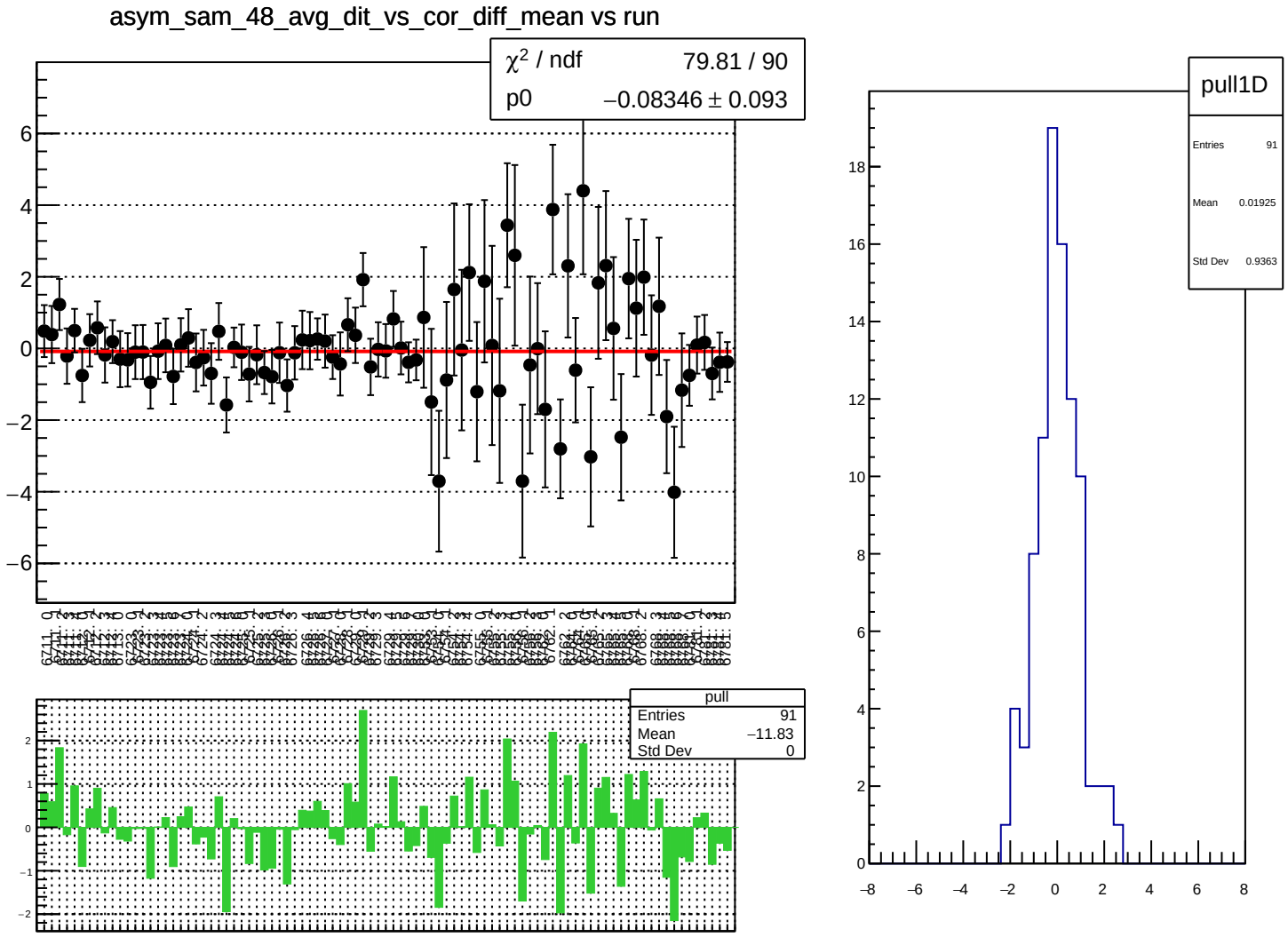

pull1D
Entries 91
Mean −0.009418
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

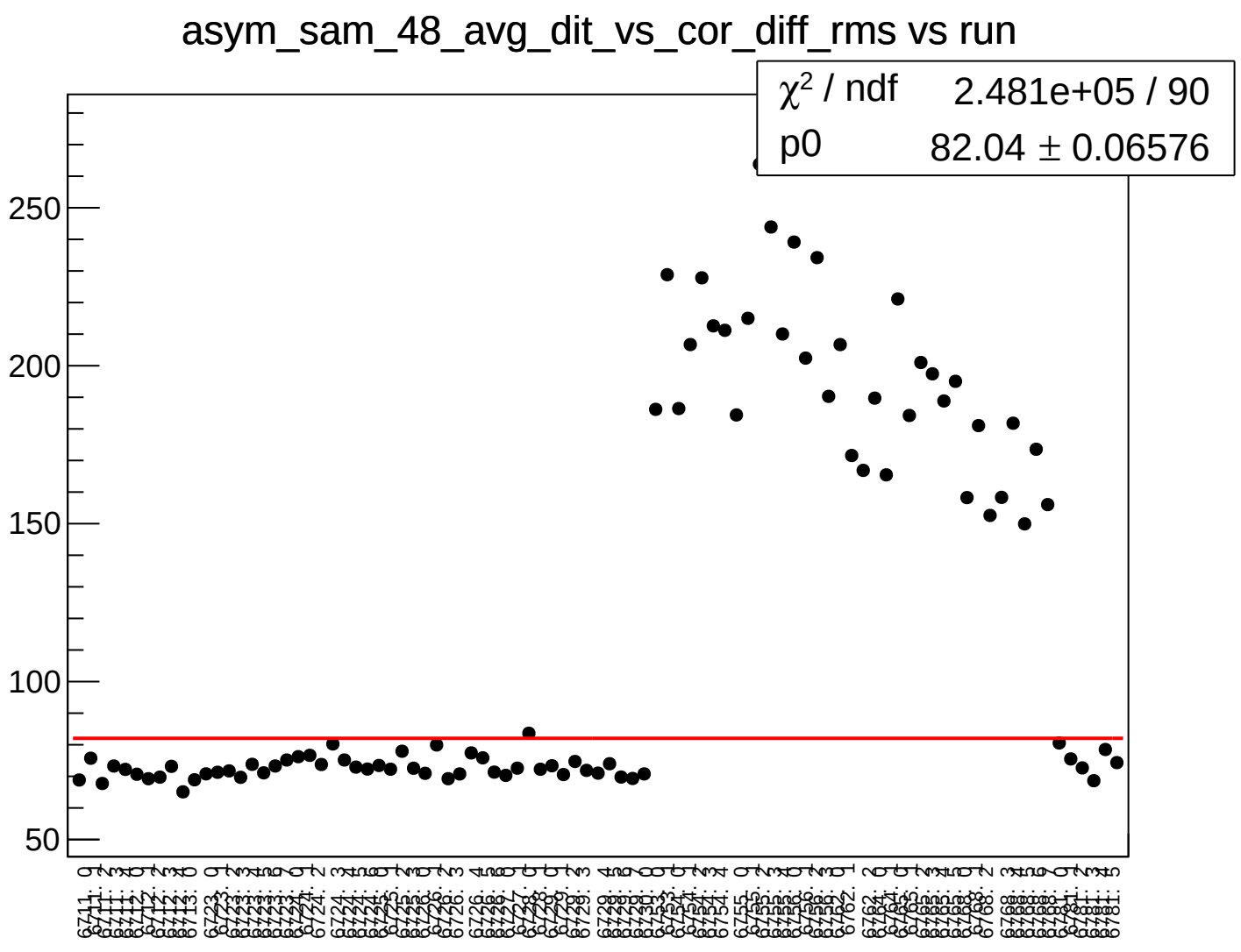

asym_sam_48_avg_rms vs run
χ² / ndf 2.807e+04 / 90
p0 975.1 ± 0.7317
1600
1500
1400
1300
1200
1100
1000
900
800

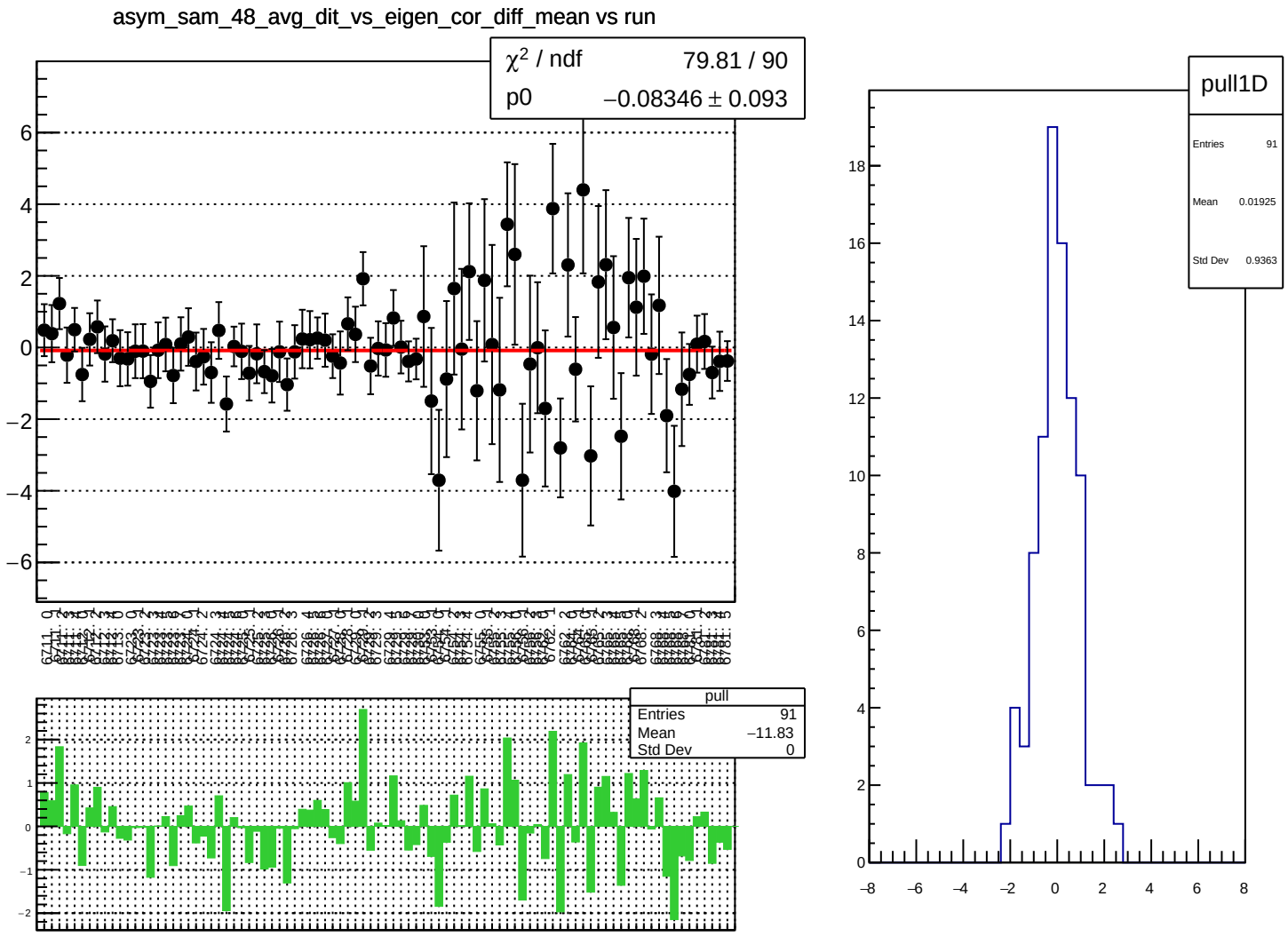

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.05 / 90
p0 −6.012e−14 ± 4.159e−14
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean −45.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

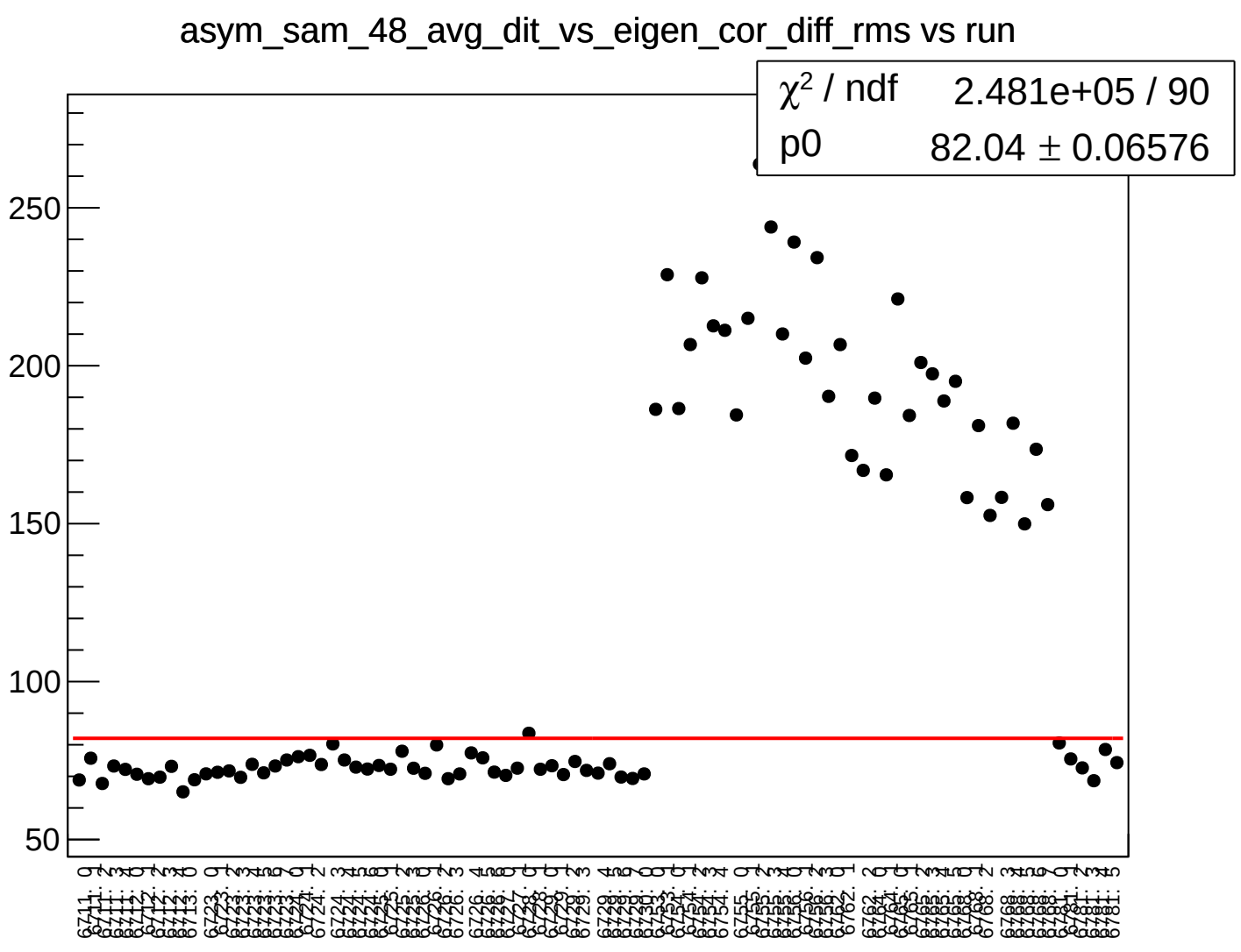

pull1D
Entries 91
Mean −0.03483
Std Dev 0.8953
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

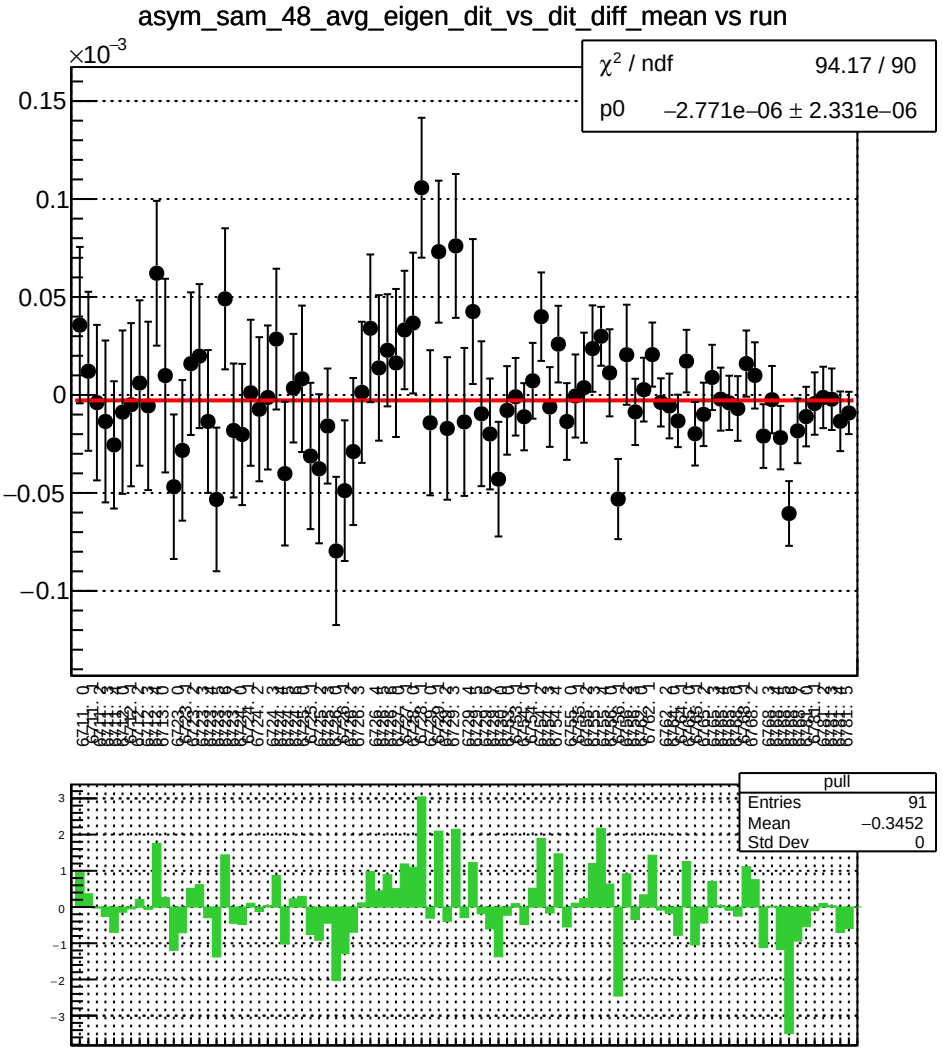

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.088e+06 / 90
p0 2.489e−11 ± 2.941e−14
0.1
0.08
0.06
0.04
0.02
0

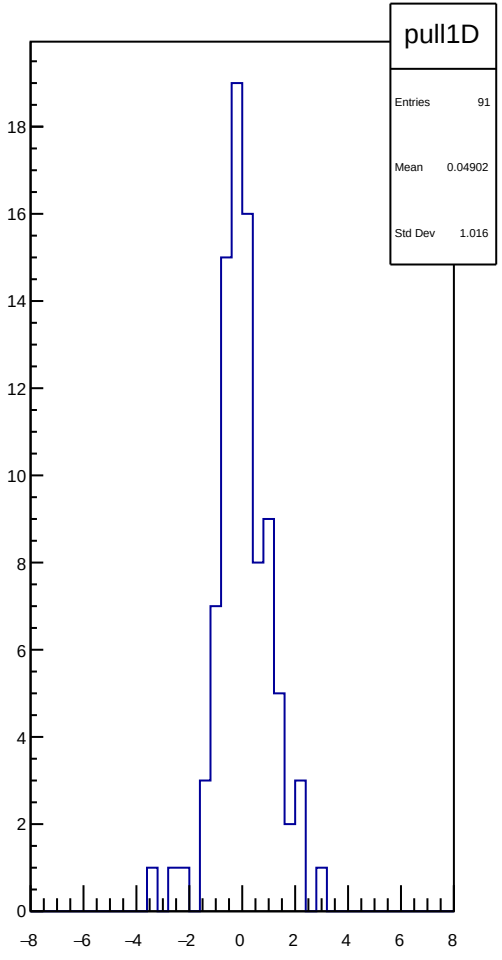

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.81 / 90
p0 −0.08346 ± 0.093
pull
Entries 91
Mean −11.83
Std Dev 0
pull1D
Entries 91
Mean 0.01925
Std Dev 0.9363

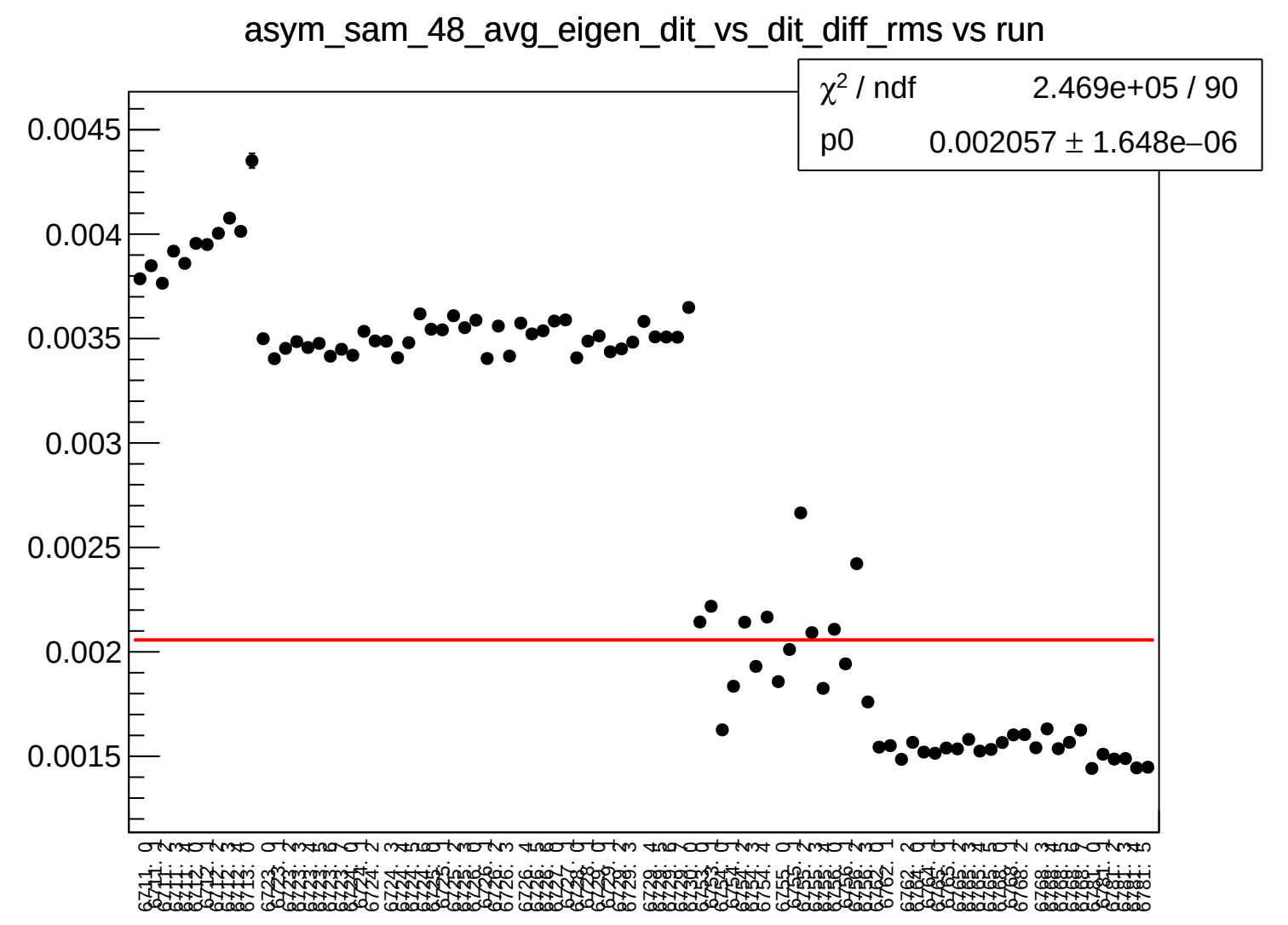

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.481e+05 / 90
p0 82.04 ± 0.06576
250
200
150
100
50

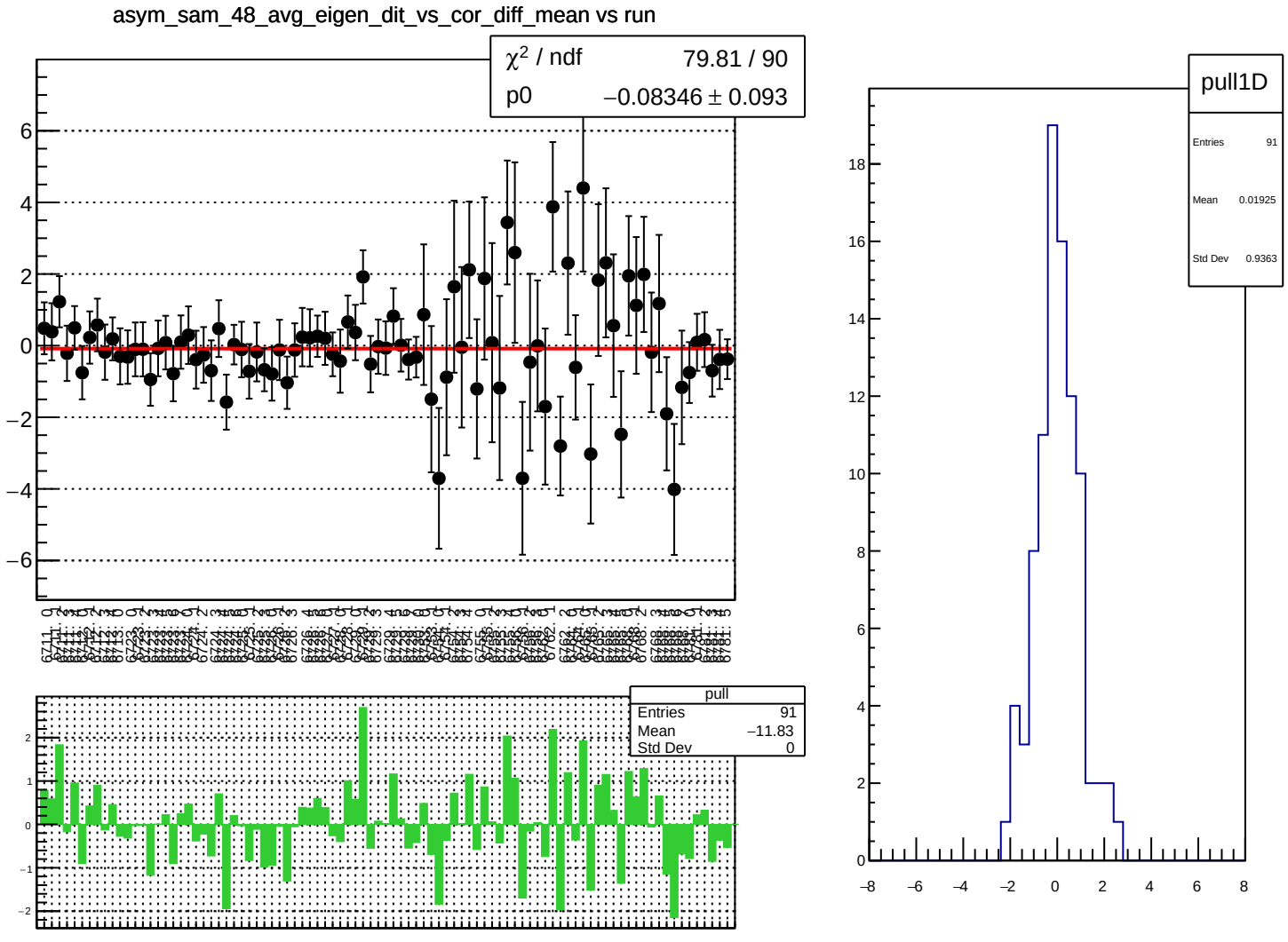

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.81 / 90
p0 −0.08346 ± 0.093
pull
Entries 91
Mean −11.83
Std Dev 0
pull1D
Entries 91
Mean 0.01925
Std Dev 0.9363

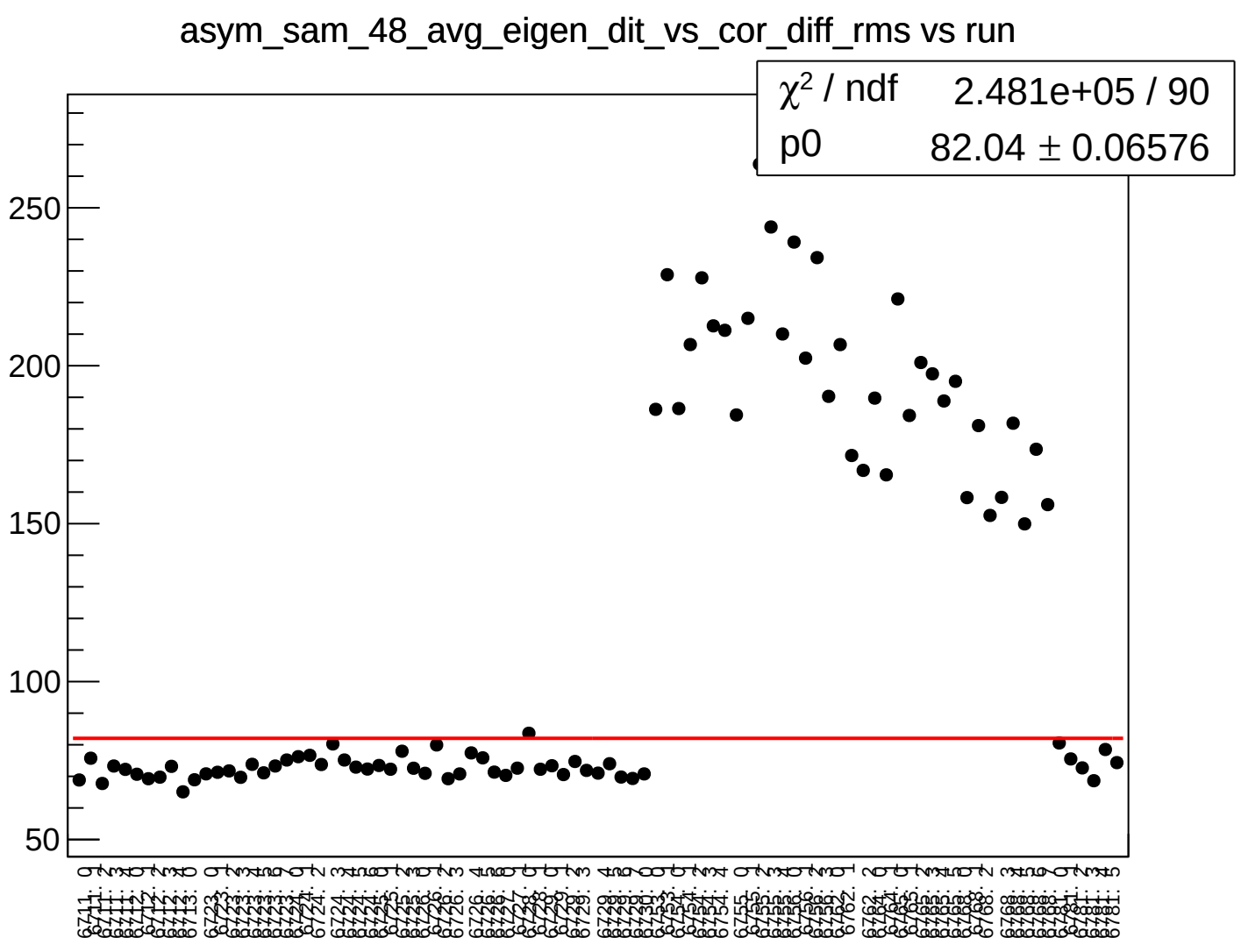

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.481e+05 / 90
p0 82.04 ± 0.06576
250
200
150
100
50

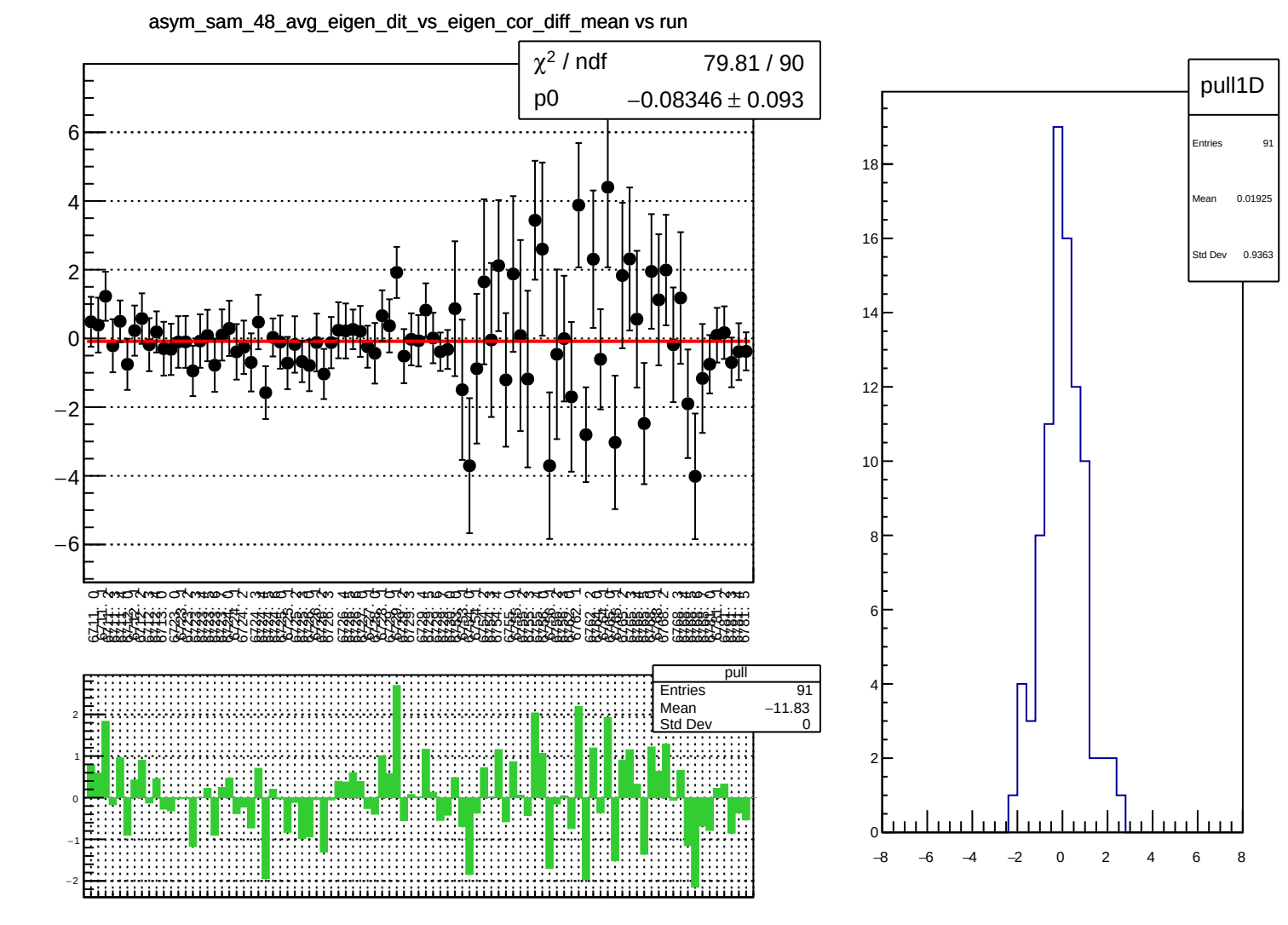

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.17 / 90
p0 −2.771e−06 ± 2.331e−06
pull
Entries 91
Mean −0.3452
Std Dev 0

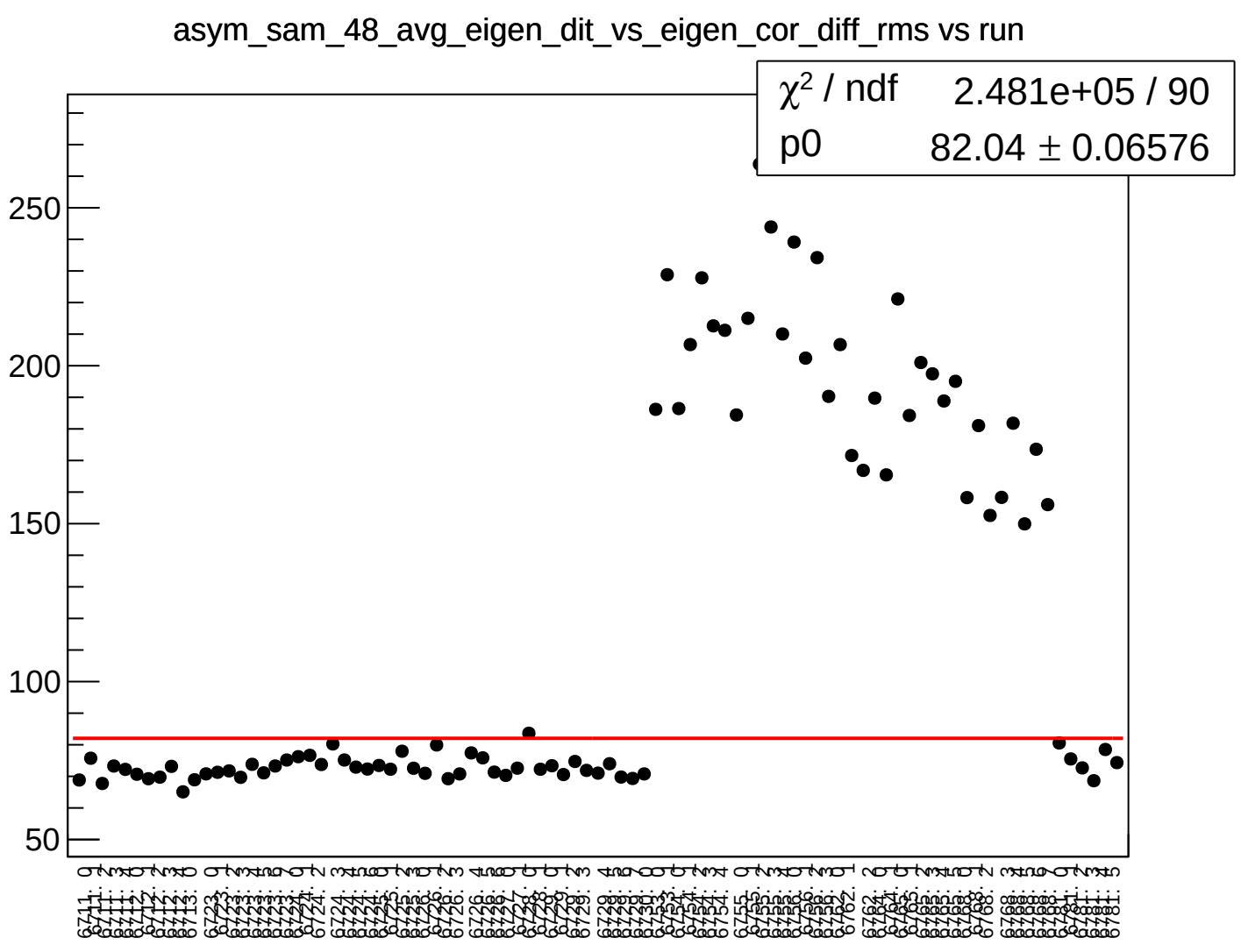

pull1D
Entries 91
Mean 0.04902
Std Dev 1.016

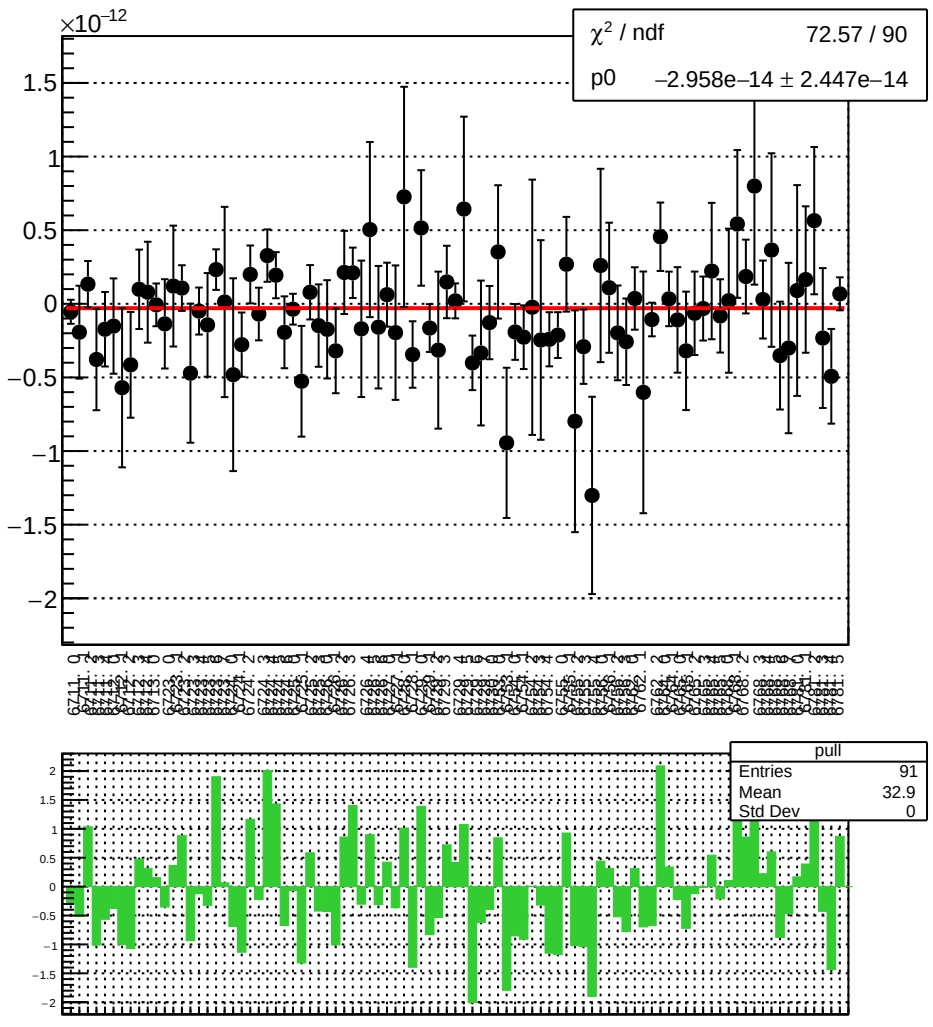

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.469e+05 / 90
p0 0.002057 ± 1.648e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

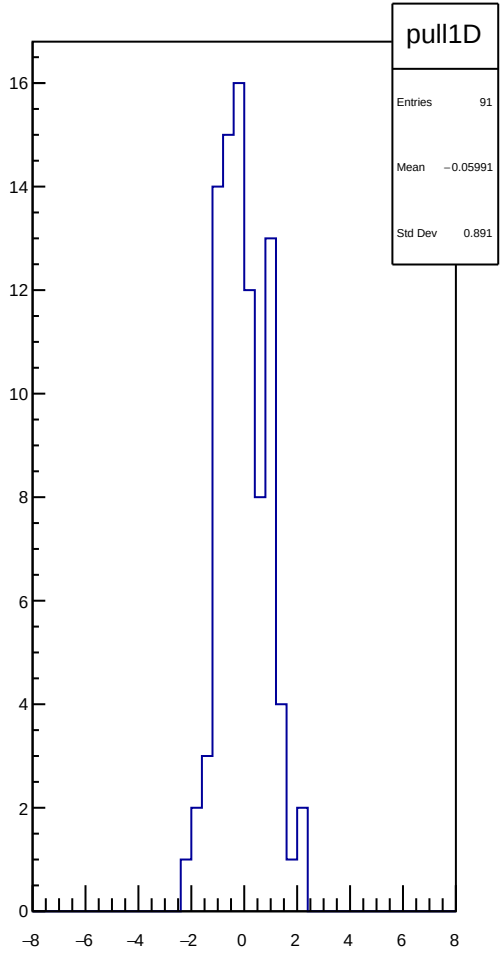

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.81 / 90
p0 −0.08346 ± 0.093
pull
Entries 91
Mean −11.83
Std Dev 0
pull1D
Entries 91
Mean 0.01925
Std Dev 0.9363

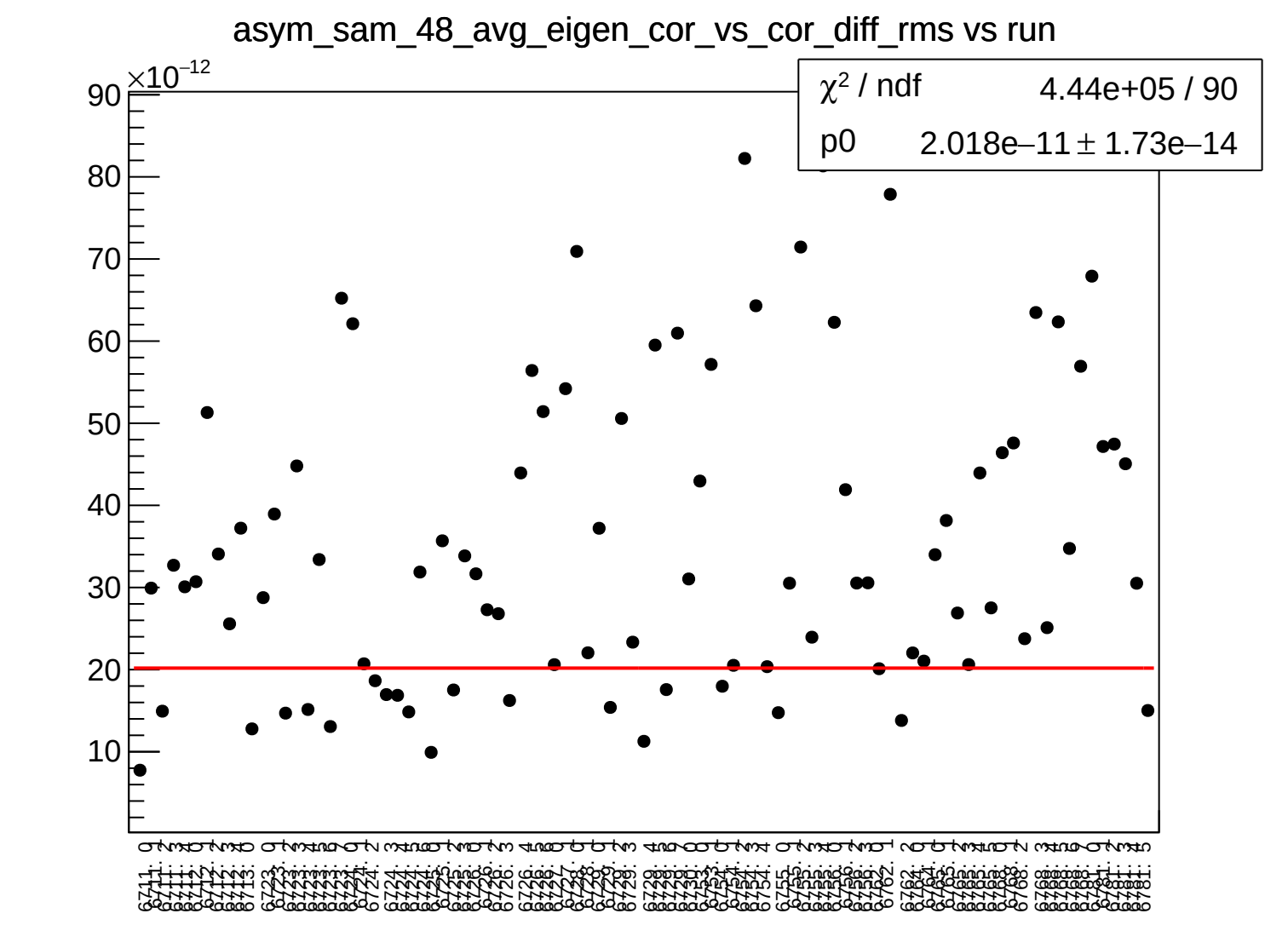

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.481e+05 / 90
p0 82.04 ± 0.06576
250
200
150
100
50

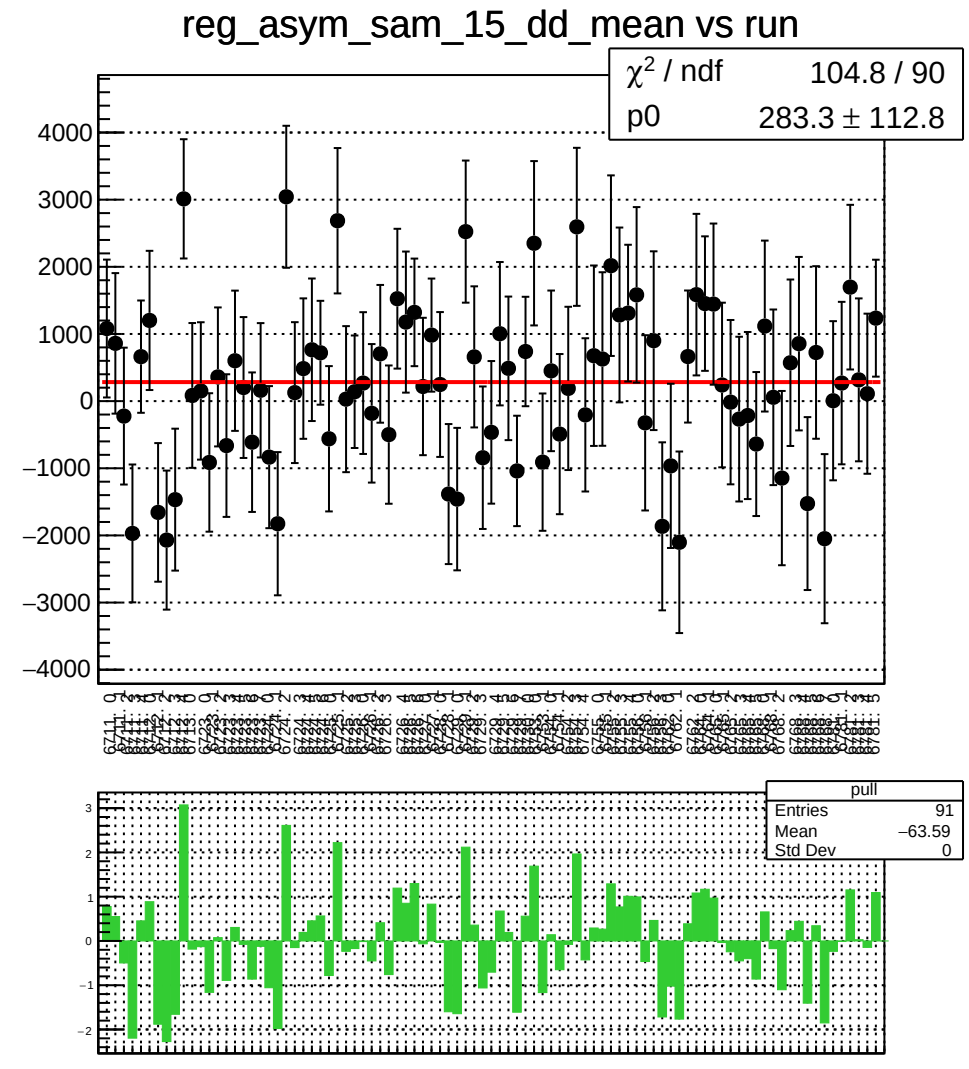

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.81 / 90
p0 −0.08346 ± 0.093
pull
Entries 91
Mean −11.83
Std Dev 0
pull1D
Entries 91
Mean 0.01925
Std Dev 0.9363

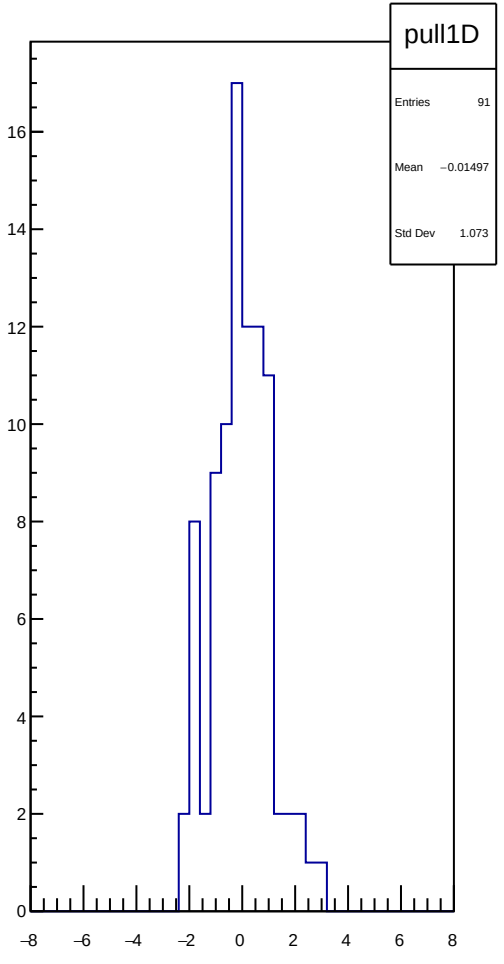

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.481e+05 / 90
p0 82.04 ± 0.06576
250
200
150
100
50

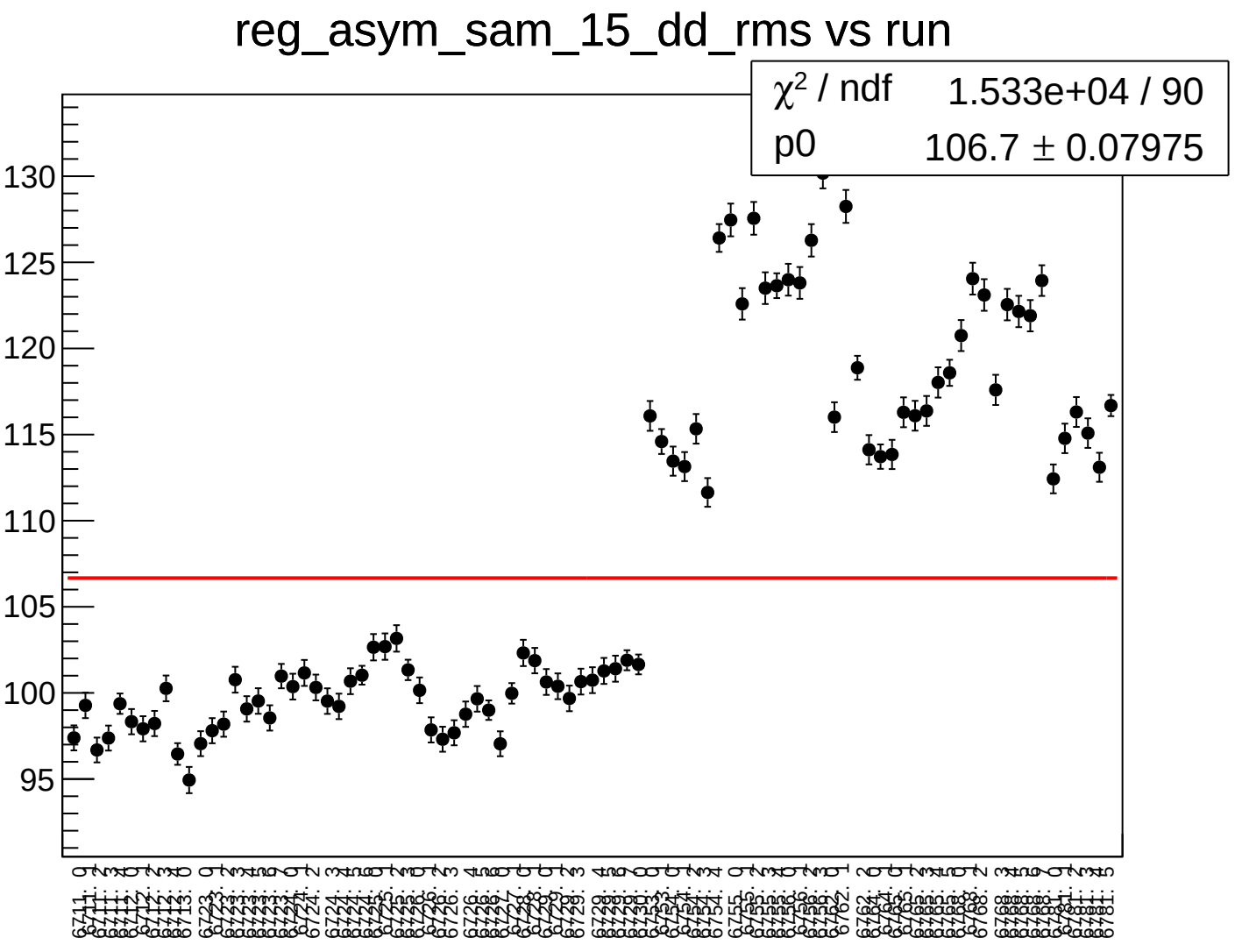

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.57 / 90
p0 −2.958e−14 ± 2.447e−14
pull
Entries 91
Mean 32.9
Std Dev 0

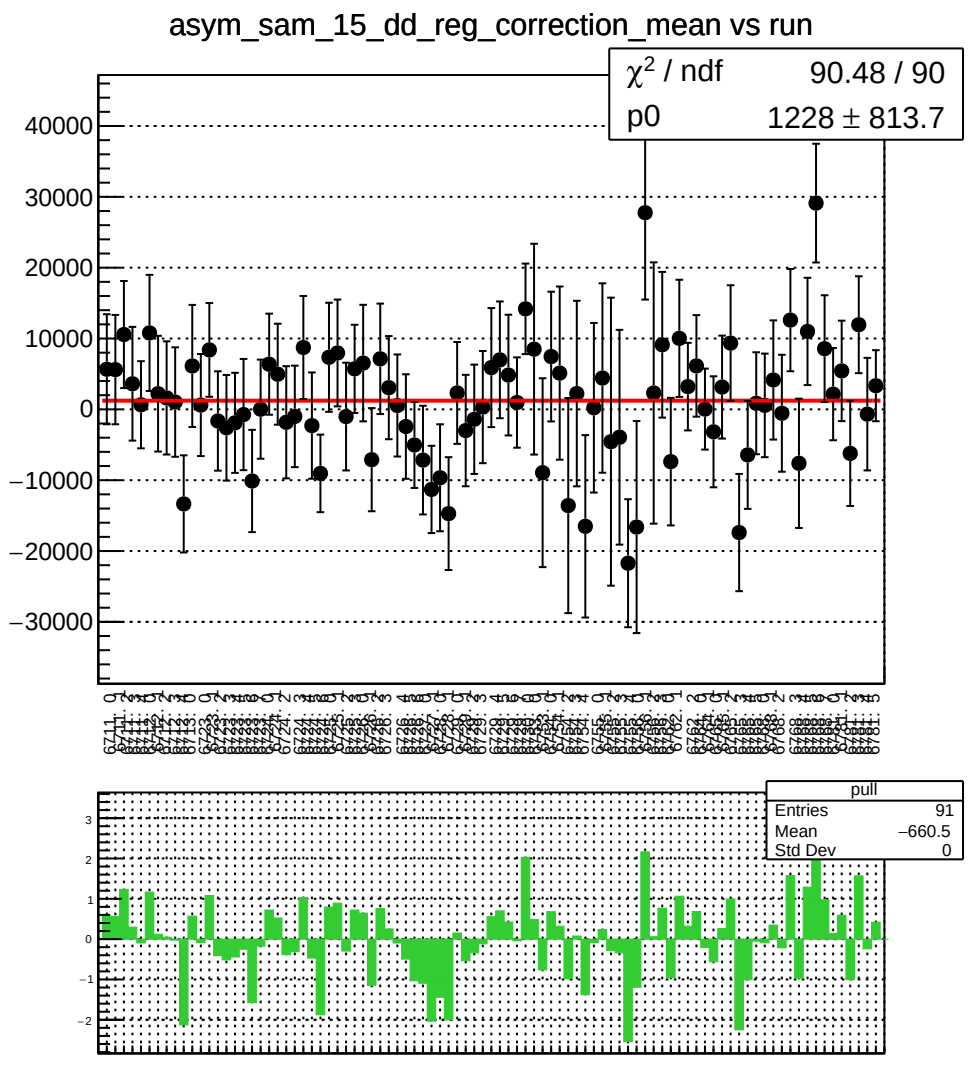

pull1D
Entries 91
Mean −0.05991
Std Dev 0.891

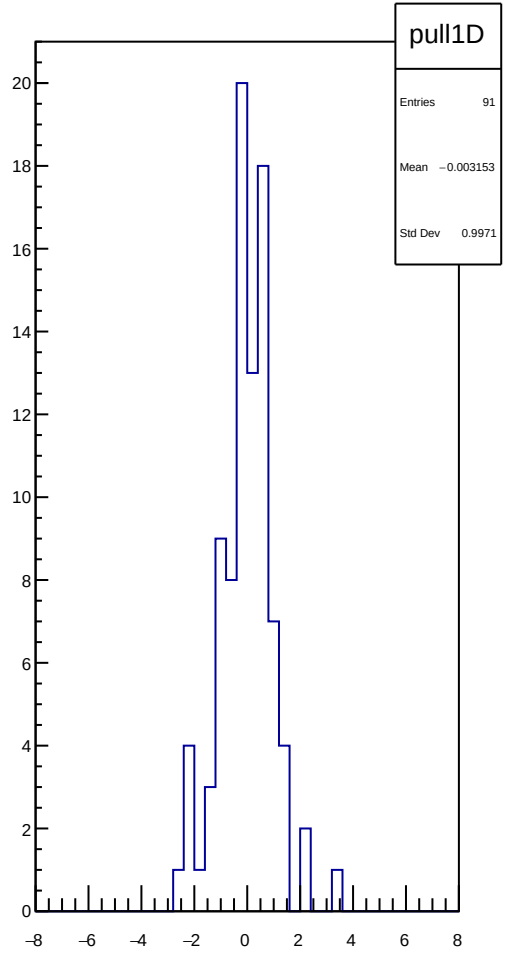

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
χ^2 / ndf 4.44e+05 / 90
p0 2.018e−11 ± 1.73e−14
×10⁻¹²
90
80
70
60
50
40
30
20
10

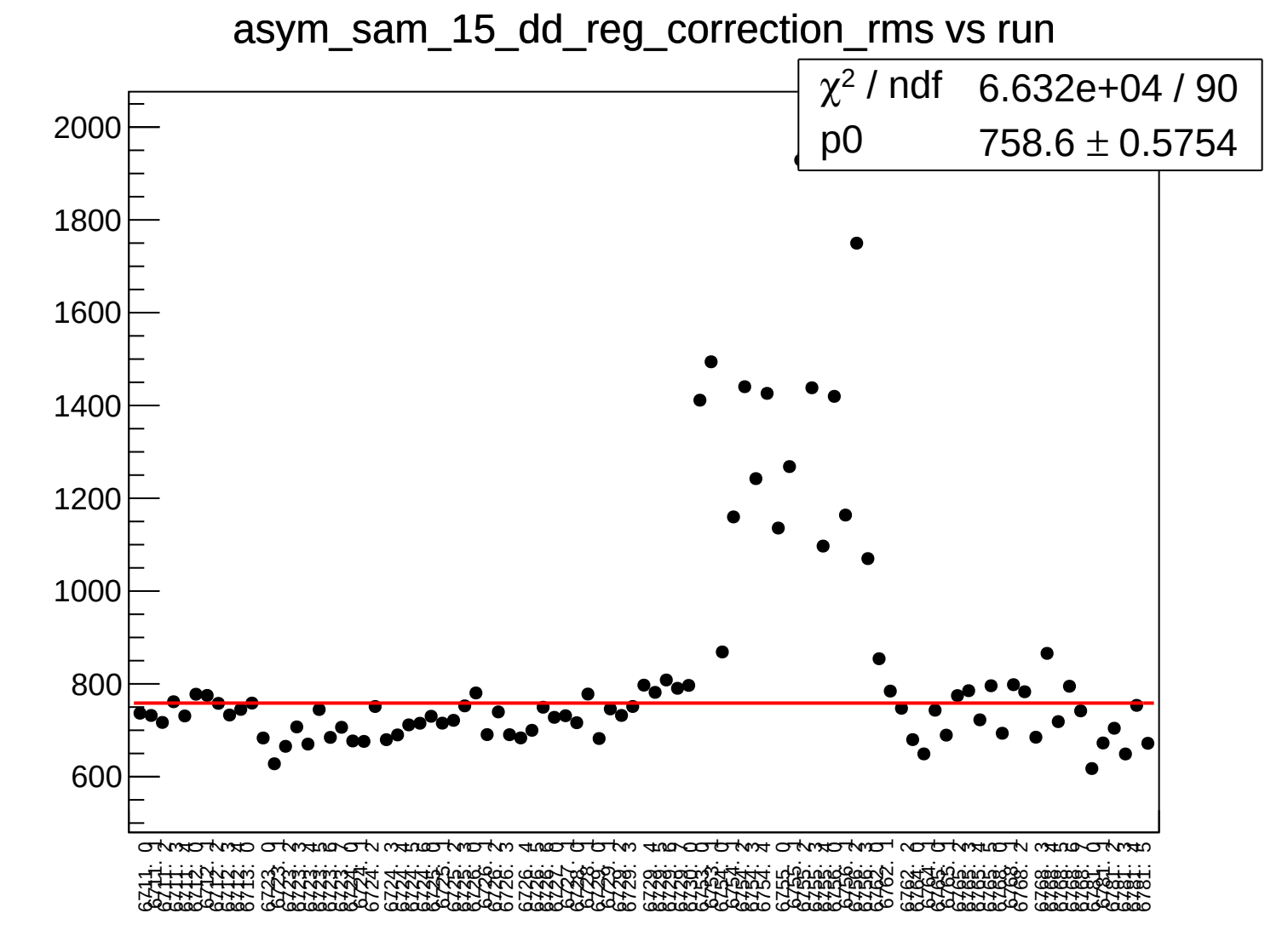

reg_asym_sam_15_dd_mean vs run
χ^2 / ndf 104.8 / 90
p0 283.3 ± 112.8
pull
Entries 91
Mean −63.59
Std Dev 0

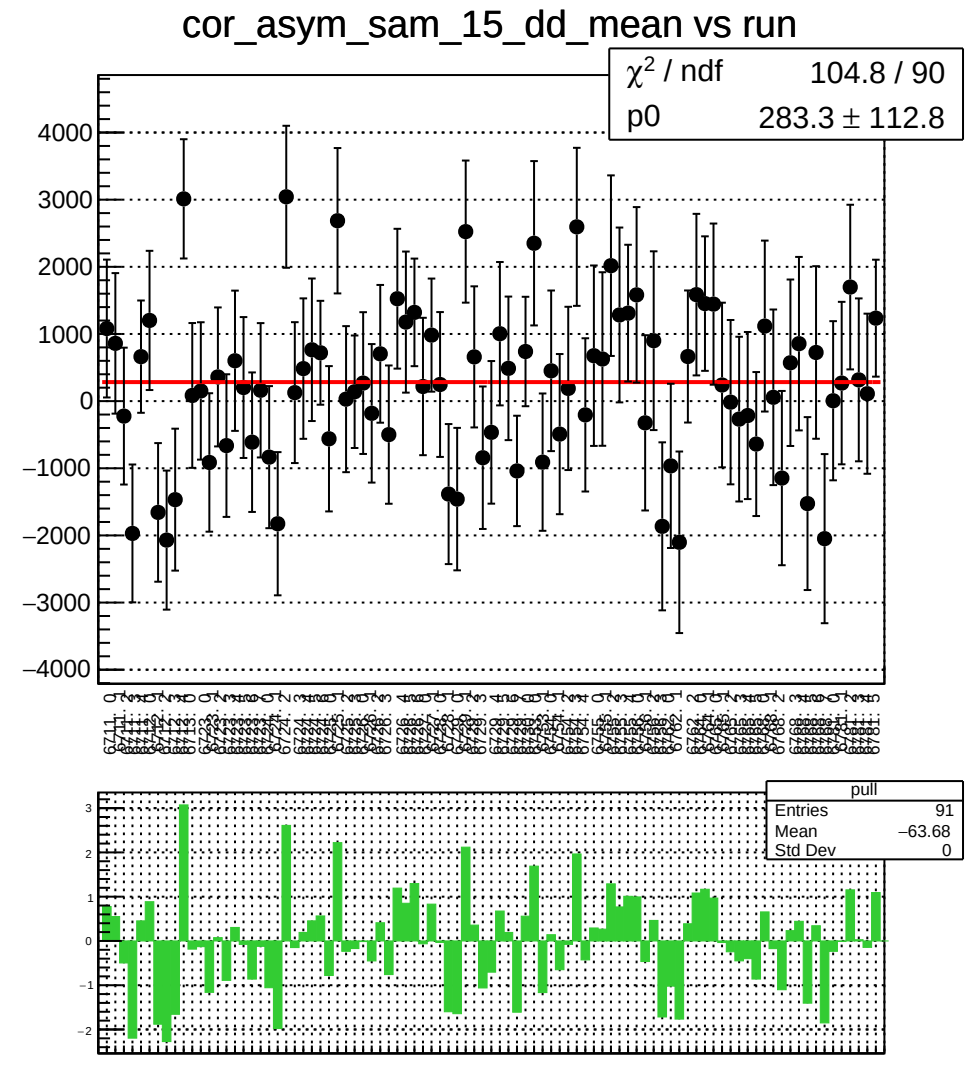

pull1D
Entries 91
Mean −0.01497
Std Dev 1.073

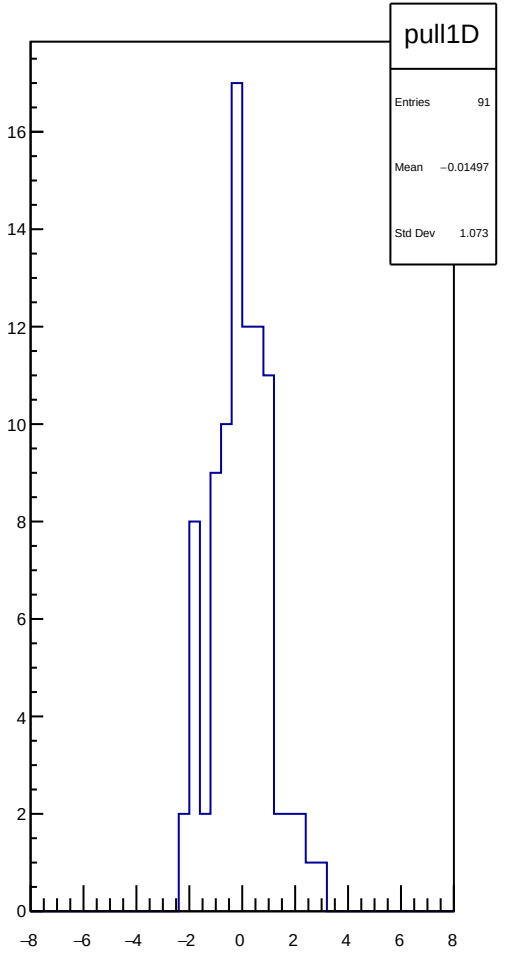

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 1.533e+04 / 90
p0 106.7 ± 0.07975
130
125
120
115
110
105
100
95

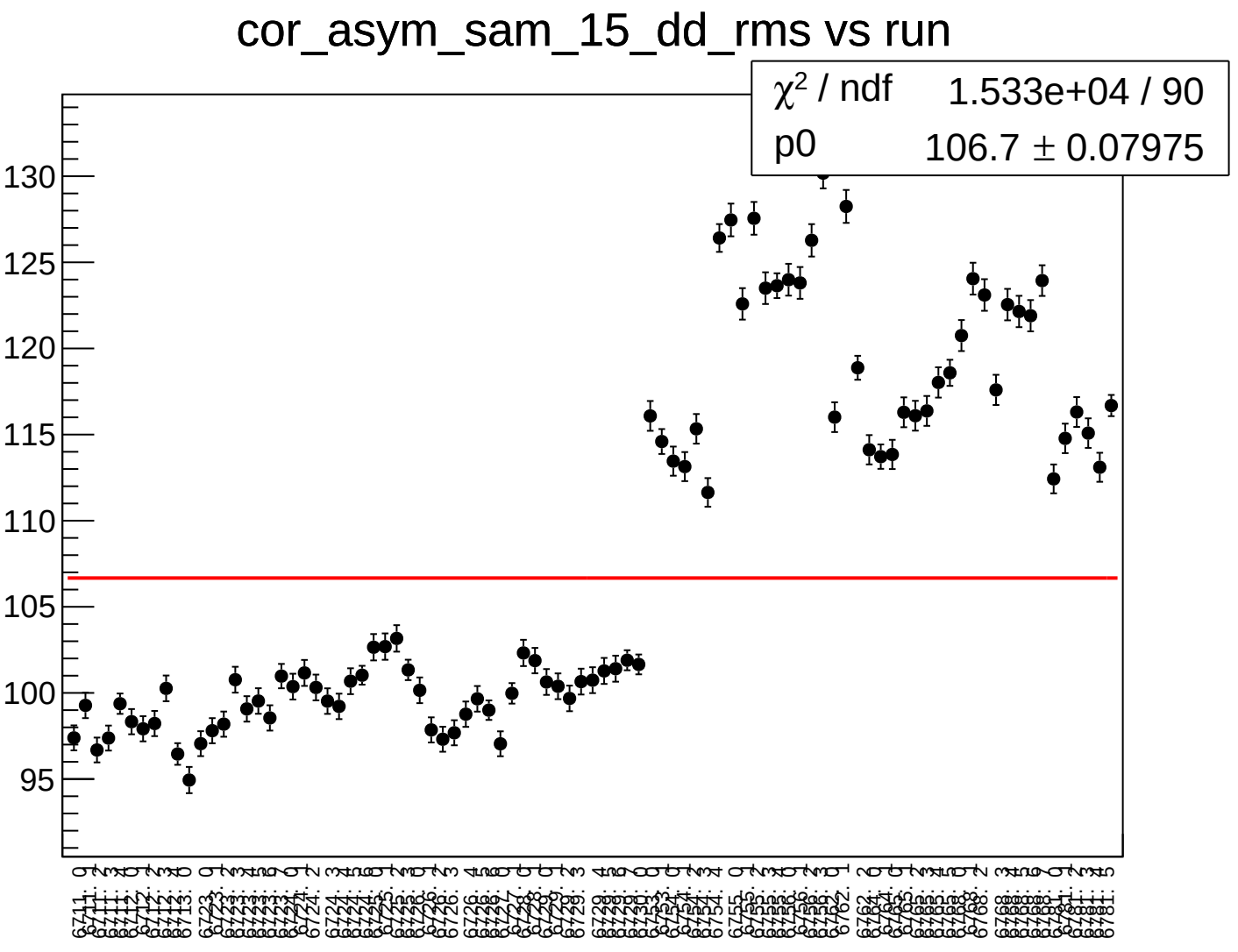

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 90.48 / 90
p0 1228 ± 813.7
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −660.5
Std Dev 0
3
2
1
0
−1
−2

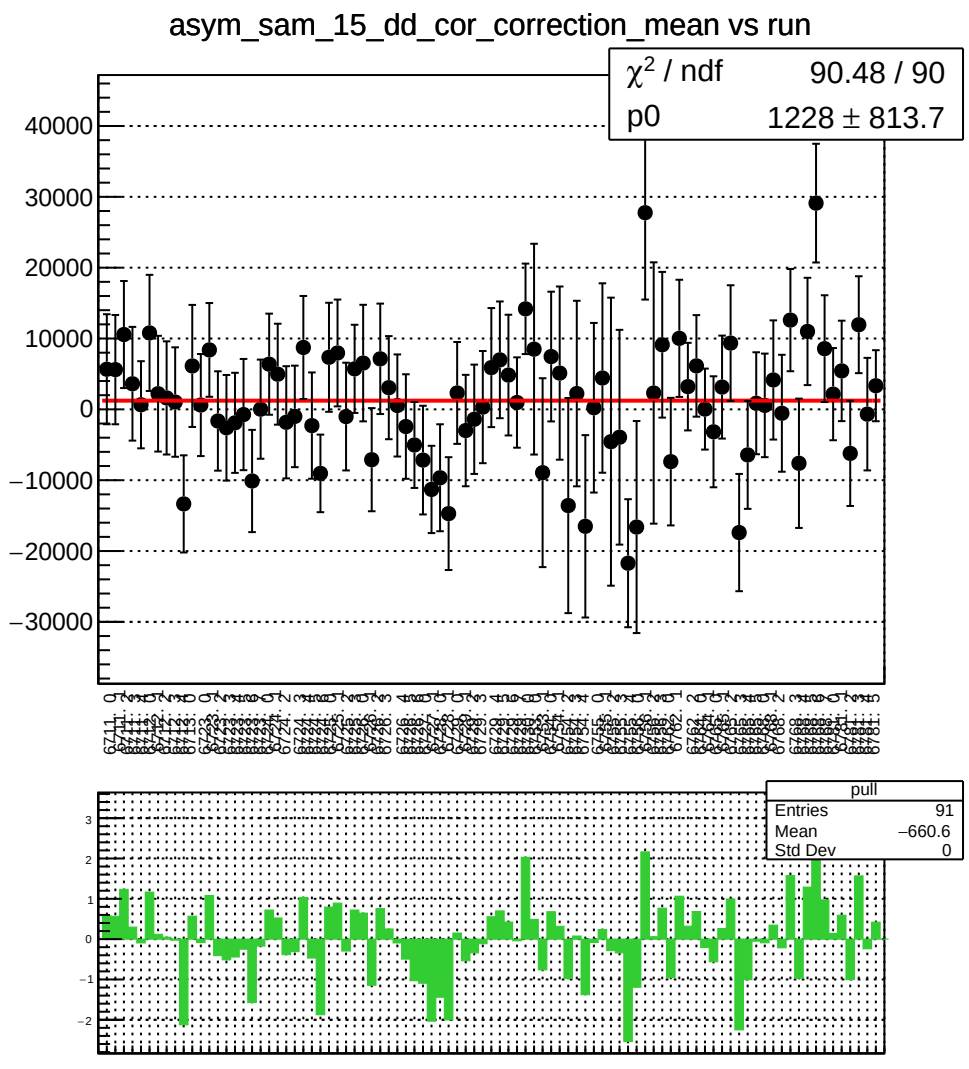

pull1D
Entries 91
Mean −0.003153
Std Dev 0.9971
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

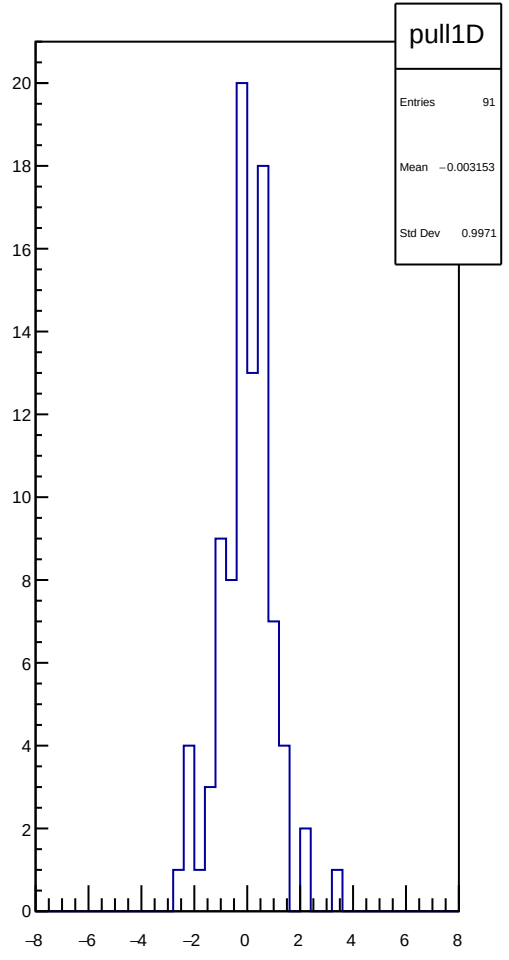

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 6.632e+04 / 90
p0 758.6 ± 0.5754
2000
1800
1600
1400
1200
1000
800
600

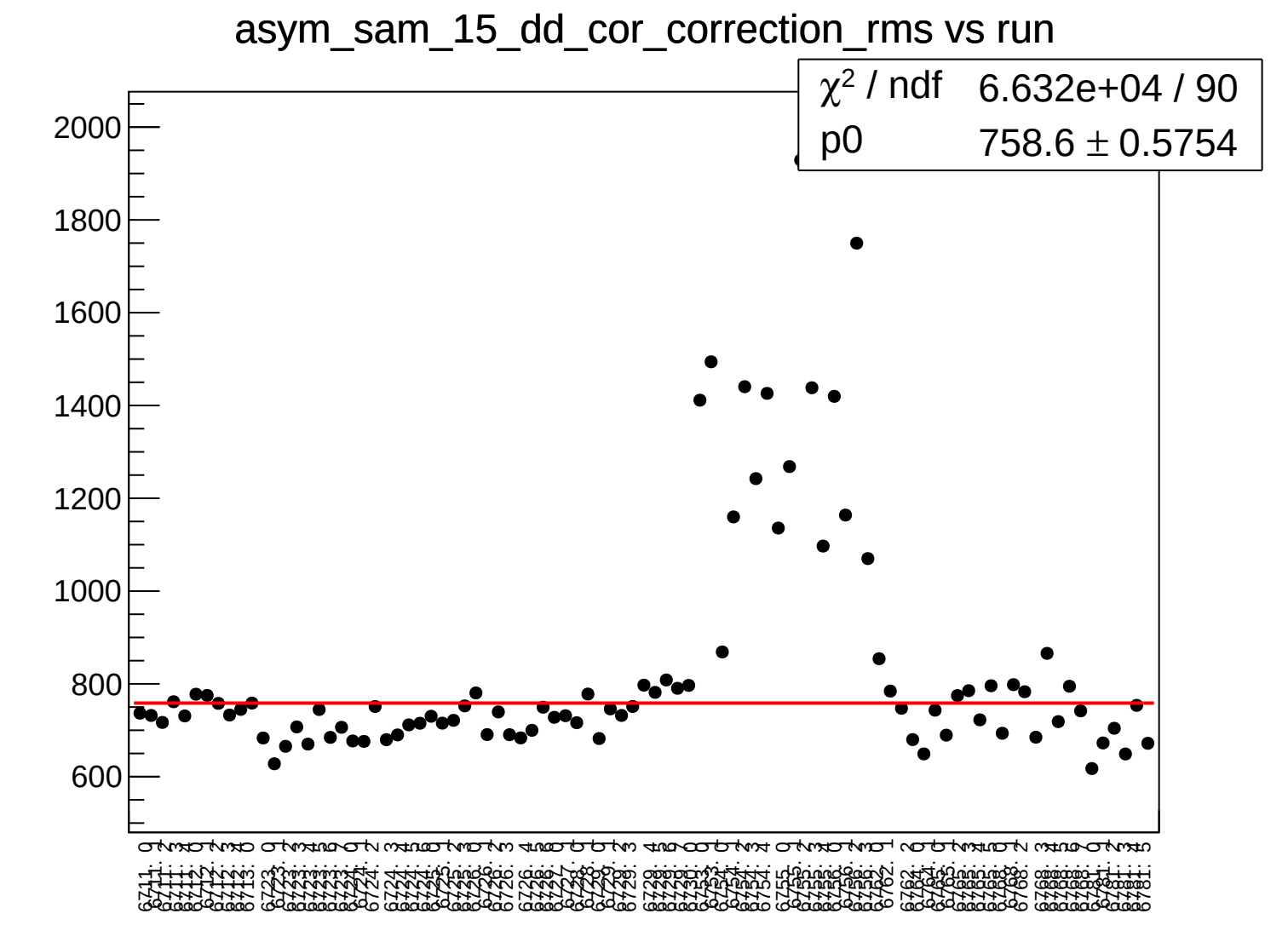

cor_asym_sam_15_dd_mean vs run
χ² / ndf 104.8 / 90
p0 283.3 ± 112.8
pull
Entries 91
Mean −63.68
Std Dev 0

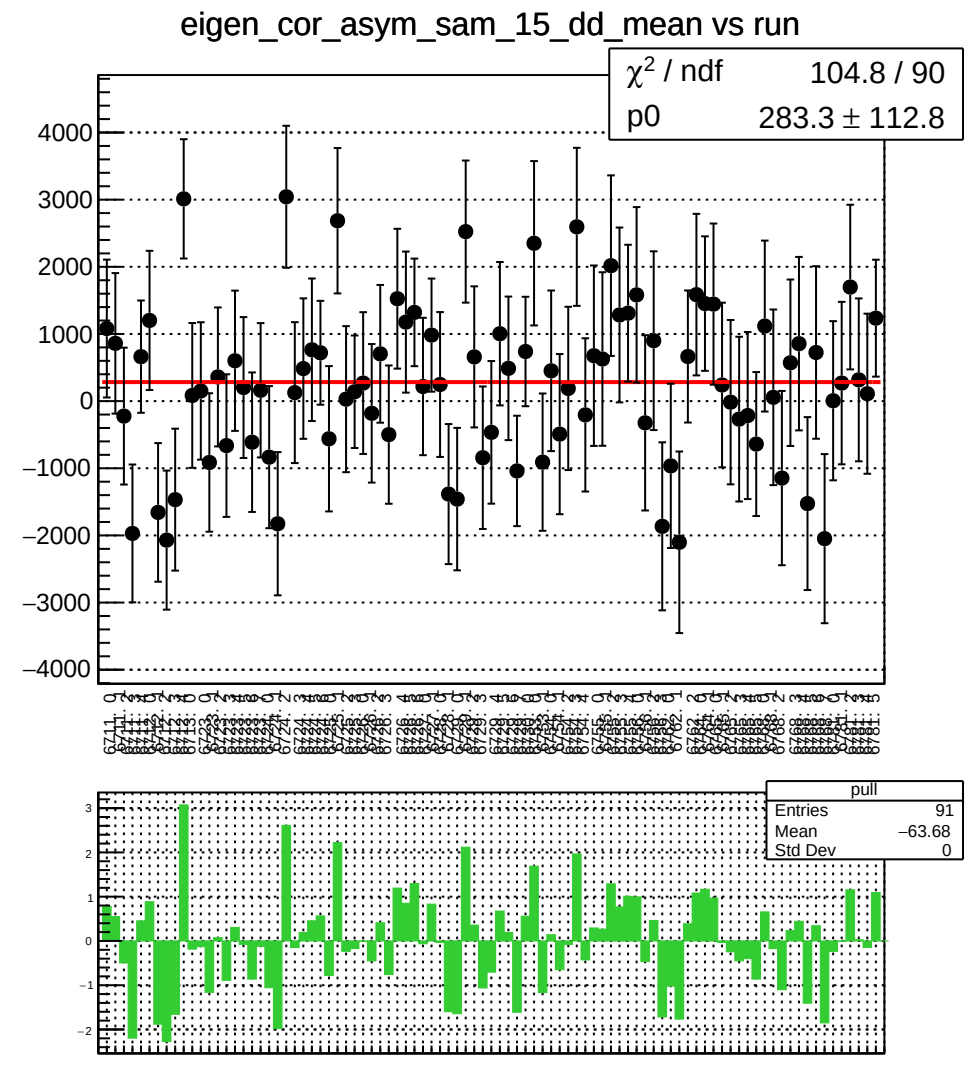

pull1D
Entries 91
Mean −0.01497
Std Dev 1.073

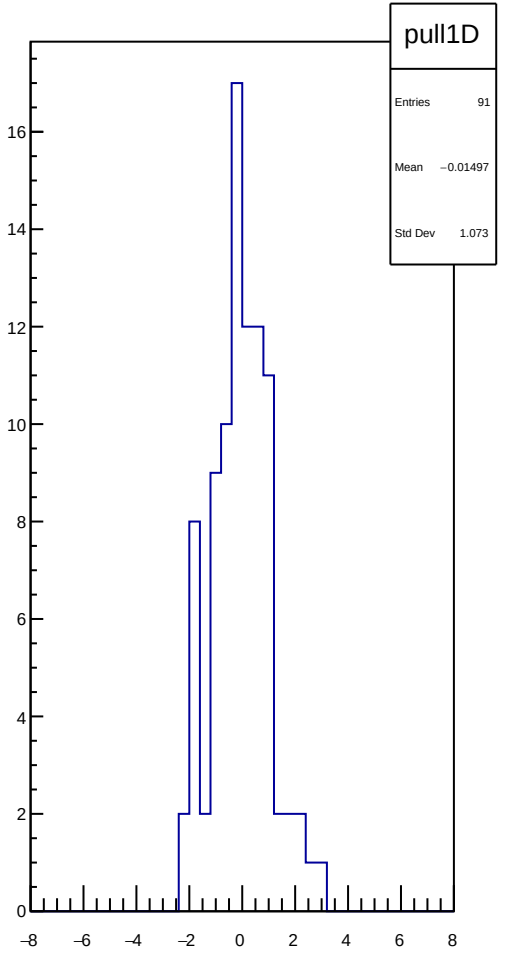

cor_asym_sam_15_dd_rms vs run
χ² / ndf 1.533e+04 / 90
p0 106.7 ± 0.07975
130
125
120
115
110
105
100
95

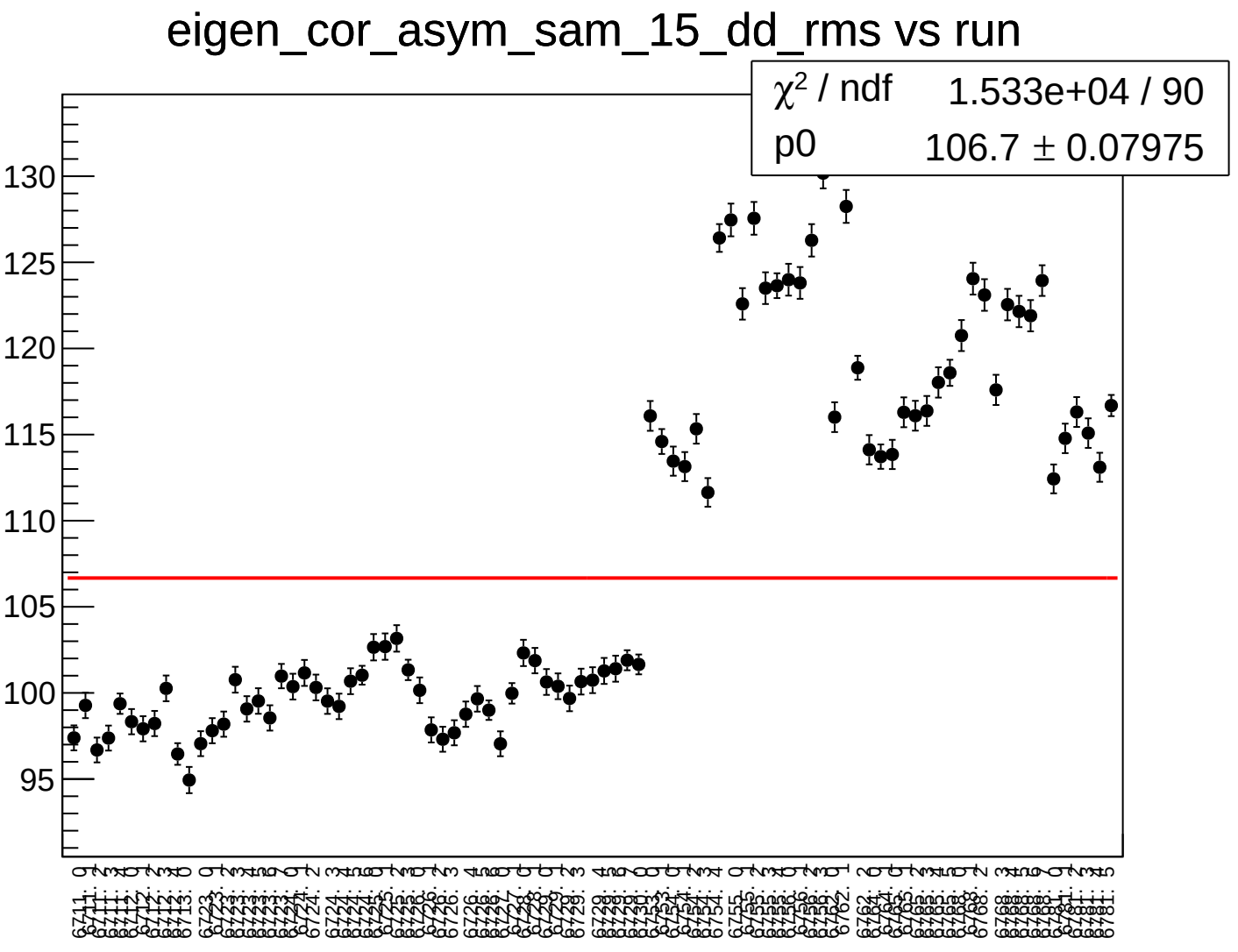

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 90.48 / 90
p0 1228 ± 813.7
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −660.6
Std Dev 0
3
2
1
0
−1
−2

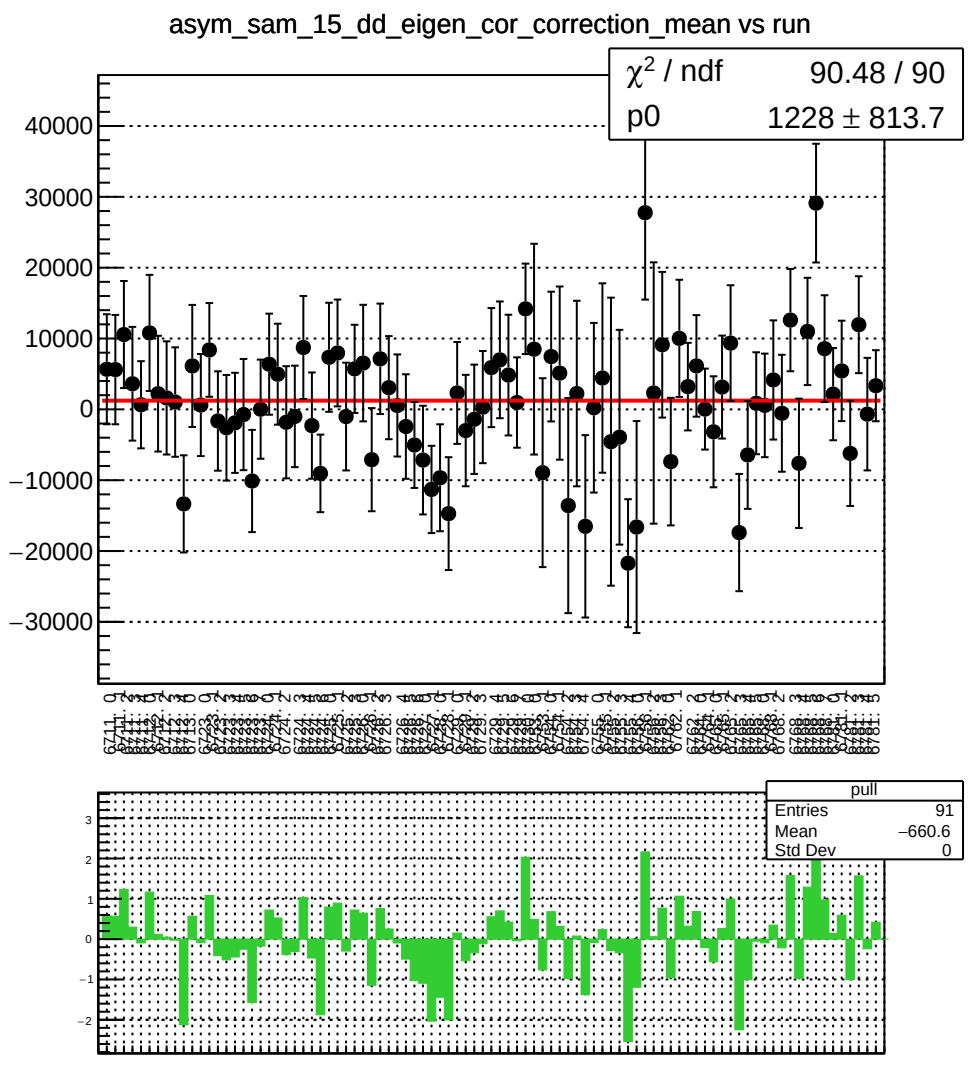

pull1D
Entries 91
Mean −0.003153
Std Dev 0.9971
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

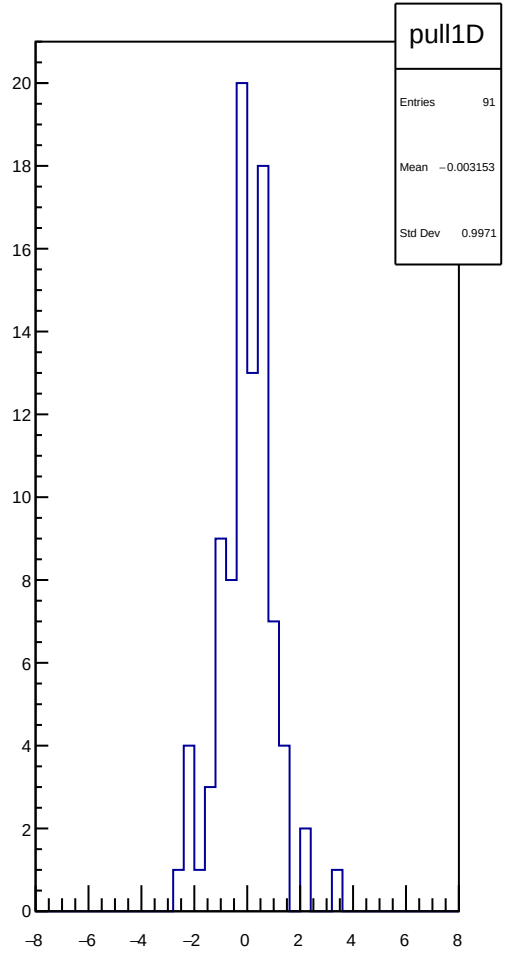

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 6.632e+04 / 90
p0 758.6 ± 0.5754
2000
1800
1600
1400
1200
1000
800
600

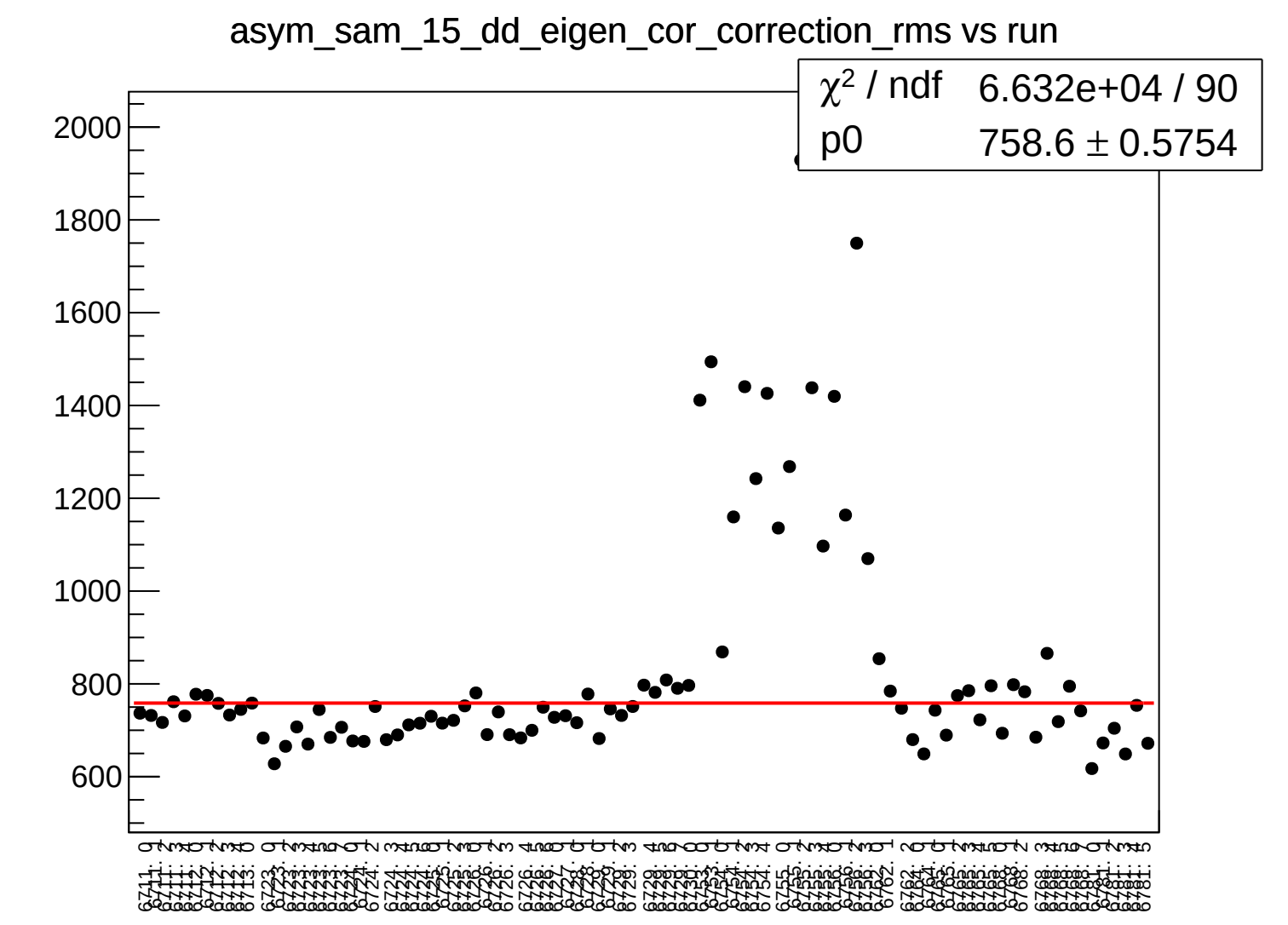

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 104.8 / 90
p0 283.3 ± 112.8
pull
Entries 91
Mean −63.68
Std Dev 0

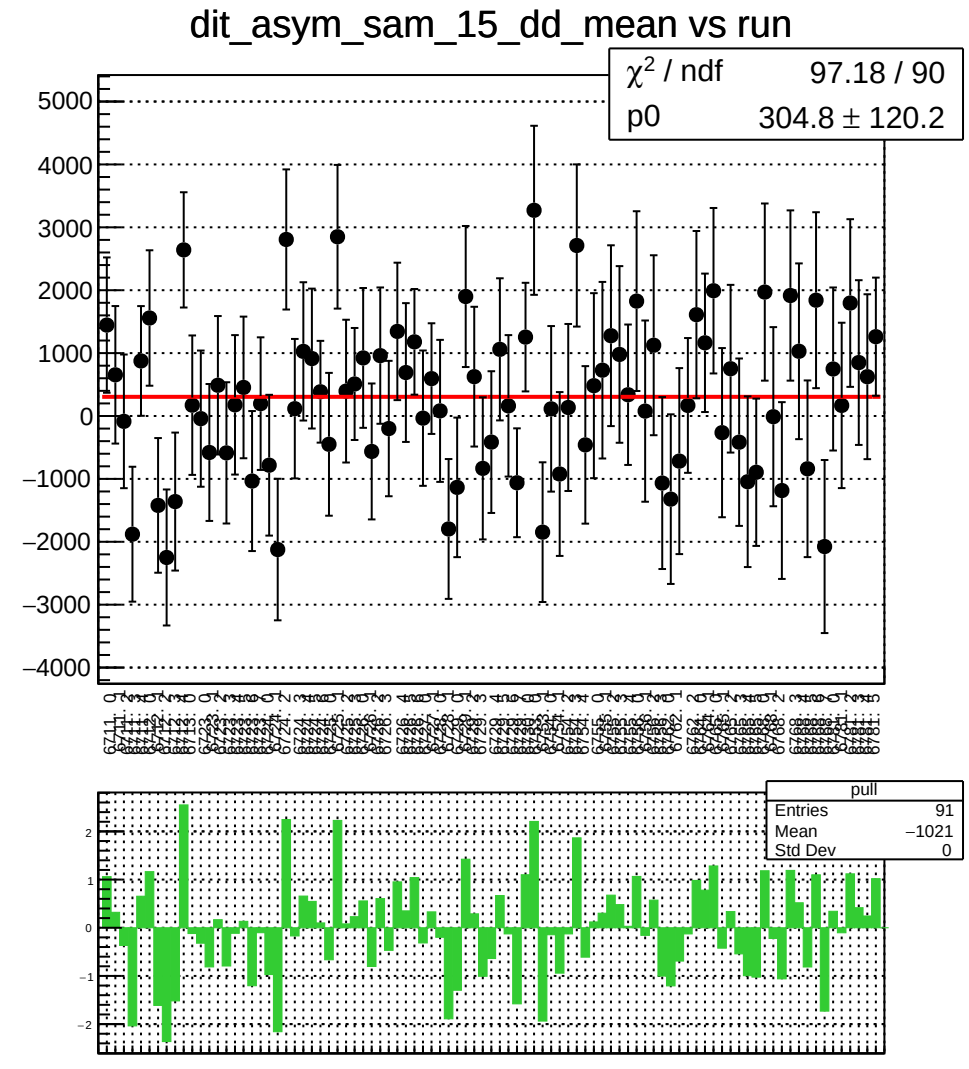

pull1D
Entries 91
Mean −0.01497
Std Dev 1.073

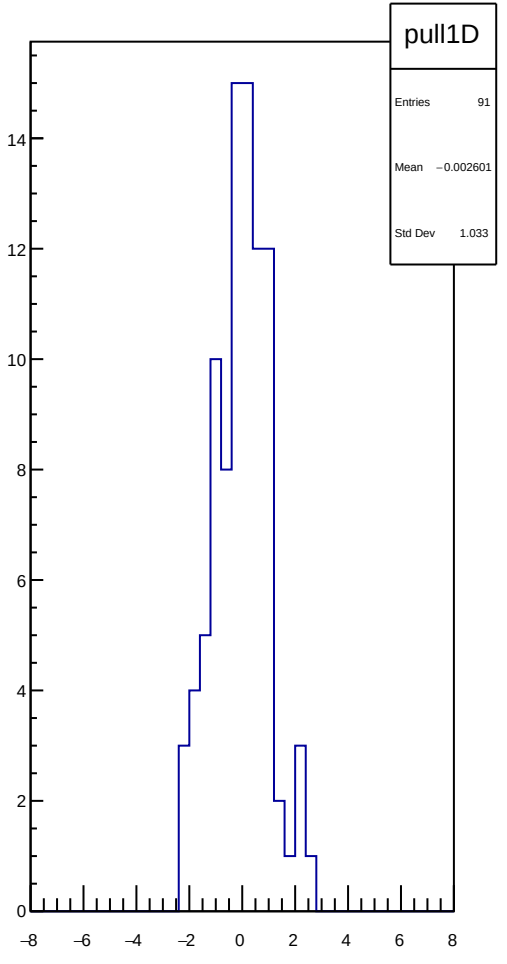

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 1.533e+04 / 90
p0 106.7 ± 0.07975
130
125
120
115
110
105
100
95

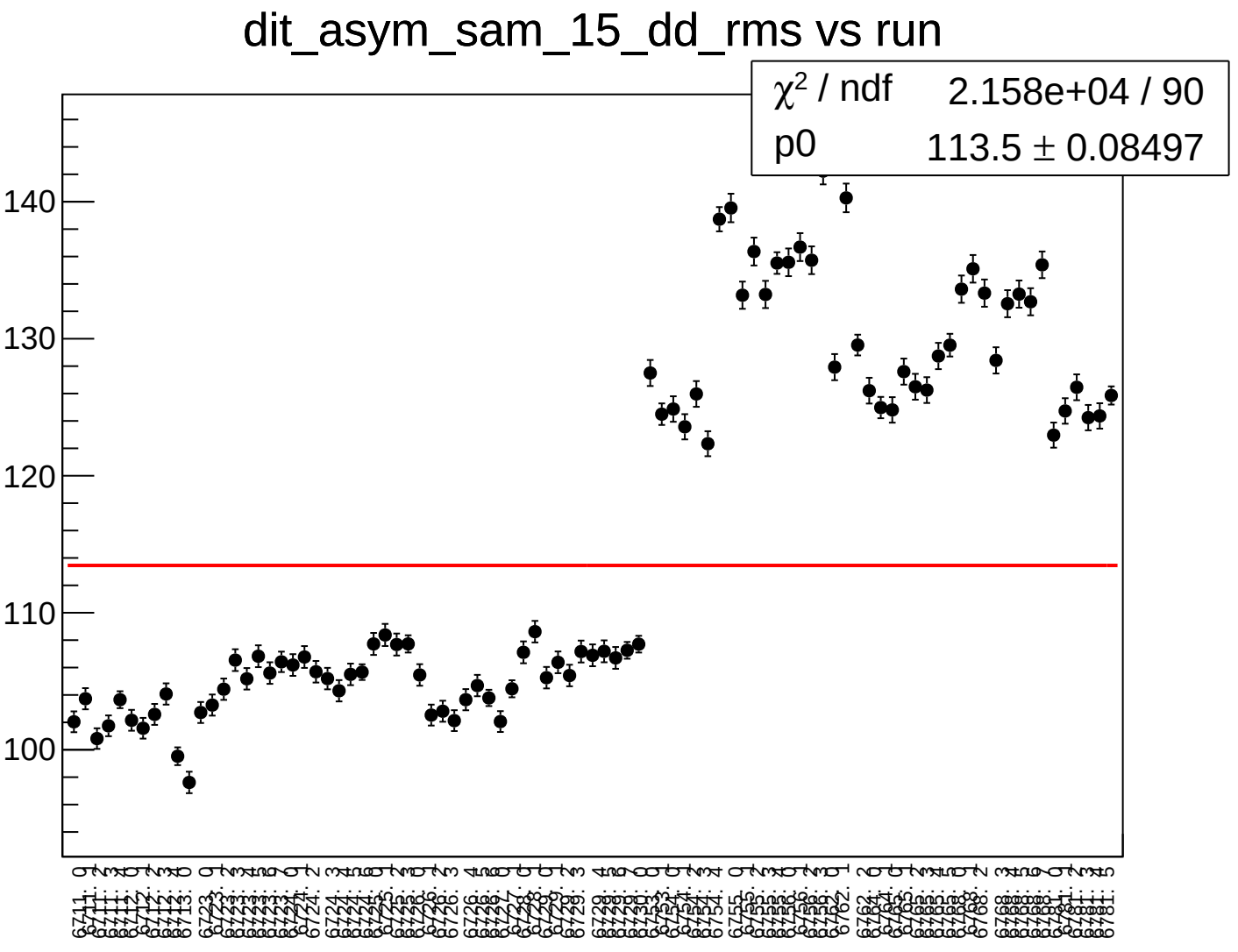

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.48 / 90
p0 1228 ± 813.7
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −660.6
Std Dev 0
3
2
1
0
−1
−2

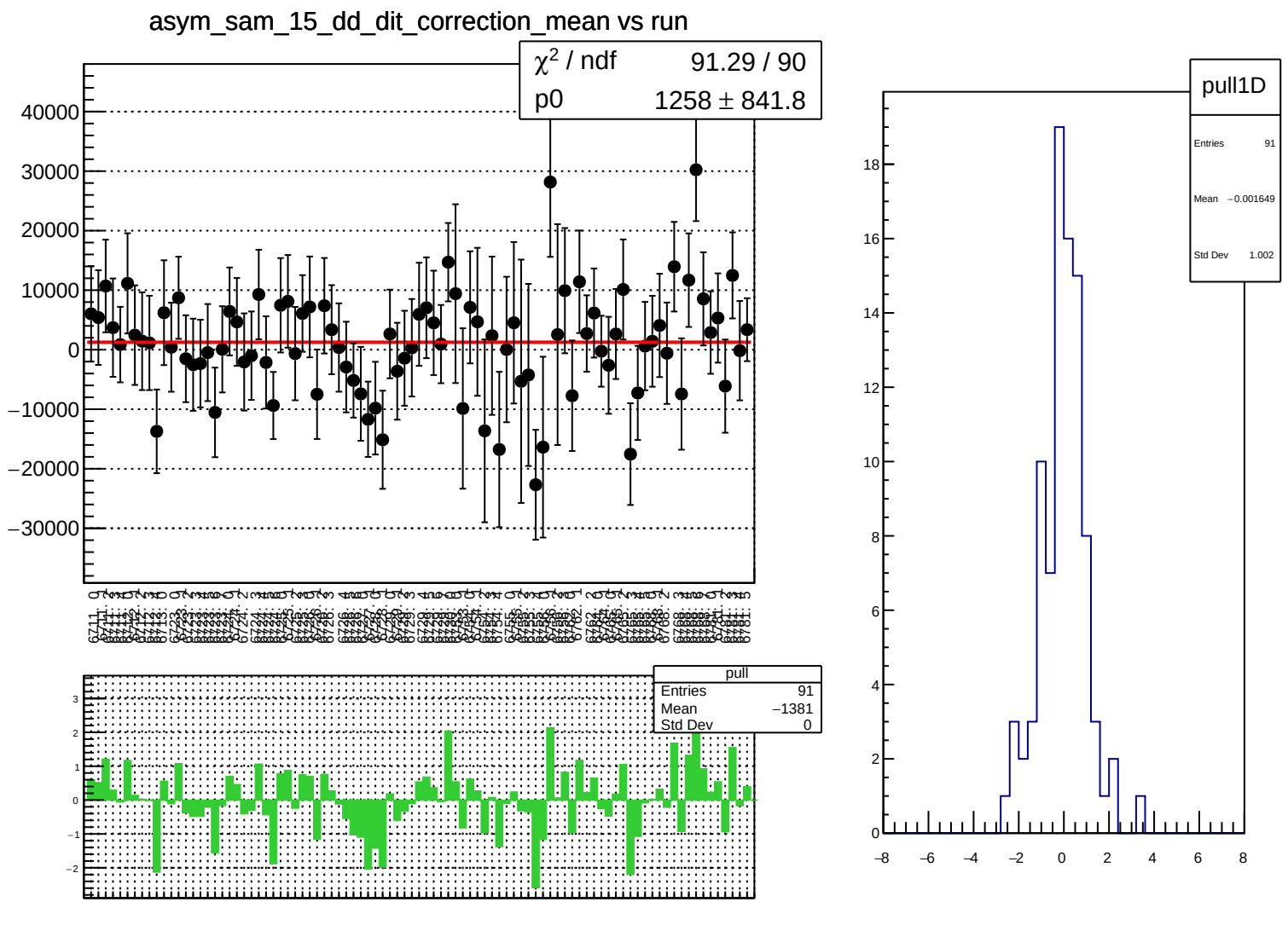

pull1D
Entries 91
Mean −0.003153
Std Dev 0.9971
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

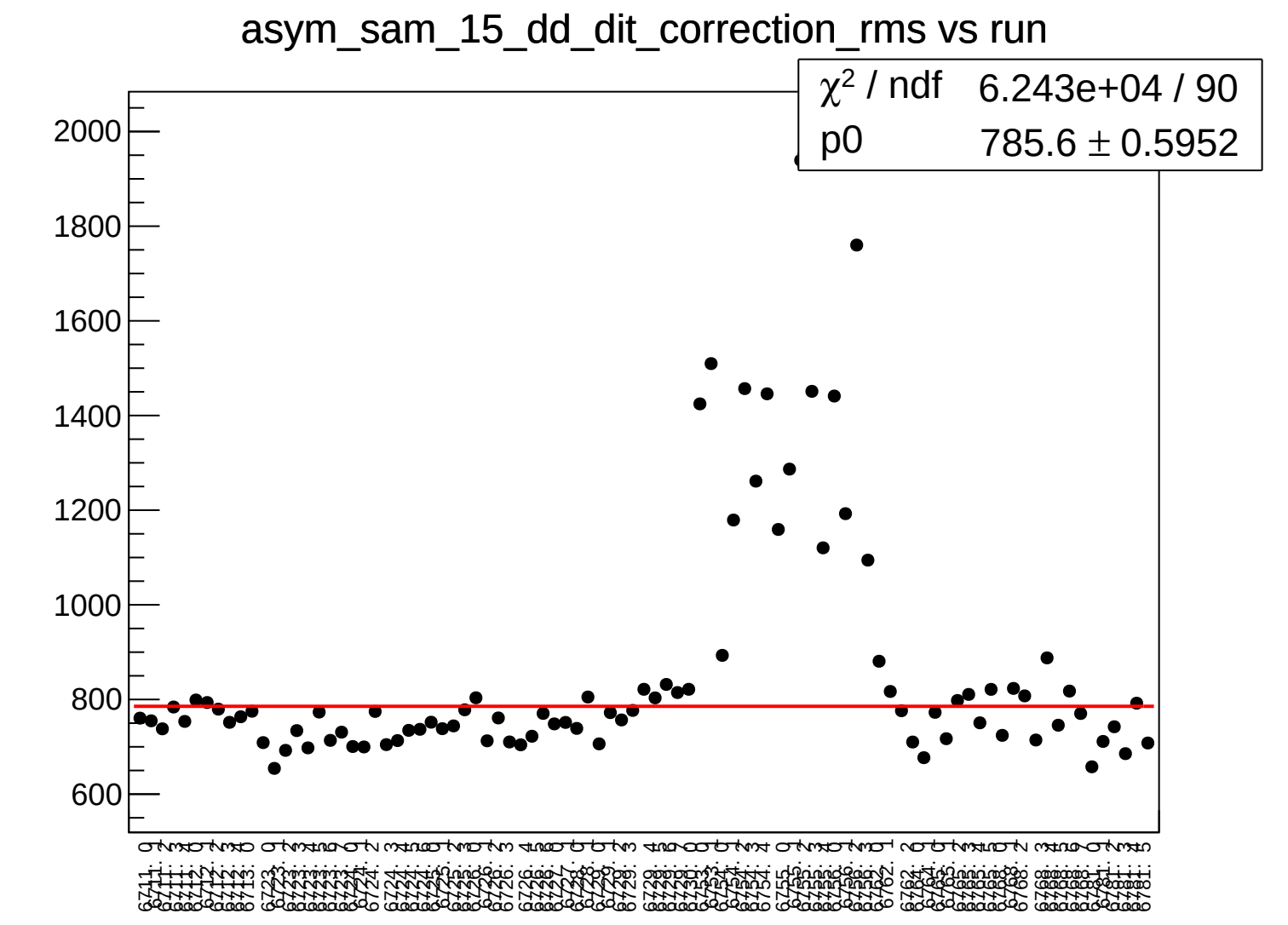

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.632e+04 / 90
p0 758.6 ± 0.5754
2000
1800
1600
1400
1200
1000
800
600

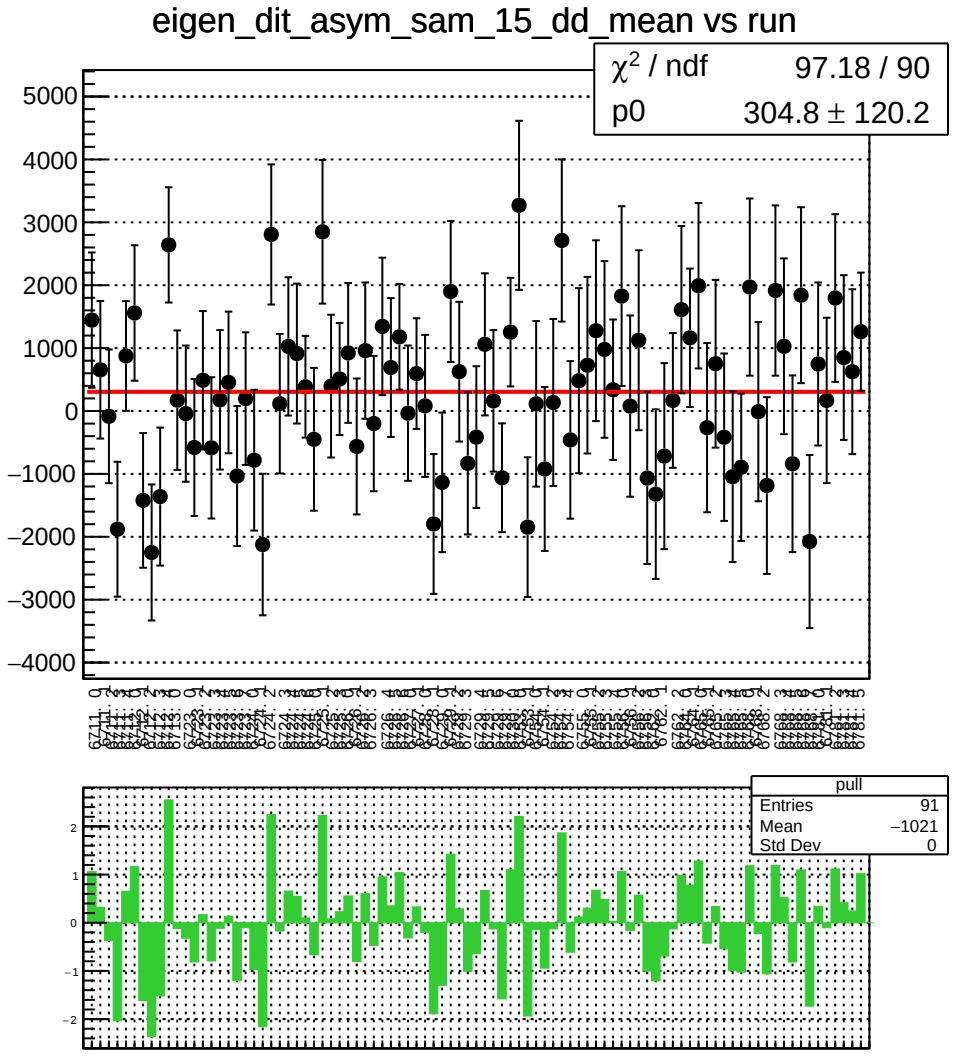

dit_asym_sam_15_dd_mean vs run
χ² / ndf 97.18 / 90
p0 304.8 ± 120.2
pull
Entries 91
Mean −1021
Std Dev 0

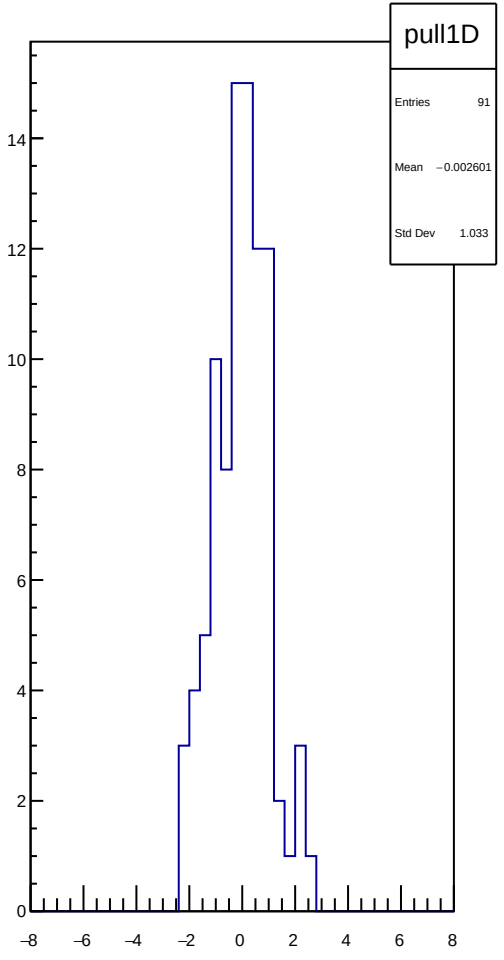

pull1D
Entries 91
Mean −0.002601
Std Dev 1.033

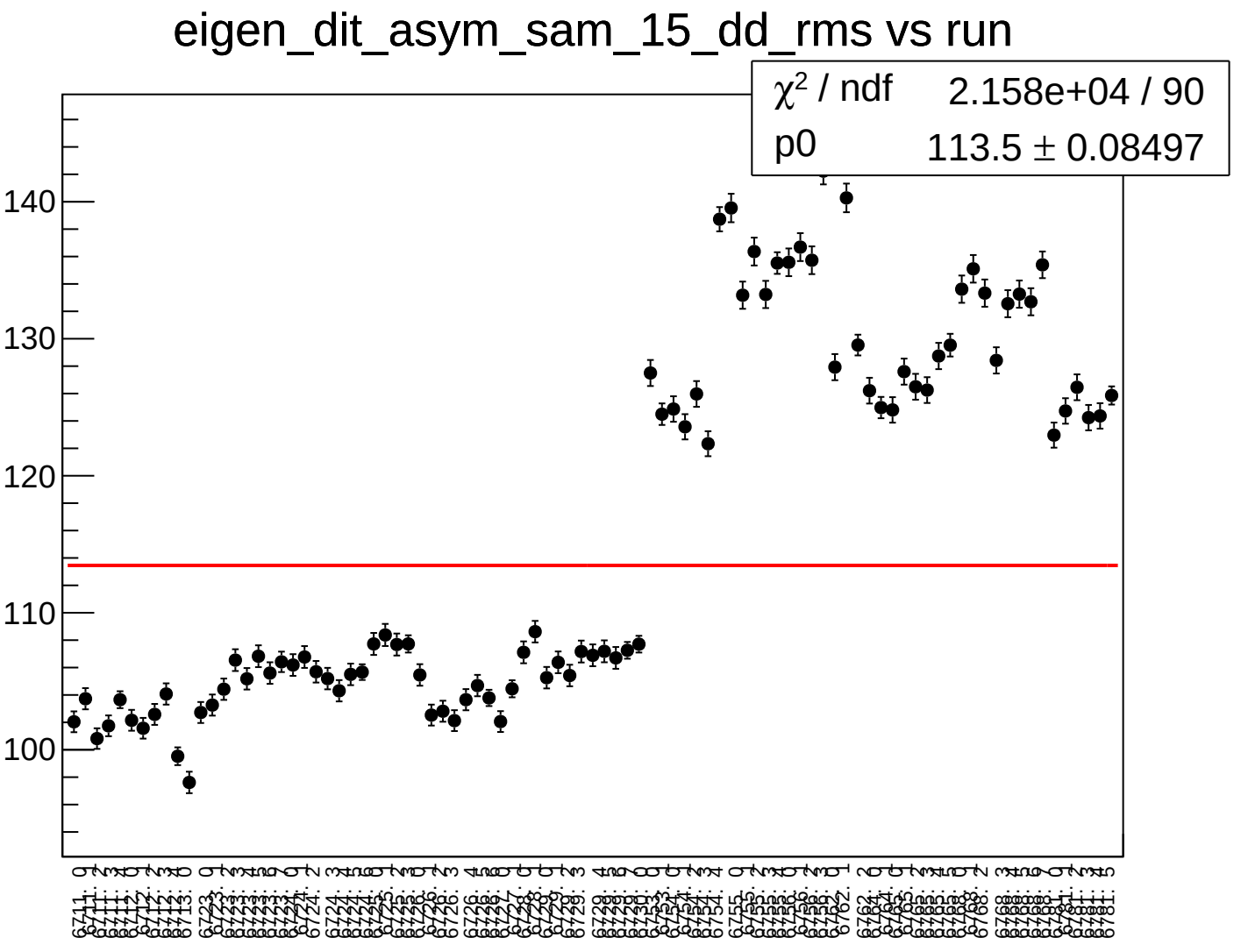

dit_asym_sam_15_dd_rms vs run
χ² / ndf 2.158e+04 / 90
p0 113.5 ± 0.08497
140
130
120
110
100

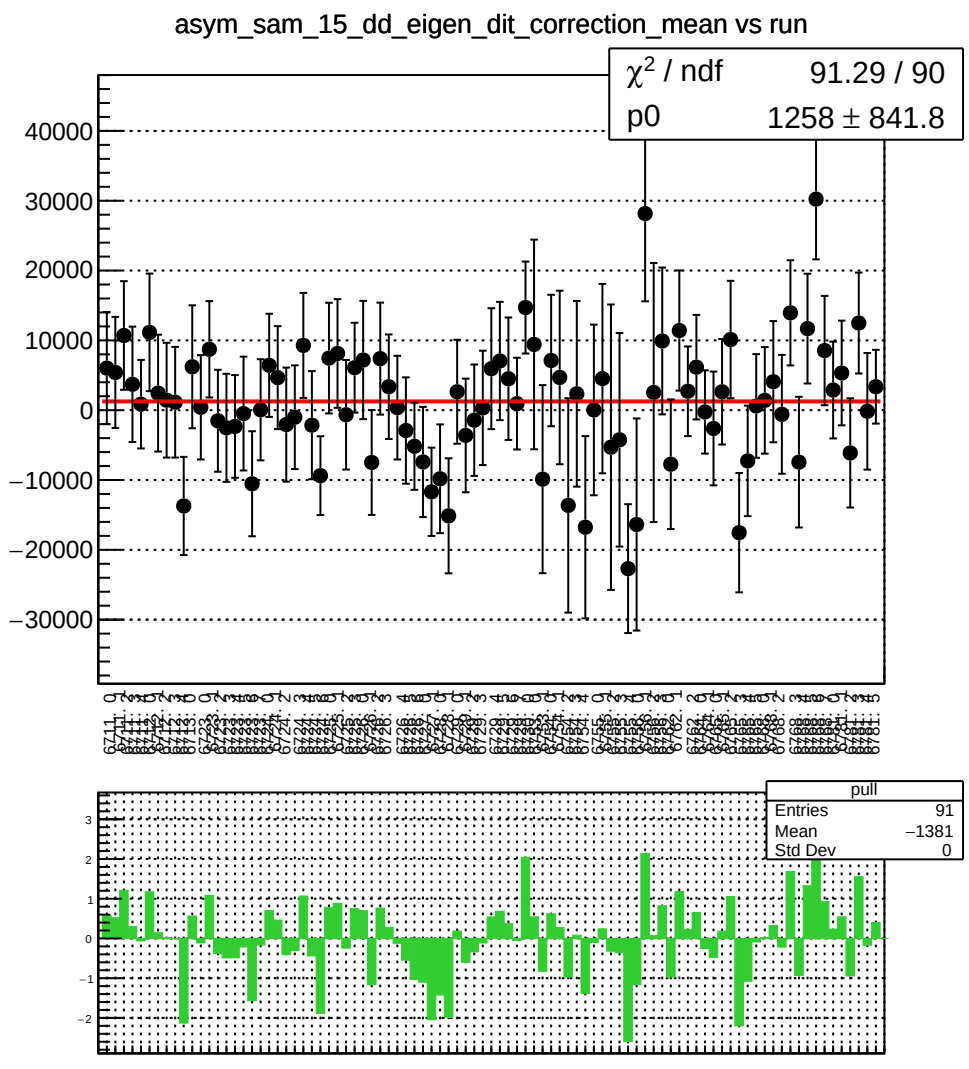

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 91.29 / 90
p0 1258 ± 841.8
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −1381
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.001649
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

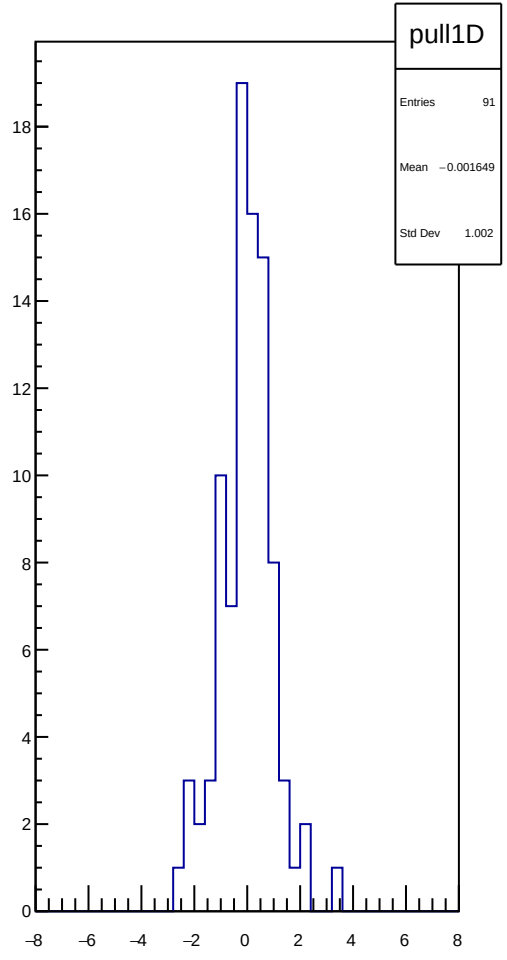

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 6.243e+04 / 90
p0 785.6 ± 0.5952
2000
1800
1600
1400
1200
1000
800
600

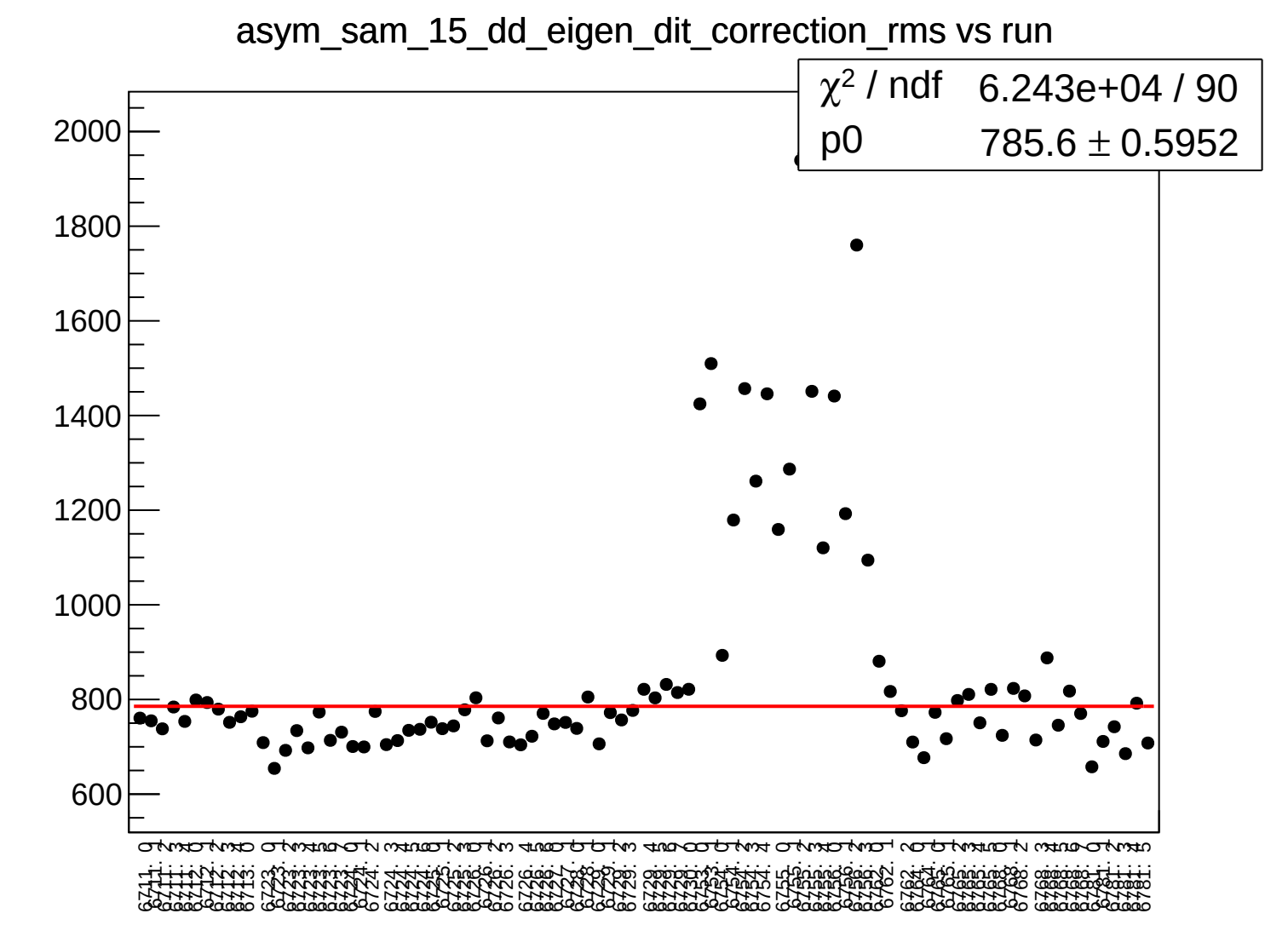

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 97.18 / 90
p0 304.8 ± 120.2
pull
Entries 91
Mean −1021
Std Dev 0

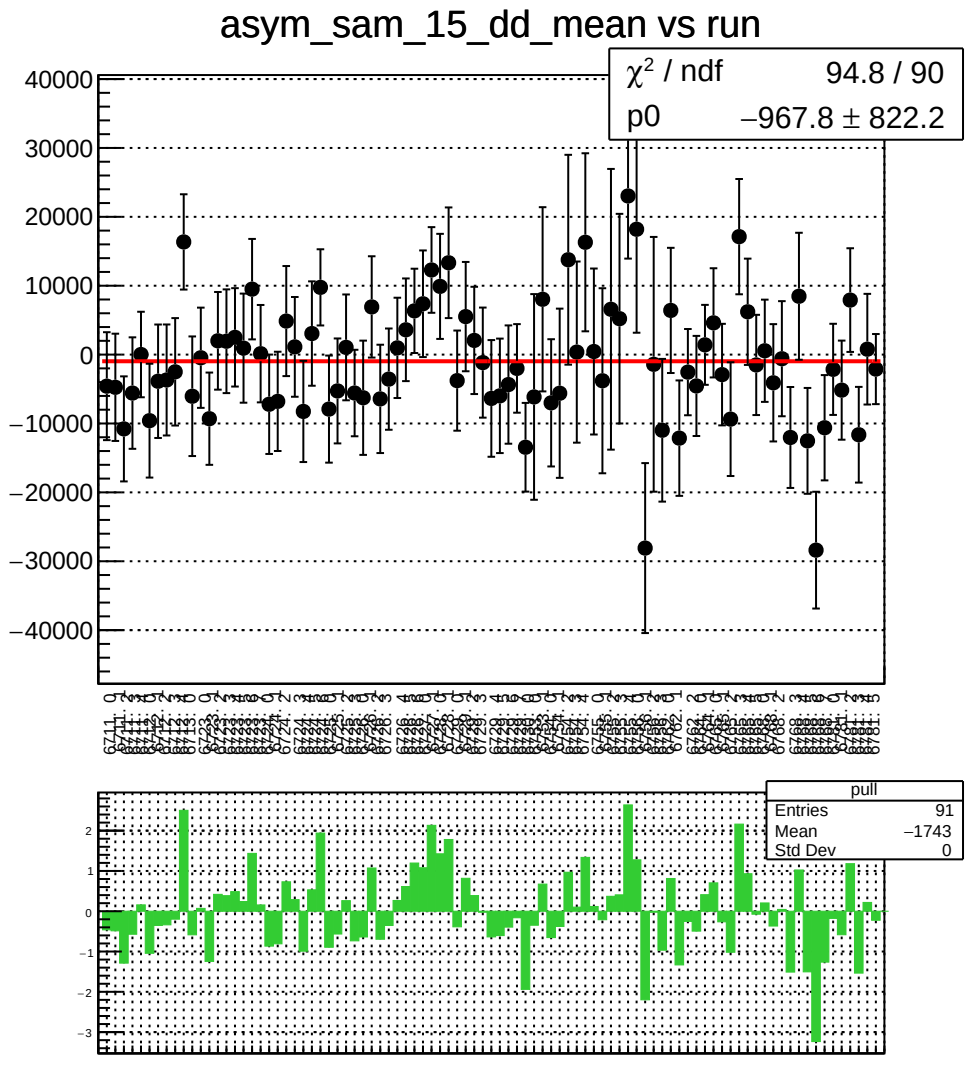

pull1D
Entries 91
Mean −0.002601
Std Dev 1.033

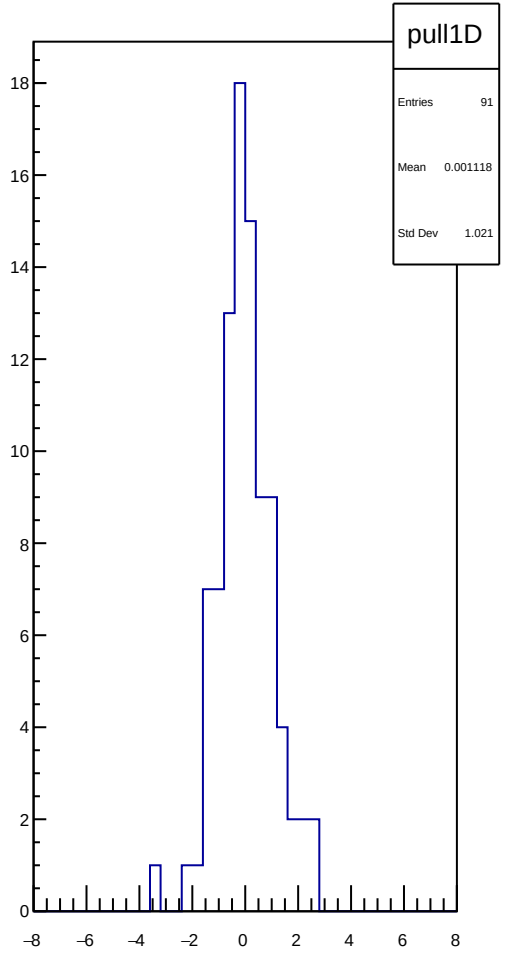

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 2.158e+04 / 90
p0 113.5 ± 0.08497
140
130
120
110
100

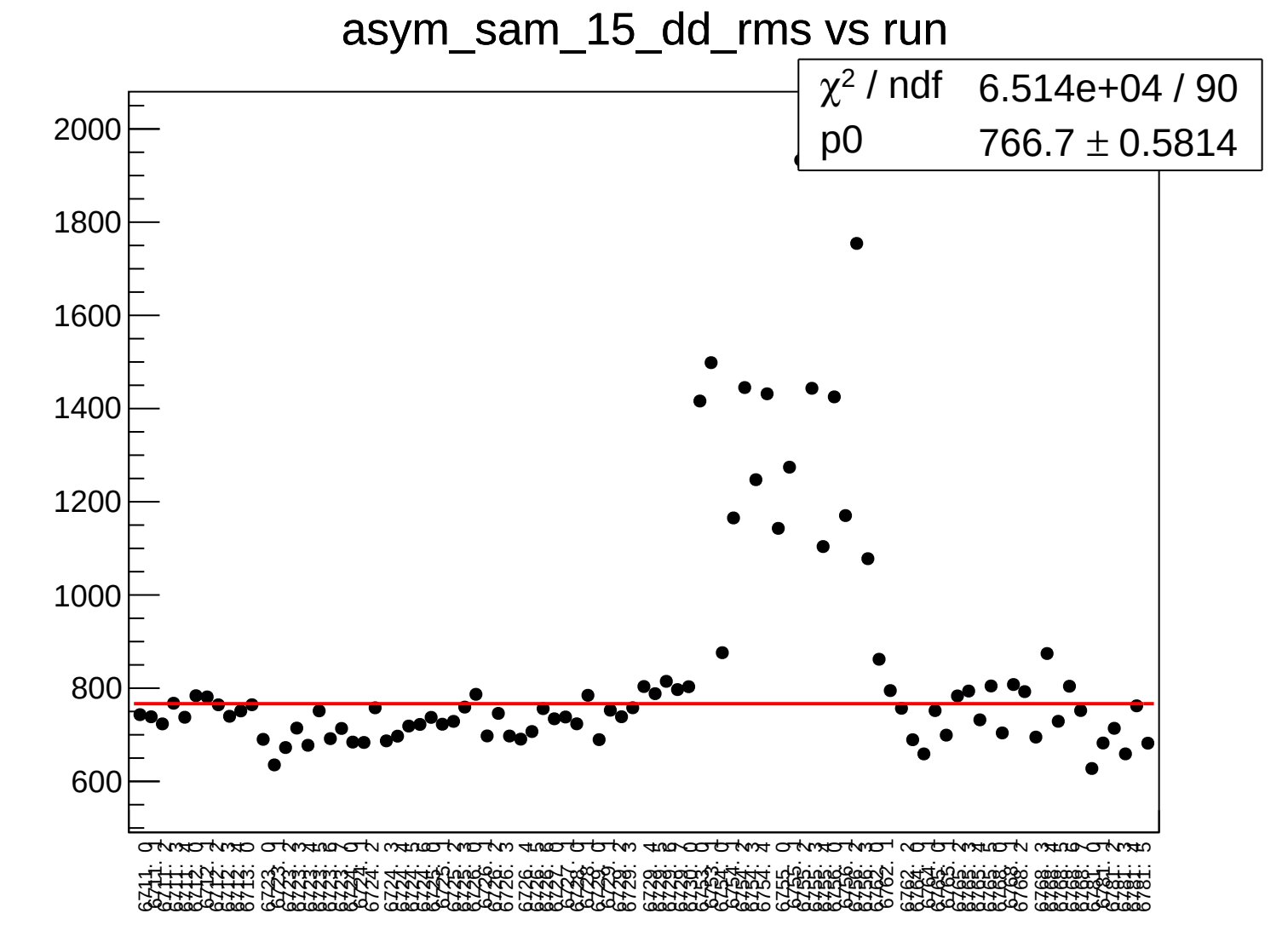

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 91.29 / 90
p0 1258 ± 841.8
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −1381
Std Dev 0
3
2
1
0
−1
−2

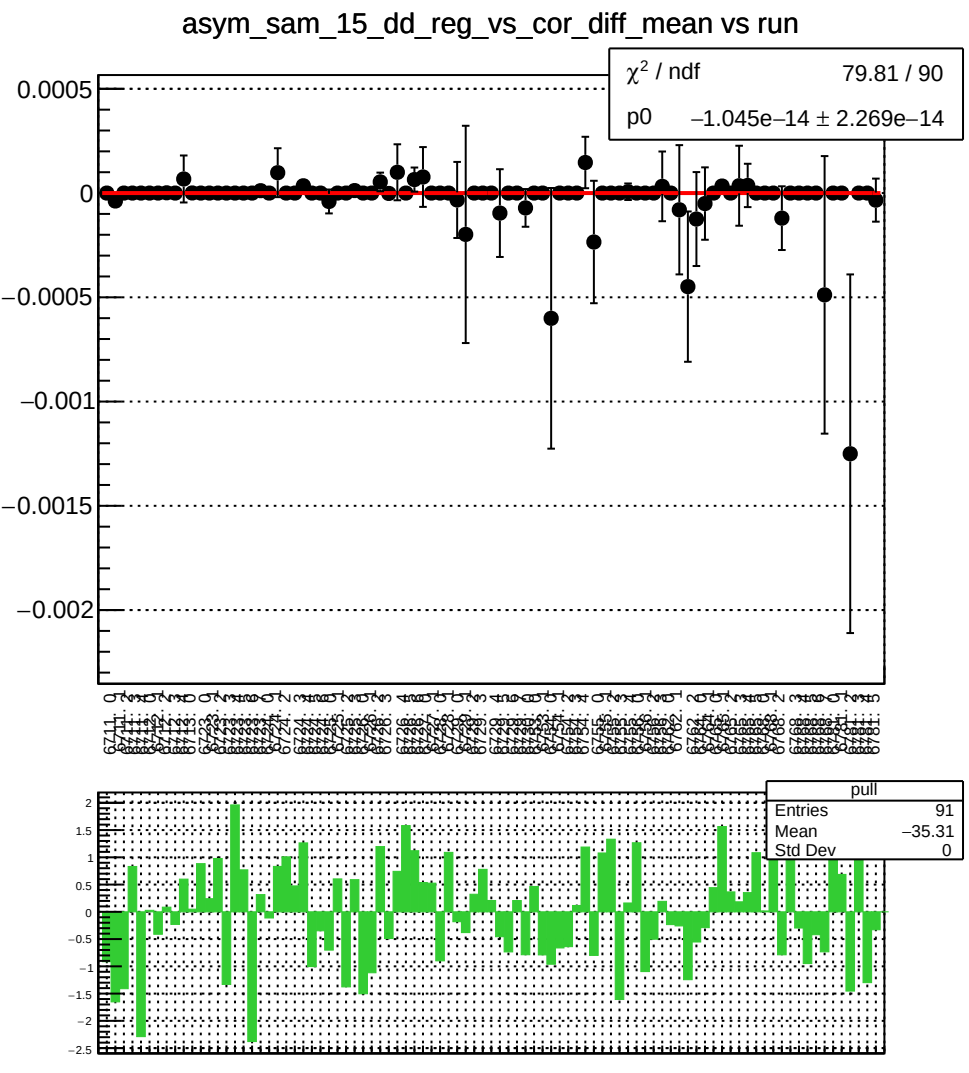

pull1D
Entries 91
Mean −0.001649
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

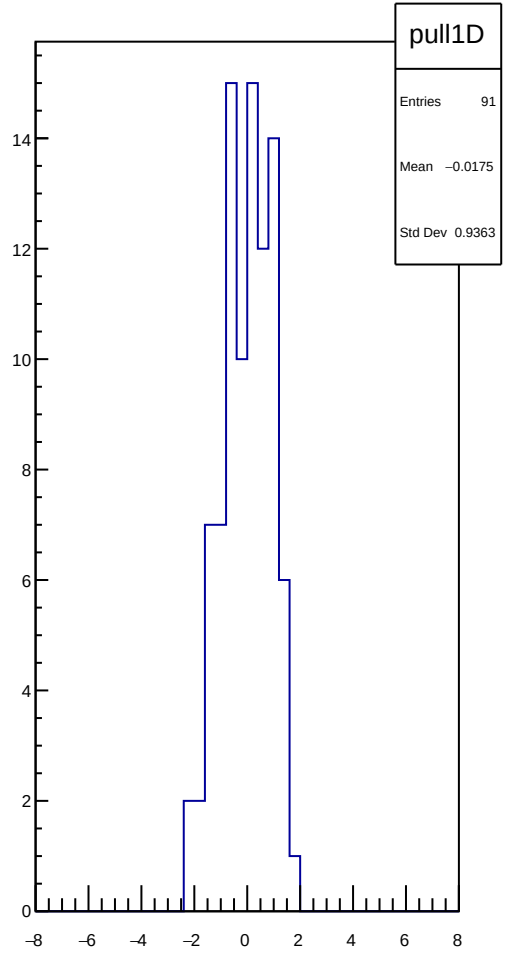

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 6.243e+04 / 90
p0 785.6 ± 0.5952
2000
1800
1600
1400
1200
1000
800
600

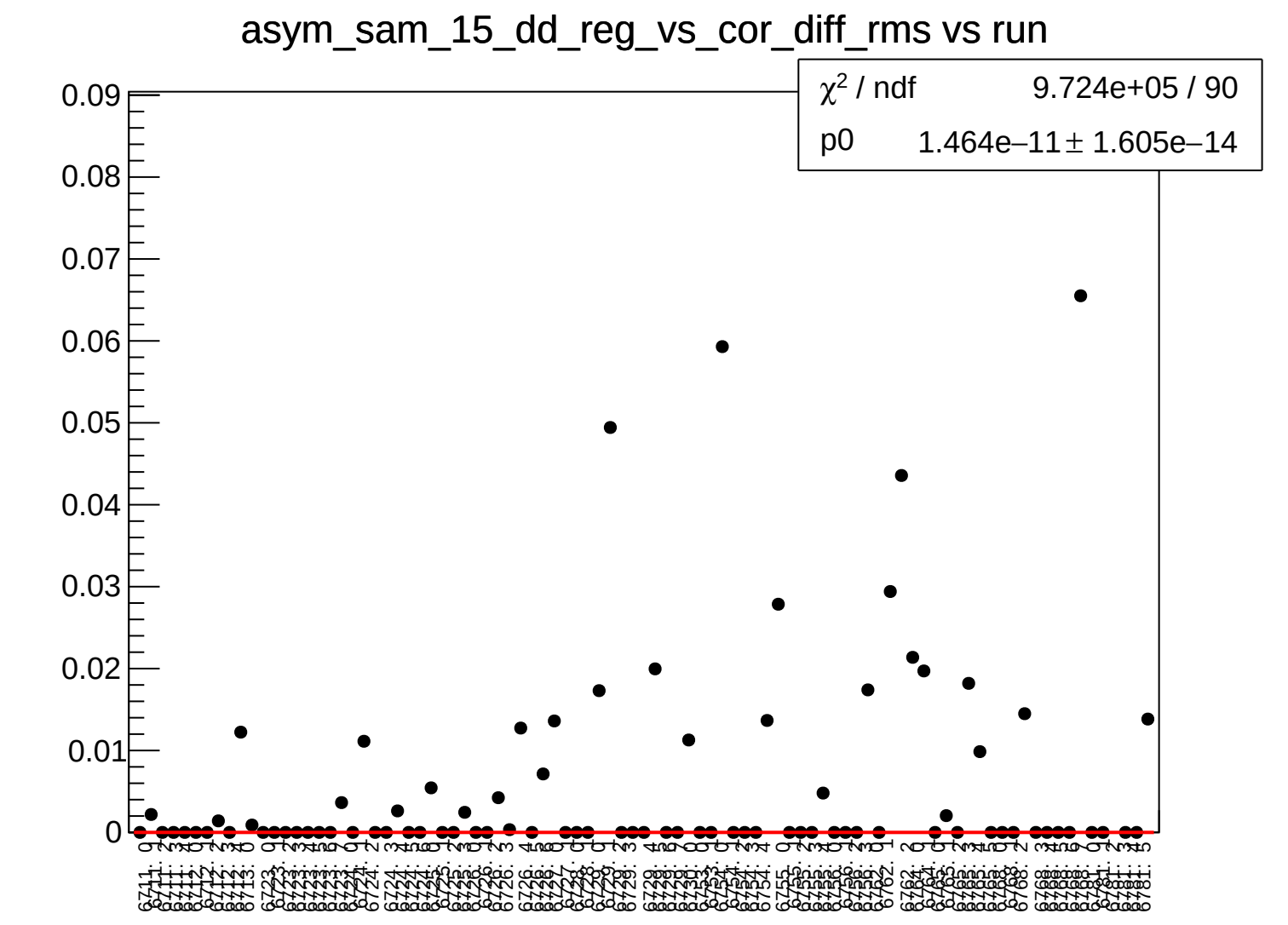

asym_sam_15_dd_mean vs run
χ² / ndf 94.8 / 90
p0 −967.8 ± 822.2
pull
Entries 91
Mean −1743
Std Dev 0

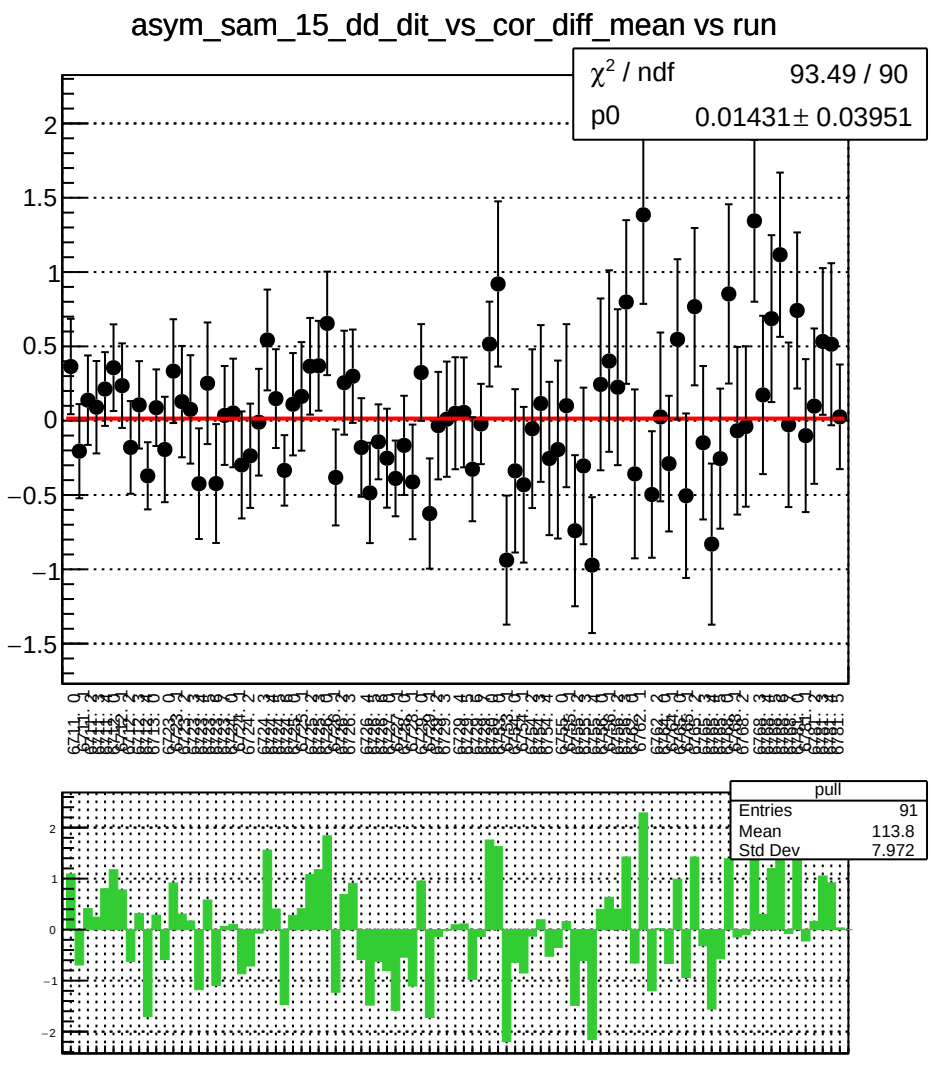

pull1D
Entries 91
Mean 0.001118
Std Dev 1.021

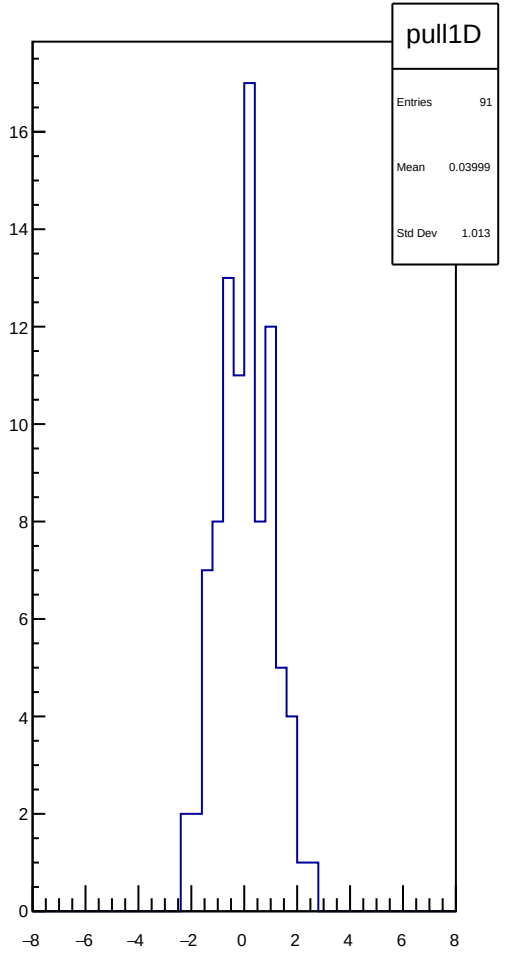

asym_sam_15_dd_rms vs run
χ^2 / ndf 6.514e+04 / 90
p0 766.7 ± 0.5814
2000
1800
1600
1400
1200
1000
800
600

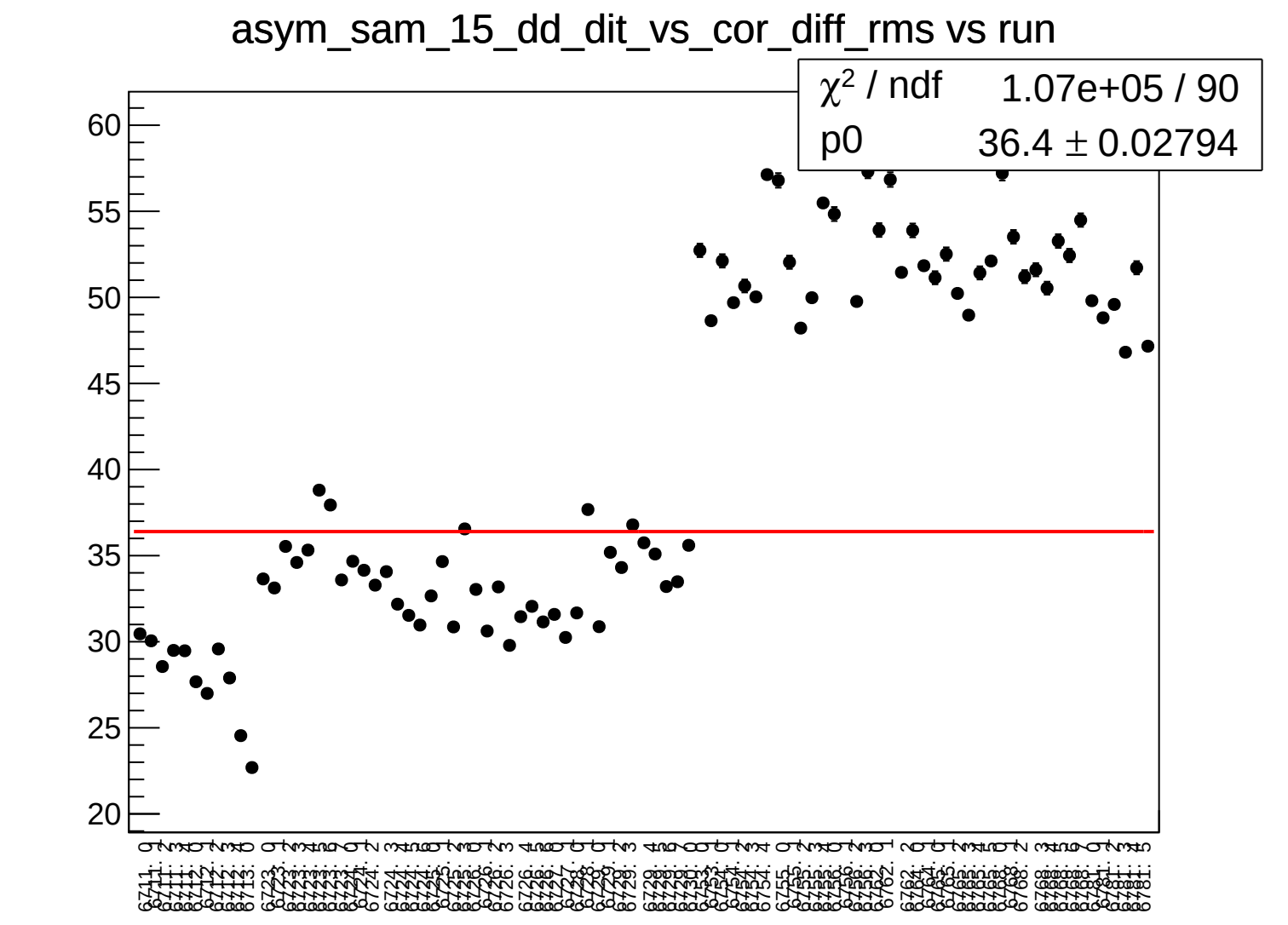

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.81 / 90
p0 −1.045e−14 ± 2.269e−14
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 91
Mean −35.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

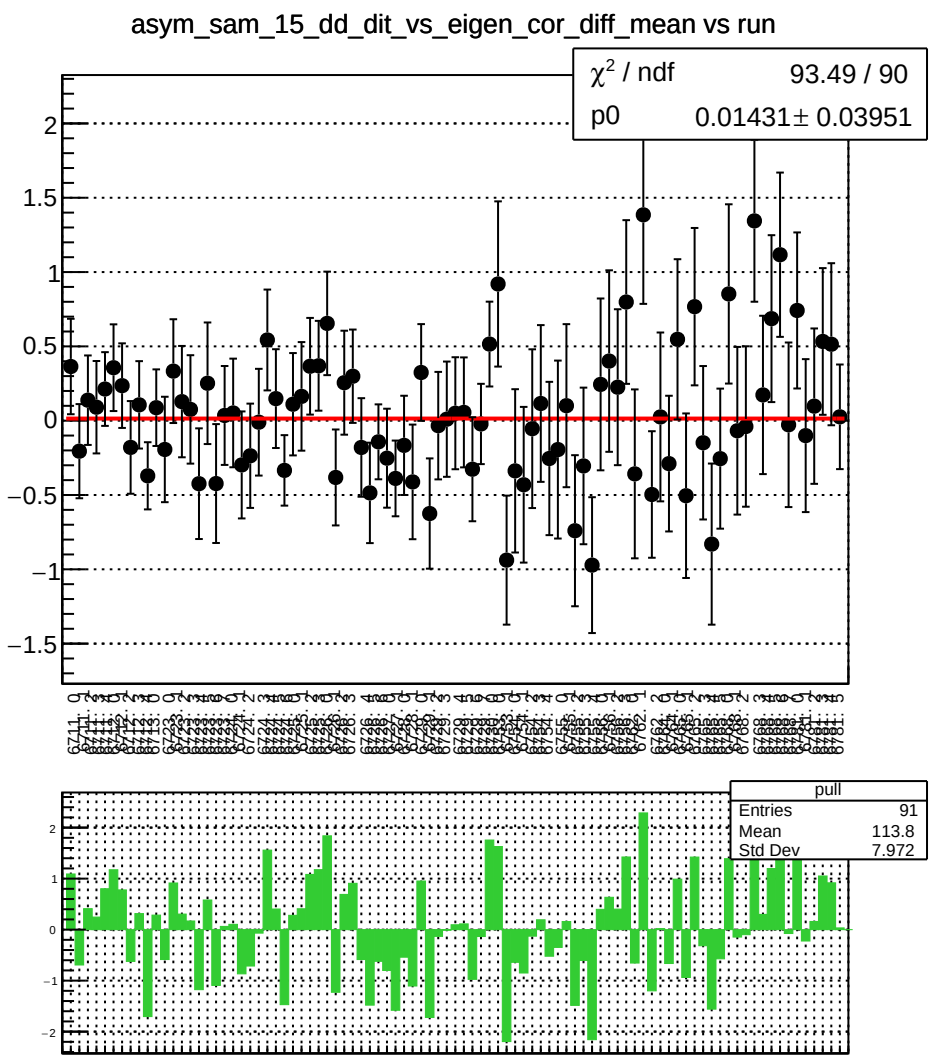

pull1D
Entries 91
Mean −0.0175
Std Dev 0.9363
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

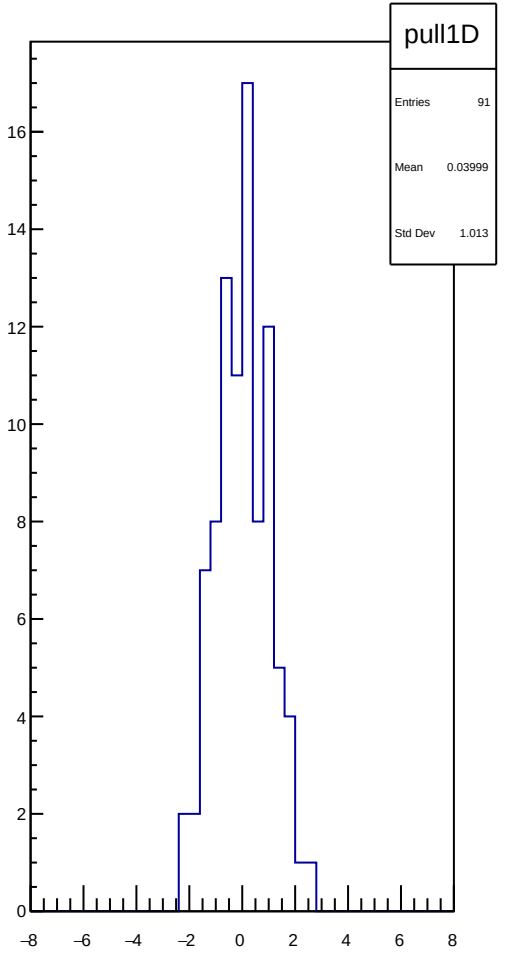

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.724e+05 / 90
p0 1.464e−11 ± 1.605e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

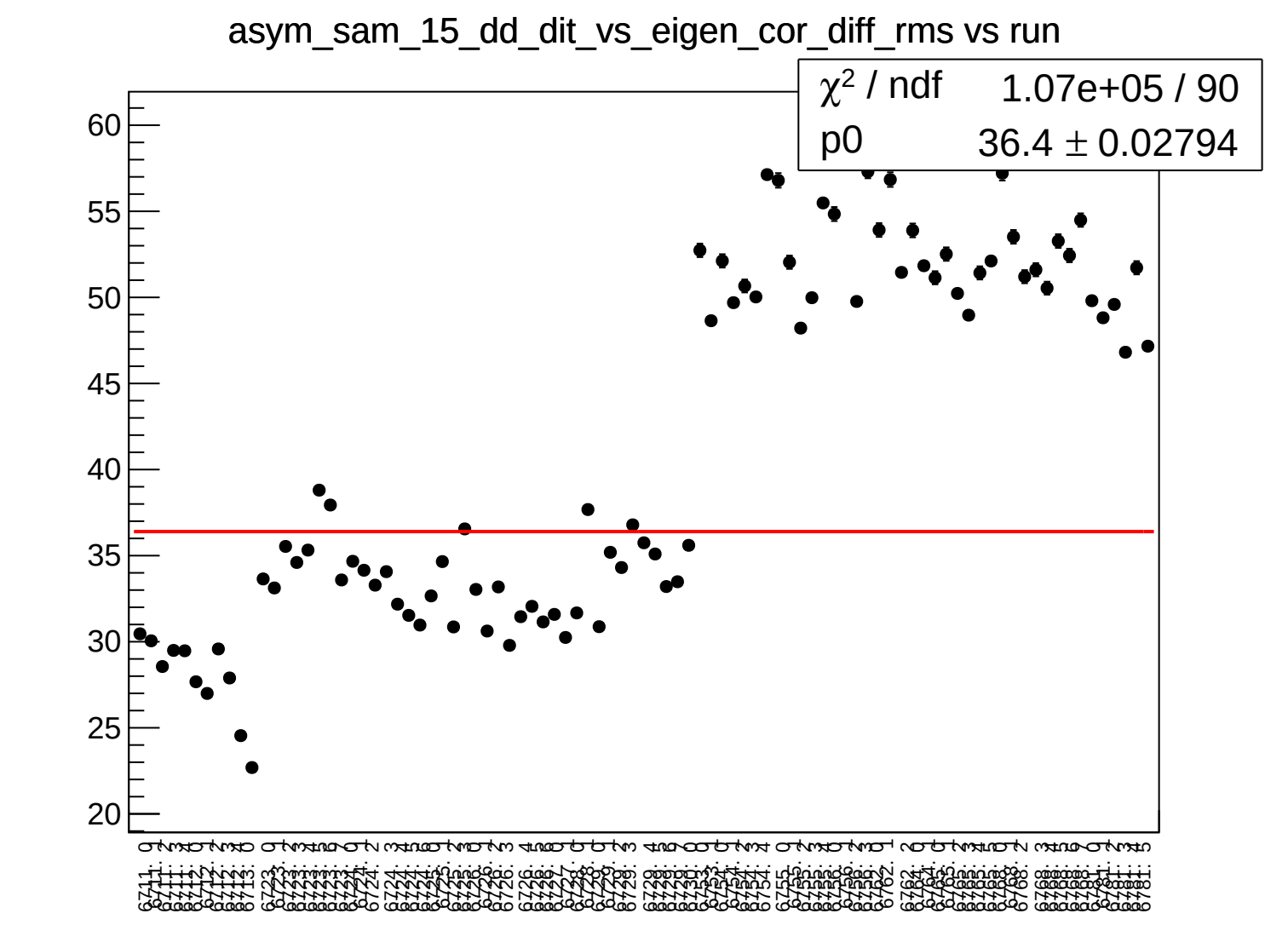

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.49 / 90
p0 0.01431± 0.03951
pull
Entries 91
Mean 113.8
Std Dev 7.972

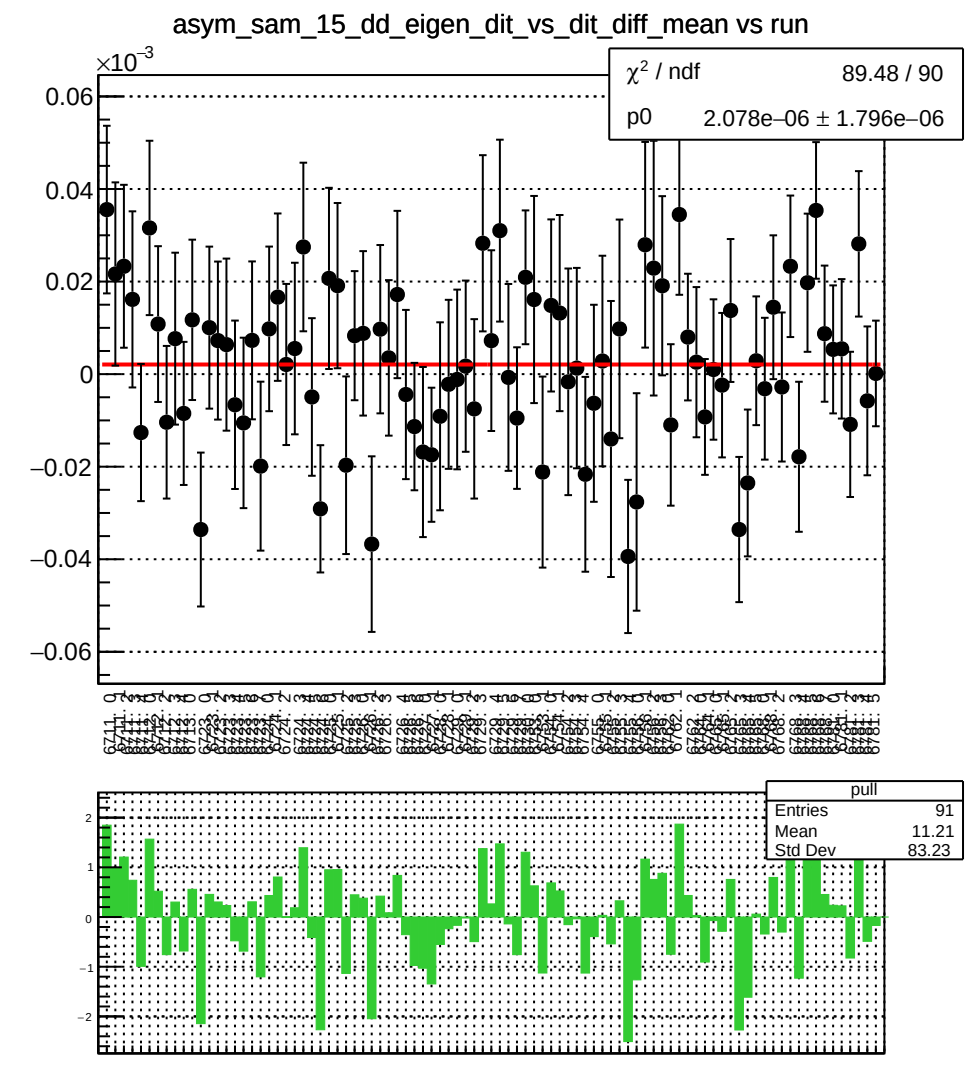

pull1D
Entries 91
Mean 0.03999
Std Dev 1.013

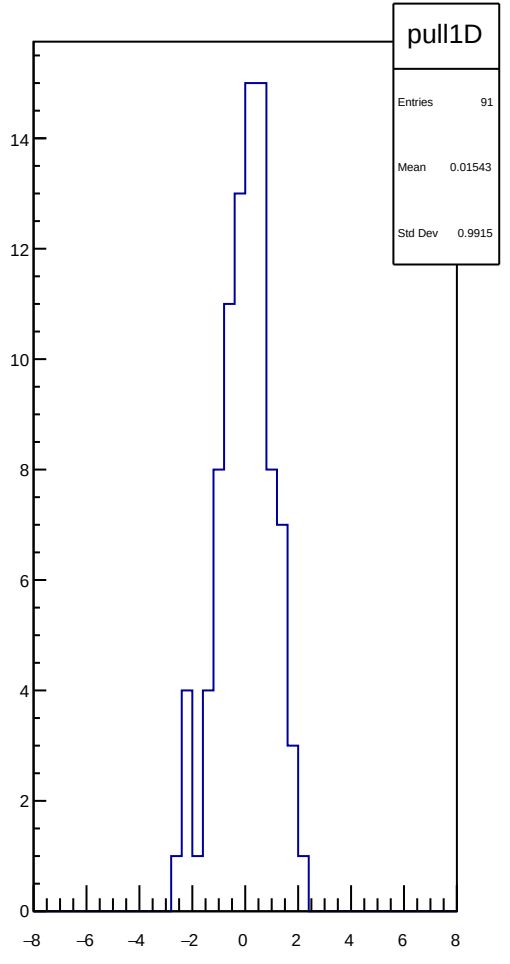

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.07e+05 / 90
p0 36.4 ± 0.02794
60
55
50
45
40
35
30
25
20

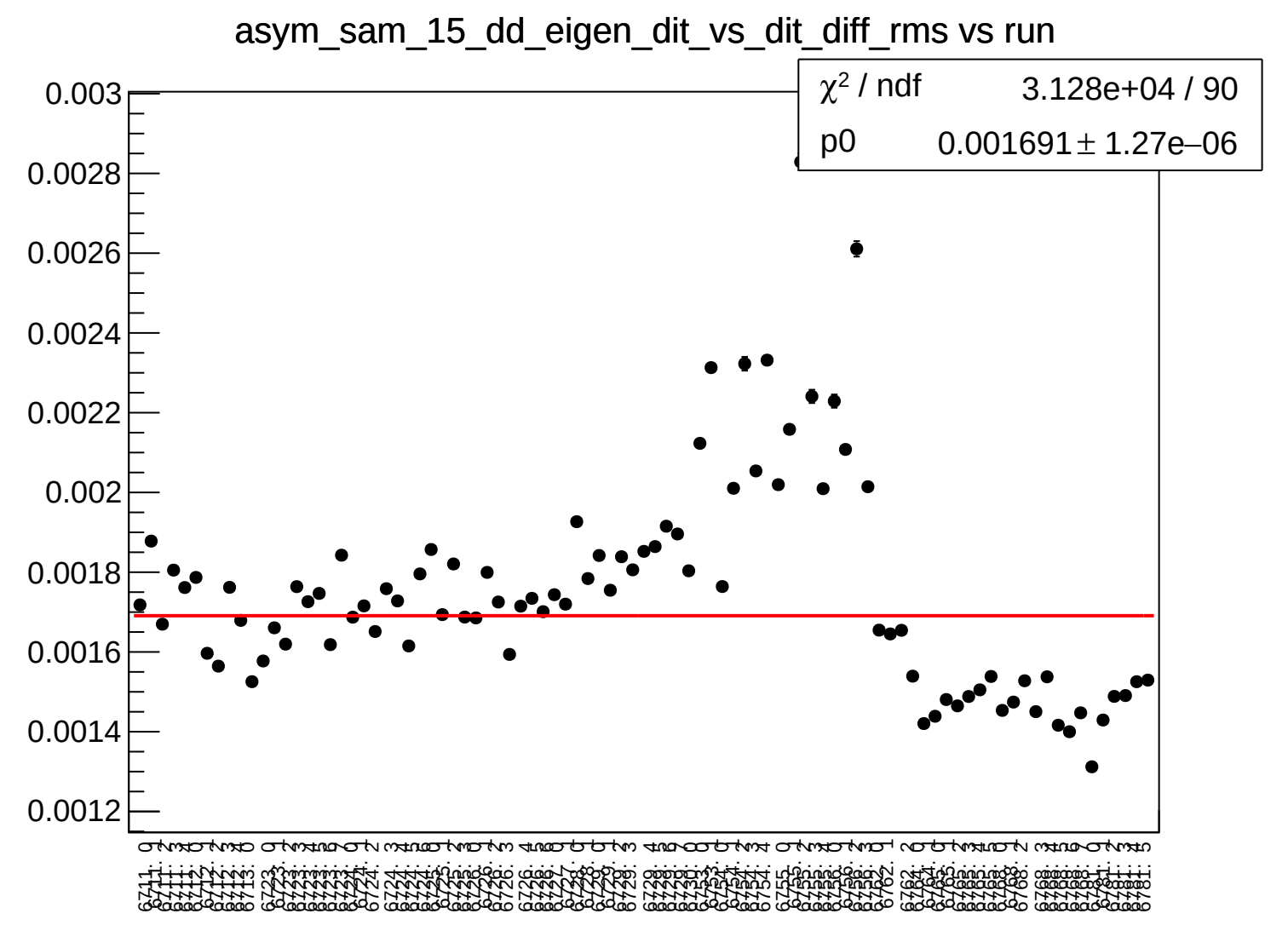

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.49 / 90
p0 0.01431± 0.03951
pull
Entries 91
Mean 113.8
Std Dev 7.972

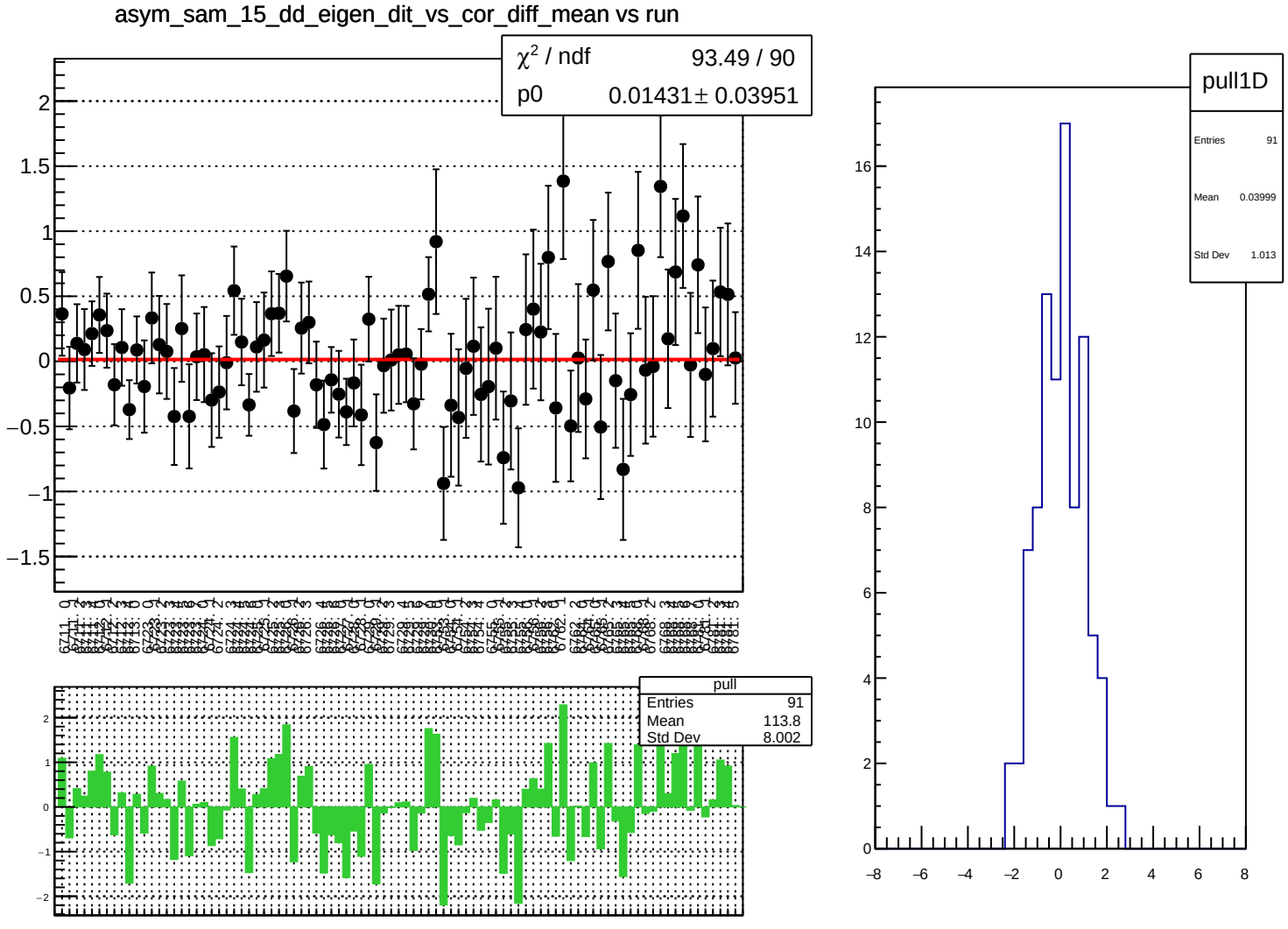

pull1D
Entries 91
Mean 0.03999
Std Dev 1.013

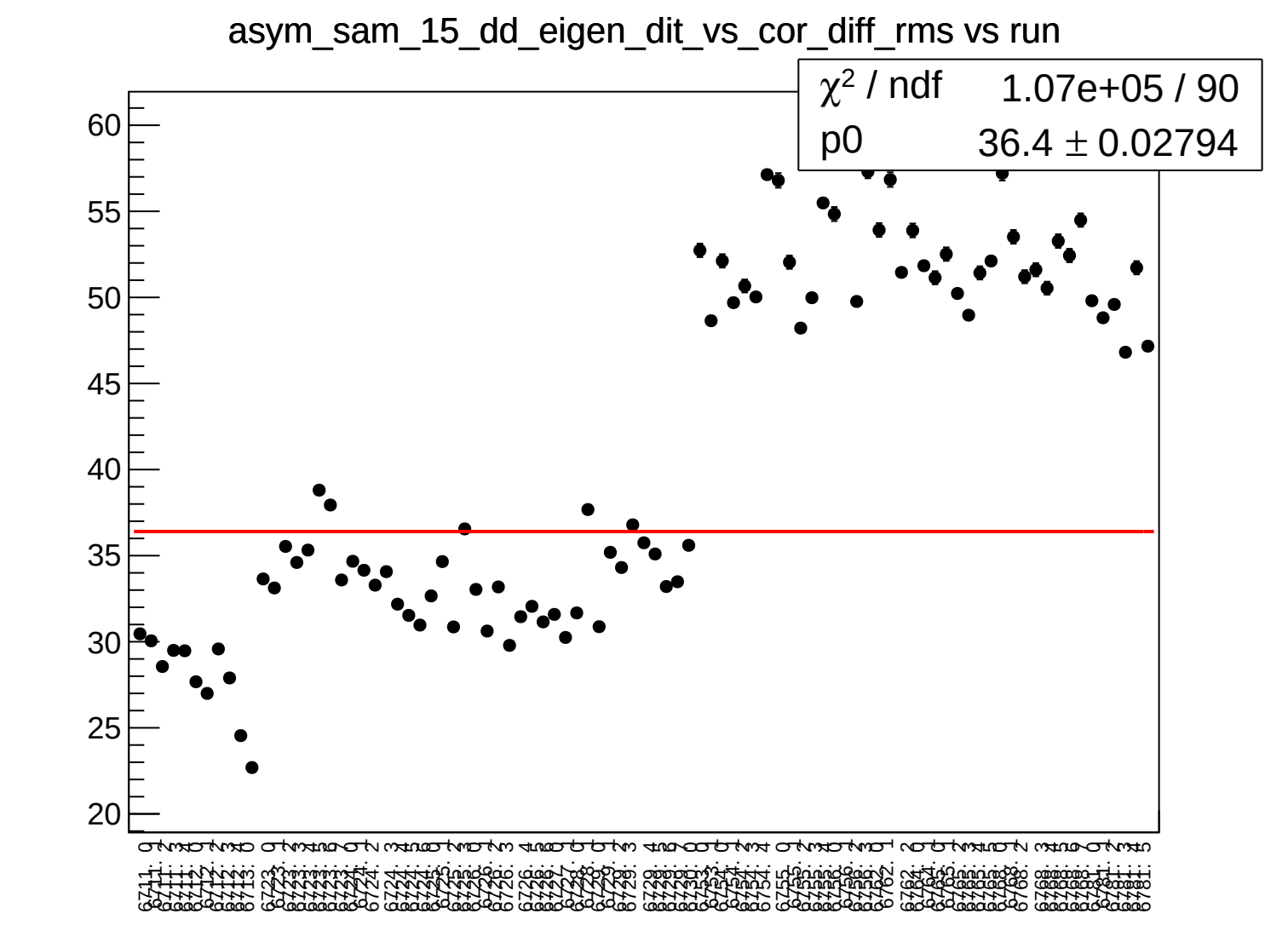

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.07e+05 / 90
p0 36.4 ± 0.02794
60
55
50
45
40
35
30
25
20

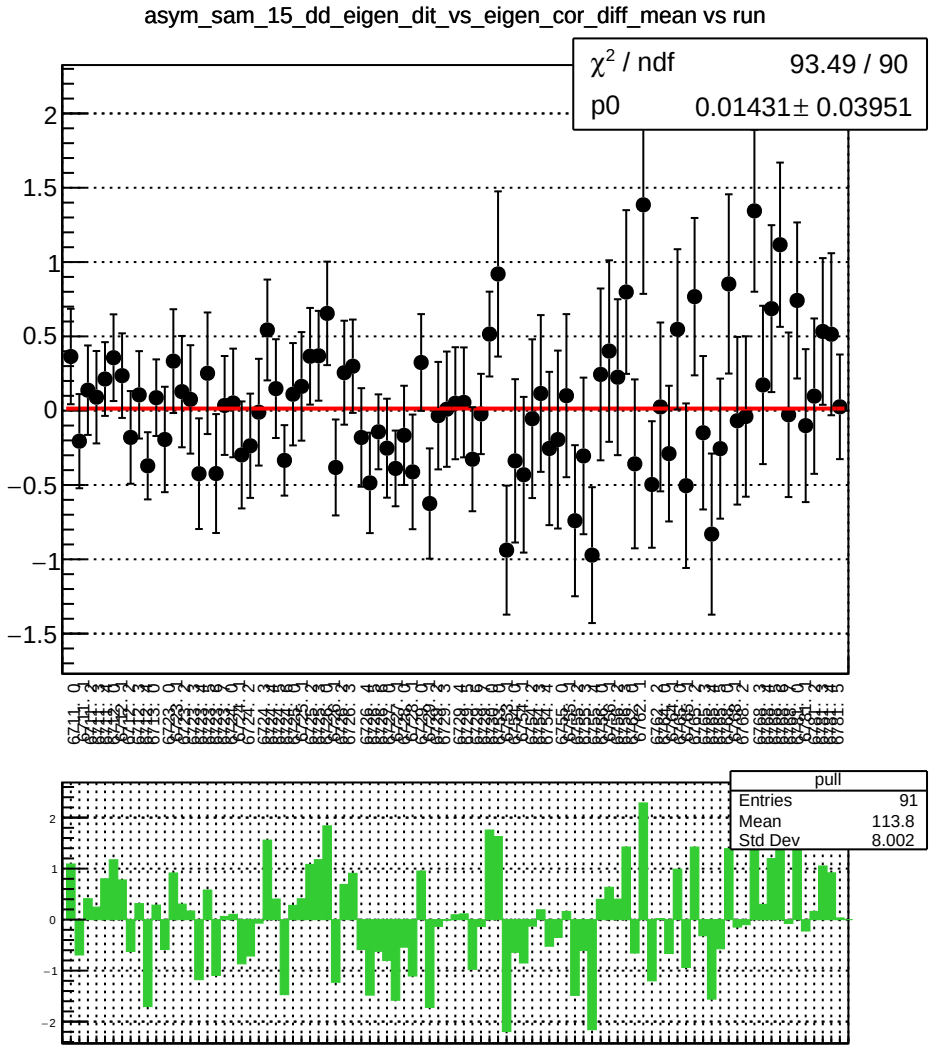

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.48 / 90
p0 2.078e−06 ± 1.796e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 11.21
Std Dev 83.23
2
1
0
−1
−2

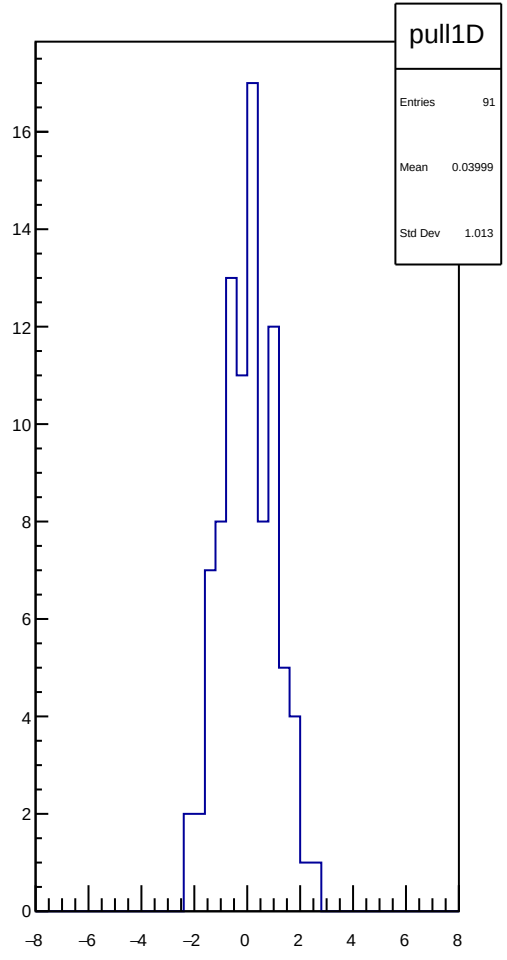

pull1D
Entries 91
Mean 0.01543
Std Dev 0.9915
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

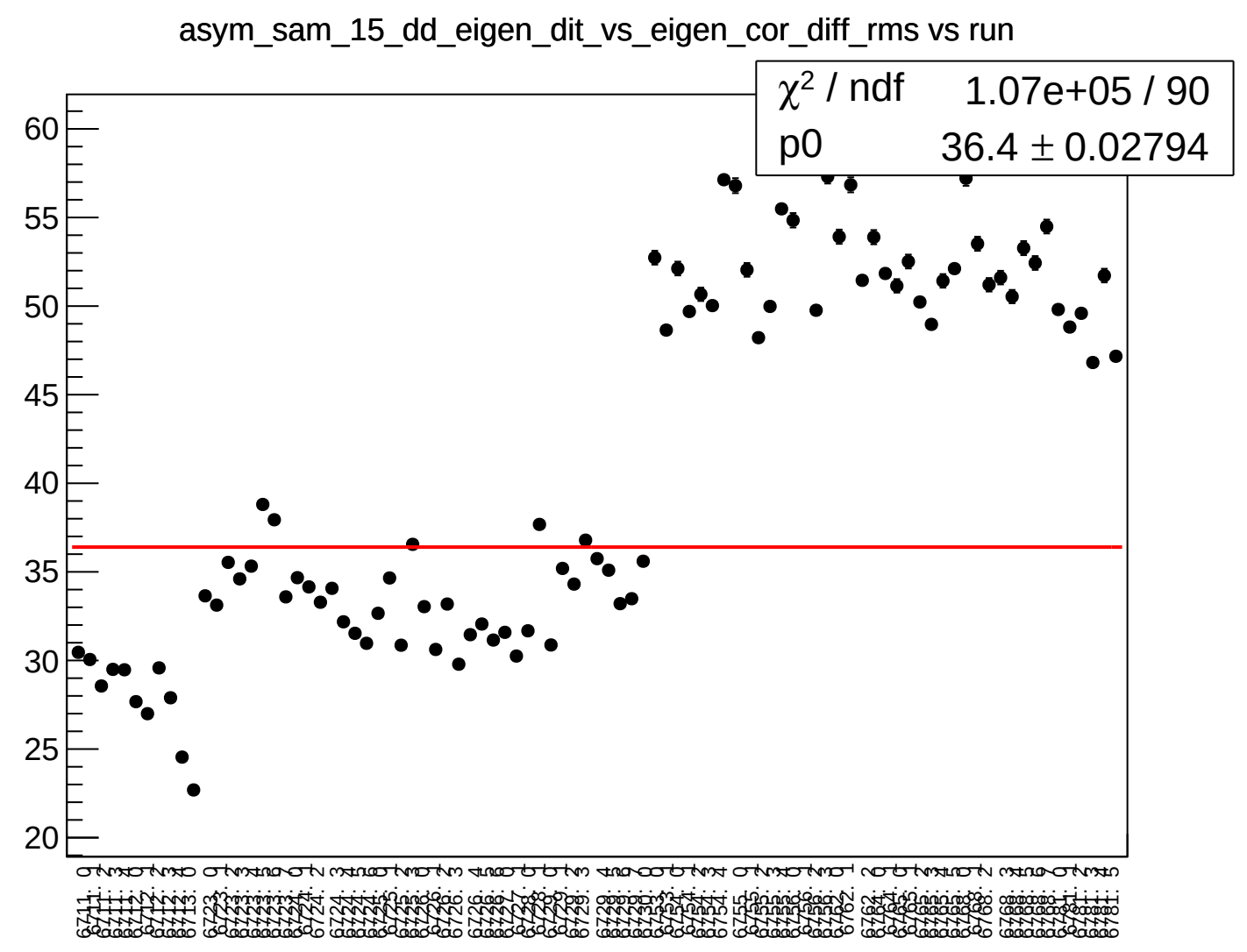

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.128e+04 / 90
p0 0.001691 ± 1.27e–06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

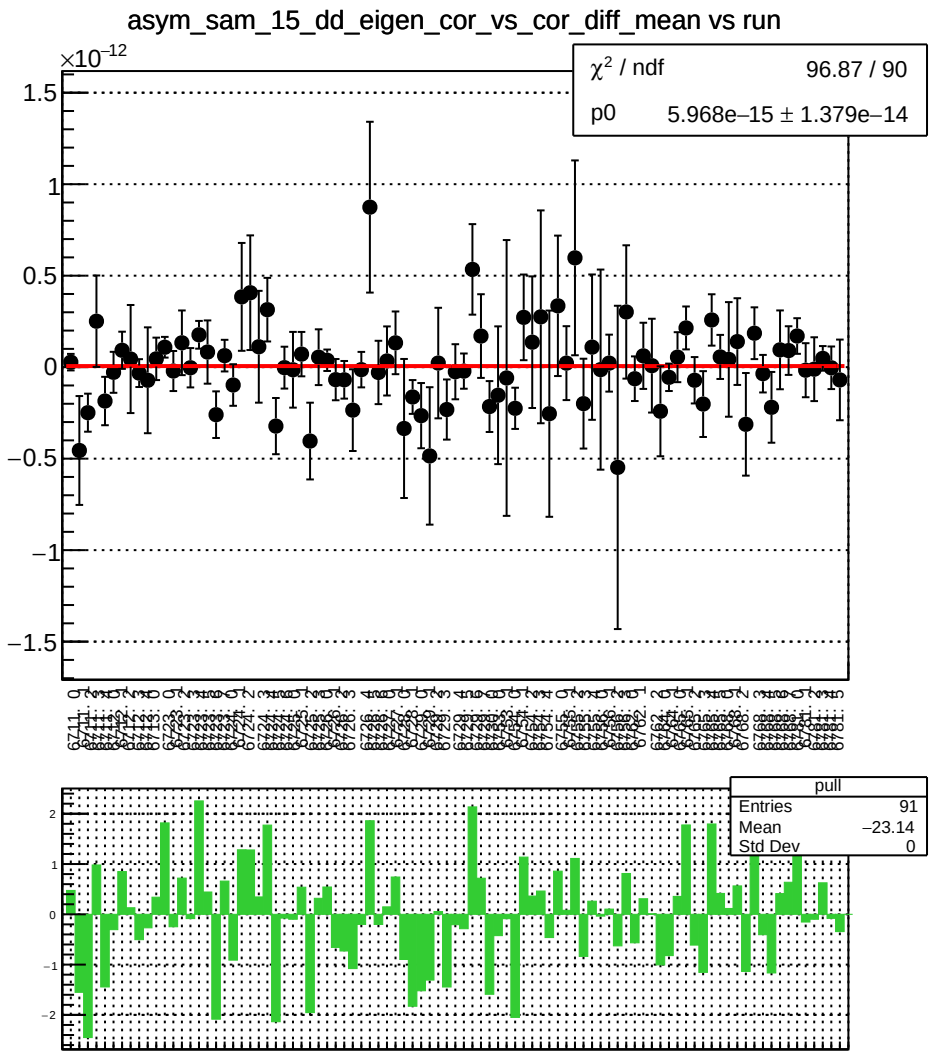

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.49 / 90
p0 0.01431± 0.03951
pull
Entries 91
Mean 113.8
Std Dev 8.002
pull1D
Entries 91
Mean 0.03999
Std Dev 1.013

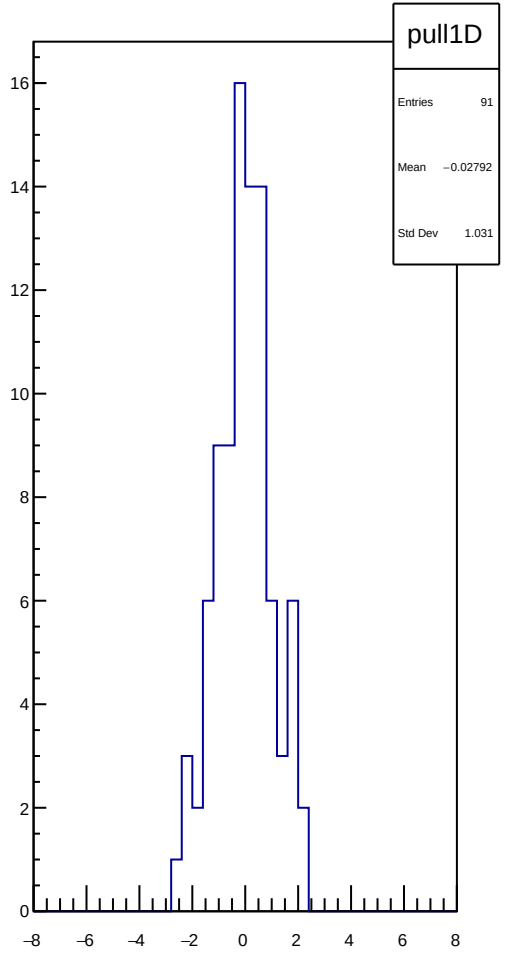

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.07e+05 / 90
p0 36.4 ± 0.02794
60
55
50
45
40
35
30
25
20

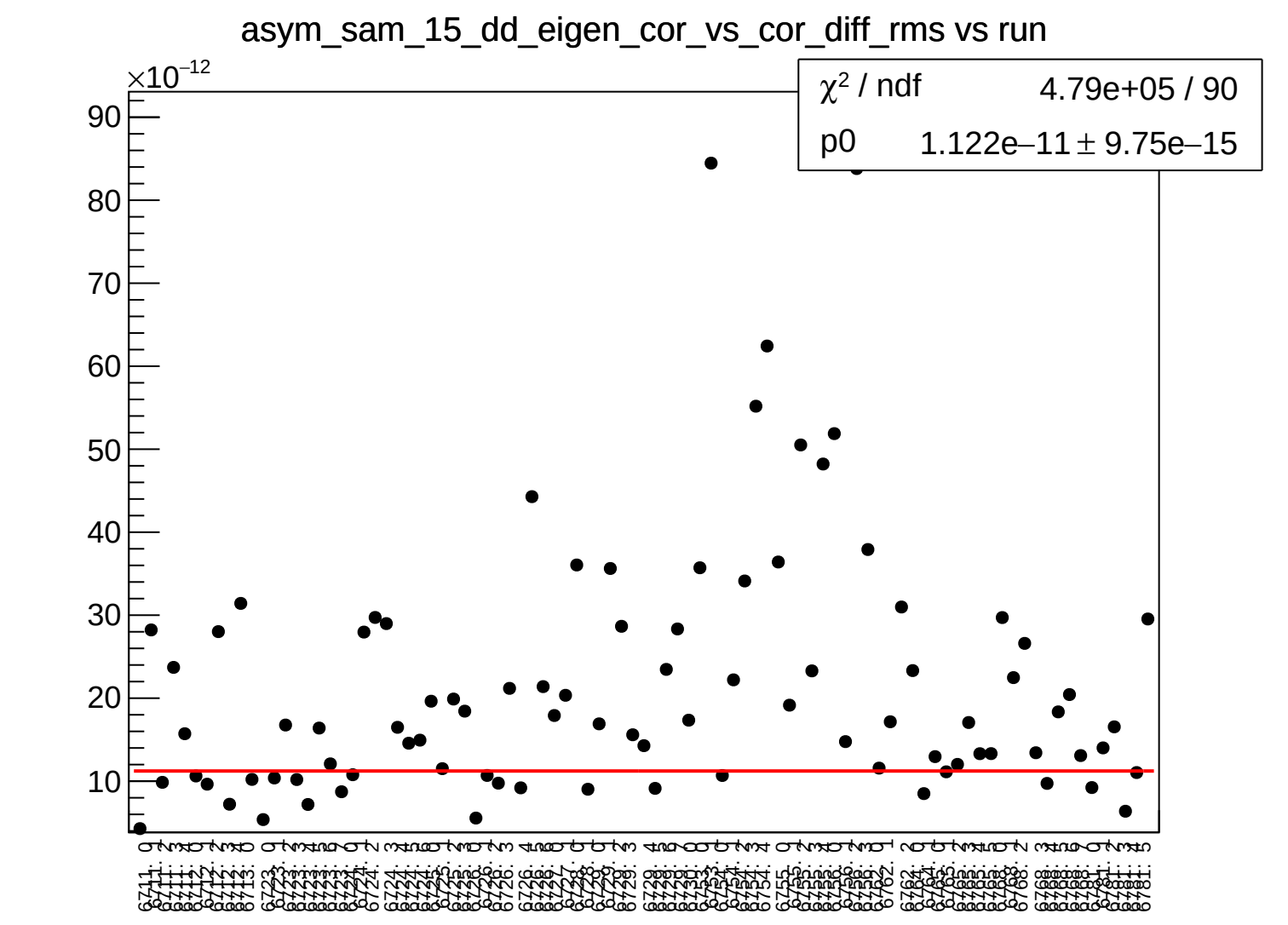

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.49 / 90
p0 0.01431± 0.03951
pull
Entries 91
Mean 113.8
Std Dev 8.002

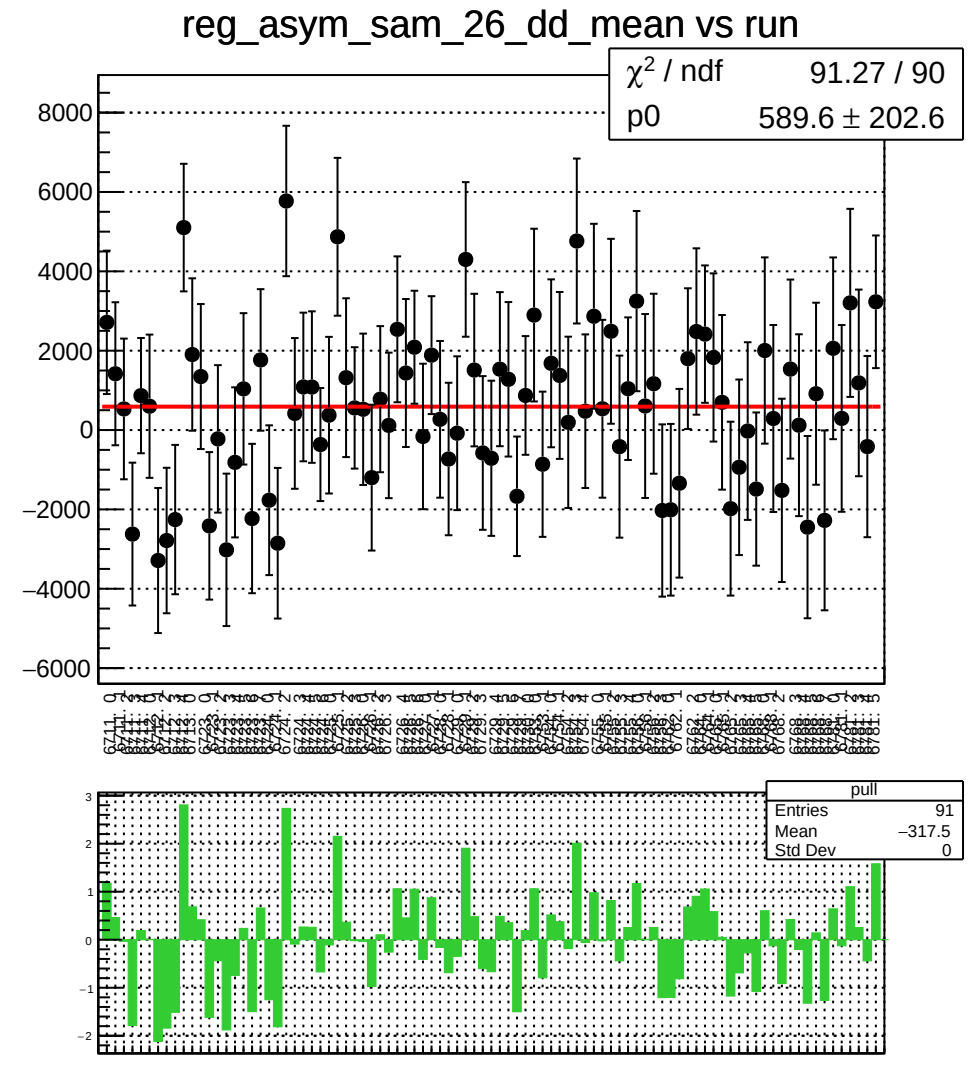

pull1D
Entries 91
Mean 0.03999
Std Dev 1.013

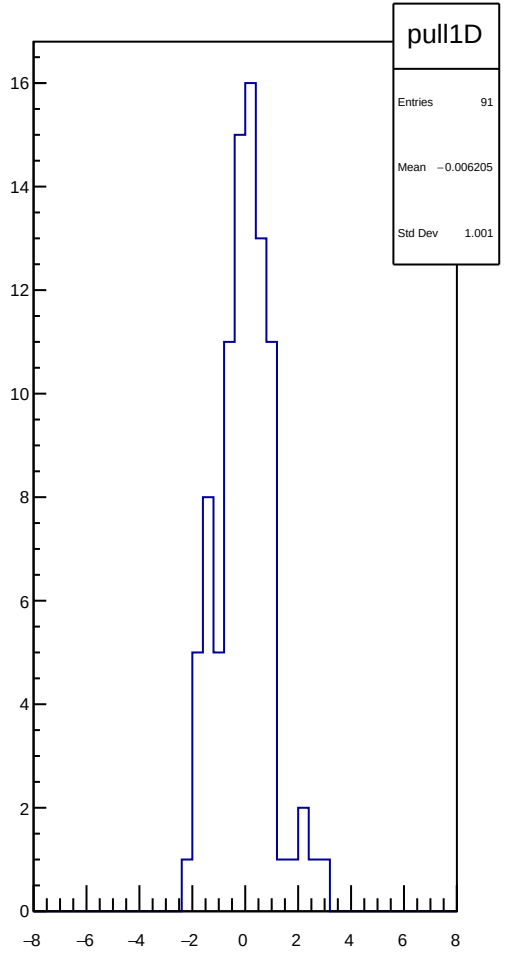

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.07e+05 / 90
p0 36.4 ± 0.02794
60
55
50
45
40
35
30
25
20

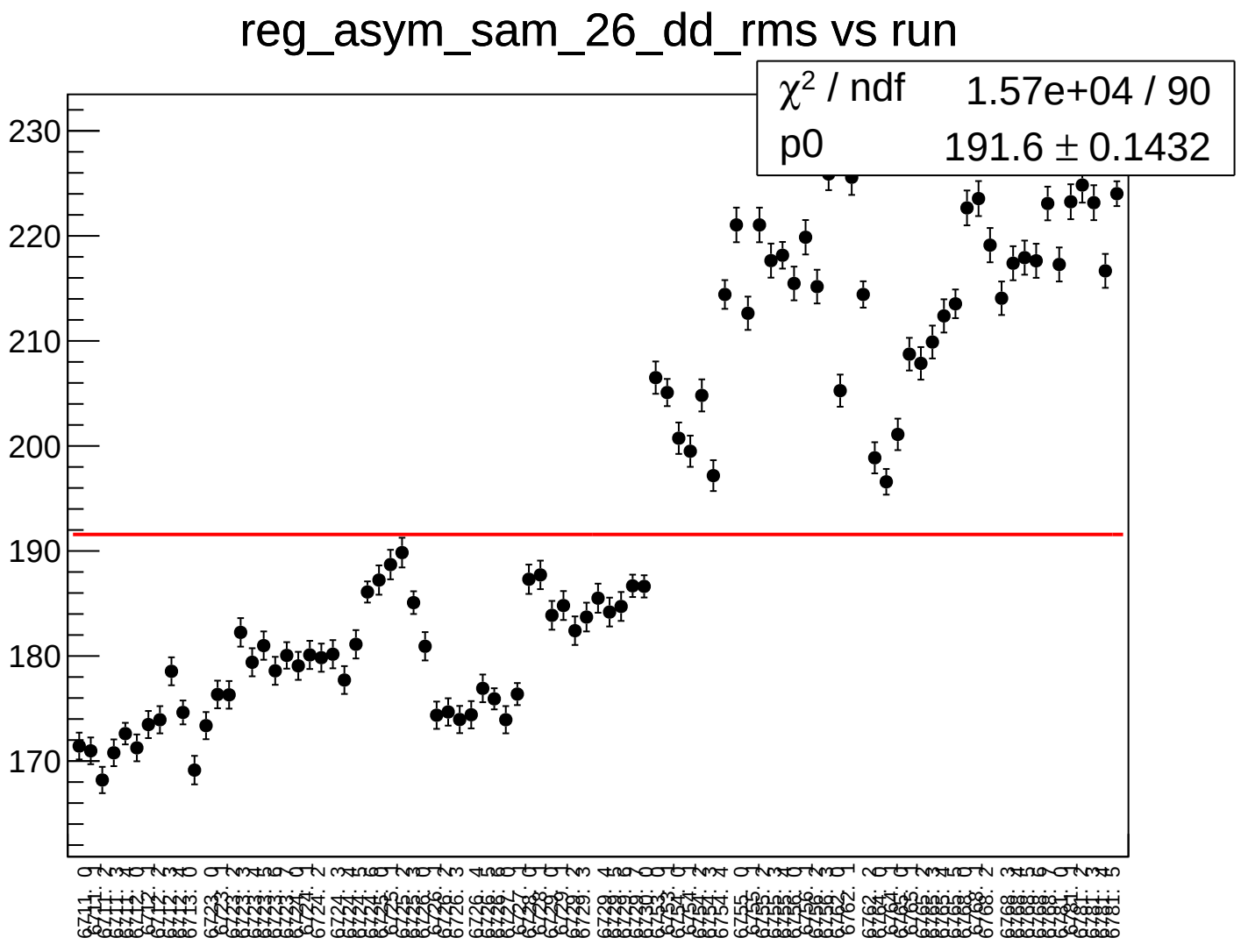

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.87 / 90
p0 5.968e−15 ± 1.379e−14
pull
Entries 91
Mean −23.14
Std Dev 0

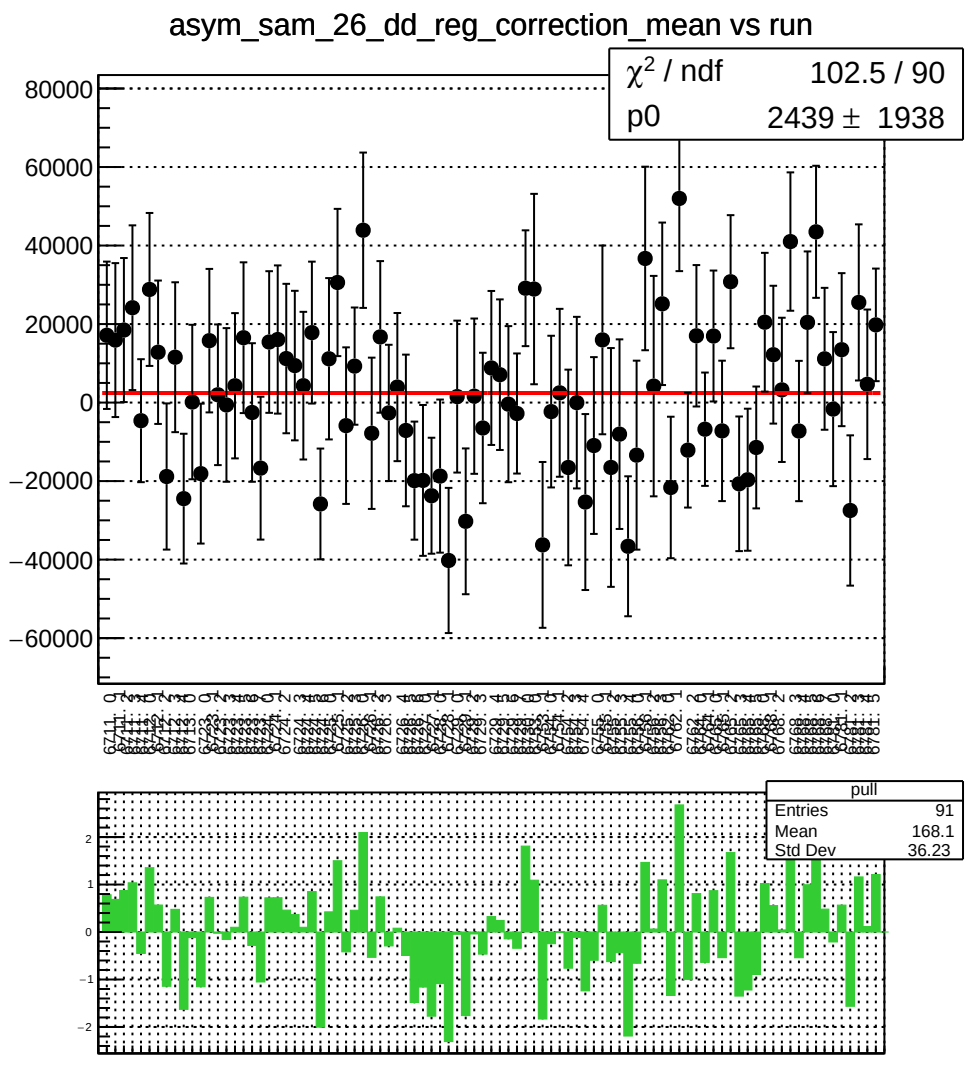

pull1D
Entries 91
Mean −0.02792
Std Dev 1.031

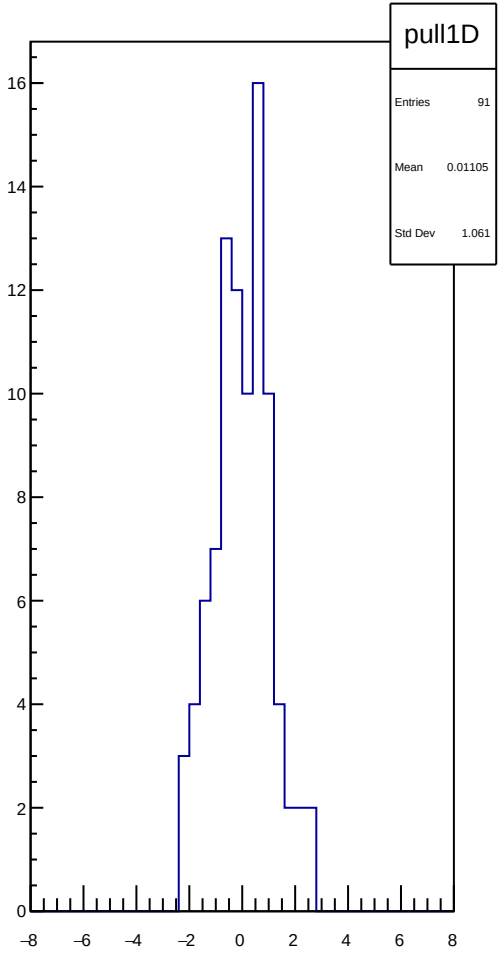

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.79e+05 / 90
p0 1.122e−11 ± 9.75e−15
90
80
70
60
50
40
30
20
10

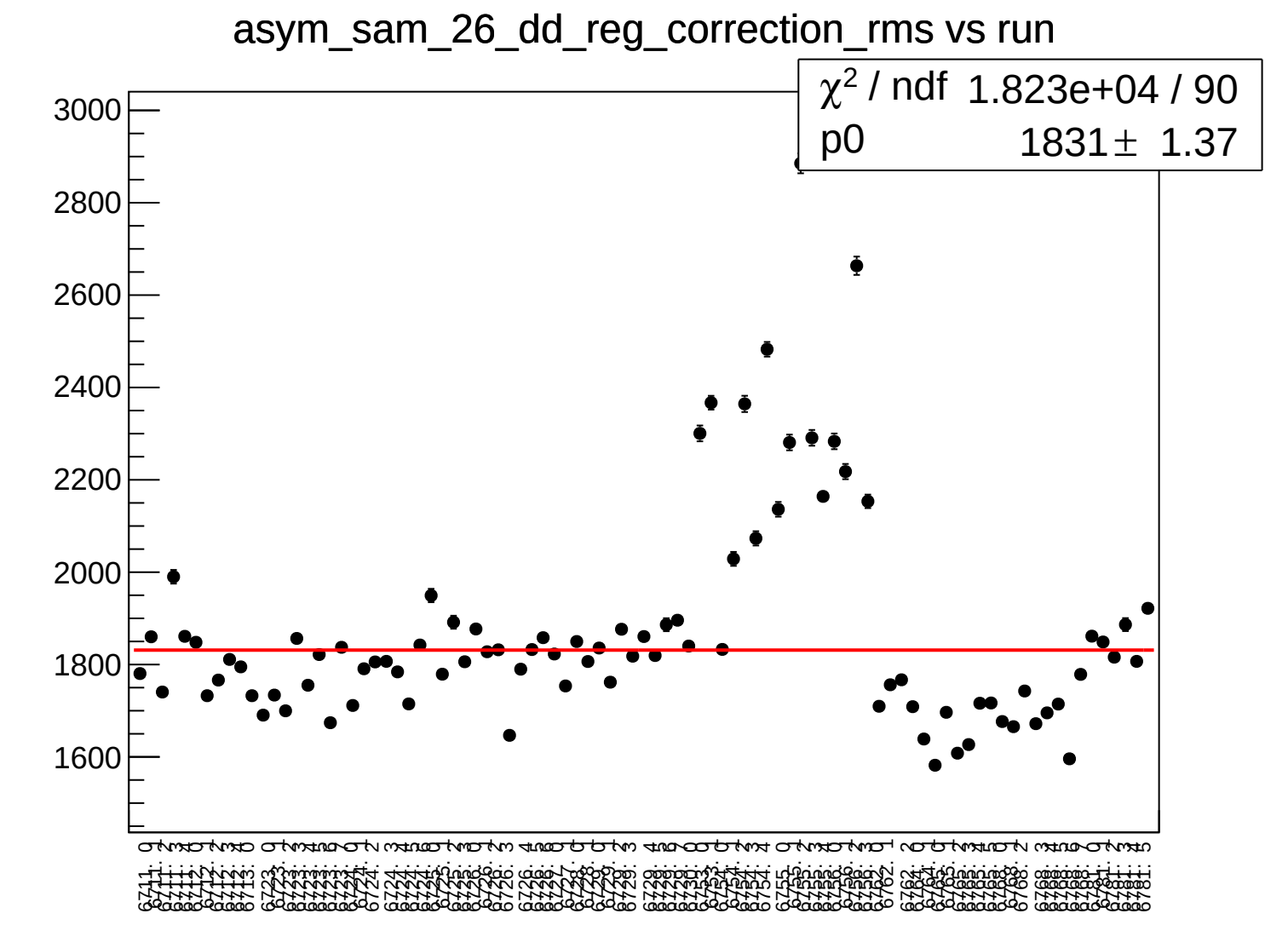

reg_asym_sam_26_dd_mean vs run
χ² / ndf 91.27 / 90
p0 589.6 ± 202.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −317.5
Std Dev 0
3
2
1
0
−1
−2

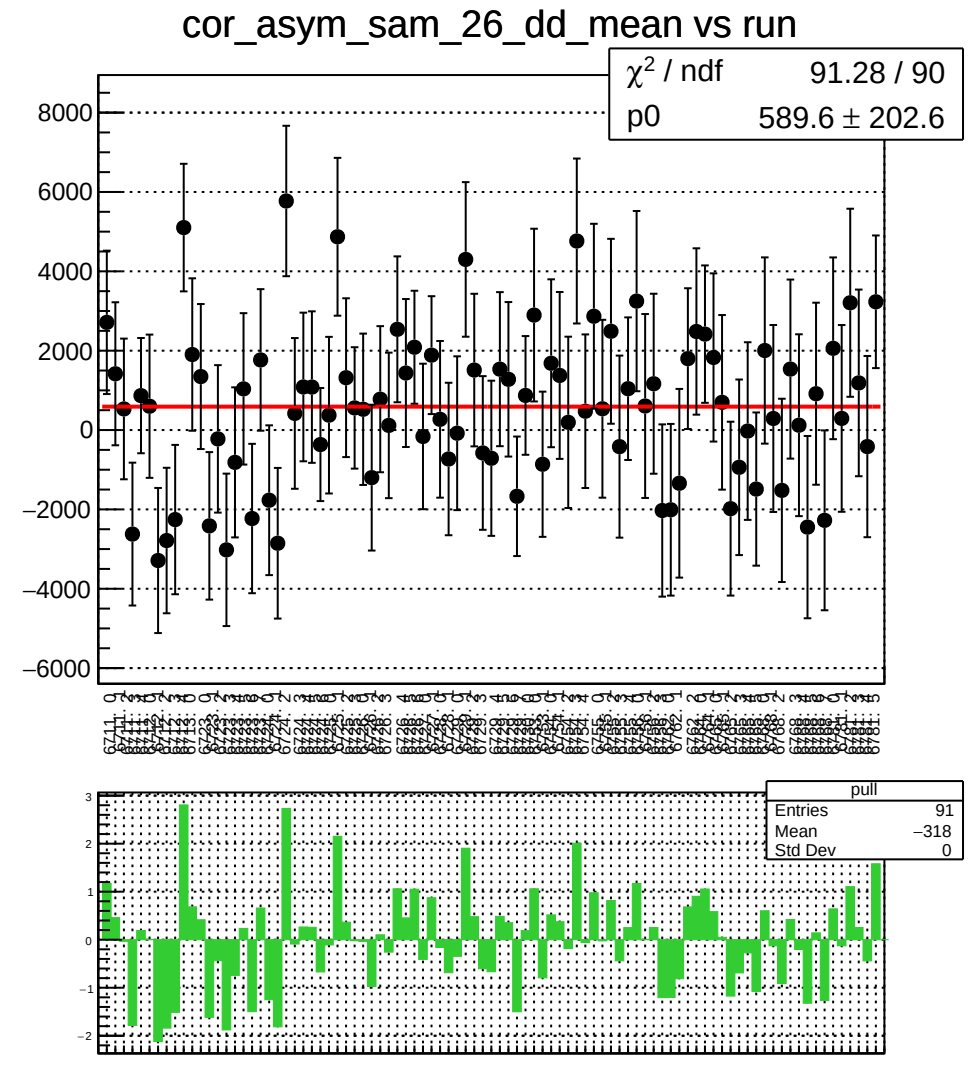

pull1D
Entries 91
Mean −0.006205
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

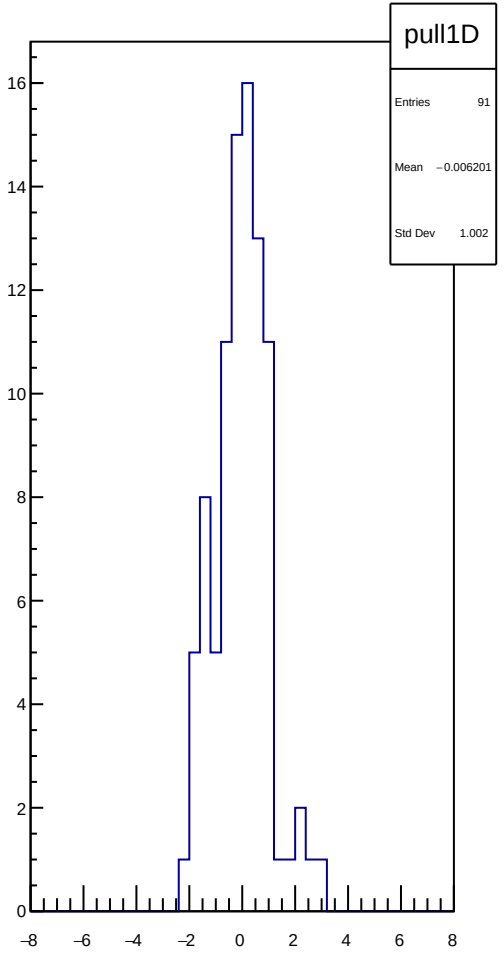

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1.57e+04 / 90
p0 191.6 ± 0.1432
230
220
210
200
190
180
170

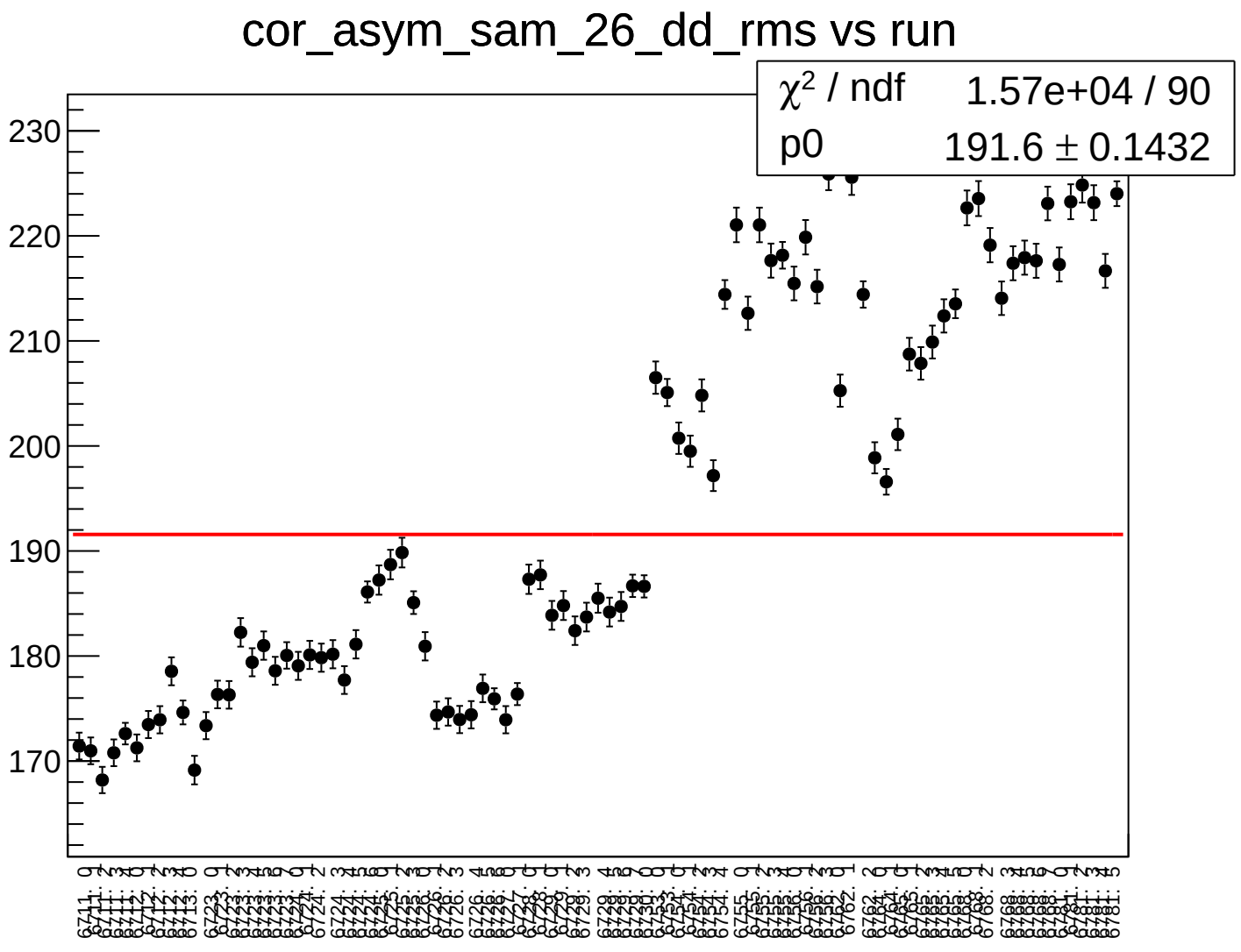

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 102.5 / 90
p0 2439 ± 1938
pull
Entries 91
Mean 168.1
Std Dev 36.23

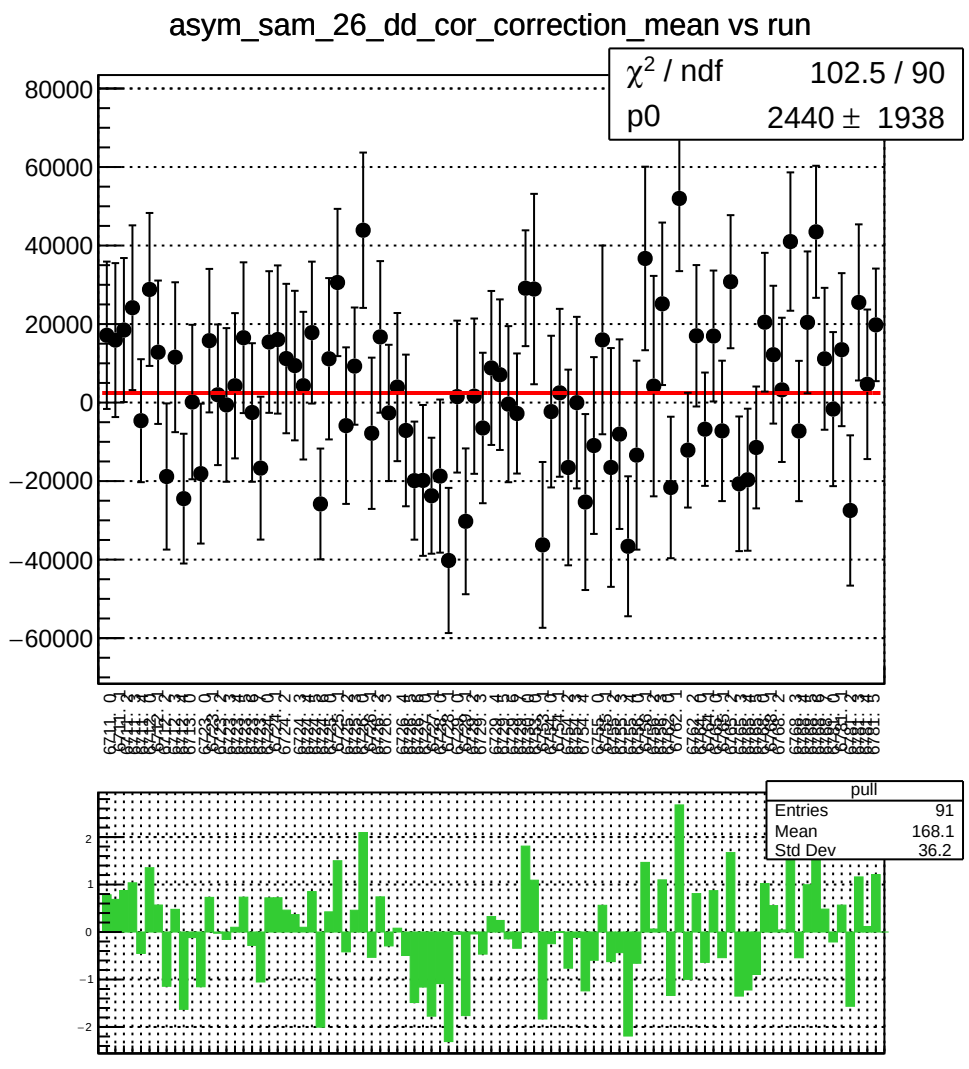

pull1D
Entries 91
Mean 0.01105
Std Dev 1.061

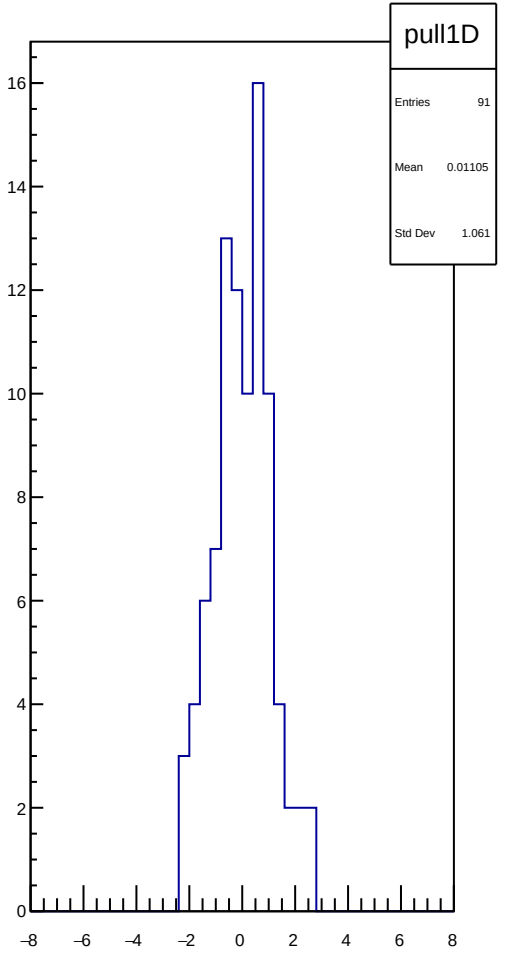

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 1.823e+04 / 90
p0 1831 ± 1.37
3000
2800
2600
2400
2200
2000
1800
1600

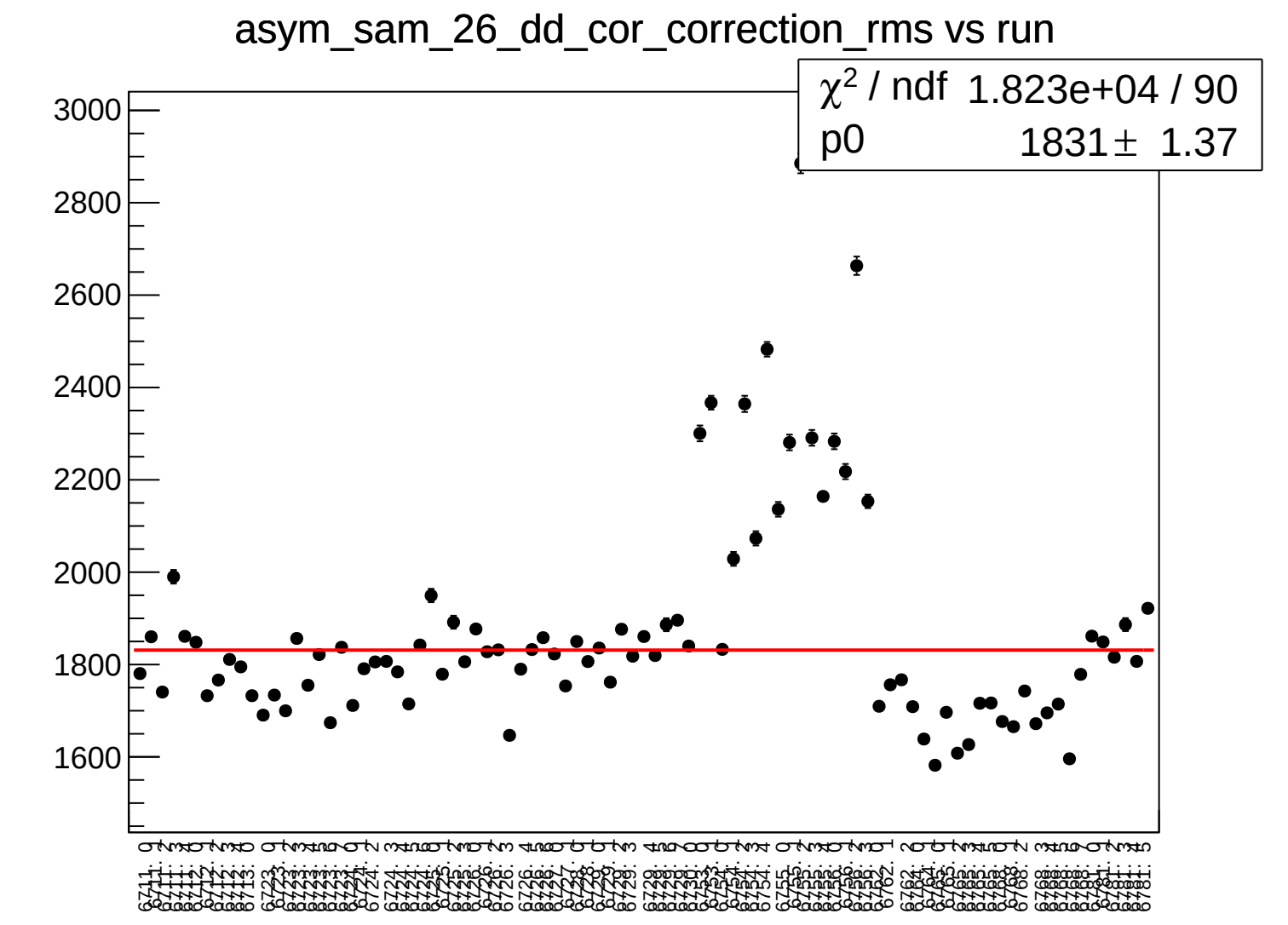

cor_asym_sam_26_dd_mean vs run
χ² / ndf 91.28 / 90
p0 589.6 ± 202.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean −318
Std Dev 0
3
2
1
0
−1
−2

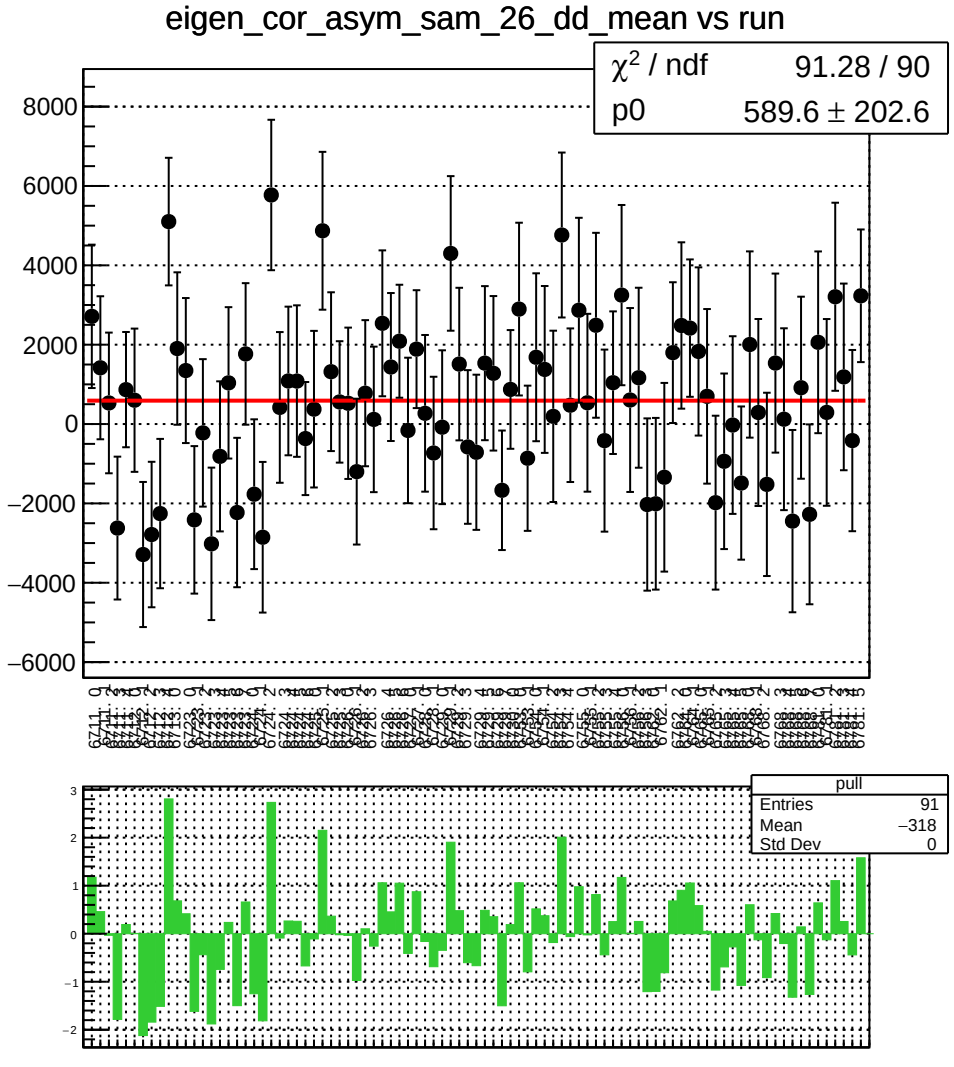

pull1D
Entries 91
Mean −0.006201
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

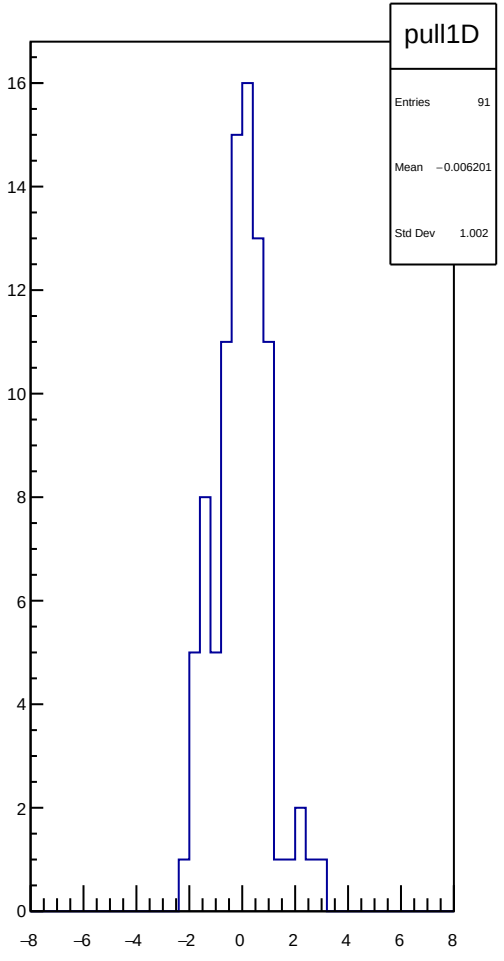

cor_asym_sam_26_dd_rms vs run
χ² / ndf 1.57e+04 / 90
p0 191.6 ± 0.1432
230
220
210
200
190
180
170

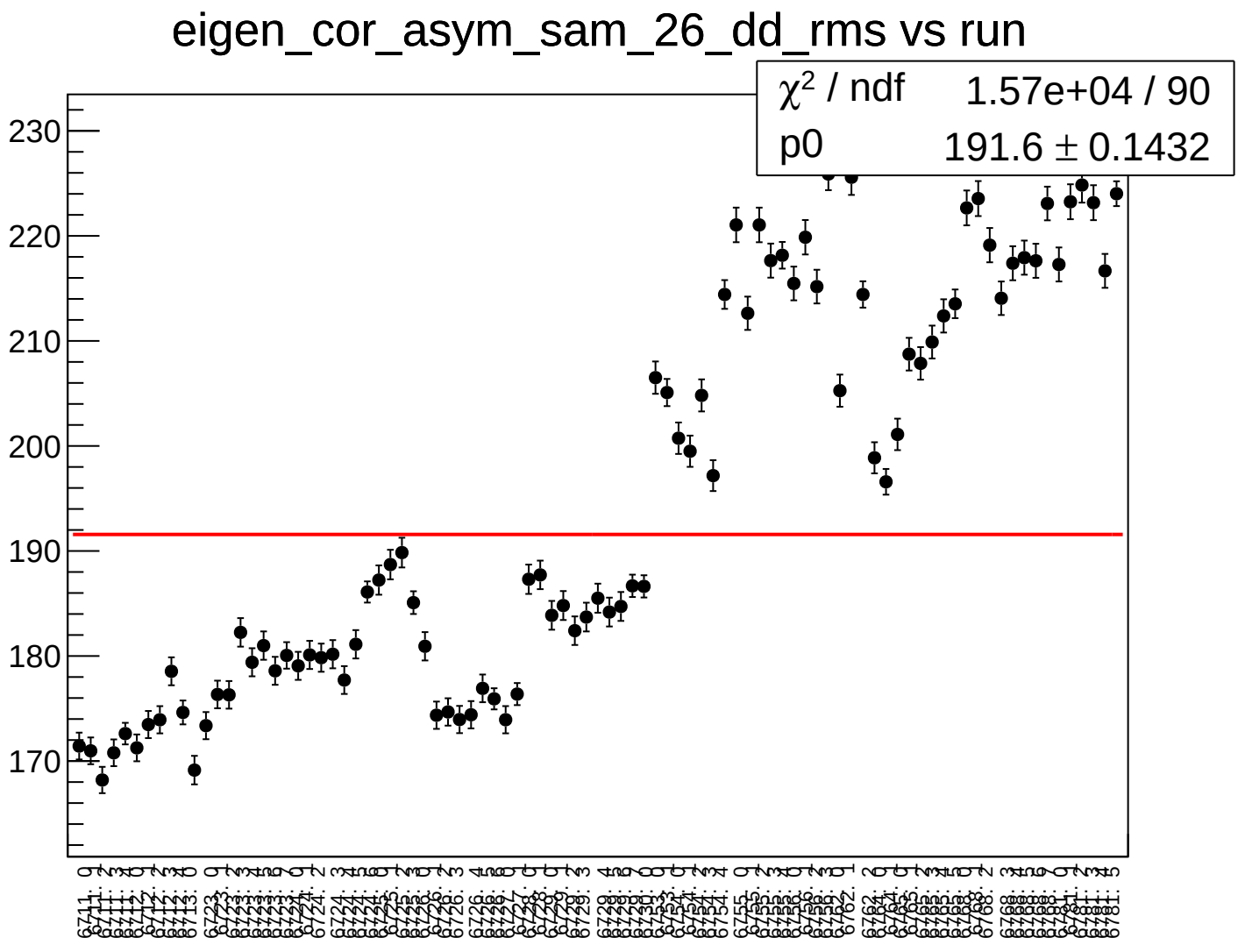

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 102.5 / 90
p0 2440 ± 1938
pull
Entries 91
Mean 168.1
Std Dev 36.2

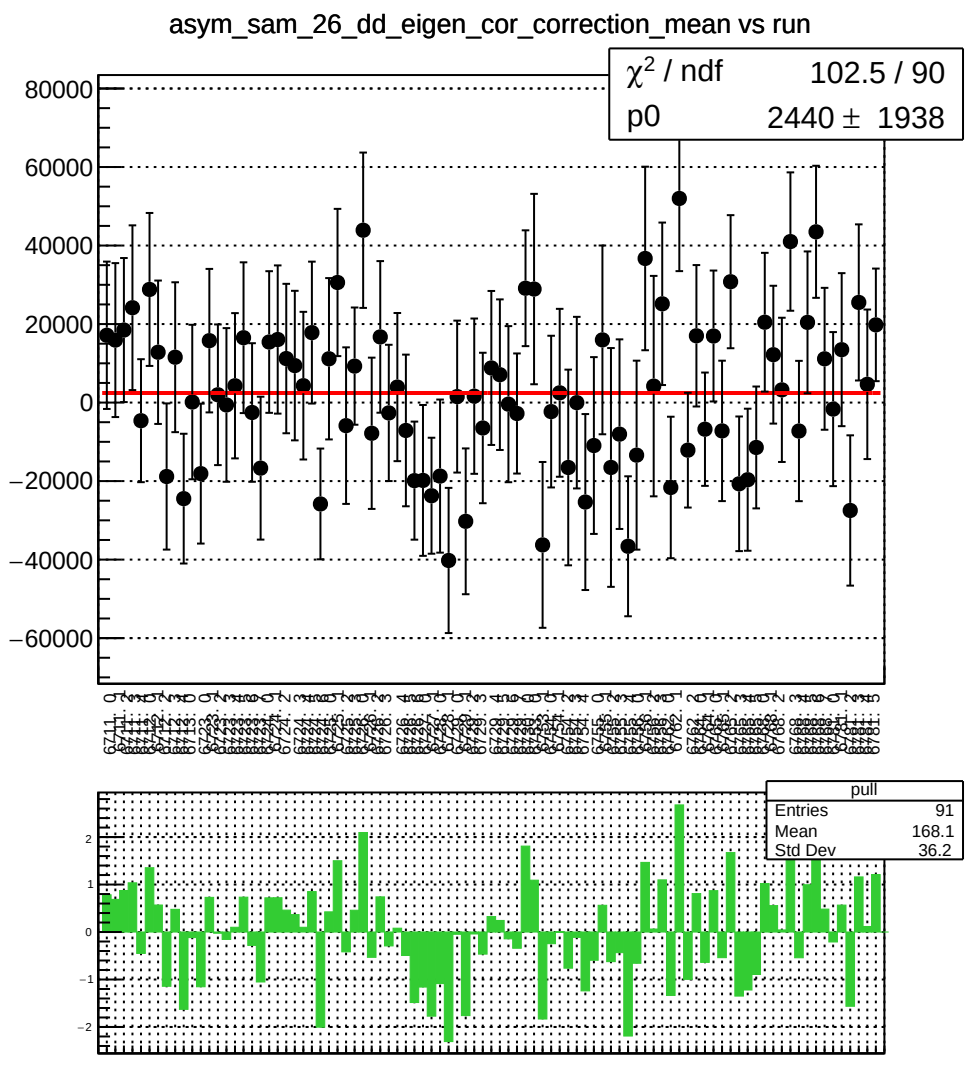

pull1D
Entries 91
Mean 0.01105
Std Dev 1.061

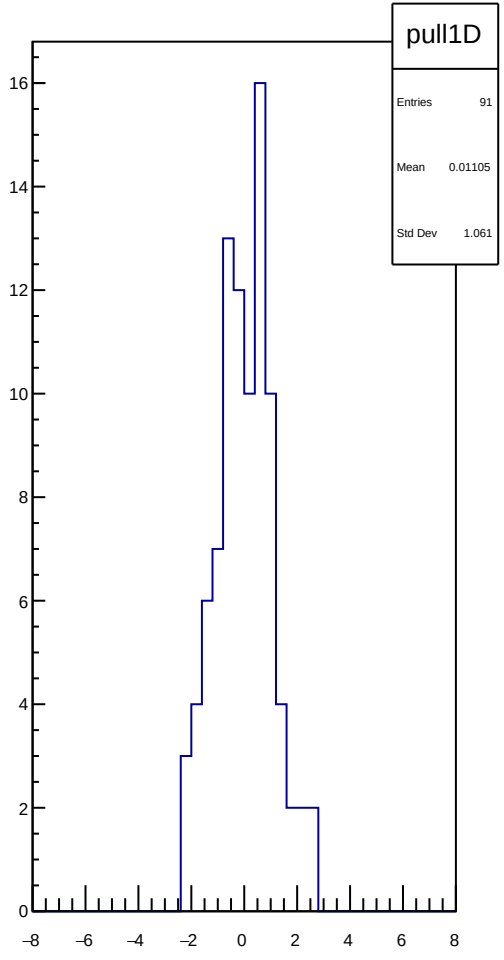

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 1.823e+04 / 90
p0 1831 ± 1.37
3000
2800
2600
2400
2200
2000
1800
1600

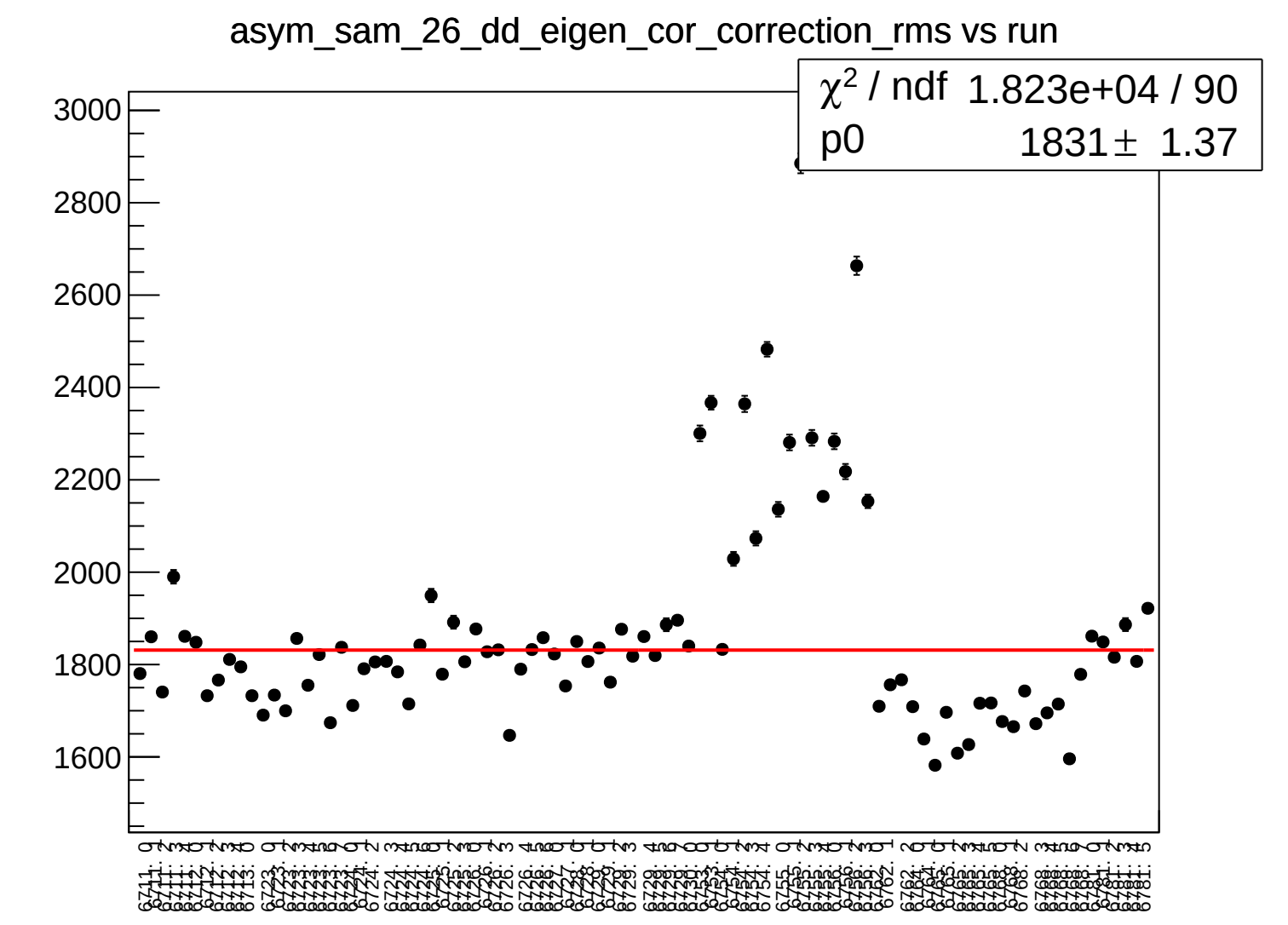

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 91.28 / 90
p0 589.6 ± 202.6
pull
Entries 91
Mean −318
Std Dev 0

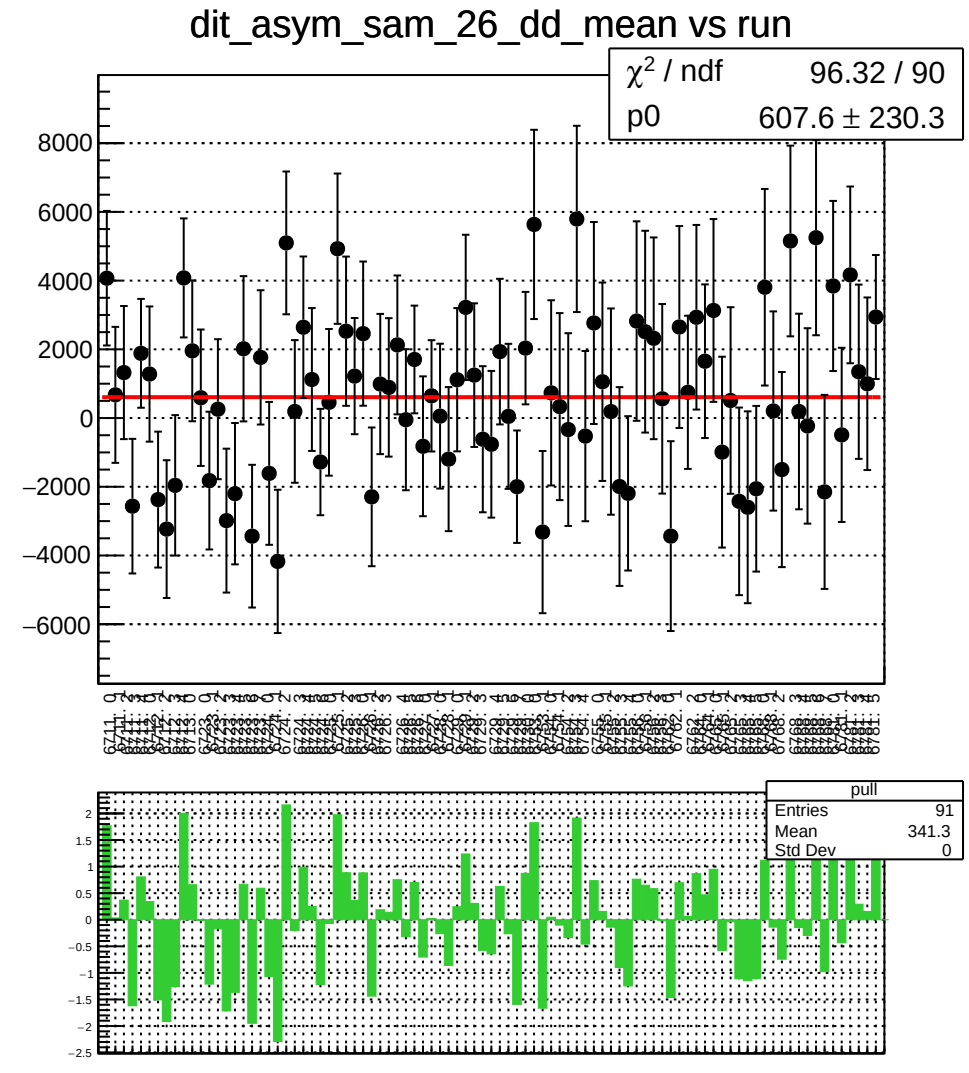

pull1D
Entries 91
Mean −0.006201
Std Dev 1.002

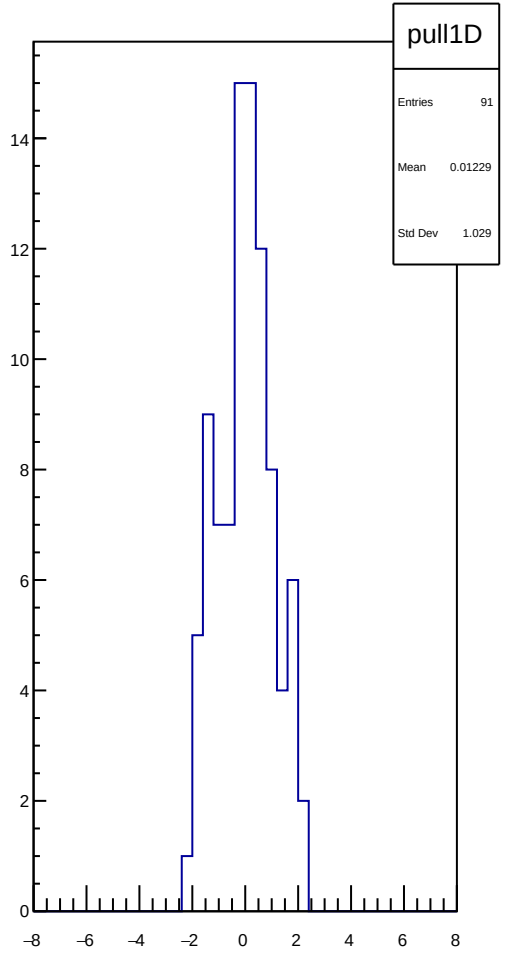

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 1.57e+04 / 90
p0 191.6 ± 0.1432
230
220
210
200
190
180
170


asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 102.5 / 90
p0 2440 ± 1938
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 91
Mean 168.1
Std Dev 36.2
2
1
0
−1
−2

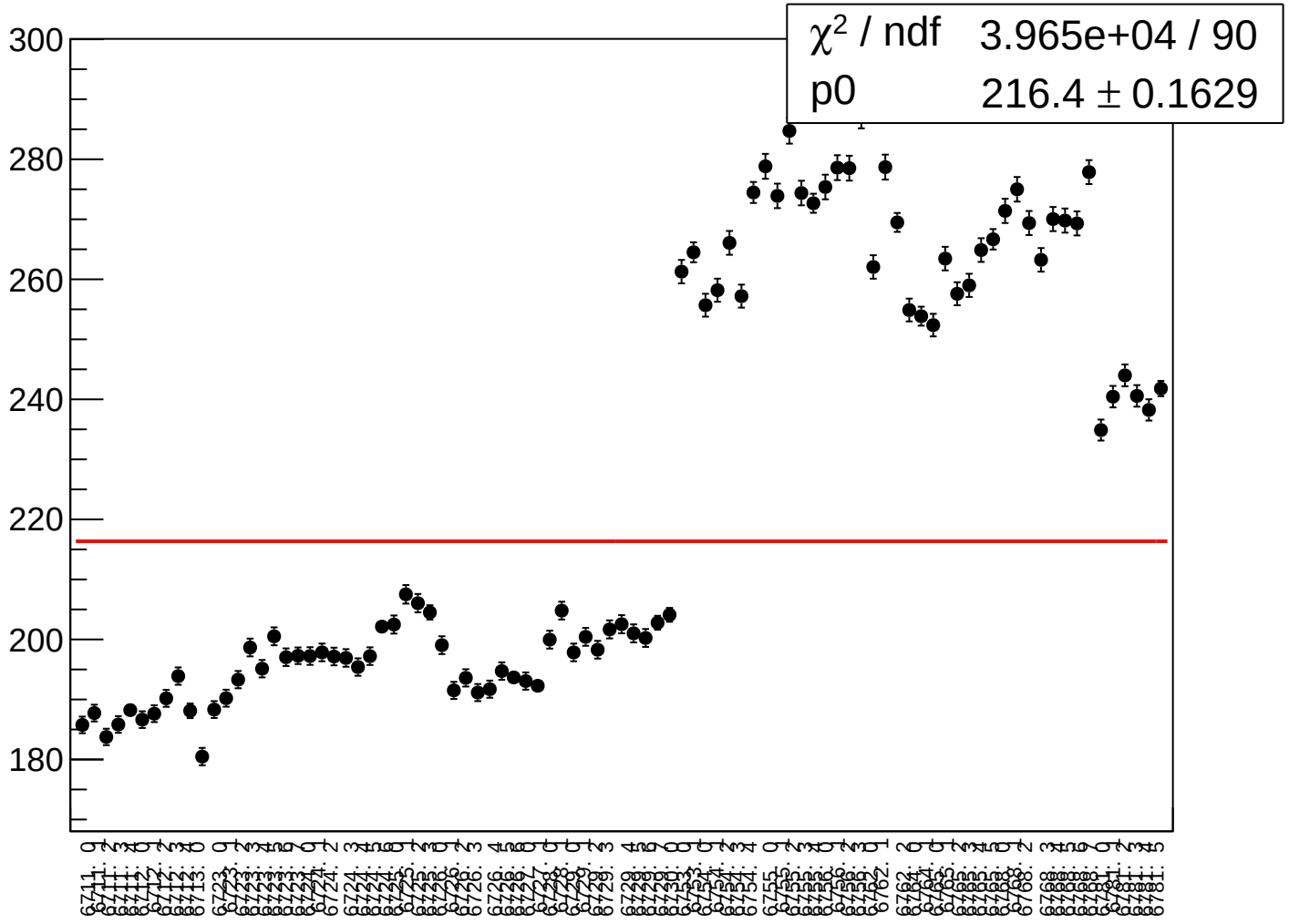

pull1D
Entries 91
Mean 0.01105
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

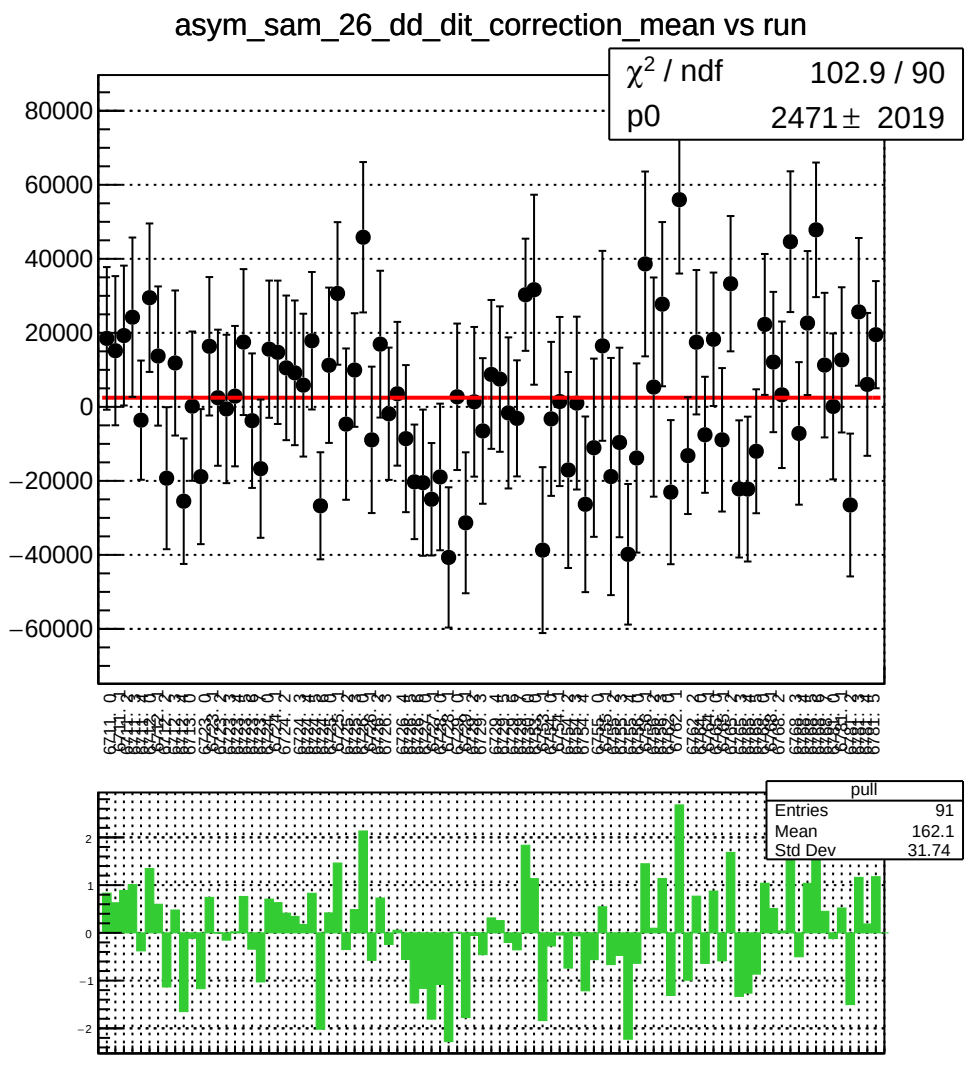

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.823e+04 / 90
p0 1831 ± 1.37
3000
2800
2600
2400
2200
2000
1800
1600

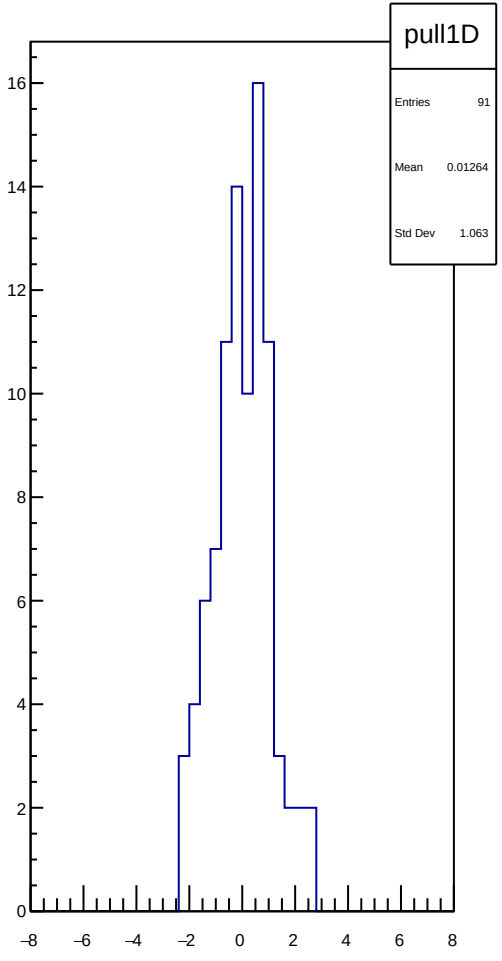

dit_asym_sam_26_dd_mean vs run
χ² / ndf 96.32 / 90
p0 607.6 ± 230.3
pull
Entries 91
Mean 341.3
Std Dev 0

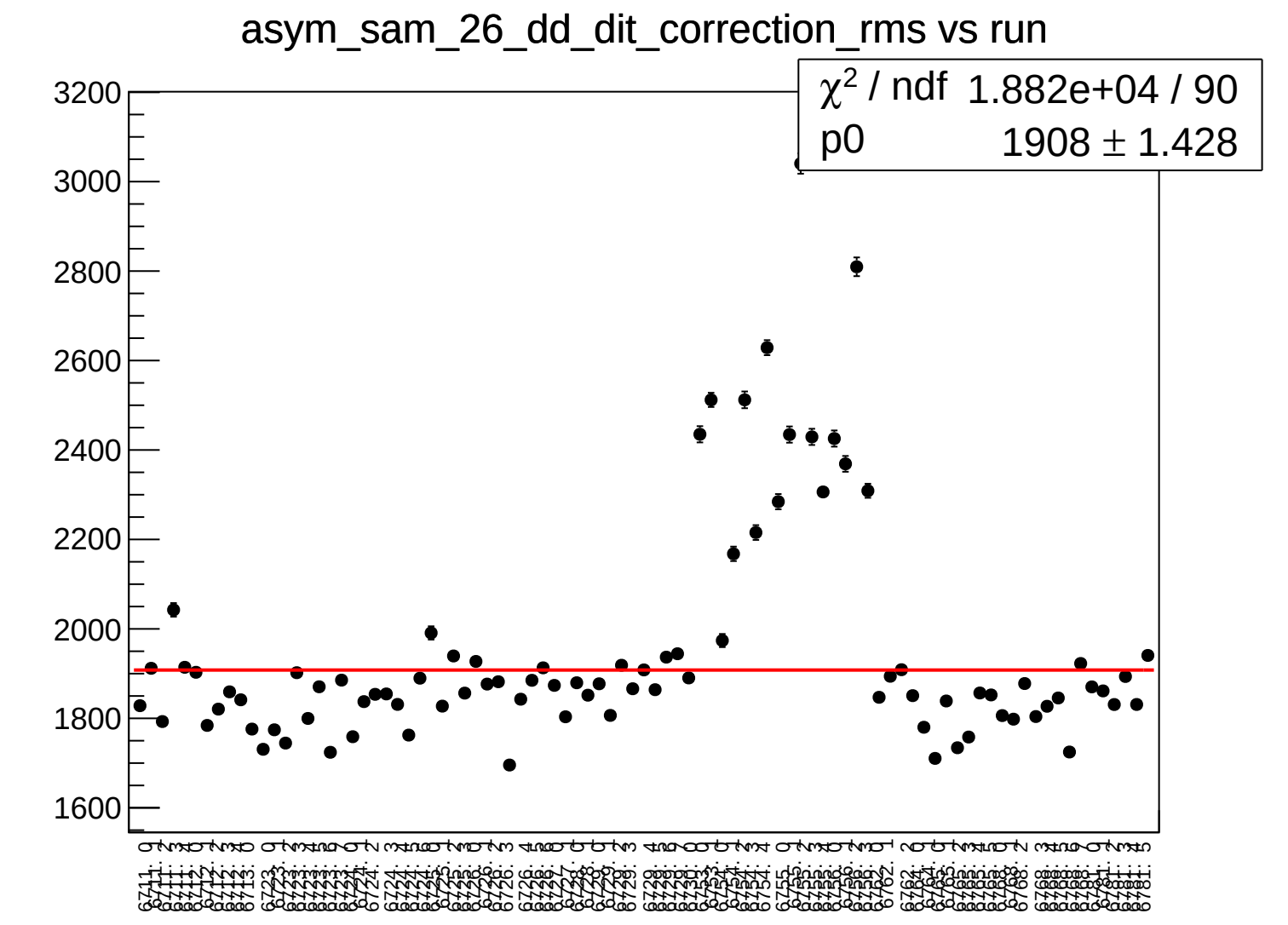

pull1D
Entries 91
Mean 0.01229
Std Dev 1.029

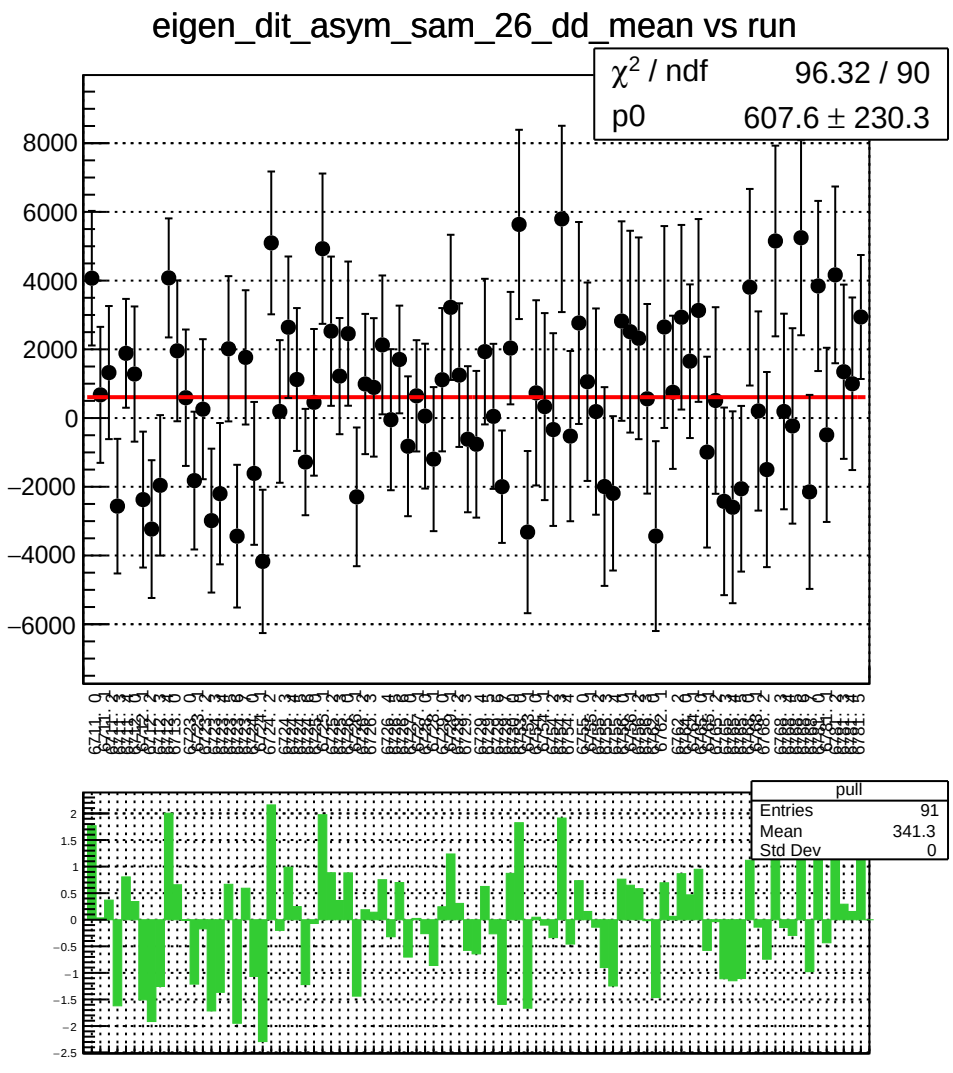
dit_asym_sam_26_dd_rms vs run

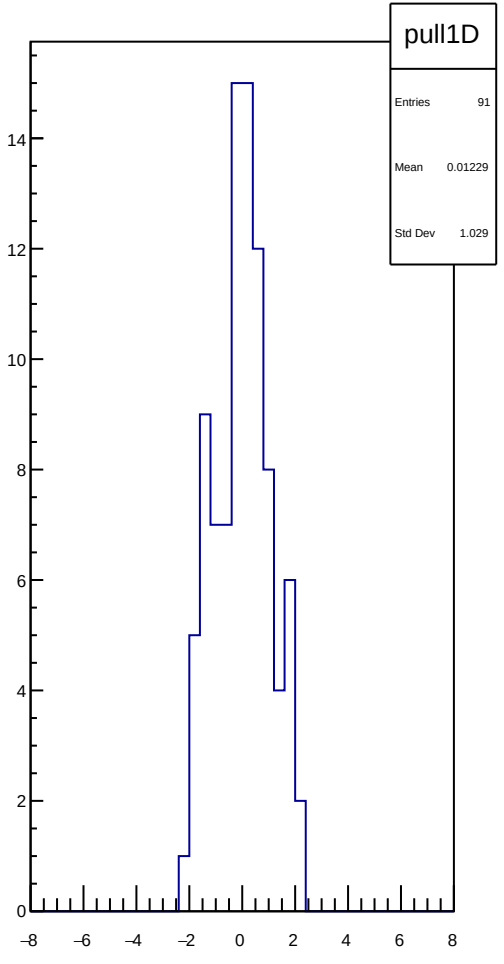


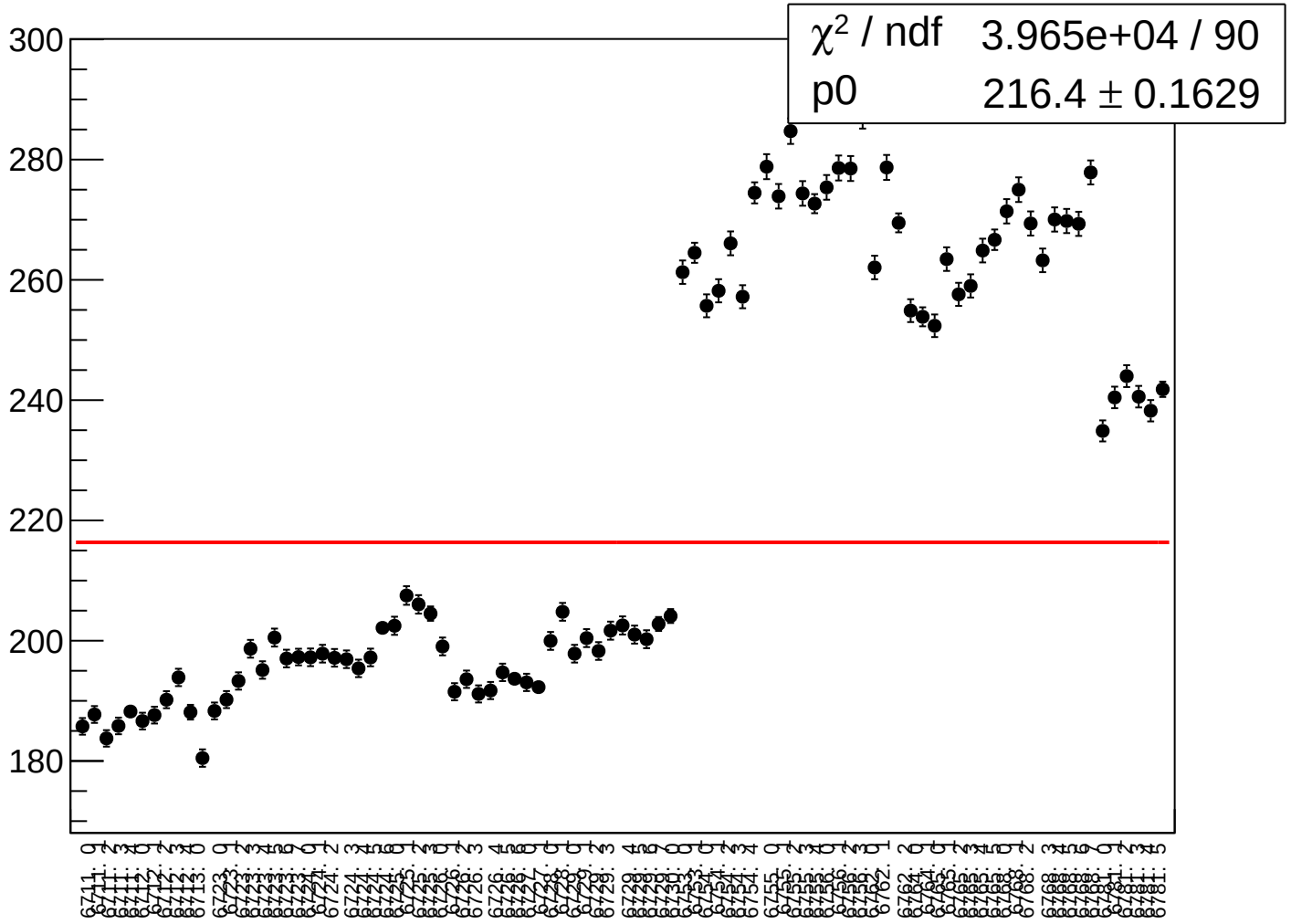

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 102.9 / 90
p0 2471 ± 2019
pull
Entries 91
Mean 162.1
Std Dev 31.74

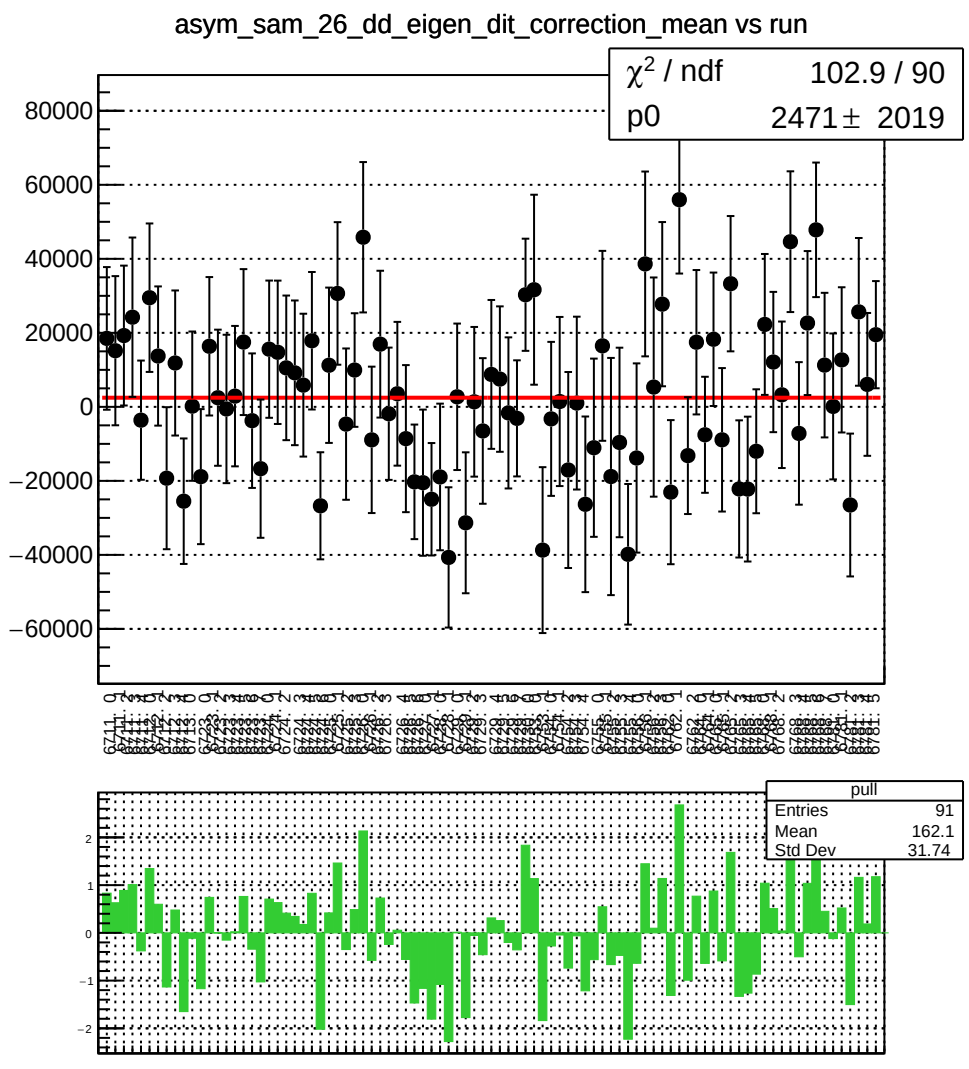

pull1D
Entries 91
Mean 0.01264
Std Dev 1.063

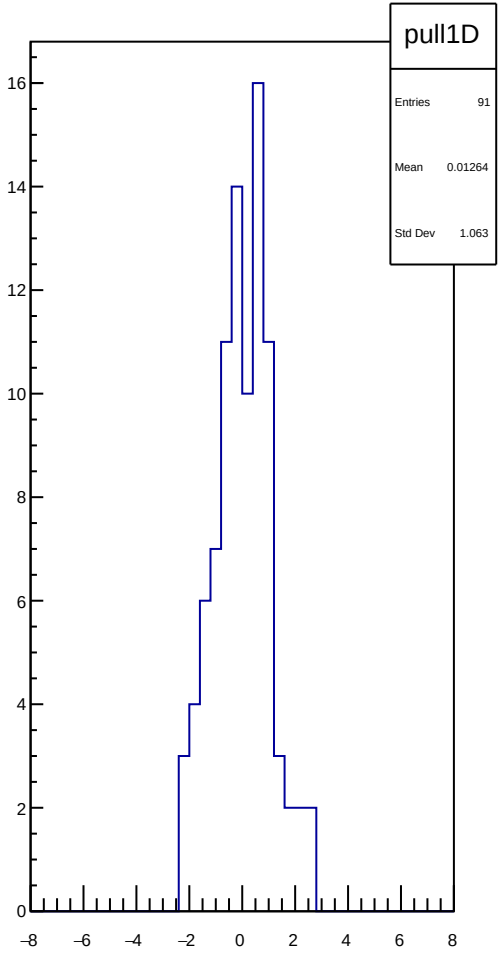

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 1.882e+04 / 90
p0 1908 ± 1.428
3200
3000
2800
2600
2400
2200
2000
1800
1600

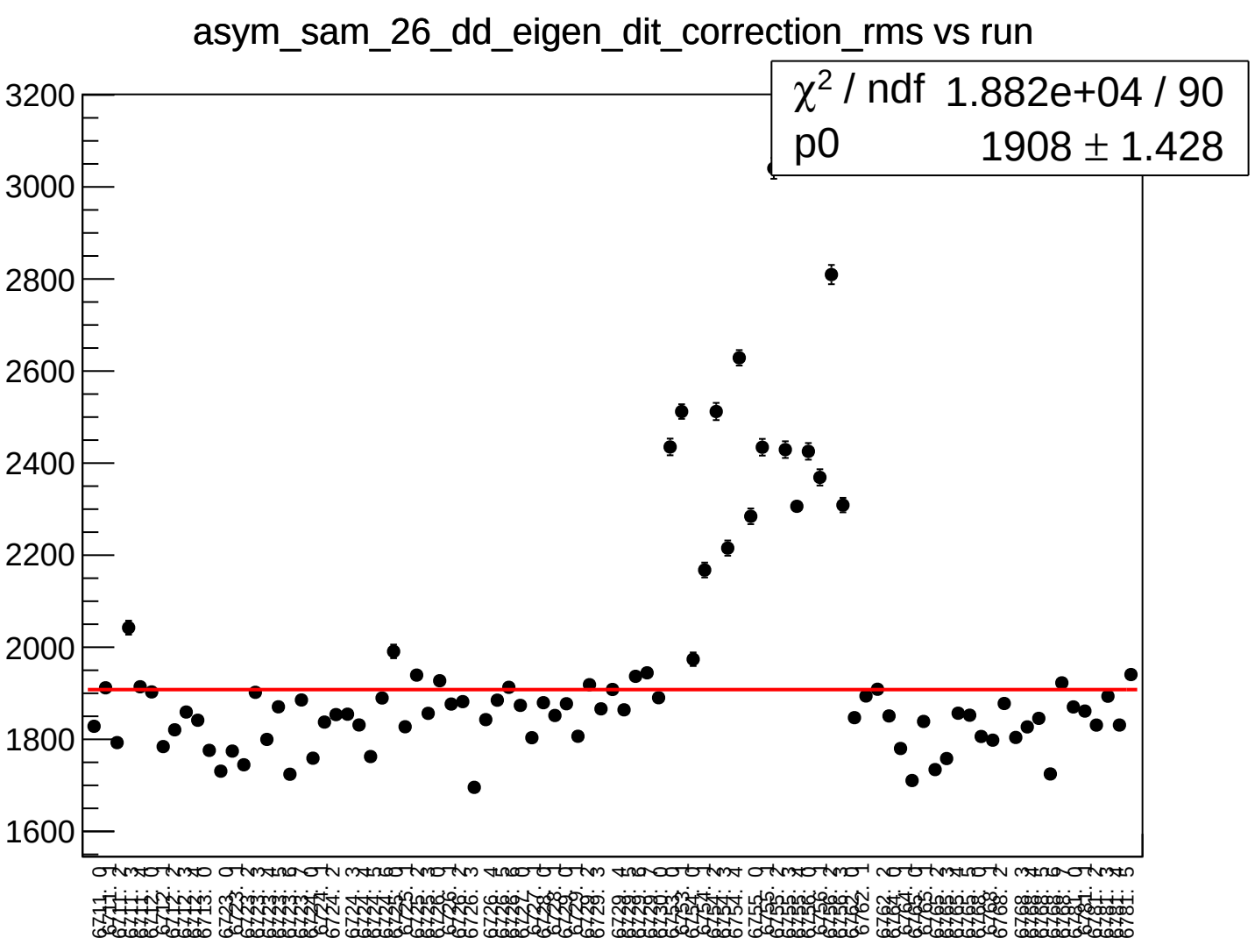

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 96.32 / 90
p0 607.6 ± 230.3
pull
Entries 91
Mean 341.3
Std Dev 0

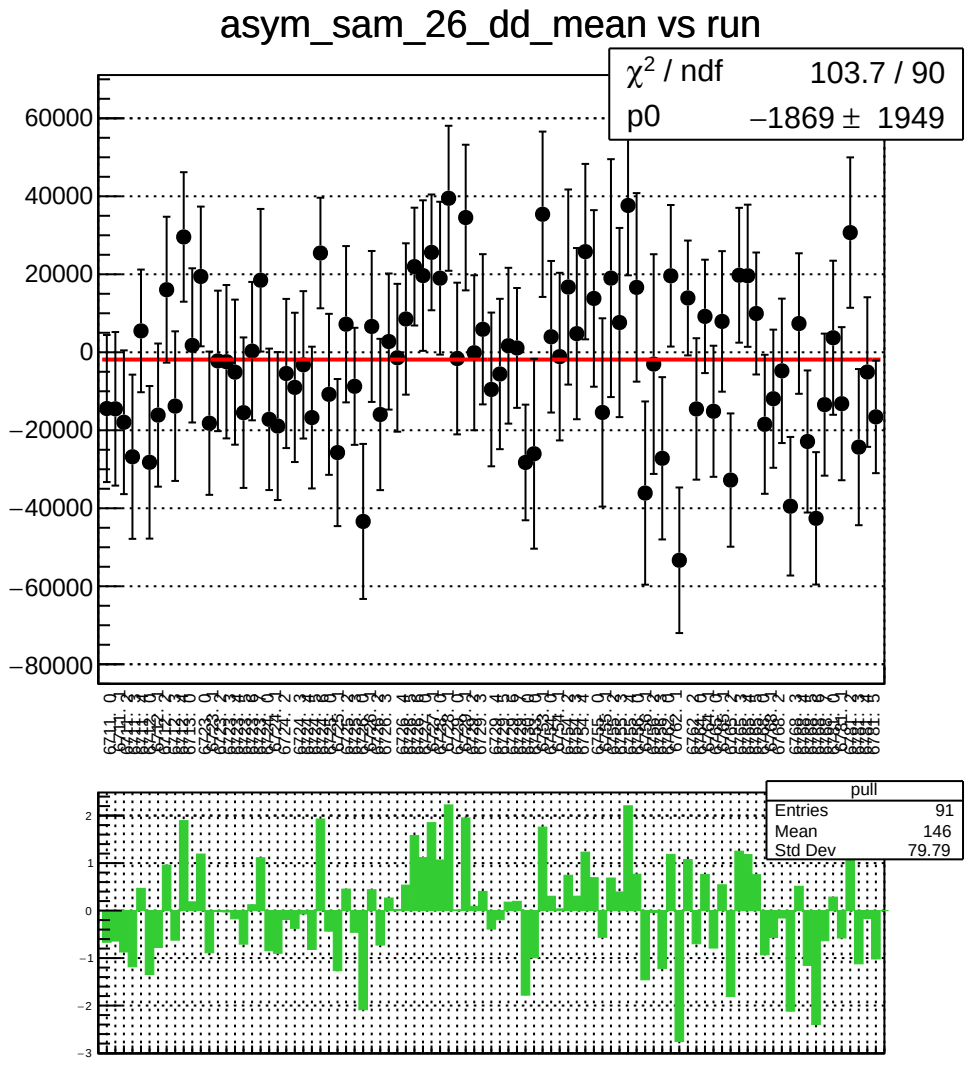

pull1D
Entries 91
Mean 0.01229
Std Dev 1.029

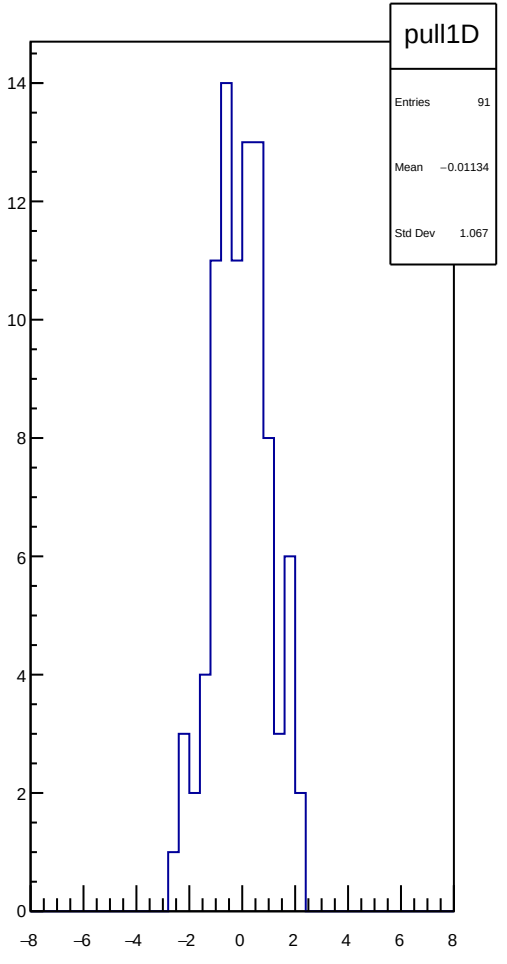

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 3.965e+04 / 90
p0 216.4 ± 0.1629
300
280
260
240
220
200
180

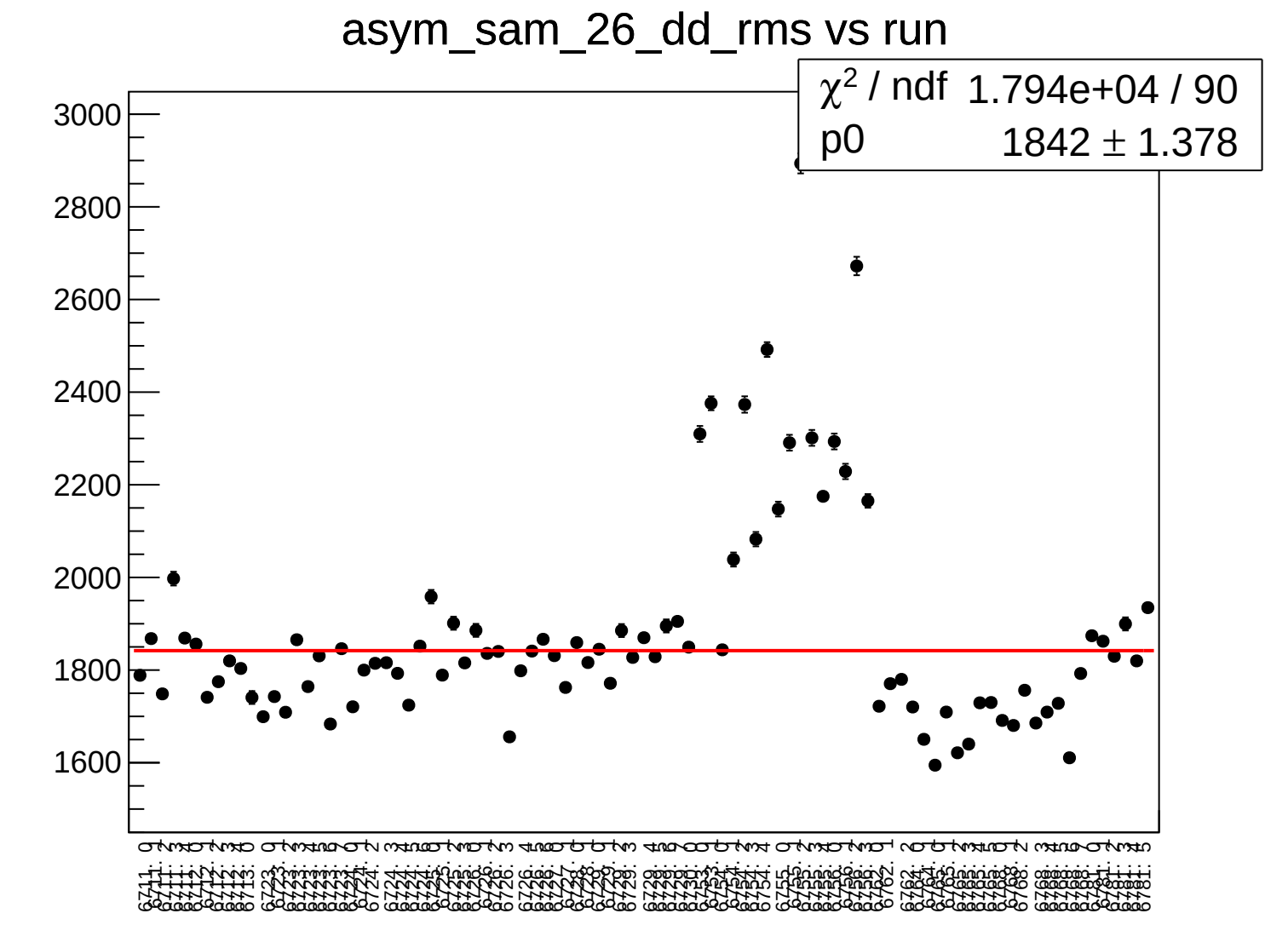

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 102.9 / 90
p0 2471 ± 2019
pull
Entries 91
Mean 162.1
Std Dev 31.74

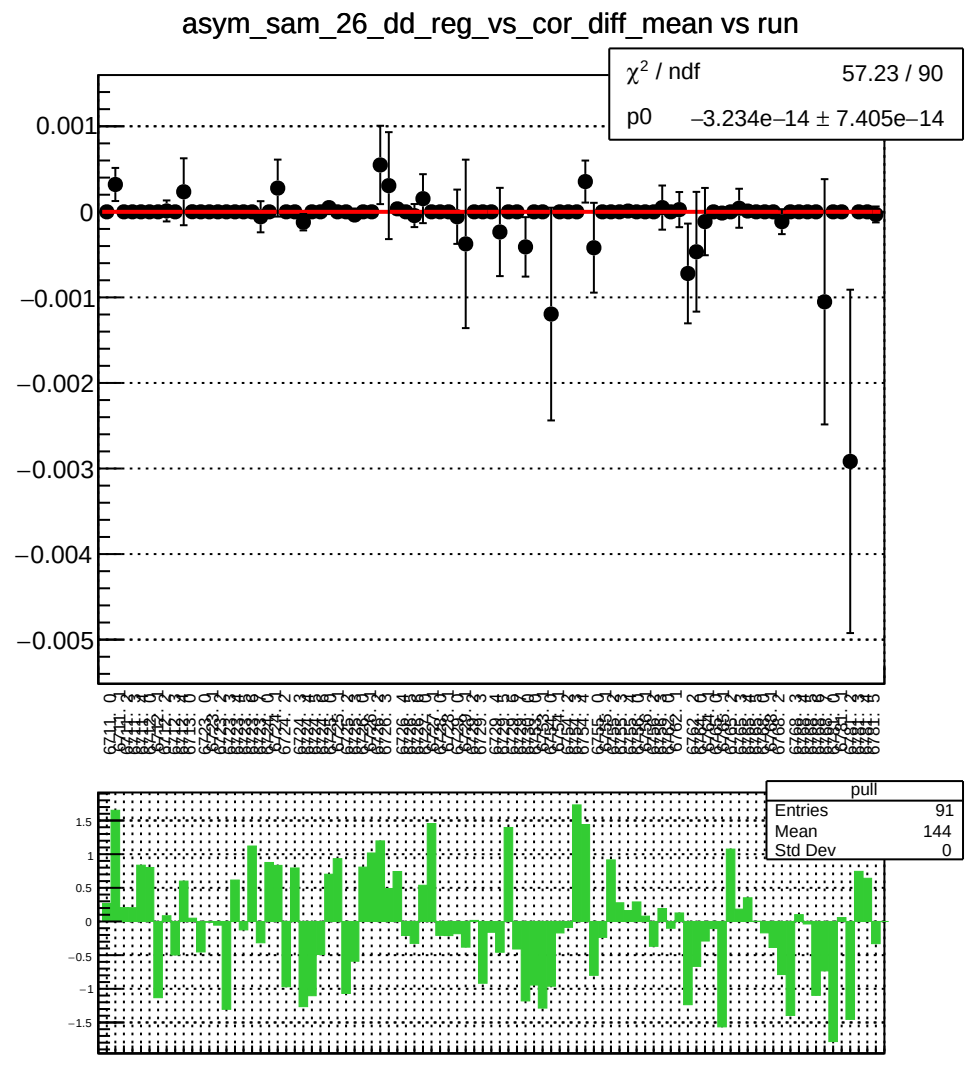

pull1D
Entries 91
Mean 0.01264
Std Dev 1.063

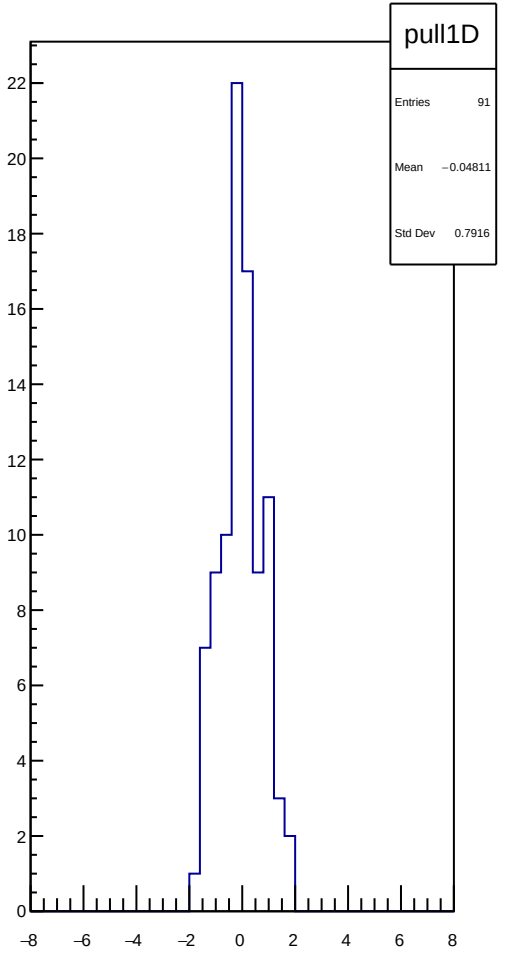

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.882e+04 / 90
p0 1908 ± 1.428
3200
3000
2800
2600
2400
2200
2000
1800
1600

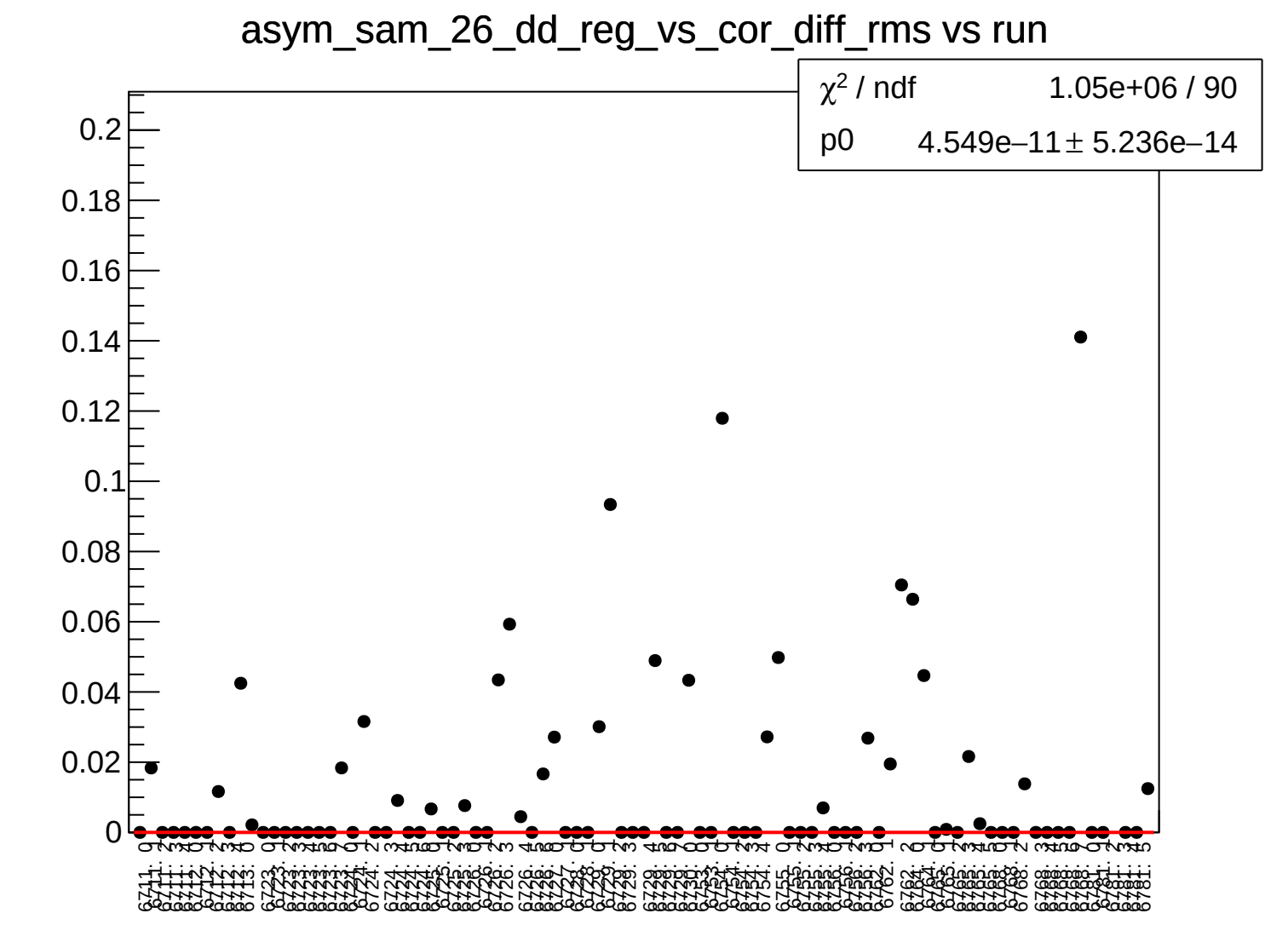

asym_sam_26_dd_mean vs run
χ² / ndf 103.7 / 90
p0 −1869 ± 1949
pull
Entries 91
Mean 146
Std Dev 79.79

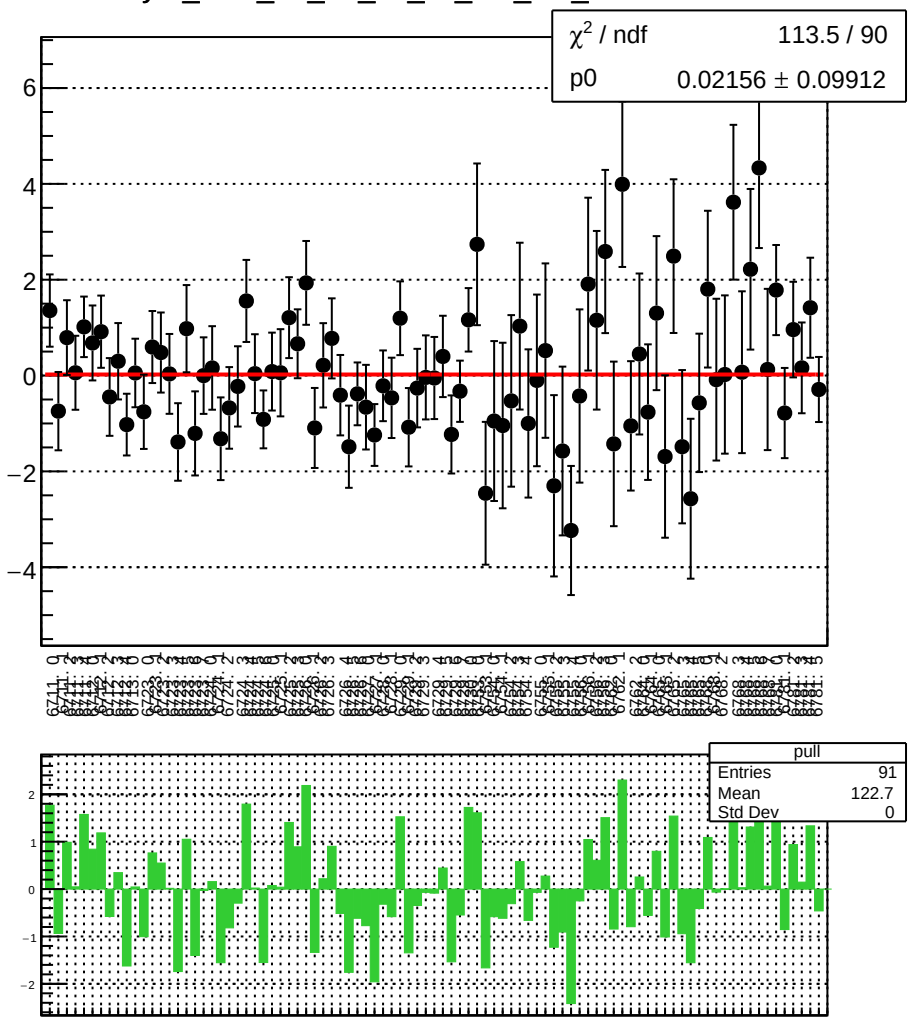

pull1D
Entries 91
Mean −0.01134
Std Dev 1.067

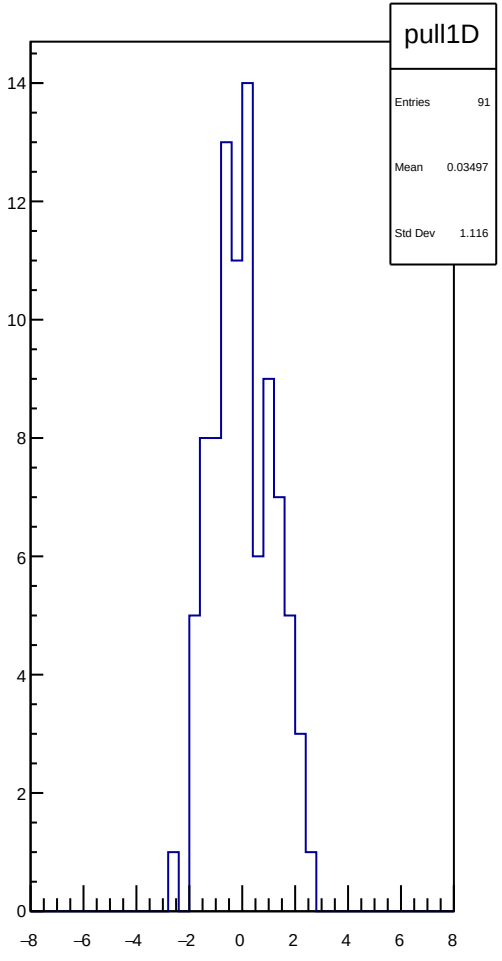

asym_sam_26_dd_rms vs run
χ^2 / ndf 1.794e+04 / 90
p0 1842 ± 1.378
3000
2800
2600
2400
2200
2000
1800
1600

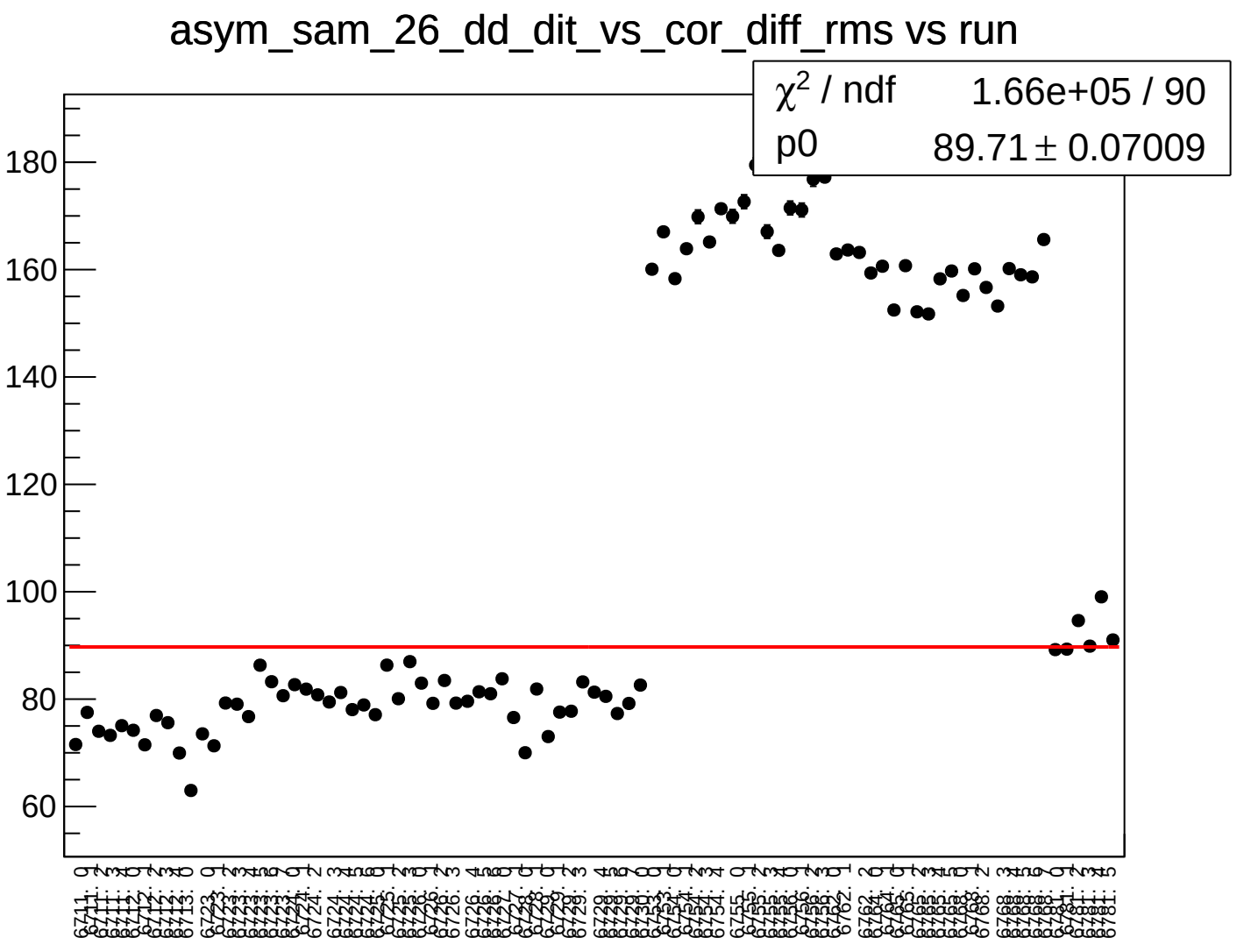

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 57.23 / 90
p0 −3.234e−14 ± 7.405e−14
0.001
0
−0.001
−0.002
−0.003
−0.004
−0.005
pull
Entries 91
Mean 144
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

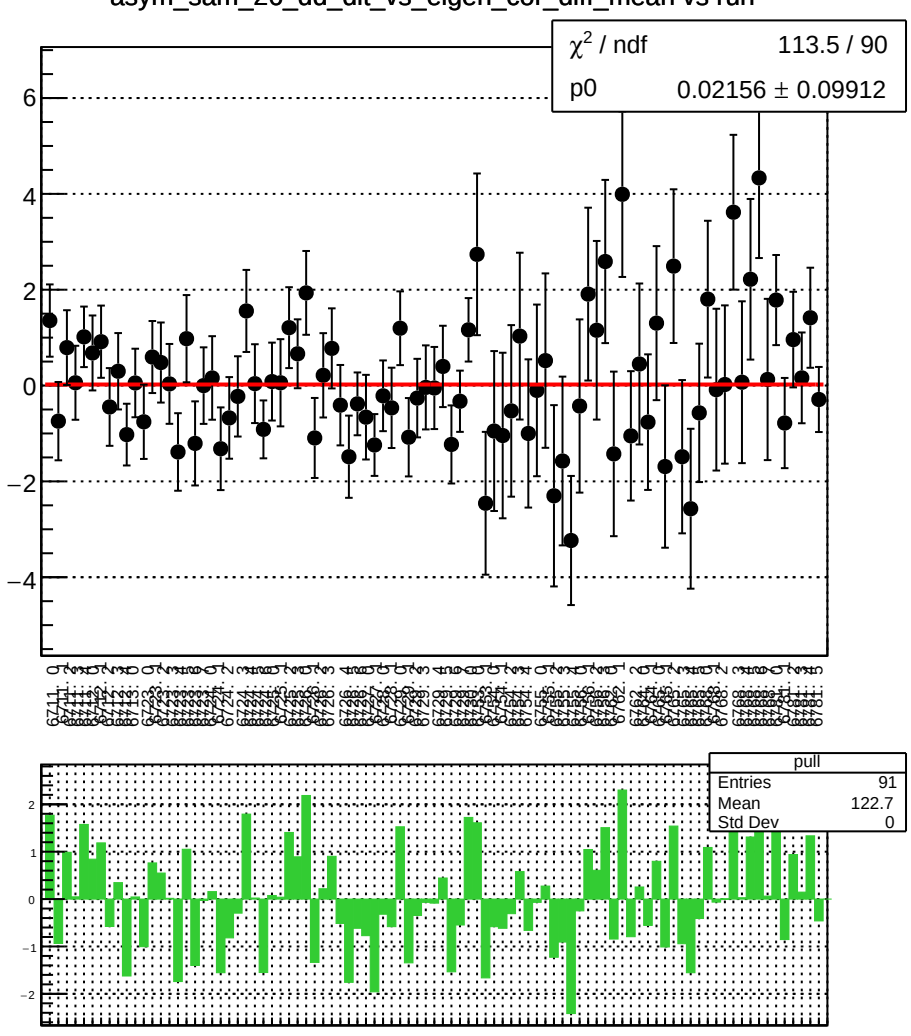

pull1D
Entries 91
Mean −0.04811
Std Dev 0.7916
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

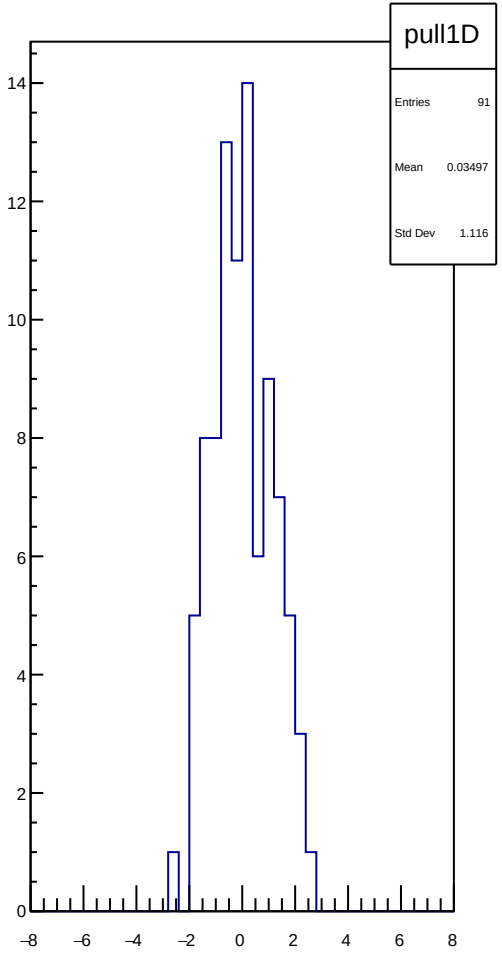

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.05e+06 / 90
p0 4.549e−11 ± 5.236e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

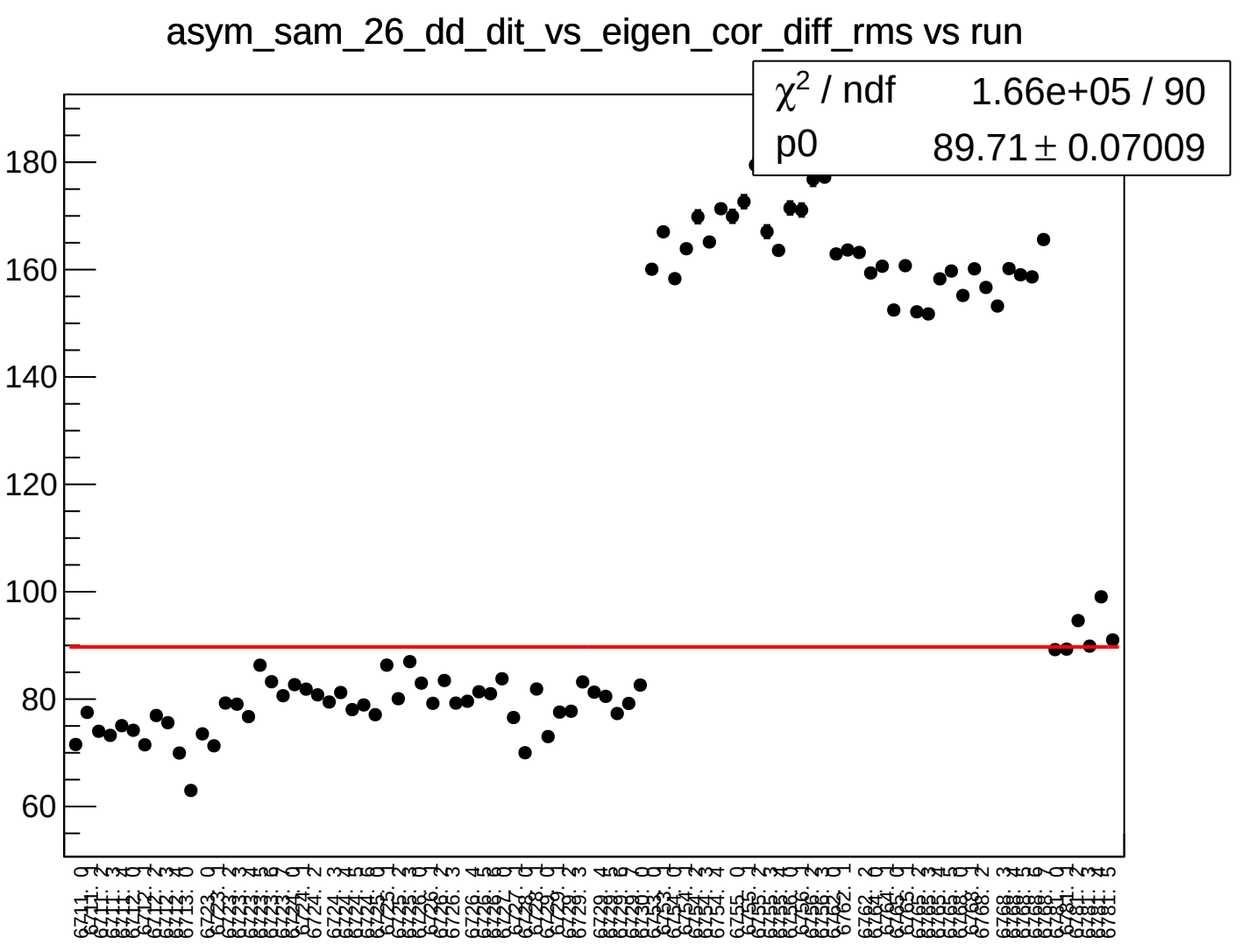

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 113.5 / 90
p0 0.02156 ± 0.09912
pull
Entries 91
Mean 122.7
Std Dev 0

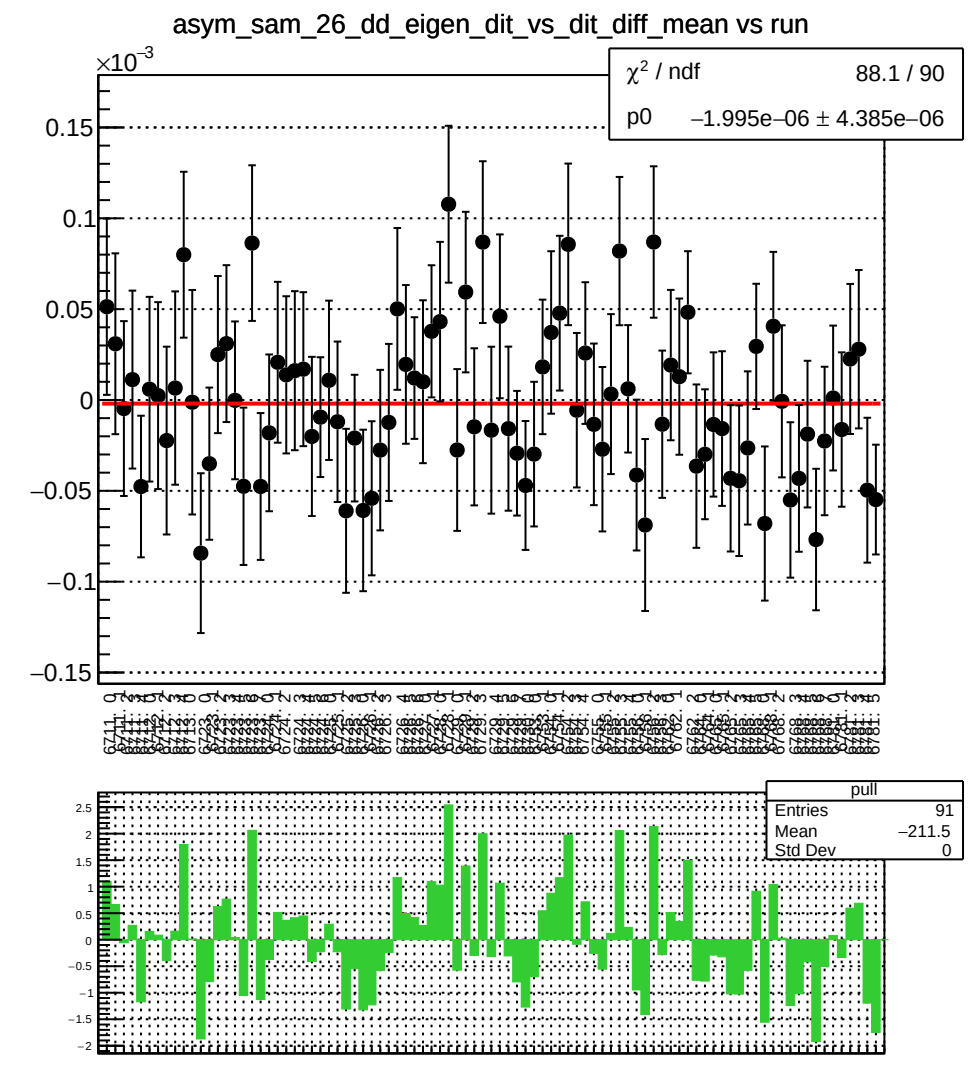

pull1D
Entries 91
Mean 0.03497
Std Dev 1.116

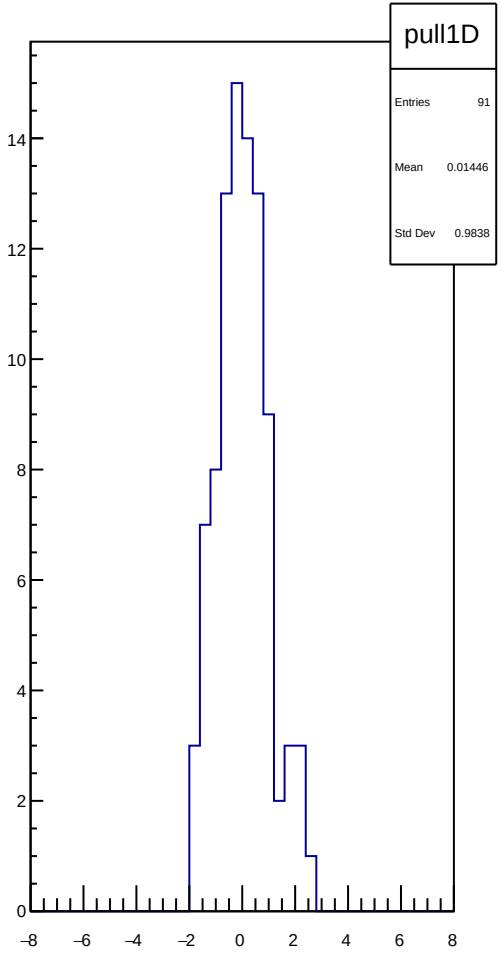

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.66e+05 / 90
p0 89.71 ± 0.07009
180
160
140
120
100
80
60

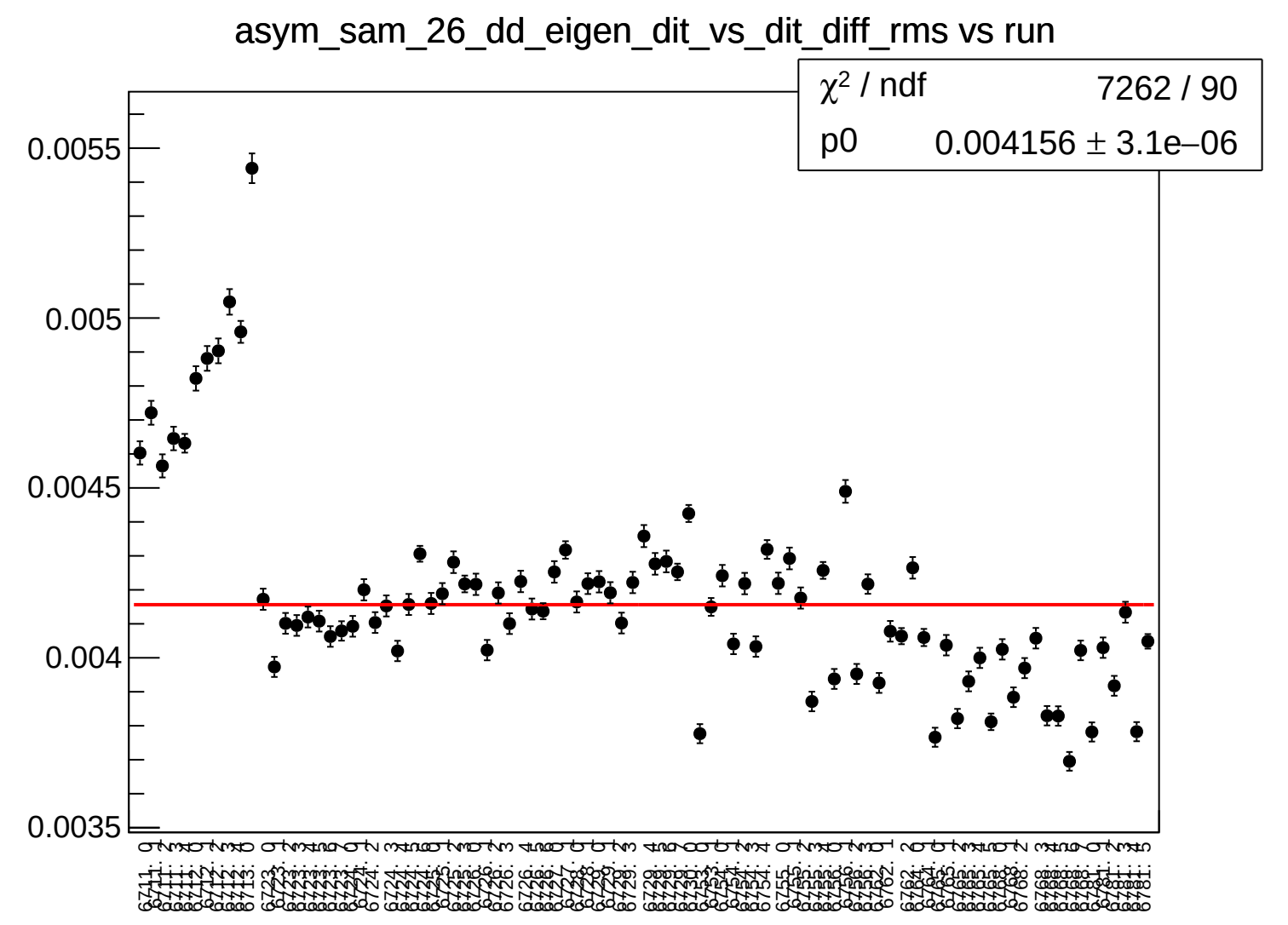

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.5 / 90
p0 0.02156 ± 0.09912
pull
Entries 91
Mean 122.7
Std Dev 0

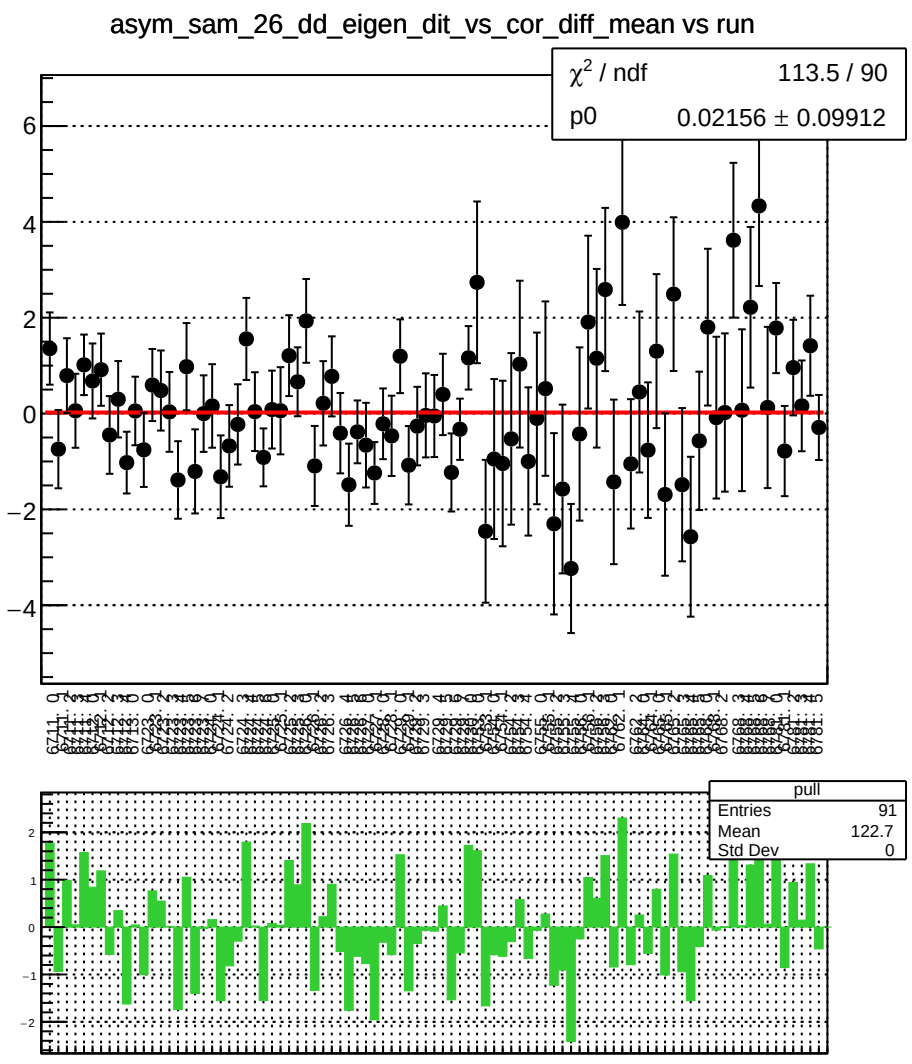

pull1D
Entries 91
Mean 0.03497
Std Dev 1.116

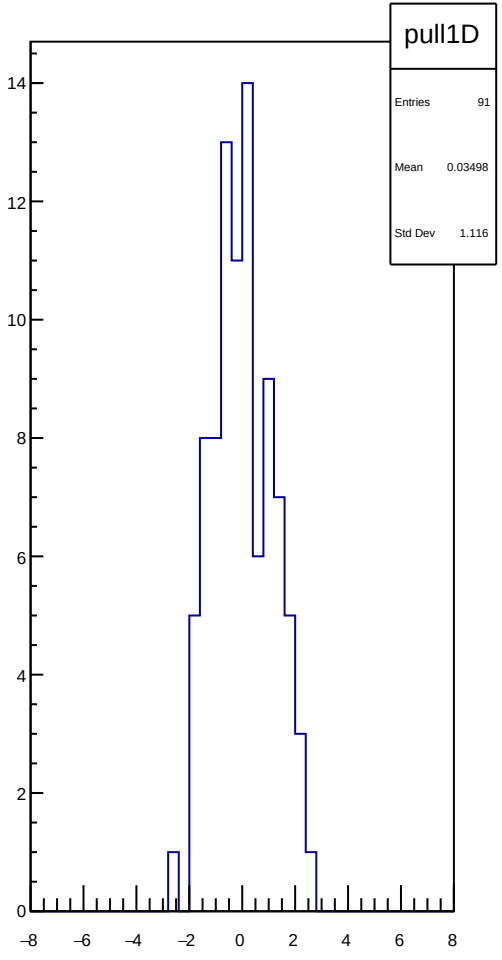

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.66e+05 / 90
p0 89.71 ± 0.07009
180
160
140
120
100
80
60

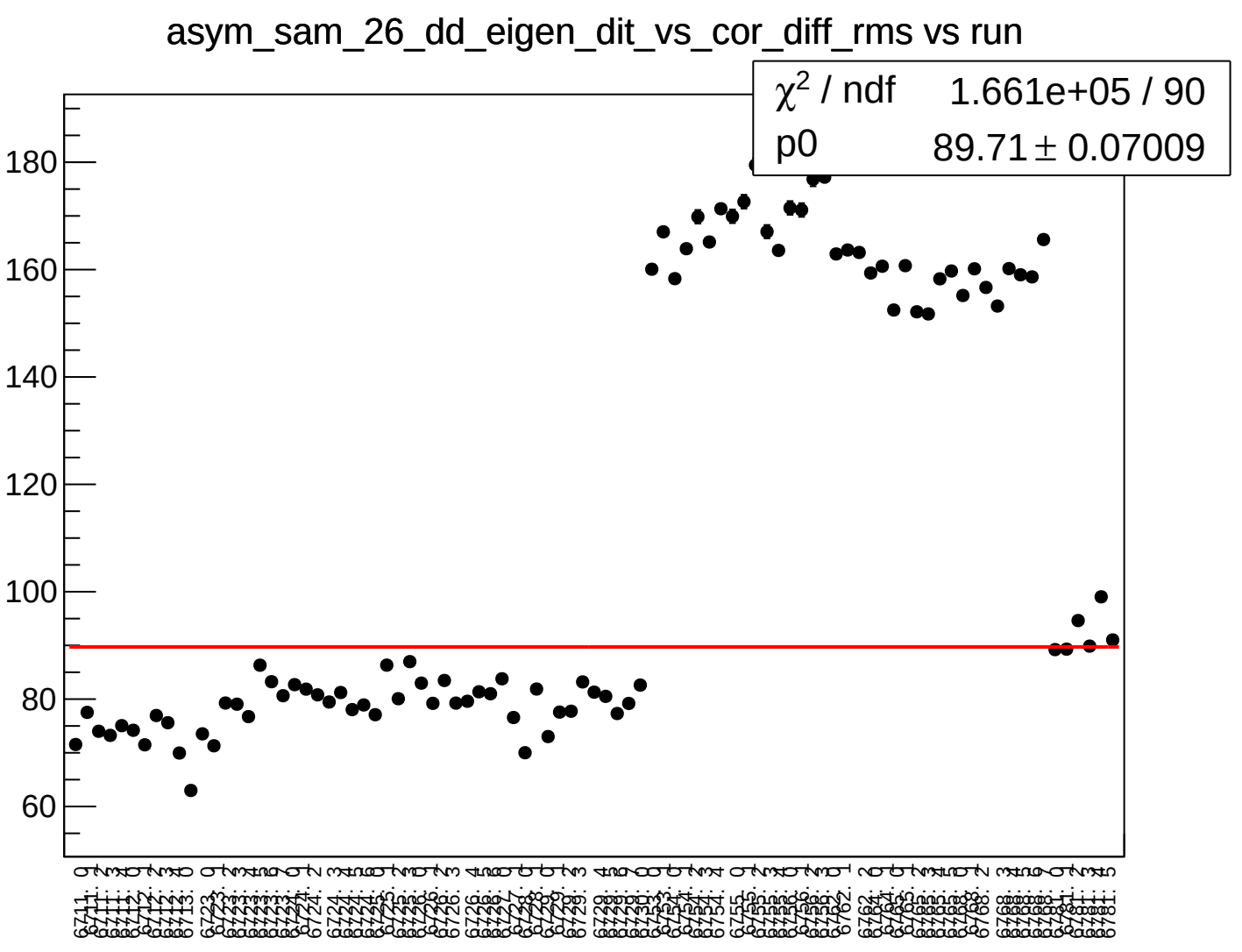

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.1 / 90
p0 −1.995e−06 ± 4.385e−06
pull
Entries 91
Mean −211.5
Std Dev 0

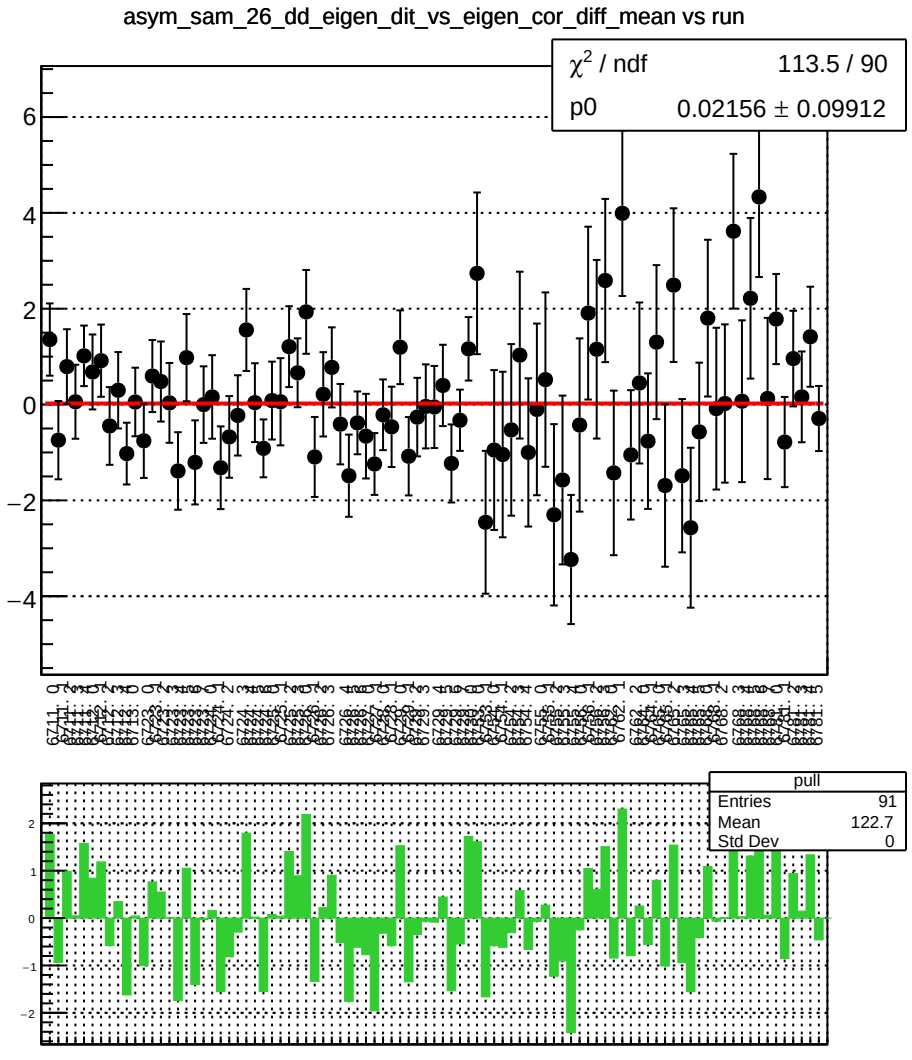

pull1D
Entries 91
Mean 0.01446
Std Dev 0.9838

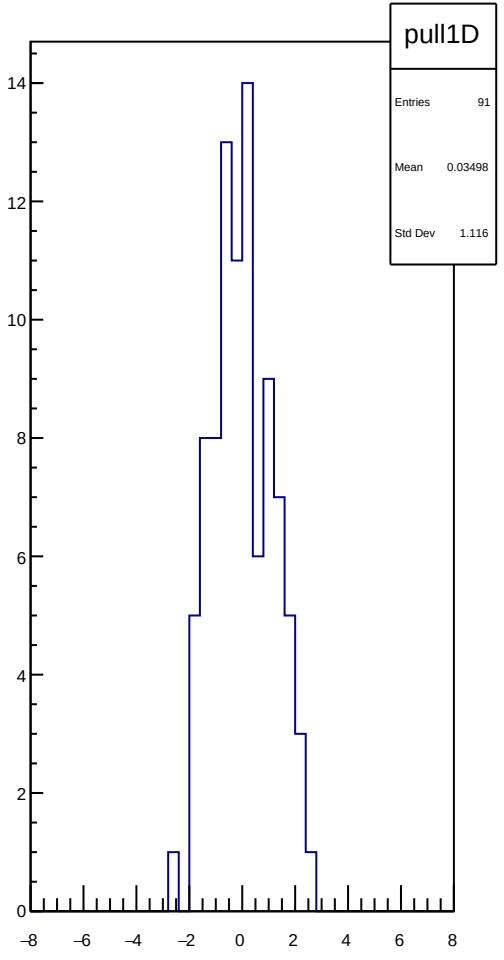

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7262 / 90
p0 0.004156 ± 3.1e–06
0.0055
0.005
0.0045
0.004
0.0035

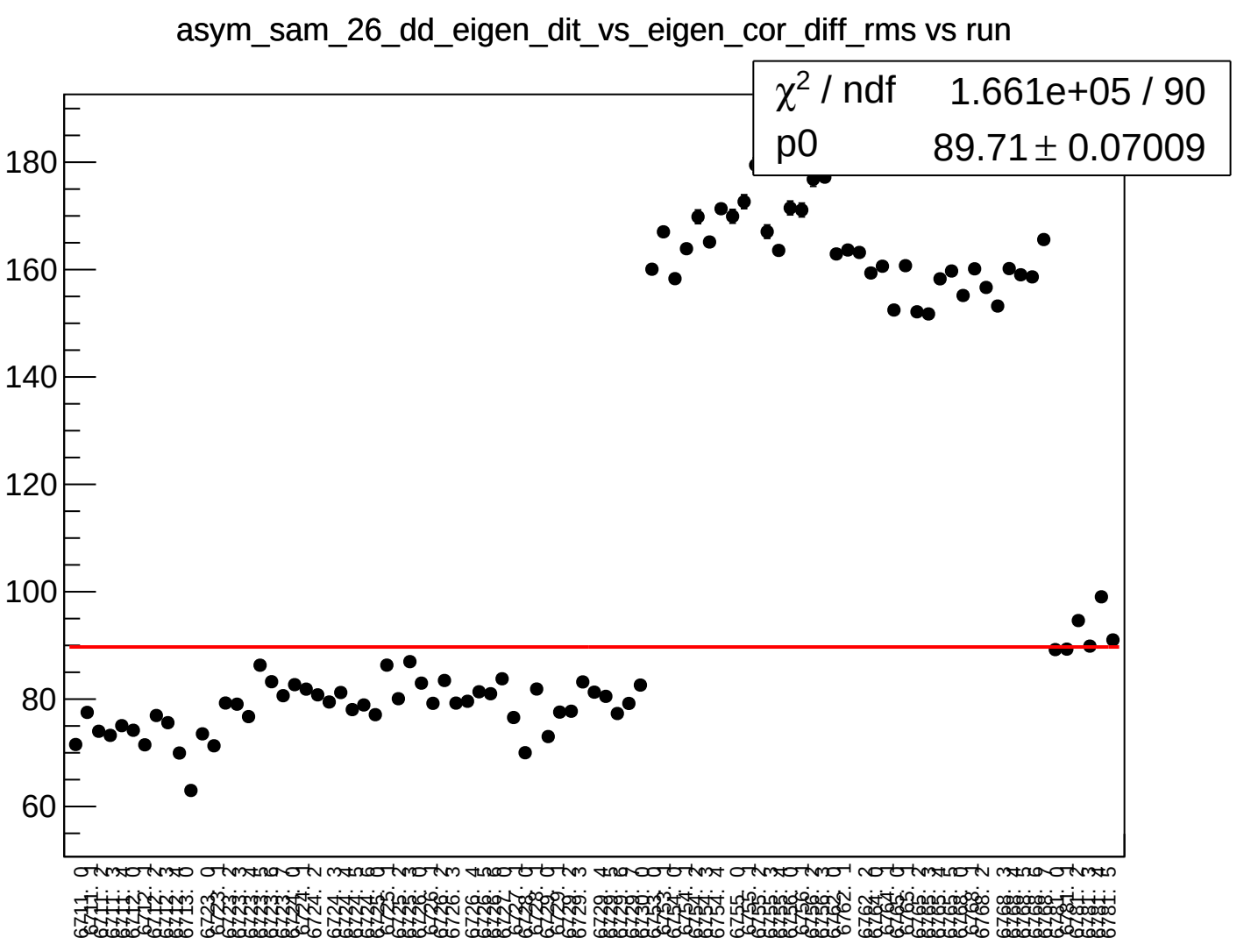

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.5 / 90
p0 0.02156 ± 0.09912
pull
Entries 91
Mean 122.7
Std Dev 0

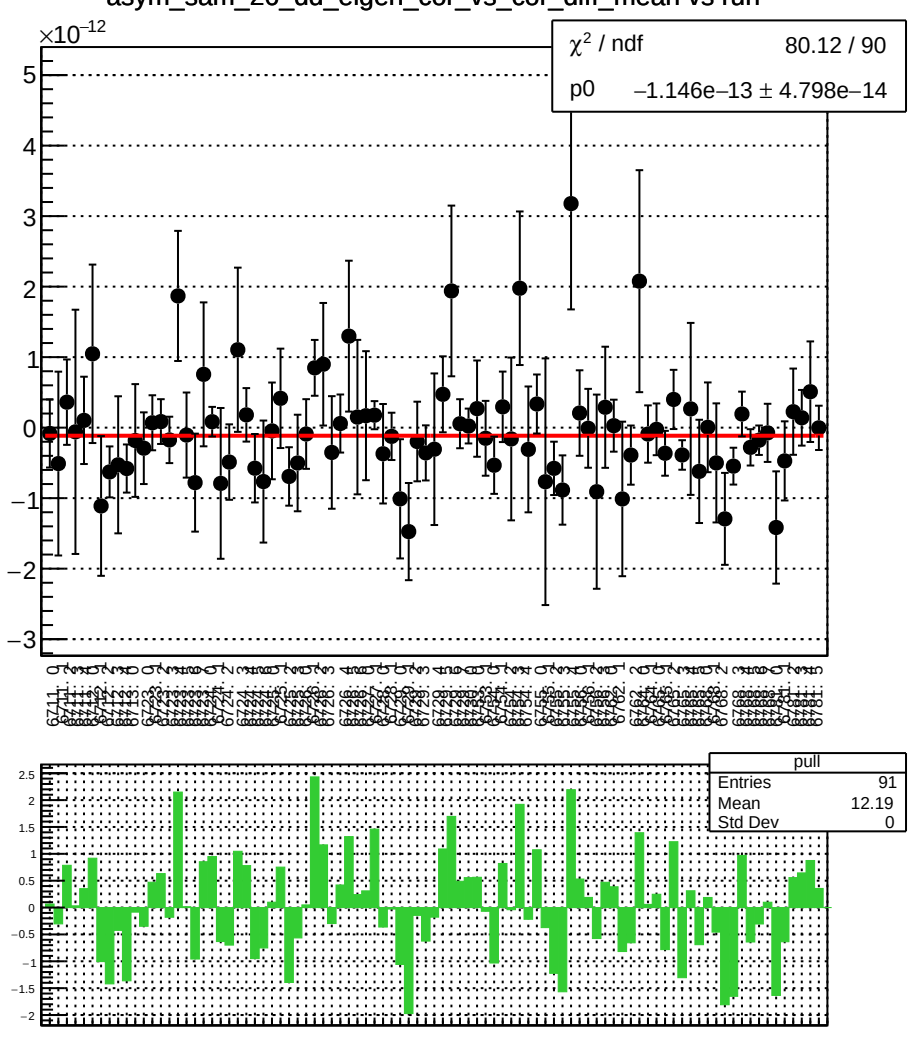

pull1D
Entries 91
Mean 0.03498
Std Dev 1.116

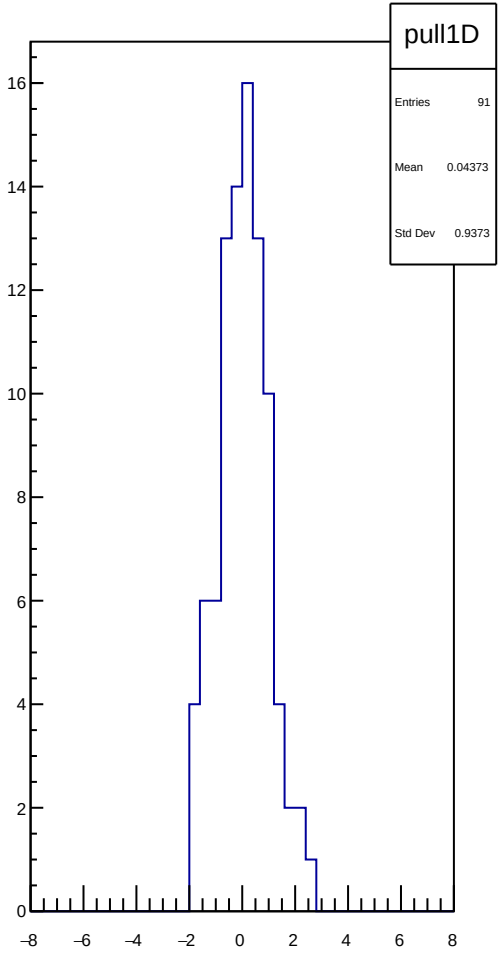

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.661e+05 / 90
p0 89.71 ± 0.07009
180
160
140
120
100
80
60

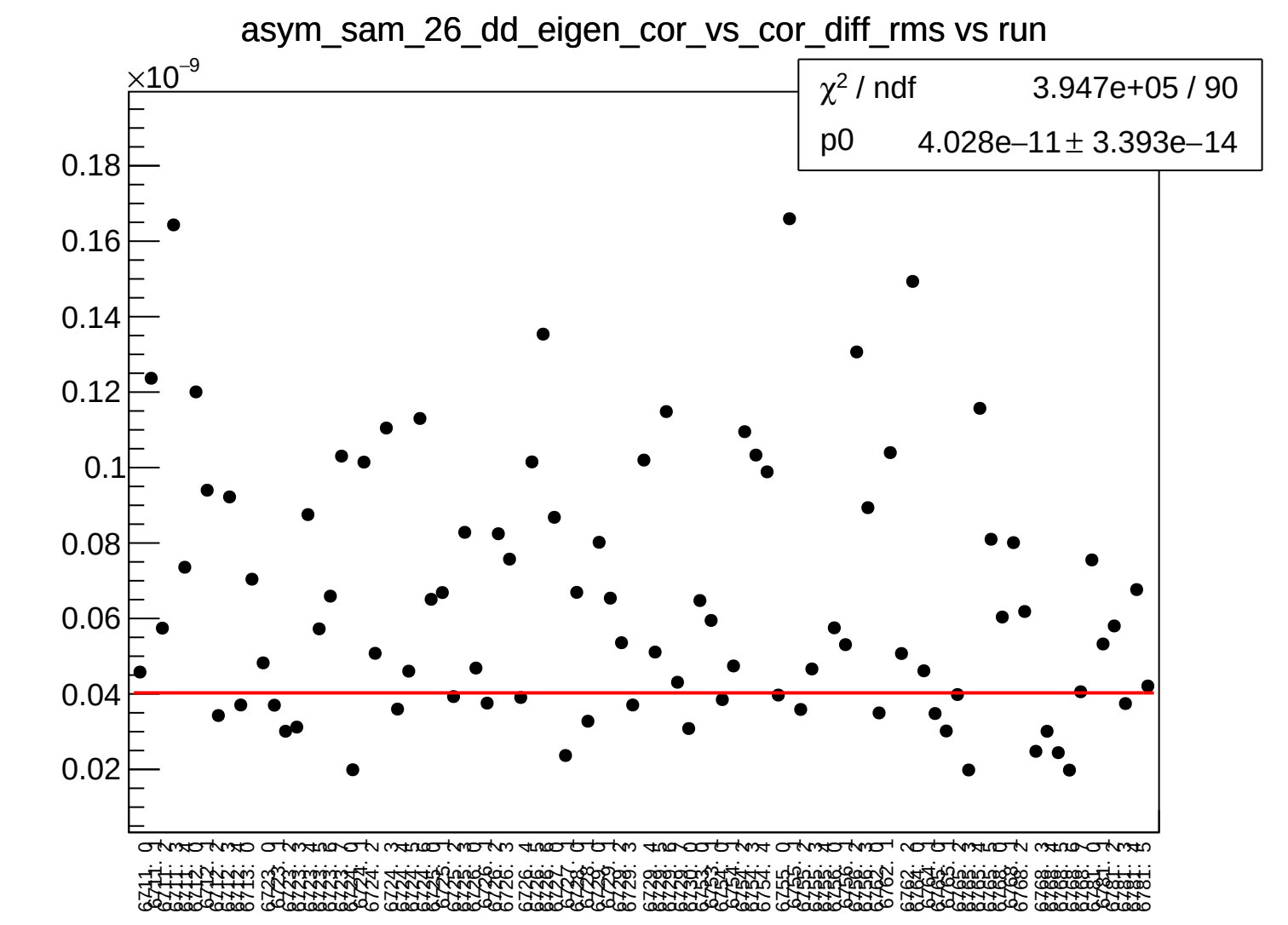

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.5 / 90
p0 0.02156 ± 0.09912
pull
Entries 91
Mean 122.7
Std Dev 0

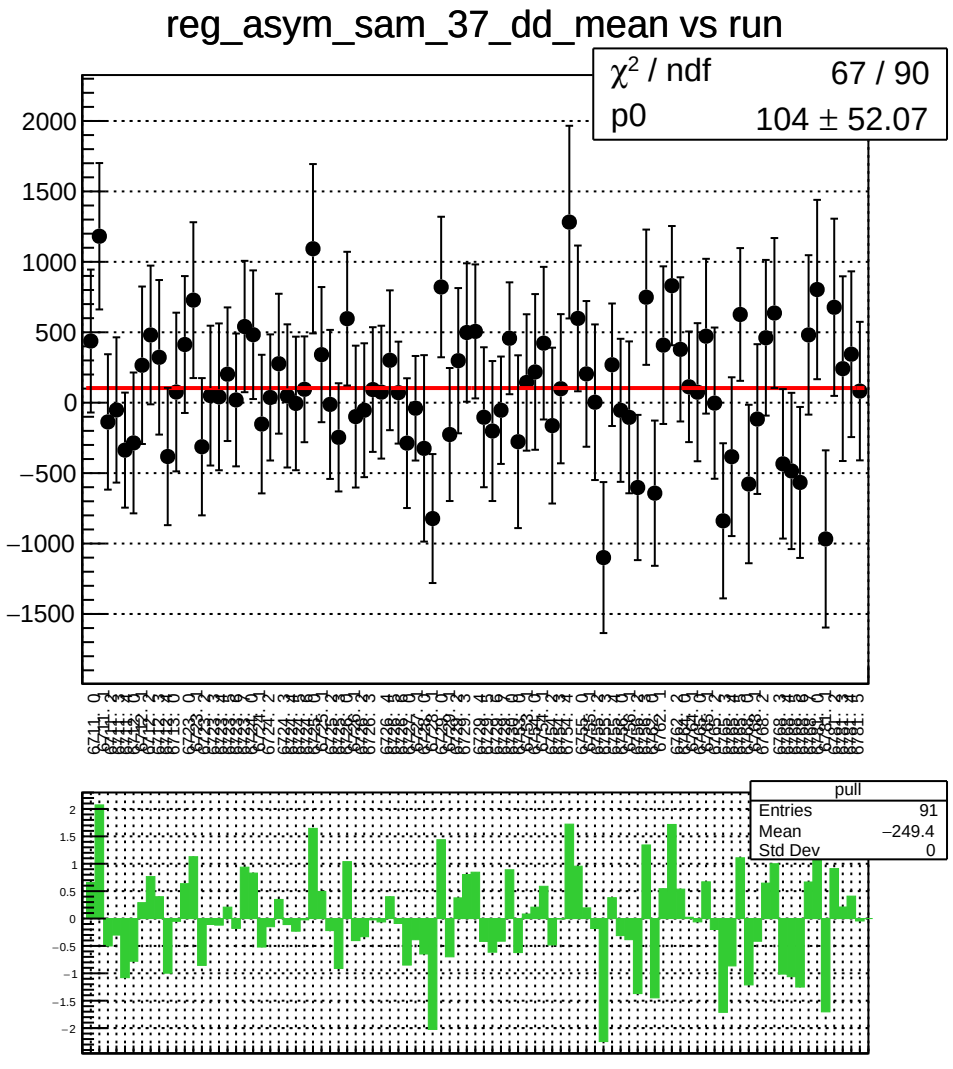

pull1D
Entries 91
Mean 0.03498
Std Dev 1.116

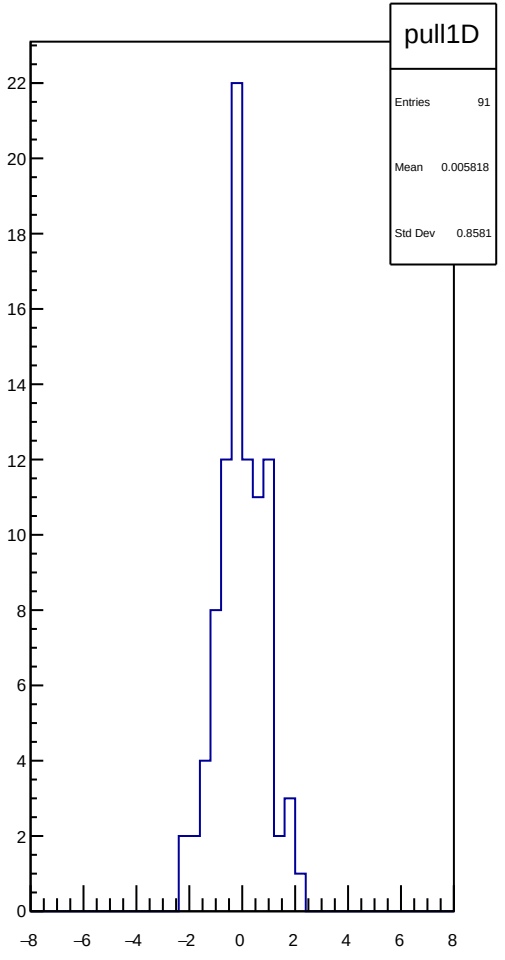

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.661e+05 / 90
p0 89.71 ± 0.07009
180
160
140
120
100
80
60

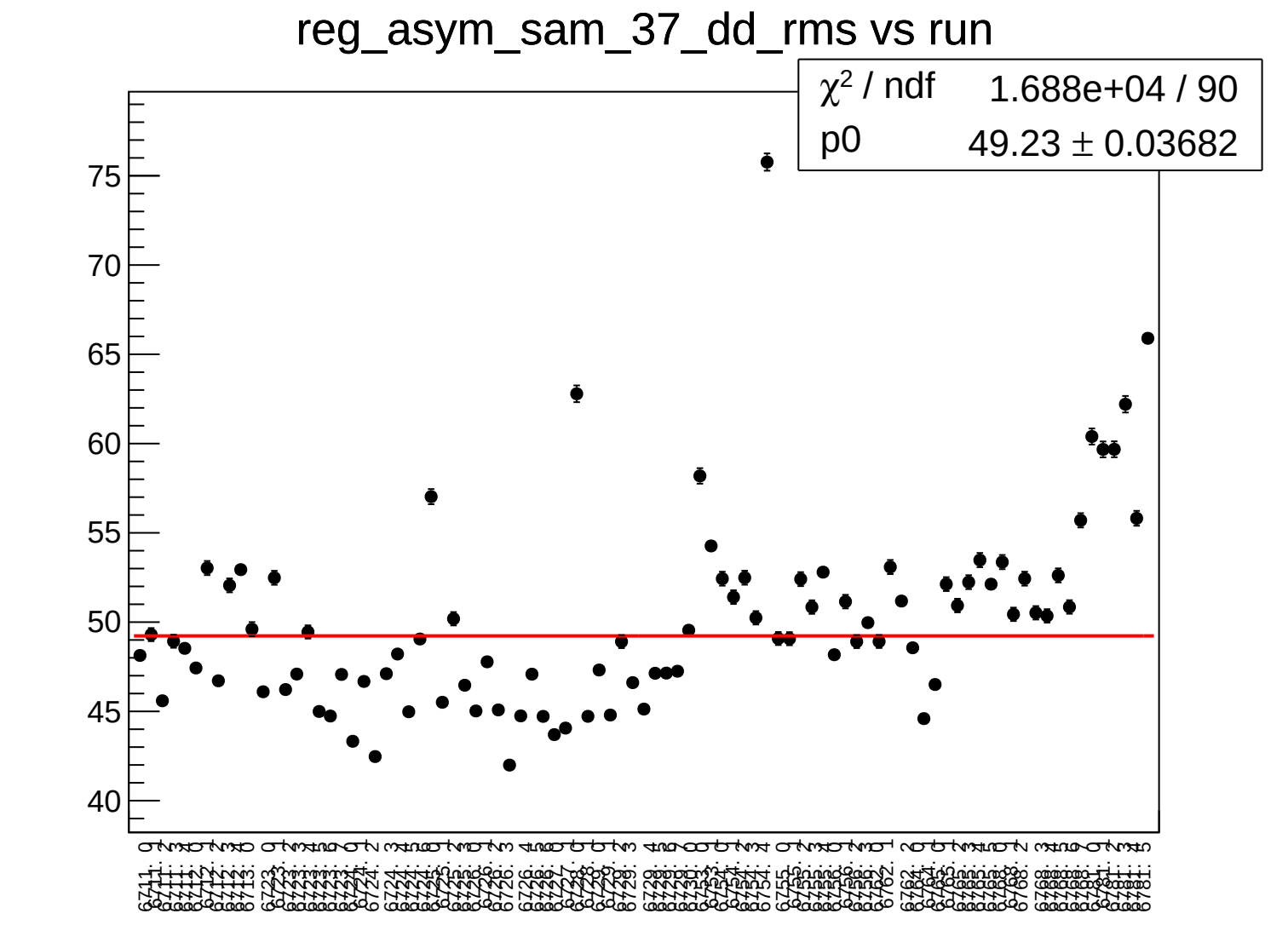

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.12 / 90
p0 −1.146e−13 ± 4.798e−14
pull
Entries 91
Mean 12.19
Std Dev 0

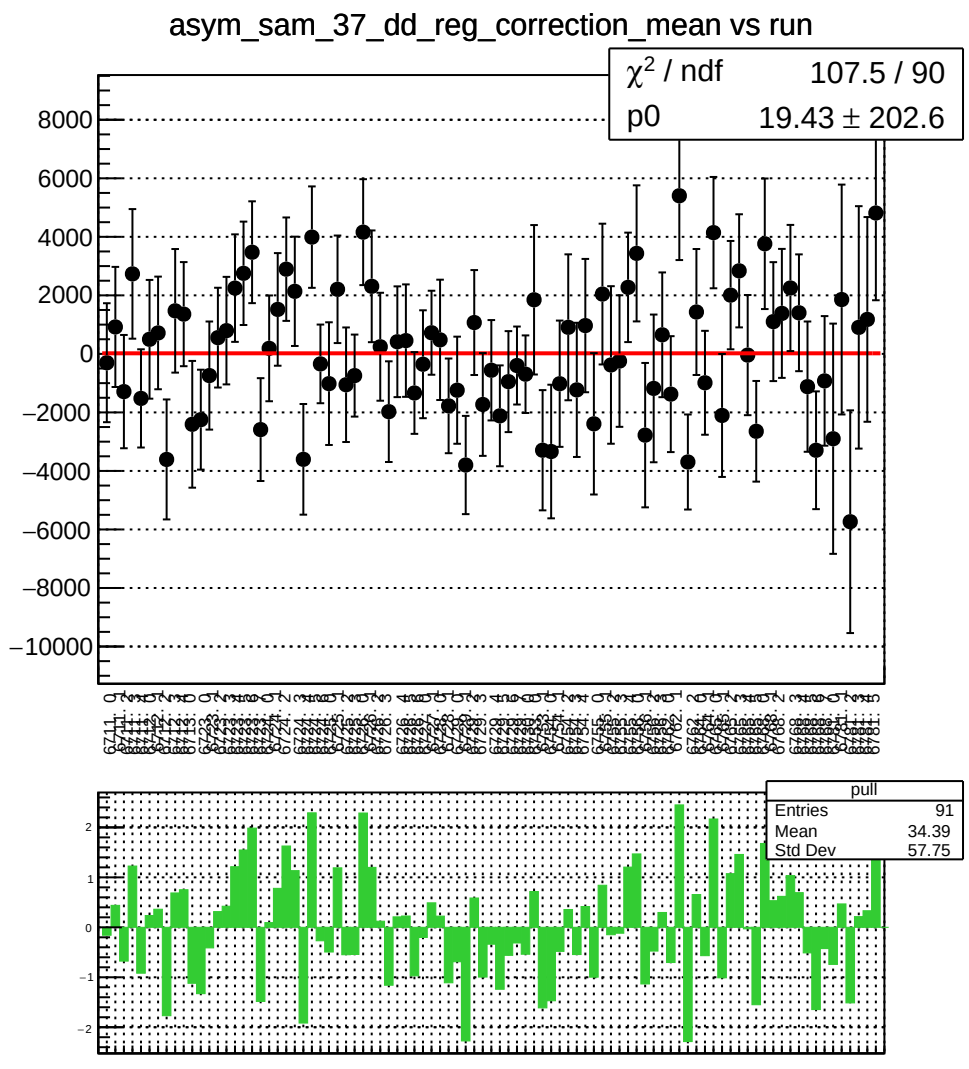

pull1D
Entries 91
Mean 0.04373
Std Dev 0.9373

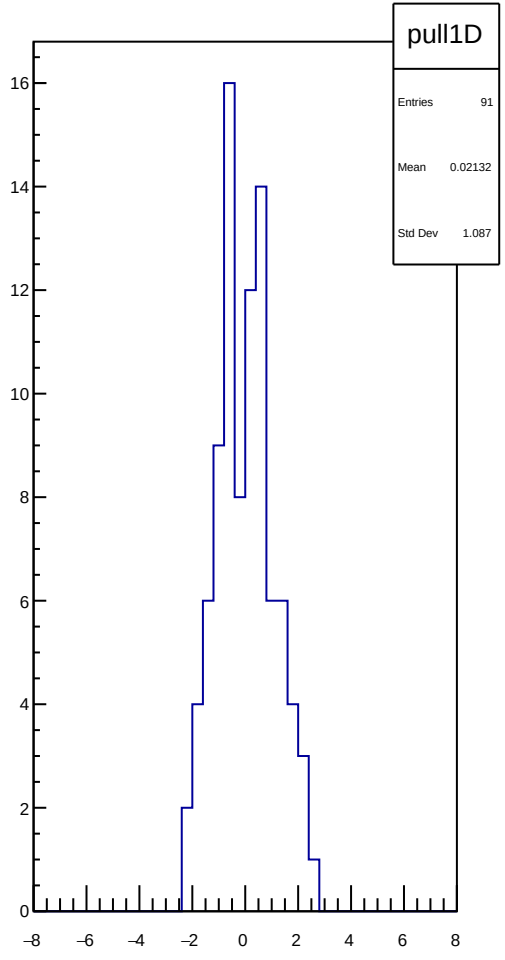

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.947e+05 / 90
p0 4.028e−11 ± 3.393e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

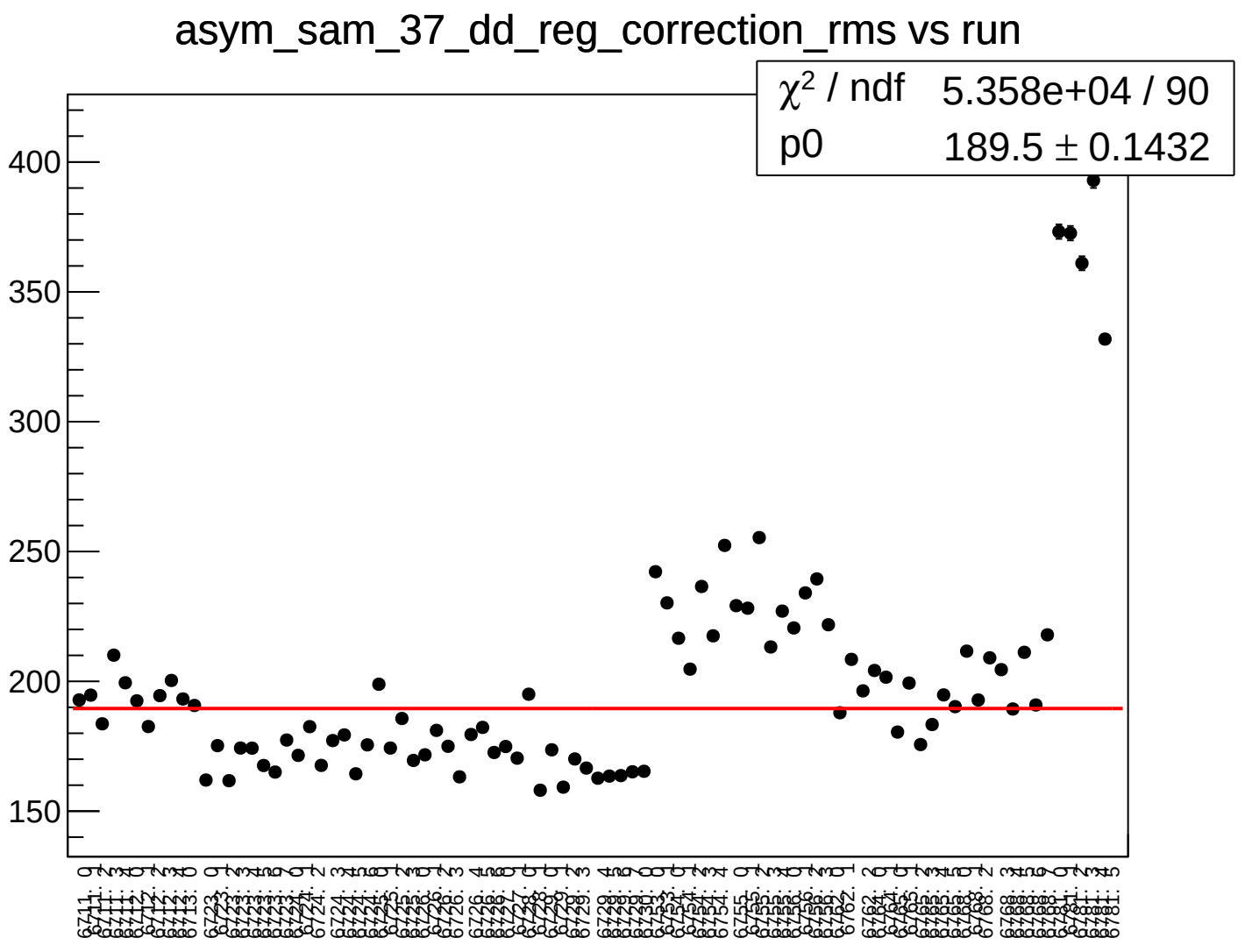

reg_asym_sam_37_dd_mean vs run
χ² / ndf 67 / 90
p0 104 ± 52.07
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean −249.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

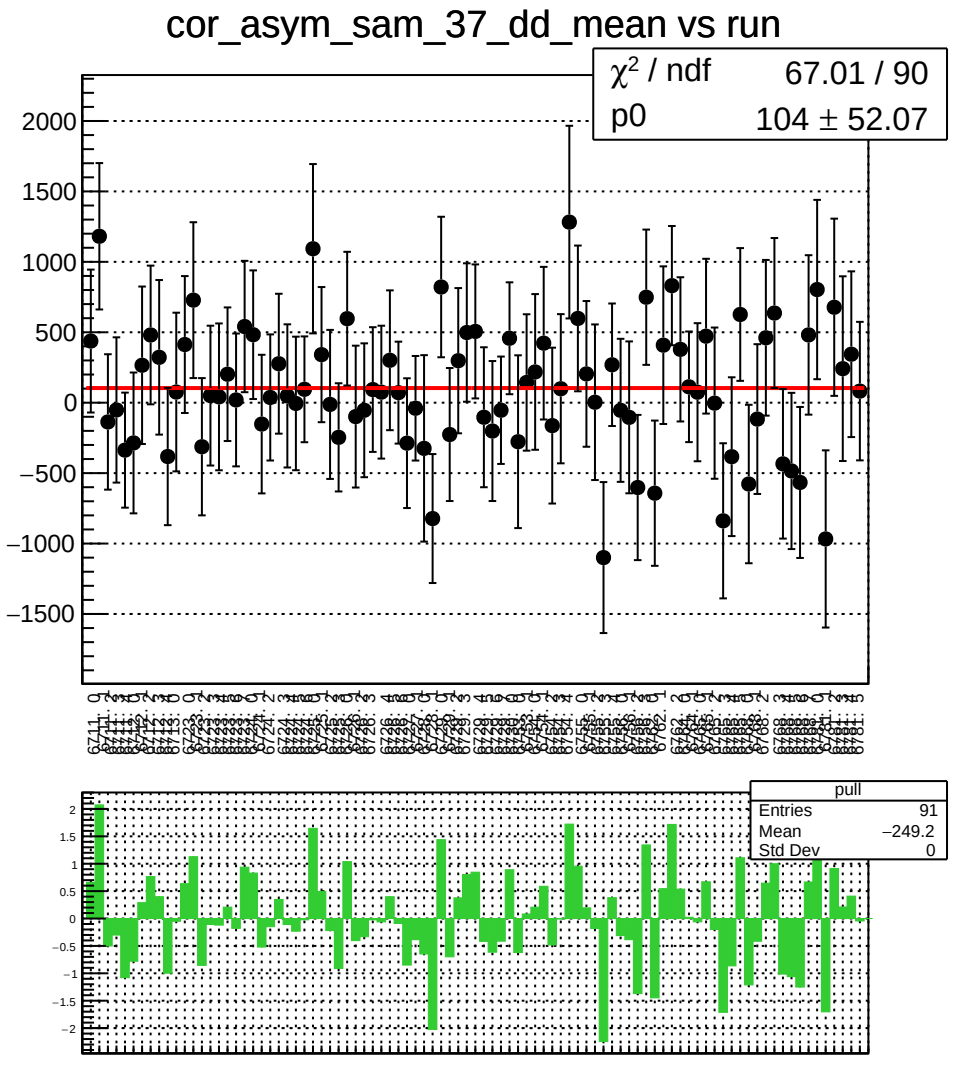

pull1D
Entries 91
Mean 0.005818
Std Dev 0.8581
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

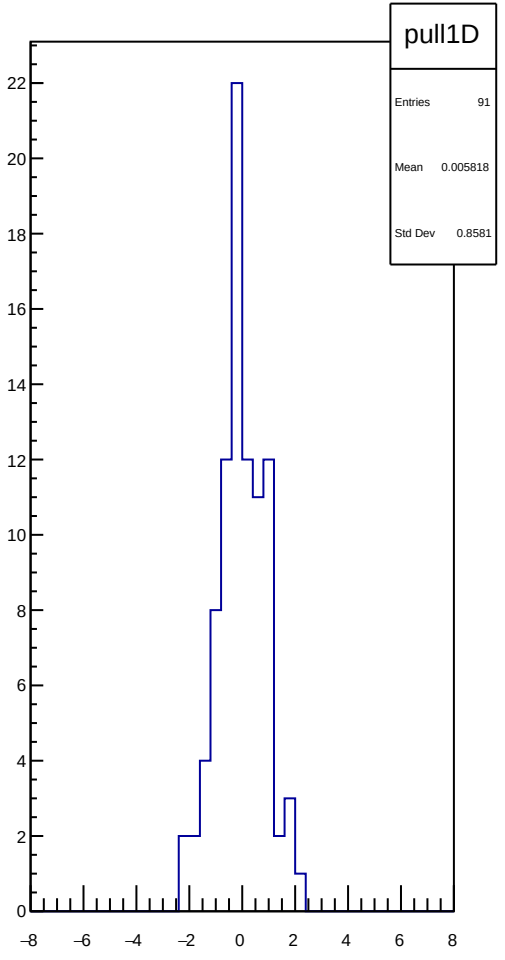

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.688e+04 / 90
p0 49.23 ± 0.03682
75
70
65
60
55
50
45
40

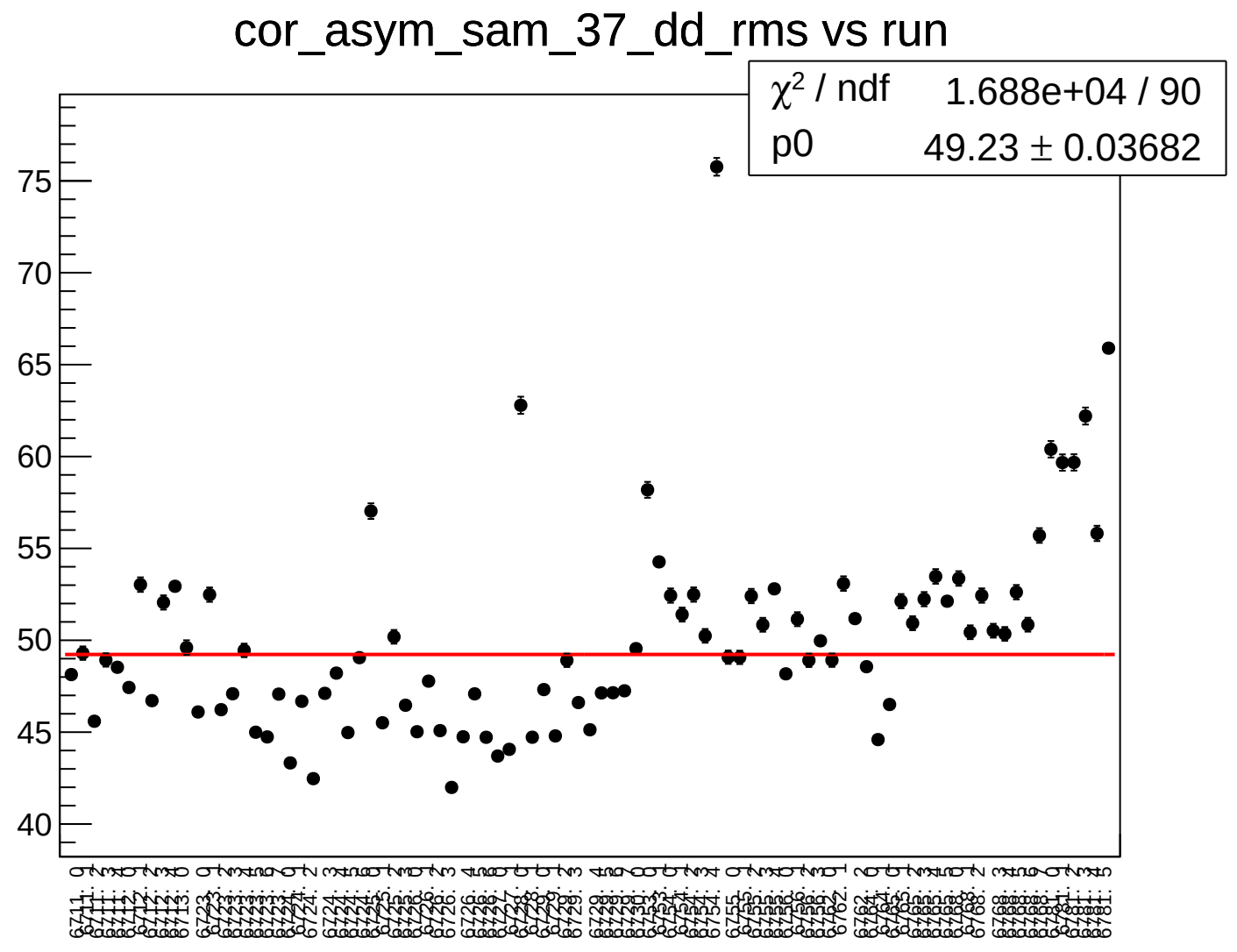

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 107.5 / 90
p0 19.43 ± 202.6
pull
Entries 91
Mean 34.39
Std Dev 57.75

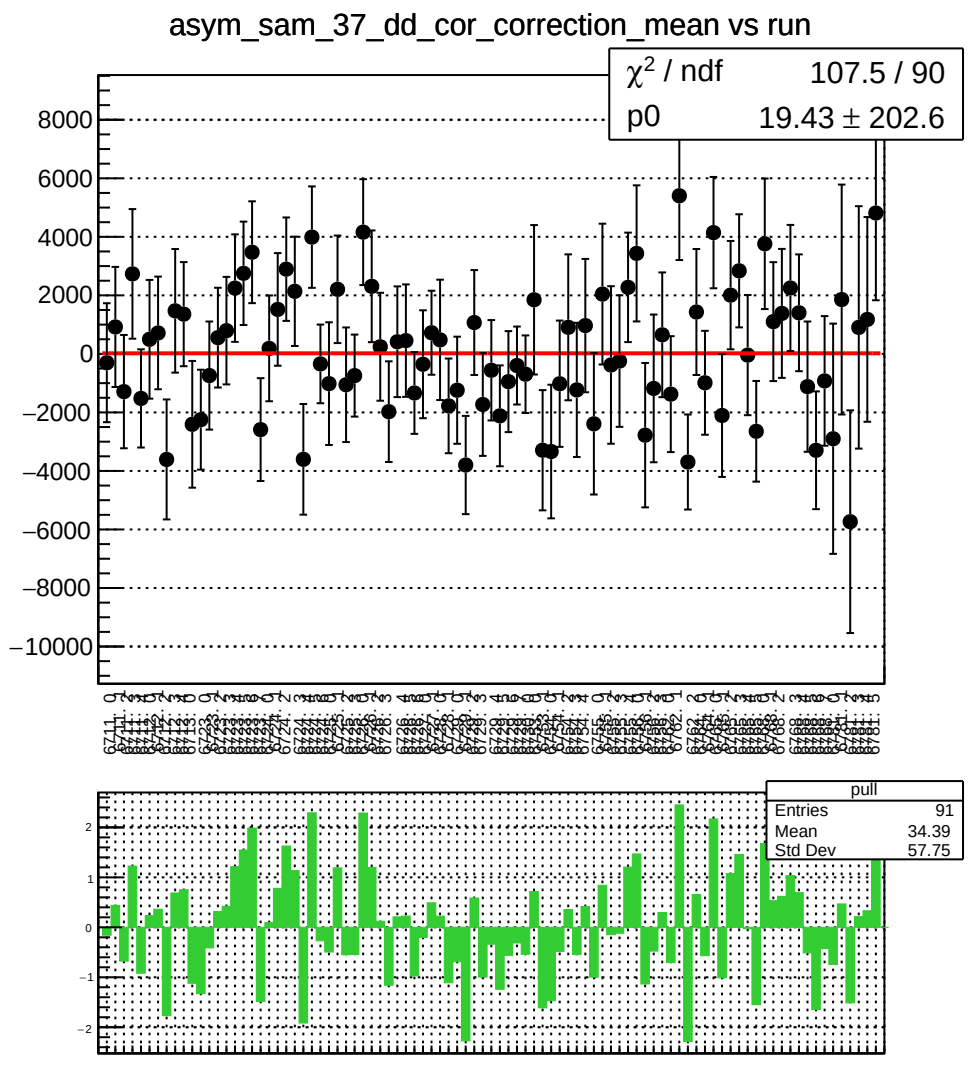

pull1D
Entries 91
Mean 0.02132
Std Dev 1.087

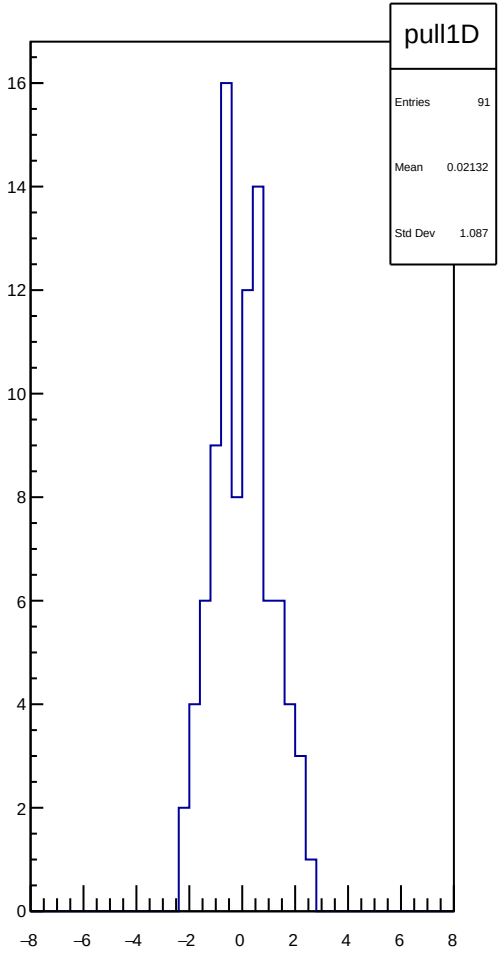

asym_sam_37_dd_reg_correction_rms vs run
χ^2 / ndf 5.358e+04 / 90
p0 189.5 ± 0.1432
400
350
300
250
200
150

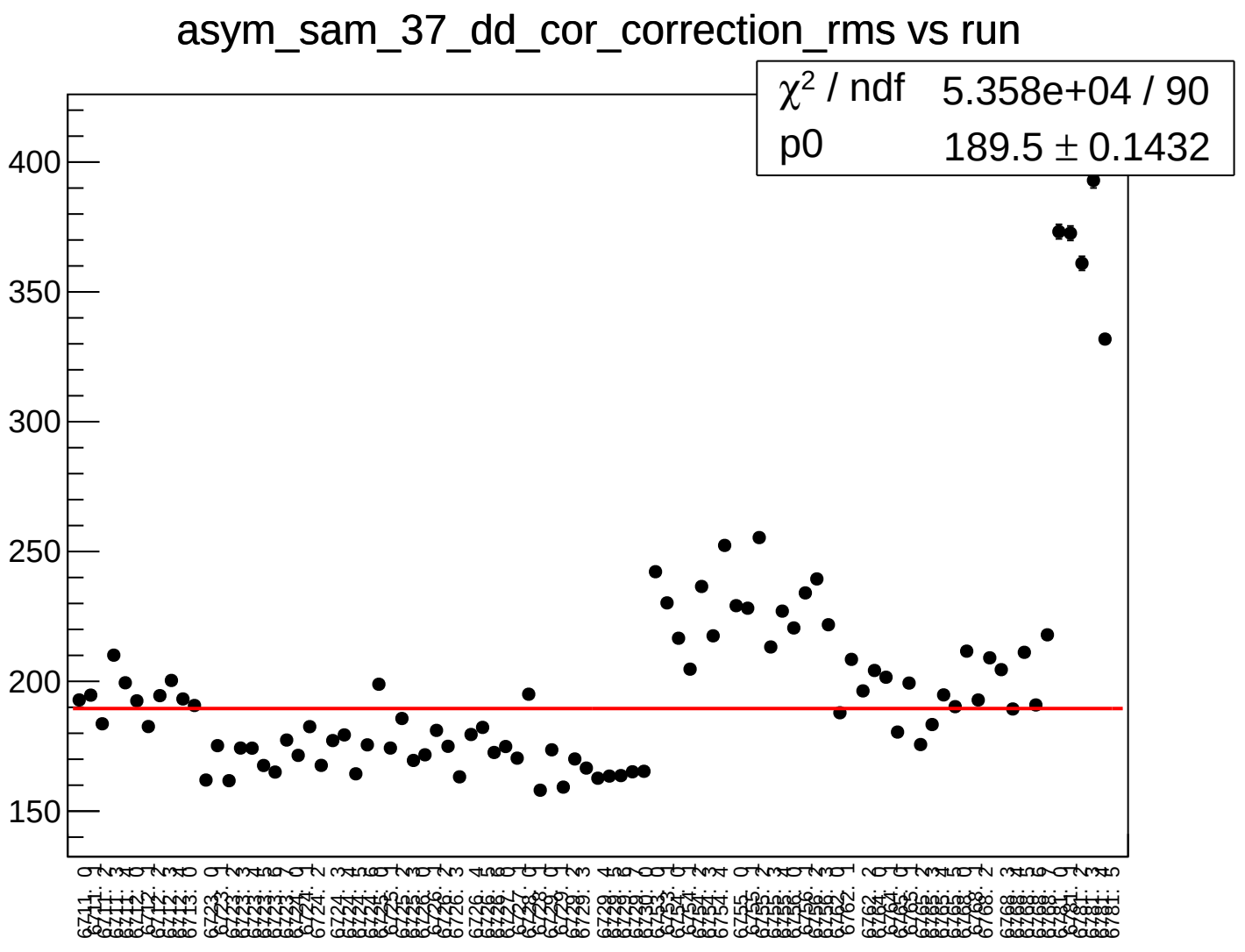

cor_asym_sam_37_dd_mean vs run
χ^2 / ndf 67.01 / 90
p0 104 ± 52.07
pull
Entries 91
Mean −249.2
Std Dev 0

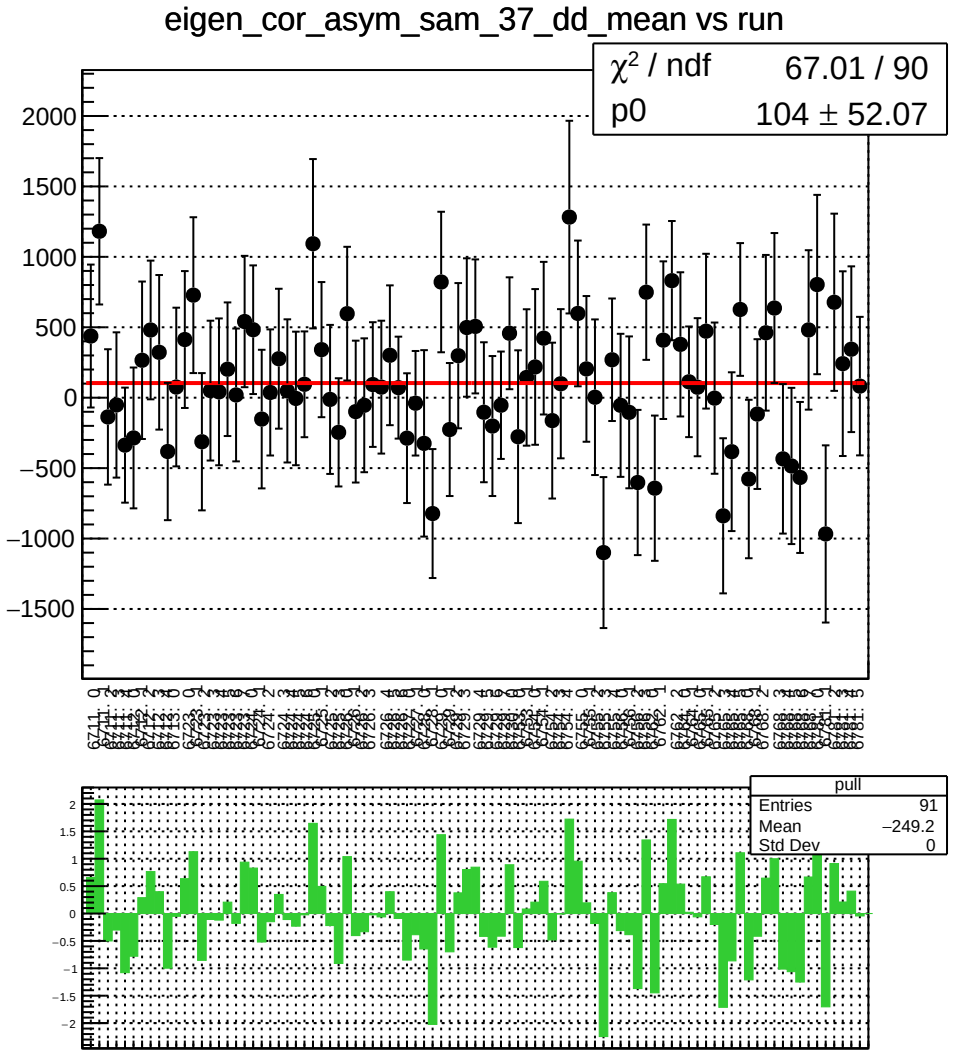

pull1D
Entries 91
Mean 0.005818
Std Dev 0.8581

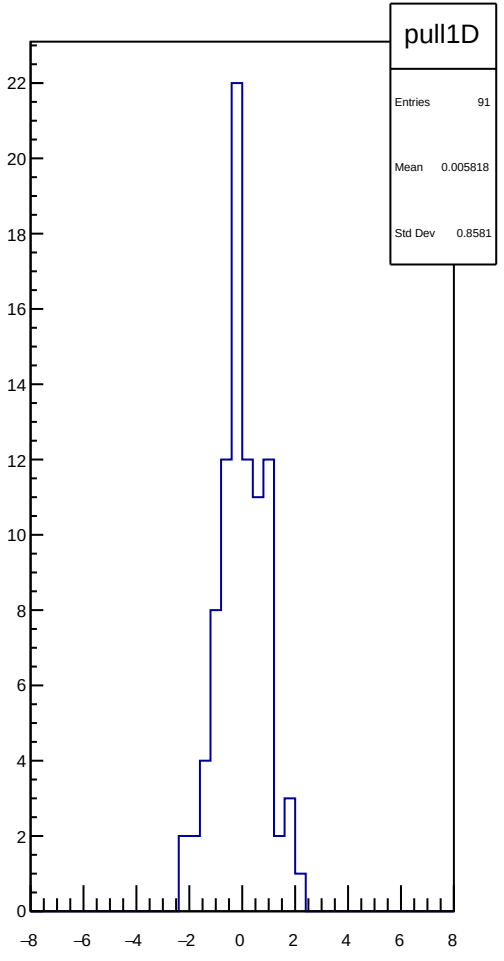

cor_asym_sam_37_dd_rms vs run
χ^2 / ndf 1.688e+04 / 90
p0 49.23 ± 0.03682
75
70
65
60
55
50
45
40

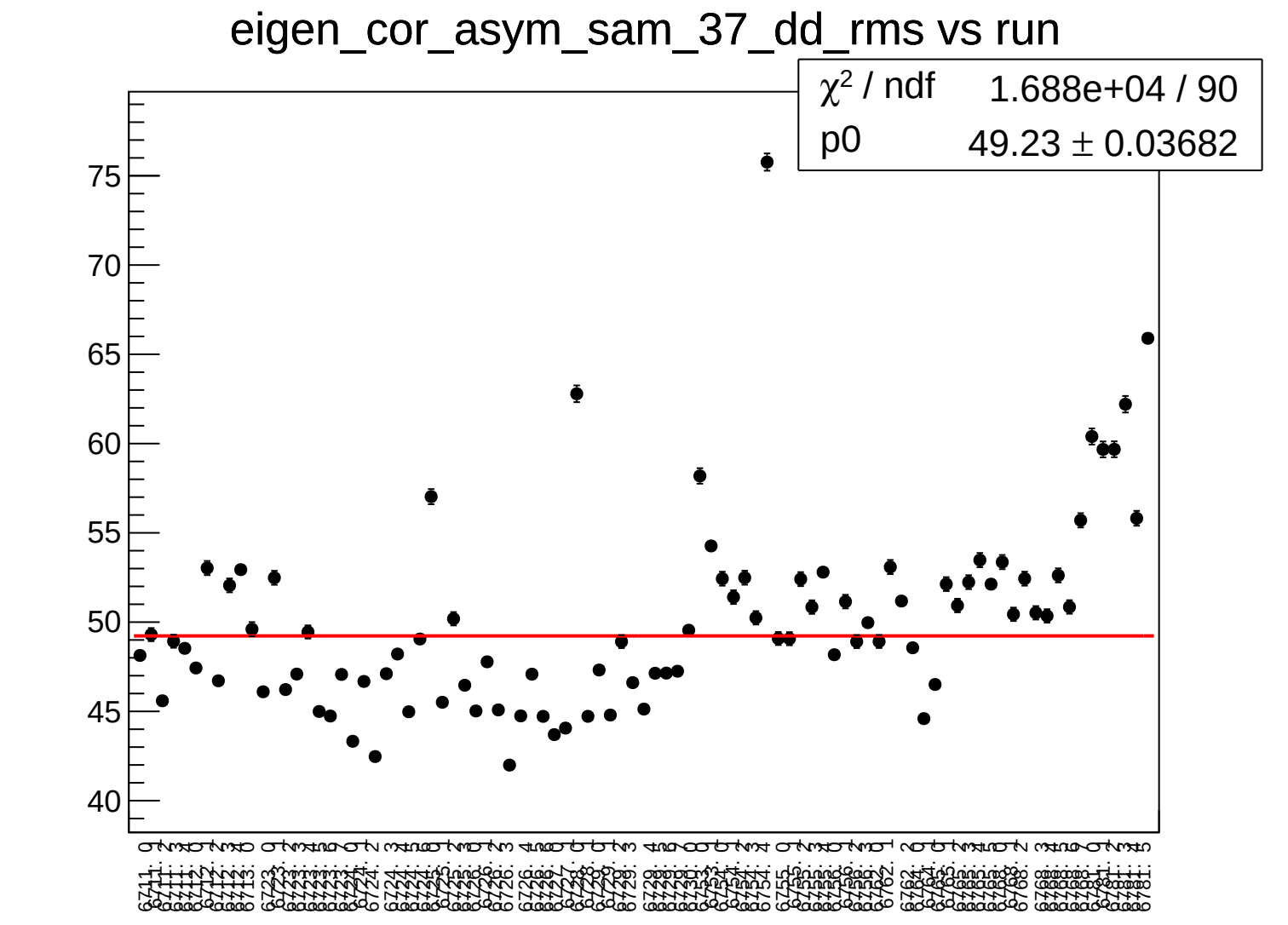

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 107.5 / 90
p0 19.43 ± 202.6
pull
Entries 91
Mean 34.39
Std Dev 57.75

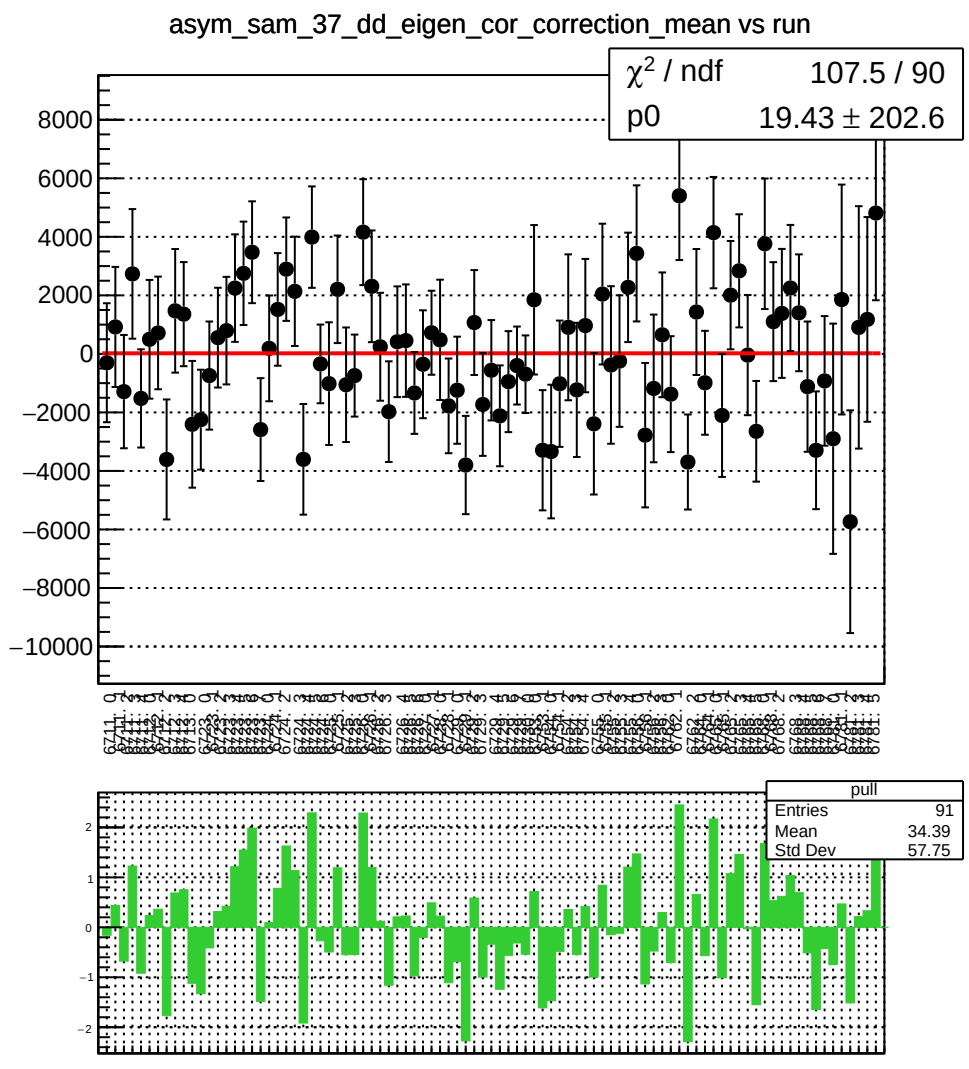

pull1D
Entries 91
Mean 0.02132
Std Dev 1.087

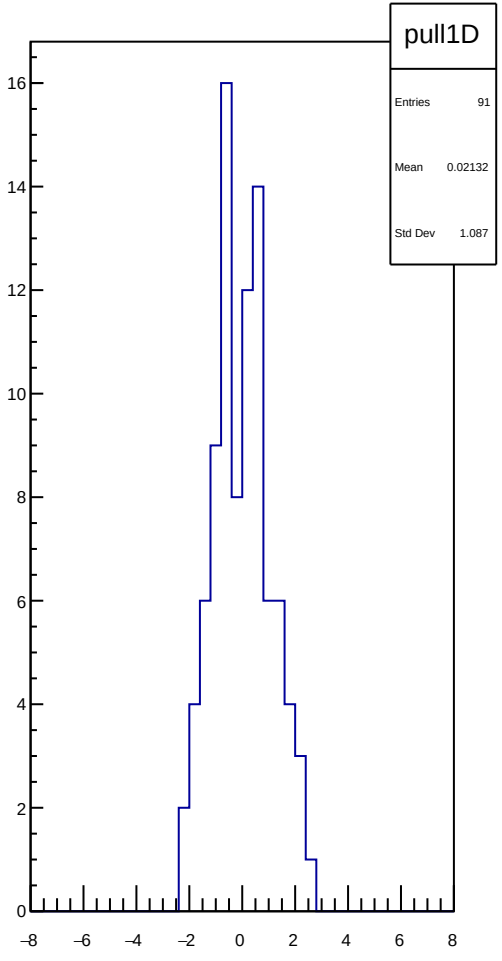

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 5.358e+04 / 90
p0 189.5 ± 0.1432
400
350
300
250
200
150

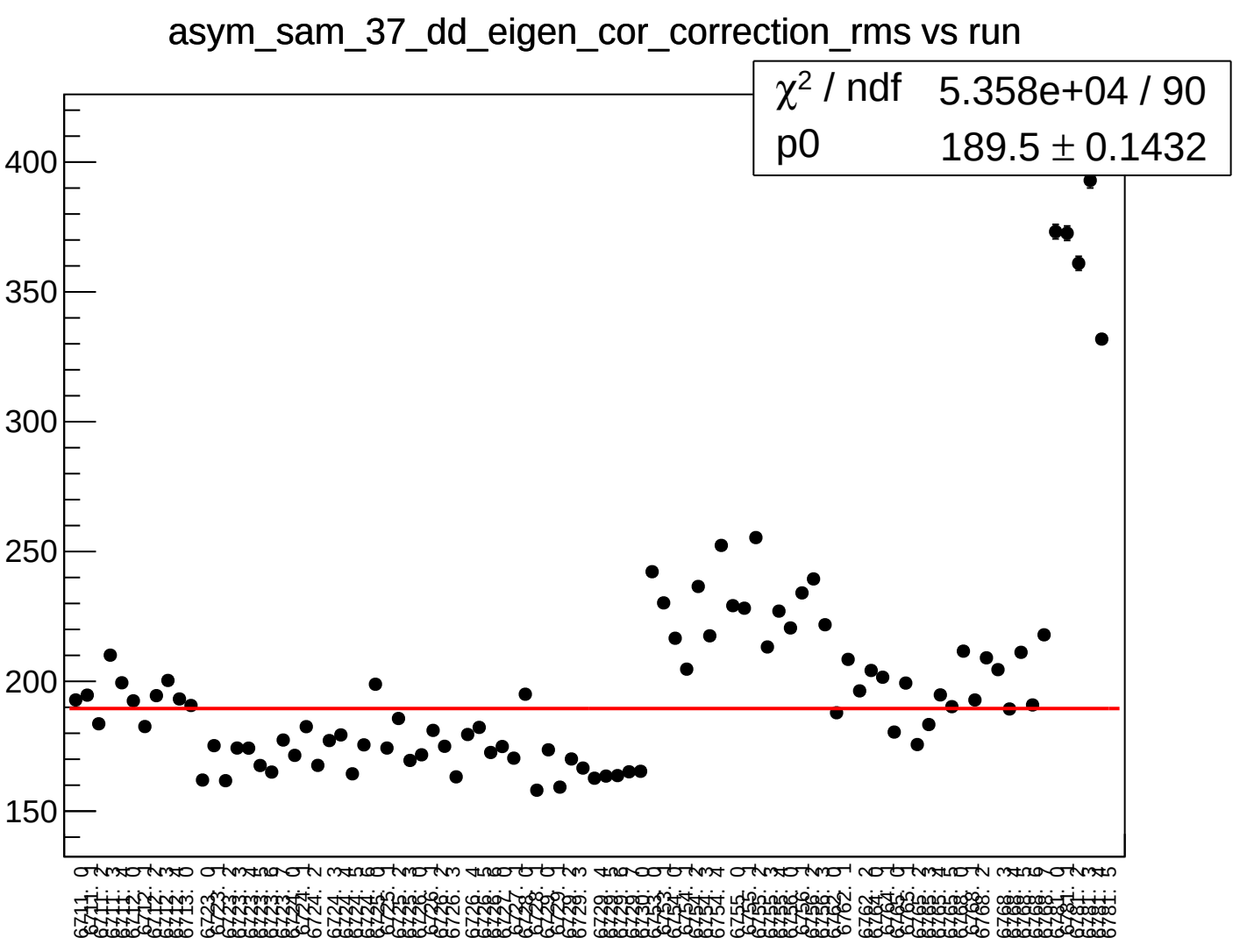

eigen_cor_asym_sam_37_dd_mean vs run
χ^2 / ndf 67.01 / 90
p0 104 ± 52.07
pull
Entries 91
Mean −249.2
Std Dev 0

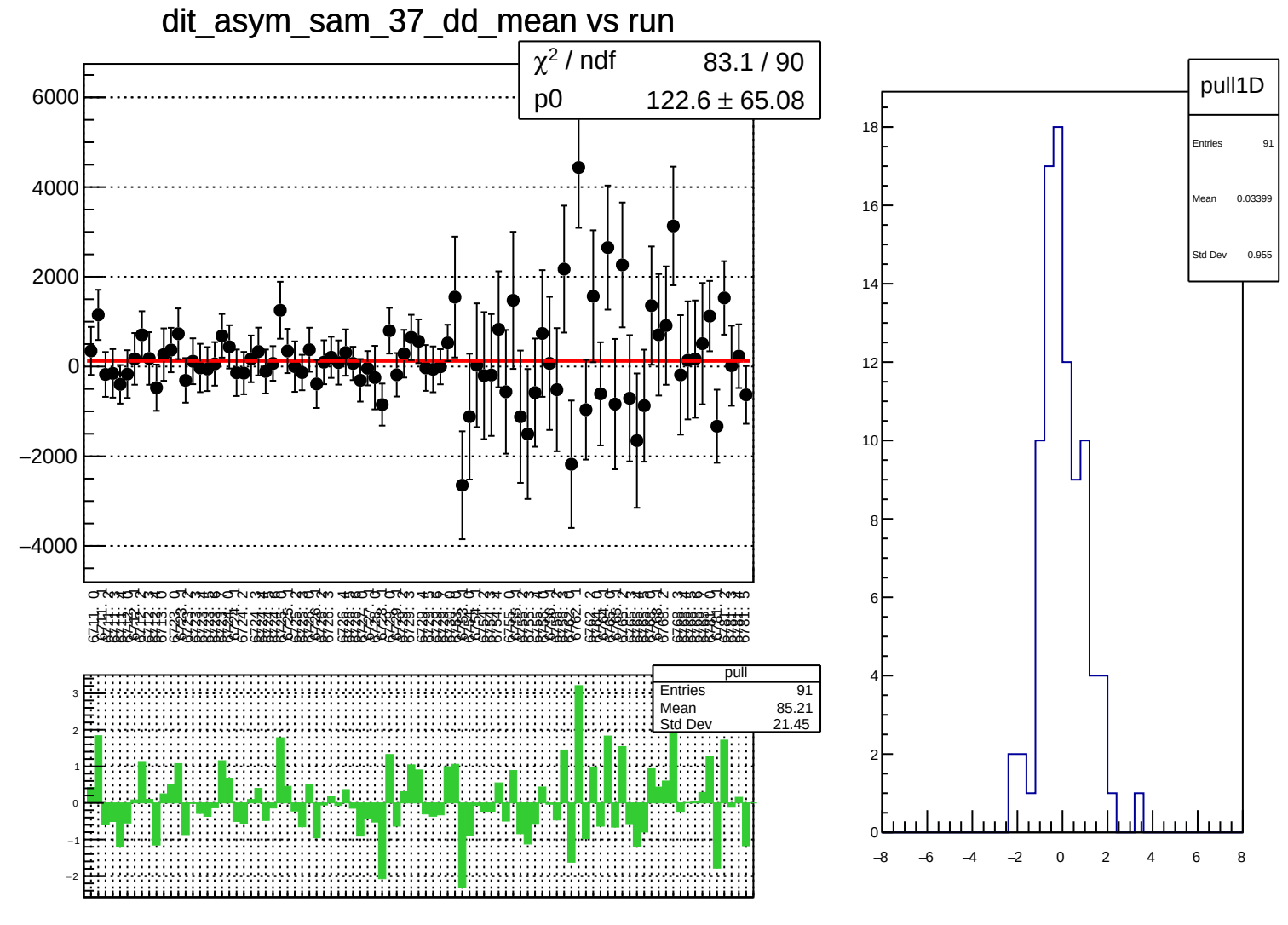

pull1D
Entries 91
Mean 0.005818
Std Dev 0.8581

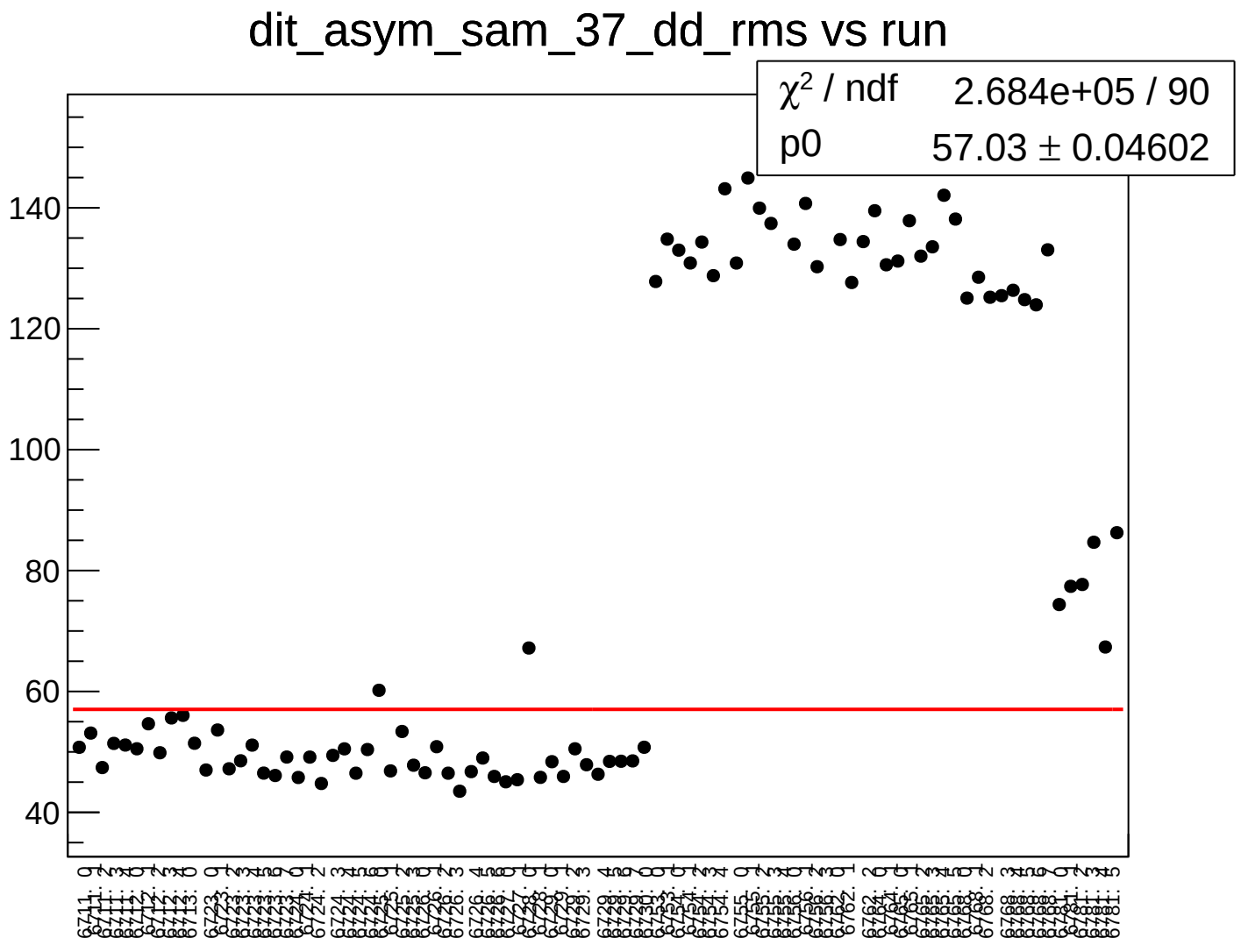

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.688e+04 / 90
p0 49.23 ± 0.03682
75
70
65
60
55
50
45
40

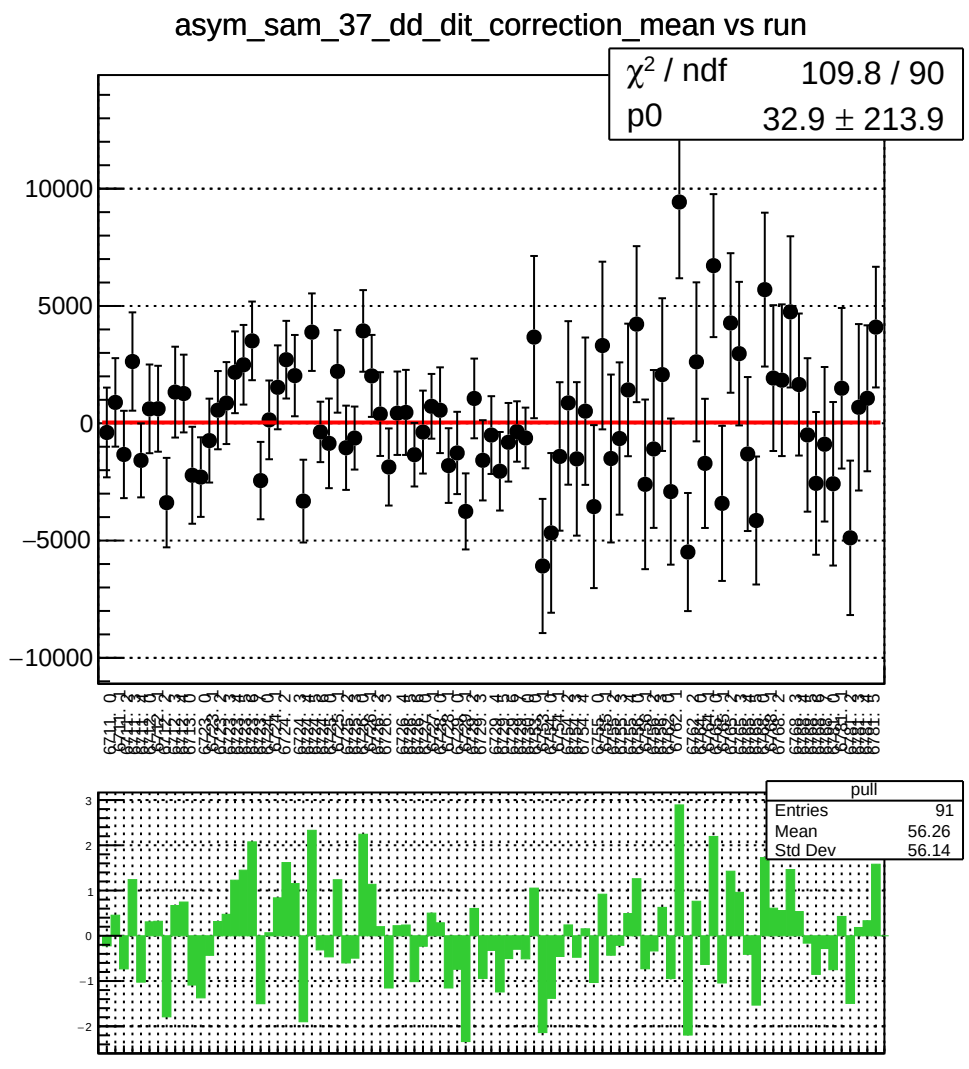

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 107.5 / 90
p0 19.43 ± 202.6
pull
Entries 91
Mean 34.39
Std Dev 57.75

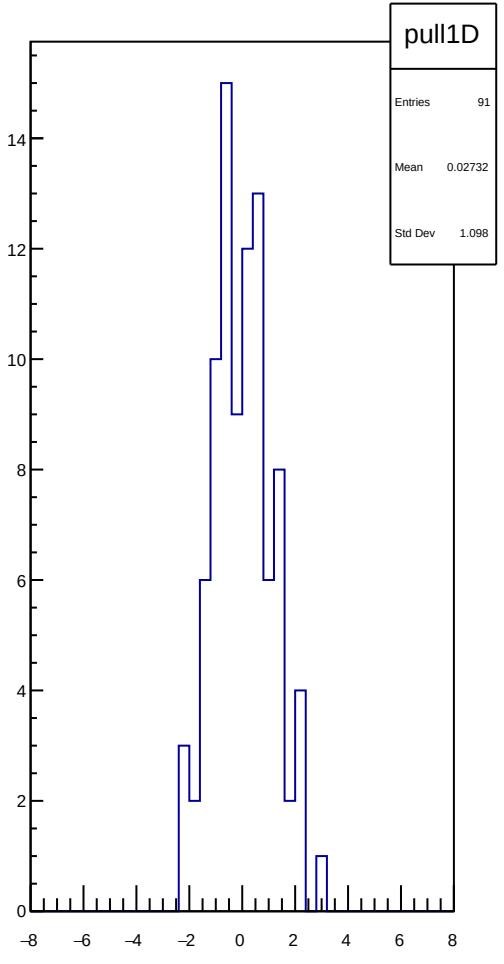

pull1D
Entries 91
Mean 0.02132
Std Dev 1.087

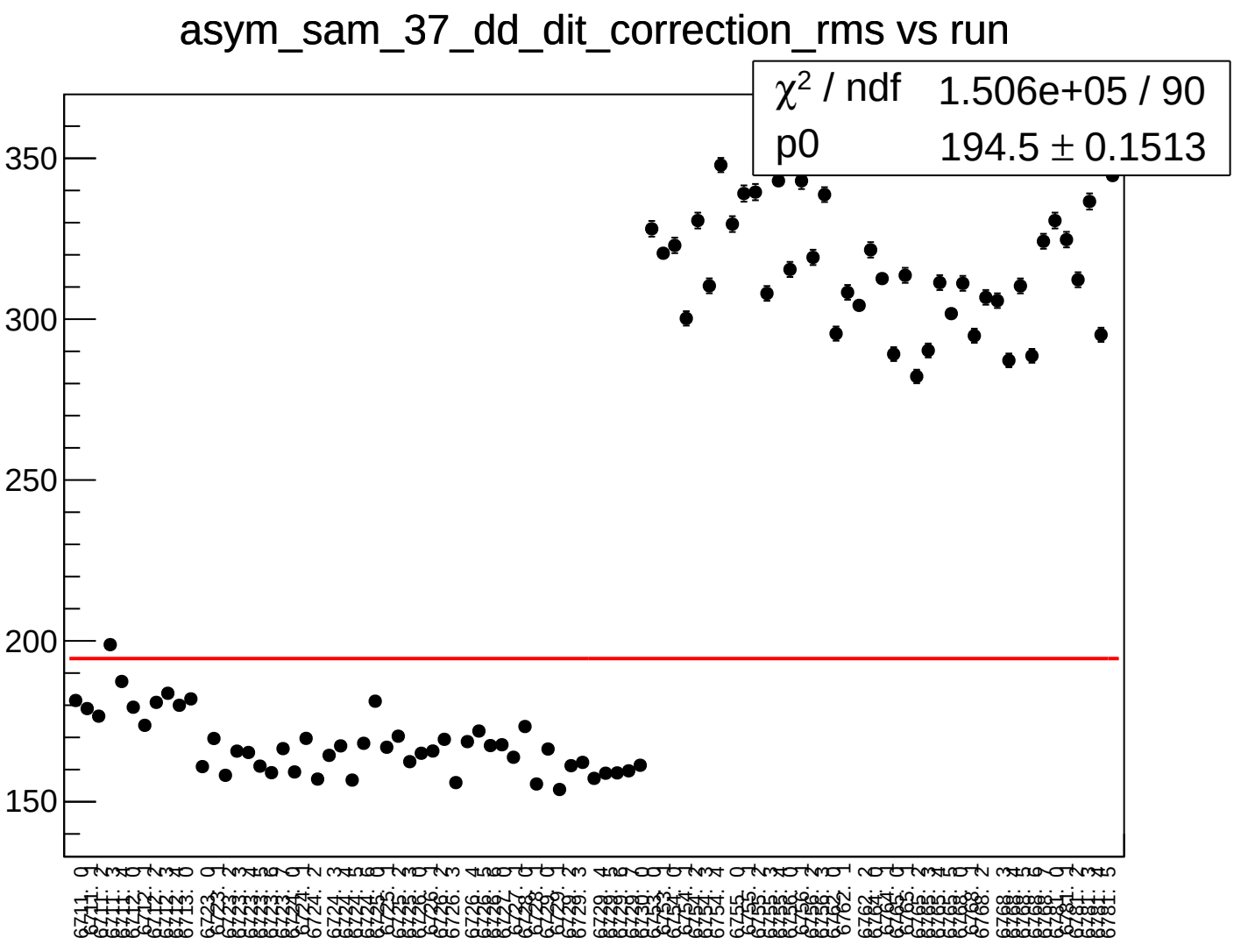

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 5.358e+04 / 90
p0 189.5 ± 0.1432
400
350
300
250
200
150

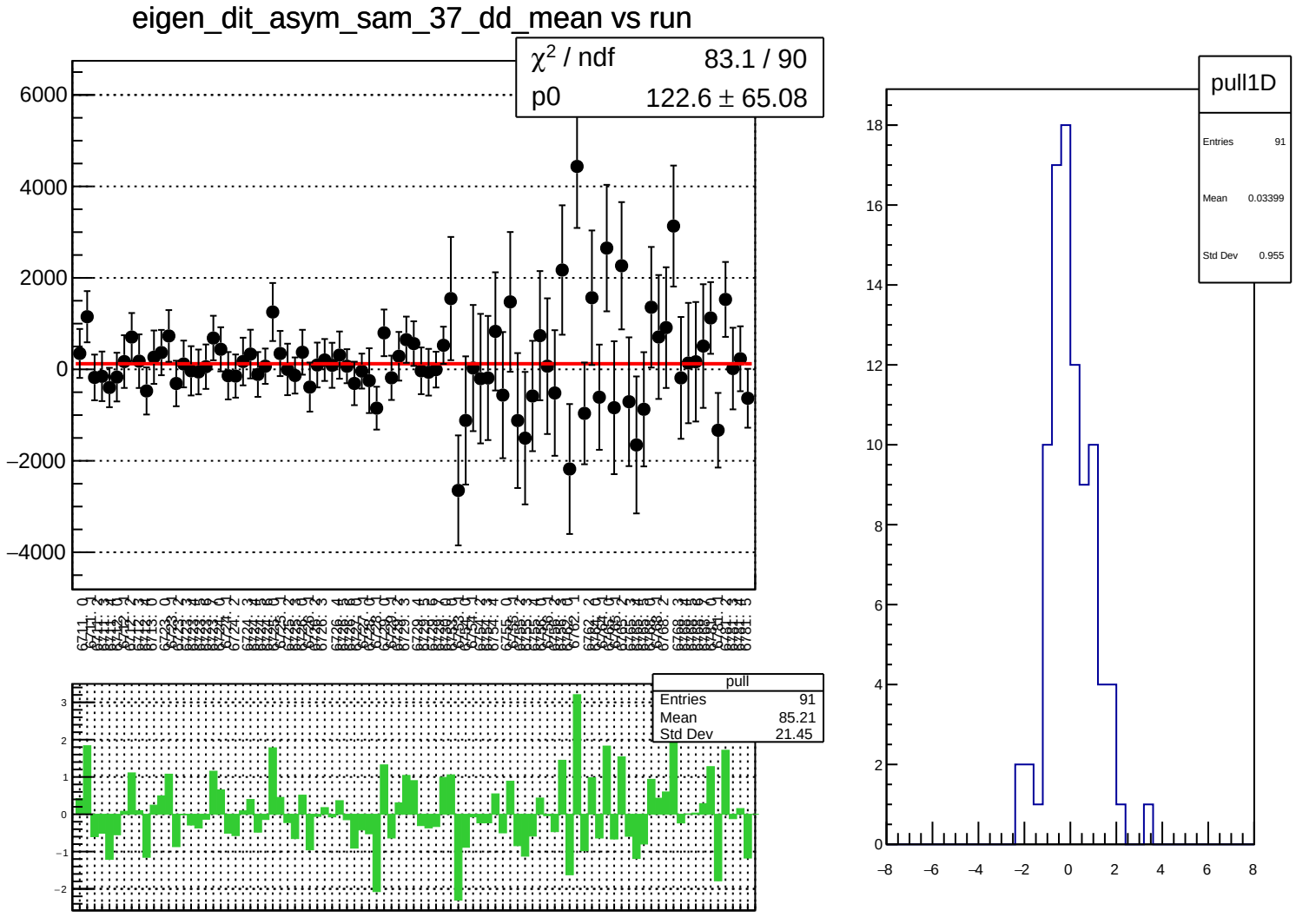

dit_asym_sam_37_dd_mean vs run
χ² / ndf 83.1 / 90
p0 122.6 ± 65.08
pull
Entries 91
Mean 85.21
Std Dev 21.45
pull1D
Entries 91
Mean 0.03399
Std Dev 0.955

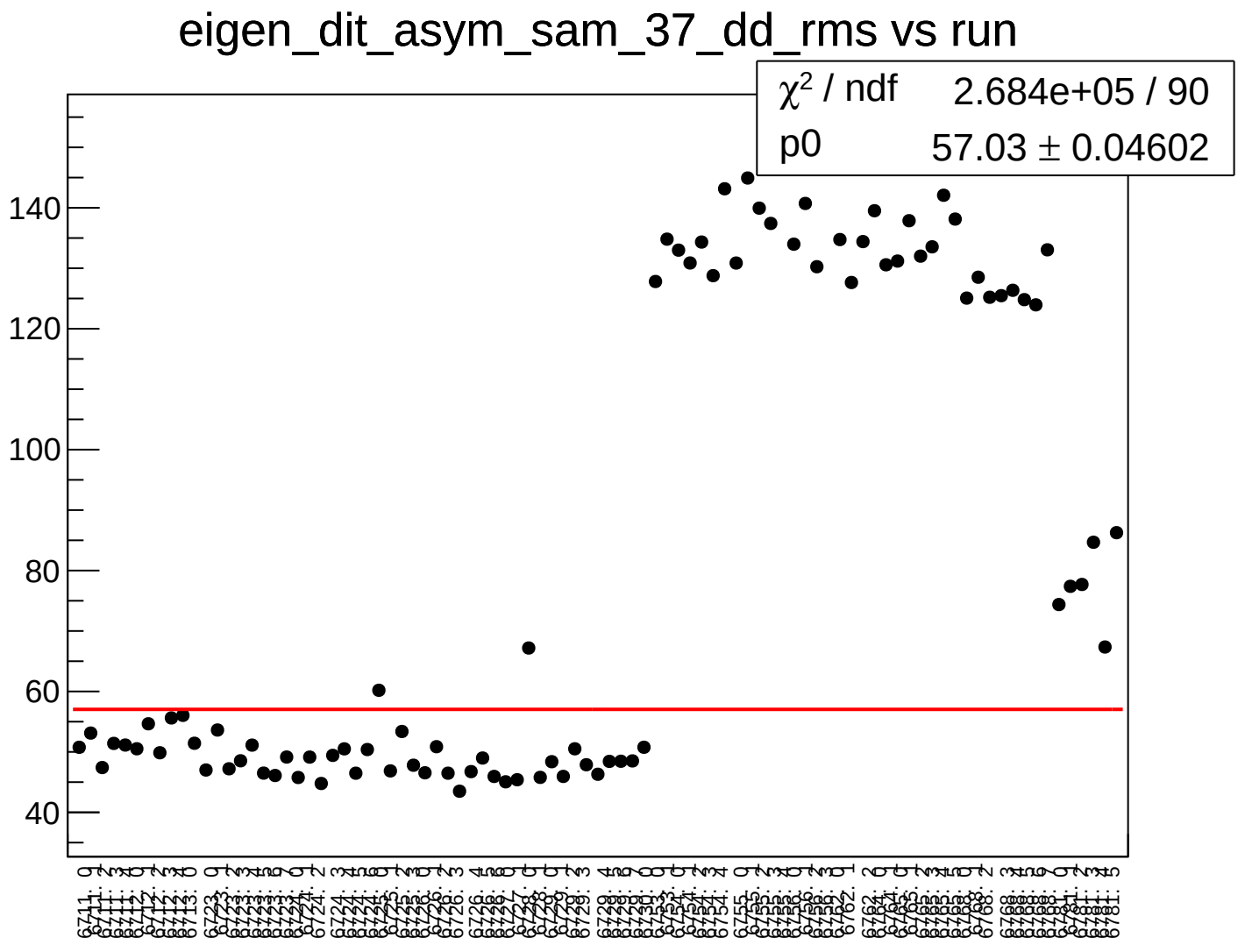

dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 2.684e+05 / 90
p0 57.03 ± 0.04602
140
120
100
80
60
40

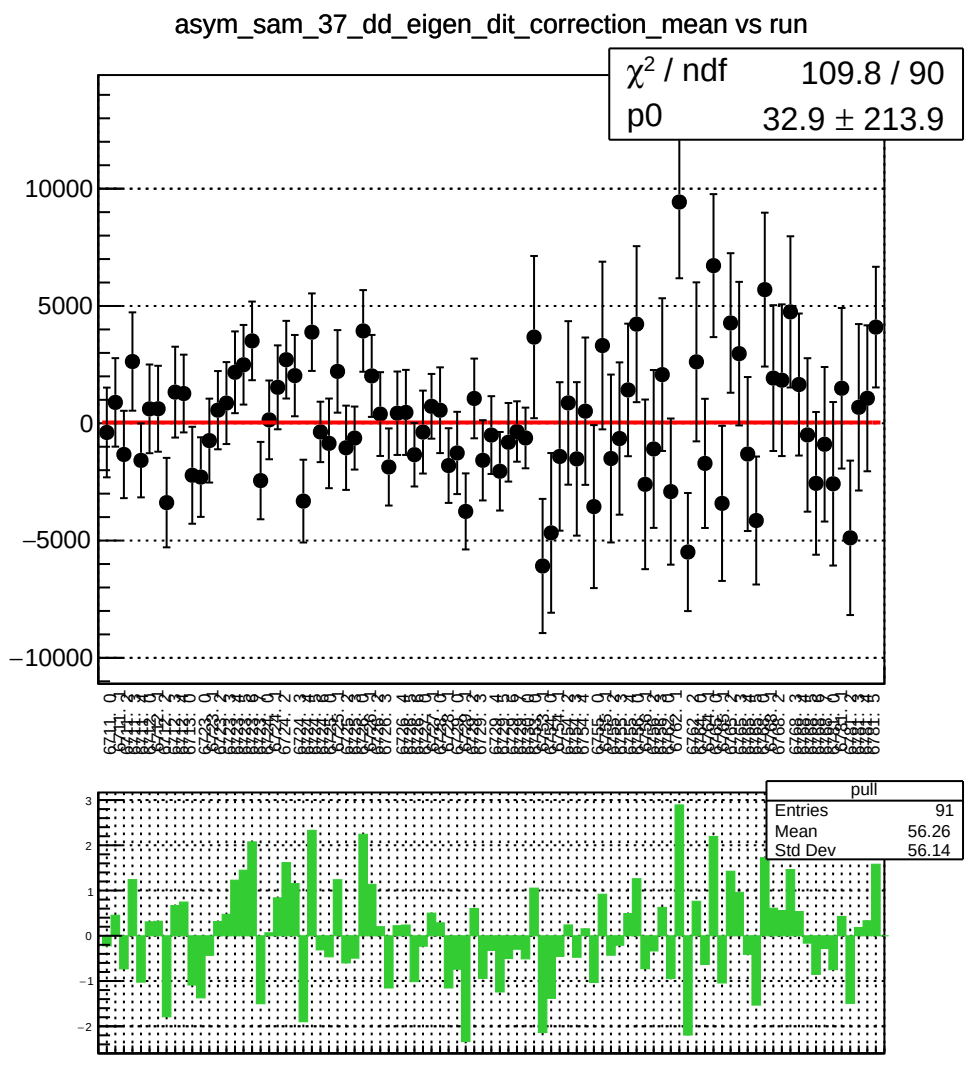

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 109.8 / 90
p0 32.9 ± 213.9
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 56.26
Std Dev 56.14
3
2
1
0
−1
−2

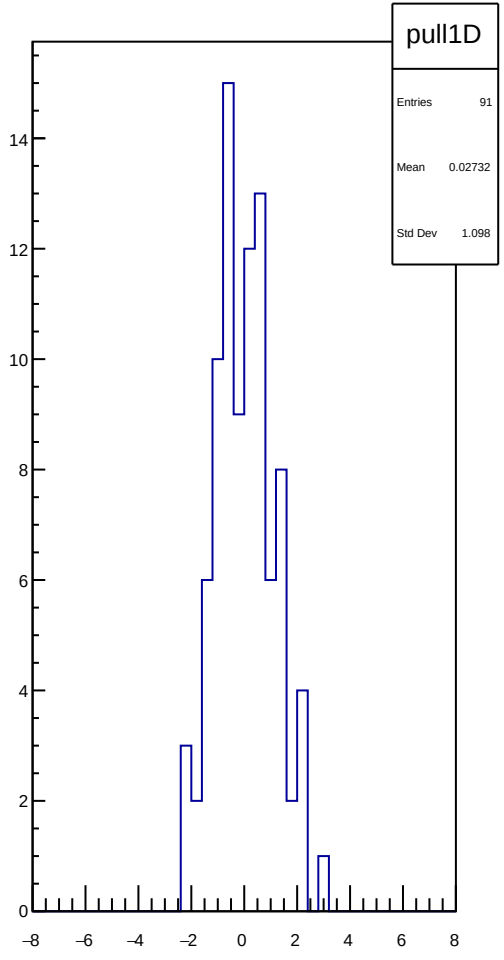

pull1D
Entries 91
Mean 0.02732
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

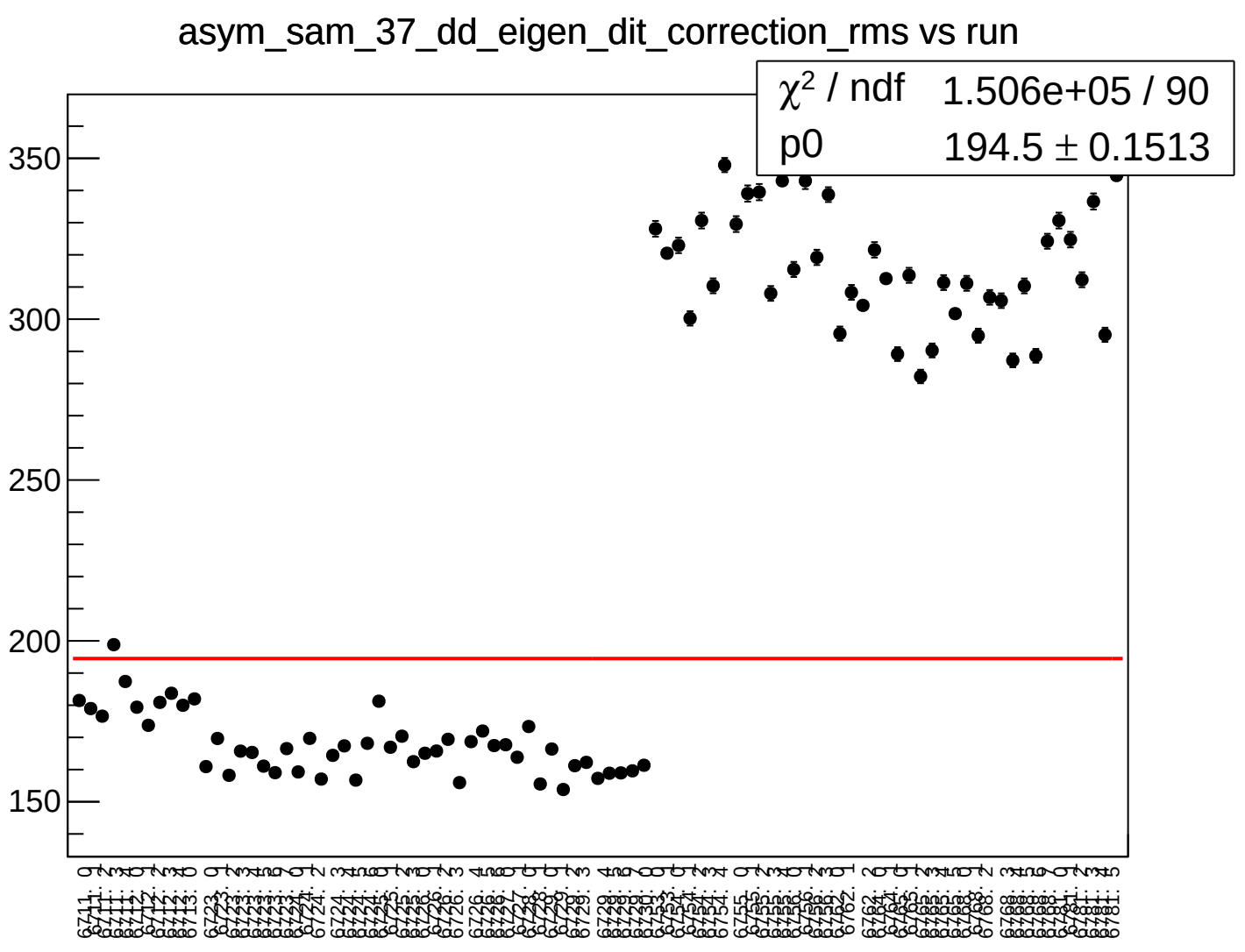

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 1.506e+05 / 90
p0 194.5 ± 0.1513
350
300
250
200
150

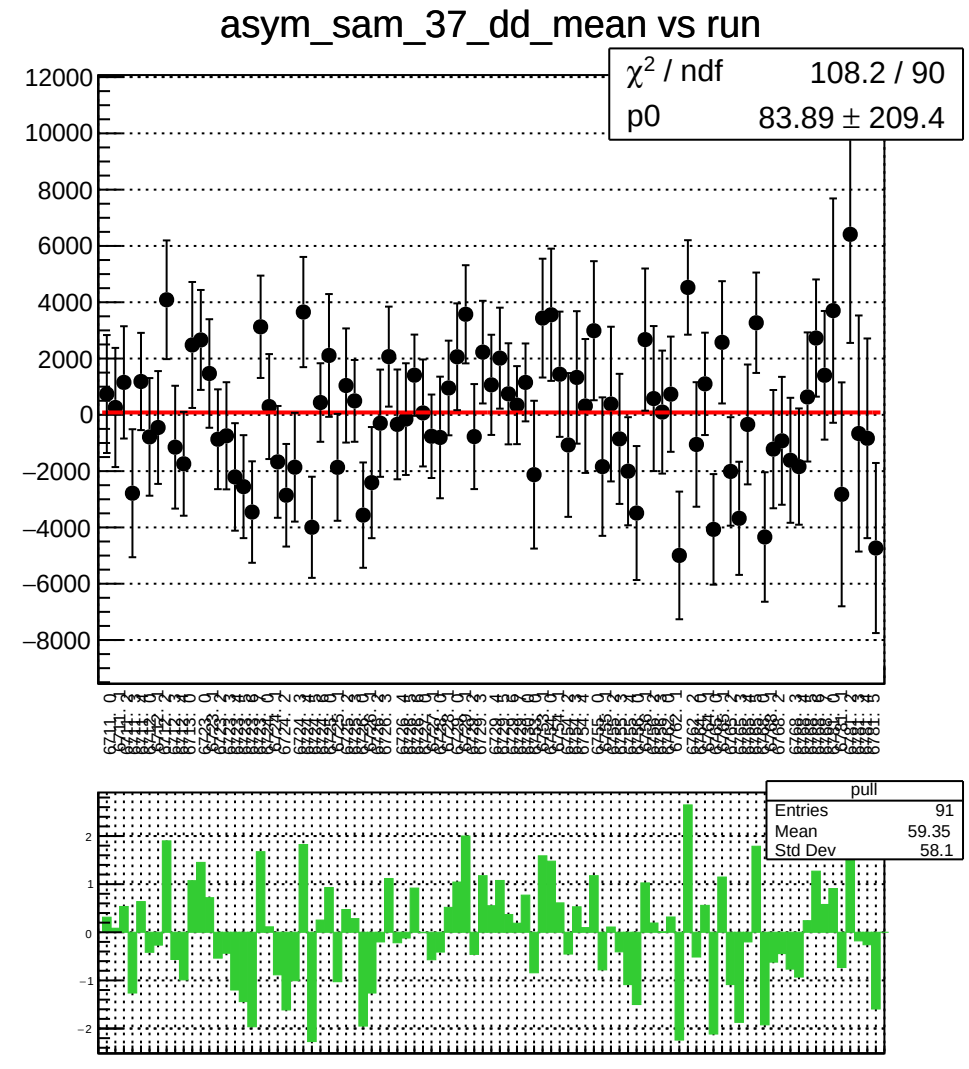

eigen_dit_asym_sam_37_dd_mean vs run
χ^2 / ndf 83.1 / 90
p0 122.6 ± 65.08
pull
Entries 91
Mean 85.21
Std Dev 21.45
pull1D
Entries 91
Mean 0.03399
Std Dev 0.955

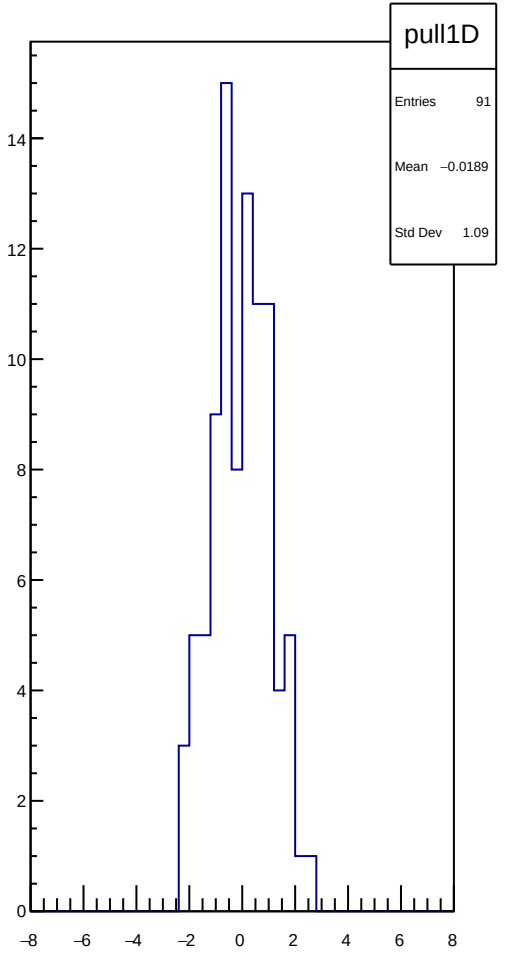

eigen_dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 2.684e+05 / 90
p0 57.03 ± 0.04602
140
120
100
80
60
40

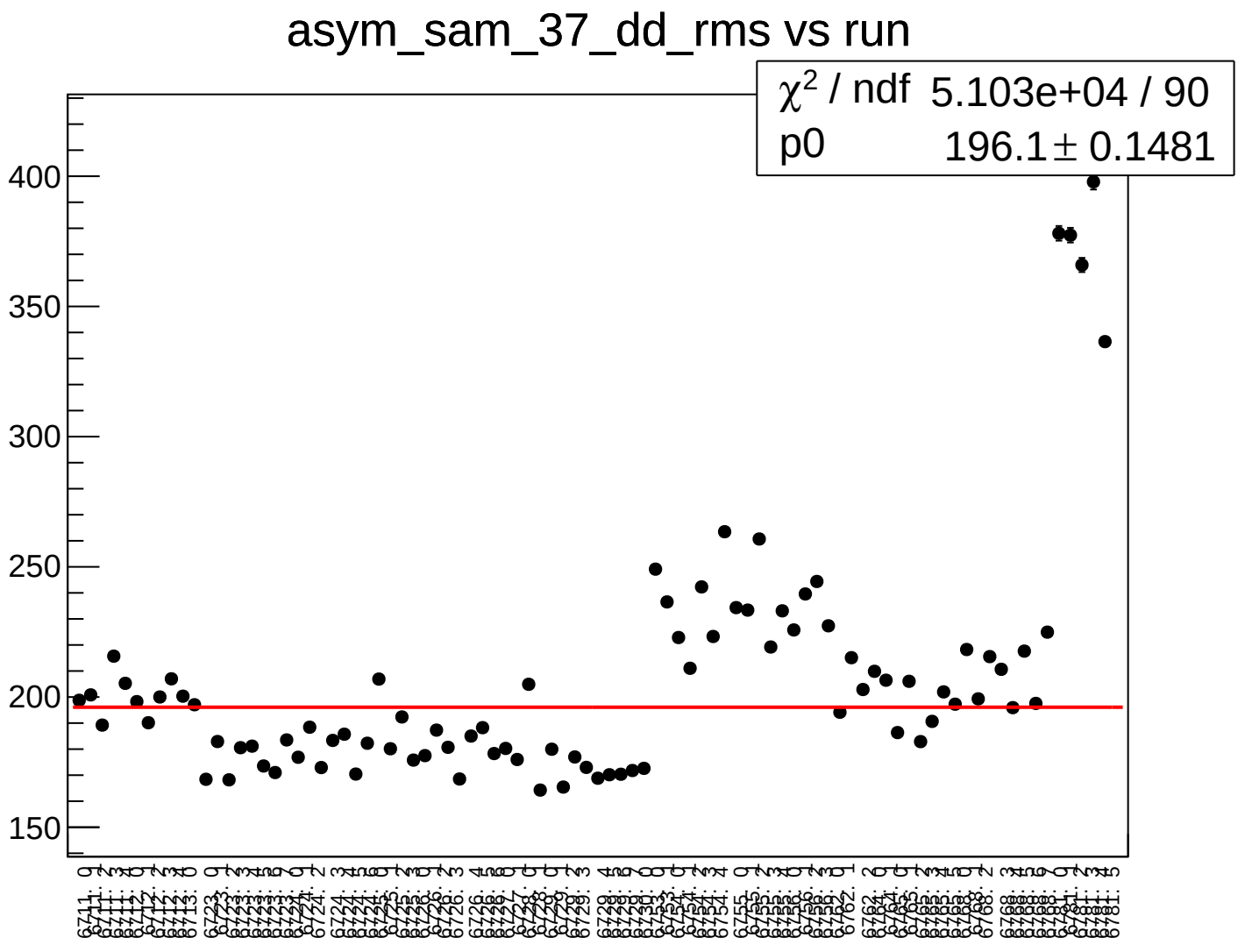

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 109.8 / 90
p0 32.9 ± 213.9
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 56.26
Std Dev 56.14
3
2
1
0
−1
−2

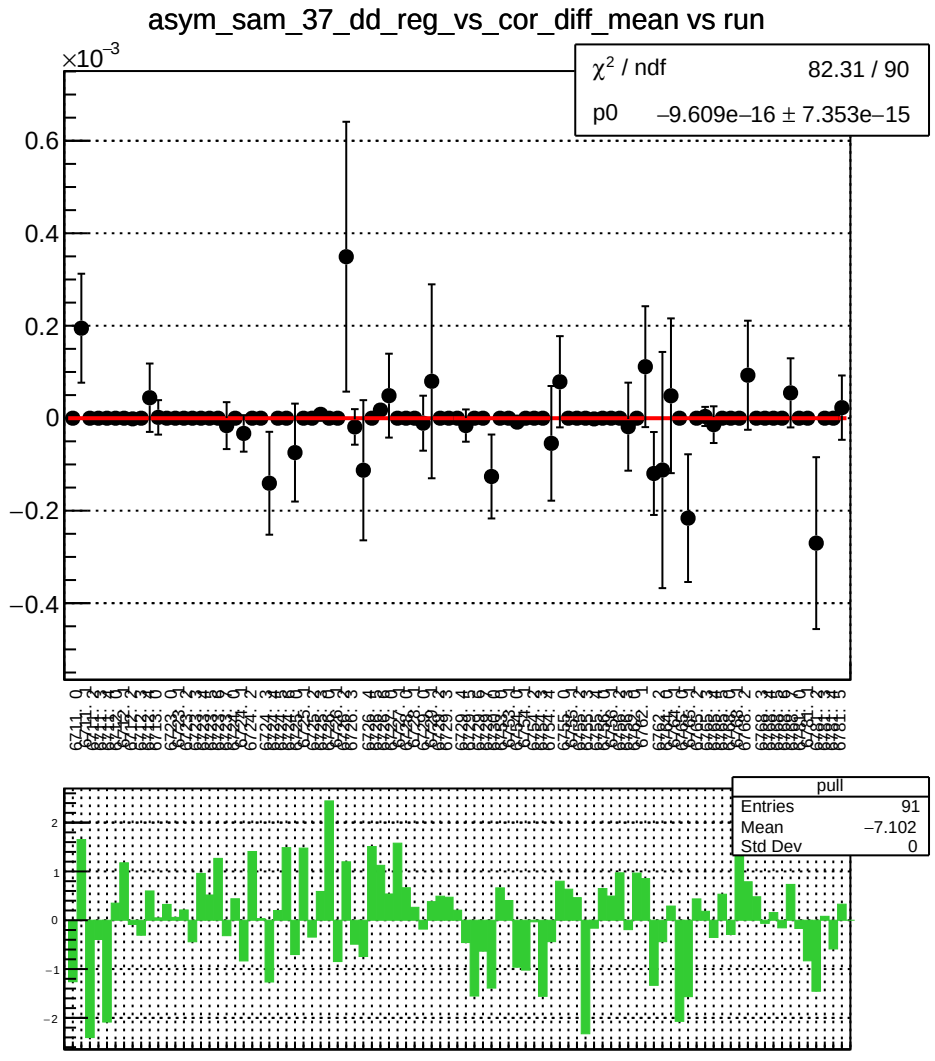

pull1D
Entries 91
Mean 0.02732
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

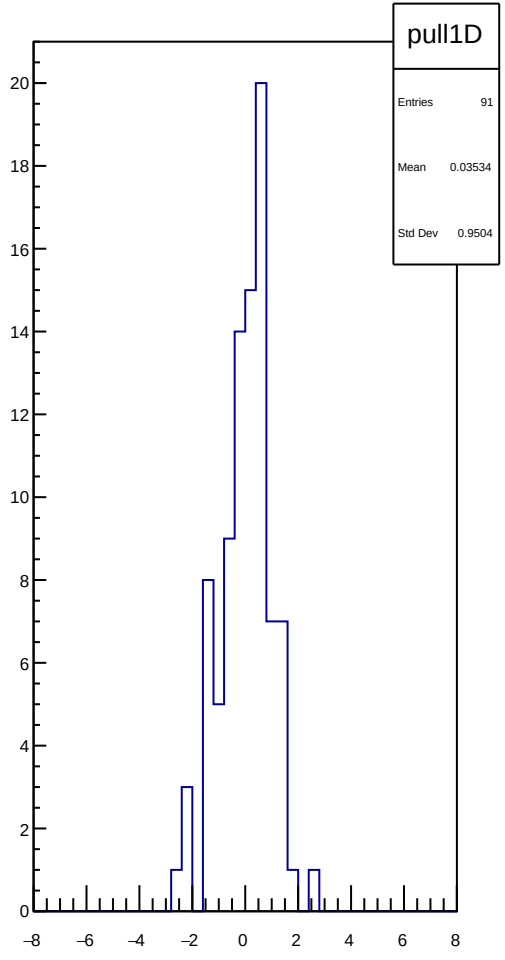

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.506e+05 / 90
p0 194.5 ± 0.1513
350
300
250
200
150

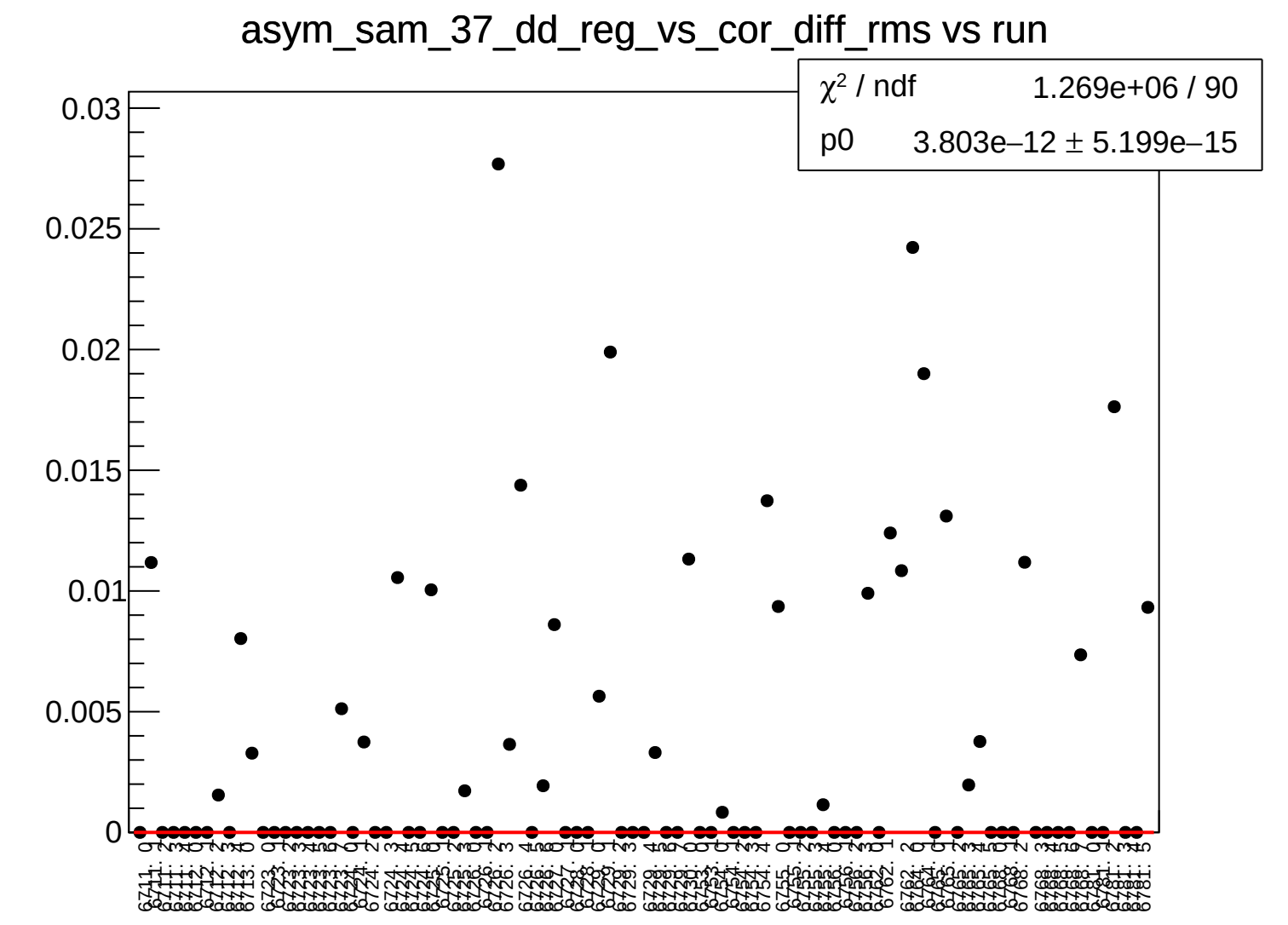

asym_sam_37_dd_mean vs run
χ² / ndf 108.2 / 90
p0 83.89 ± 209.4
pull
Entries 91
Mean 59.35
Std Dev 58.1

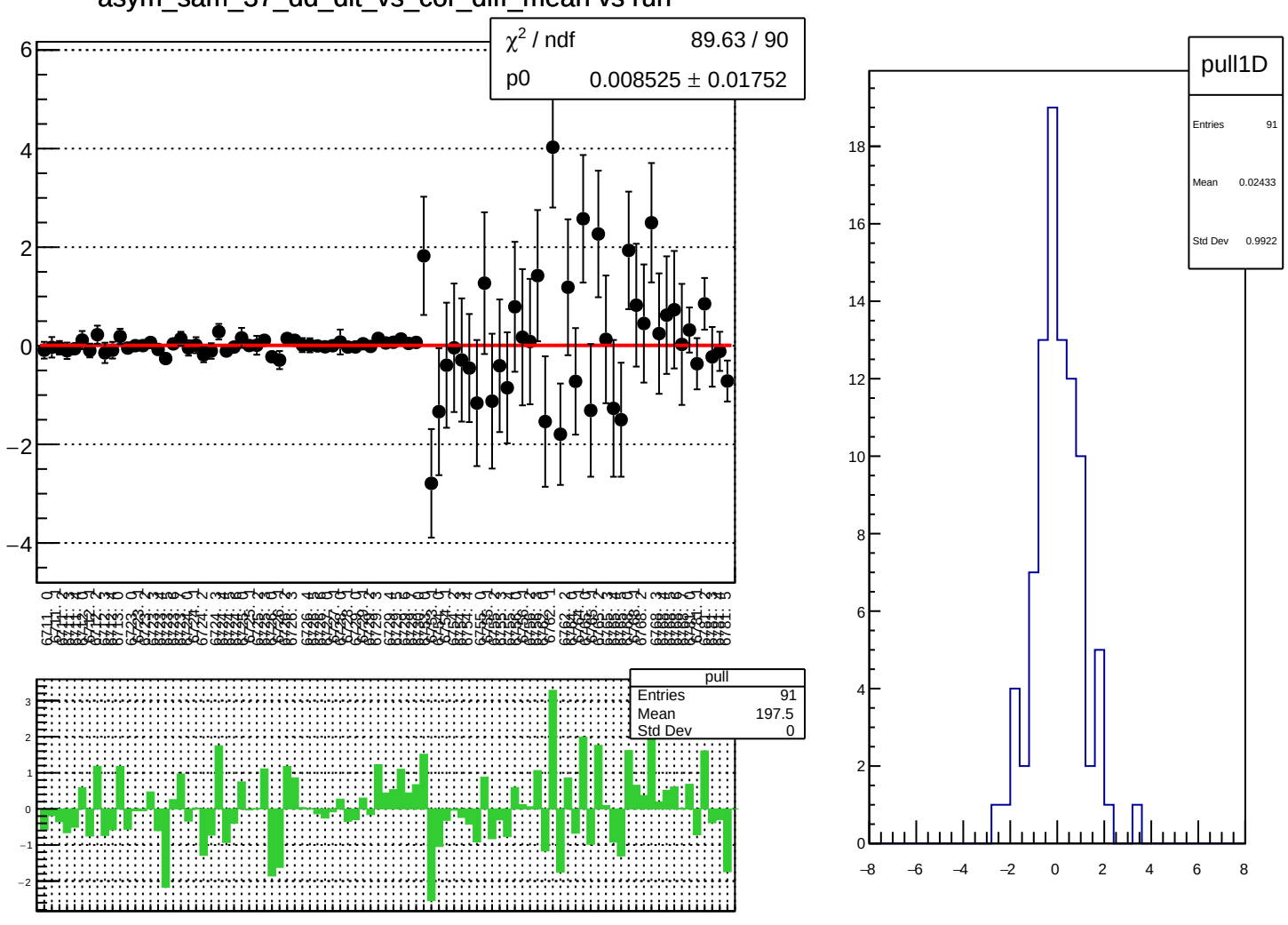

pull1D
Entries 91
Mean −0.0189
Std Dev 1.09

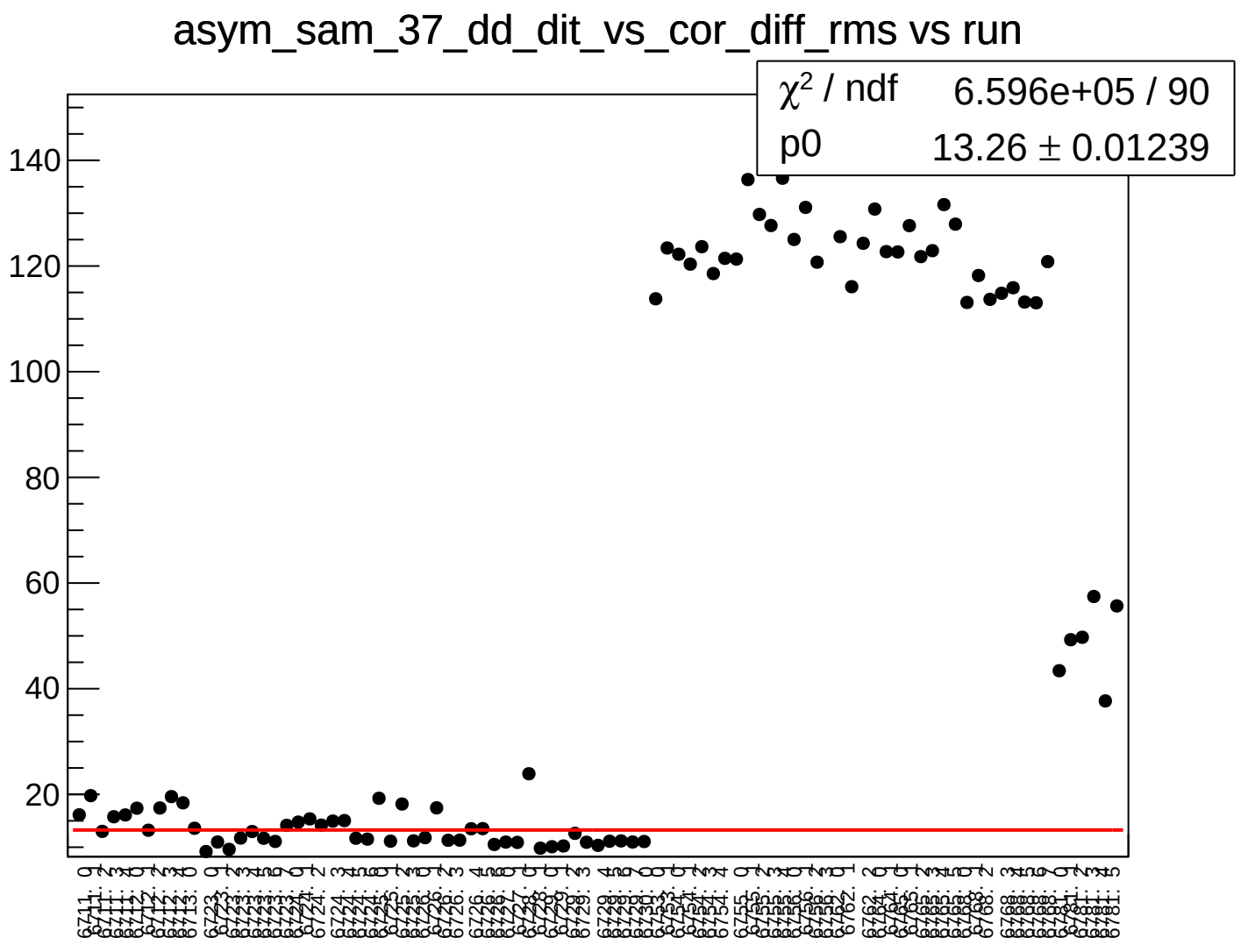

asym_sam_37_dd_rms vs run
χ^2 / ndf 5.103e+04 / 90
p0 196.1 ± 0.1481
400
350
300
250
200
150

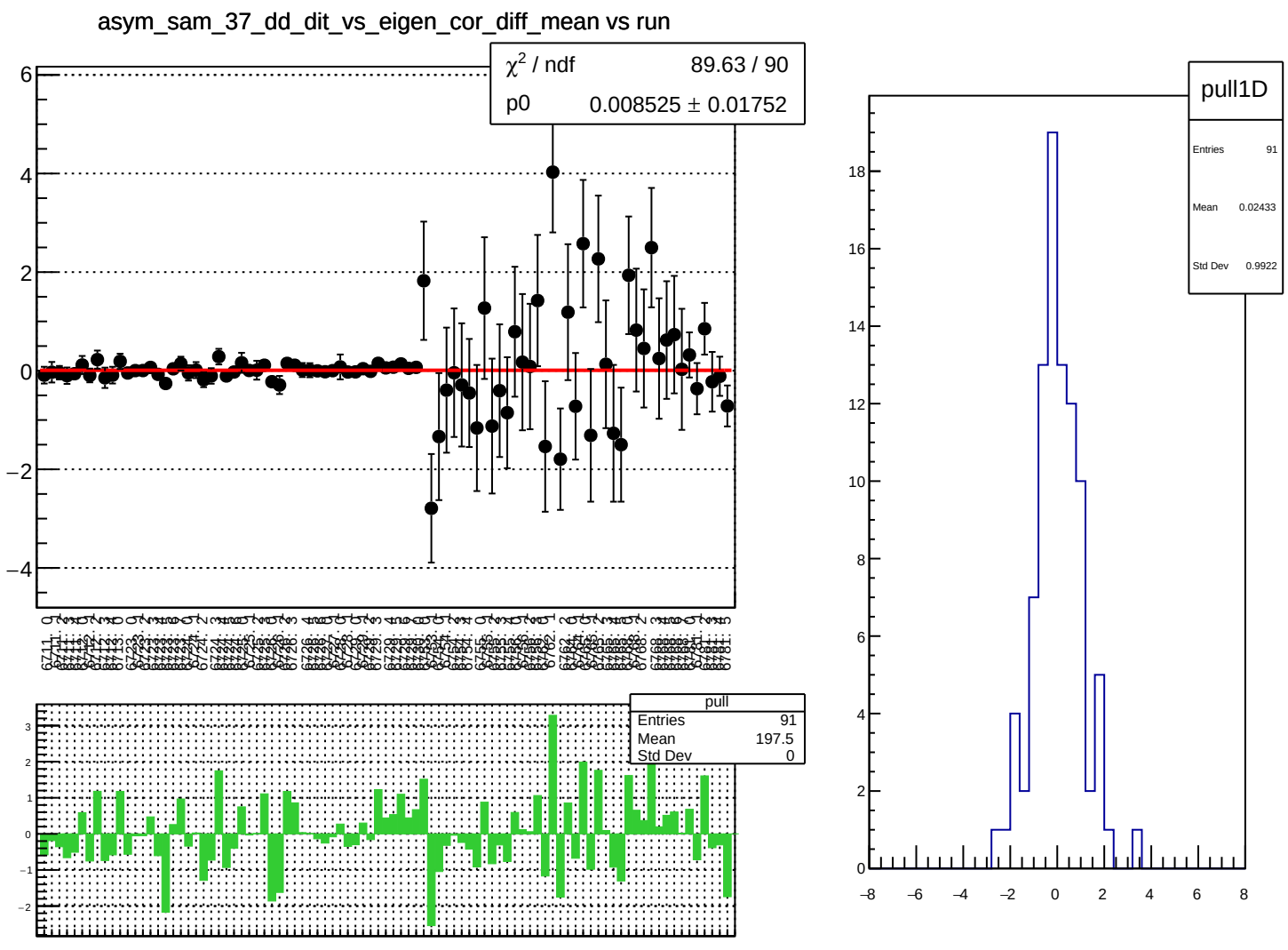

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 82.31 / 90
p0 −9.609e−16 ± 7.353e−15
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 91
Mean −7.102
Std Dev 0
2
1
0
−1
−2

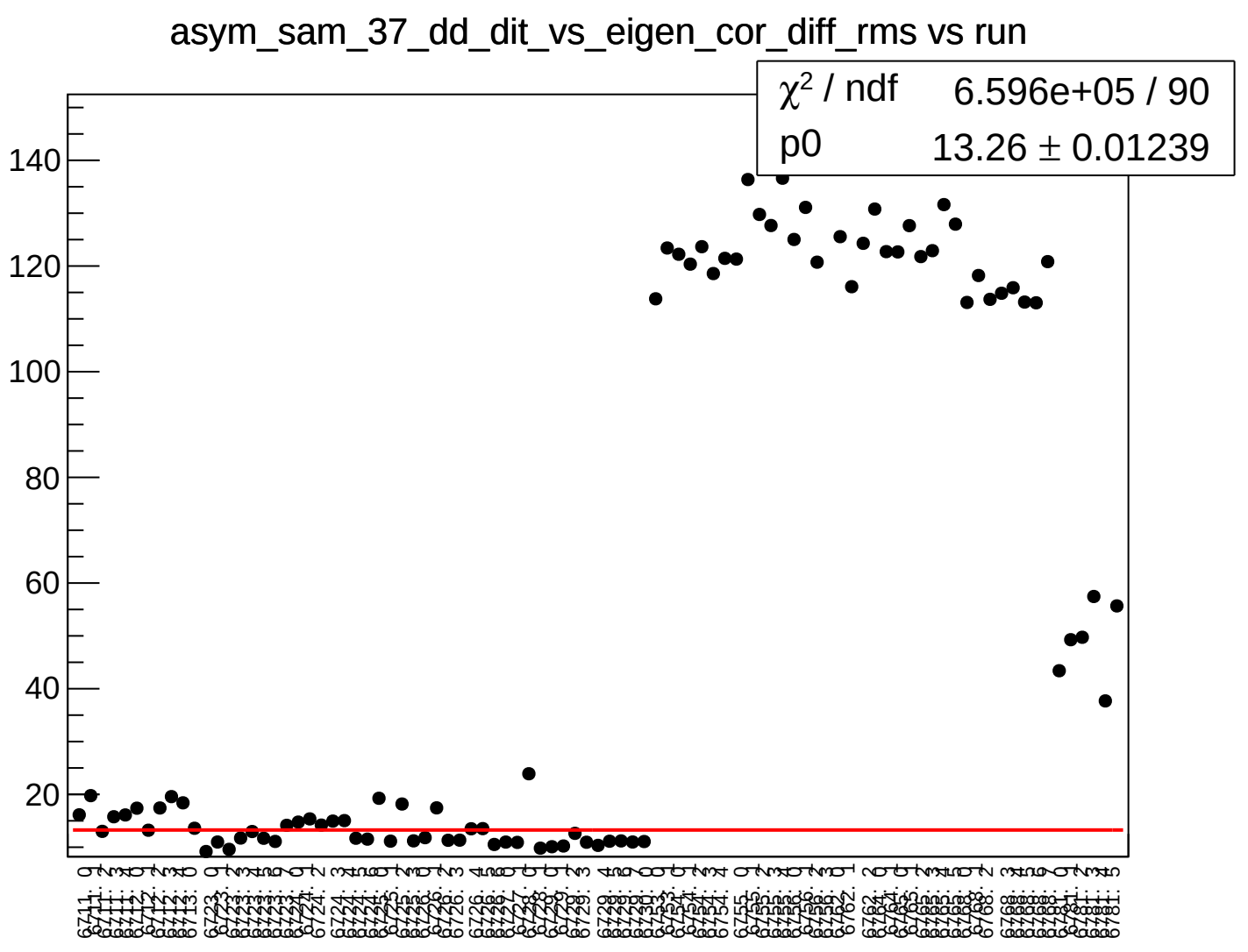

pull1D
Entries 91
Mean 0.03534
Std Dev 0.9504
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

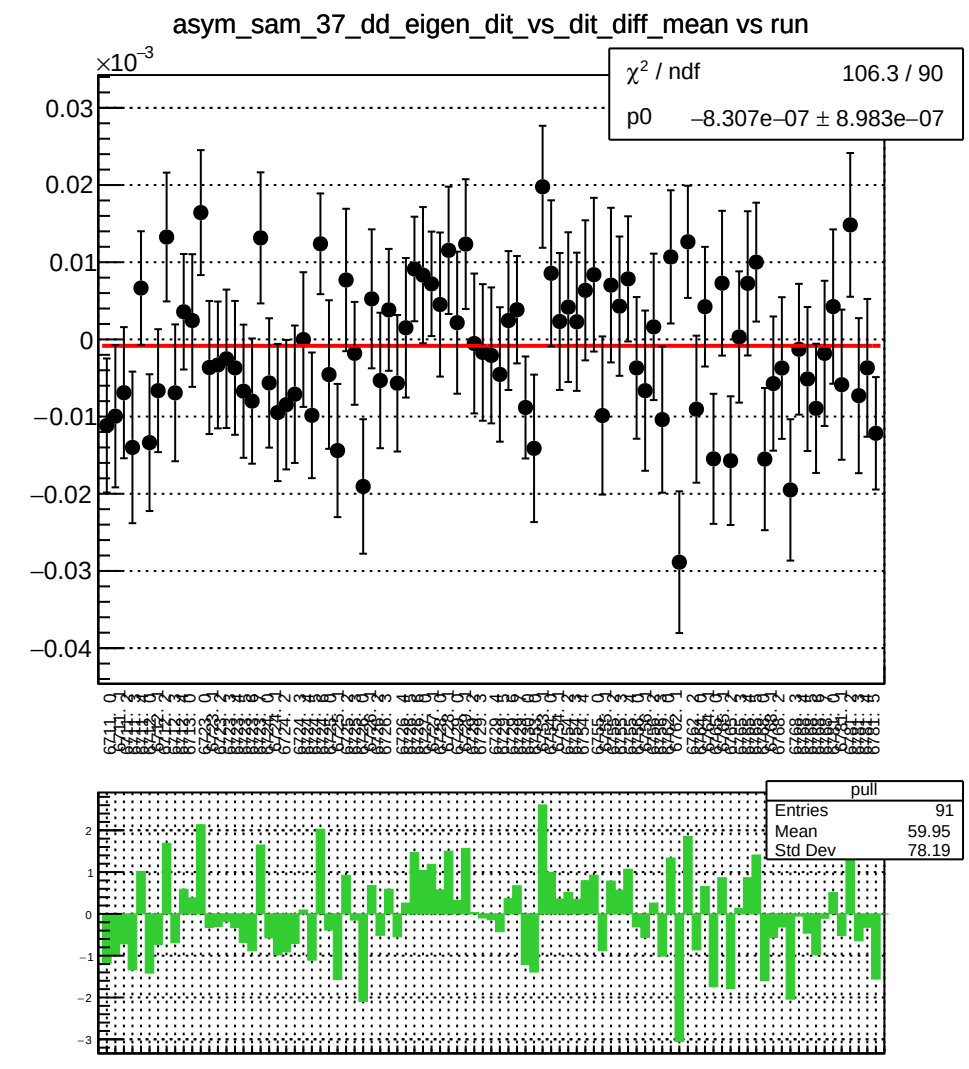

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.269e+06 / 90
p0 3.803e−12 ± 5.199e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

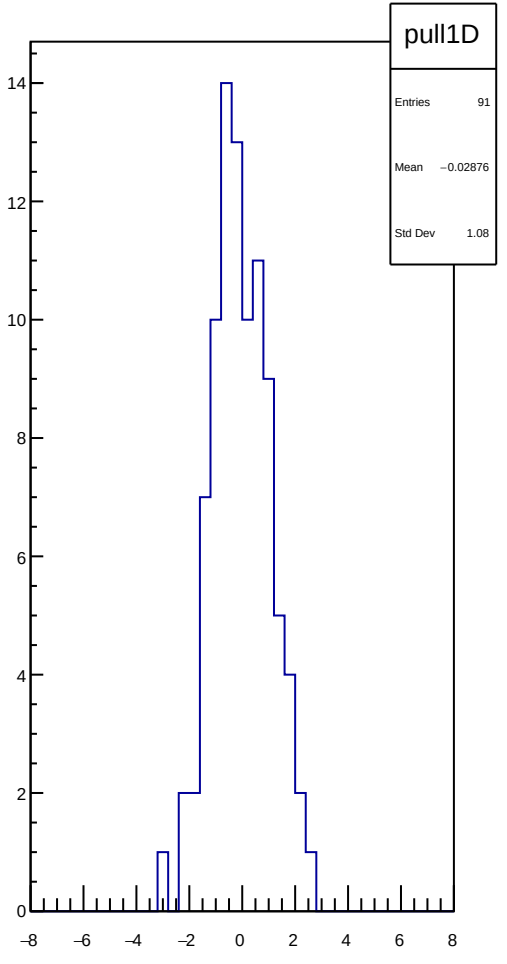

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.63 / 90
p0 0.008525 ± 0.01752
pull
Entries 91
Mean 197.5
Std Dev 0
pull1D
Entries 91
Mean 0.02433
Std Dev 0.9922

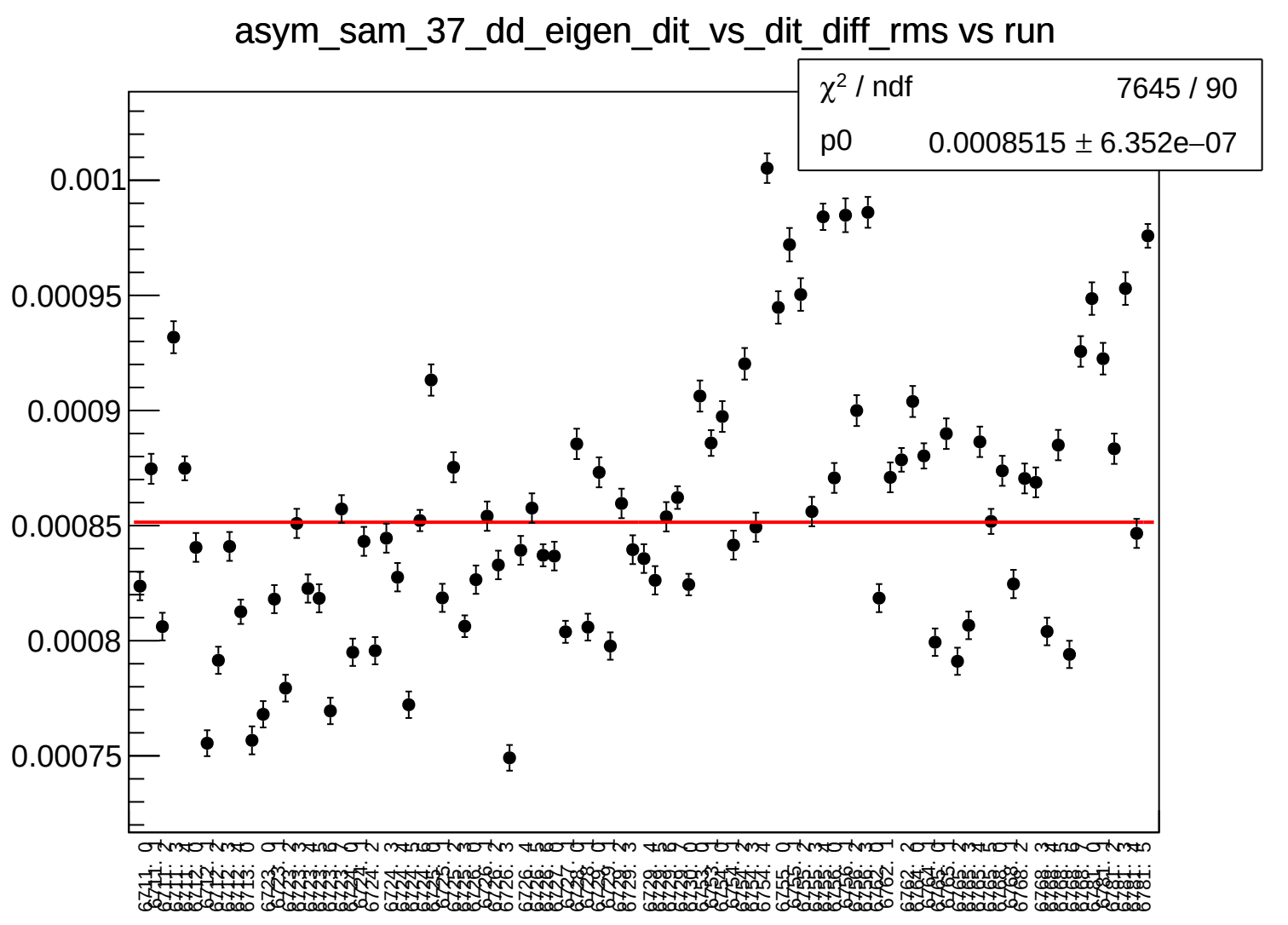

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.596e+05 / 90
p0 13.26 ± 0.01239
140
120
100
80
60
40
20

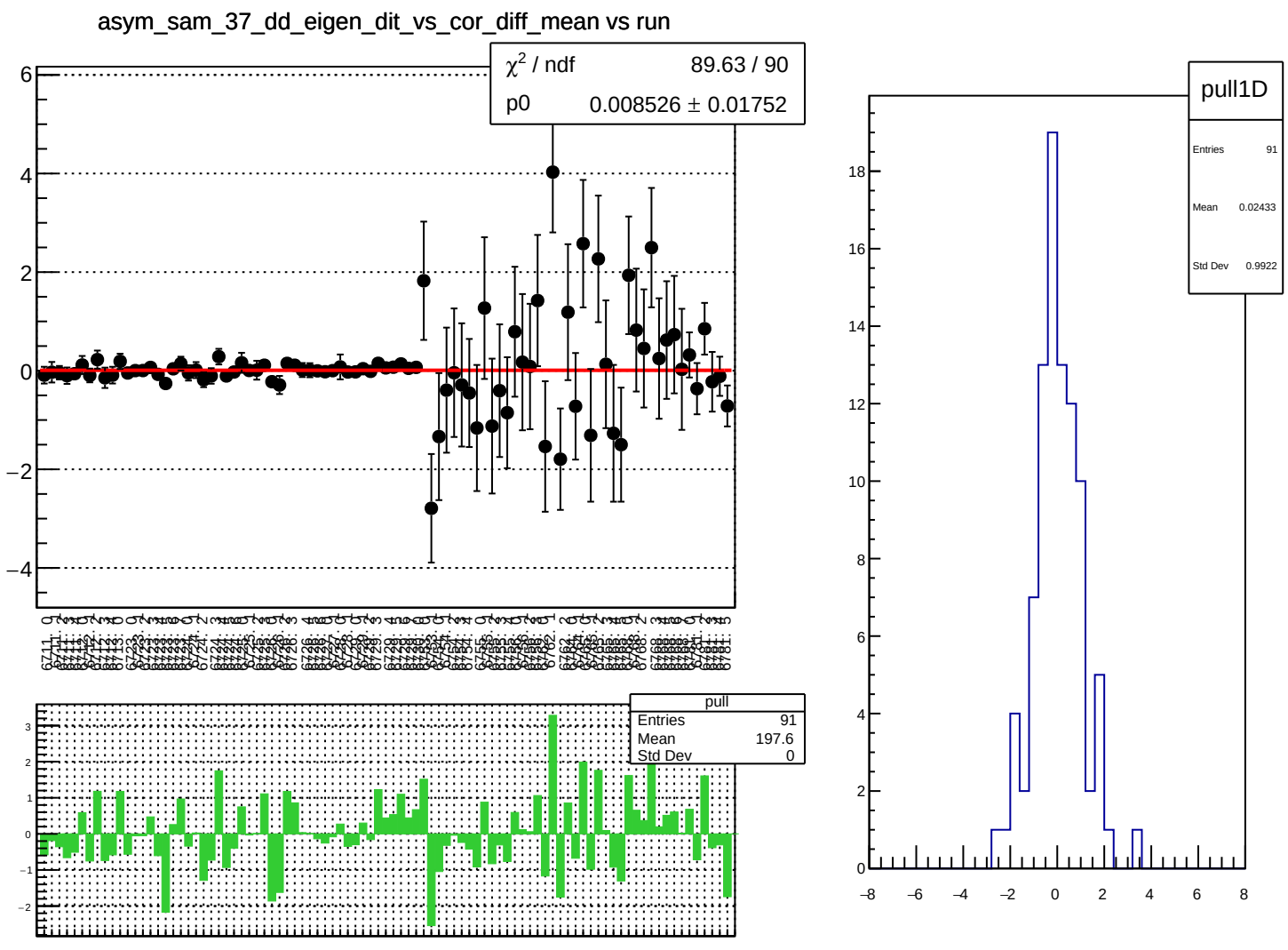

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.63 / 90
p0 0.008525 ± 0.01752
pull
Entries 91
Mean 197.5
Std Dev 0
pull1D
Entries 91
Mean 0.02433
Std Dev 0.9922

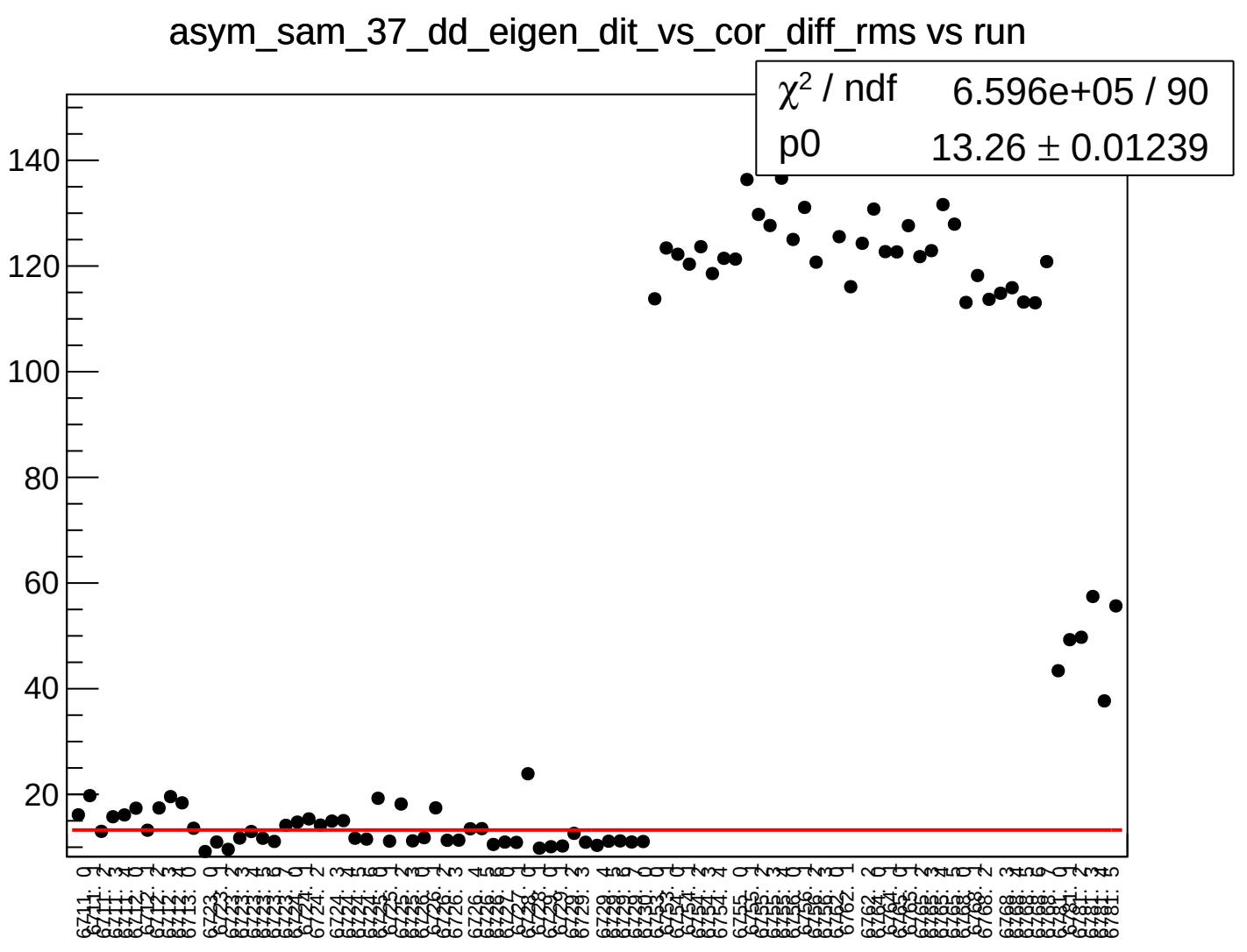

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.596e+05 / 90
p0 13.26 ± 0.01239
140
120
100
80
60
40
20

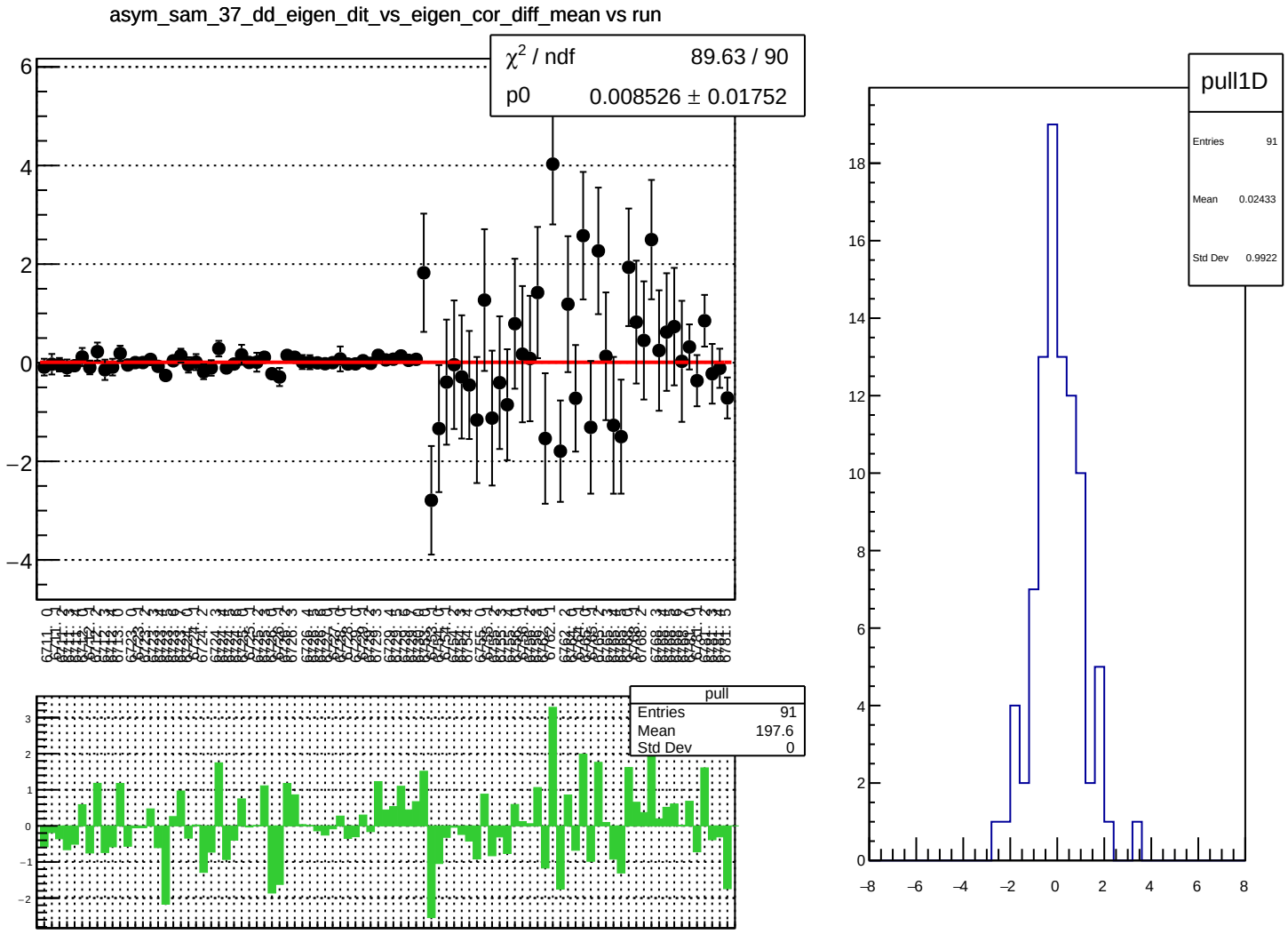

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.3 / 90
p0 −8.307e−07 ± 8.983e−07
pull
Entries 91
Mean 59.95
Std Dev 78.19

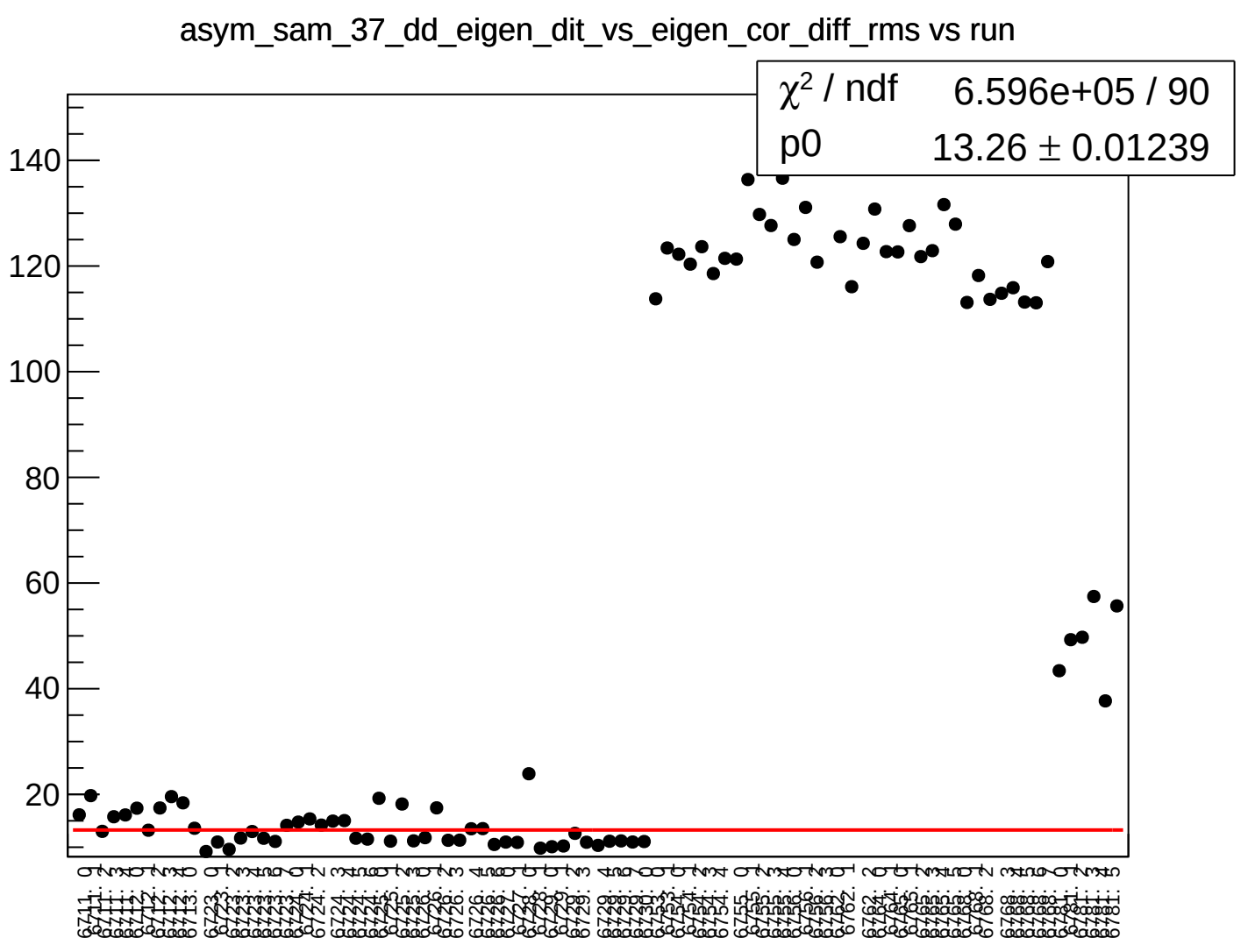

pull1D
Entries 91
Mean −0.02876
Std Dev 1.08

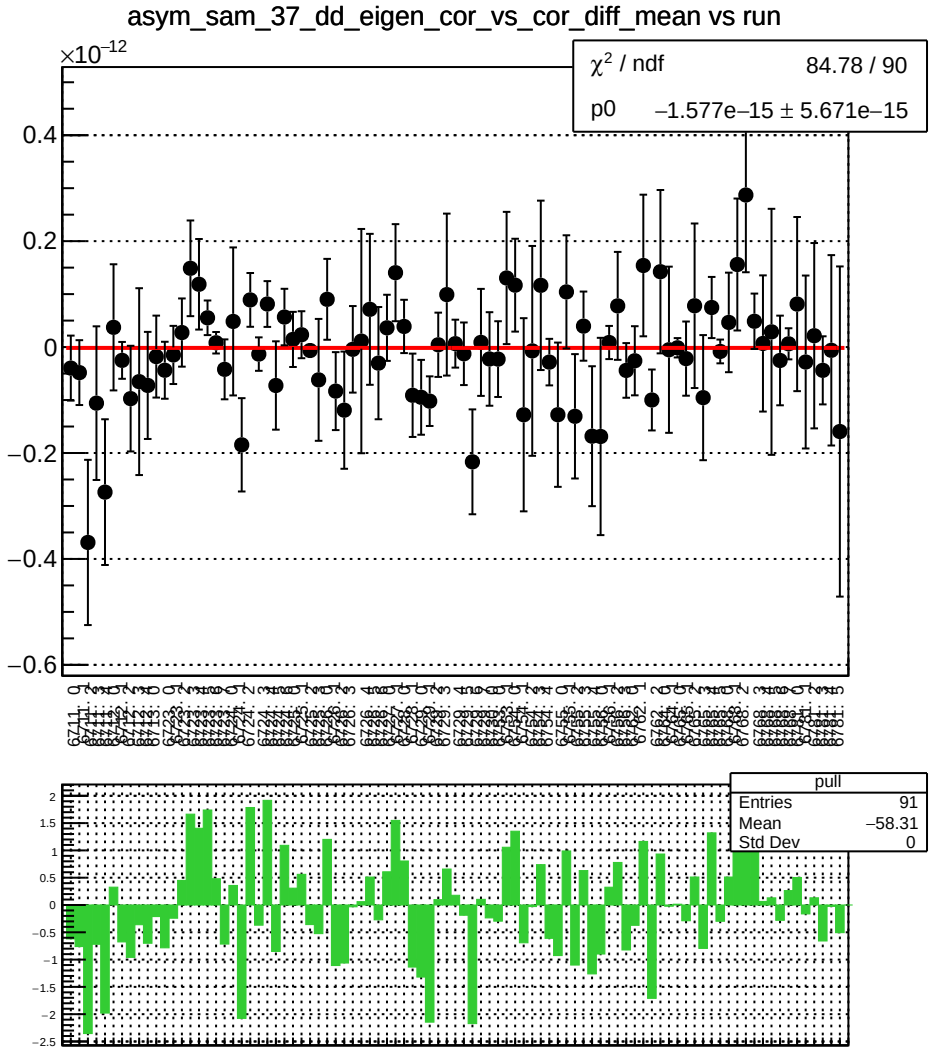

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7645 / 90
p0 0.0008515 ± 6.352e−07
0.001
0.00095
0.0009
0.00085
0.0008
0.00075

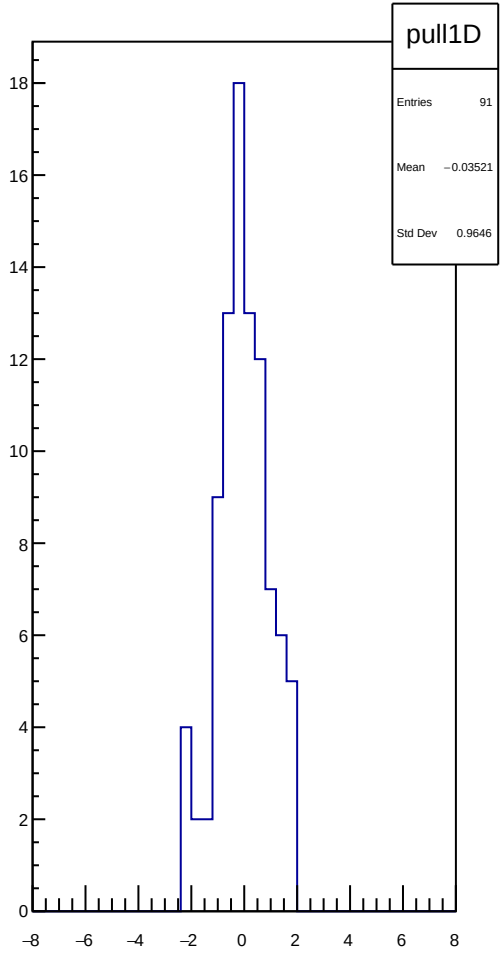

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.63 / 90
p0 0.008526 ± 0.01752
pull
Entries 91
Mean 197.6
Std Dev 0
pull1D
Entries 91
Mean 0.02433
Std Dev 0.9922

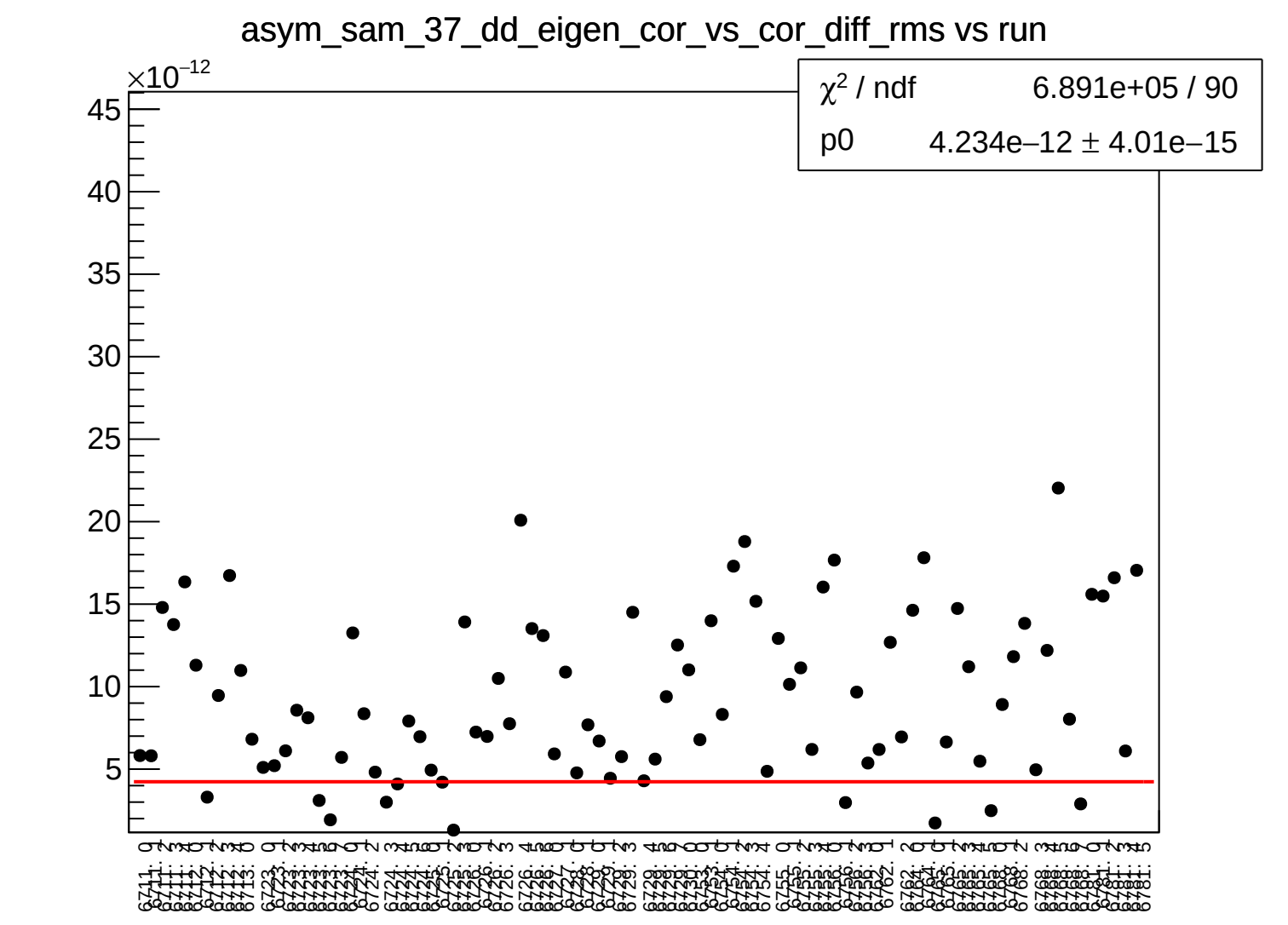

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.596e+05 / 90
p0 13.26 ± 0.01239
140
120
100
80
60
40
20

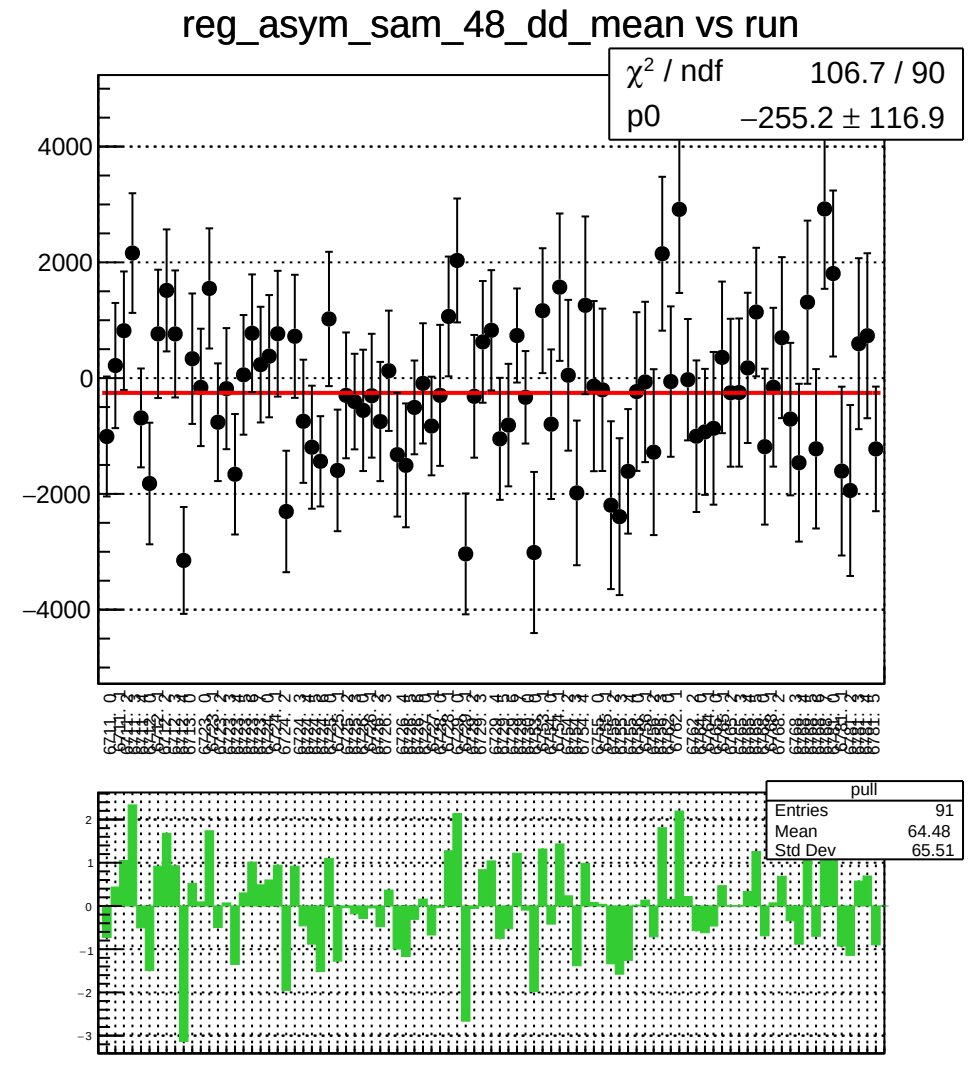

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.63 / 90
p0 0.008526 ± 0.01752
pull
Entries 91
Mean 197.6
Std Dev 0
pull1D
Entries 91
Mean 0.02433
Std Dev 0.9922

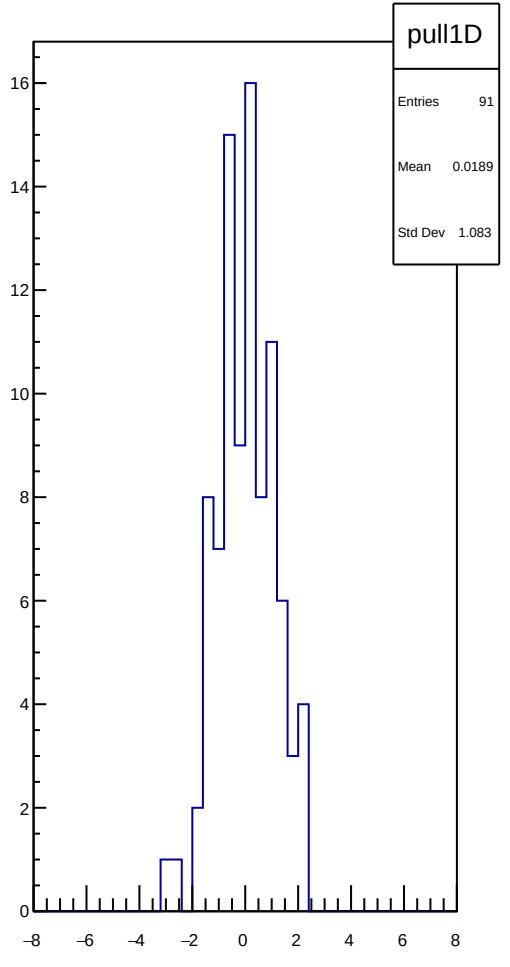

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.596e+05 / 90
p0 13.26 ± 0.01239
140
120
100
80
60
40
20

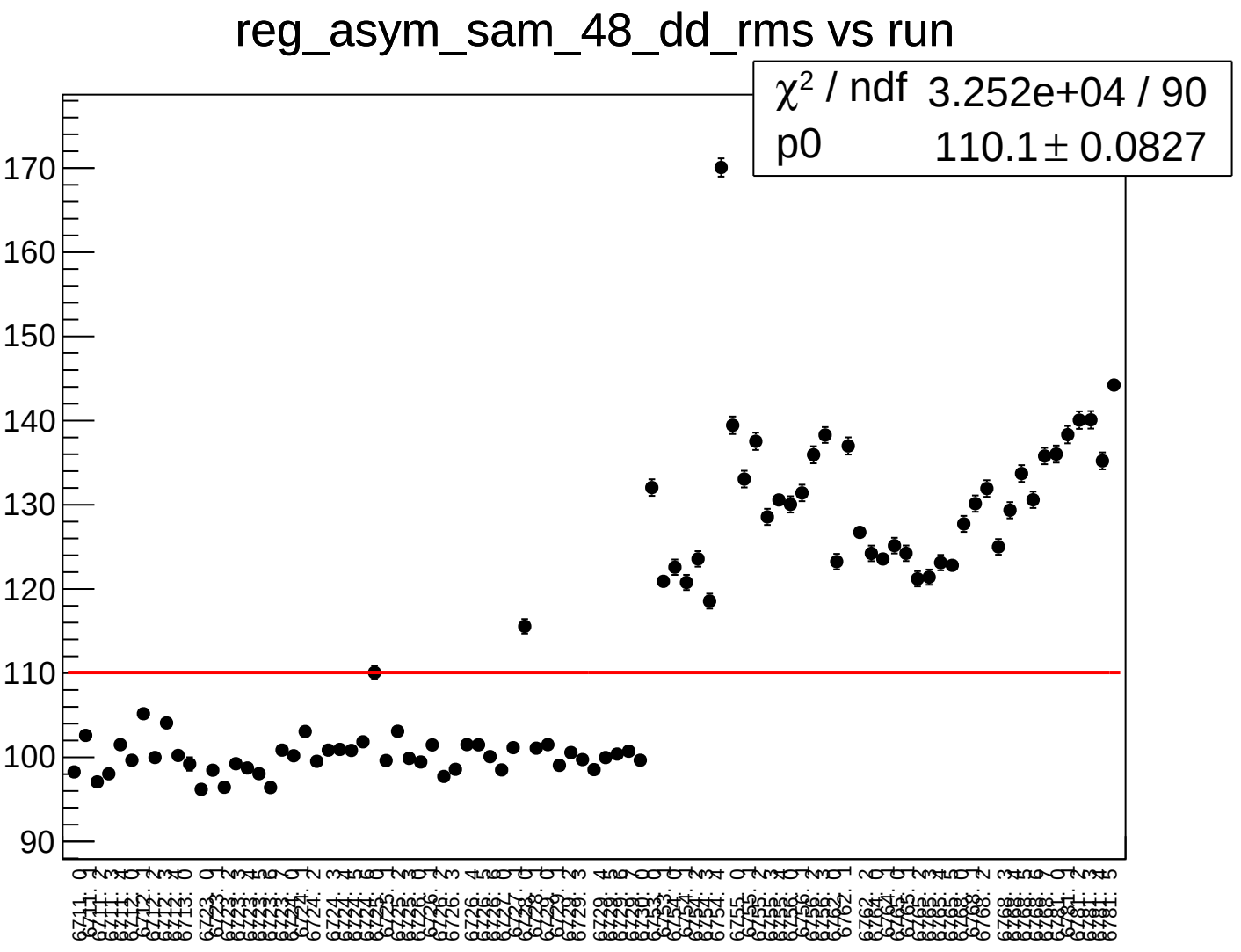

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.78 / 90
p0 −1.577e−15 ± 5.671e−15
pull
Entries 91
Mean −58.31
Std Dev 0

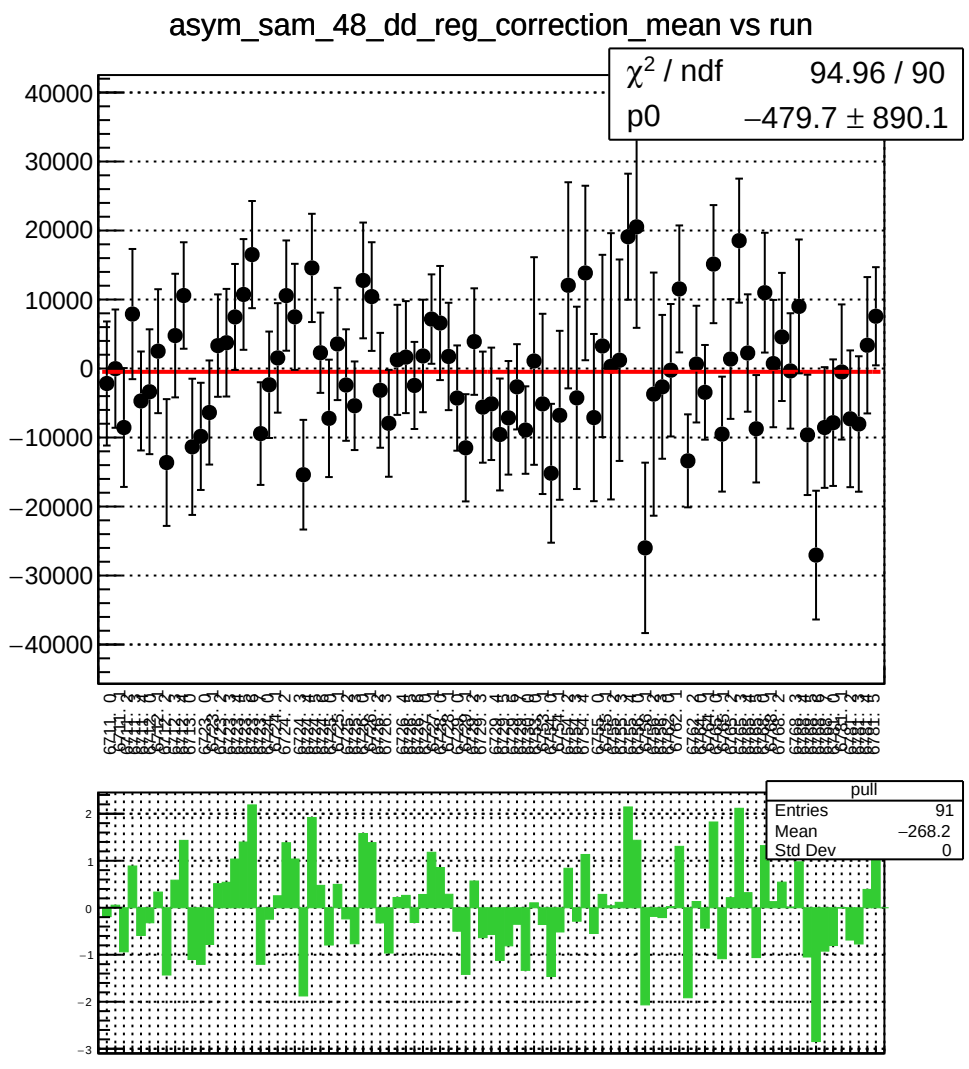

pull1D
Entries 91
Mean −0.03521
Std Dev 0.9646

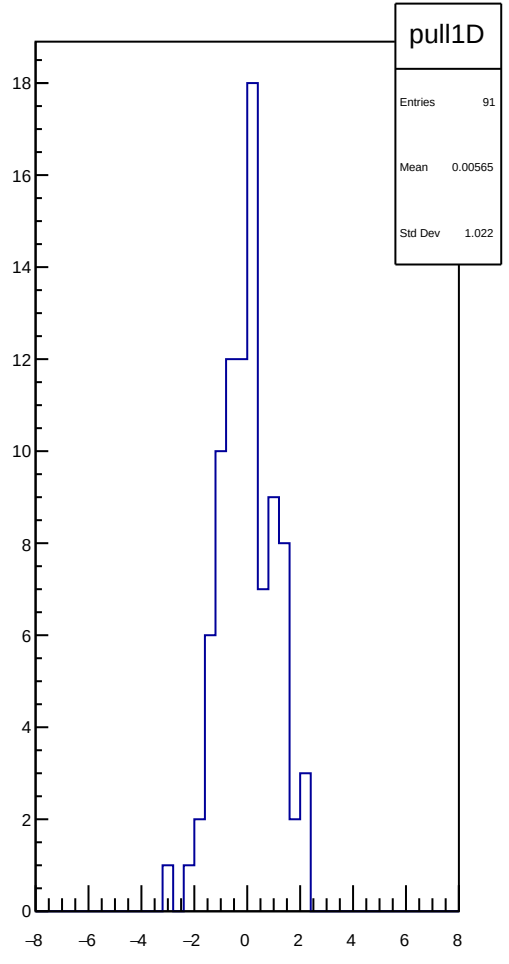

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.891e+05 / 90
p0 4.234e−12 ± 4.01e−15
45
40
35
30
25
20
15
10
5

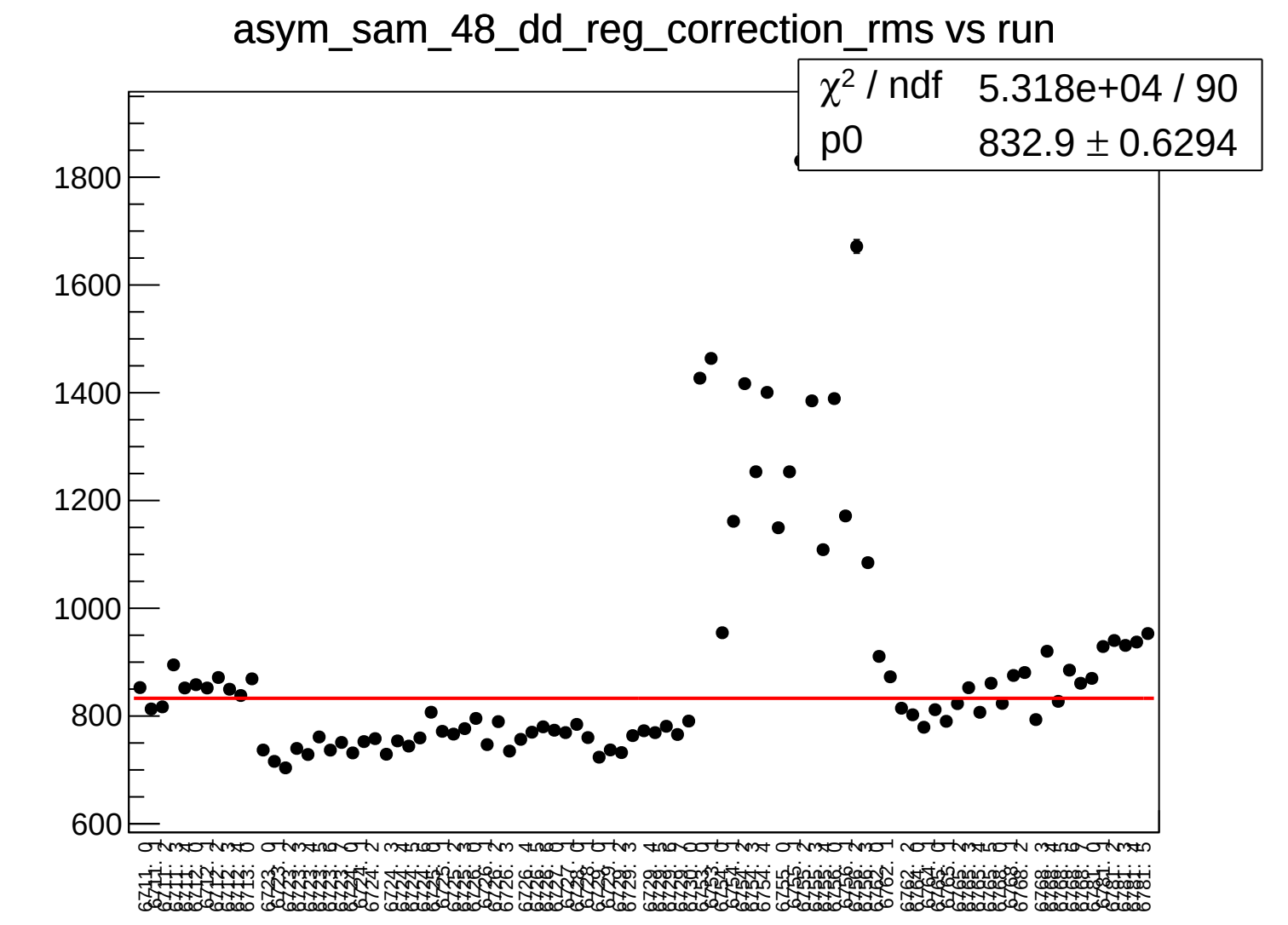

reg_asym_sam_48_dd_mean vs run
χ² / ndf 106.7 / 90
p0 −255.2 ± 116.9
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 64.48
Std Dev 65.51
2
1
0
−1
−2
−3

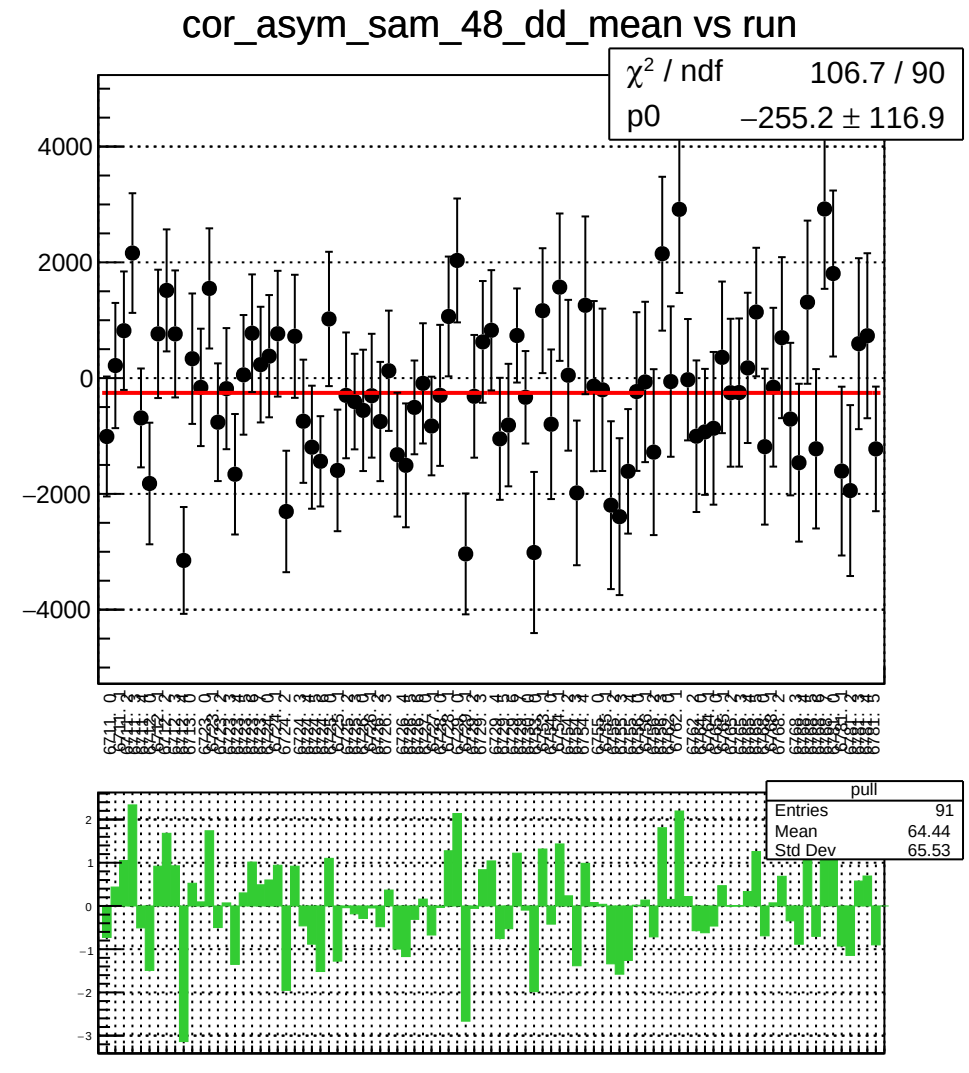

pull1D
Entries 91
Mean 0.0189
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

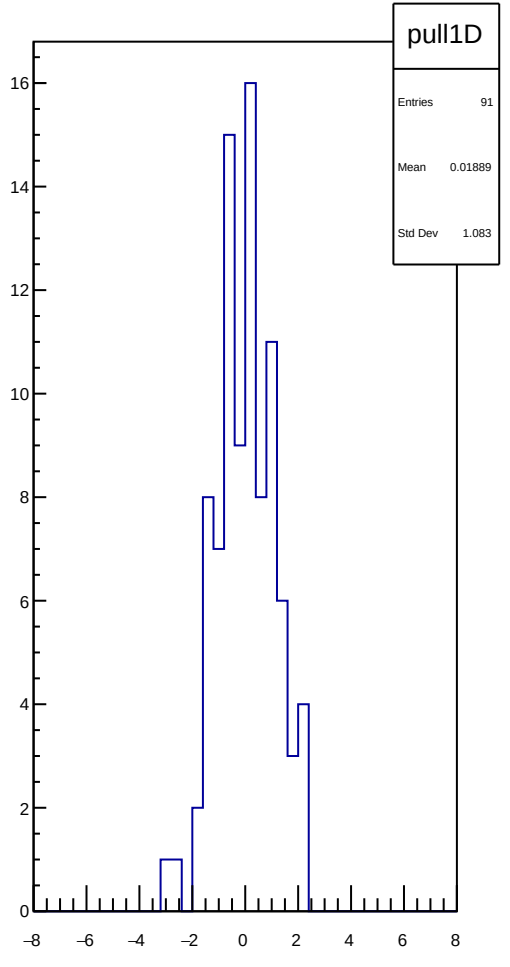

reg_asym_sam_48_dd_rms vs run
χ² / ndf 3.252e+04 / 90
p0 110.1 ± 0.0827
170
160
150
140
130
120
110
100
90

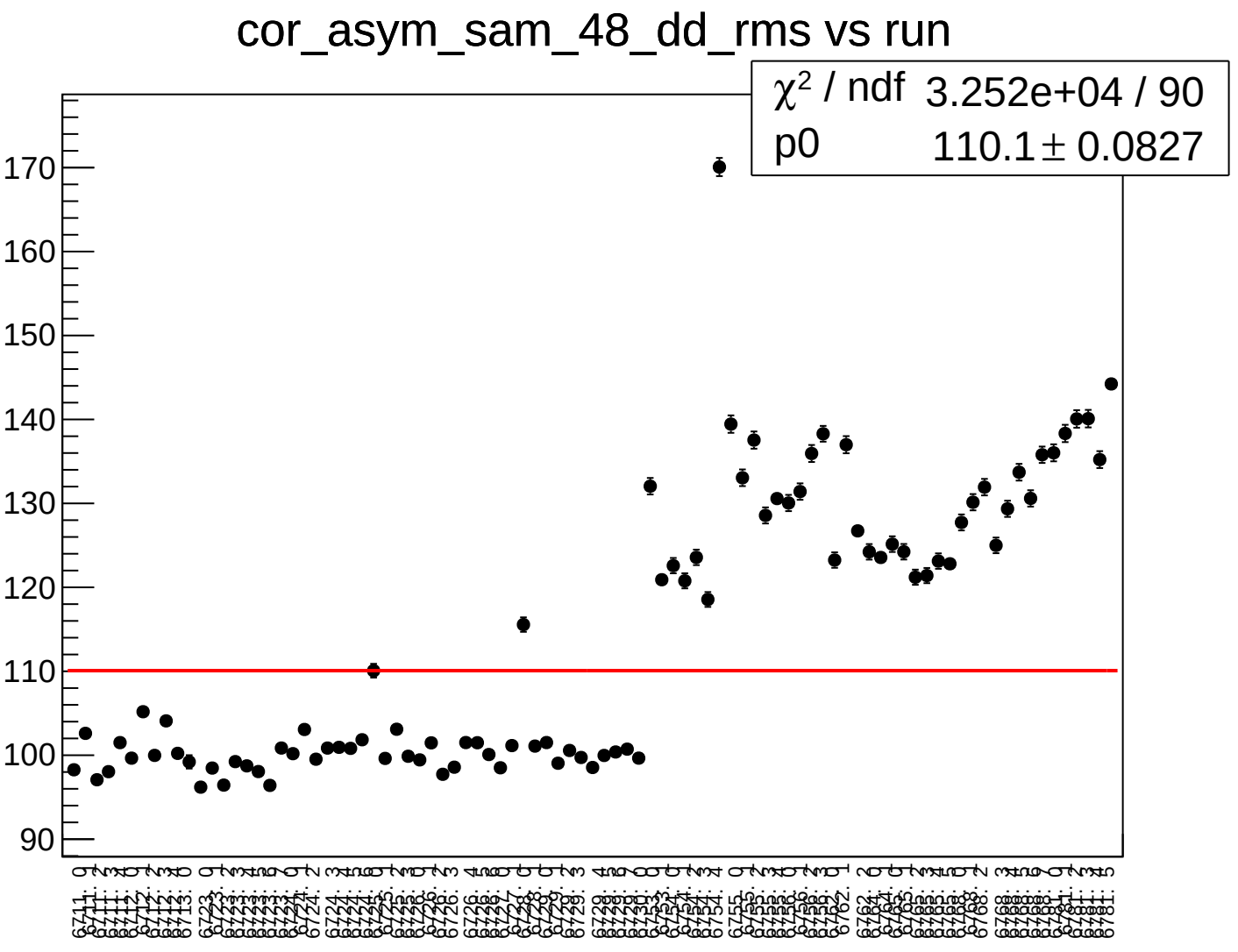

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 94.96 / 90
p0 −479.7 ± 890.1
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean −268.2
Std Dev 0
2
1
0
−1
−2
−3

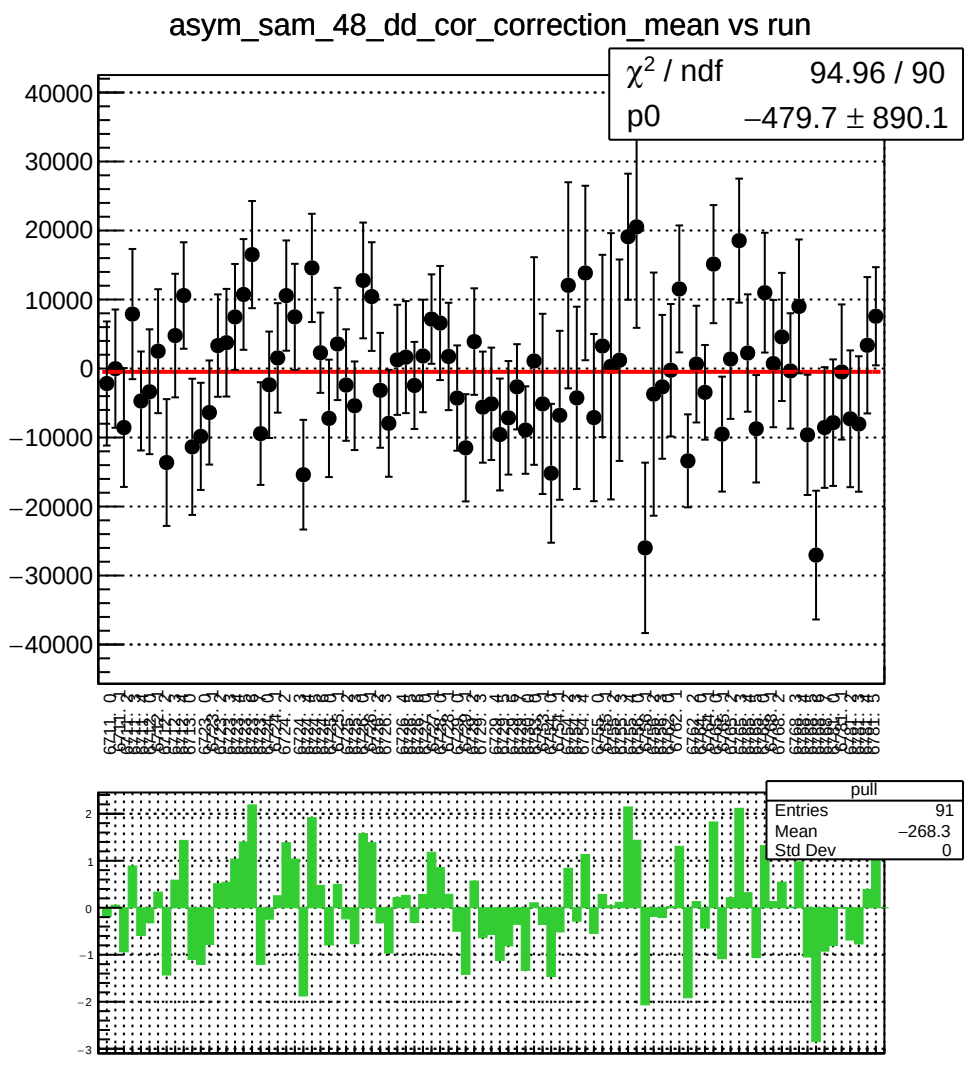

pull1D
Entries 91
Mean 0.00565
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

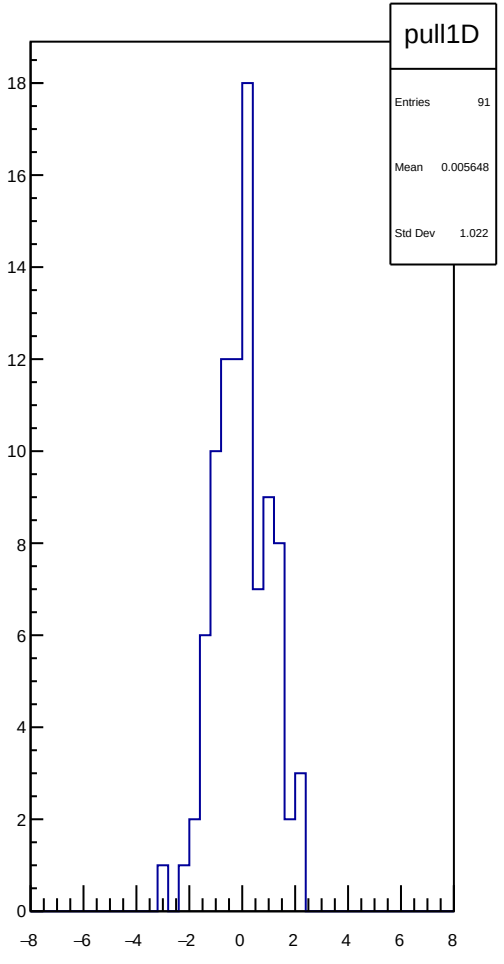

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 5.318e+04 / 90
p0 832.9 ± 0.6294
1800
1600
1400
1200
1000
800
600

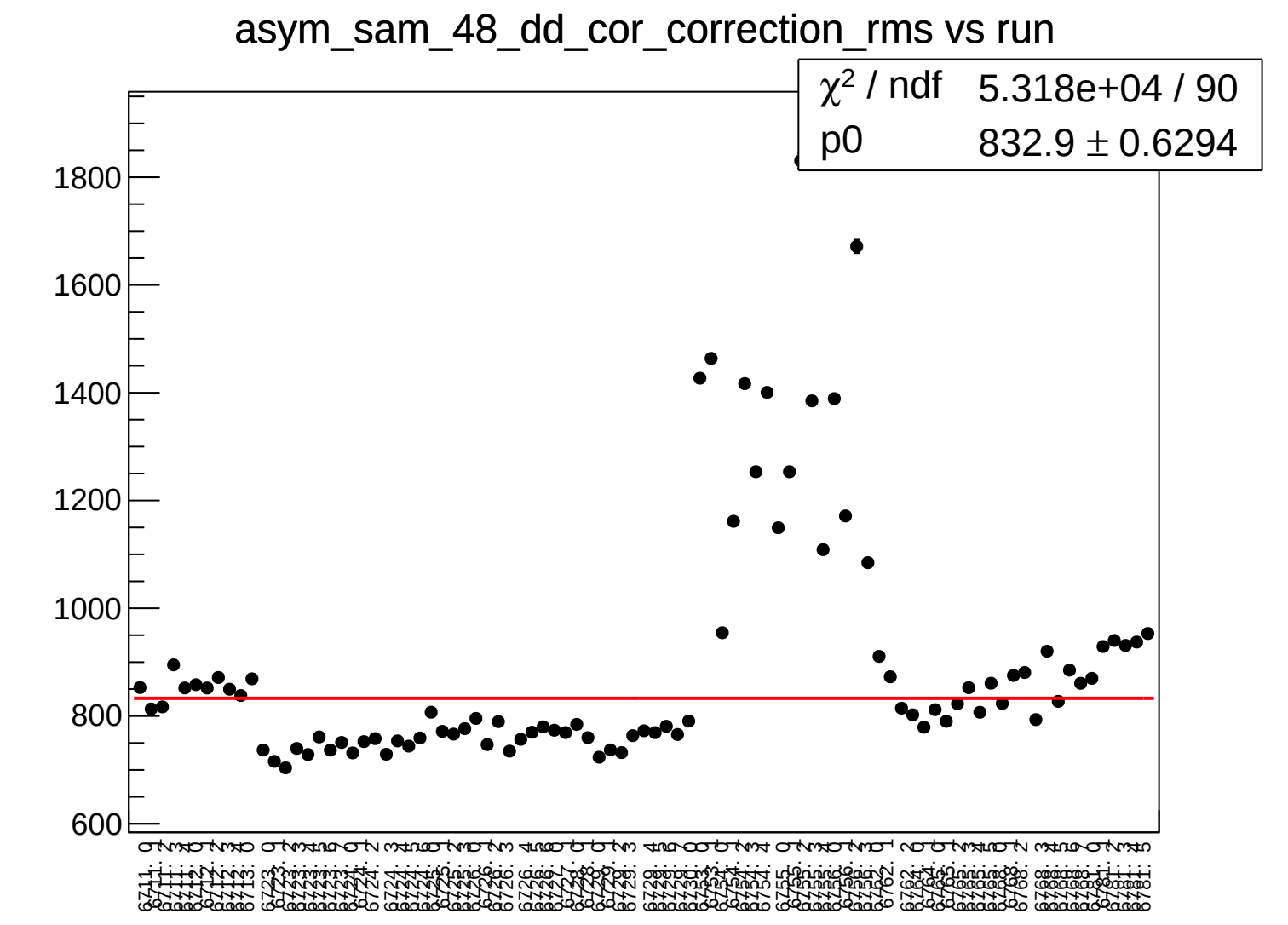

cor_asym_sam_48_dd_mean vs run
χ² / ndf 106.7 / 90
p0 −255.2 ± 116.9
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 64.44
Std Dev 65.53
2
1
0
−1
−2
−3

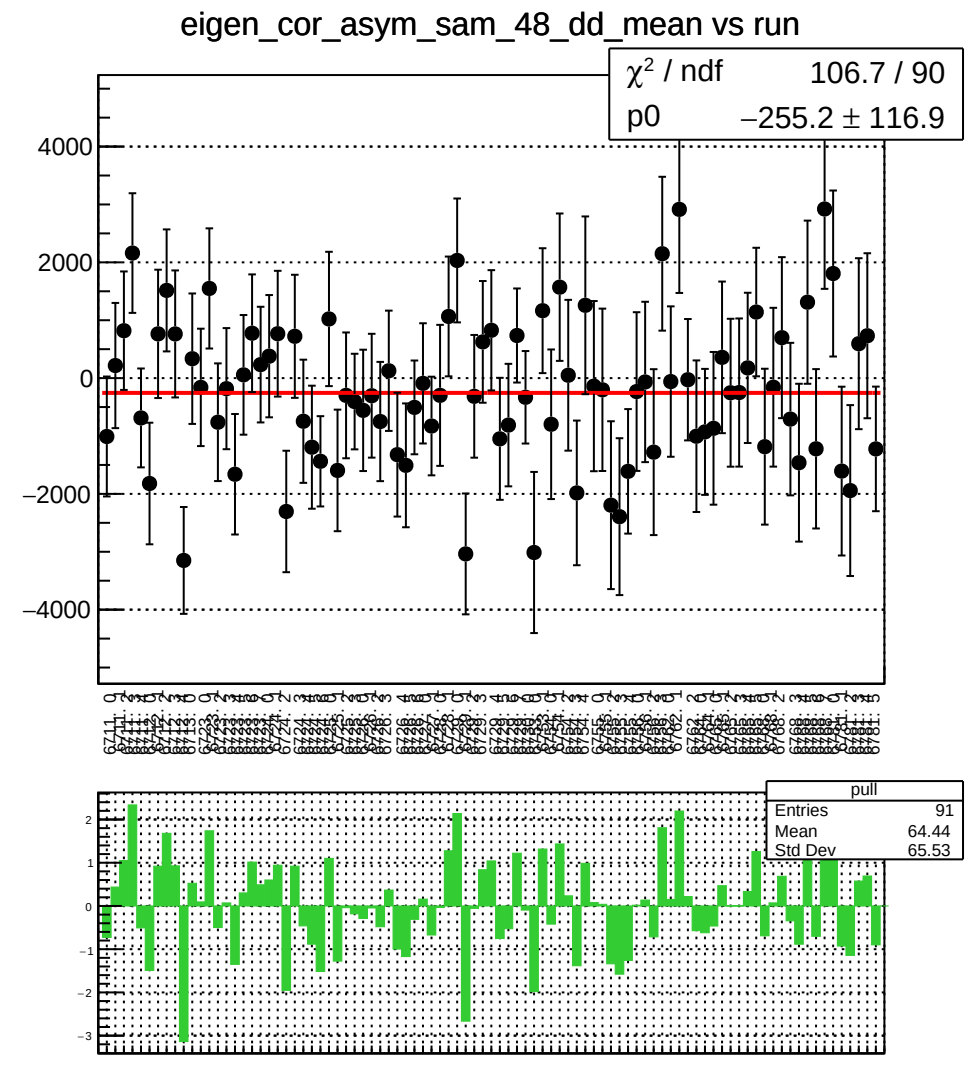

pull1D
Entries 91
Mean 0.01889
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

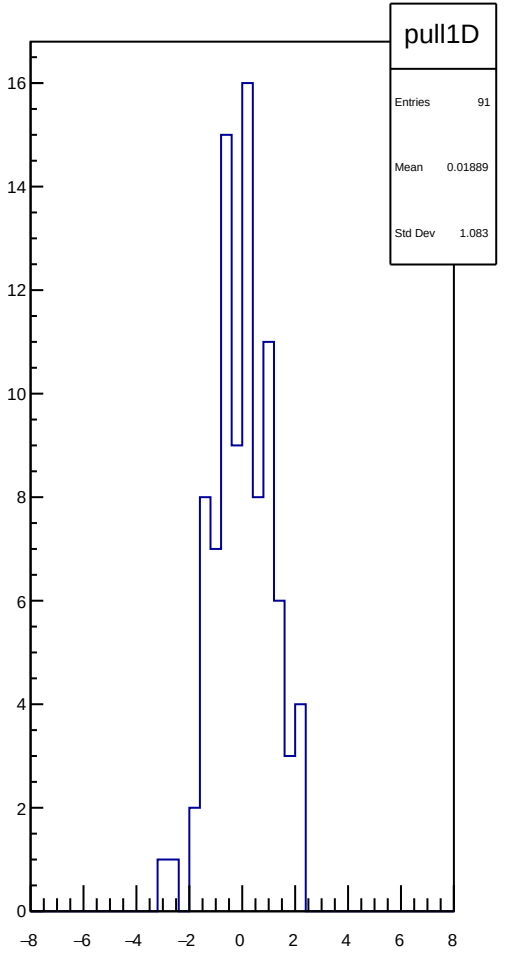

cor_asym_sam_48_dd_rms vs run
χ² / ndf 3.252e+04 / 90
p0 110.1 ± 0.0827
170
160
150
140
130
120
110
100
90

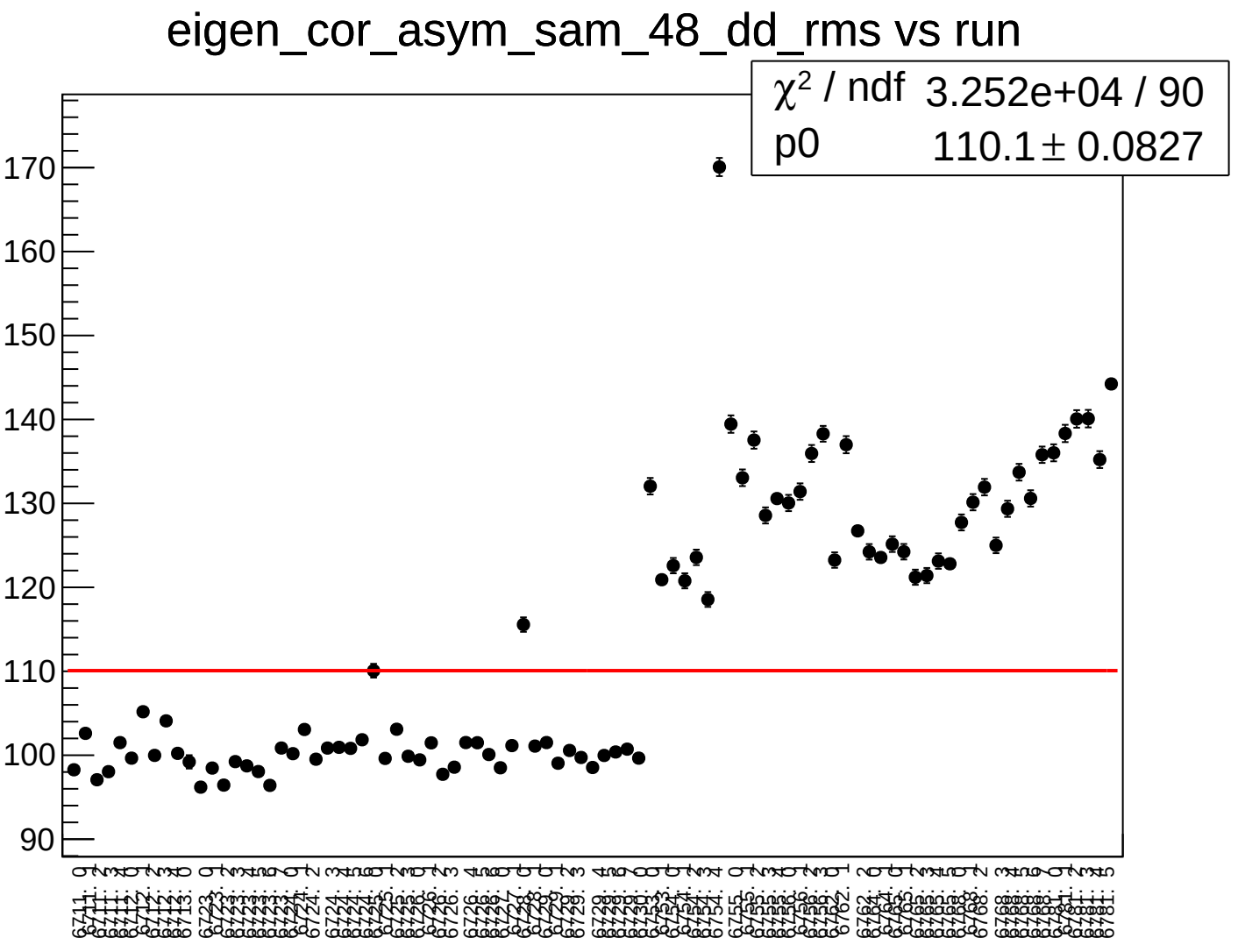

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 94.96 / 90
p0 −479.7 ± 890.1
pull
Entries 91
Mean −268.3
Std Dev 0

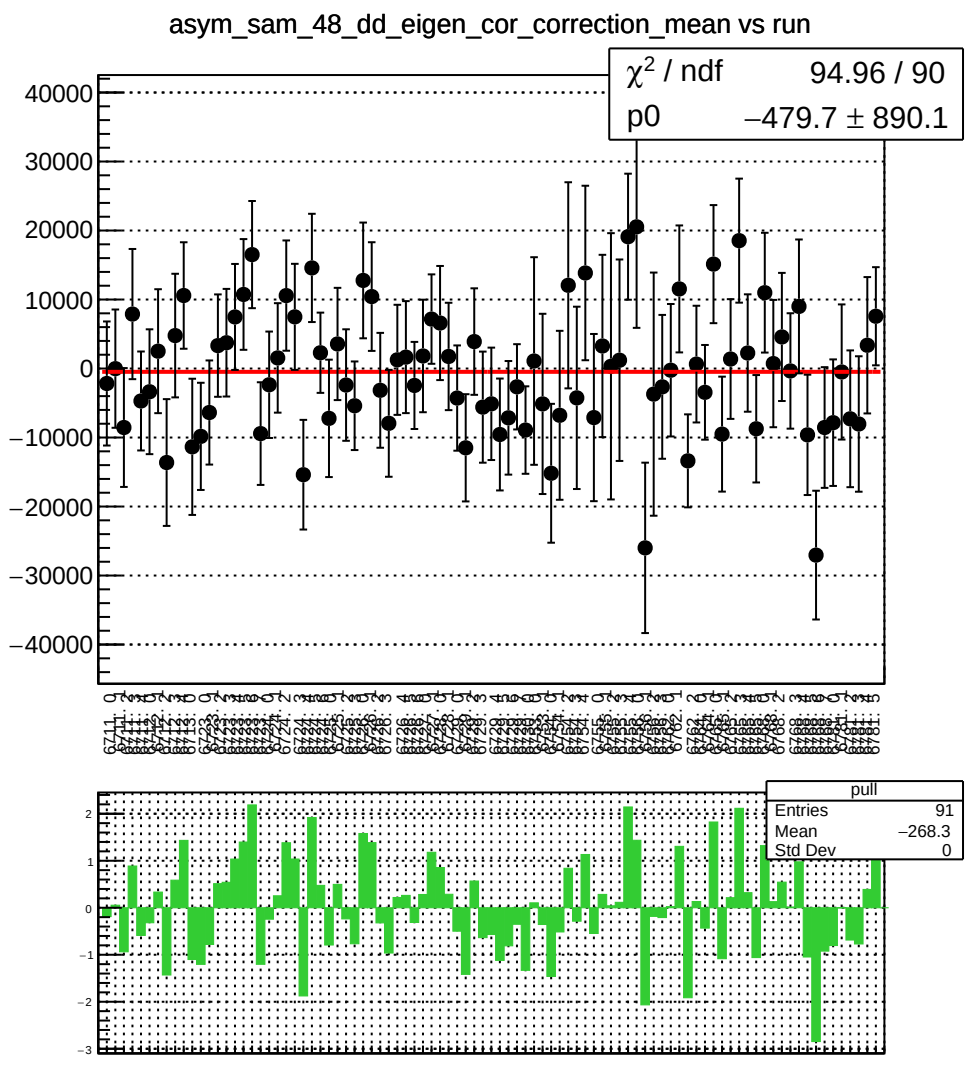

pull1D
Entries 91
Mean 0.005648
Std Dev 1.022

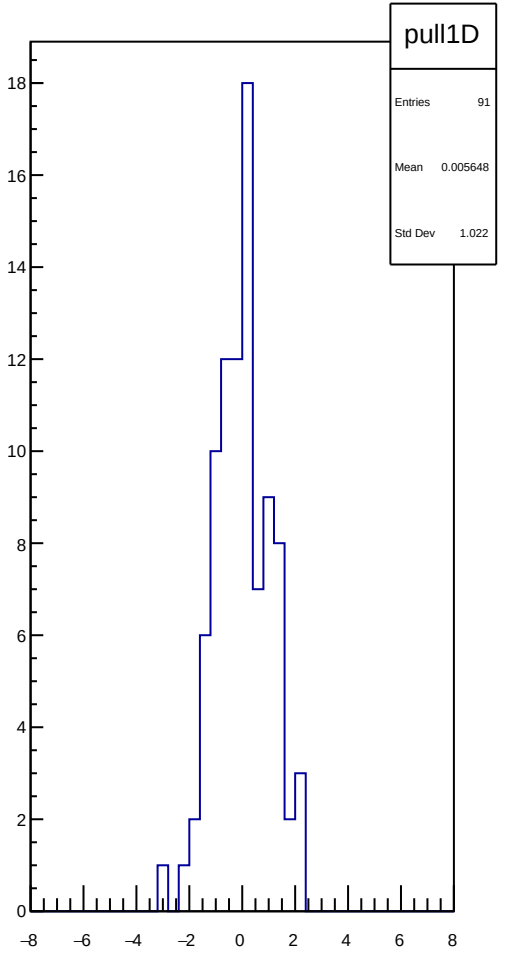

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 5.318e+04 / 90
p0 832.9 ± 0.6294
1800
1600
1400
1200
1000
800
600

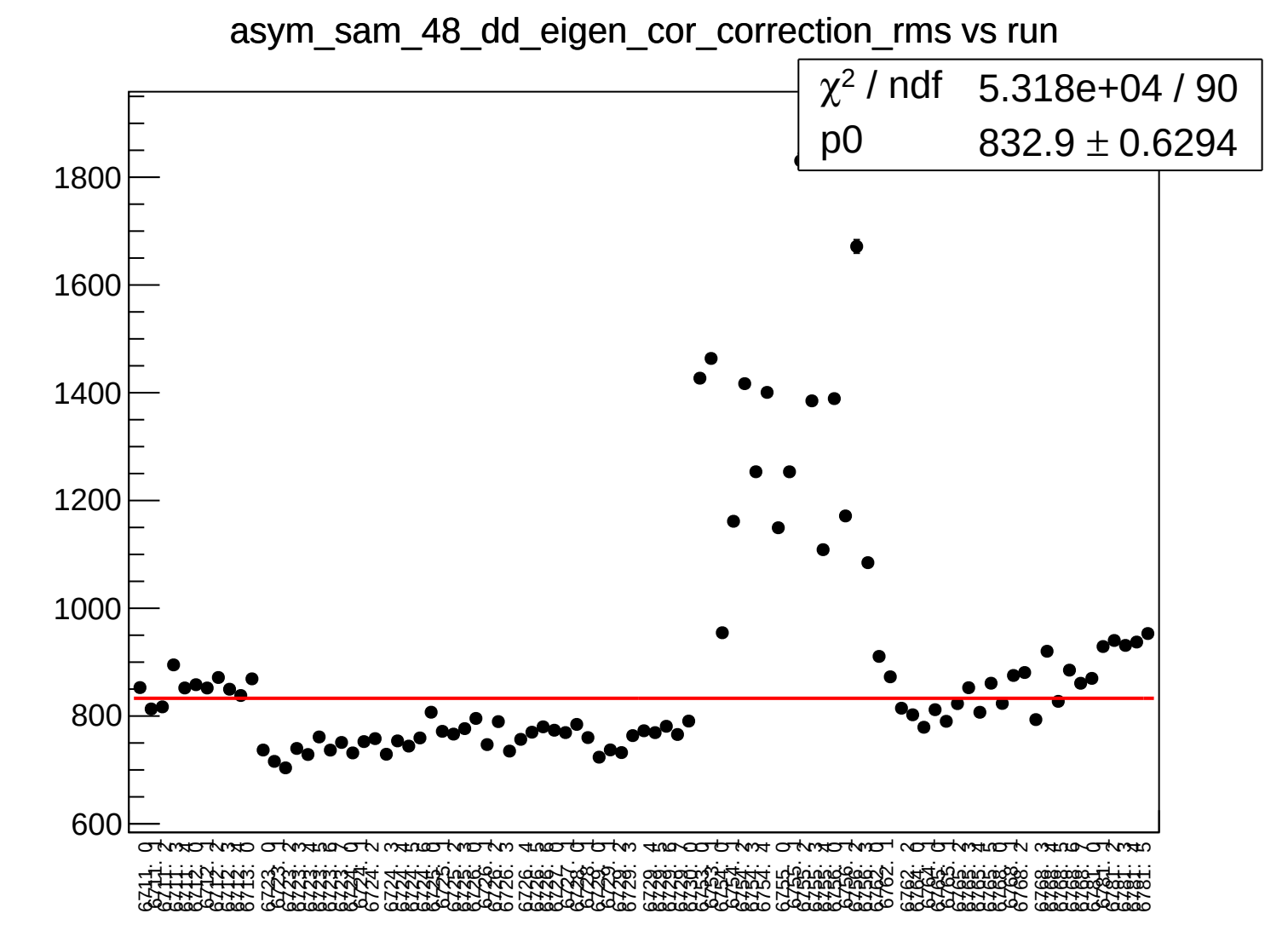

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 106.7 / 90
p0 −255.2 ± 116.9
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 64.44
Std Dev 65.53
2
1
0
−1
−2
−3

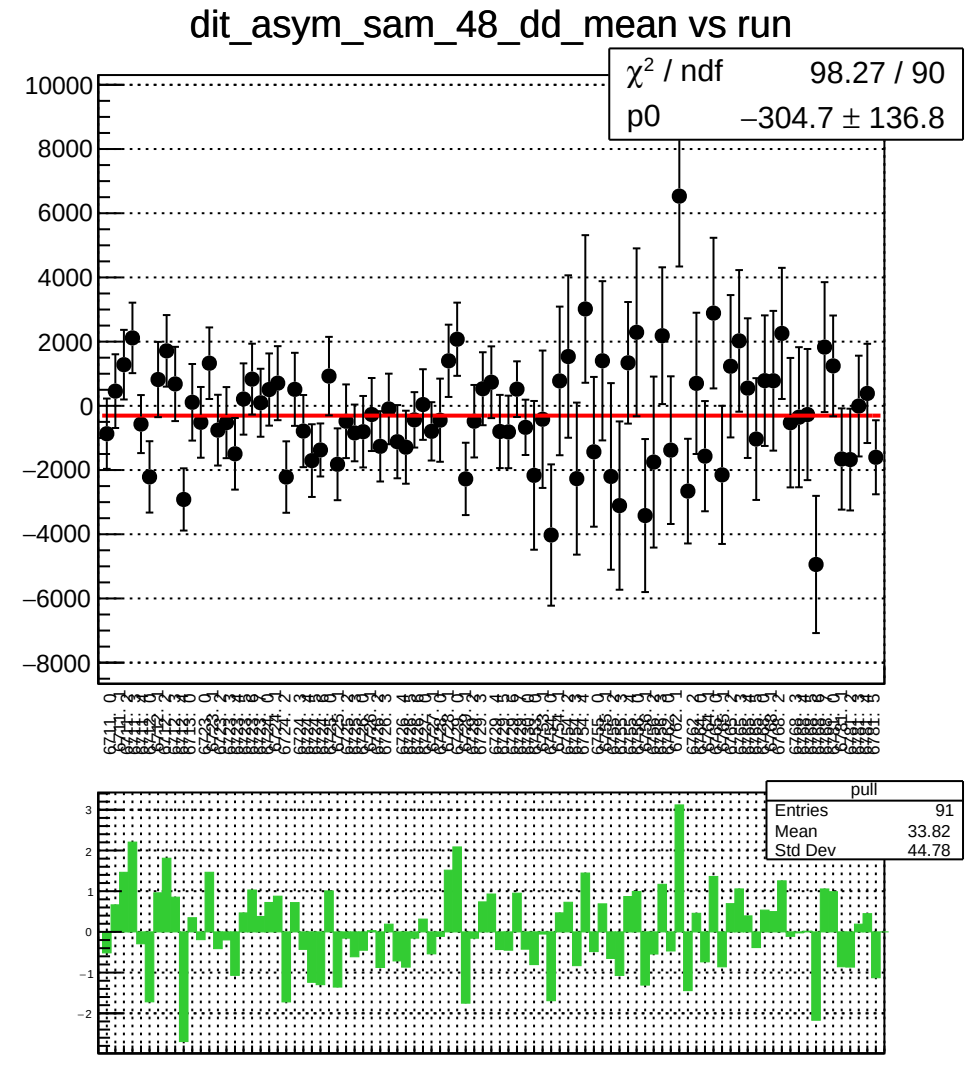

pull1D
Entries 91
Mean 0.01889
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

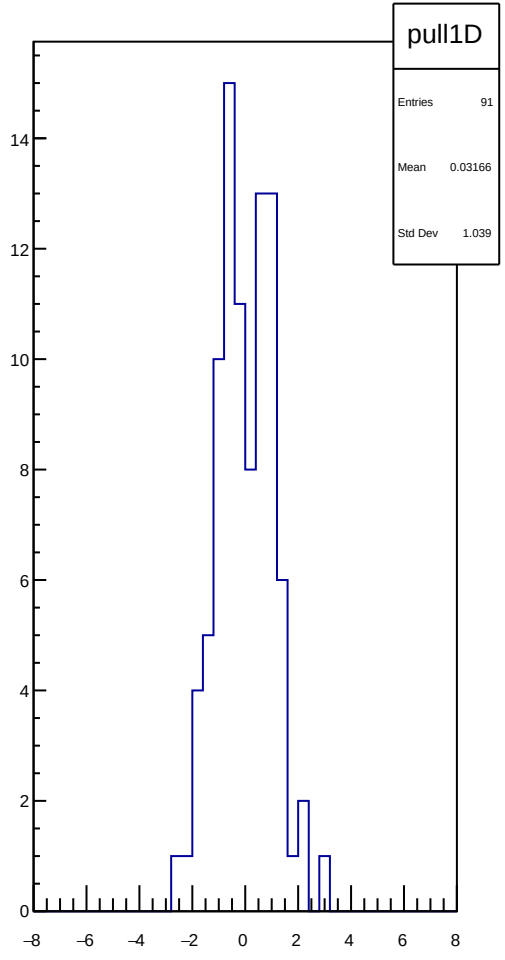

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 3.252e+04 / 90
p0 110.1 ± 0.0827
170
160
150
140
130
120
110
100
90

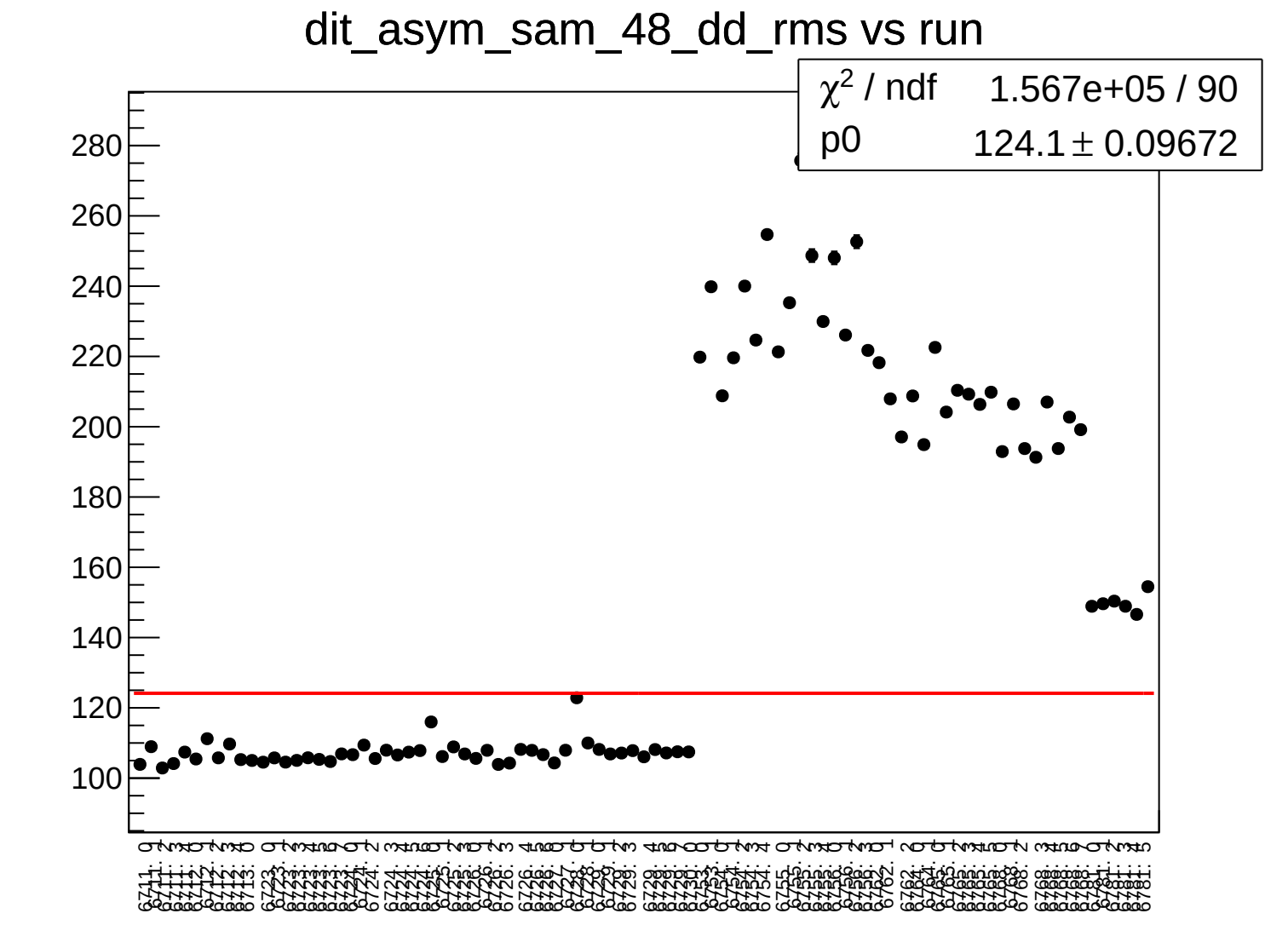

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.96 / 90
p0 −479.7 ± 890.1
pull
Entries 91
Mean −268.3
Std Dev 0

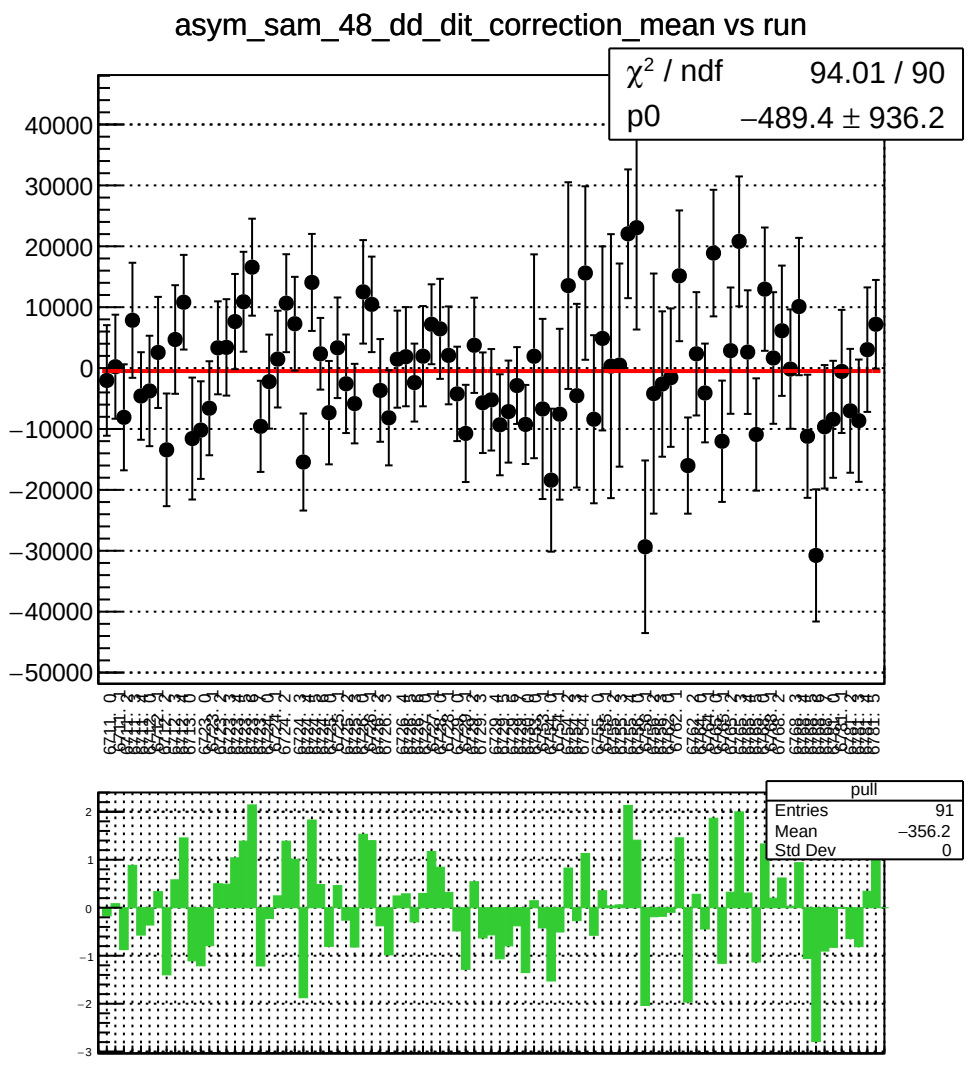

pull1D
Entries 91
Mean 0.005648
Std Dev 1.022

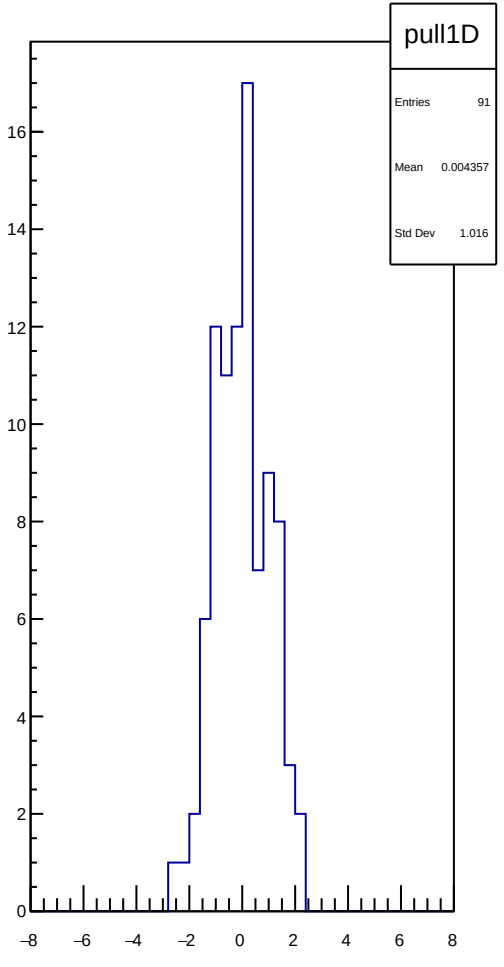

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.318e+04 / 90
p0 832.9 ± 0.6294
1800
1600
1400
1200
1000
800
600

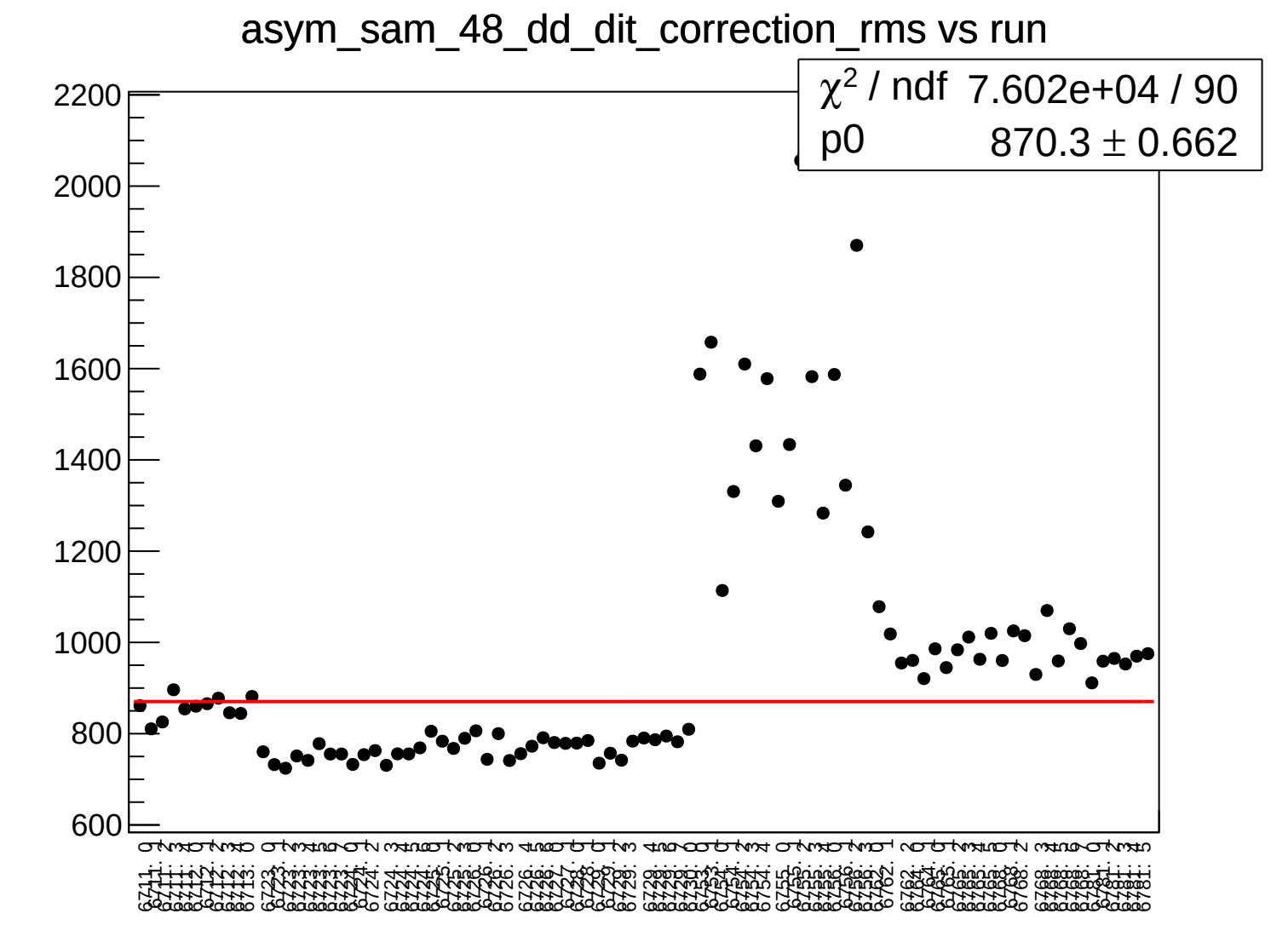

dit_asym_sam_48_dd_mean vs run
χ² / ndf 98.27 / 90
p0 −304.7 ± 136.8
pull
Entries 91
Mean 33.82
Std Dev 44.78

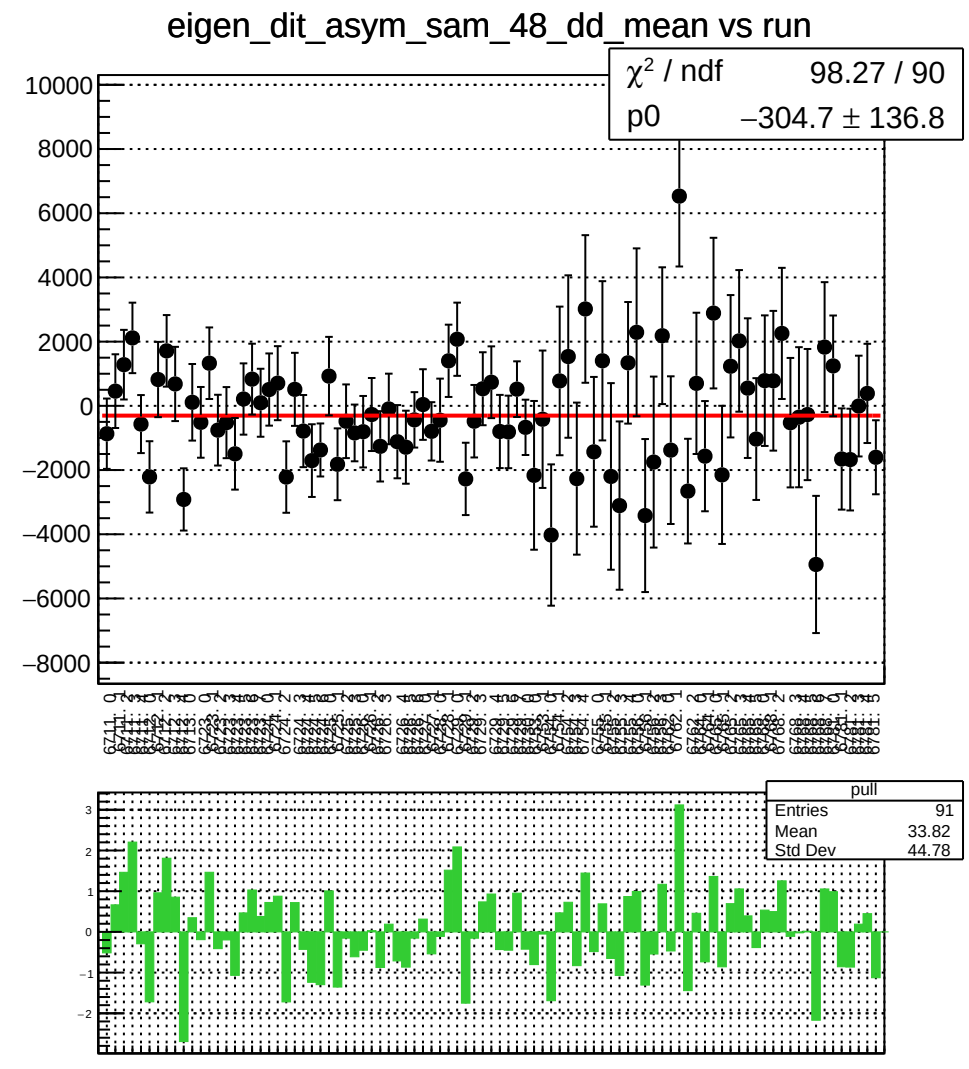

pull1D
Entries 91
Mean 0.03166
Std Dev 1.039

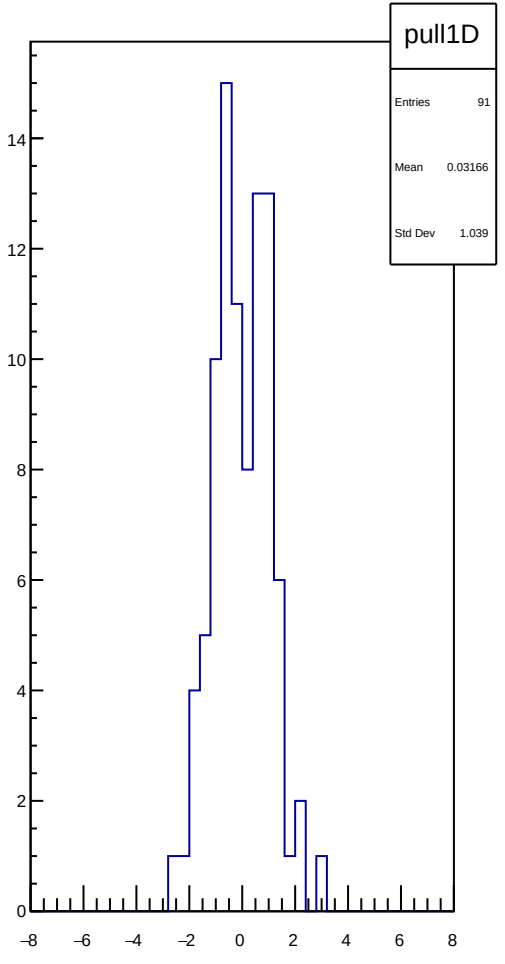

dit_asym_sam_48_dd_rms vs run
χ^2 / ndf 1.567e+05 / 90
p0 124.1 ± 0.09672
280
260
240
220
200
180
160
140
120
100

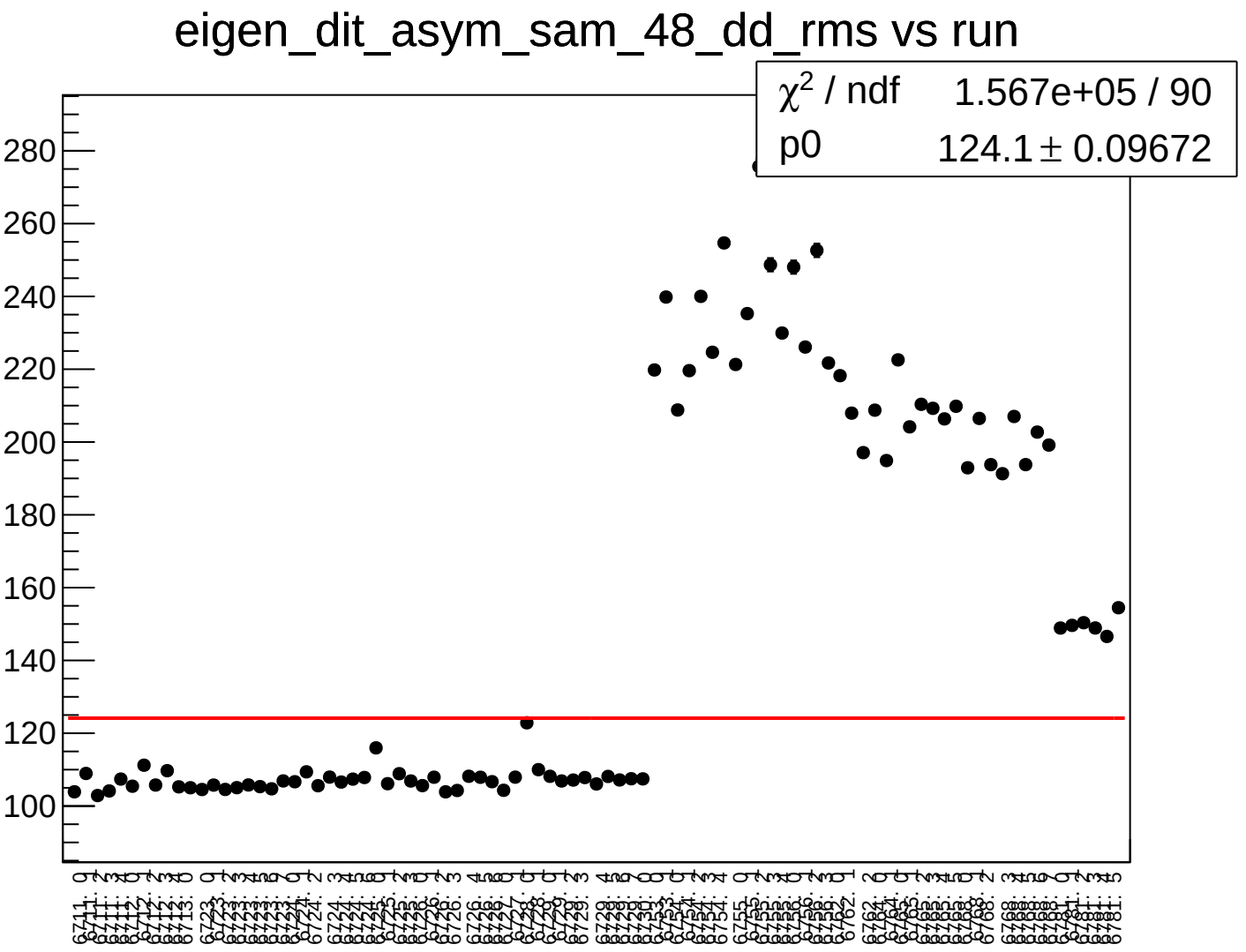

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 94.01 / 90
p0 −489.4 ± 936.2
pull
Entries 91
Mean −356.2
Std Dev 0

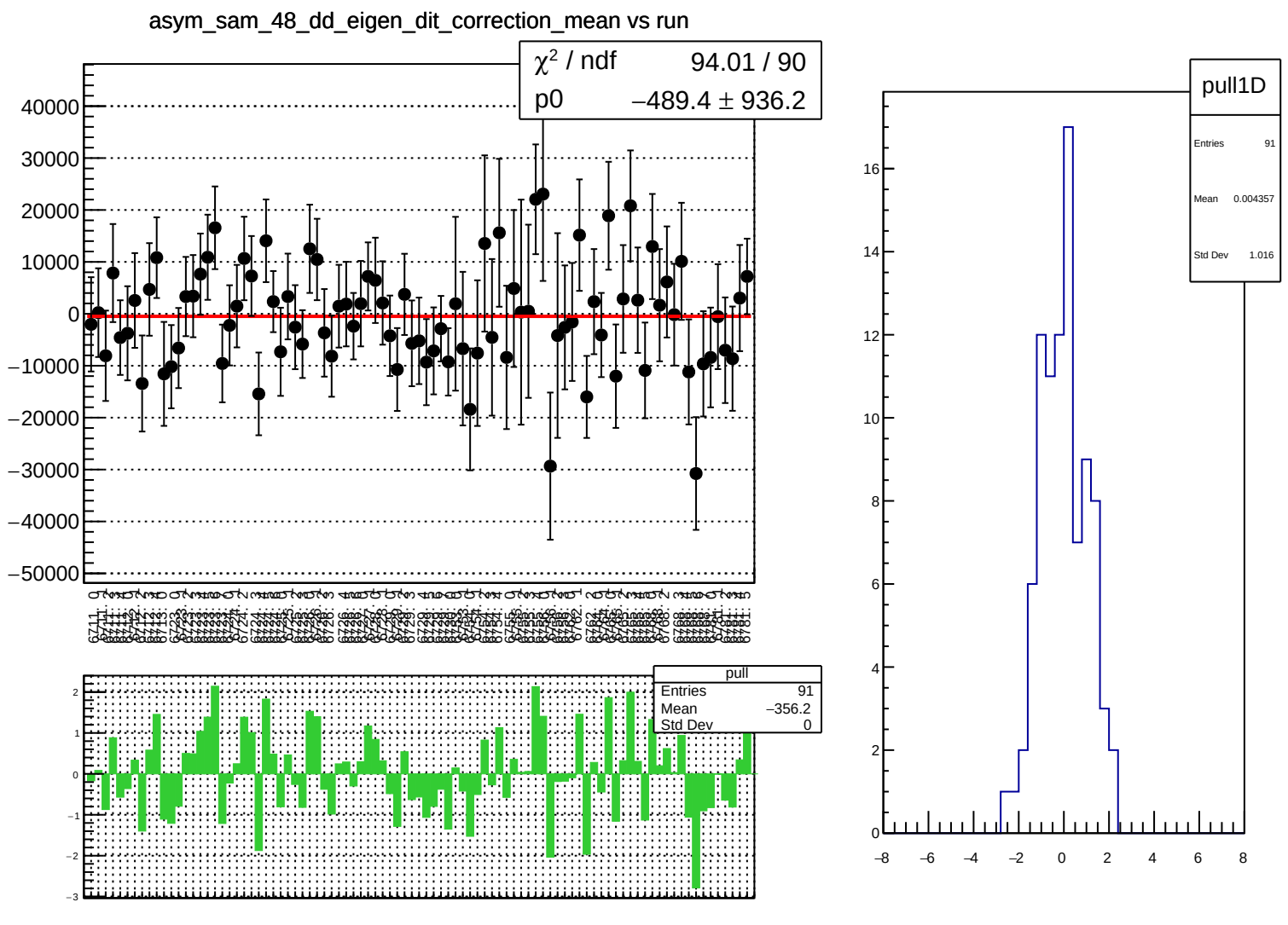

pull1D
Entries 91
Mean 0.004357
Std Dev 1.016

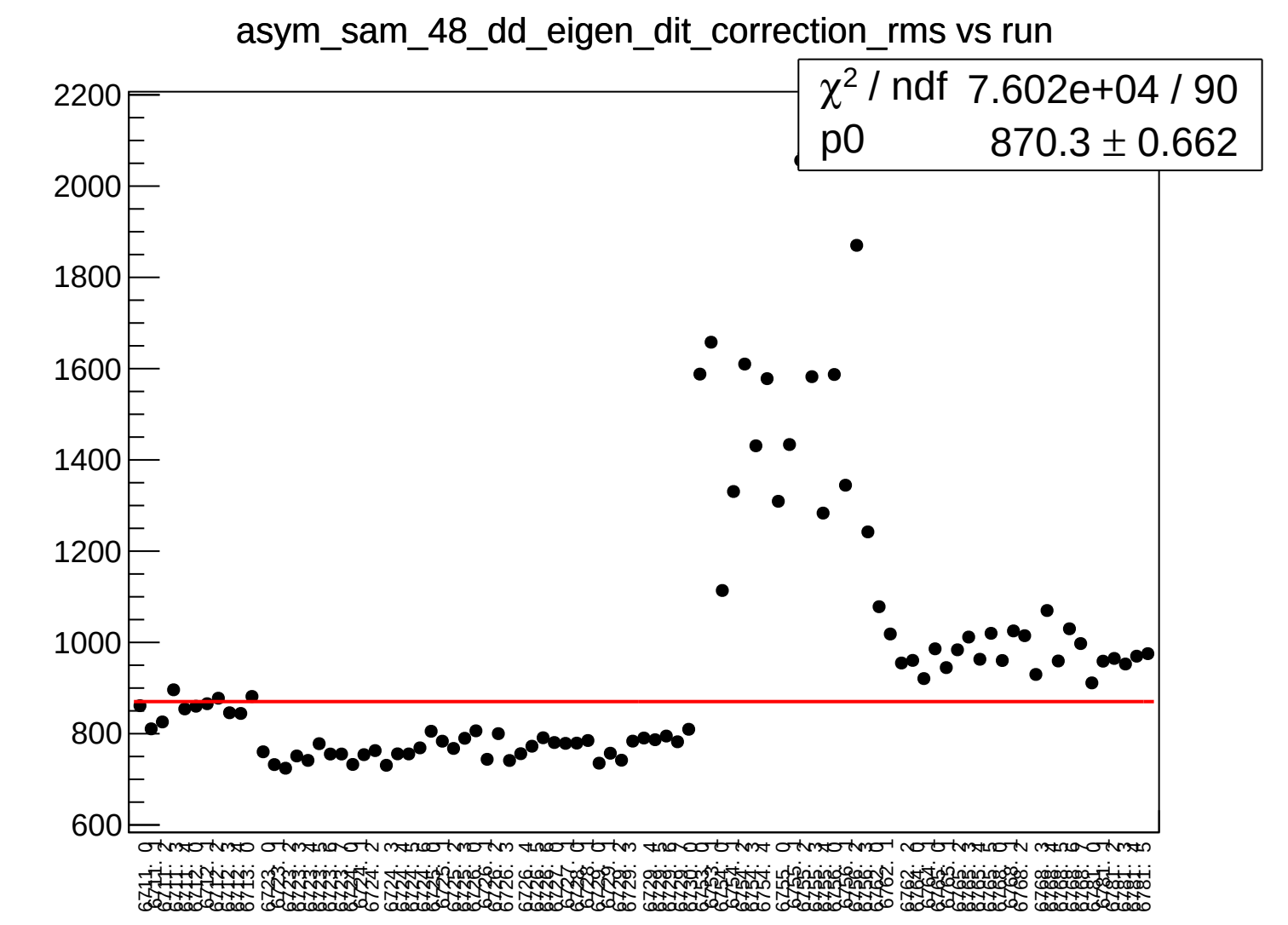

asym_sam_48_dd_dit_correction_rms vs run
χ^2 / ndf 7.602e+04 / 90
p0 870.3 ± 0.662
2200
2000
1800
1600
1400
1200
1000
800
600

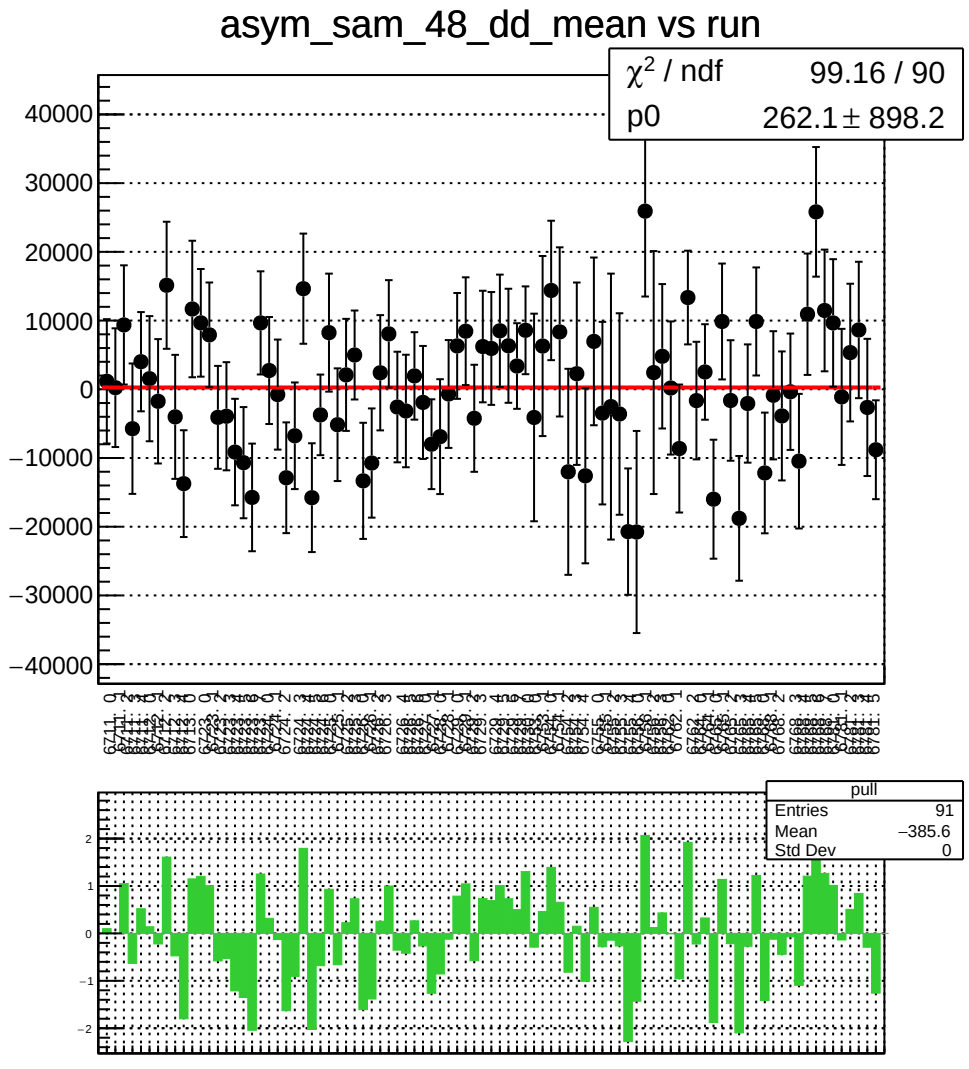

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 98.27 / 90
p0 −304.7 ± 136.8
pull
Entries 91
Mean 33.82
Std Dev 44.78

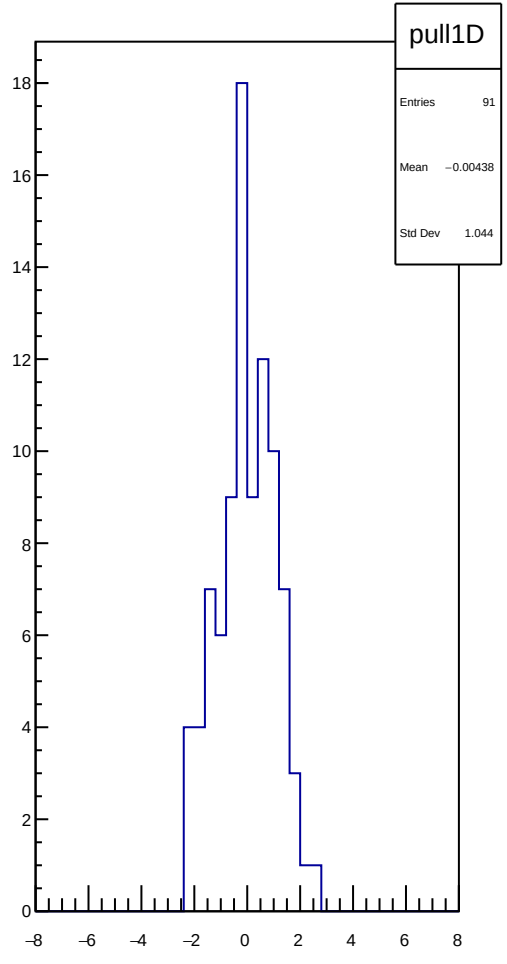

pull1D
Entries 91
Mean 0.03166
Std Dev 1.039

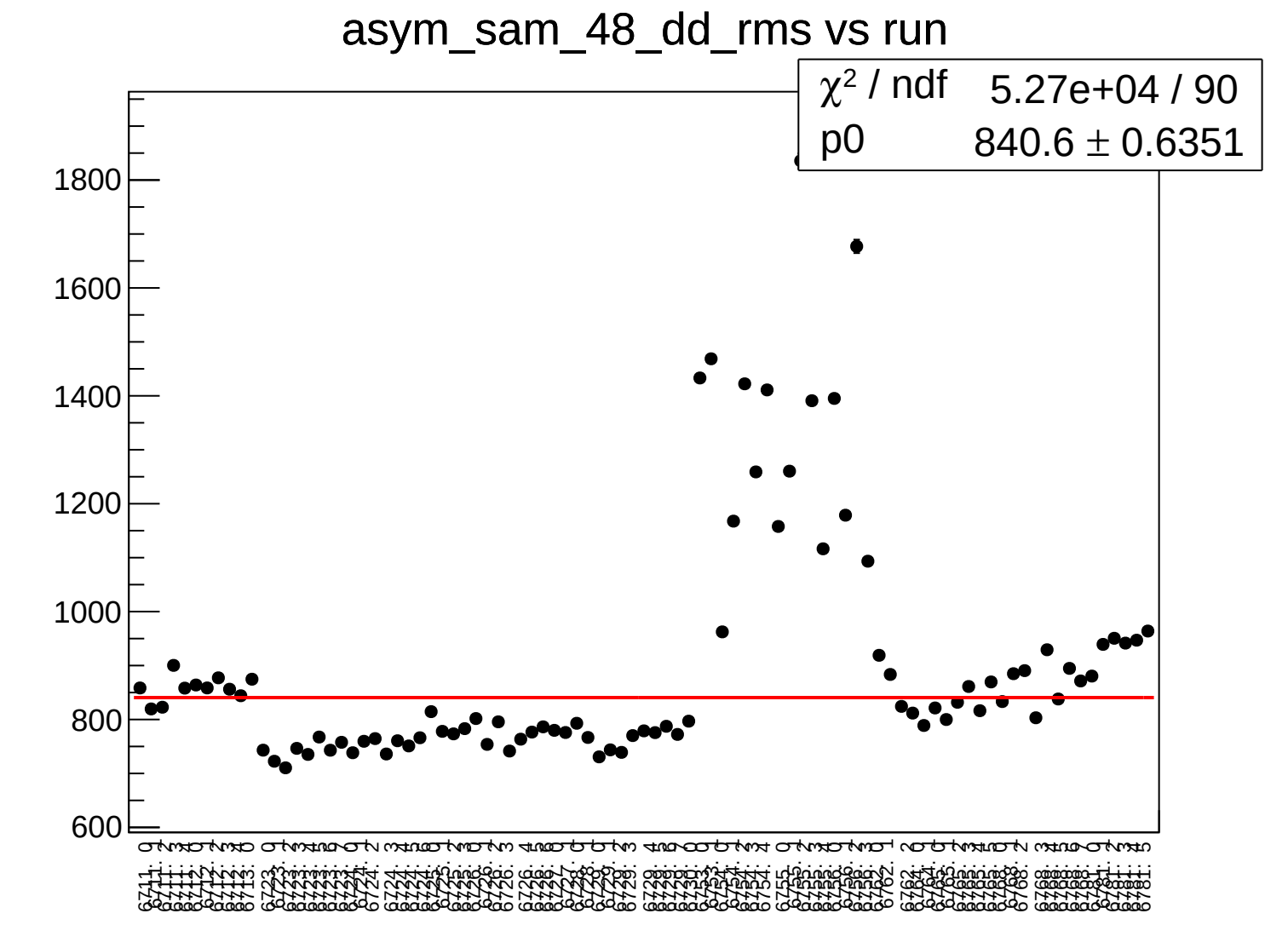

eigen_dit_asym_sam_48_dd_rms vs run
χ^2 / ndf 1.567e+05 / 90
p0 124.1 ± 0.09672
280
260
240
220
200
180
160
140
120
100

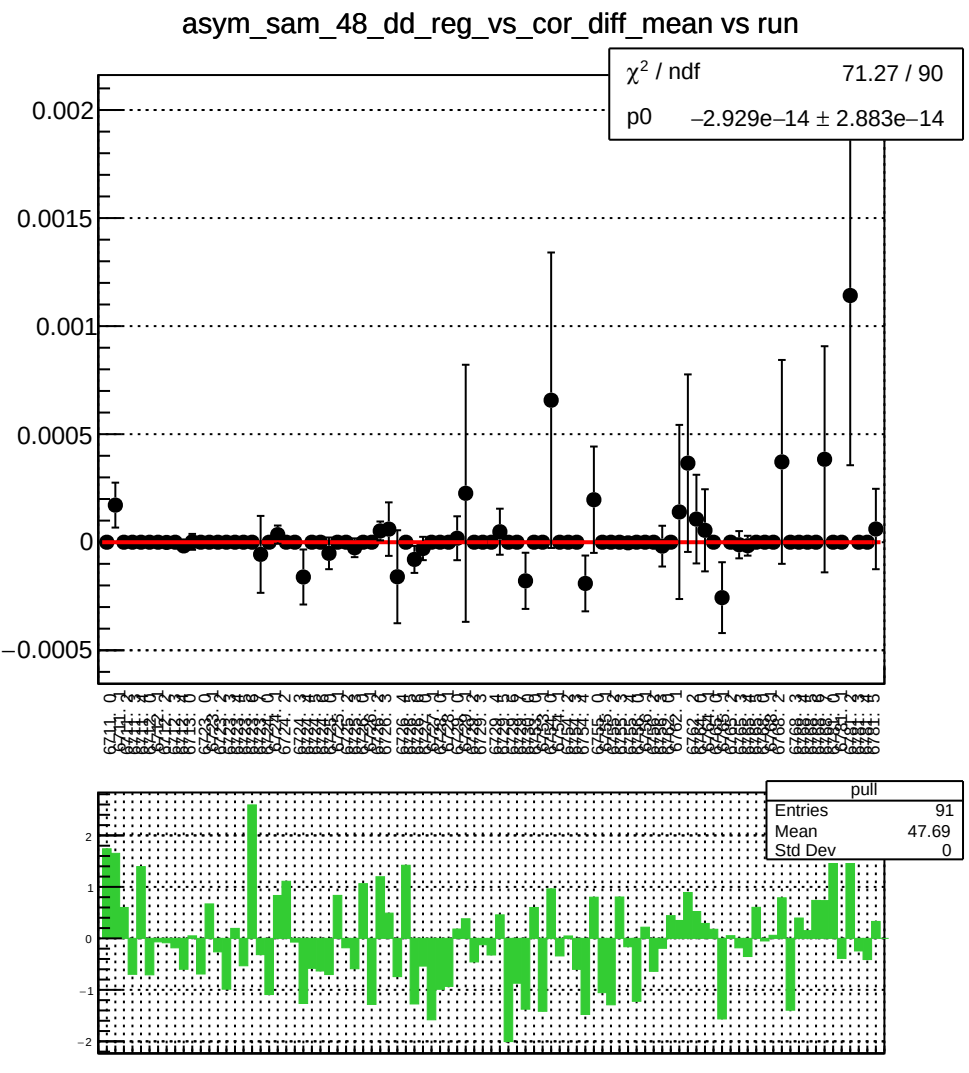

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.01 / 90
p0 −489.4 ± 936.2
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 91
Mean −356.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.004357
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

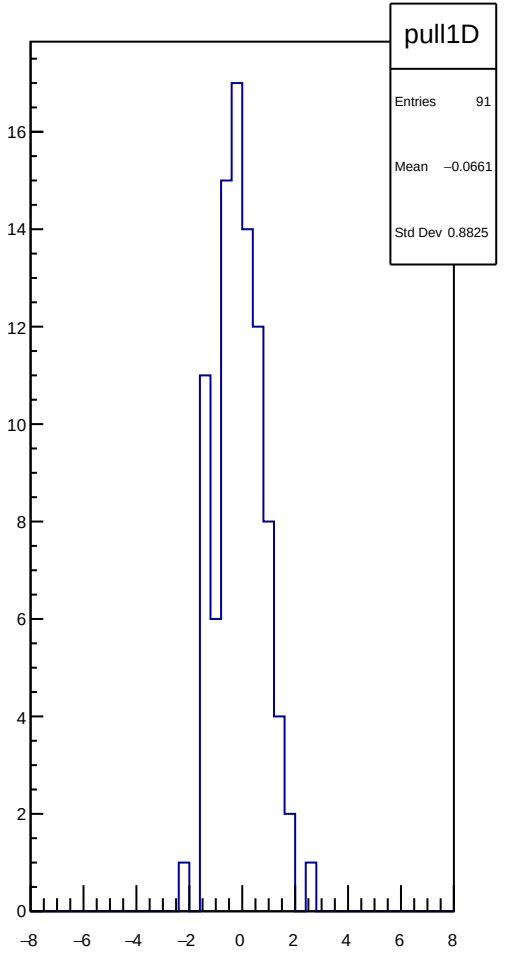

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 7.602e+04 / 90
p0 870.3 ± 0.662
2200
2000
1800
1600
1400
1200
1000
800
600

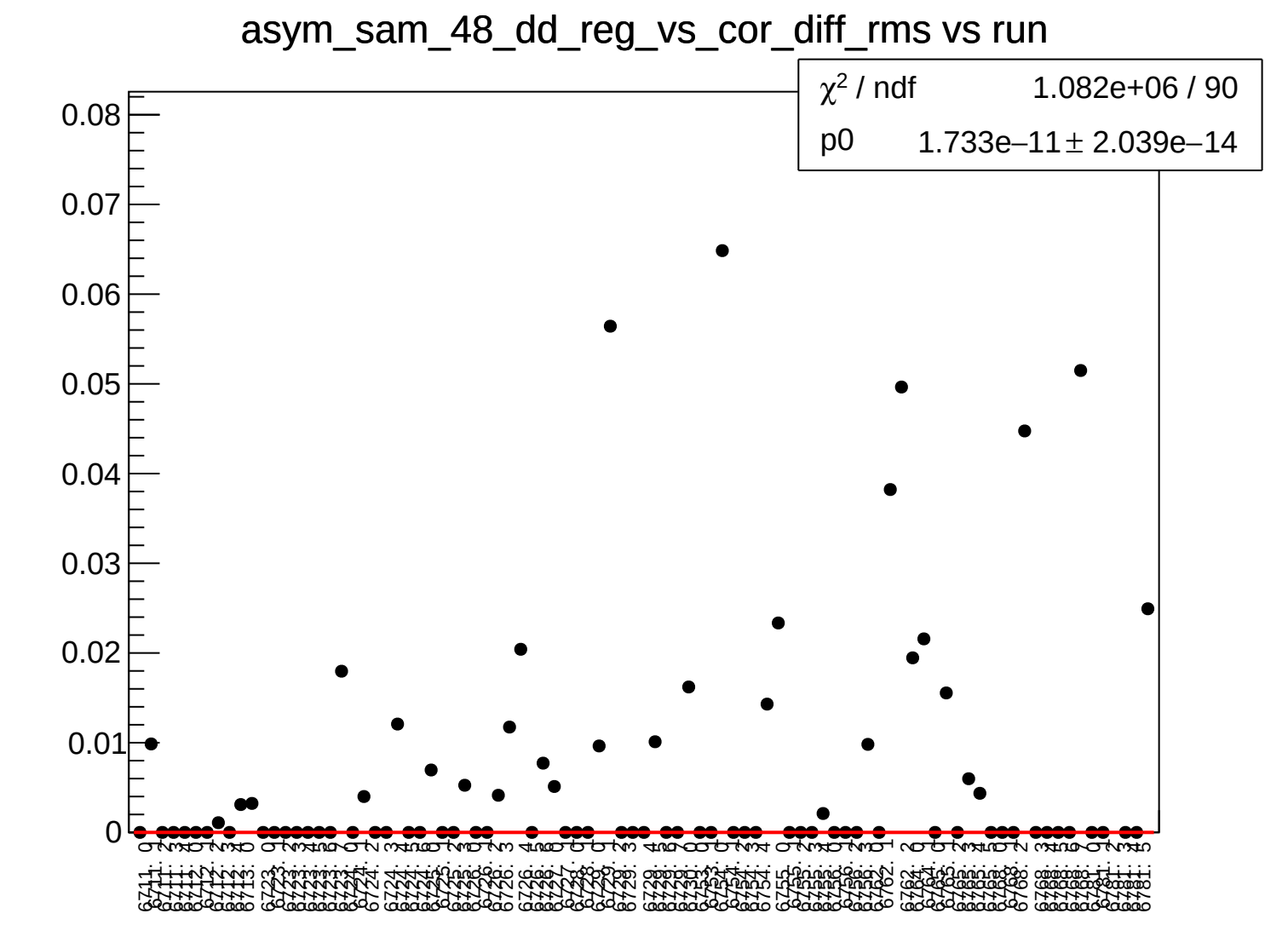

asym_sam_48_dd_mean vs run
χ² / ndf 99.16 / 90
p0 262.1 ± 898.2
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean −385.6
Std Dev 0
2
1
0
−1
−2

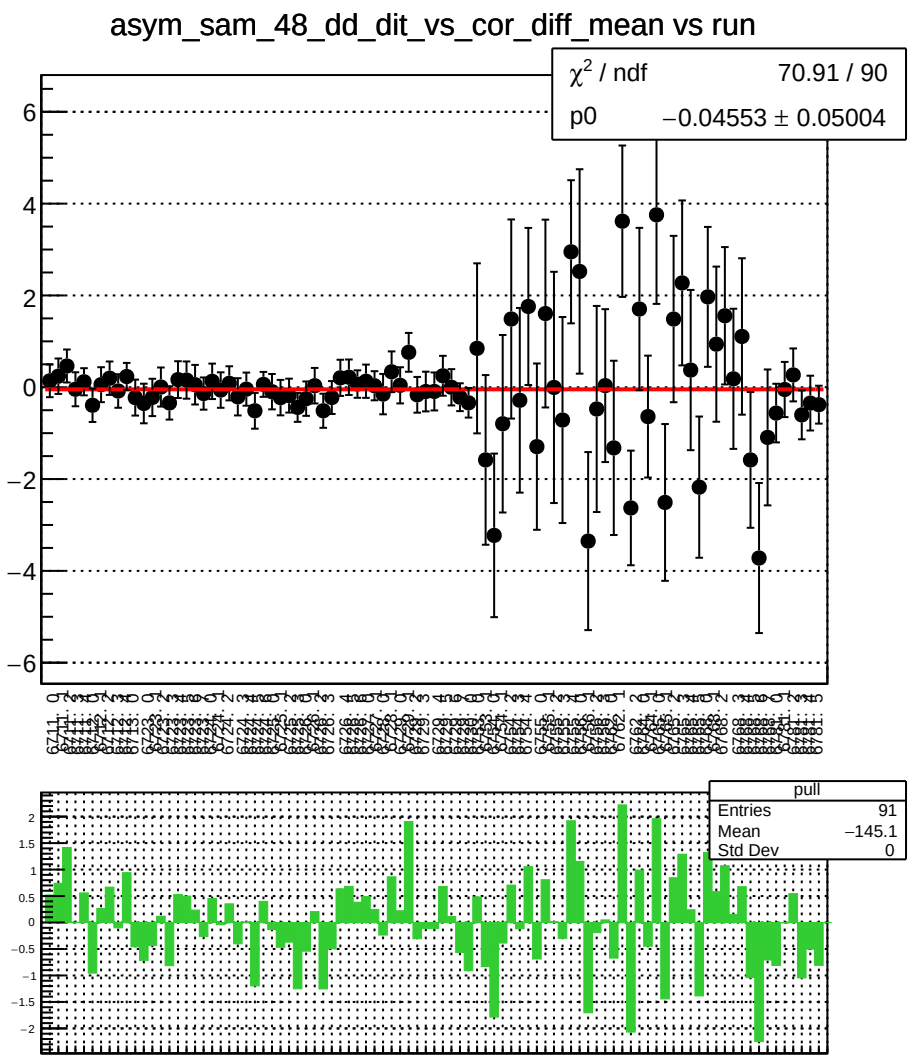

pull1D
Entries 91
Mean −0.00438
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

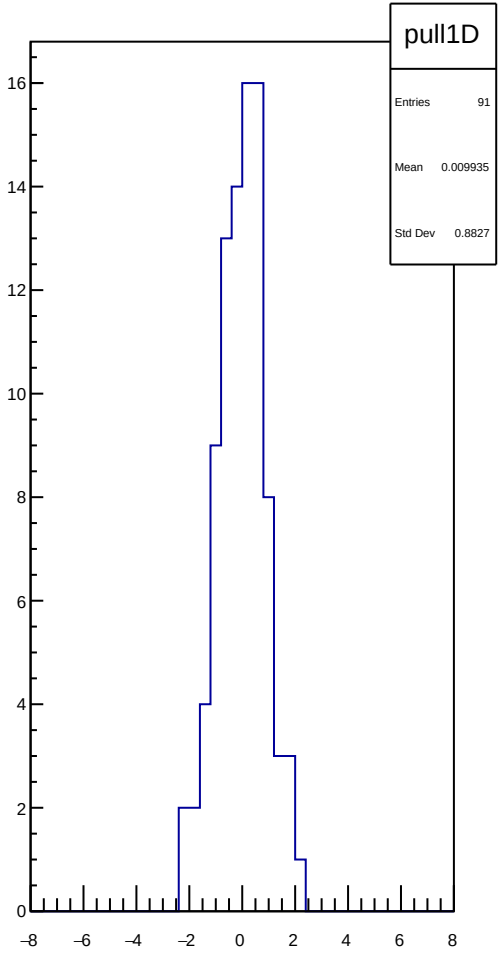

asym_sam_48_dd_rms vs run
χ² / ndf 5.27e+04 / 90
p0 840.6 ± 0.6351
1800
1600
1400
1200
1000
800
600

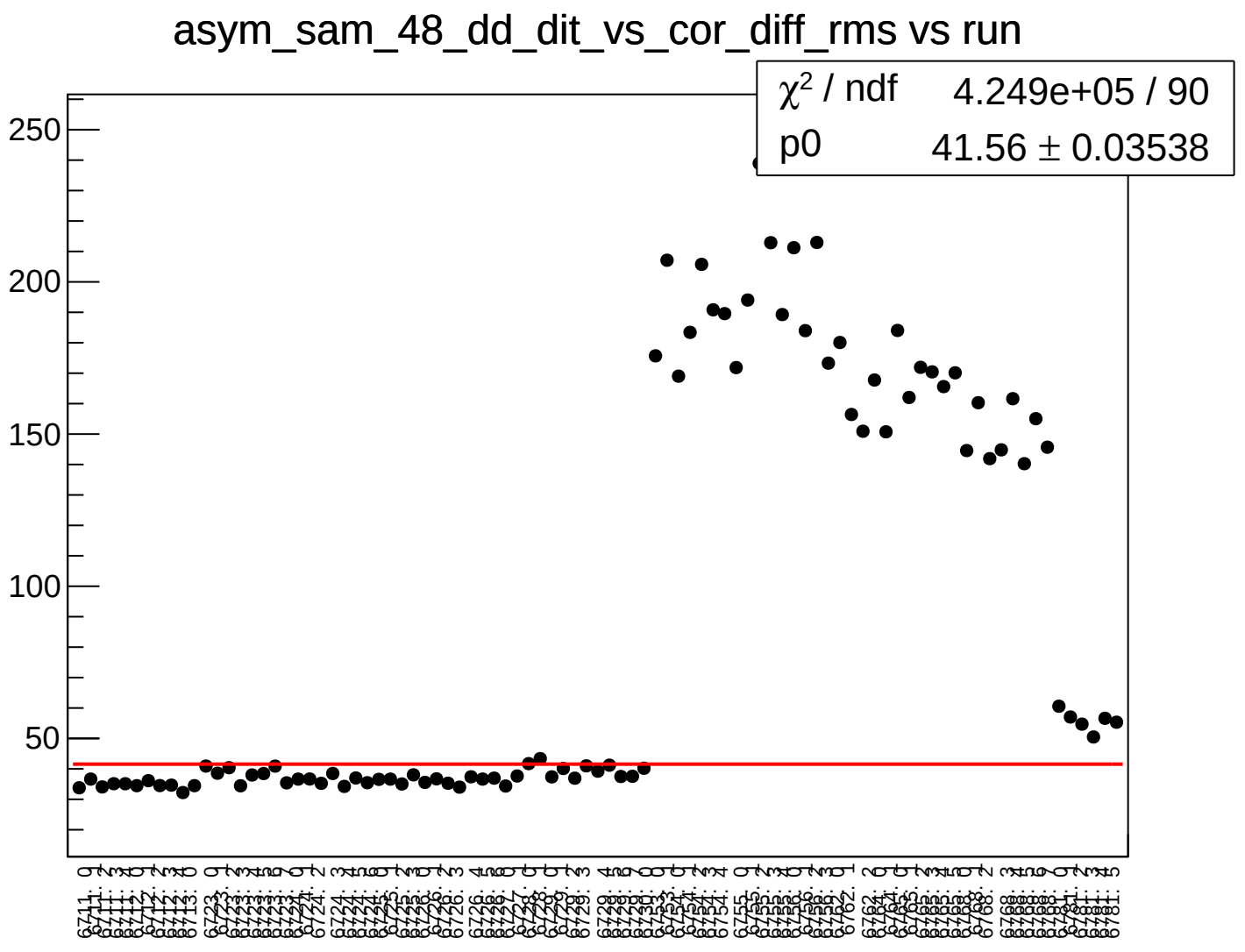

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 71.27 / 90
p0 −2.929e−14 ± 2.883e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 91
Mean 47.69
Std Dev 0
2
1
0
−1
−2

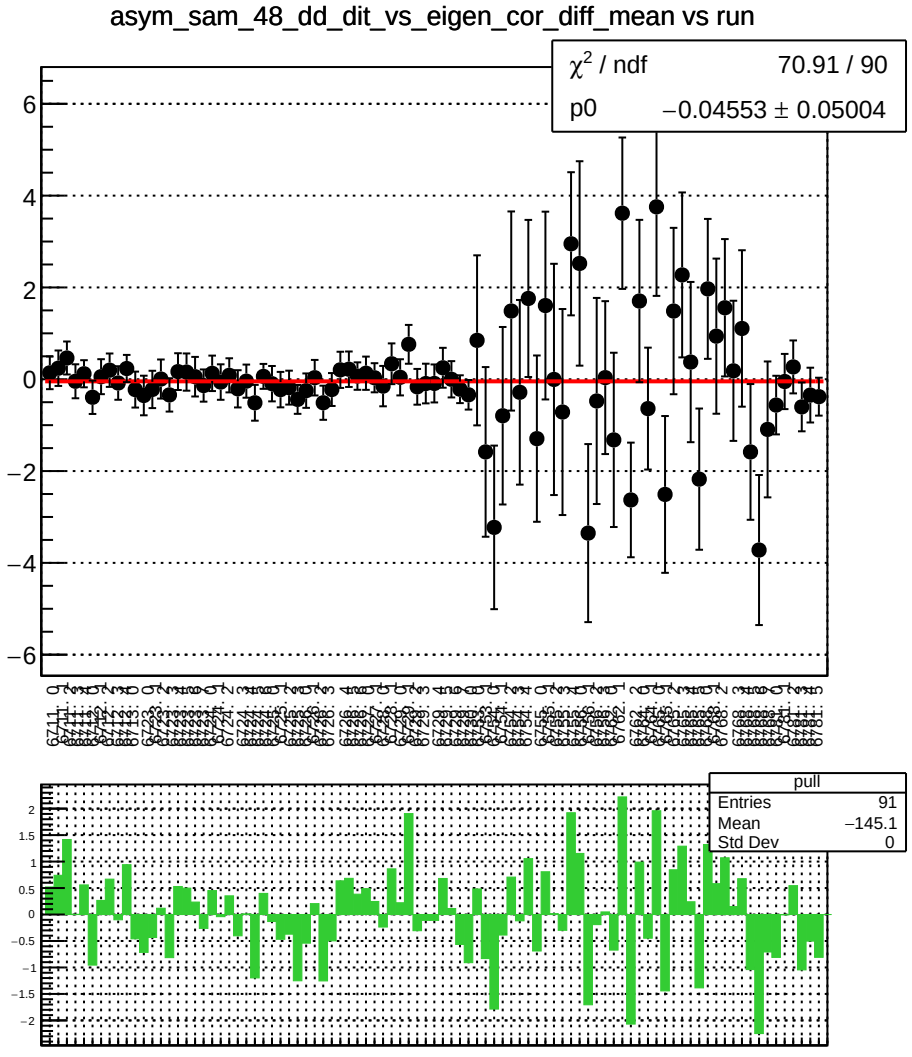

pull1D
Entries 91
Mean −0.0661
Std Dev 0.8825
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

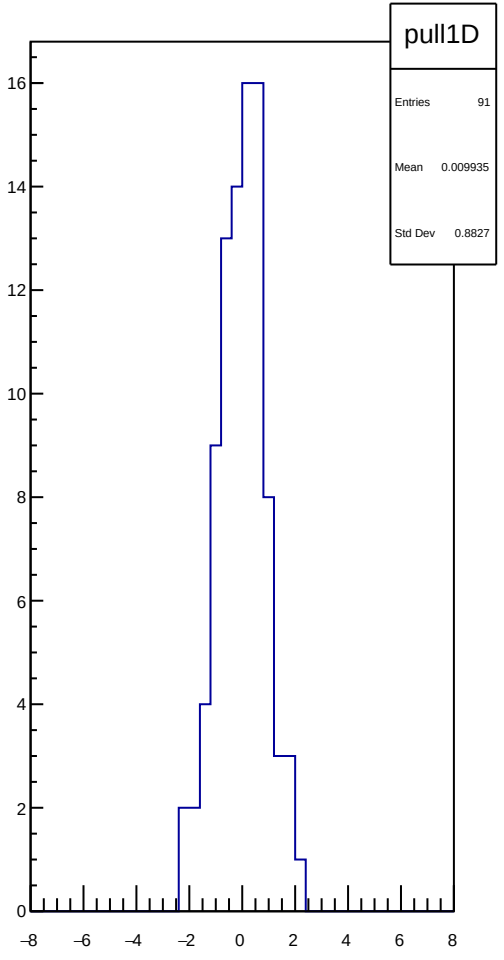

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.082e+06 / 90
p0 1.733e−11 ± 2.039e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

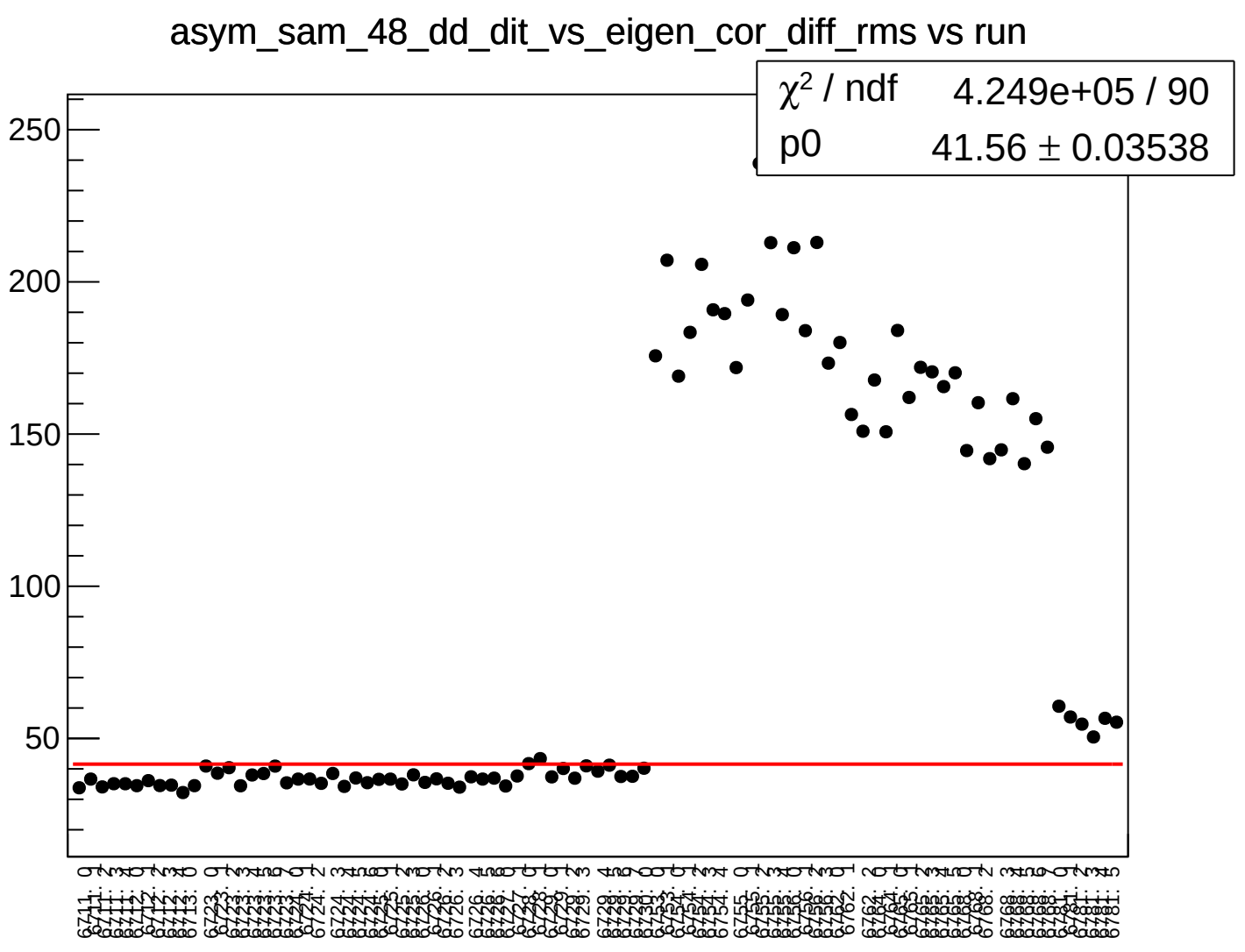

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 70.91 / 90
p0 −0.04553 ± 0.05004
pull
Entries 91
Mean −145.1
Std Dev 0

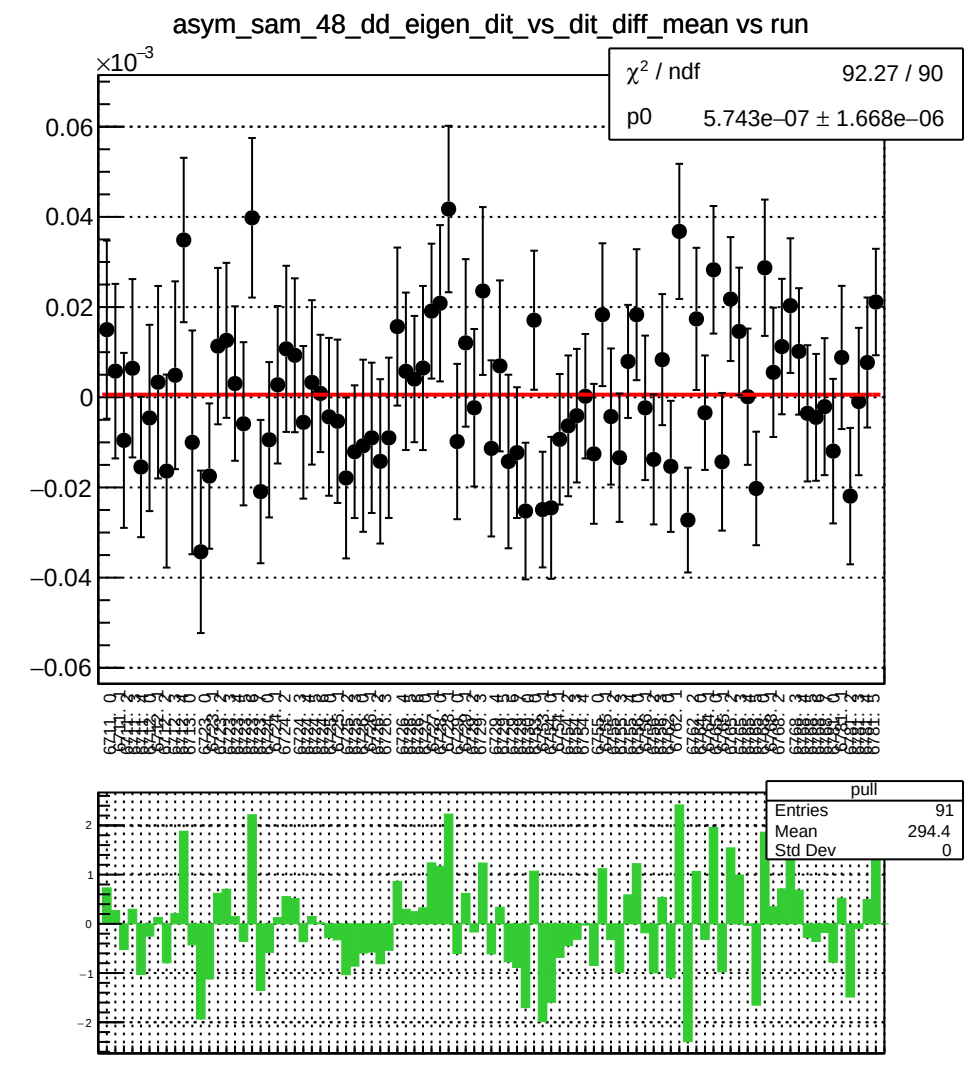

pull1D
Entries 91
Mean 0.009935
Std Dev 0.8827

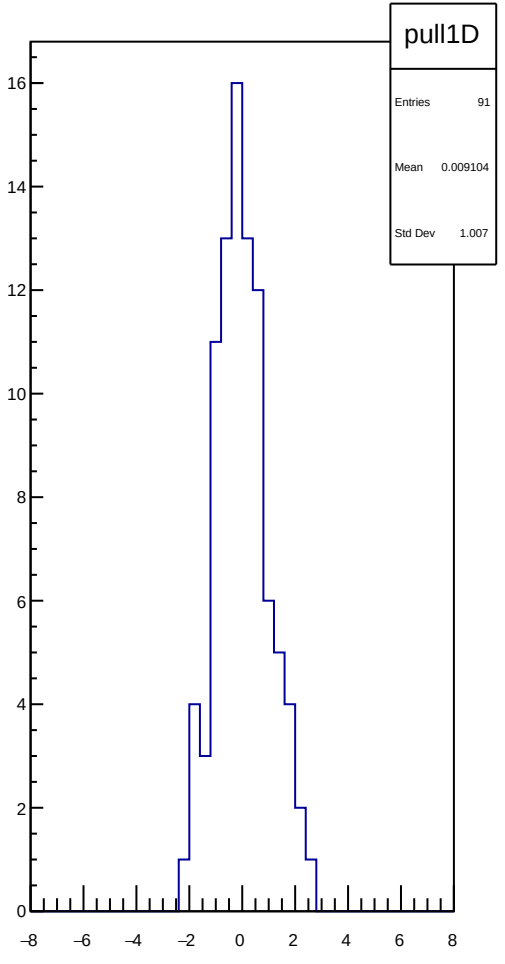

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.249e+05 / 90
p0 41.56 ± 0.03538
250
200
150
100
50

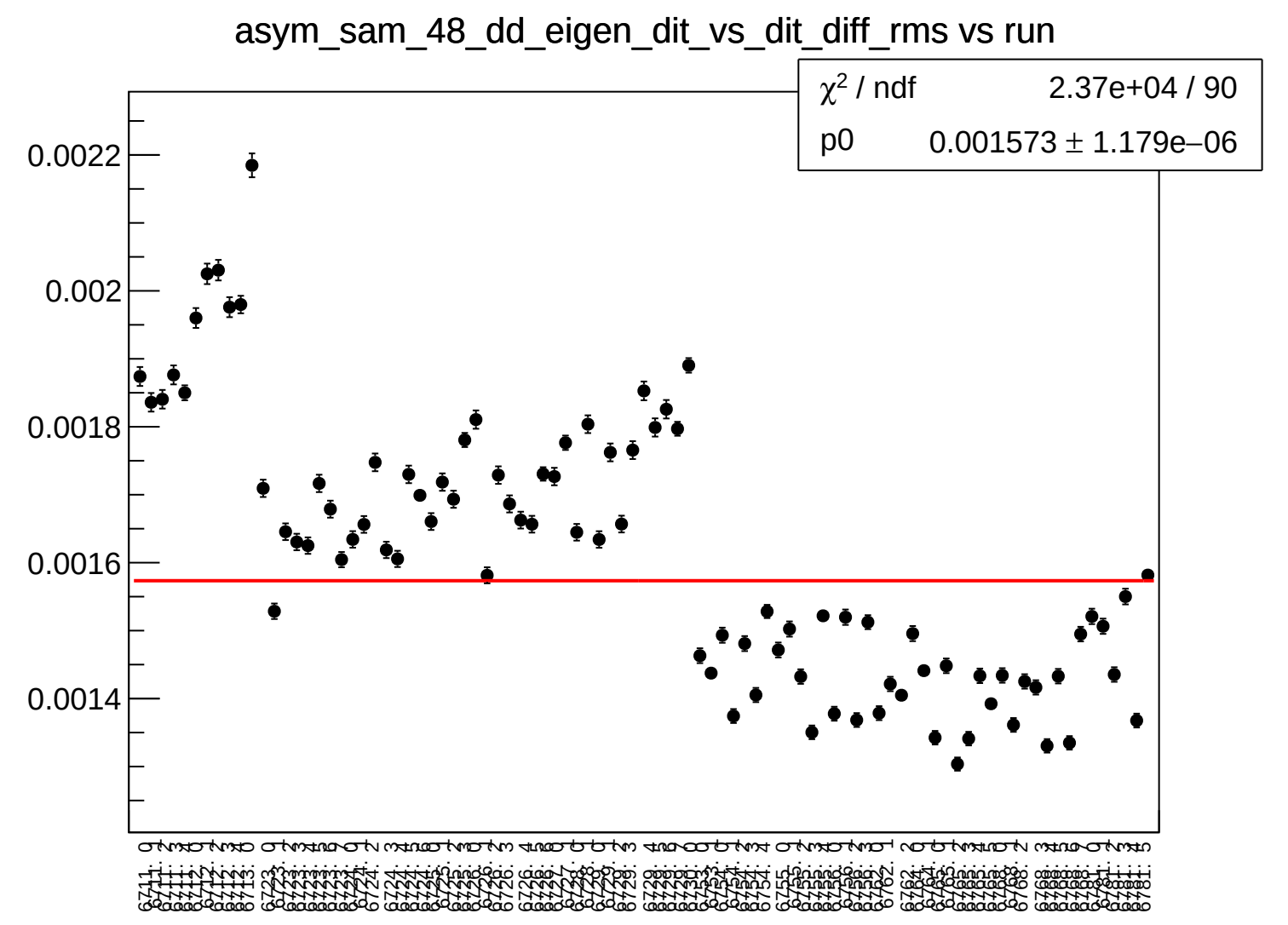

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.91 / 90
p0 −0.04553 ± 0.05004
pull
Entries 91
Mean −145.1
Std Dev 0

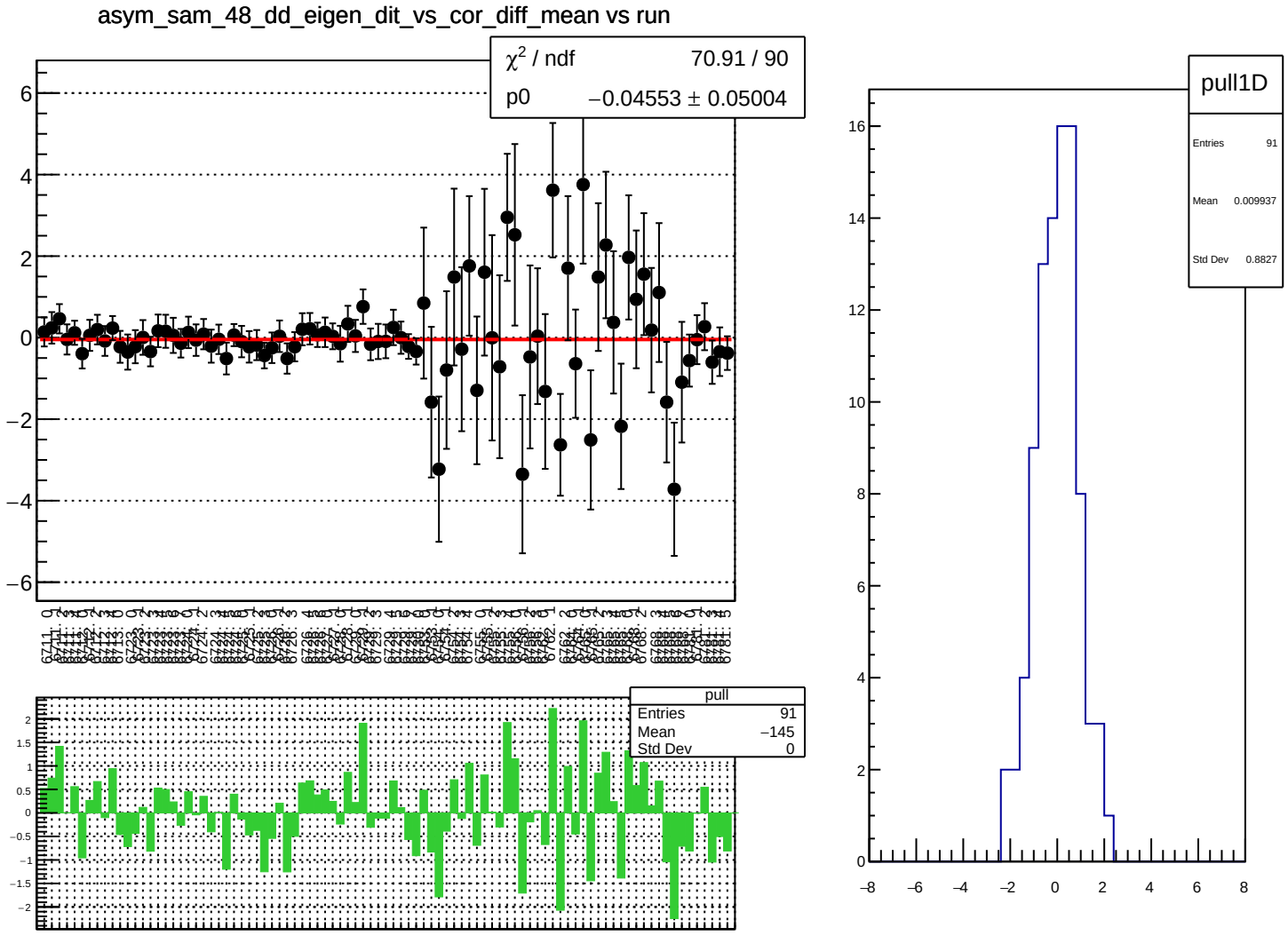

pull1D
Entries 91
Mean 0.009935
Std Dev 0.8827

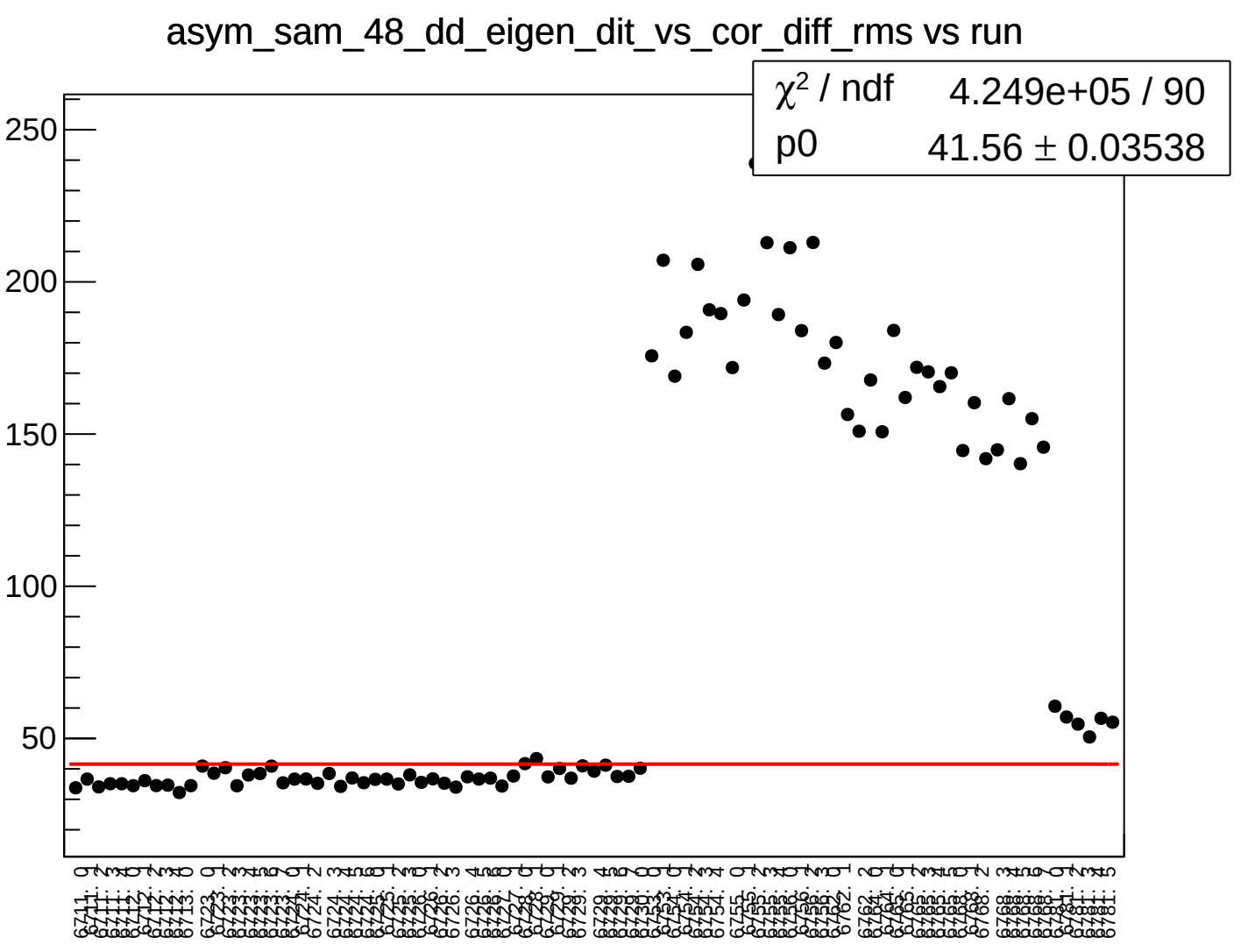

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.249e+05 / 90
p0 41.56 ± 0.03538
250
200
150
100
50

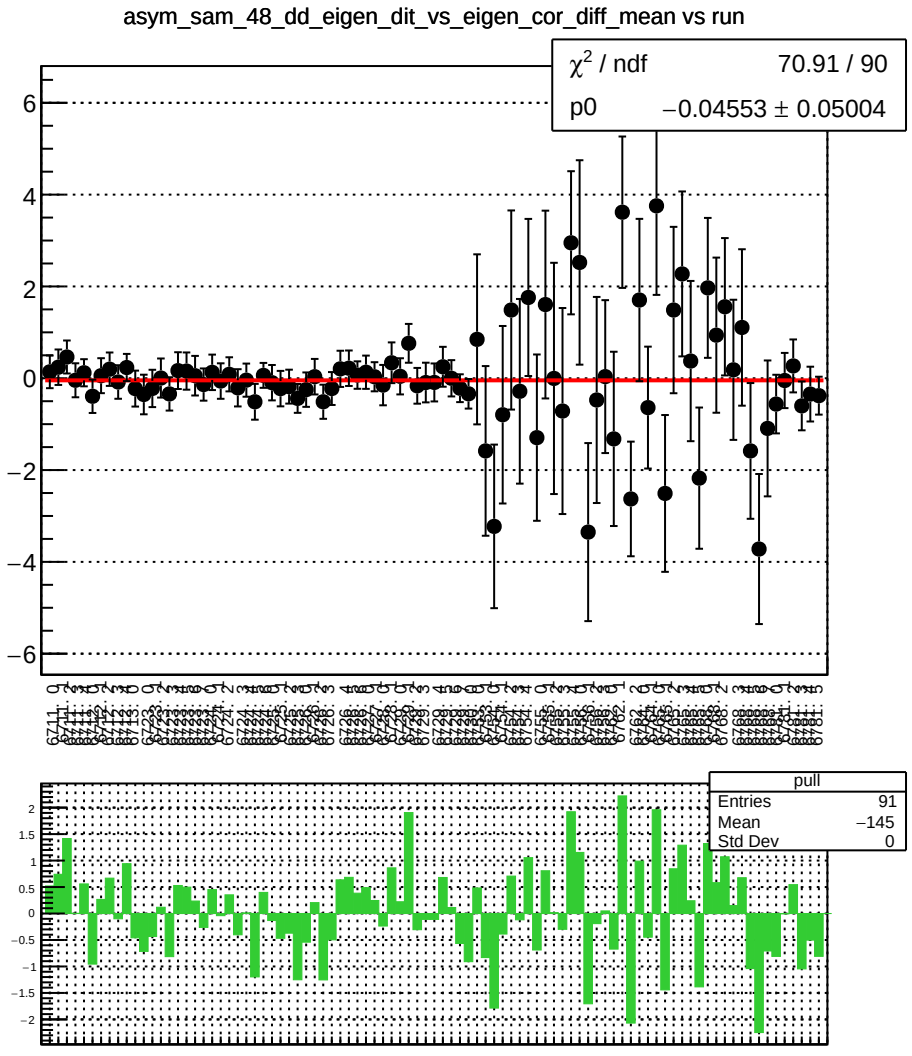

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.27 / 90
p0 5.743e−07 ± 1.668e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 294.4
Std Dev 0
2
1
0
−1
−2

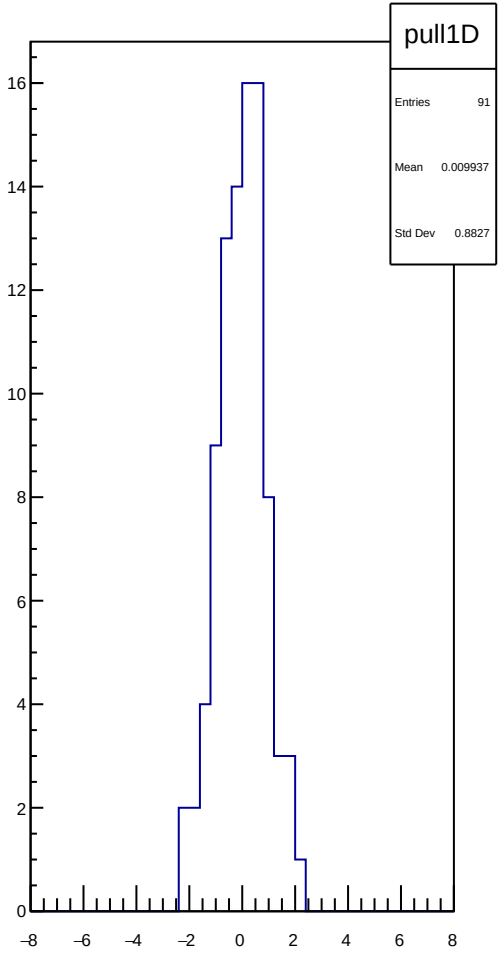

pull1D
Entries 91
Mean 0.009104
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

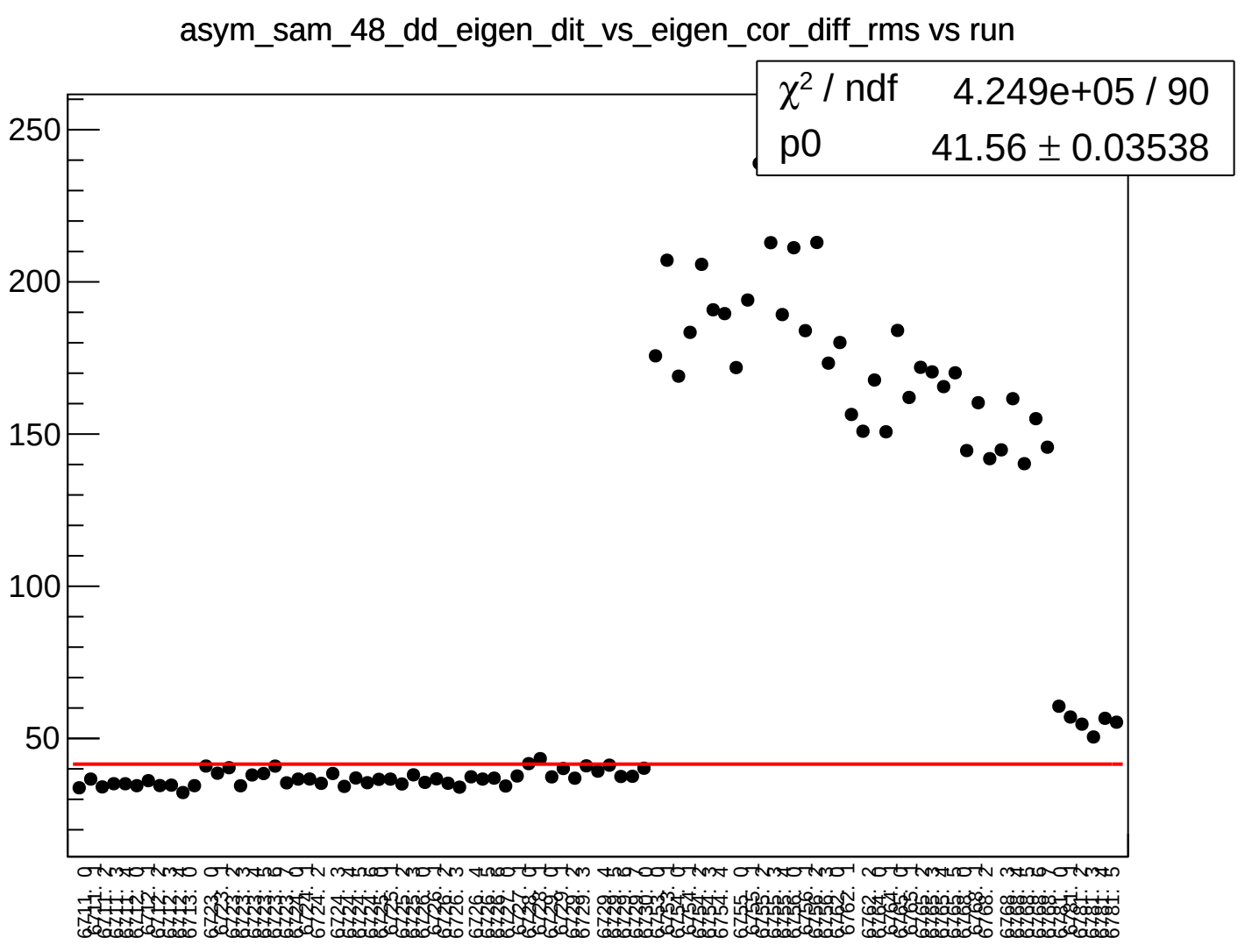

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.37e+04 / 90
p0 0.001573 ± 1.179e−06
0.0022
0.002
0.0018
0.0016
0.0014

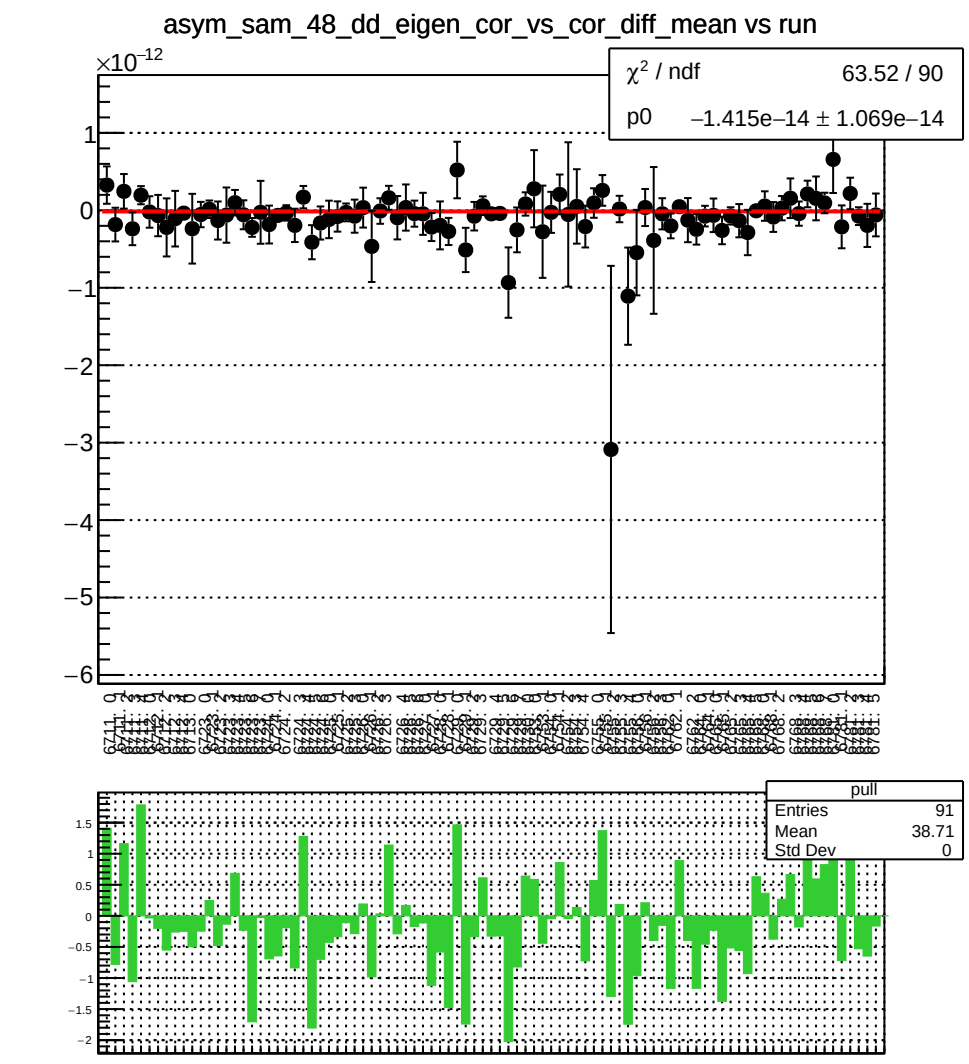

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.91 / 90
p0 −0.04553 ± 0.05004
pull
Entries 91
Mean −145
Std Dev 0
pull1D
Entries 91
Mean 0.009937
Std Dev 0.8827

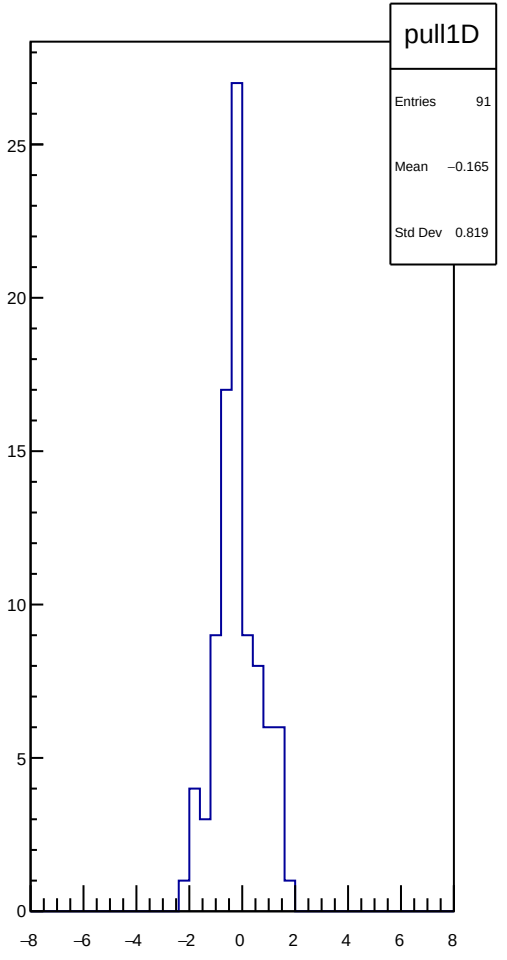

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.249e+05 / 90
p0 41.56 ± 0.03538
250
200
150
100
50

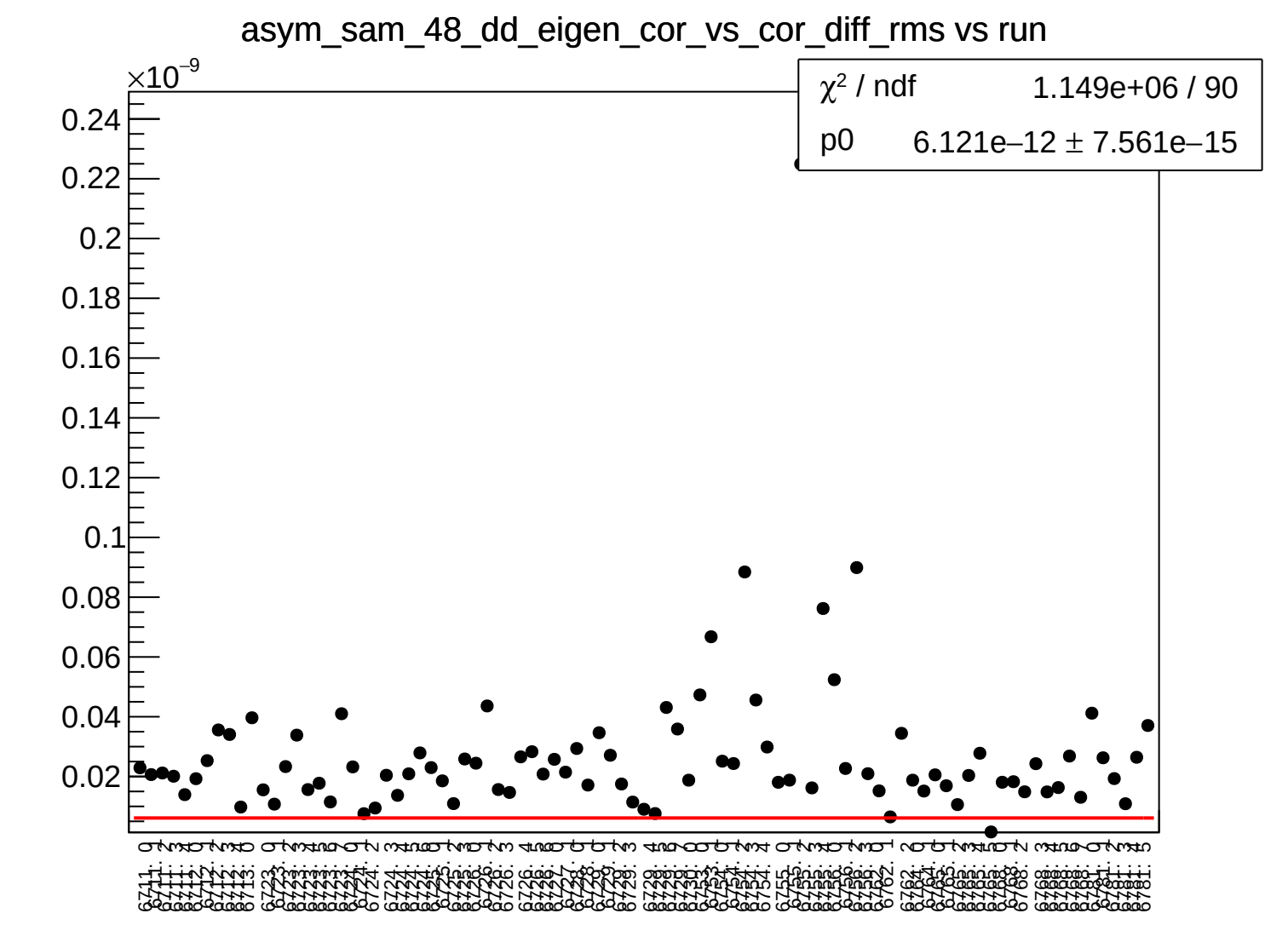

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.91 / 90
p0 −0.04553 ± 0.05004
pull
Entries 91
Mean −145
Std Dev 0

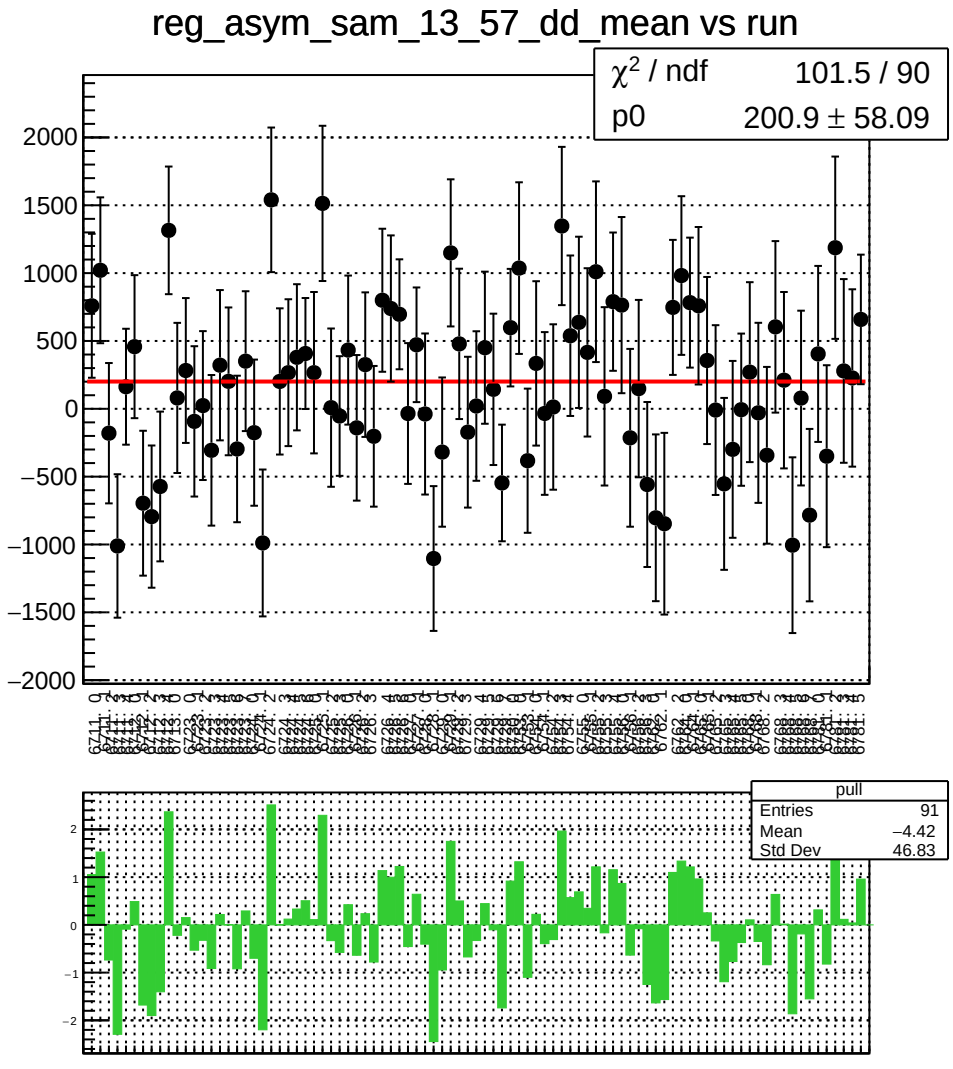

pull1D
Entries 91
Mean 0.009937
Std Dev 0.8827

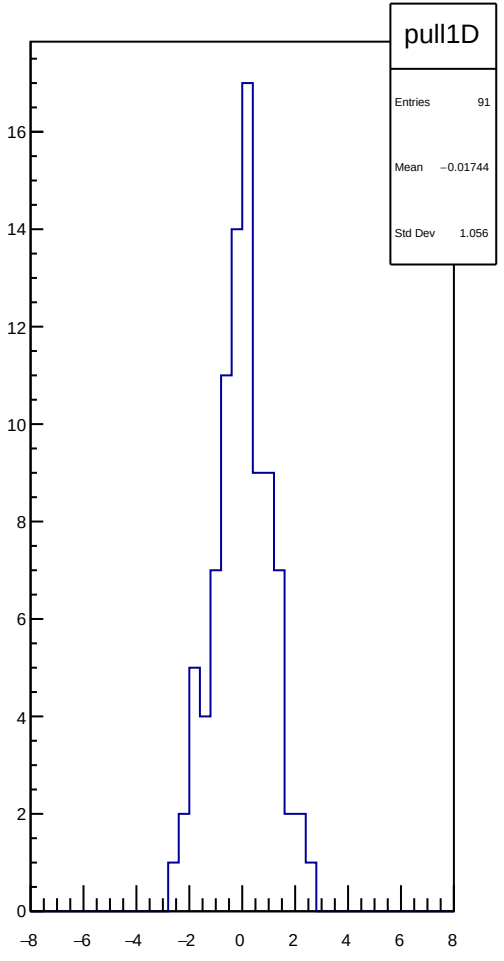

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.249e+05 / 90
p0 41.56 ± 0.03538
250
200
150
100
50

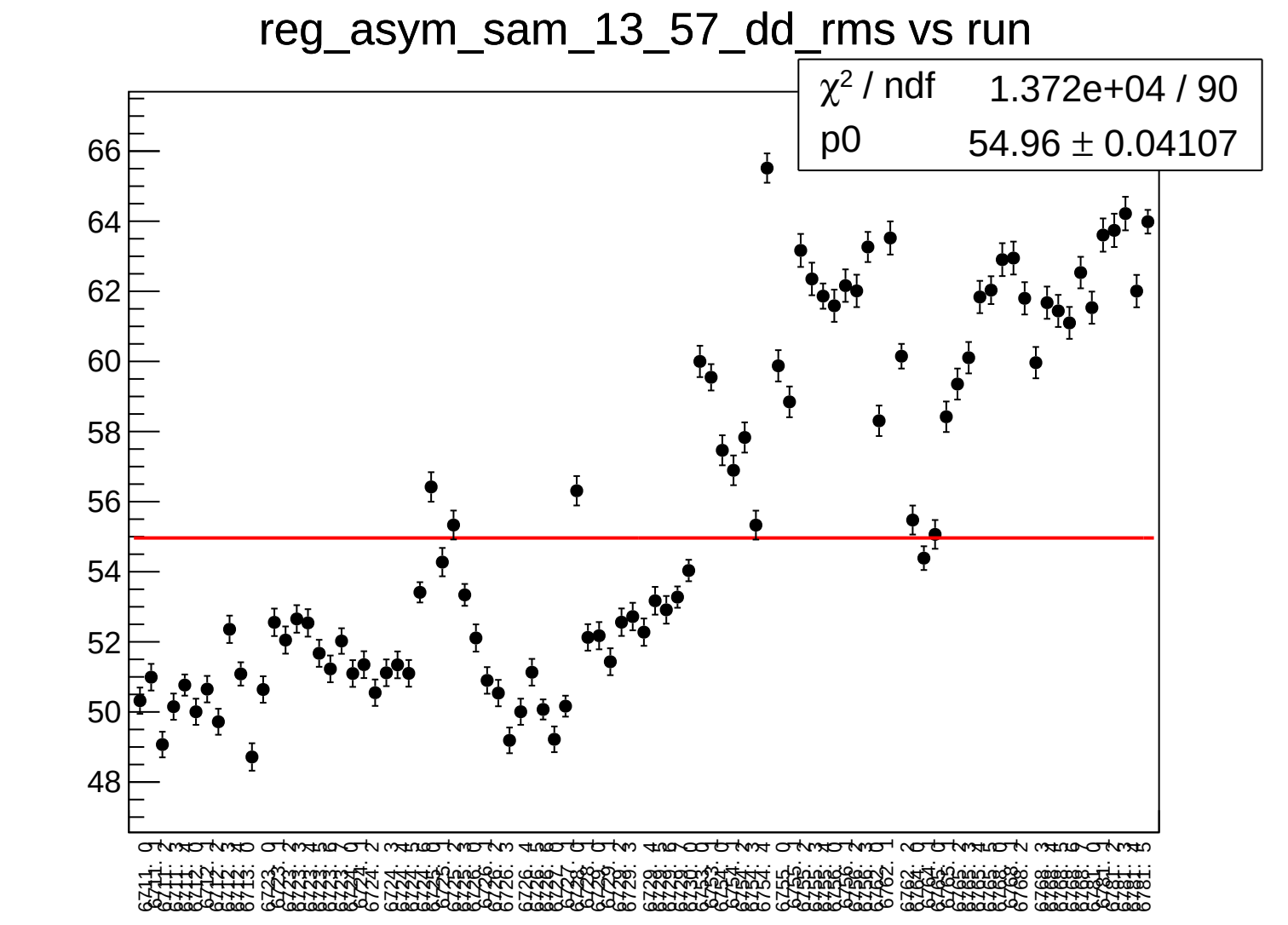

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 63.52 / 90
p0 −1.415e−14 ± 1.069e−14
pull
Entries 91
Mean 38.71
Std Dev 0

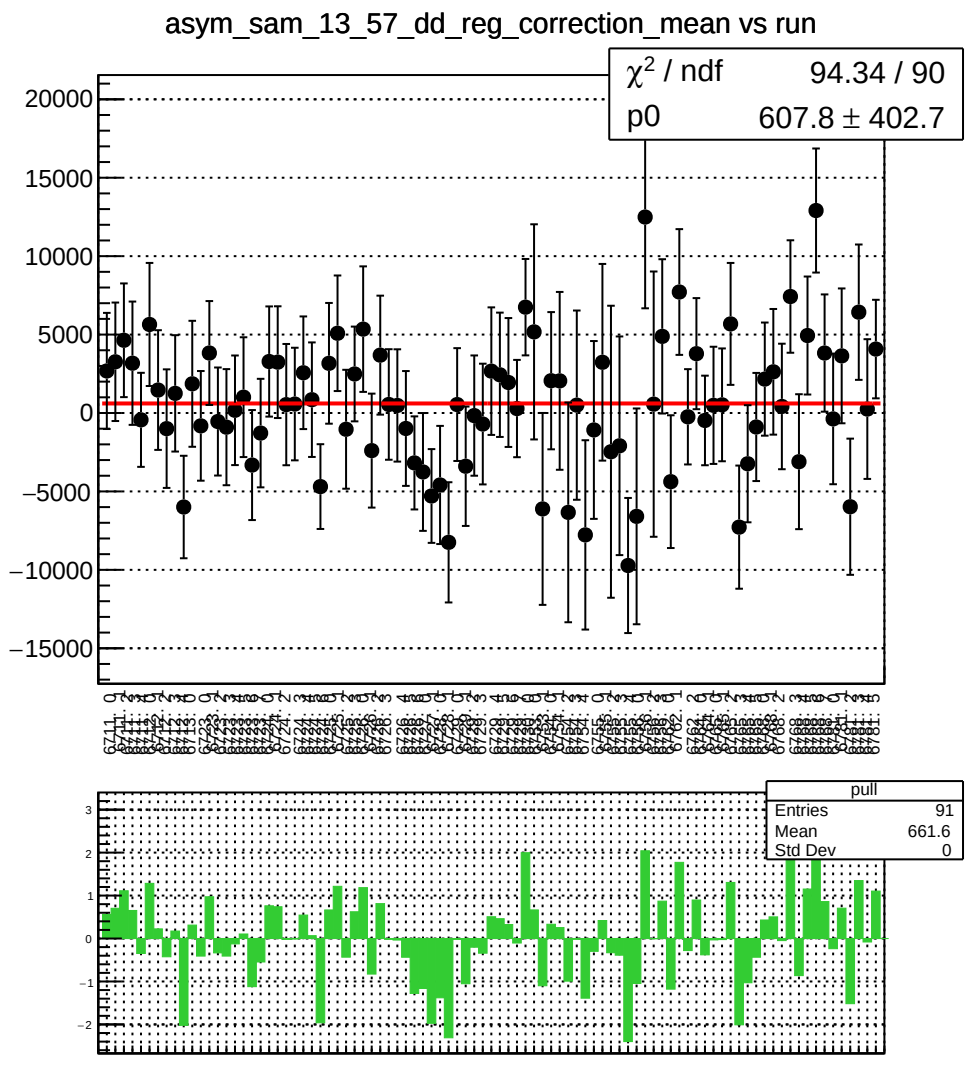

pull1D
Entries 91
Mean −0.165
Std Dev 0.819

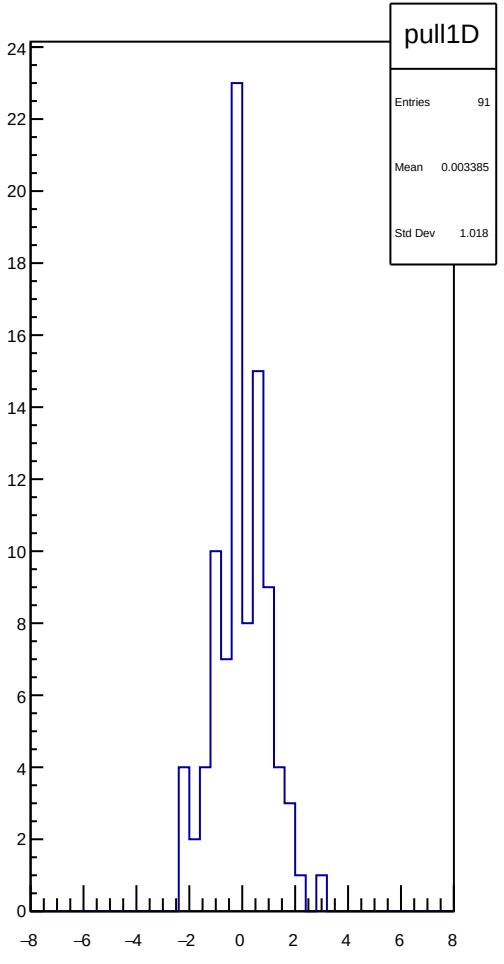

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.149e+06 / 90
p0 6.121e−12 ± 7.561e−15
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

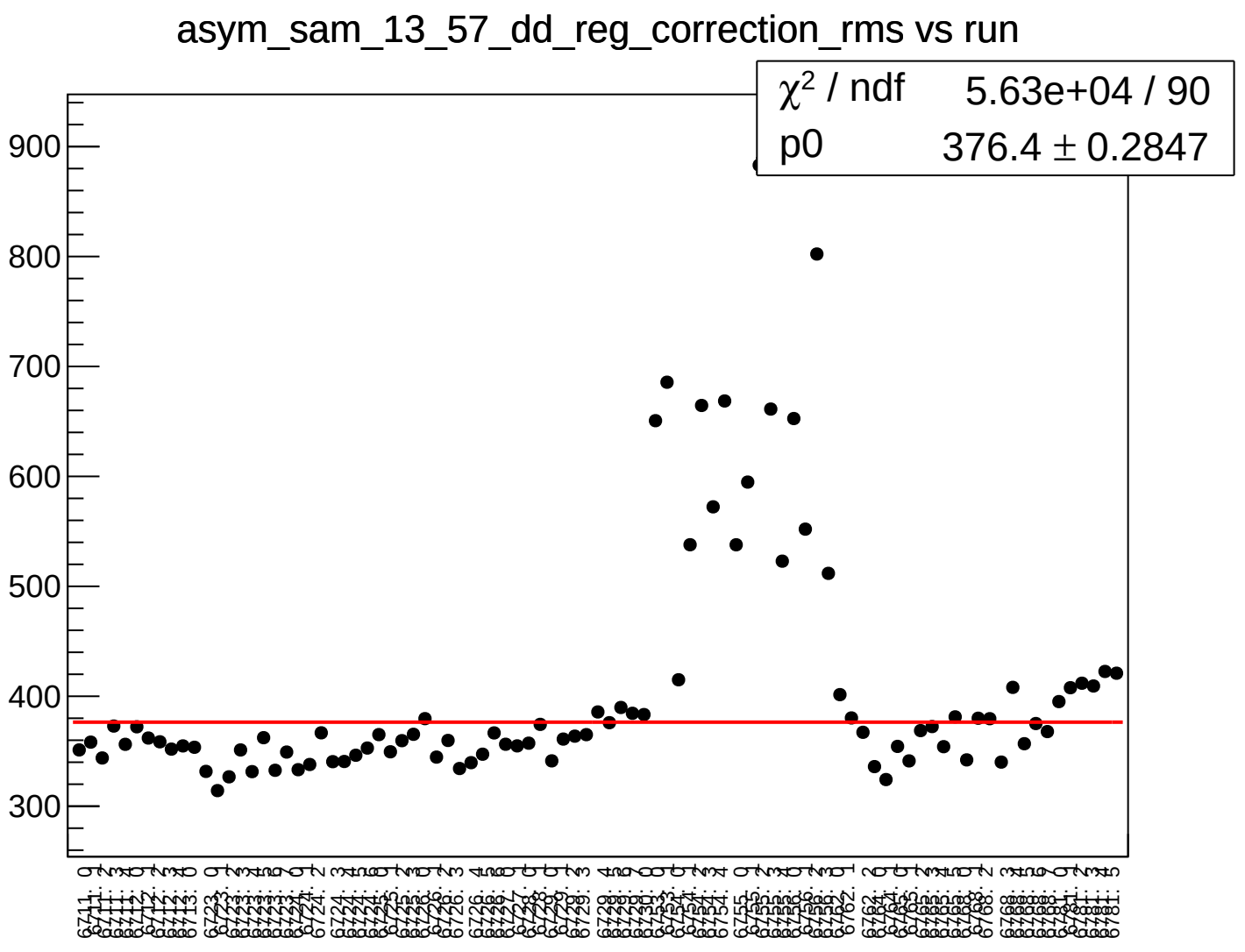

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 101.5 / 90
p0 200.9 ± 58.09
pull
Entries 91
Mean −4.42
Std Dev 46.83

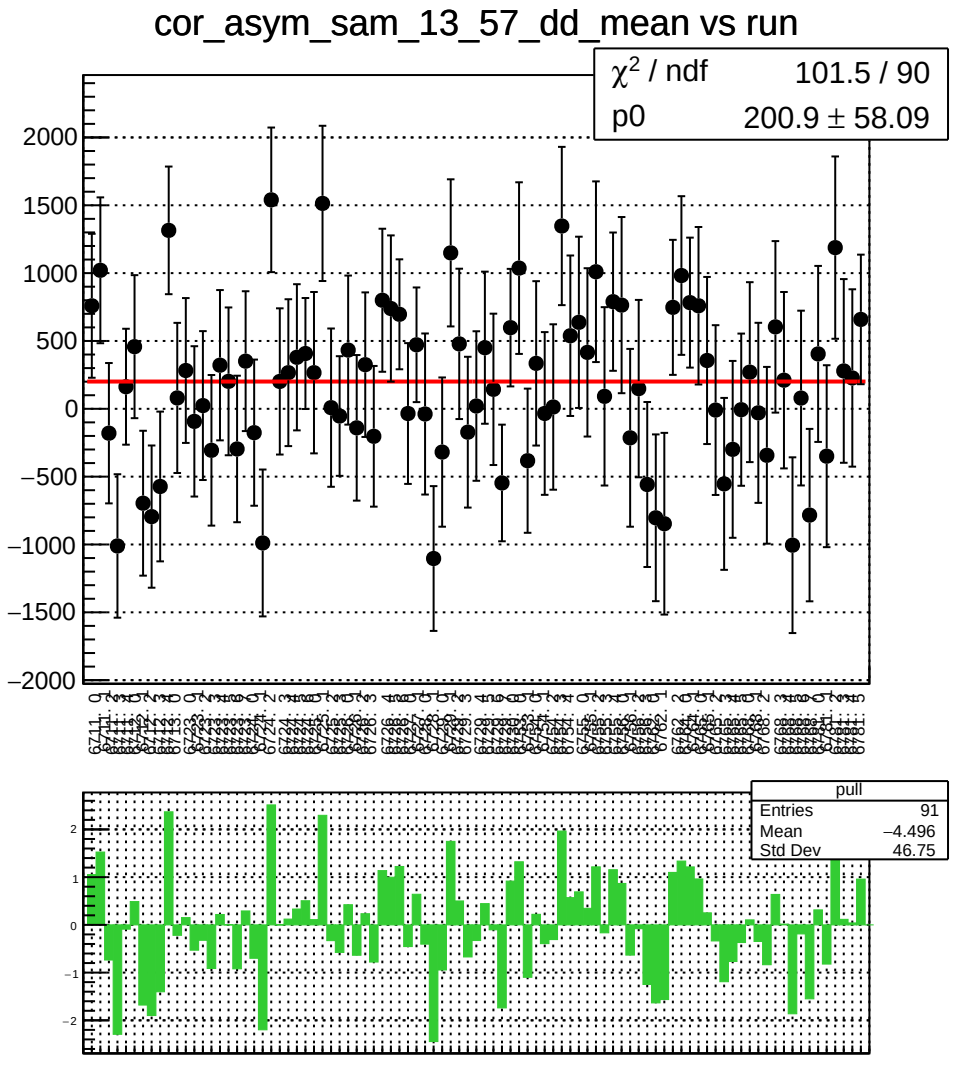

pull1D
Entries 91
Mean −0.01744
Std Dev 1.056

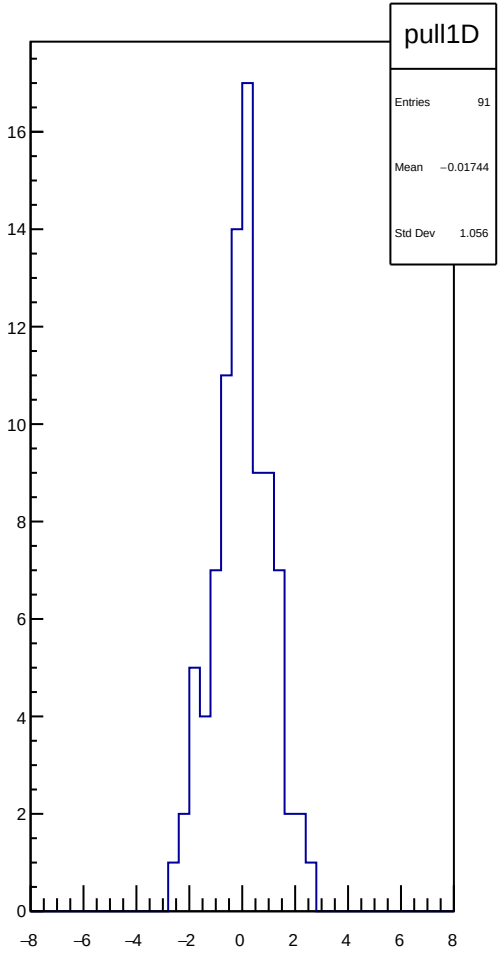

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.372e+04 / 90
p0 54.96 ± 0.04107
66
64
62
60
58
56
54
52
50
48

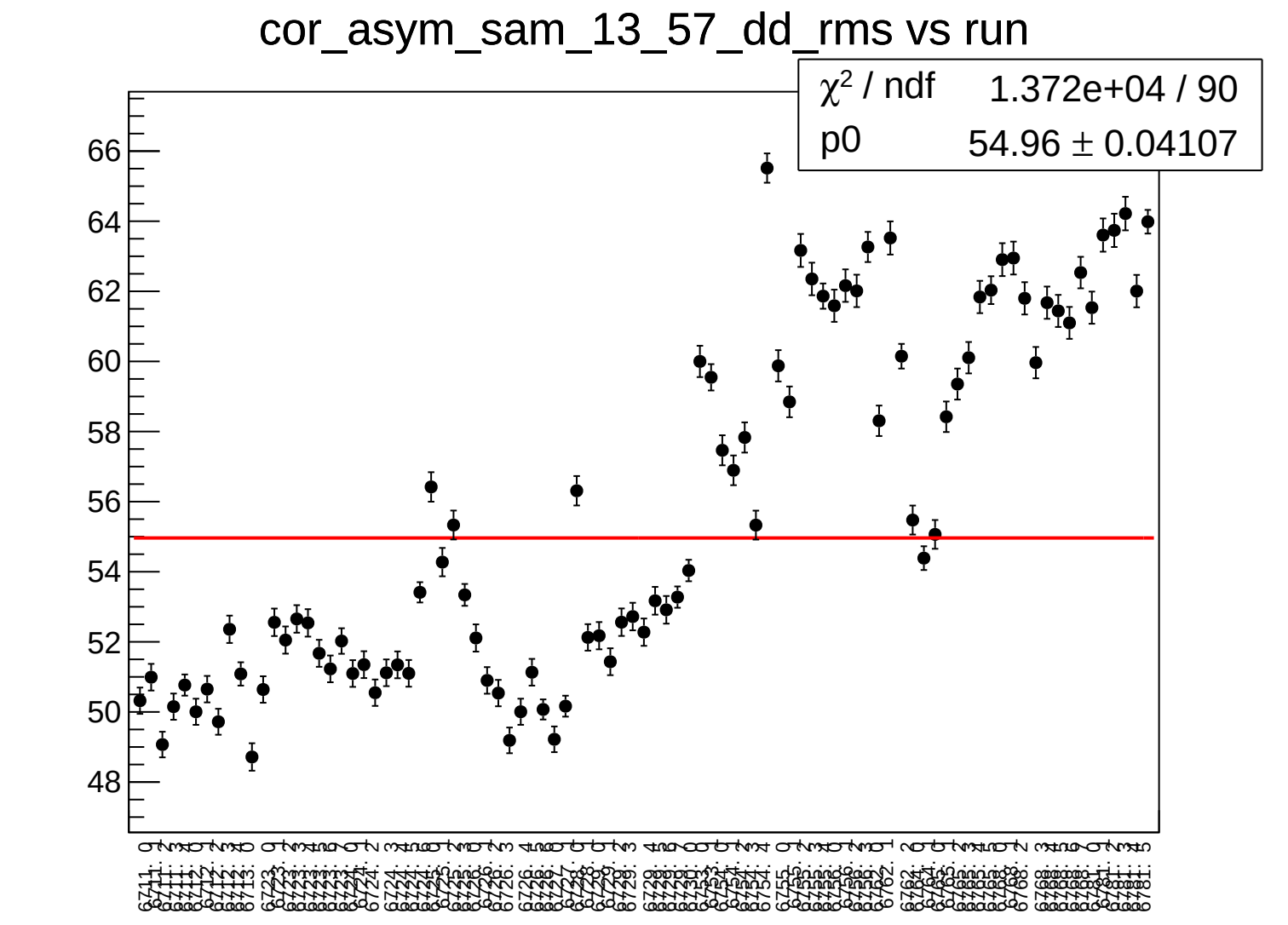

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 94.34 / 90
p0 607.8 ± 402.7
pull
Entries 91
Mean 661.6
Std Dev 0

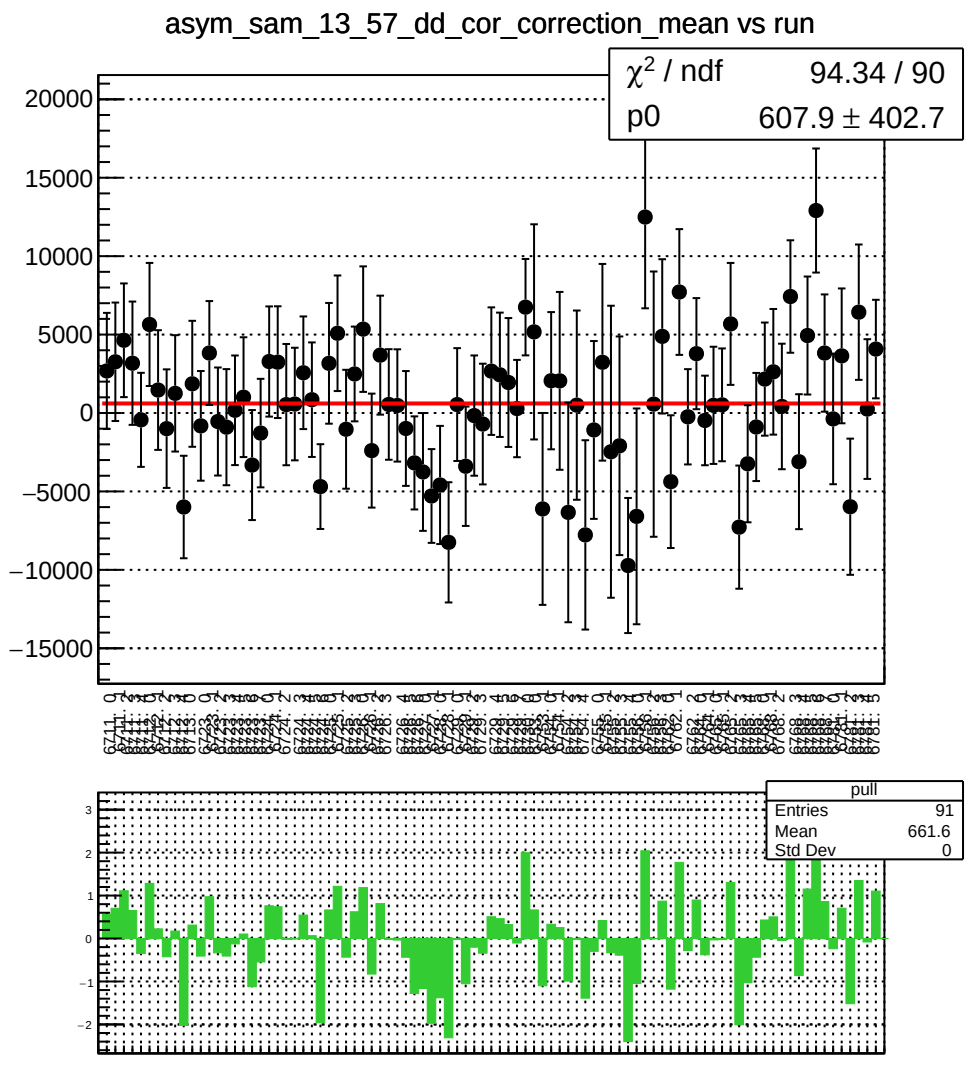

pull1D
Entries 91
Mean 0.003385
Std Dev 1.018

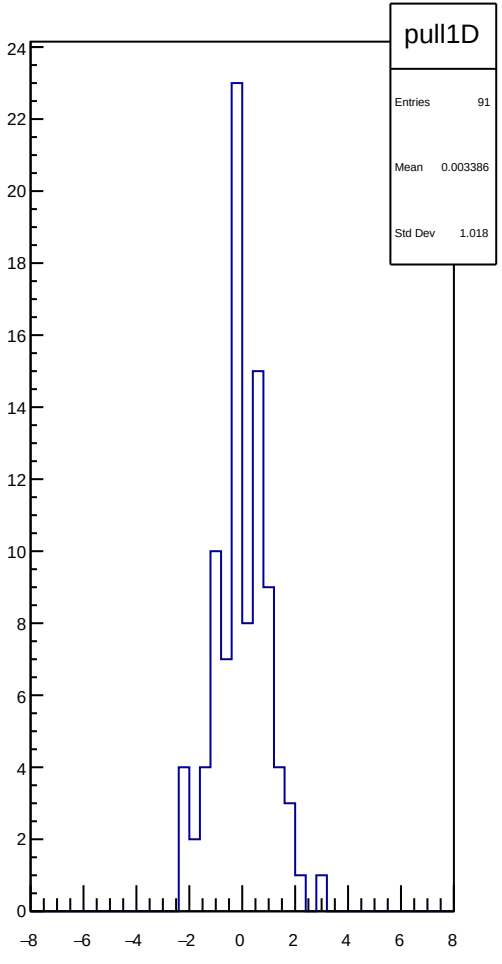

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 5.63e+04 / 90
p0 376.4 ± 0.2847
900
800
700
600
500
400
300

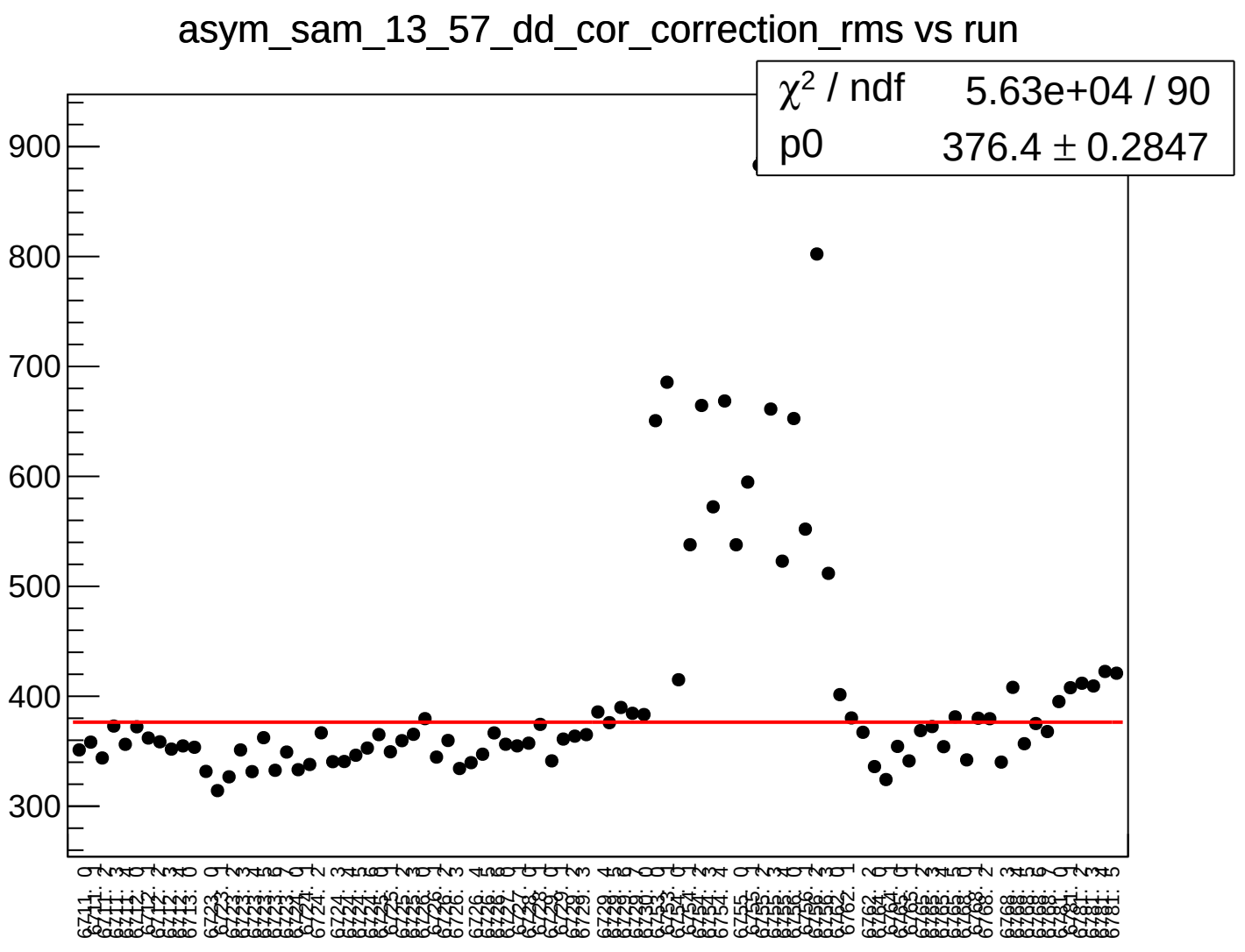

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 101.5 / 90
p0 200.9 ± 58.09
pull
Entries 91
Mean −4.496
Std Dev 46.75

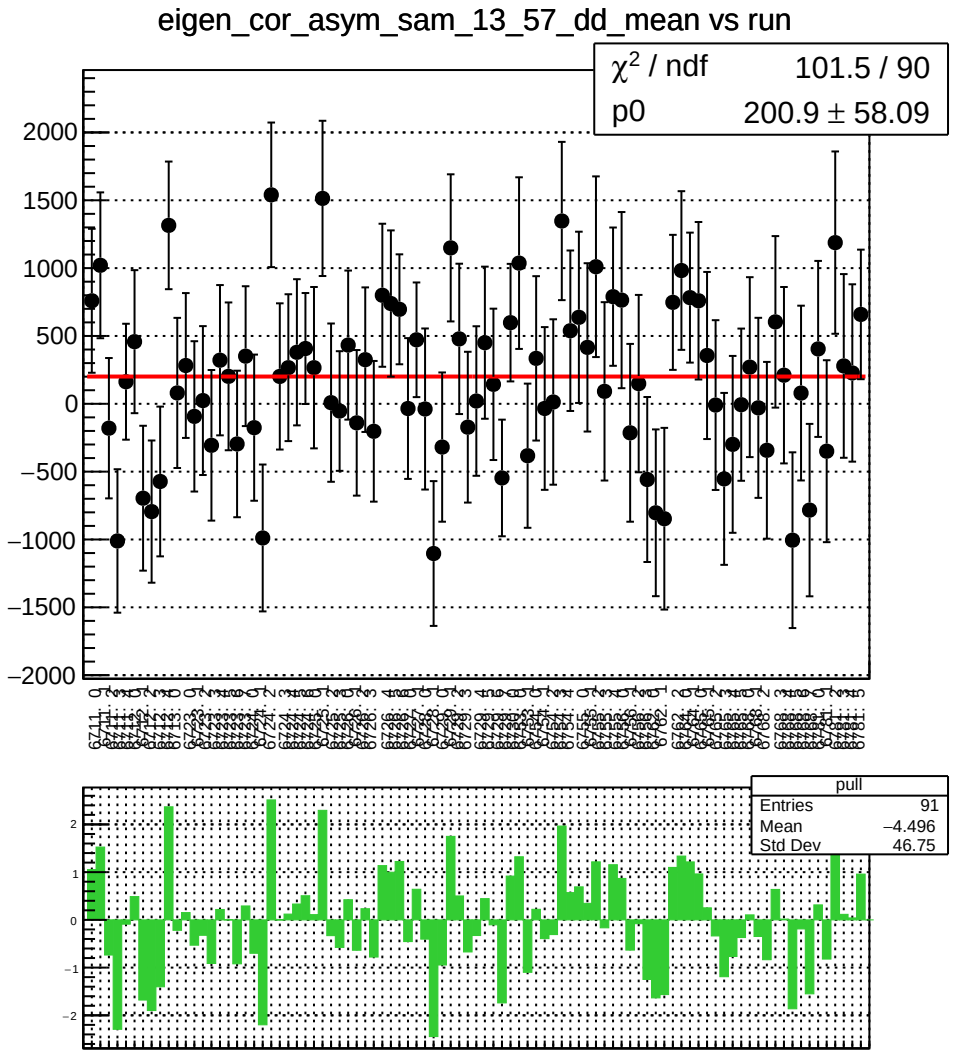

pull1D
Entries 91
Mean −0.01744
Std Dev 1.056

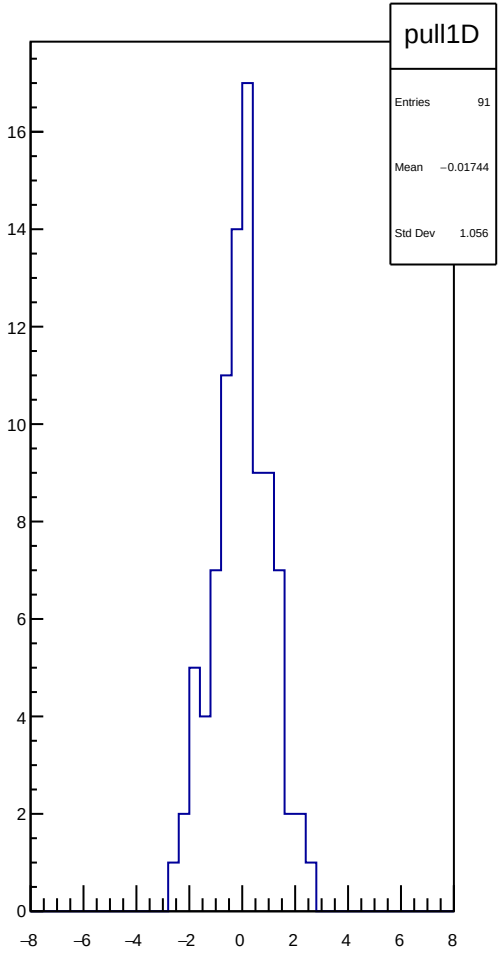

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.372e+04 / 90
p0 54.96 ± 0.04107
66
64
62
60
58
56
54
52
50
48

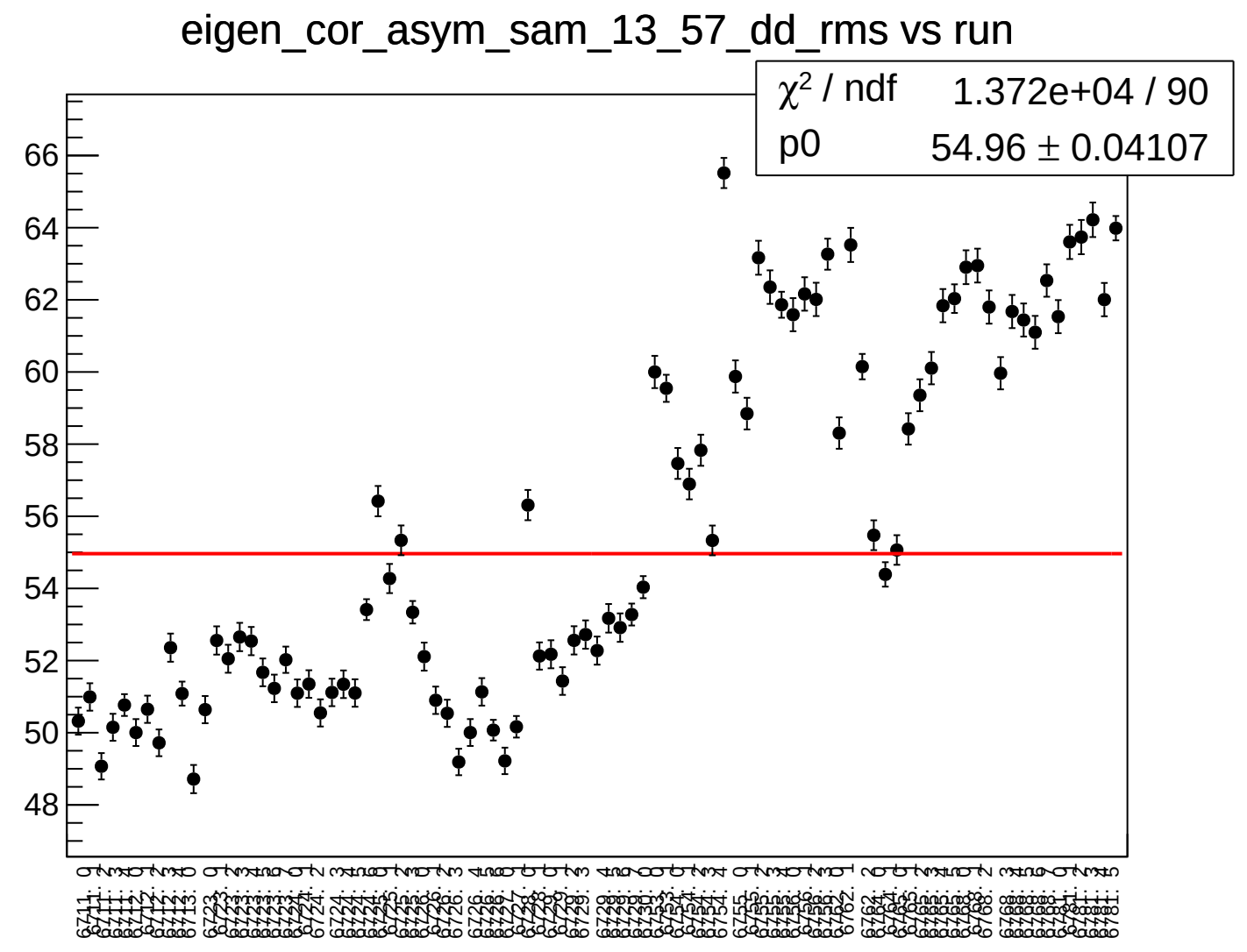

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 94.34 / 90
p0 607.9 ± 402.7
pull
Entries 91
Mean 661.6
Std Dev 0

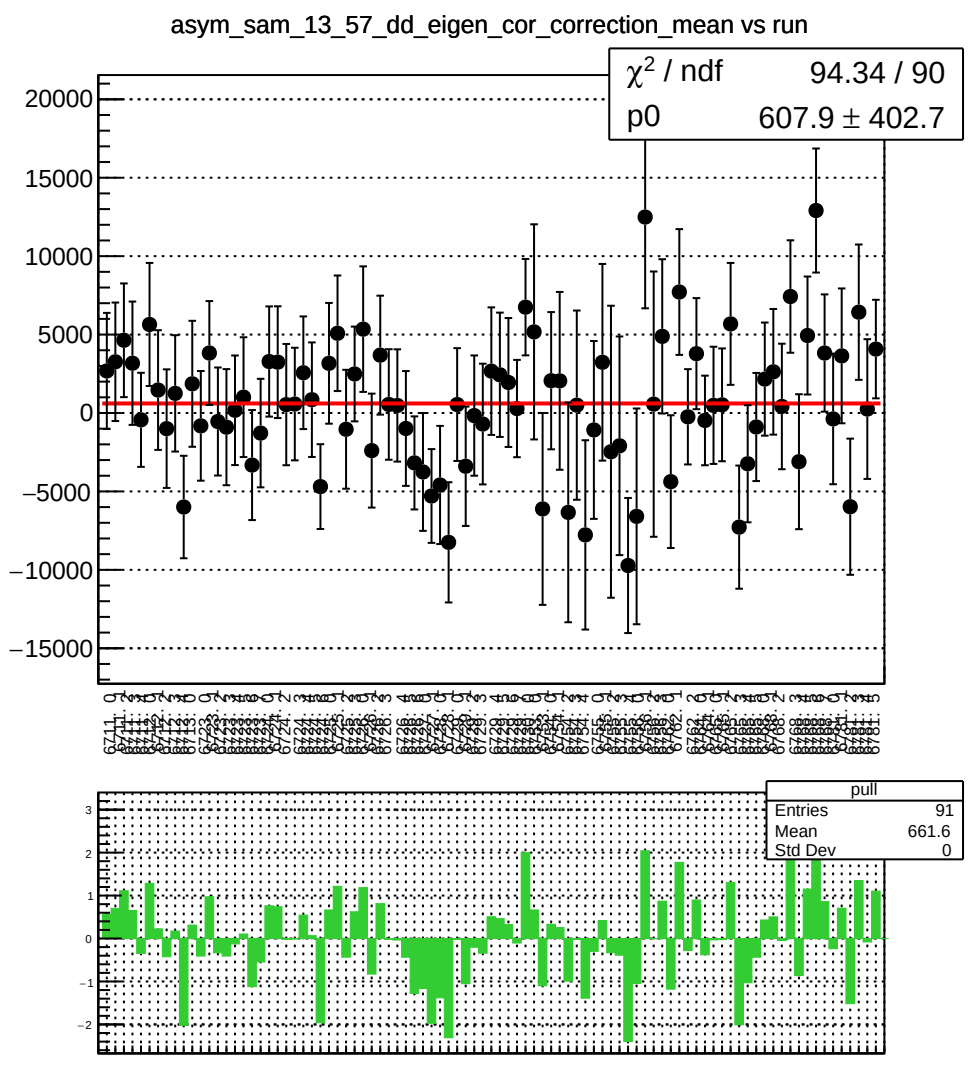

pull1D
Entries 91
Mean 0.003386
Std Dev 1.018

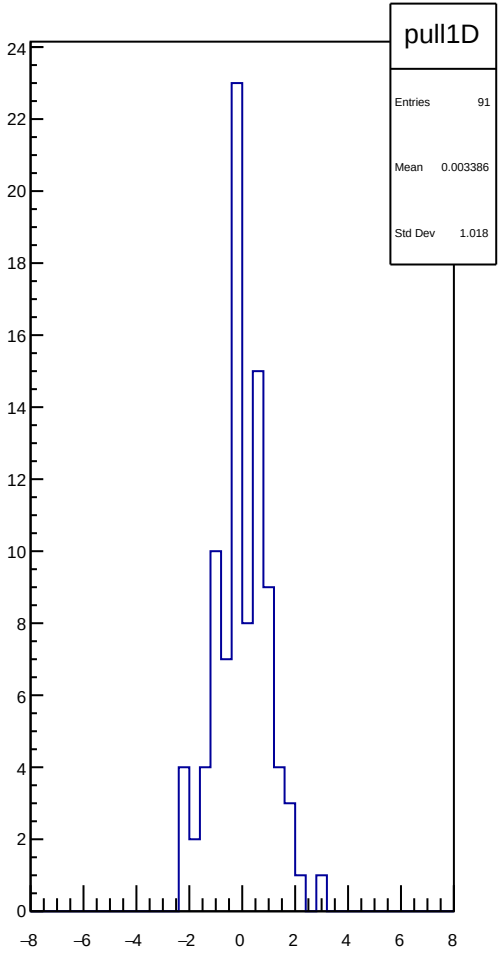

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 5.63e+04 / 90
p0 376.4 ± 0.2847
900
800
700
600
500
400
300

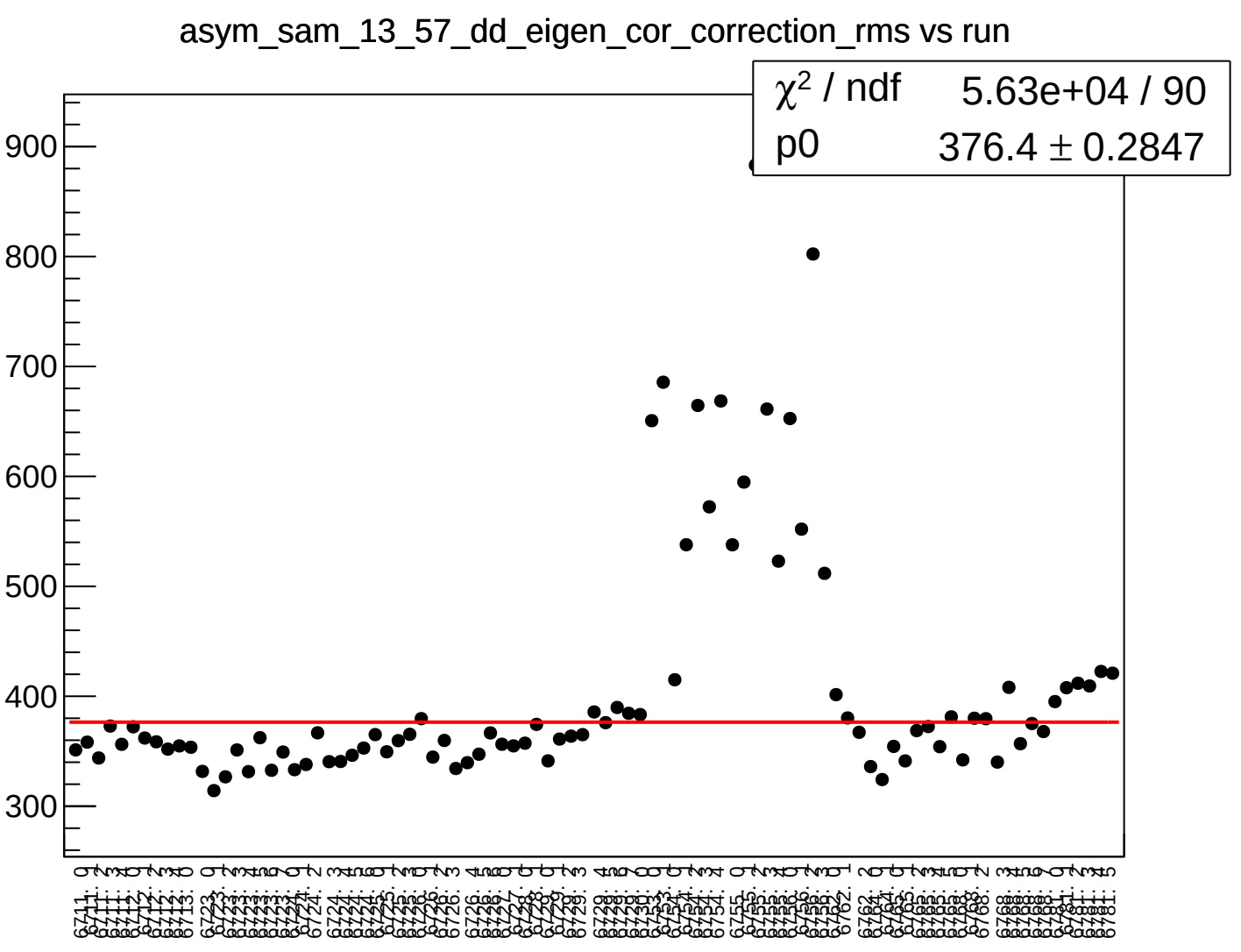

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 101.5 / 90
p0 200.9 ± 58.09
pull
Entries 91
Mean −4.496
Std Dev 46.75

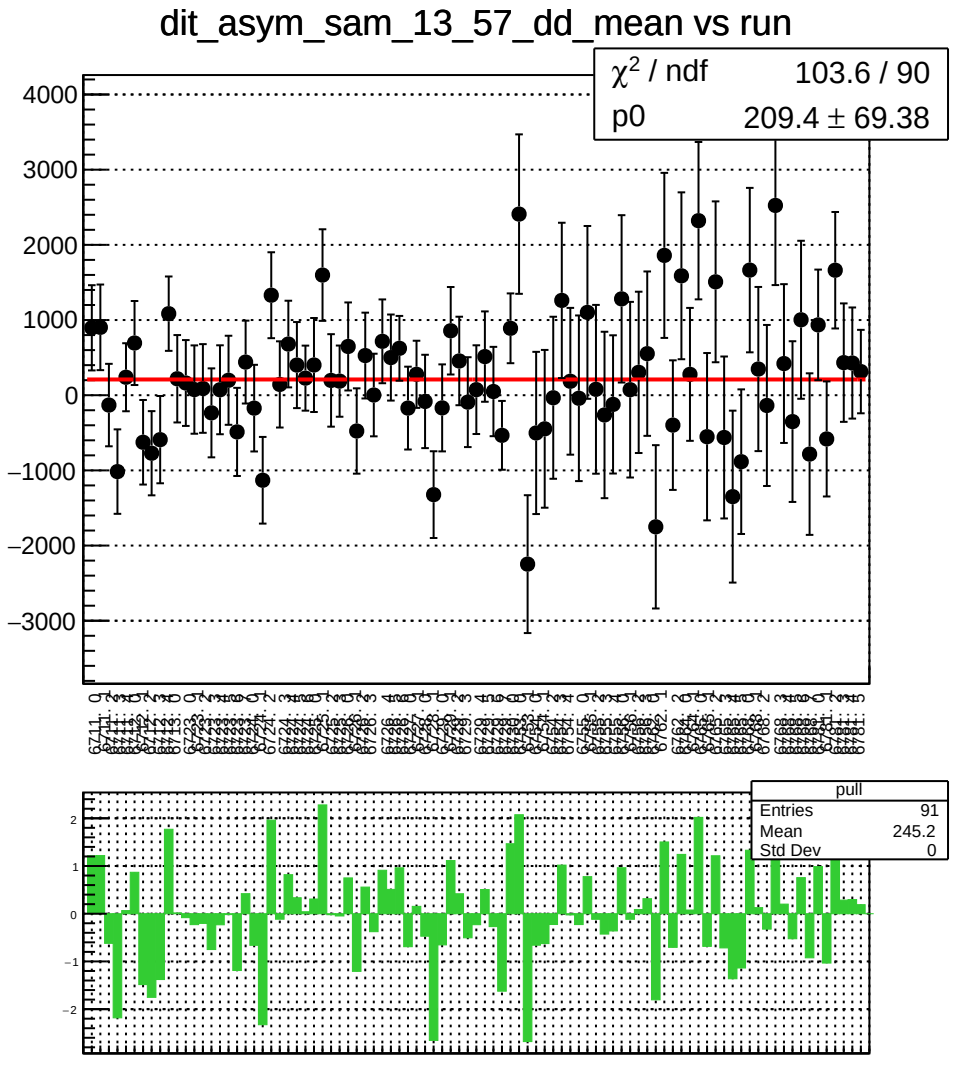

pull1D
Entries 91
Mean −0.01744
Std Dev 1.056

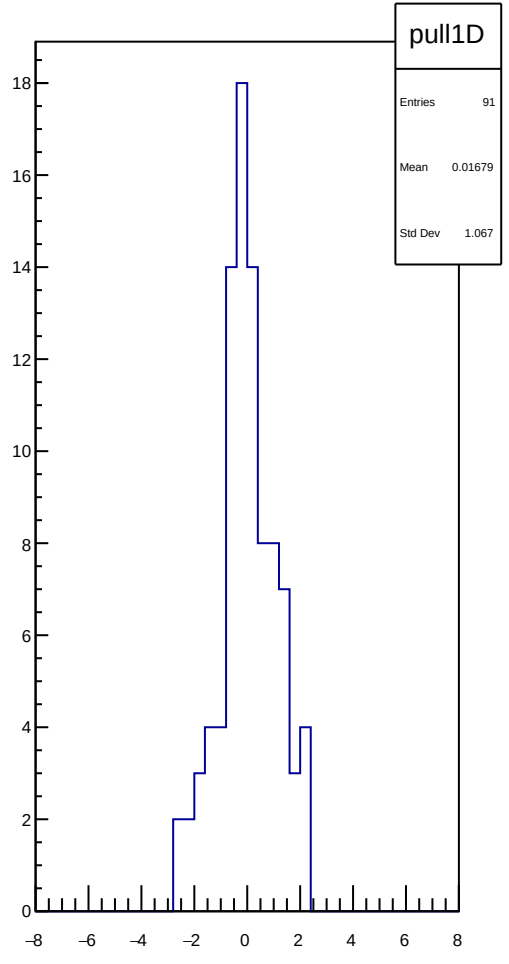

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.372e+04 / 90
p0 54.96 ± 0.04107
66
64
62
60
58
56
54
52
50
48

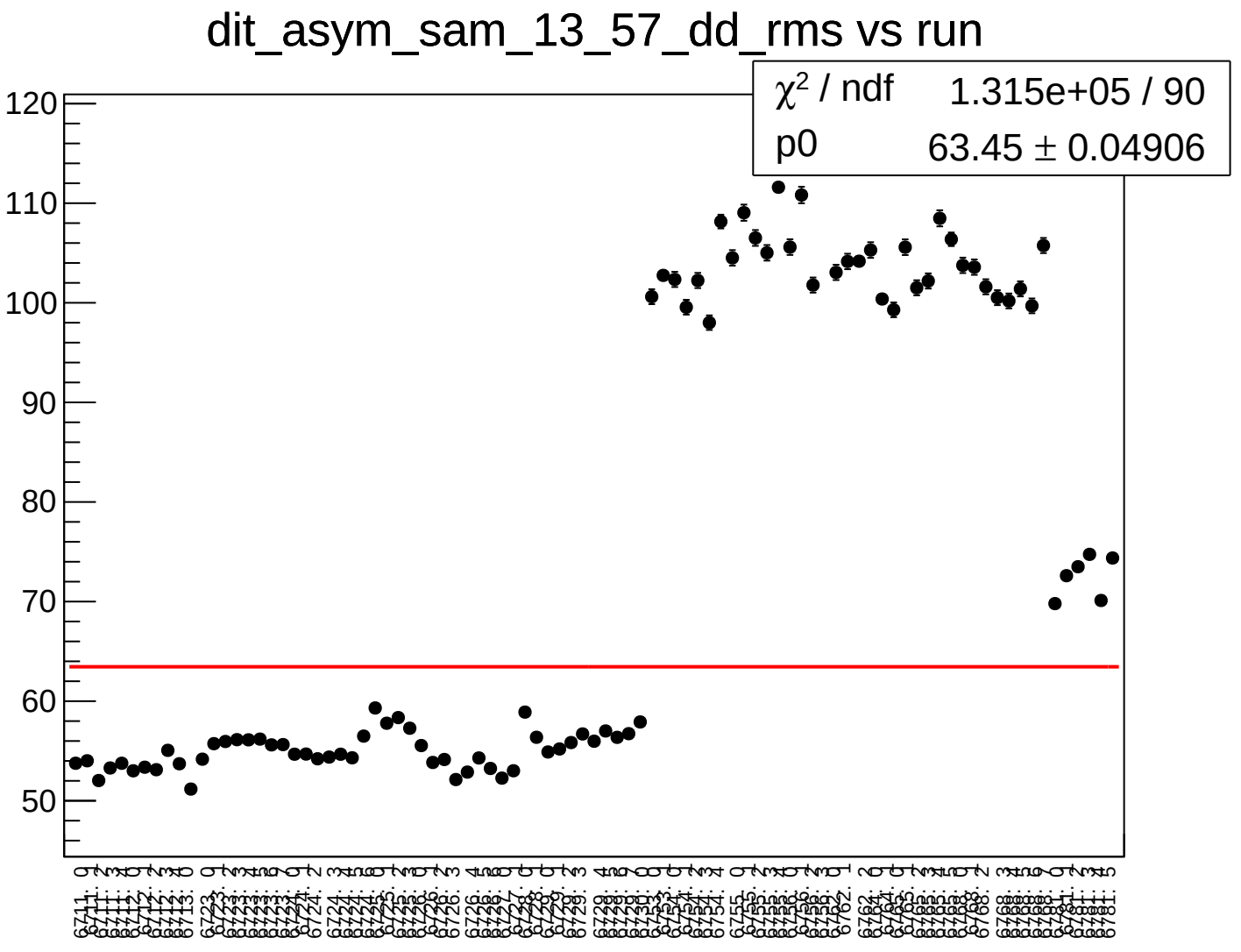

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.34 / 90
p0 607.9 ± 402.7
pull
Entries 91
Mean 661.6
Std Dev 0

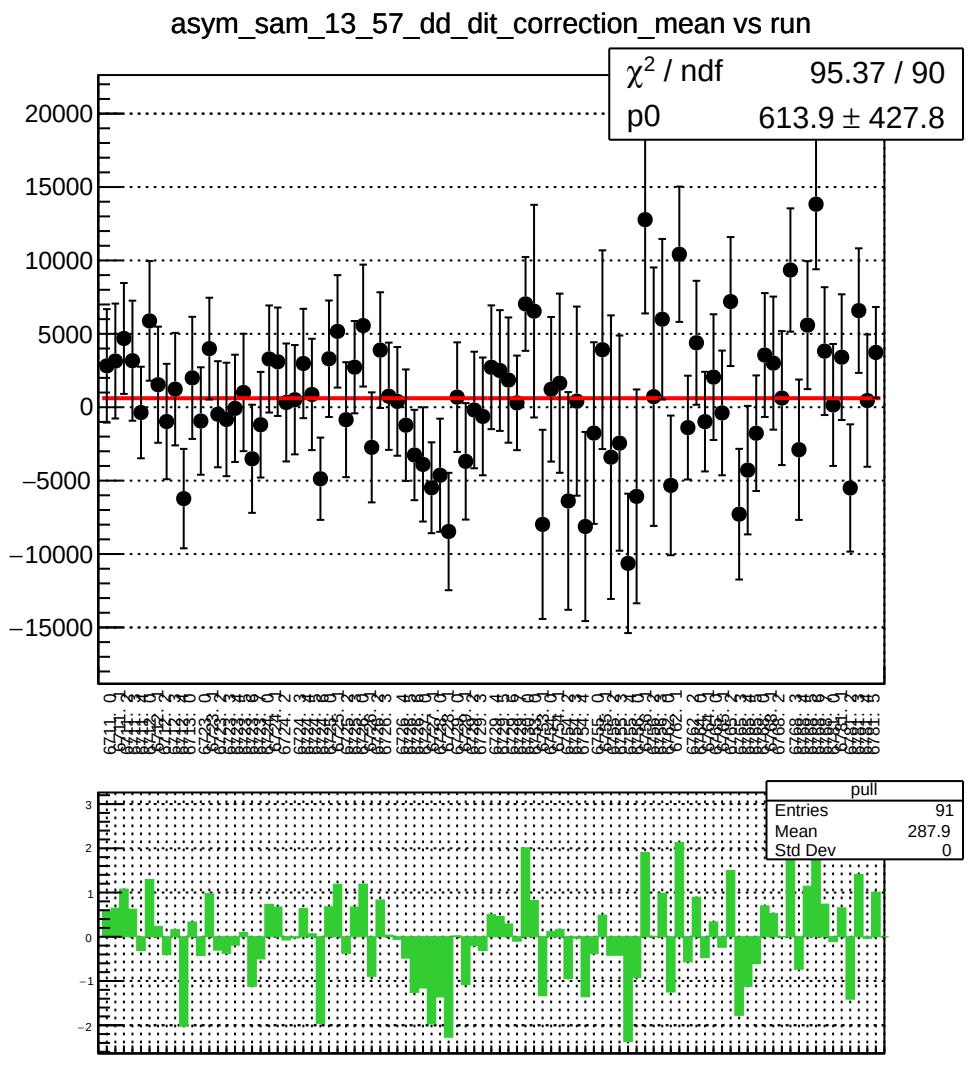

pull1D
Entries 91
Mean 0.003386
Std Dev 1.018

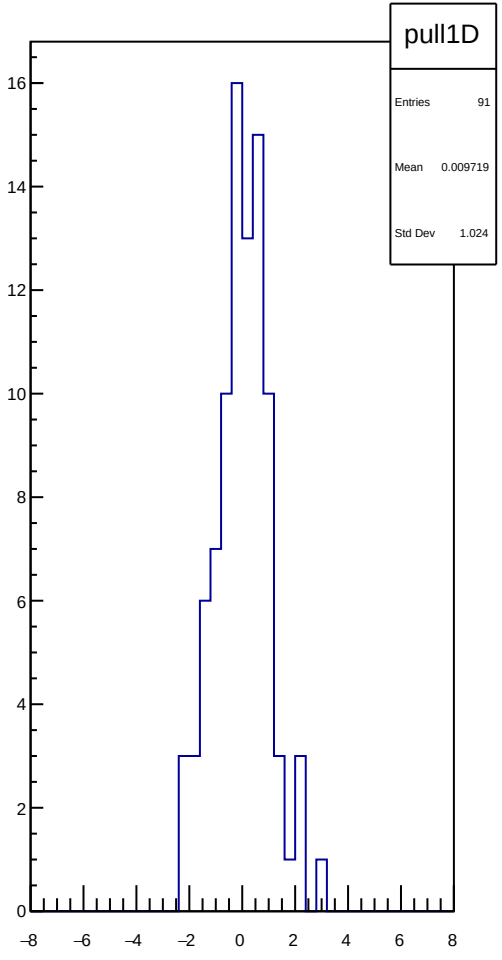

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 5.63e+04 / 90
p0 376.4 ± 0.2847
900
800
700
600
500
400
300

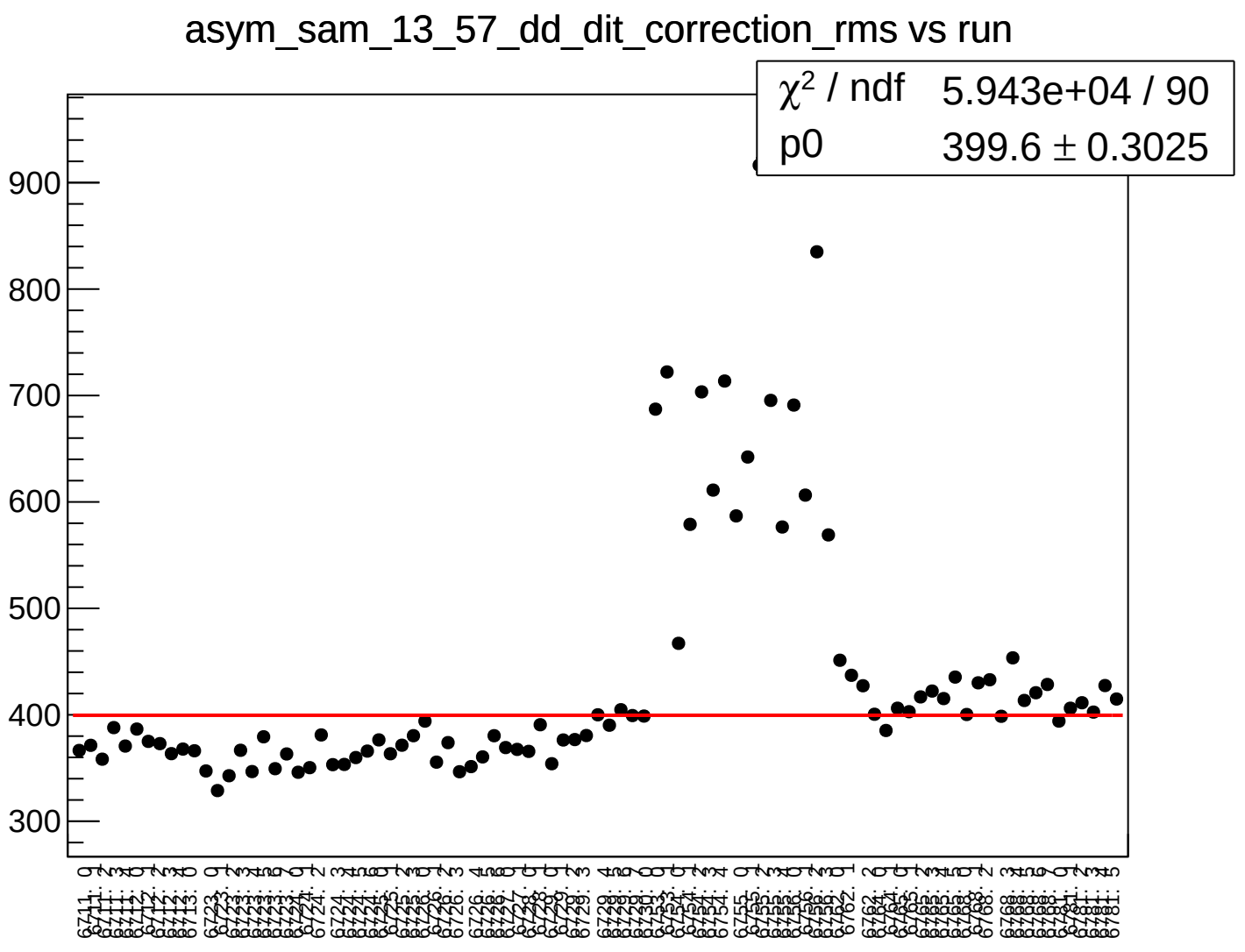

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 103.6 / 90
p0 209.4 ± 69.38
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 245.2
Std Dev 0
2
1
0
−1
−2

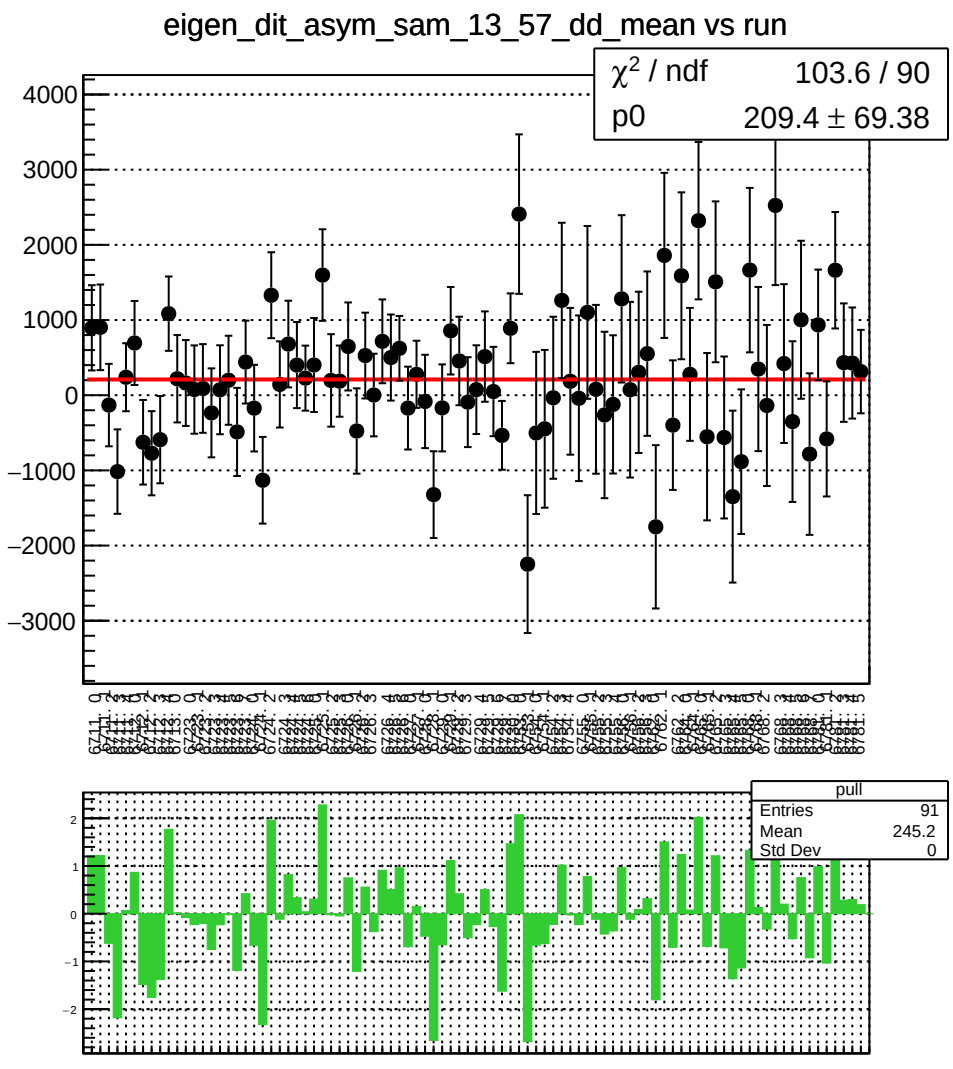

pull1D
Entries 91
Mean 0.01679
Std Dev 1.067
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

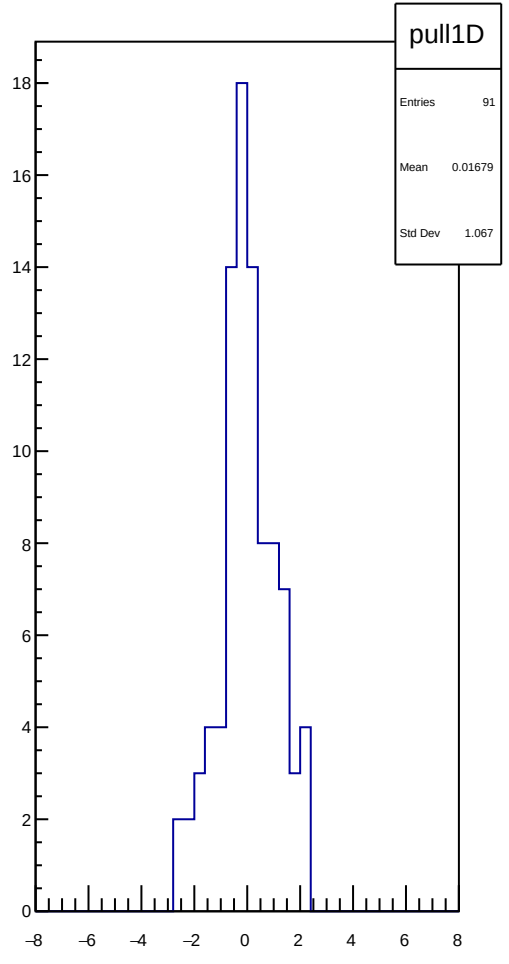

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.315e+05 / 90
p0 63.45 ± 0.04906
120
110
100
90
80
70
60
50

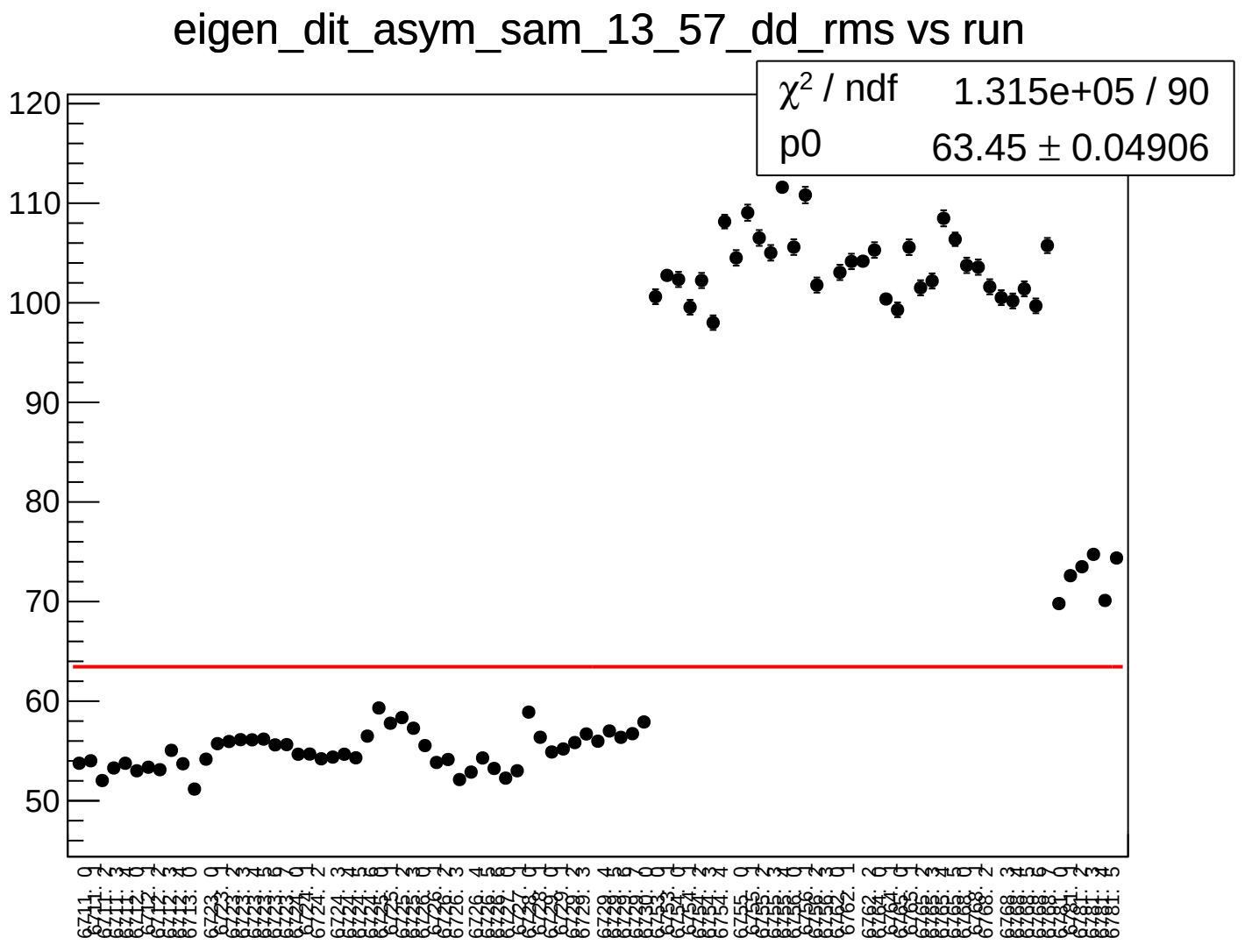

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 95.37 / 90
p0 613.9 ± 427.8
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 287.9
Std Dev 0
3
2
1
0
−1
−2

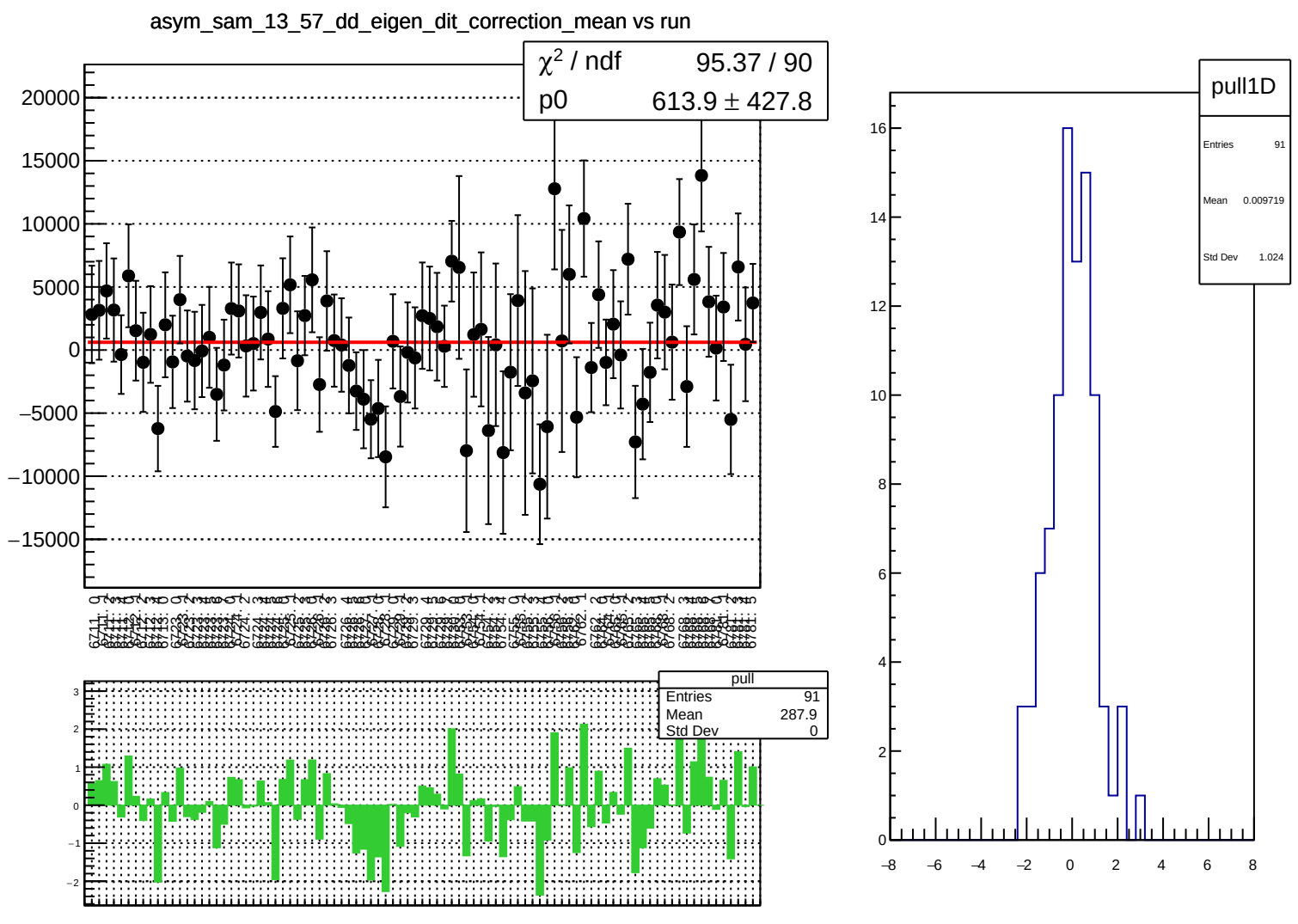

pull1D
Entries 91
Mean 0.009719
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

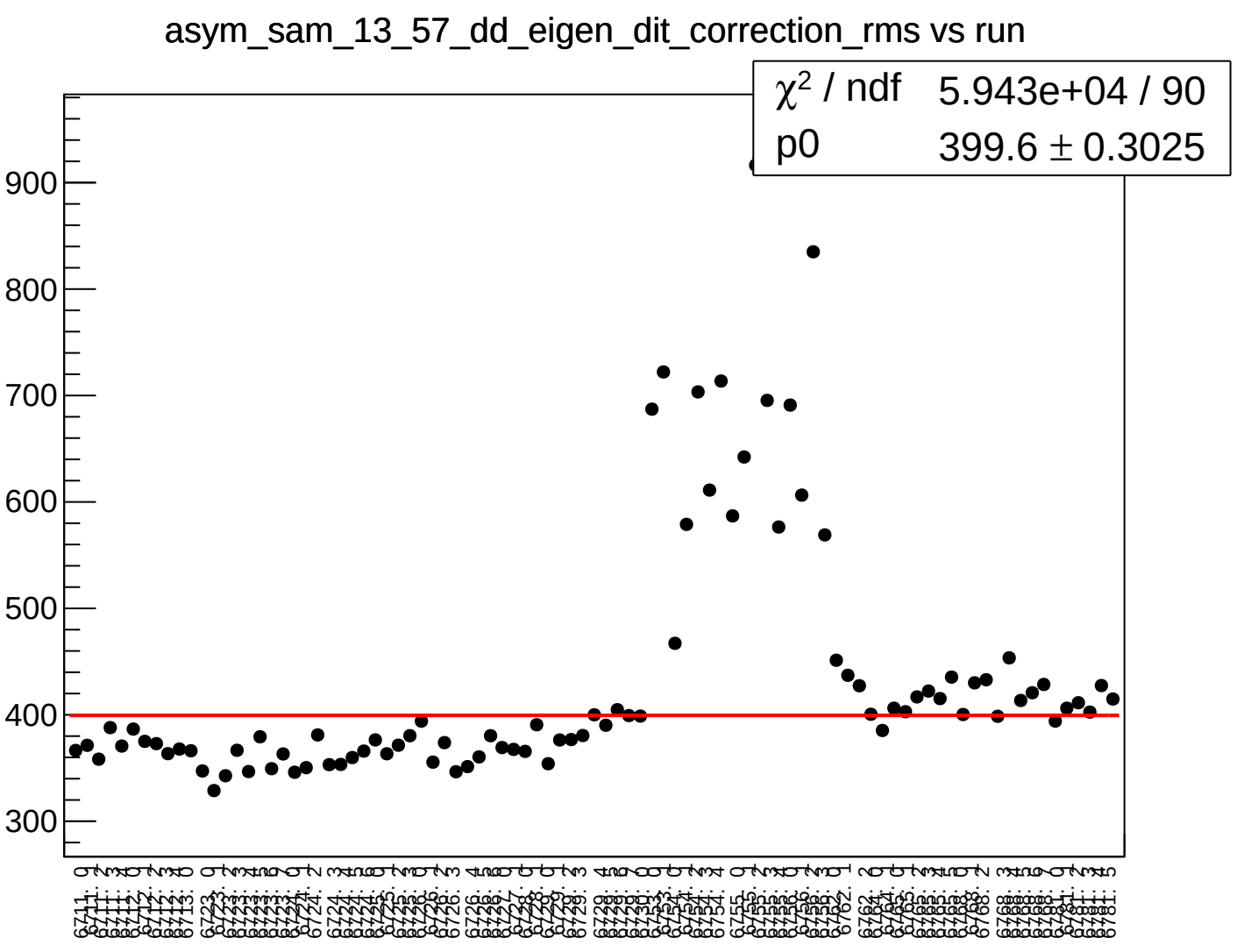

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 5.943e+04 / 90
p0 399.6 ± 0.3025
900
800
700
600
500
400
300

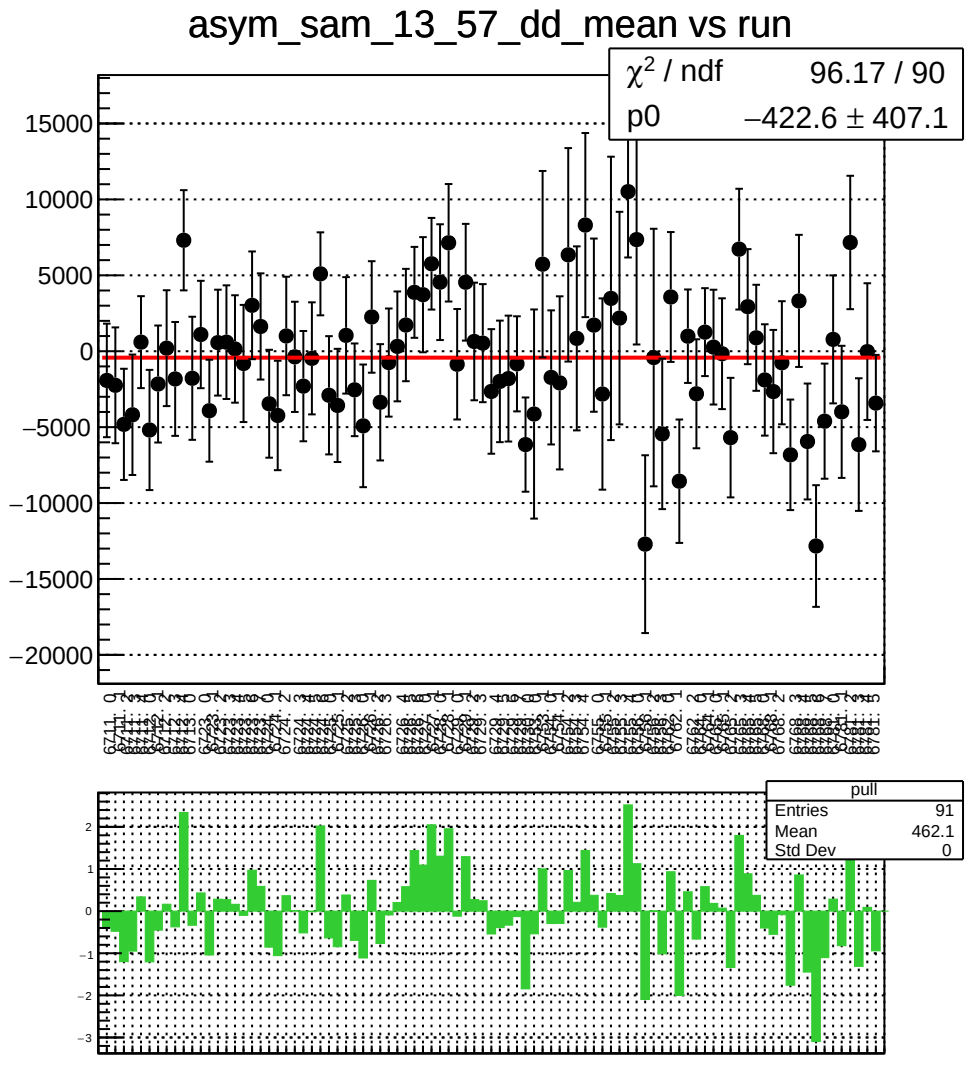

eigen_dit_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 103.6 / 90
p0 209.4 ± 69.38
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 245.2
Std Dev 0
2
1
0
−1
−2

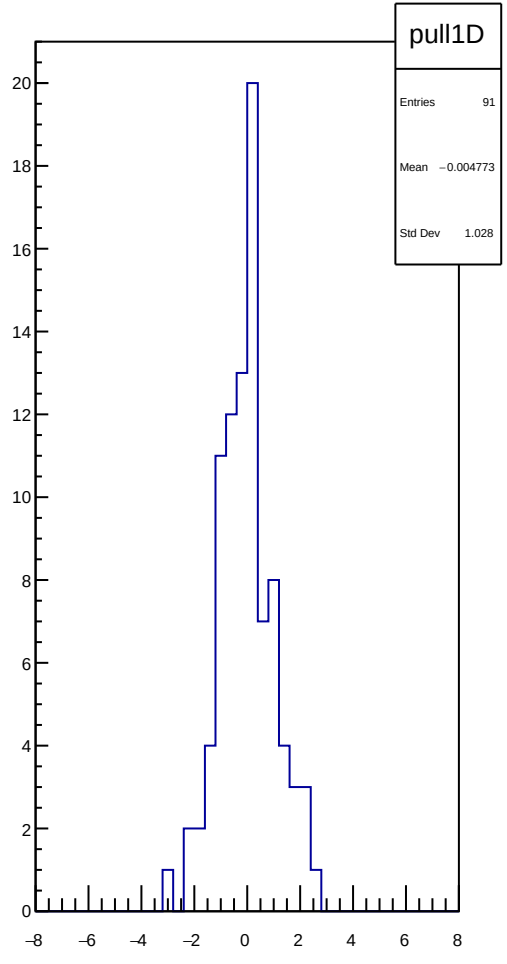

pull1D
Entries 91
Mean 0.01679
Std Dev 1.067
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

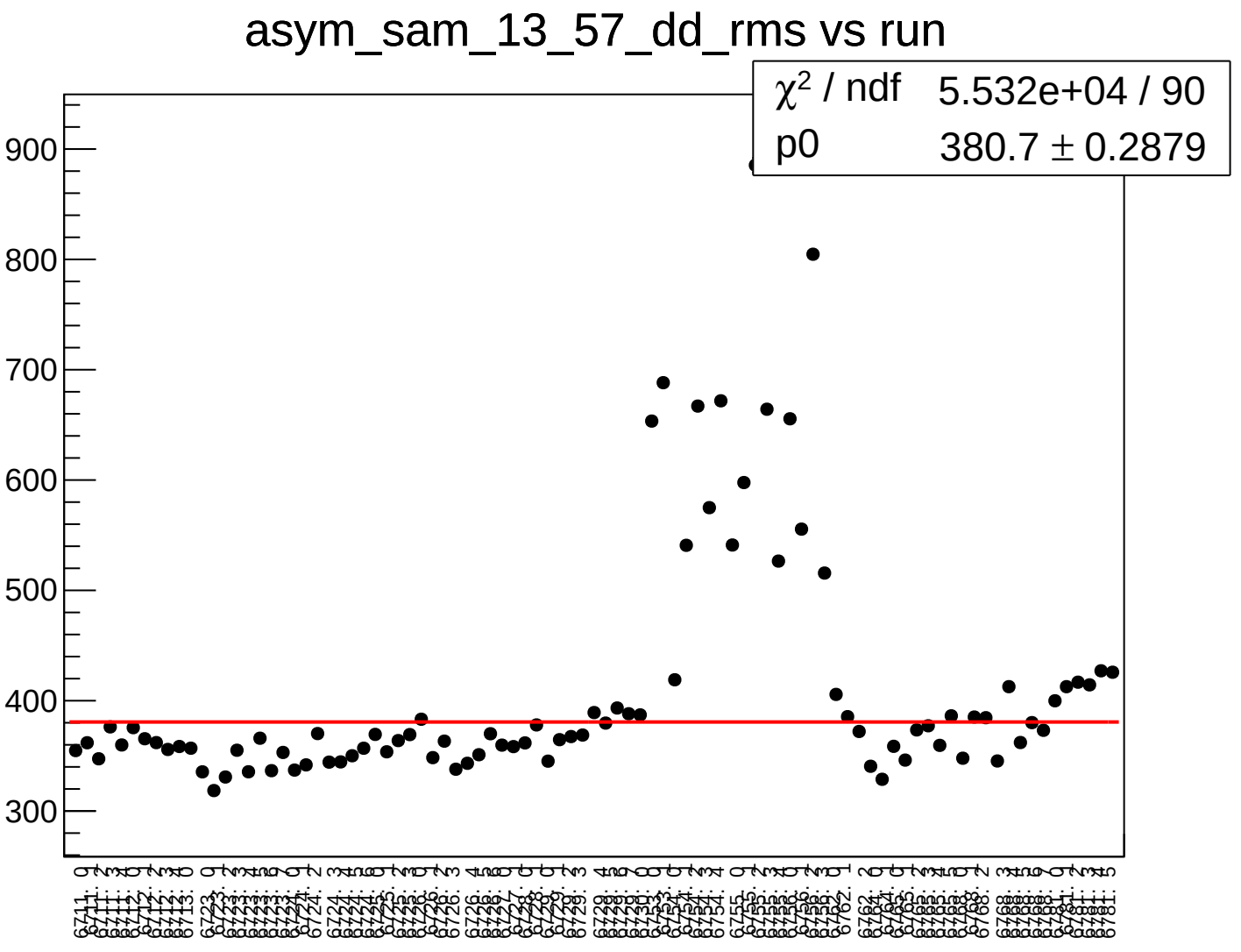

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.315e+05 / 90
p0 63.45 ± 0.04906
120
110
100
90
80
70
60
50

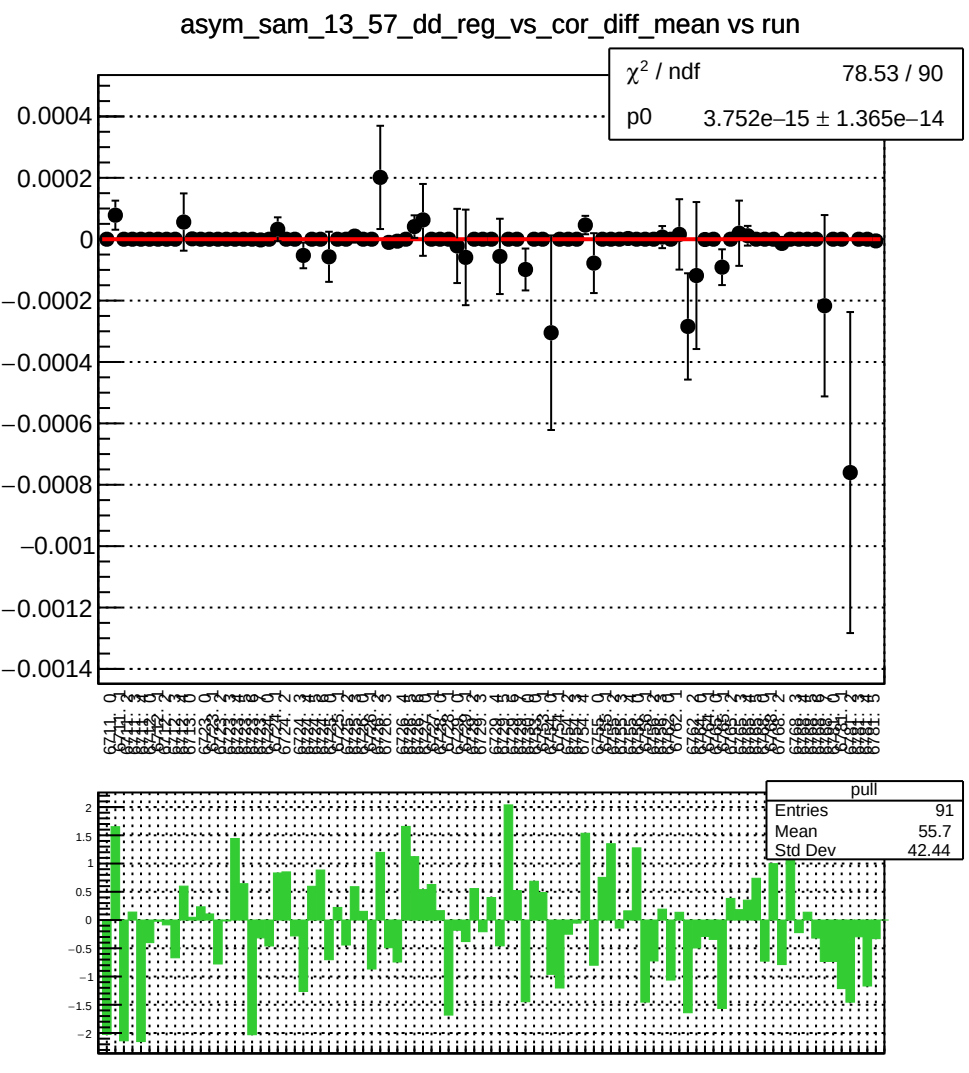

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 95.37 / 90
p0 613.9 ± 427.8
pull
Entries 91
Mean 287.9
Std Dev 0
pull1D
Entries 91
Mean 0.009719
Std Dev 1.024

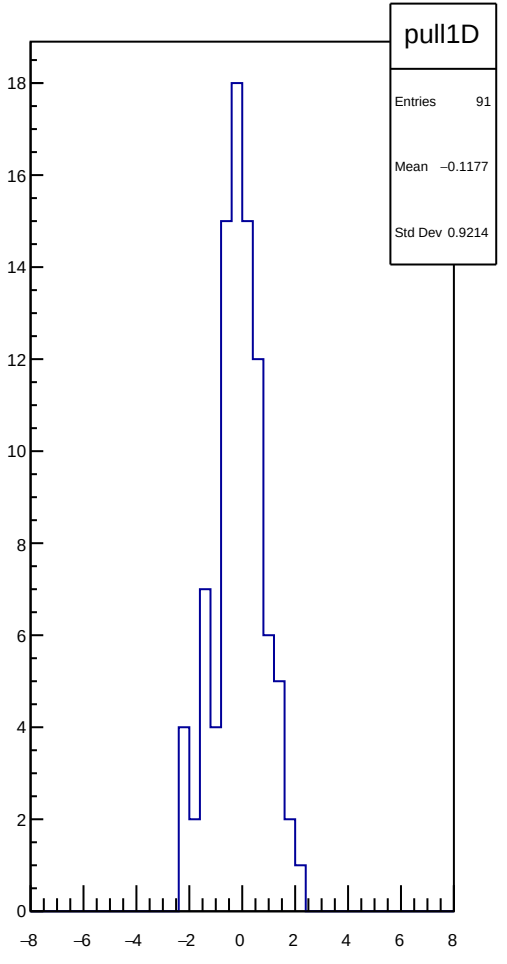

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.943e+04 / 90
p0 399.6 ± 0.3025
900
800
700
600
500
400
300

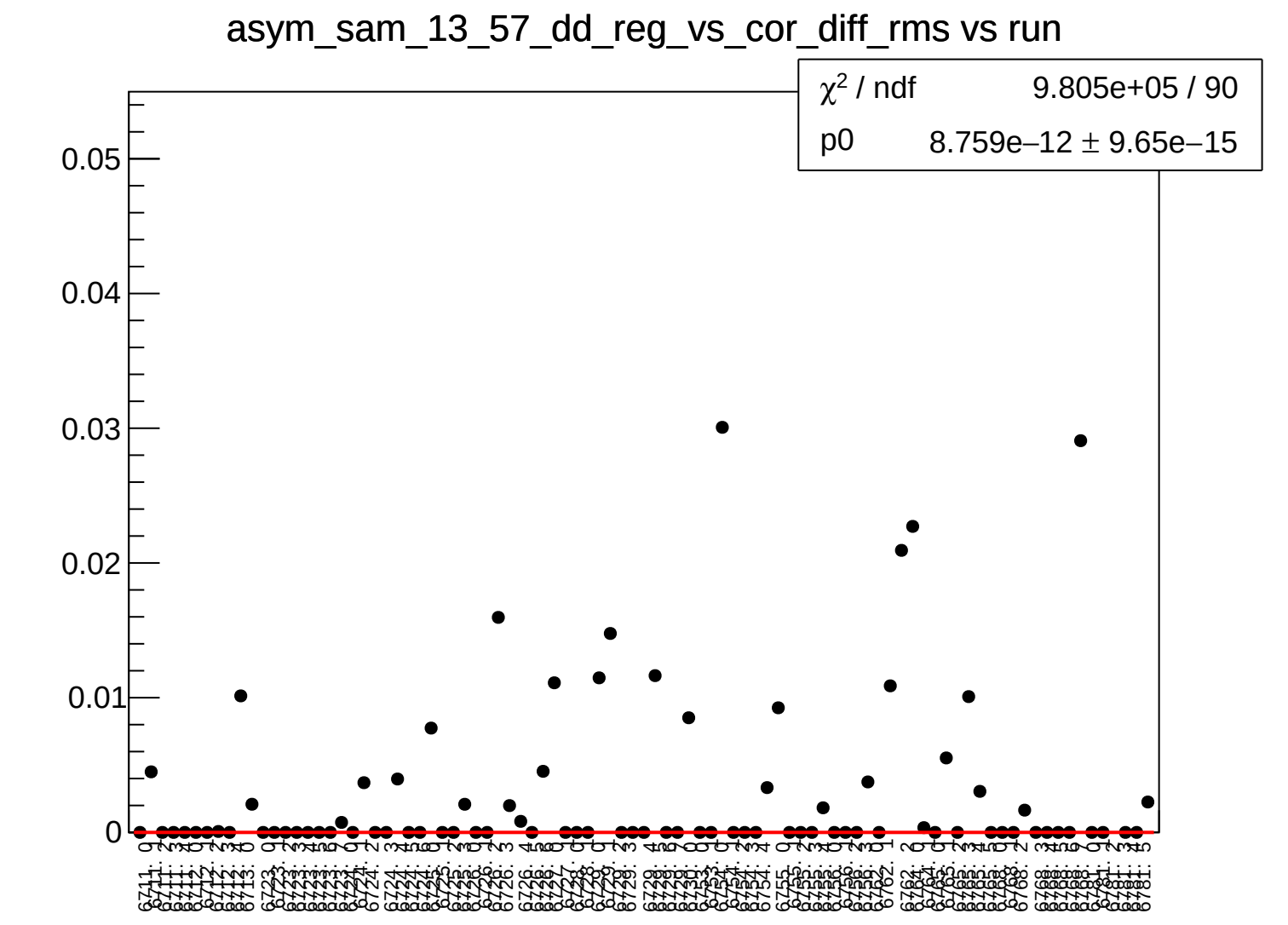

asym_sam_13_57_dd_mean vs run
χ² / ndf 96.17 / 90
p0 −422.6 ± 407.1
pull
Entries 91
Mean 462.1
Std Dev 0

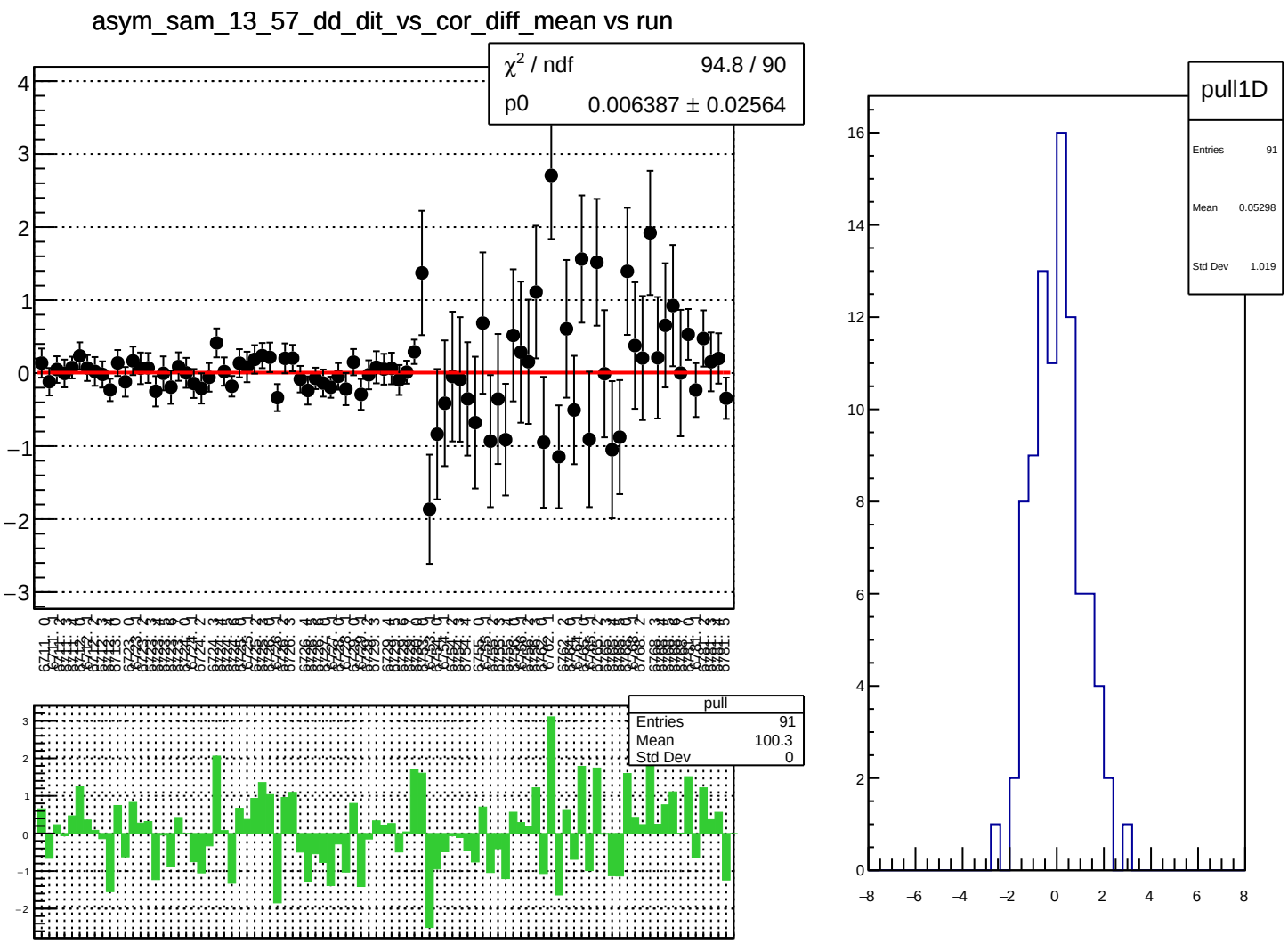

pull1D
Entries 91
Mean −0.004773
Std Dev 1.028

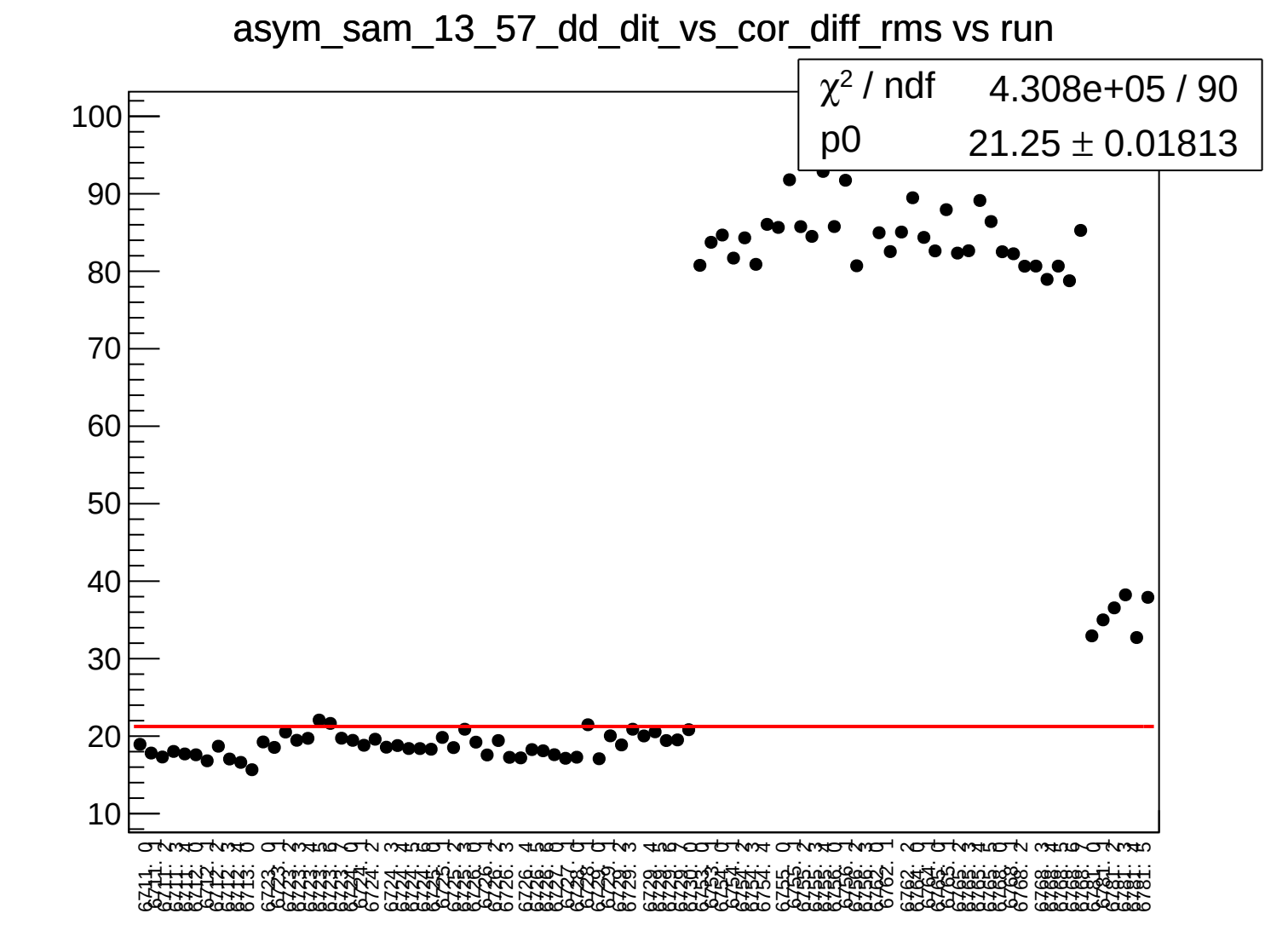

asym_sam_13_57_dd_rms vs run
χ² / ndf 5.532e+04 / 90
p0 380.7 ± 0.2879
900
800
700
600
500
400
300

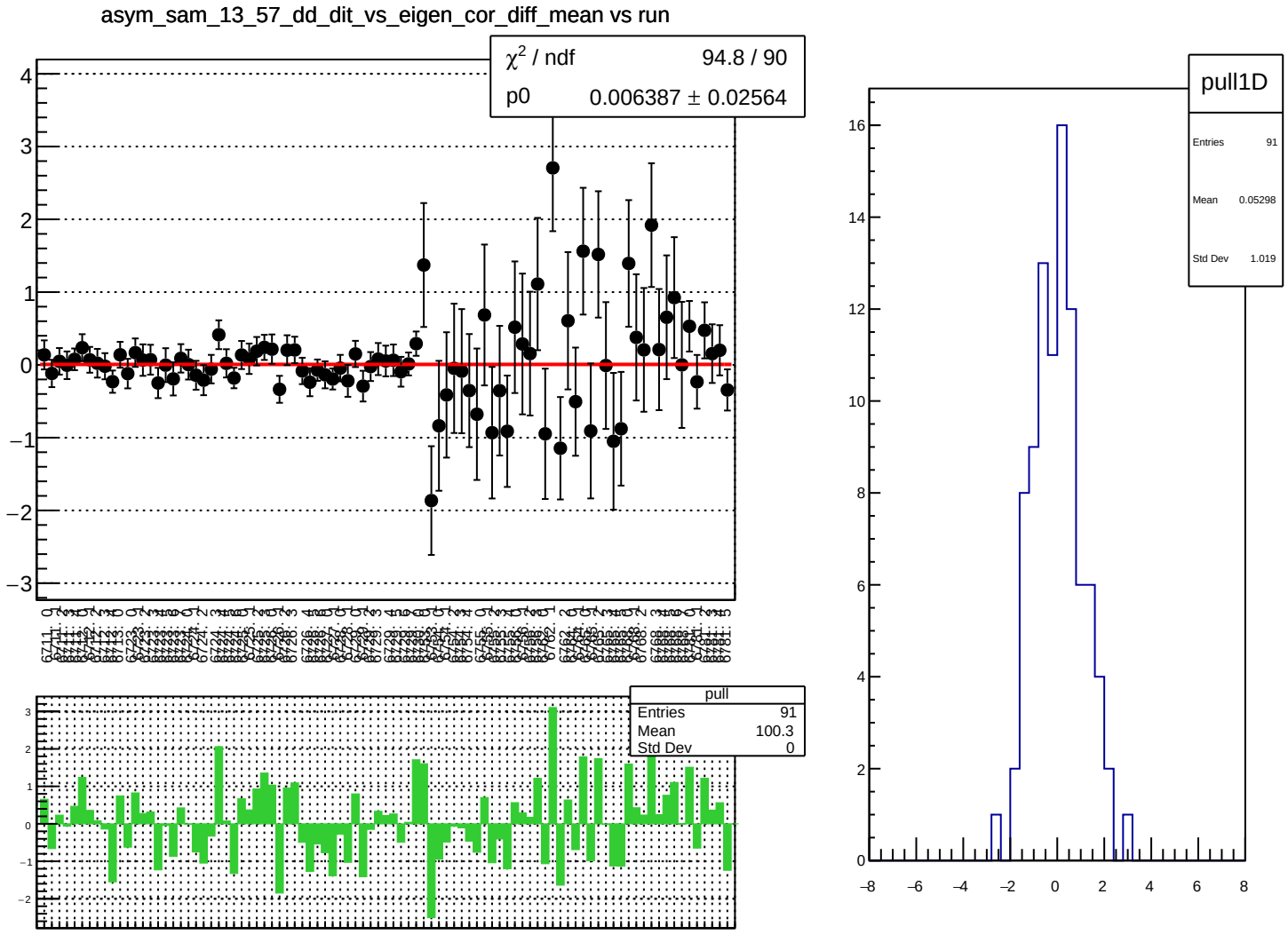

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.53 / 90
p0 3.752e−15 ± 1.365e−14
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
pull
Entries 91
Mean 55.7
Std Dev 42.44
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

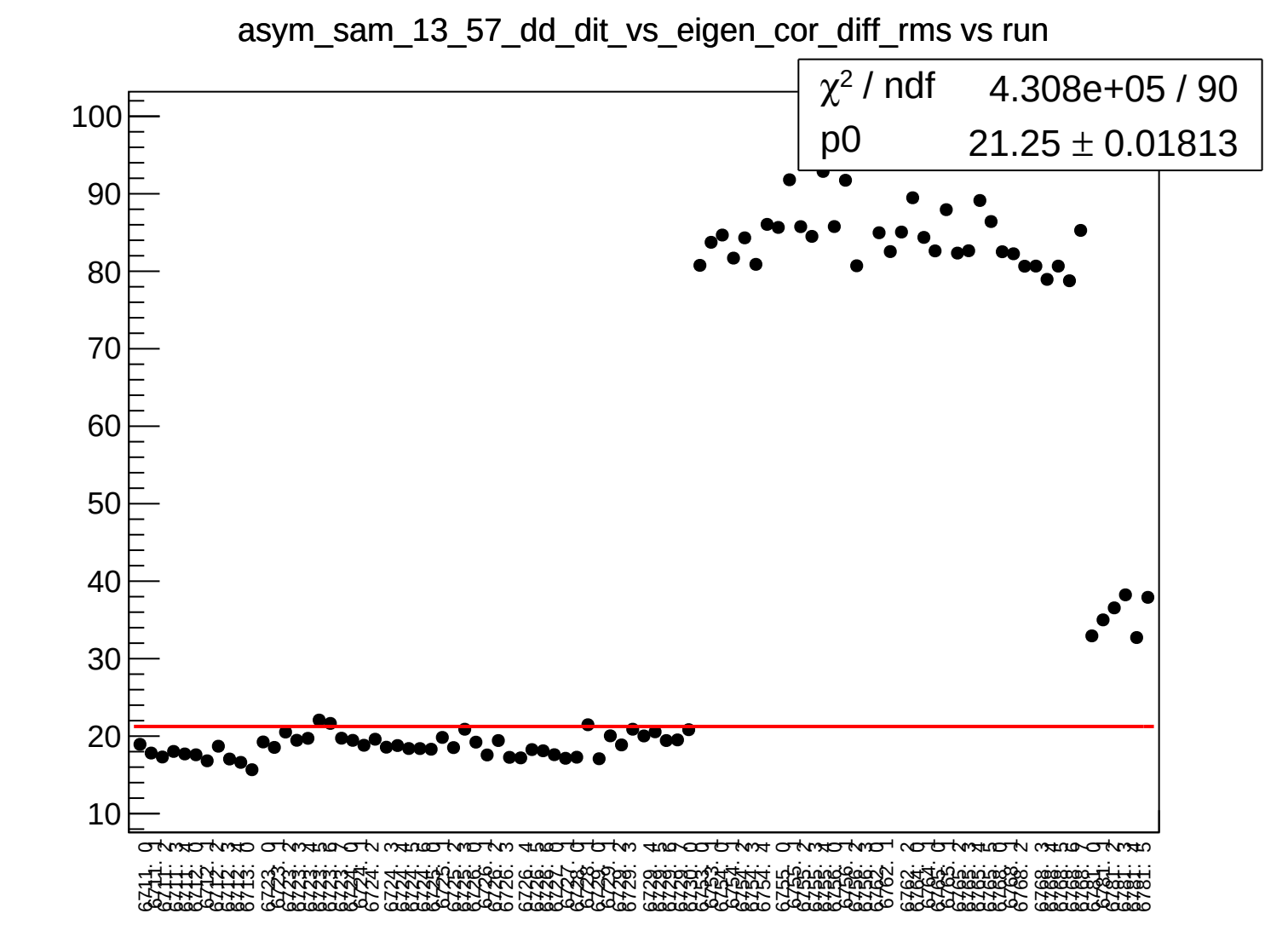

pull1D
Entries 91
Mean −0.1177
Std Dev 0.9214
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

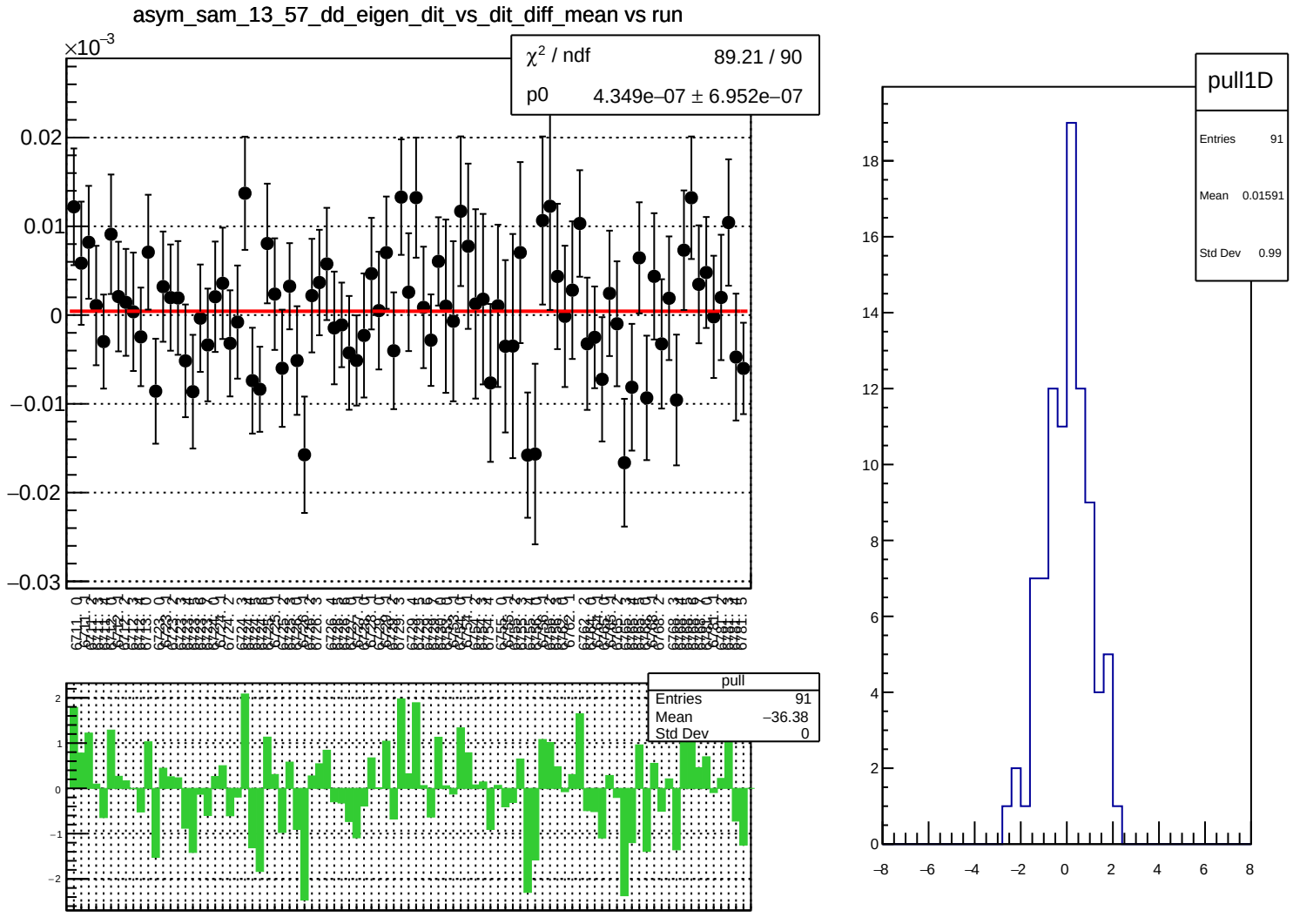

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.805e+05 / 90
p0 8.759e−12 ± 9.65e−15
0.05
0.04
0.03
0.02
0.01
0

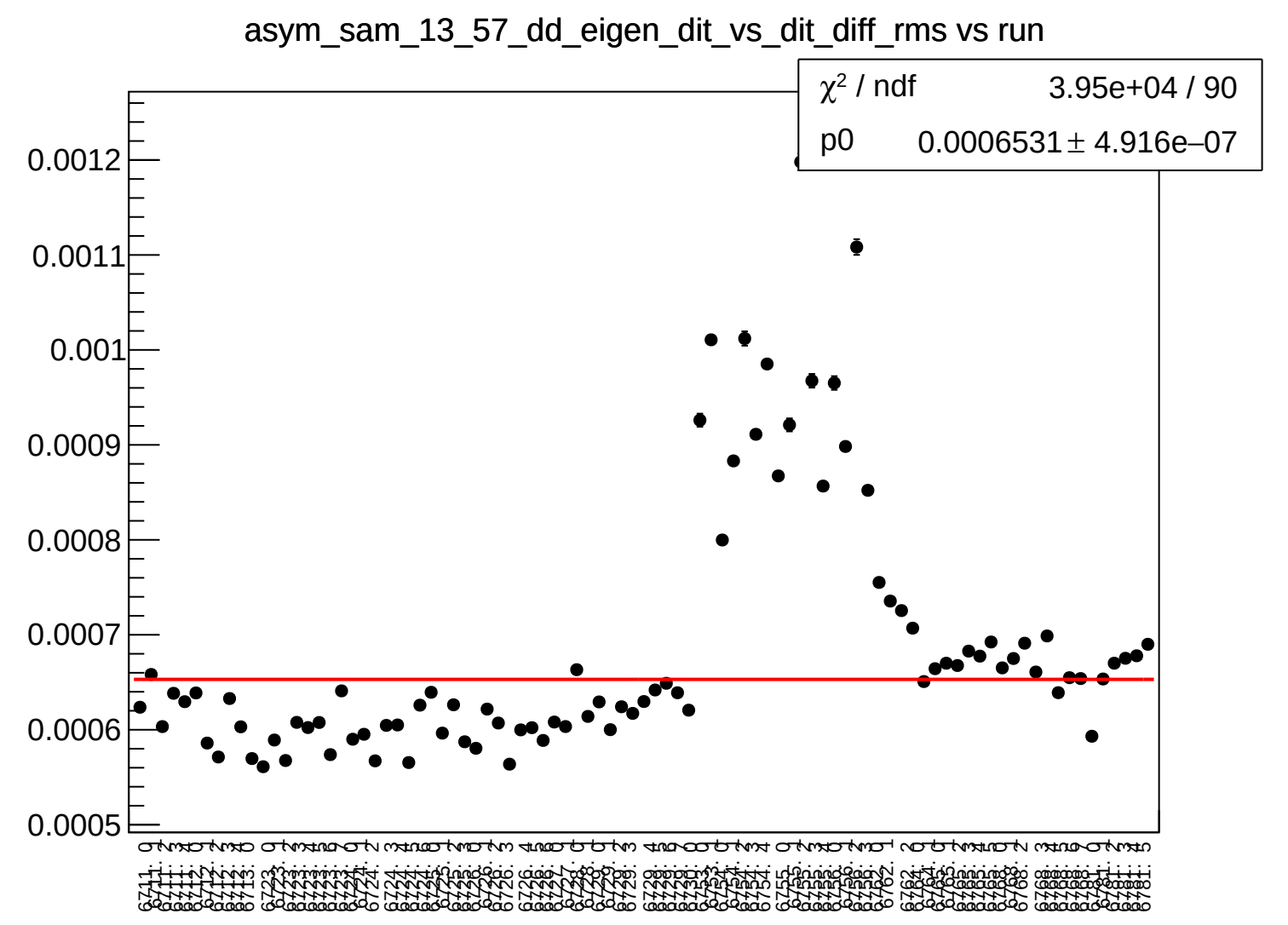

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.8 / 90
p0 0.006387 ± 0.02564
pull
Entries 91
Mean 100.3
Std Dev 0
pull1D
Entries 91
Mean 0.05298
Std Dev 1.019

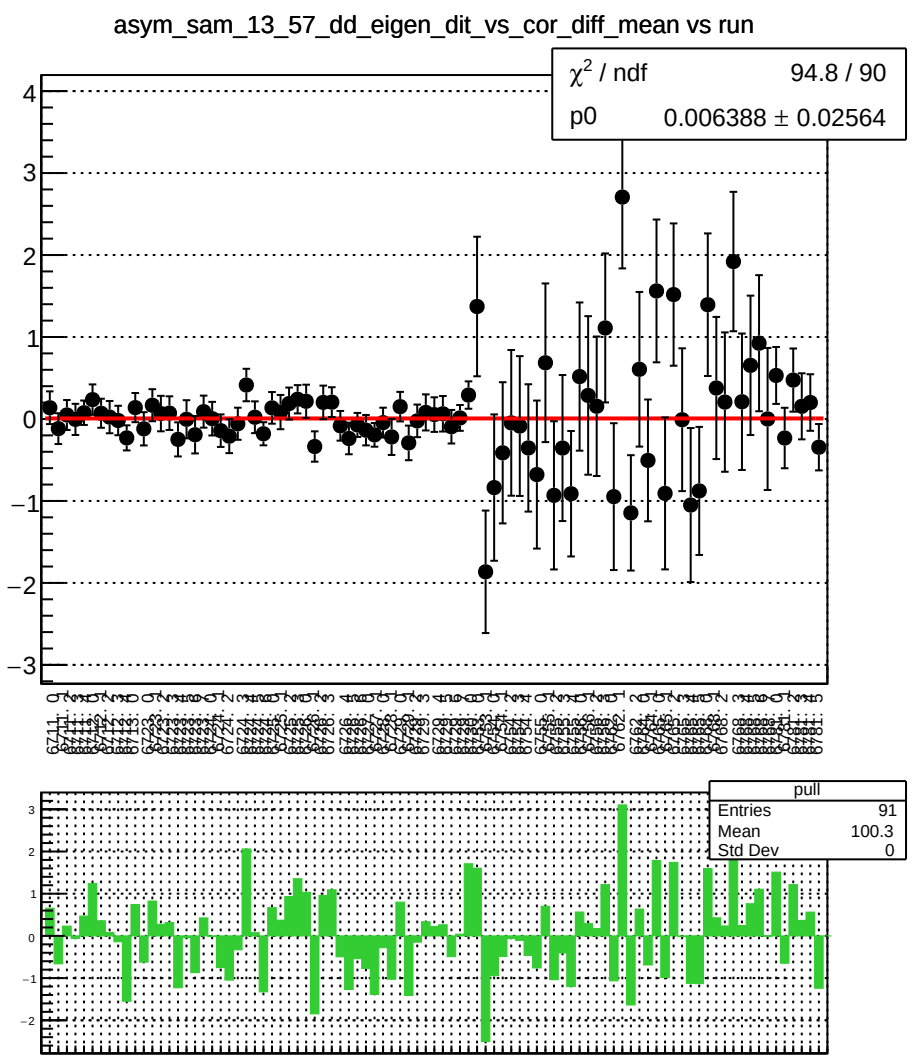

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.308e+05 / 90
p0 21.25 ± 0.01813
100
90
80
70
60
50
40
30
20
10

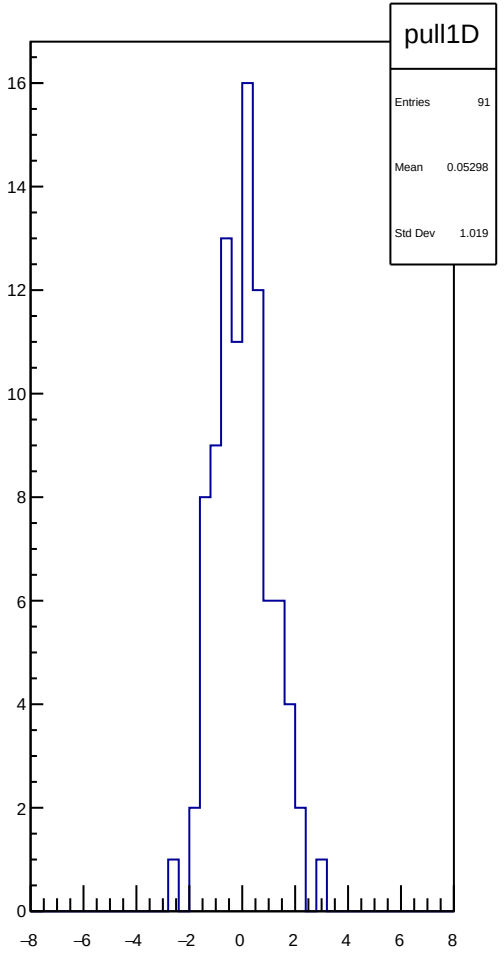

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.8 / 90
p0 0.006387 ± 0.02564
pull
Entries 91
Mean 100.3
Std Dev 0
pull1D
Entries 91
Mean 0.05298
Std Dev 1.019

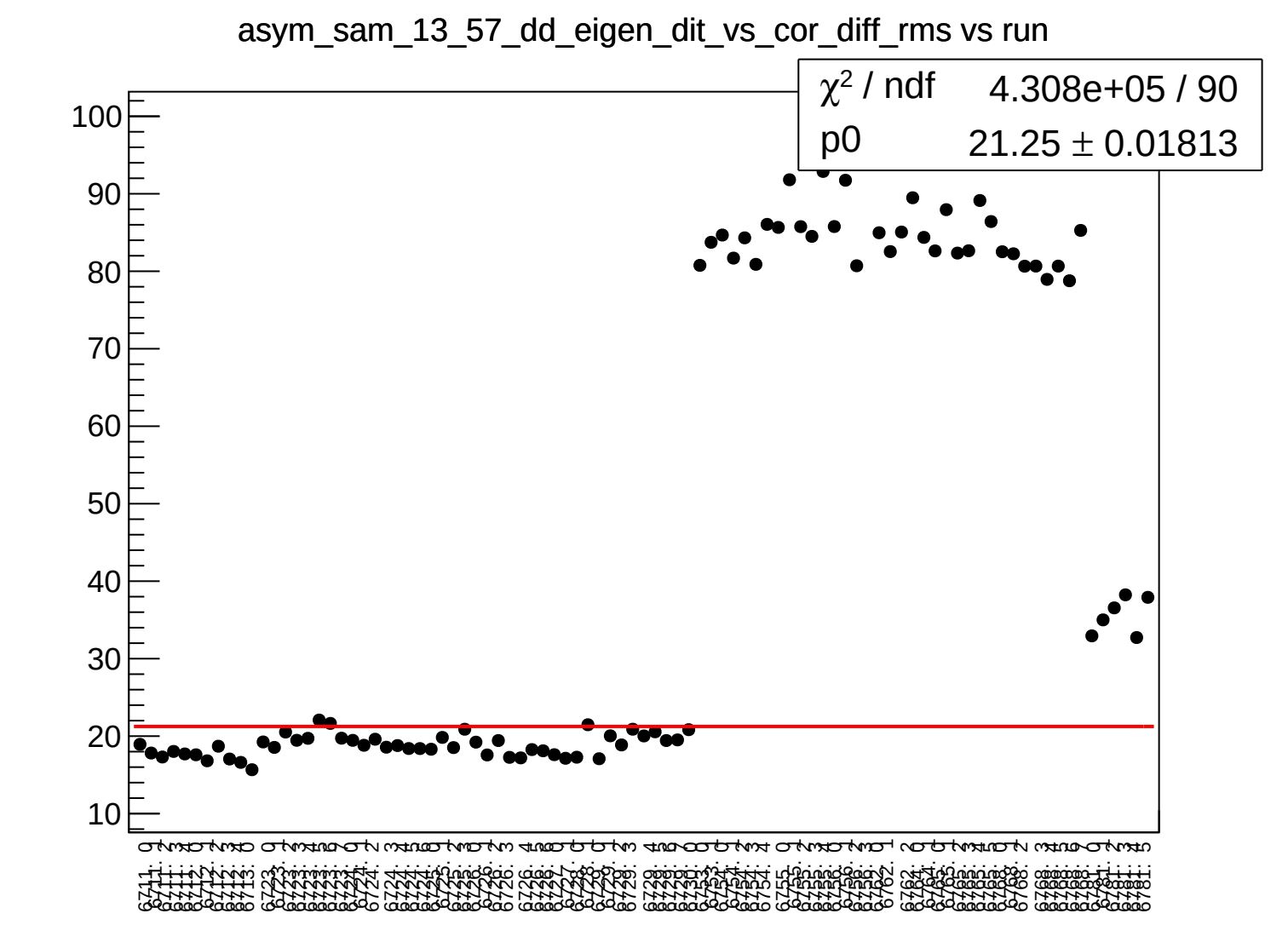

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.308e+05 / 90
p0 21.25 ± 0.01813
100
90
80
70
60
50
40
30
20
10

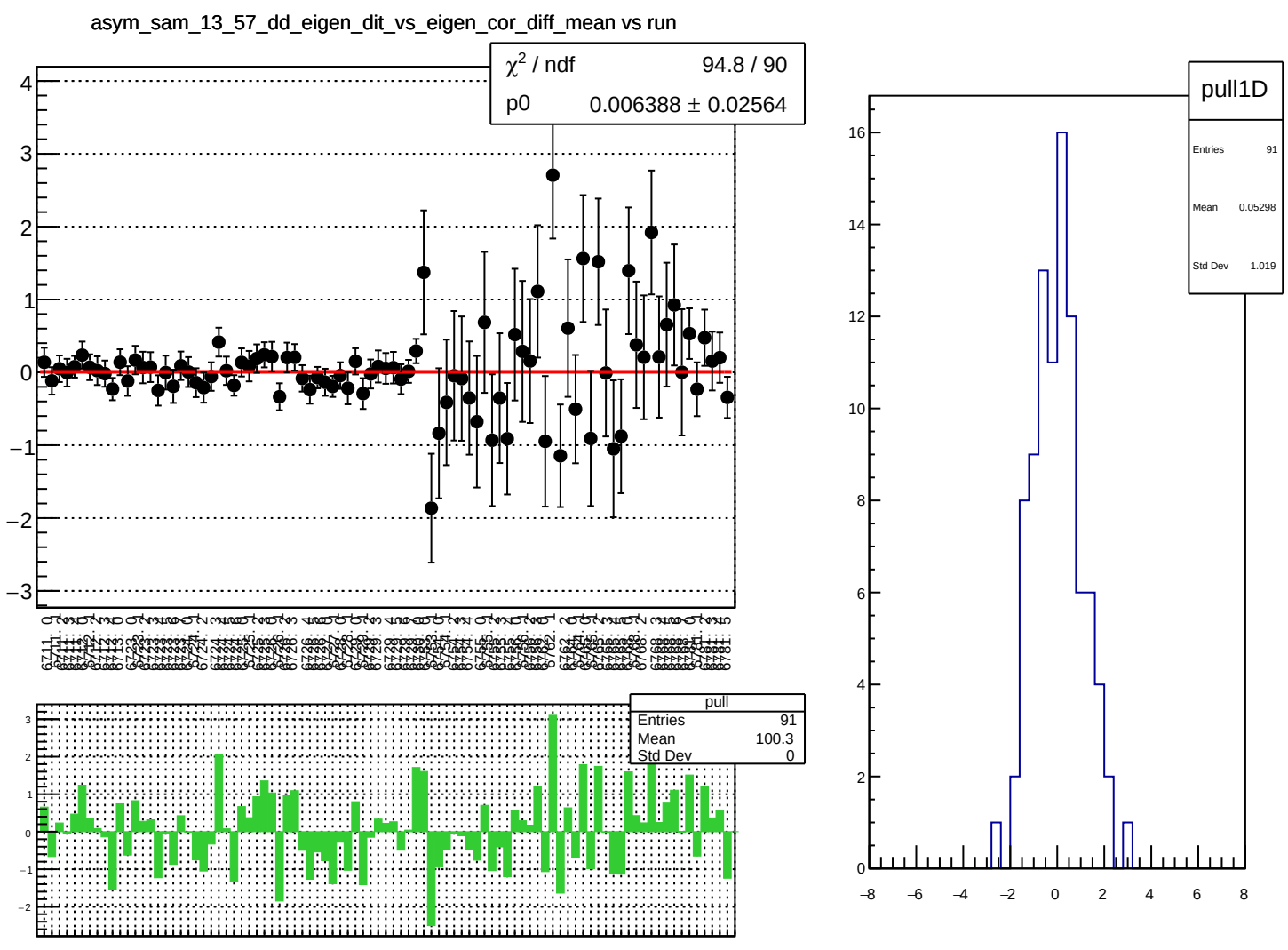

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.21 / 90
p0 4.349e−07 ± 6.952e−07
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 91
Mean −36.38
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01591
Std Dev 0.99
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

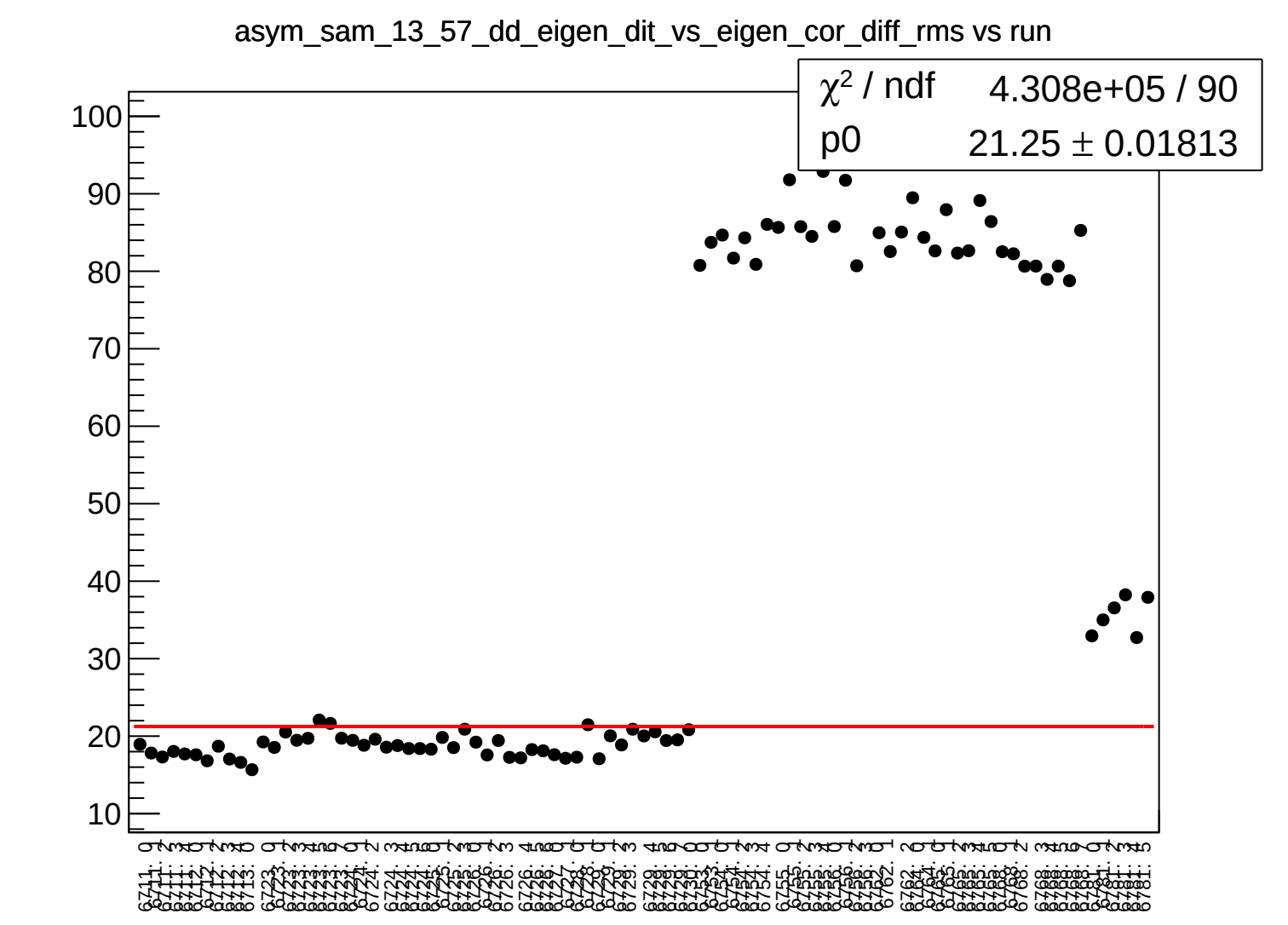

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.95e+04 / 90
p0 0.0006531 ± 4.916e−07
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005

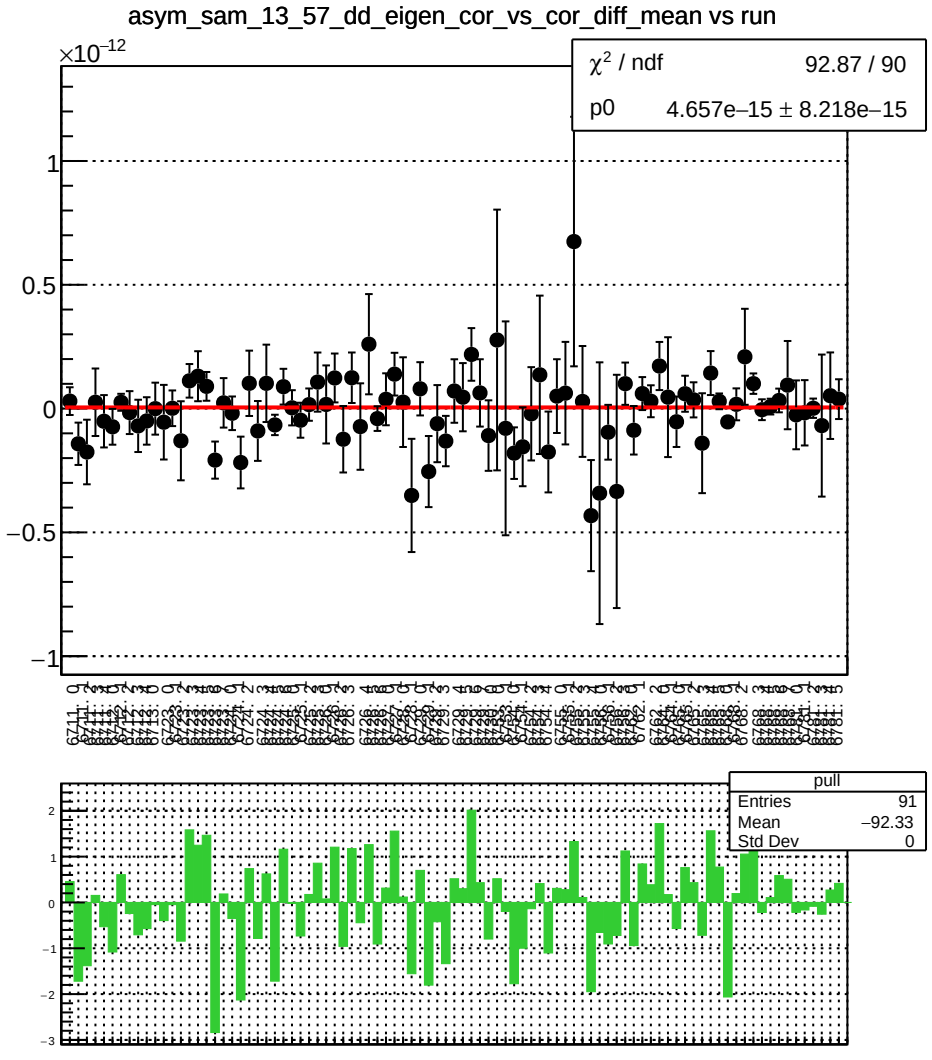

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.8 / 90
p0 0.006388 ± 0.02564
pull
Entries 91
Mean 100.3
Std Dev 0

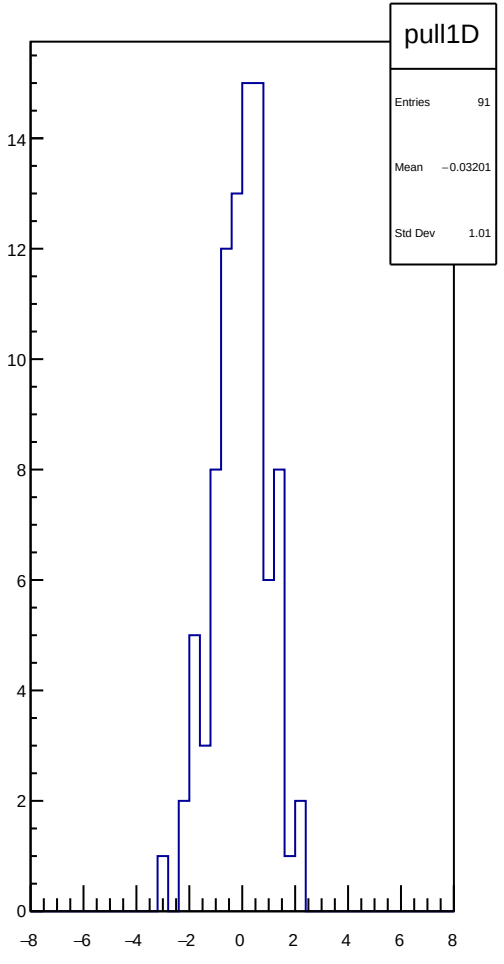

pull1D
Entries 91
Mean 0.05298
Std Dev 1.019

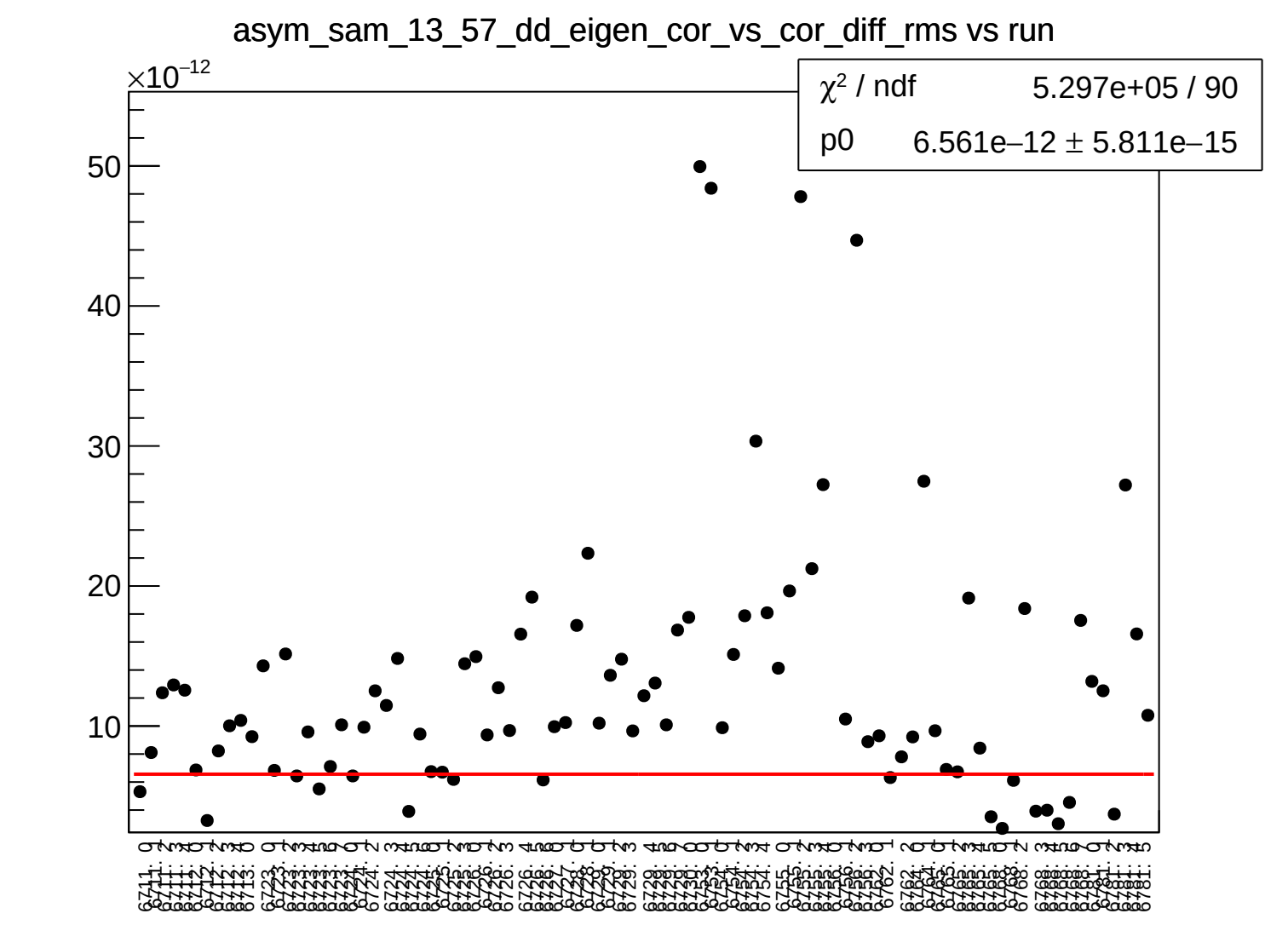

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.308e+05 / 90
p0 21.25 ± 0.01813
100
90
80
70
60
50
40
30
20
10

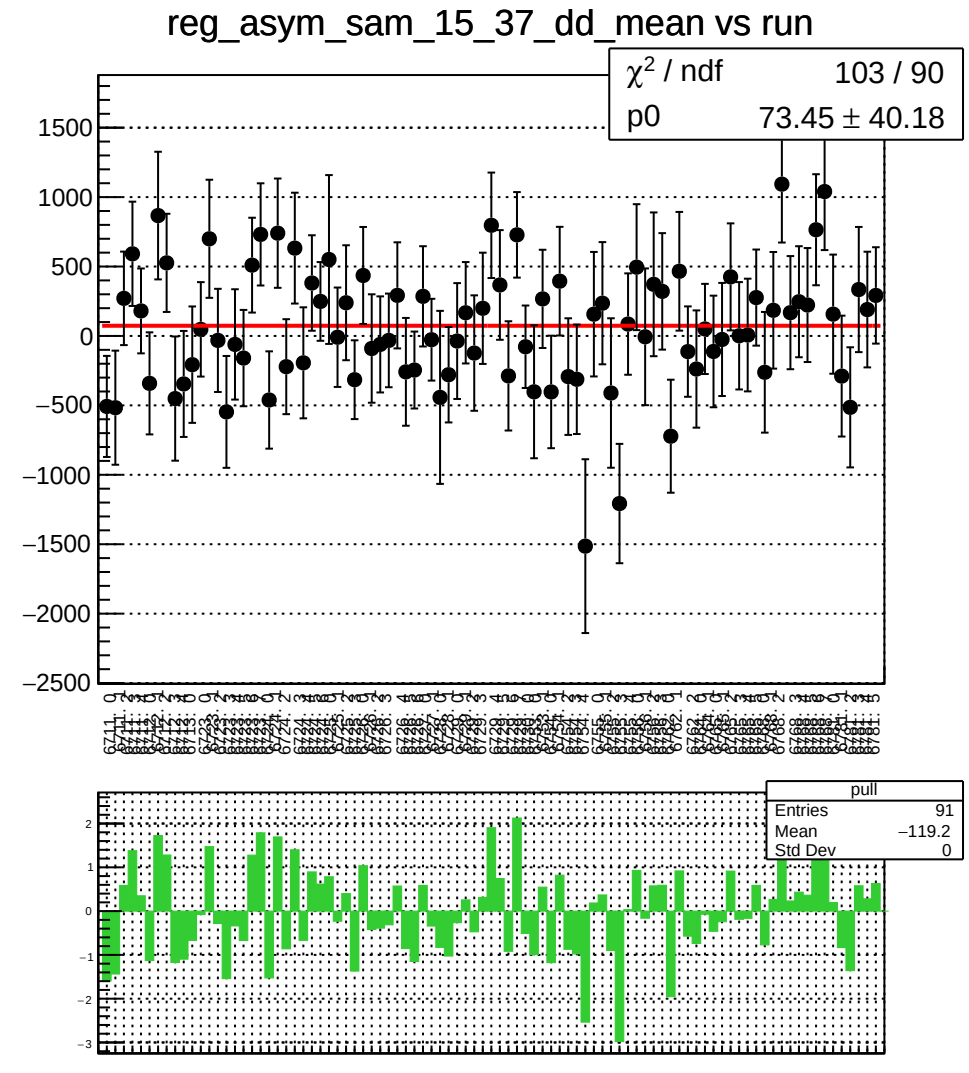

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.8 / 90
p0 0.006388 ± 0.02564
pull
Entries 91
Mean 100.3
Std Dev 0
pull1D
Entries 91
Mean 0.05298
Std Dev 1.019

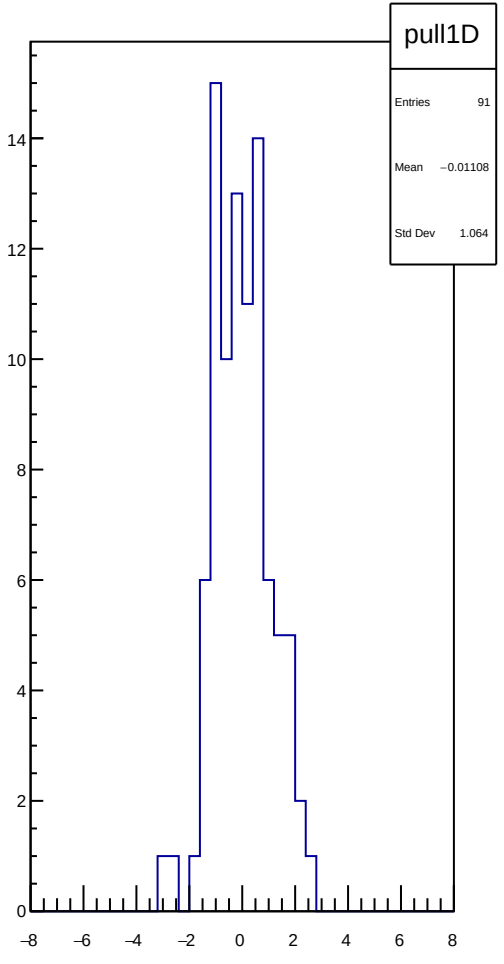

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.308e+05 / 90
p0 21.25 ± 0.01813
100
90
80
70
60
50
40
30
20
10

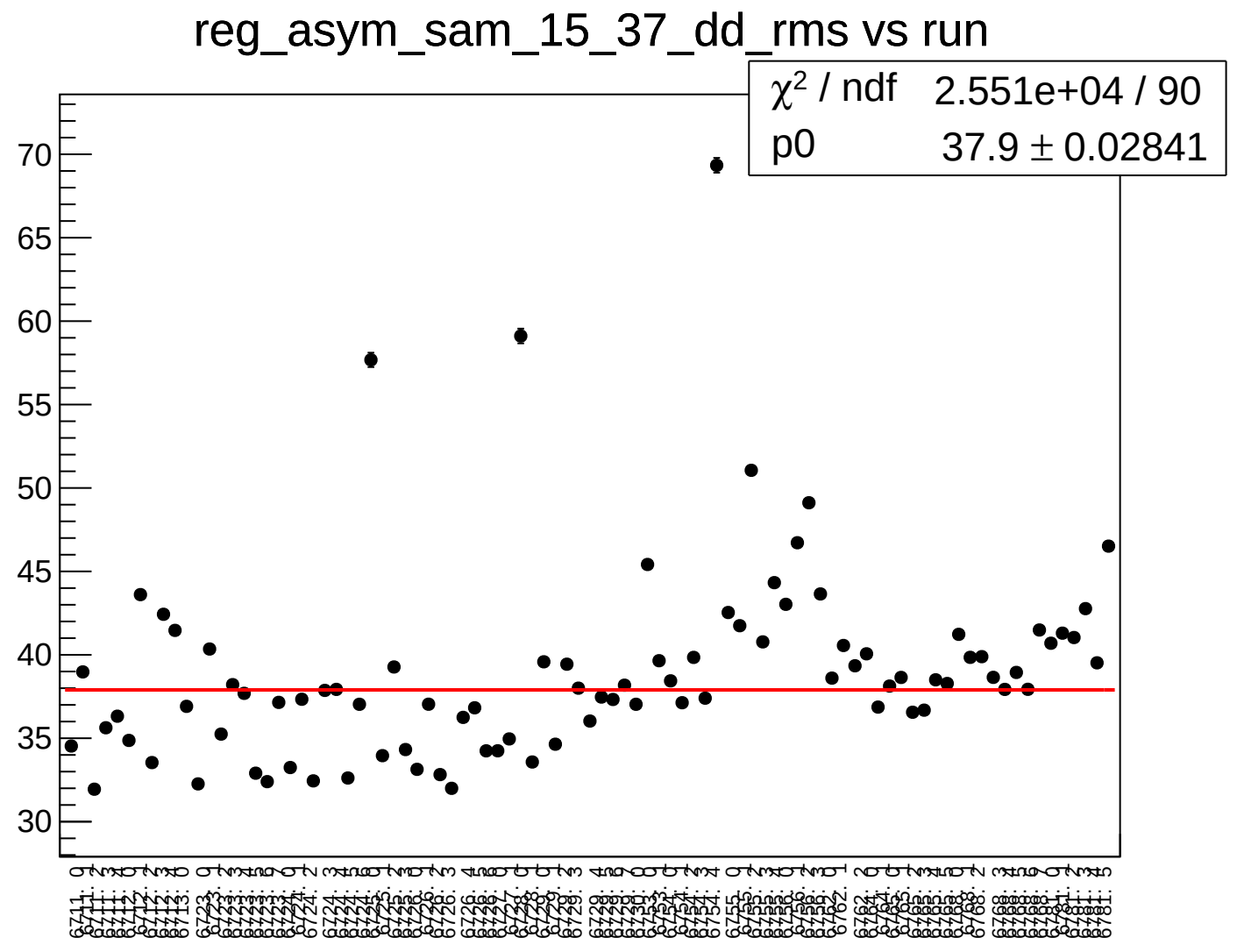

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.87 / 90
p0 4.657e−15 ± 8.218e−15
1
0.5
0
−0.5
−1
pull
Entries 91
Mean −92.33
Std Dev 0
2
1
0
−1
−2
−3

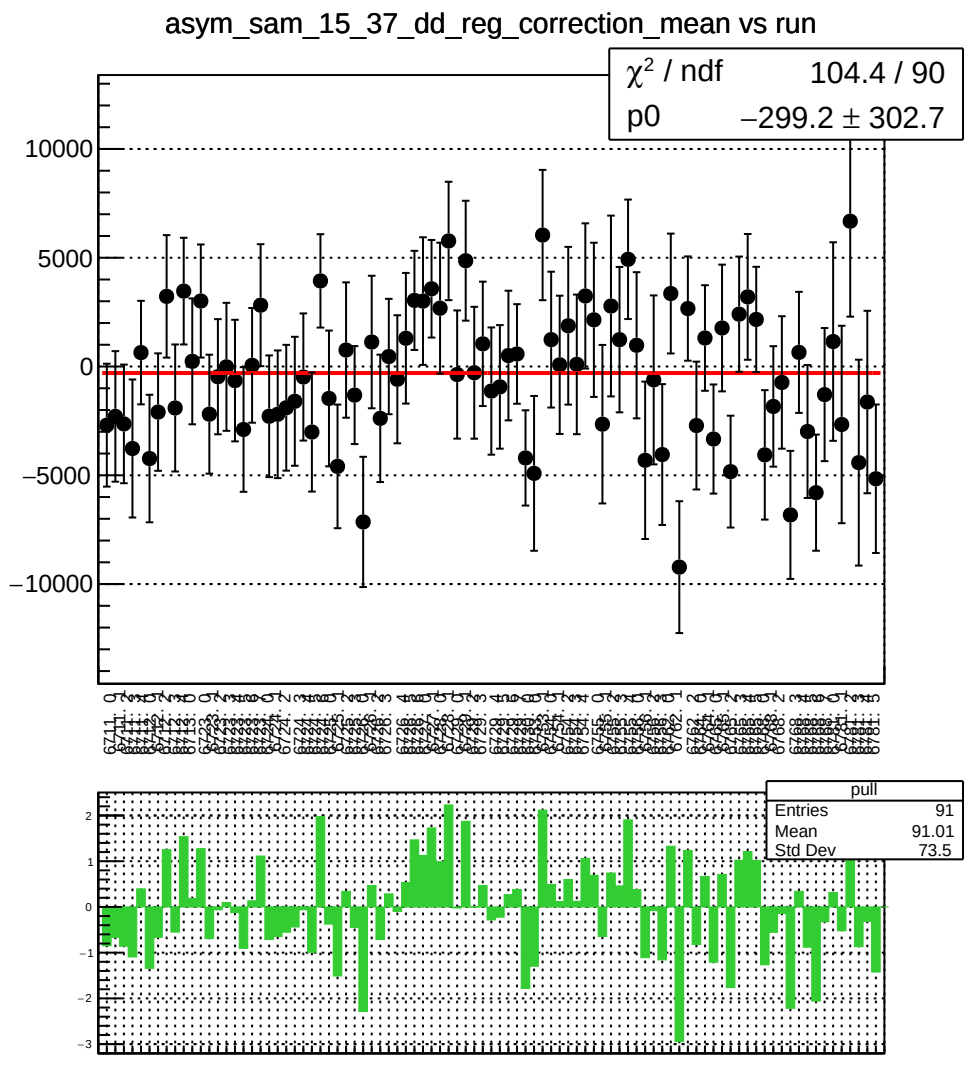

pull1D
Entries 91
Mean −0.03201
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

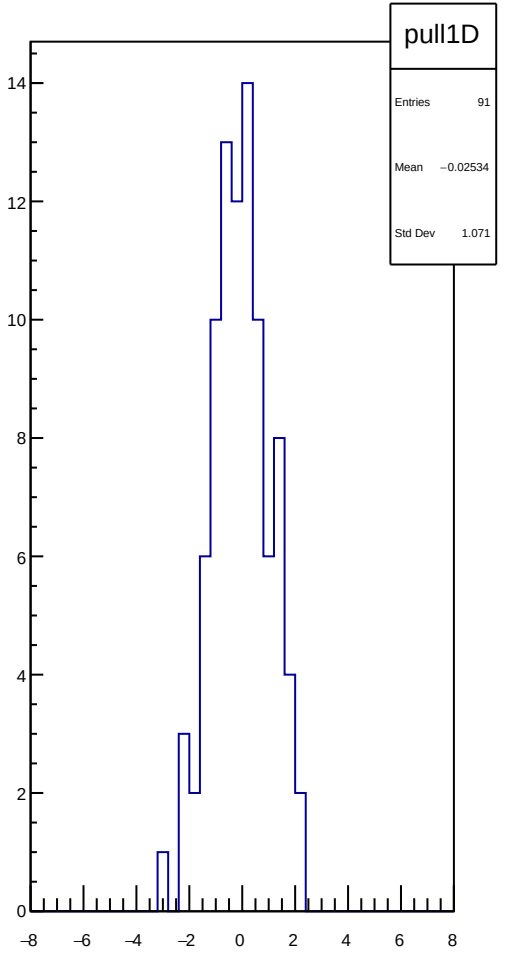

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.297e+05 / 90
p0 6.561e−12 ± 5.811e−15
50
40
30
20
10

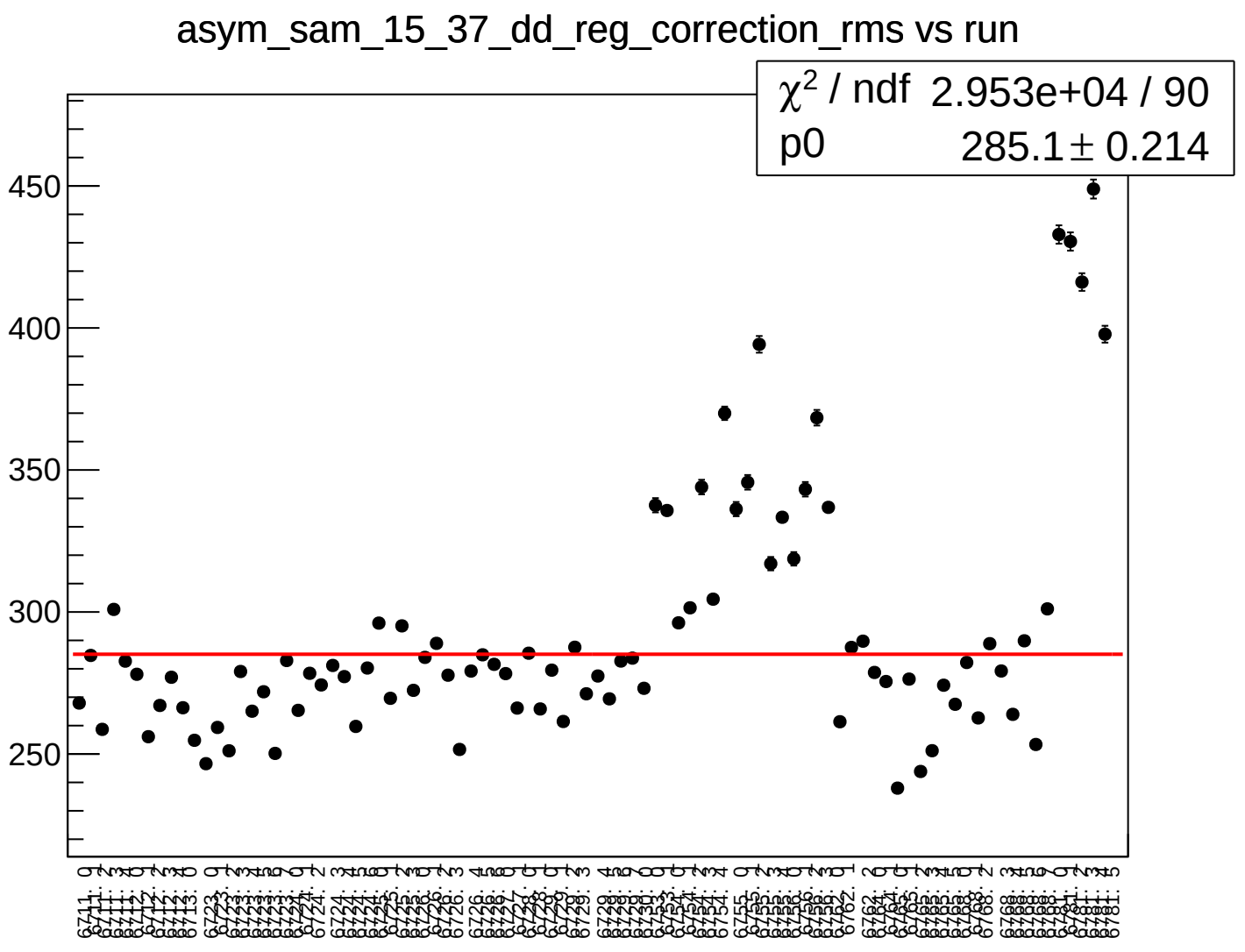

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 103 / 90
p0 73.45 ± 40.18
pull
Entries 91
Mean −119.2
Std Dev 0

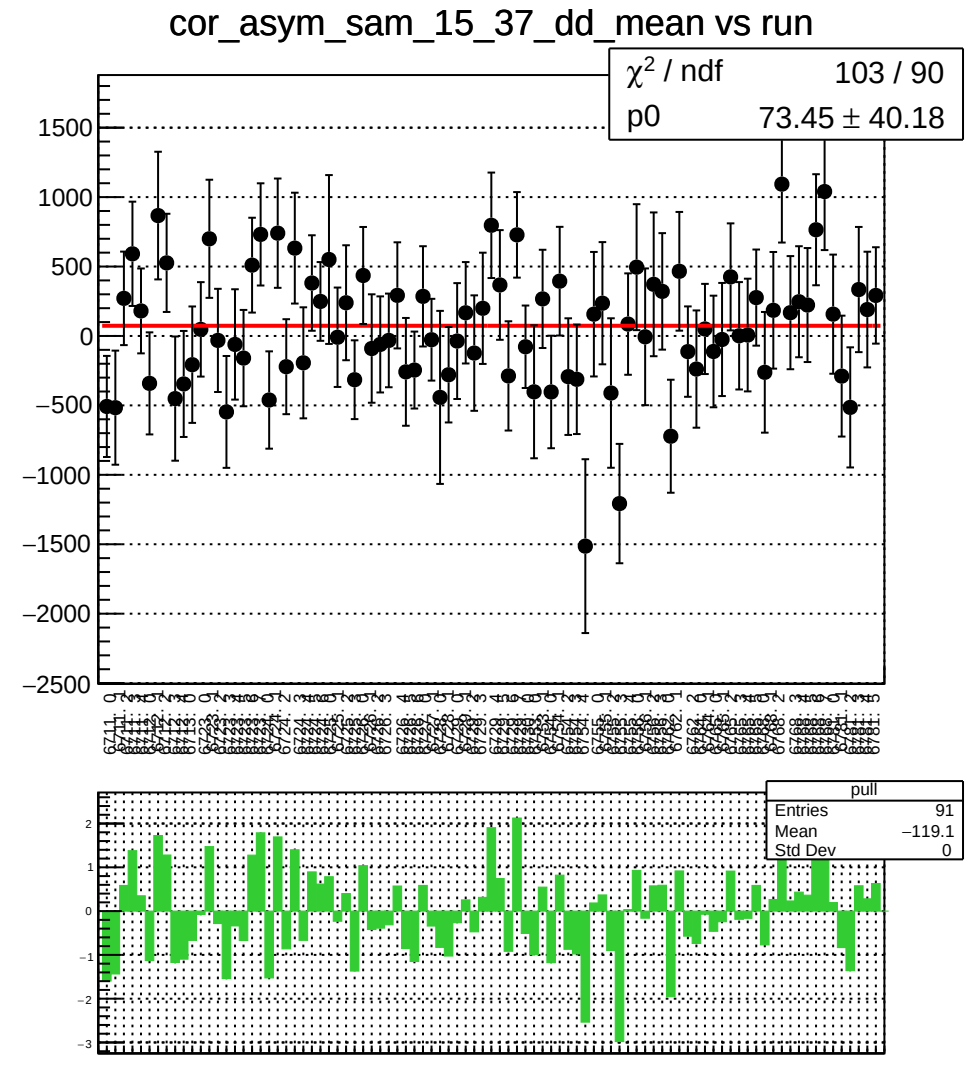

pull1D
Entries 91
Mean −0.01108
Std Dev 1.064

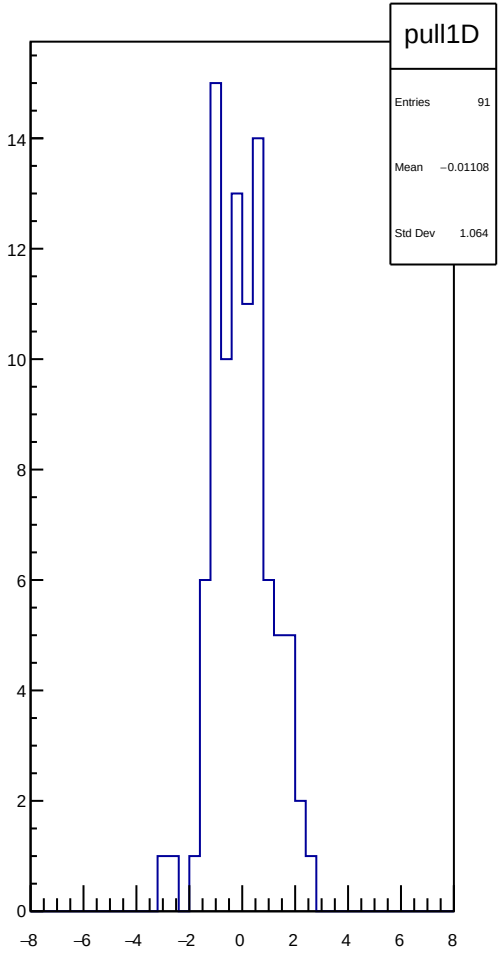

reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2.551e+04 / 90
p0 37.9 ± 0.02841
70
65
60
55
50
45
40
35
30

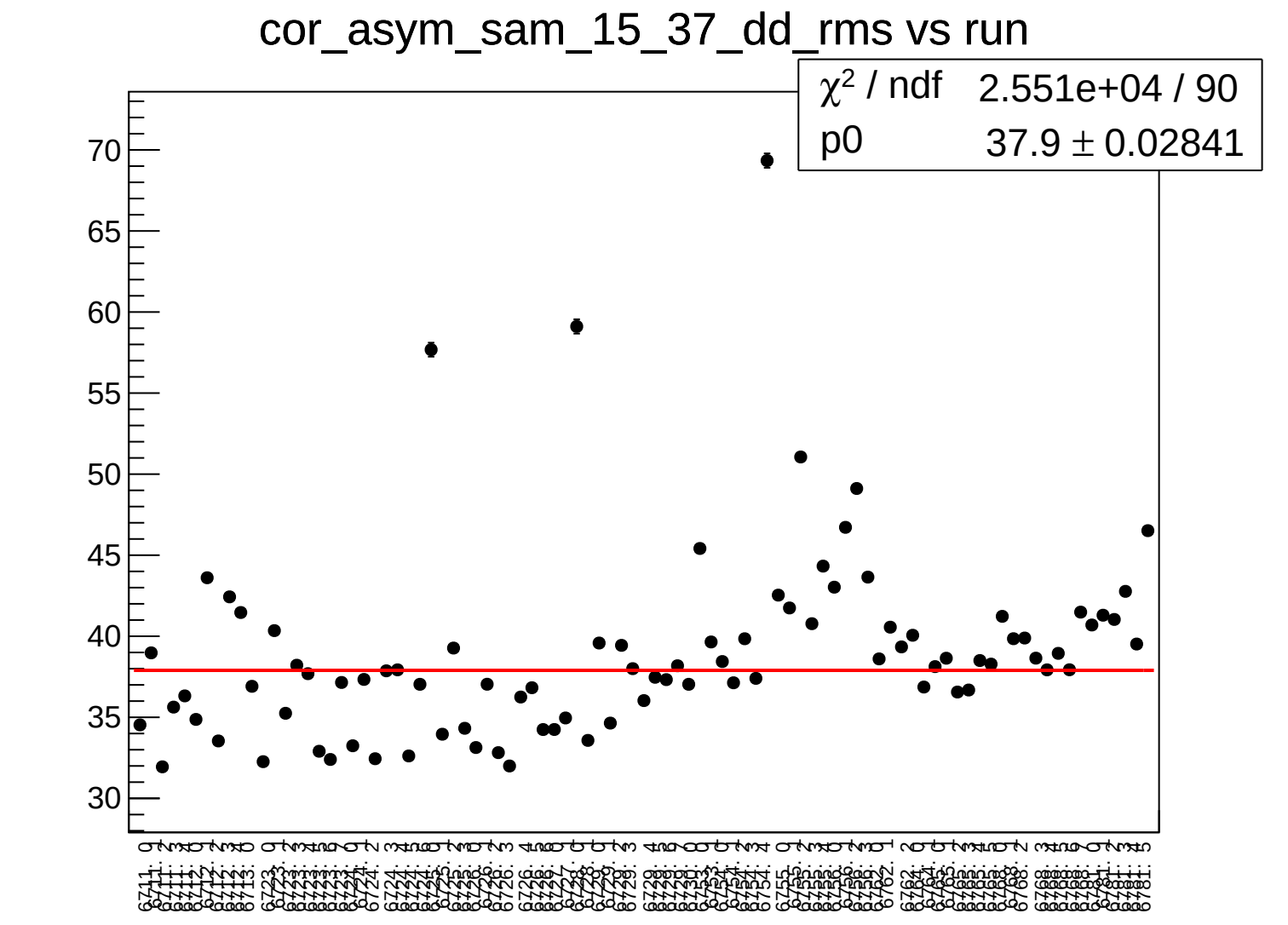

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 104.4 / 90
p0 −299.2 ± 302.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 91.01
Std Dev 73.5
2
1
0
−1
−2
−3

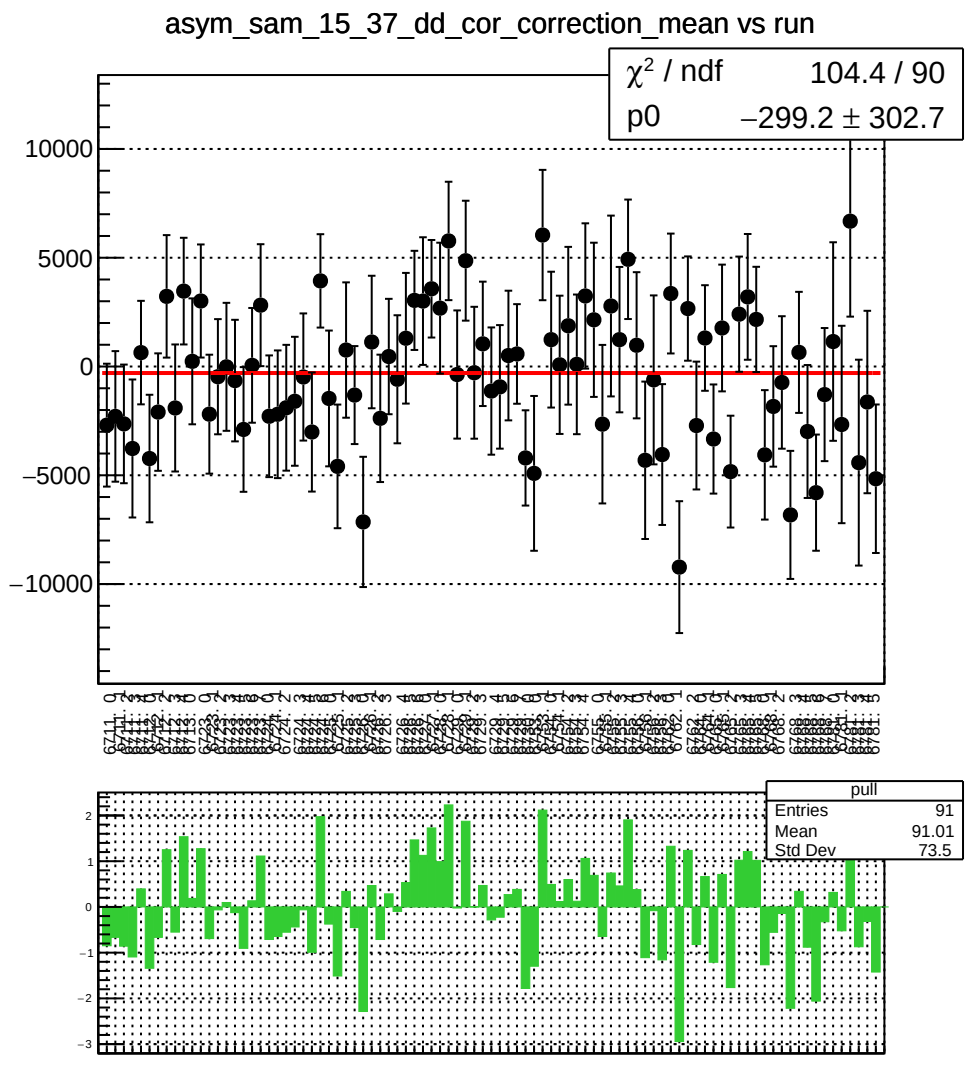

pull1D
Entries 91
Mean −0.02534
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

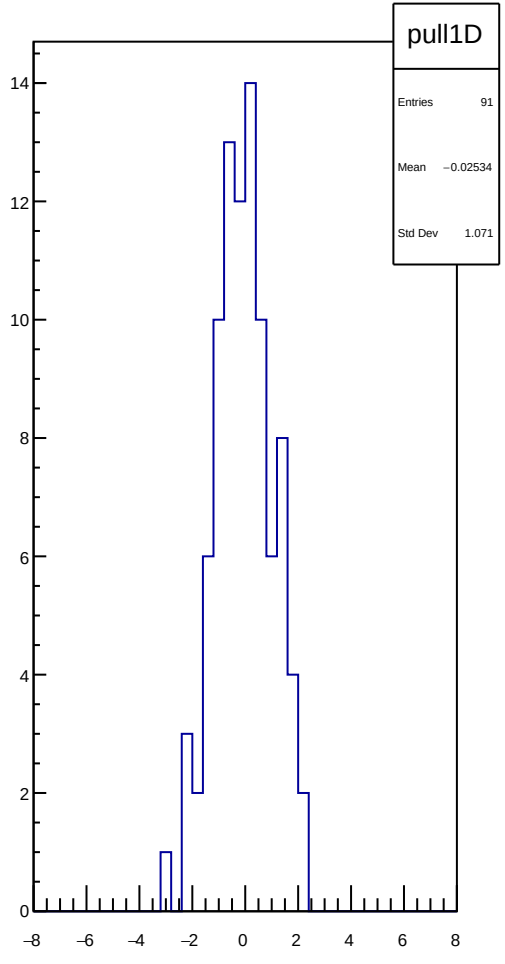

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 2.953e+04 / 90
p0 285.1 ± 0.214
450
400
350
300
250

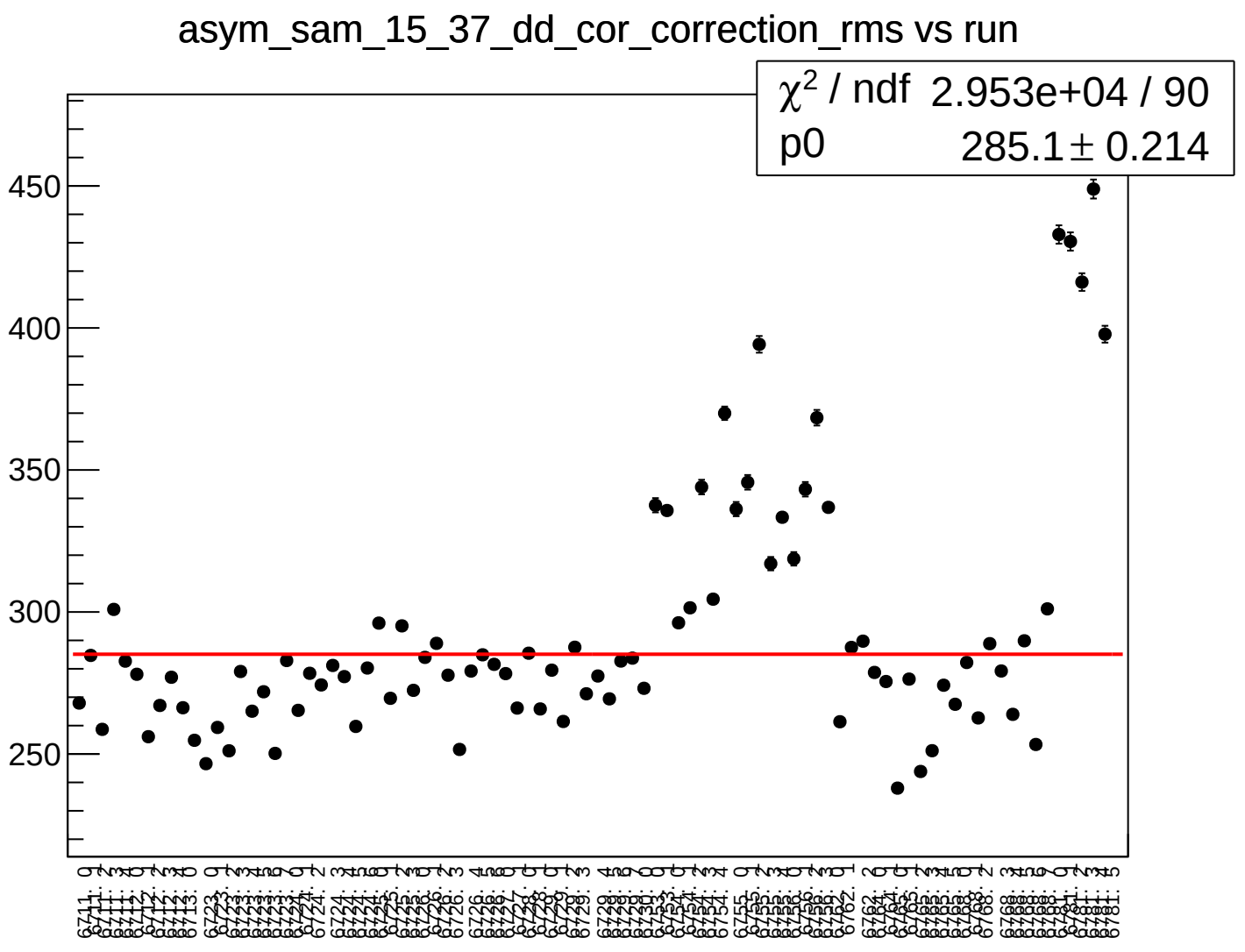

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 103 / 90
p0 73.45 ± 40.18
pull
Entries 91
Mean −119.1
Std Dev 0

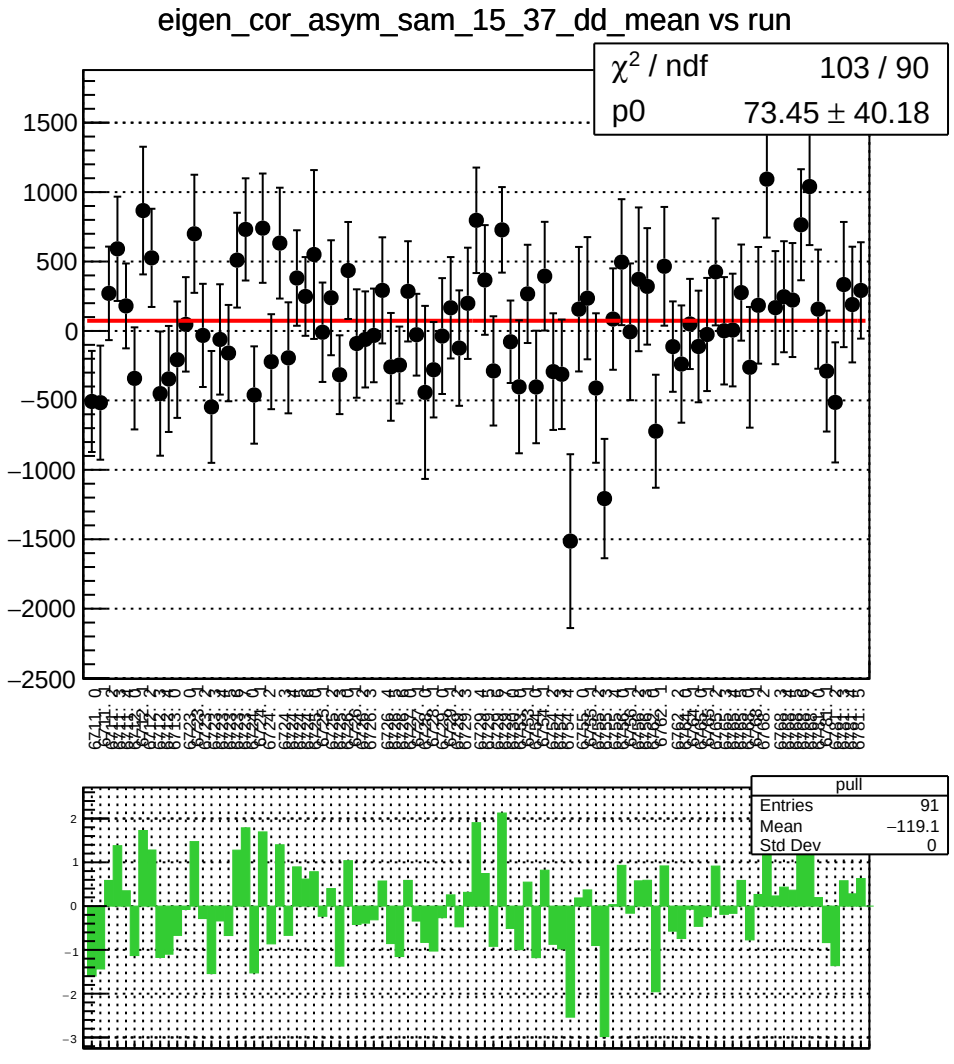

pull1D
Entries 91
Mean −0.01108
Std Dev 1.064

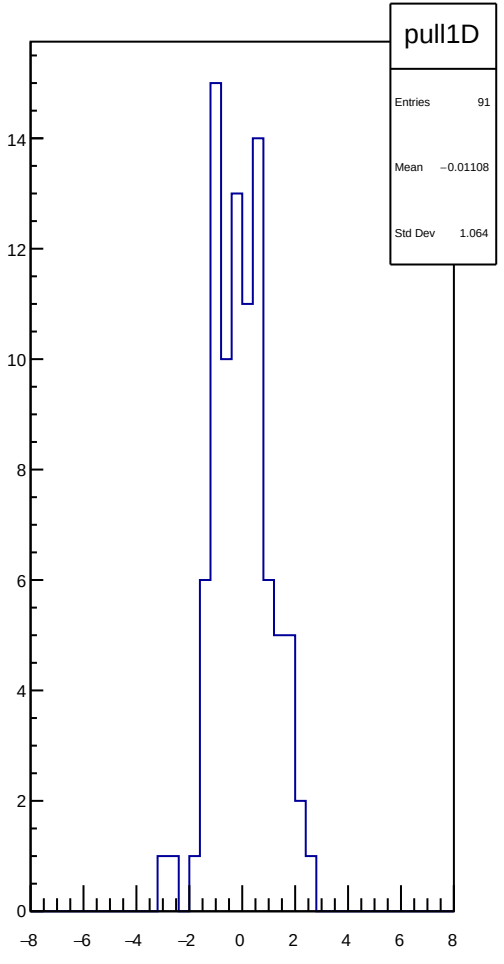

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.551e+04 / 90
p0 37.9 ± 0.02841
70
65
60
55
50
45
40
35
30

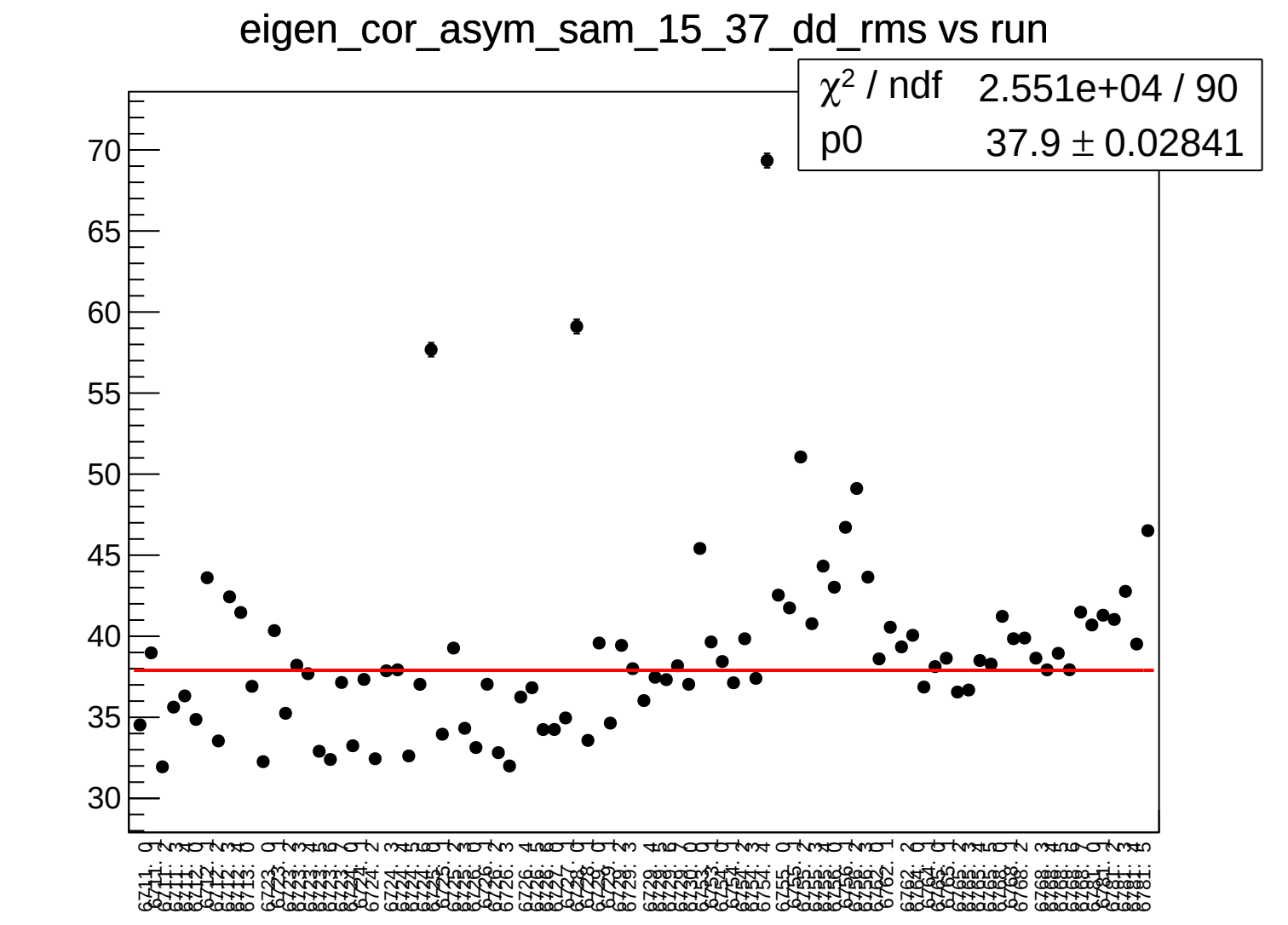

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 104.4 / 90
p0 −299.2 ± 302.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 91.01
Std Dev 73.5
2
1
0
−1
−2
−3

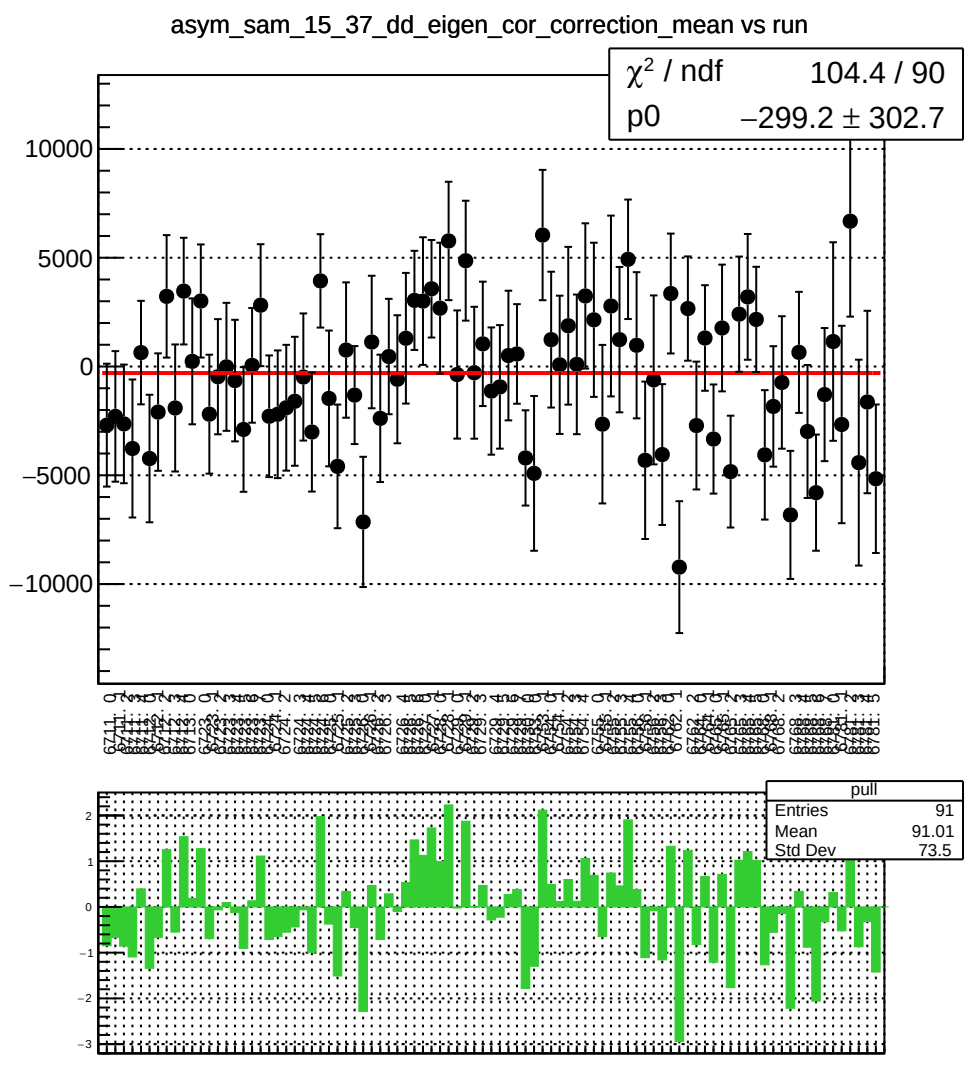

pull1D
Entries 91
Mean −0.02534
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

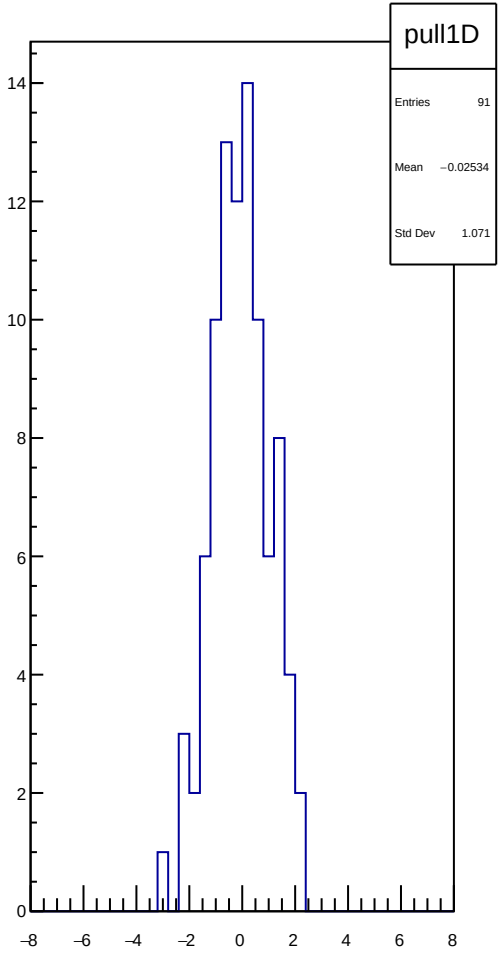

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 2.953e+04 / 90
p0 285.1 ± 0.214
450
400
350
300
250

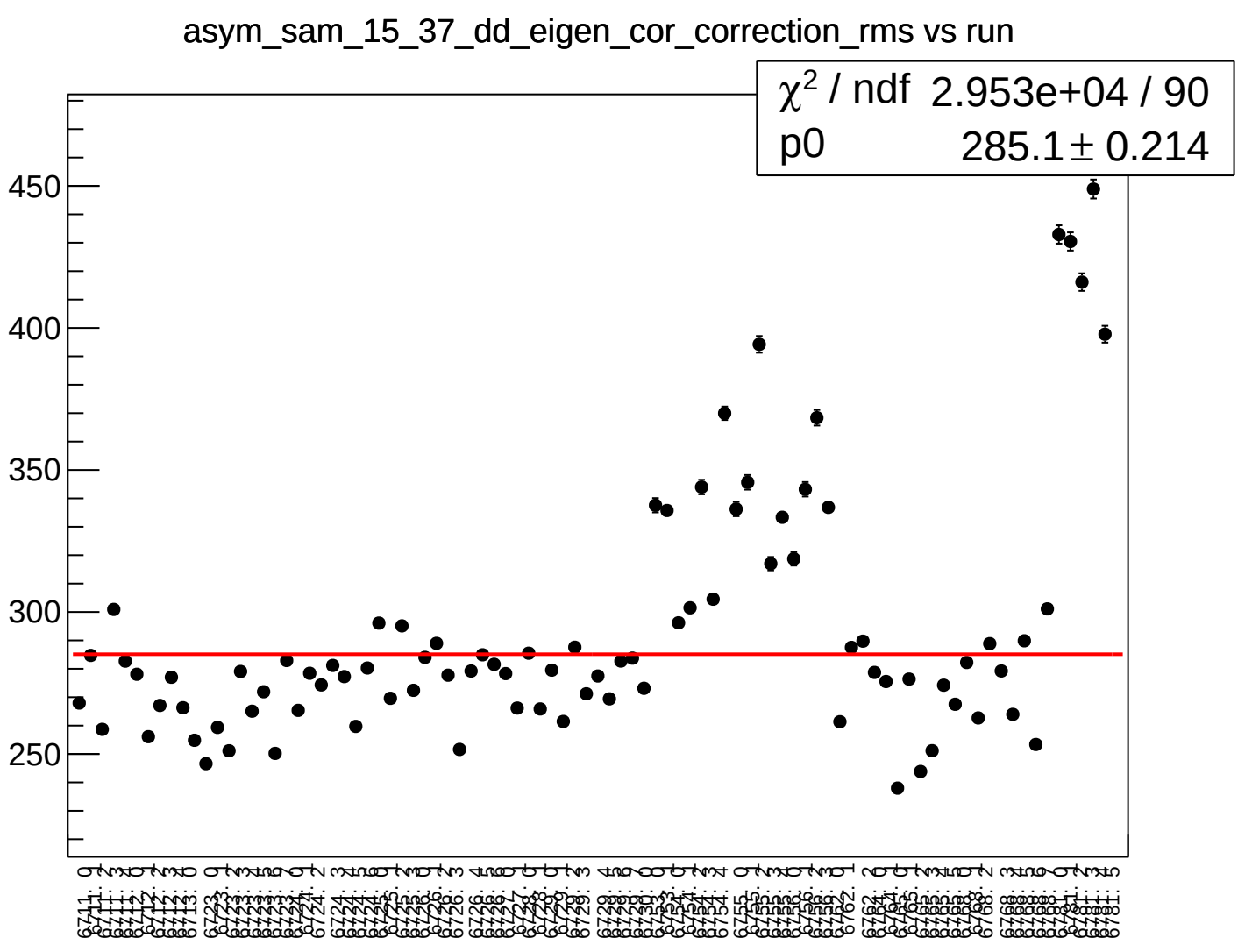

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 103 / 90
p0 73.45 ± 40.18
pull
Entries 91
Mean −119.1
Std Dev 0

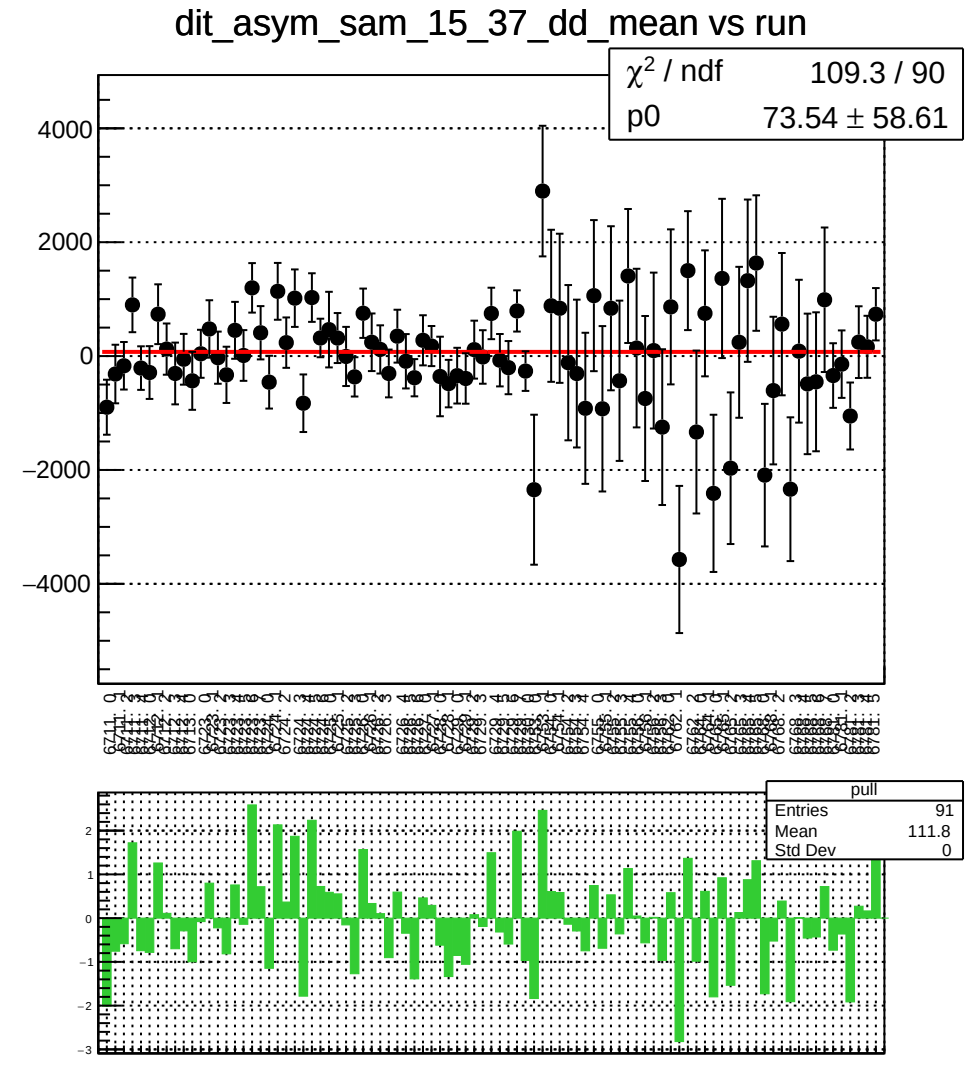

pull1D
Entries 91
Mean −0.01108
Std Dev 1.064

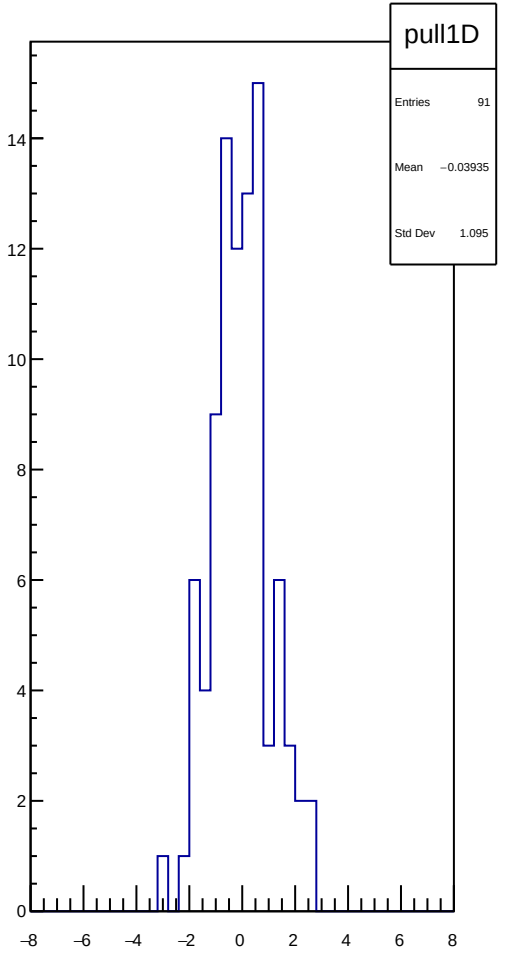

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.551e+04 / 90
p0 37.9 ± 0.02841
70
65
60
55
50
45
40
35
30

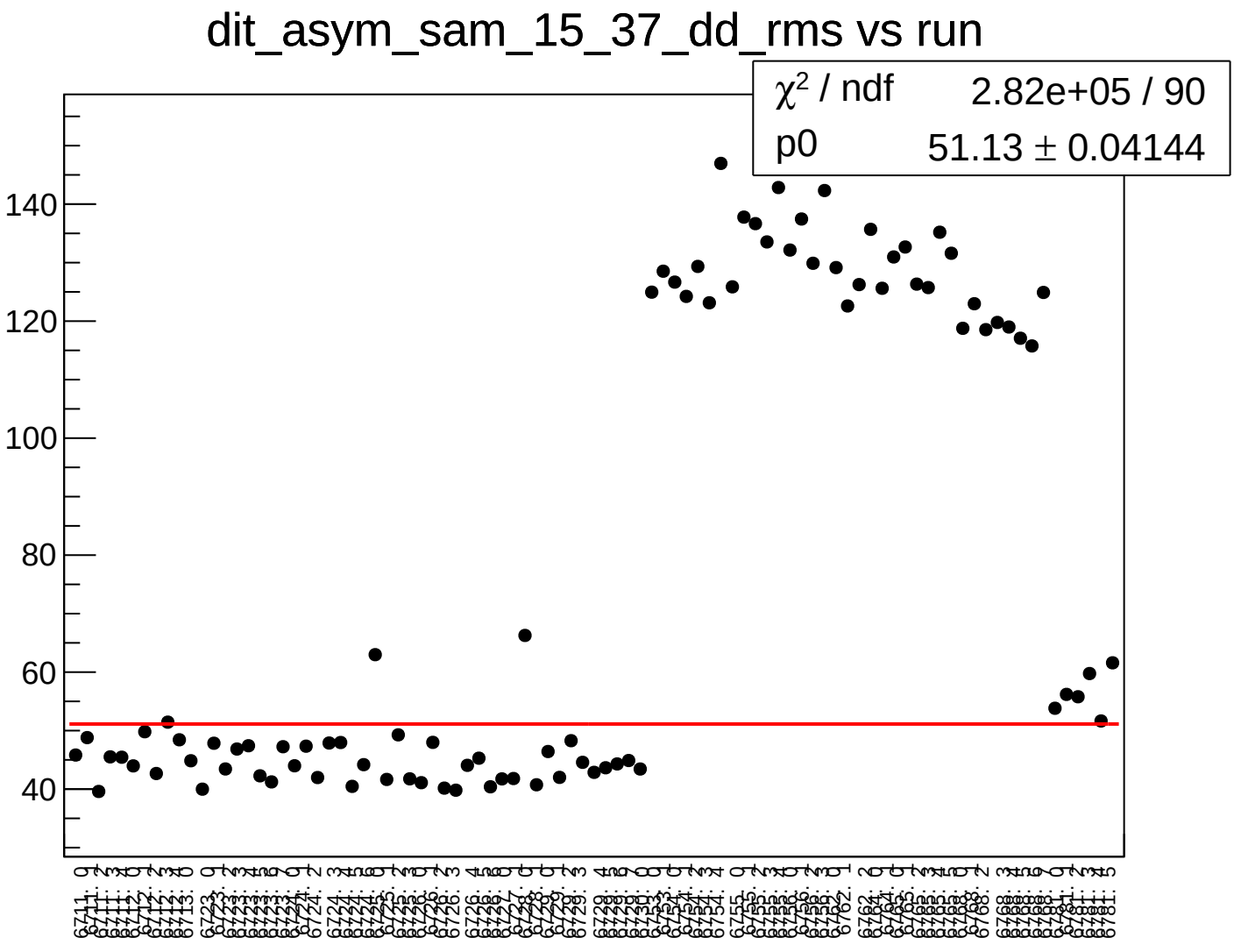

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 104.4 / 90
p0 −299.2 ± 302.7
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 91.01
Std Dev 73.5
2
1
0
−1
−2
−3

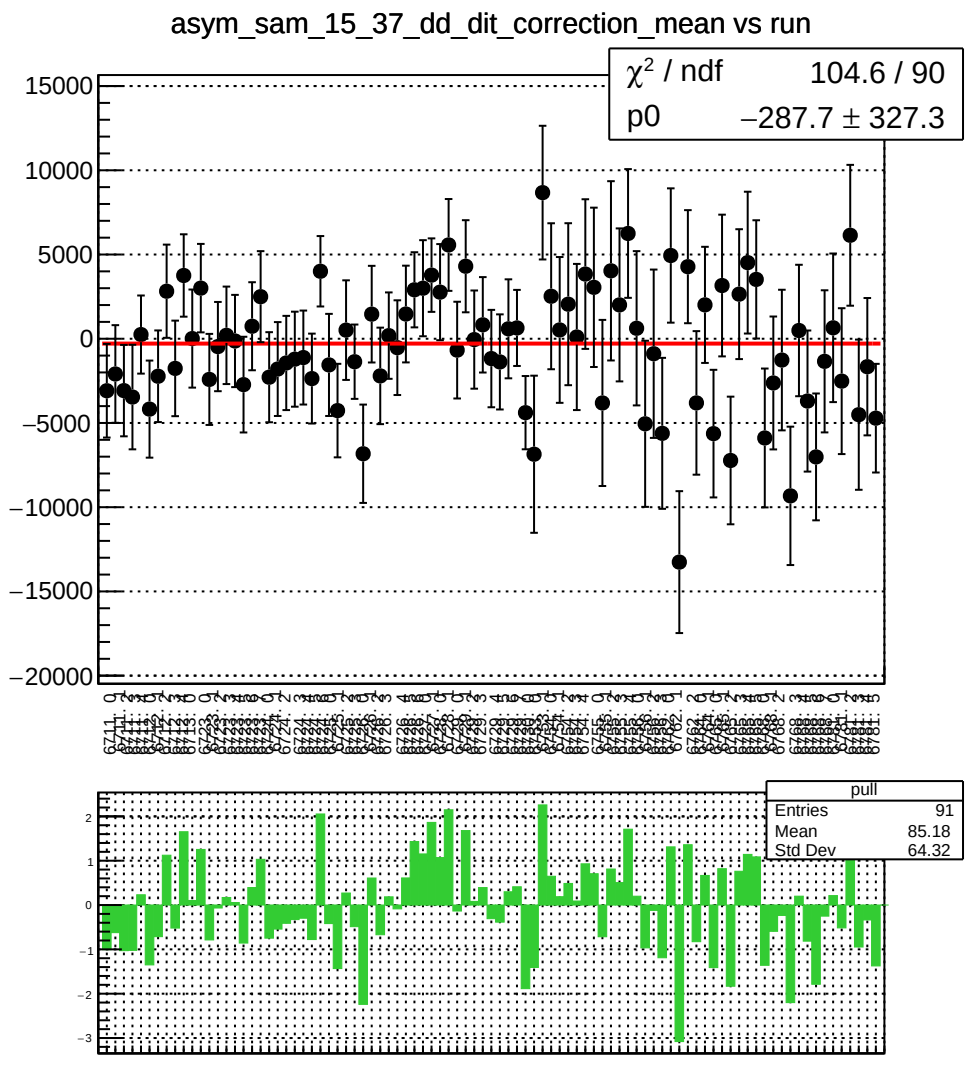

pull1D
Entries 91
Mean −0.02534
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

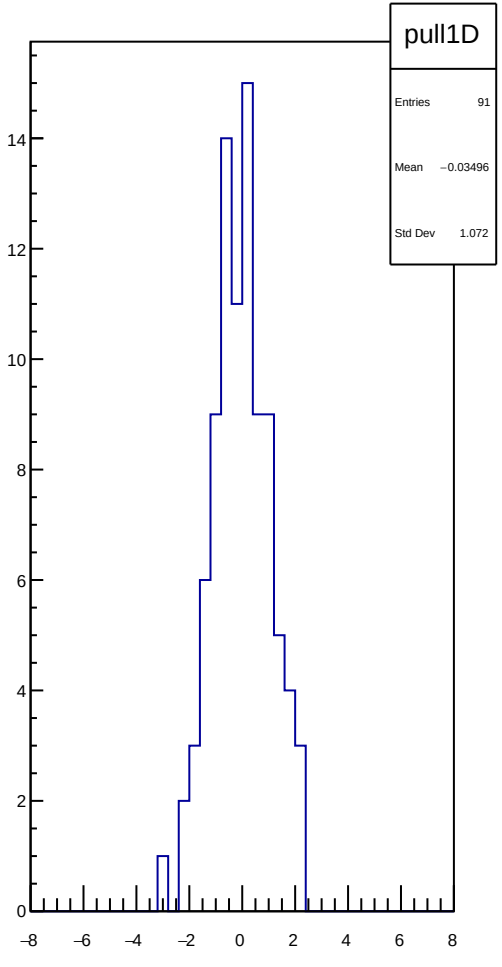

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.953e+04 / 90
p0 285.1 ± 0.214
450
400
350
300
250

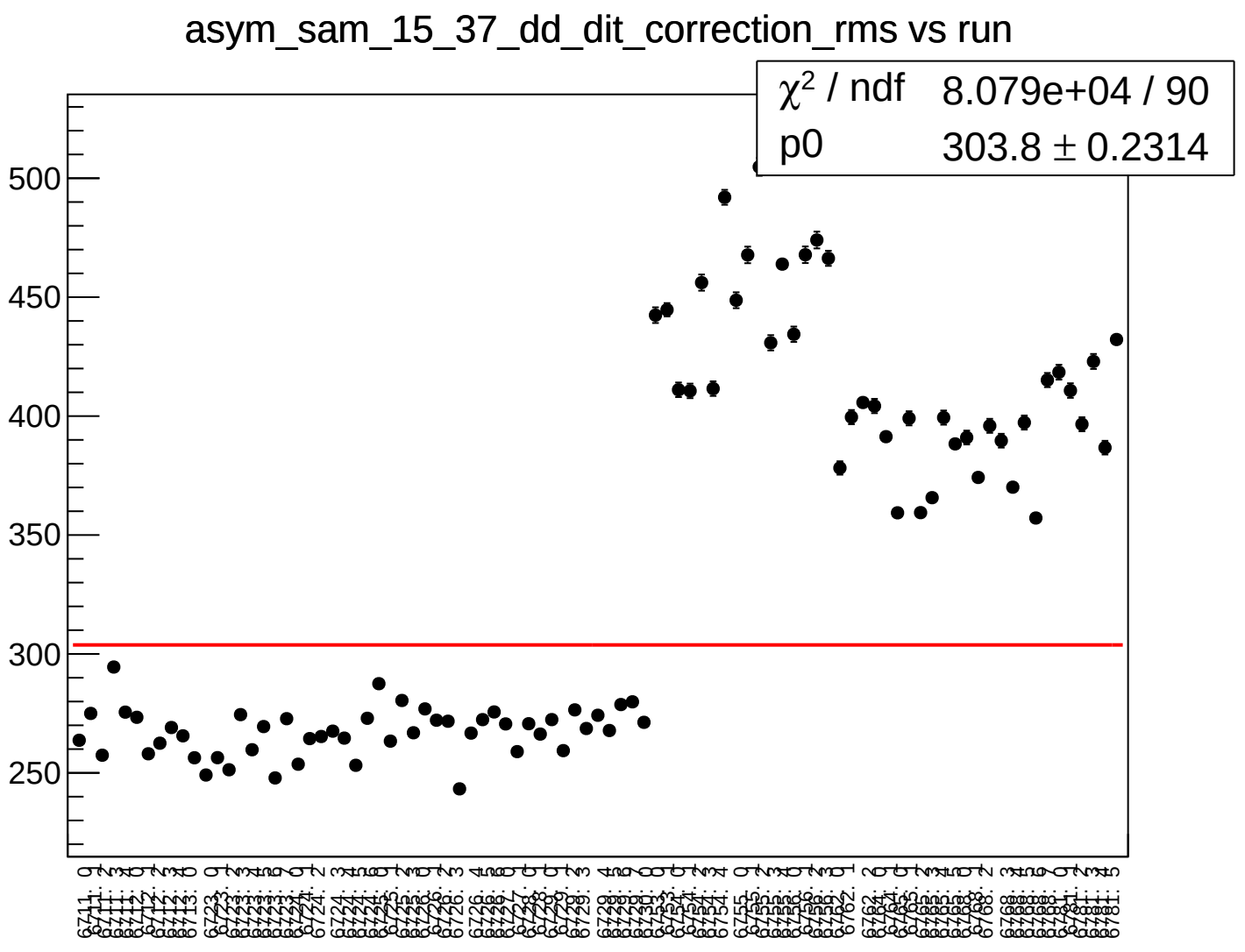

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 109.3 / 90
p0 73.54 ± 58.61
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 111.8
Std Dev 0
2
1
0
−1
−2
−3

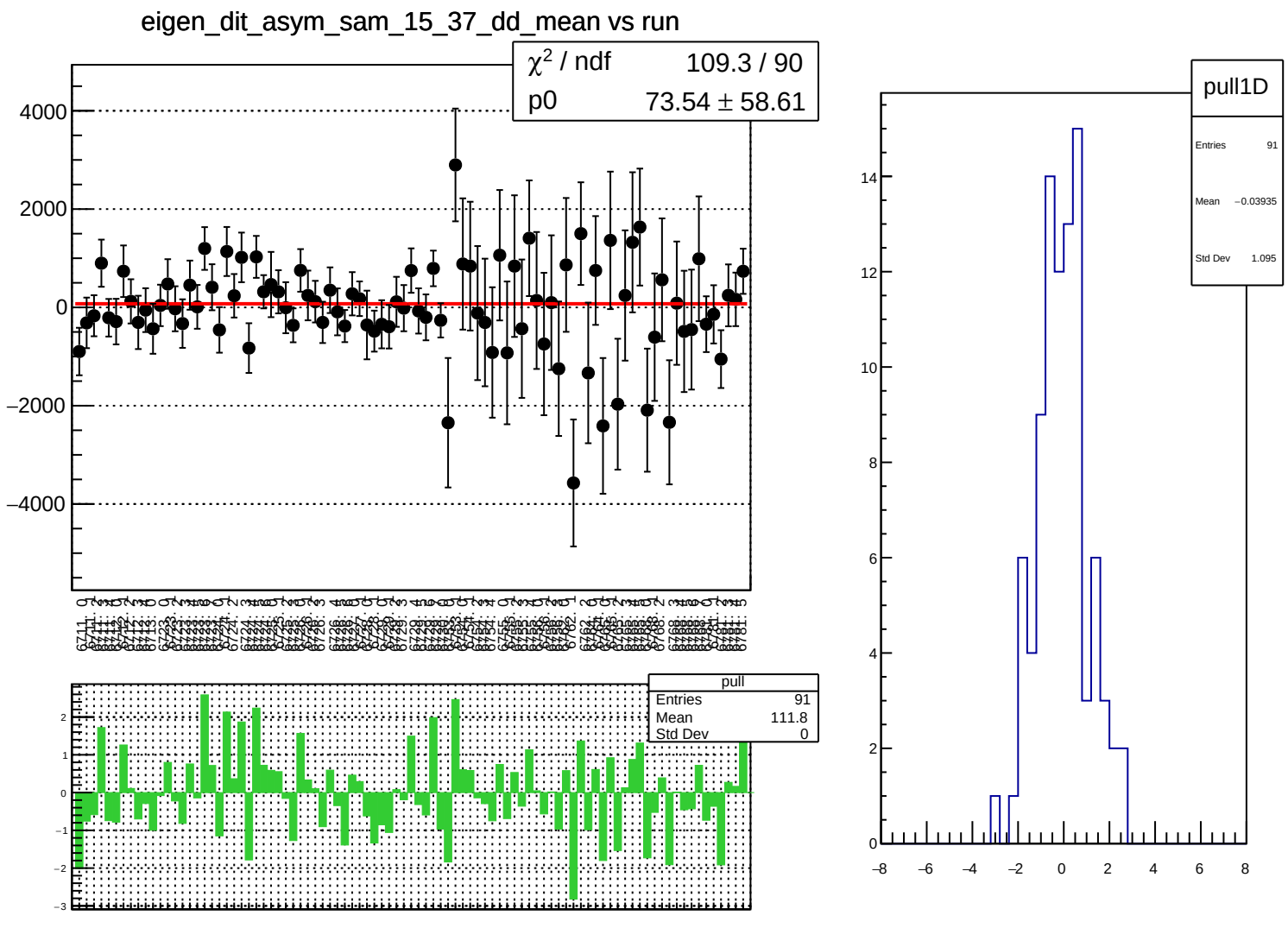

pull1D
Entries 91
Mean −0.03935
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

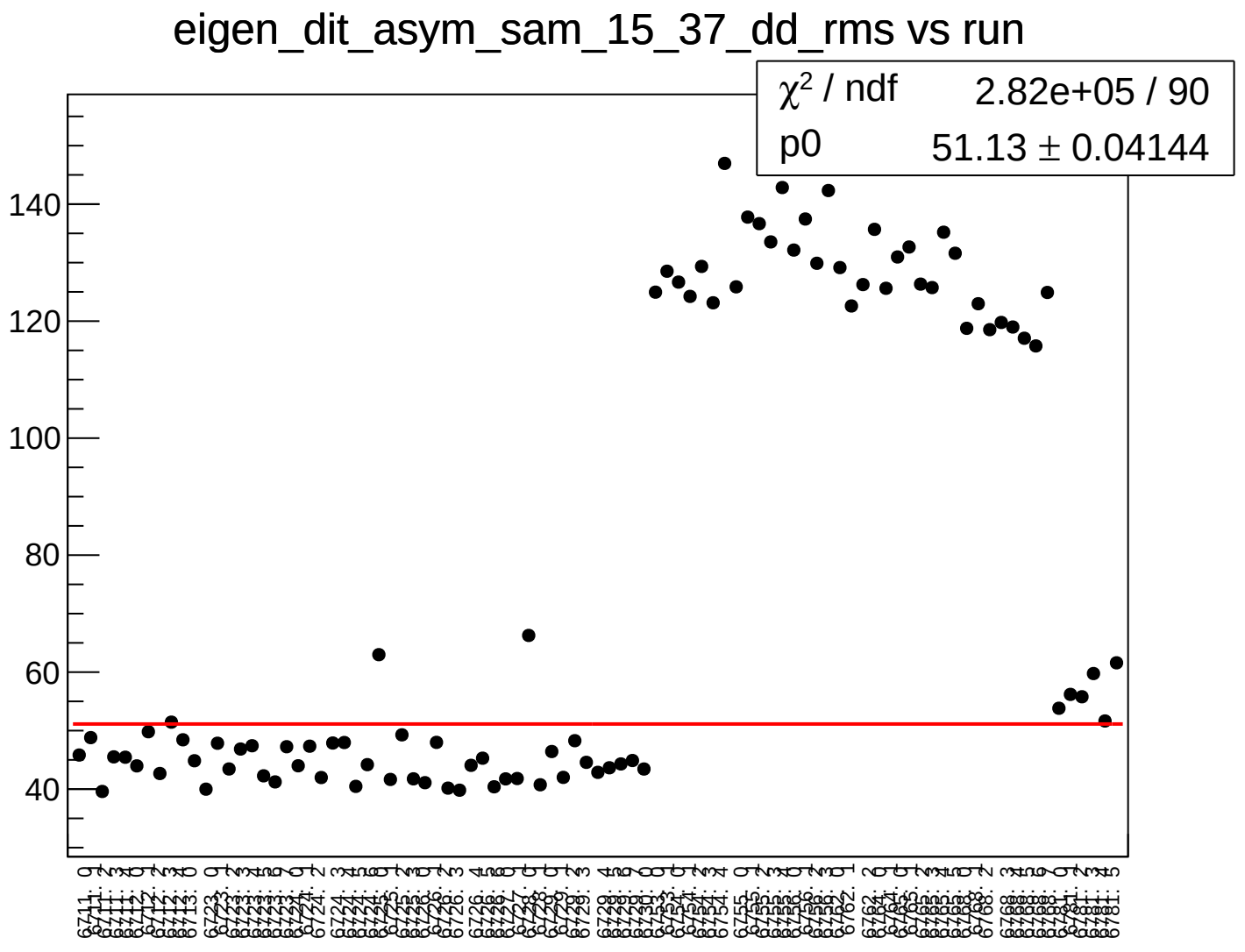

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.82e+05 / 90
p0 51.13 ± 0.04144
140
120
100
80
60
40

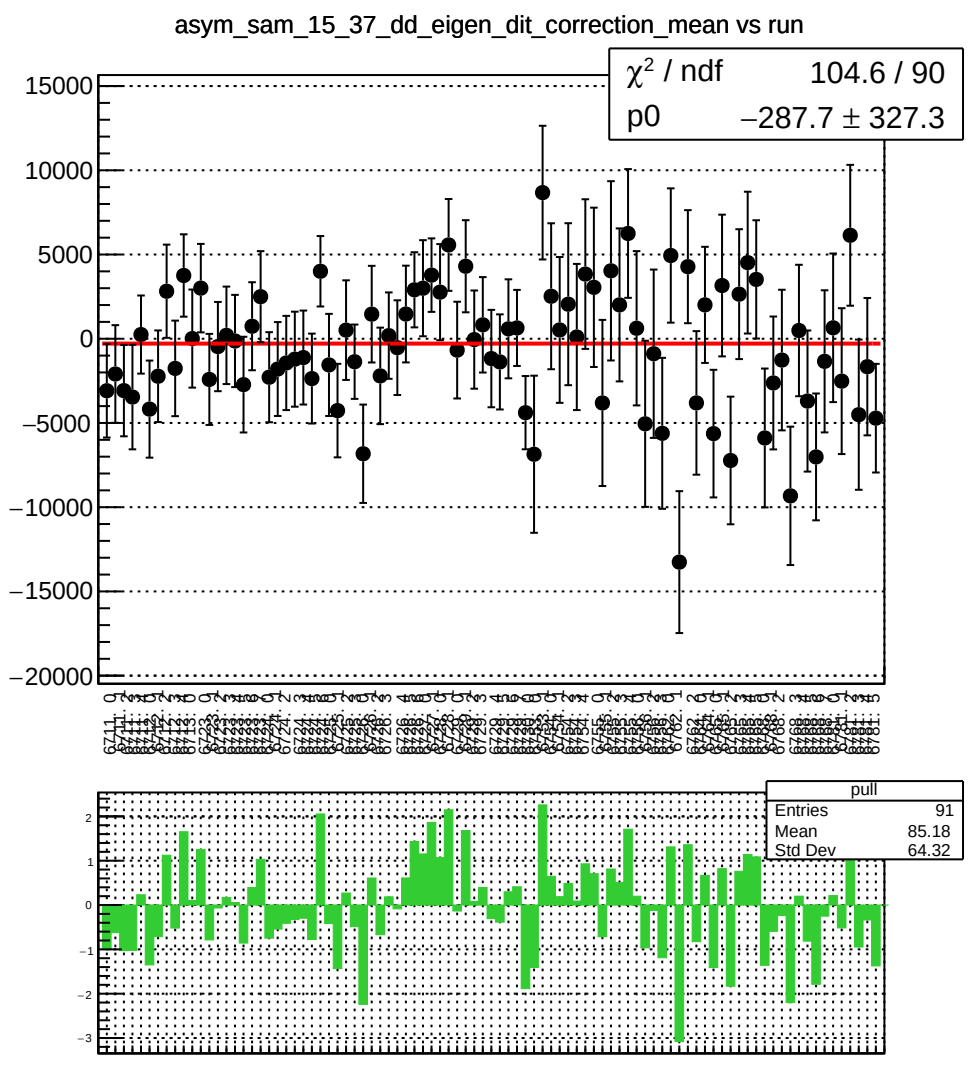

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 104.6 / 90
p0 −287.7 ± 327.3
pull
Entries 91
Mean 85.18
Std Dev 64.32

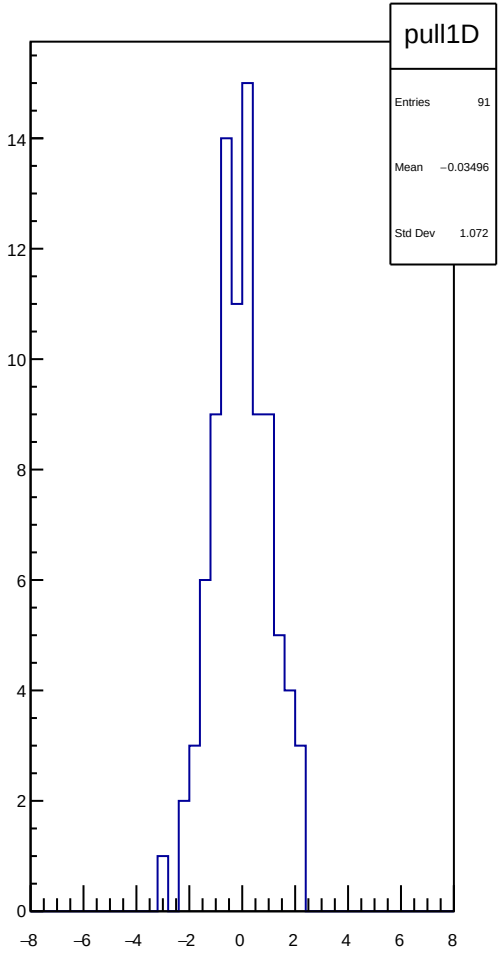

pull1D
Entries 91
Mean −0.03496
Std Dev 1.072

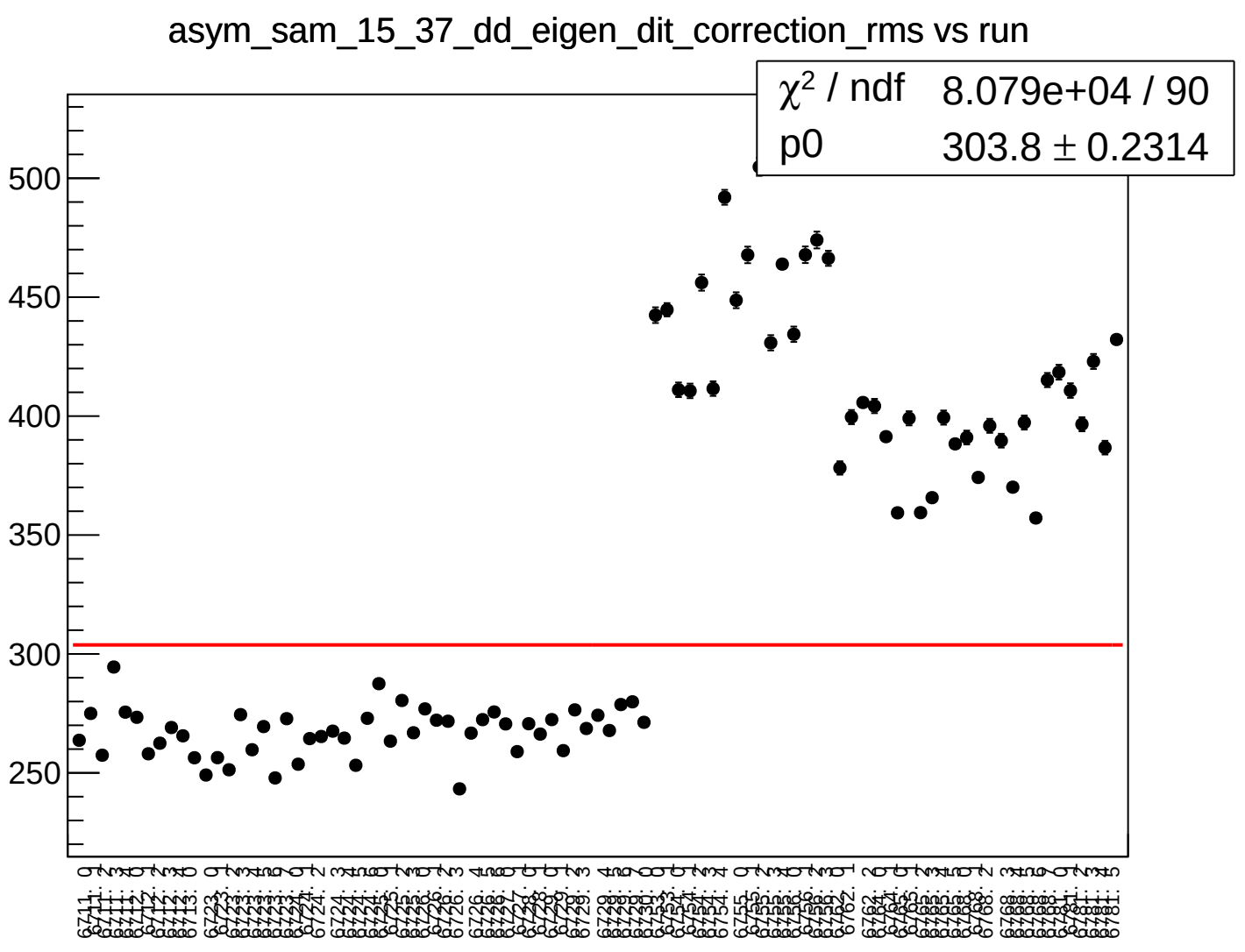

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 8.079e+04 / 90
p0 303.8 ± 0.2314
500
450
400
350
300
250

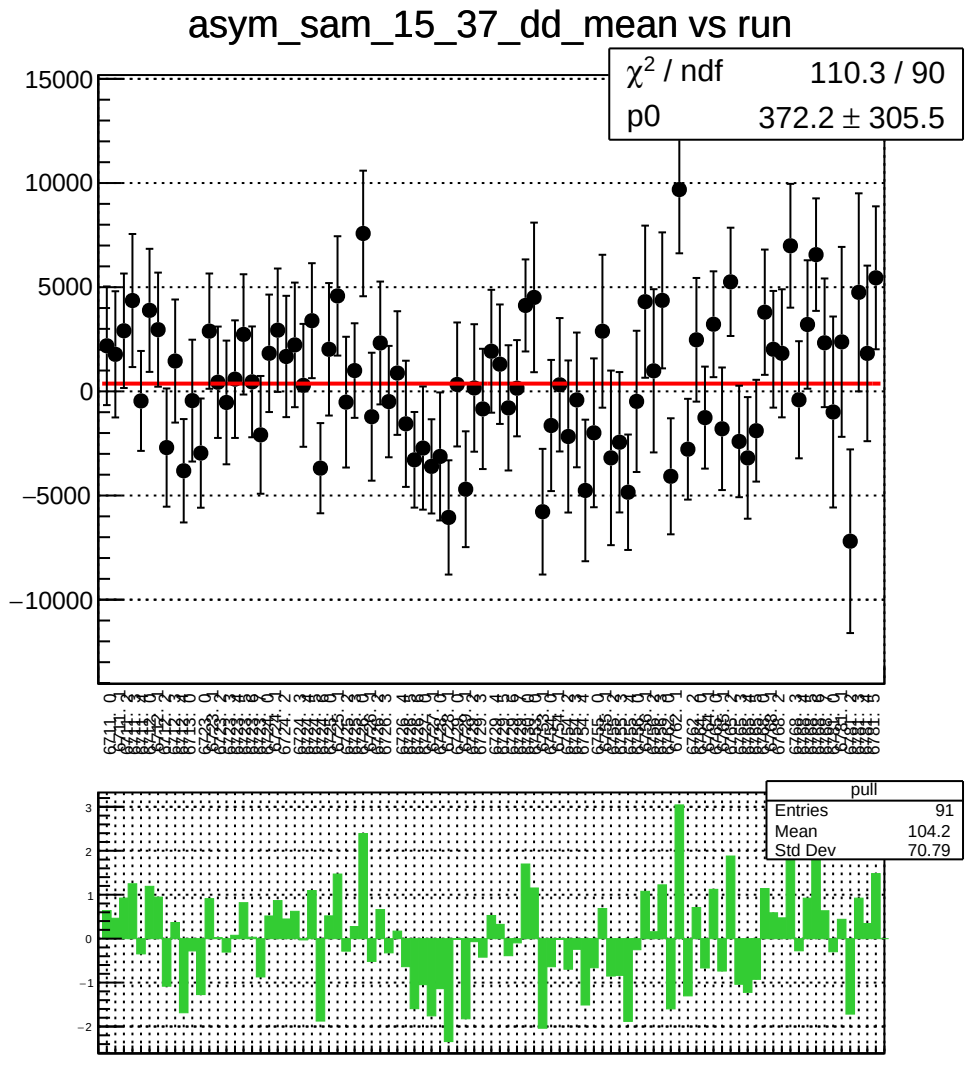

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 109.3 / 90
p0 73.54 ± 58.61
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 111.8
Std Dev 0
pull1D
Entries 91
Mean −0.03935
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

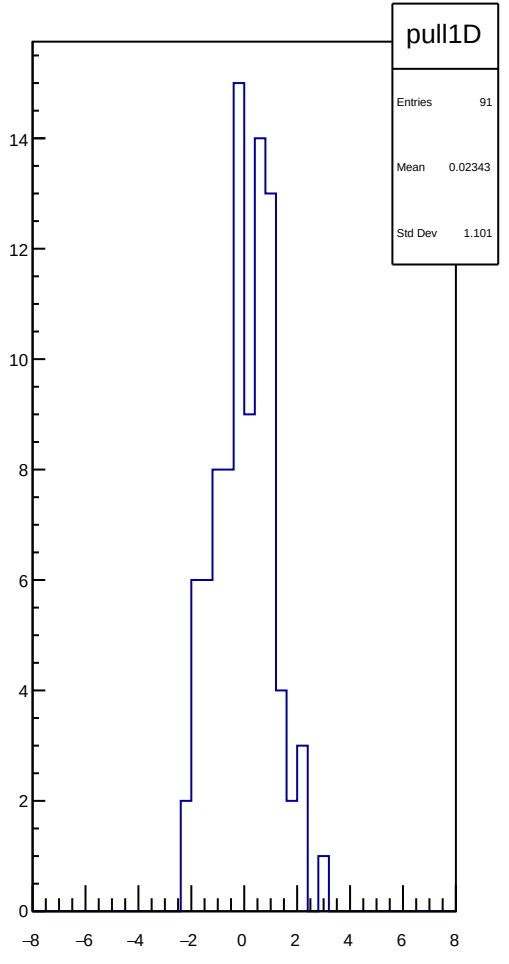

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.82e+05 / 90
p0 51.13 ± 0.04144
140
120
100
80
60
40

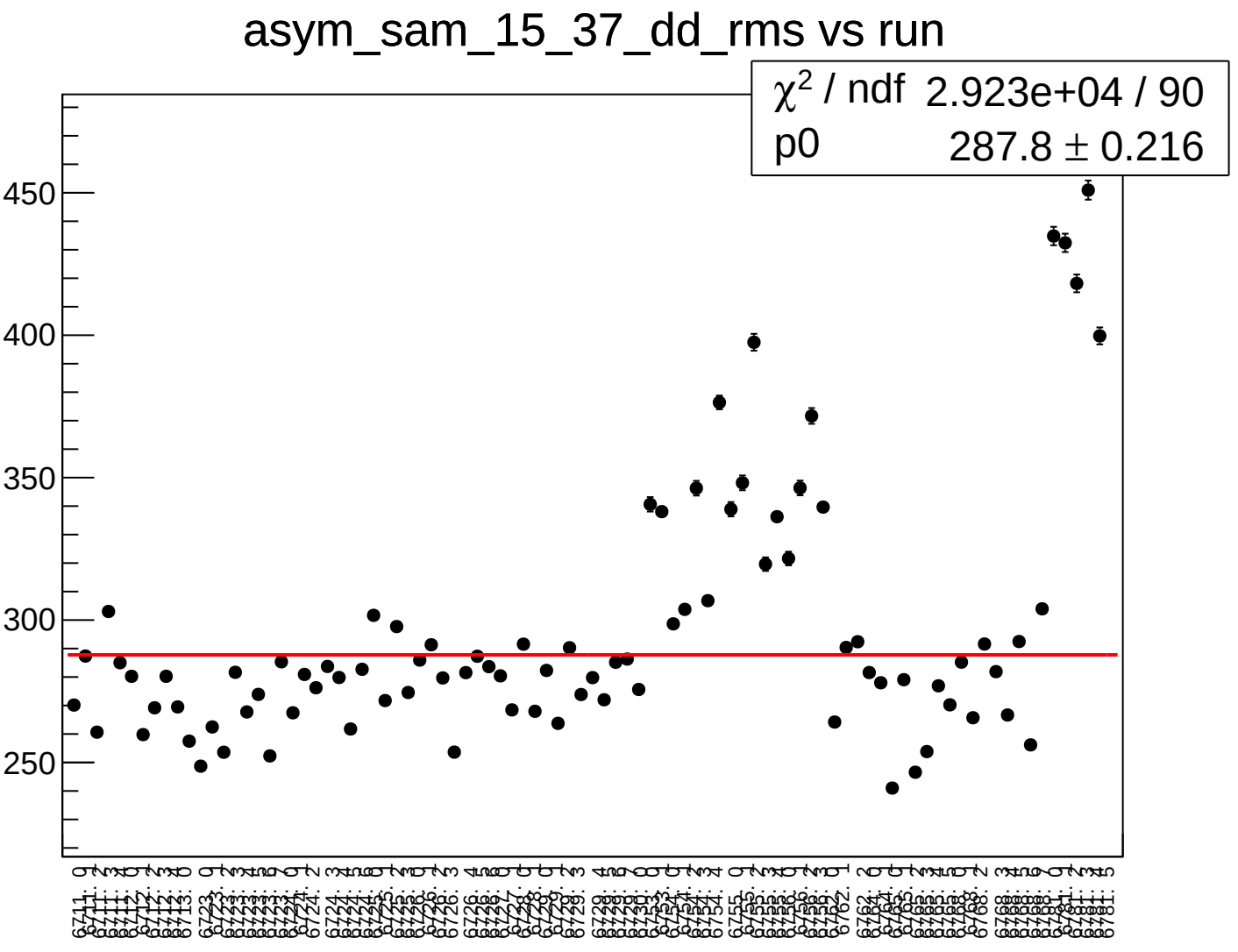

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 104.6 / 90
p0 −287.7 ± 327.3
pull
Entries 91
Mean 85.18
Std Dev 64.32

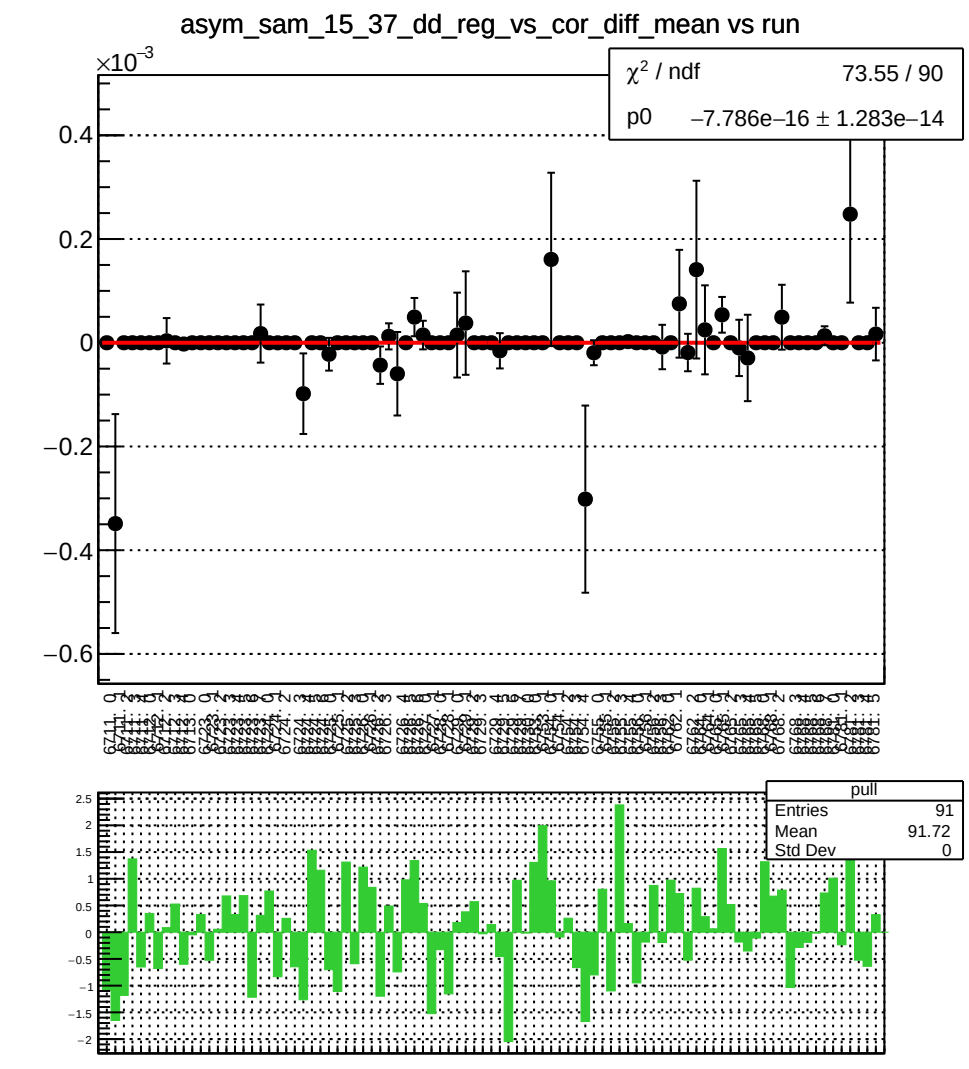

pull1D
Entries 91
Mean −0.03496
Std Dev 1.072

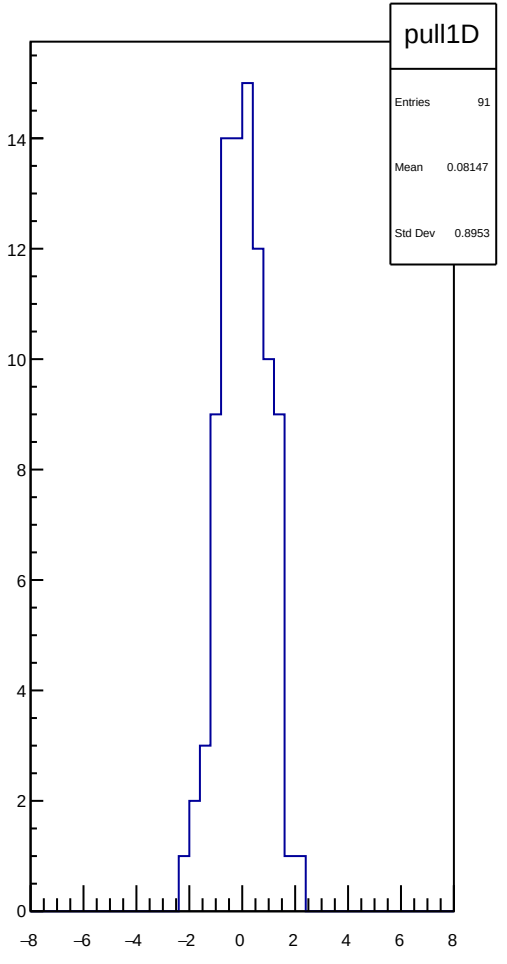

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 8.079e+04 / 90
p0 303.8 ± 0.2314
500
450
400
350
300
250

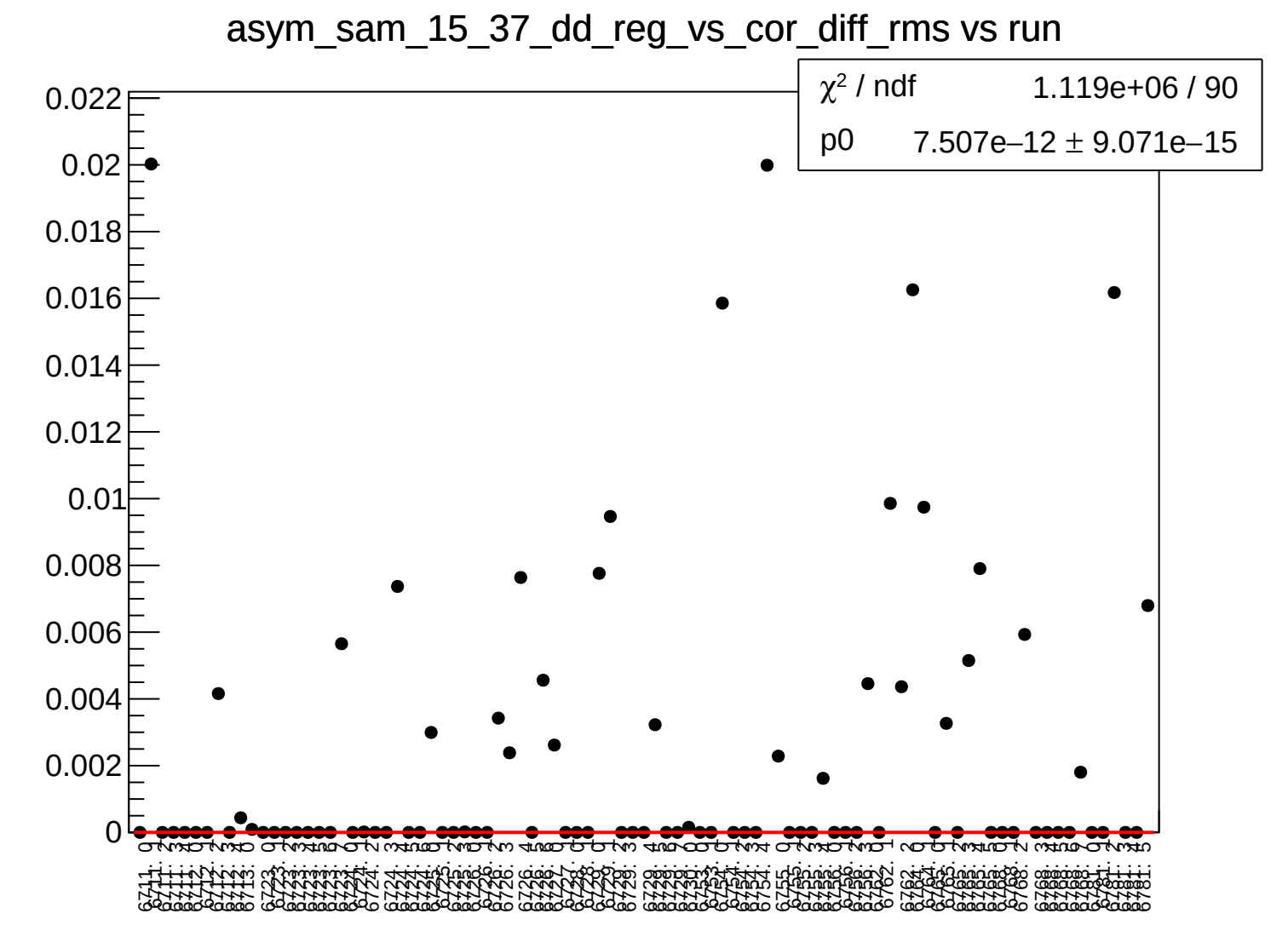

asym_sam_15_37_dd_mean vs run
χ² / ndf 110.3 / 90
p0 372.2 ± 305.5
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 104.2
Std Dev 70.79
3
2
1
0
−1
−2

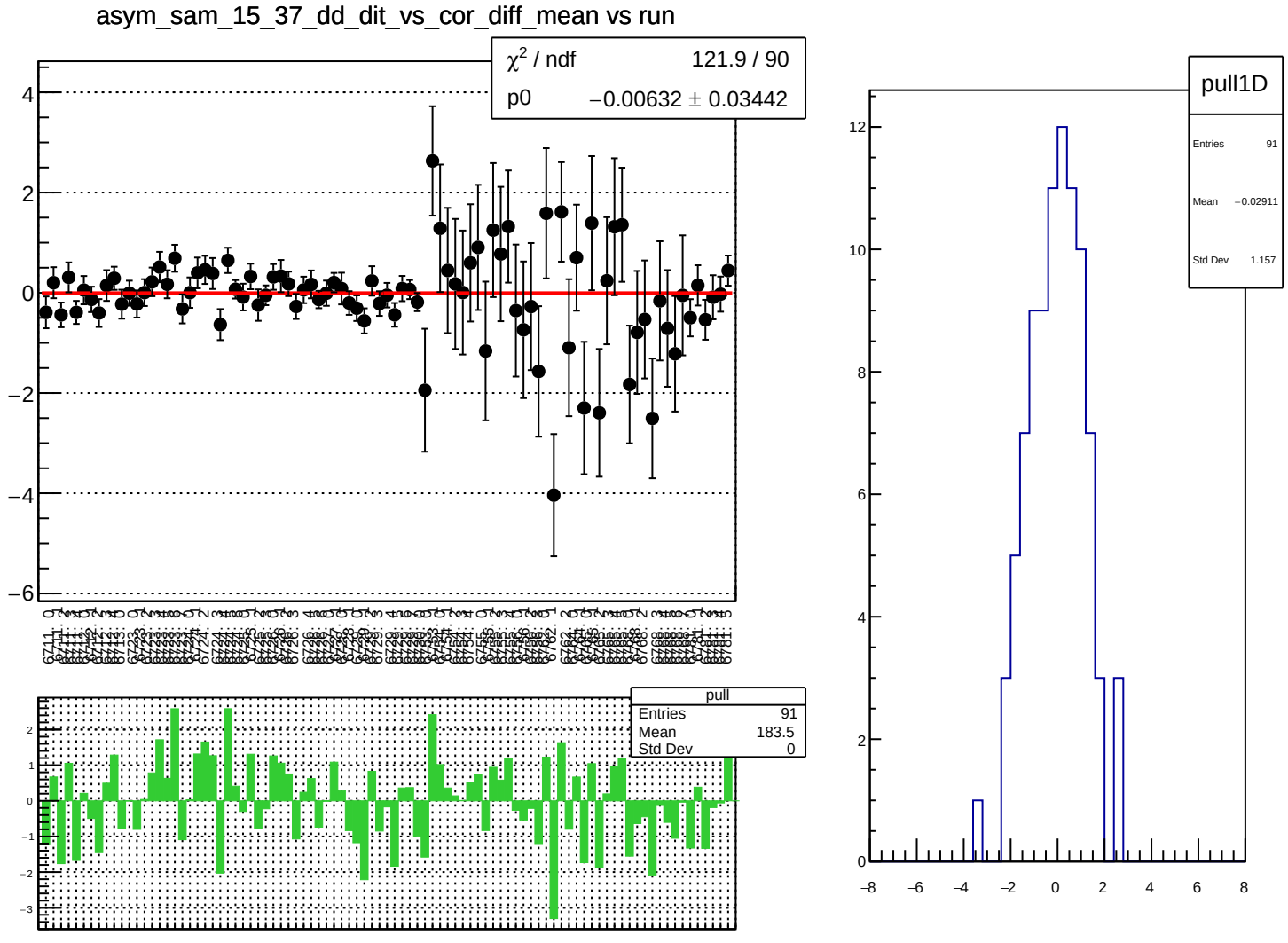

pull1D
Entries 91
Mean 0.02343
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

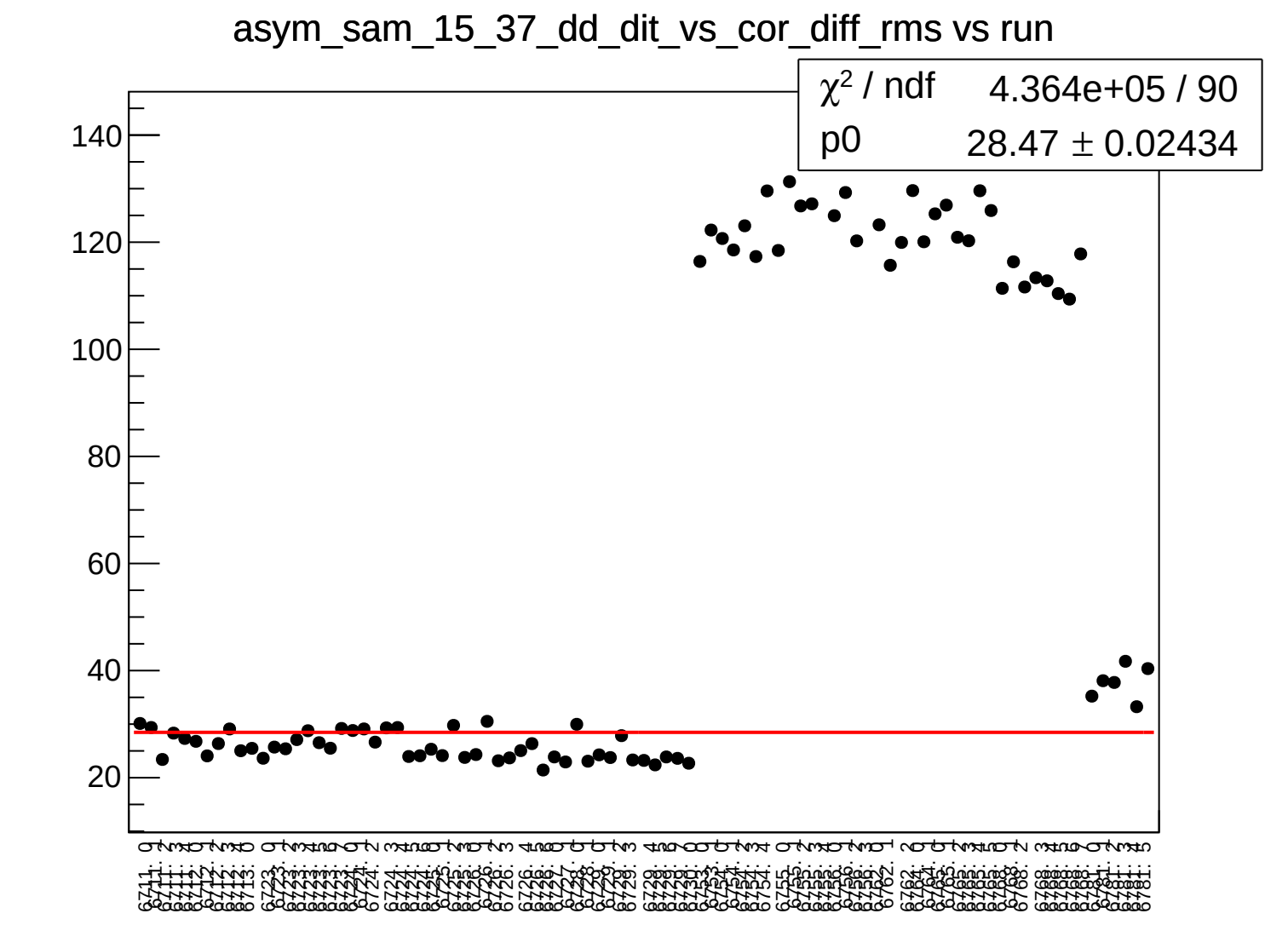

asym_sam_15_37_dd_rms vs run
χ² / ndf 2.923e+04 / 90
p0 287.8 ± 0.216
450
400
350
300
250

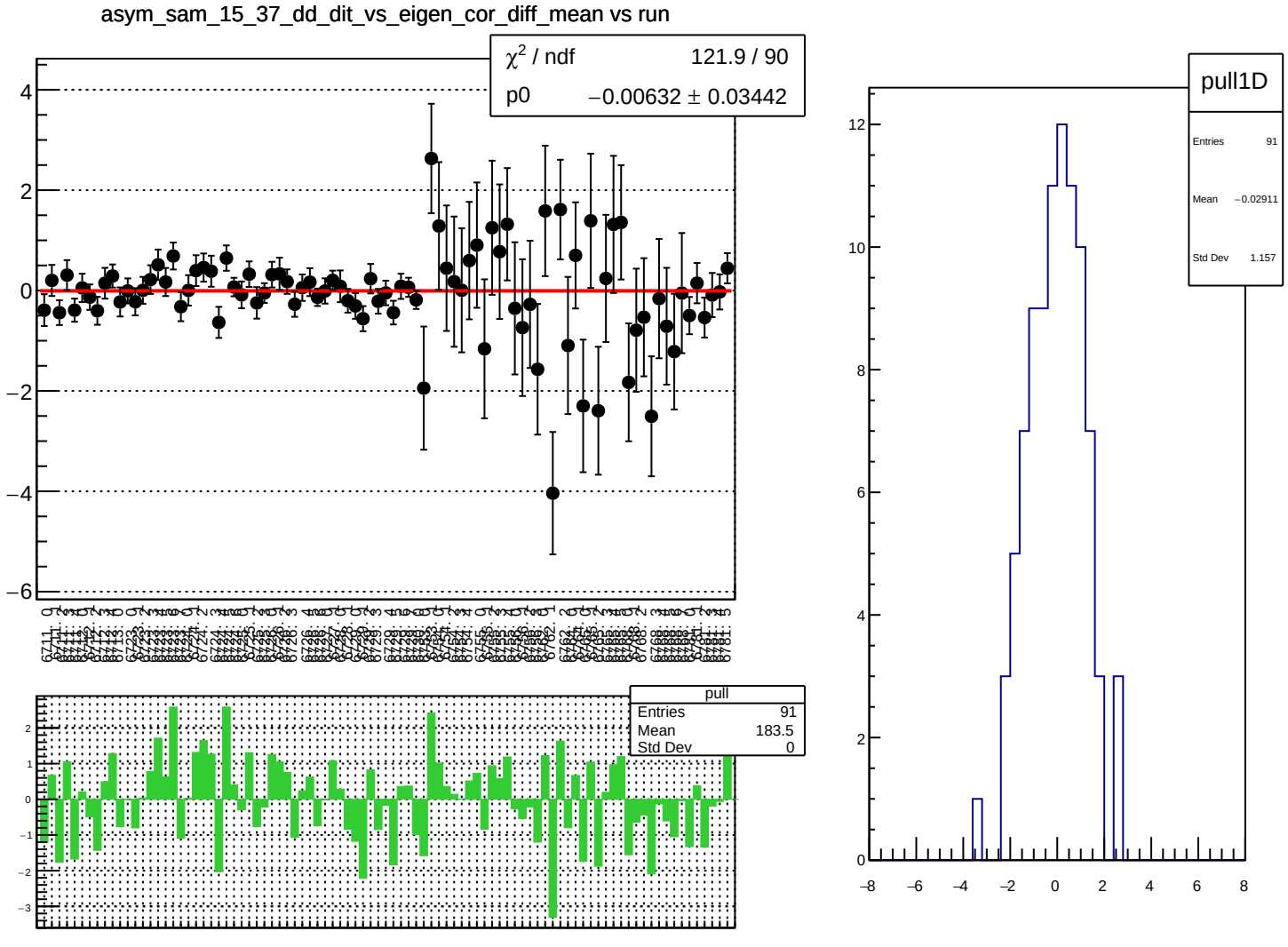

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 73.55 / 90
p0 −7.786e−16 ± 1.283e−14
pull
Entries 91
Mean 91.72
Std Dev 0

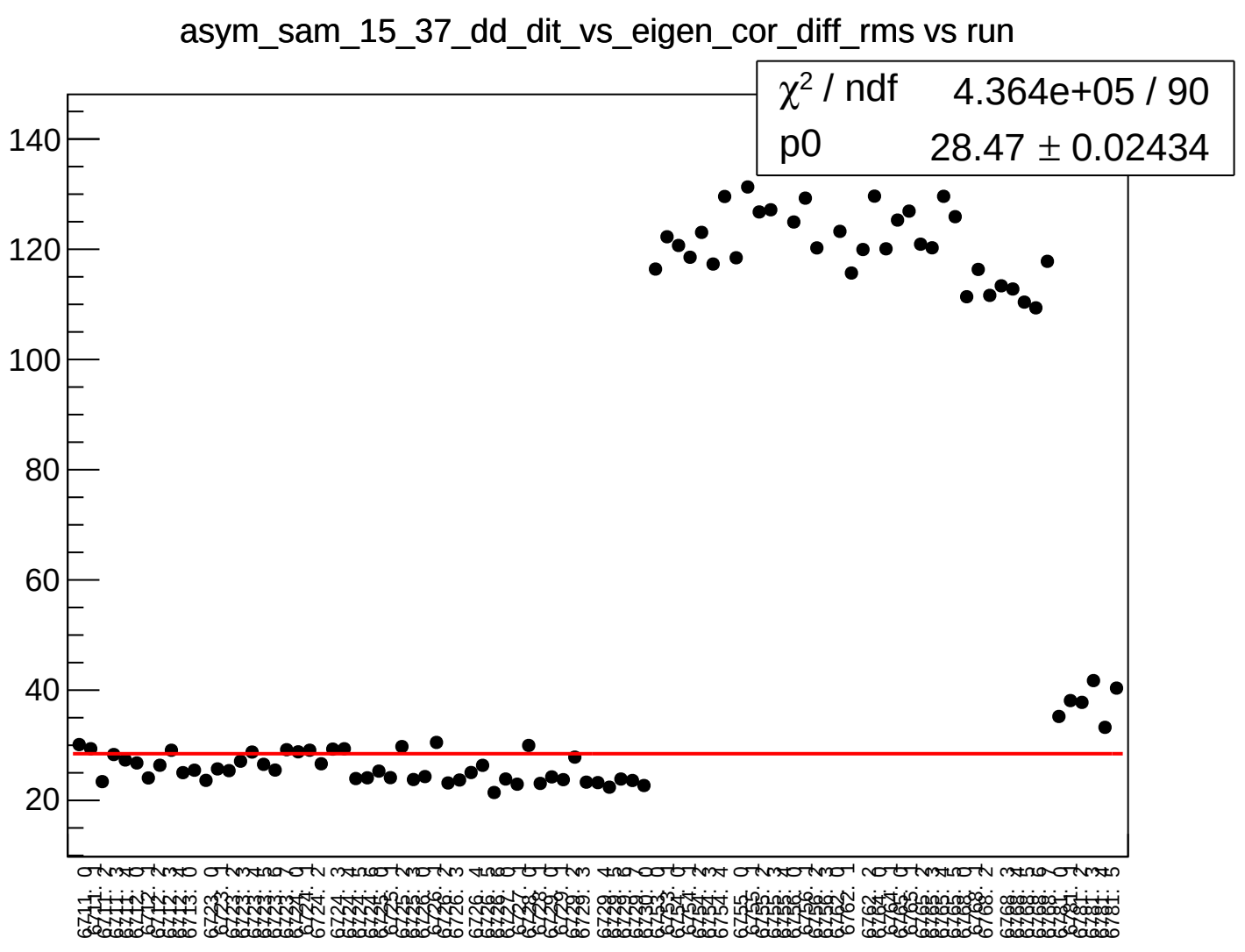

pull1D
Entries 91
Mean 0.08147
Std Dev 0.8953

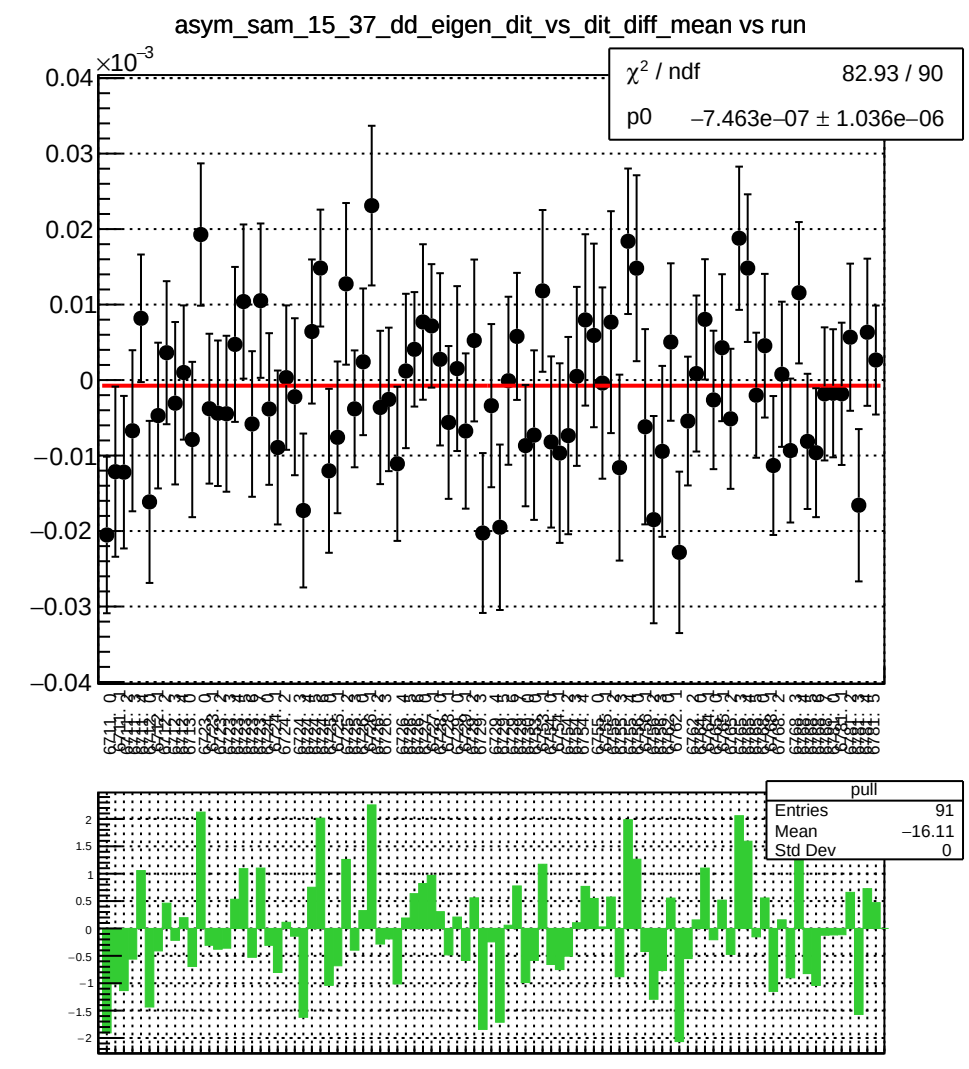

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.119e+06 / 90
p0 7.507e−12 ± 9.071e−15
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

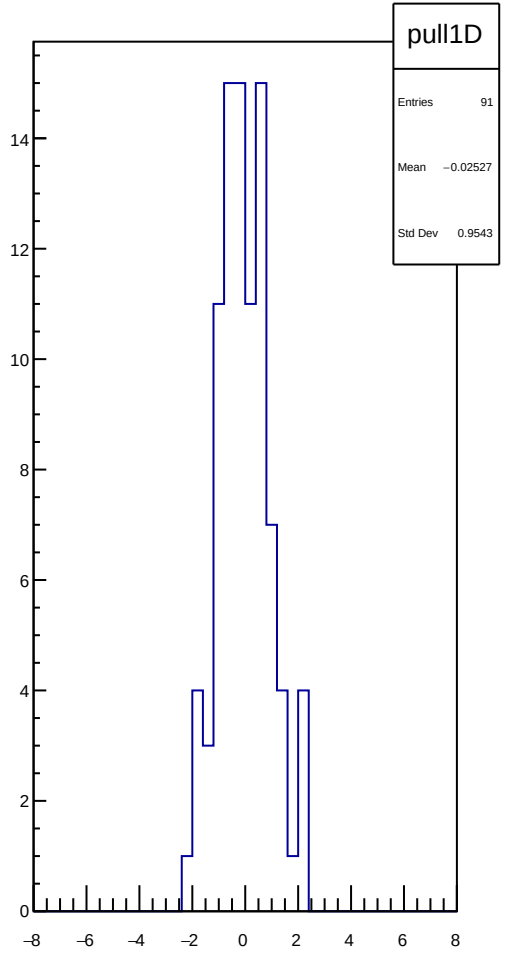

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 121.9 / 90
p0 −0.00632 ± 0.03442
pull
Entries 91
Mean 183.5
Std Dev 0
pull1D
Entries 91
Mean −0.02911
Std Dev 1.157

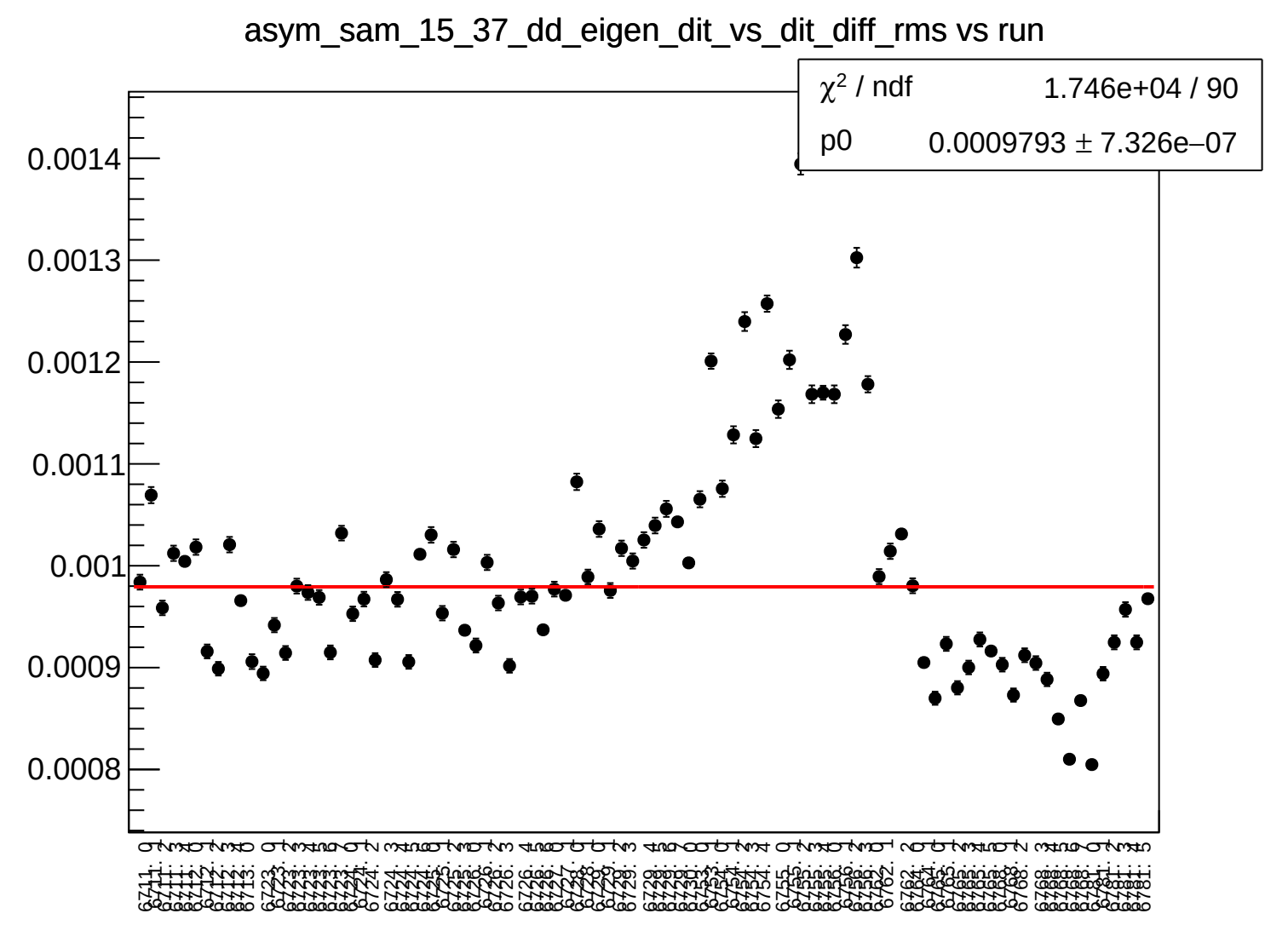

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.364e+05 / 90
p0 28.47 ± 0.02434
140
120
100
80
60
40
20

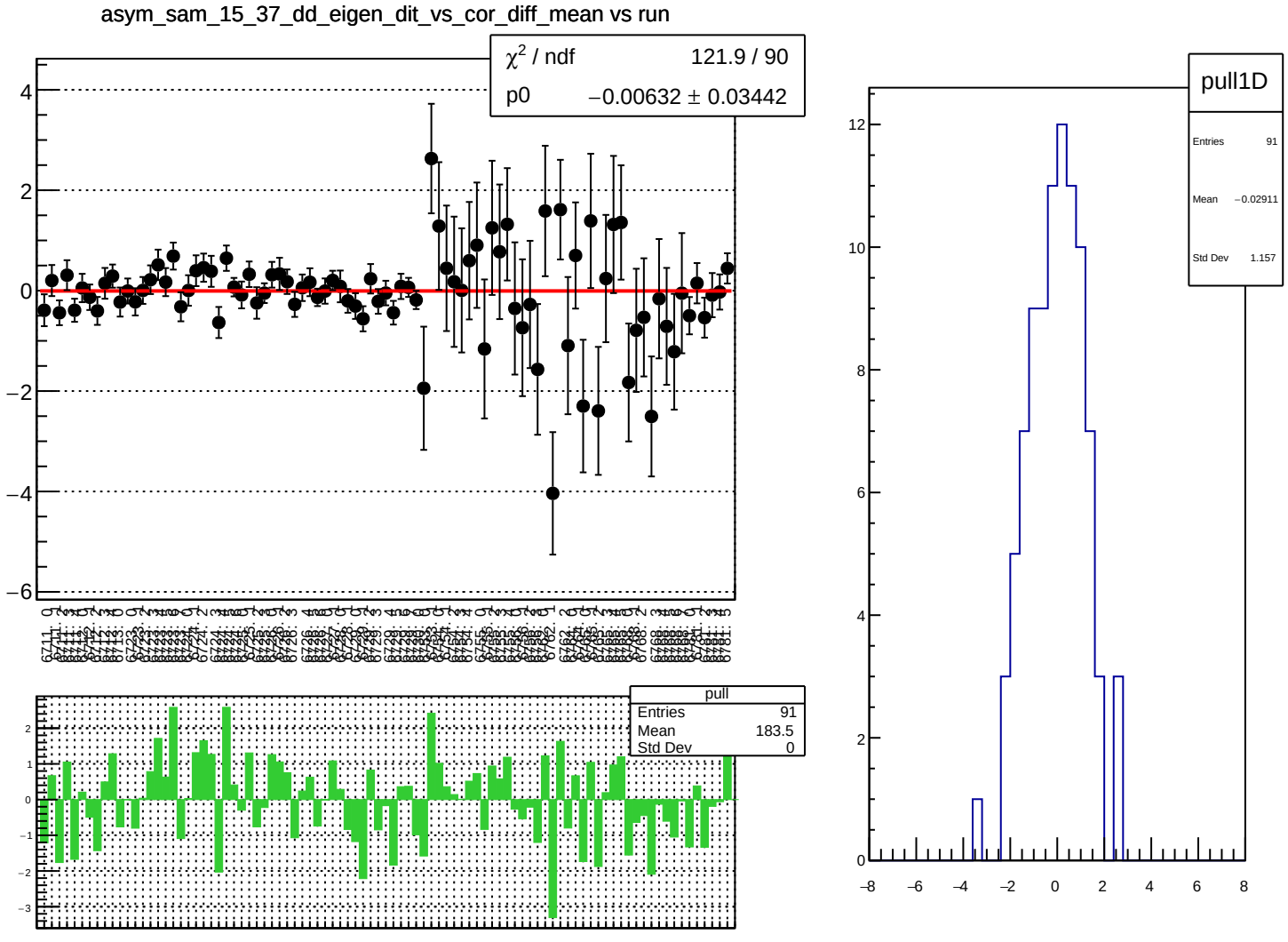

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121.9 / 90
p0 −0.00632 ± 0.03442
pull
Entries 91
Mean 183.5
Std Dev 0
pull1D
Entries 91
Mean −0.02911
Std Dev 1.157

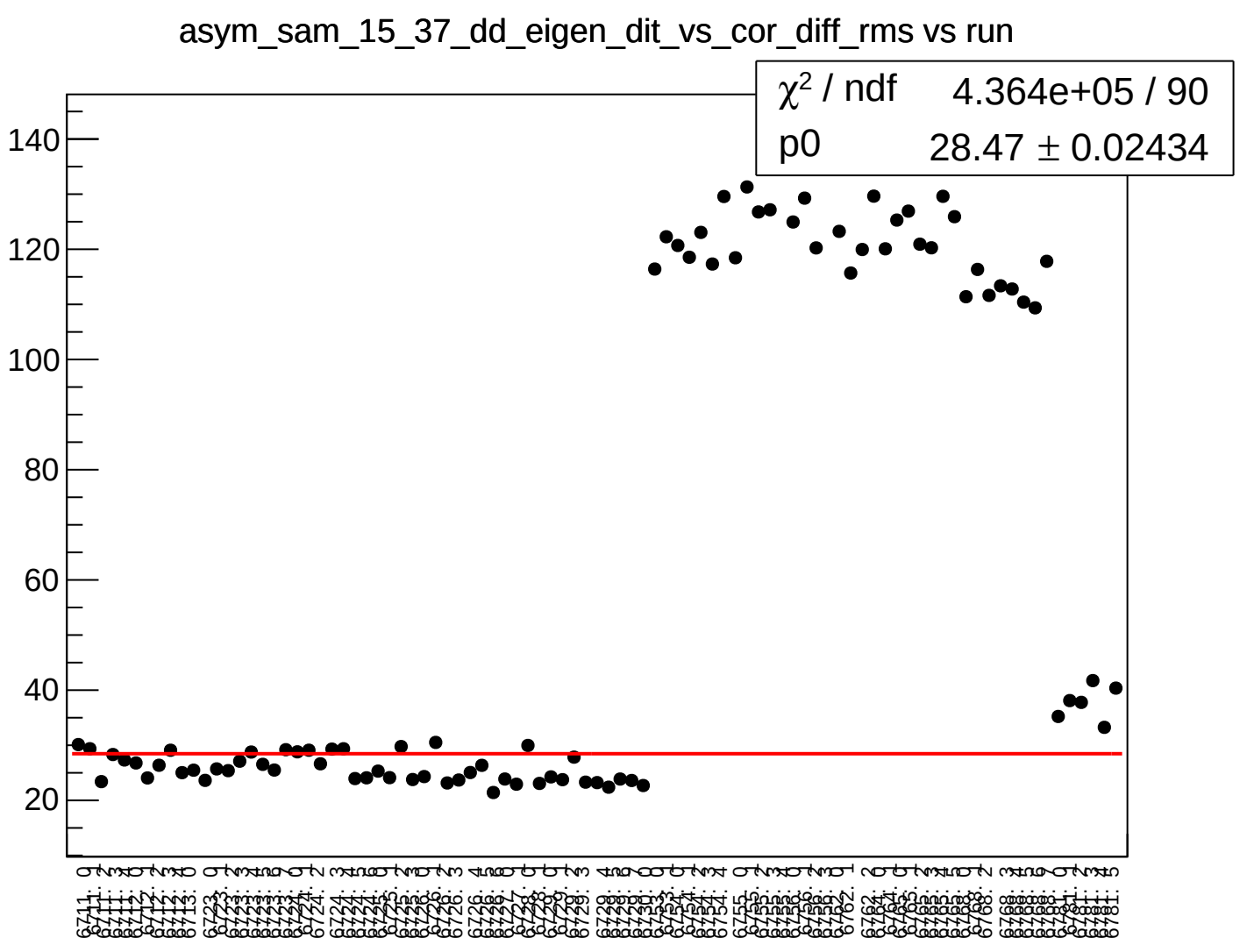

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.364e+05 / 90
p0 28.47 ± 0.02434
140
120
100
80
60
40
20

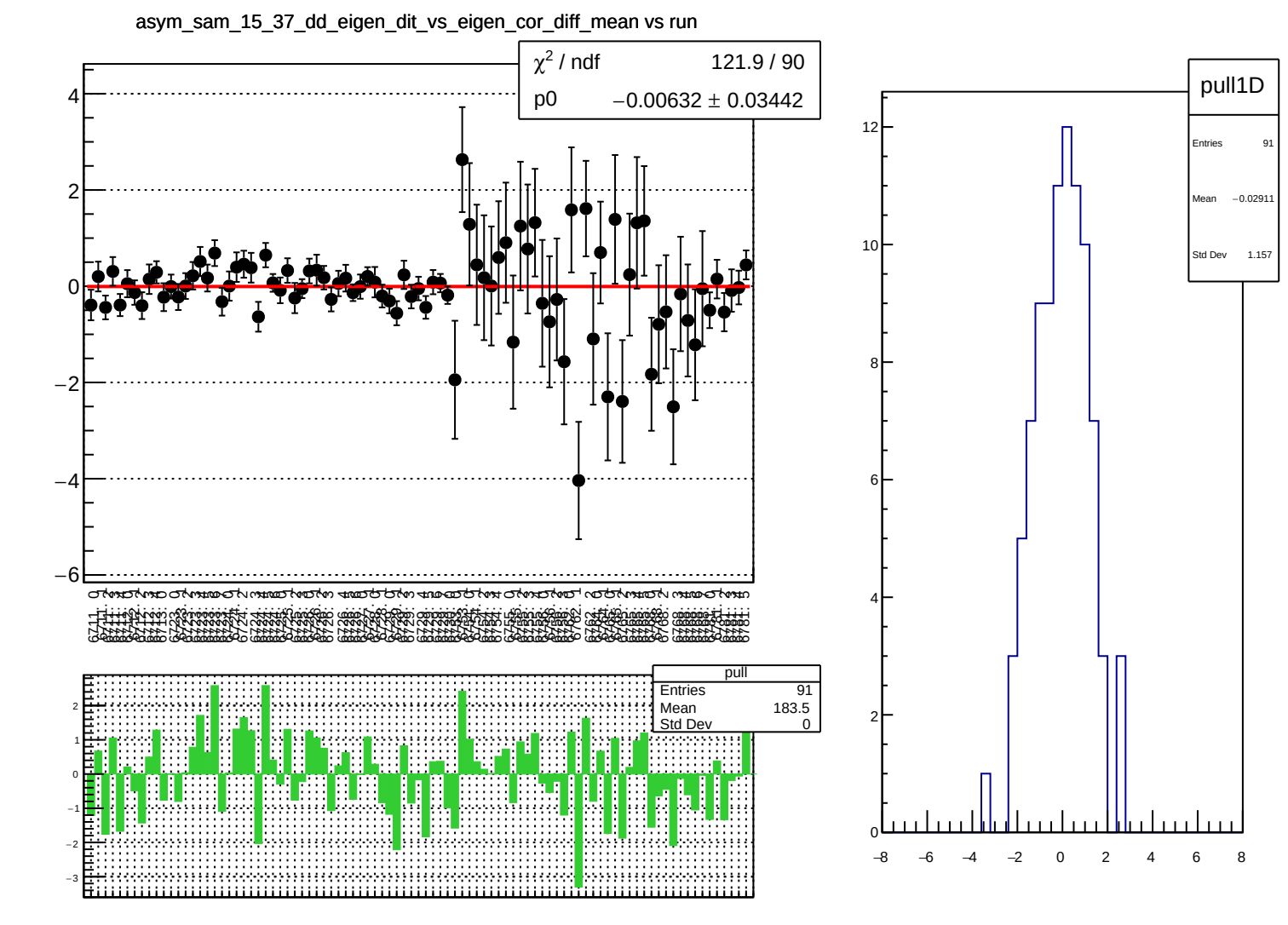

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.93 / 90
p0 −7.463e−07 ± 1.036e−06
pull
Entries 91
Mean −16.11
Std Dev 0

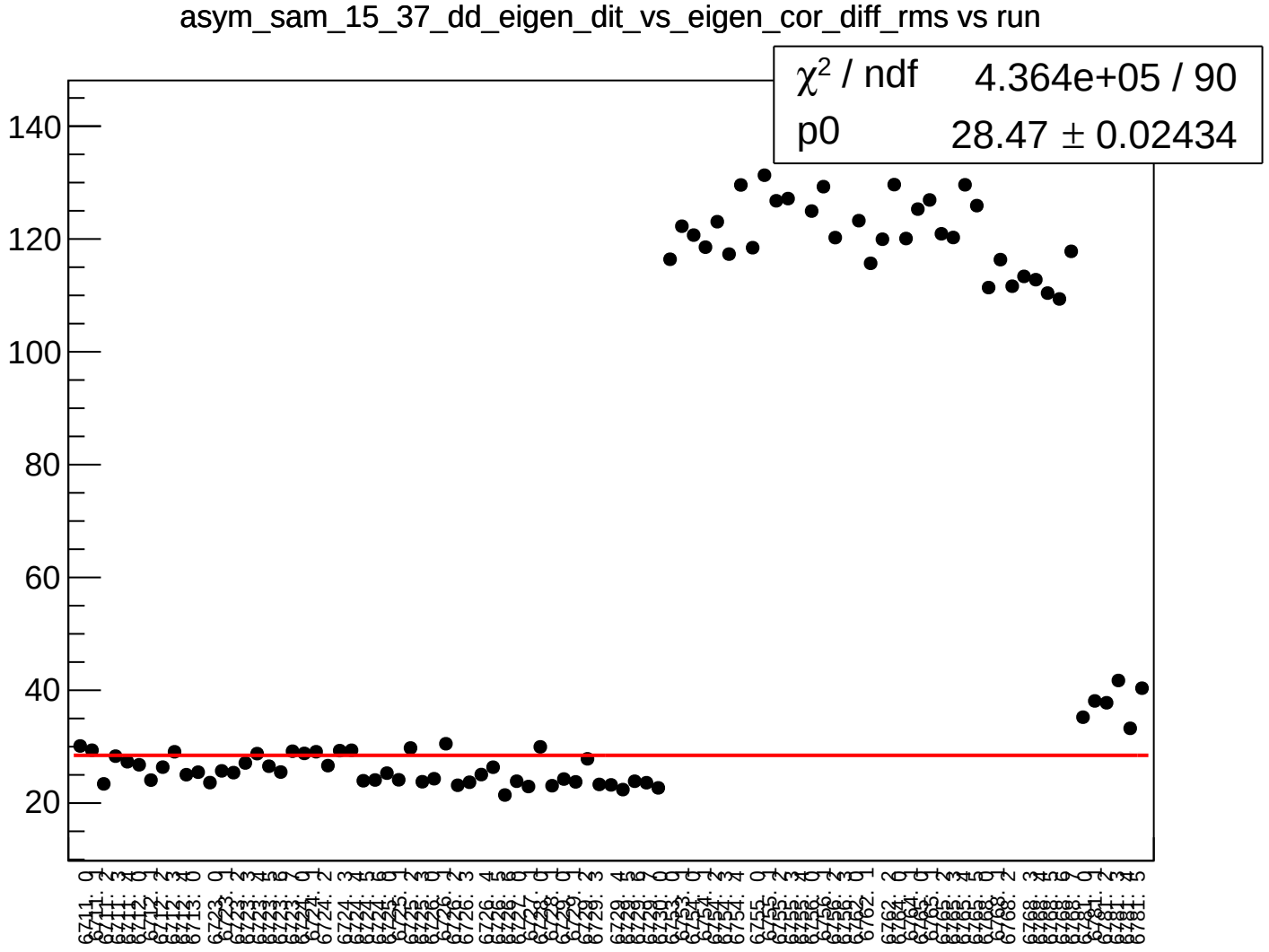

pull1D
Entries 91
Mean −0.02527
Std Dev 0.9543

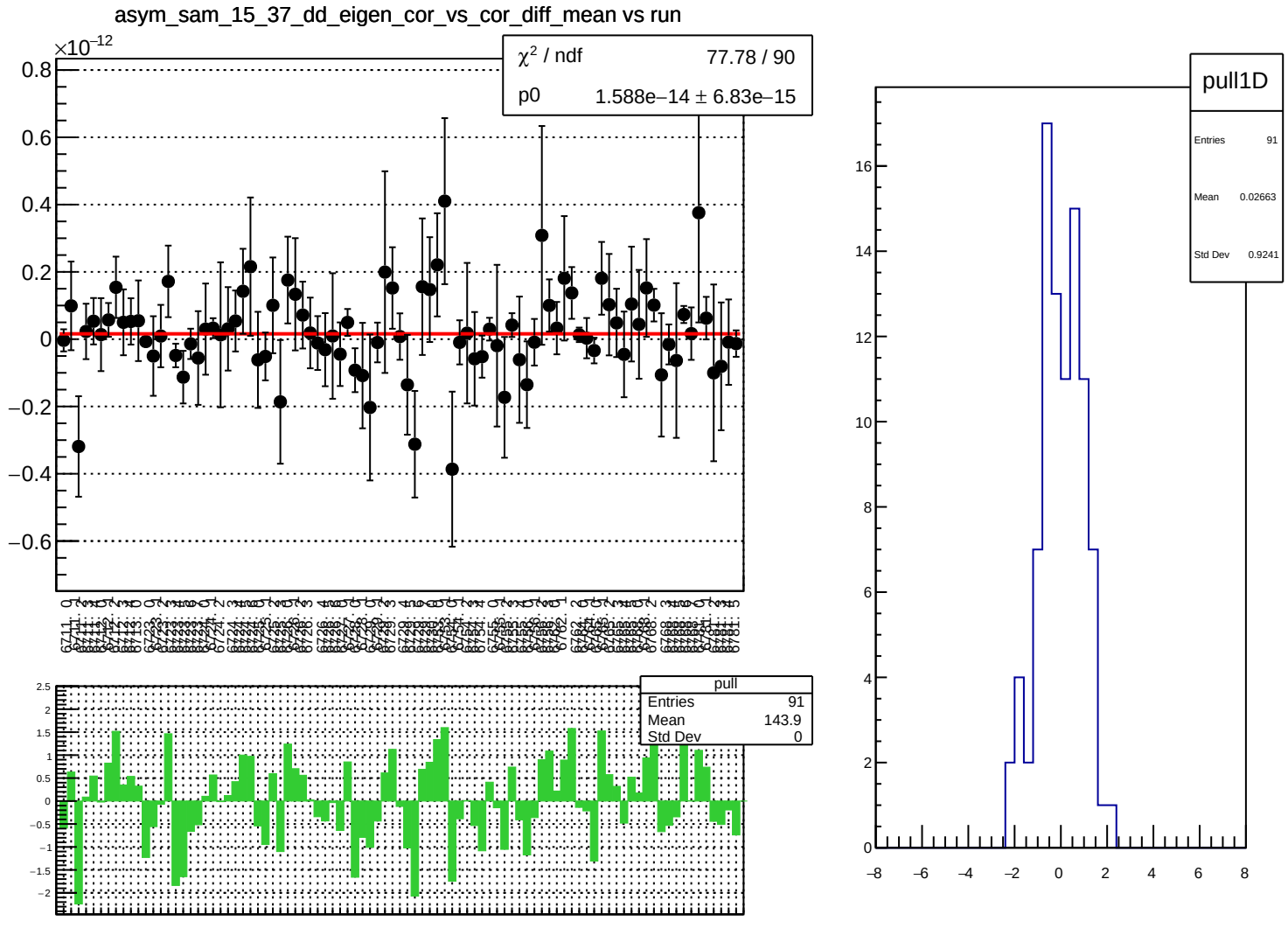

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.746e+04 / 90
p0 0.0009793 ± 7.326e−07
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008

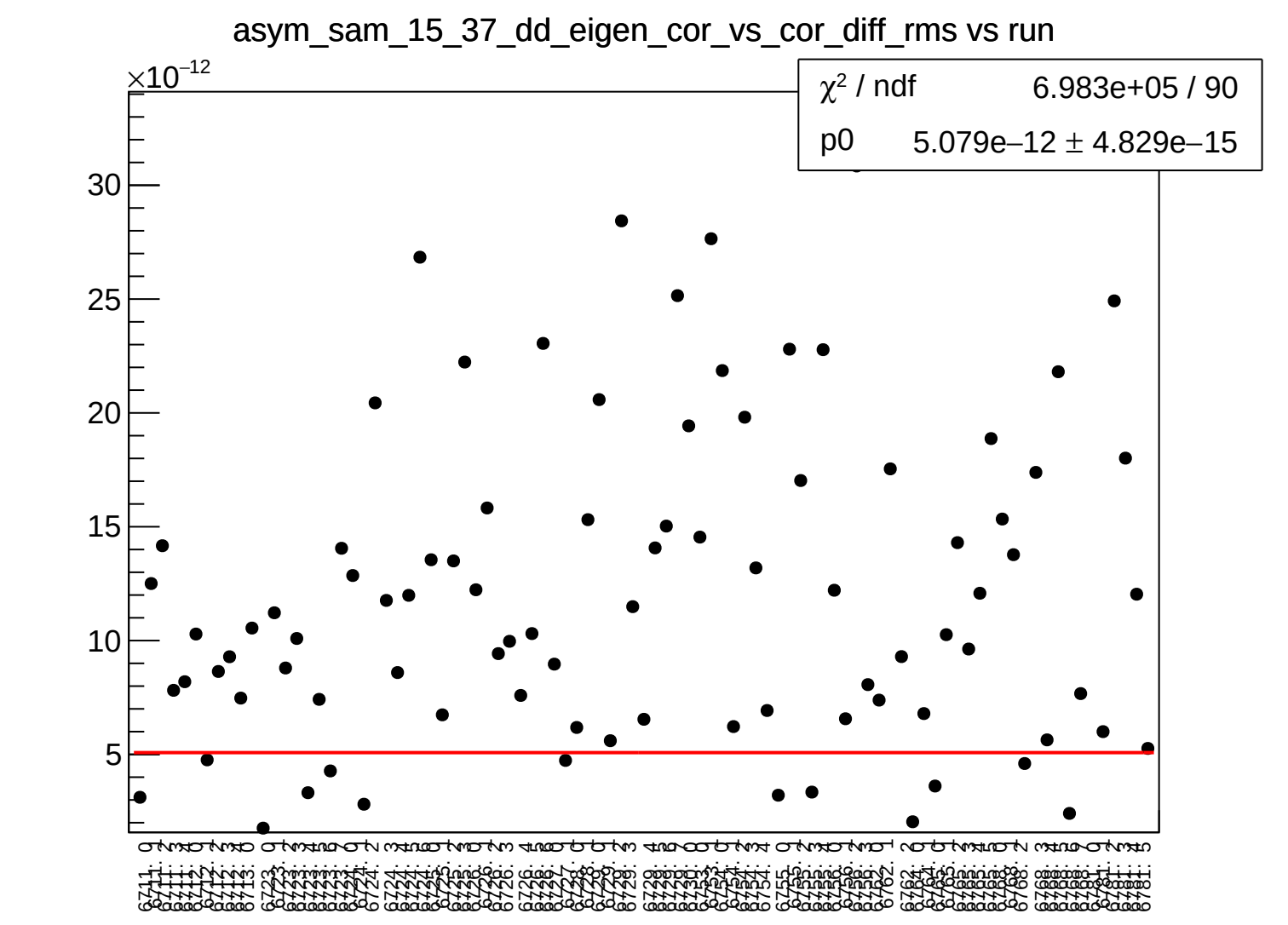

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 121.9 / 90
p0 −0.00632 ± 0.03442
pull
Entries 91
Mean 183.5
Std Dev 0
pull1D
Entries 91
Mean −0.02911
Std Dev 1.157

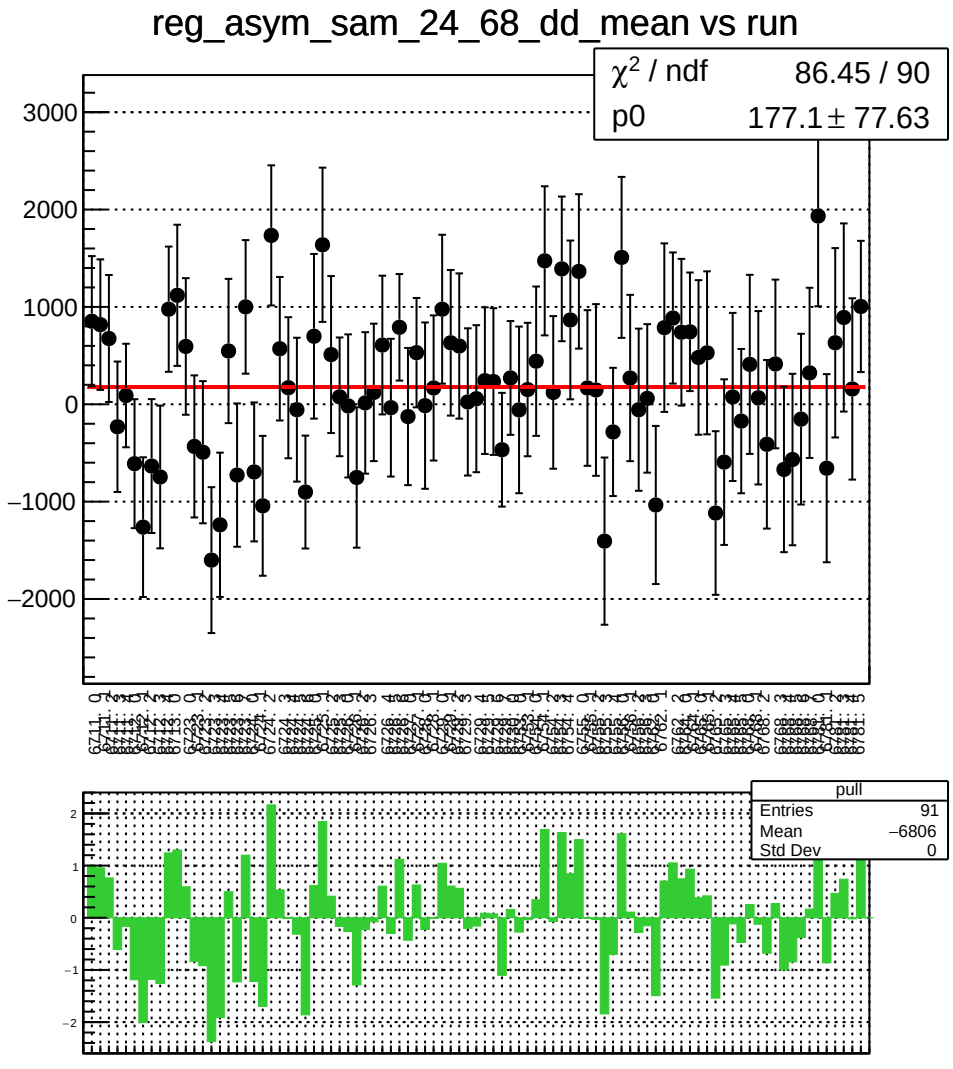

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.364e+05 / 90
p0 28.47 ± 0.02434
140
120
100
80
60
40
20

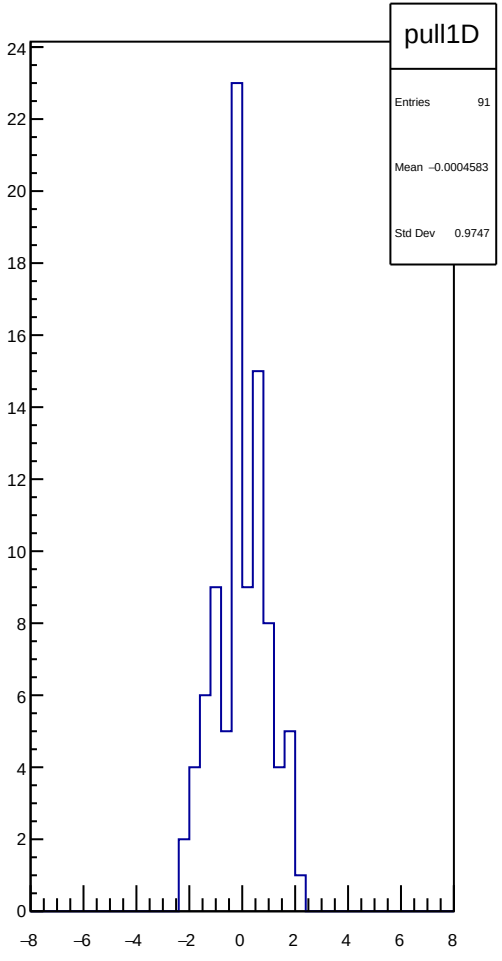

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121.9 / 90
p0 −0.00632 ± 0.03442
pull
Entries 91
Mean 183.5
Std Dev 0
pull1D
Entries 91
Mean −0.02911
Std Dev 1.157

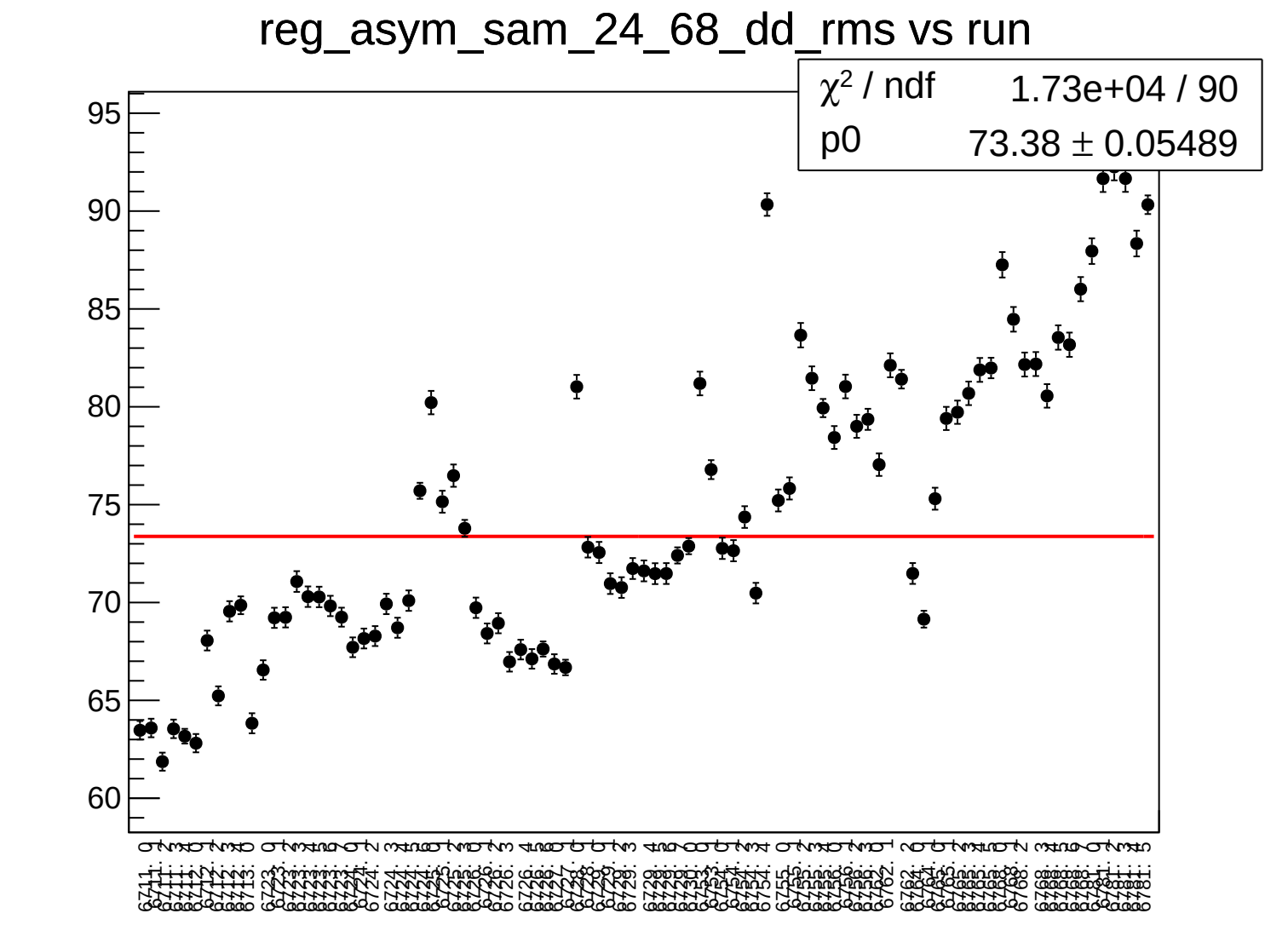

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.364e+05 / 90
p0 28.47 ± 0.02434
140
120
100
80
60
40
20

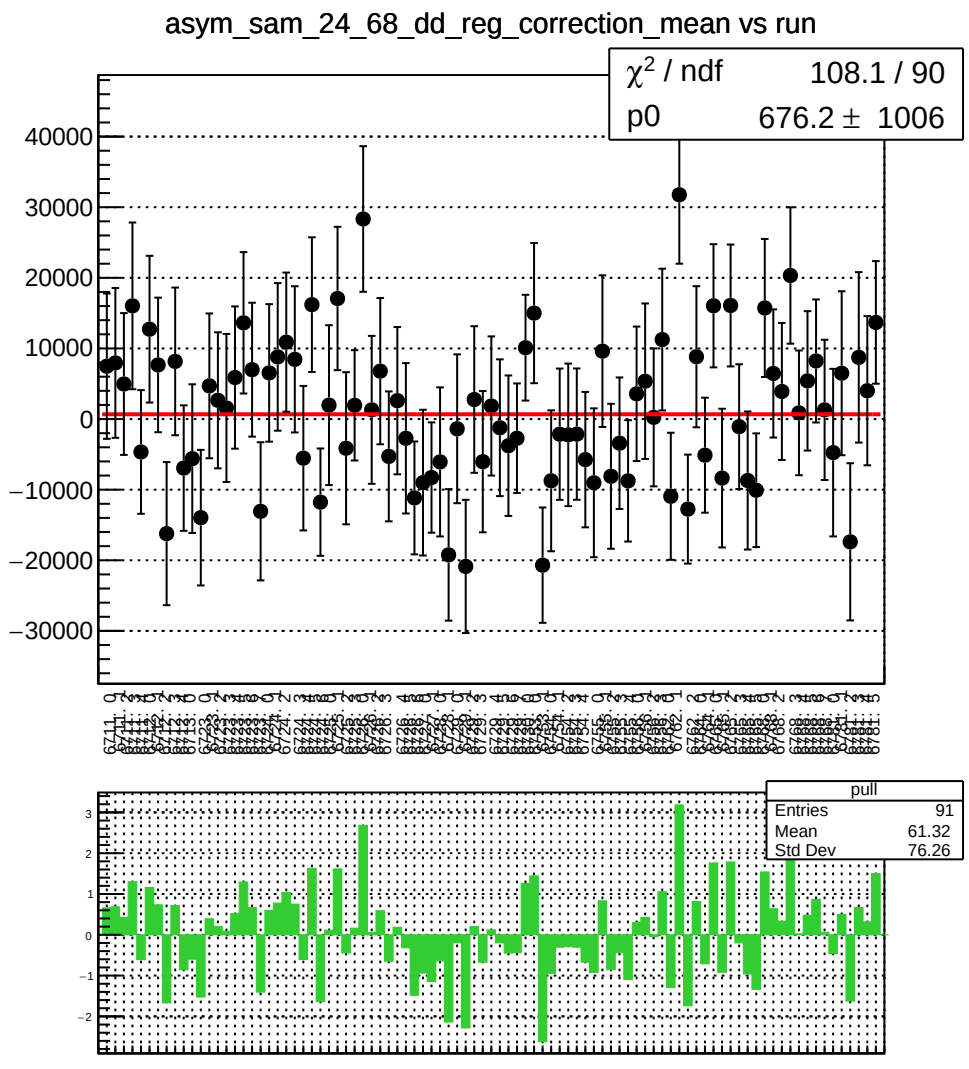

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.78 / 90
p0 1.588e−14 ± 6.83e−15
pull
Entries 91
Mean 143.9
Std Dev 0
pull1D
Entries 91
Mean 0.02663
Std Dev 0.9241

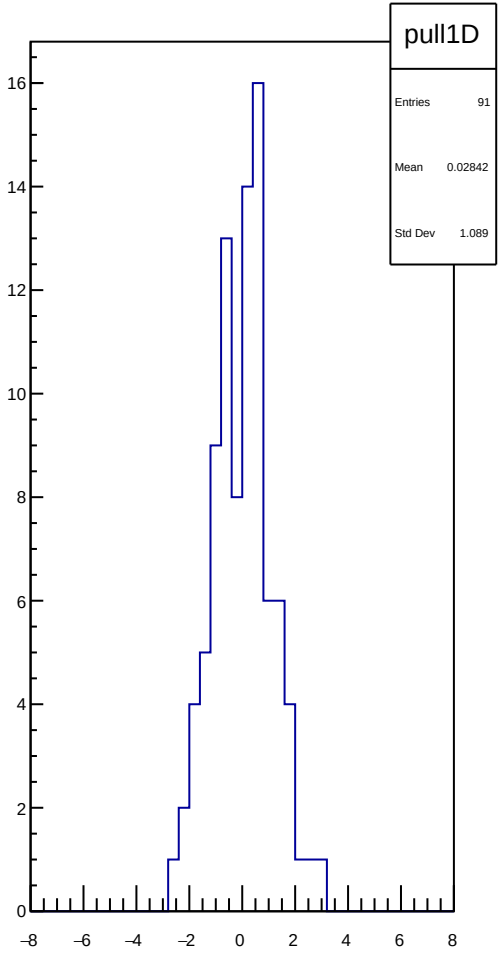

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 6.983e+05 / 90
p0 5.079e−12 ± 4.829e−15
30
25
20
15
10
5

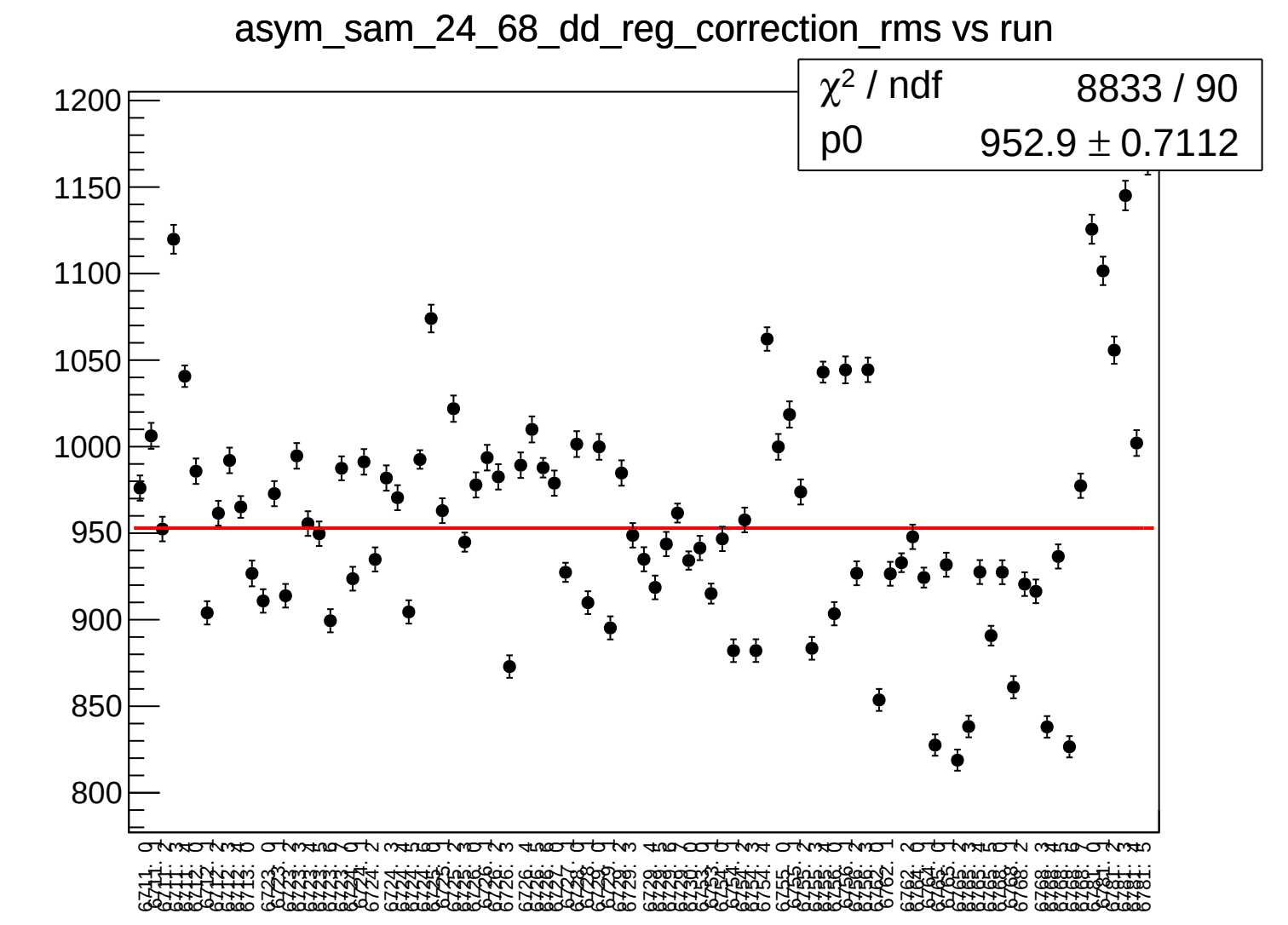

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 86.45 / 90
p0 177.1 ± 77.63
3000
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −6806
Std Dev 0
2
1
0
−1
−2

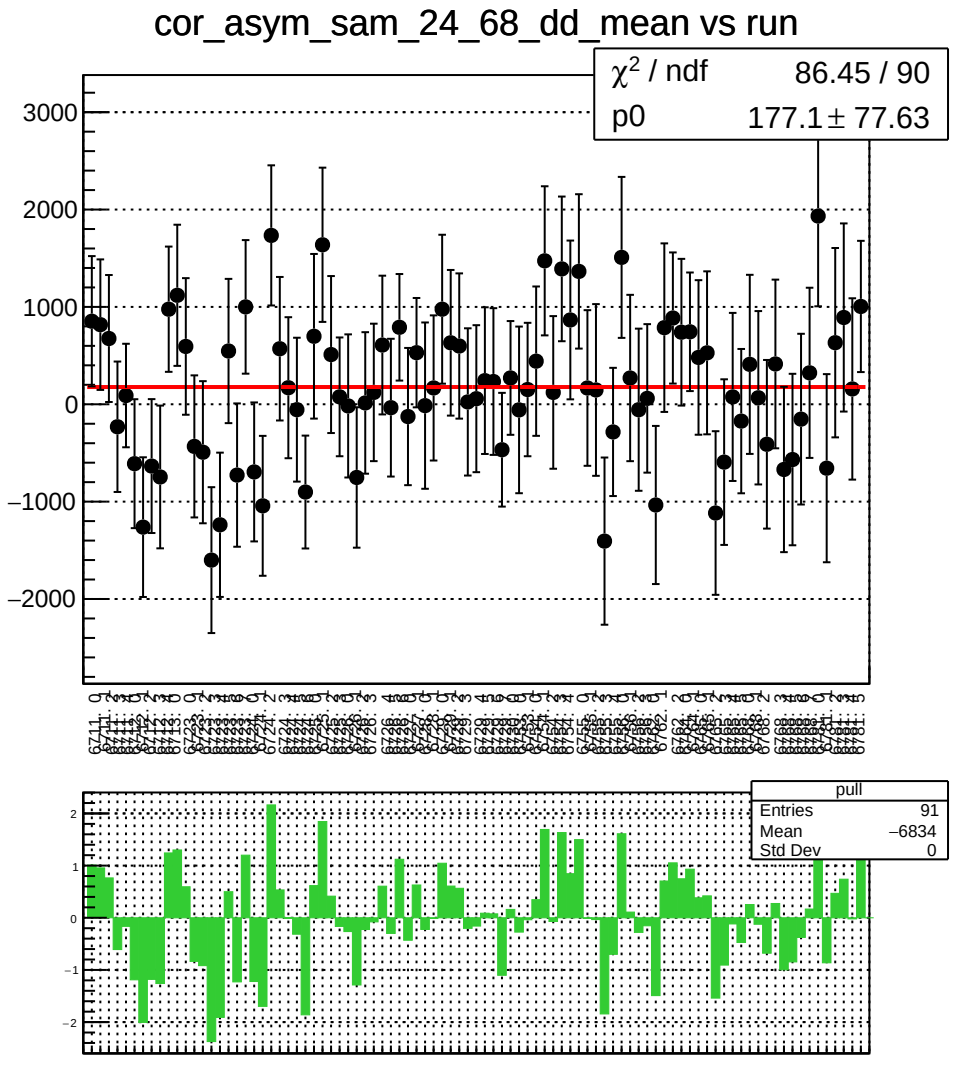

pull1D
Entries 91
Mean −0.0004583
Std Dev 0.9747
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

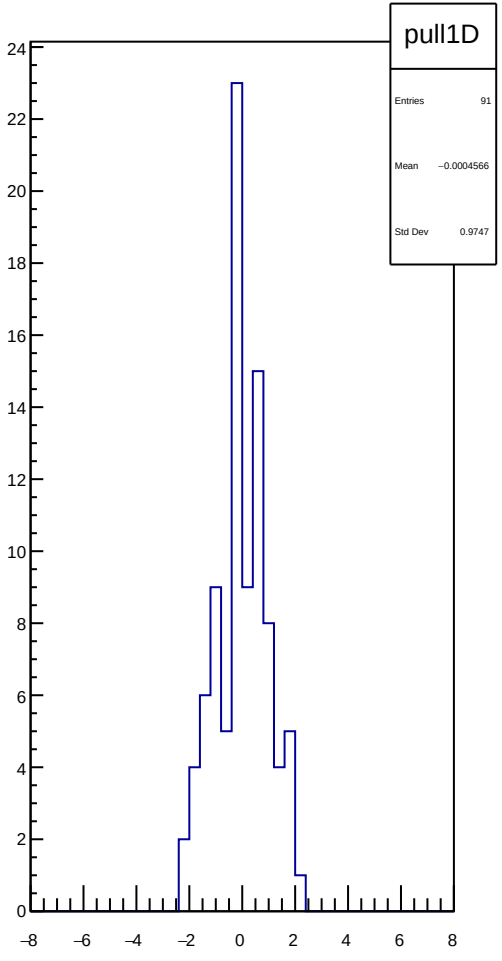

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 1.73e+04 / 90
p0 73.38 ± 0.05489
95
90
85
80
75
70
65
60

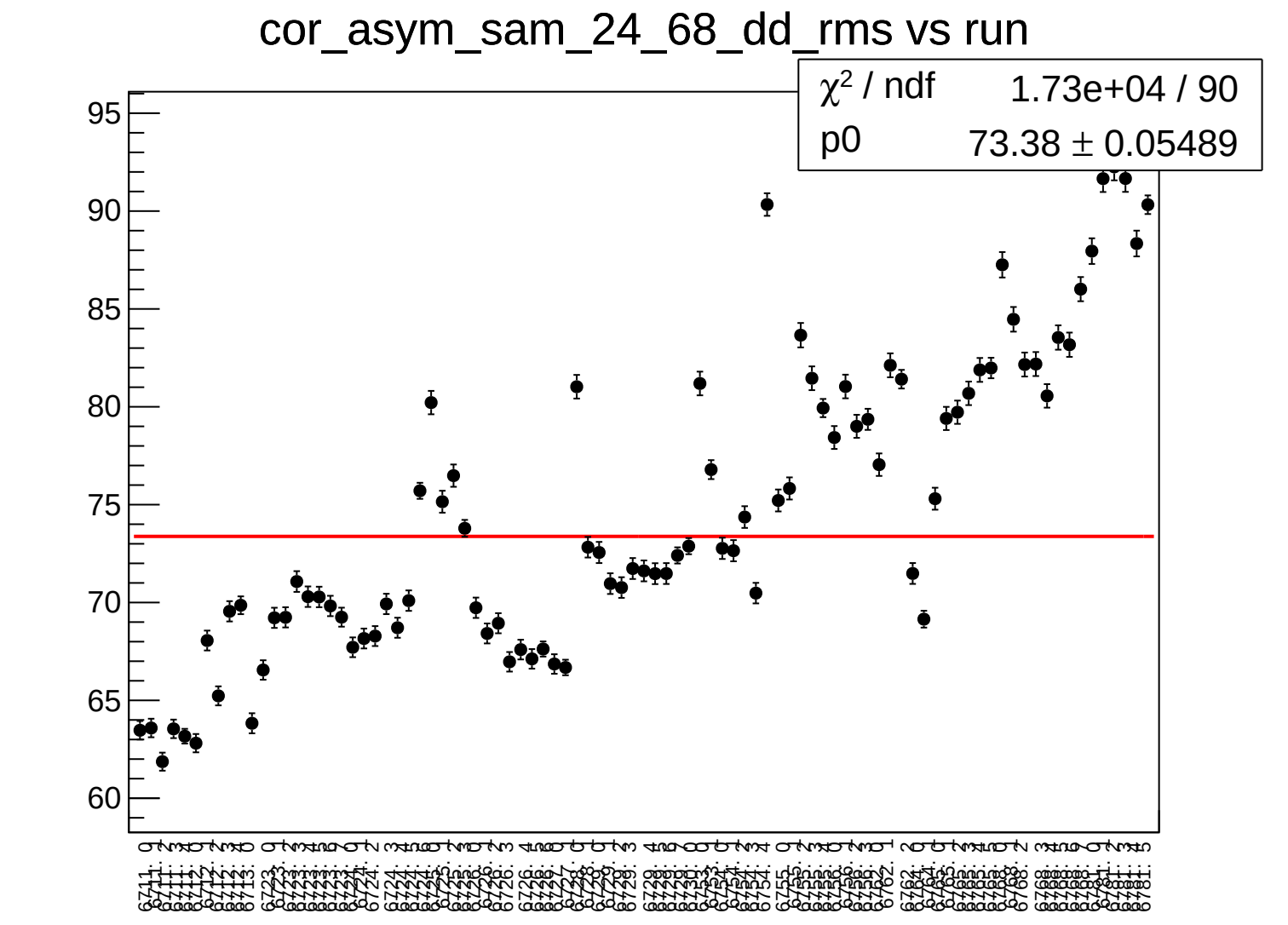

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 108.1 / 90
p0 676.2 ± 1006
pull
Entries 91
Mean 61.32
Std Dev 76.26

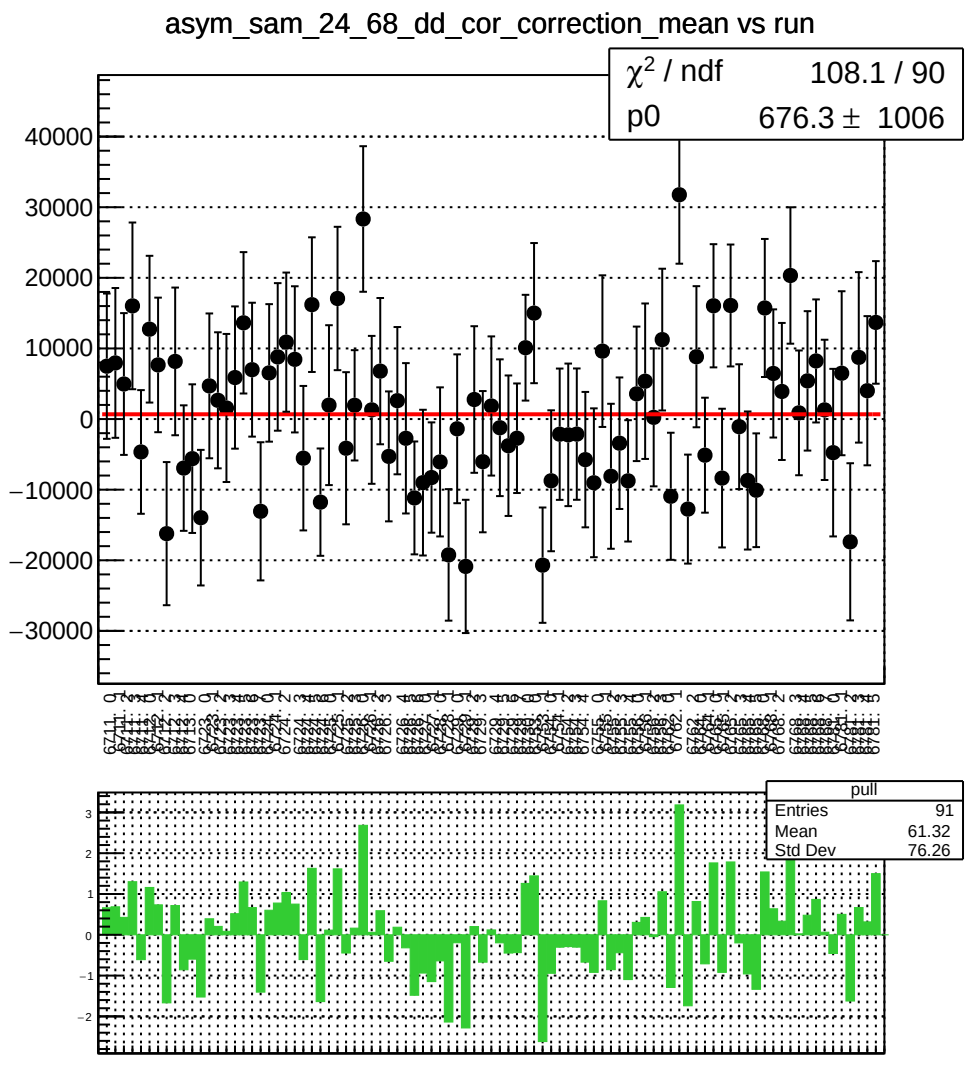

pull1D
Entries 91
Mean 0.02842
Std Dev 1.089

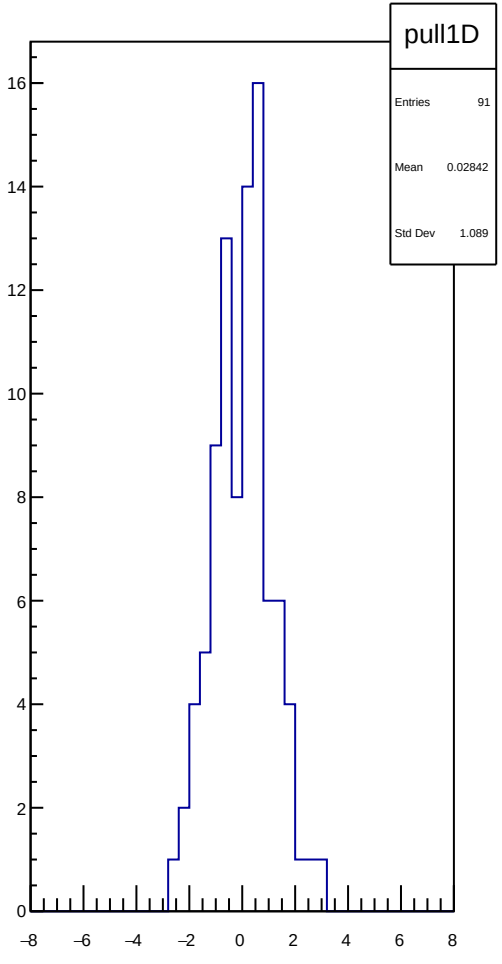

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 8833 / 90
p0 952.9 ± 0.7112
1200
1150
1100
1050
1000
950
900
850
800

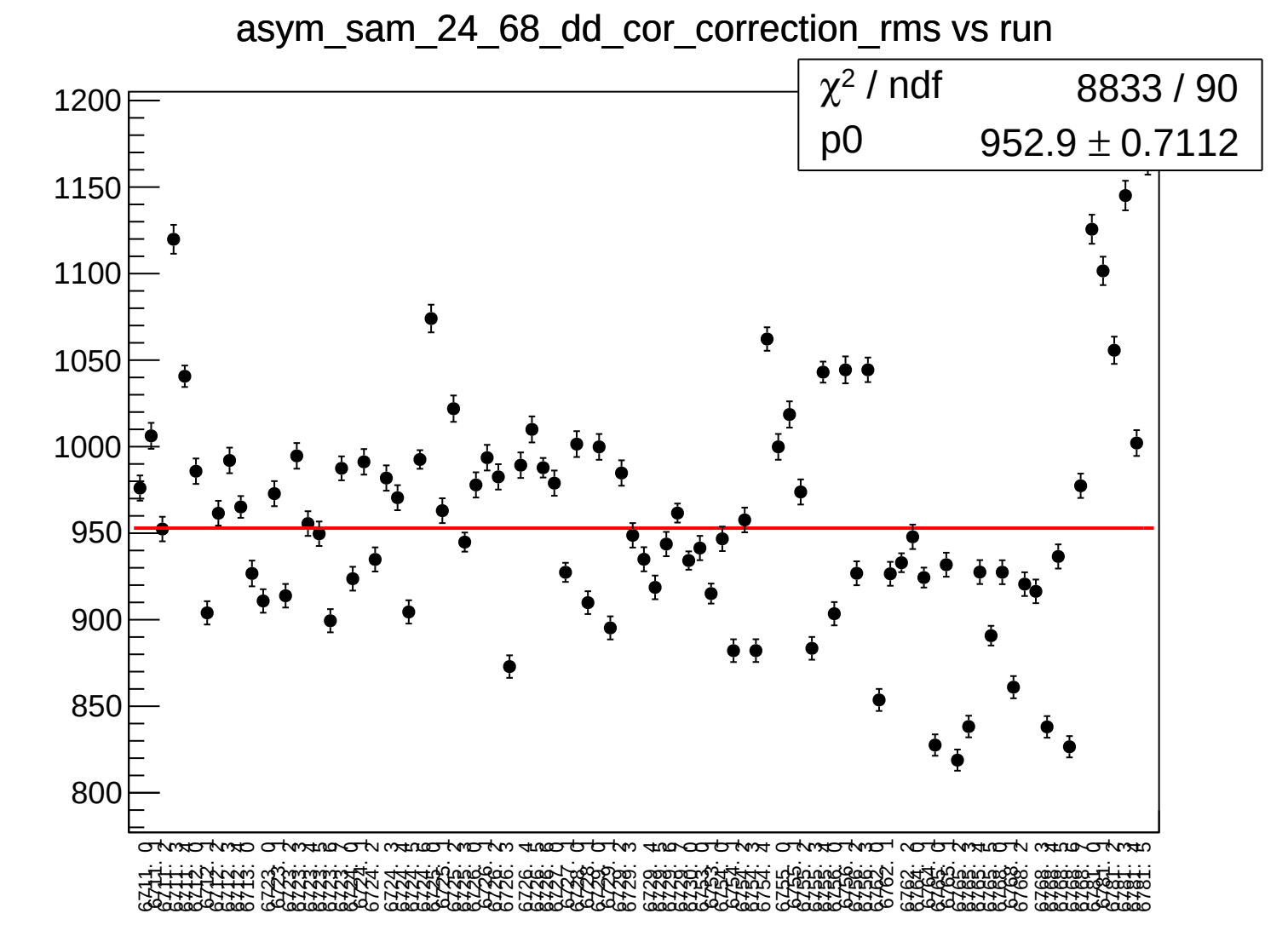

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 86.45 / 90
p0 177.1 ± 77.63
3000
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −6834
Std Dev 0
2
1
0
−1
−2

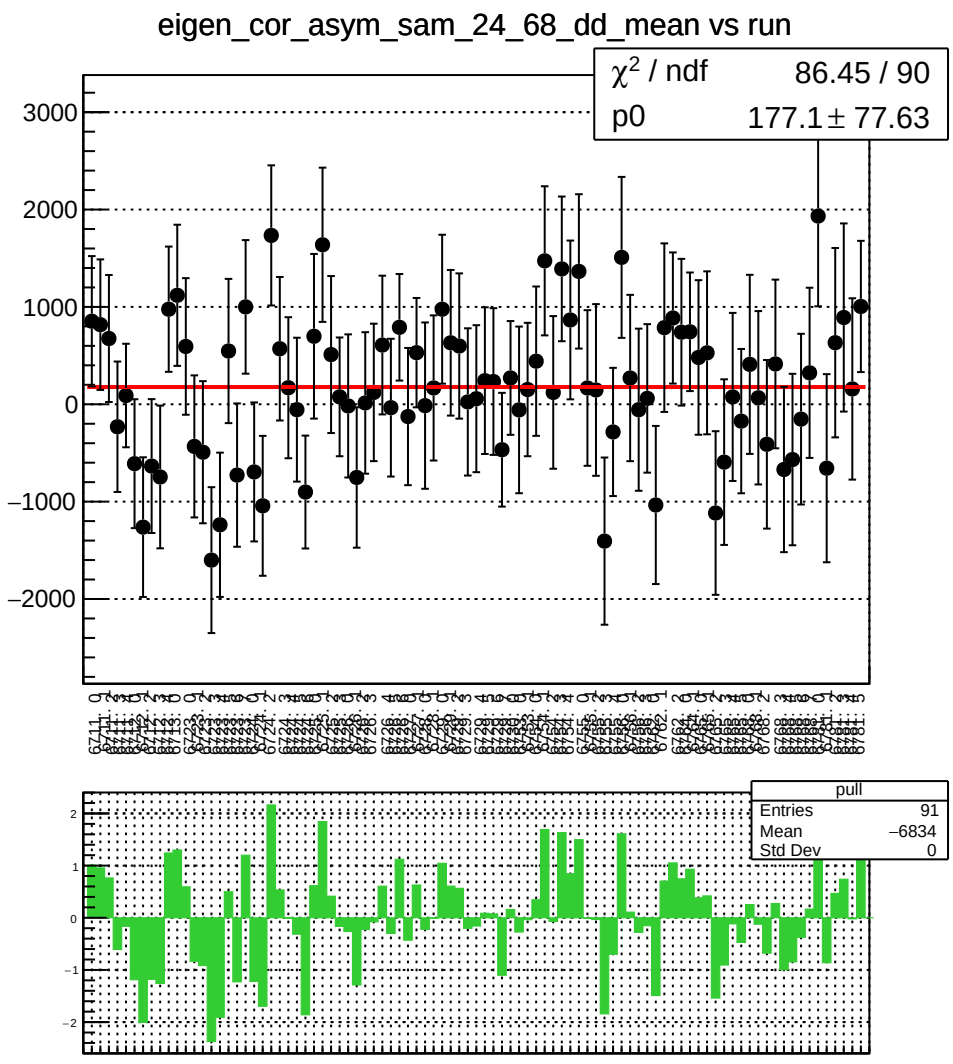

pull1D
Entries 91
Mean −0.0004566
Std Dev 0.9747
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

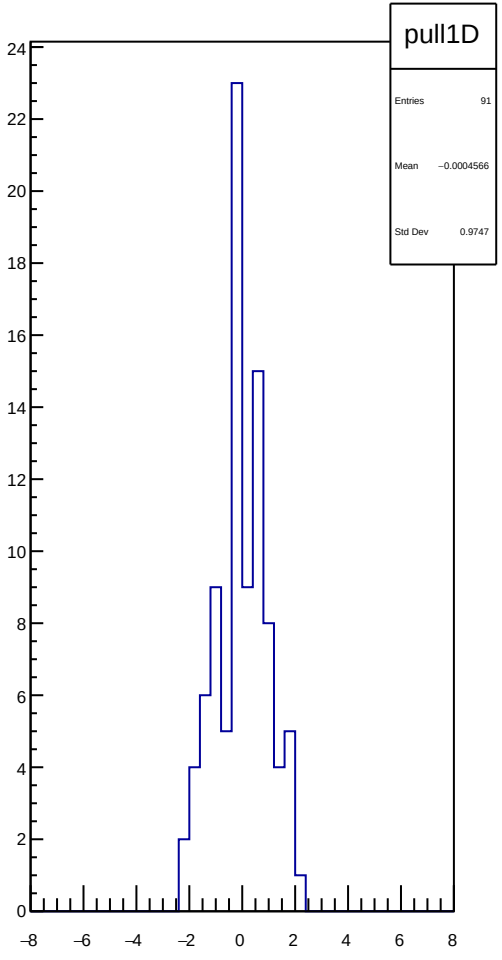

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.73e+04 / 90
p0 73.38 ± 0.05489
95
90
85
80
75
70
65
60

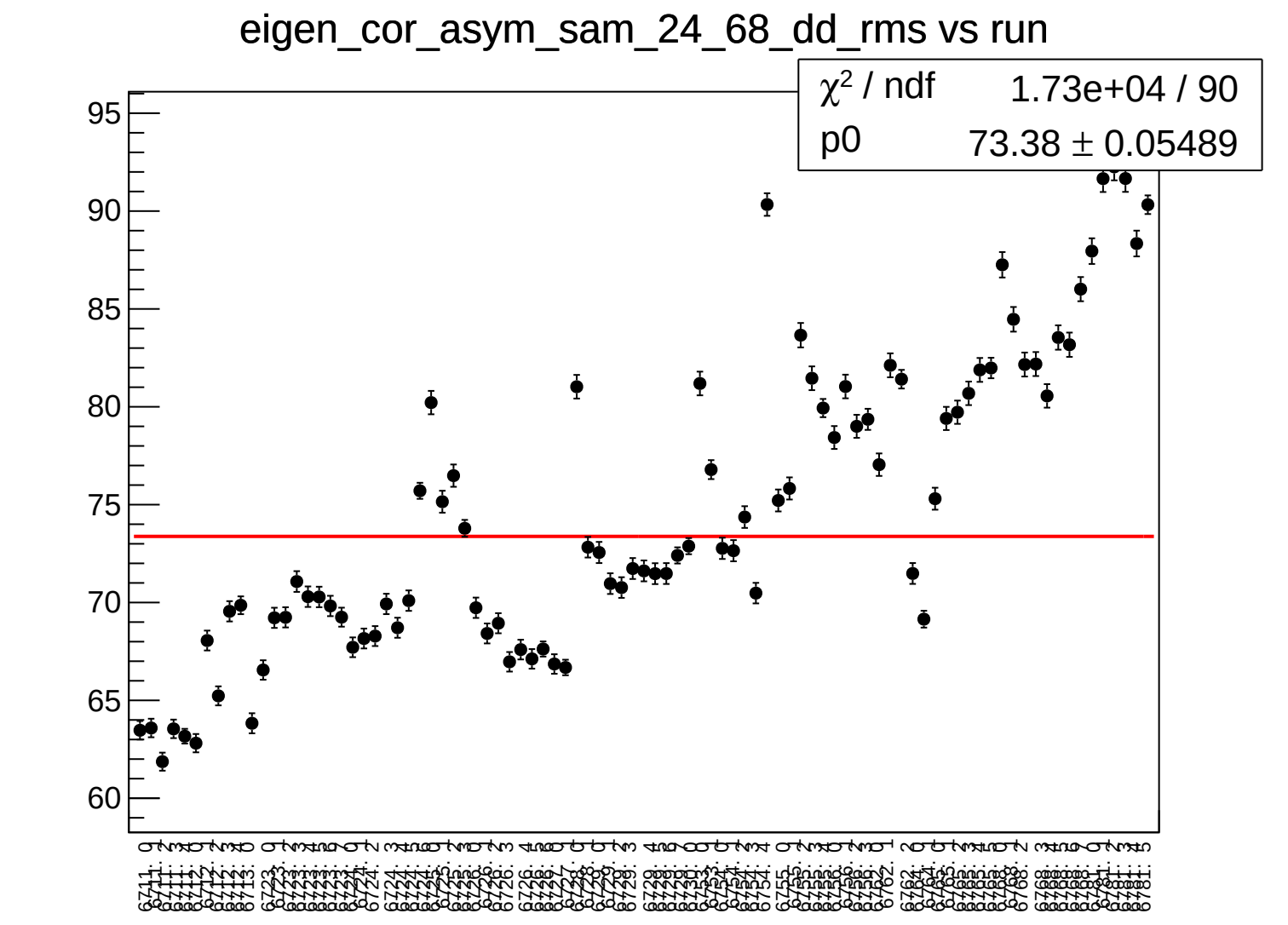

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 108.1 / 90
p0 676.3 ± 1006
pull
Entries 91
Mean 61.32
Std Dev 76.26

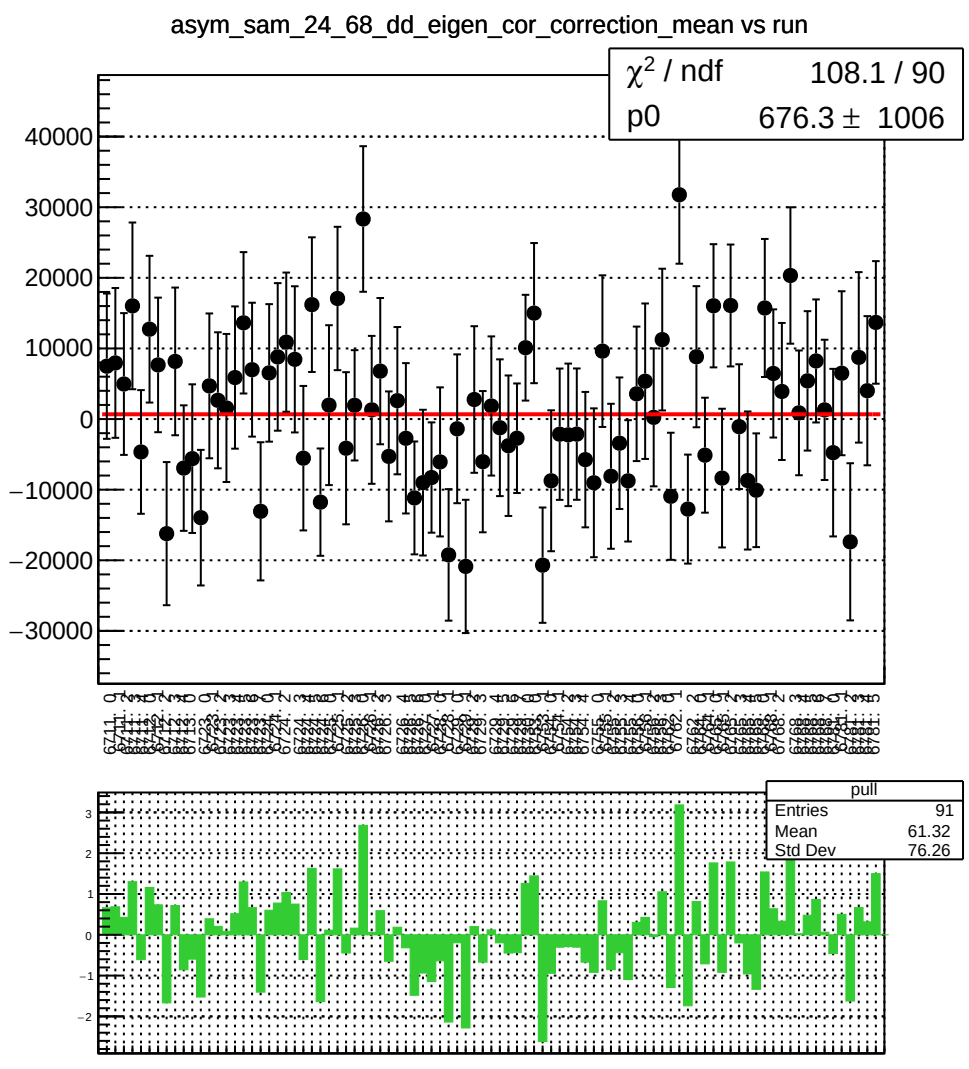

pull1D
Entries 91
Mean 0.02842
Std Dev 1.089

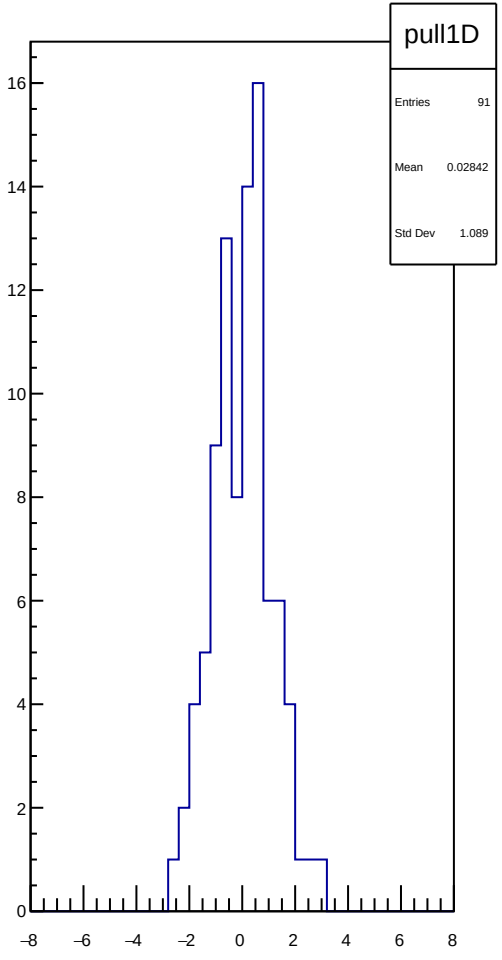

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 8833 / 90
p0 952.9 ± 0.7112
1200
1150
1100
1050
1000
950
900
850
800

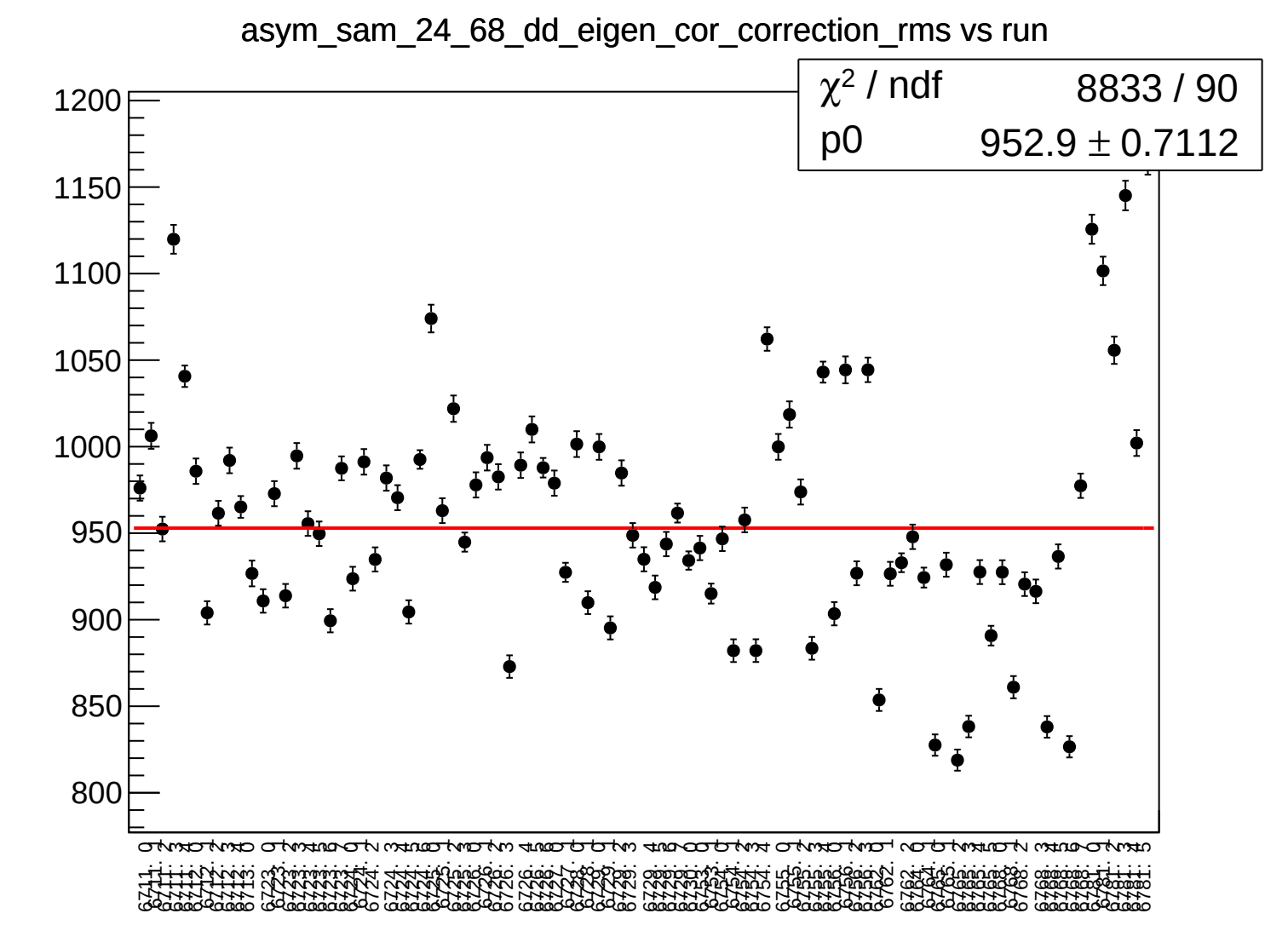

eigen_cor_asym_sam_24_68_dd_mean vs run
χ^2 / ndf 86.45 / 90
p0 177.1 ± 77.63
pull
Entries 91
Mean −6834
Std Dev 0

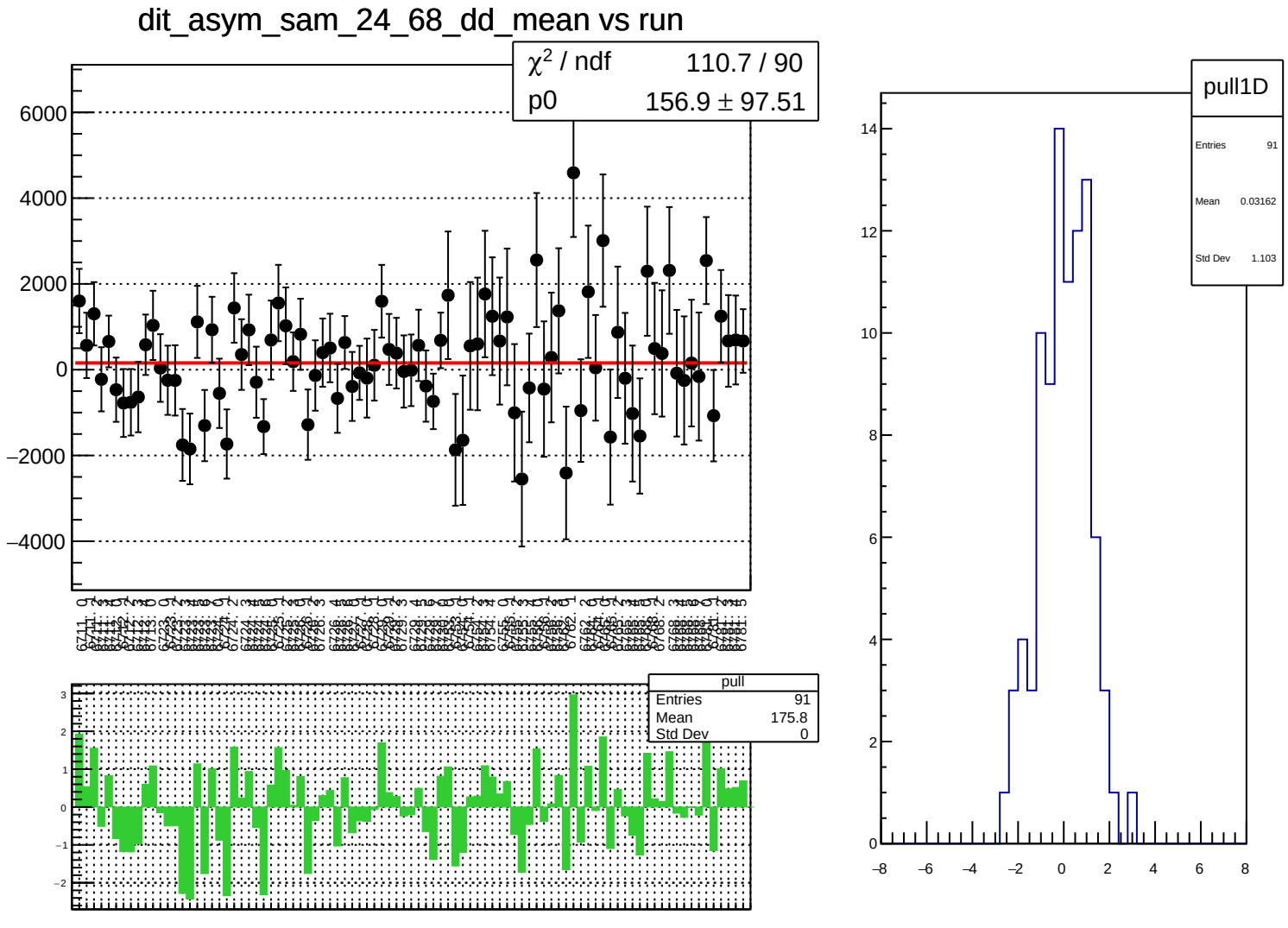

pull1D
Entries 91
Mean −0.0004566
Std Dev 0.9747

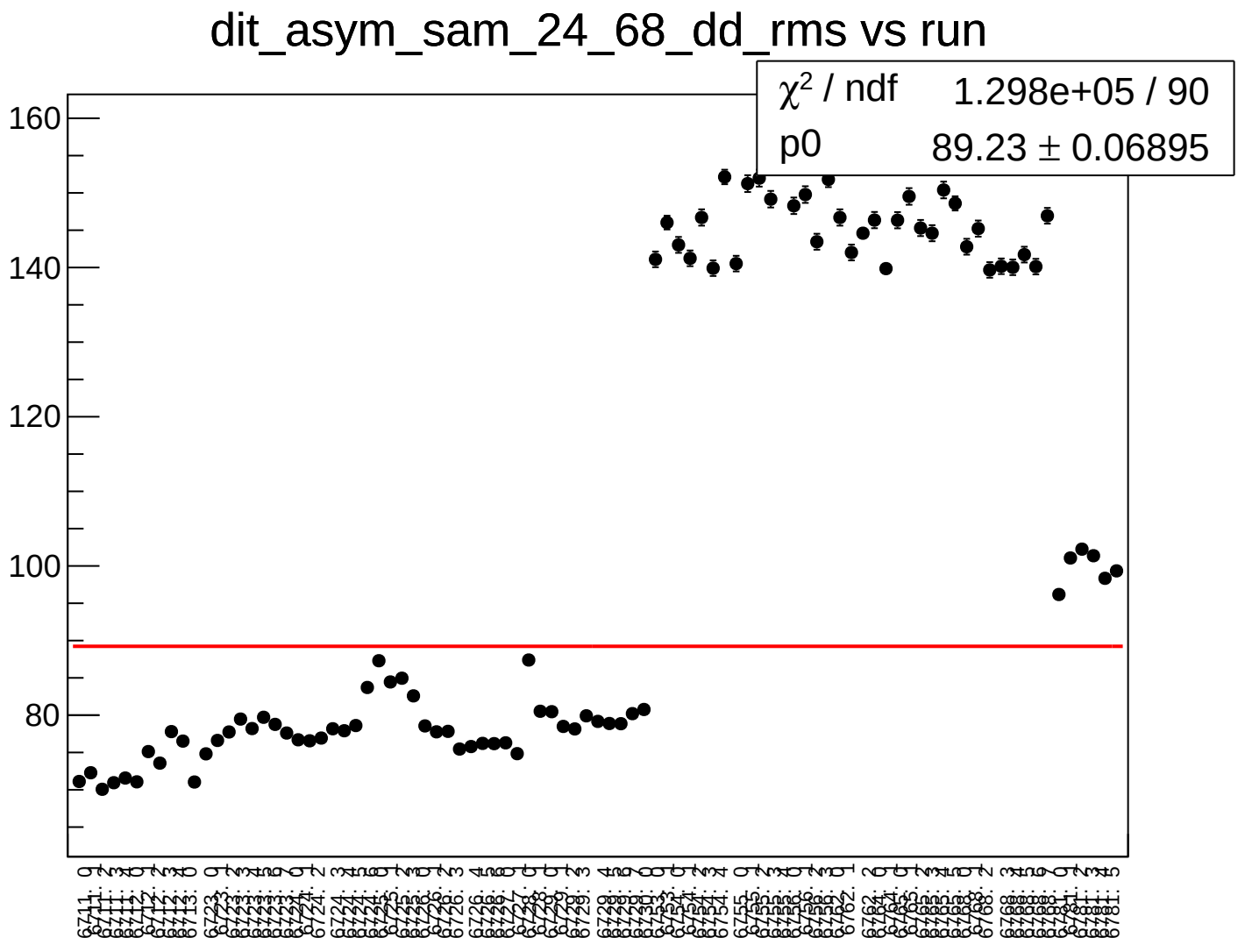

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.73e+04 / 90
p0 73.38 ± 0.05489
95
90
85
80
75
70
65
60

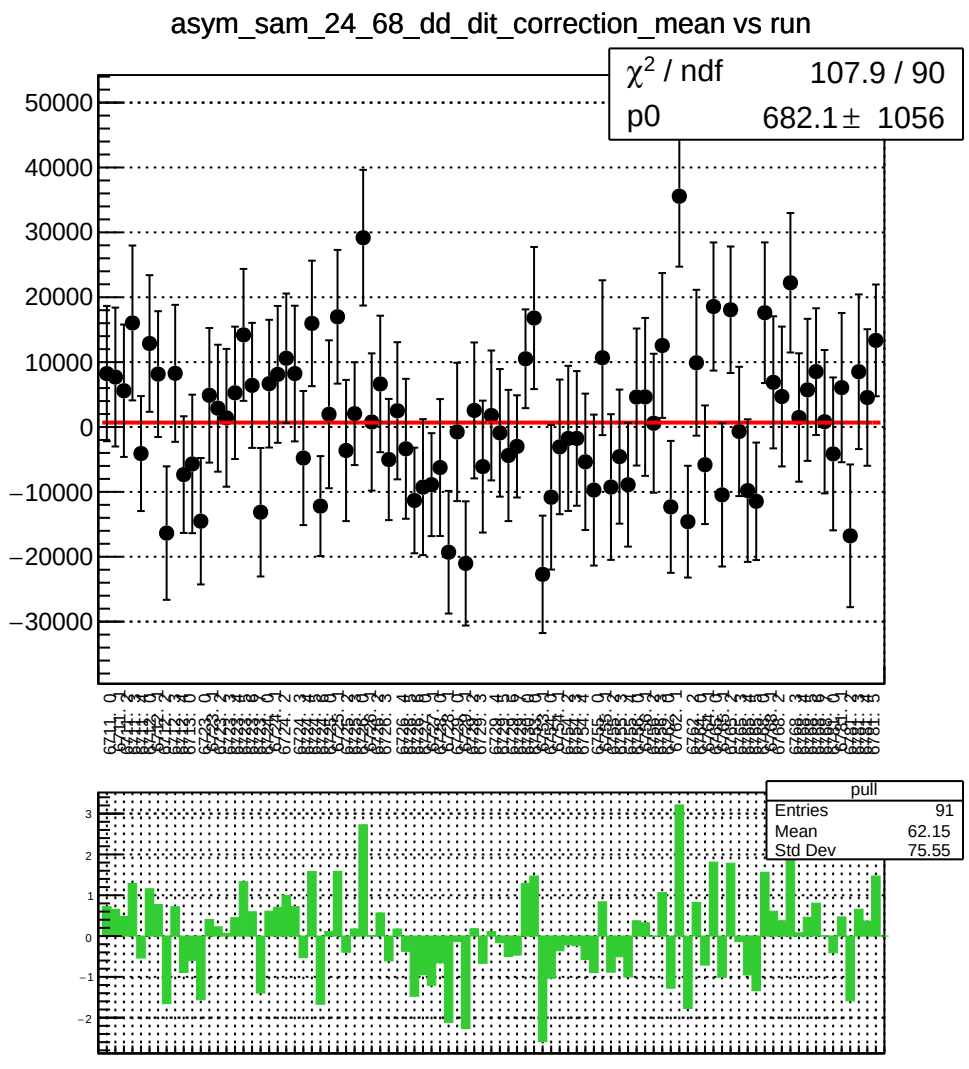

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 108.1 / 90
p0 676.3 ± 1006
pull
Entries 91
Mean 61.32
Std Dev 76.26

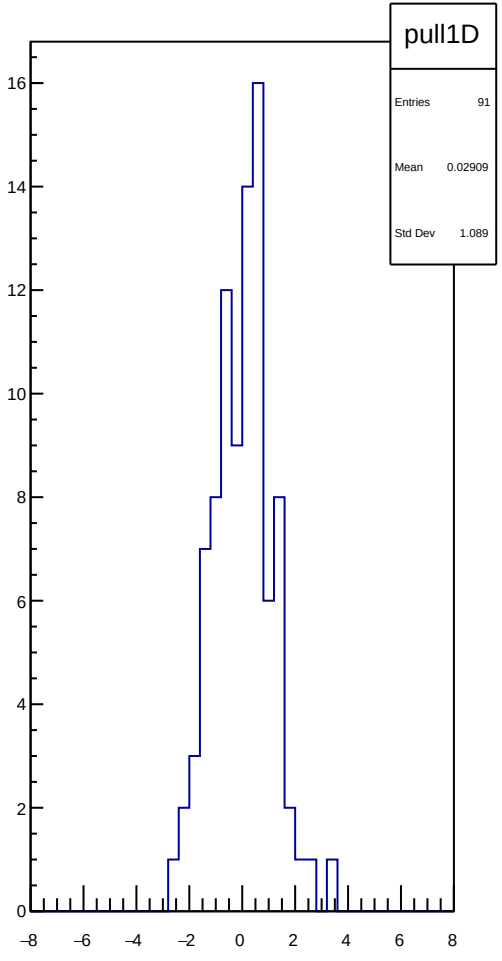

pull1D
Entries 91
Mean 0.02842
Std Dev 1.089

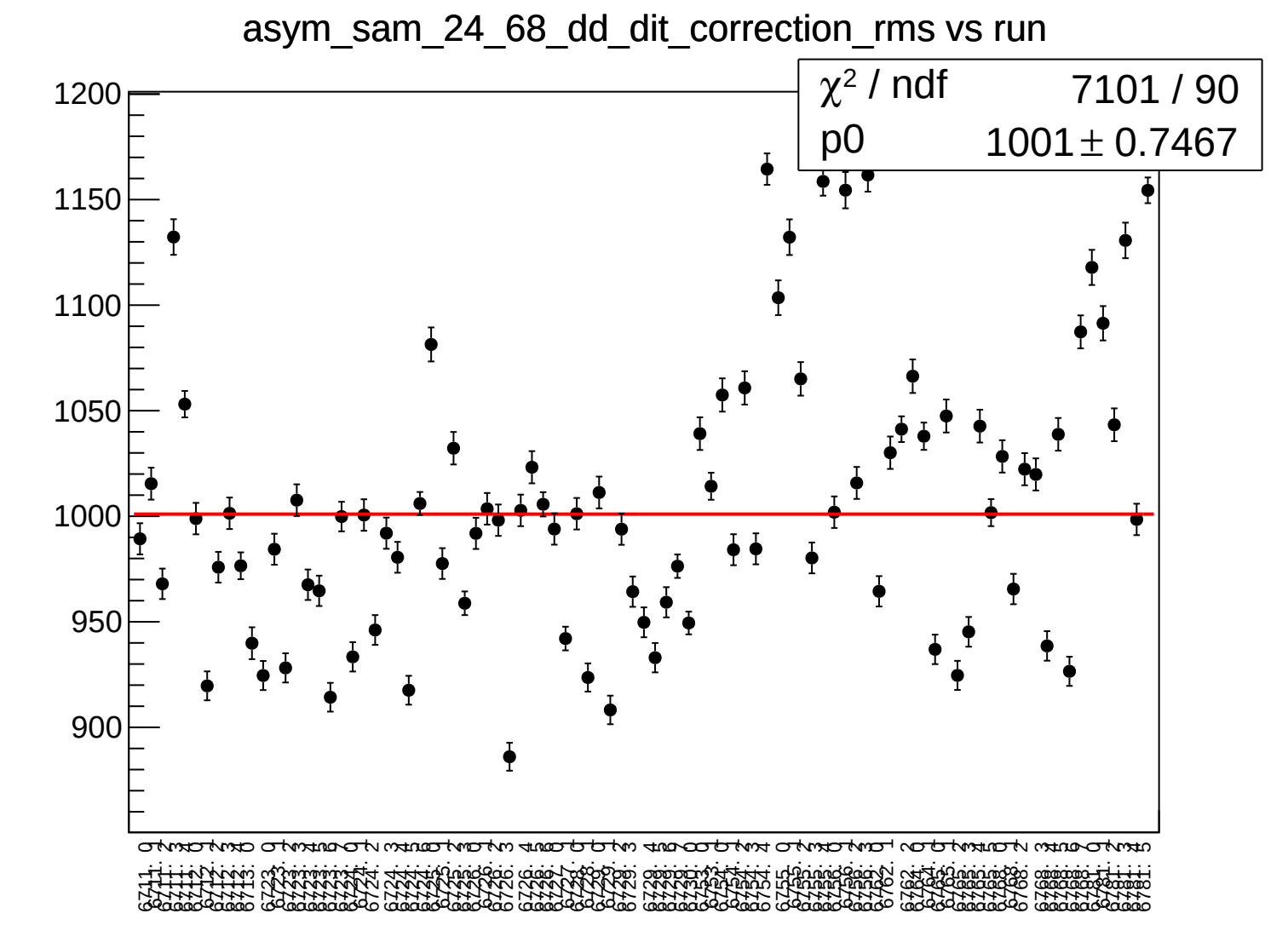

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 8833 / 90
p0 952.9 ± 0.7112
1200
1150
1100
1050
1000
950
900
850
800

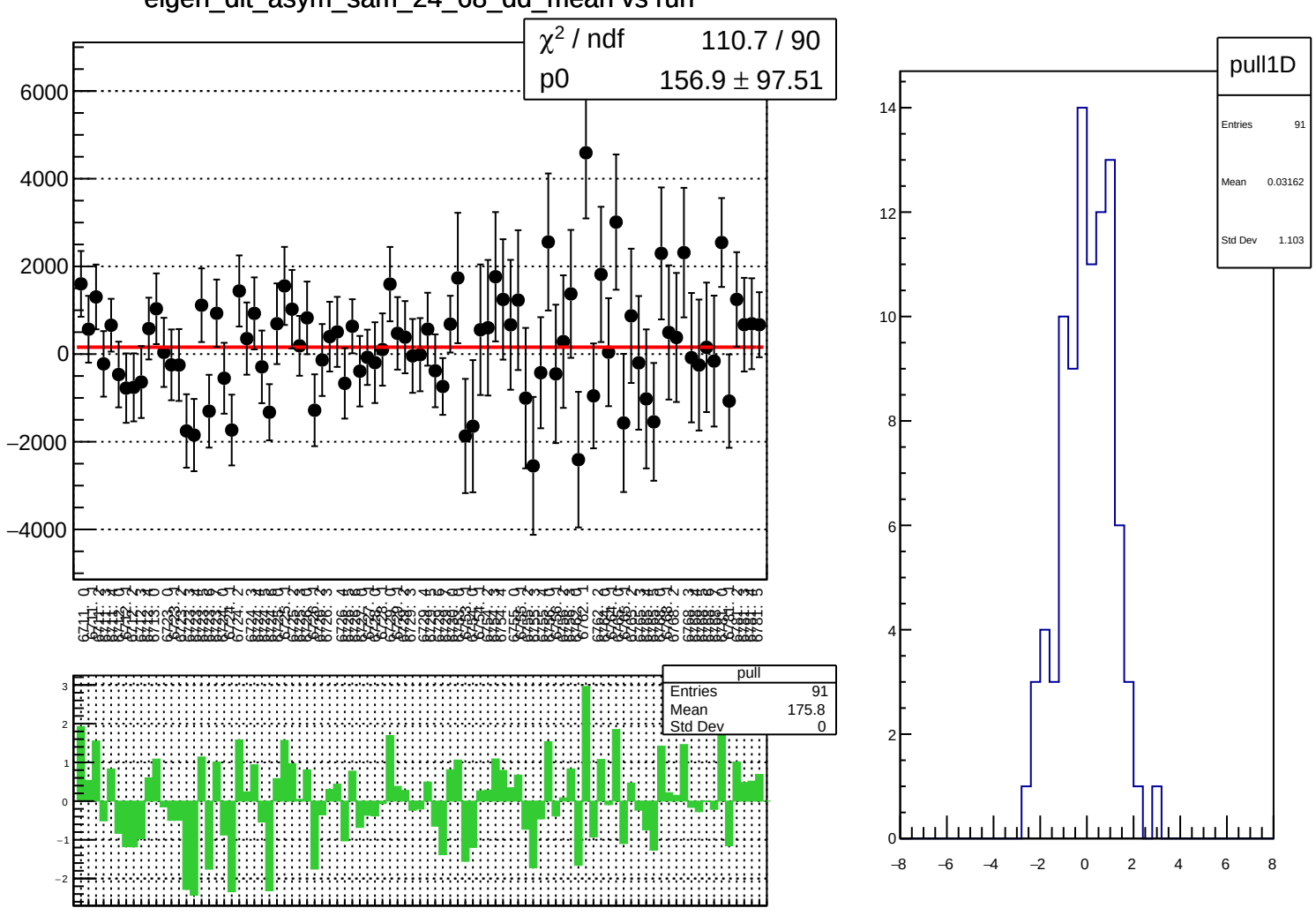

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 110.7 / 90
p0 156.9 ± 97.51
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 175.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.03162
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

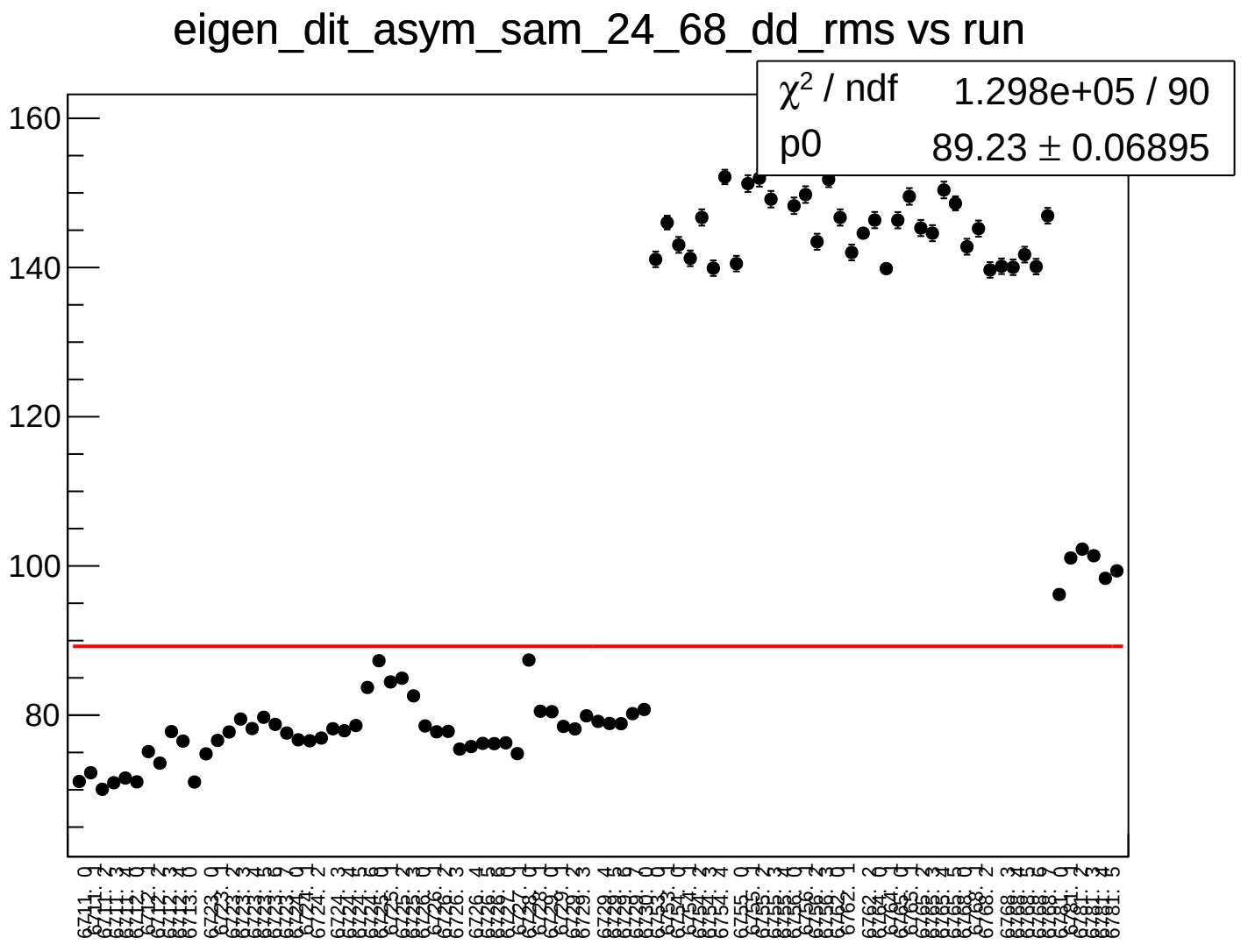

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.298e+05 / 90
p0 89.23 ± 0.06895
160
140
120
100
80

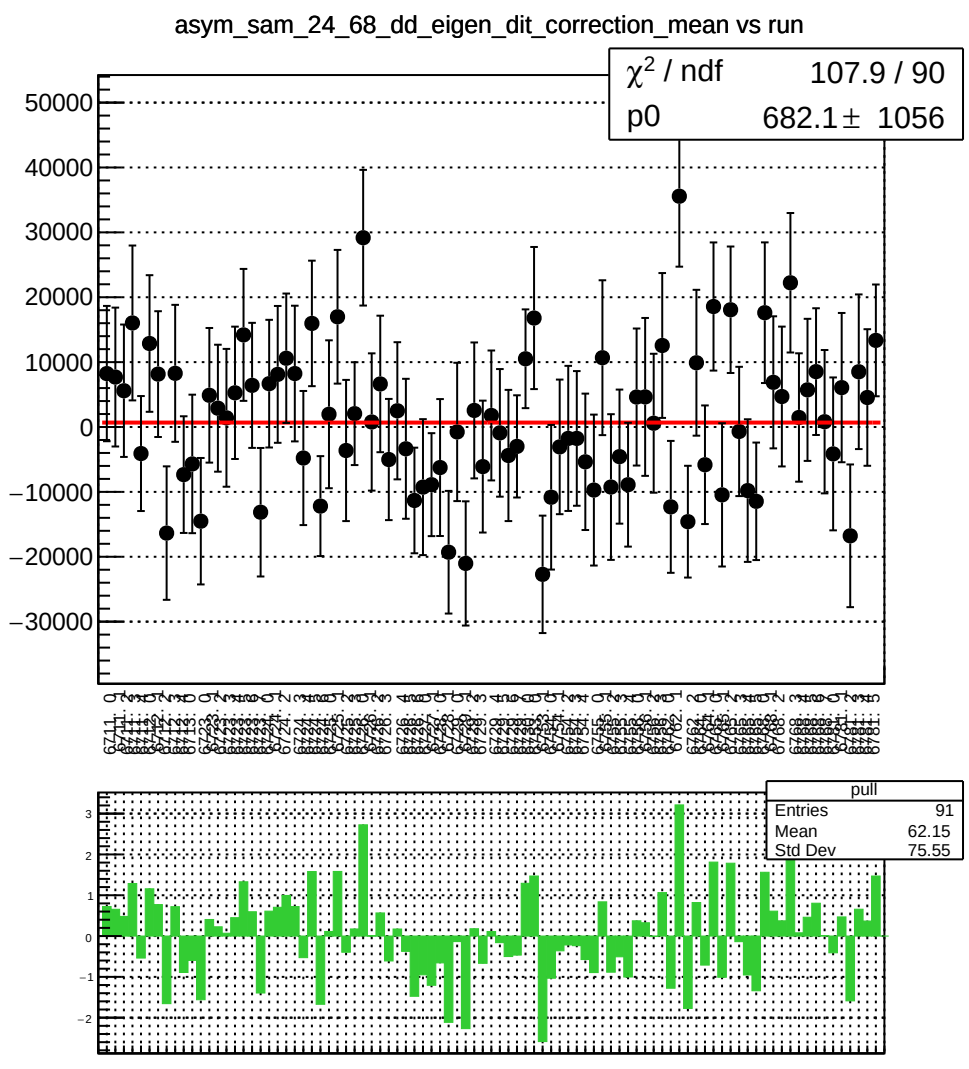

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 107.9 / 90
p0 682.1 ± 1056
pull
Entries 91
Mean 62.15
Std Dev 75.55

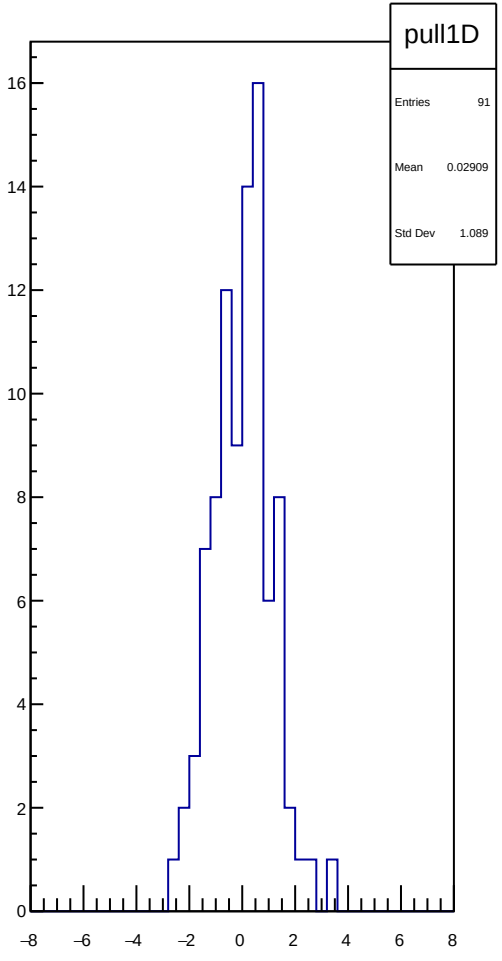

pull1D
Entries 91
Mean 0.02909
Std Dev 1.089

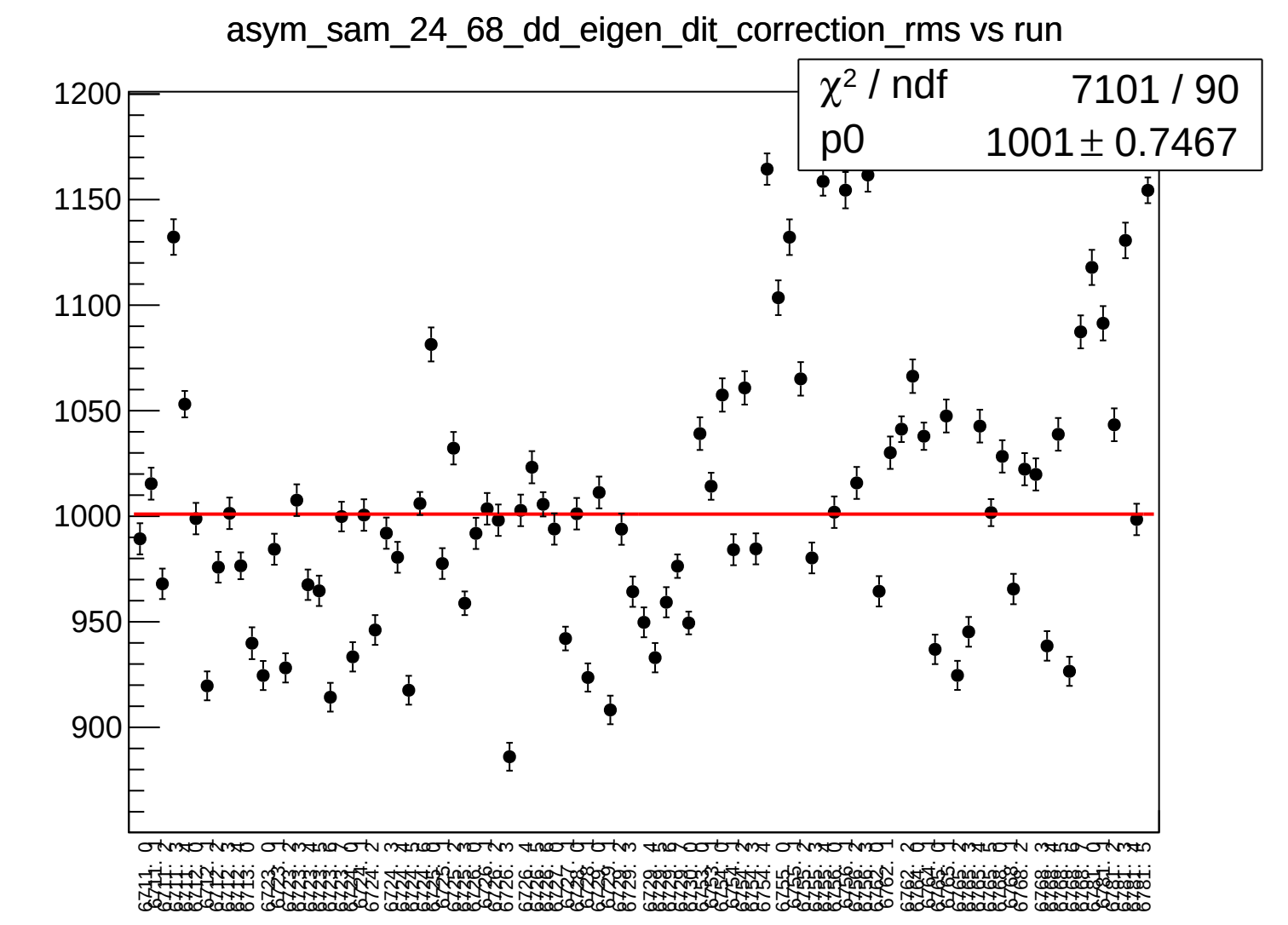

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 7101 / 90
p0 1001 ± 0.7467
1200
1150
1100
1050
1000
950
900

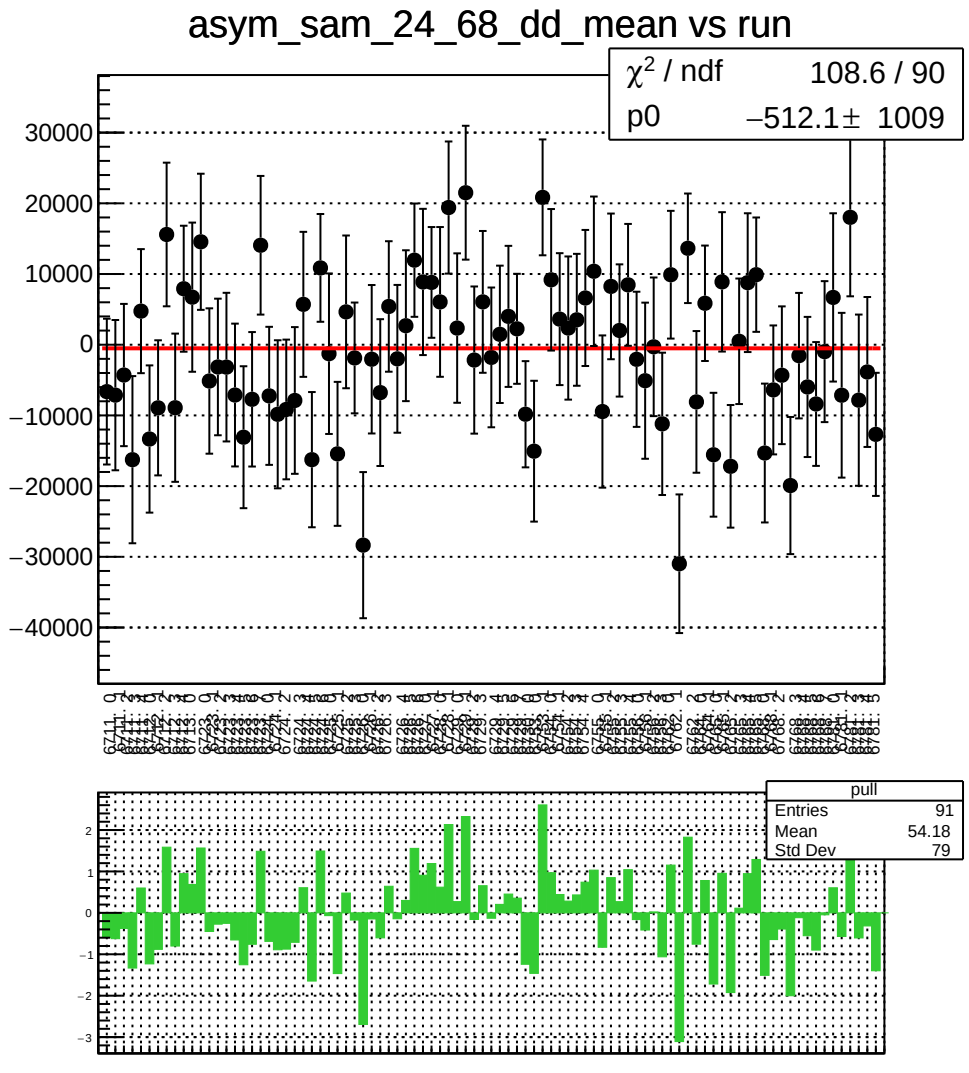

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 110.7 / 90
p0 156.9 ± 97.51
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 175.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.03162
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

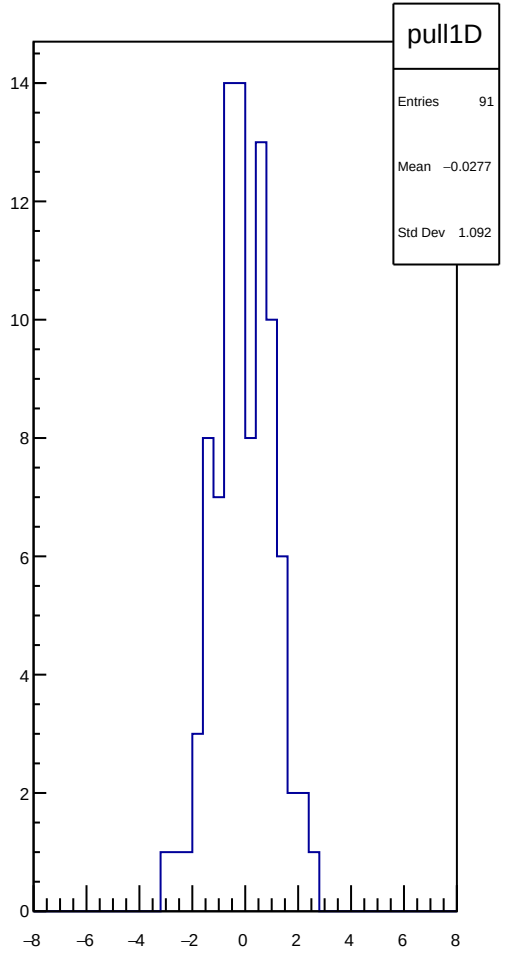

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.298e+05 / 90
p0 89.23 ± 0.06895
160
140
120
100
80

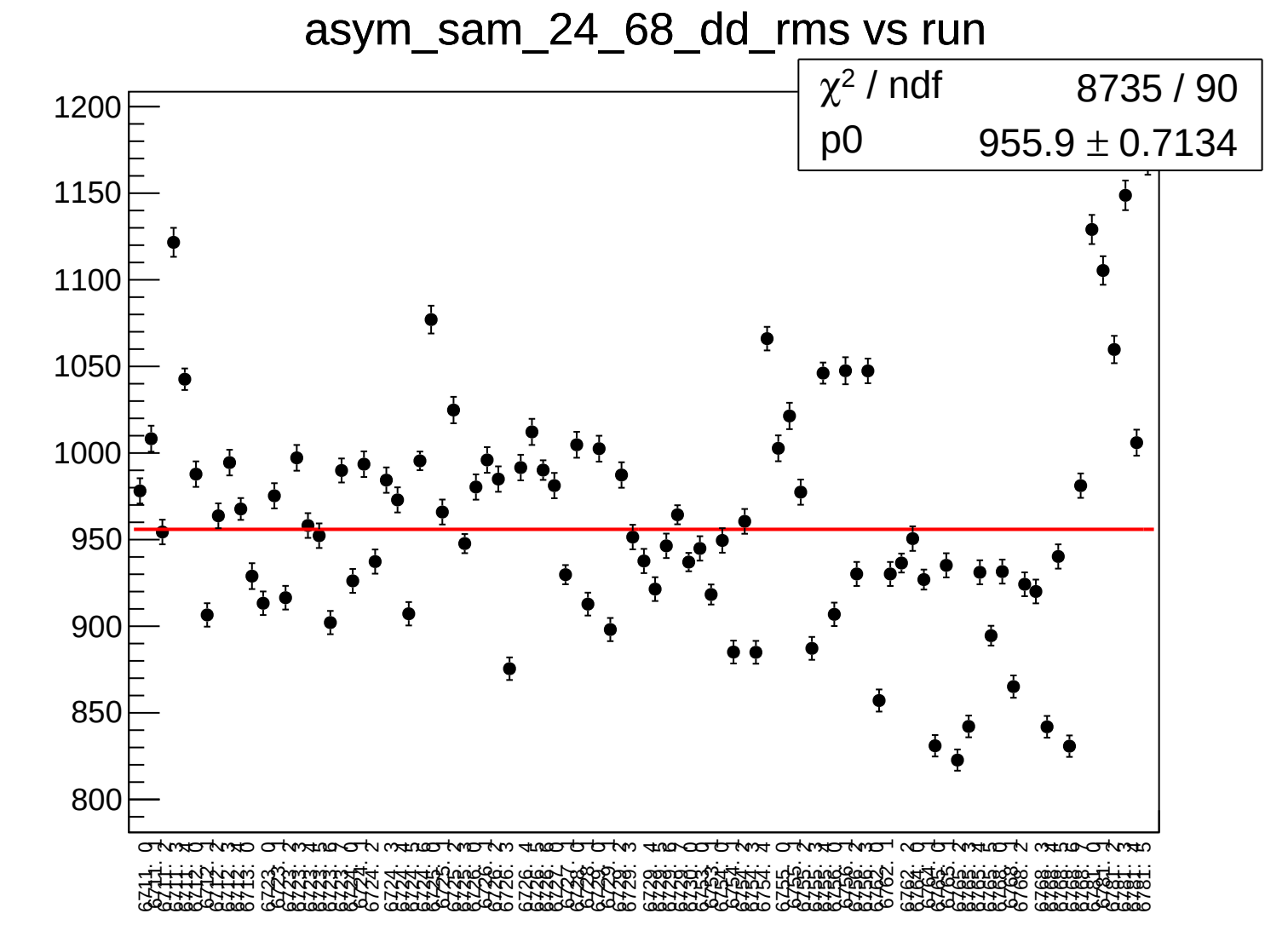

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 107.9 / 90
p0 682.1 ± 1056
pull
Entries 91
Mean 62.15
Std Dev 75.55

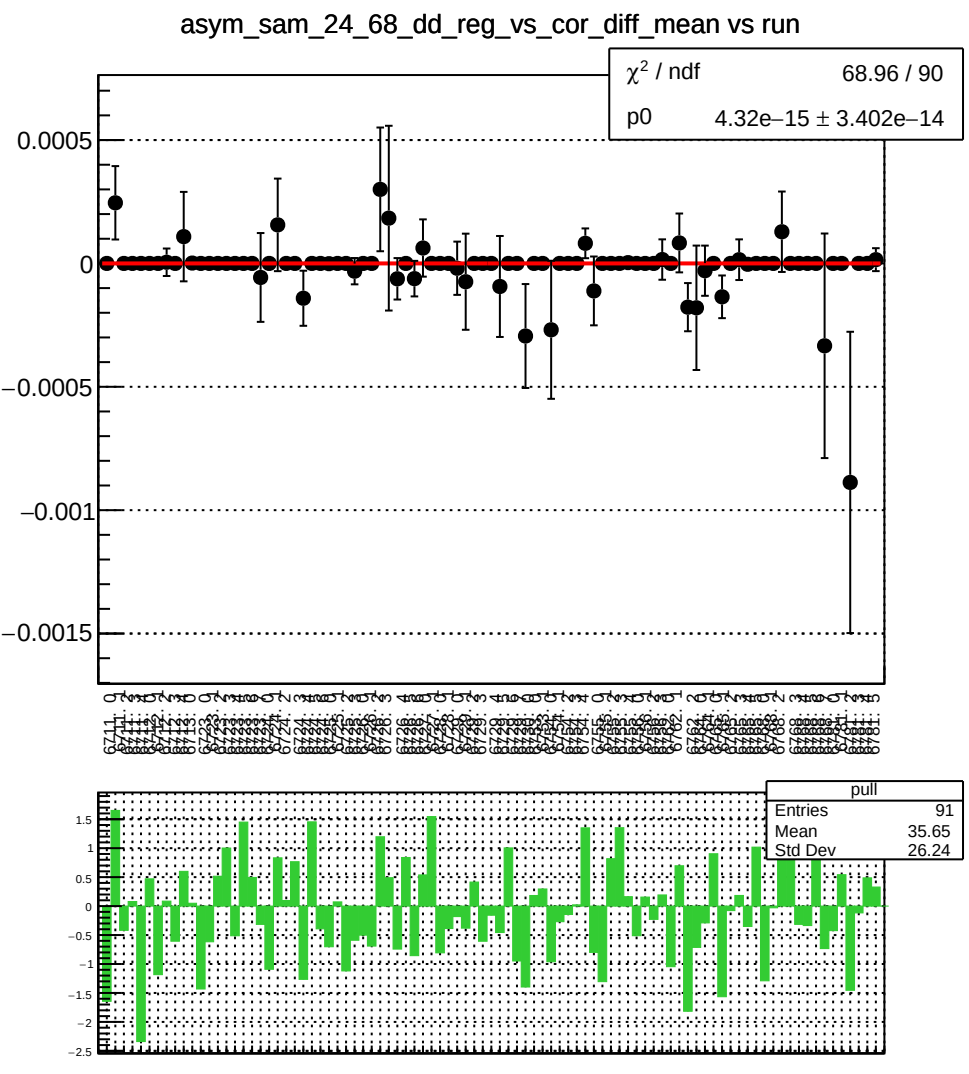

pull1D
Entries 91
Mean 0.02909
Std Dev 1.089

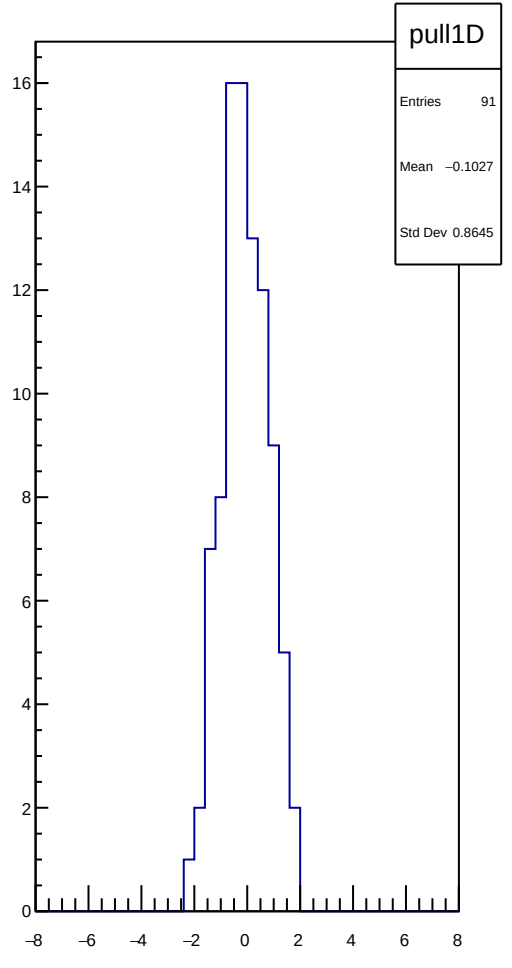

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 7101 / 90
p0 1001 ± 0.7467
1200
1150
1100
1050
1000
950
900

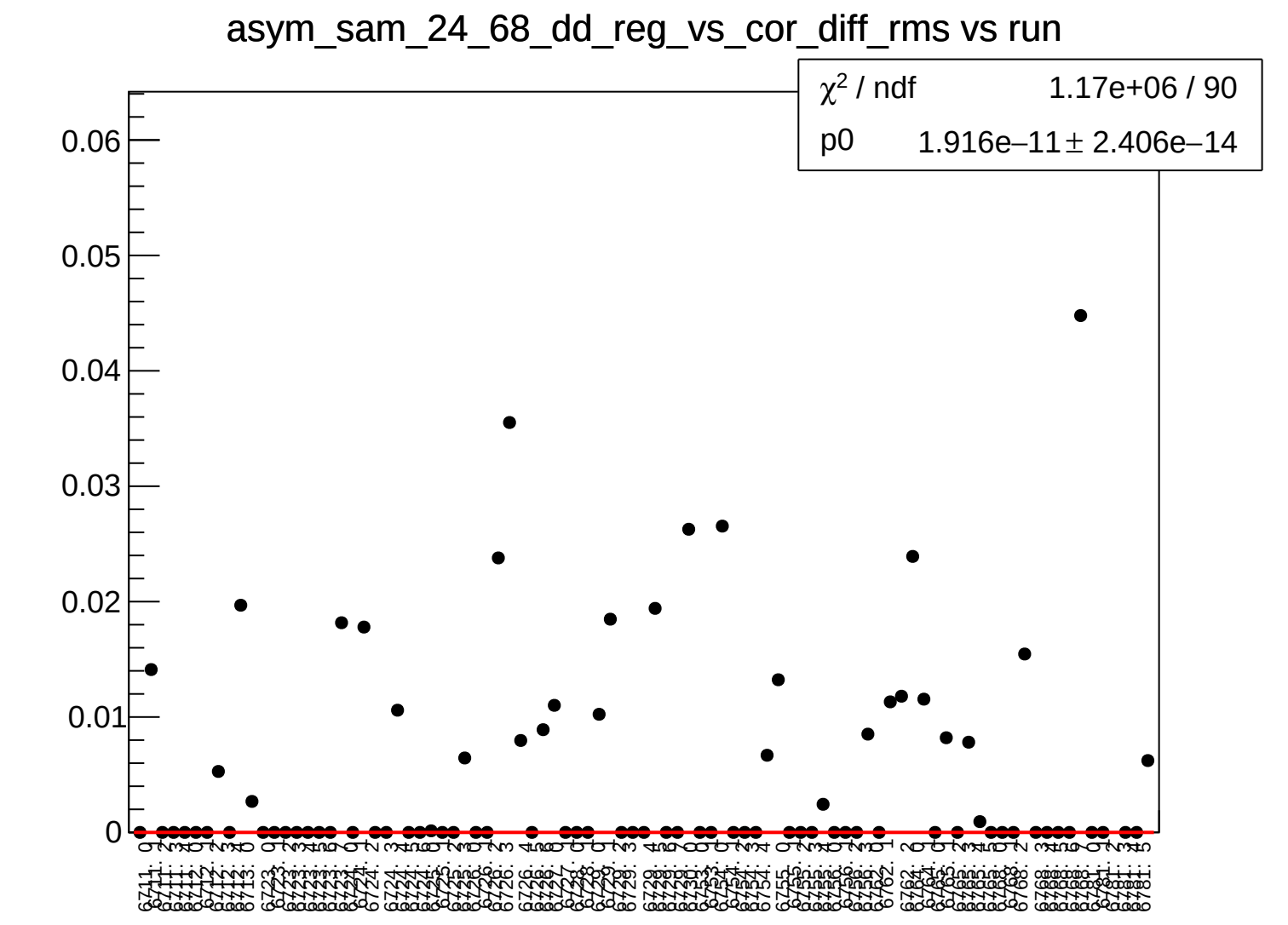

asym_sam_24_68_dd_mean vs run
χ² / ndf 108.6 / 90
p0 −512.1± 1009
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 91
Mean 54.18
Std Dev 79
2
1
0
−1
−2
−3

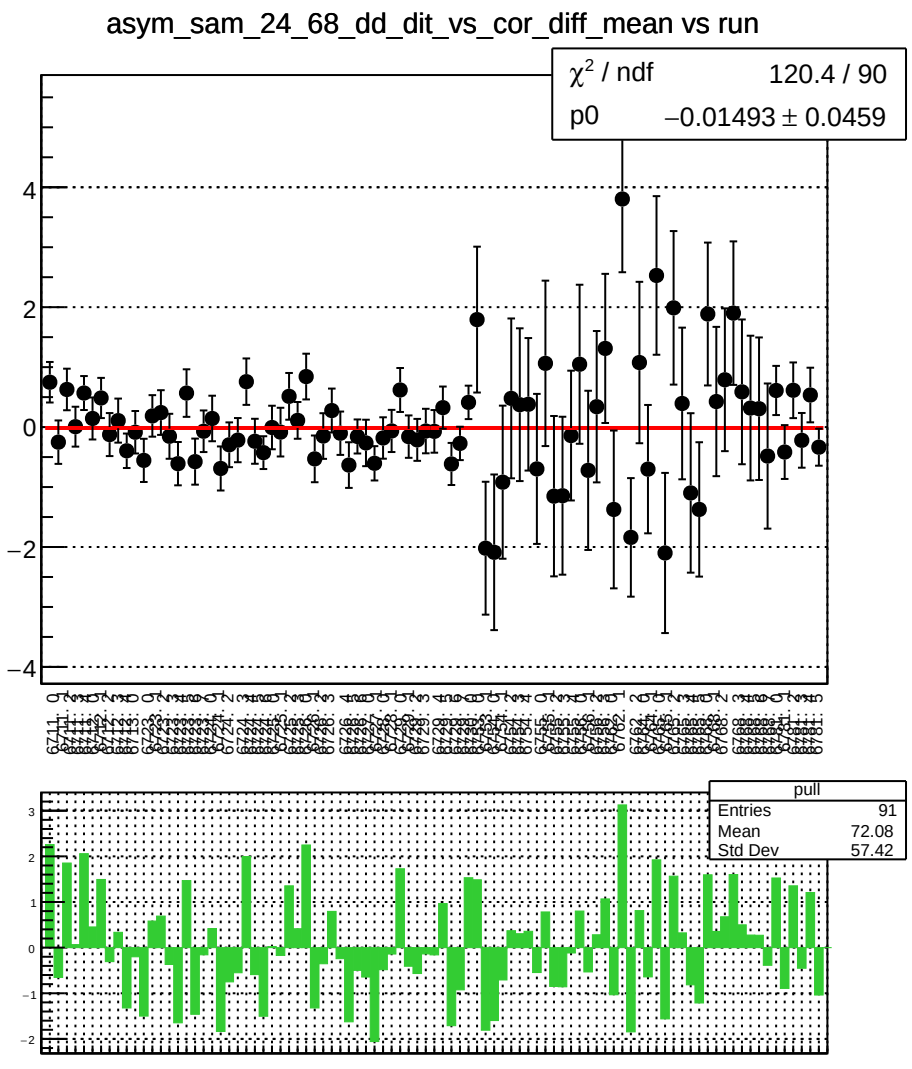

pull1D
Entries 91
Mean −0.0277
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

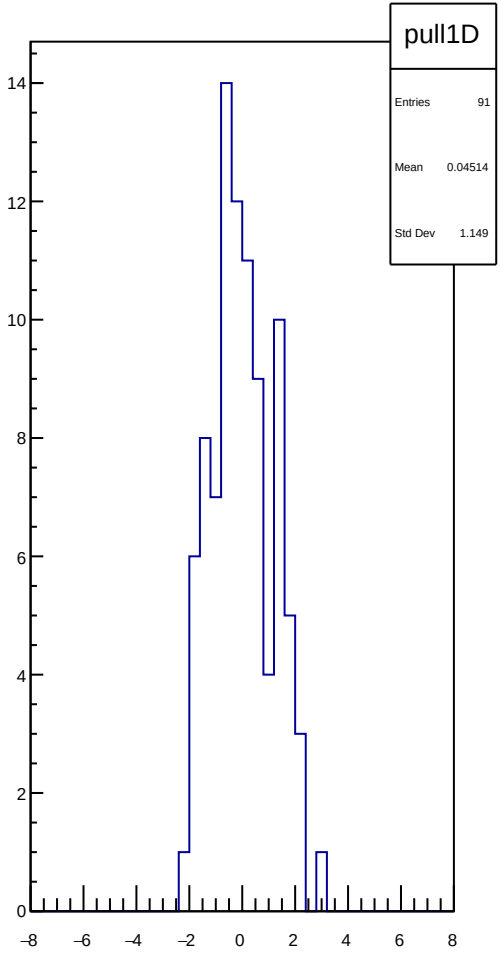

asym_sam_24_68_dd_rms vs run
χ² / ndf 8735 / 90
p0 955.9 ± 0.7134
1200
1150
1100
1050
1000
950
900
850
800

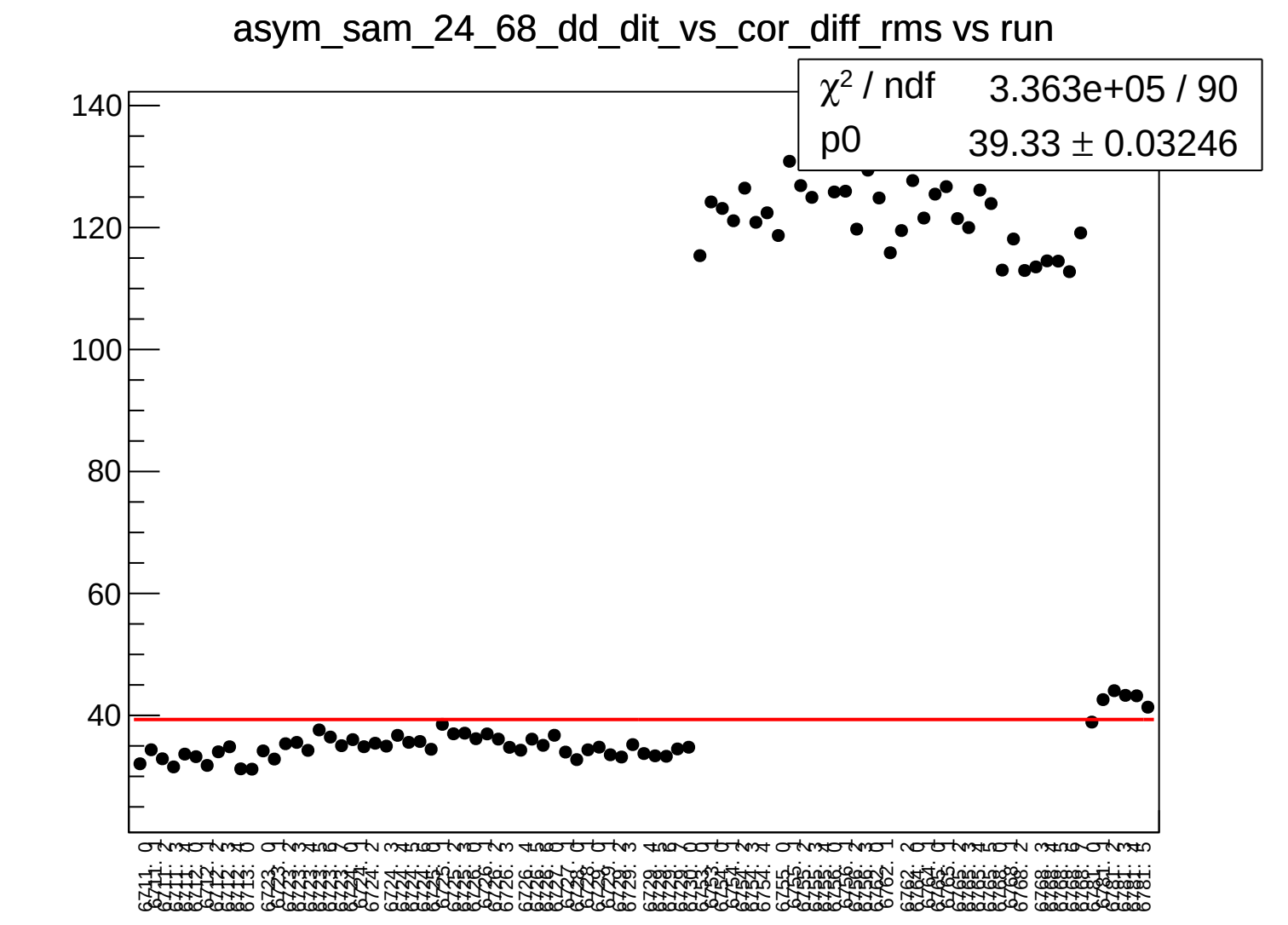

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 68.96 / 90
p0 4.32e−15 ± 3.402e−14
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 91
Mean 35.65
Std Dev 26.24
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

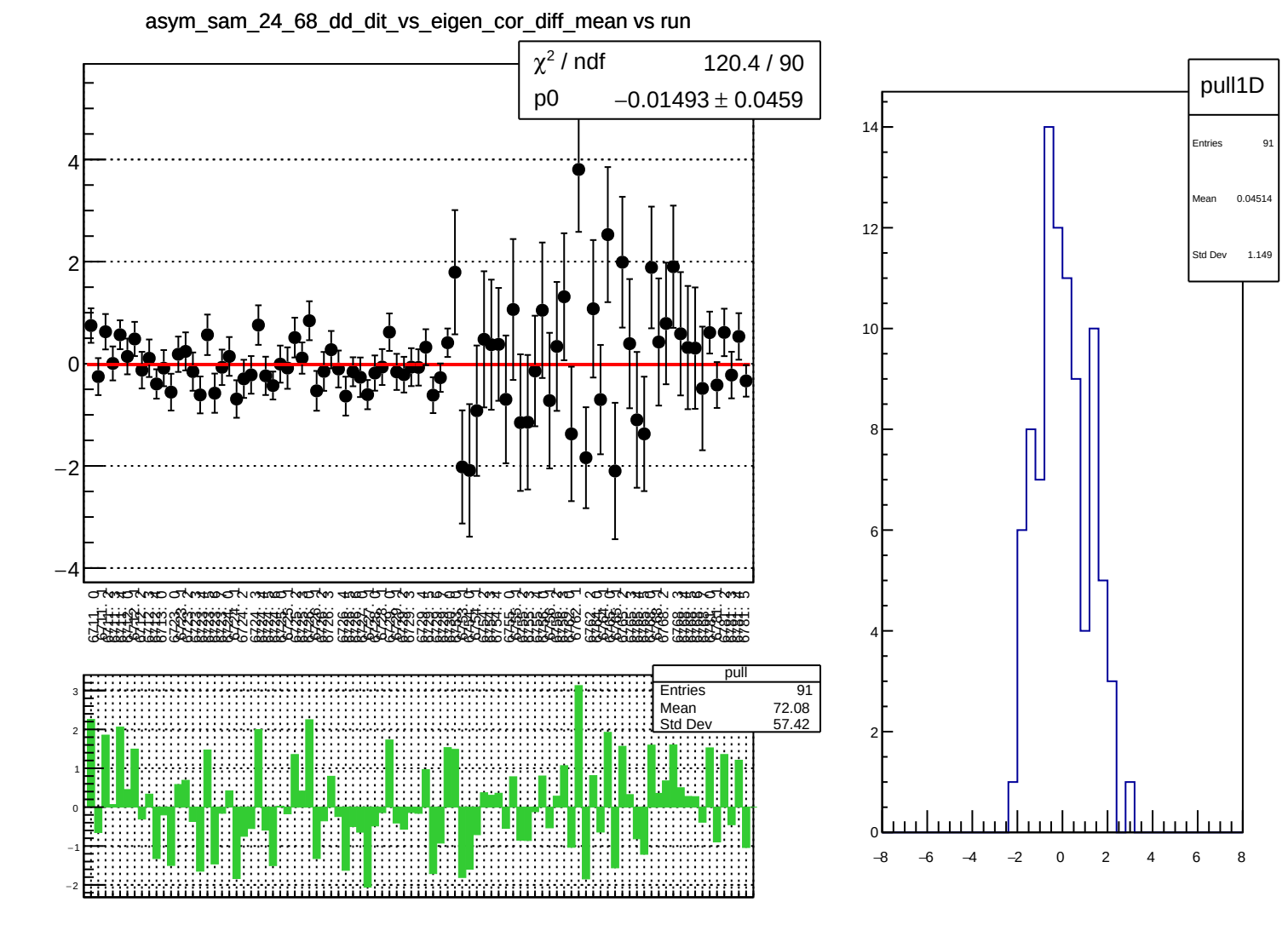

pull1D
Entries 91
Mean −0.1027
Std Dev 0.8645
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

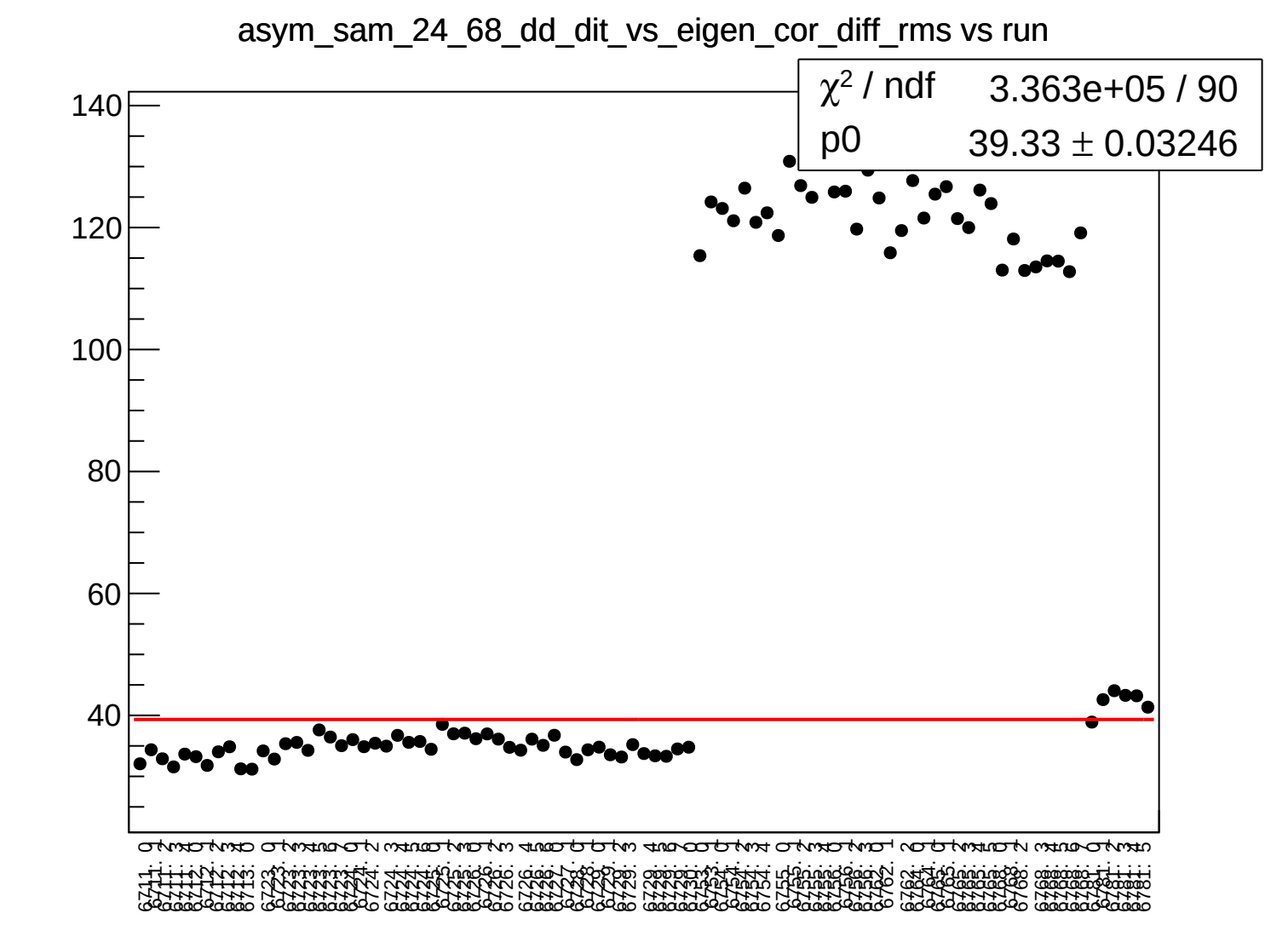

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.17e+06 / 90
p0 1.916e−11 ± 2.406e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

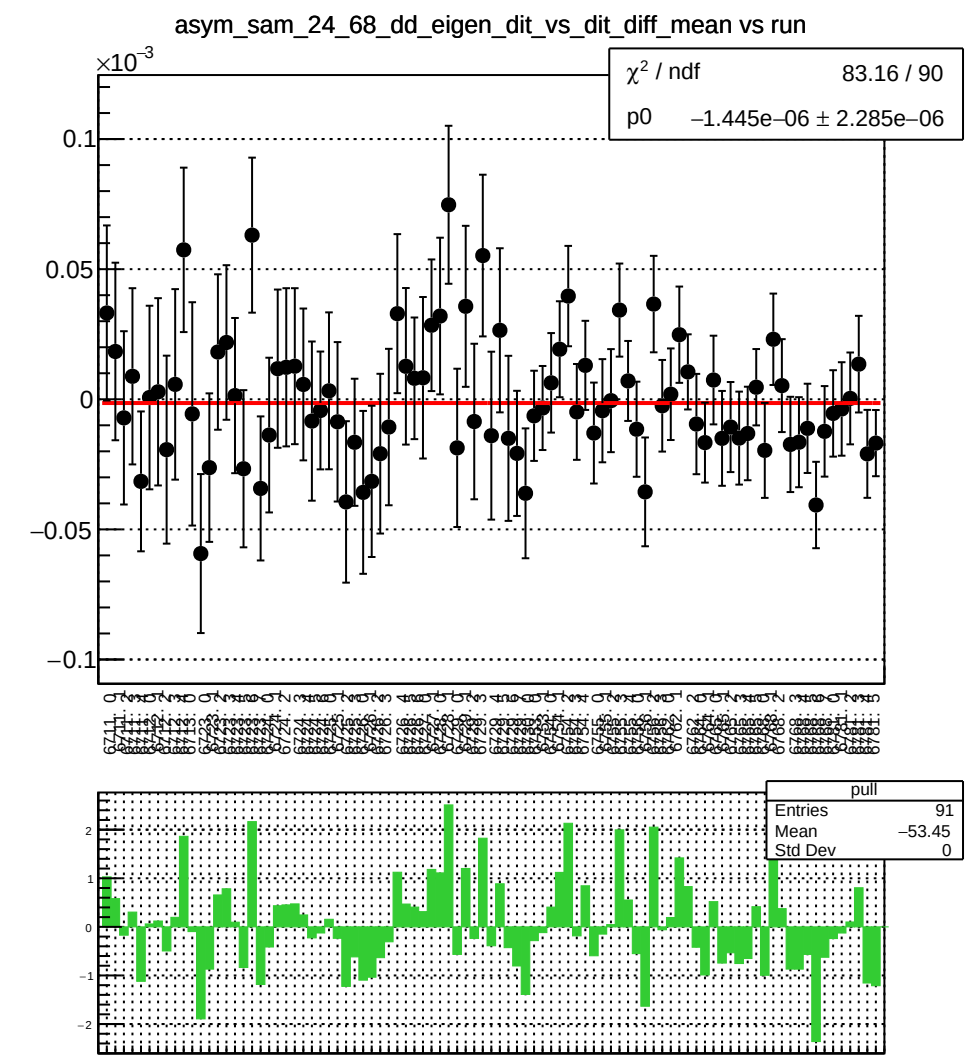

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 120.4 / 90
p0 −0.01493 ± 0.0459
pull
Entries 91
Mean 72.08
Std Dev 57.42

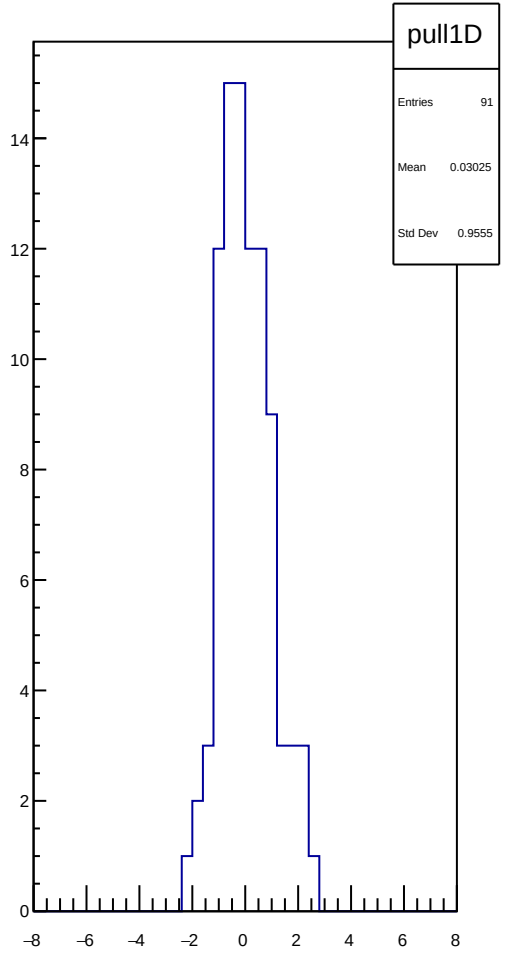

pull1D
Entries 91
Mean 0.04514
Std Dev 1.149

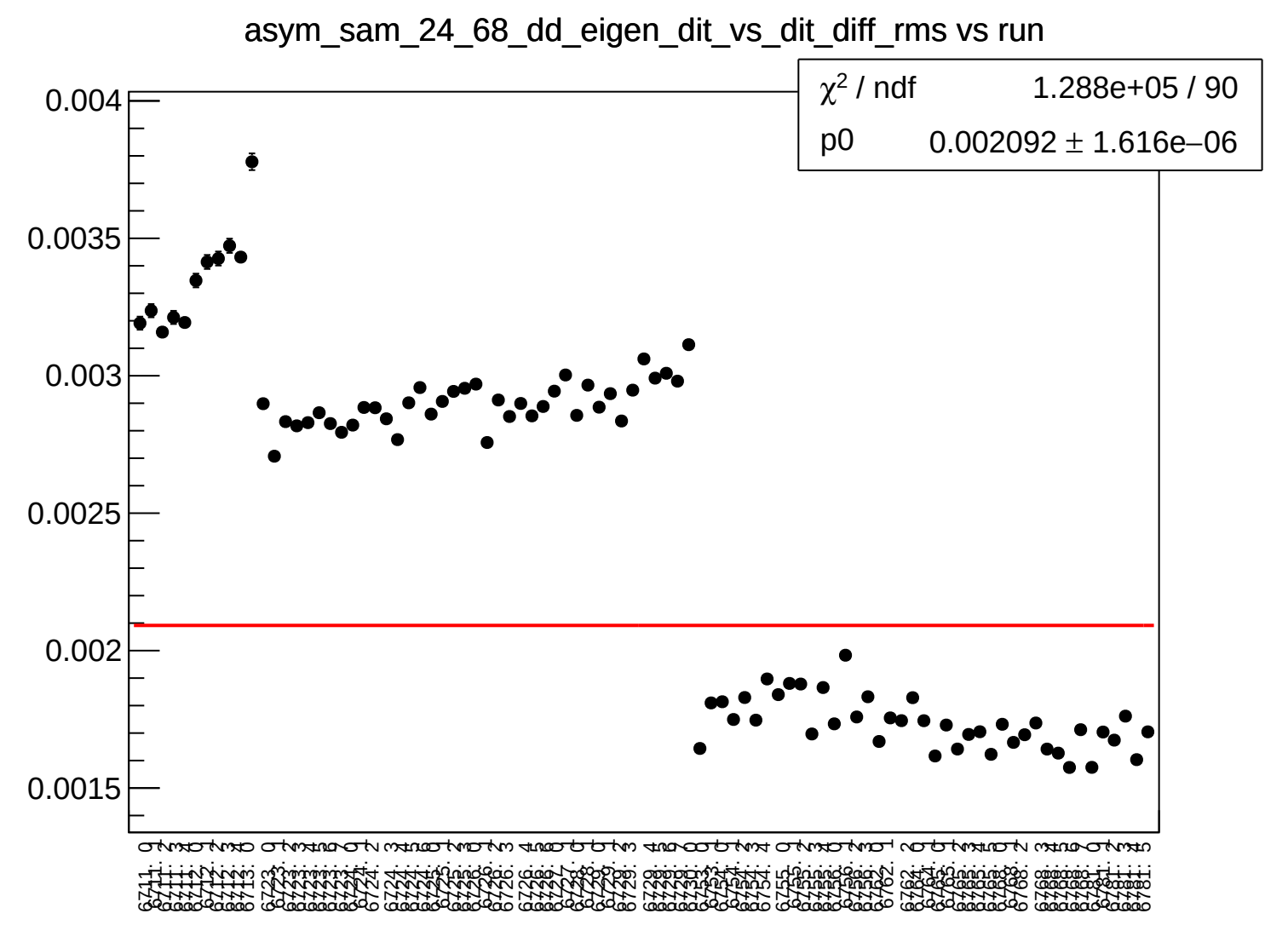

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.363e+05 / 90
p0 39.33 ± 0.03246
140
120
100
80
60
40

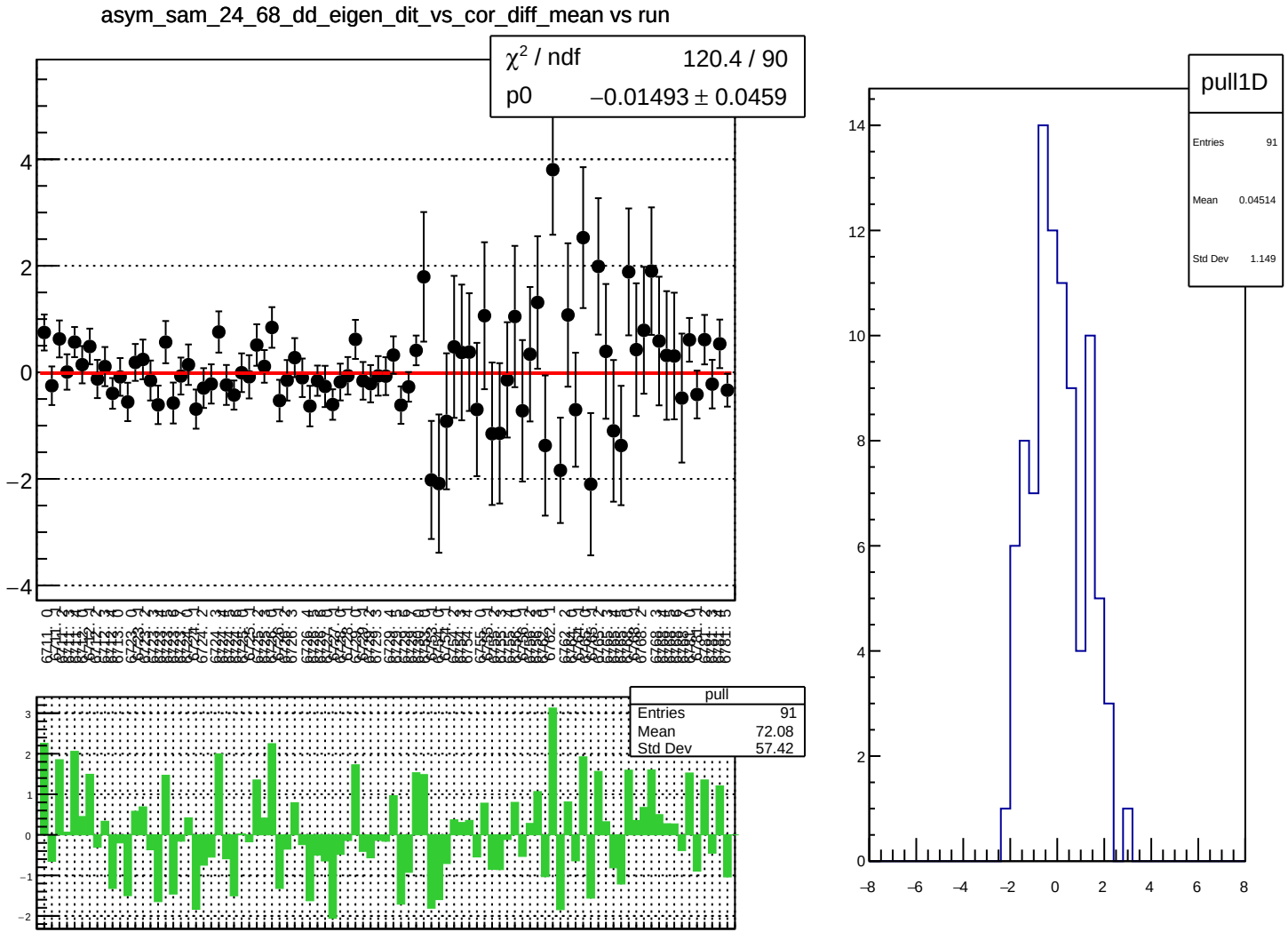

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120.4 / 90
p0 −0.01493 ± 0.0459
pull
Entries 91
Mean 72.08
Std Dev 57.42
pull1D
Entries 91
Mean 0.04514
Std Dev 1.149

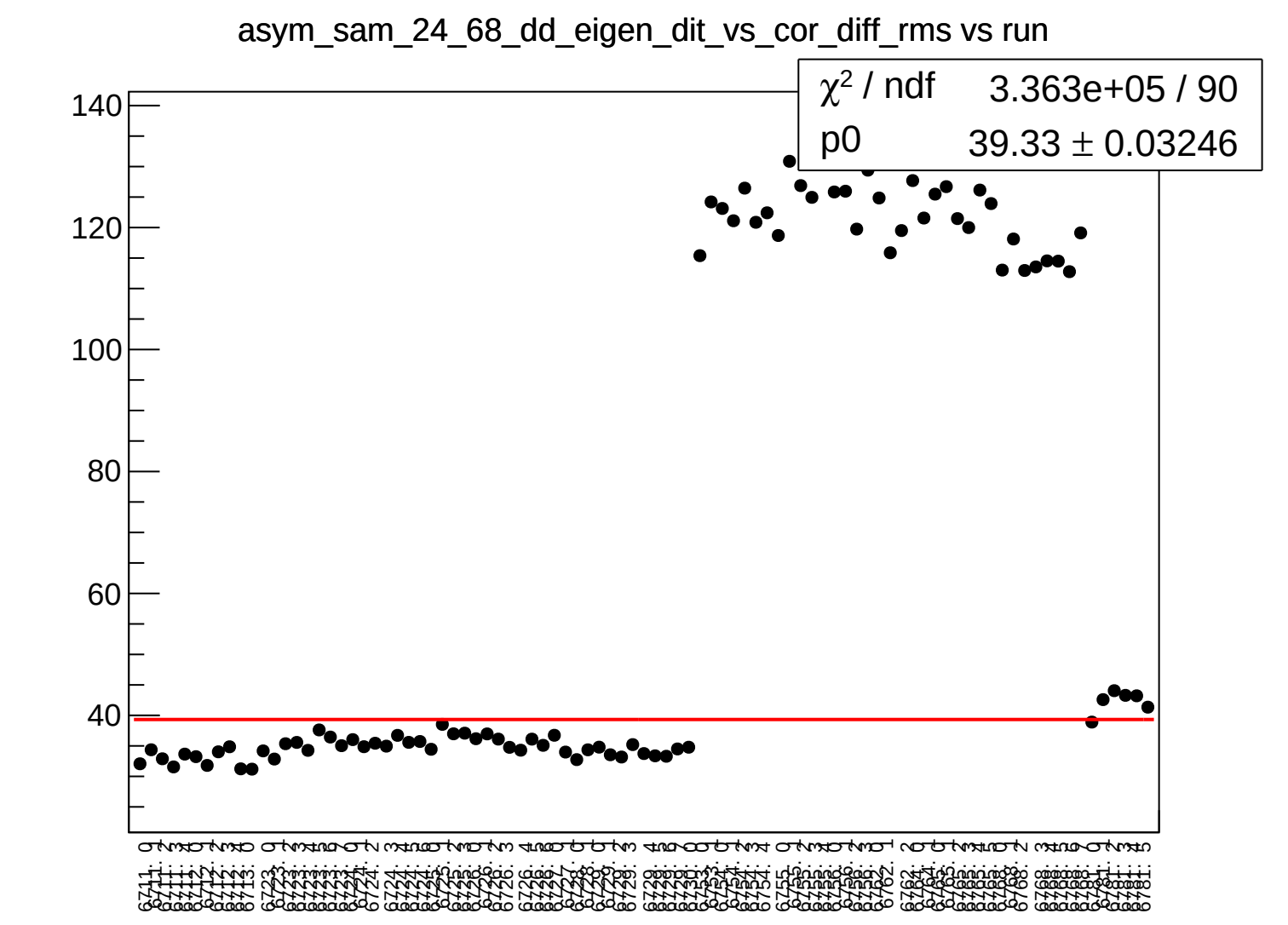

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.363e+05 / 90
p0 39.33 ± 0.03246
140
120
100
80
60
40

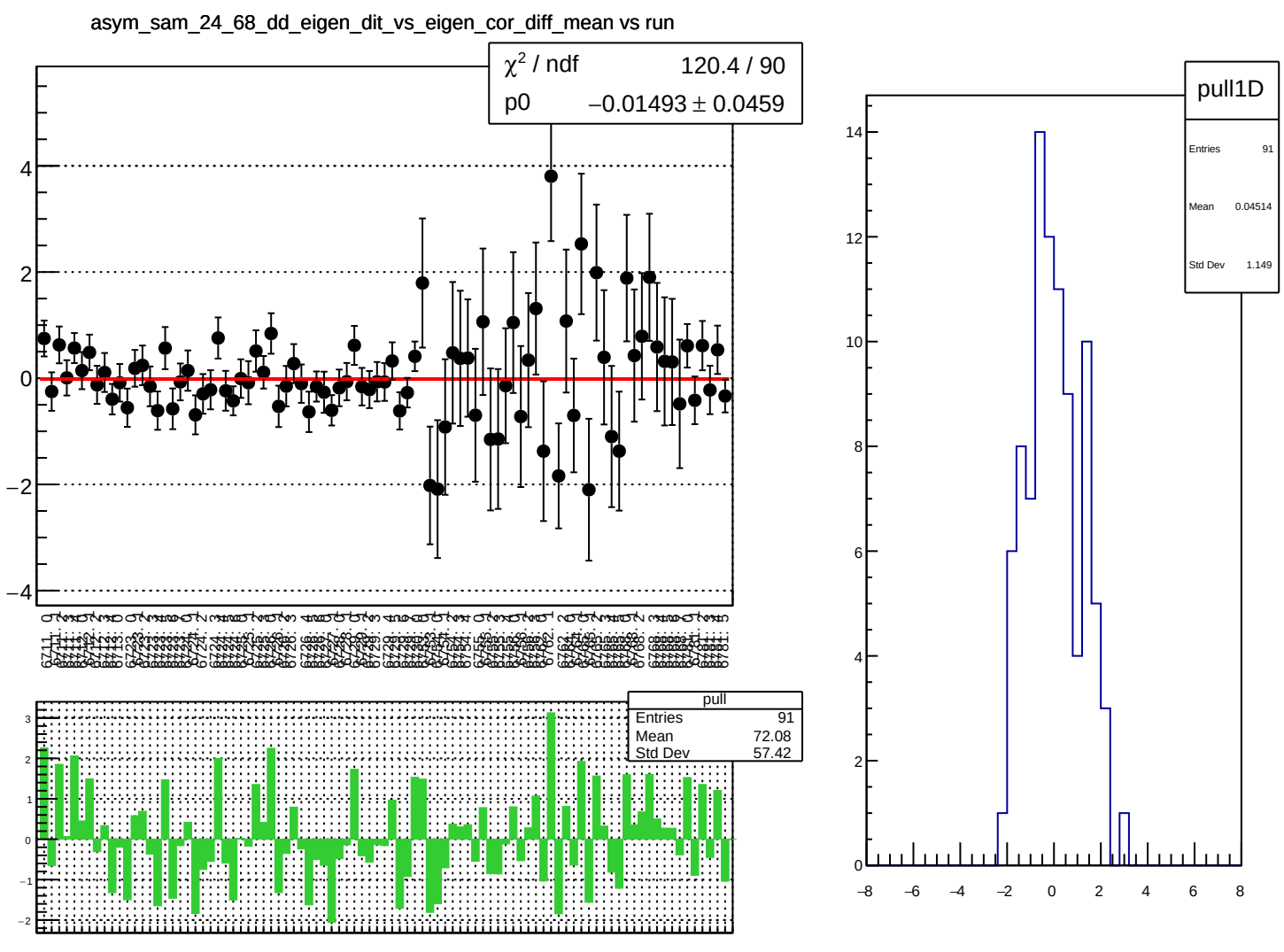

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.16 / 90
p0 −1.445e−06 ± 2.285e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean −53.45
Std Dev 0
2
1
0
−1
−2

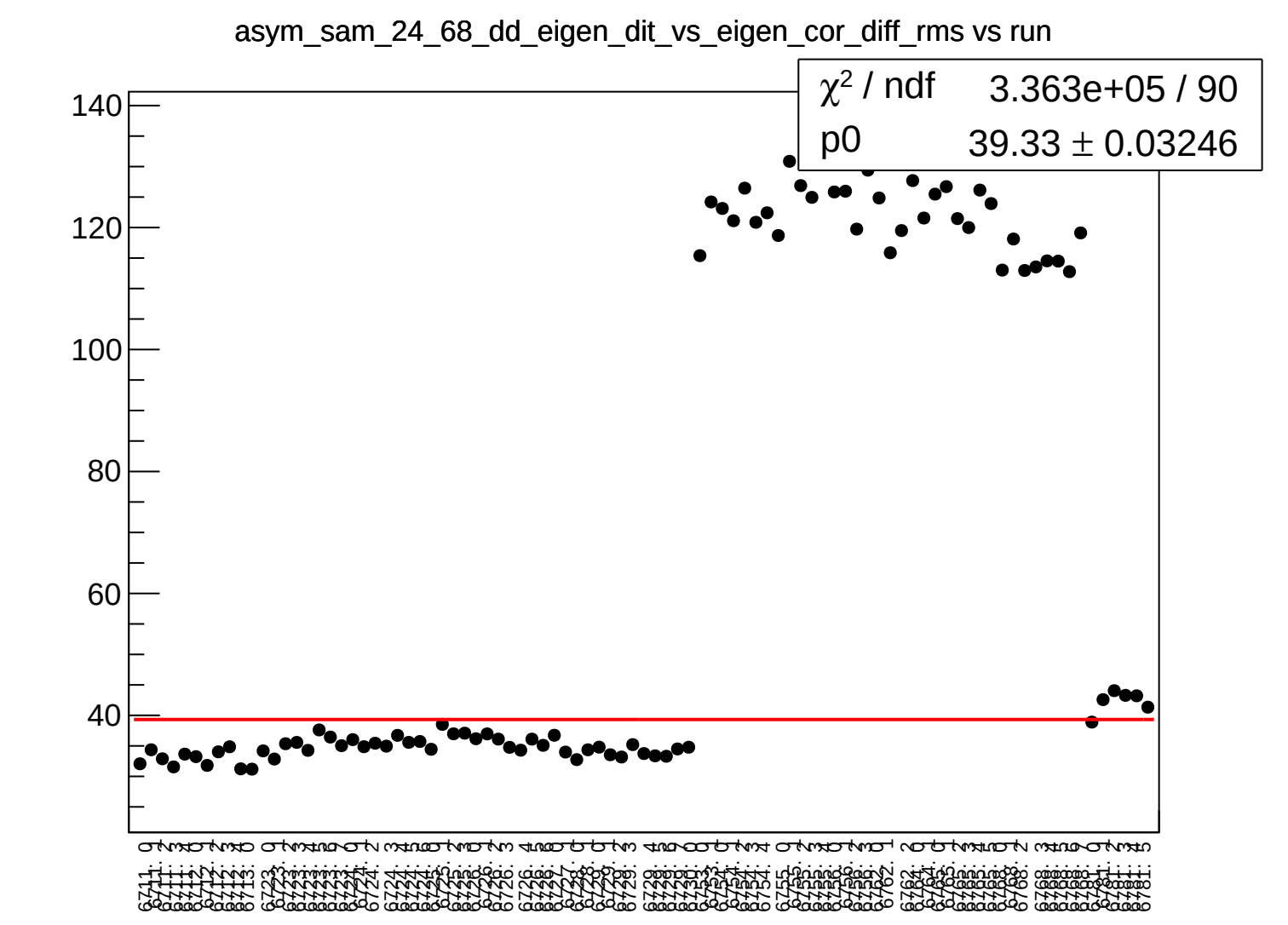

pull1D
Entries 91
Mean 0.03025
Std Dev 0.9555
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

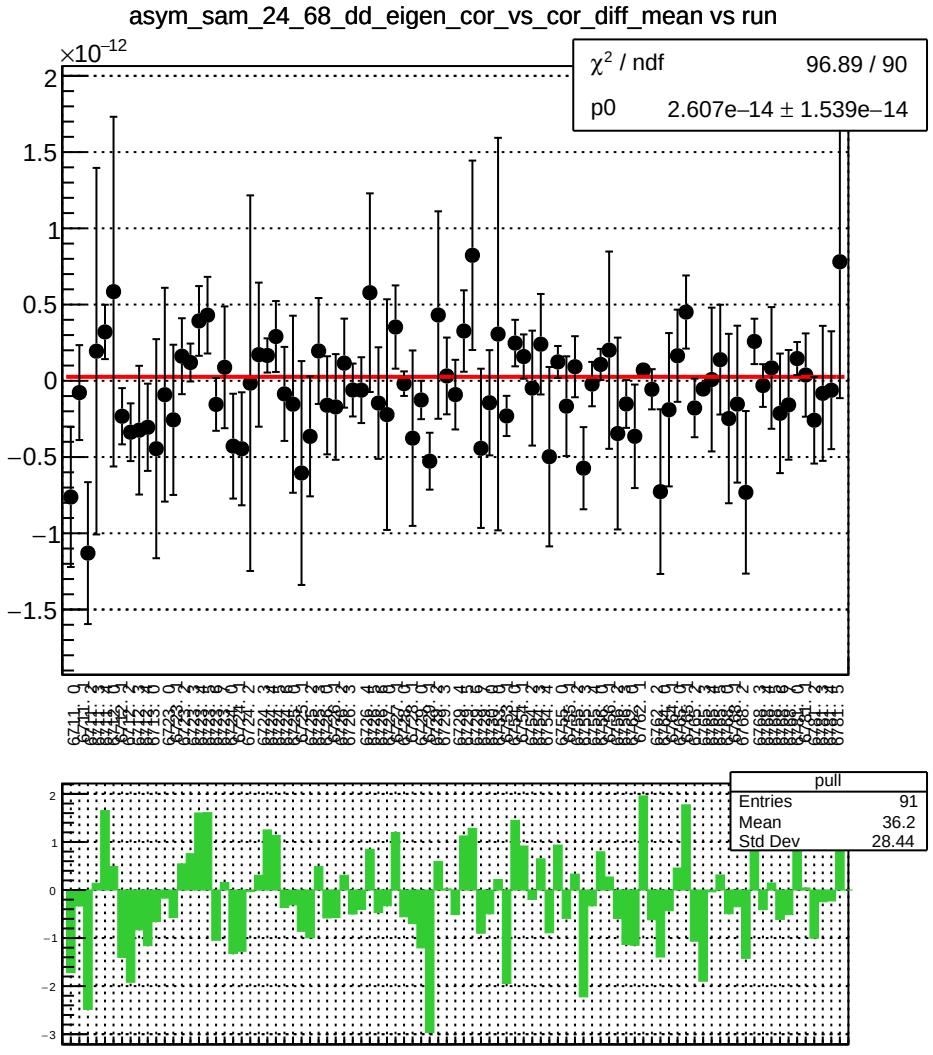

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.288e+05 / 90
p0 0.002092 ± 1.616e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

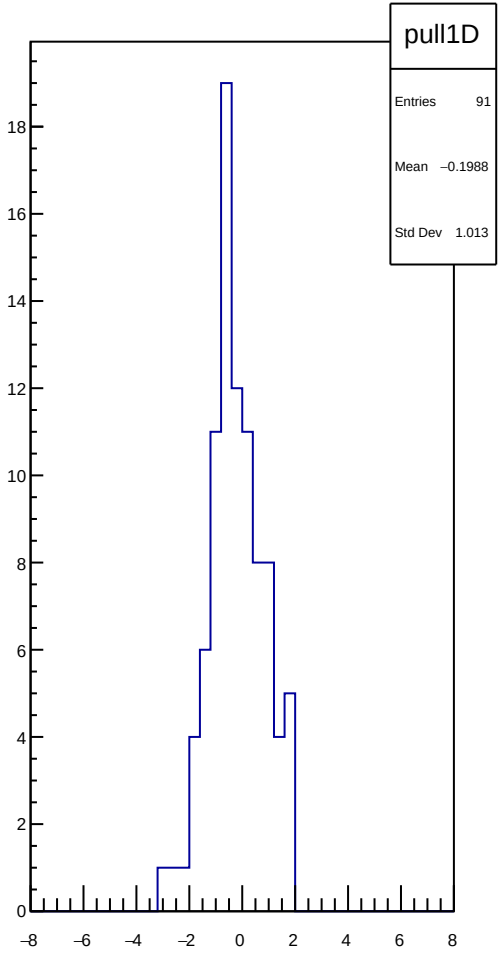

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 120.4 / 90
p0 −0.01493 ± 0.0459
pull
Entries 91
Mean 72.08
Std Dev 57.42
pull1D
Entries 91
Mean 0.04514
Std Dev 1.149

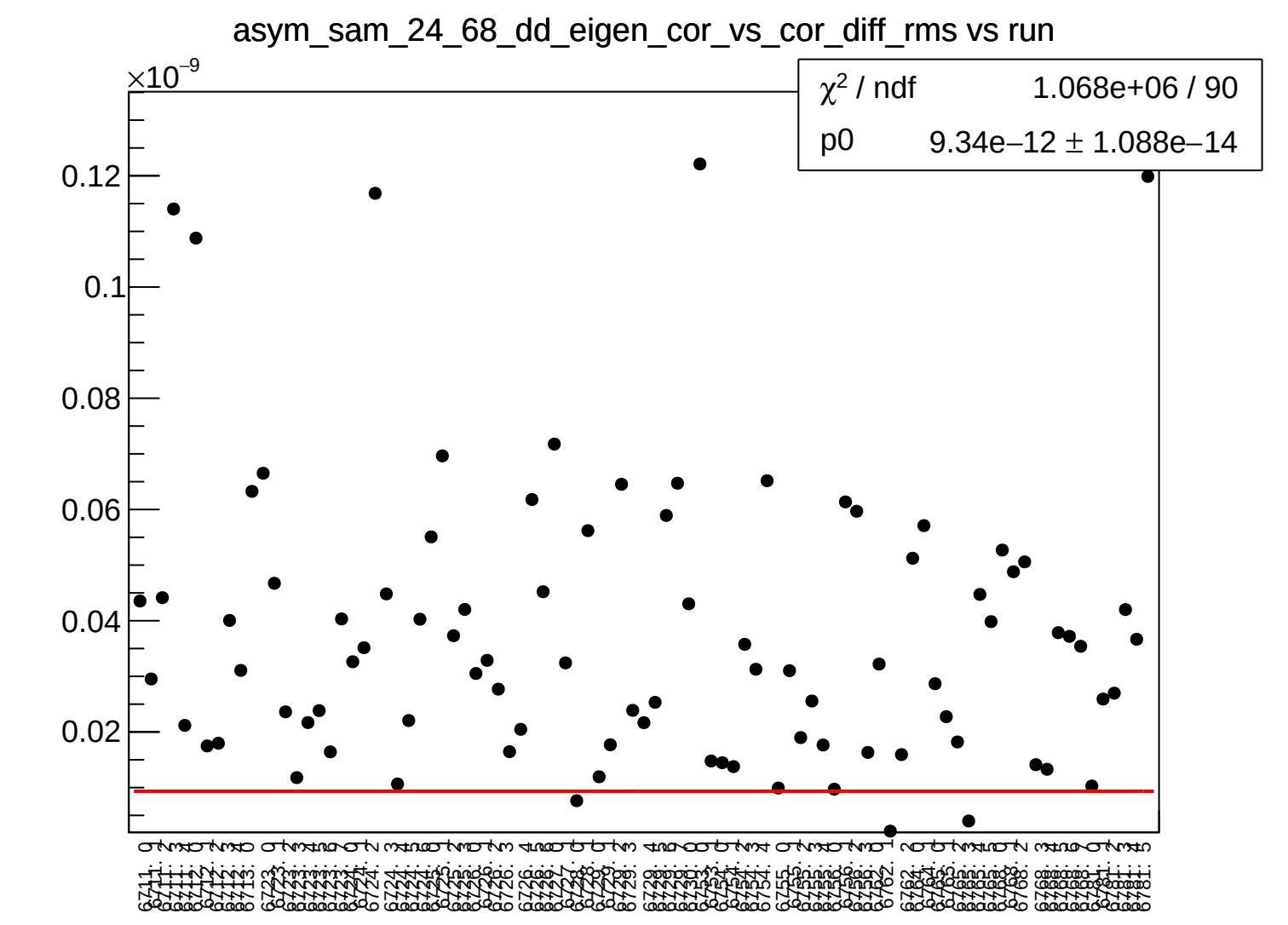

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.363e+05 / 90
p0 39.33 ± 0.03246
140
120
100
80
60
40

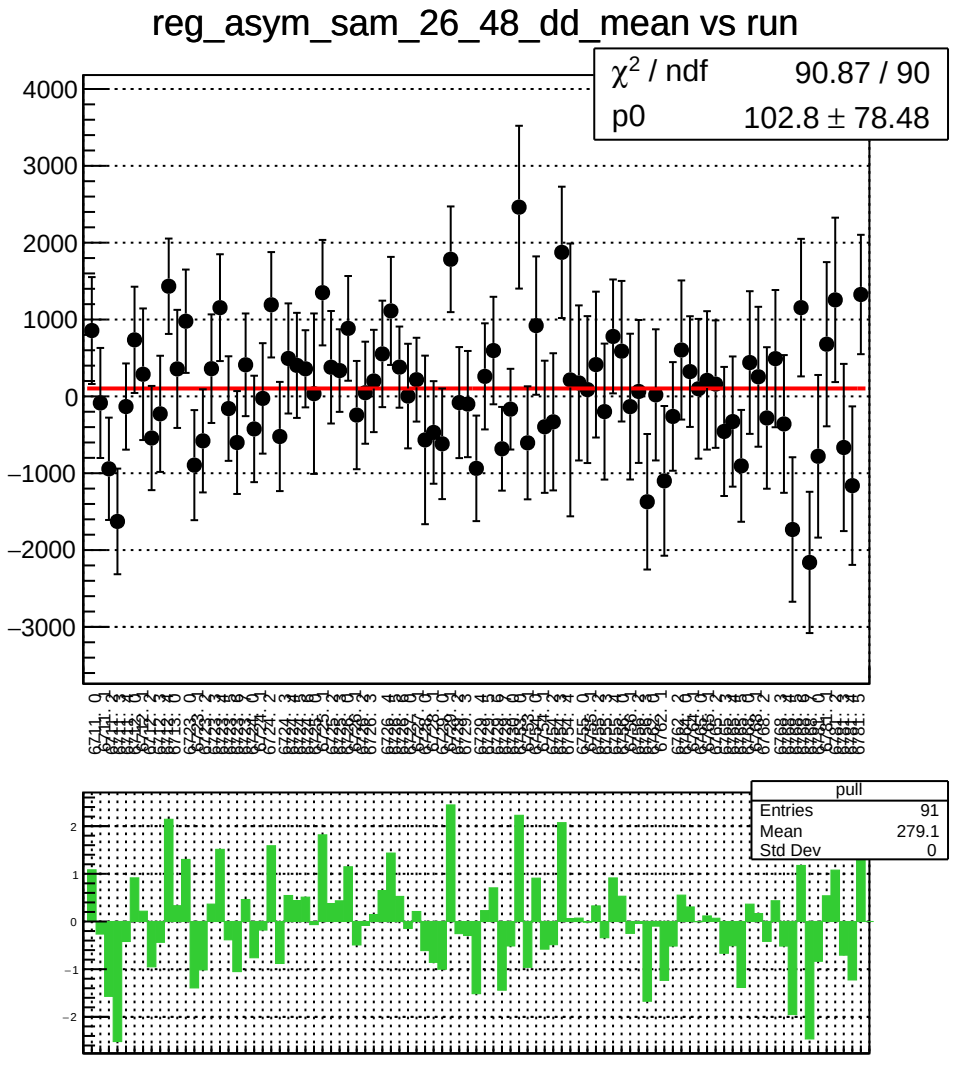

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120.4 / 90
p0 −0.01493 ± 0.0459
pull
Entries 91
Mean 72.08
Std Dev 57.42
pull1D
Entries 91
Mean 0.04514
Std Dev 1.149

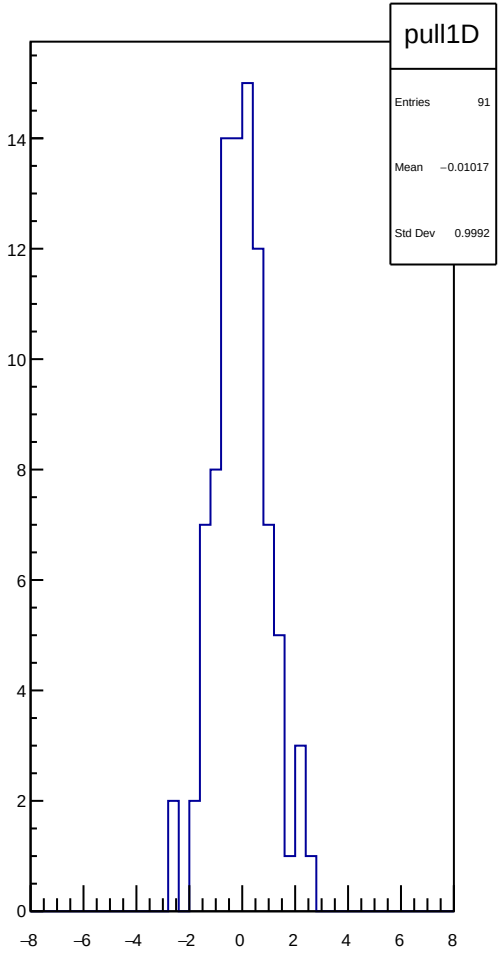

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.363e+05 / 90
p0 39.33 ± 0.03246
140
120
100
80
60
40

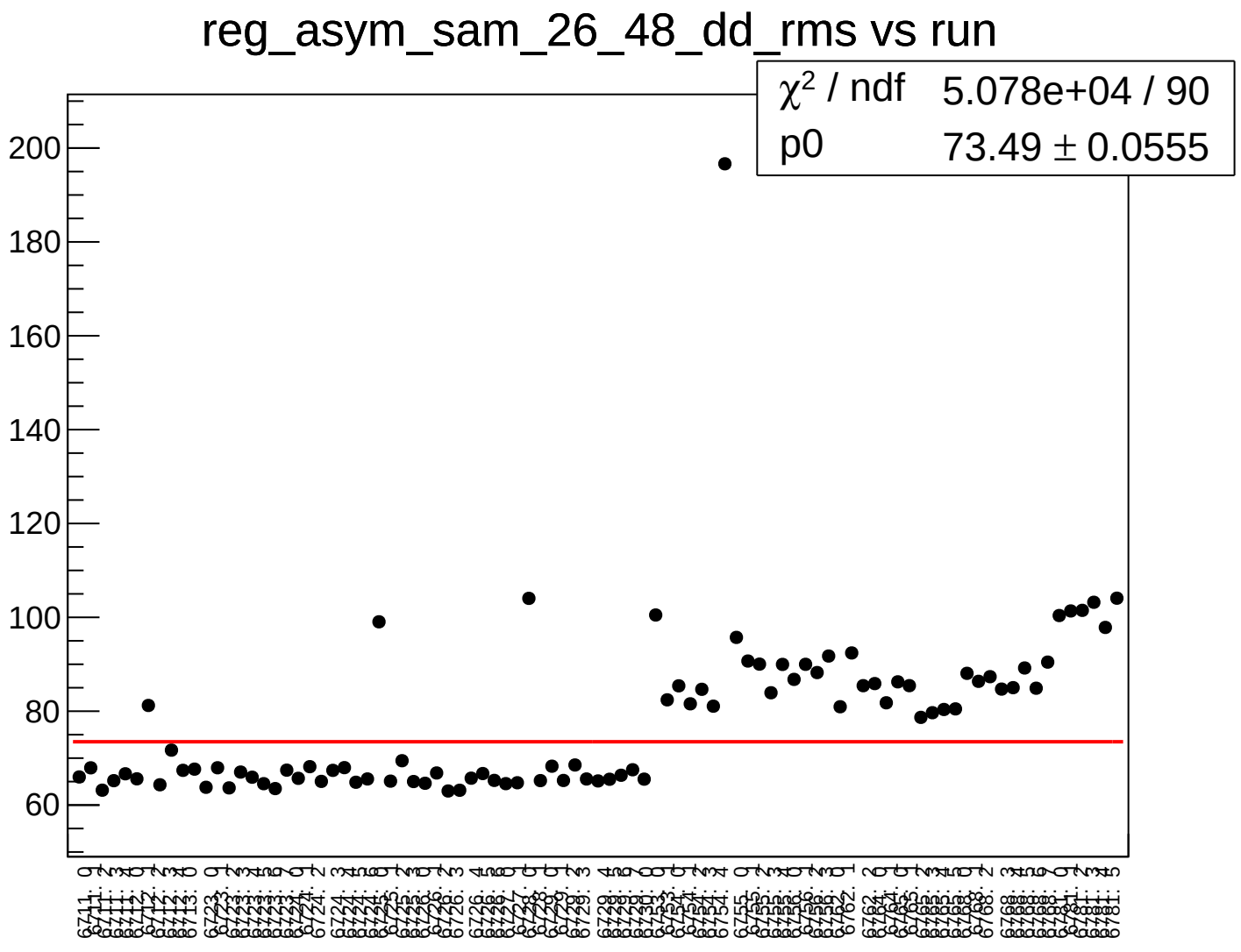

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.89 / 90
p0 2.607e−14 ± 1.539e−14
pull
Entries 91
Mean 36.2
Std Dev 28.44

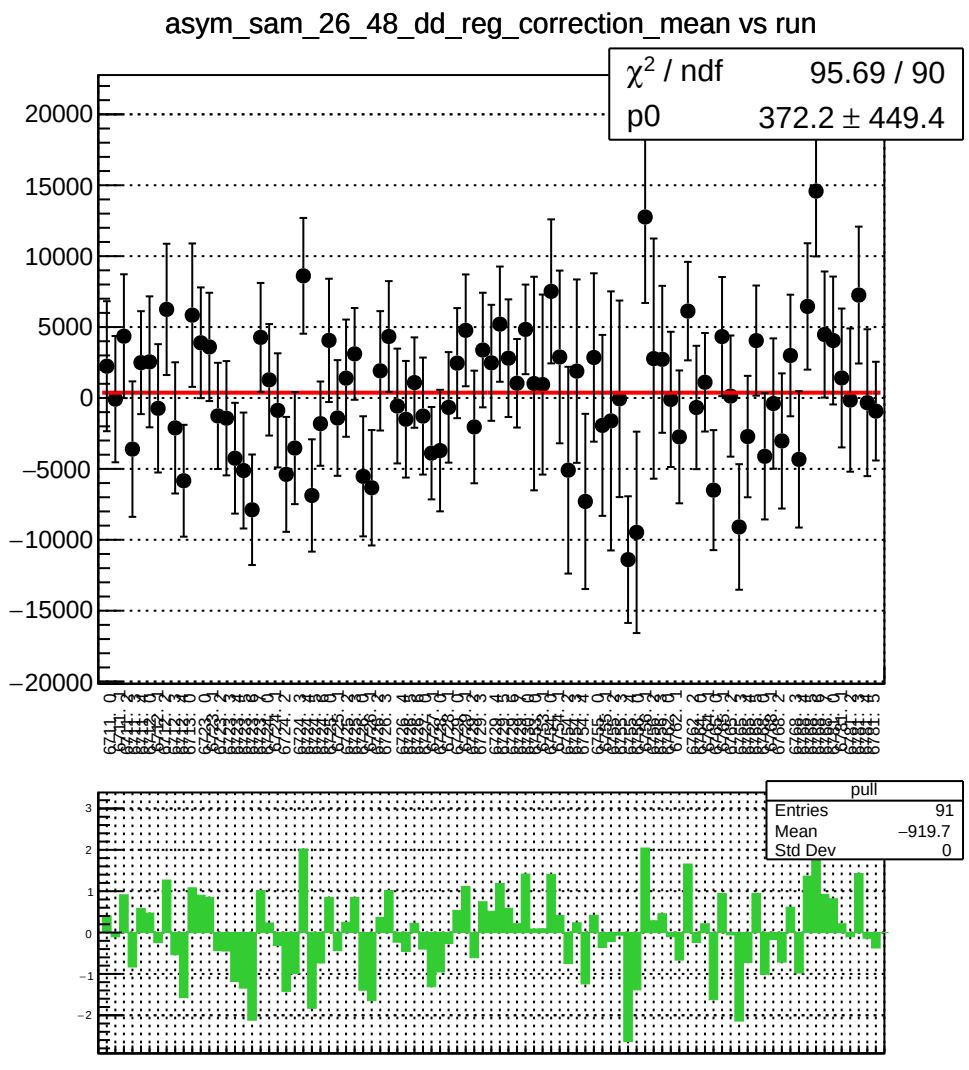

pull1D
Entries 91
Mean −0.1988
Std Dev 1.013

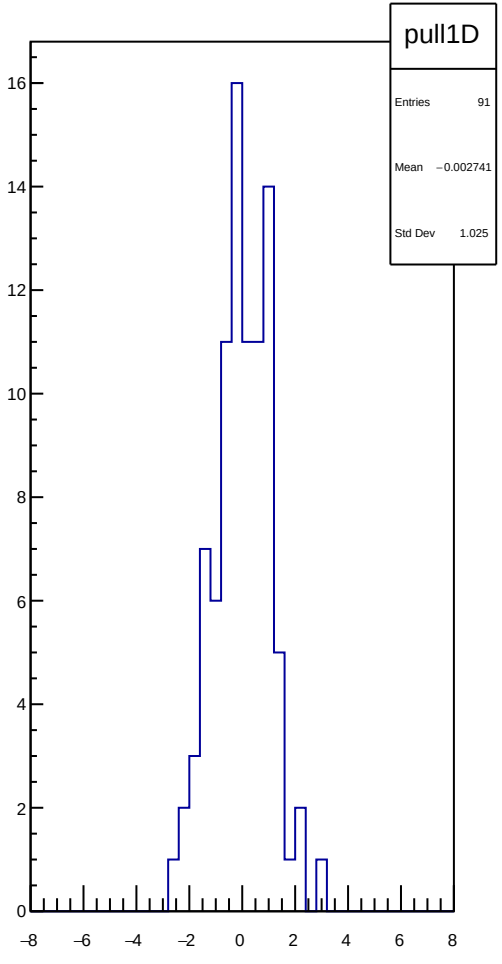

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.068e+06 / 90
p0 9.34e−12 ± 1.088e−14
0.12
0.1
0.08
0.06
0.04
0.02

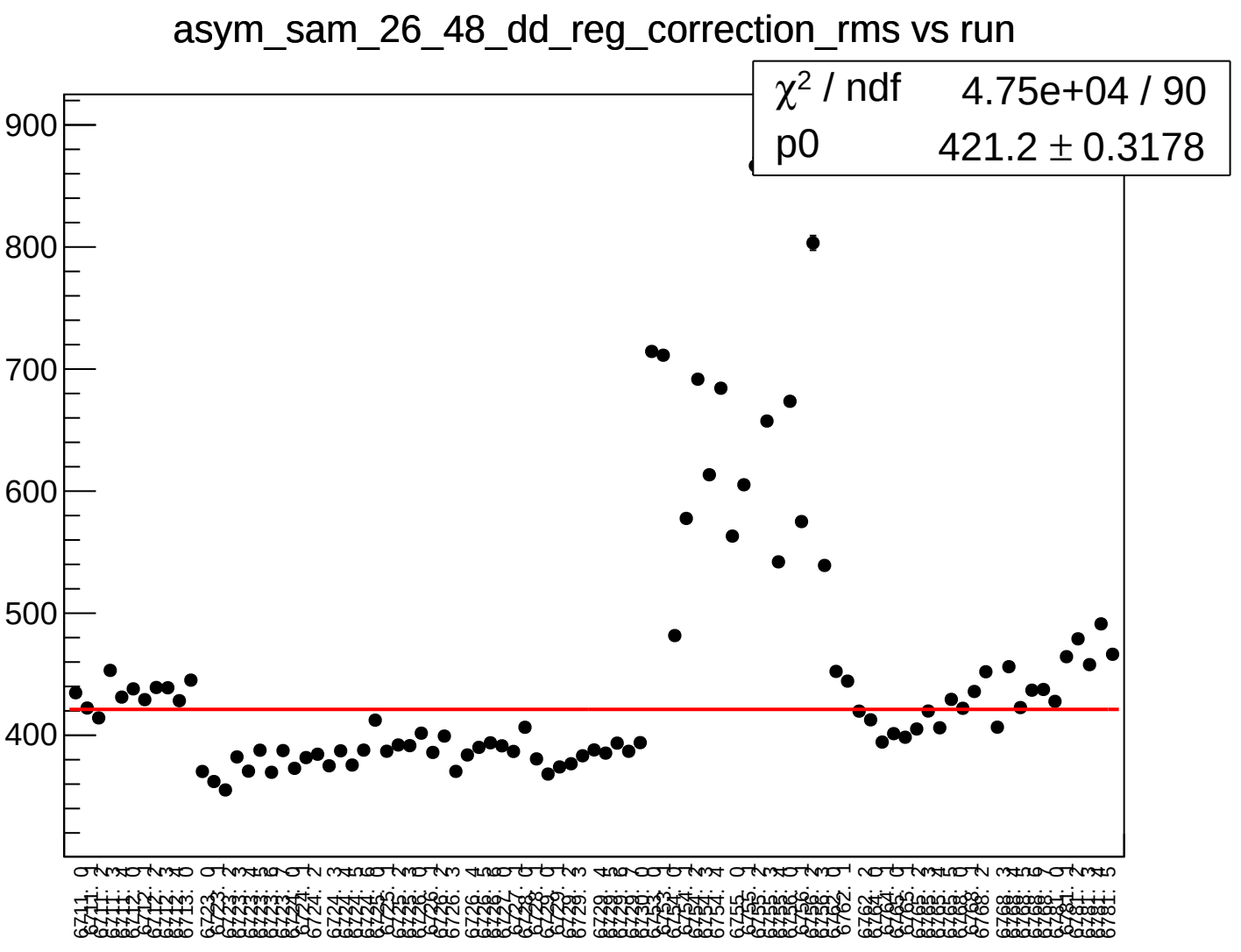

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 90.87 / 90
p0 102.8 ± 78.48
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 279.1
Std Dev 0
2
1
0
−1
−2

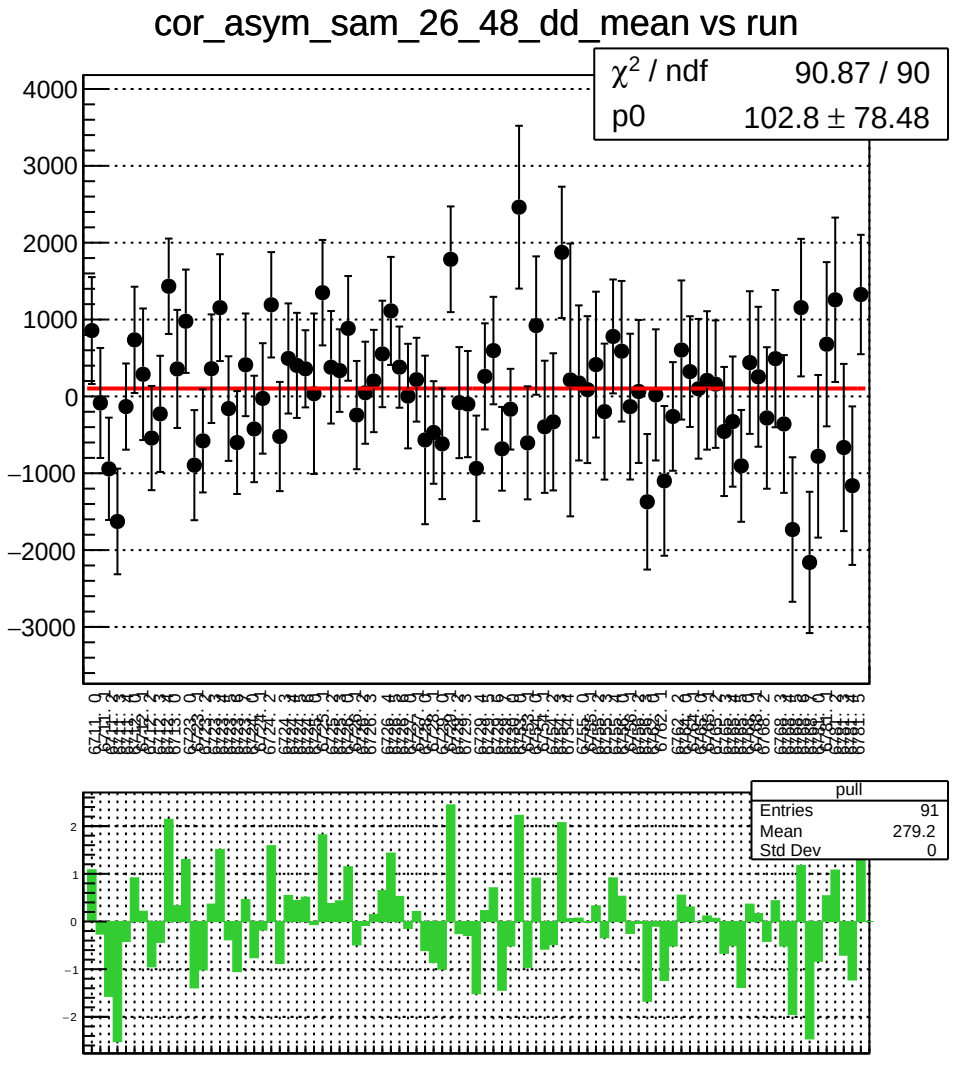

pull1D
Entries 91
Mean −0.01017
Std Dev 0.9992
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

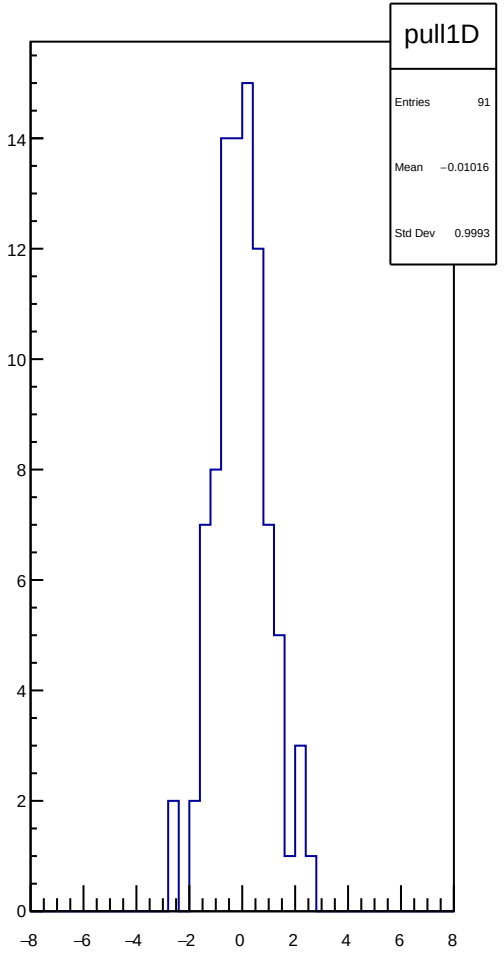

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 5.078e+04 / 90
p0 73.49 ± 0.0555
200
180
160
140
120
100
80
60

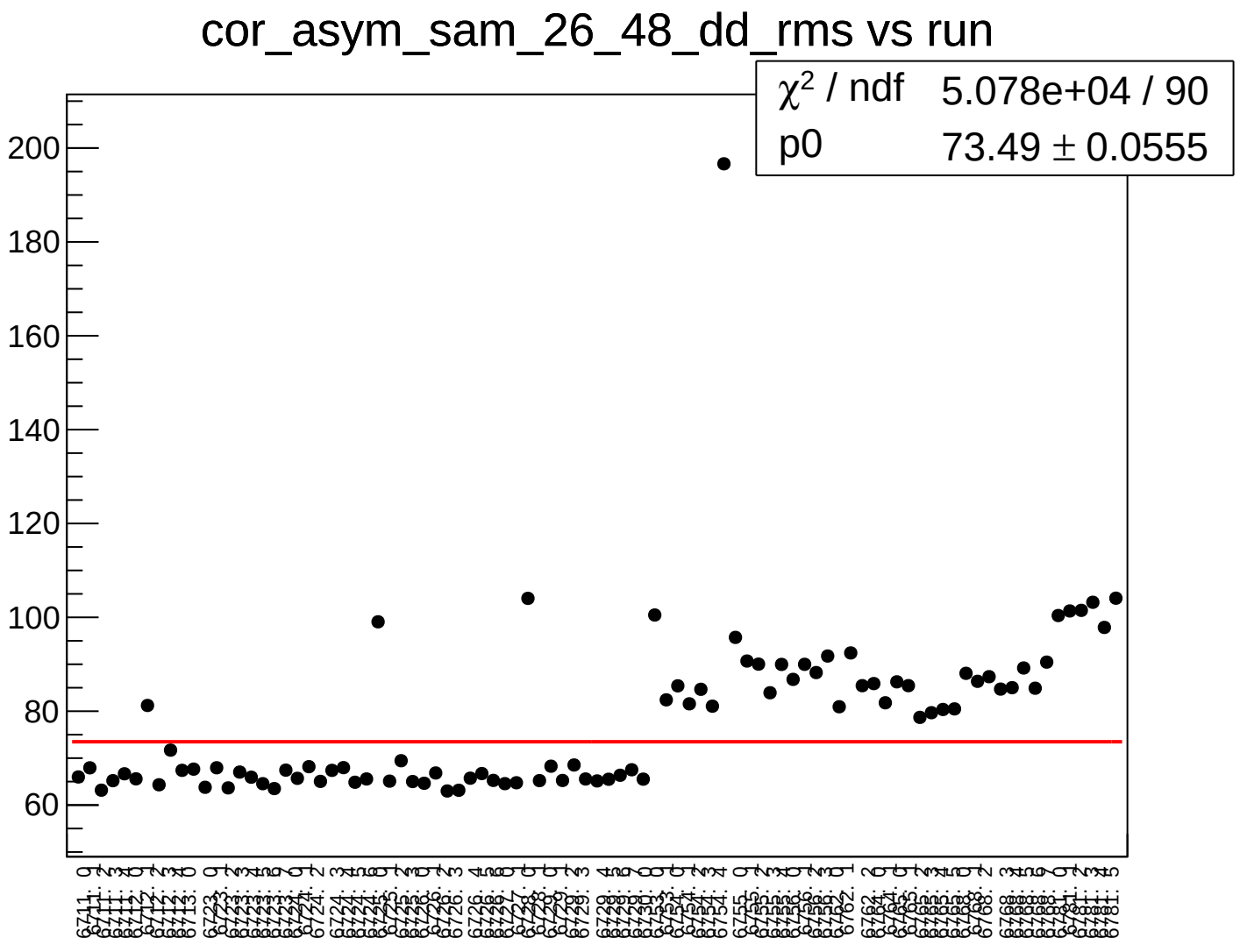

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 95.69 / 90
p0 372.2 ± 449.4
pull
Entries 91
Mean −919.7
Std Dev 0

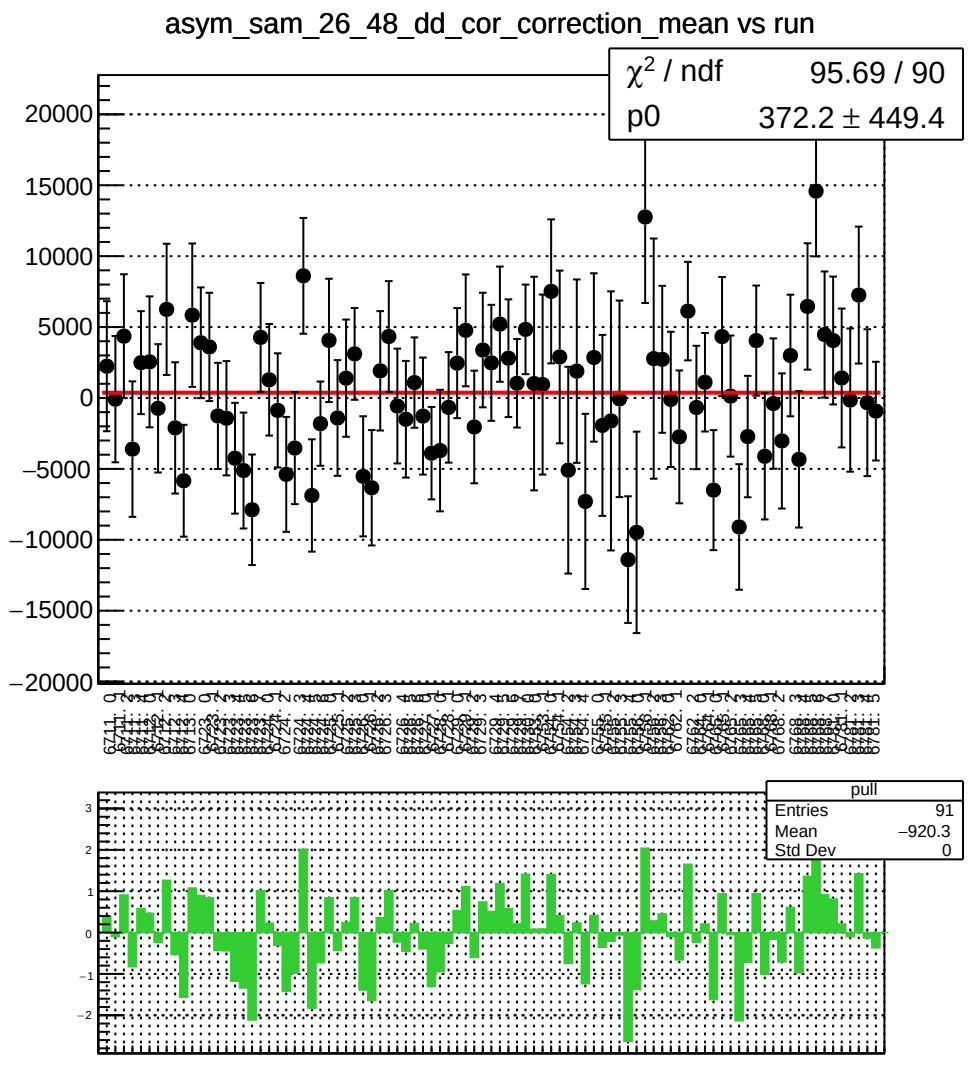

pull1D
Entries 91
Mean −0.002741
Std Dev 1.025

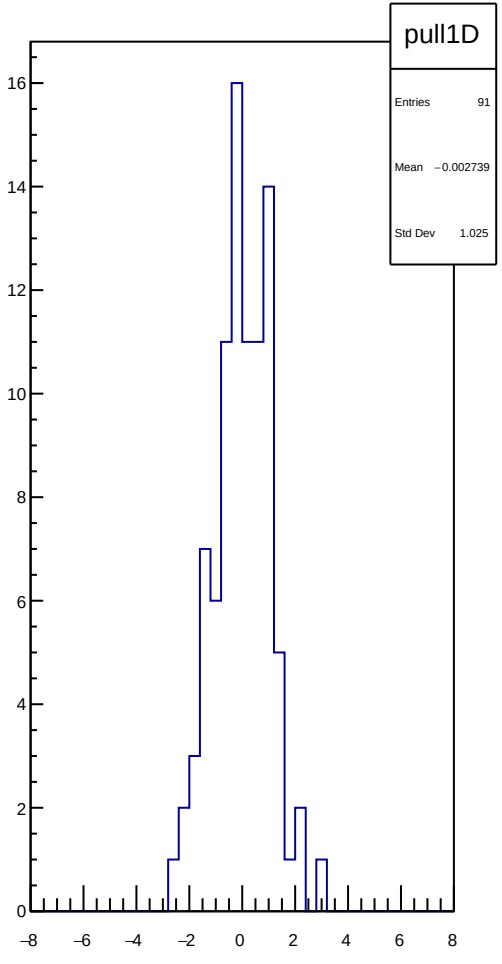

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 4.75e+04 / 90
p0 421.2 ± 0.3178
900
800
700
600
500
400

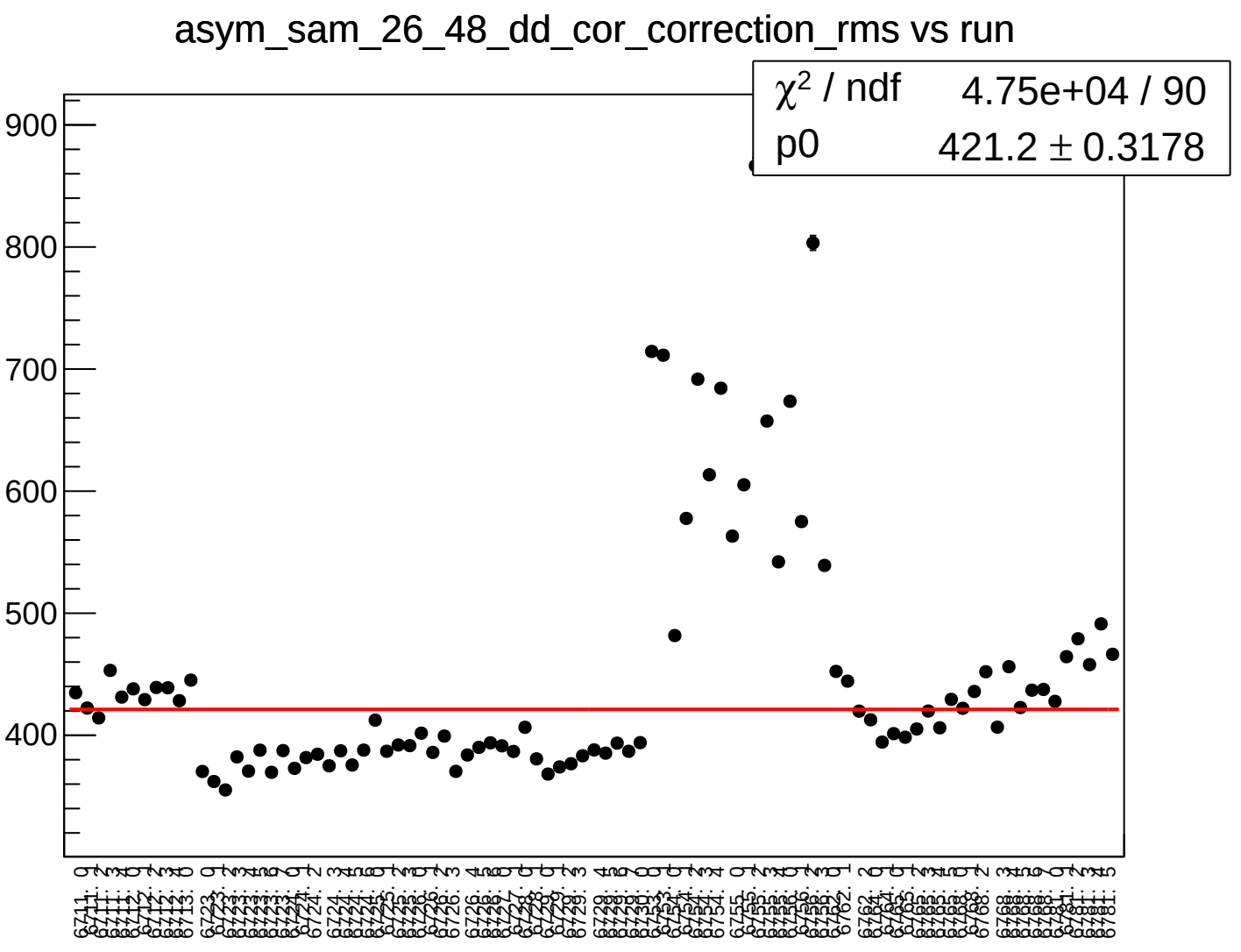

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 90.87 / 90
p0 102.8 ± 78.48
pull
Entries 91
Mean 279.2
Std Dev 0

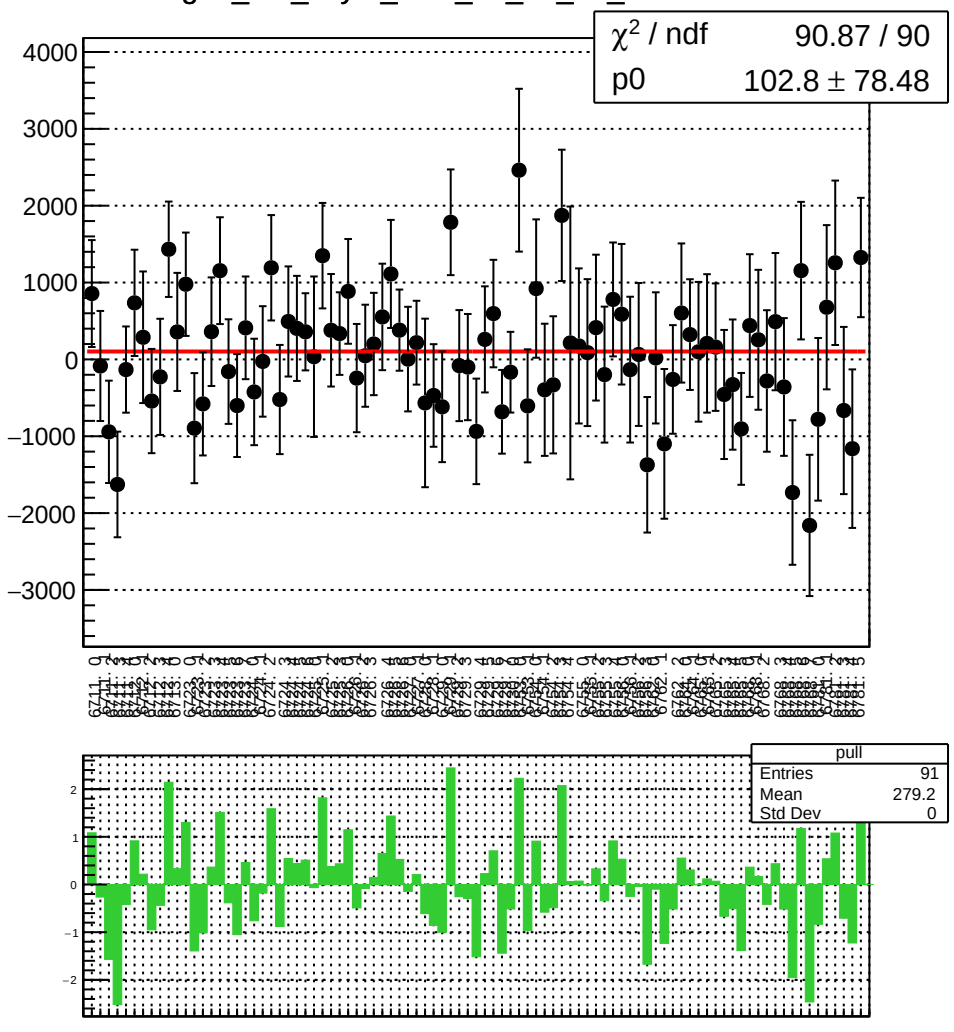

pull1D
Entries 91
Mean −0.01016
Std Dev 0.9993

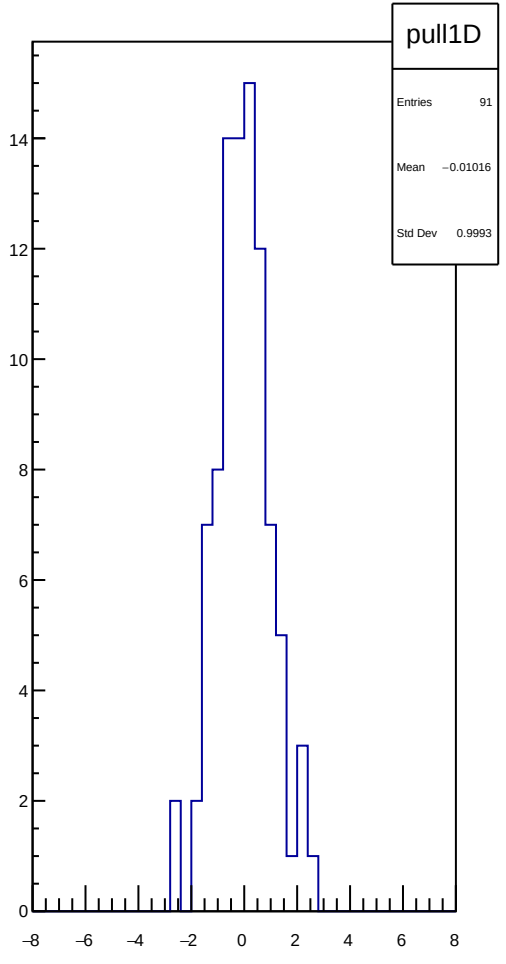

cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 5.078e+04 / 90
p0 73.49 ± 0.0555
200
180
160
140
120
100
80
60

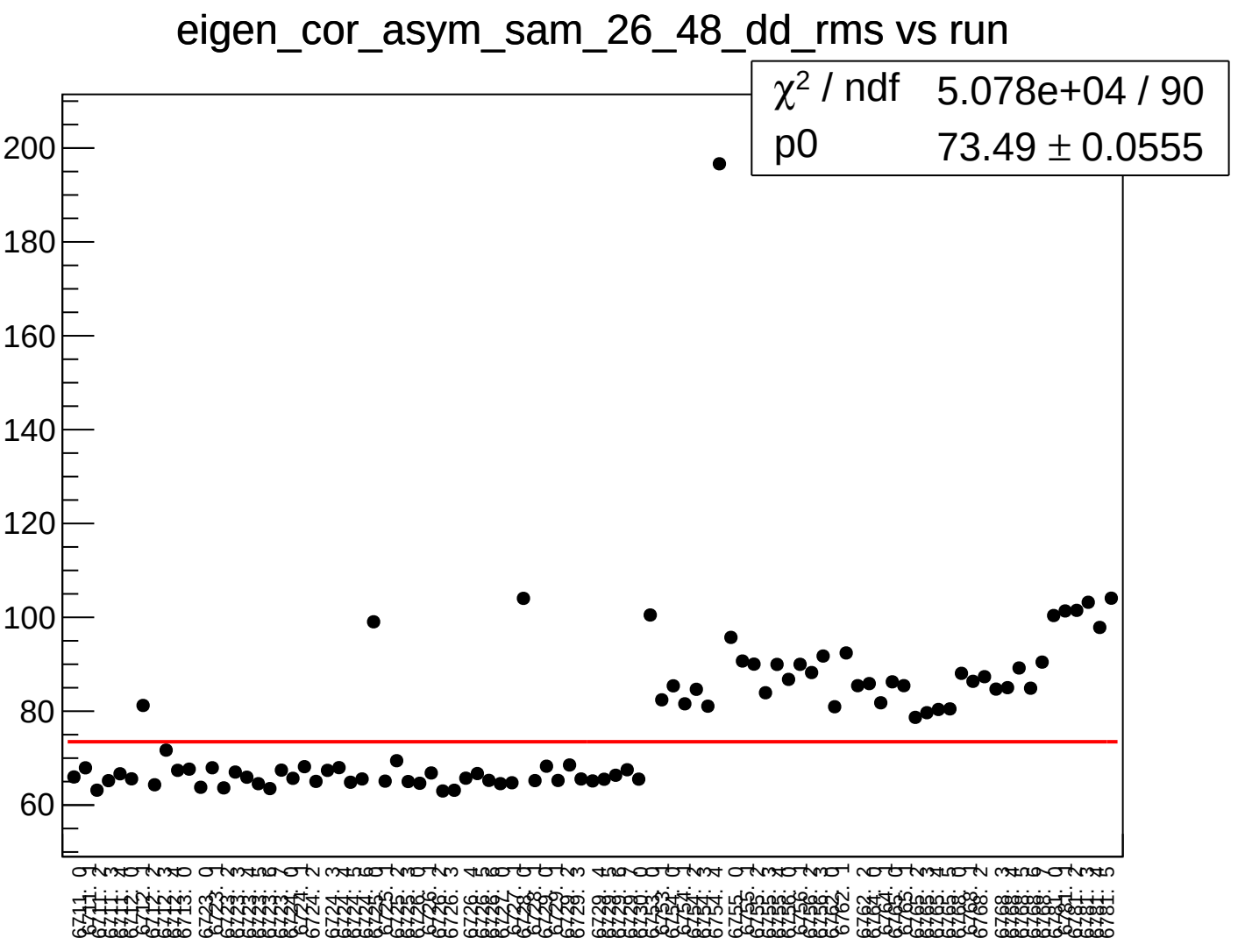

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 95.69 / 90
p0 372.2 ± 449.4
pull
Entries 91
Mean −920.3
Std Dev 0

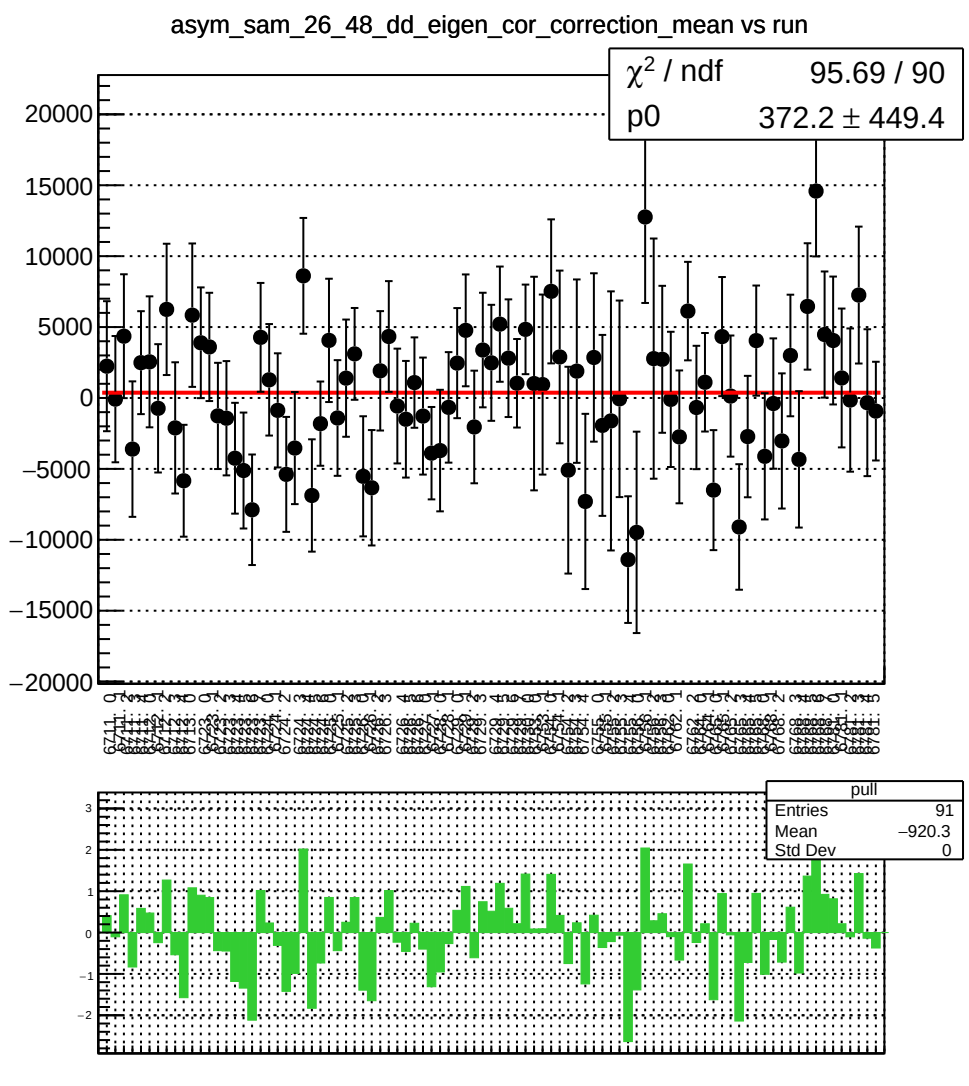

pull1D
Entries 91
Mean −0.002739
Std Dev 1.025

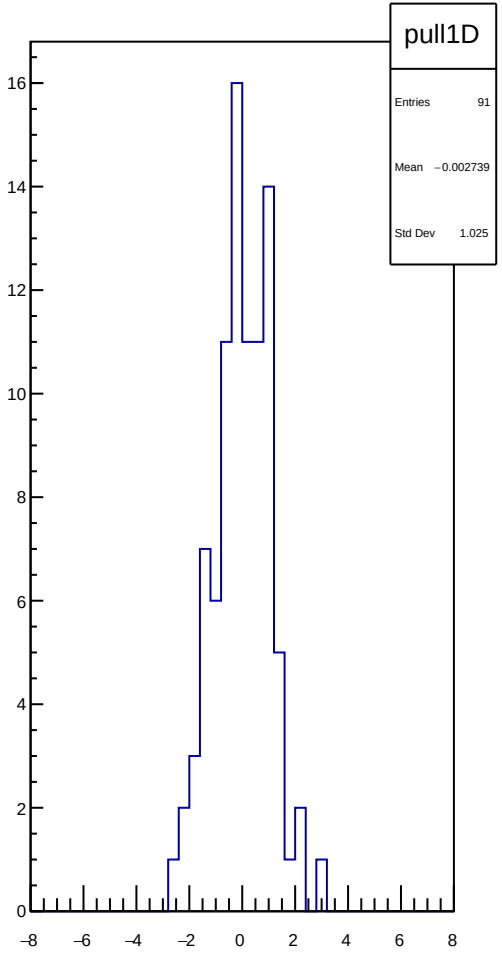

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 4.75e+04 / 90
p0 421.2 ± 0.3178
900
800
700
600
500
400

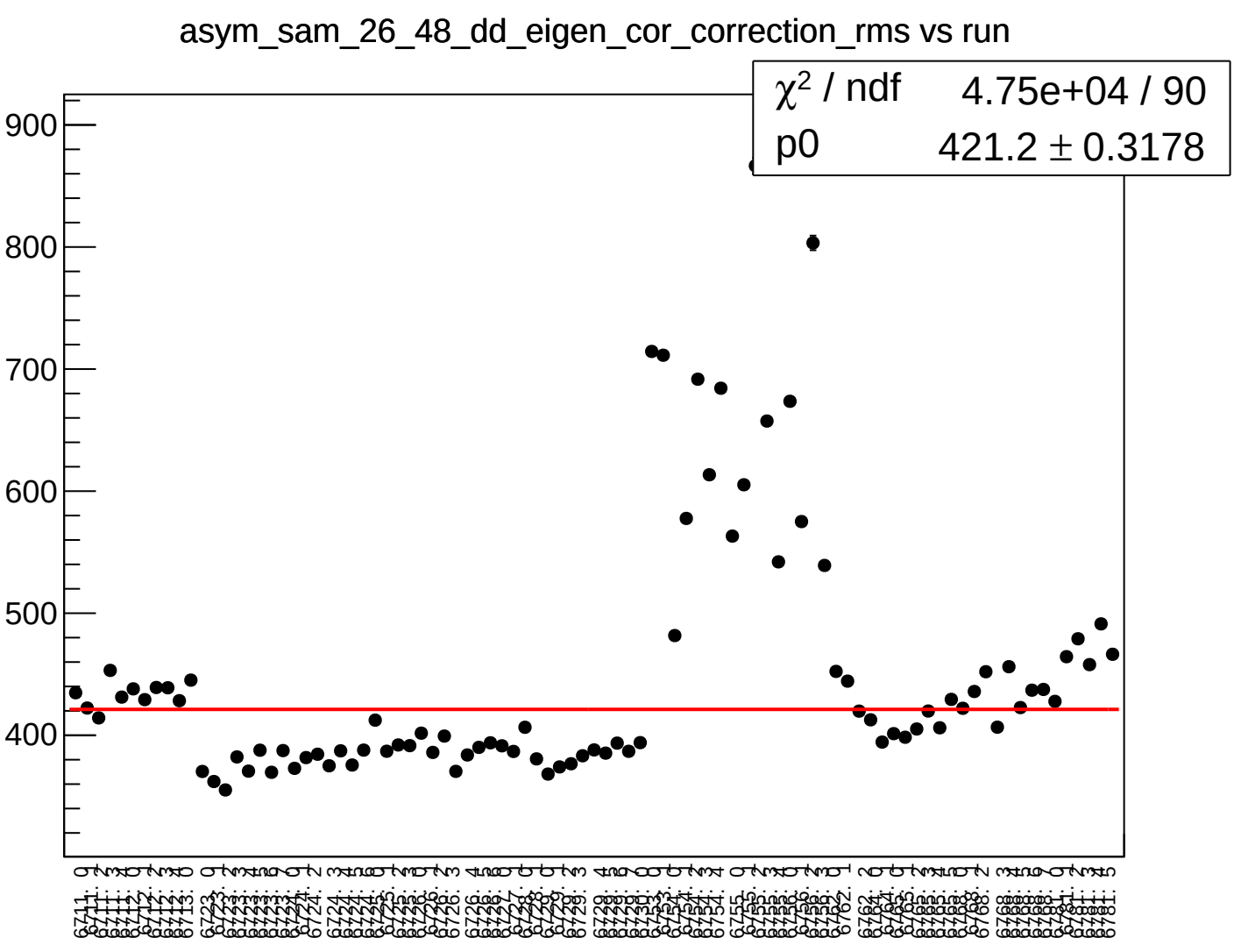

eigen_cor_asym_sam_26_48_dd_mean vs run
χ^2 / ndf 90.87 / 90
p0 102.8 ± 78.48
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 279.2
Std Dev 0
2
1
0
−1
−2

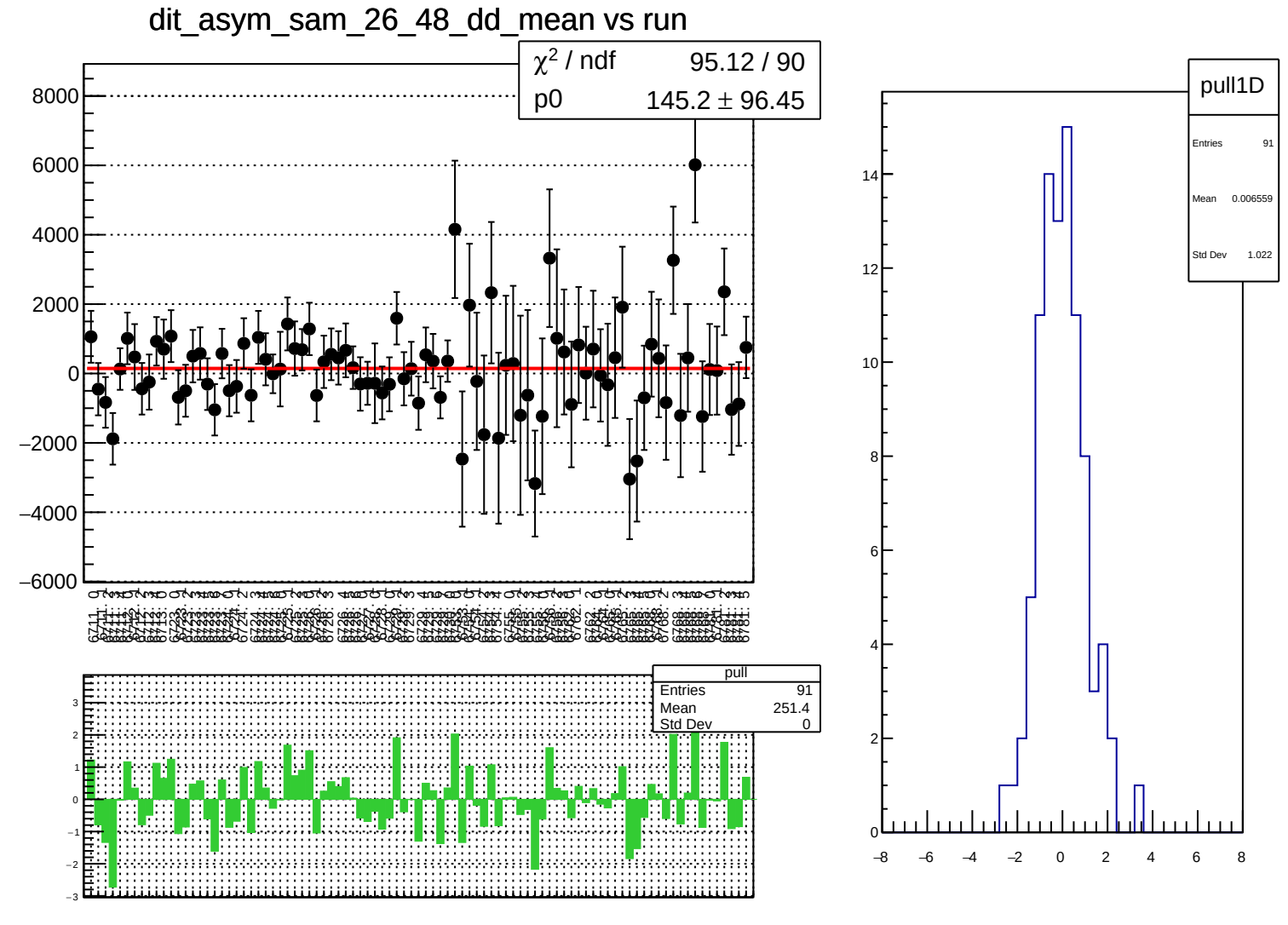

pull1D
Entries 91
Mean −0.01016
Std Dev 0.9993
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

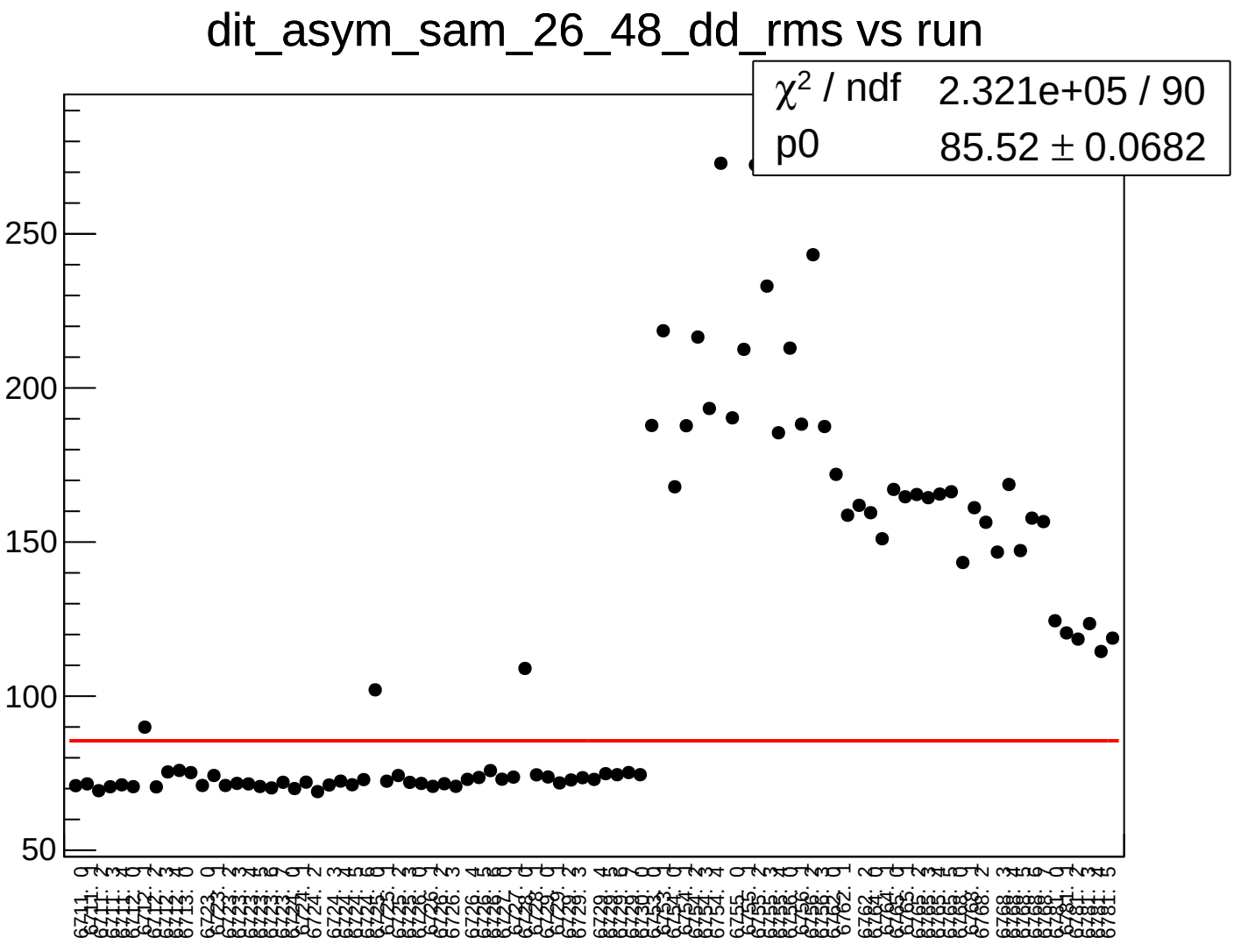

eigen_cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 5.078e+04 / 90
p0 73.49 ± 0.0555
200
180
160
140
120
100
80
60

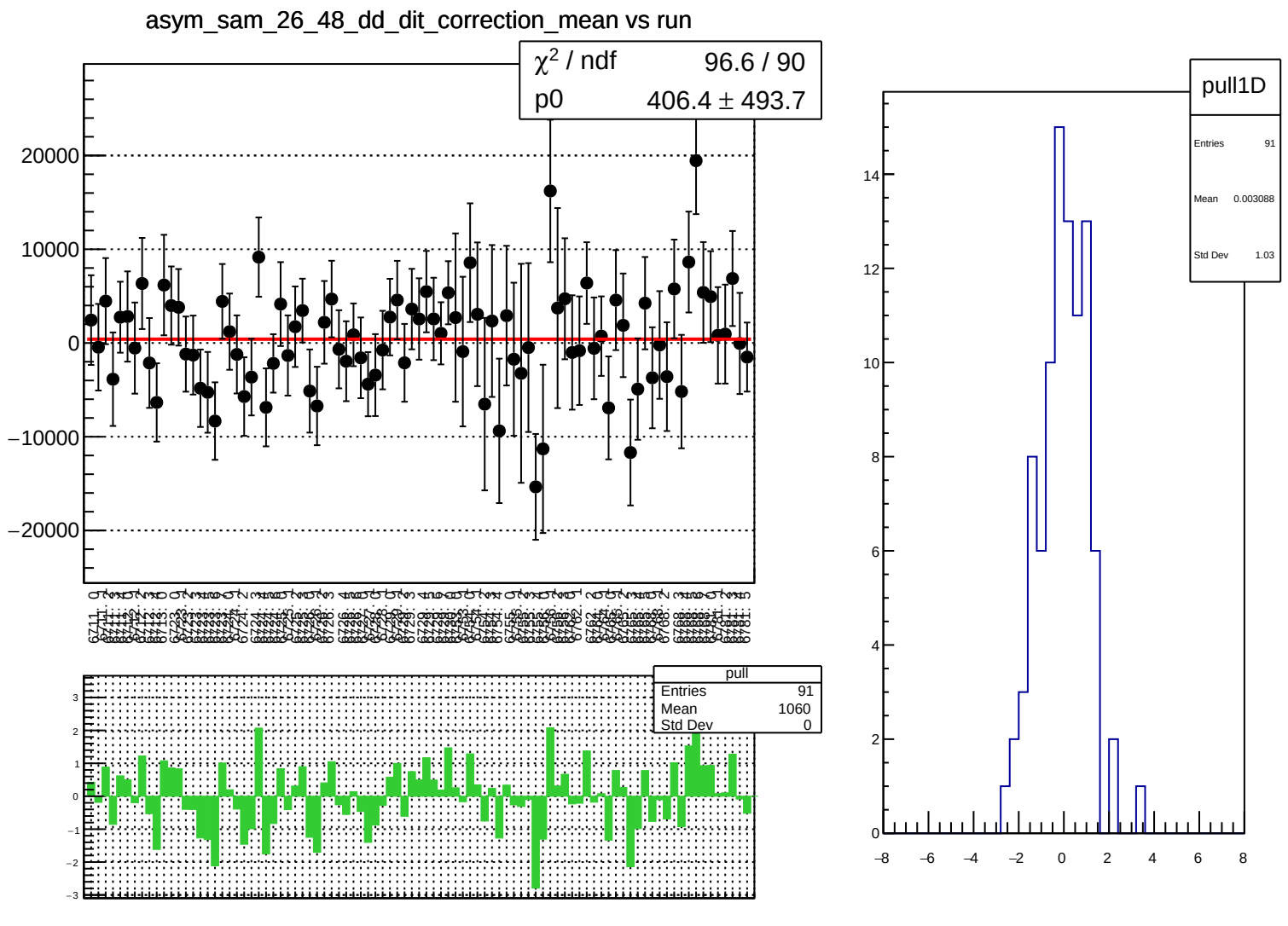

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 95.69 / 90
p0 372.2 ± 449.4
pull
Entries 91
Mean −920.3
Std Dev 0

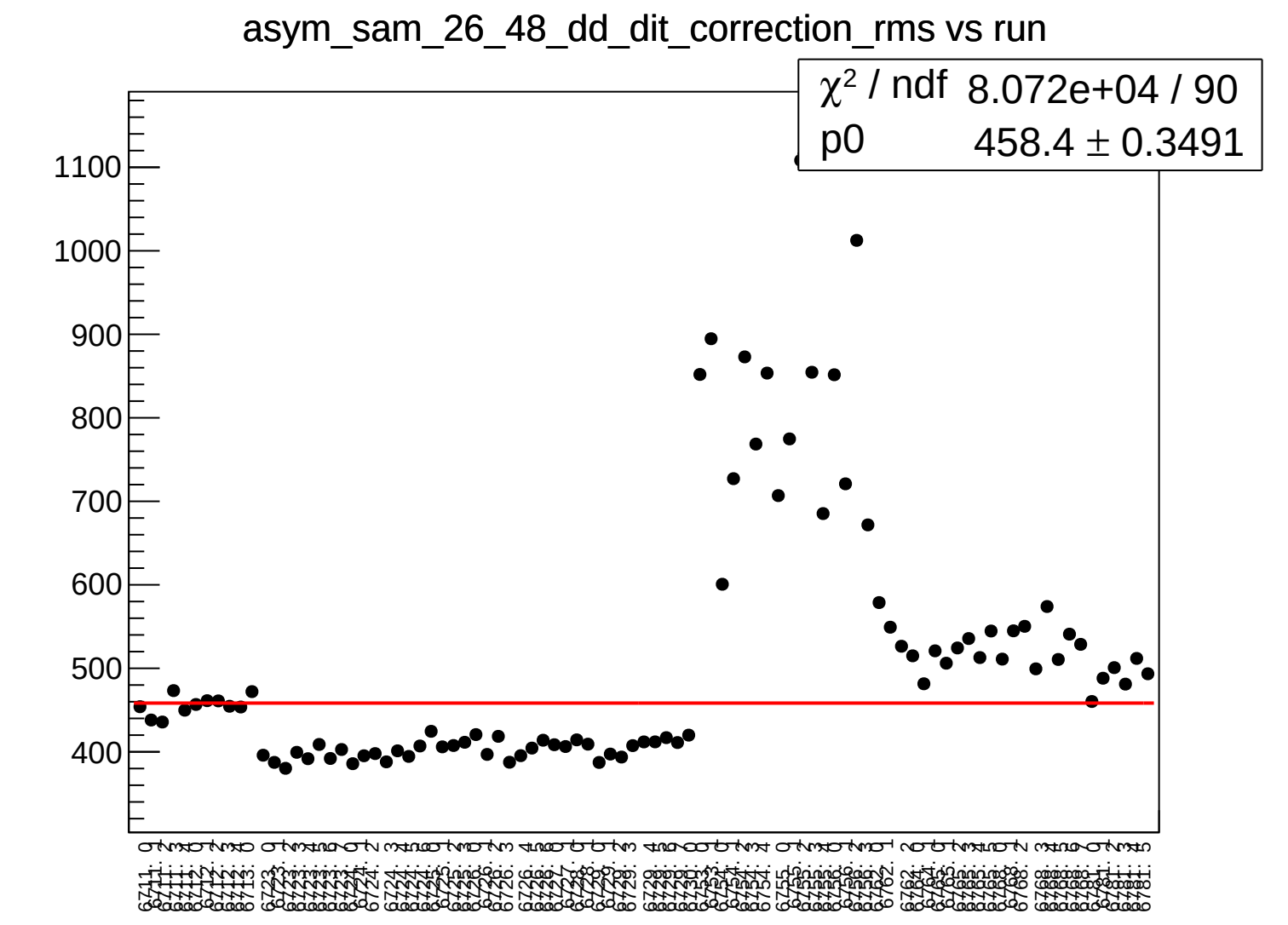

pull1D
Entries 91
Mean −0.002739
Std Dev 1.025

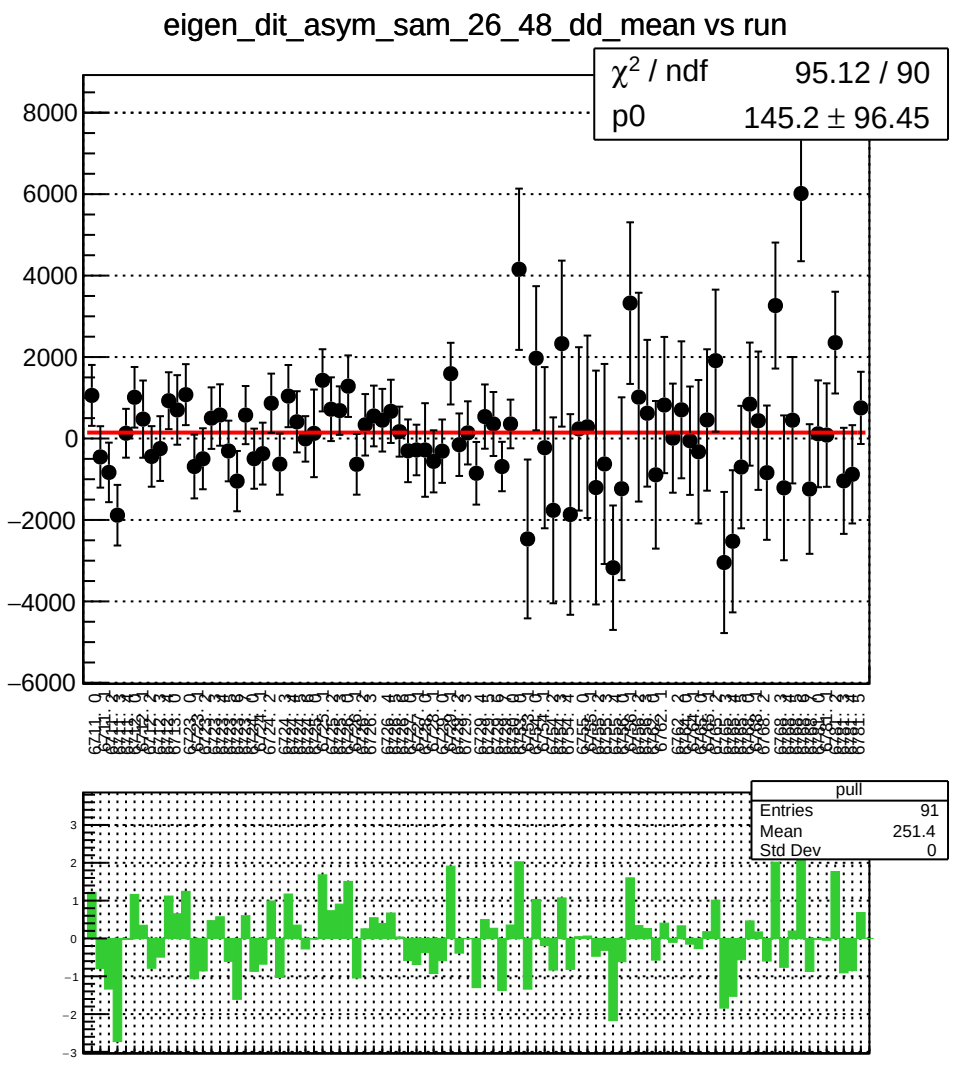

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.75e+04 / 90
p0 421.2 ± 0.3178
900
800
700
600
500
400

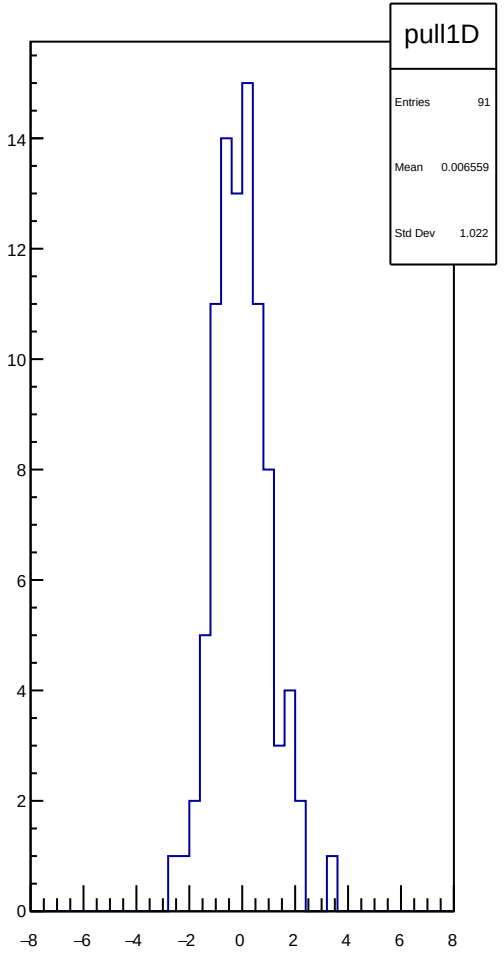

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 95.12 / 90
p0 145.2 ± 96.45
pull
Entries 91
Mean 251.4
Std Dev 0
pull1D
Entries 91
Mean 0.006559
Std Dev 1.022

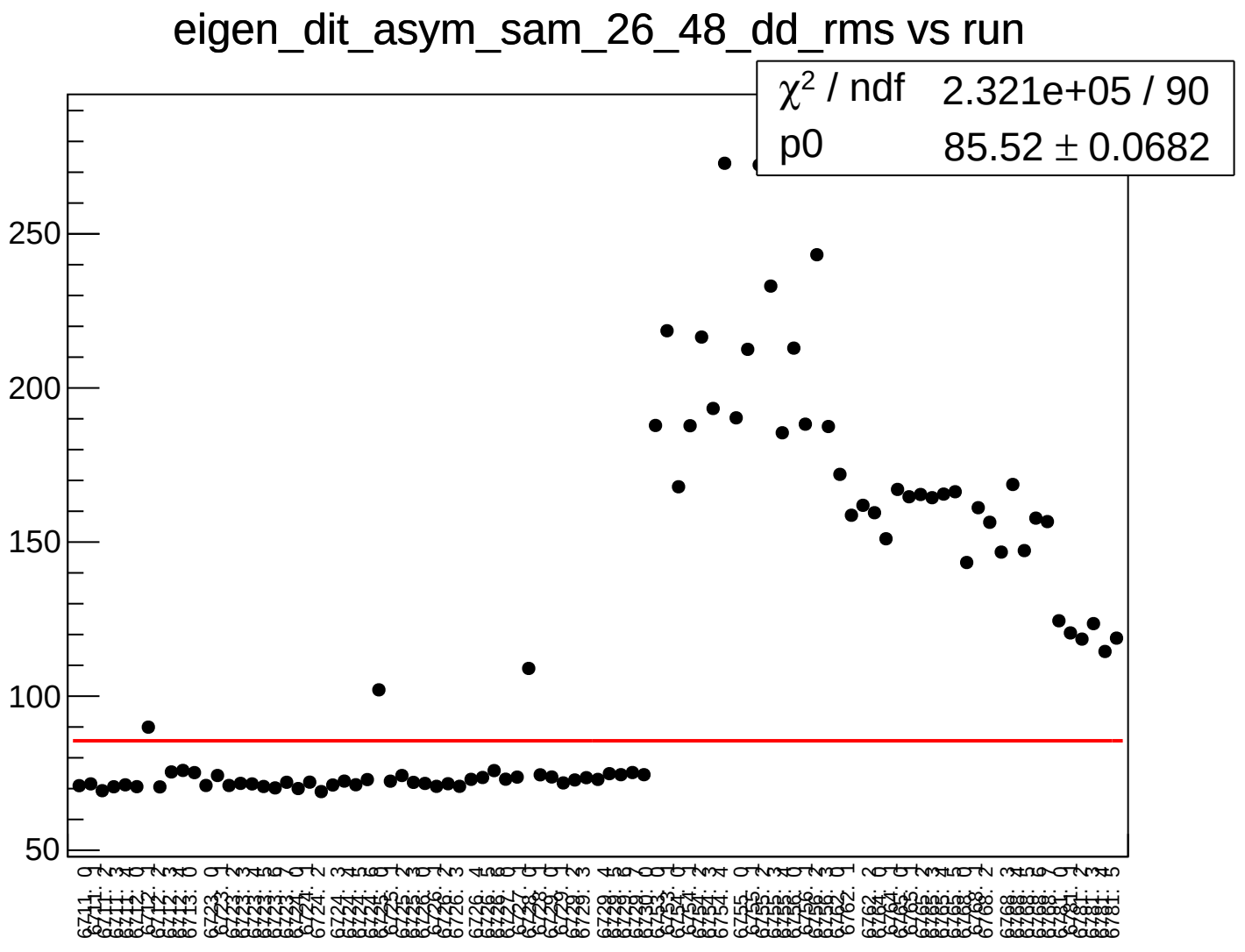

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.321e+05 / 90
p0 85.52 ± 0.0682
250
200
150
100
50

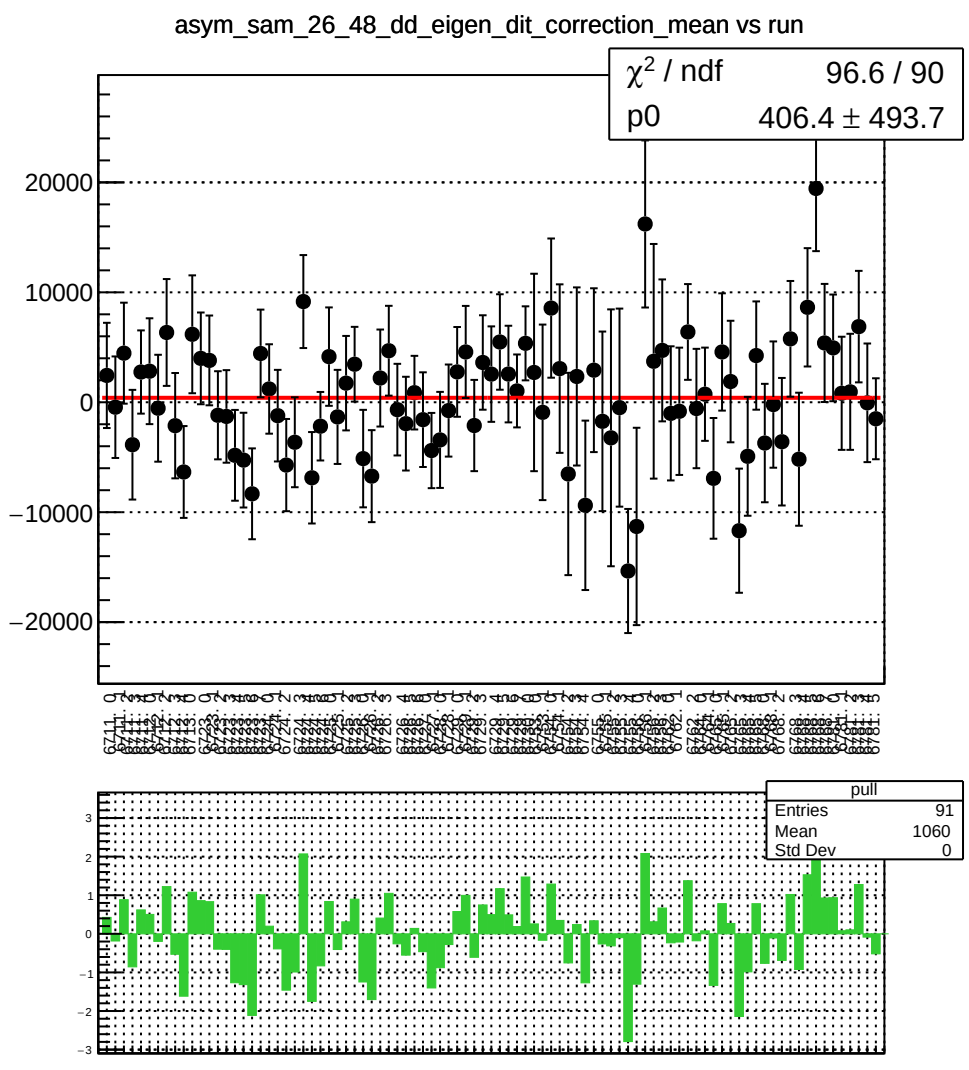

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 96.6 / 90
p0 406.4 ± 493.7
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 1060
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.003088
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

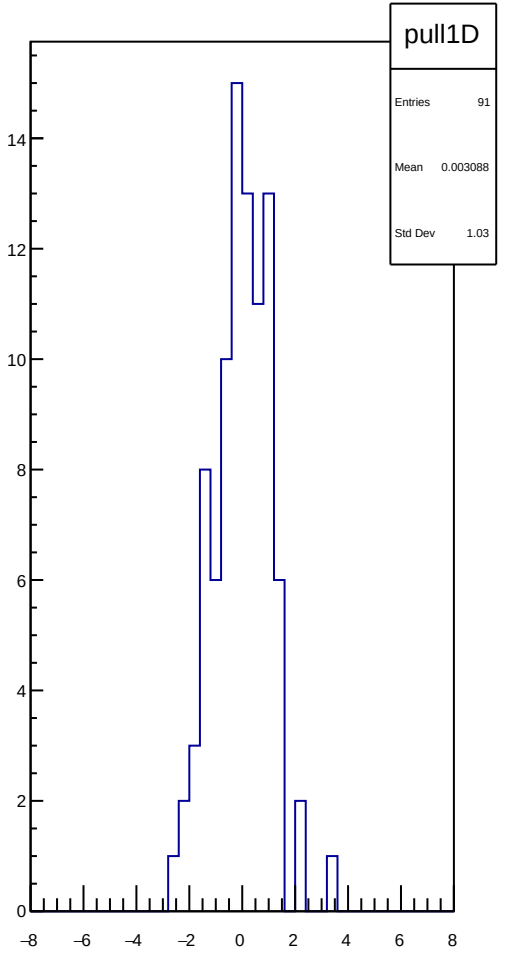

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 8.072e+04 / 90
p0 458.4 ± 0.3491
1100
1000
900
800
700
600
500
400

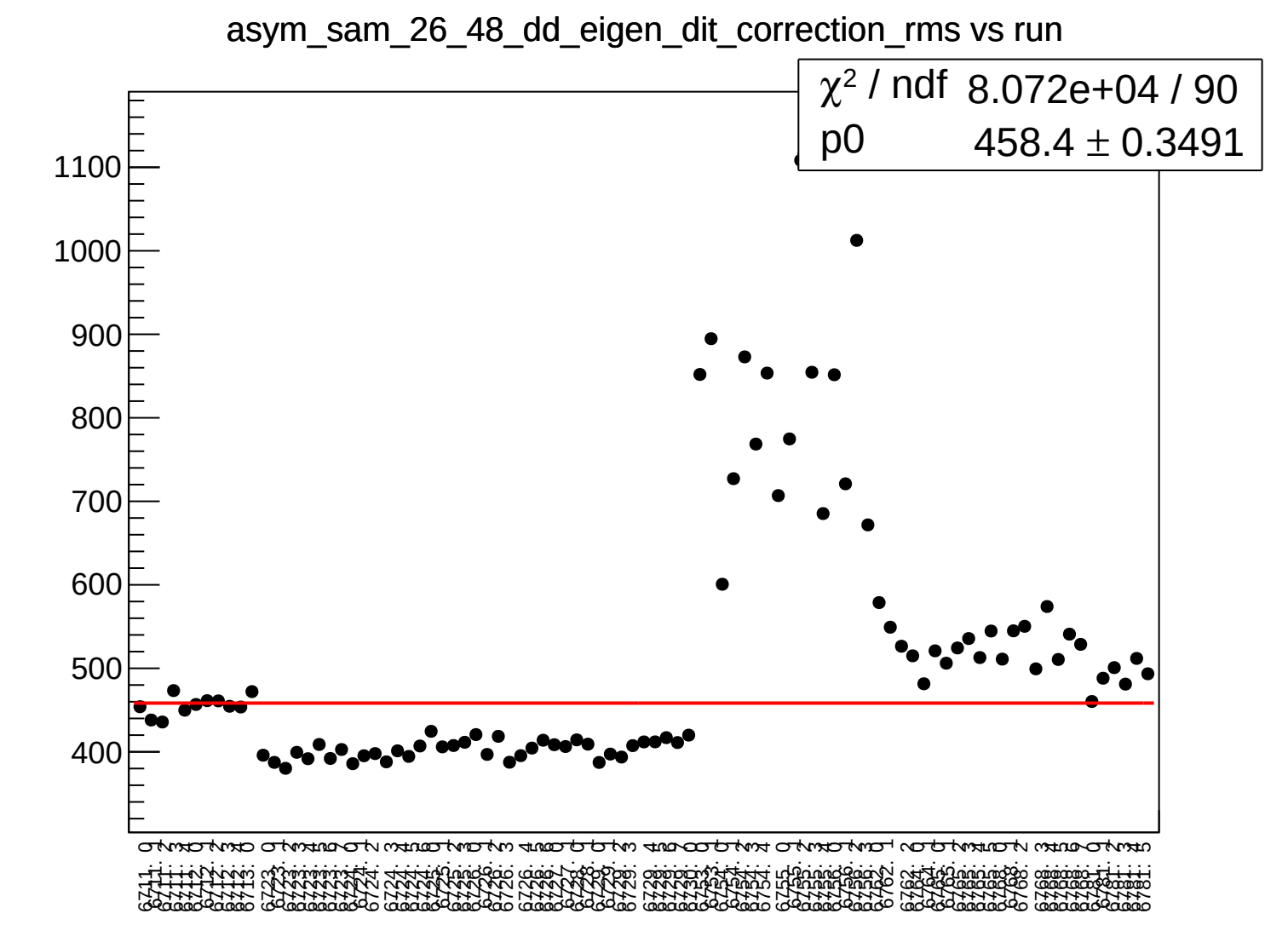

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 95.12 / 90
p0 145.2 ± 96.45
pull
Entries 91
Mean 251.4
Std Dev 0

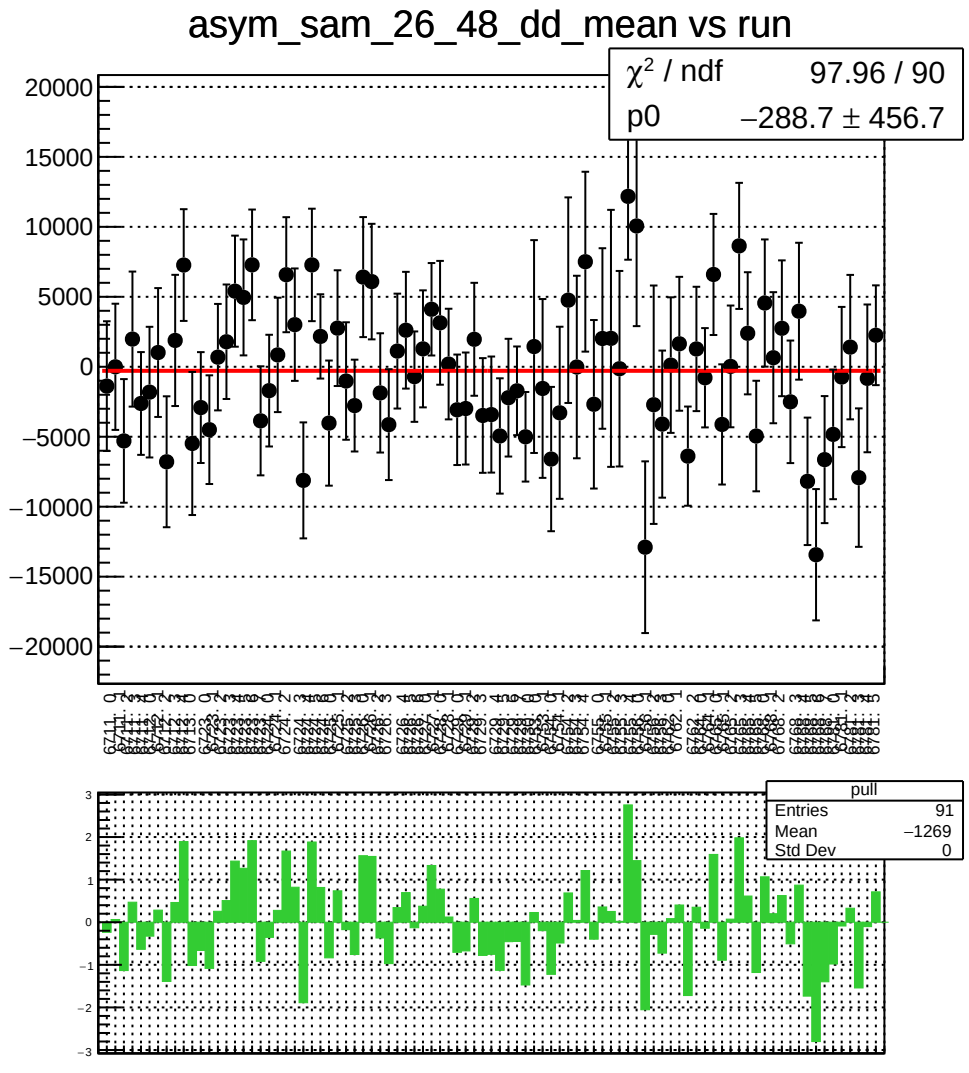

pull1D
Entries 91
Mean 0.006559
Std Dev 1.022

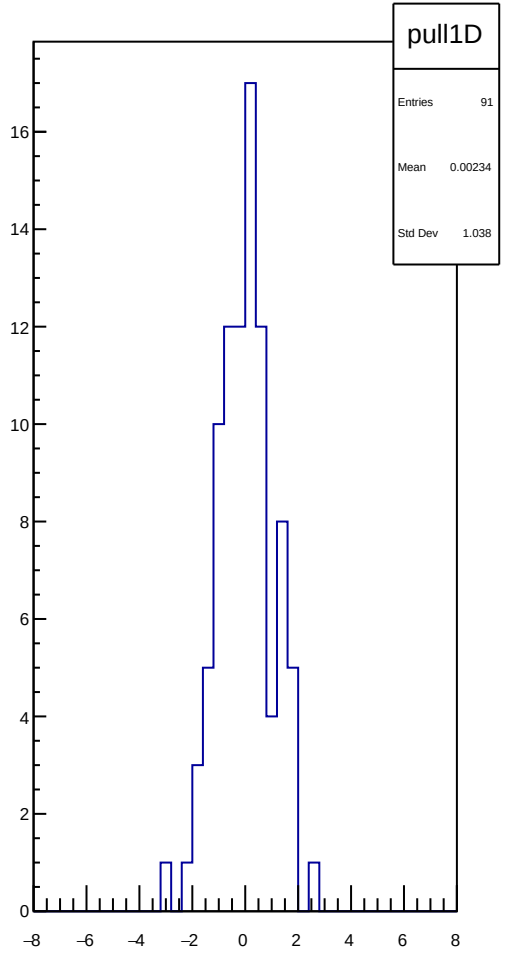

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.321e+05 / 90
p0 85.52 ± 0.0682
250
200
150
100
50

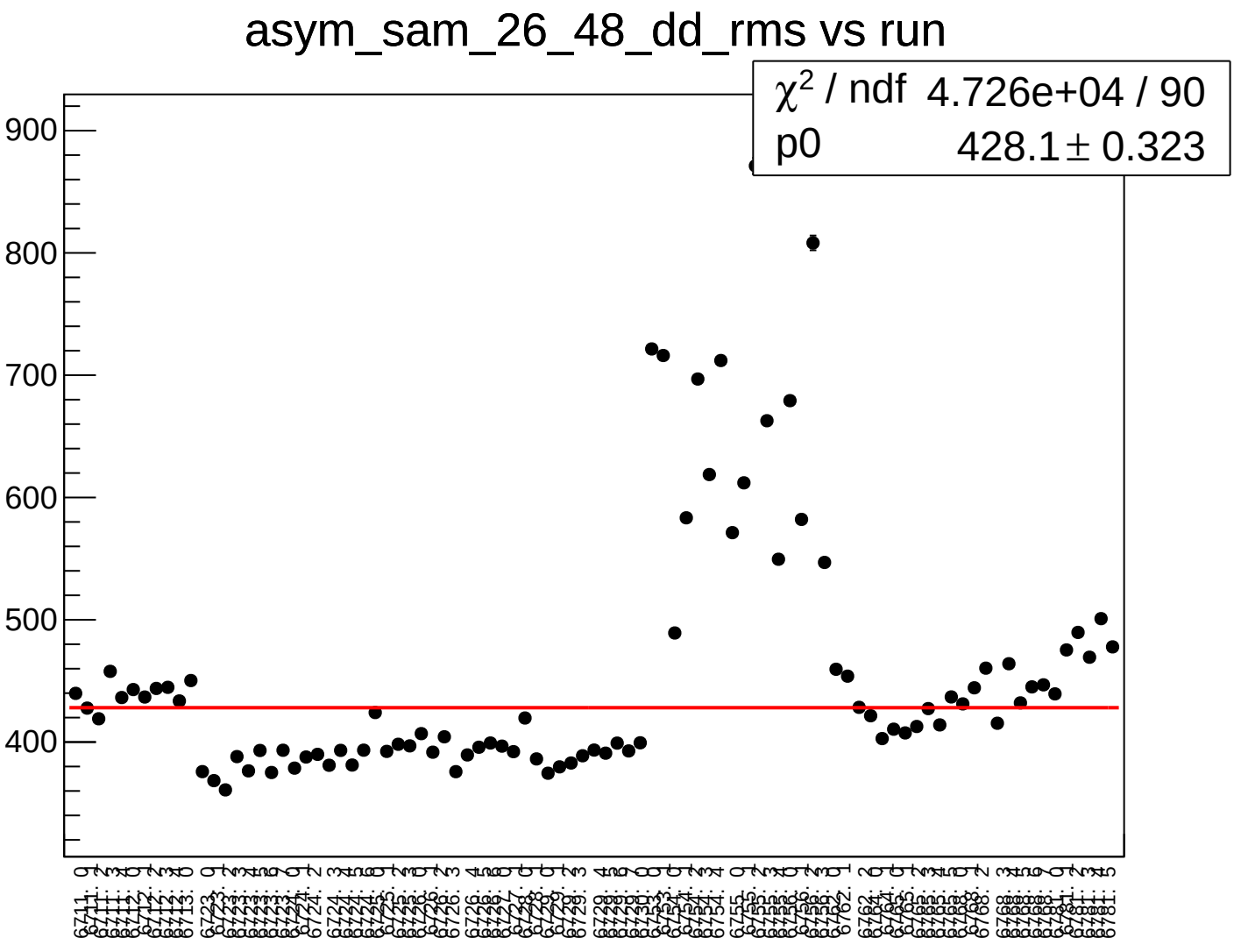

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 96.6 / 90
p0 406.4 ± 493.7
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 1060
Std Dev 0
3
2
1
0
−1
−2
−3

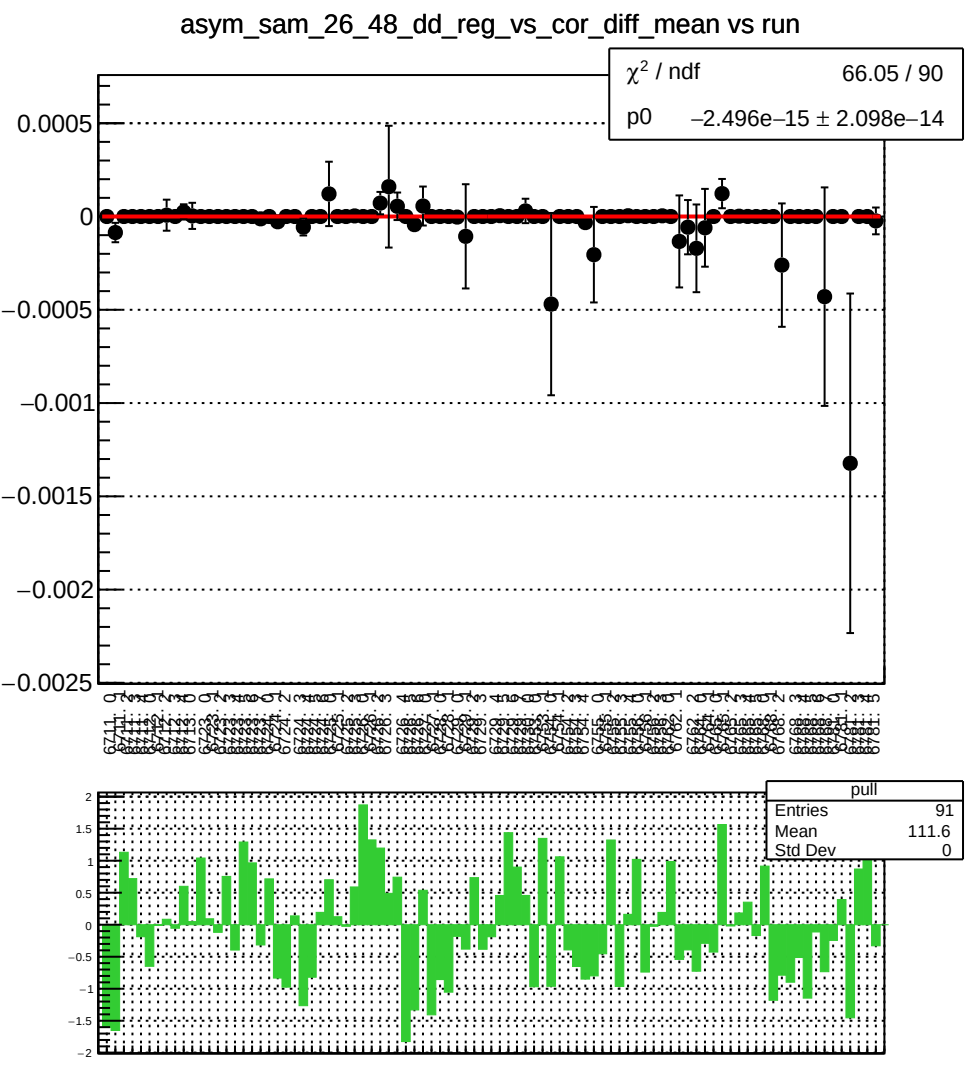

pull1D
Entries 91
Mean 0.003088
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

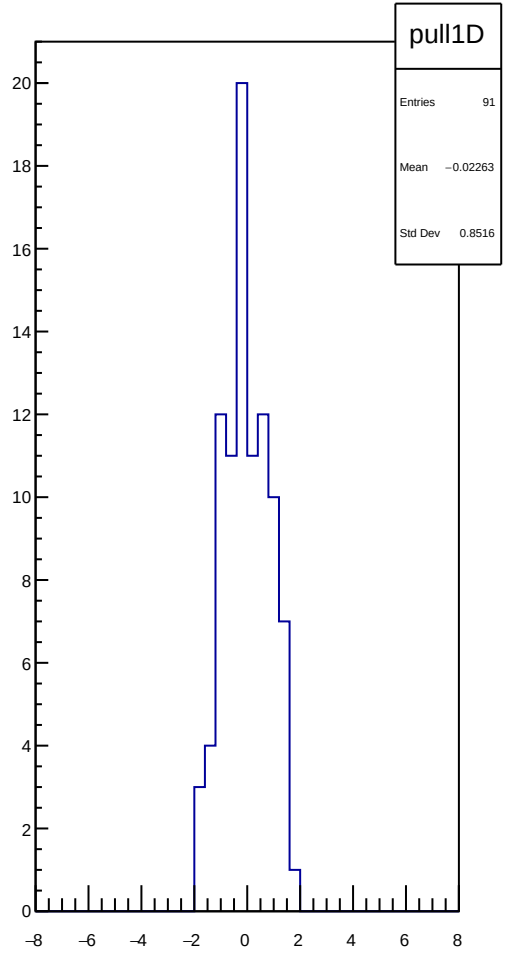

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 8.072e+04 / 90
p0 458.4 ± 0.3491
1100
1000
900
800
700
600
500
400

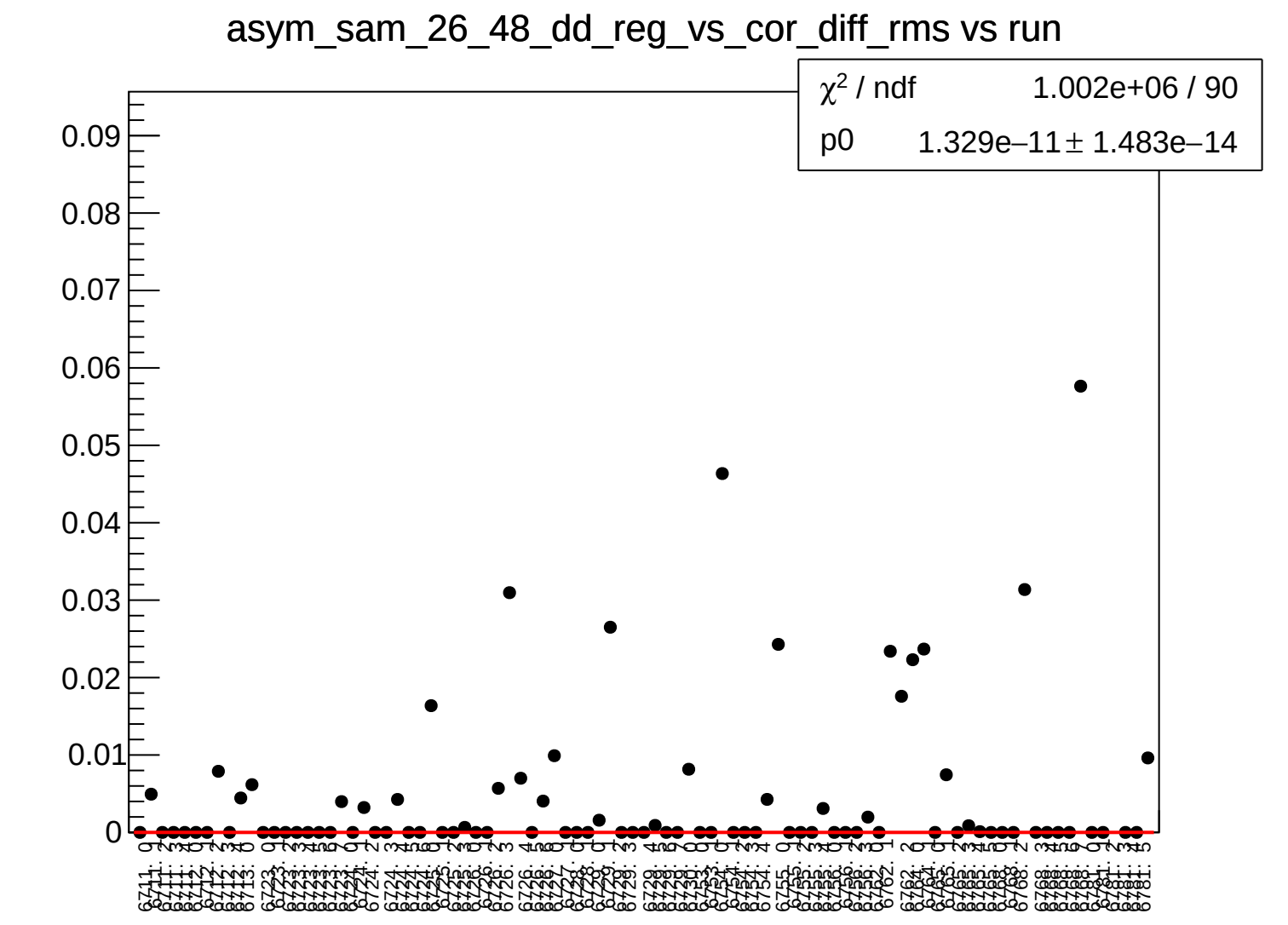

asym_sam_26_48_dd_mean vs run
χ² / ndf 97.96 / 90
p0 −288.7 ± 456.7
pull
Entries 91
Mean −1269
Std Dev 0

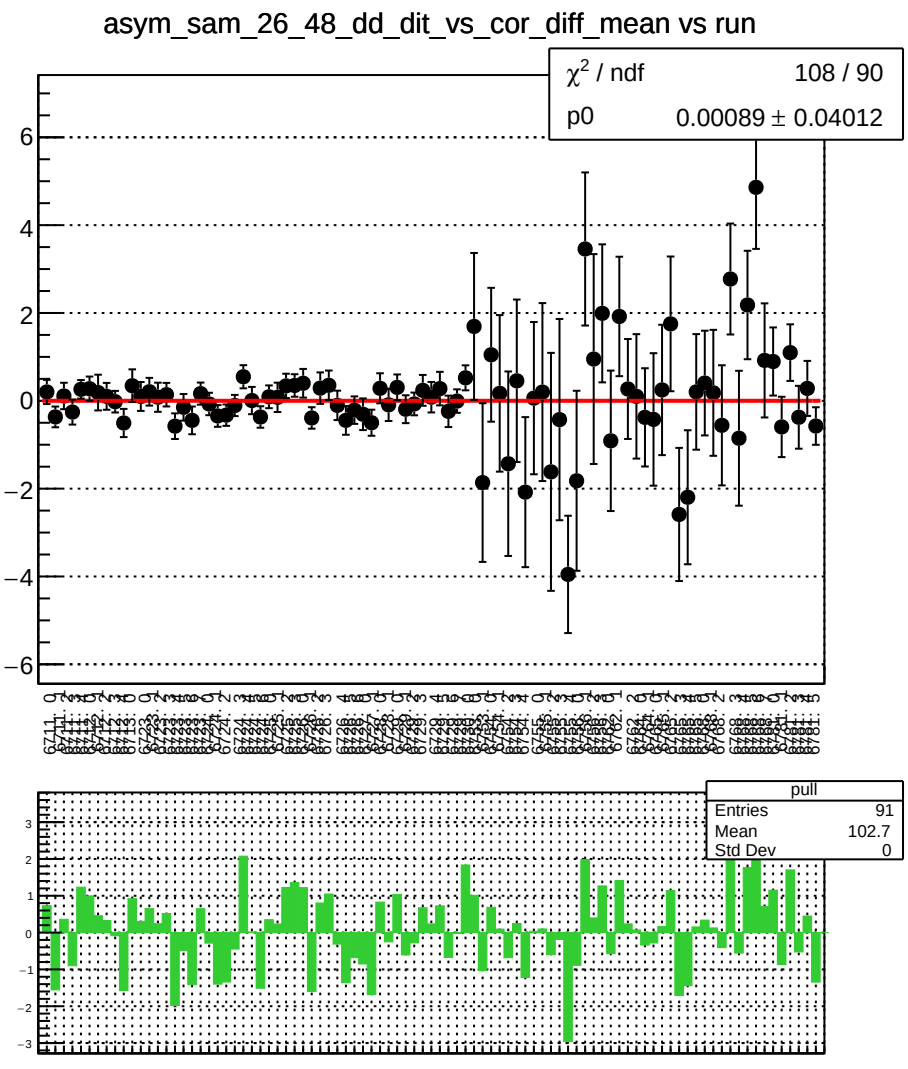

pull1D
Entries 91
Mean 0.00234
Std Dev 1.038

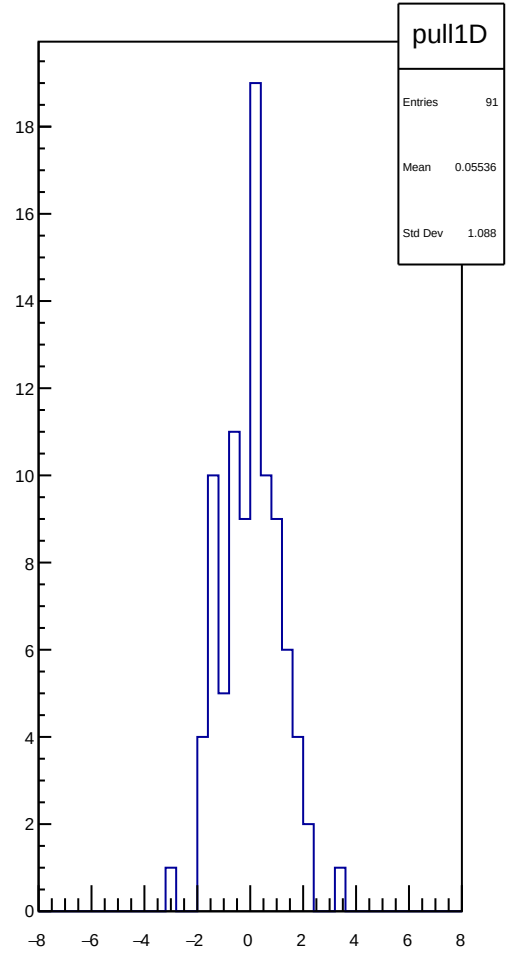

asym_sam_26_48_dd_rms vs run
χ^2 / ndf 4.726e+04 / 90
p0 428.1 ± 0.323
900
800
700
600
500
400

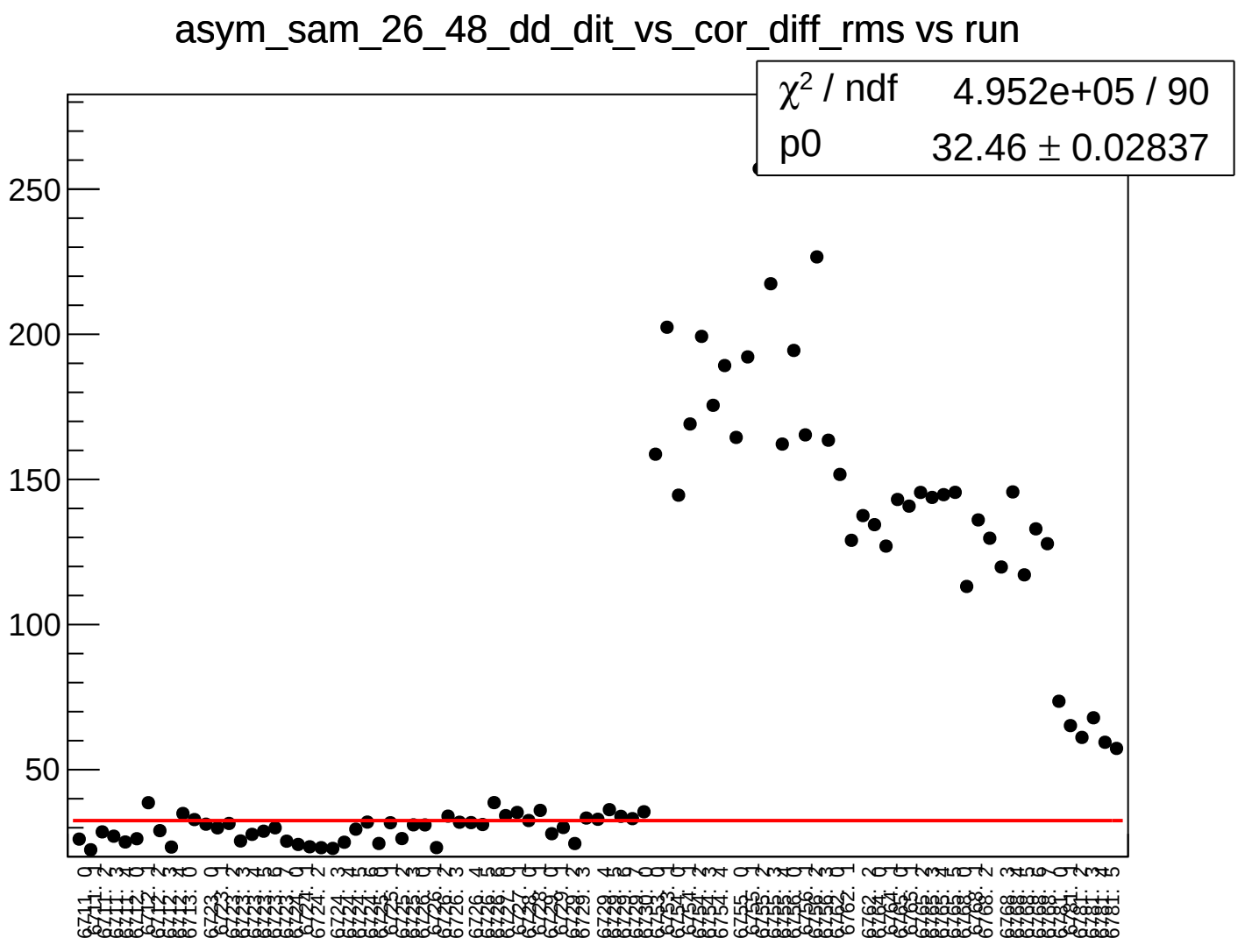

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 66.05 / 90
p0 −2.496e−15 ± 2.098e−14
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 91
Mean 111.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

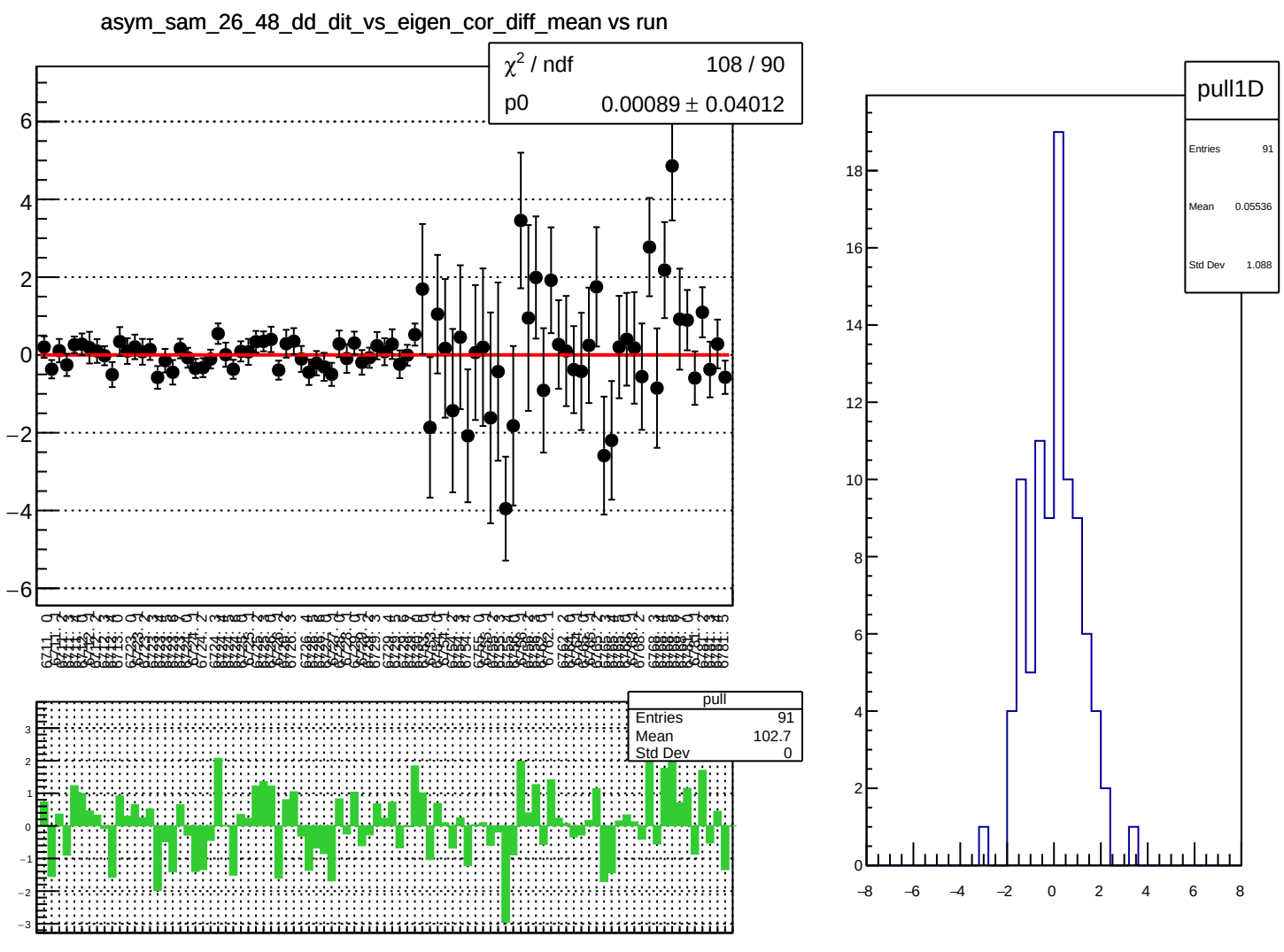

pull1D
Entries 91
Mean −0.02263
Std Dev 0.8516
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

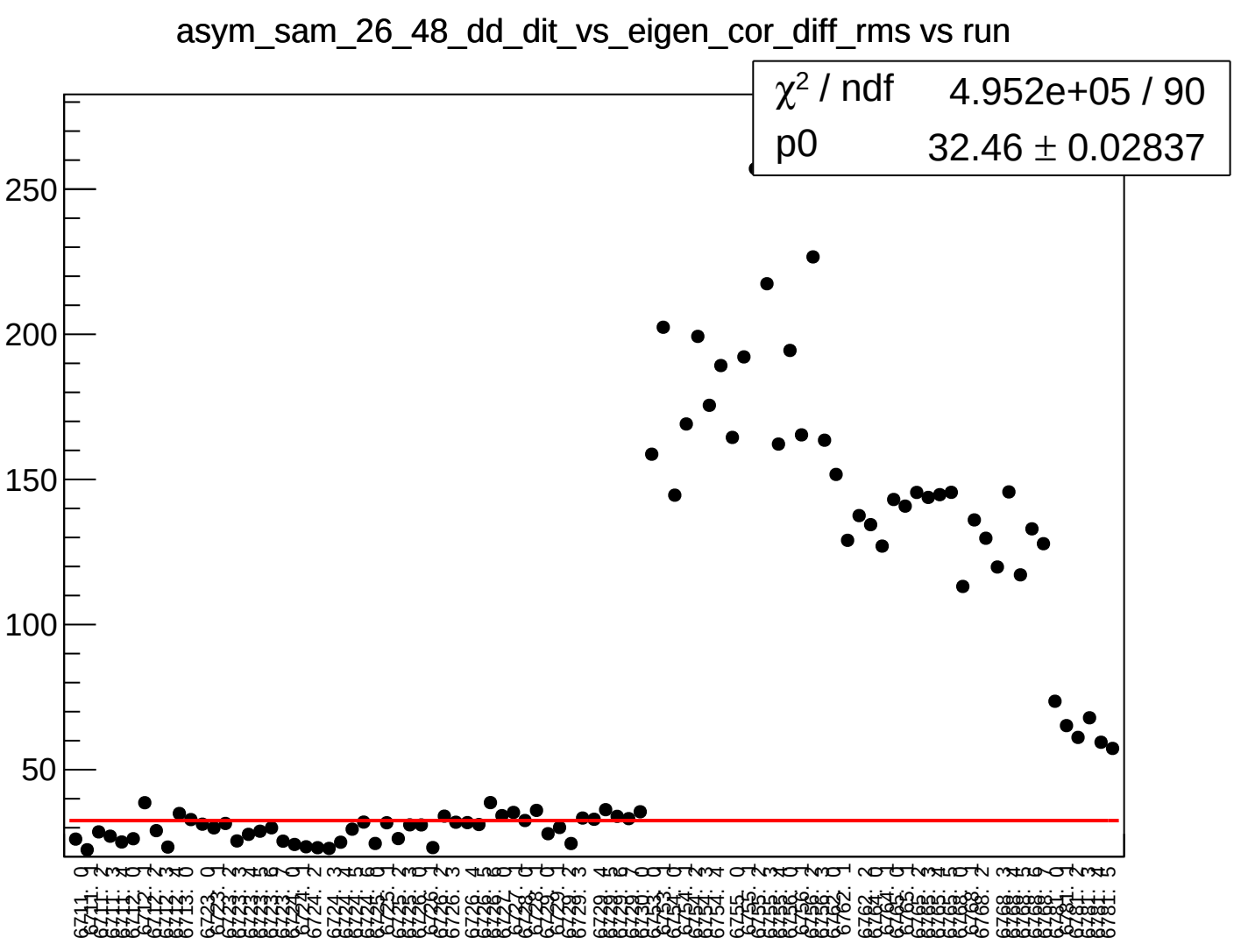

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.002e+06 / 90
p0 1.329e−11 ± 1.483e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

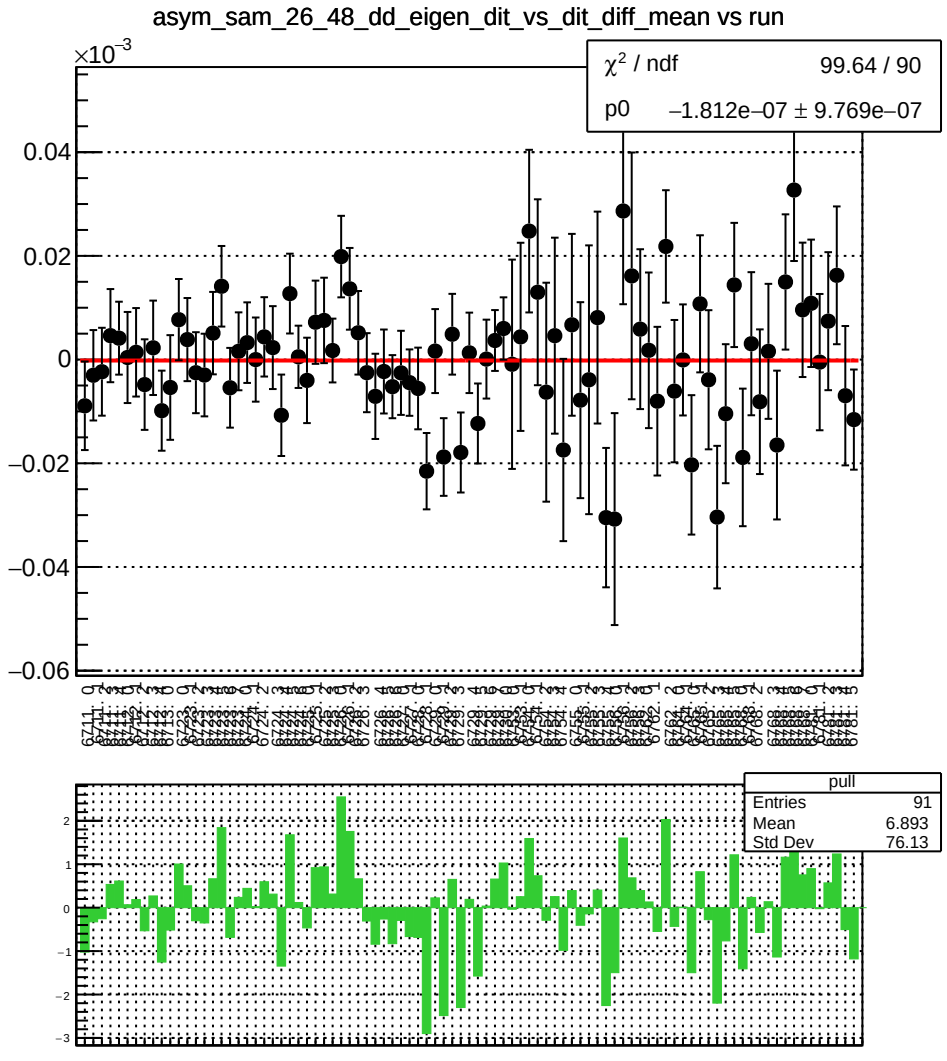

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 108 / 90
p0 0.00089 ± 0.04012
pull
Entries 91
Mean 102.7
Std Dev 0

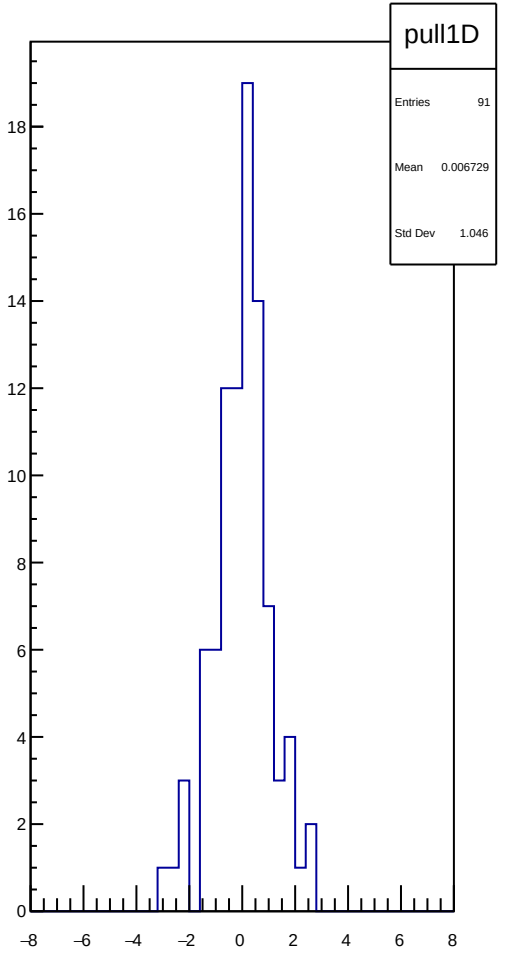

pull1D
Entries 91
Mean 0.05536
Std Dev 1.088

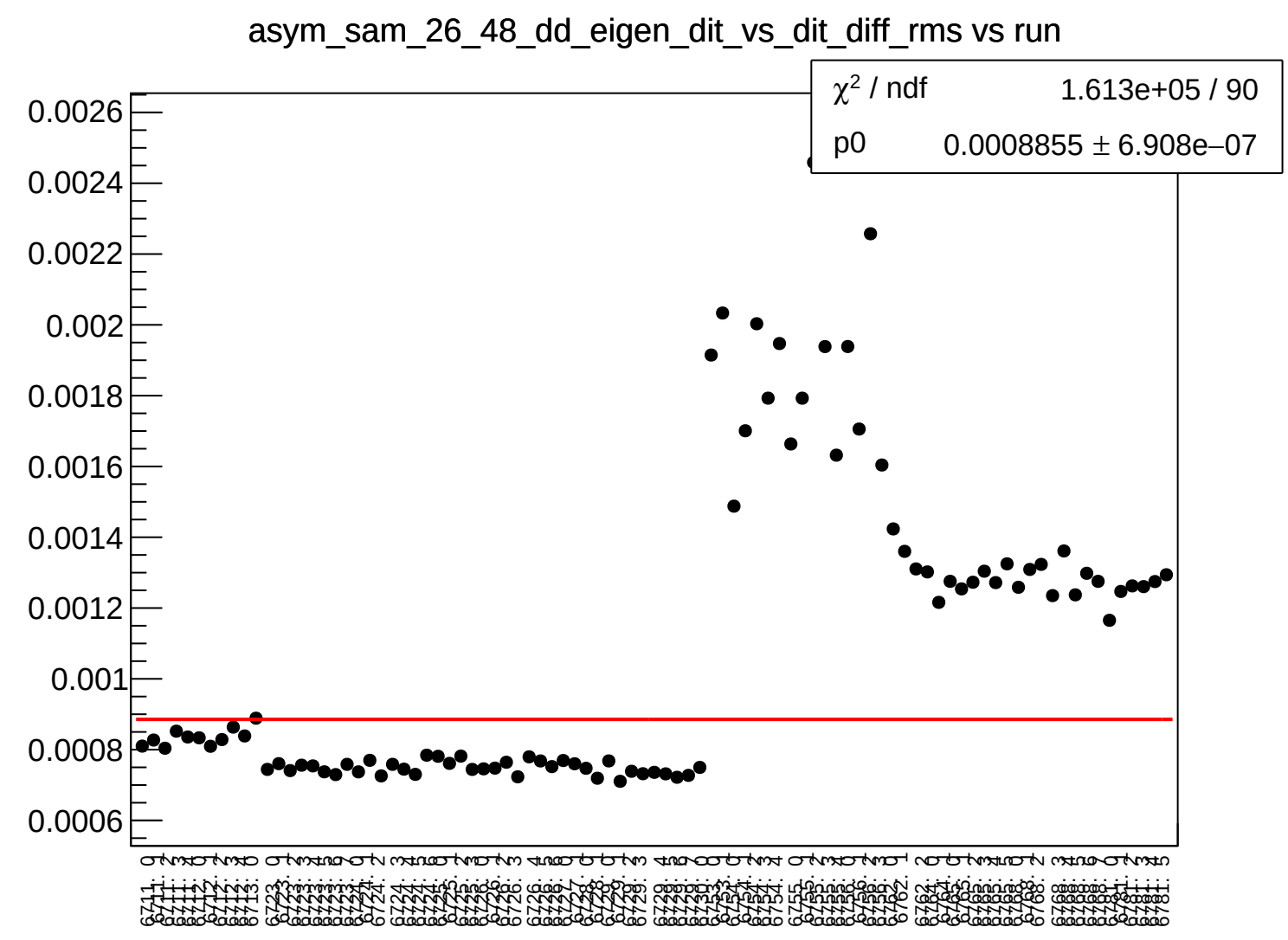

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.952e+05 / 90
p0 32.46 ± 0.02837
250
200
150
100
50

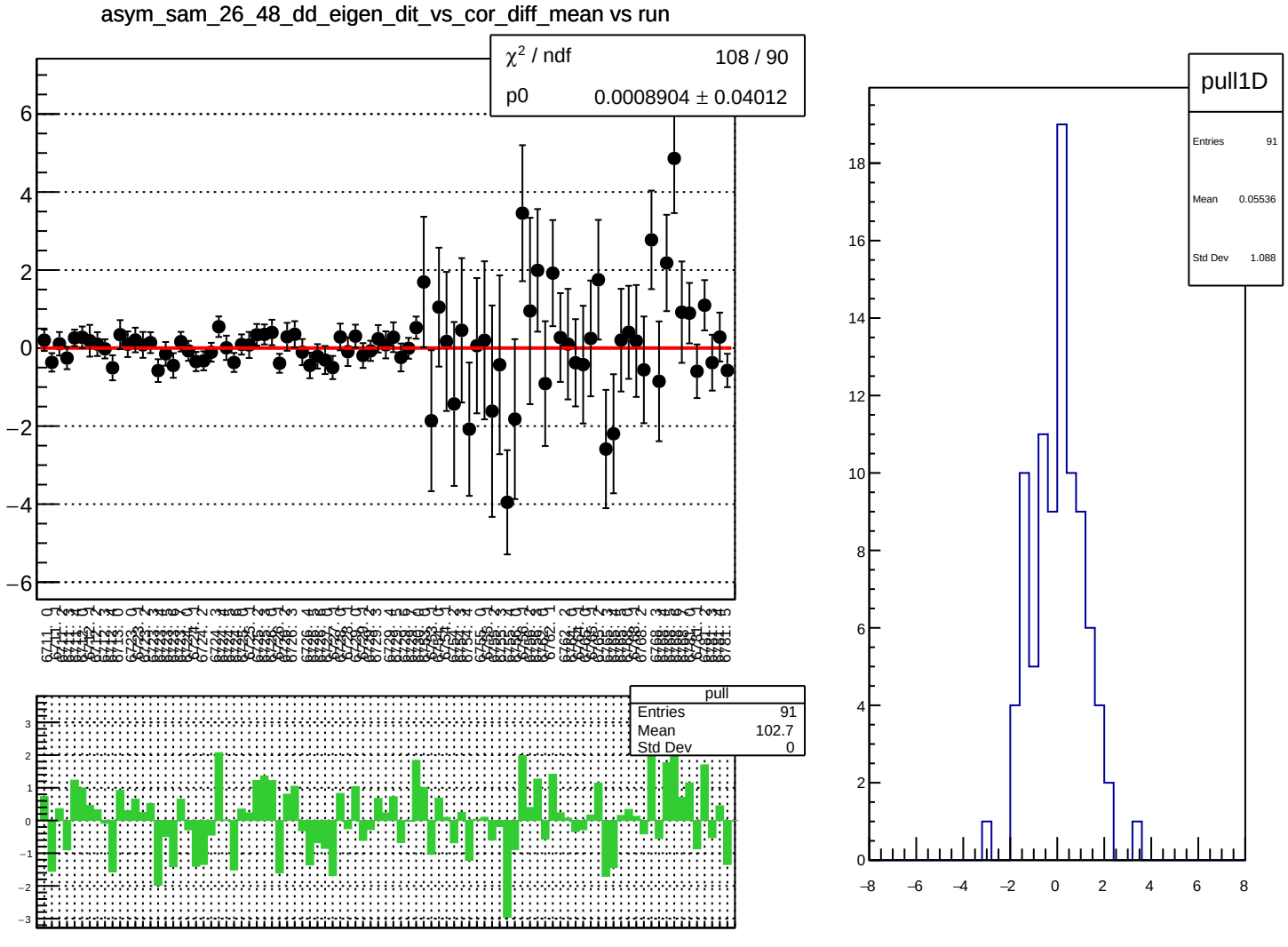

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108 / 90
p0 0.00089 ± 0.04012
pull
Entries 91
Mean 102.7
Std Dev 0
pull1D
Entries 91
Mean 0.05536
Std Dev 1.088

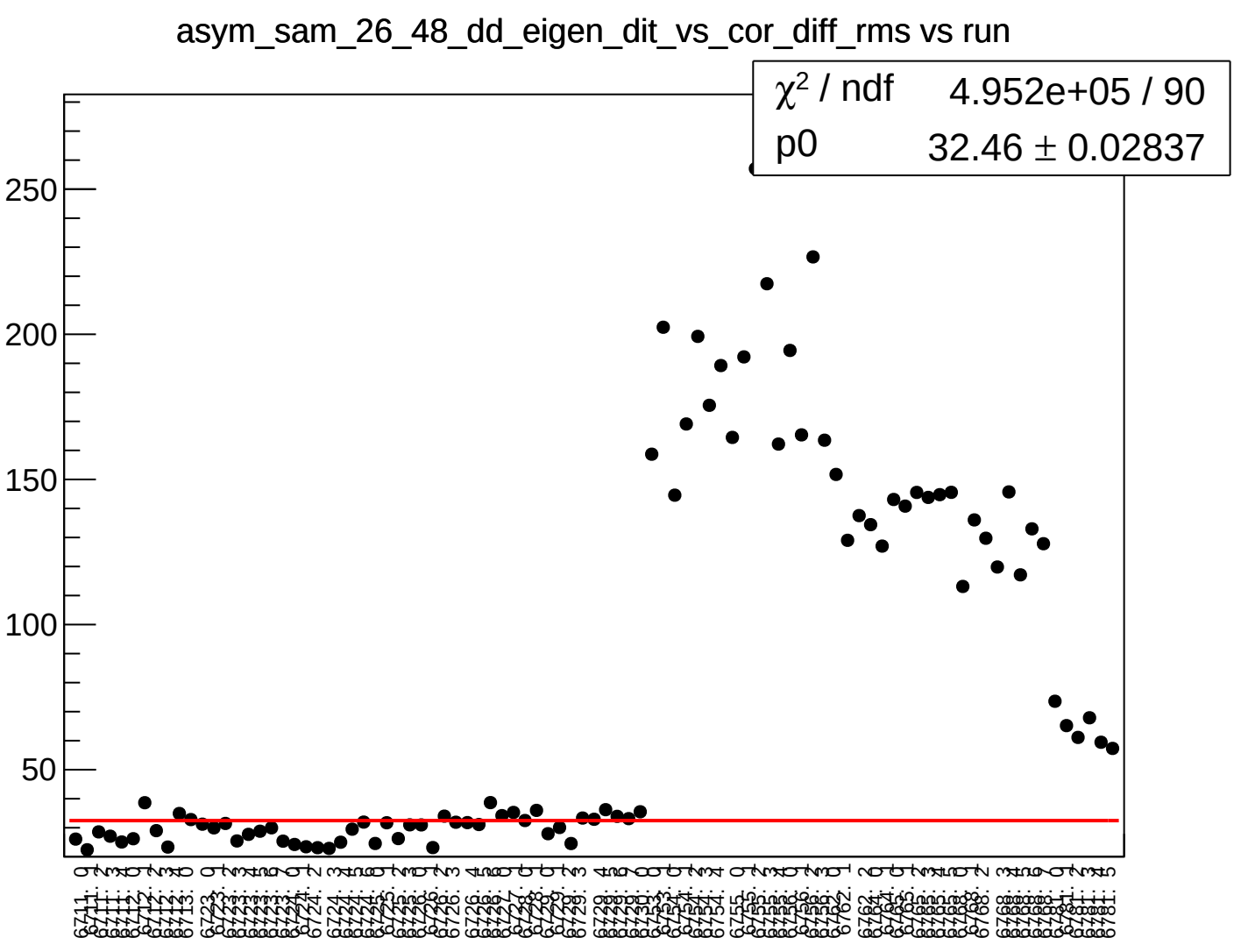

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.952e+05 / 90
p0 32.46 ± 0.02837
250
200
150
100
50

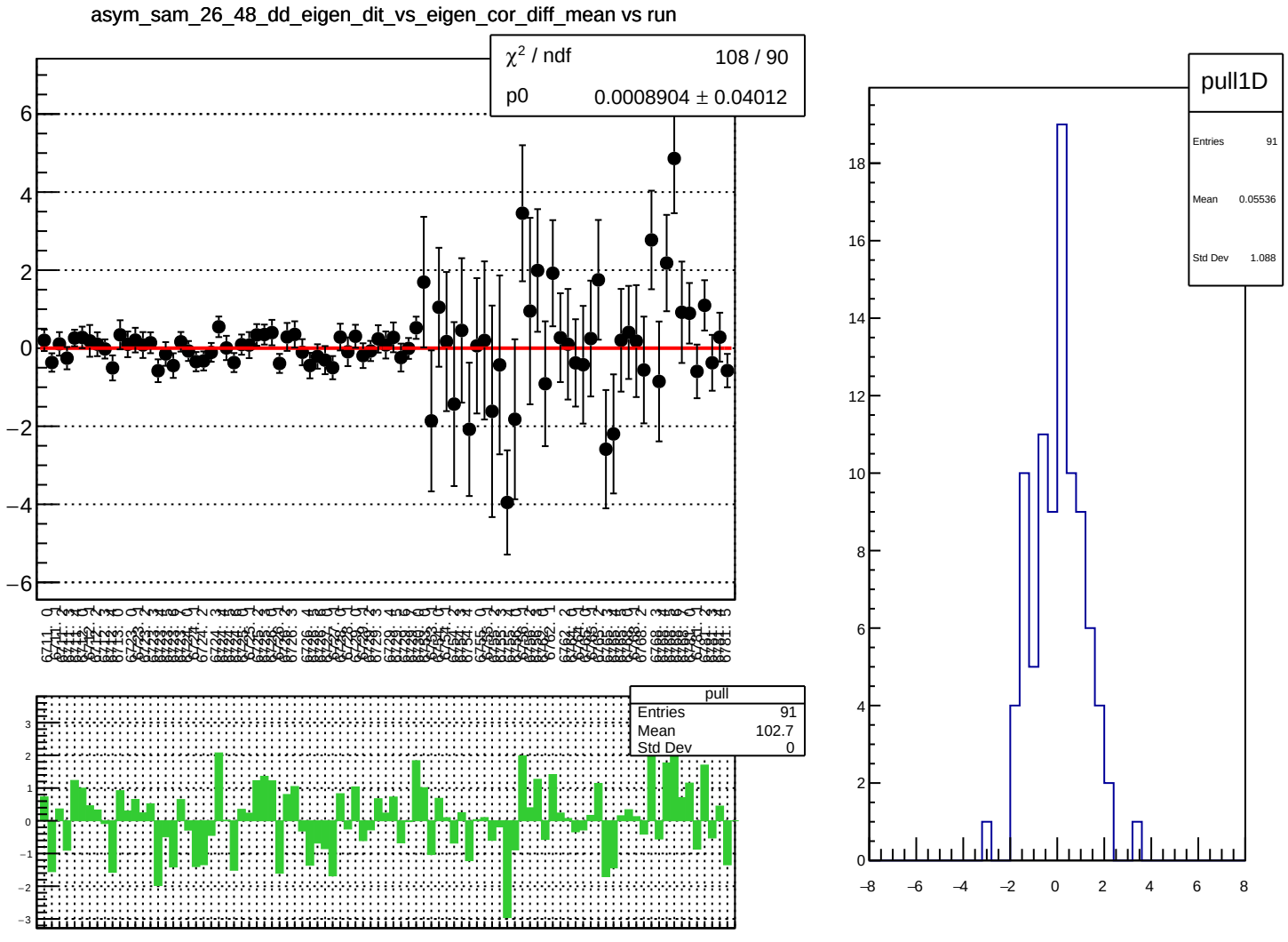

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 99.64 / 90
p0 −1.812e−07 ± 9.769e−07
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 6.893
Std Dev 76.13
2
1
0
−1
−2
−3

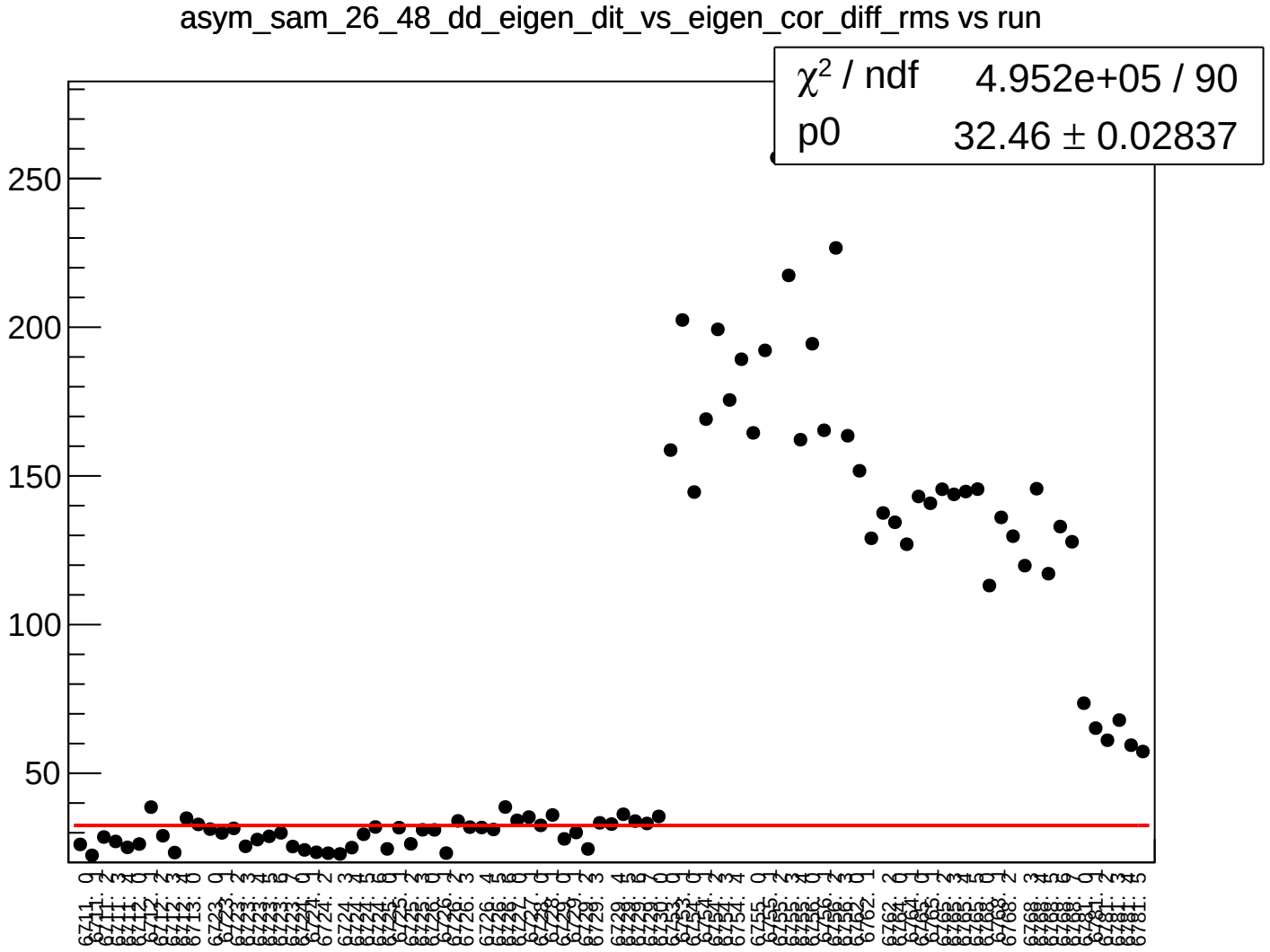

pull1D
Entries 91
Mean 0.006729
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

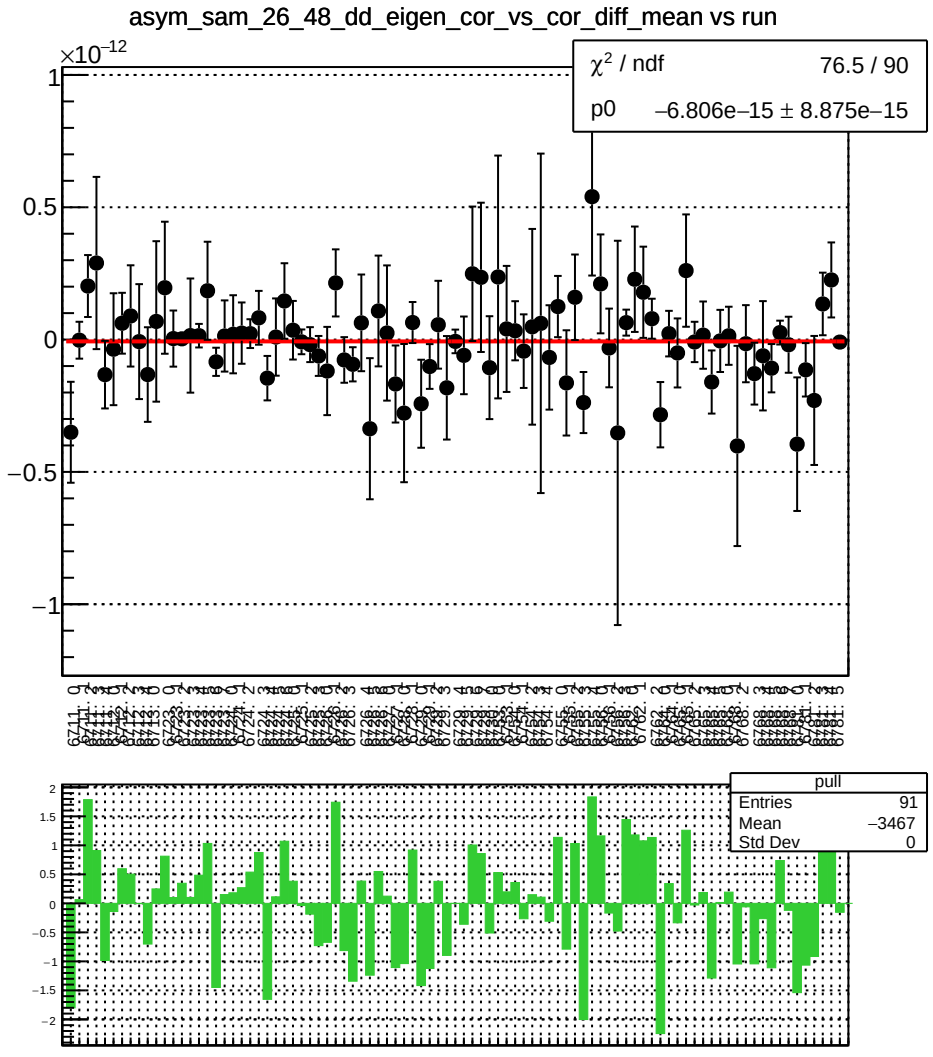

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.613e+05 / 90
p0 0.0008855 ± 6.908e−07
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

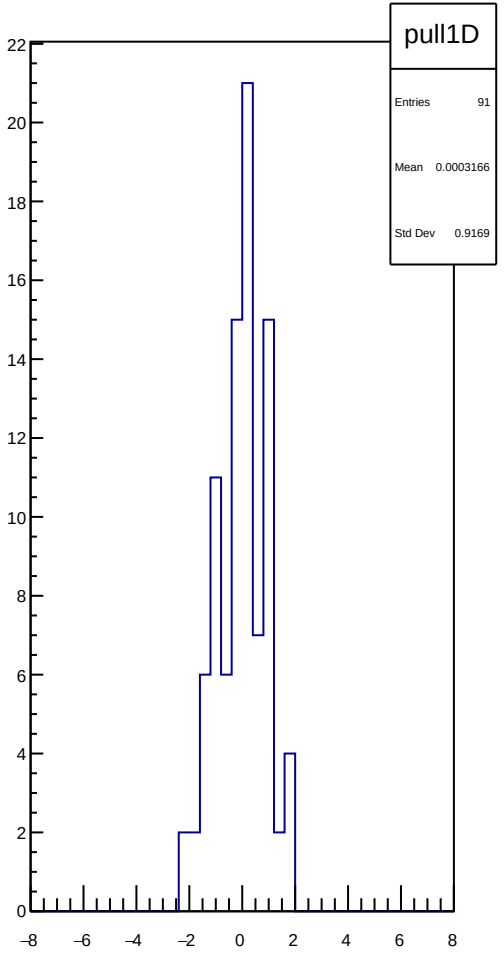

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108 / 90
p0 0.0008904 ± 0.04012
pull
Entries 91
Mean 102.7
Std Dev 0
pull1D
Entries 91
Mean 0.05536
Std Dev 1.088

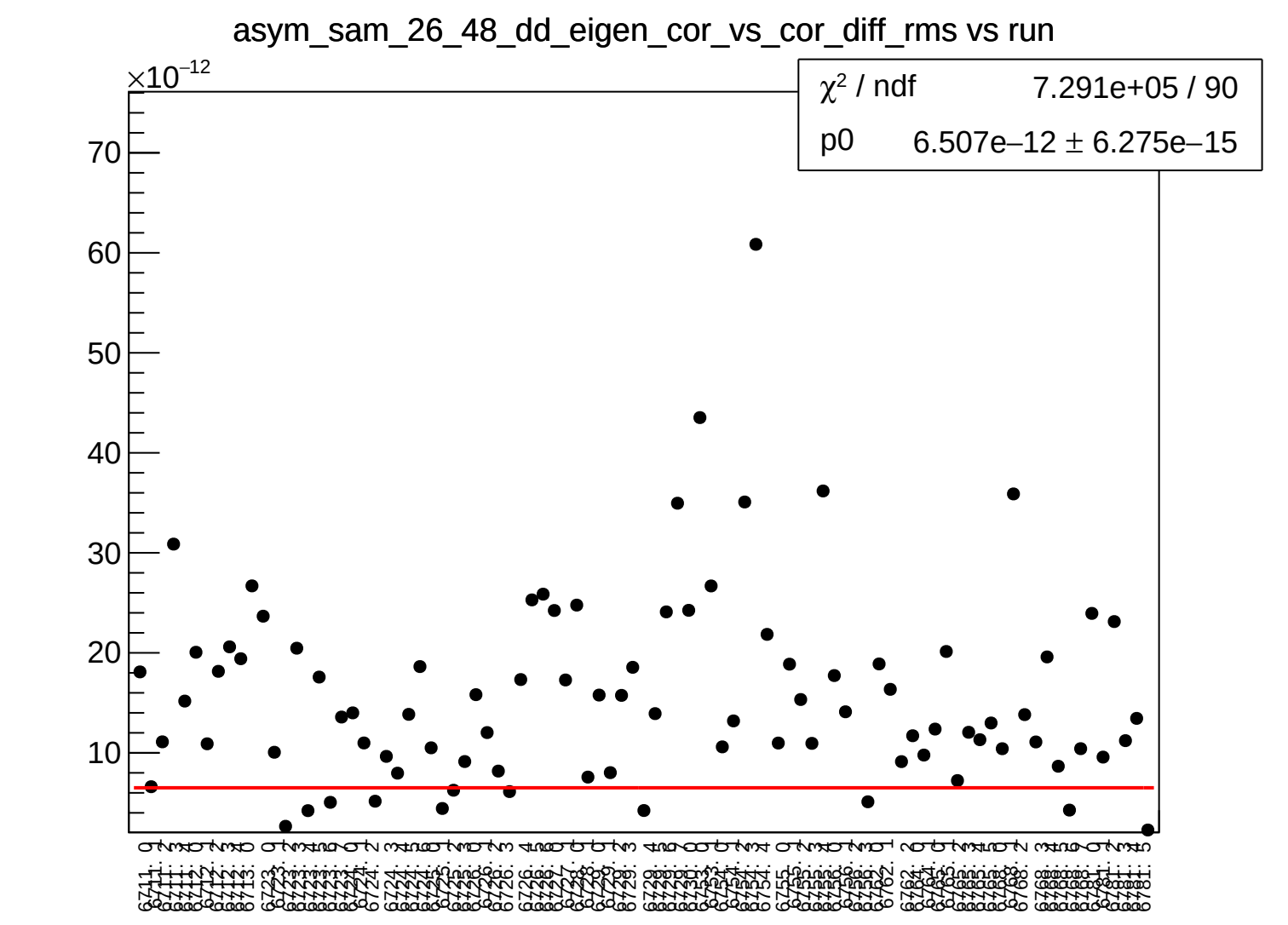

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.952e+05 / 90
p0 32.46 ± 0.02837
250
200
150
100
50

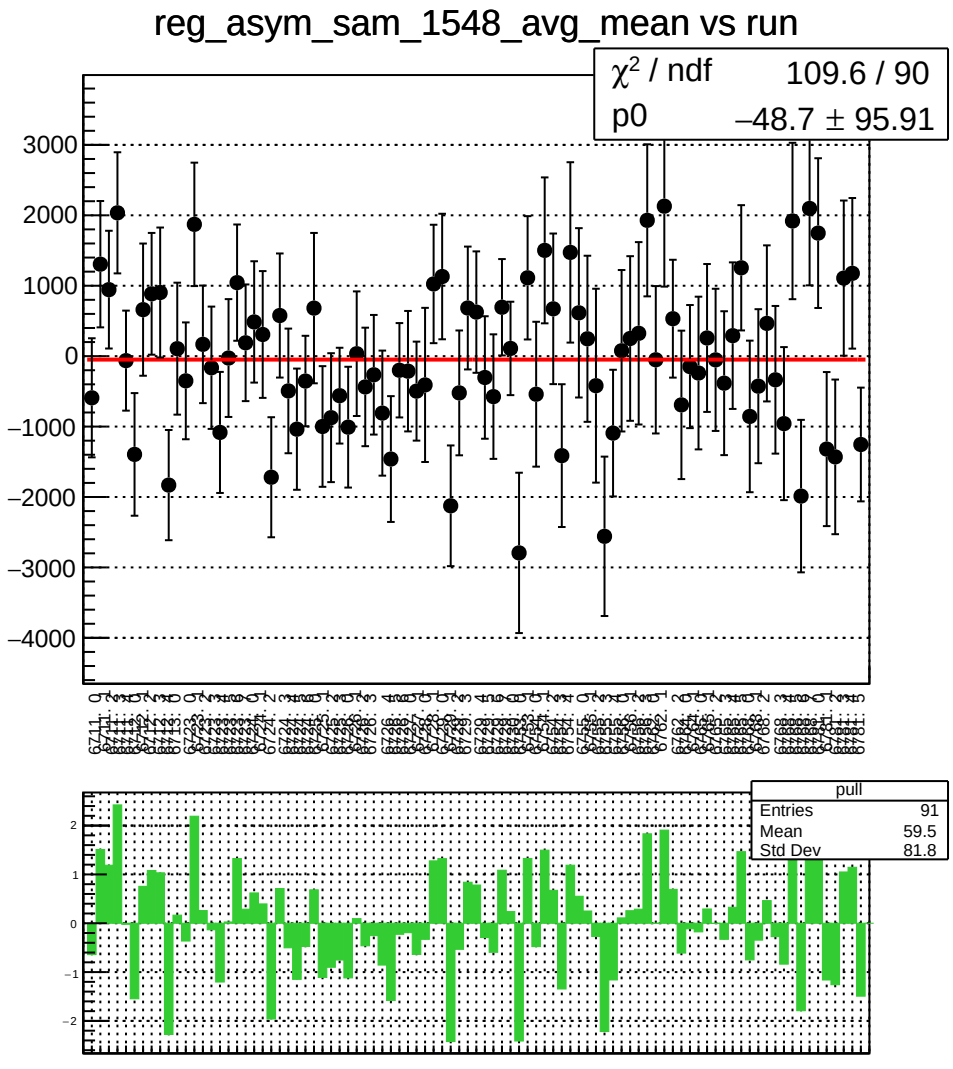

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108 / 90
p0 0.0008904 ± 0.04012
pull
Entries 91
Mean 102.7
Std Dev 0
pull1D
Entries 91
Mean 0.05536
Std Dev 1.088

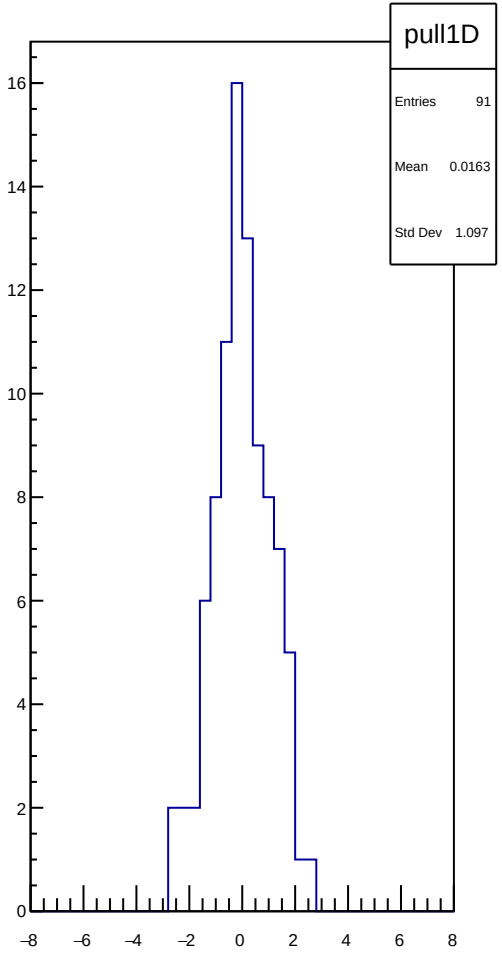

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.952e+05 / 90
p0 32.46 ± 0.02837
250
200
150
100
50

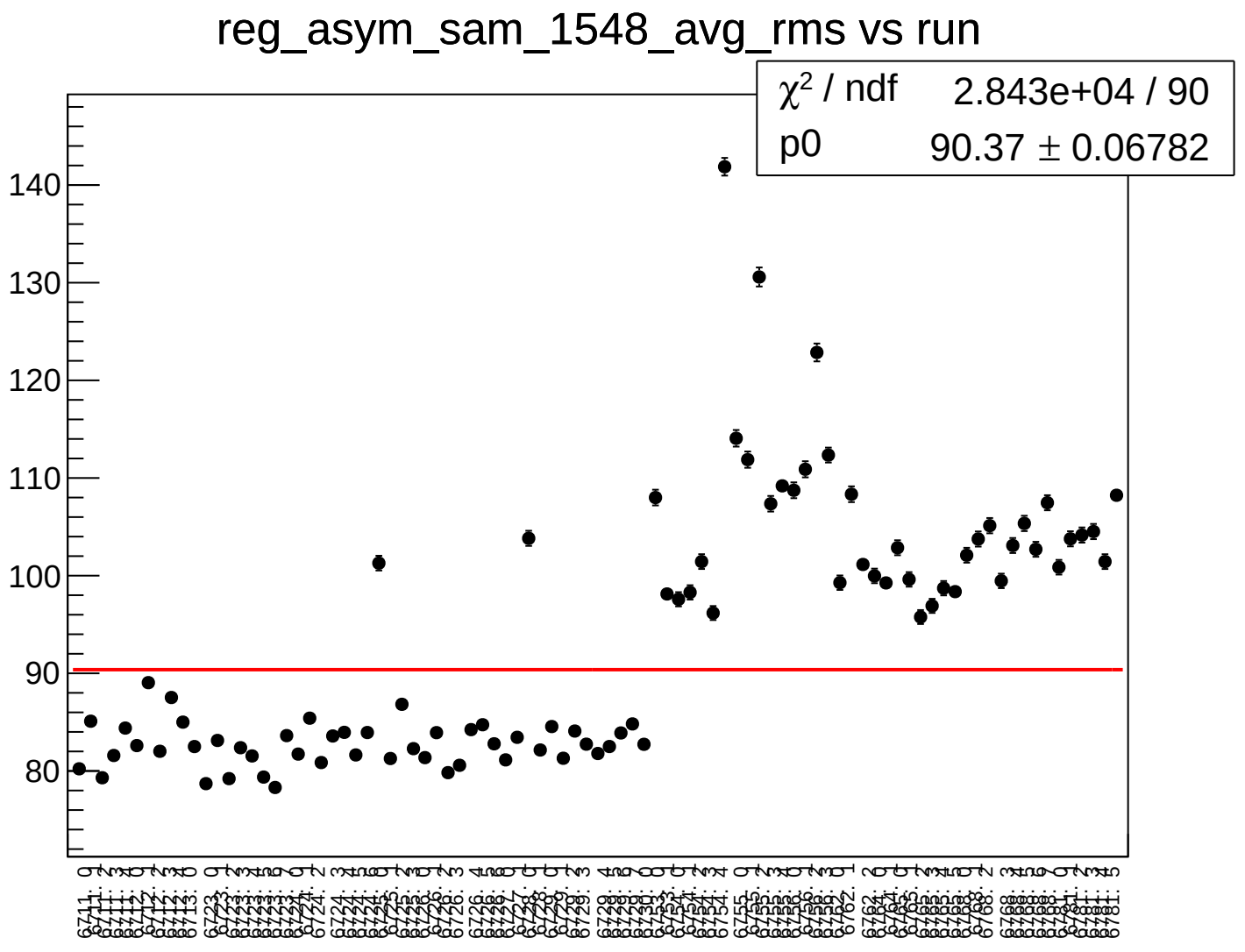

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.5 / 90
p0 −6.806e−15 ± 8.875e−15
pull
Entries 91
Mean −3467
Std Dev 0

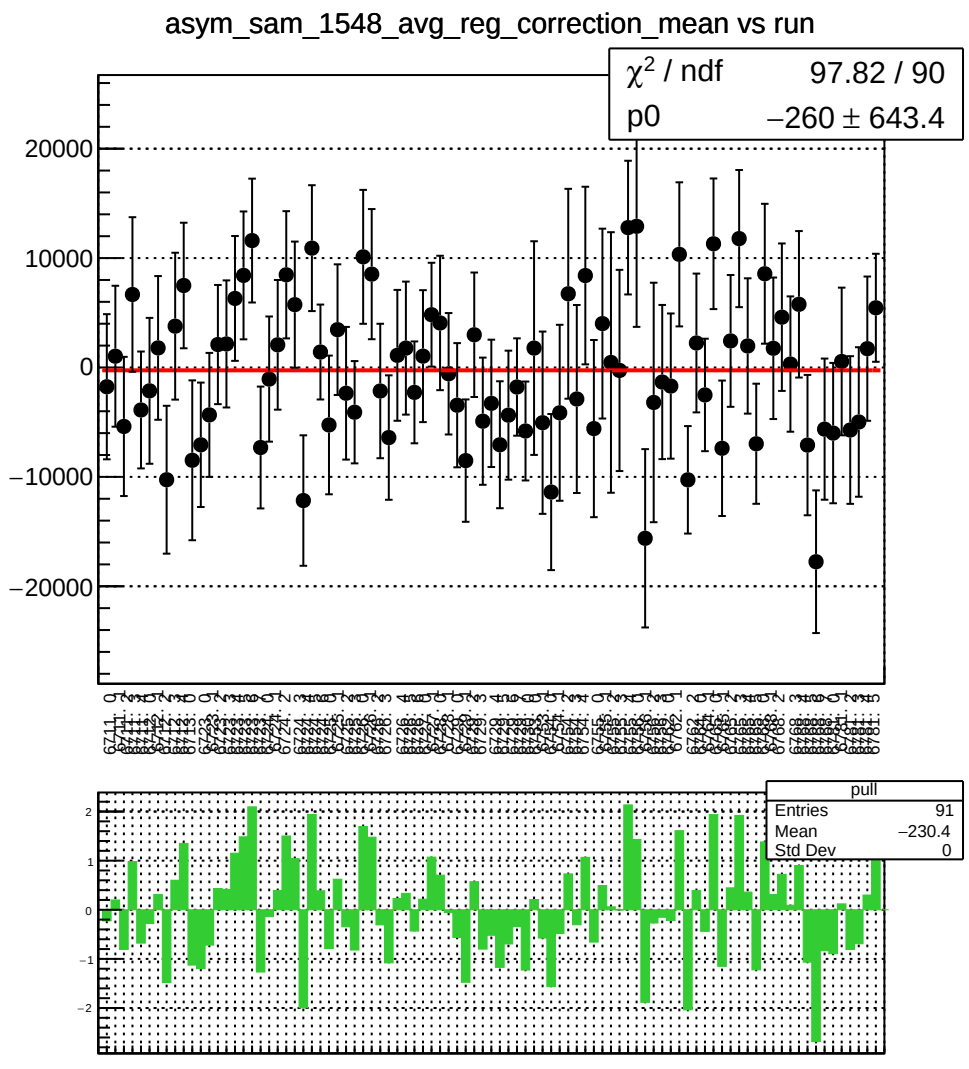

pull1D
Entries 91
Mean 0.0003166
Std Dev 0.9169

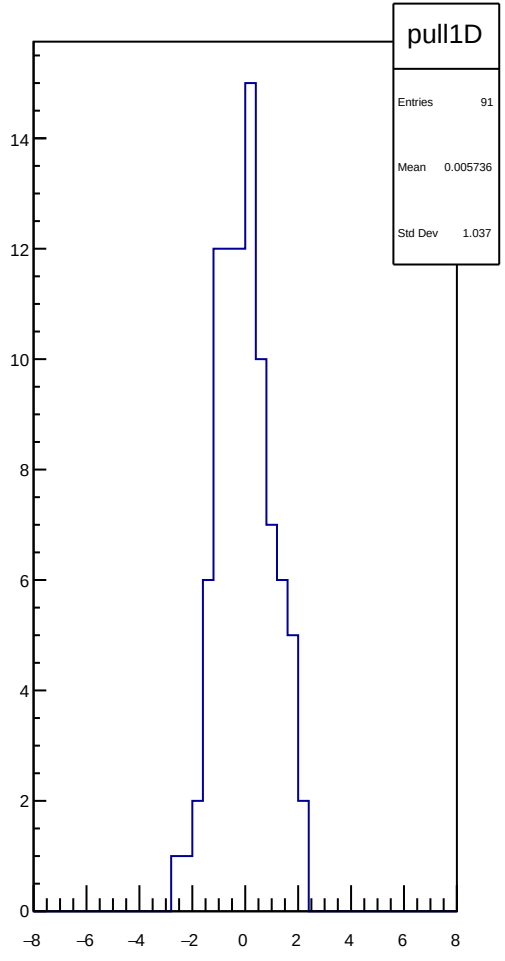

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.291e+05 / 90
p0 6.507e−12 ± 6.275e−15
70
60
50
40
30
20
10

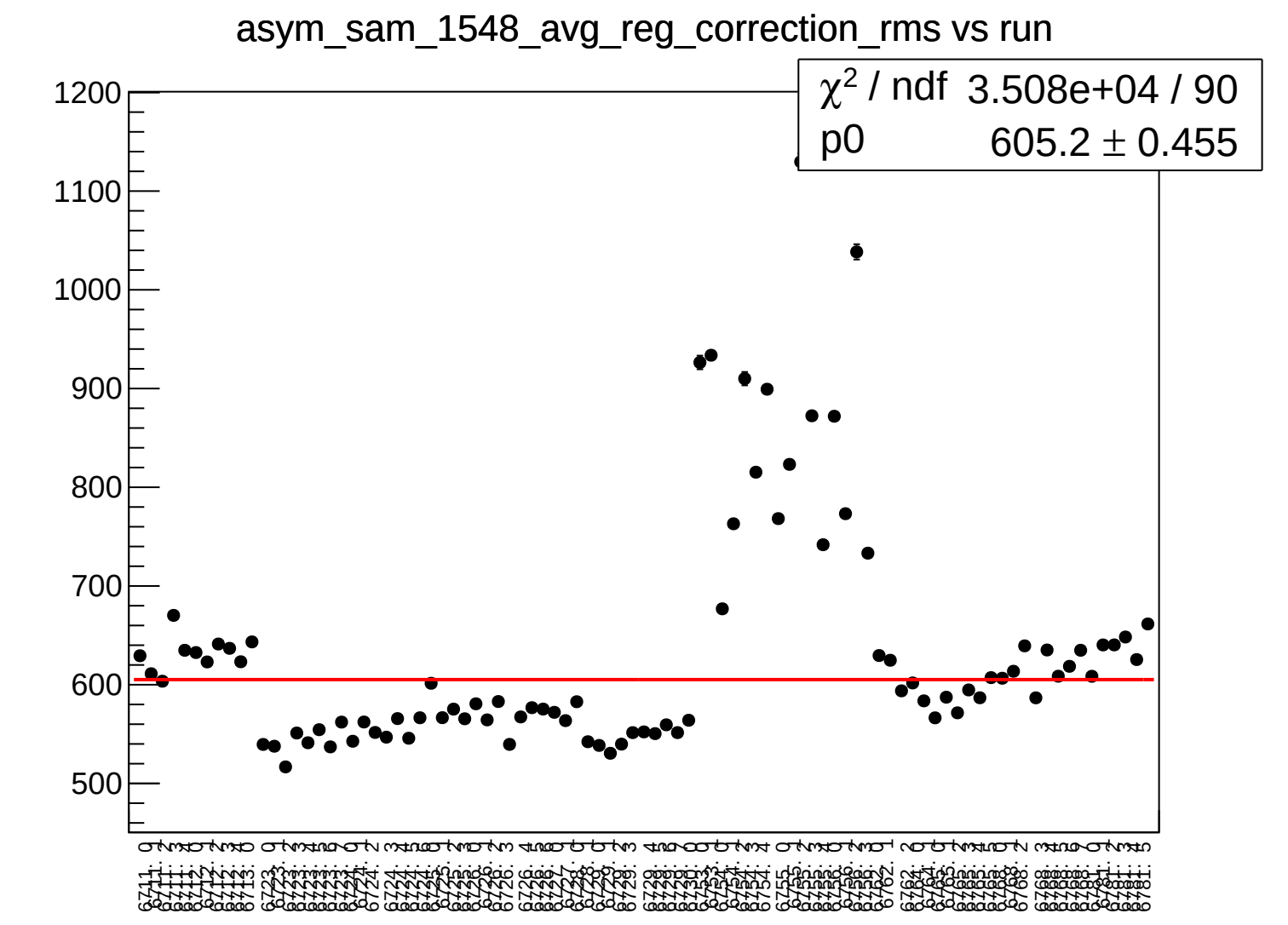

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 109.6 / 90
p0 −48.7 ± 95.91
pull
Entries 91
Mean 59.5
Std Dev 81.8

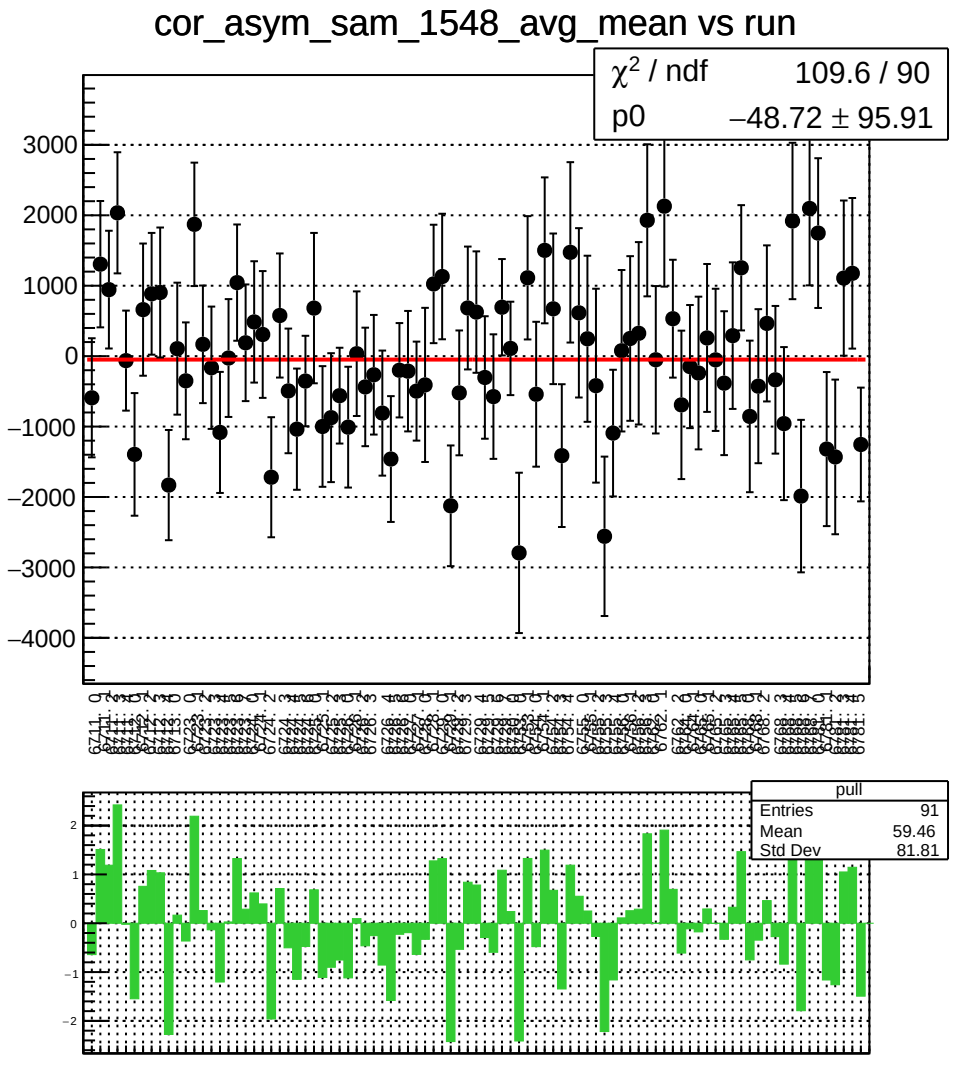

pull1D
Entries 91
Mean 0.0163
Std Dev 1.097

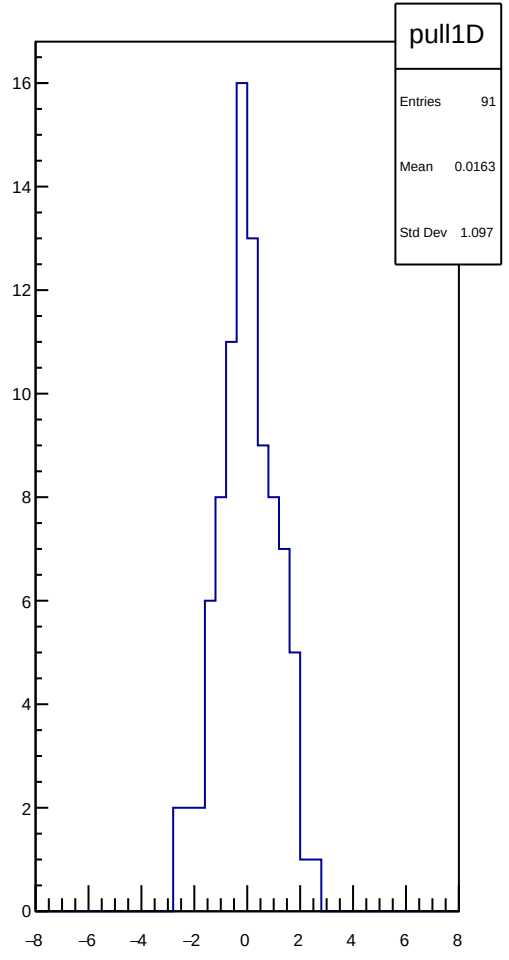

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 2.843e+04 / 90
p0 90.37 ± 0.06782
140
130
120
110
100
90
80

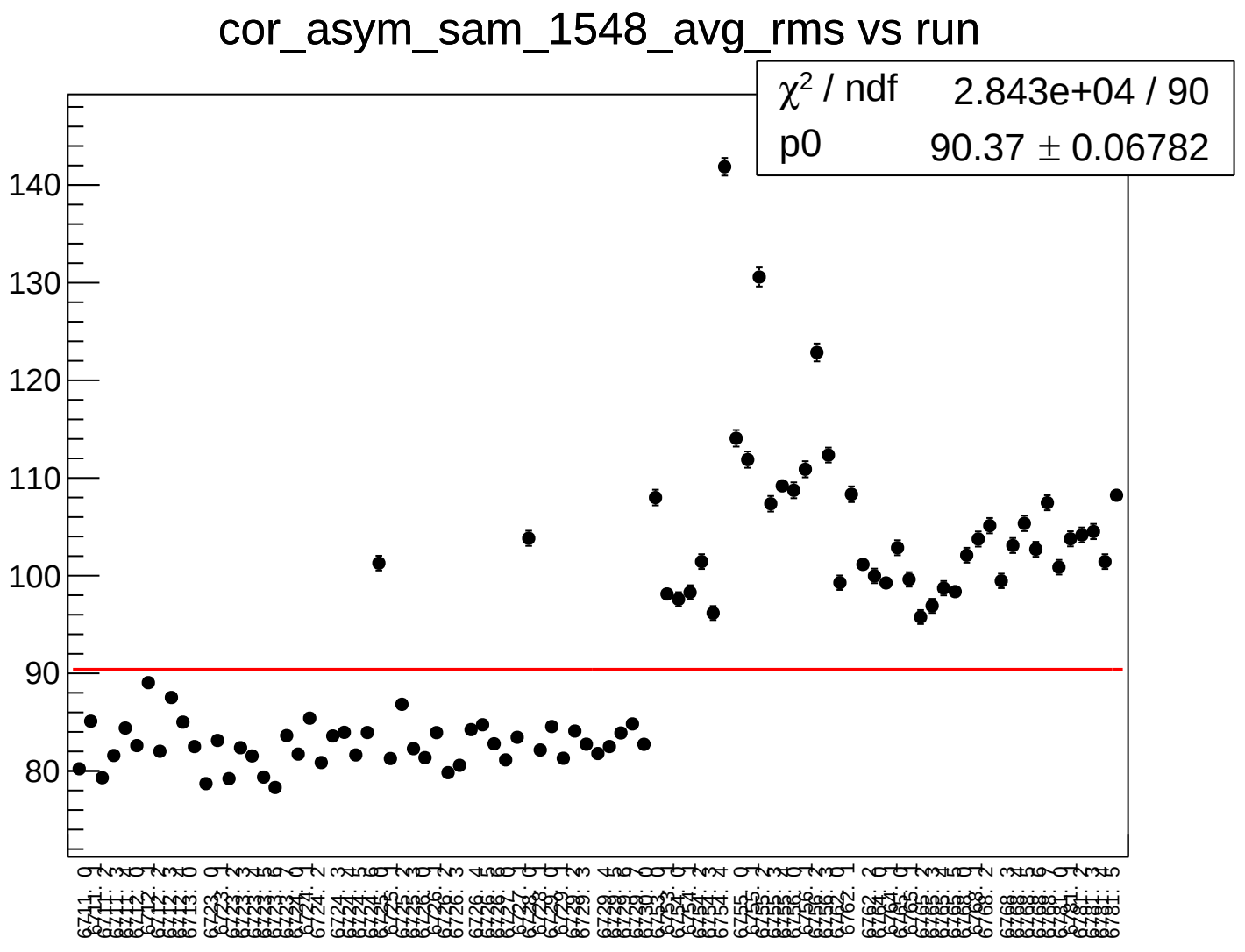

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 97.82 / 90
p0 −260 ± 643.4
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −230.4
Std Dev 0
2
1
0
−1
−2

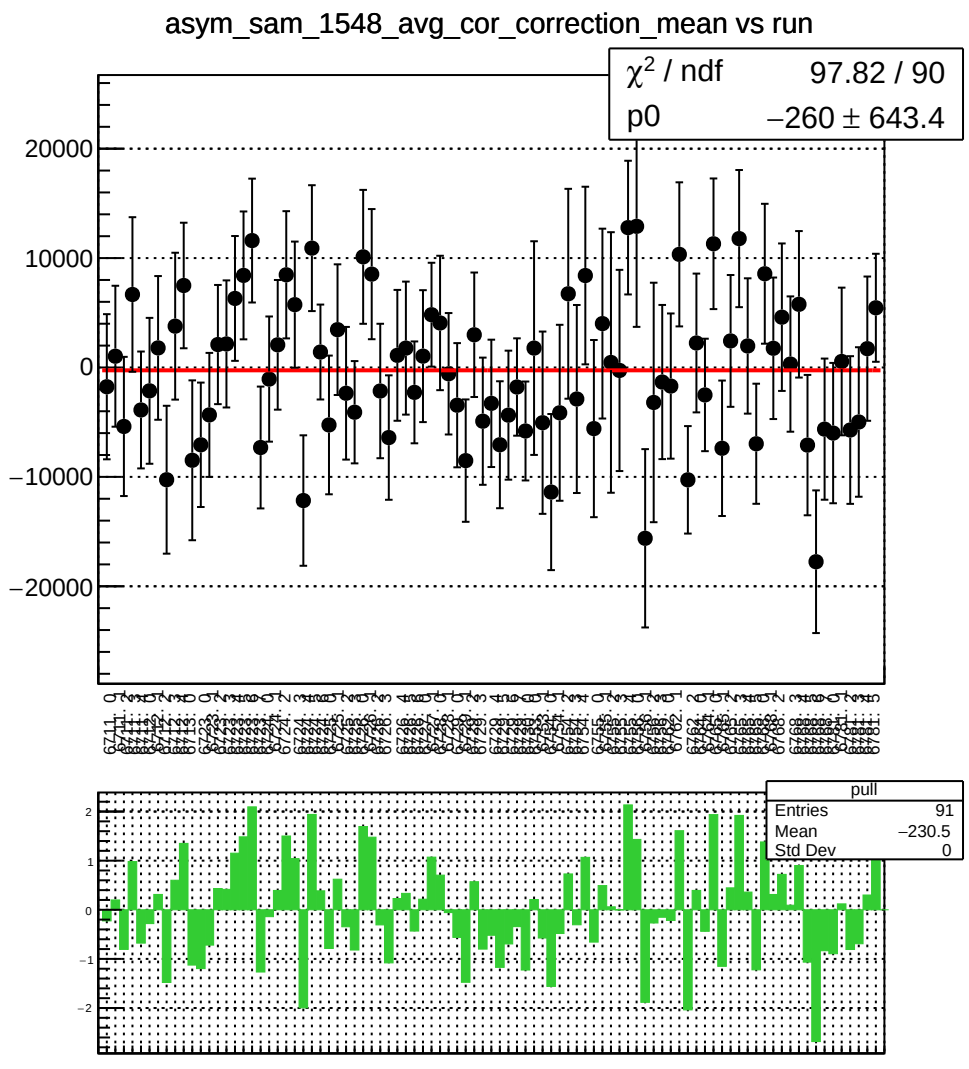

pull1D
Entries 91
Mean 0.005736
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

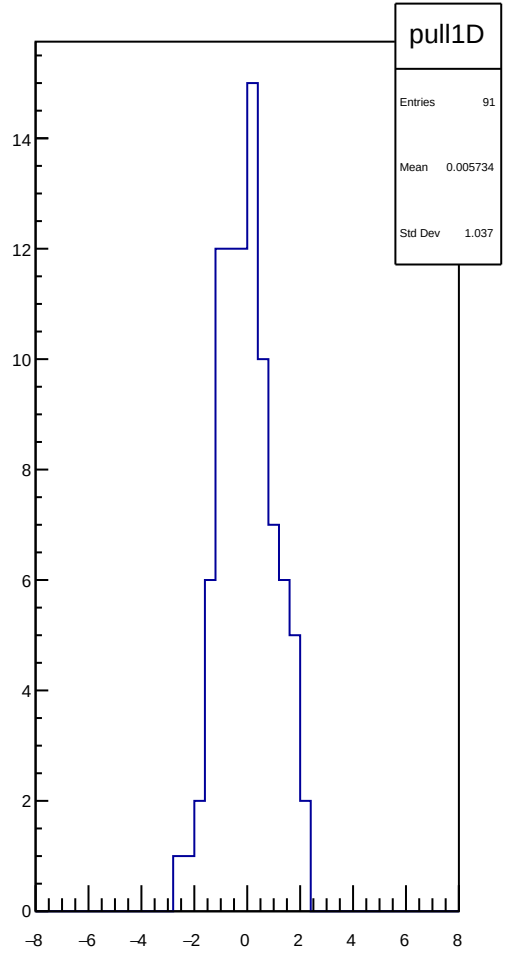

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 3.508e+04 / 90
p0 605.2 ± 0.455
1200
1100
1000
900
800
700
600
500

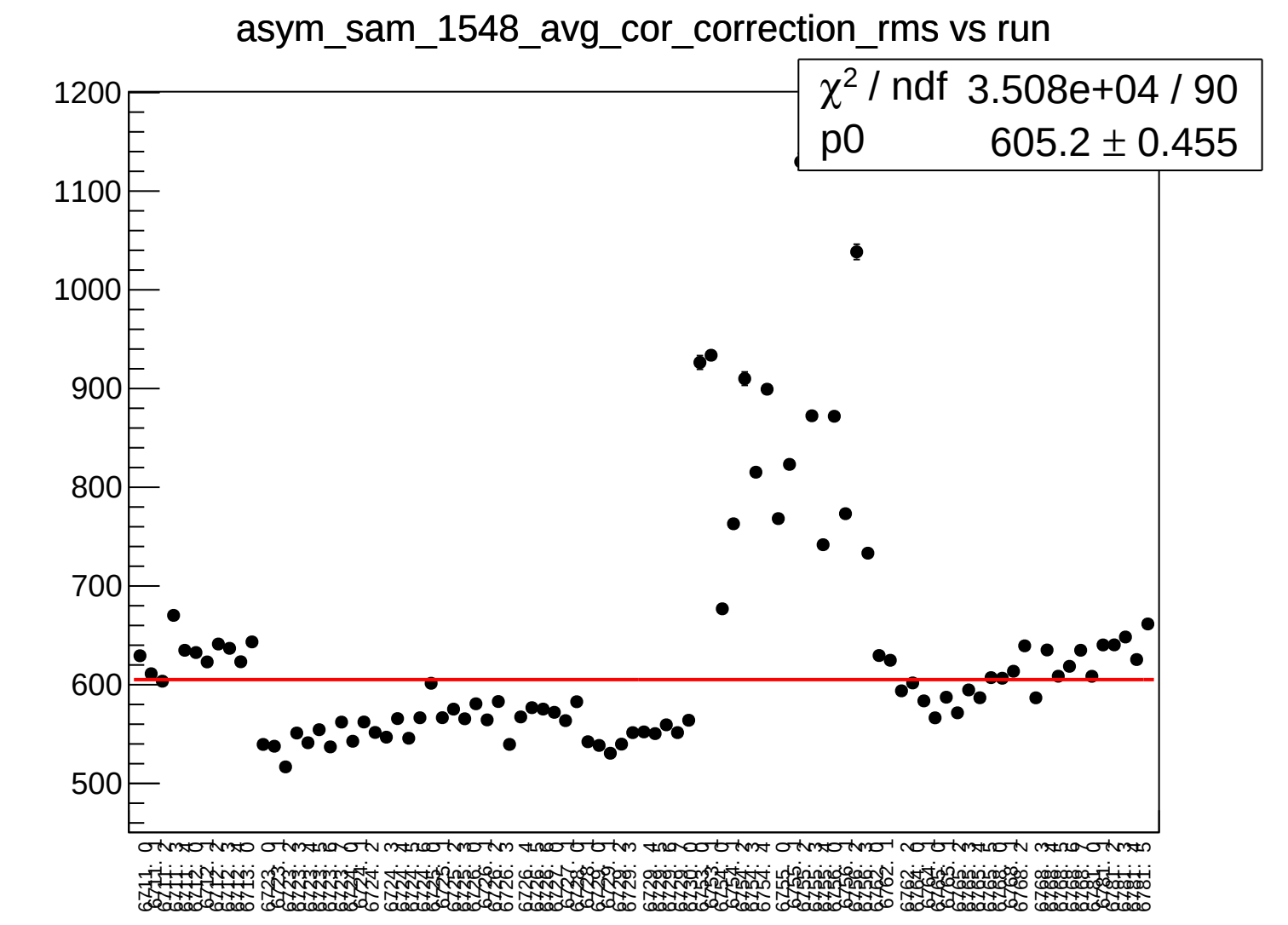

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 109.6 / 90
p0 −48.72 ± 95.91
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 91
Mean 59.46
Std Dev 81.81
2
1
0
−1
−2

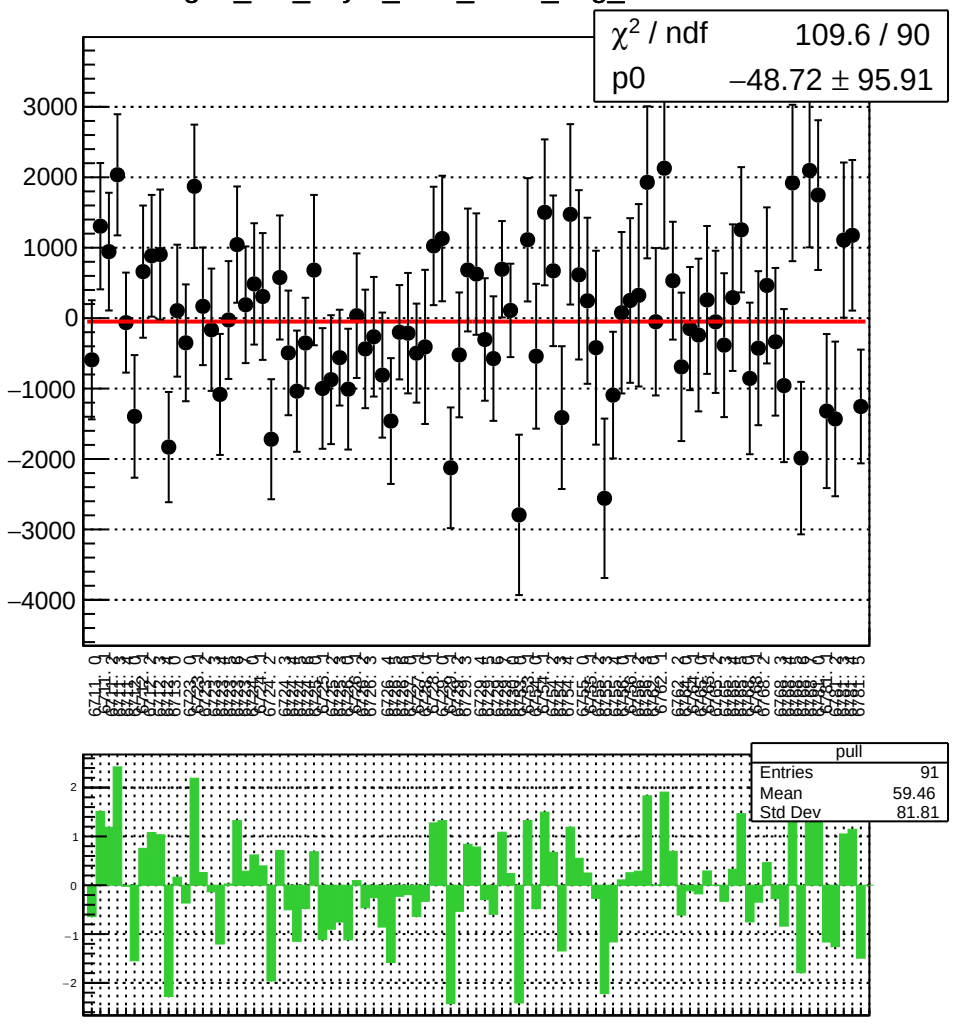

pull1D
Entries 91
Mean 0.0163
Std Dev 1.097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

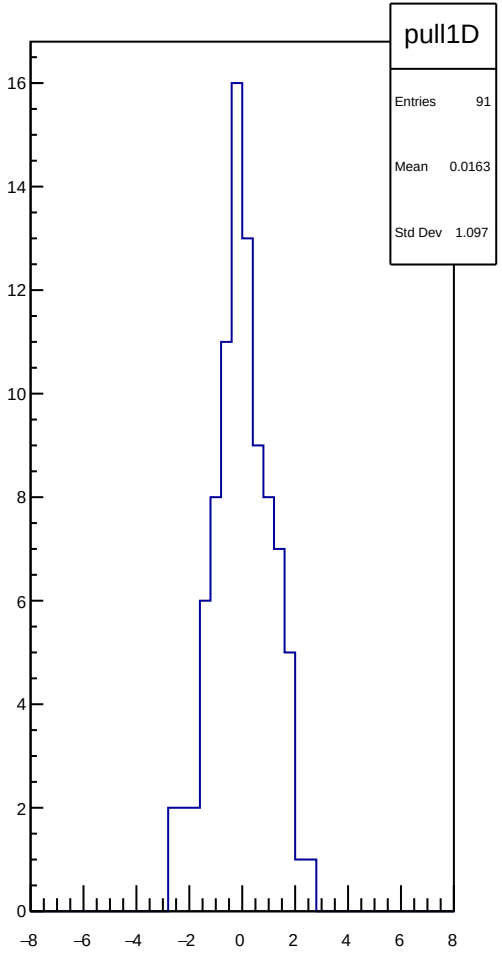

cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 2.843e+04 / 90
p0 90.37 ± 0.06782
140
130
120
110
100
90
80

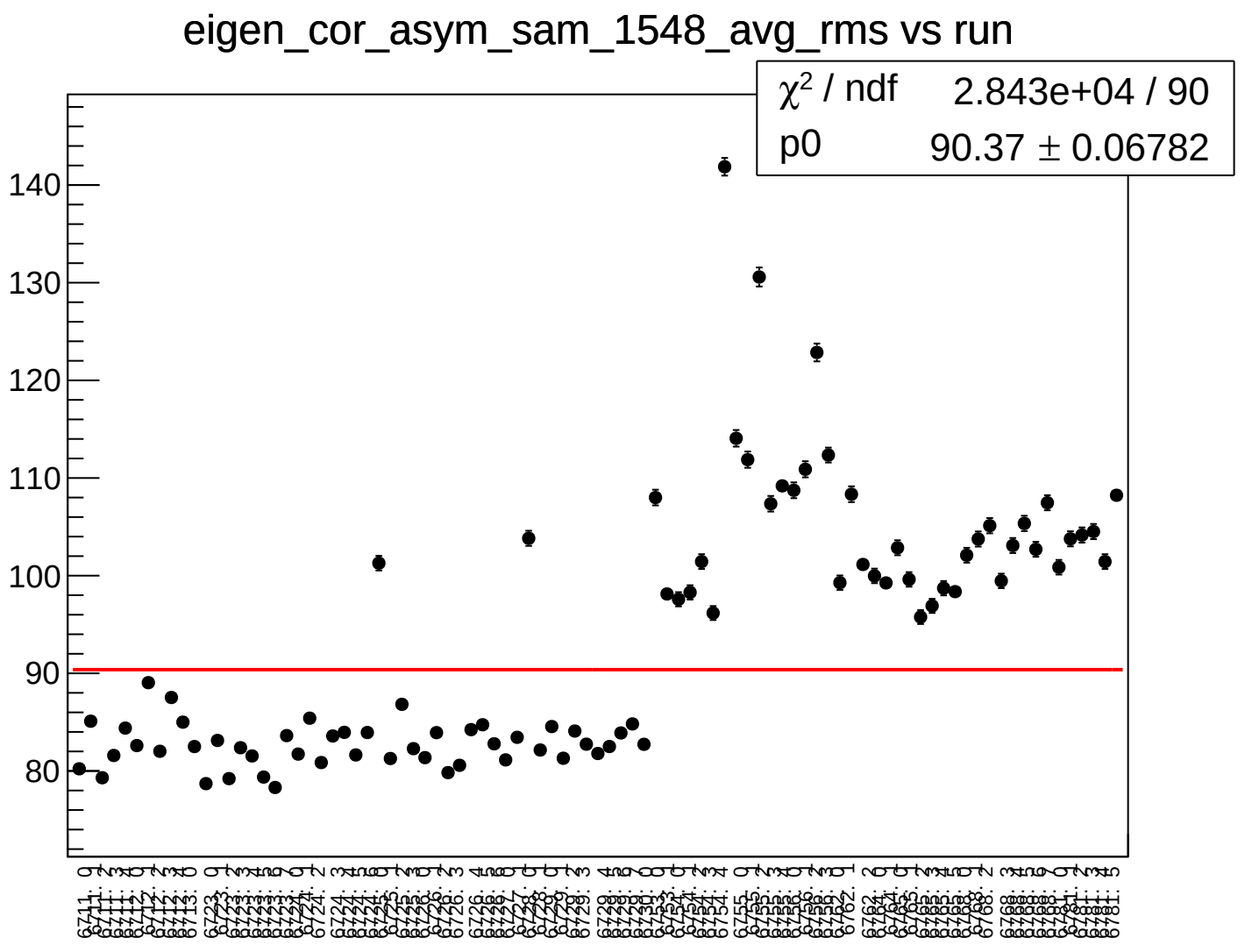

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 97.82 / 90
p0 −260 ± 643.4
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −230.5
Std Dev 0
2
1
0
−1
−2

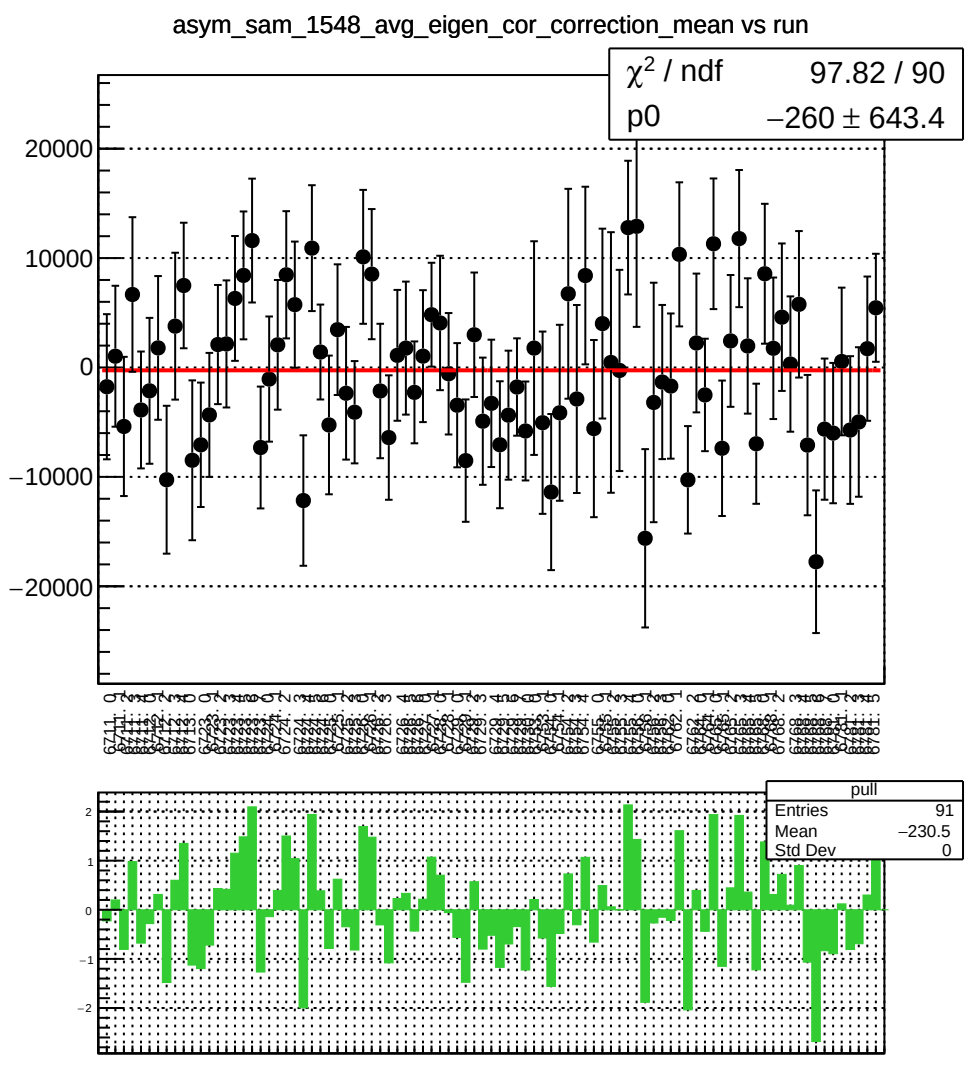

pull1D
Entries 91
Mean 0.005734
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

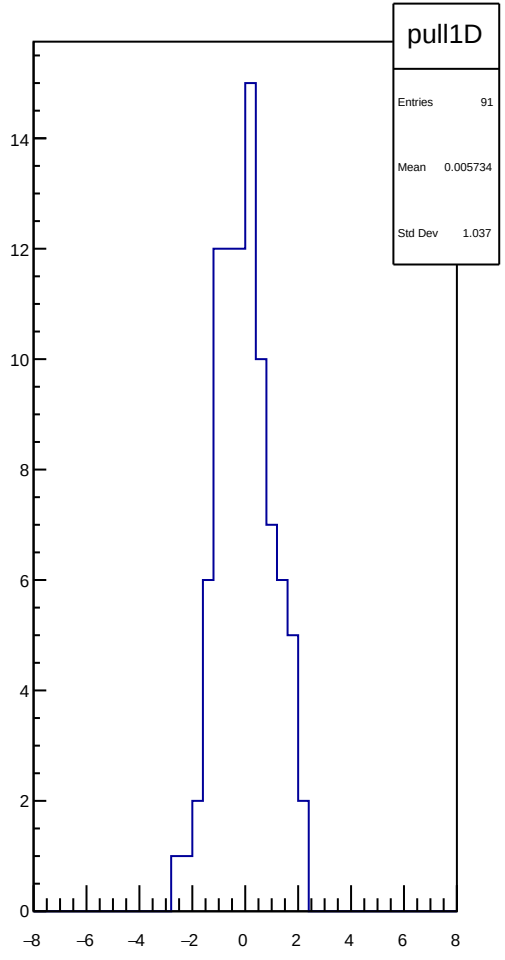

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 3.508e+04 / 90
p0 605.2 ± 0.455
1200
1100
1000
900
800
700
600
500

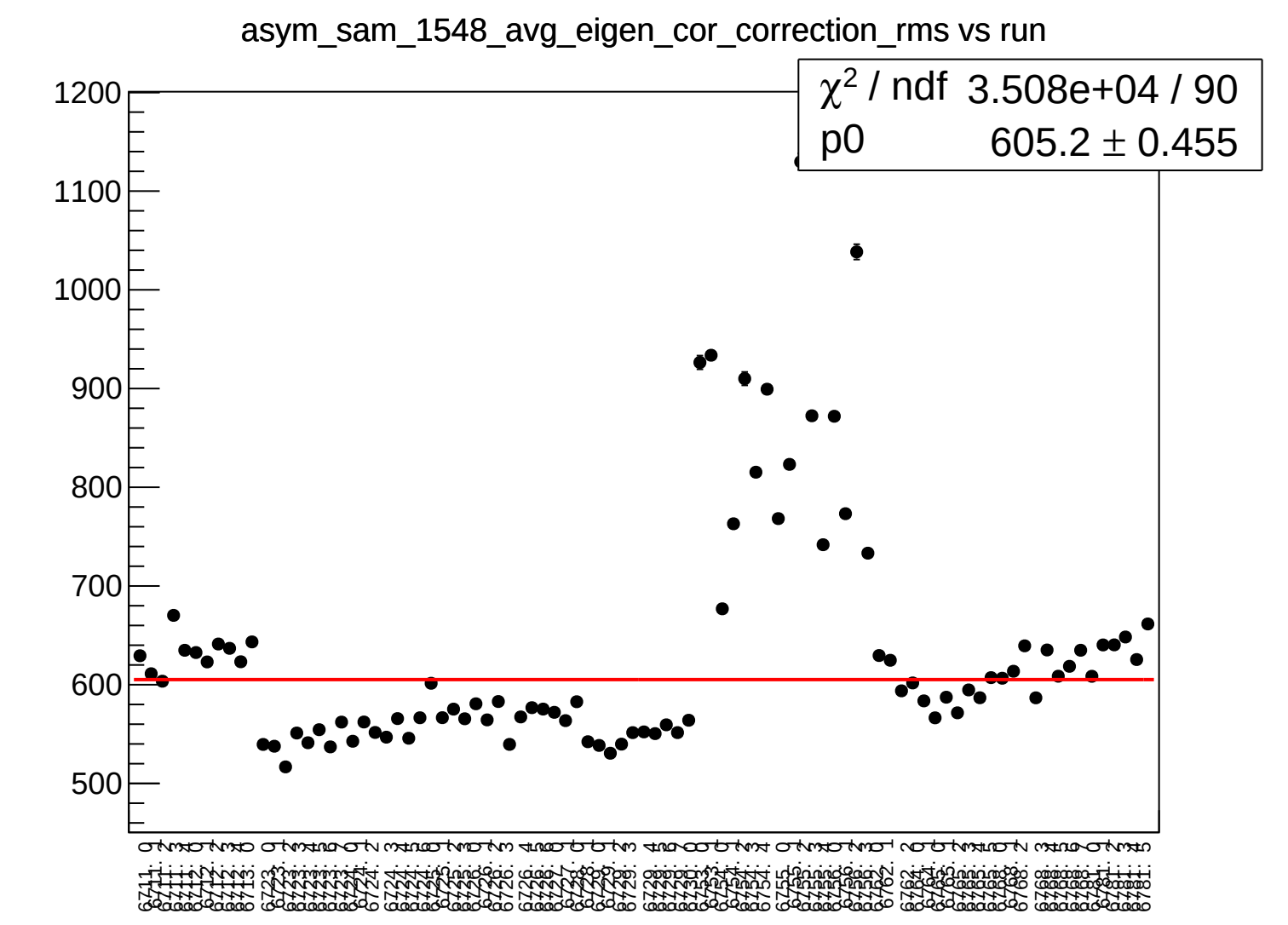

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 109.6 / 90
p0 −48.72 ± 95.91
pull
Entries 91
Mean 59.46
Std Dev 81.81

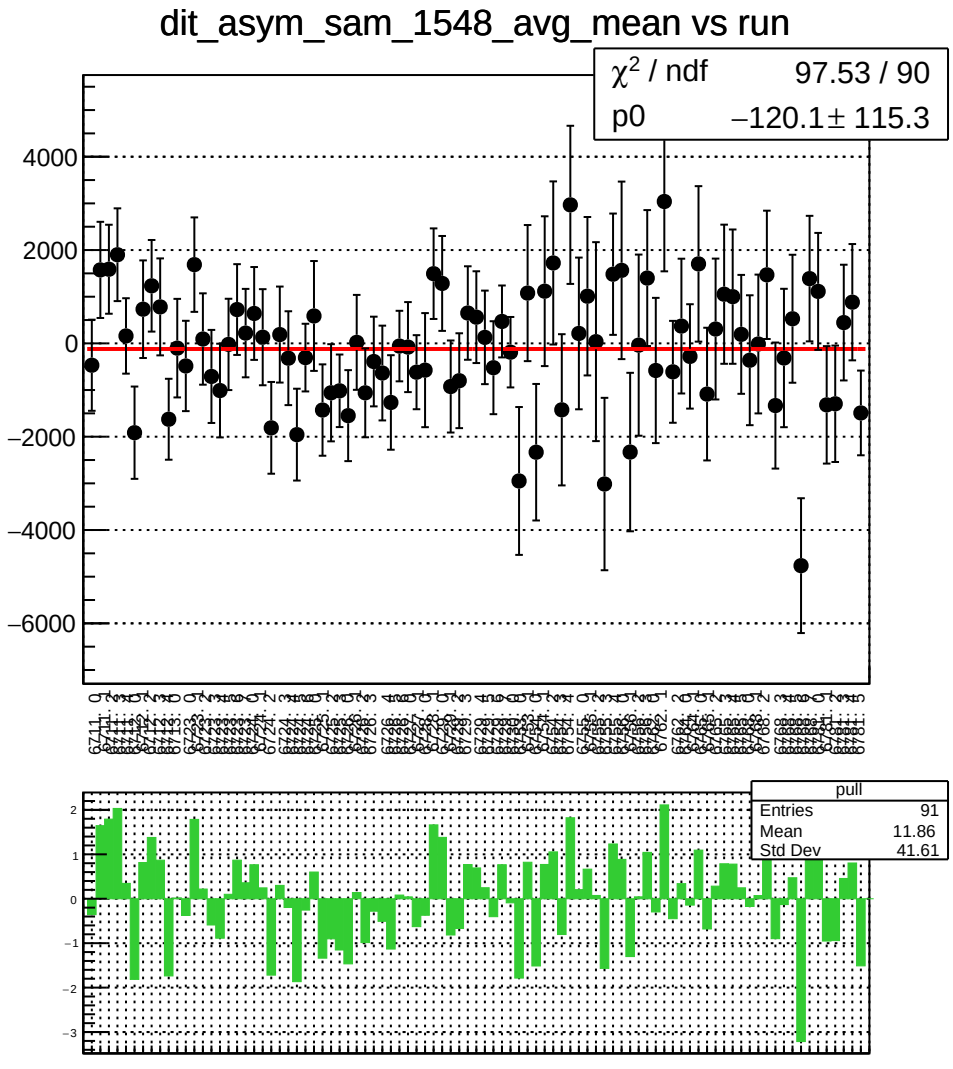

pull1D
Entries 91
Mean 0.0163
Std Dev 1.097

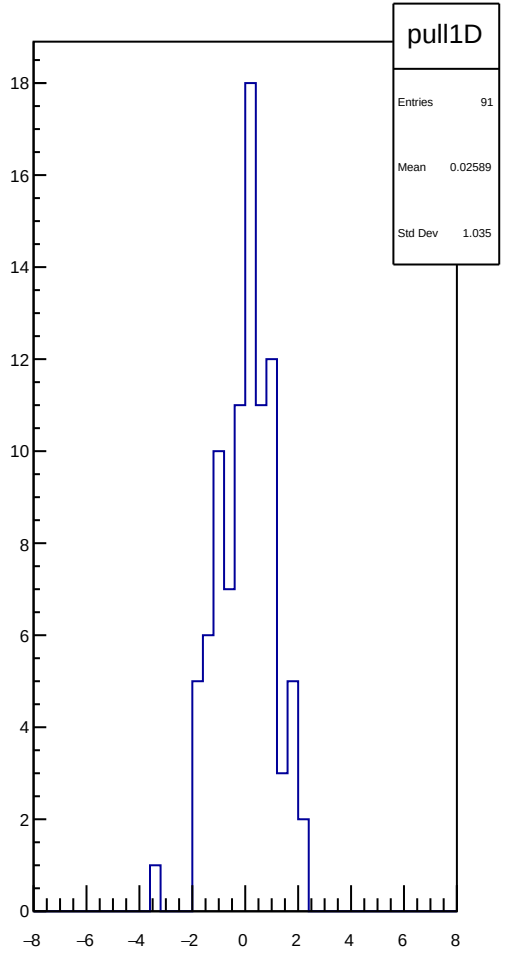

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 2.843e+04 / 90
p0 90.37 ± 0.06782
140
130
120
110
100
90
80

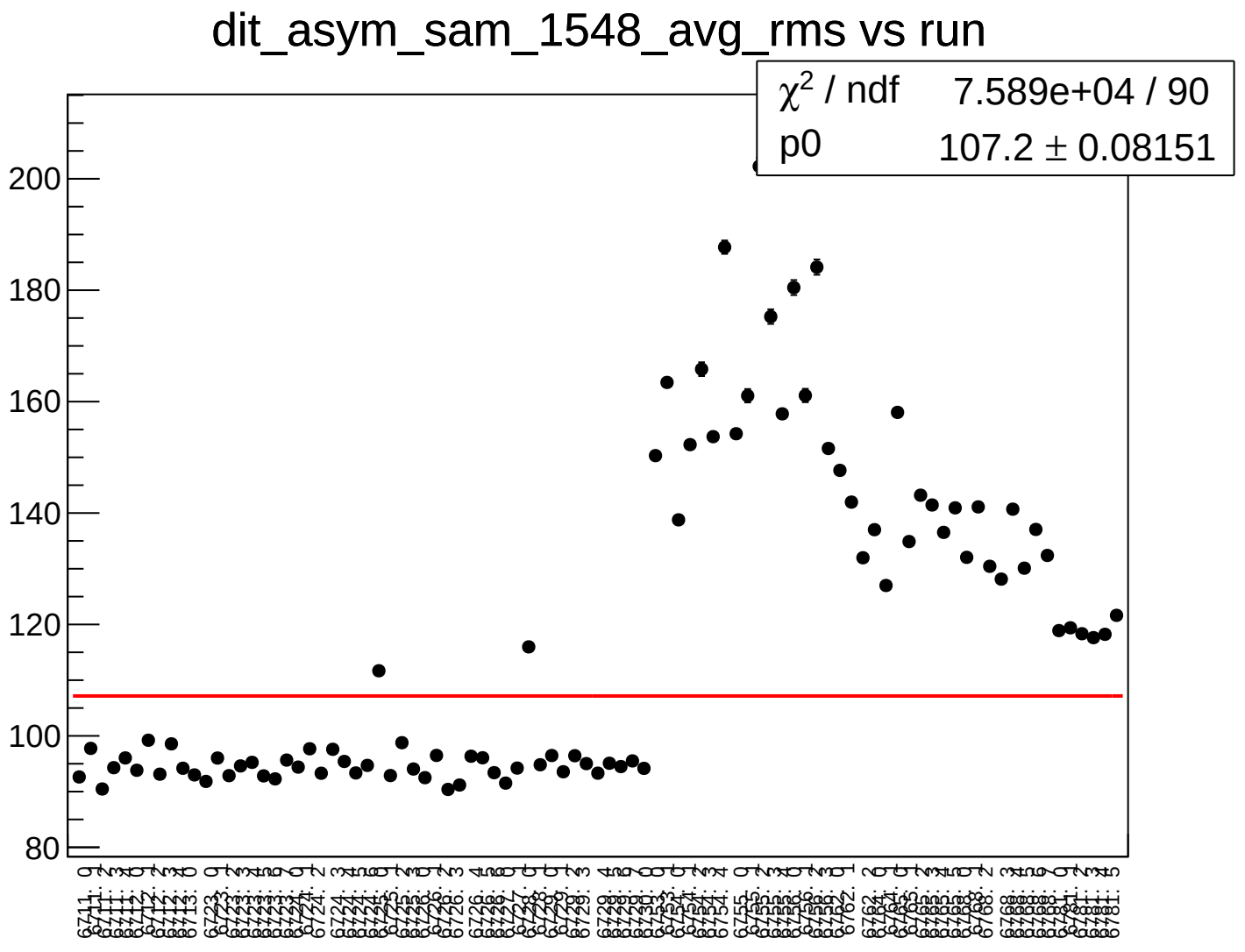

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.82 / 90
p0 −260 ± 643.4
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −230.5
Std Dev 0
2
1
0
−1
−2

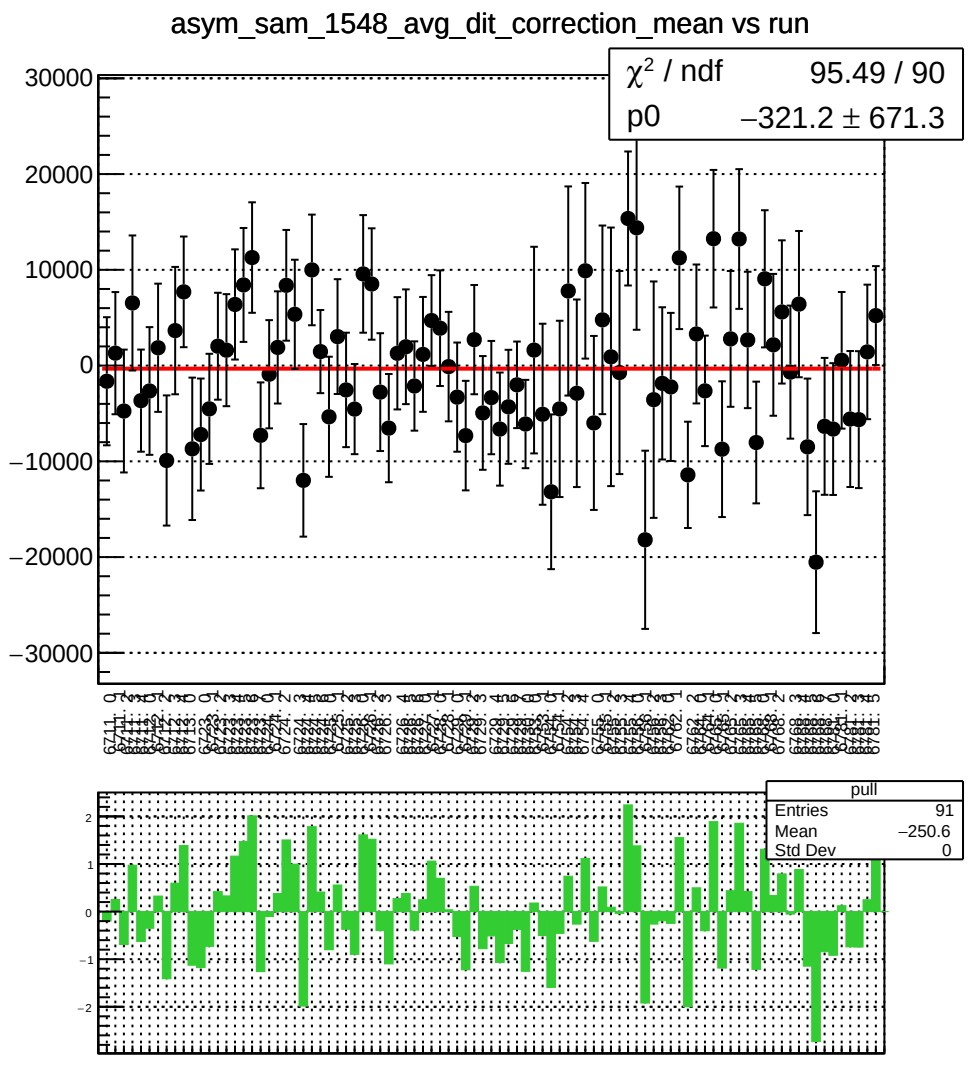

pull1D
Entries 91
Mean 0.005734
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

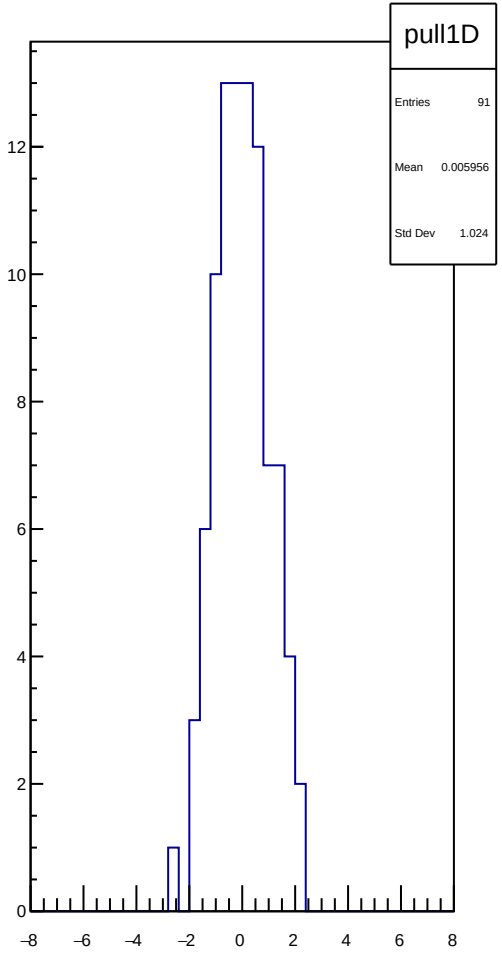

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.508e+04 / 90
p0 605.2 ± 0.455
1200
1100
1000
900
800
700
600
500

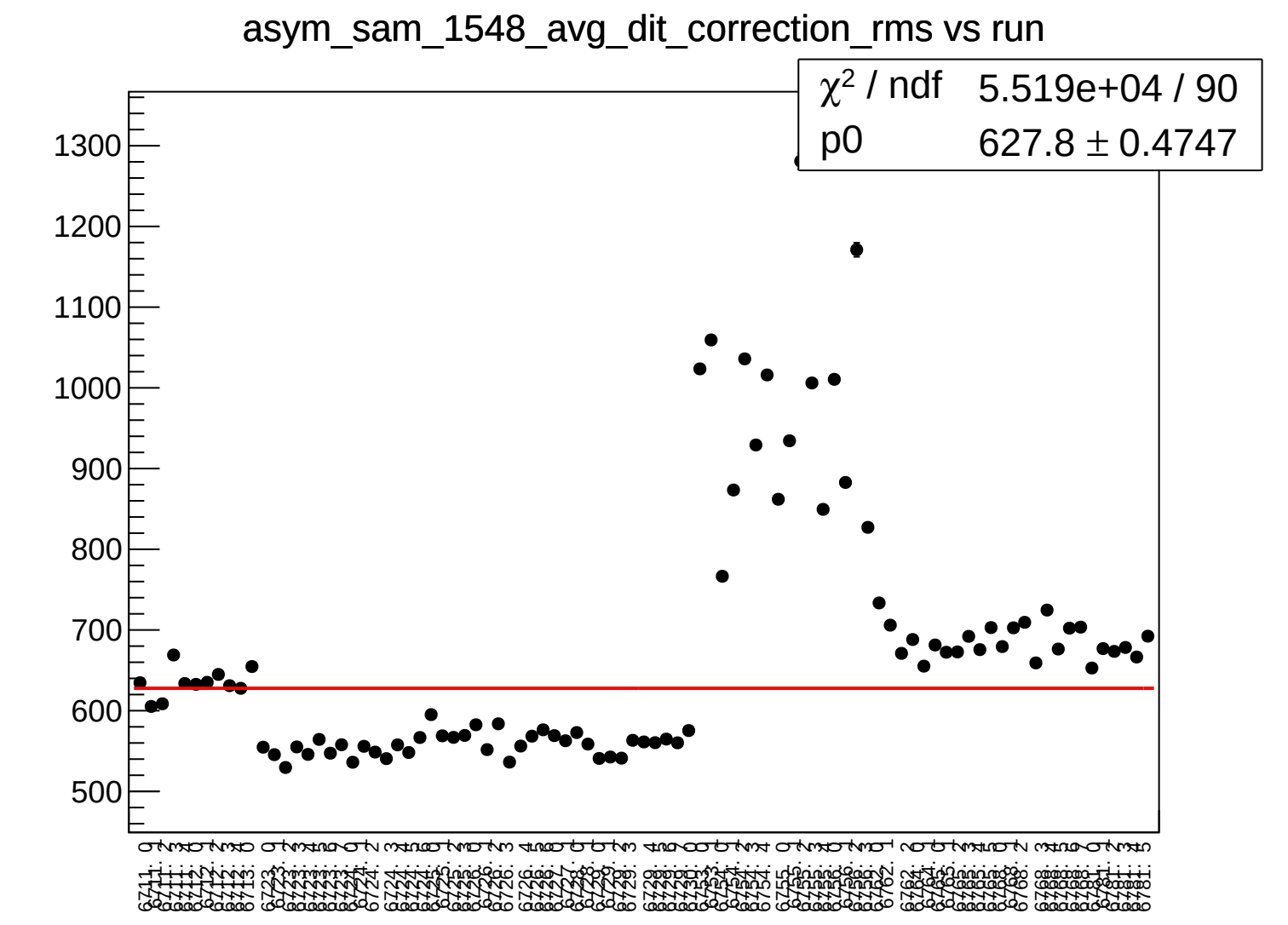

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 97.53 / 90
p0 −120.1± 115.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 11.86
Std Dev 41.61
2
1
0
−1
−2
−3

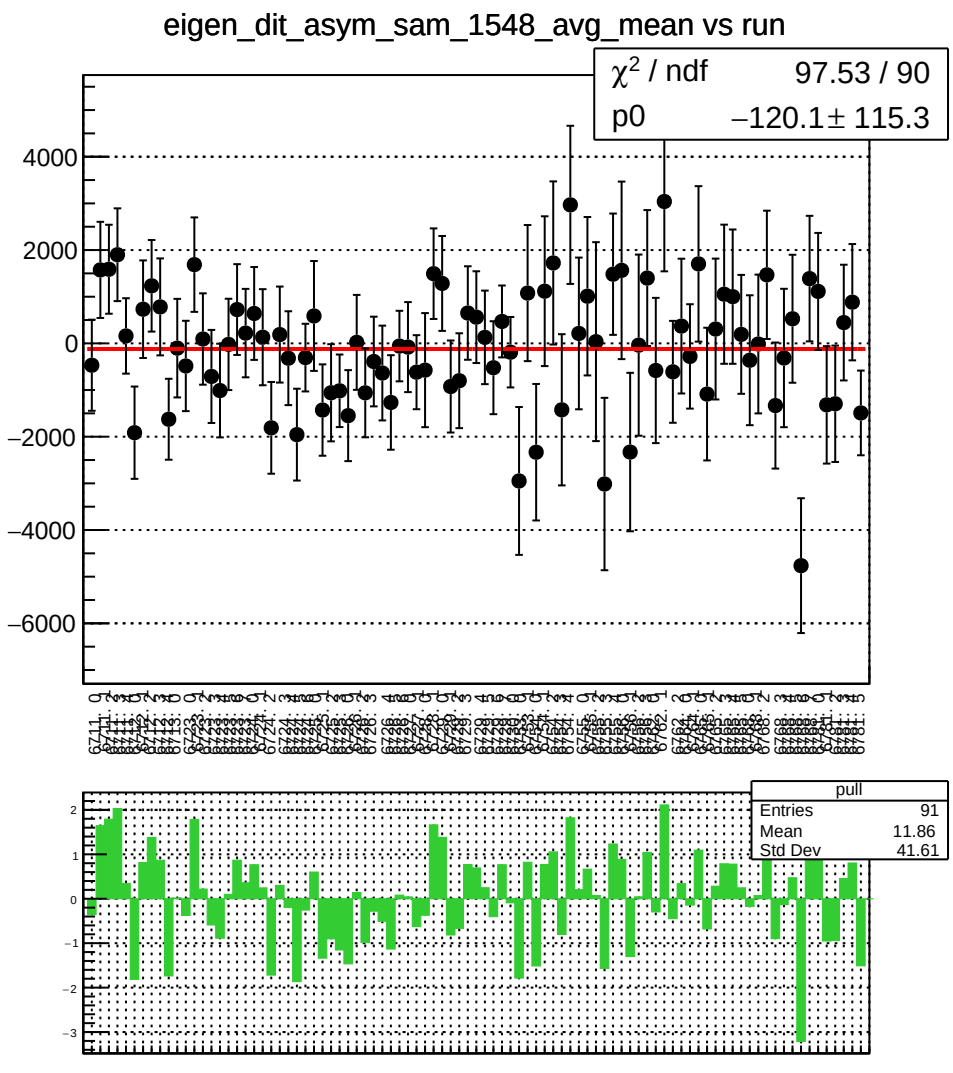

pull1D
Entries 91
Mean 0.02589
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

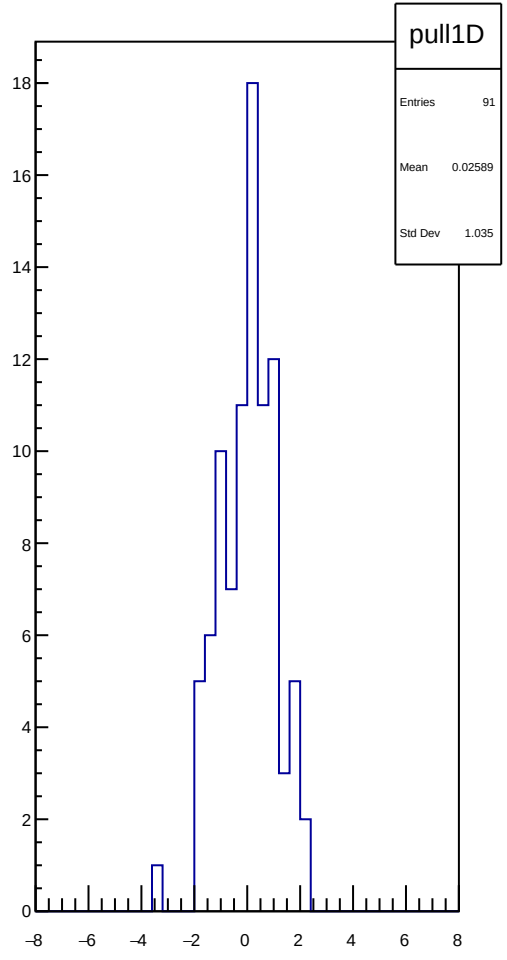

dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 7.589e+04 / 90
p0 107.2 ± 0.08151
200
180
160
140
120
100
80

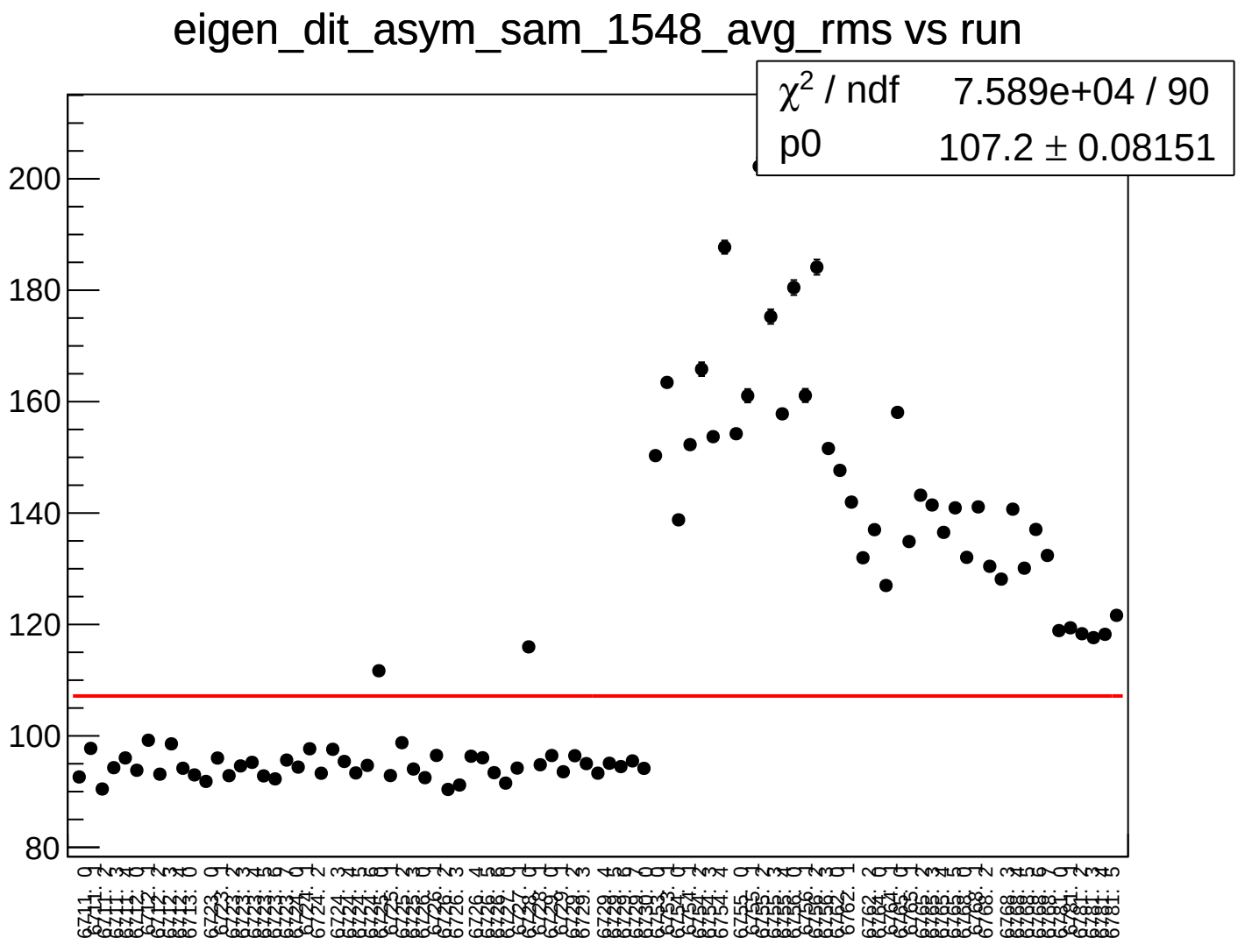

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 95.49 / 90
p0 −321.2 ± 671.3
pull
Entries 91
Mean −250.6
Std Dev 0

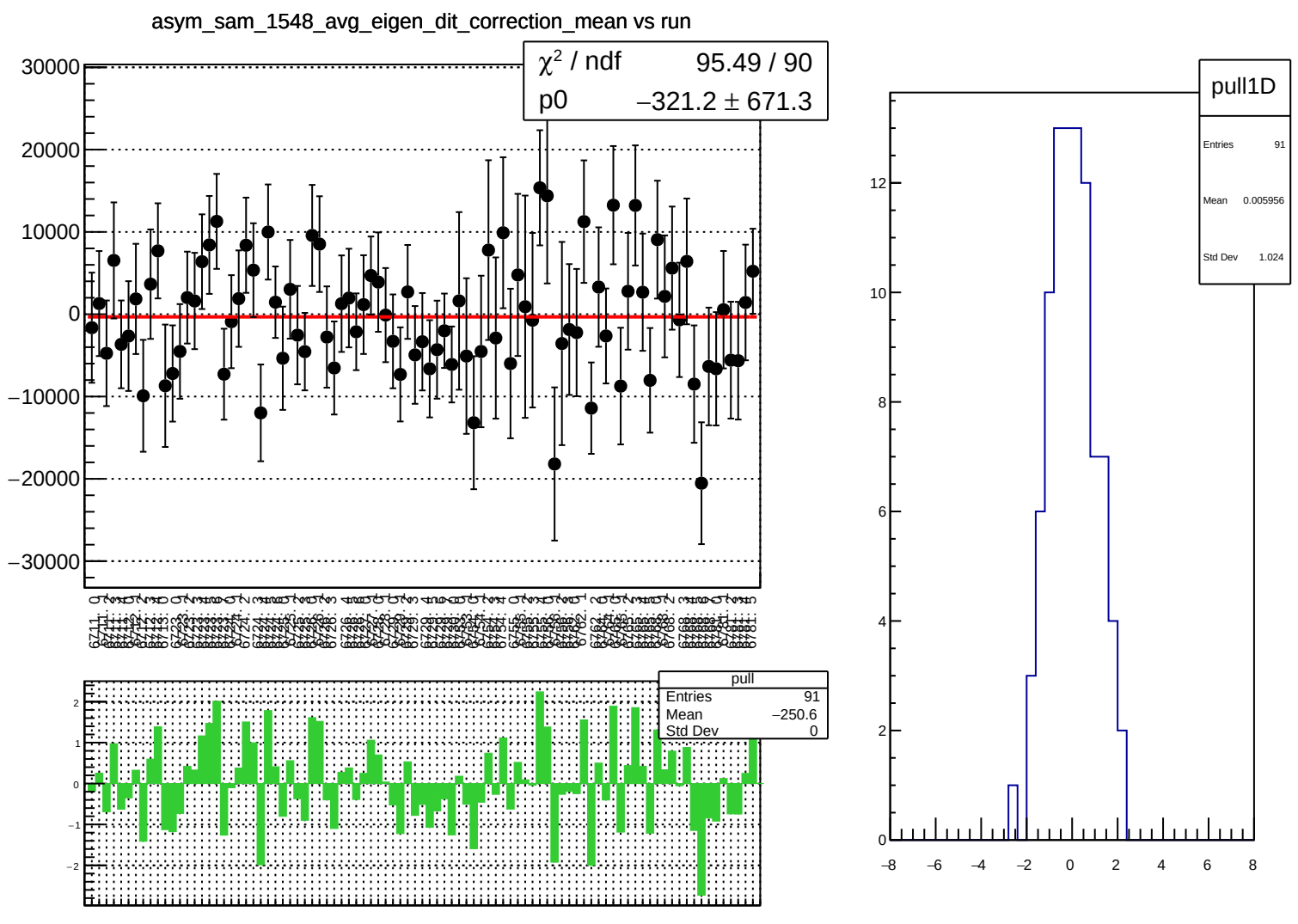

pull1D
Entries 91
Mean 0.005956
Std Dev 1.024

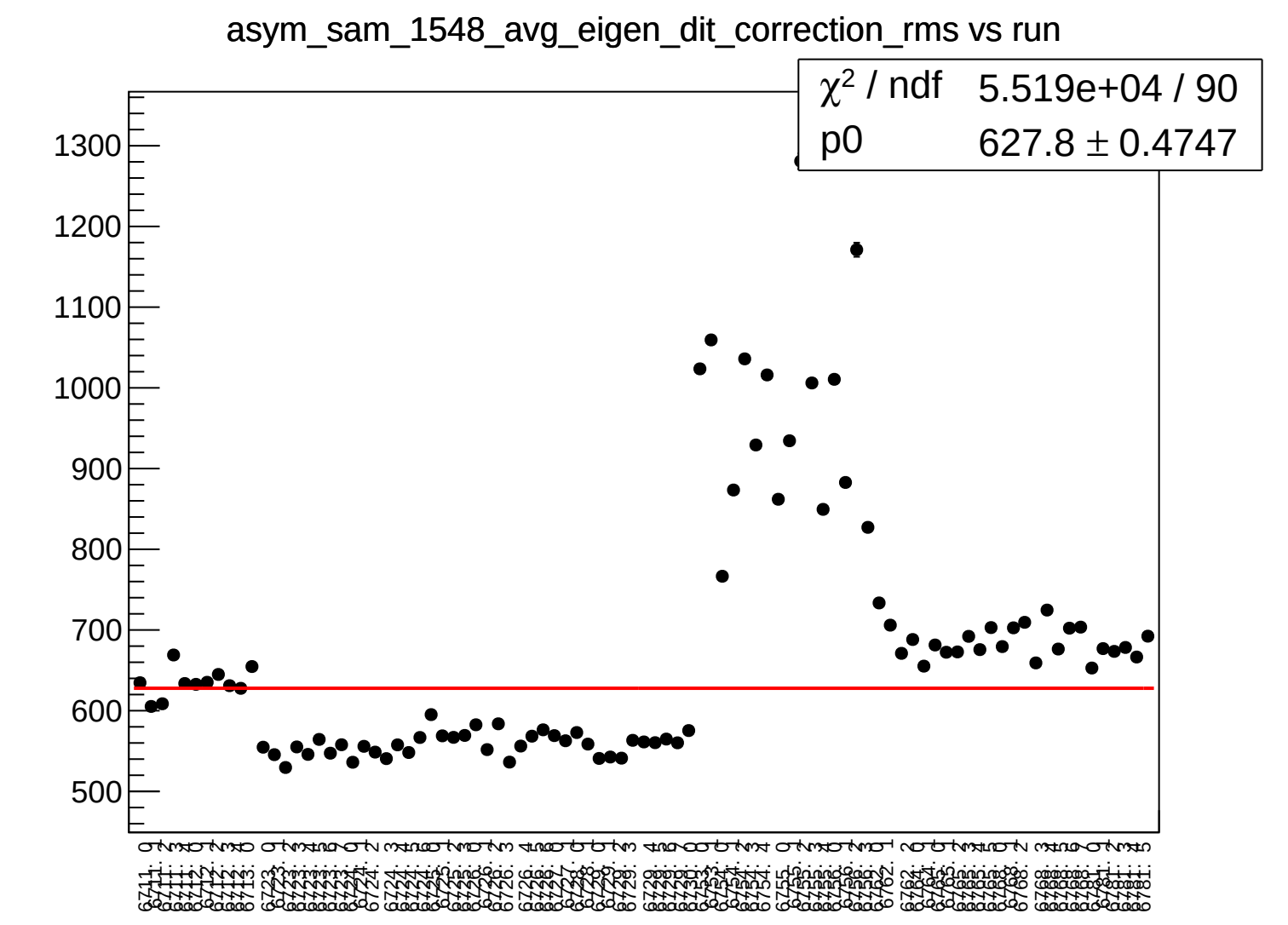

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 5.519e+04 / 90
p0 627.8 ± 0.4747
1300
1200
1100
1000
900
800
700
600
500

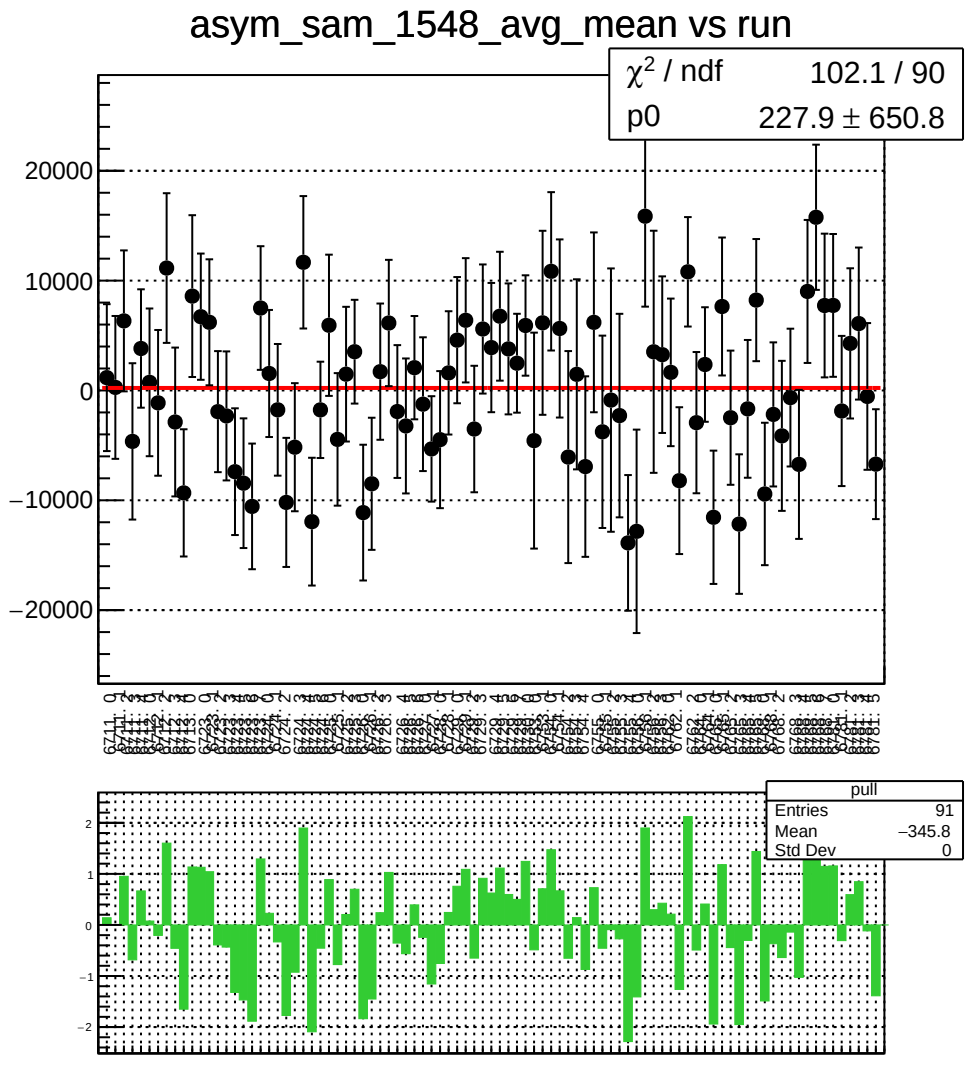

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 97.53 / 90
p0 −120.1± 115.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 11.86
Std Dev 41.61
2
1
0
−1
−2
−3

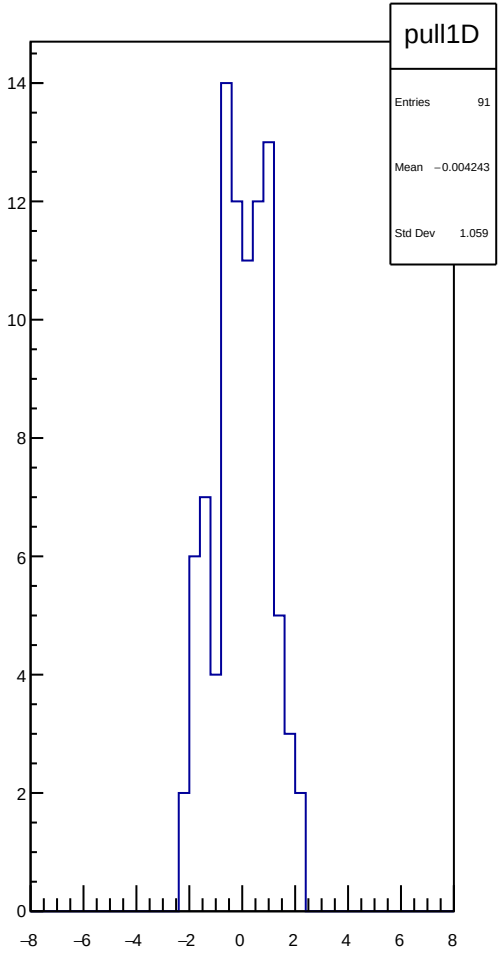

pull1D
Entries 91
Mean 0.02589
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

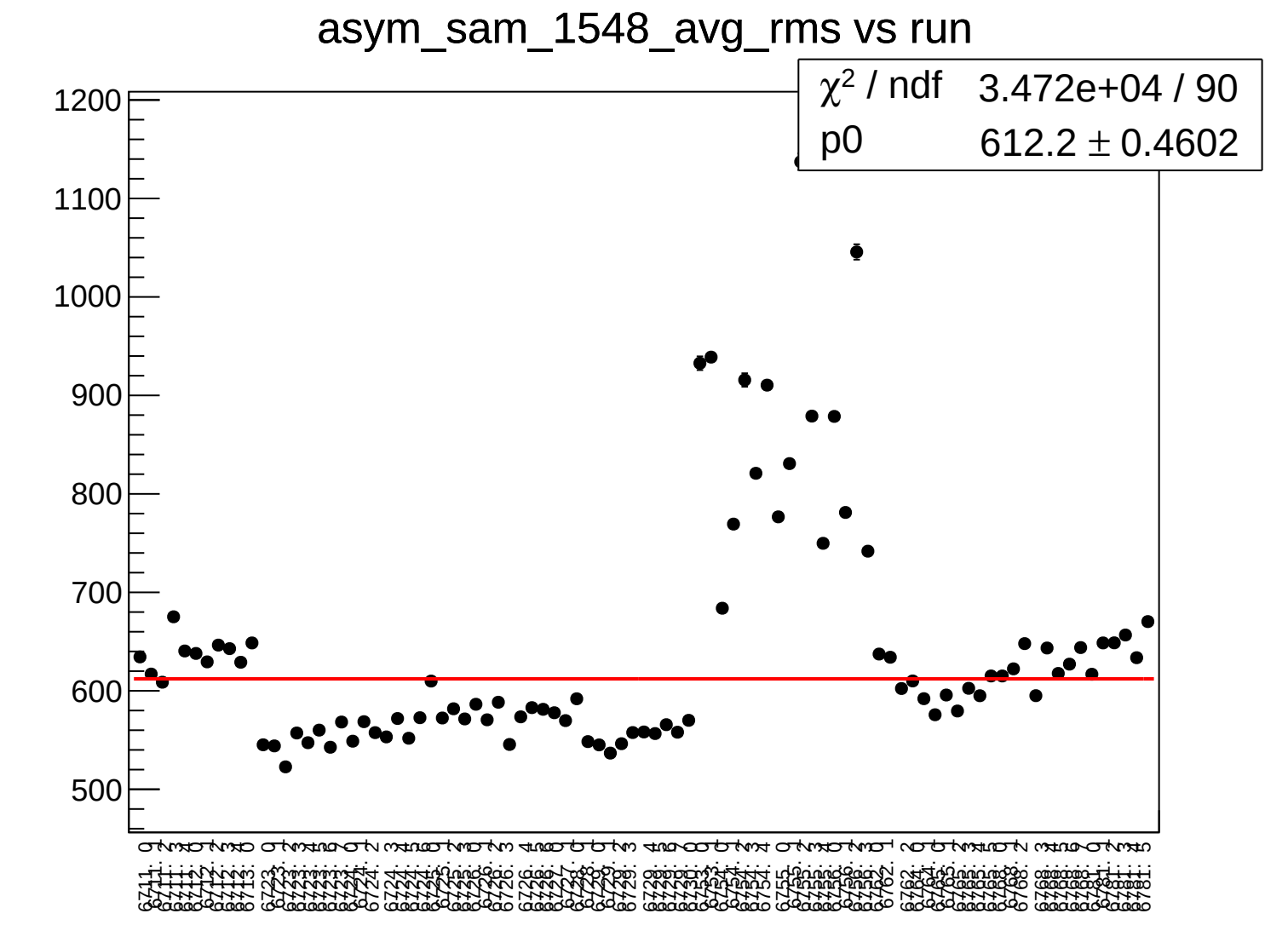

eigen_dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 7.589e+04 / 90
p0 107.2 ± 0.08151
200
180
160
140
120
100
80

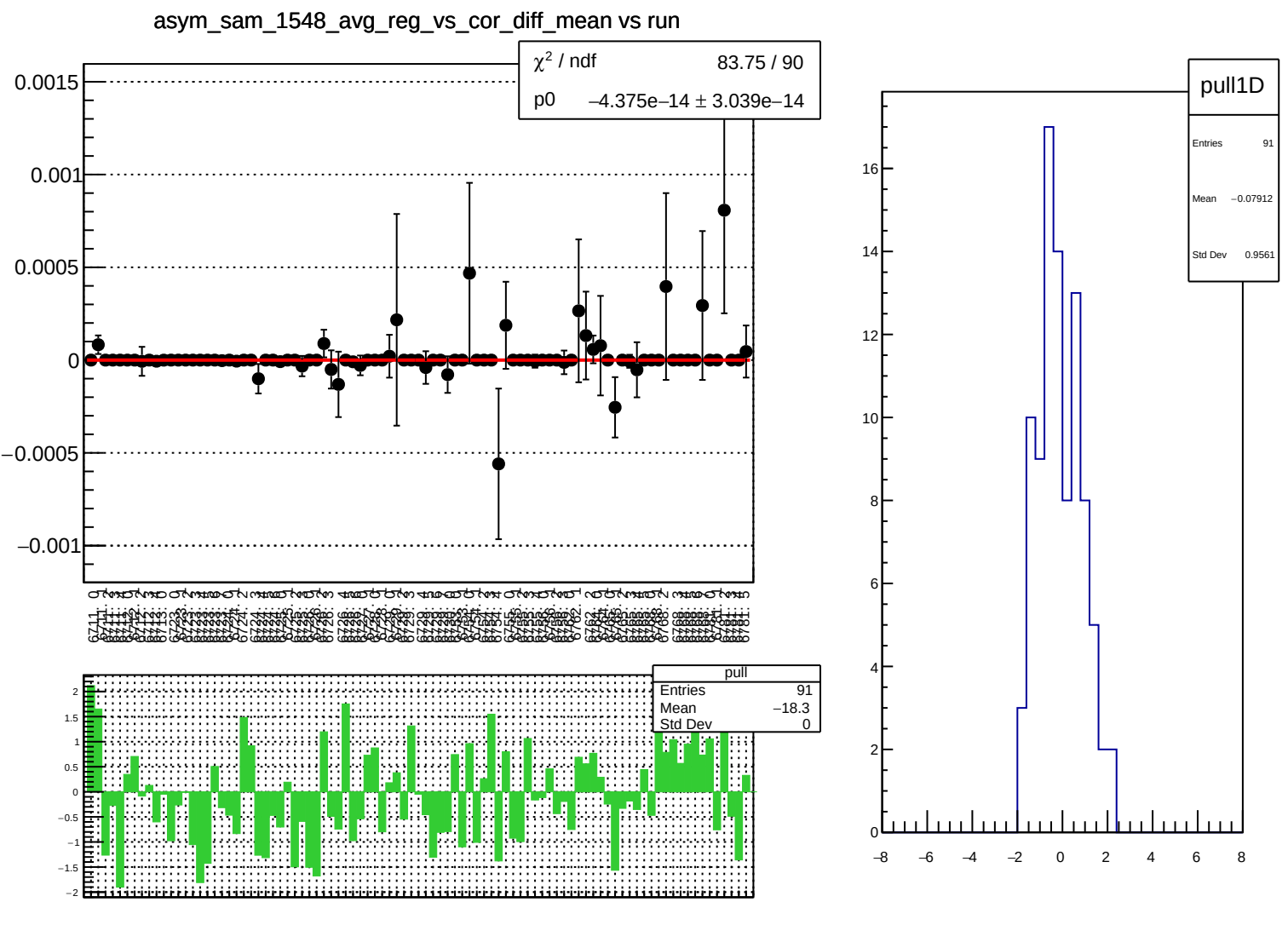

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.49 / 90
p0 −321.2 ± 671.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean −250.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.005956
Std Dev 1.024
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

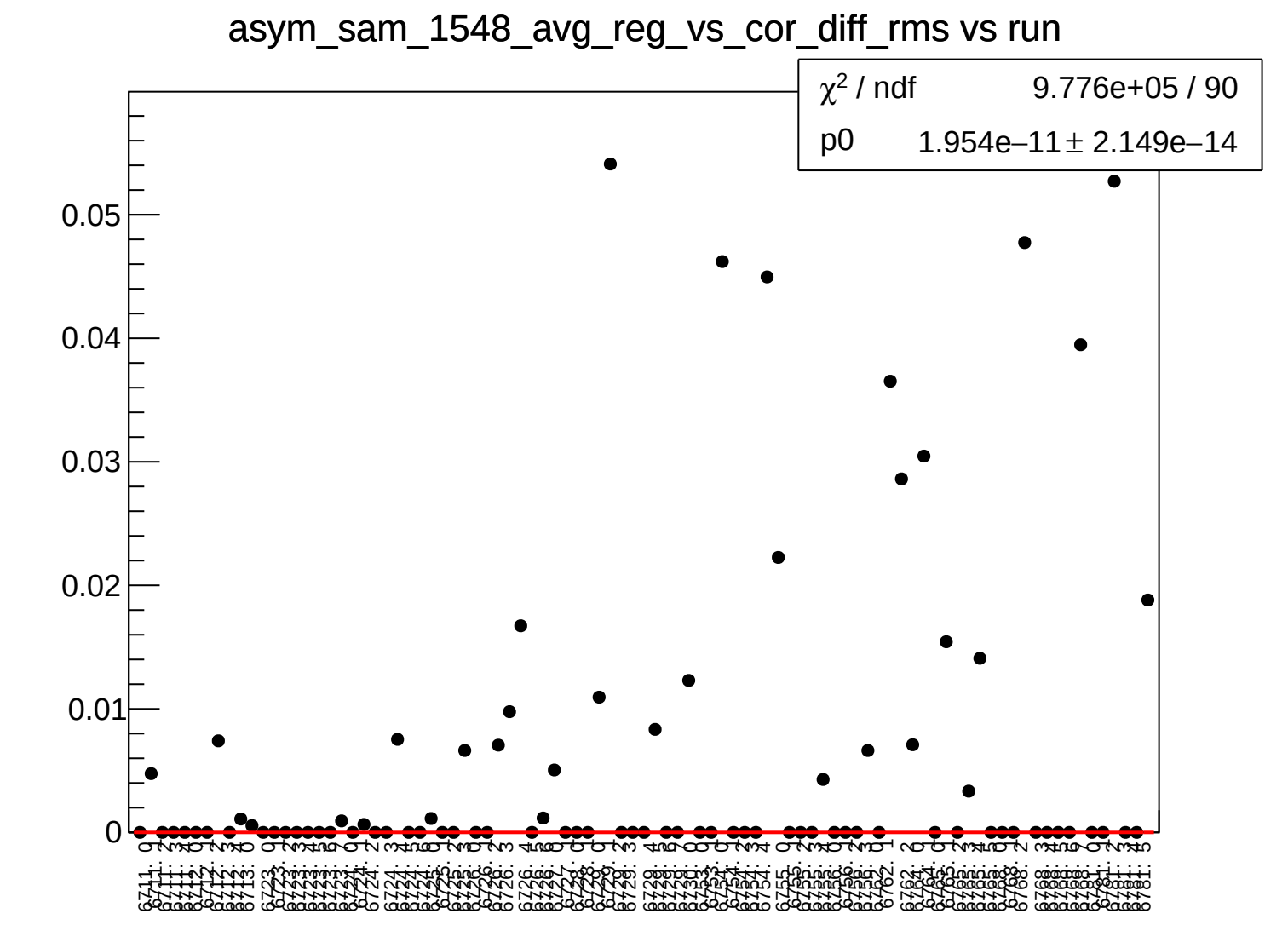

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.519e+04 / 90
p0 627.8 ± 0.4747
1300
1200
1100
1000
900
800
700
600
500

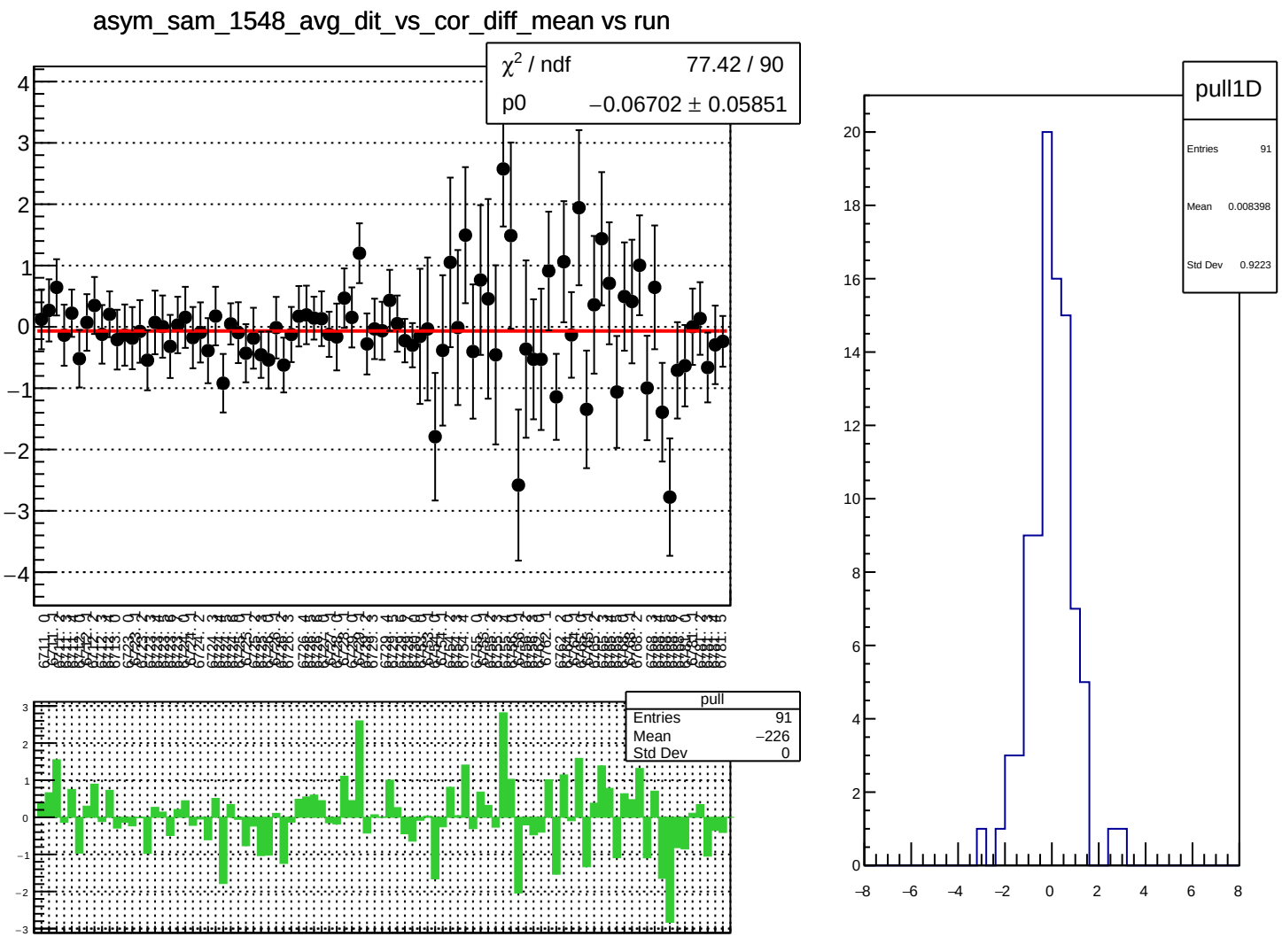

asym_sam_1548_avg_mean vs run
χ² / ndf 102.1 / 90
p0 227.9 ± 650.8
20000
10000
0
−10000
−20000
pull
Entries 91
Mean −345.8
Std Dev 0
2
1
0
−1
−2

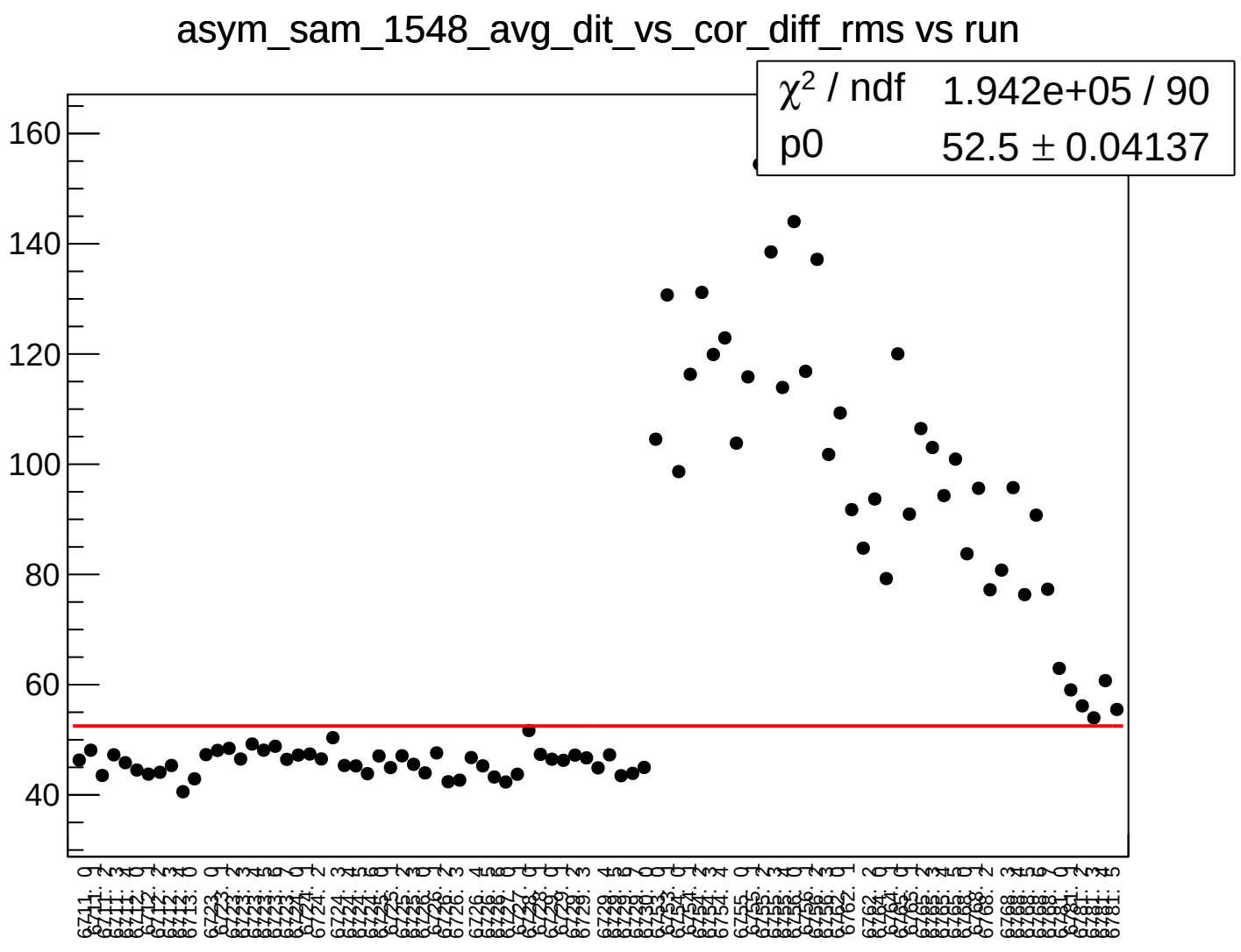

pull1D
Entries 91
Mean −0.004243
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

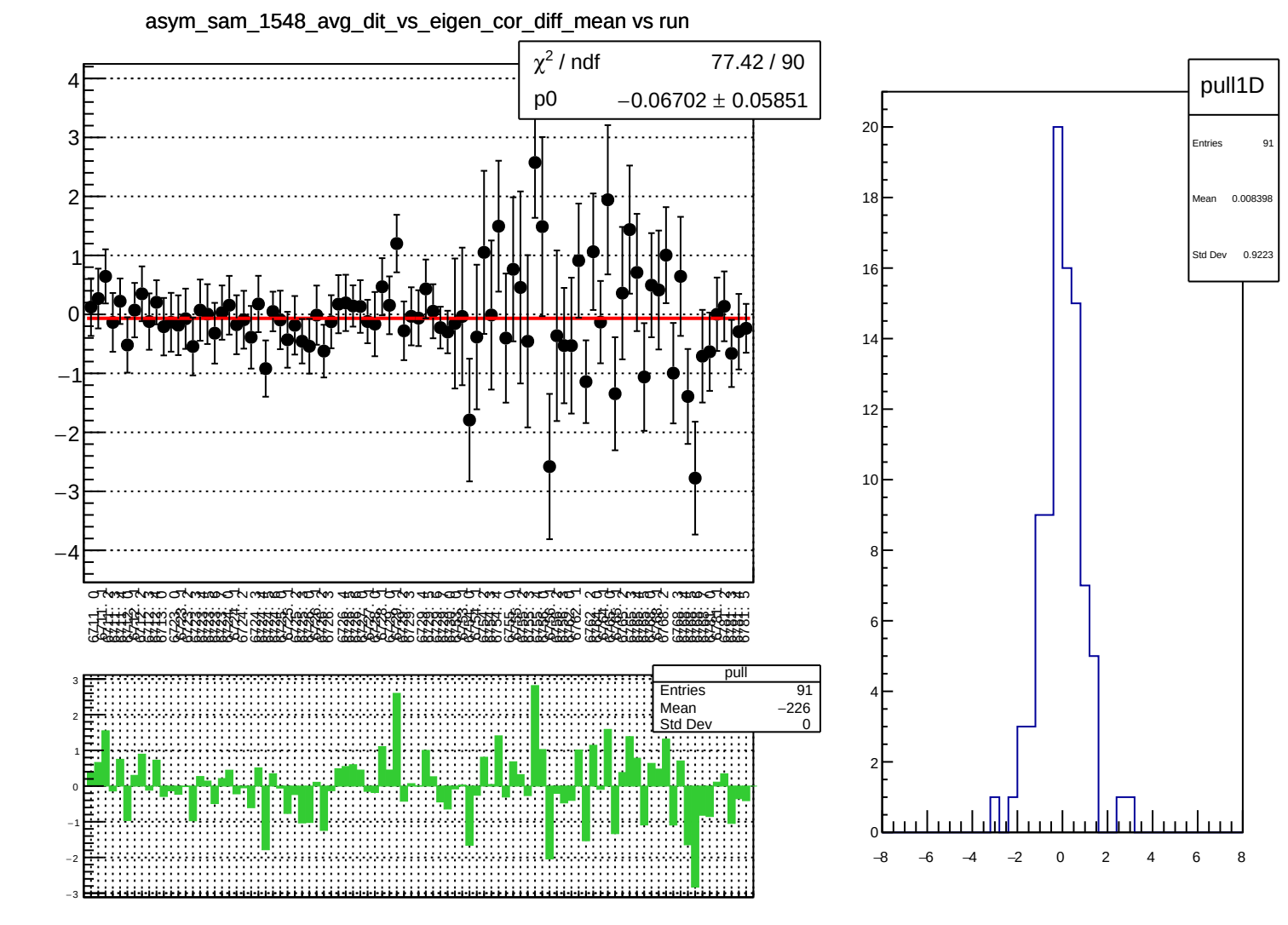

asym_sam_1548_avg_rms vs run
χ² / ndf 3.472e+04 / 90
p0 612.2 ± 0.4602
1200
1100
1000
900
800
700
600
500

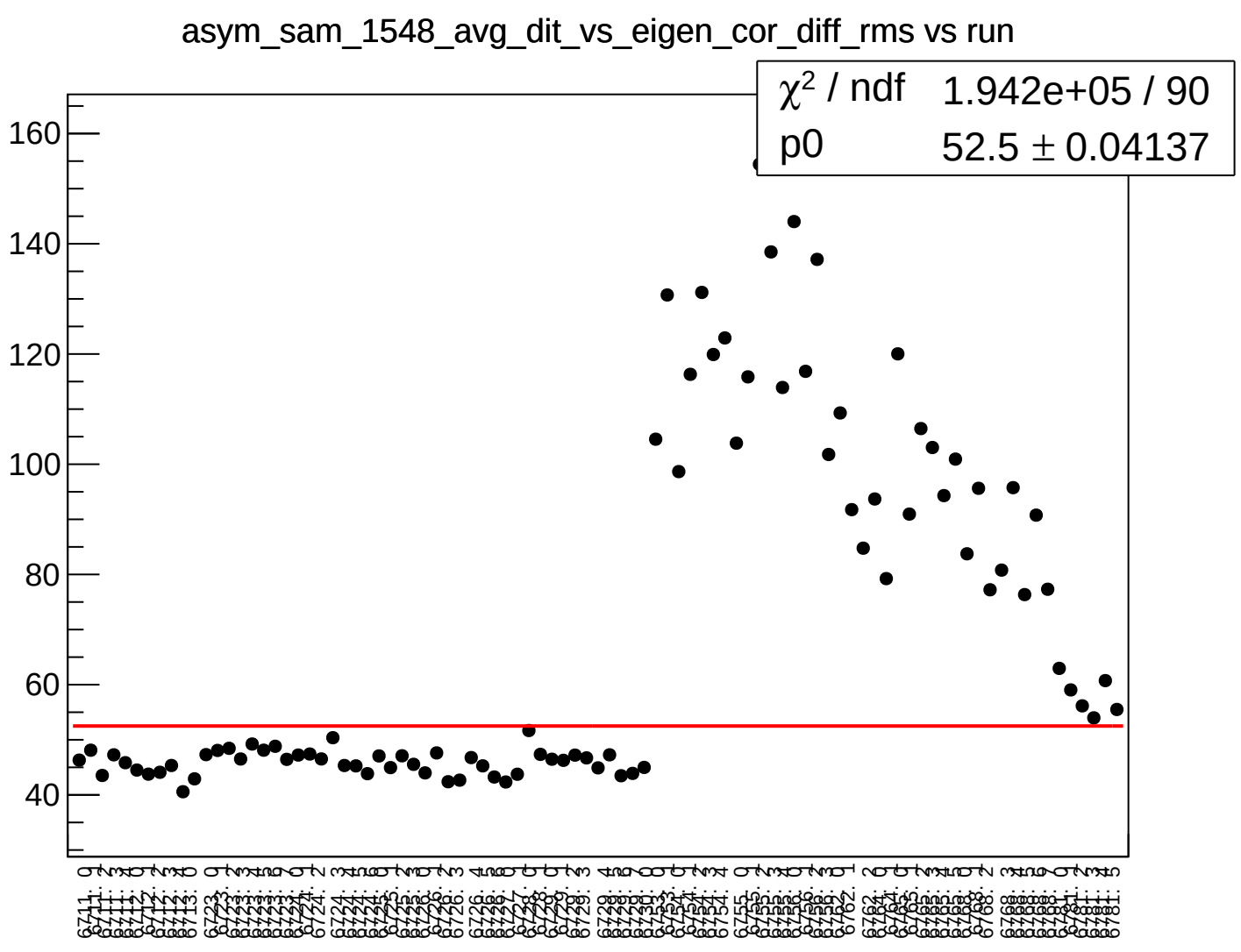

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.75 / 90
p0 −4.375e−14 ± 3.039e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 91
Mean −18.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean −0.07912
Std Dev 0.9561
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

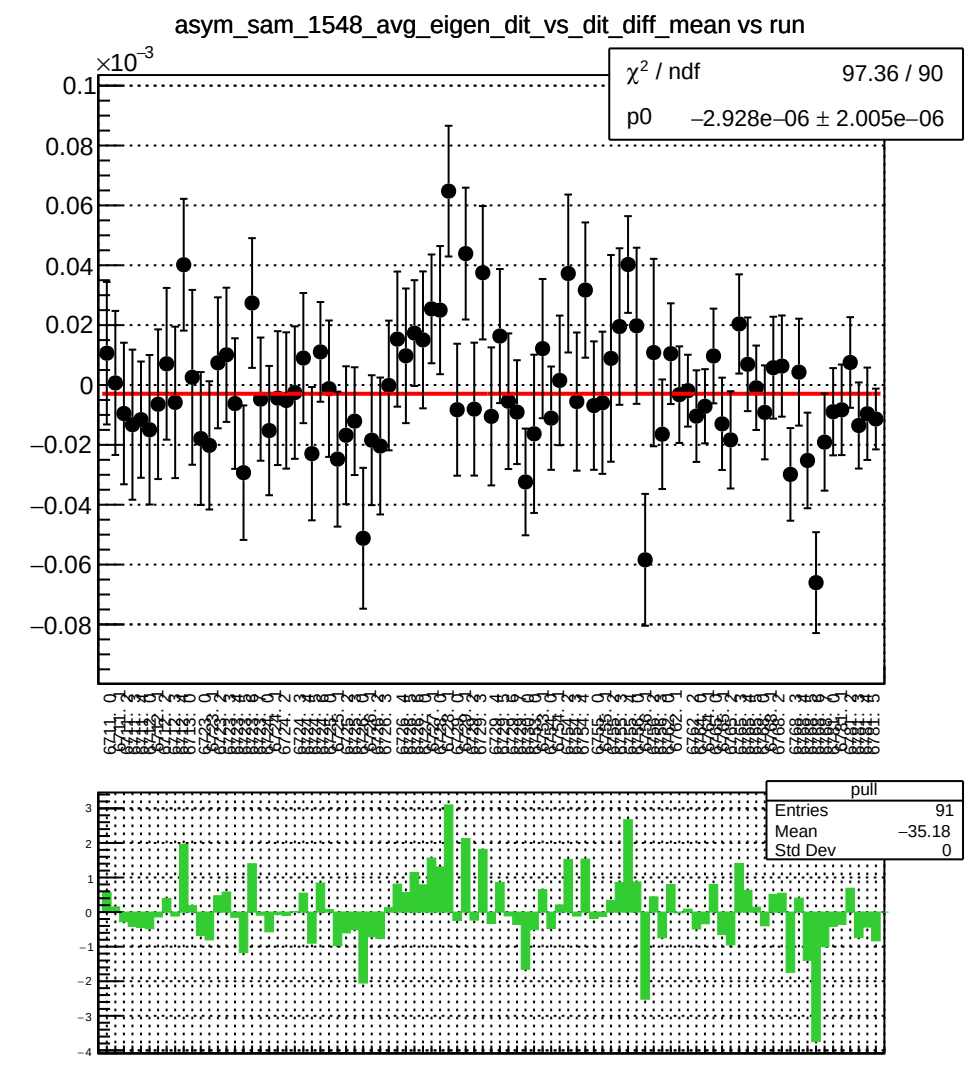

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.776e+05 / 90
p0 1.954e−11 ± 2.149e−14
0.05
0.04
0.03
0.02
0.01
0

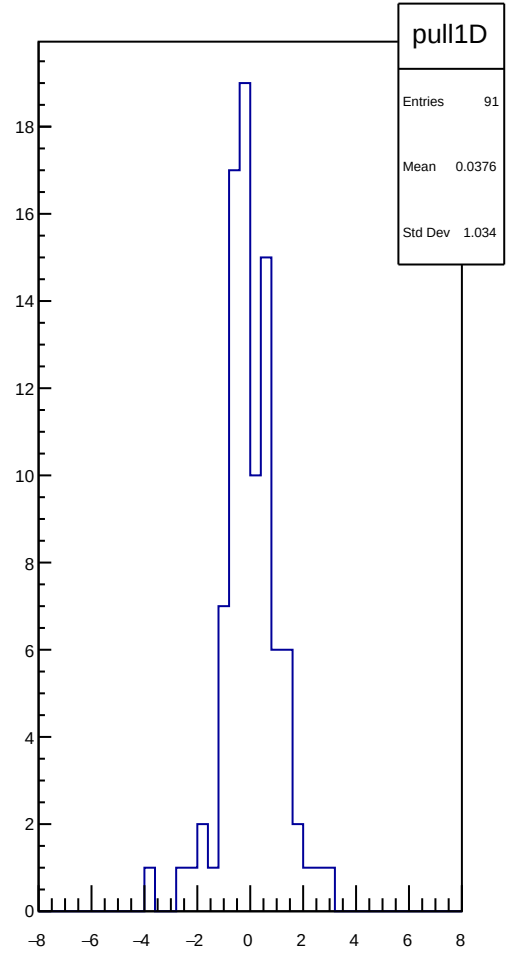

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.42 / 90
p0 −0.06702 ± 0.05851
pull
Entries 91
Mean −226
Std Dev 0
pull1D
Entries 91
Mean 0.008398
Std Dev 0.9223

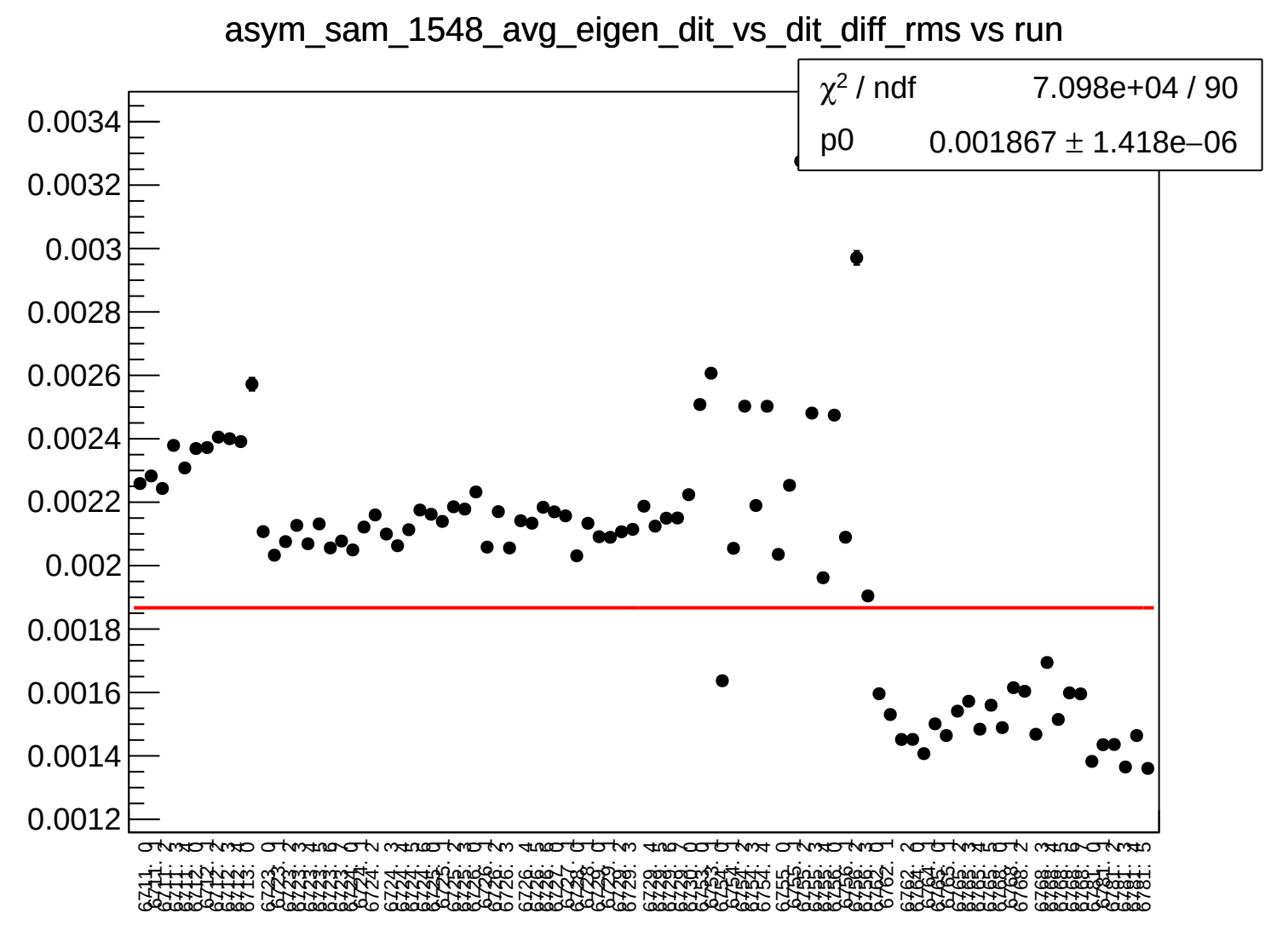

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.942e+05 / 90
p0 52.5 ± 0.04137
160
140
120
100
80
60
40

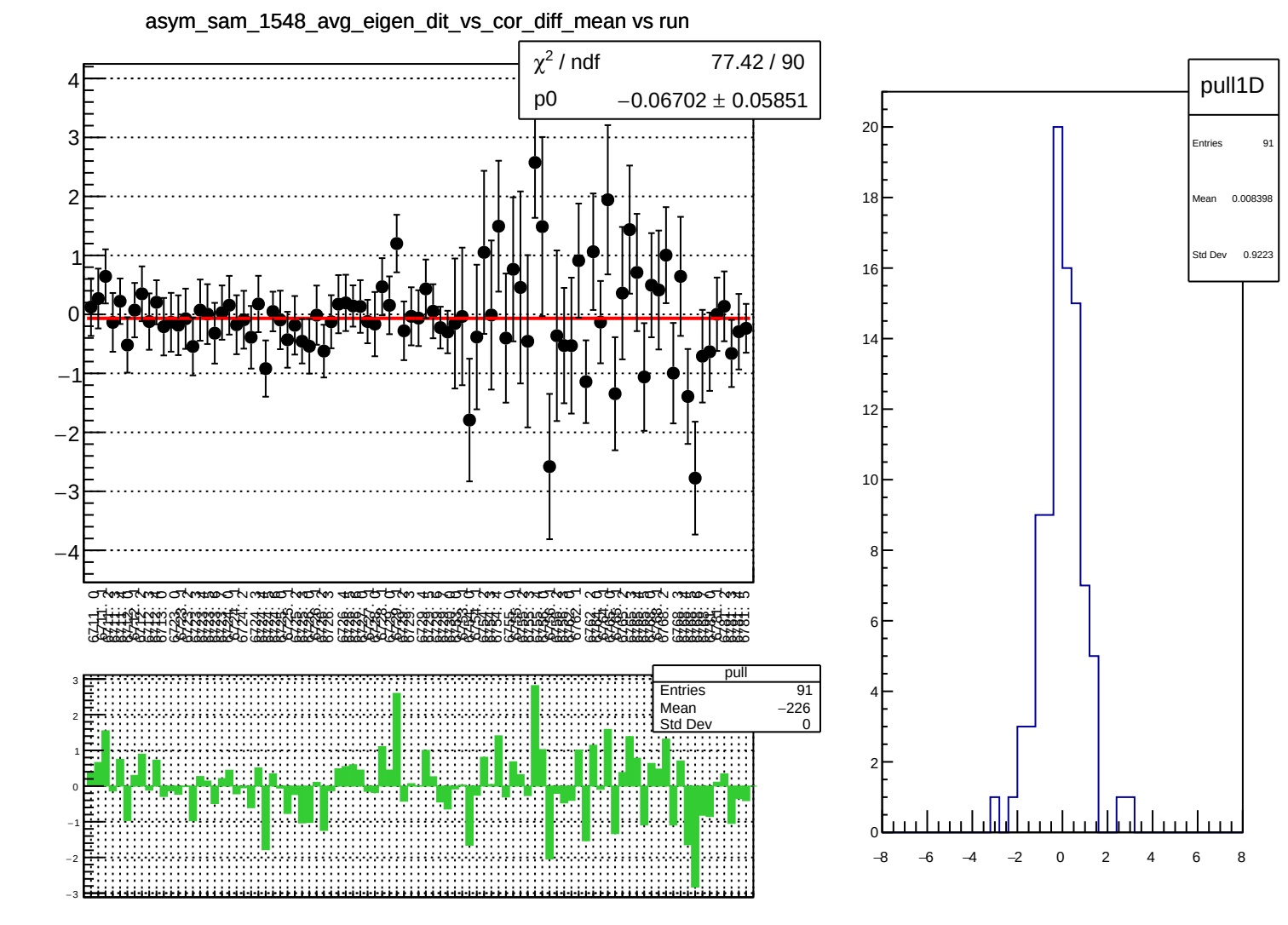

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.42 / 90
p0 −0.06702 ± 0.05851
pull
Entries 91
Mean −226
Std Dev 0
pull1D
Entries 91
Mean 0.008398
Std Dev 0.9223

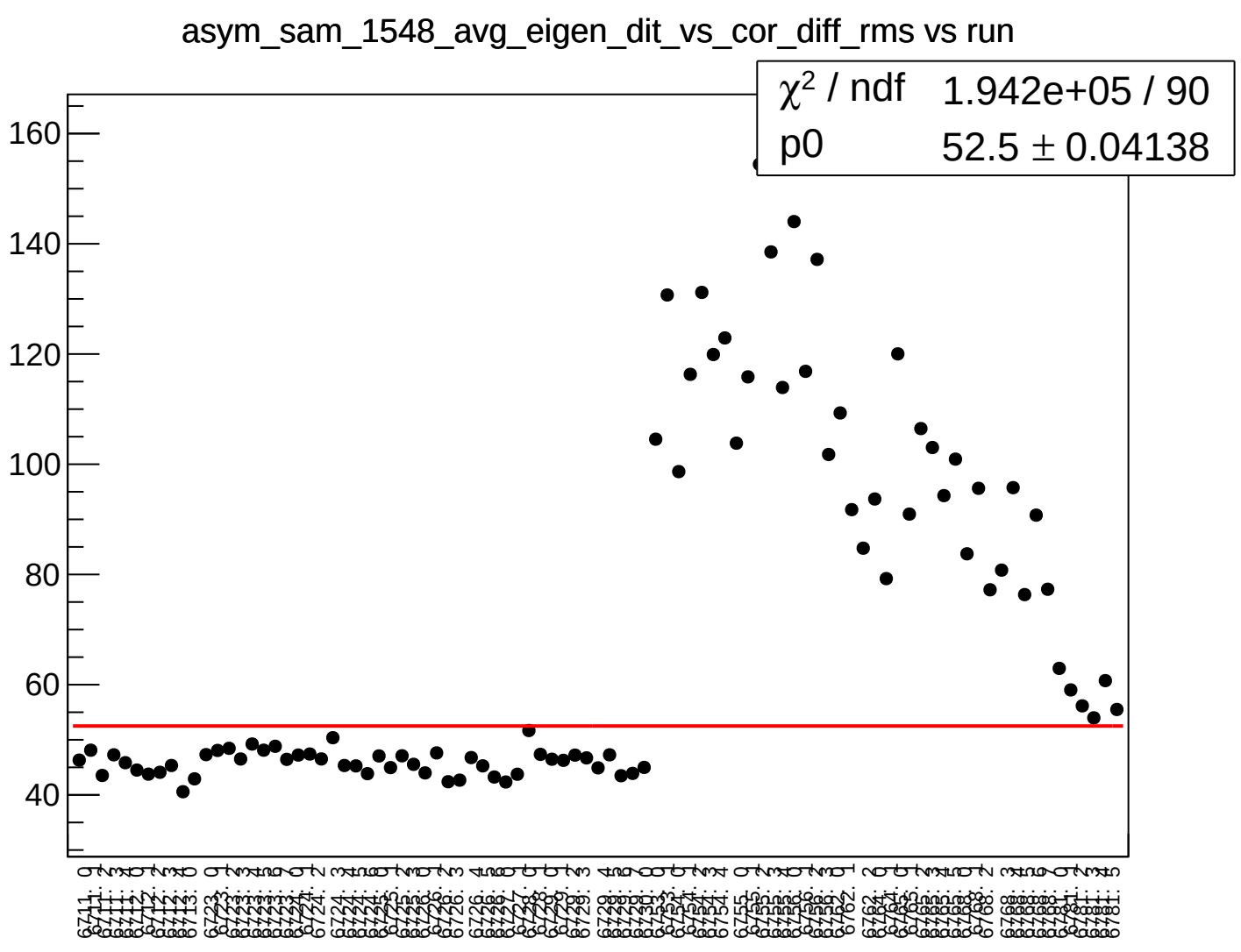

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.942e+05 / 90
p0 52.5 ± 0.04137
160
140
120
100
80
60
40

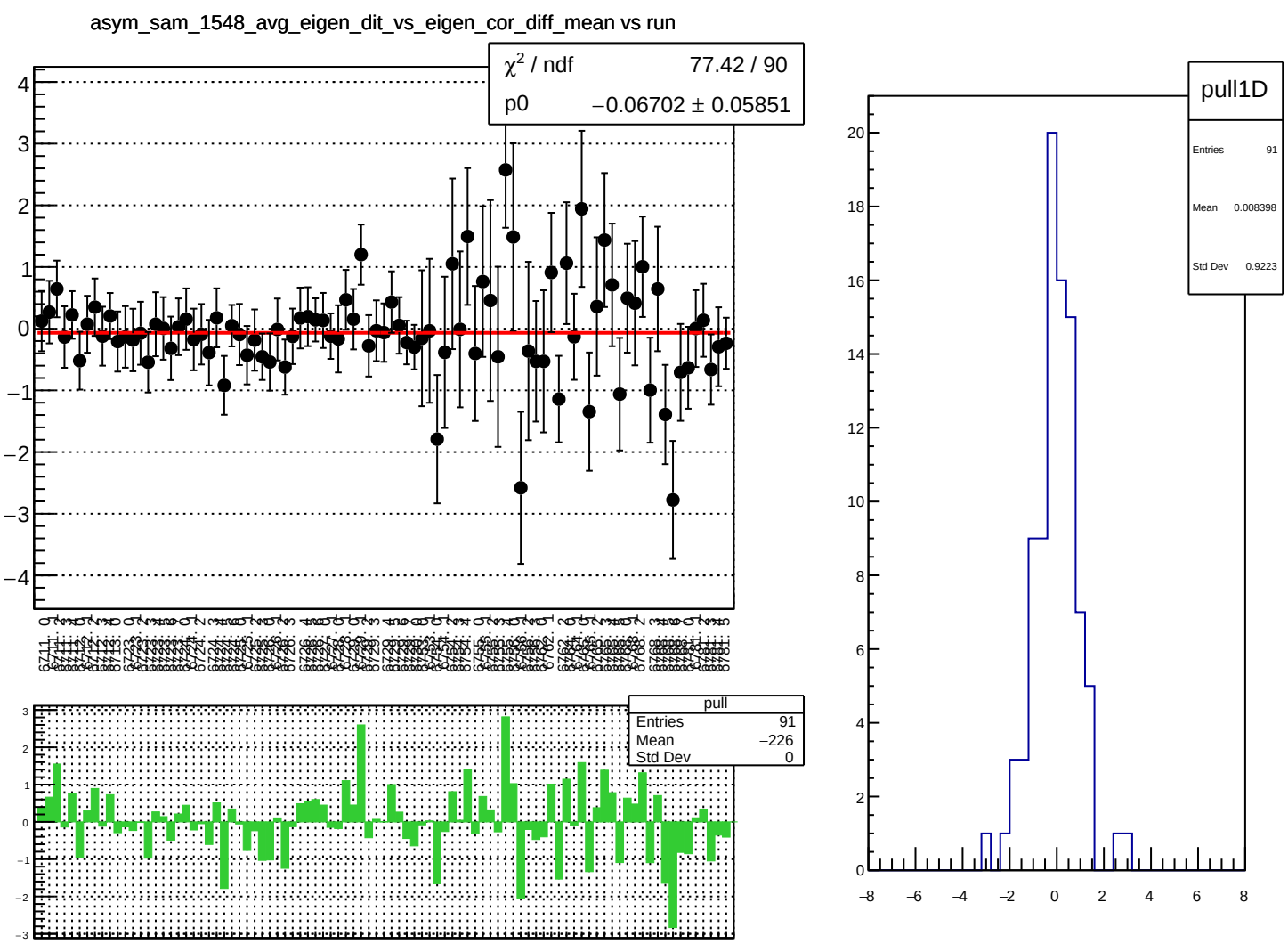

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.36 / 90
p0 −2.928e−06 ± 2.005e−06
pull
Entries 91
Mean −35.18
Std Dev 0

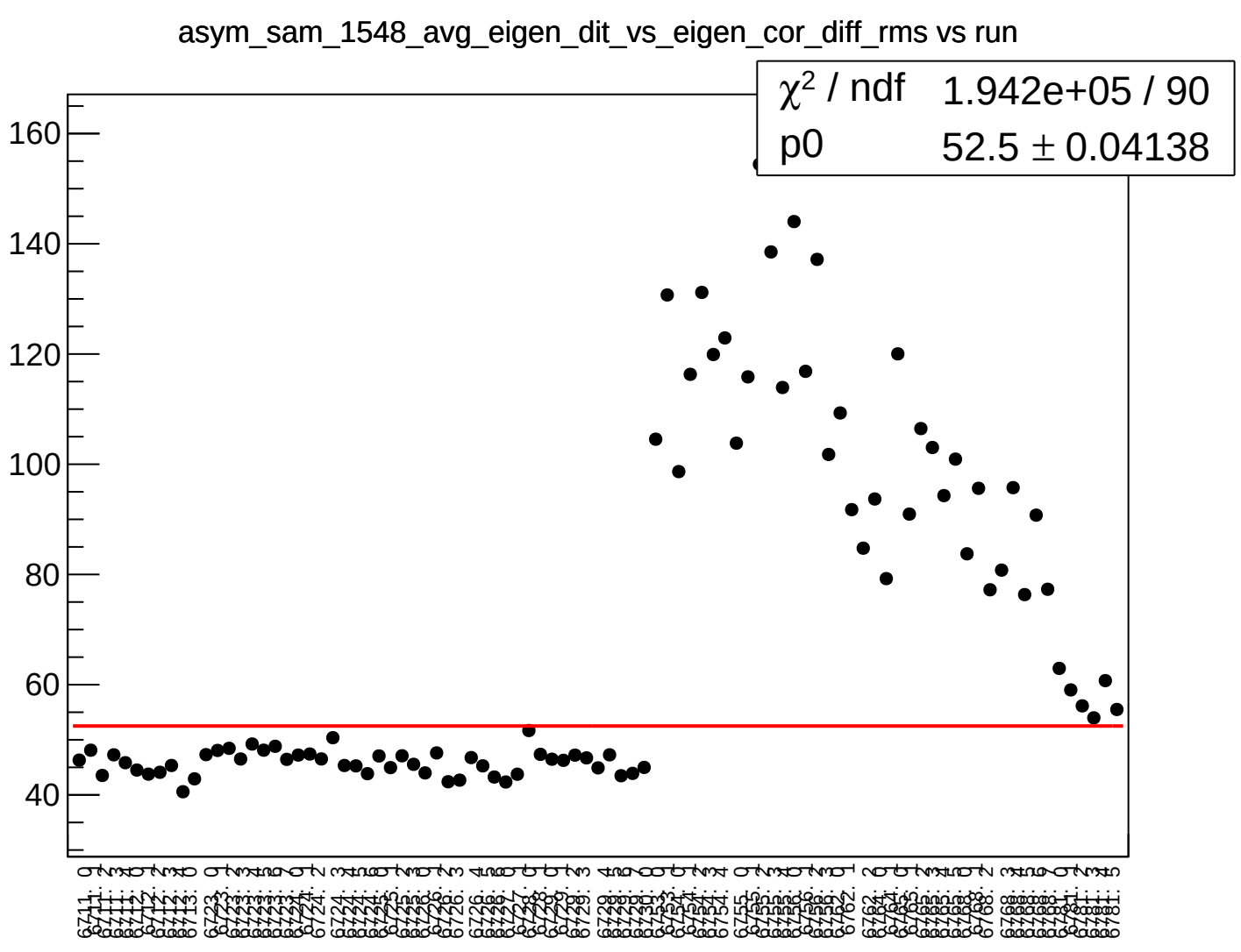

pull1D
Entries 91
Mean 0.0376
Std Dev 1.034

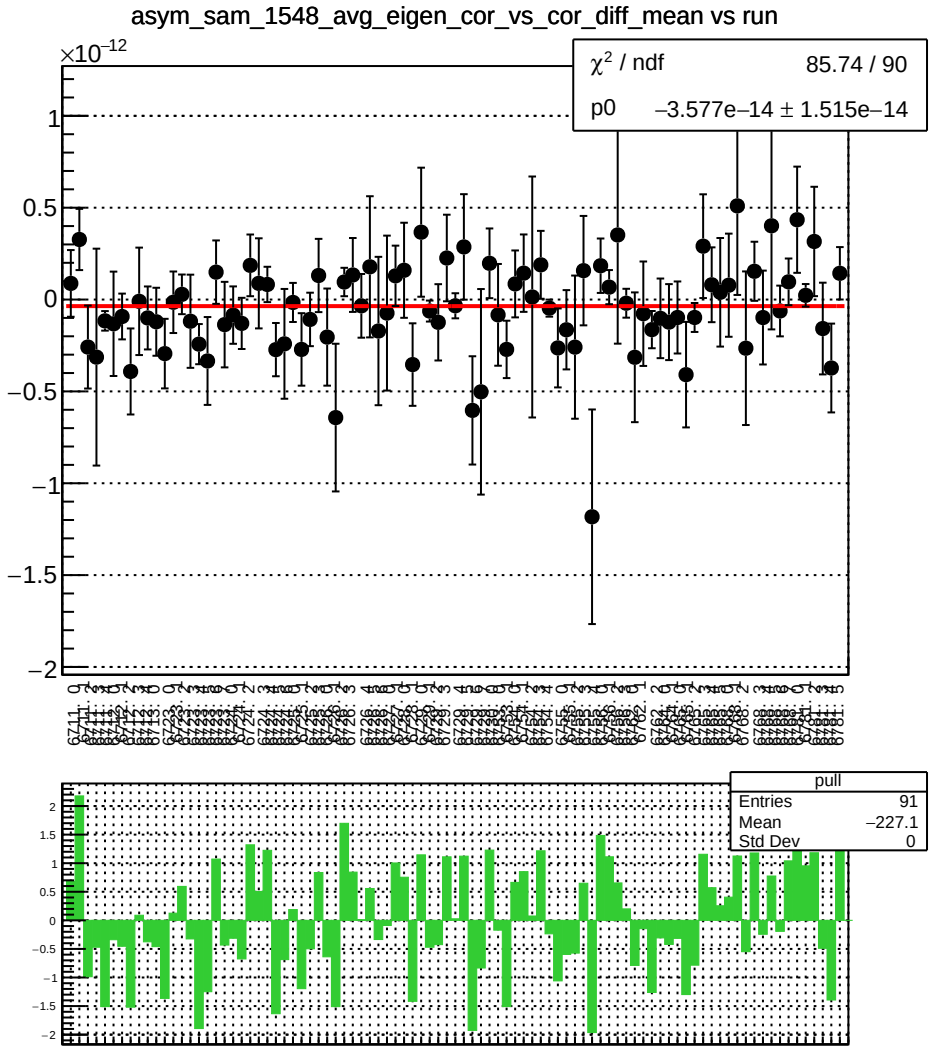

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.098e+04 / 90
p0 0.001867 ± 1.418e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

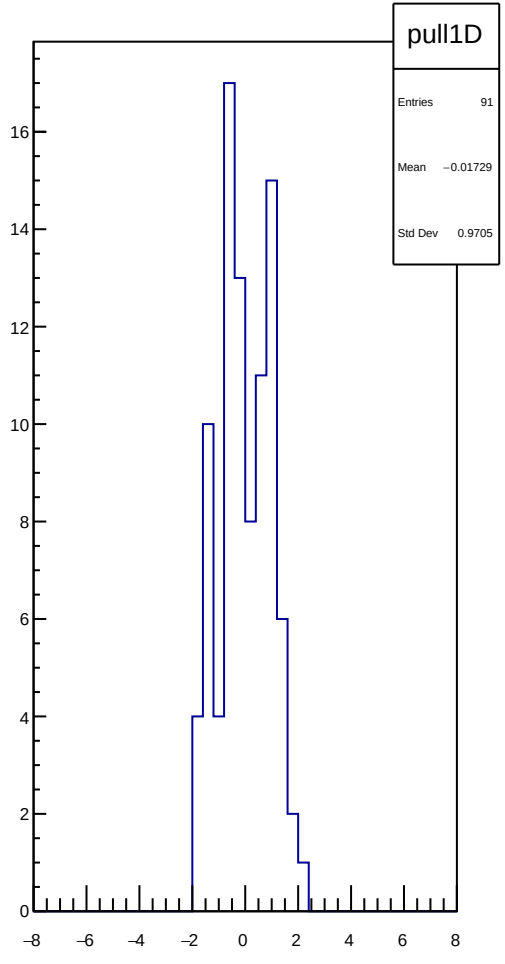

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.42 / 90
p0 −0.06702 ± 0.05851
pull
Entries 91
Mean −226
Std Dev 0
pull1D
Entries 91
Mean 0.008398
Std Dev 0.9223

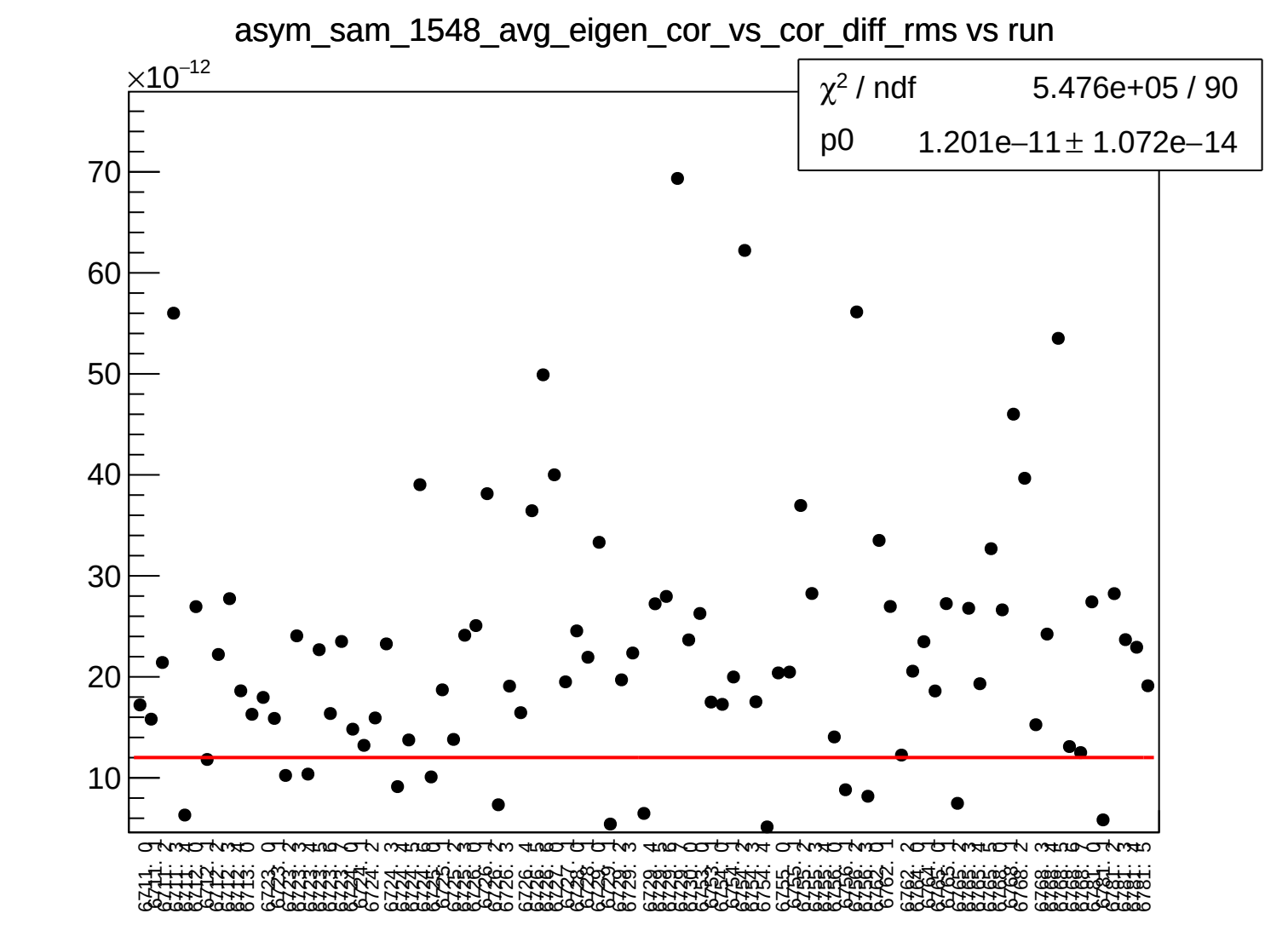

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.942e+05 / 90
p0 52.5 ± 0.04138
160
140
120
100
80
60
40

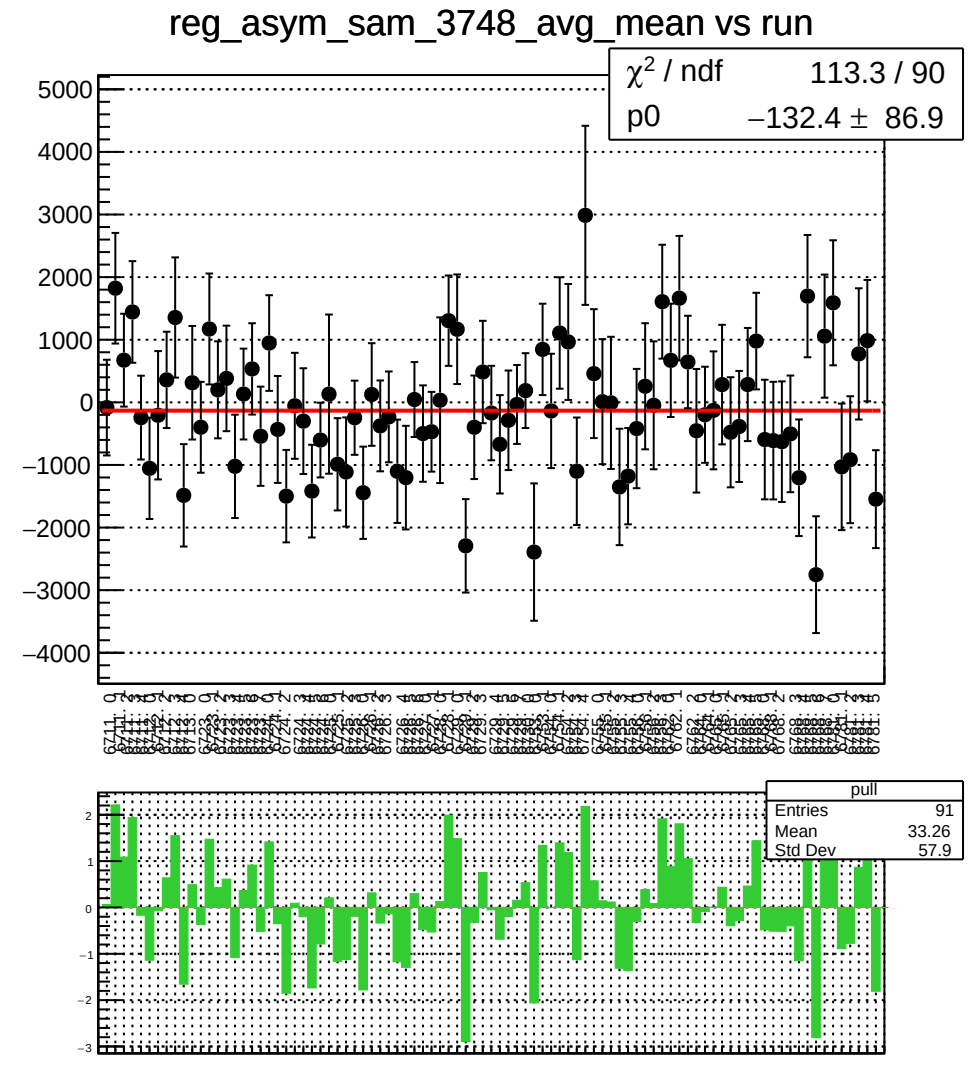

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.42 / 90
p0 −0.06702 ± 0.05851
pull
Entries 91
Mean −226
Std Dev 0
pull1D
Entries 91
Mean 0.008398
Std Dev 0.9223

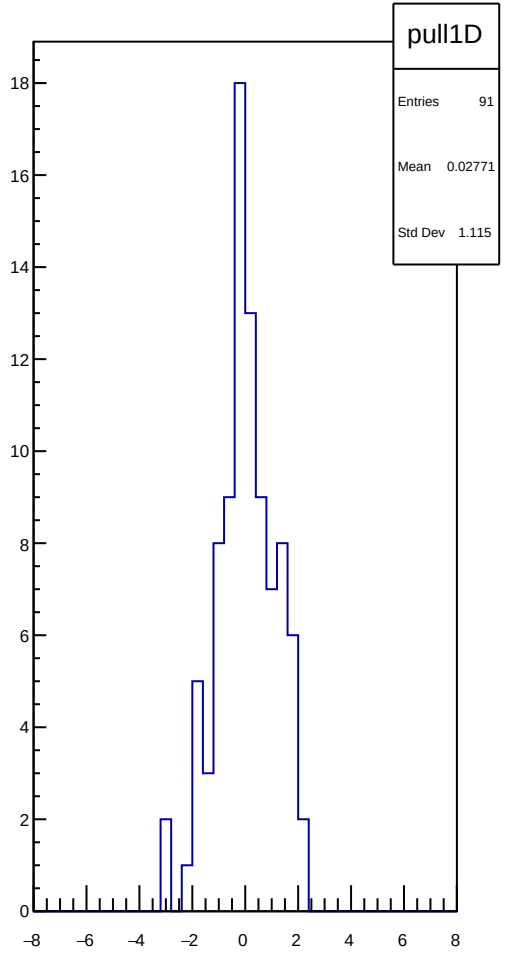

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.942e+05 / 90
p0 52.5 ± 0.04138
160
140
120
100
80
60
40

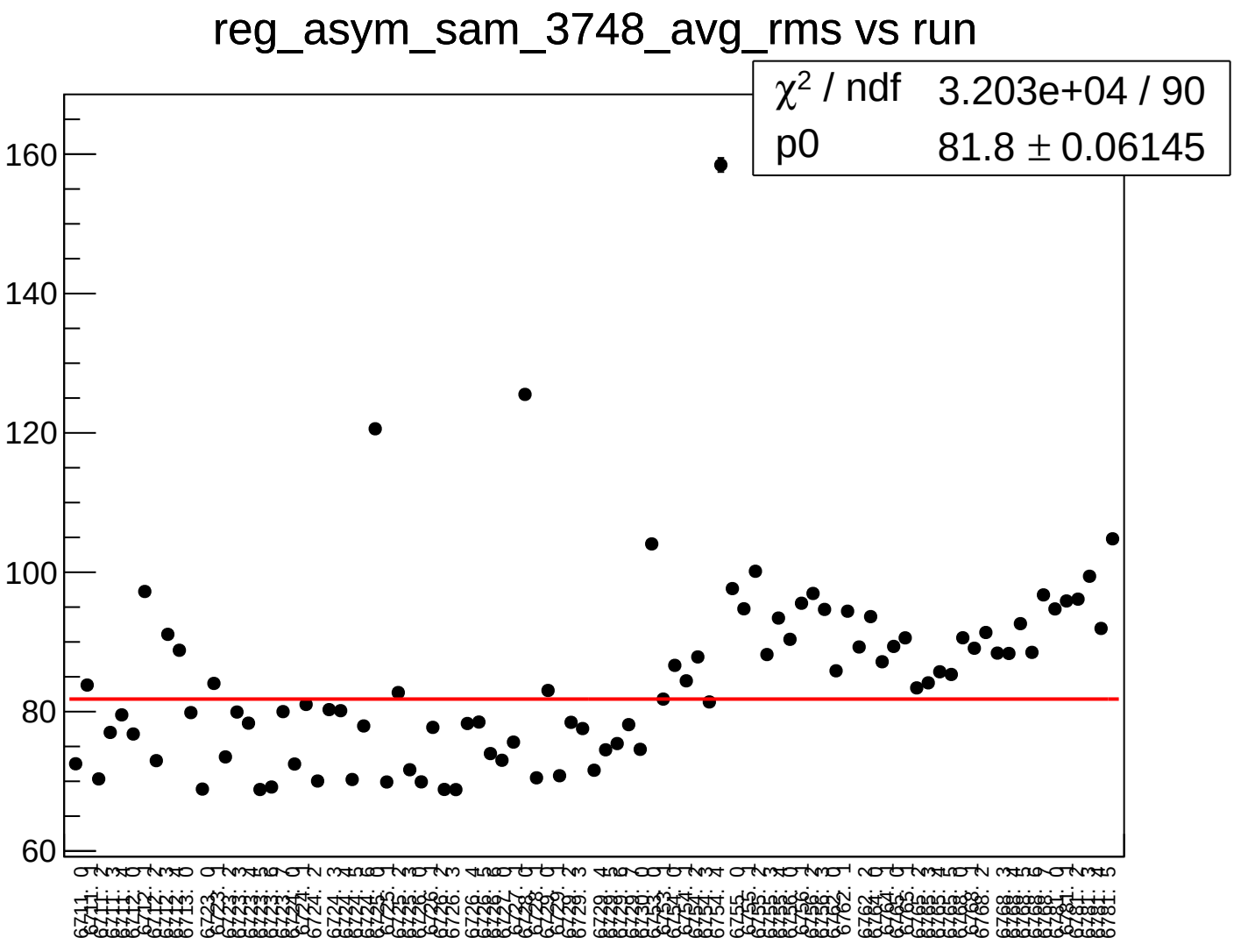

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.74 / 90
p0 −3.577e−14 ± 1.515e−14
pull
Entries 91
Mean −227.1
Std Dev 0

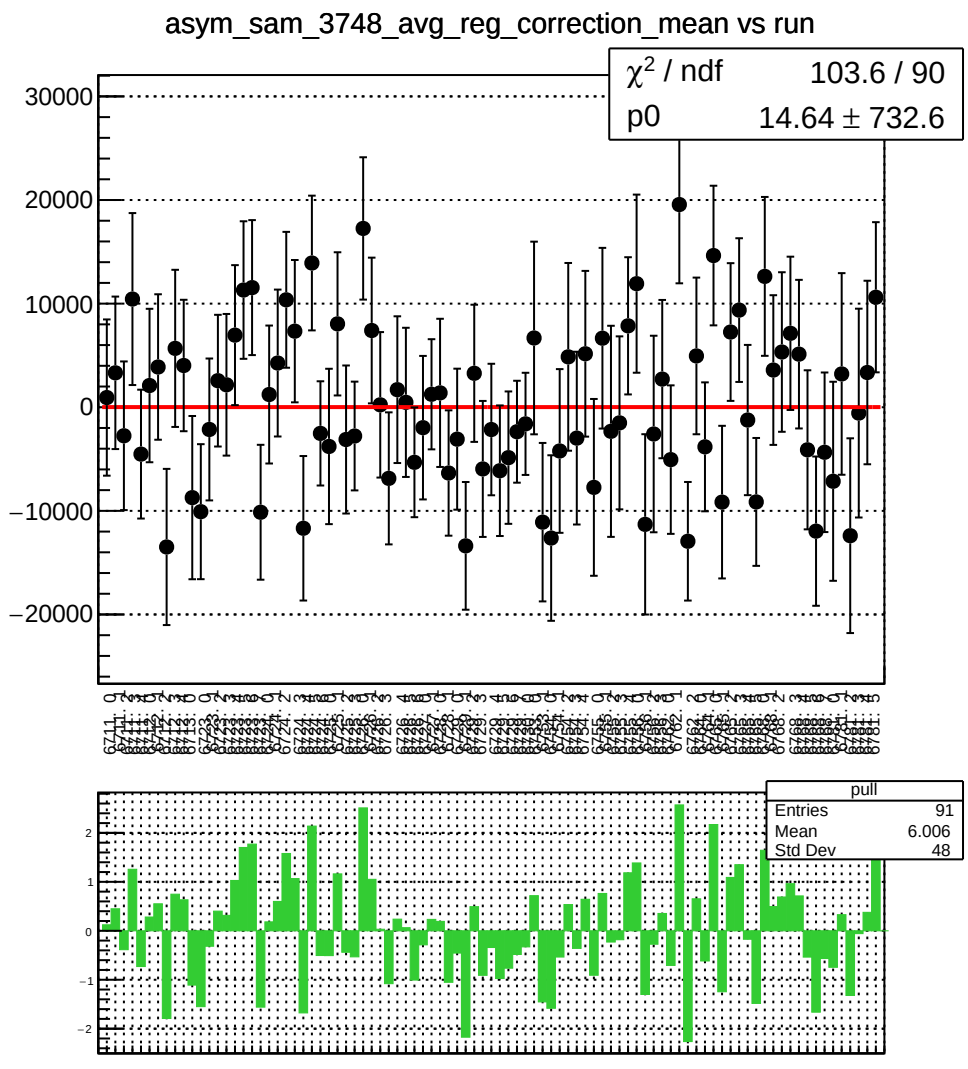

pull1D
Entries 91
Mean −0.01729
Std Dev 0.9705

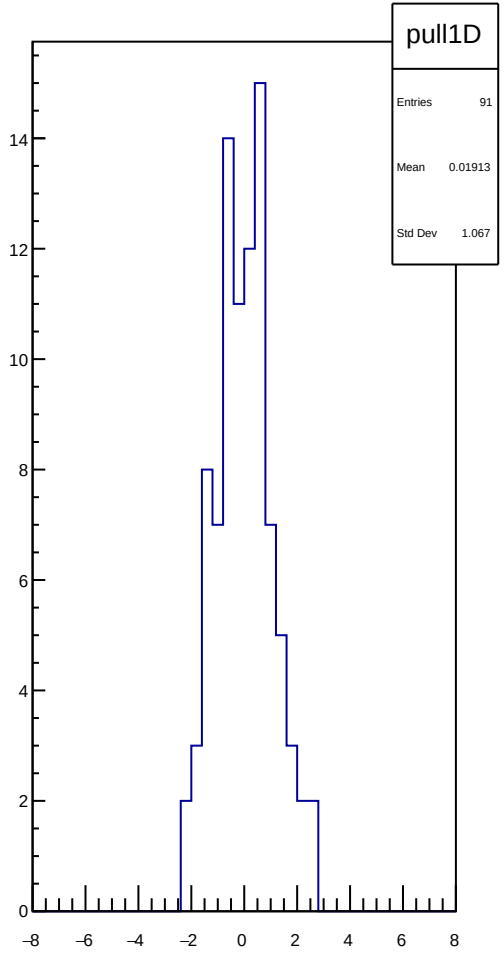

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.476e+05 / 90
p0 1.201e−11 ± 1.072e−14
70
60
50
40
30
20
10

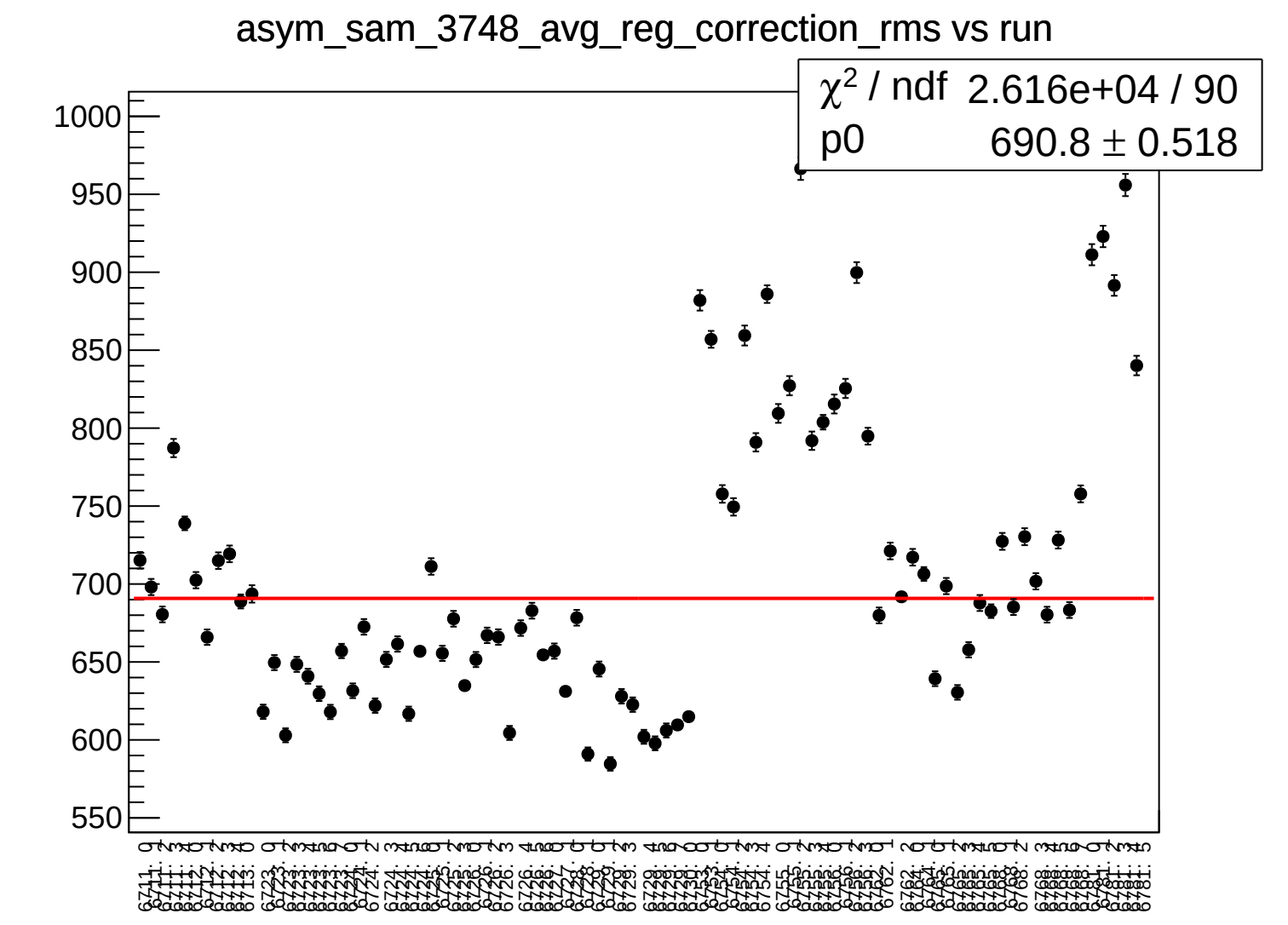

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 113.3 / 90
p0 −132.4 ± 86.9
pull
Entries 91
Mean 33.26
Std Dev 57.9

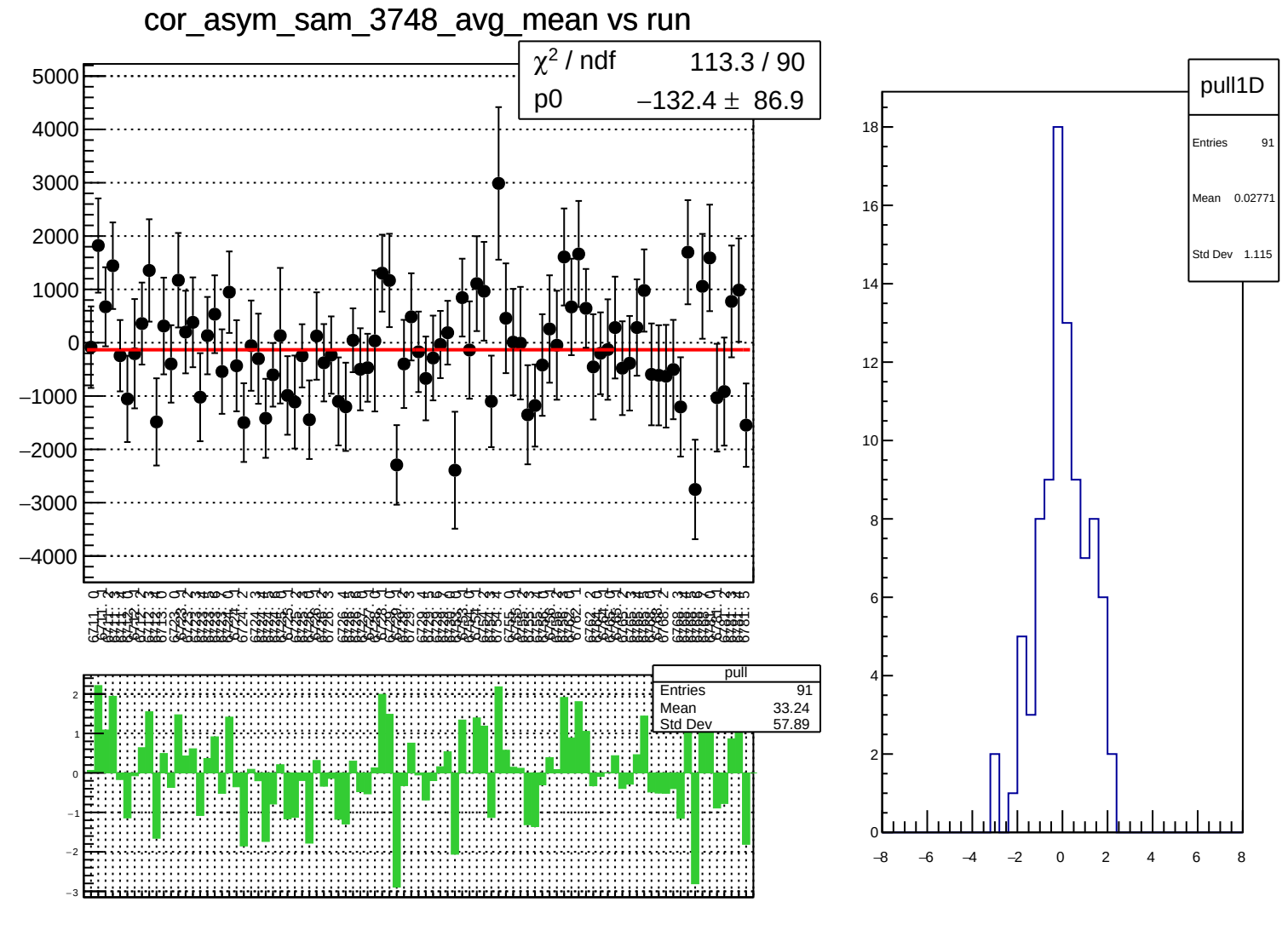

pull1D
Entries 91
Mean 0.02771
Std Dev 1.115

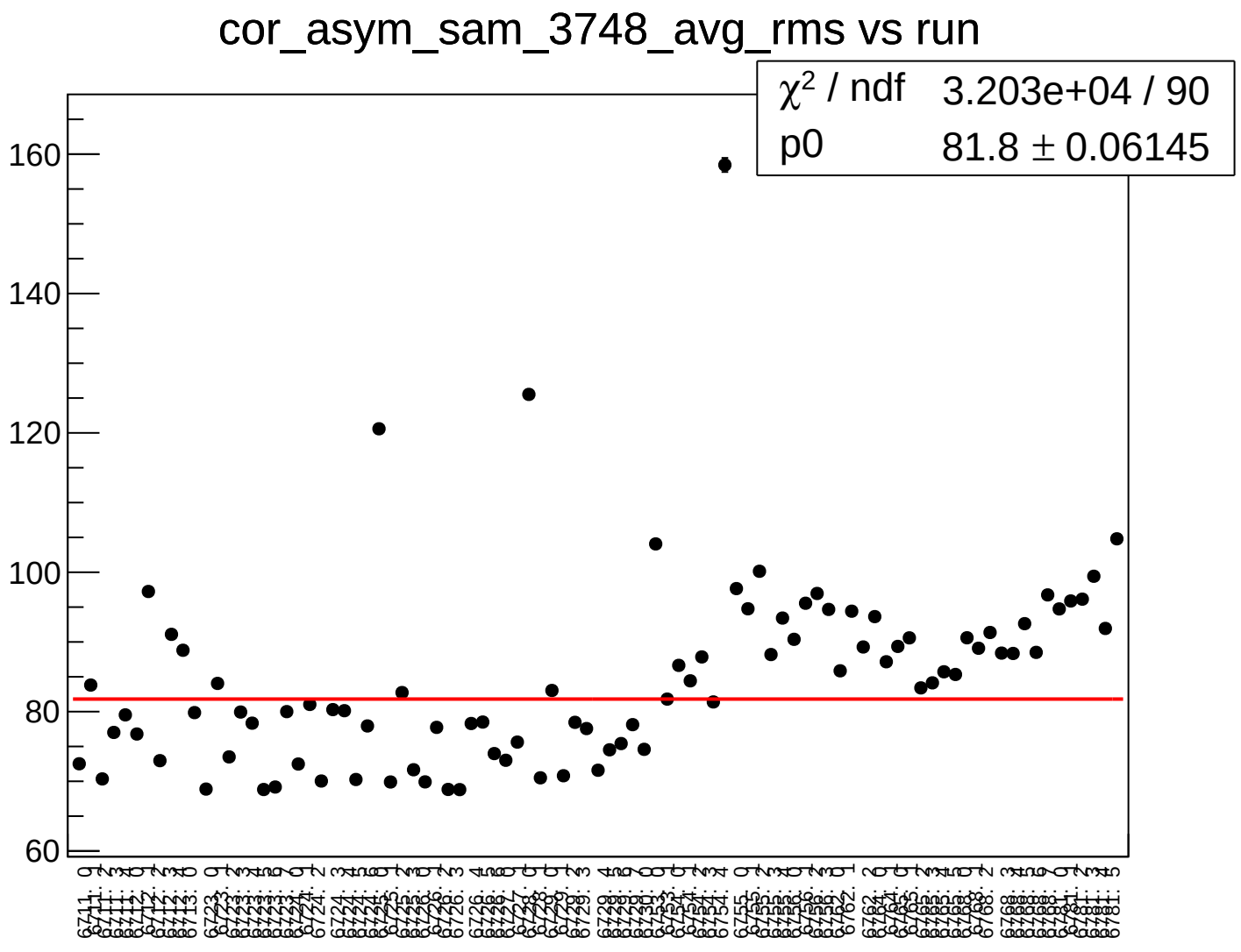

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 3.203e+04 / 90
p0 81.8 ± 0.06145
160
140
120
100
80
60

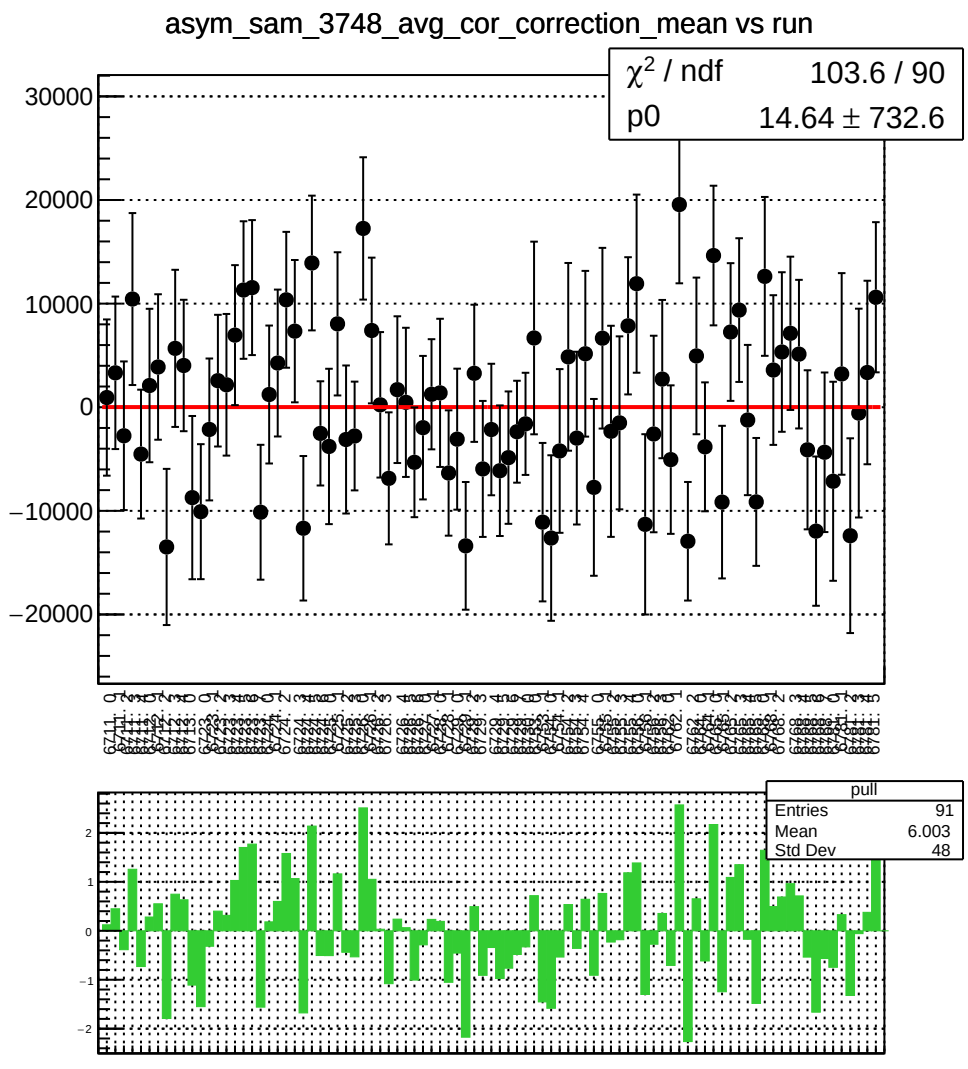

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 103.6 / 90
p0 14.64 ± 732.6
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 6.006
Std Dev 48
2
1
0
−1
−2

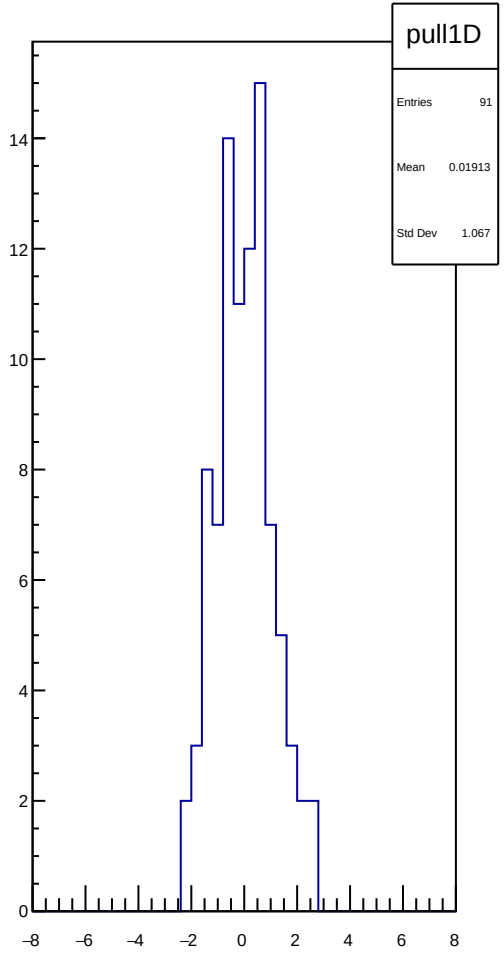

pull1D
Entries 91
Mean 0.01913
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

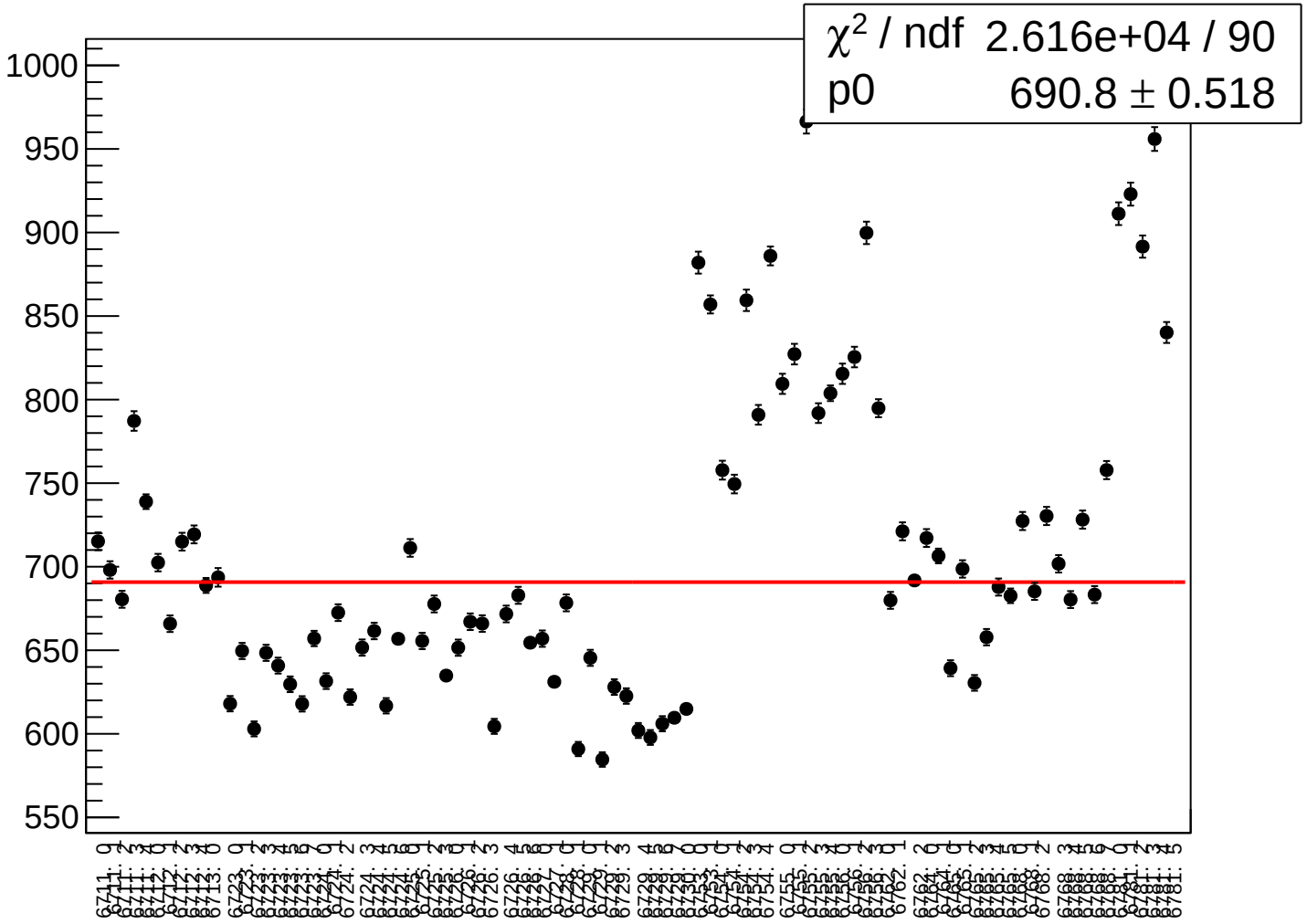

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 2.616e+04 / 90
p0 690.8 ± 0.518
1000
950
900
850
800
750
700
650
600
550

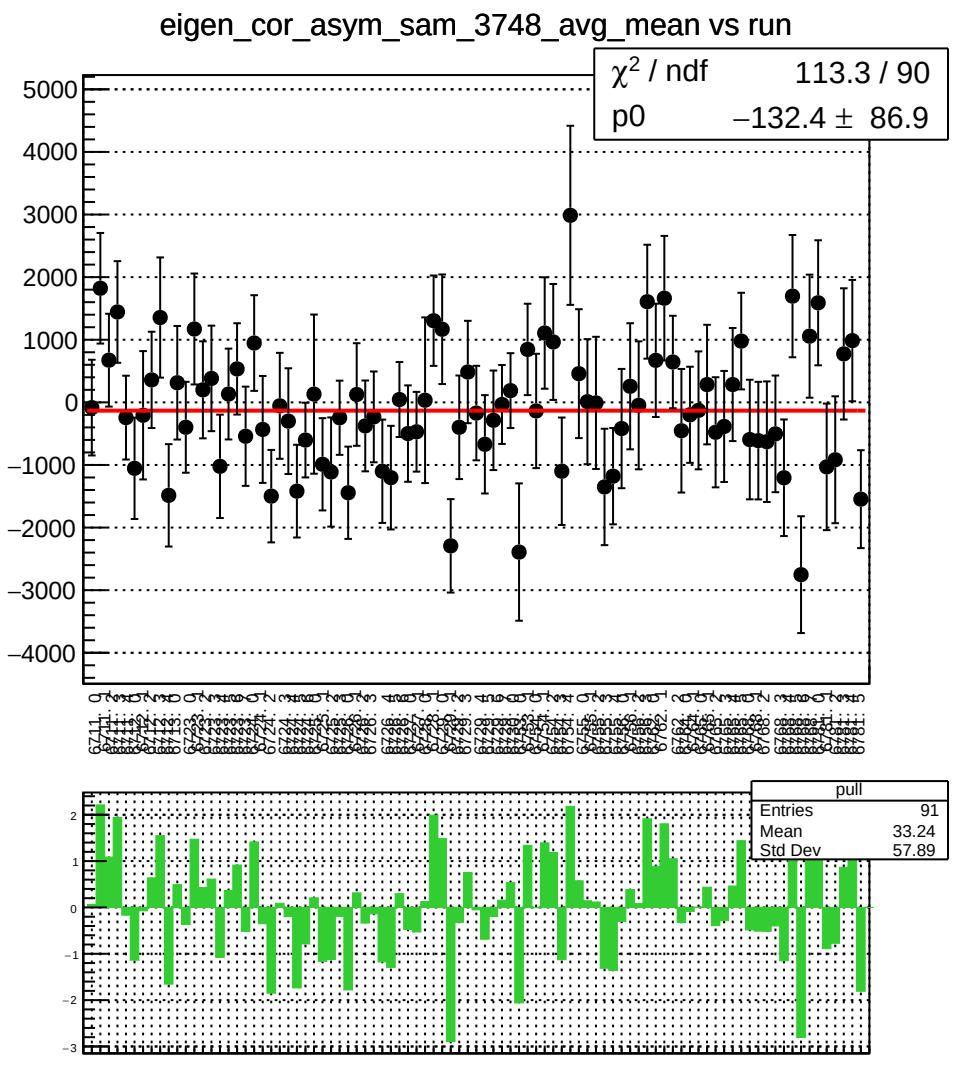

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 113.3 / 90
p0 −132.4 ± 86.9
pull
Entries 91
Mean 33.24
Std Dev 57.89
pull1D
Entries 91
Mean 0.02771
Std Dev 1.115

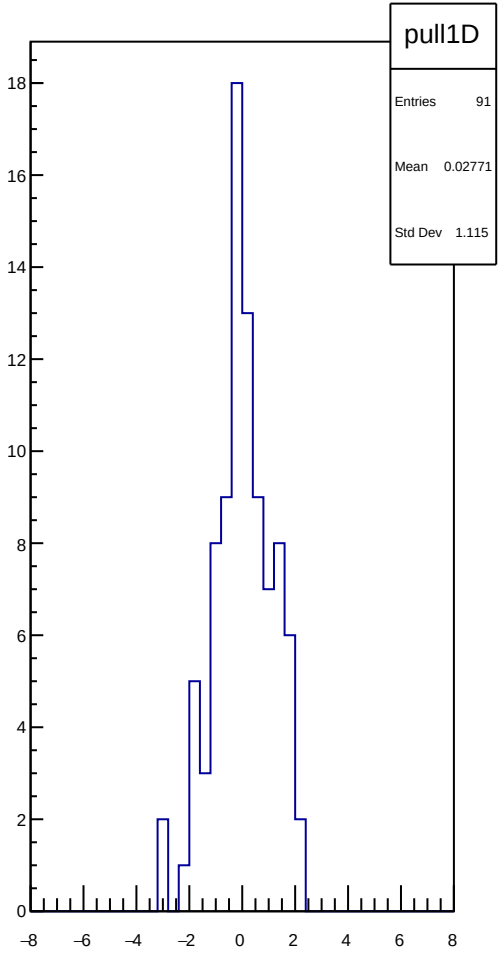

cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 3.203e+04 / 90
p0 81.8 ± 0.06145
160
140
120
100
80
60

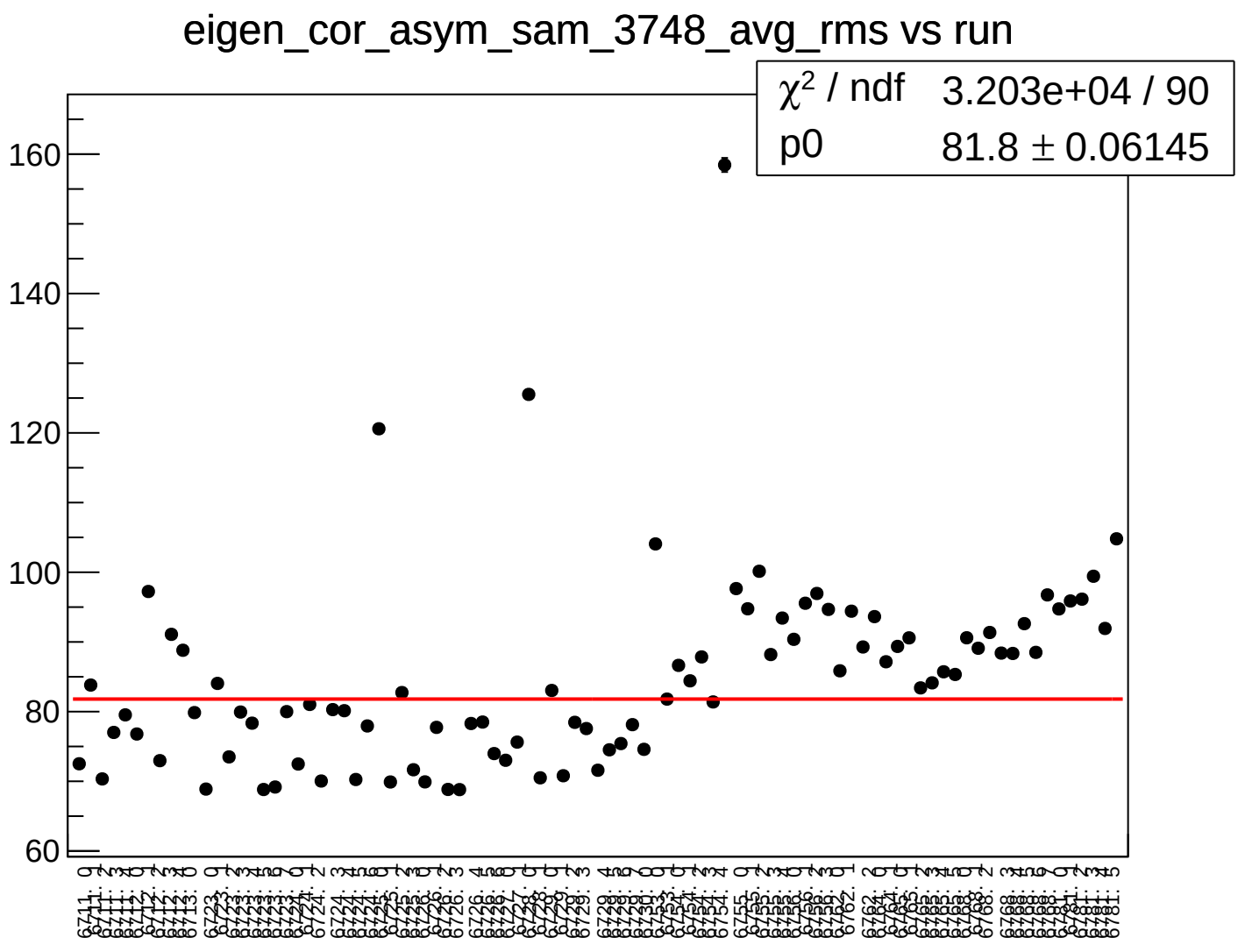

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 103.6 / 90
p0 14.64 ± 732.6
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 6.003
Std Dev 48
2
1
0
−1
−2

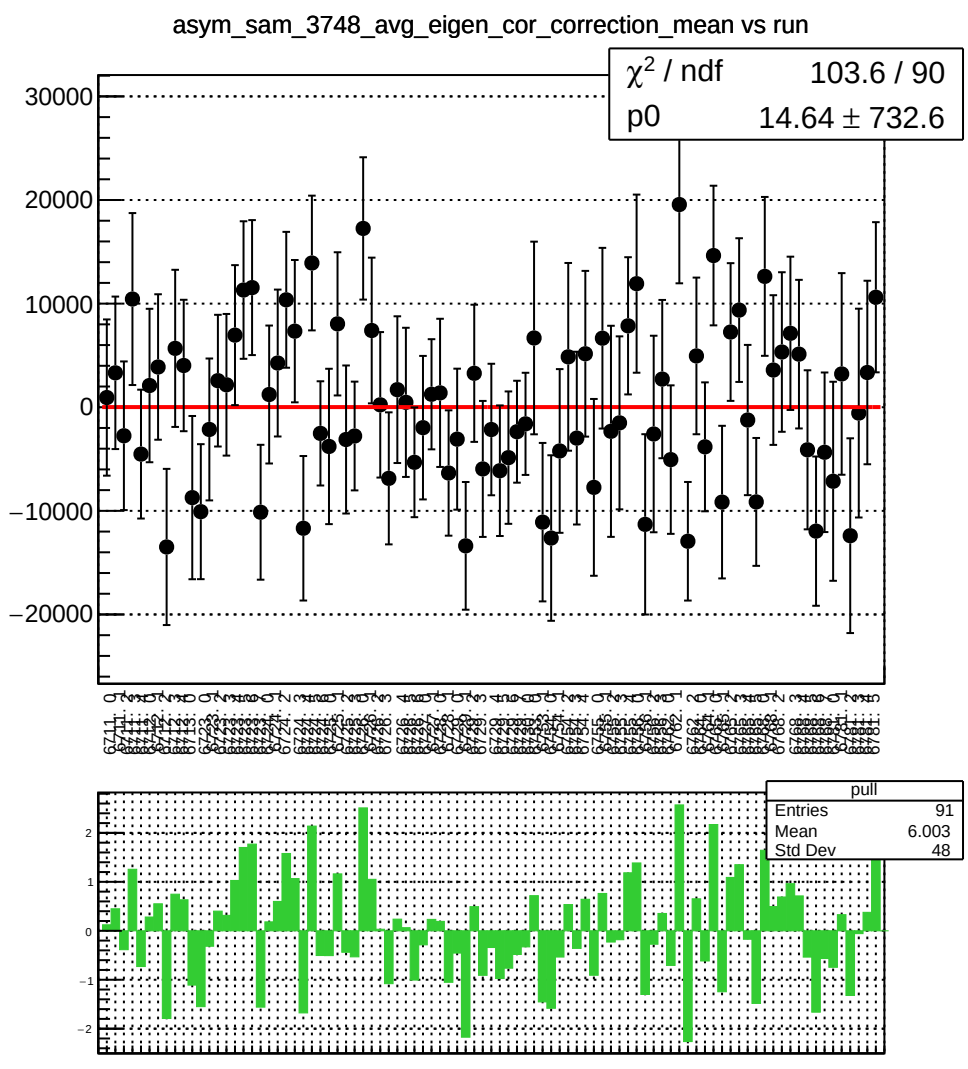

pull1D
Entries 91
Mean 0.01913
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

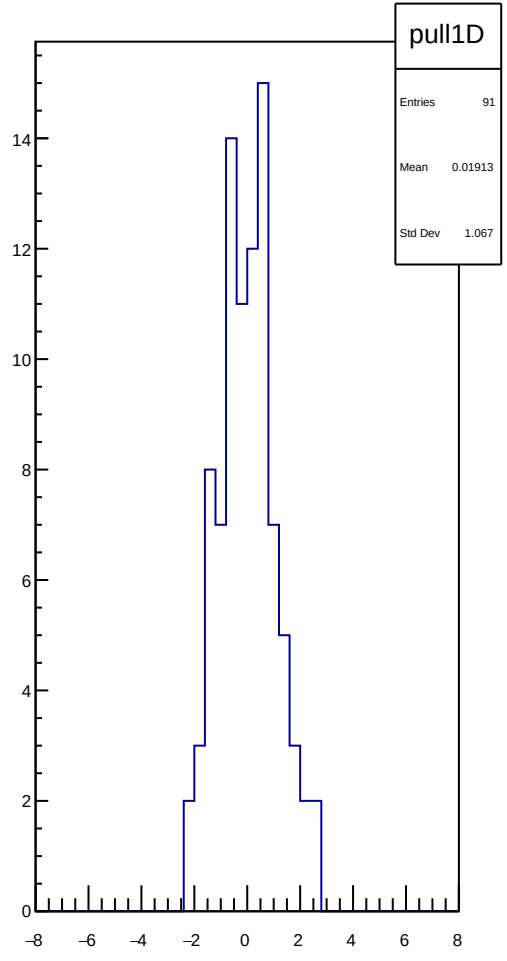

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 2.616e+04 / 90
p0 690.8 ± 0.518
1000
950
900
850
800
750
700
650
600
550

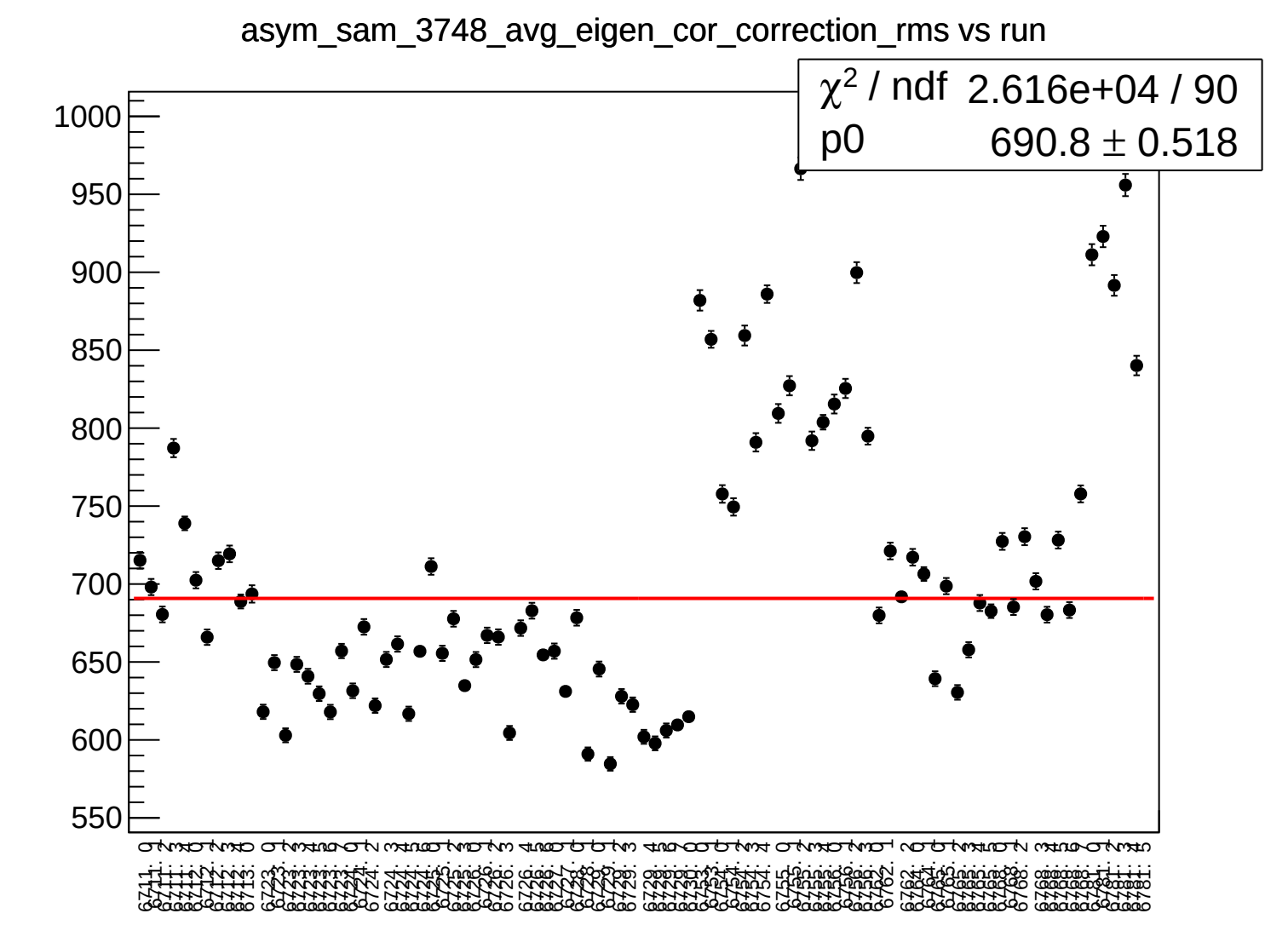

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 113.3 / 90
p0 −132.4 ± 86.9
pull
Entries 91
Mean 33.24
Std Dev 57.89

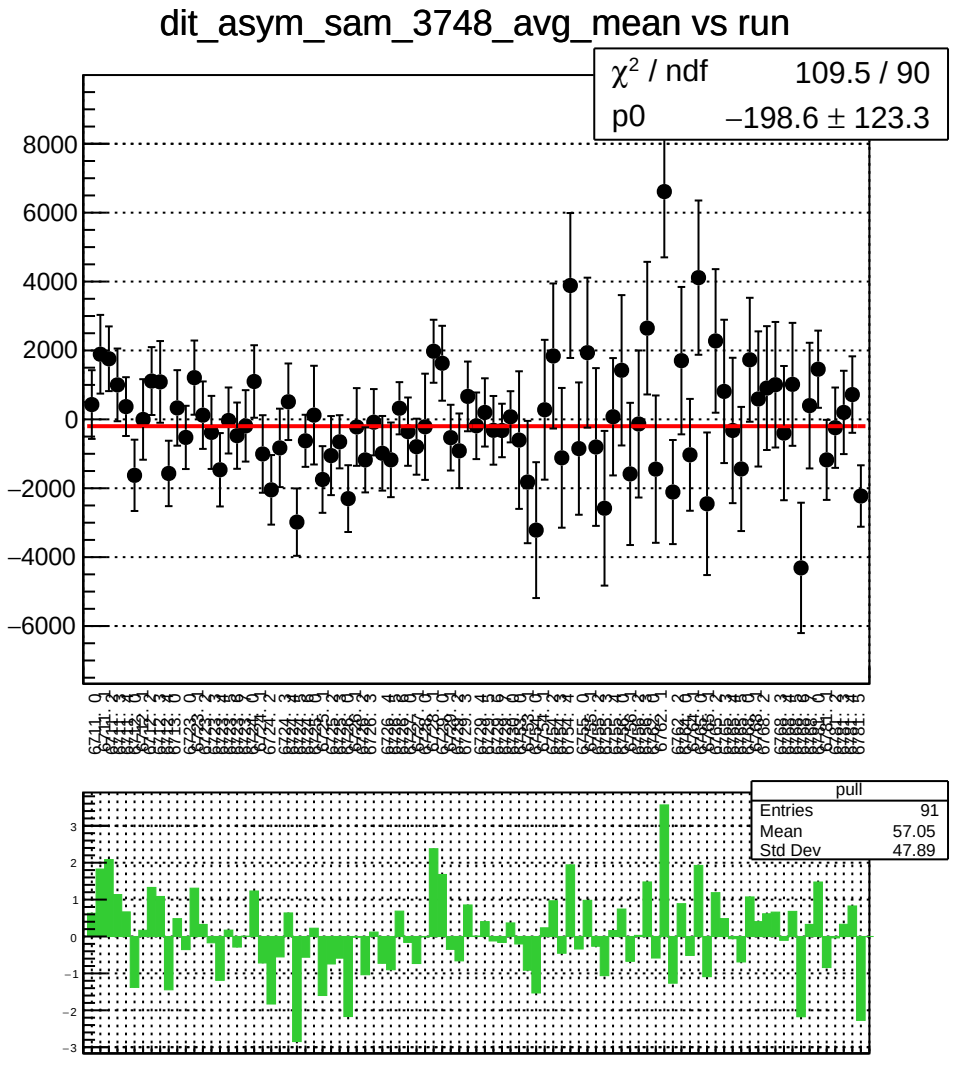

pull1D
Entries 91
Mean 0.02771
Std Dev 1.115

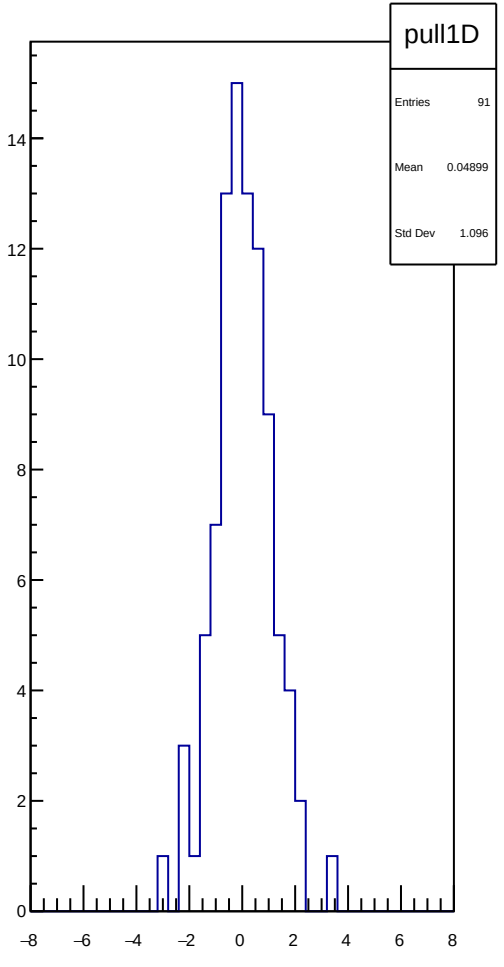

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 3.203e+04 / 90
p0 81.8 ± 0.06145
160
140
120
100
80
60

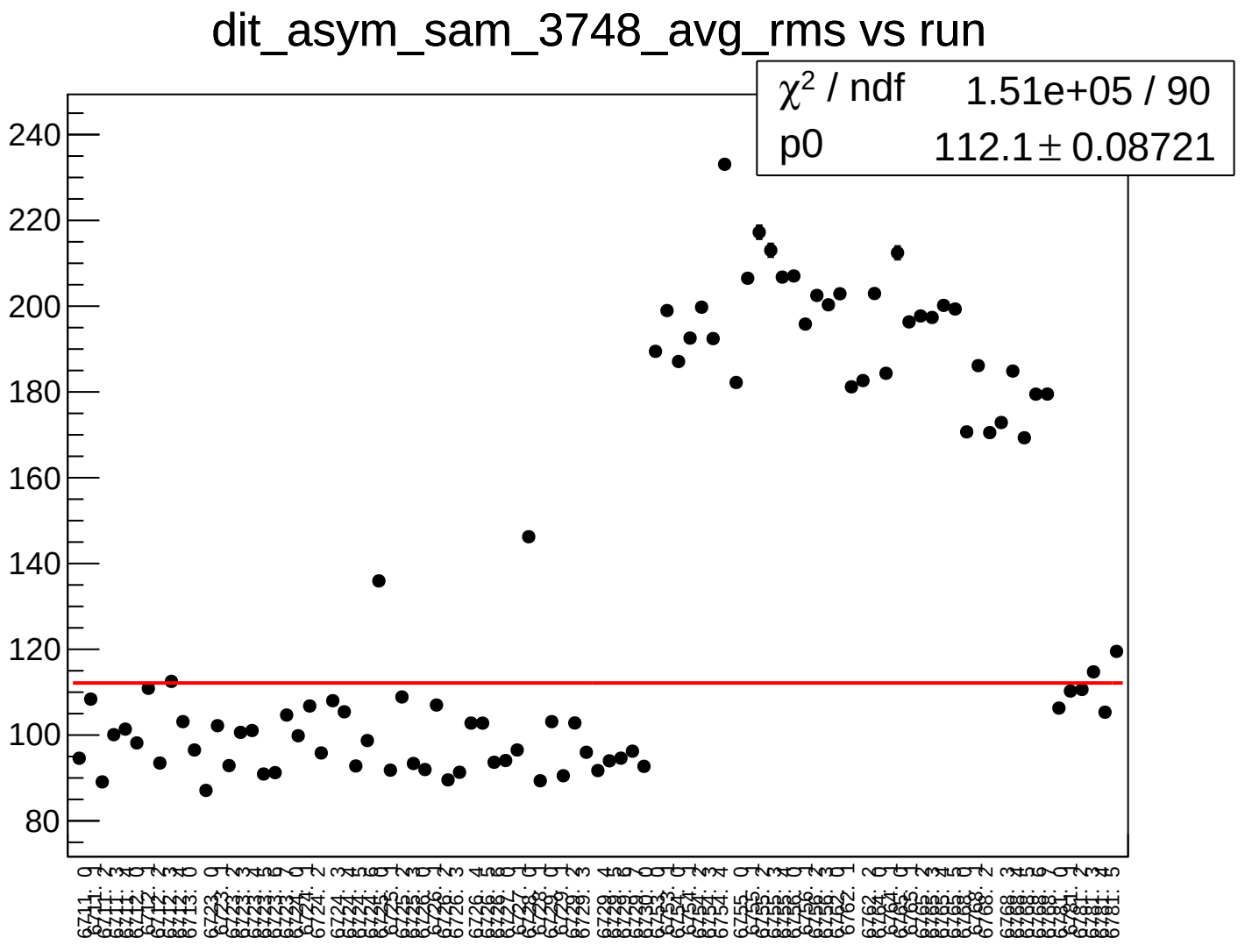

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 103.6 / 90
p0 14.64 ± 732.6
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 6.003
Std Dev 48
2
1
0
−1
−2

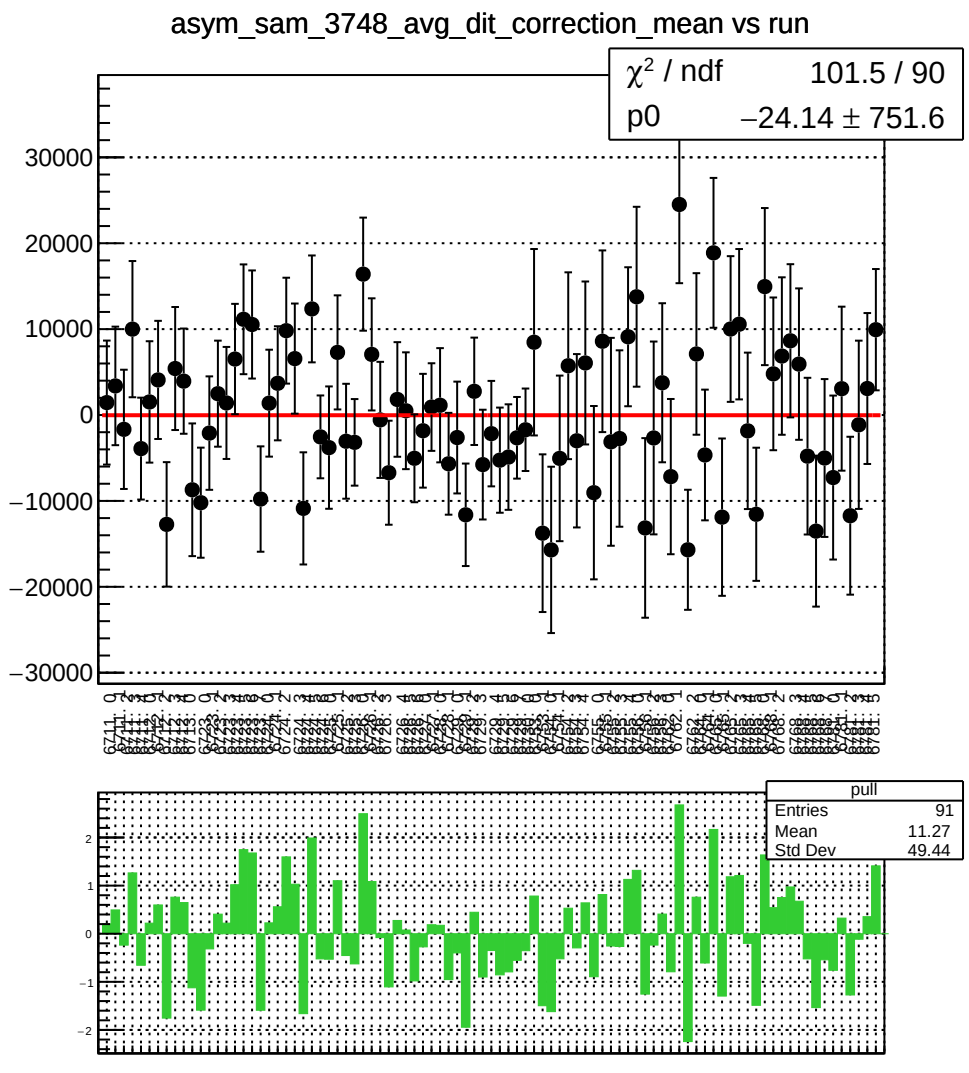

pull1D
Entries 91
Mean 0.01913
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

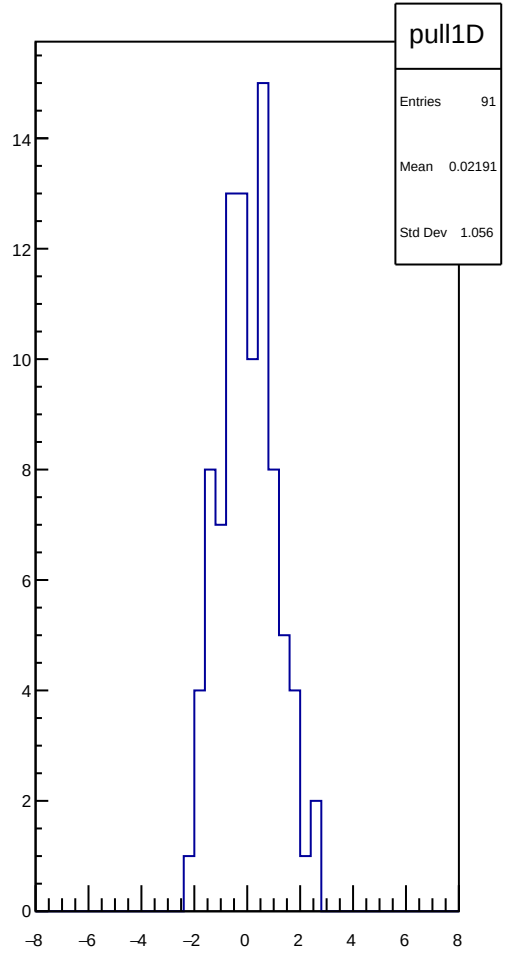

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 2.616e+04 / 90
p0 690.8 ± 0.518
1000
950
900
850
800
750
700
650
600
550

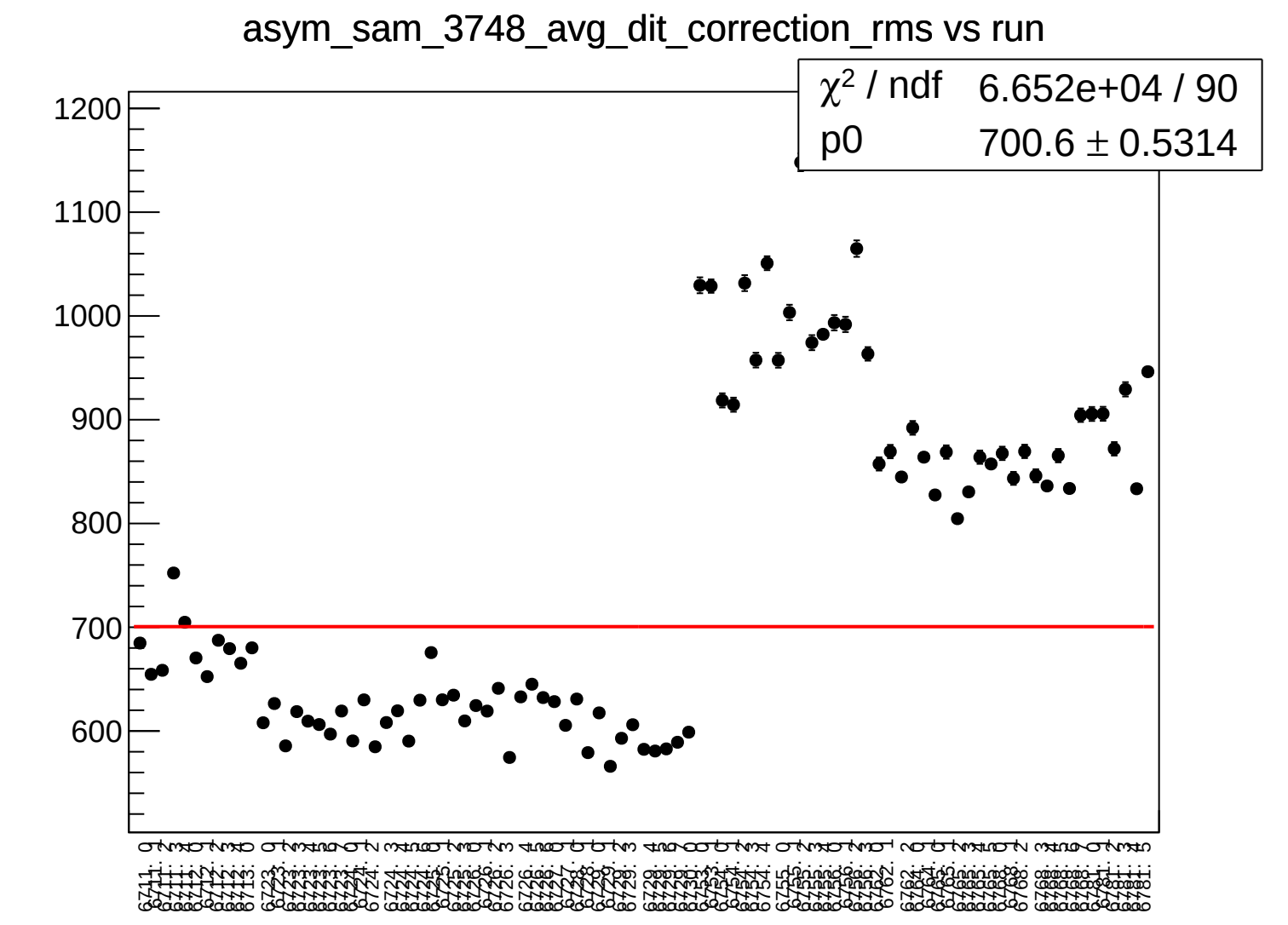

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 109.5 / 90
p0 −198.6 ± 123.3
pull
Entries 91
Mean 57.05
Std Dev 47.89

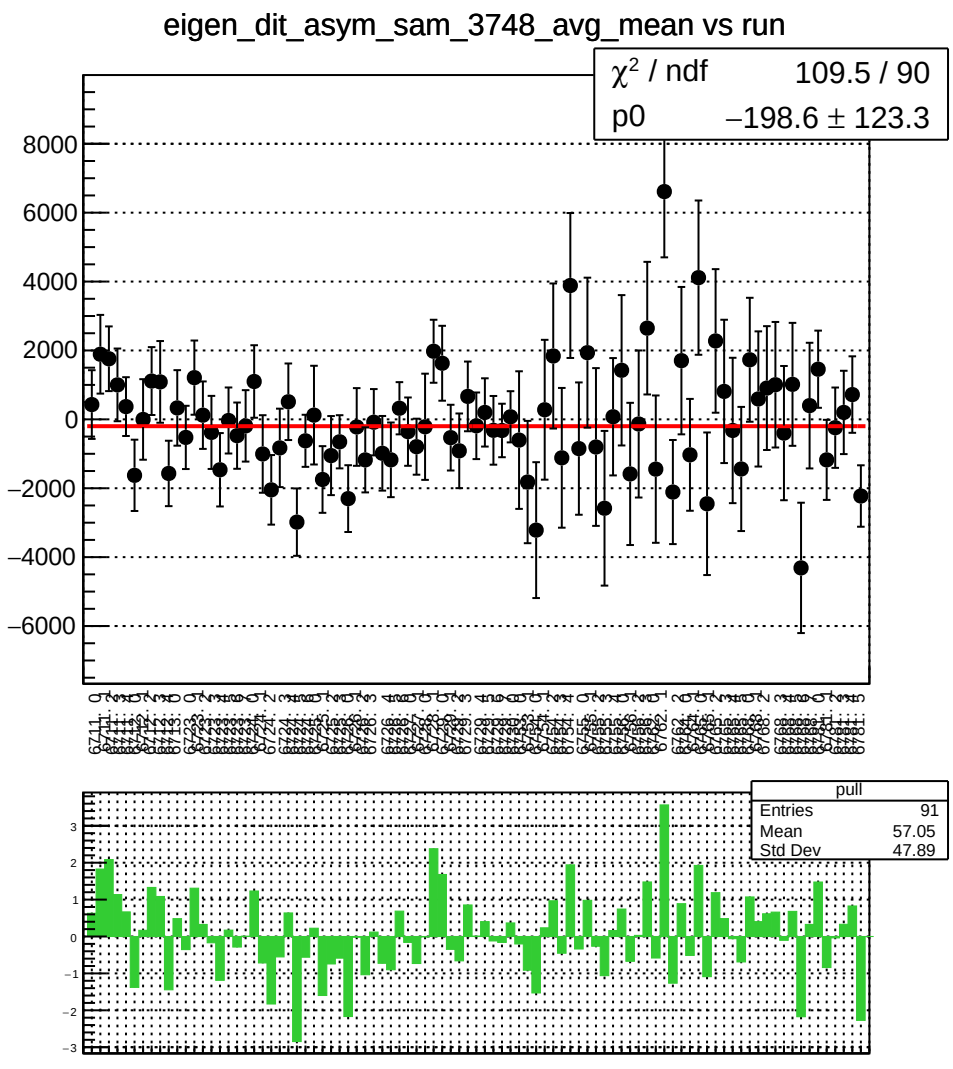

pull1D
Entries 91
Mean 0.04899
Std Dev 1.096

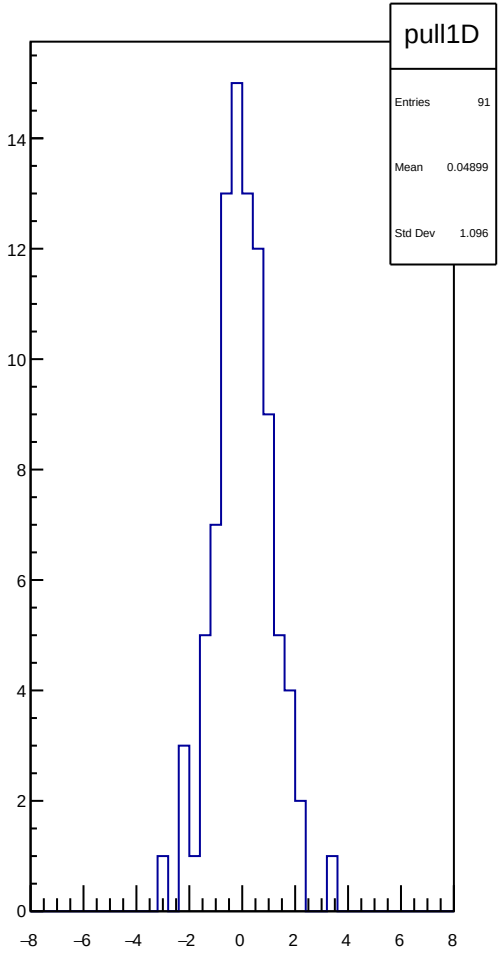

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.51e+05 / 90
p0 112.1 ± 0.08721
240
220
200
180
160
140
120
100
80

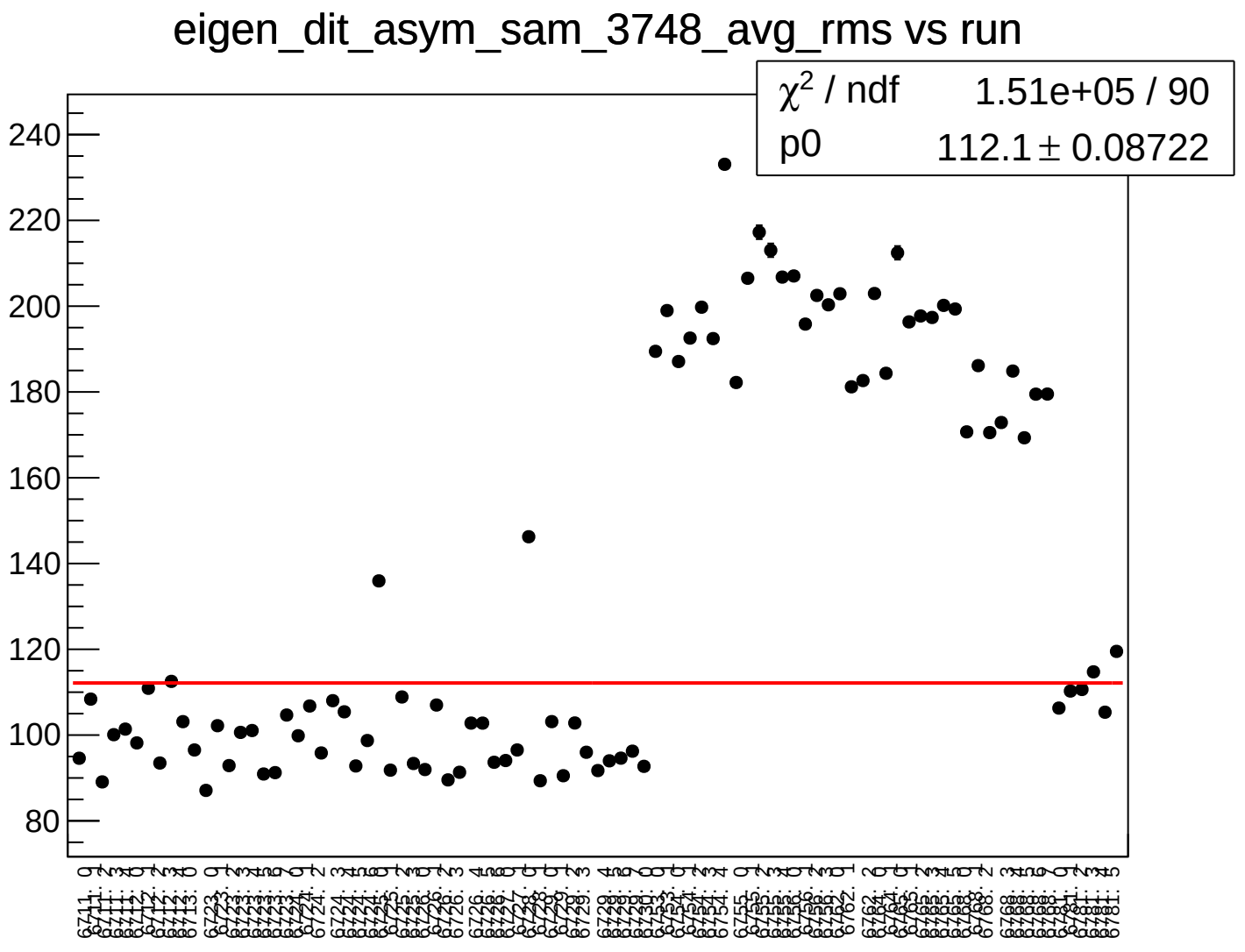

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 101.5 / 90
p0 −24.14 ± 751.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 11.27
Std Dev 49.44
2
1
0
−1
−2

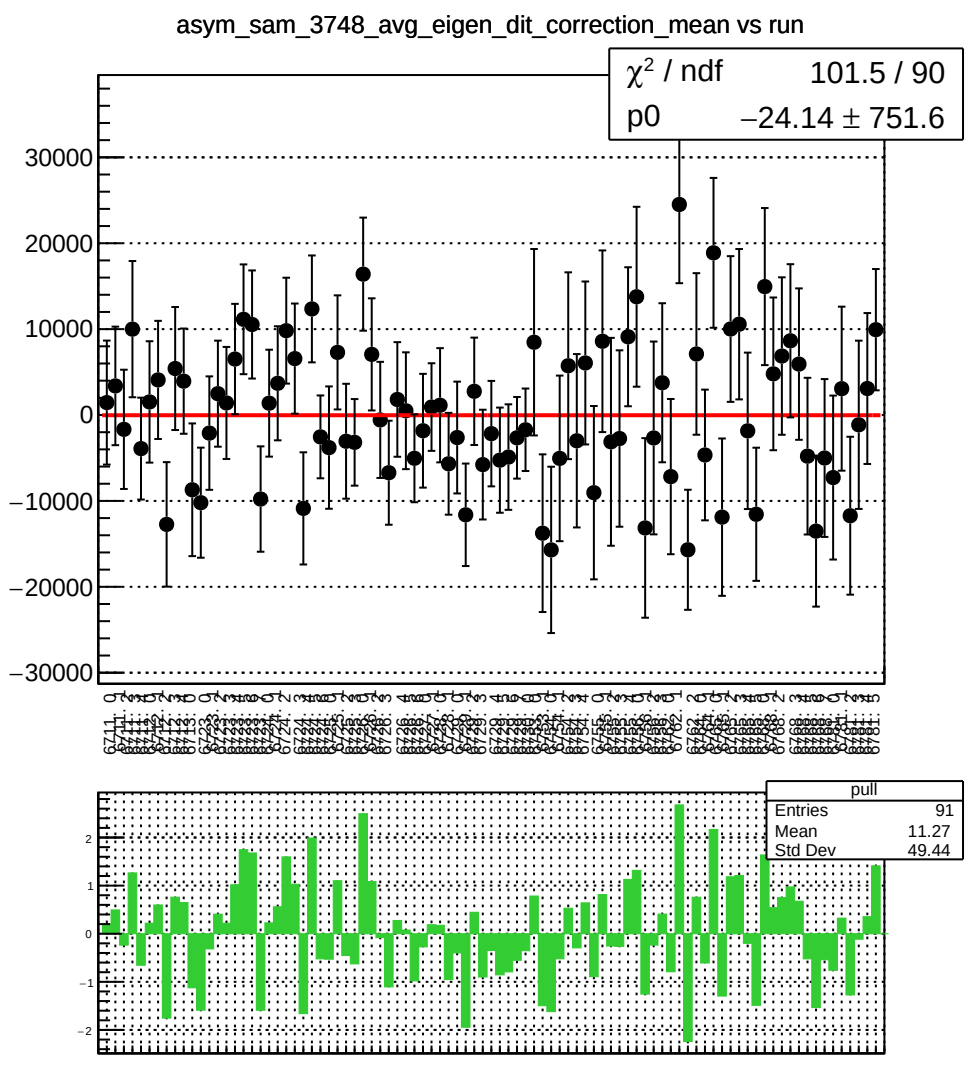

pull1D
Entries 91
Mean 0.02191
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

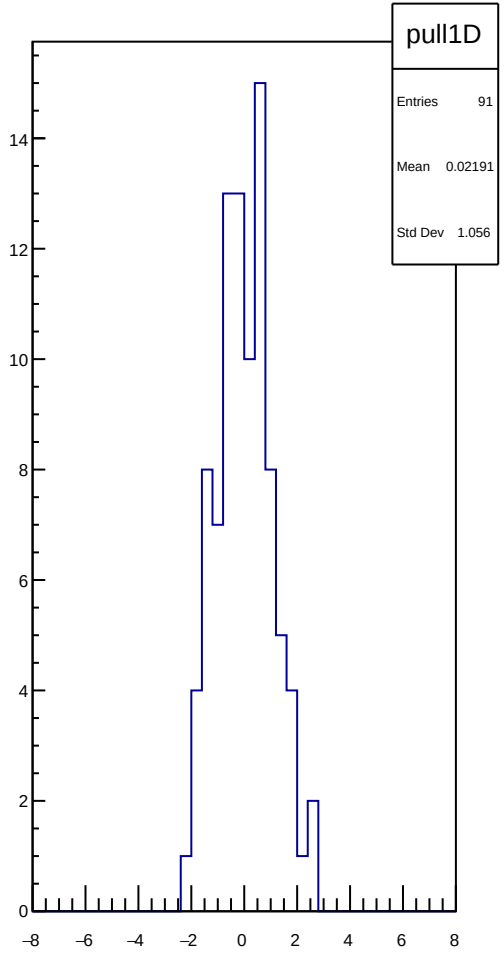

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 6.652e+04 / 90
p0 700.6 ± 0.5314
1200
1100
1000
900
800
700
600

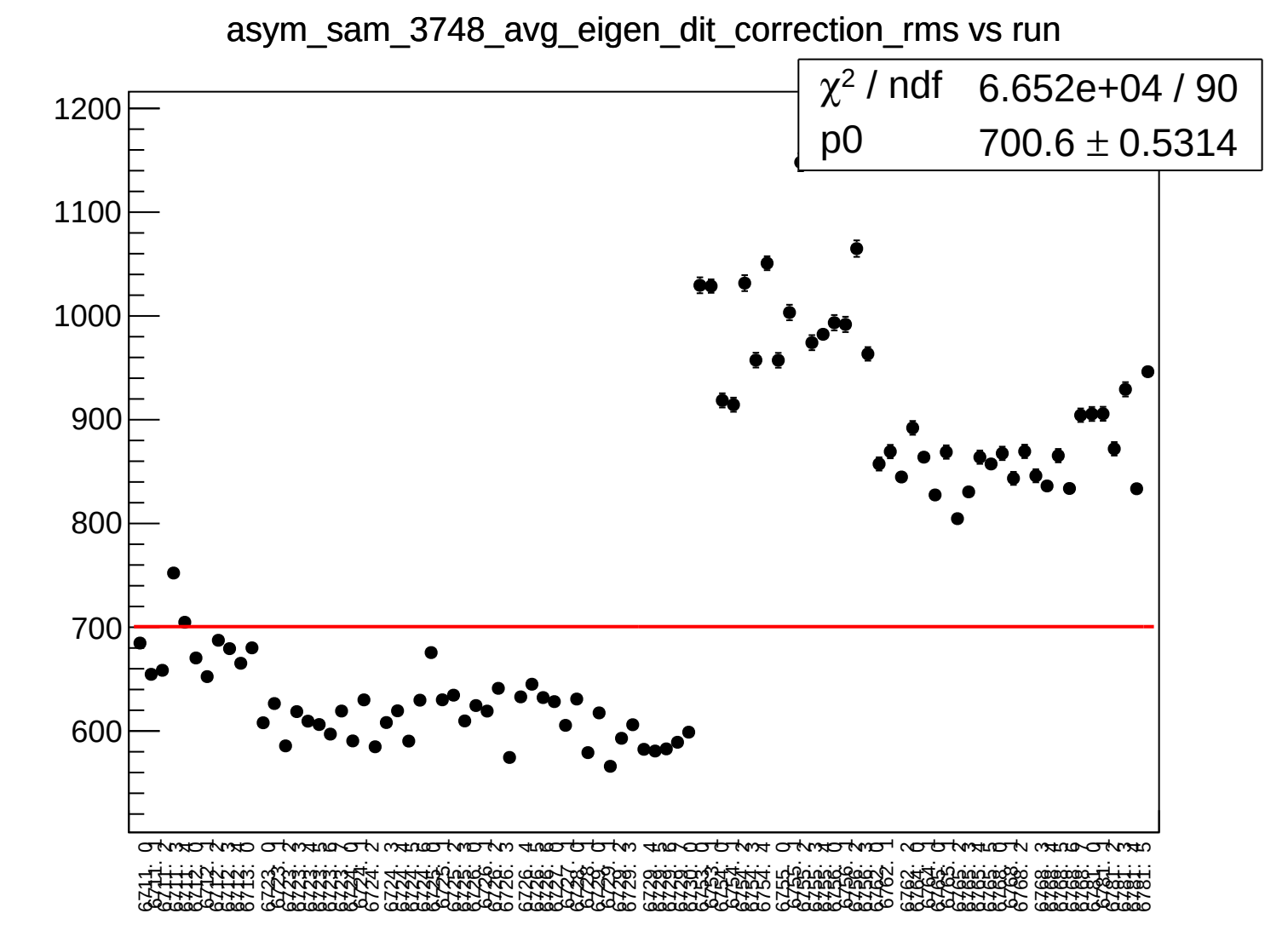

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 109.5 / 90
p0 −198.6 ± 123.3
pull
Entries 91
Mean 57.05
Std Dev 47.89

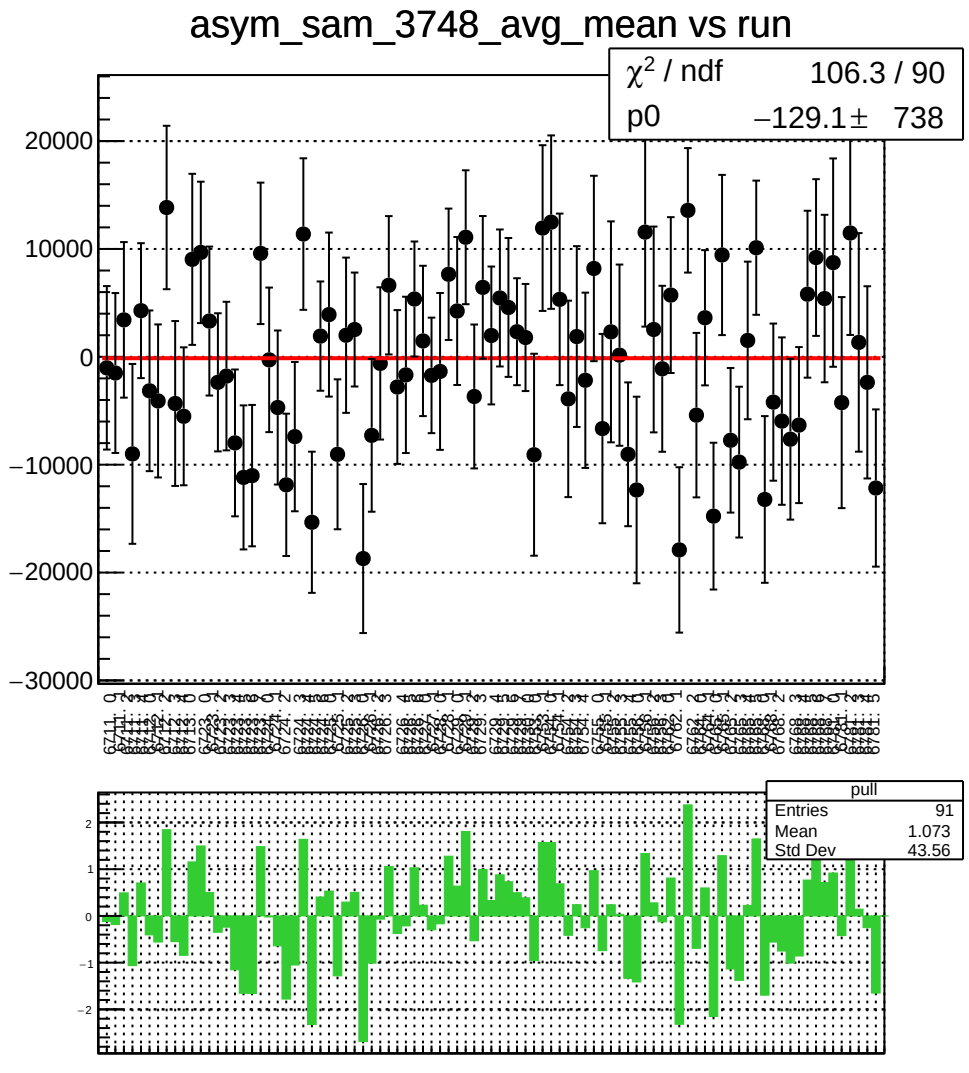

pull1D
Entries 91
Mean 0.04899
Std Dev 1.096

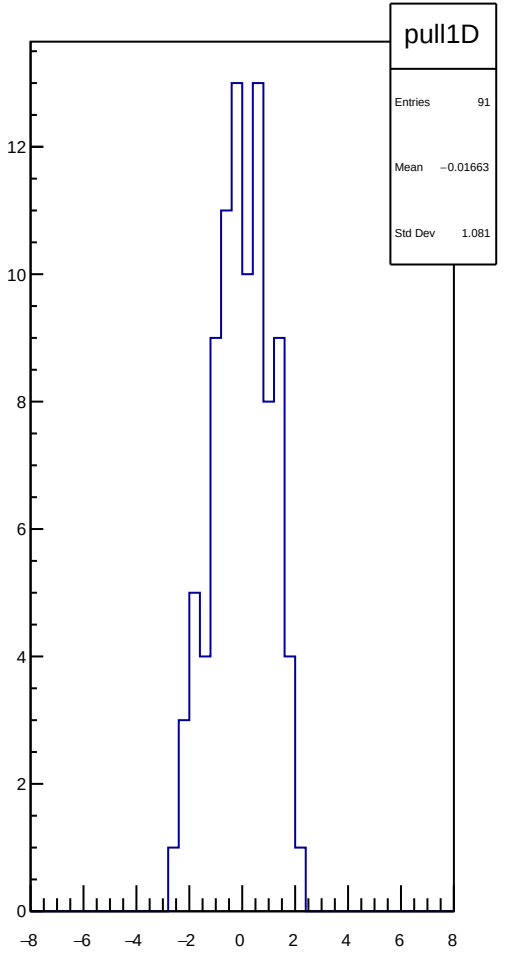

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.51e+05 / 90
p0 112.1 ± 0.08722
240
220
200
180
160
140
120
100
80

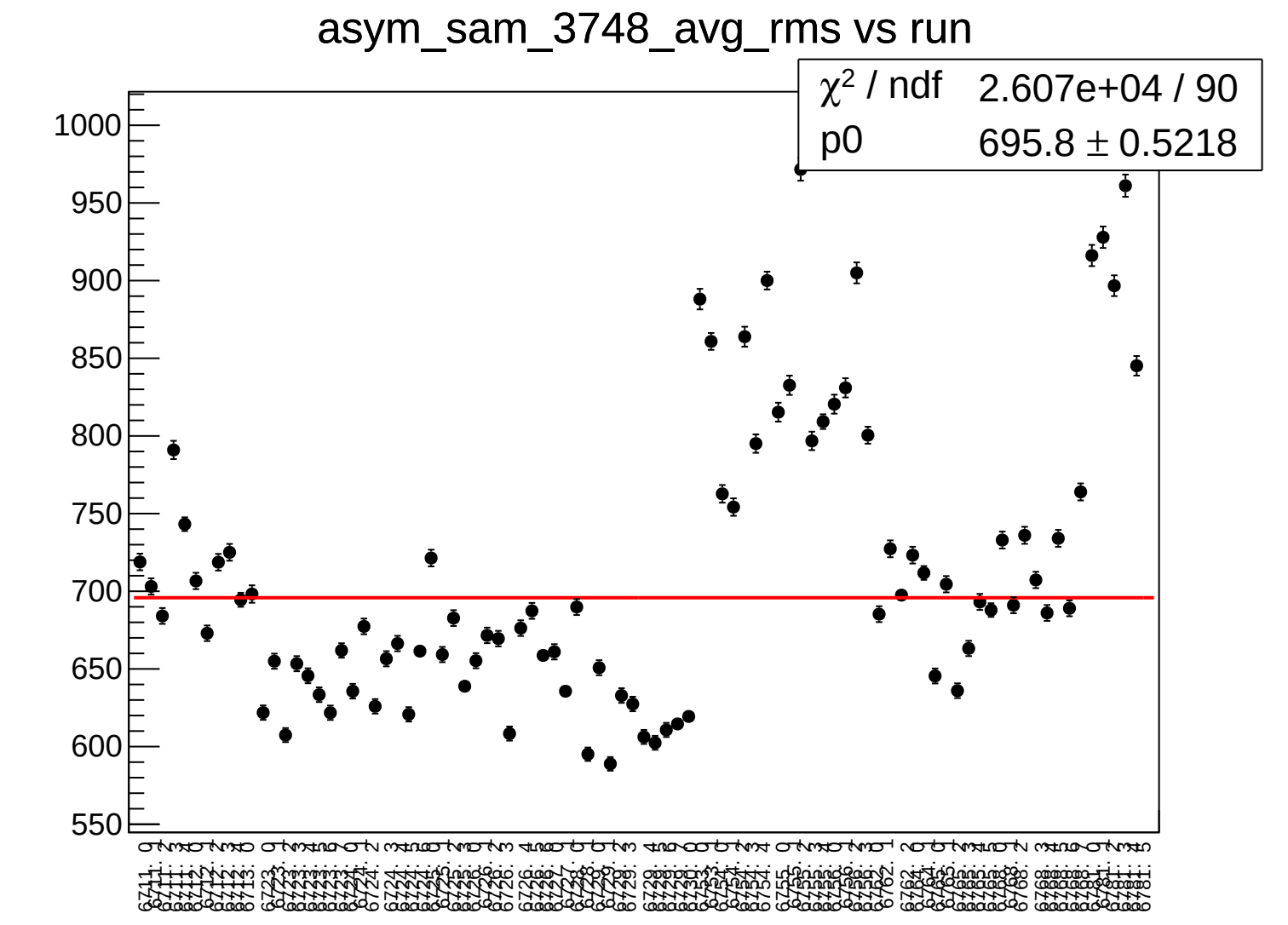

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 101.5 / 90
p0 −24.14 ± 751.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 91
Mean 11.27
Std Dev 49.44
2
1
0
−1
−2

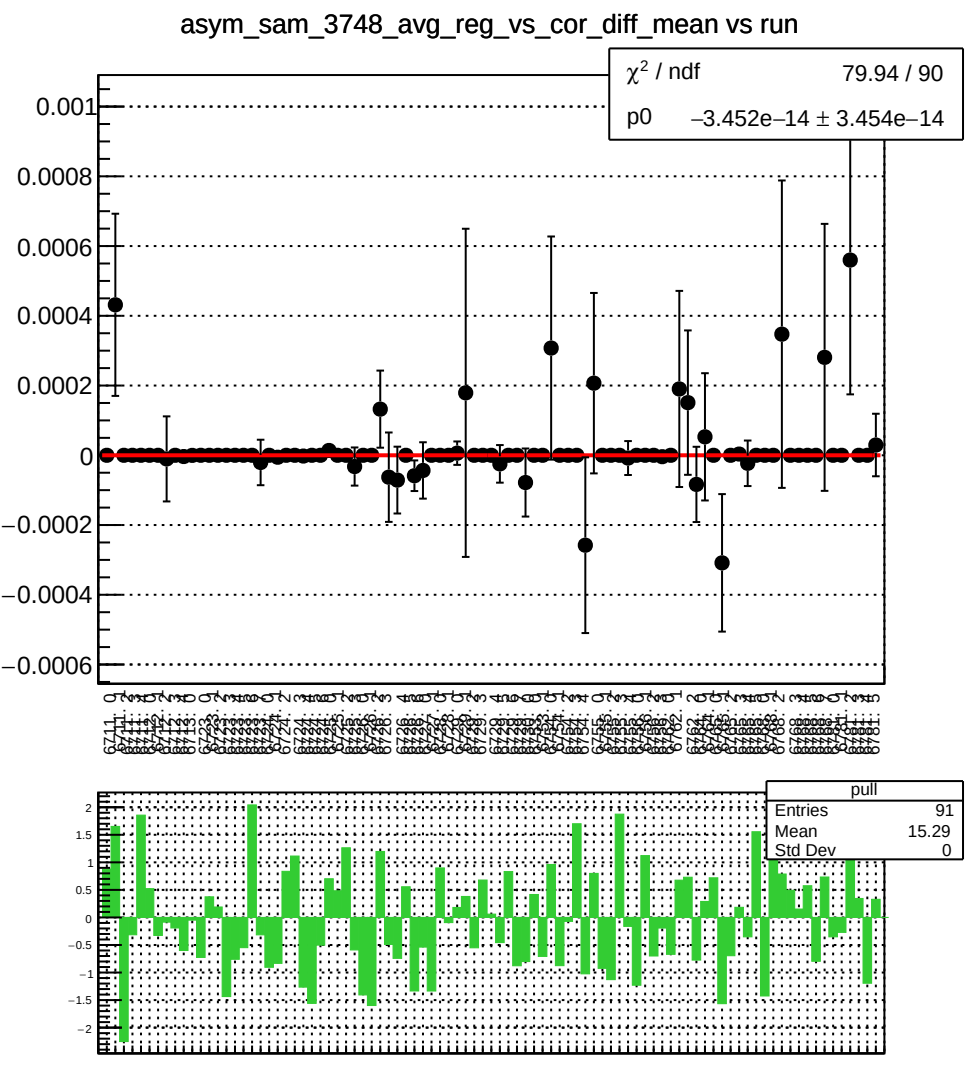

pull1D
Entries 91
Mean 0.02191
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

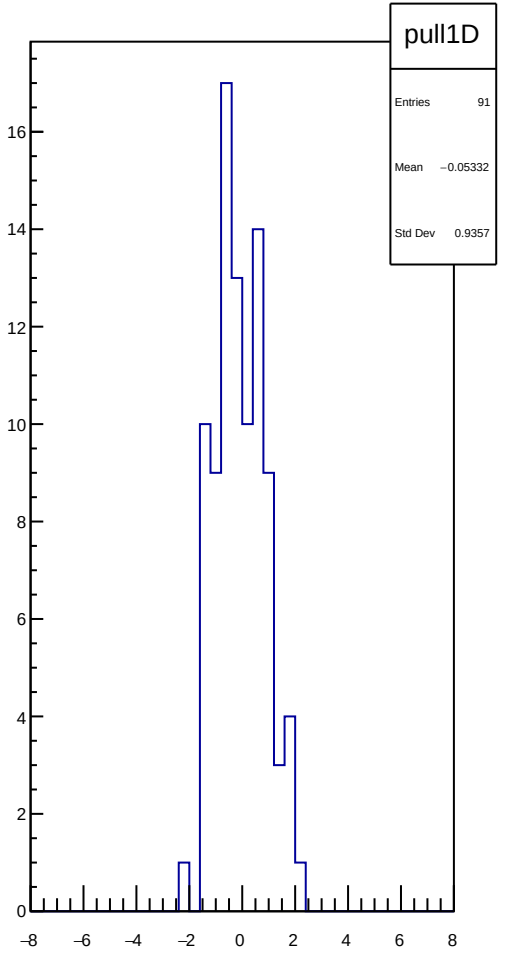

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 6.652e+04 / 90
p0 700.6 ± 0.5314
1200
1100
1000
900
800
700
600

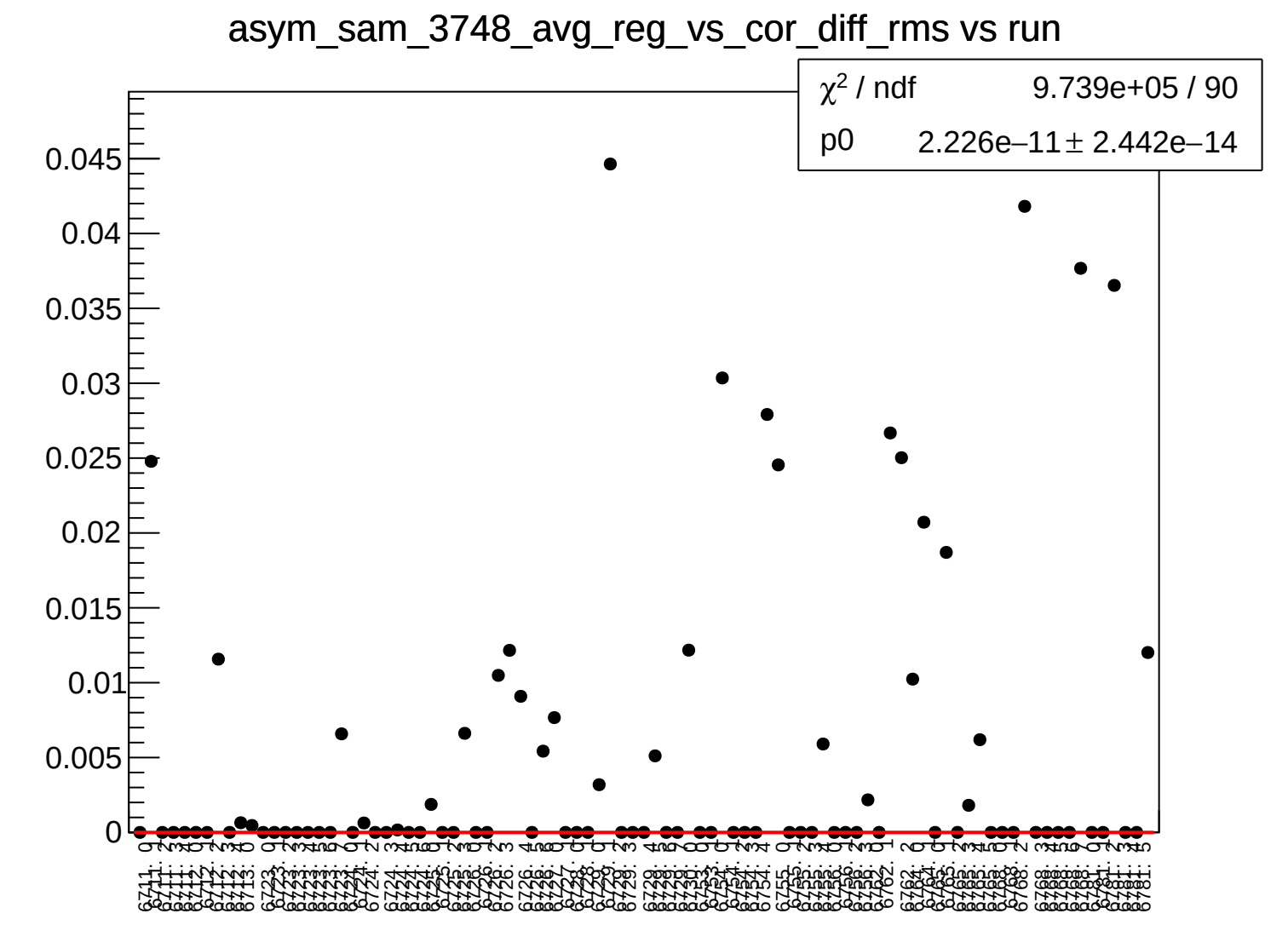

asym_sam_3748_avg_mean vs run
χ² / ndf 106.3 / 90
p0 −129.1± 738
pull
Entries 91
Mean 1.073
Std Dev 43.56

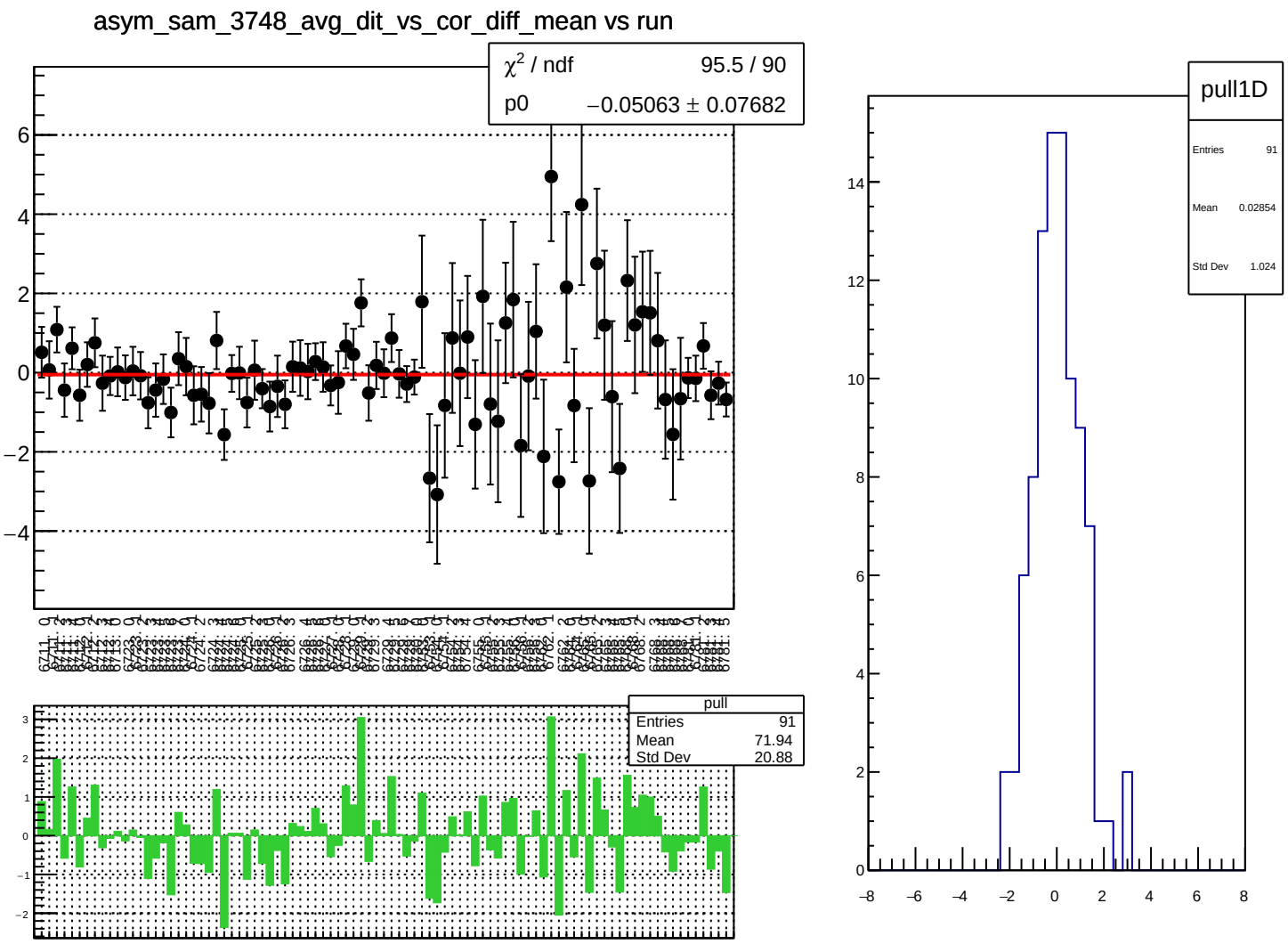

pull1D
Entries 91
Mean −0.01663
Std Dev 1.081

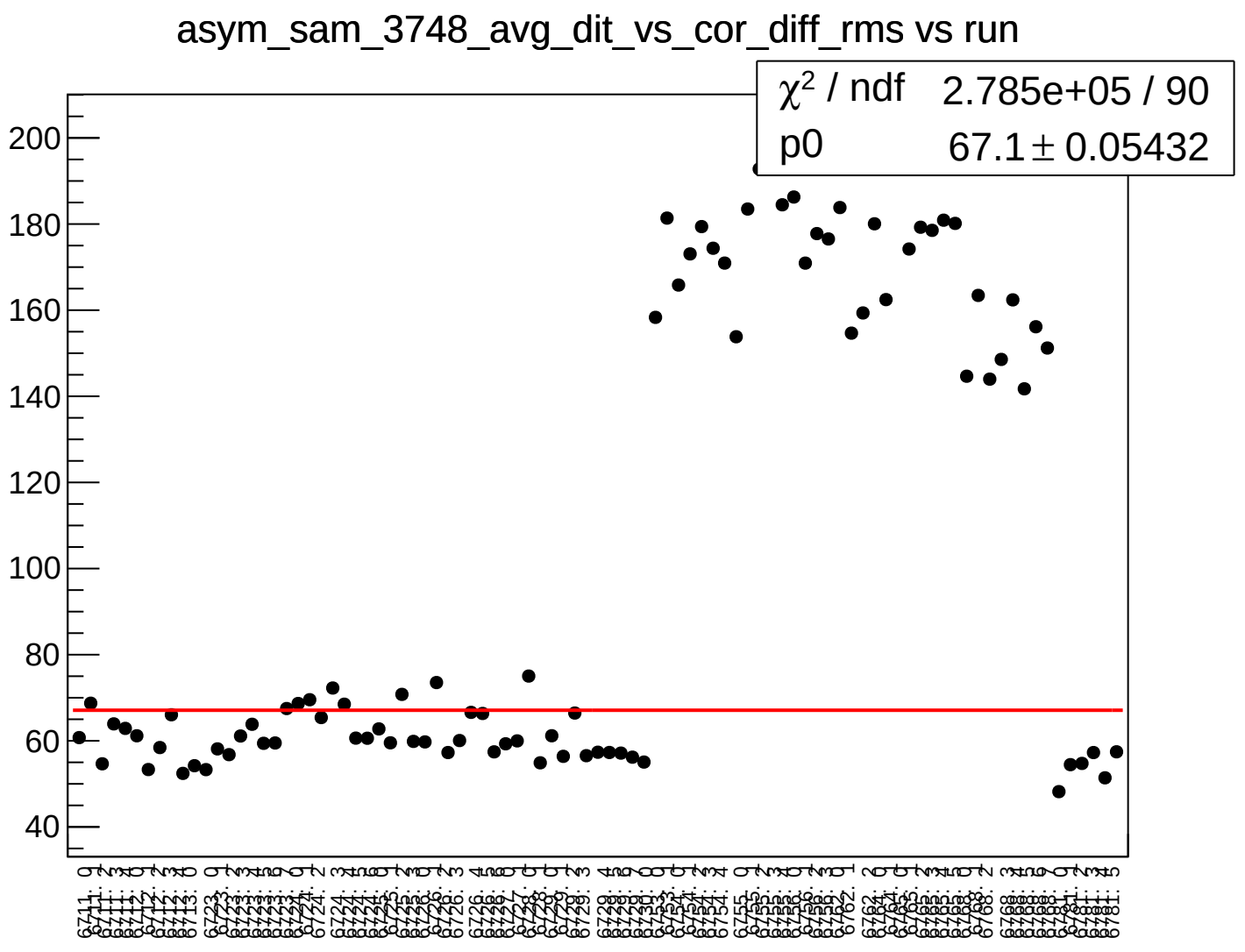

asym_sam_3748_avg_rms vs run
χ² / ndf 2.607e+04 / 90
p0 695.8 ± 0.5218
1000
950
900
850
800
750
700
650
600
550

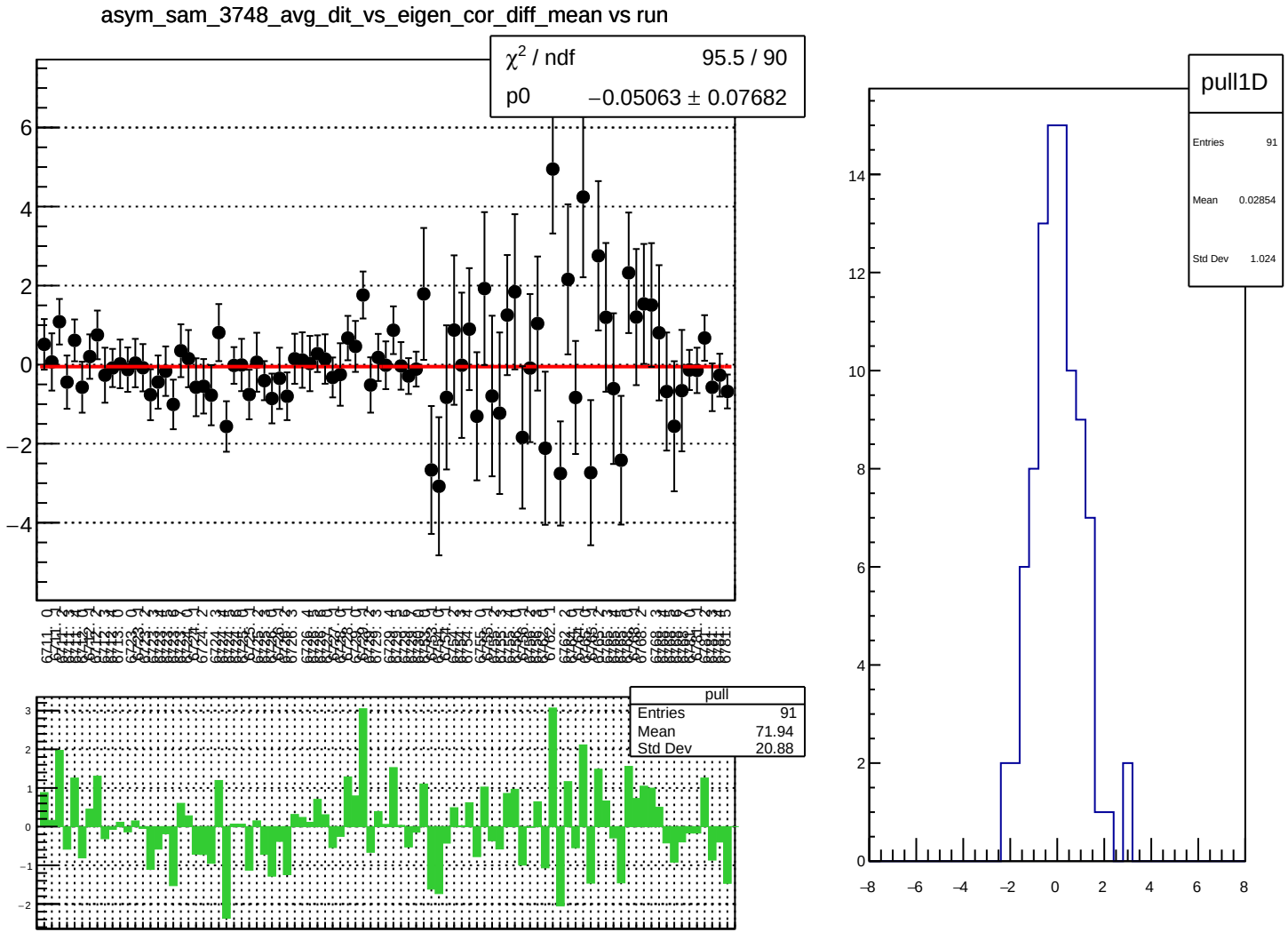

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.94 / 90
p0 −3.452e−14 ± 3.454e−14
pull
Entries 91
Mean 15.29
Std Dev 0

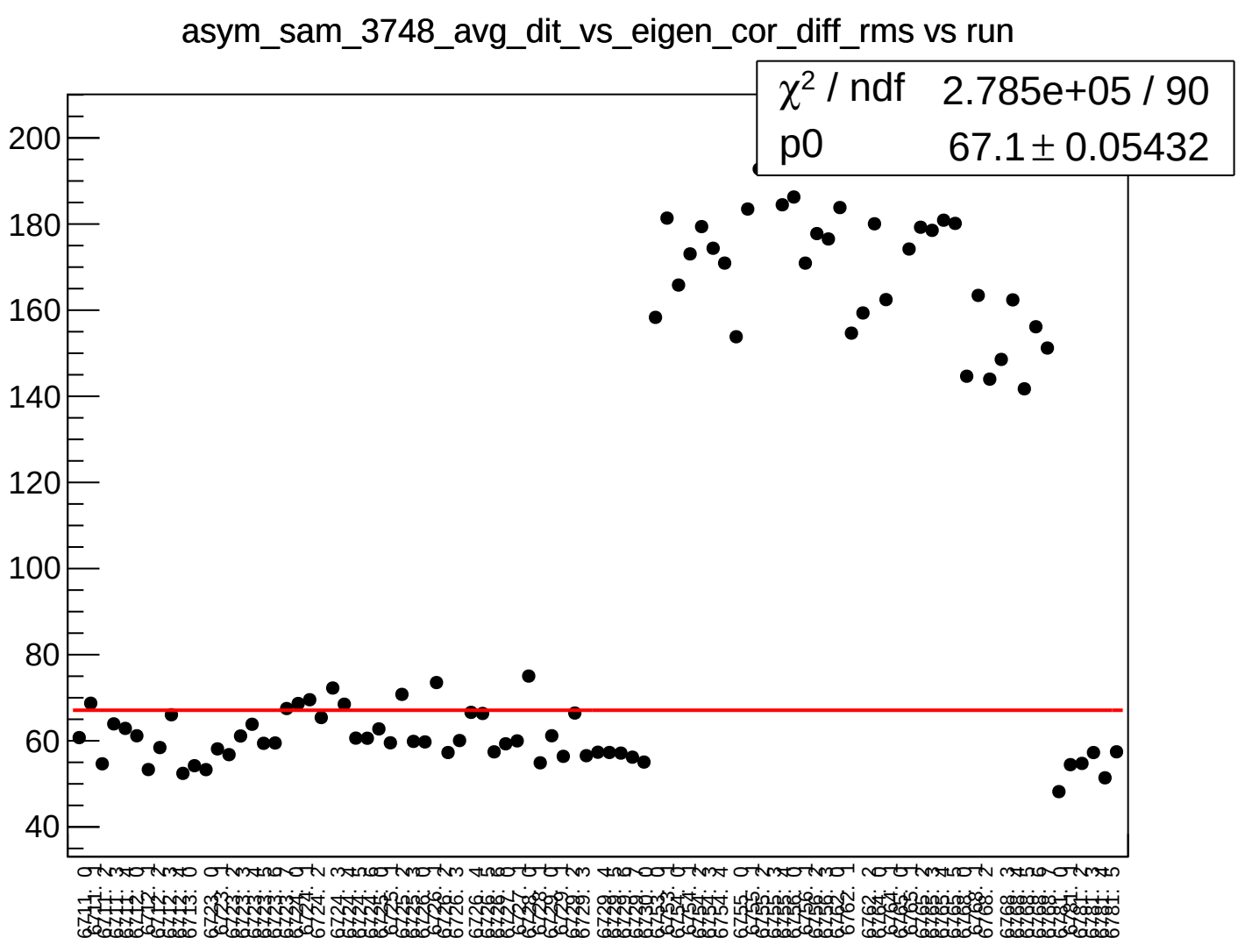

pull1D
Entries 91
Mean −0.05332
Std Dev 0.9357

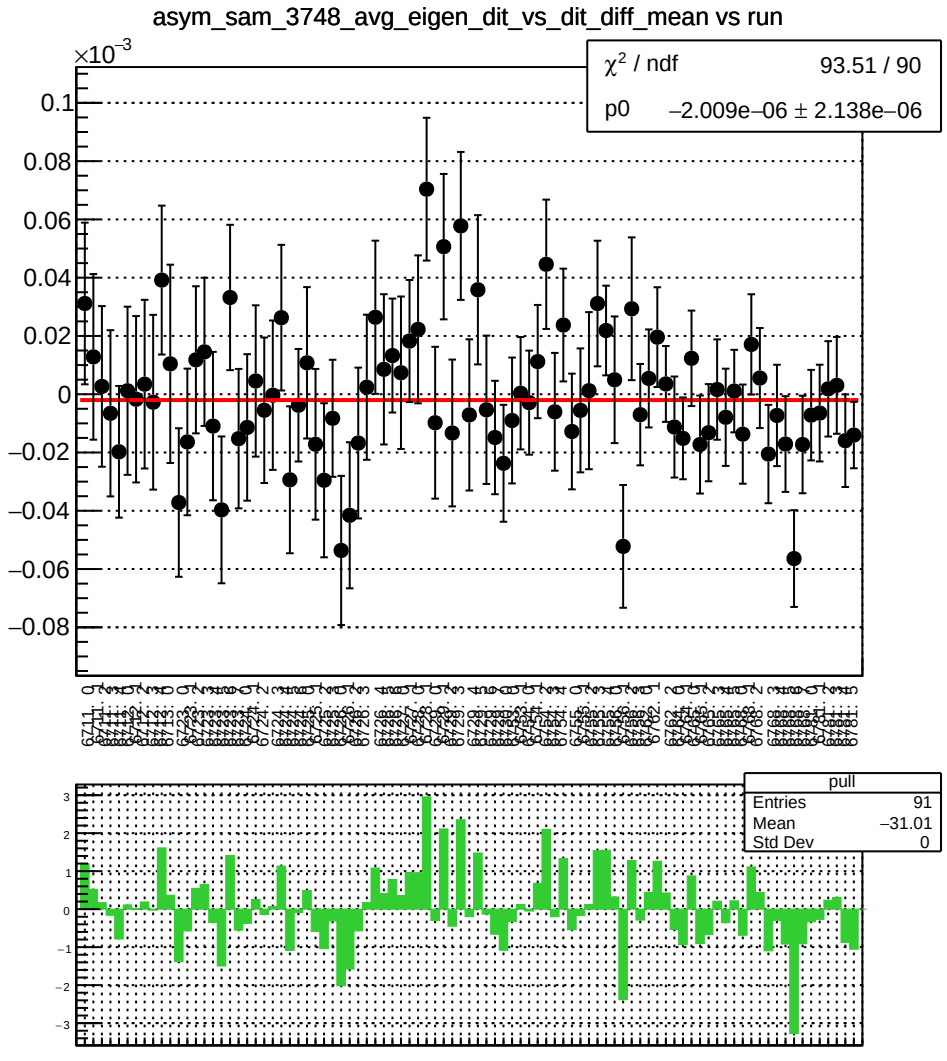

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.739e+05 / 90
p0 2.226e−11 ± 2.442e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

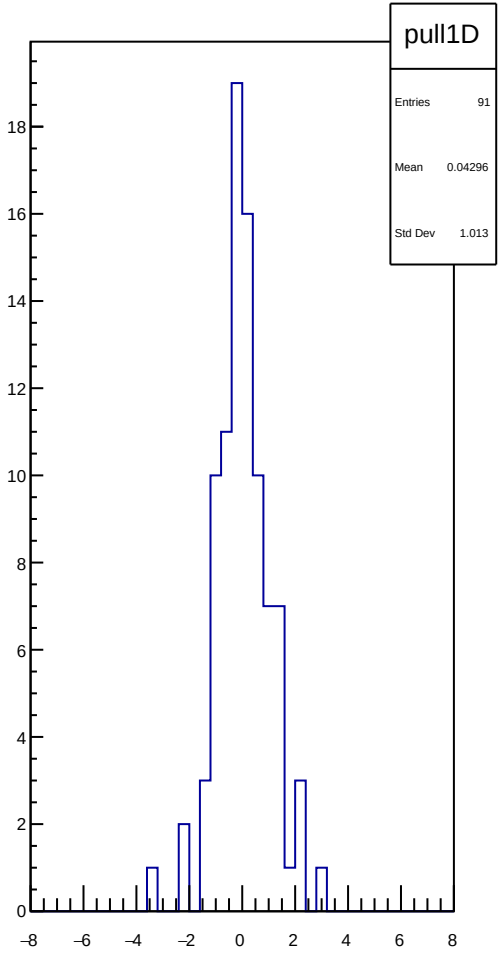

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.5 / 90
p0 −0.05063 ± 0.07682
pull
Entries 91
Mean 71.94
Std Dev 20.88
pull1D
Entries 91
Mean 0.02854
Std Dev 1.024

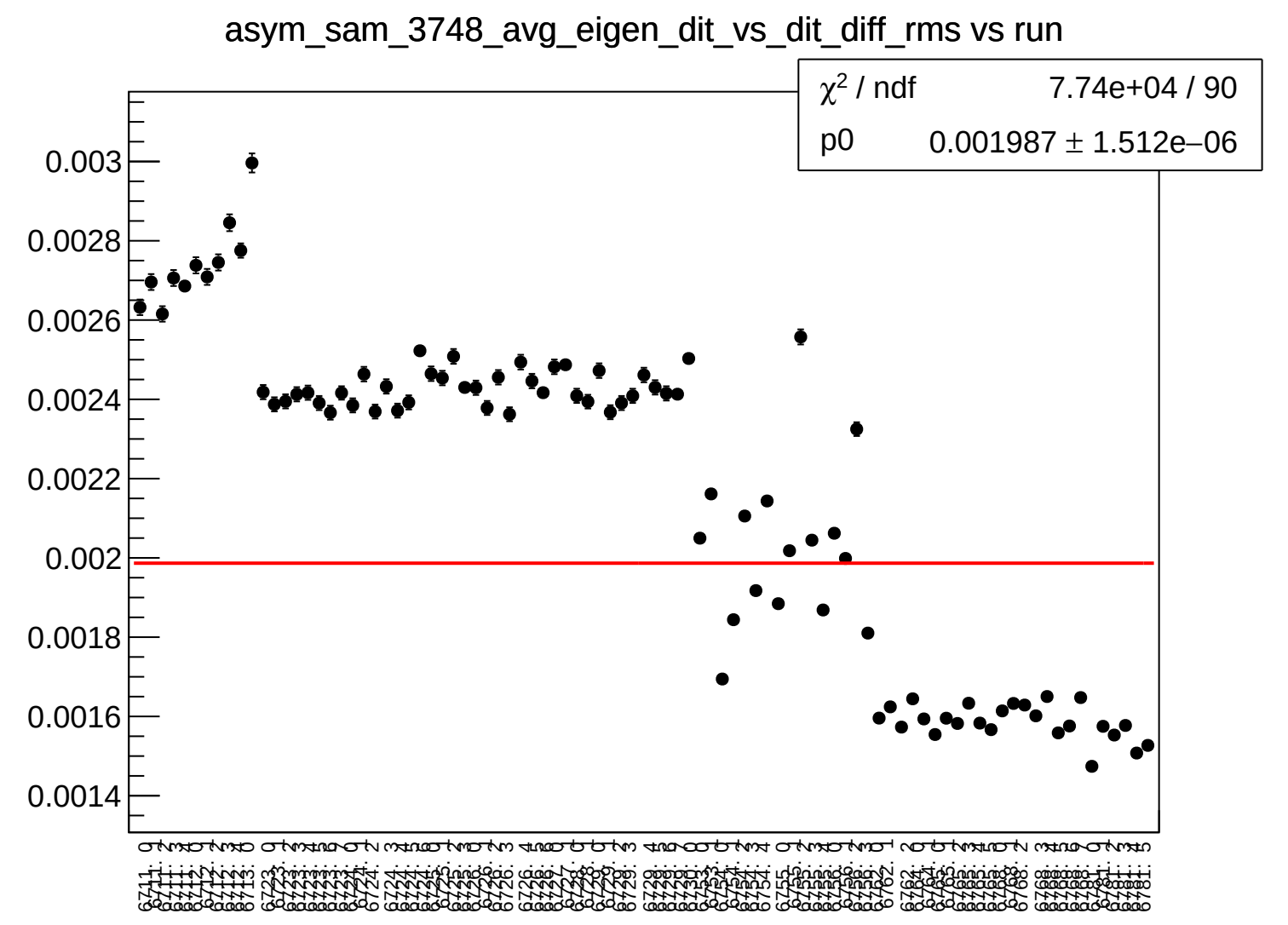

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.785e+05 / 90
p0 67.1 ± 0.05432
200
180
160
140
120
100
80
60
40

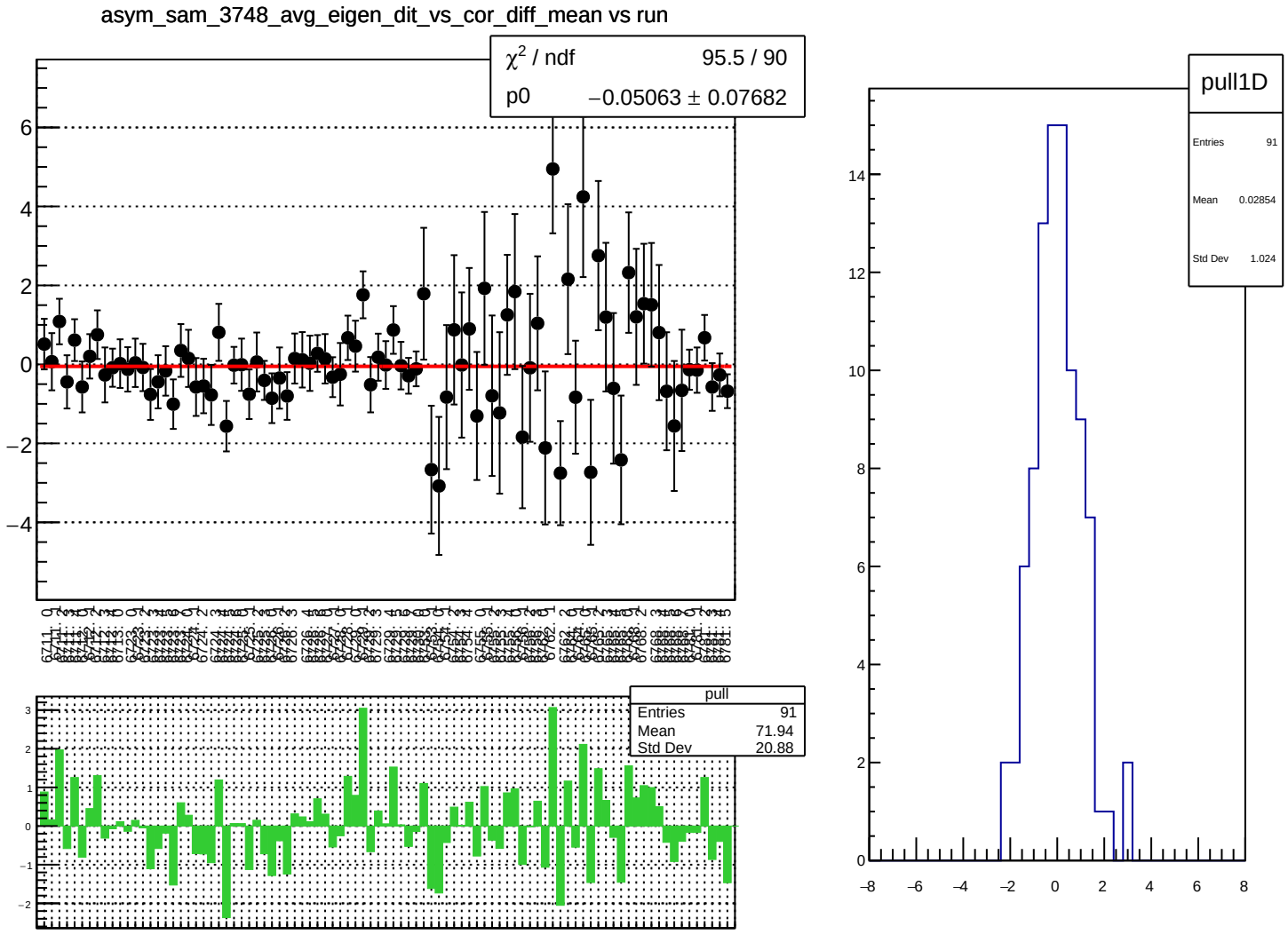

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.5 / 90
p0 −0.05063 ± 0.07682
pull
Entries 91
Mean 71.94
Std Dev 20.88
pull1D
Entries 91
Mean 0.02854
Std Dev 1.024

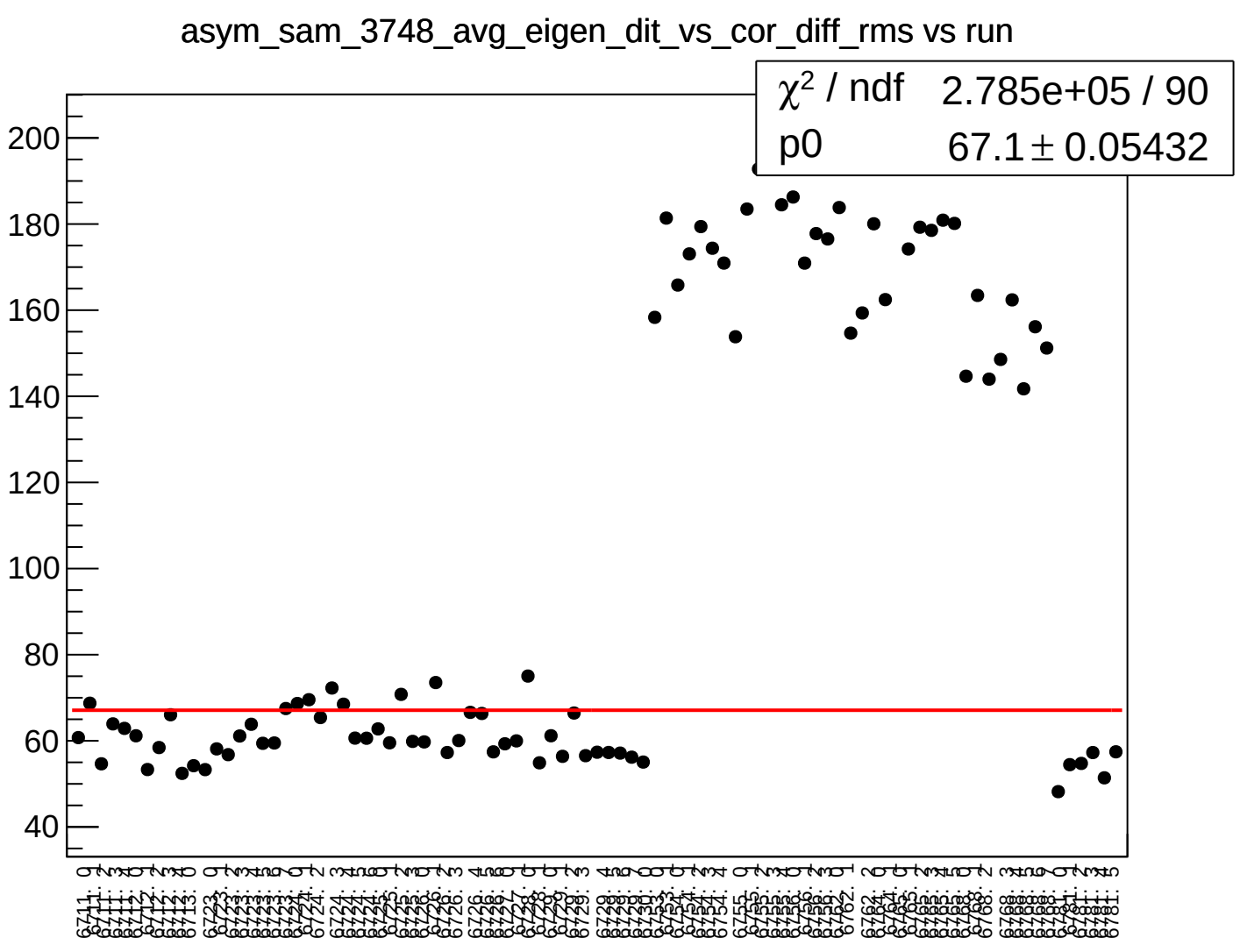

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.785e+05 / 90
p0 67.1 ± 0.05432
200
180
160
140
120
100
80
60
40

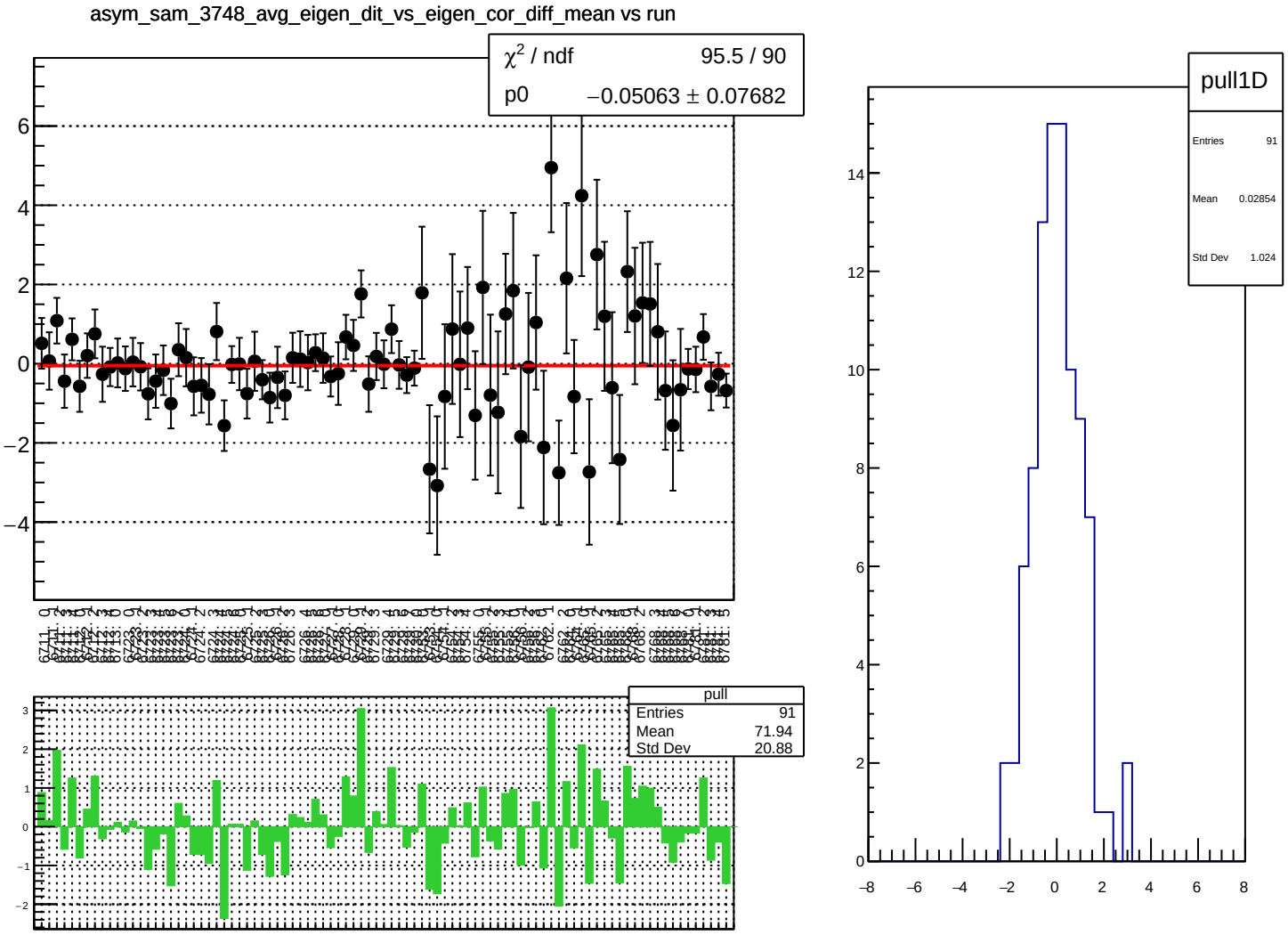

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.51 / 90
p0 −2.009e−06 ± 2.138e−06
pull
Entries 91
Mean −31.01
Std Dev 0

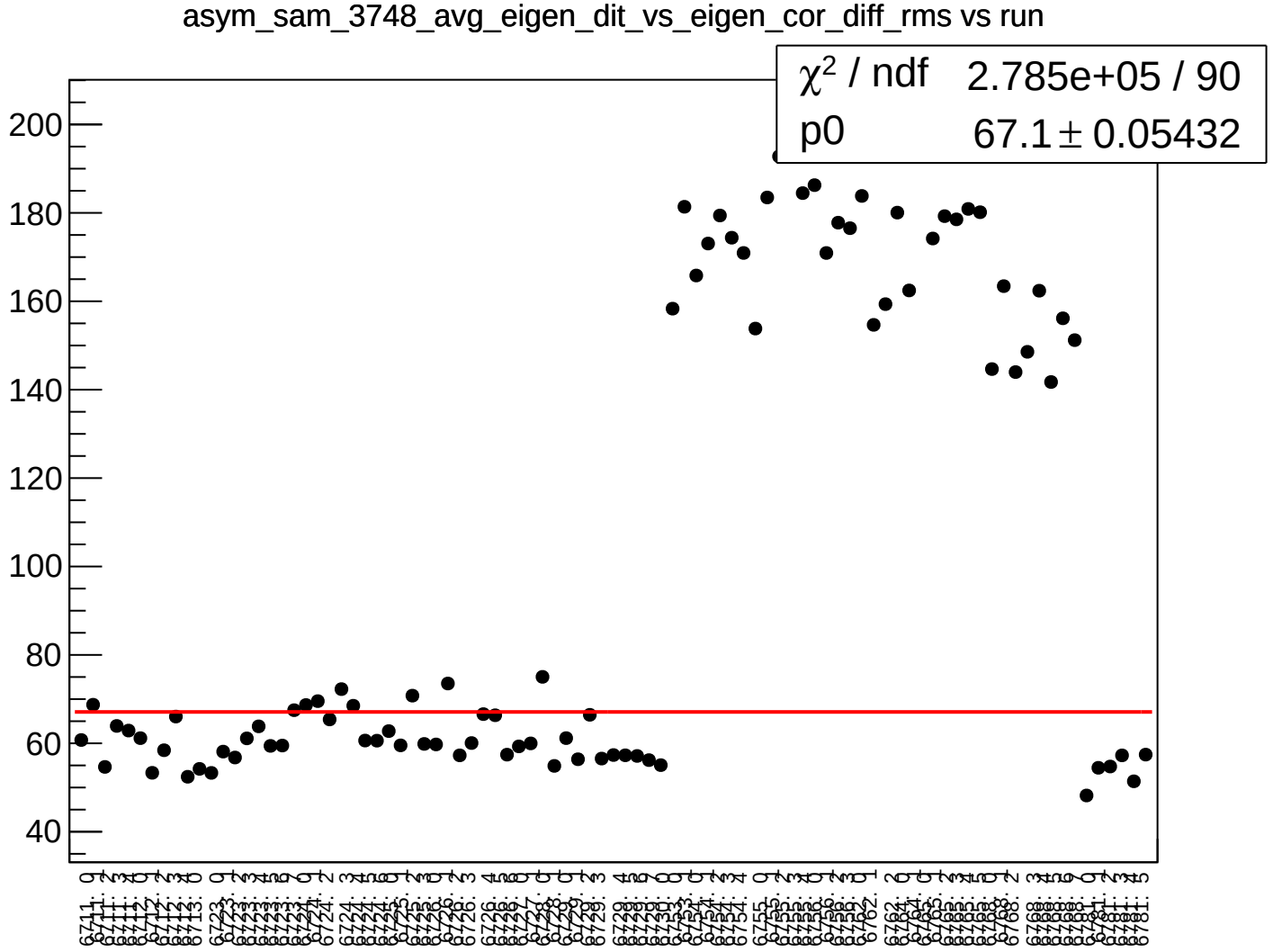

pull1D
Entries 91
Mean 0.04296
Std Dev 1.013

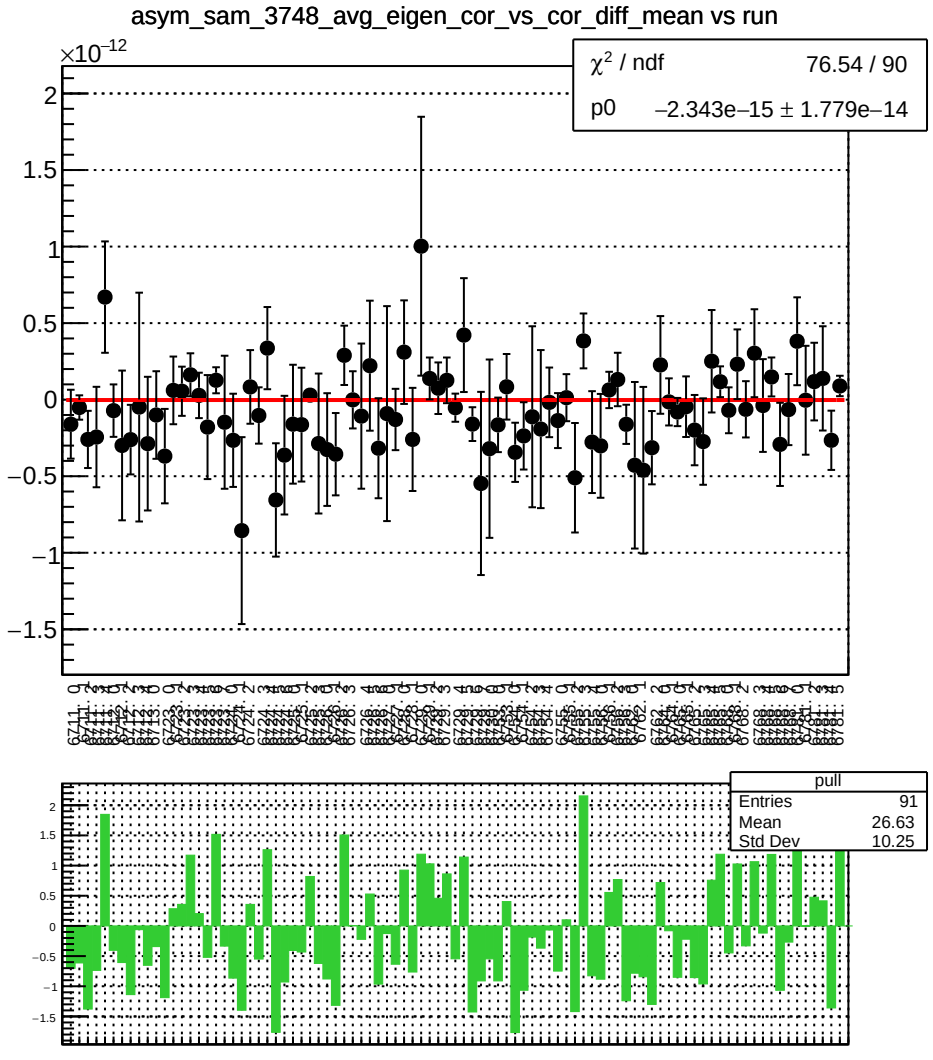

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.74e+04 / 90
p0 0.001987 ± 1.512e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

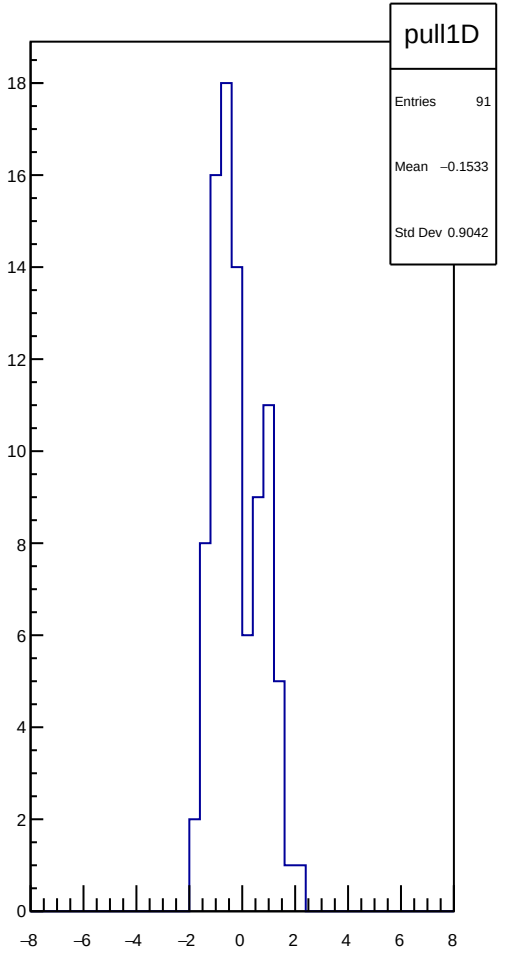

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.5 / 90
p0 −0.05063 ± 0.07682
pull
Entries 91
Mean 71.94
Std Dev 20.88
pull1D
Entries 91
Mean 0.02854
Std Dev 1.024

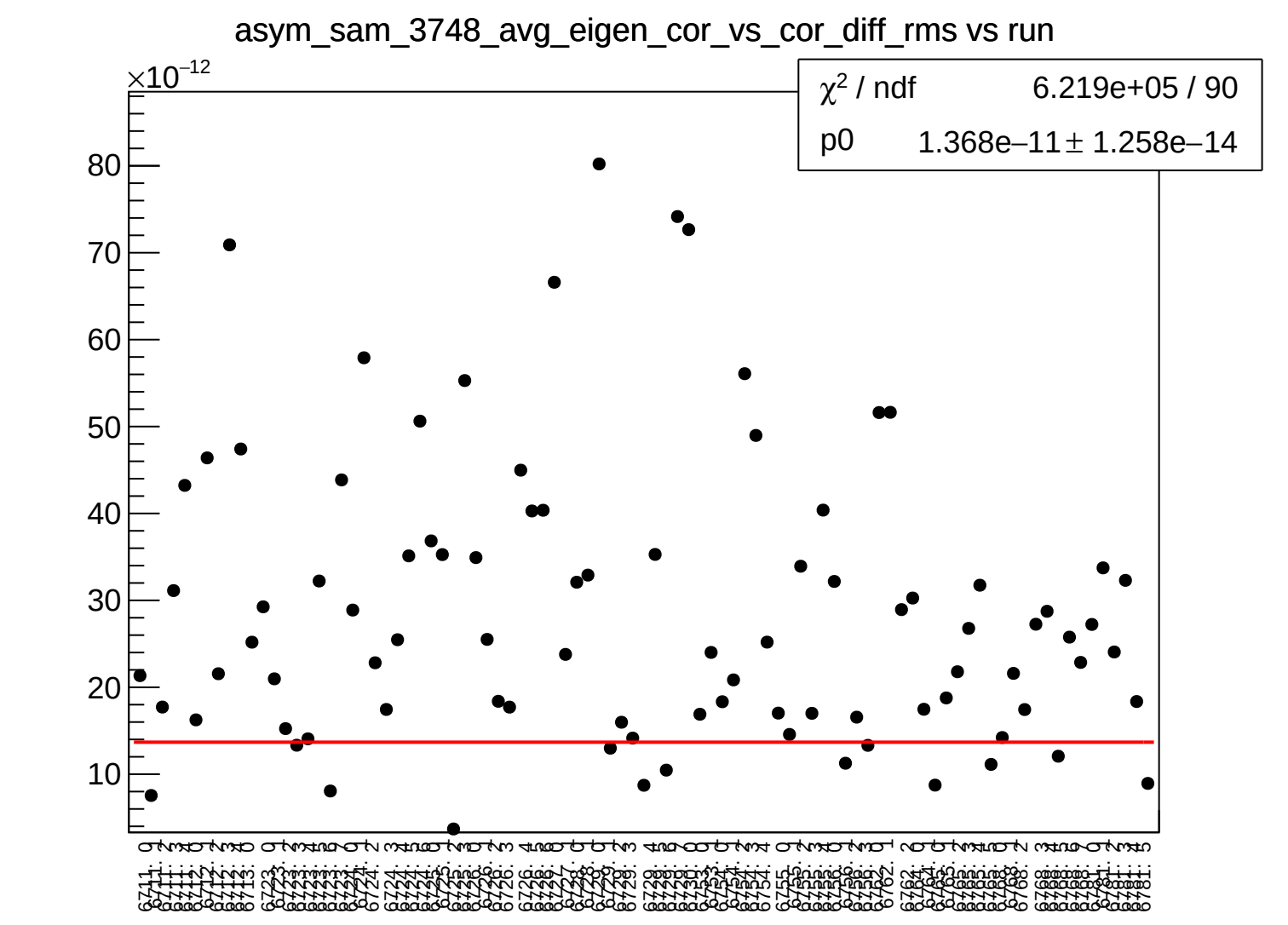

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.785e+05 / 90
p0 67.1 ± 0.05432
200
180
160
140
120
100
80
60
40

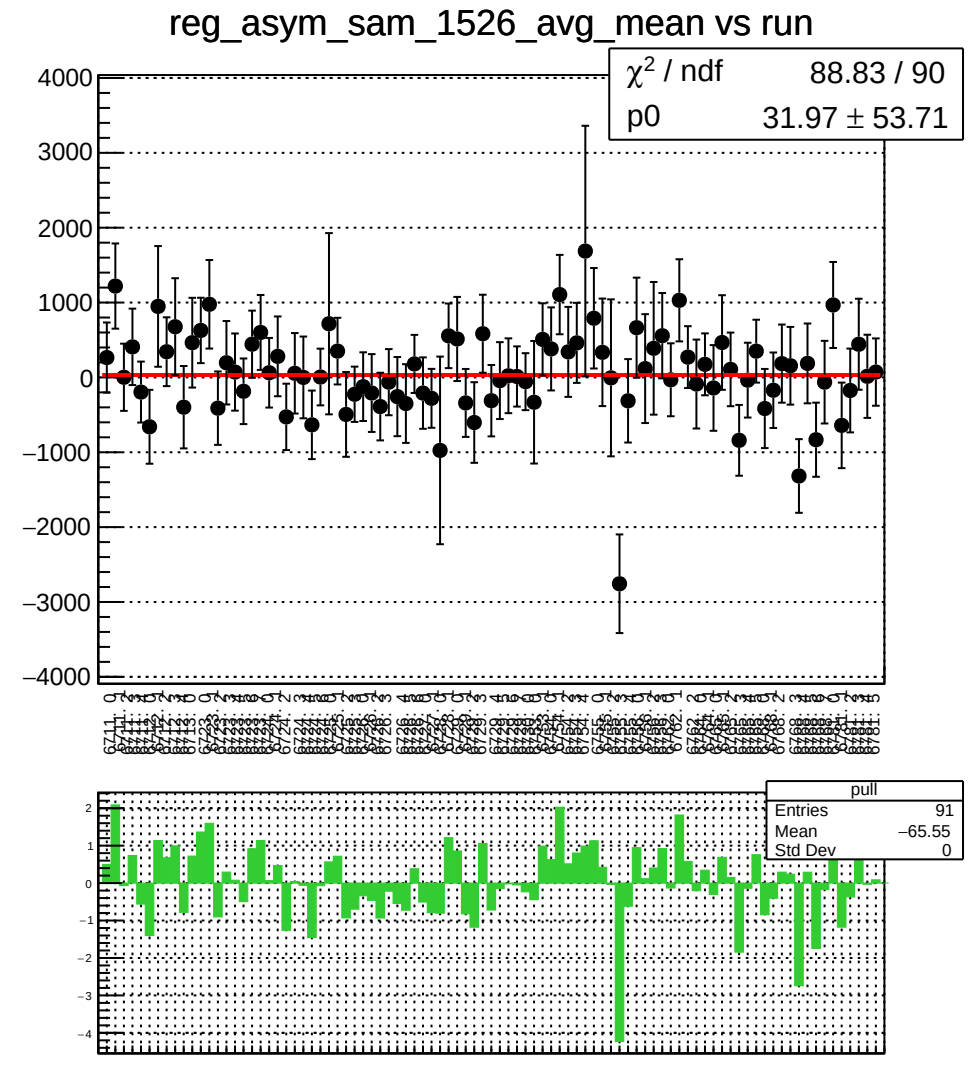

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.5 / 90
p0 −0.05063 ± 0.07682
pull
Entries 91
Mean 71.94
Std Dev 20.88
pull1D
Entries 91
Mean 0.02854
Std Dev 1.024

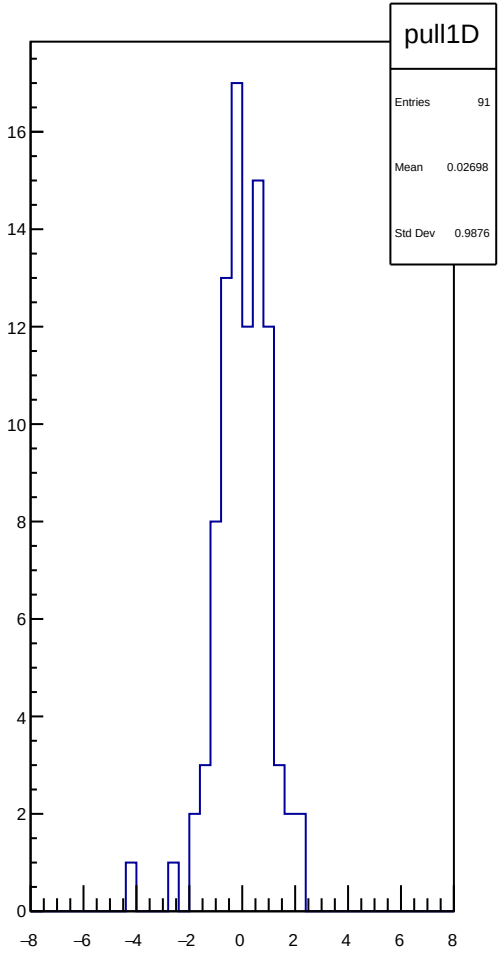

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.785e+05 / 90
p0 67.1 ± 0.05432
200
180
160
140
120
100
80
60
40

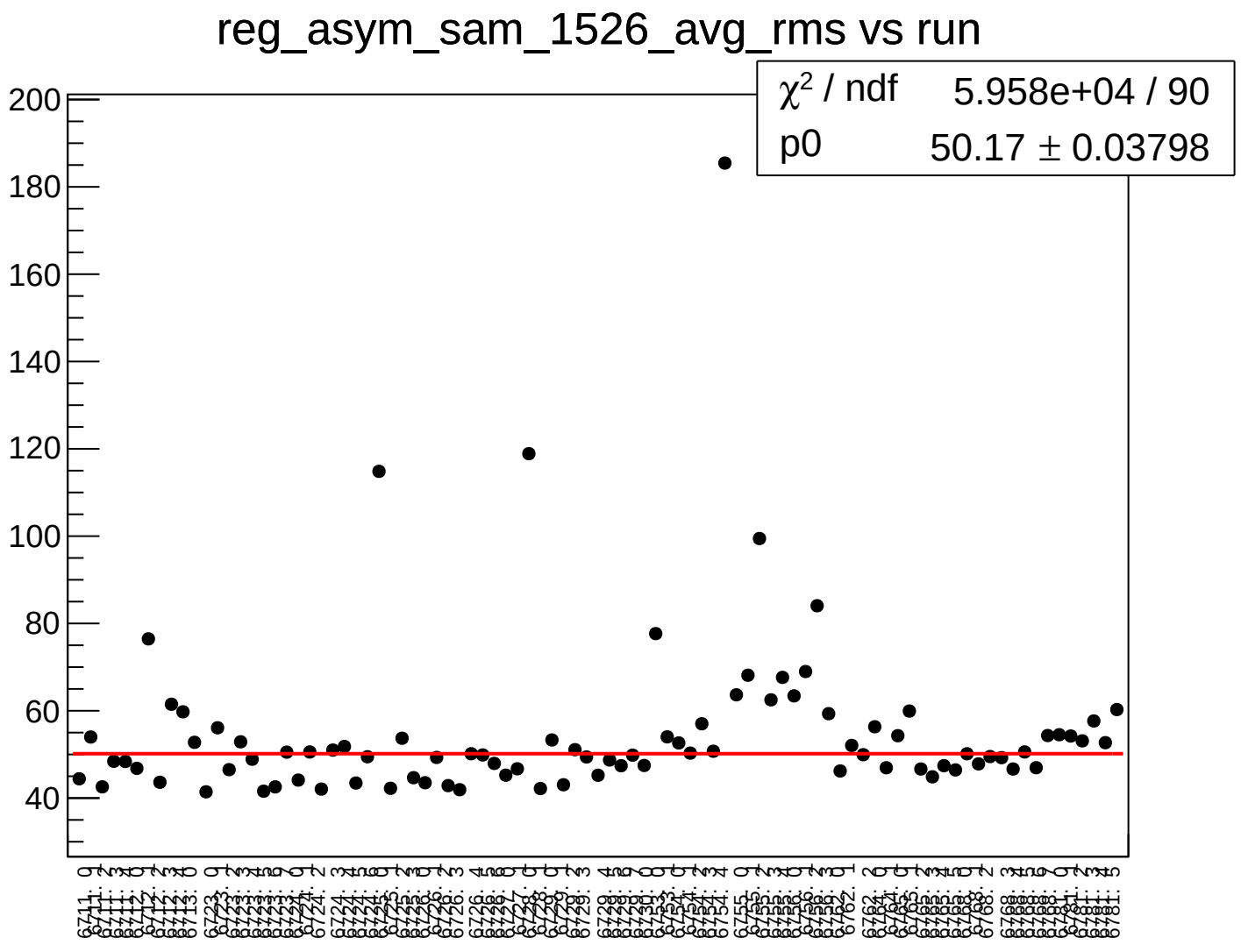

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.54 / 90
p0 −2.343e−15 ± 1.779e−14
pull
Entries 91
Mean 26.63
Std Dev 10.25

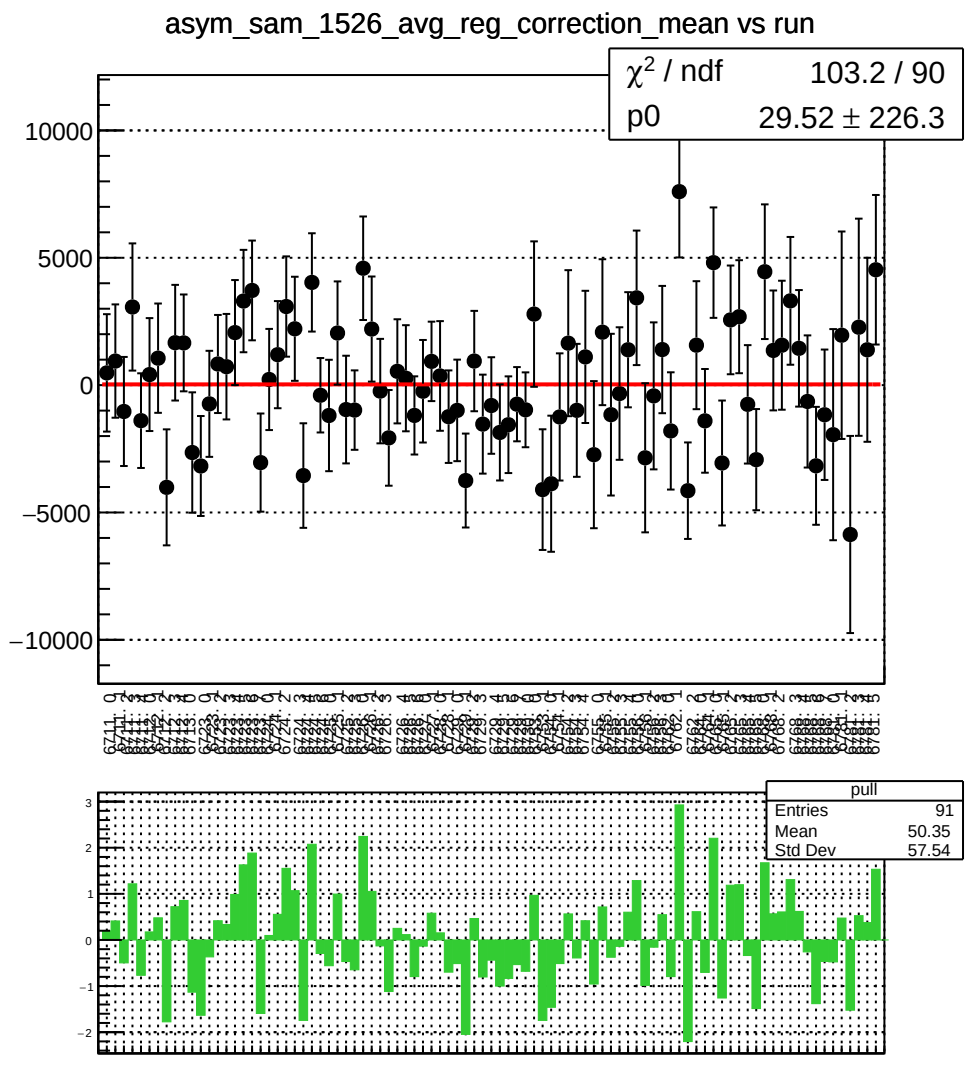

pull1D
Entries 91
Mean −0.1533
Std Dev 0.9042

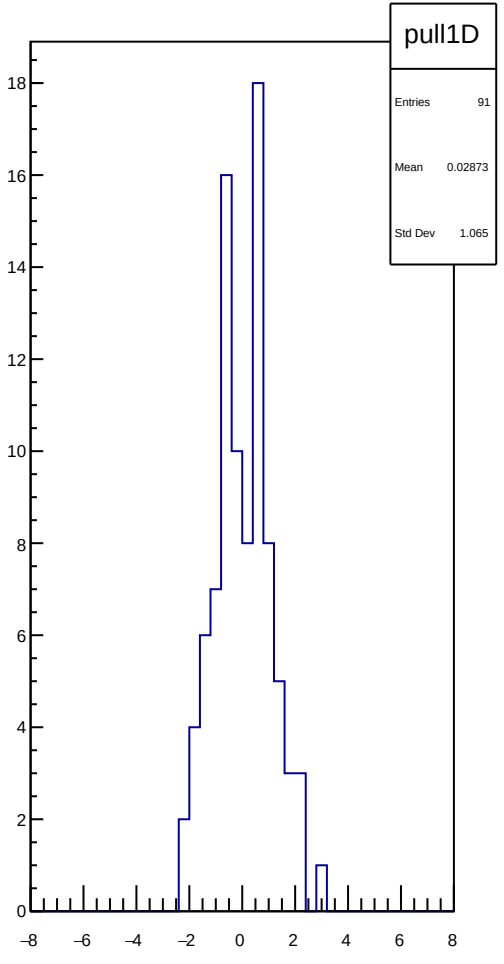

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.219e+05 / 90
p0 1.368e−11 ± 1.258e−14
80
70
60
50
40
30
20
10

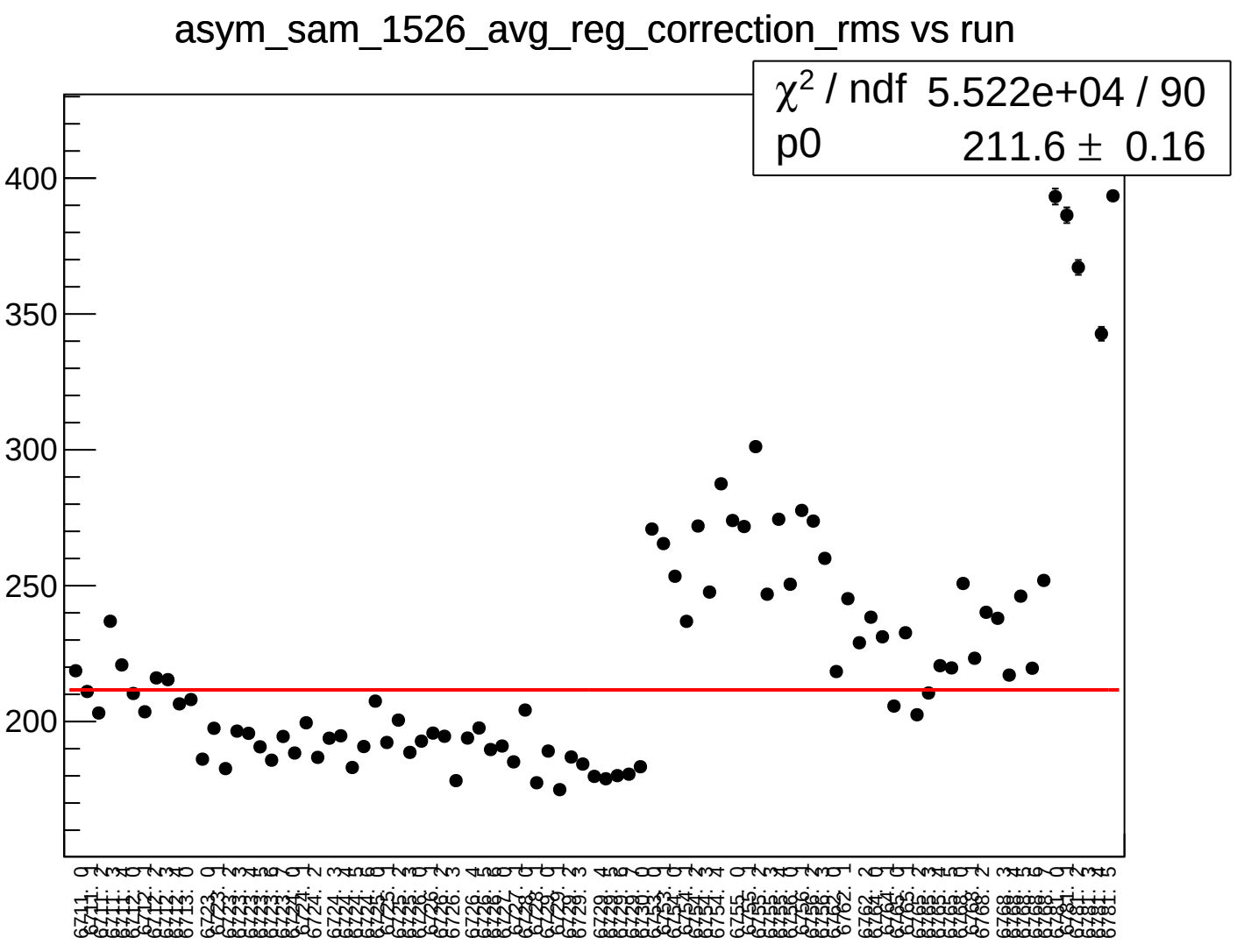

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 88.83 / 90
p0 31.97 ± 53.71
pull
Entries 91
Mean −65.55
Std Dev 0

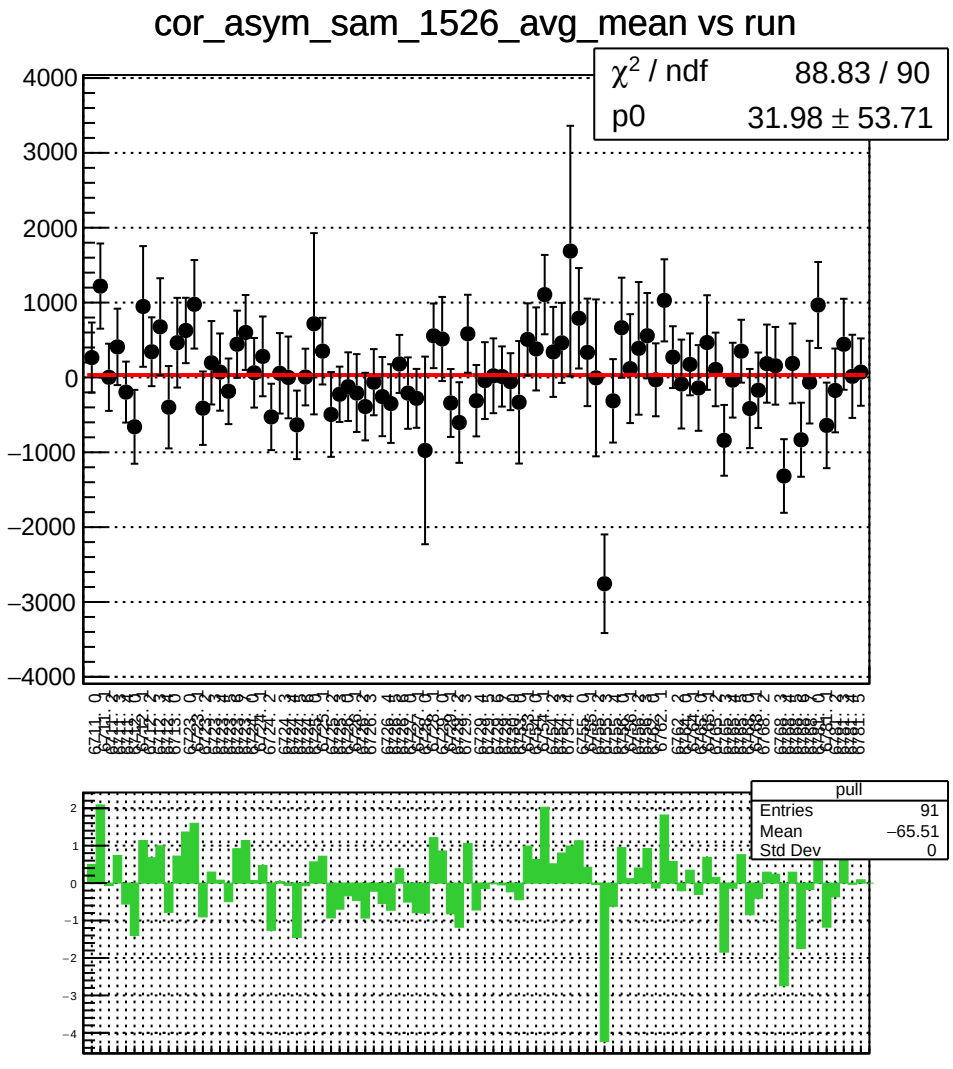

pull1D
Entries 91
Mean 0.02698
Std Dev 0.9876

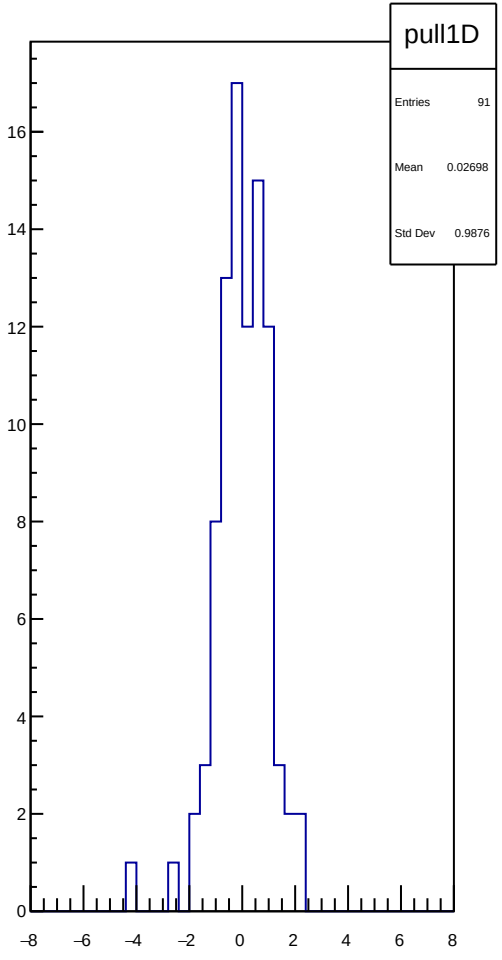

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 5.958e+04 / 90
p0 50.17 ± 0.03798
200
180
160
140
120
100
80
60
40

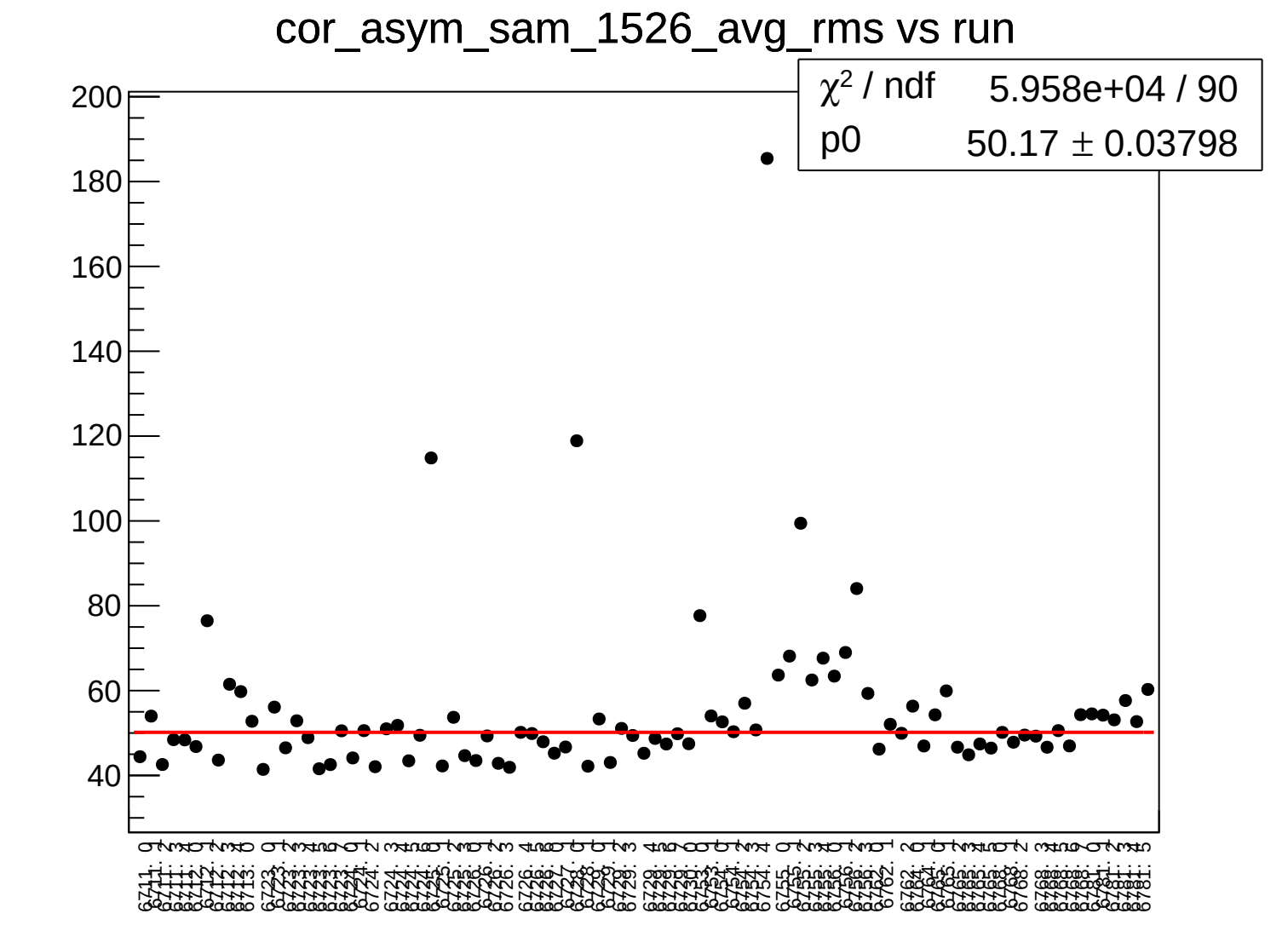

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 103.2 / 90
p0 29.52 ± 226.3
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 50.35
Std Dev 57.54
3
2
1
0
−1
−2

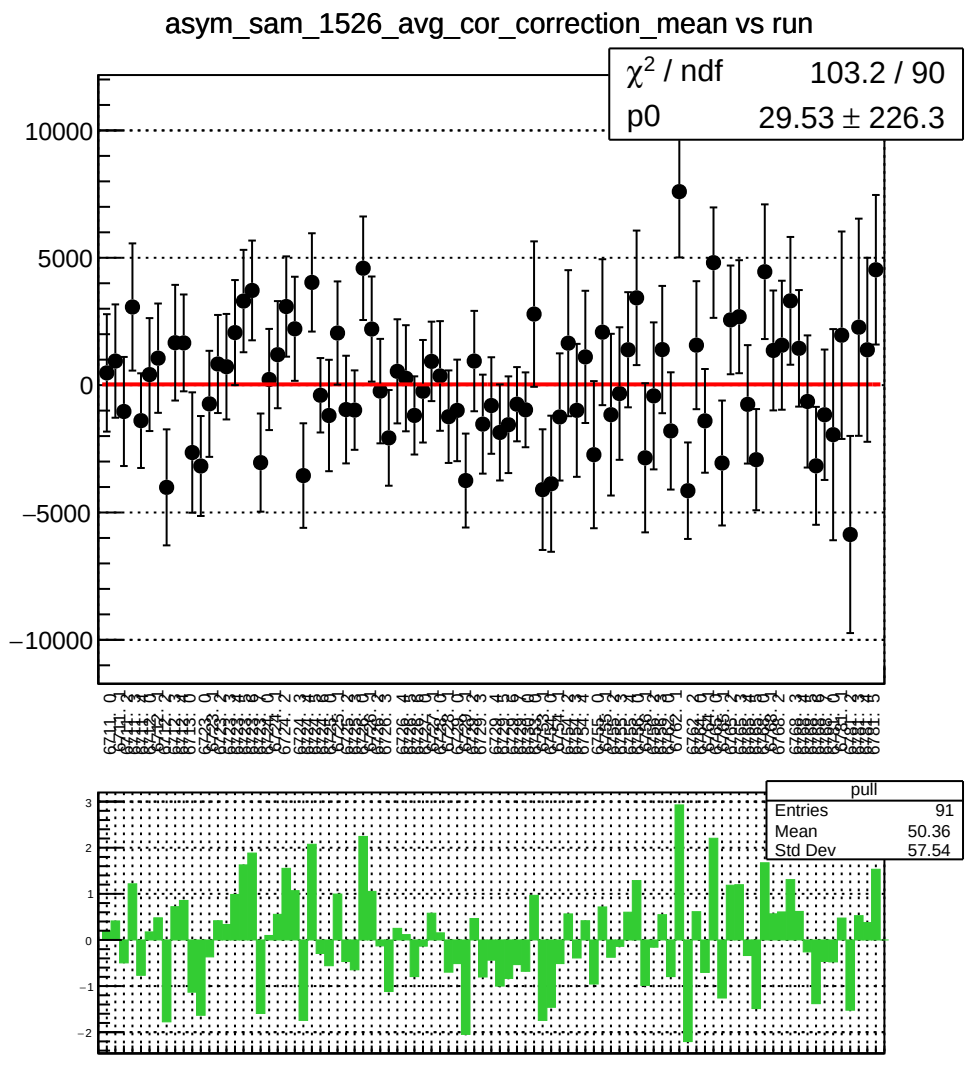

pull1D
Entries 91
Mean 0.02873
Std Dev 1.065
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

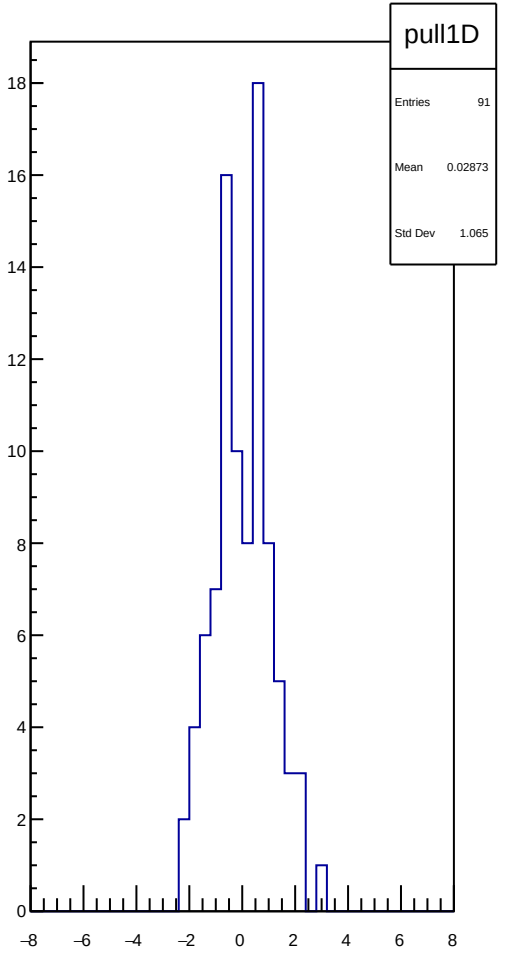

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 5.522e+04 / 90
p0 211.6 ± 0.16
400
350
300
250
200

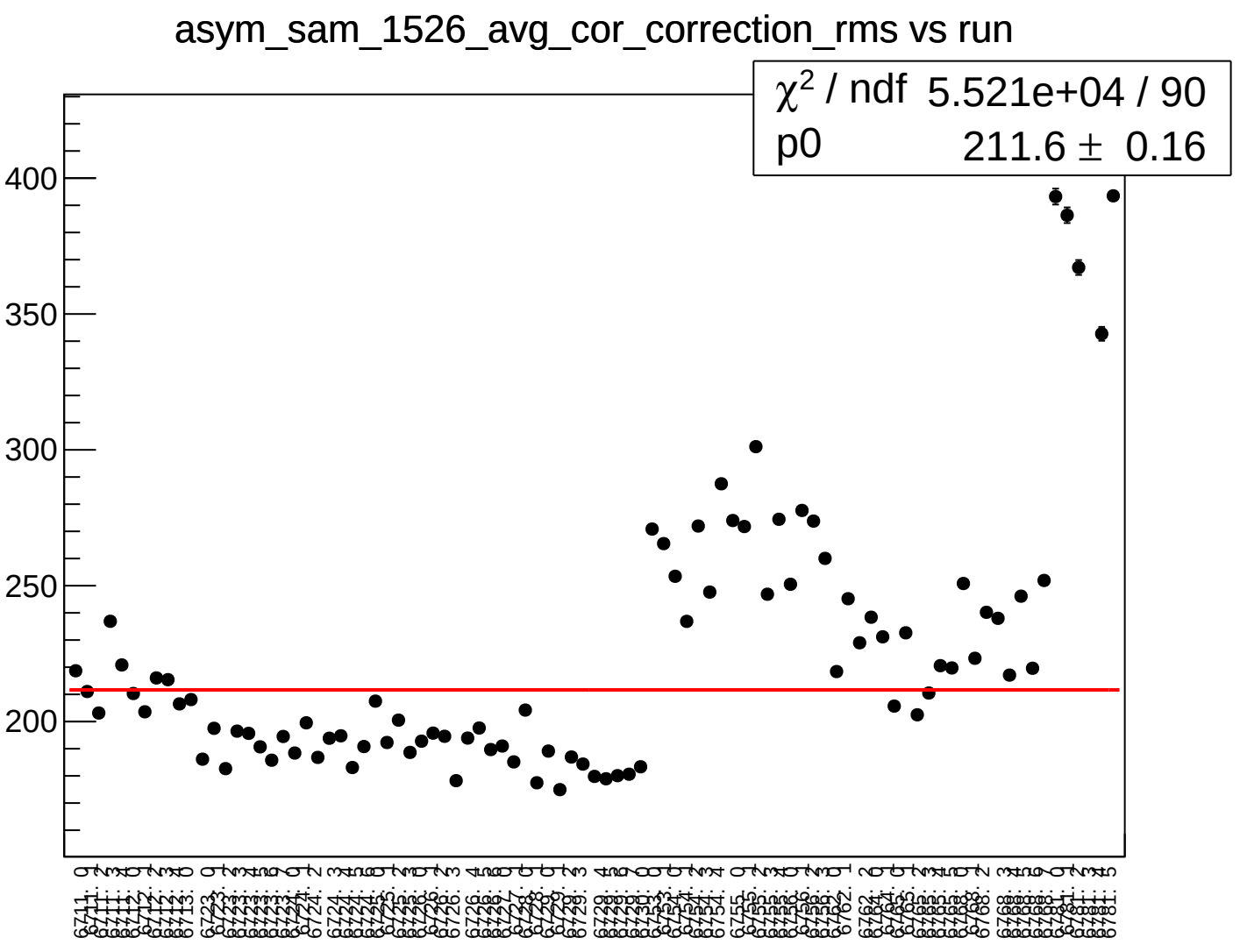

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 88.83 / 90
p0 31.98 ± 53.71
pull
Entries 91
Mean −65.51
Std Dev 0

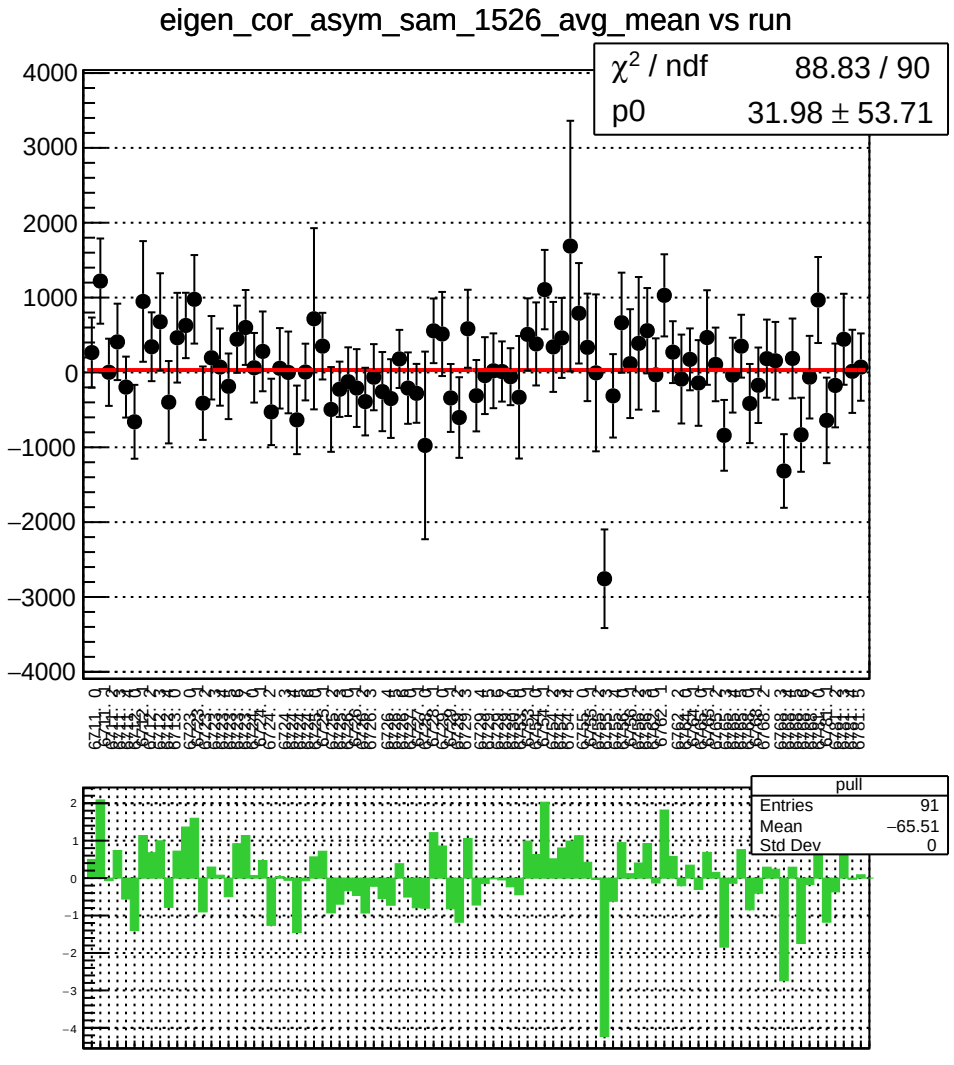

pull1D
Entries 91
Mean 0.02698
Std Dev 0.9876

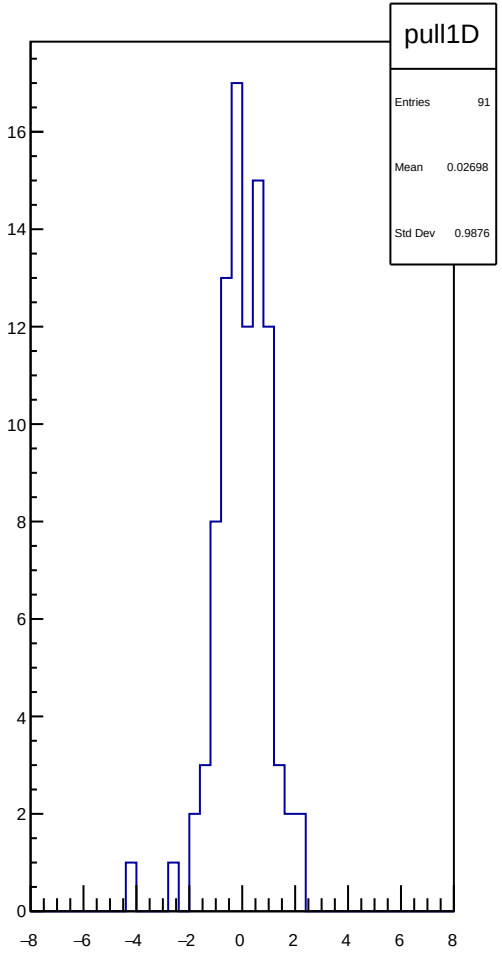

cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 5.958e+04 / 90
p0 50.17 ± 0.03798
200
180
160
140
120
100
80
60
40

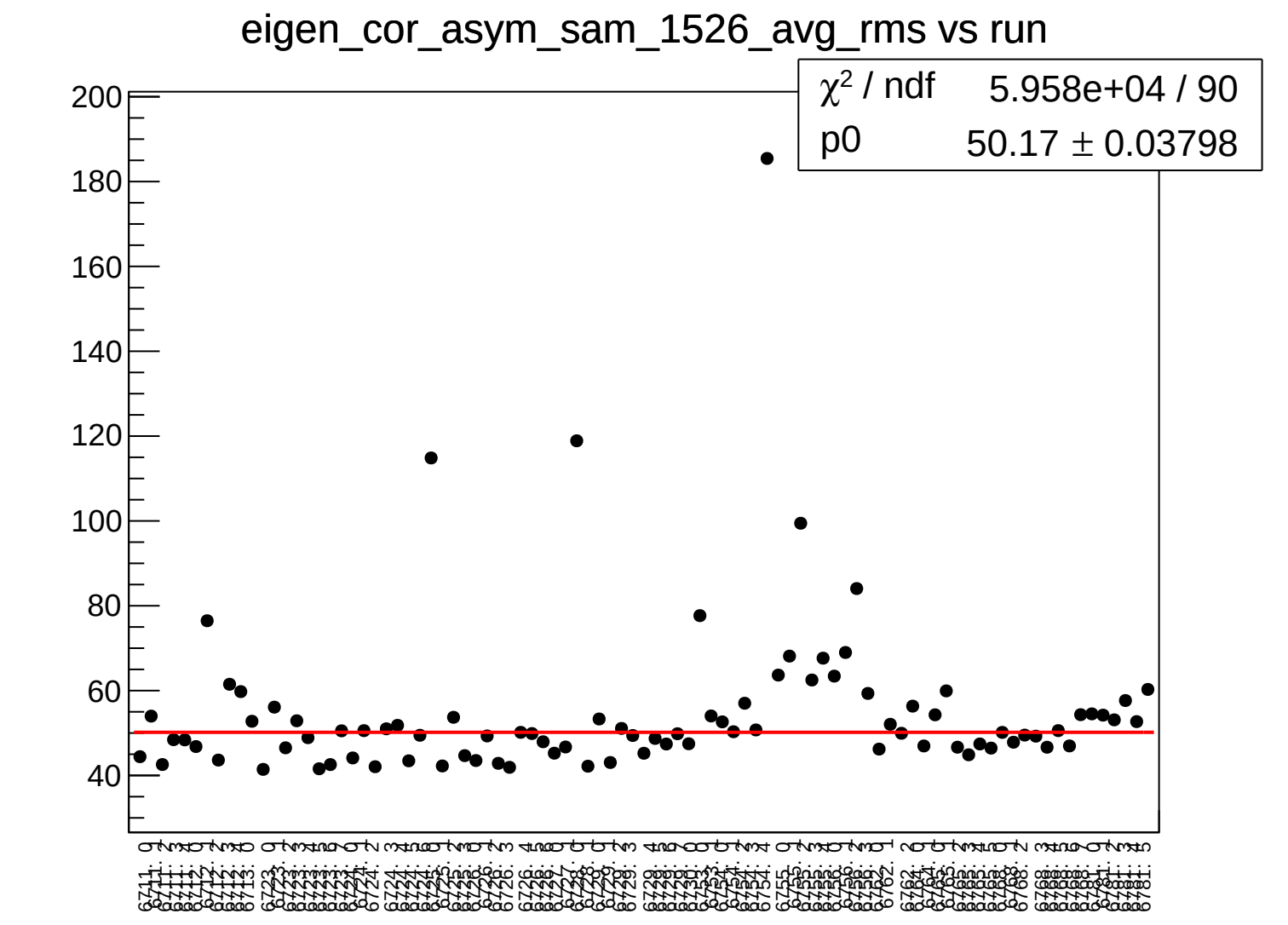

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 103.2 / 90
p0 29.53 ± 226.3
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 50.36
Std Dev 57.54
3
2
1
0
−1
−2

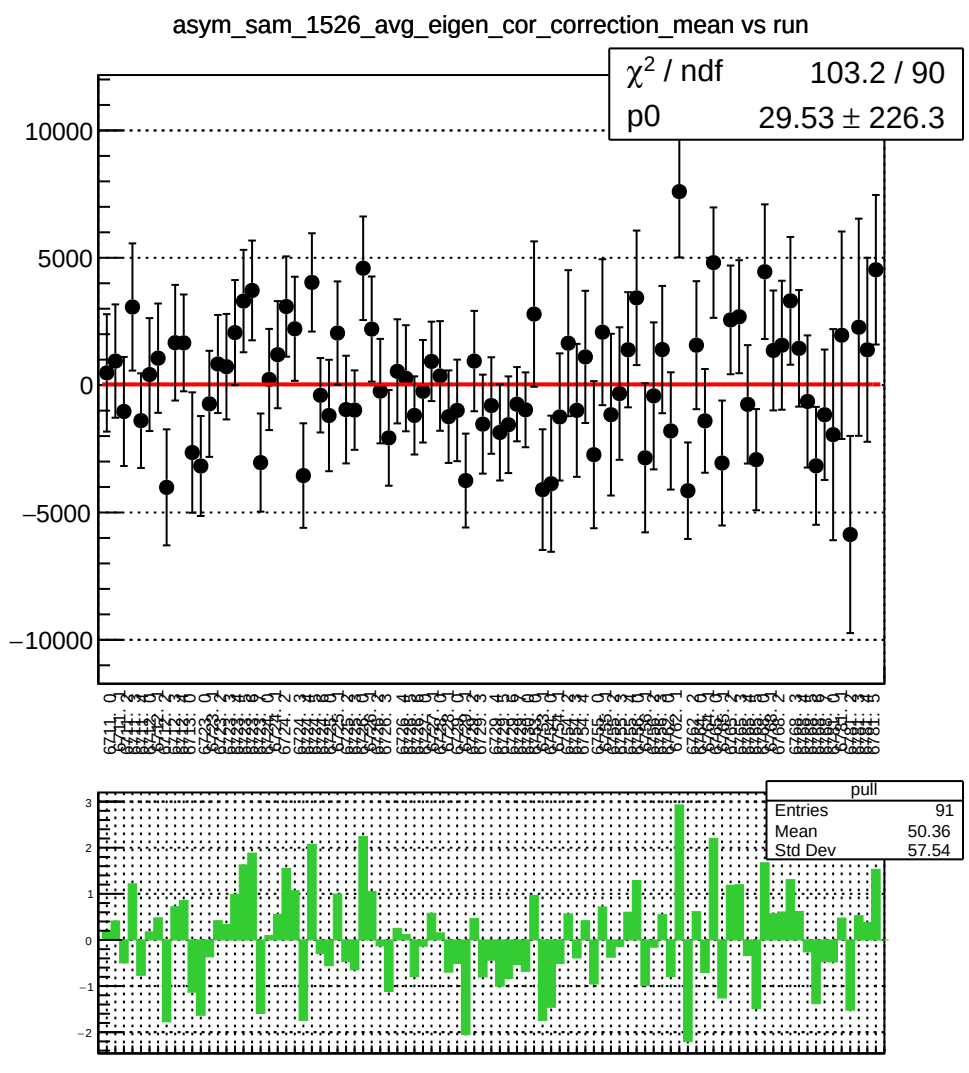

pull1D
Entries 91
Mean 0.02873
Std Dev 1.065
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

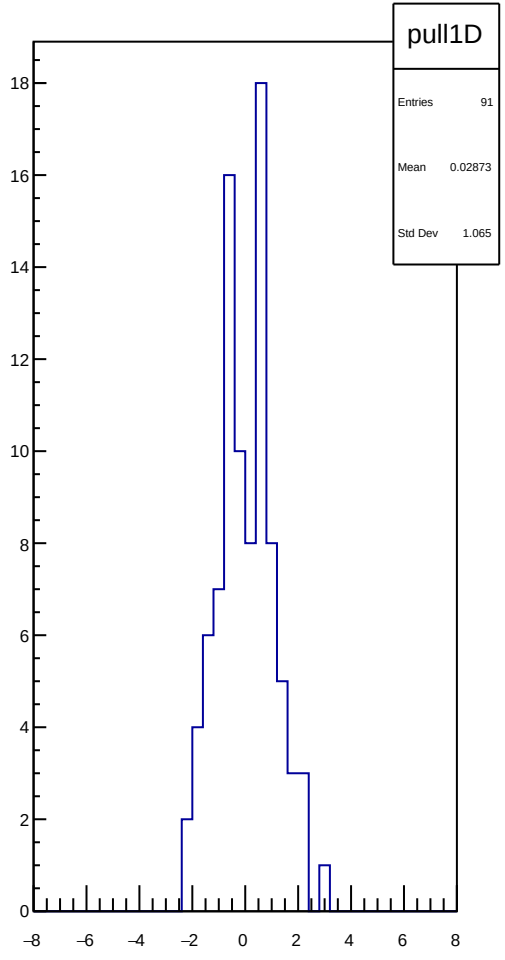

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 5.521e+04 / 90
p0 211.6 ± 0.16
400
350
300
250
200

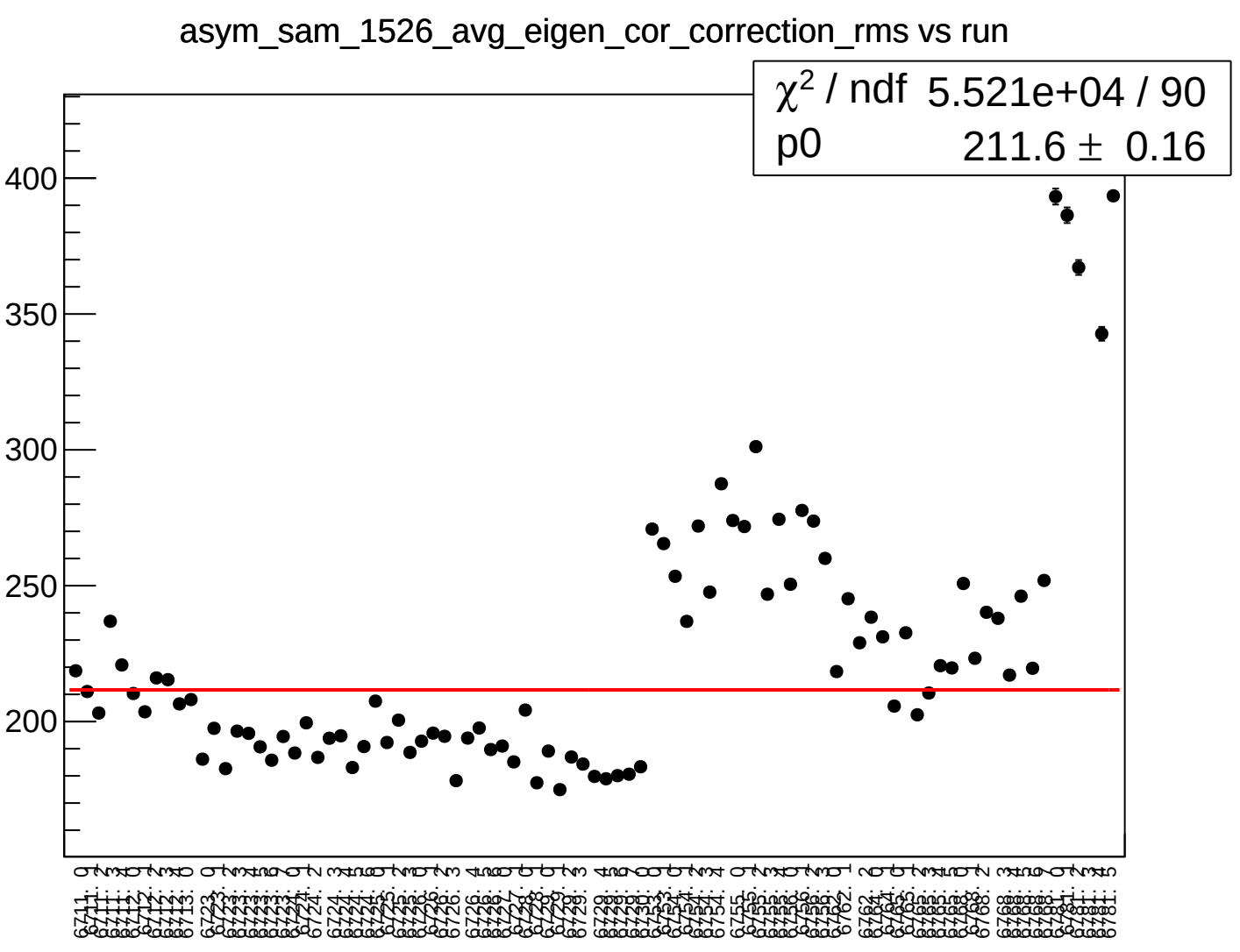

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 88.83 / 90
p0 31.98 ± 53.71
pull
Entries 91
Mean −65.51
Std Dev 0

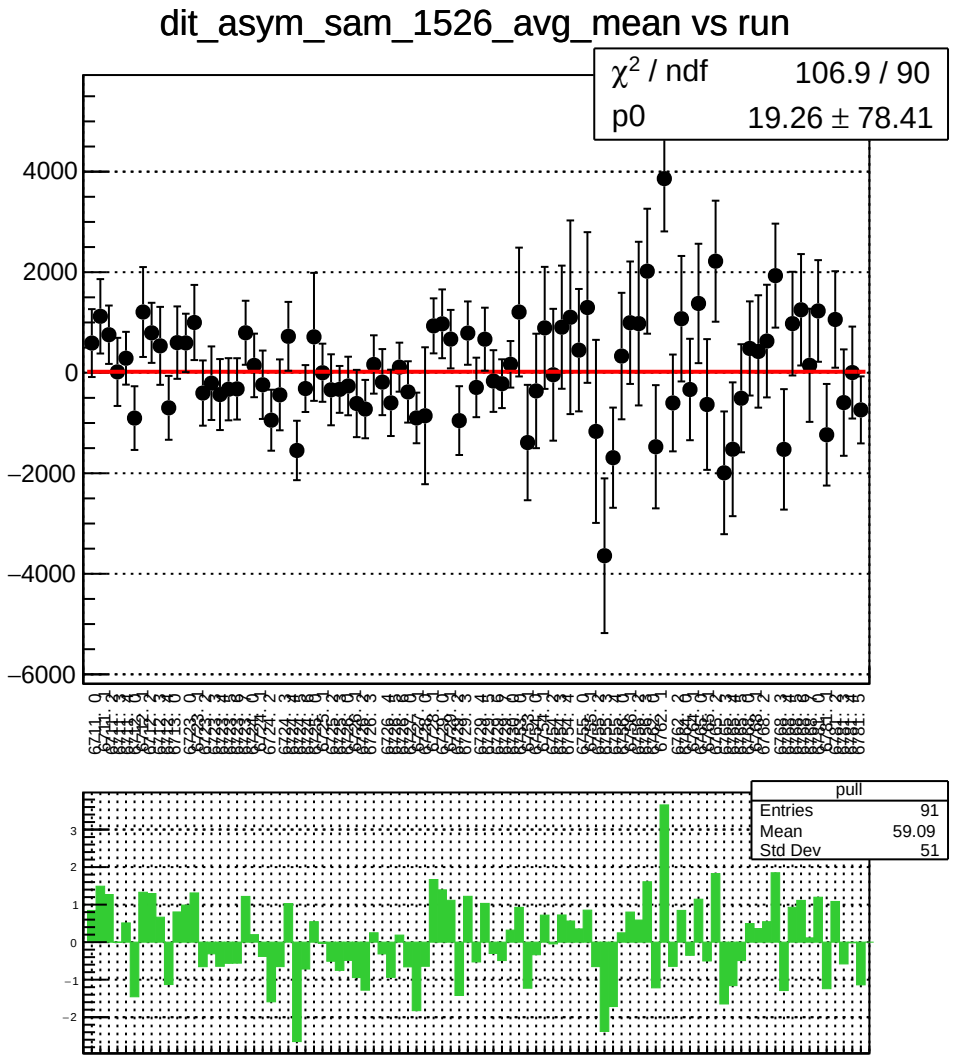

pull1D
Entries 91
Mean 0.02698
Std Dev 0.9876

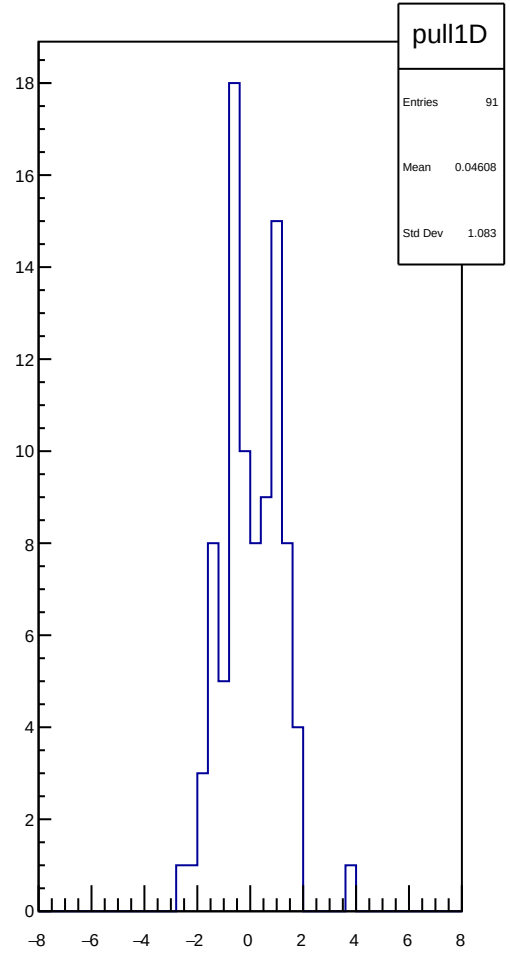

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 5.958e+04 / 90
p0 50.17 ± 0.03798
200
180
160
140
120
100
80
60
40

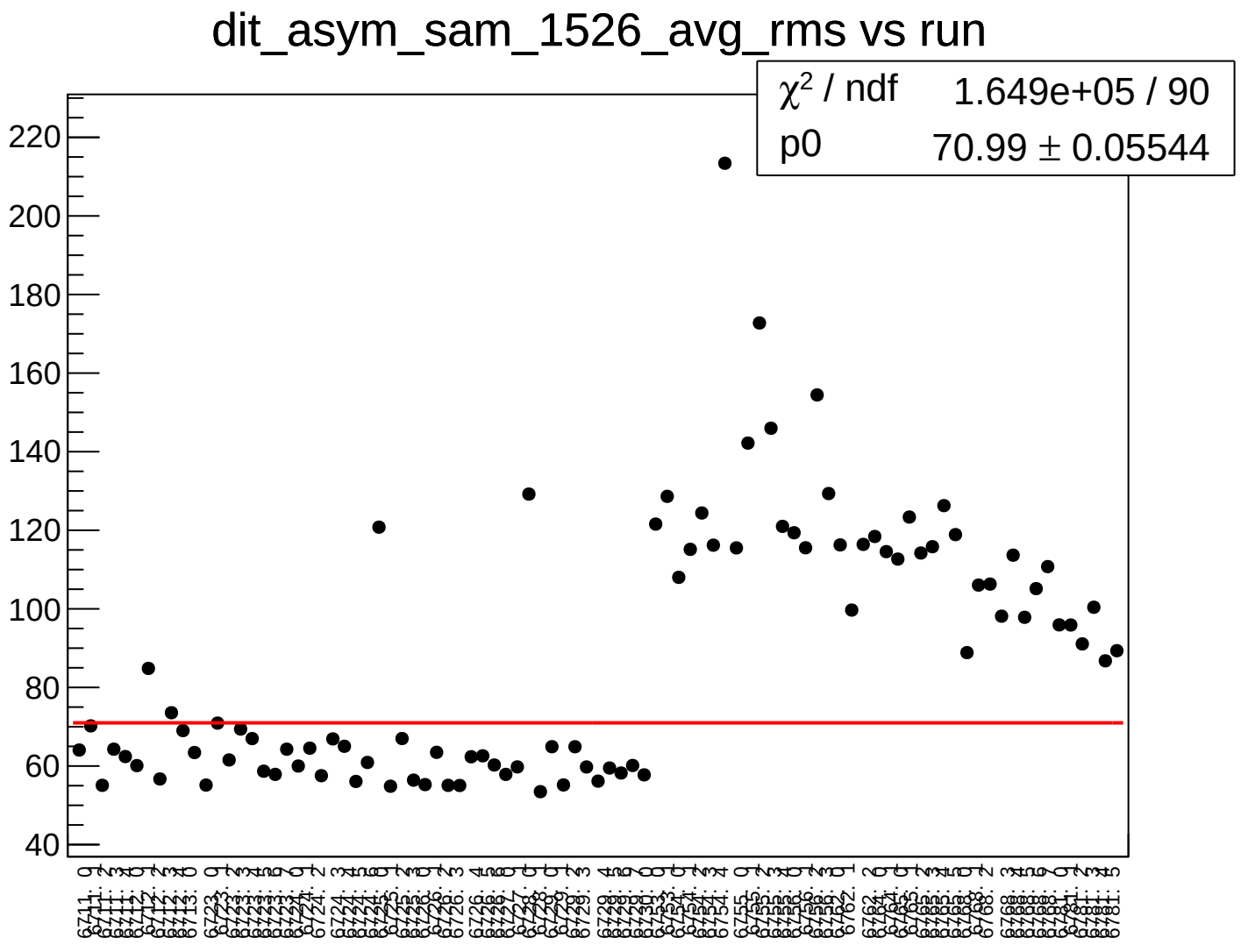

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 103.2 / 90
p0 29.53 ± 226.3
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 50.36
Std Dev 57.54
3
2
1
0
−1
−2

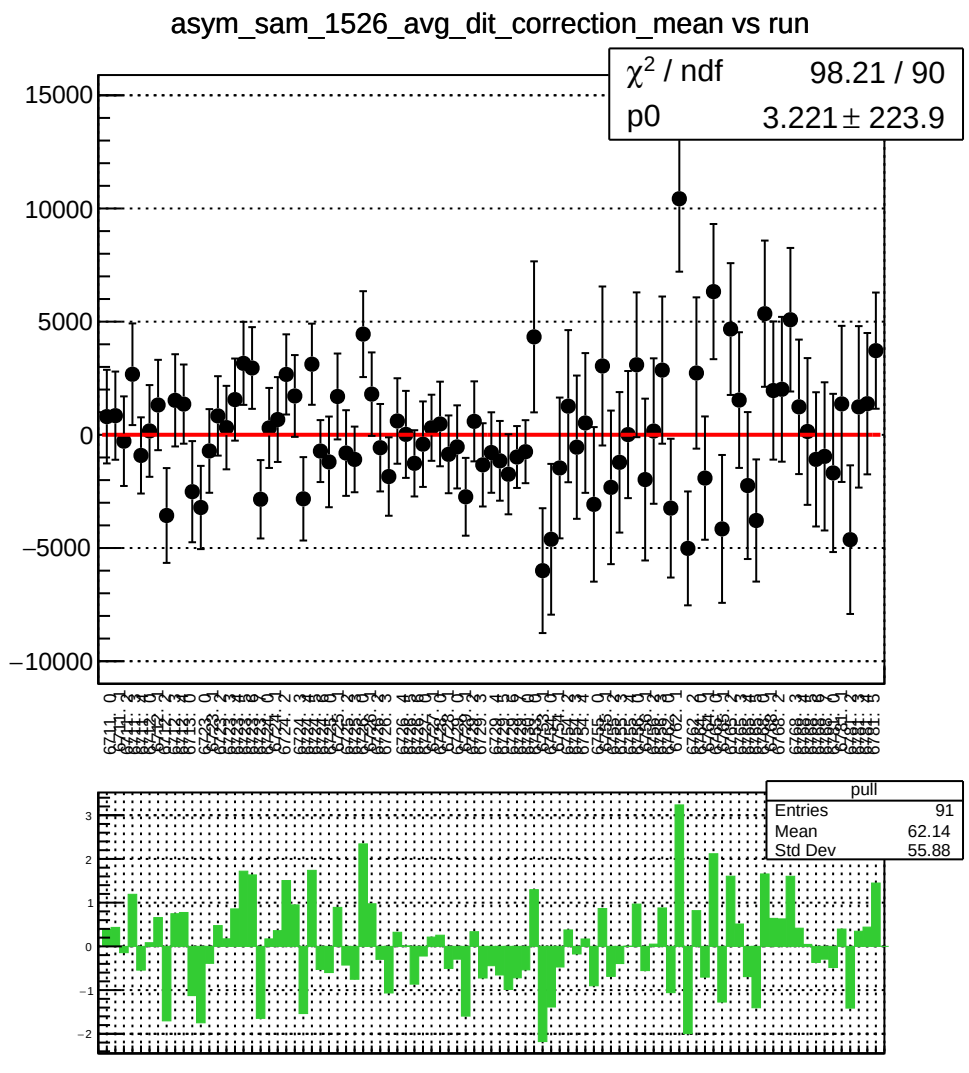

pull1D
Entries 91
Mean 0.02873
Std Dev 1.065
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

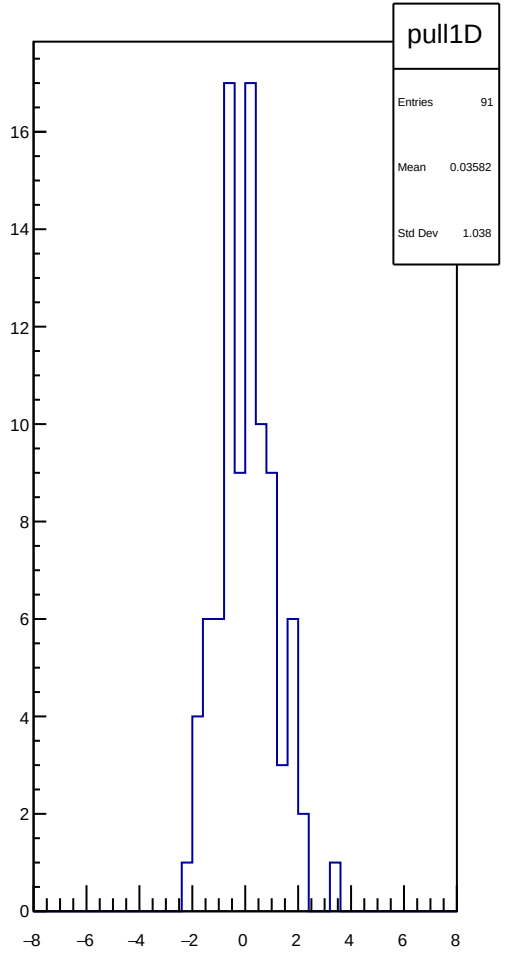

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.521e+04 / 90
p0 211.6 ± 0.16
400
350
300
250
200

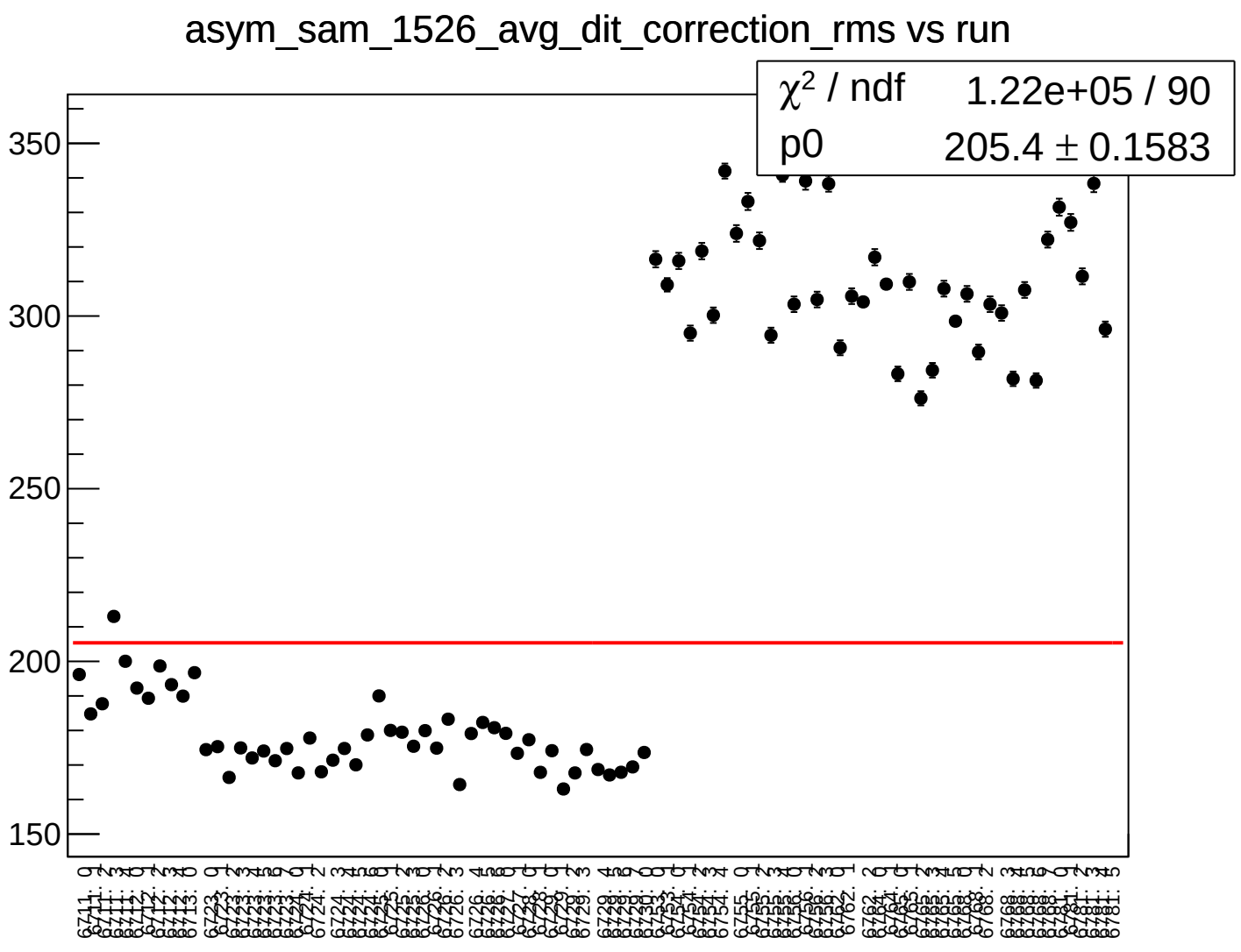

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 106.9 / 90
p0 19.26 ± 78.41
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 59.09
Std Dev 51
3
2
1
0
−1
−2

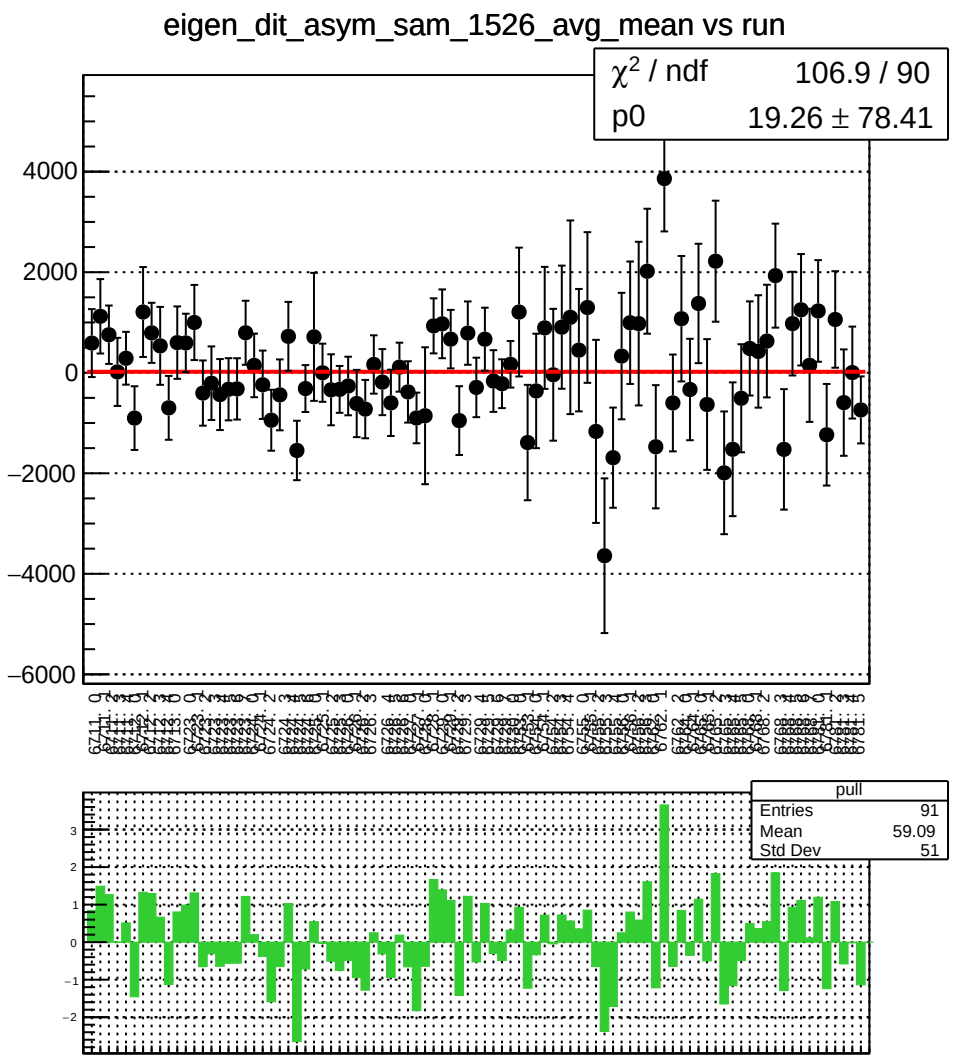

pull1D
Entries 91
Mean 0.04608
Std Dev 1.083
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

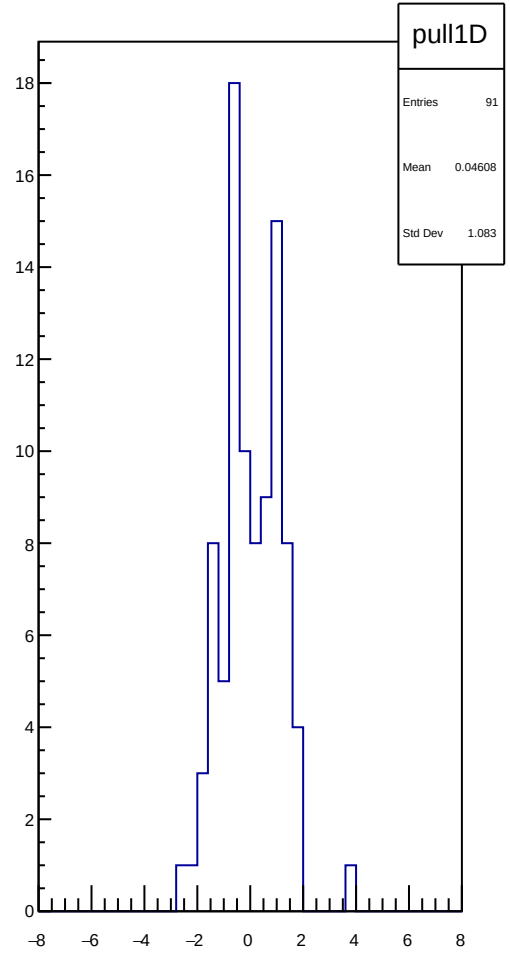

dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.649e+05 / 90
p0 70.99 ± 0.05544
220
200
180
160
140
120
100
80
60
40

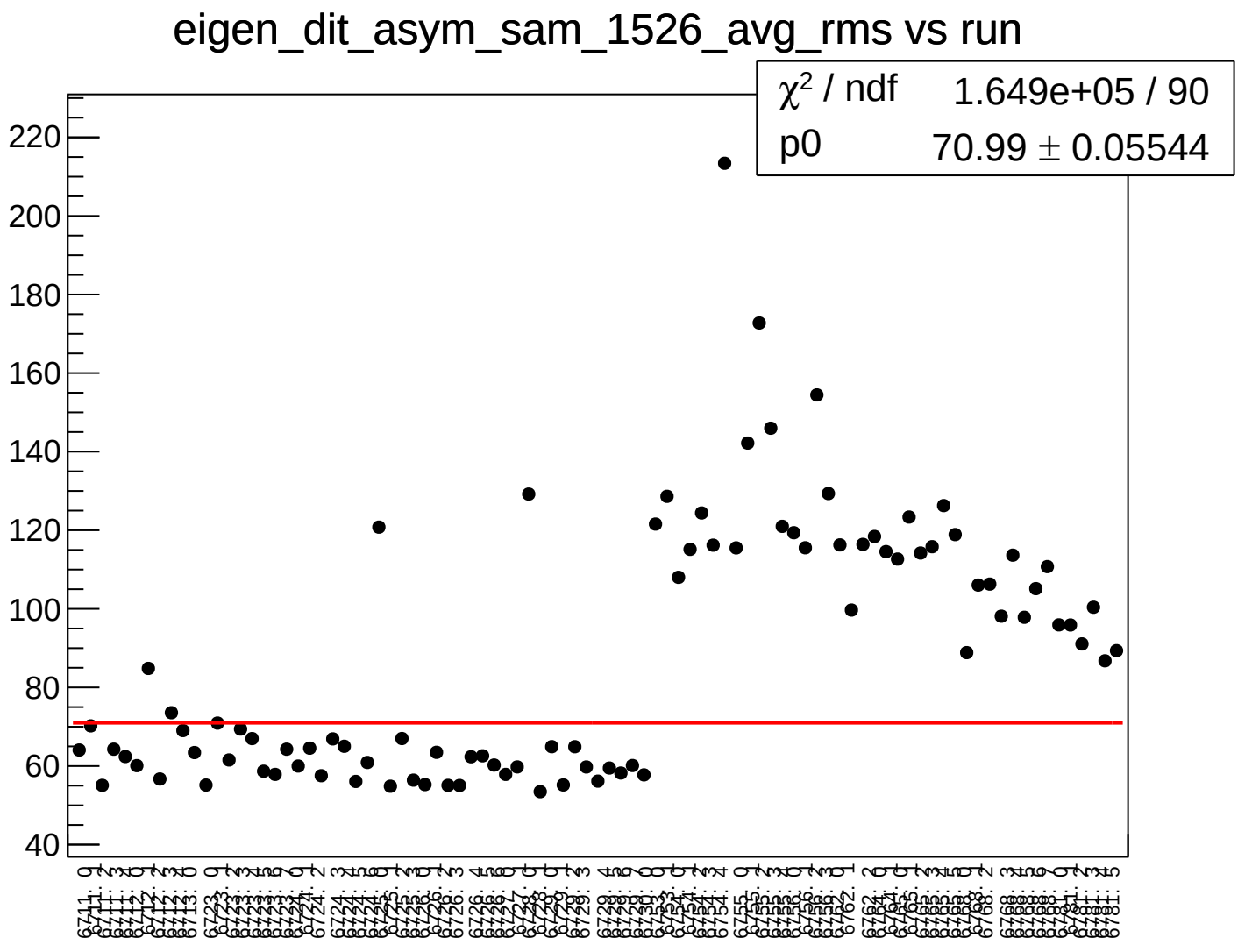

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 98.21 / 90
p0 3.221 ± 223.9
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 62.14
Std Dev 55.88
3
2
1
0
−1
−2

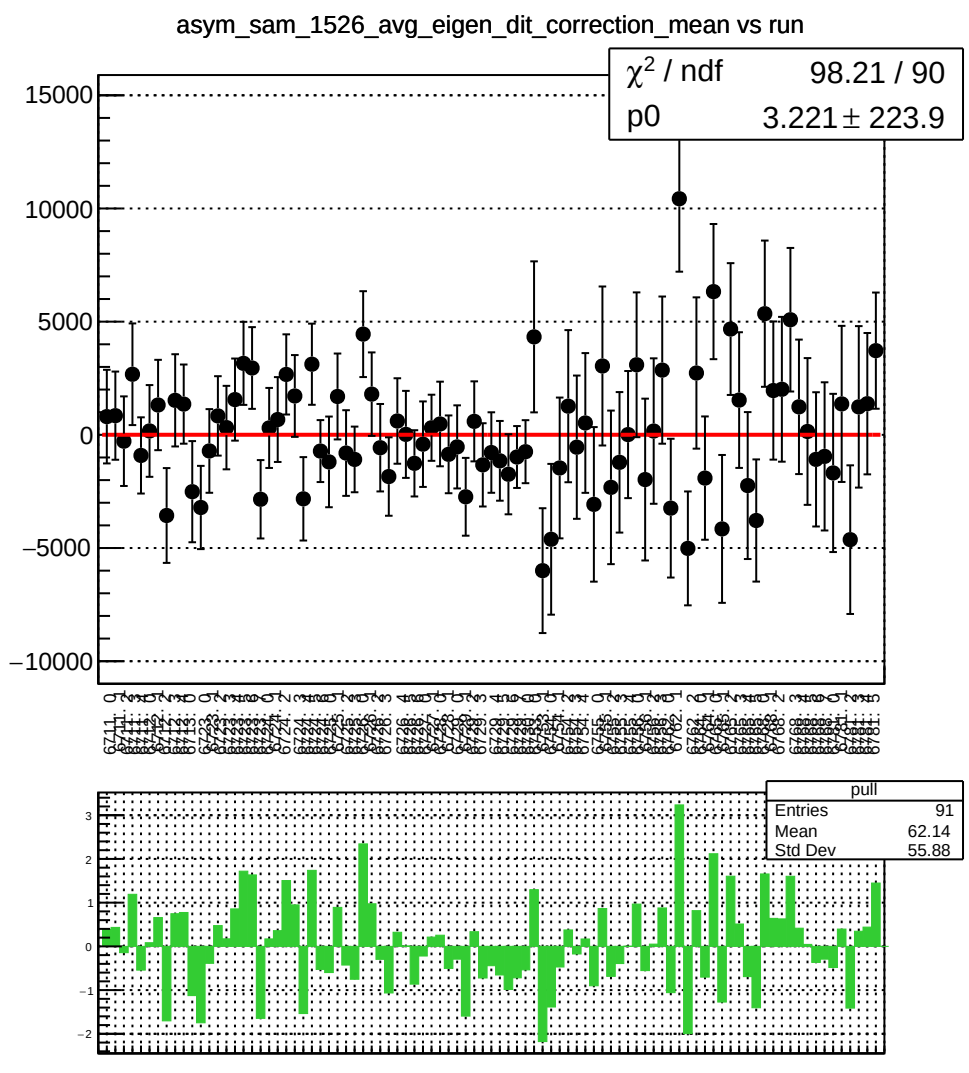

pull1D
Entries 91
Mean 0.03582
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

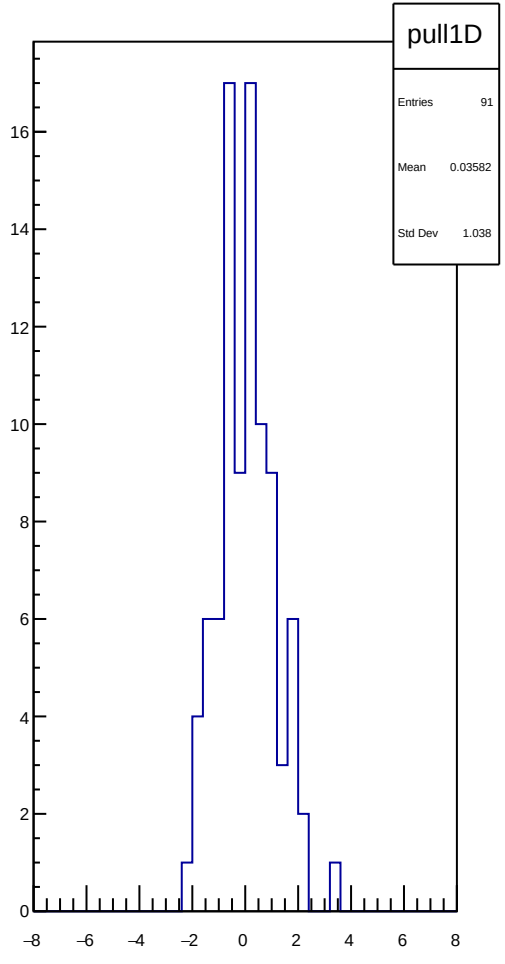

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 1.22e+05 / 90
p0 205.4 ± 0.1583
350
300
250
200
150

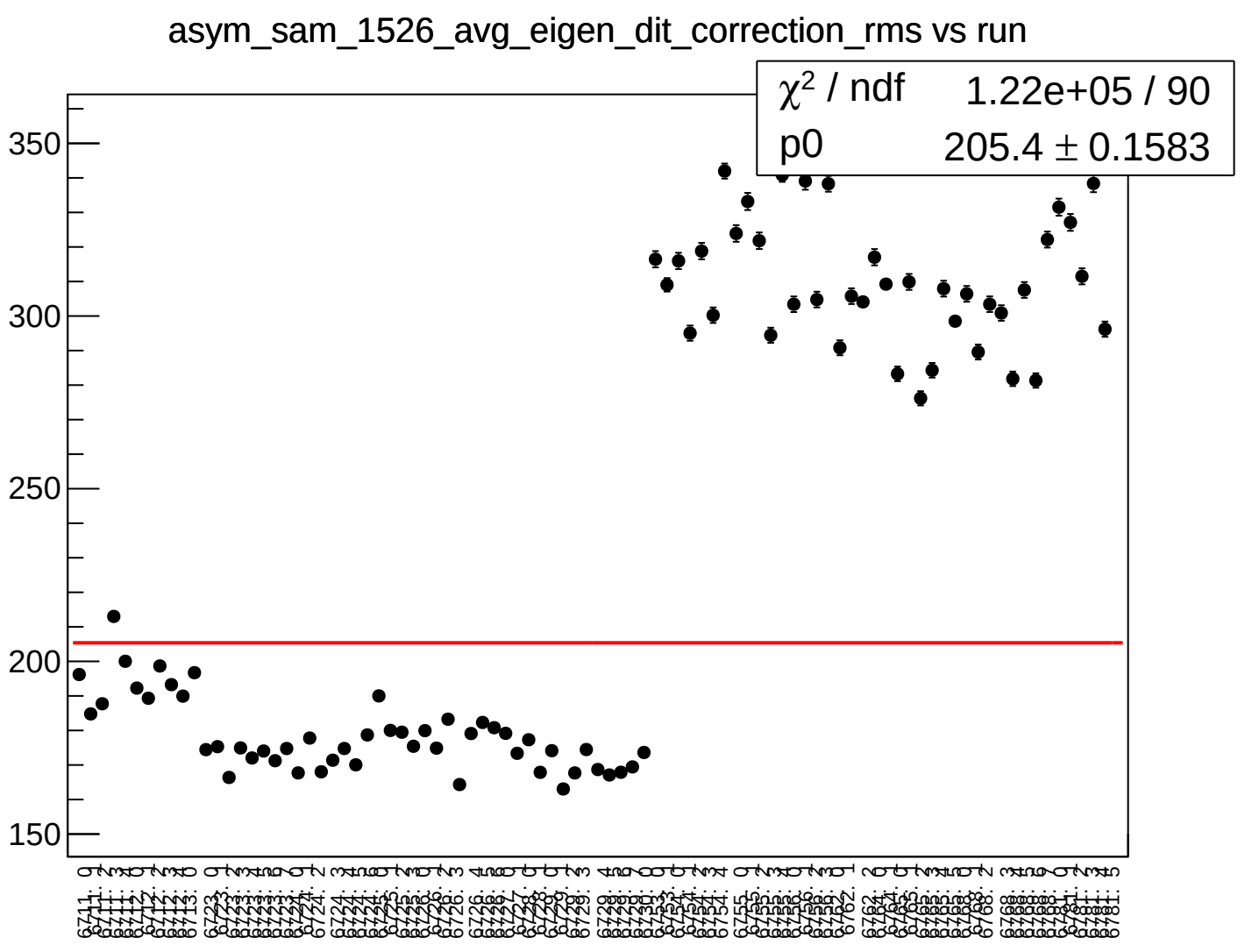

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 106.9 / 90
p0 19.26 ± 78.41
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 59.09
Std Dev 51
3
2
1
0
−1
−2

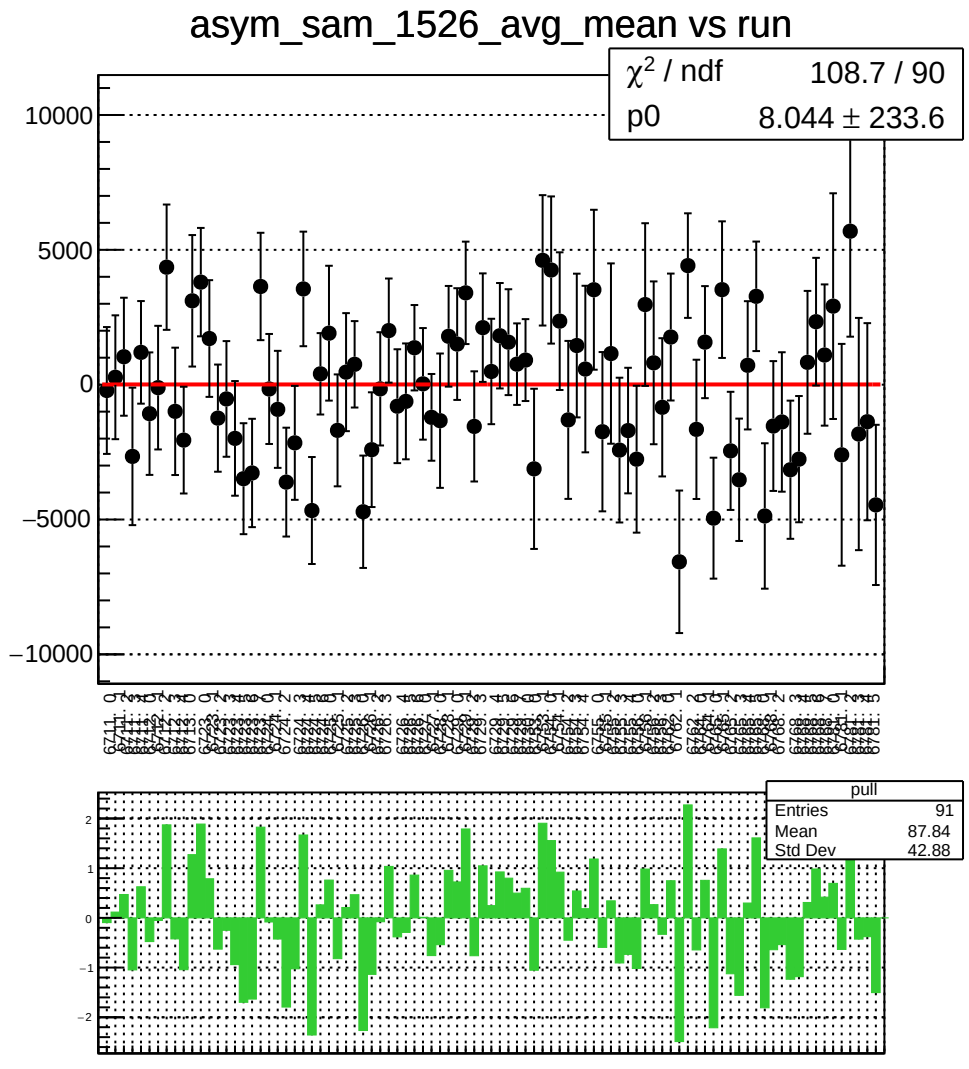

pull1D
Entries 91
Mean 0.04608
Std Dev 1.083
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

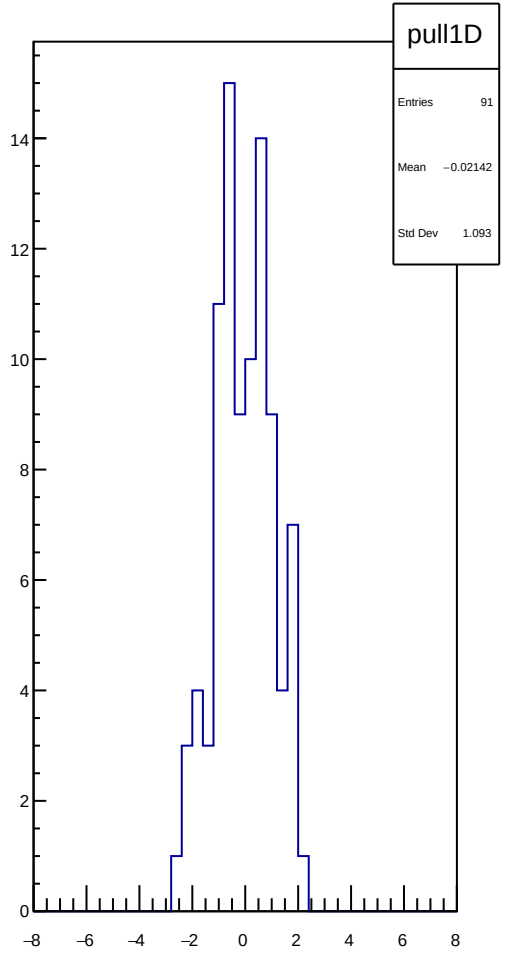

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.649e+05 / 90
p0 70.99 ± 0.05544
220
200
180
160
140
120
100
80
60
40

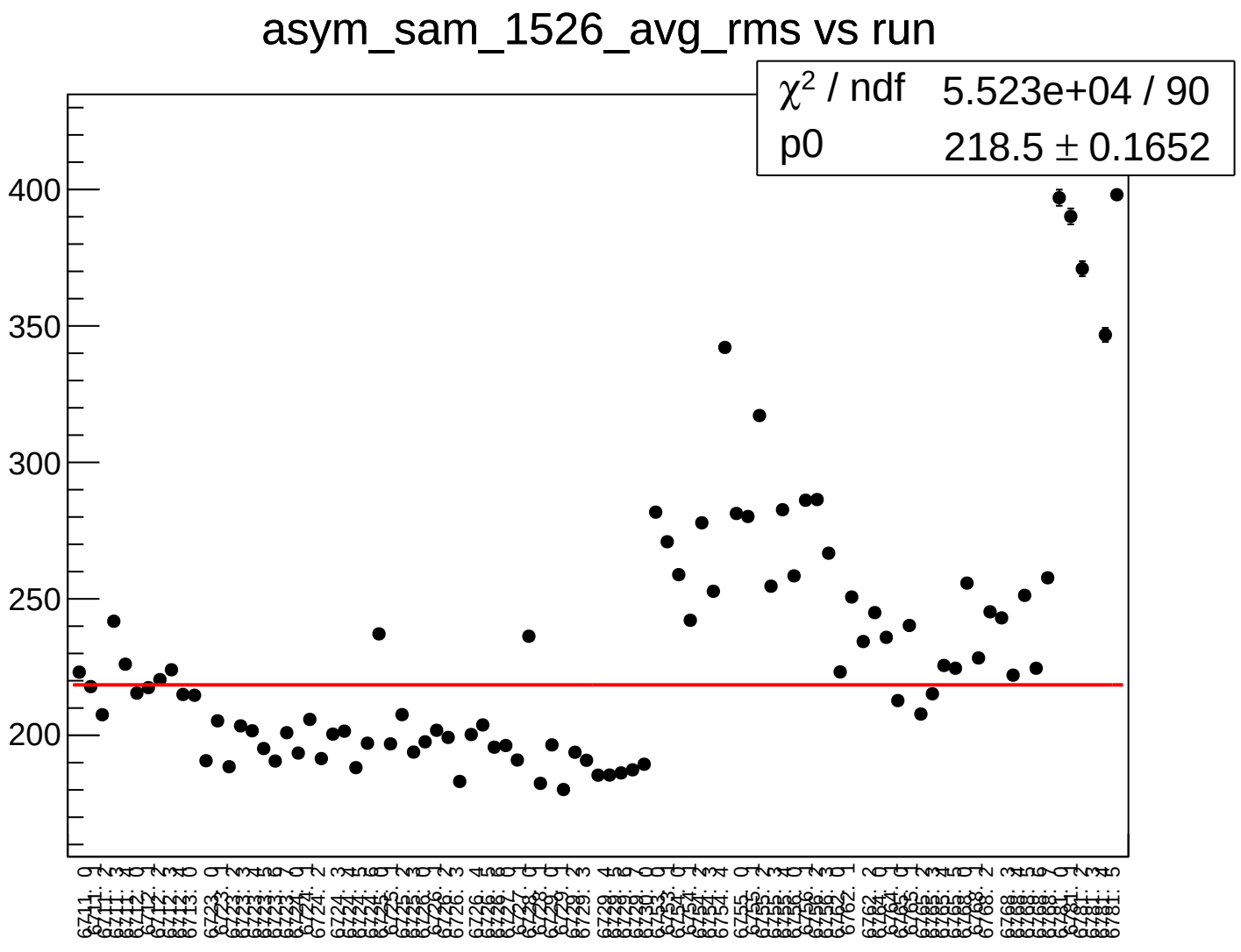

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.21 / 90
p0 3.221 ± 223.9
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 62.14
Std Dev 55.88
3
2
1
0
−1
−2

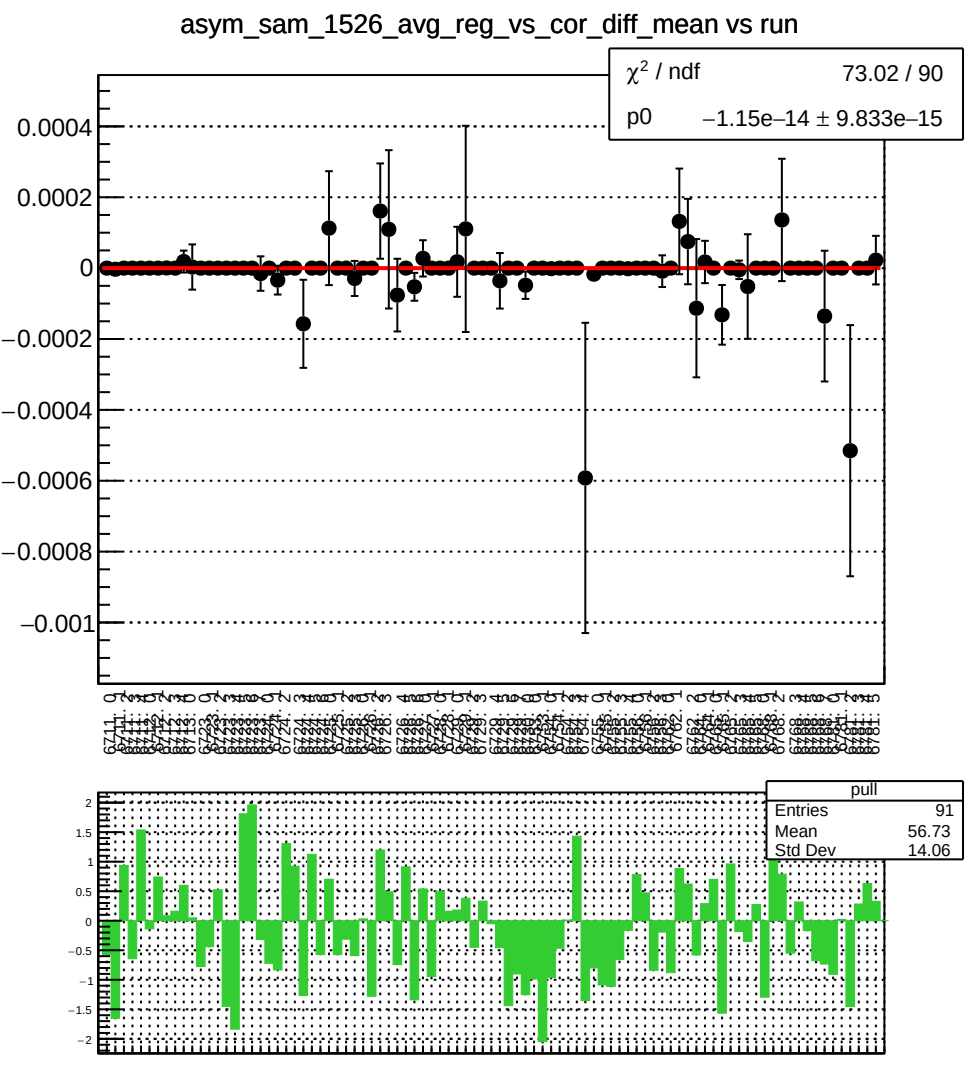

pull1D
Entries 91
Mean 0.03582
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

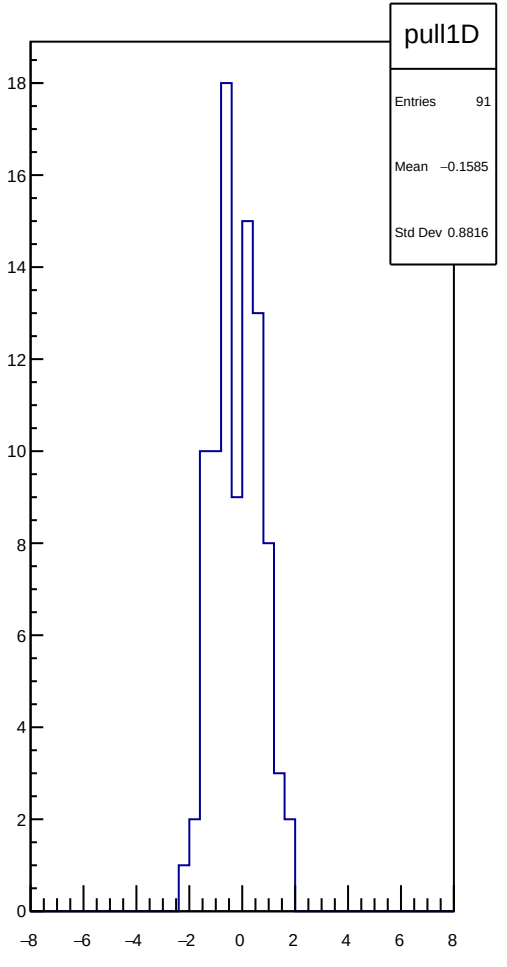

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 1.22e+05 / 90
p0 205.4 ± 0.1583
350
300
250
200
150

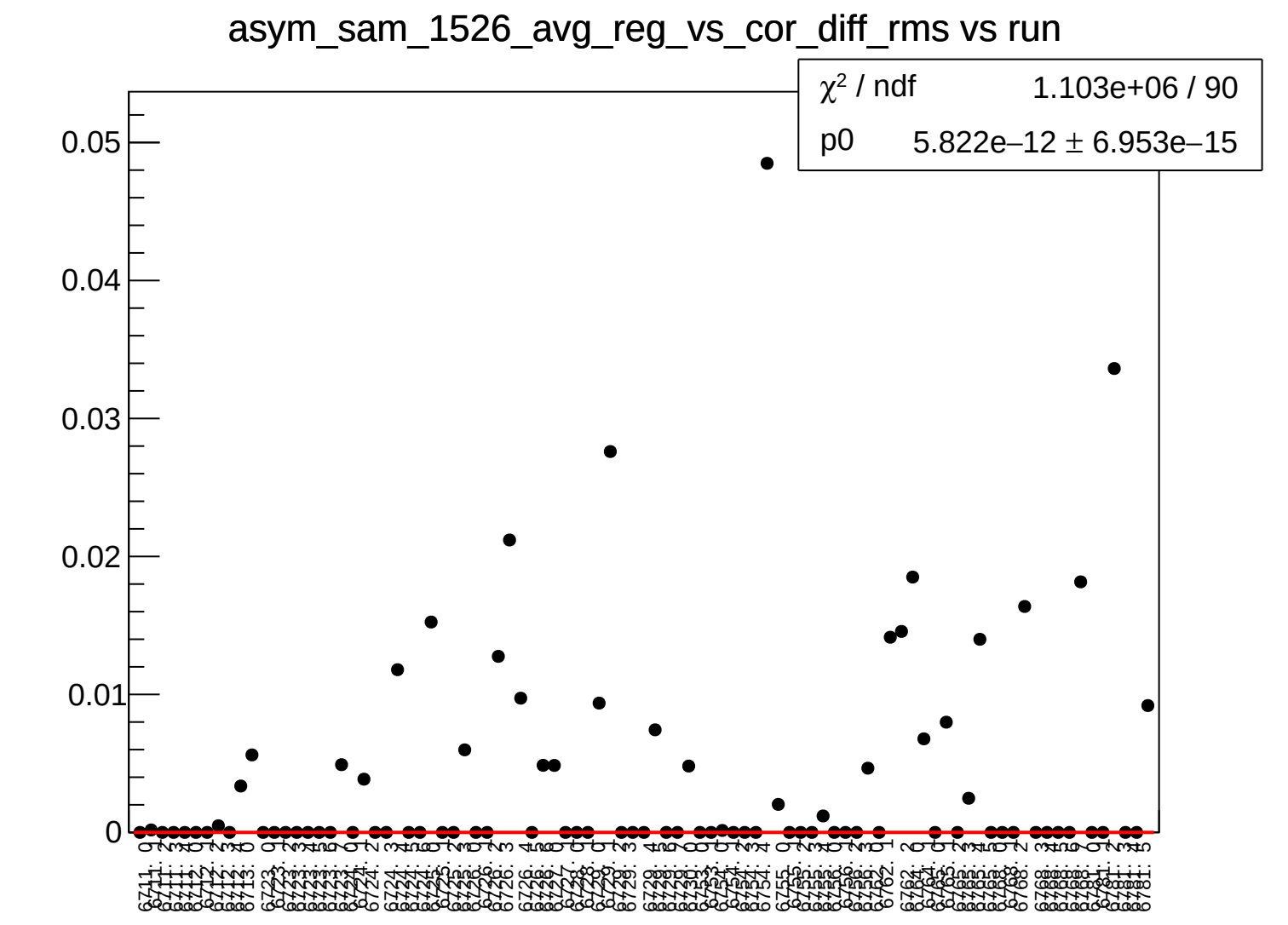

asym_sam_1526_avg_mean vs run
χ² / ndf 108.7 / 90
p0 8.044 ± 233.6
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 87.84
Std Dev 42.88
2
1
0
−1
−2

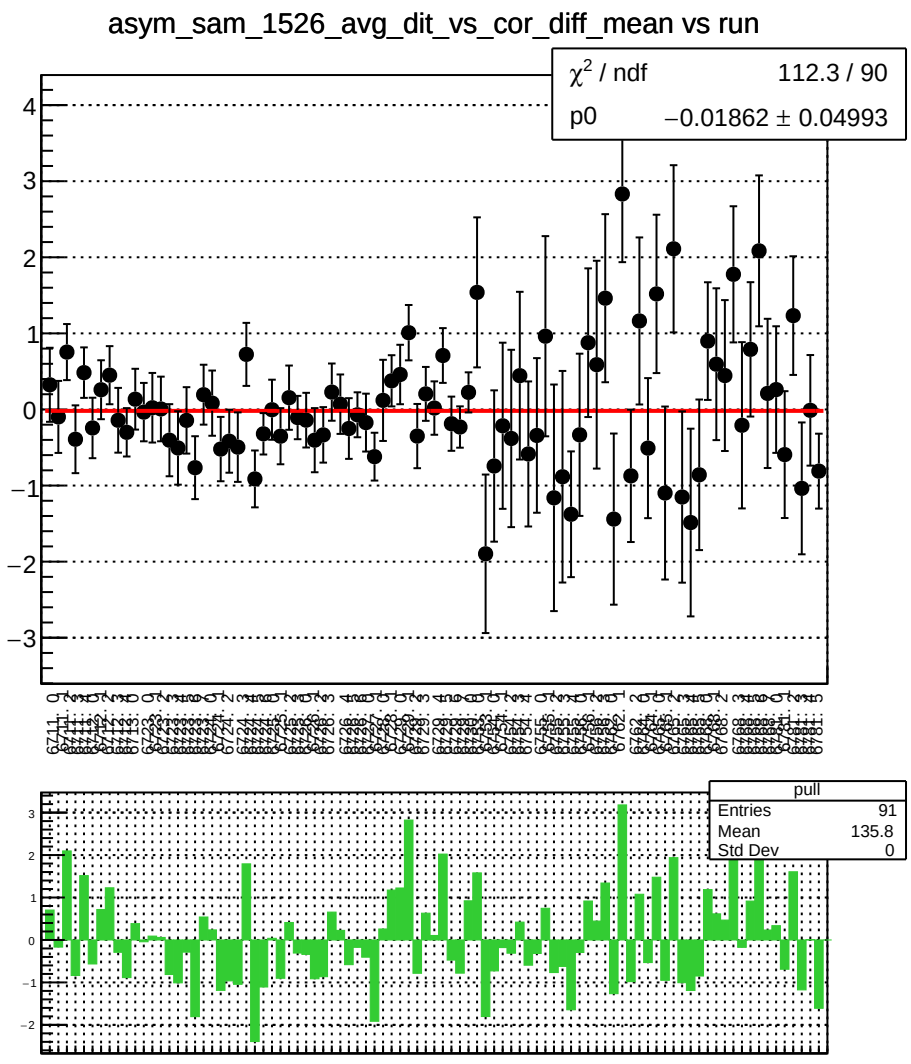

pull1D
Entries 91
Mean −0.02142
Std Dev 1.093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

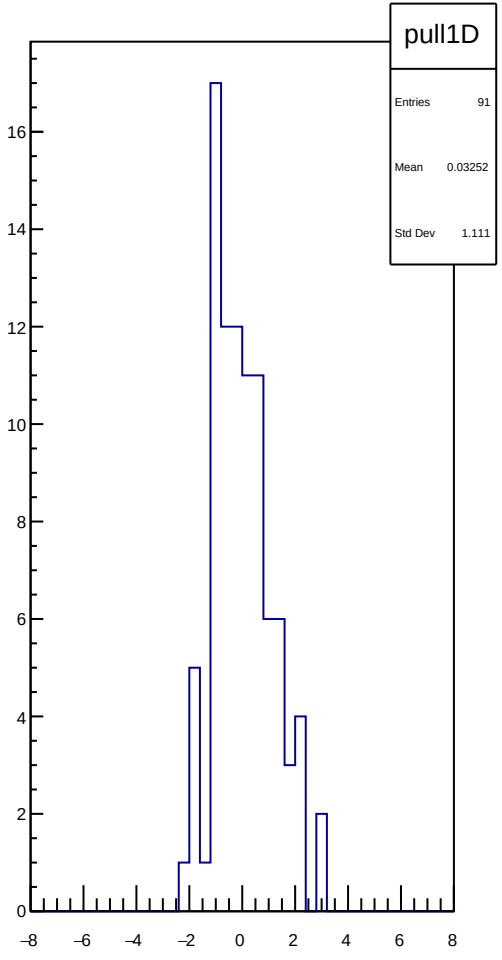

asym_sam_1526_avg_rms vs run
χ^2 / ndf 5.523e+04 / 90
p0 218.5 ± 0.1652
400
350
300
250
200

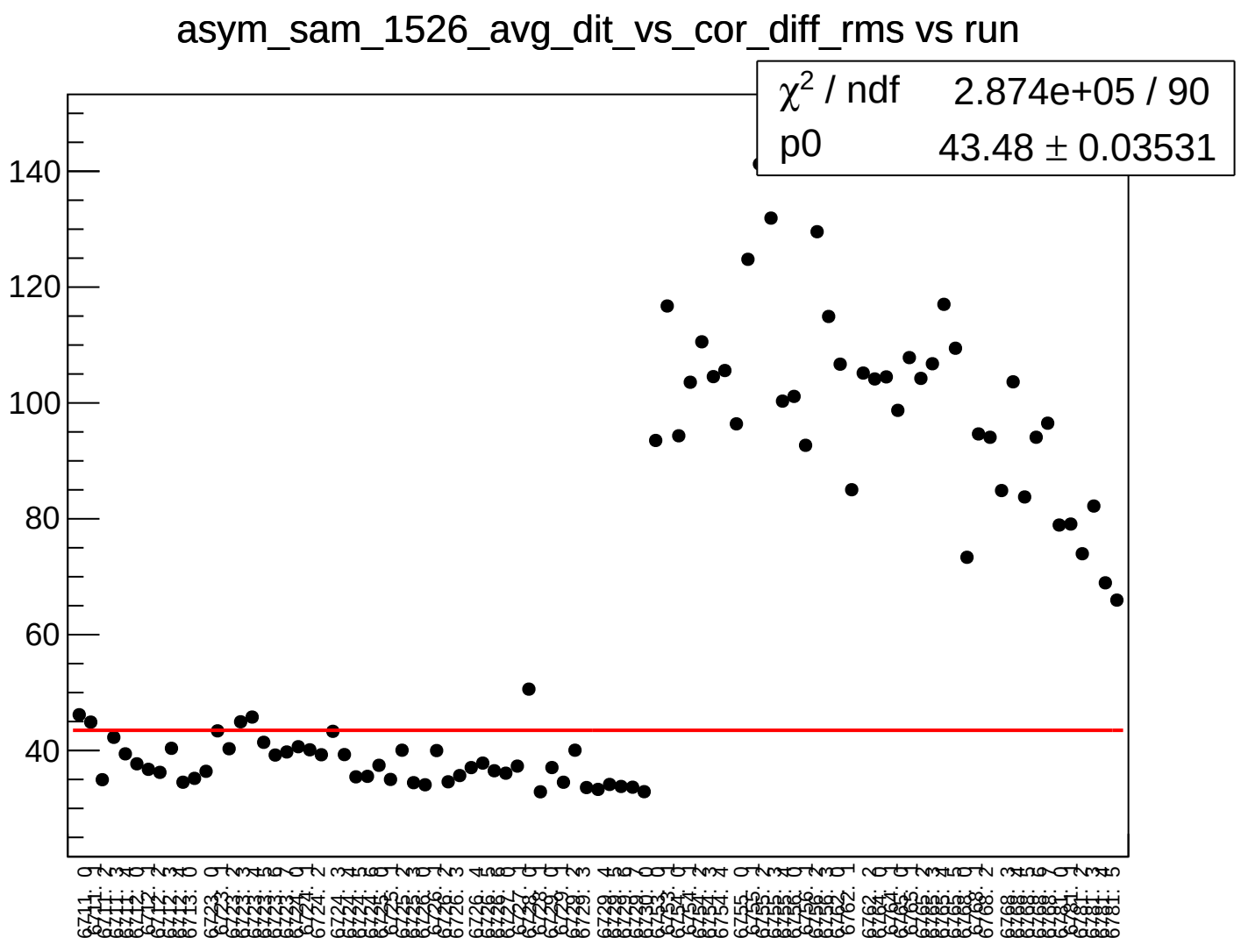

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.02 / 90
p0 −1.15e−14 ± 9.833e−15
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 91
Mean 56.73
Std Dev 14.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

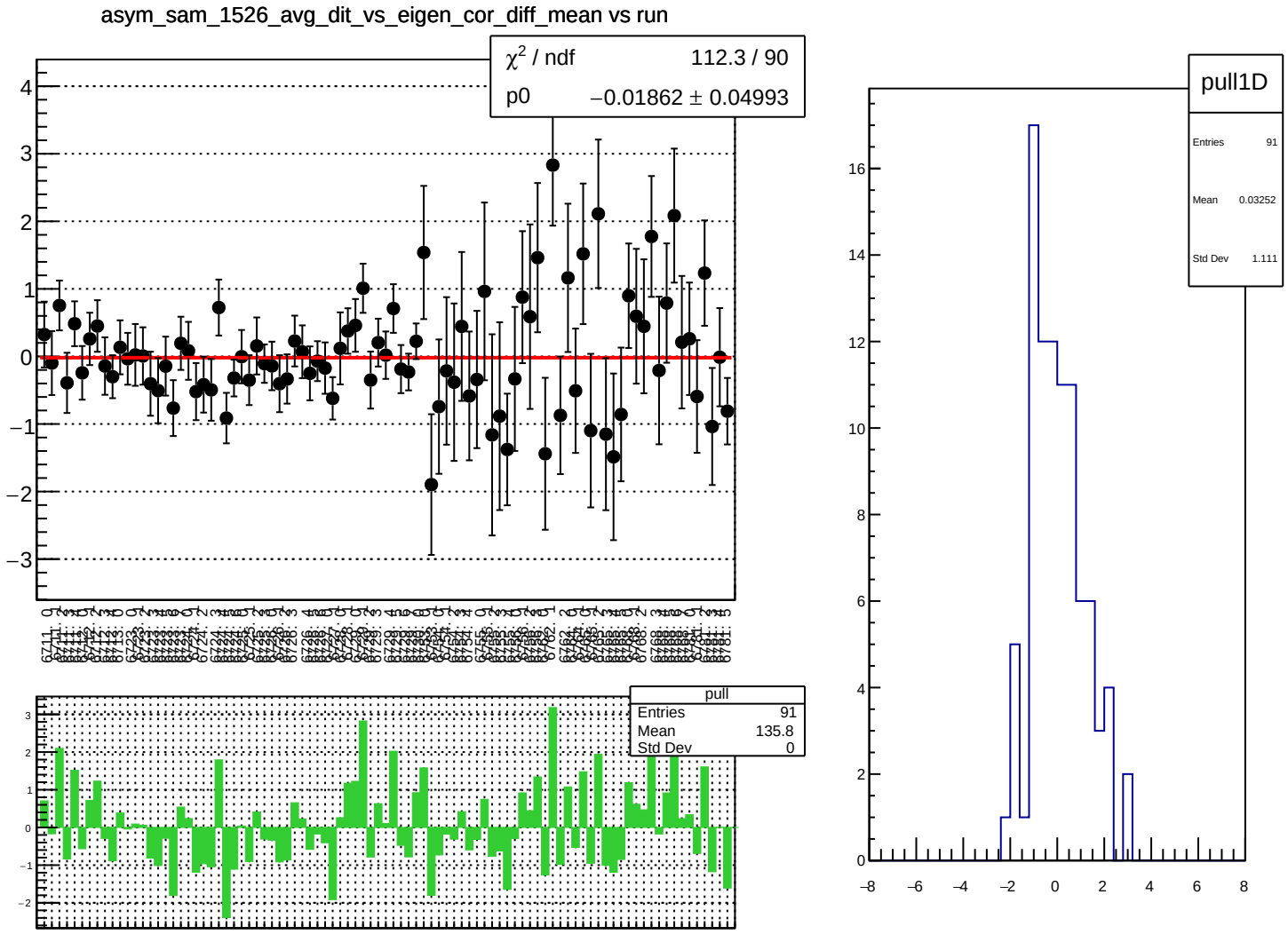

pull1D
Entries 91
Mean −0.1585
Std Dev 0.8816
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

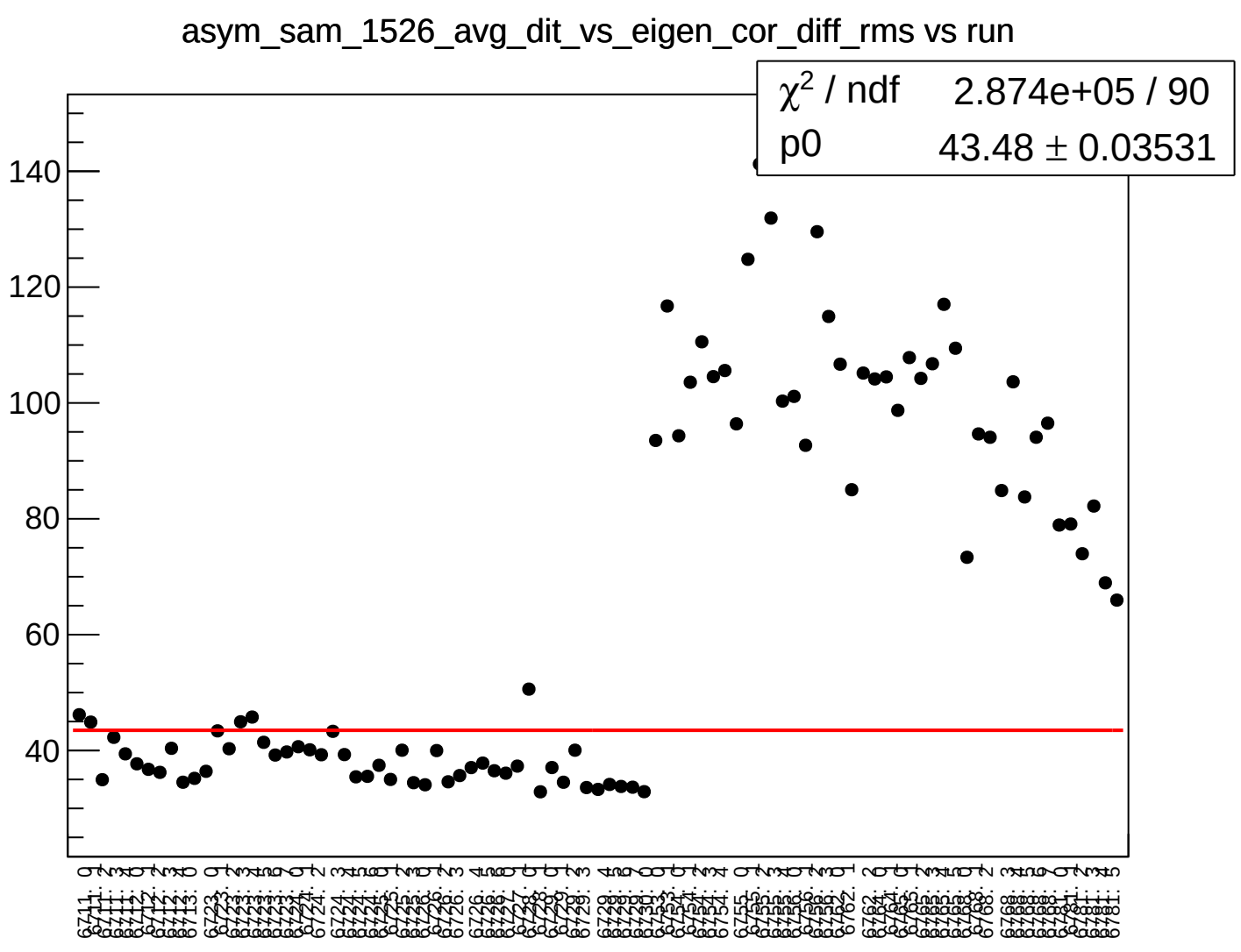

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.103e+06 / 90
p0 5.822e−12 ± 6.953e−15
0.05
0.04
0.03
0.02
0.01
0

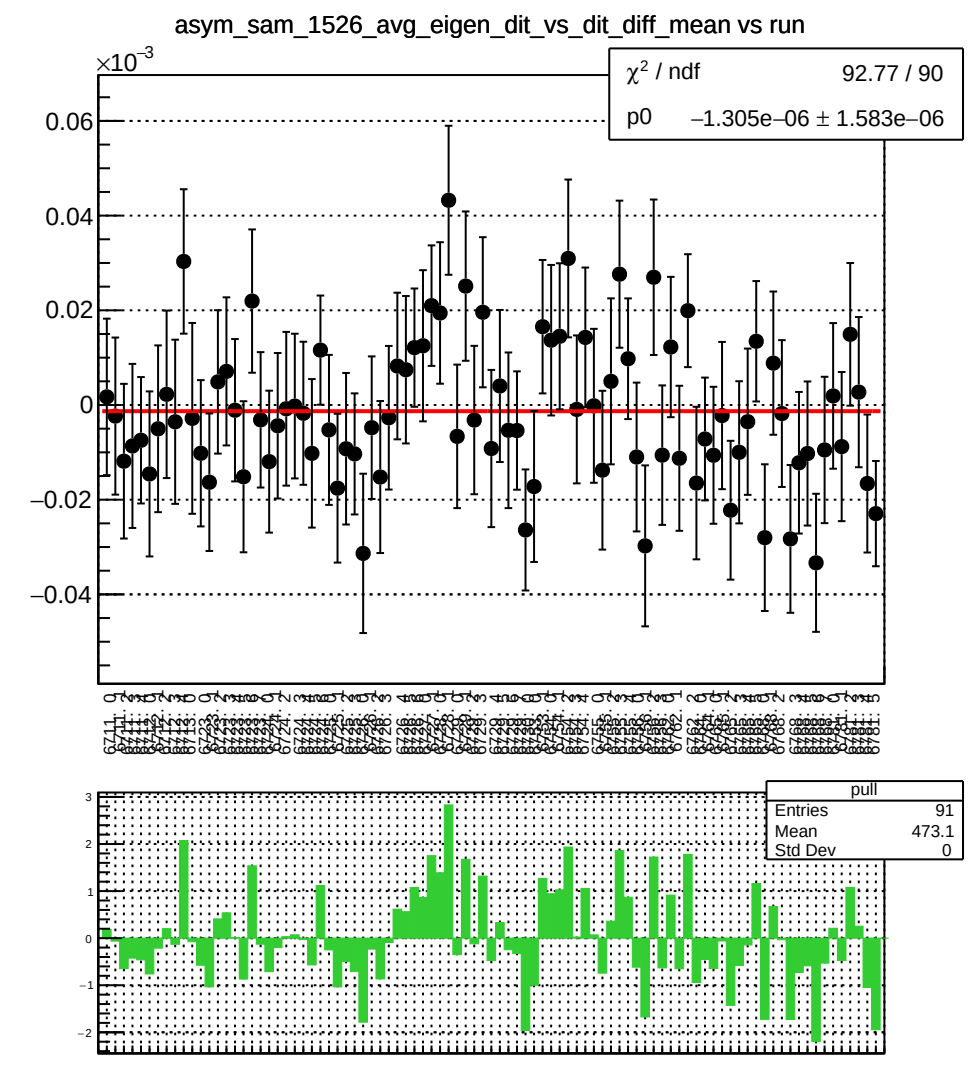

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 112.3 / 90
p0 −0.01862 ± 0.04993
pull
Entries 91
Mean 135.8
Std Dev 0

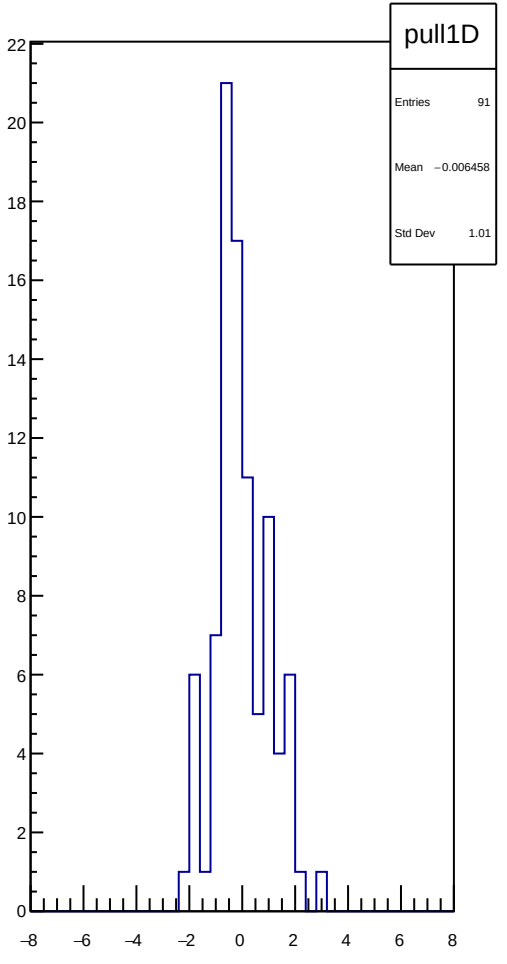

pull1D
Entries 91
Mean 0.03252
Std Dev 1.111

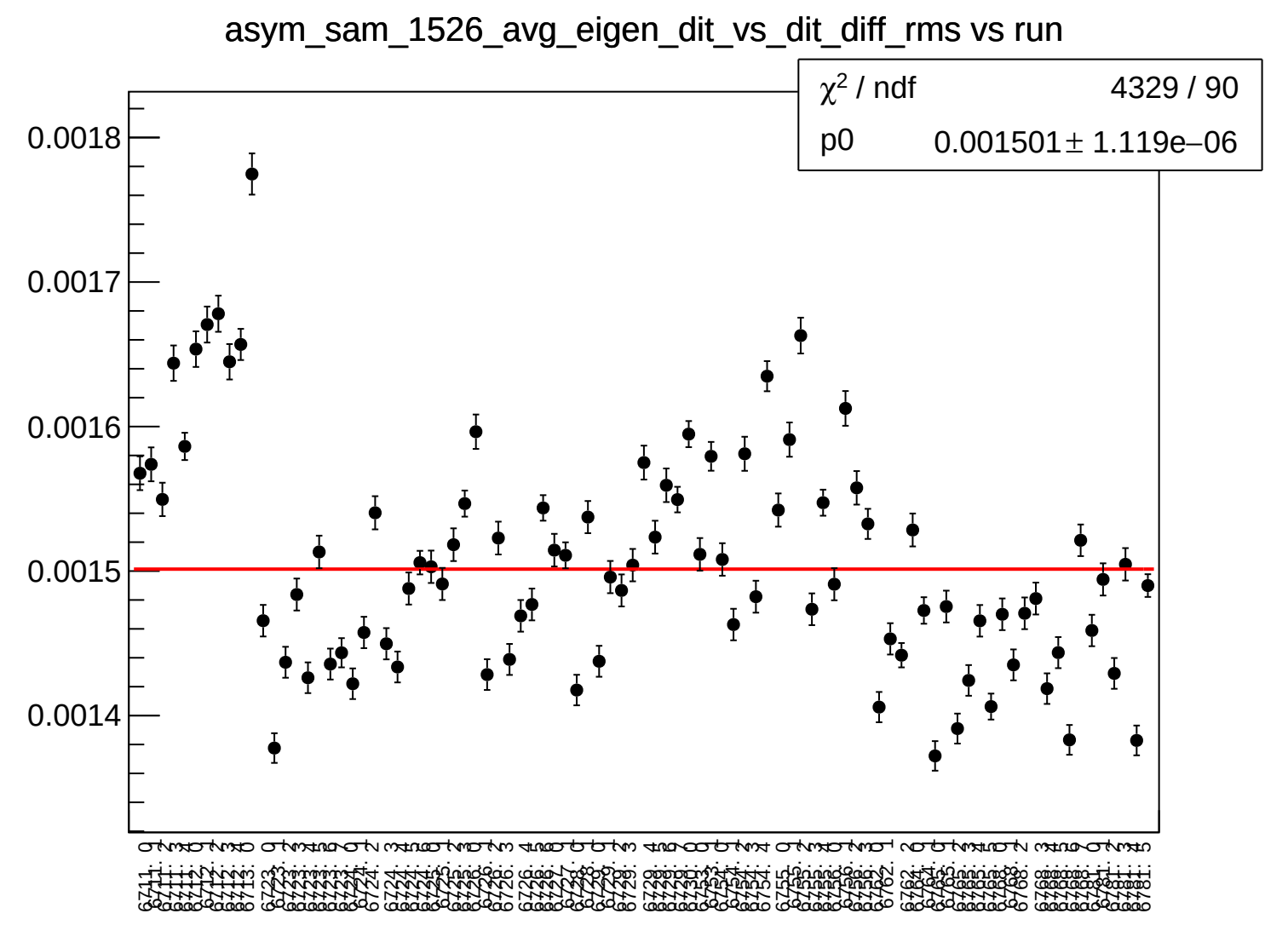

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.874e+05 / 90
p0 43.48 ± 0.03531
140
120
100
80
60
40

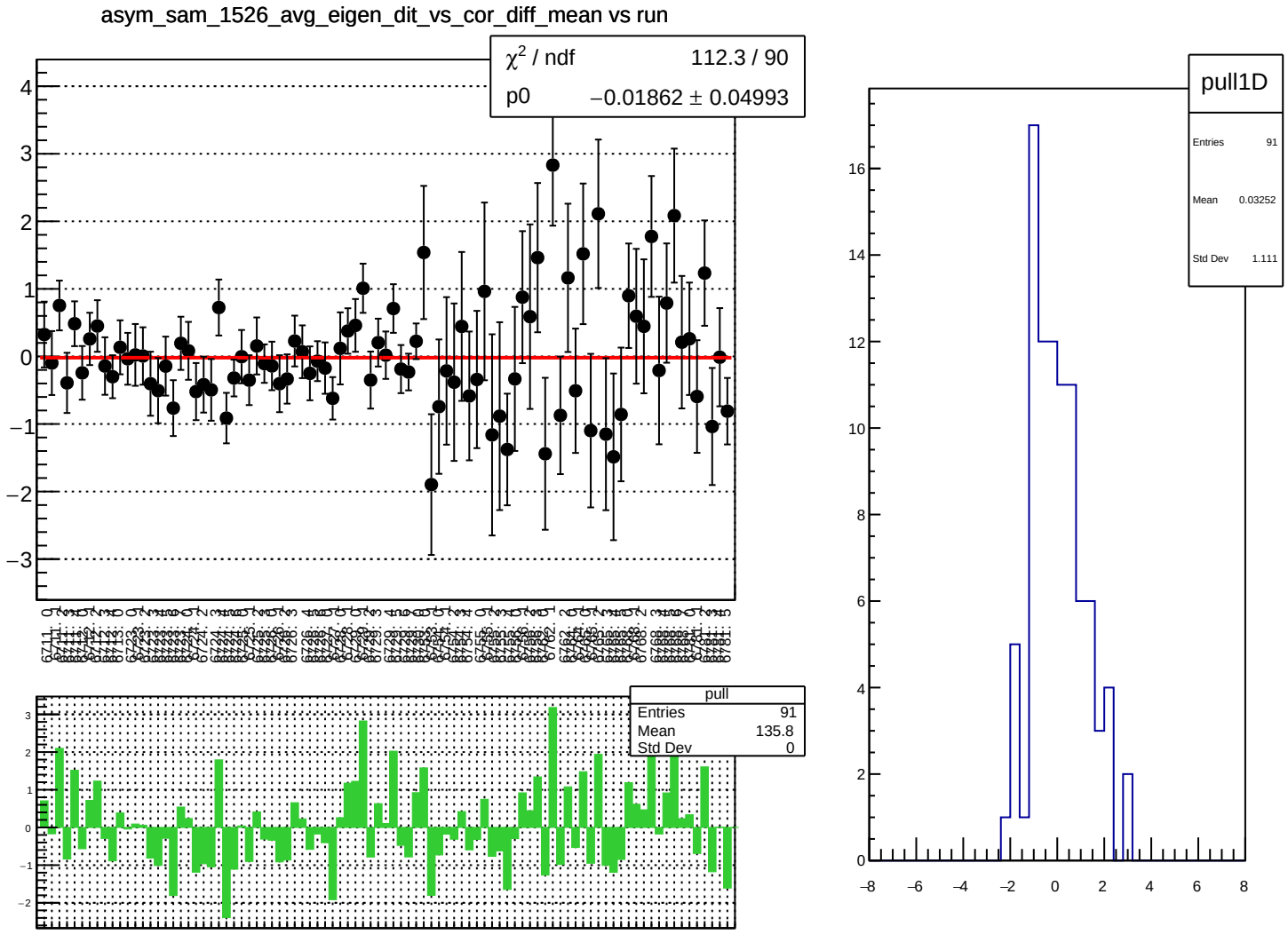

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.3 / 90
p0 −0.01862 ± 0.04993
pull
Entries 91
Mean 135.8
Std Dev 0
pull1D
Entries 91
Mean 0.03252
Std Dev 1.111

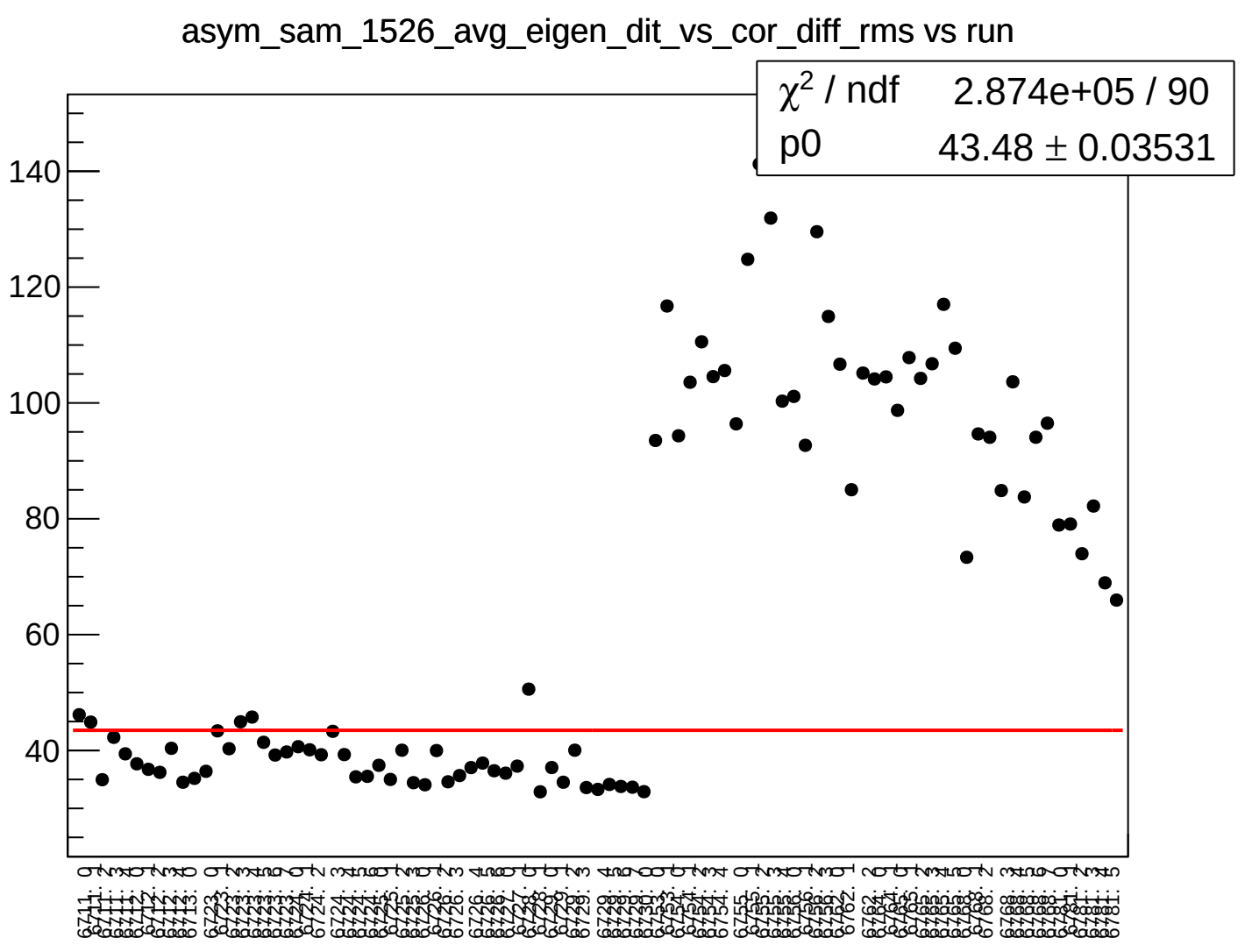

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.874e+05 / 90
p0 43.48 ± 0.03531
140
120
100
80
60
40

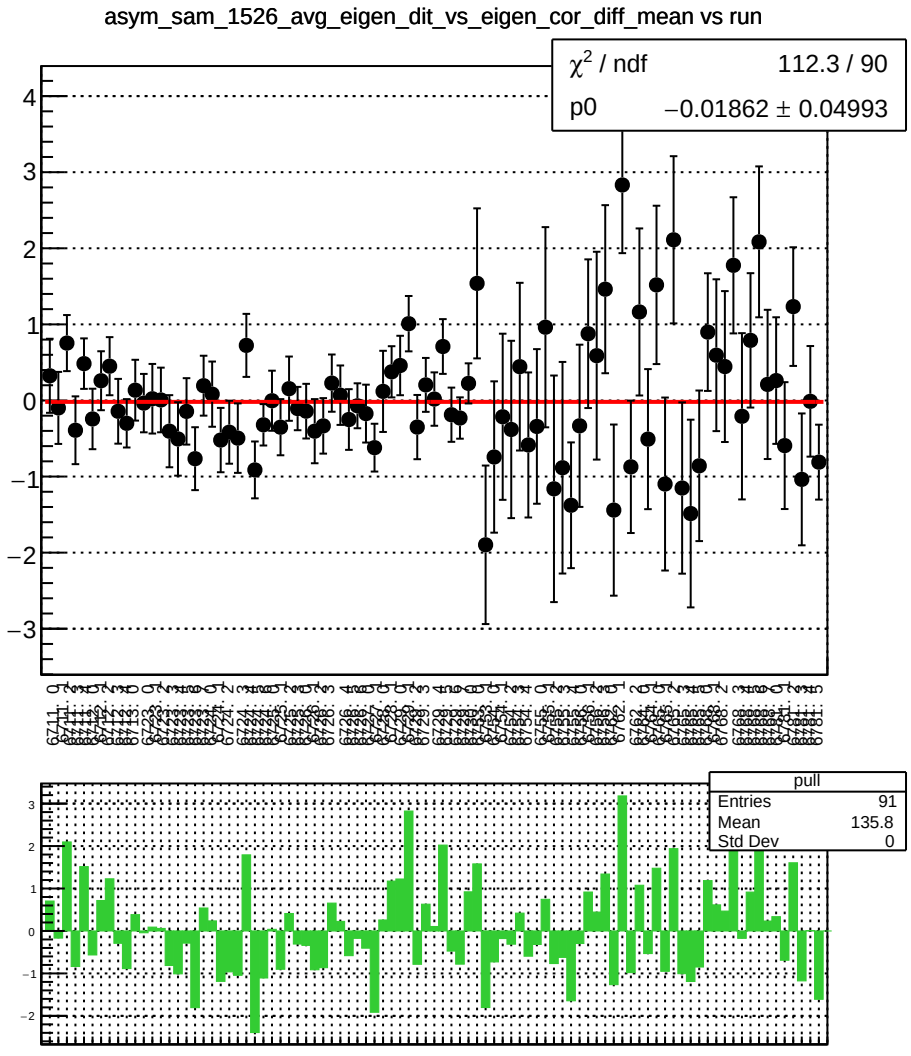

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.77 / 90
p0 −1.305e−06 ± 1.583e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 91
Mean 473.1
Std Dev 0
3
2
1
0
−1
−2

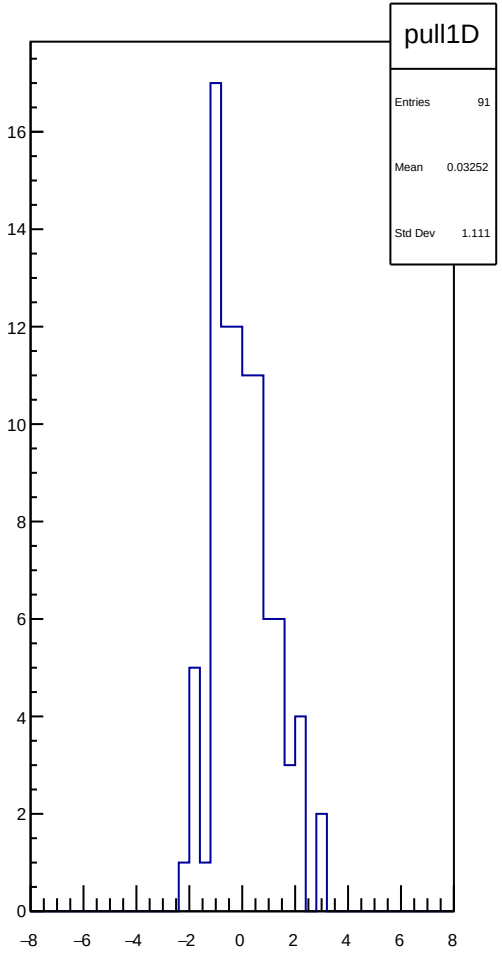

pull1D
Entries 91
Mean −0.006458
Std Dev 1.01
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

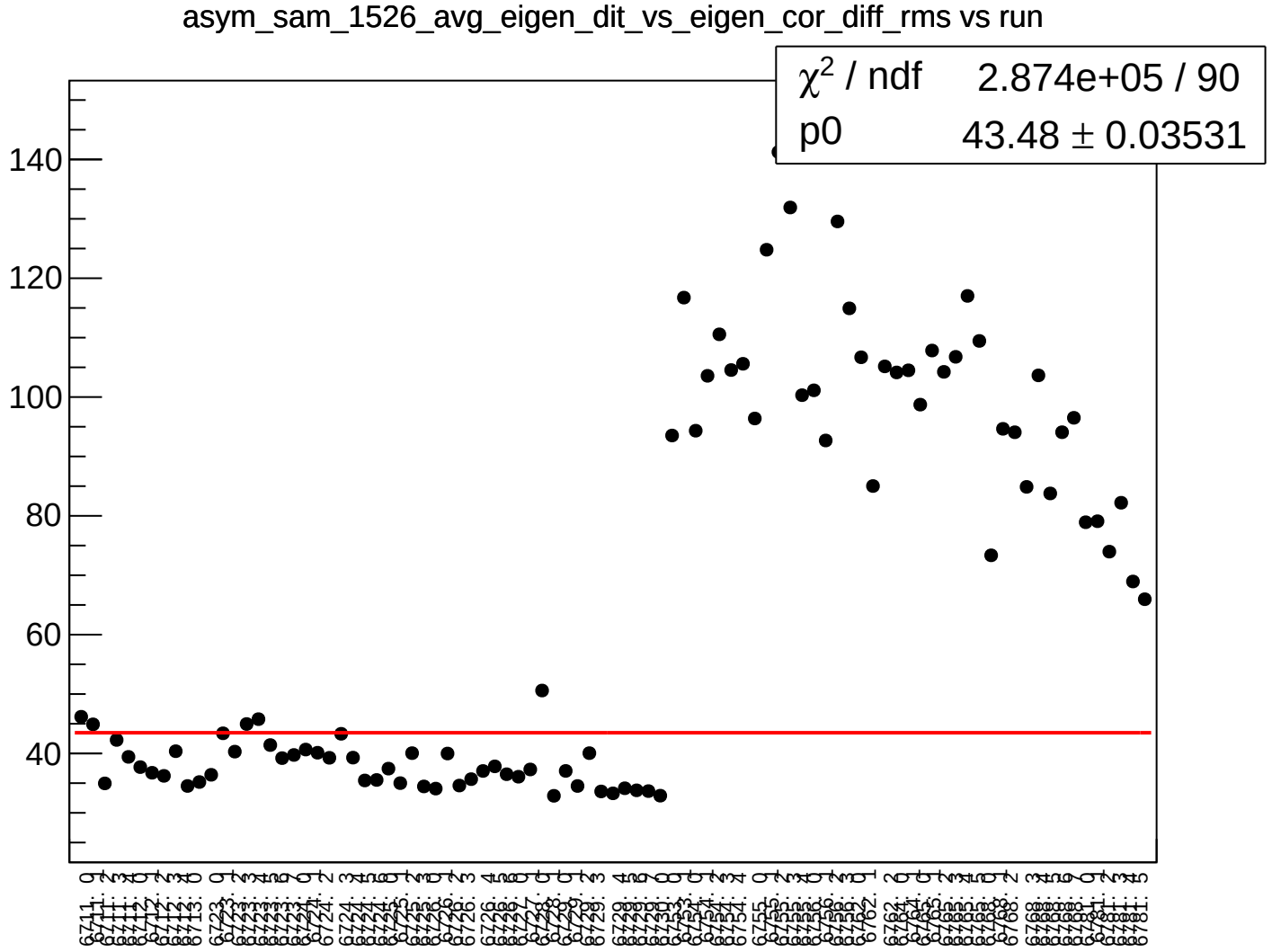

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4329 / 90
p0 0.001501 ± 1.119e−06
0.0018
0.0017
0.0016
0.0015
0.0014

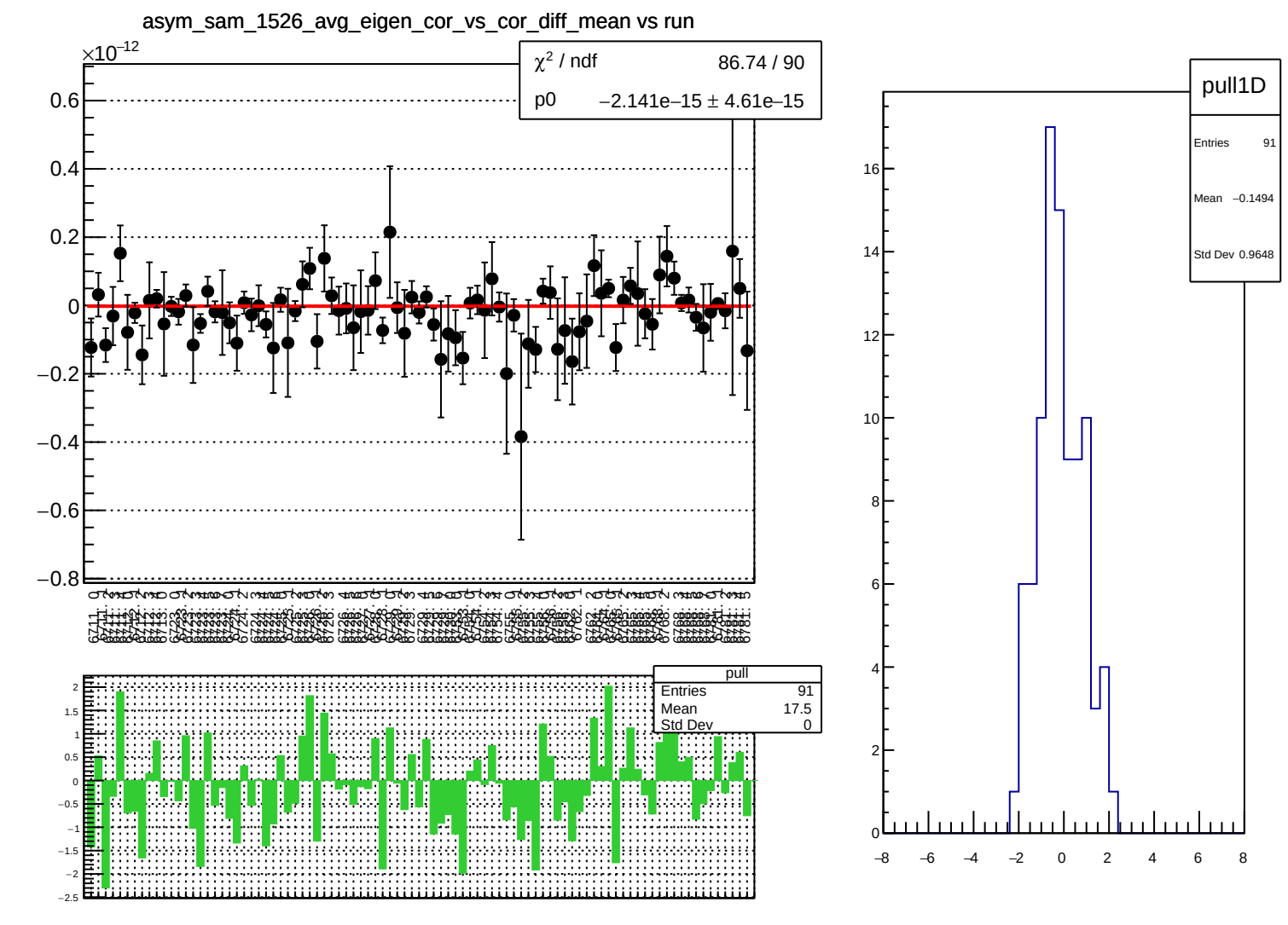

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.3 / 90
p0 −0.01862 ± 0.04993
pull
Entries 91
Mean 135.8
Std Dev 0
pull1D
Entries 91
Mean 0.03252
Std Dev 1.111

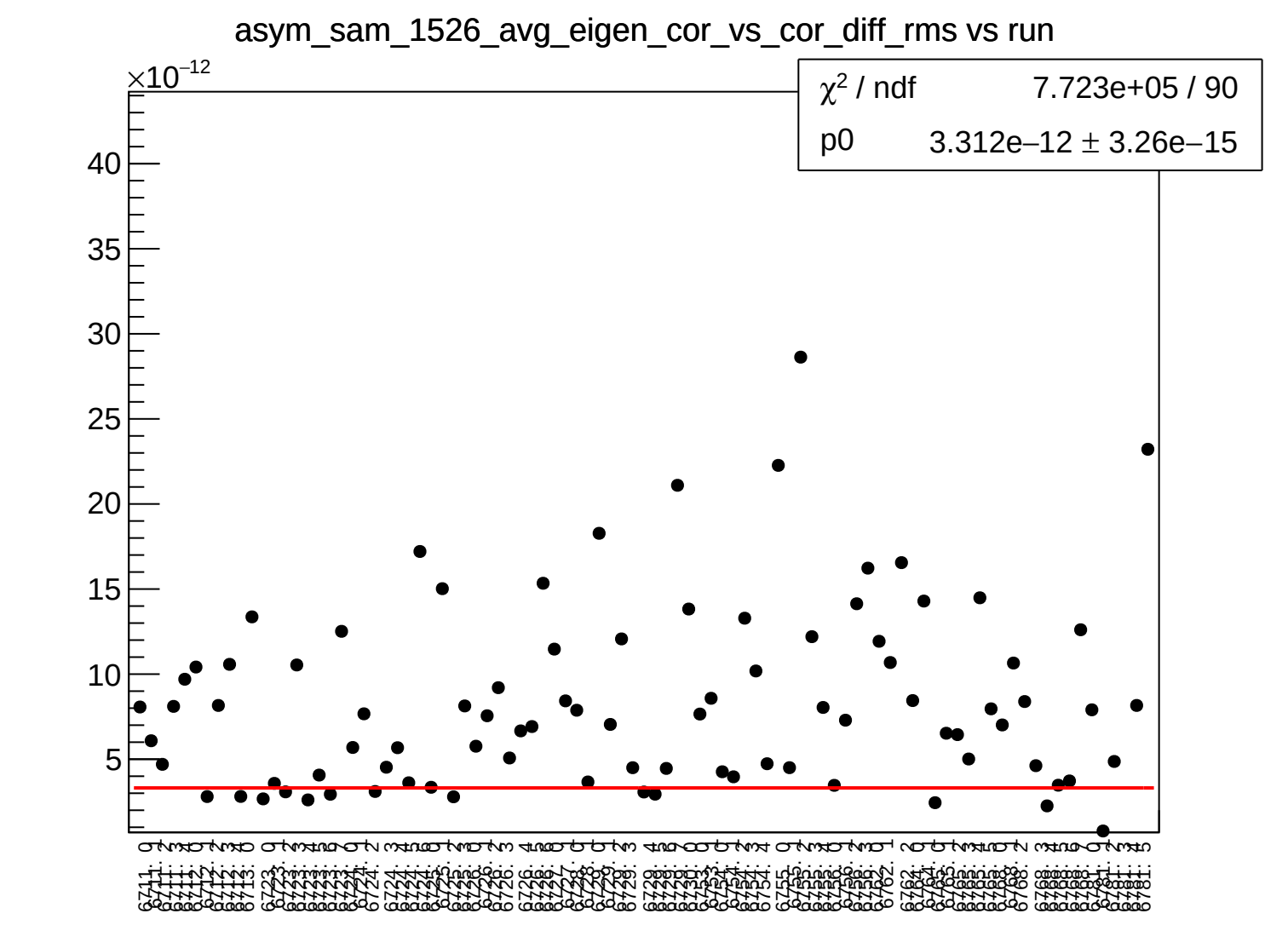

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.874e+05 / 90
p0 43.48 ± 0.03531
140
120
100
80
60
40

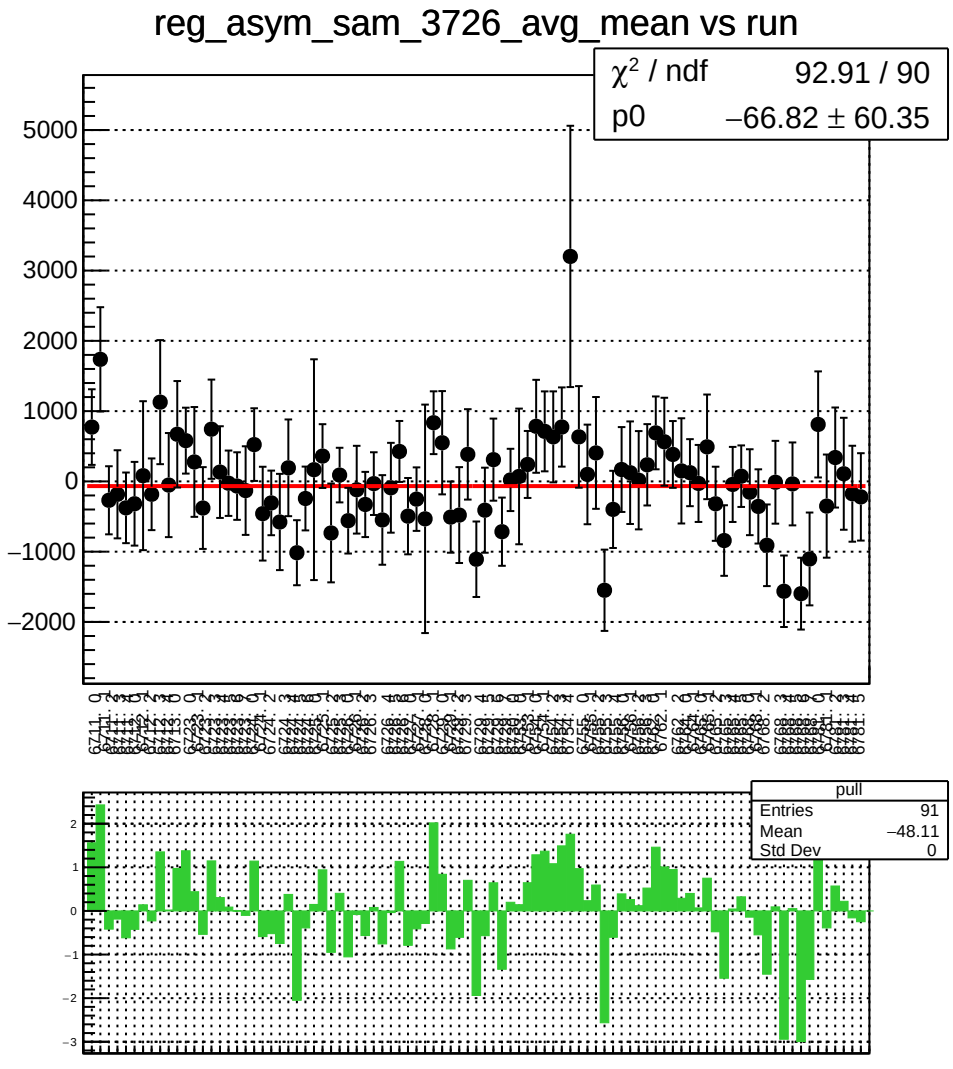

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.3 / 90
p0 −0.01862 ± 0.04993
pull
Entries 91
Mean 135.8
Std Dev 0

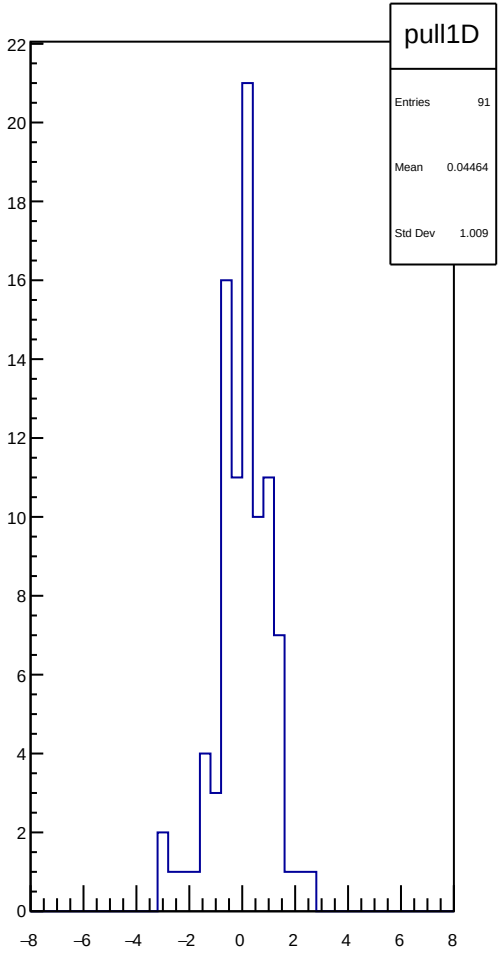

pull1D
Entries 91
Mean 0.03252
Std Dev 1.111

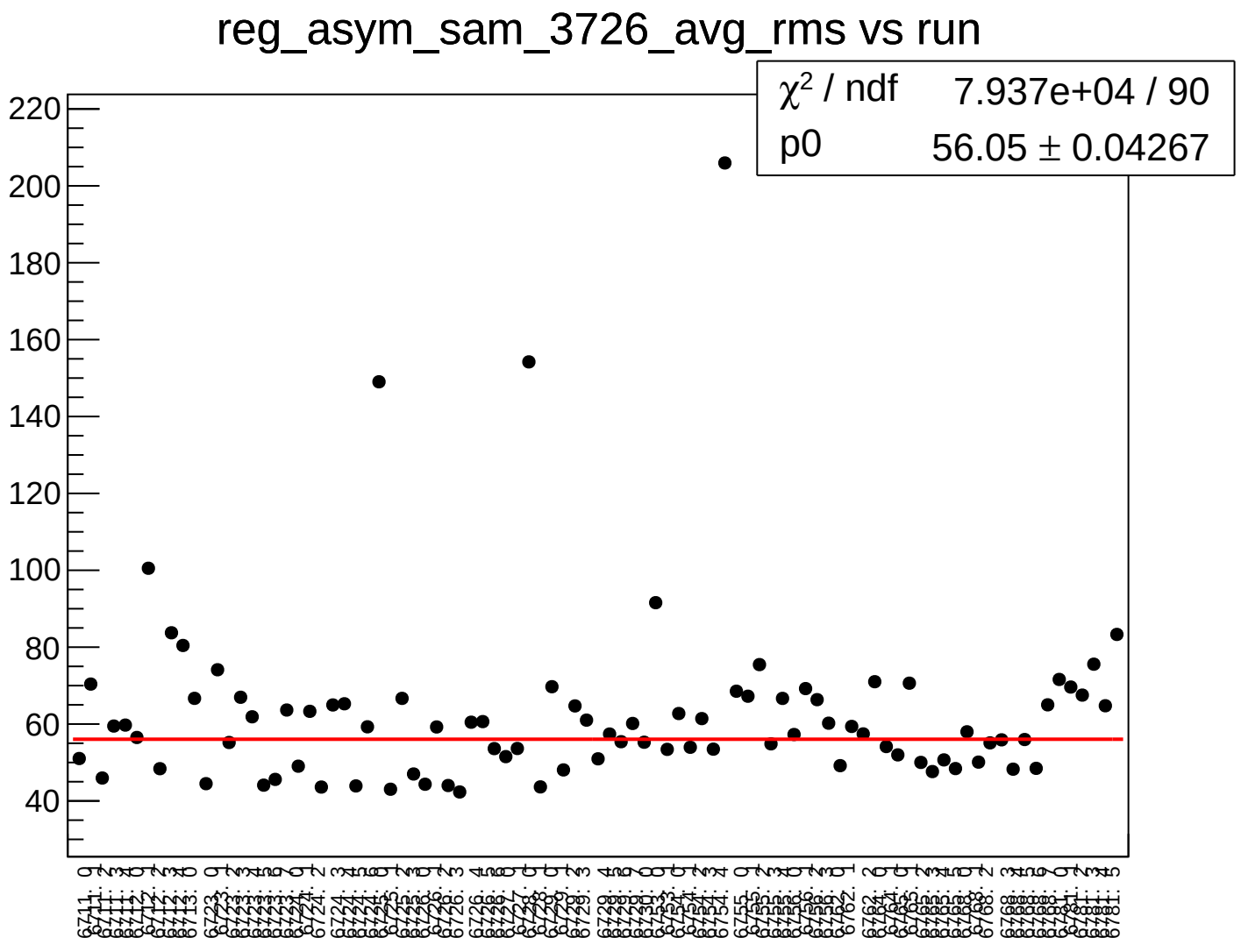

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.874e+05 / 90
p0 43.48 ± 0.03531
140
120
100
80
60
40

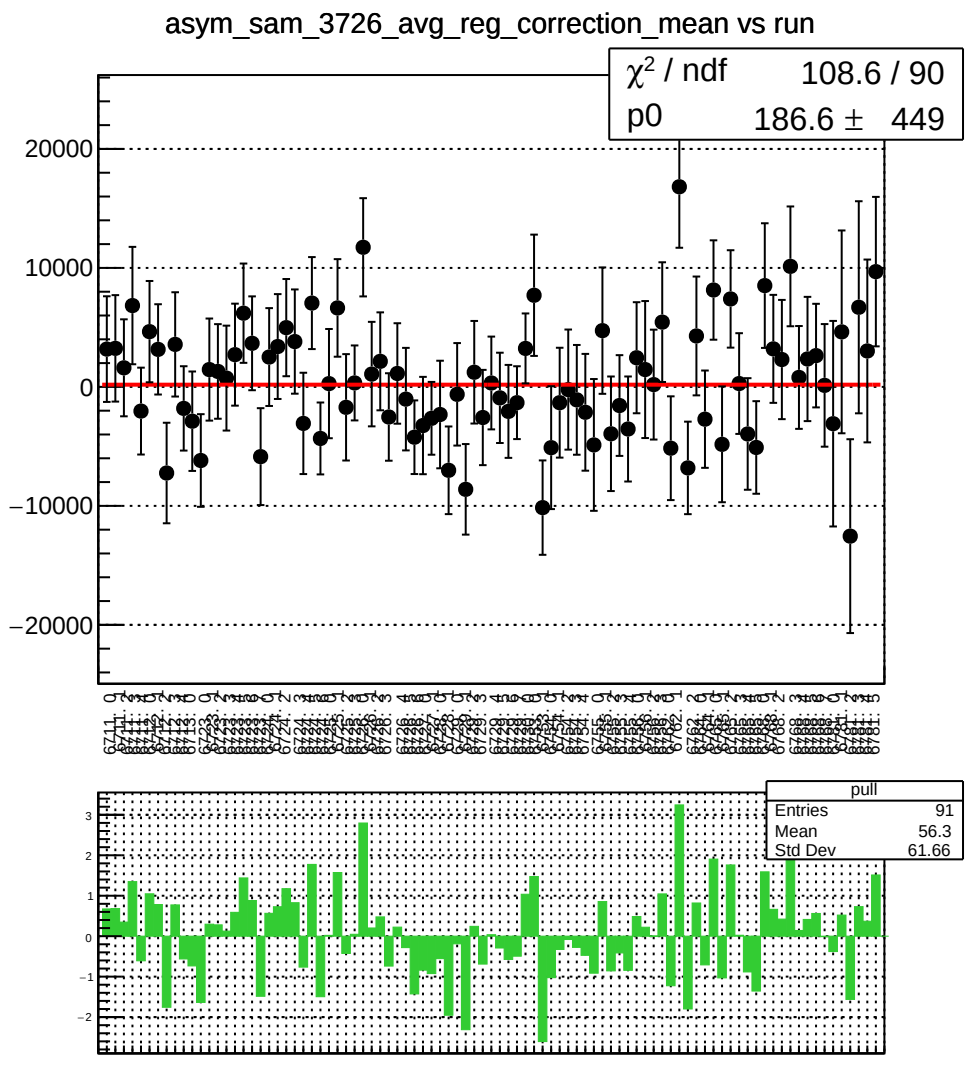

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.74 / 90
p0 −2.141e−15 ± 4.61e−15
pull
Entries 91
Mean 17.5
Std Dev 0
pull1D
Entries 91
Mean −0.1494
Std Dev 0.9648

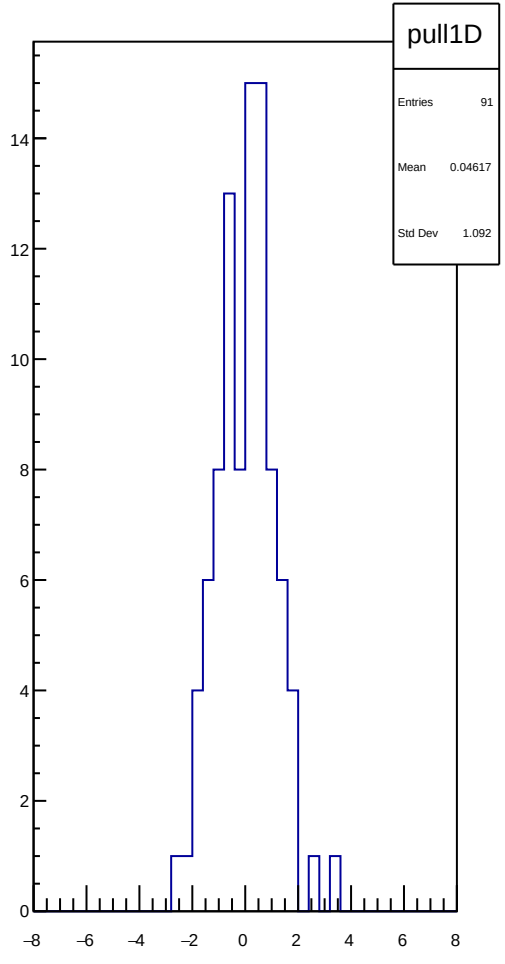

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.723e+05 / 90
p0 3.312e−12 ± 3.26e−15
40
35
30
25
20
15
10
5

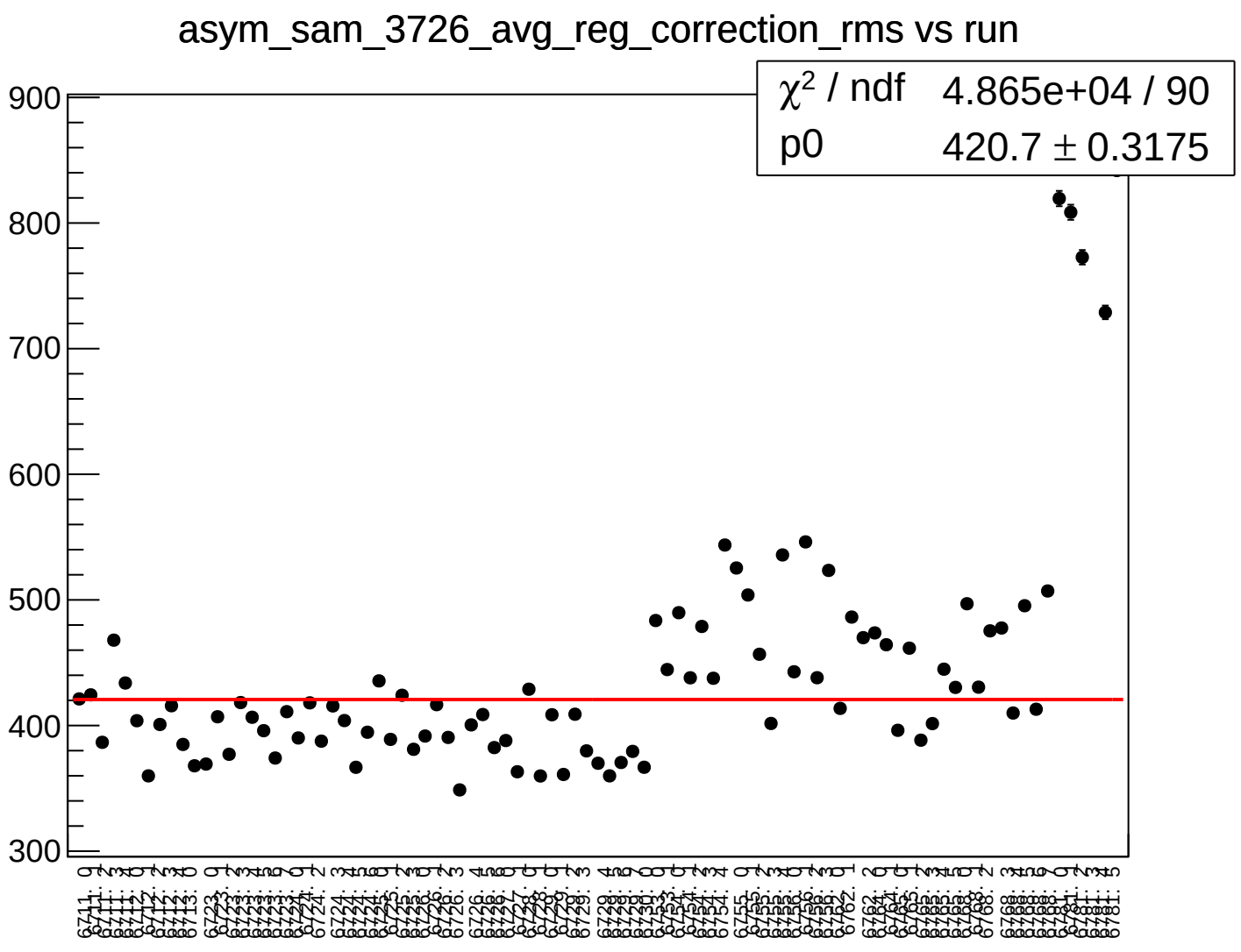

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 92.91 / 90
p0 −66.82 ± 60.35
pull
Entries 91
Mean −48.11
Std Dev 0

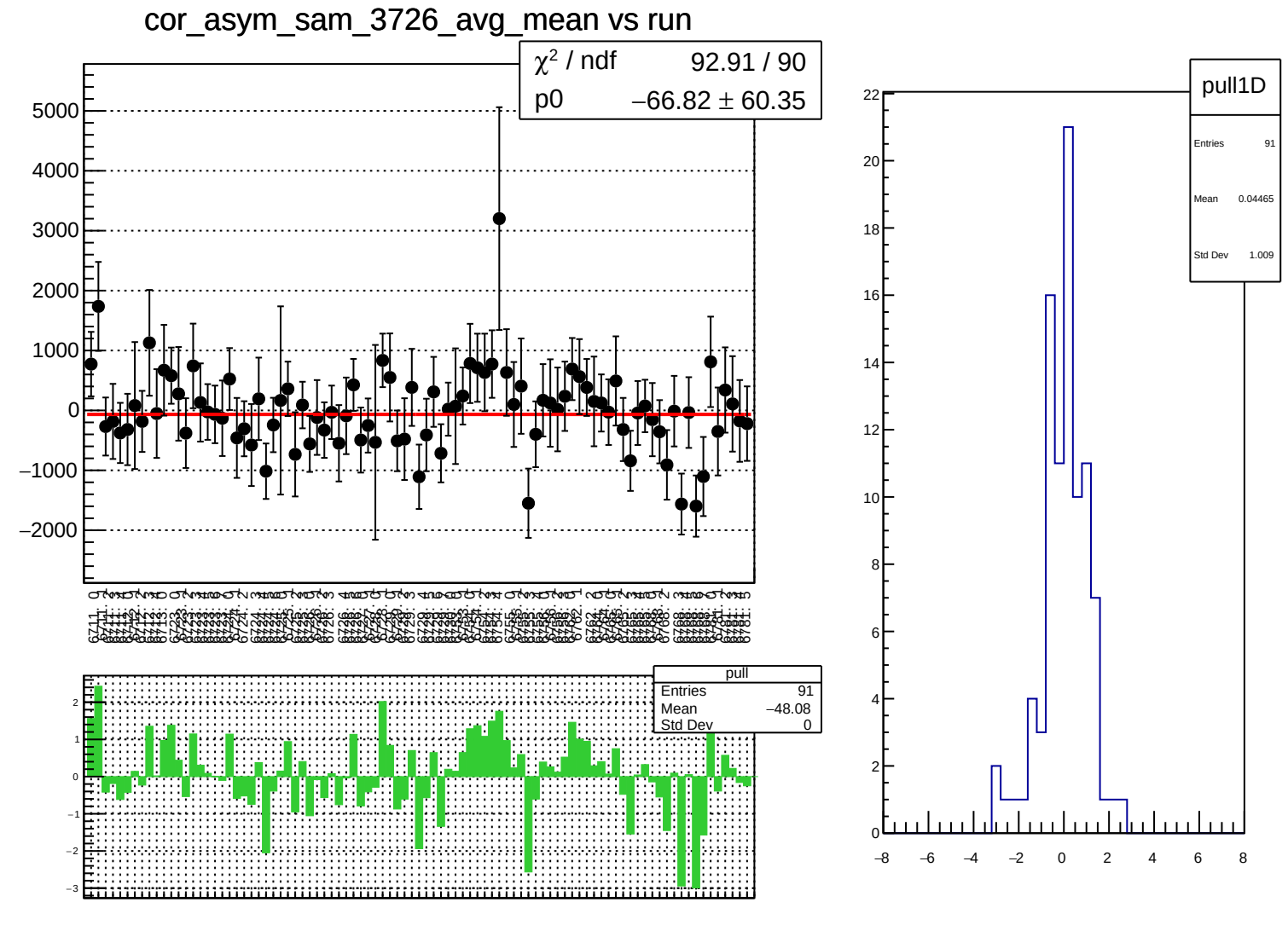

pull1D
Entries 91
Mean 0.04464
Std Dev 1.009

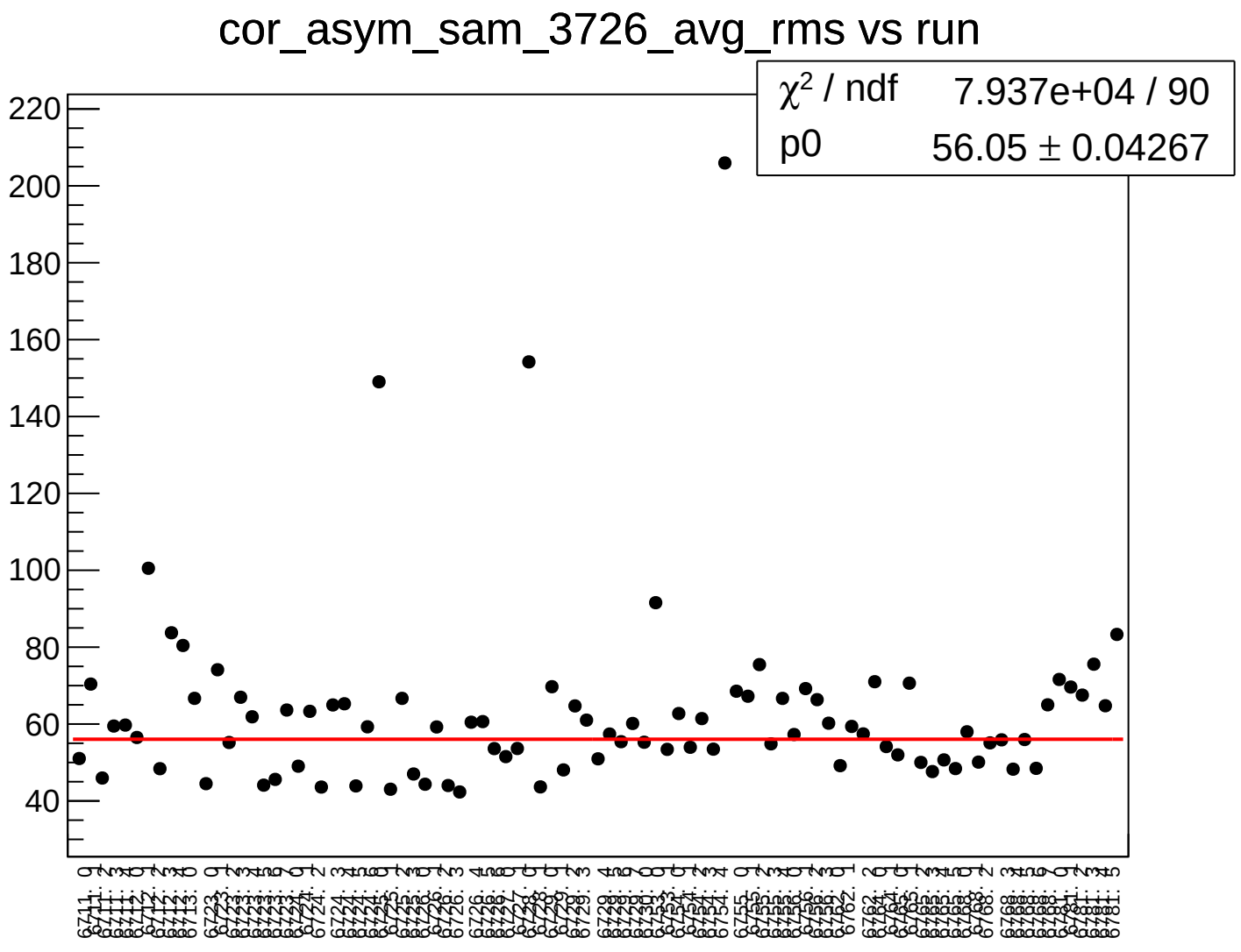

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 7.937e+04 / 90
p0 56.05 ± 0.04267
220
200
180
160
140
120
100
80
60
40

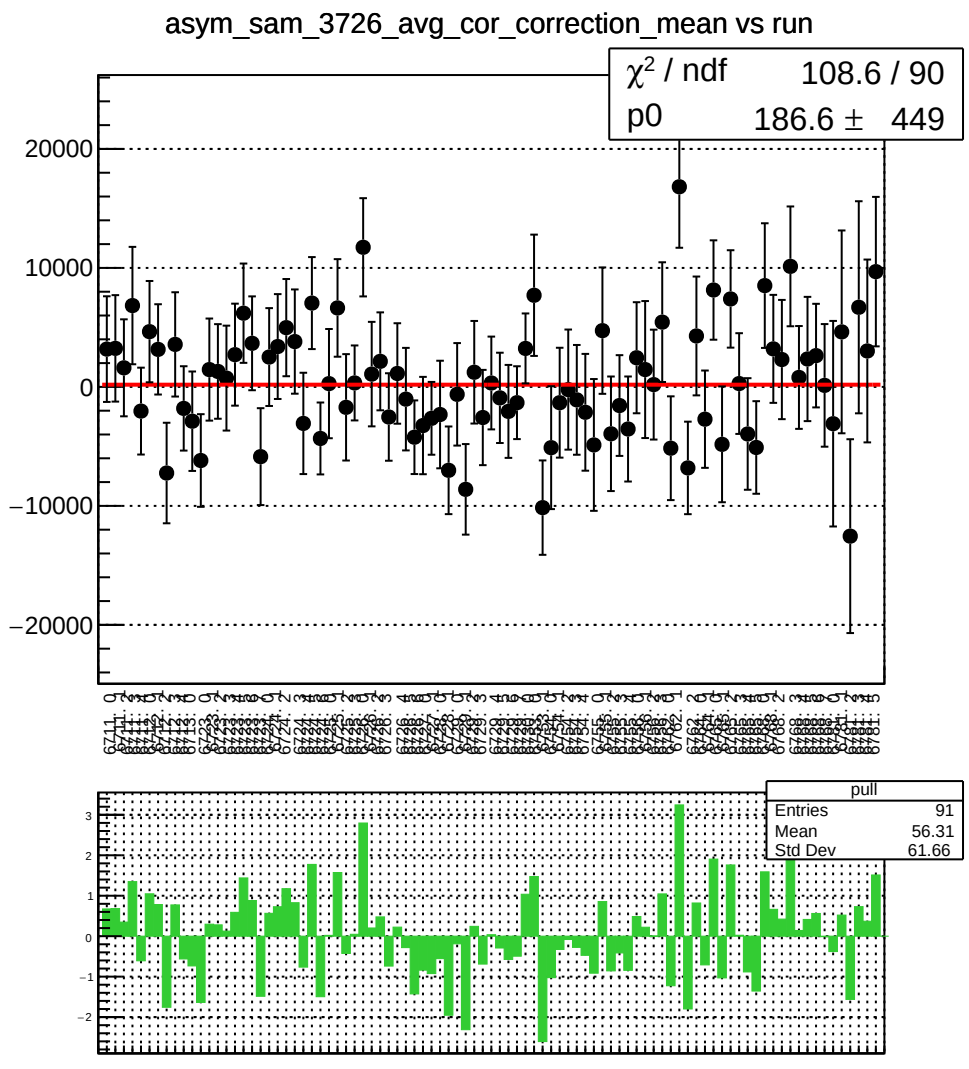

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 108.6 / 90
p0 186.6 ± 449
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 56.3
Std Dev 61.66
3
2
1
0
−1
−2

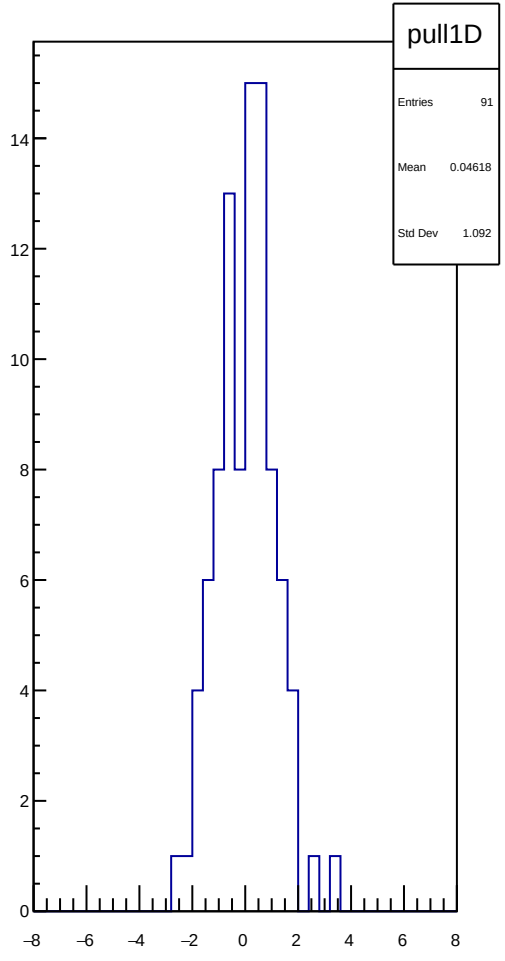

pull1D
Entries 91
Mean 0.04617
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

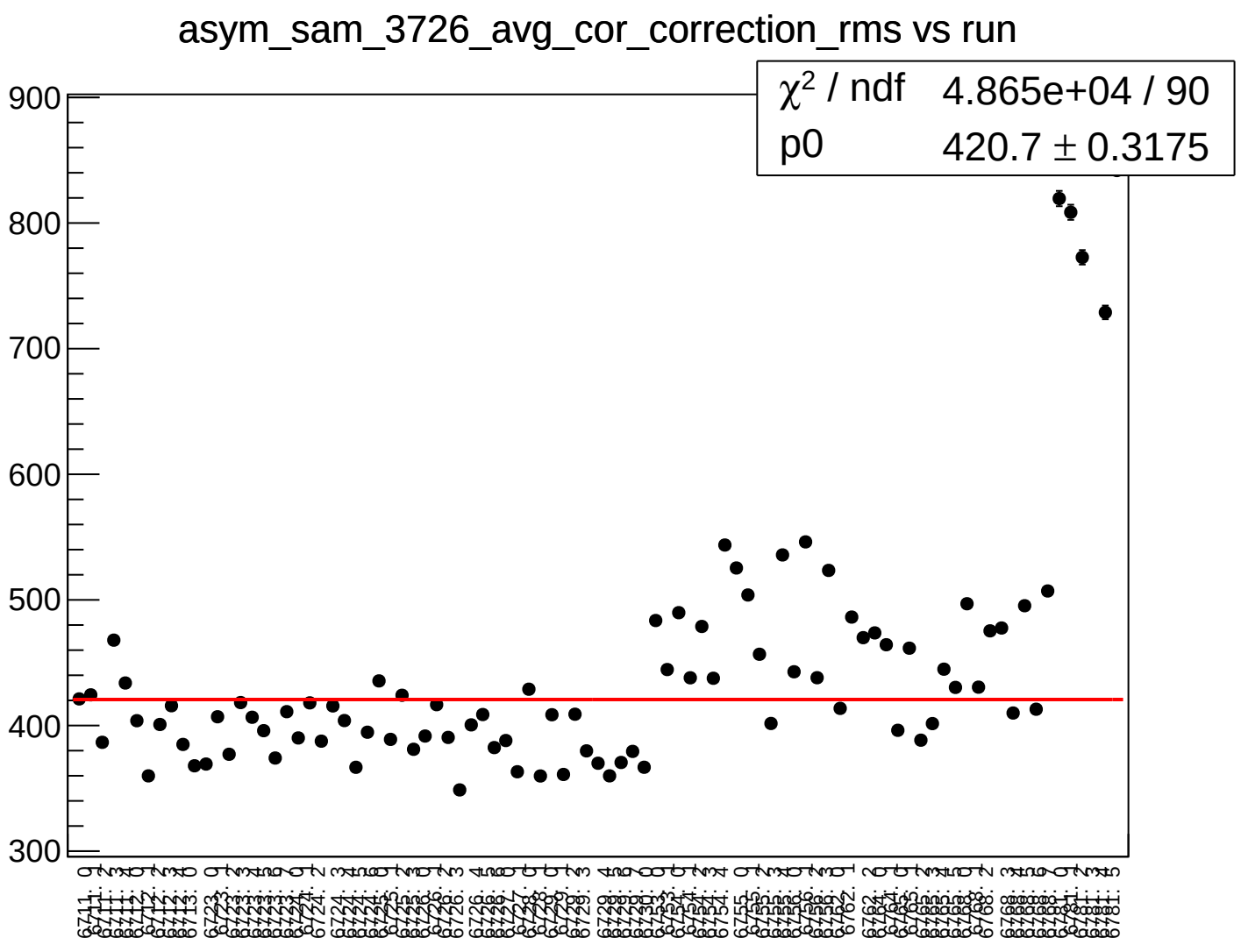

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 4.865e+04 / 90
p0 420.7 ± 0.3175
900
800
700
600
500
400
300

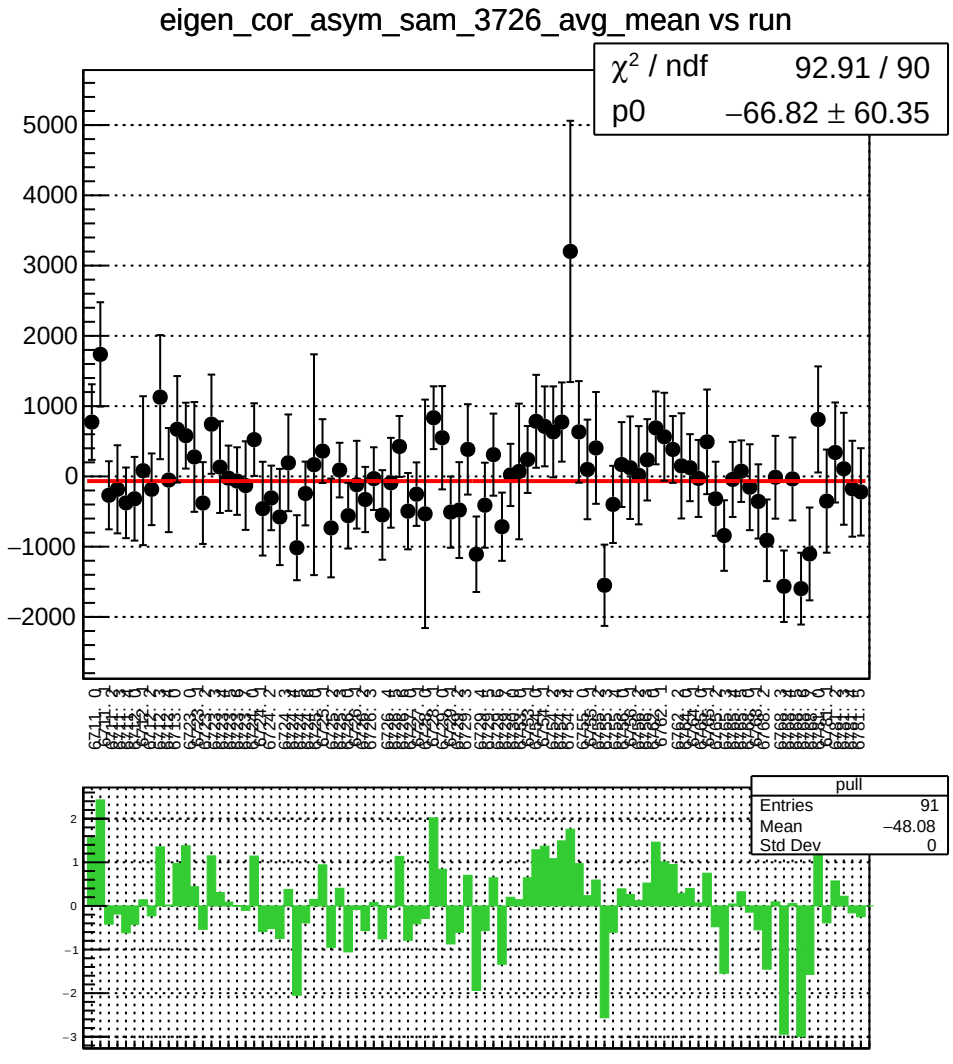

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 92.91 / 90
p0 −66.82 ± 60.35
pull
Entries 91
Mean −48.08
Std Dev 0
pull1D
Entries 91
Mean 0.04465
Std Dev 1.009

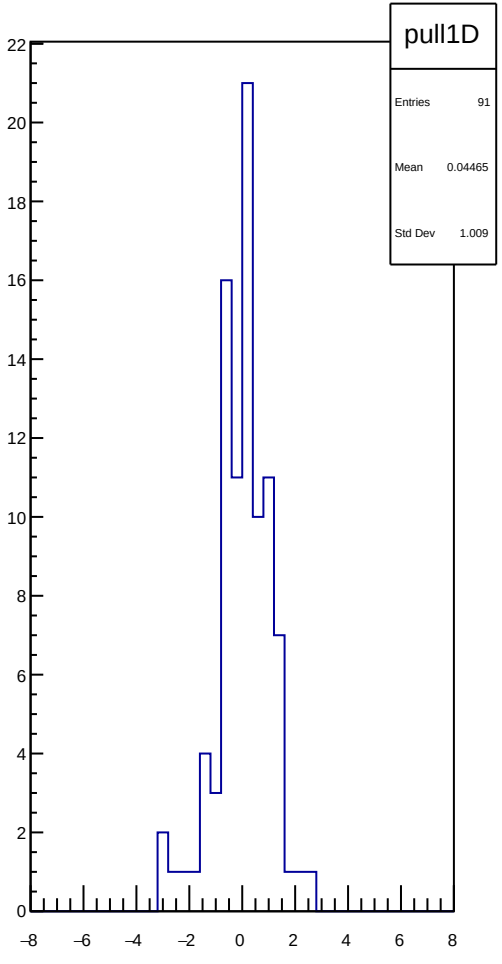

cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 7.937e+04 / 90
p0 56.05 ± 0.04267
220
200
180
160
140
120
100
80
60
40

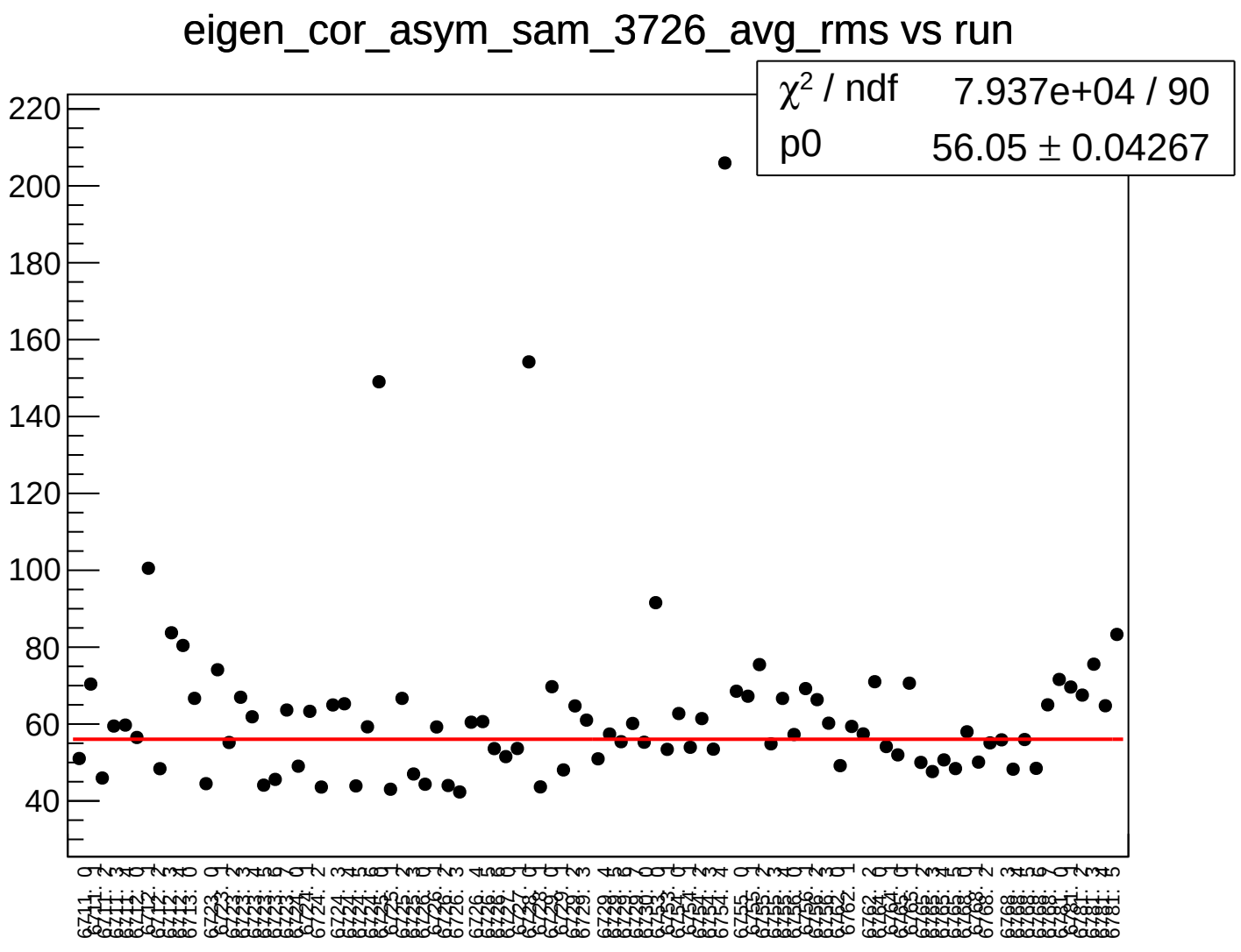

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 108.6 / 90
p0 186.6 ± 449
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 56.31
Std Dev 61.66
3
2
1
0
−1
−2

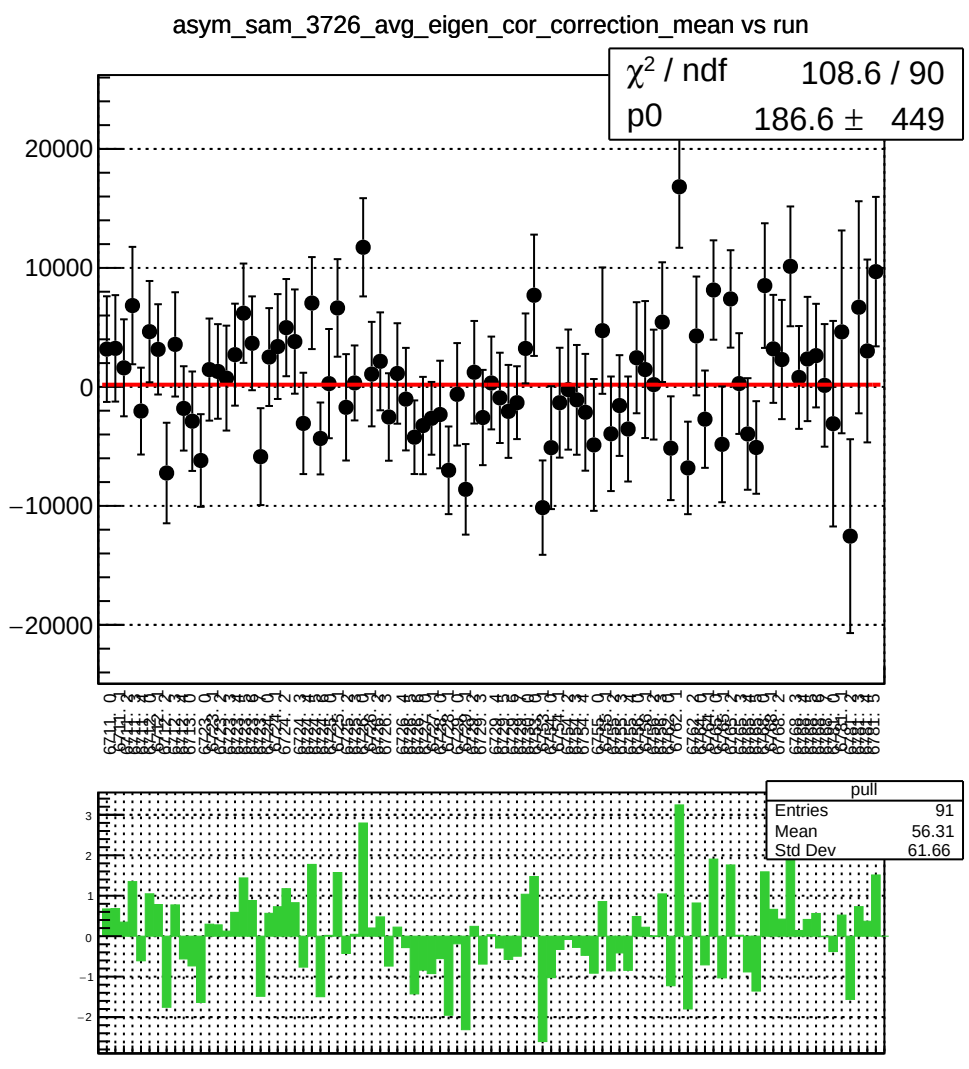

pull1D
Entries 91
Mean 0.04618
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

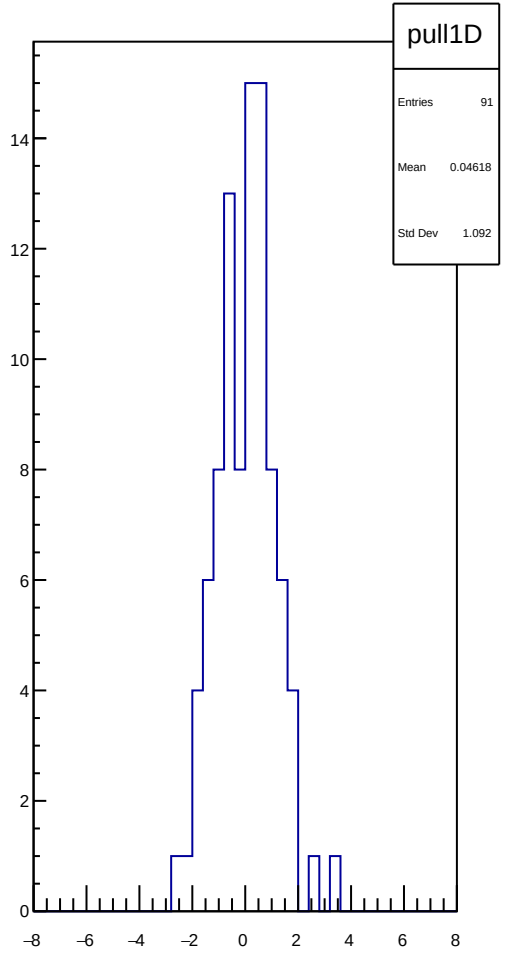

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 4.865e+04 / 90
p0 420.7 ± 0.3175
900
800
700
600
500
400
300

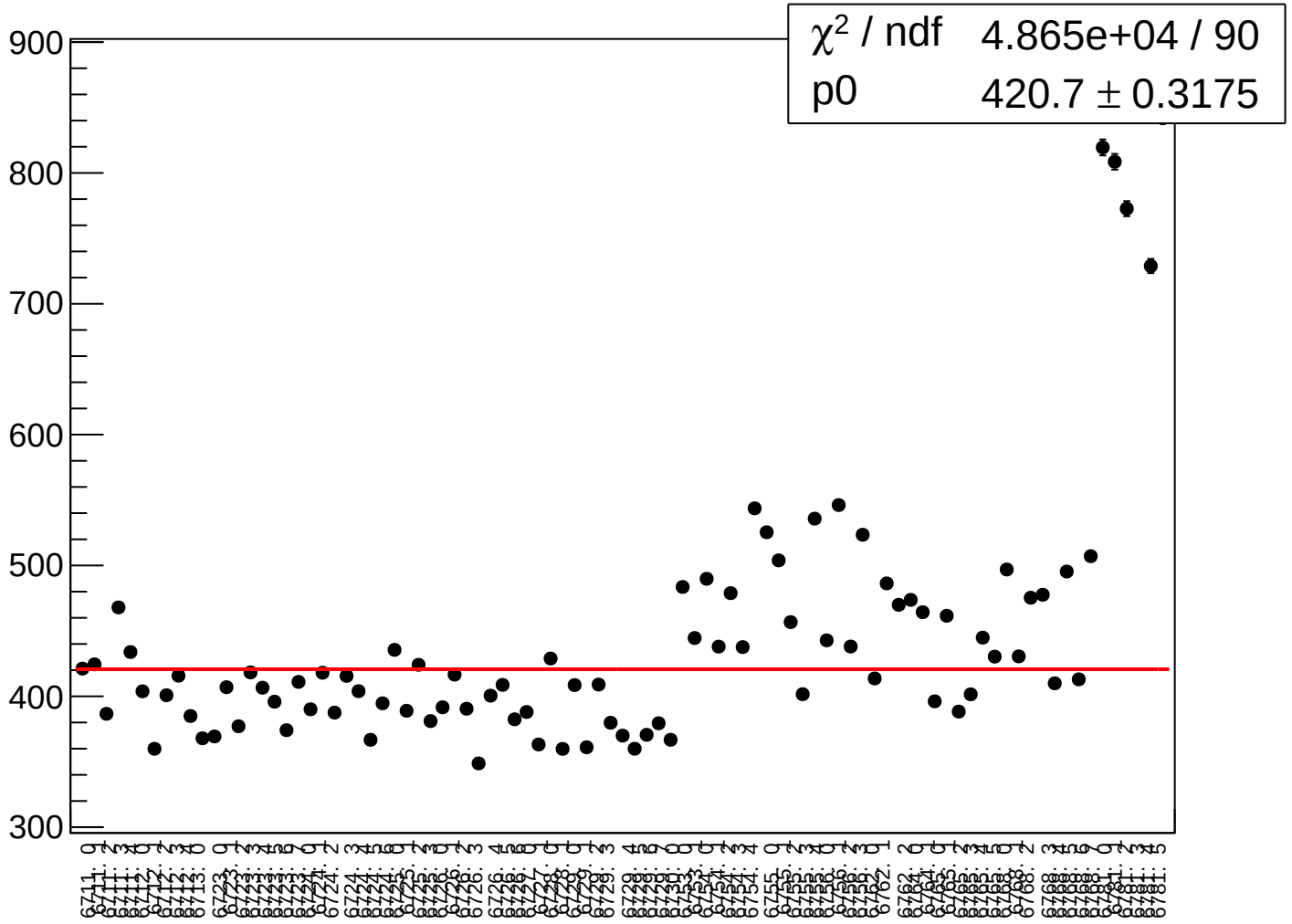

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 92.91 / 90
p0 −66.82 ± 60.35
pull
Entries 91
Mean −48.08
Std Dev 0

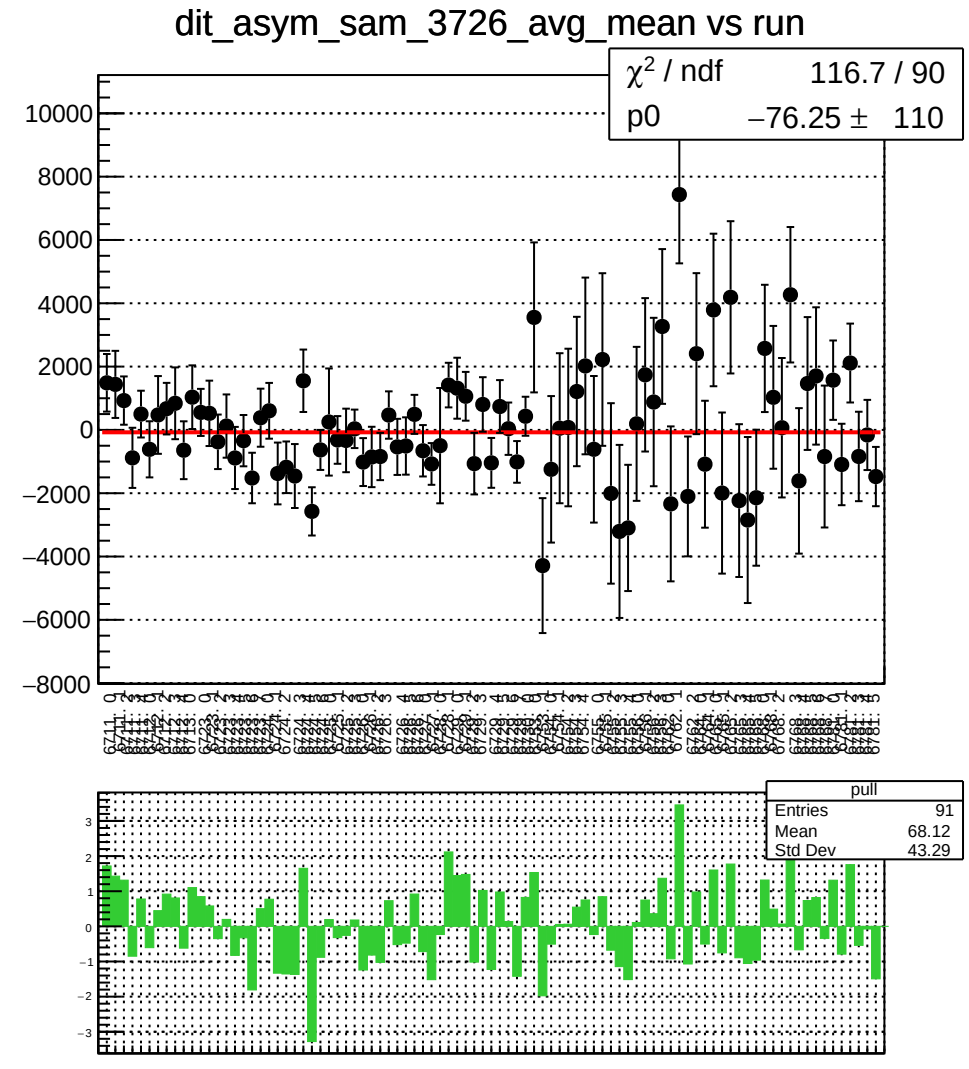

pull1D
Entries 91
Mean 0.04465
Std Dev 1.009

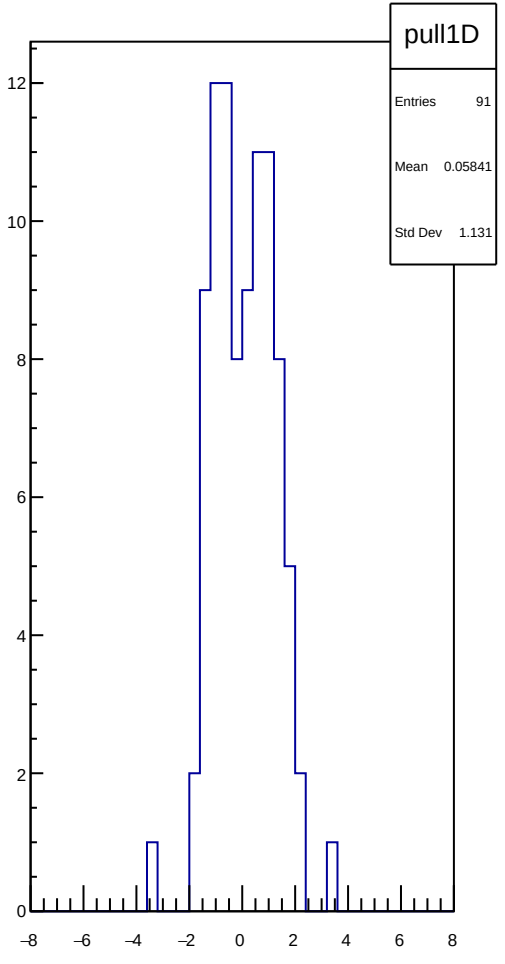

eigen_cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 7.937e+04 / 90
p0 56.05 ± 0.04267
220
200
180
160
140
120
100
80
60
40

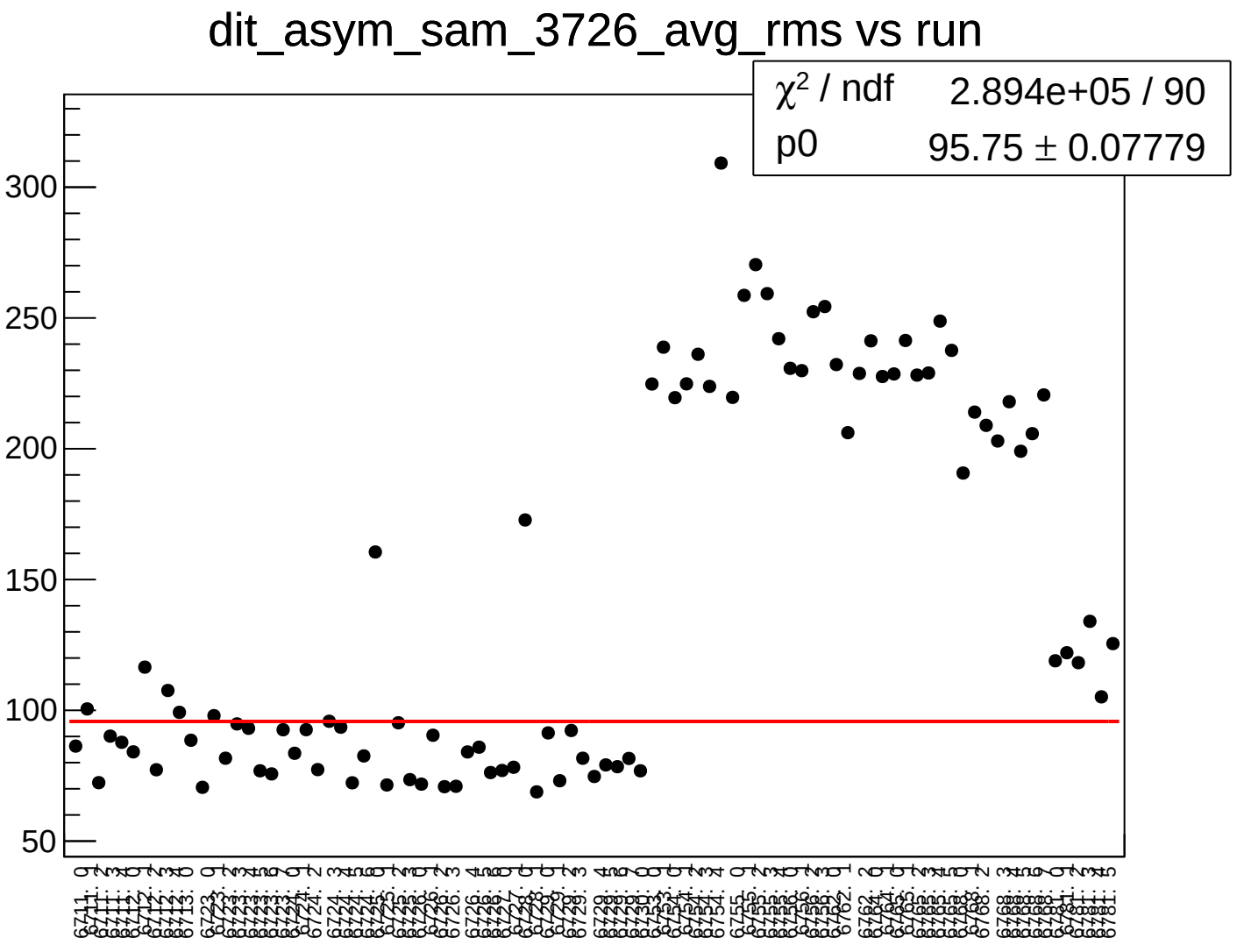

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 108.6 / 90
p0 186.6 ± 449
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 56.31
Std Dev 61.66
3
2
1
0
−1
−2

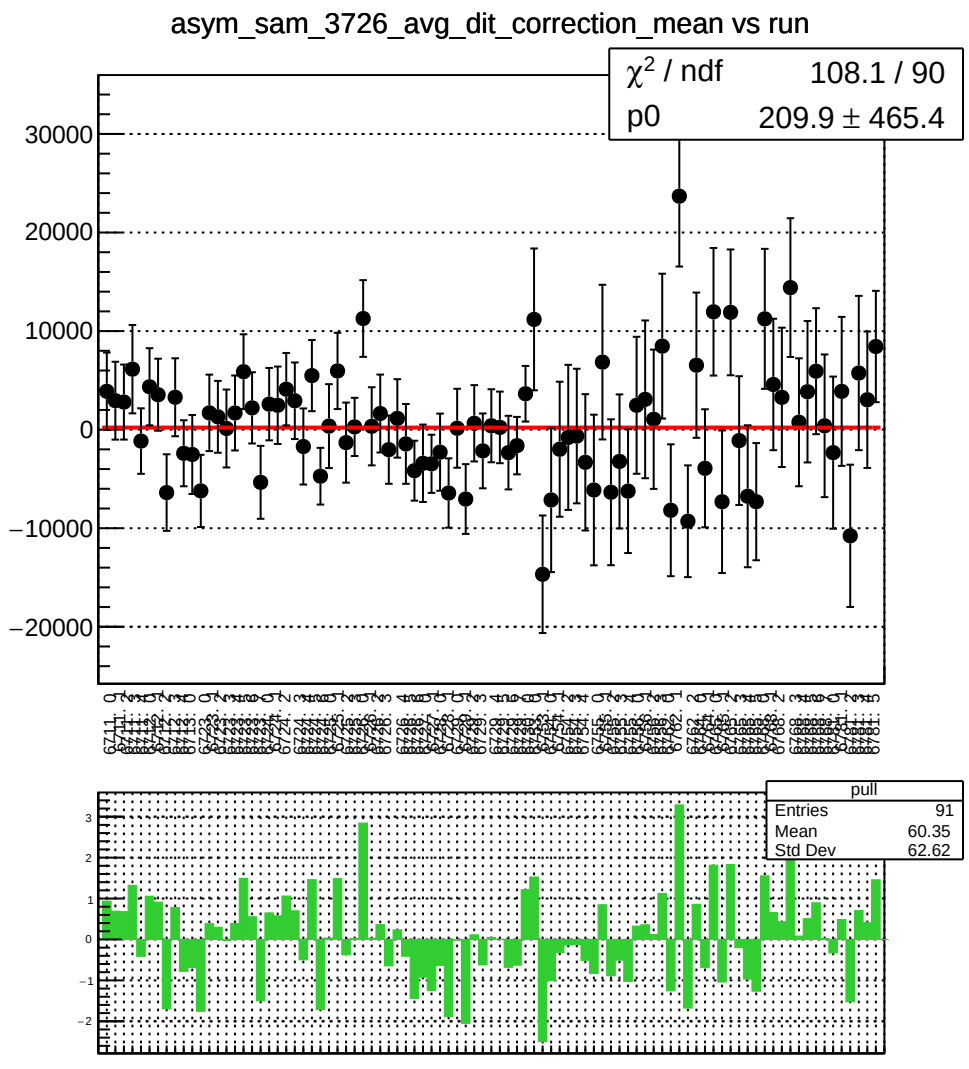

pull1D
Entries 91
Mean 0.04618
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

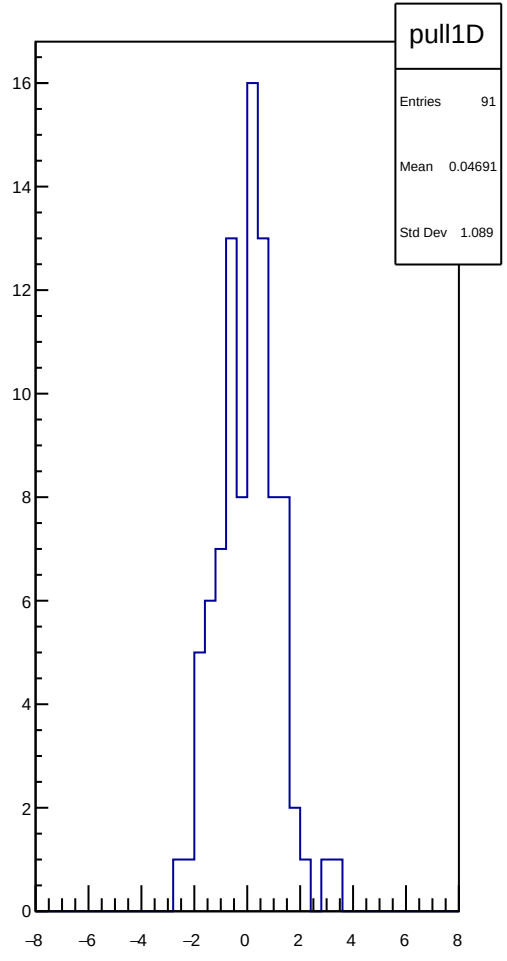

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.865e+04 / 90
p0 420.7 ± 0.3175
900
800
700
600
500
400
300

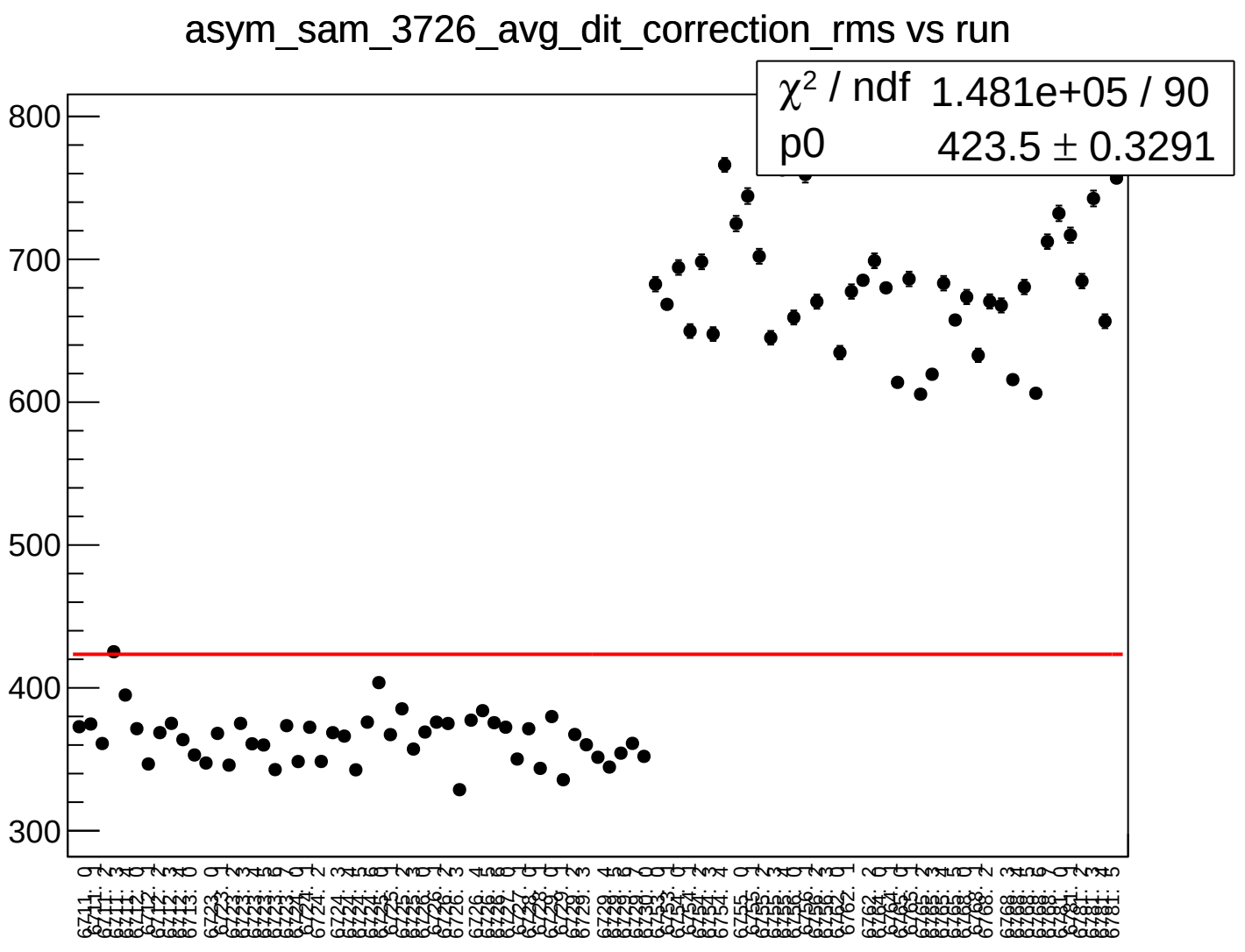

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 116.7 / 90
p0 −76.25 ± 110
pull
Entries 91
Mean 68.12
Std Dev 43.29

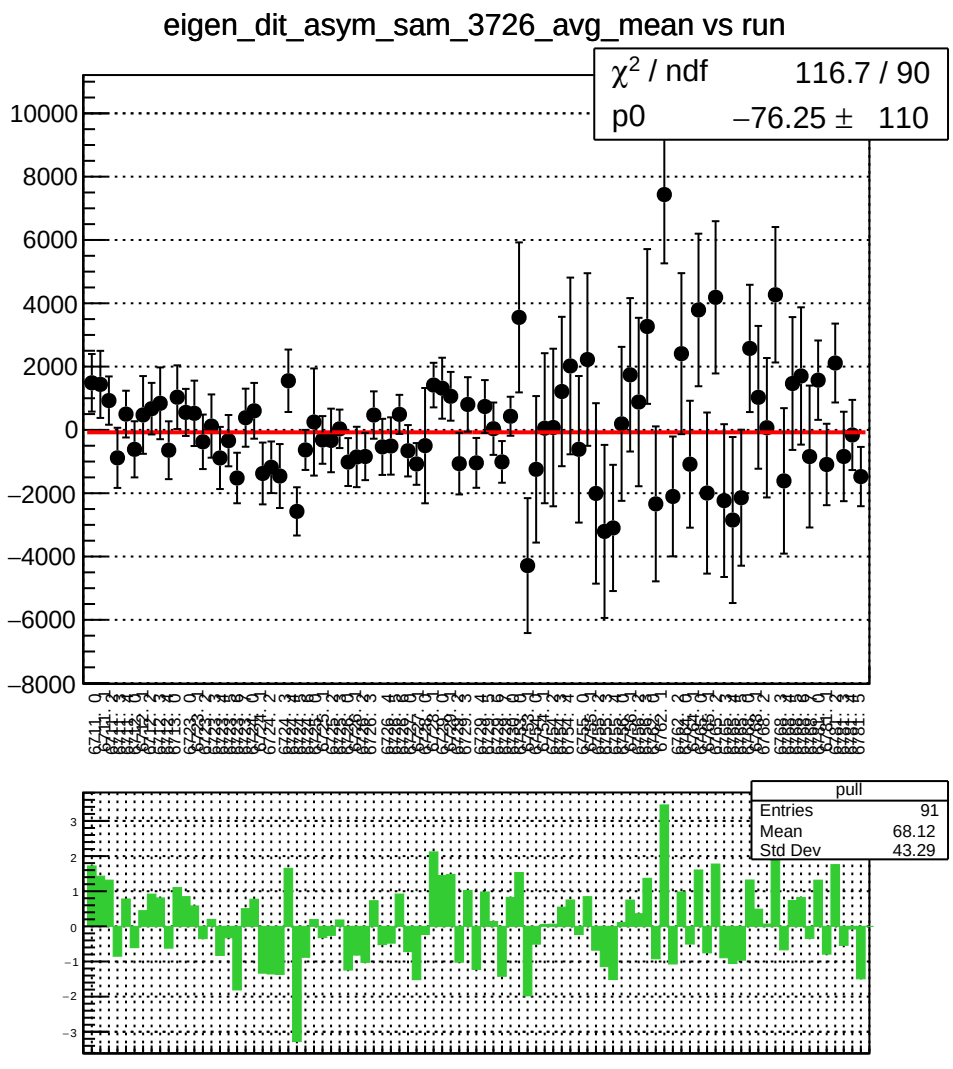

pull1D
Entries 91
Mean 0.05841
Std Dev 1.131

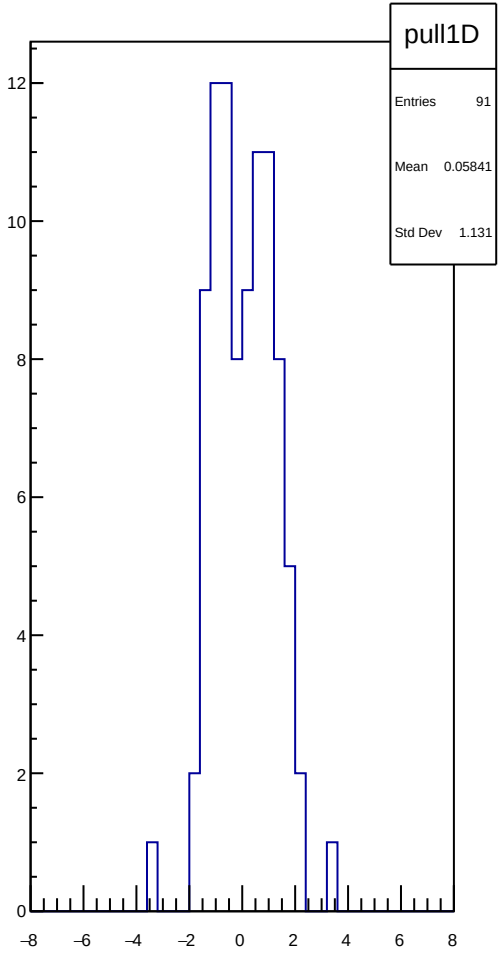

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 2.894e+05 / 90
p0 95.75 ± 0.07779
300
250
200
150
100
50

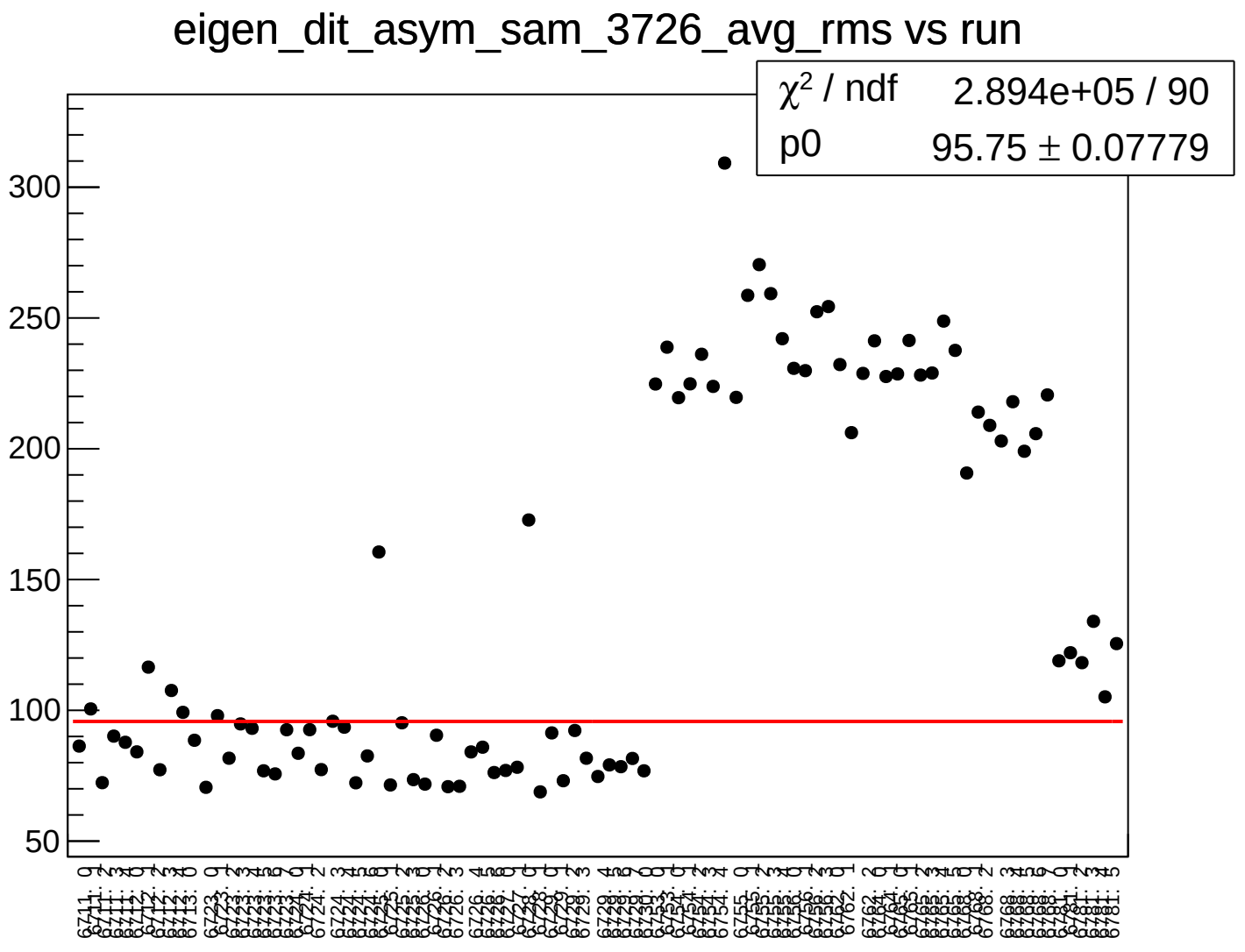

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 108.1 / 90
p0 209.9 ± 465.4
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 60.35
Std Dev 62.62
3
2
1
0
−1
−2

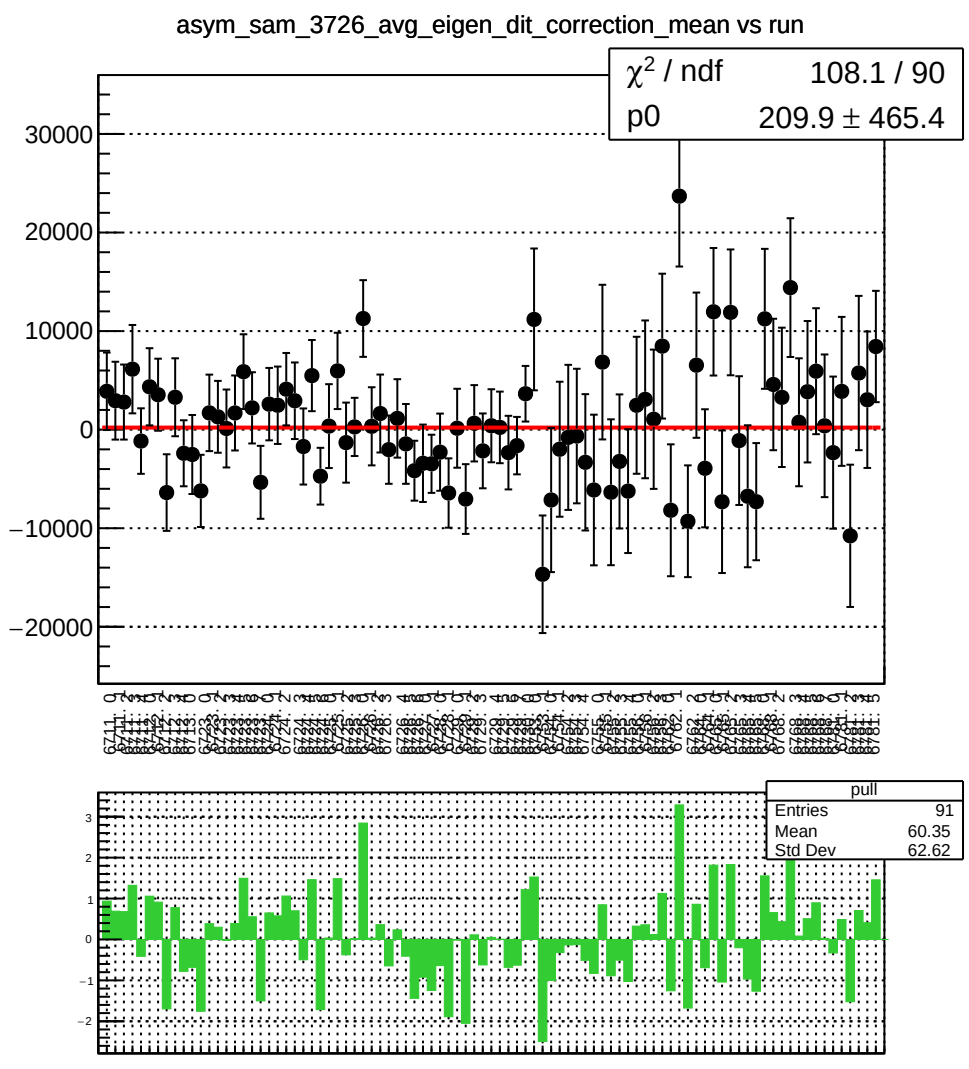

pull1D
Entries 91
Mean 0.04691
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

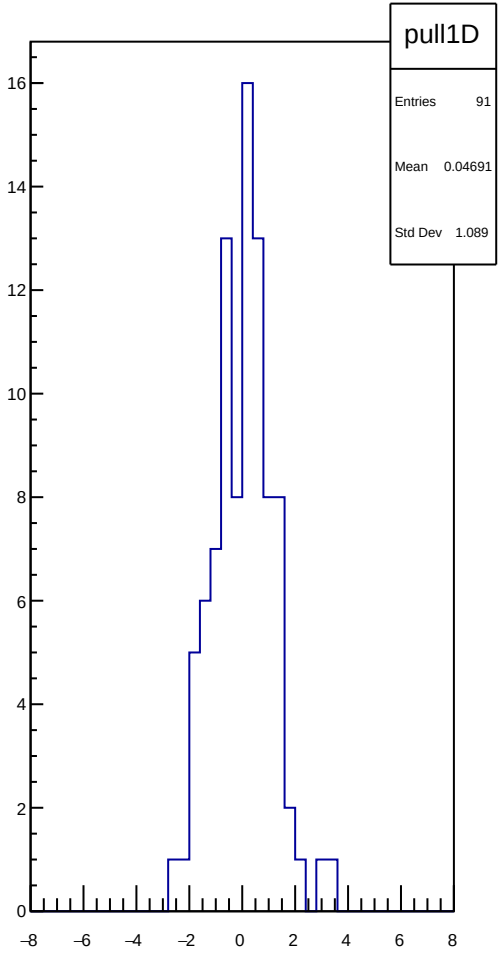

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 1.481e+05 / 90
p0 423.5 ± 0.3291
800
700
600
500
400
300

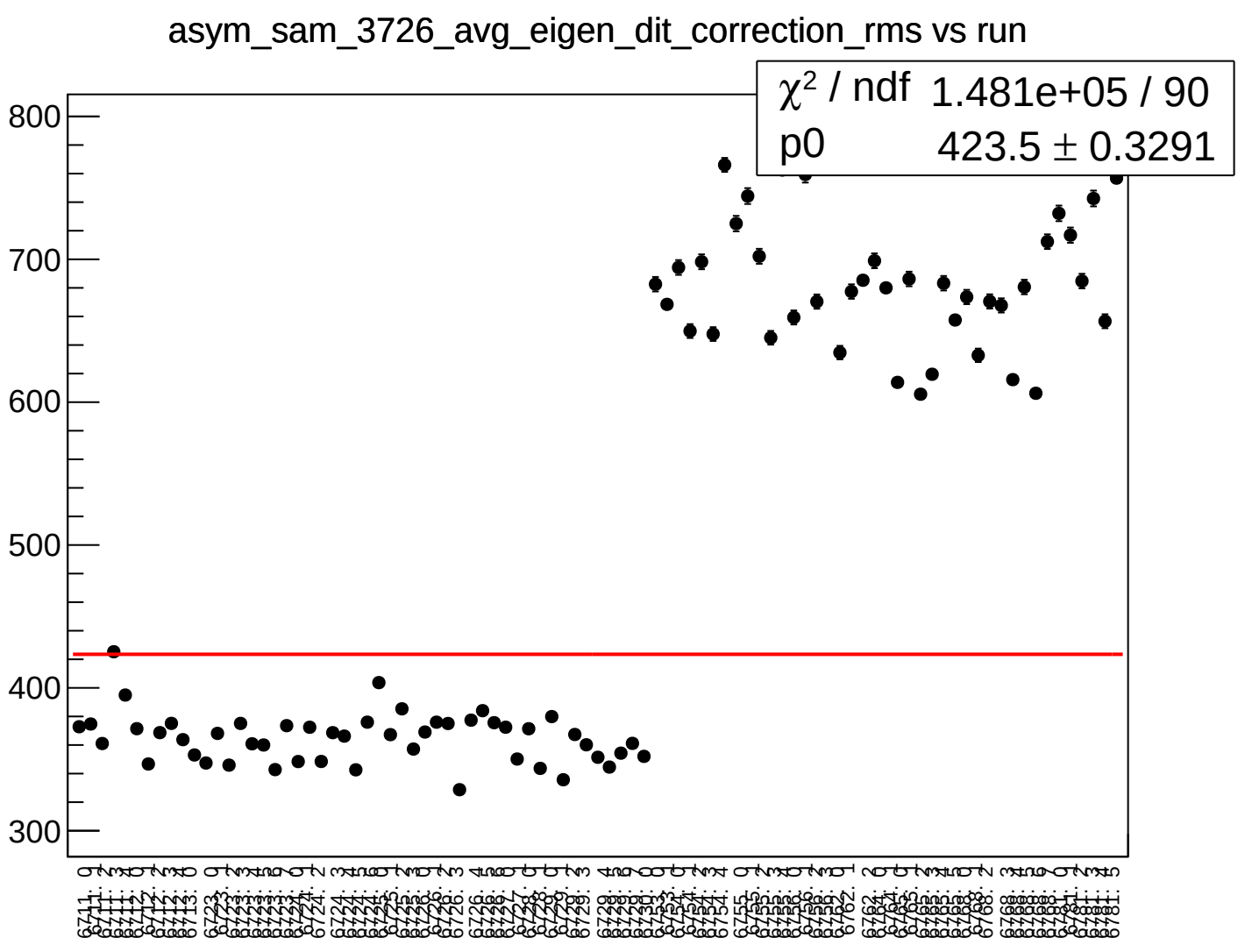

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 116.7 / 90
p0 −76.25 ± 110
pull
Entries 91
Mean 68.12
Std Dev 43.29

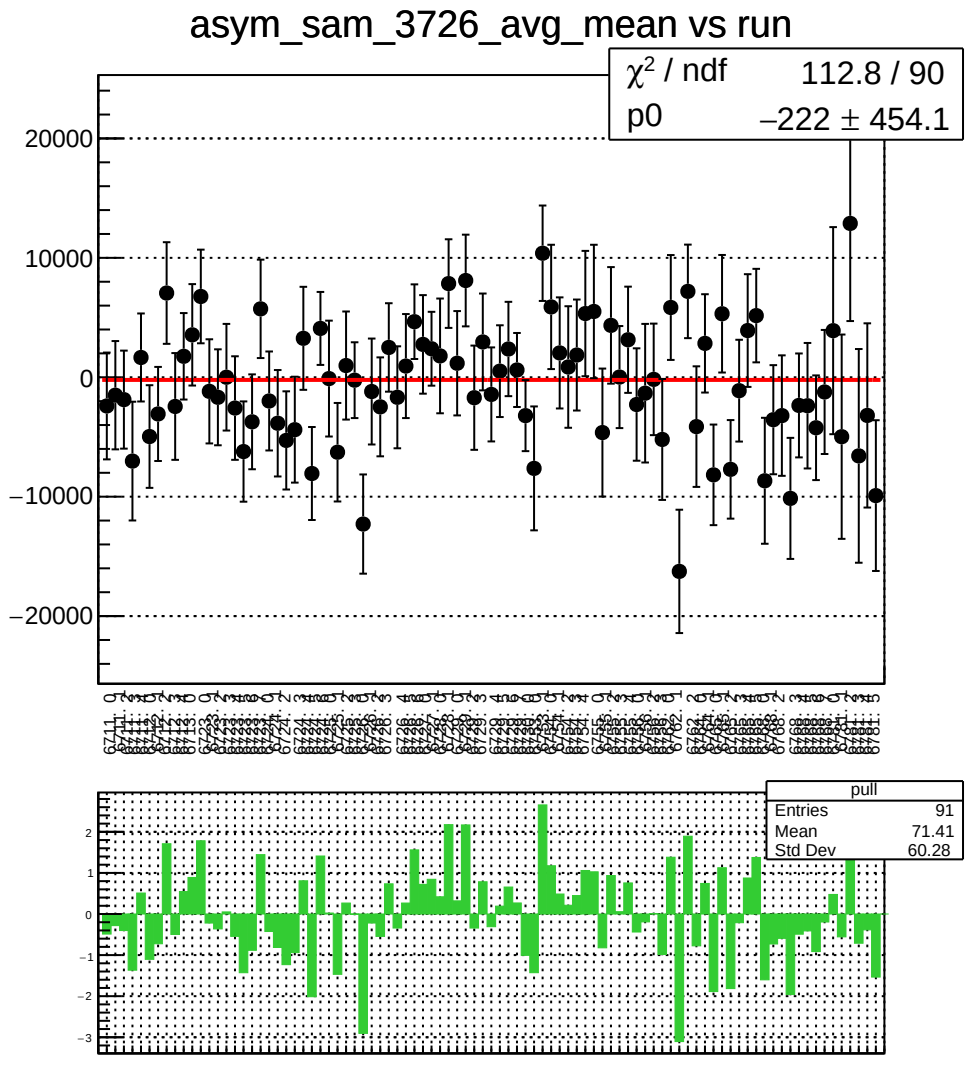

pull1D
Entries 91
Mean 0.05841
Std Dev 1.131

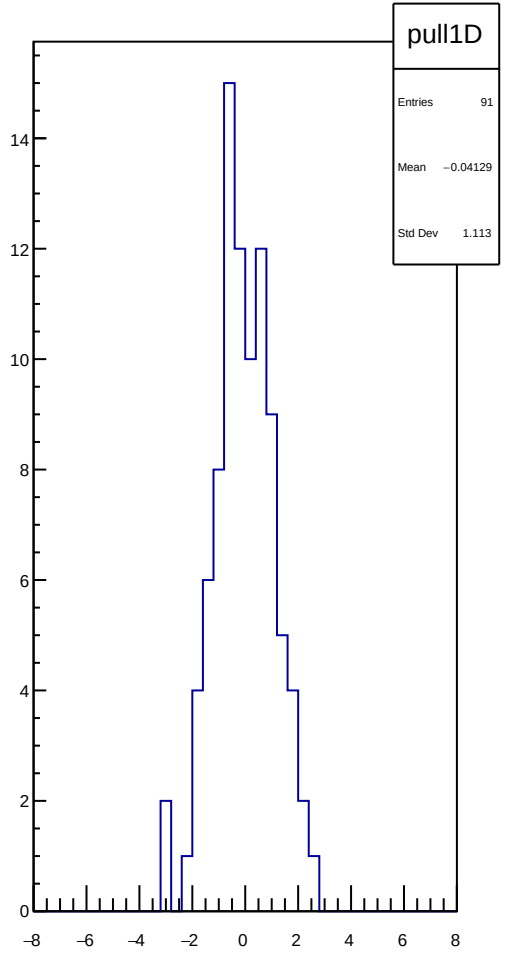

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 2.894e+05 / 90
p0 95.75 ± 0.07779
300
250
200
150
100
50

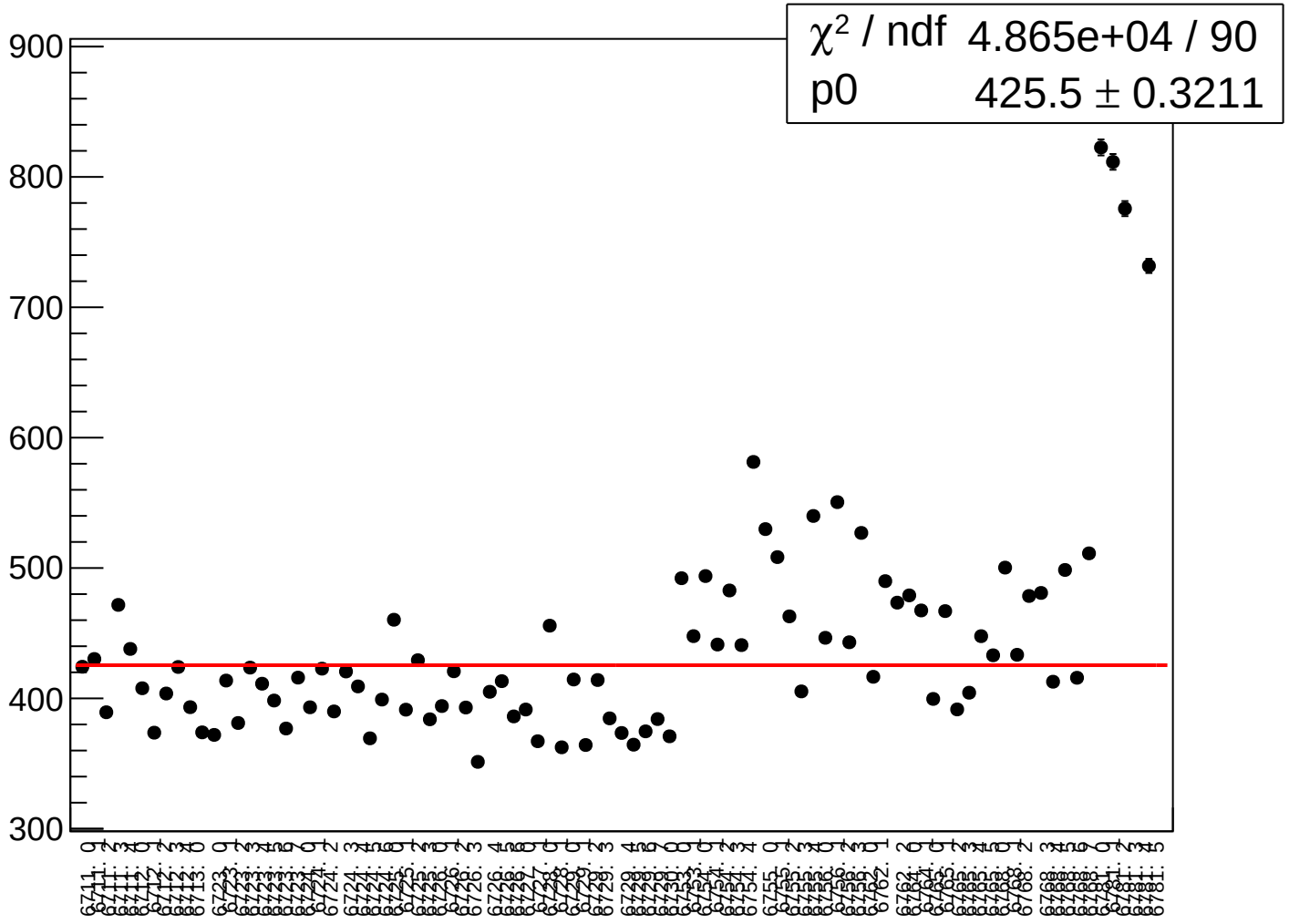

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 108.1 / 90
p0 209.9 ± 465.4
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 60.35
Std Dev 62.62
3
2
1
0
−1
−2

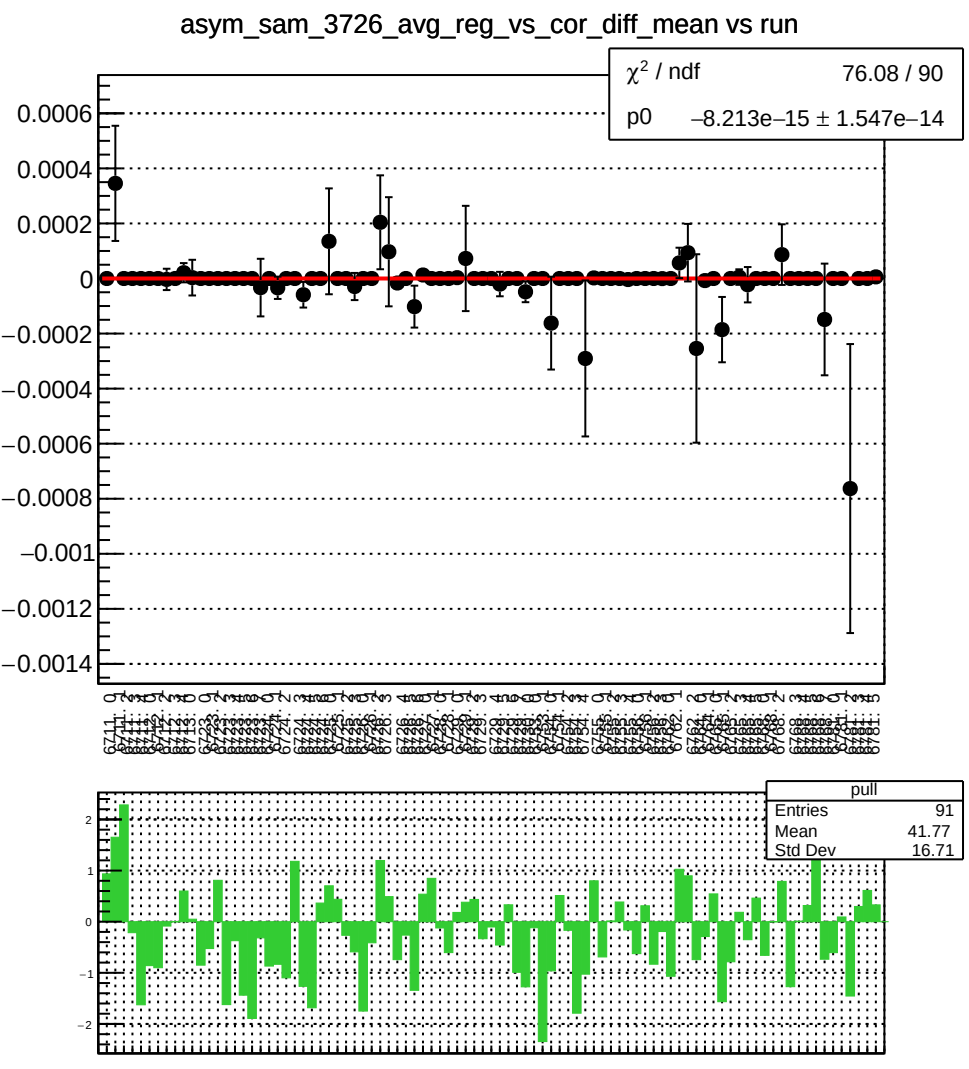

pull1D
Entries 91
Mean 0.04691
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

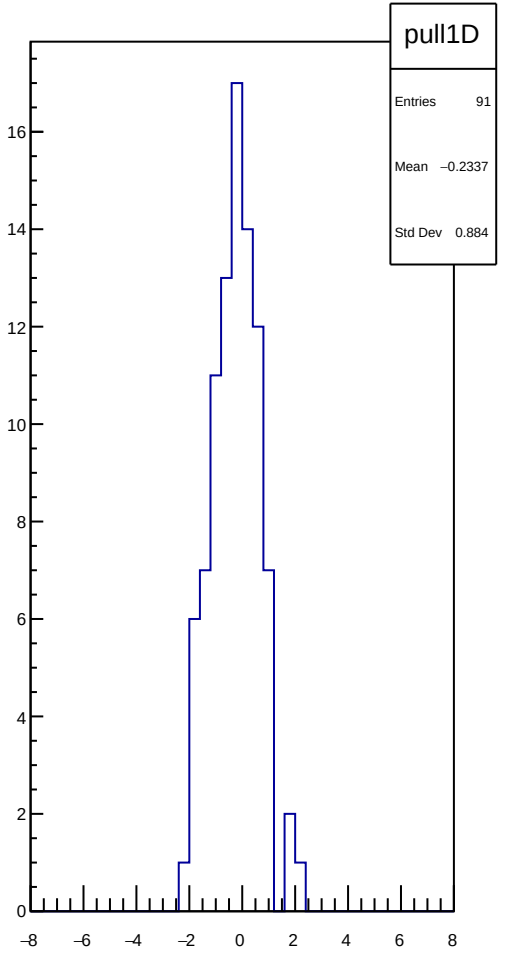

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.481e+05 / 90
p0 423.5 ± 0.3291
800
700
600
500
400
300

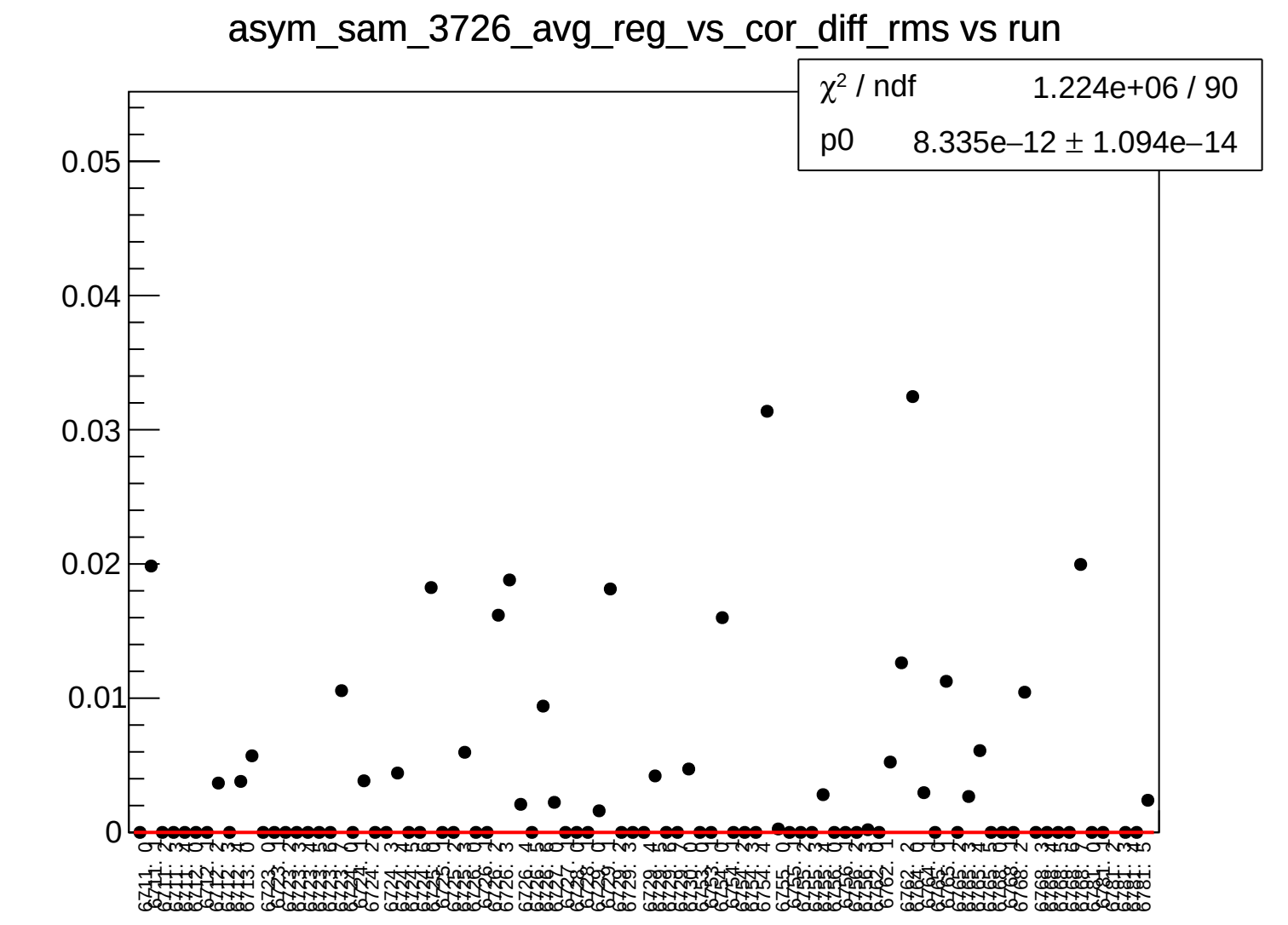

asym_sam_3726_avg_mean vs run
χ² / ndf 112.8 / 90
p0 −222 ± 454.1
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 71.41
Std Dev 60.28
2
1
0
−1
−2
−3

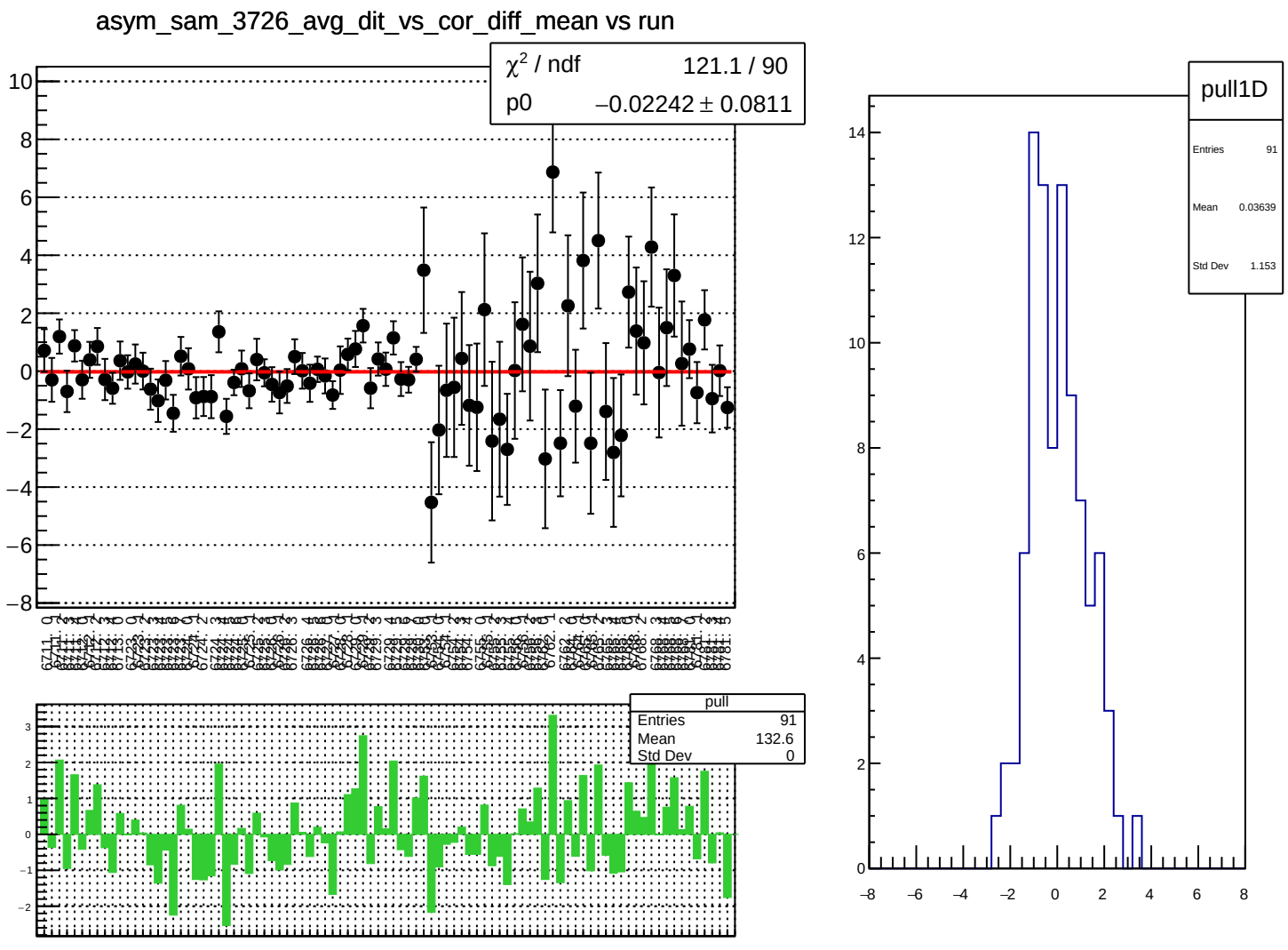

pull1D
Entries 91
Mean −0.04129
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

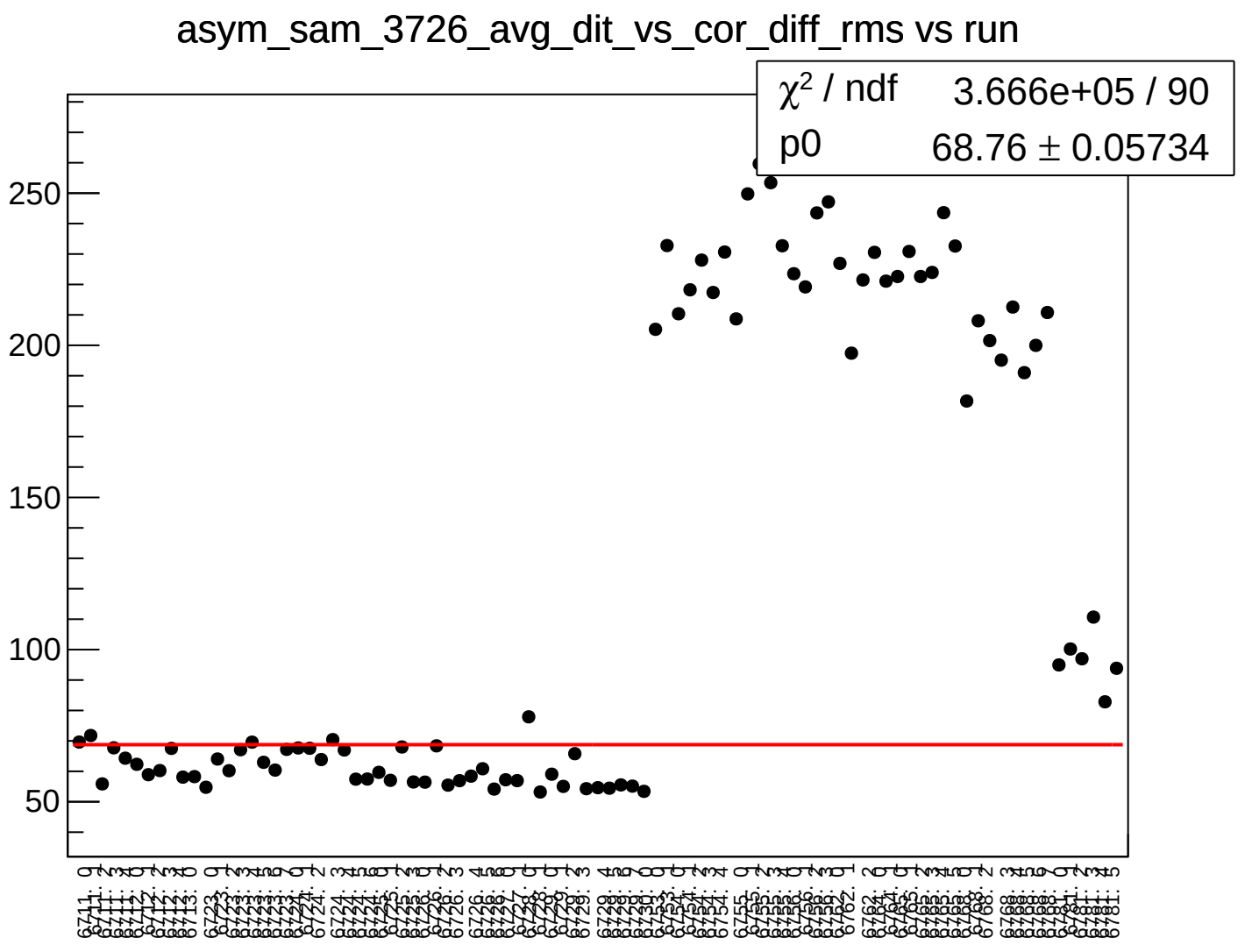

asym_sam_3726_avg_rms vs run
χ² / ndf 4.865e+04 / 90
p0 425.5 ± 0.3211
900
800
700
600
500
400
300

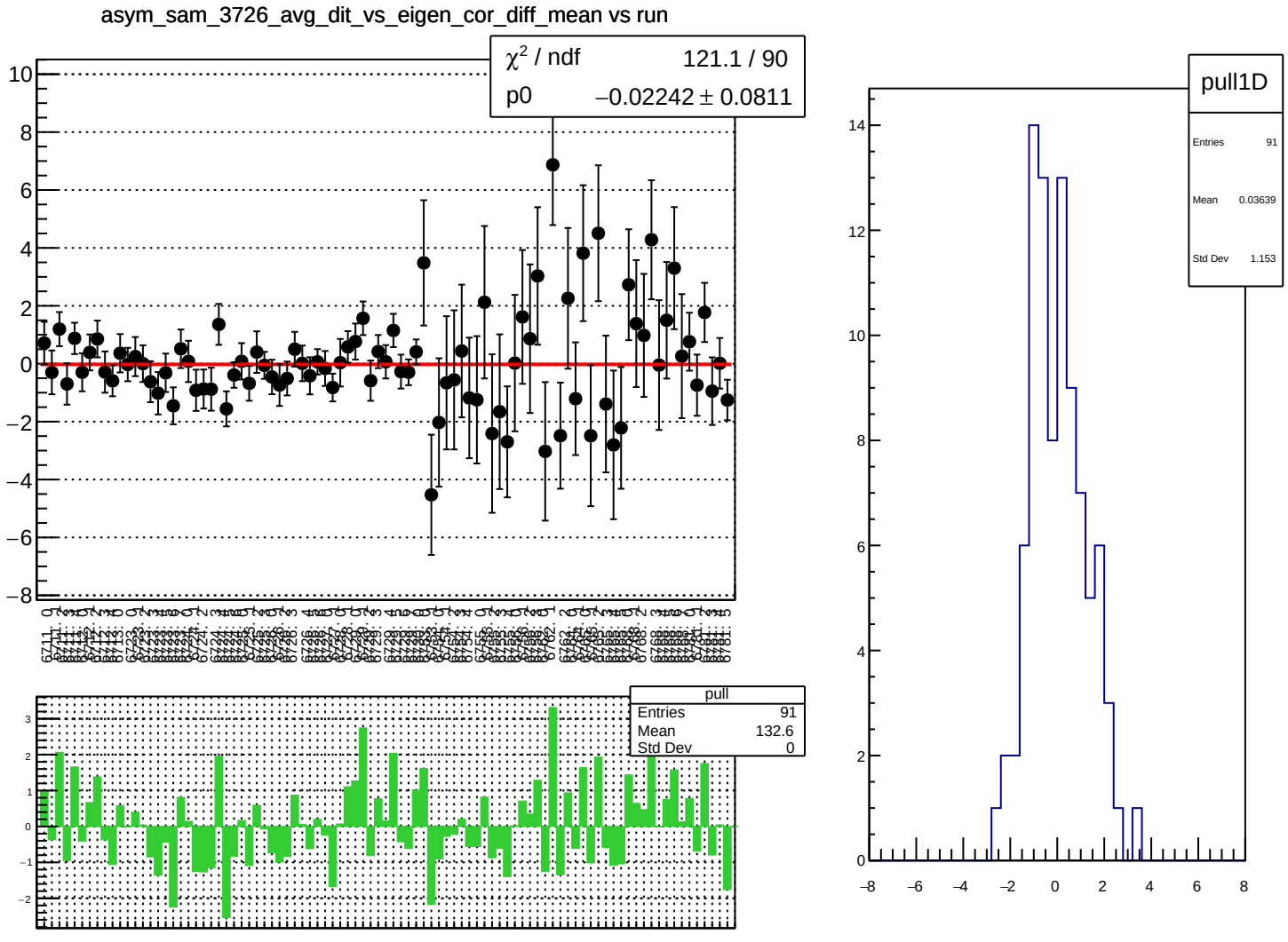

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.08 / 90
p0 −8.213e−15 ± 1.547e−14
pull
Entries 91
Mean 41.77
Std Dev 16.71

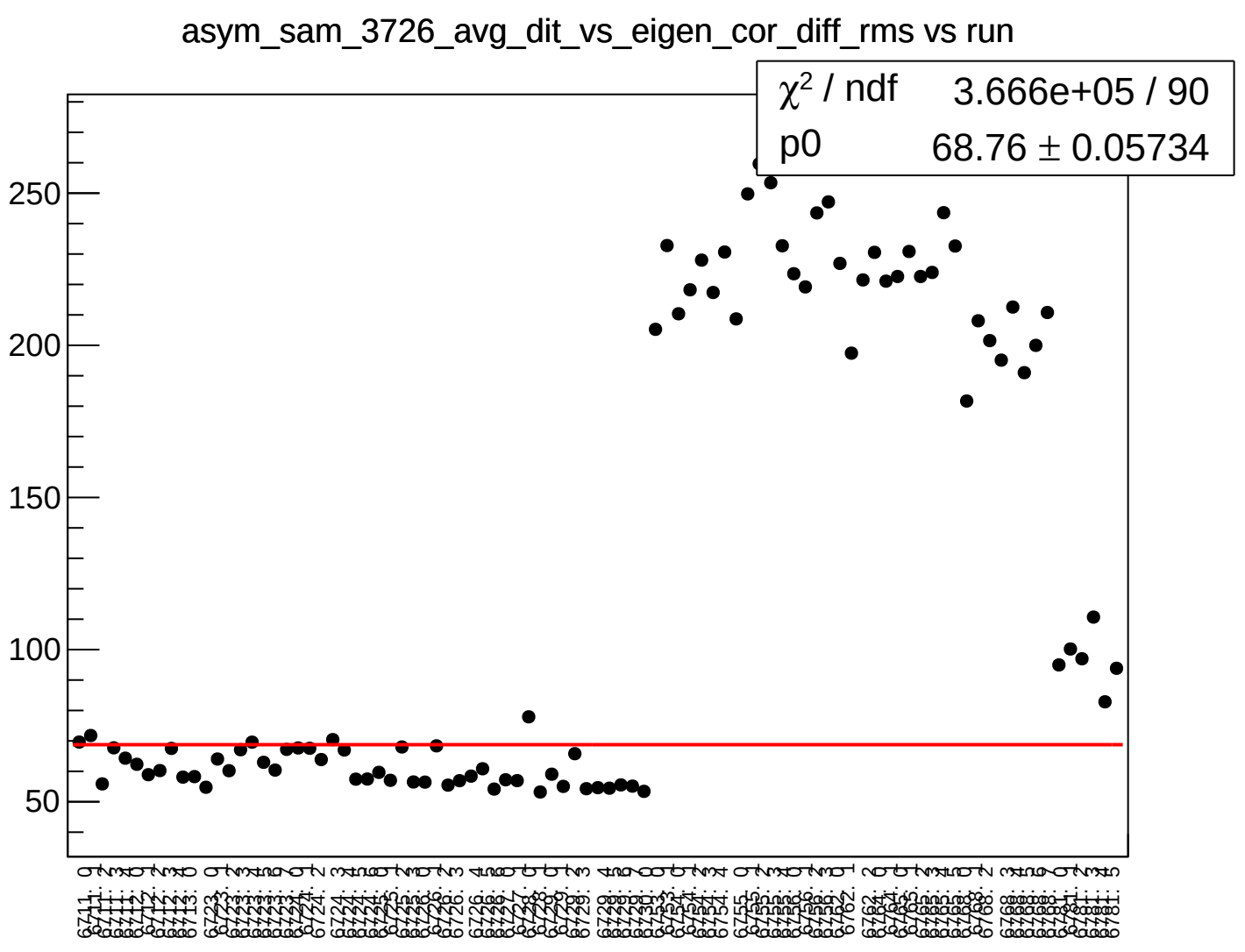

pull1D
Entries 91
Mean −0.2337
Std Dev 0.884

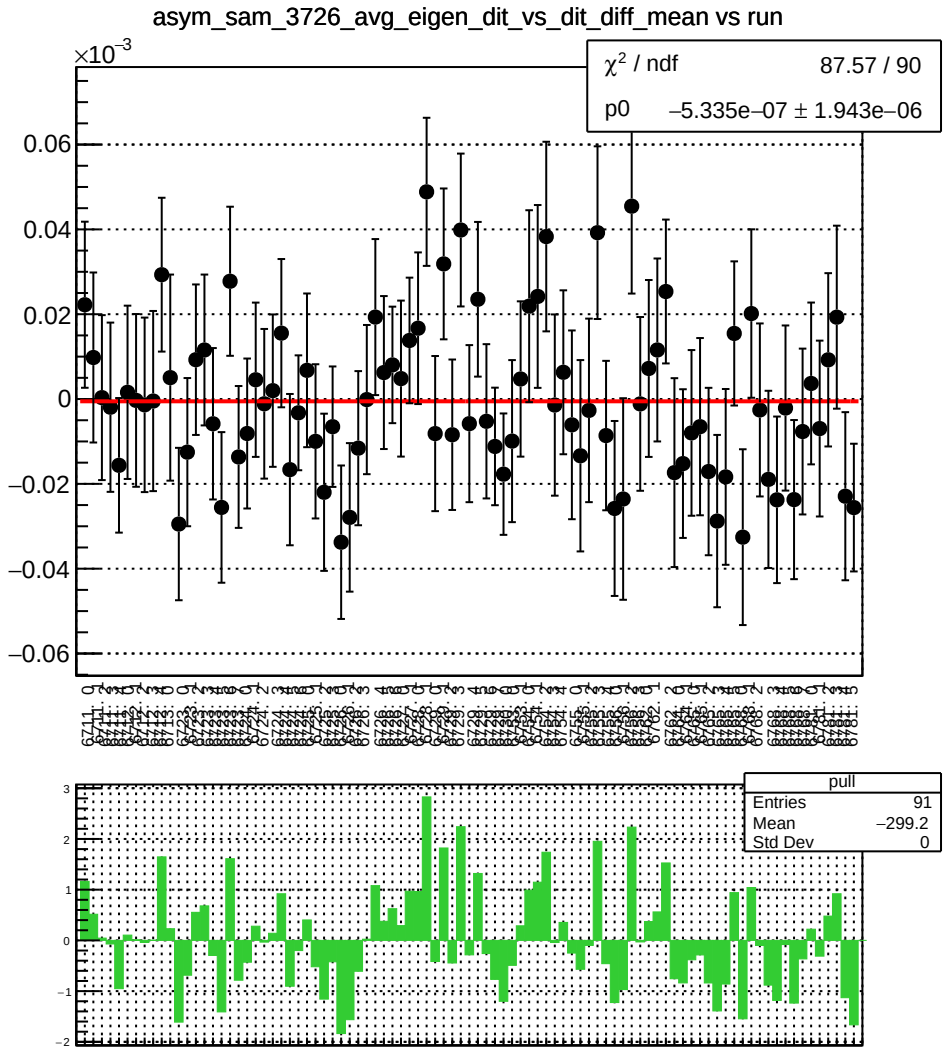

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.224e+06 / 90
p0 8.335e−12 ± 1.094e−14
0.05
0.04
0.03
0.02
0.01
0

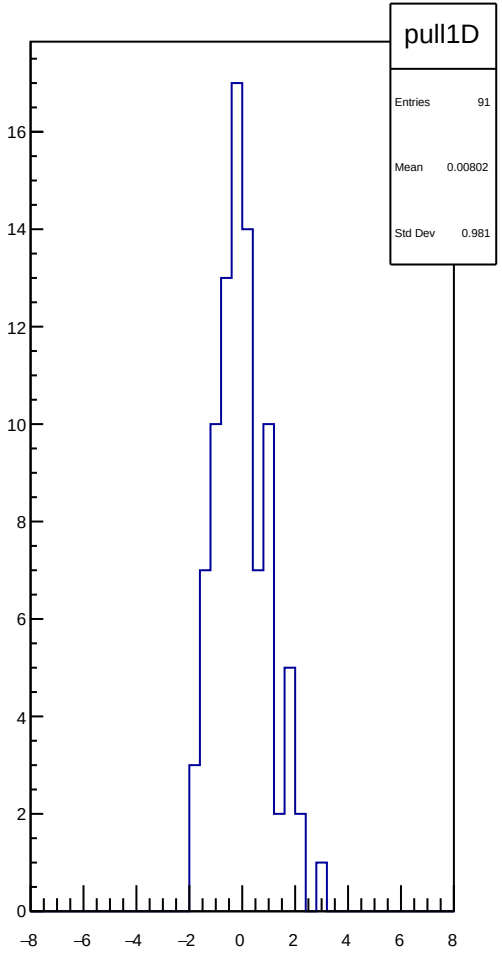

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 121.1 / 90
p0 −0.02242 ± 0.0811
pull
Entries 91
Mean 132.6
Std Dev 0
pull1D
Entries 91
Mean 0.03639
Std Dev 1.153

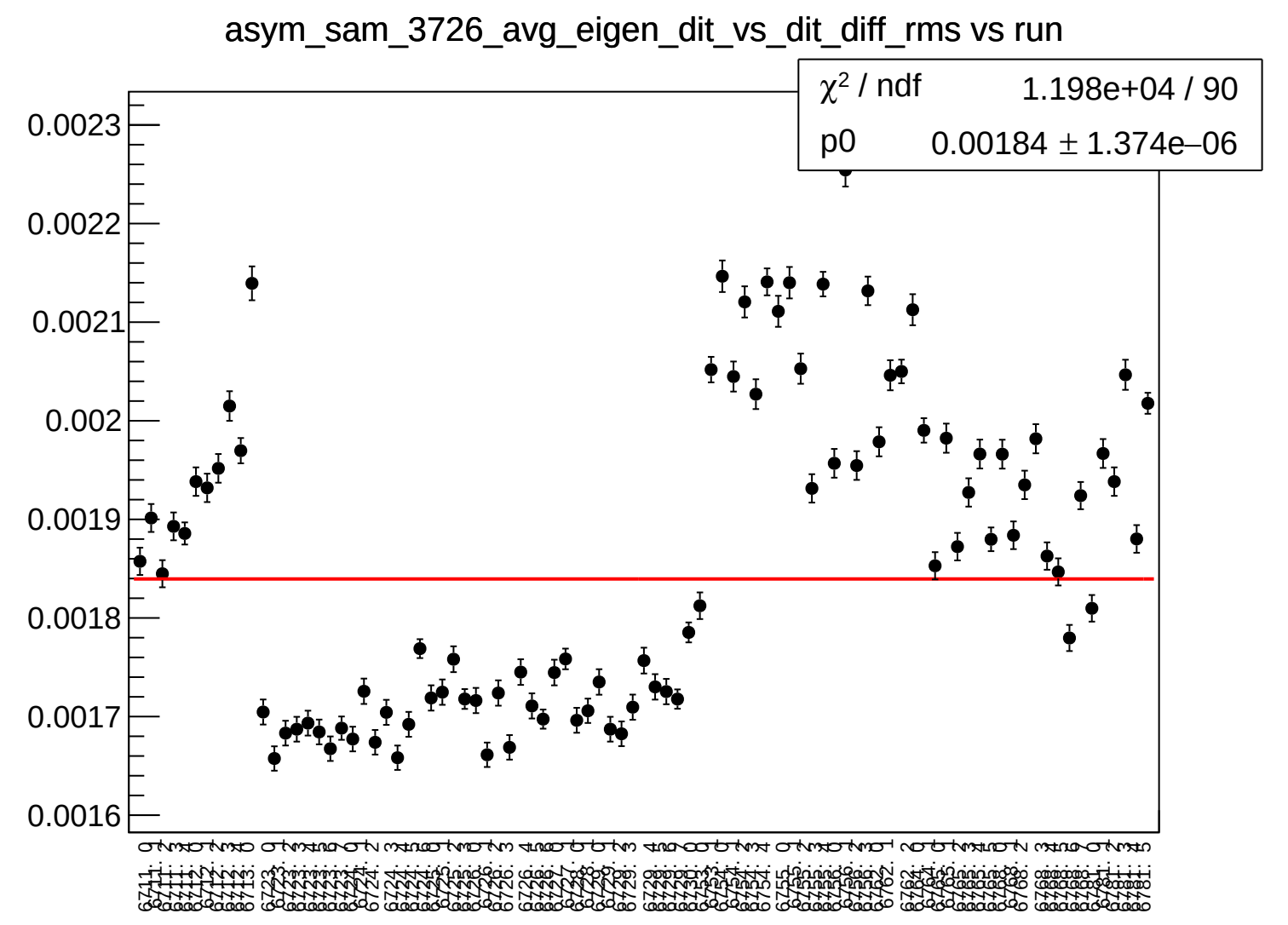

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.666e+05 / 90
p0 68.76 ± 0.05734
250
200
150
100
50

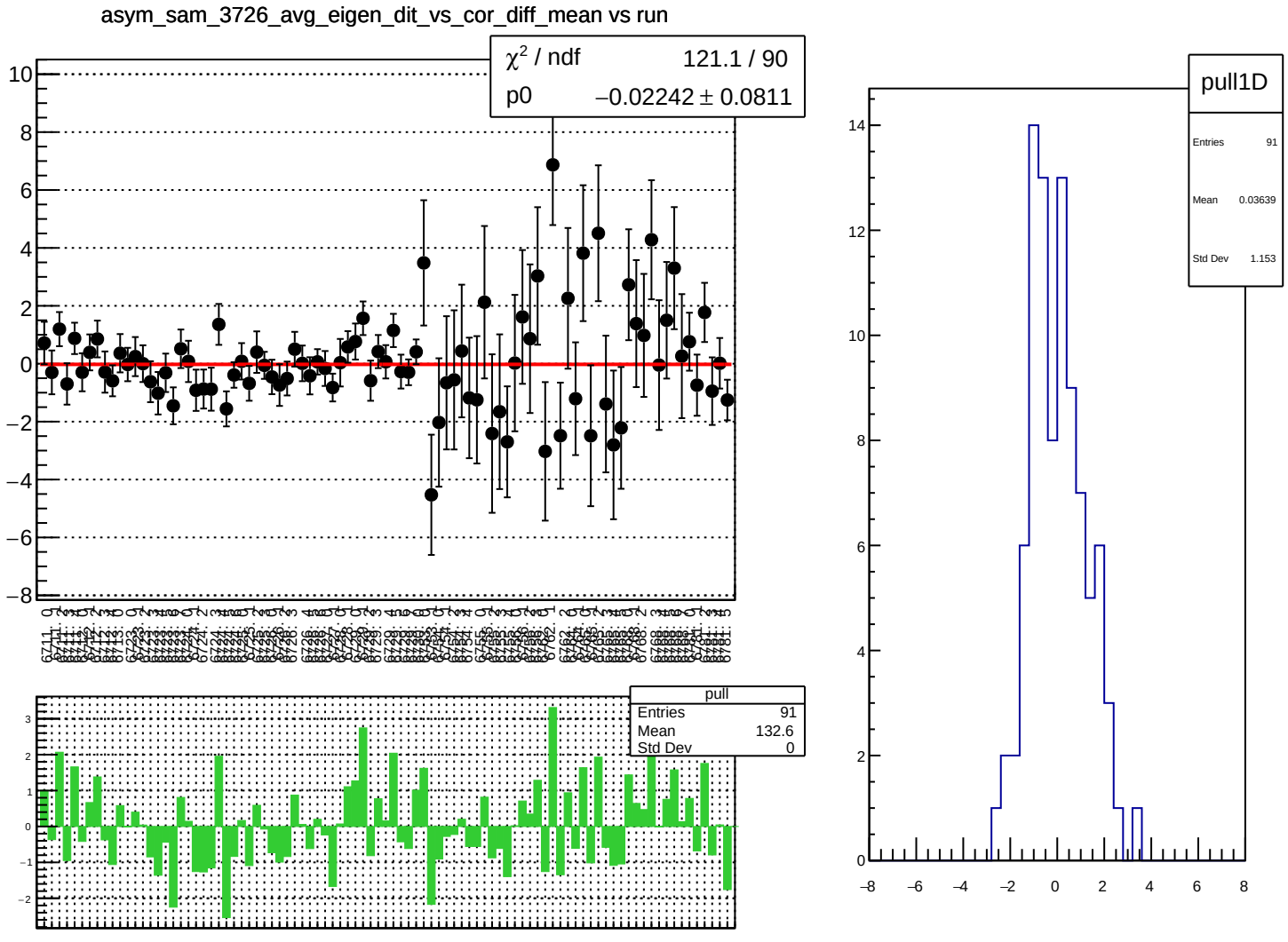

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121.1 / 90
p0 −0.02242 ± 0.0811
pull
Entries 91
Mean 132.6
Std Dev 0
pull1D
Entries 91
Mean 0.03639
Std Dev 1.153

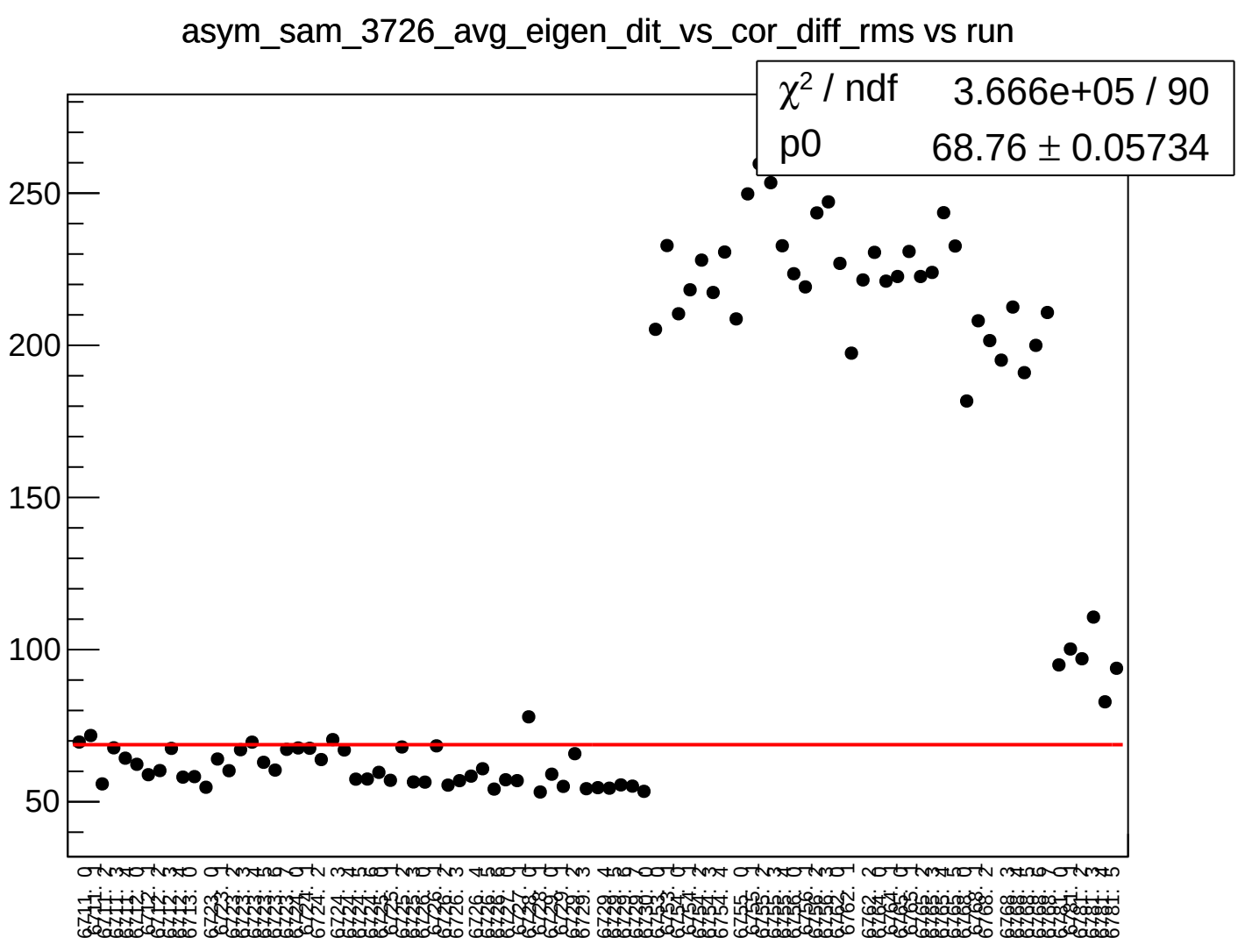

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.666e+05 / 90
p0 68.76 ± 0.05734
250
200
150
100
50

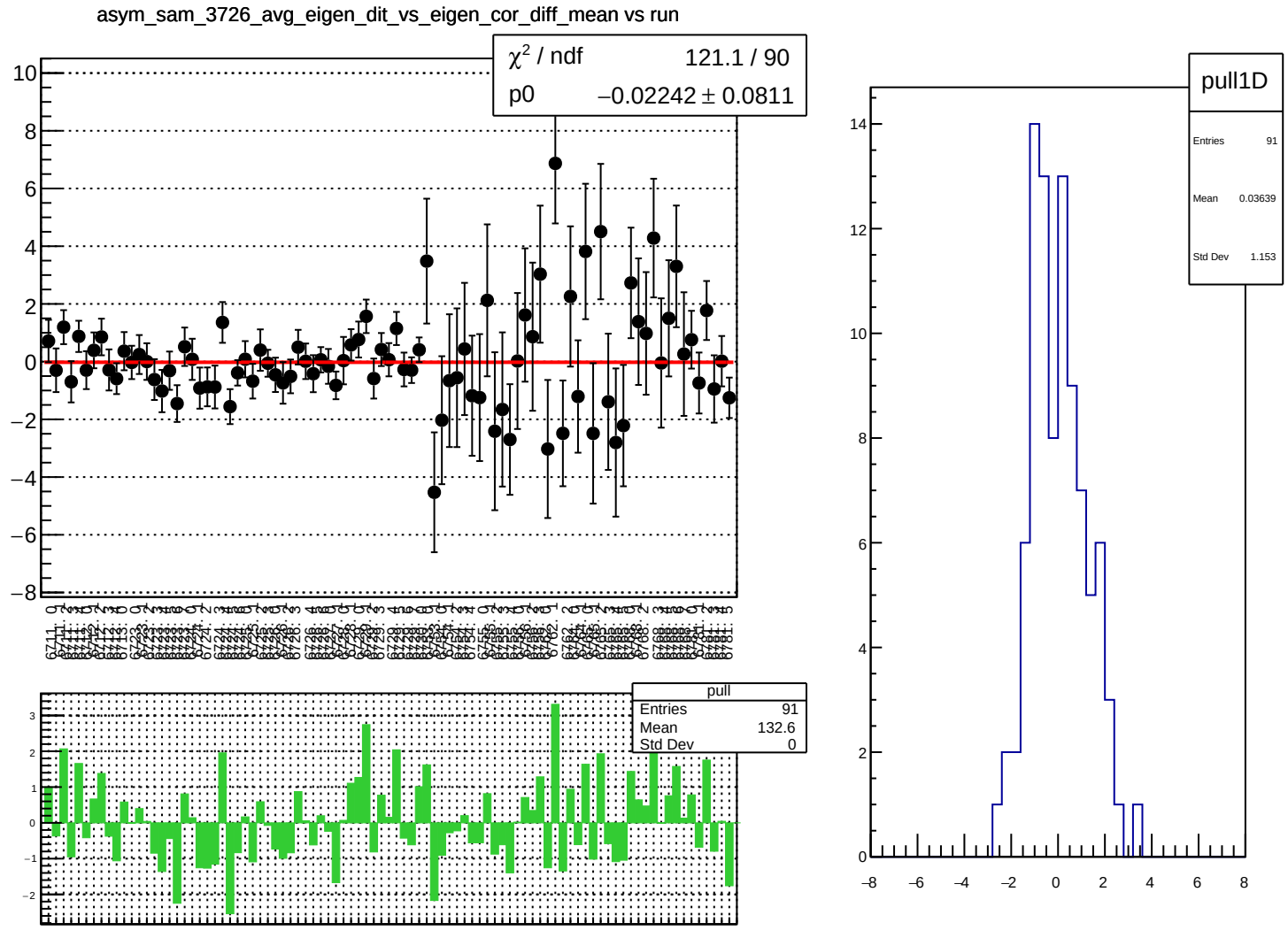

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.57 / 90
p0 −5.335e−07 ± 1.943e−06
pull
Entries 91
Mean −299.2
Std Dev 0

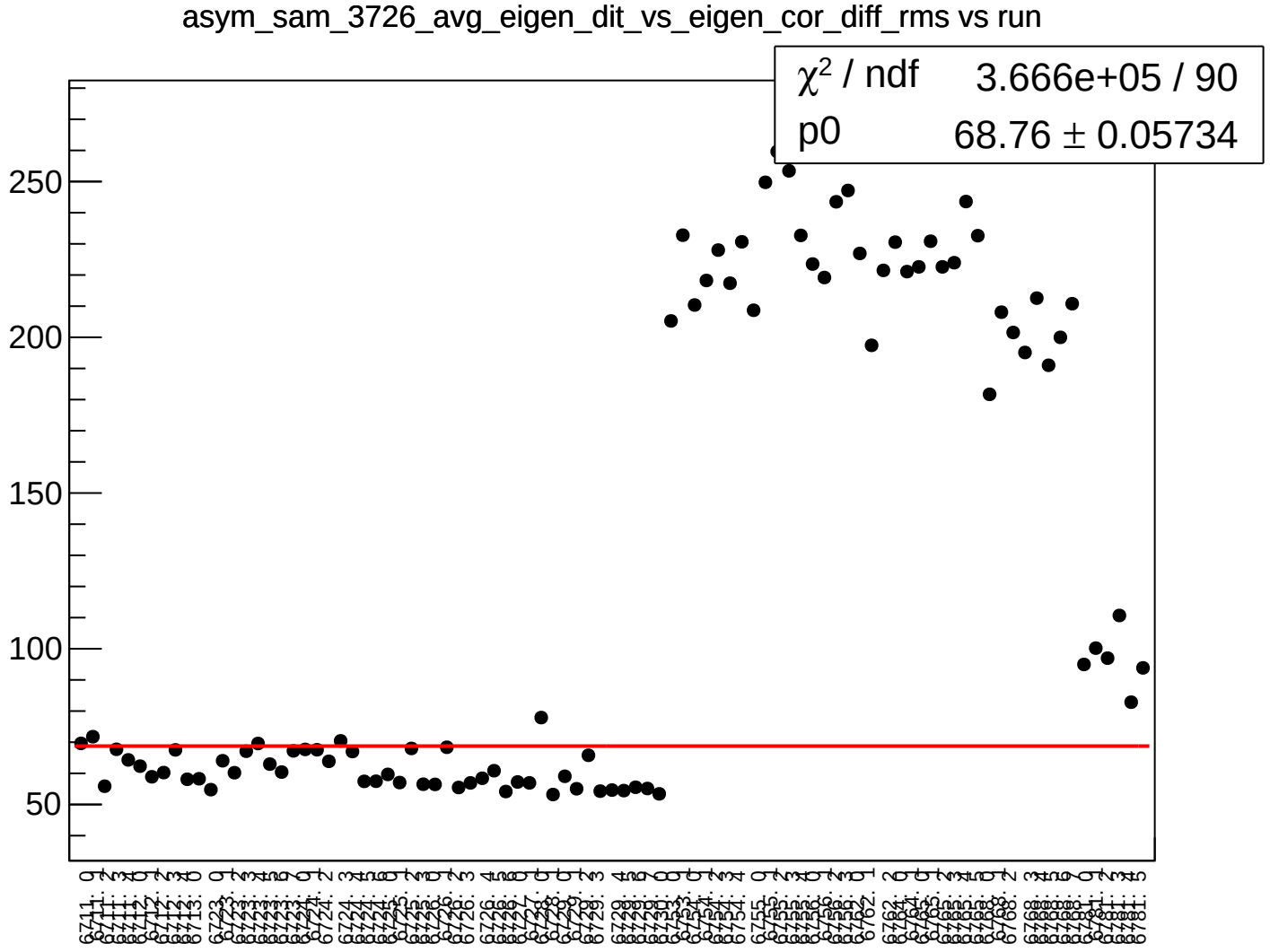

pull1D
Entries 91
Mean 0.00802
Std Dev 0.981

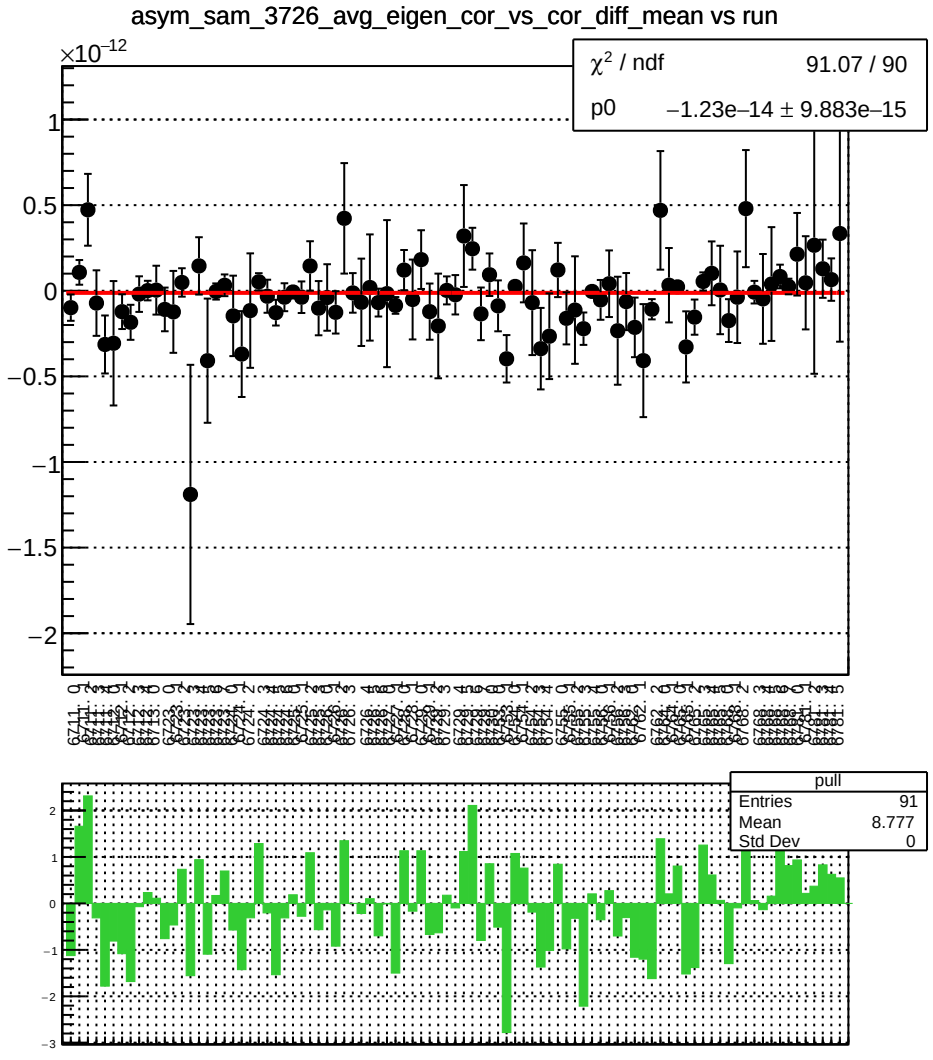

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.198e+04 / 90
p0 0.00184 ± 1.374e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016

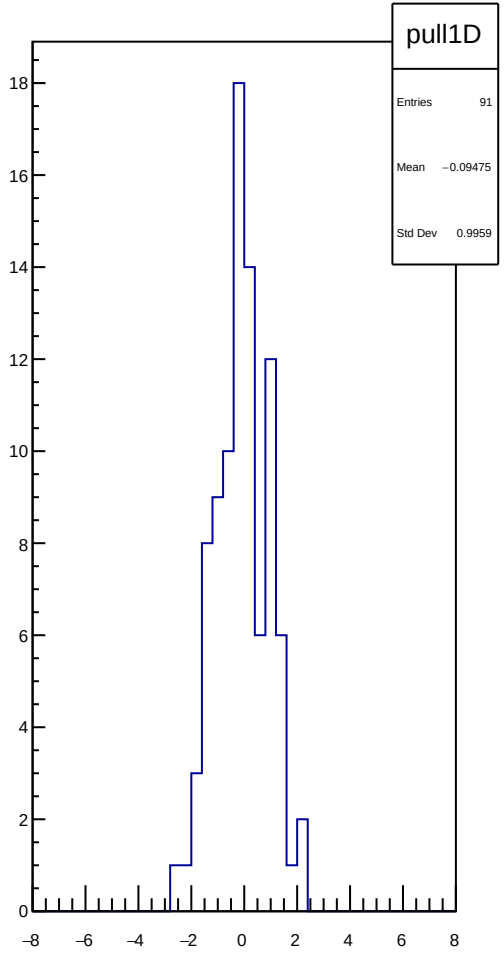

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 121.1 / 90
p0 −0.02242 ± 0.0811
pull
Entries 91
Mean 132.6
Std Dev 0
pull1D
Entries 91
Mean 0.03639
Std Dev 1.153

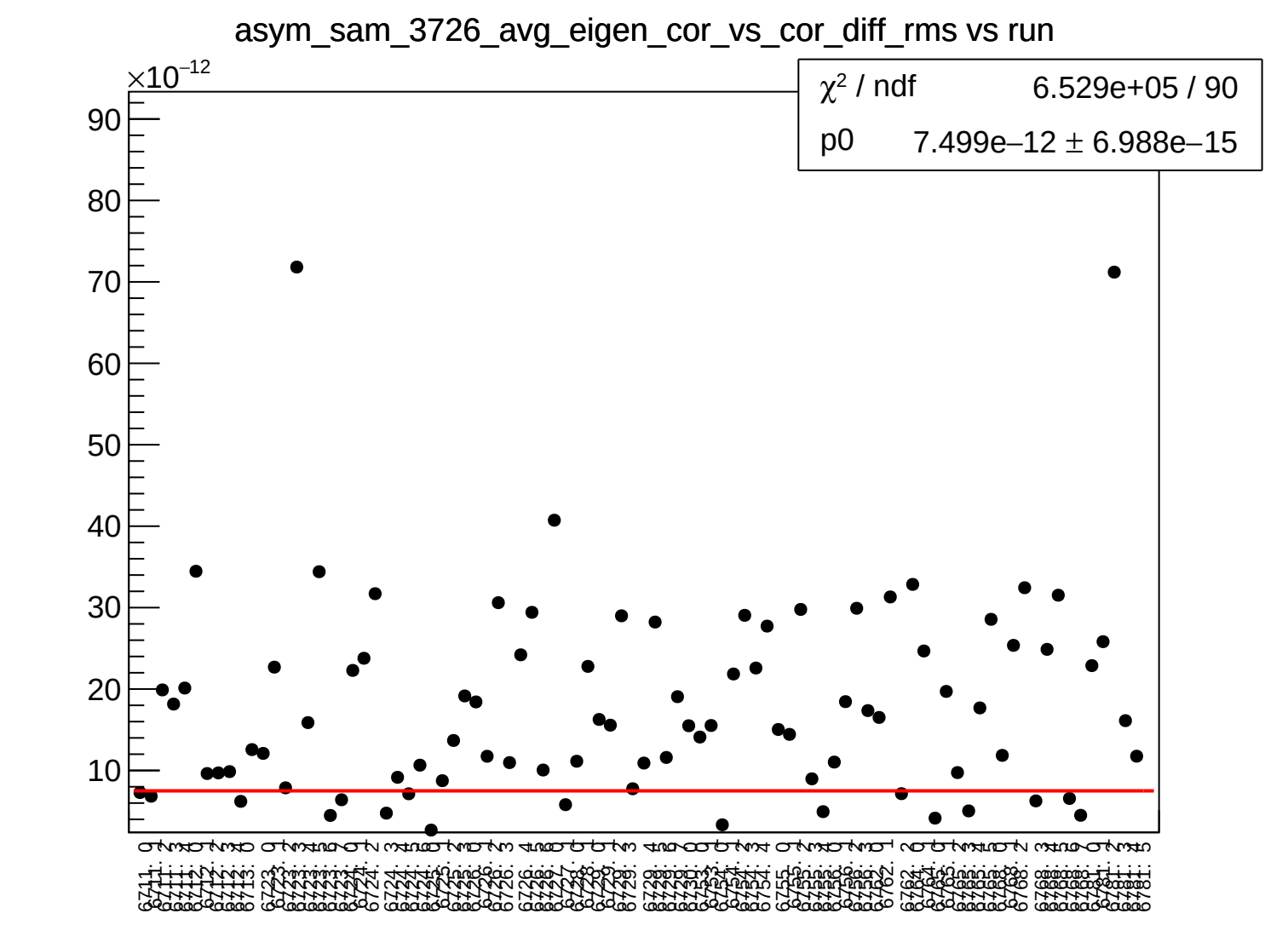

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.666e+05 / 90
p0 68.76 ± 0.05734
250
200
150
100
50

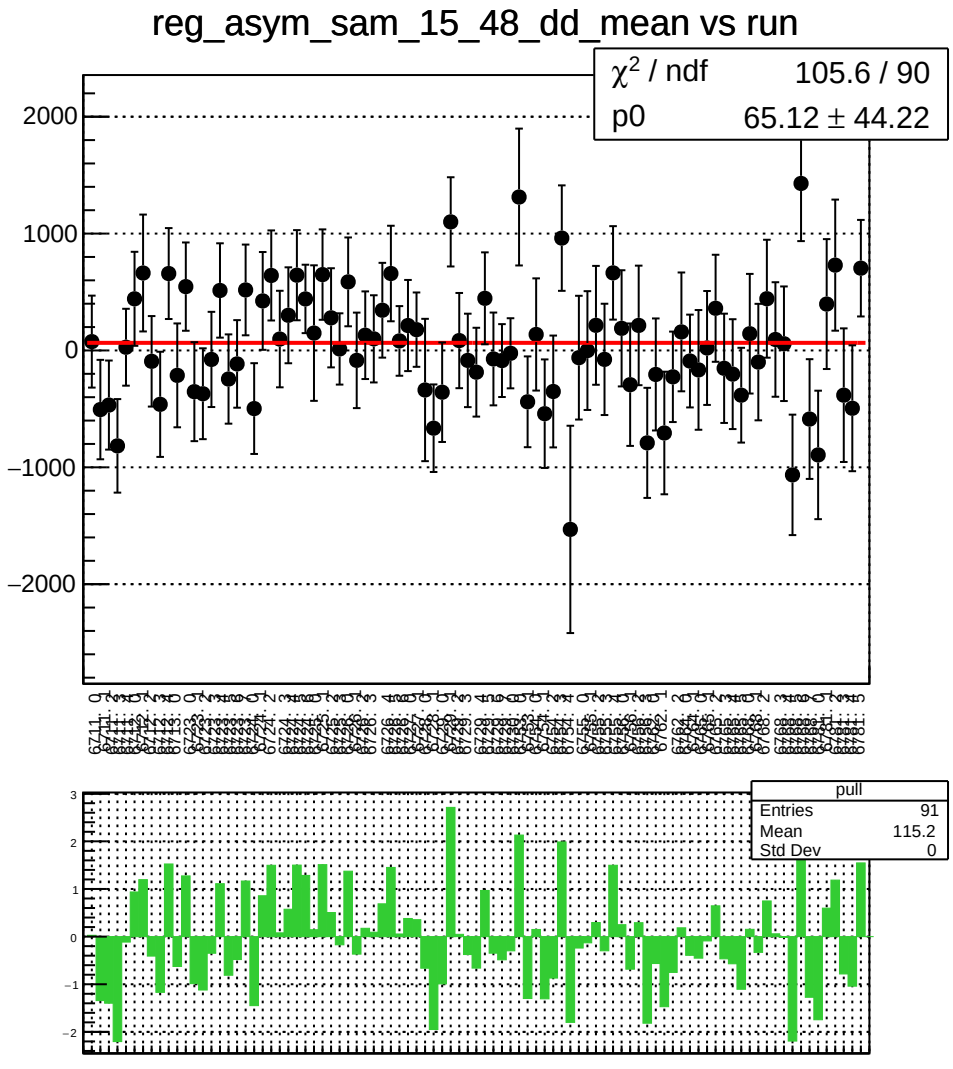

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121.1 / 90
p0 −0.02242 ± 0.0811
pull
Entries 91
Mean 132.6
Std Dev 0
pull1D
Entries 91
Mean 0.03639
Std Dev 1.153

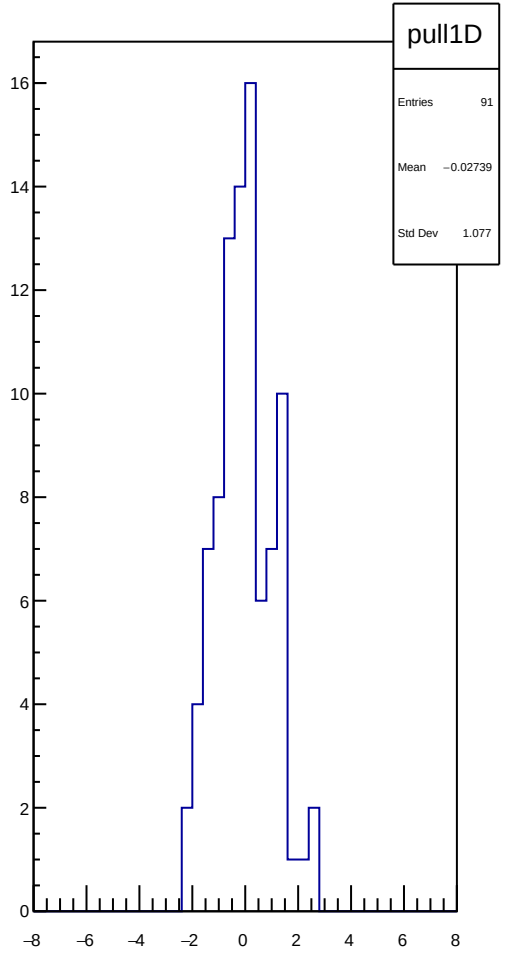

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.666e+05 / 90
p0 68.76 ± 0.05734
250
200
150
100
50

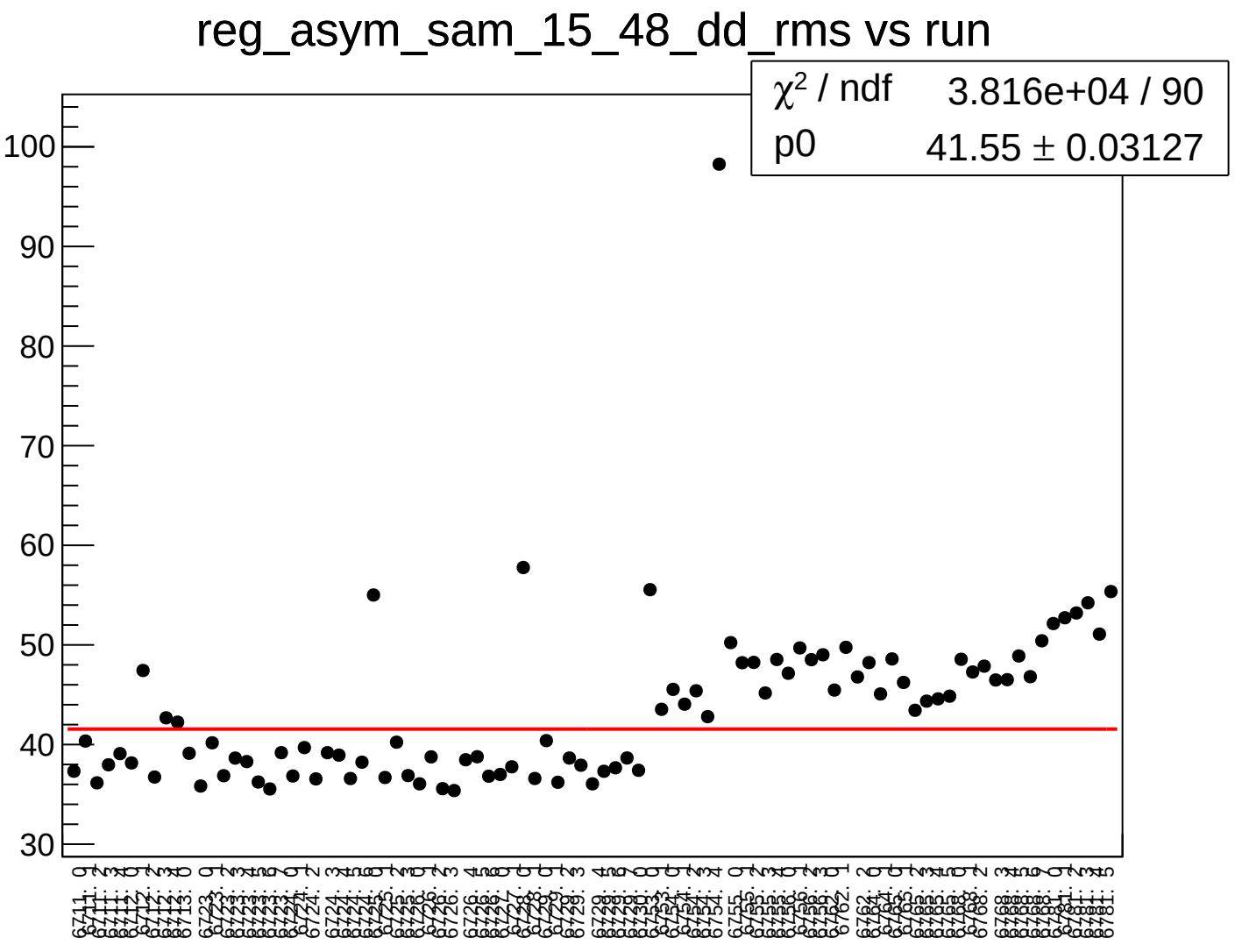

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.07 / 90
p0 −1.23e−14 ± 9.883e−15
pull
Entries 91
Mean 8.777
Std Dev 0

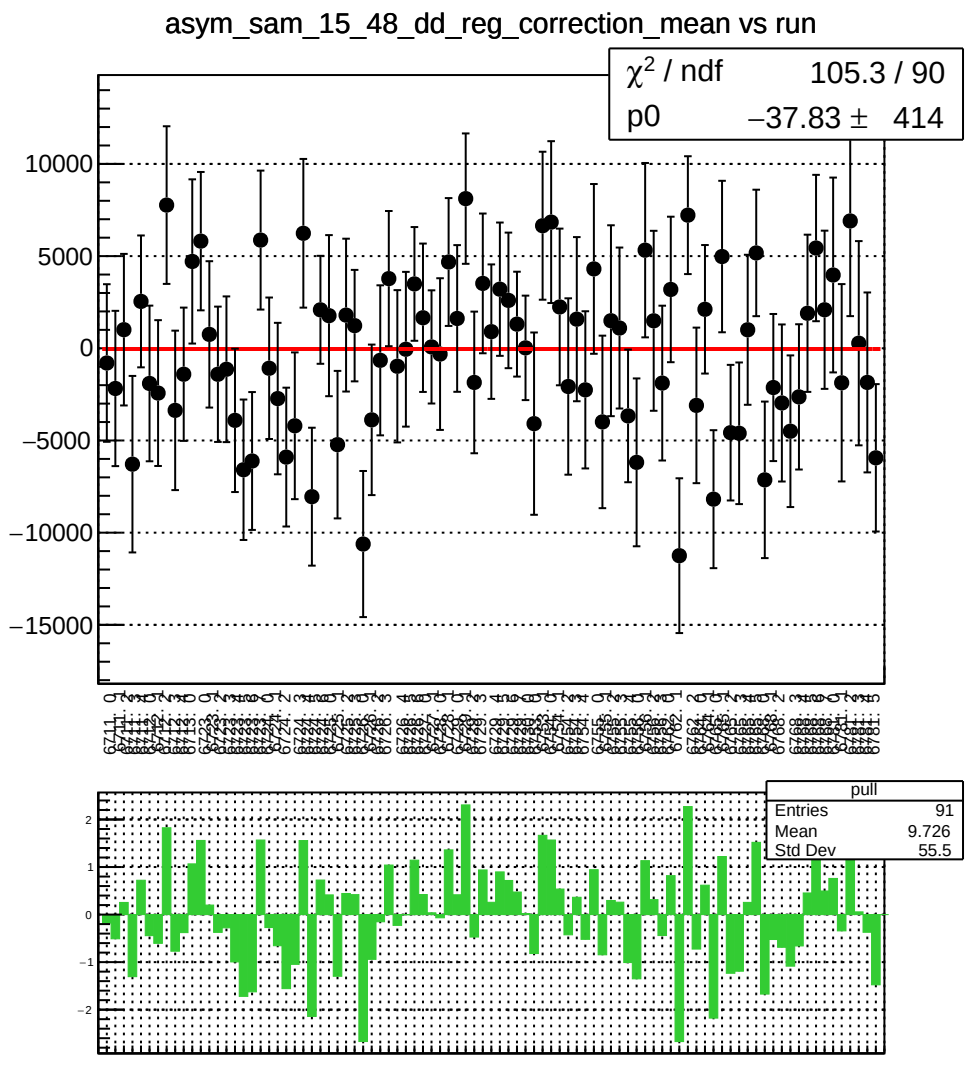

pull1D
Entries 91
Mean −0.09475
Std Dev 0.9959

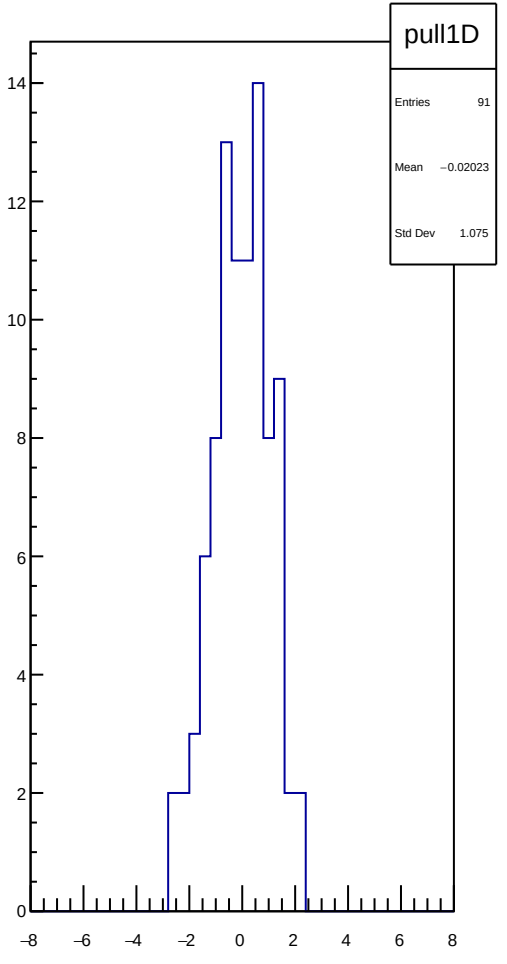

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.529e+05 / 90
p0 7.499e−12 ± 6.988e−15
90
80
70
60
50
40
30
20
10

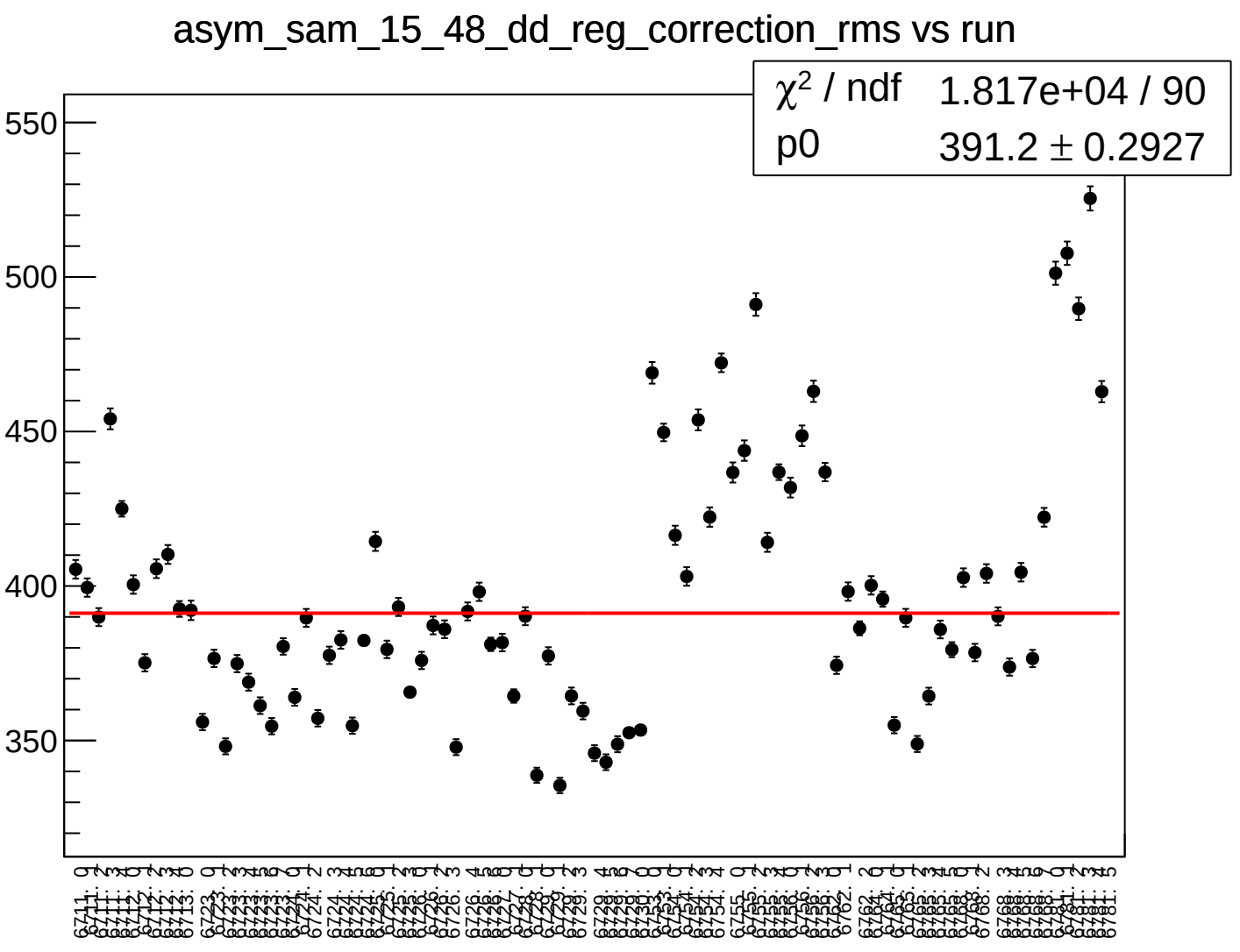

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 105.6 / 90
p0 65.12 ± 44.22
2000
1000
0
−1000
−2000
pull
Entries 91
Mean 115.2
Std Dev 0
3
2
1
0
−1
−2

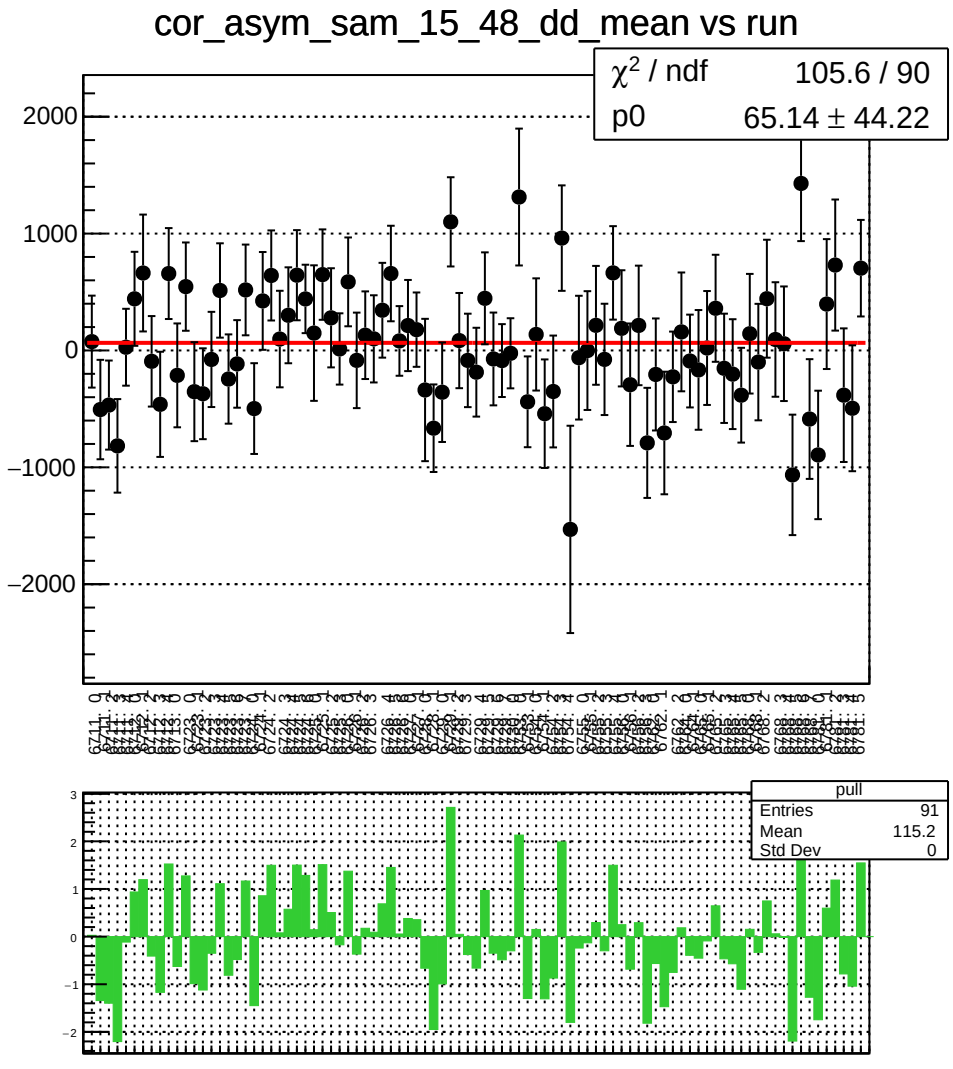

pull1D
Entries 91
Mean −0.02739
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

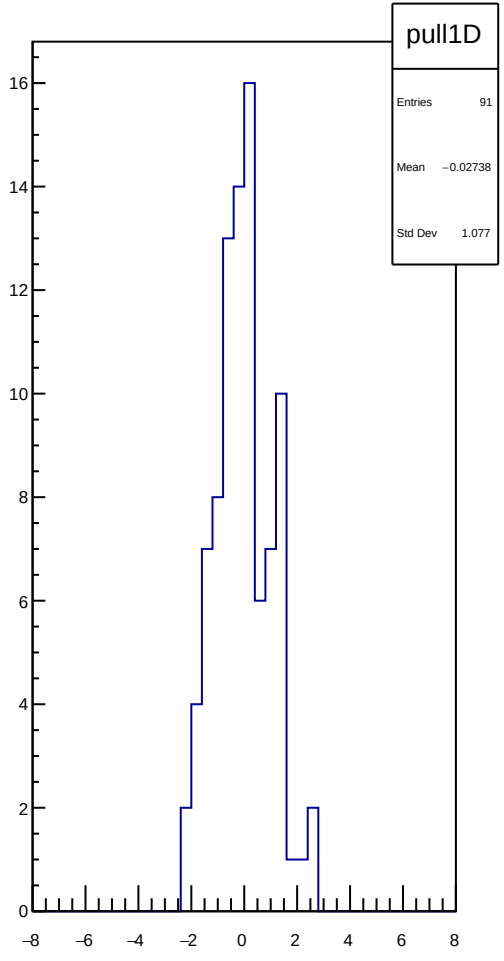

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 3.816e+04 / 90
p0 41.55 ± 0.03127
100
90
80
70
60
50
40
30

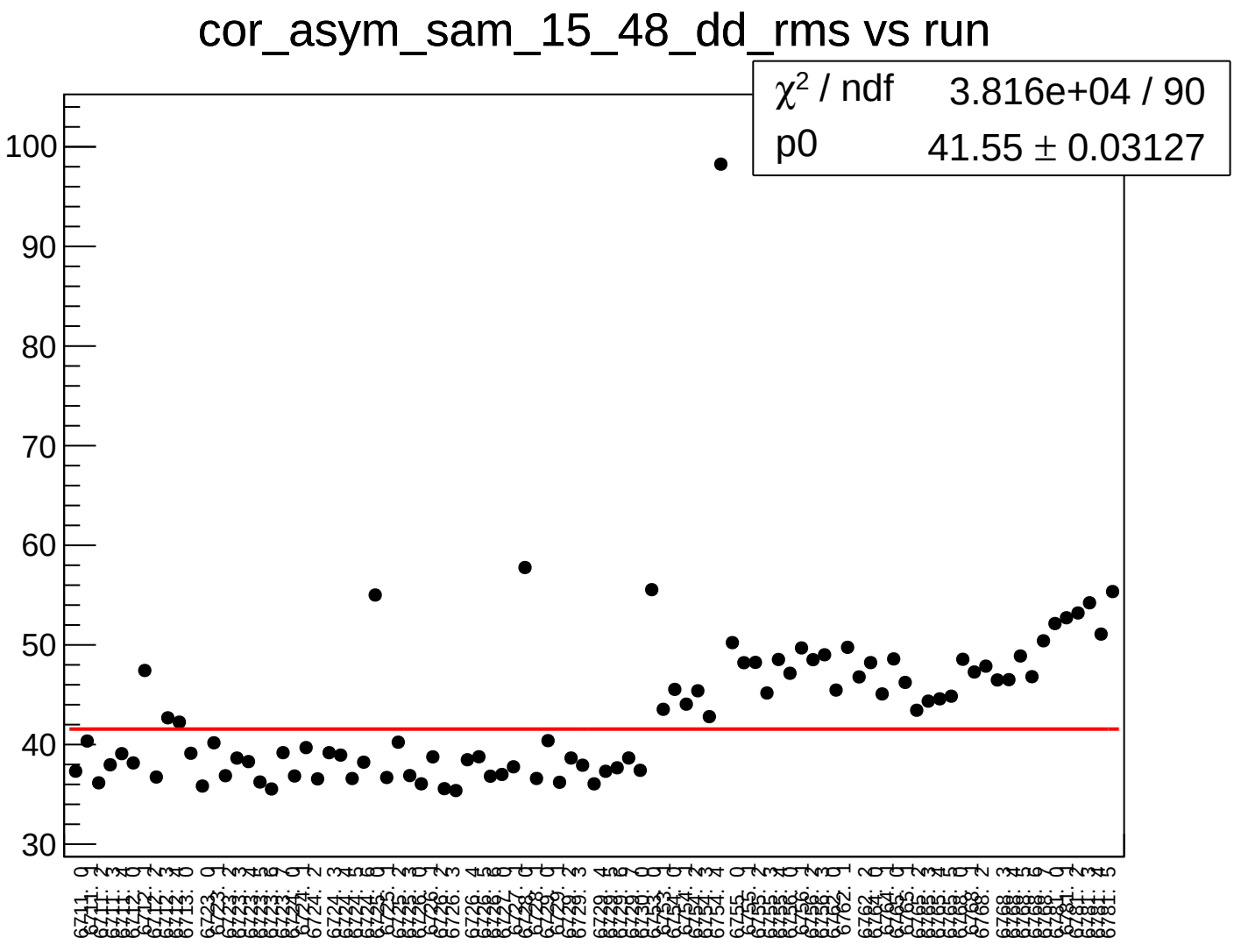

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 105.3 / 90
p0 −37.83 ± 414
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 9.726
Std Dev 55.5
2
1
0
−1
−2

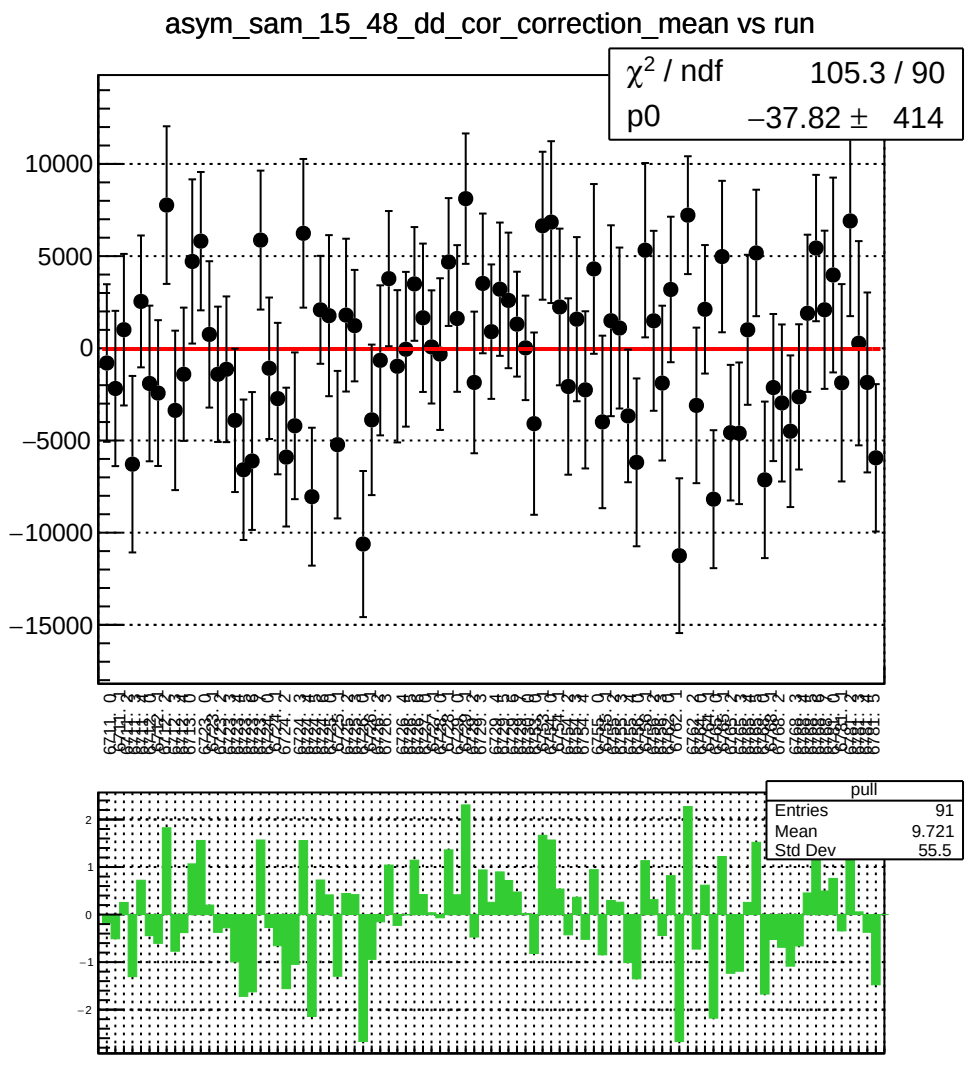

pull1D
Entries 91
Mean −0.02023
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

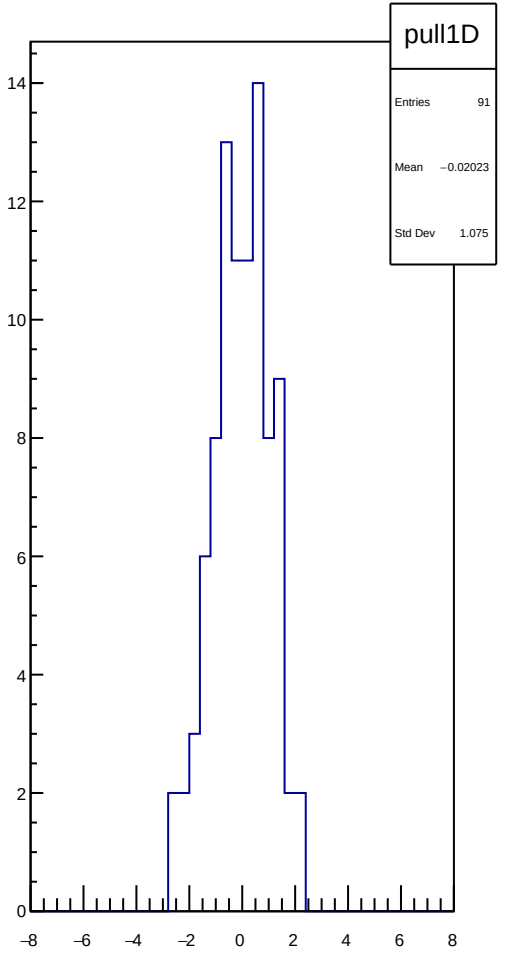

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 1.817e+04 / 90
p0 391.2 ± 0.2927
550
500
450
400
350

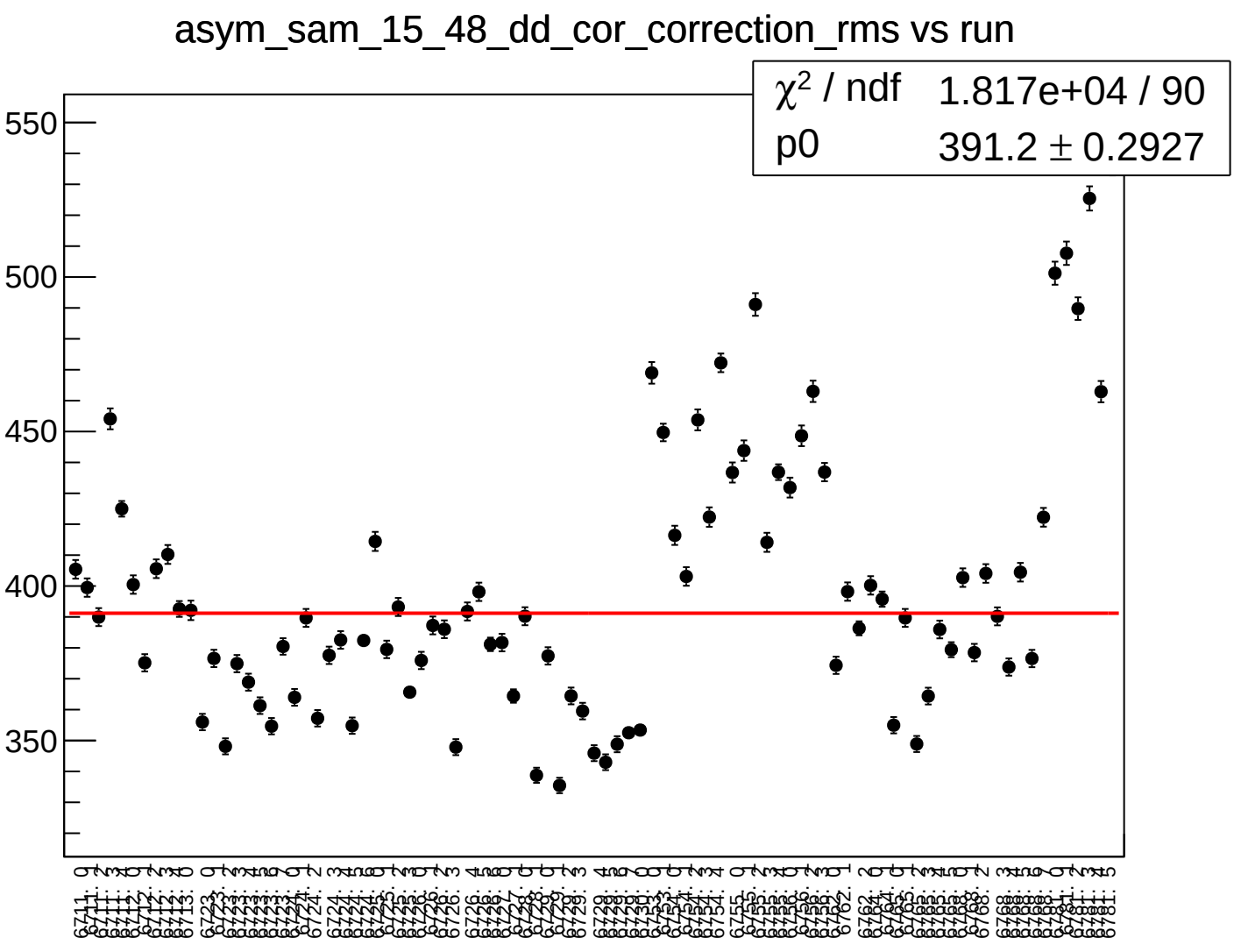

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 105.6 / 90
p0 65.14 ± 44.22
2000
1000
0
−1000
−2000
pull
Entries 91
Mean 115.2
Std Dev 0
3
2
1
0
−1
−2

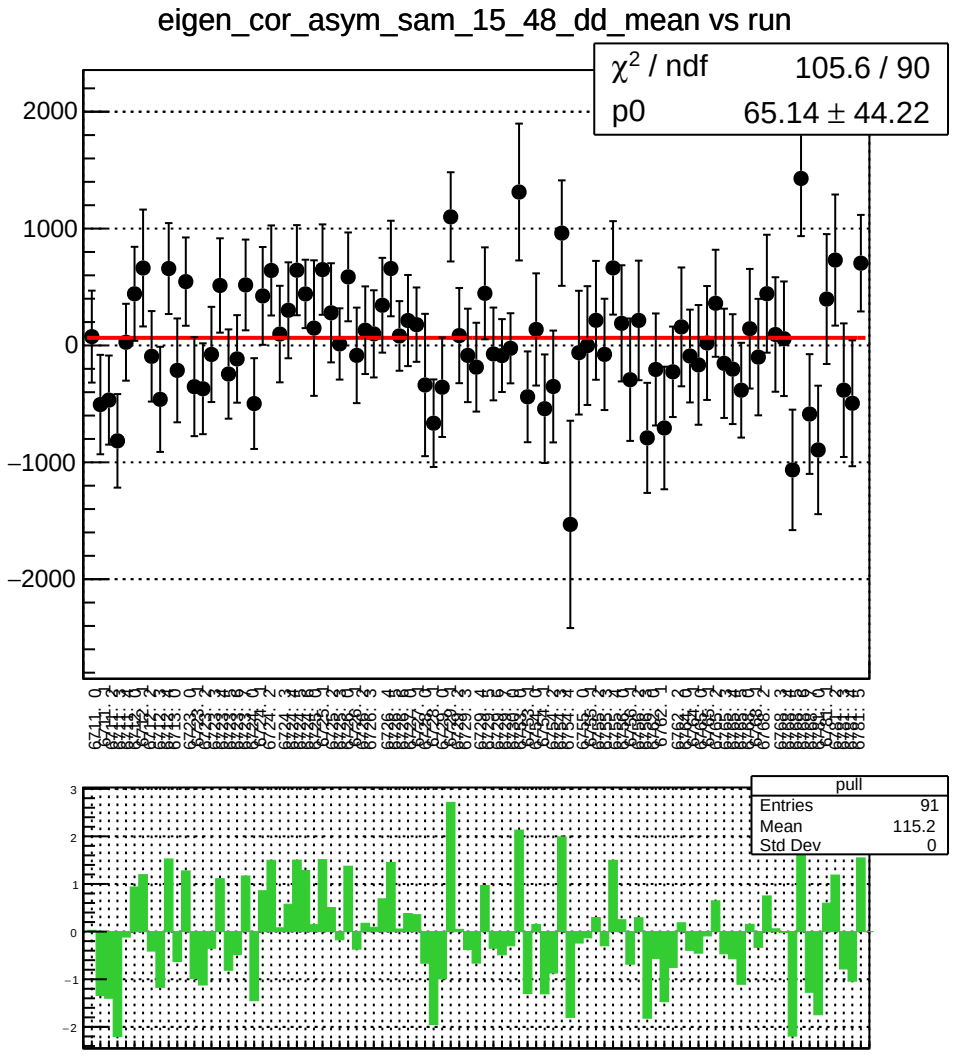

pull1D
Entries 91
Mean −0.02738
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

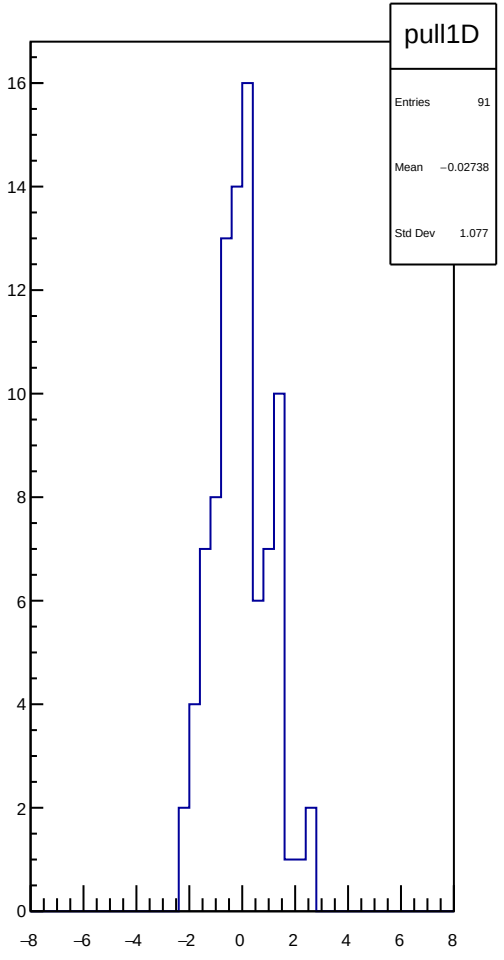

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 3.816e+04 / 90
p0 41.55 ± 0.03127
100
90
80
70
60
50
40
30

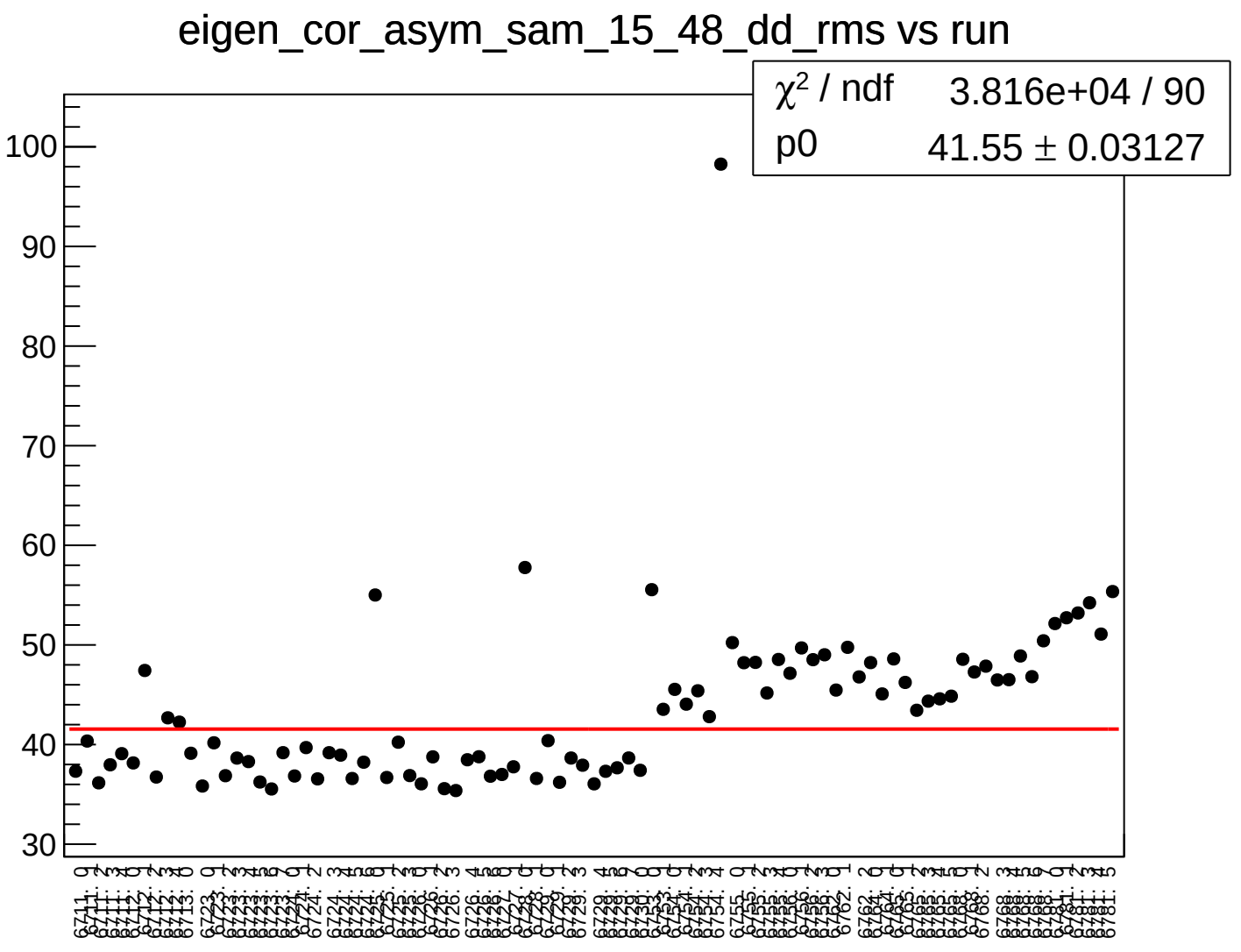

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 105.3 / 90
p0 −37.82 ± 414
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 9.721
Std Dev 55.5
2
1
0
−1
−2

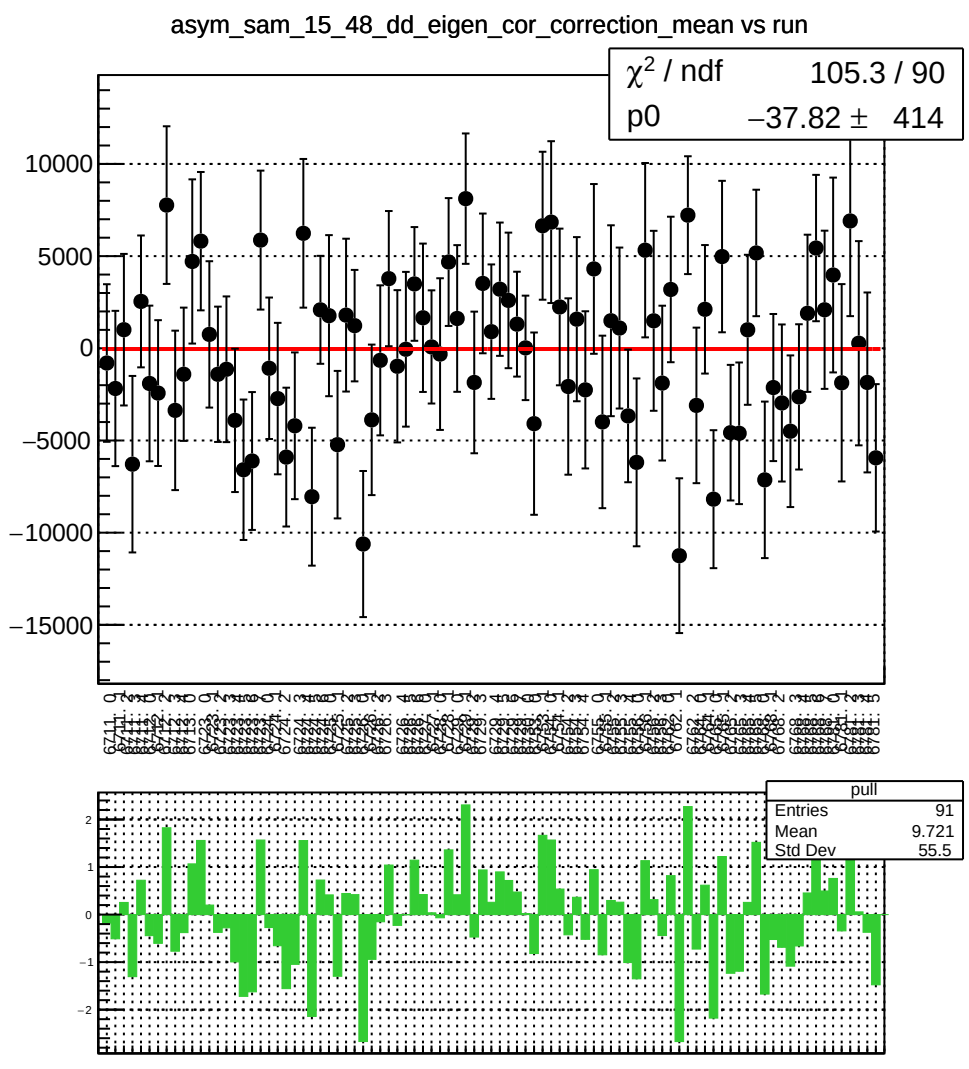

pull1D
Entries 91
Mean −0.02023
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

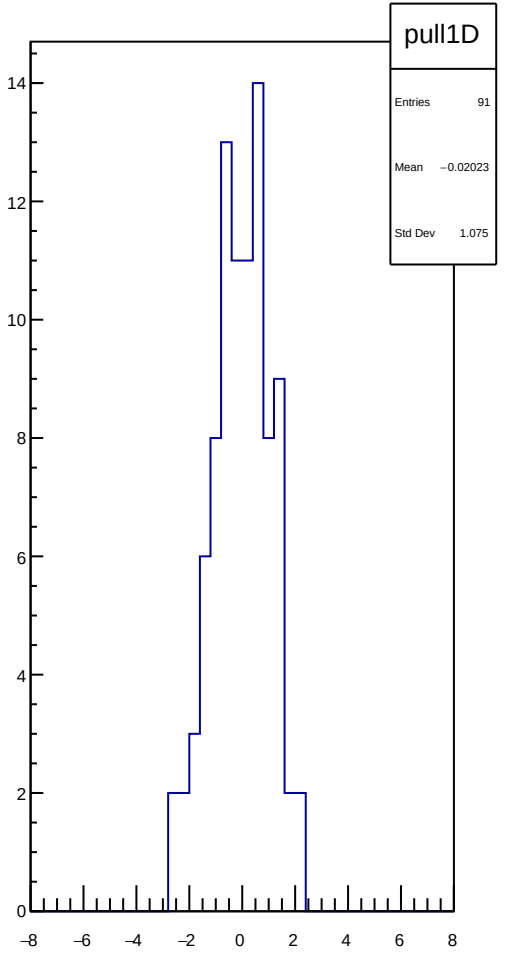

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 1.817e+04 / 90
p0 391.2 ± 0.2927
550
500
450
400
350

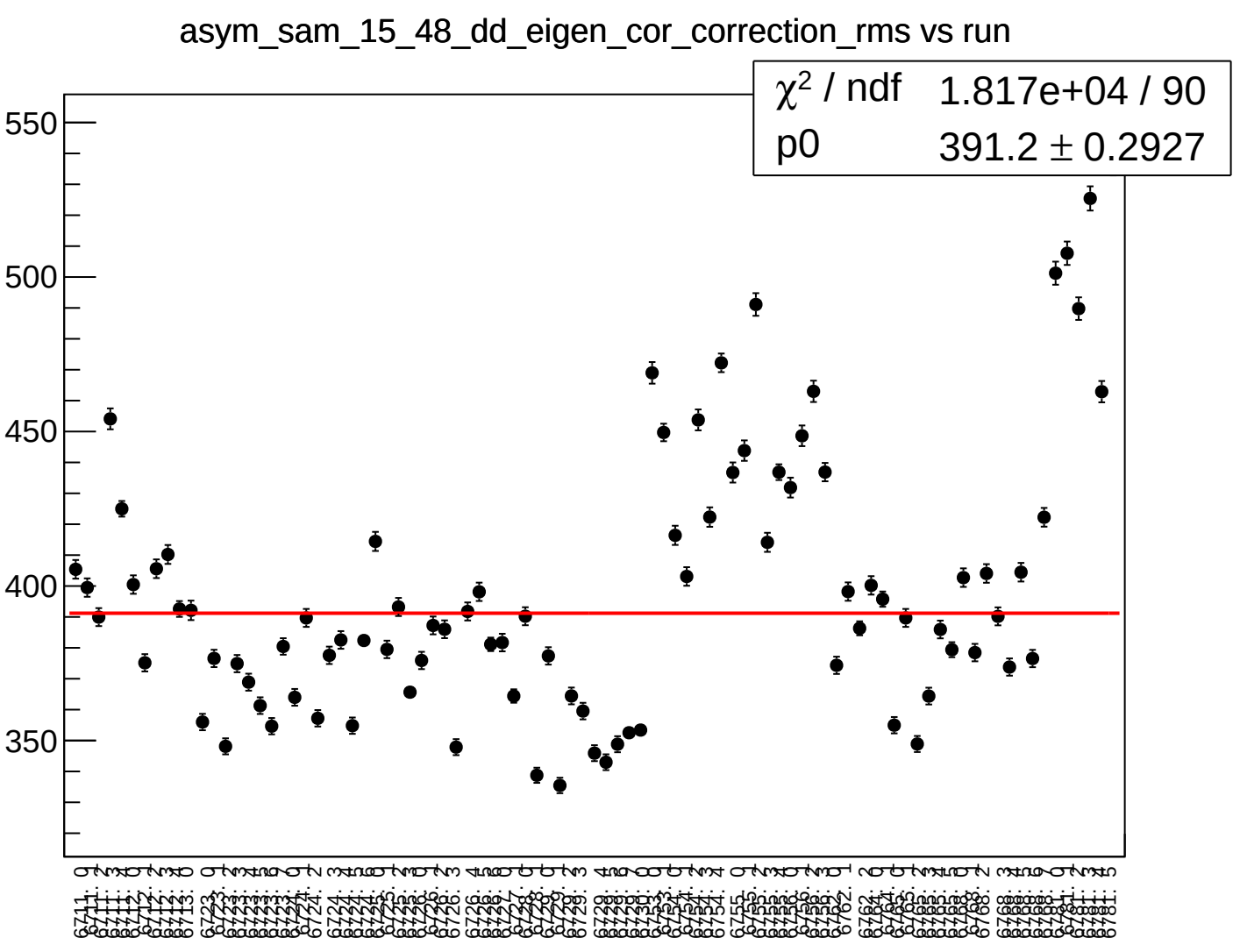

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 105.6 / 90
p0 65.14 ± 44.22
2000
1000
0
−1000
−2000
pull
Entries 91
Mean 115.2
Std Dev 0
3
2
1
0
−1
−2

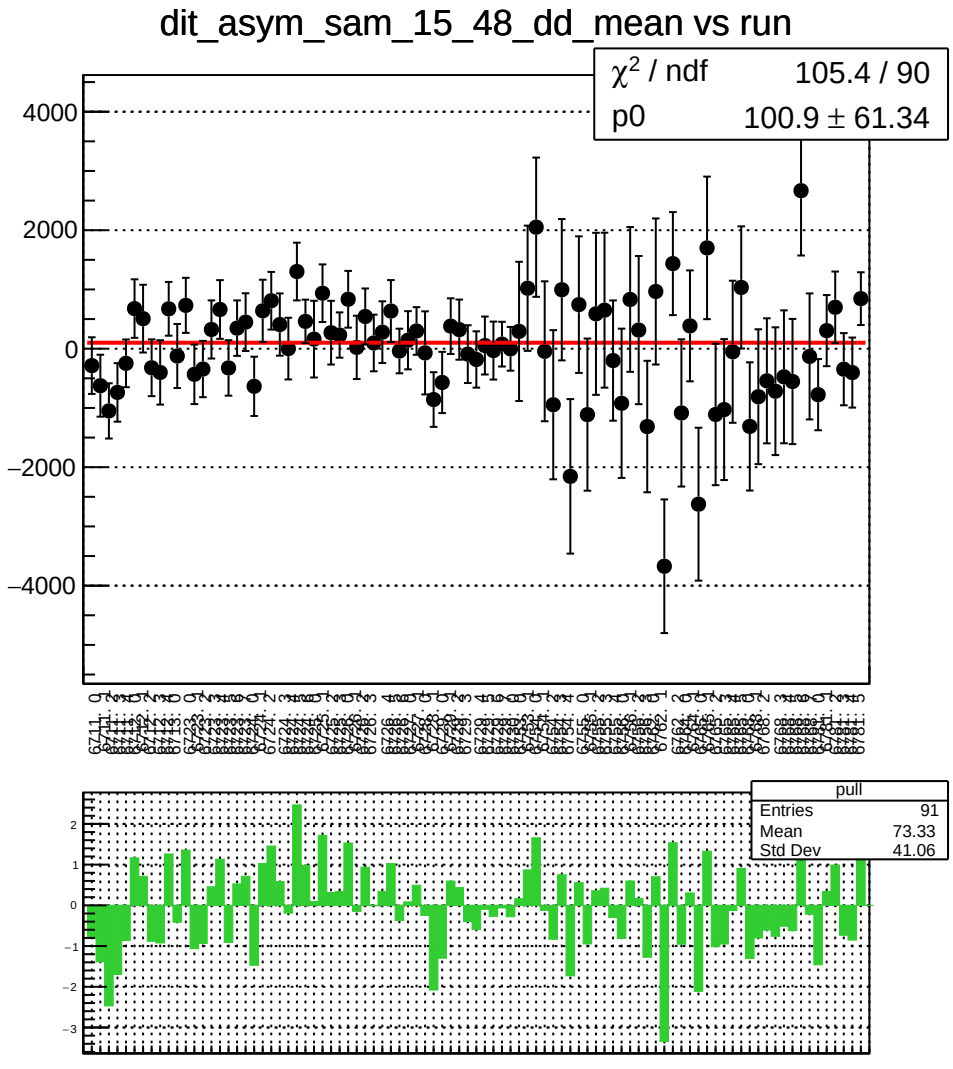

pull1D
Entries 91
Mean −0.02738
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

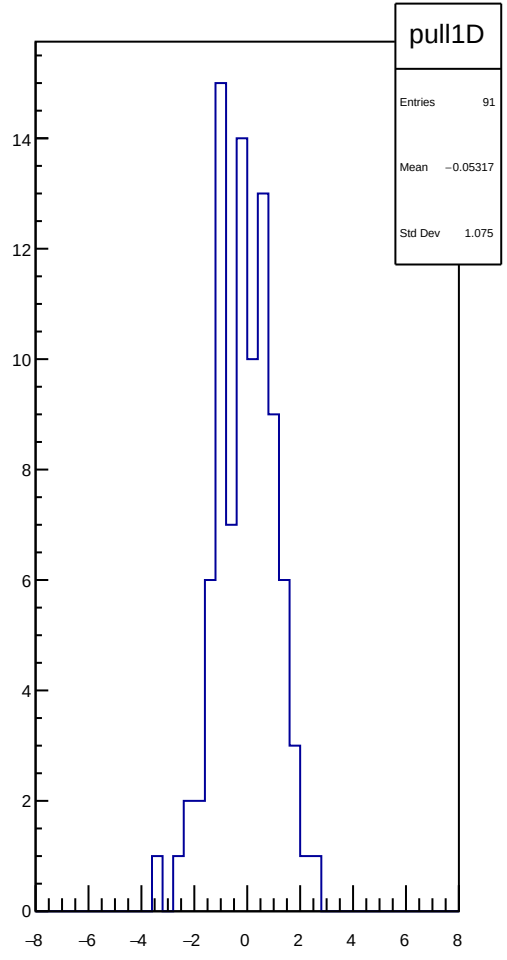

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 3.816e+04 / 90
p0 41.55 ± 0.03127
100
90
80
70
60
50
40
30

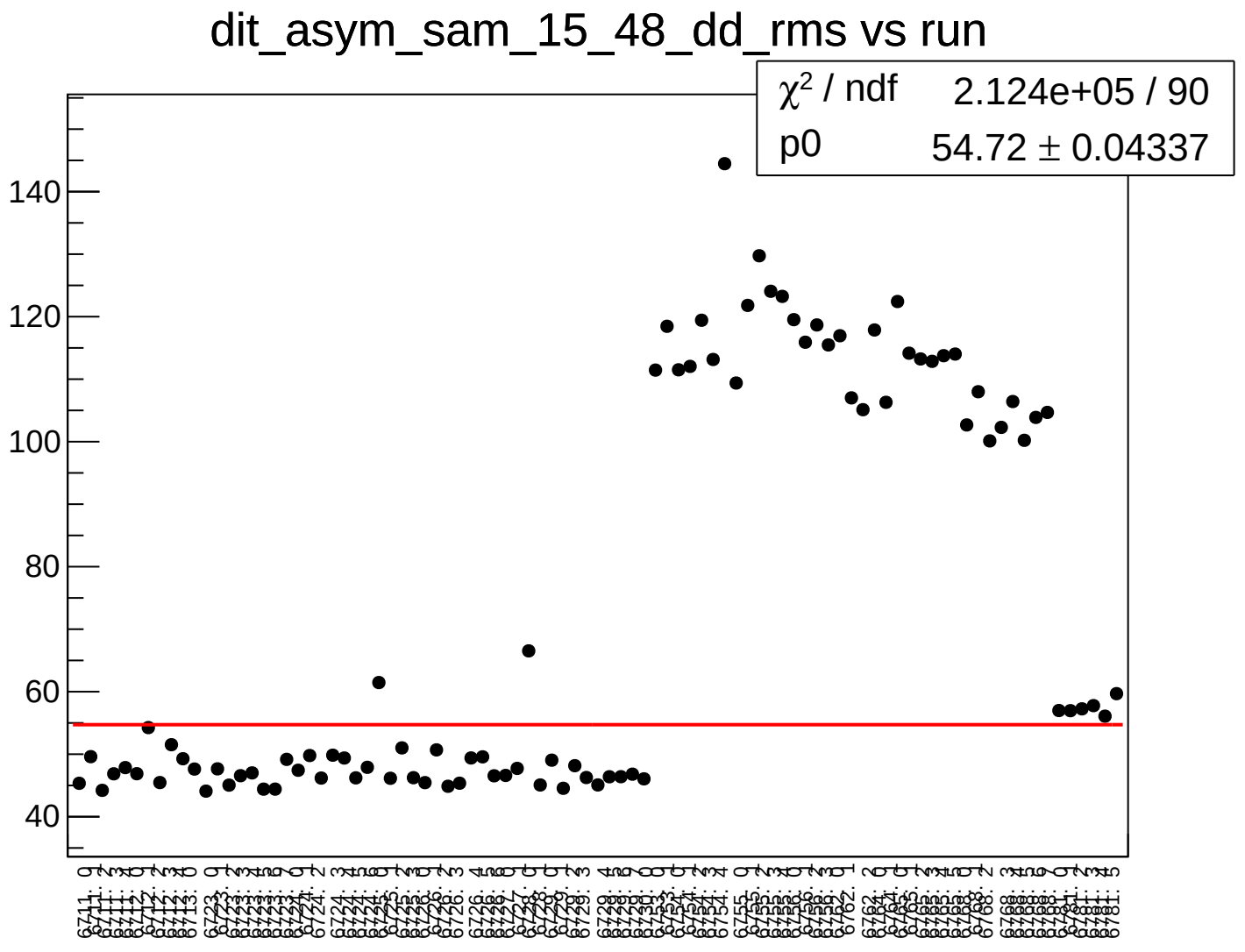

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 105.3 / 90
p0 −37.82 ± 414
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 9.721
Std Dev 55.5
2
1
0
−1
−2

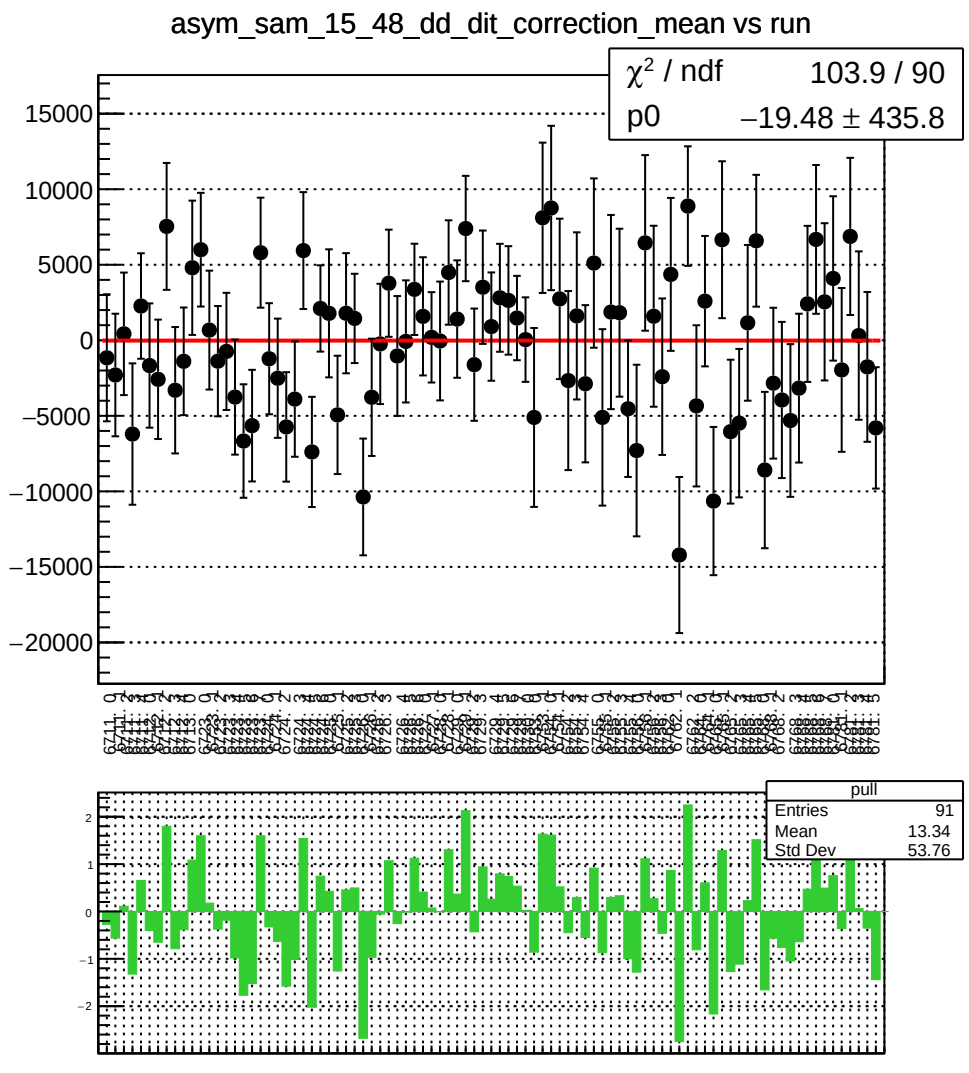

pull1D
Entries 91
Mean −0.02023
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

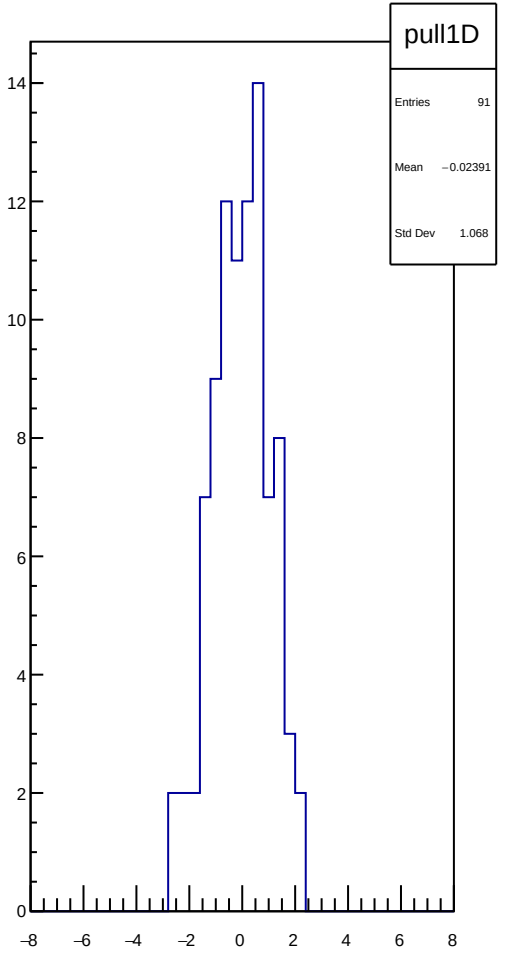

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.817e+04 / 90
p0 391.2 ± 0.2927
550
500
450
400
350

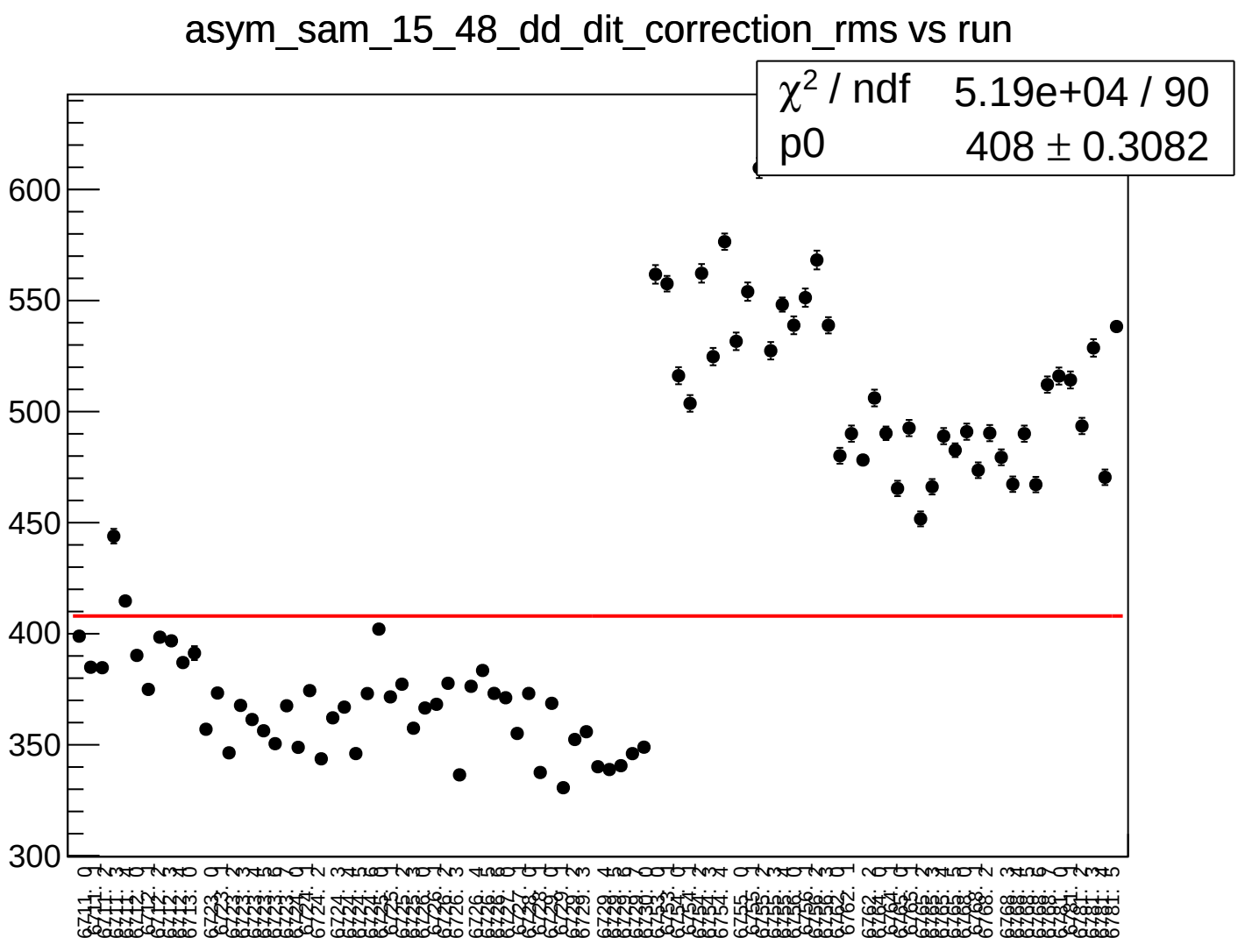

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 105.4 / 90
p0 100.9 ± 61.34
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 73.33
Std Dev 41.06
2
1
0
−1
−2
−3

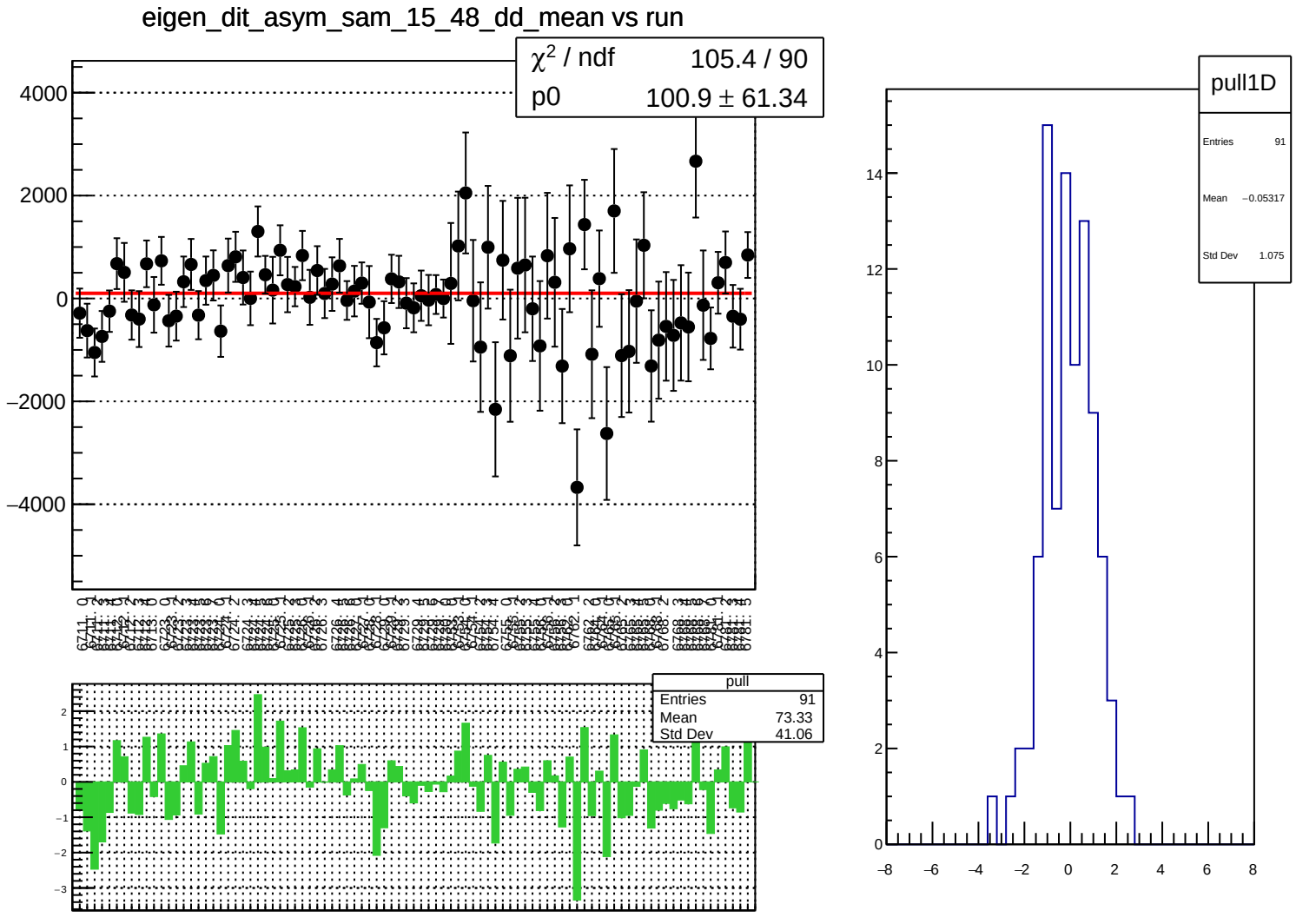

pull1D
Entries 91
Mean −0.05317
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

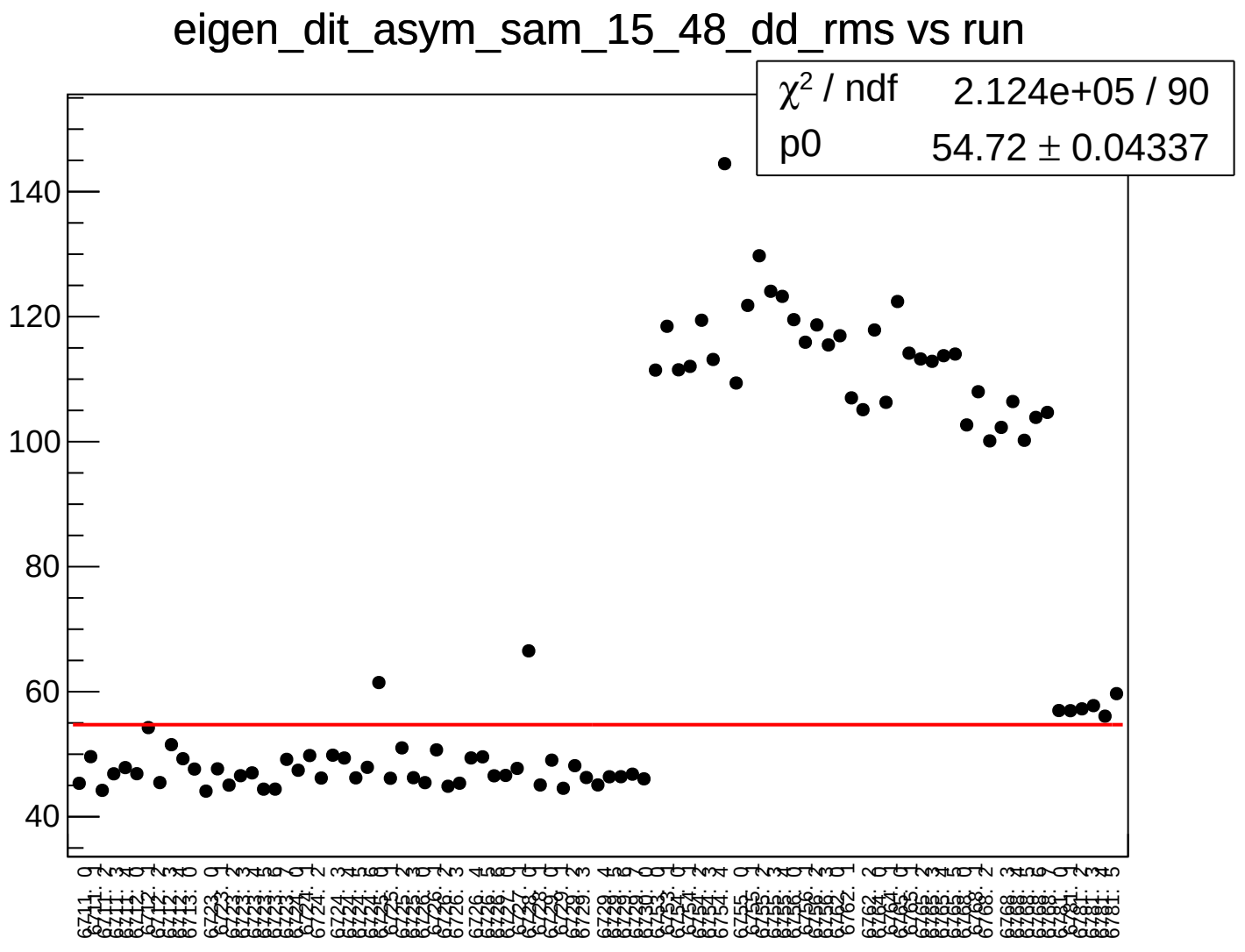

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.124e+05 / 90
p0 54.72 ± 0.04337
140
120
100
80
60
40

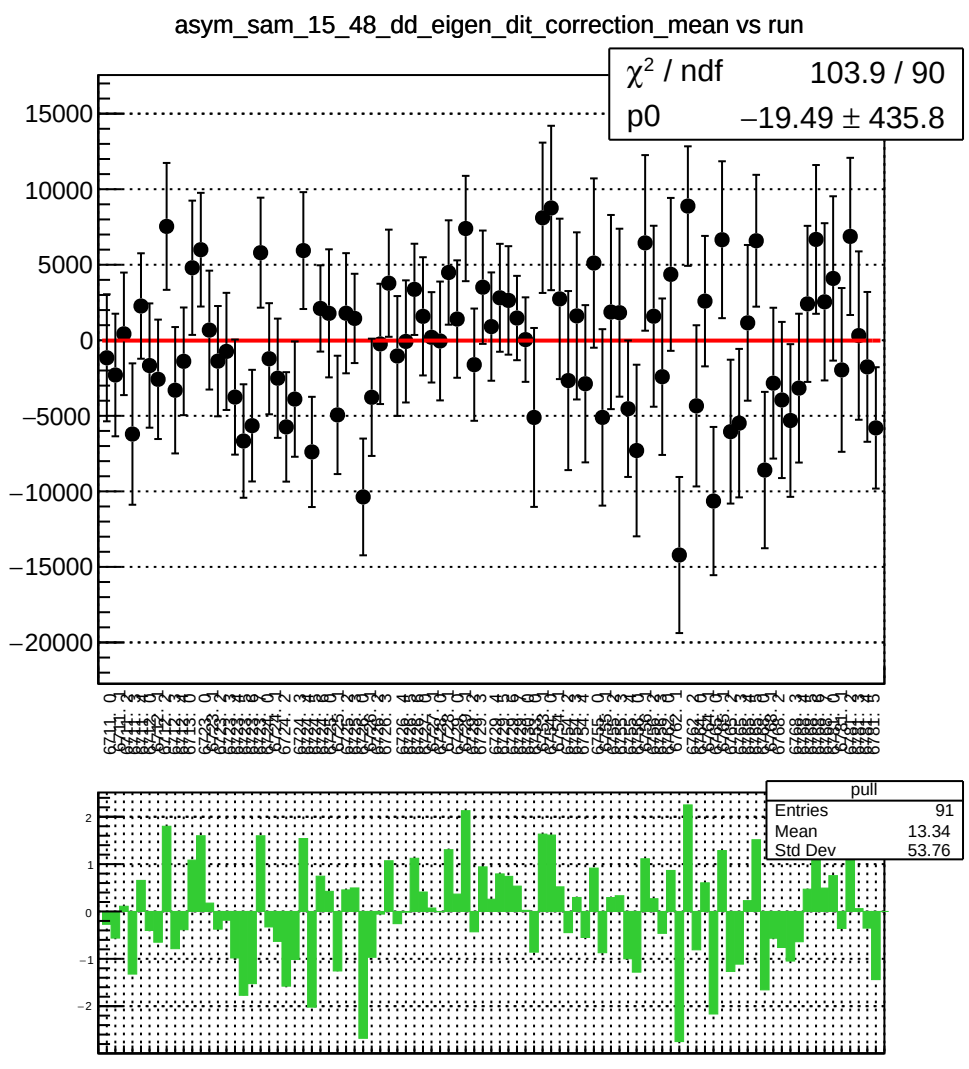

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 103.9 / 90
p0 −19.48 ± 435.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 91
Mean 13.34
Std Dev 53.76
2
1
0
−1
−2

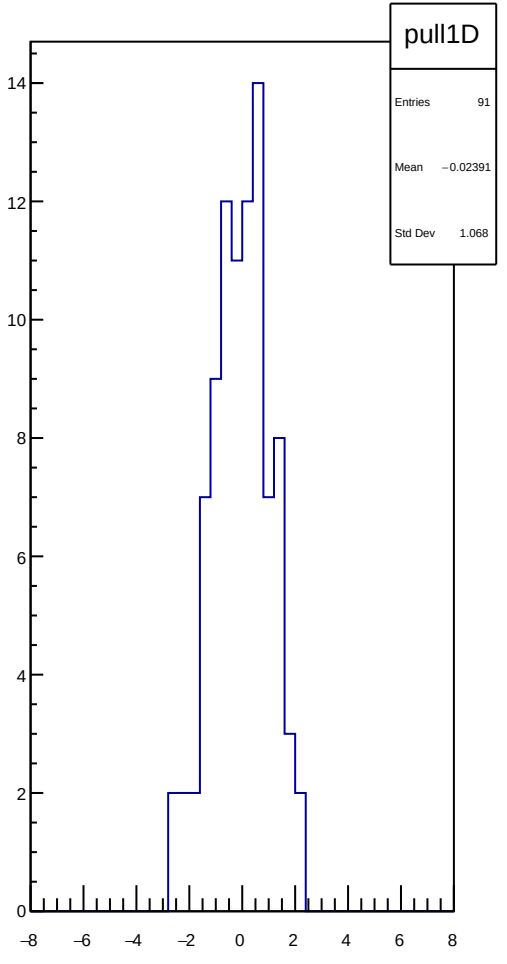

pull1D
Entries 91
Mean −0.02391
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

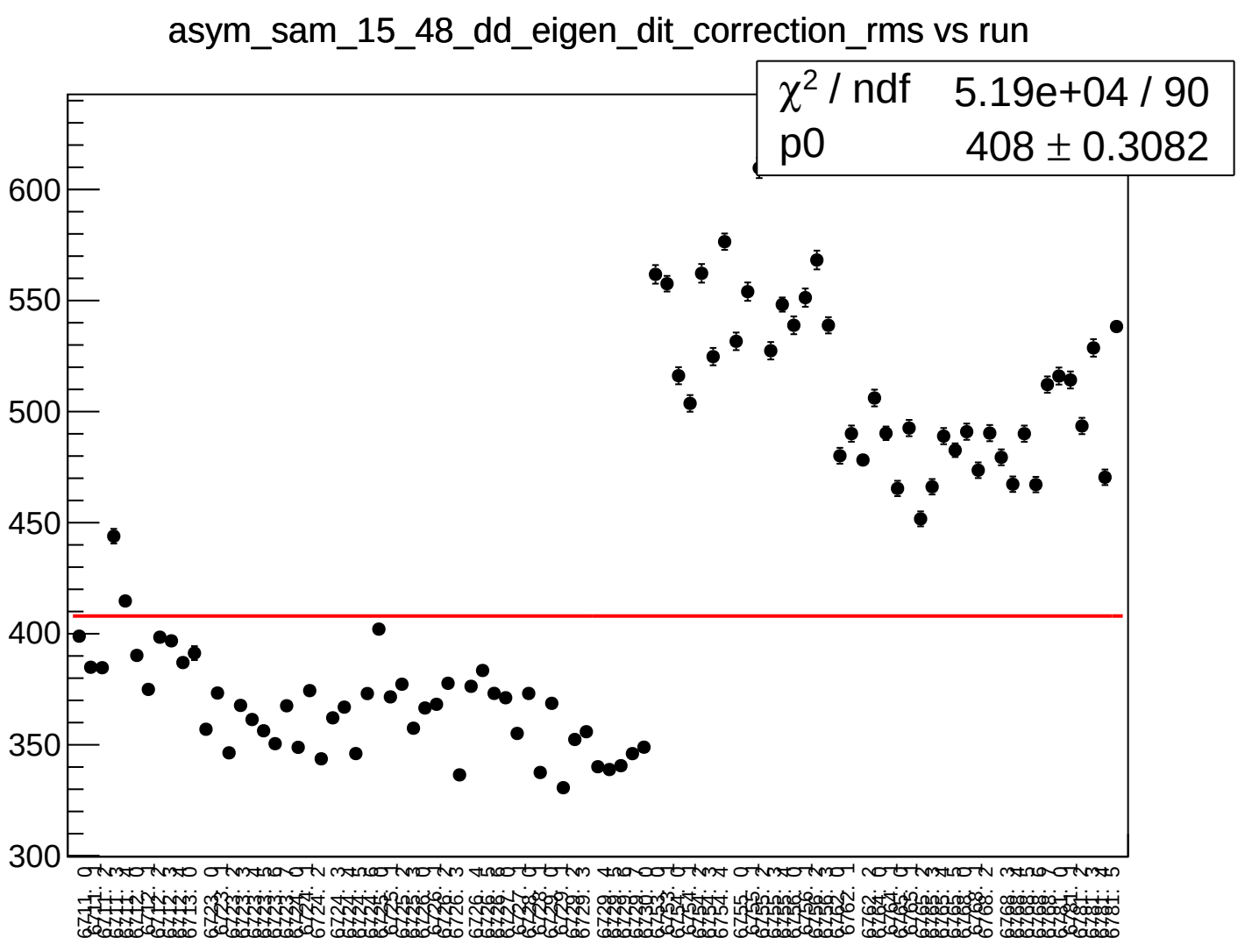

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 5.19e+04 / 90
p0 408 ± 0.3082
600
550
500
450
400
350
300

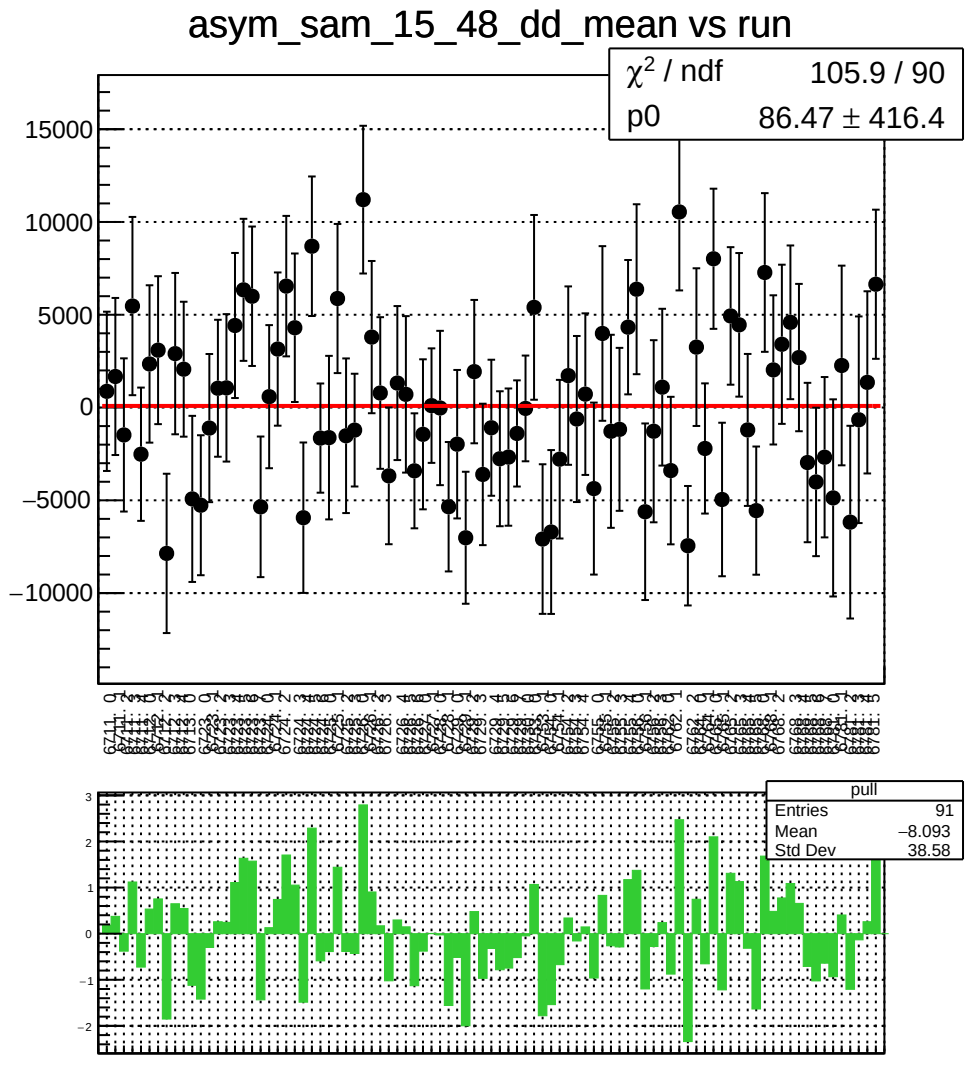

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 105.4 / 90
p0 100.9 ± 61.34
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 73.33
Std Dev 41.06
pull1D
Entries 91
Mean −0.05317
Std Dev 1.075

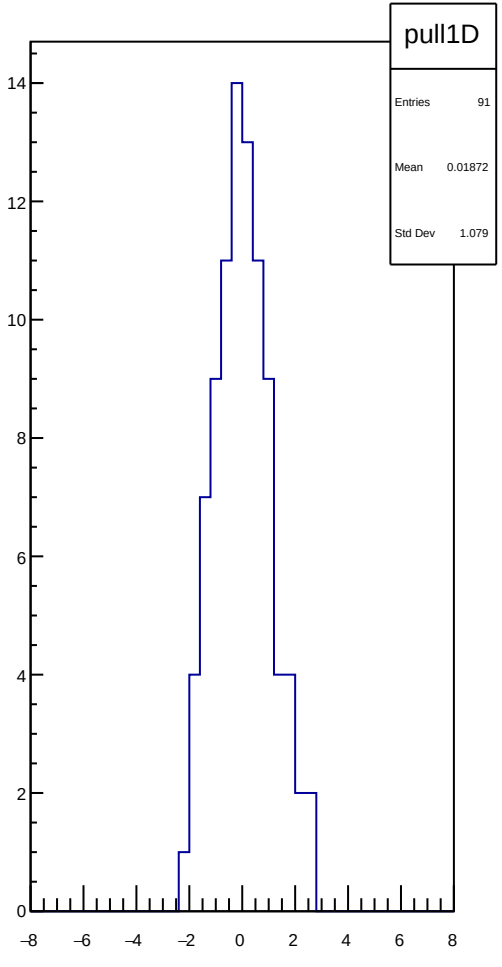

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.124e+05 / 90
p0 54.72 ± 0.04337
140
120
100
80
60
40

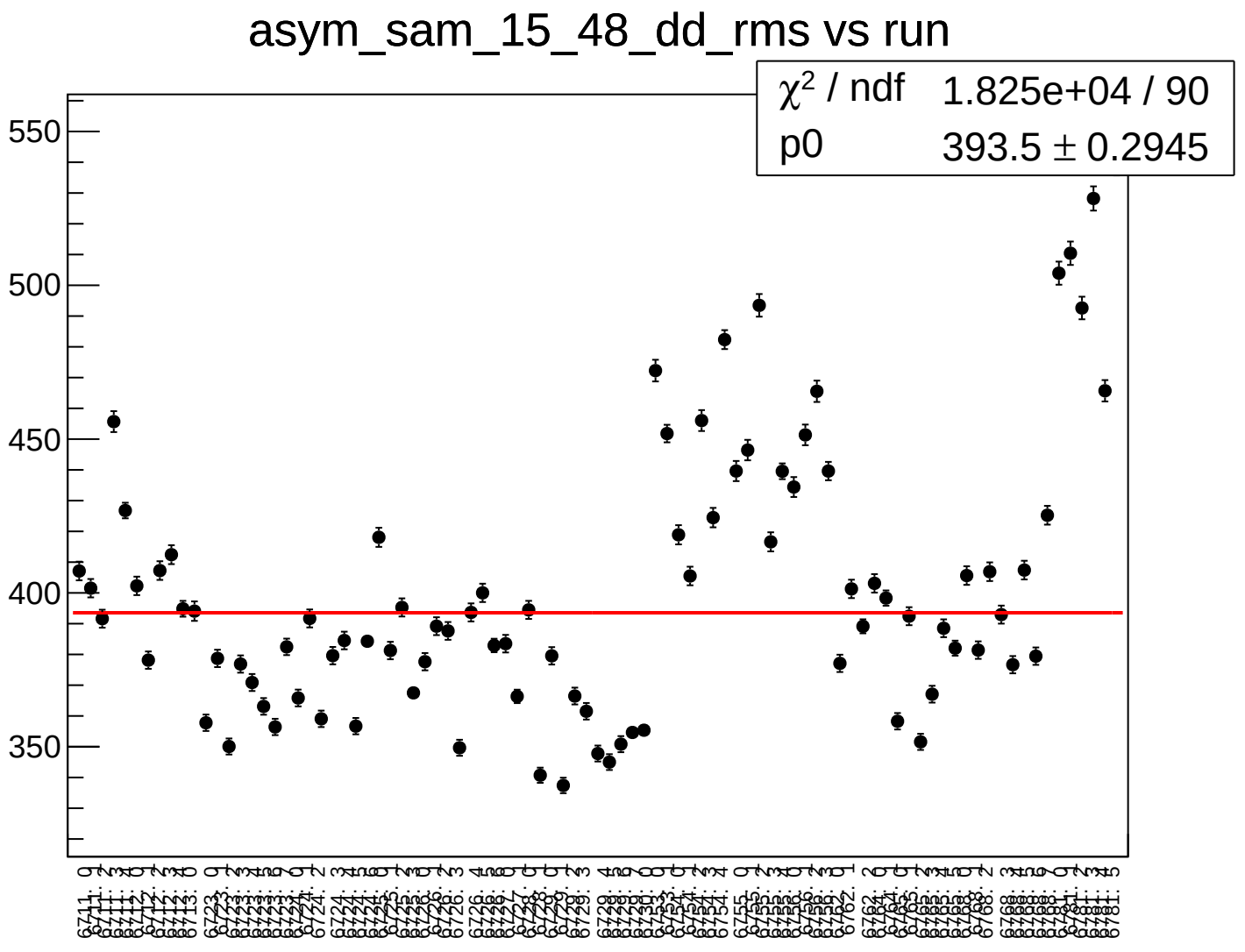

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 103.9 / 90
p0 −19.49 ± 435.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 91
Mean 13.34
Std Dev 53.76
2
1
0
−1
−2

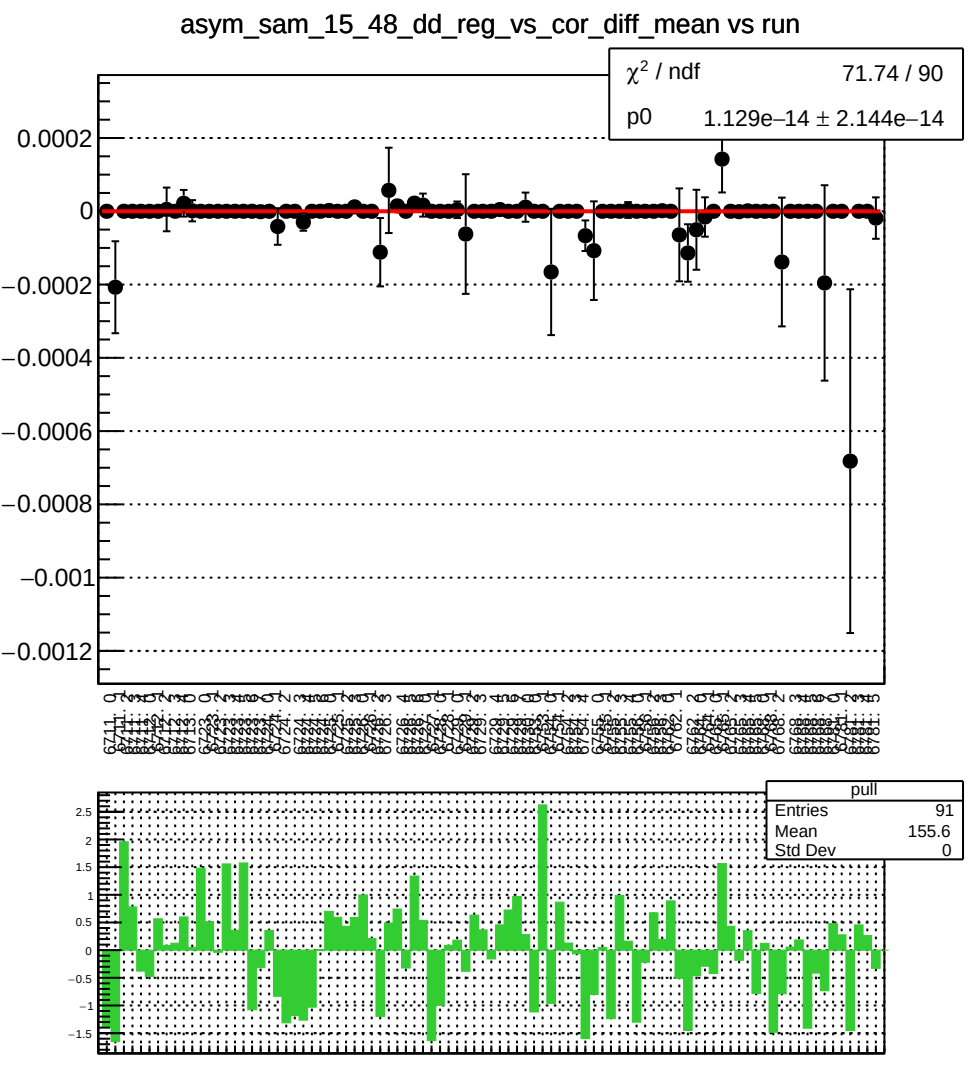

pull1D
Entries 91
Mean −0.02391
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

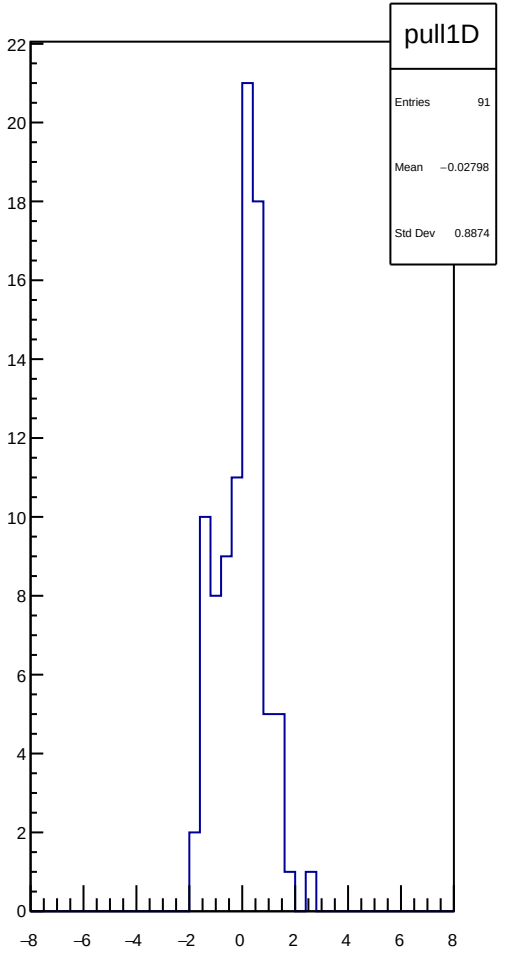

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.19e+04 / 90
p0 408 ± 0.3082
600
550
500
450
400
350
300

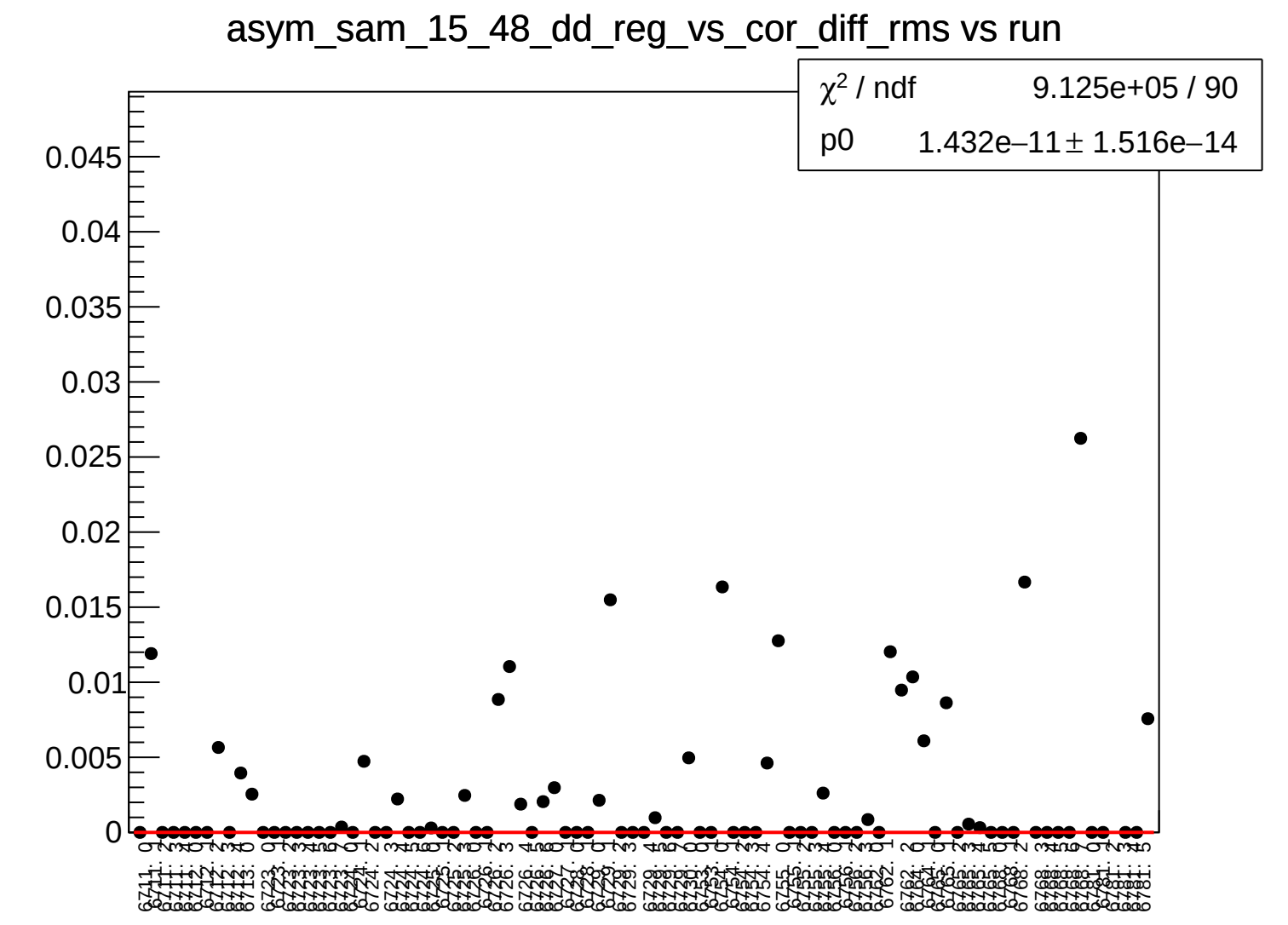

asym_sam_15_48_dd_mean vs run
χ² / ndf 105.9 / 90
p0 86.47 ± 416.4
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −8.093
Std Dev 38.58
3
2
1
0
−1
−2

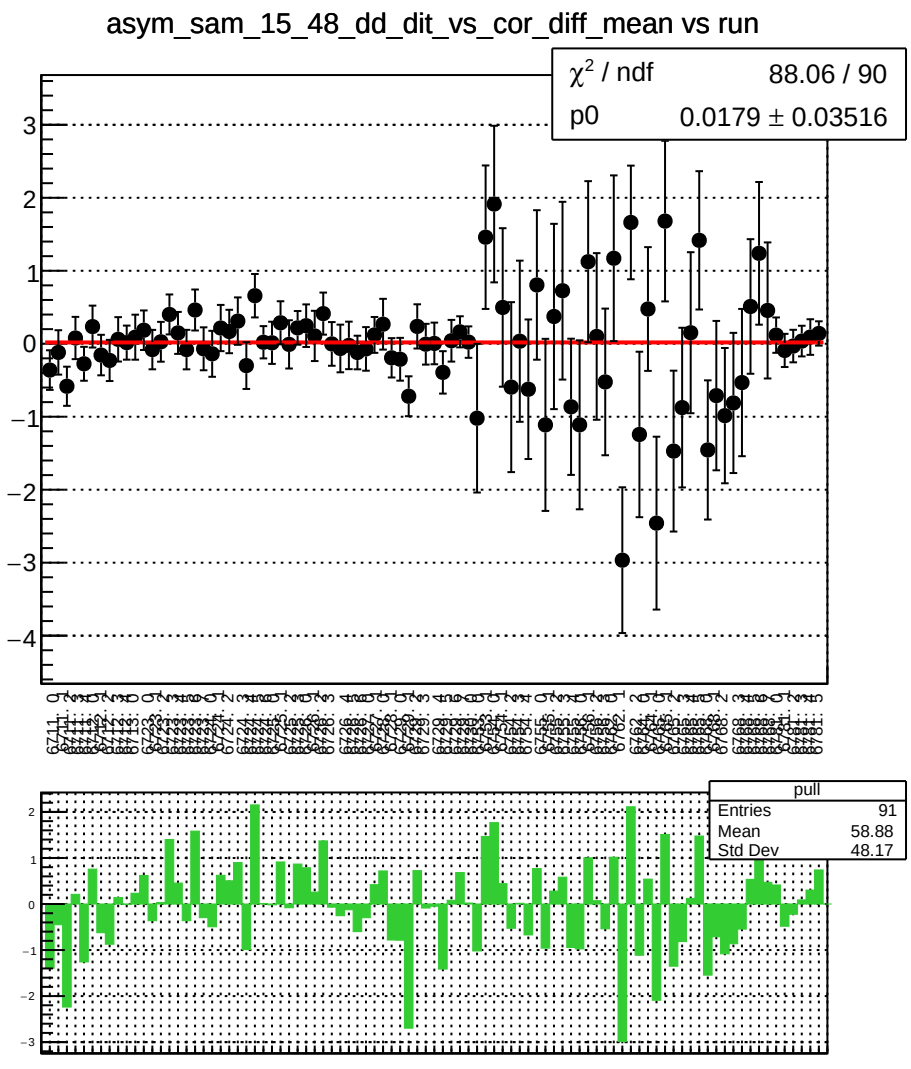

pull1D
Entries 91
Mean 0.01872
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

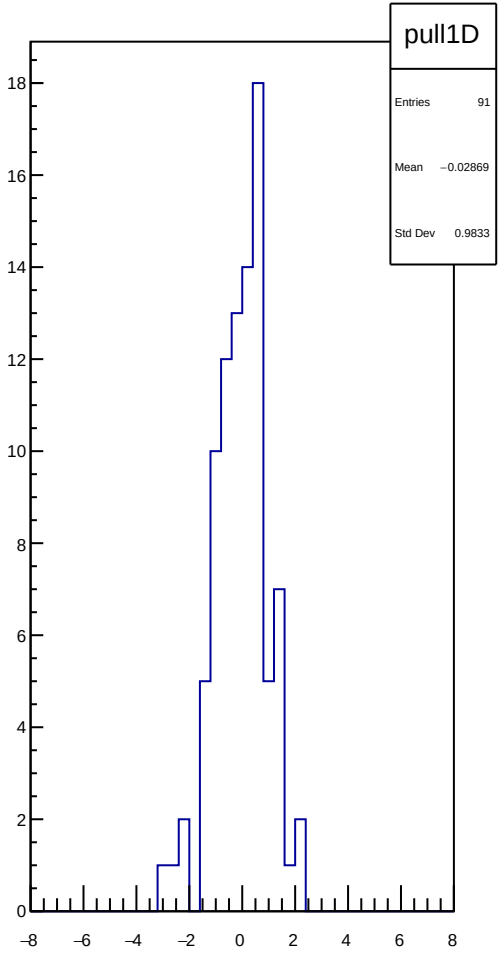

asym_sam_15_48_dd_rms vs run
χ² / ndf 1.825e+04 / 90
p0 393.5 ± 0.2945
550
500
450
400
350

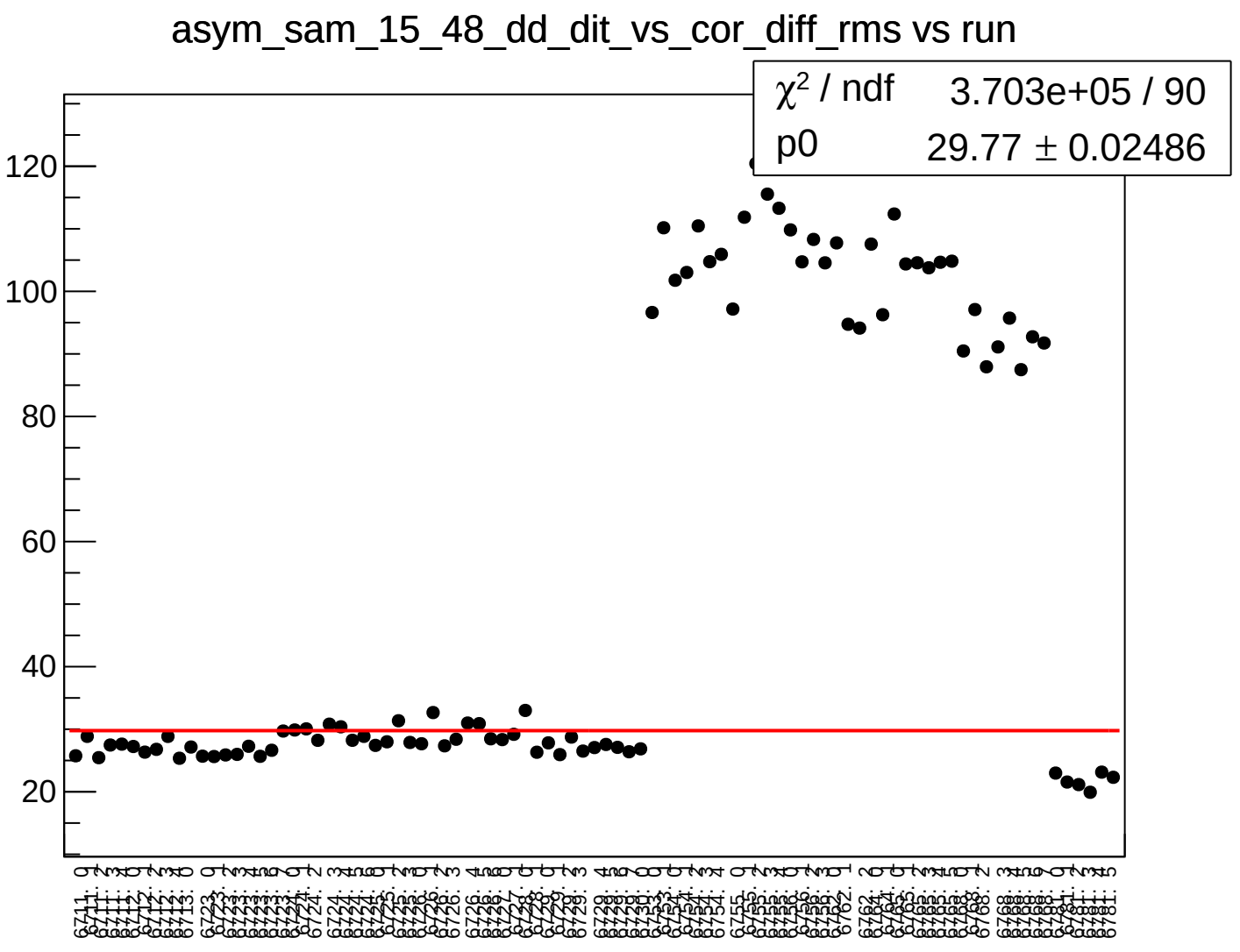

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 71.74 / 90
p0 1.129e−14 ± 2.144e−14
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 91
Mean 155.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

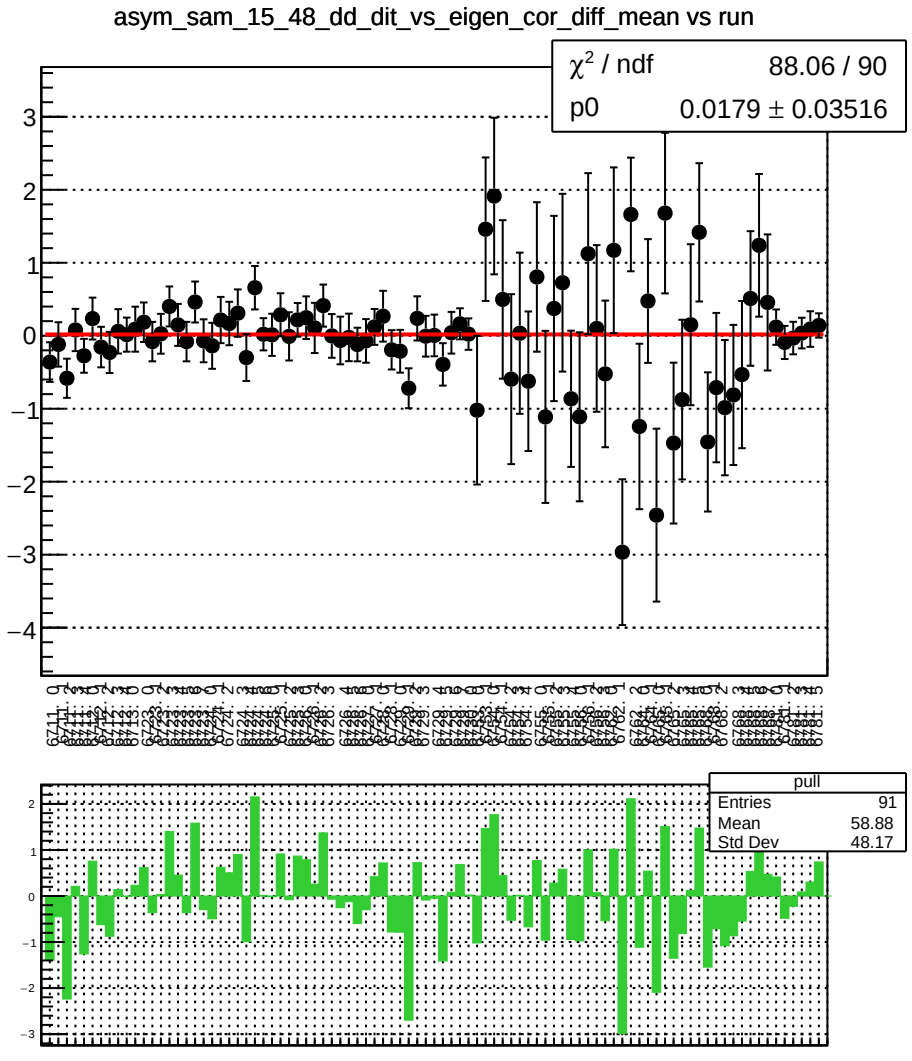

pull1D
Entries 91
Mean −0.02798
Std Dev 0.8874
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

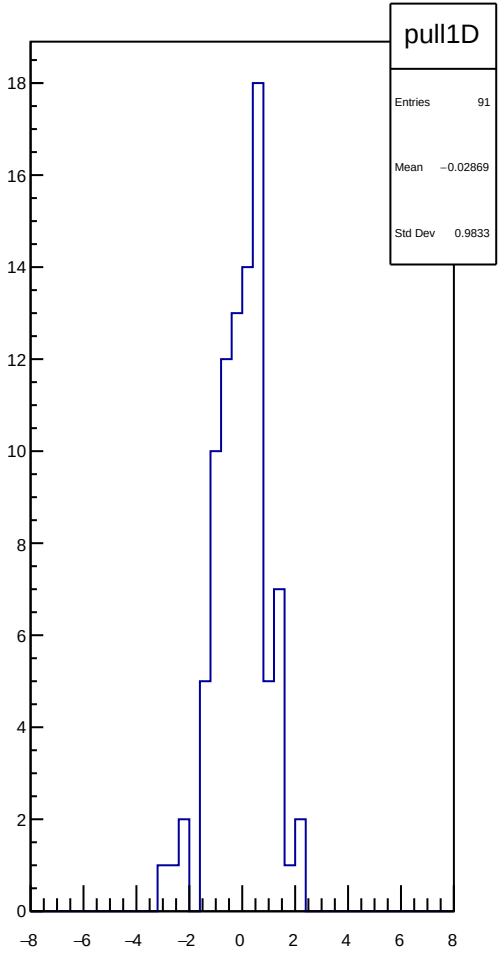

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.125e+05 / 90
p0 1.432e−11 ± 1.516e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

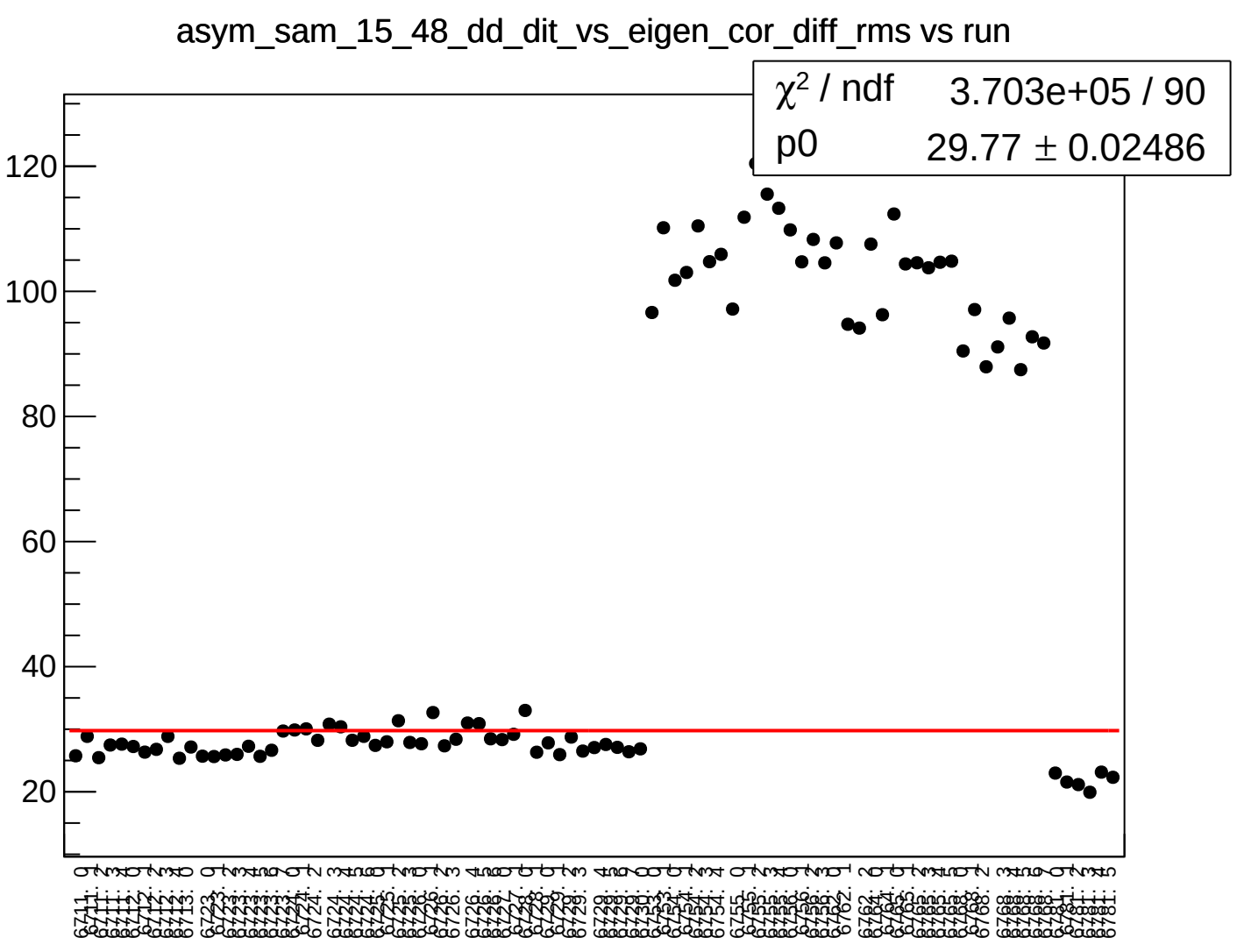

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.06 / 90
p0 0.0179 ± 0.03516
pull
Entries 91
Mean 58.88
Std Dev 48.17

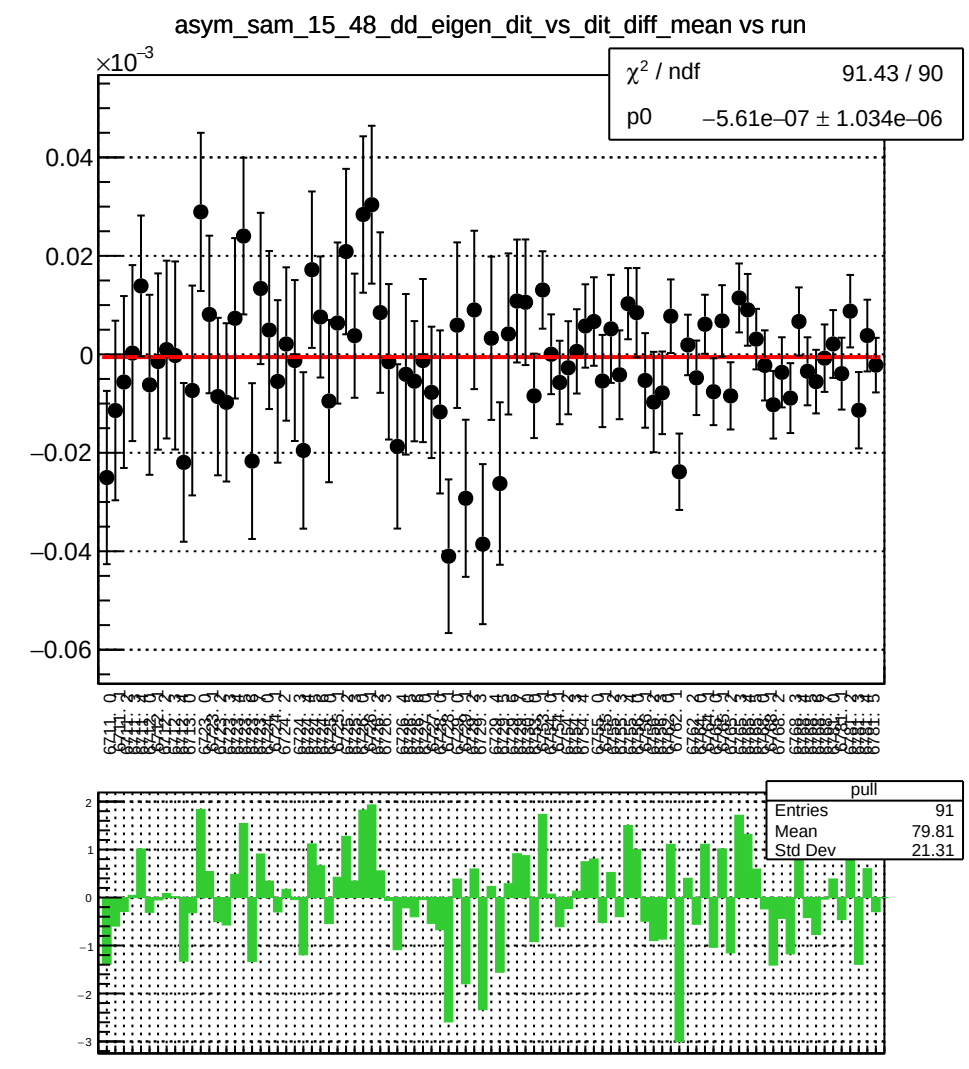

pull1D
Entries 91
Mean −0.02869
Std Dev 0.9833

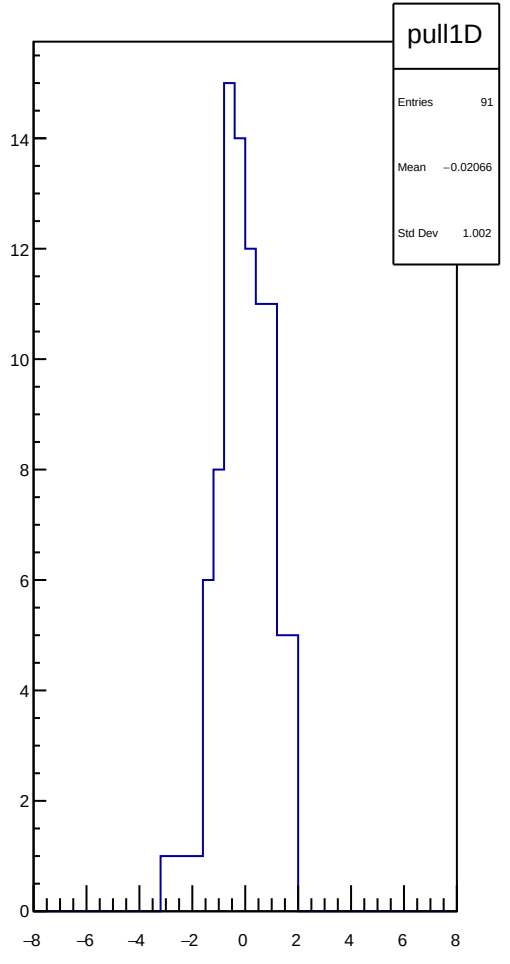

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.703e+05 / 90
p0 29.77 ± 0.02486
120
100
80
60
40
20

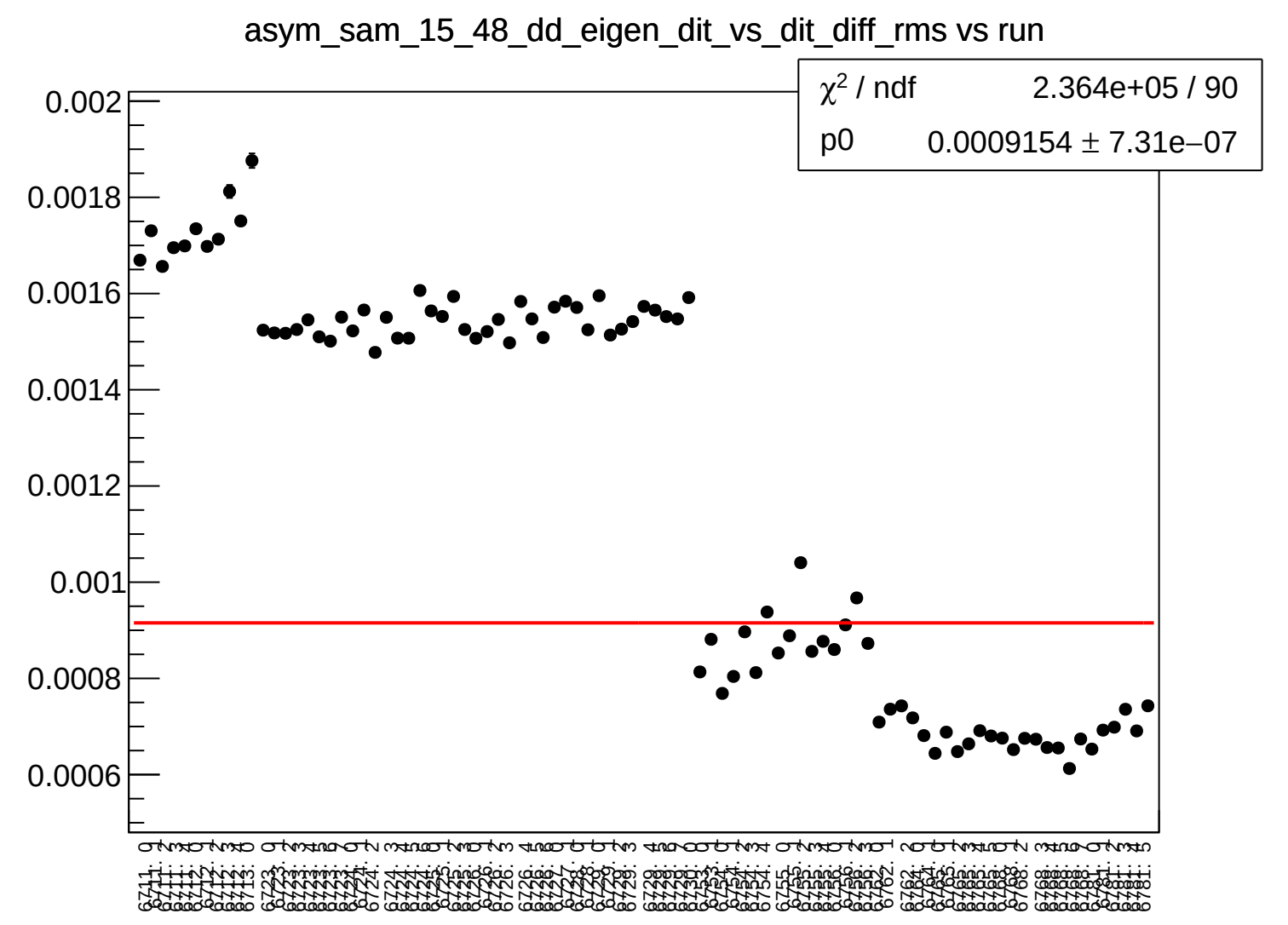

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.06 / 90
p0 0.0179 ± 0.03516
pull
Entries 91
Mean 58.88
Std Dev 48.17

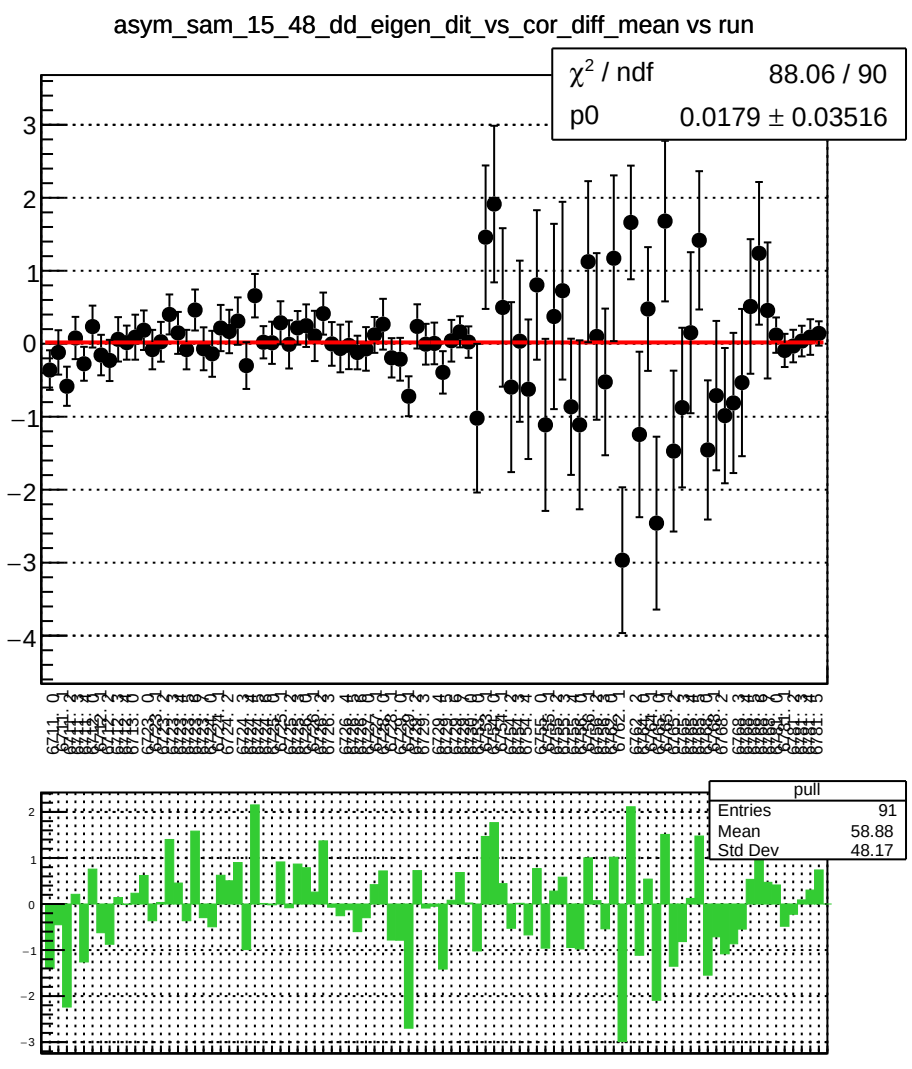

pull1D
Entries 91
Mean −0.02869
Std Dev 0.9833

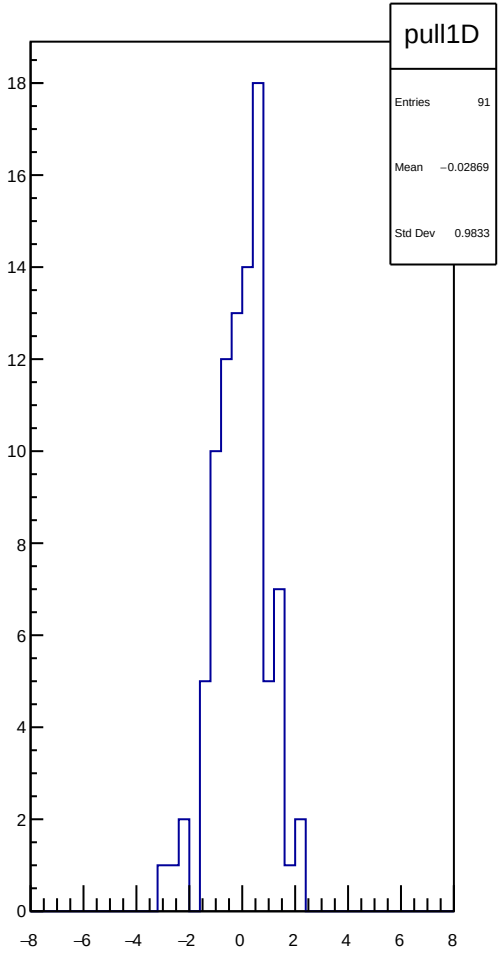

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.703e+05 / 90
p0 29.77 ± 0.02486
120
100
80
60
40
20

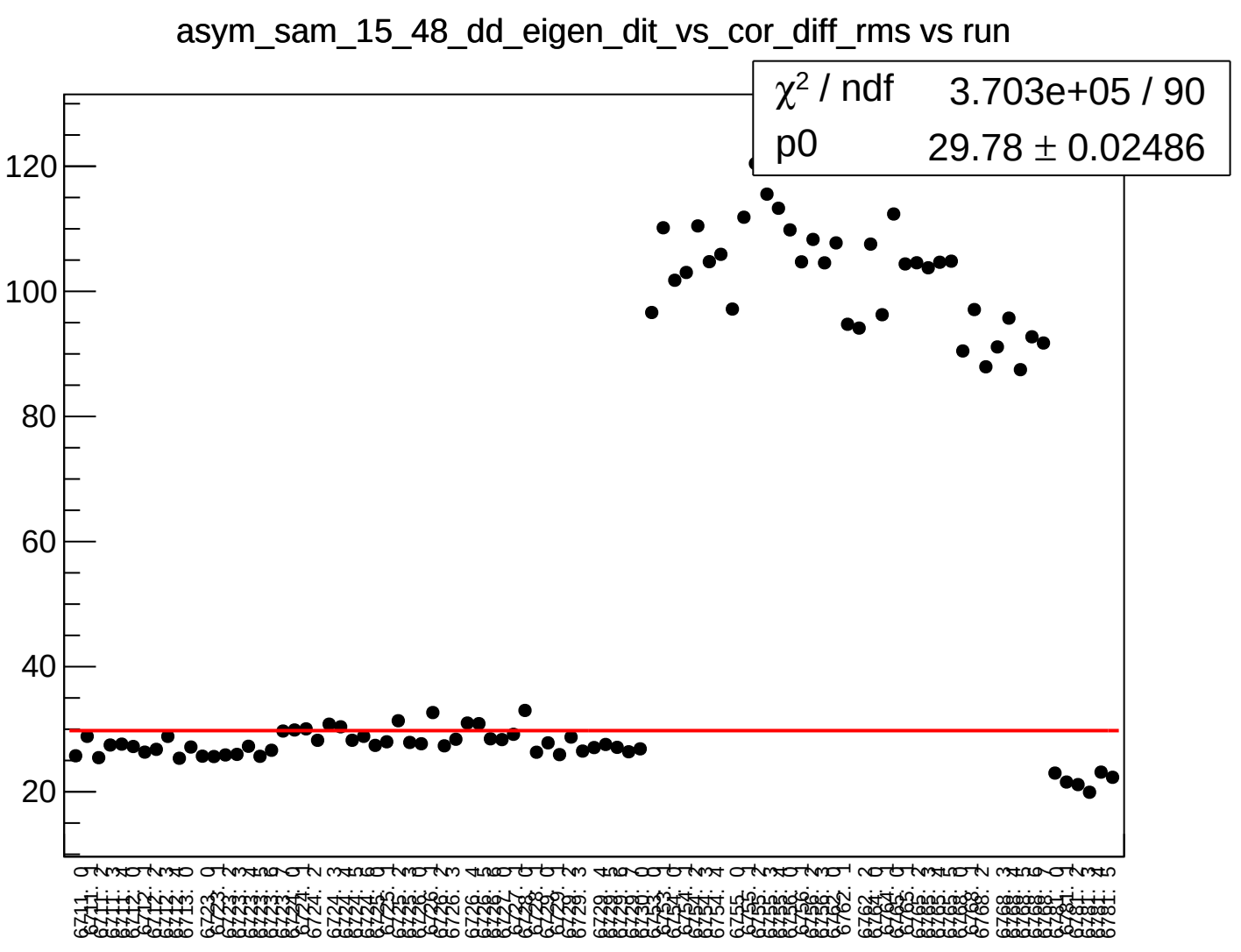

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.43 / 90
p0 −5.61e−07 ± 1.034e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 79.81
Std Dev 21.31
2
1
0
−1
−2
−3

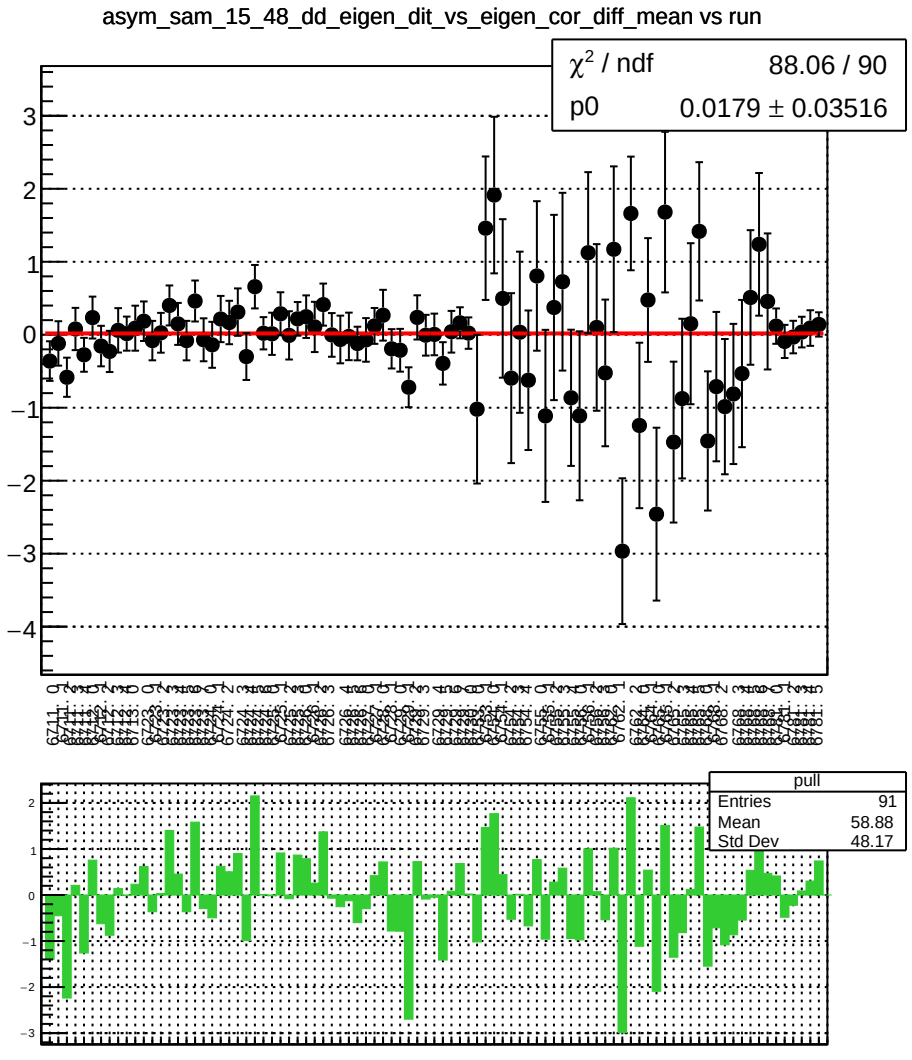

pull1D
Entries 91
Mean −0.02066
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

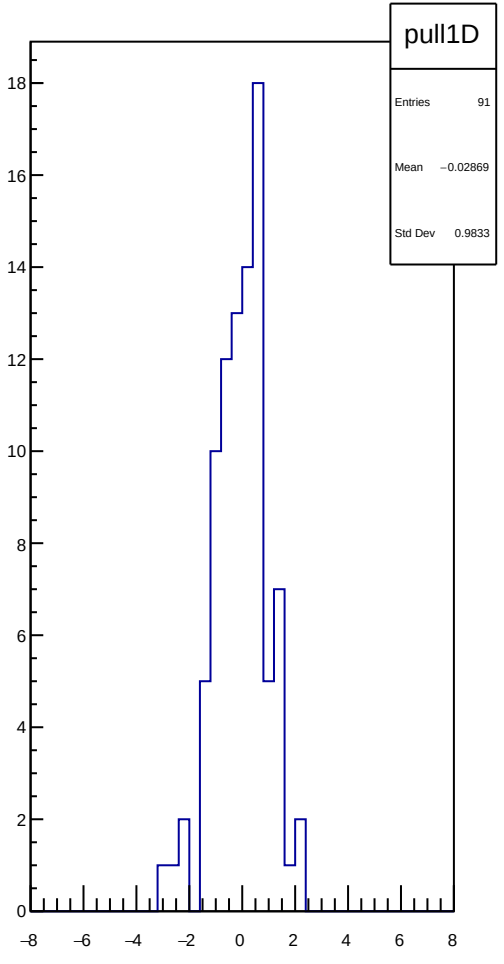

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.364e+05 / 90
p0 0.0009154 ± 7.31e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

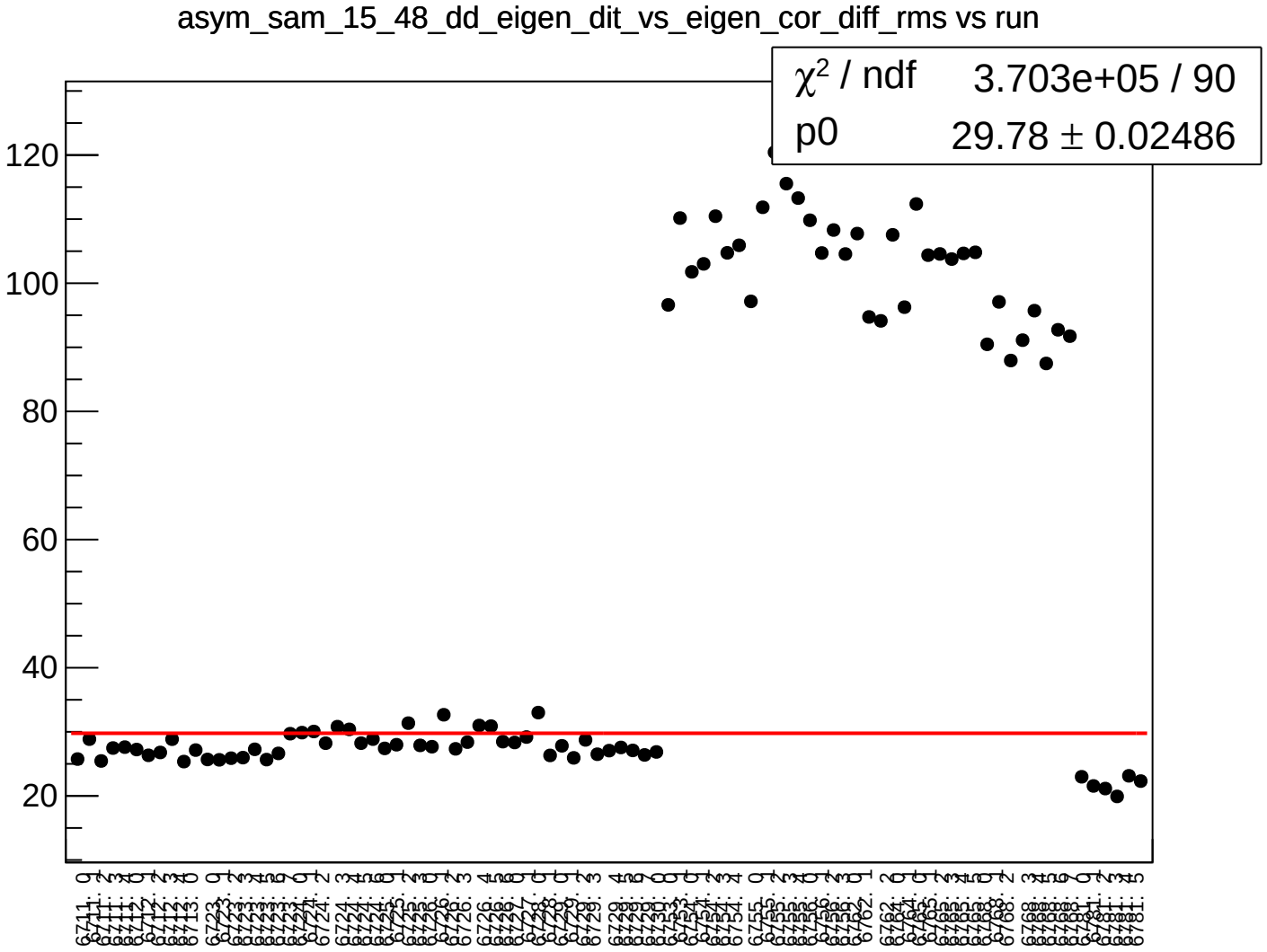

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.06 / 90
p0 0.0179 ± 0.03516
pull
Entries 91
Mean 58.88
Std Dev 48.17

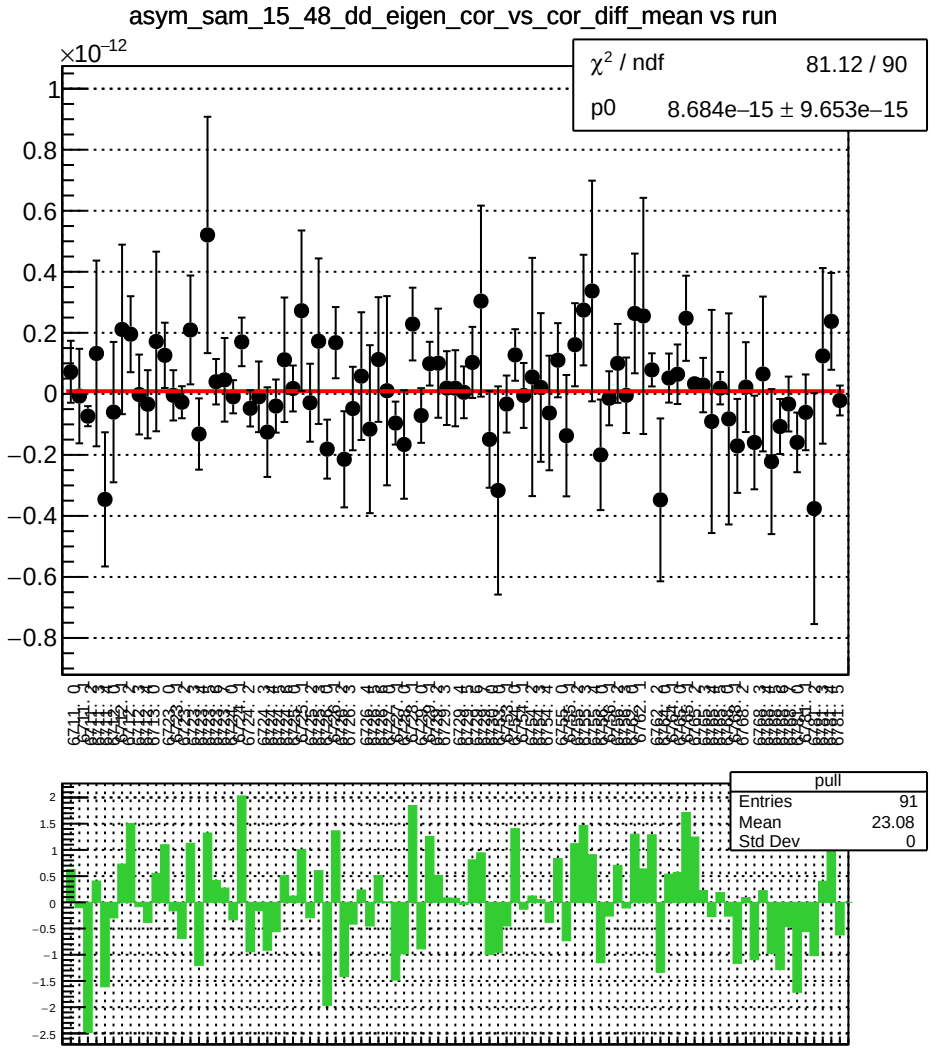

pull1D
Entries 91
Mean −0.02869
Std Dev 0.9833

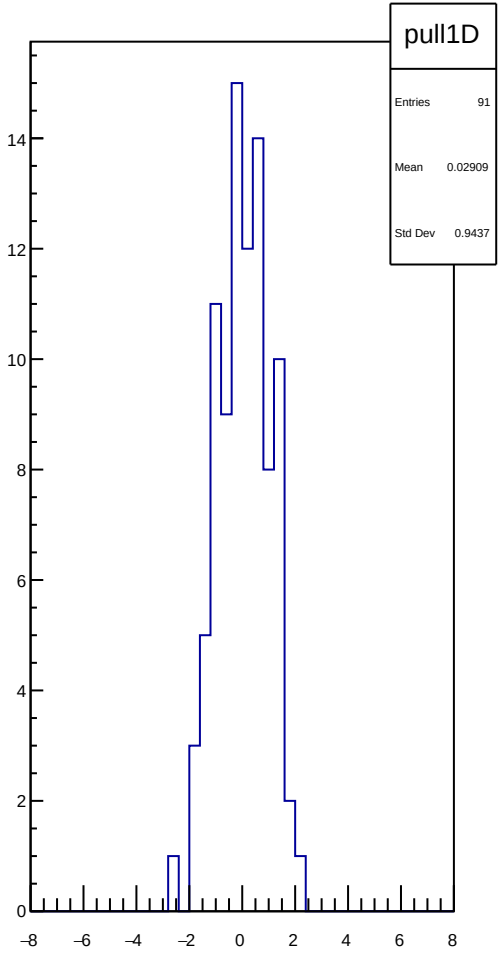

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.703e+05 / 90
p0 29.78 ± 0.02486
120
100
80
60
40
20

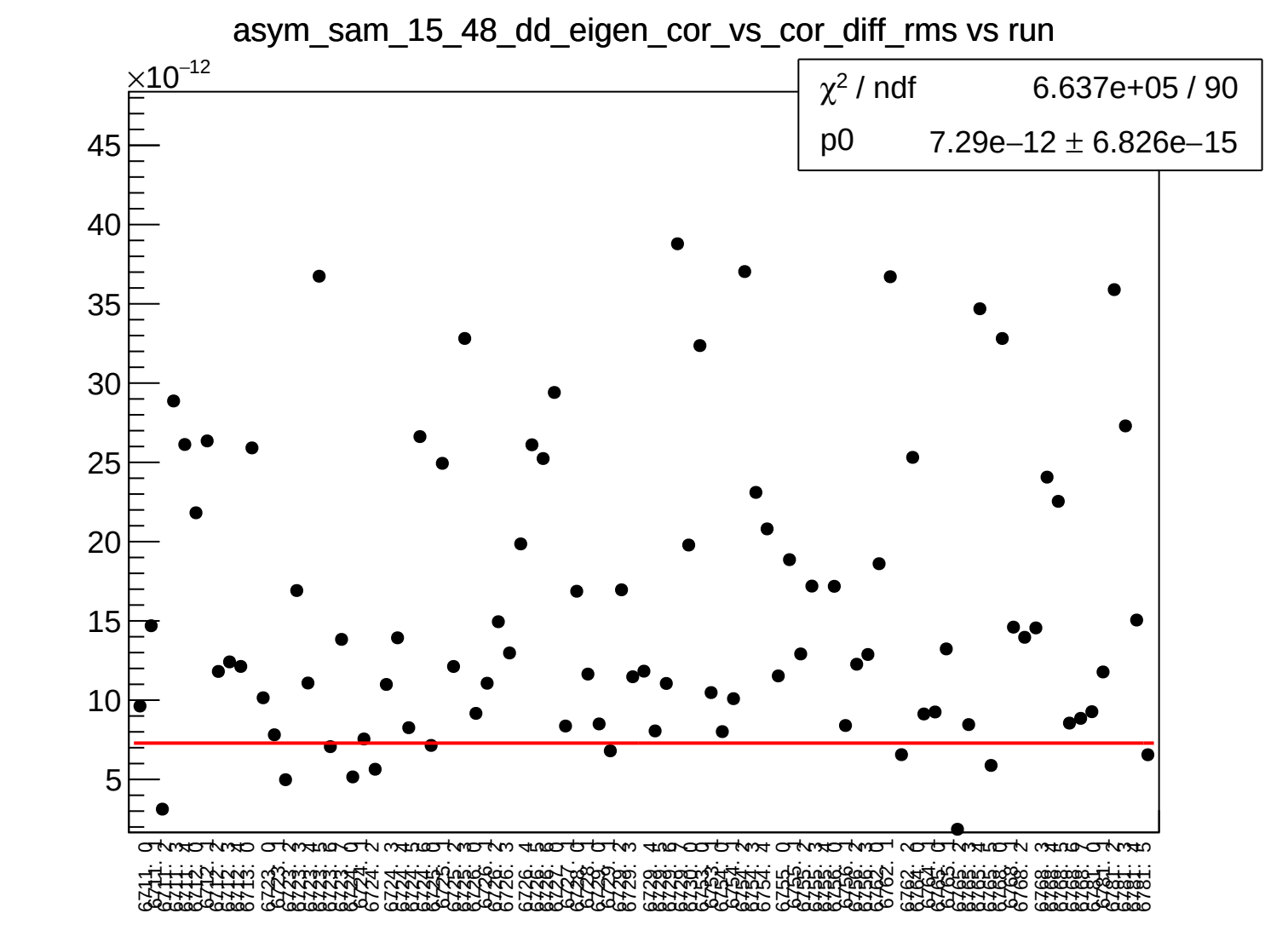

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.06 / 90
p0 0.0179 ± 0.03516
pull
Entries 91
Mean 58.88
Std Dev 48.17

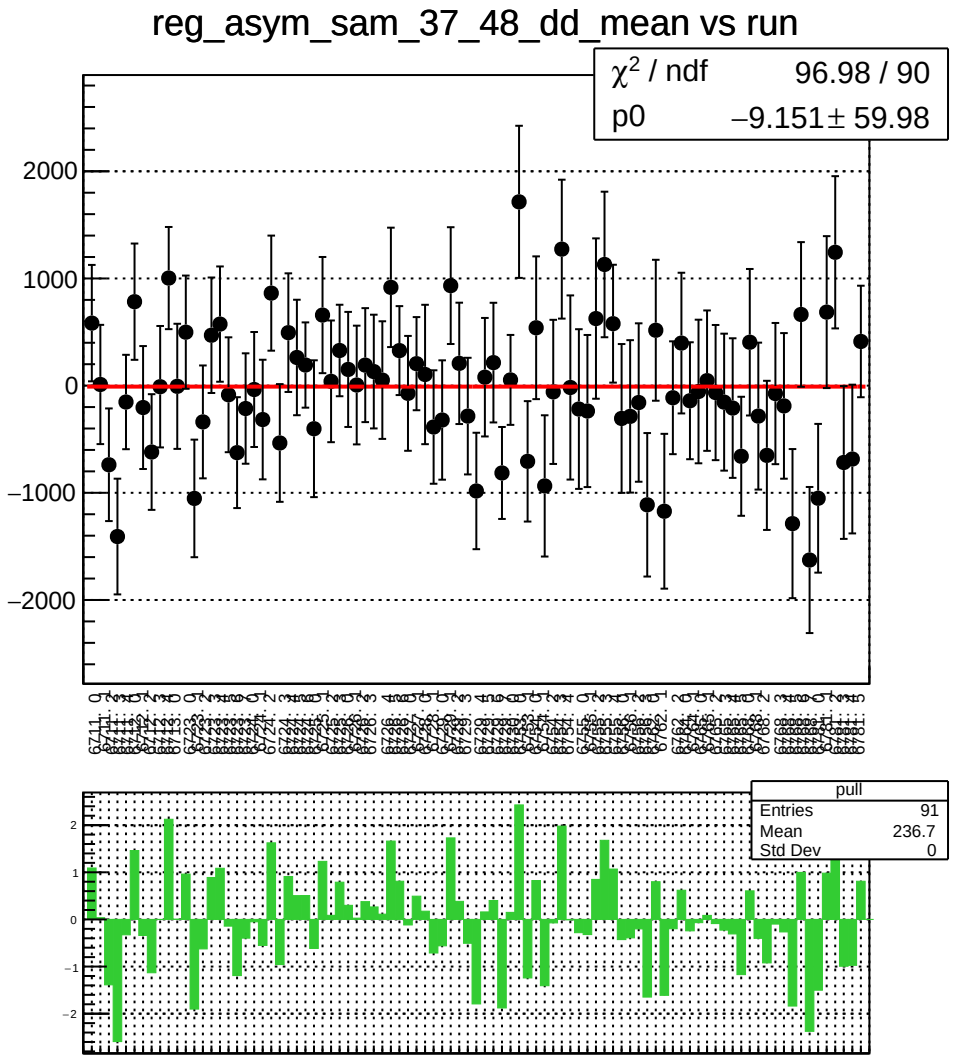

pull1D
Entries 91
Mean −0.02869
Std Dev 0.9833

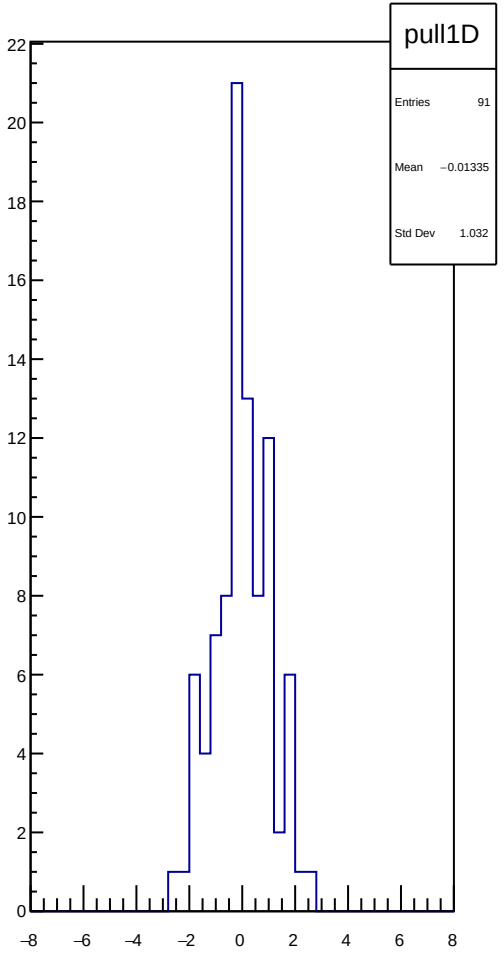

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.703e+05 / 90
p0 29.78 ± 0.02486
120
100
80
60
40
20

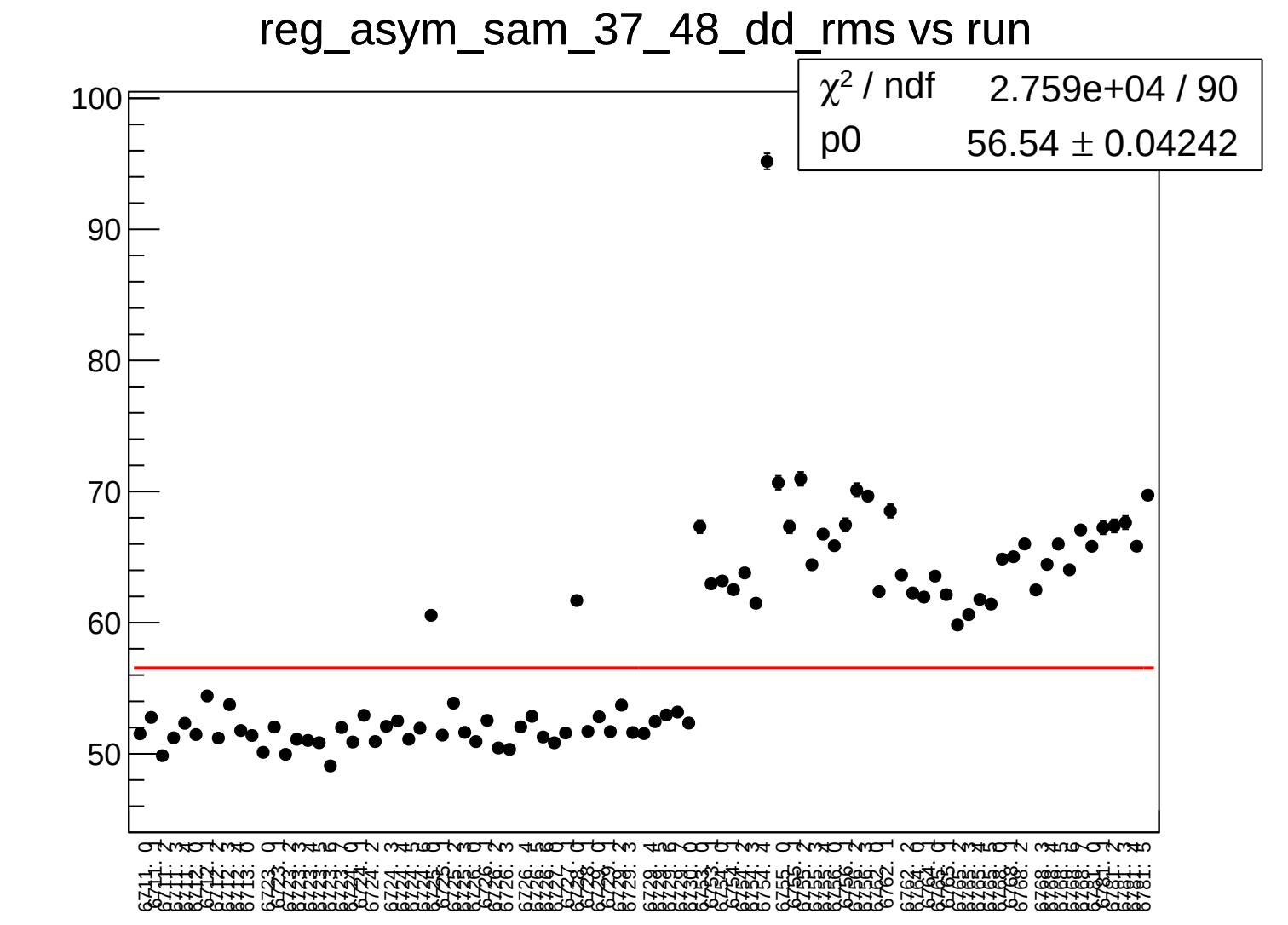

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.12 / 90
p0 8.684e−15 ± 9.653e−15
pull
Entries 91
Mean 23.08
Std Dev 0

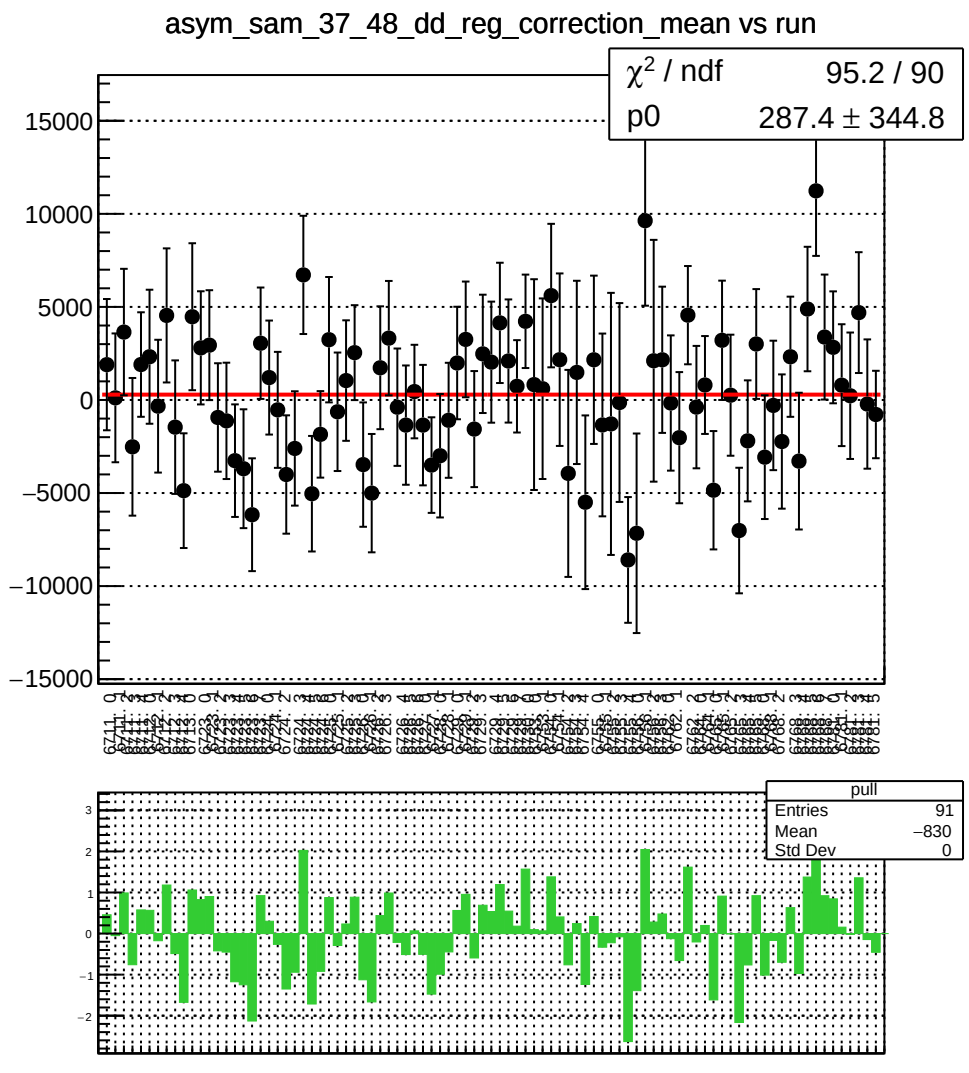

pull1D
Entries 91
Mean 0.02909
Std Dev 0.9437

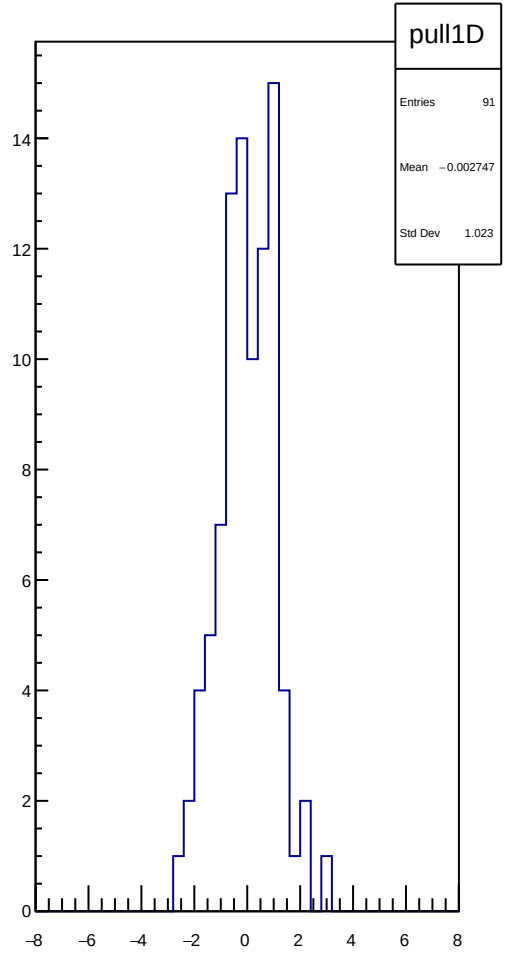

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.637e+05 / 90
p0 7.29e−12 ± 6.826e−15
45
40
35
30
25
20
15
10
5

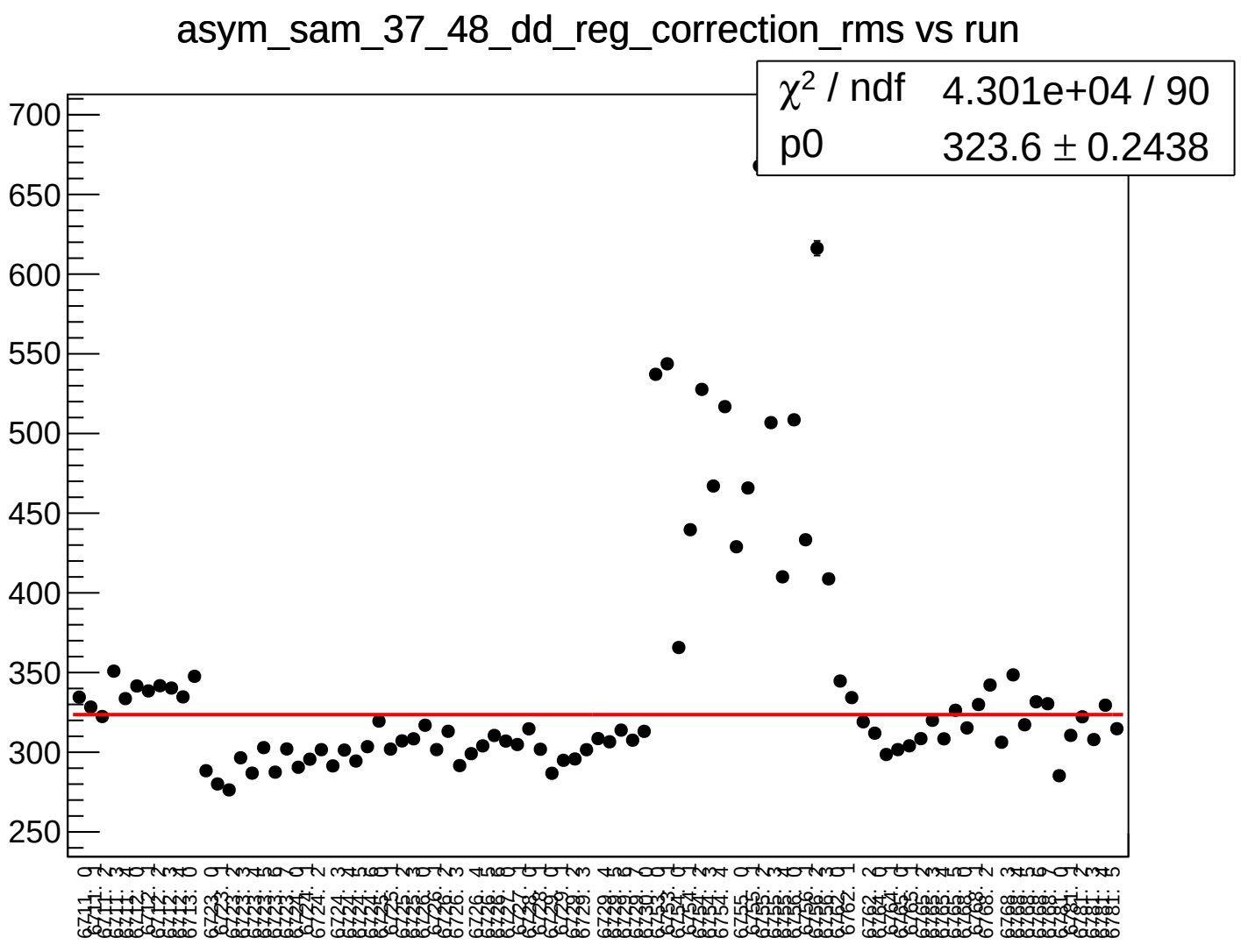

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 96.98 / 90
p0 −9.151 ± 59.98
2000
1000
0
−1000
−2000
pull
Entries 91
Mean 236.7
Std Dev 0
2
1
0
−1
−2

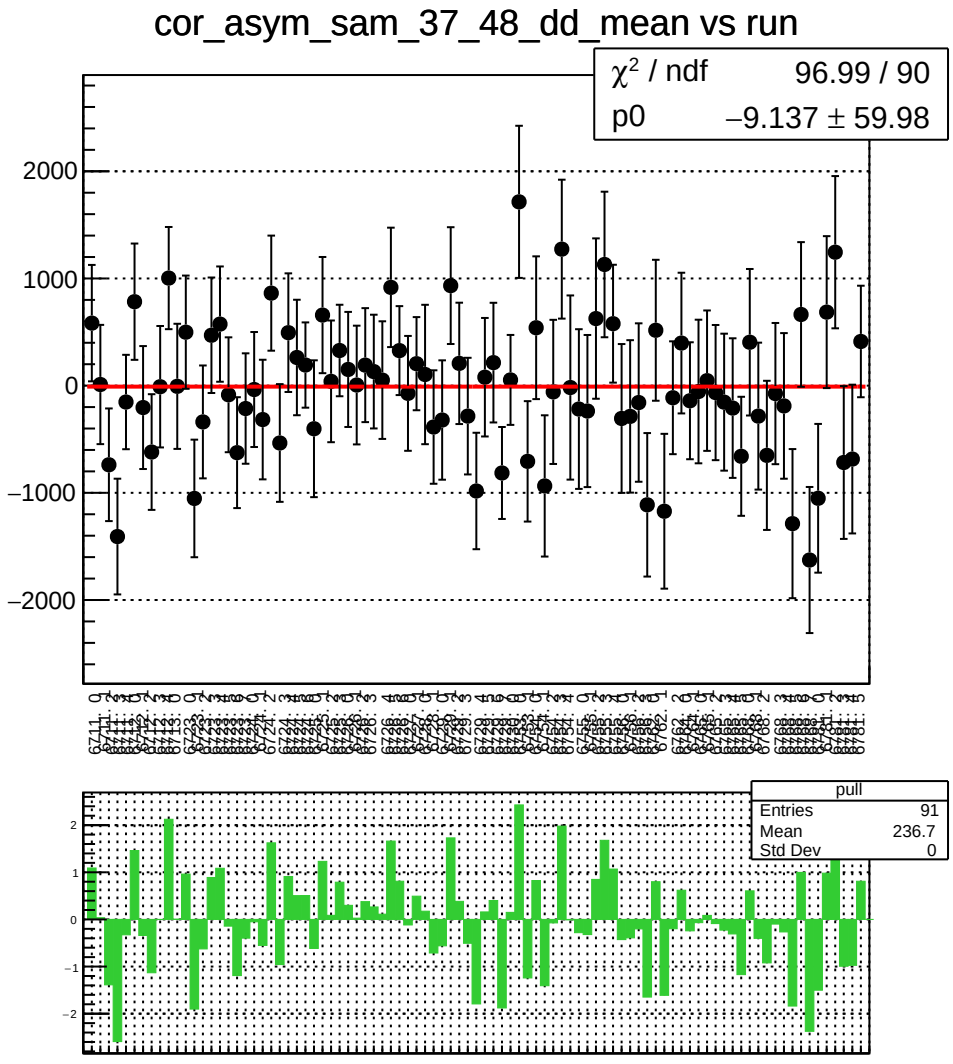

pull1D
Entries 91
Mean −0.01335
Std Dev 1.032
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

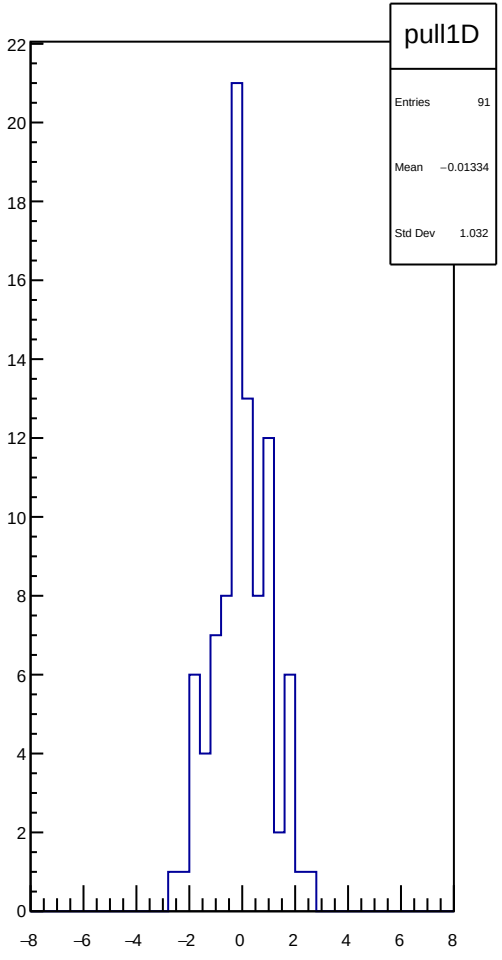

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 2.759e+04 / 90
p0 56.54 ± 0.04242
100
90
80
70
60
50

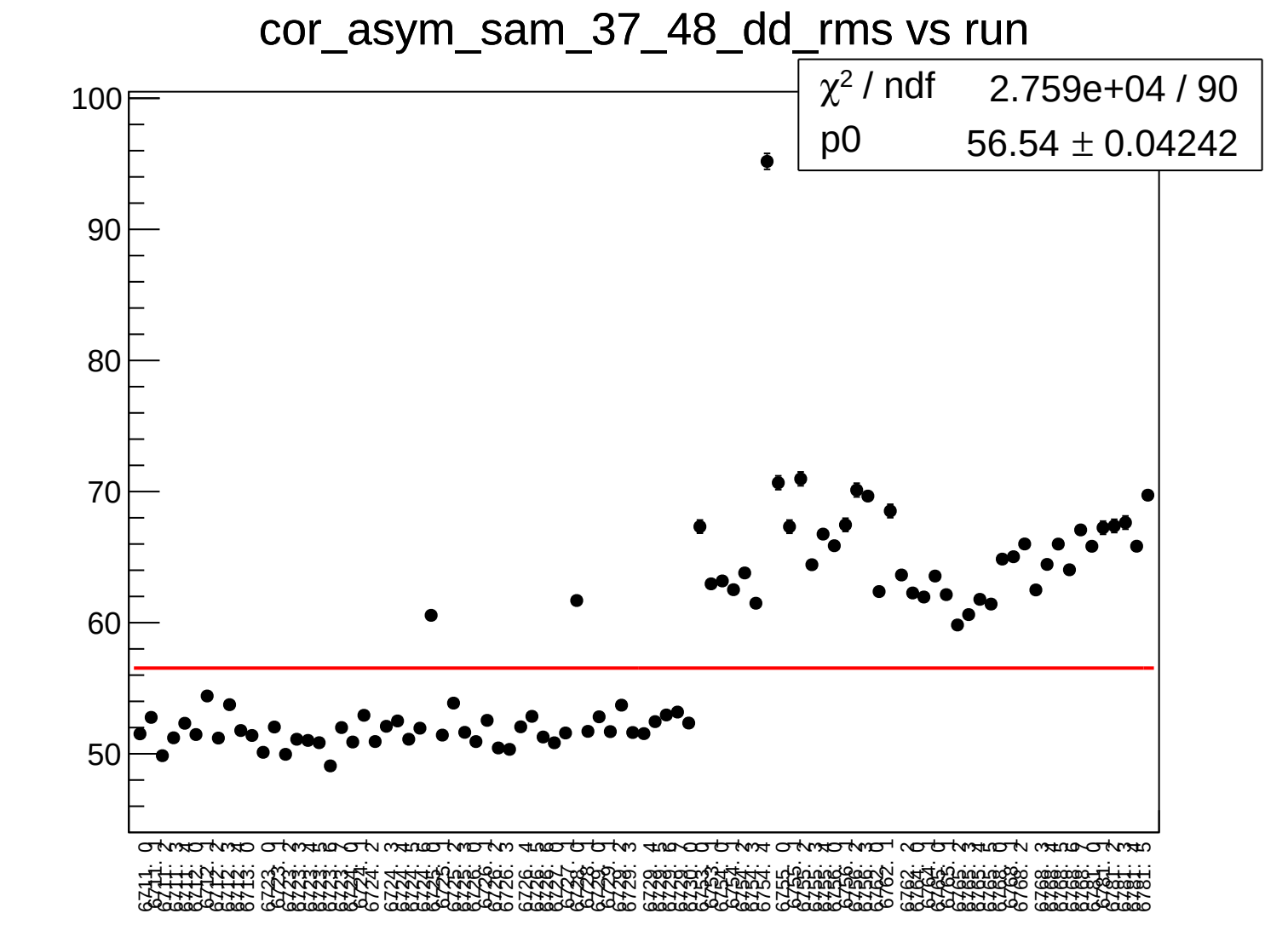

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 95.2 / 90
p0 287.4 ± 344.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −830
Std Dev 0
3
2
1
0
−1
−2

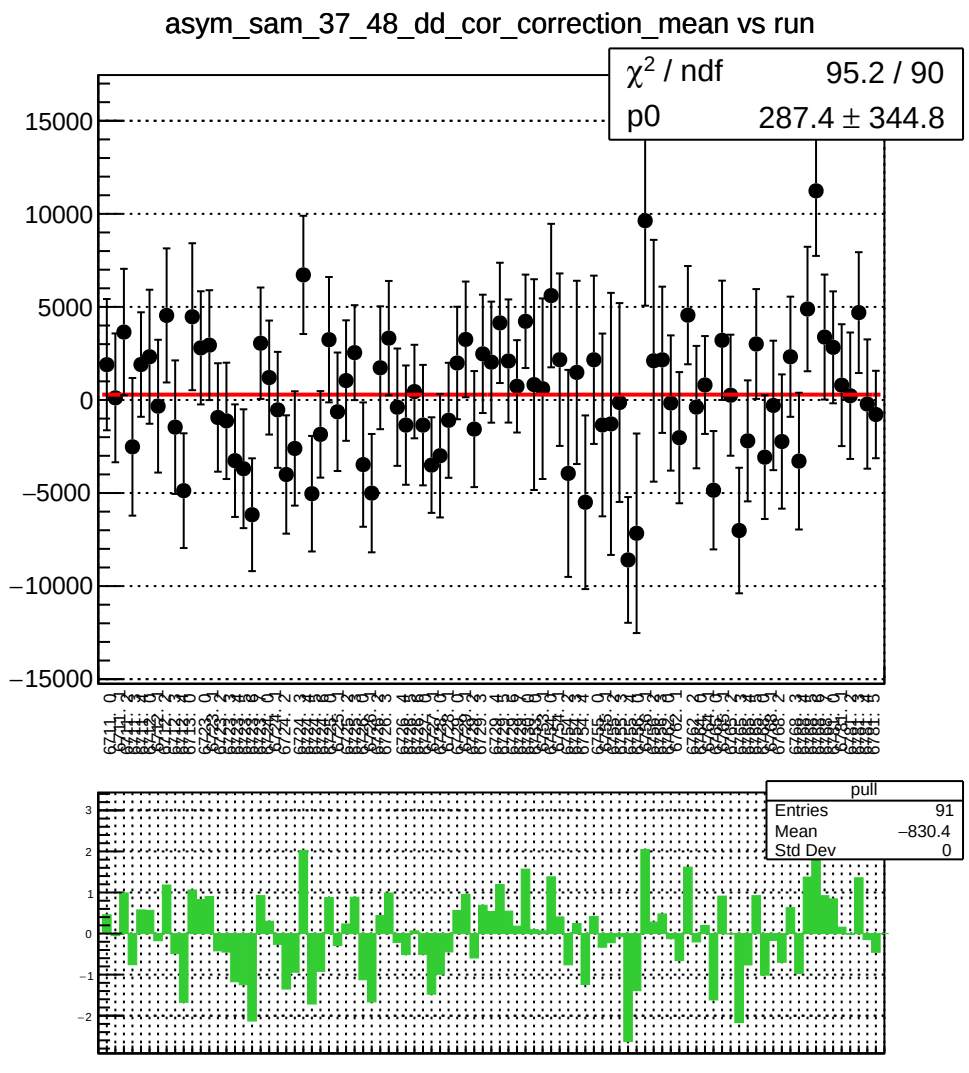

pull1D
Entries 91
Mean −0.002747
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

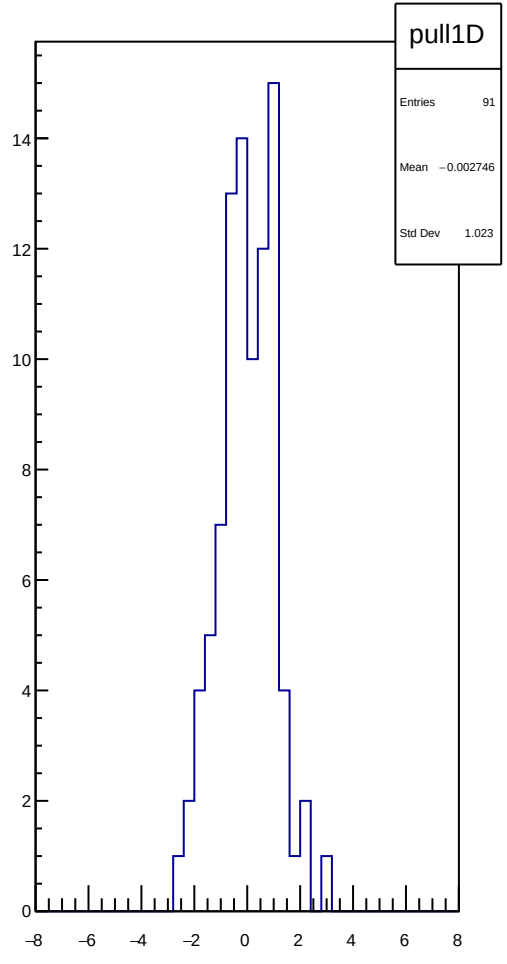

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 4.301e+04 / 90
p0 323.6 ± 0.2438
700
650
600
550
500
450
400
350
300
250

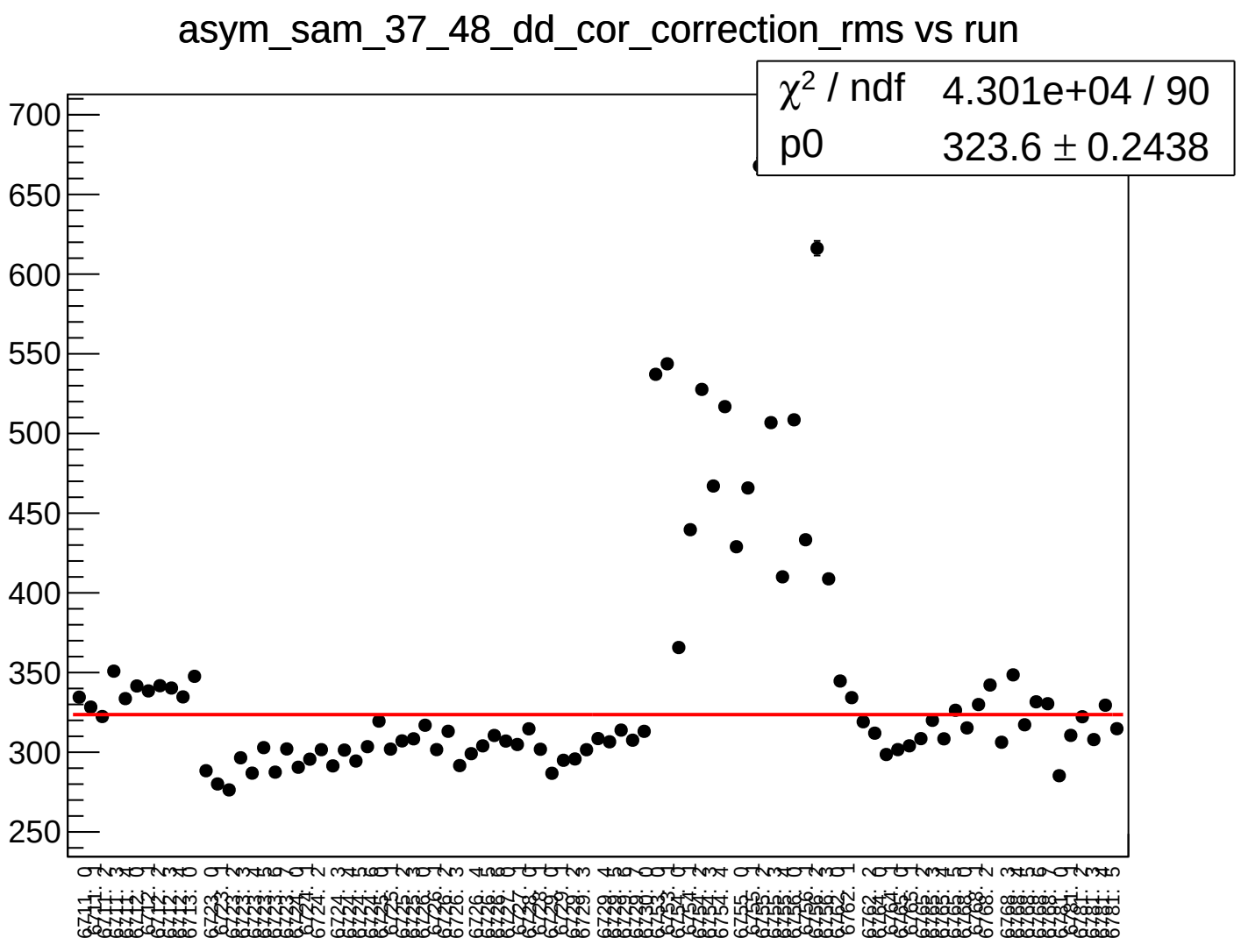

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 96.99 / 90
p0 −9.137 ± 59.98
2000
1000
0
−1000
−2000
pull
Entries 91
Mean 236.7
Std Dev 0
2
1
0
−1
−2

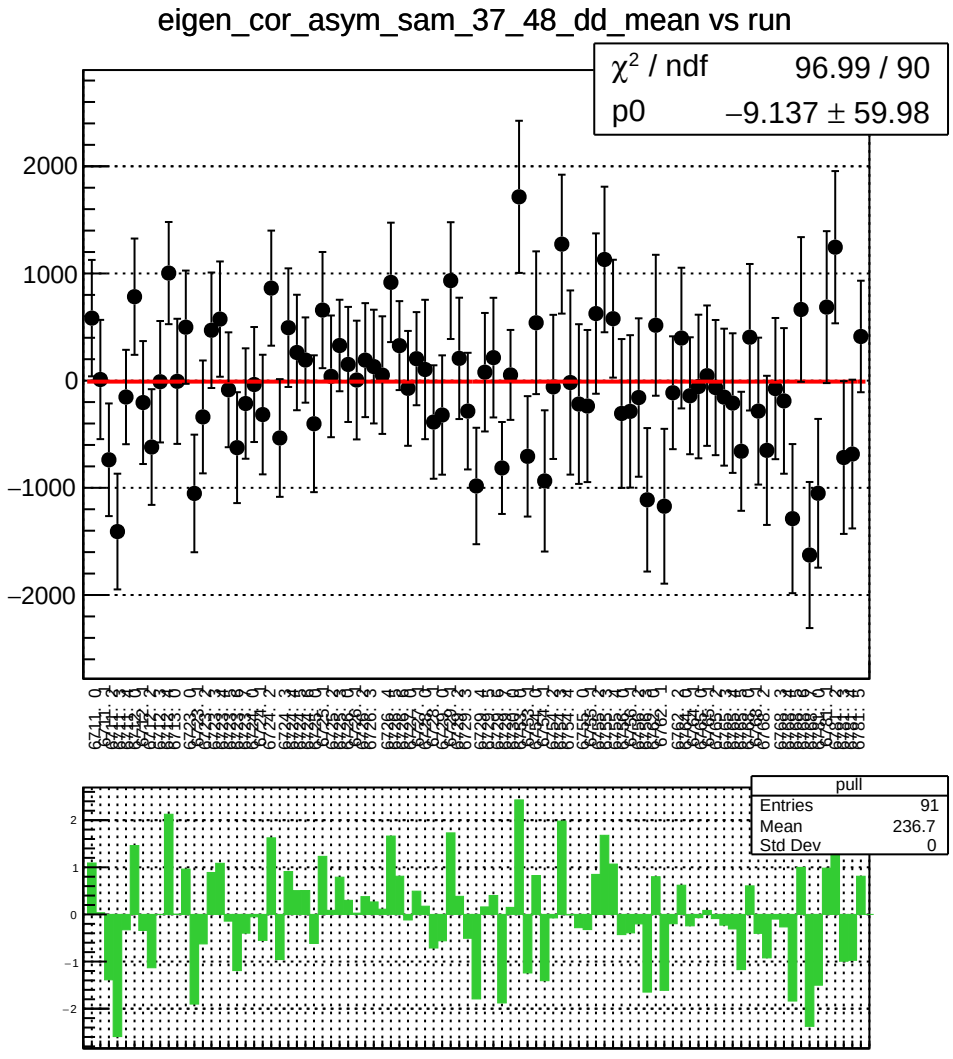

pull1D
Entries 91
Mean −0.01334
Std Dev 1.032
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

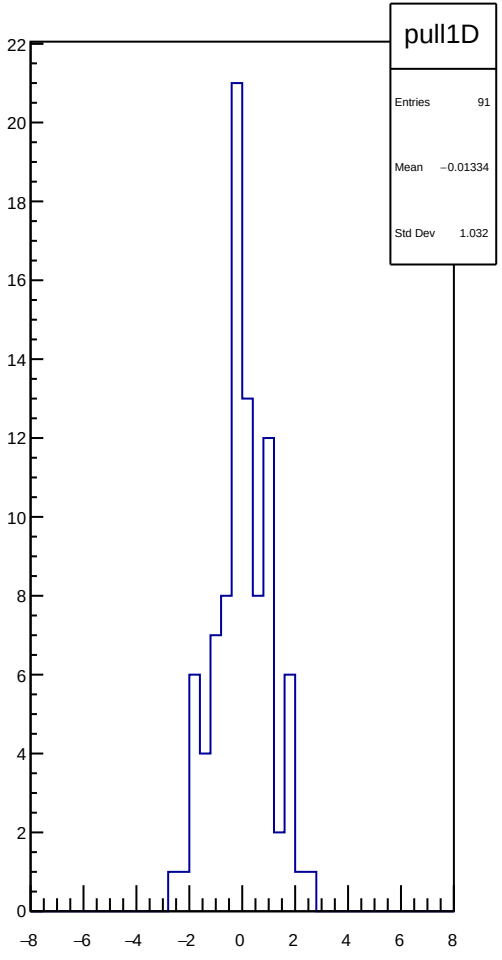

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 2.759e+04 / 90
p0 56.54 ± 0.04242
100
90
80
70
60
50

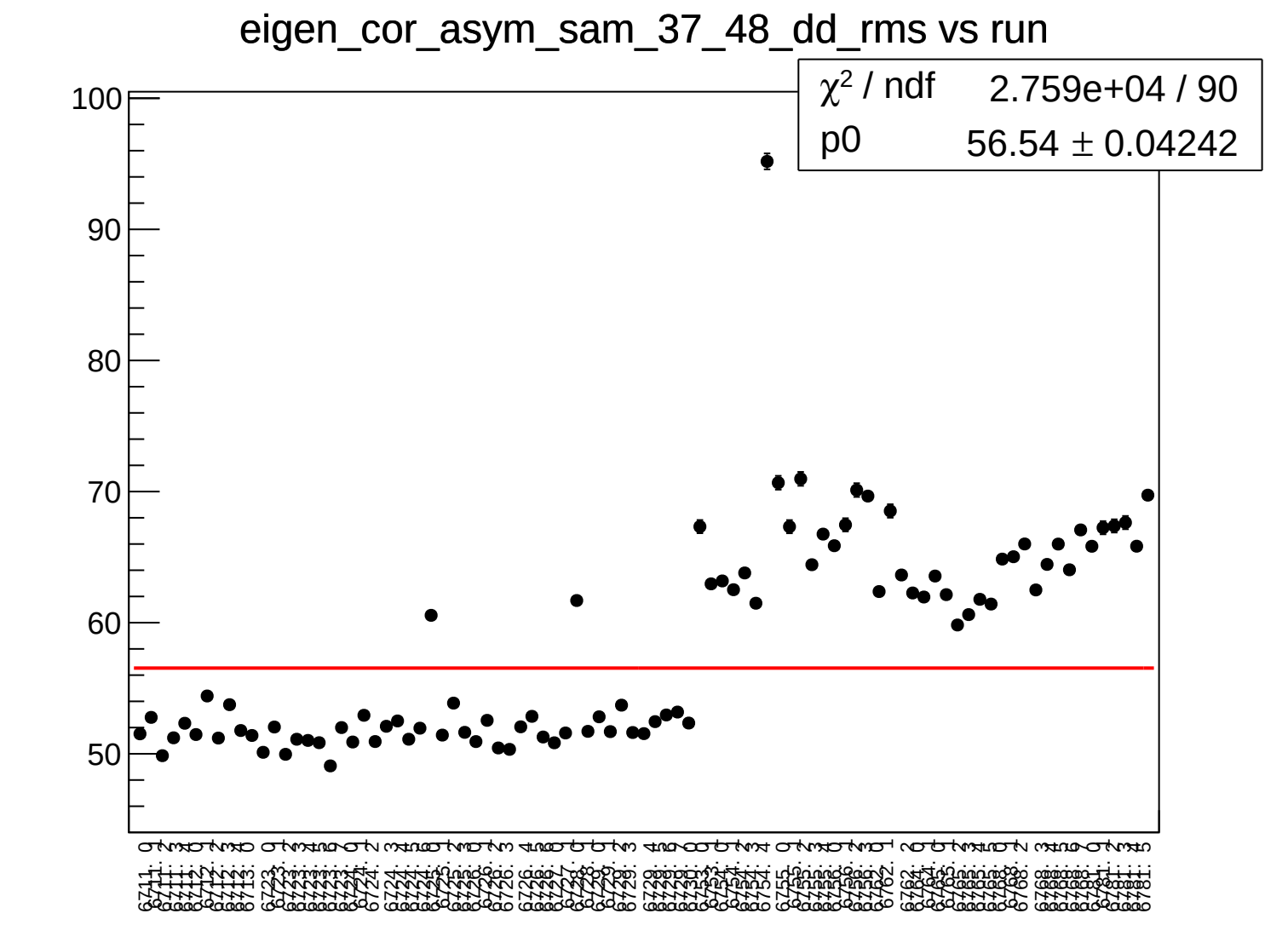

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 95.2 / 90
p0 287.4 ± 344.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −830.4
Std Dev 0
3
2
1
0
−1
−2

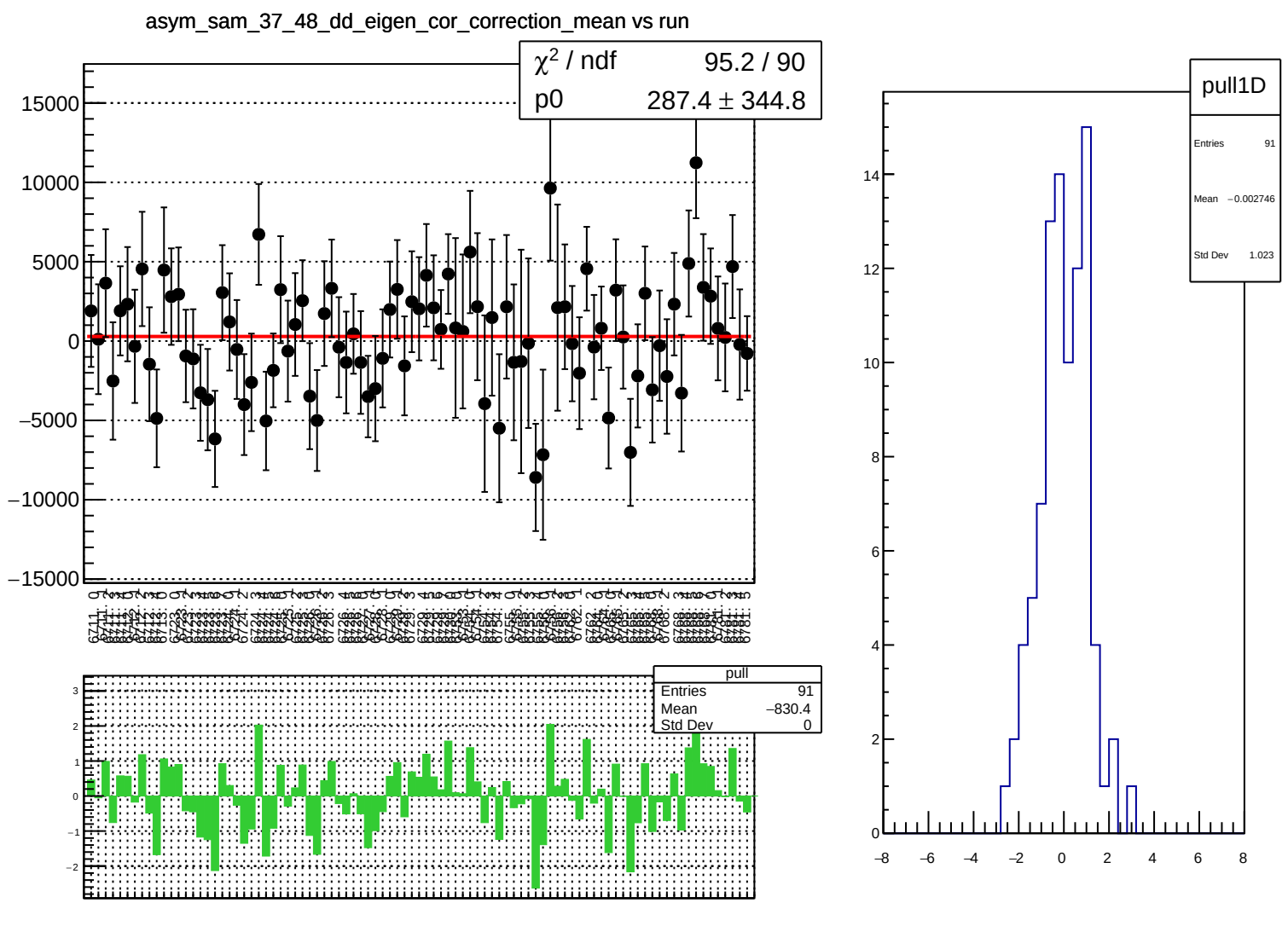

pull1D
Entries 91
Mean −0.002746
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

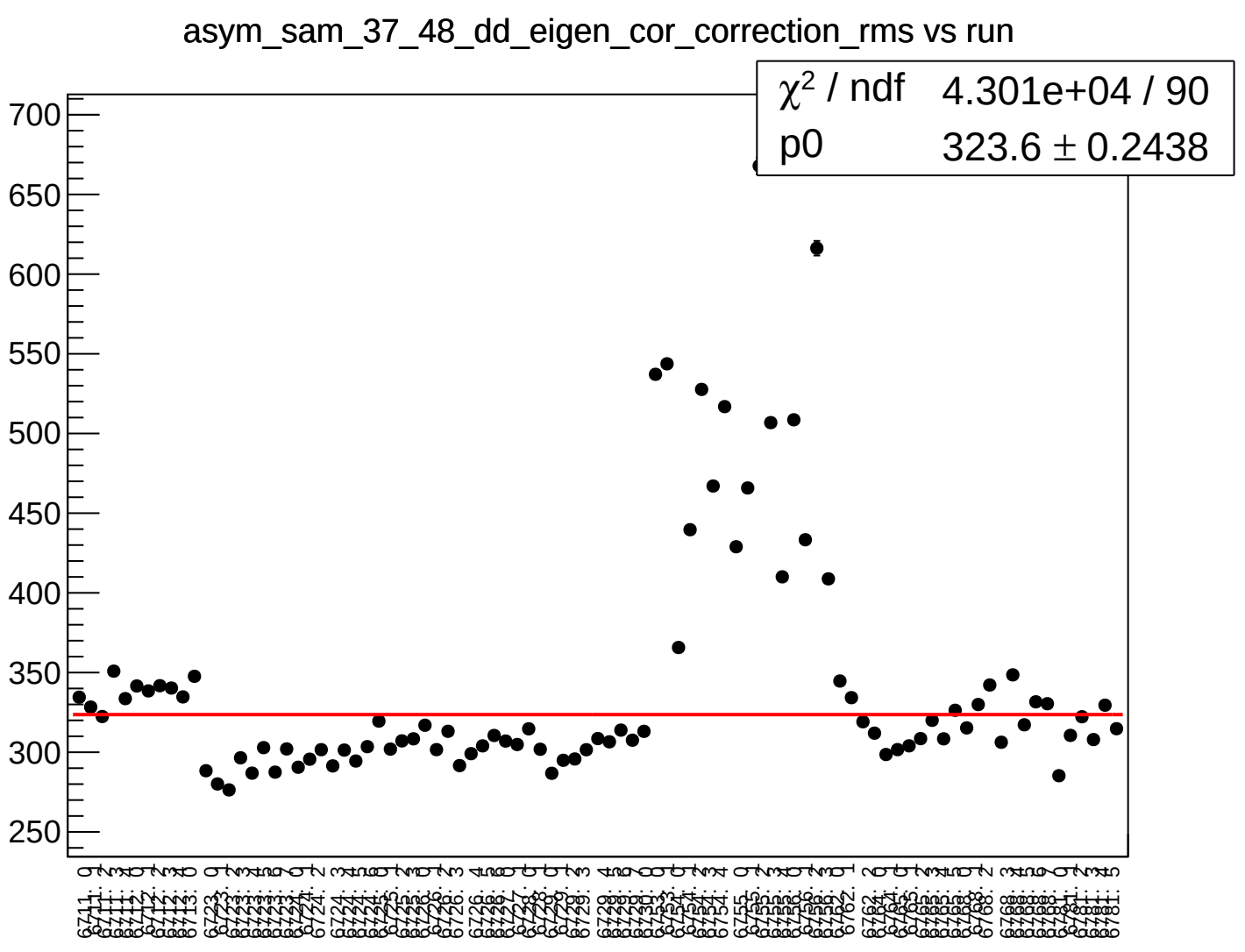

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 4.301e+04 / 90
p0 323.6 ± 0.2438
700
650
600
550
500
450
400
350
300
250

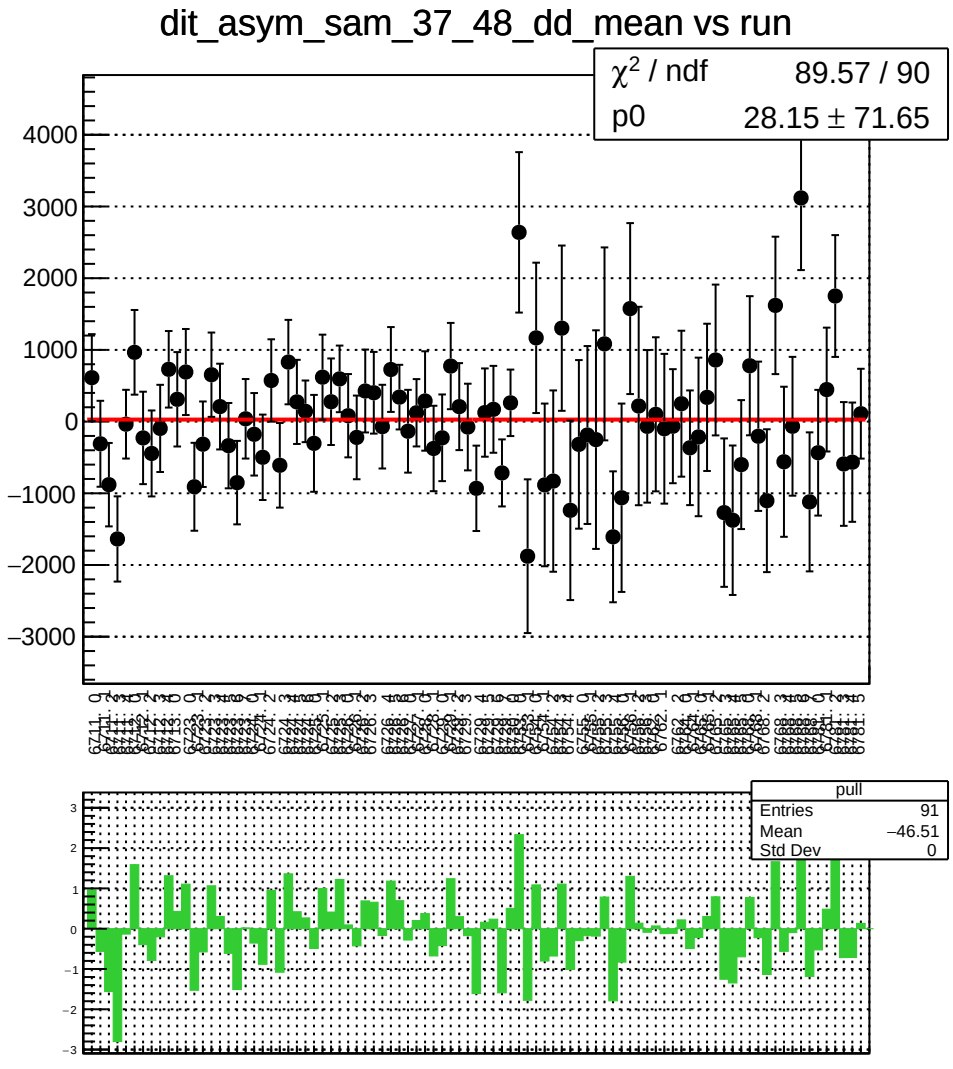

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 96.99 / 90
p0 −9.137 ± 59.98
2000
1000
0
−1000
−2000
pull
Entries 91
Mean 236.7
Std Dev 0
2
1
0
−1
−2

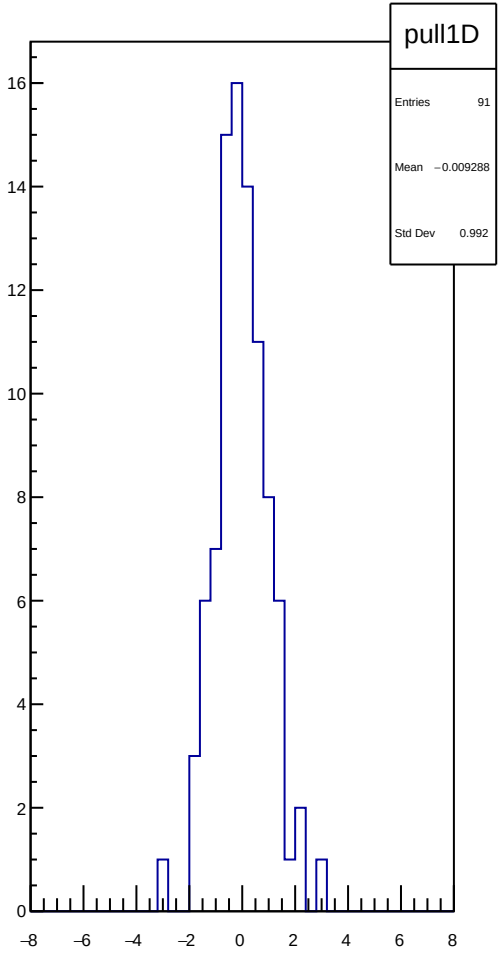

pull1D
Entries 91
Mean −0.01334
Std Dev 1.032
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

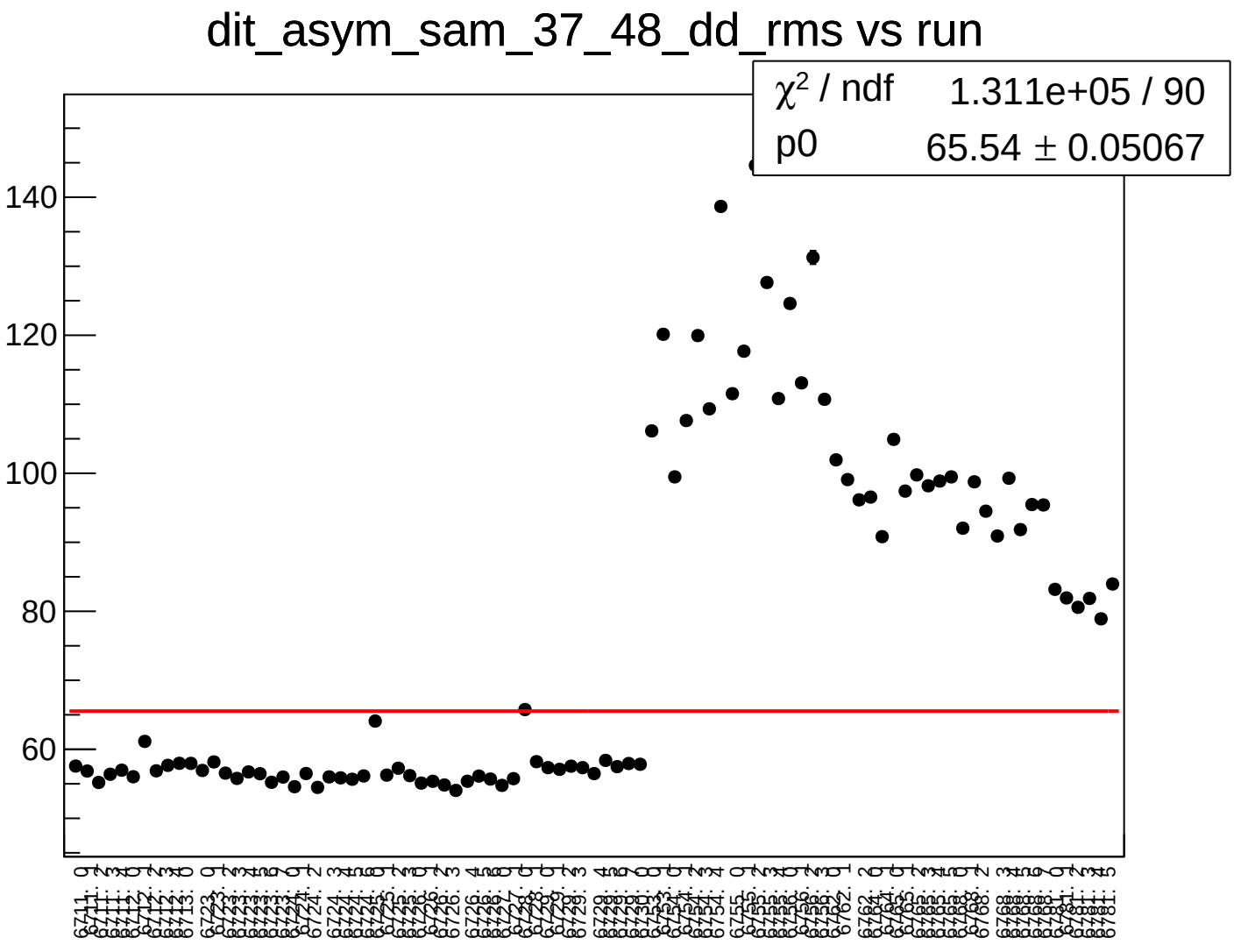

eigen_cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 2.759e+04 / 90
p0 56.54 ± 0.04242
100
90
80
70
60
50

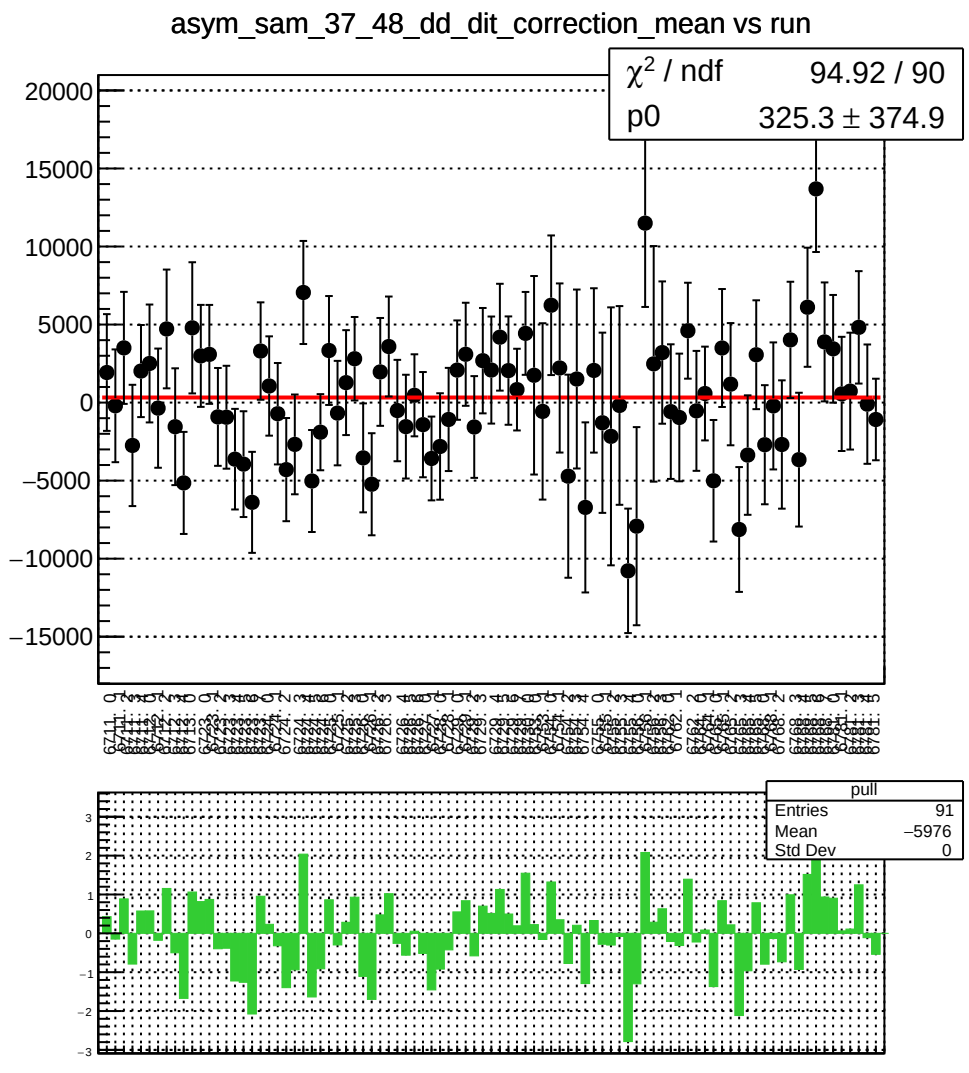

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 95.2 / 90
p0 287.4 ± 344.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean −830.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.002746
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

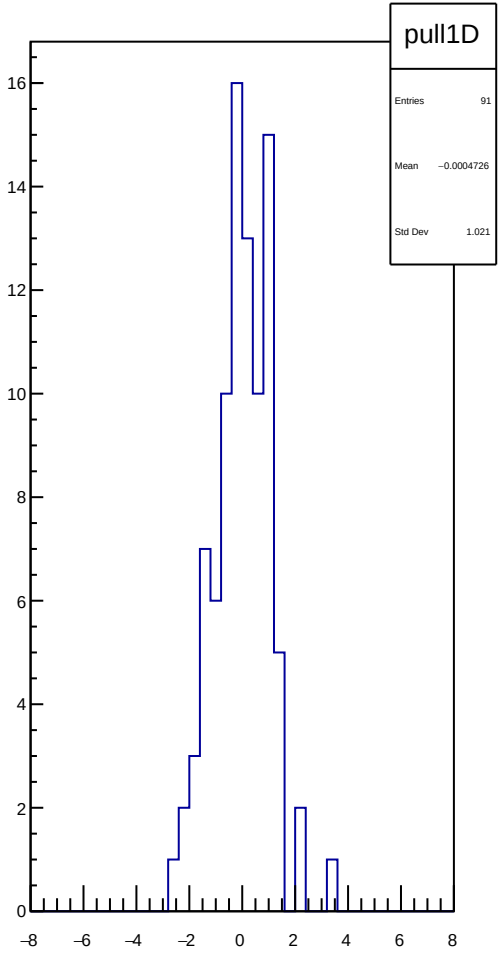

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.301e+04 / 90
p0 323.6 ± 0.2438
700
650
600
550
500
450
400
350
300
250

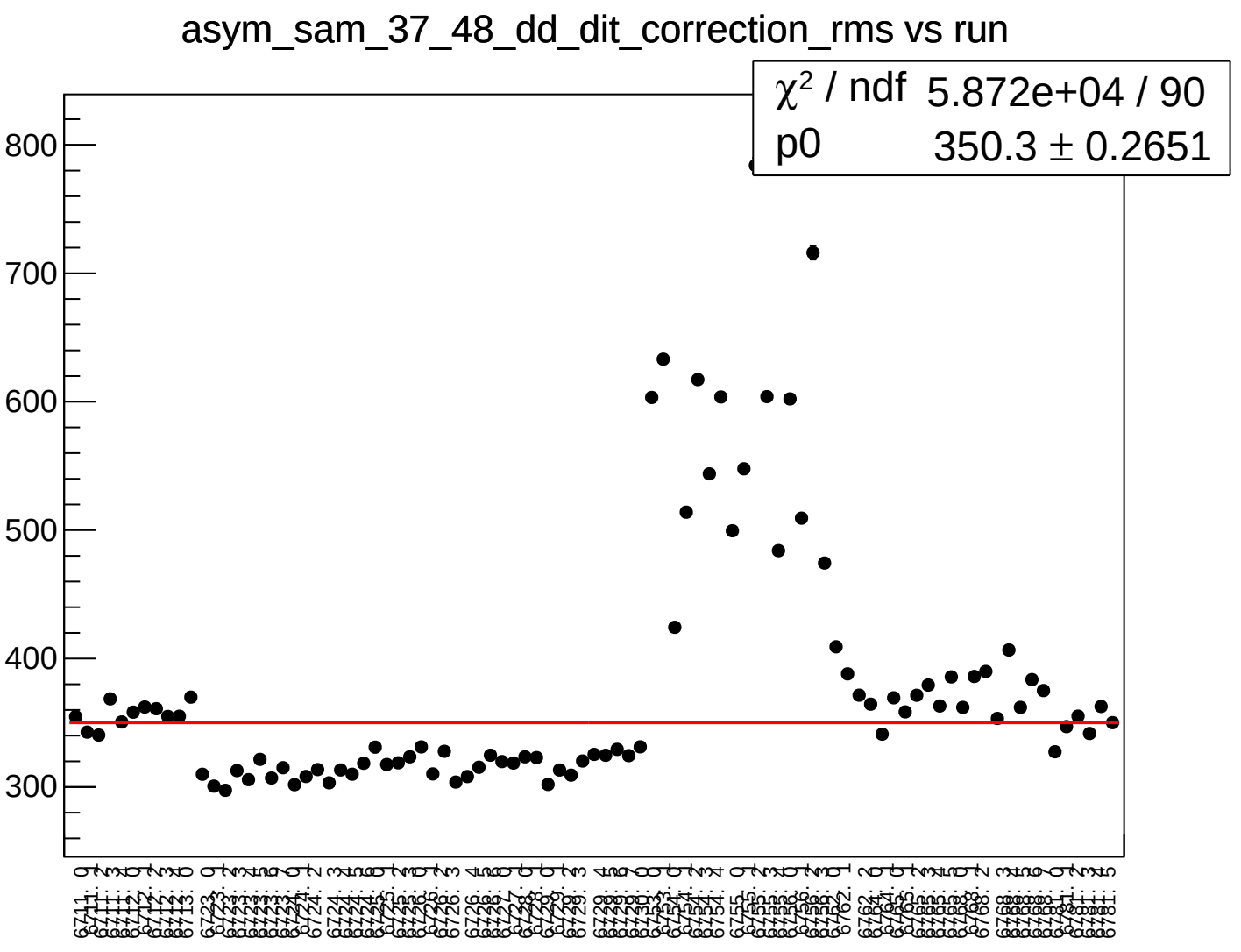

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 89.57 / 90
p0 28.15 ± 71.65
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −46.51
Std Dev 0
3
2
1
0
−1
−2
−3

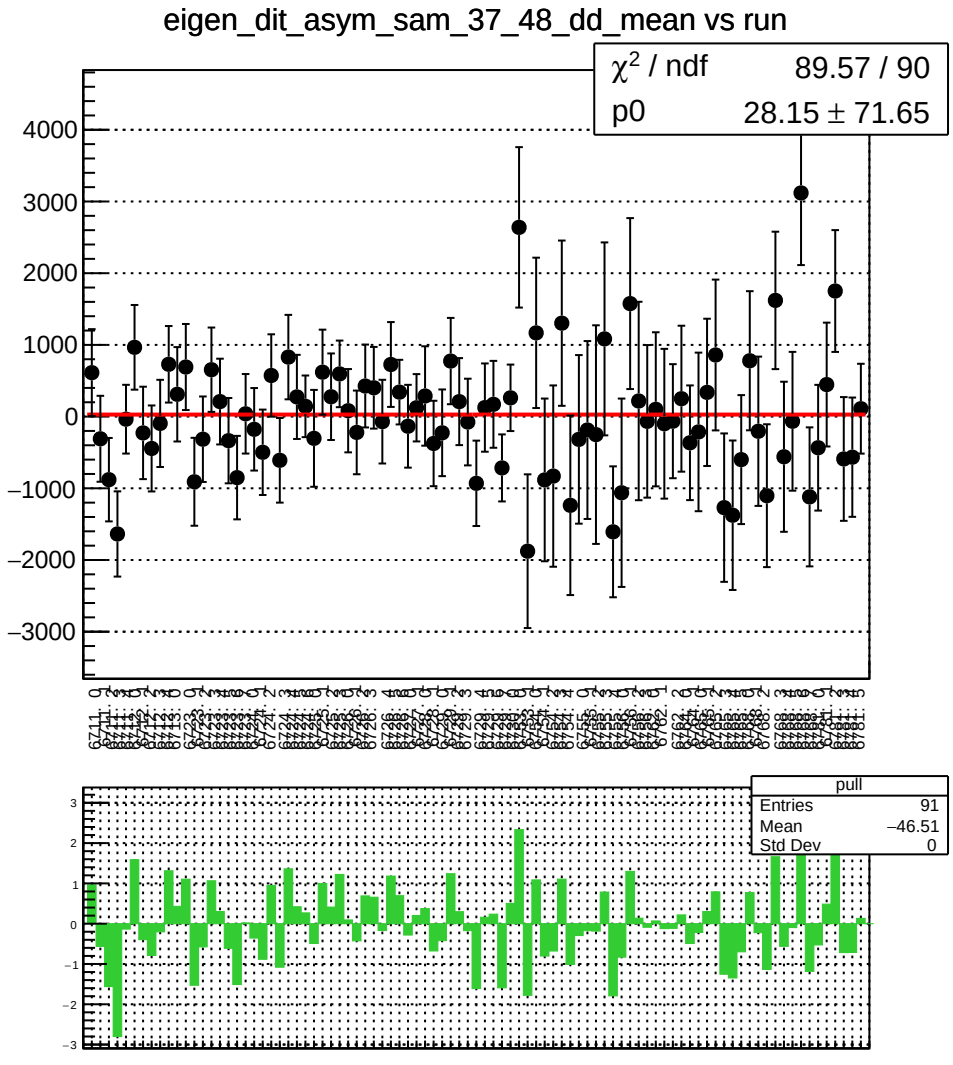

pull1D
Entries 91
Mean −0.009288
Std Dev 0.992
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

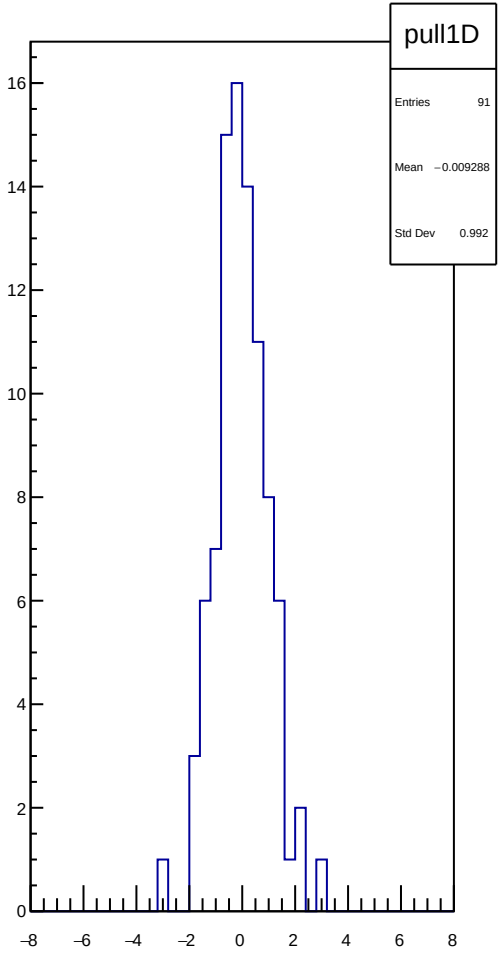

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.311e+05 / 90
p0 65.54 ± 0.05067
140
120
100
80
60

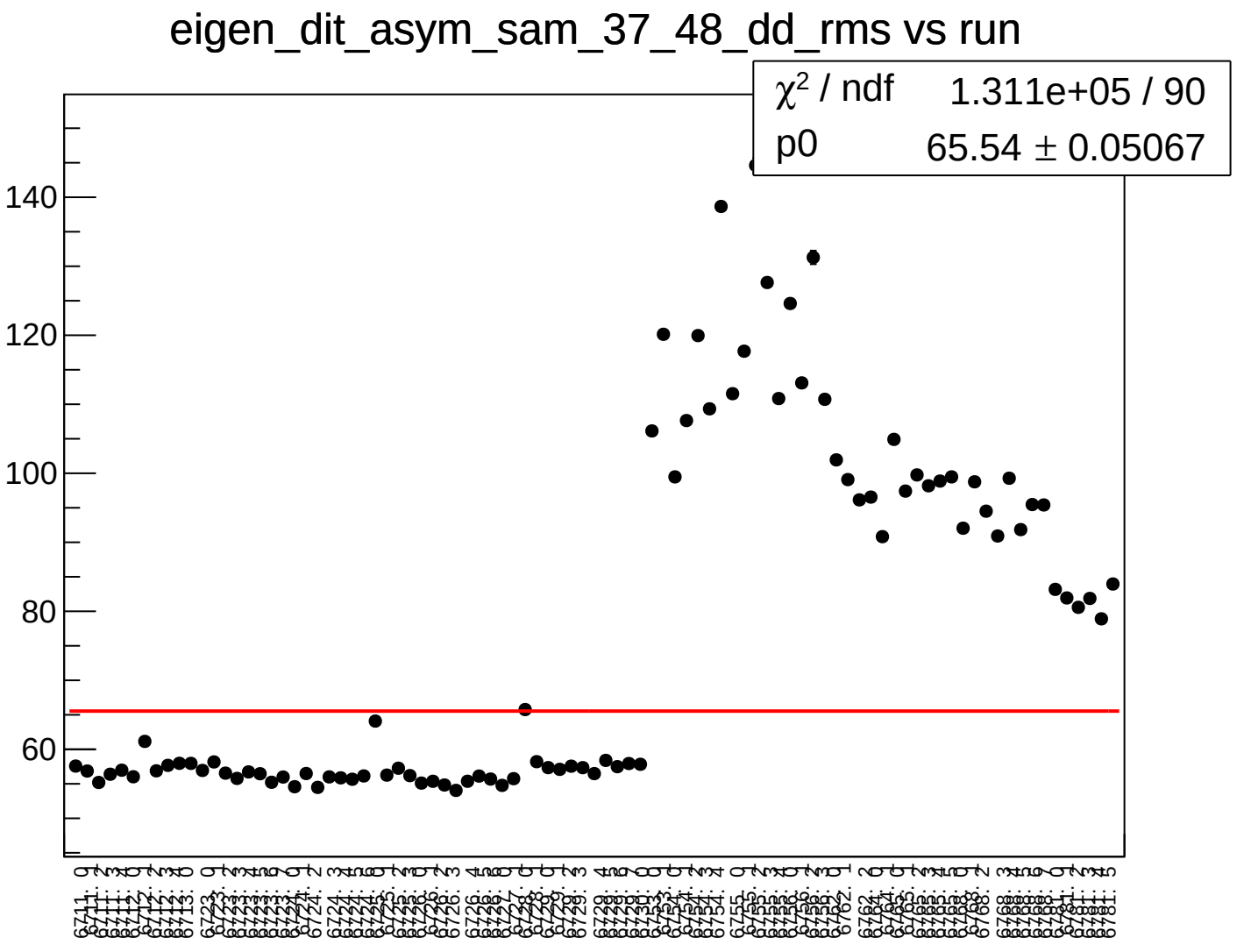

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 94.92 / 90
p0 325.3 ± 374.9
pull
Entries 91
Mean −5976
Std Dev 0

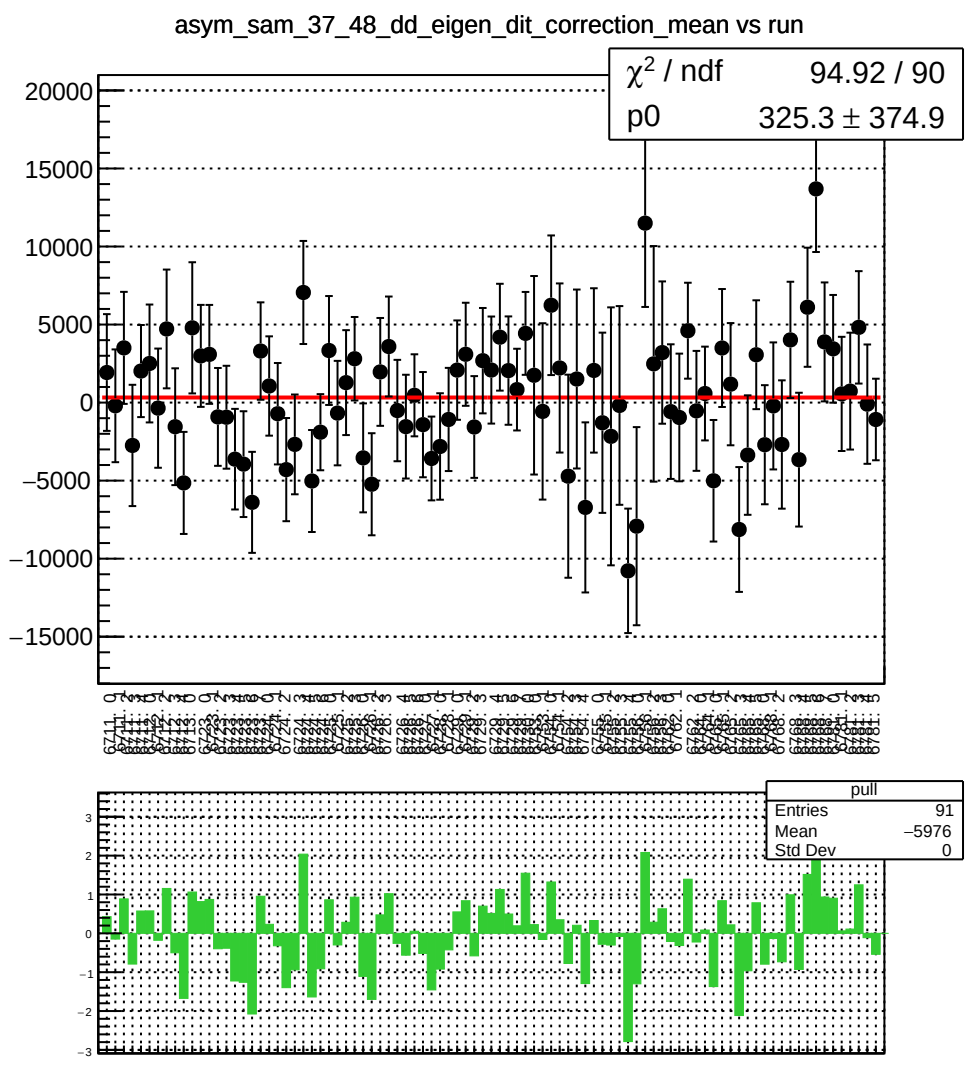

pull1D
Entries 91
Mean −0.0004726
Std Dev 1.021

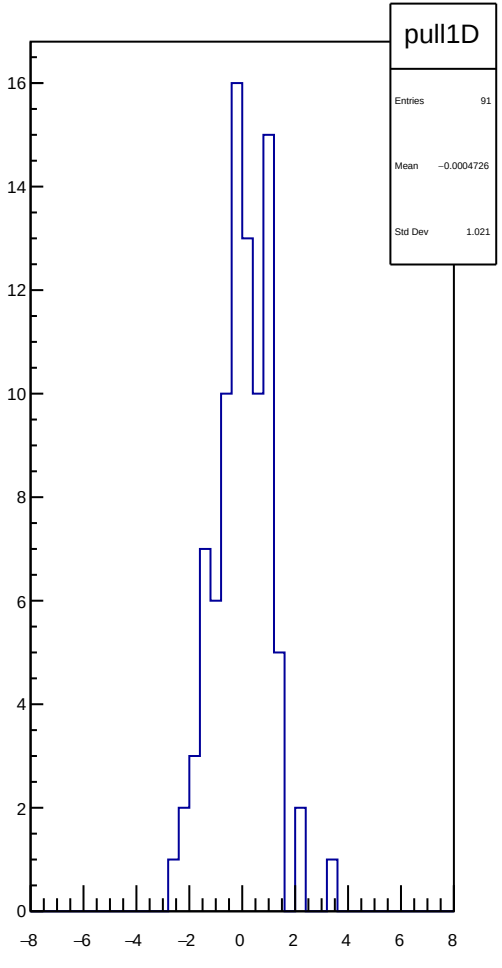

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 5.872e+04 / 90
p0 350.3 ± 0.2651
800
700
600
500
400
300

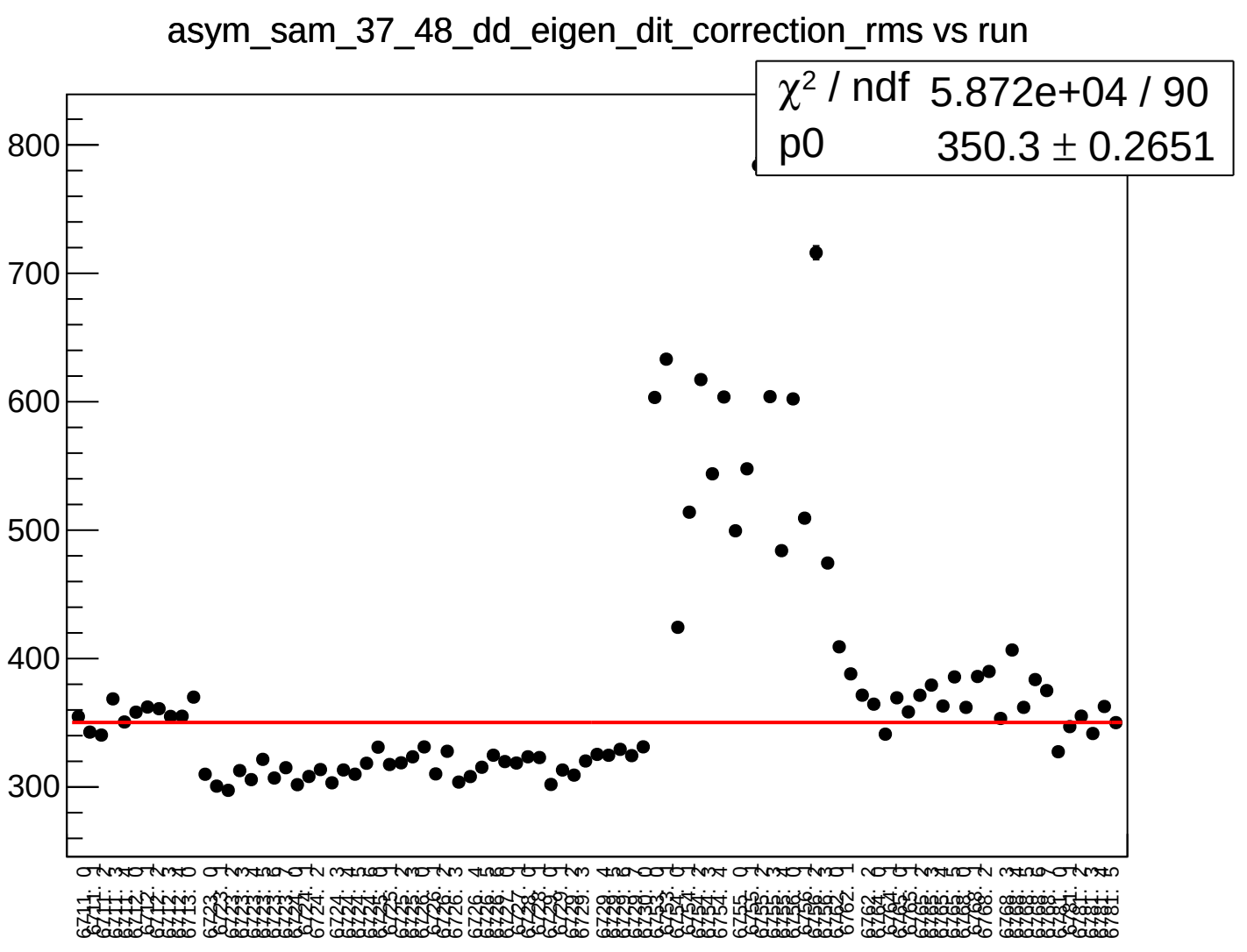

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 89.57 / 90
p0 28.15 ± 71.65
pull
Entries 91
Mean −46.51
Std Dev 0

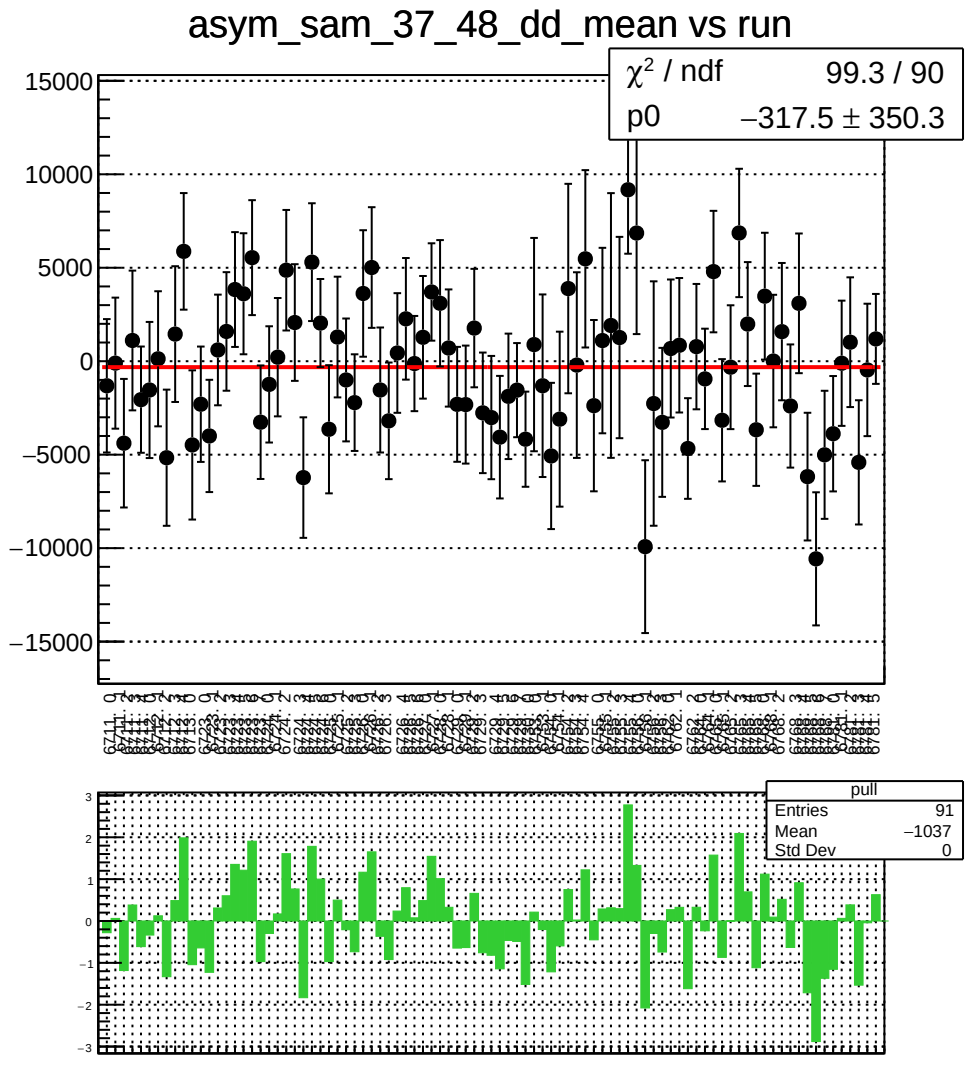

pull1D
Entries 91
Mean −0.009288
Std Dev 0.992

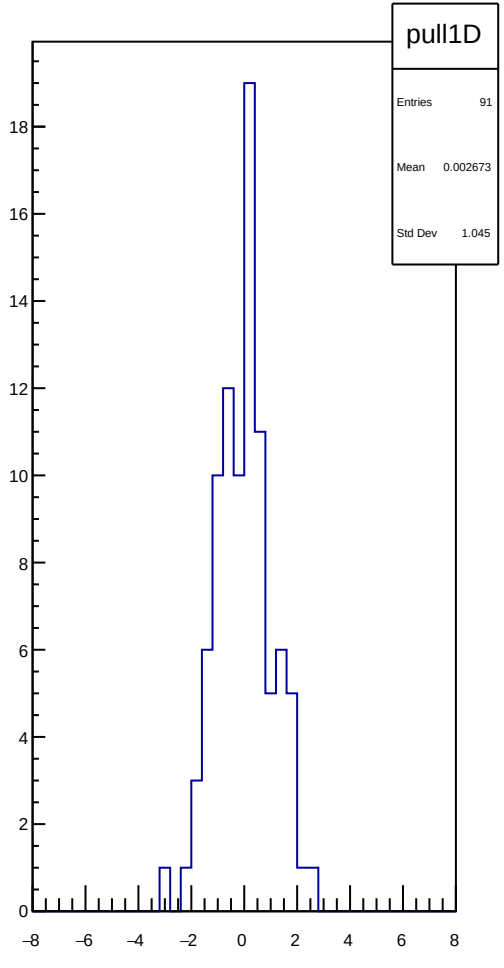

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.311e+05 / 90
p0 65.54 ± 0.05067
140
120
100
80
60

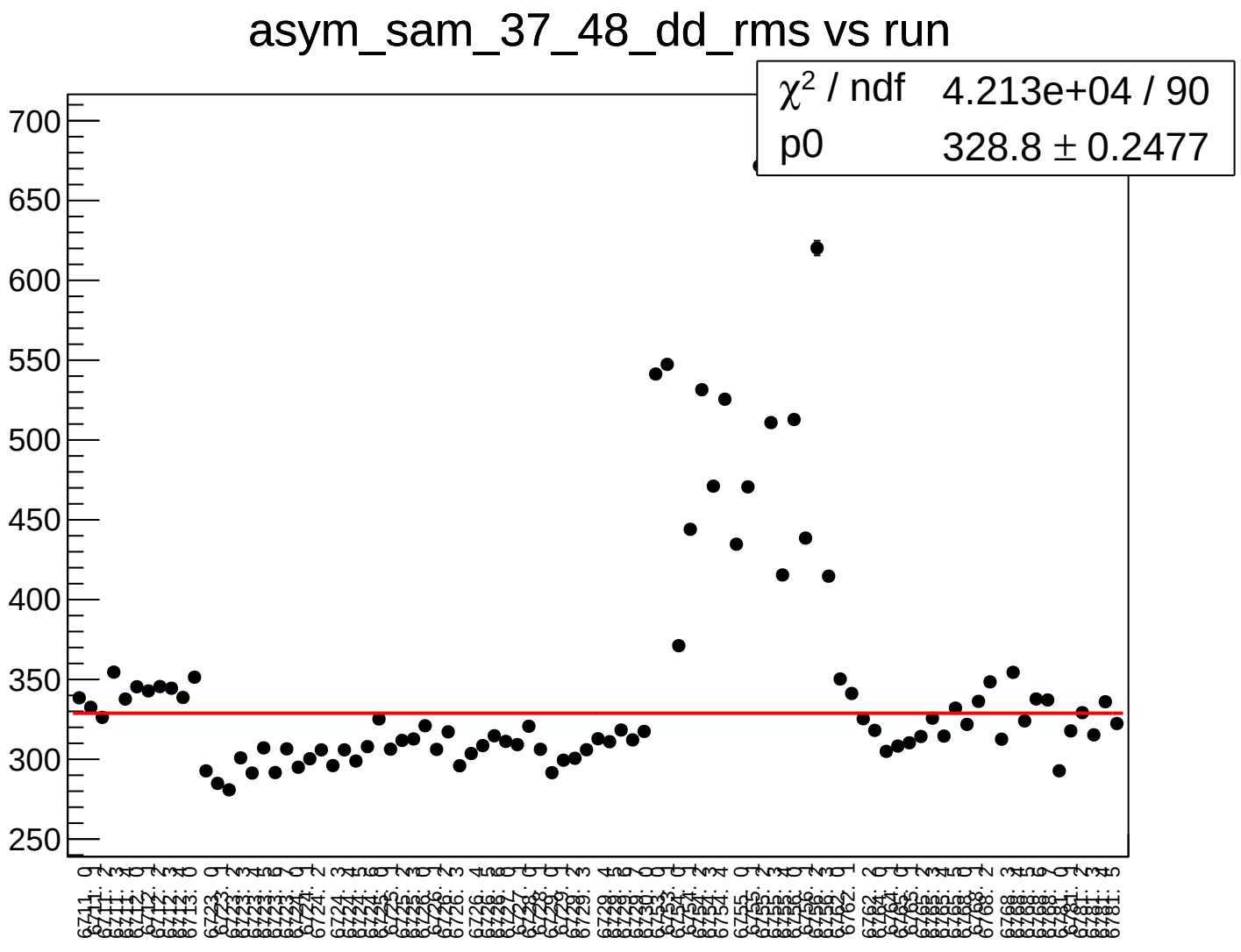

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.92 / 90
p0 325.3 ± 374.9
pull
Entries 91
Mean −5976
Std Dev 0

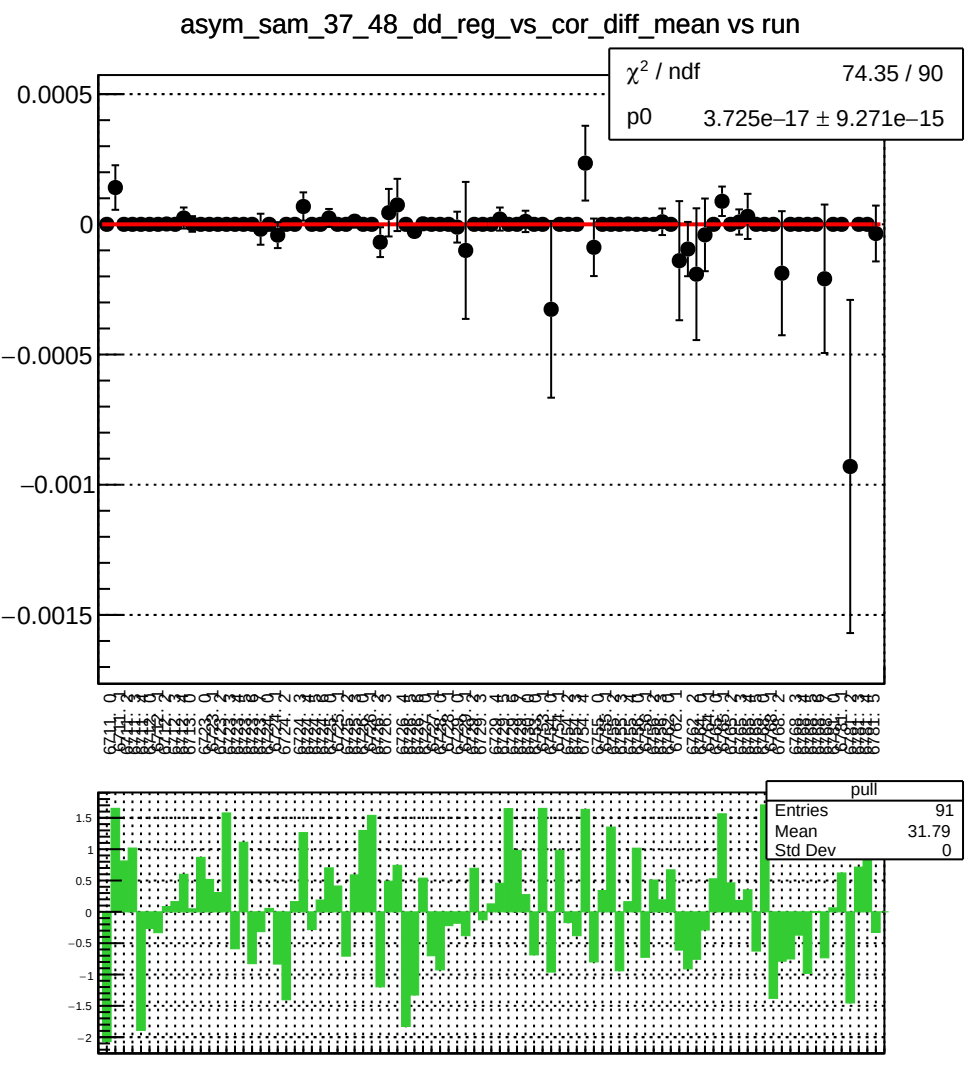

pull1D
Entries 91
Mean −0.0004726
Std Dev 1.021

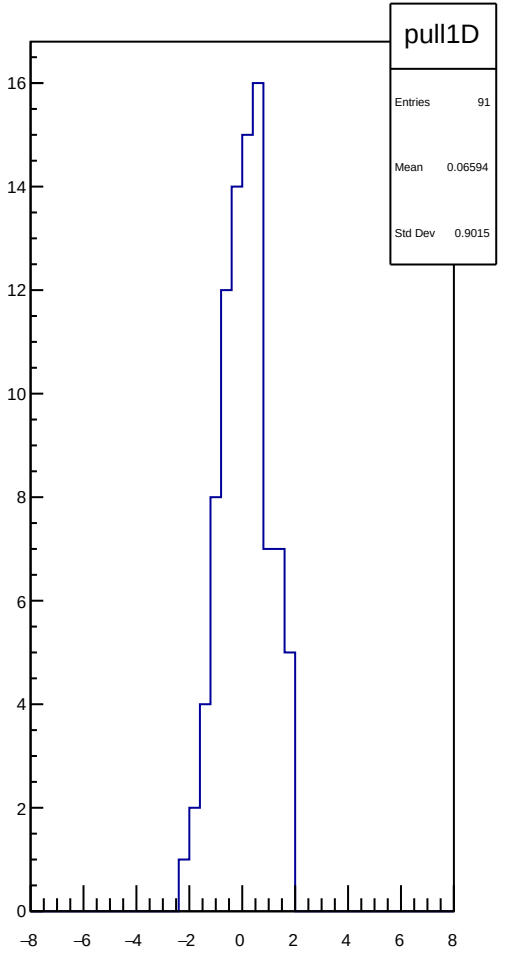

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.872e+04 / 90
p0 350.3 ± 0.2651
800
700
600
500
400
300

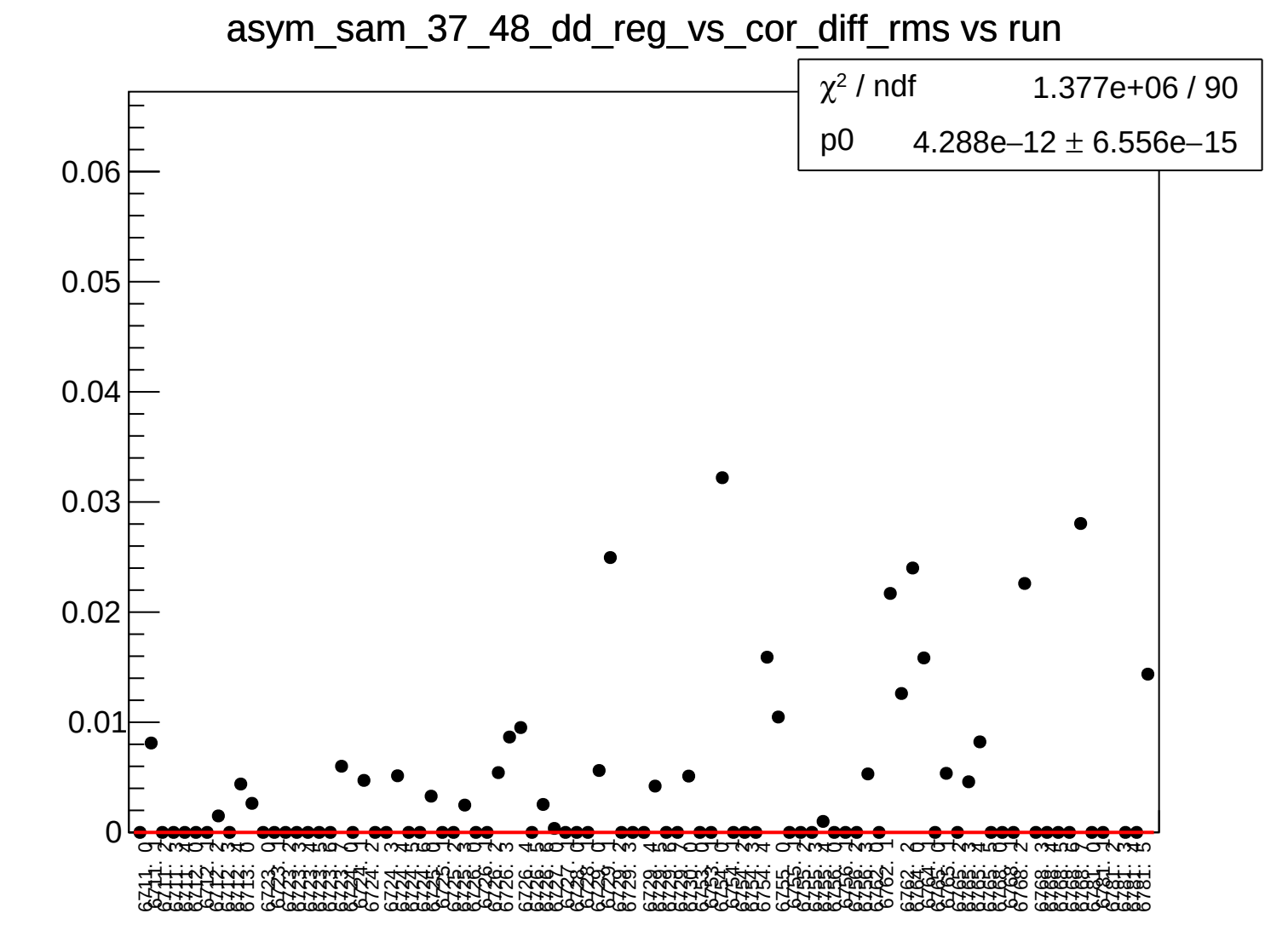

asym_sam_37_48_dd_mean vs run
χ² / ndf 99.3 / 90
p0 −317.5 ± 350.3
pull
Entries 91
Mean −1037
Std Dev 0

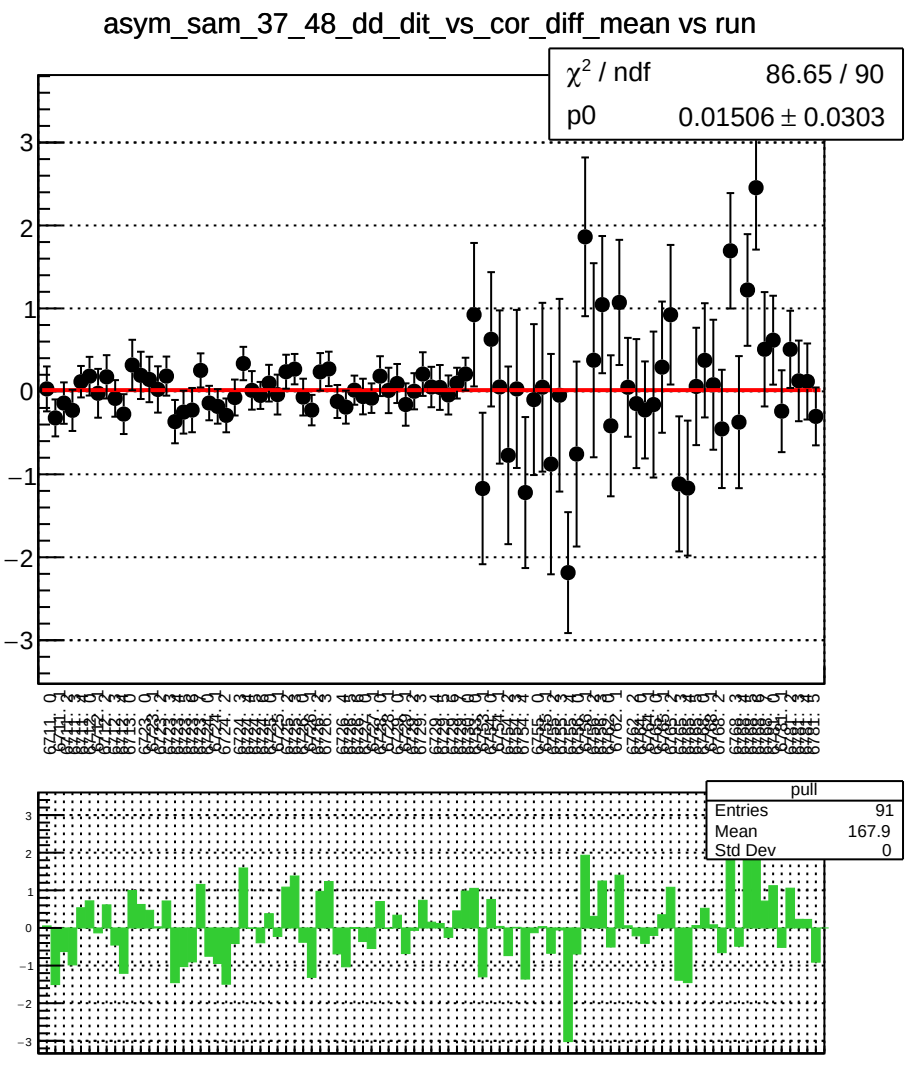

pull1D
Entries 91
Mean 0.002673
Std Dev 1.045

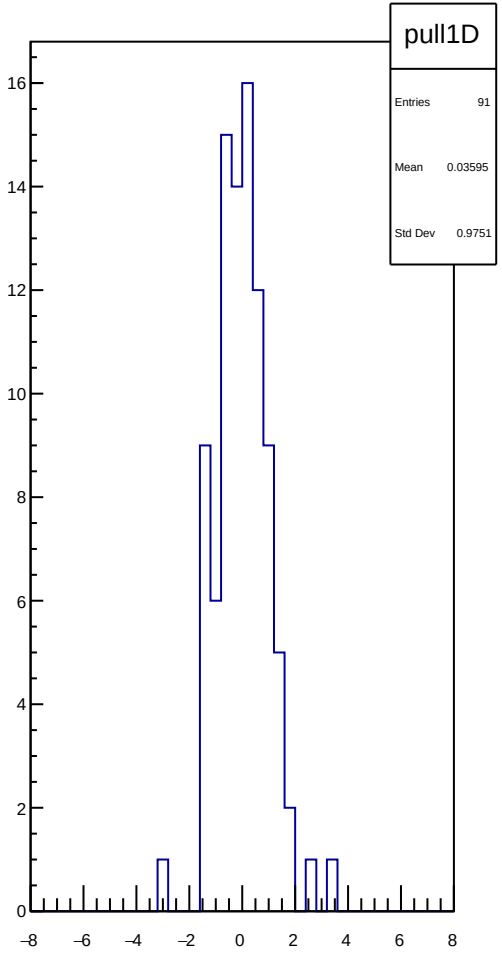

asym_sam_37_48_dd_rms vs run
χ² / ndf 4.213e+04 / 90
p0 328.8 ± 0.2477
700
650
600
550
500
450
400
350
300
250

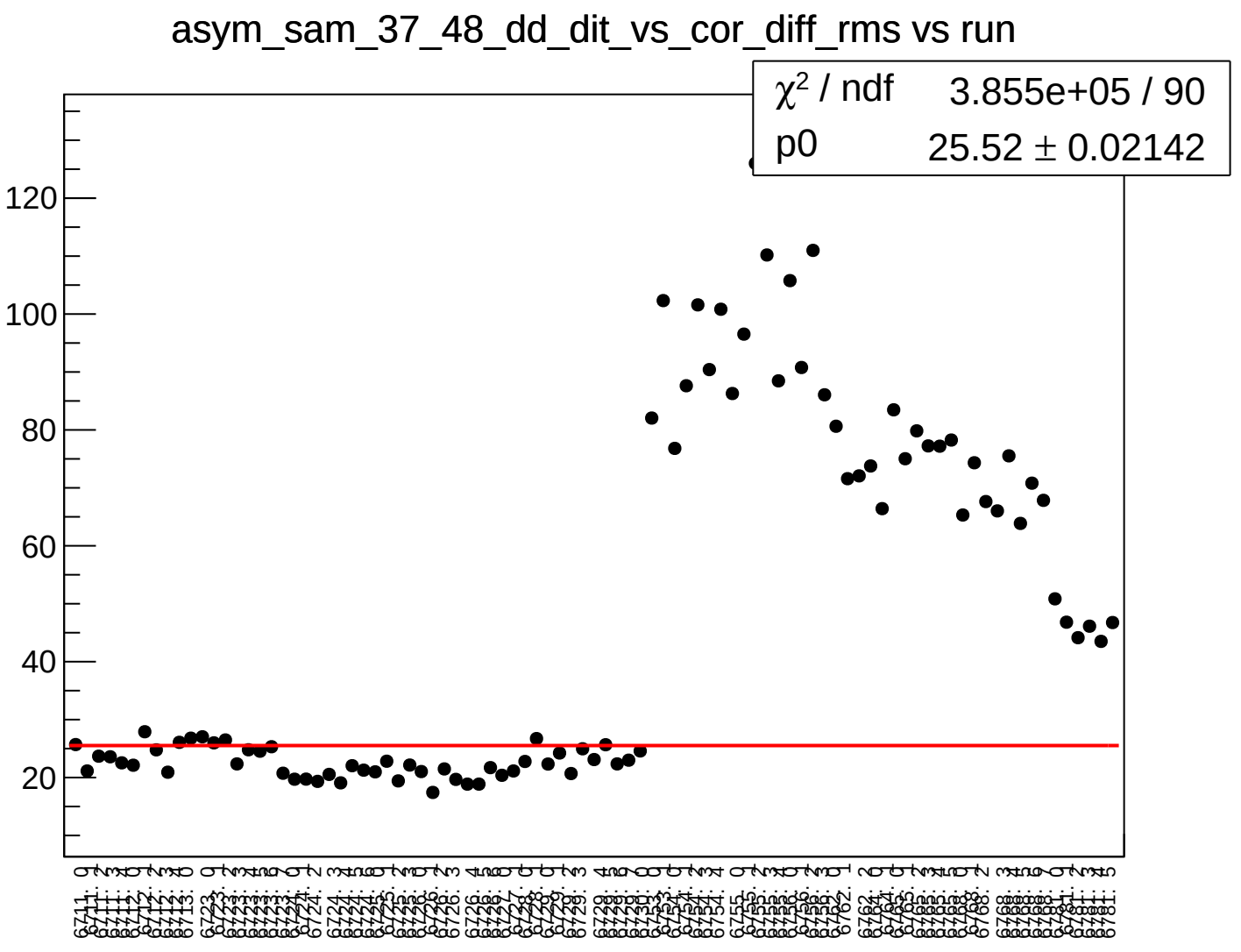

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.35 / 90
p0 3.725e−17 ± 9.271e−15
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 91
Mean 31.79
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 91
Mean 0.06594
Std Dev 0.9015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

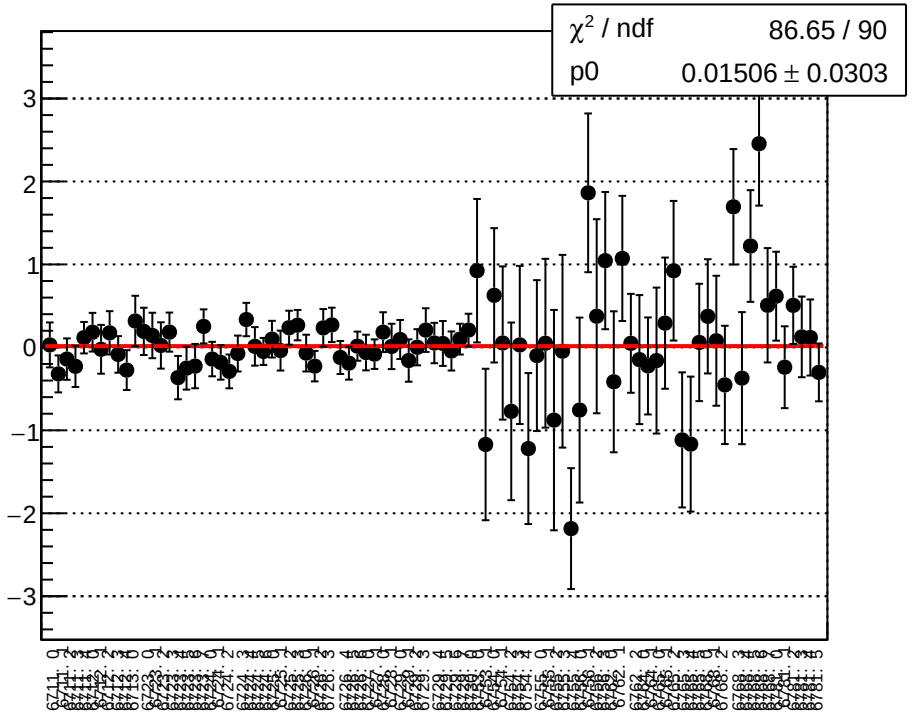

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.377e+06 / 90
p0 4.288e−12 ± 6.556e−15
0.06
0.05
0.04
0.03
0.02
0.01
0

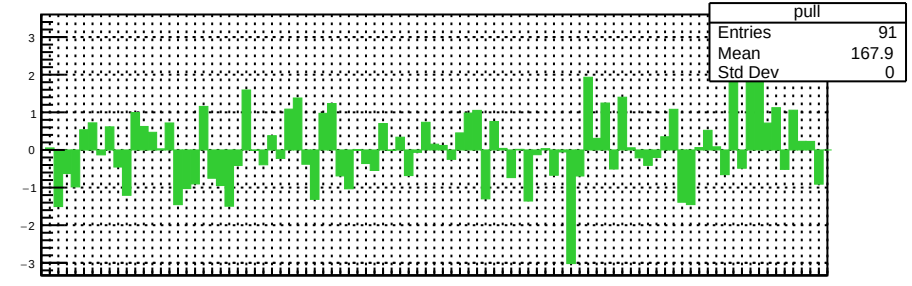

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.65 / 90
p0 0.01506 ± 0.0303
pull
Entries 91
Mean 167.9
Std Dev 0

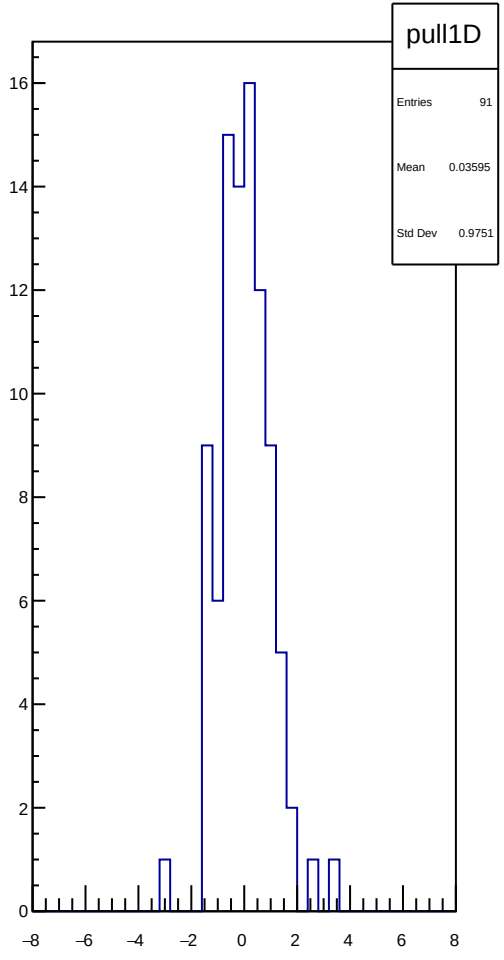

pull1D
Entries 91
Mean 0.03595
Std Dev 0.9751

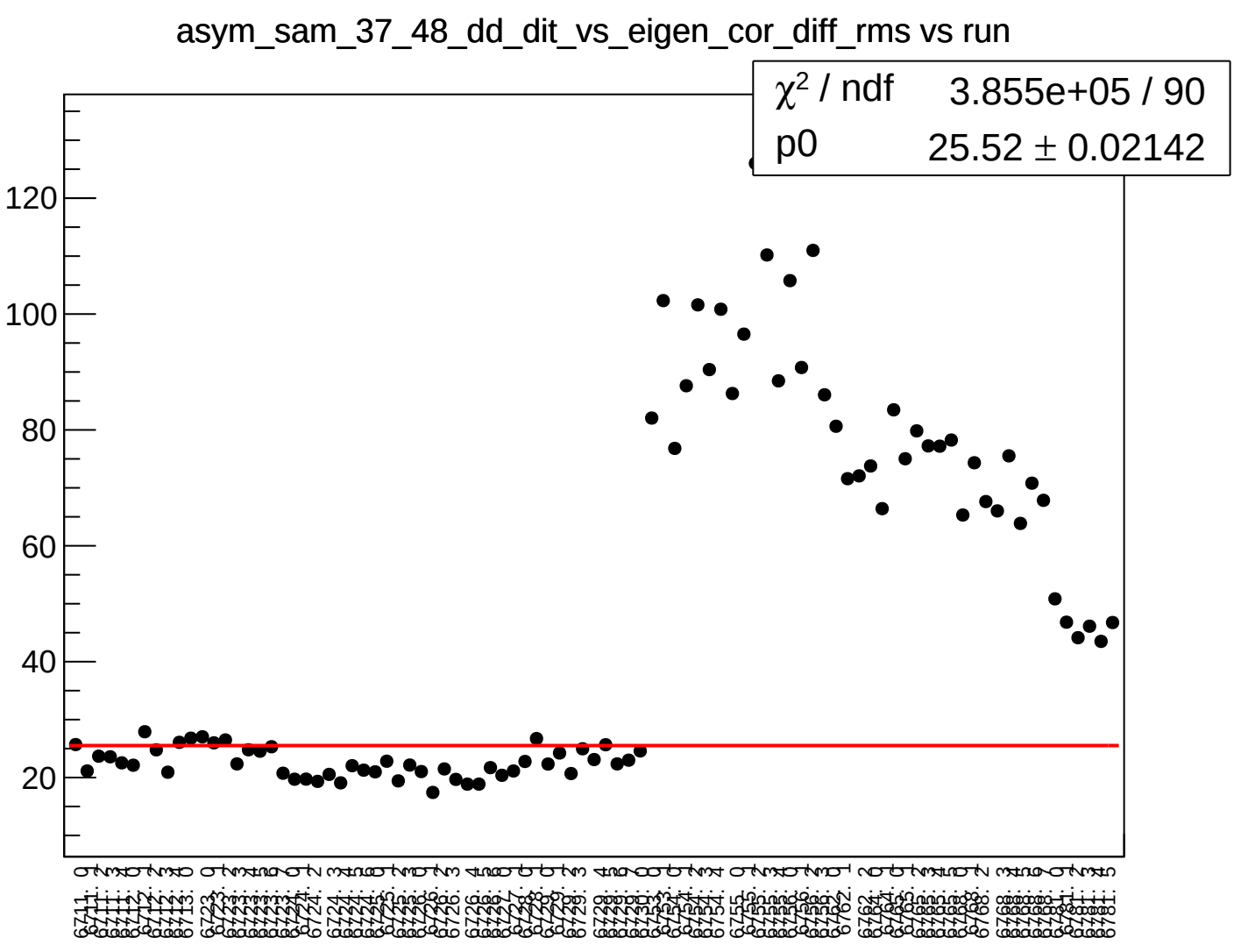

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.855e+05 / 90
p0 25.52 ± 0.02142
120
100
80
60
40
20

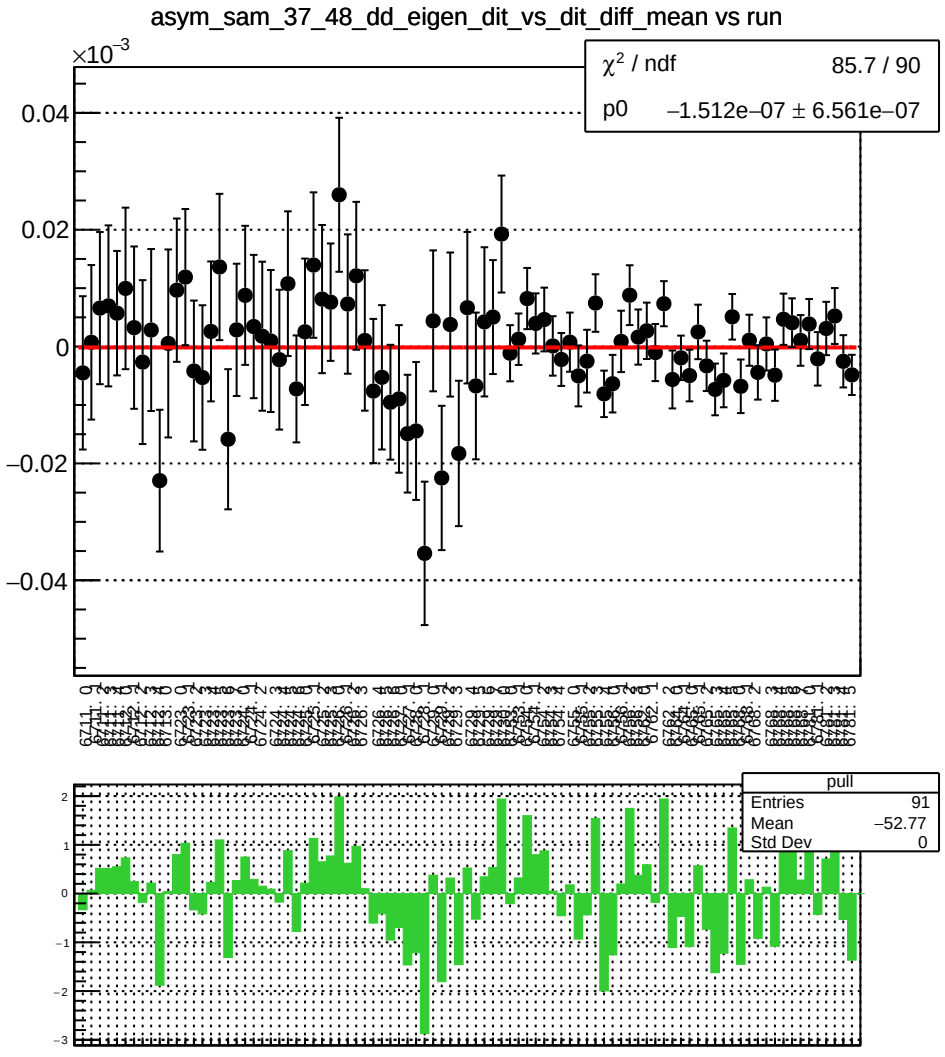
asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run

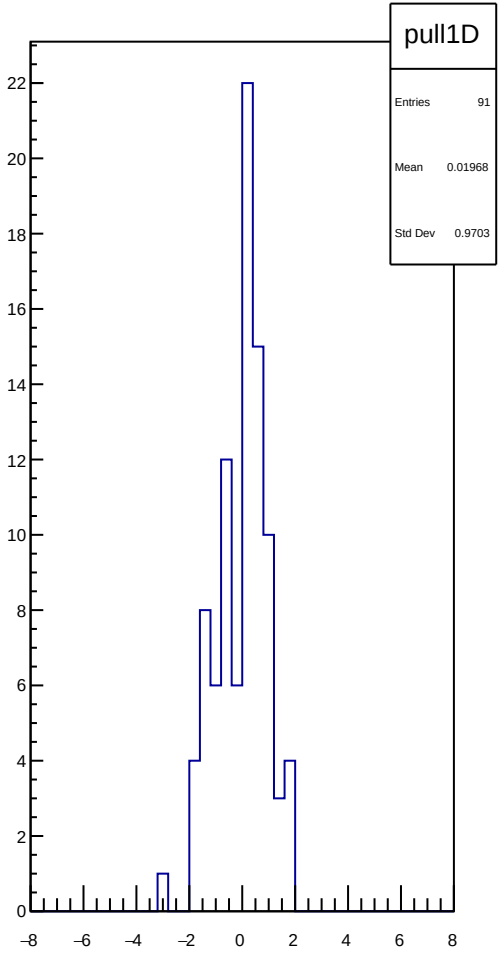


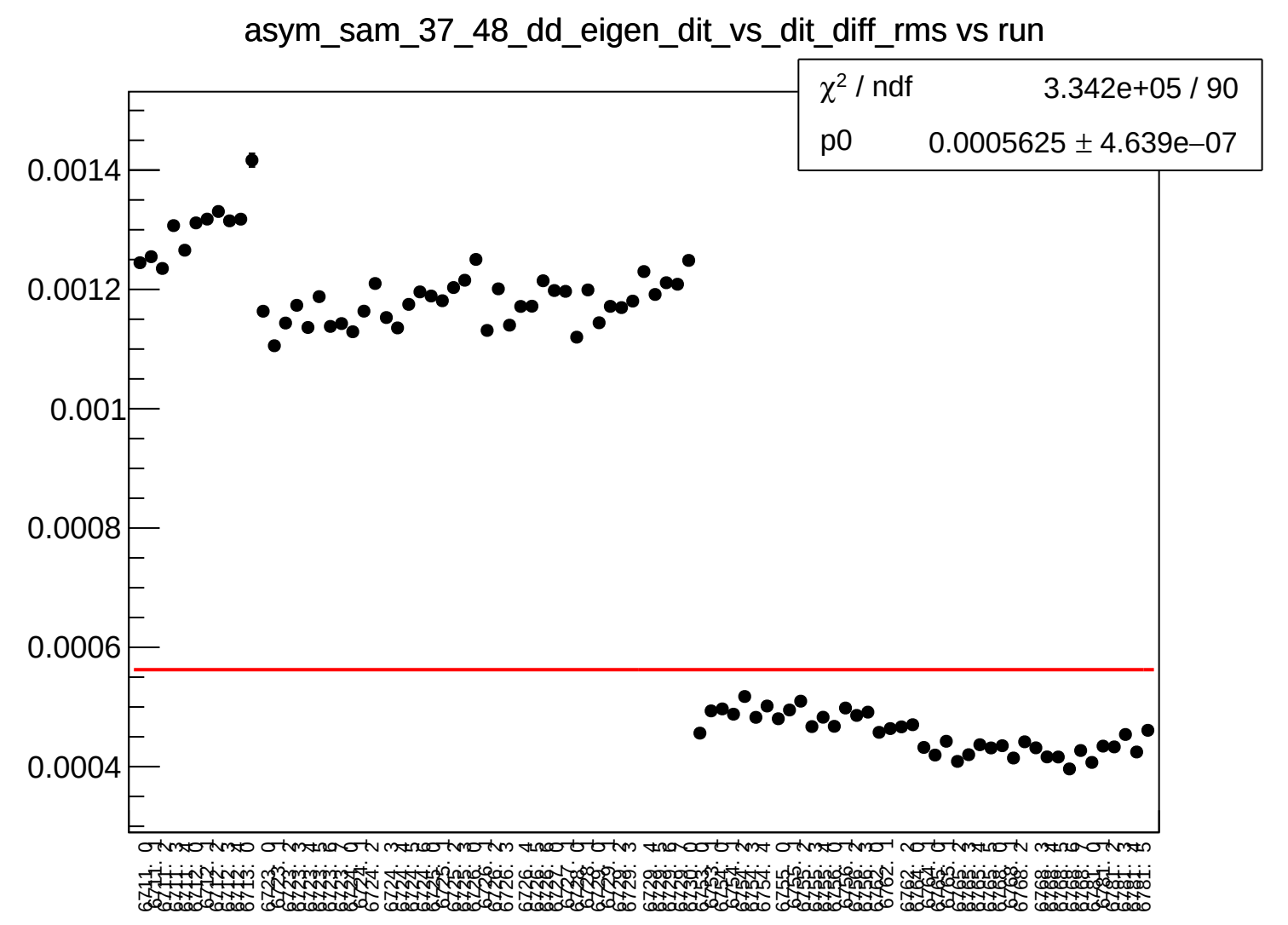


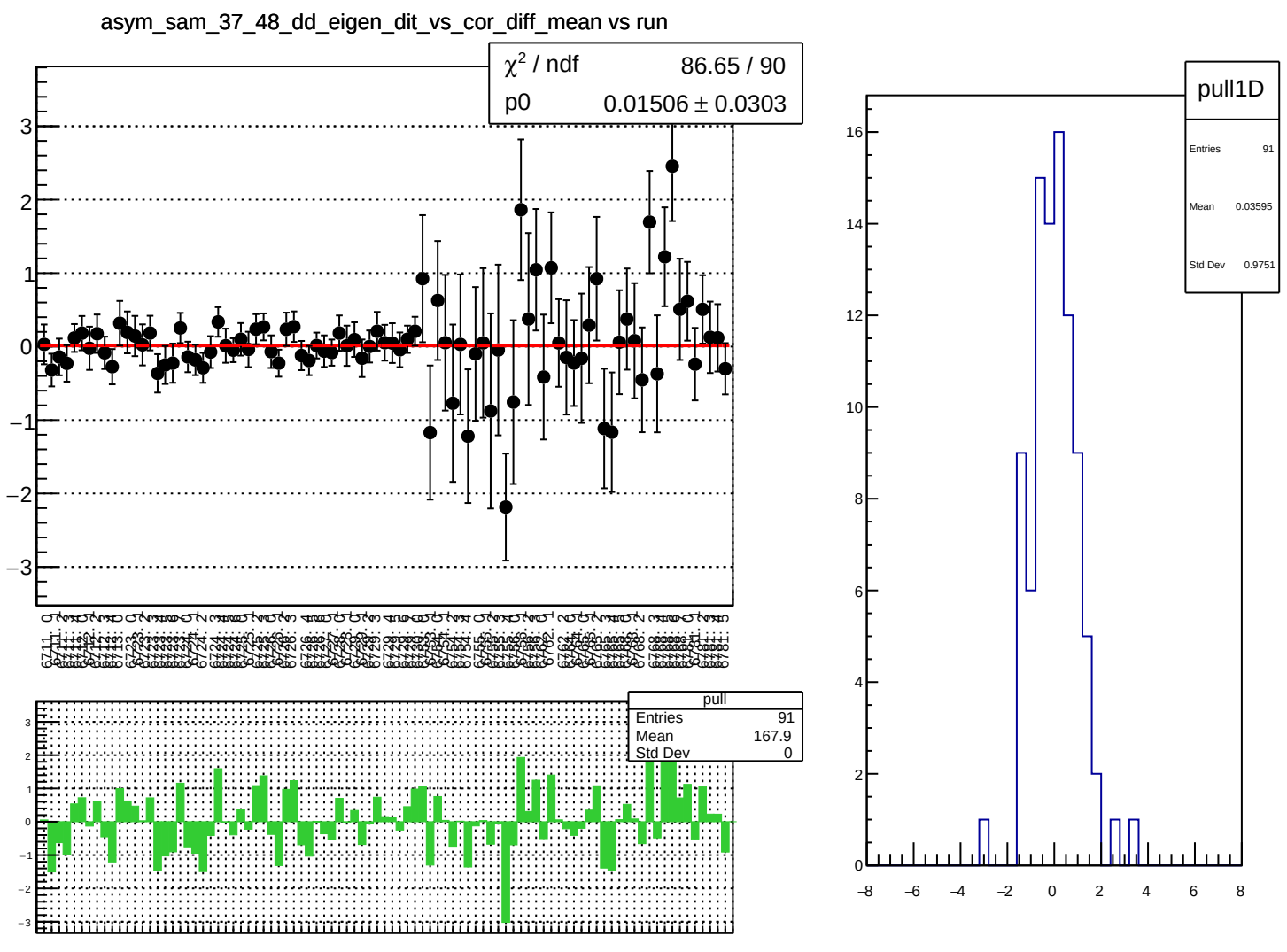


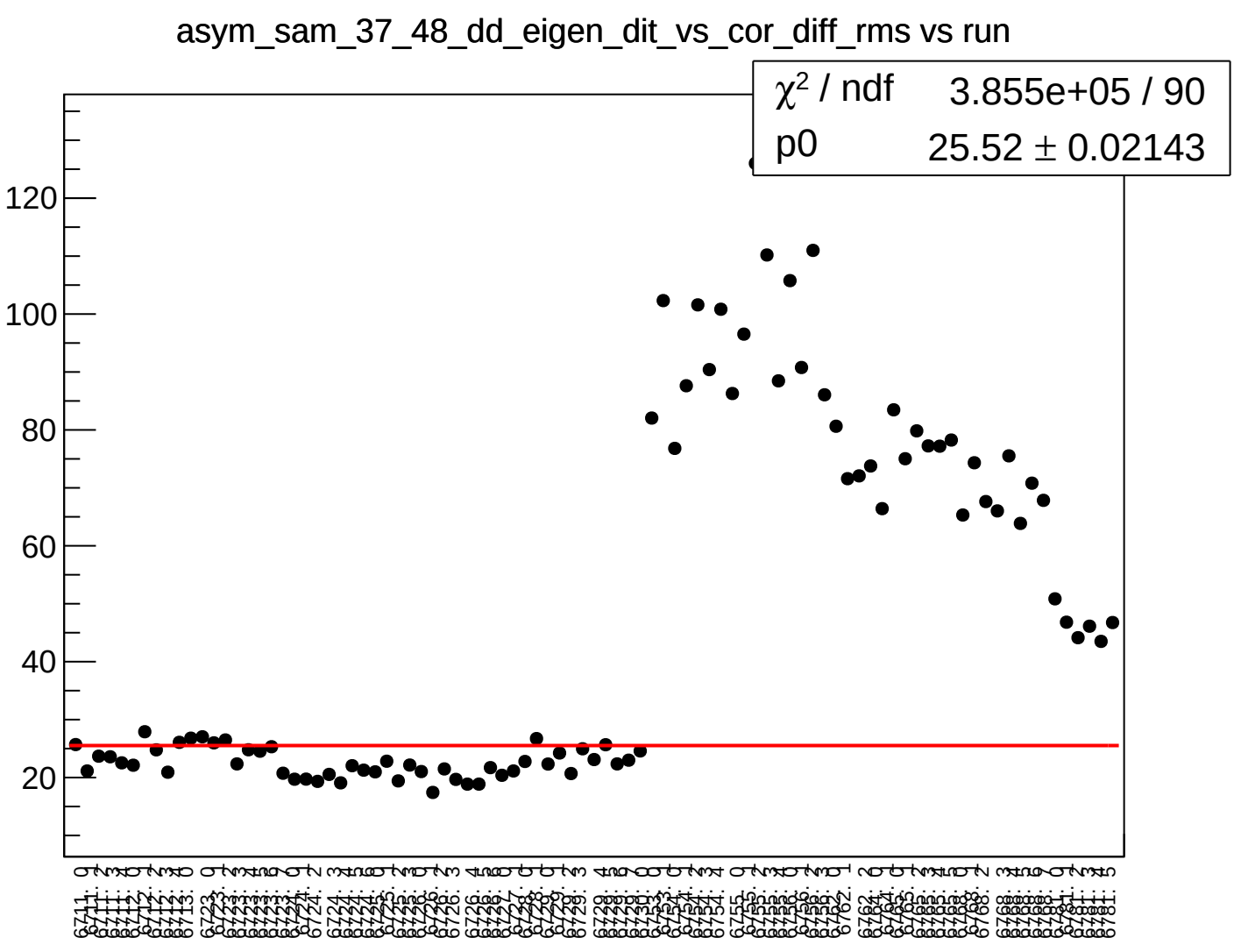

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.855e+05 / 90
p0 25.52 ± 0.02142
120
100
80
60
40
20

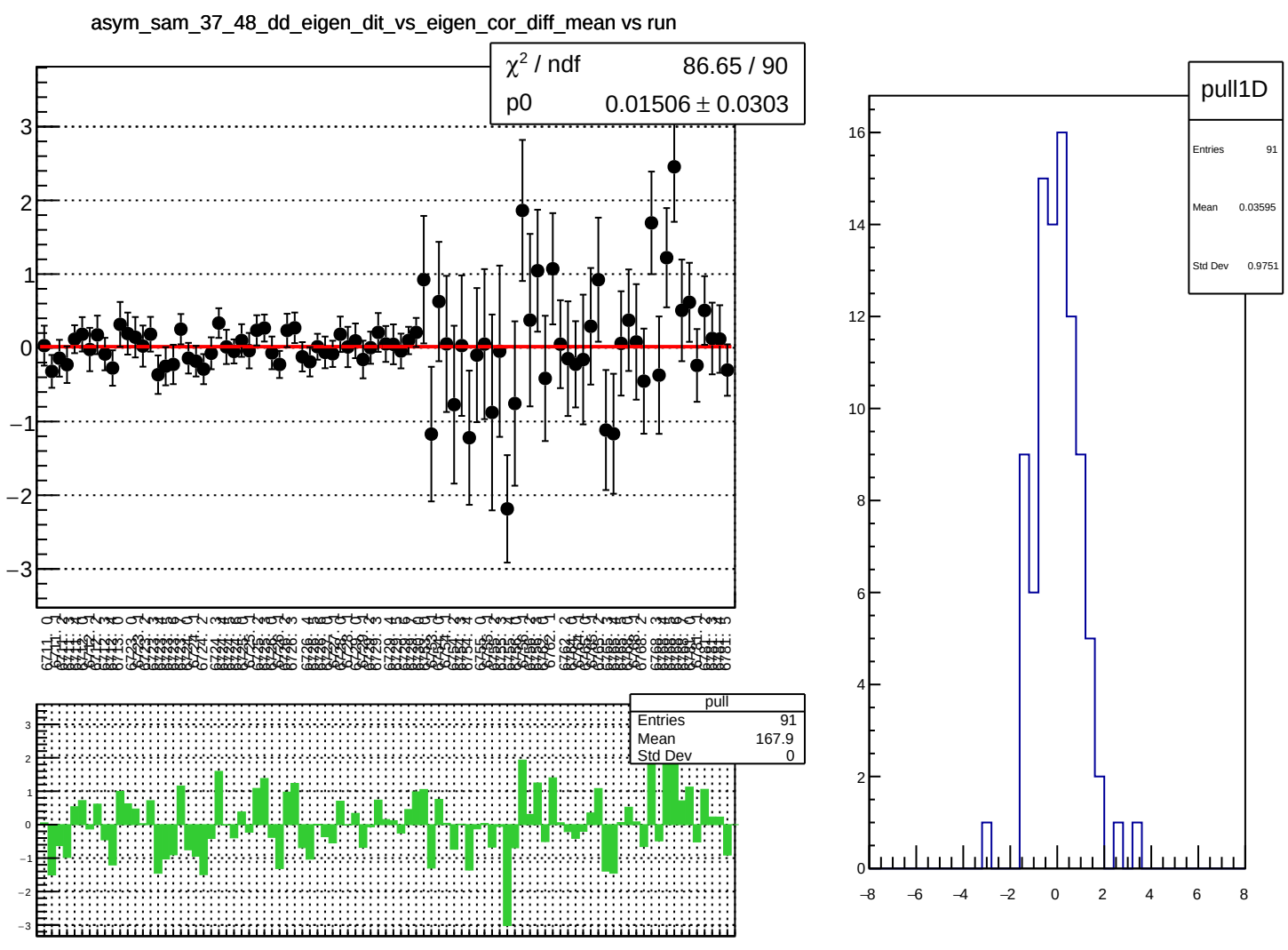

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.7 / 90
p0 −1.512e−07 ± 6.561e−07
0.04
0.02
0
−0.02
−0.04
pull
Entries 91
Mean −52.77
Std Dev 0
2
1
0
−1
−2
−3

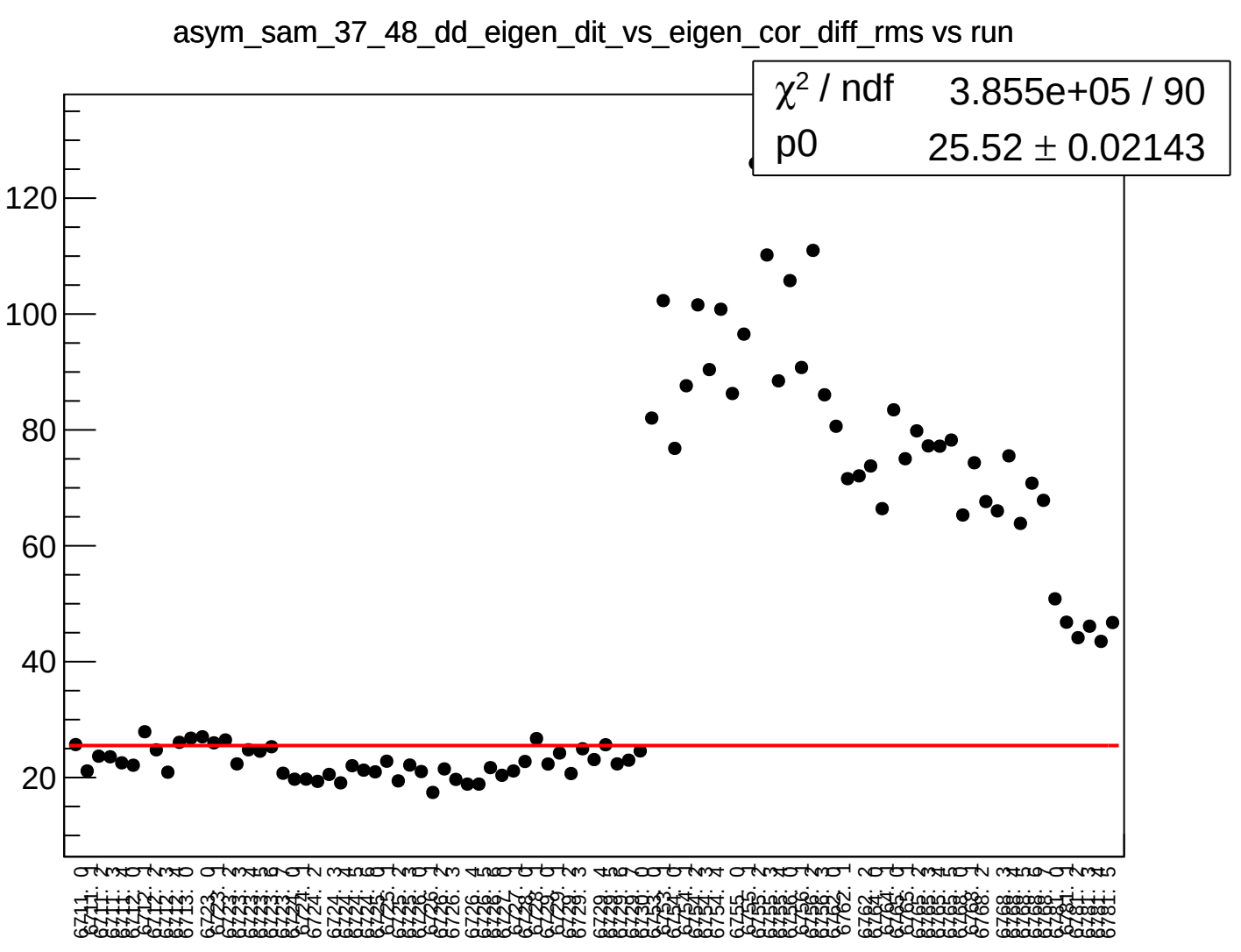

pull1D
Entries 91
Mean 0.01968
Std Dev 0.9703
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

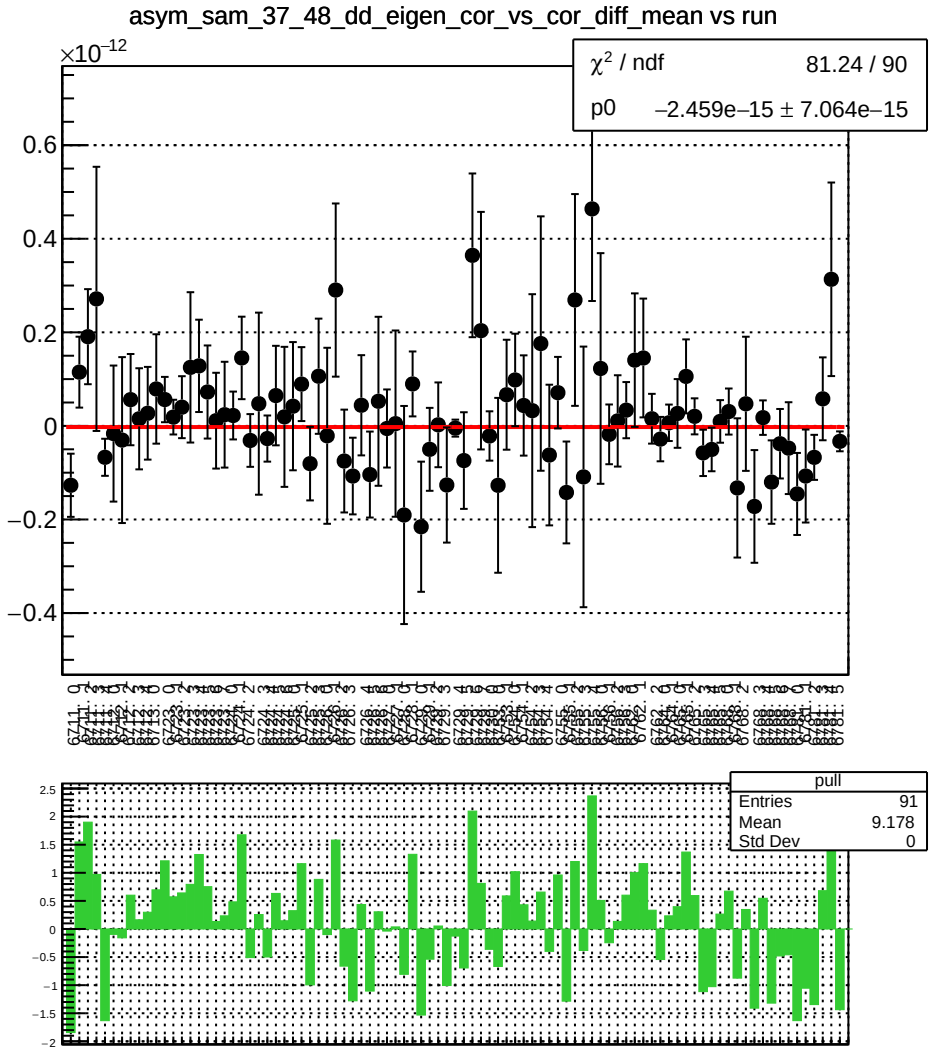

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.342e+05 / 90
p0 0.0005625 ± 4.639e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

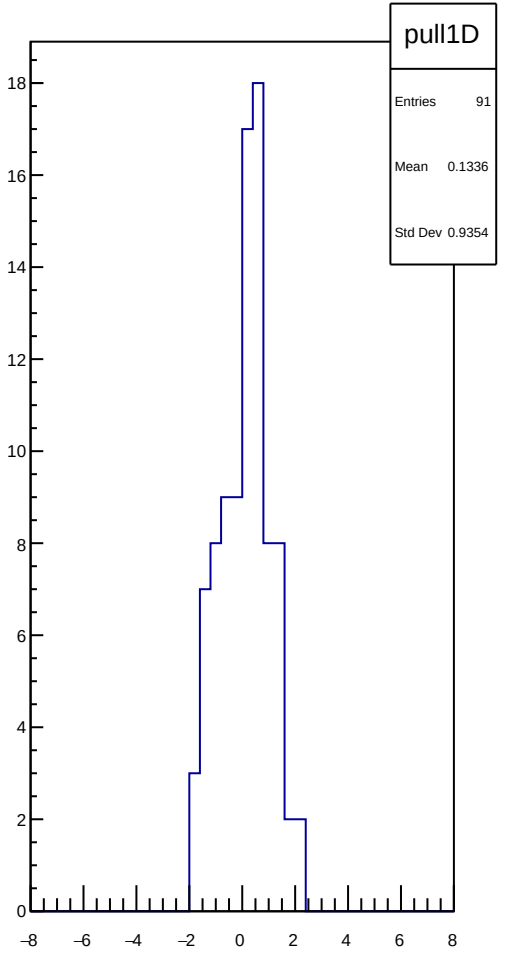

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.65 / 90
p0 0.01506 ± 0.0303
pull
Entries 91
Mean 167.9
Std Dev 0
pull1D
Entries 91
Mean 0.03595
Std Dev 0.9751

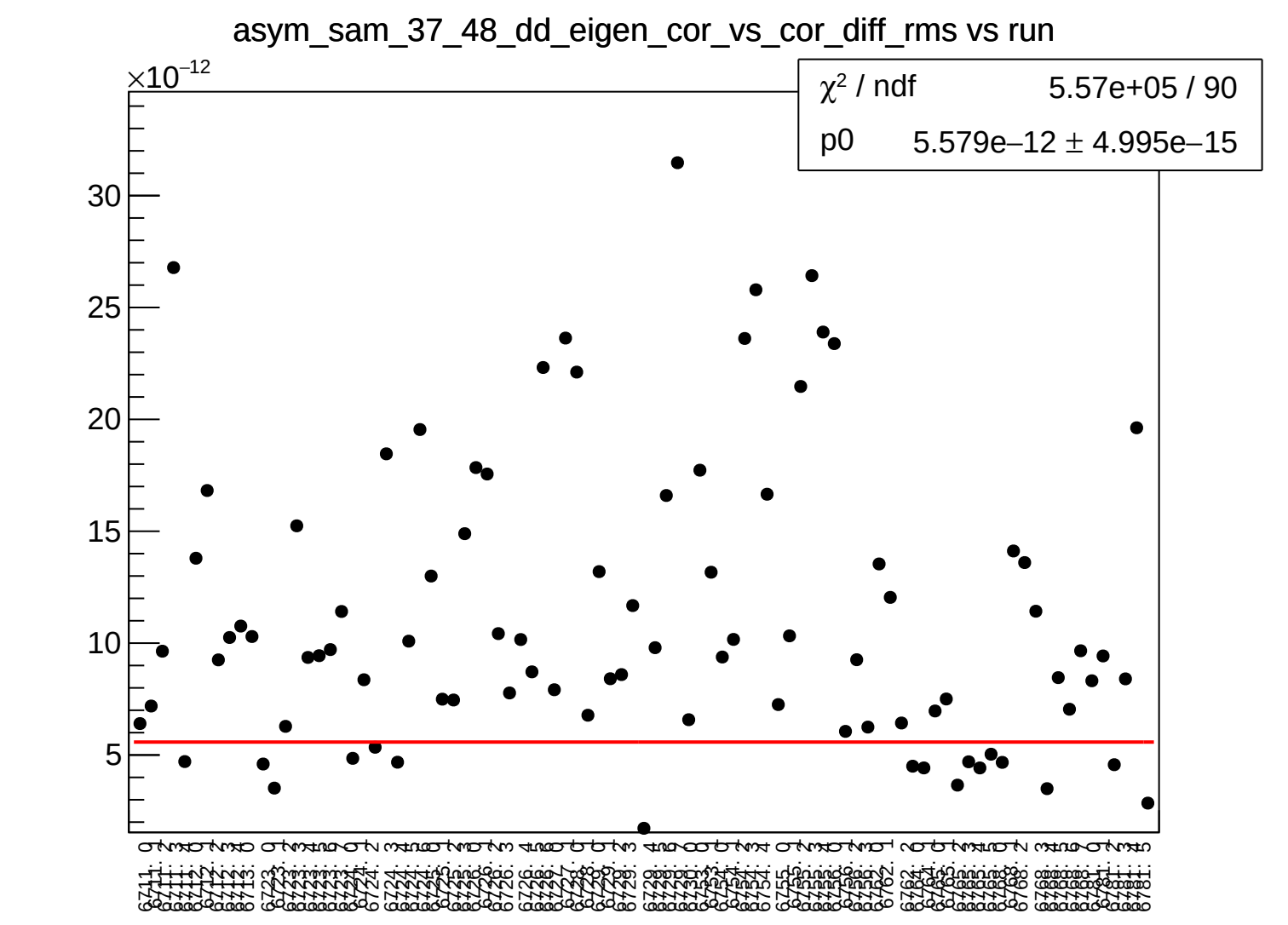

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.855e+05 / 90
p0 25.52 ± 0.02143
120
100
80
60
40
20

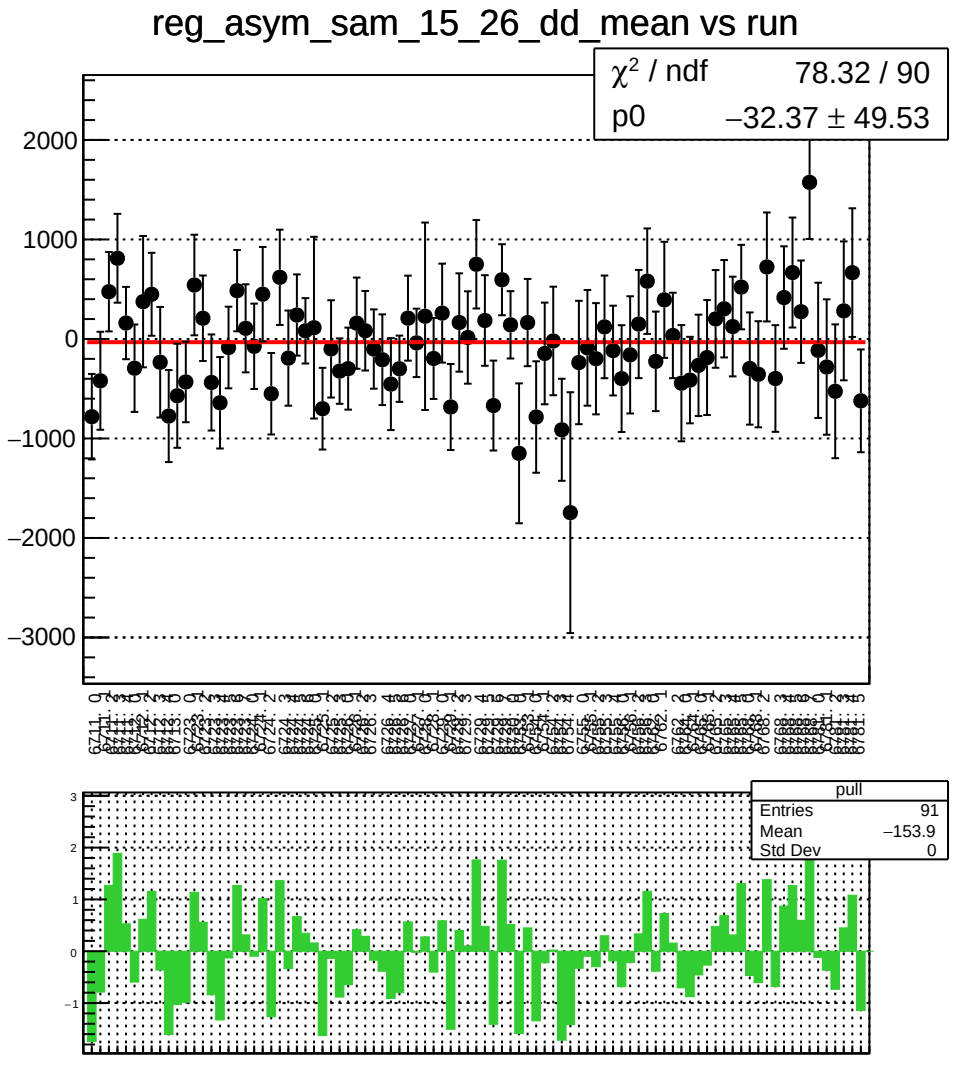

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.65 / 90
p0 0.01506 ± 0.0303
pull
Entries 91
Mean 167.9
Std Dev 0
pull1D
Entries 91
Mean 0.03595
Std Dev 0.9751

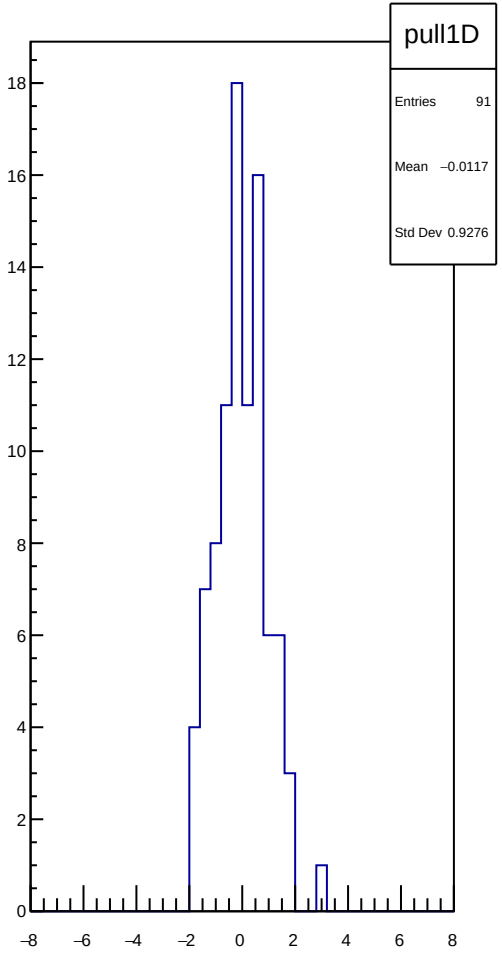

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.855e+05 / 90
p0 25.52 ± 0.02143
120
100
80
60
40
20

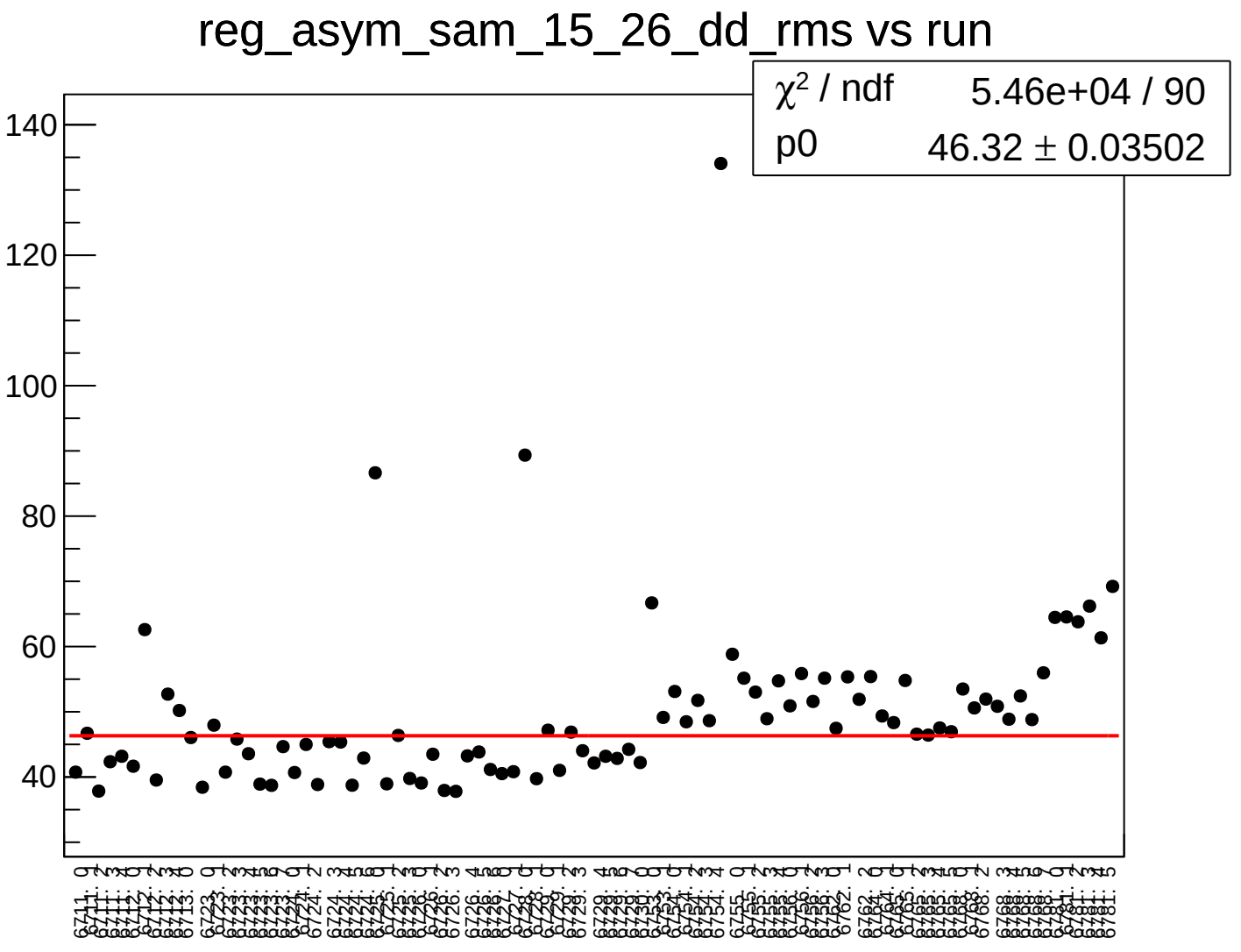

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.24 / 90
p0 −2.459e−15 ± 7.064e−15
pull
Entries 91
Mean 9.178
Std Dev 0

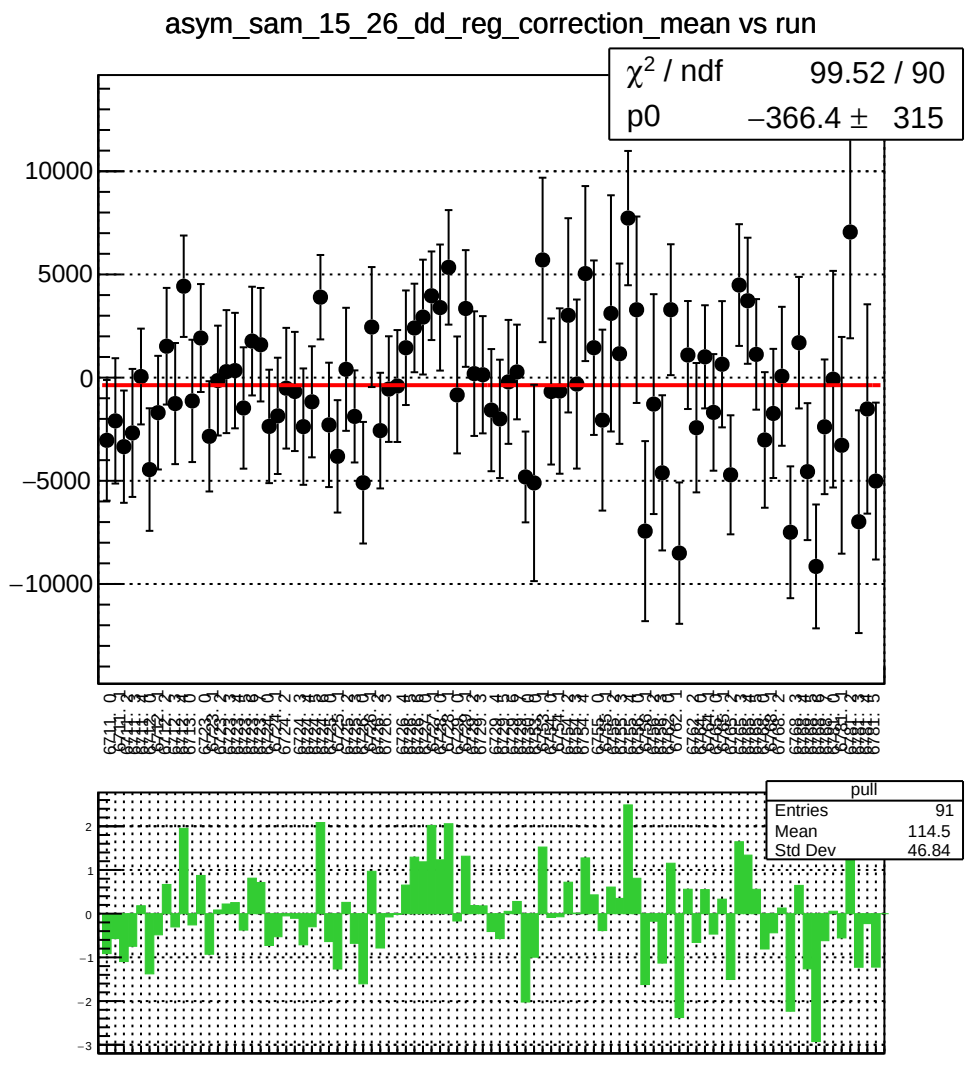

pull1D
Entries 91
Mean 0.1336
Std Dev 0.9354

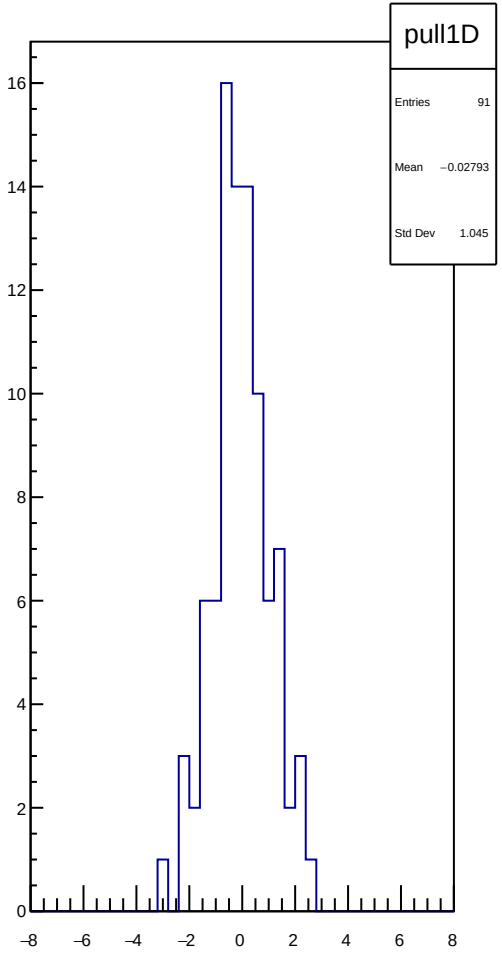

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.57e+05 / 90
p0 5.579e−12 ± 4.995e−15
30
25
20
15
10
5

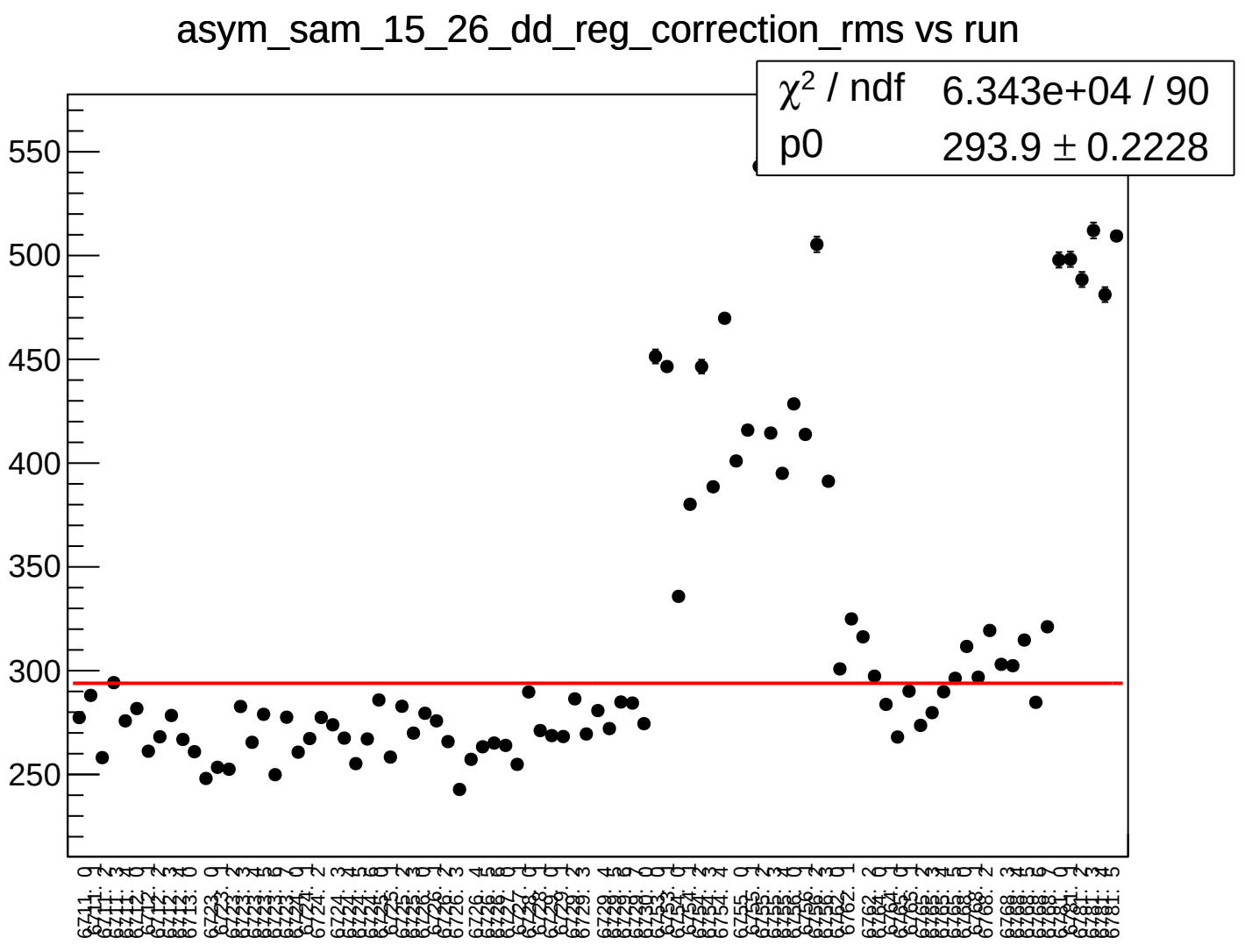

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 78.32 / 90
p0 −32.37 ± 49.53
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −153.9
Std Dev 0
3
2
1
0
−1

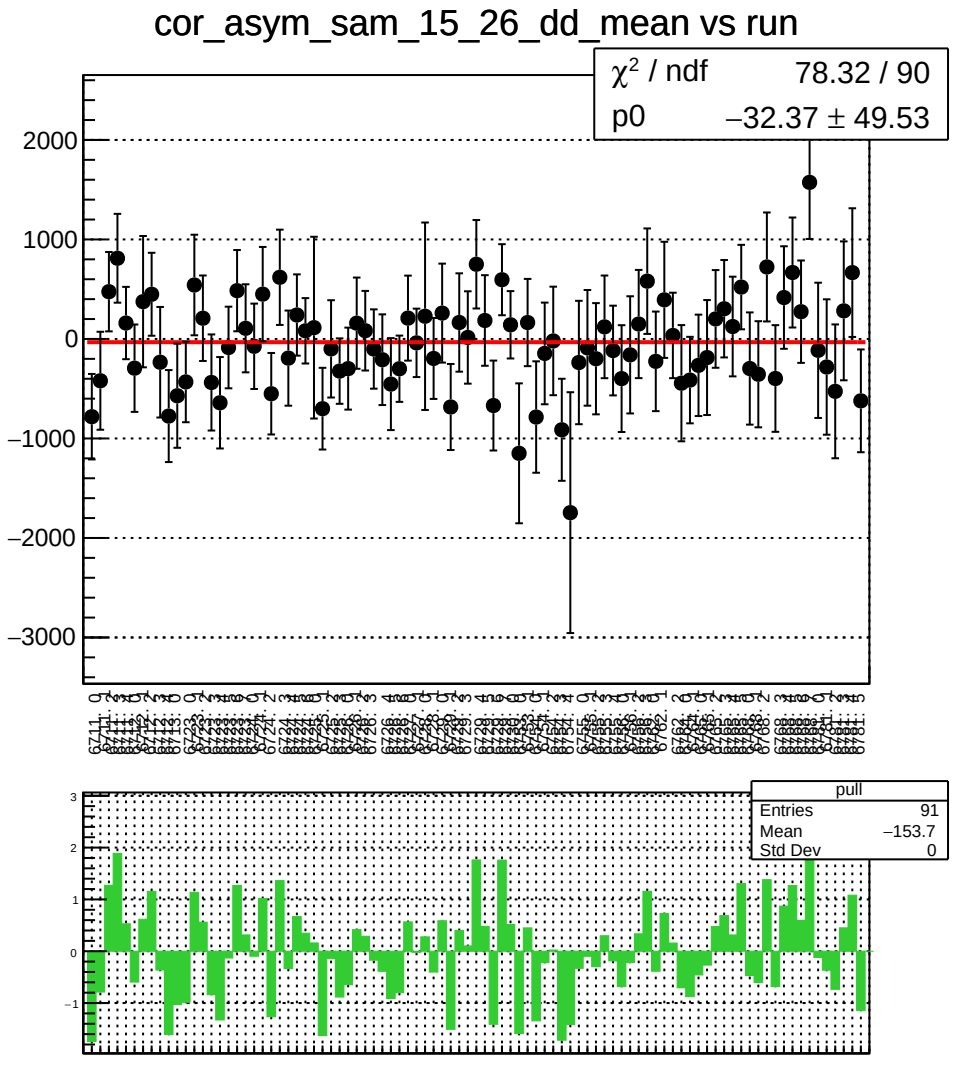

pull1D
Entries 91
Mean −0.0117
Std Dev 0.9276
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

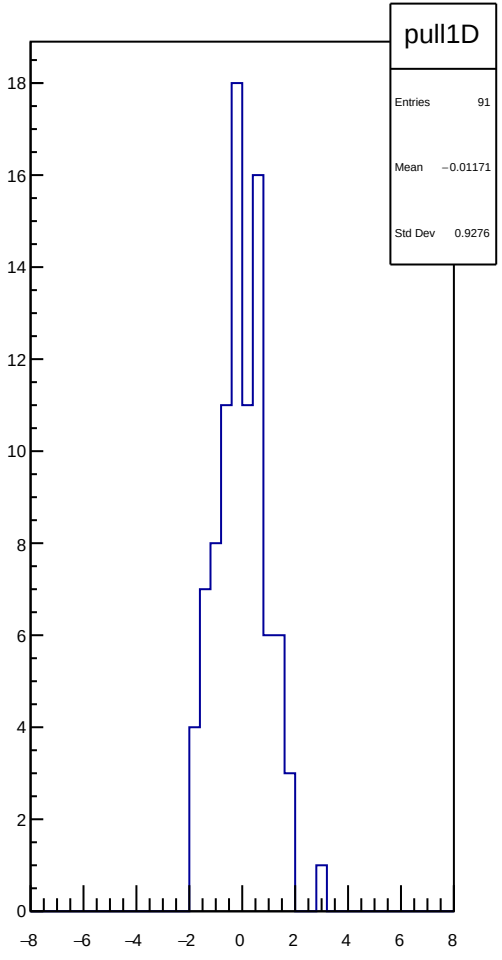

reg_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 5.46e+04 / 90
p0 46.32 ± 0.03502
140
120
100
80
60
40

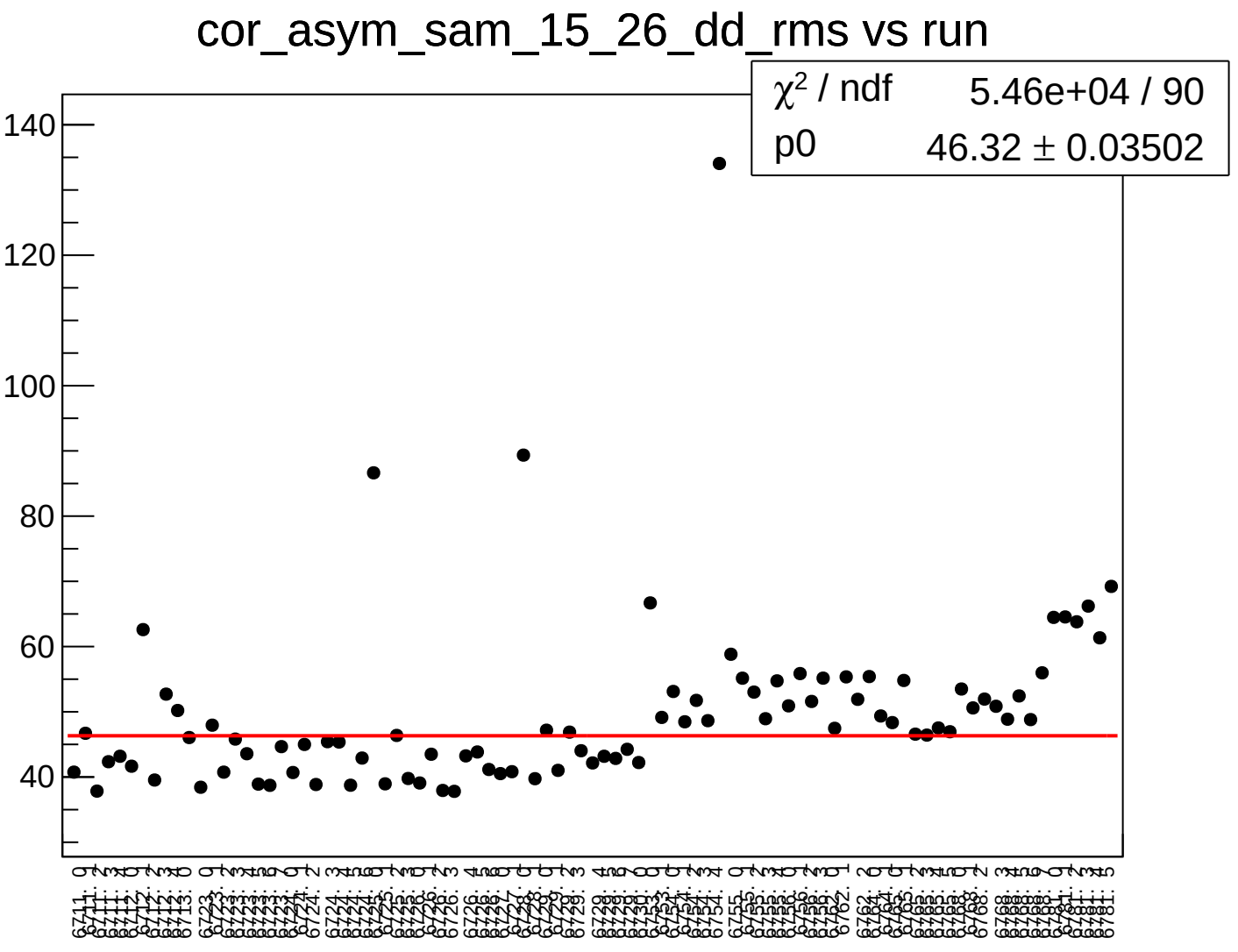

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 99.52 / 90
p0 −366.4 ± 315
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 114.5
Std Dev 46.84
2
1
0
−1
−2
−3

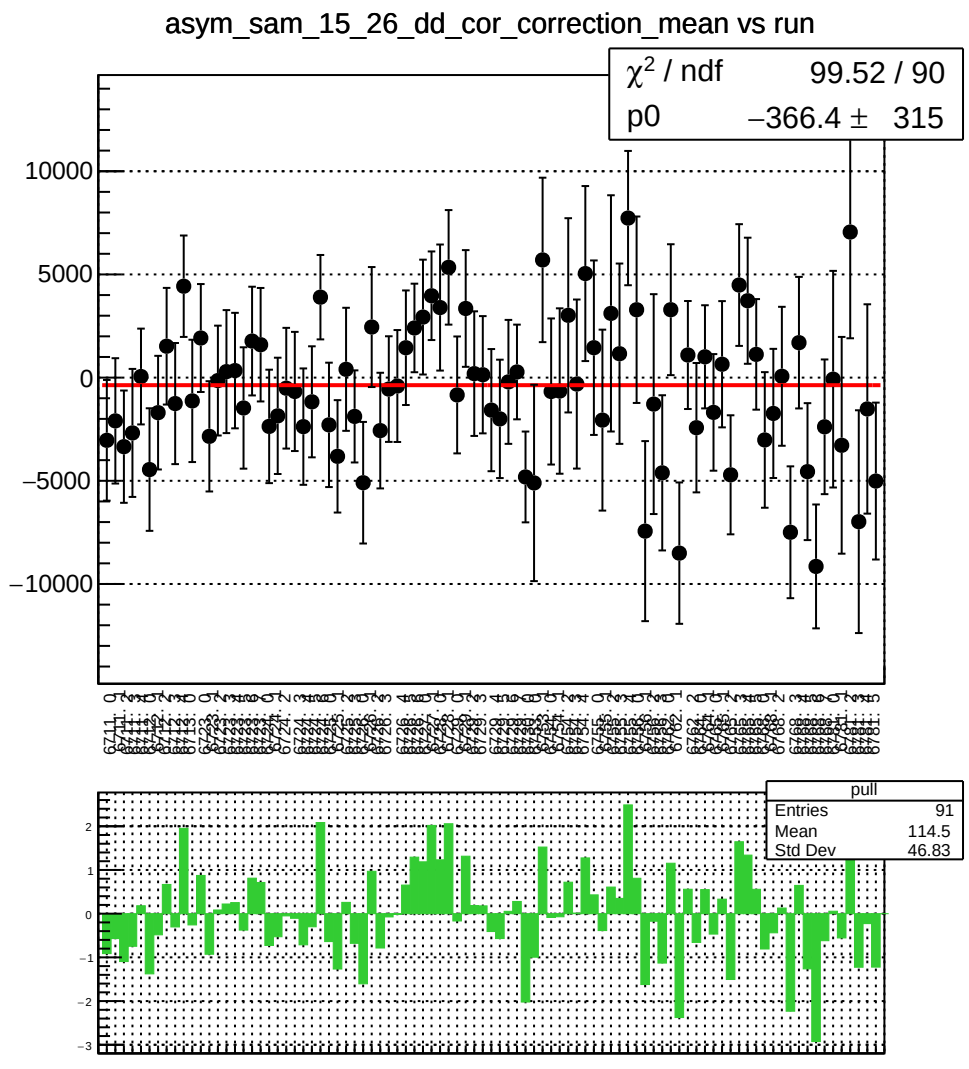

pull1D
Entries 91
Mean −0.02793
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

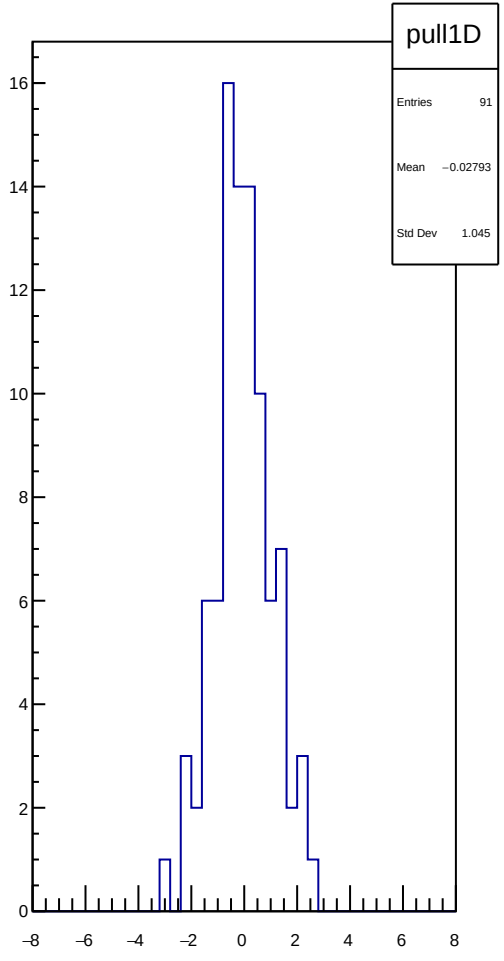

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 6.343e+04 / 90
p0 293.9 ± 0.2228
550
500
450
400
350
300
250

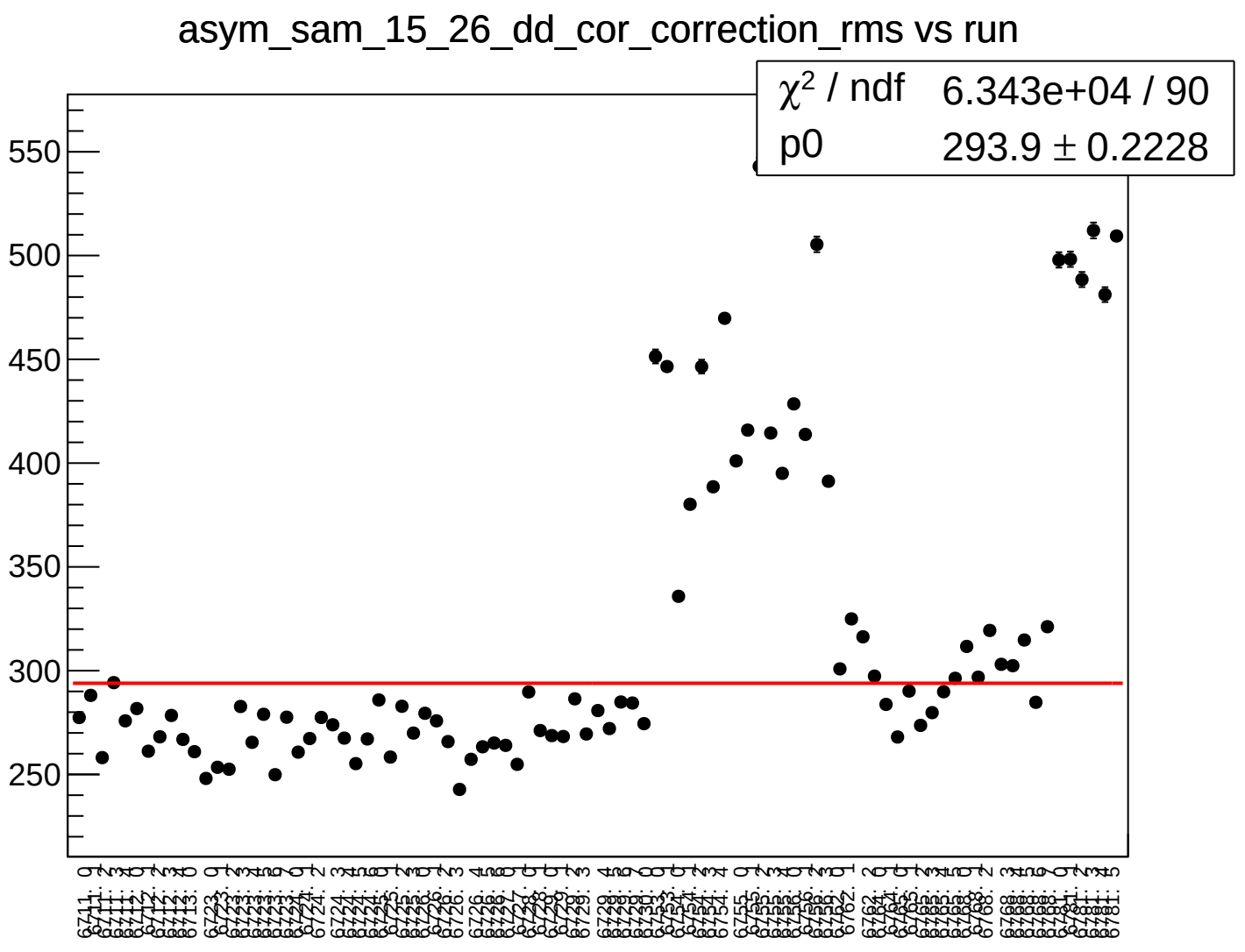

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 78.32 / 90
p0 −32.37 ± 49.53
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −153.7
Std Dev 0
3
2
1
0
−1

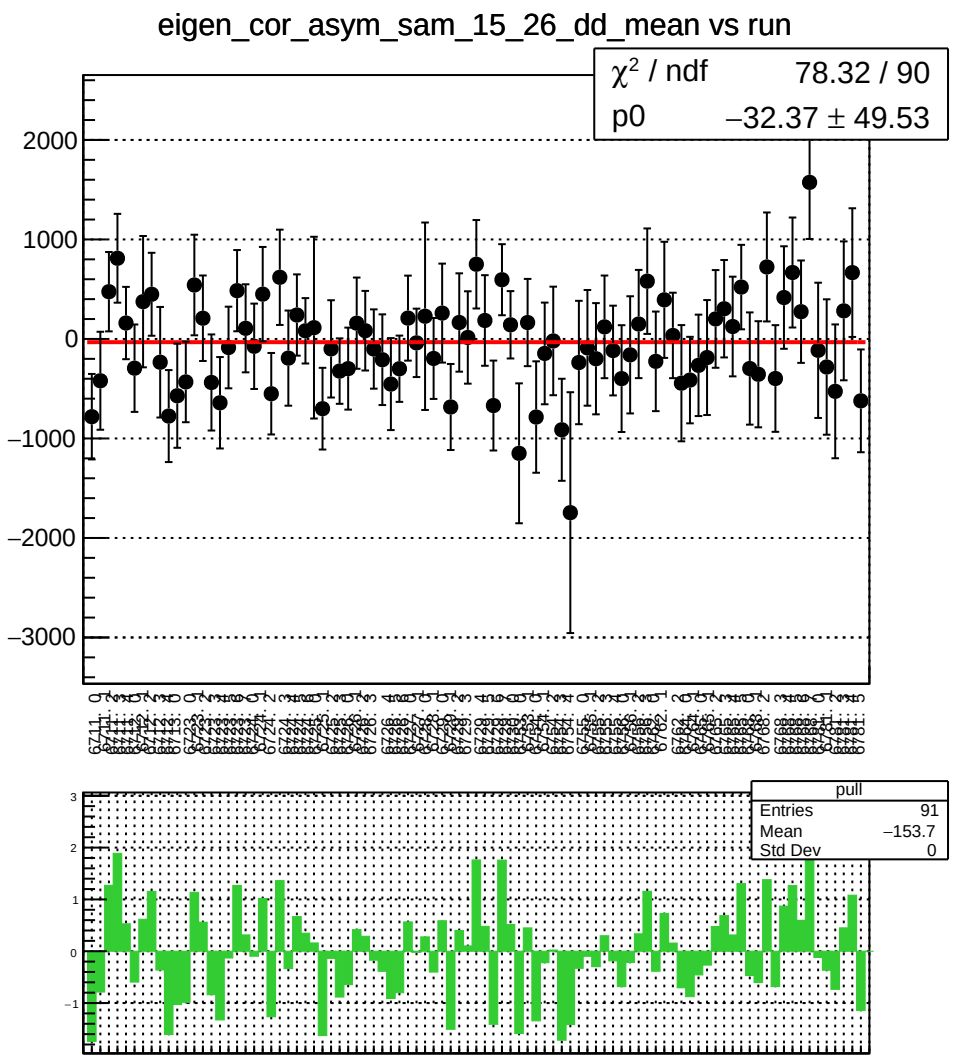

pull1D
Entries 91
Mean −0.01171
Std Dev 0.9276
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

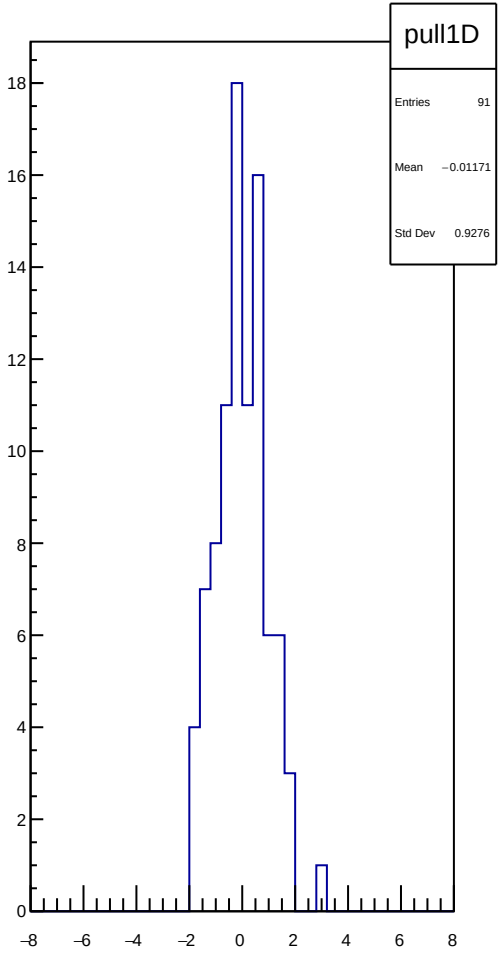

cor_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 5.46e+04 / 90
p0 46.32 ± 0.03502
140
120
100
80
60
40

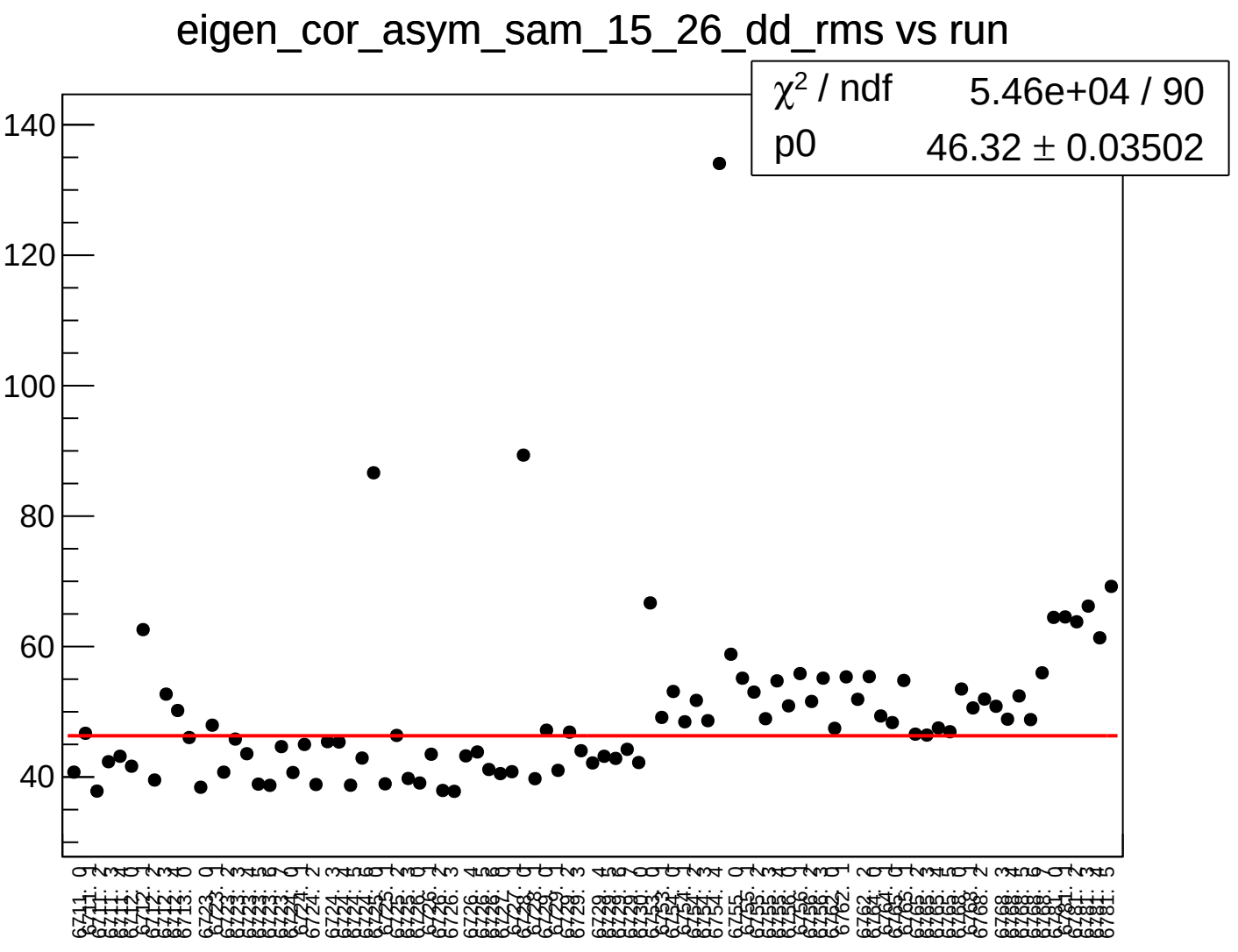

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 99.52 / 90
p0 −366.4 ± 315
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 114.5
Std Dev 46.83
2
1
0
−1
−2
−3

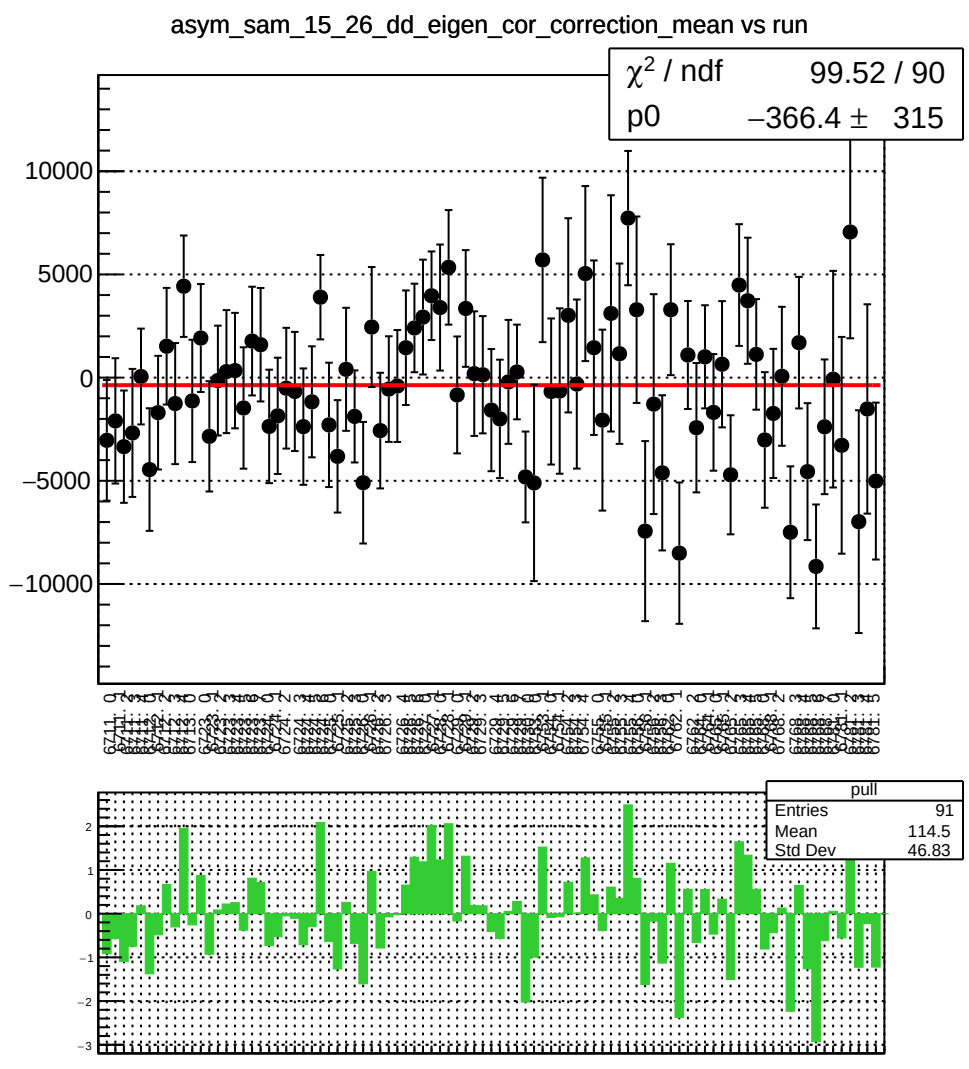

pull1D
Entries 91
Mean −0.02793
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

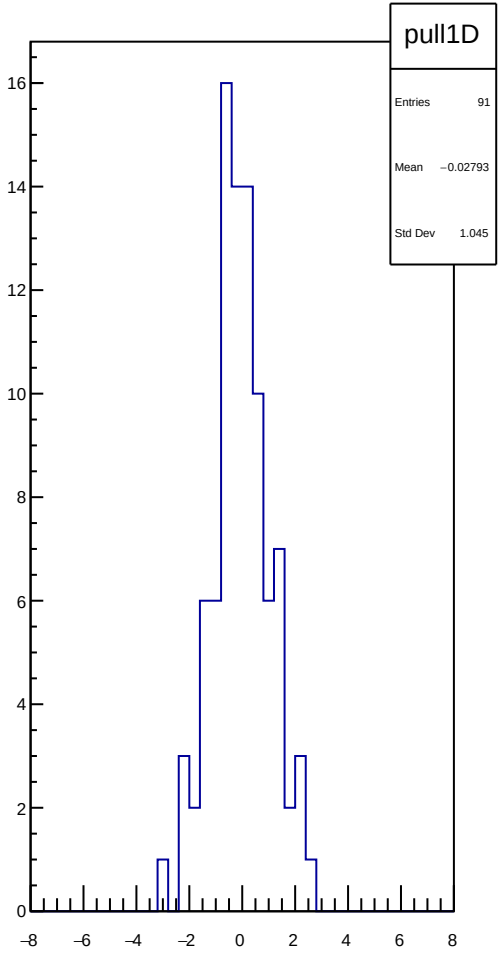

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 6.343e+04 / 90
p0 293.9 ± 0.2228
550
500
450
400
350
300
250

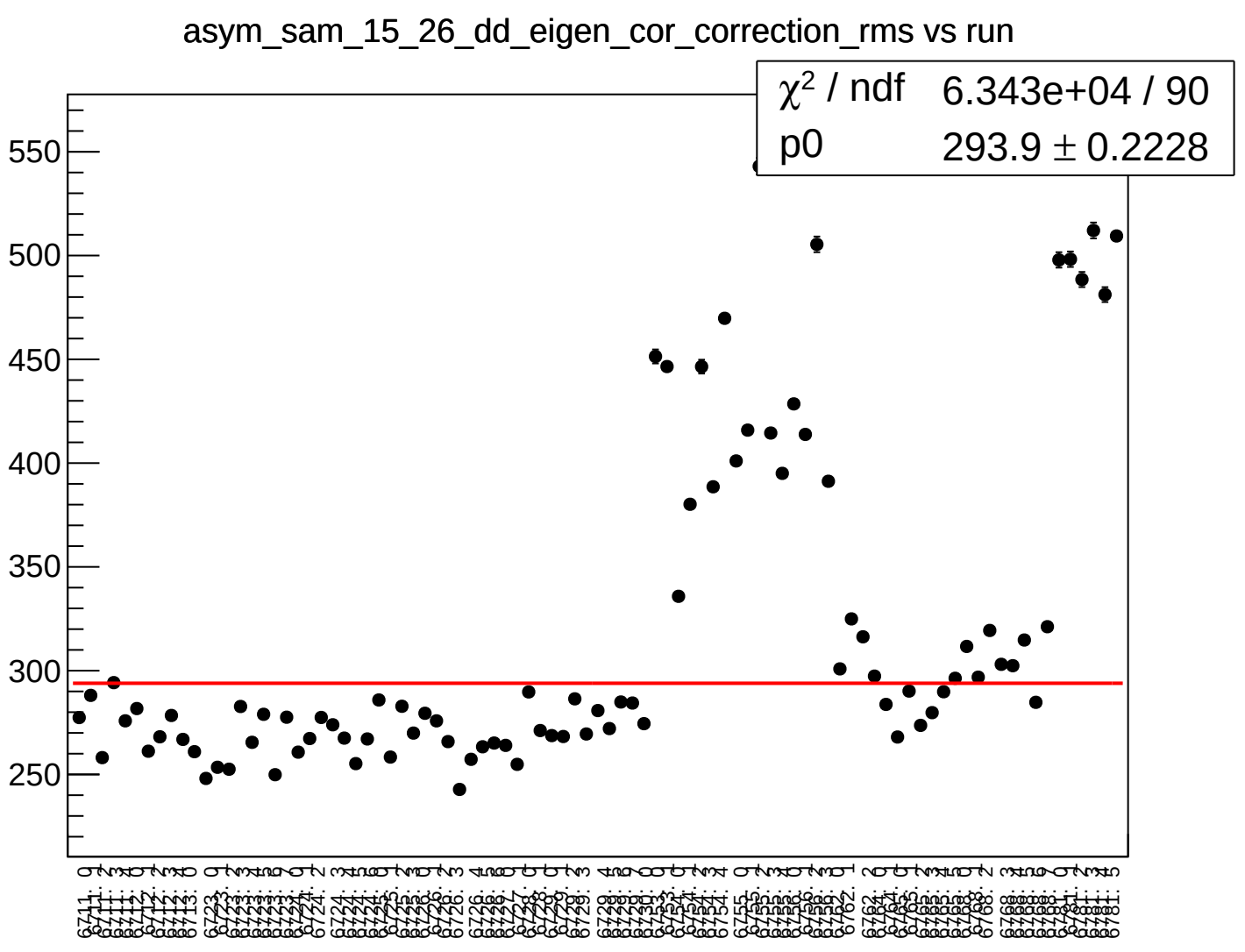

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 78.32 / 90
p0 −32.37 ± 49.53
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean −153.7
Std Dev 0
3
2
1
0
−1

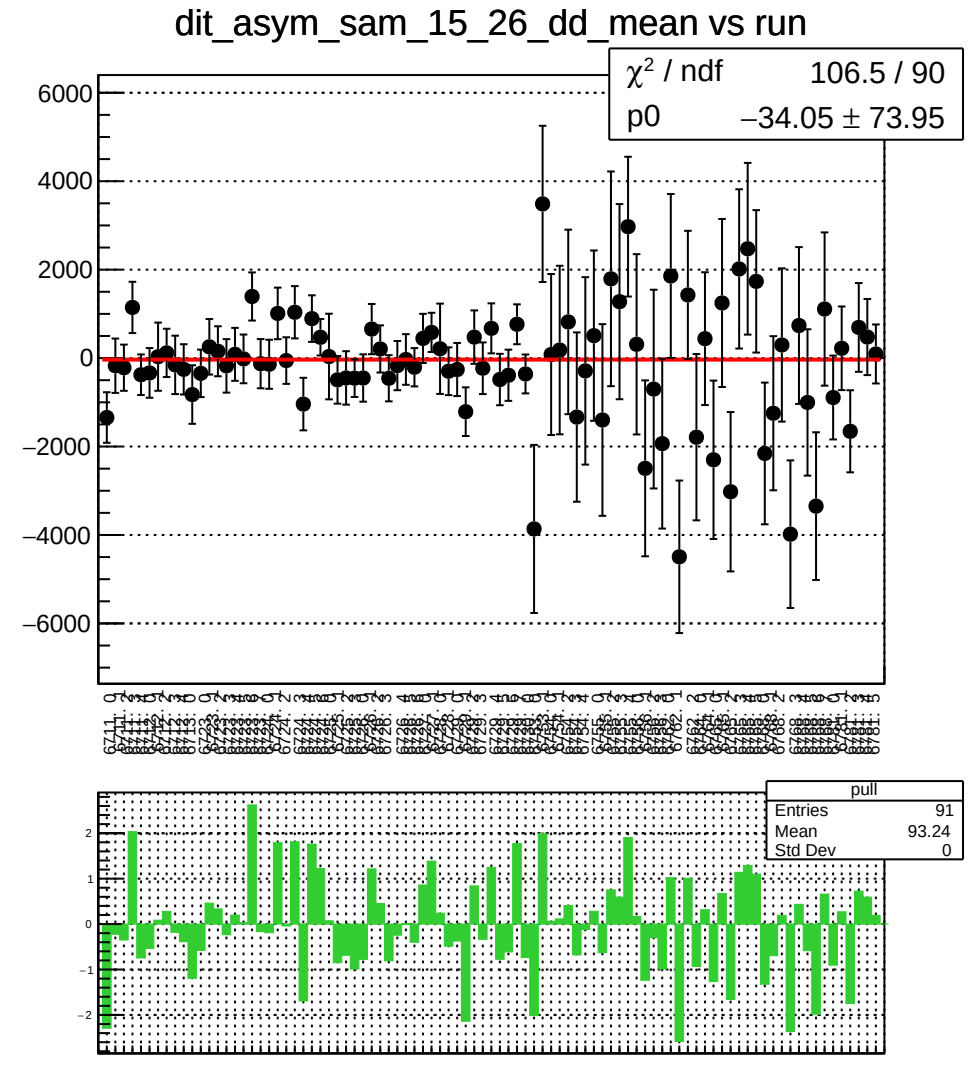

pull1D
Entries 91
Mean −0.01171
Std Dev 0.9276
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

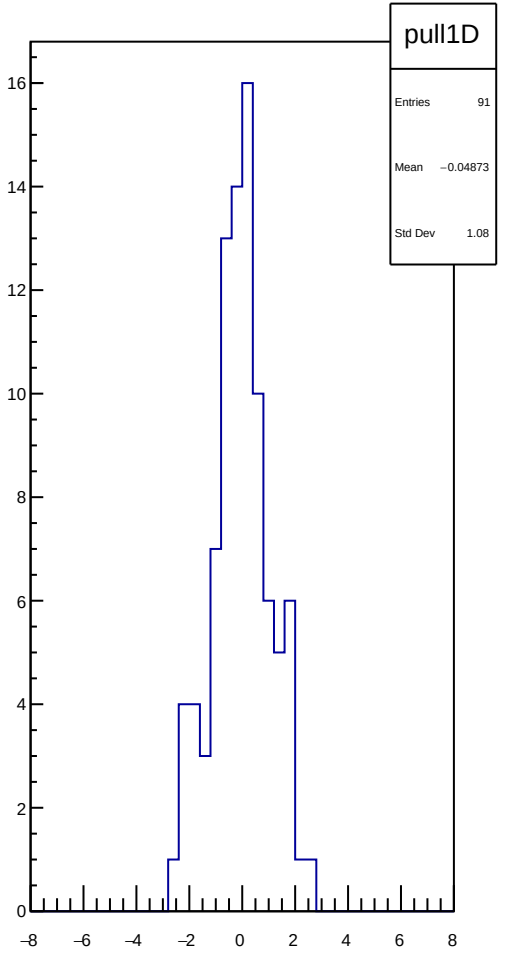

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 5.46e+04 / 90
p0 46.32 ± 0.03502
140
120
100
80
60
40

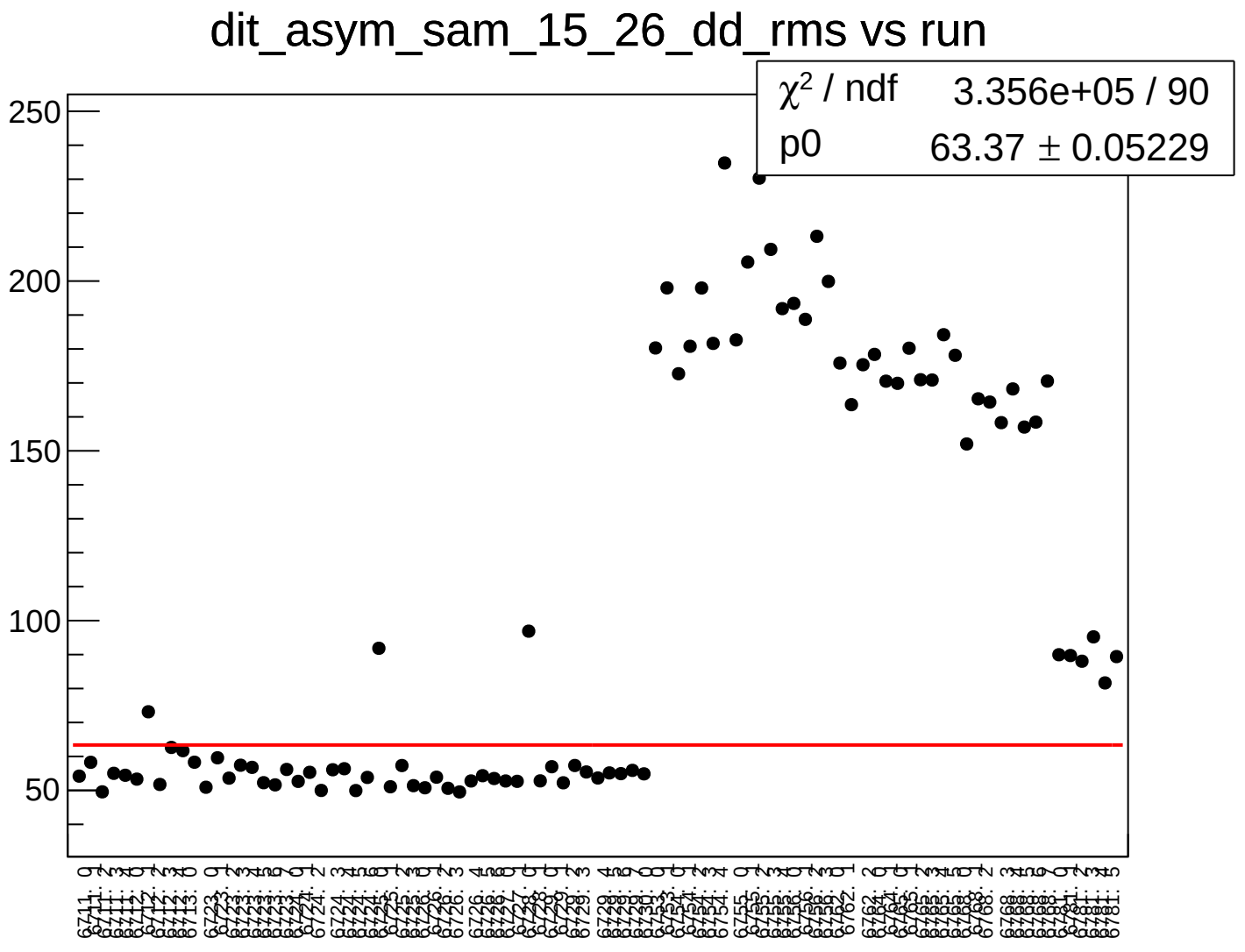

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.52 / 90
p0 −366.4 ± 315
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 114.5
Std Dev 46.83
2
1
0
−1
−2
−3

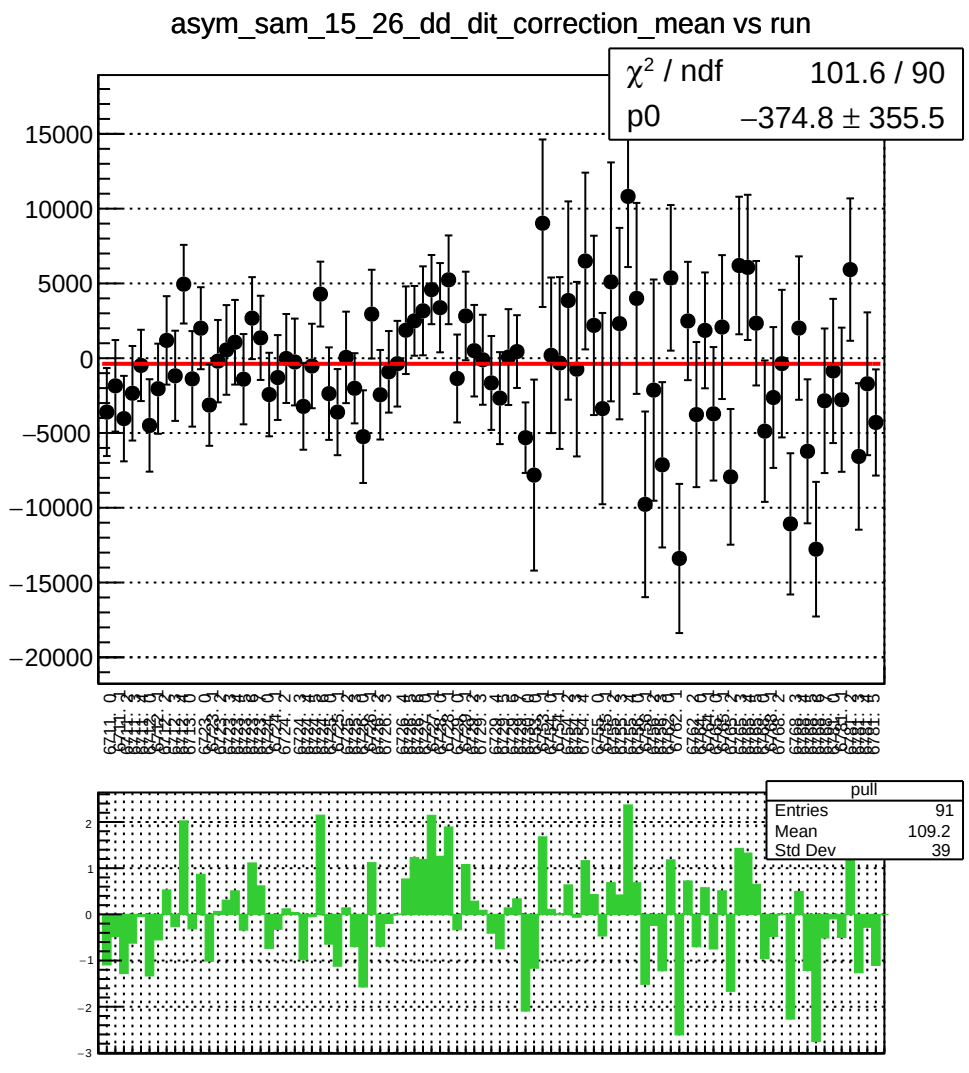

pull1D
Entries 91
Mean −0.02793
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

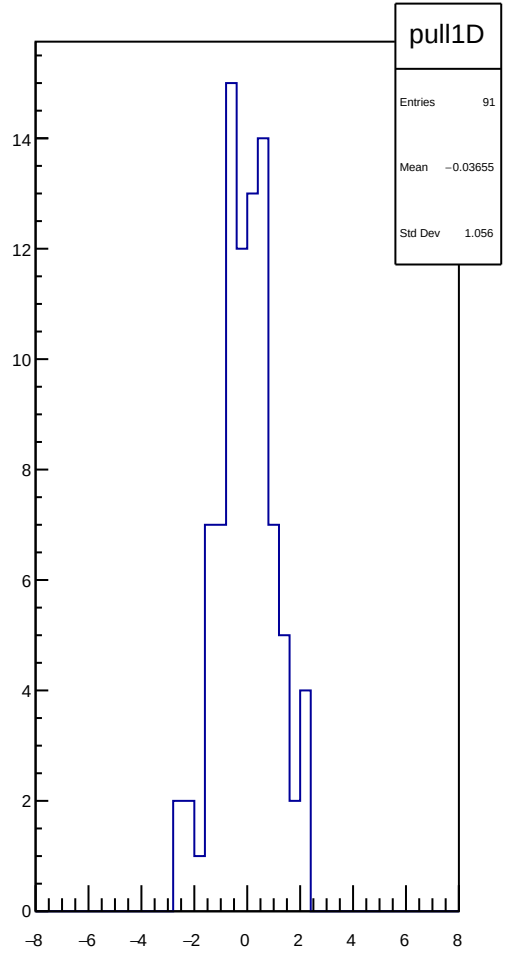

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.343e+04 / 90
p0 293.9 ± 0.2228
550
500
450
400
350
300
250

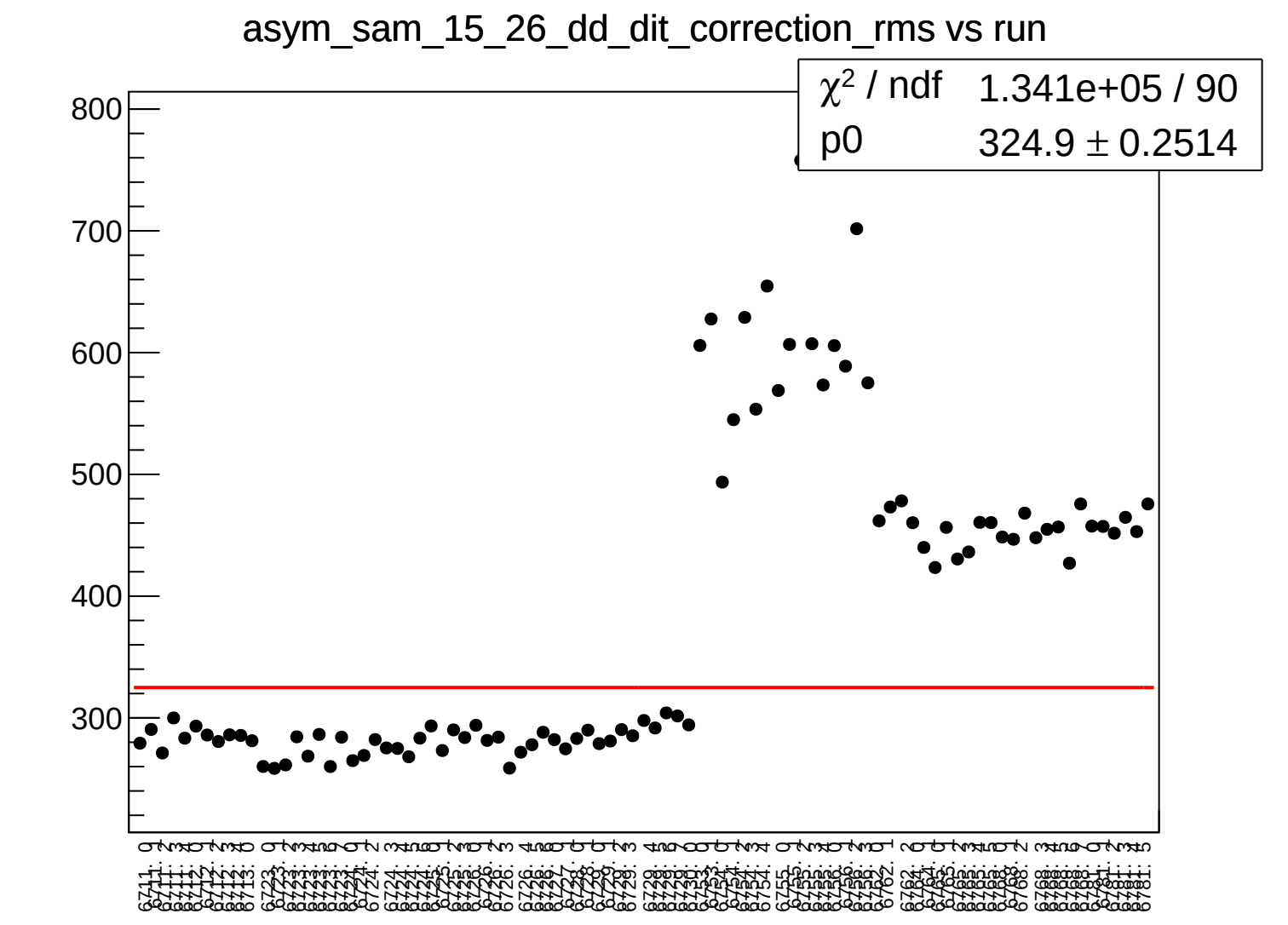

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 106.5 / 90
p0 −34.05 ± 73.95
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 93.24
Std Dev 0
2
1
0
−1
−2

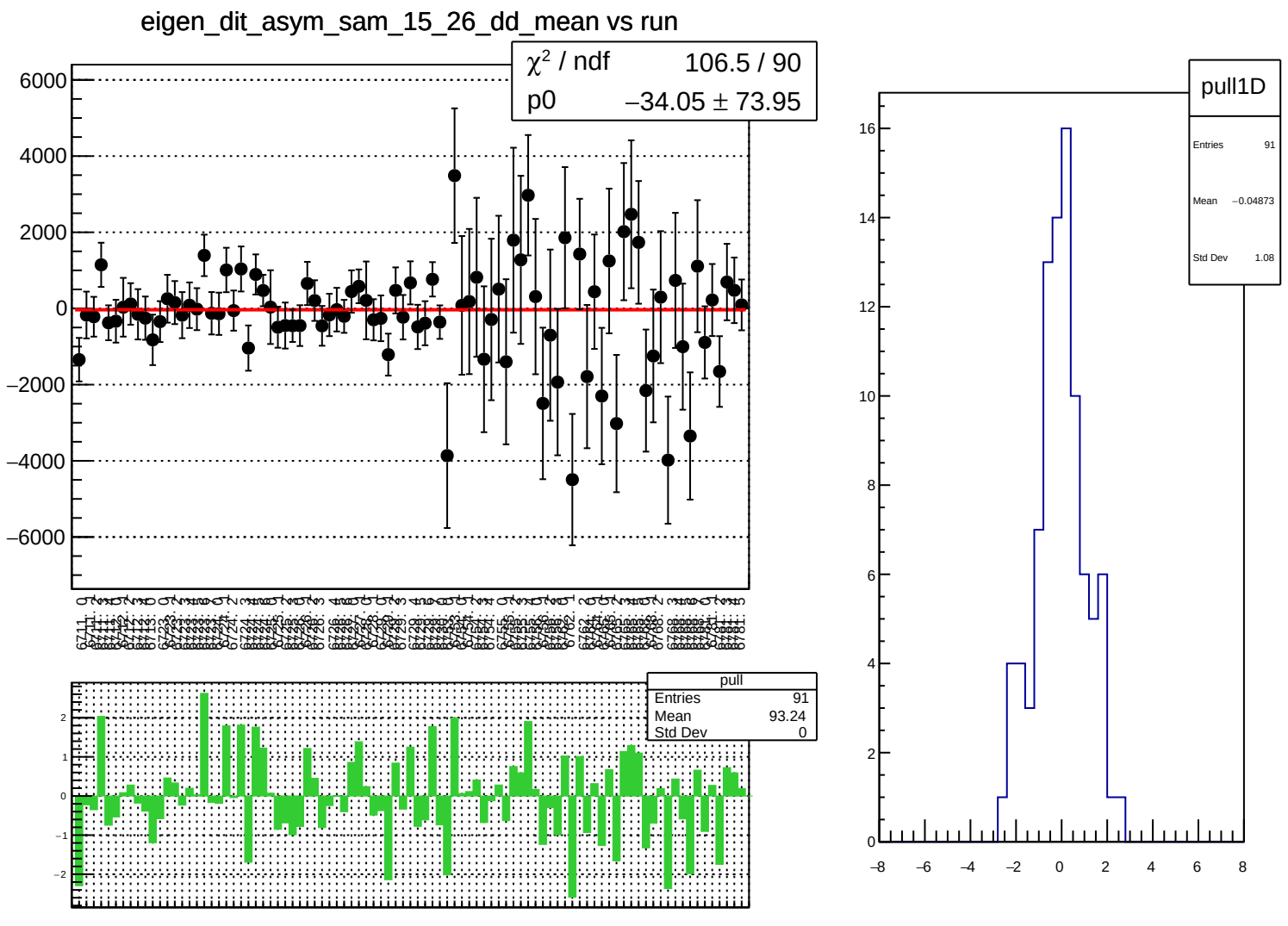

pull1D
Entries 91
Mean −0.04873
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

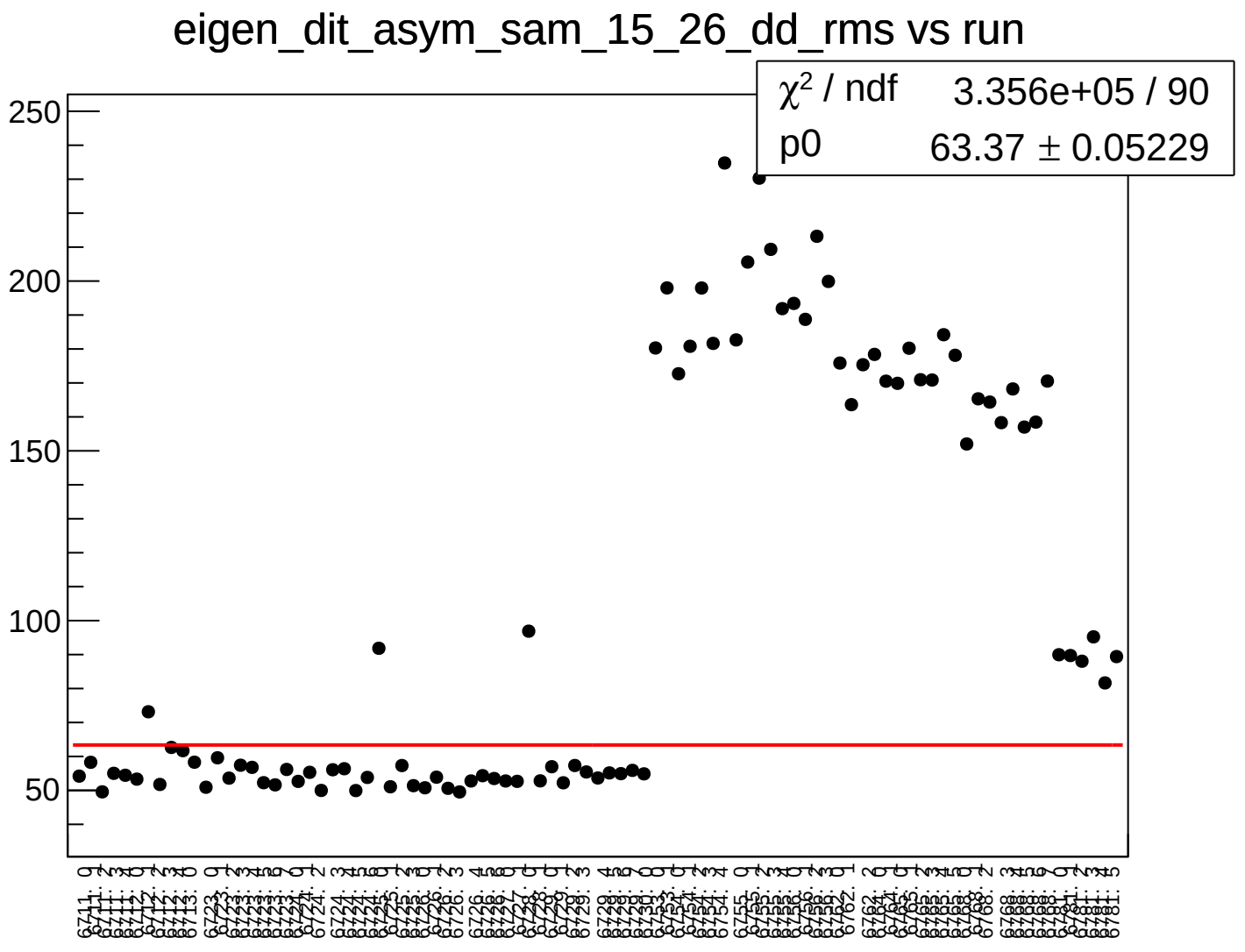

dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 3.356e+05 / 90
p0 63.37 ± 0.05229
250
200
150
100
50

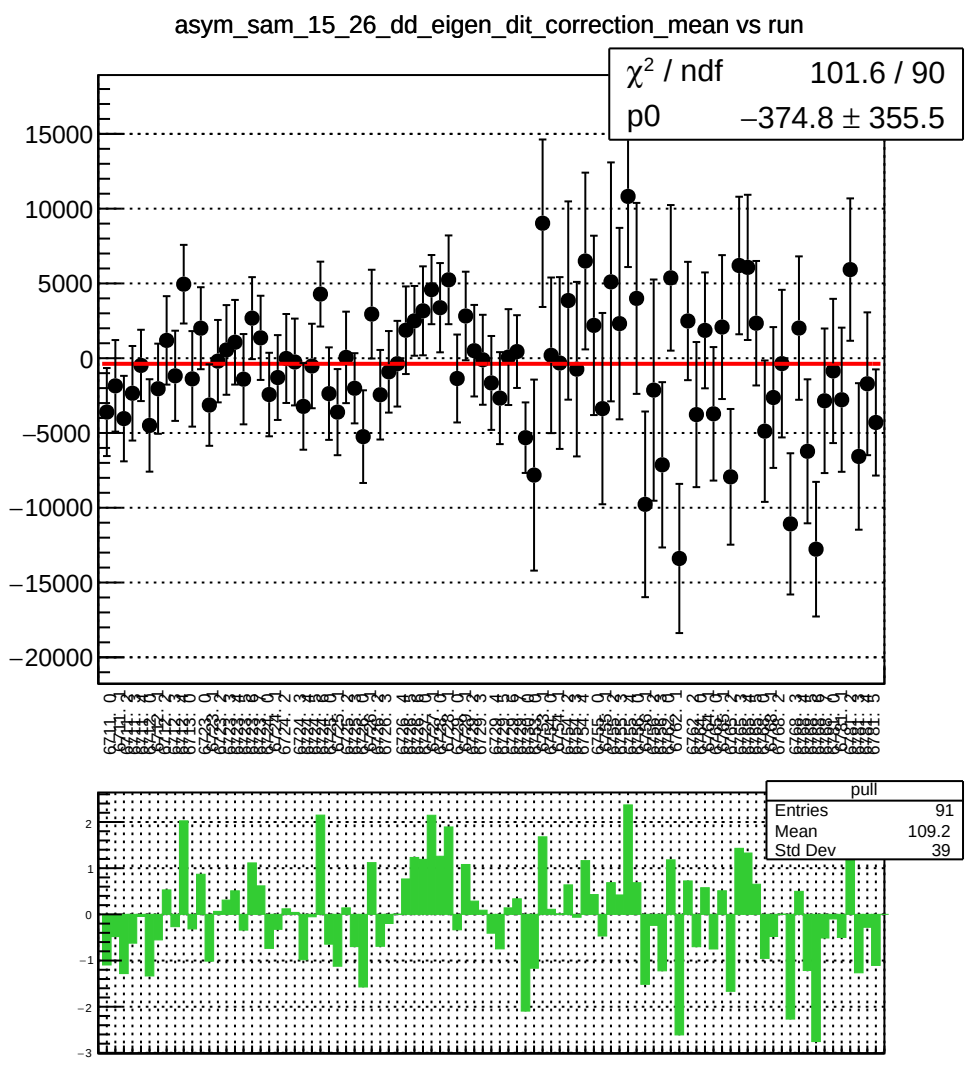

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 101.6 / 90
p0 −374.8 ± 355.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 91
Mean 109.2
Std Dev 39
2
1
0
−1
−2
−3

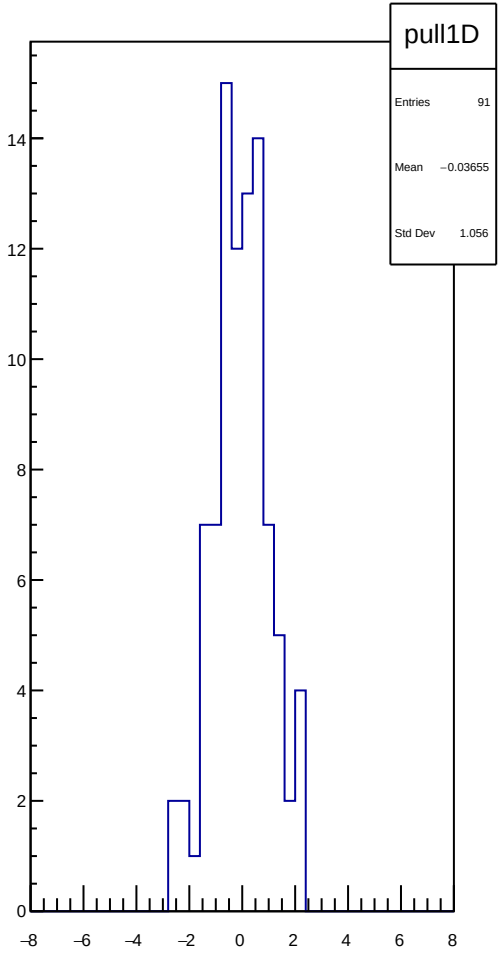

pull1D
Entries 91
Mean −0.03655
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

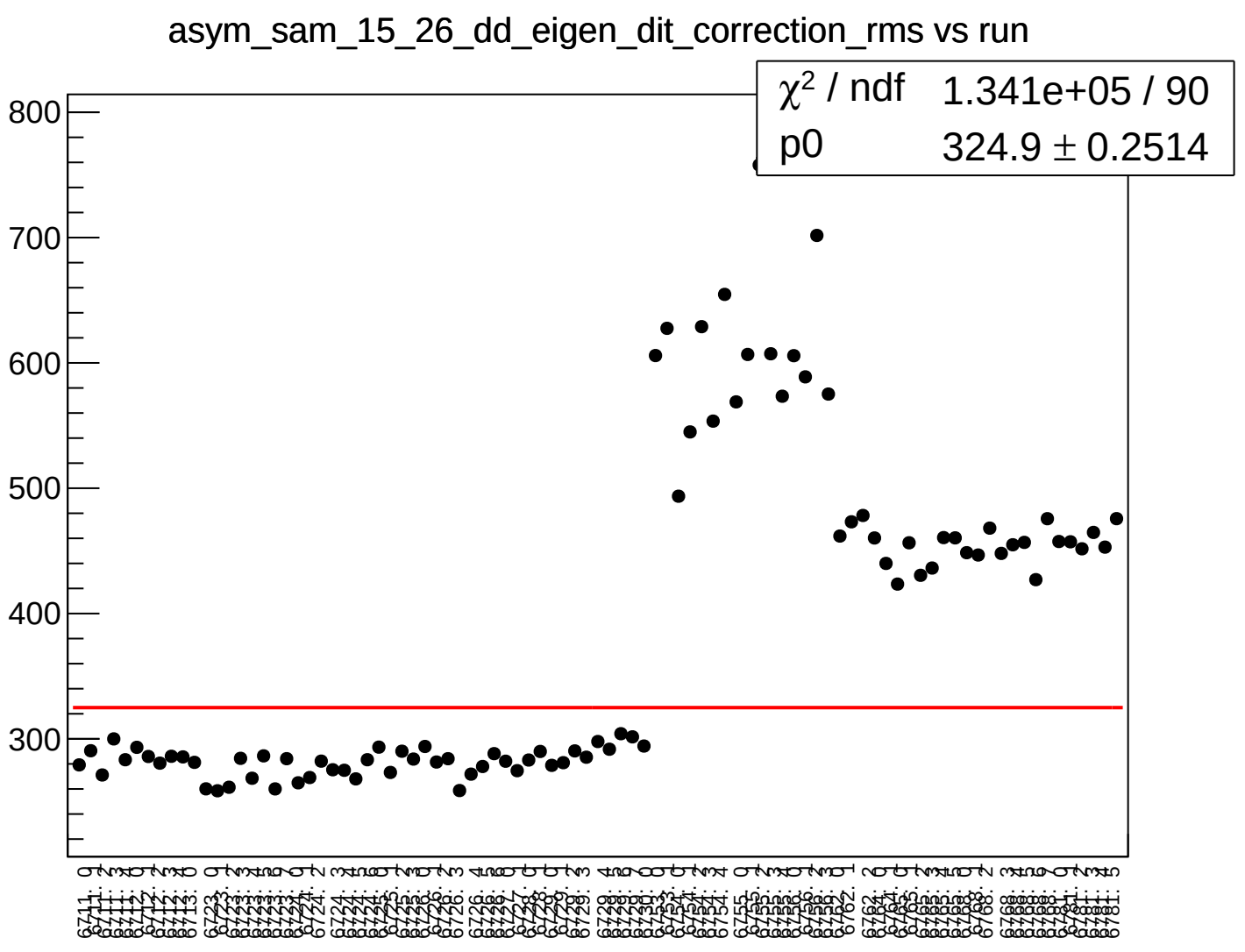

asym_sam_15_26_dd_dit_correction_rms vs run
χ^2 / ndf 1.341e+05 / 90
p0 324.9 ± 0.2514
800
700
600
500
400
300

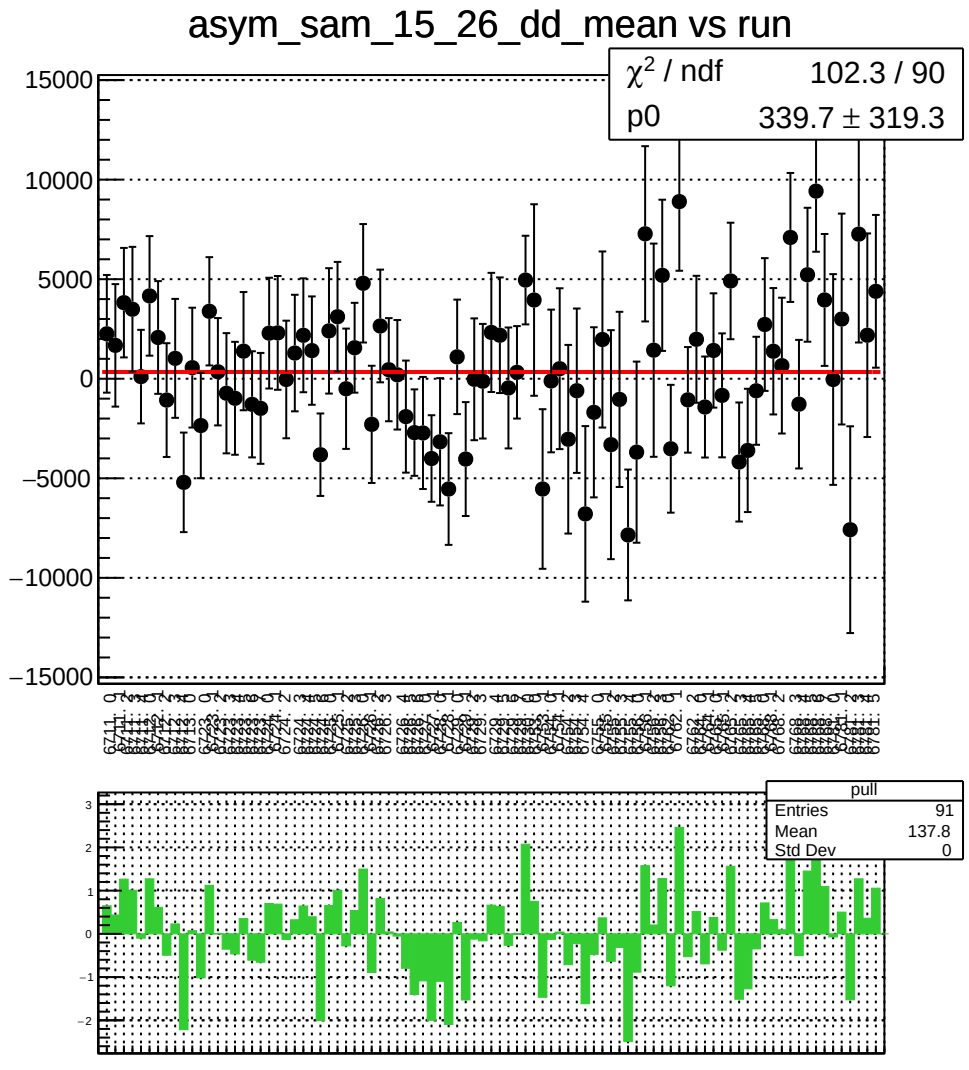

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 106.5 / 90
p0 −34.05 ± 73.95
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 93.24
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean −0.04873
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

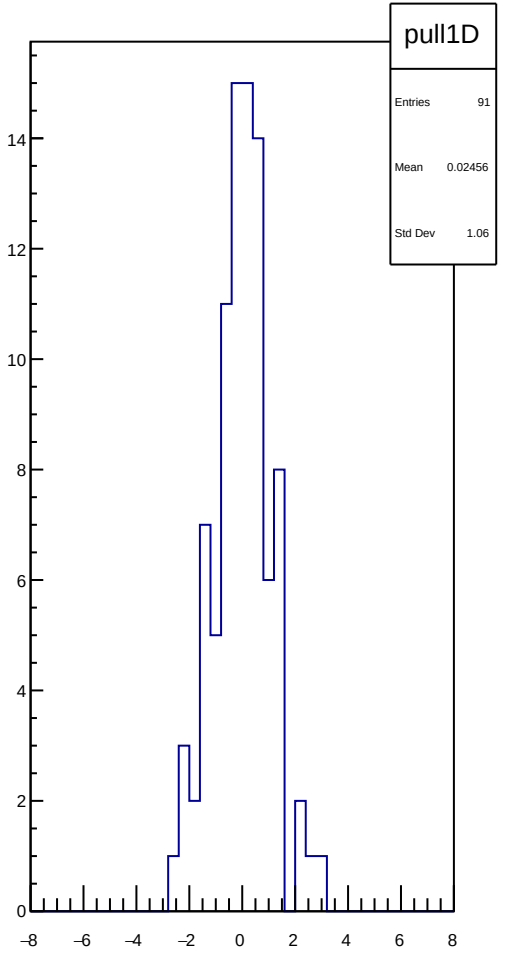

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 3.356e+05 / 90
p0 63.37 ± 0.05229
250
200
150
100
50

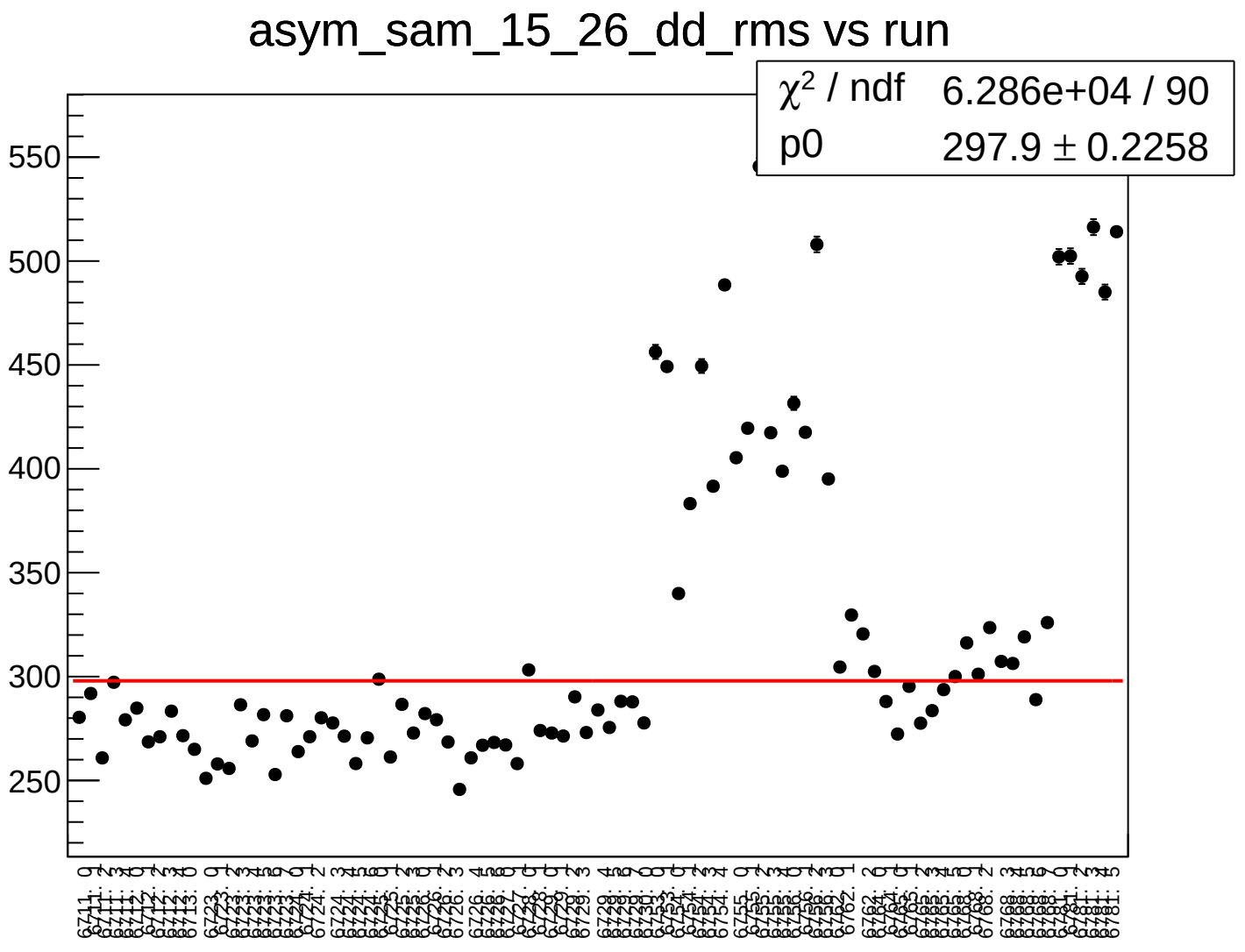

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 101.6 / 90
p0 −374.8 ± 355.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 91
Mean 109.2
Std Dev 39
2
1
0
−1
−2
−3

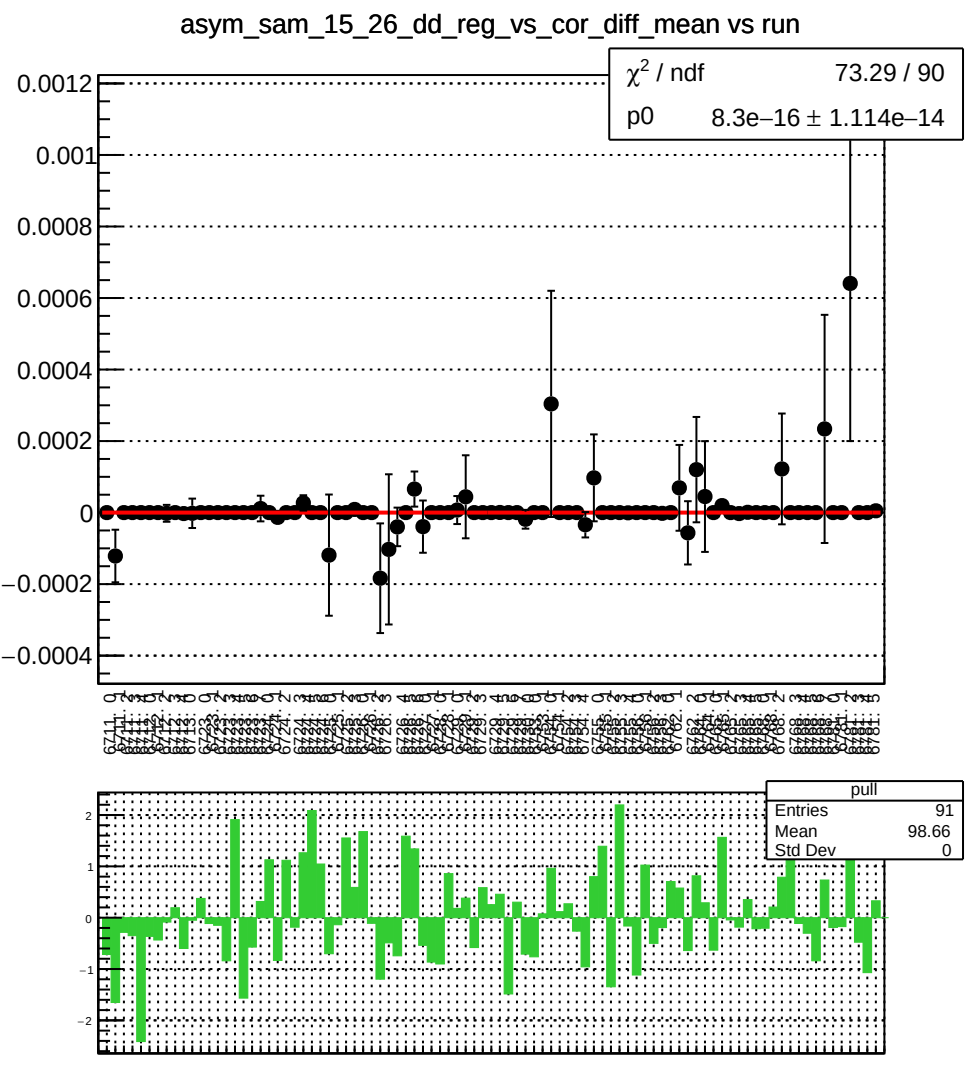

pull1D
Entries 91
Mean −0.03655
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

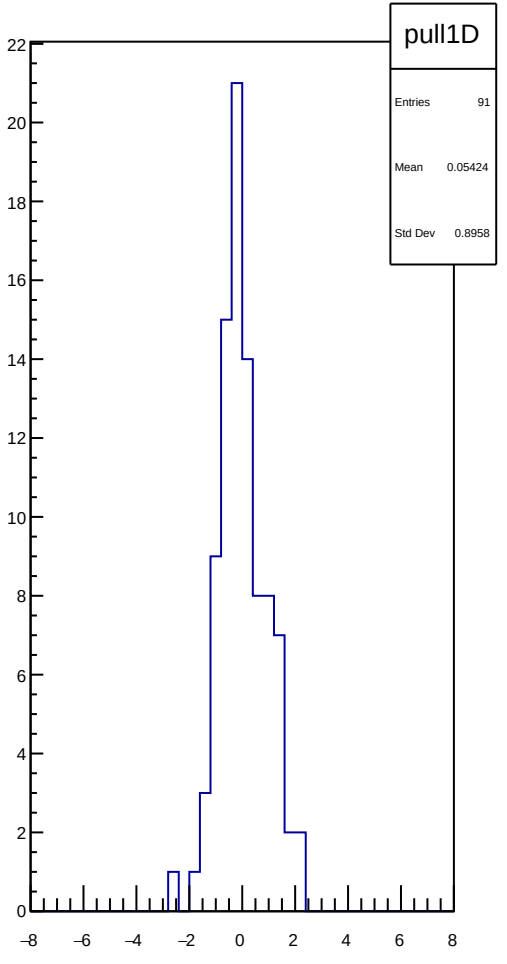

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.341e+05 / 90
p0 324.9 ± 0.2514
800
700
600
500
400
300

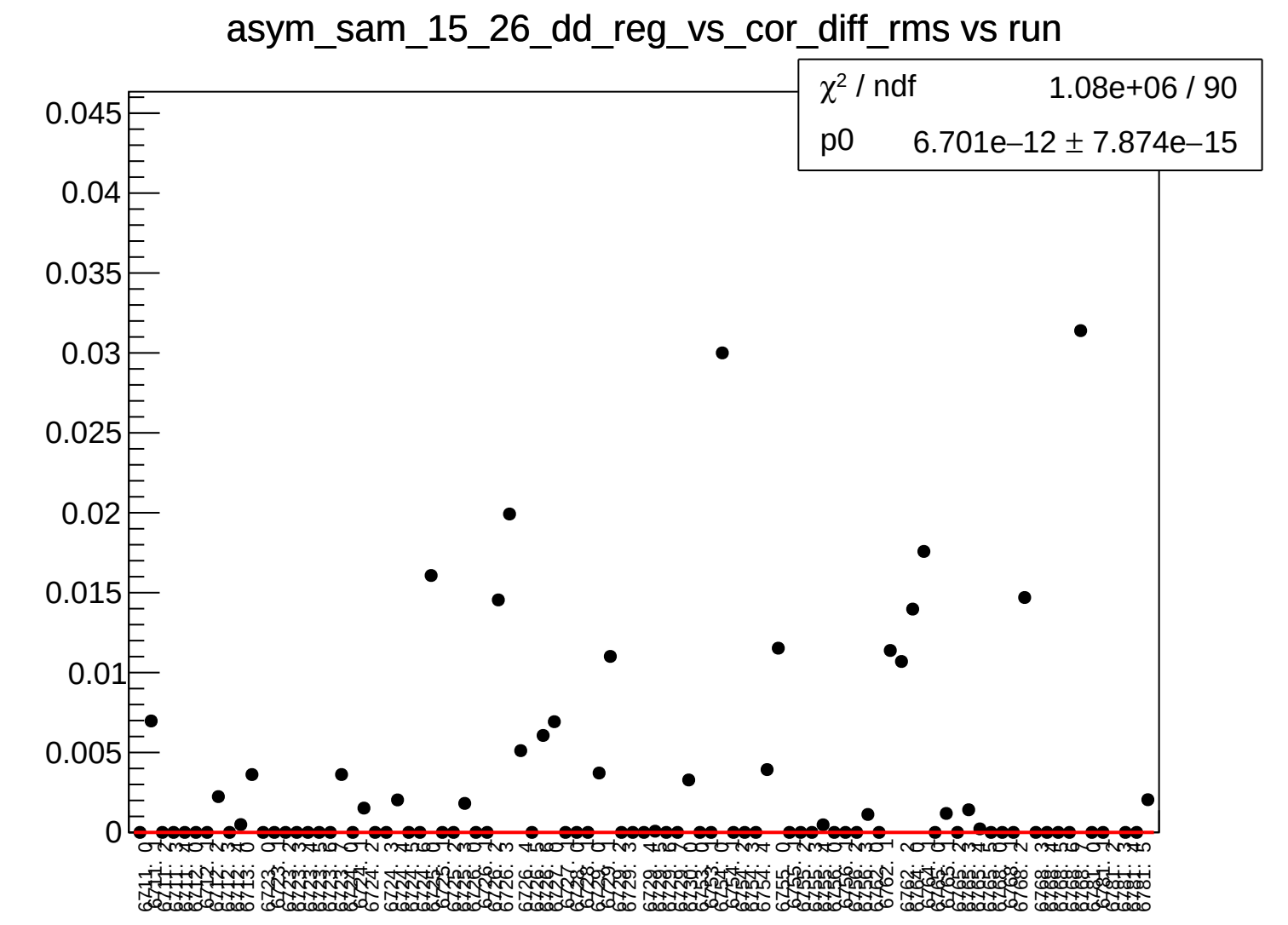

asym_sam_15_26_dd_mean vs run
χ² / ndf 102.3 / 90
p0 339.7 ± 319.3
pull
Entries 91
Mean 137.8
Std Dev 0

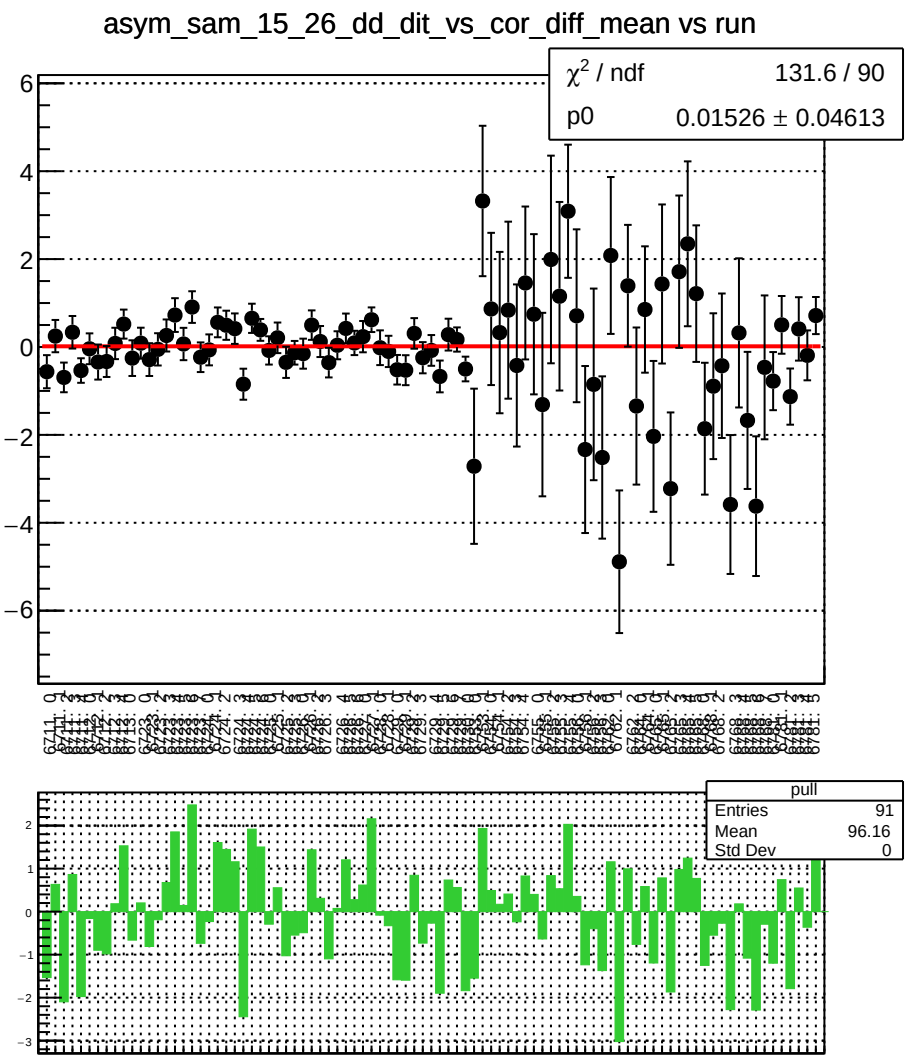

pull1D
Entries 91
Mean 0.02456
Std Dev 1.06

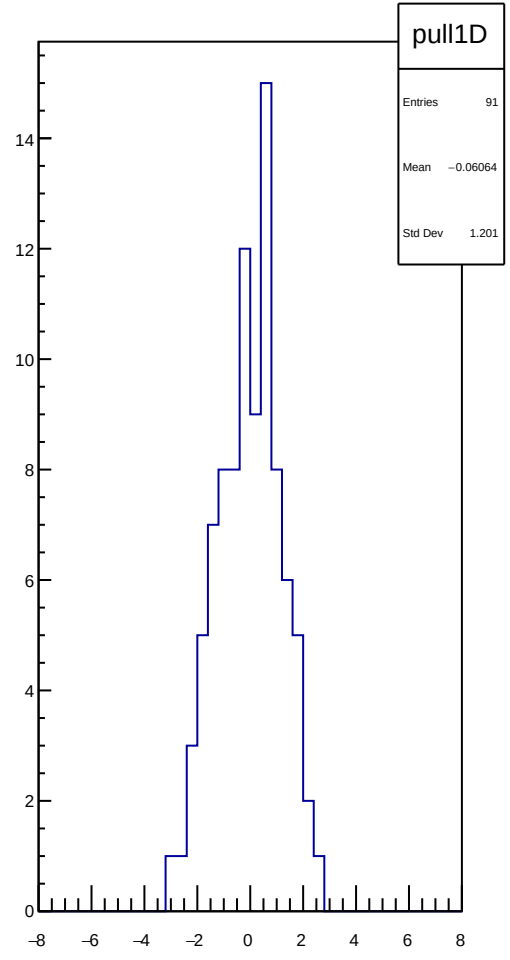

asym_sam_15_26_dd_rms vs run
χ^2 / ndf 6.286e+04 / 90
p0 297.9 ± 0.2258
550
500
450
400
350
300
250

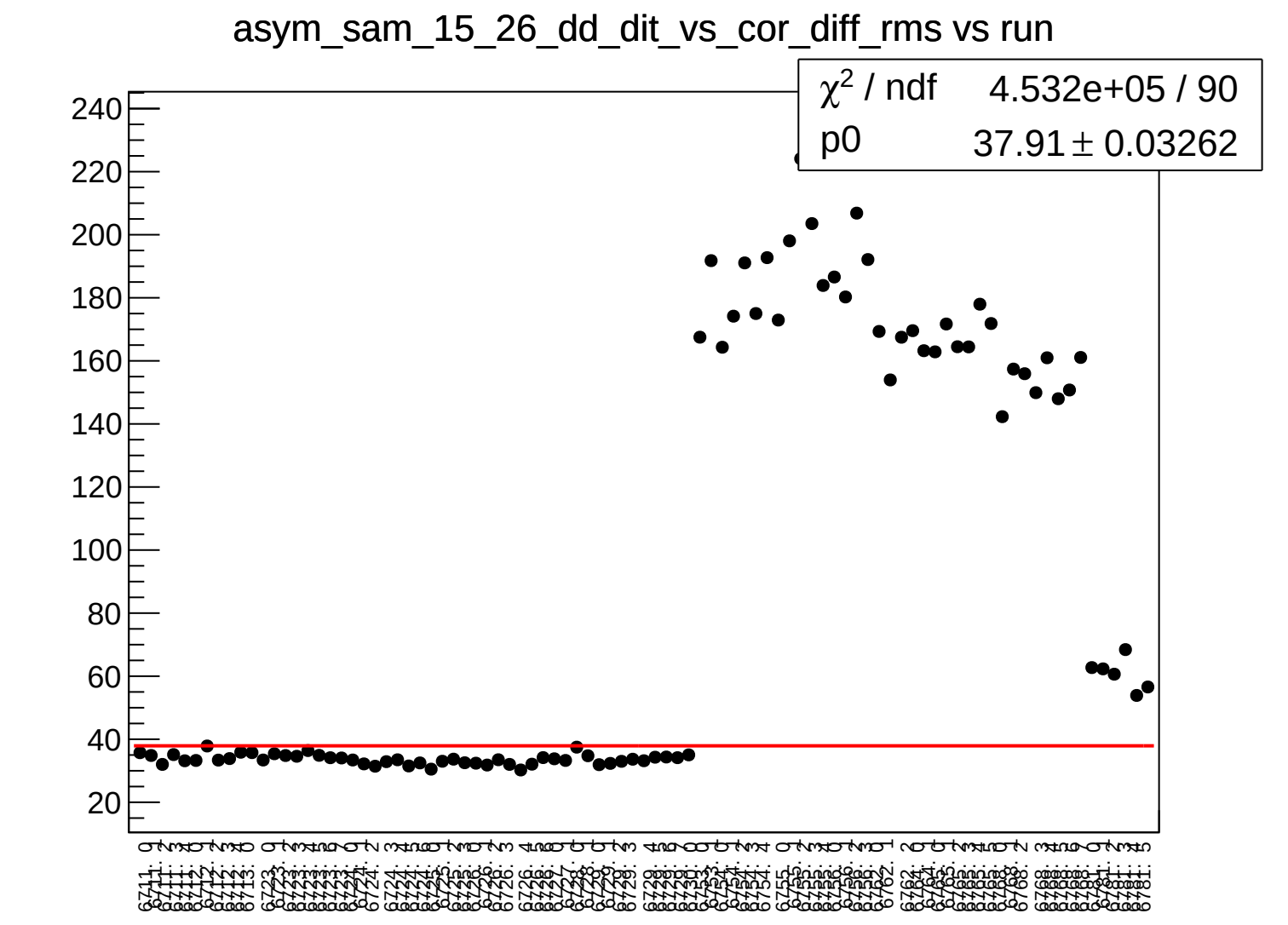

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 73.29 / 90
p0 8.3e−16 ± 1.114e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
pull
Entries 91
Mean 98.66
Std Dev 0
2
1
0
−1
−2

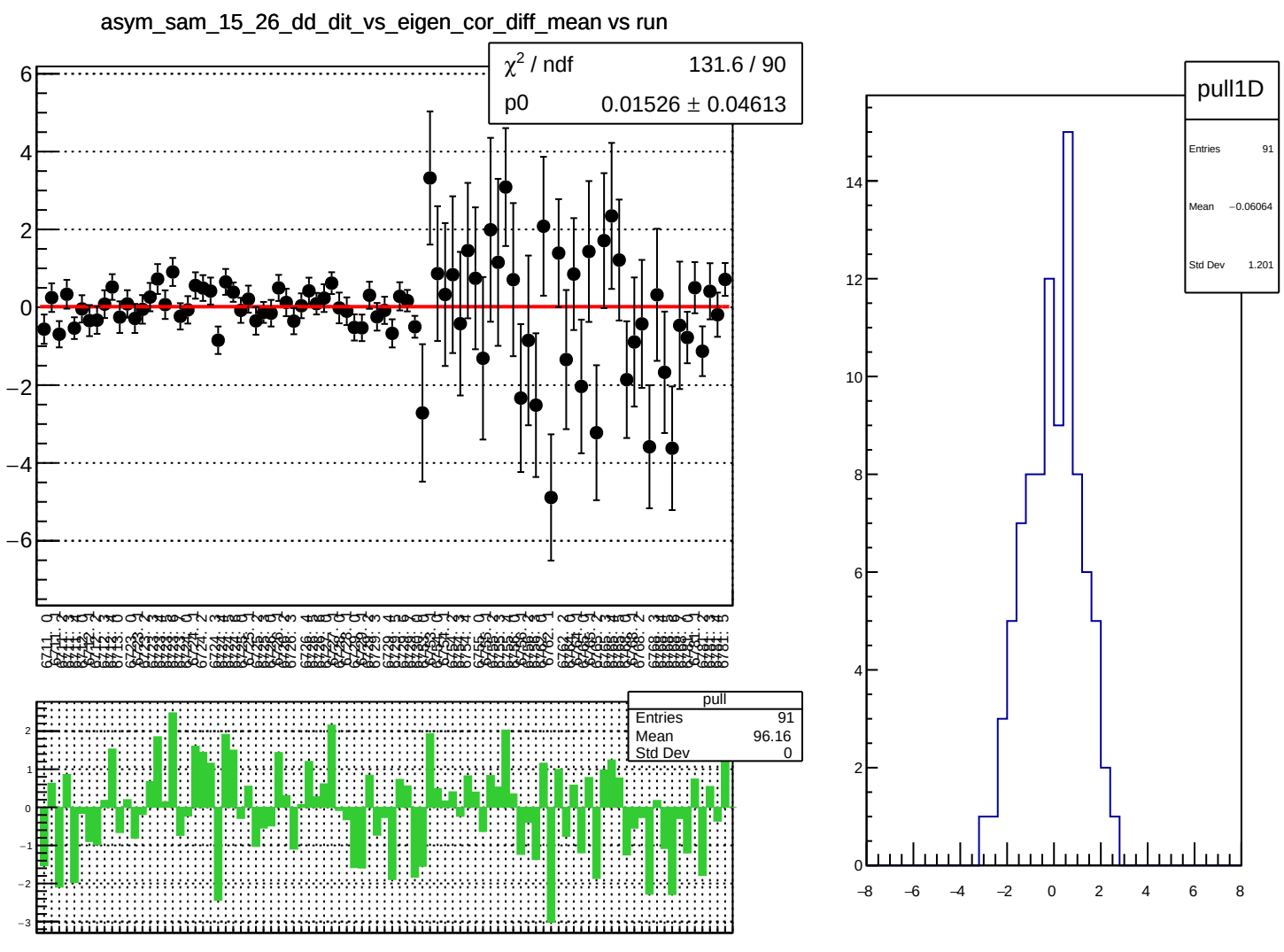

pull1D
Entries 91
Mean 0.05424
Std Dev 0.8958
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

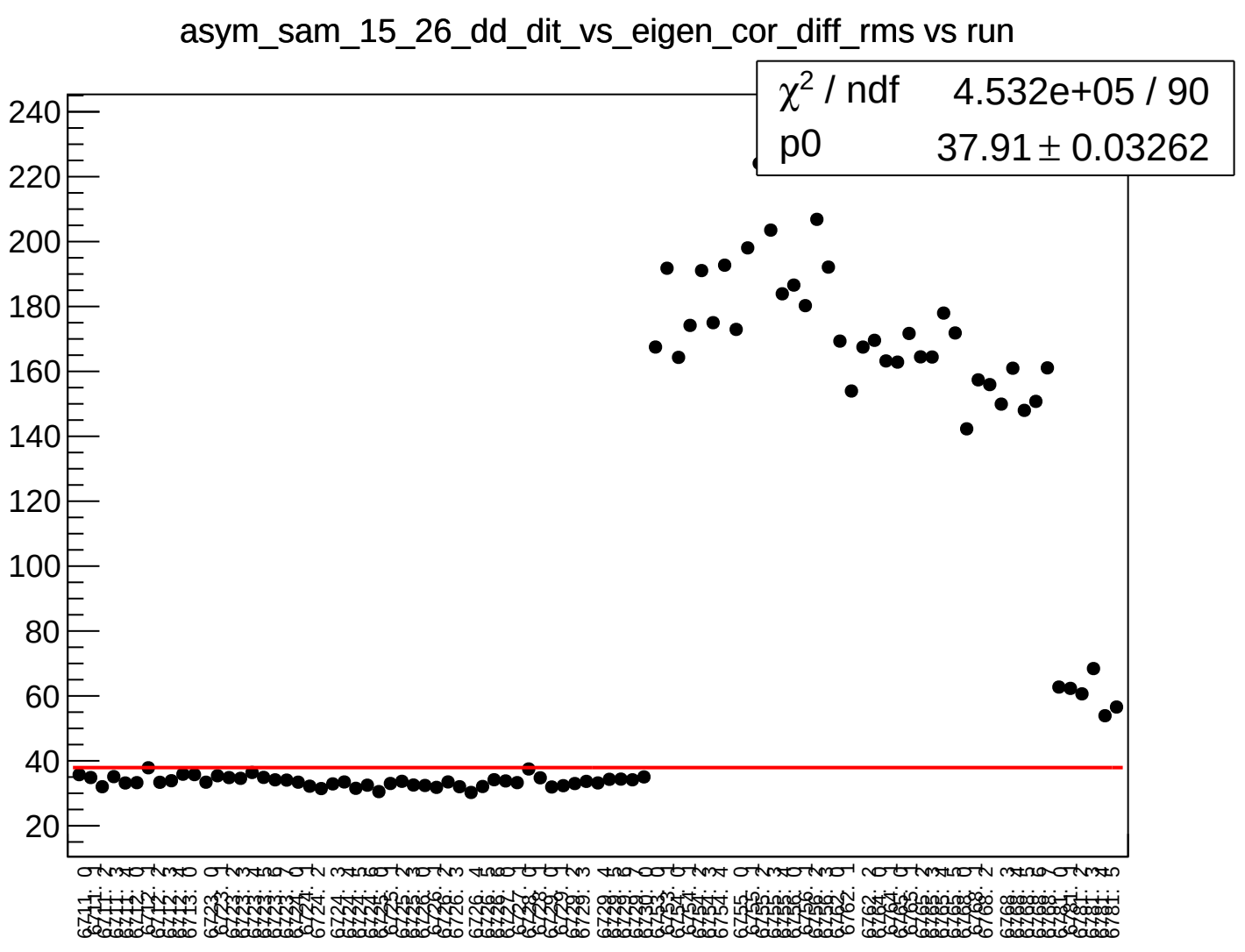

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.08e+06 / 90
p0 6.701e−12 ± 7.874e−15
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

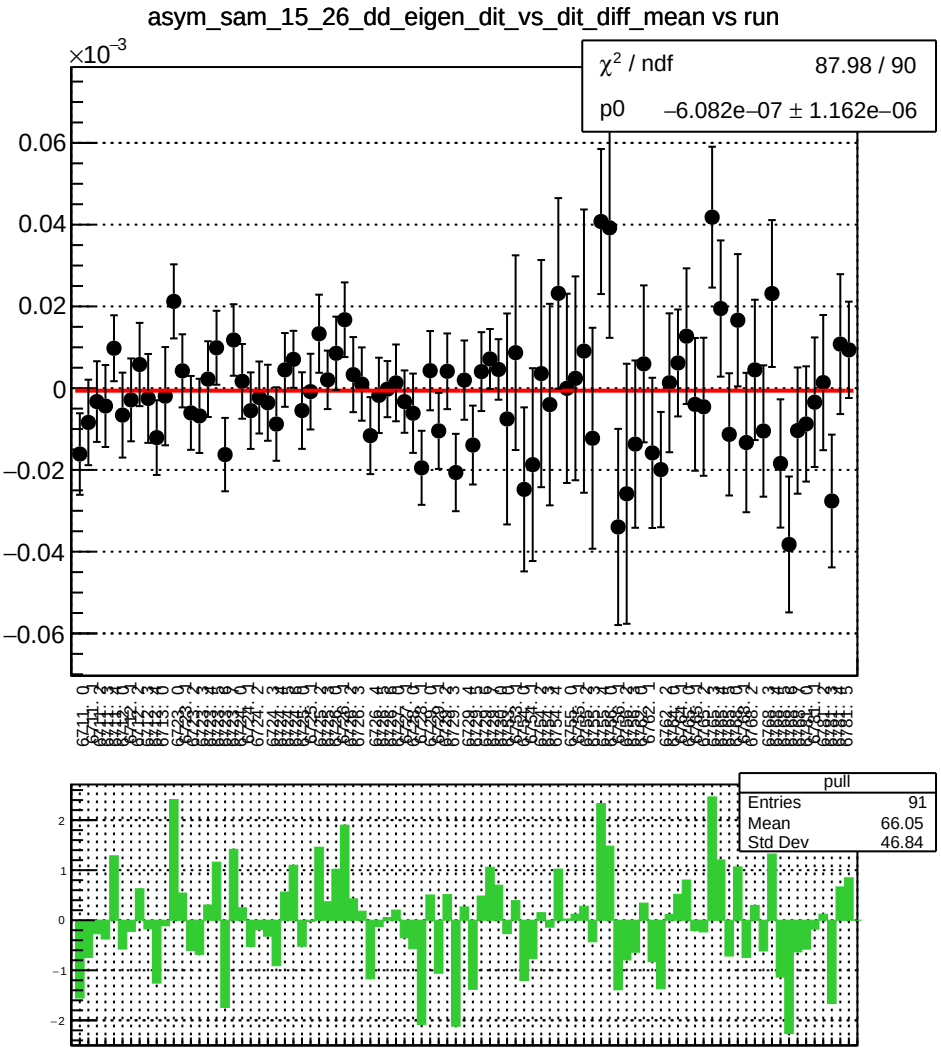

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 131.6 / 90
p0 0.01526 ± 0.04613
pull
Entries 91
Mean 96.16
Std Dev 0

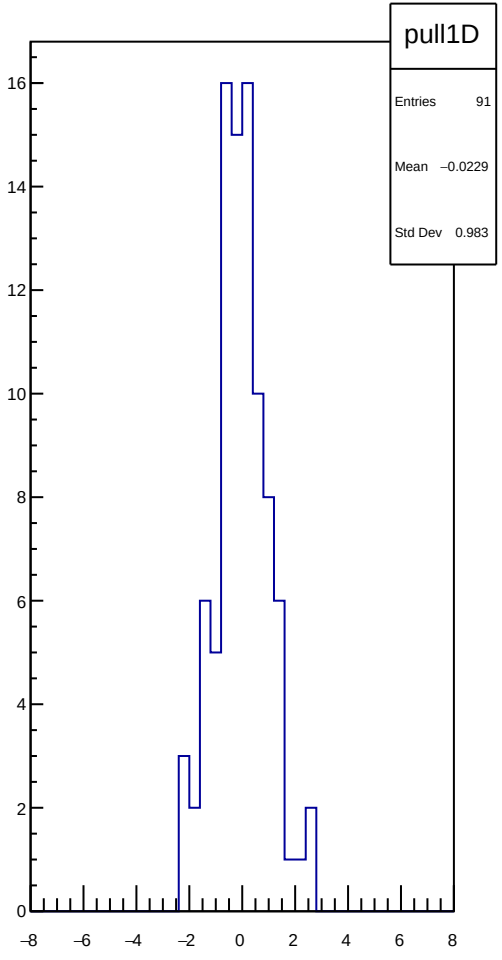

pull1D
Entries 91
Mean −0.06064
Std Dev 1.201

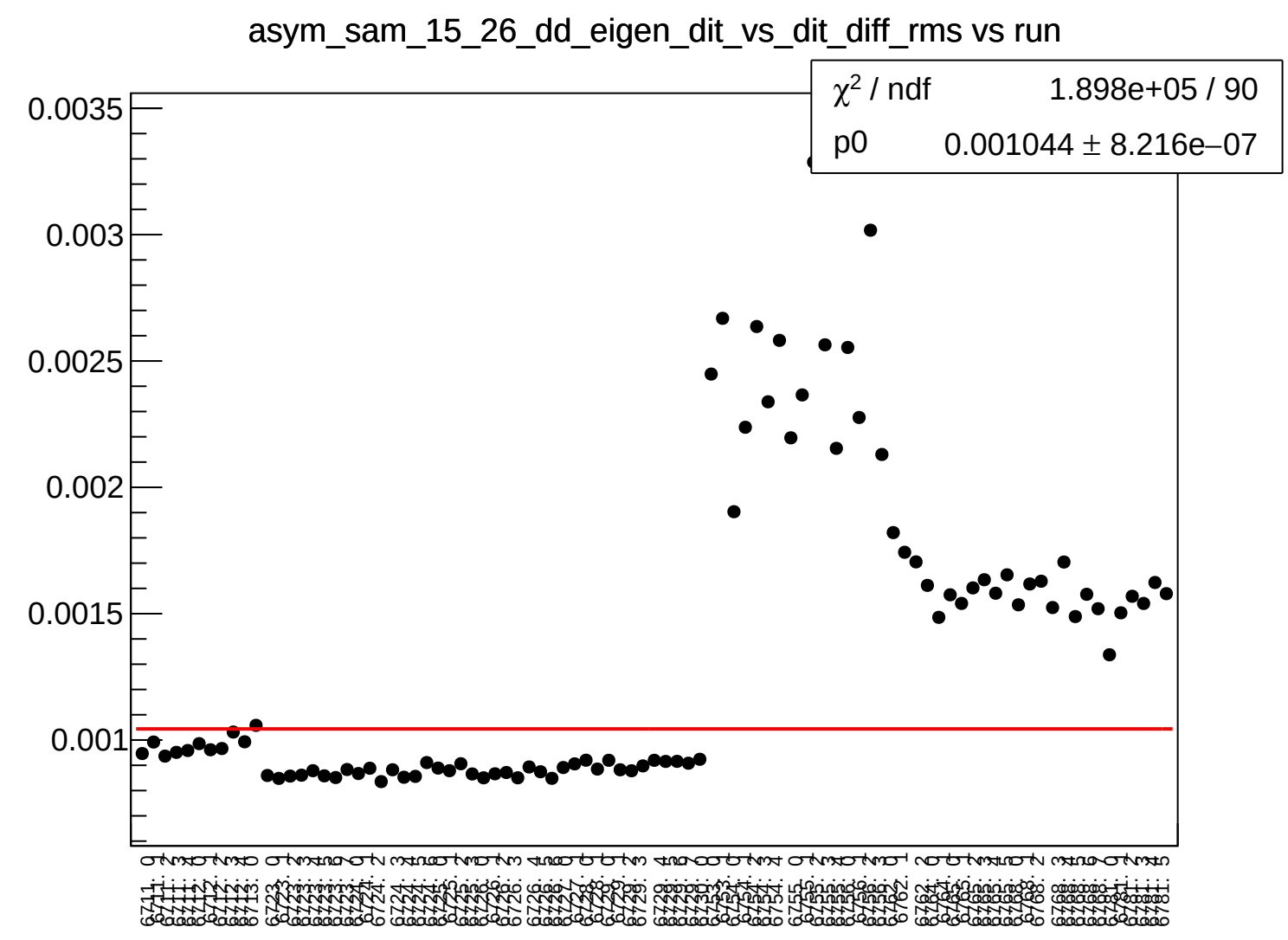

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.532e+05 / 90
p0 37.91 ± 0.03262
240
220
200
180
160
140
120
100
80
60
40
20

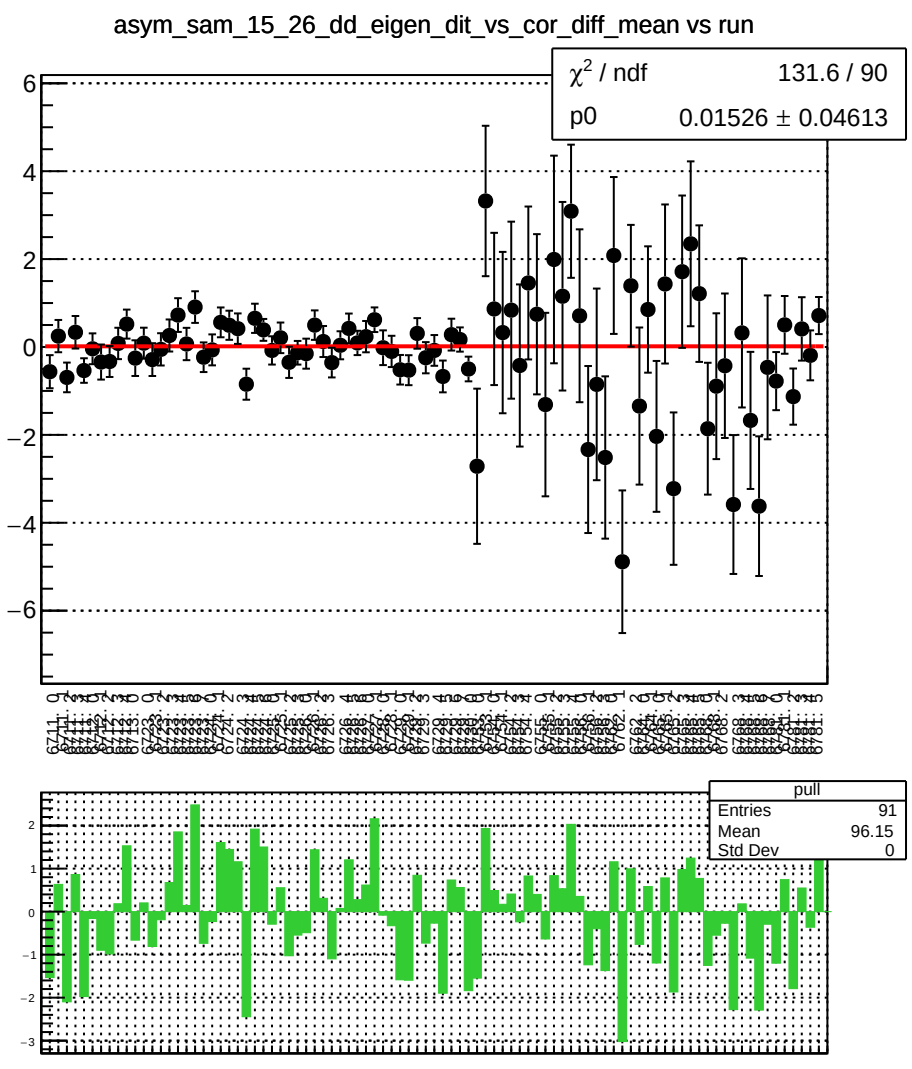

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 131.6 / 90
p0 0.01526 ± 0.04613
pull
Entries 91
Mean 96.16
Std Dev 0
pull1D
Entries 91
Mean −0.06064
Std Dev 1.201

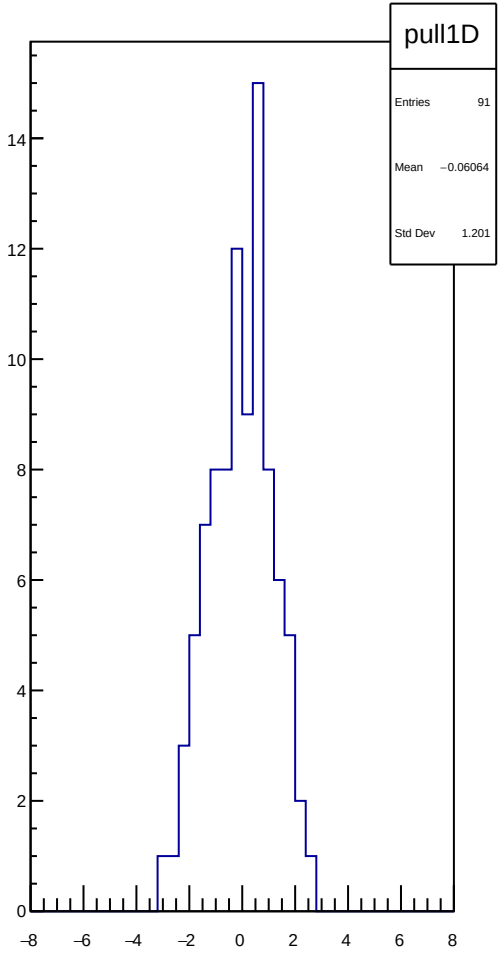

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.532e+05 / 90
p0 37.91 ± 0.03262
240
220
200
180
160
140
120
100
80
60
40
20

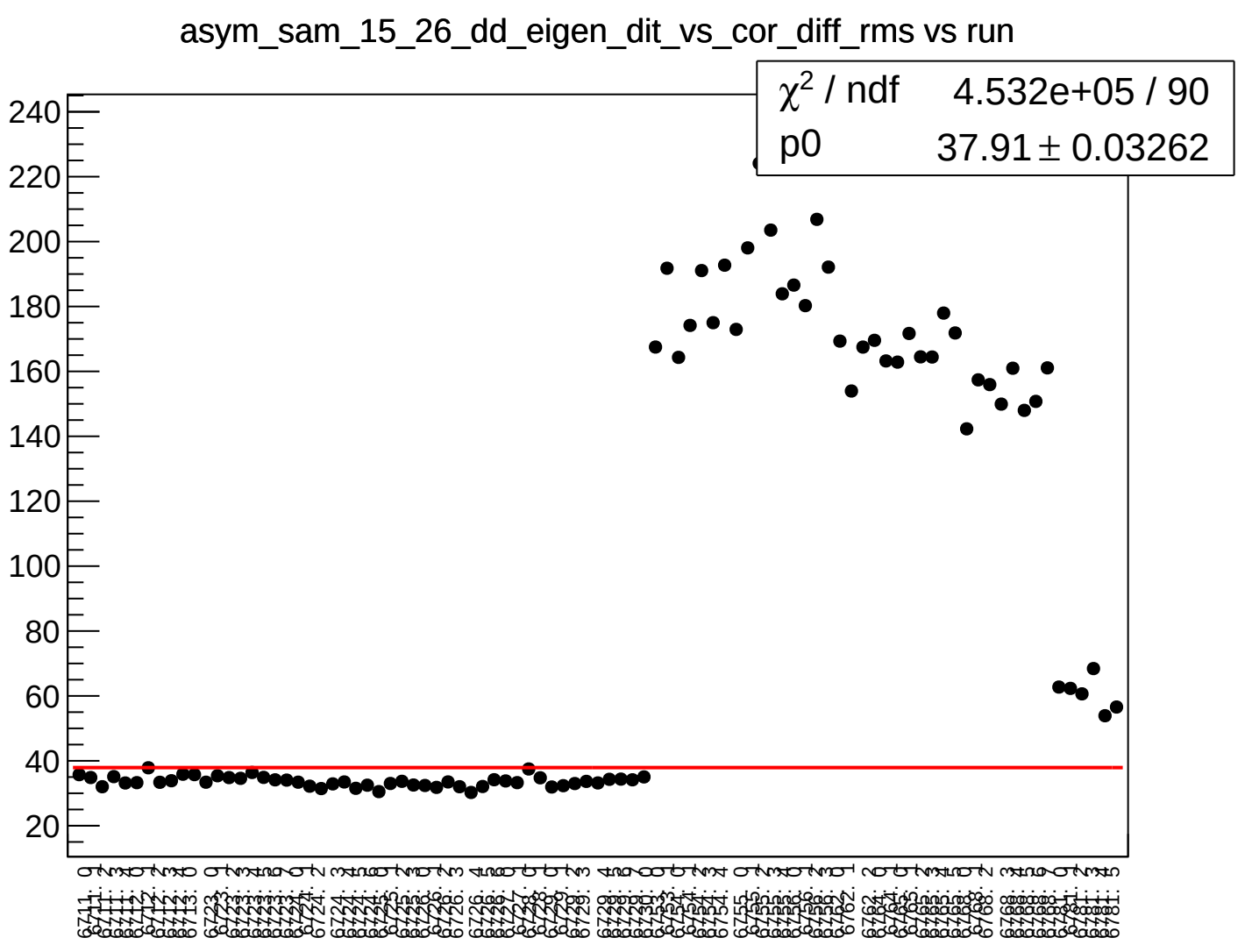

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.98 / 90
p0 −6.082e−07 ± 1.162e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 91
Mean 66.05
Std Dev 46.84
2
1
0
−1
−2


pull1D
Entries 91
Mean −0.0229
Std Dev 0.983
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

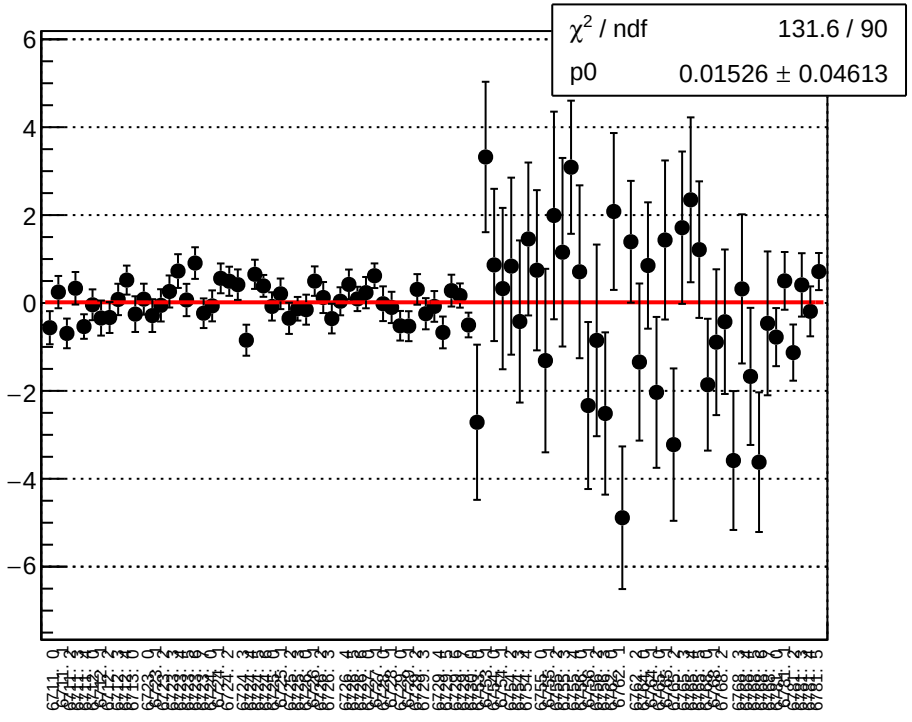

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.898e+05 / 90
p0 0.001044 ± 8.216e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001

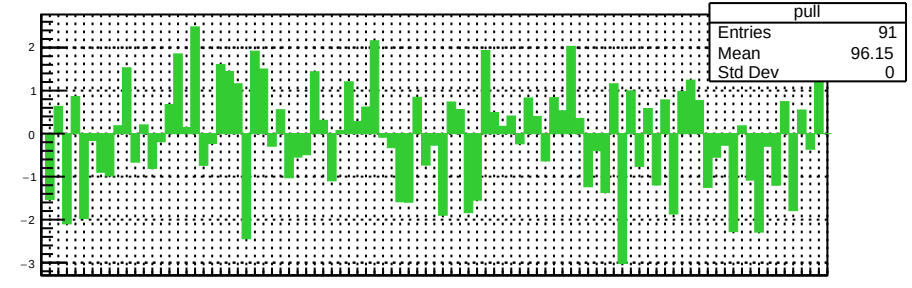

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 131.6 / 90
p0 0.01526 ± 0.04613
pull
Entries 91
Mean 96.15
Std Dev 0

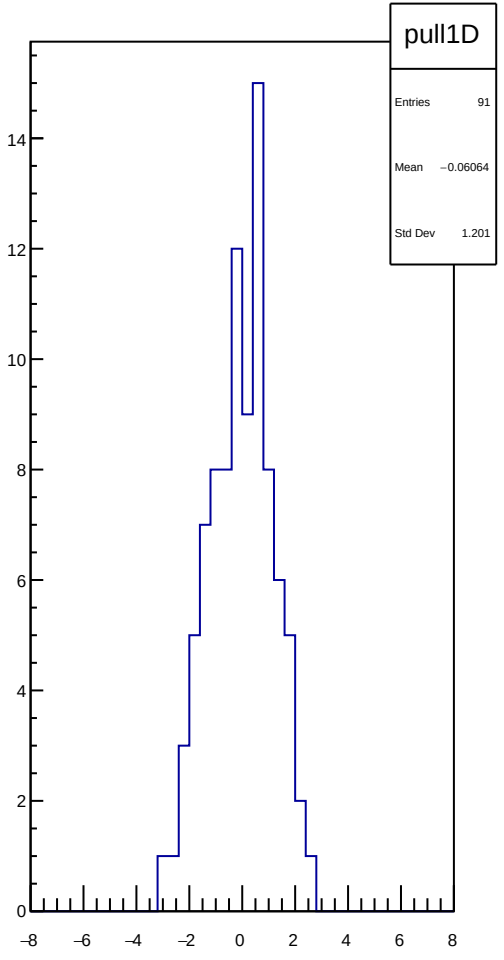

pull1D
Entries 91
Mean −0.06064
Std Dev 1.201

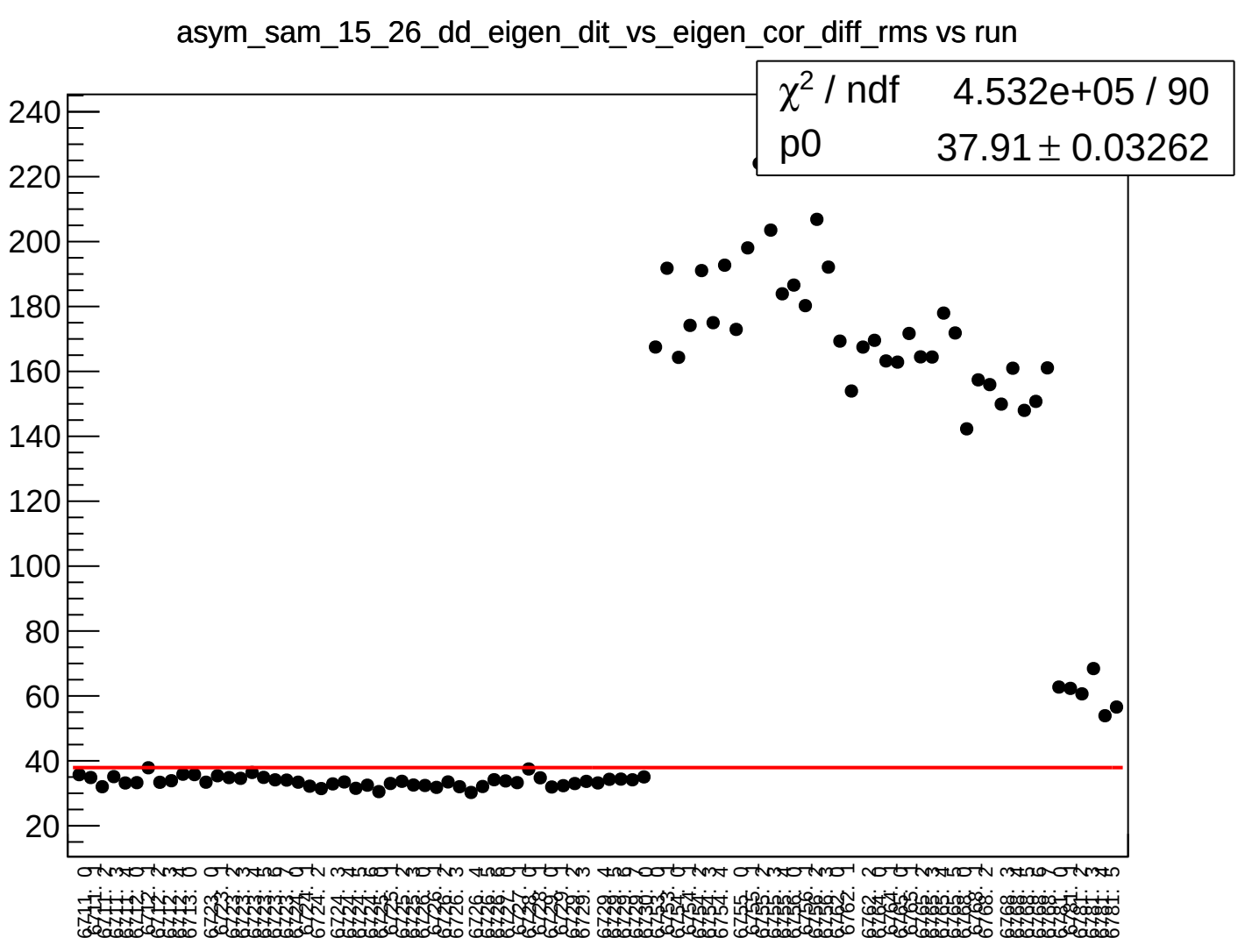

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.532e+05 / 90
p0 37.91 ± 0.03262
240
220
200
180
160
140
120
100
80
60
40
20

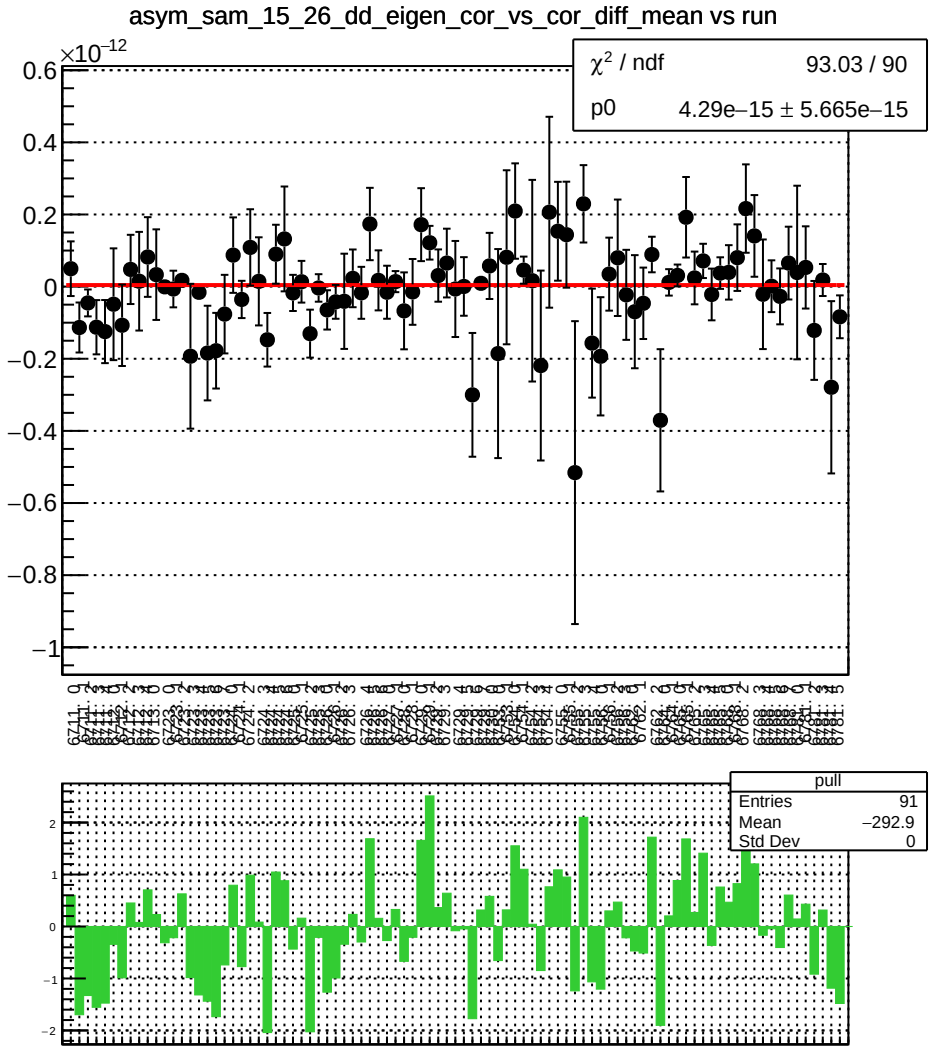
asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

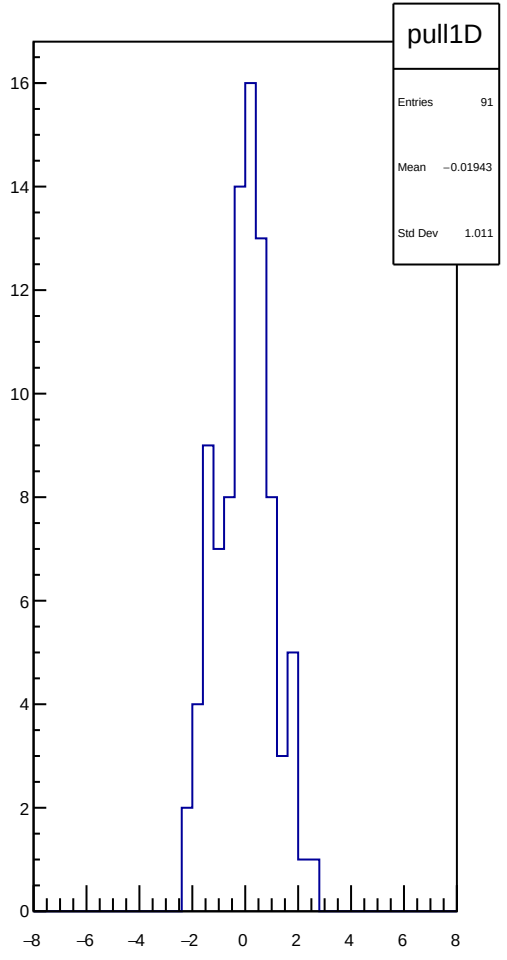


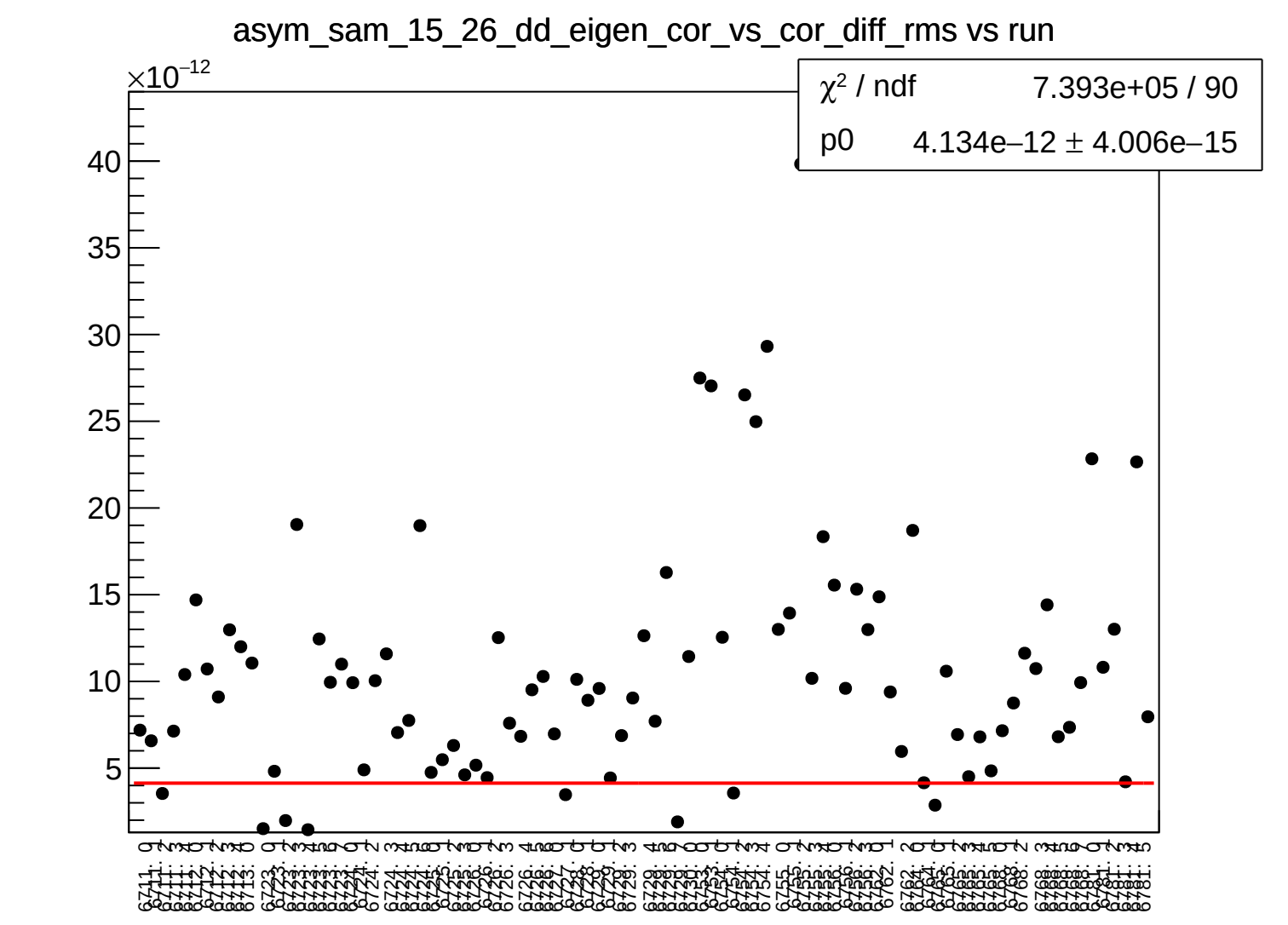


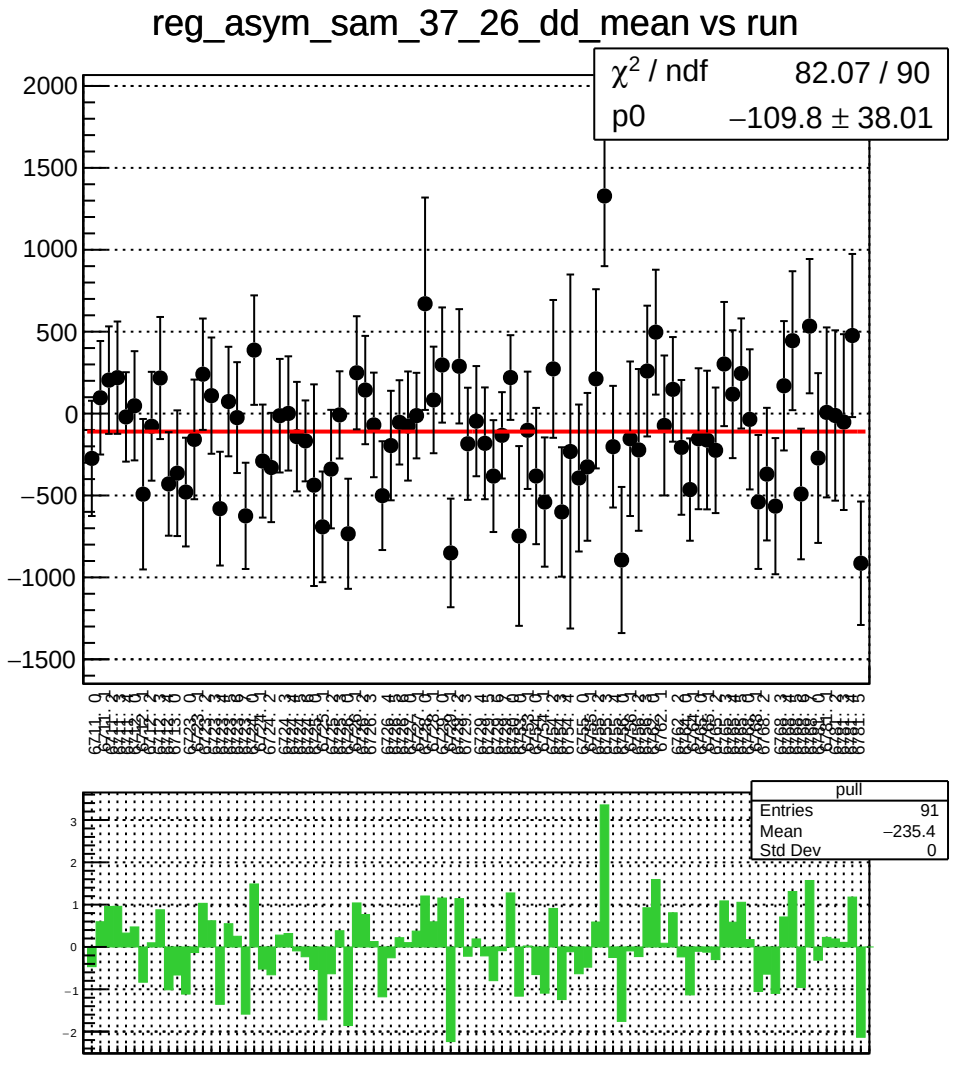


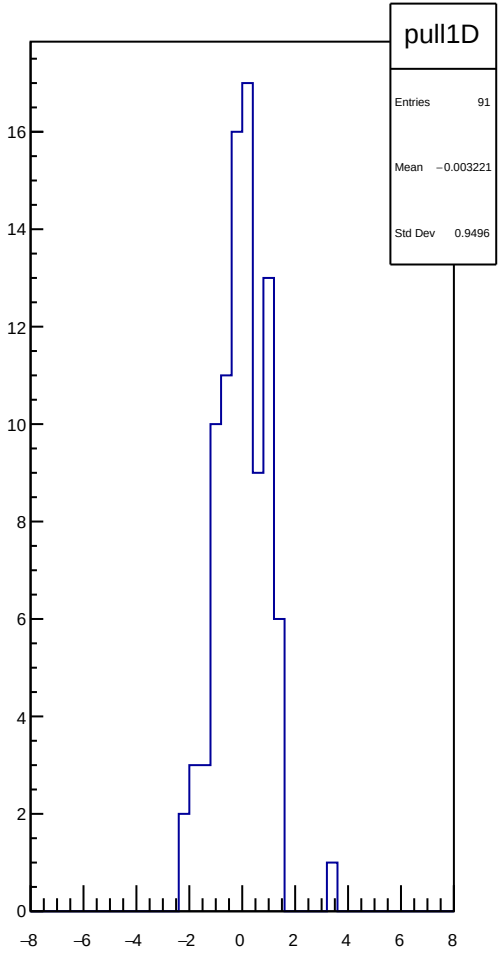

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.532e+05 / 90
p0 37.91 ± 0.03262
240
220
200
180
160
140
120
100
80
60
40
20

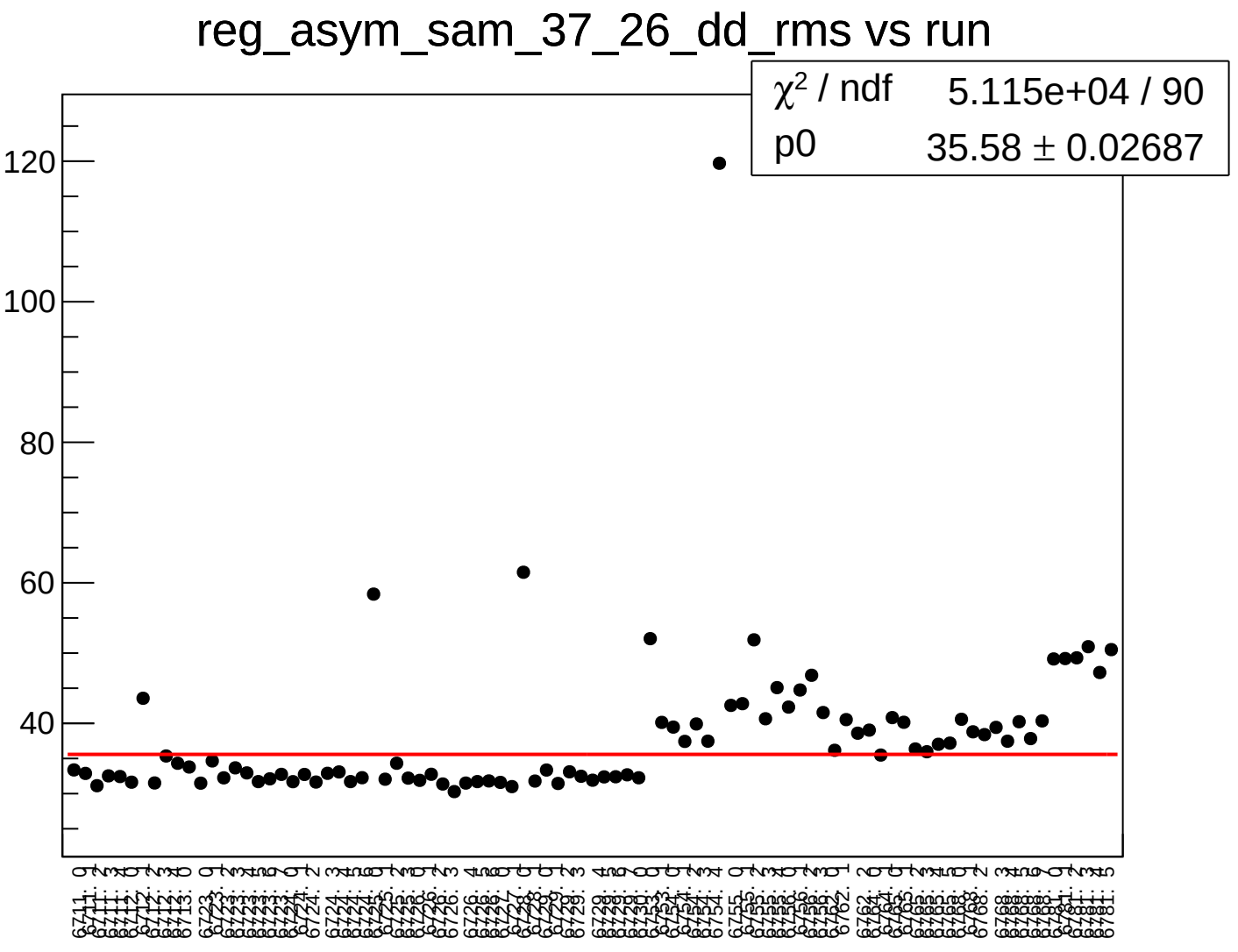

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.03 / 90
p0 4.29e−15 ± 5.665e−15
pull
Entries 91
Mean −292.9
Std Dev 0

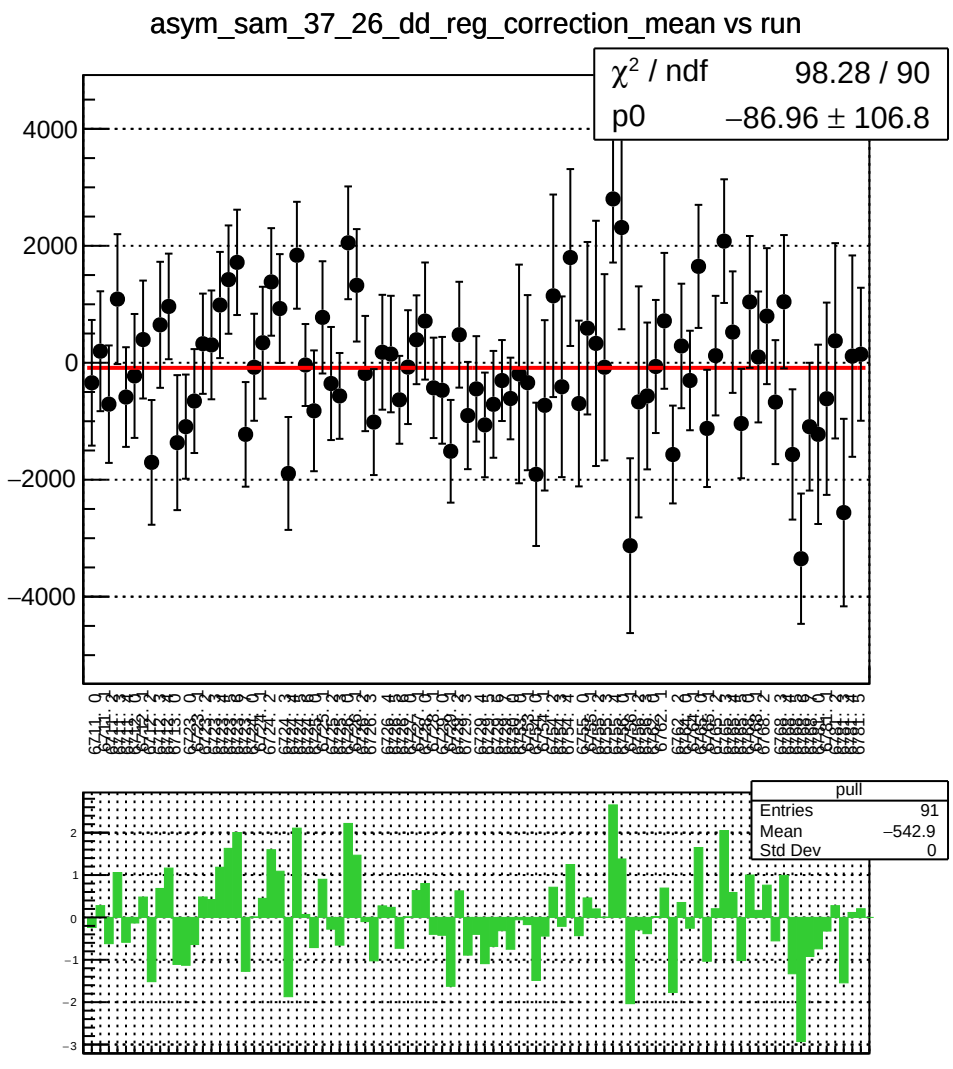

pull1D
Entries 91
Mean −0.01943
Std Dev 1.011

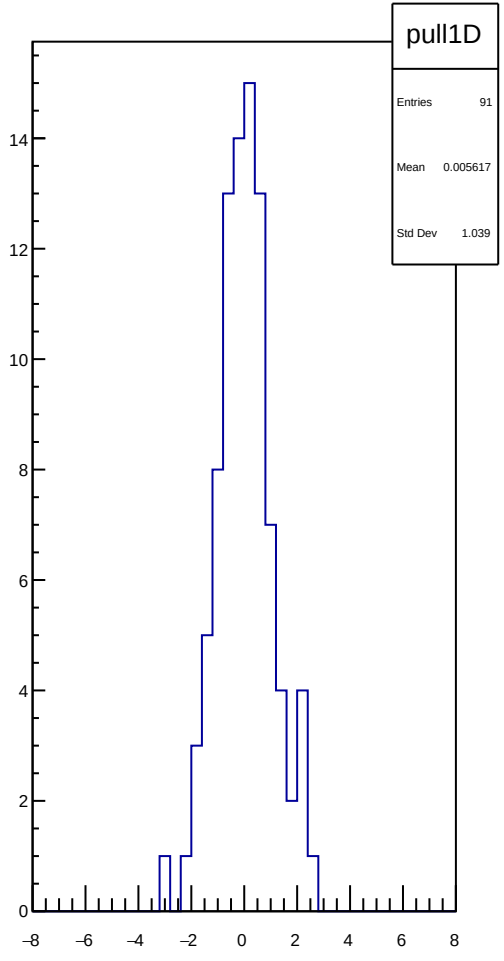

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.393e+05 / 90
p0 4.134e−12 ± 4.006e−15
40
35
30
25
20
15
10
5

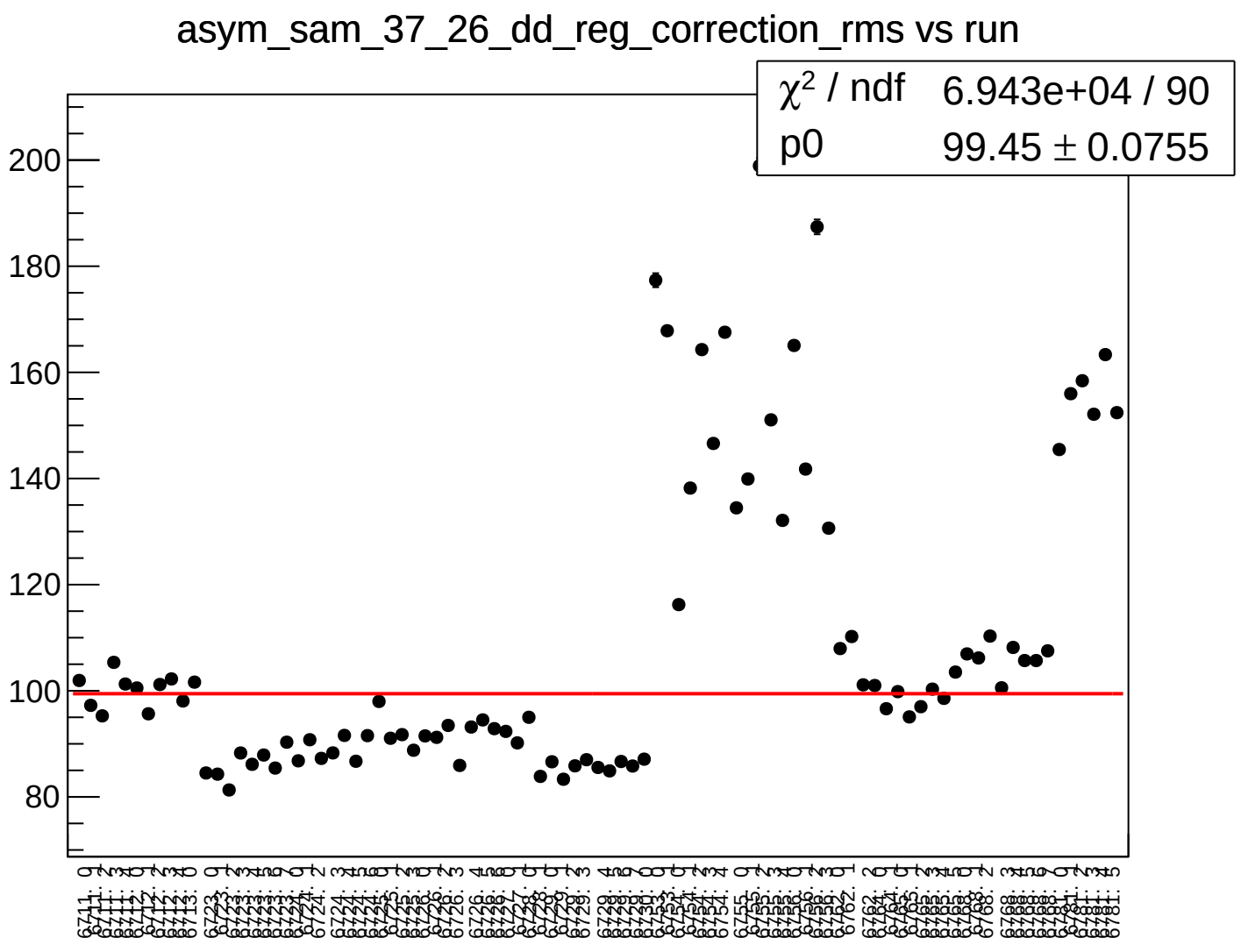

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 82.07 / 90
p0 −109.8 ± 38.01
pull
Entries 91
Mean −235.4
Std Dev 0

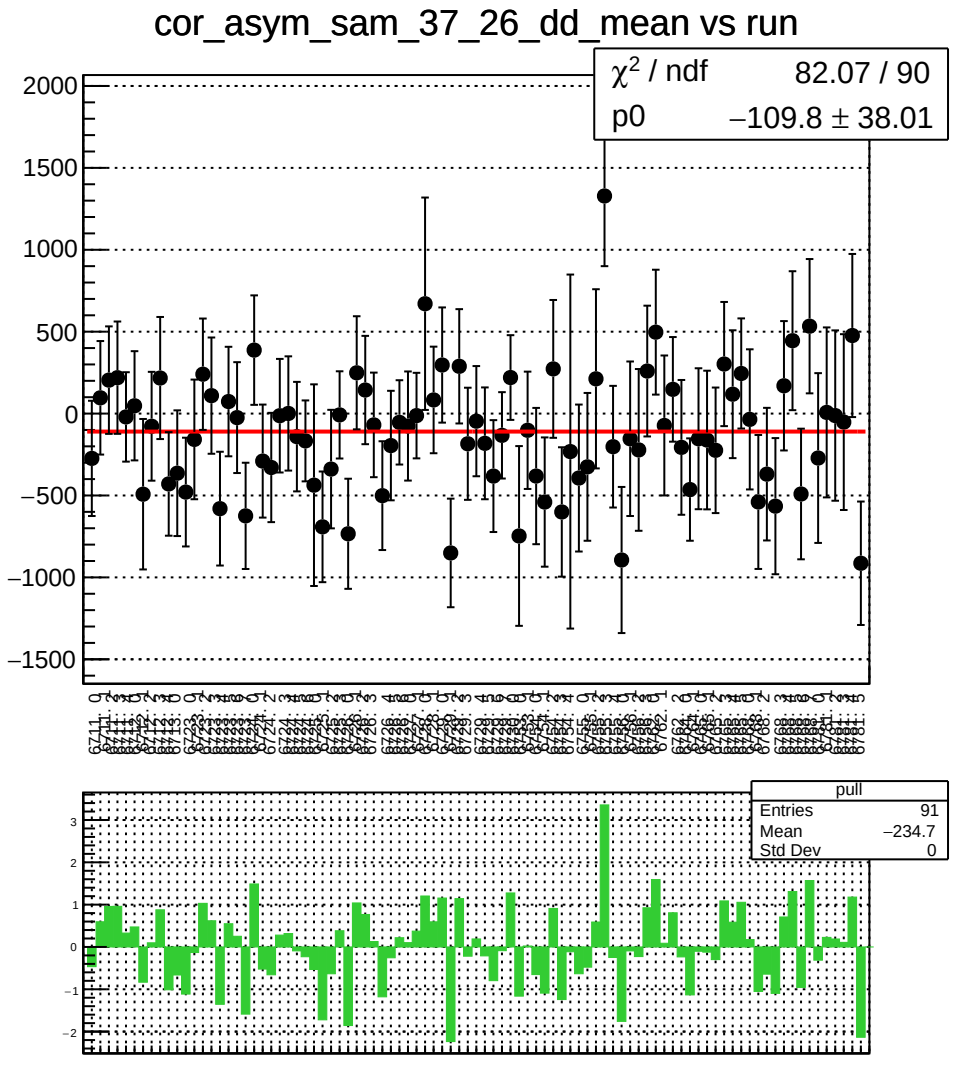

pull1D
Entries 91
Mean −0.003221
Std Dev 0.9496

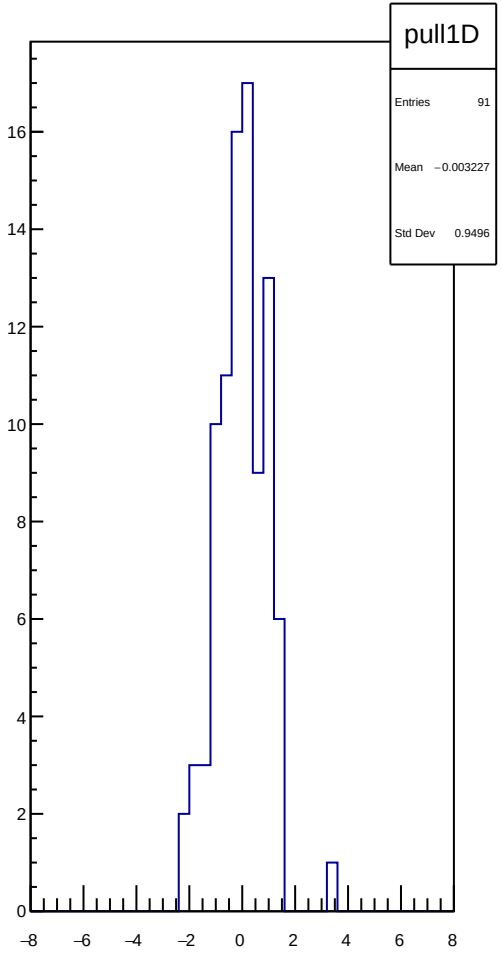

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 5.115e+04 / 90
p0 35.58 ± 0.02687
120
100
80
60
40

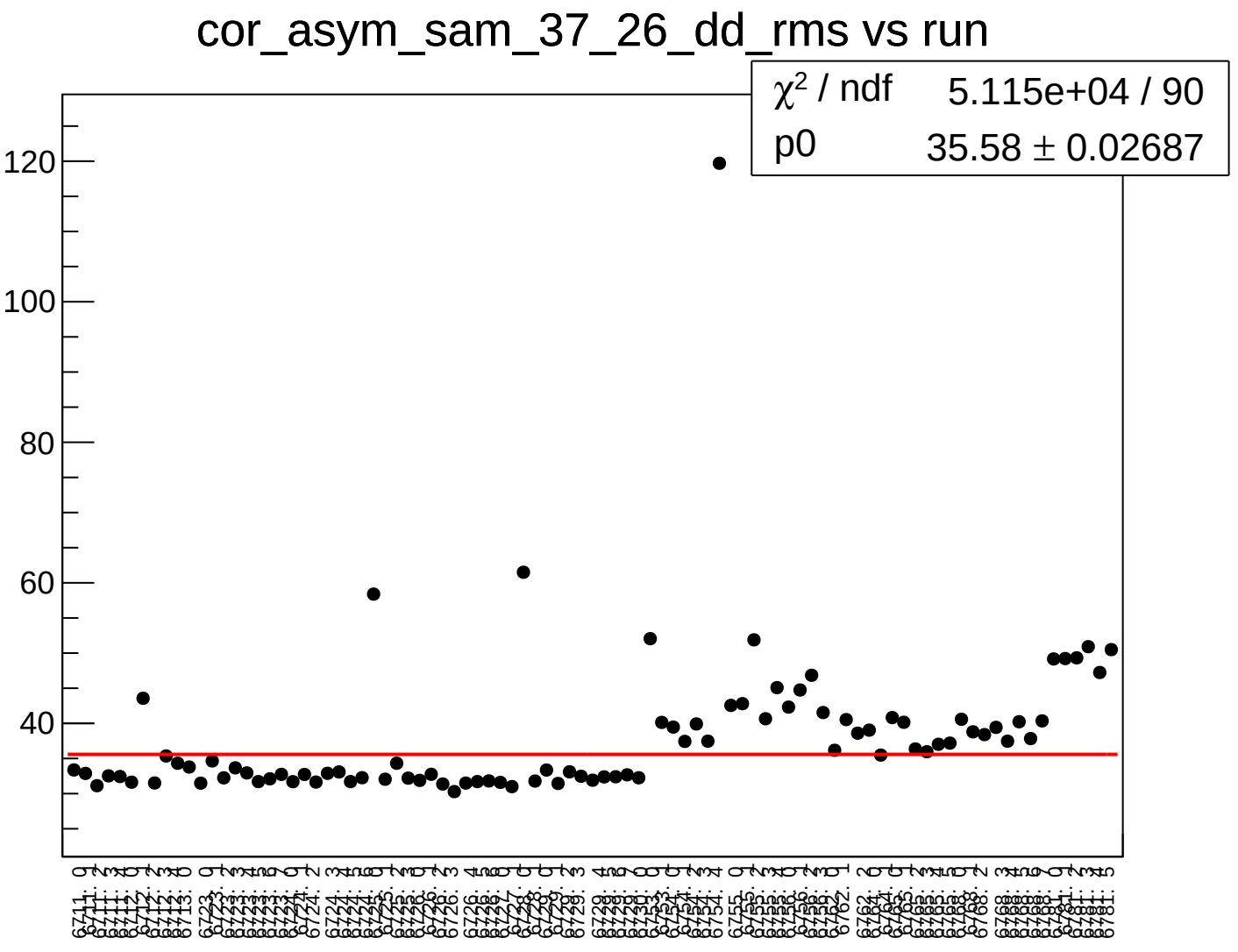

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 98.28 / 90
p0 −86.96 ± 106.8
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −542.9
Std Dev 0
2
1
0
−1
−2
−3

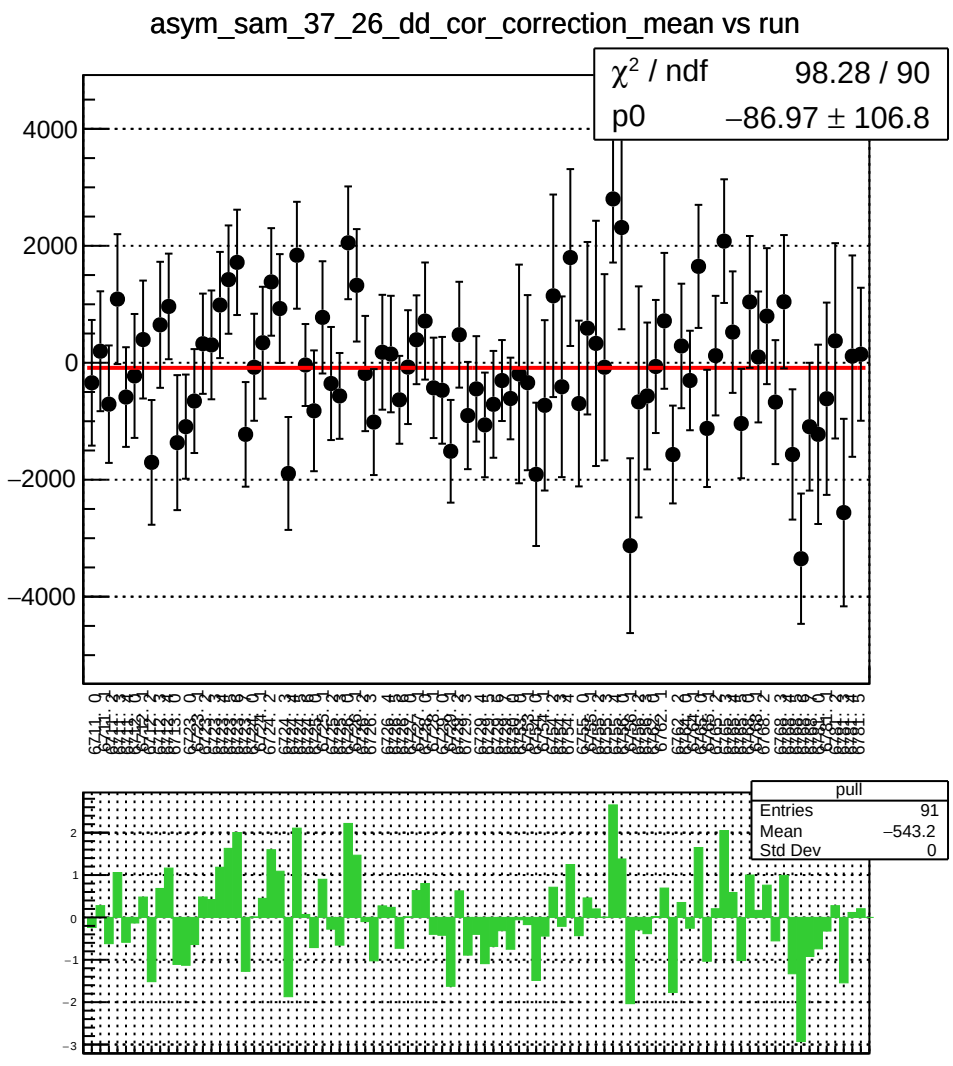

pull1D
Entries 91
Mean 0.005617
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

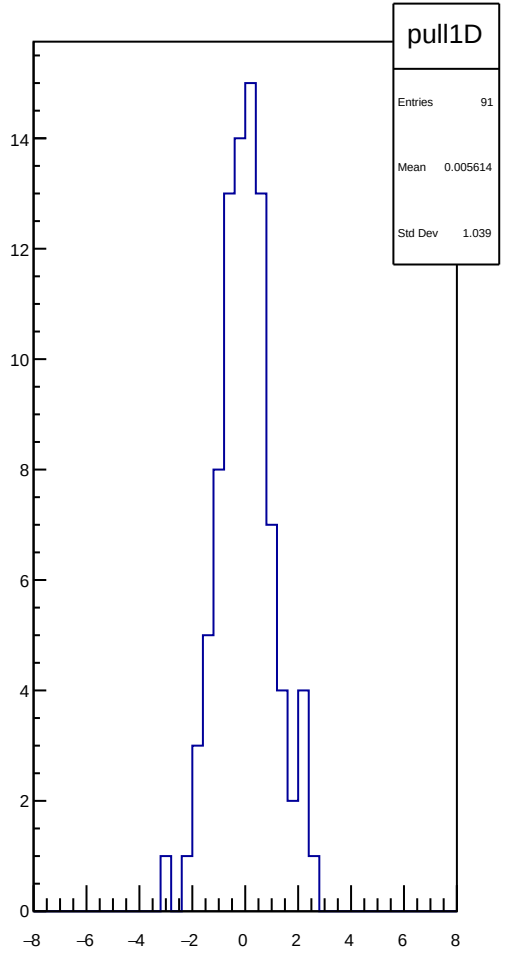

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 6.943e+04 / 90
p0 99.45 ± 0.0755
200
180
160
140
120
100
80

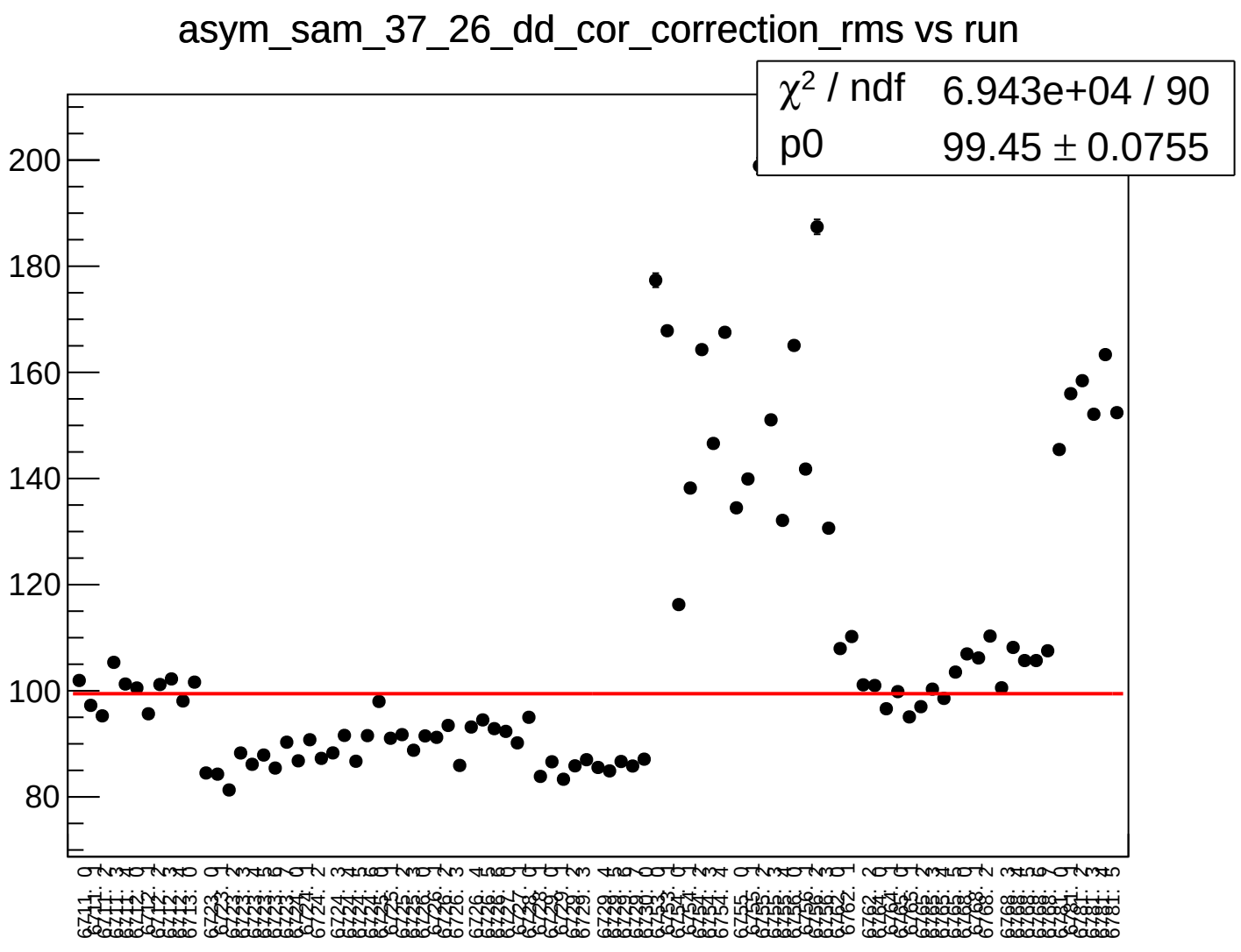

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 82.07 / 90
p0 −109.8 ± 38.01
pull
Entries 91
Mean −234.7
Std Dev 0

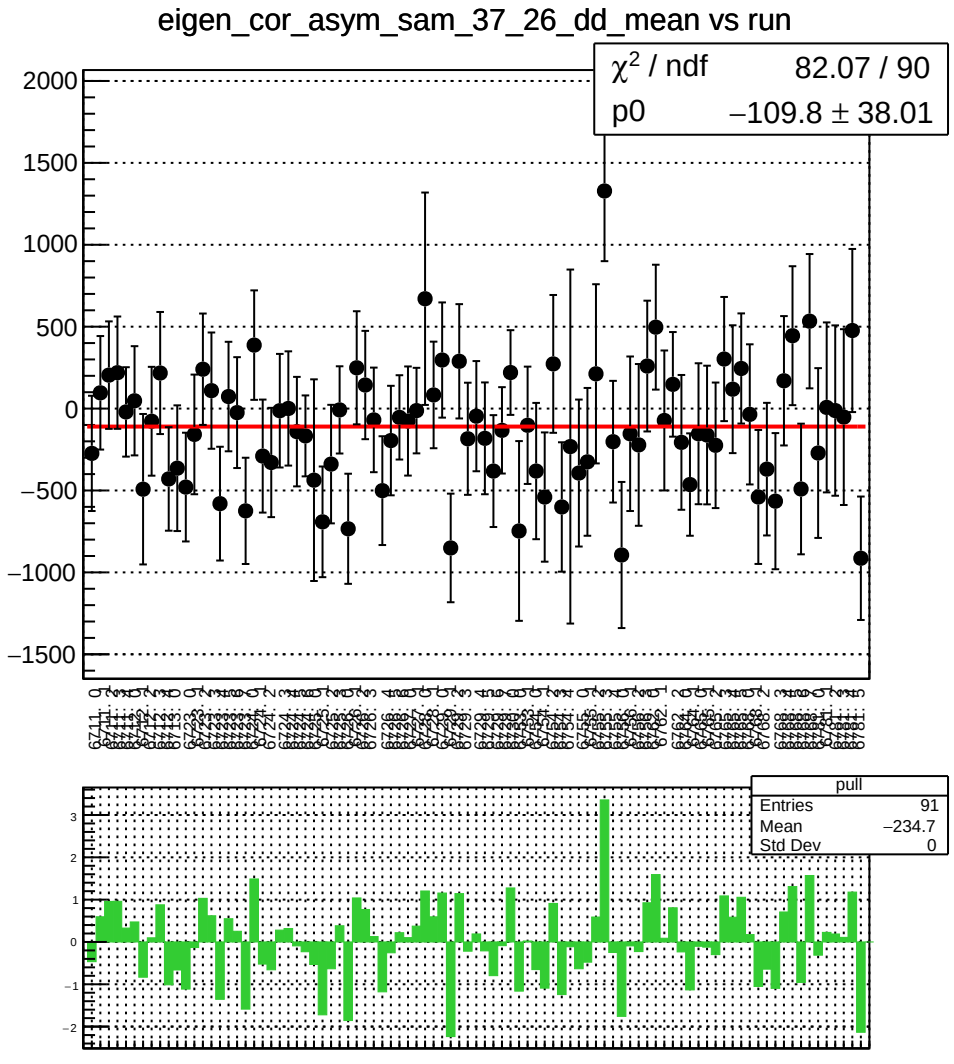

pull1D
Entries 91
Mean −0.003227
Std Dev 0.9496

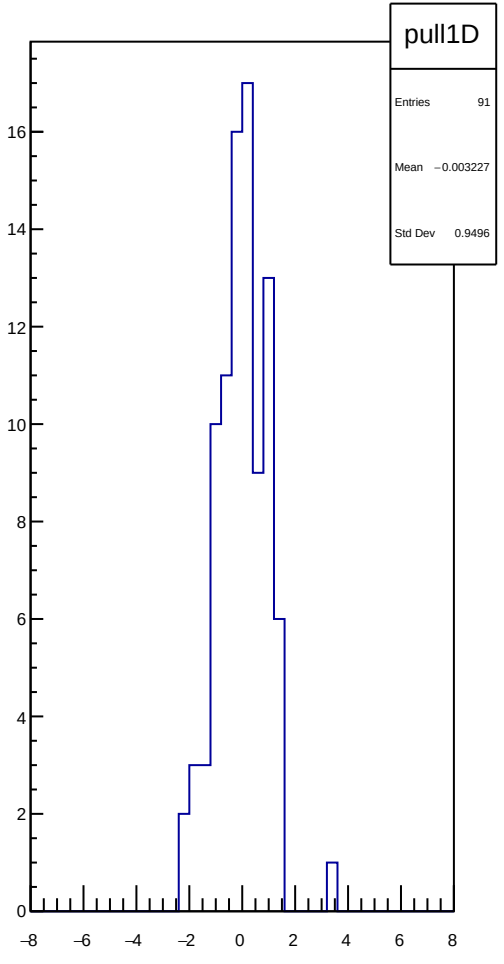

cor_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 5.115e+04 / 90
p0 35.58 ± 0.02687
120
100
80
60
40

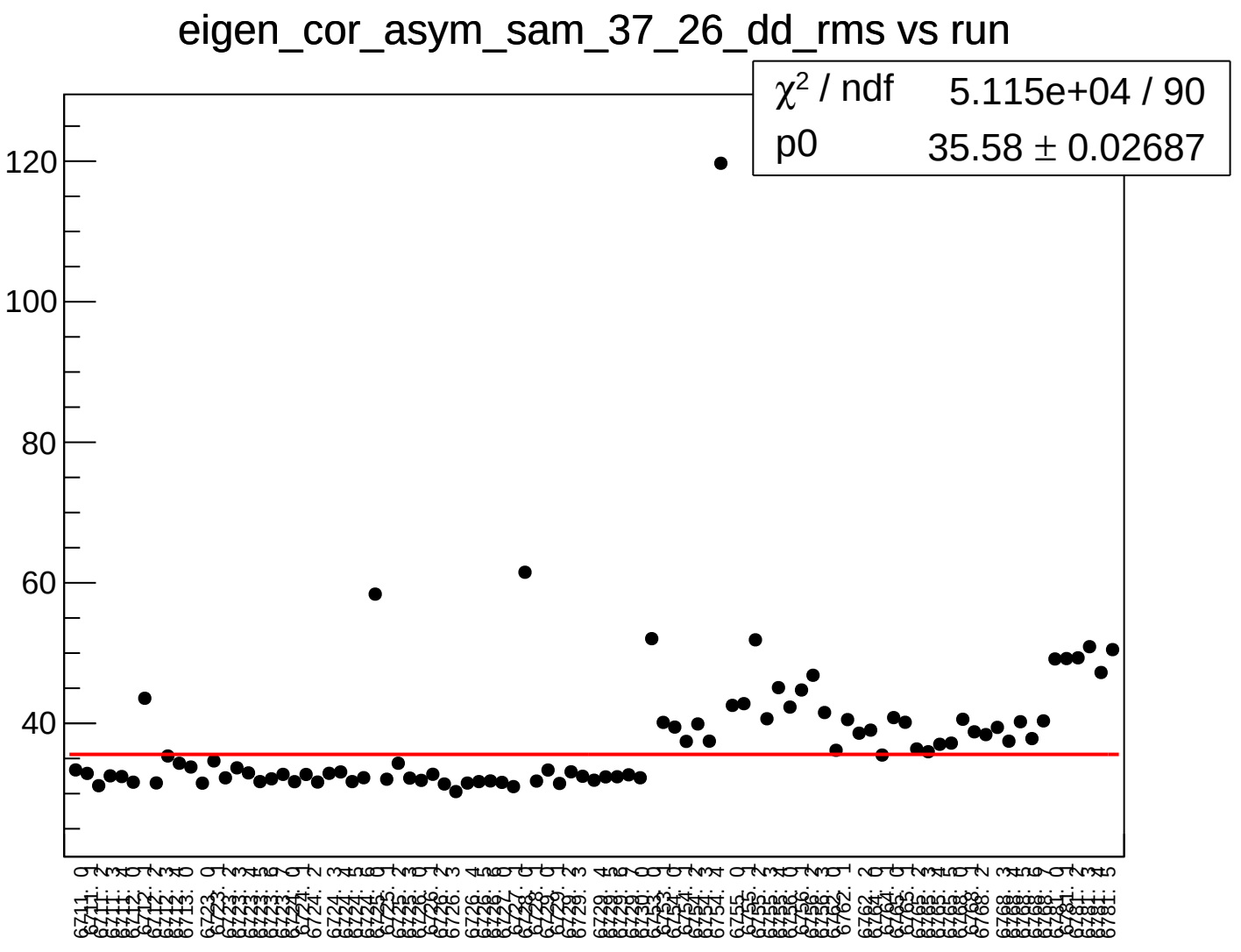

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 98.28 / 90
p0 −86.97 ± 106.8
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −543.2
Std Dev 0
2
1
0
−1
−2
−3

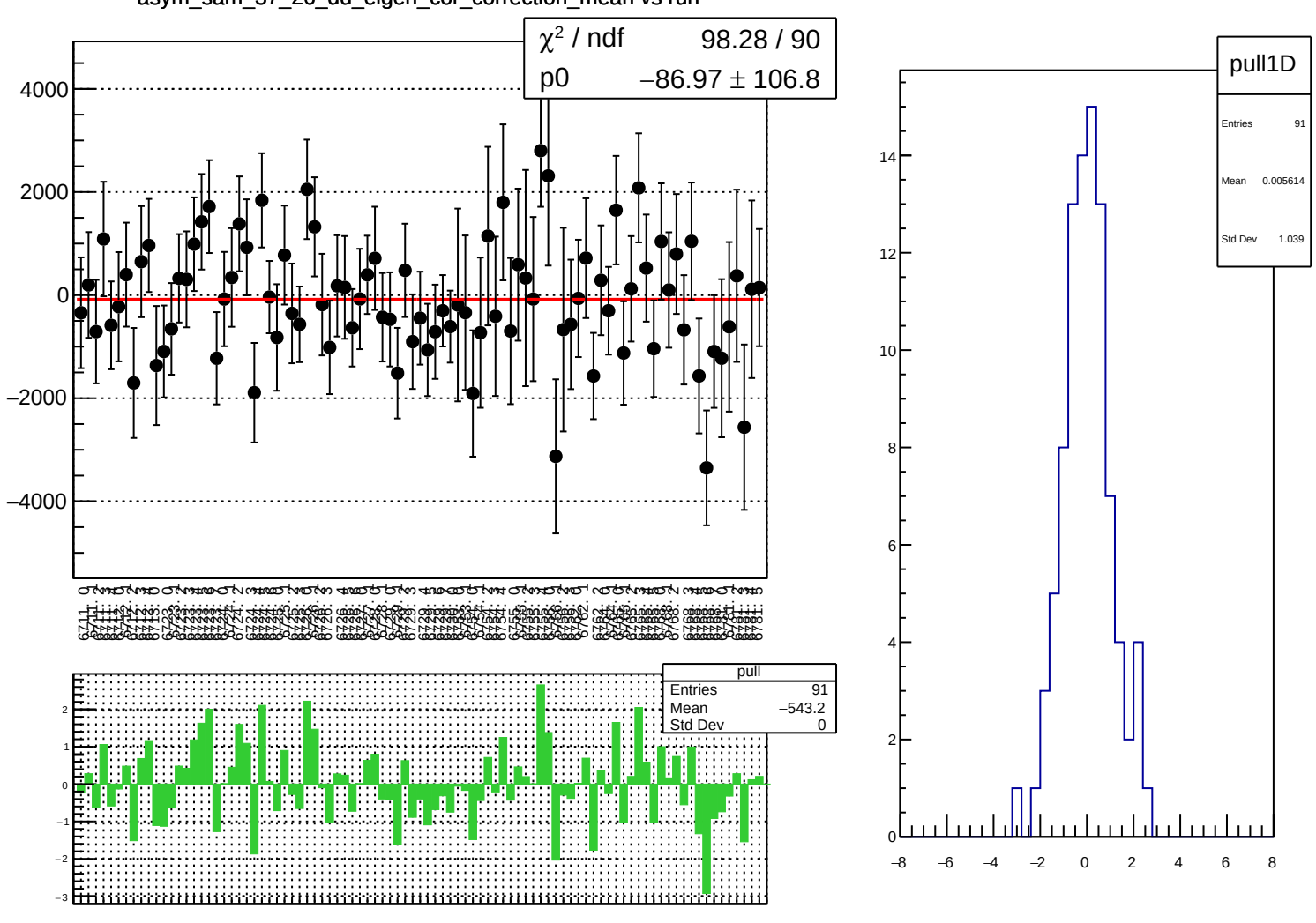

pull1D
Entries 91
Mean 0.005614
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

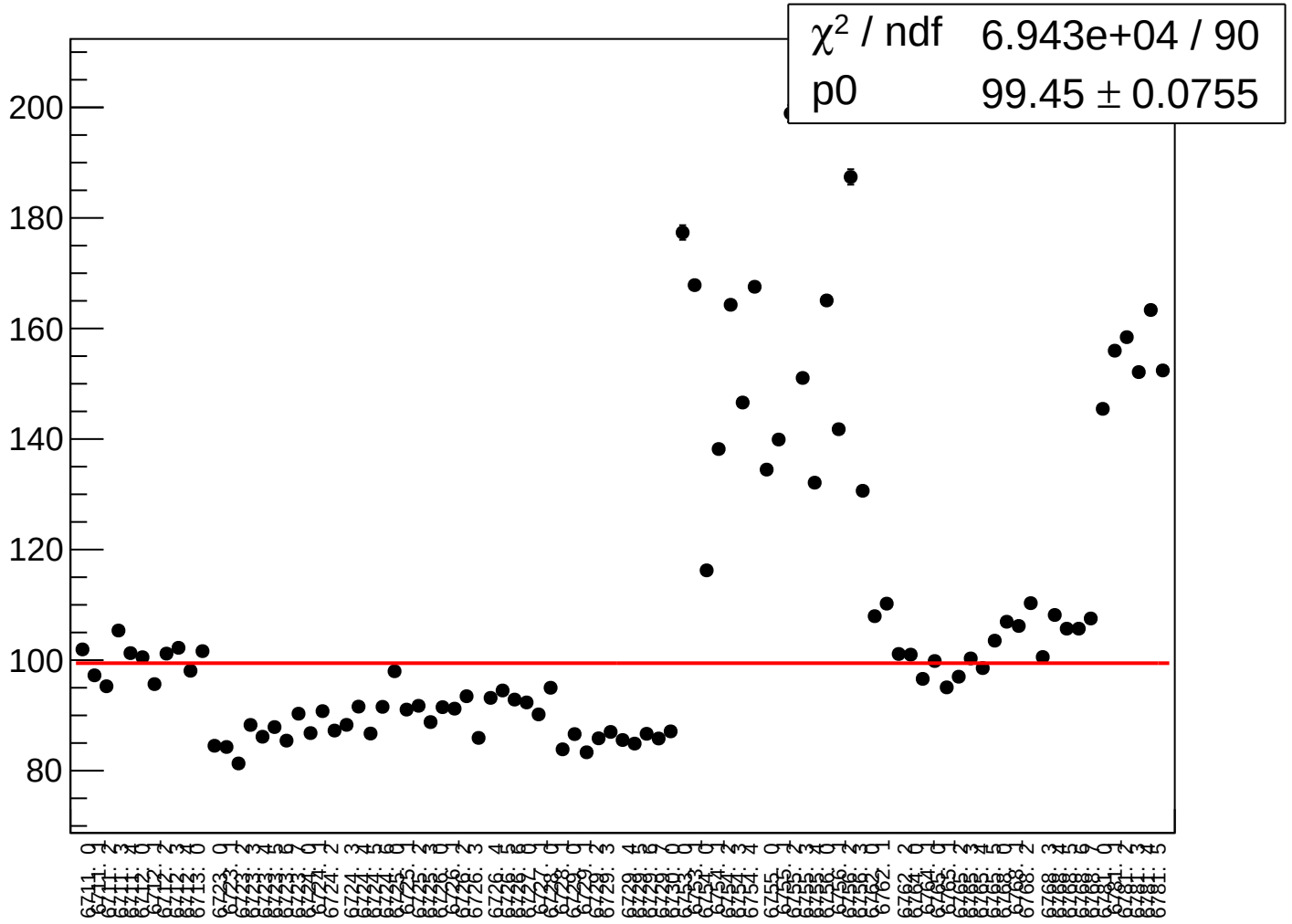

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 6.943e+04 / 90
p0 99.45 ± 0.0755
200
180
160
140
120
100
80

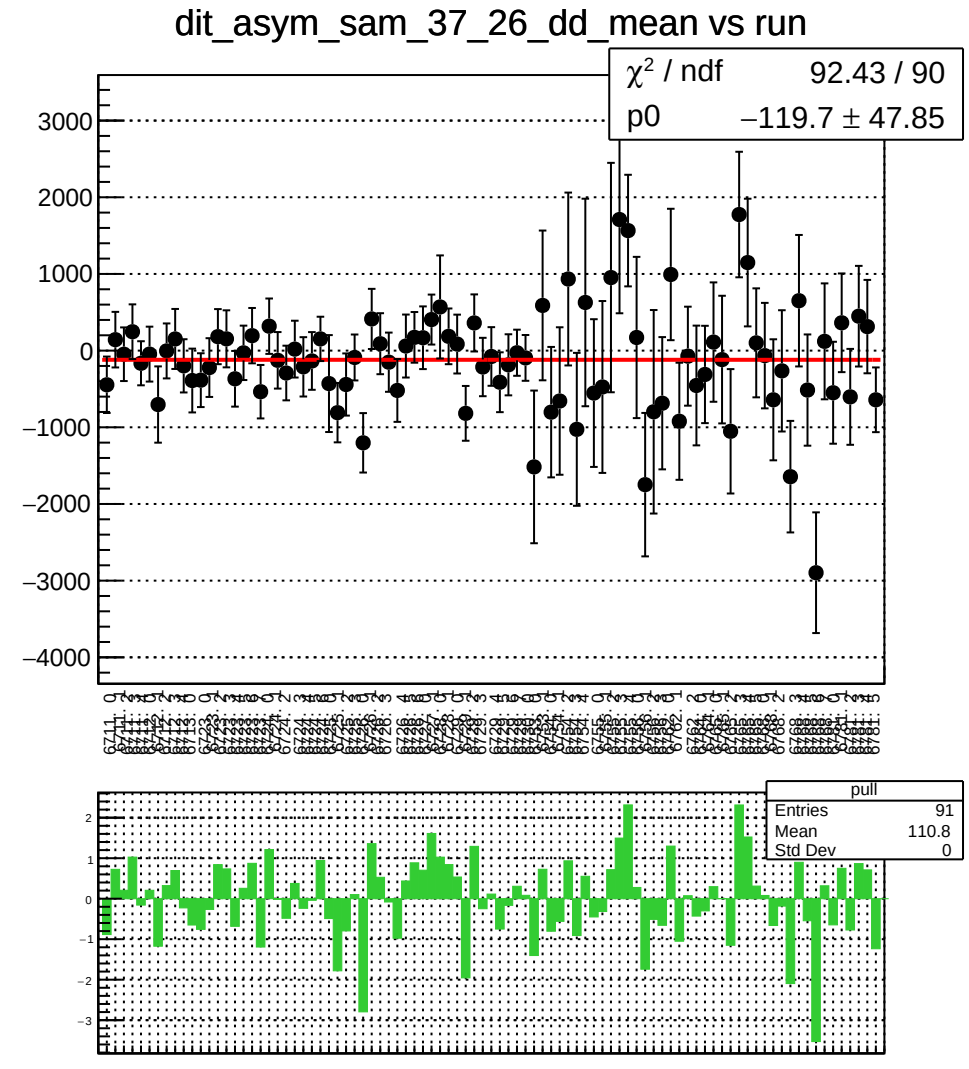

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 82.07 / 90
p0 −109.8 ± 38.01
pull
Entries 91
Mean −234.7
Std Dev 0

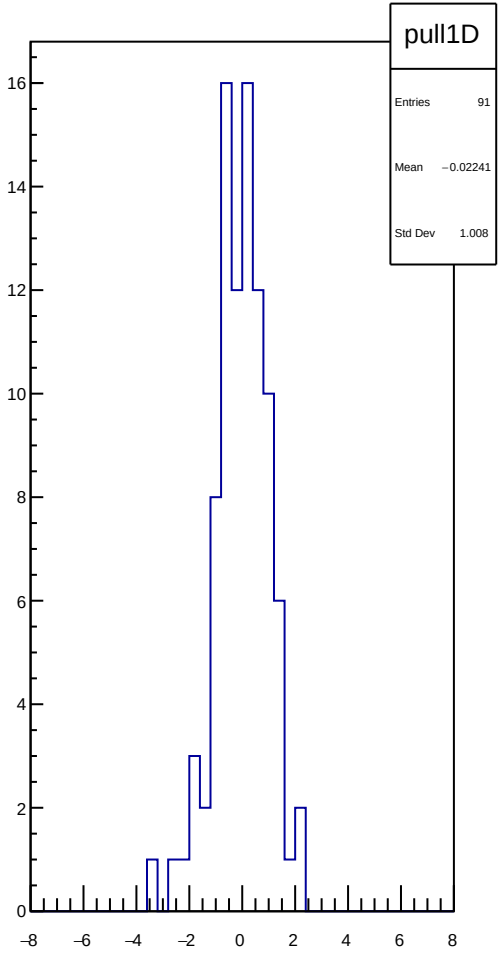

pull1D
Entries 91
Mean −0.003227
Std Dev 0.9496

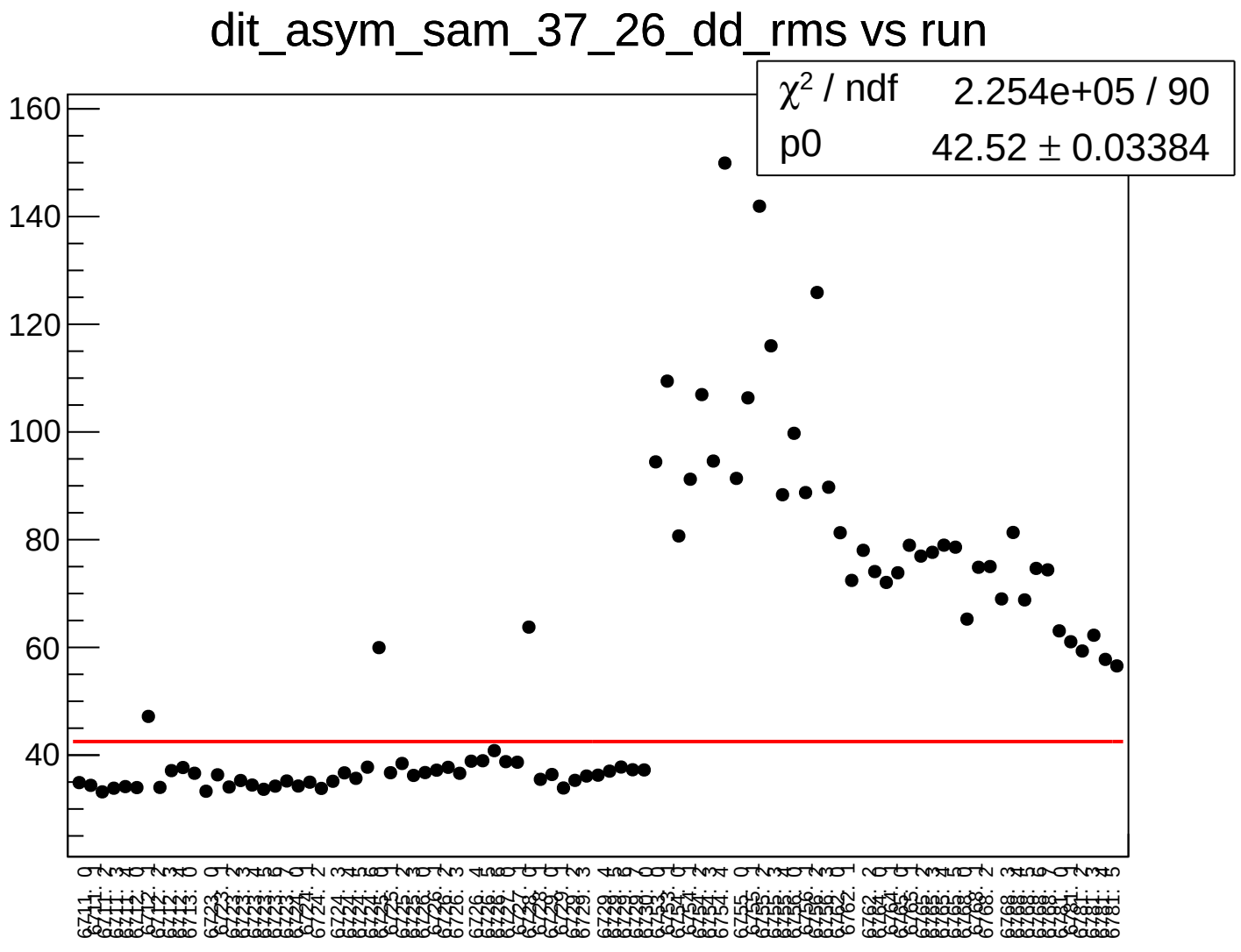

eigen_cor_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 5.115e+04 / 90
p0 35.58 ± 0.02687
120
100
80
60
40

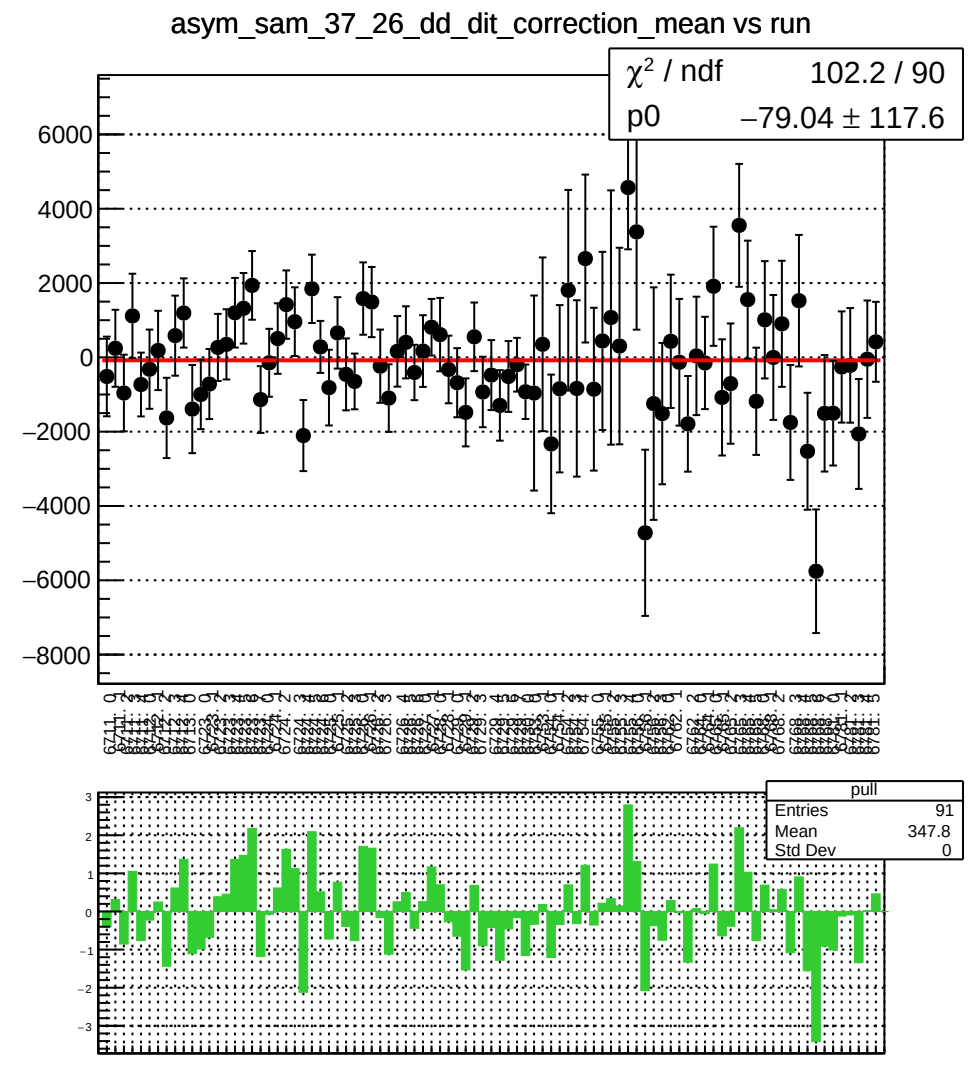

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.28 / 90
p0 −86.97 ± 106.8
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −543.2
Std Dev 0
pull1D
Entries 91
Mean 0.005614
Std Dev 1.039

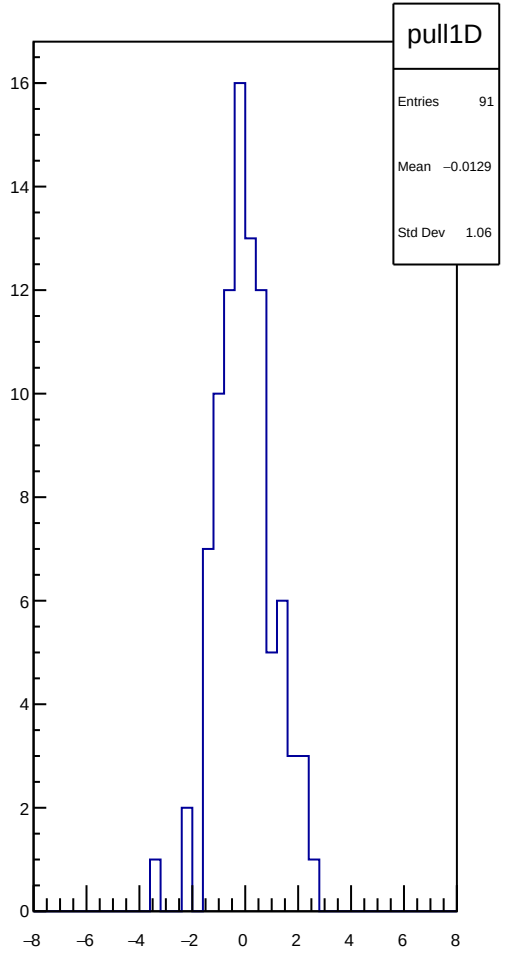

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.943e+04 / 90
p0 99.45 ± 0.0755
200
180
160
140
120
100
80

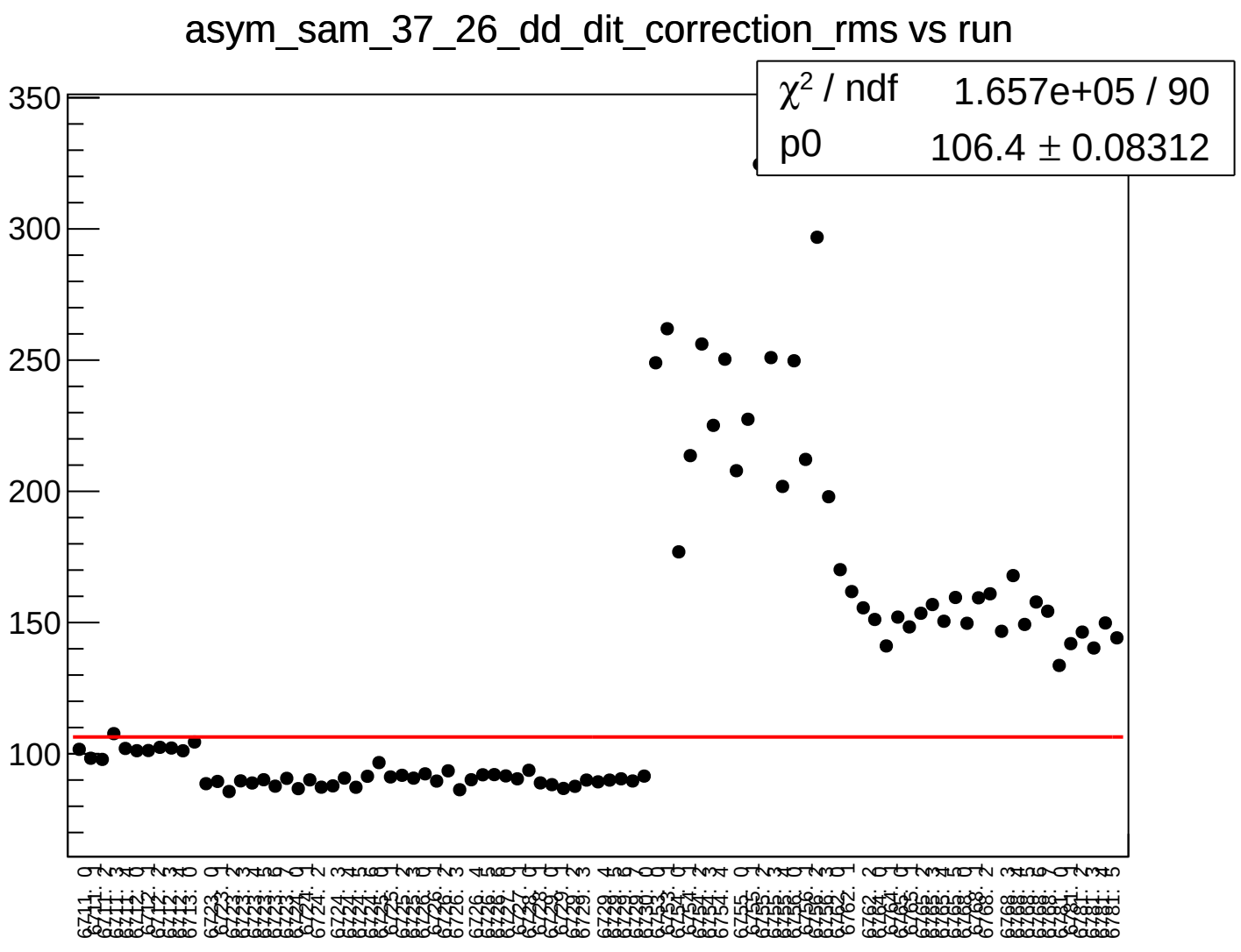

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 92.43 / 90
p0 −119.7 ± 47.85
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 91
Mean 110.8
Std Dev 0
2
1
0
−1
−2
−3

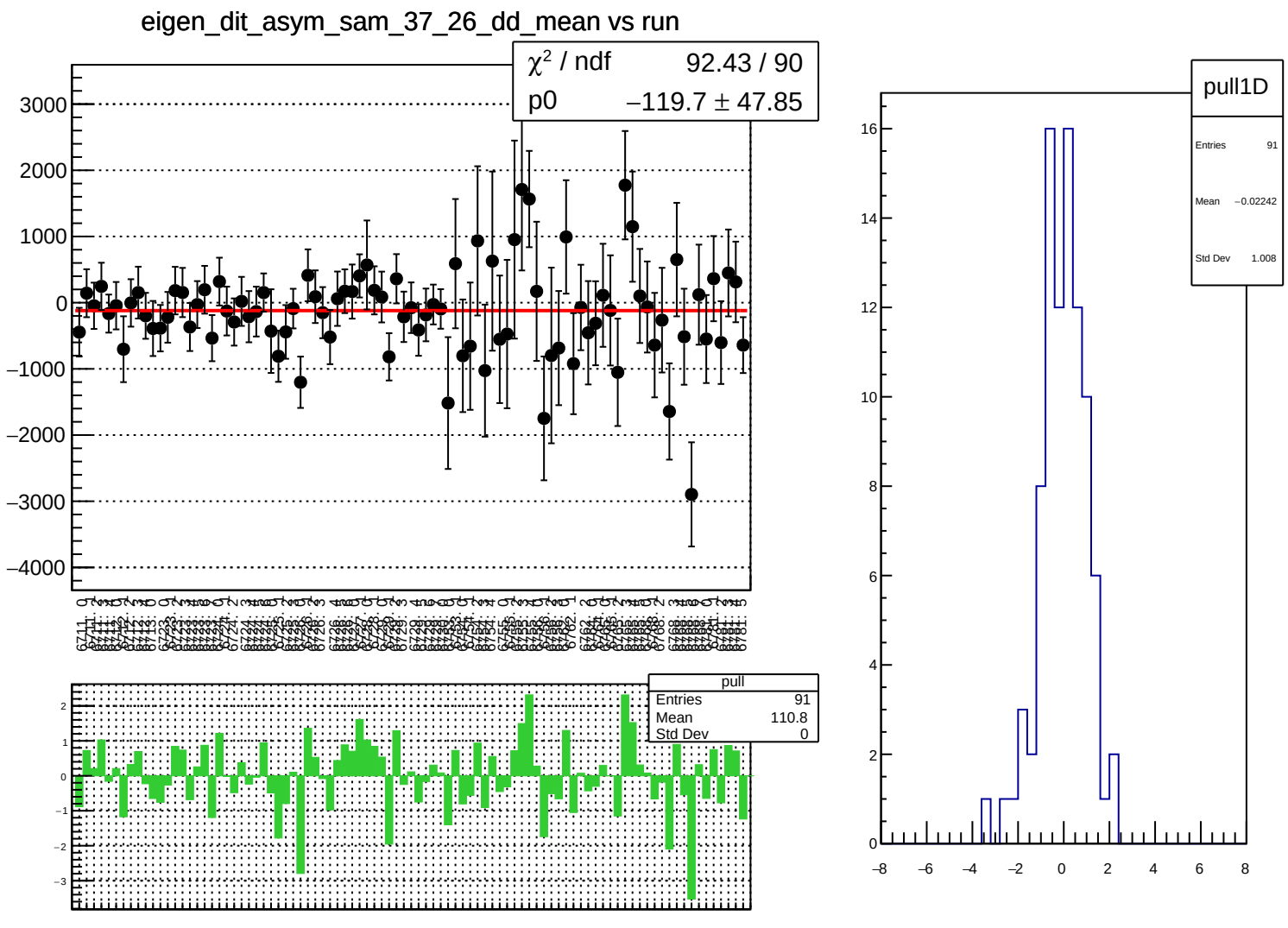

pull1D
Entries 91
Mean −0.02241
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

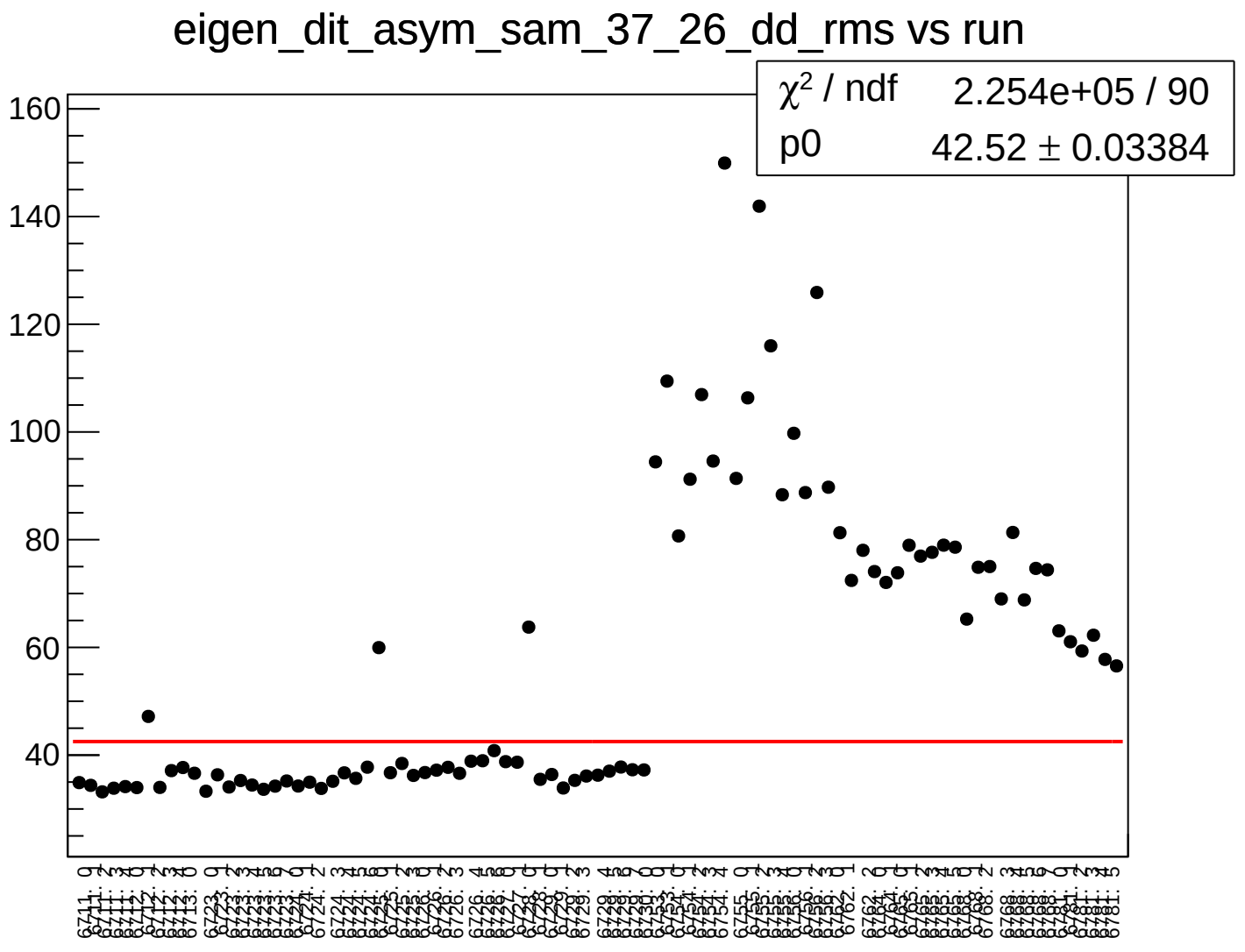

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.254e+05 / 90
p0 42.52 ± 0.03384
160
140
120
100
80
60
40

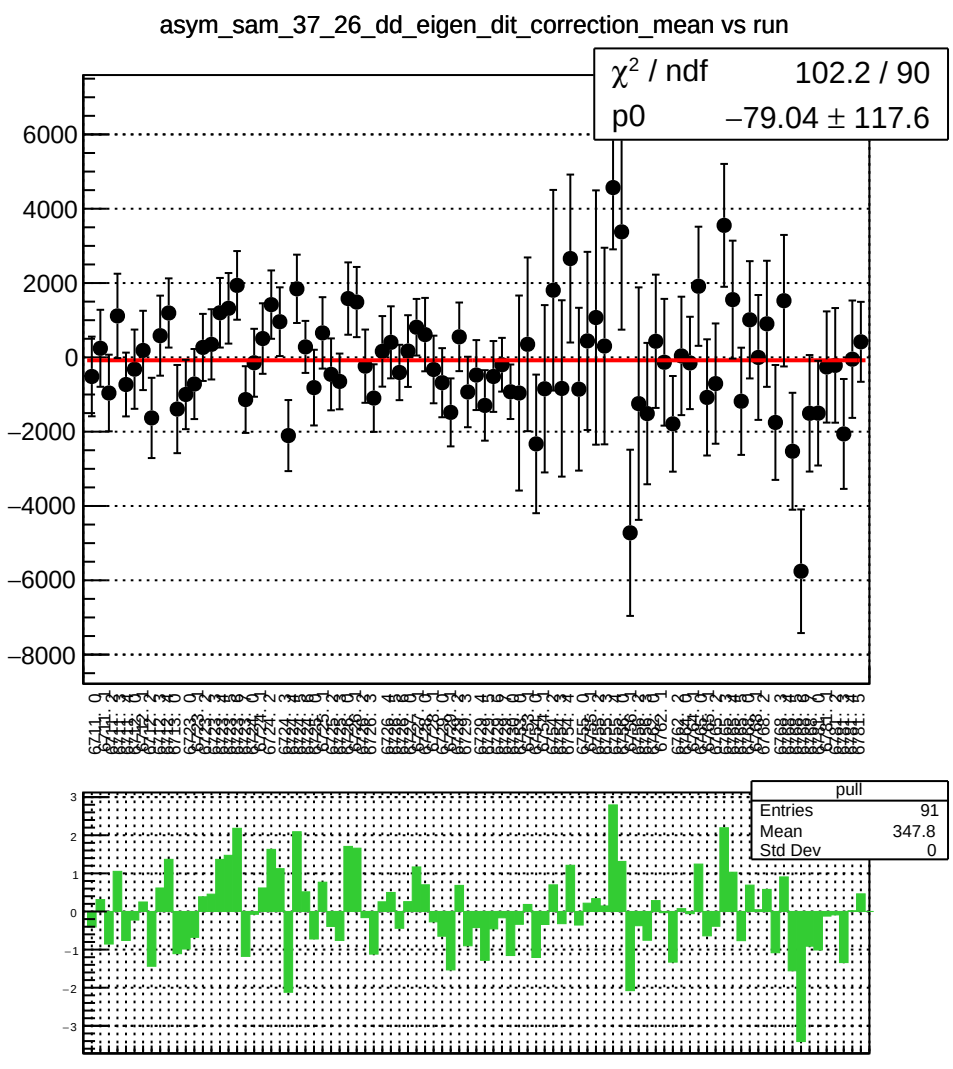

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 102.2 / 90
p0 −79.04 ± 117.6
pull
Entries 91
Mean 347.8
Std Dev 0

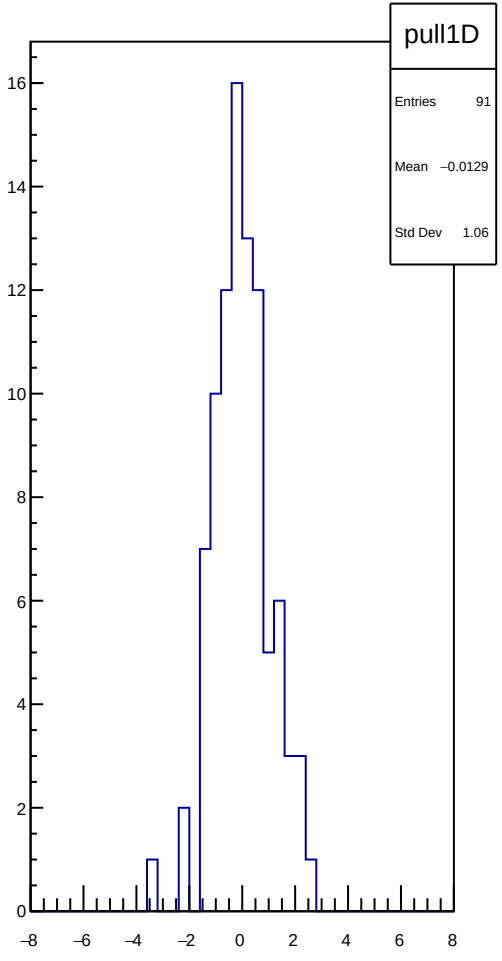

pull1D
Entries 91
Mean −0.0129
Std Dev 1.06

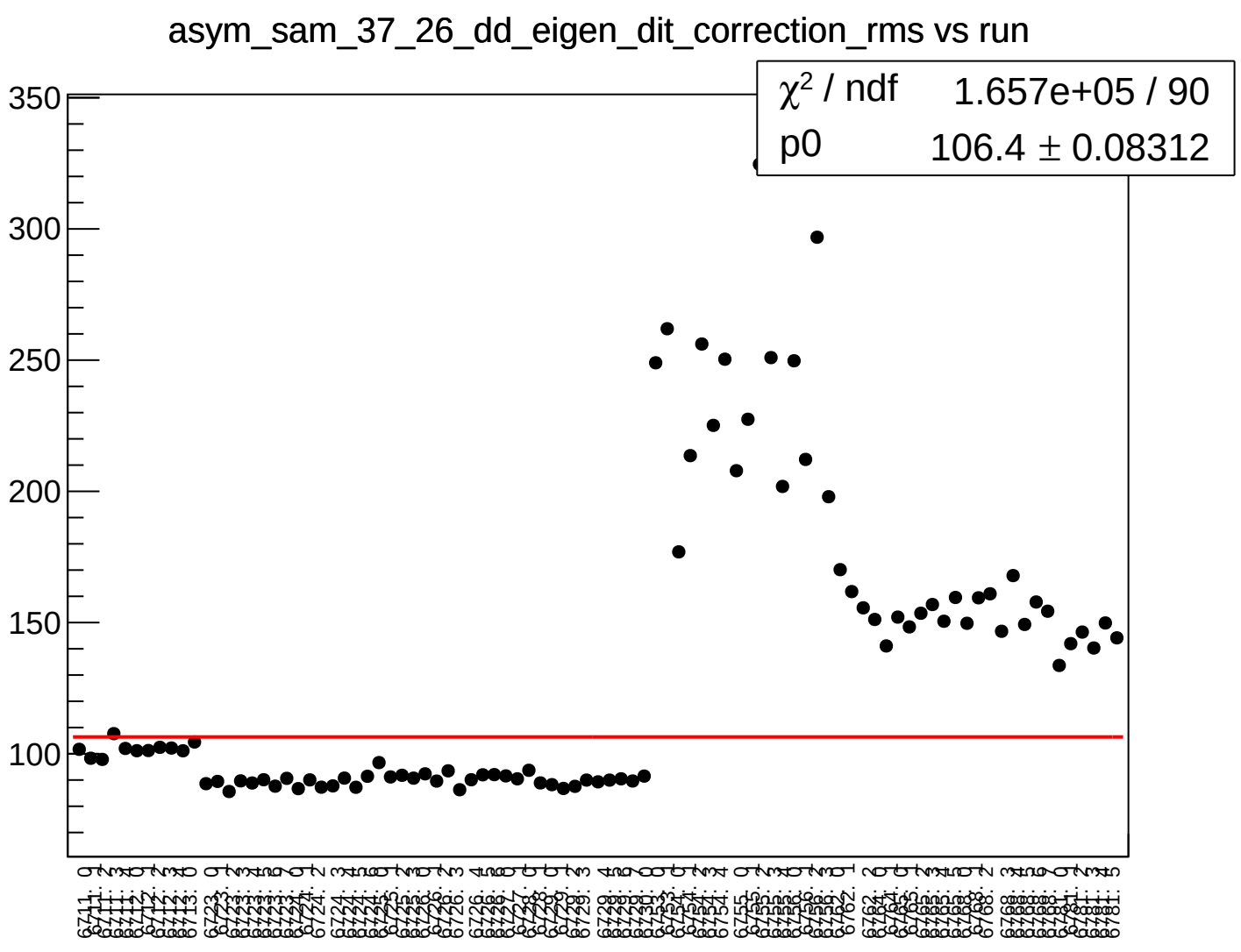

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 1.657e+05 / 90
p0 106.4 ± 0.08312
350
300
250
200
150
100

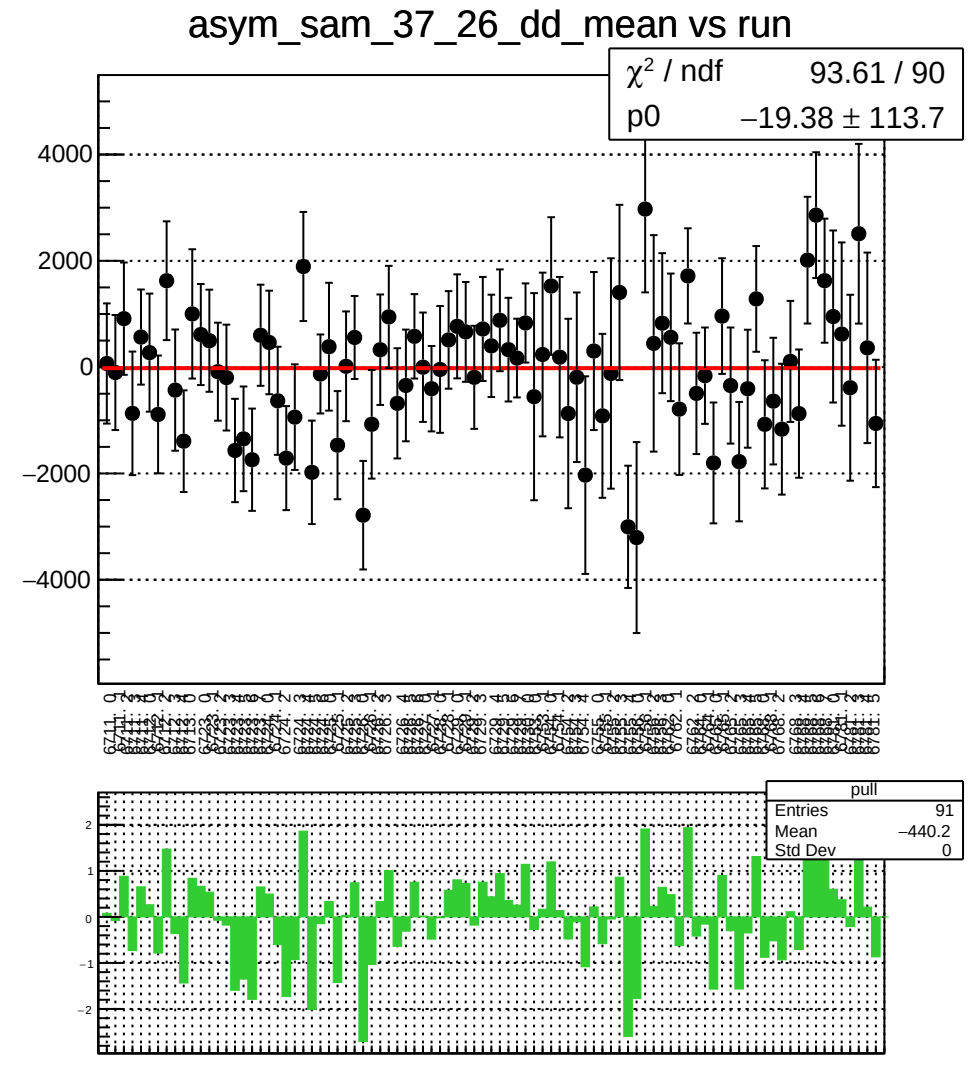

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 92.43 / 90
p0 −119.7 ± 47.85
pull
Entries 91
Mean 110.8
Std Dev 0
pull1D
Entries 91
Mean −0.02242
Std Dev 1.008

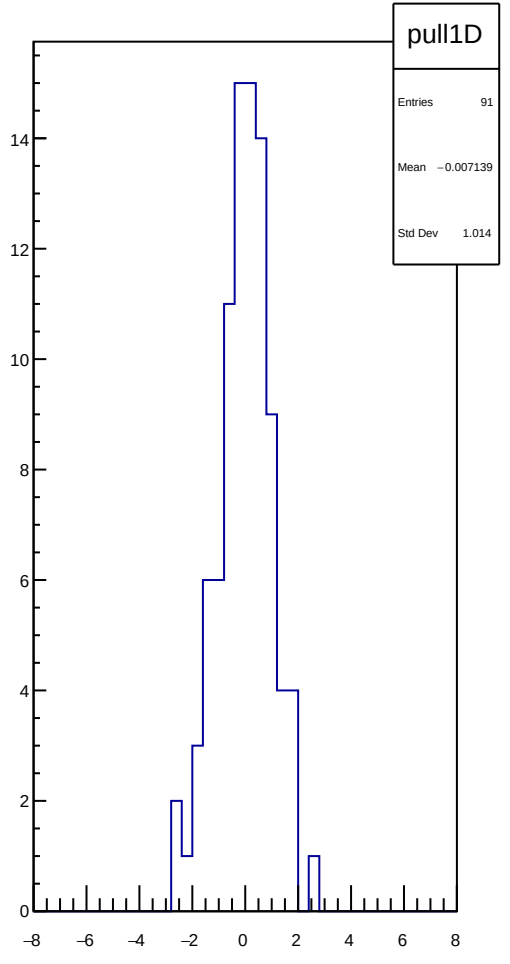

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.254e+05 / 90
p0 42.52 ± 0.03384
160
140
120
100
80
60
40

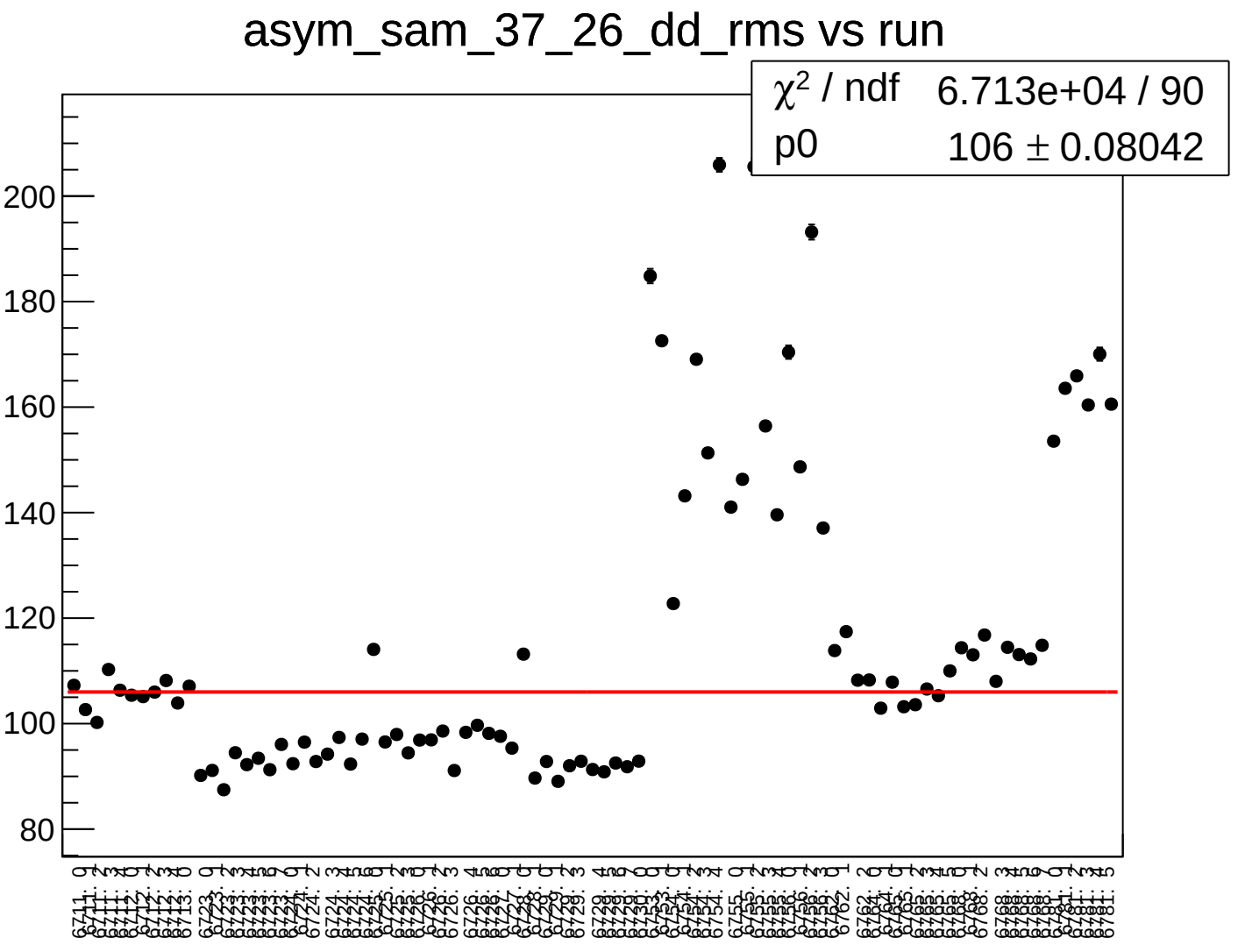

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 102.2 / 90
p0 −79.04 ± 117.6
pull
Entries 91
Mean 347.8
Std Dev 0

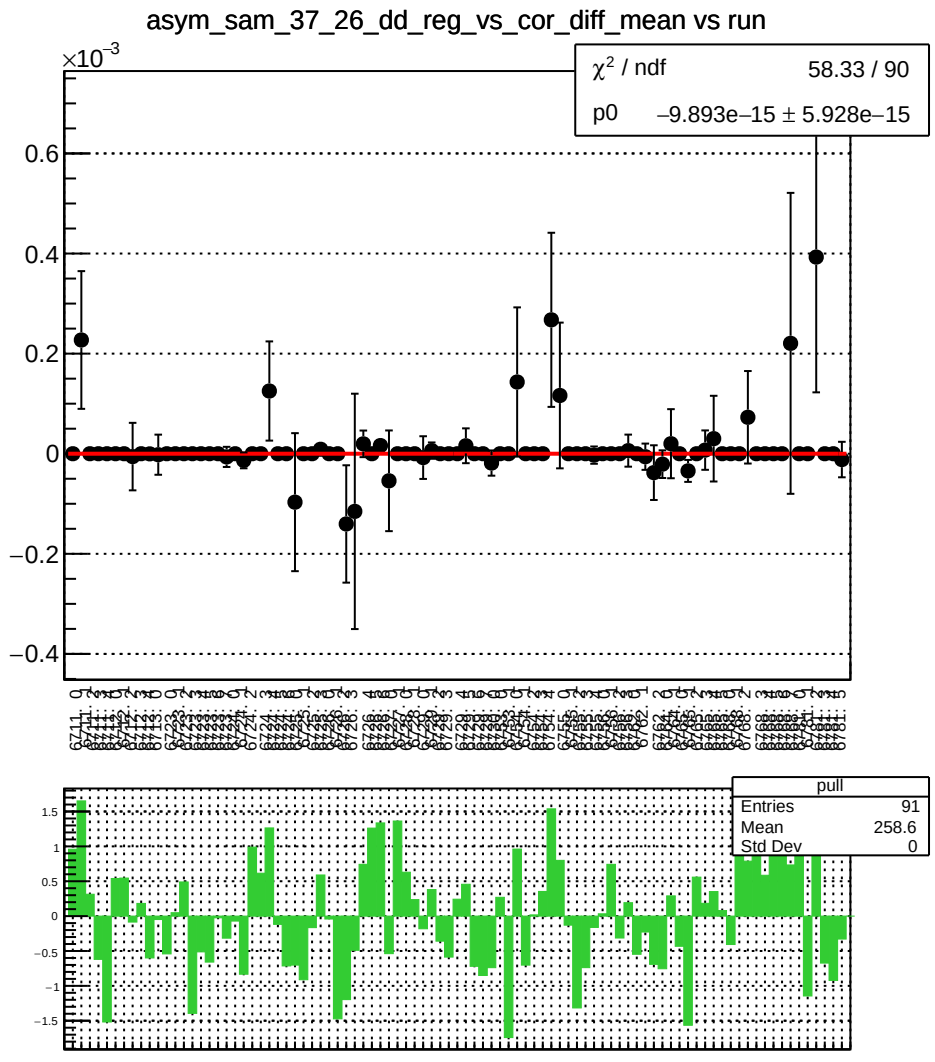

pull1D
Entries 91
Mean −0.0129
Std Dev 1.06

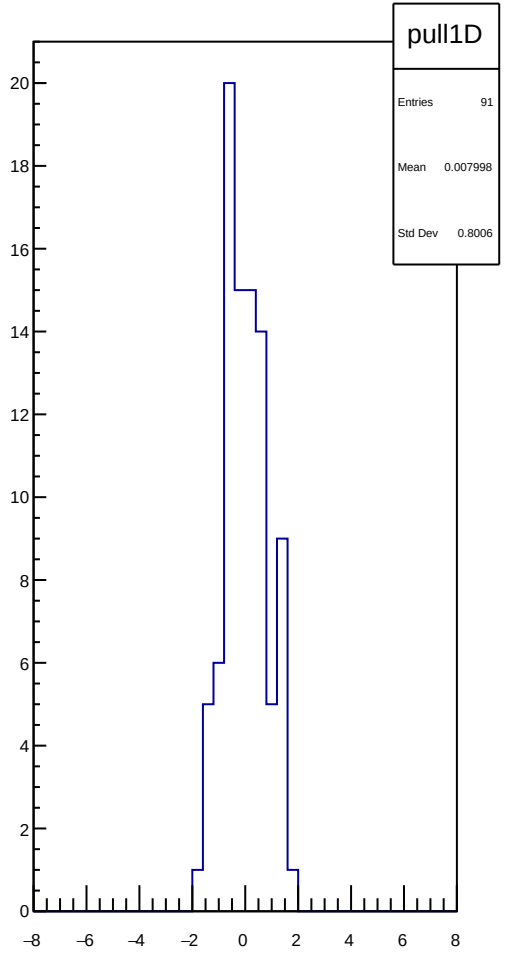

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.657e+05 / 90
p0 106.4 ± 0.08312
350
300
250
200
150
100

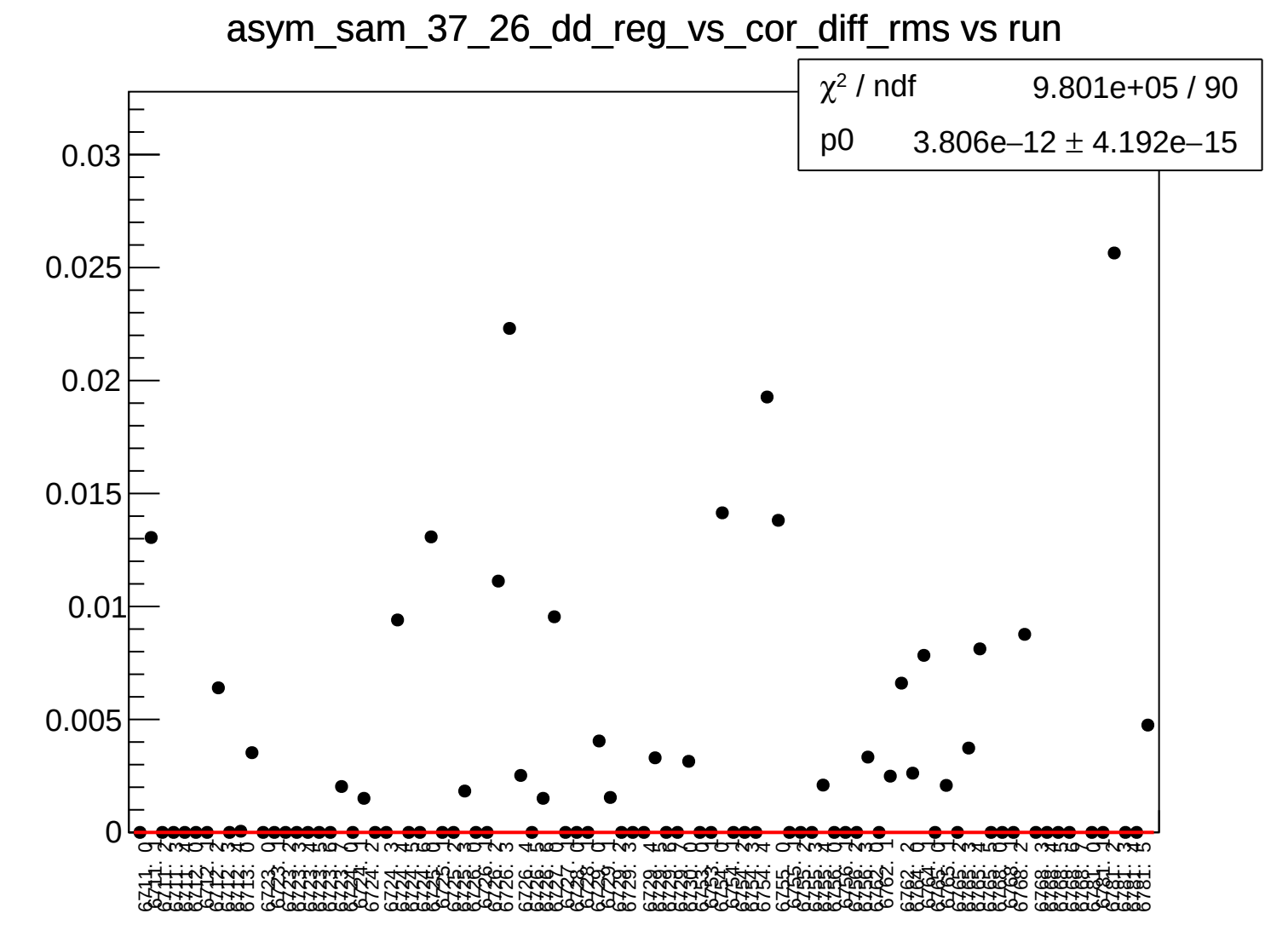

asym_sam_37_26_dd_mean vs run
χ² / ndf 93.61 / 90
p0 −19.38 ± 113.7
4000
2000
0
−2000
−4000
pull
Entries 91
Mean −440.2
Std Dev 0
2
1
0
−1
−2

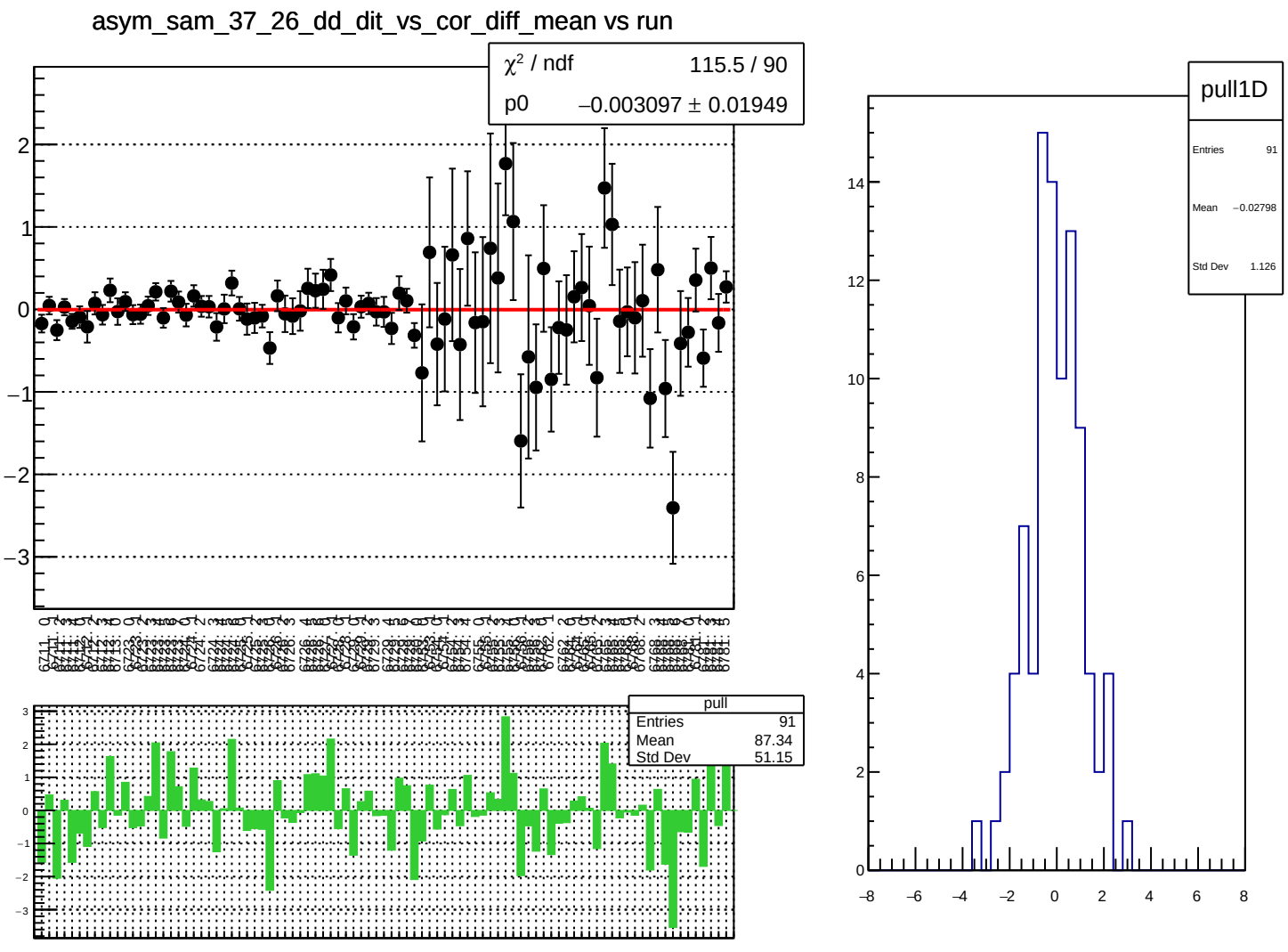

pull1D
Entries 91
Mean −0.007139
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

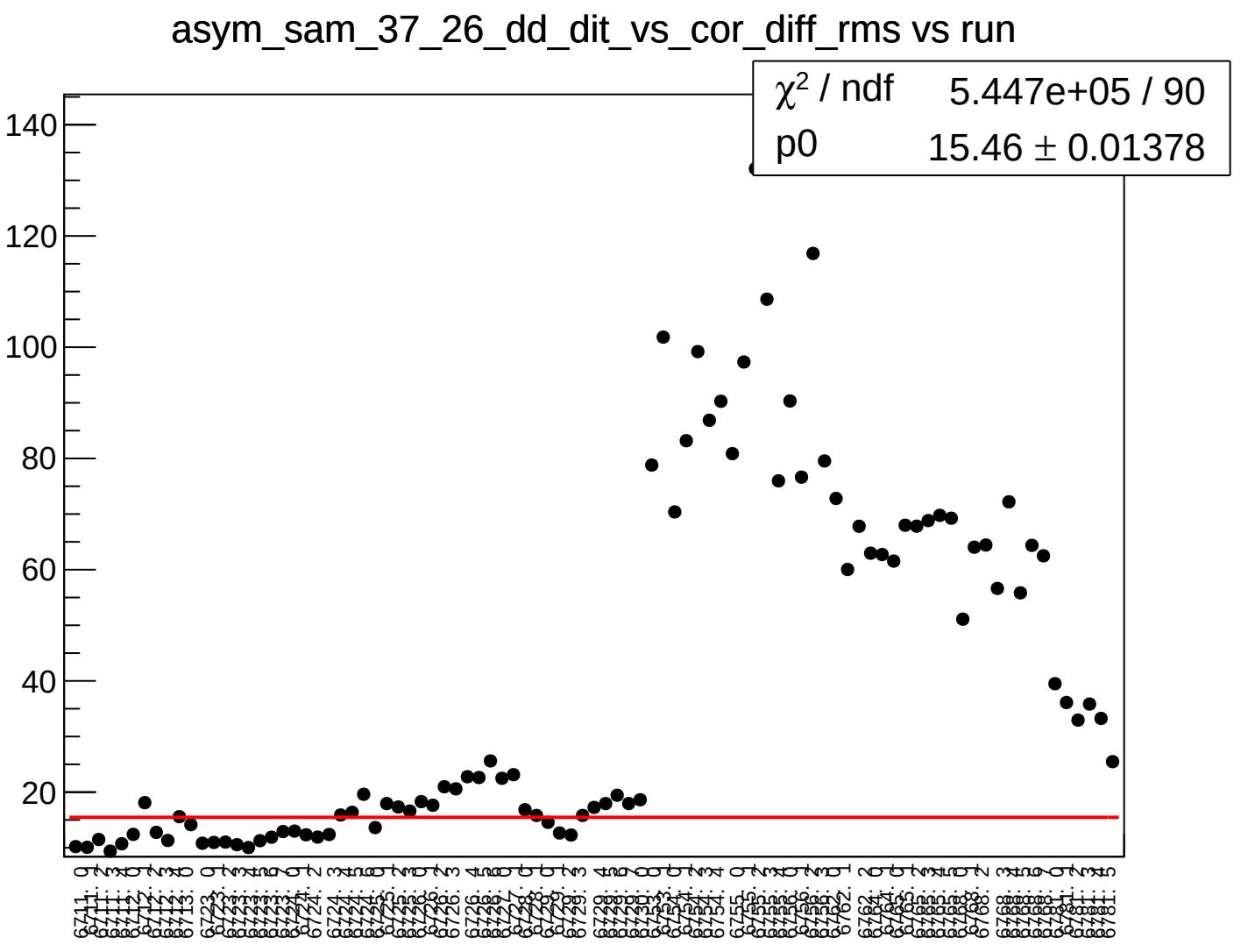

asym_sam_37_26_dd_rms vs run
χ^2 / ndf 6.713e+04 / 90
p0 106 ± 0.08042
200
180
160
140
120
100
80

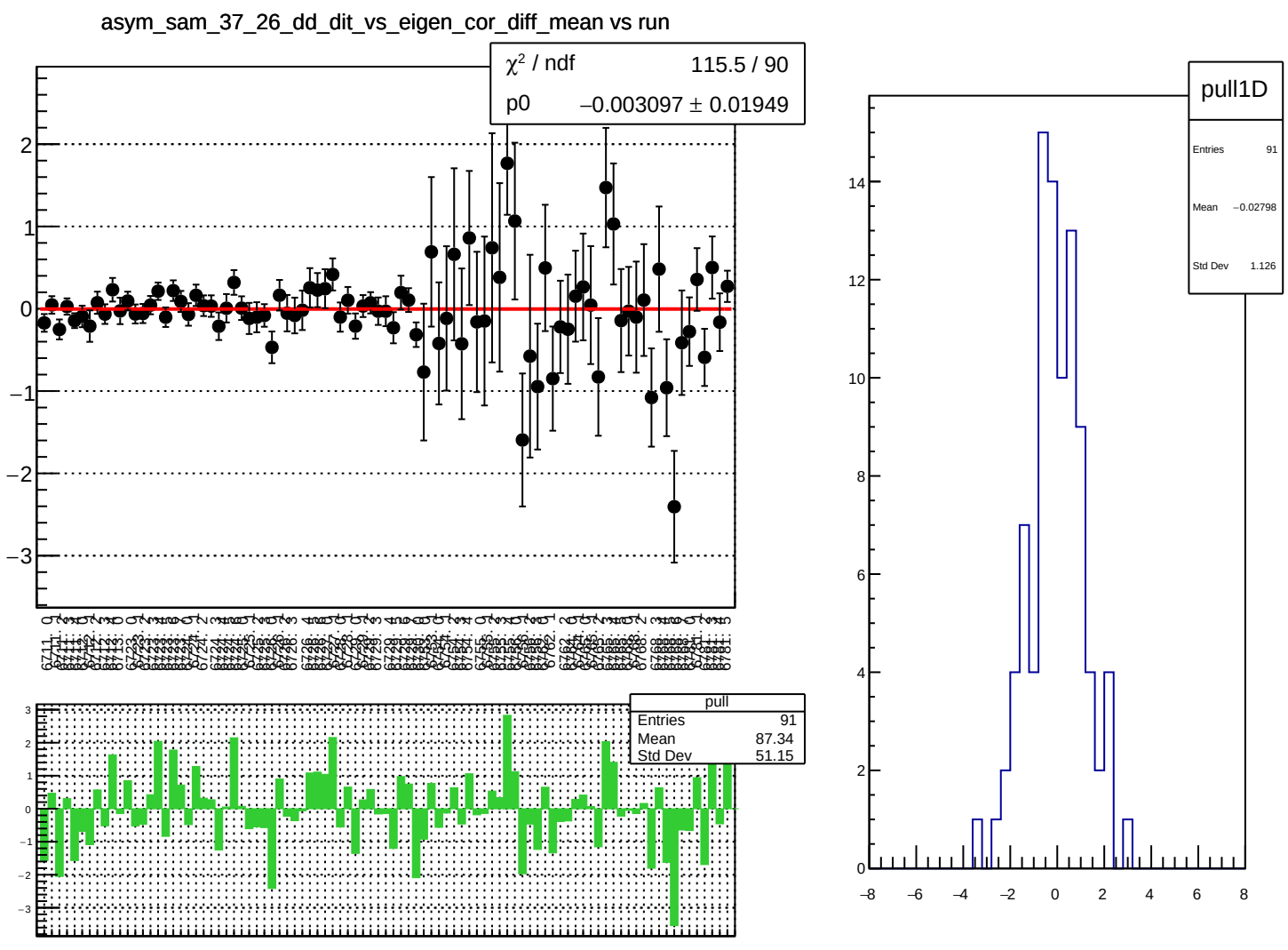

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 58.33 / 90
p0 −9.893e−15 ± 5.928e−15
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 91
Mean 258.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

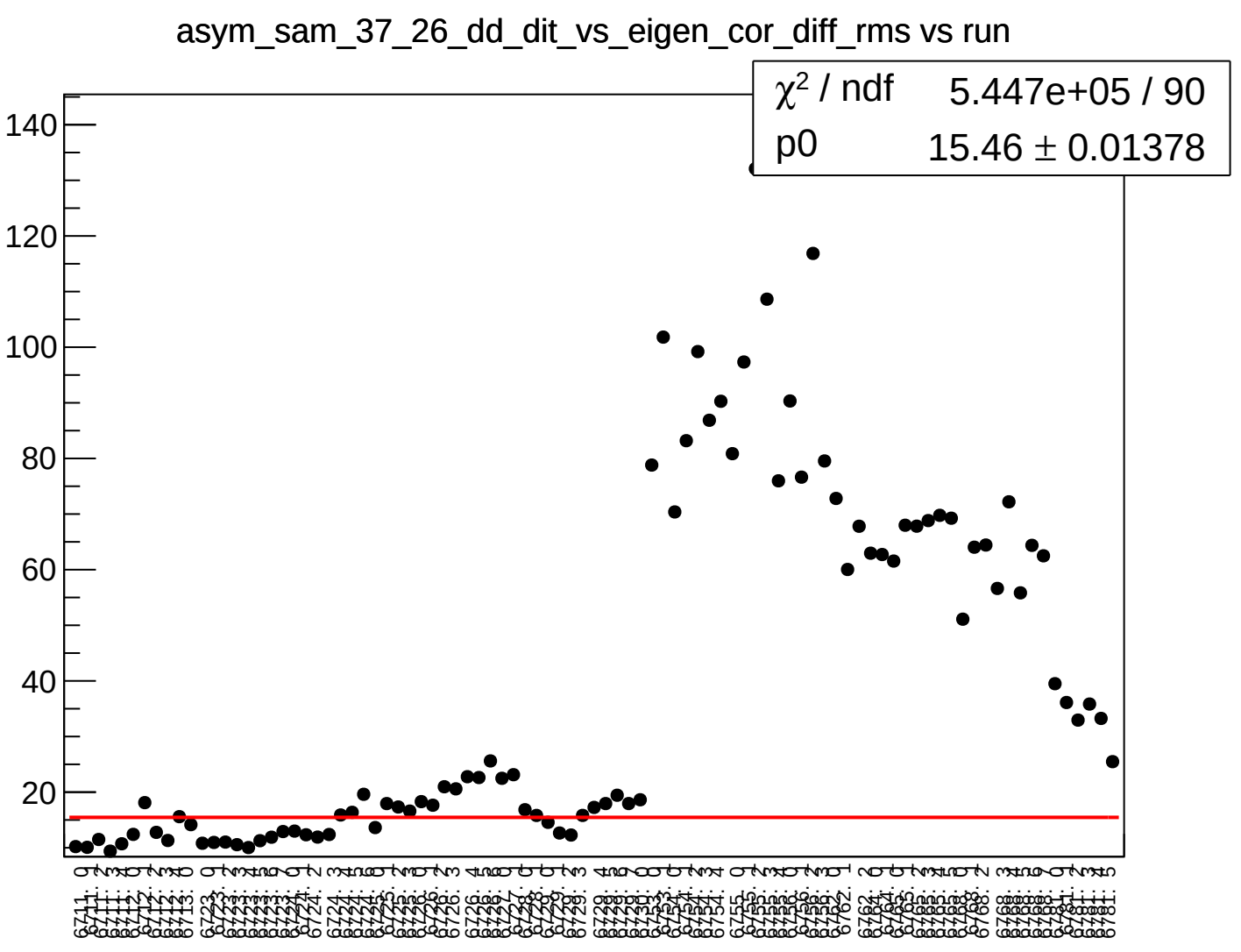

pull1D
Entries 91
Mean 0.007998
Std Dev 0.8006
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

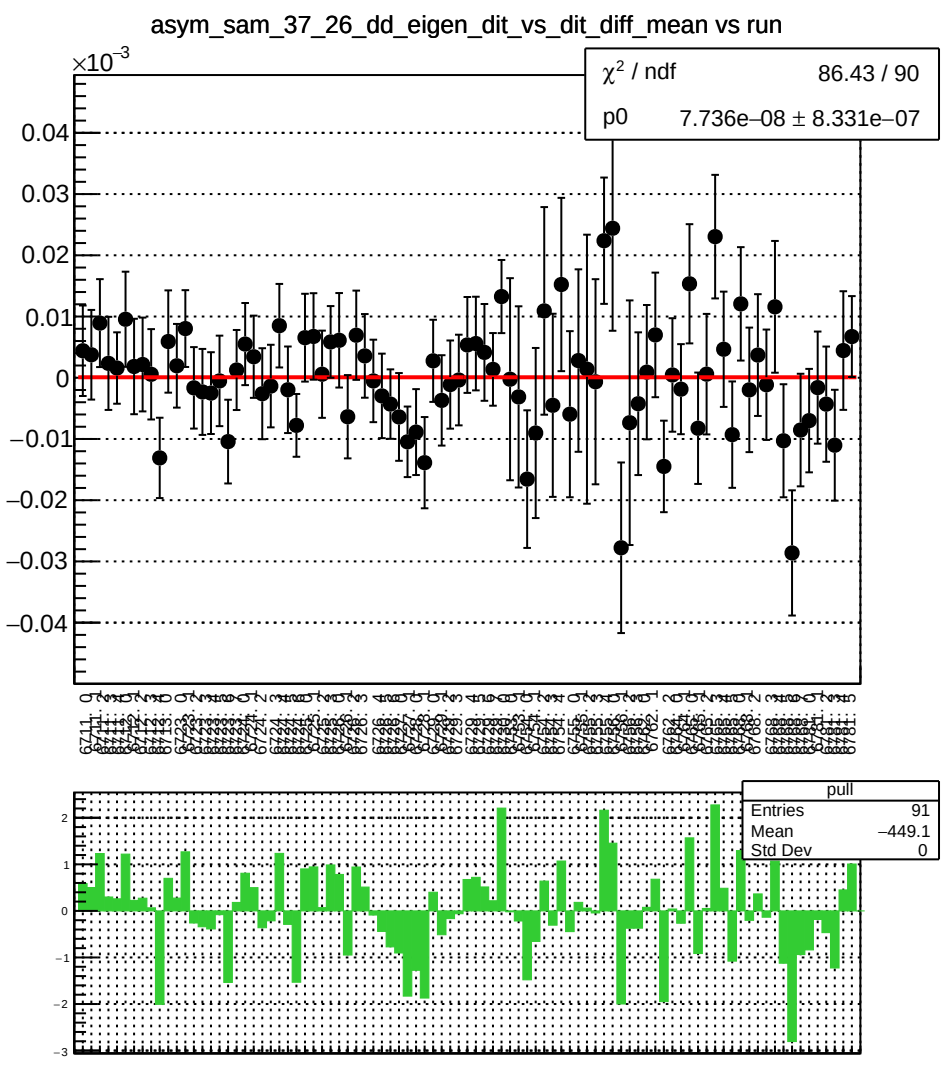

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.801e+05 / 90
p0 3.806e−12 ± 4.192e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

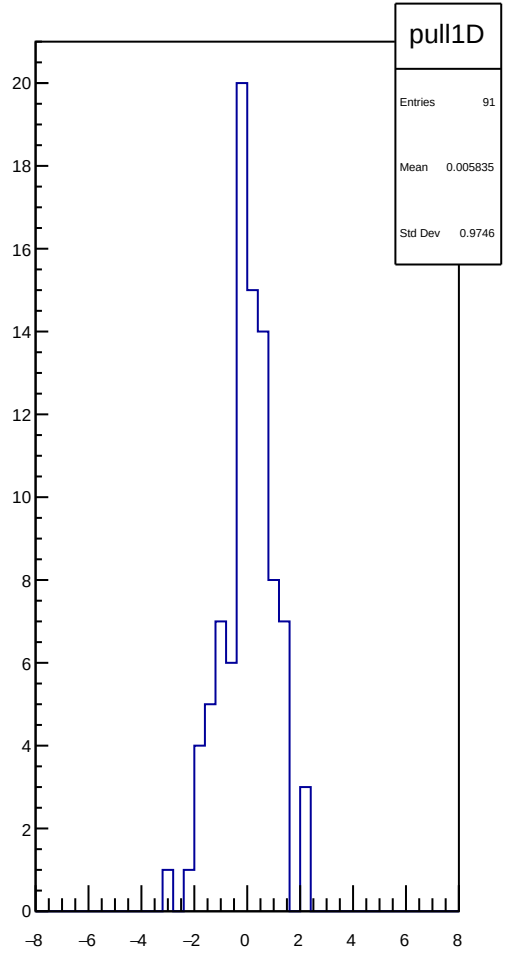

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 115.5 / 90
p0 −0.003097 ± 0.01949
pull
Entries 91
Mean 87.34
Std Dev 51.15
pull1D
Entries 91
Mean −0.02798
Std Dev 1.126

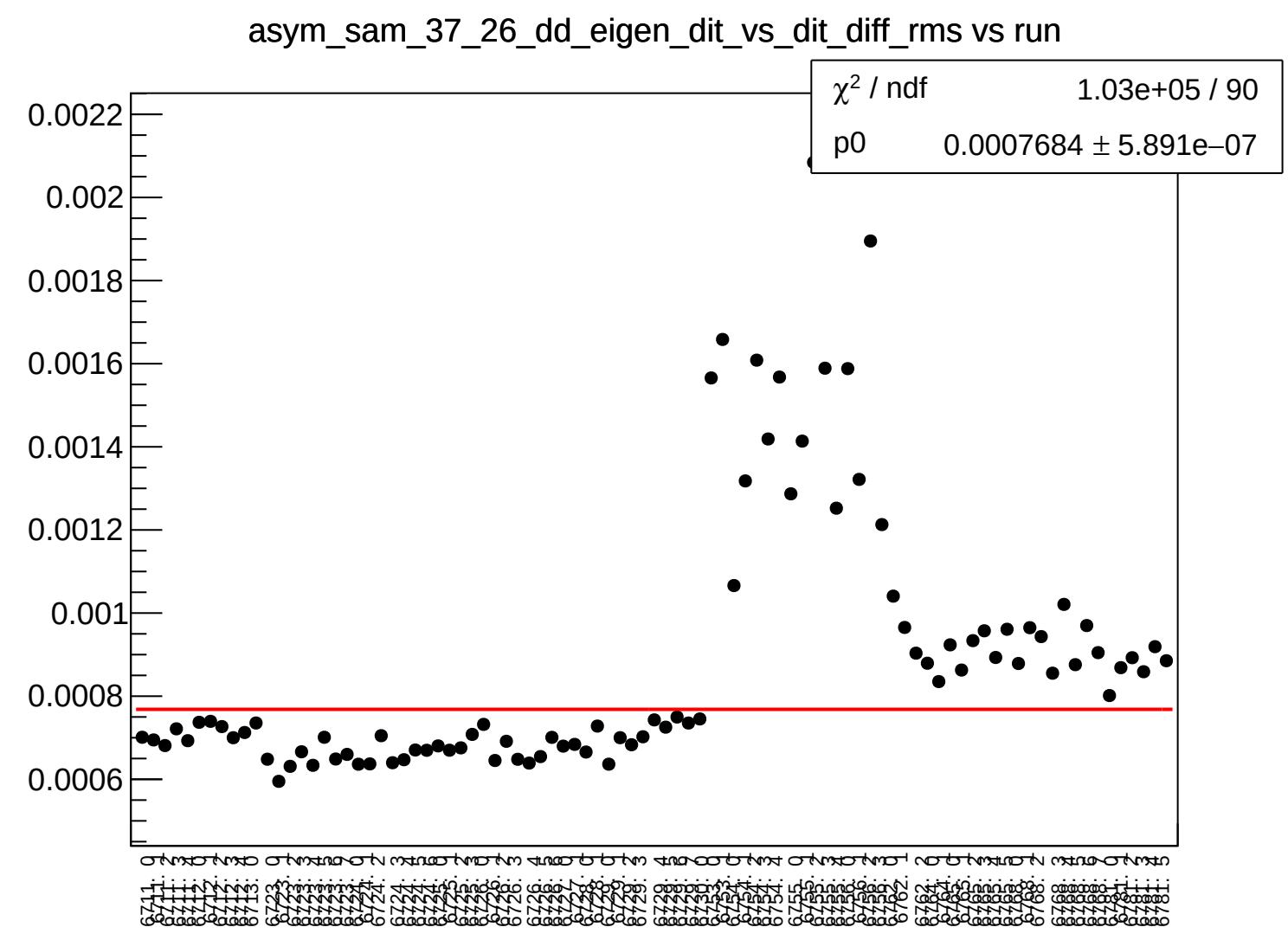

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.447e+05 / 90
p0 15.46 ± 0.01378
140
120
100
80
60
40
20

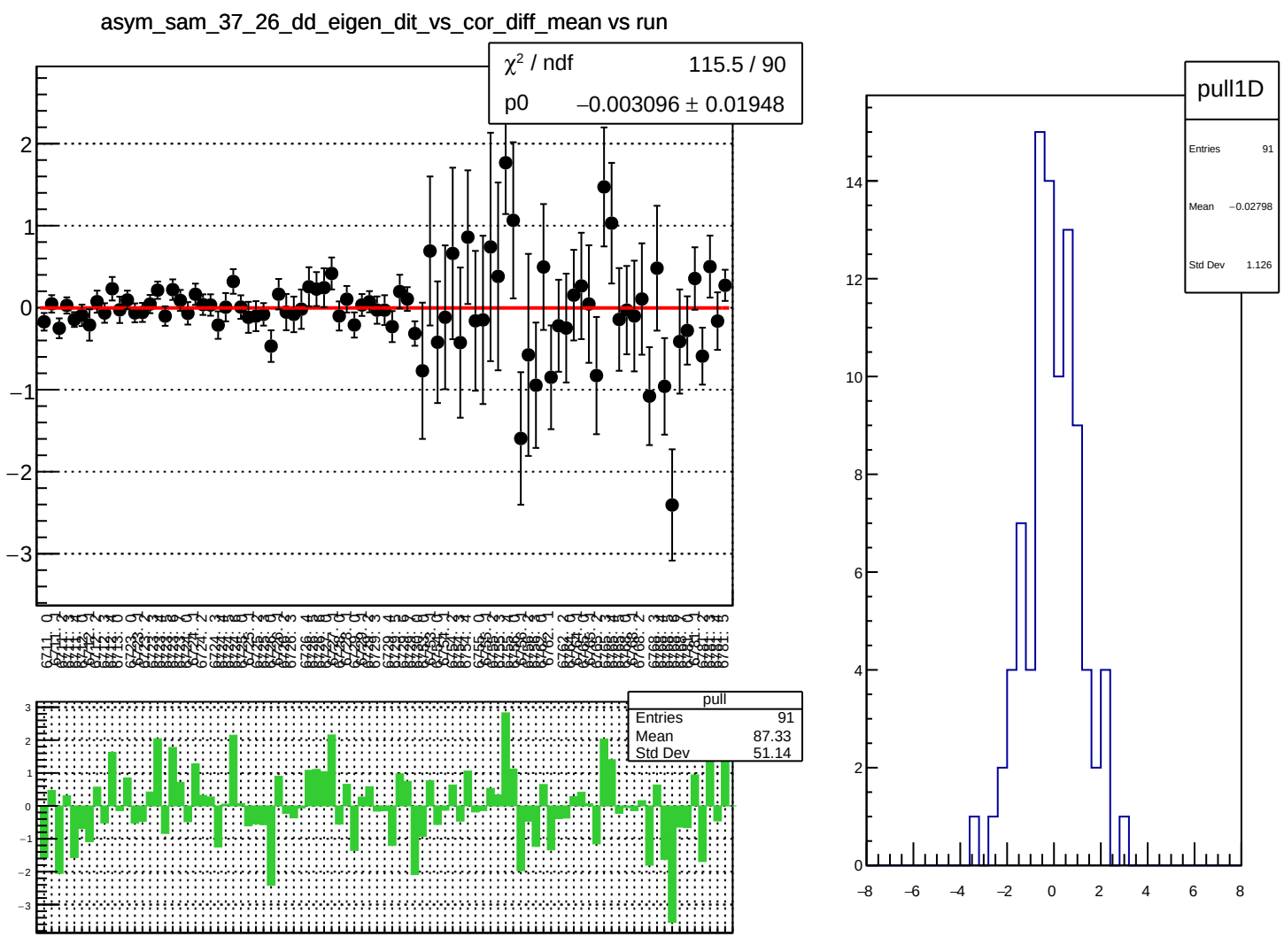

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.5 / 90
p0 −0.003097 ± 0.01949
pull
Entries 91
Mean 87.34
Std Dev 51.15
pull1D
Entries 91
Mean −0.02798
Std Dev 1.126

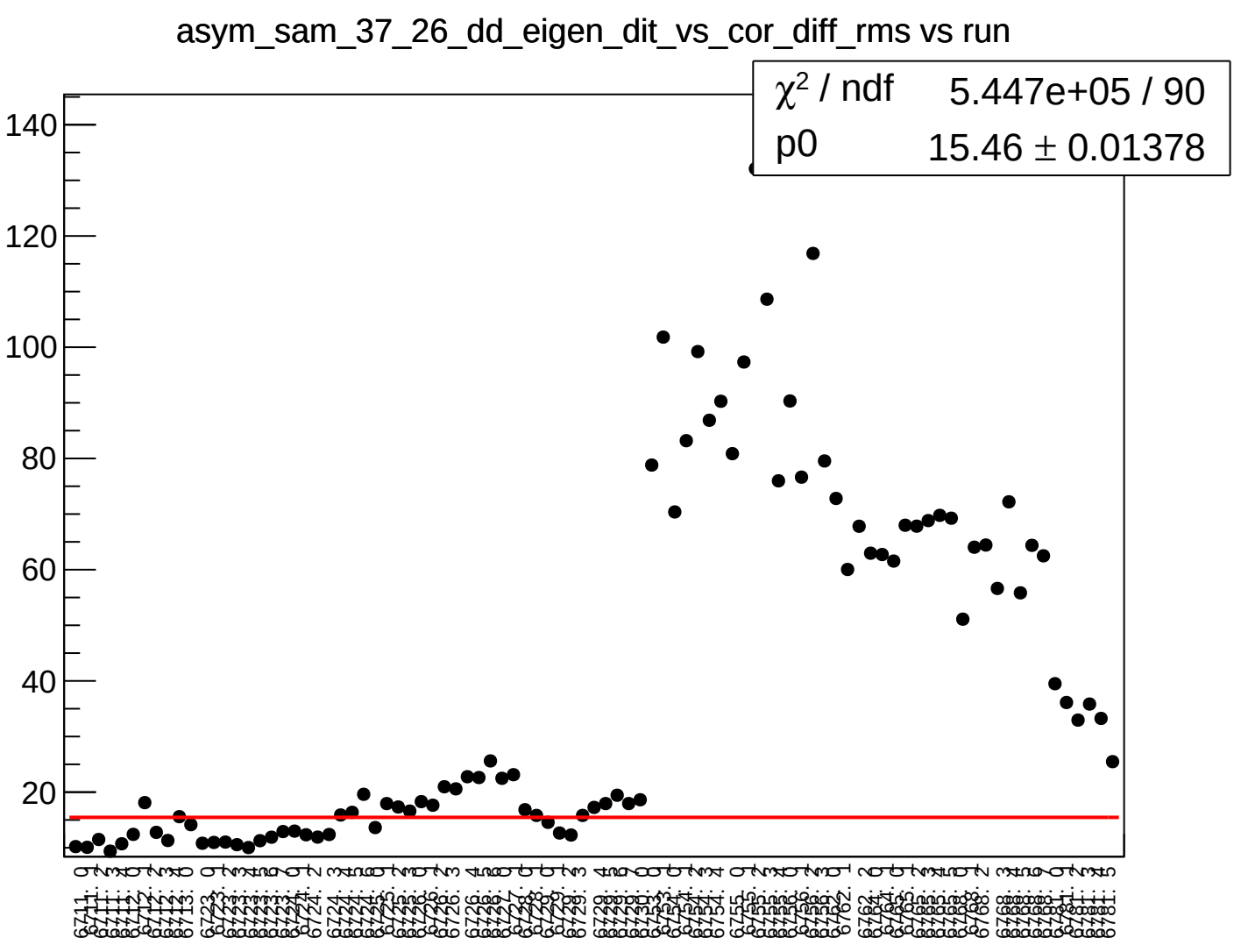

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.447e+05 / 90
p0 15.46 ± 0.01378
140
120
100
80
60
40
20

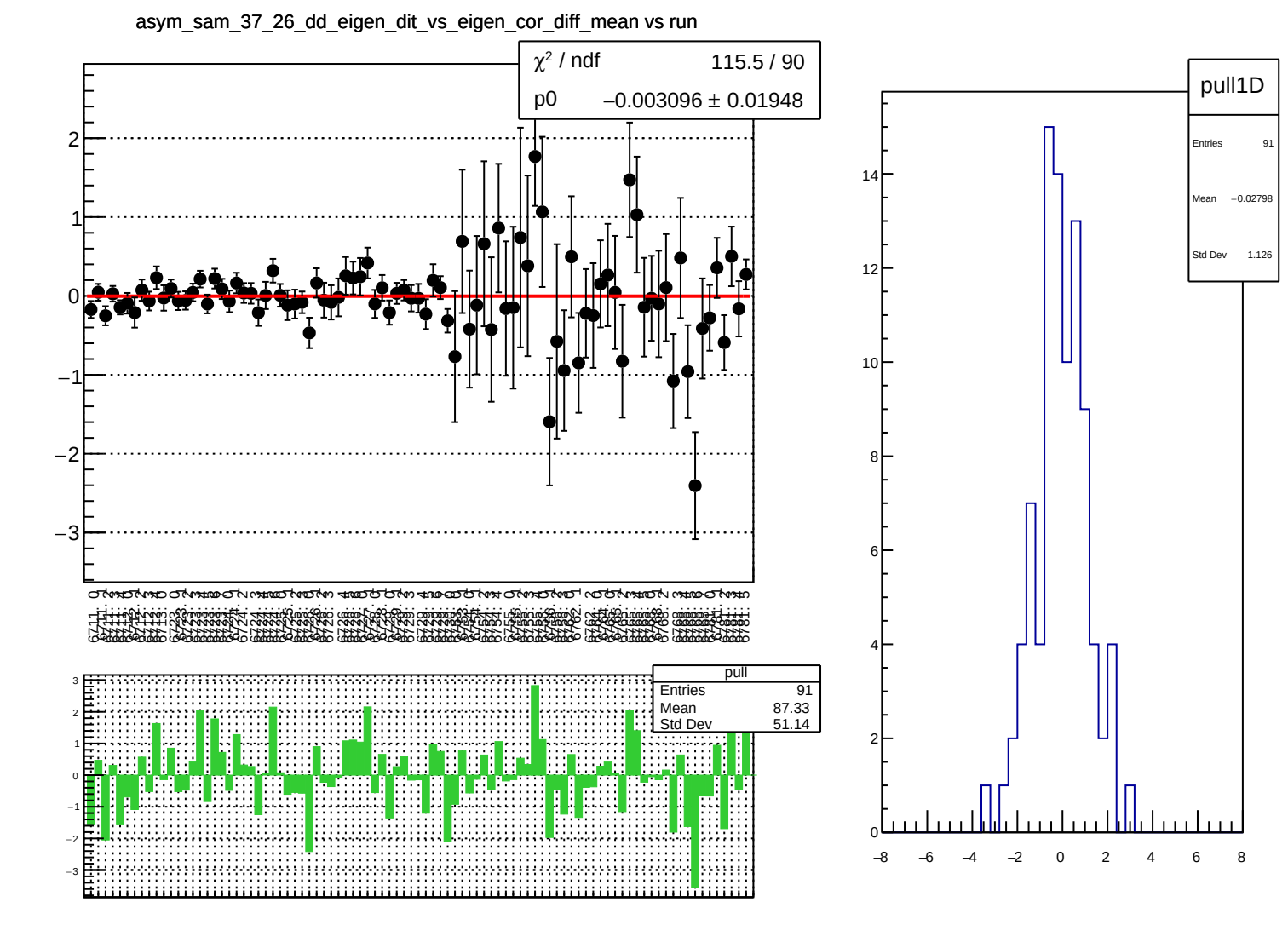

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.43 / 90
p0 7.736e−08 ± 8.331e−07
pull
Entries 91
Mean −449.1
Std Dev 0

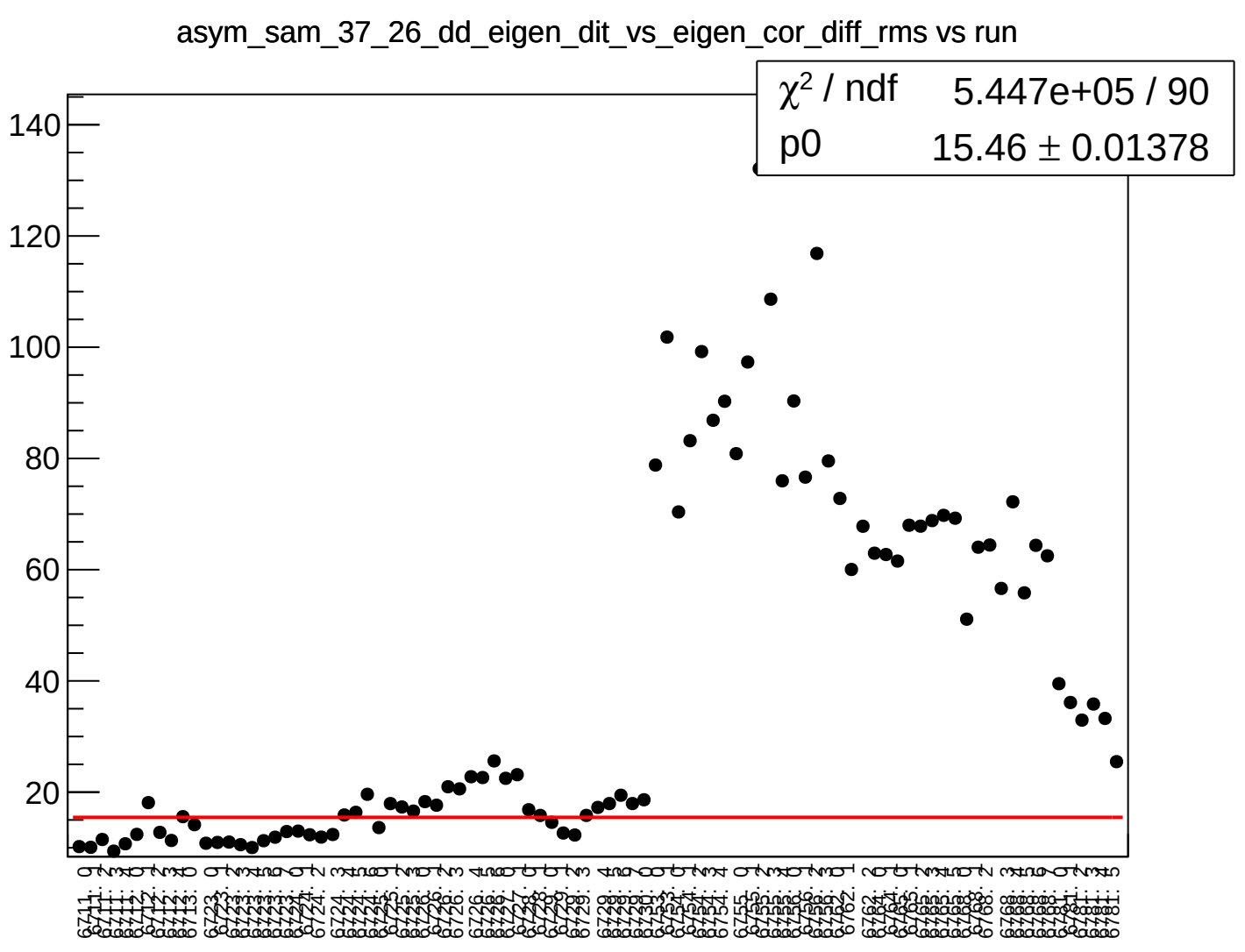

pull1D
Entries 91
Mean 0.005835
Std Dev 0.9746

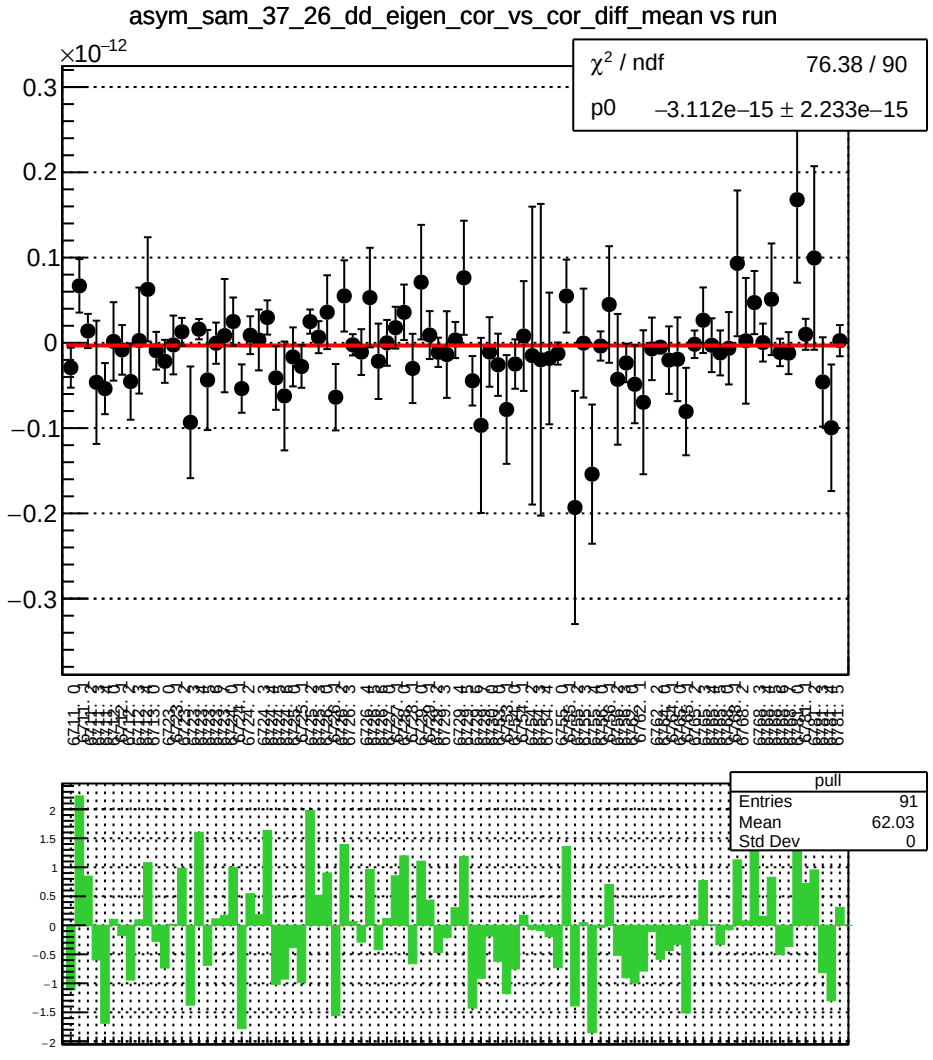

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.03e+05 / 90
p0 0.0007684 ± 5.891e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

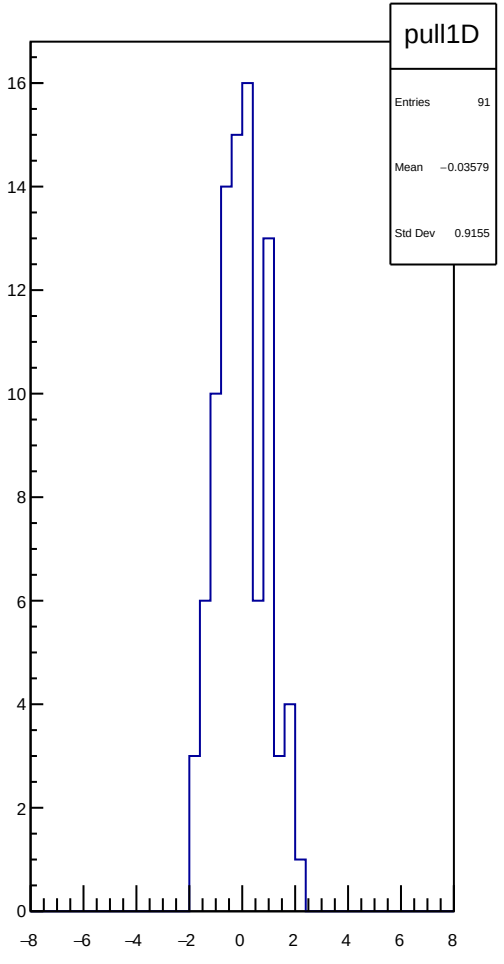

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 115.5 / 90
p0 −0.003096 ± 0.01948
pull
Entries 91
Mean 87.33
Std Dev 51.14
pull1D
Entries 91
Mean −0.02798
Std Dev 1.126

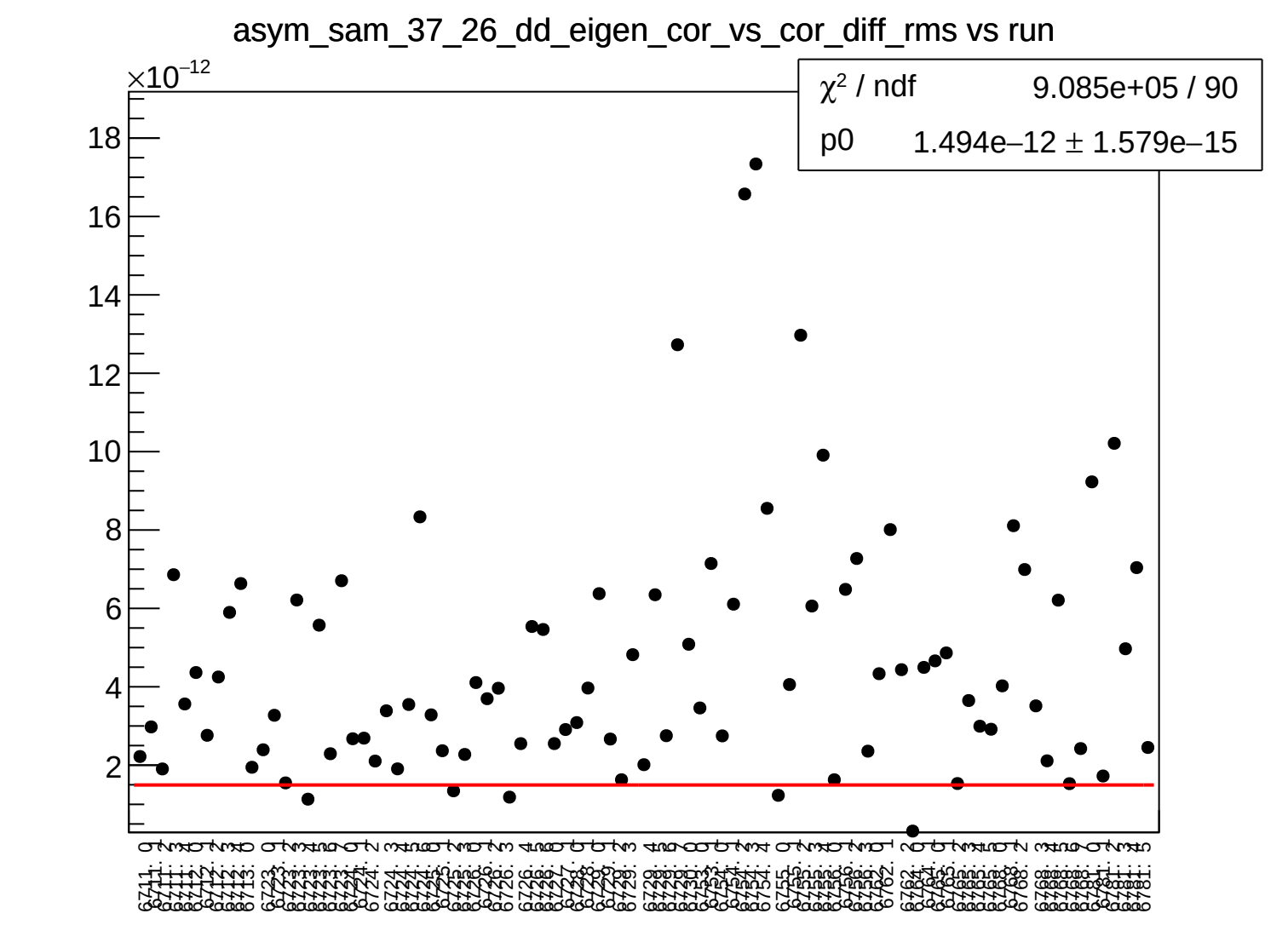

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.447e+05 / 90
p0 15.46 ± 0.01378
140
120
100
80
60
40
20

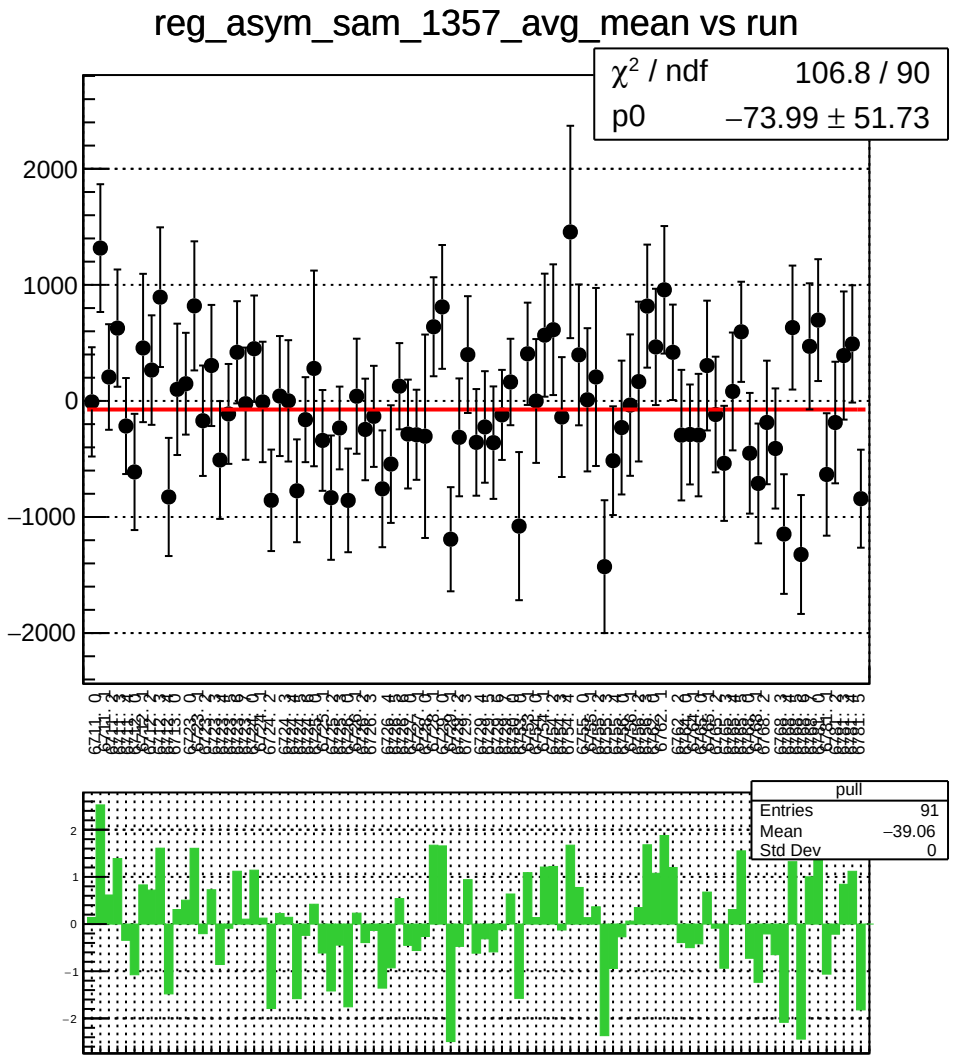

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.5 / 90
p0 −0.003096 ± 0.01948
pull
Entries 91
Mean 87.33
Std Dev 51.14
pull1D
Entries 91
Mean −0.02798
Std Dev 1.126

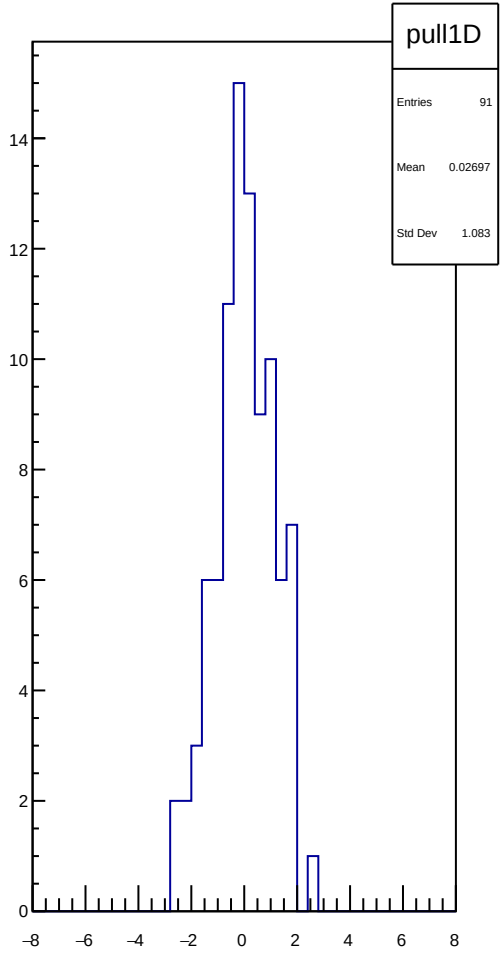

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.447e+05 / 90
p0 15.46 ± 0.01378
140
120
100
80
60
40
20

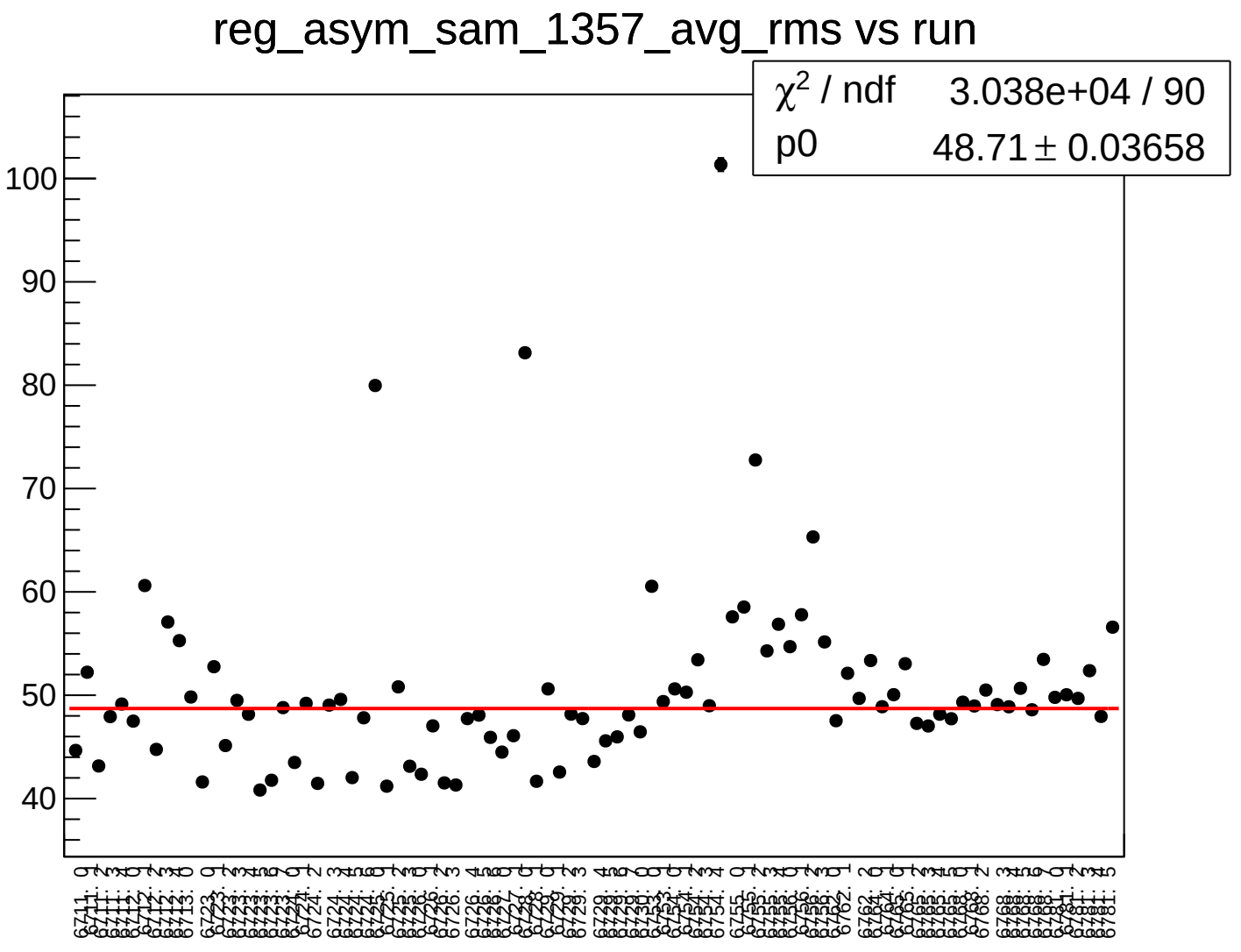

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.38 / 90
p0 −3.112e−15 ± 2.233e−15
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 91
Mean 62.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

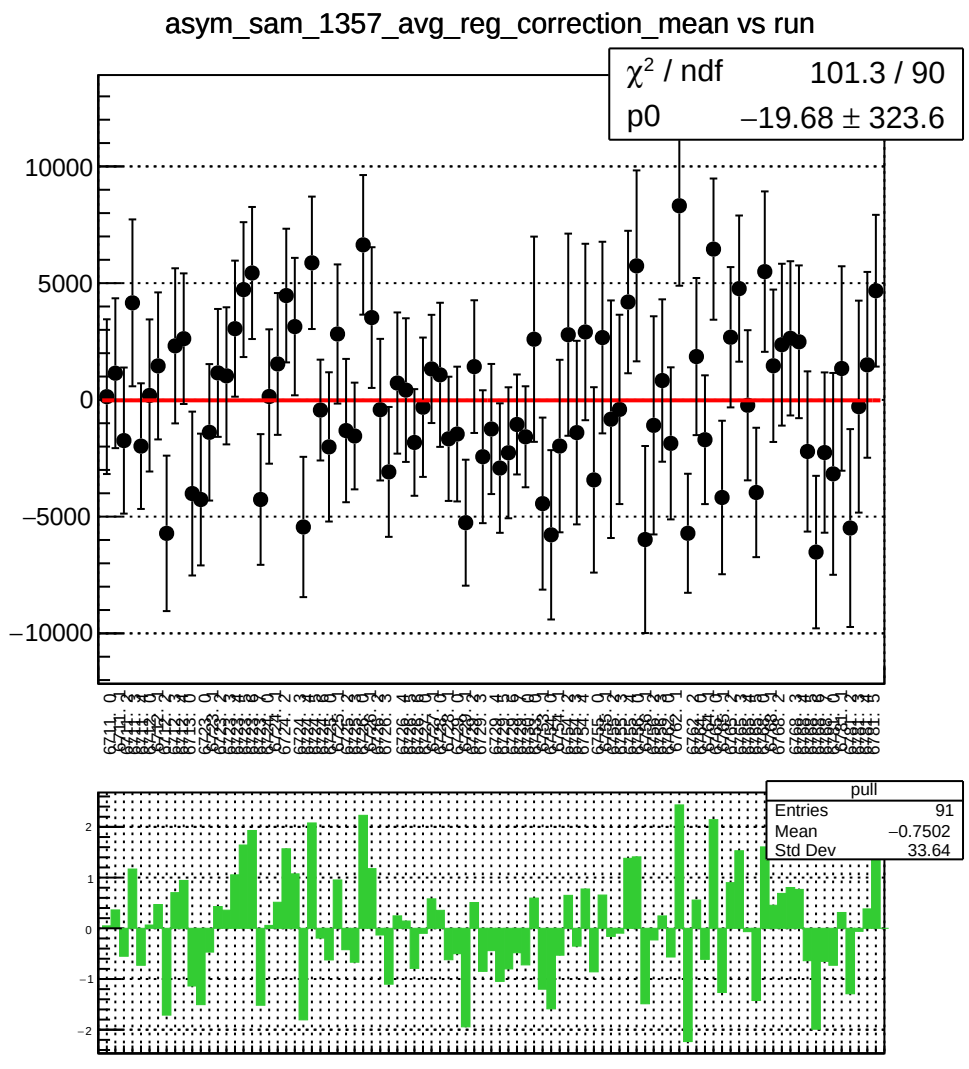

pull1D
Entries 91
Mean −0.03579
Std Dev 0.9155
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

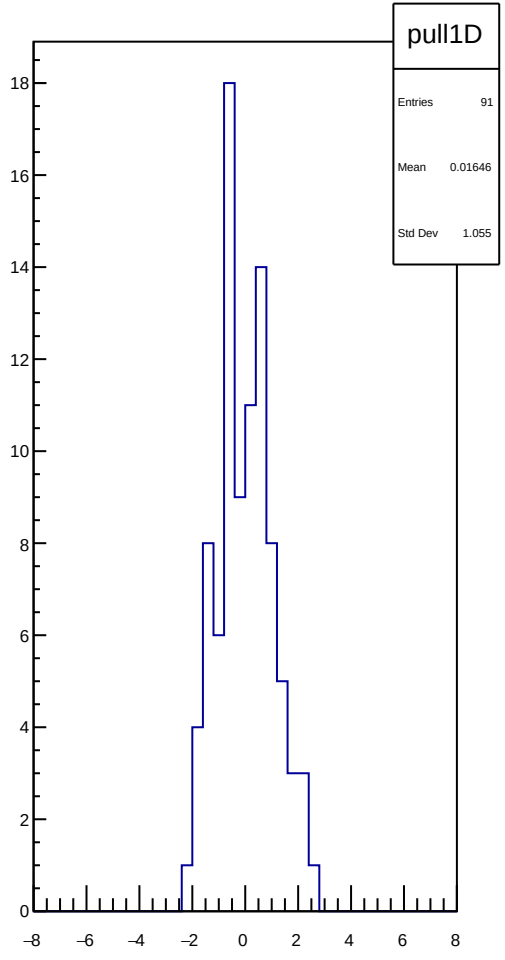

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.085e+05 / 90
p0 1.494e−12 ± 1.579e−15
18
16
14
12
10
8
6
4
2

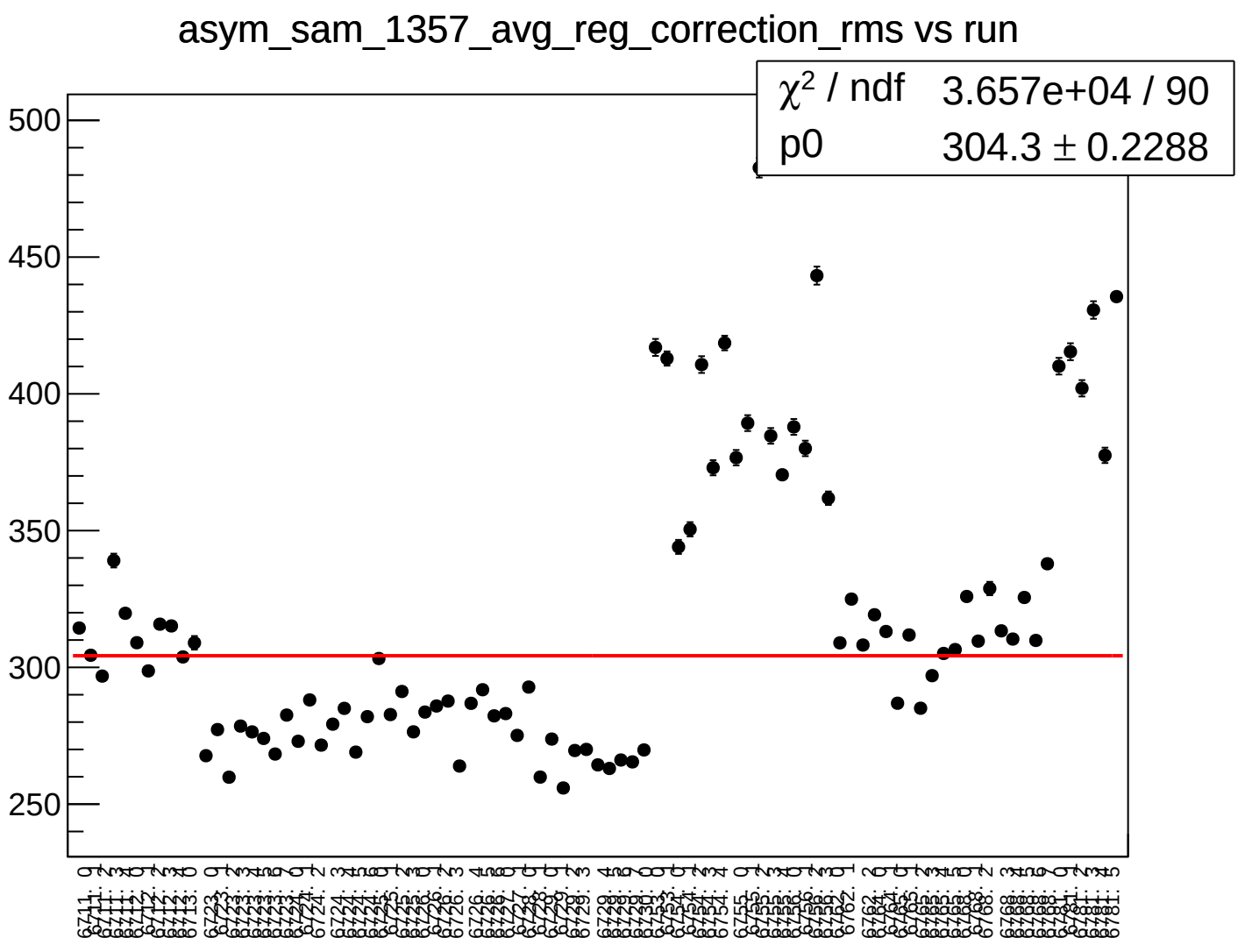

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 106.8 / 90
p0 −73.99 ± 51.73
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −39.06
Std Dev 0
2
1
0
−1
−2

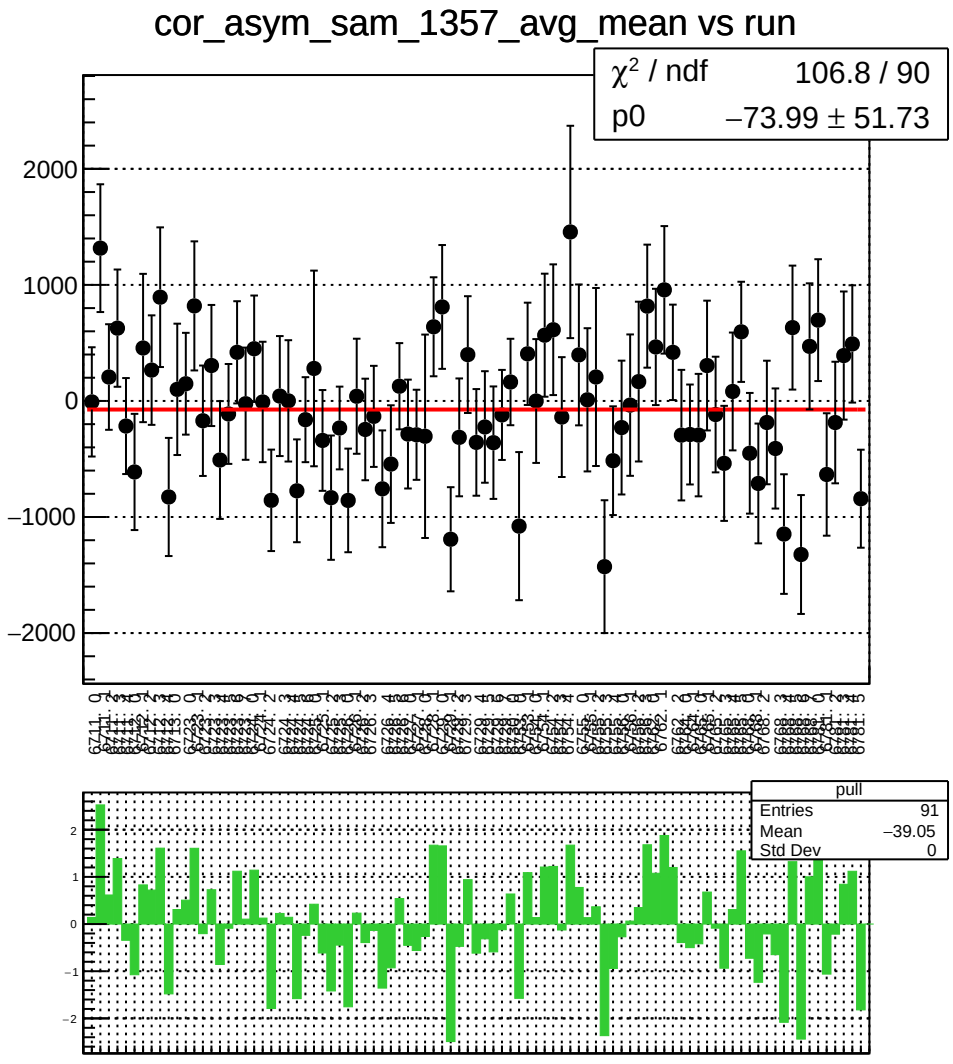

pull1D
Entries 91
Mean 0.02697
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

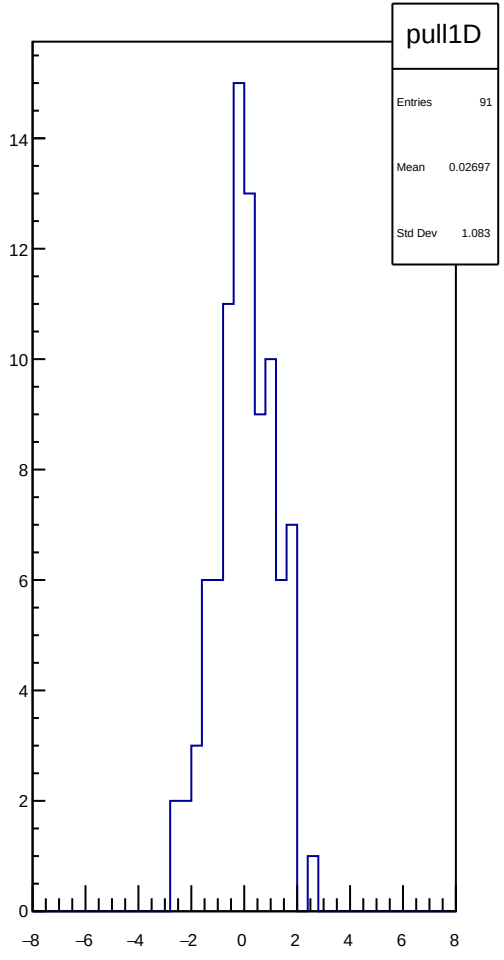

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 3.038e+04 / 90
p0 48.71 ± 0.03658
100
90
80
70
60
50
40

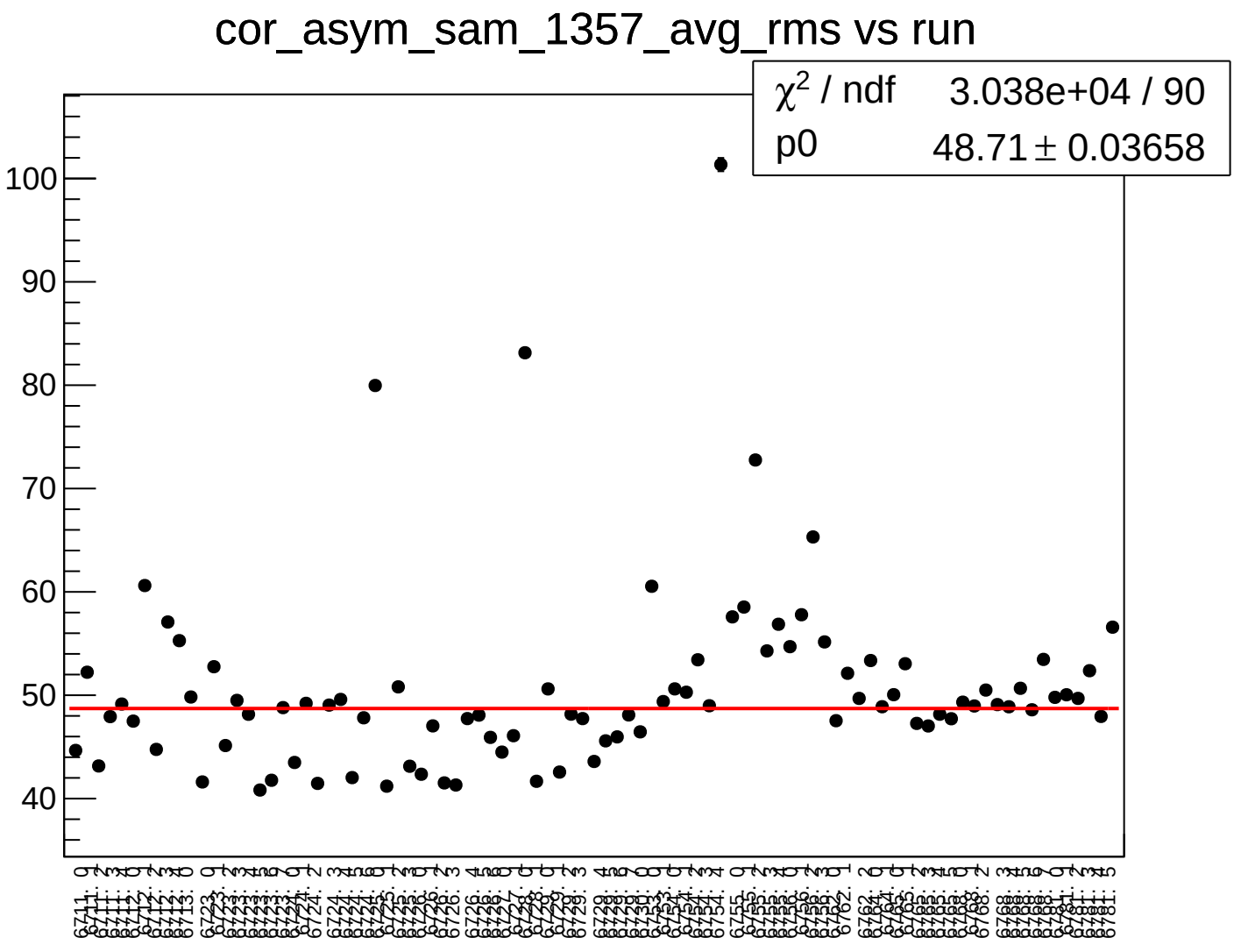

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 101.3 / 90
p0 −19.68 ± 323.6
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −0.7502
Std Dev 33.64
2
1
0
−1
−2

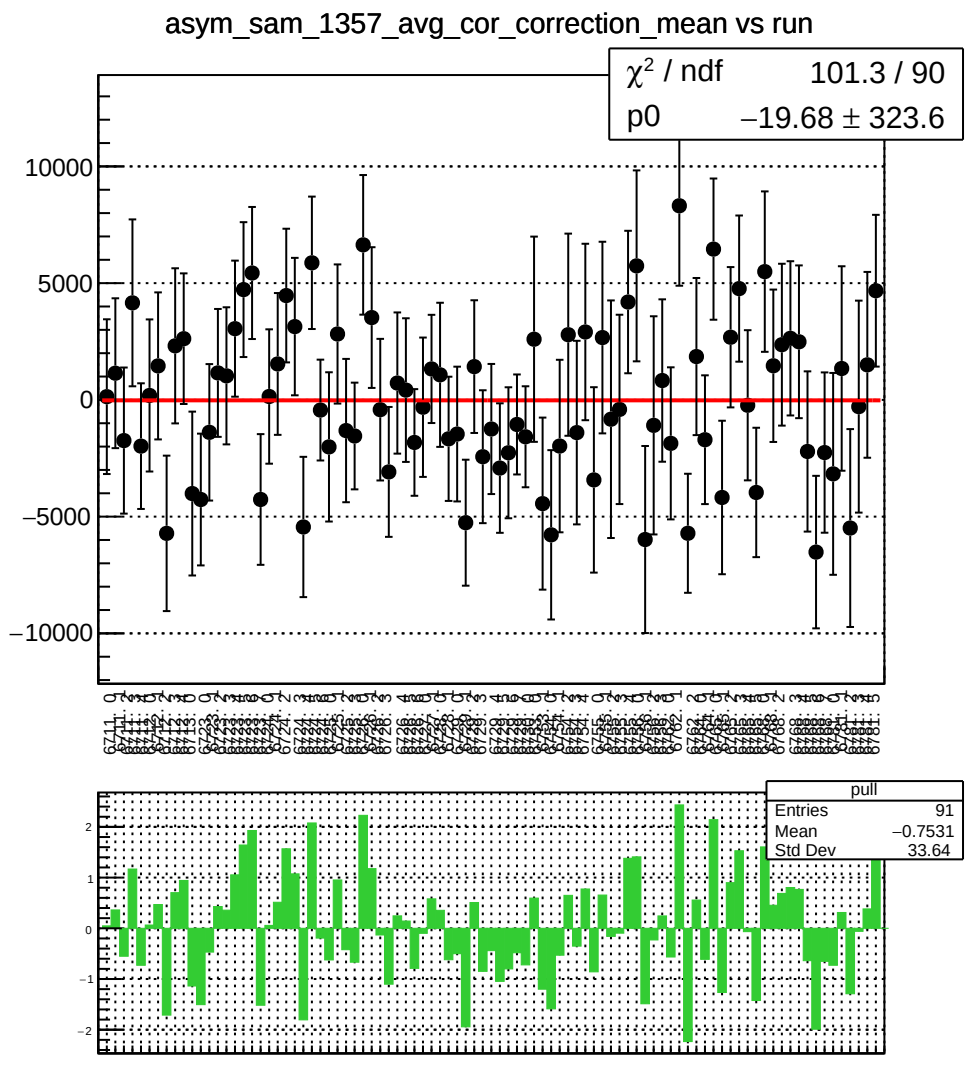

pull1D
Entries 91
Mean 0.01646
Std Dev 1.055
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

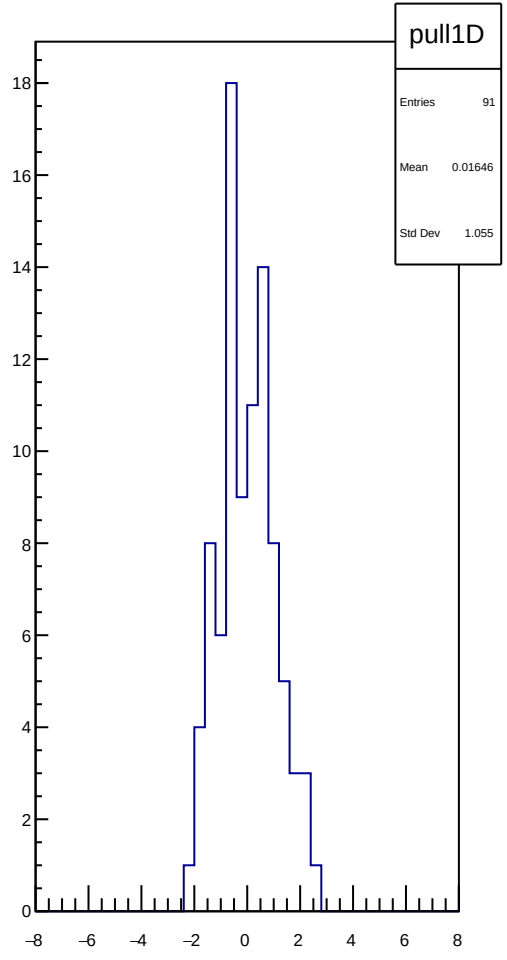

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 3.657e+04 / 90
p0 304.3 ± 0.2288
500
450
400
350
300
250

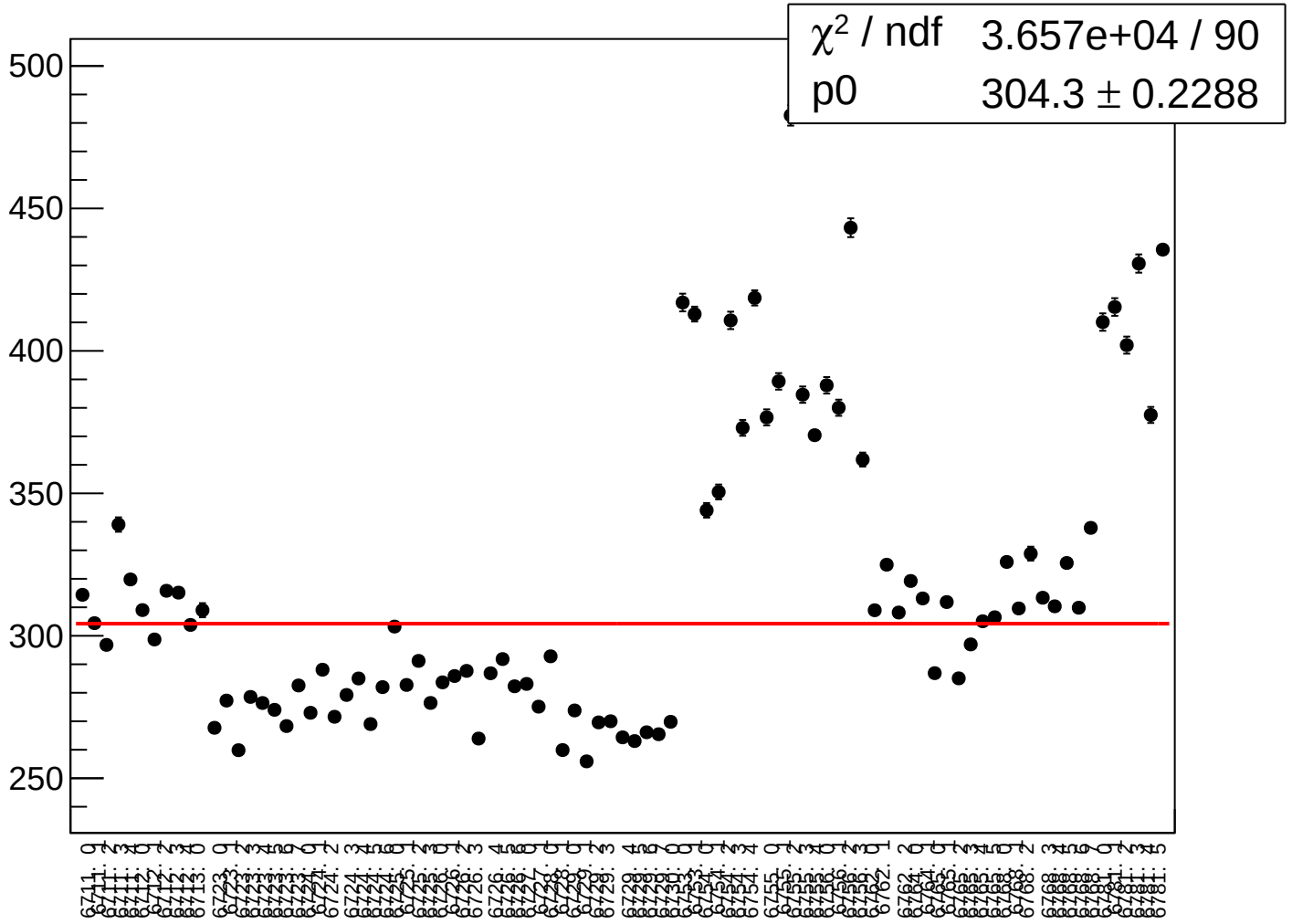

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 106.8 / 90
p0 −73.99 ± 51.73
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −39.05
Std Dev 0
2
1
0
−1
−2

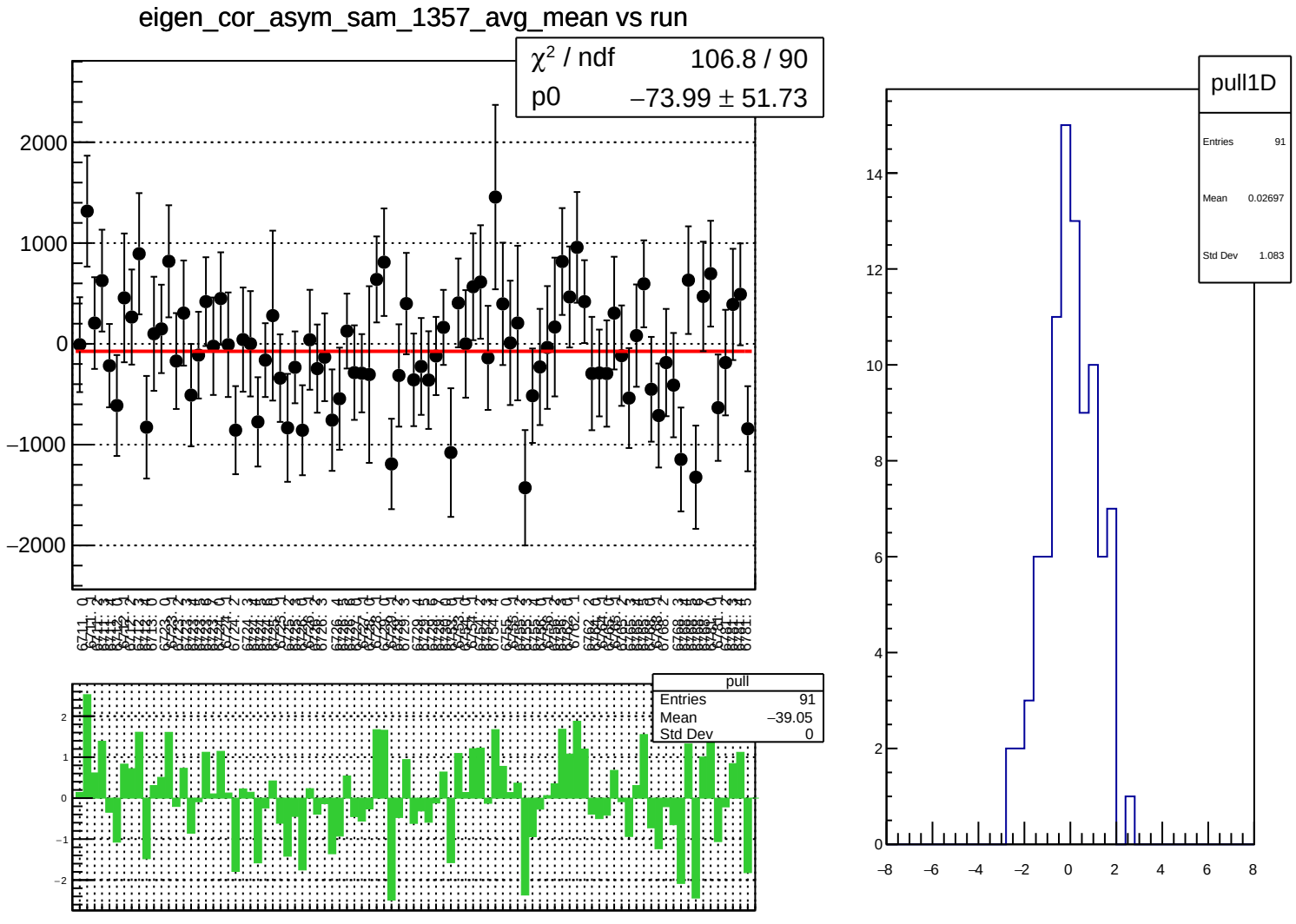

pull1D
Entries 91
Mean 0.02697
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

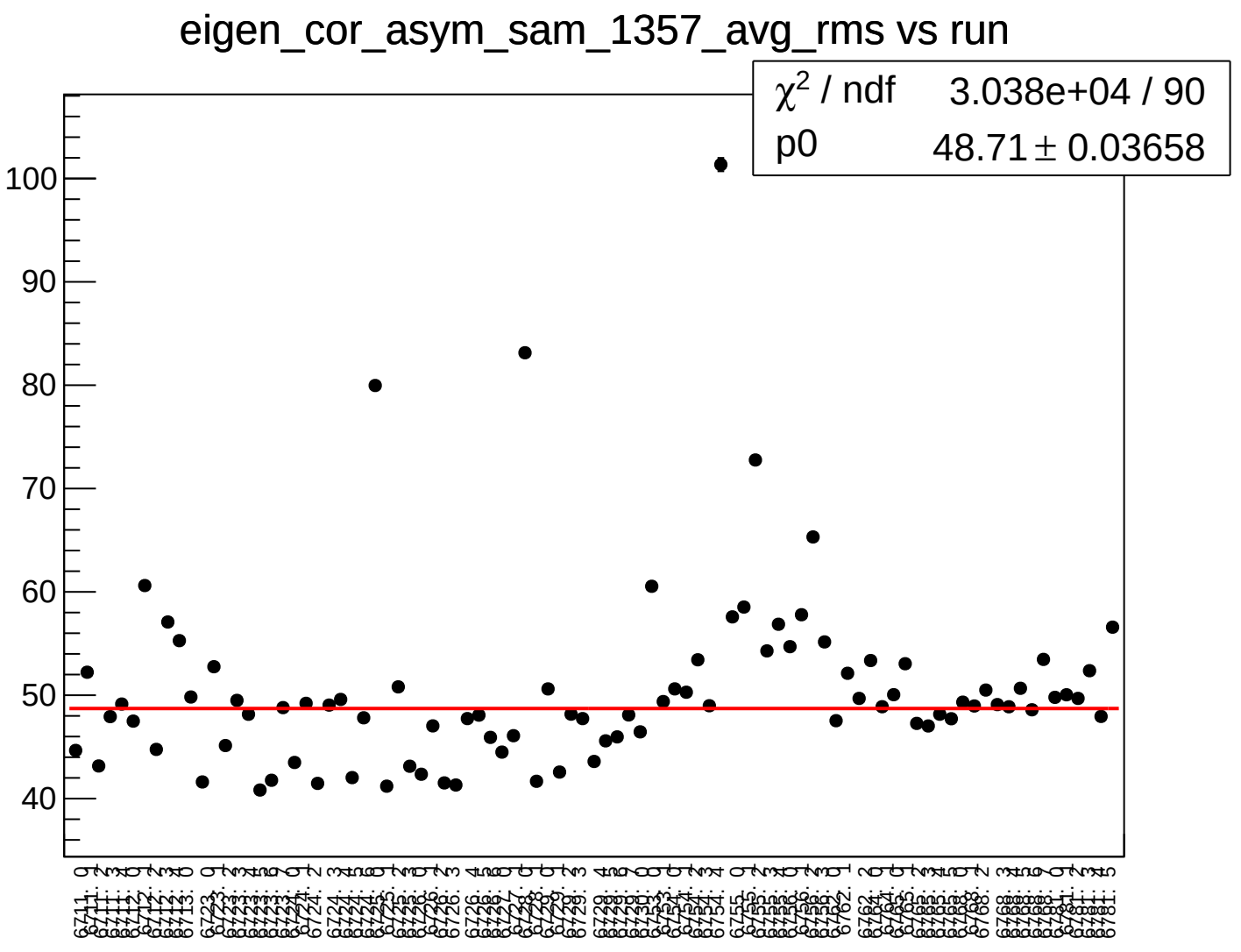

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 3.038e+04 / 90
p0 48.71 ± 0.03658
100
90
80
70
60
50
40

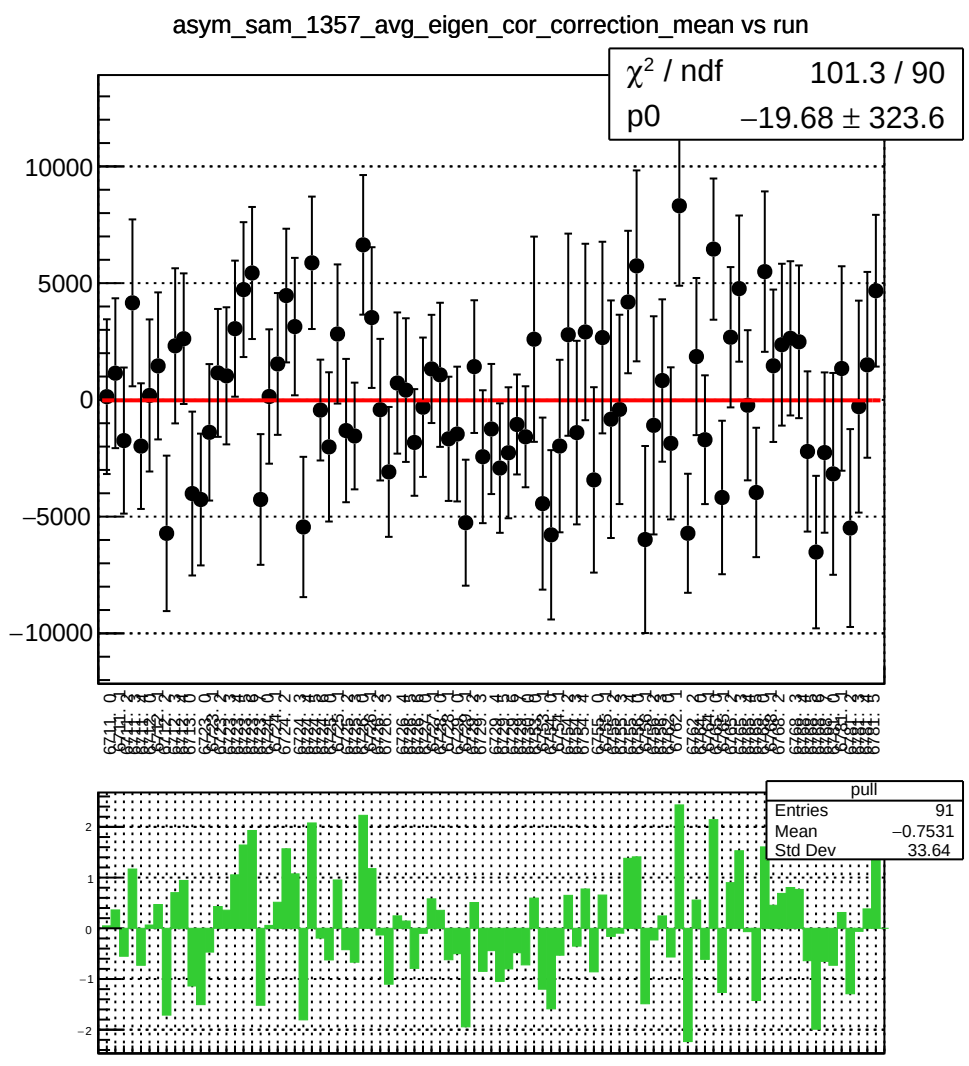

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 101.3 / 90
p0 −19.68 ± 323.6
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −0.7531
Std Dev 33.64
2
1
0
−1
−2

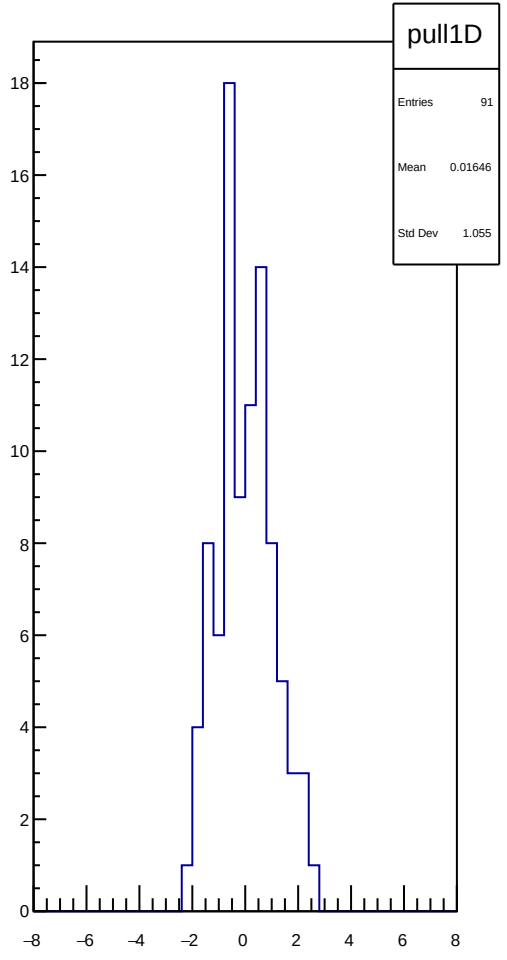

pull1D
Entries 91
Mean 0.01646
Std Dev 1.055
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 3.657e+04 / 90
p0 304.3 ± 0.2288
500
450
400
350
300
250


eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 106.8 / 90
p0 −73.99 ± 51.73
2000
1000
0
−1000
−2000
pull
Entries 91
Mean −39.05
Std Dev 0
pull1D
Entries 91
Mean 0.02697
Std Dev 1.083


eigen_cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 3.038e+04 / 90
p0 48.71 ± 0.03658
100
90
80
70
60
50
40


asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 101.3 / 90
p0 −19.68 ± 323.6
10000
5000
0
−5000
−10000
pull
Entries 91
Mean −0.7531
Std Dev 33.64
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.01646
Std Dev 1.055
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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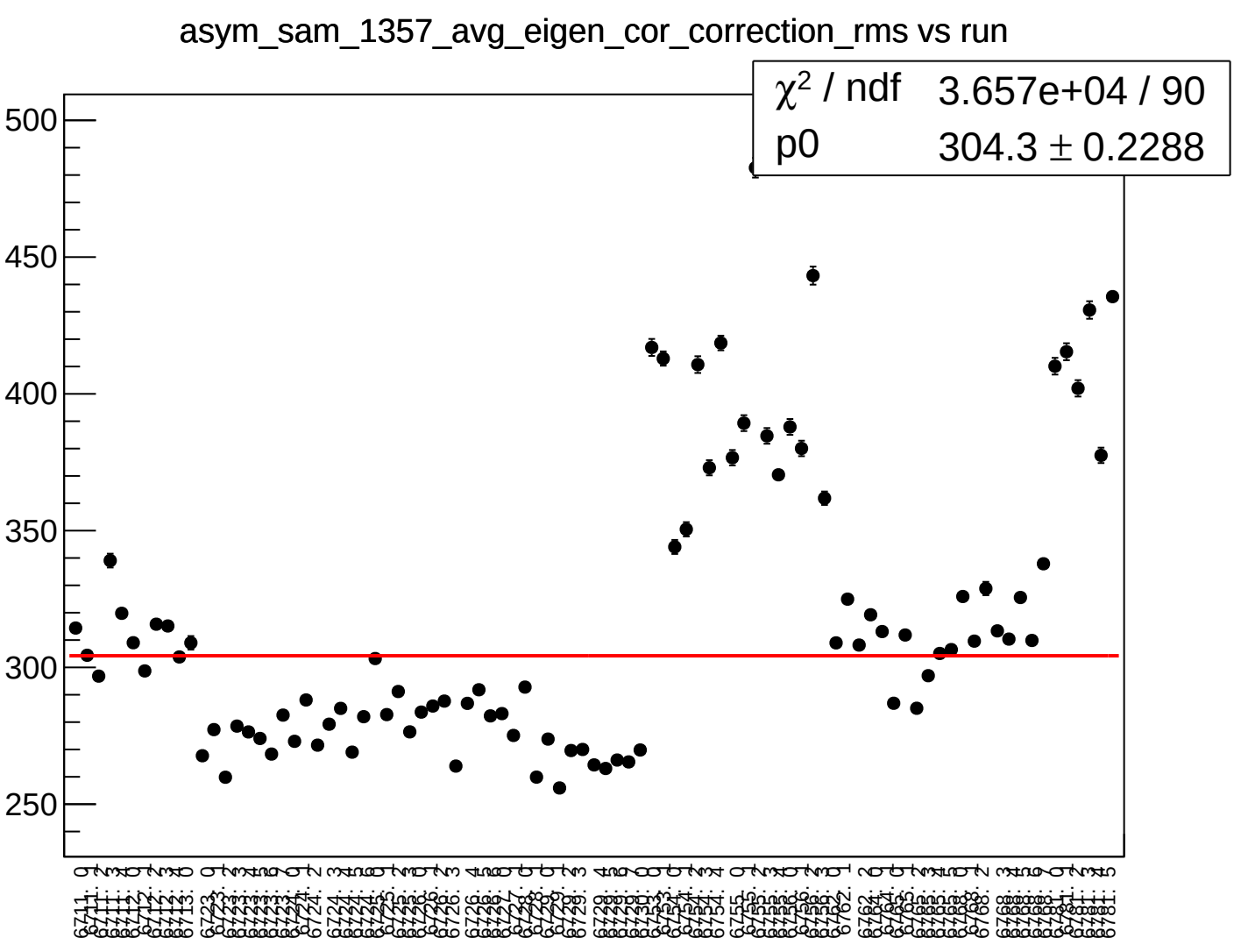
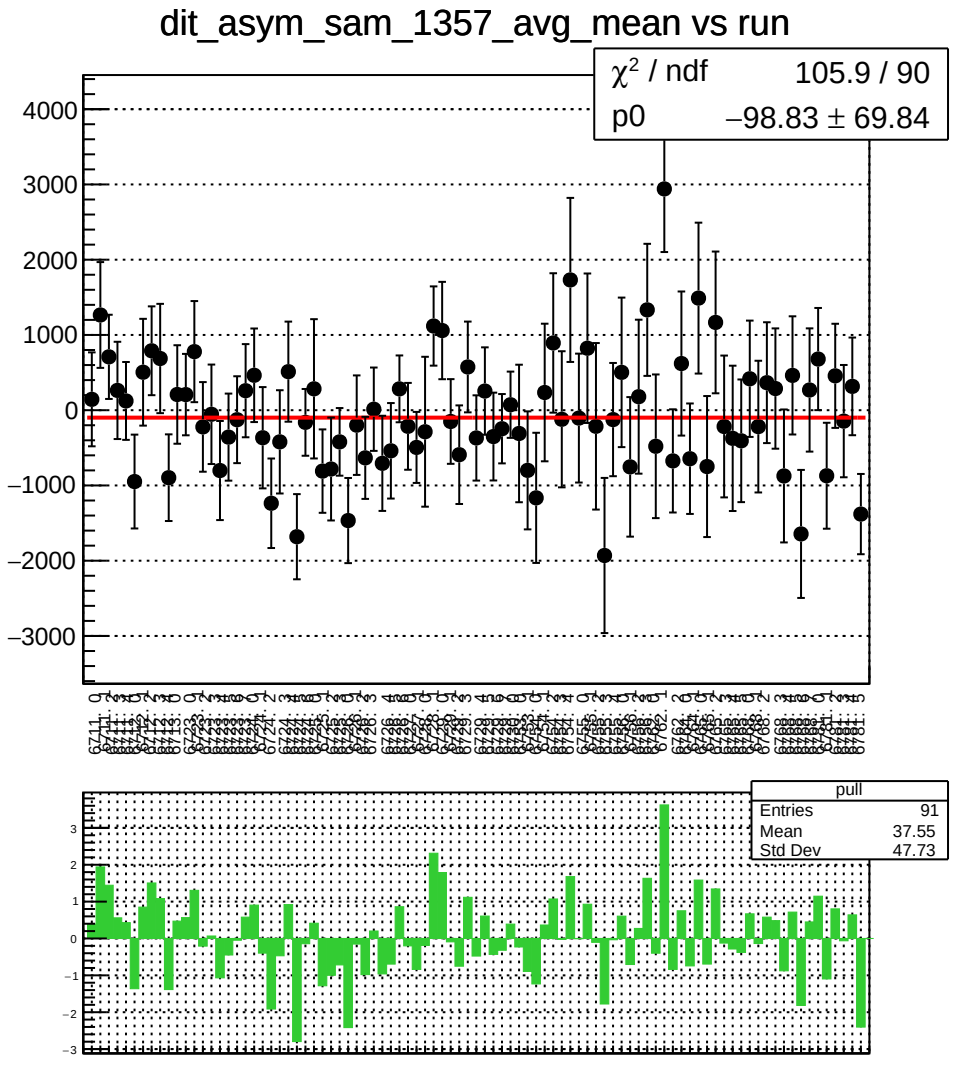
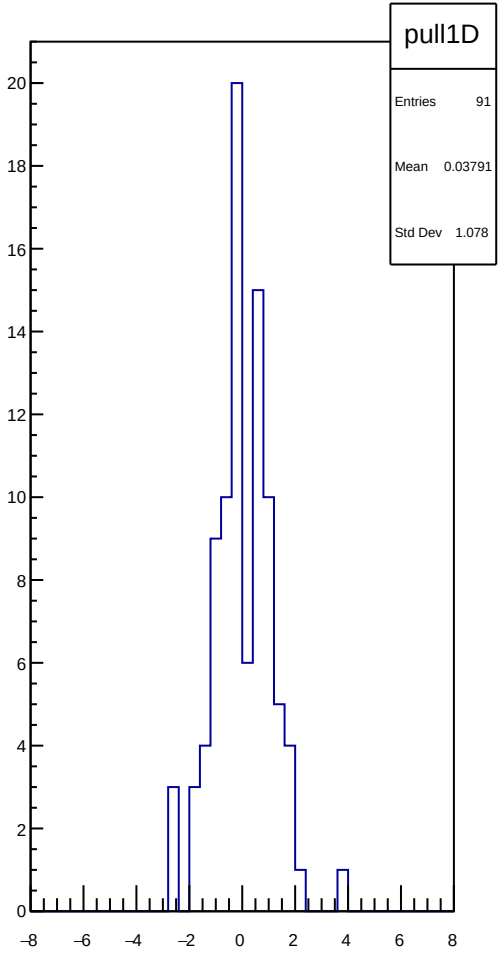
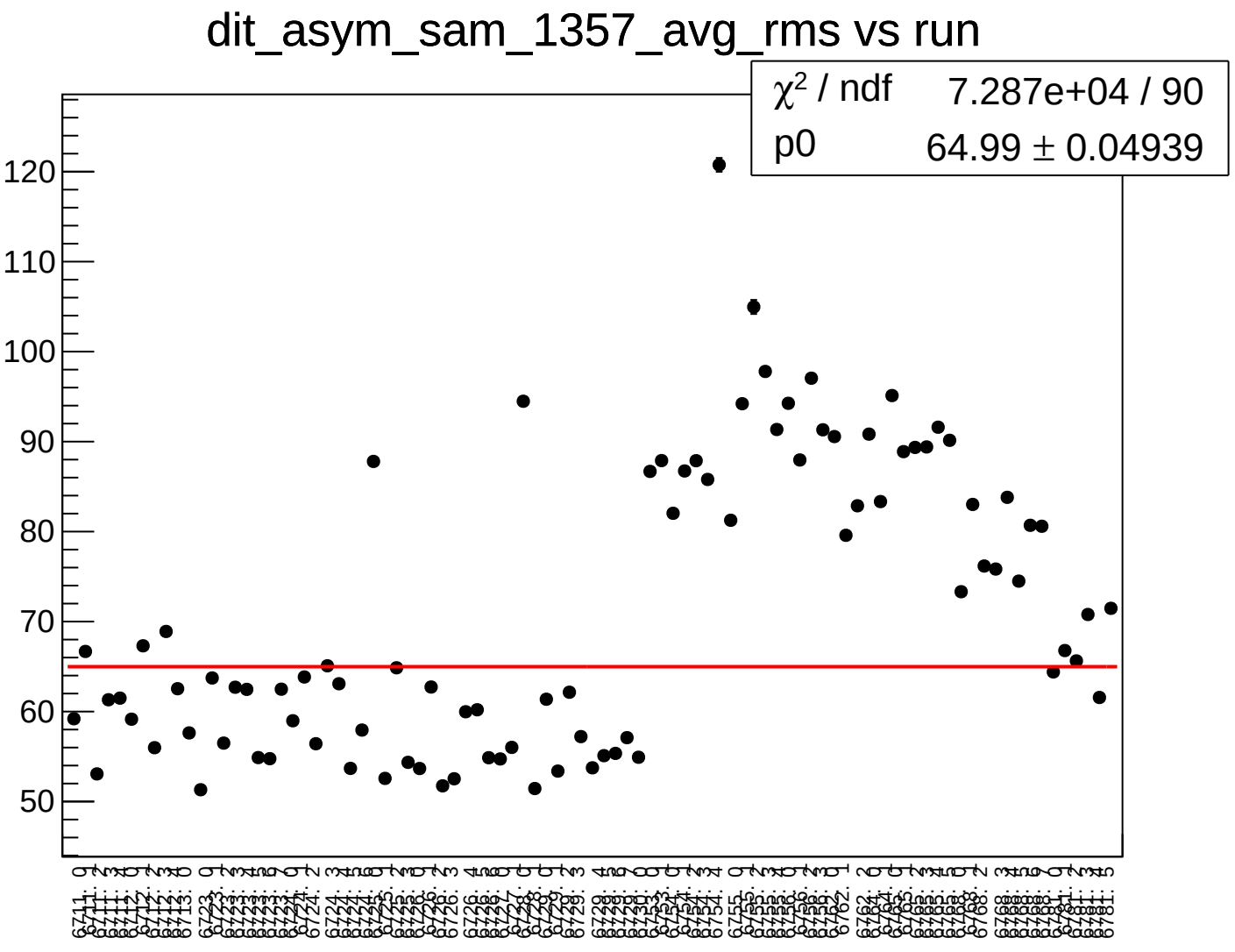
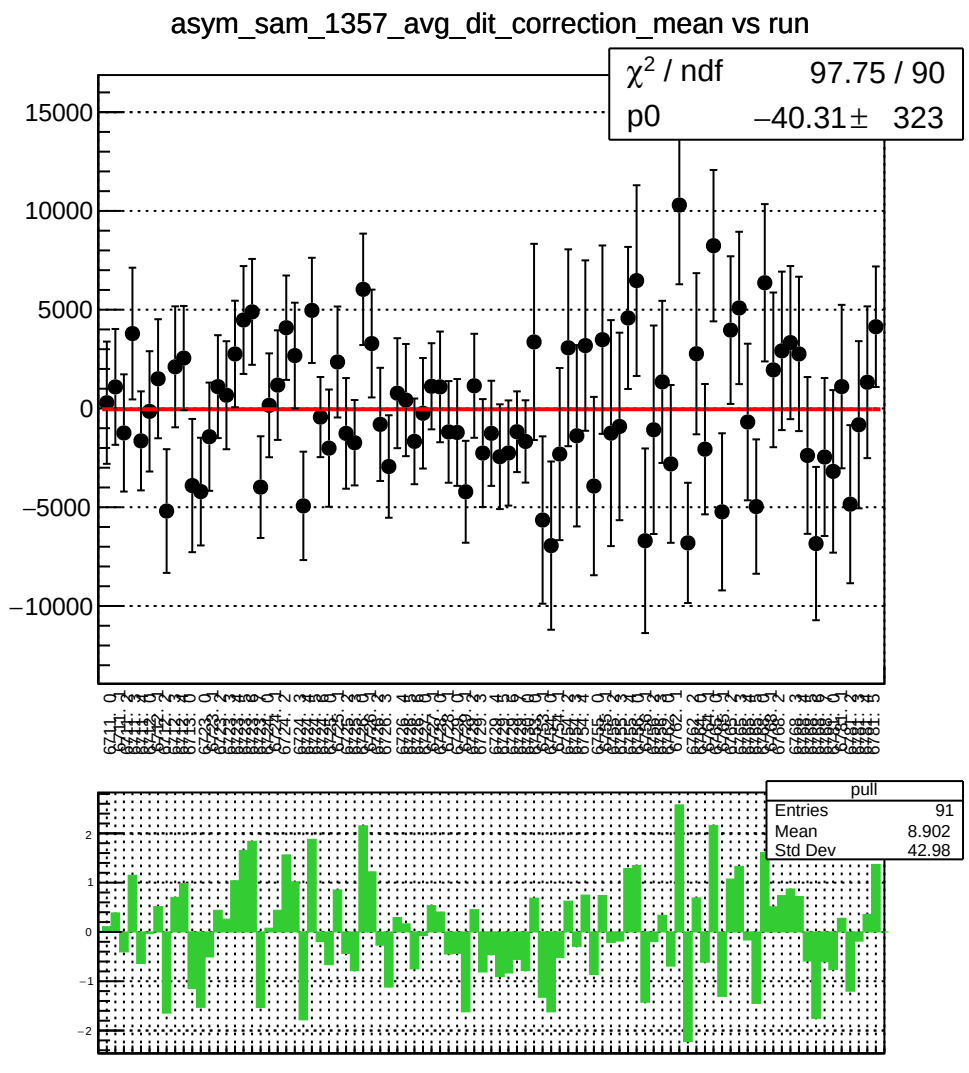
0
2
4
6
8

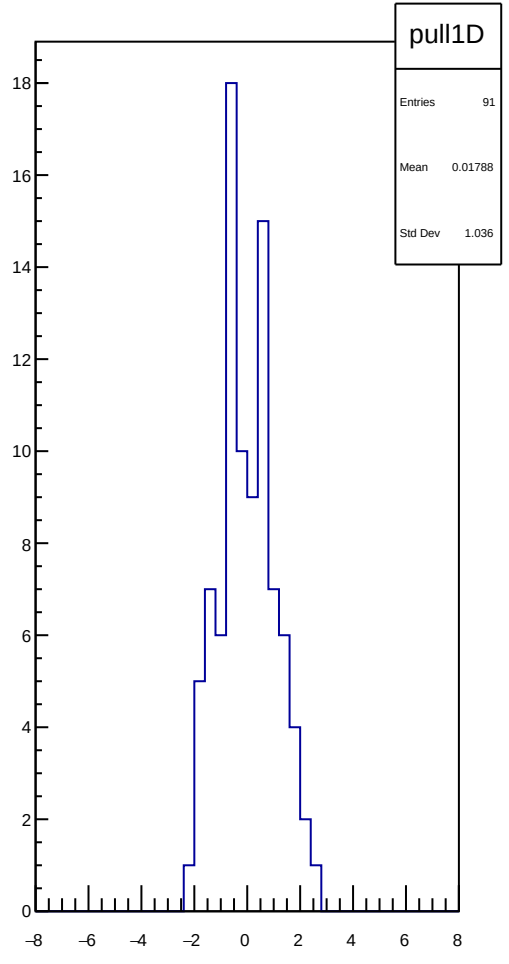

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.657e+04 / 90
p0 304.3 ± 0.2288
500
450
400
350
300
250

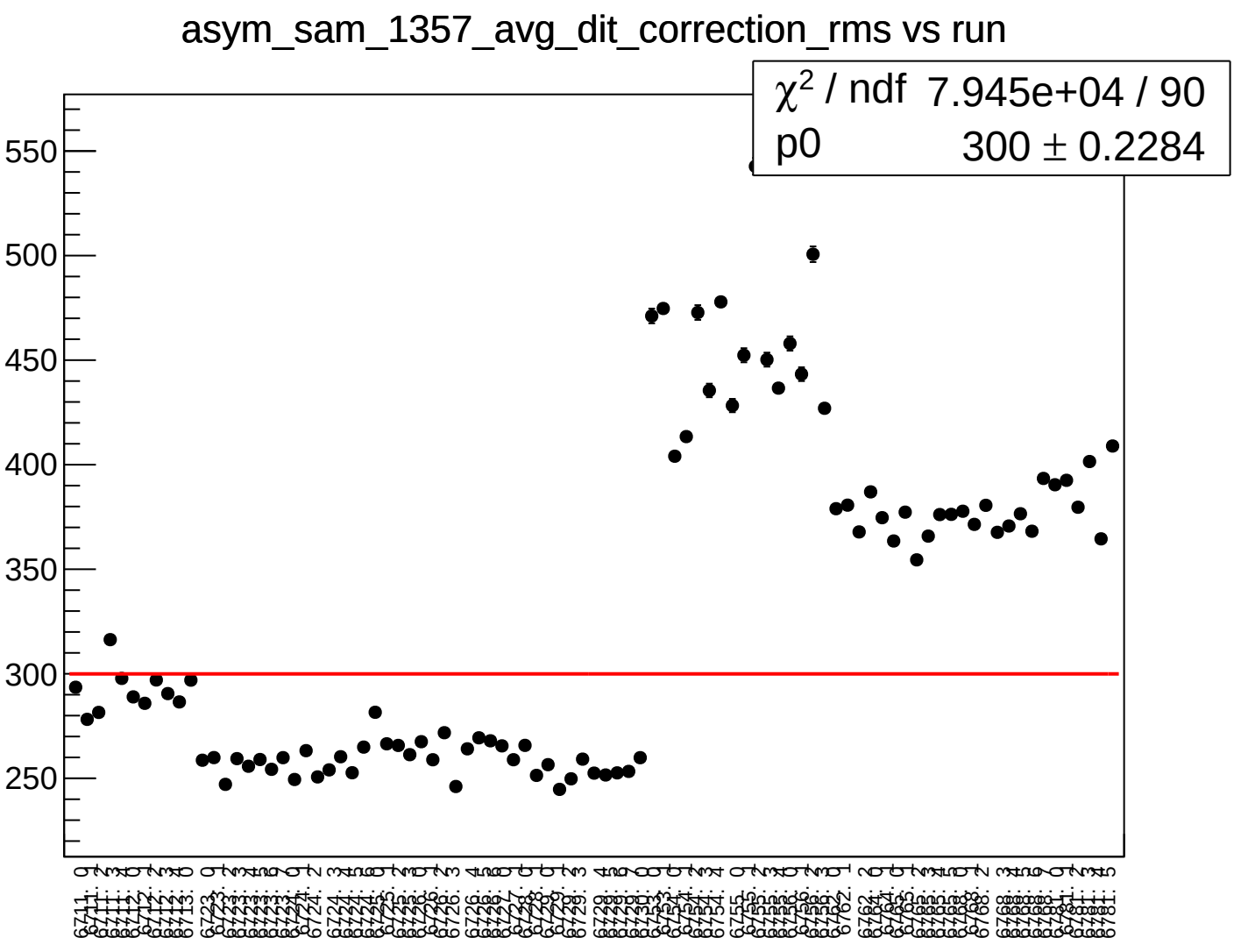

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 105.9 / 90
p0 −98.83 ± 69.84
pull
Entries 91
Mean 37.55
Std Dev 47.73

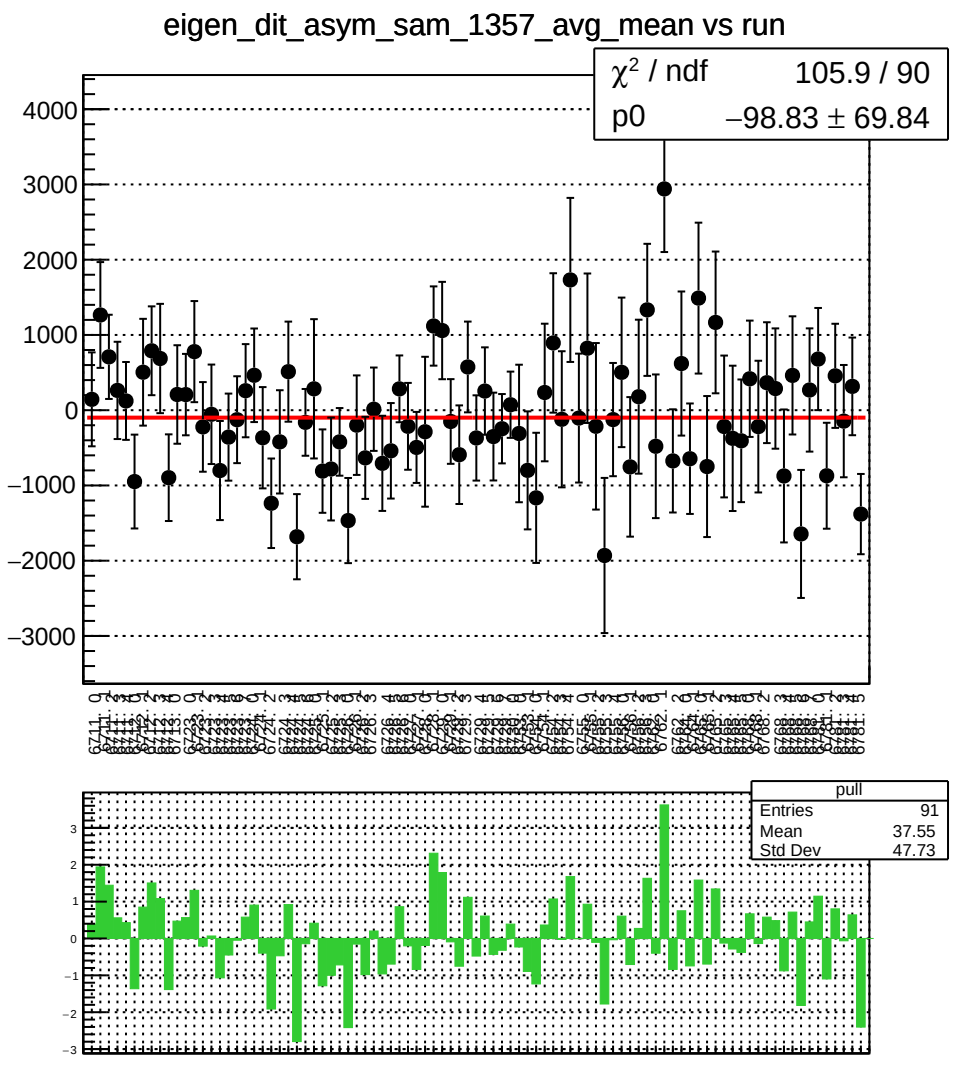

pull1D
Entries 91
Mean 0.03791
Std Dev 1.078

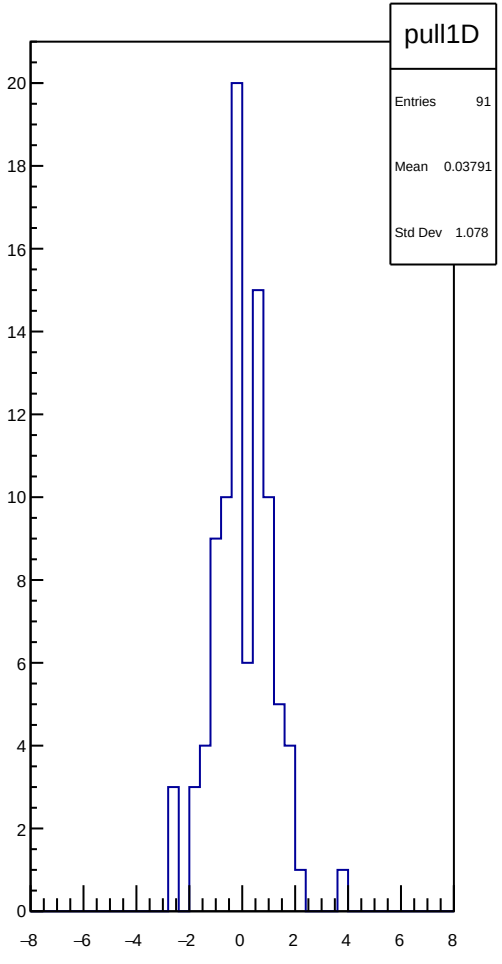

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 7.287e+04 / 90
p0 64.99 ± 0.04939
120
110
100
90
80
70
60
50

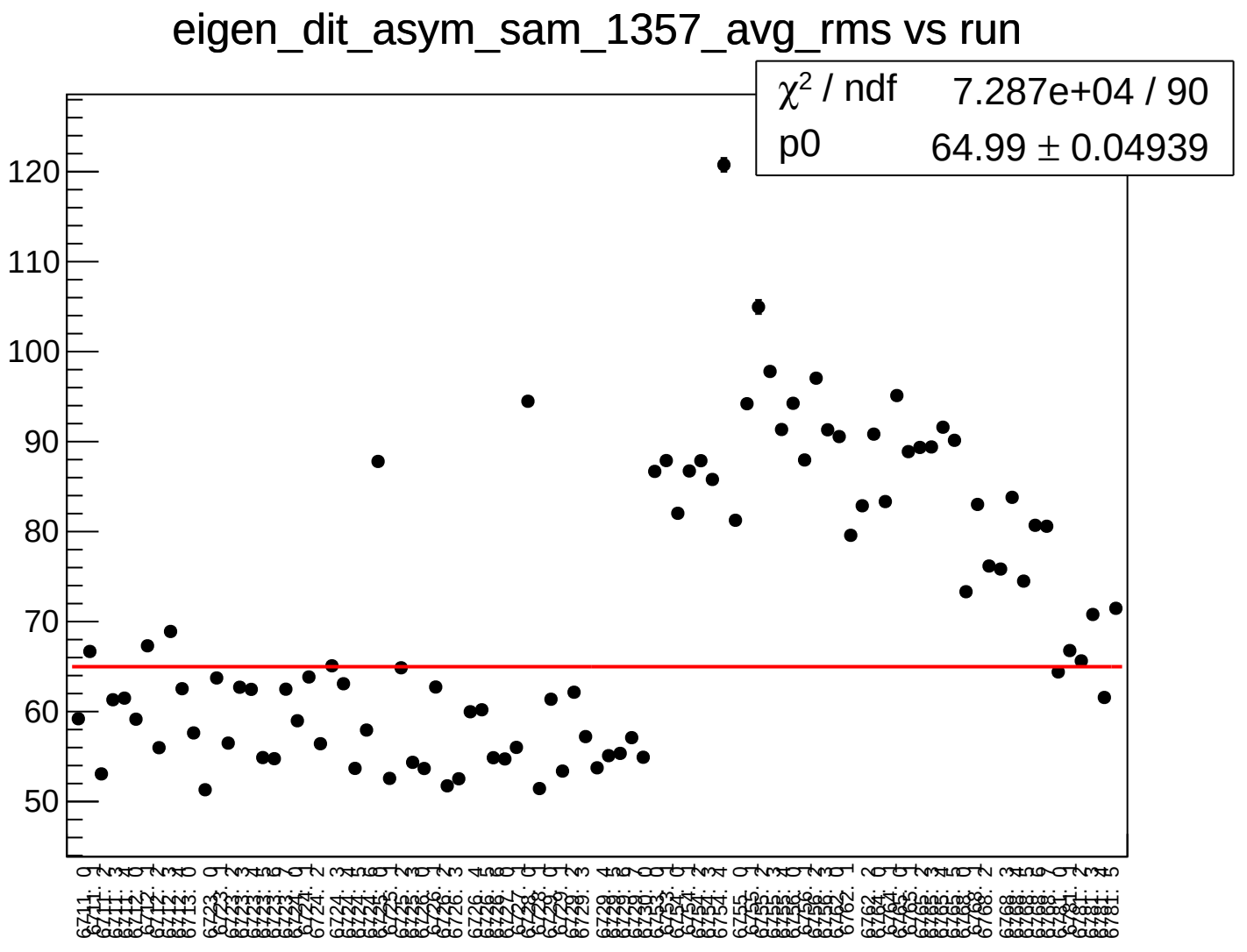

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 97.75 / 90
p0 −40.31 ± 323
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 8.902
Std Dev 42.98
2
1
0
−1
−2

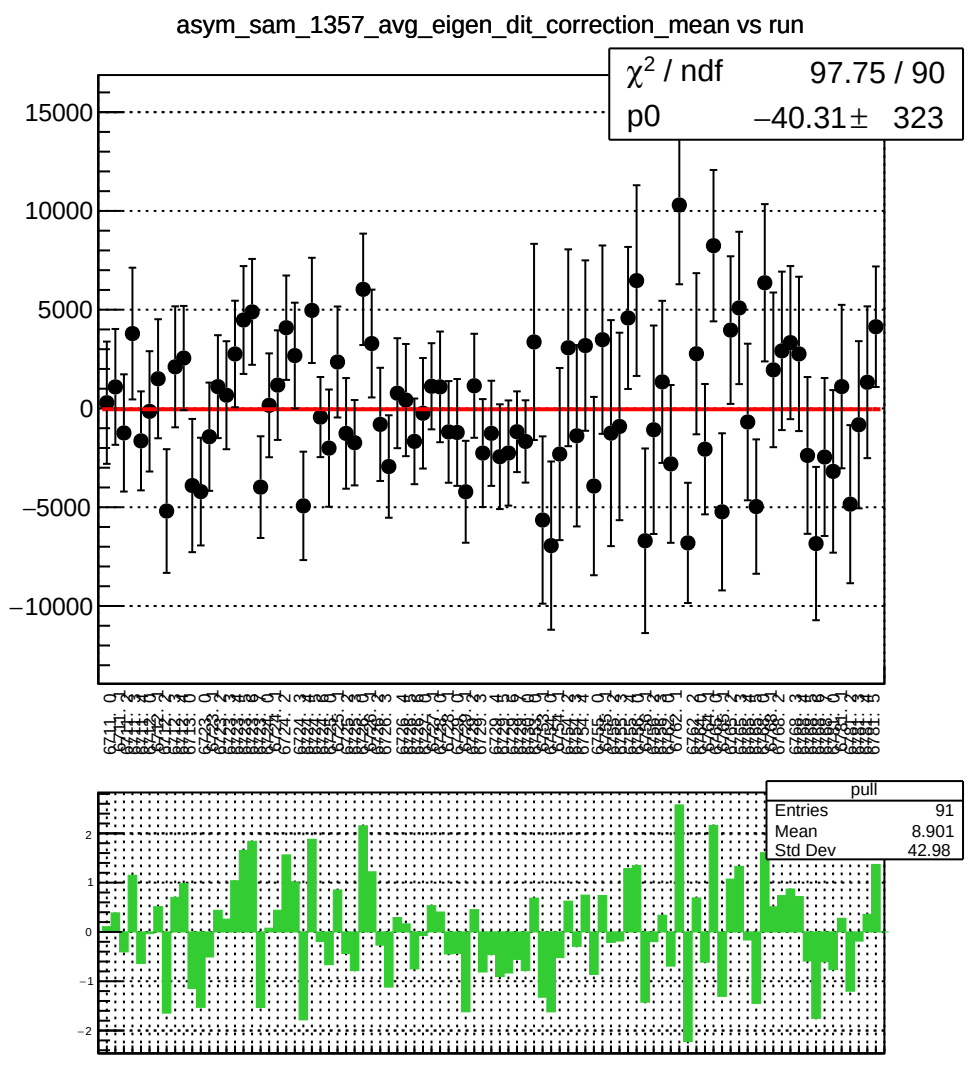

pull1D
Entries 91
Mean 0.01788
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

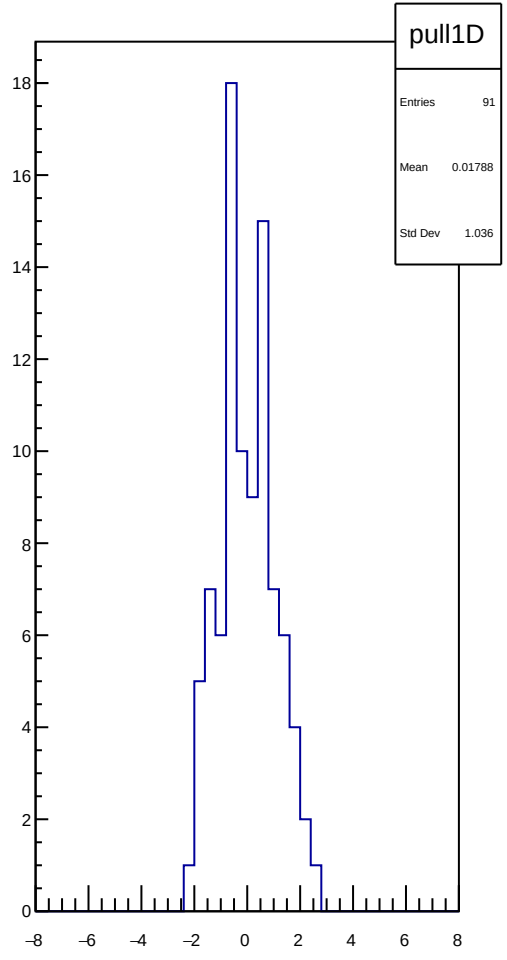

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 7.945e+04 / 90
p0 300 ± 0.2284
550
500
450
400
350
300
250

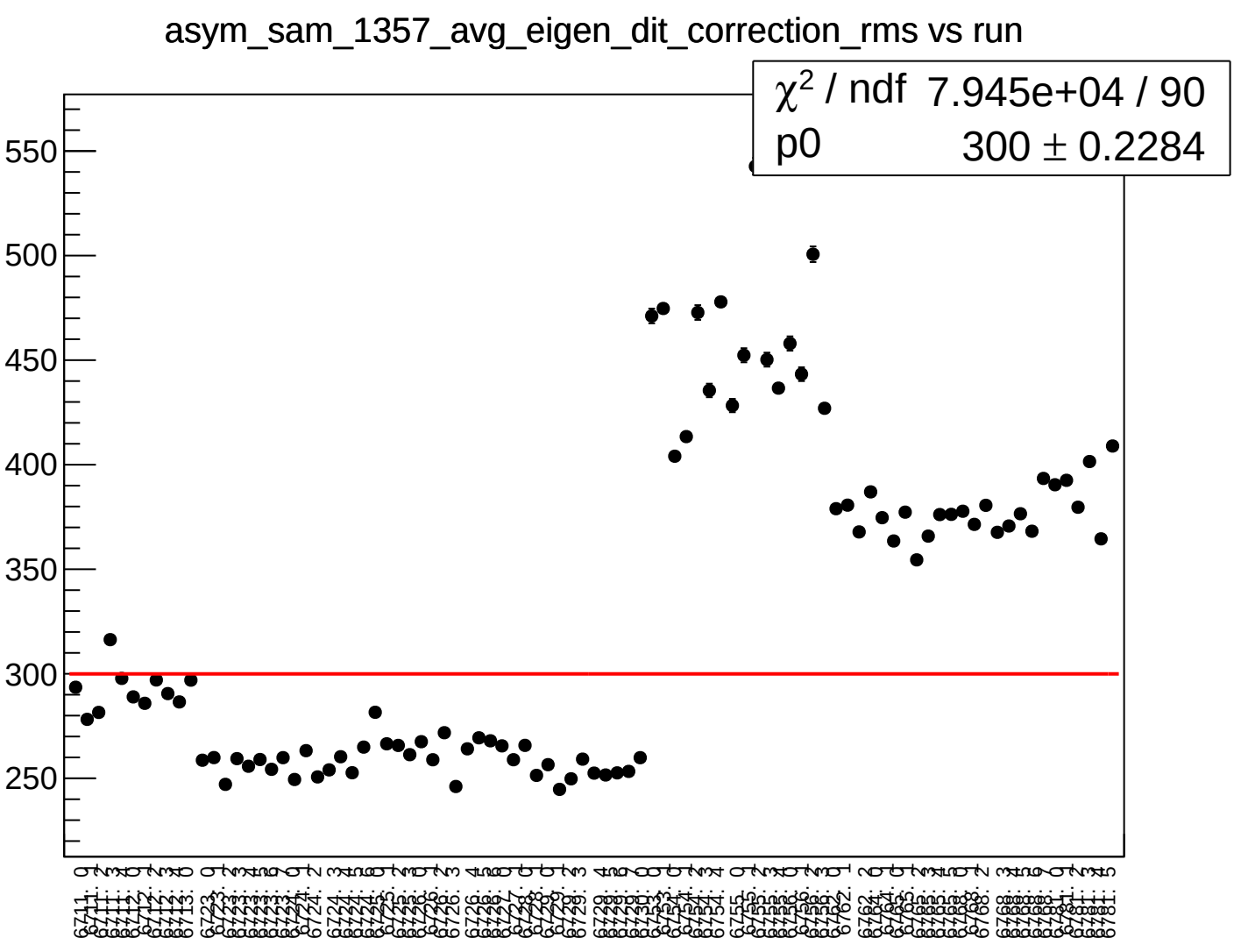

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 105.9 / 90
p0 −98.83 ± 69.84
pull
Entries 91
Mean 37.55
Std Dev 47.73

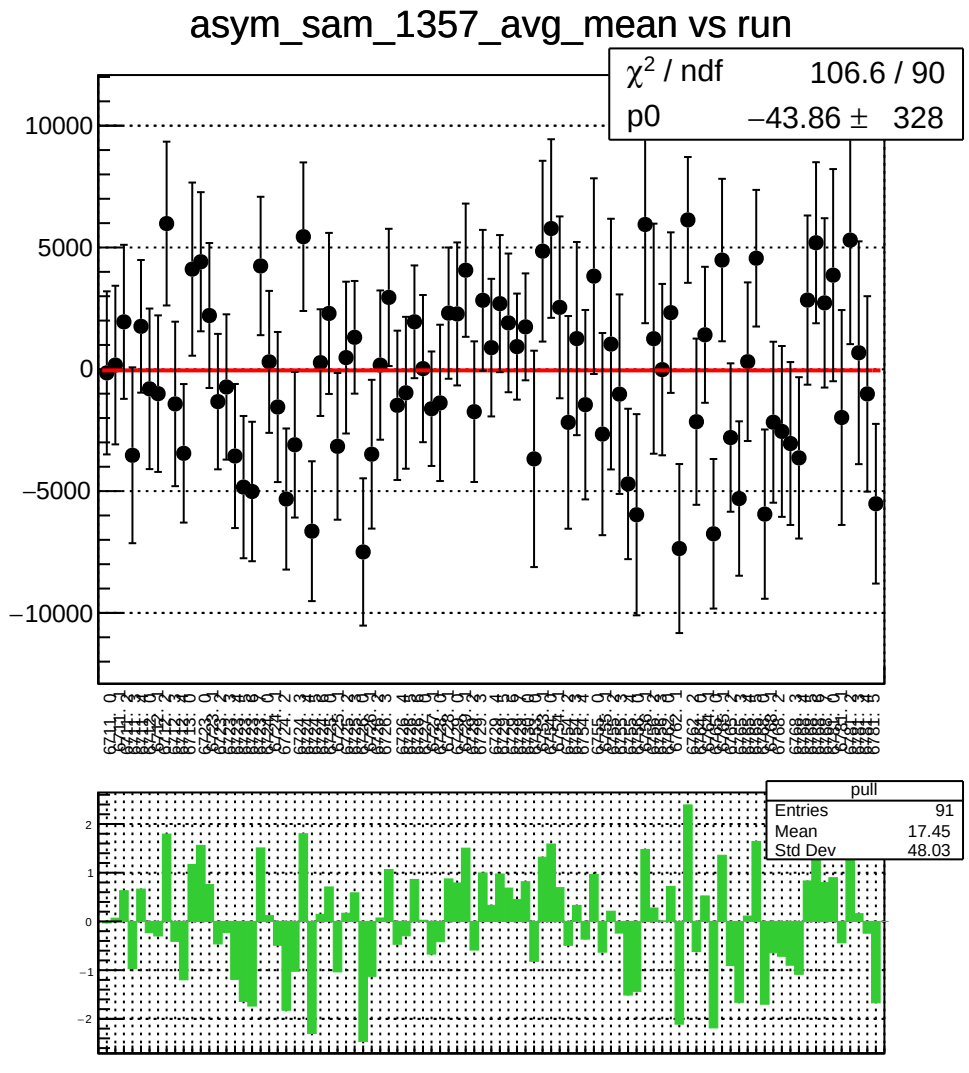

pull1D
Entries 91
Mean 0.03791
Std Dev 1.078

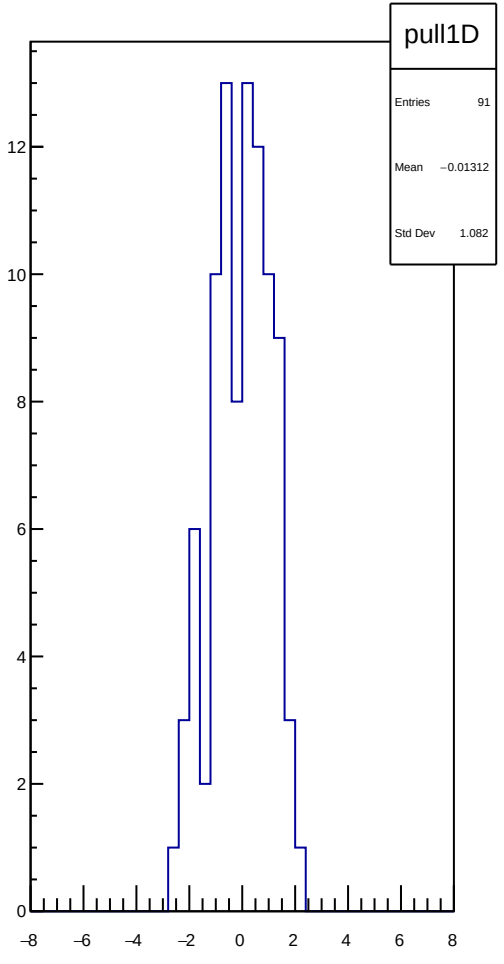

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 7.287e+04 / 90
p0 64.99 ± 0.04939
120
110
100
90
80
70
60
50

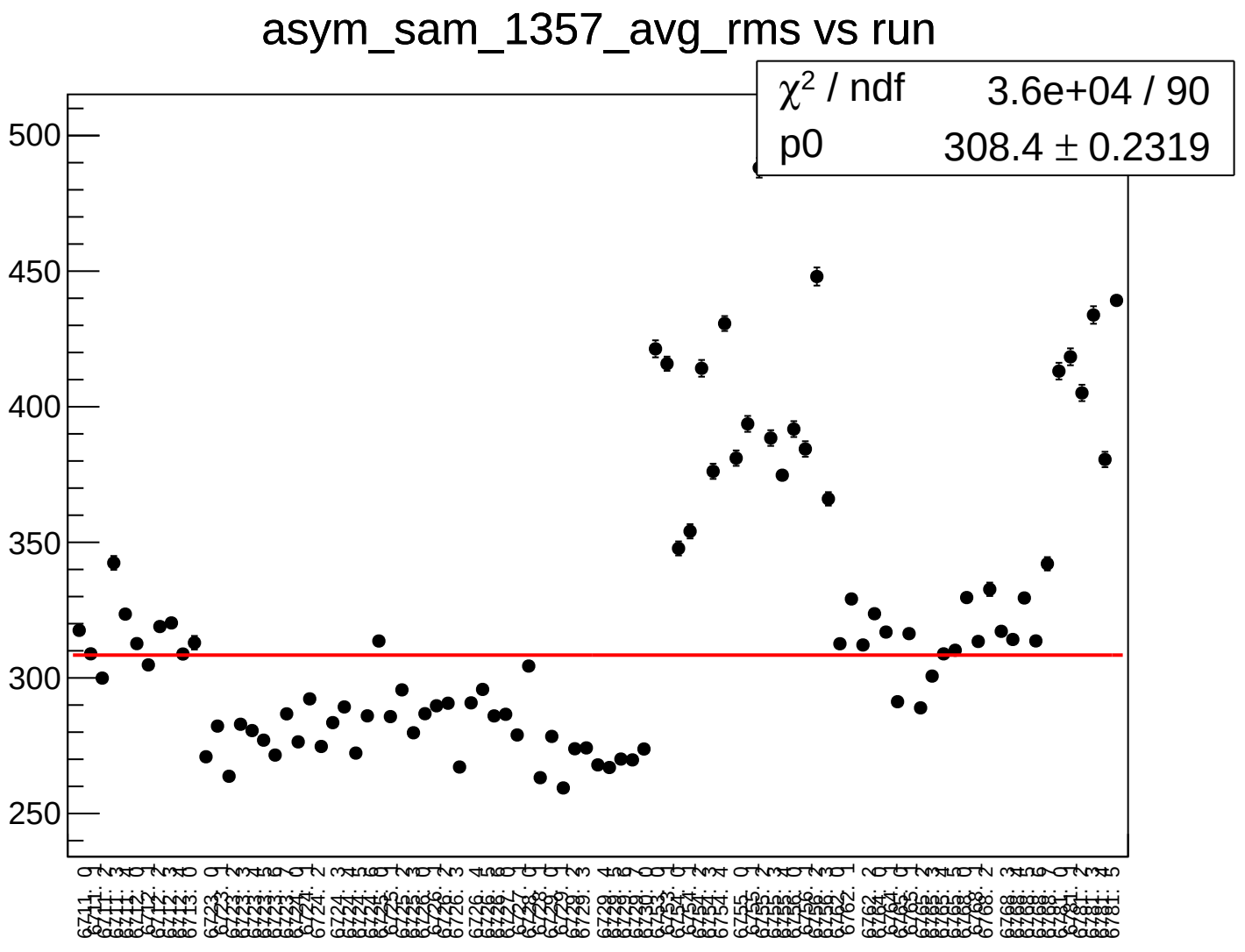

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.75 / 90
p0 −40.31 ± 323
15000
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 8.901
Std Dev 42.98
2
1
0
−1
−2

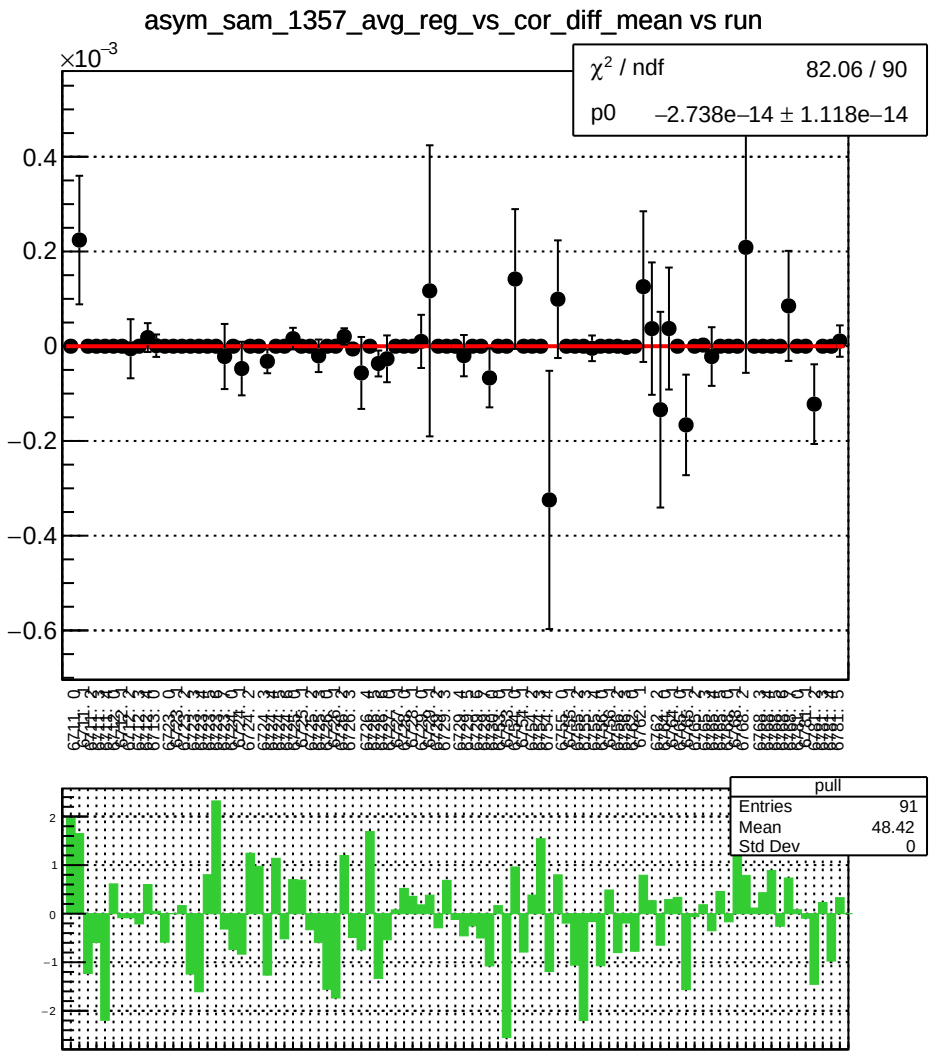

pull1D
Entries 91
Mean 0.01788
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

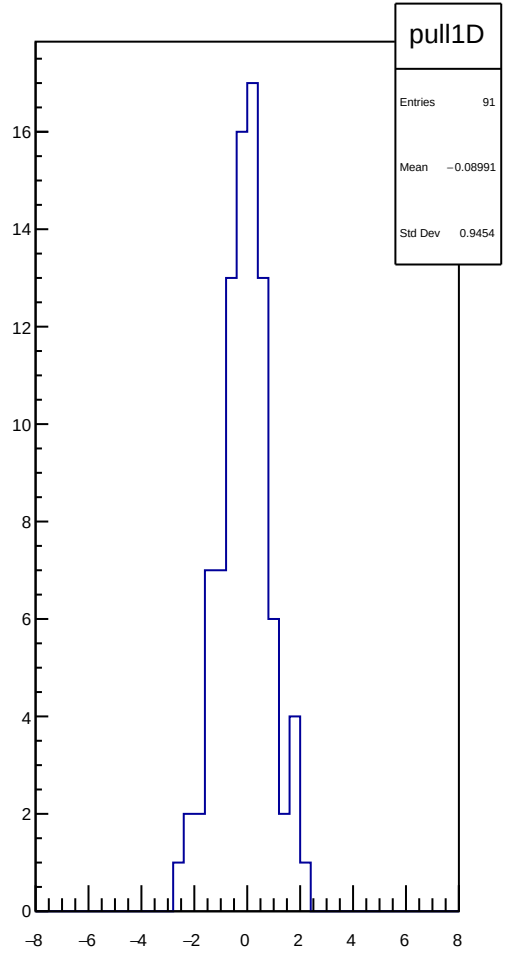

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 7.945e+04 / 90
p0 300 ± 0.2284
550
500
450
400
350
300
250

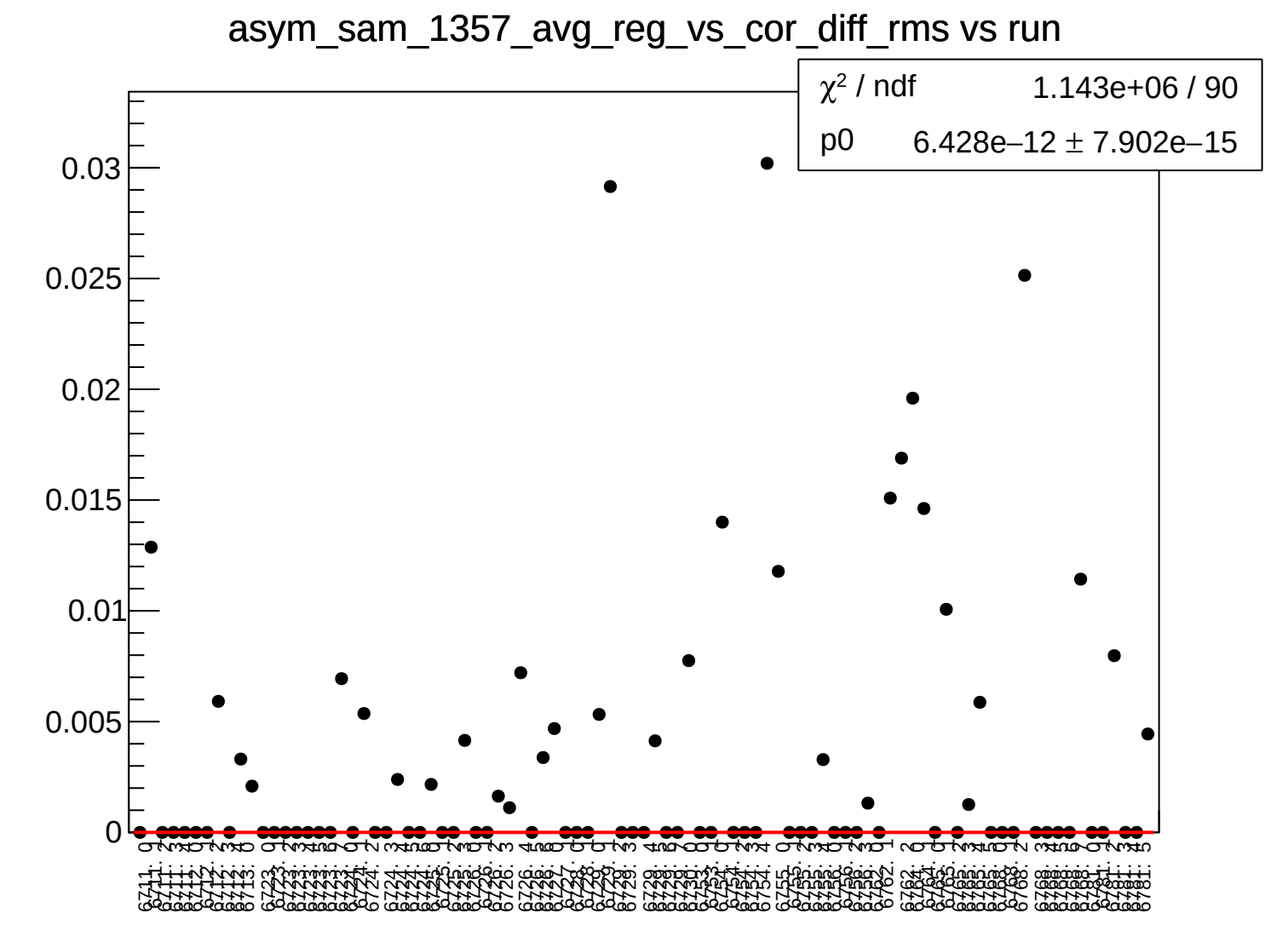

asym_sam_1357_avg_mean vs run
χ² / ndf 106.6 / 90
p0 −43.86 ± 328
10000
5000
0
−5000
−10000
pull
Entries 91
Mean 17.45
Std Dev 48.03
2
1
0
−1
−2

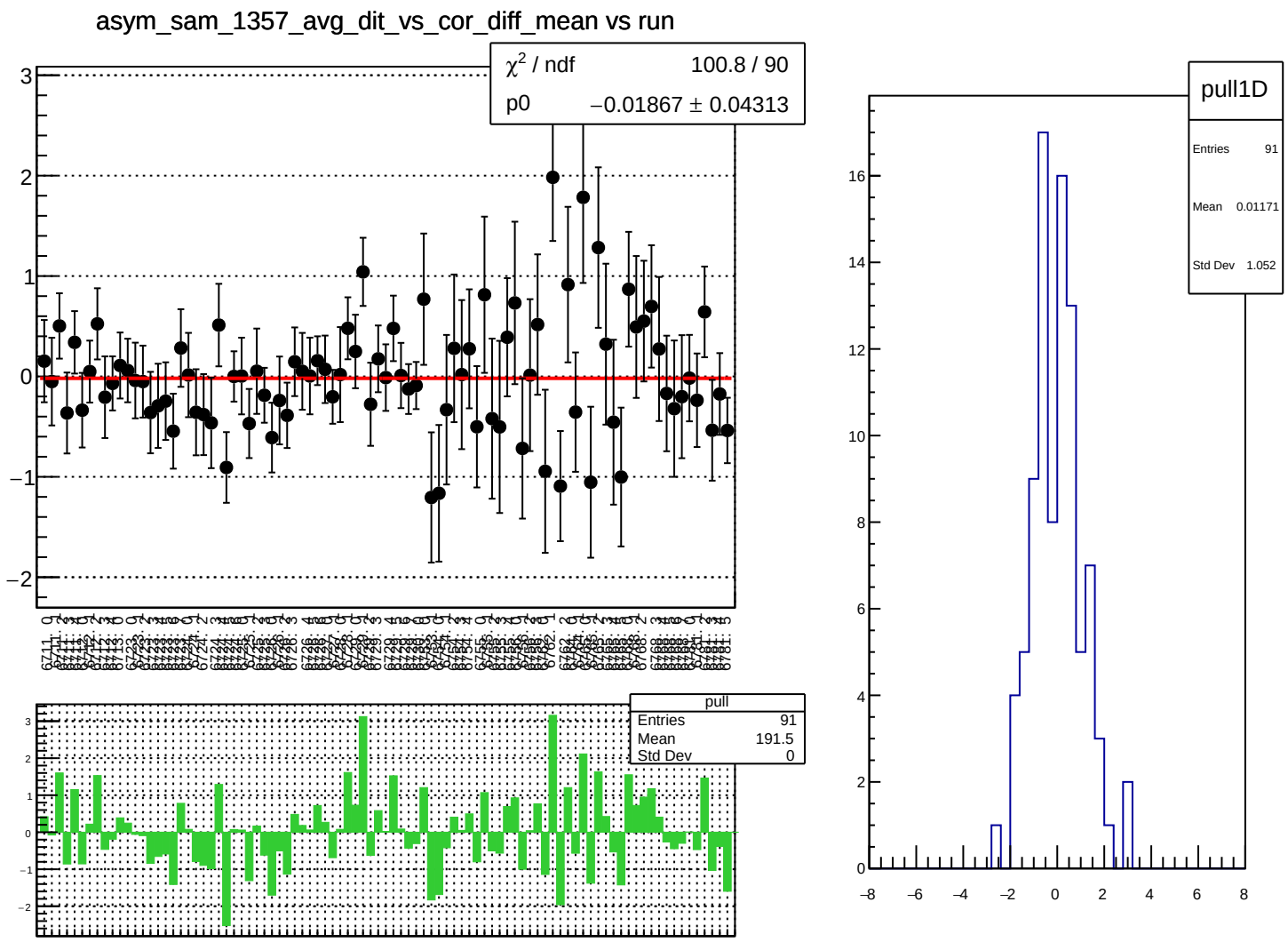

pull1D
Entries 91
Mean −0.01312
Std Dev 1.082
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

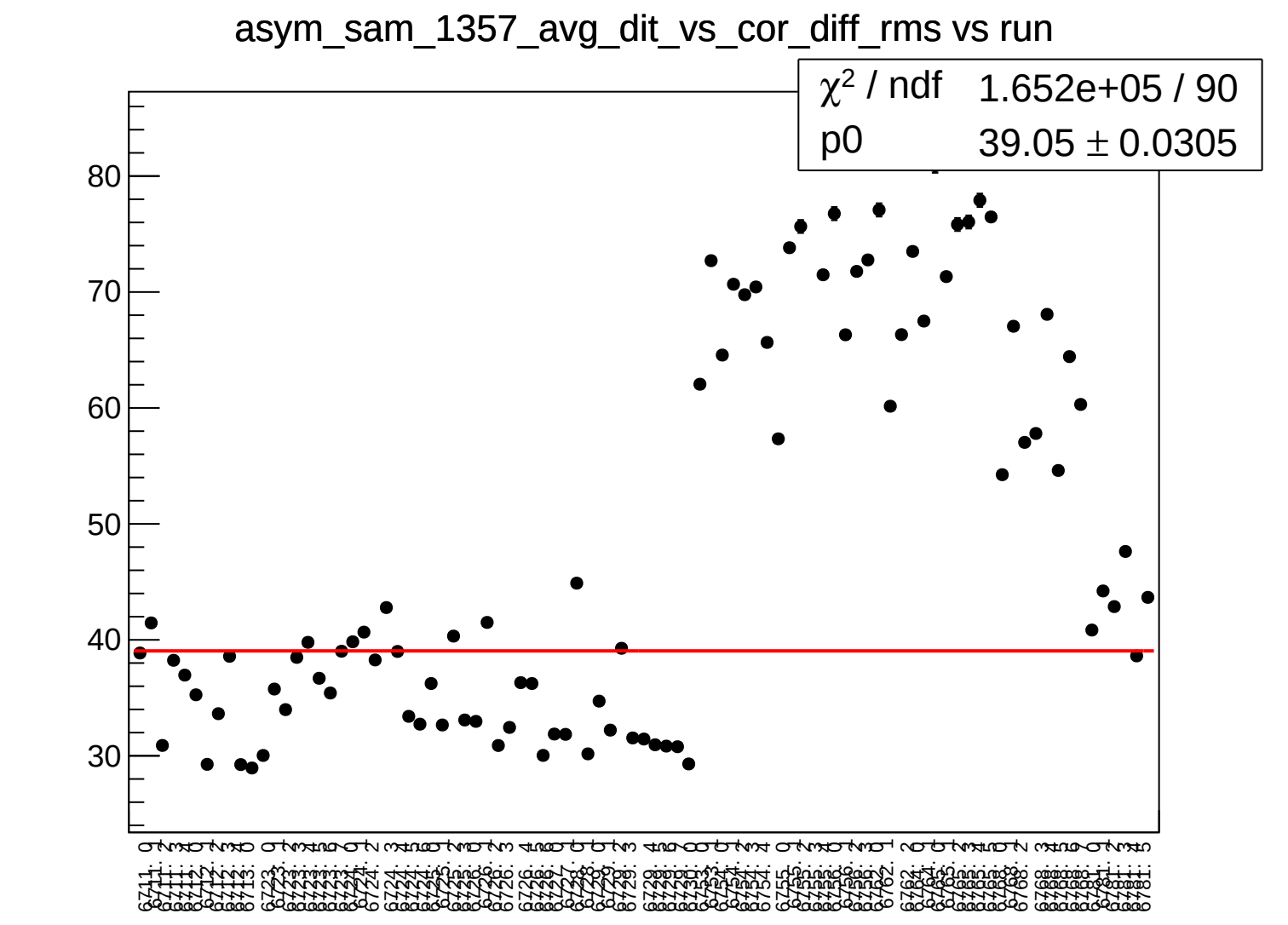

asym_sam_1357_avg_rms vs run
χ² / ndf 3.6e+04 / 90
p0 308.4 ± 0.2319
500
450
400
350
300
250

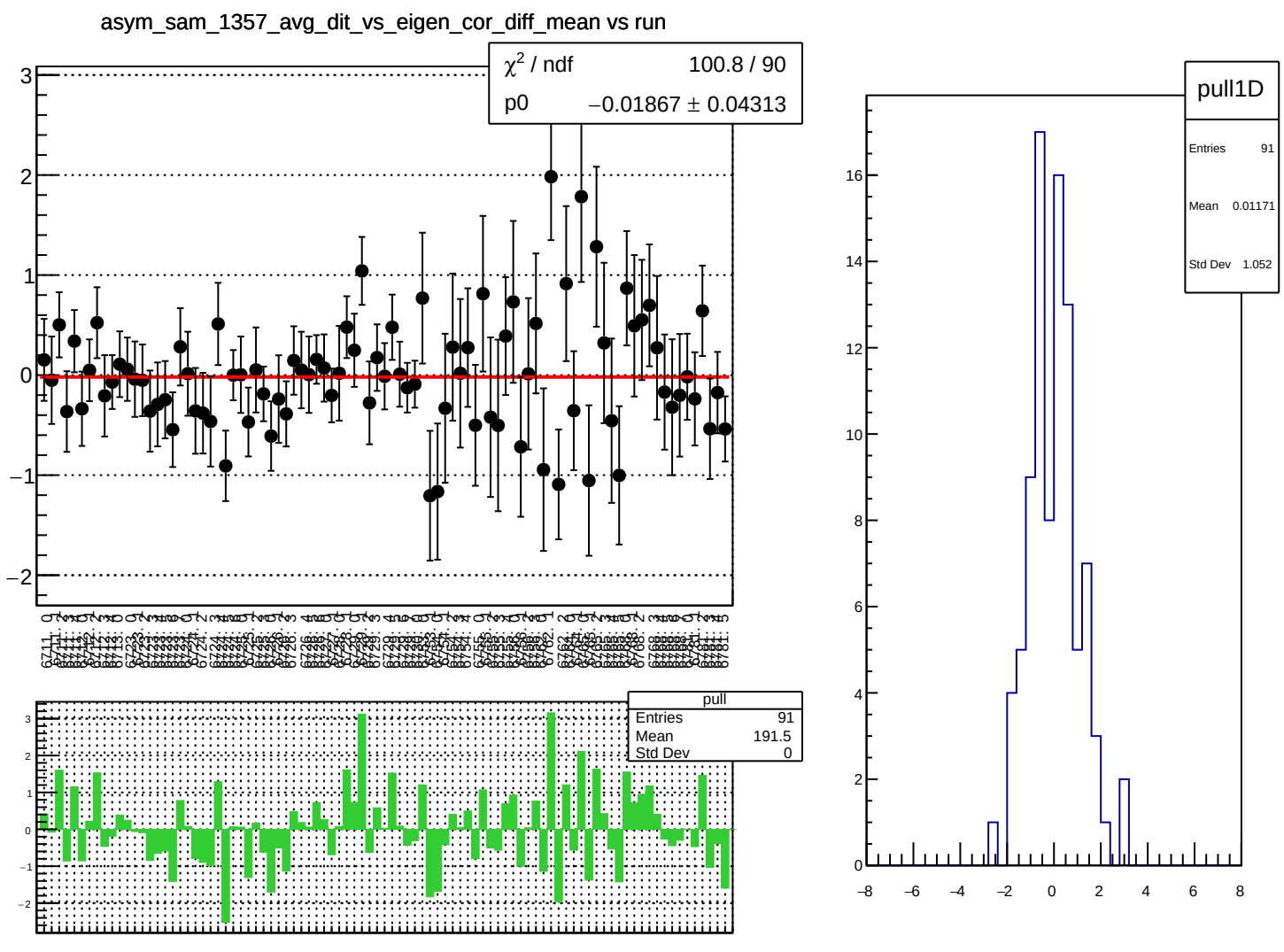

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 82.06 / 90
p0 −2.738e−14 ± 1.118e−14
pull
Entries 91
Mean 48.42
Std Dev 0

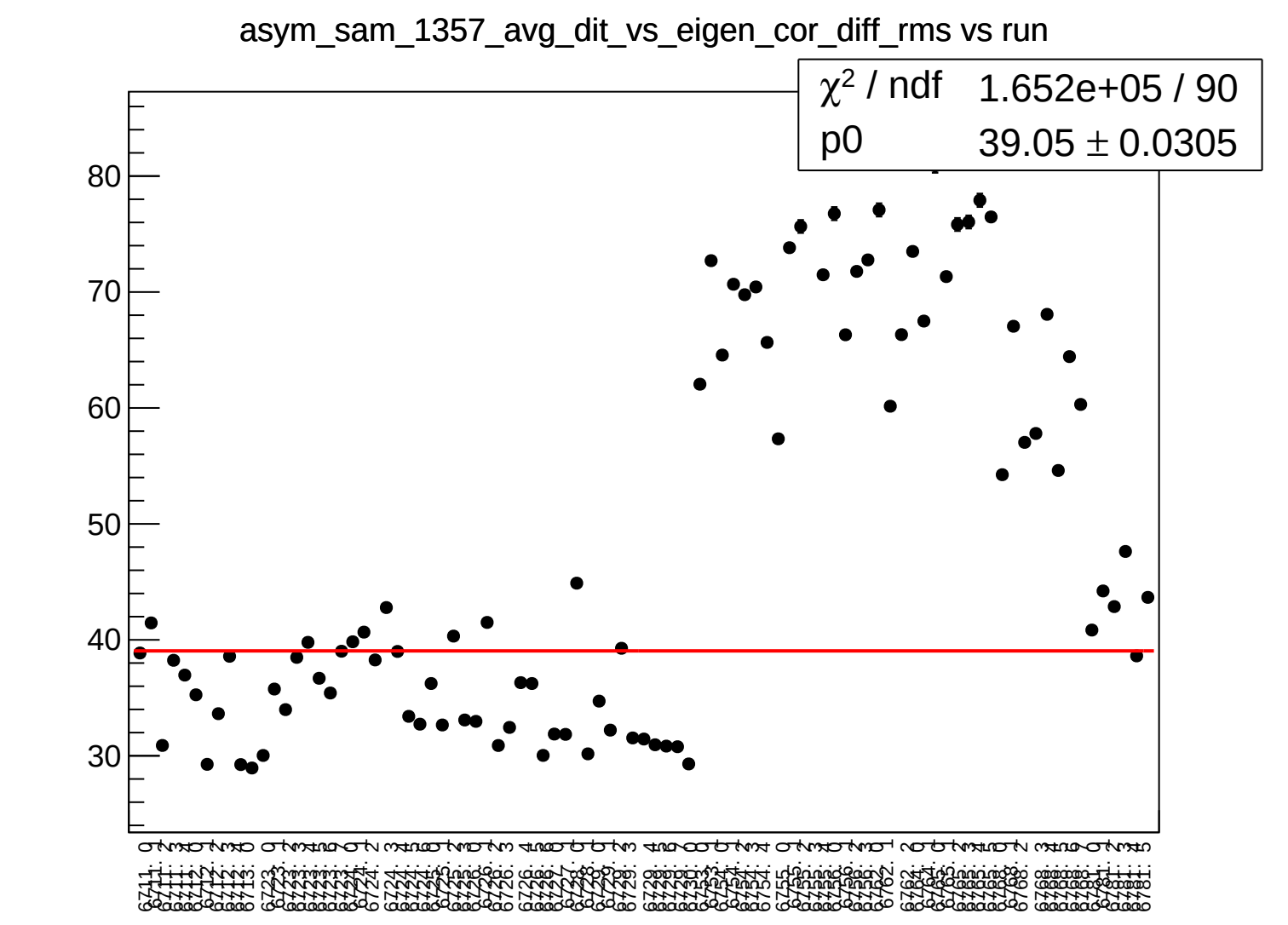

pull1D
Entries 91
Mean −0.08991
Std Dev 0.9454

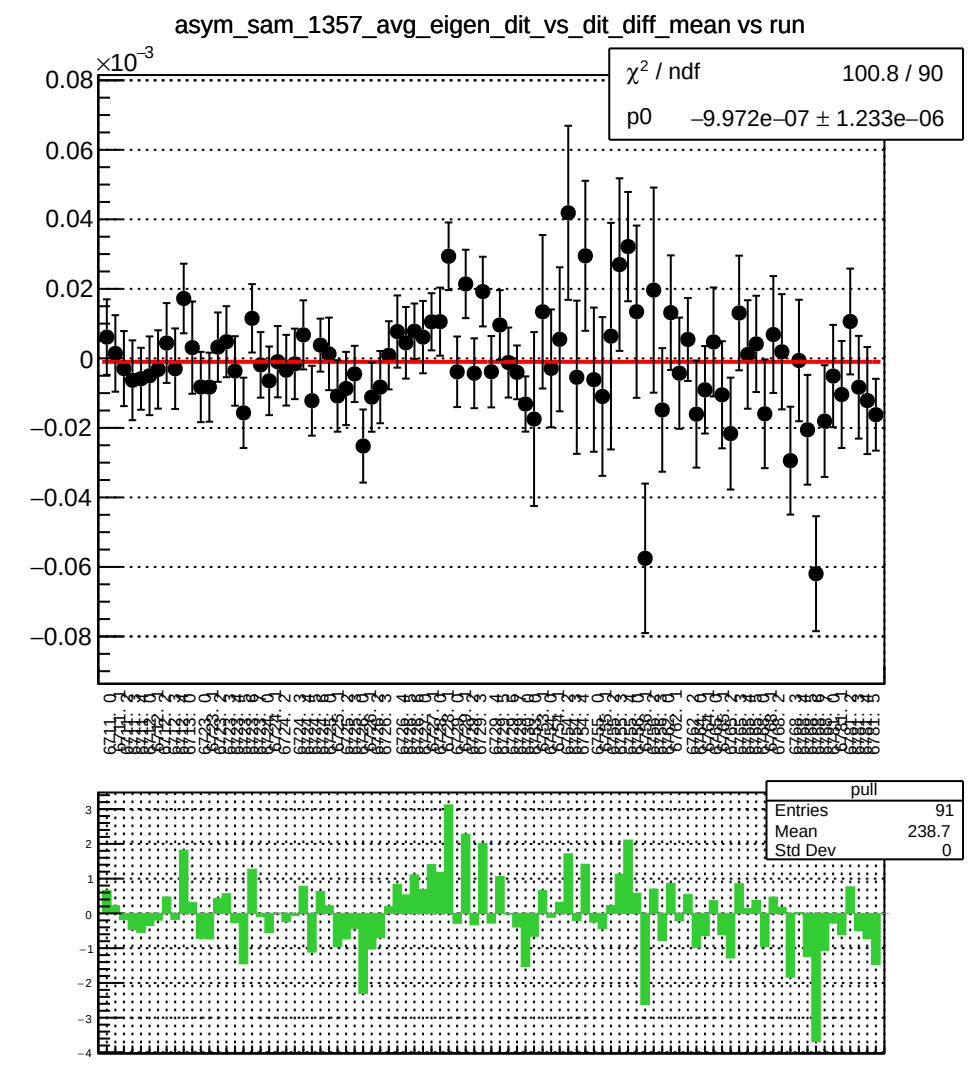

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.143e+06 / 90
p0 6.428e−12 ± 7.902e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

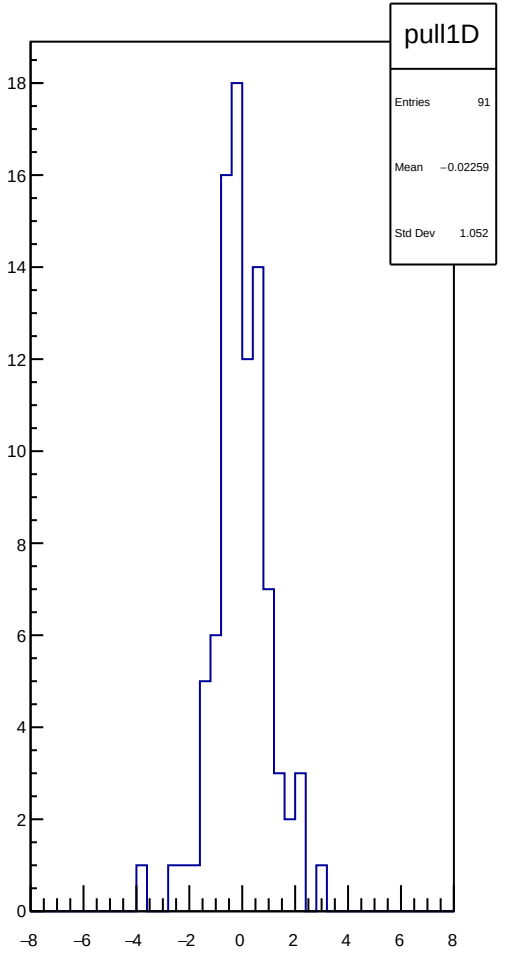

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 90
p0 −0.01867 ± 0.04313
pull
Entries 91
Mean 191.5
Std Dev 0
pull1D
Entries 91
Mean 0.01171
Std Dev 1.052

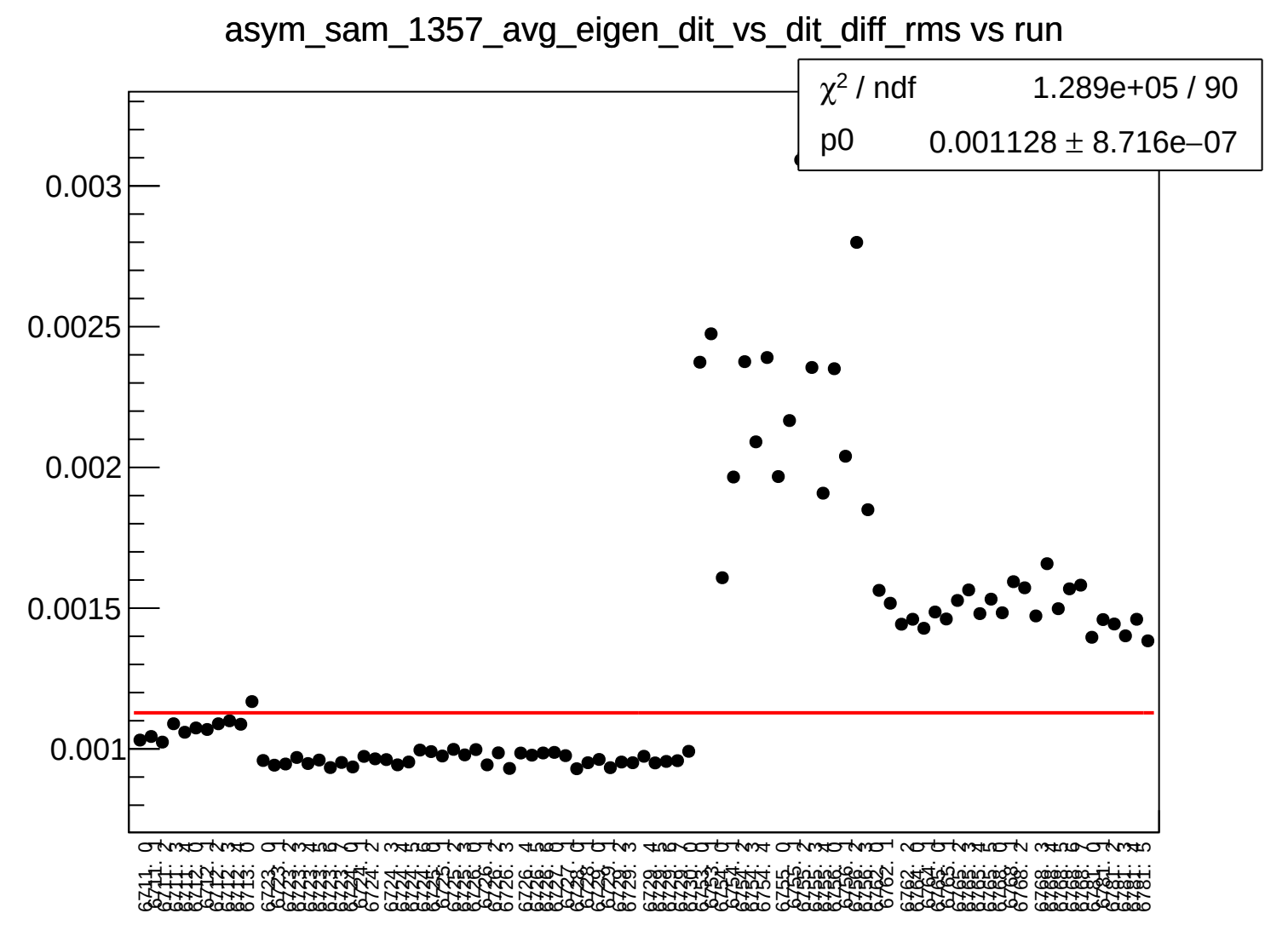

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.652e+05 / 90
p0 39.05 ± 0.0305
80
70
60
50
40
30

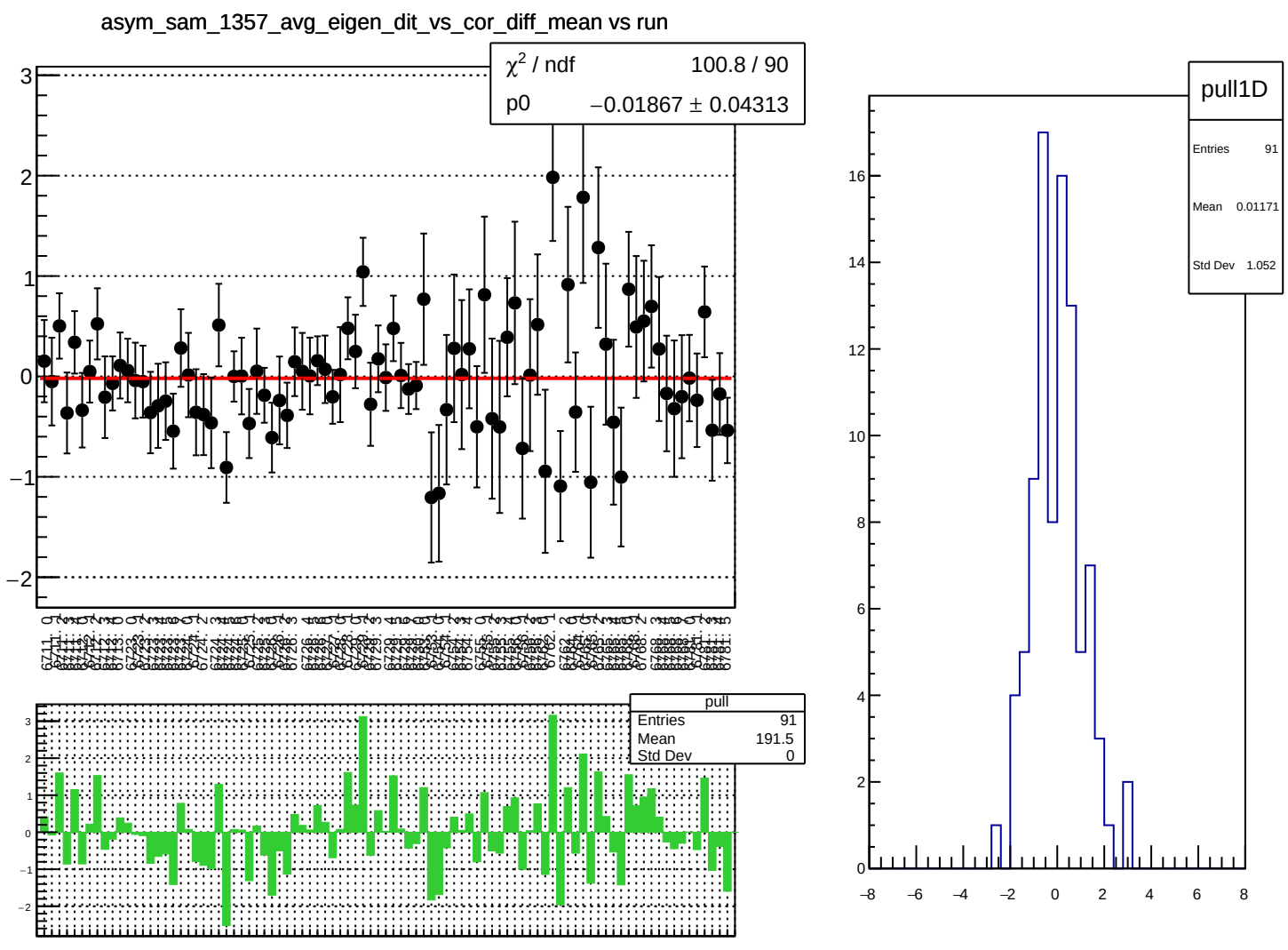

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.8 / 90
p0 −0.01867 ± 0.04313
pull
Entries 91
Mean 191.5
Std Dev 0
pull1D
Entries 91
Mean 0.01171
Std Dev 1.052

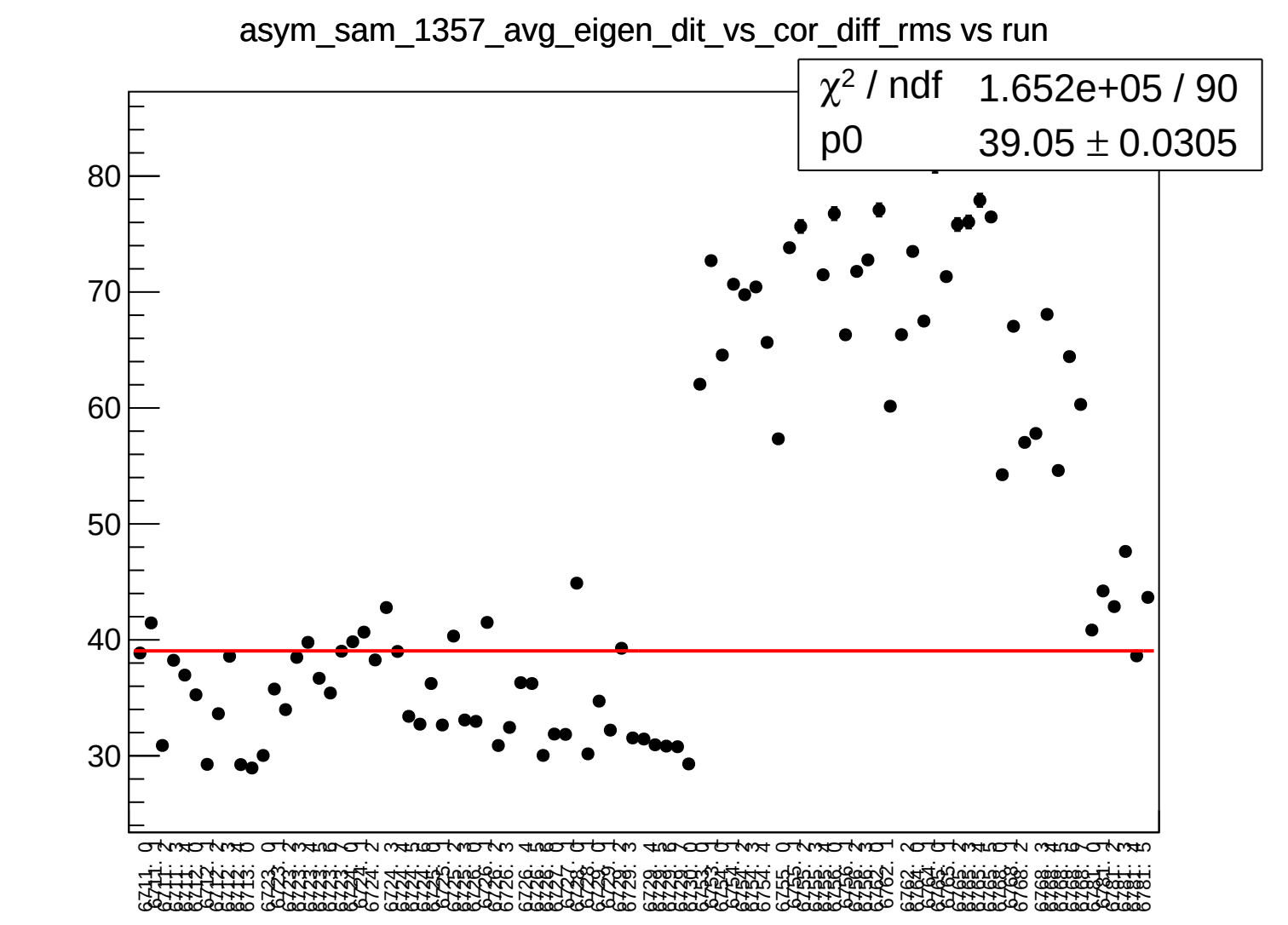

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.652e+05 / 90
p0 39.05 ± 0.0305
80
70
60
50
40
30

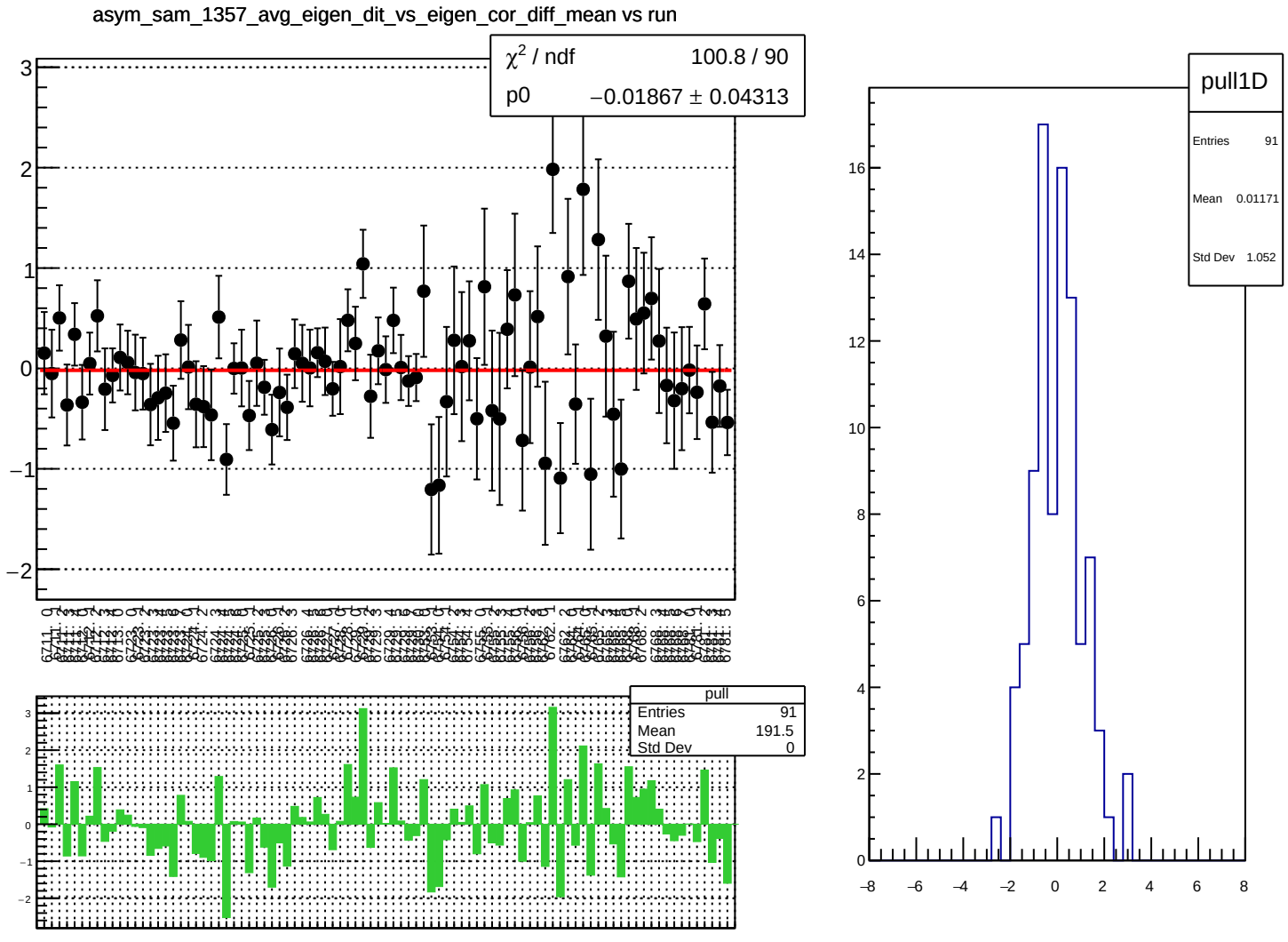

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.8 / 90
p0 −9.972e−07 ± 1.233e−06
pull
Entries 91
Mean 238.7
Std Dev 0

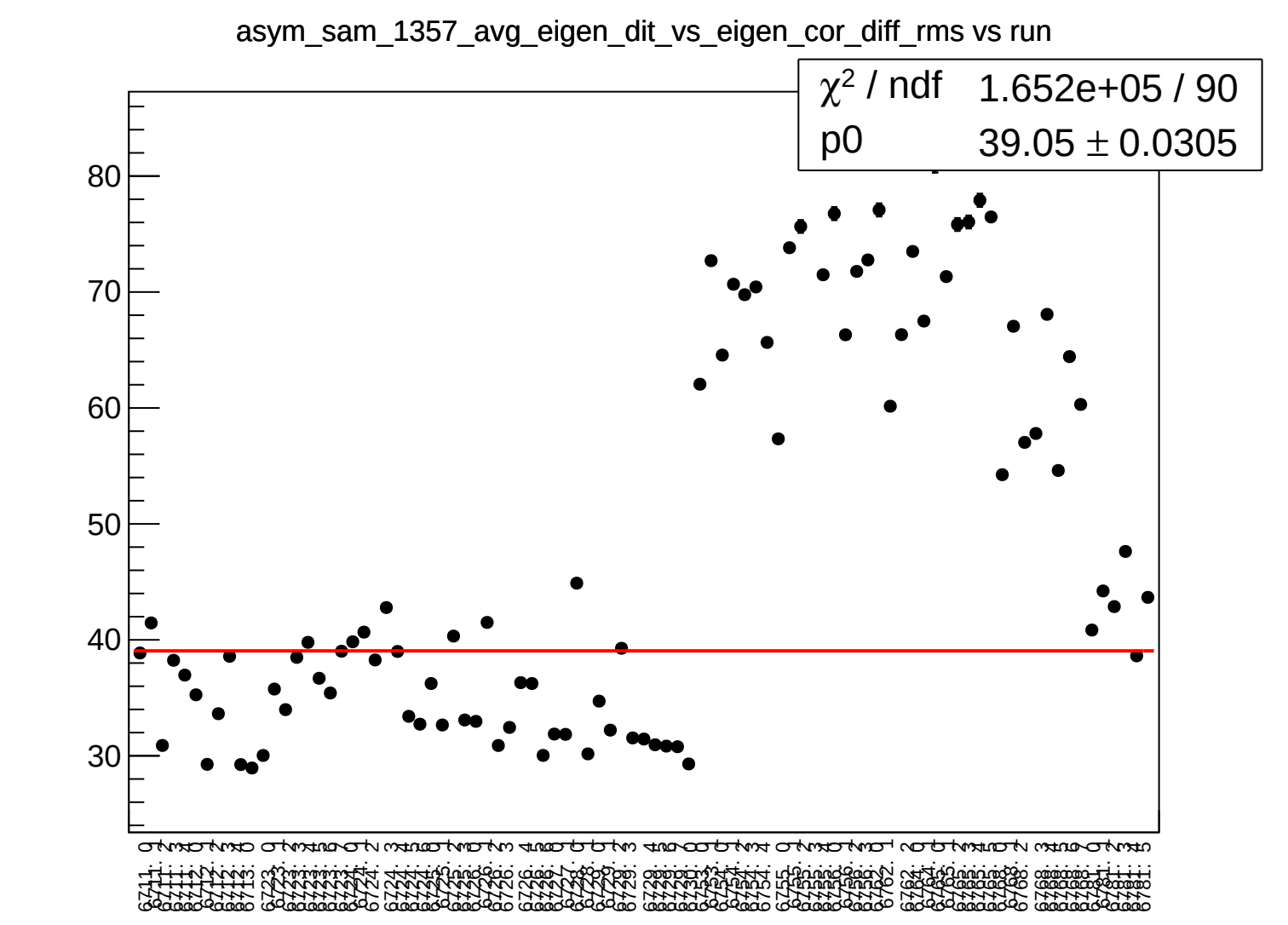

pull1D
Entries 91
Mean −0.02259
Std Dev 1.052

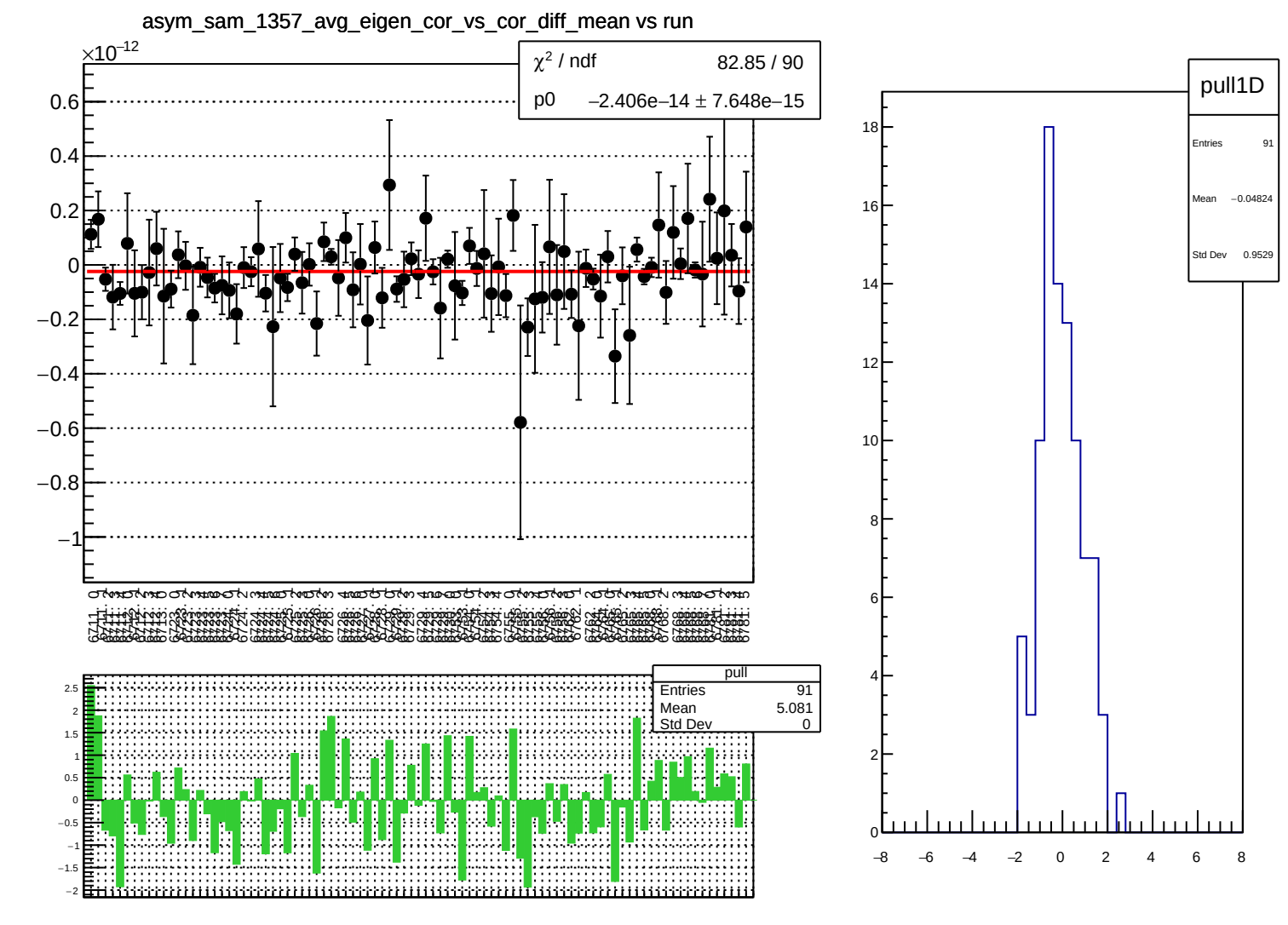

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.289e+05 / 90
p0 0.001128 ± 8.716e−07
0.003
0.0025
0.002
0.0015
0.001

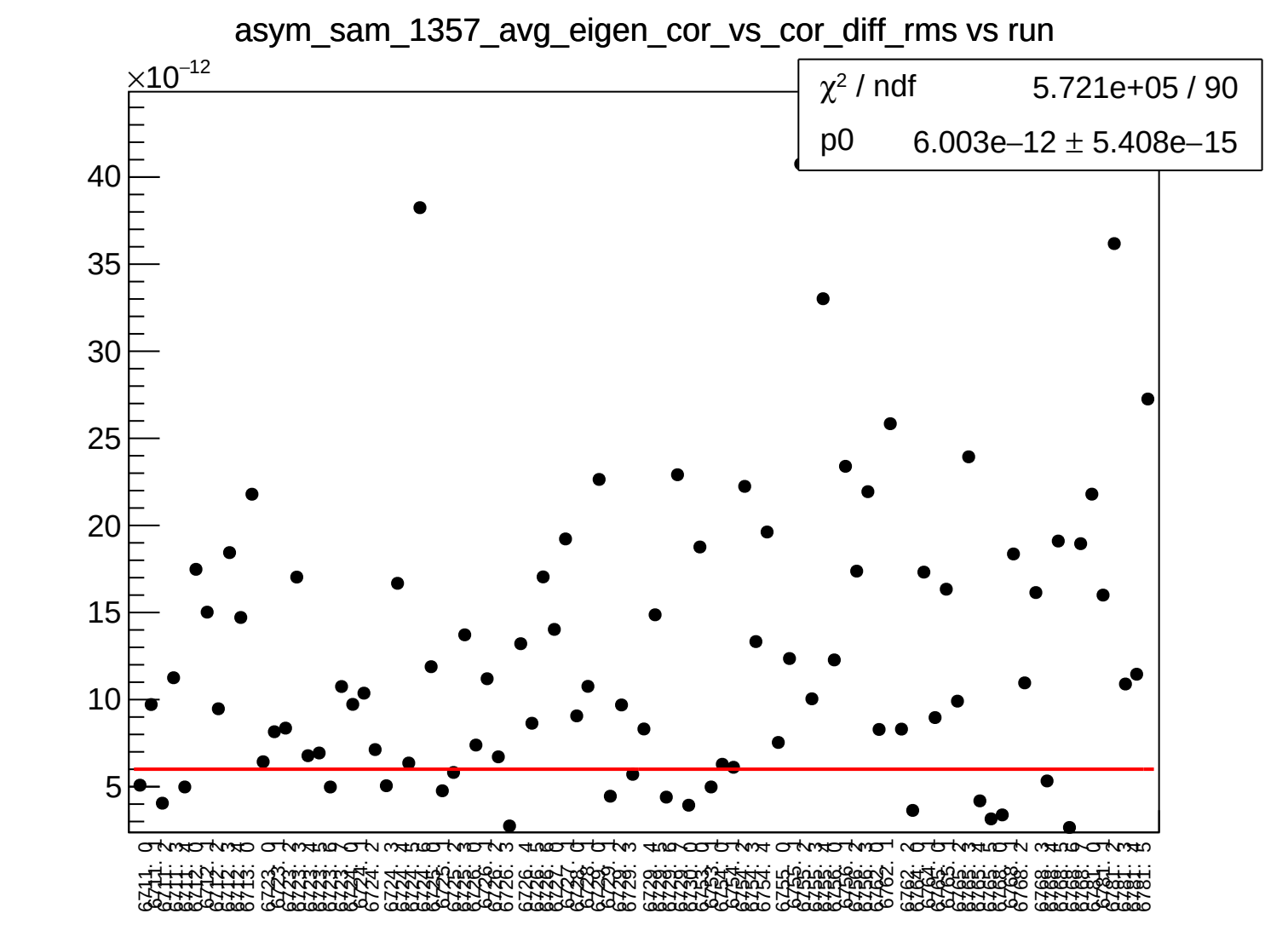

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 90
p0 −0.01867 ± 0.04313
pull
Entries 91
Mean 191.5
Std Dev 0
pull1D
Entries 91
Mean 0.01171
Std Dev 1.052

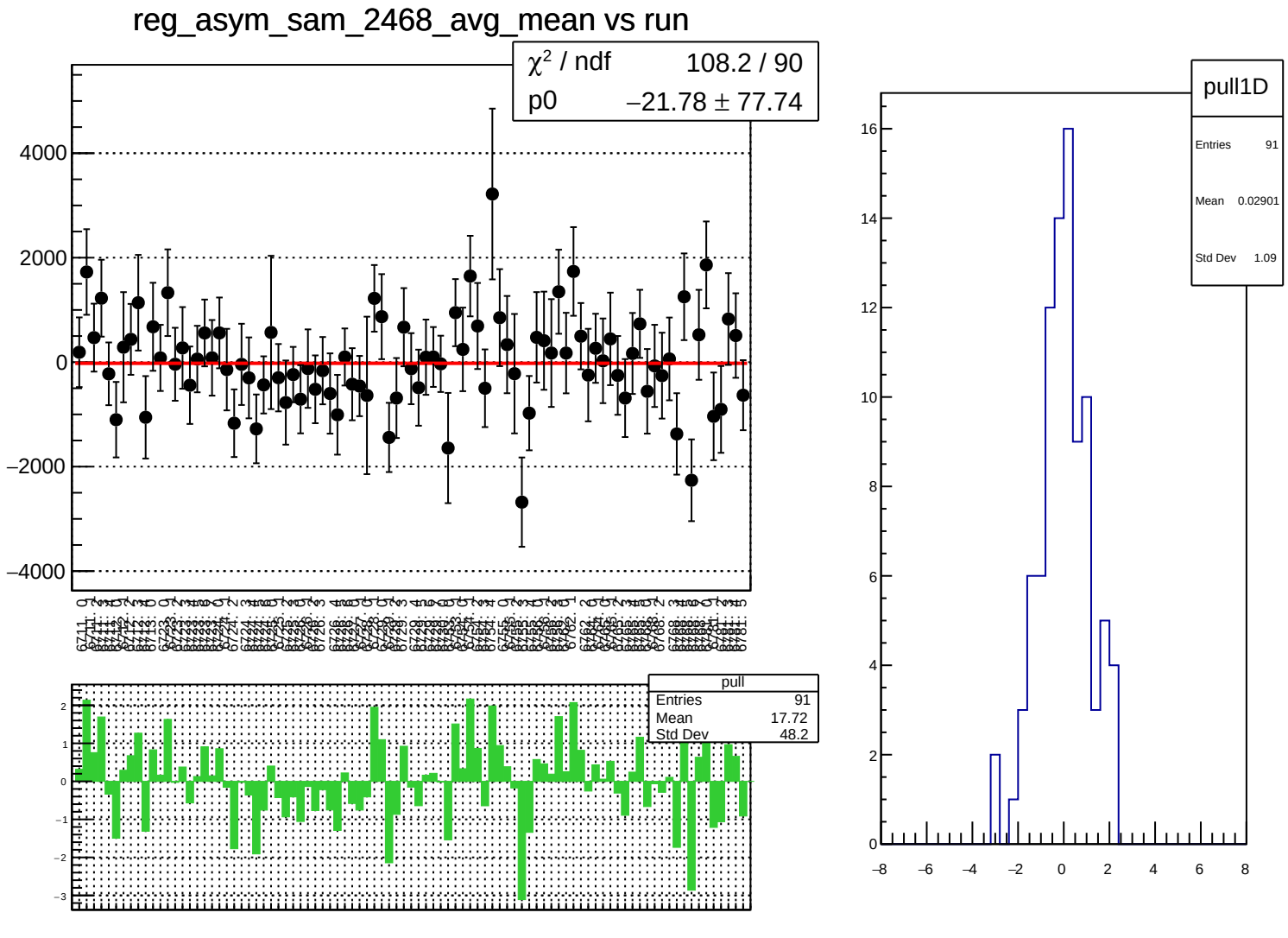

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.652e+05 / 90
p0 39.05 ± 0.0305
80
70
60
50
40
30

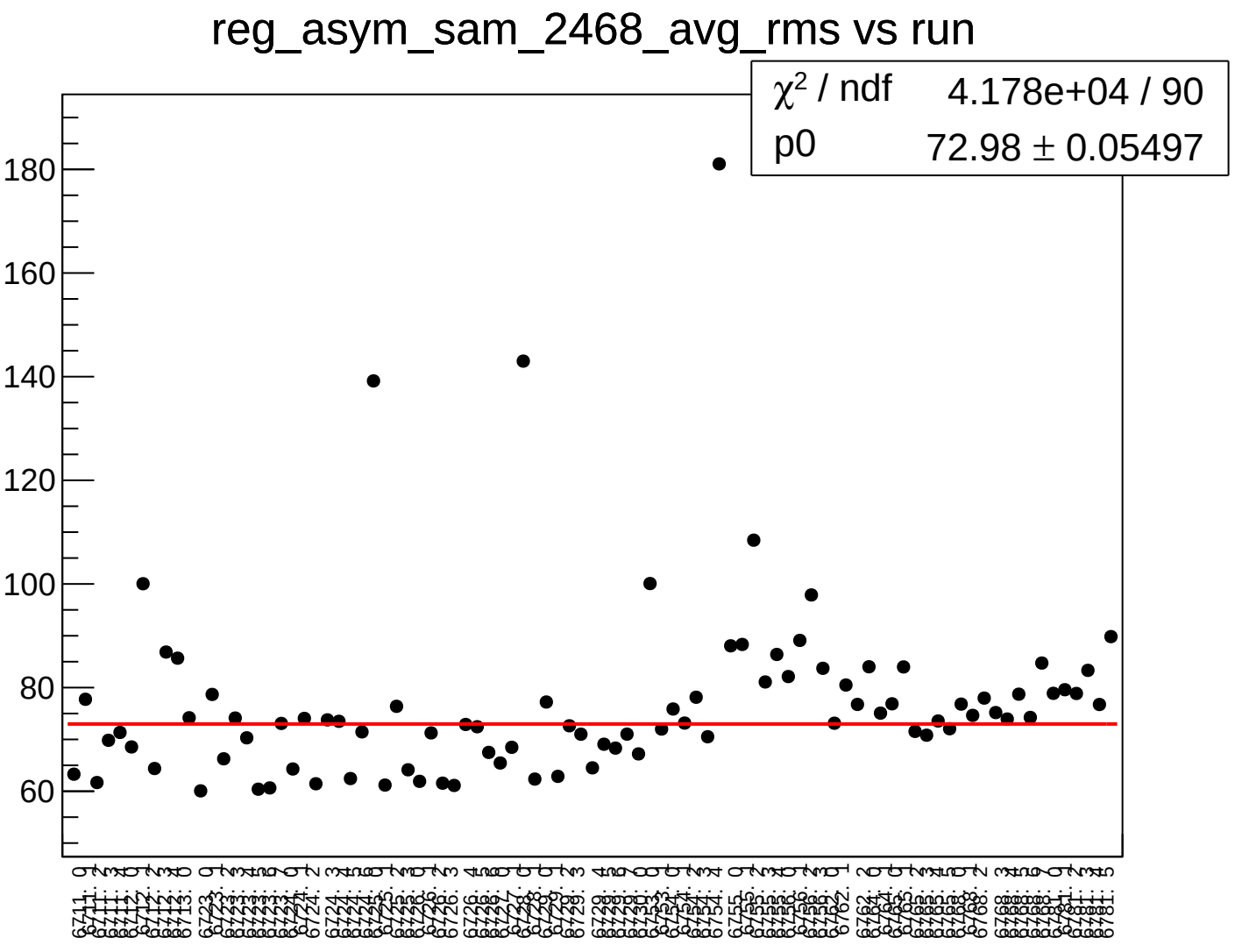

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.8 / 90
p0 −0.01867 ± 0.04313
pull
Entries 91
Mean 191.5
Std Dev 0
pull1D
Entries 91
Mean 0.01171
Std Dev 1.052

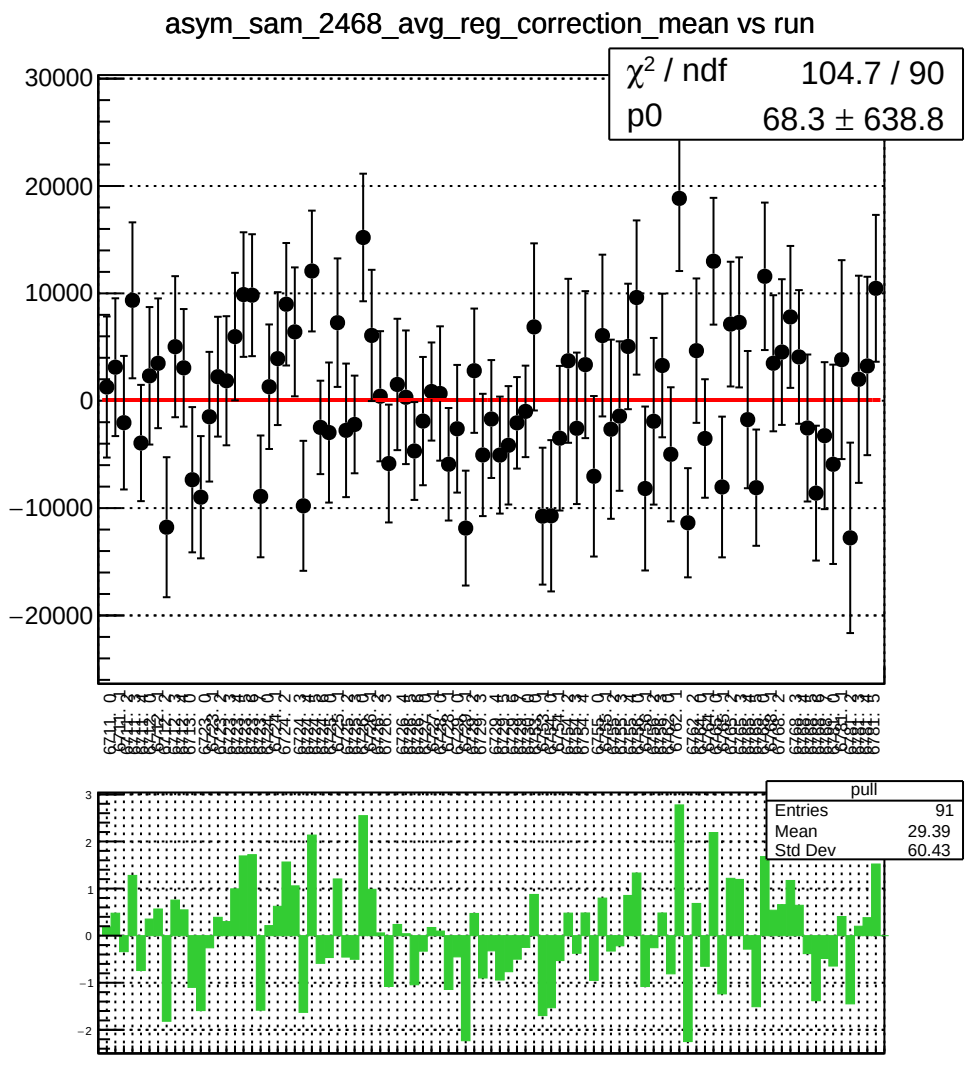

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.652e+05 / 90
p0 39.05 ± 0.0305
80
70
60
50
40
30

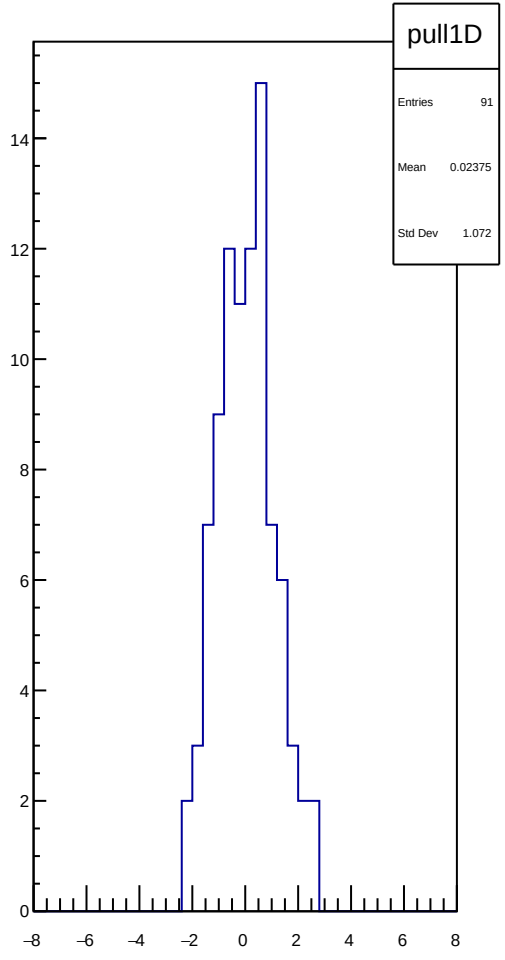

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 82.85 / 90
p0 −2.406e−14 ± 7.648e−15
pull
Entries 91
Mean 5.081
Std Dev 0
pull1D
Entries 91
Mean −0.04824
Std Dev 0.9529


asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.721e+05 / 90
p0 6.003e−12 ± 5.408e−15
40
35
30
25
20
15
10
5


reg_asym_sam_2468_avg_mean vs run
χ² / ndf 108.2 / 90
p0 −21.78 ± 77.74
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 17.72
Std Dev 48.2
pull1D
Entries 91
Mean 0.02901
Std Dev 1.09
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
χ^2 / ndf 4.178e+04 / 90
p0 72.98 ± 0.05497
180
160
140
120
100
80
60


asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 104.7 / 90
p0 68.3 ± 638.8
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 29.39
Std Dev 60.43
3
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.02375
Std Dev 1.072
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10
8
6
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−4
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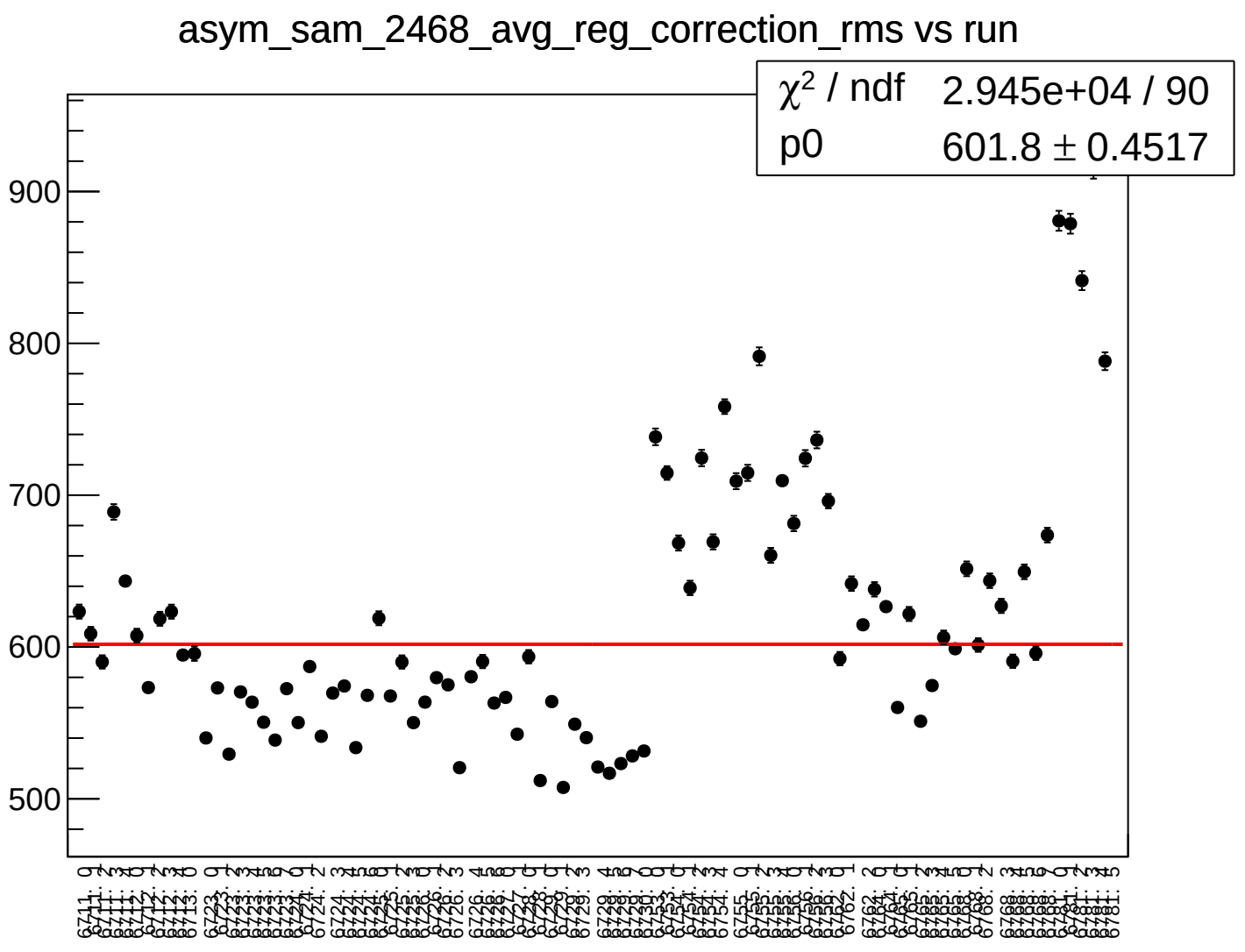
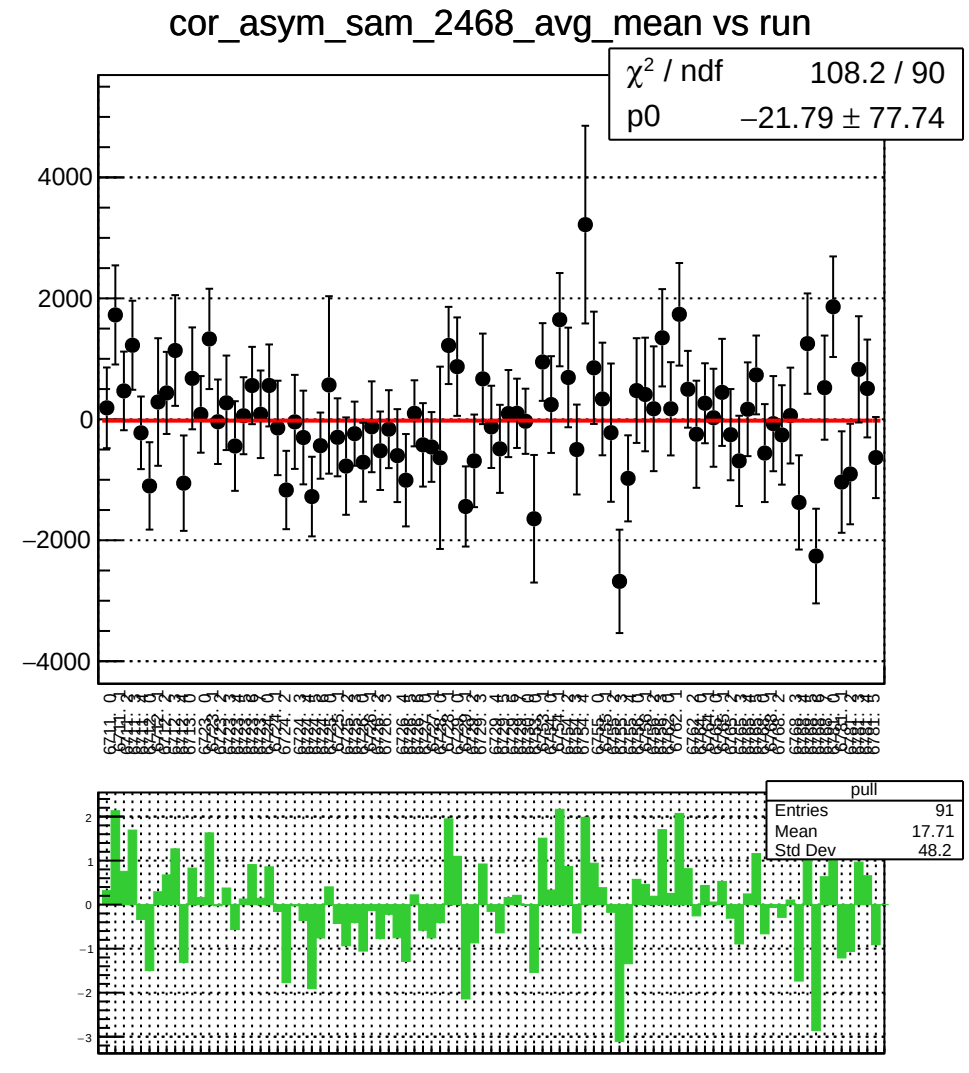
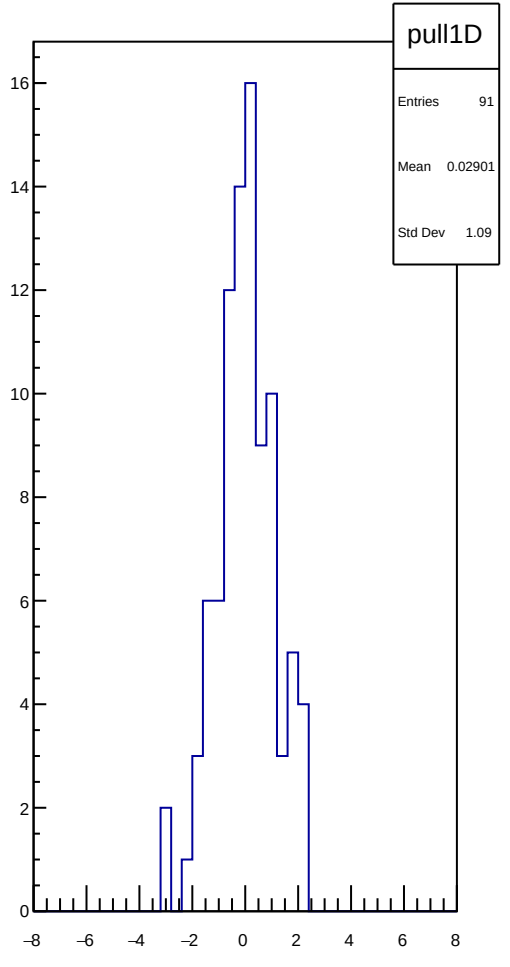
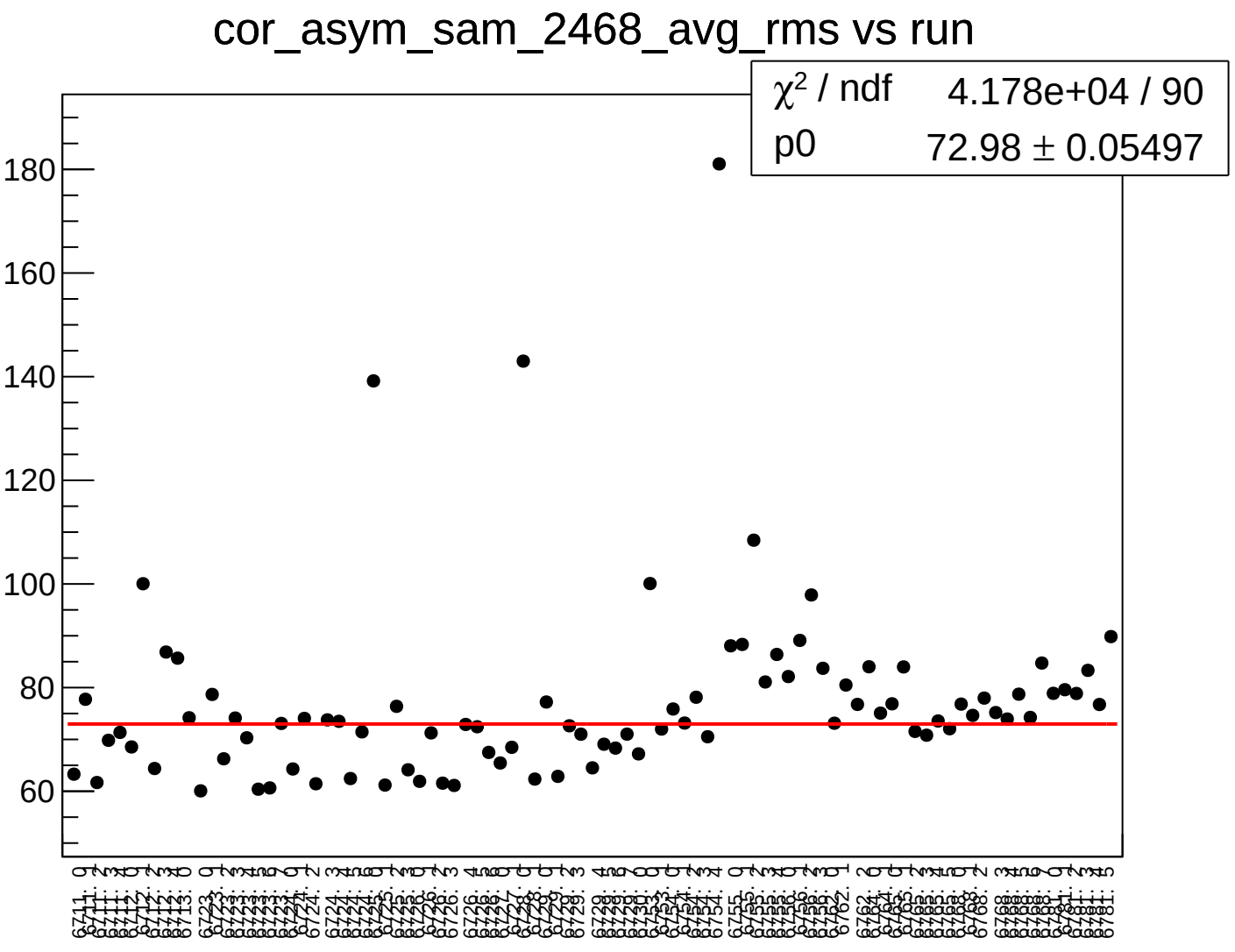
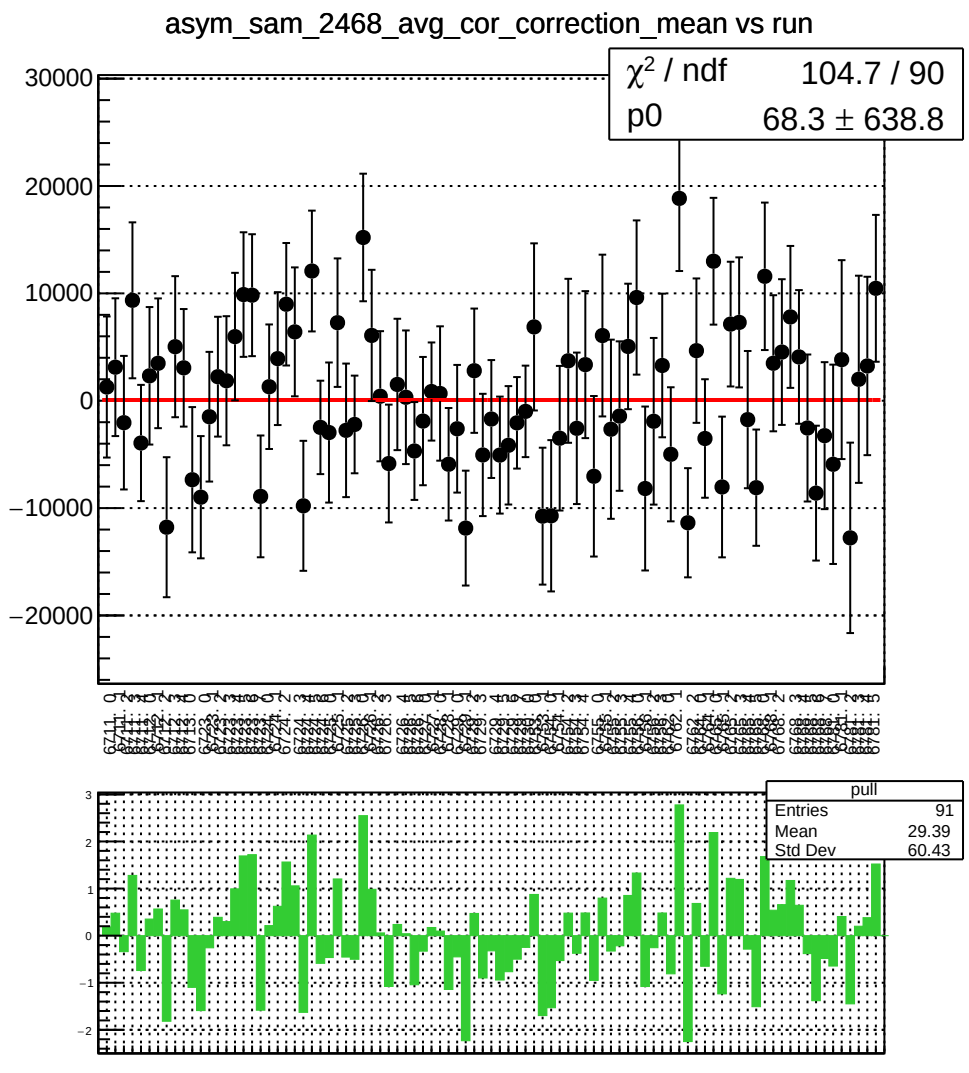
2
4
6
8

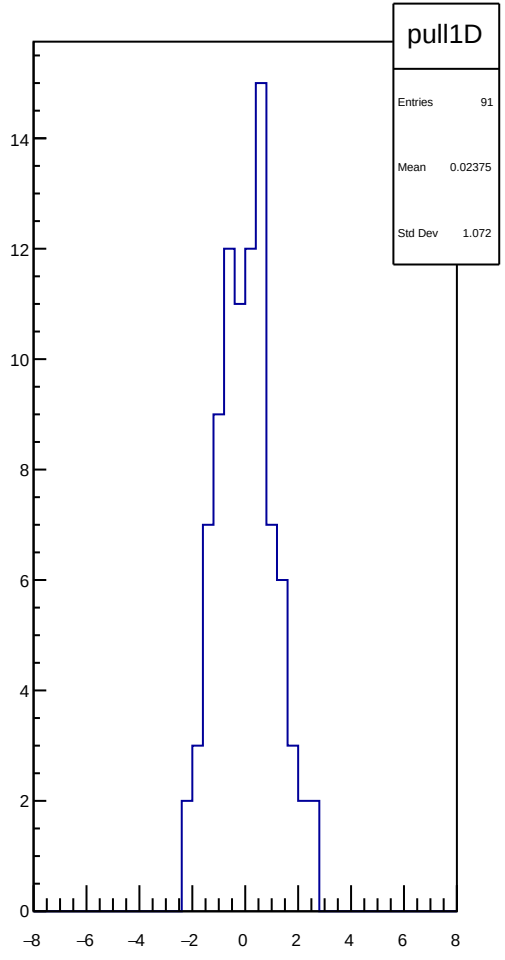

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 2.945e+04 / 90
p0 601.8 ± 0.4517
900
800
700
600
500


cor_asym_sam_2468_avg_mean vs run
χ² / ndf 108.2 / 90
p0 −21.79 ± 77.74
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 17.71
Std Dev 48.2
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean 0.02901
Std Dev 1.09
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
χ^2 / ndf 4.178e+04 / 90
p0 72.98 ± 0.05497
180
160
140
120
100
80
60


asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 104.7 / 90
p0 68.3 ± 638.8
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 29.39
Std Dev 60.43
3
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.02375
Std Dev 1.072
14
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10
8
6
4
2
0
−8
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−4
−2
0
2
4
6
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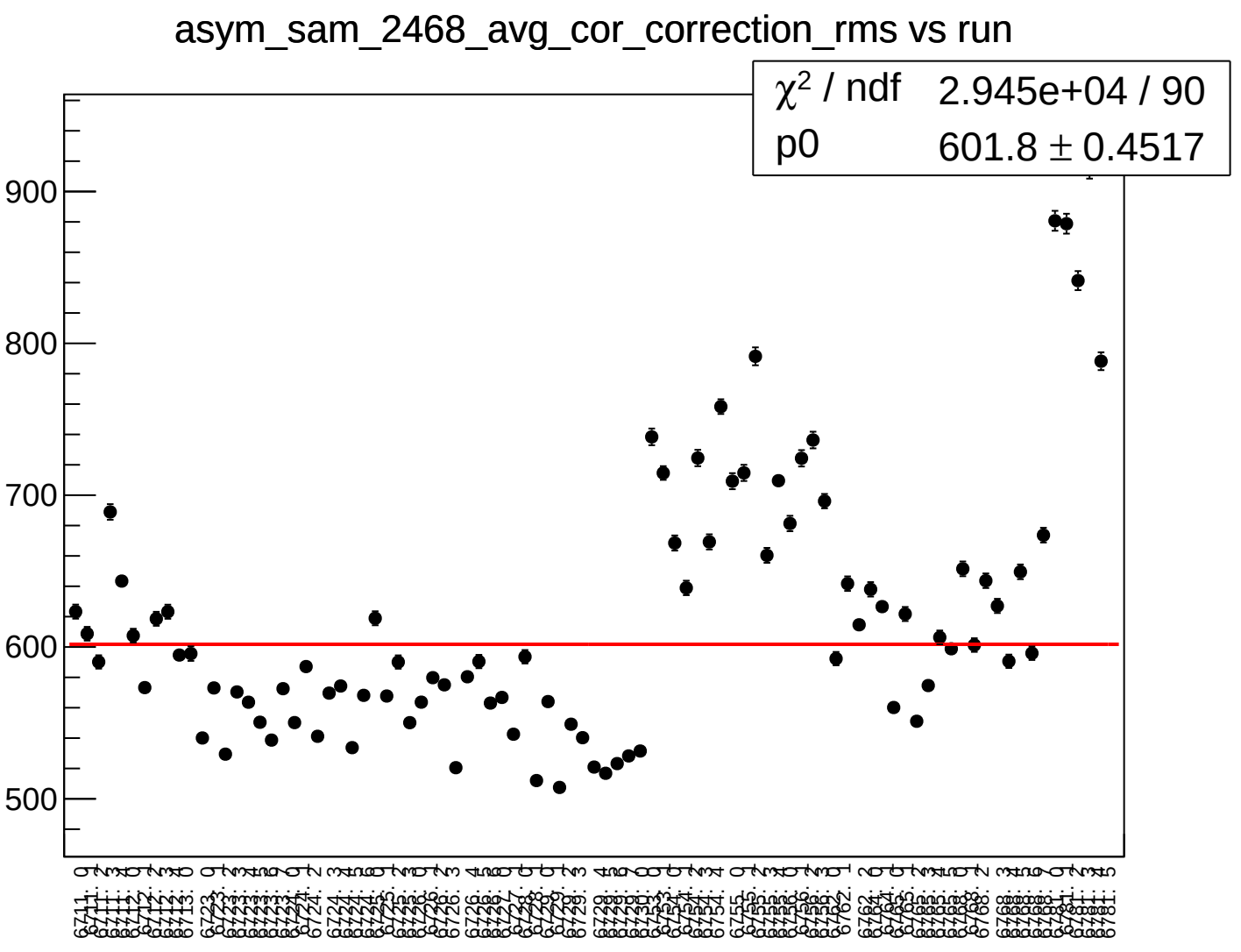
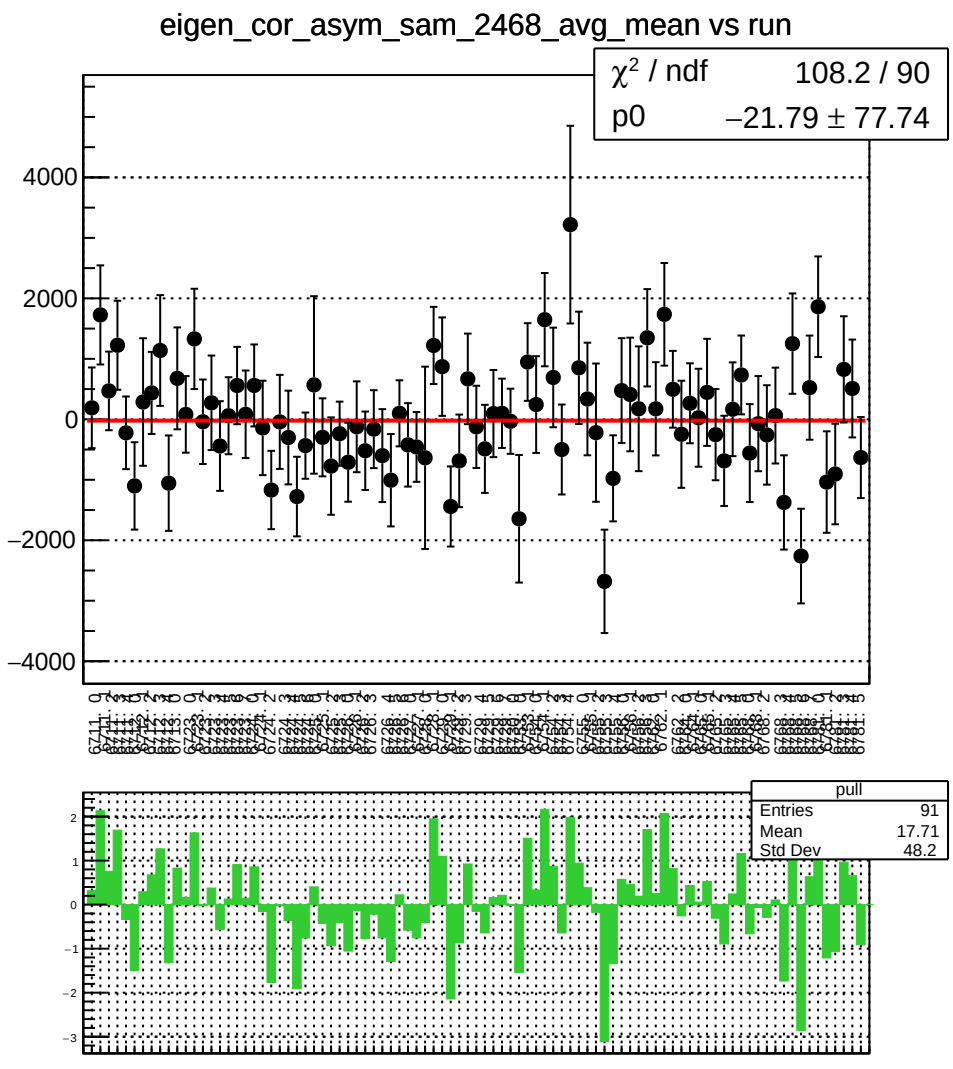
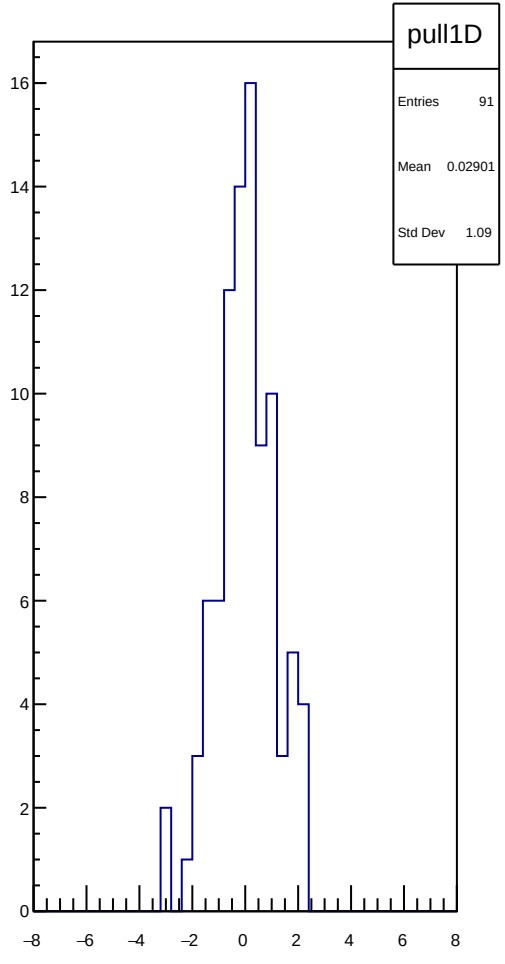

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 2.945e+04 / 90
p0 601.8 ± 0.4517
900
800
700
600
500


eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 108.2 / 90
p0 −21.79 ± 77.74
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 17.71
Std Dev 48.2
2
1
0
−1
−2
−3


pull1D
Entries 91
Mean 0.02901
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
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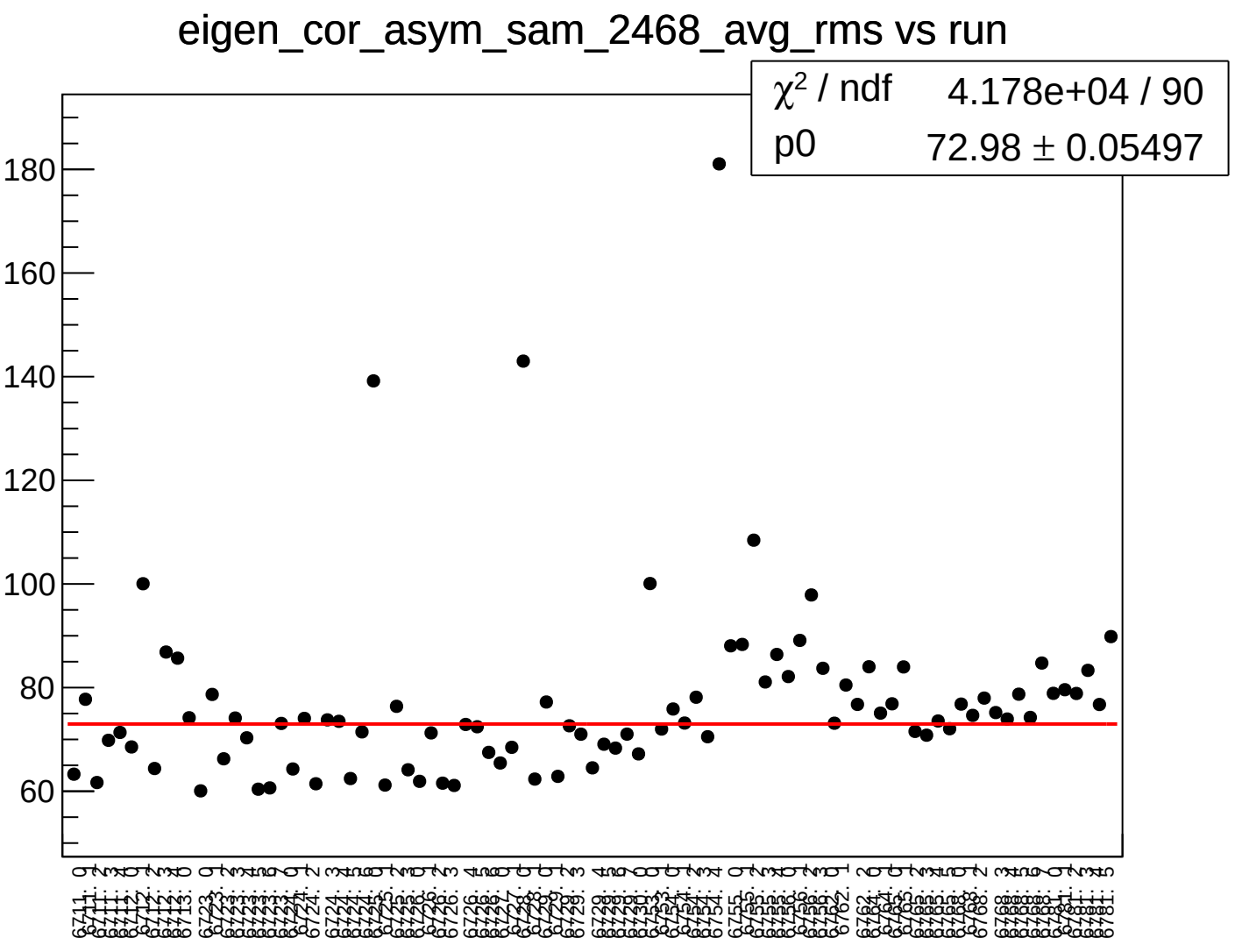
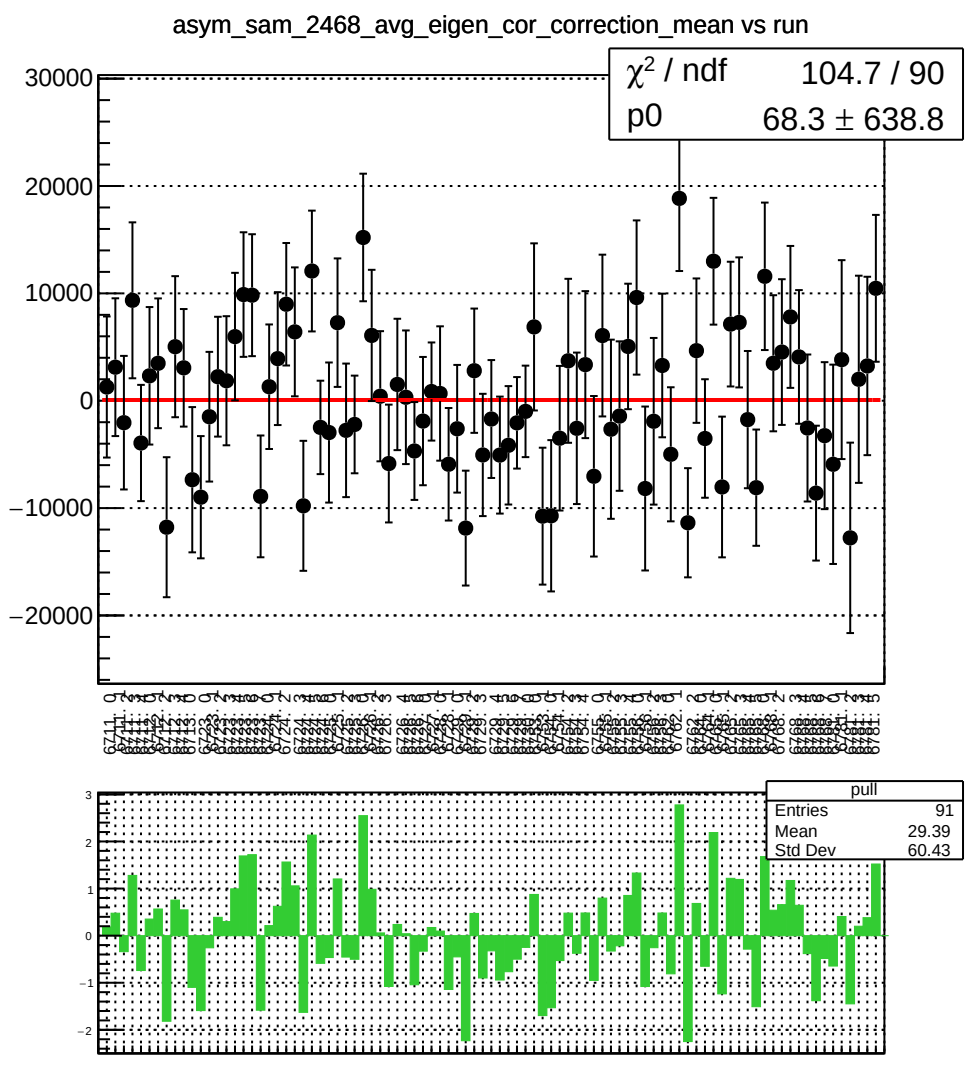
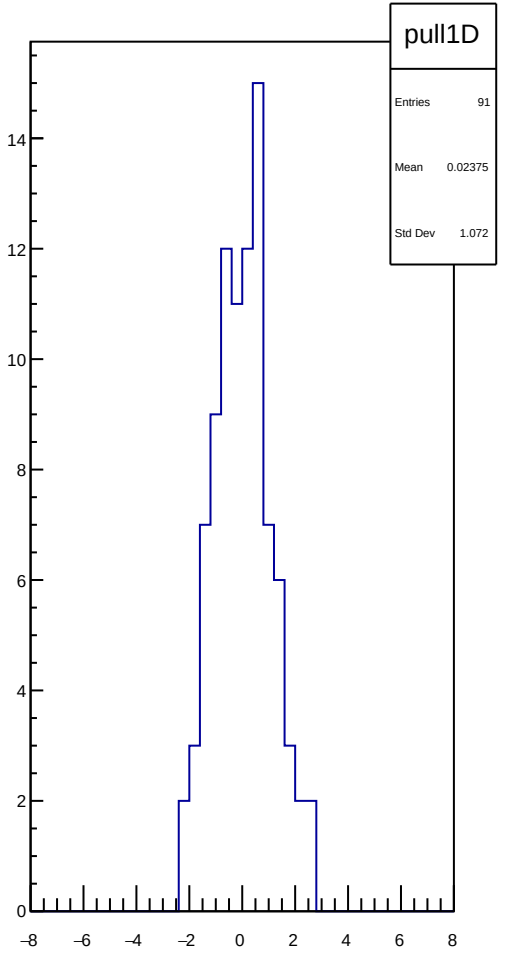
2
4
6
8


eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 4.178e+04 / 90
p0 72.98 ± 0.05497
180
160
140
120
100
80
60


asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 104.7 / 90
p0 68.3 ± 638.8
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 29.39
Std Dev 60.43
3
2
1
0
−1
−2


pull1D
Entries 91
Mean 0.02375
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
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2
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6
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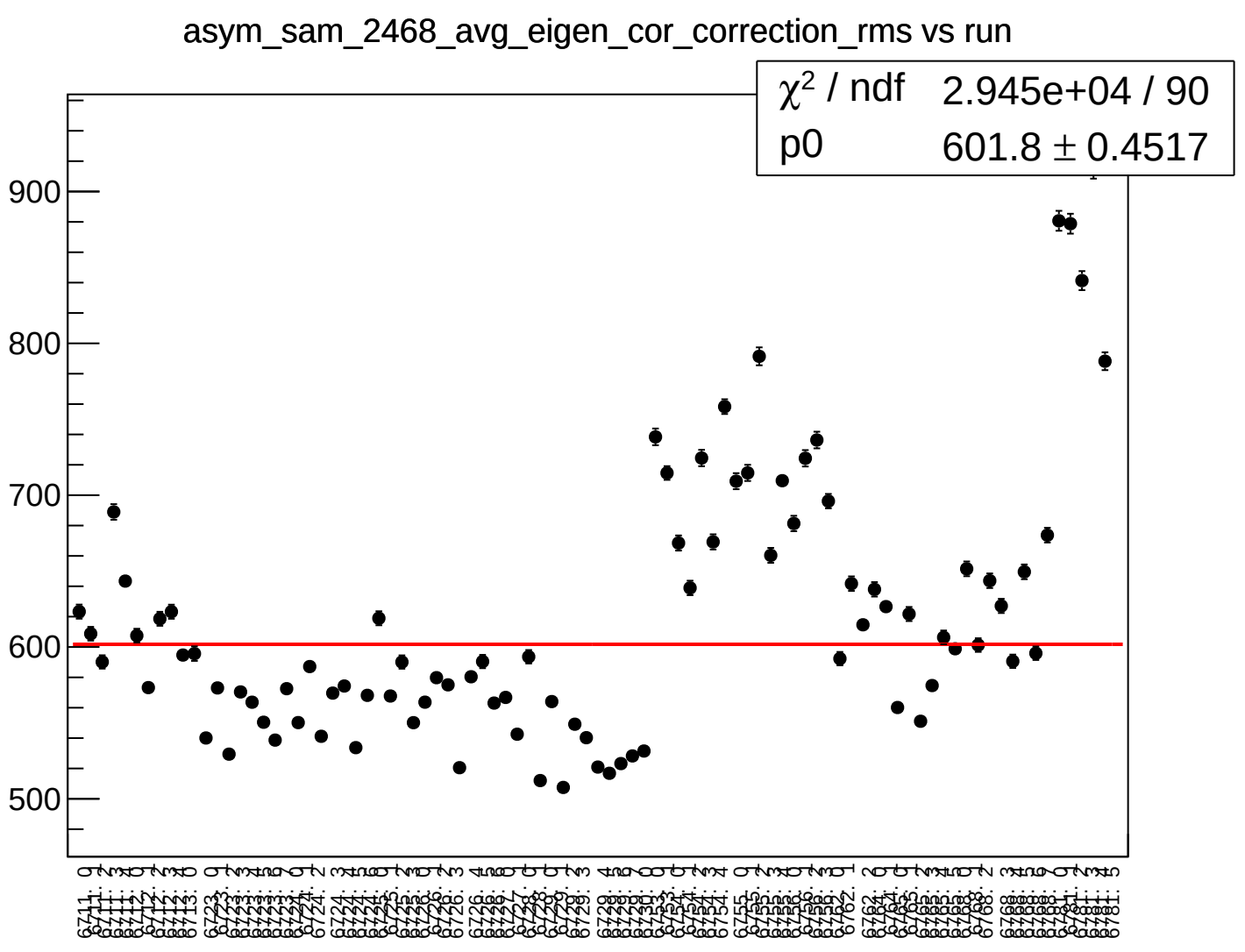
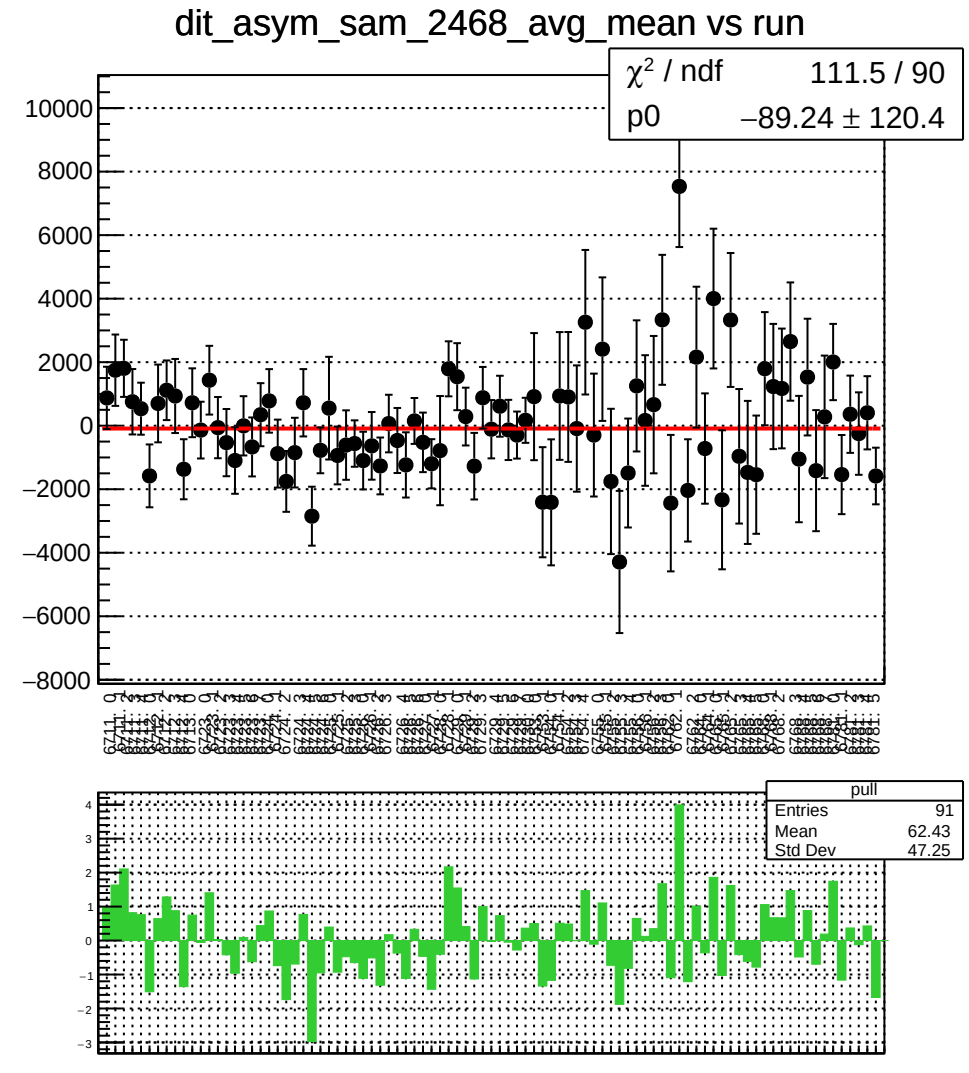
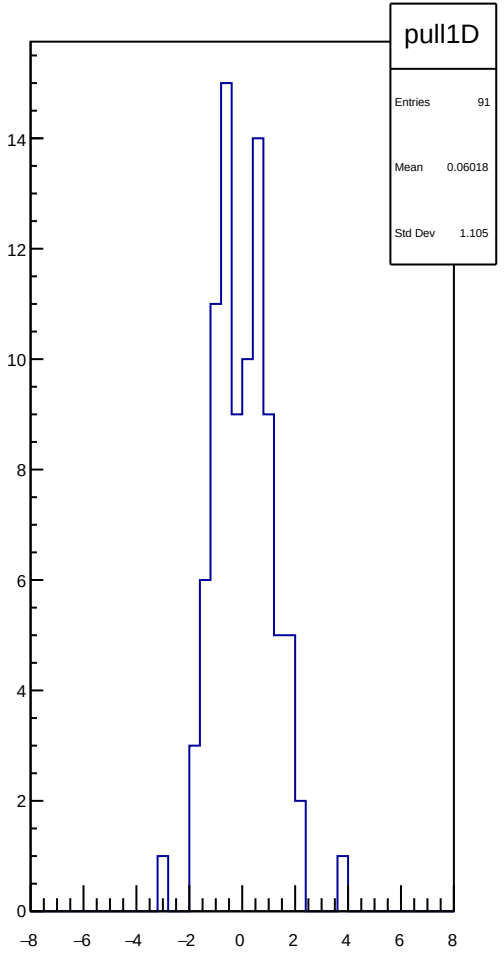
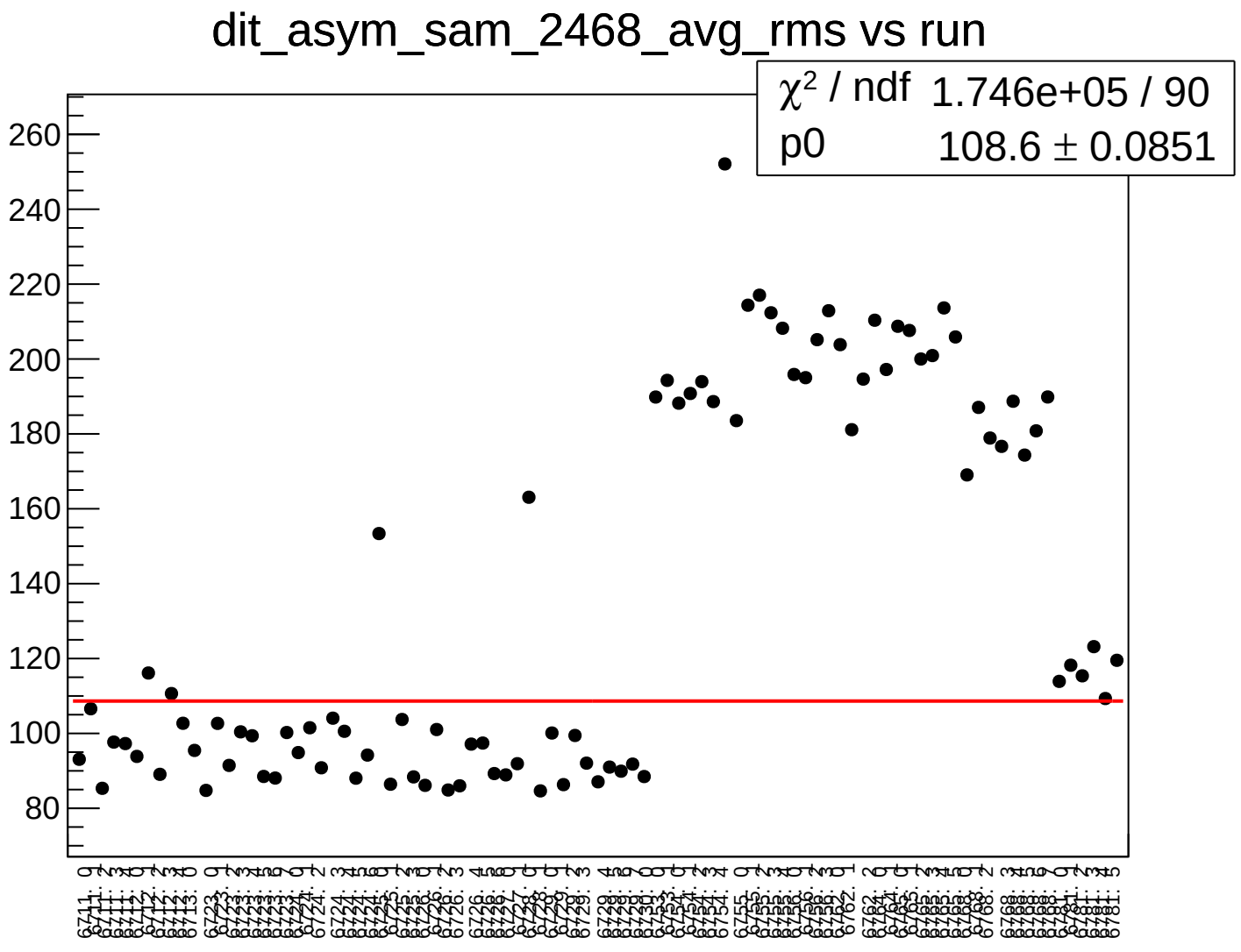
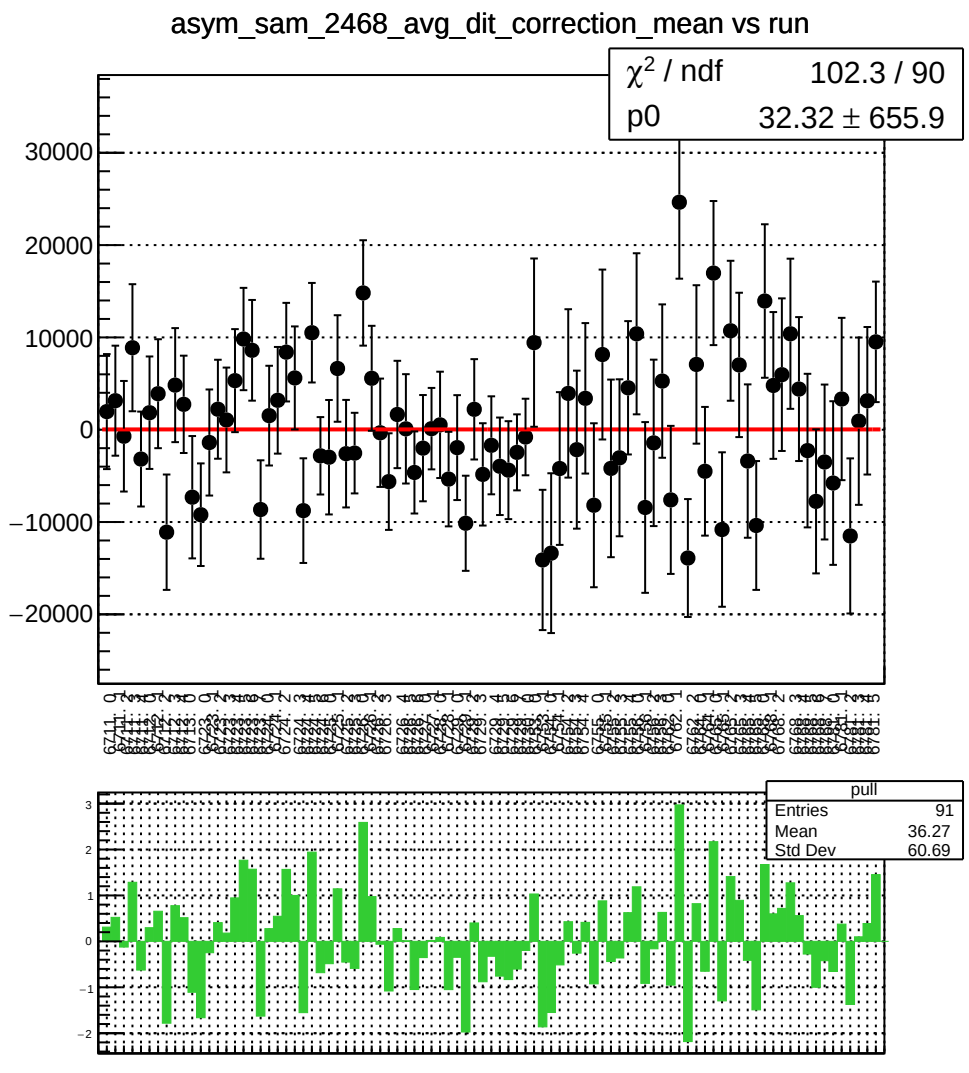
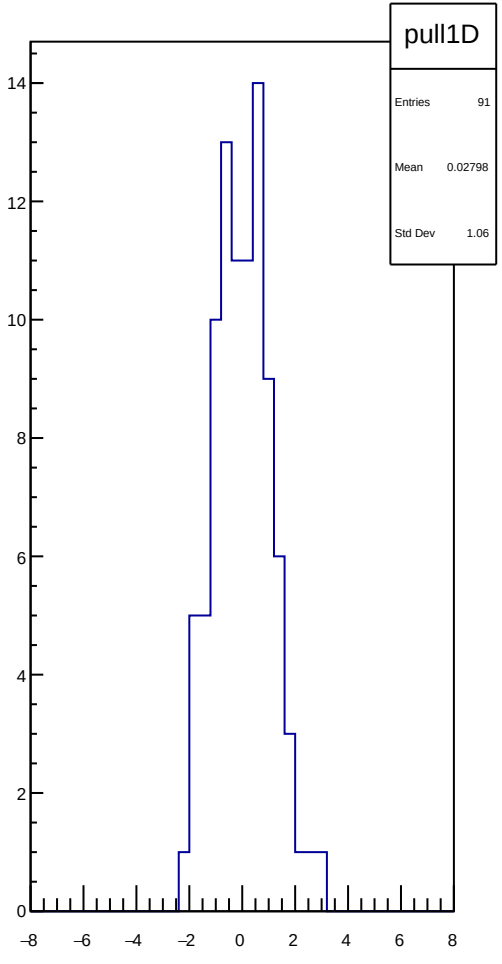

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.945e+04 / 90
p0 601.8 ± 0.4517
900
800
700
600
500

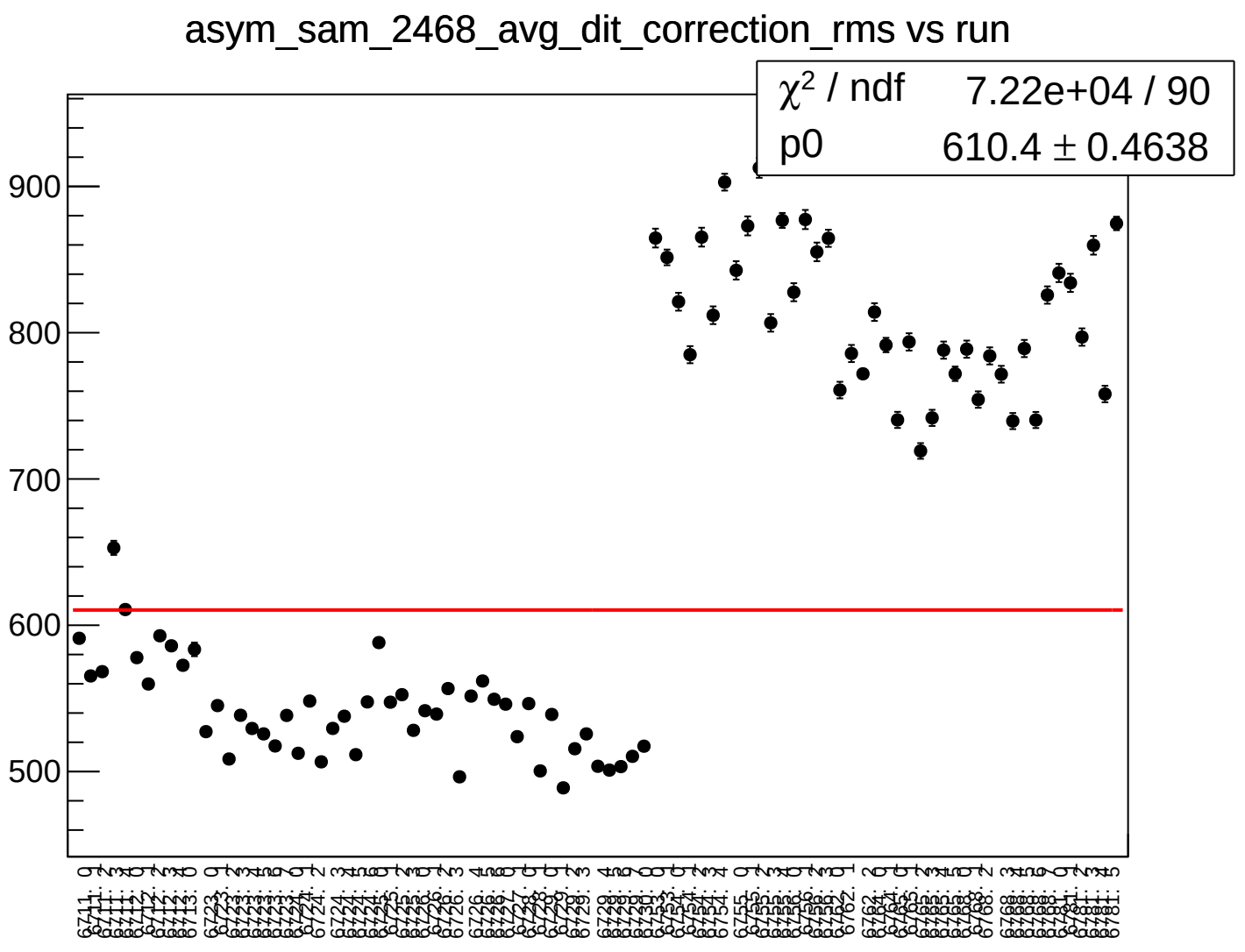

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 111.5 / 90
p0 −89.24 ± 120.4
pull
Entries 91
Mean 62.43
Std Dev 47.25

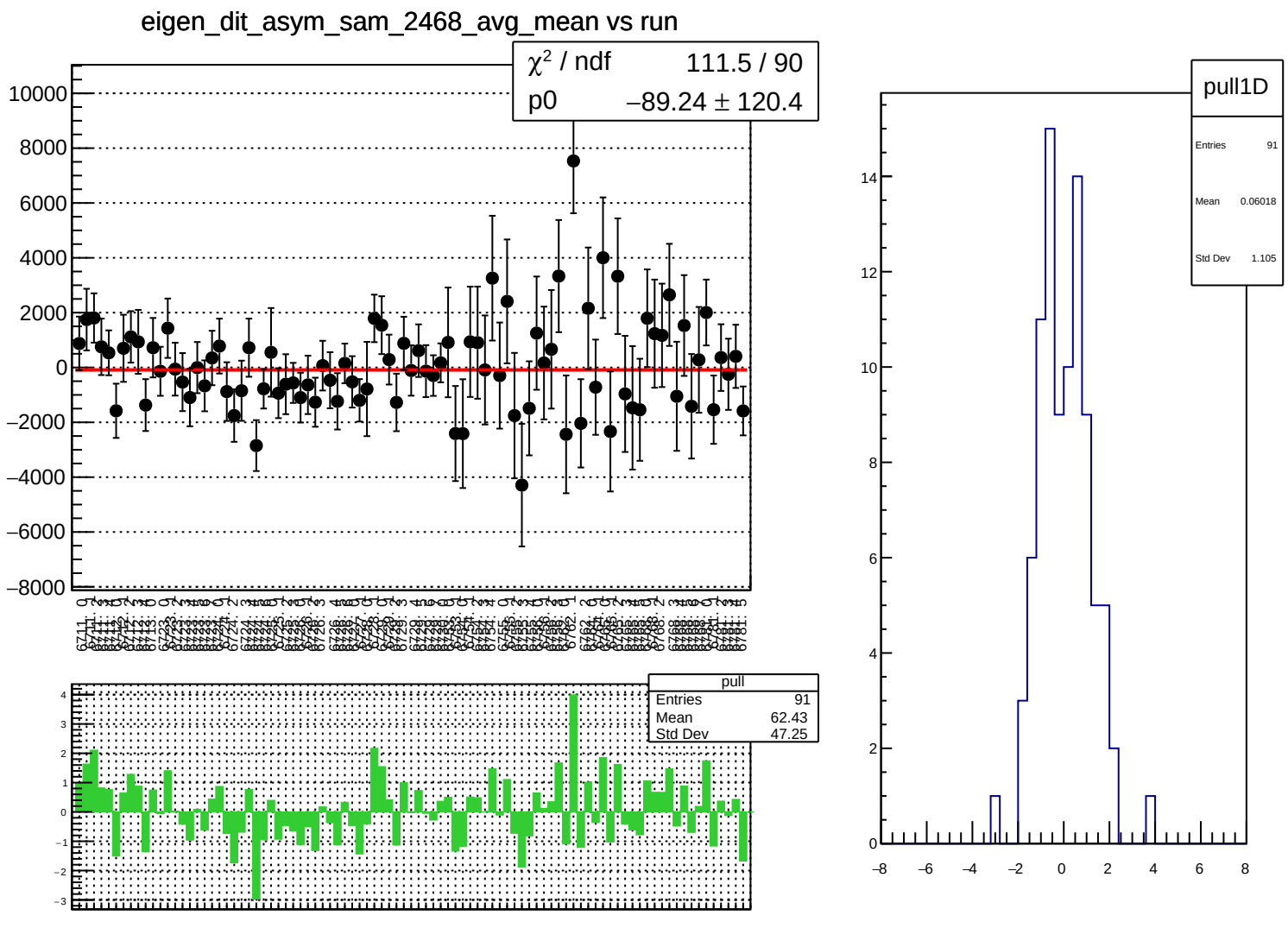

pull1D
Entries 91
Mean 0.06018
Std Dev 1.105

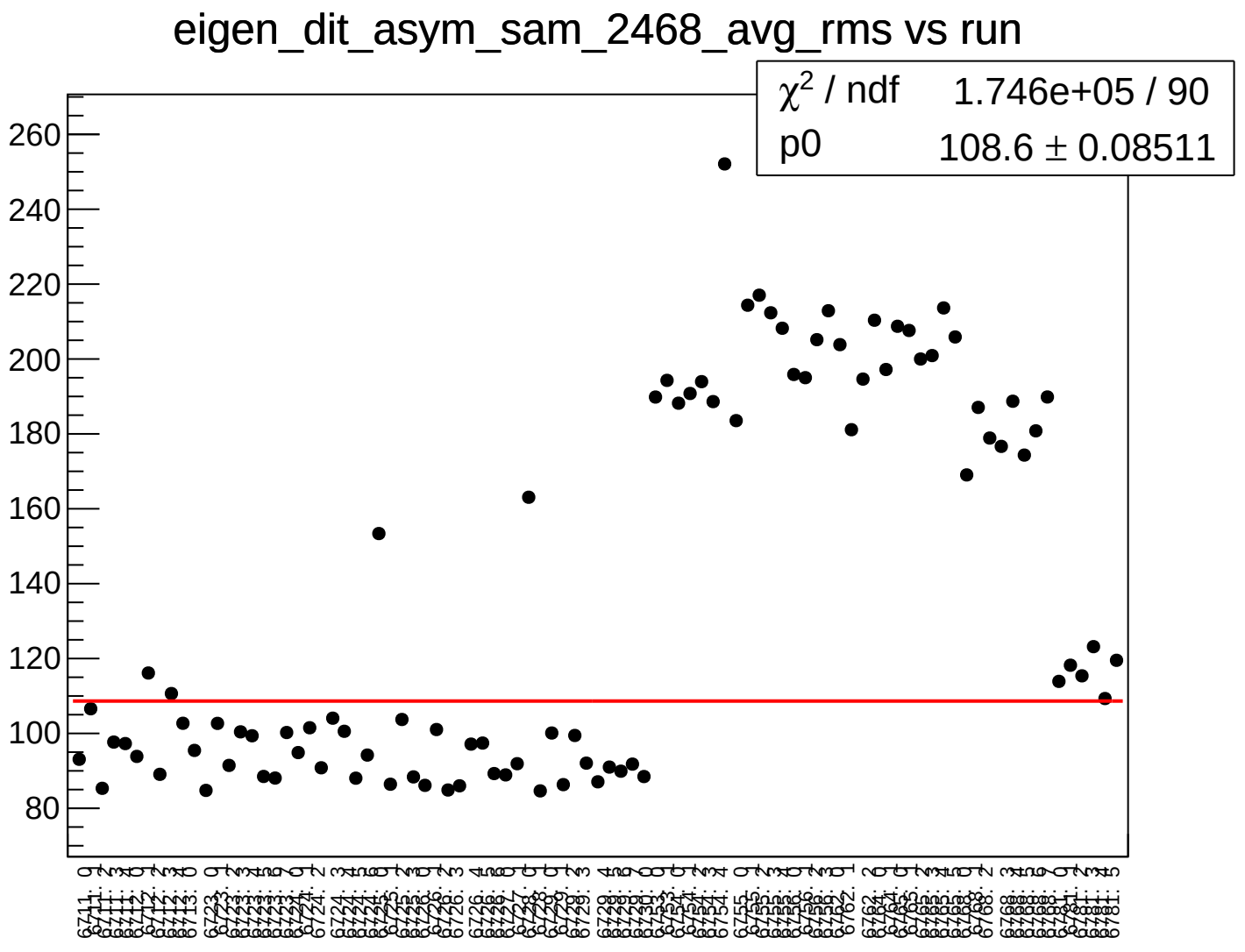

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.746e+05 / 90
p0 108.6 ± 0.0851
260
240
220
200
180
160
140
120
100
80

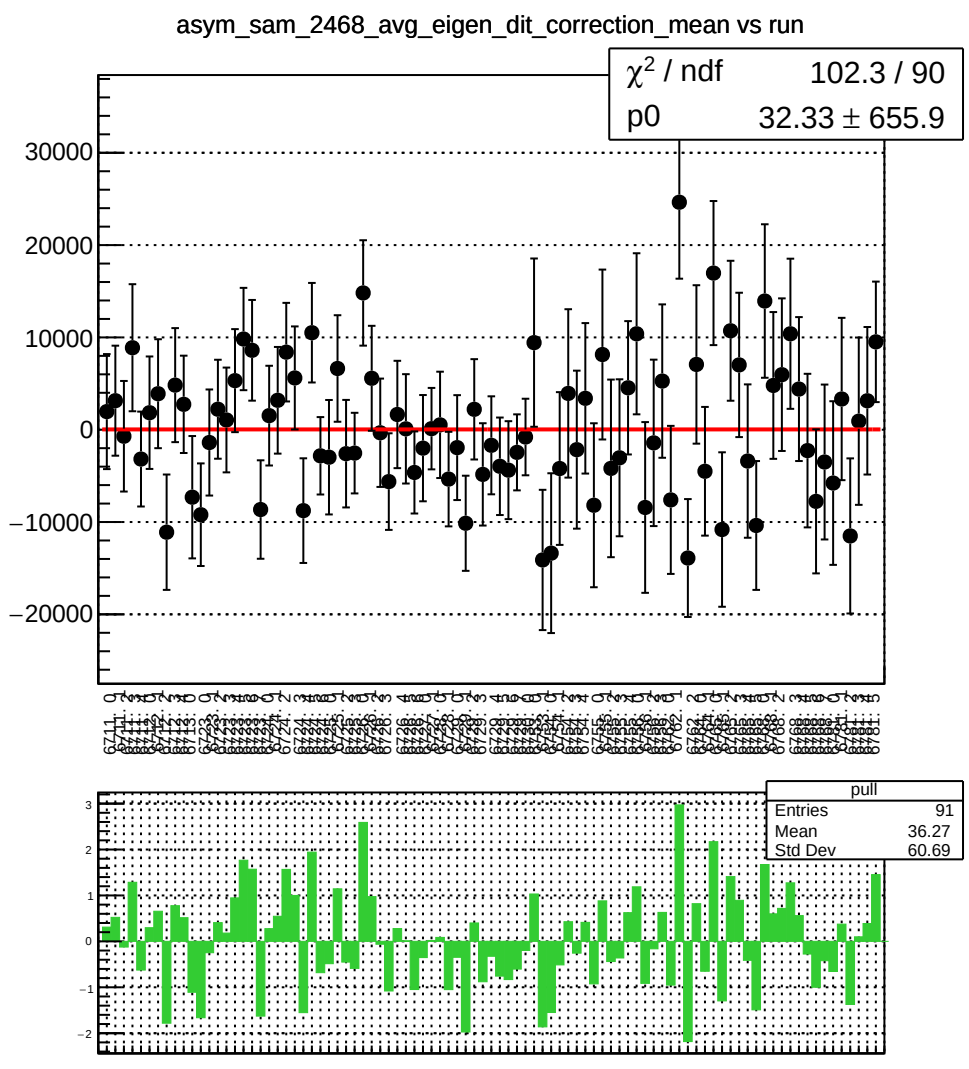

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 102.3 / 90
p0 32.32 ± 655.9
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 36.27
Std Dev 60.69
3
2
1
0
−1
−2

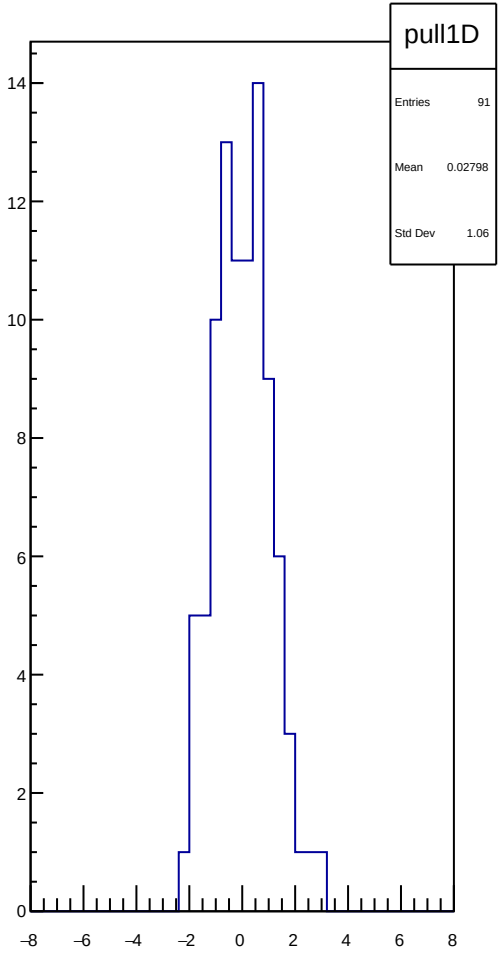

pull1D
Entries 91
Mean 0.02798
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

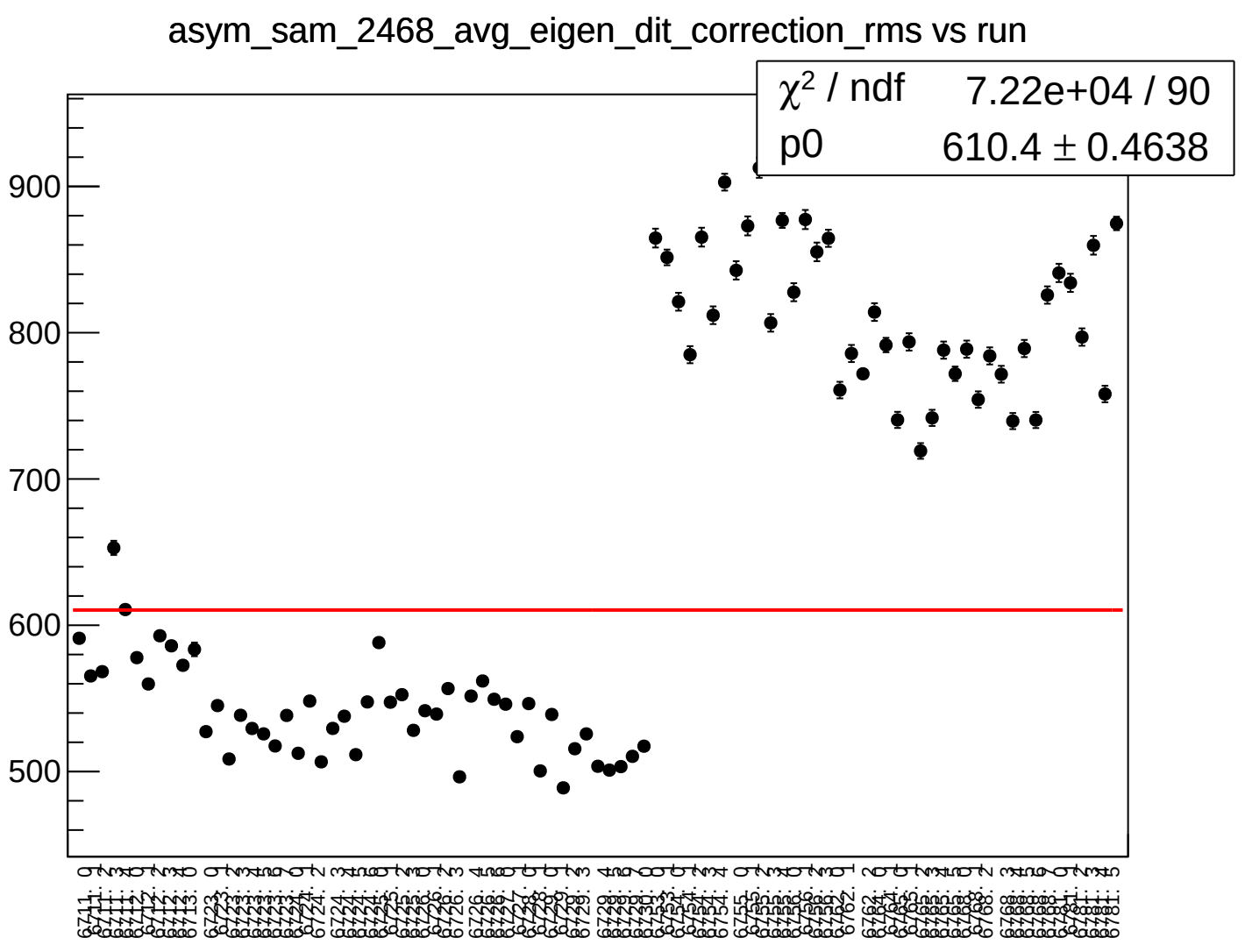

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 7.22e+04 / 90
p0 610.4 ± 0.4638
900
800
700
600
500

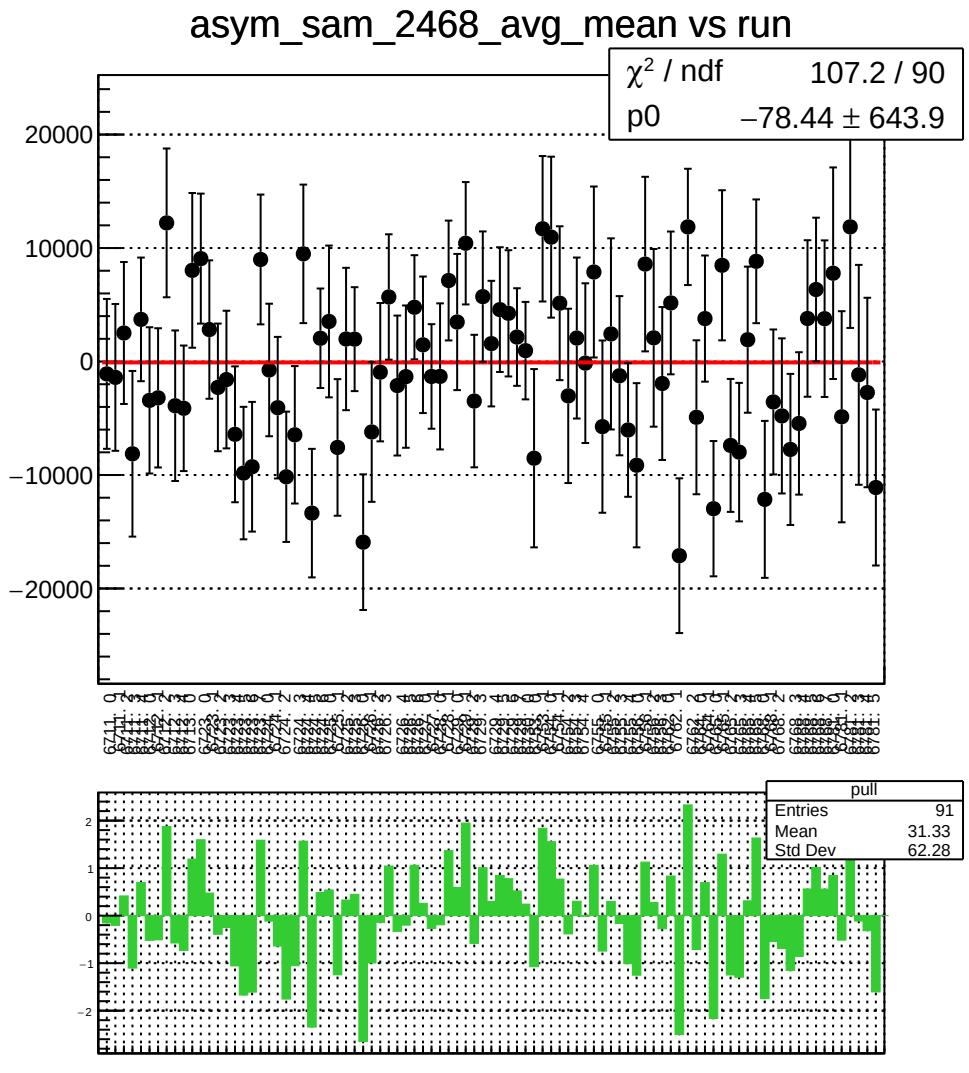

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 111.5 / 90
p0 −89.24 ± 120.4
pull
Entries 91
Mean 62.43
Std Dev 47.25
pull1D
Entries 91
Mean 0.06018
Std Dev 1.105

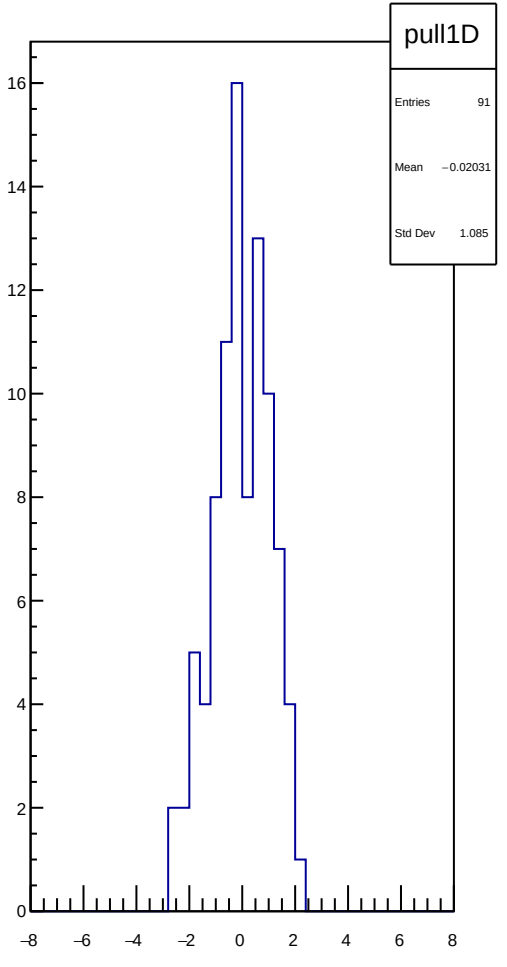

eigen_dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.746e+05 / 90
p0 108.6 ± 0.08511
260
240
220
200
180
160
140
120
100
80

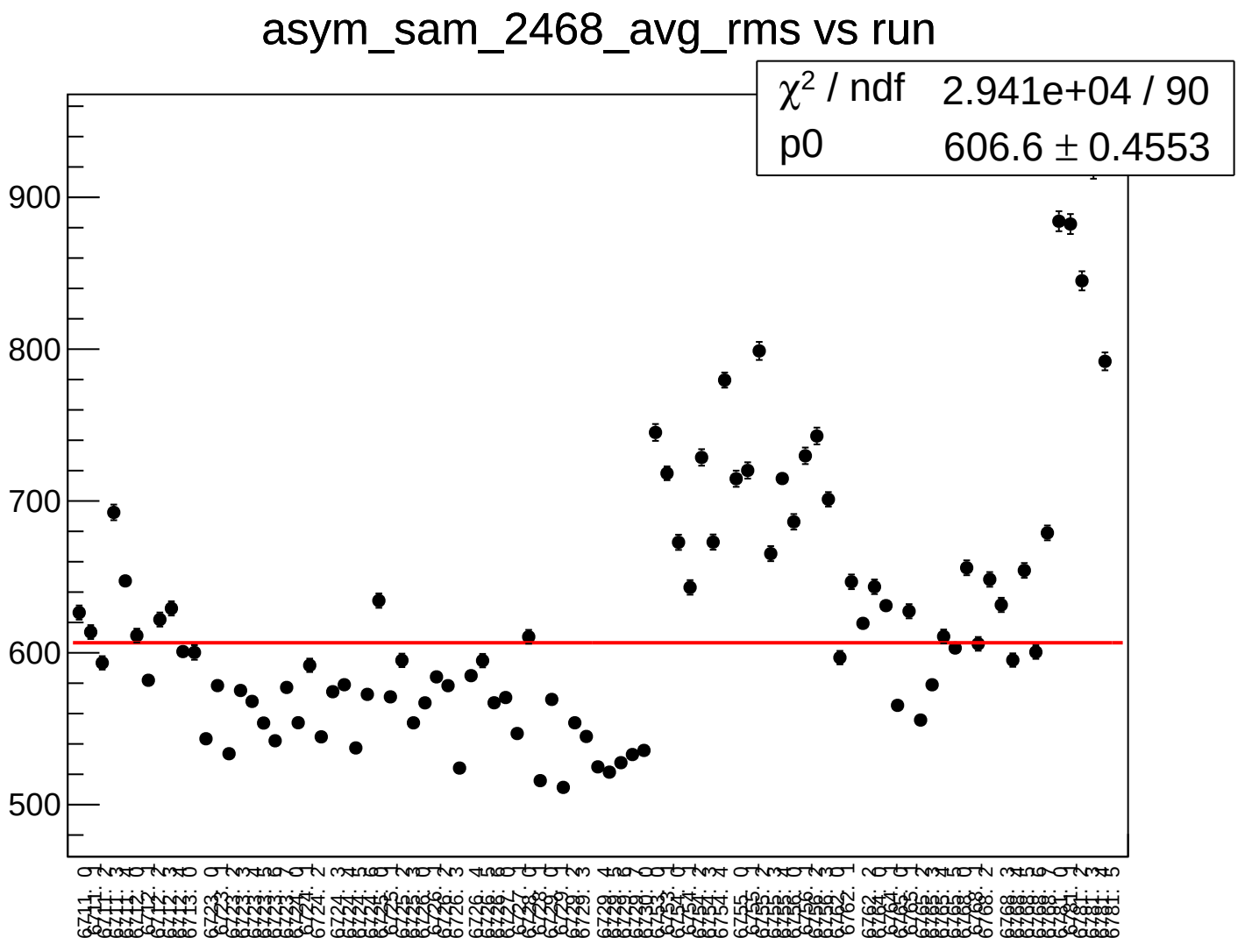

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 102.3 / 90
p0 32.33 ± 655.9
30000
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 36.27
Std Dev 60.69
3
2
1
0
−1
−2

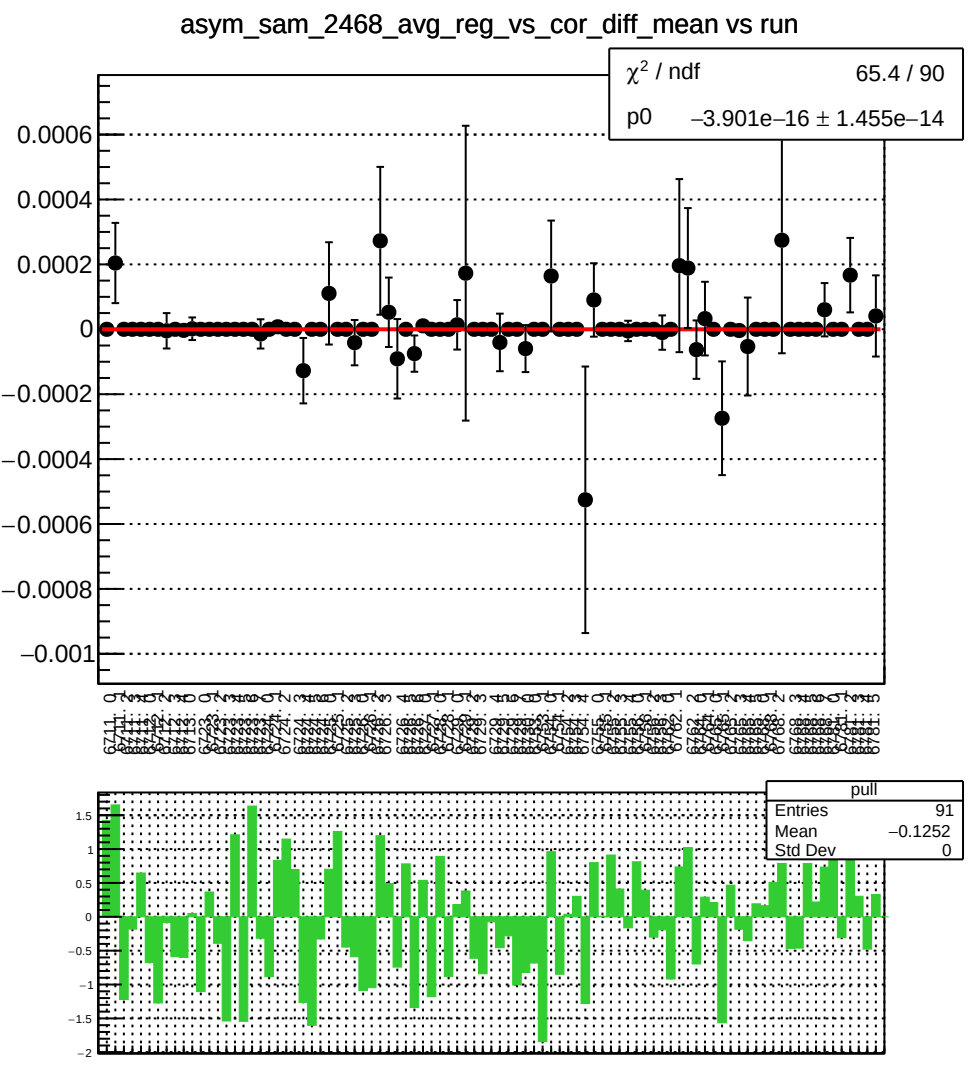

pull1D
Entries 91
Mean 0.02798
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

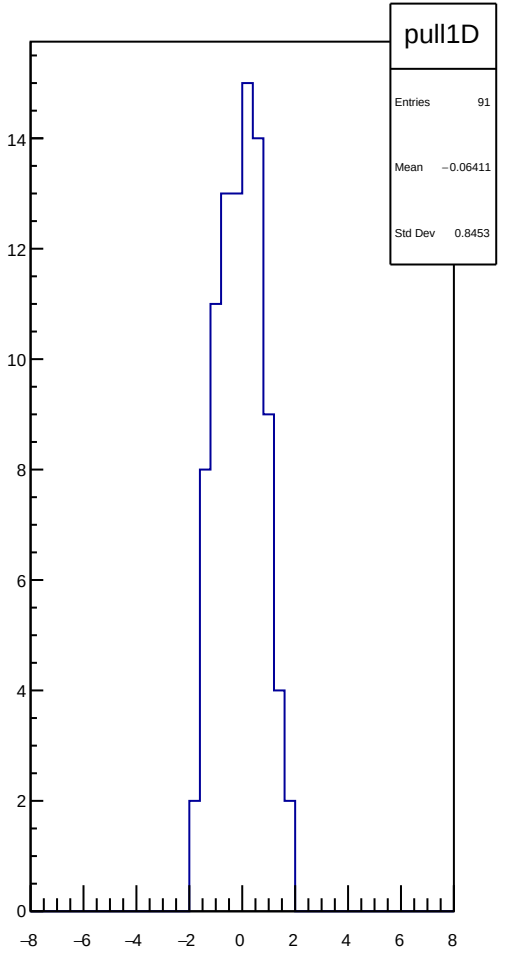

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 7.22e+04 / 90
p0 610.4 ± 0.4638
900
800
700
600
500

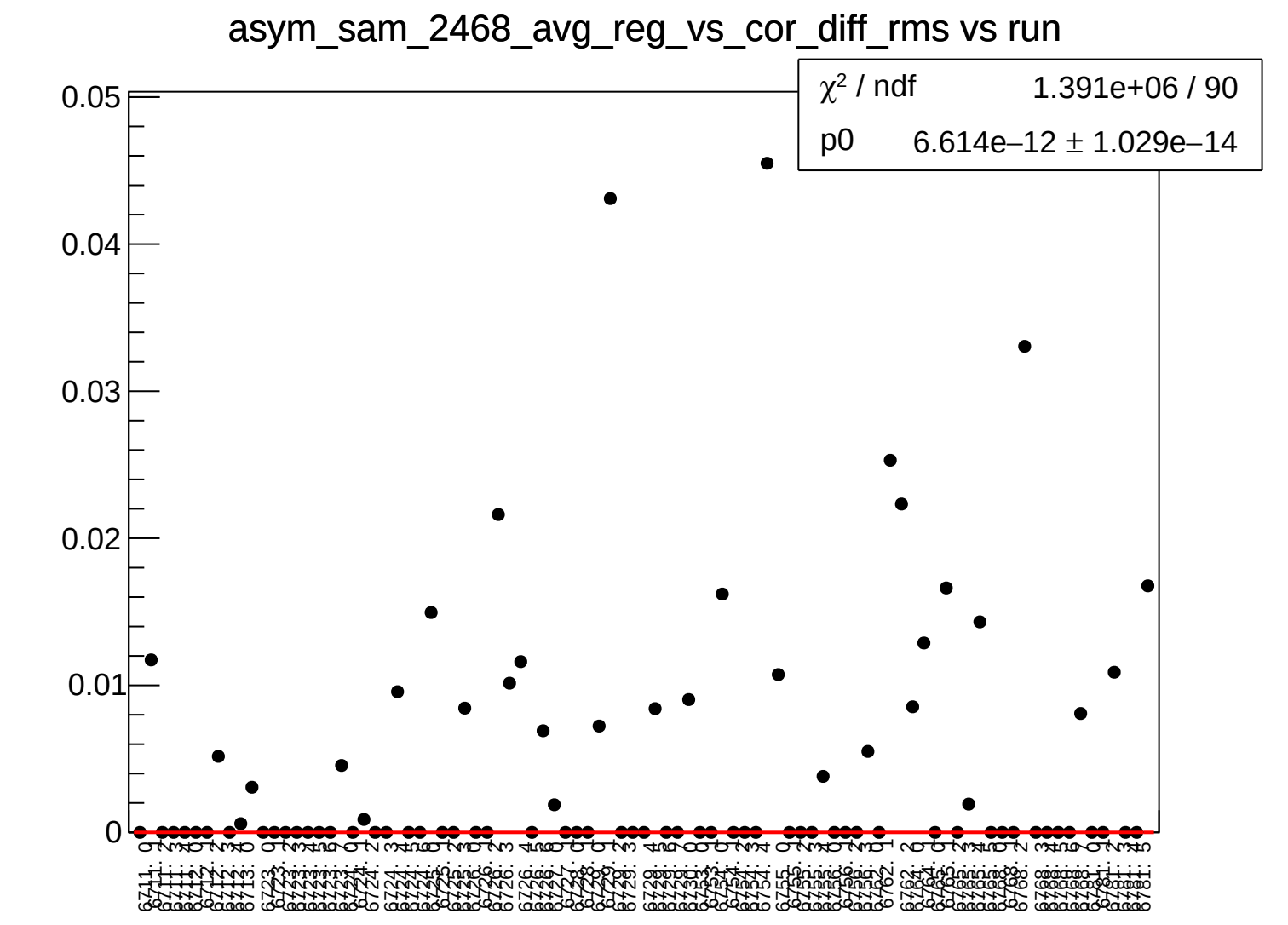

asym_sam_2468_avg_mean vs run
χ² / ndf 107.2 / 90
p0 −78.44 ± 643.9
20000
10000
0
−10000
−20000
pull
Entries 91
Mean 31.33
Std Dev 62.28
2
1
0
−1
−2

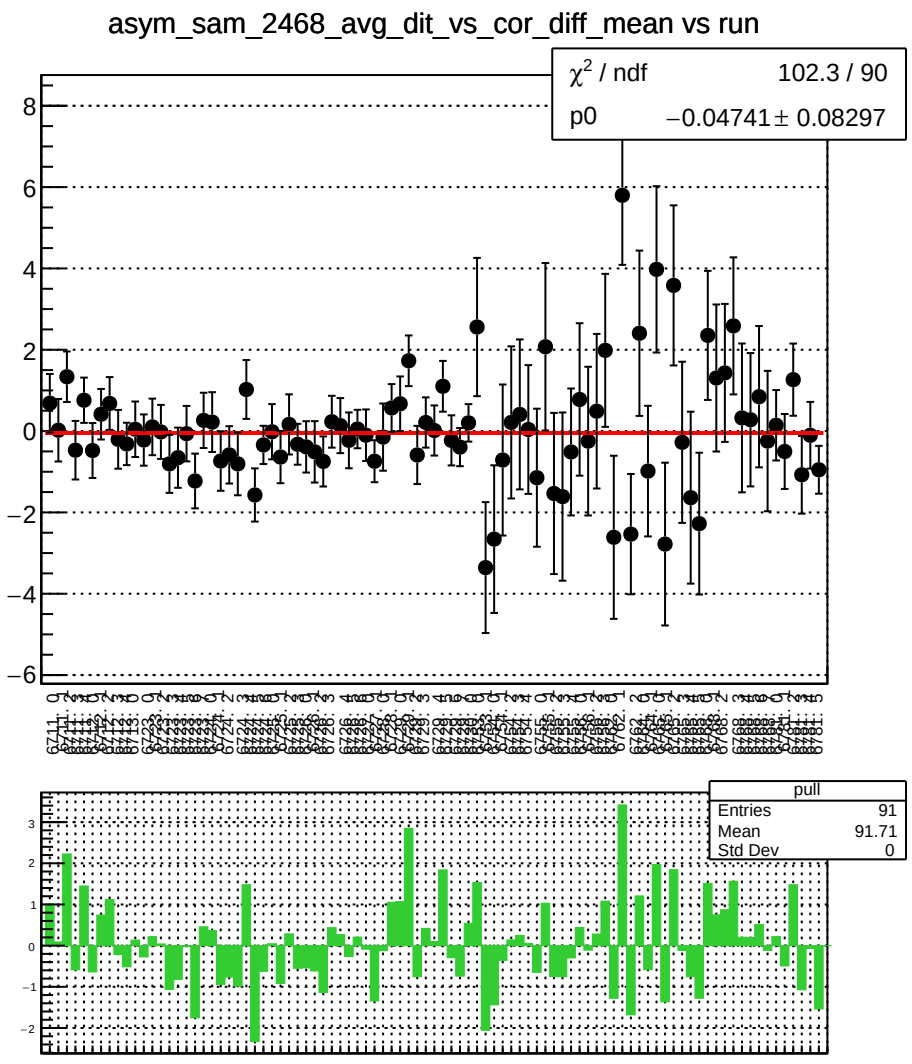

pull1D
Entries 91
Mean −0.02031
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

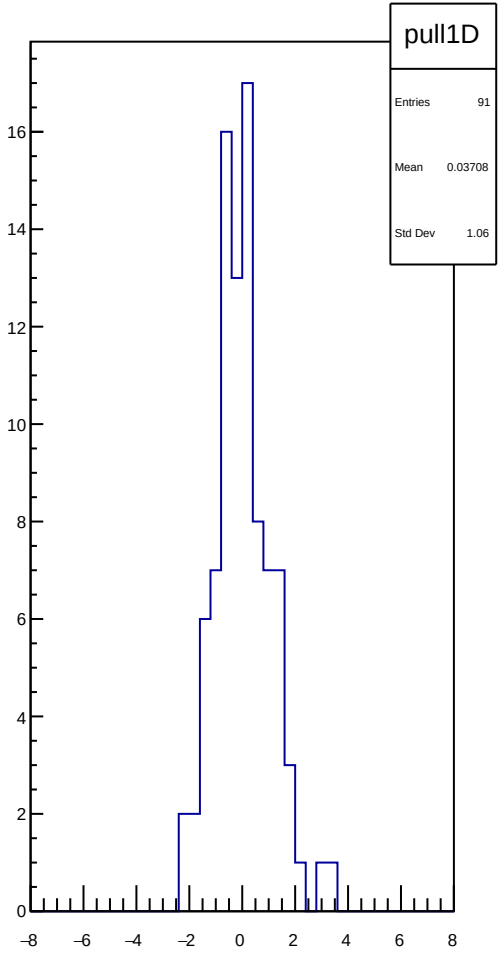

asym_sam_2468_avg_rms vs run
χ² / ndf 2.941e+04 / 90
p0 606.6 ± 0.4553
900
800
700
600
500

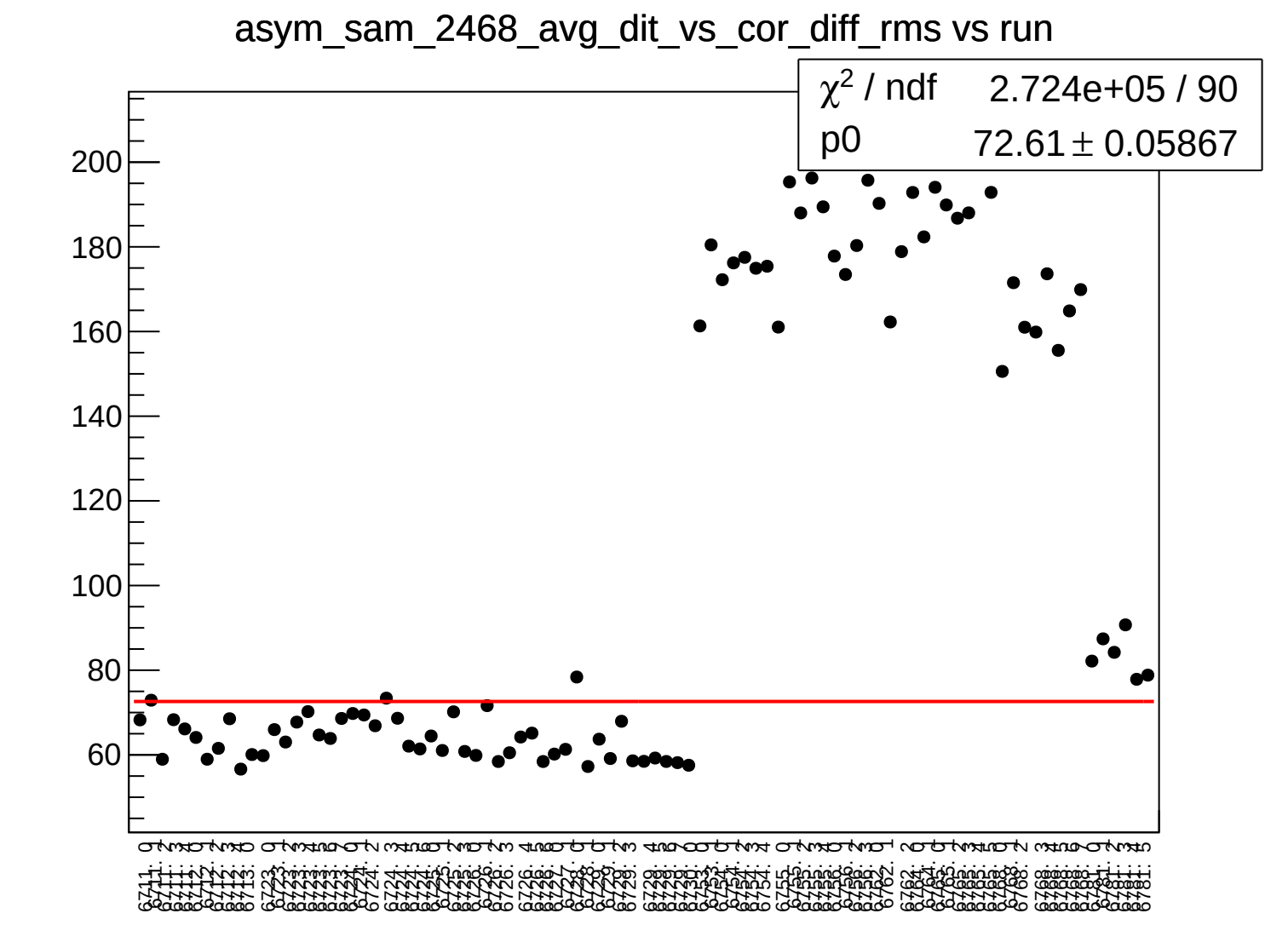

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 65.4 / 90
p0 −3.901e−16 ± 1.455e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 91
Mean −0.1252
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

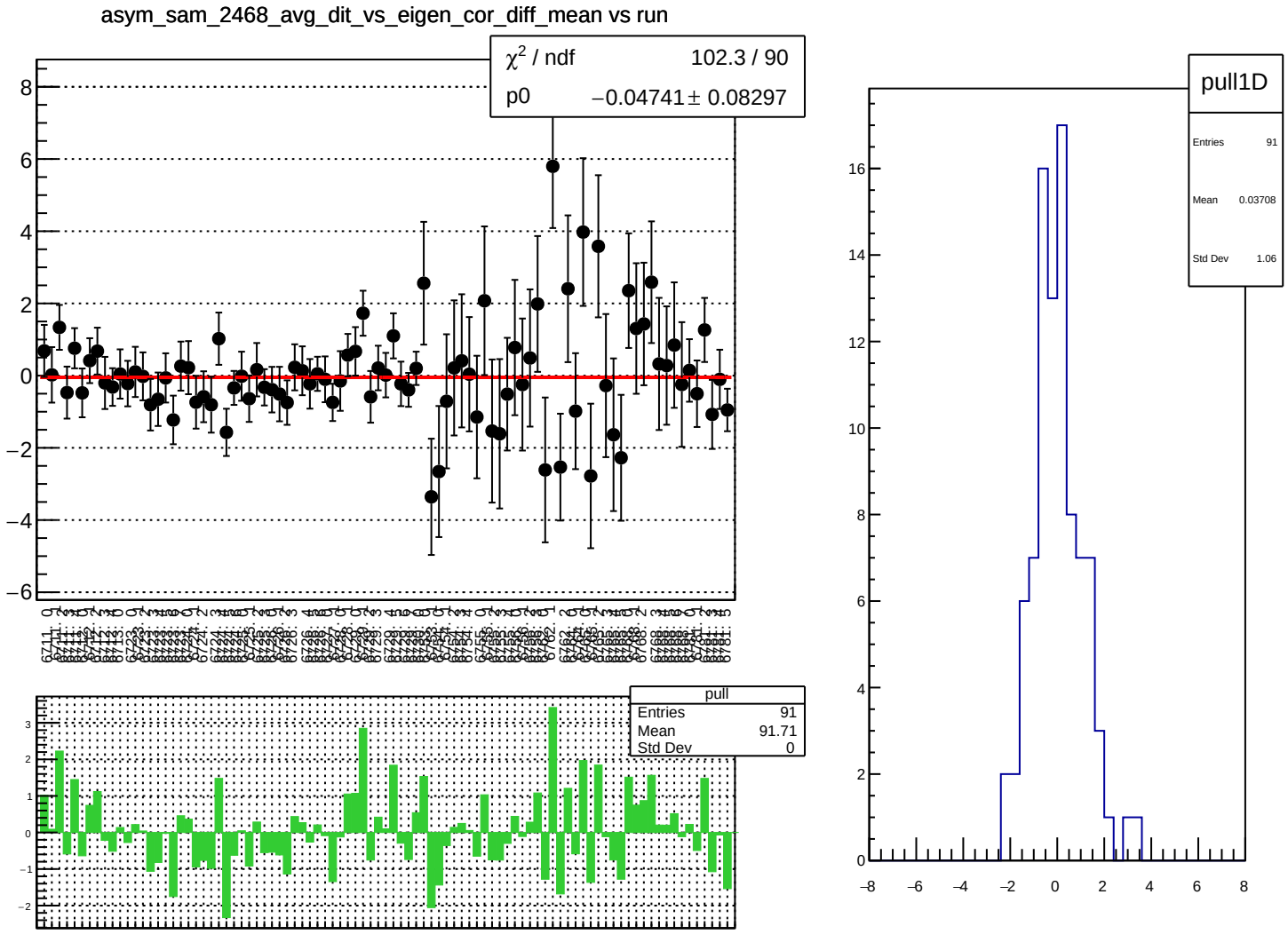

pull1D
Entries 91
Mean −0.06411
Std Dev 0.8453
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

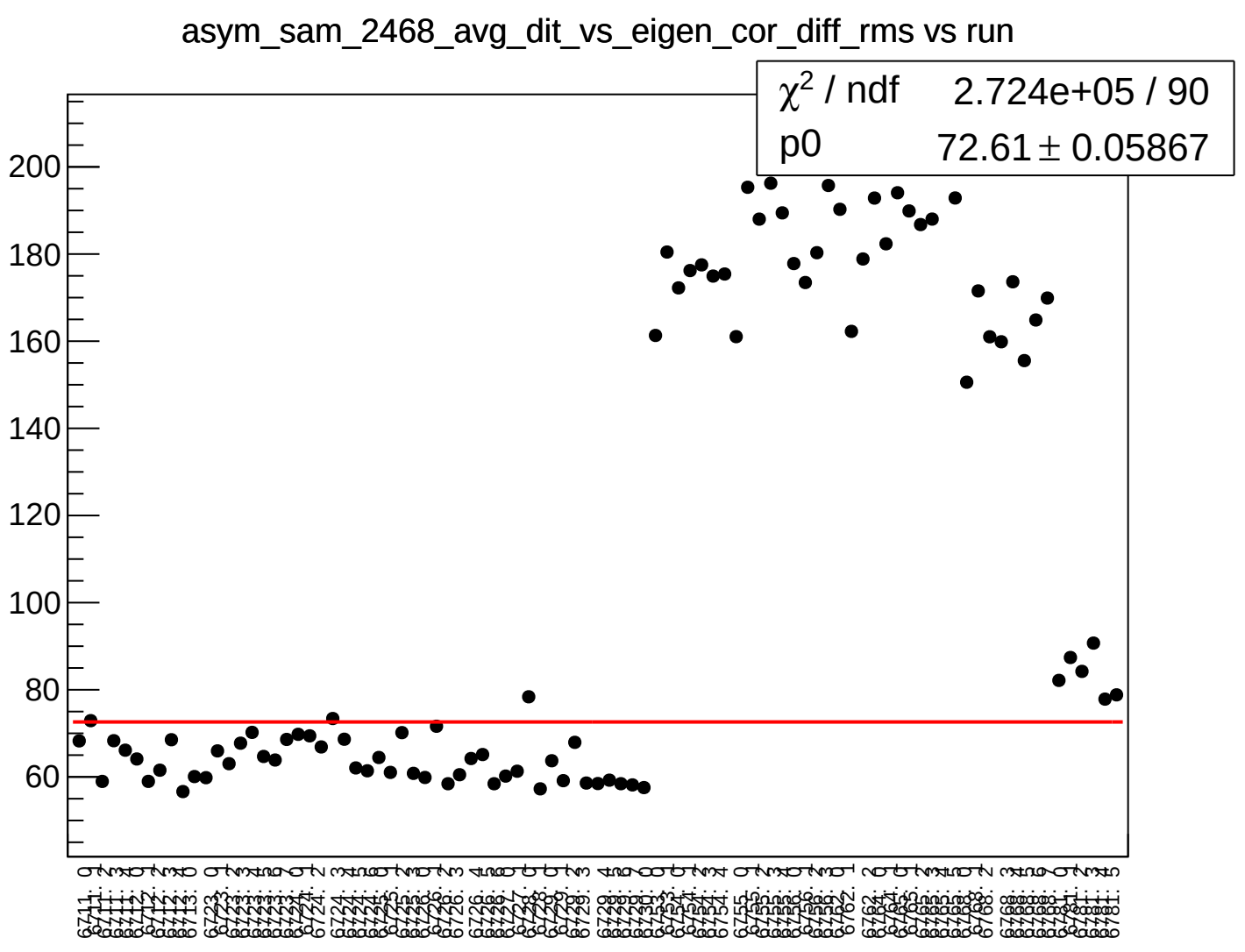

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.391e+06 / 90
p0 6.614e−12 ± 1.029e−14
0.05
0.04
0.03
0.02
0.01
0

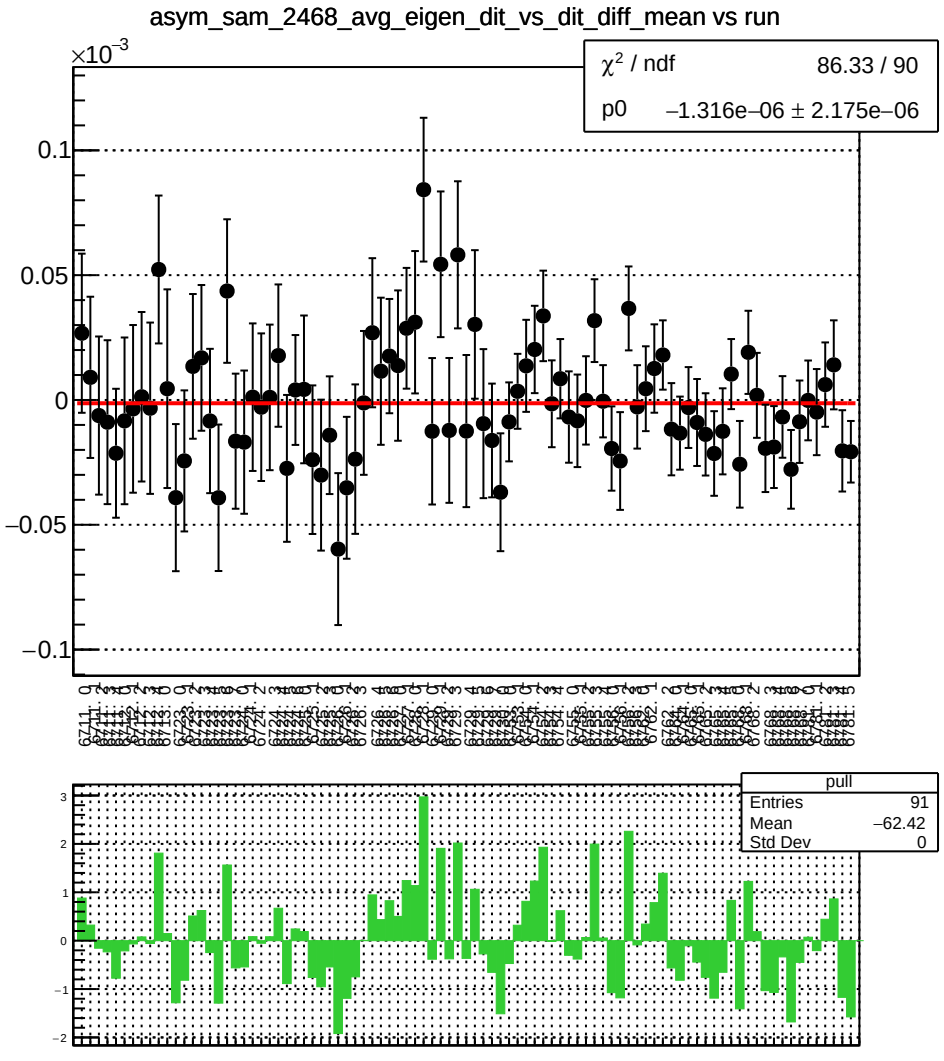

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 102.3 / 90
p0 −0.04741 ± 0.08297
pull
Entries 91
Mean 91.71
Std Dev 0

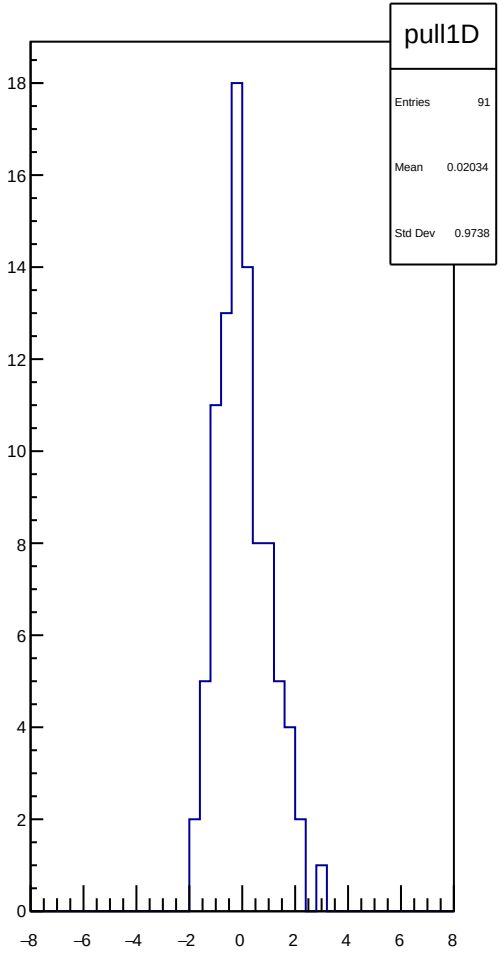

pull1D
Entries 91
Mean 0.03708
Std Dev 1.06

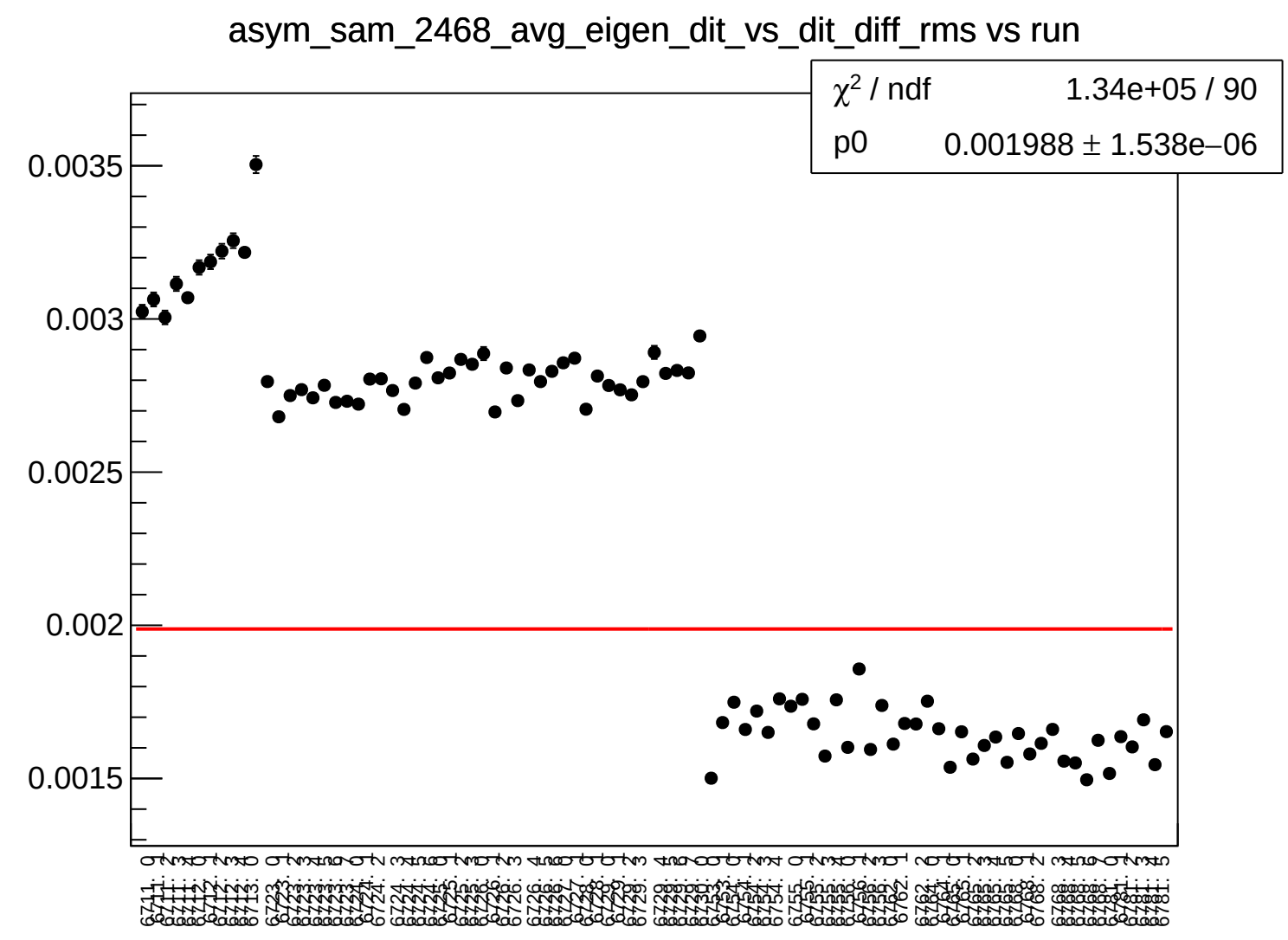

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.724e+05 / 90
p0 72.61 ± 0.05867
200
180
160
140
120
100
80
60

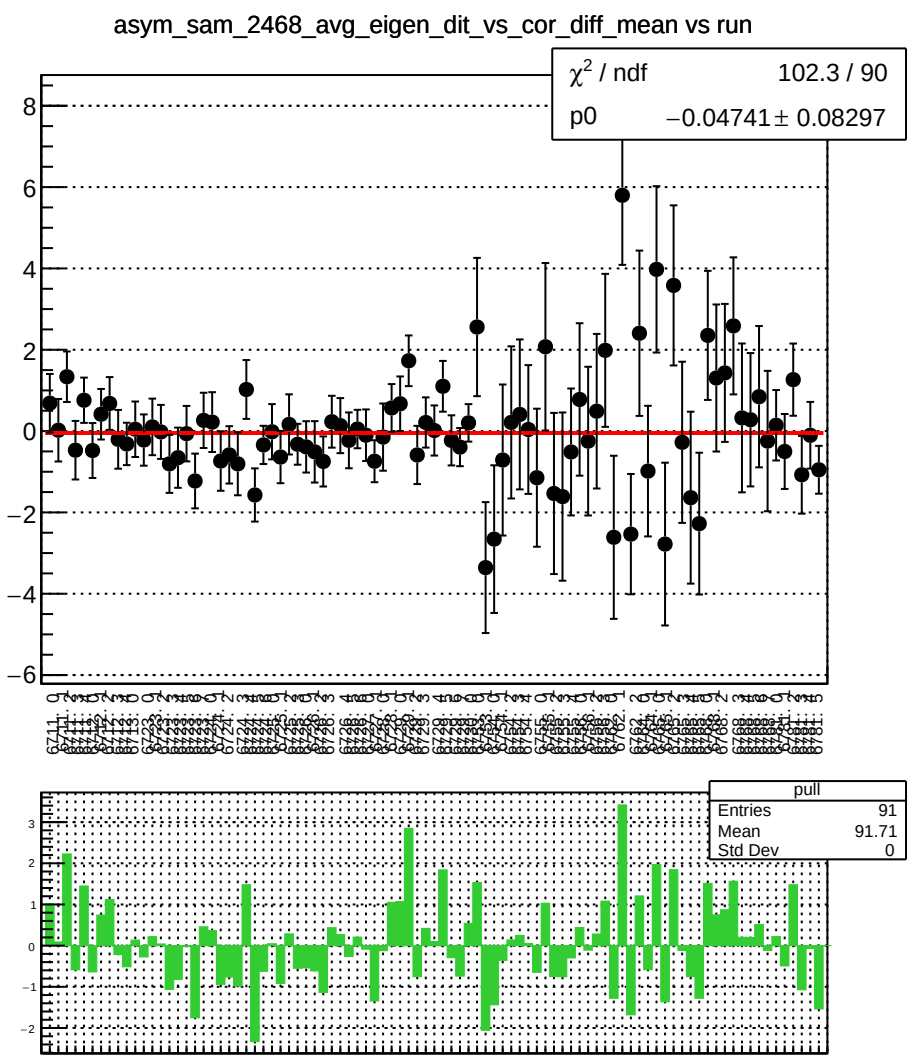

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.3 / 90
p0 −0.04741 ± 0.08297
pull
Entries 91
Mean 91.71
Std Dev 0
pull1D
Entries 91
Mean 0.03708
Std Dev 1.06

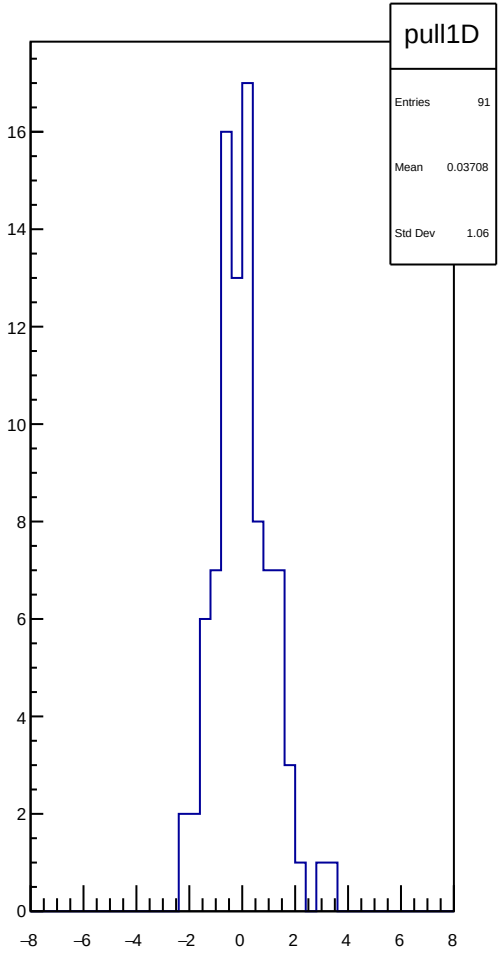

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.724e+05 / 90
p0 72.61 ± 0.05867
200
180
160
140
120
100
80
60

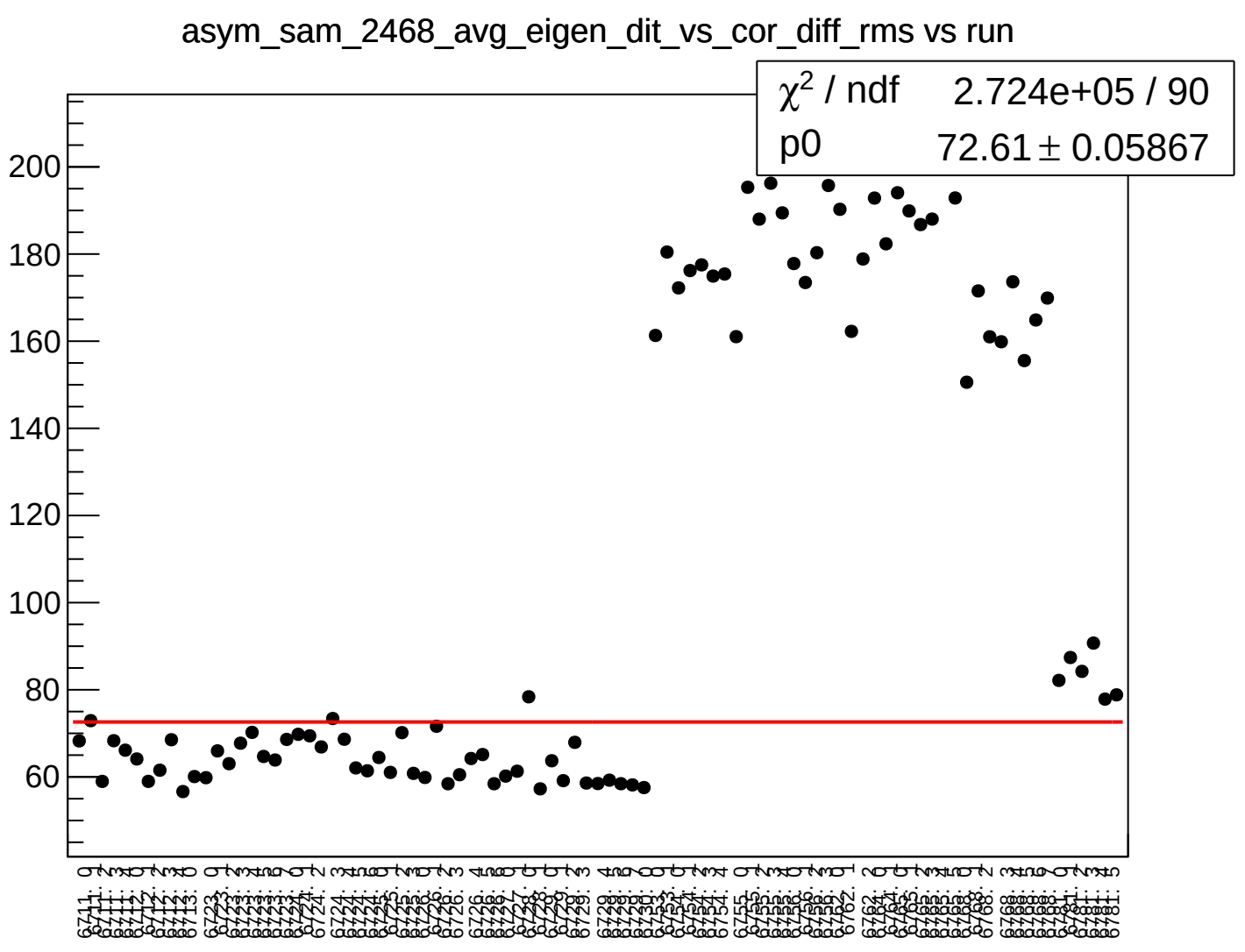

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.33 / 90
p0 −1.316e−06 ± 2.175e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 91
Mean −62.42
Std Dev 0
3
2
1
0
−1
−2

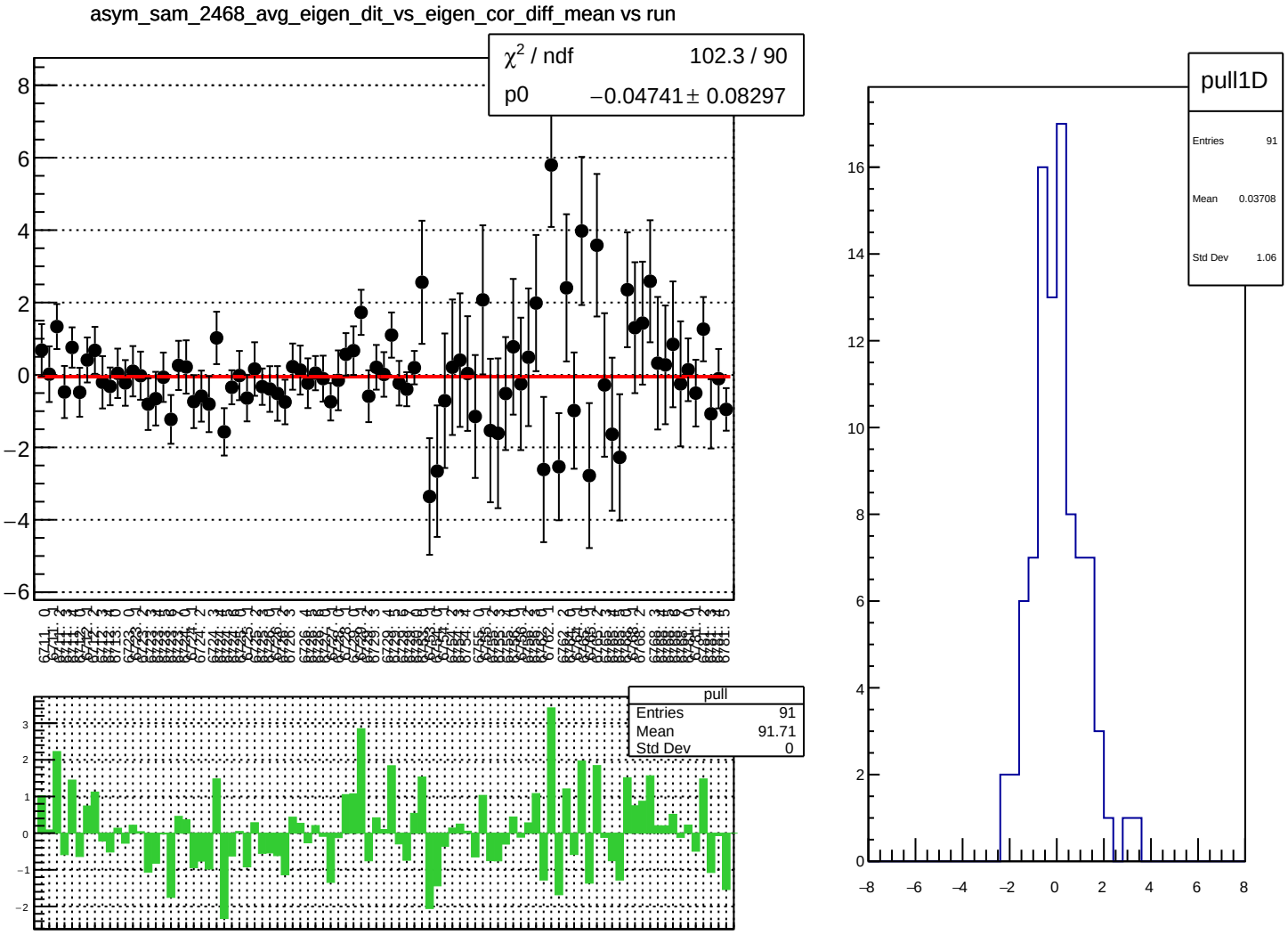

pull1D
Entries 91
Mean 0.02034
Std Dev 0.9738
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

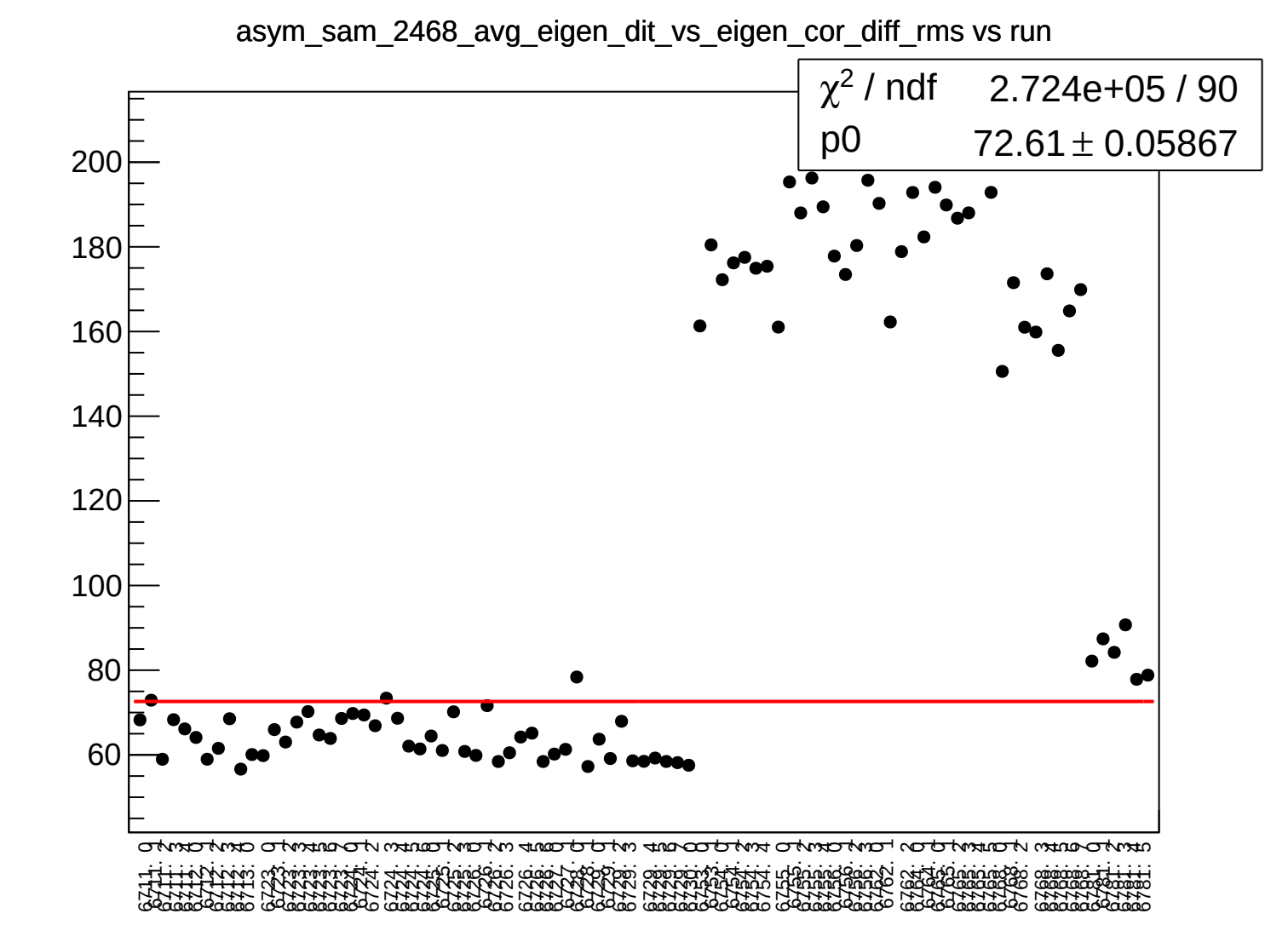

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.34e+05 / 90
p0 0.001988 ± 1.538e−06
0.0035
0.003
0.0025
0.002
0.0015

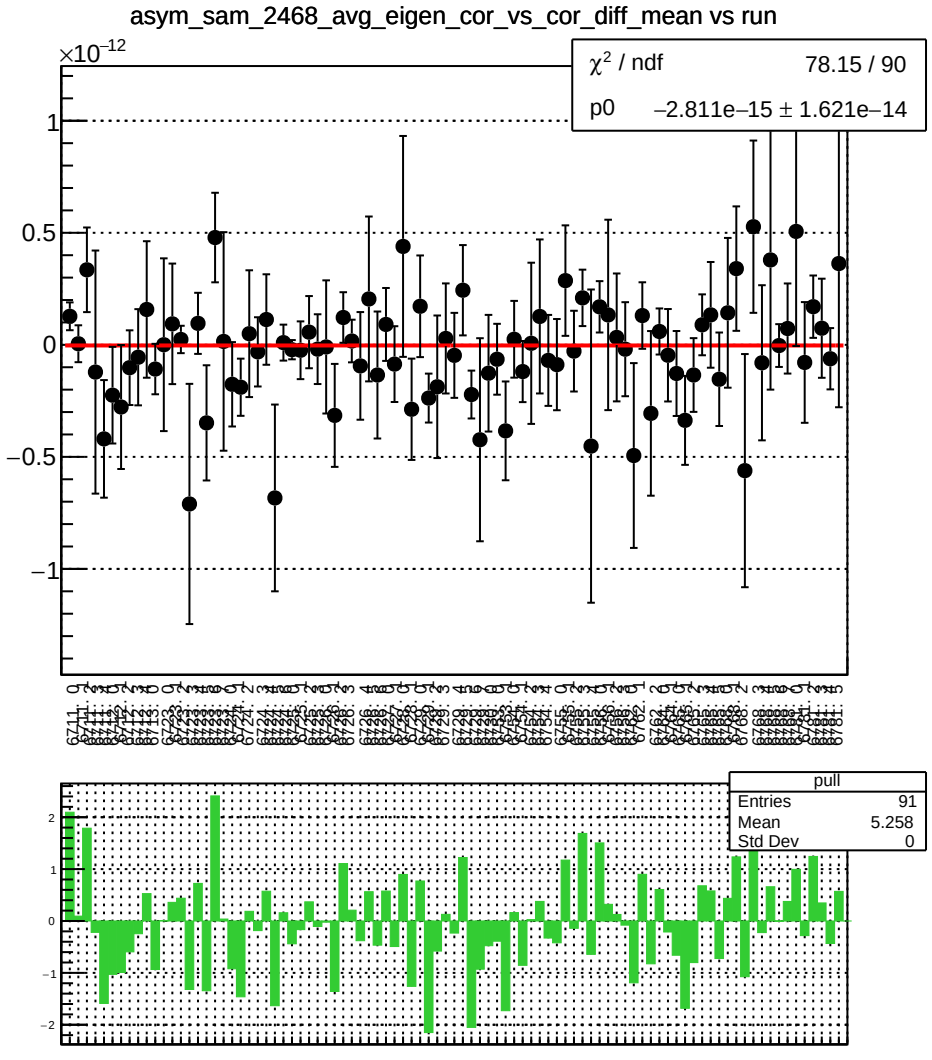

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.3 / 90
p0 −0.04741 ± 0.08297
pull
Entries 91
Mean 91.71
Std Dev 0

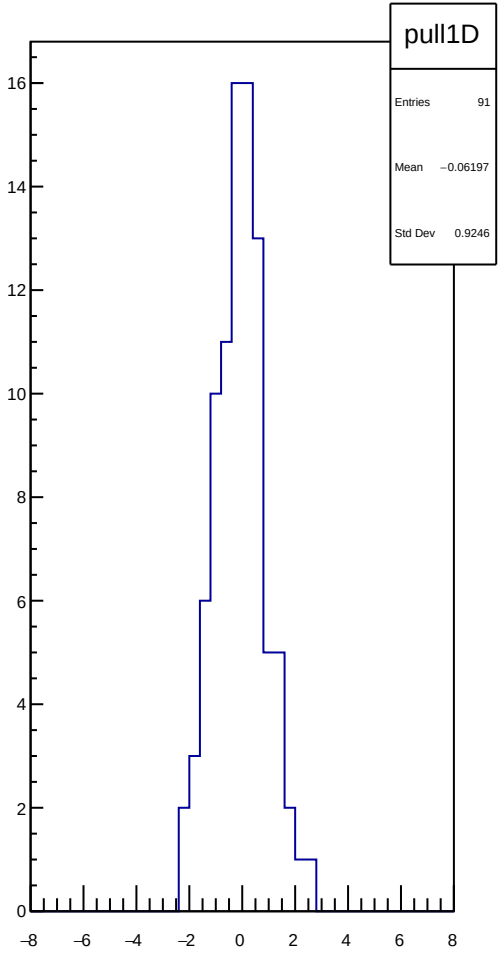

pull1D
Entries 91
Mean 0.03708
Std Dev 1.06

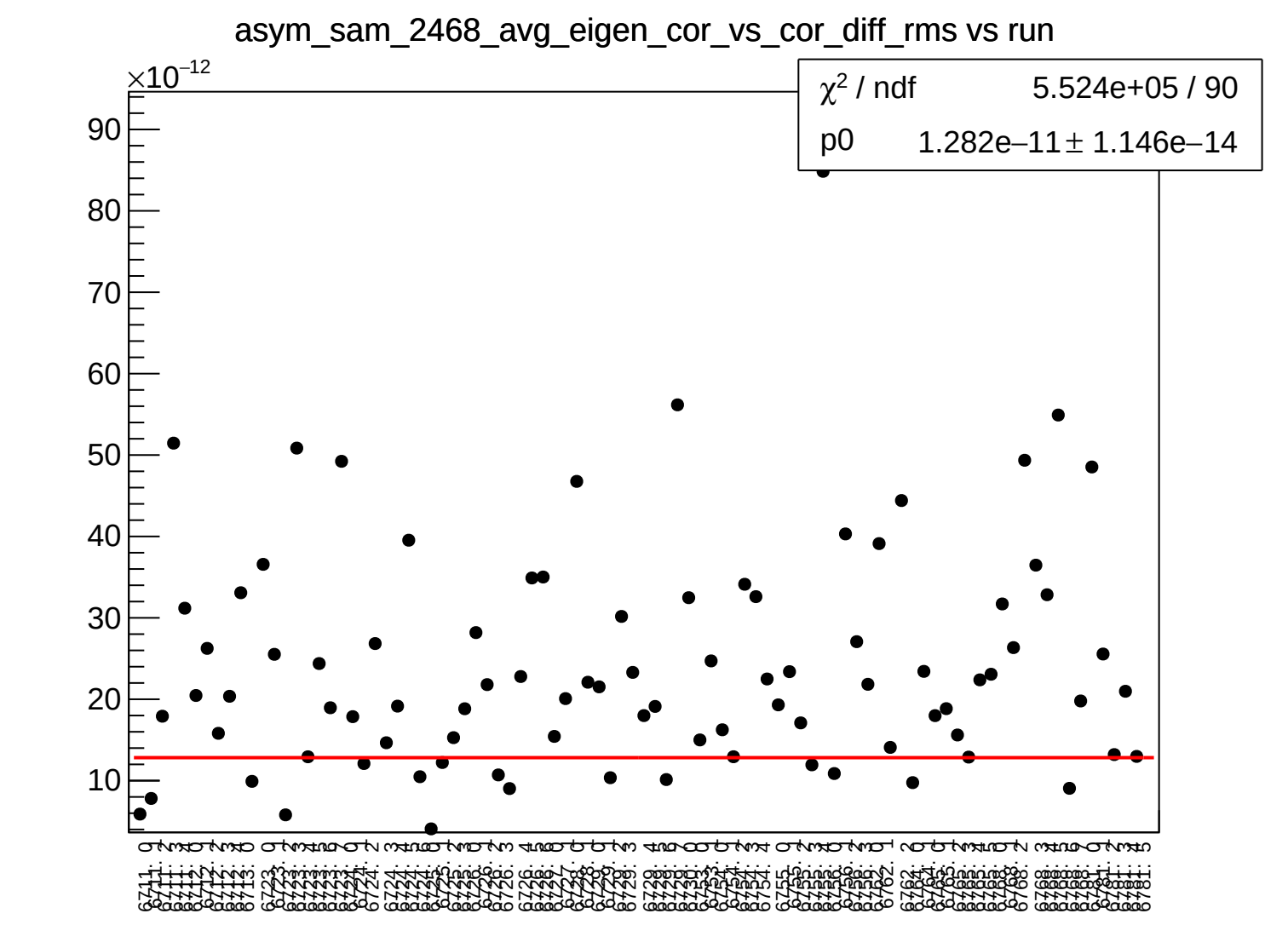

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.724e+05 / 90
p0 72.61 ± 0.05867
200
180
160
140
120
100
80
60

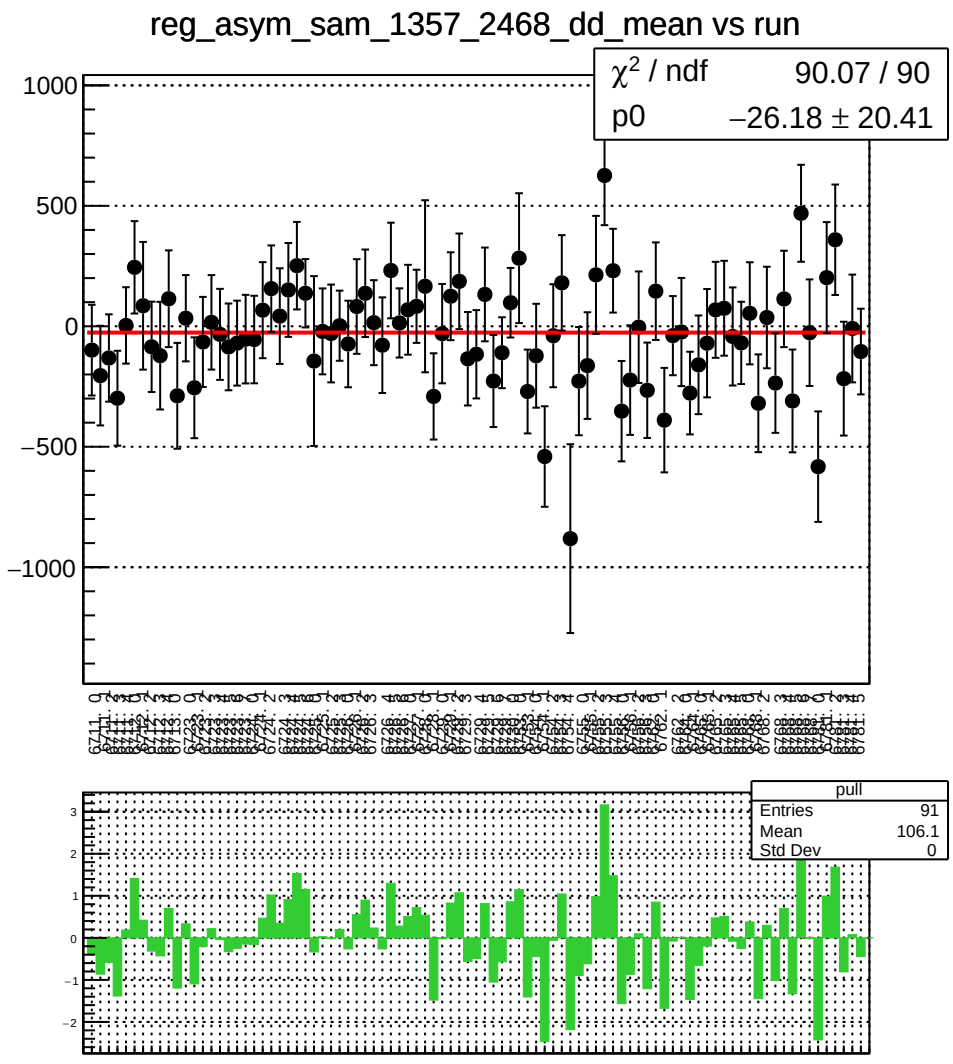

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.3 / 90
p0 −0.04741 ± 0.08297
pull
Entries 91
Mean 91.71
Std Dev 0
pull1D
Entries 91
Mean 0.03708
Std Dev 1.06

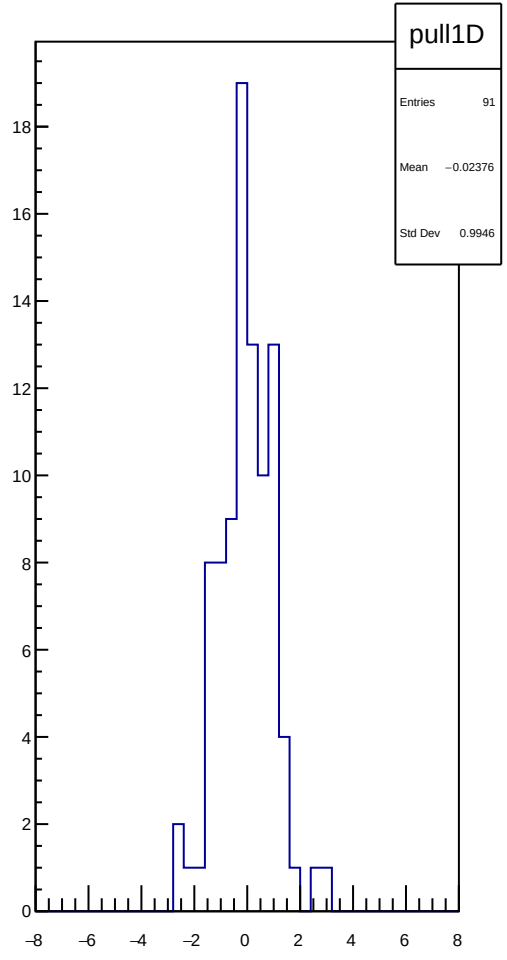

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.724e+05 / 90
p0 72.61 ± 0.05867
200
180
160
140
120
100
80
60

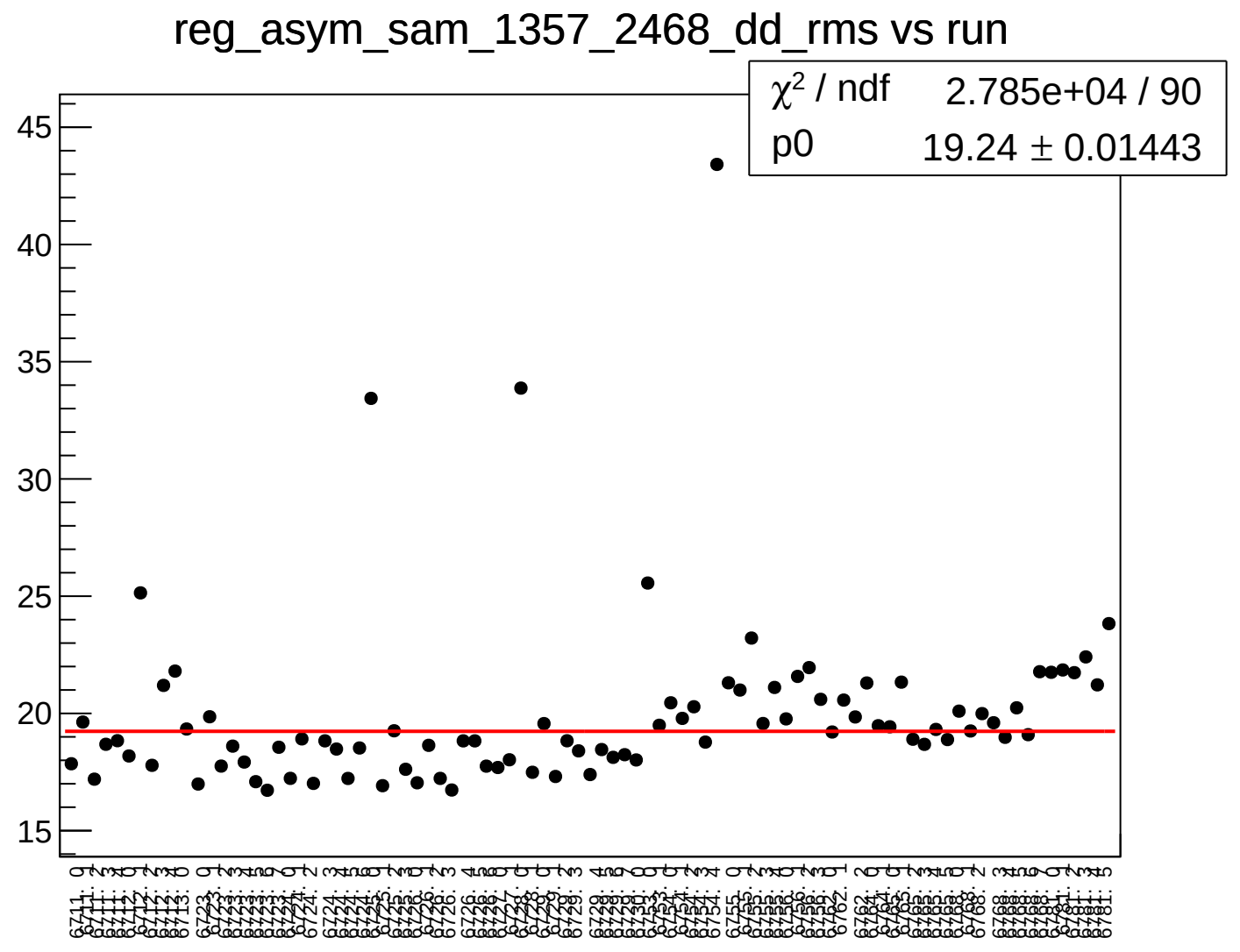

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.15 / 90
p0 −2.811e−15 ± 1.621e−14
pull
Entries 91
Mean 5.258
Std Dev 0

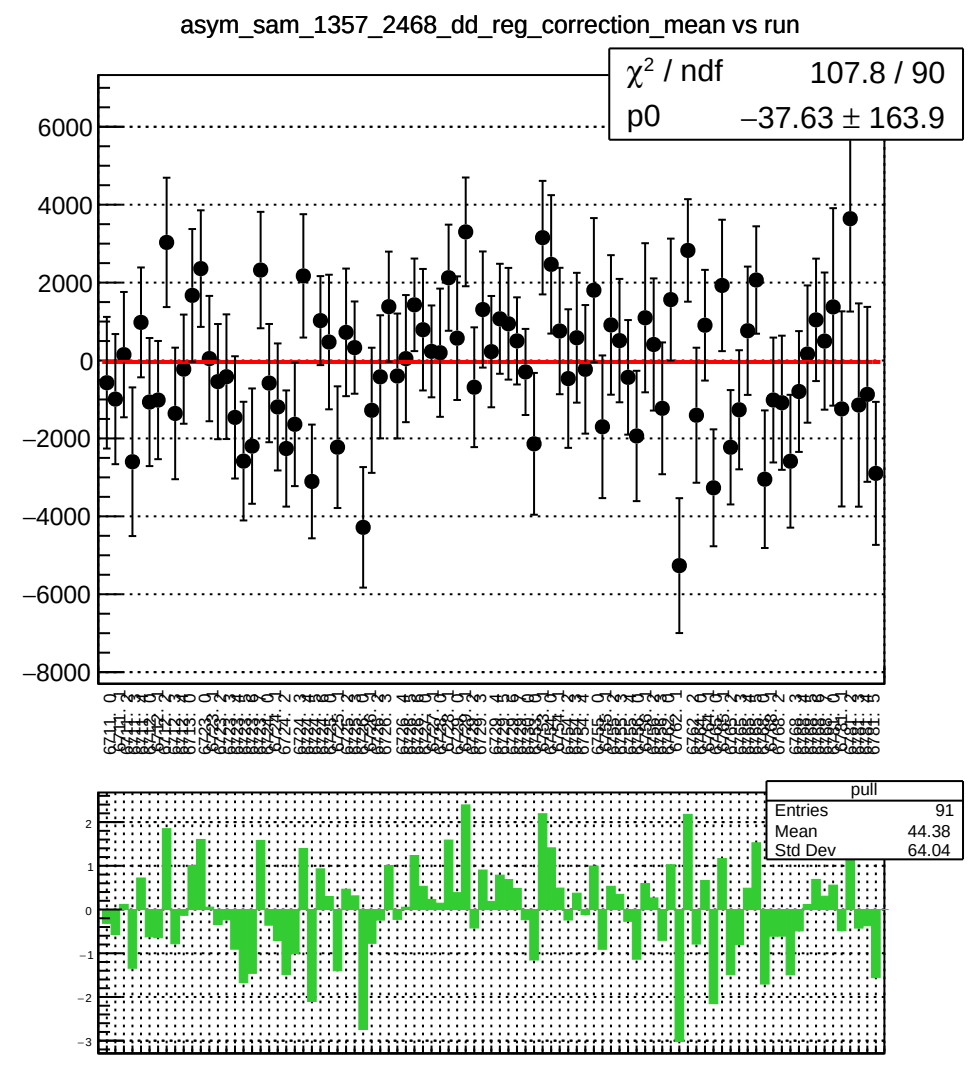

pull1D
Entries 91
Mean −0.06197
Std Dev 0.9246

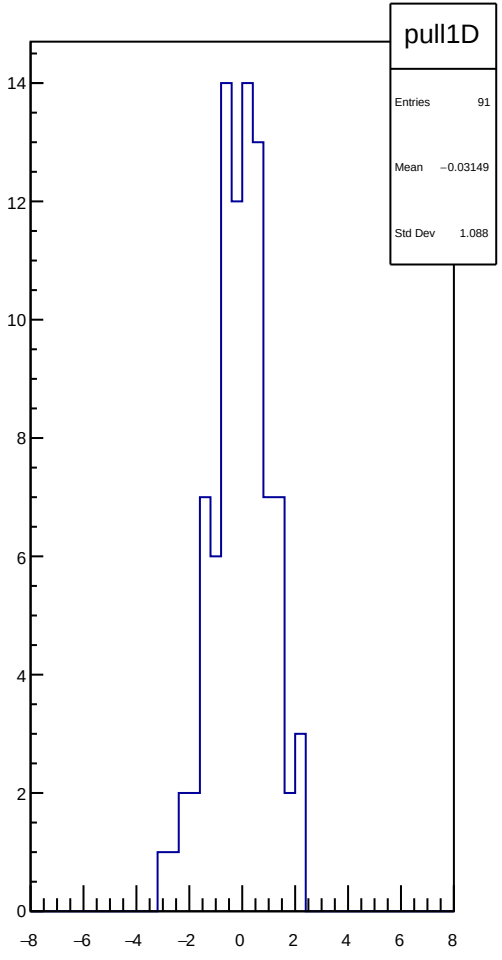

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.524e+05 / 90
p0 1.282e−11 ± 1.146e−14
90
80
70
60
50
40
30
20
10

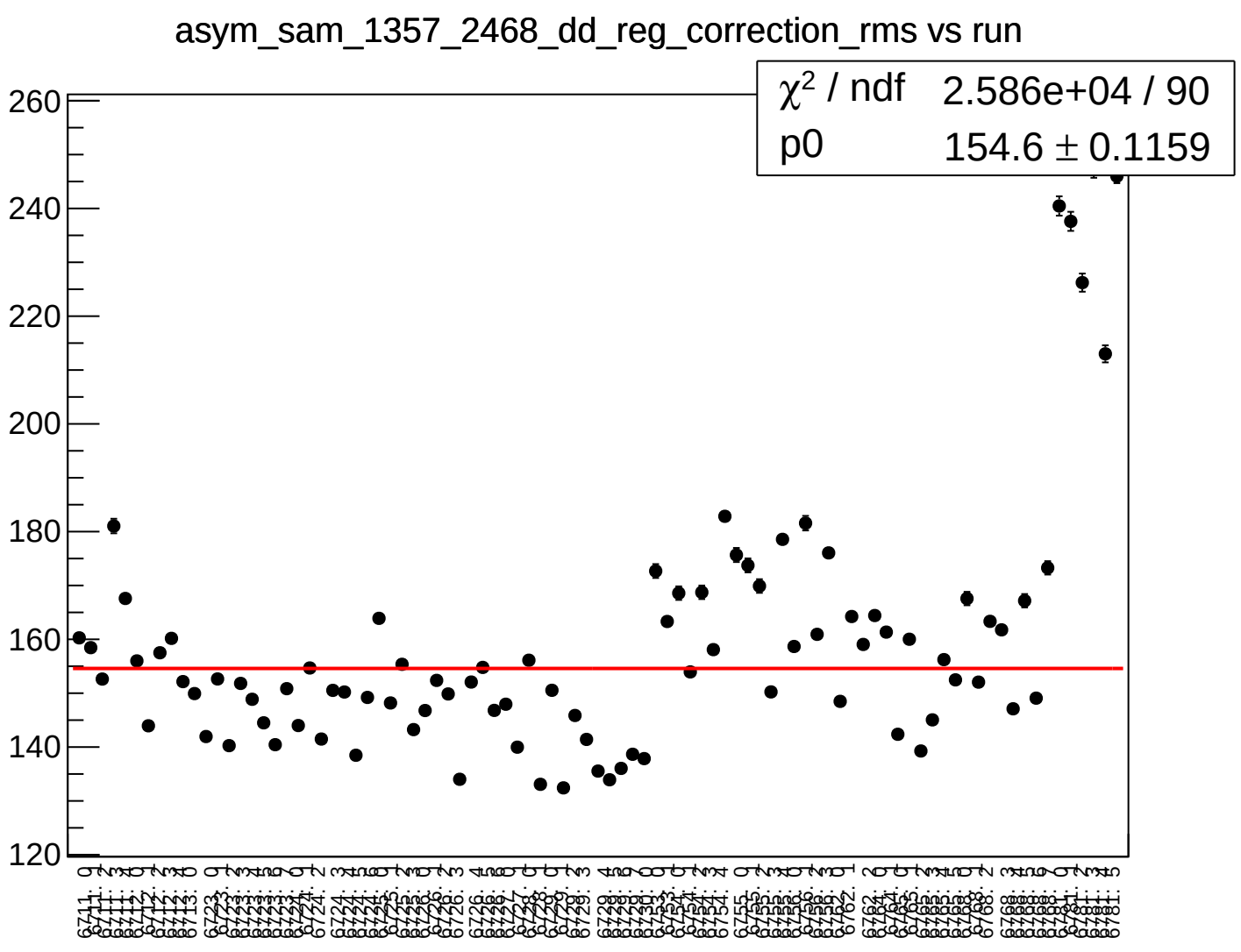

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 90.07 / 90
p0 −26.18 ± 20.41
1000
500
0
−500
−1000
pull
Entries 91
Mean 106.1
Std Dev 0
3
2
1
0
−1
−2

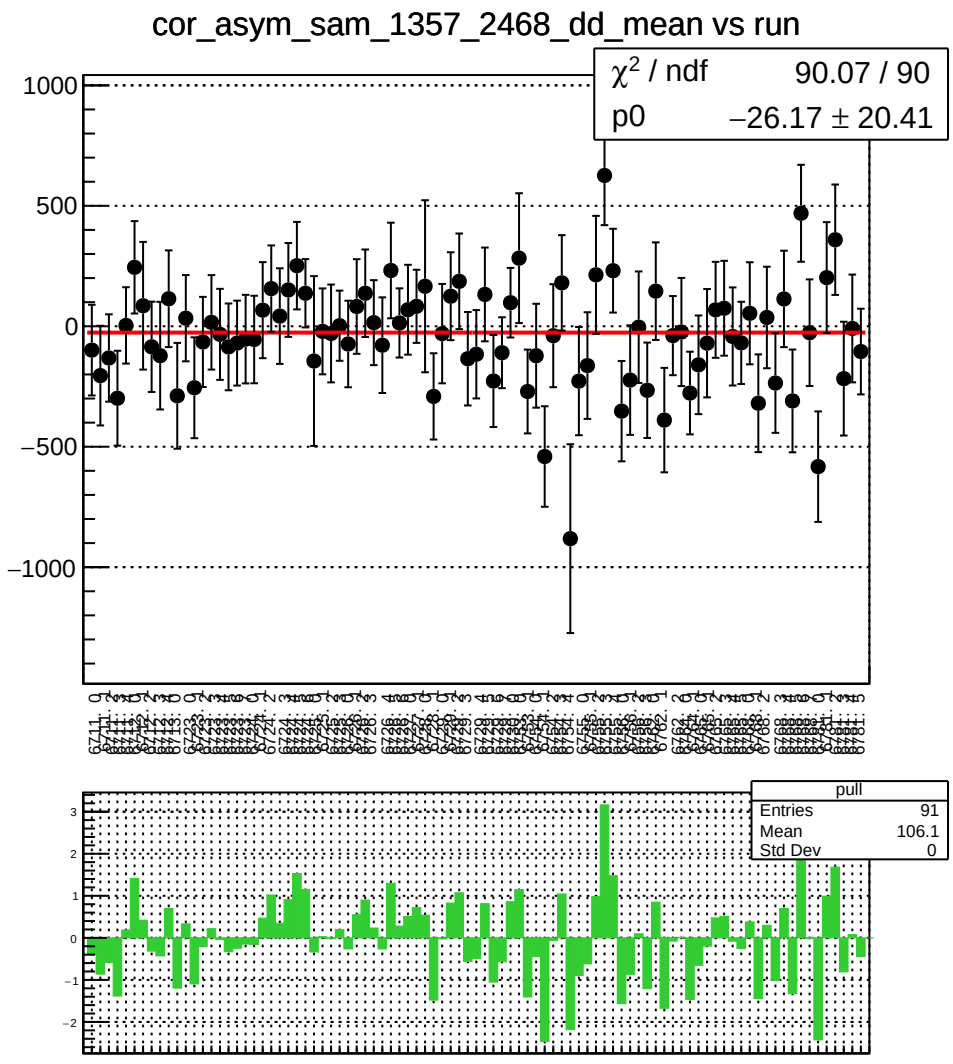

pull1D
Entries 91
Mean −0.02376
Std Dev 0.9946
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

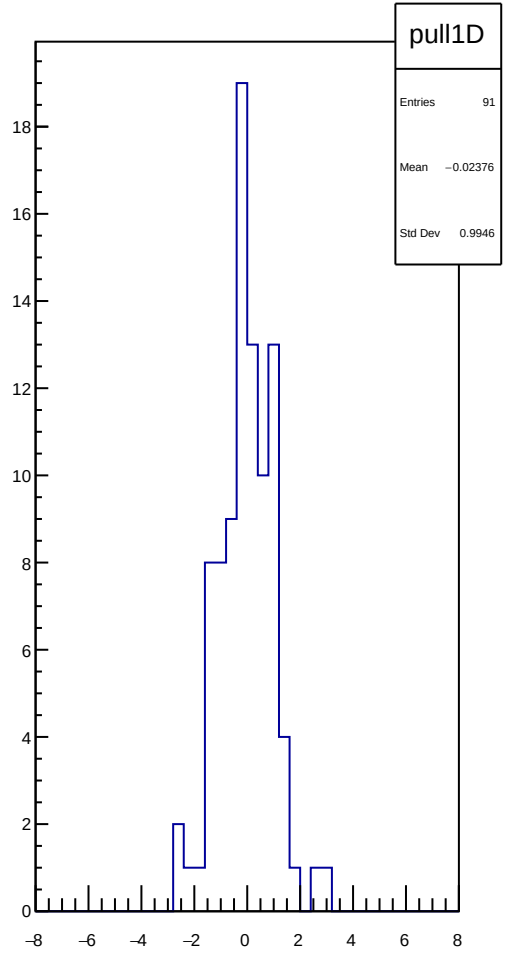

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.785e+04 / 90
p0 19.24 ± 0.01443
45
40
35
30
25
20
15

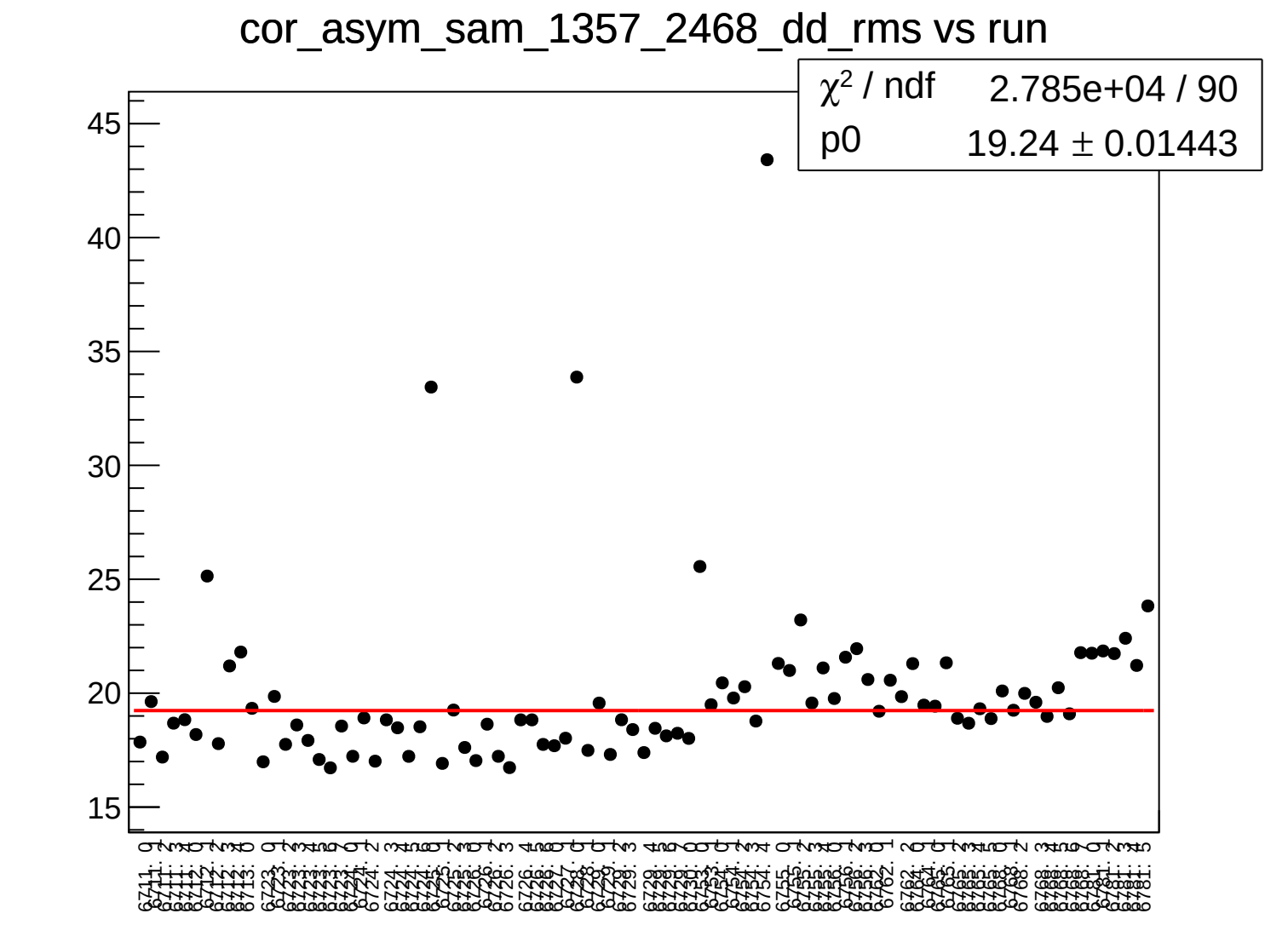

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 107.8 / 90
p0 −37.63 ± 163.9
pull
Entries 91
Mean 44.38
Std Dev 64.04

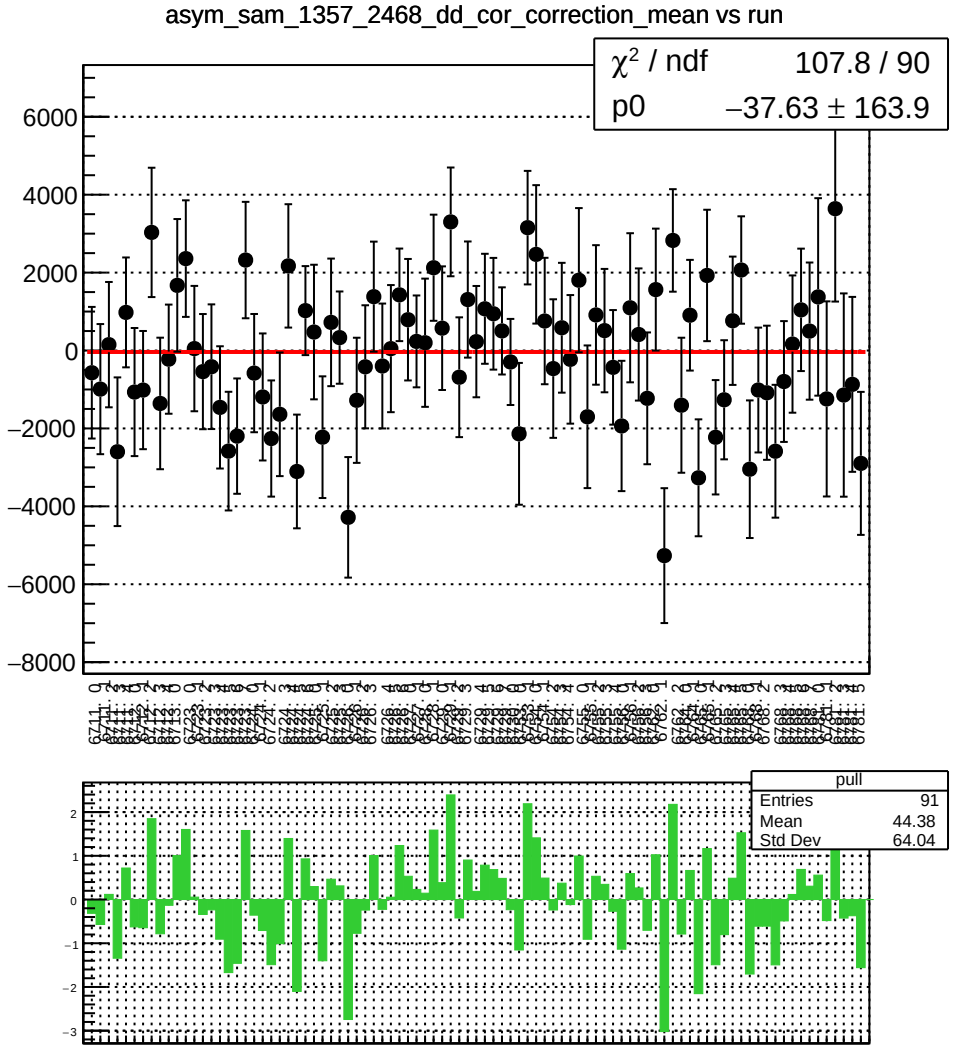

pull1D
Entries 91
Mean −0.03149
Std Dev 1.088

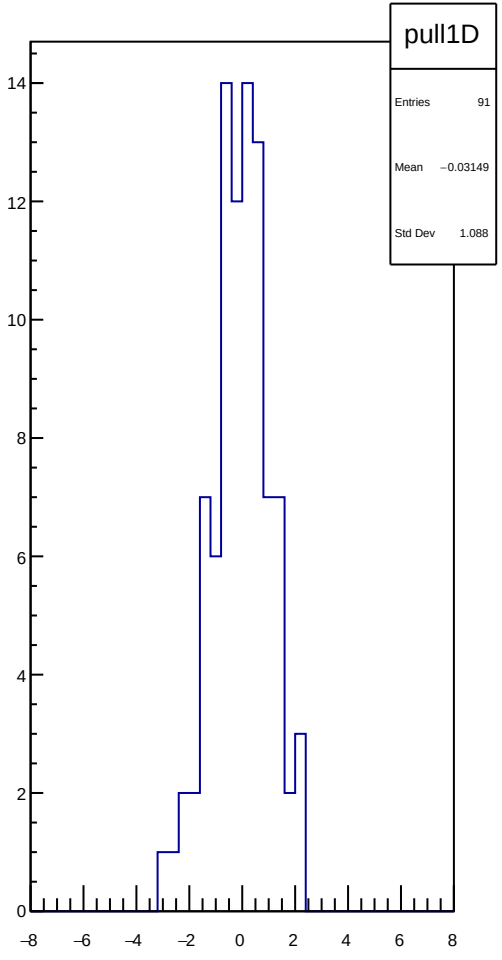

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 2.586e+04 / 90
p0 154.6 ± 0.1159
260
240
220
200
180
160
140
120

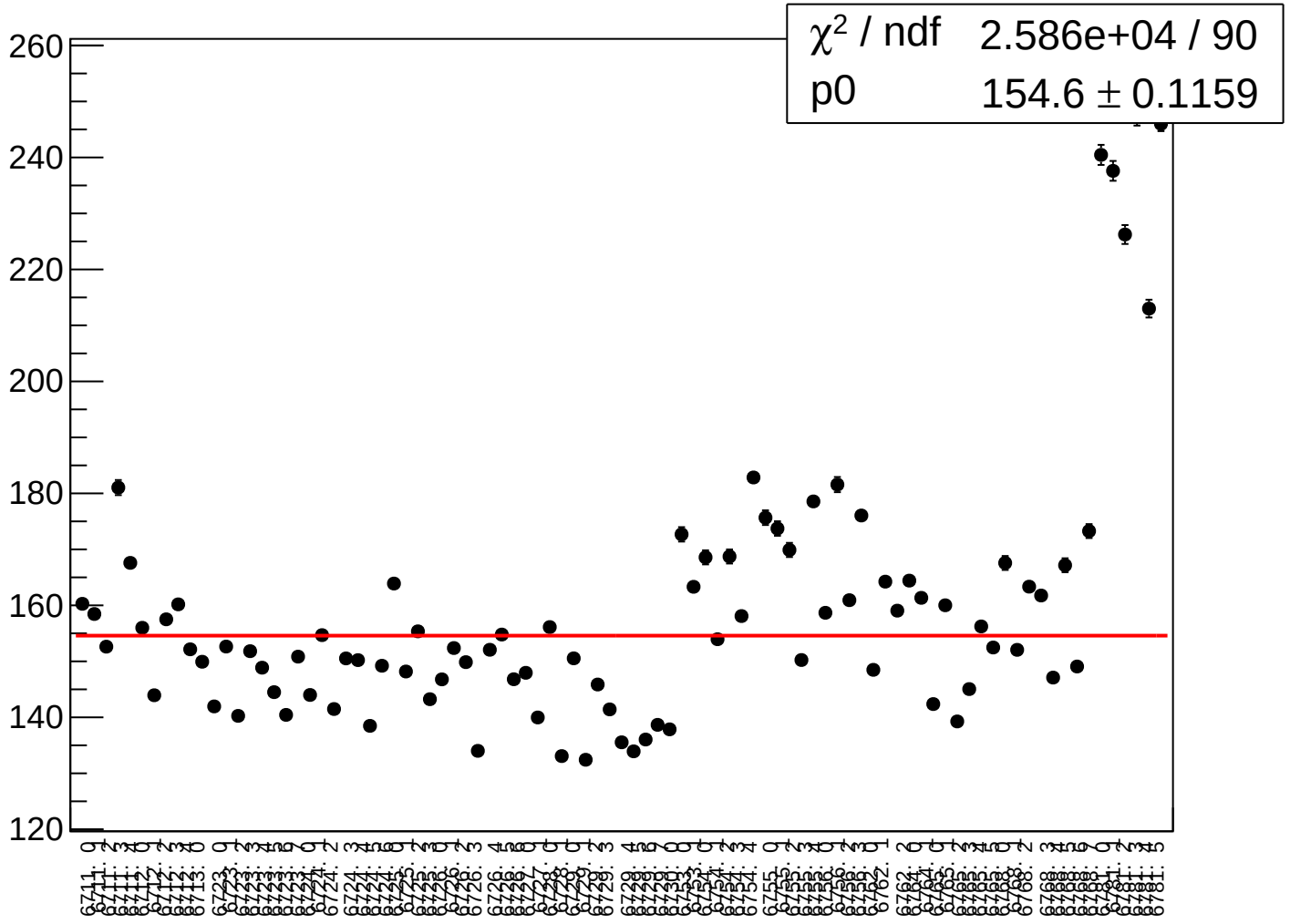

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 90.07 / 90
p0 −26.17 ± 20.41
1000
500
0
−500
−1000
pull
Entries 91
Mean 106.1
Std Dev 0
3
2
1
0
−1
−2

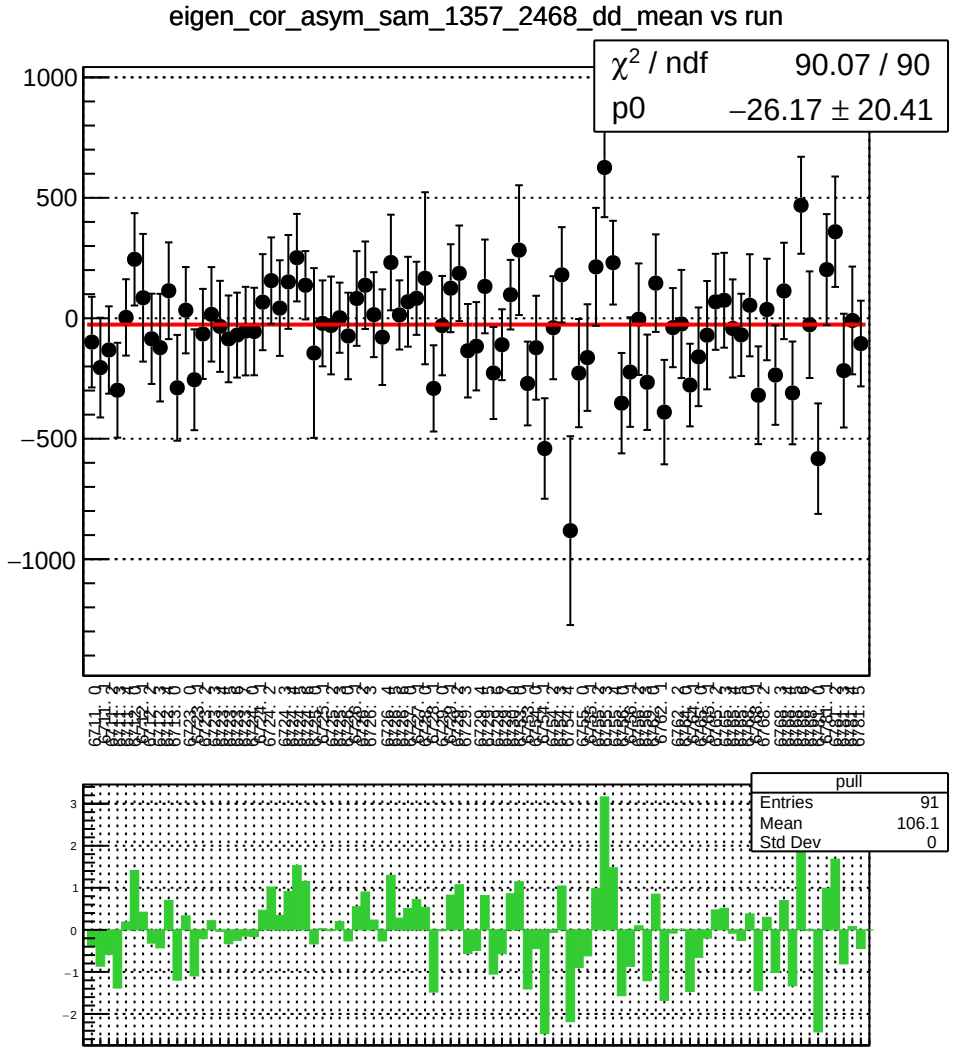

pull1D
Entries 91
Mean −0.02376
Std Dev 0.9946
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

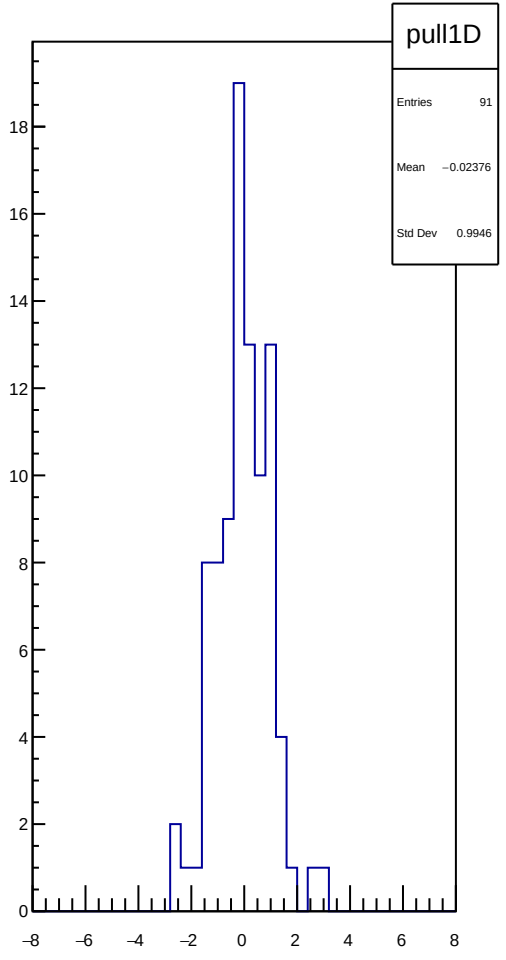

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.785e+04 / 90
p0 19.24 ± 0.01443
45
40
35
30
25
20
15

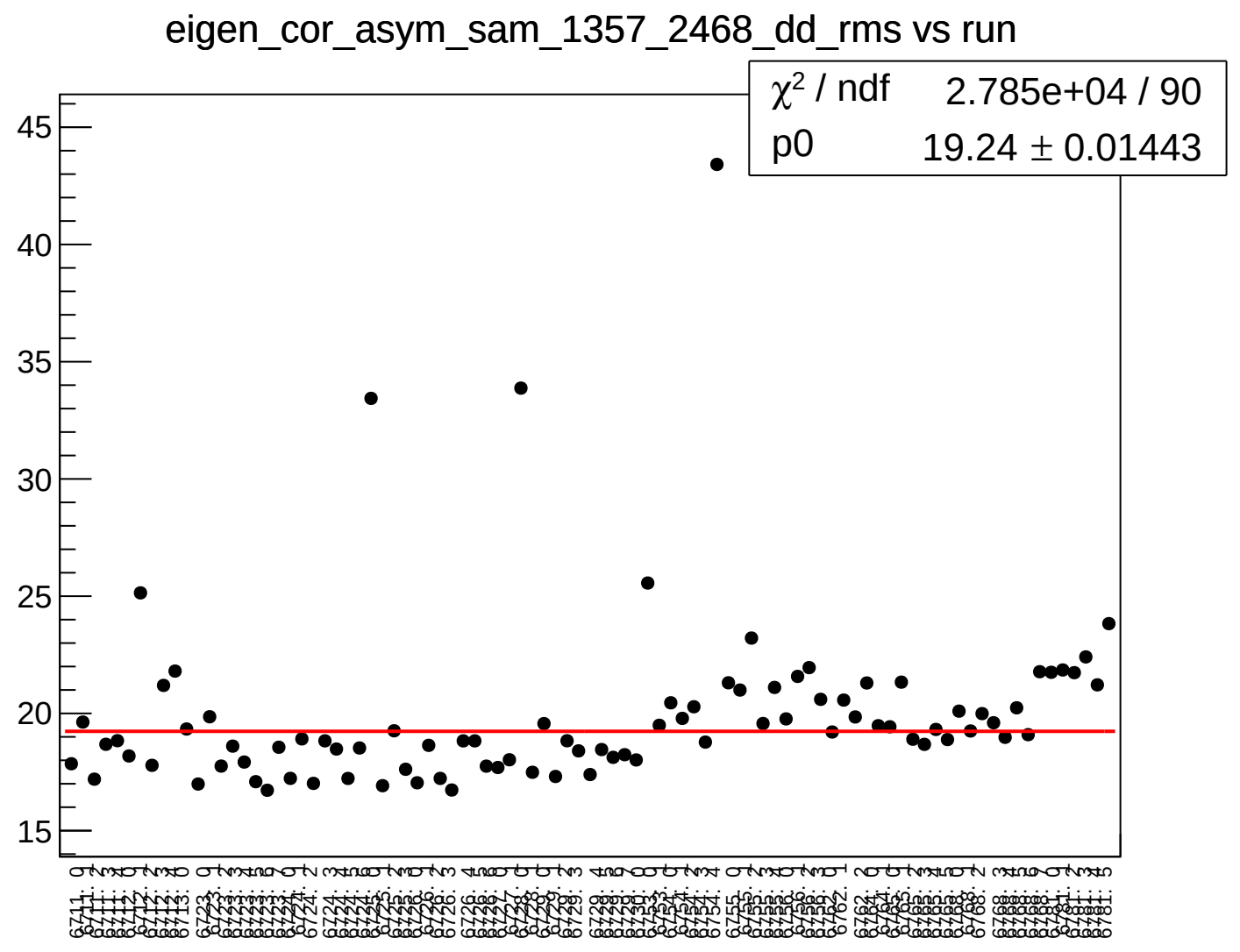

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 107.8 / 90
p0 −37.63 ± 163.9
pull
Entries 91
Mean 44.38
Std Dev 64.04

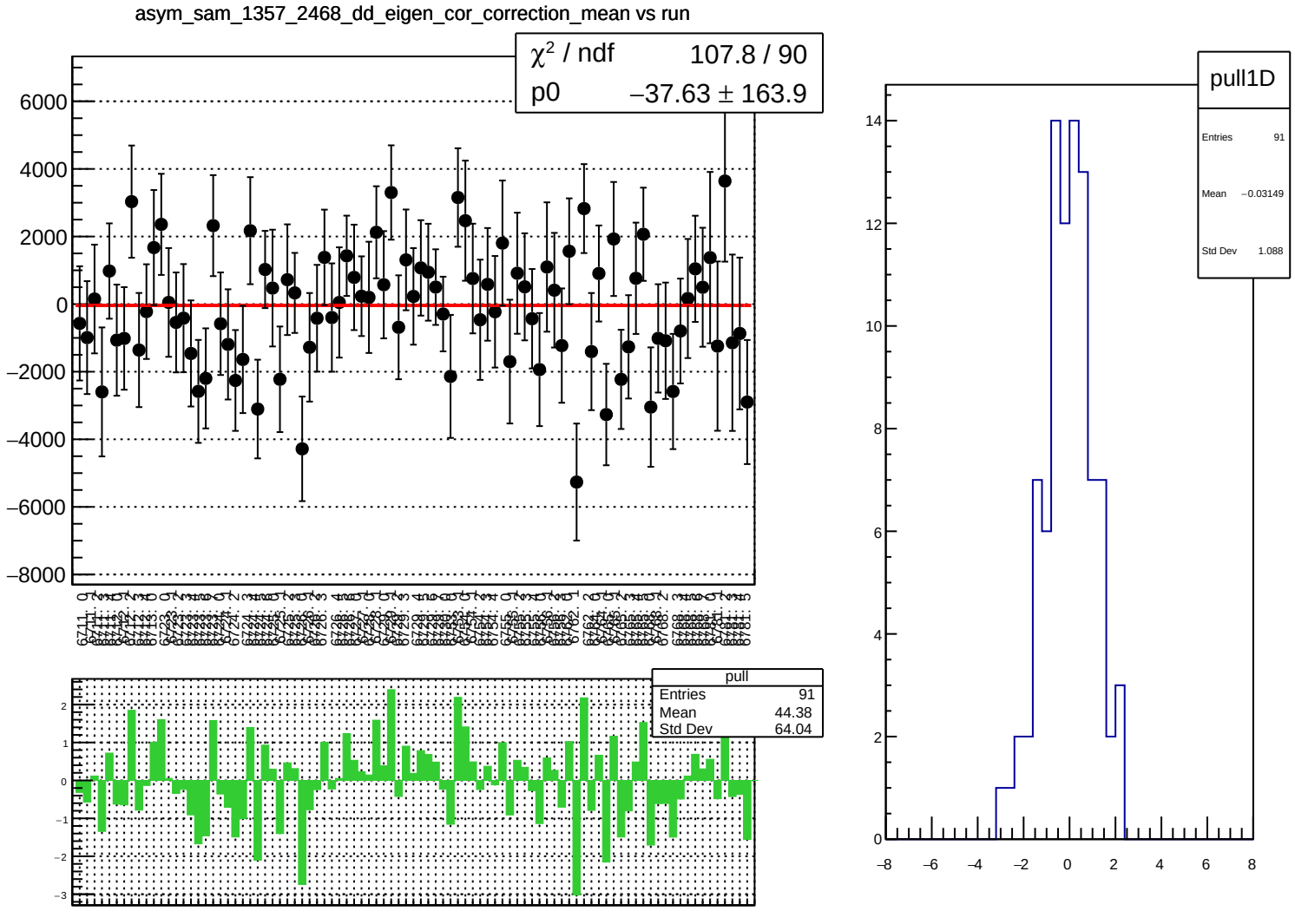

pull1D
Entries 91
Mean −0.03149
Std Dev 1.088

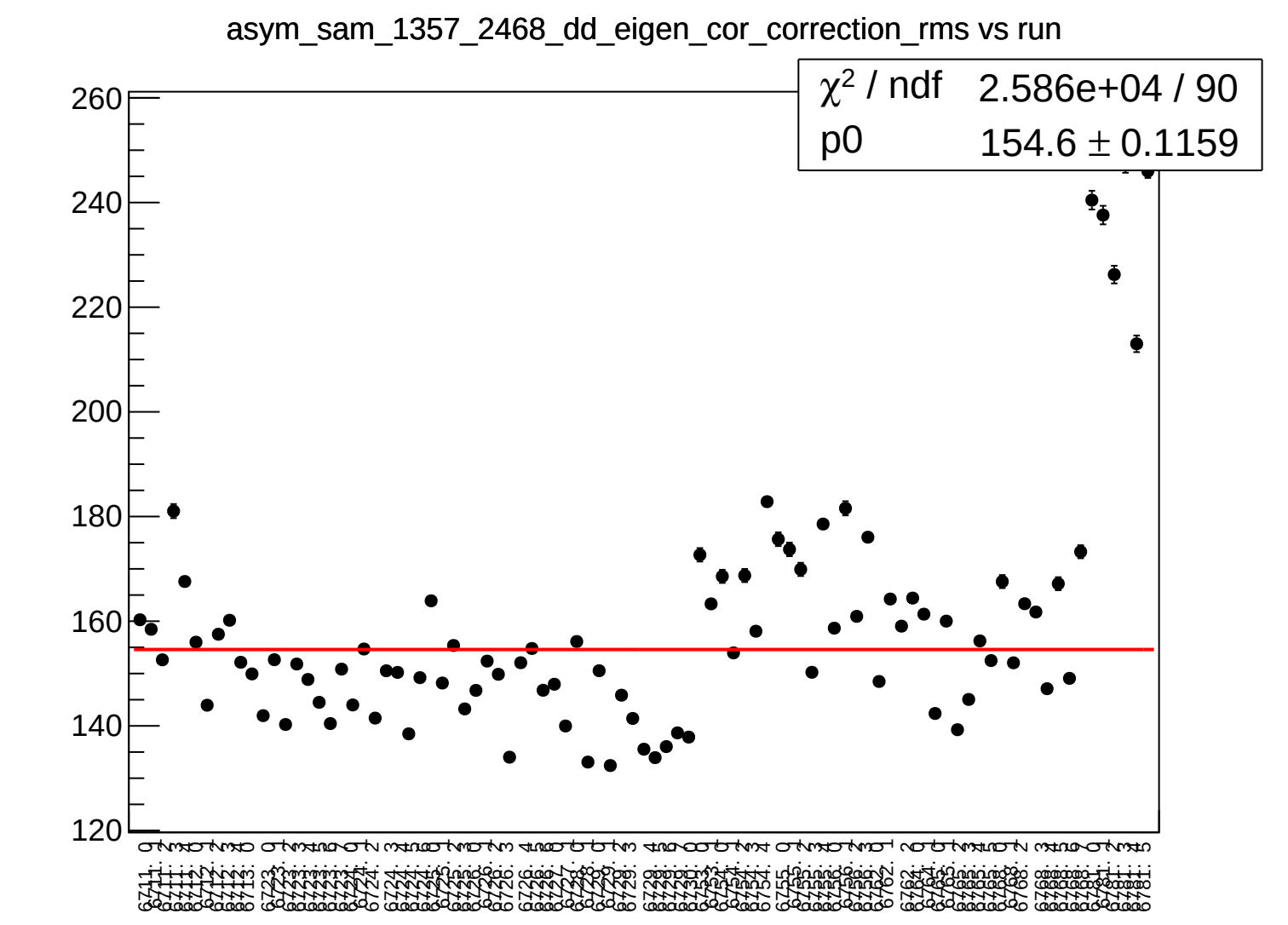

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 2.586e+04 / 90
p0 154.6 ± 0.1159
260
240
220
200
180
160
140
120

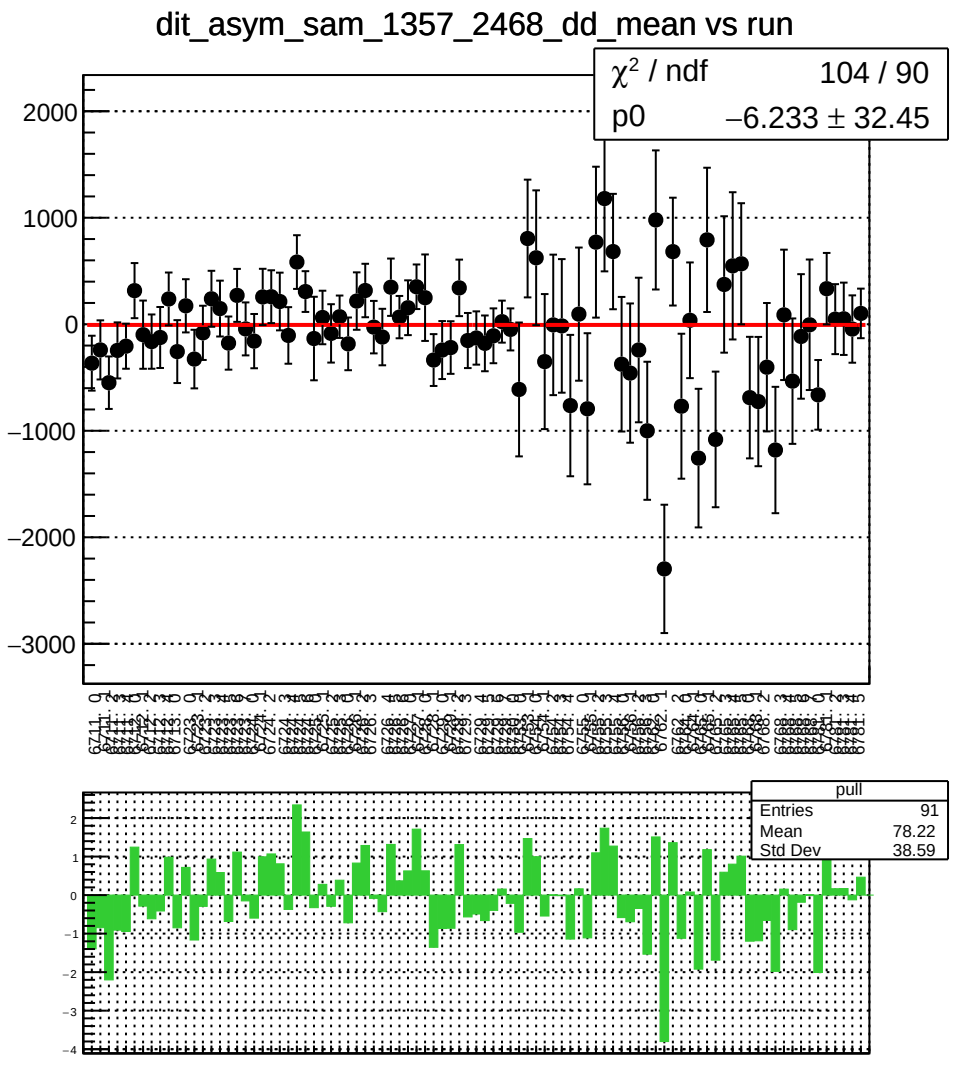

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 90.07 / 90
p0 −26.17 ± 20.41
1000
500
0
−500
−1000
pull
Entries 91
Mean 106.1
Std Dev 0
3
2
1
0
−1
−2

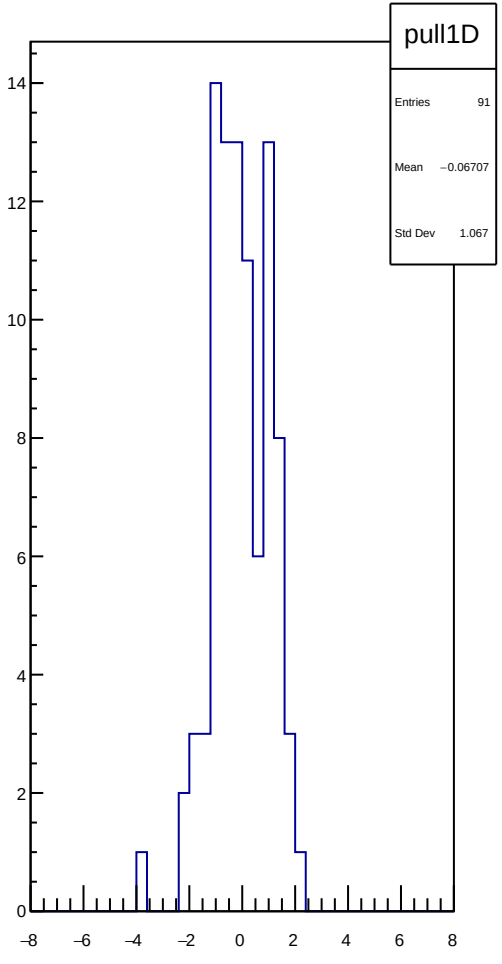

pull1D
Entries 91
Mean −0.02376
Std Dev 0.9946
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

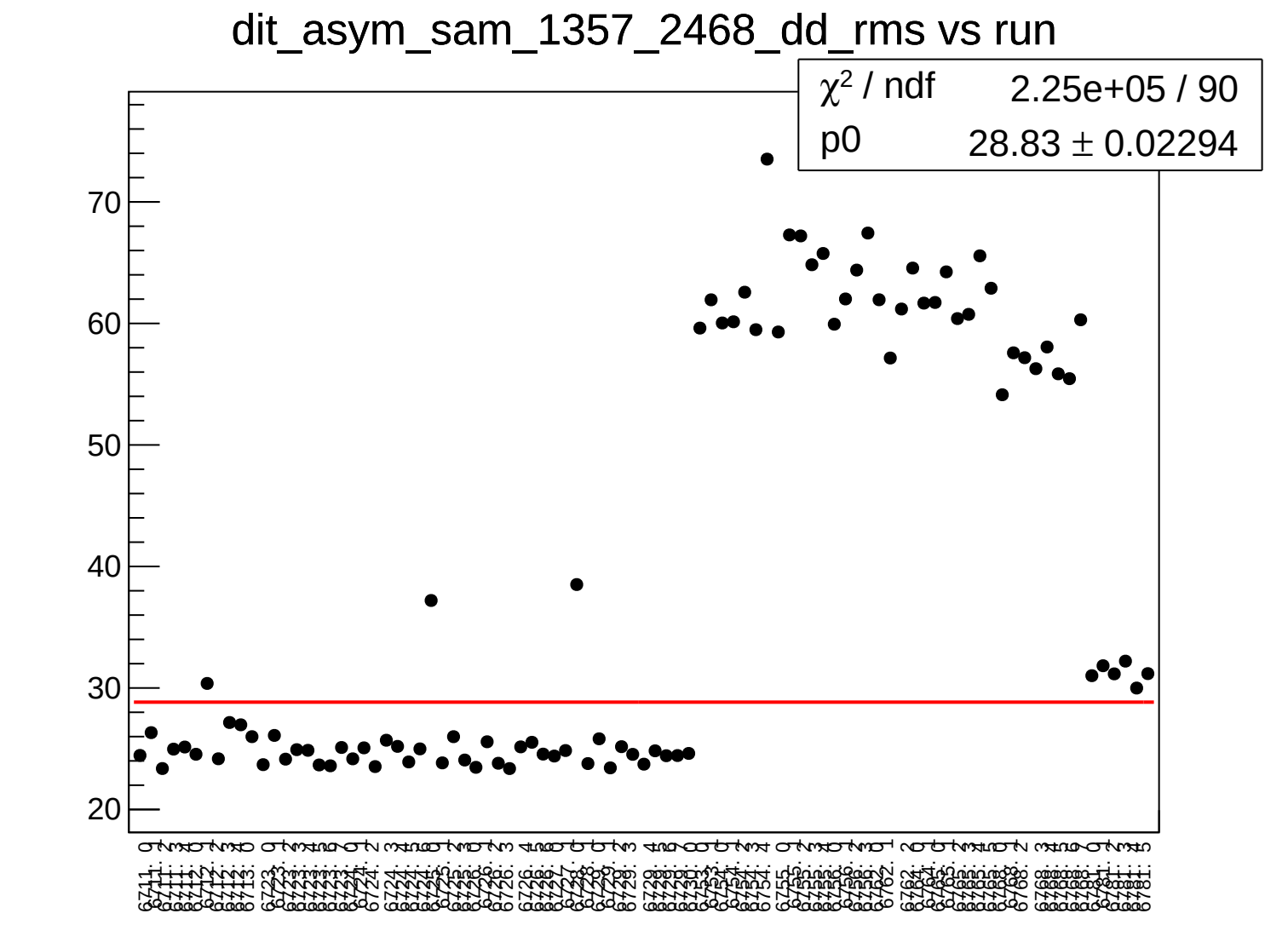

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.785e+04 / 90
p0 19.24 ± 0.01443
45
40
35
30
25
20
15

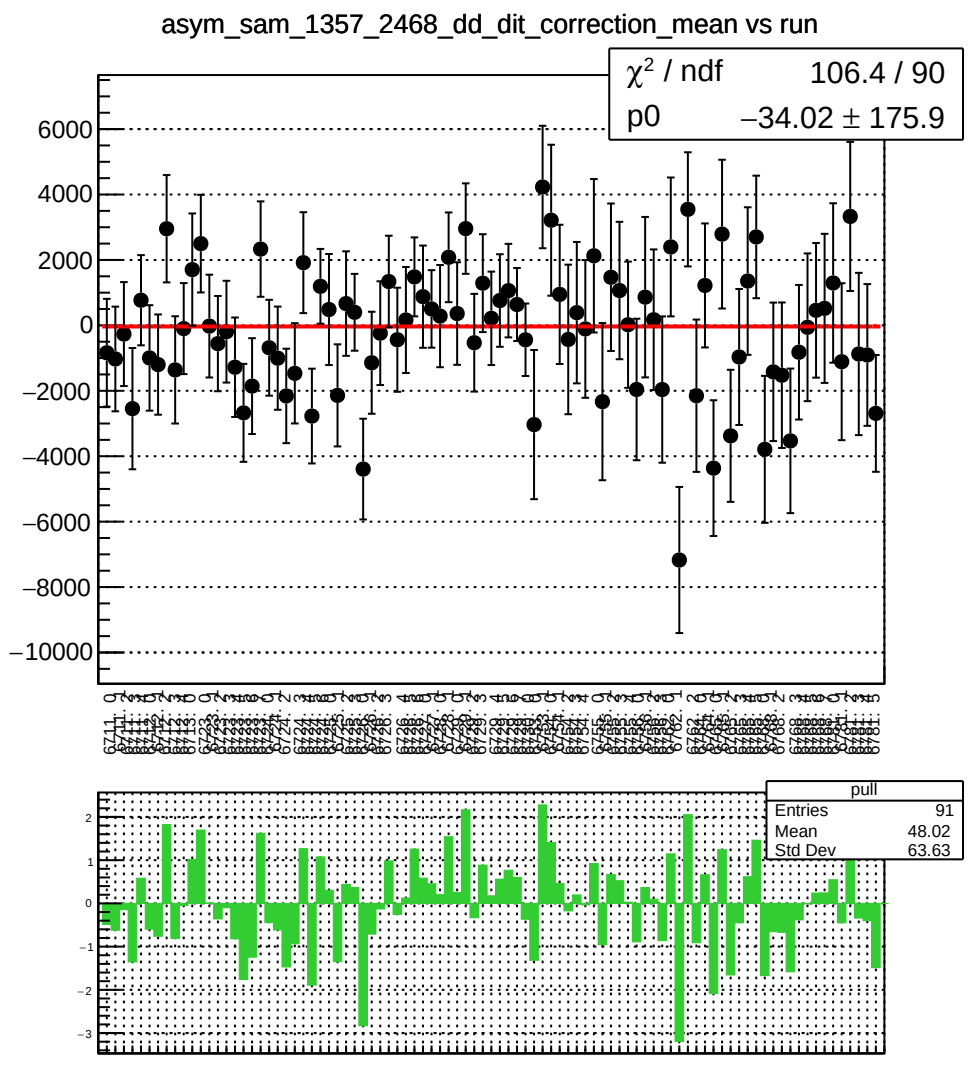

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 107.8 / 90
p0 −37.63 ± 163.9
pull
Entries 91
Mean 44.38
Std Dev 64.04
pull1D
Entries 91
Mean −0.03149
Std Dev 1.088

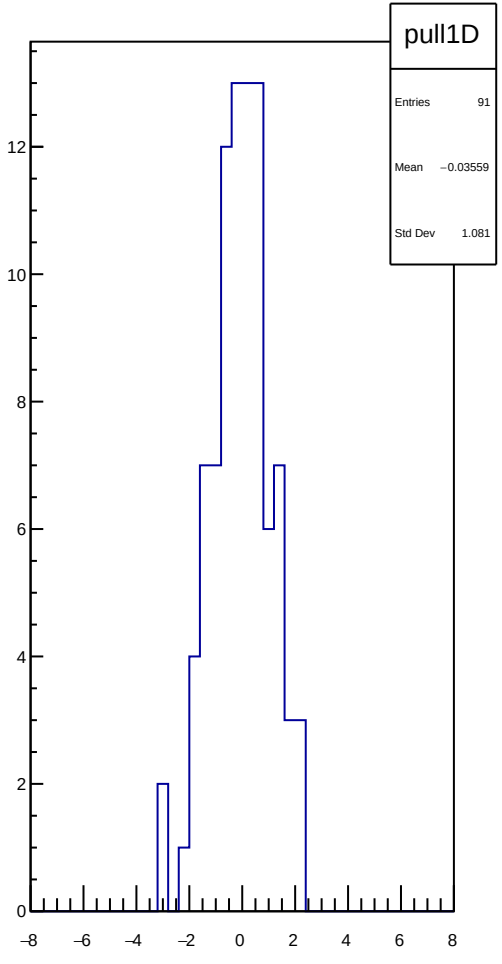

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.586e+04 / 90
p0 154.6 ± 0.1159
260
240
220
200
180
160
140
120

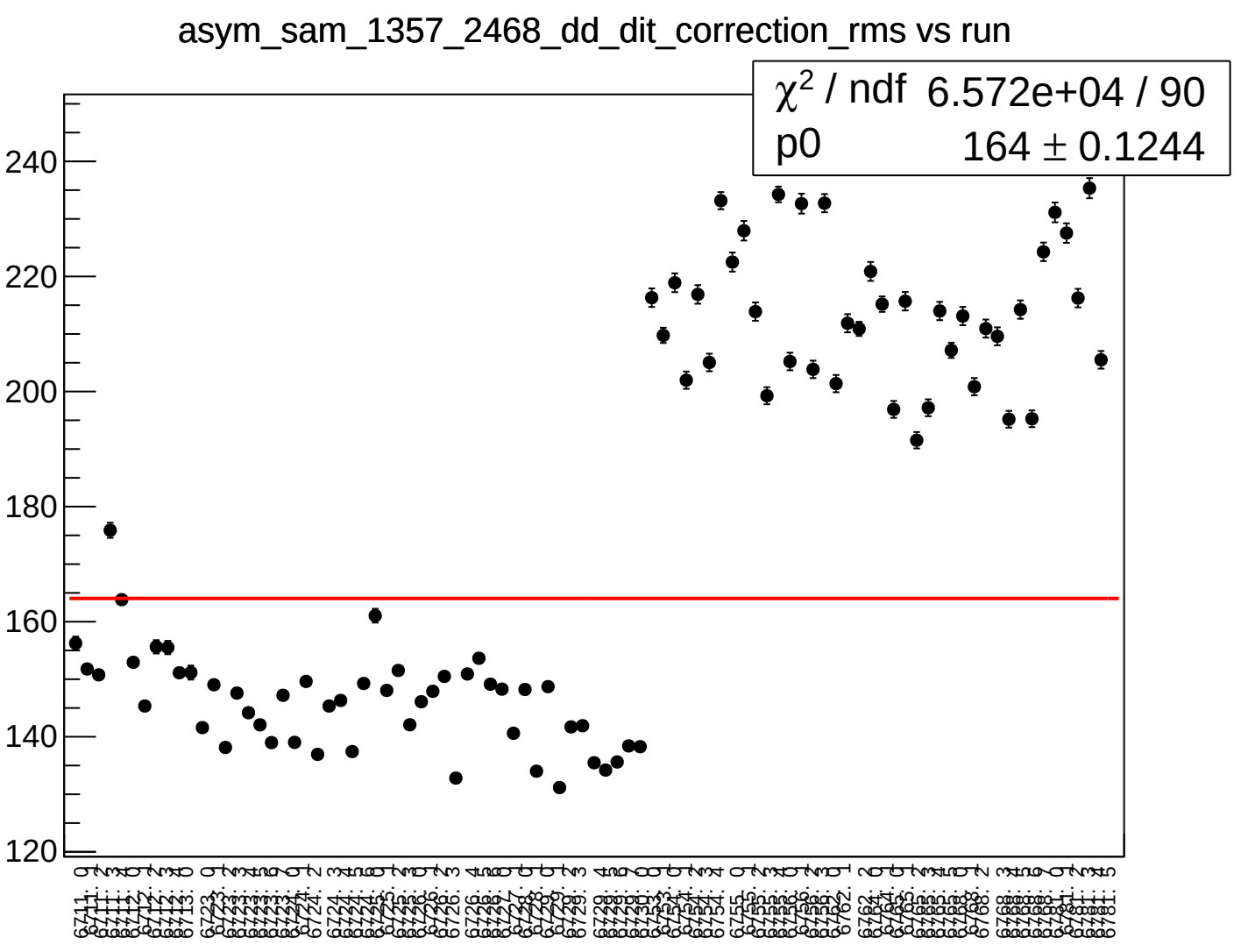

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 104 / 90
p0 −6.233 ± 32.45
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 78.22
Std Dev 38.59
2
1
0
−1
−2
−3
−4

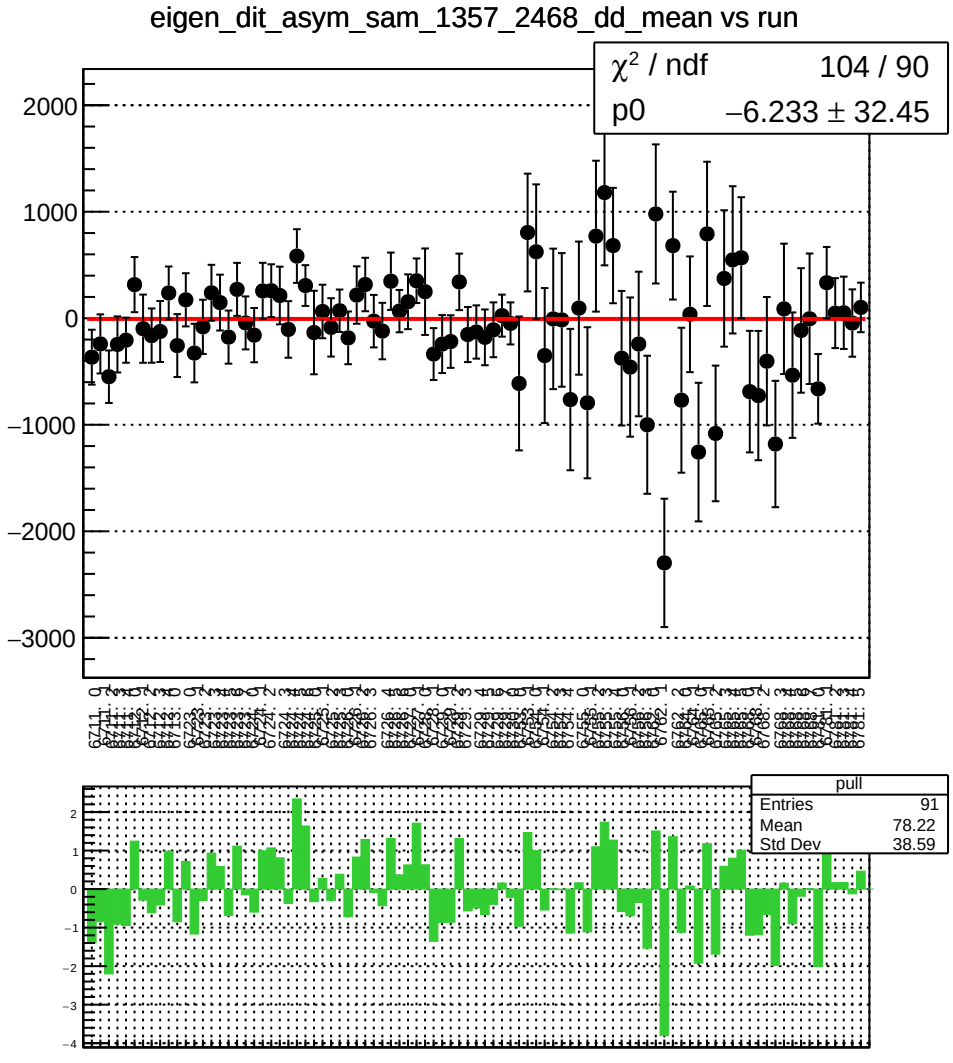

pull1D
Entries 91
Mean −0.06707
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

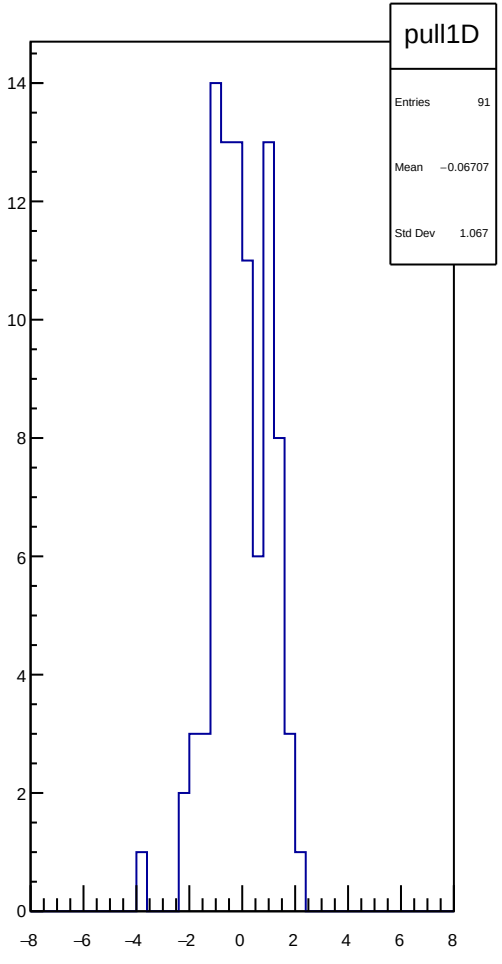

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.25e+05 / 90
p0 28.83 ± 0.02294
70
60
50
40
30
20

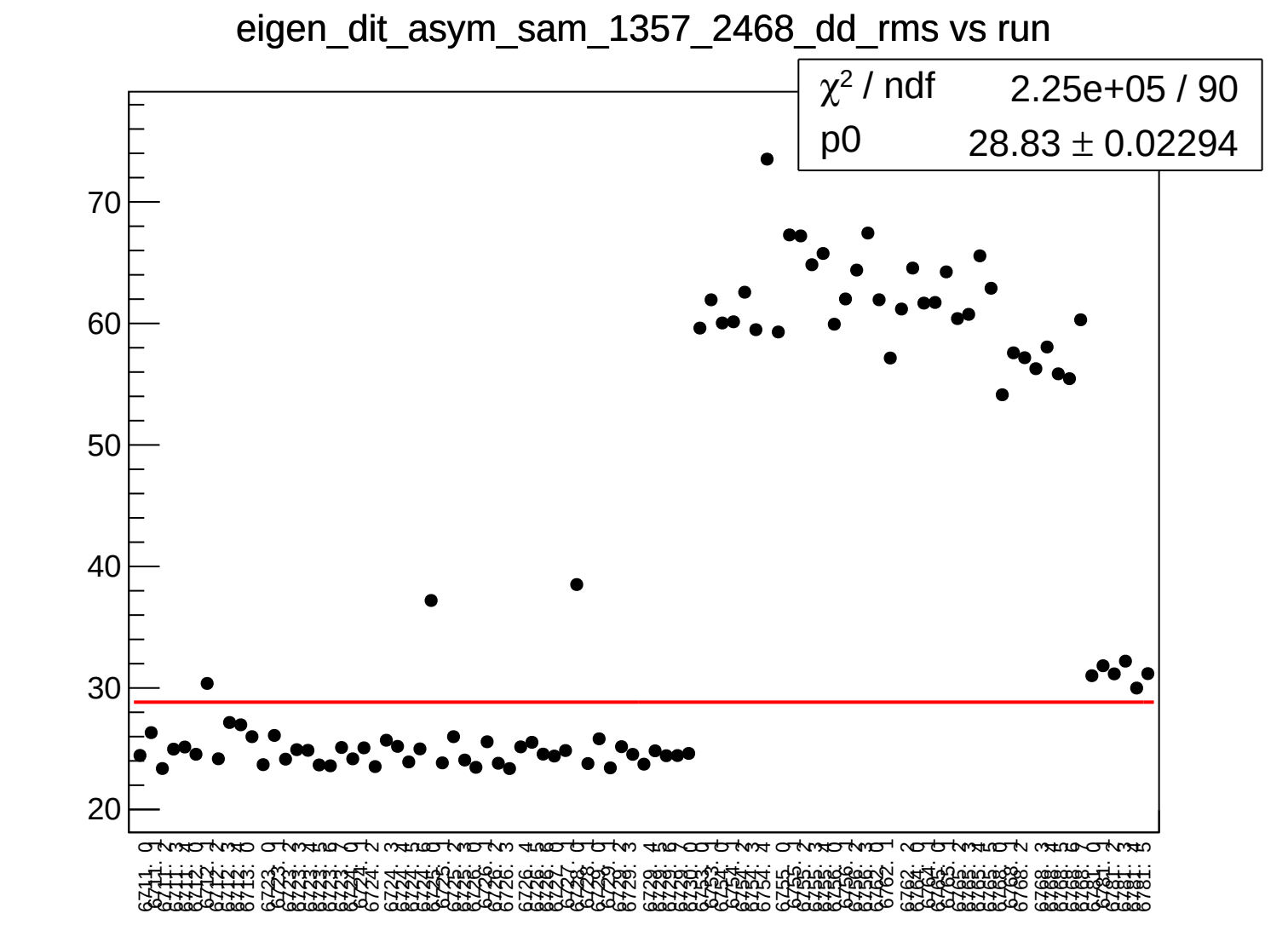

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 106.4 / 90
p0 −34.02 ± 175.9
pull
Entries 91
Mean 48.02
Std Dev 63.63

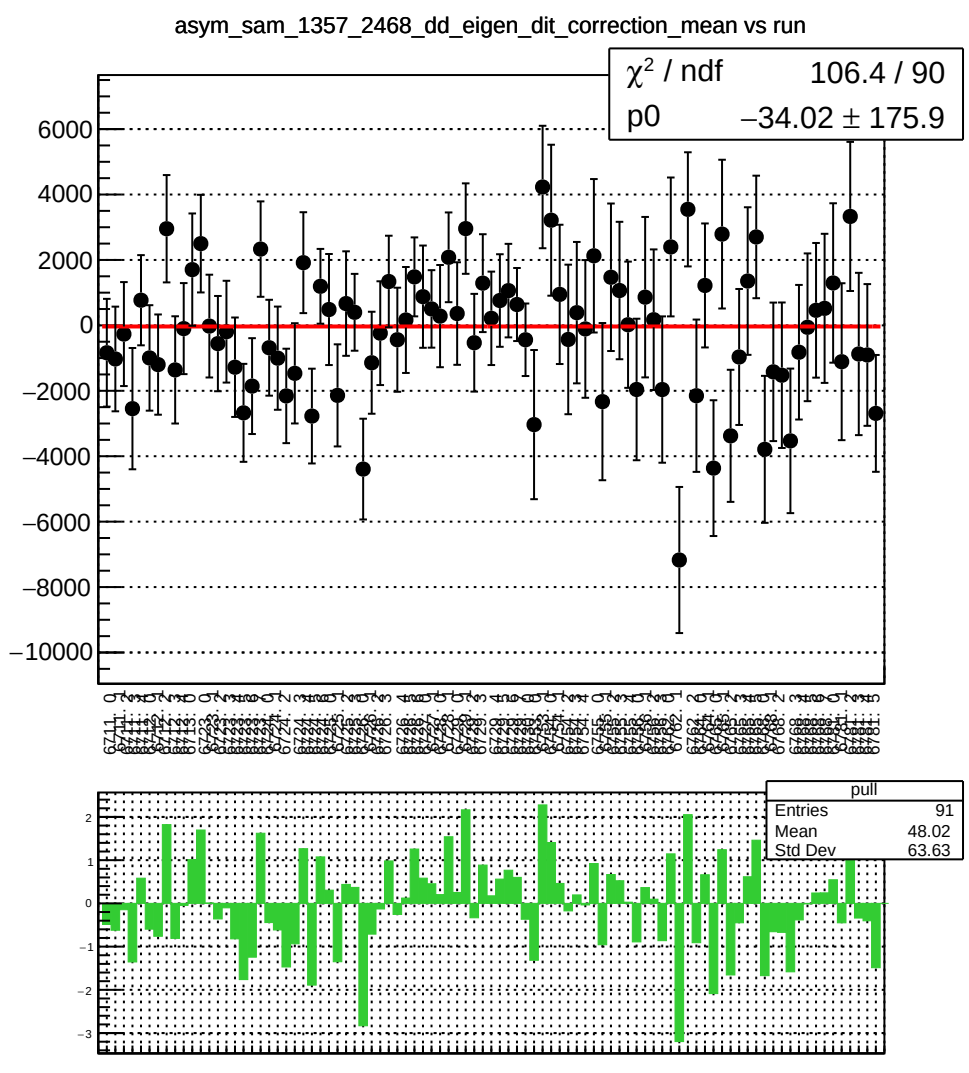

pull1D
Entries 91
Mean −0.03559
Std Dev 1.081

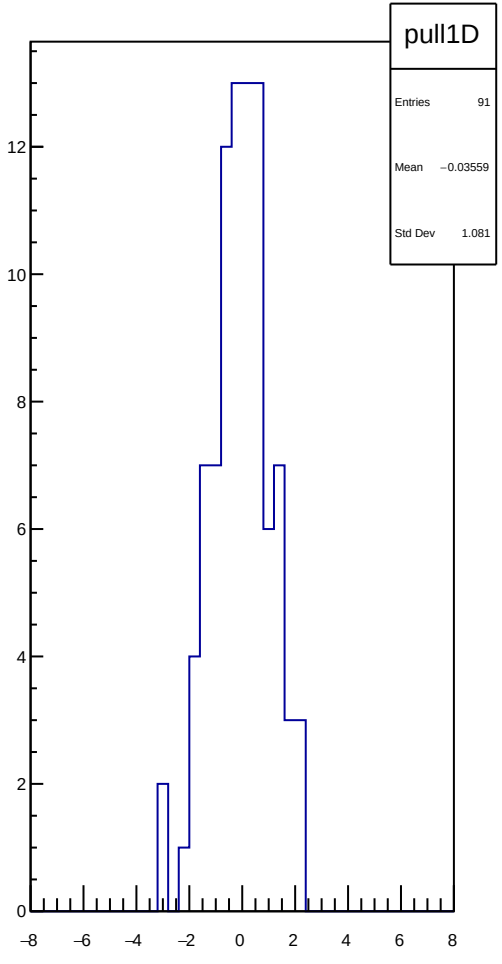

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 6.572e+04 / 90
p0 164 ± 0.1244
240
220
200
180
160
140
120

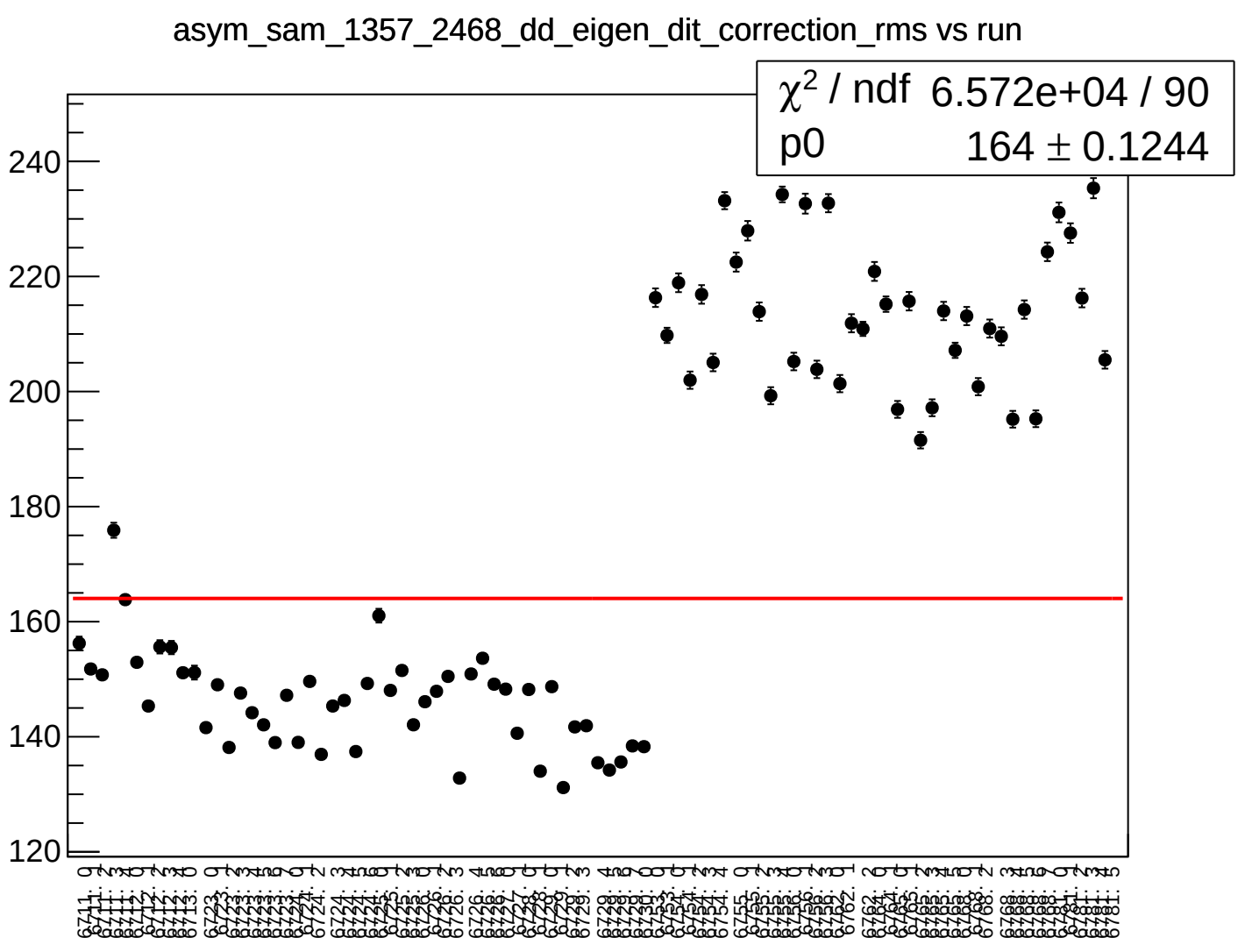

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 104 / 90
p0 −6.233 ± 32.45
2000
1000
0
−1000
−2000
−3000
pull
Entries 91
Mean 78.22
Std Dev 38.59
2
1
0
−1
−2
−3
−4

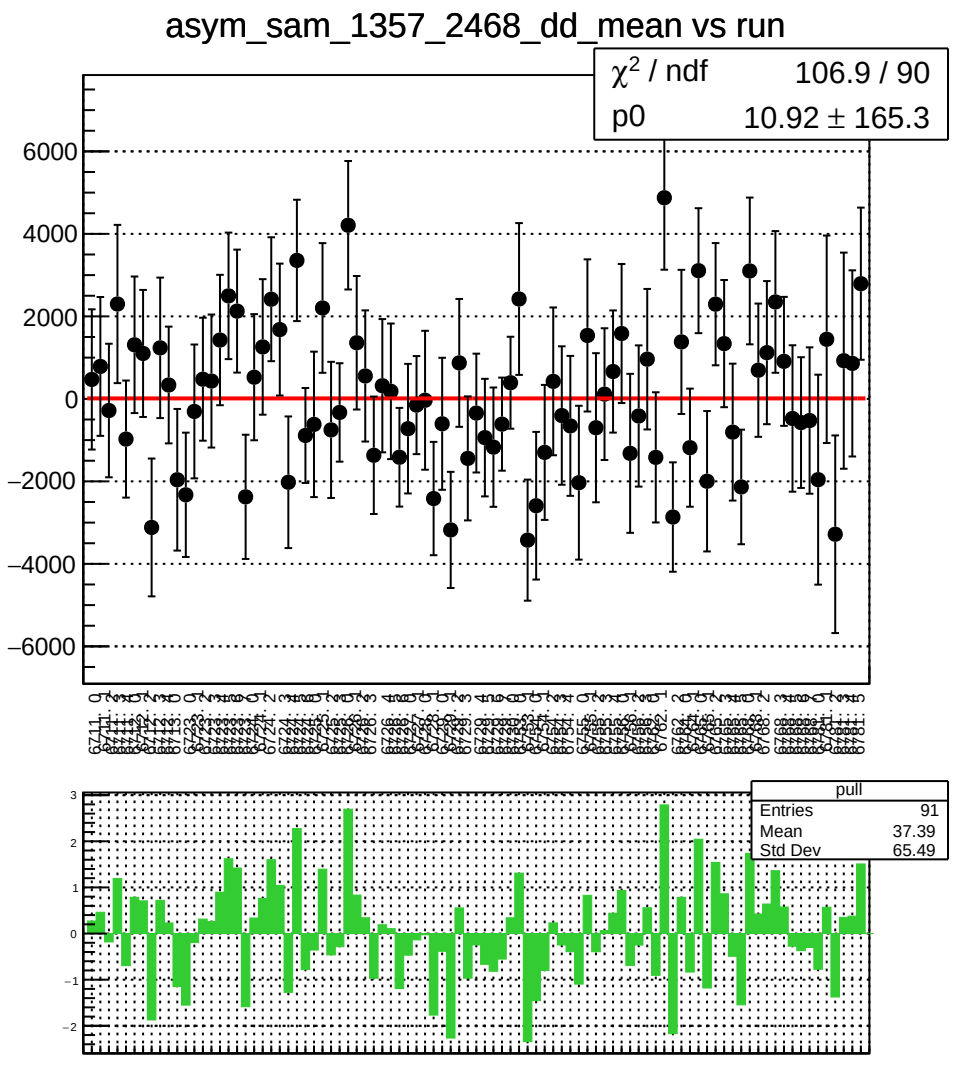

pull1D
Entries 91
Mean −0.06707
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

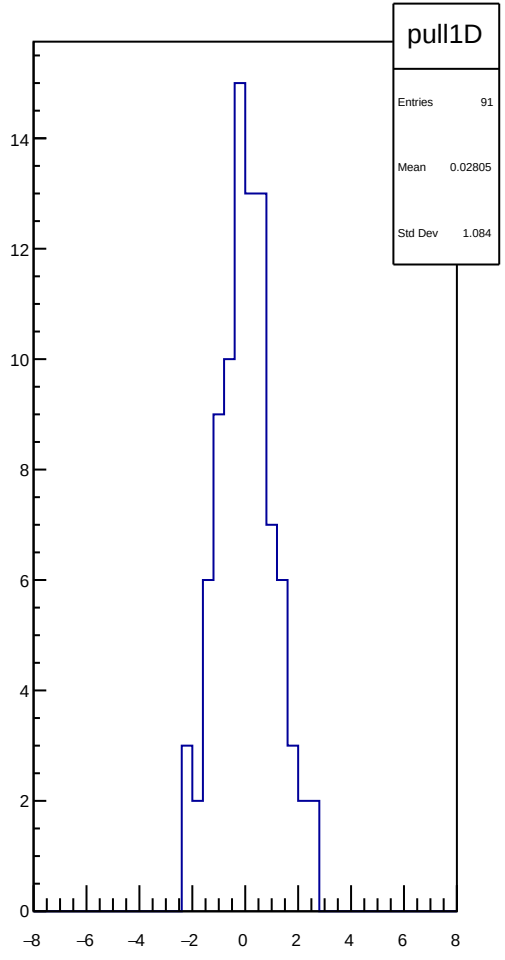

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.25e+05 / 90
p0 28.83 ± 0.02294
70
60
50
40
30
20

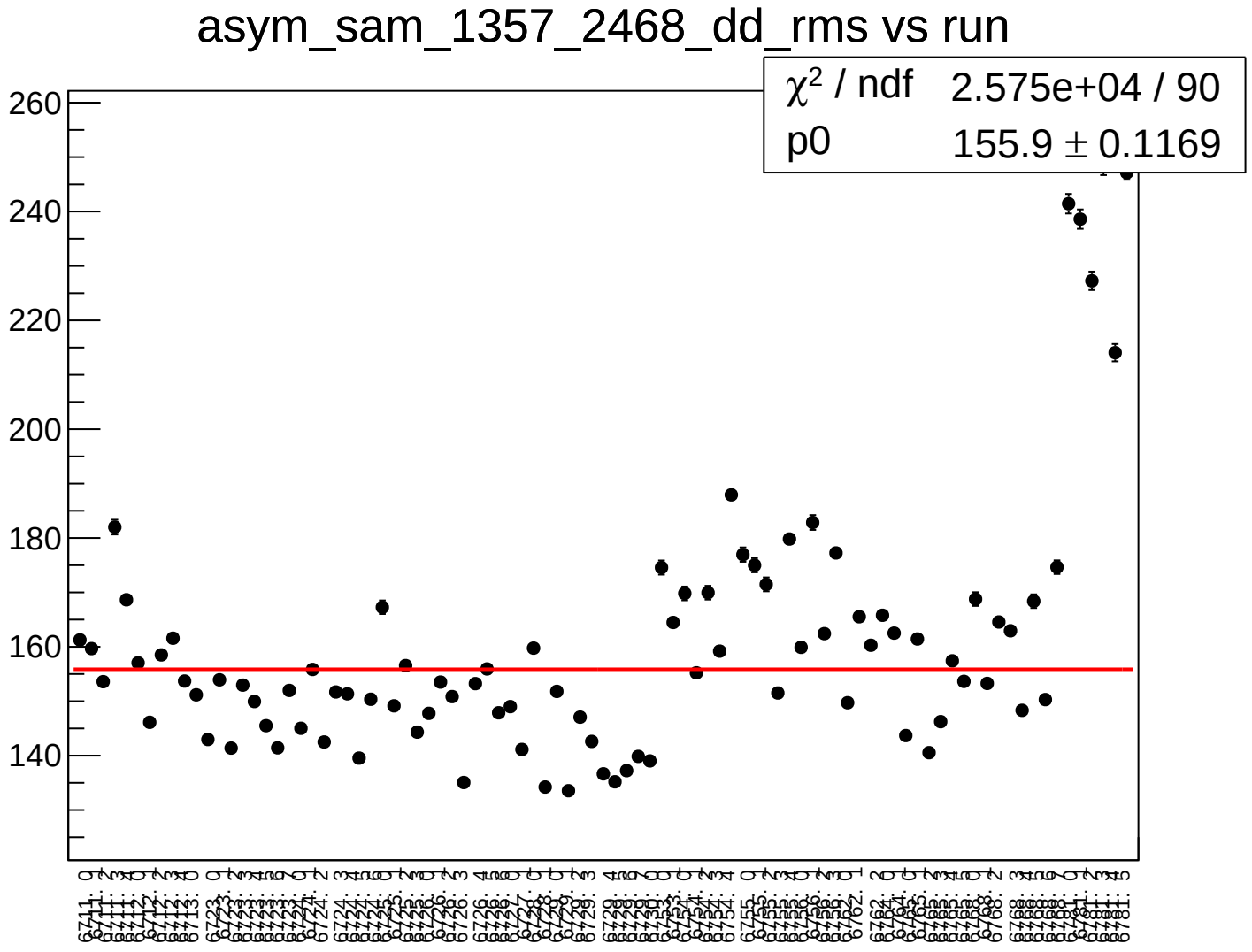

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 106.4 / 90
p0 −34.02 ± 175.9
pull
Entries 91
Mean 48.02
Std Dev 63.63

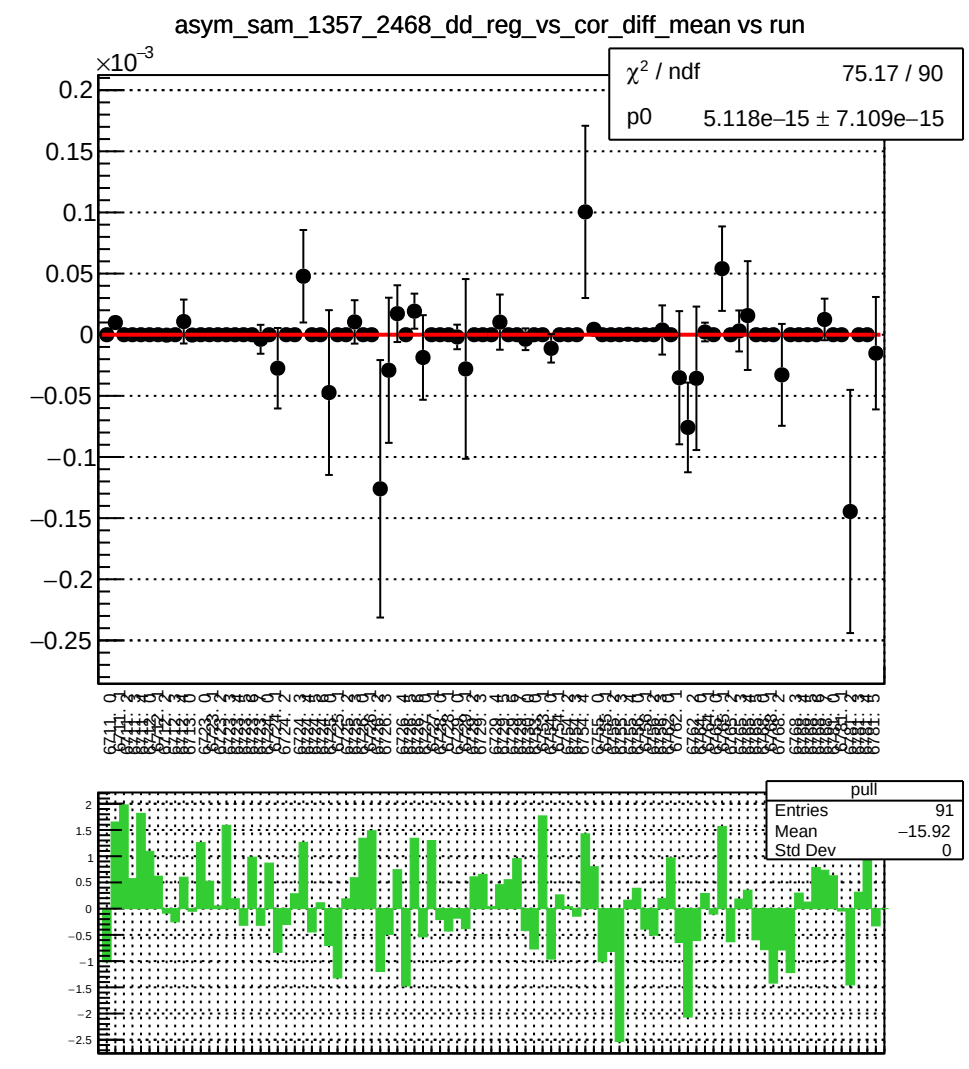

pull1D
Entries 91
Mean −0.03559
Std Dev 1.081

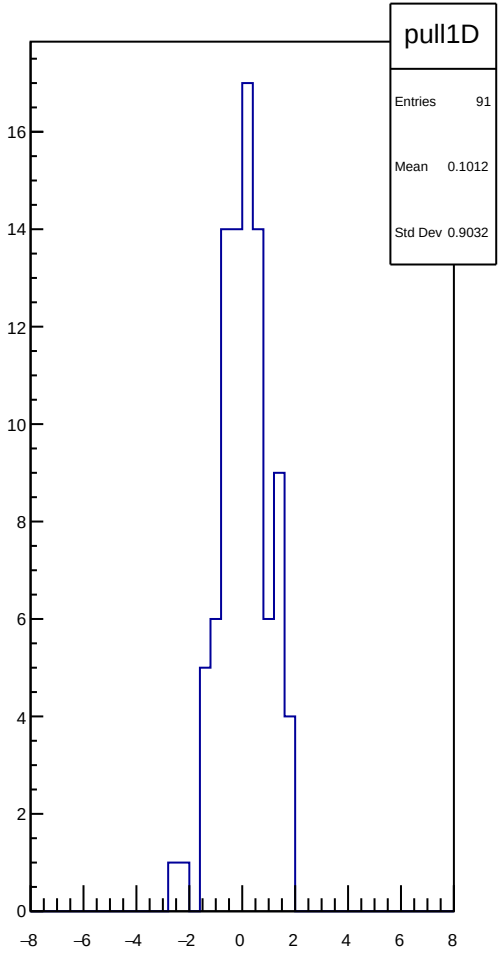

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 6.572e+04 / 90
p0 164 ± 0.1244
240
220
200
180
160
140
120

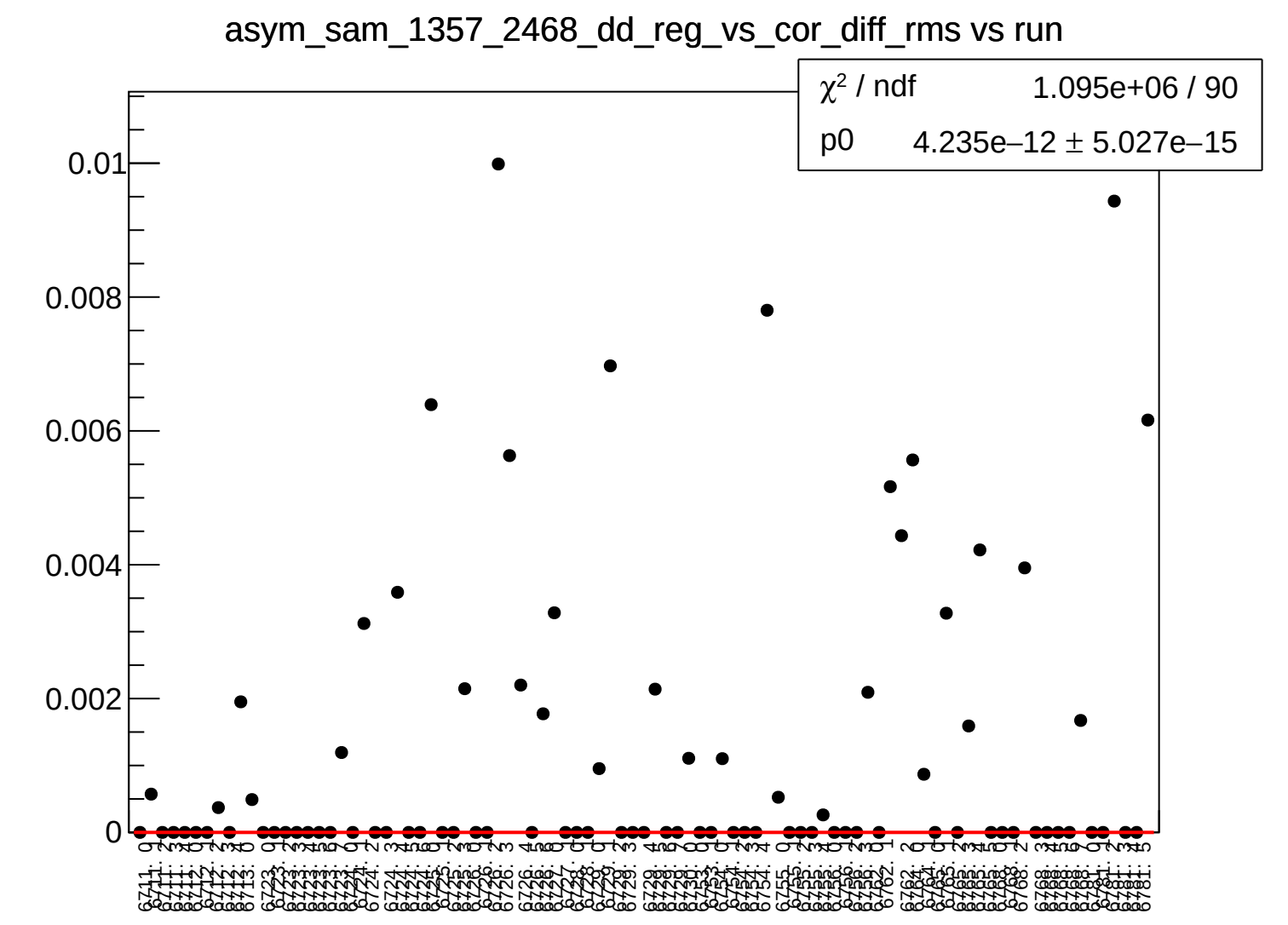

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 106.9 / 90
p0 10.92 ± 165.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 37.39
Std Dev 65.49
3
2
1
0
−1
−2

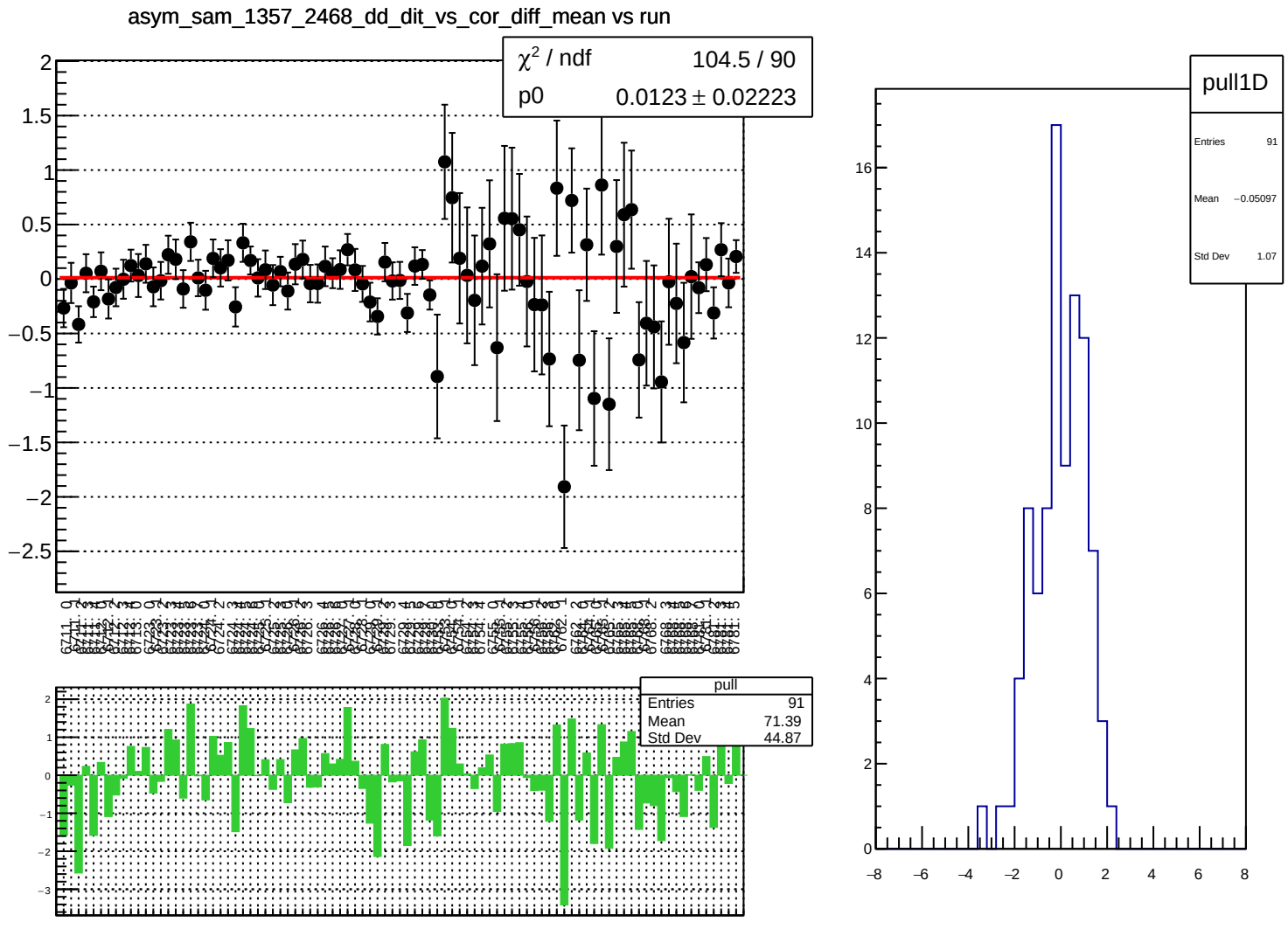

pull1D
Entries 91
Mean 0.02805
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

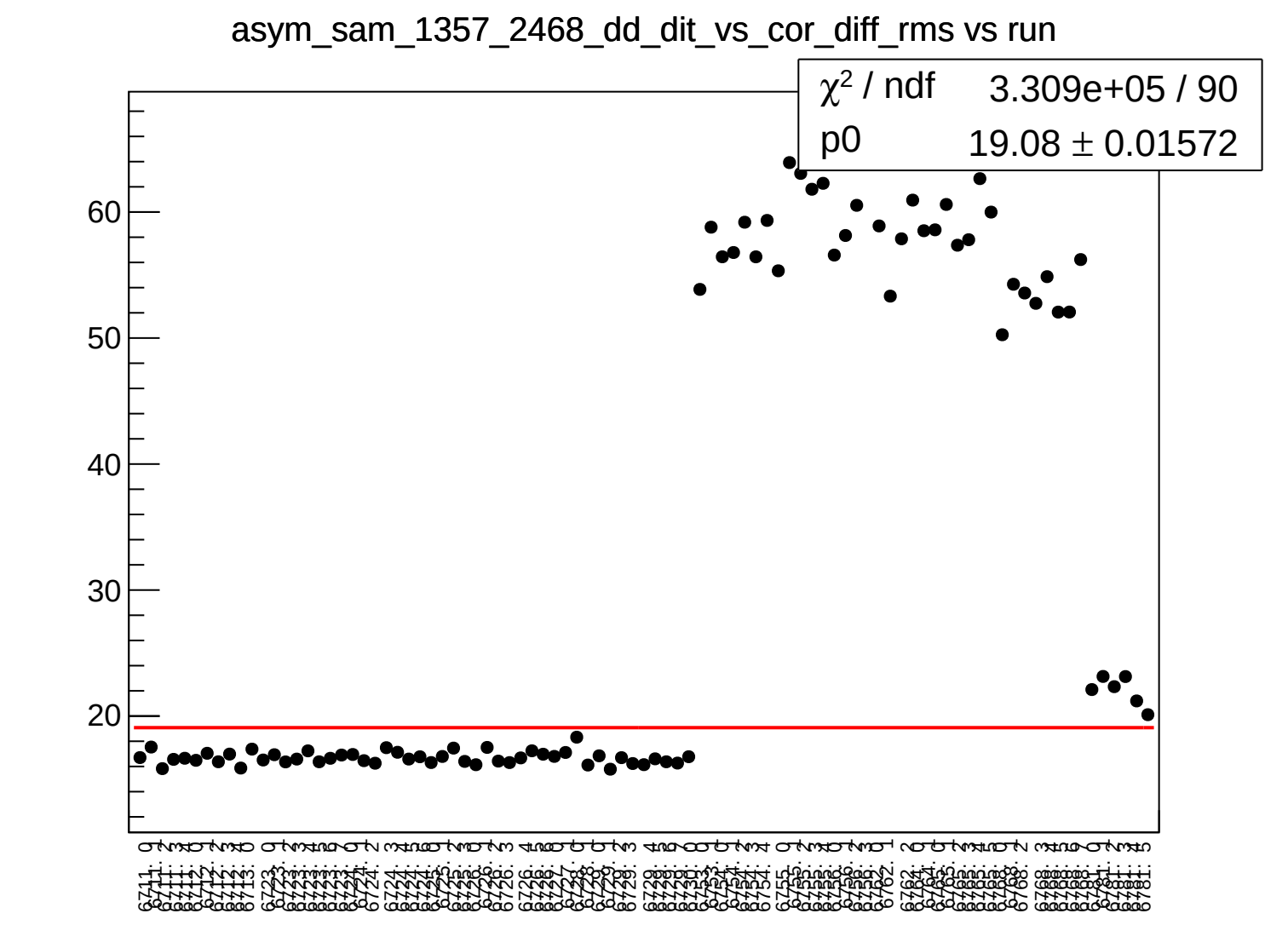

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.575e+04 / 90
p0 155.9 ± 0.1169
260
240
220
200
180
160
140

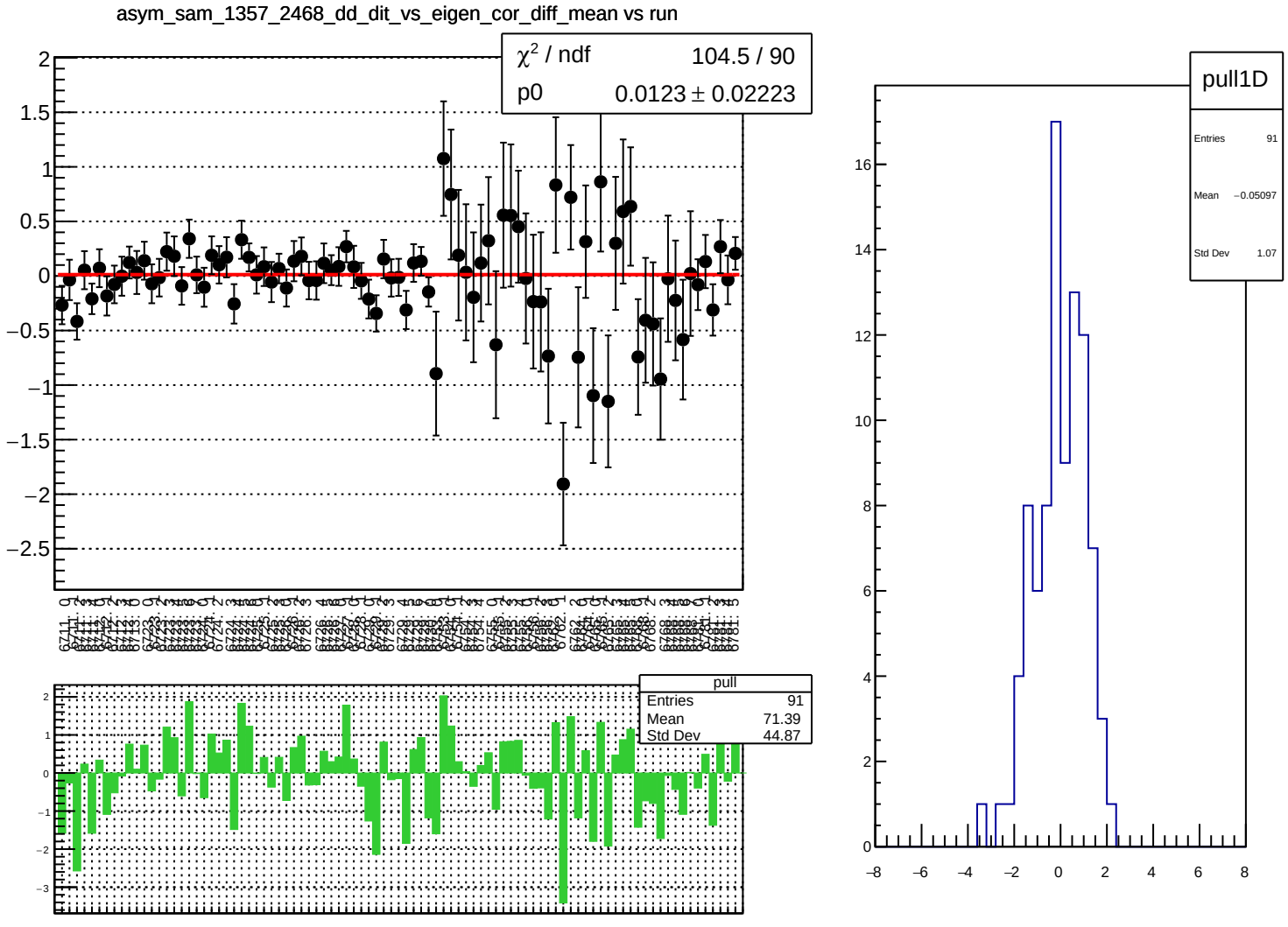

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 75.17 / 90
p0 5.118e−15 ± 7.109e−15
pull
Entries 91
Mean −15.92
Std Dev 0

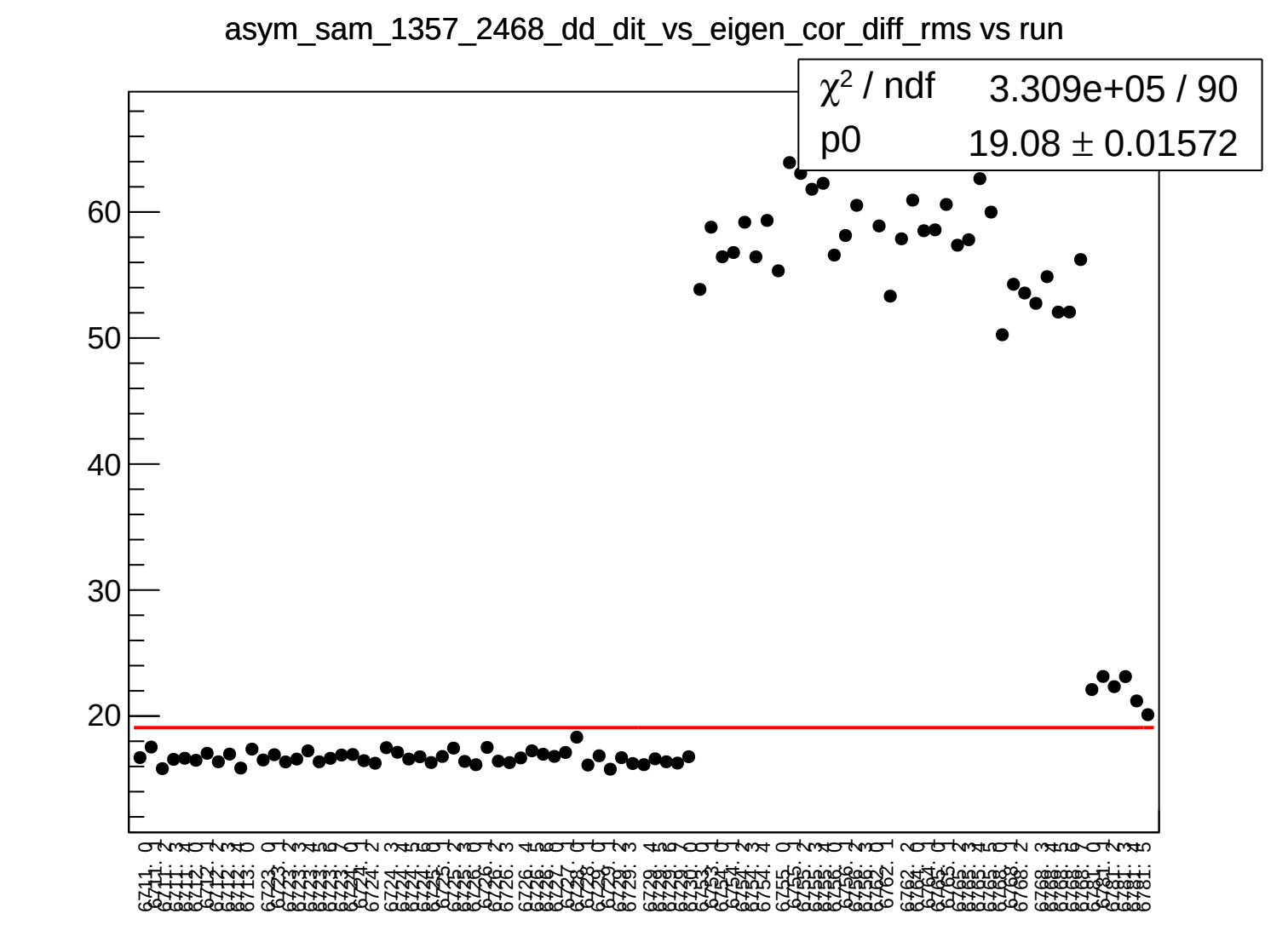

pull1D
Entries 91
Mean 0.1012
Std Dev 0.9032

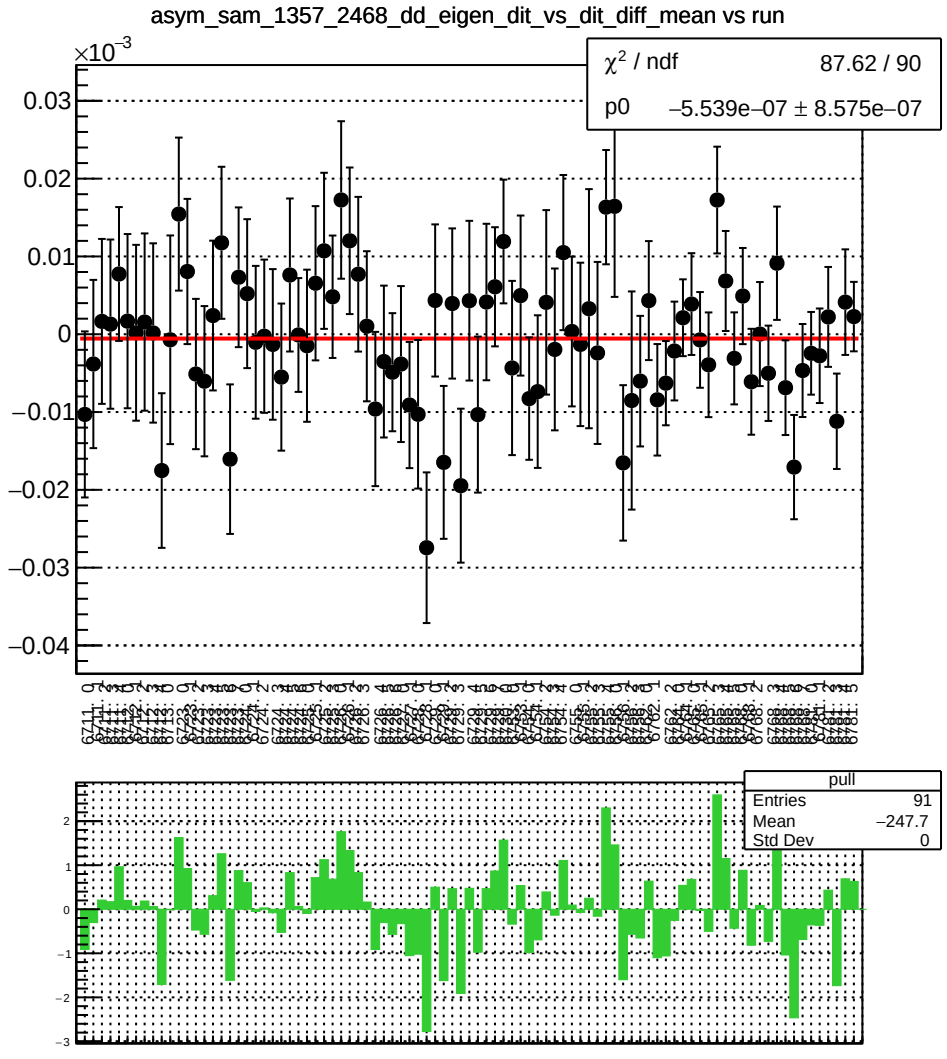

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.095e+06 / 90
p0 4.235e−12 ± 5.027e−15
0.01
0.008
0.006
0.004
0.002
0

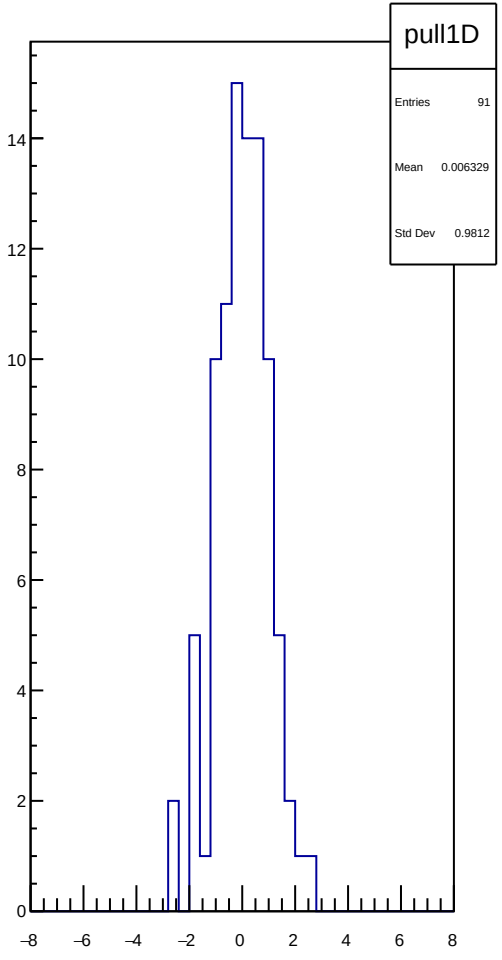

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.5 / 90
p0 0.0123 ± 0.02223
pull
Entries 91
Mean 71.39
Std Dev 44.87
pull1D
Entries 91
Mean −0.05097
Std Dev 1.07

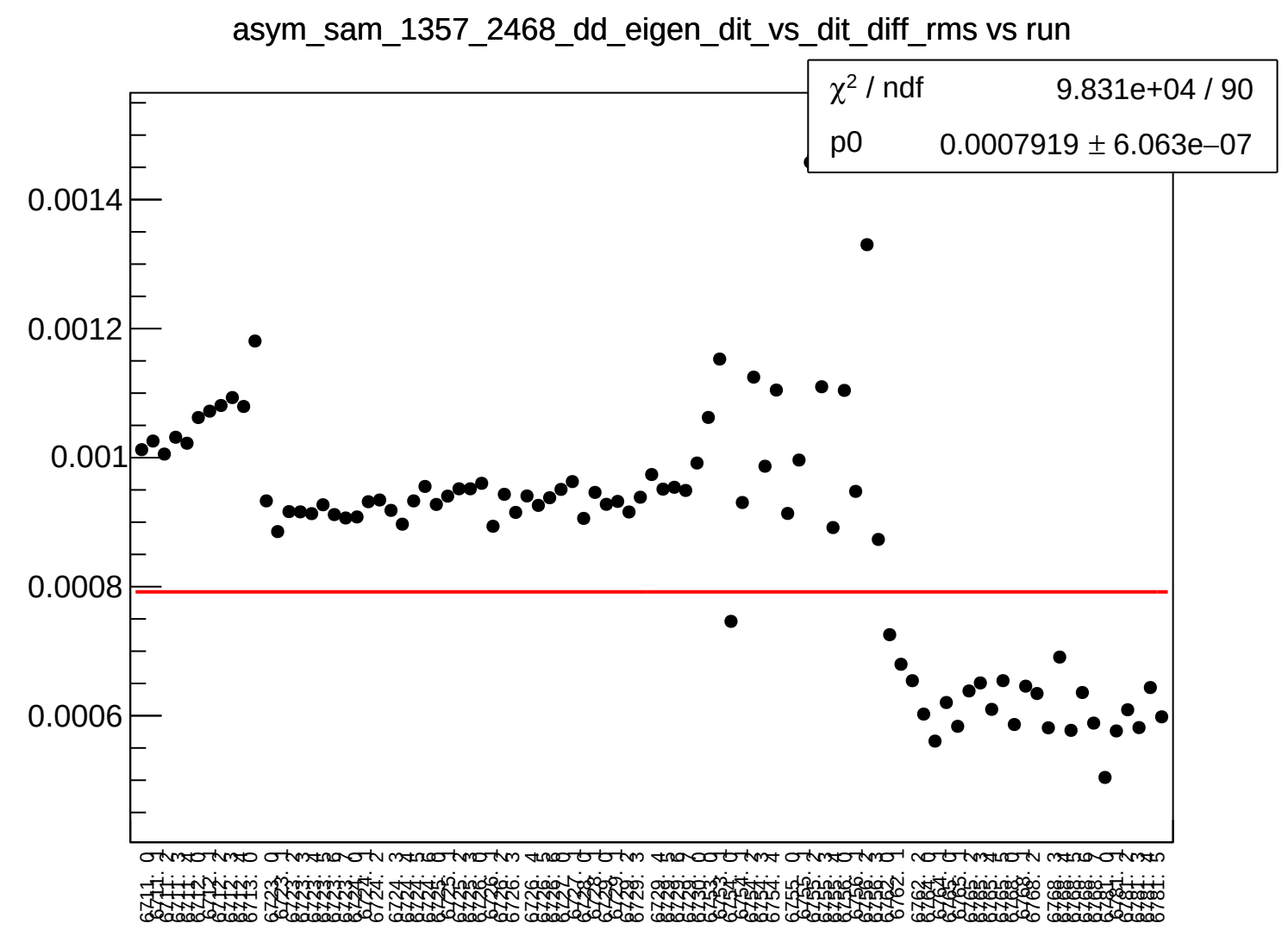

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.309e+05 / 90
p0 19.08 ± 0.01572
60
50
40
30
20

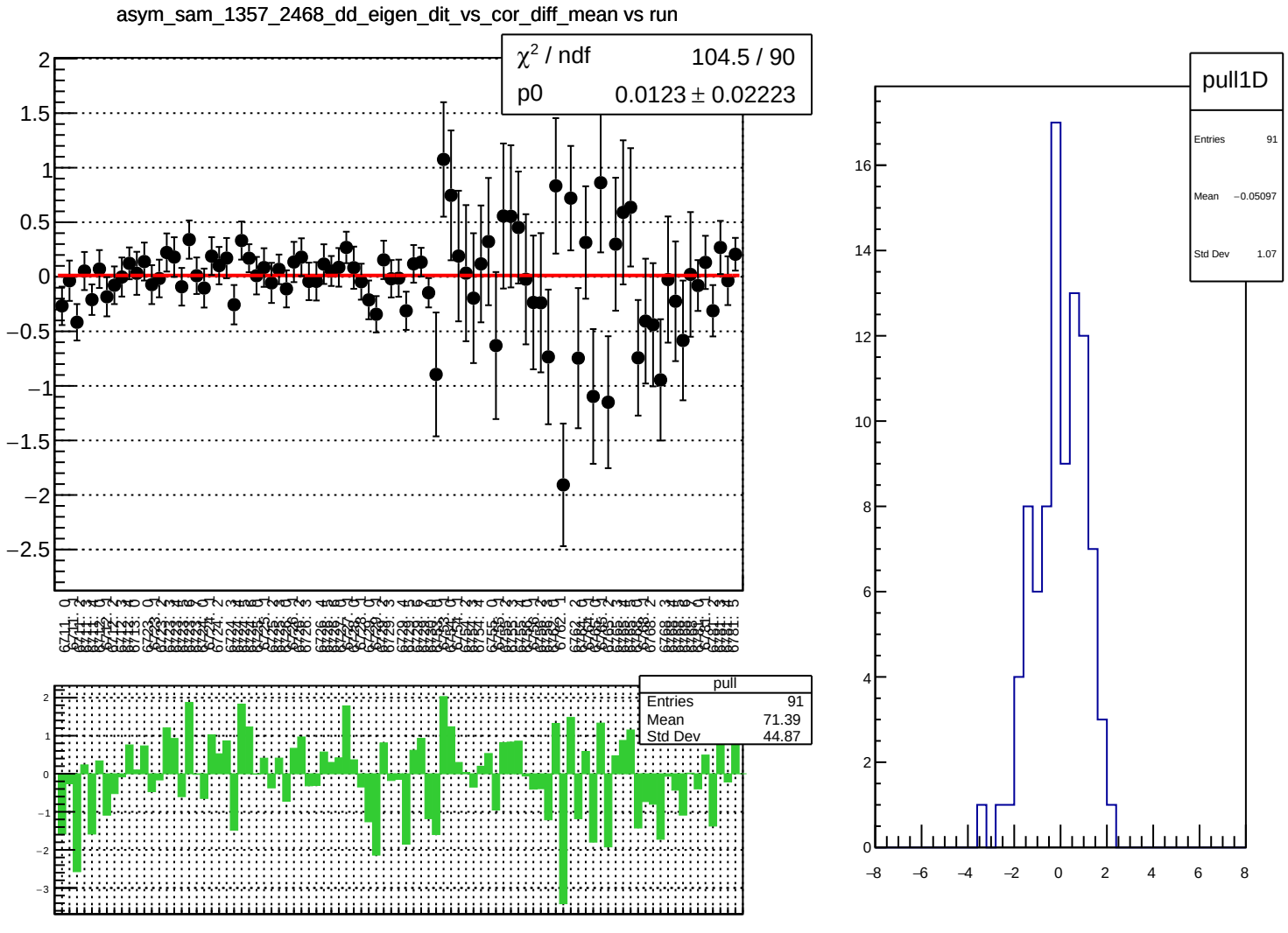

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.5 / 90
p0 0.0123 ± 0.02223
pull
Entries 91
Mean 71.39
Std Dev 44.87
pull1D
Entries 91
Mean −0.05097
Std Dev 1.07

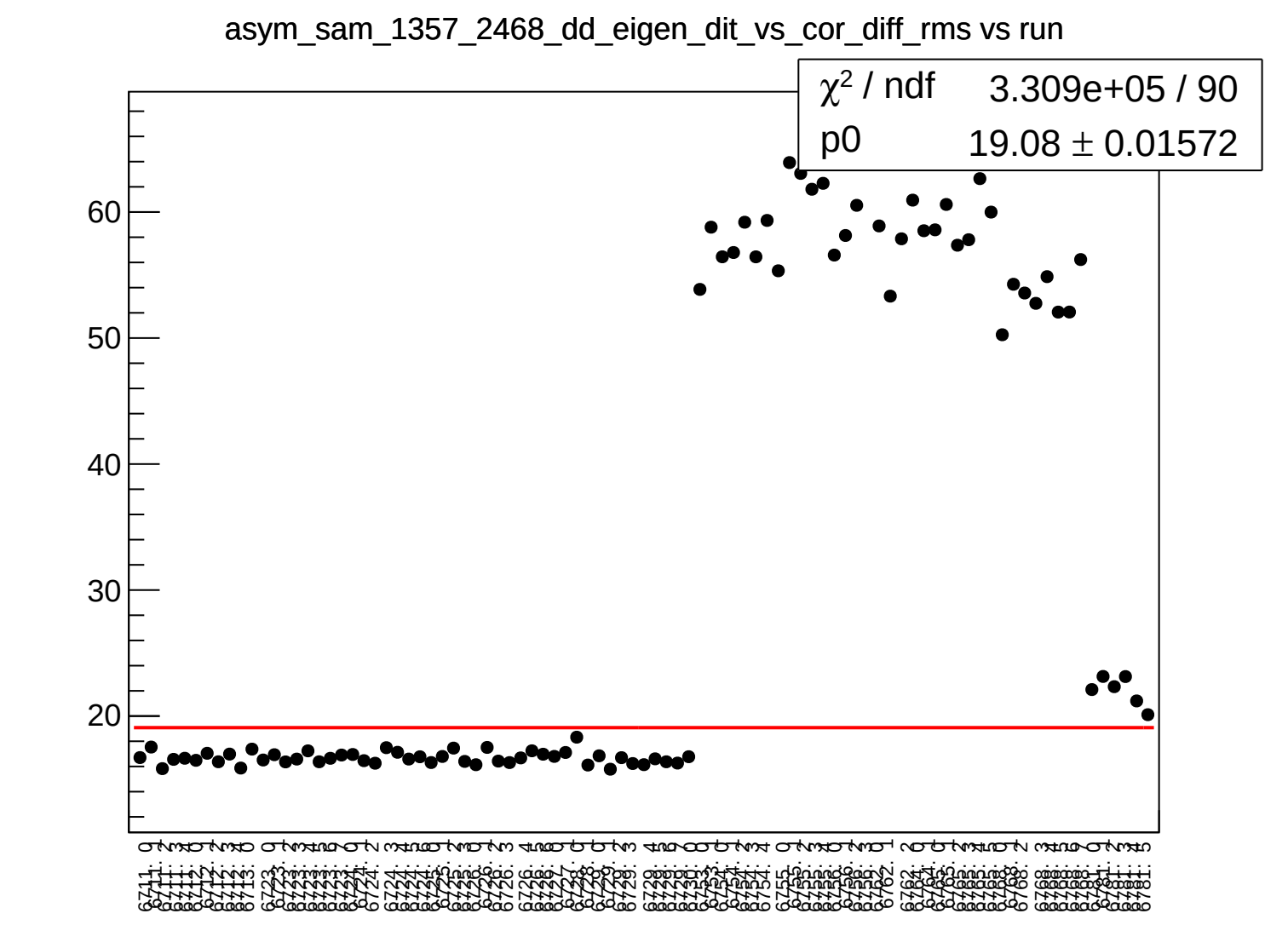

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.309e+05 / 90
p0 19.08 ± 0.01572
60
50
40
30
20

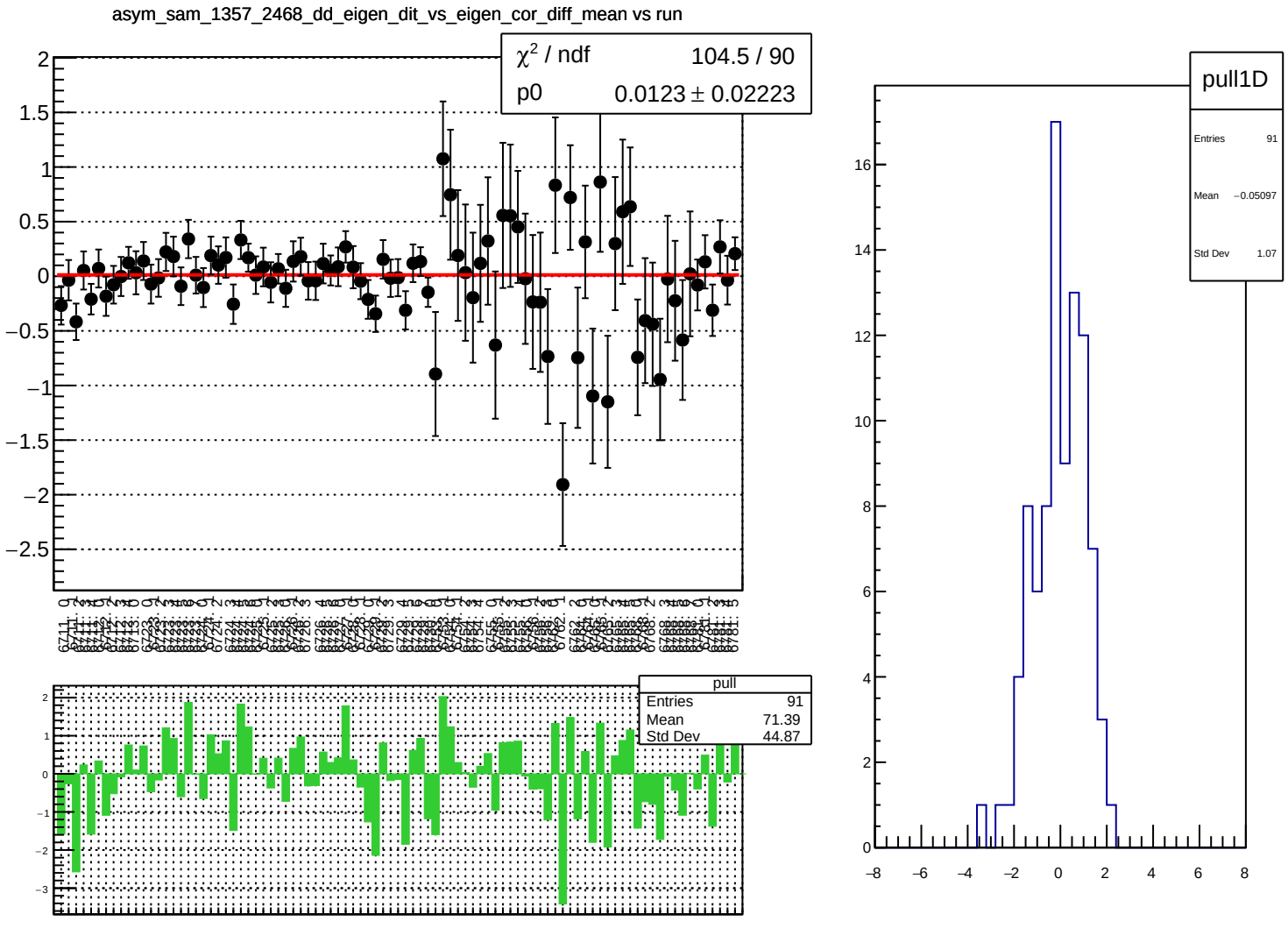

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.62 / 90
p0 −5.539e−07 ± 8.575e−07
pull
Entries 91
Mean −247.7
Std Dev 0

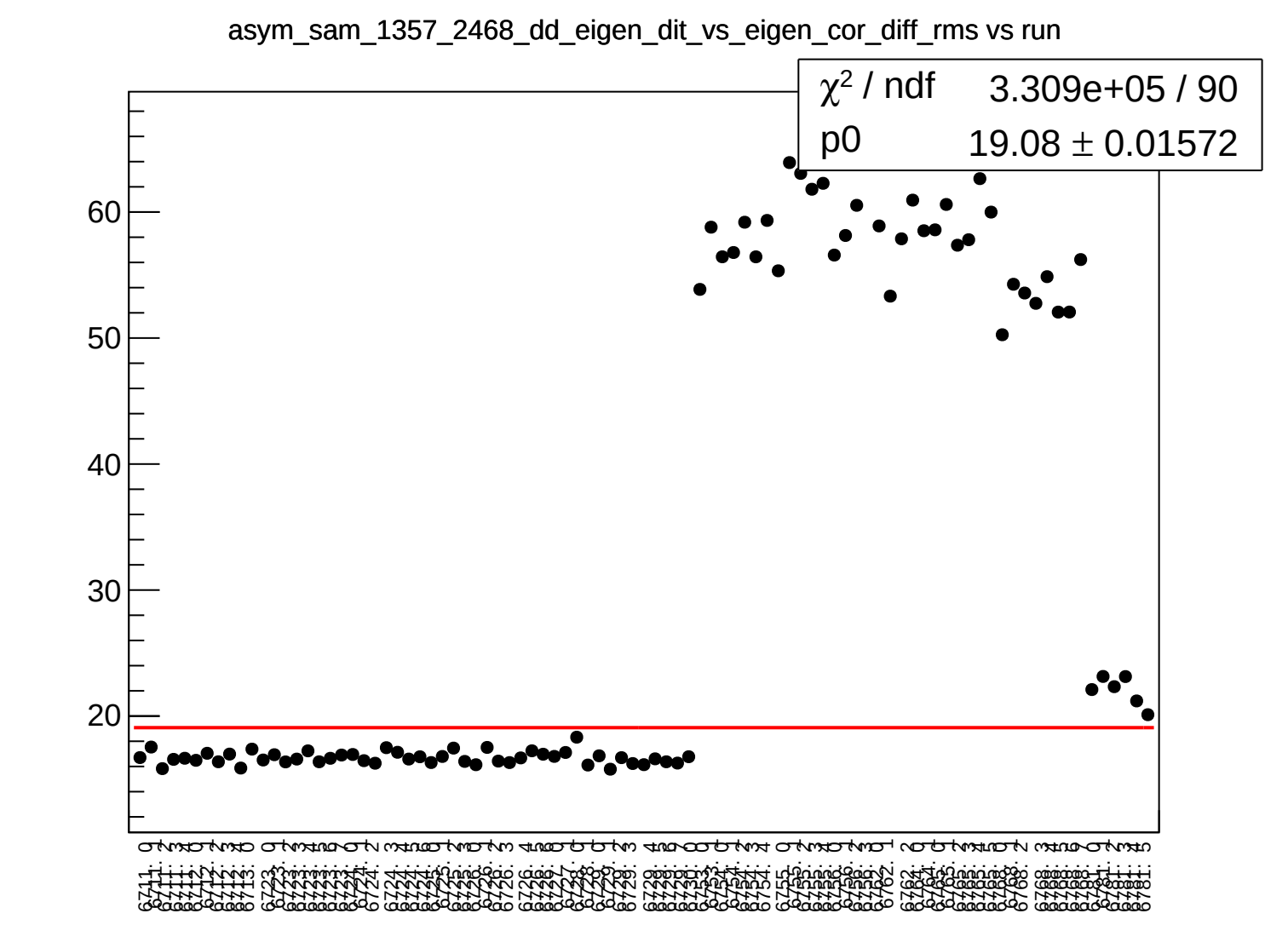

pull1D
Entries 91
Mean 0.006329
Std Dev 0.9812

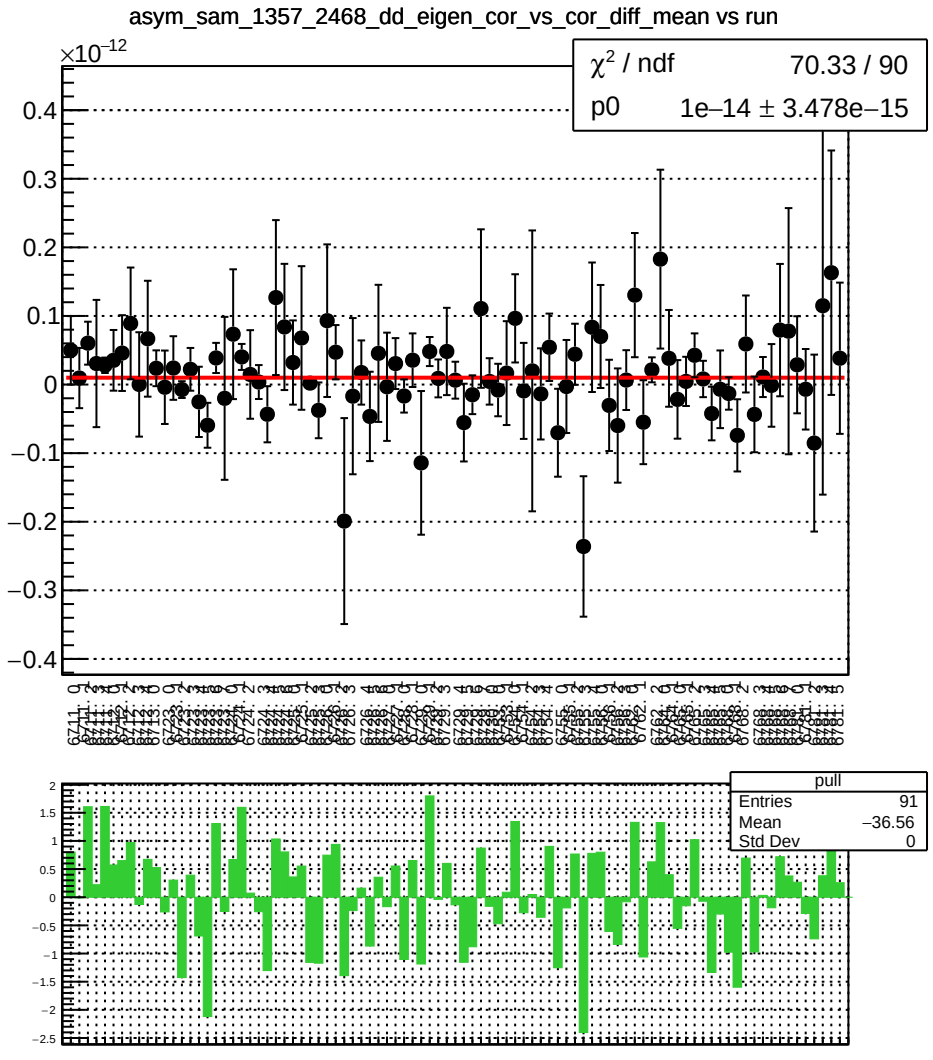

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.831e+04 / 90
p0 0.0007919 ± 6.063e−07
0.0014
0.0012
0.001
0.0008
0.0006

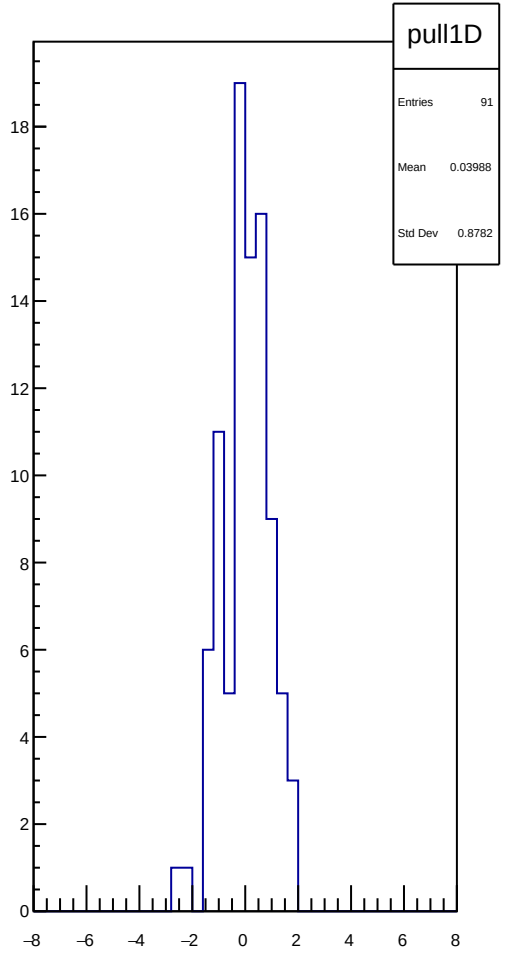

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.5 / 90
p0 0.0123 ± 0.02223
pull
Entries 91
Mean 71.39
Std Dev 44.87
pull1D
Entries 91
Mean −0.05097
Std Dev 1.07

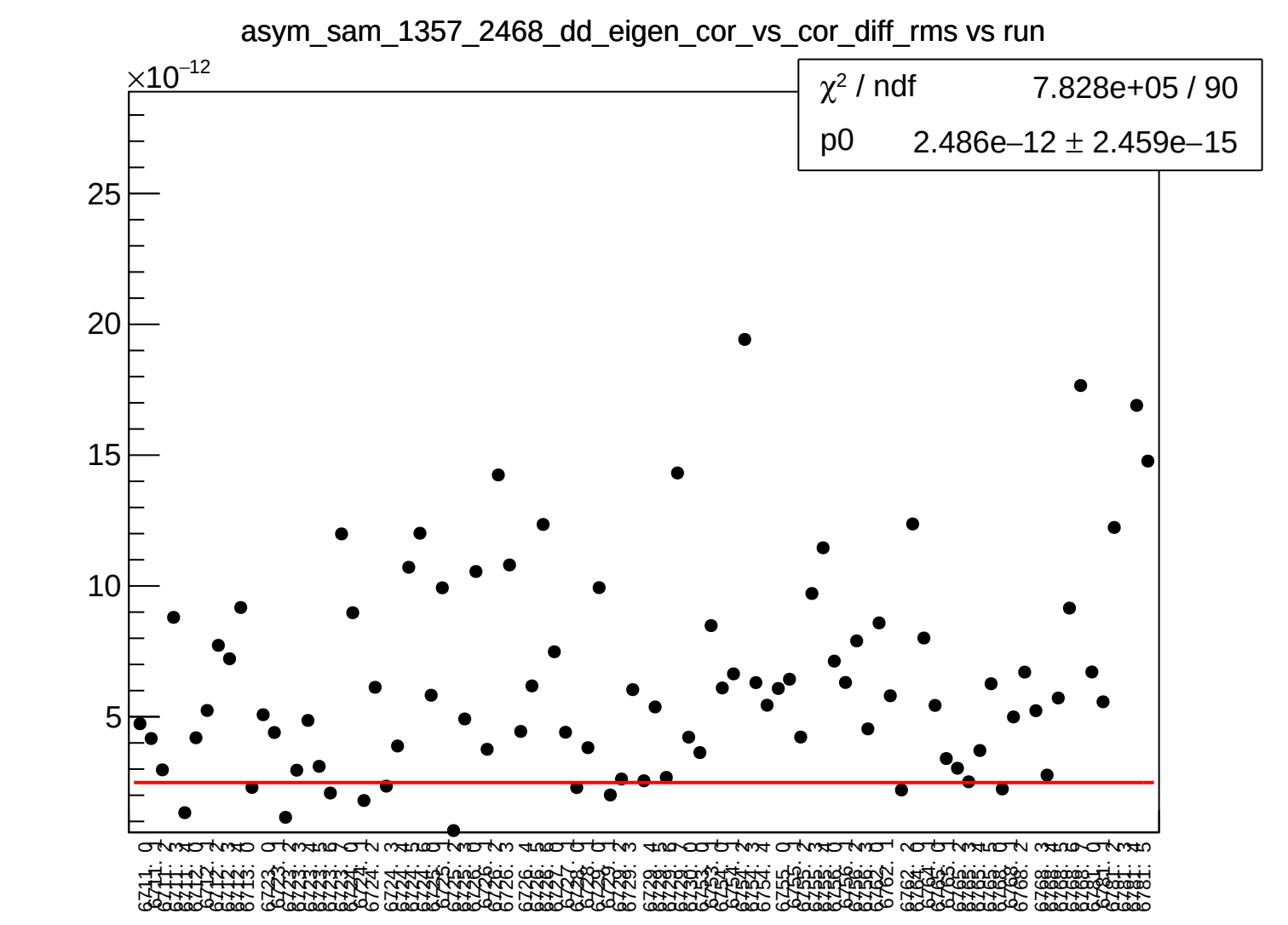

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.309e+05 / 90
p0 19.08 ± 0.01572
60
50
40
30
20

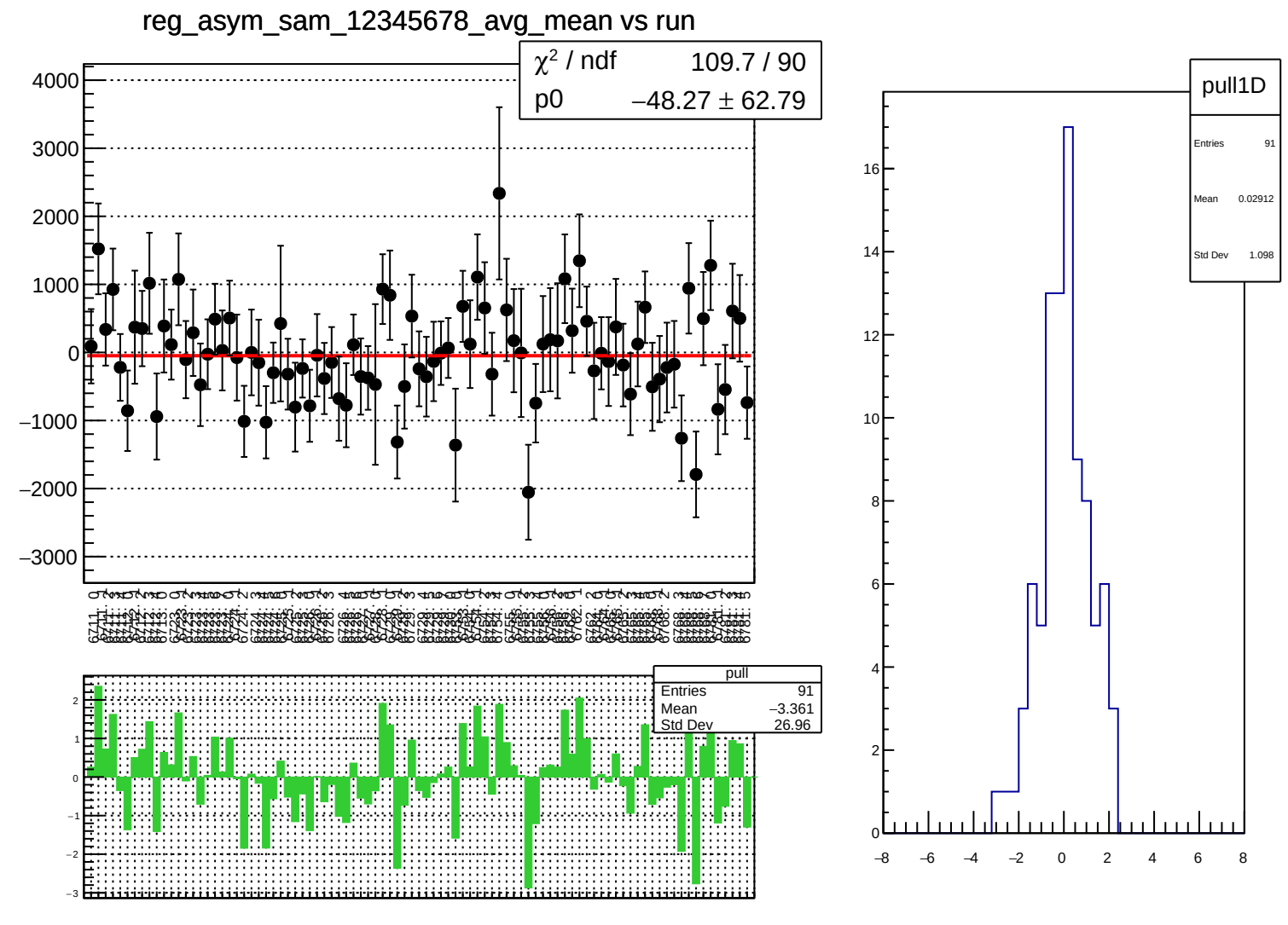

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.5 / 90
p0 0.0123 ± 0.02223
pull
Entries 91
Mean 71.39
Std Dev 44.87
pull1D
Entries 91
Mean −0.05097
Std Dev 1.07

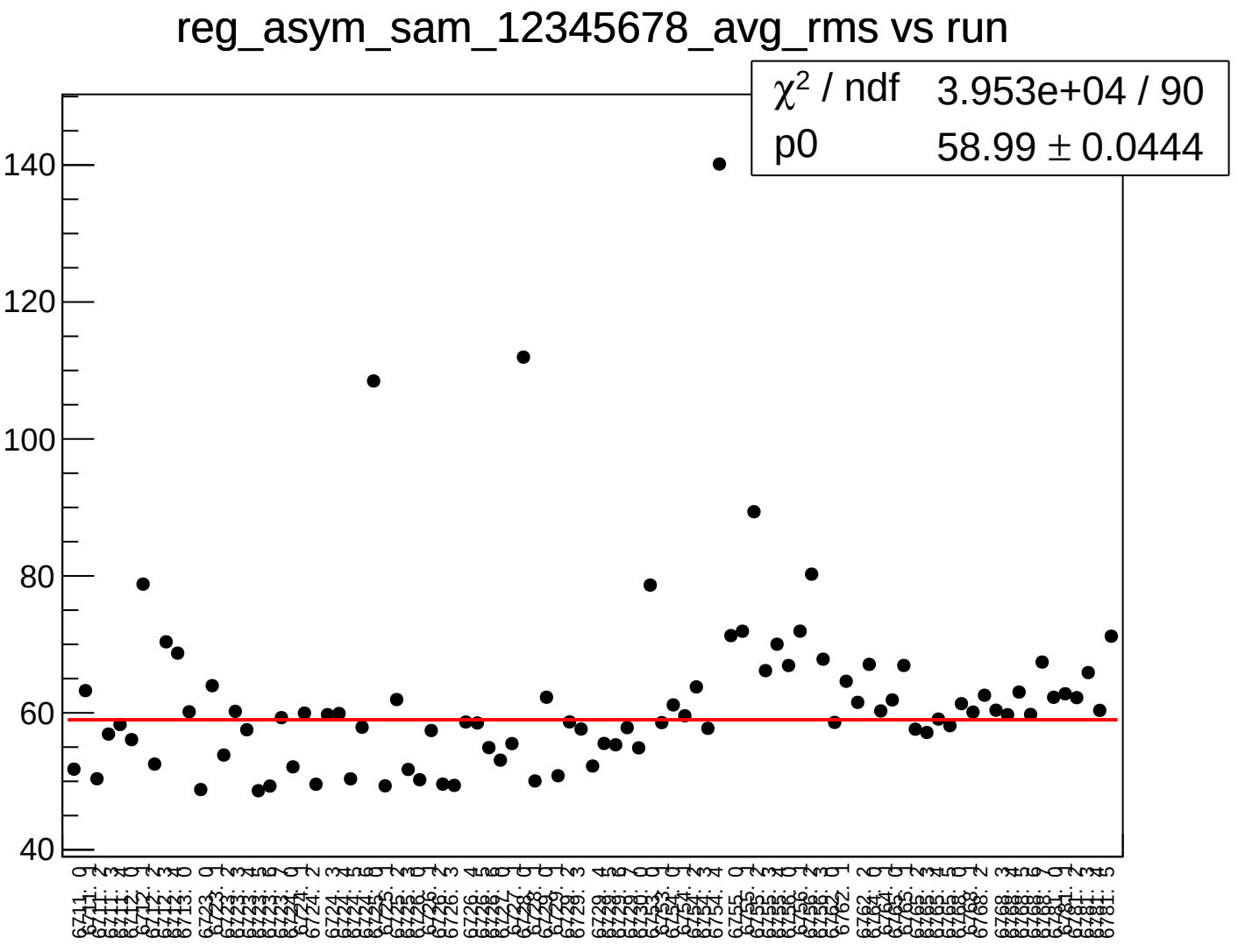

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.309e+05 / 90
p0 19.08 ± 0.01572
60
50
40
30
20

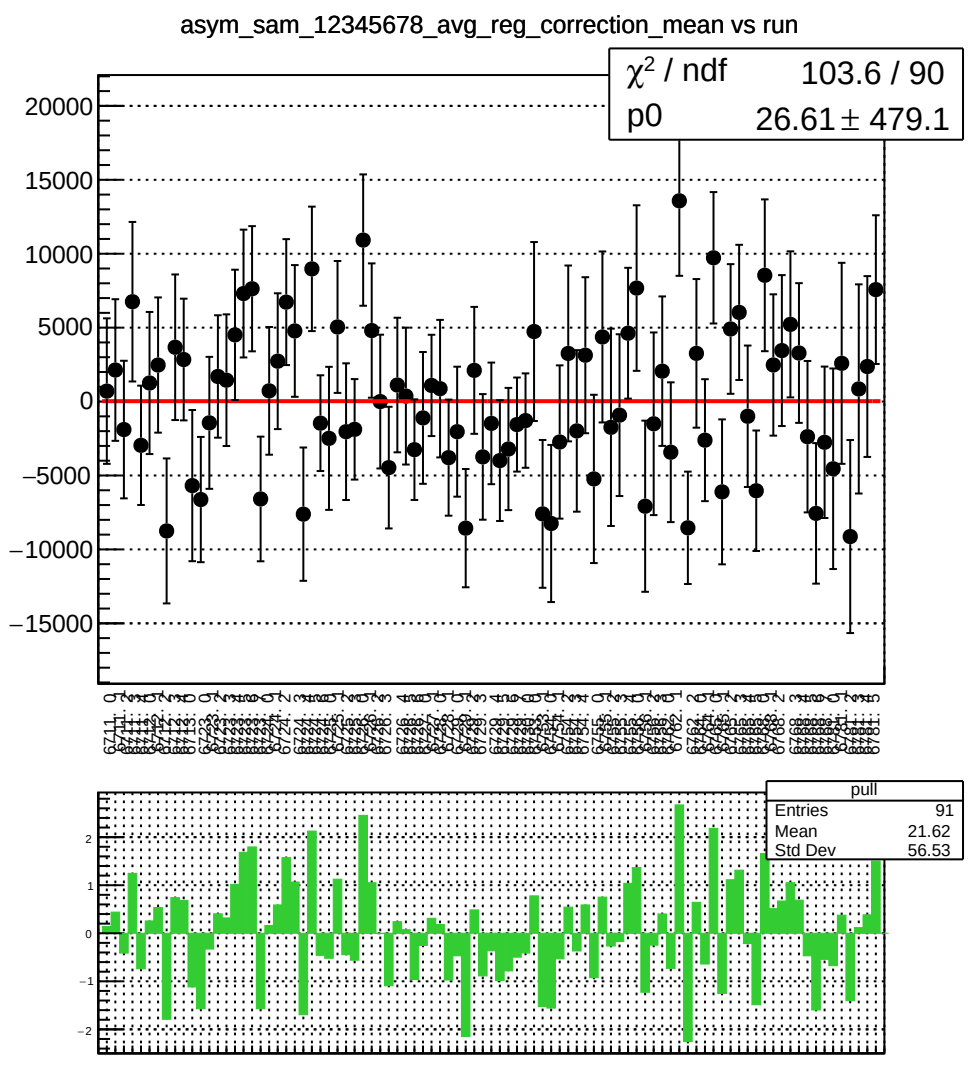

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.33 / 90
p0 1e−14 ± 3.478e−15
pull
Entries 91
Mean −36.56
Std Dev 0

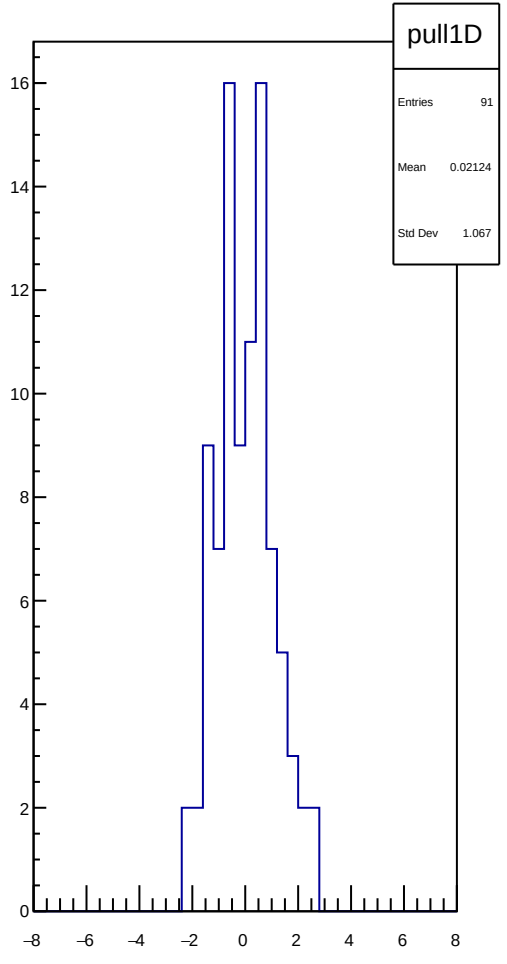

pull1D
Entries 91
Mean 0.03988
Std Dev 0.8782

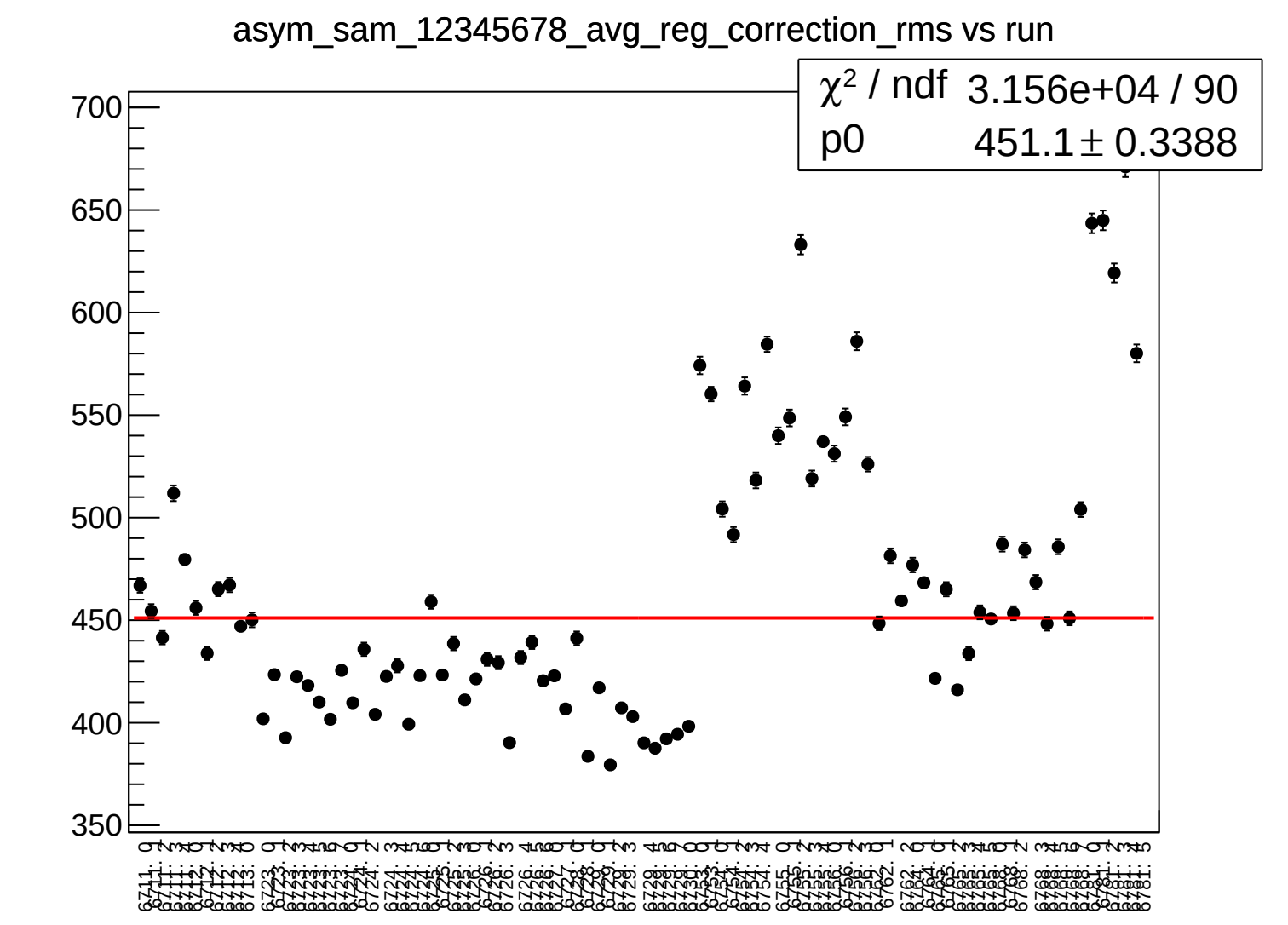

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.828e+05 / 90
p0 2.486e−12 ± 2.459e−15
25
20
15
10
5

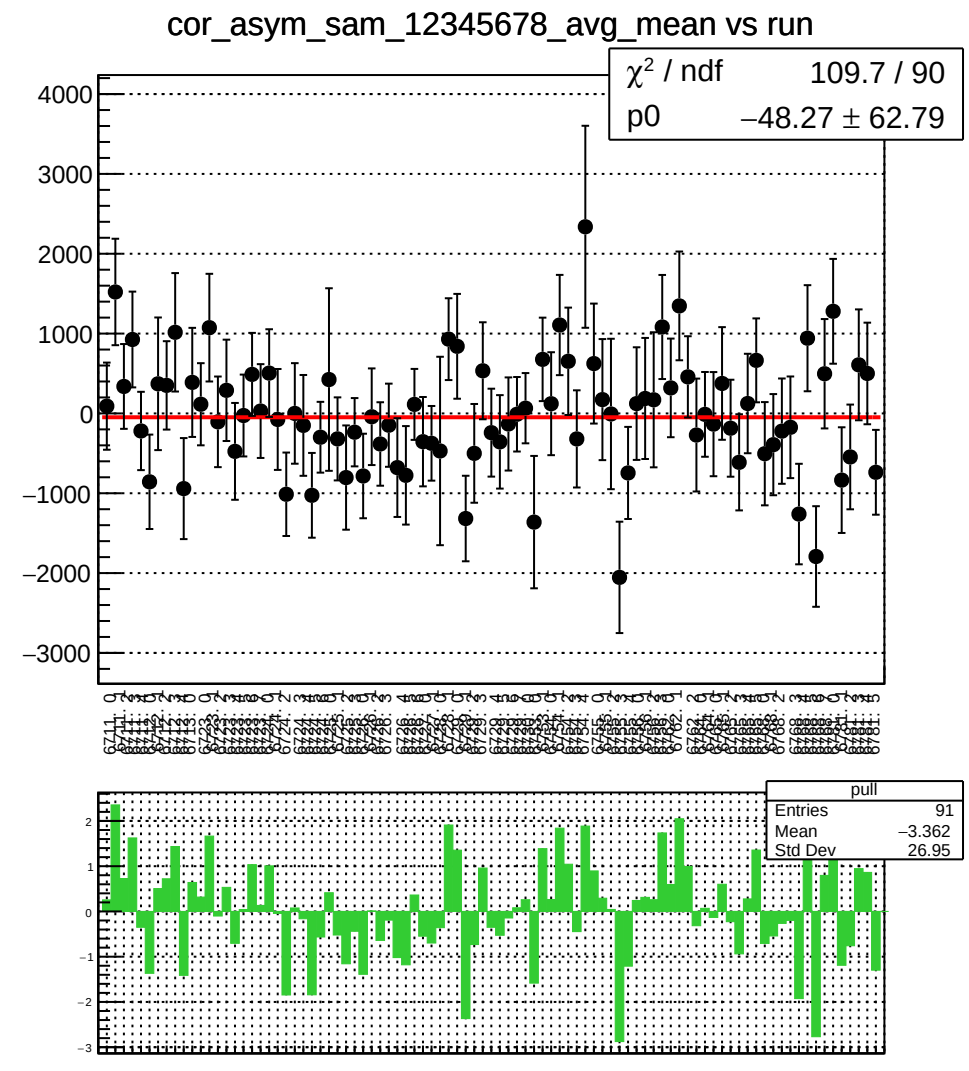

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 109.7 / 90
p0 −48.27 ± 62.79
pull
Entries 91
Mean −3.361
Std Dev 26.96
pull1D
Entries 91
Mean 0.02912
Std Dev 1.098

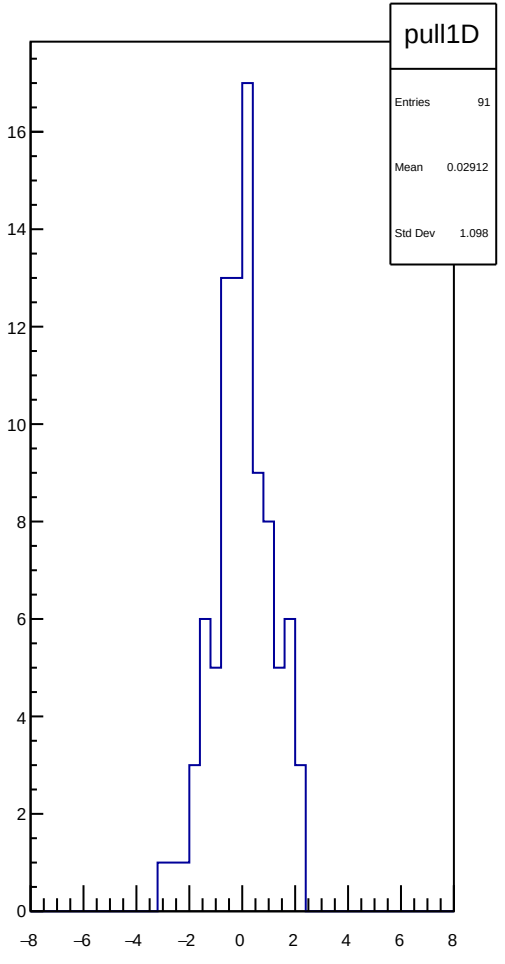

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.953e+04 / 90
p0 58.99 ± 0.0444
140
120
100
80
60
40

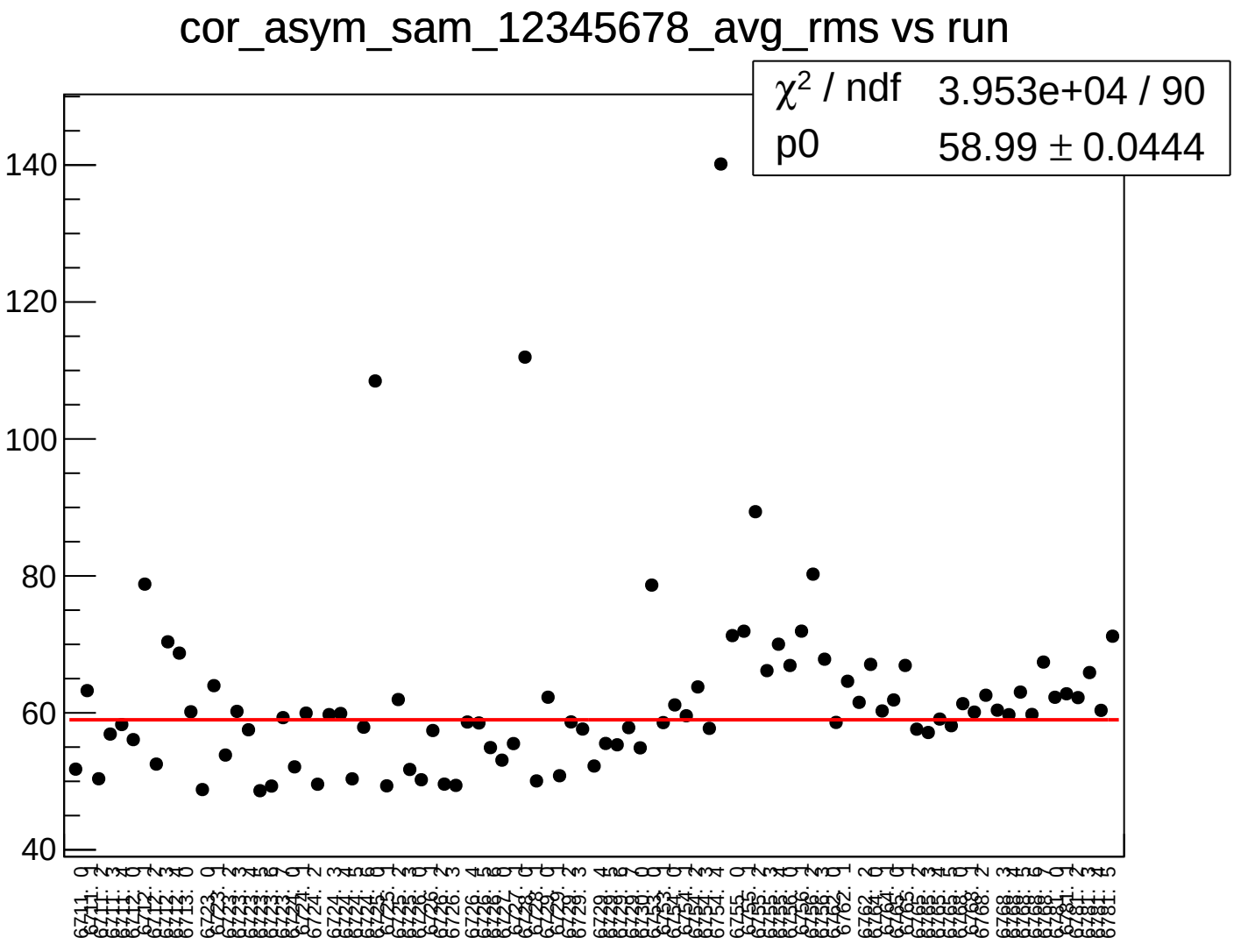

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 103.6 / 90
p0 26.61 ± 479.1
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 21.62
Std Dev 56.53
2
1
0
−1
−2

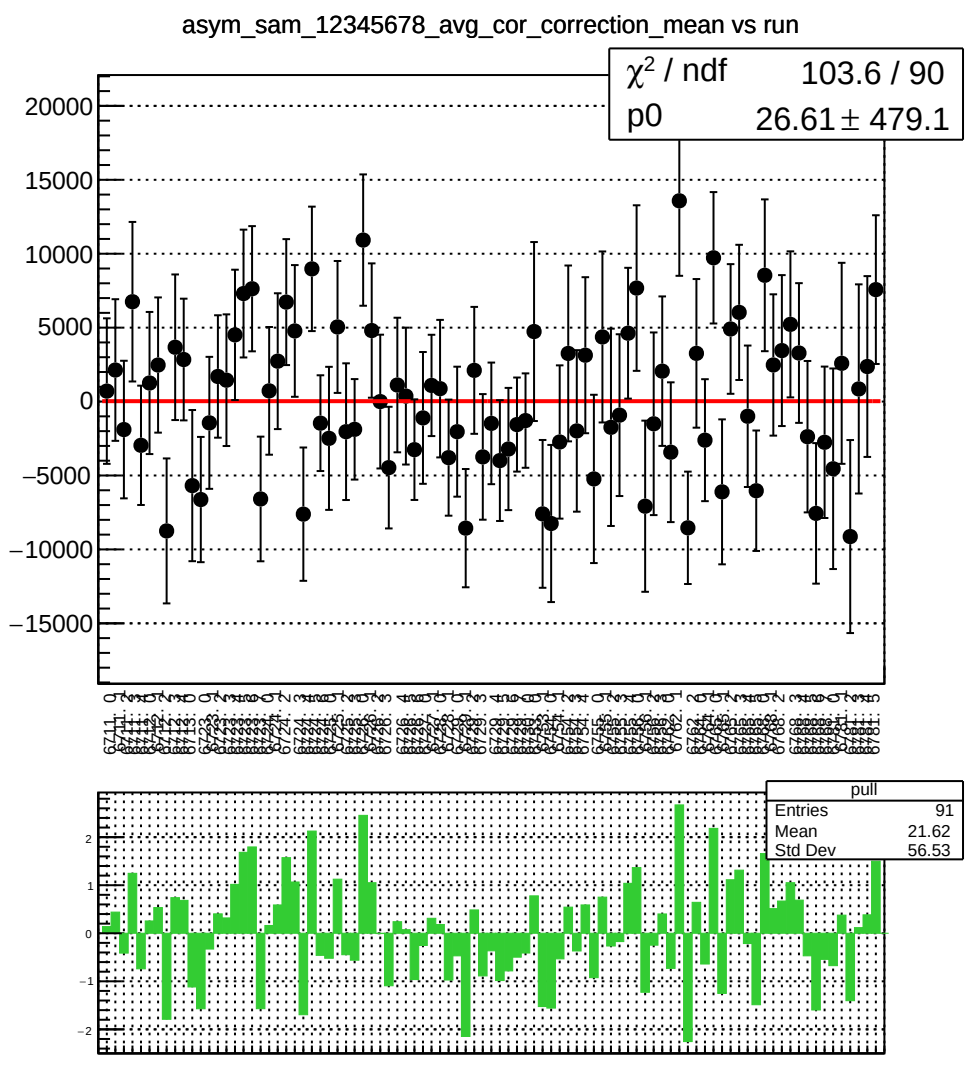

pull1D
Entries 91
Mean 0.02124
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

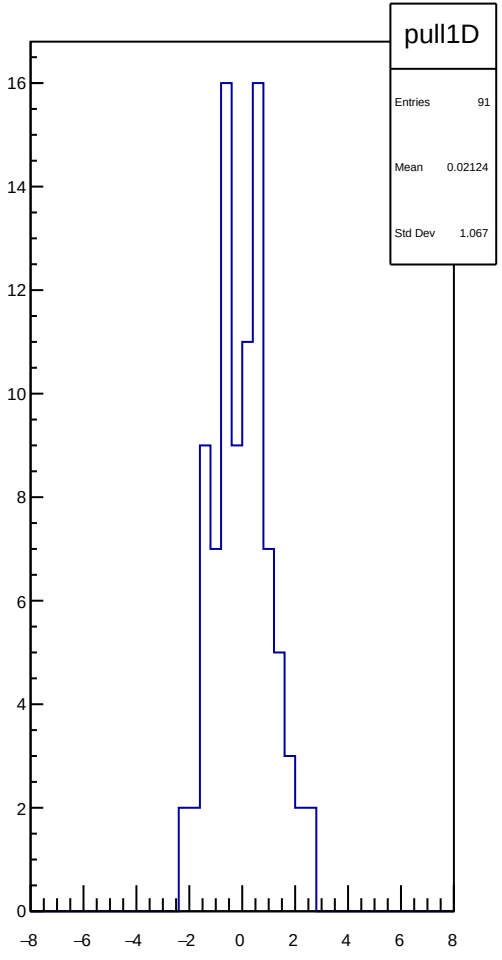

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 3.156e+04 / 90
p0 451.1 ± 0.3388
700
650
600
550
500
450
400
350

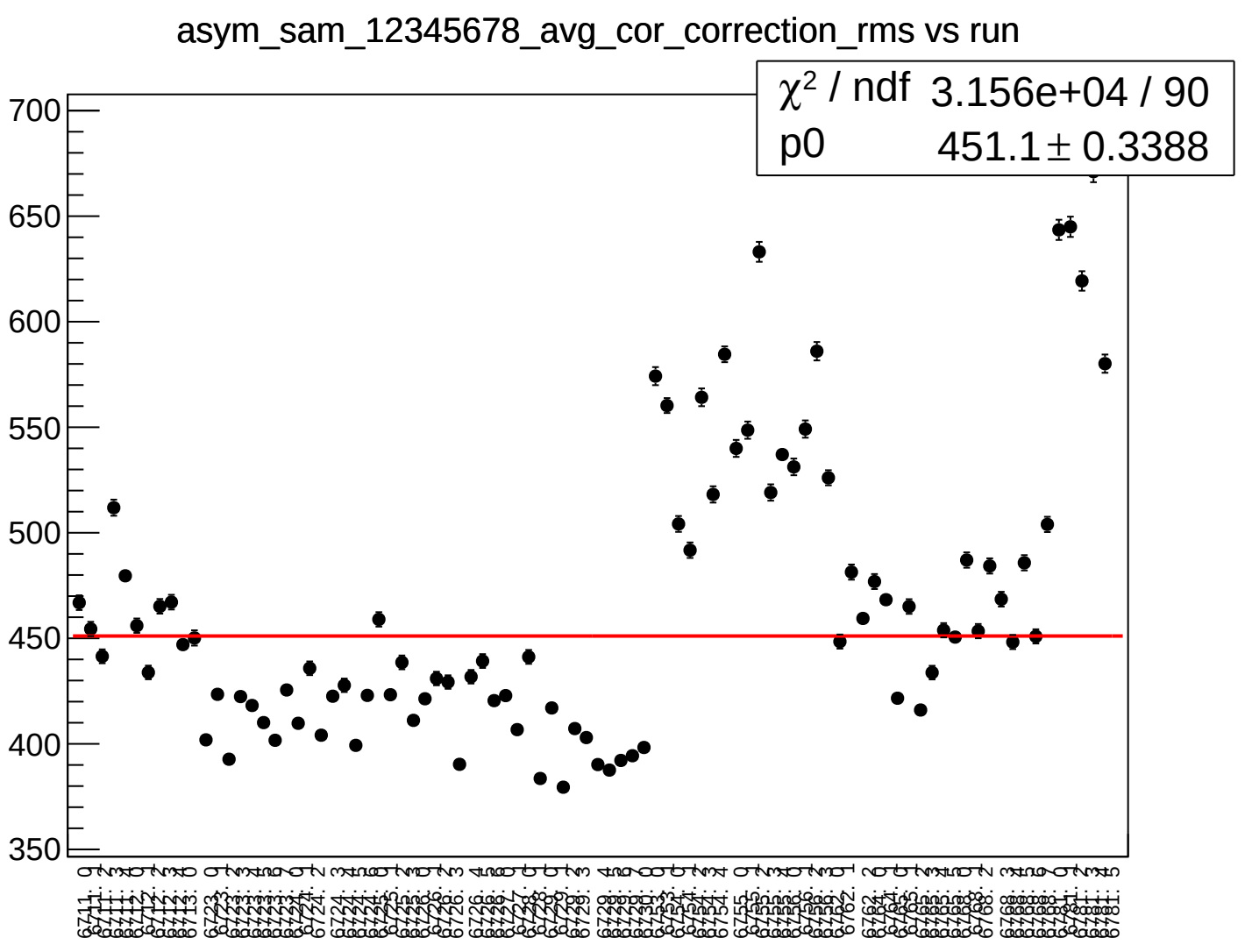

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 109.7 / 90
p0 −48.27 ± 62.79
pull
Entries 91
Mean −3.362
Std Dev 26.95

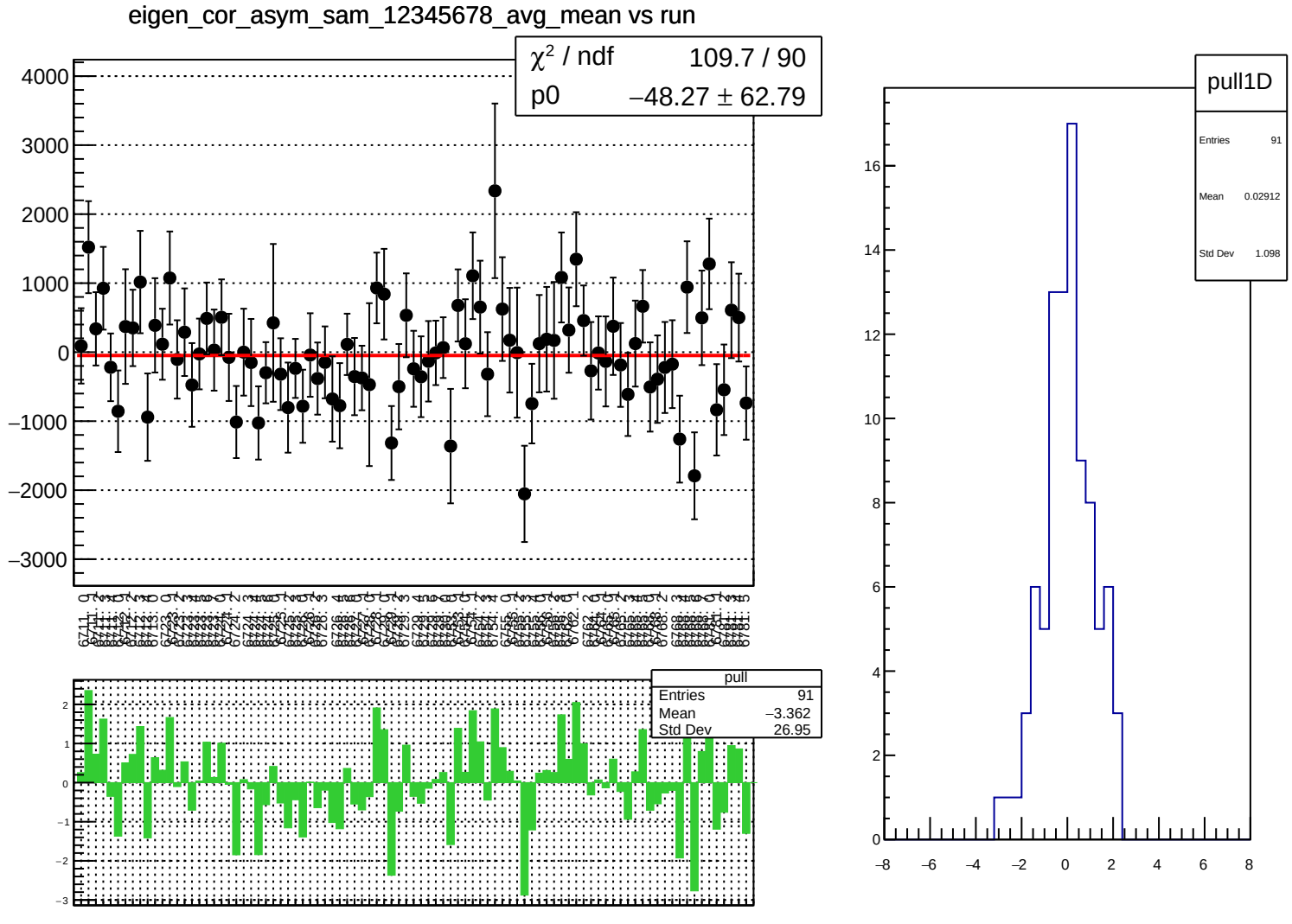

pull1D
Entries 91
Mean 0.02912
Std Dev 1.098

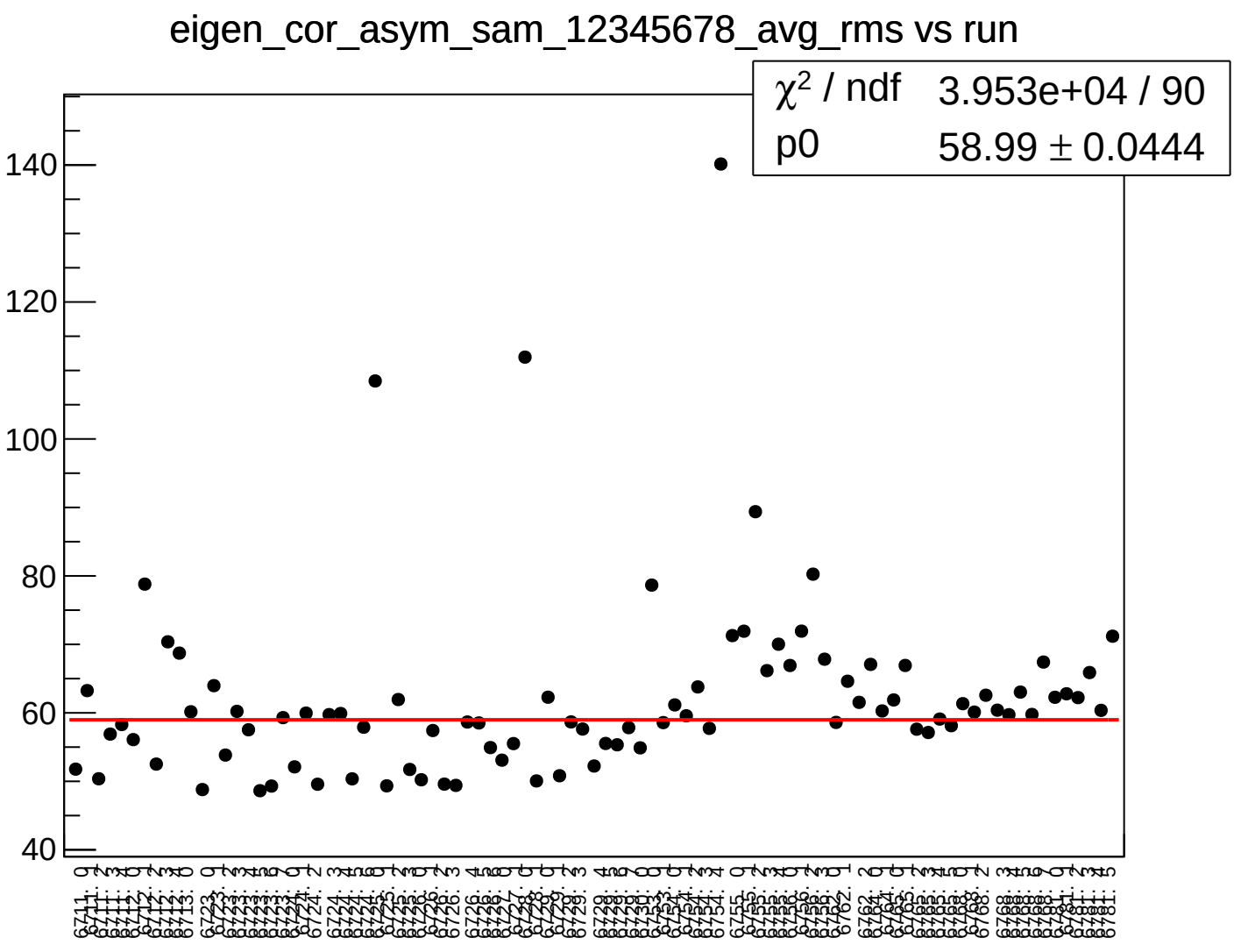

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.953e+04 / 90
p0 58.99 ± 0.0444
140
120
100
80
60
40

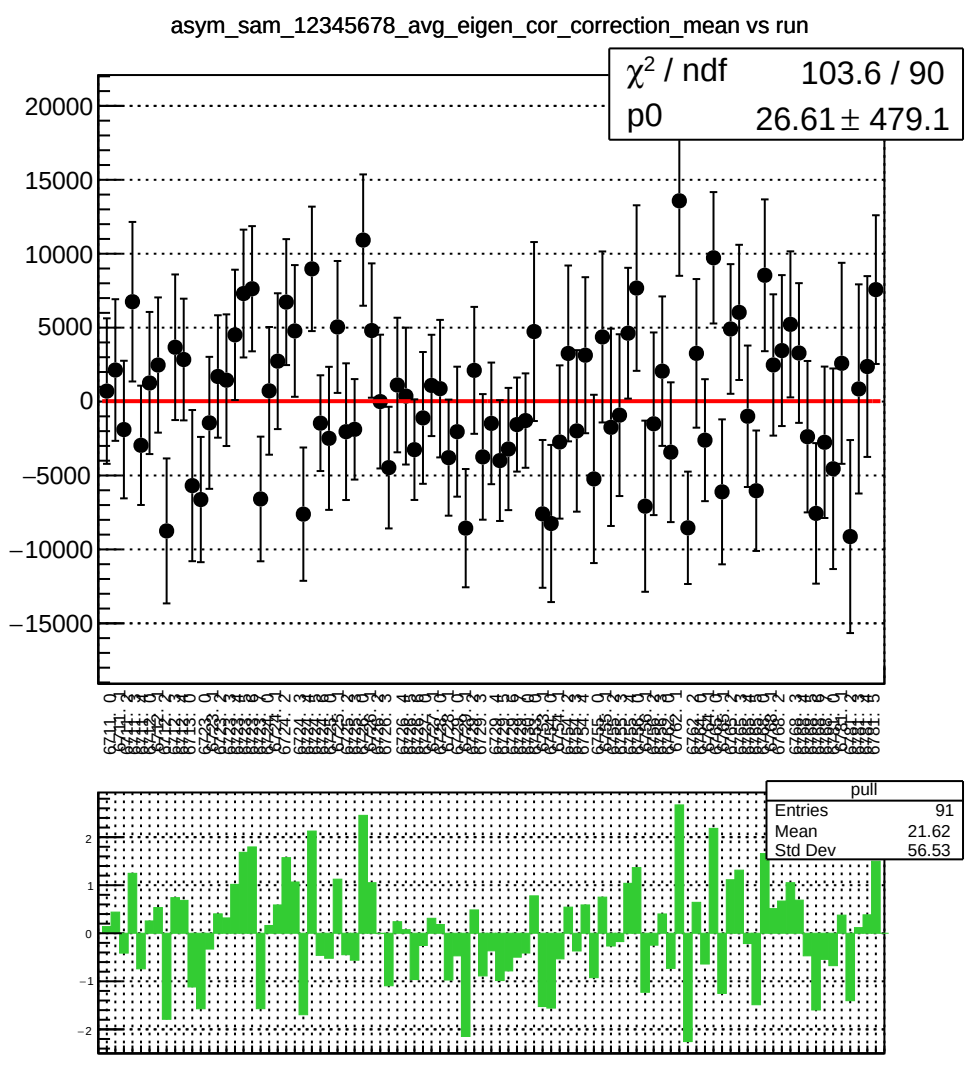

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 103.6 / 90
p0 26.61 ± 479.1
pull
Entries 91
Mean 21.62
Std Dev 56.53

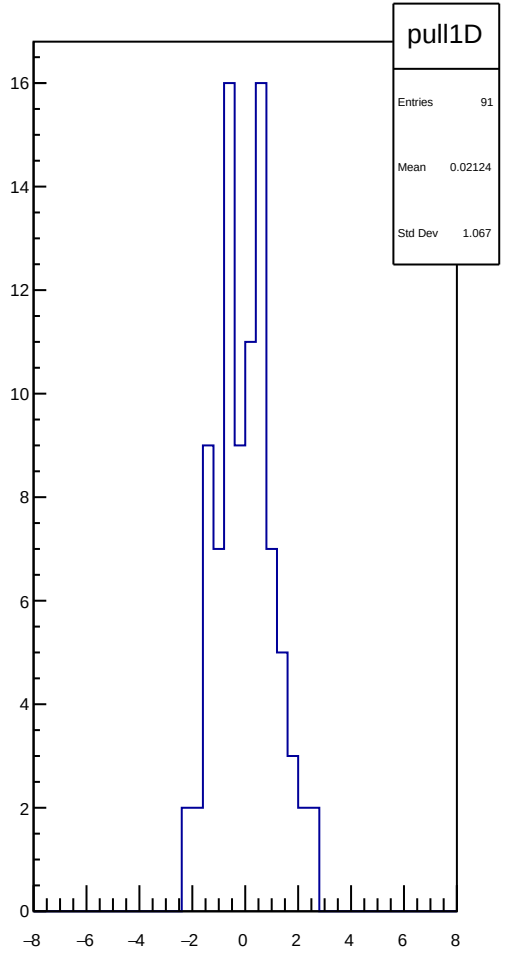

pull1D
Entries 91
Mean 0.02124
Std Dev 1.067

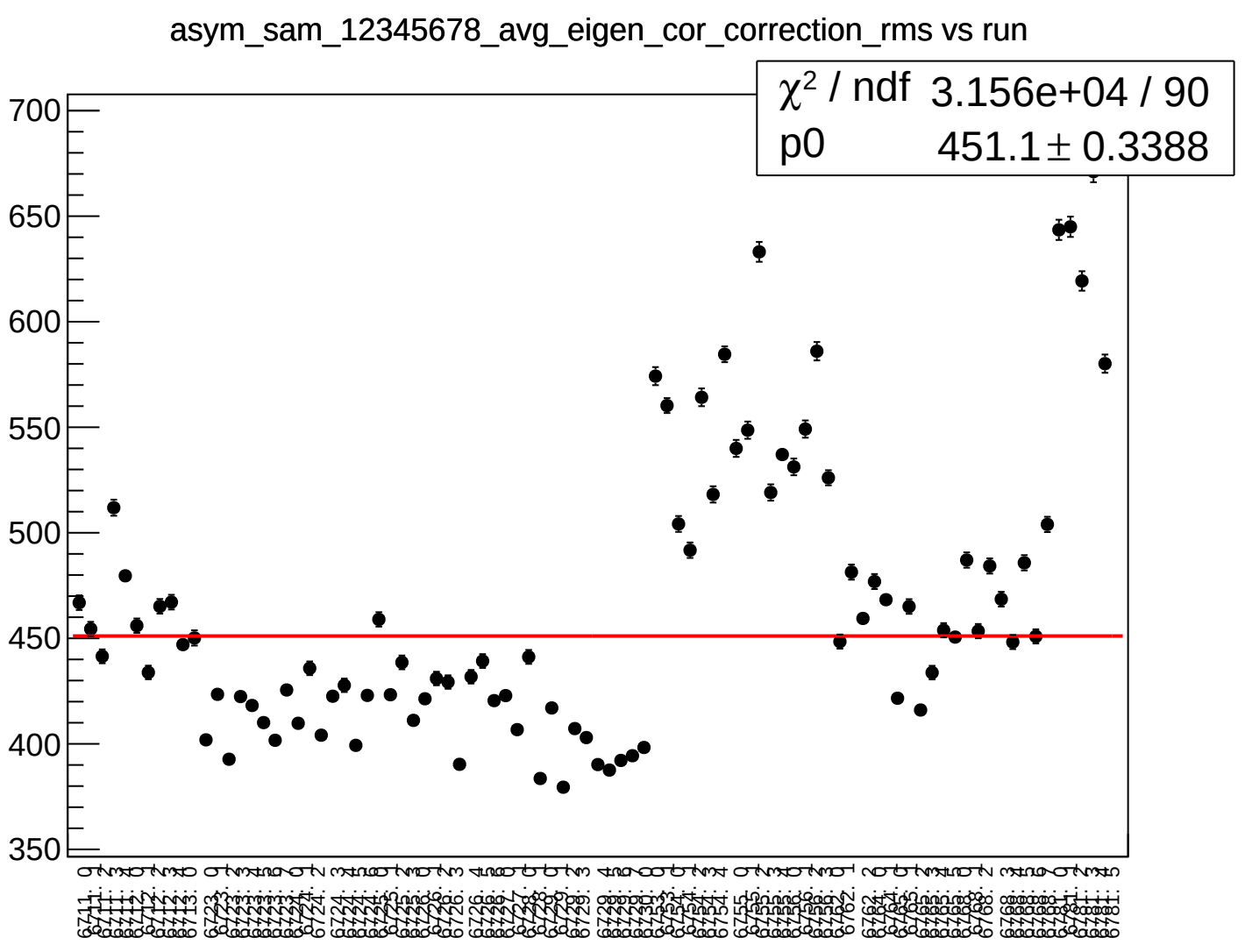

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 3.156e+04 / 90
p0 451.1 ± 0.3388
700
650
600
550
500
450
400
350

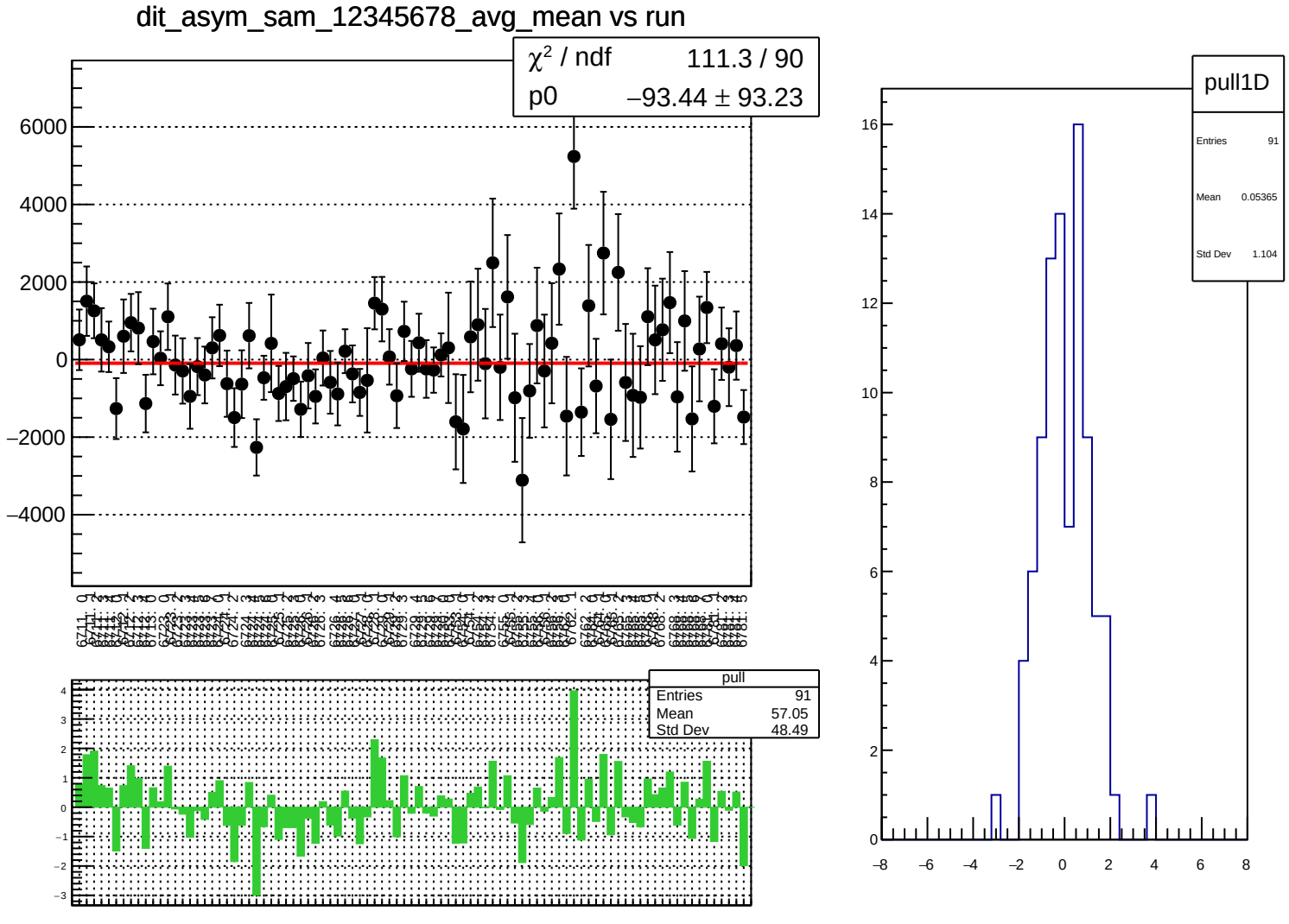

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 109.7 / 90
p0 −48.27 ± 62.79
pull
Entries 91
Mean −3.362
Std Dev 26.95
pull1D
Entries 91
Mean 0.02912
Std Dev 1.098

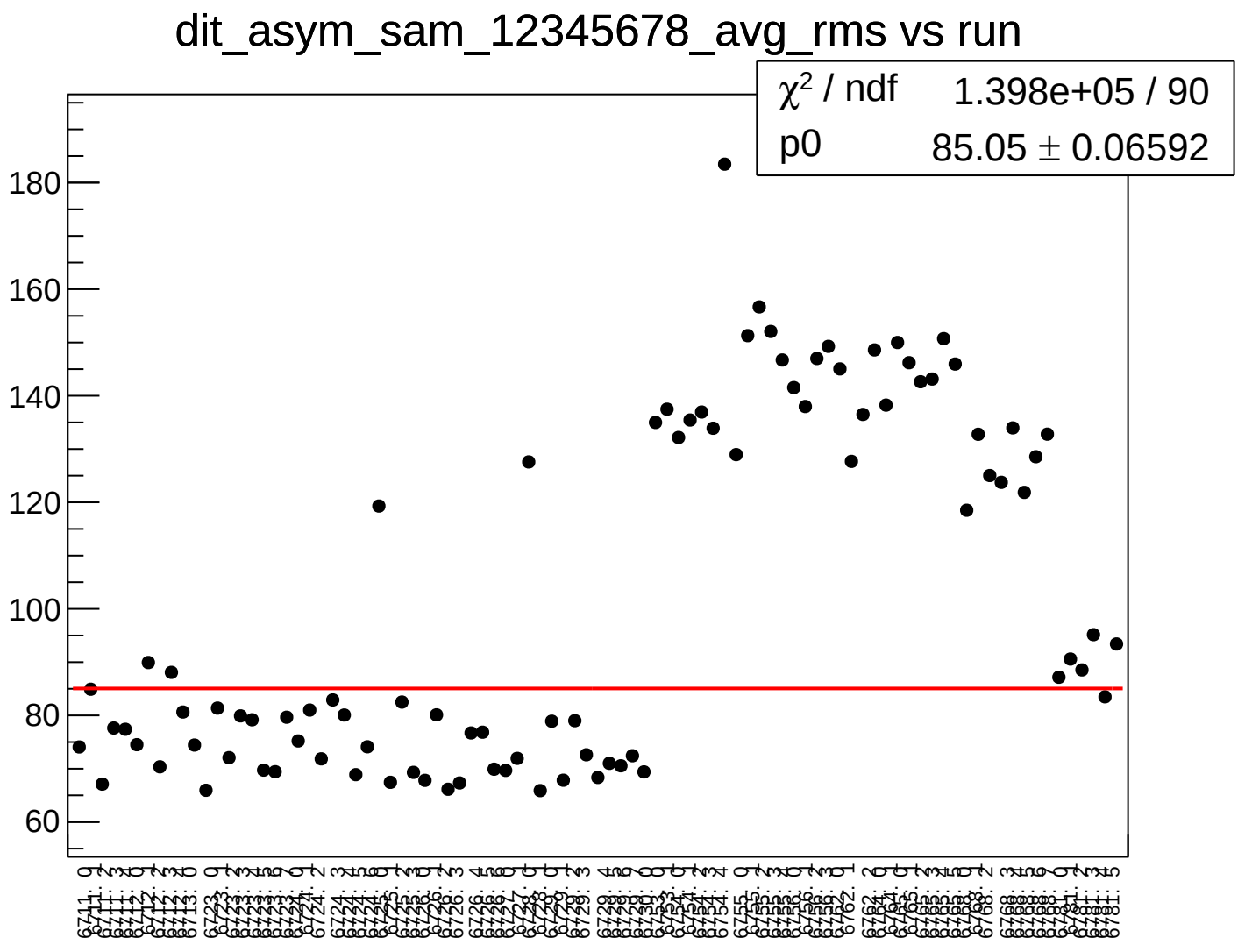

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.953e+04 / 90
p0 58.99 ± 0.0444
140
120
100
80
60
40

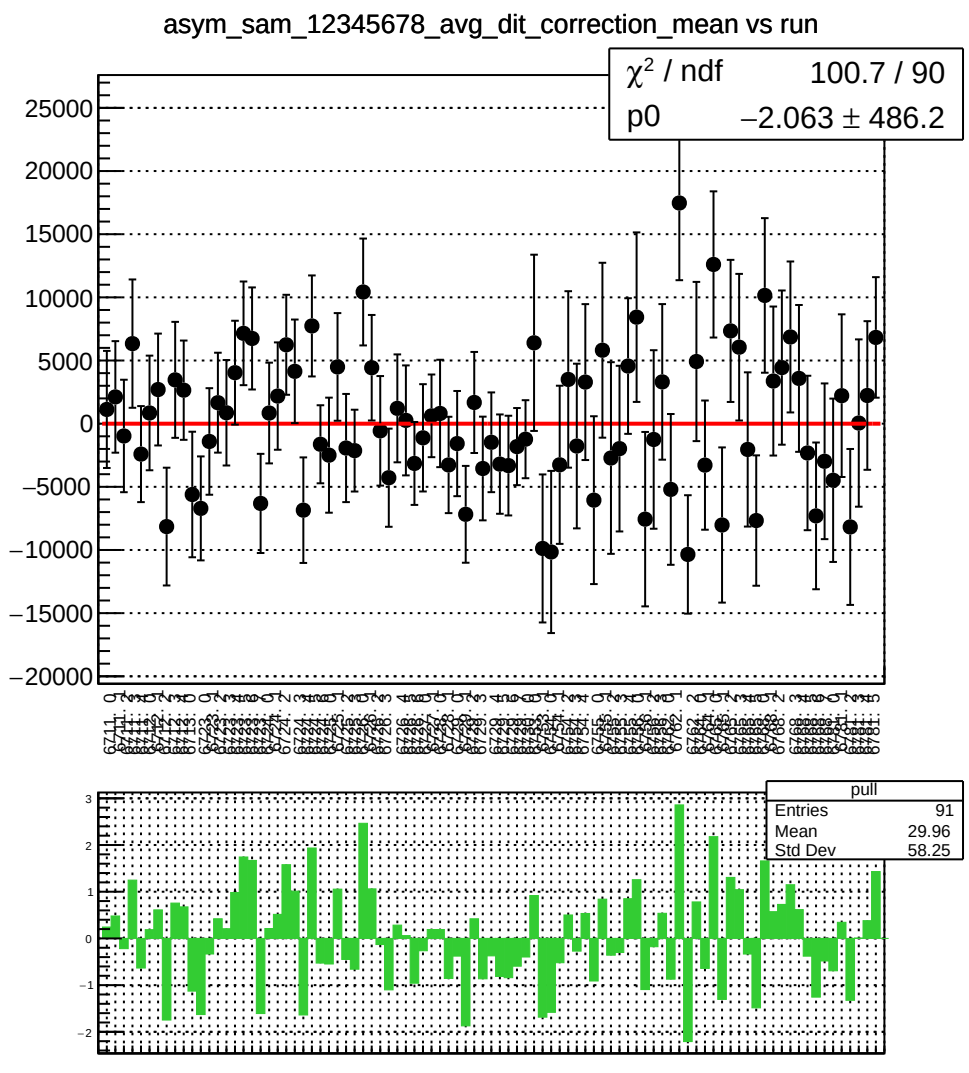

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 103.6 / 90
p0 26.61 ± 479.1
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 91
Mean 21.62
Std Dev 56.53
2
1
0
−1
−2

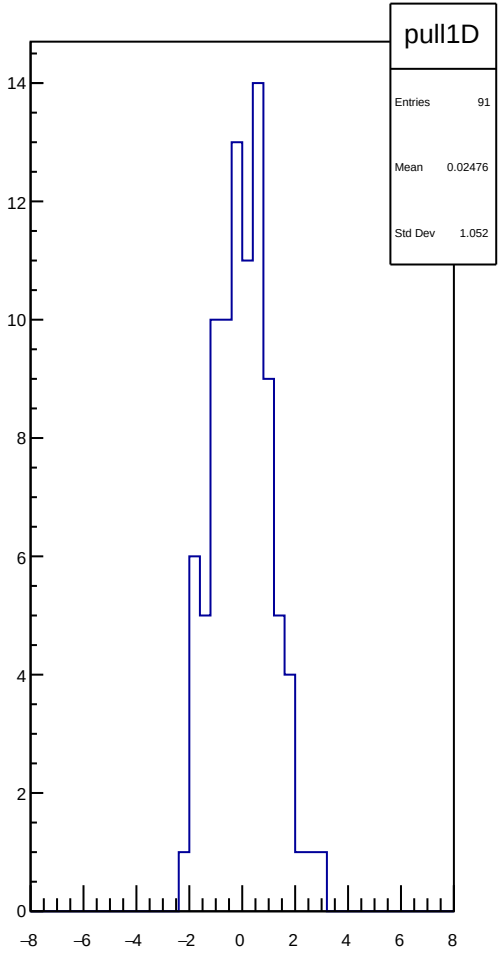

pull1D
Entries 91
Mean 0.02124
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

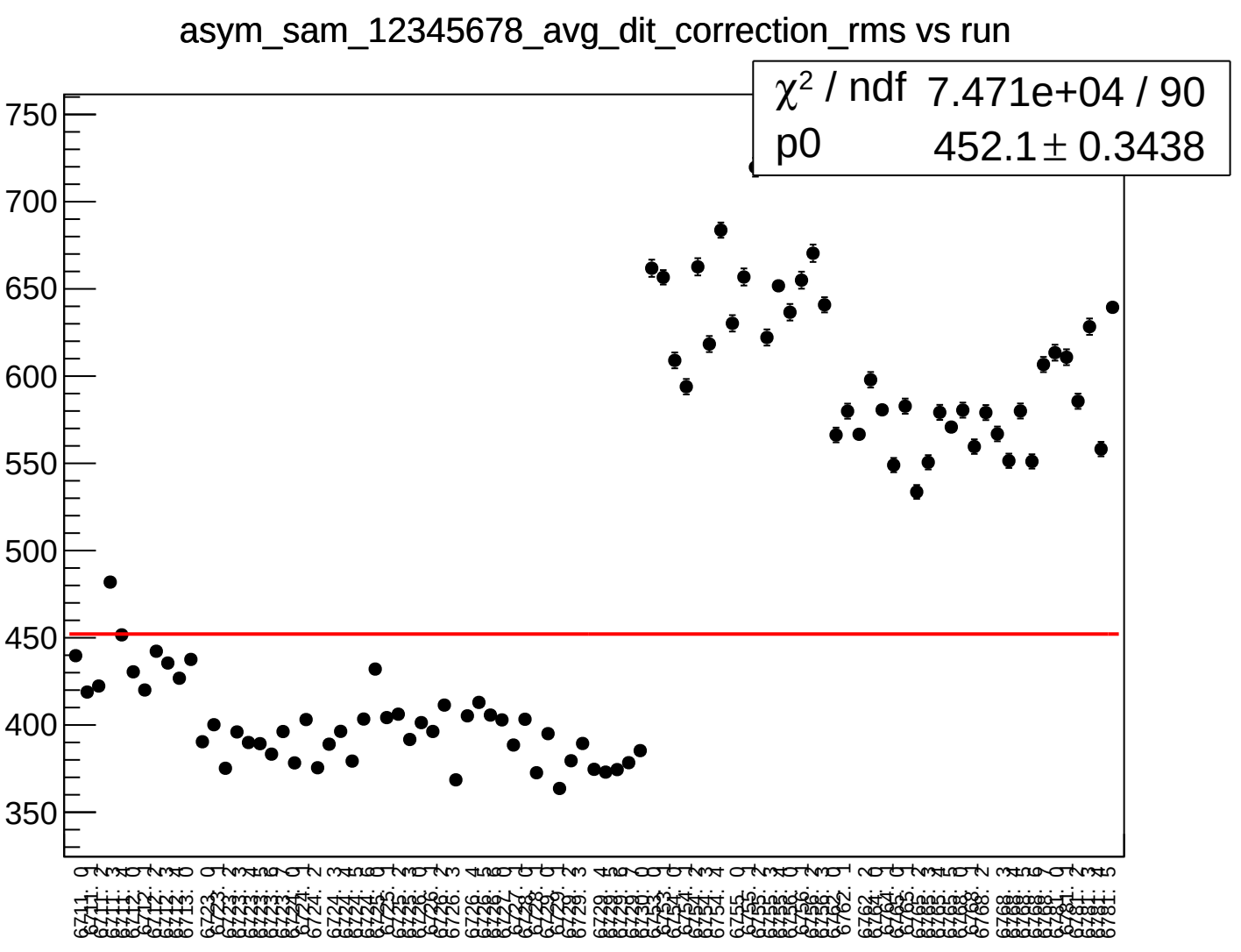

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.156e+04 / 90
p0 451.1 ± 0.3388
700
650
600
550
500
450
400
350

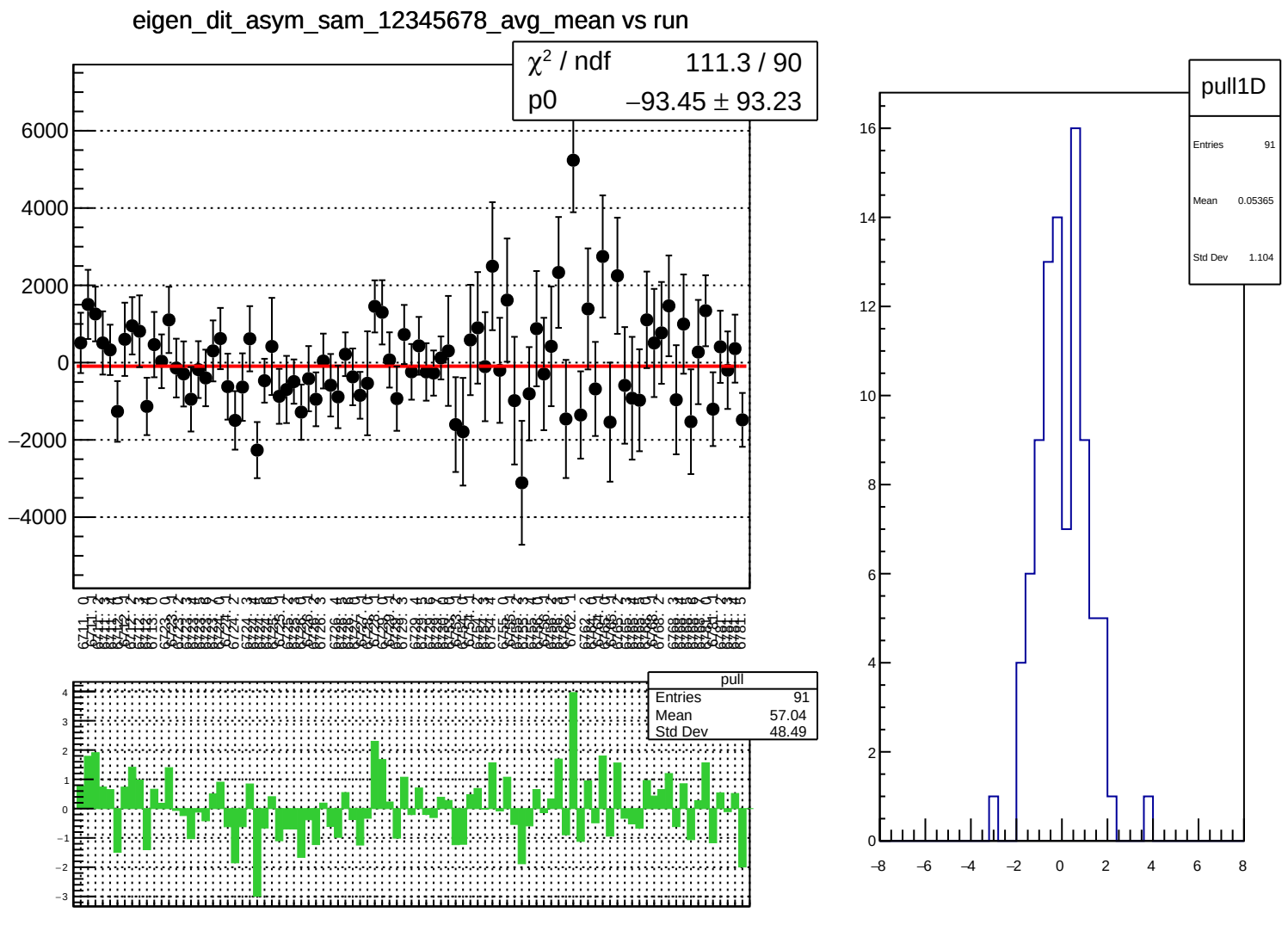

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 111.3 / 90
p0 −93.44 ± 93.23
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 57.05
Std Dev 48.49
pull1D
Entries 91
Mean 0.05365
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

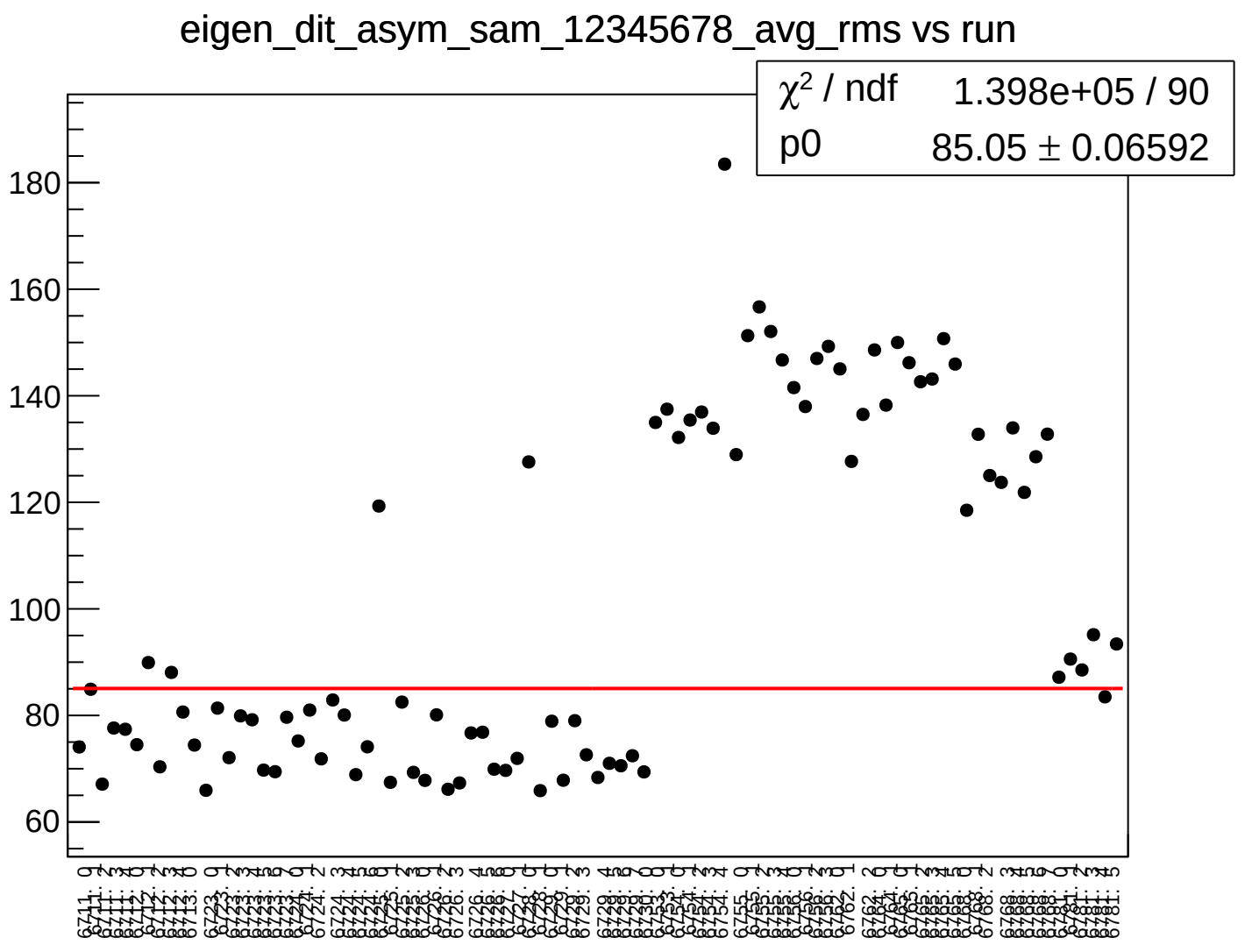

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.398e+05 / 90
p0 85.05 ± 0.06592
180
160
140
120
100
80
60

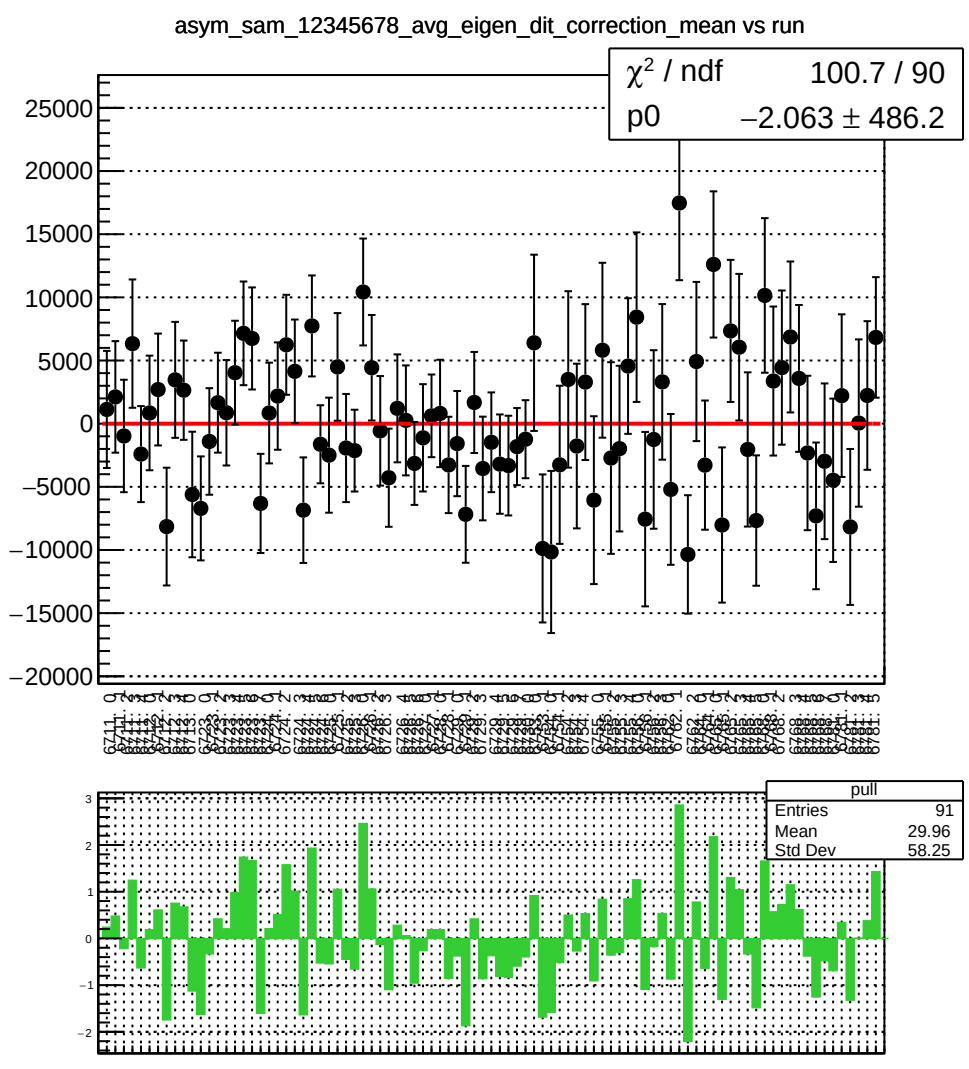

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 100.7 / 90
p0 −2.063 ± 486.2
pull
Entries 91
Mean 29.96
Std Dev 58.25

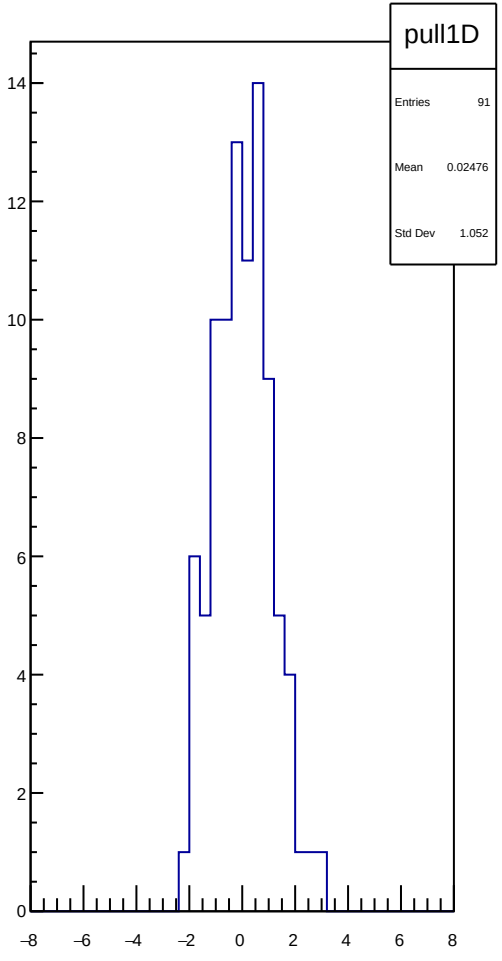

pull1D
Entries 91
Mean 0.02476
Std Dev 1.052

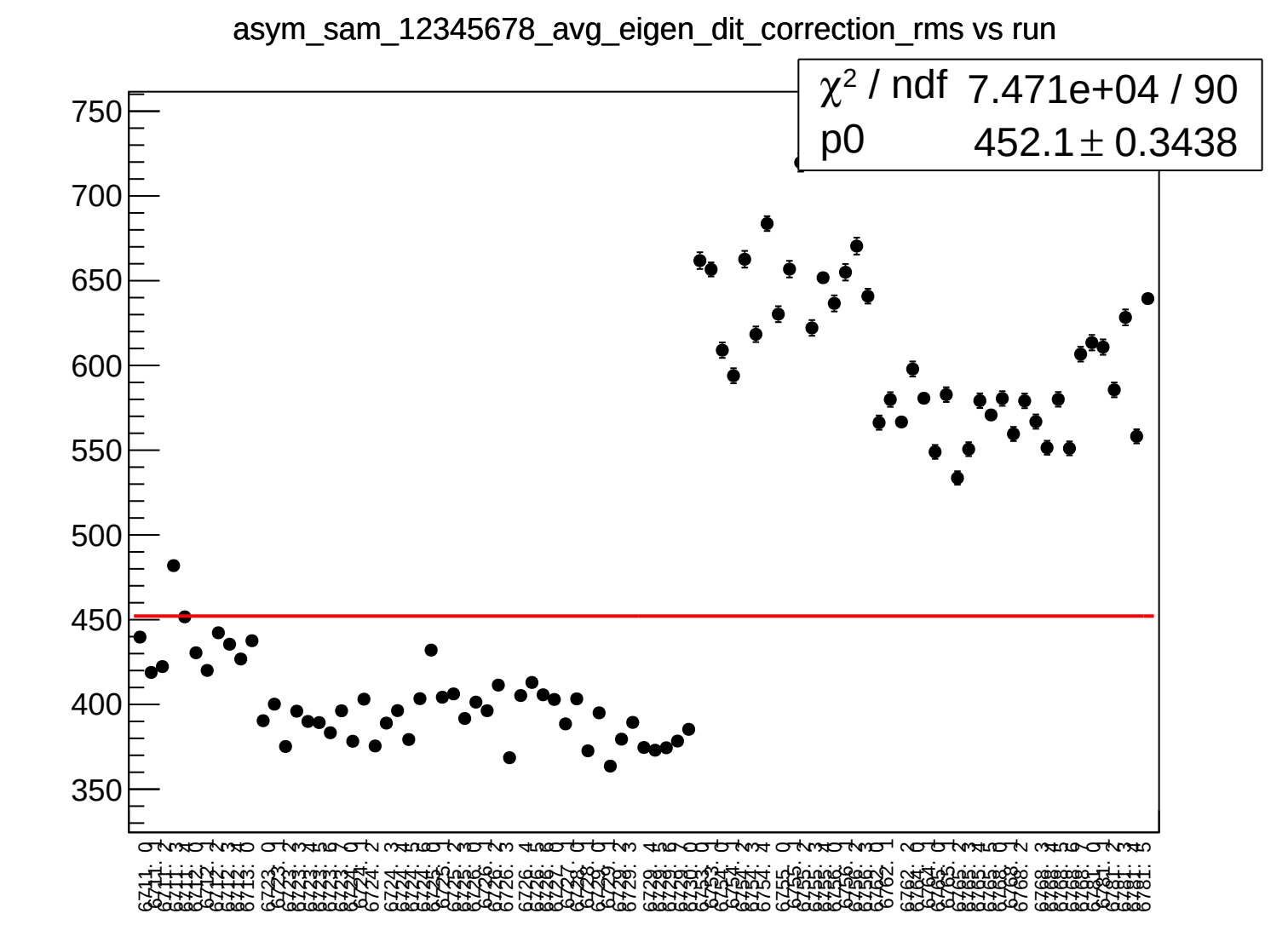

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 7.471e+04 / 90
p0 452.1 ± 0.3438
750
700
650
600
550
500
450
400
350

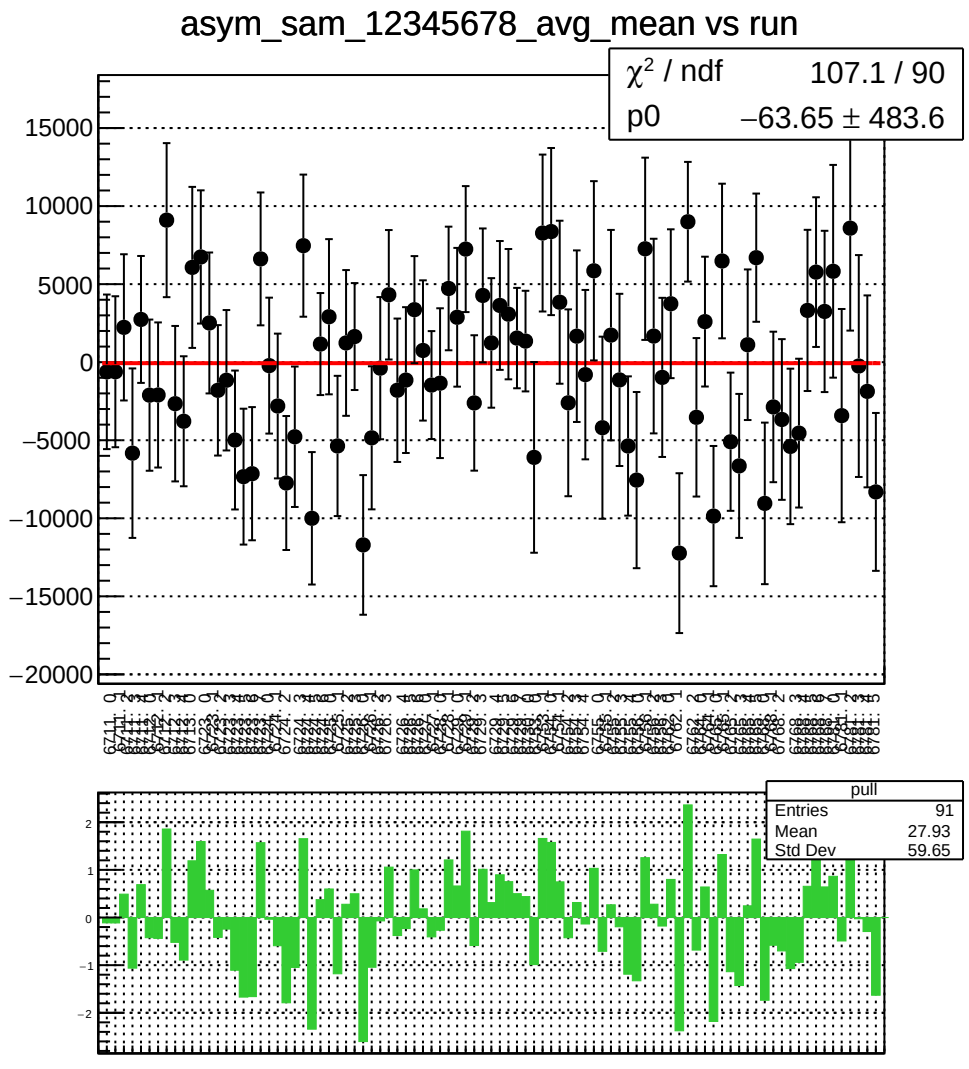

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 111.3 / 90
p0 −93.45 ± 93.23
6000
4000
2000
0
−2000
−4000
pull
Entries 91
Mean 57.04
Std Dev 48.49
4
3
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.05365
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

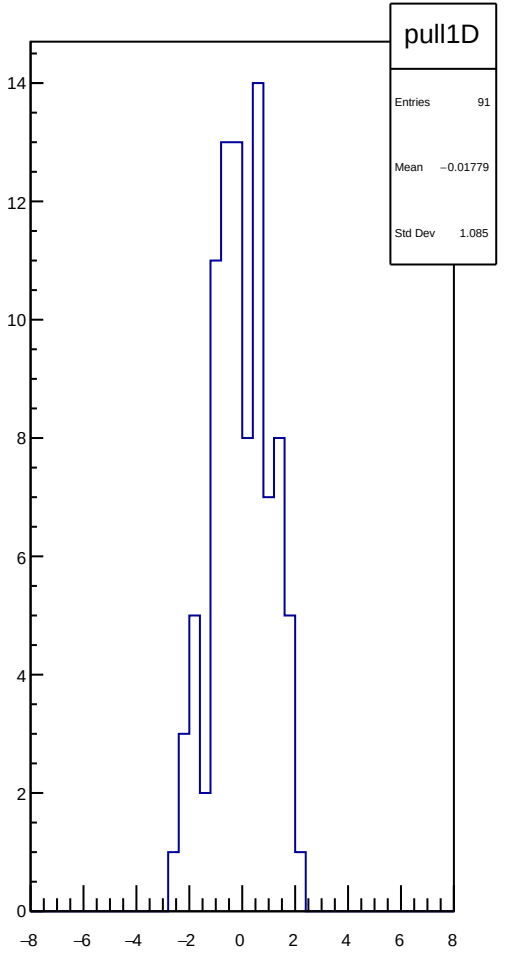

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.398e+05 / 90
p0 85.05 ± 0.06592
180
160
140
120
100
80
60

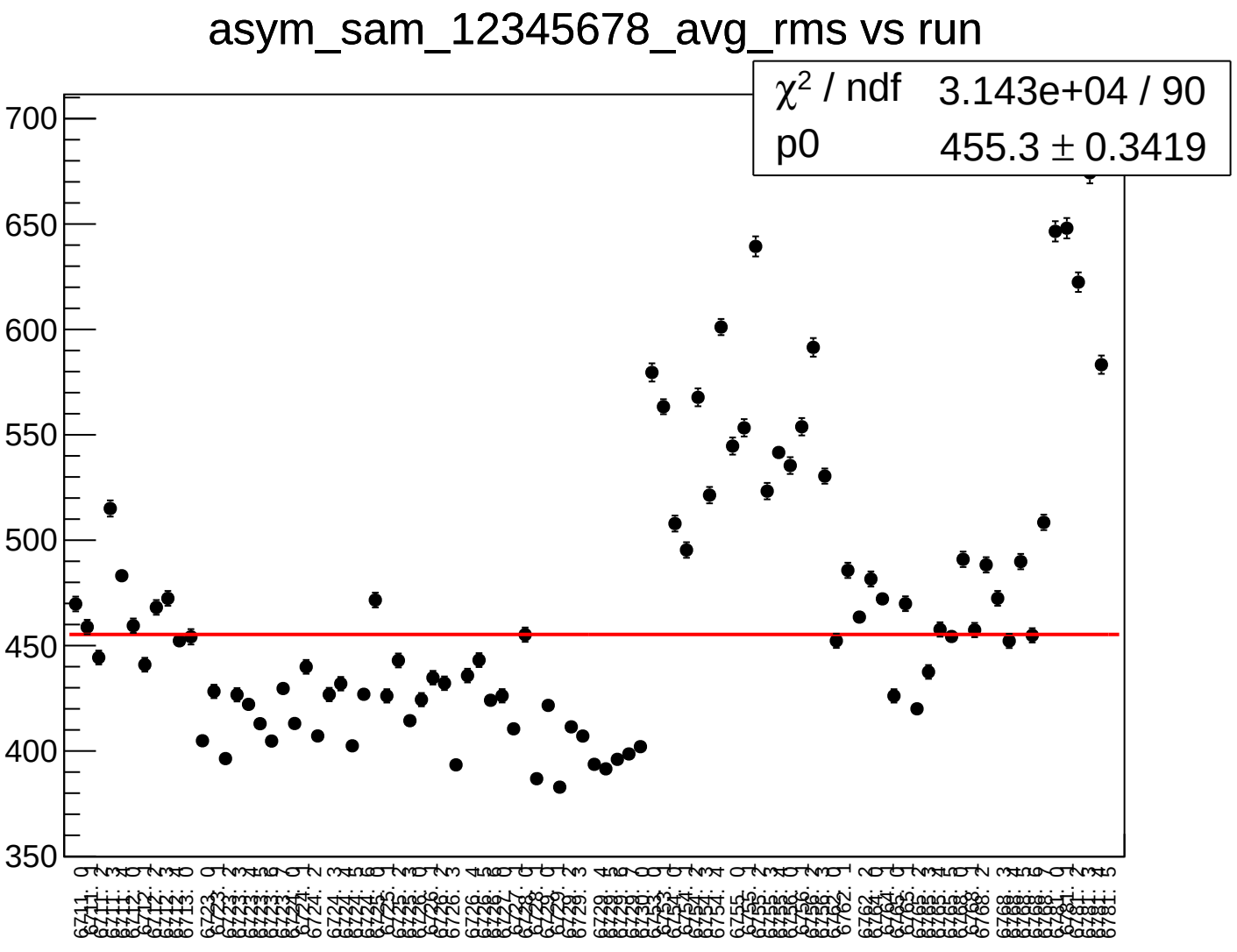

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 100.7 / 90
p0 −2.063 ± 486.2
pull
Entries 91
Mean 29.96
Std Dev 58.25

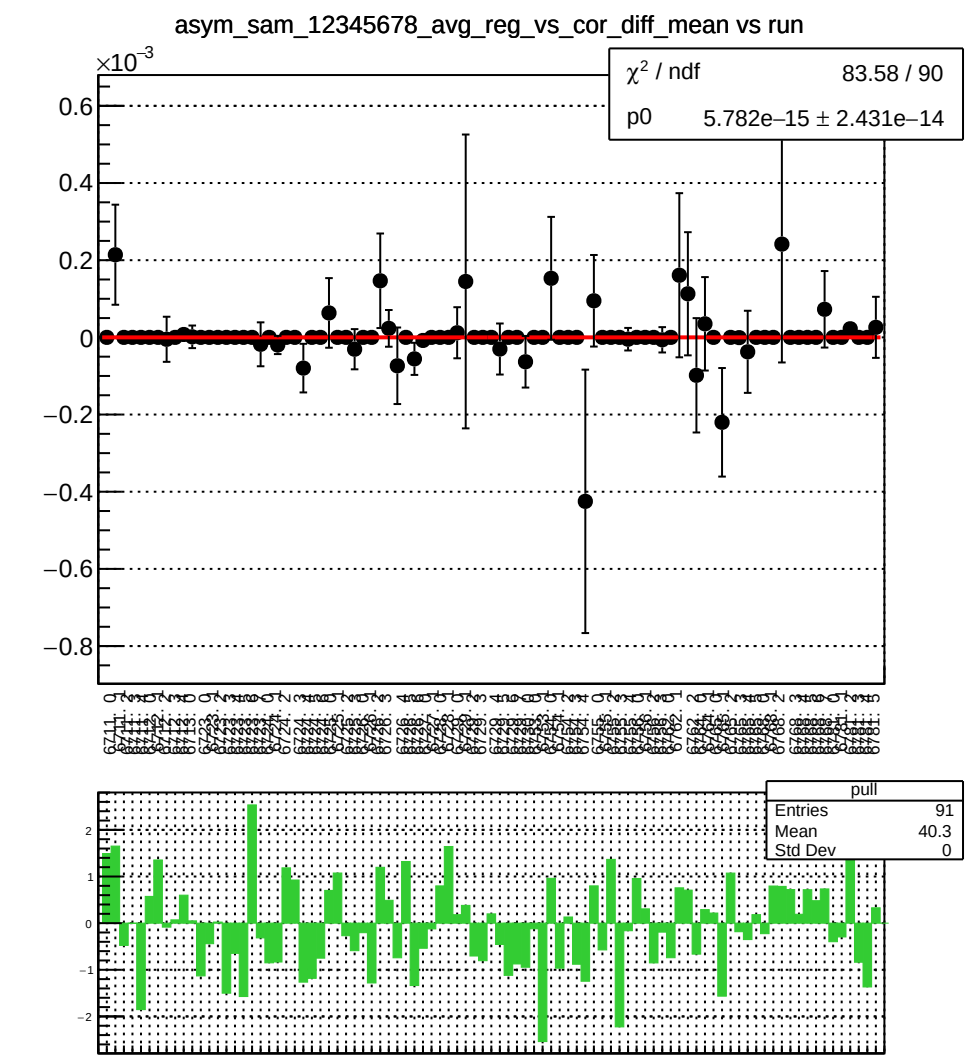

pull1D
Entries 91
Mean 0.02476
Std Dev 1.052

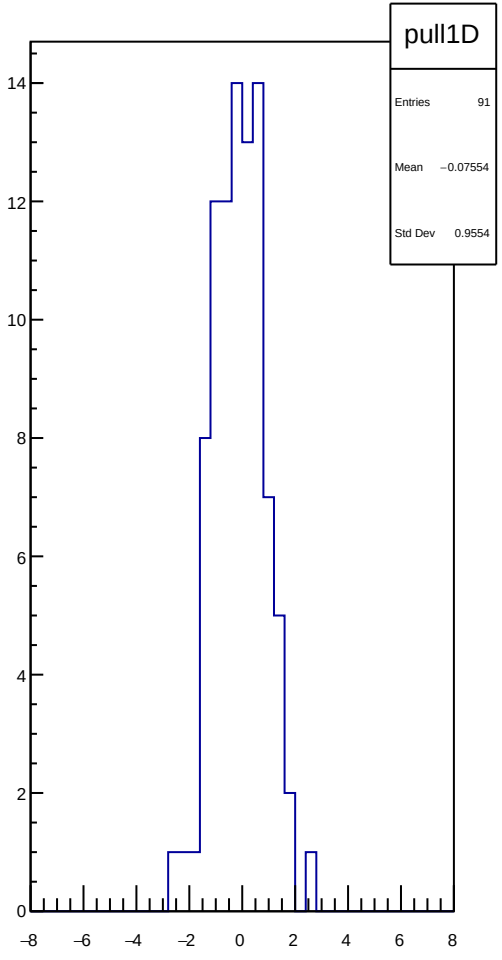

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 7.471e+04 / 90
p0 452.1 ± 0.3438
750
700
650
600
550
500
450
400
350

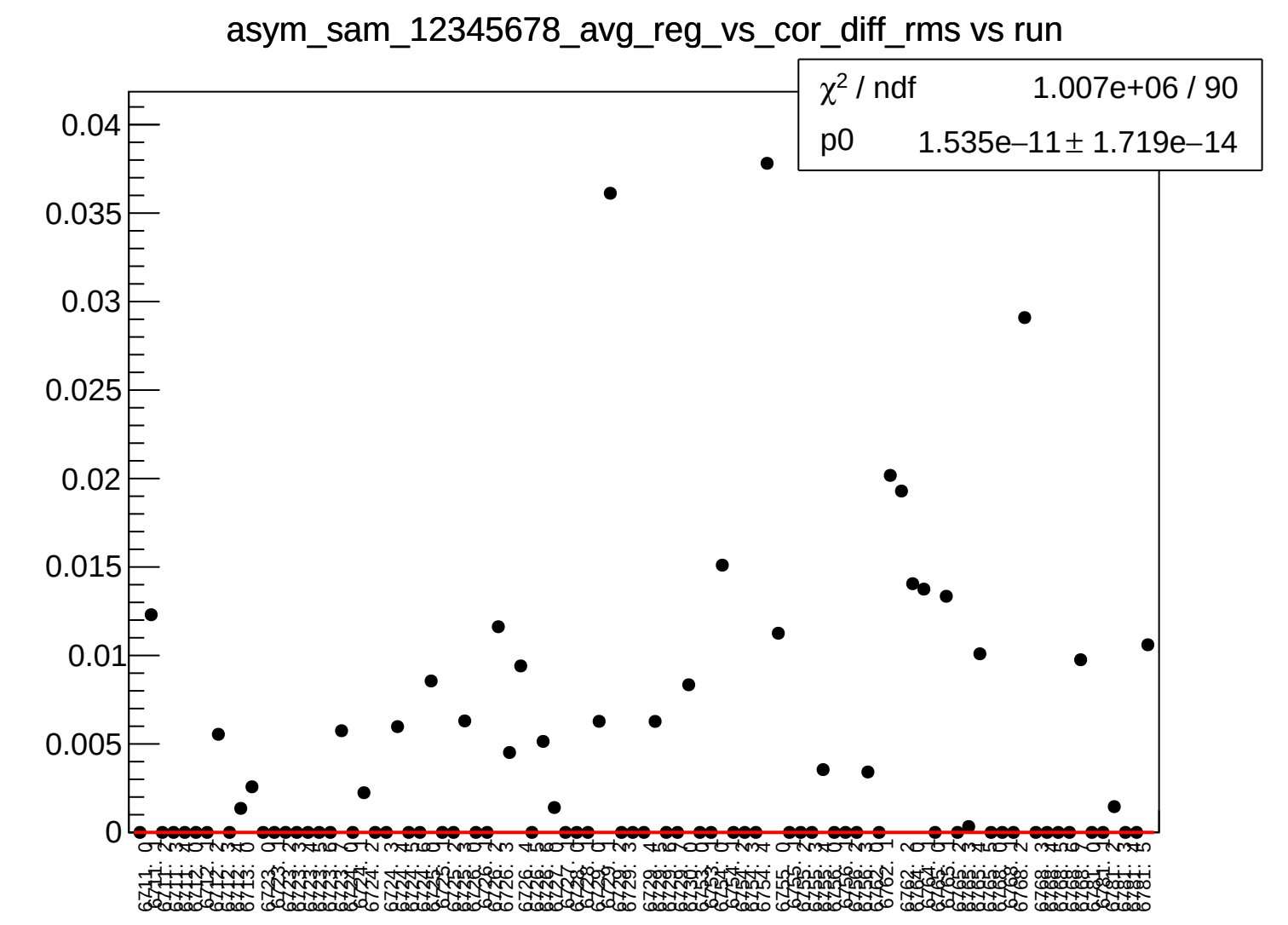

asym_sam_12345678_avg_mean vs run
χ² / ndf 107.1 / 90
p0 −63.65 ± 483.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 91
Mean 27.93
Std Dev 59.65
2
1
0
−1
−2

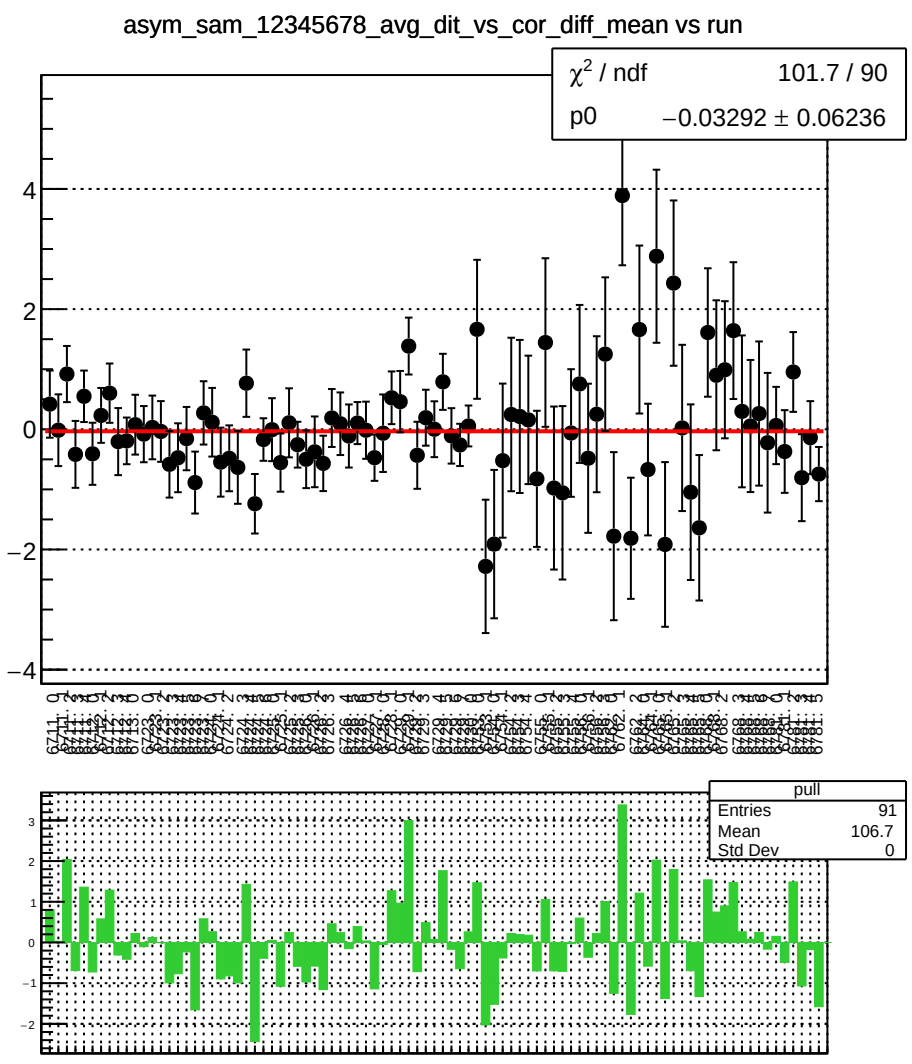

pull1D
Entries 91
Mean −0.01779
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

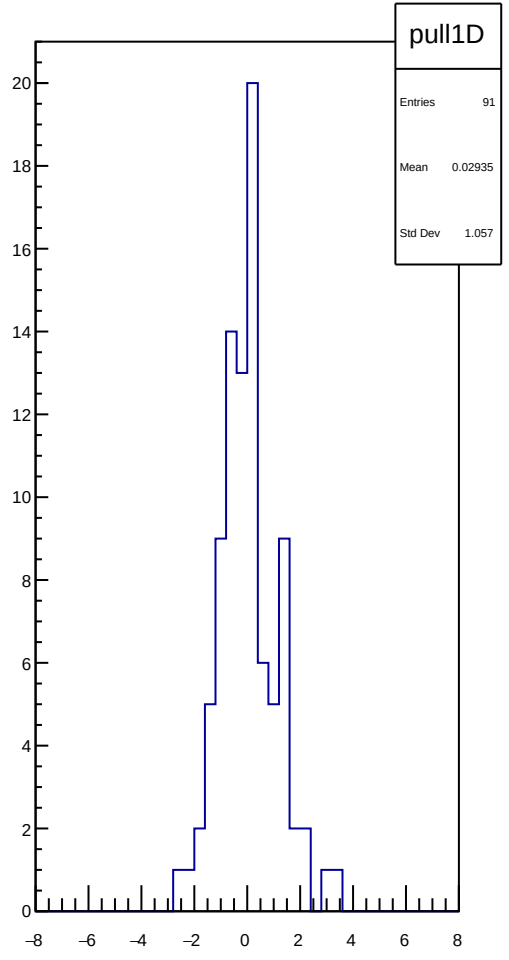

asym_sam_12345678_avg_rms vs run
χ² / ndf 3.143e+04 / 90
p0 455.3 ± 0.3419
700
650
600
550
500
450
400
350

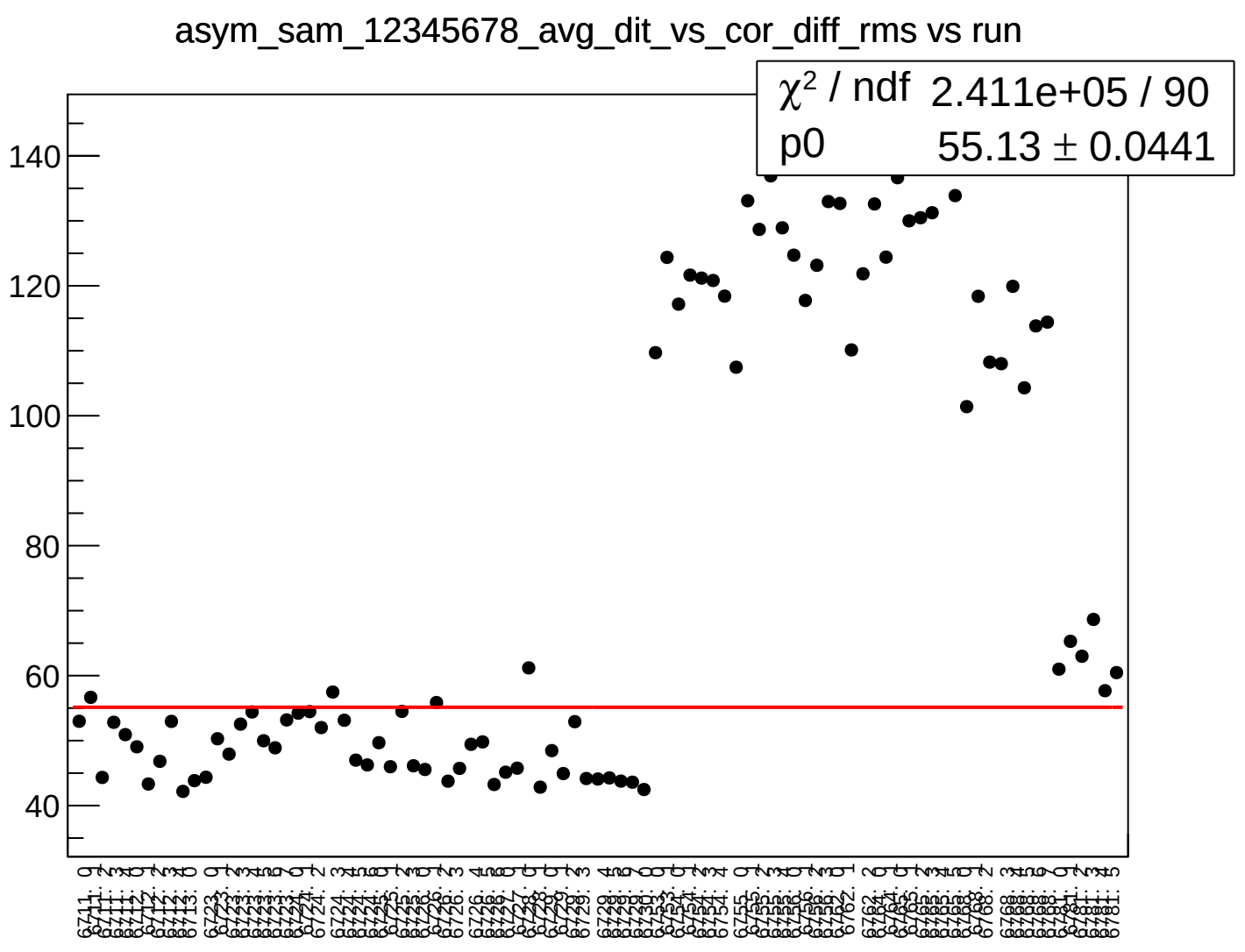

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 83.58 / 90
p0 5.782e−15 ± 2.431e−14
pull
Entries 91
Mean 40.3
Std Dev 0

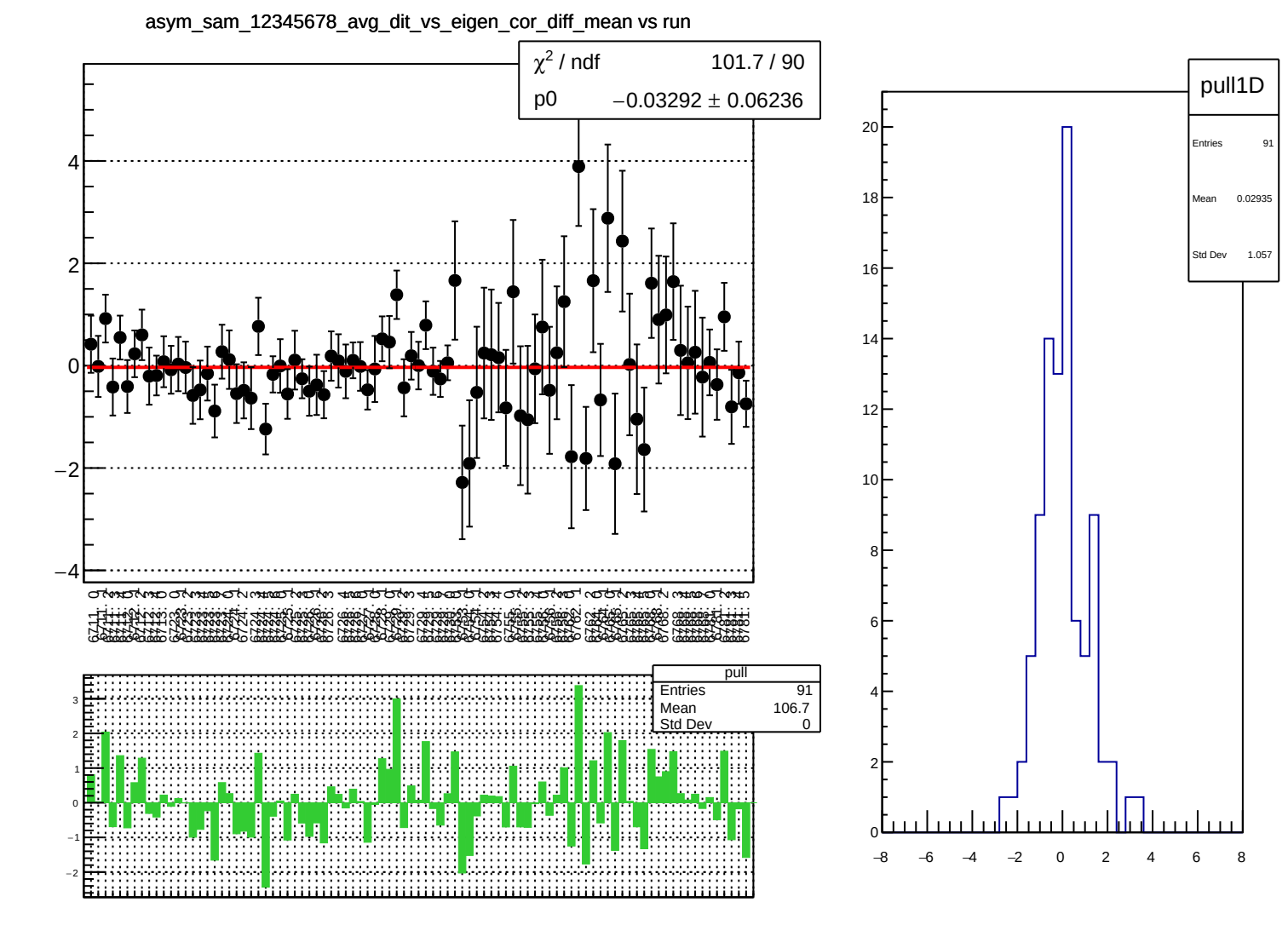

pull1D
Entries 91
Mean −0.07554
Std Dev 0.9554

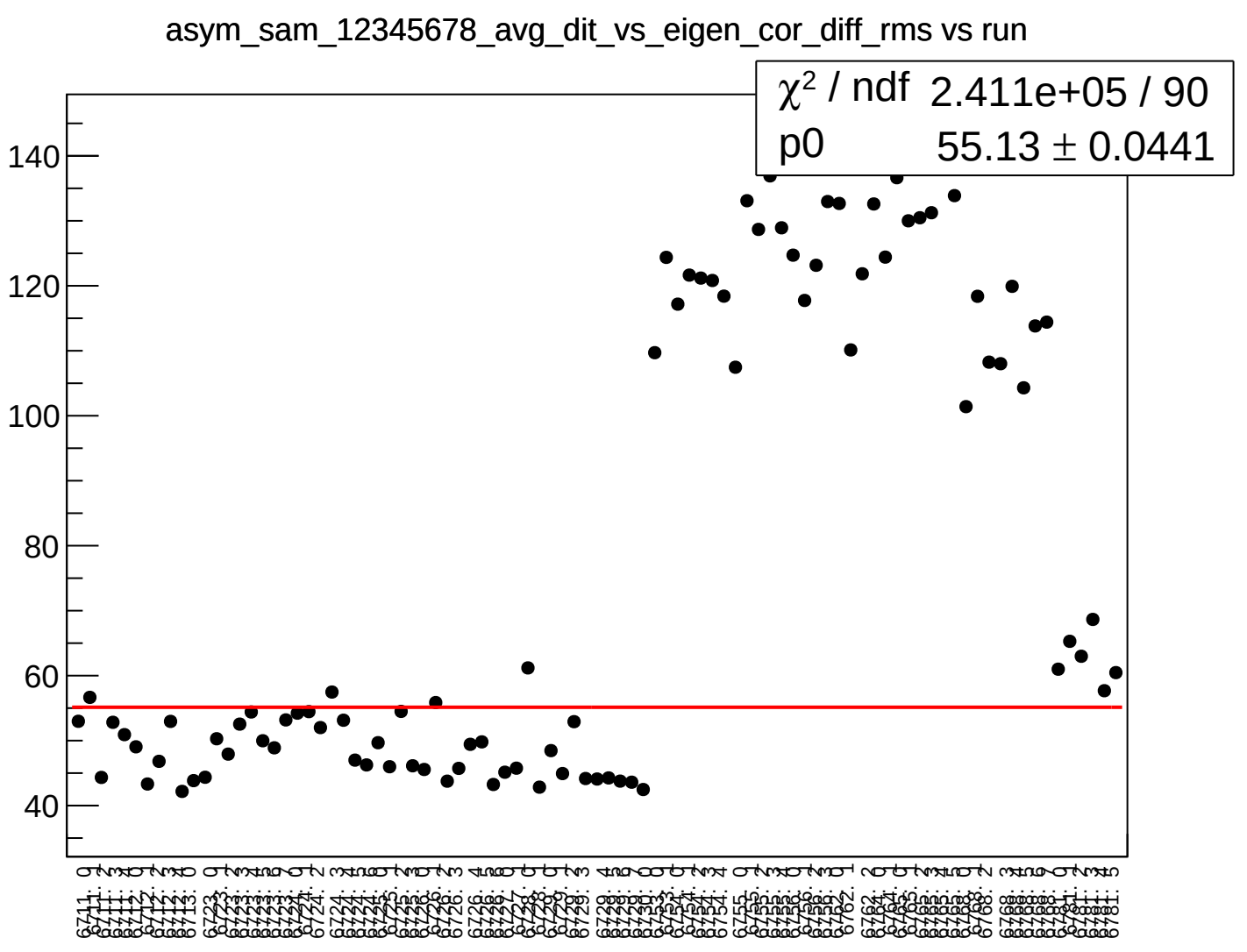

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.007e+06 / 90
p0 1.535e−11 ± 1.719e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

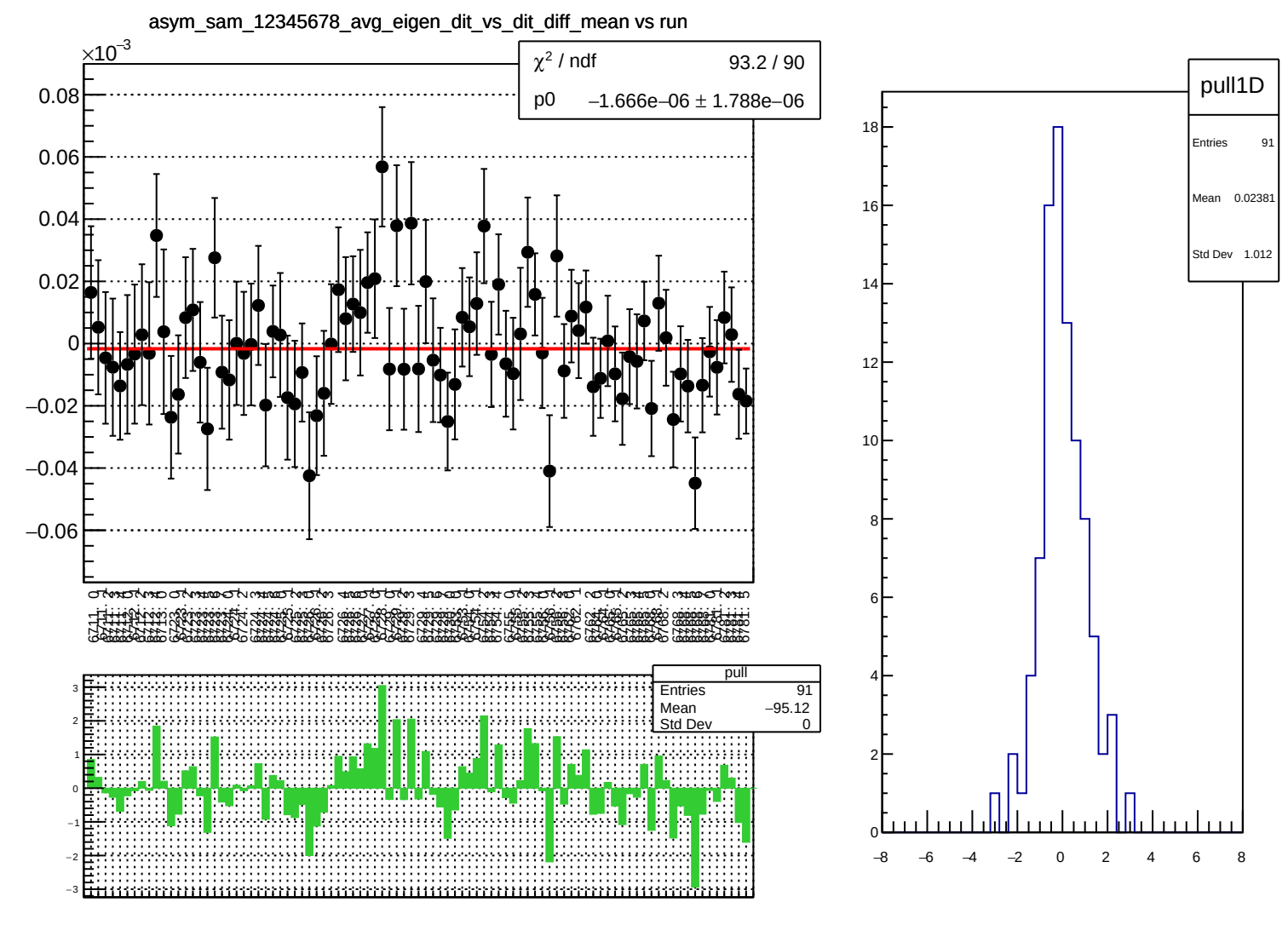

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 90
p0 −0.03292 ± 0.06236
pull
Entries 91
Mean 106.7
Std Dev 0

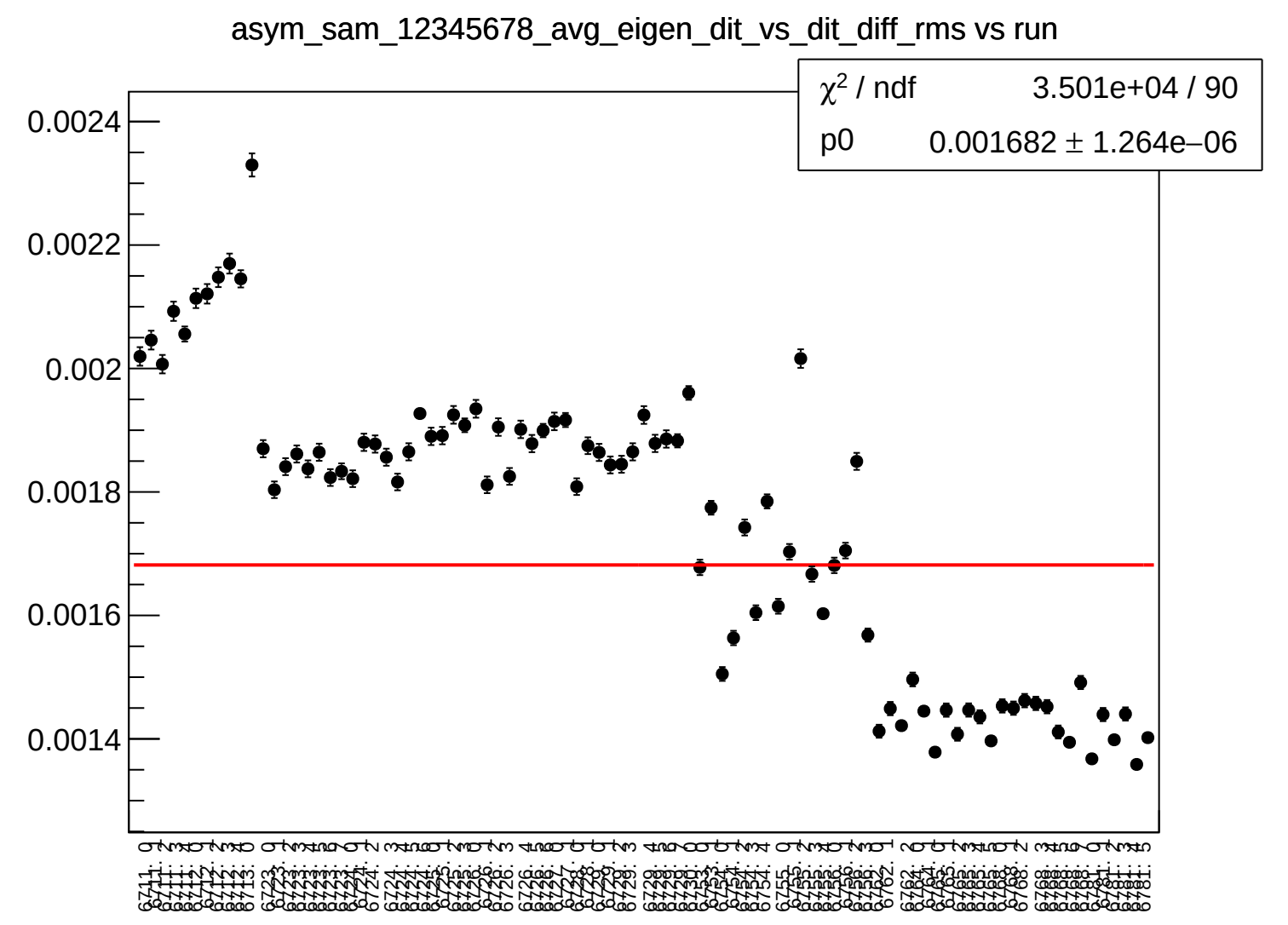

pull1D
Entries 91
Mean 0.02935
Std Dev 1.057

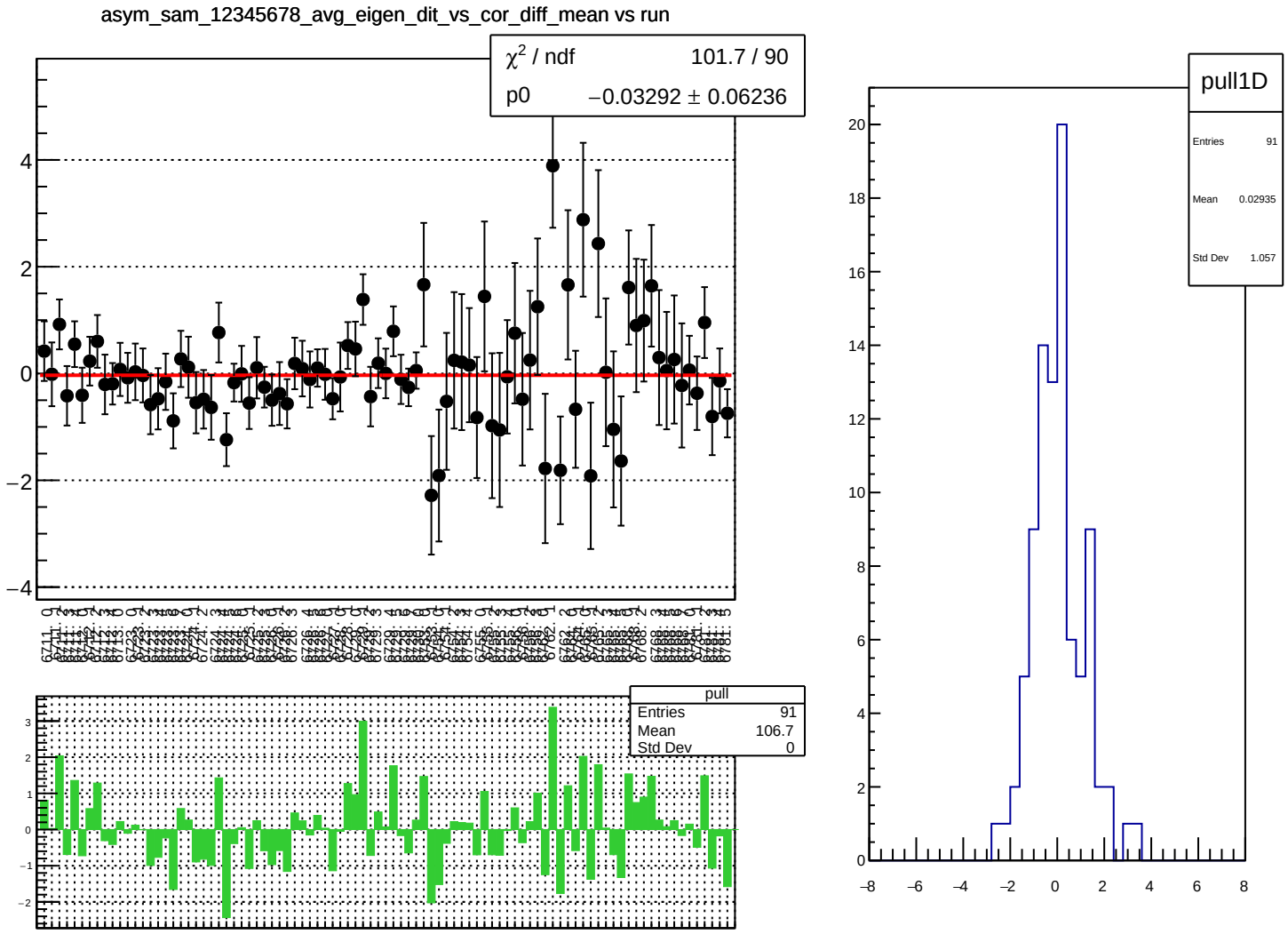

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.411e+05 / 90
p0 55.13 ± 0.0441
140
120
100
80
60
40

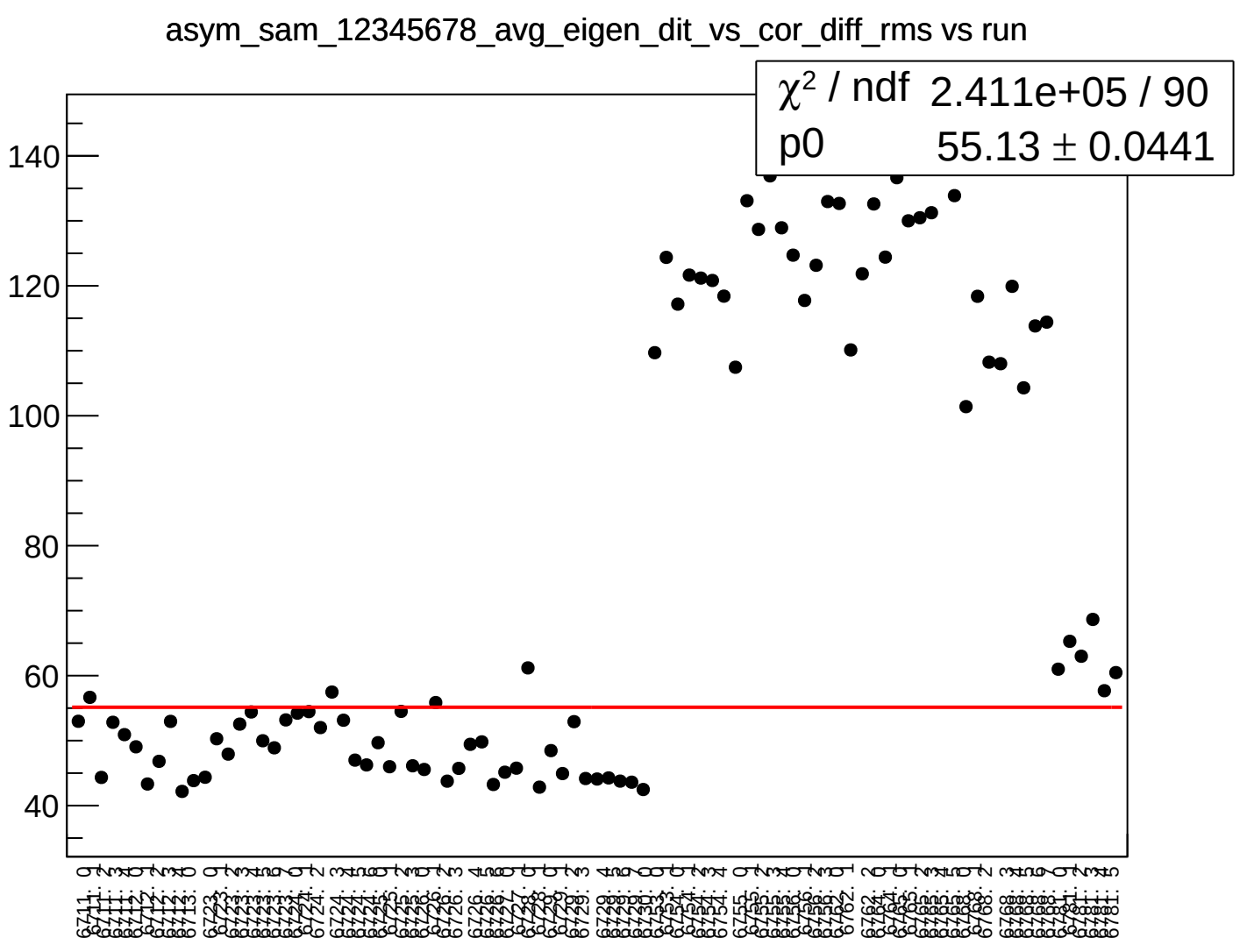

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 90
p0 −0.03292 ± 0.06236
pull
Entries 91
Mean 106.7
Std Dev 0
pull1D
Entries 91
Mean 0.02935
Std Dev 1.057

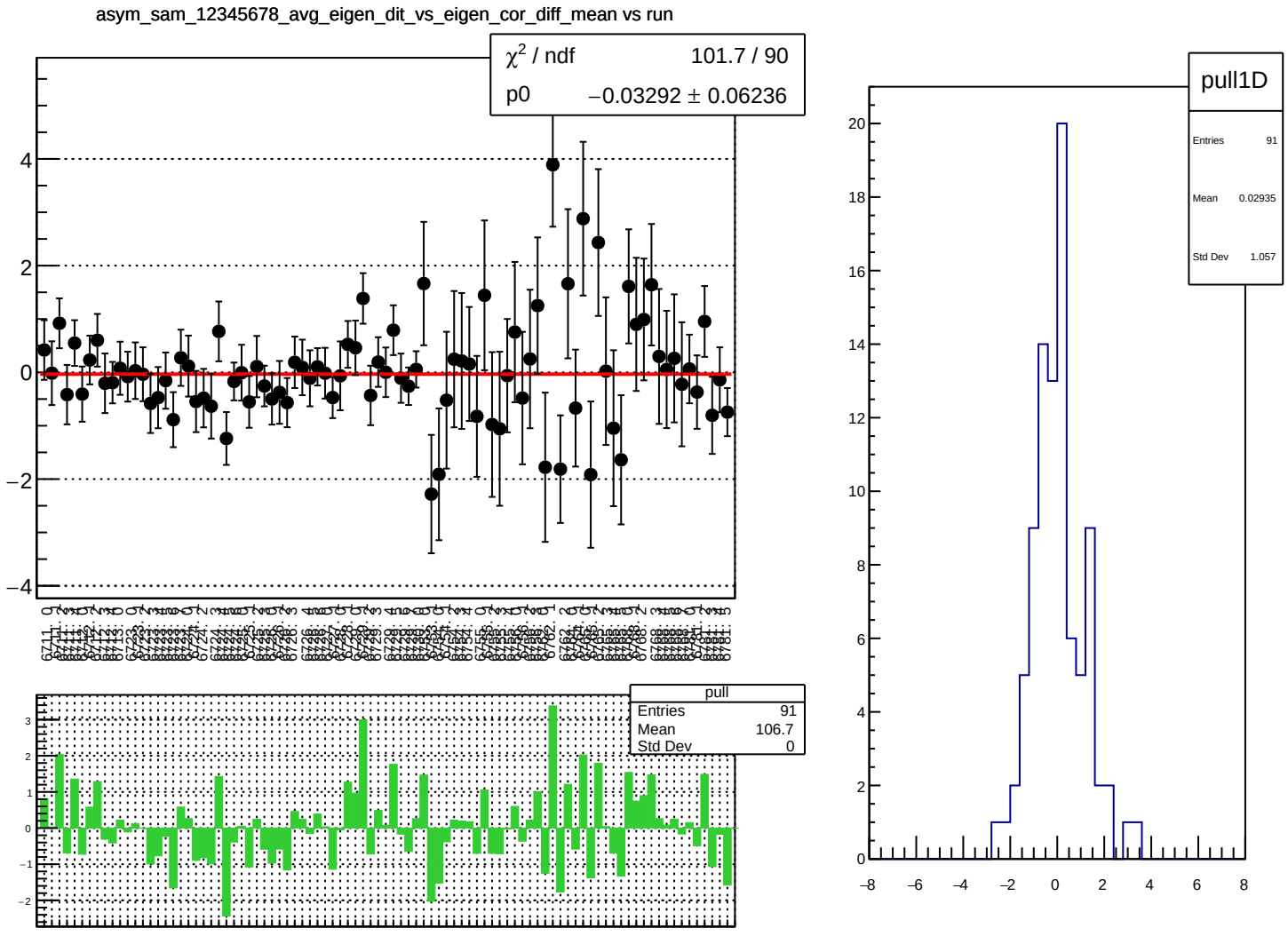

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.411e+05 / 90
p0 55.13 ± 0.0441
140
120
100
80
60
40

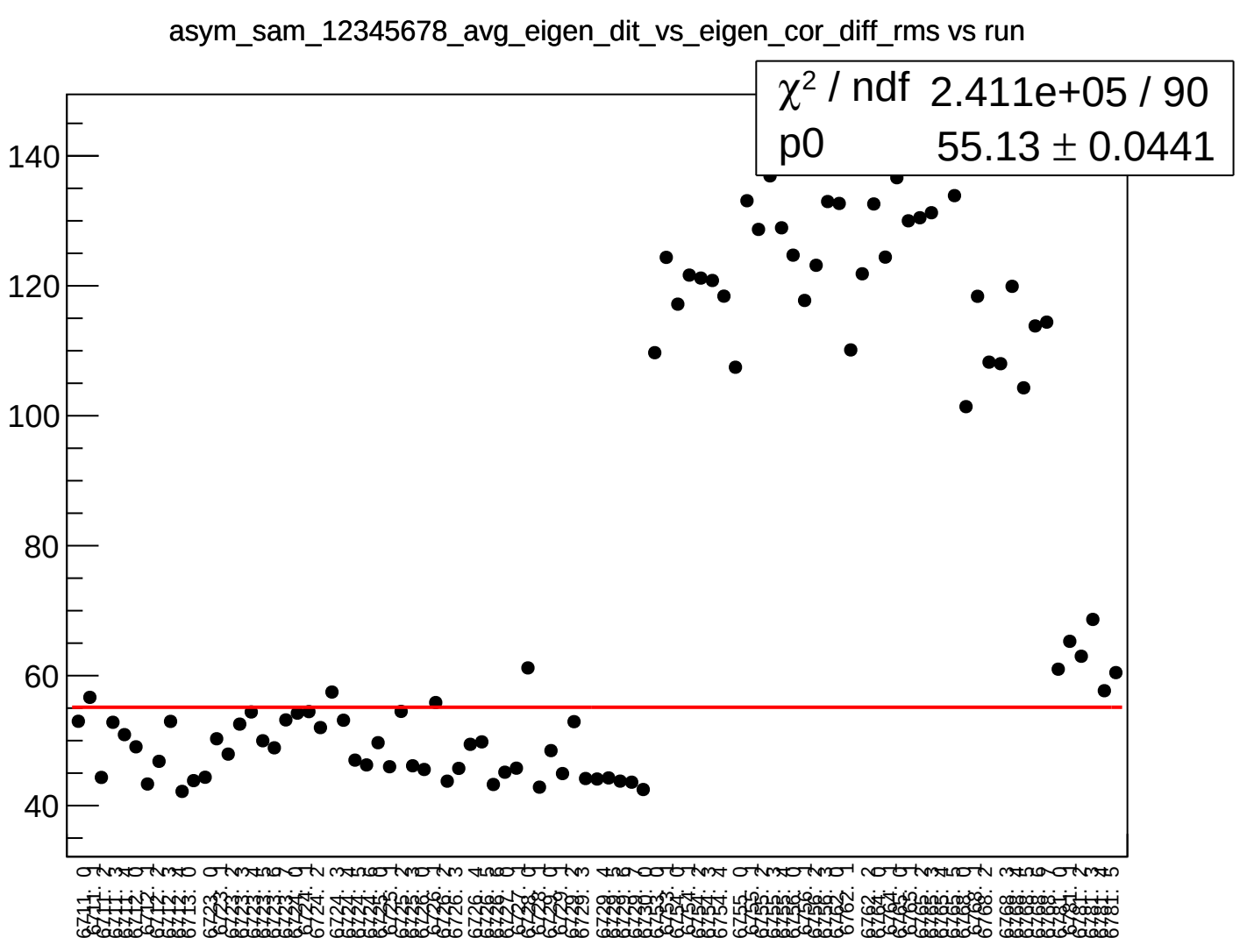

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.2 / 90
p0 −1.666e−06 ± 1.788e−06
pull
Entries 91
Mean −95.12
Std Dev 0
pull1D
Entries 91
Mean 0.02381
Std Dev 1.012

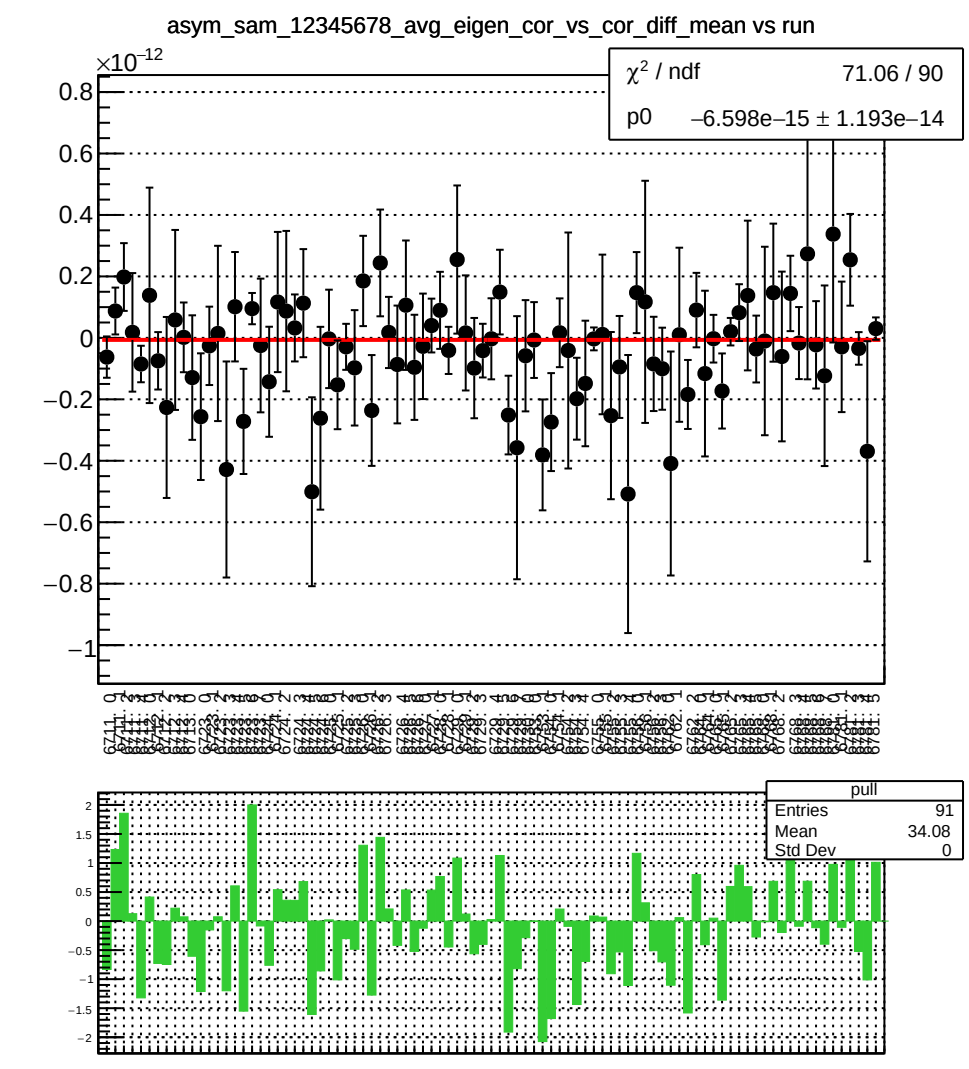

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.501e+04 / 90
p0 0.001682 ± 1.264e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

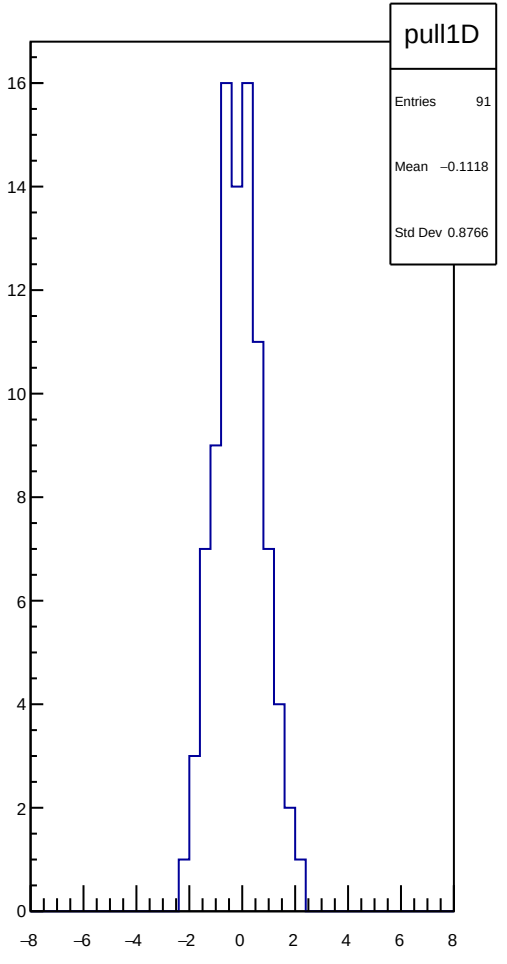

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 90
p0 −0.03292 ± 0.06236
pull
Entries 91
Mean 106.7
Std Dev 0
pull1D
Entries 91
Mean 0.02935
Std Dev 1.057

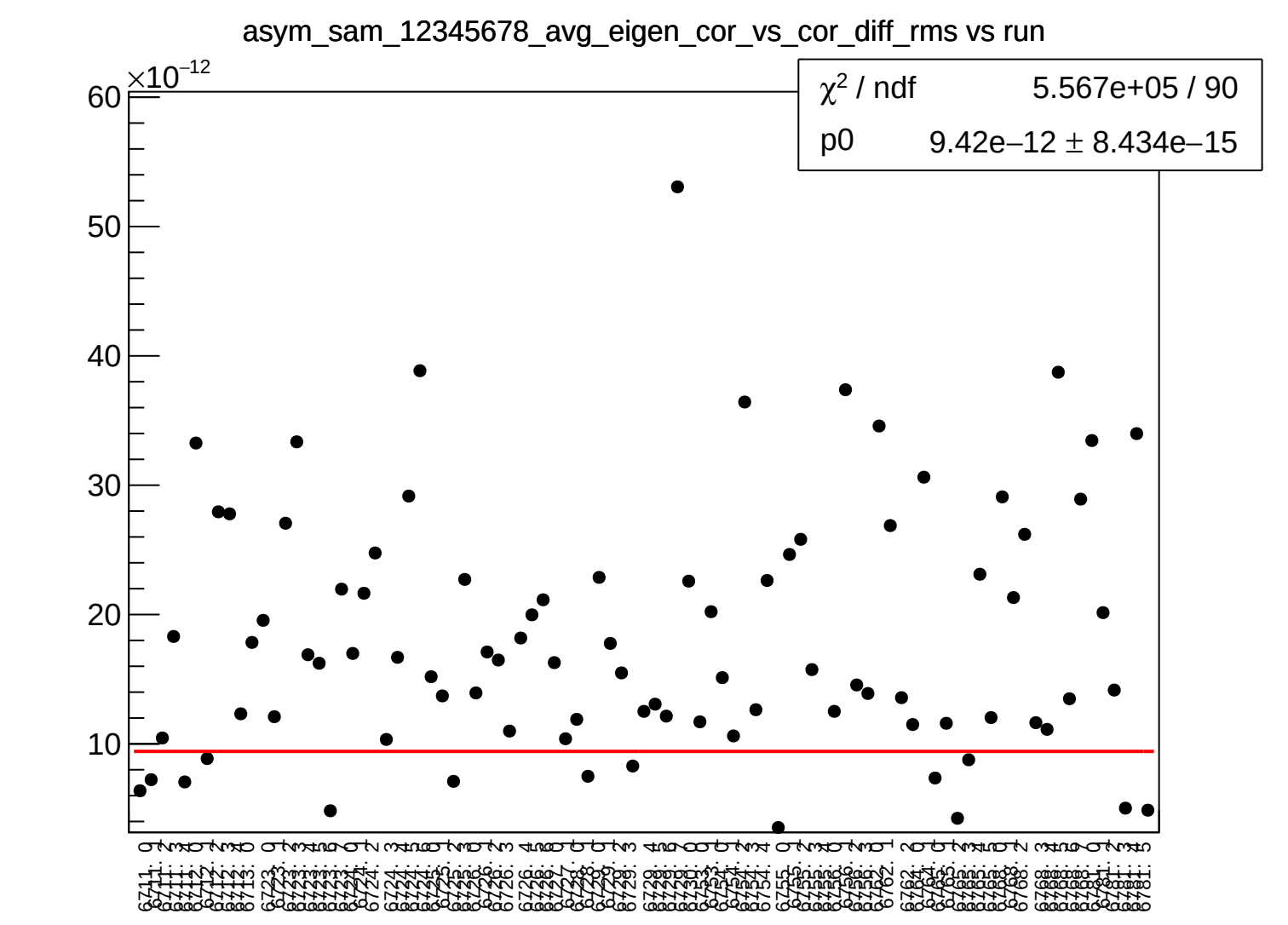

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.411e+05 / 90
p0 55.13 ± 0.0441
140
120
100
80
60
40

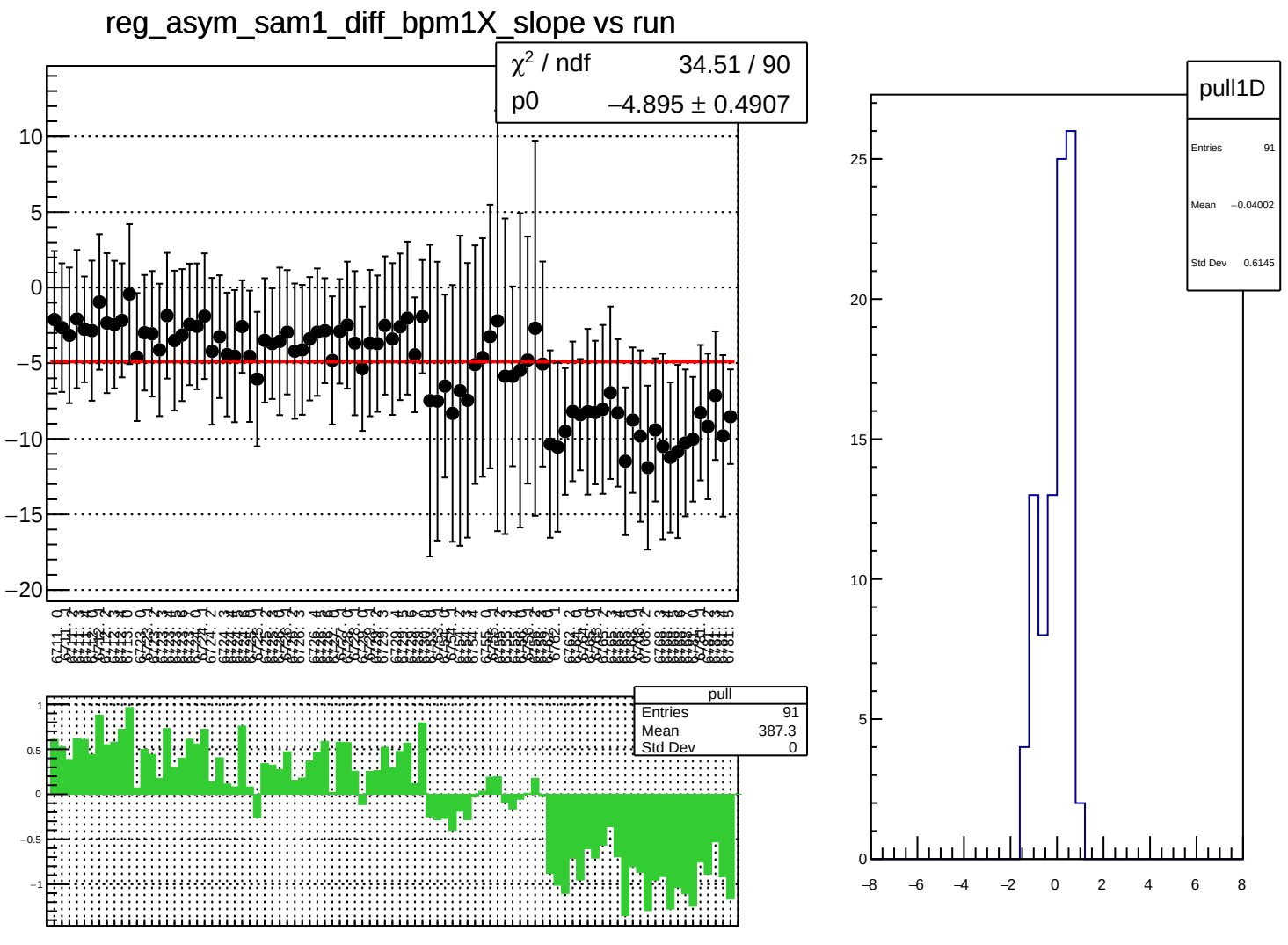

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 90
p0 −0.03292 ± 0.06236
pull
Entries 91
Mean 106.7
Std Dev 0
pull1D
Entries 91
Mean 0.02935
Std Dev 1.057

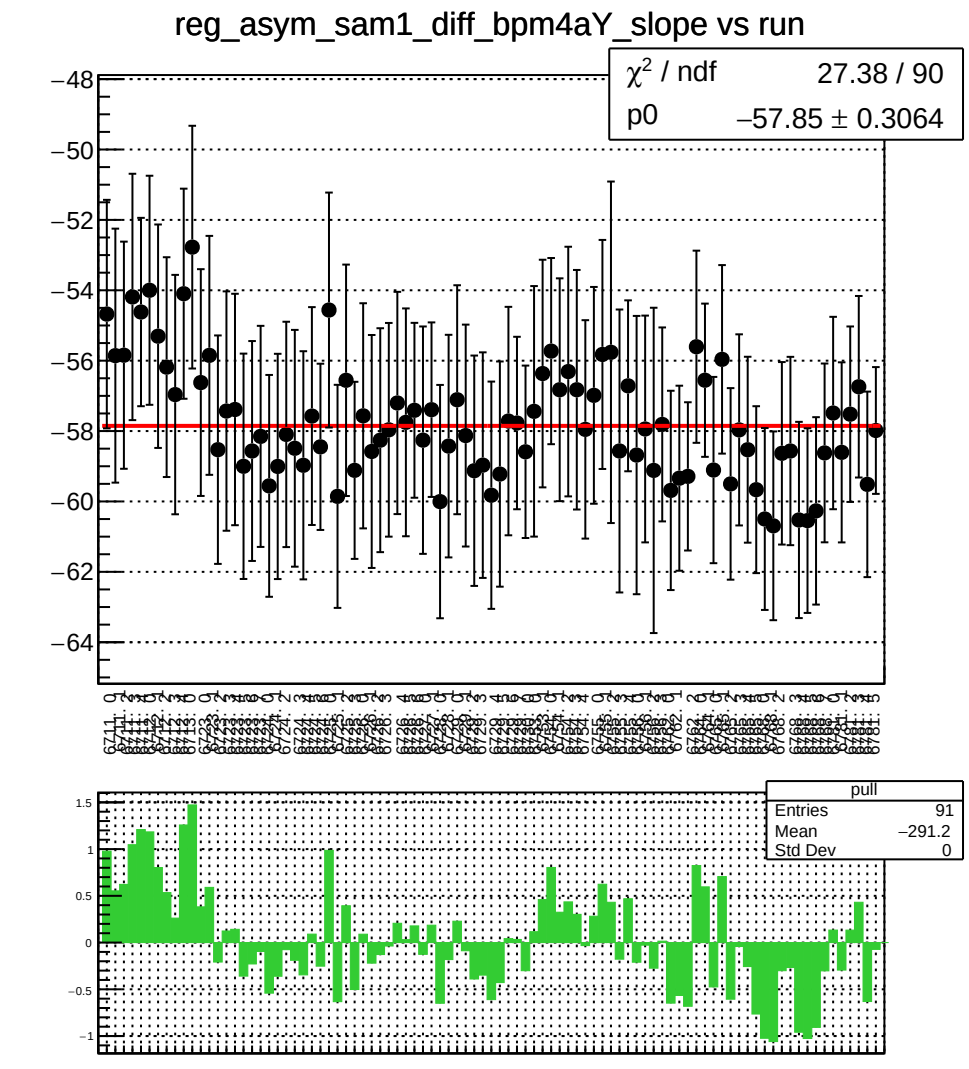

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.411e+05 / 90
p0 55.13 ± 0.0441
140
120
100
80
60
40

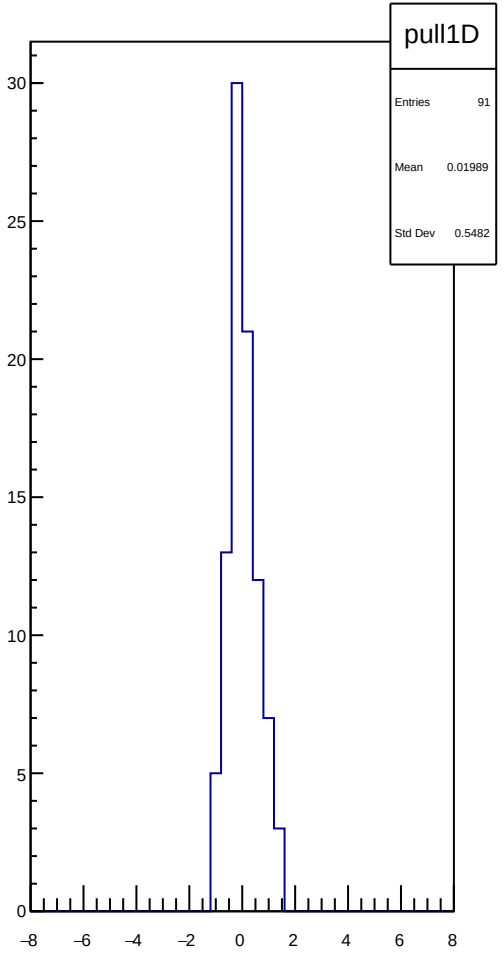

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 71.06 / 90
p0 −6.598e−15 ± 1.193e−14
pull
Entries 91
Mean 34.08
Std Dev 0

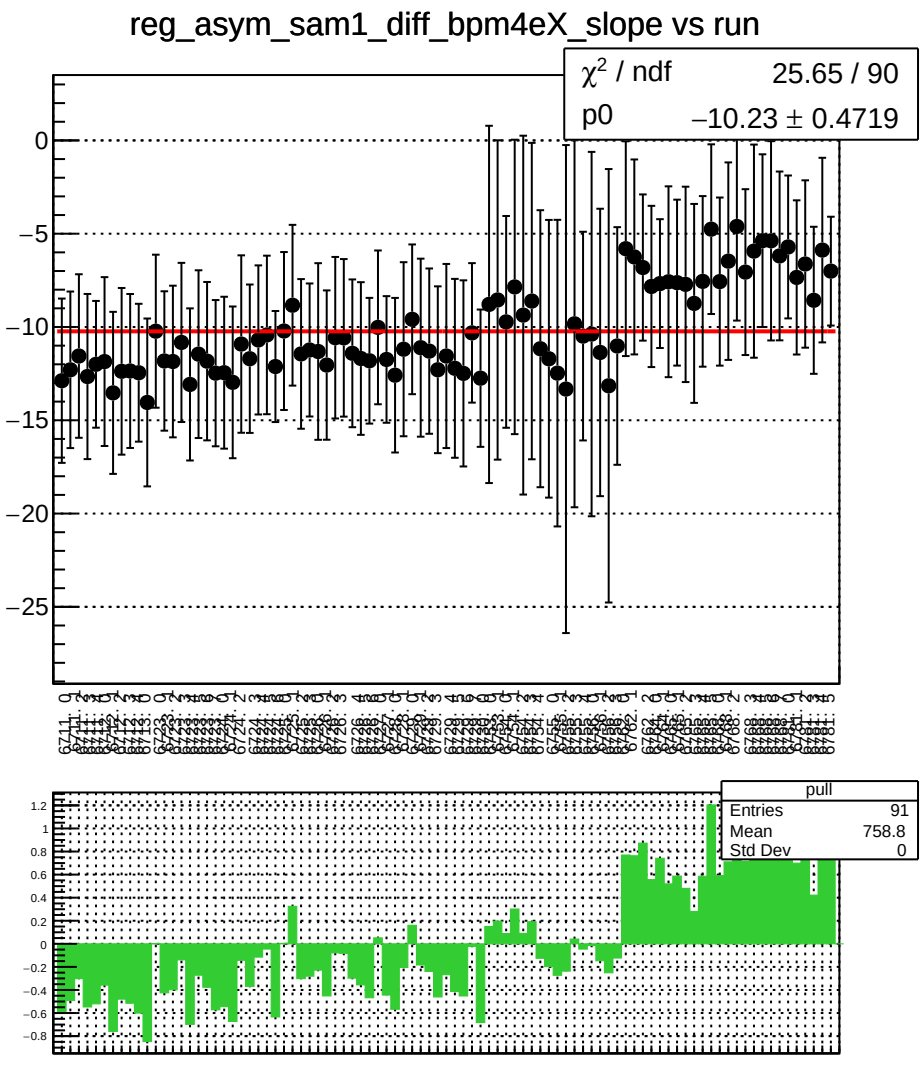

pull1D
Entries 91
Mean −0.1118
Std Dev 0.8766

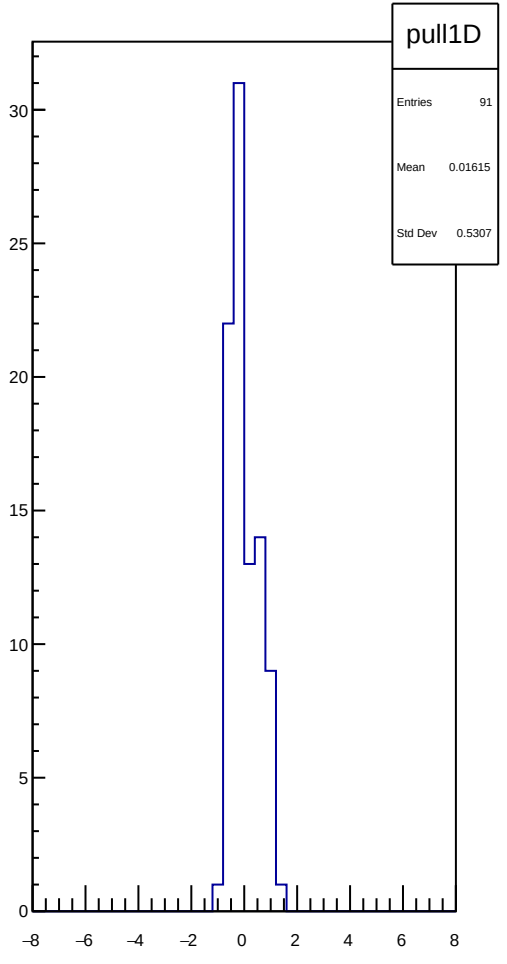

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 5.567e+05 / 90
p0 9.42e−12 ± 8.434e−15

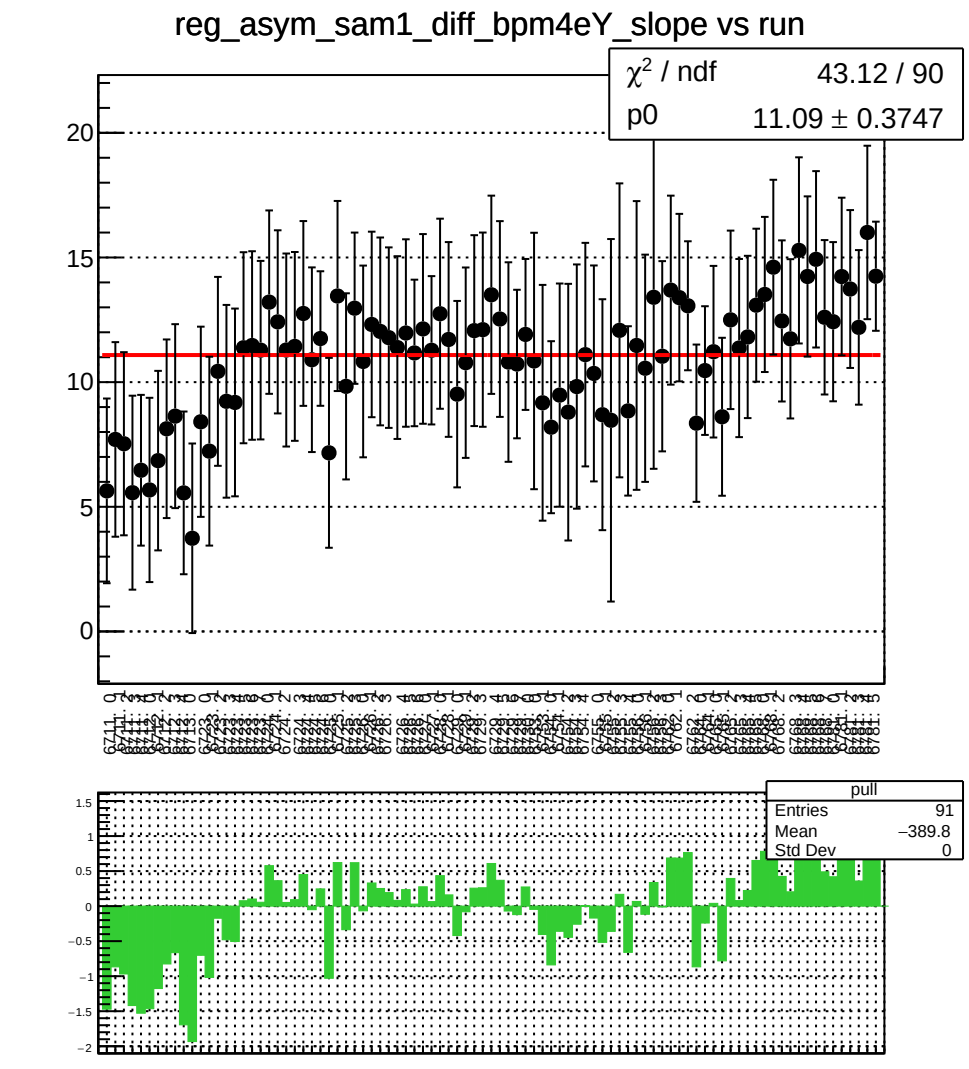

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 34.51 / 90
p0 −4.895 ± 0.4907
pull
Entries 91
Mean 387.3
Std Dev 0
pull1D
Entries 91
Mean −0.04002
Std Dev 0.6145

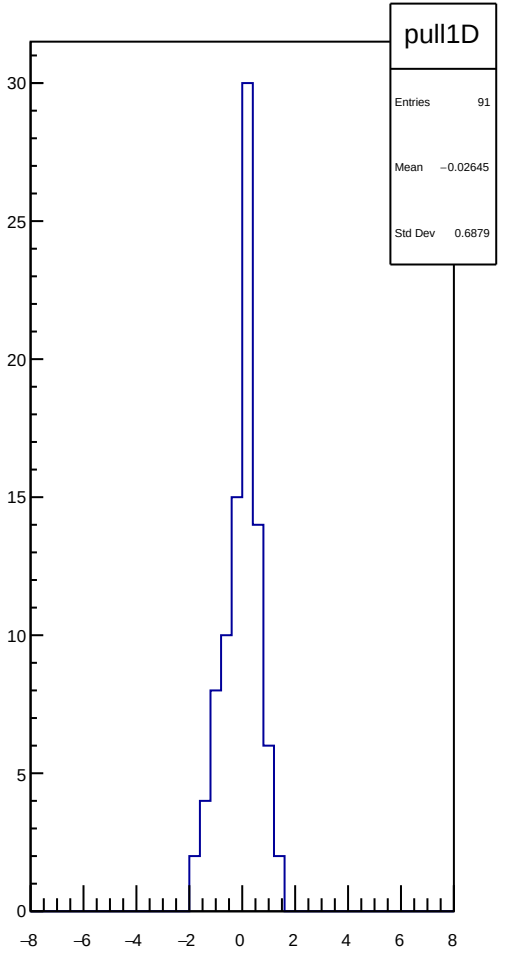

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 27.38 / 90
p0 −57.85 ± 0.3064
pull
Entries 91
Mean −291.2
Std Dev 0

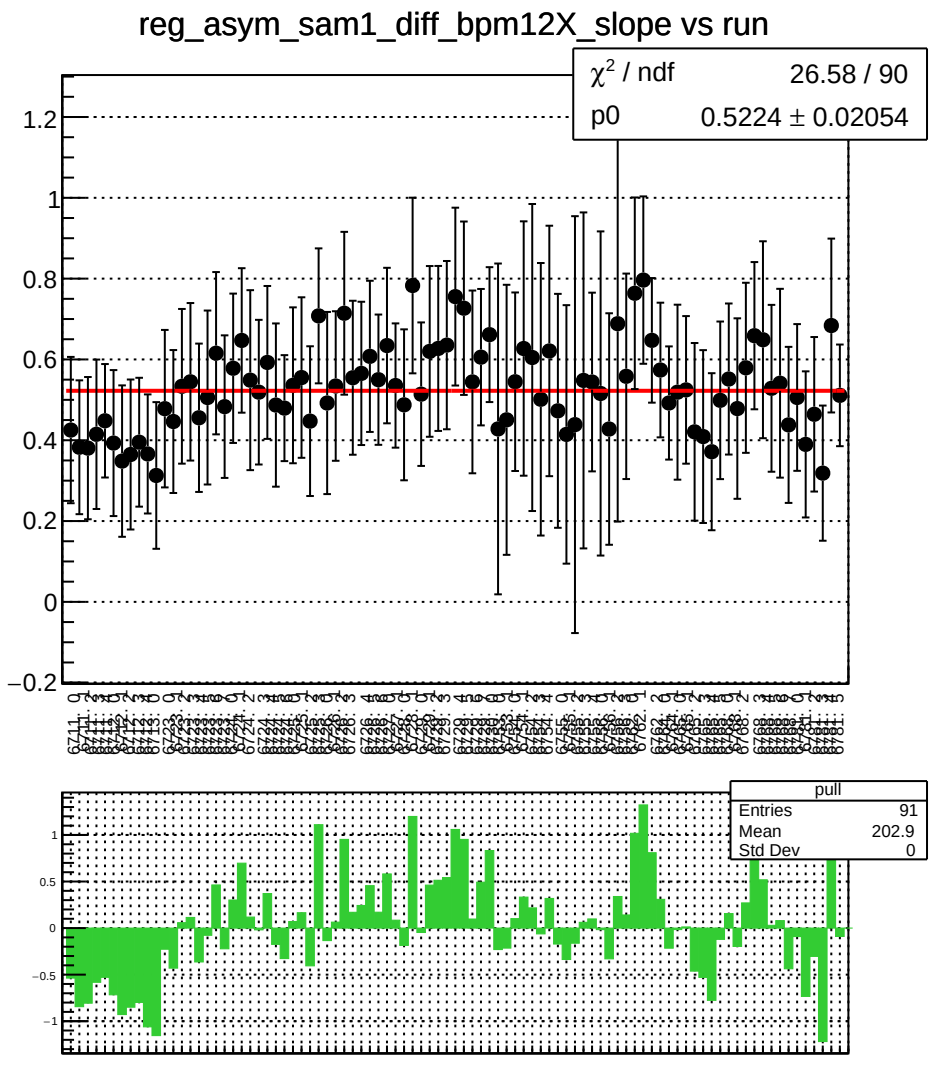

pull1D
Entries 91
Mean 0.01989
Std Dev 0.5482

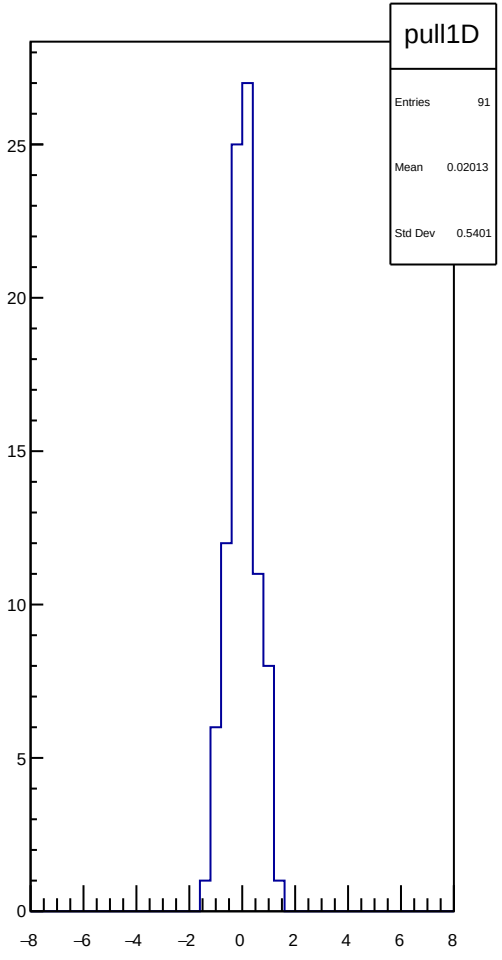

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 25.65 / 90
p0 −10.23 ± 0.4719
pull
Entries 91
Mean 758.8
Std Dev 0

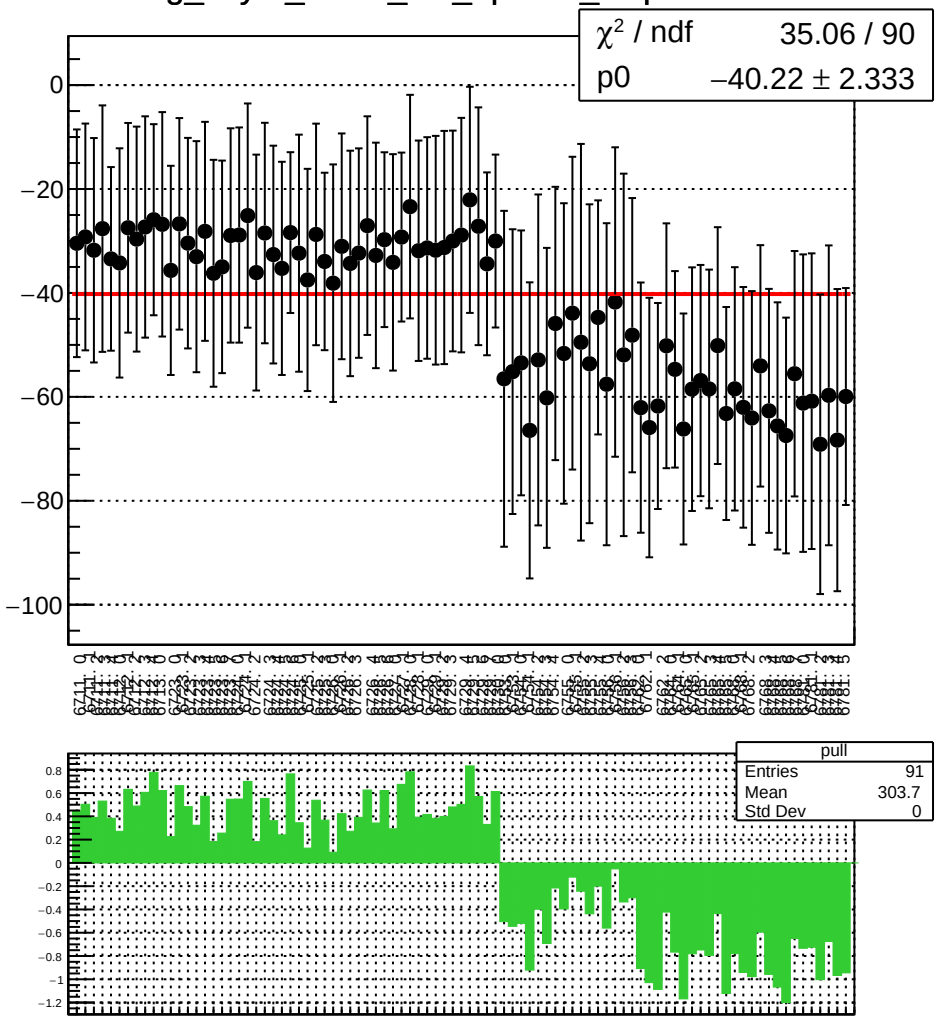

pull1D
Entries 91
Mean 0.01615
Std Dev 0.5307

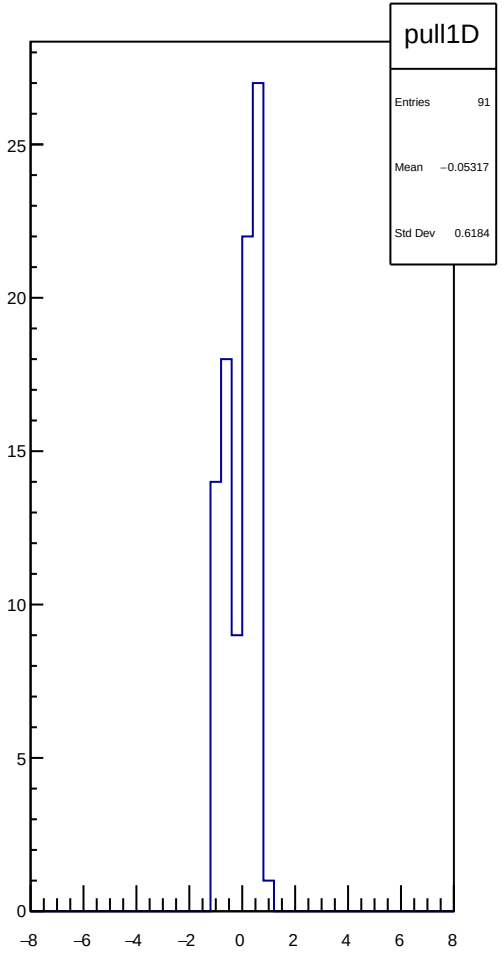

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 43.12 / 90
p0 11.09 ± 0.3747
pull
Entries 91
Mean −389.8
Std Dev 0

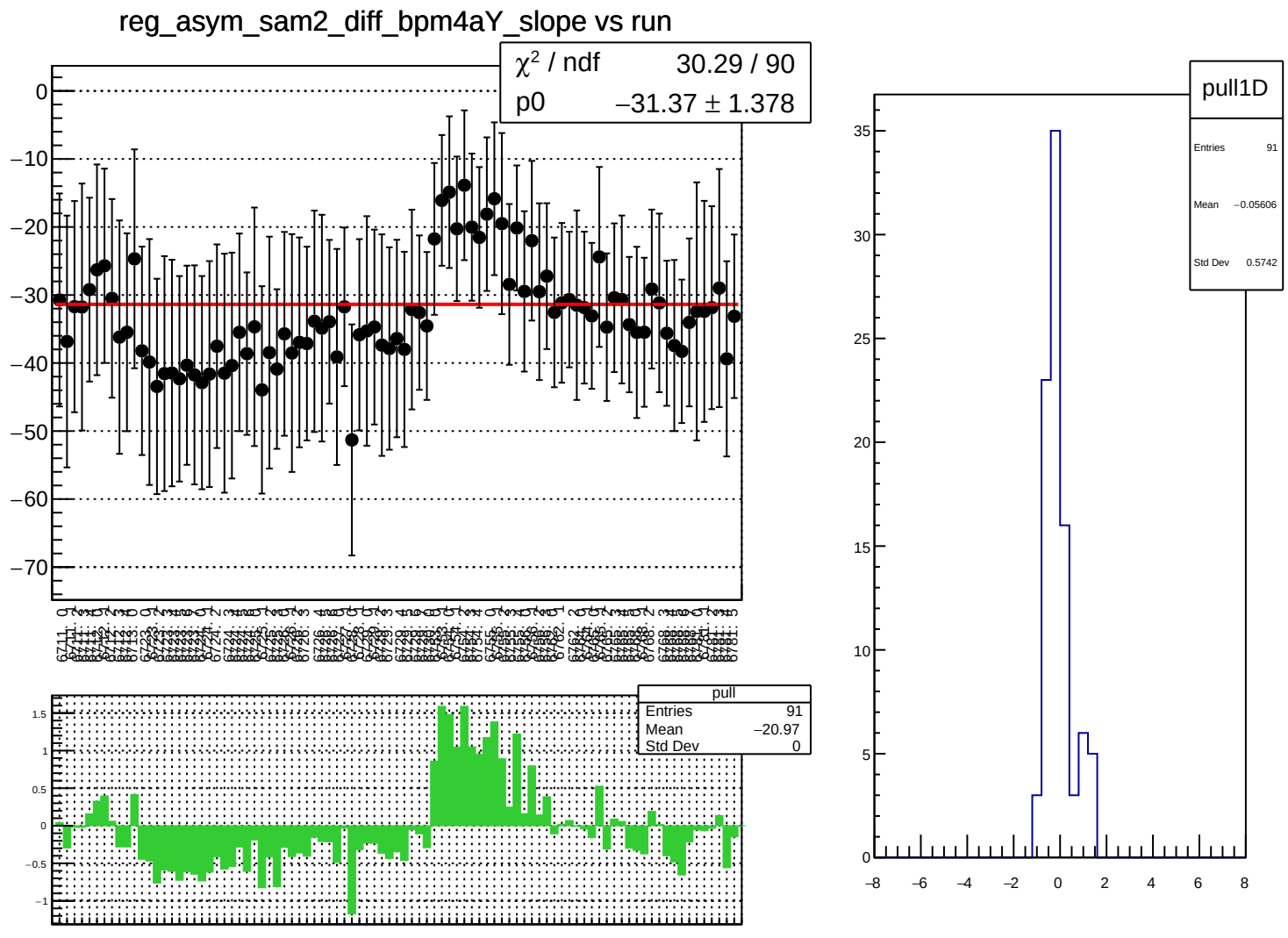

pull1D
Entries 91
Mean −0.02645
Std Dev 0.6879

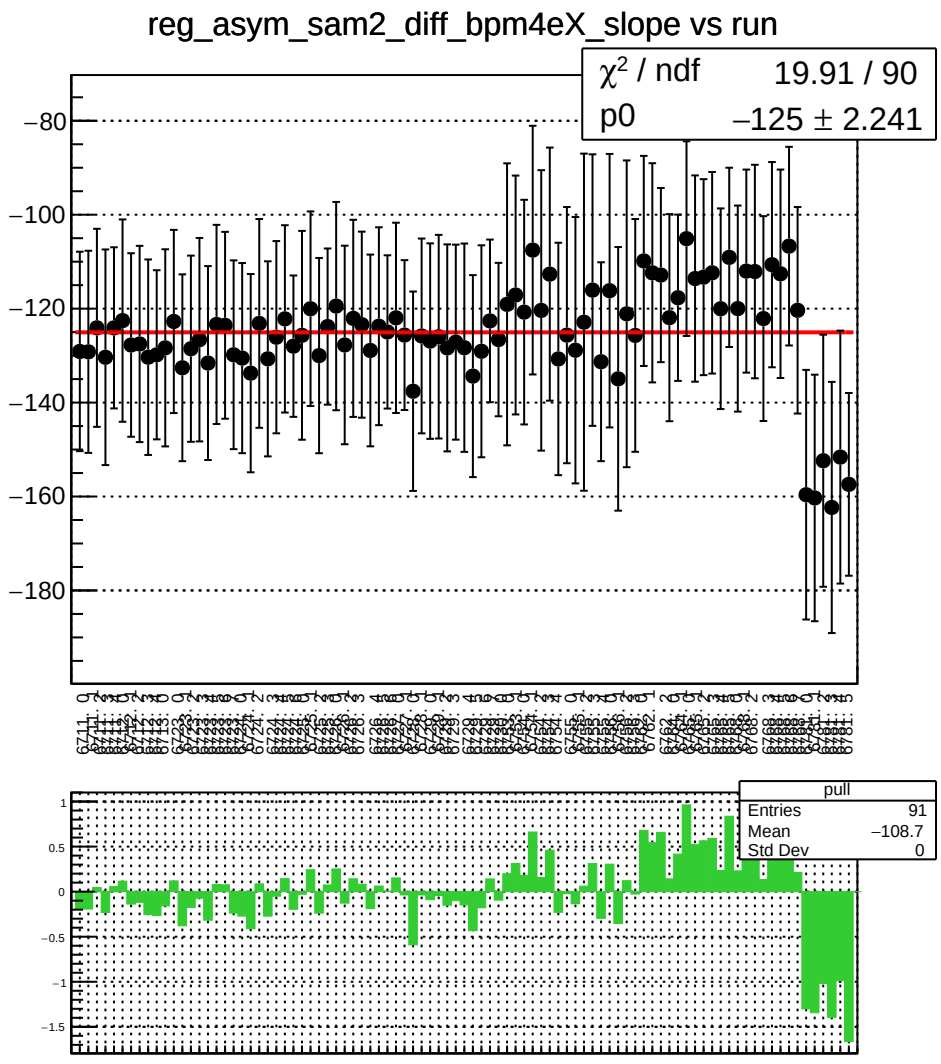

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 26.58 / 90
p0 0.5224 ± 0.02054
pull
Entries 91
Mean 202.9
Std Dev 0

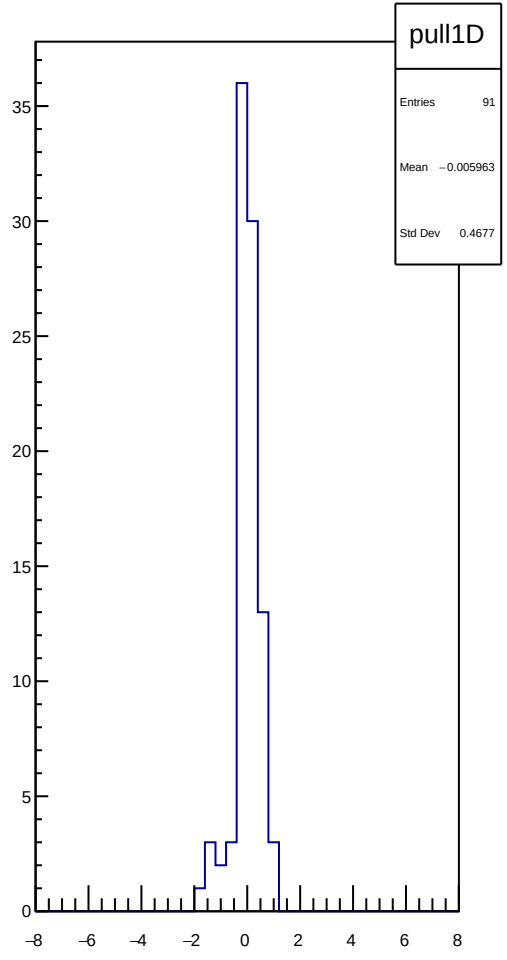

pull1D
Entries 91
Mean 0.02013
Std Dev 0.5401

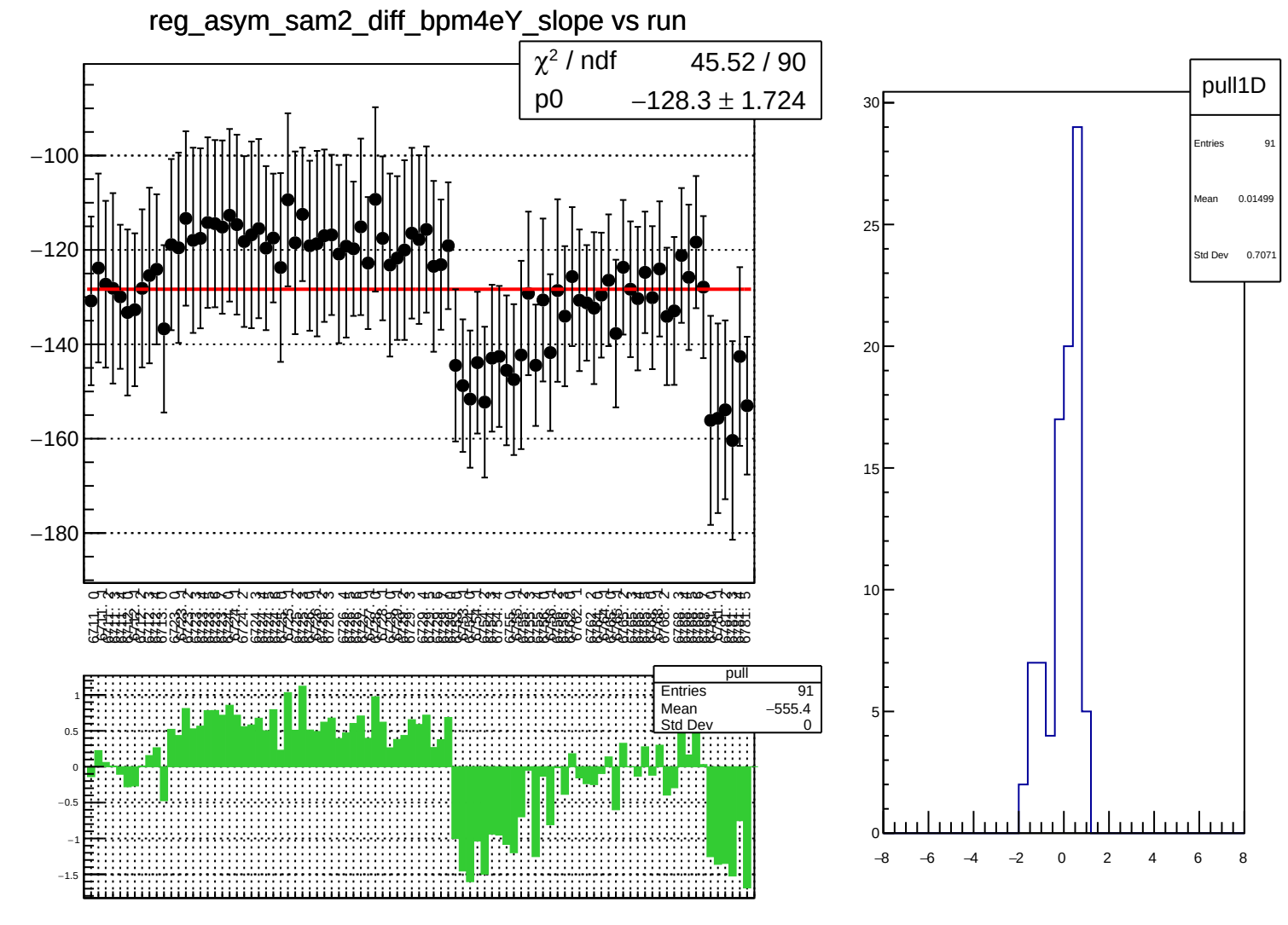

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 35.06 / 90
p0 −40.22 ± 2.333
pull
Entries 91
Mean 303.7
Std Dev 0

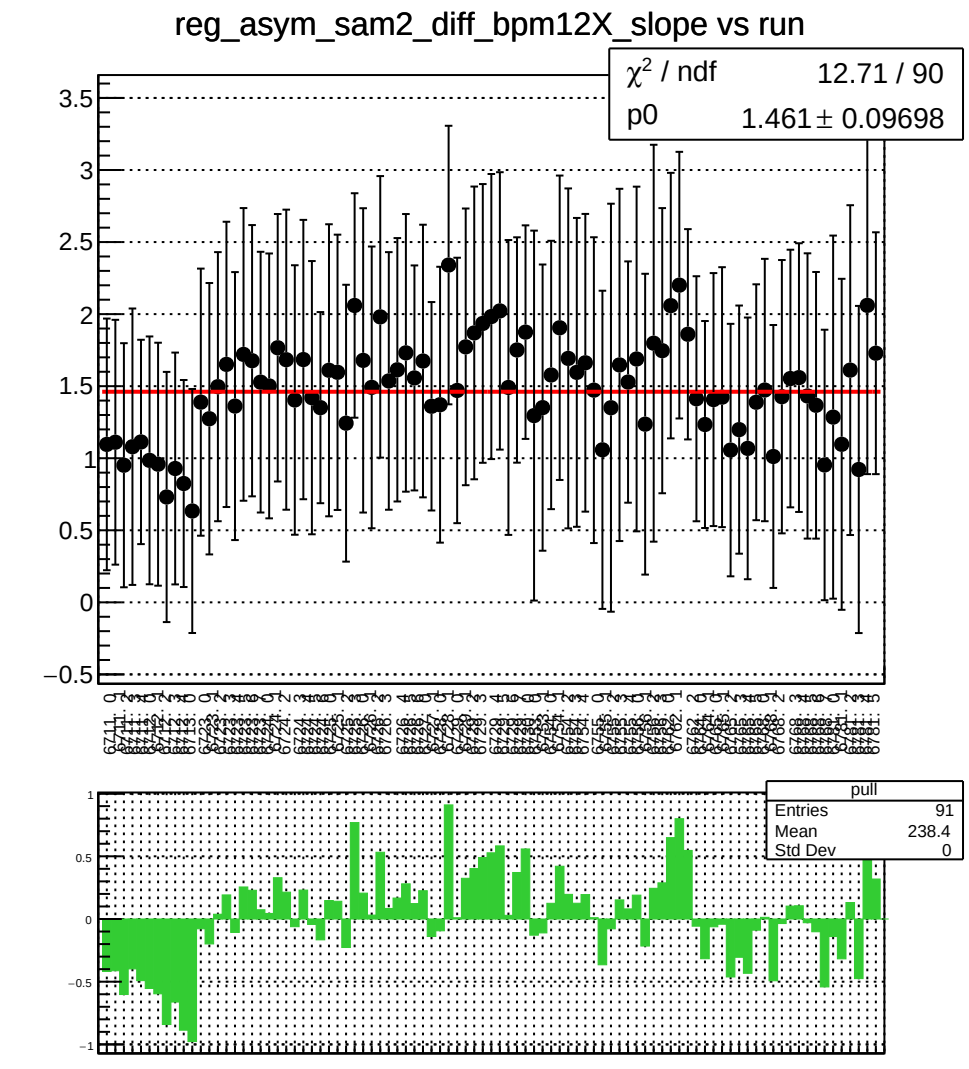

pull1D
Entries 91
Mean −0.05317
Std Dev 0.6184

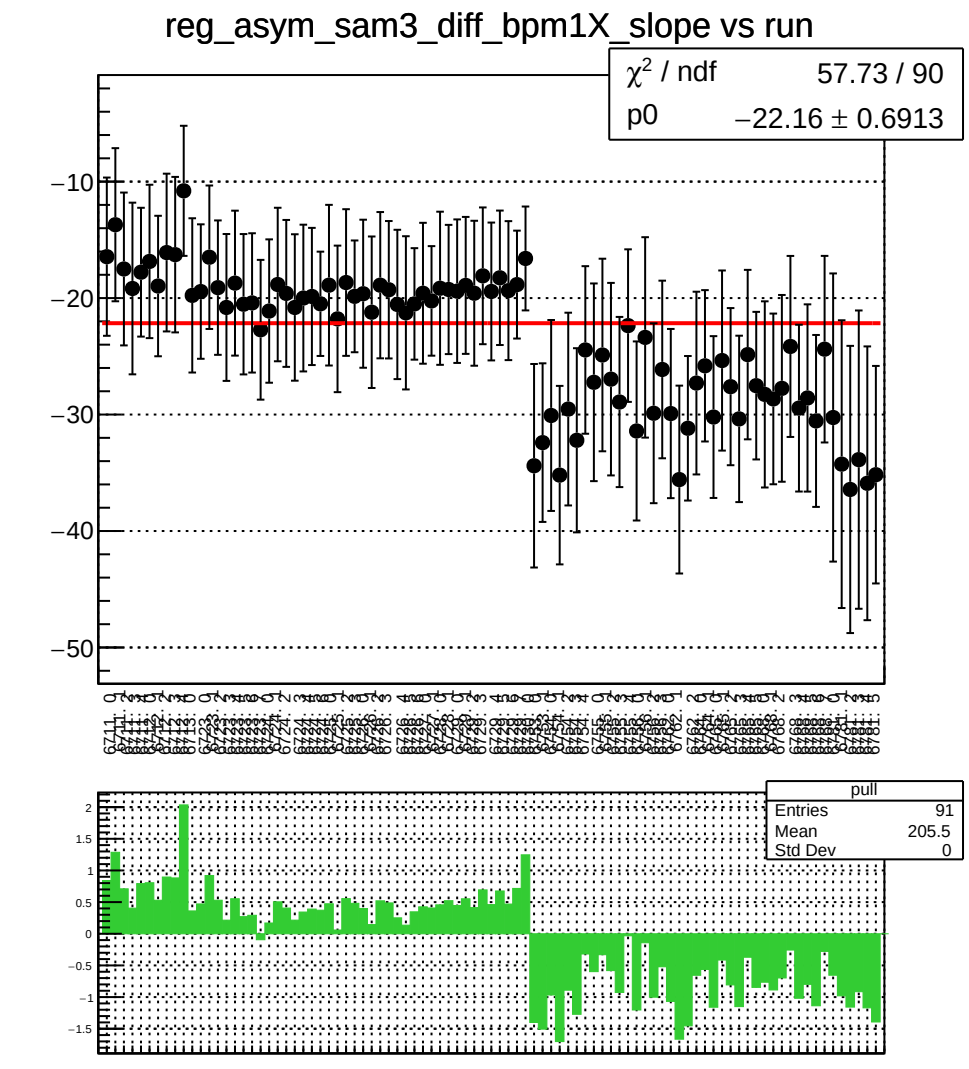

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 30.29 / 90
p0 −31.37 ± 1.378
pull
Entries 91
Mean −20.97
Std Dev 0
pull1D
Entries 91
Mean −0.05606
Std Dev 0.5742

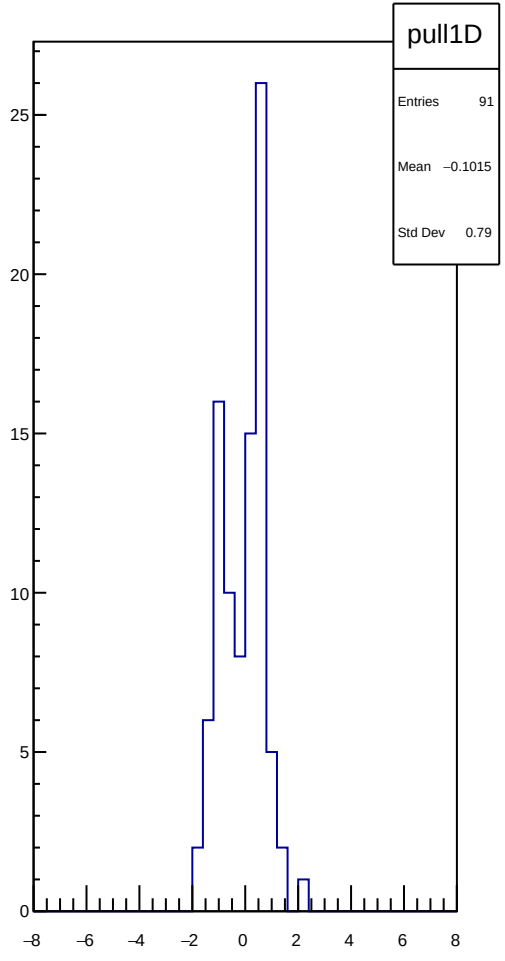

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 19.91 / 90
p0 −125 ± 2.241
−80
−100
−120
−140
−160
−180
pull
Entries 91
Mean −108.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

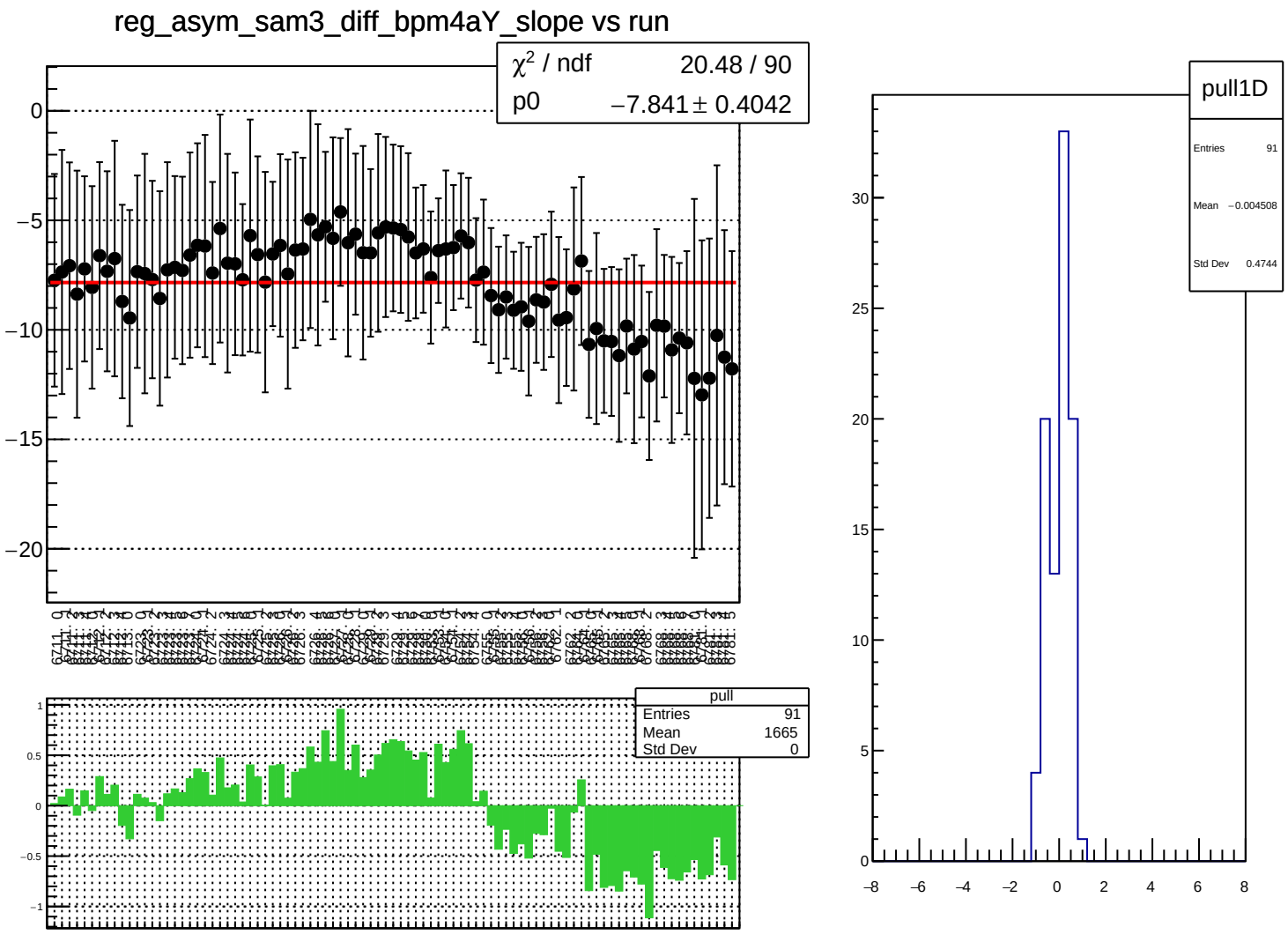

pull1D
Entries 91
Mean −0.005963
Std Dev 0.4677
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

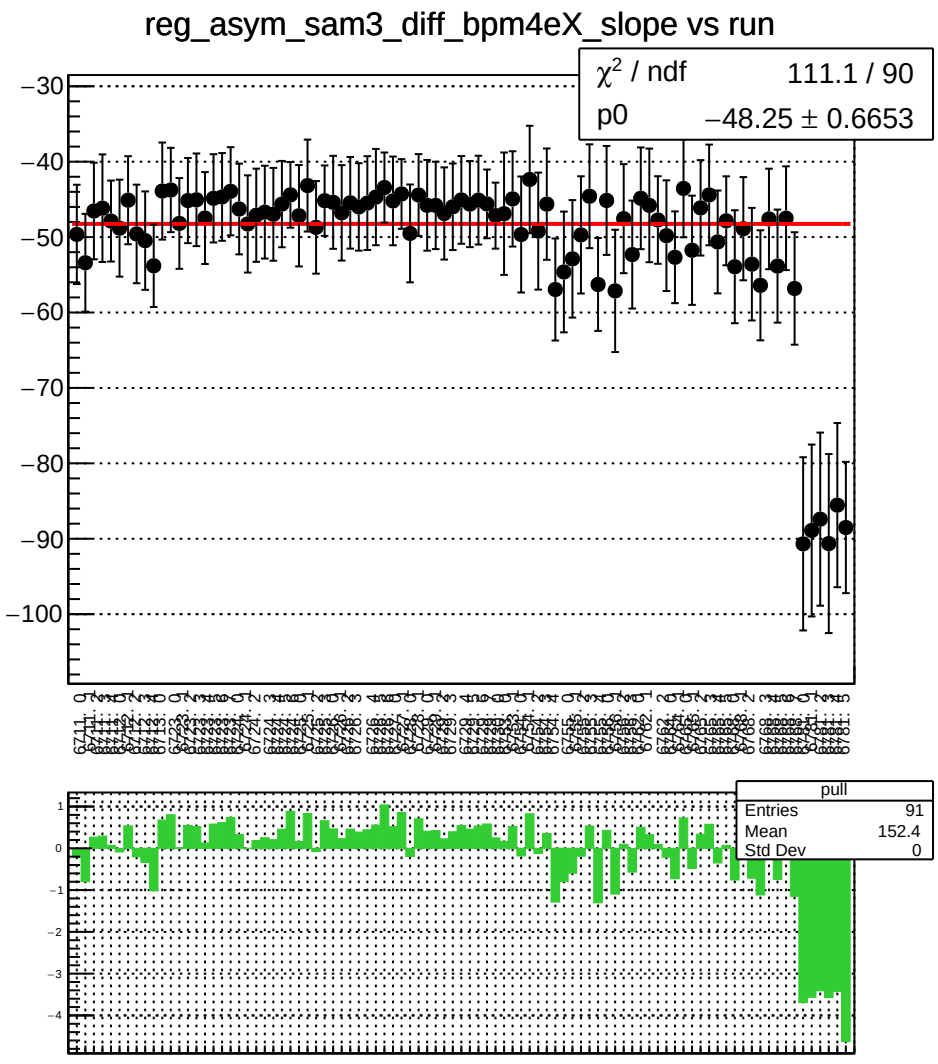

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 45.52 / 90
p0 −128.3 ± 1.724
−100
−120
−140
−160
−180
pull
Entries 91
Mean −555.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean 0.01499
Std Dev 0.7071
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

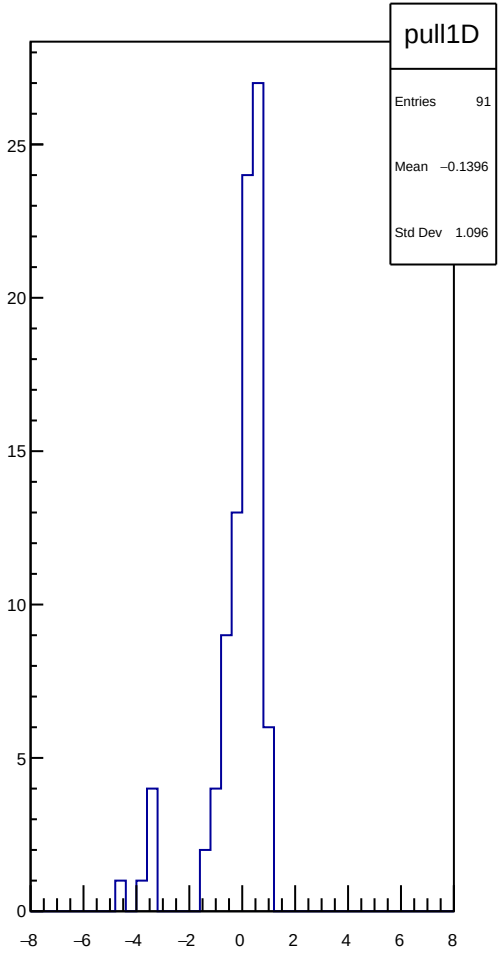

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 12.71 / 90
p0 1.461 ± 0.09698
pull
Entries 91
Mean 238.4
Std Dev 0
pull1D
Entries 91
Mean 0.01064
Std Dev 0.3736

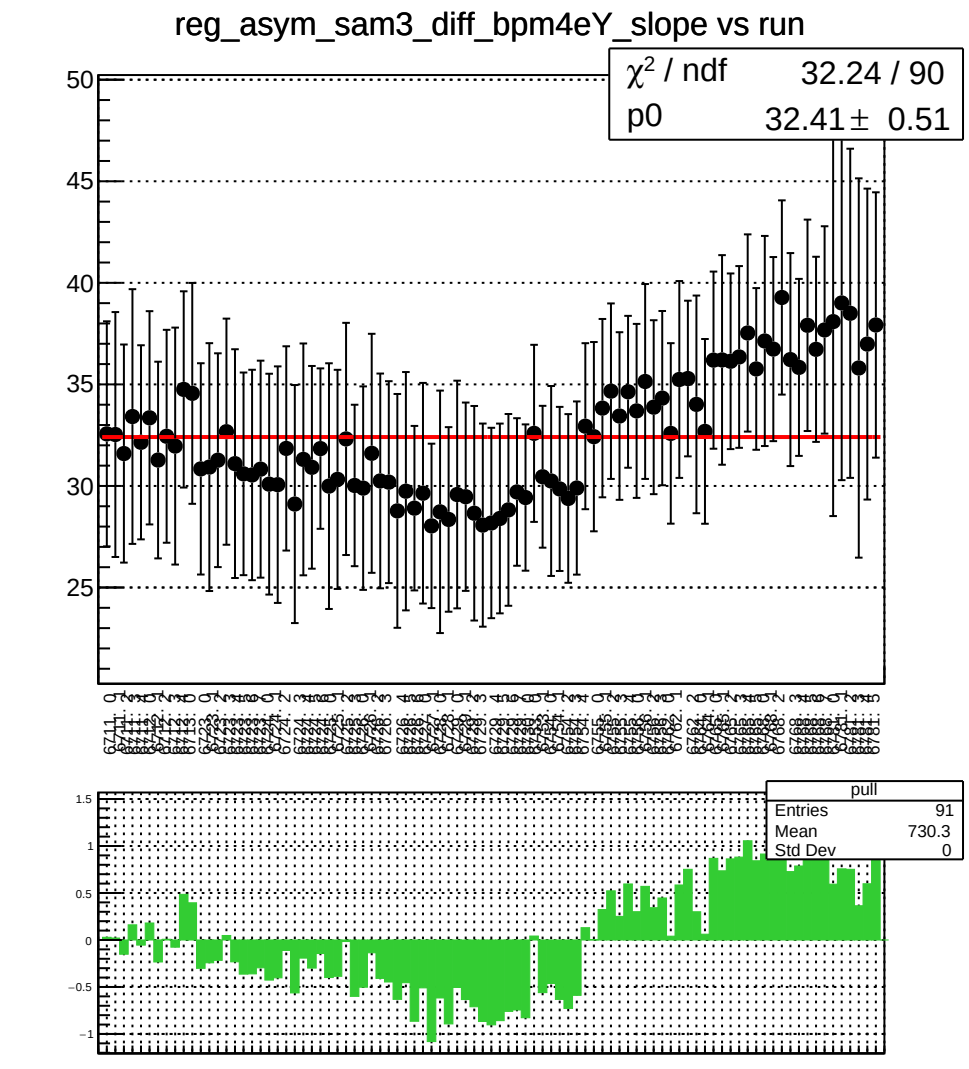

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 57.73 / 90
p0 −22.16 ± 0.6913
pull
Entries 91
Mean 205.5
Std Dev 0

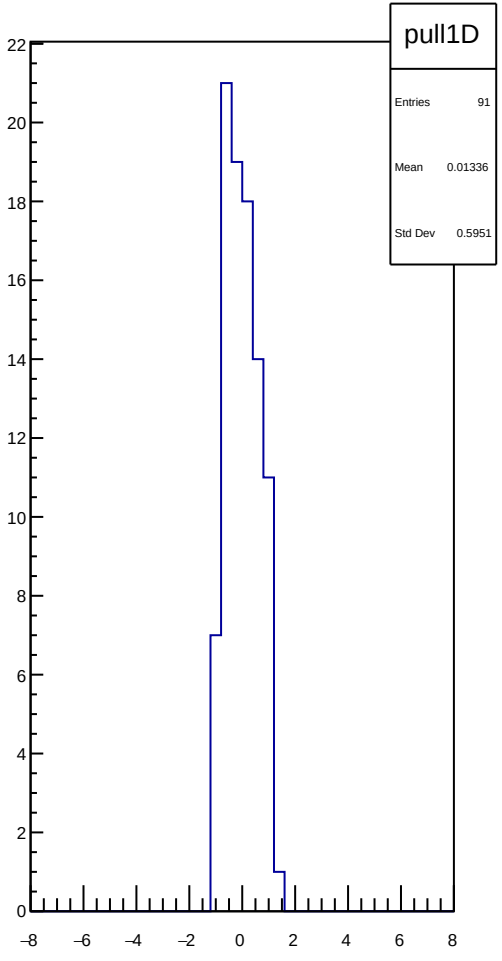

pull1D
Entries 91
Mean −0.1015
Std Dev 0.79

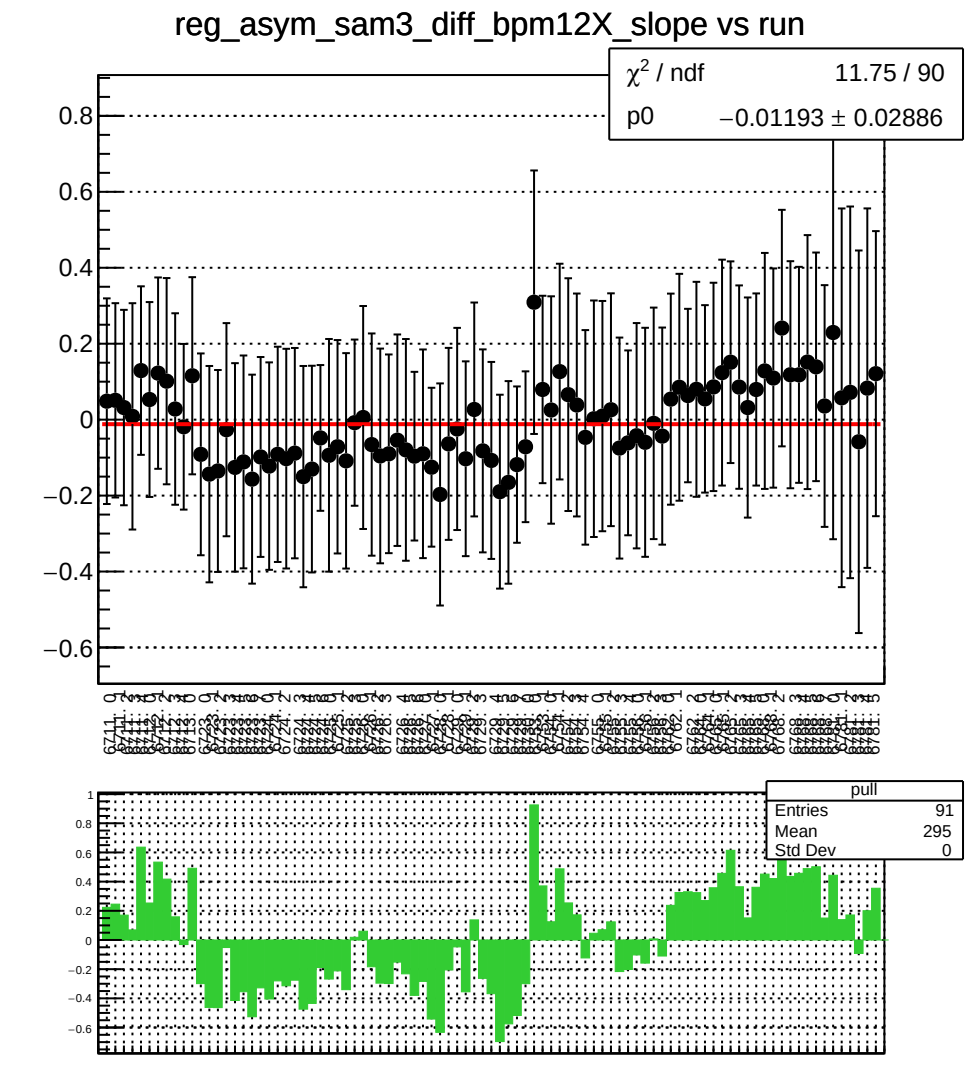

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 20.48 / 90
p0 −7.841 ± 0.4042
pull
Entries 91
Mean 1665
Std Dev 0
pull1D
Entries 91
Mean −0.004508
Std Dev 0.4744

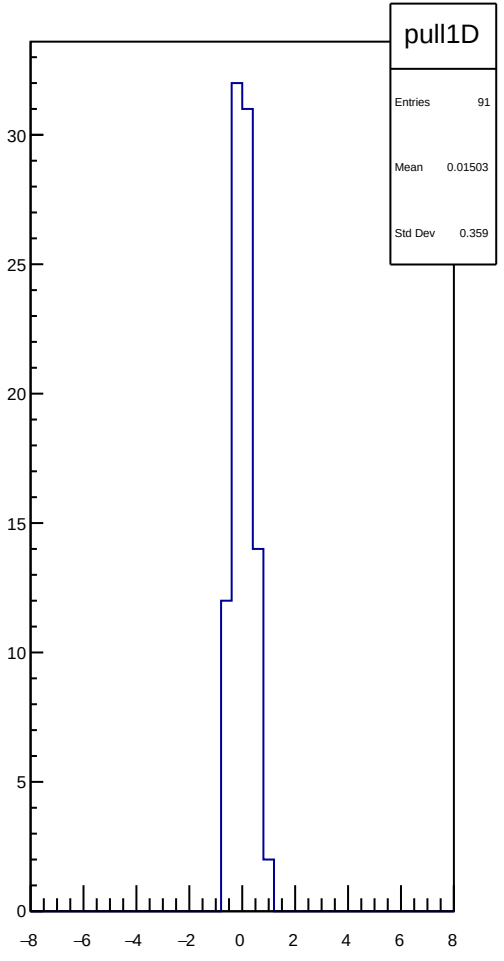

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 111.1 / 90
p0 −48.25 ± 0.6653
pull
Entries 91
Mean 152.4
Std Dev 0

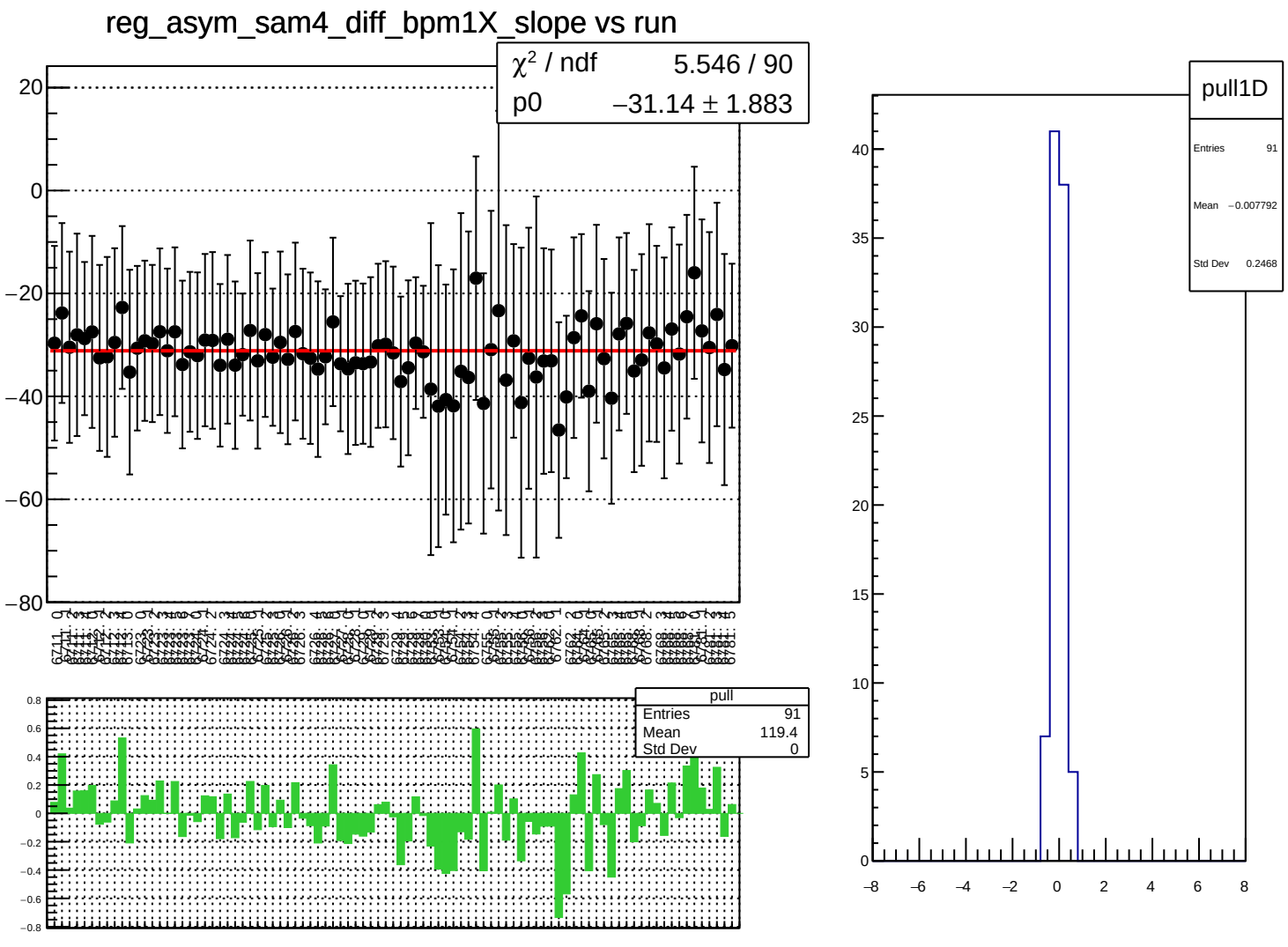

pull1D
Entries 91
Mean −0.1396
Std Dev 1.096

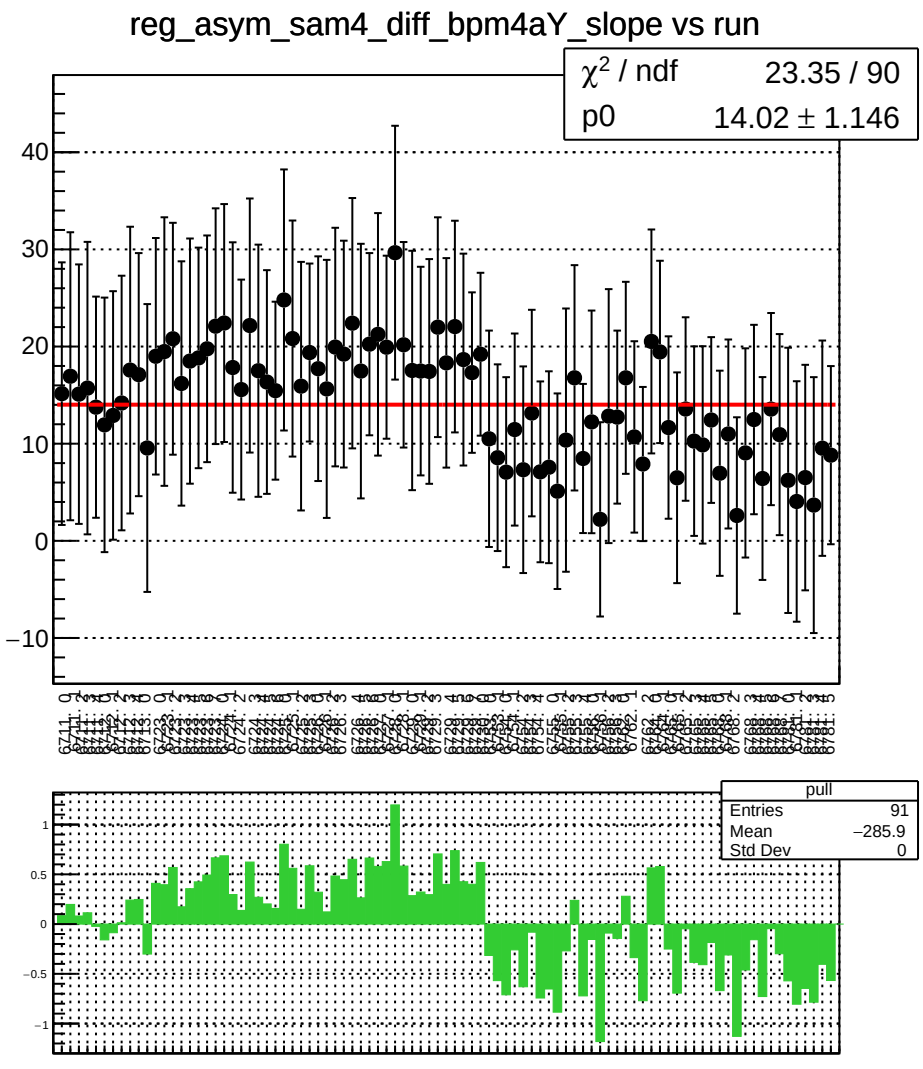

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 32.24 / 90
p0 32.41 ± 0.51
pull
Entries 91
Mean 730.3
Std Dev 0

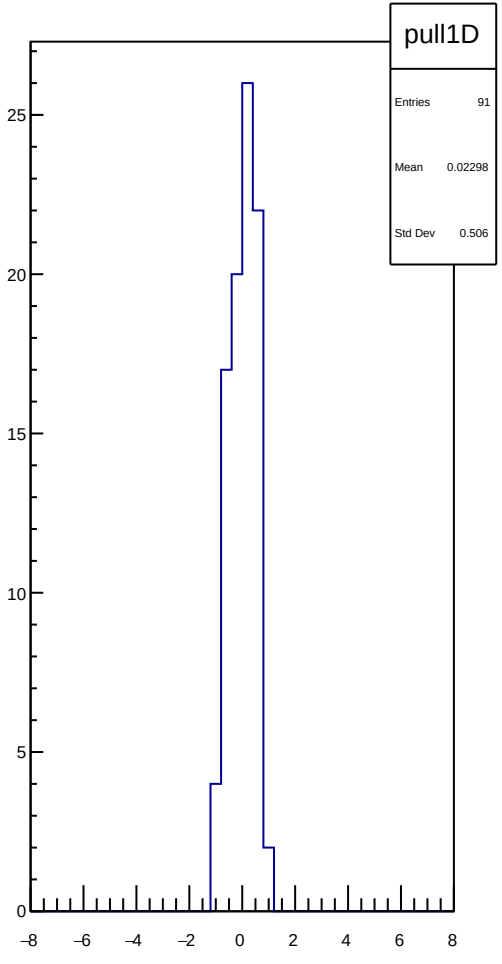

pull1D
Entries 91
Mean 0.01336
Std Dev 0.5951

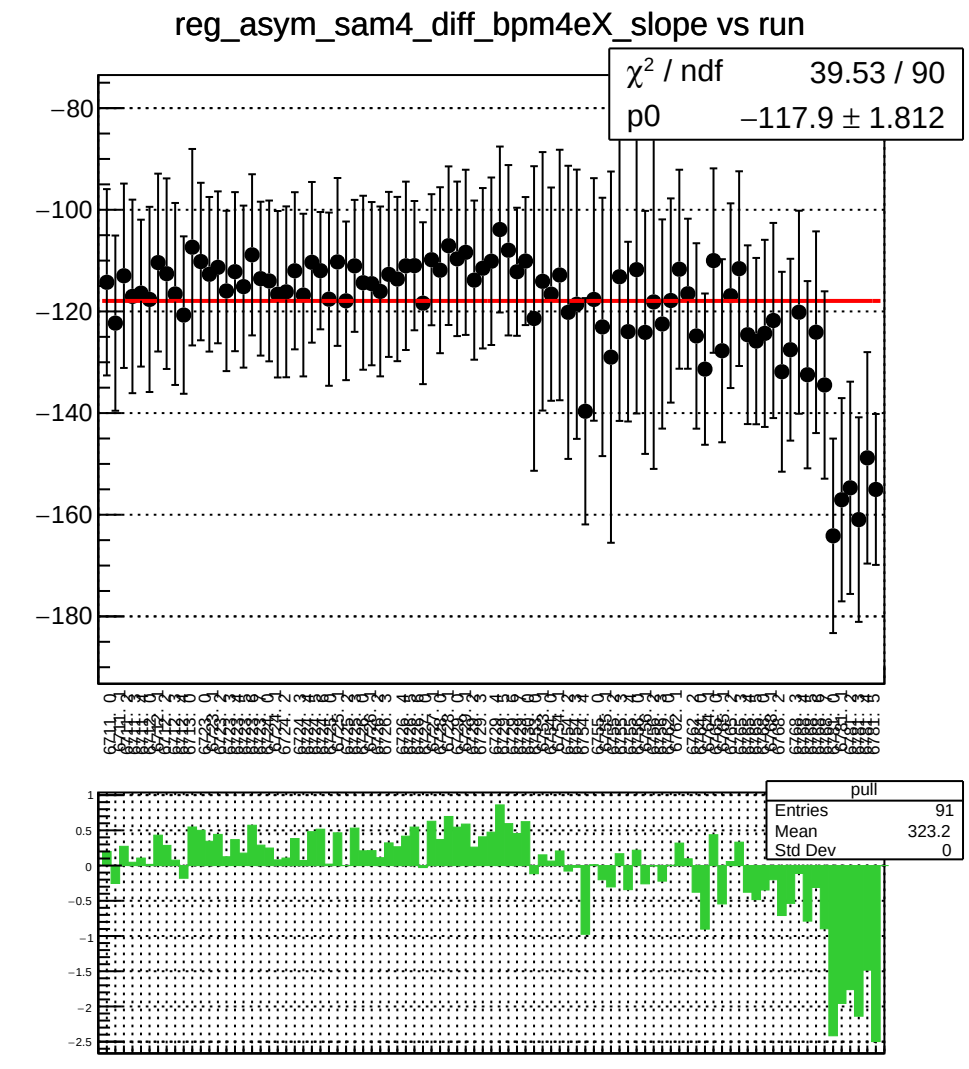

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 11.75 / 90
p0 −0.01193 ± 0.02886
pull
Entries 91
Mean 295
Std Dev 0

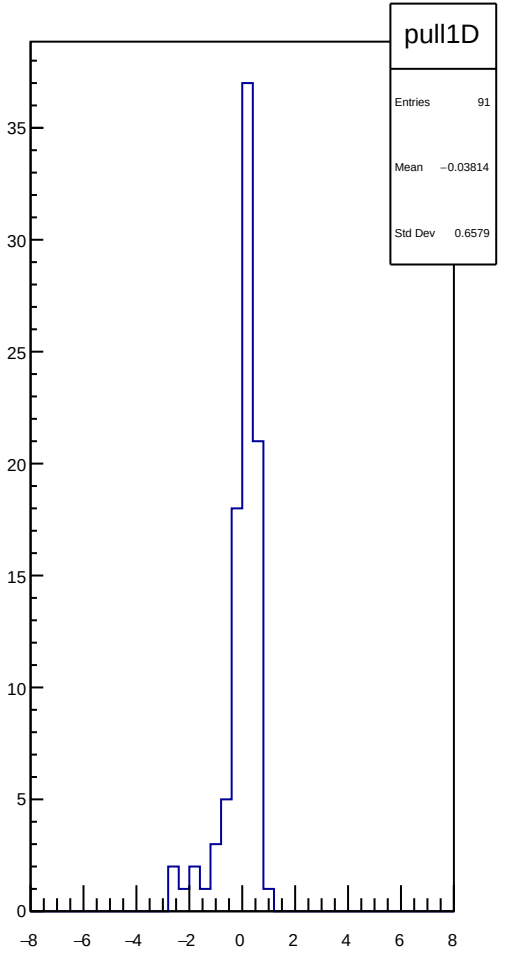

pull1D
Entries 91
Mean 0.01503
Std Dev 0.359

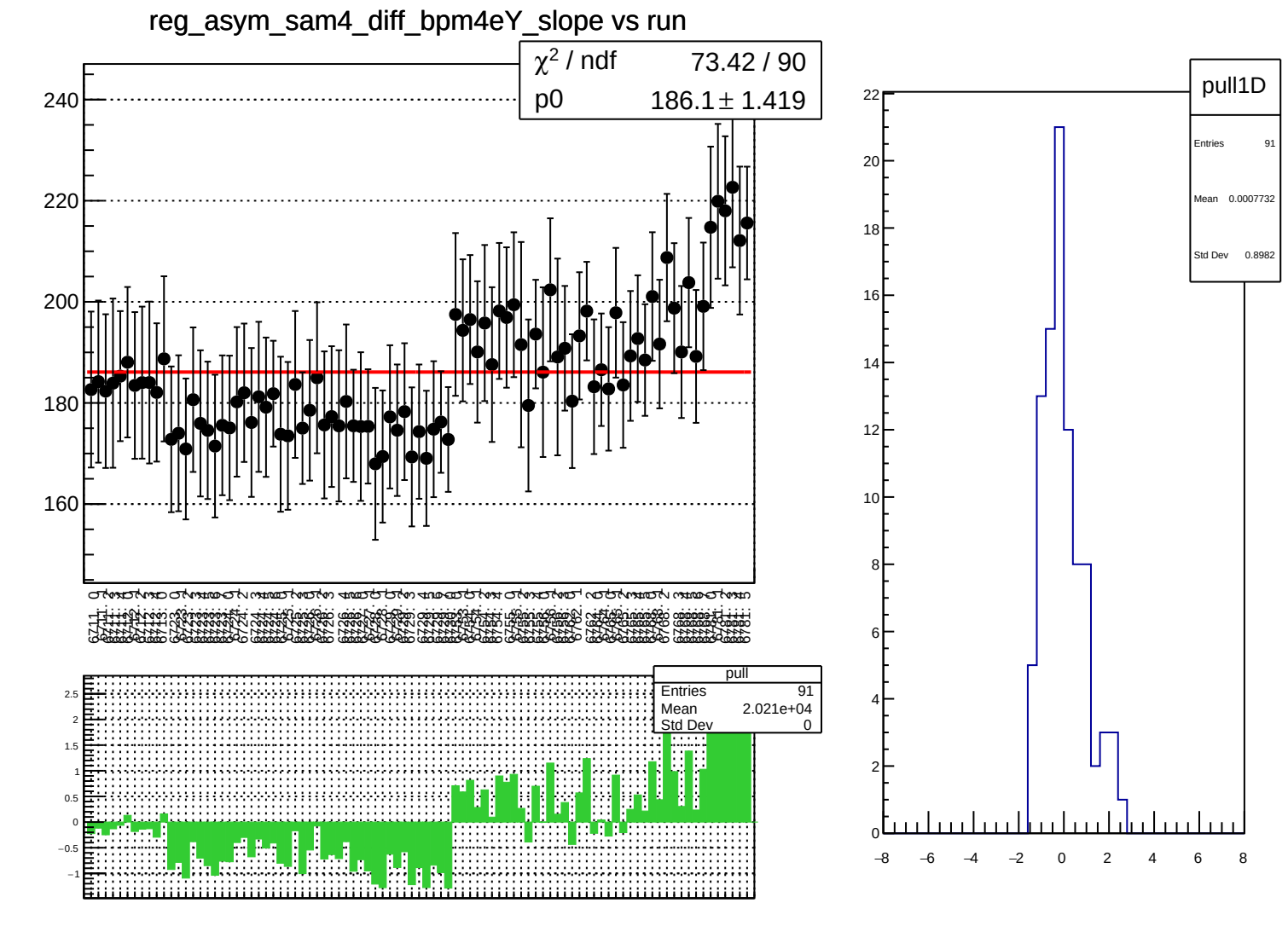

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 5.546 / 90
p0 −31.14 ± 1.883
pull
Entries 91
Mean 119.4
Std Dev 0
pull1D
Entries 91
Mean −0.007792
Std Dev 0.2468

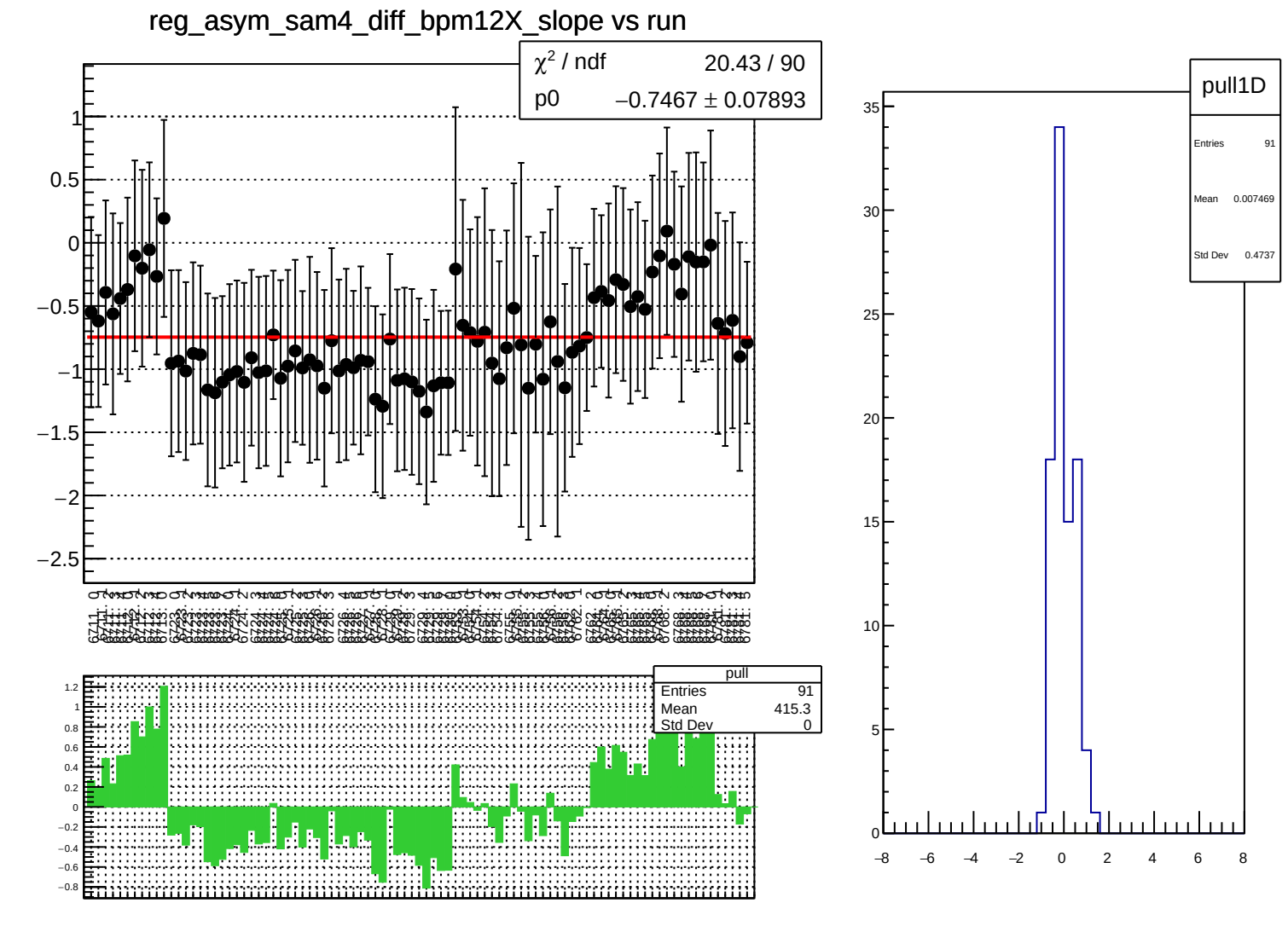

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 23.35 / 90
p0 14.02 ± 1.146
pull
Entries 91
Mean −285.9
Std Dev 0

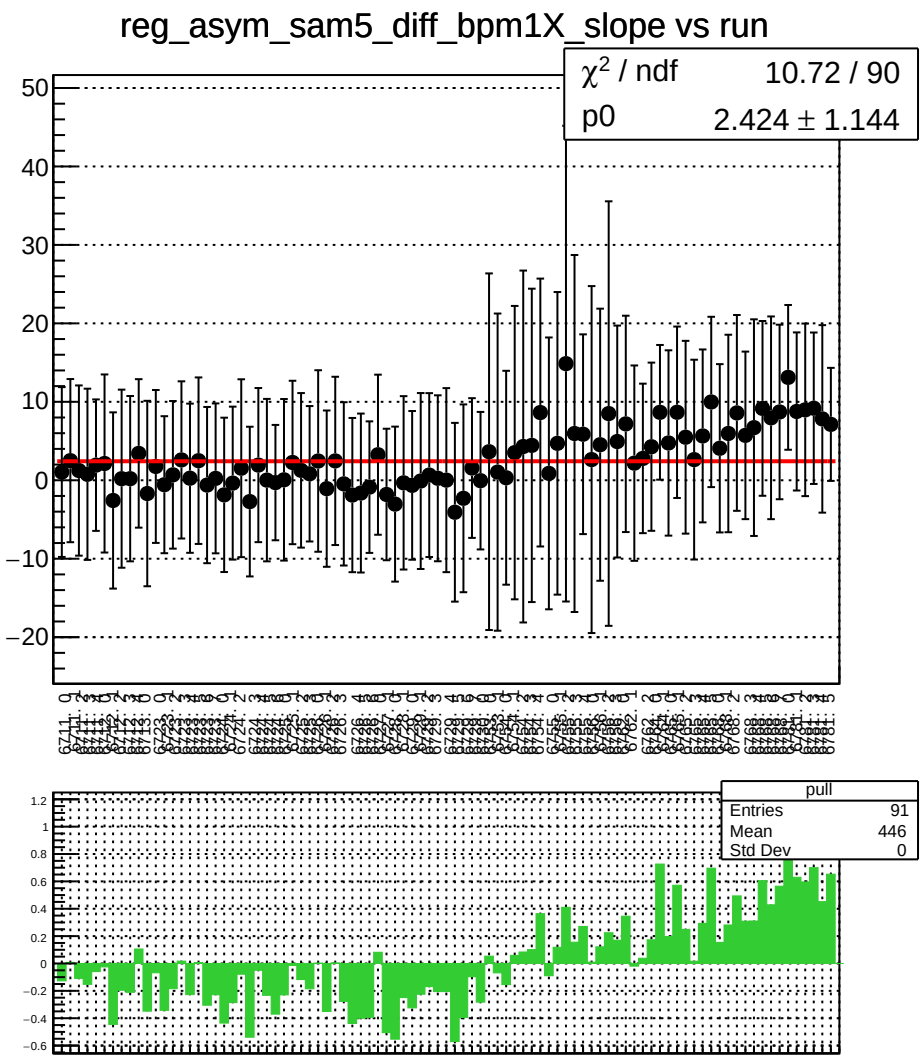

pull1D
Entries 91
Mean 0.02298
Std Dev 0.506

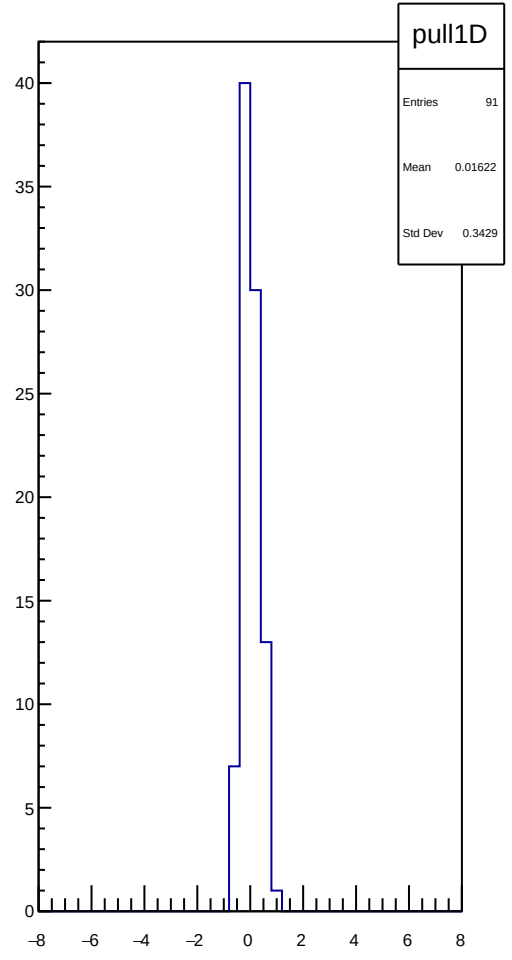

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 39.53 / 90
p0 −117.9 ± 1.812
−80
−100
−120
−140
−160
−180
pull
Entries 91
Mean 323.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

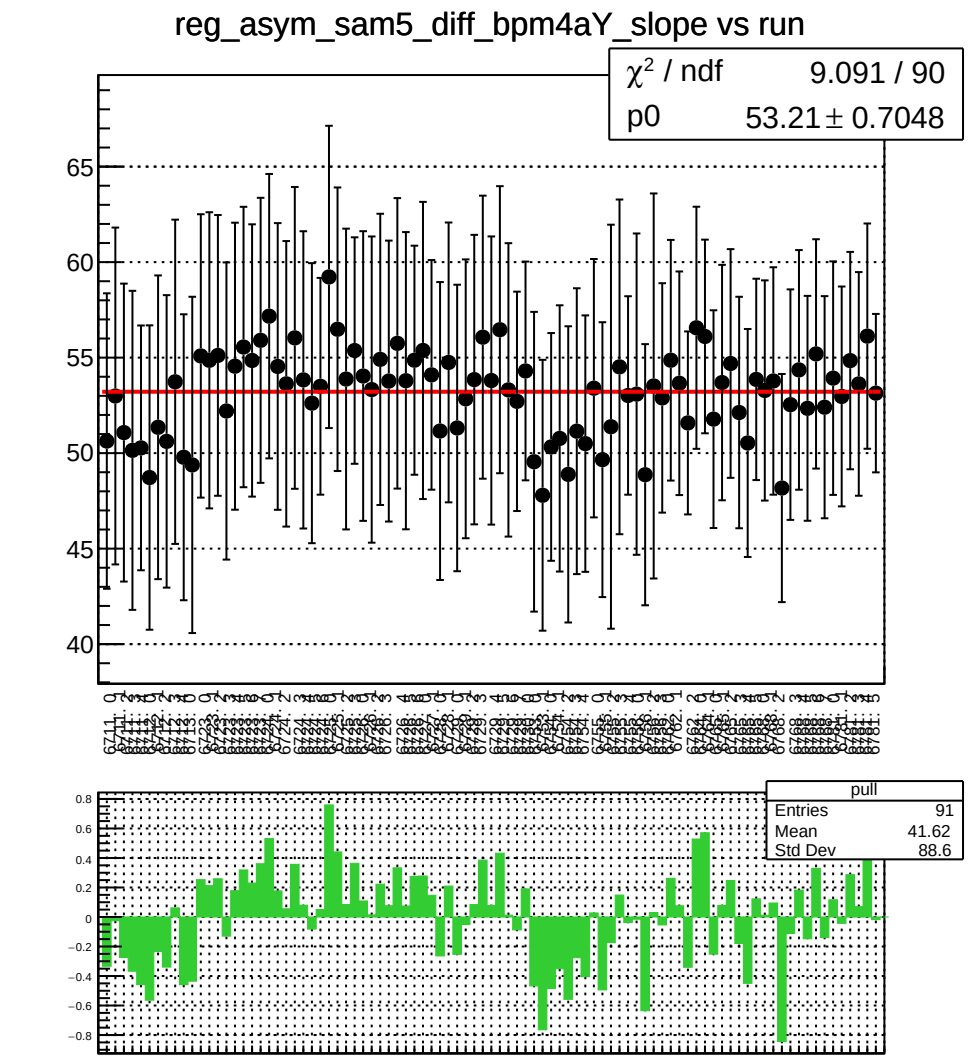

pull1D
Entries 91
Mean −0.03814
Std Dev 0.6579
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

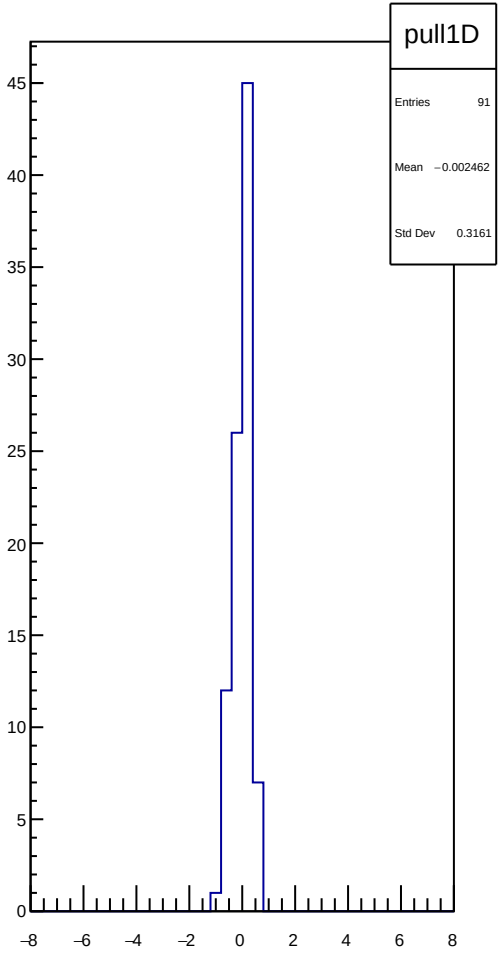

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 73.42 / 90
p0 186.1 ± 1.419
240
220
200
180
160
pull
Entries 91
Mean 2.021e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 91
Mean 0.0007732
Std Dev 0.8982
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

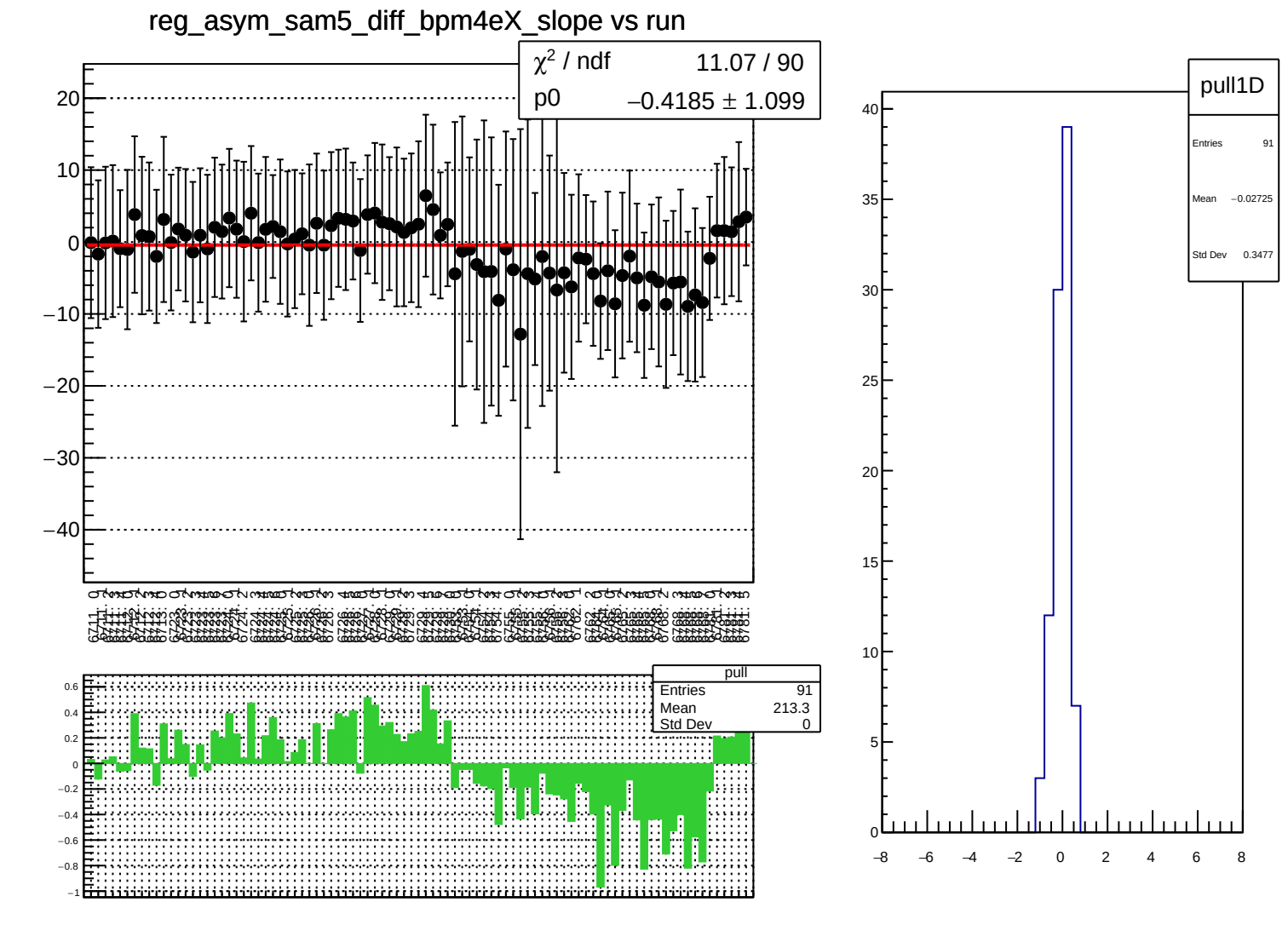

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 20.43 / 90
p0 −0.7467 ± 0.07893
pull
Entries 91
Mean 415.3
Std Dev 0
pull1D
Entries 91
Mean 0.007469
Std Dev 0.4737

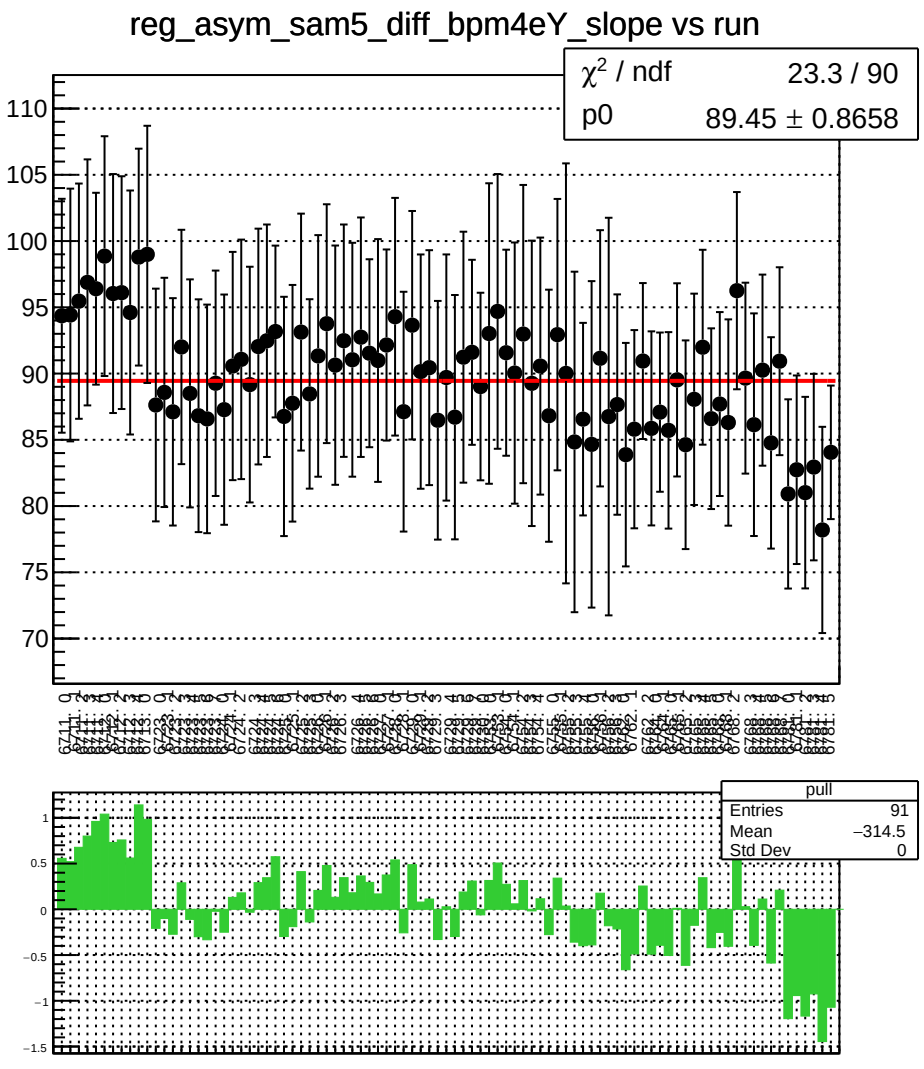

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 10.72 / 90
p0 2.424 ± 1.144
pull
Entries 91
Mean 446
Std Dev 0

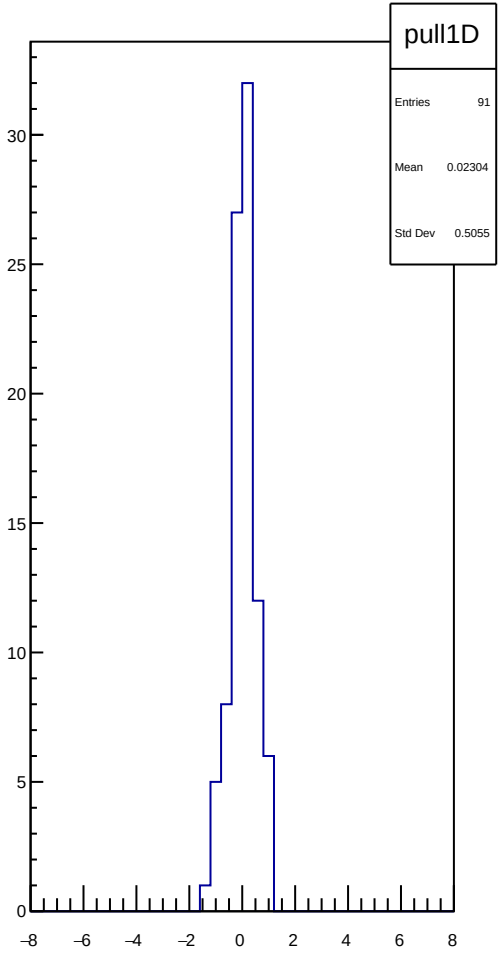

pull1D
Entries 91
Mean 0.01622
Std Dev 0.3429

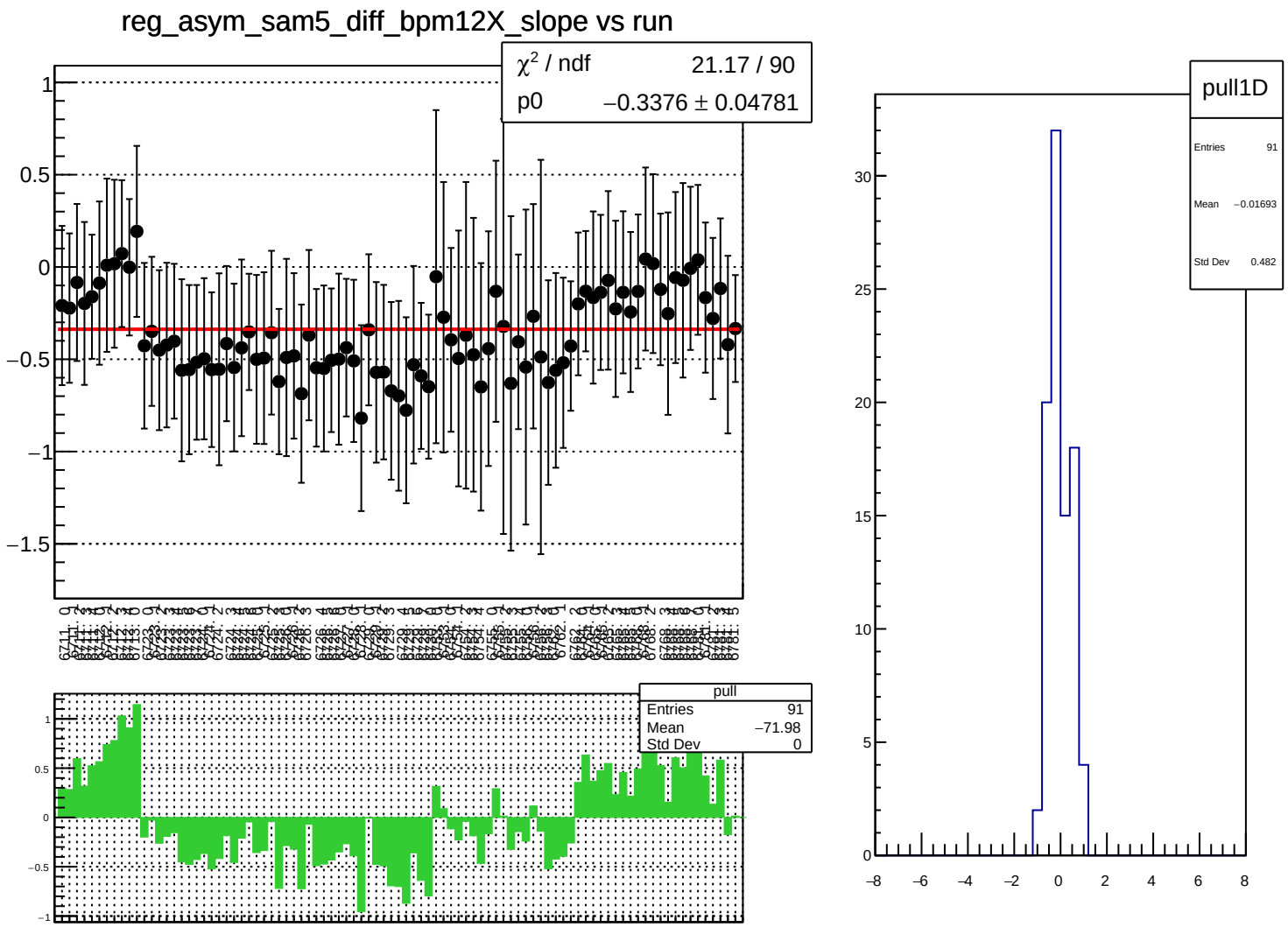

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 9.091 / 90
p0 53.21 ± 0.7048
pull
Entries 91
Mean 41.62
Std Dev 88.6

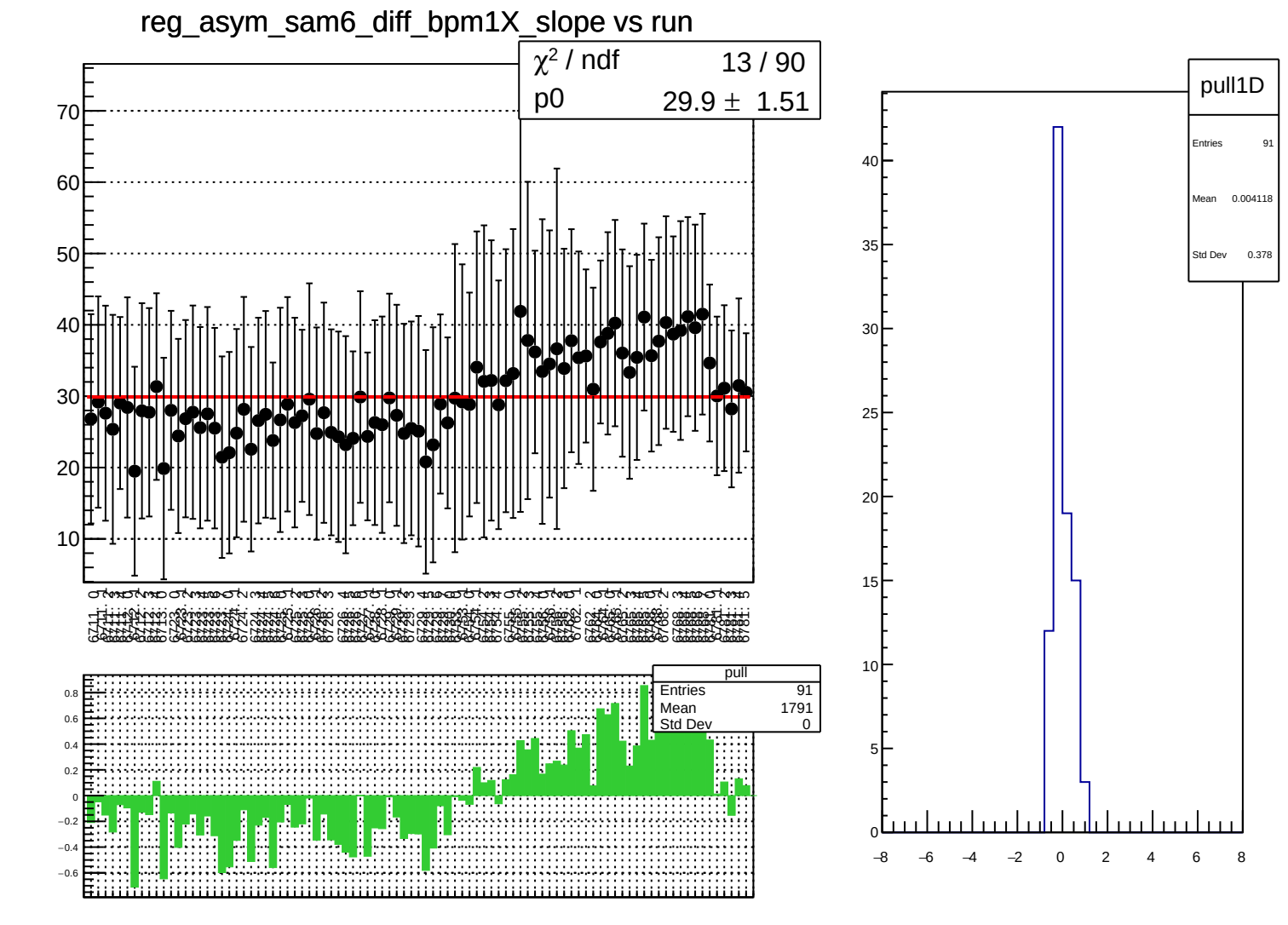

pull1D
Entries 91
Mean −0.002462
Std Dev 0.3161

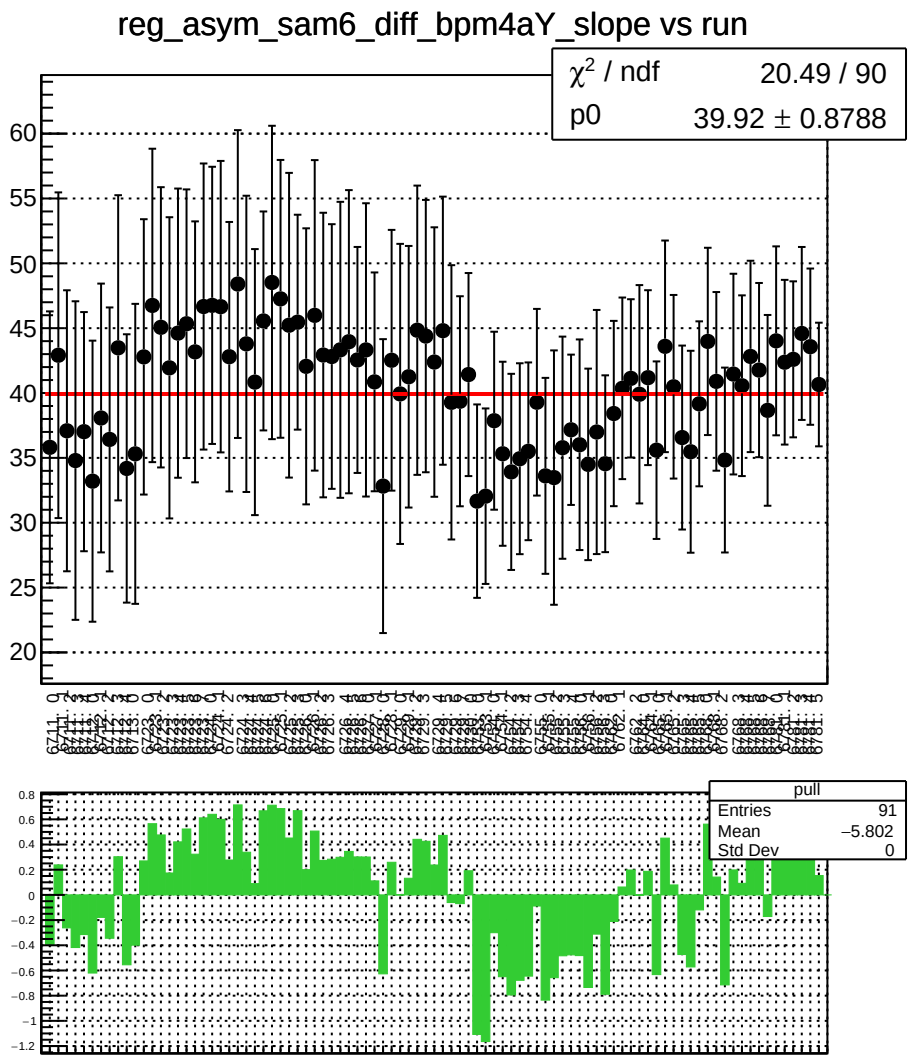

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 11.07 / 90
p0 −0.4185 ± 1.099
pull
Entries 91
Mean 213.3
Std Dev 0
pull1D
Entries 91
Mean −0.02725
Std Dev 0.3477

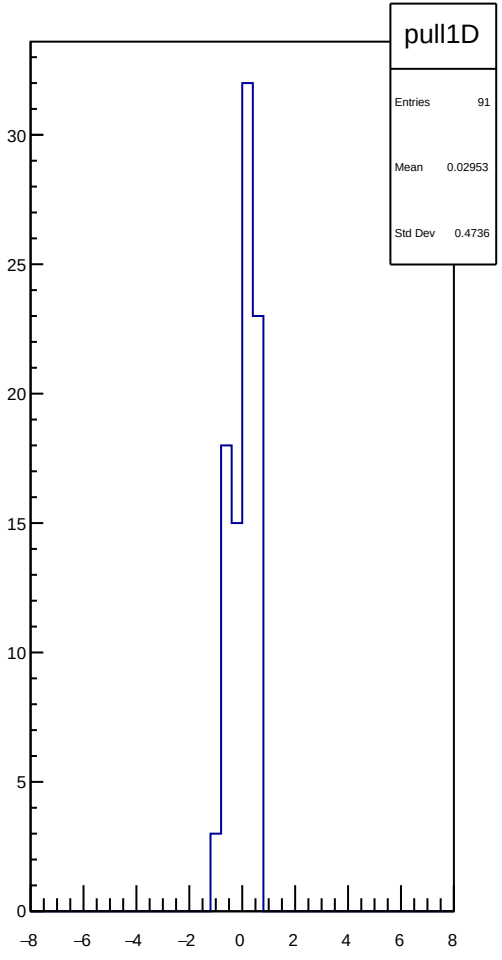

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 23.3 / 90
p0 89.45 ± 0.8658
pull
Entries 91
Mean −314.5
Std Dev 0

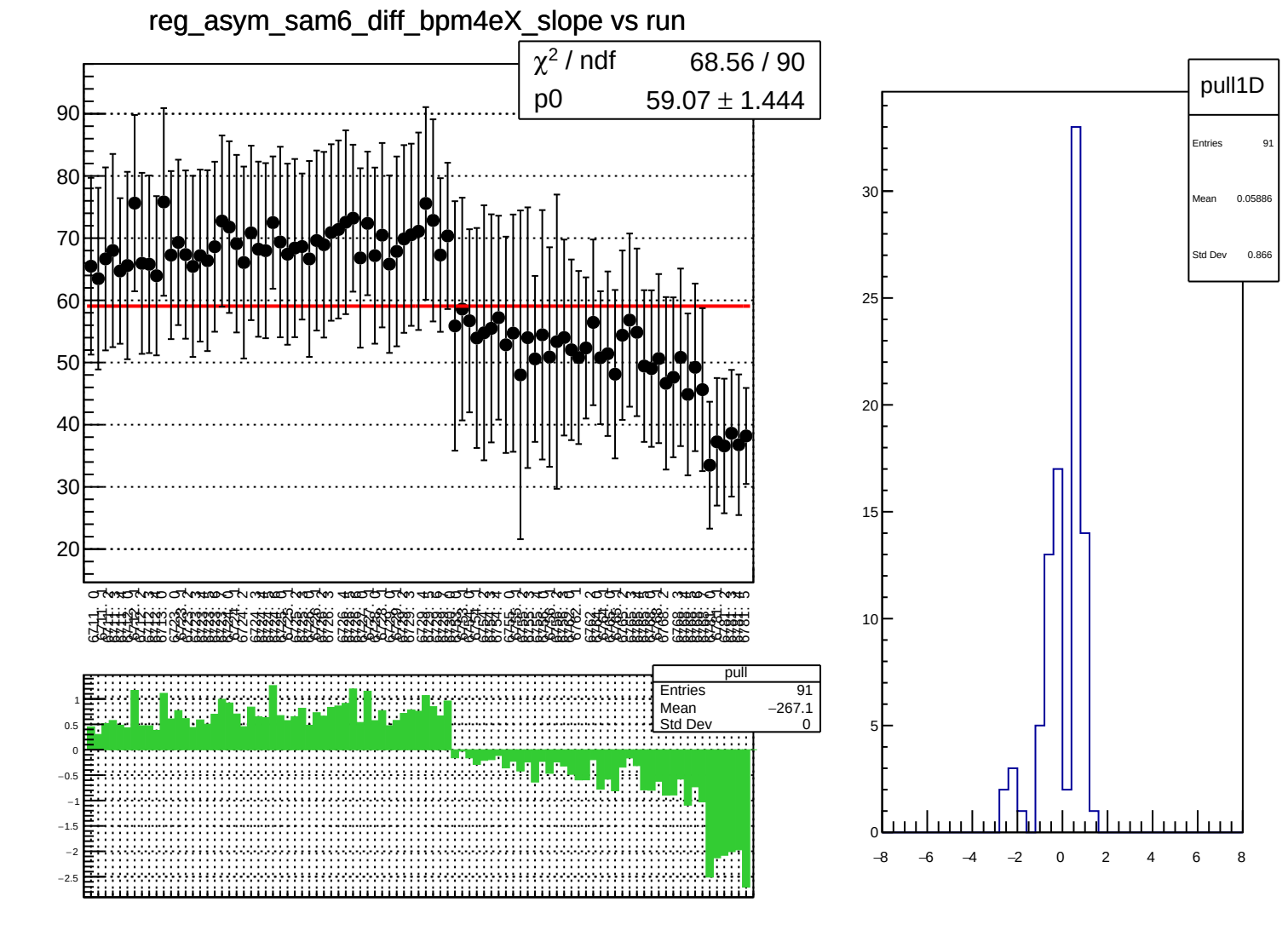

pull1D
Entries 91
Mean 0.02304
Std Dev 0.5055

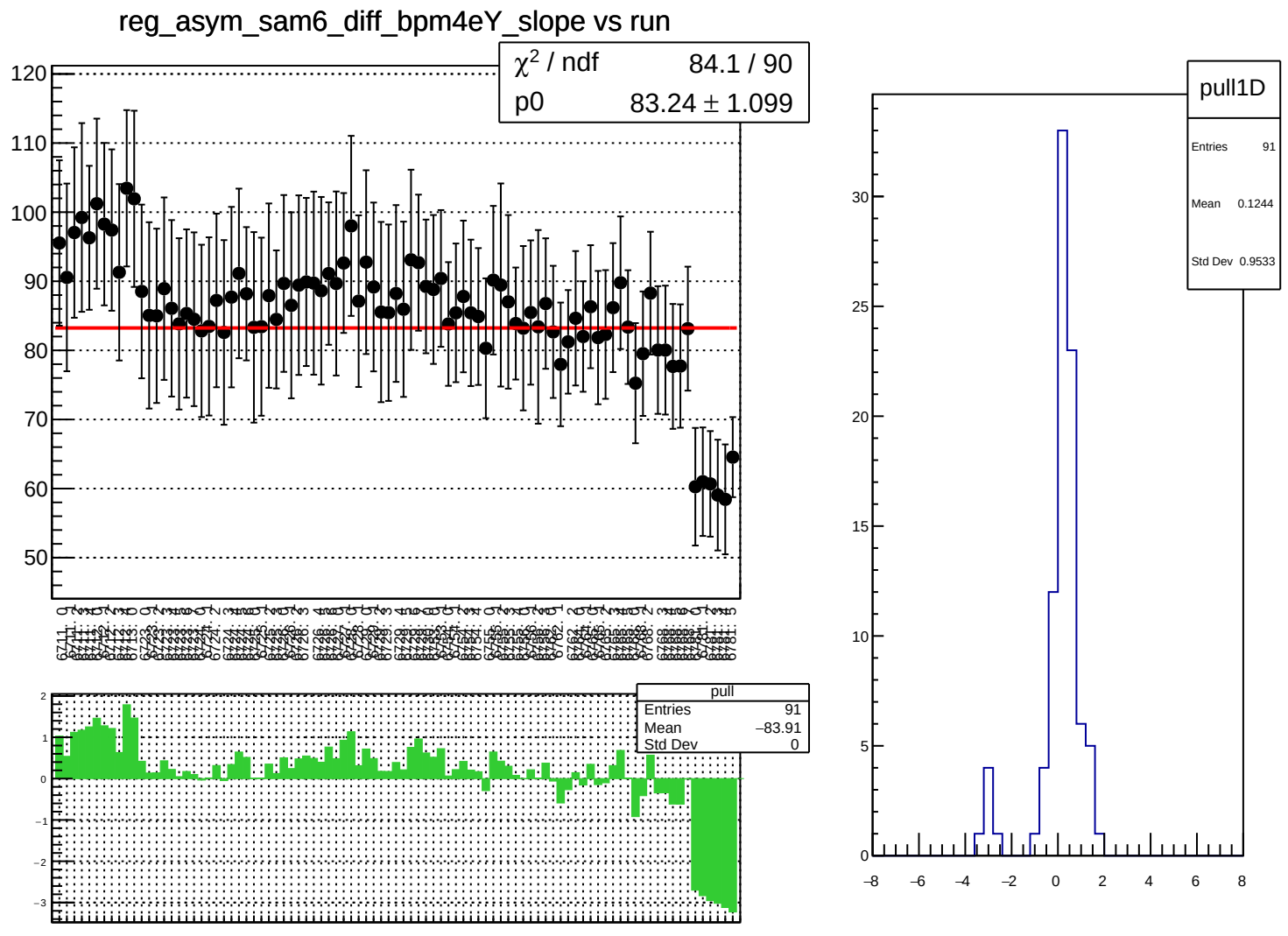

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 21.17 / 90
p0 −0.3376 ± 0.04781
pull
Entries 91
Mean −71.98
Std Dev 0
pull1D
Entries 91
Mean −0.01693
Std Dev 0.482

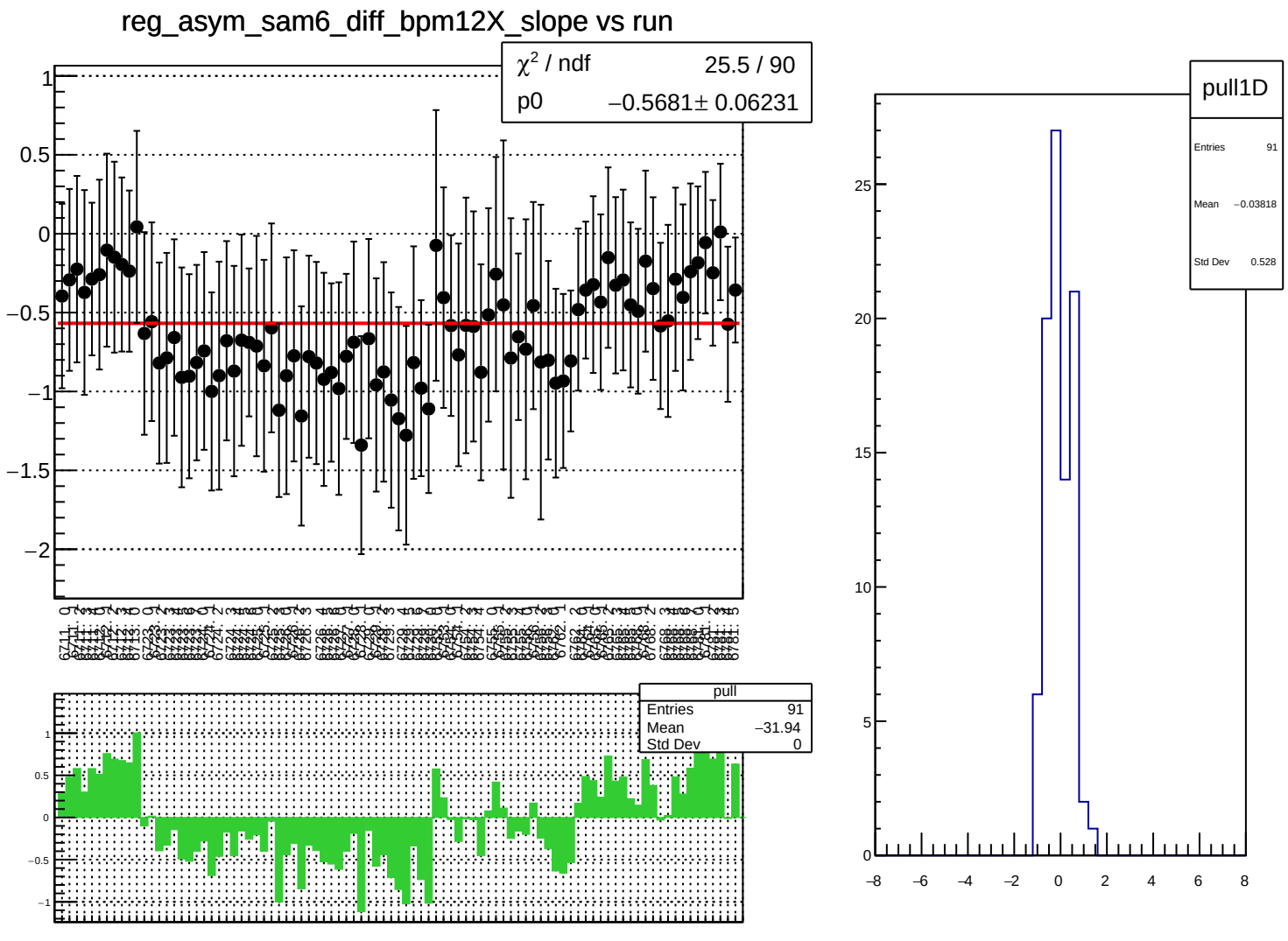

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 13 / 90
p0 29.9 ± 1.51
pull
Entries 91
Mean 1791
Std Dev 0
pull1D
Entries 91
Mean 0.004118
Std Dev 0.378

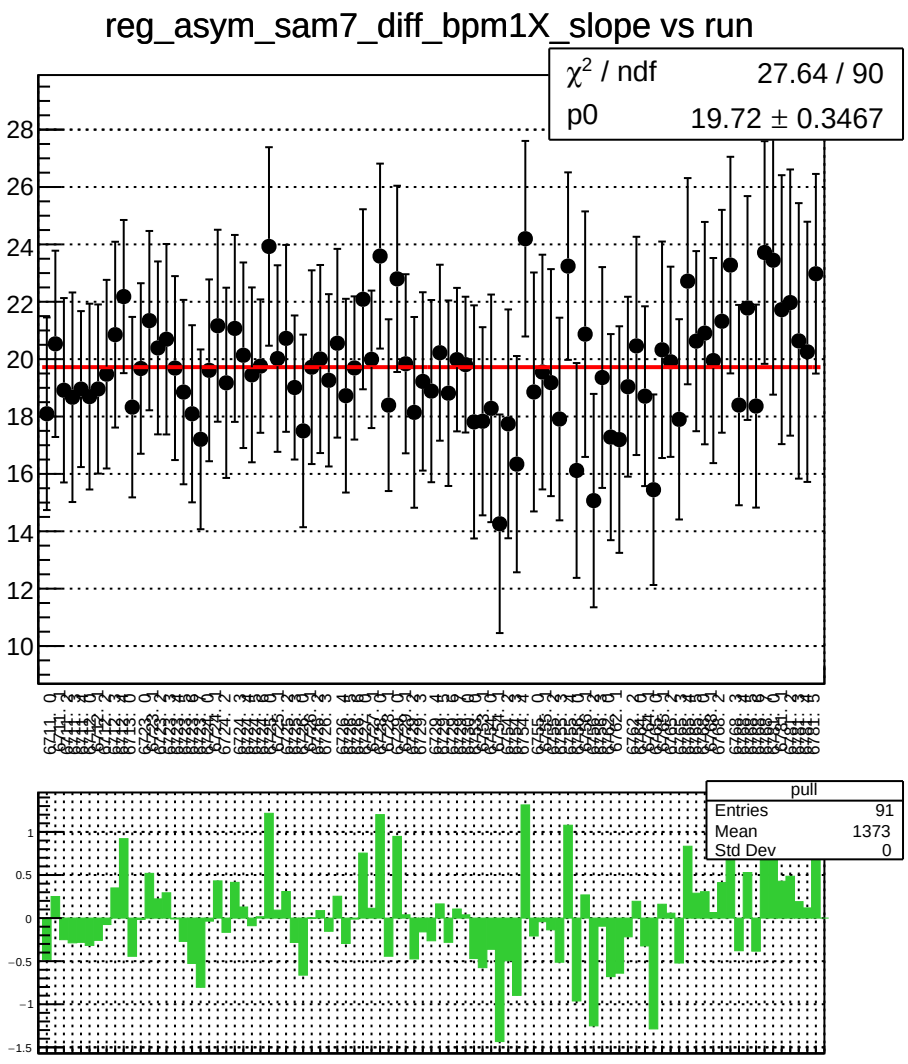

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 20.49 / 90
p0 39.92 ± 0.8788
pull
Entries 91
Mean −5.802
Std Dev 0

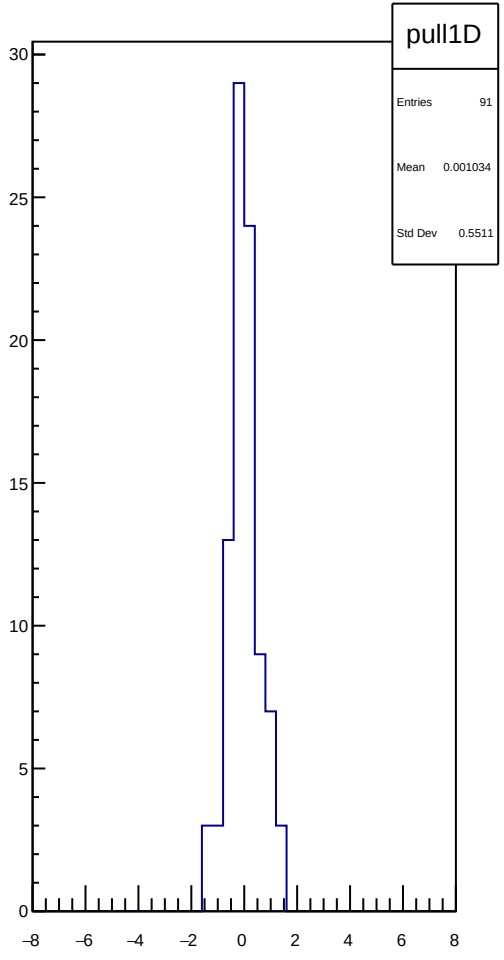

pull1D
Entries 91
Mean 0.02953
Std Dev 0.4736

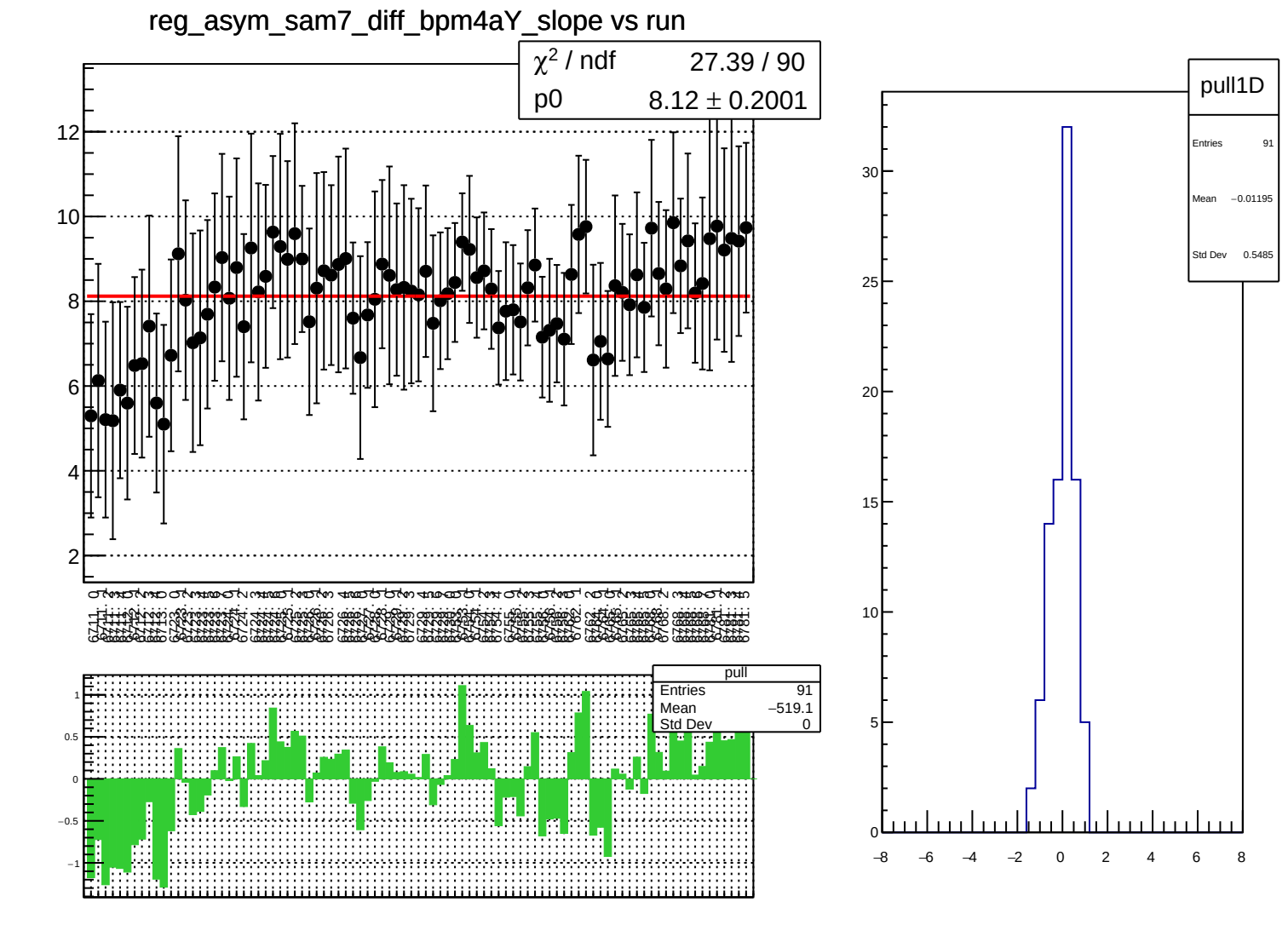

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 68.56 / 90
p0 59.07 ± 1.444
pull
Entries 91
Mean −267.1
Std Dev 0
pull1D
Entries 91
Mean 0.05886
Std Dev 0.866

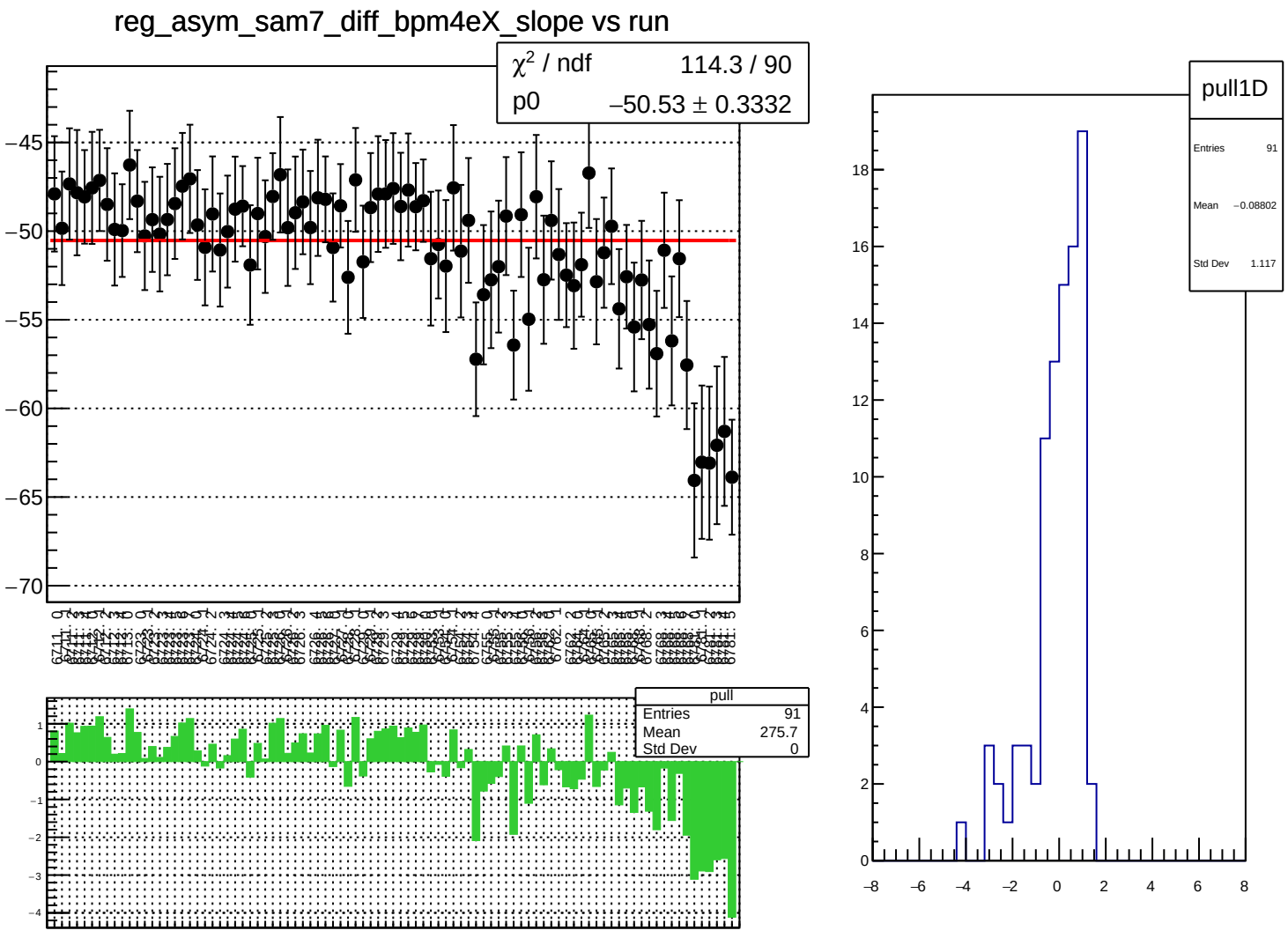

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 84.1 / 90
p0 83.24 ± 1.099
pull
Entries 91
Mean −83.91
Std Dev 0
pull1D
Entries 91
Mean 0.1244
Std Dev 0.9533

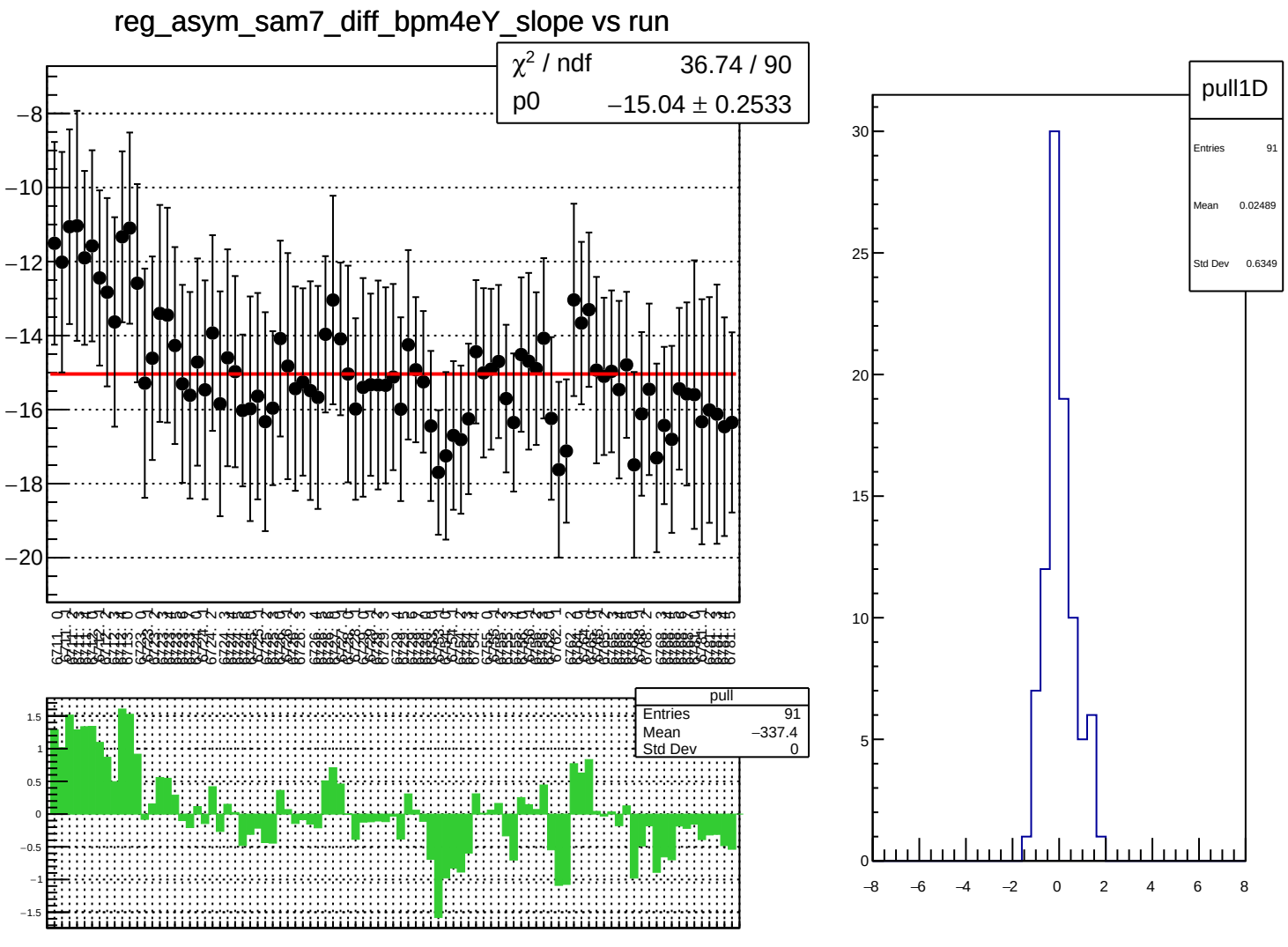

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 25.5 / 90
p0 −0.5681± 0.06231
pull
Entries 91
Mean −31.94
Std Dev 0
pull1D
Entries 91
Mean −0.03818
Std Dev 0.528

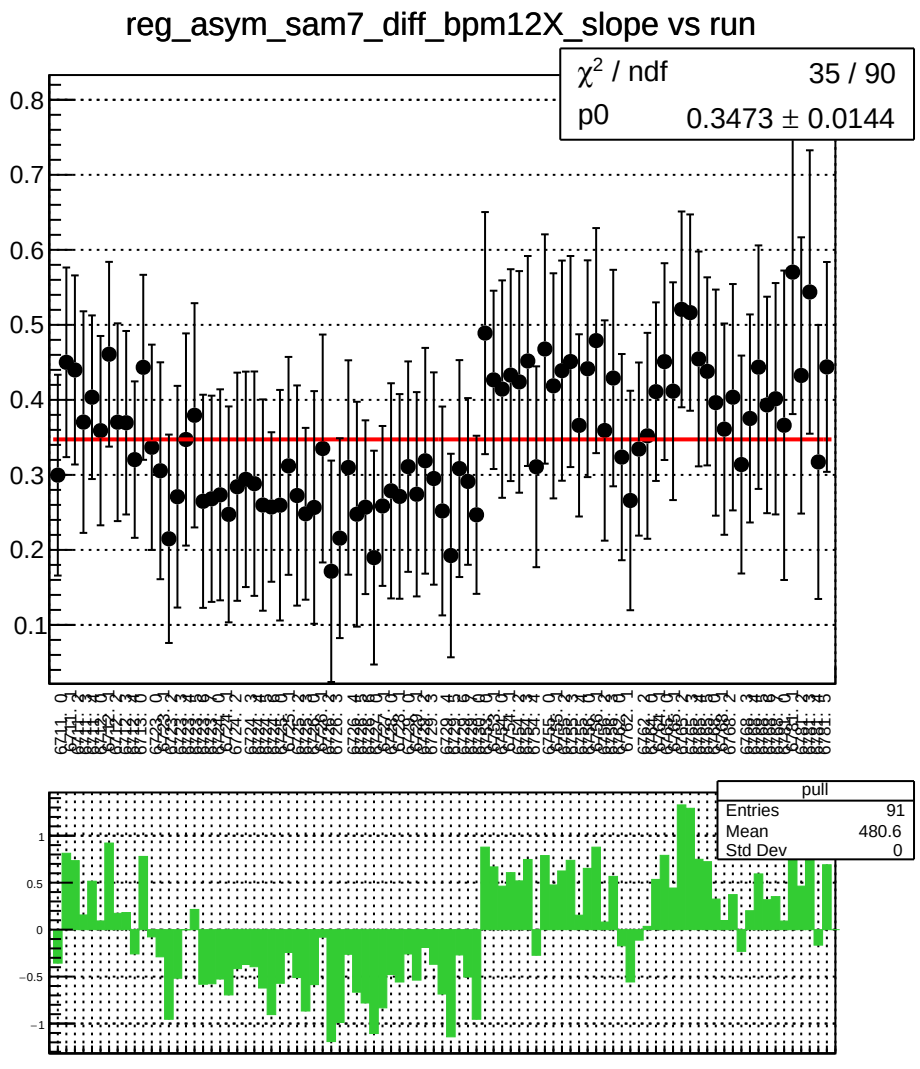

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 27.64 / 90
p0 19.72 ± 0.3467
pull
Entries 91
Mean 1373
Std Dev 0

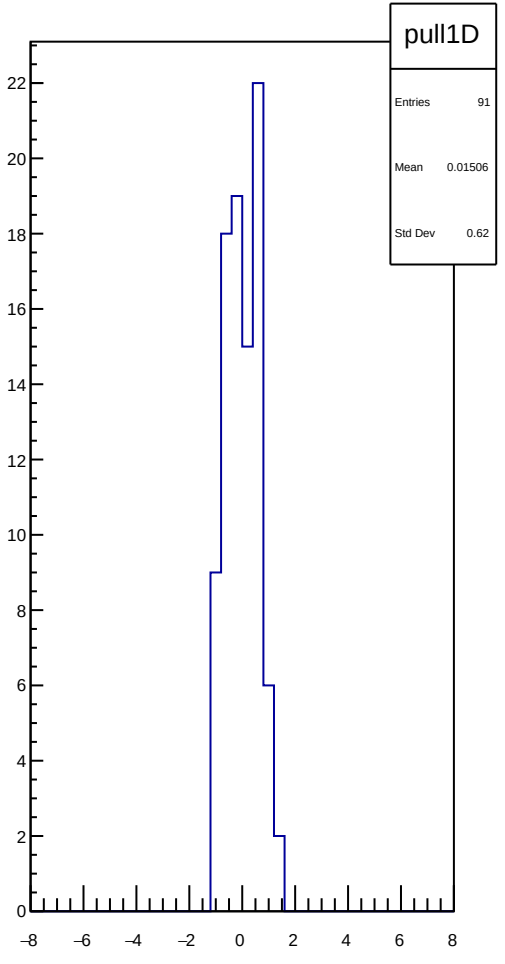

pull1D
Entries 91
Mean 0.001034
Std Dev 0.5511

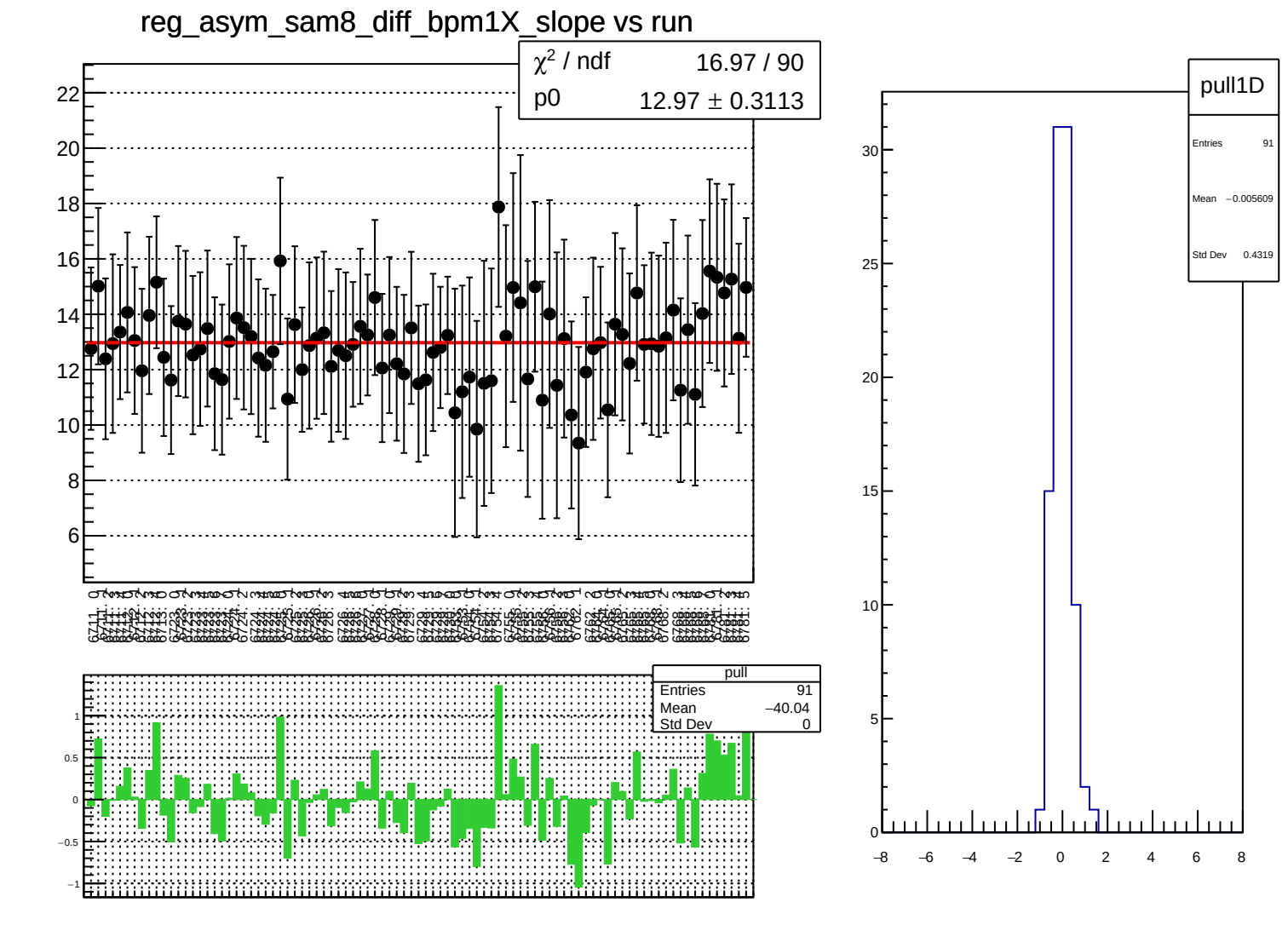

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 27.39 / 90
p0 8.12 ± 0.2001
pull
Entries 91
Mean −519.1
Std Dev 0
pull1D
Entries 91
Mean −0.01195
Std Dev 0.5485

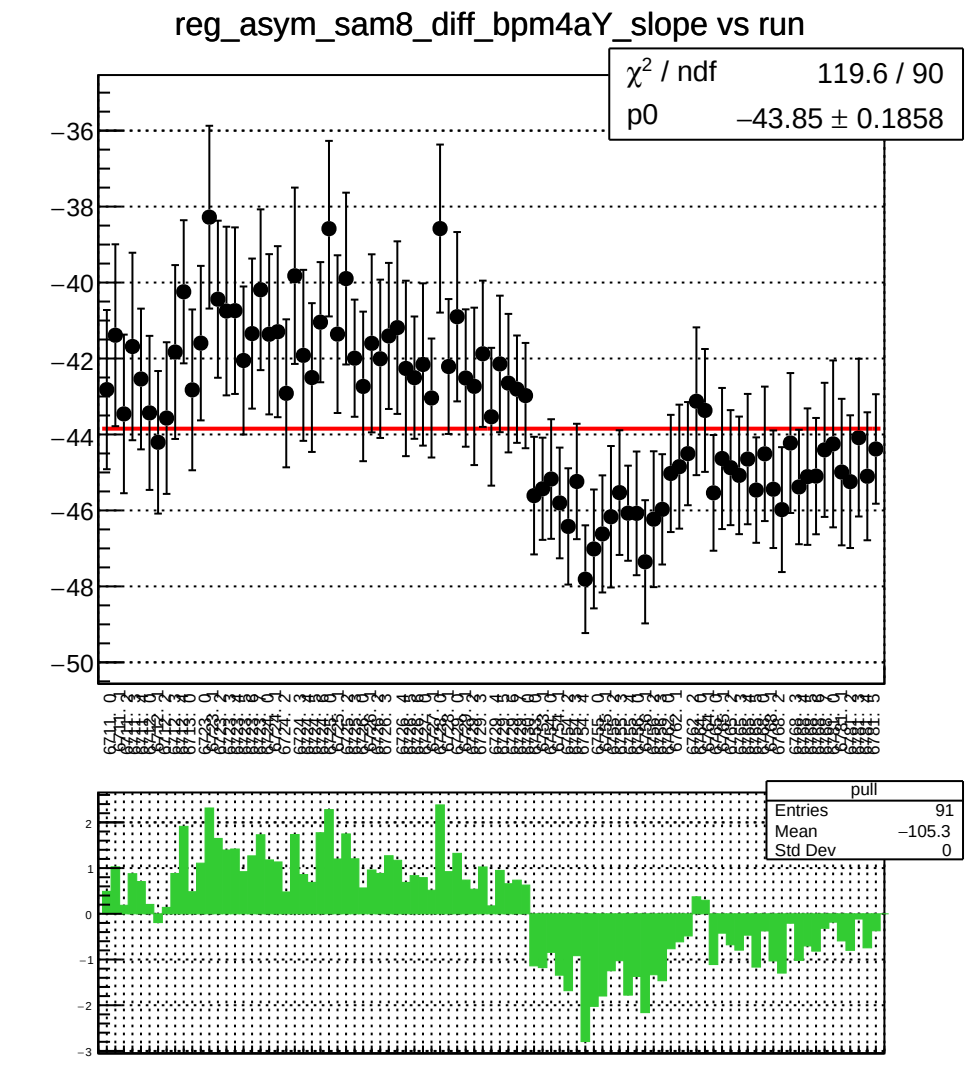

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 114.3 / 90
p0 −50.53 ± 0.3332
pull
Entries 91
Mean 275.7
Std Dev 0
pull1D
Entries 91
Mean −0.08802
Std Dev 1.117

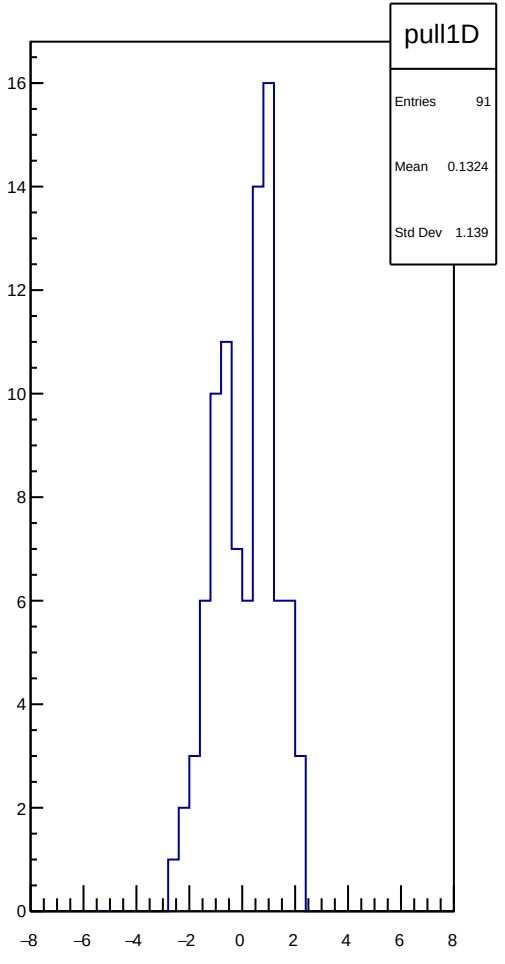

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 36.74 / 90
p0 −15.04 ± 0.2533
pull
Entries 91
Mean −337.4
Std Dev 0
pull1D
Entries 91
Mean 0.02489
Std Dev 0.6349

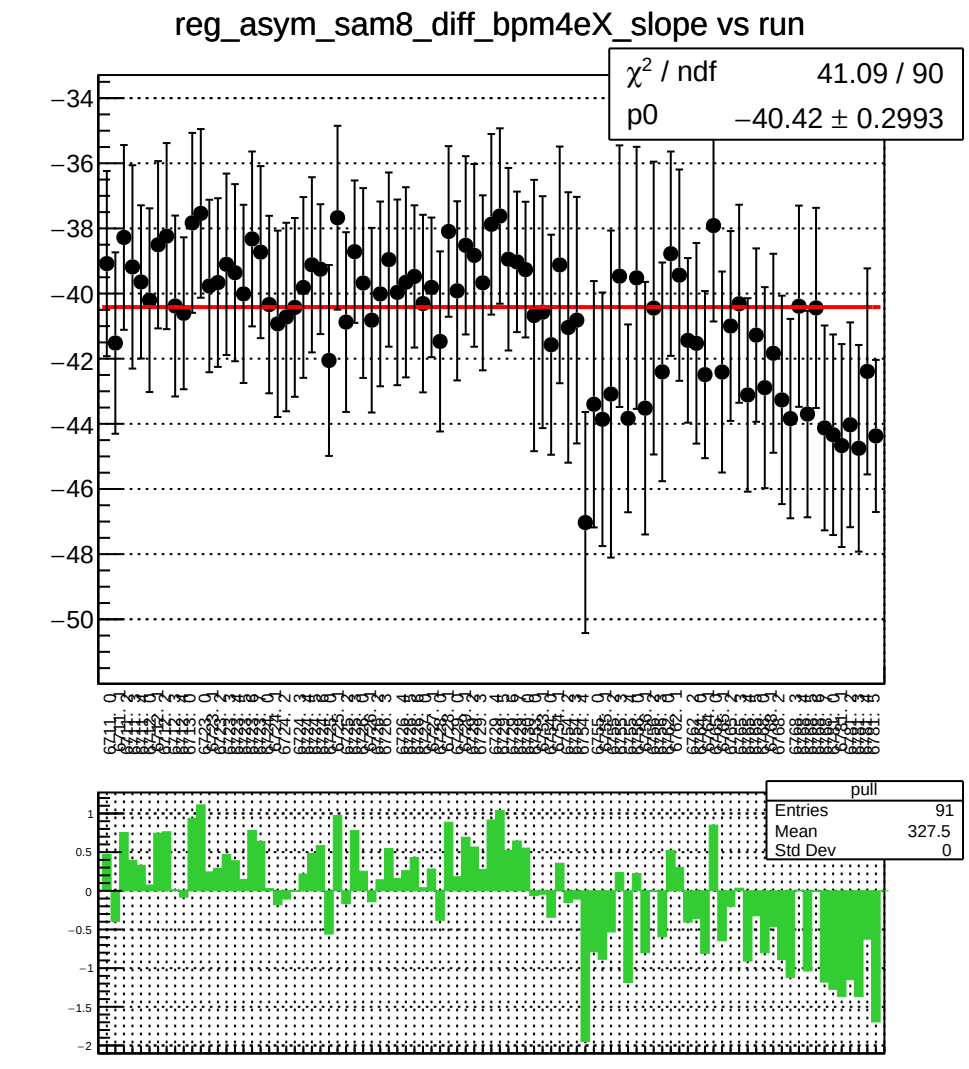

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 35 / 90
p0 0.3473 ± 0.0144
pull
Entries 91
Mean 480.6
Std Dev 0

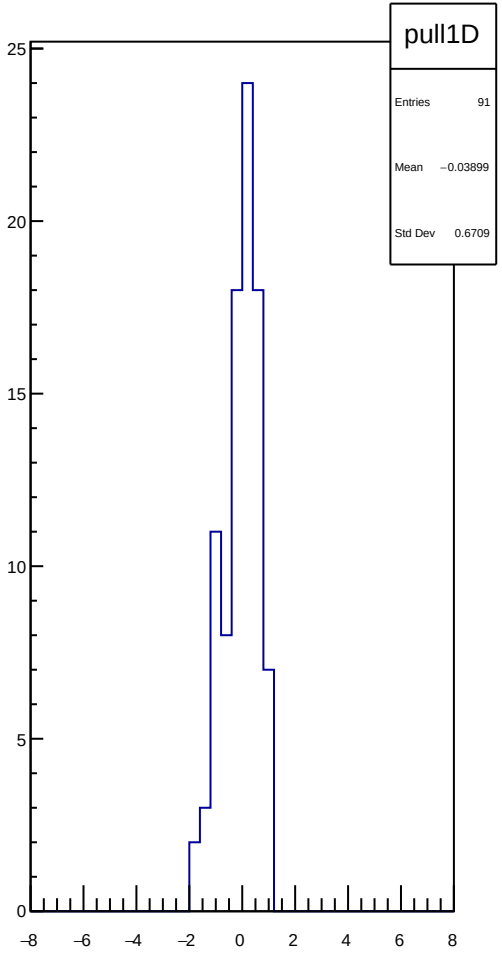

pull1D
Entries 91
Mean 0.01506
Std Dev 0.62

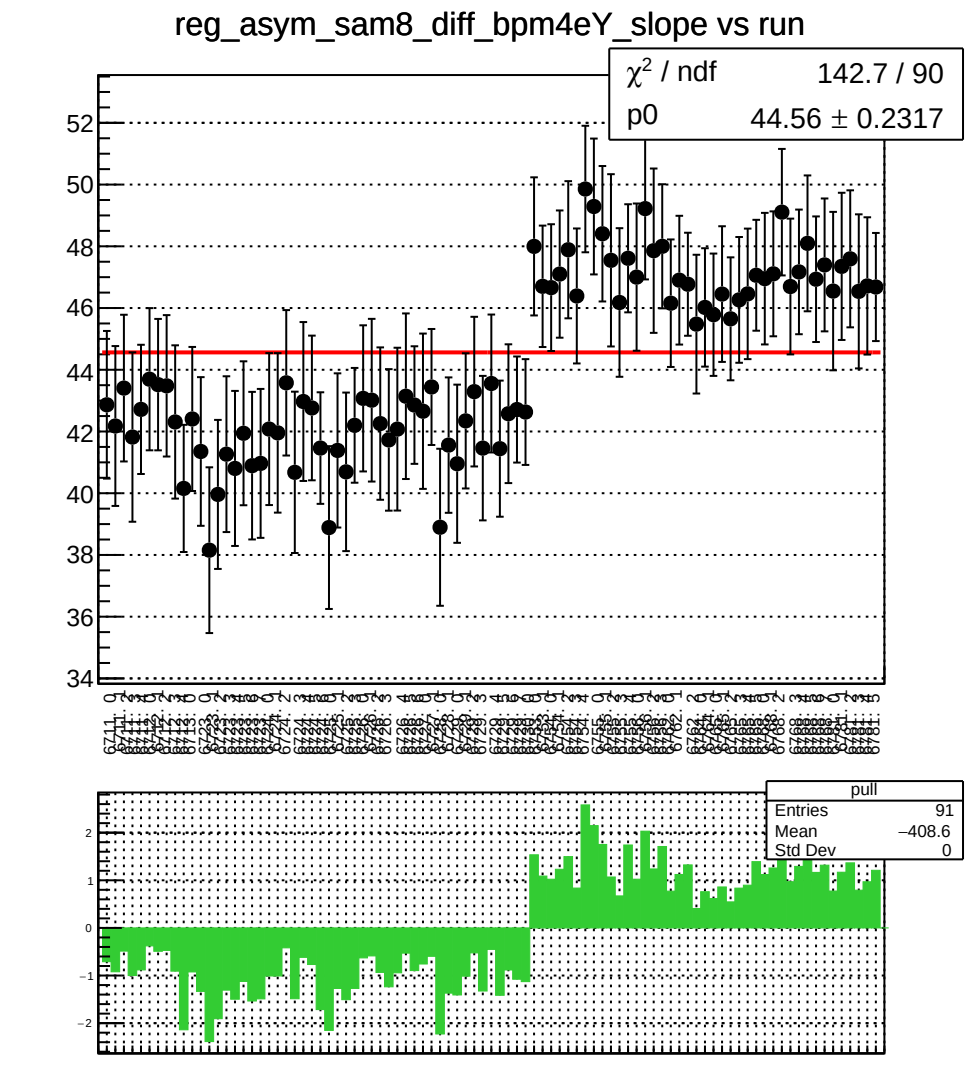

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 16.97 / 90
p0 12.97 ± 0.3113
pull
Entries 91
Mean −40.04
Std Dev 0
pull1D
Entries 91
Mean −0.005609
Std Dev 0.4319

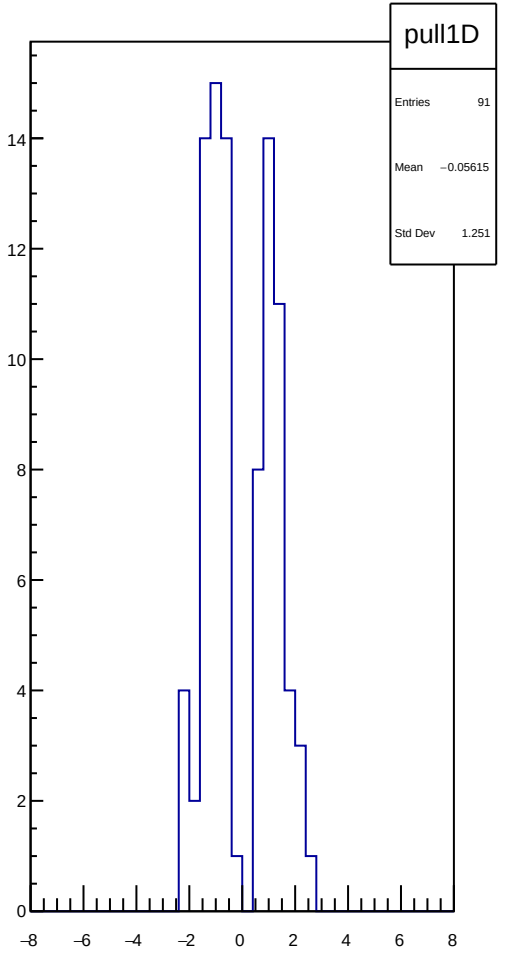

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 119.6 / 90
p0 −43.85 ± 0.1858
pull
Entries 91
Mean −105.3
Std Dev 0

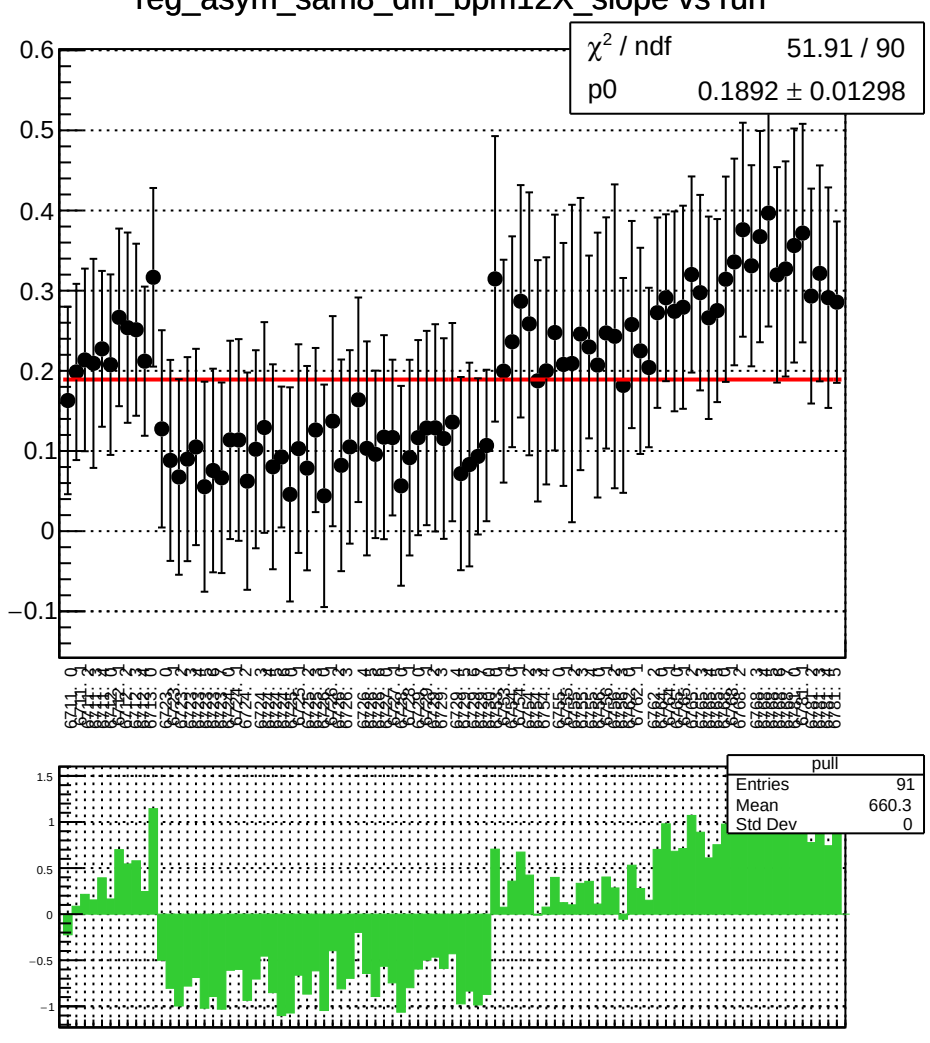

pull1D
Entries 91
Mean 0.1324
Std Dev 1.139

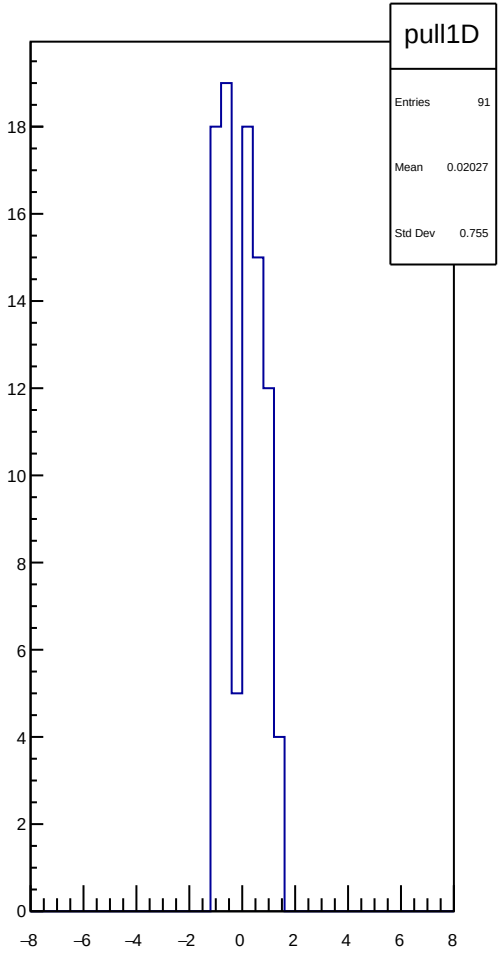

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 41.09 / 90
p0 −40.42 ± 0.2993
pull
Entries 91
Mean 327.5
Std Dev 0

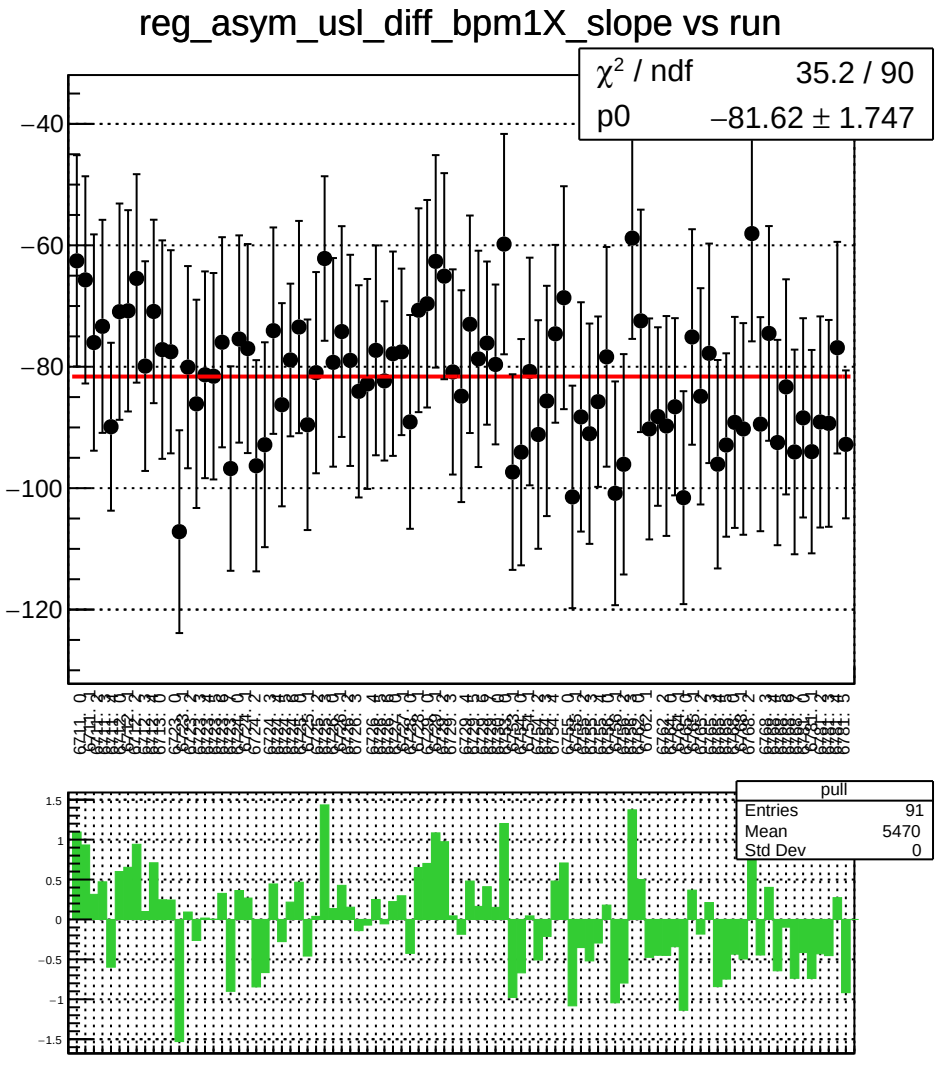

pull1D
Entries 91
Mean −0.03899
Std Dev 0.6709

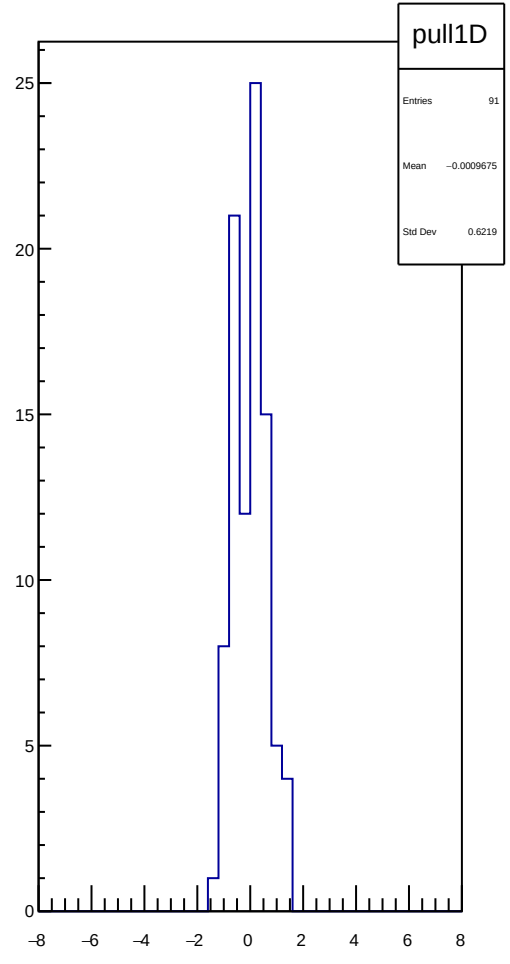

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 142.7 / 90
p0 44.56 ± 0.2317
pull
Entries 91
Mean −408.6
Std Dev 0

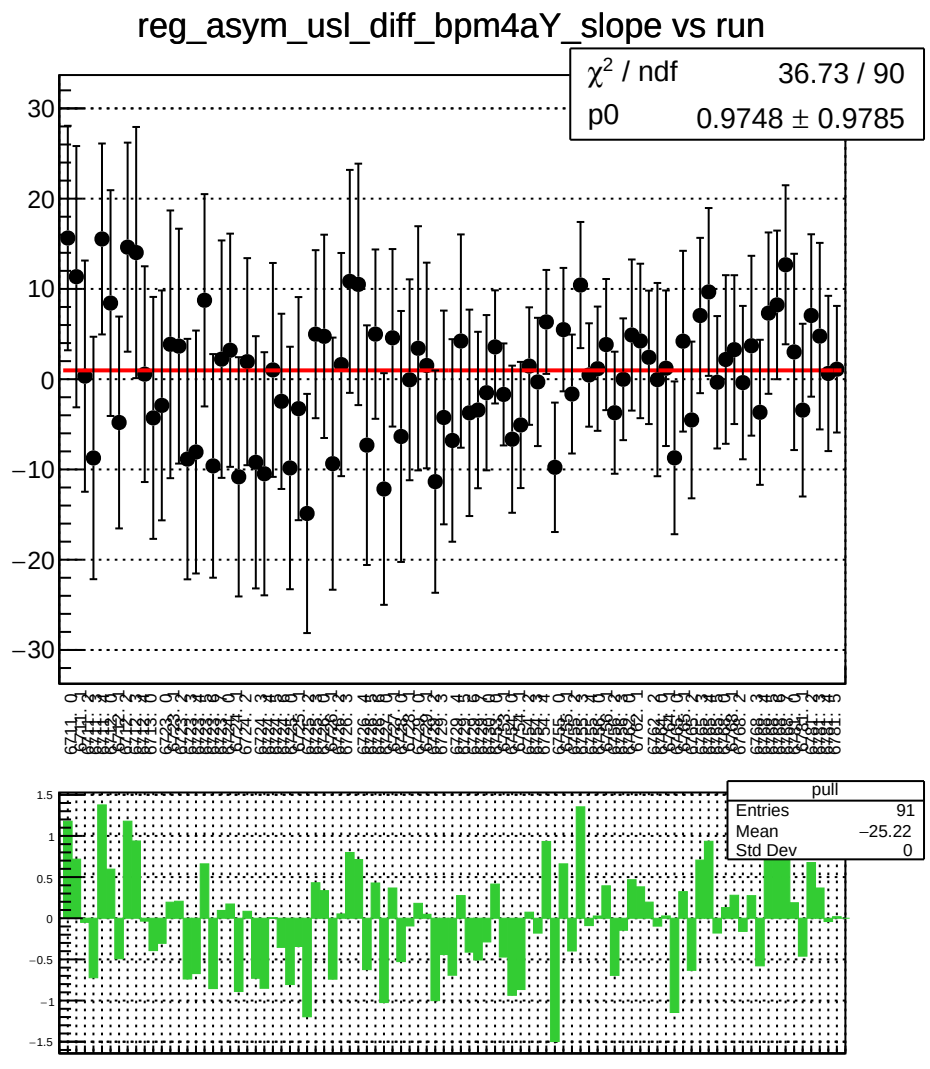

pull1D
Entries 91
Mean −0.05615
Std Dev 1.251

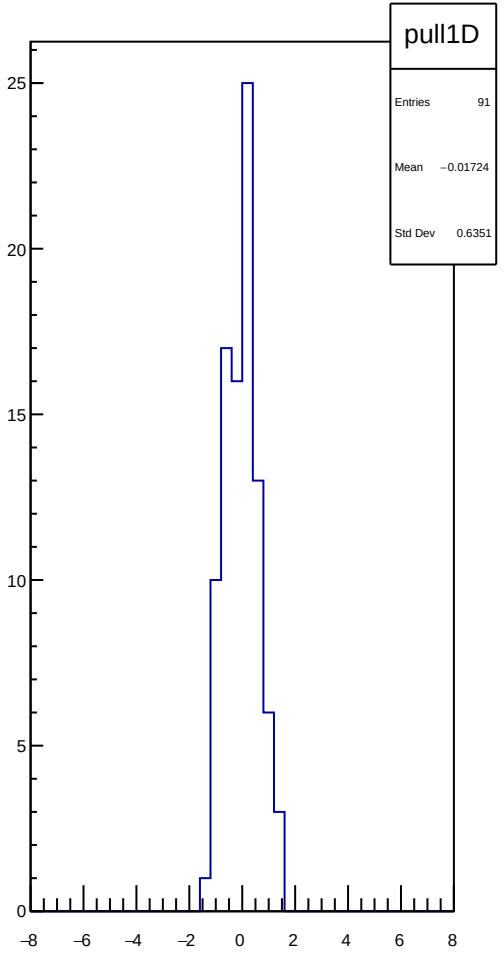

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 51.91 / 90
p0 0.1892 ± 0.01298
pull
Entries 91
Mean 660.3
Std Dev 0

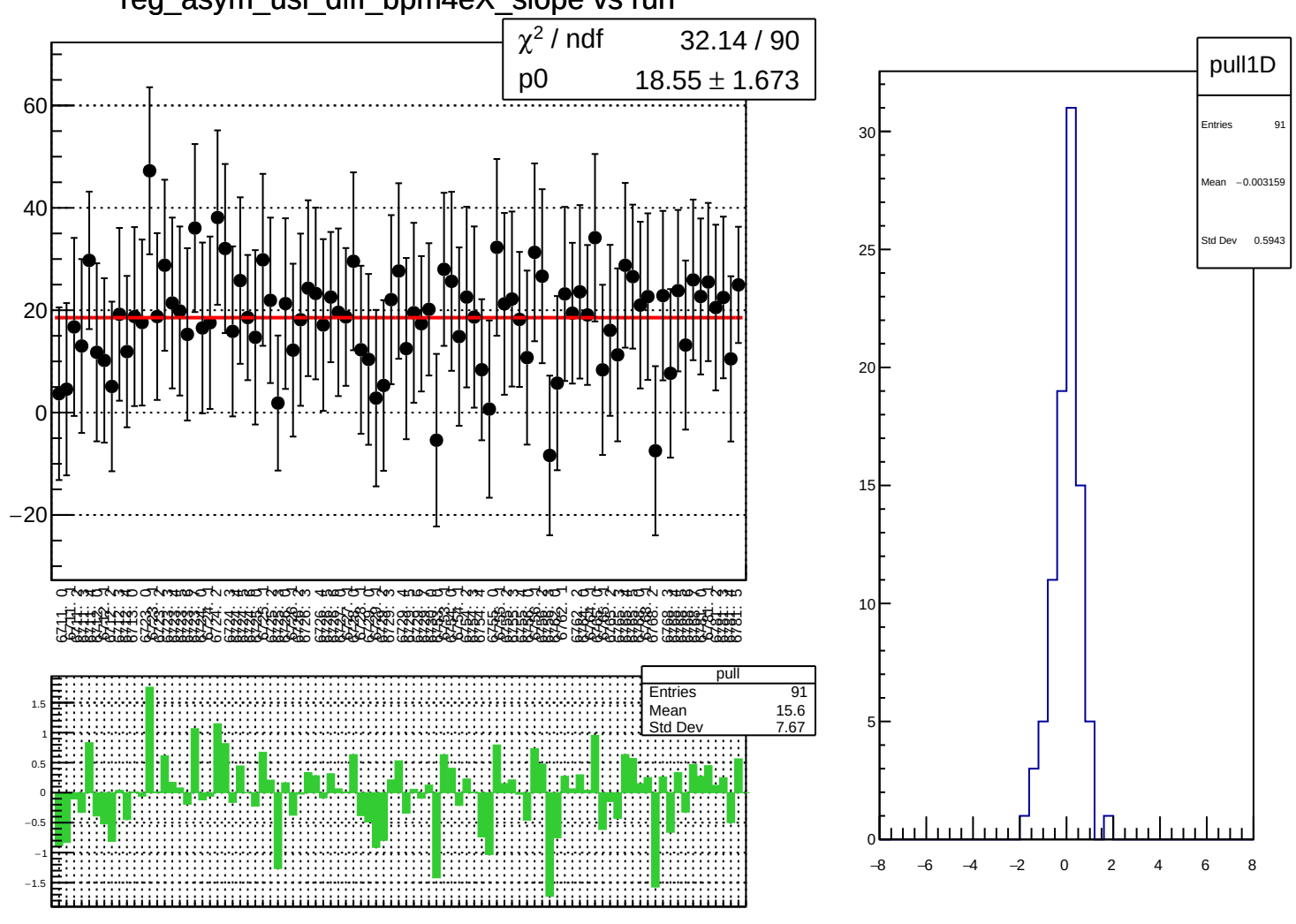

pull1D
Entries 91
Mean 0.02027
Std Dev 0.755

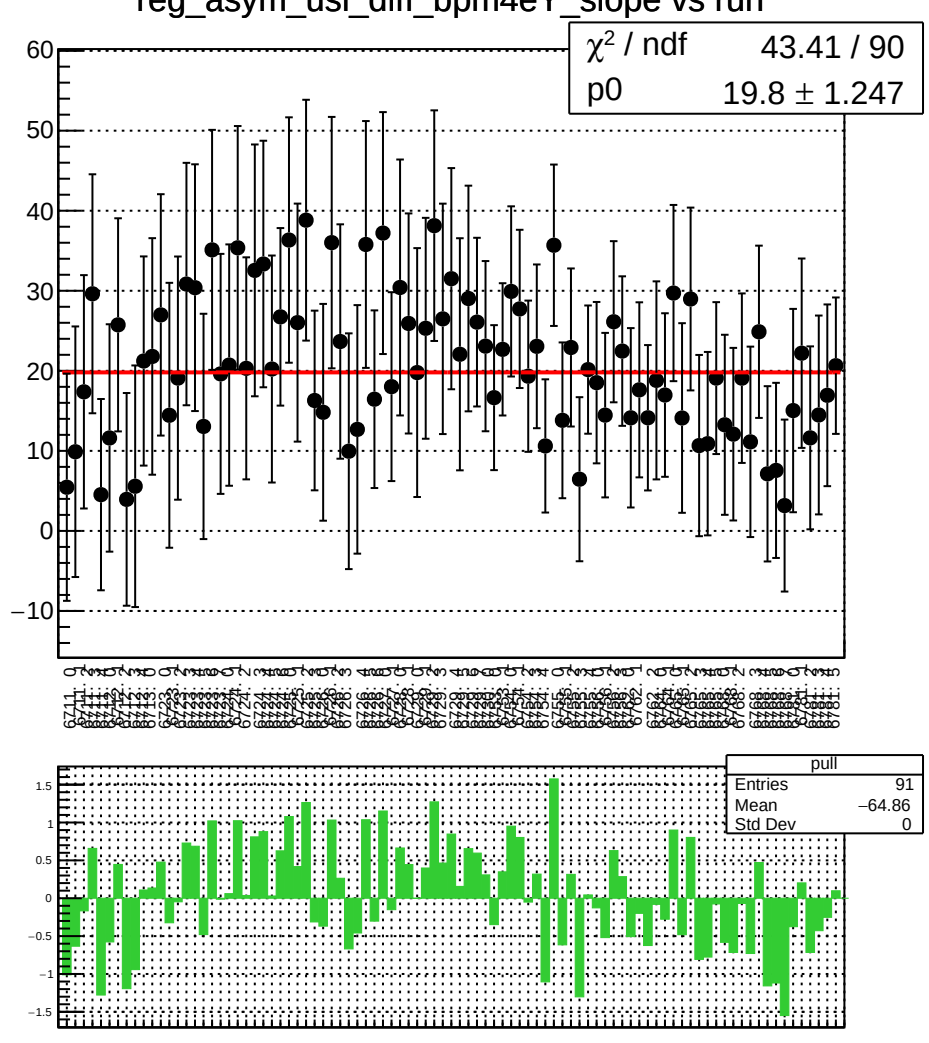

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 35.2 / 90
p0 −81.62 ± 1.747
−40
−60
−80
−100
−120
pull
Entries 91
Mean 5470
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

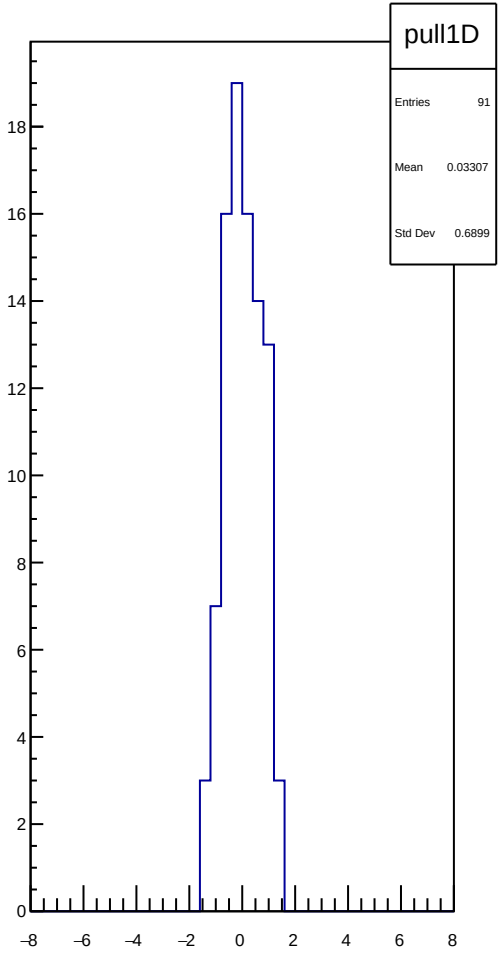

pull1D
Entries 91
Mean −0.0009675
Std Dev 0.6219
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

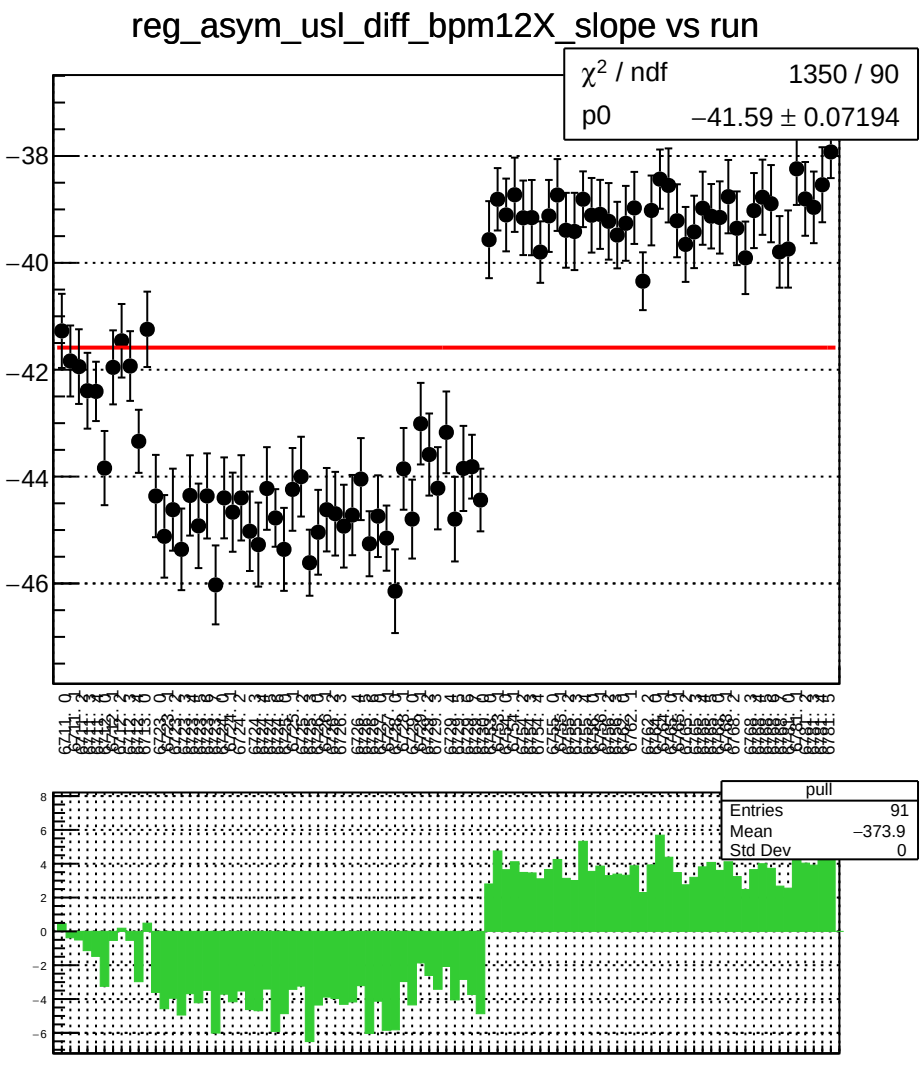

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 36.73 / 90
p0 0.9748 ± 0.9785
pull
Entries 91
Mean −25.22
Std Dev 0

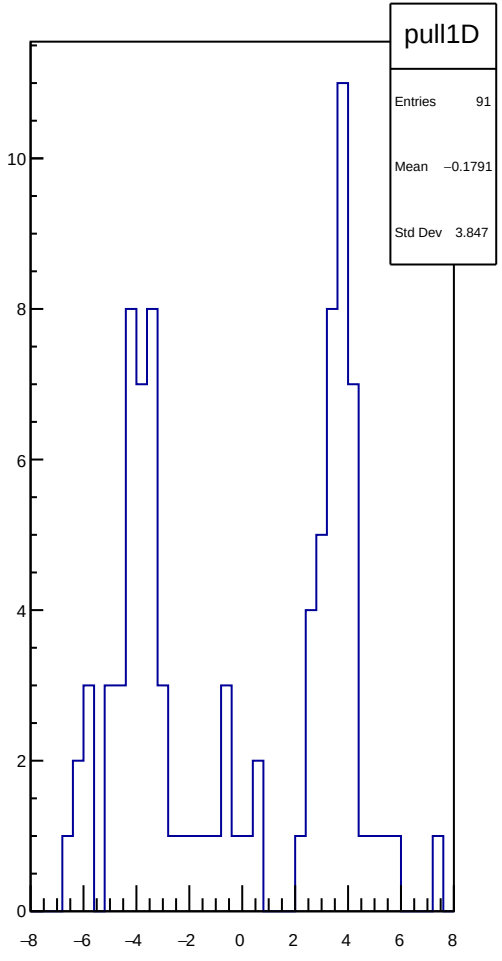

pull1D
Entries 91
Mean −0.01724
Std Dev 0.6351

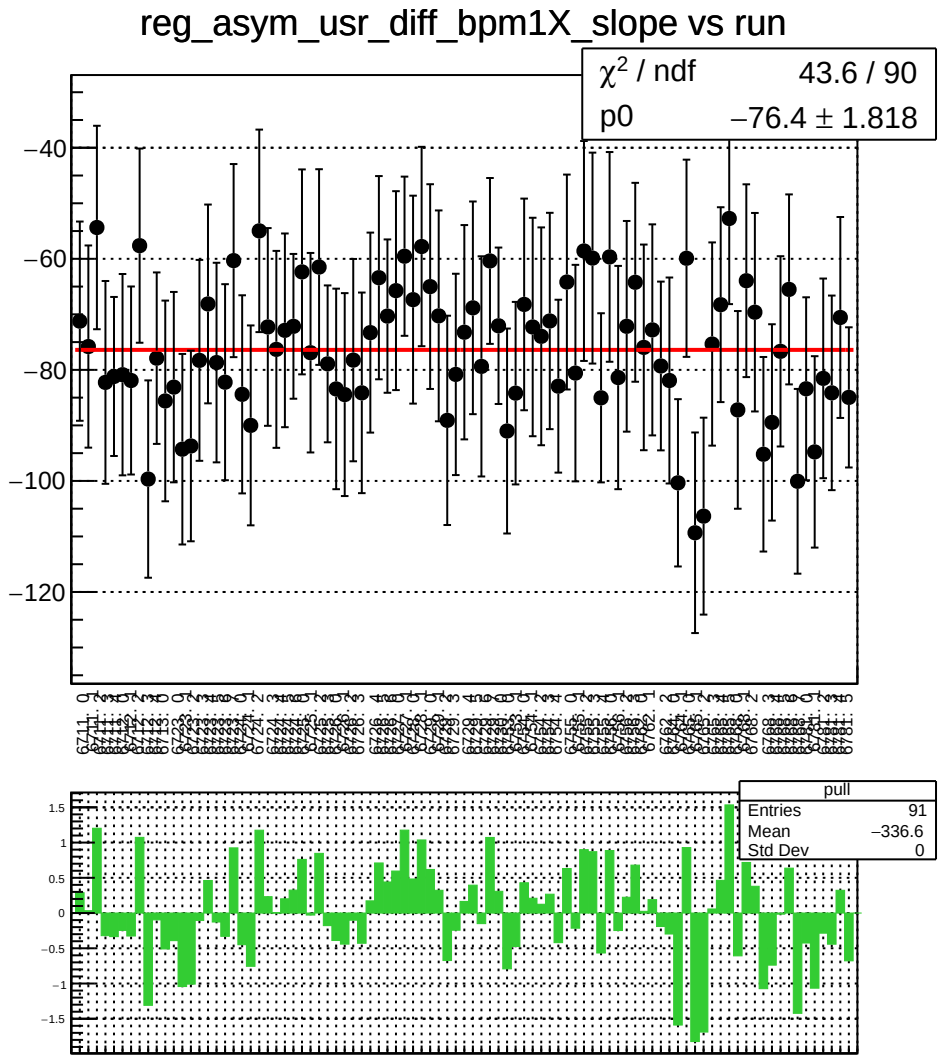

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 32.14 / 90
p0 18.55 ± 1.673
pull
Entries 91
Mean 15.6
Std Dev 7.67
pull1D
Entries 91
Mean −0.003159
Std Dev 0.5943

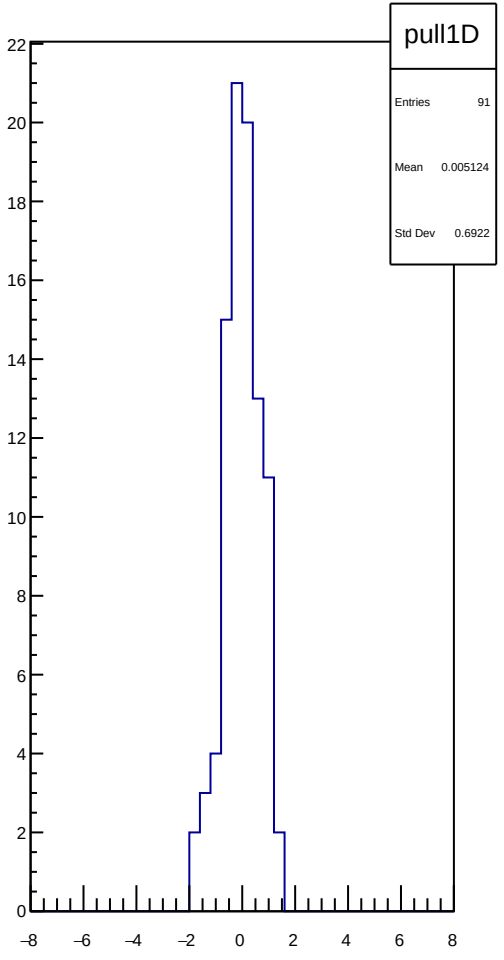

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 43.41 / 90
p0 19.8 ± 1.247
pull
Entries 91
Mean −64.86
Std Dev 0

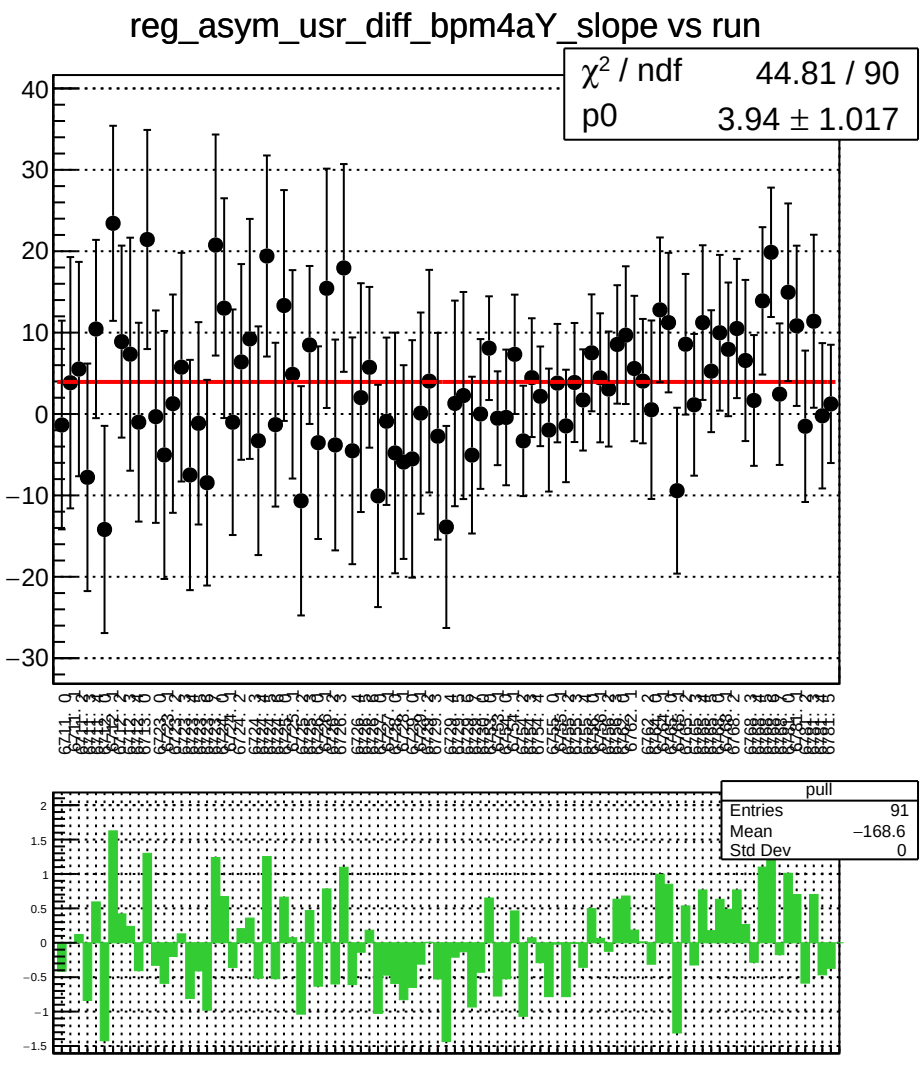

pull1D
Entries 91
Mean 0.03307
Std Dev 0.6899

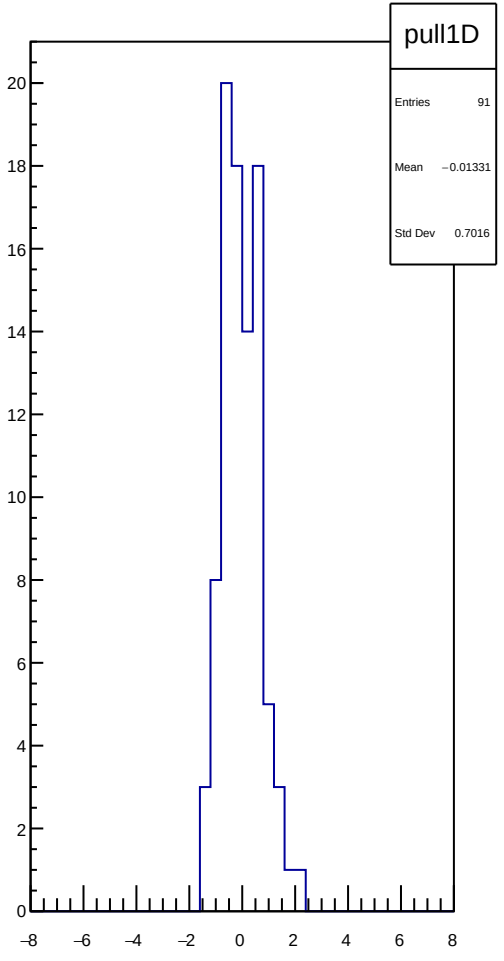

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 1350 / 90
p0 −41.59 ± 0.07194
−38
−40
−42
−44
−46
pull
Entries 91
Mean −373.9
Std Dev 0
8
6
4
2
0
−2
−4
−6

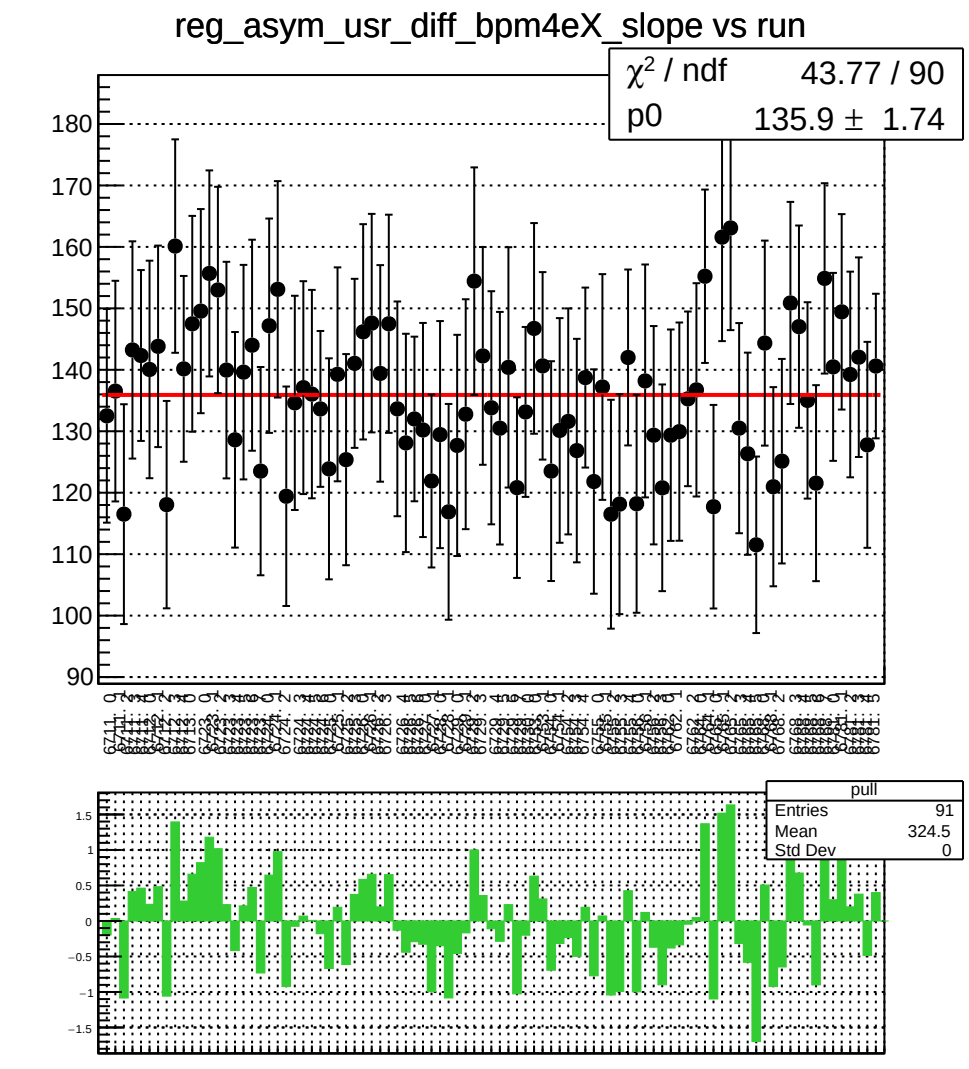

pull1D
Entries 91
Mean −0.1791
Std Dev 3.847
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

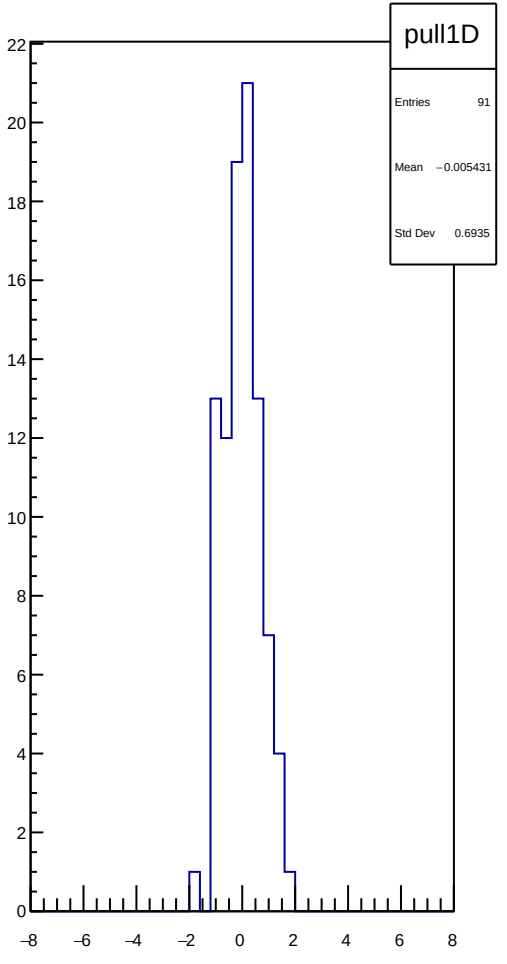

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 43.6 / 90
p0 −76.4 ± 1.818
pull
Entries 91
Mean −336.6
Std Dev 0

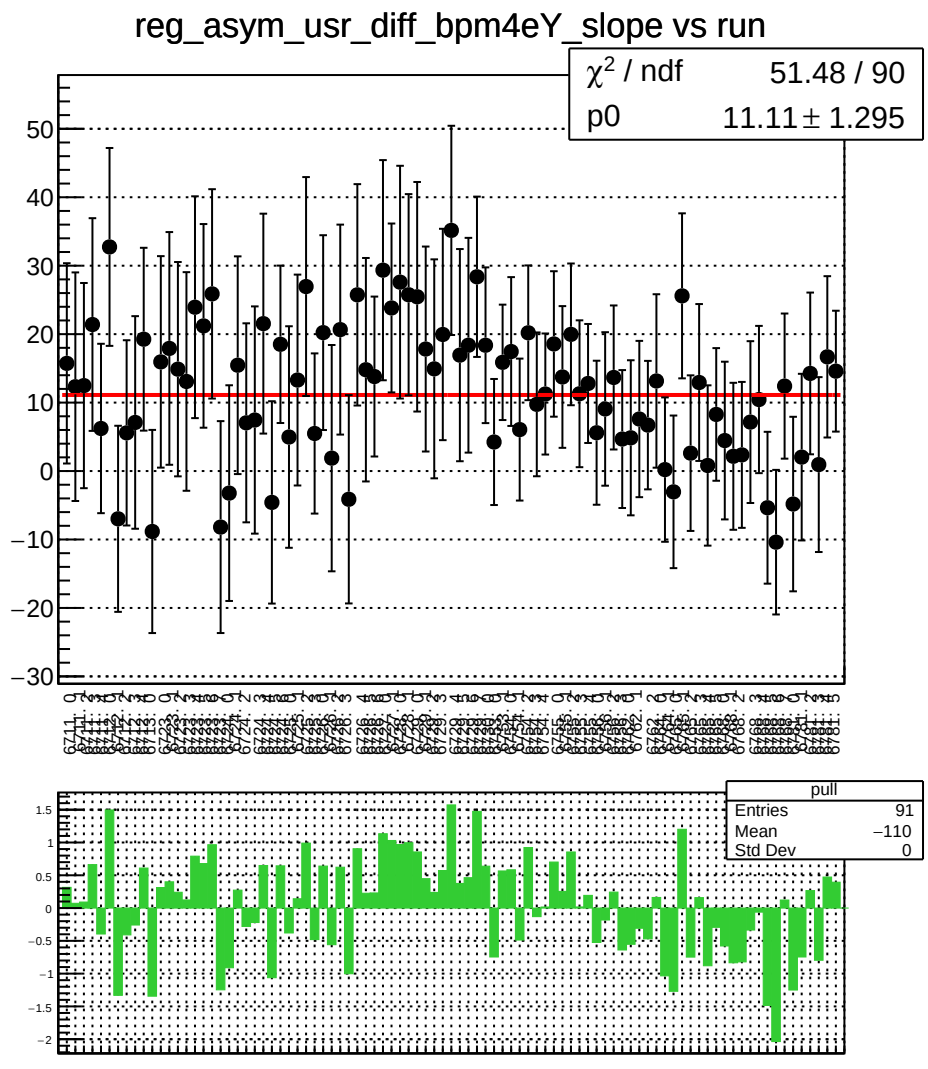

pull1D
Entries 91
Mean 0.005124
Std Dev 0.6922

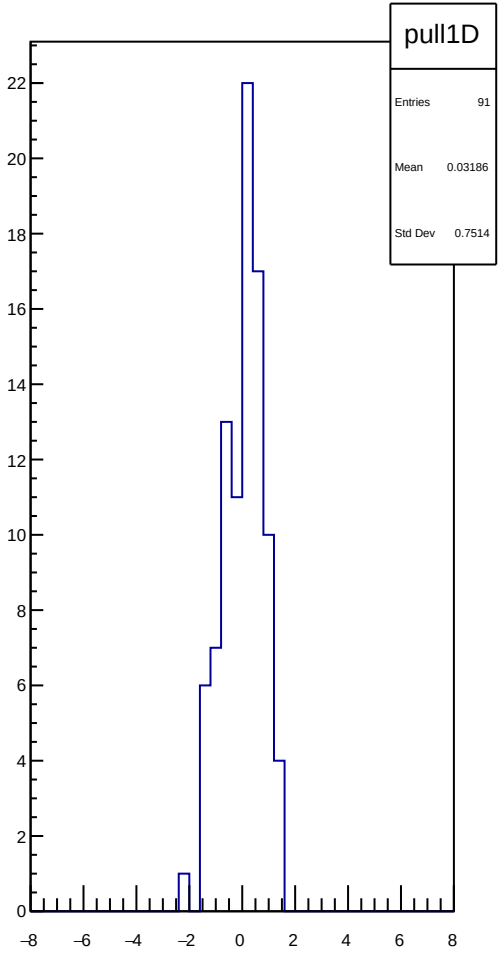

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 44.81 / 90
p0 3.94 ± 1.017
pull
Entries 91
Mean −168.6
Std Dev 0

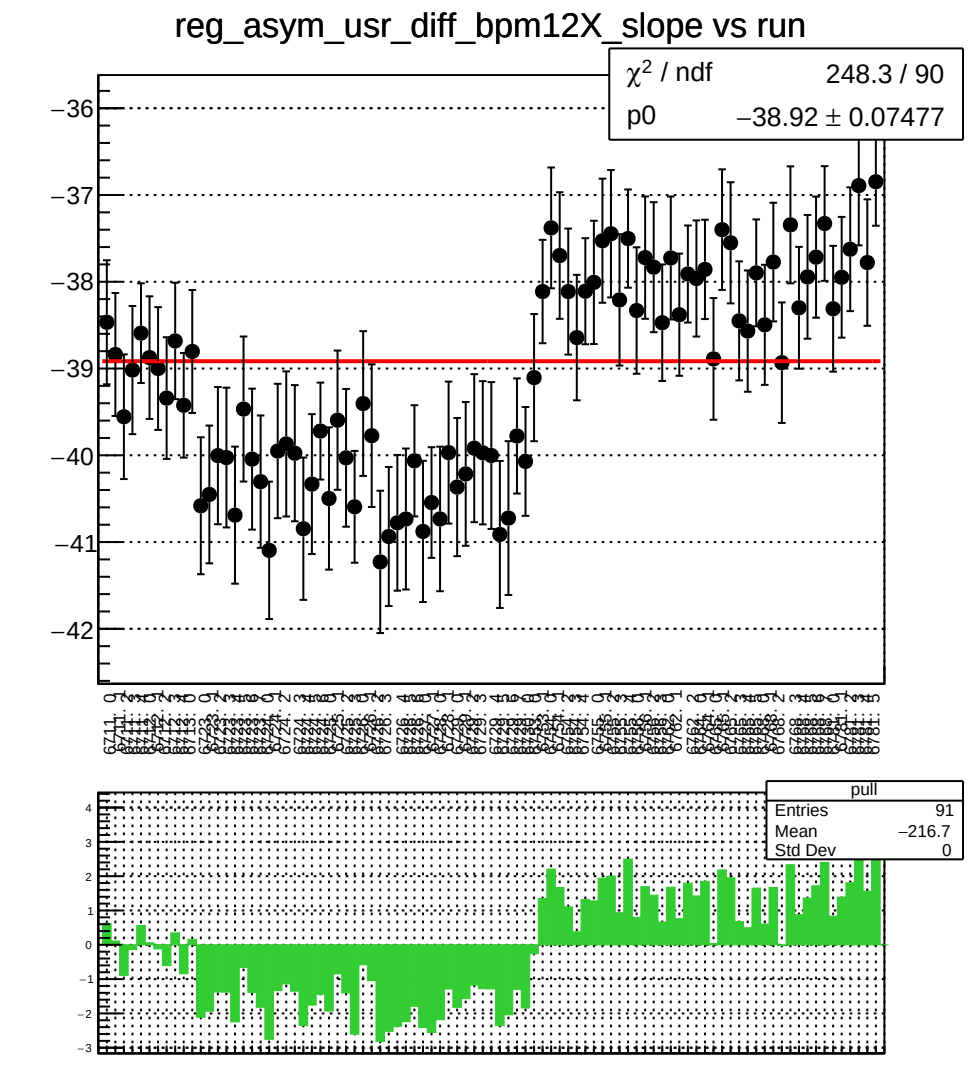

pull1D
Entries 91
Mean −0.01331
Std Dev 0.7016

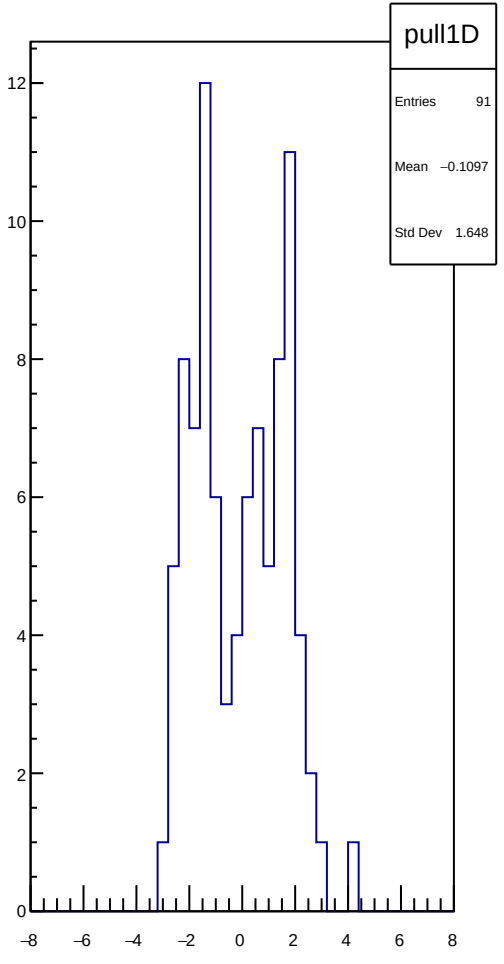

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 43.77 / 90
p0 135.9 ± 1.74
pull
Entries 91
Mean 324.5
Std Dev 0

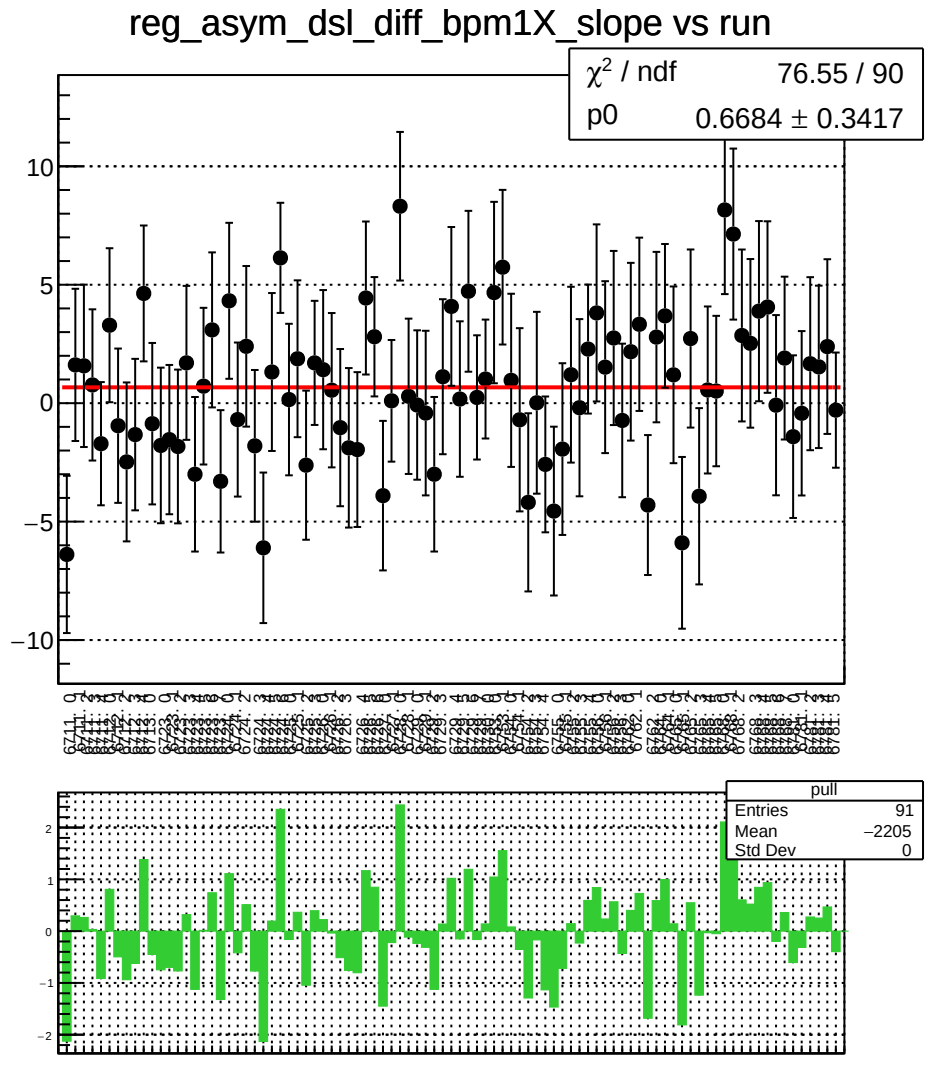

pull1D
Entries 91
Mean −0.005431
Std Dev 0.6935

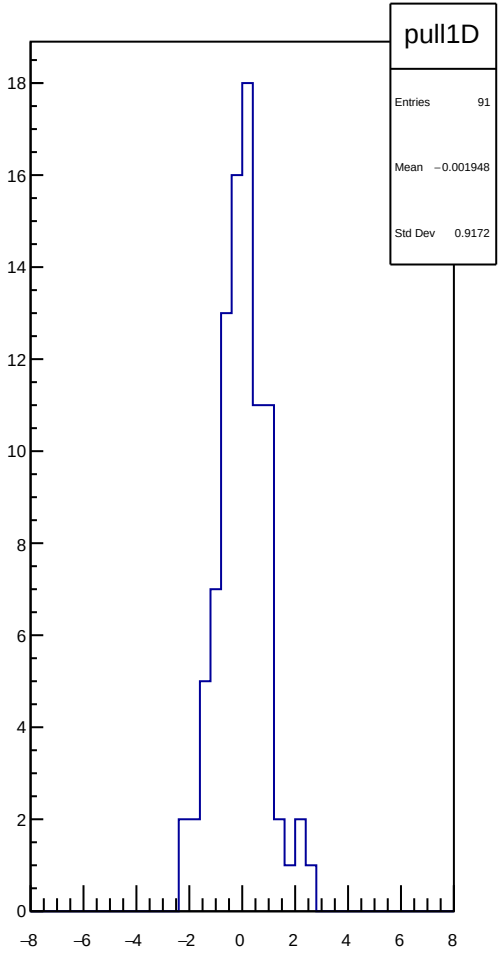

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 51.48 / 90
p0 11.11 ± 1.295
pull
Entries 91
Mean −110
Std Dev 0

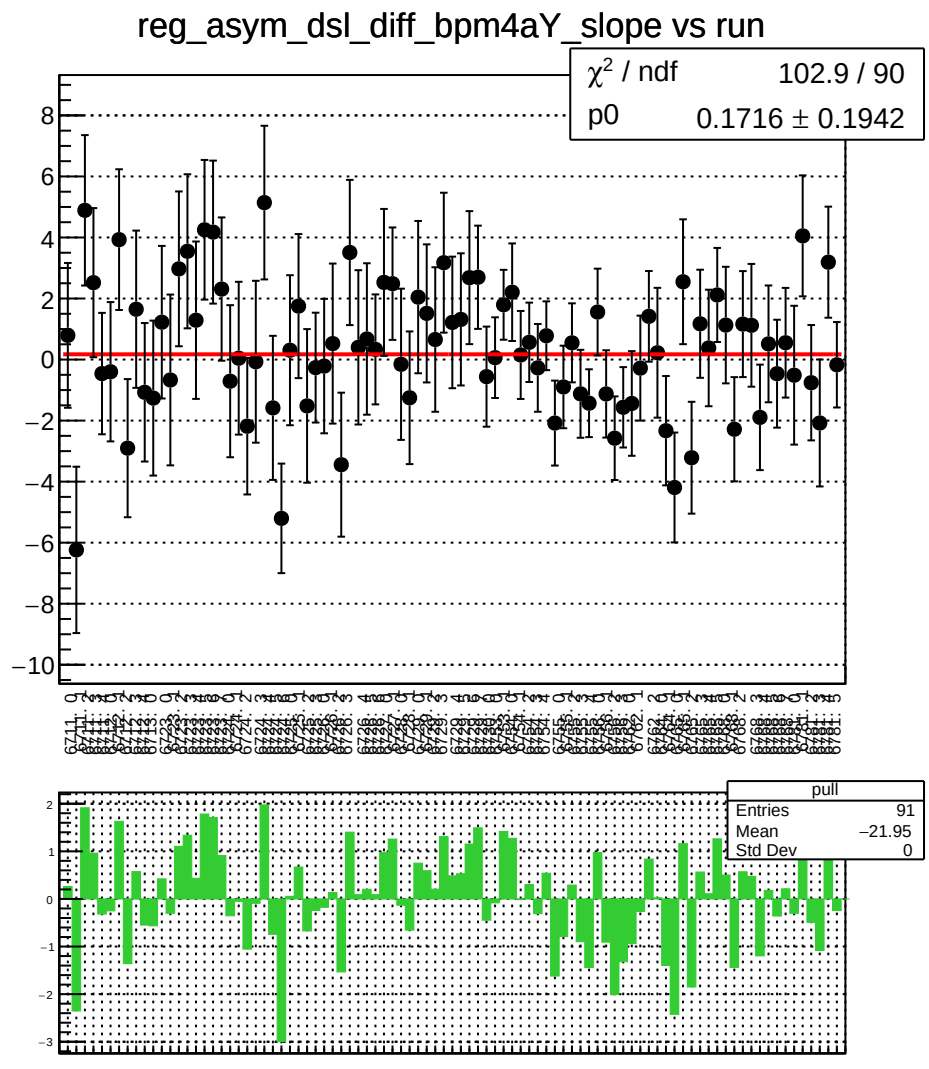

pull1D
Entries 91
Mean 0.03186
Std Dev 0.7514

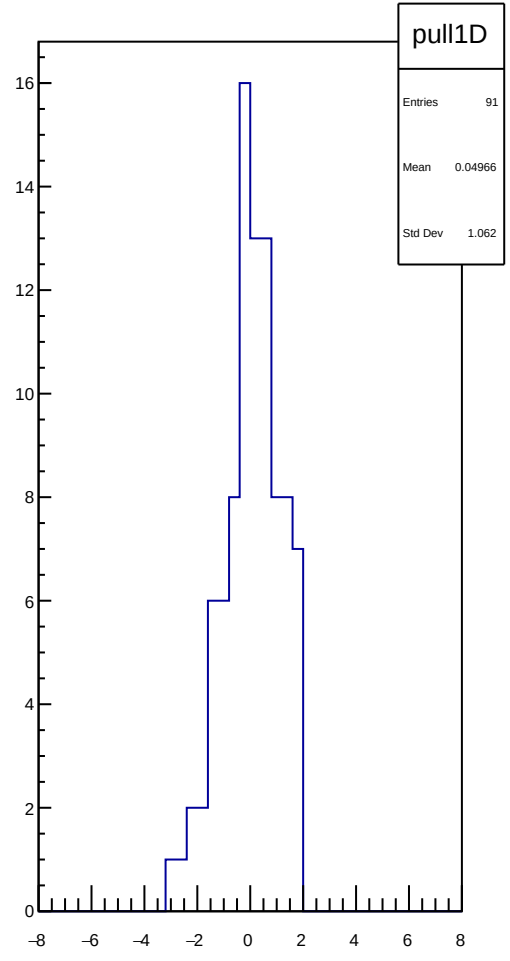

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 248.3 / 90
p0 −38.92 ± 0.07477
pull
Entries 91
Mean −216.7
Std Dev 0

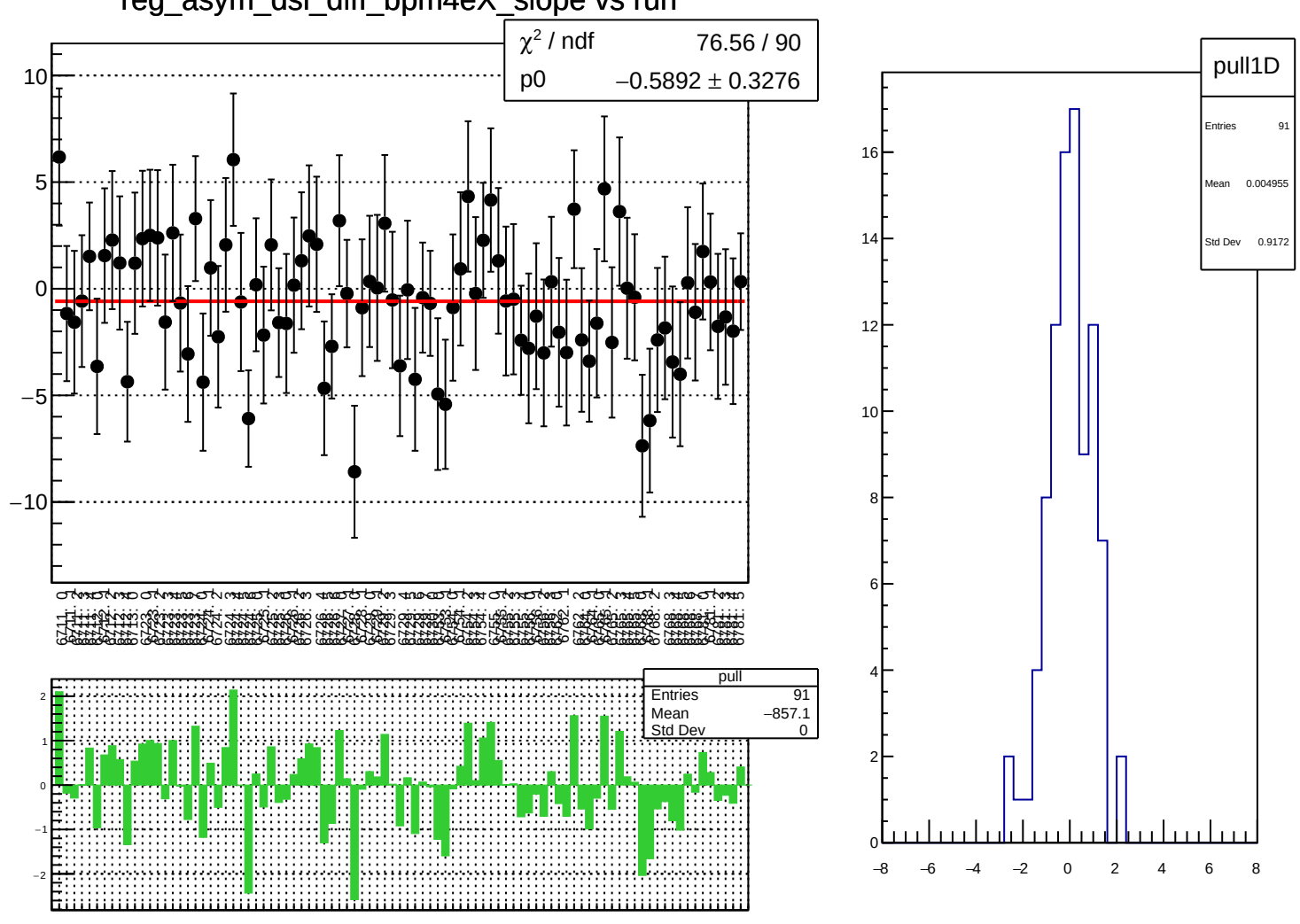

pull1D
Entries 91
Mean −0.1097
Std Dev 1.648

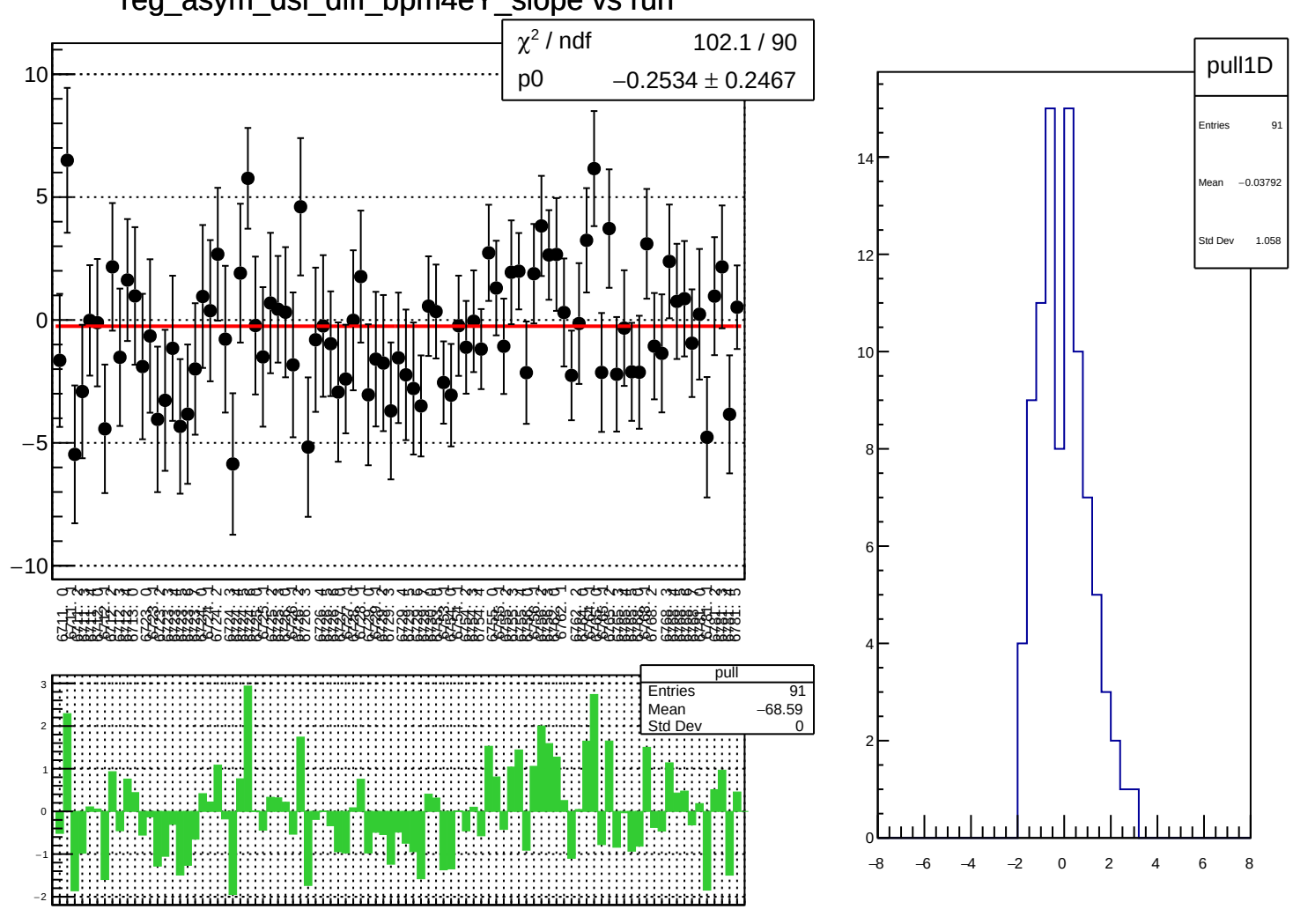

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 76.55 / 90
p0 0.6684 ± 0.3417
pull
Entries 91
Mean −2205
Std Dev 0

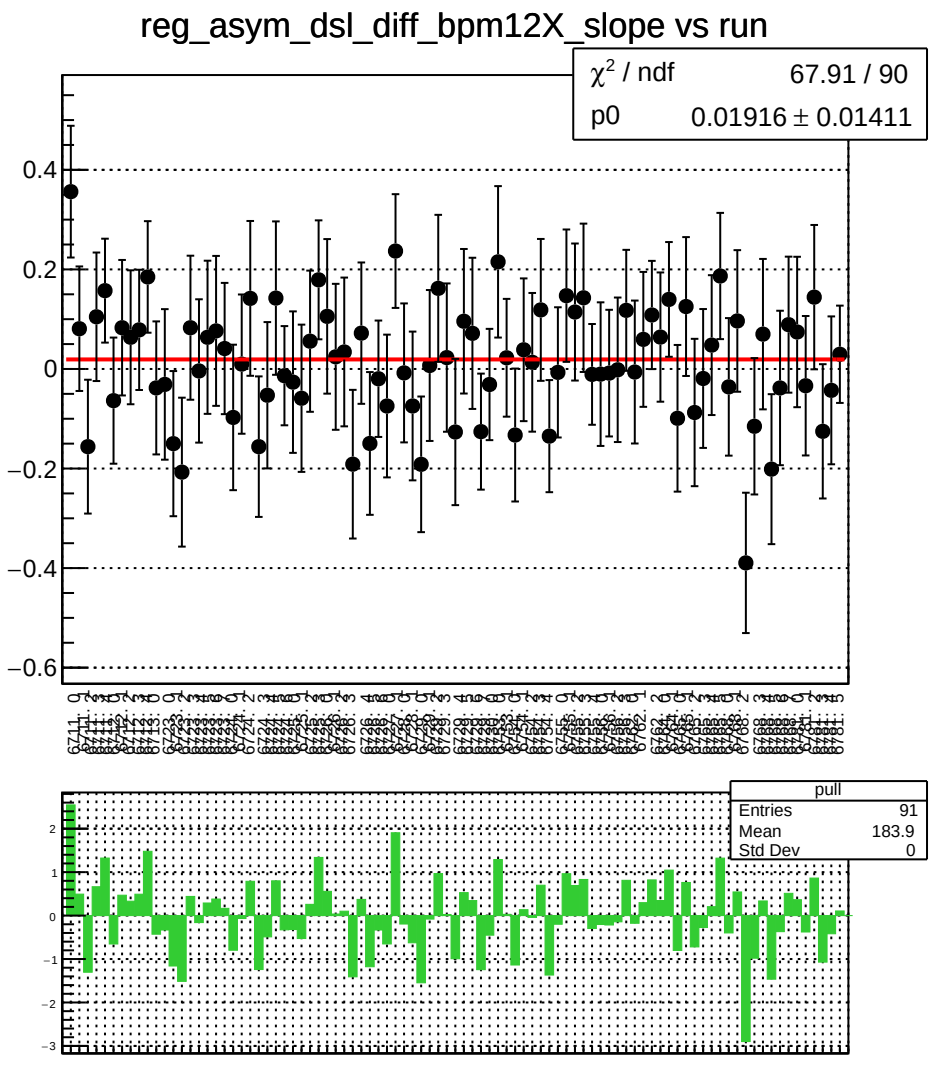

pull1D
Entries 91
Mean −0.001948
Std Dev 0.9172

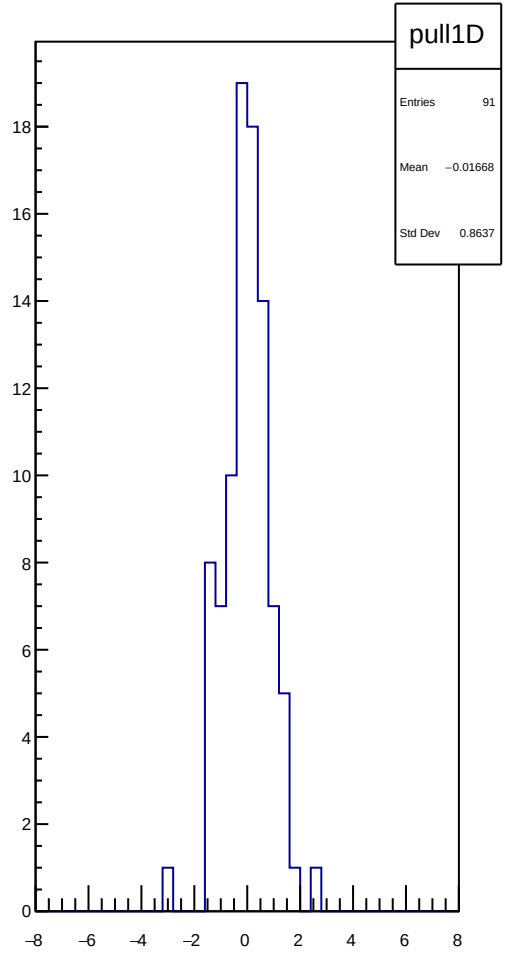

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 102.9 / 90
p0 0.1716 ± 0.1942
pull
Entries 91
Mean −21.95
Std Dev 0

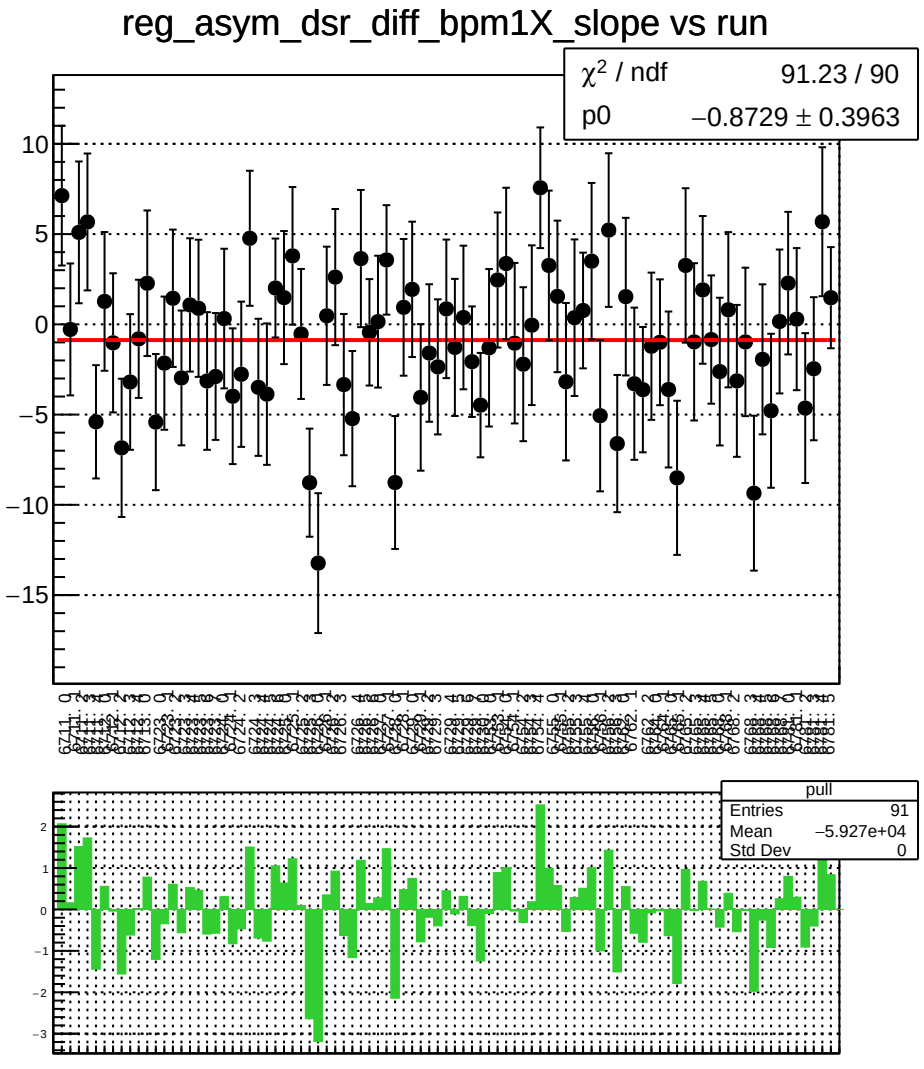

pull1D
Entries 91
Mean 0.04966
Std Dev 1.062

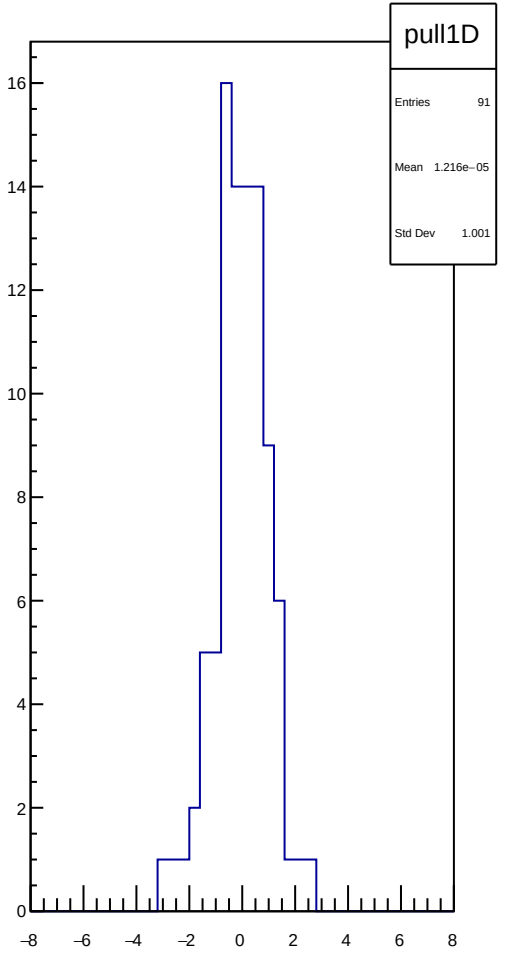

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 76.56 / 90
p0 −0.5892 ± 0.3276
pull
Entries 91
Mean −857.1
Std Dev 0
pull1D
Entries 91
Mean 0.004955
Std Dev 0.9172

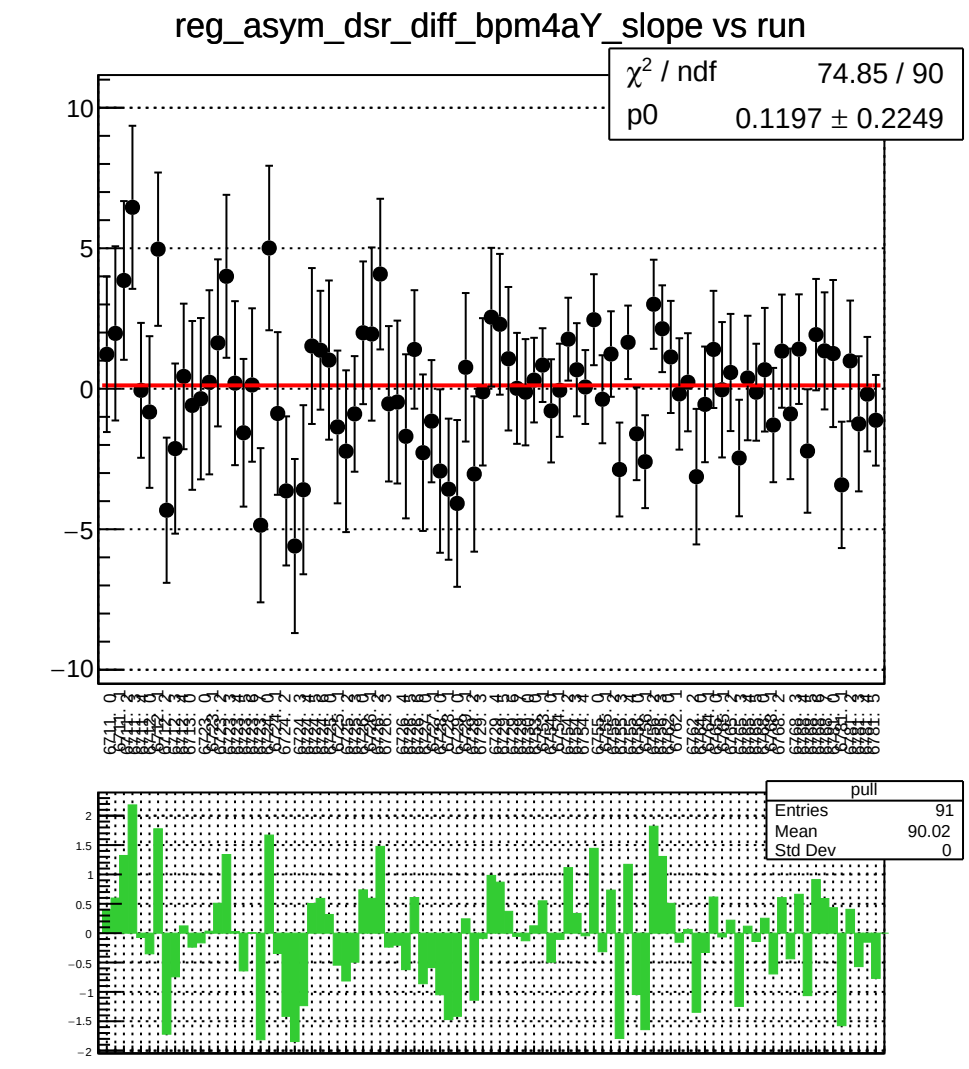

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 102.1 / 90
p0 −0.2534 ± 0.2467
pull
Entries 91
Mean −68.59
Std Dev 0
pull1D
Entries 91
Mean −0.03792
Std Dev 1.058

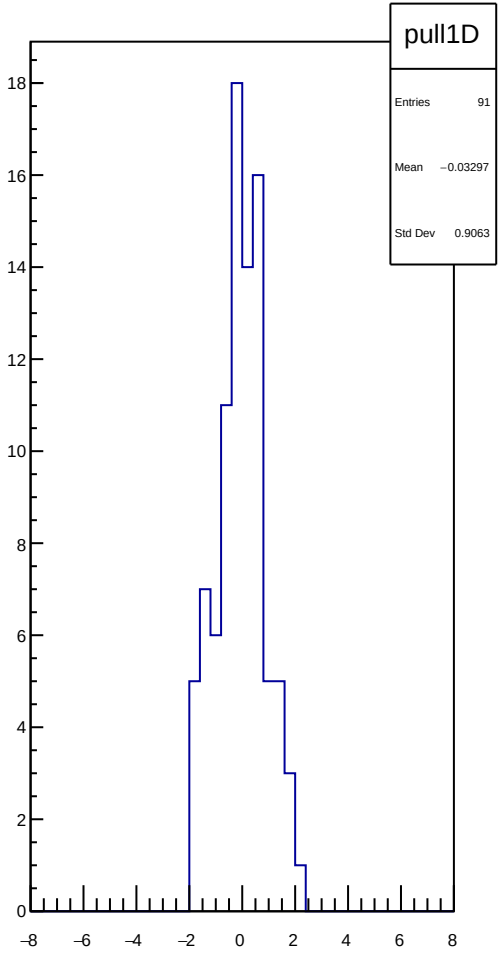

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 67.91 / 90
p0 0.01916 ± 0.01411
pull
Entries 91
Mean 183.9
Std Dev 0

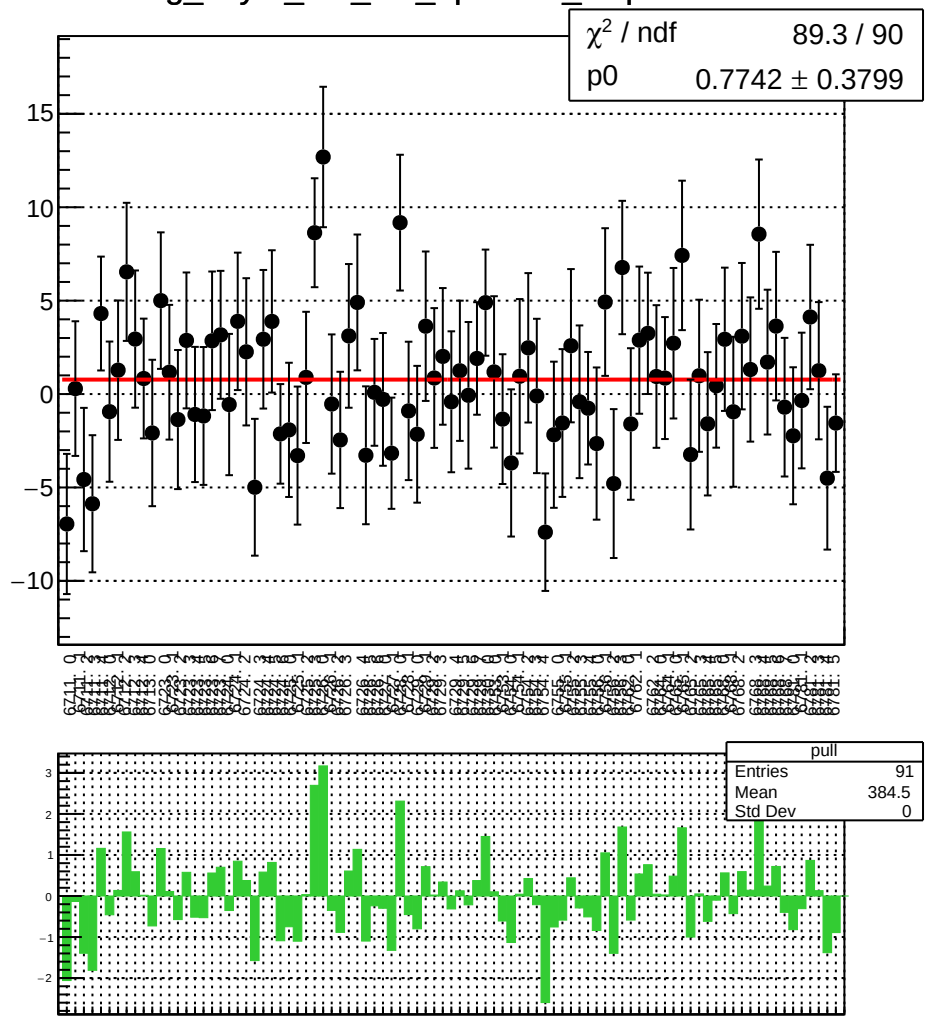

pull1D
Entries 91
Mean −0.01668
Std Dev 0.8637

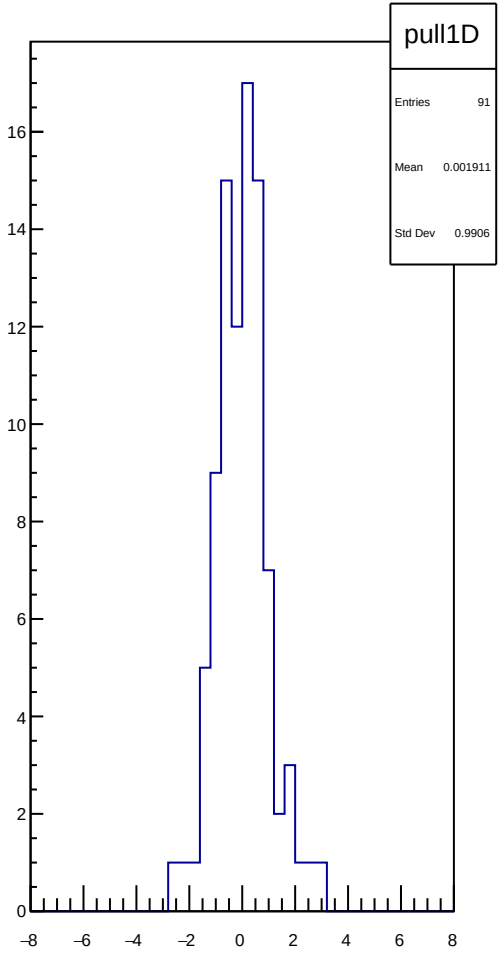

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 91.23 / 90
p0 −0.8729 ± 0.3963
pull
Entries 91
Mean −5.927e+04
Std Dev 0

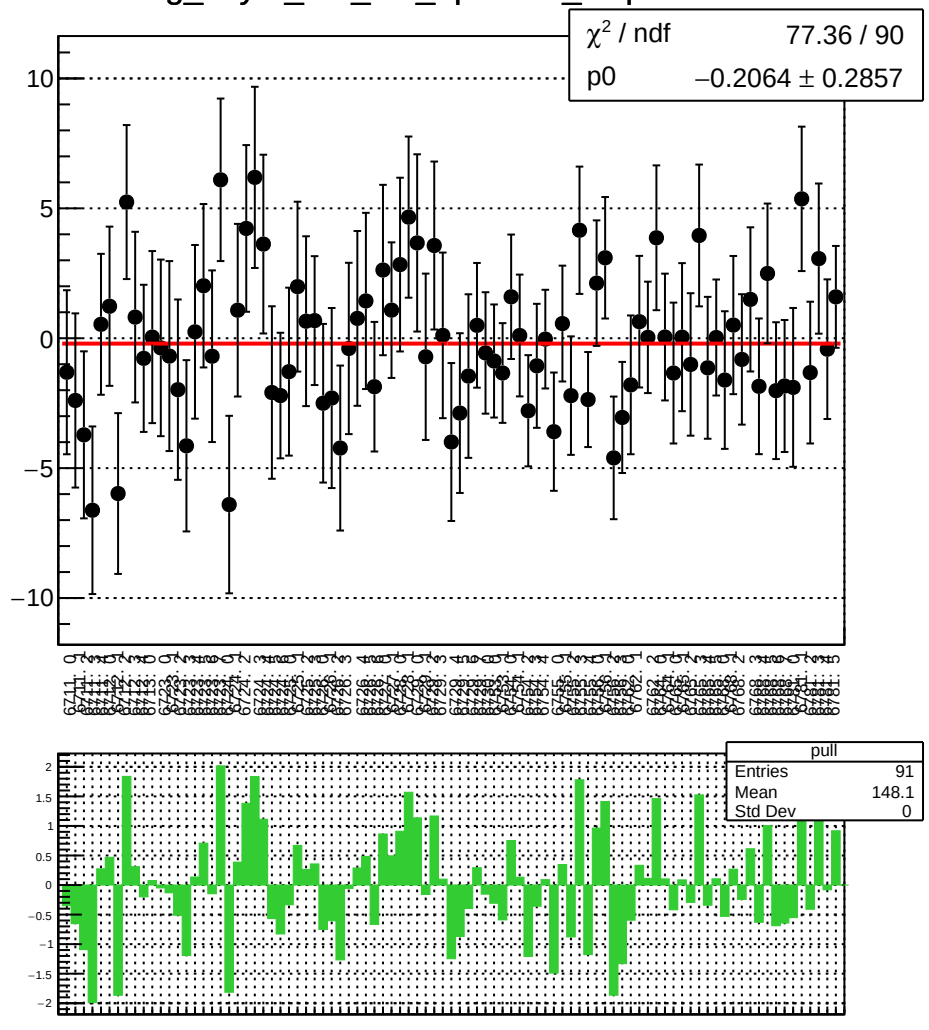

pull1D
Entries 91
Mean 1.216e−05
Std Dev 1.001

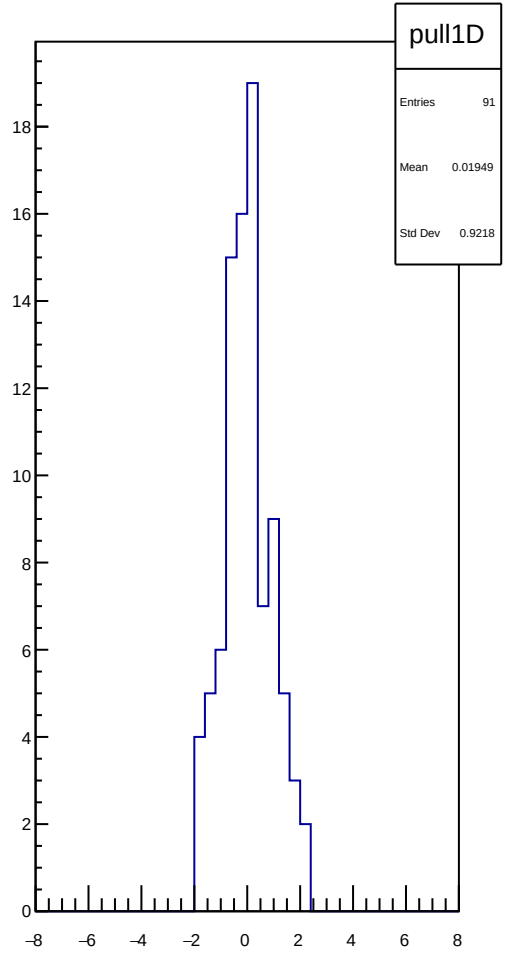

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 74.85 / 90
p0 0.1197 ± 0.2249
pull
Entries 91
Mean 90.02
Std Dev 0

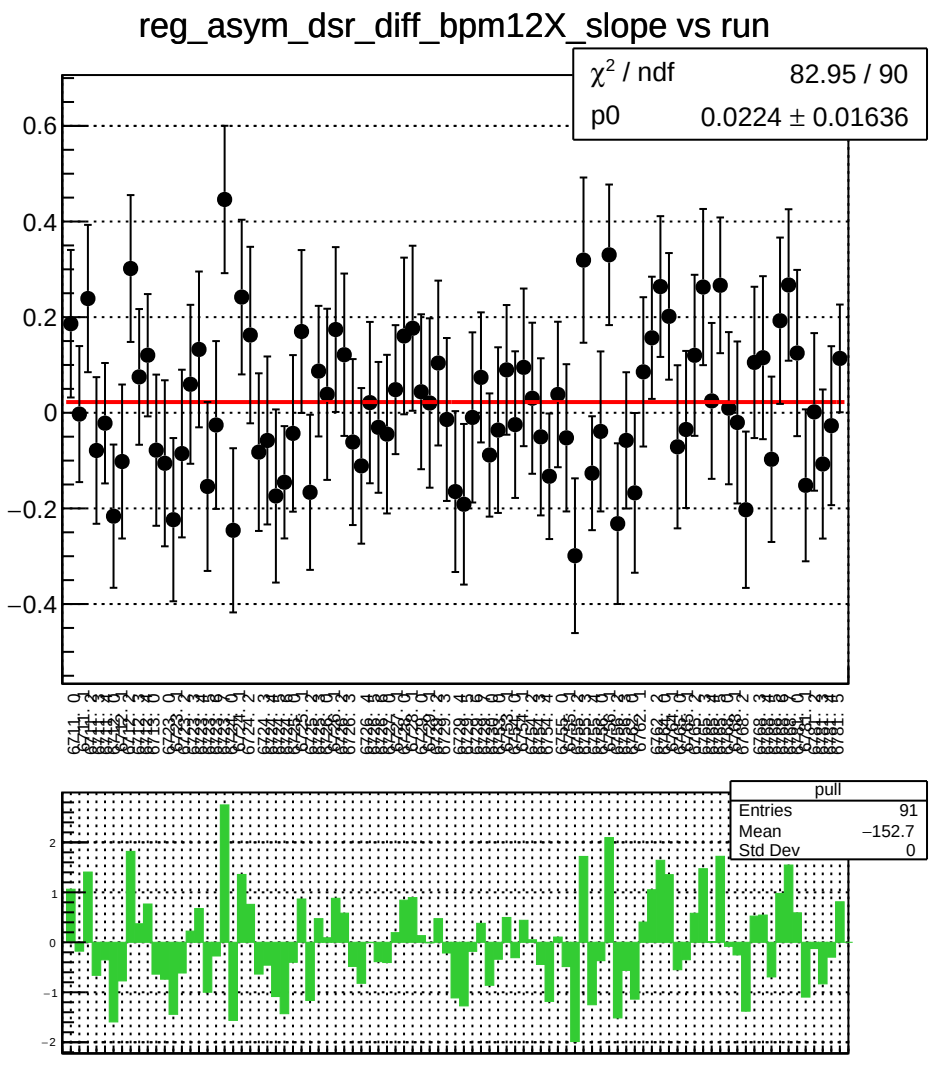

pull1D
Entries 91
Mean −0.03297
Std Dev 0.9063

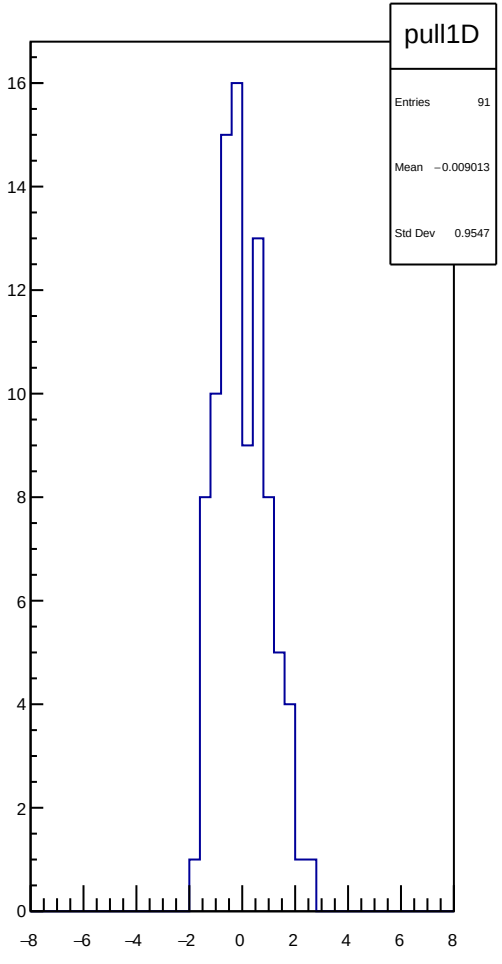

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 89.3 / 90
p0 0.7742 ± 0.3799
pull
Entries 91
Mean 384.5
Std Dev 0

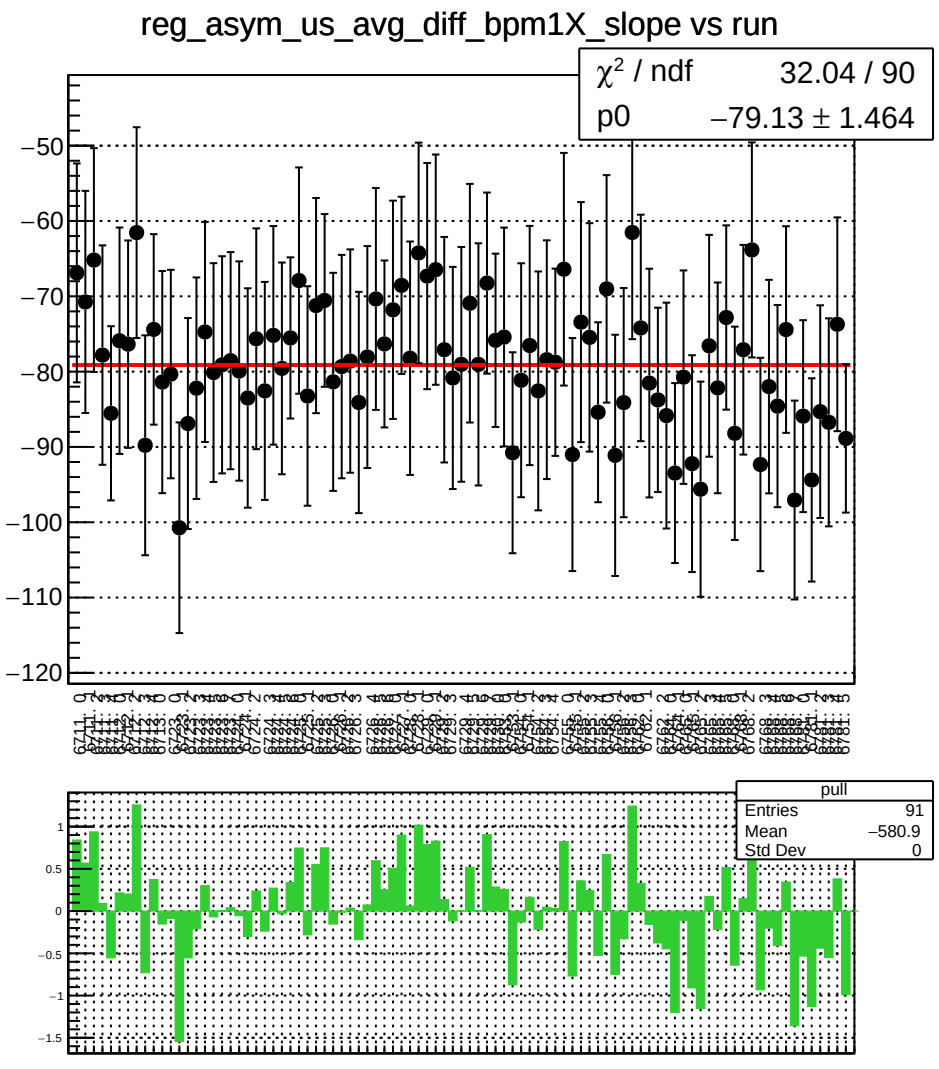

pull1D
Entries 91
Mean 0.001911
Std Dev 0.9906

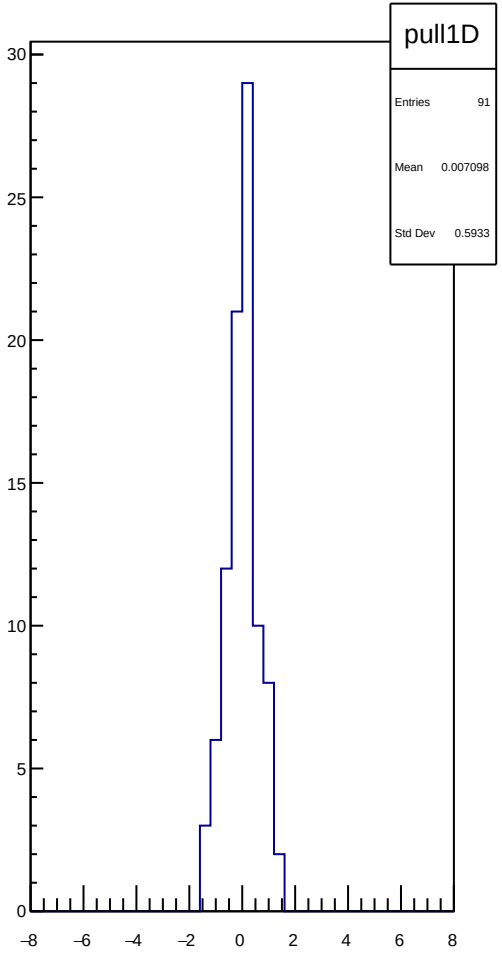

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 77.36 / 90
p0 −0.2064 ± 0.2857
pull
Entries 91
Mean 148.1
Std Dev 0

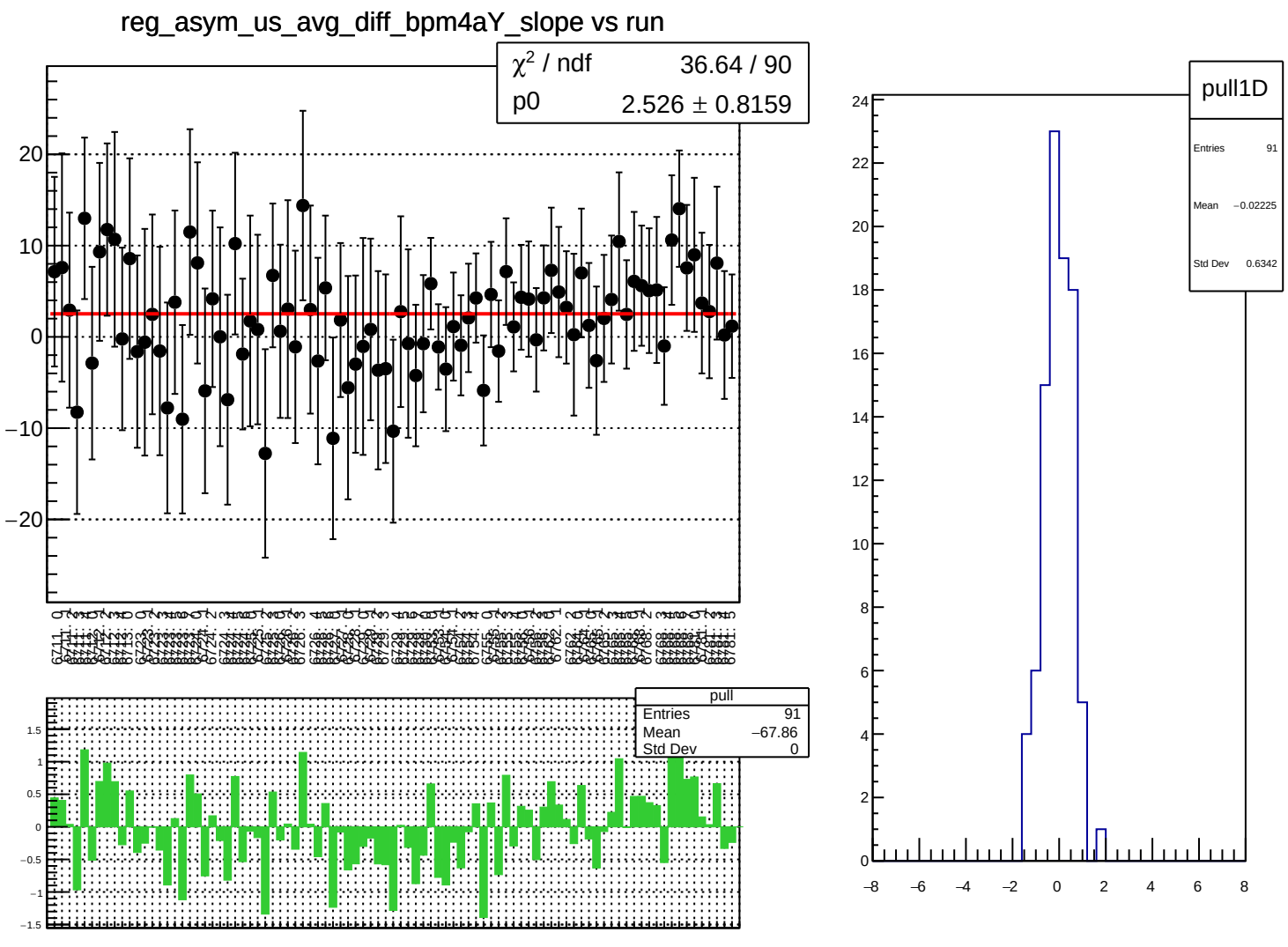

pull1D
Entries 91
Mean 0.01949
Std Dev 0.9218

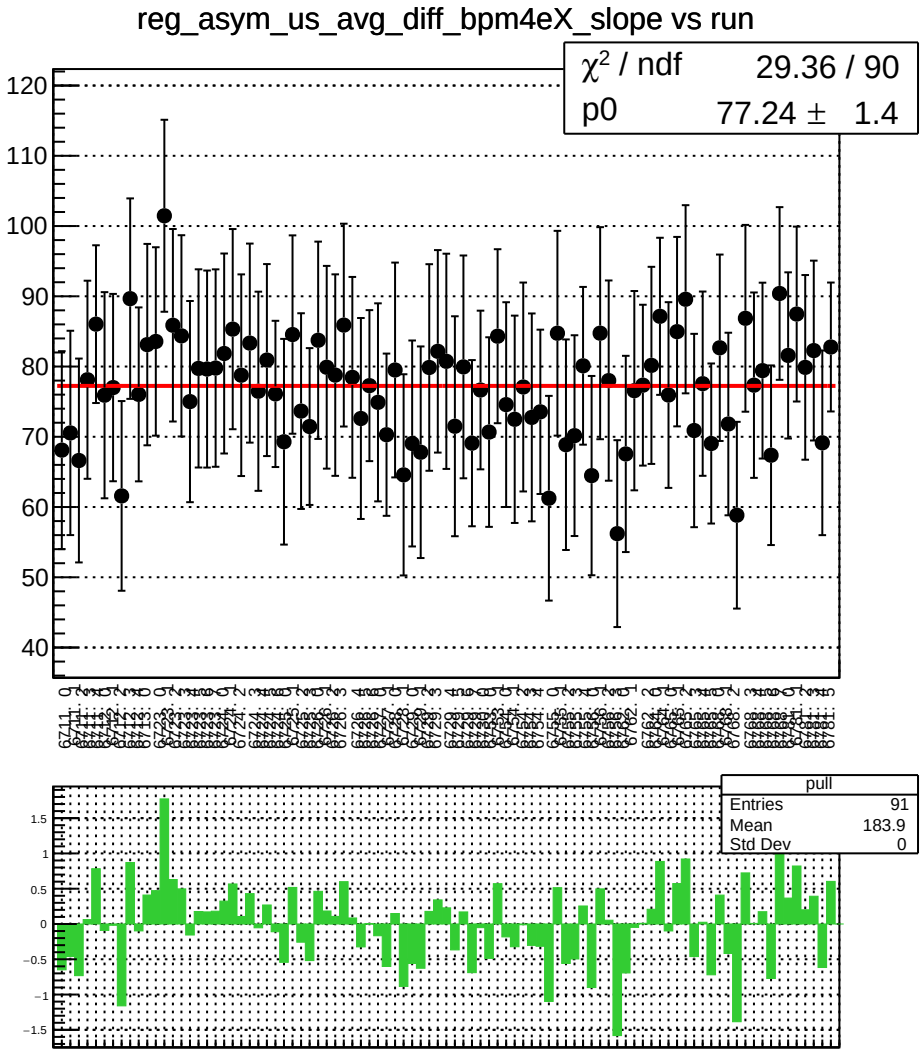

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 82.95 / 90
p0 0.0224 ± 0.01636
pull
Entries 91
Mean −152.7
Std Dev 0

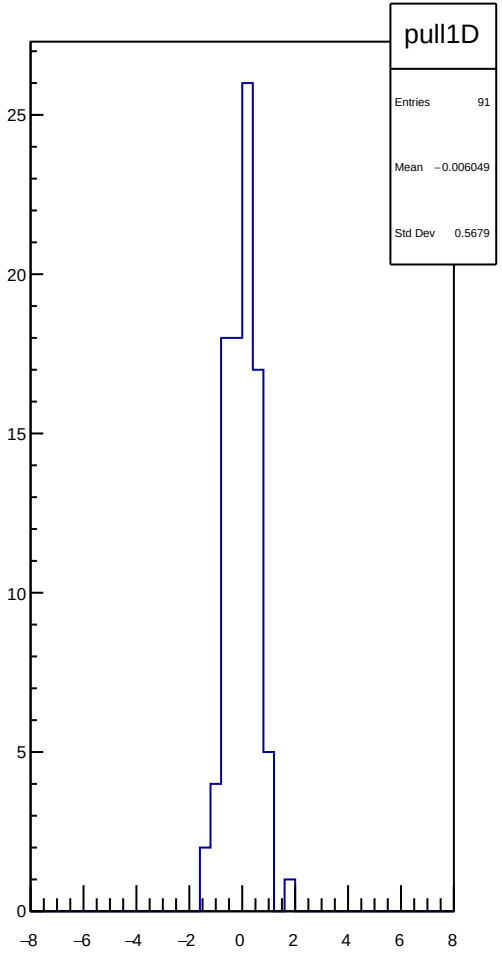

pull1D
Entries 91
Mean −0.009013
Std Dev 0.9547

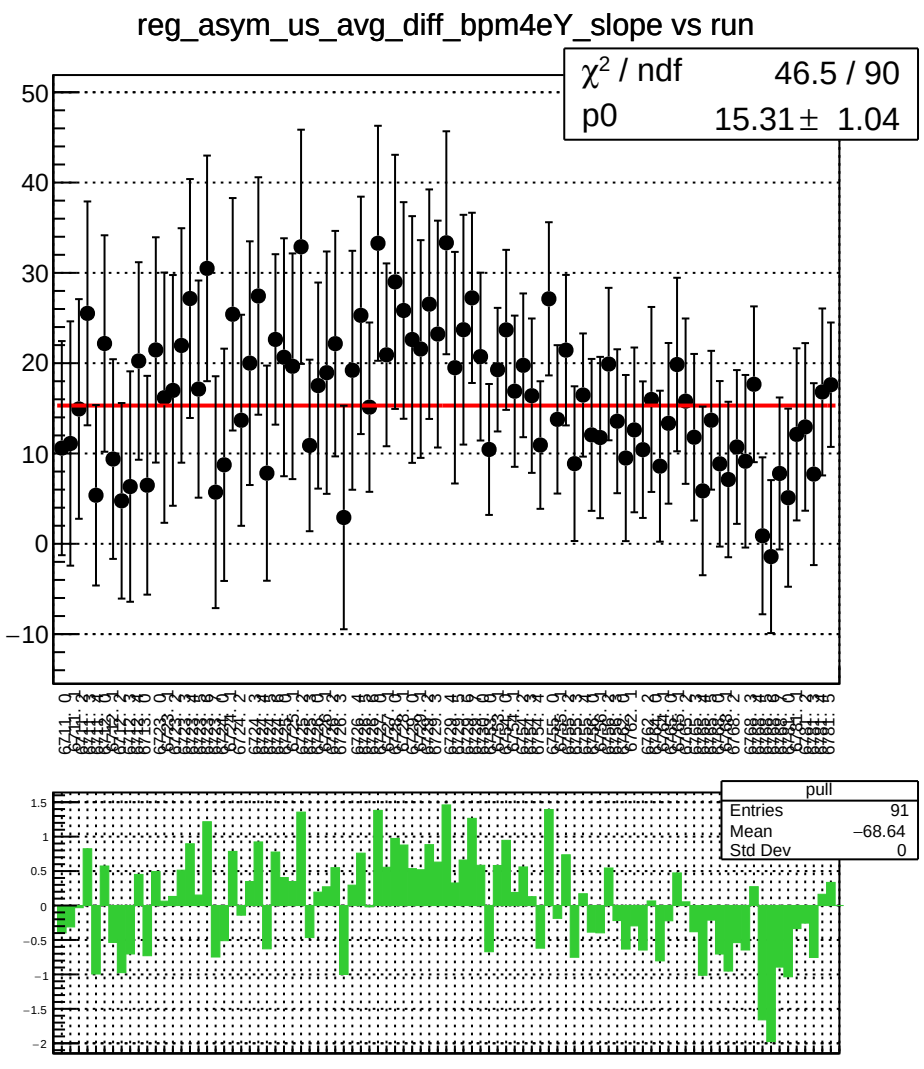

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 32.04 / 90
p0 −79.13 ± 1.464
pull
Entries 91
Mean −580.9
Std Dev 0

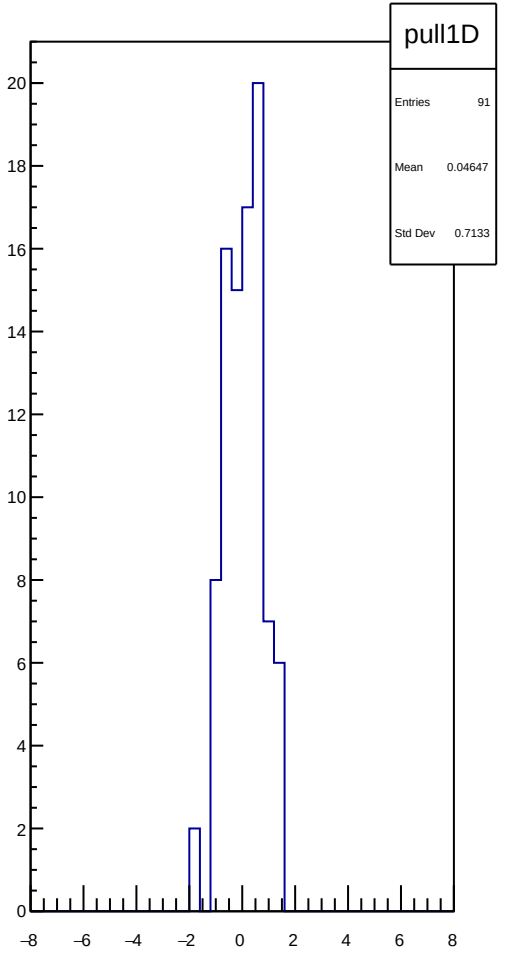

pull1D
Entries 91
Mean 0.007098
Std Dev 0.5933

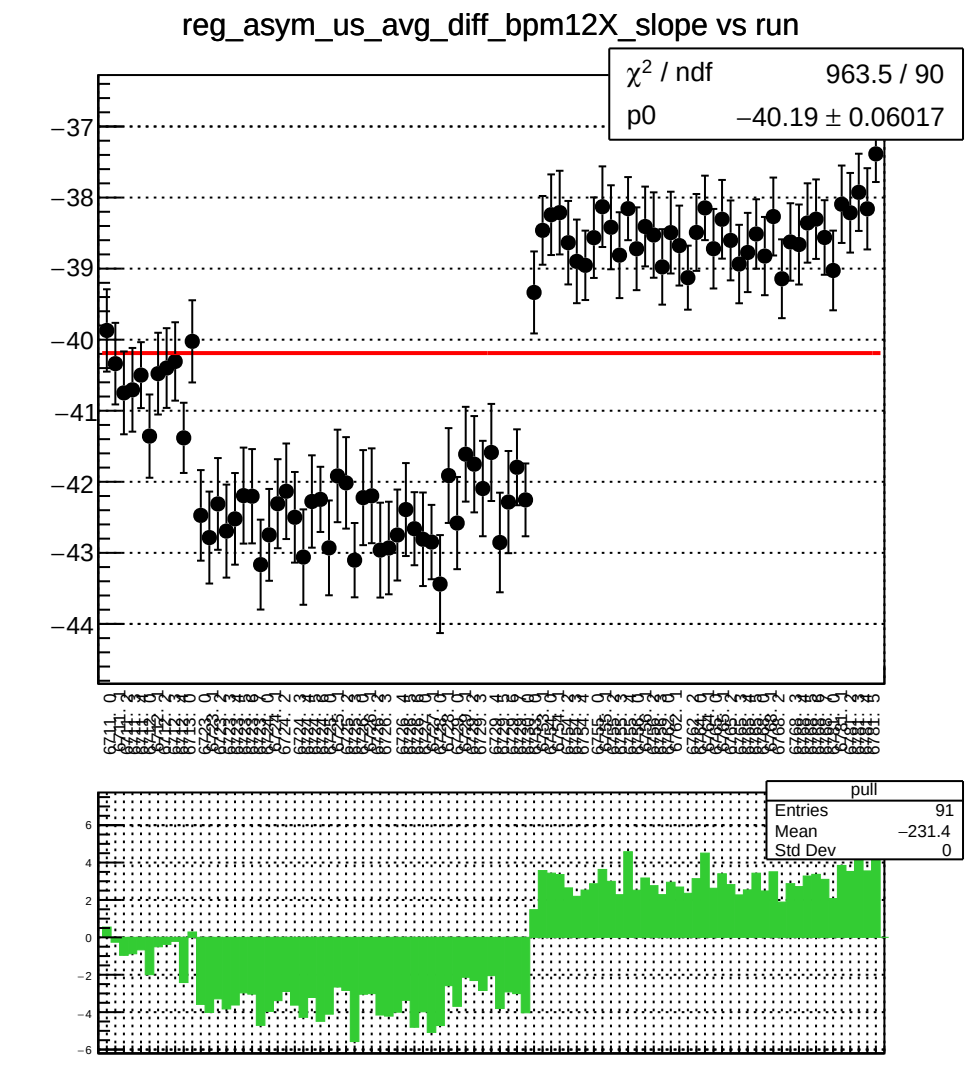

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.64 / 90
p0 2.526 ± 0.8159
pull
Entries 91
Mean −67.86
Std Dev 0
pull1D
Entries 91
Mean −0.02225
Std Dev 0.6342

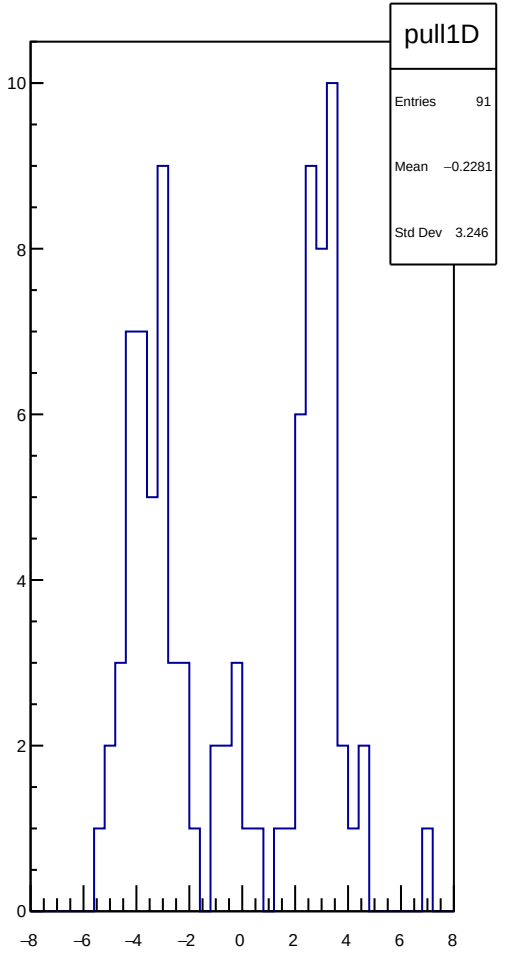

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.36 / 90
p0 77.24 ± 1.4
pull
Entries 91
Mean 183.9
Std Dev 0

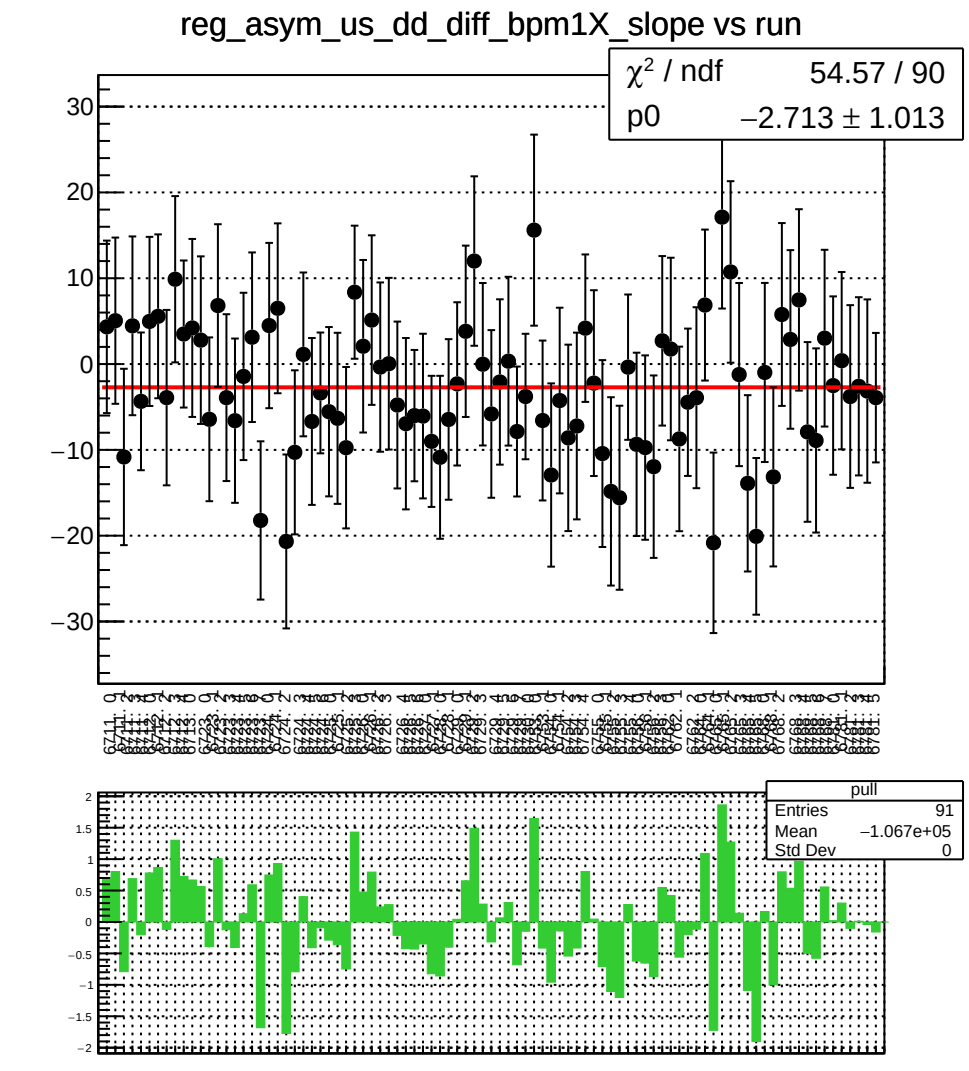

pull1D
Entries 91
Mean −0.006049
Std Dev 0.5679

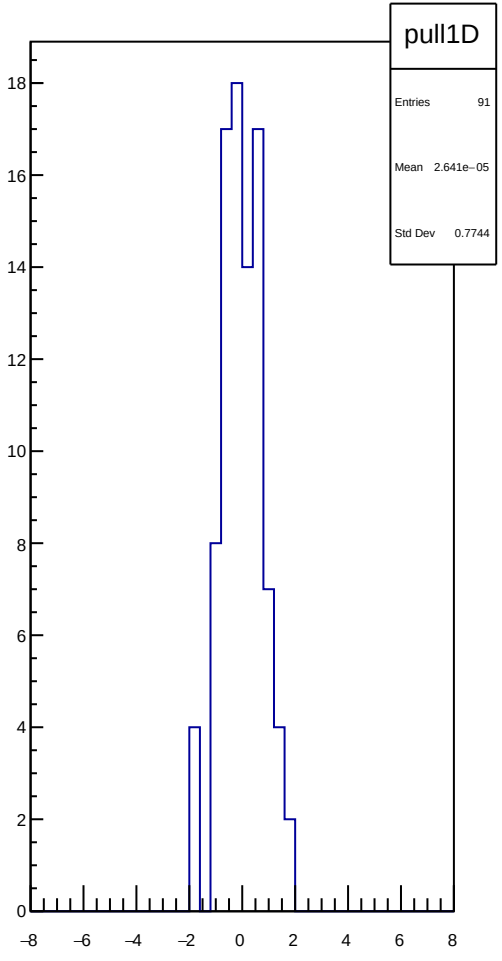

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 46.5 / 90
p0 15.31 ± 1.04
pull
Entries 91
Mean −68.64
Std Dev 0

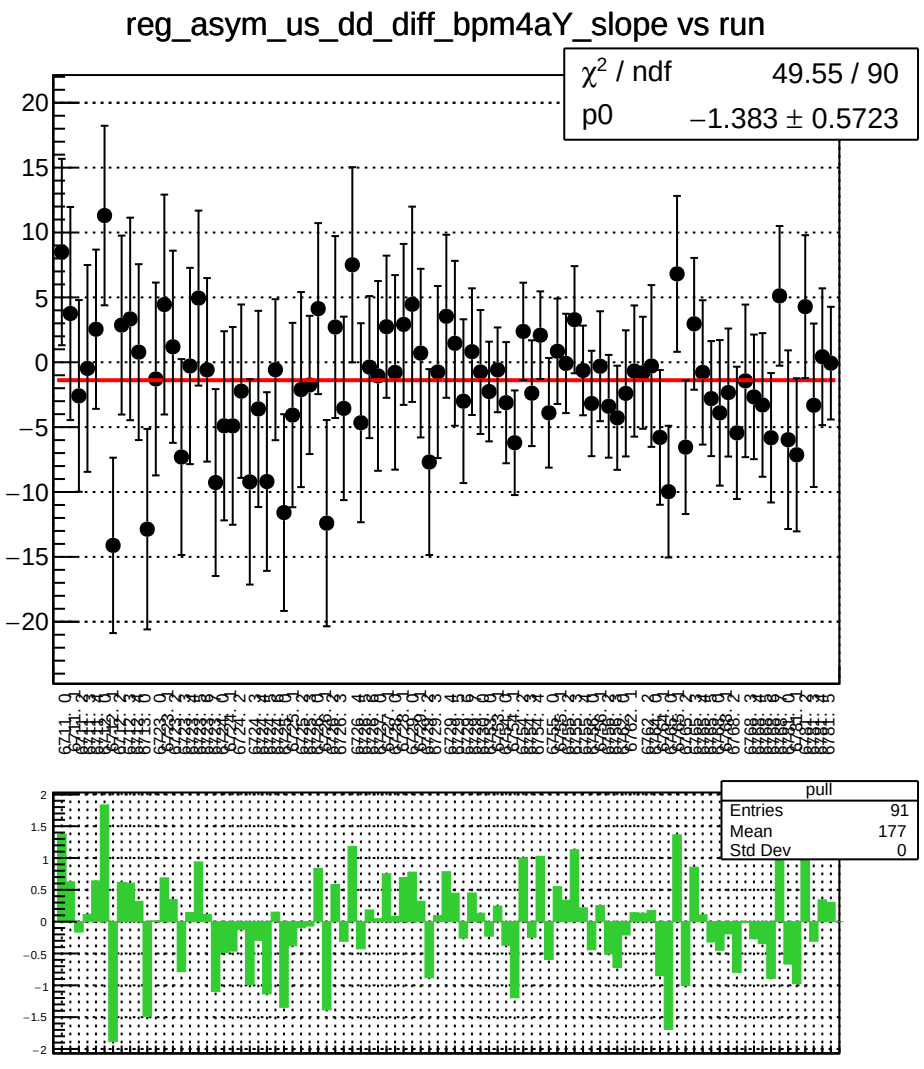

pull1D
Entries 91
Mean 0.04647
Std Dev 0.7133

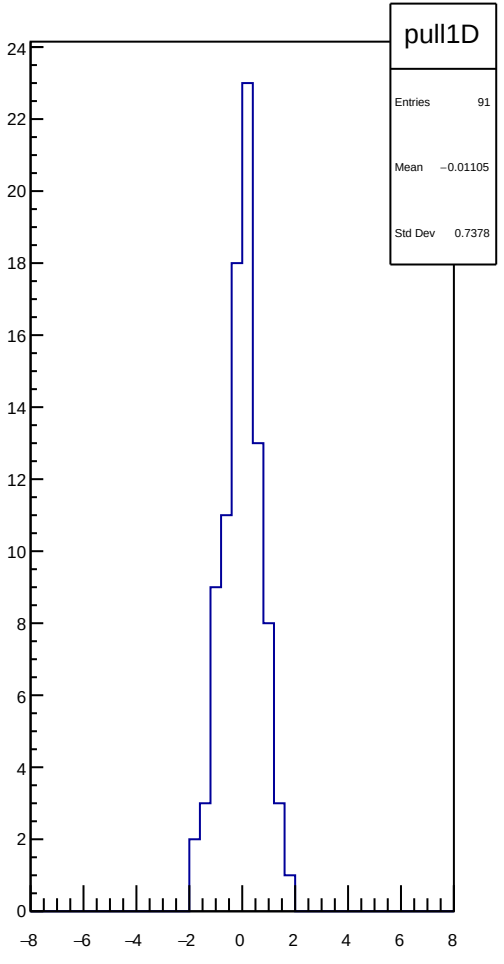

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 963.5 / 90
p0 −40.19 ± 0.06017
pull
Entries 91
Mean −231.4
Std Dev 0

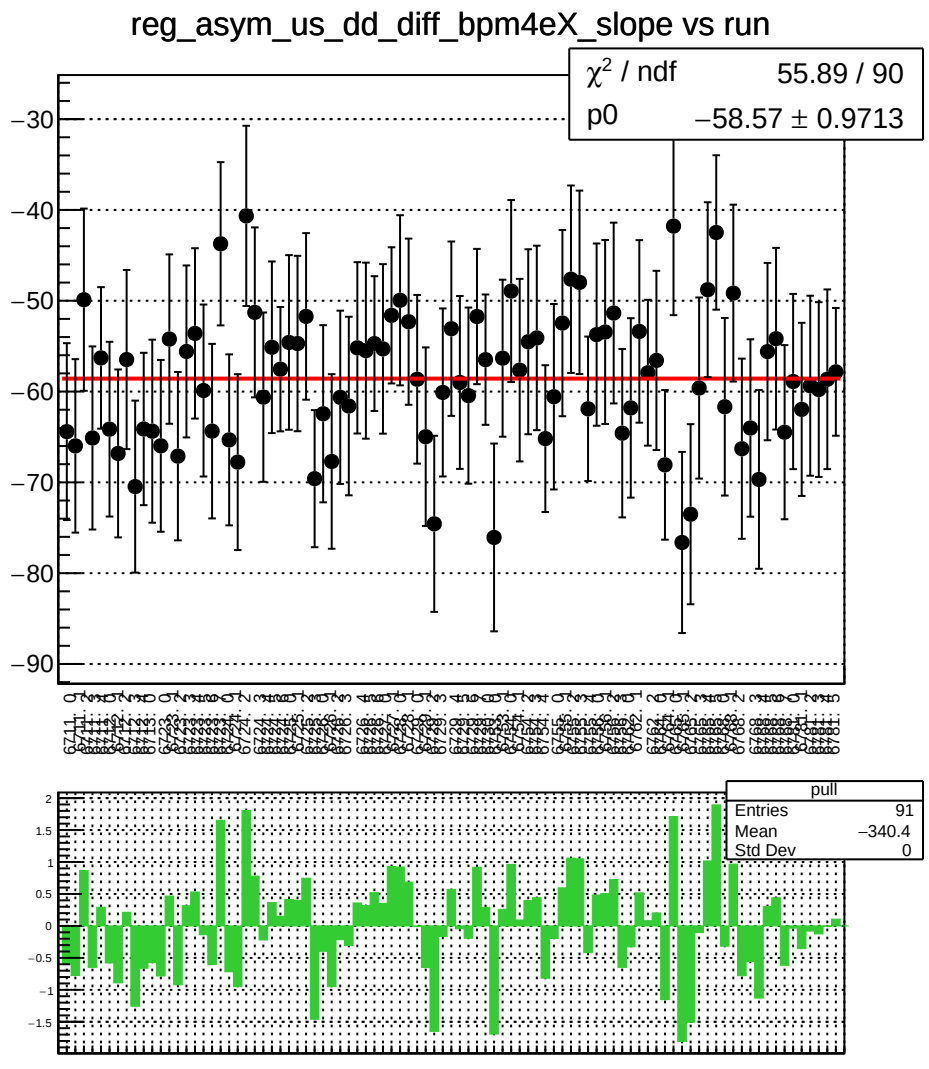

pull1D
Entries 91
Mean −0.2281
Std Dev 3.246

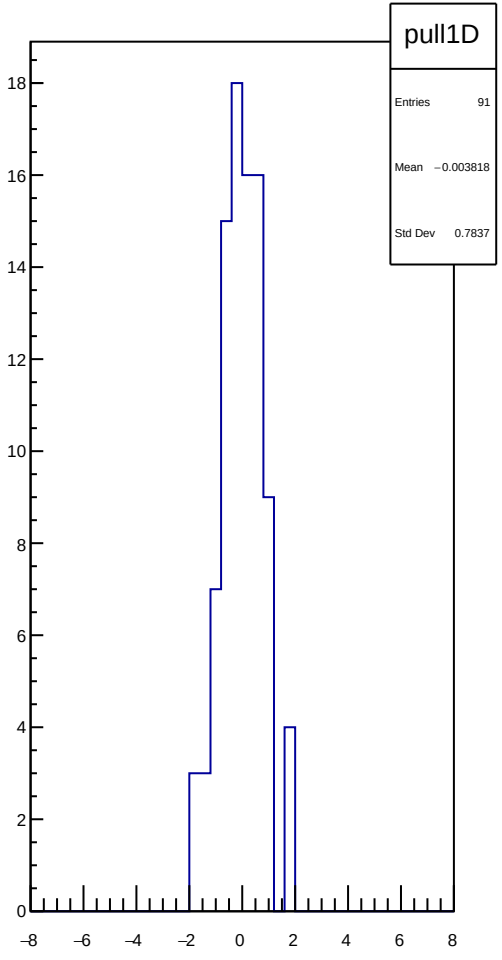

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 54.57 / 90
p0 −2.713 ± 1.013
pull
Entries 91
Mean −1.067e+05
Std Dev 0

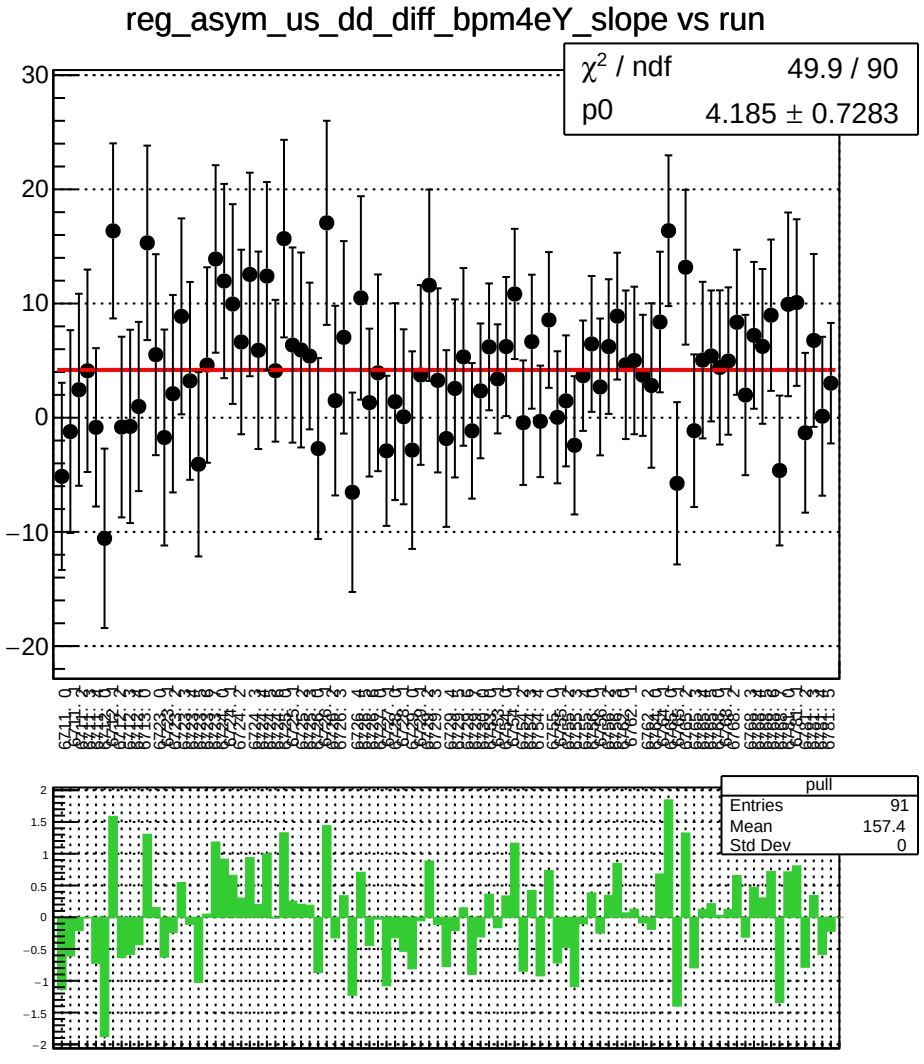

pull1D
Entries 91
Mean 2.641e−05
Std Dev 0.7744

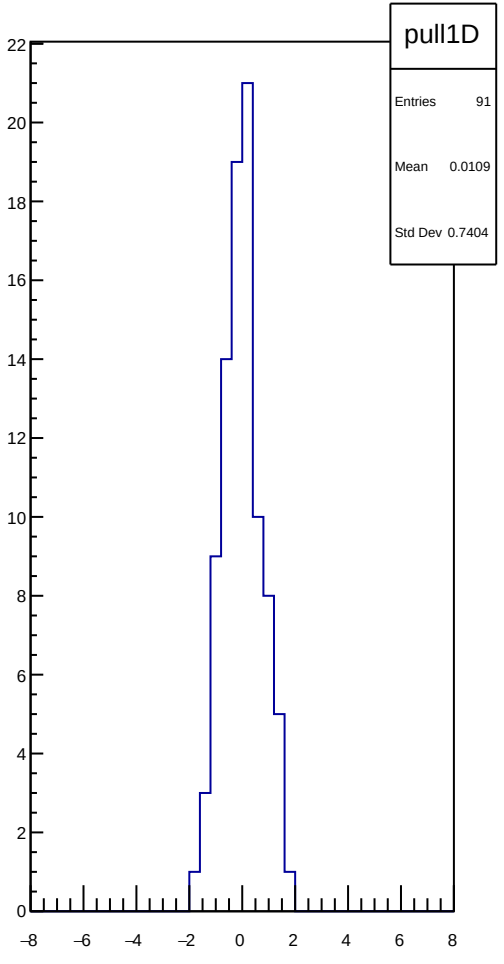

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.55 / 90
p0 −1.383 ± 0.5723
pull
Entries 91
Mean 177
Std Dev 0

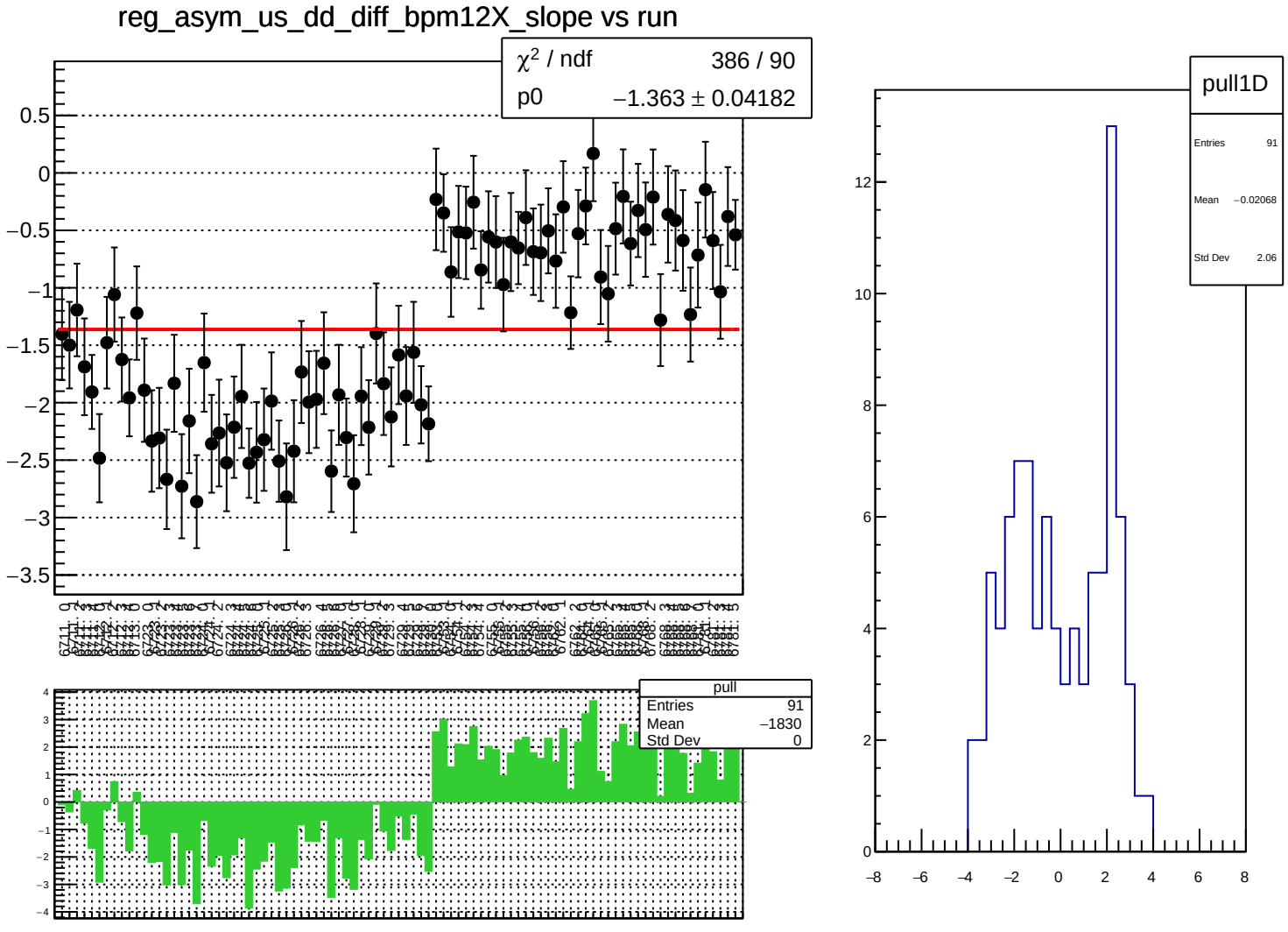

pull1D
Entries 91
Mean −0.01105
Std Dev 0.7378

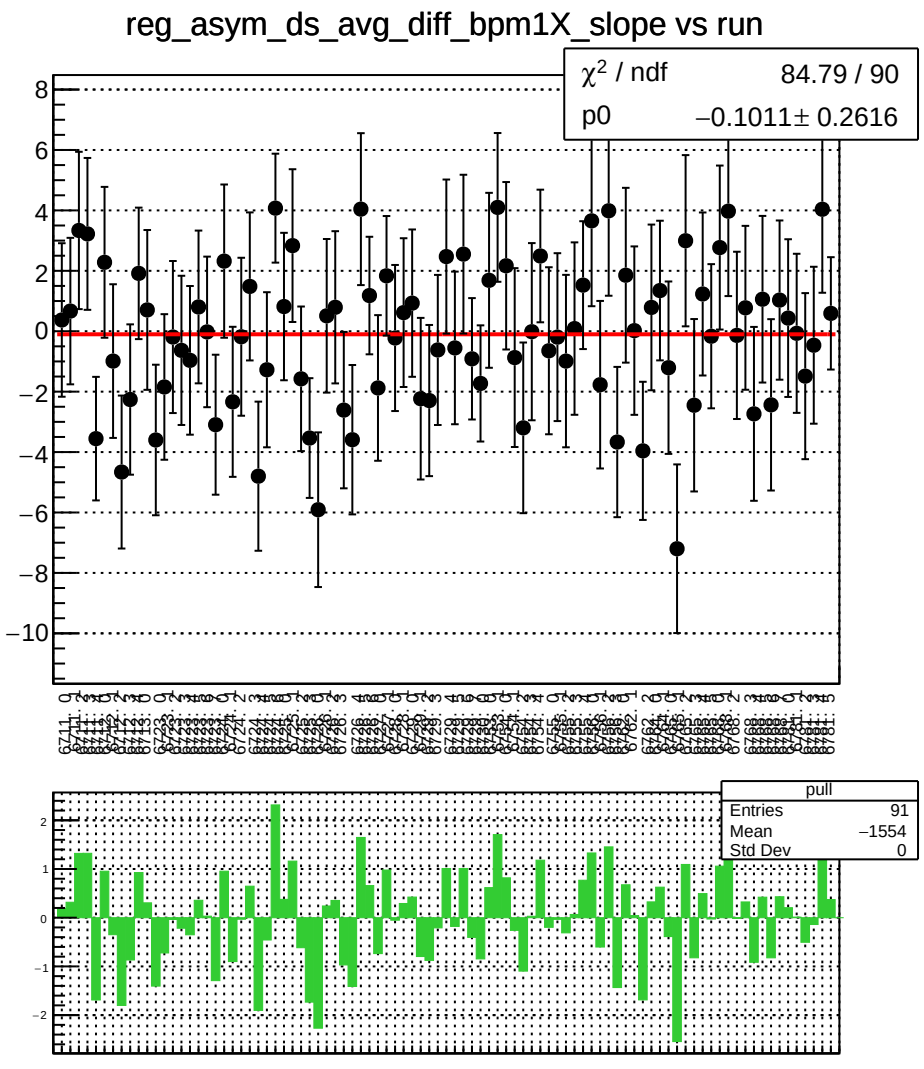

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 55.89 / 90
p0 −58.57 ± 0.9713
pull
Entries 91
Mean −340.4
Std Dev 0

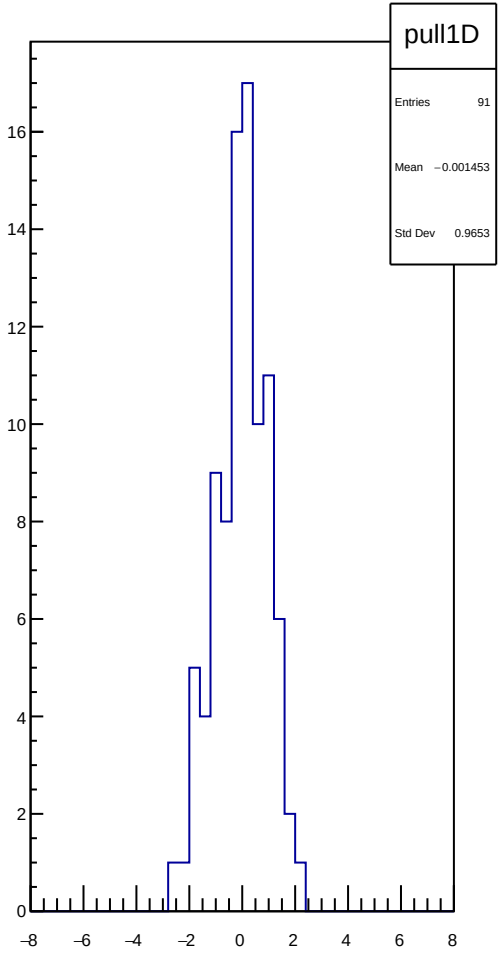

pull1D
Entries 91
Mean −0.003818
Std Dev 0.7837

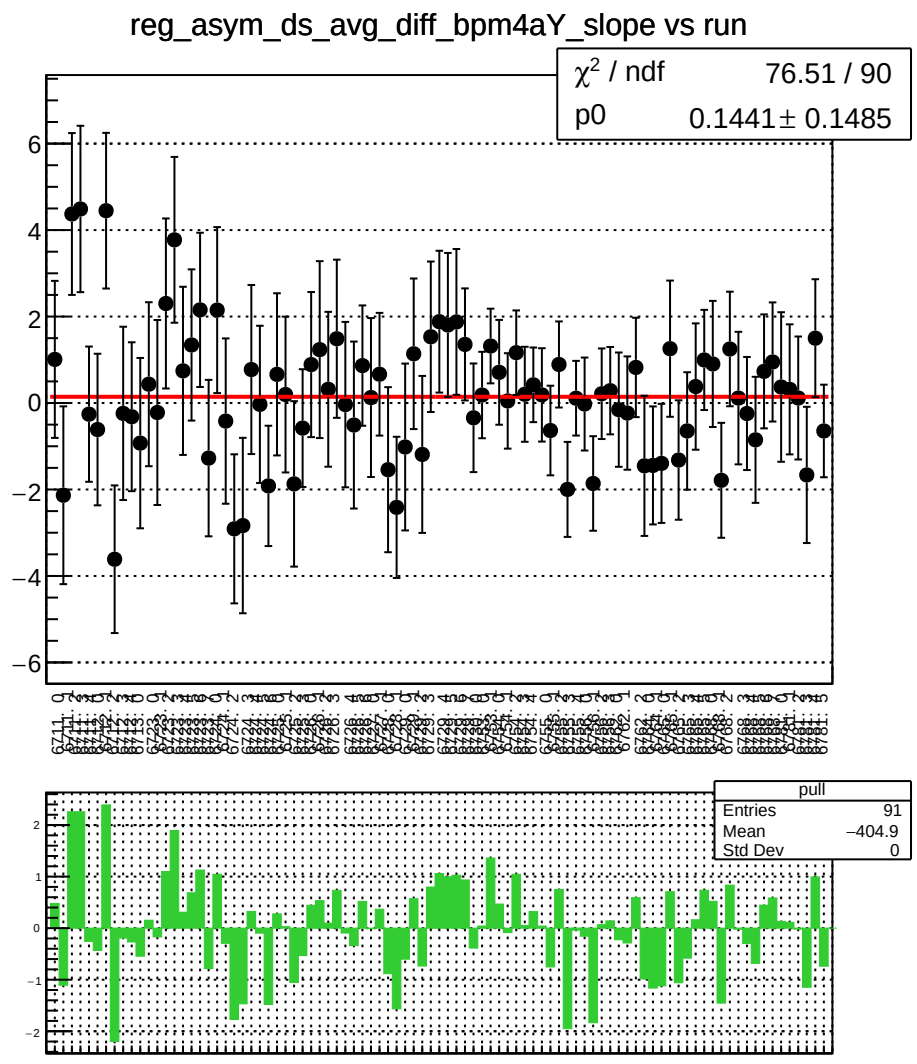

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 49.9 / 90
p0 4.185 ± 0.7283
pull
Entries 91
Mean 157.4
Std Dev 0

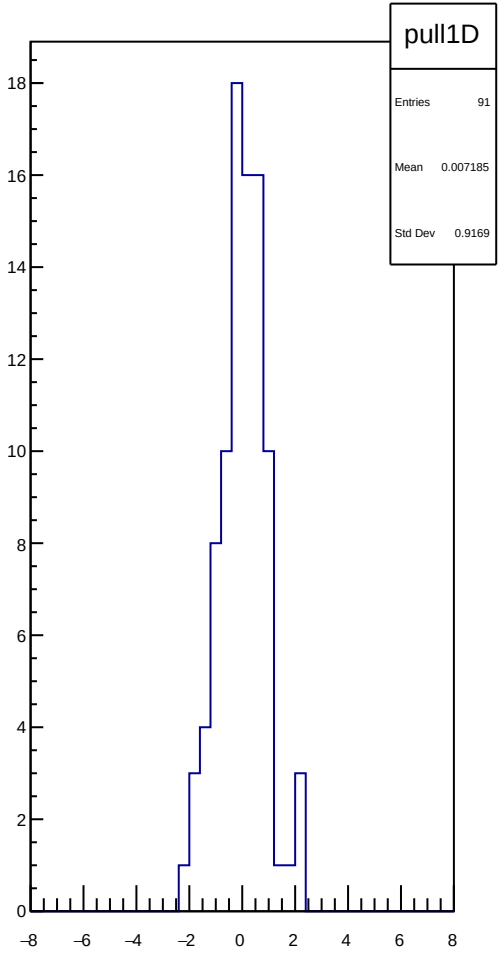

pull1D
Entries 91
Mean 0.0109
Std Dev 0.7404

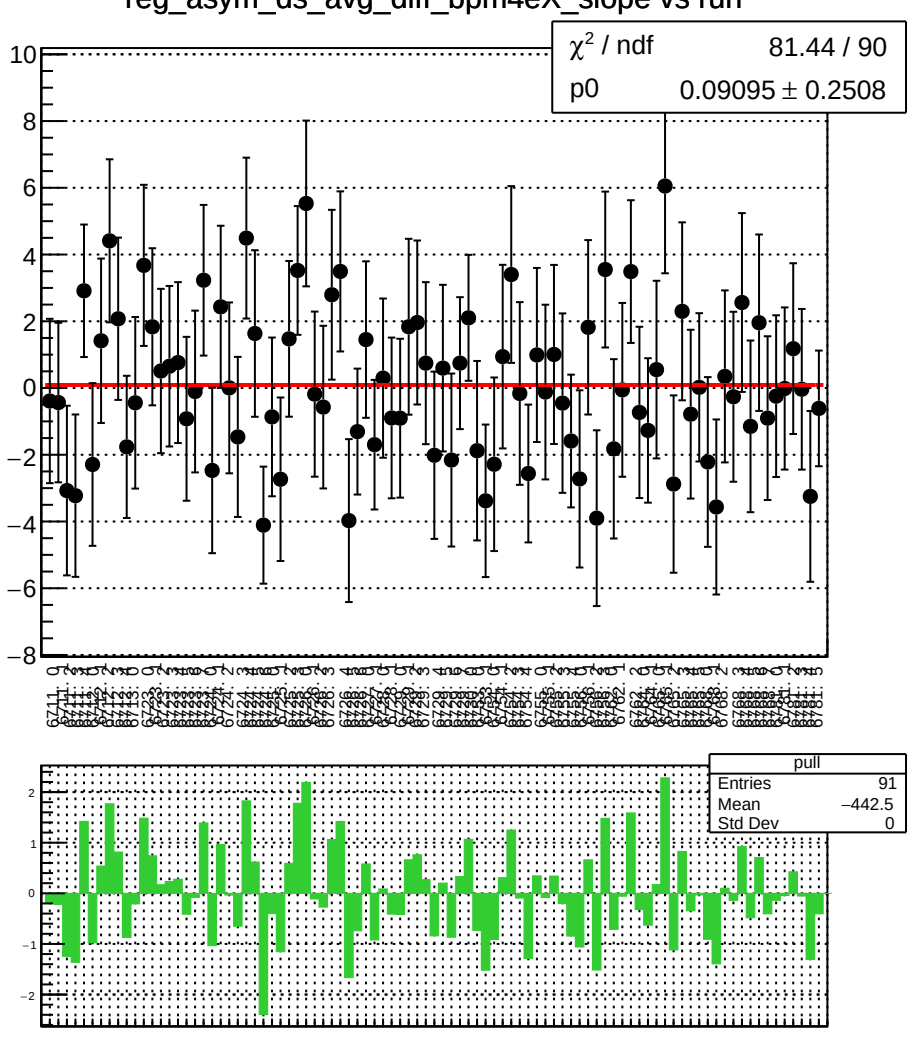

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 386 / 90
p0 −1.363 ± 0.04182
pull
Entries 91
Mean −1830
Std Dev 0
pull1D
Entries 91
Mean −0.02068
Std Dev 2.06

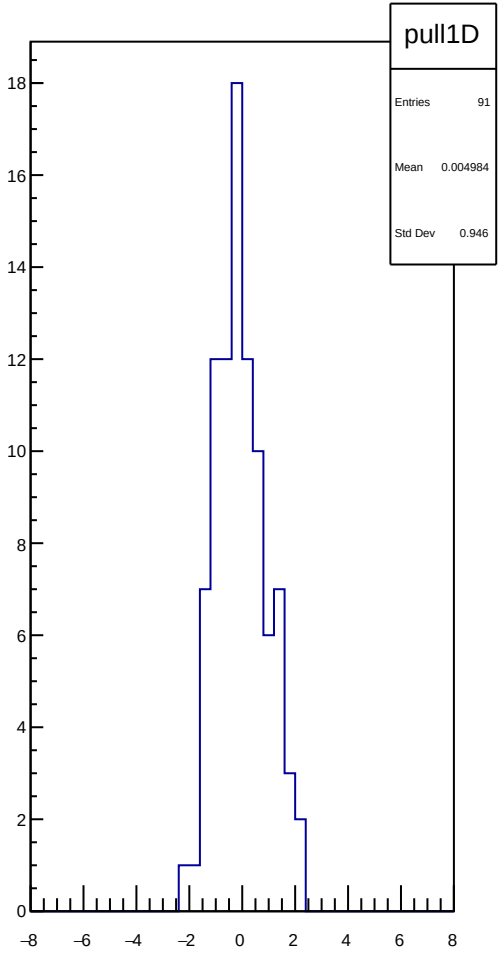

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 84.79 / 90
p0 −0.1011± 0.2616
pull
Entries 91
Mean −1554
Std Dev 0

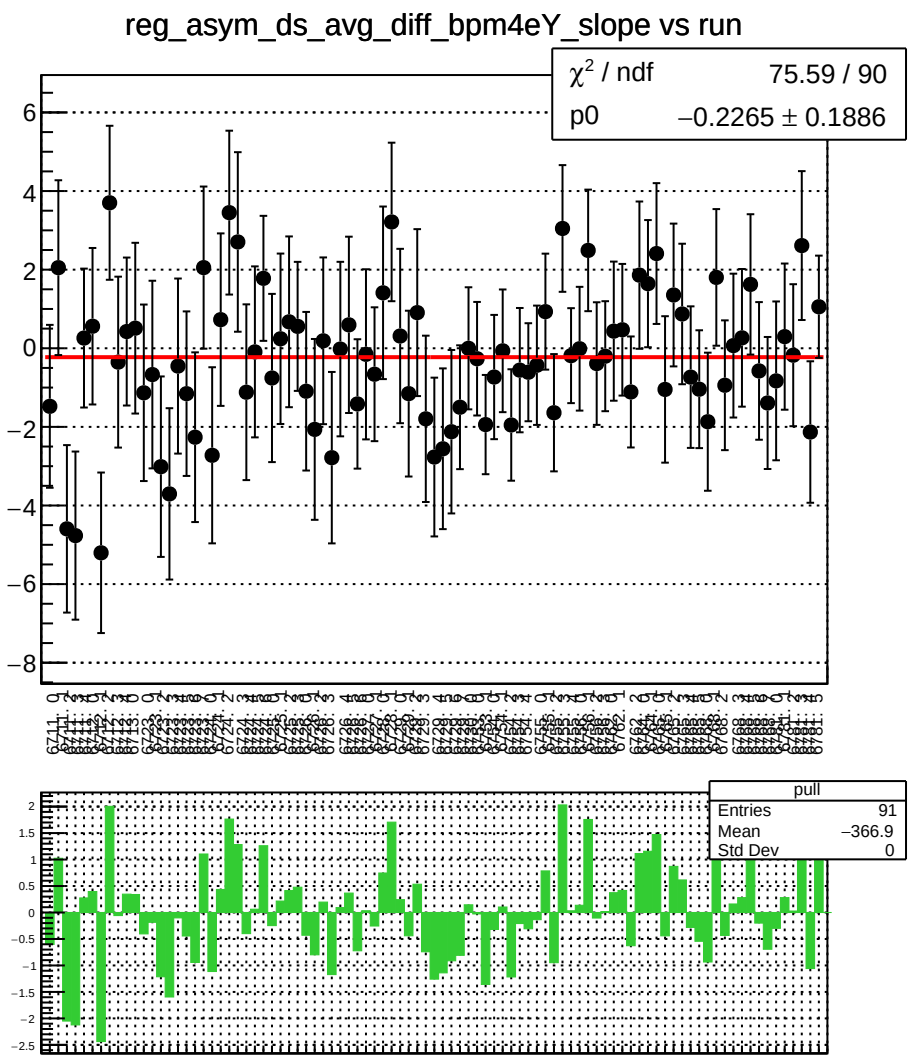

pull1D
Entries 91
Mean −0.001453
Std Dev 0.9653

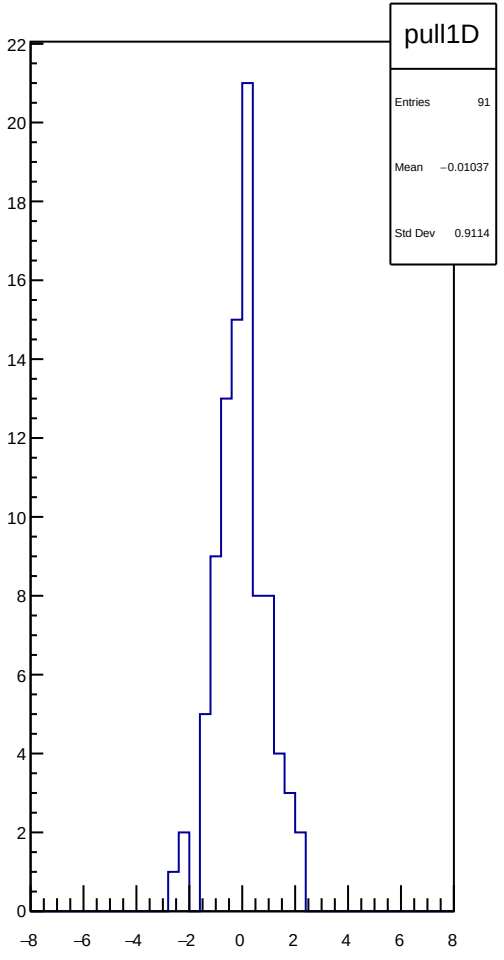

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 76.51 / 90
p0 0.1441 ± 0.1485
pull
Entries 91
Mean −404.9
Std Dev 0

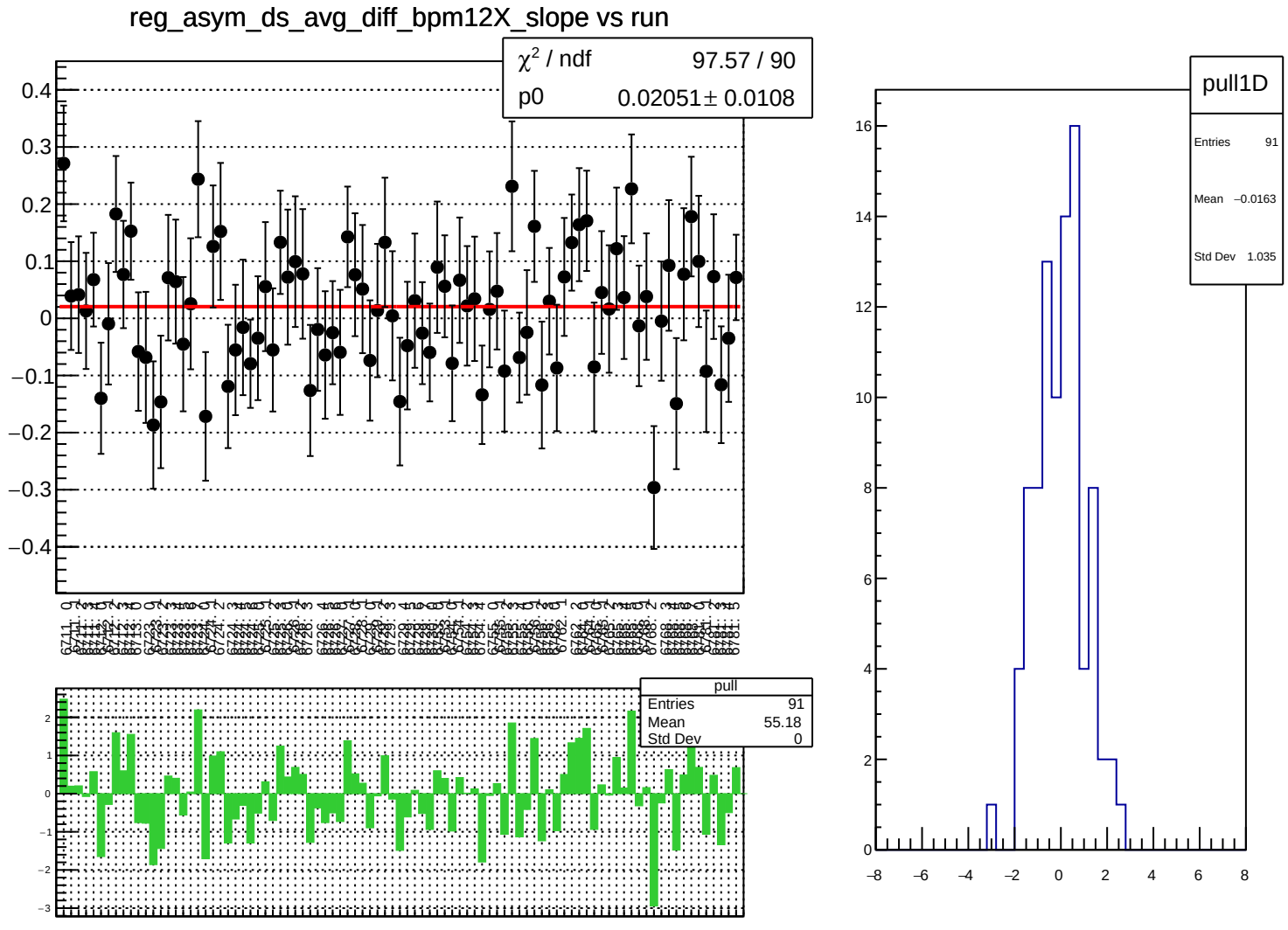

pull1D
Entries 91
Mean 0.007185
Std Dev 0.9169

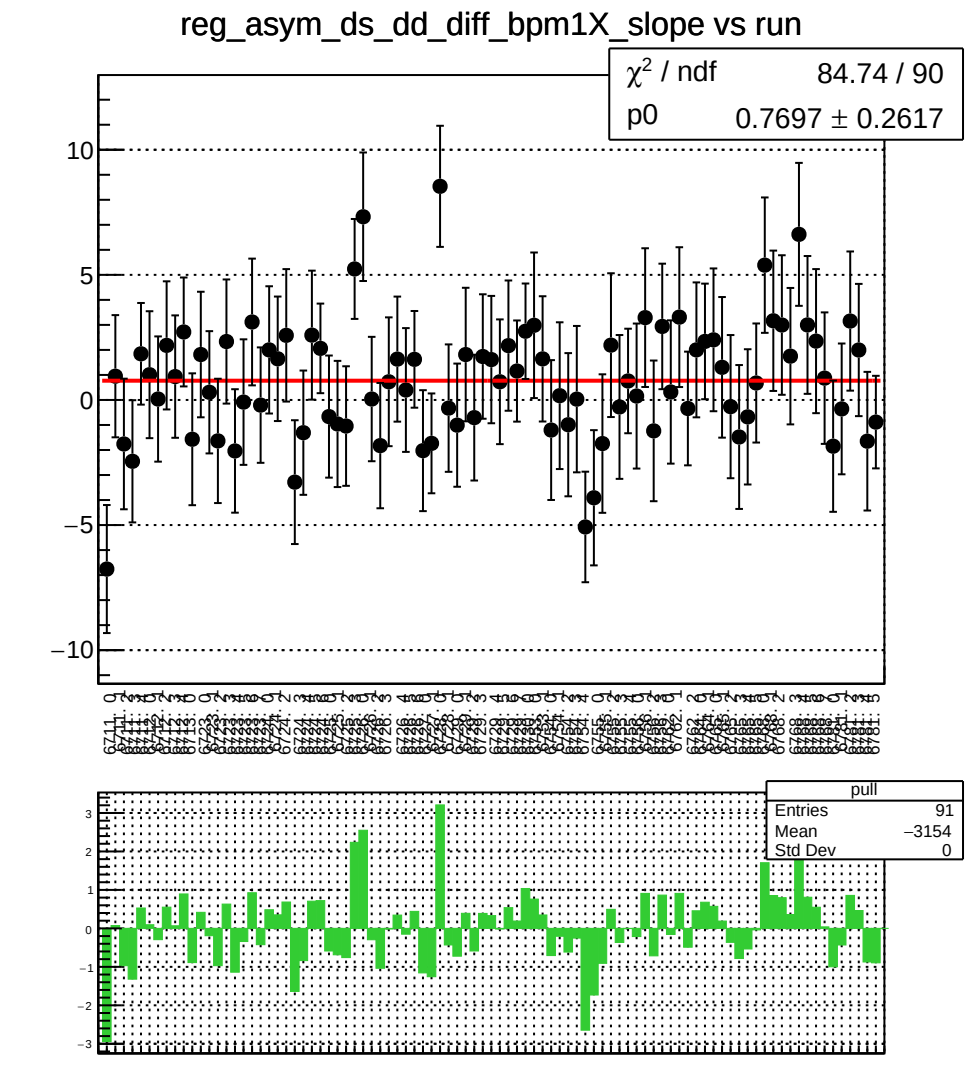

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 81.44 / 90
p0 0.09095 ± 0.2508
pull
Entries 91
Mean −442.5
Std Dev 0

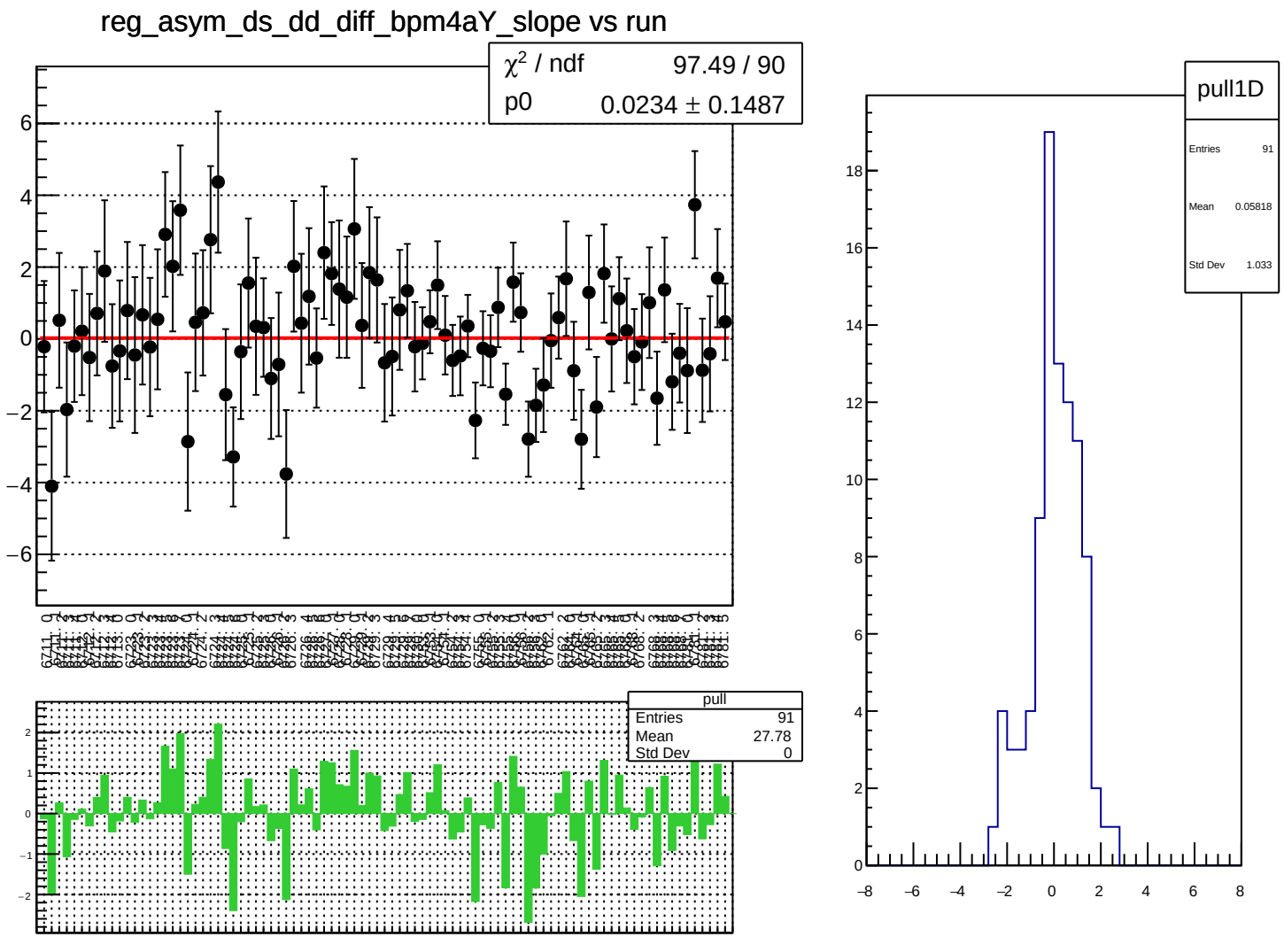

pull1D
Entries 91
Mean 0.004984
Std Dev 0.946

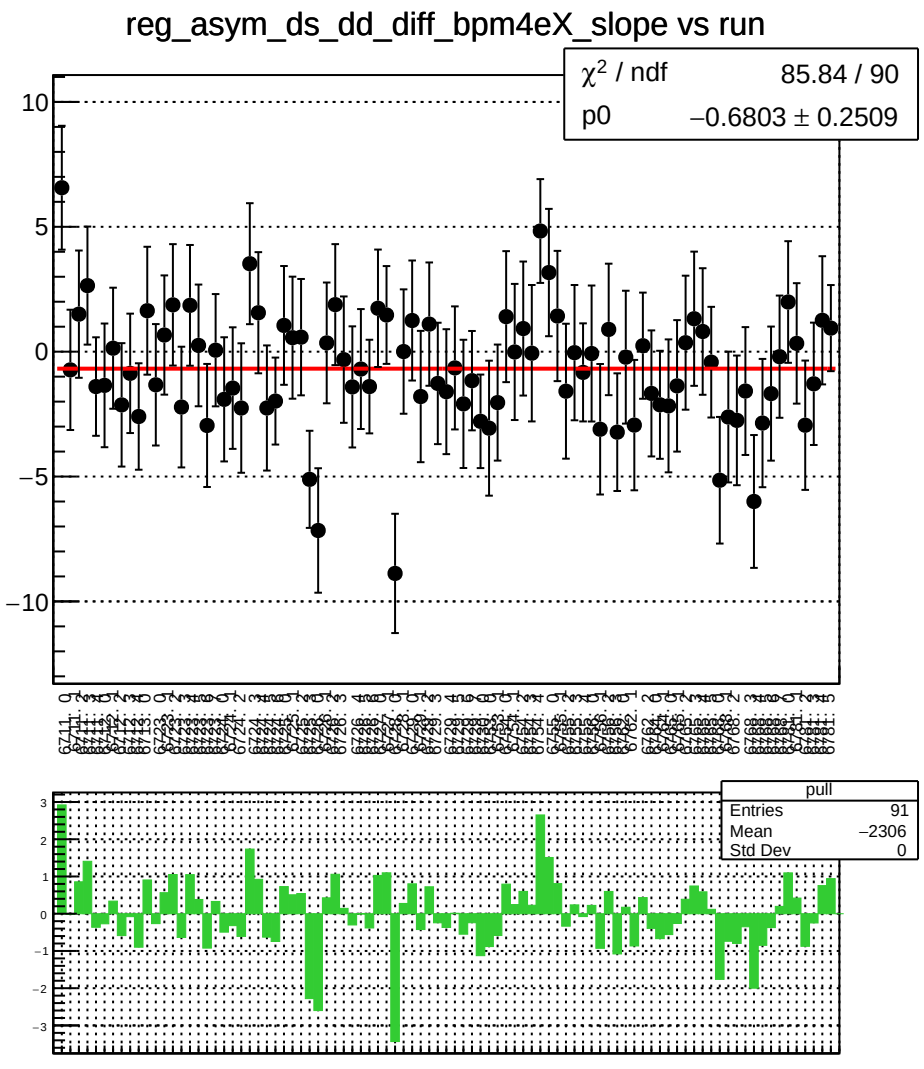

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 75.59 / 90
p0 −0.2265 ± 0.1886
pull
Entries 91
Mean −366.9
Std Dev 0

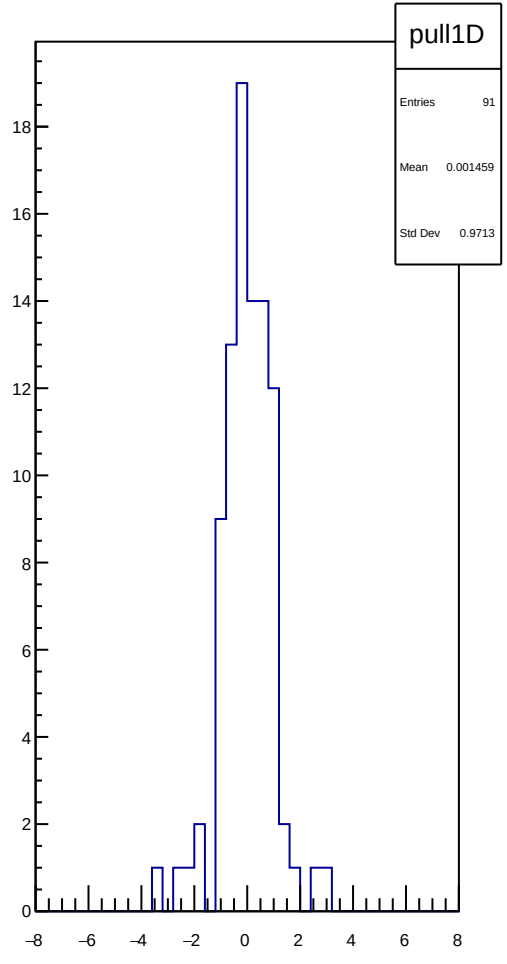

pull1D
Entries 91
Mean −0.01037
Std Dev 0.9114

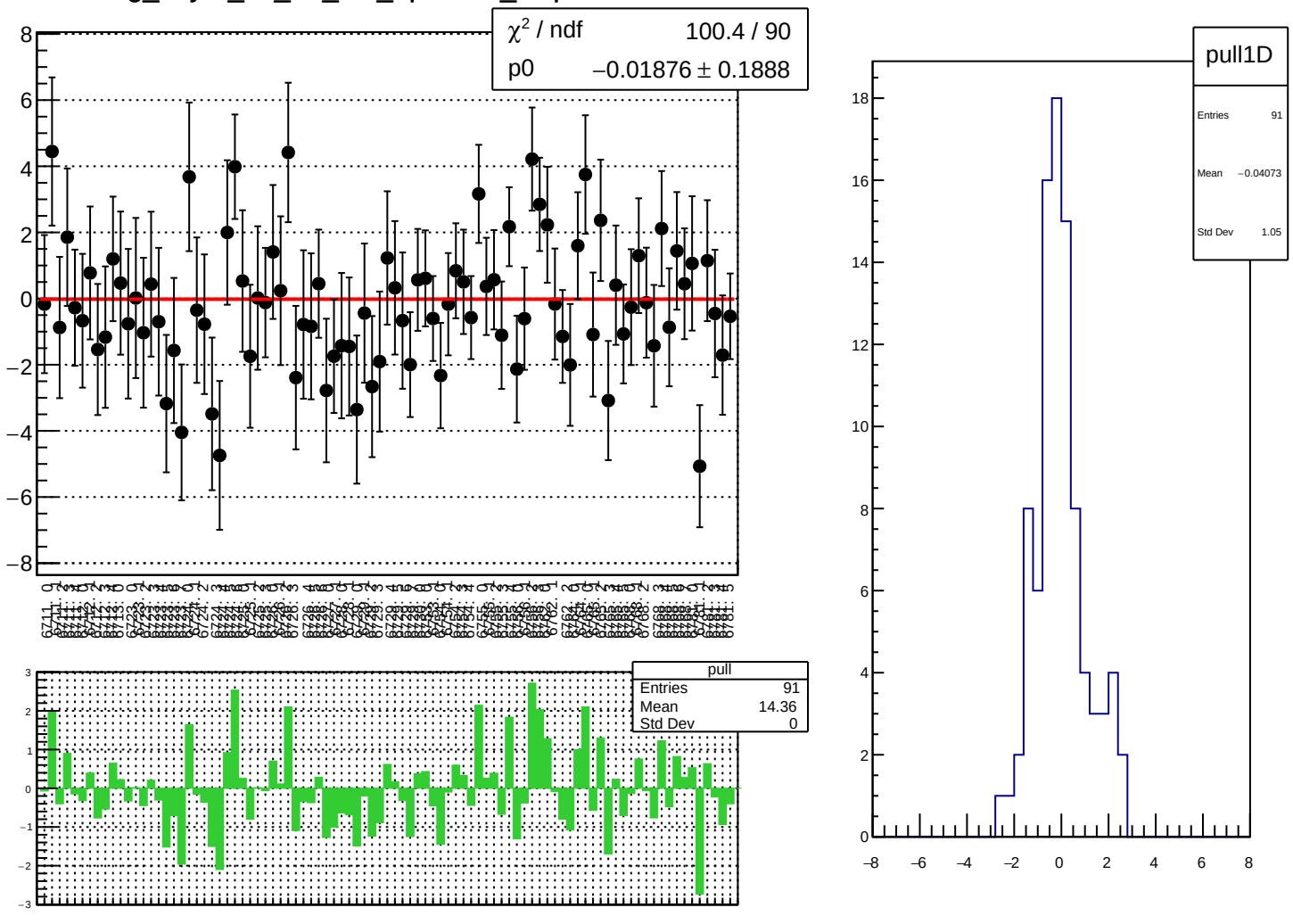

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 97.57 / 90
p0 0.02051 ± 0.0108
pull
Entries 91
Mean 55.18
Std Dev 0
pull1D
Entries 91
Mean −0.0163
Std Dev 1.035

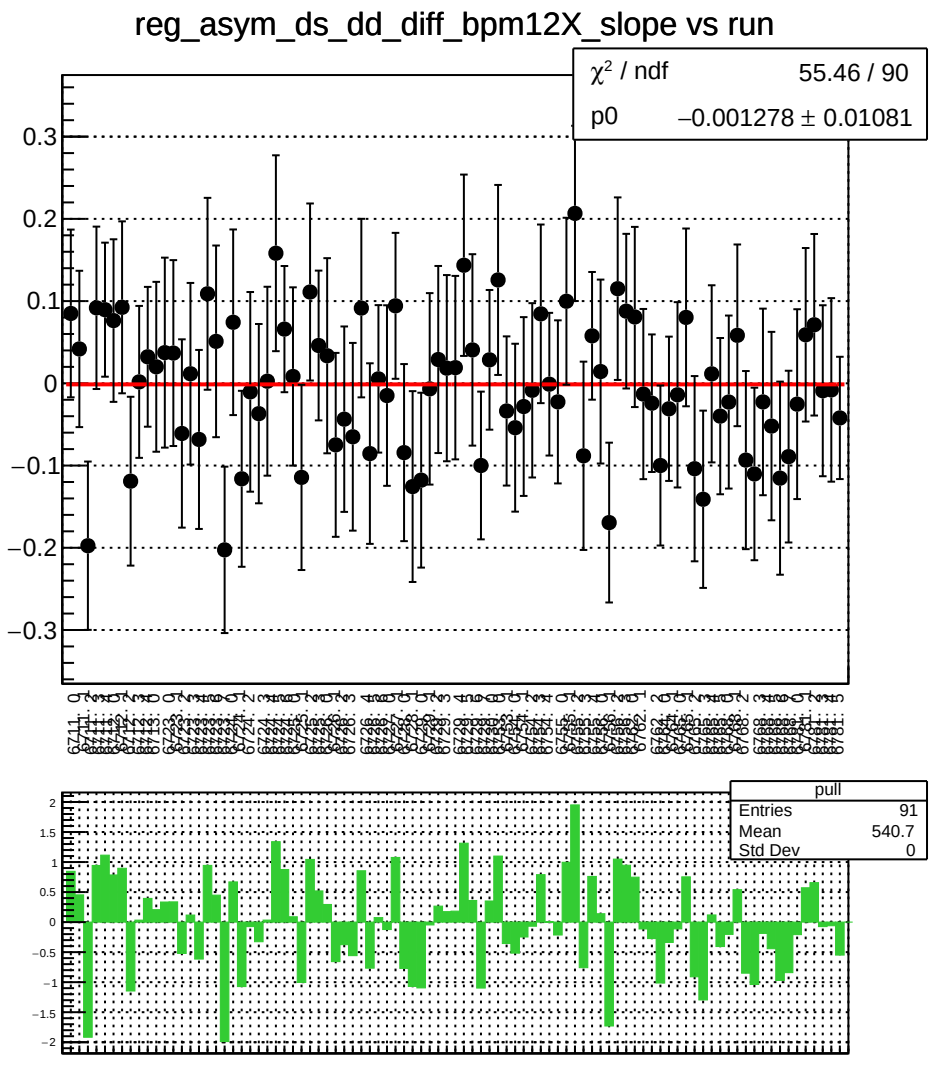

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 84.74 / 90
p0 0.7697 ± 0.2617
pull
Entries 91
Mean −3154
Std Dev 0
pull1D
Entries 91
Mean −0.001071
Std Dev 0.965

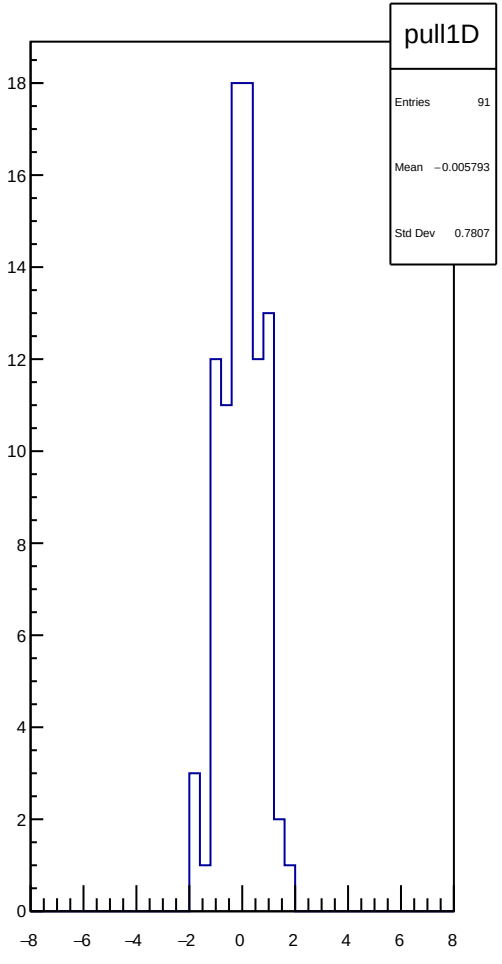

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 97.49 / 90
p0 0.0234 ± 0.1487
pull
Entries 91
Mean 27.78
Std Dev 0
pull1D
Entries 91
Mean 0.05818
Std Dev 1.033

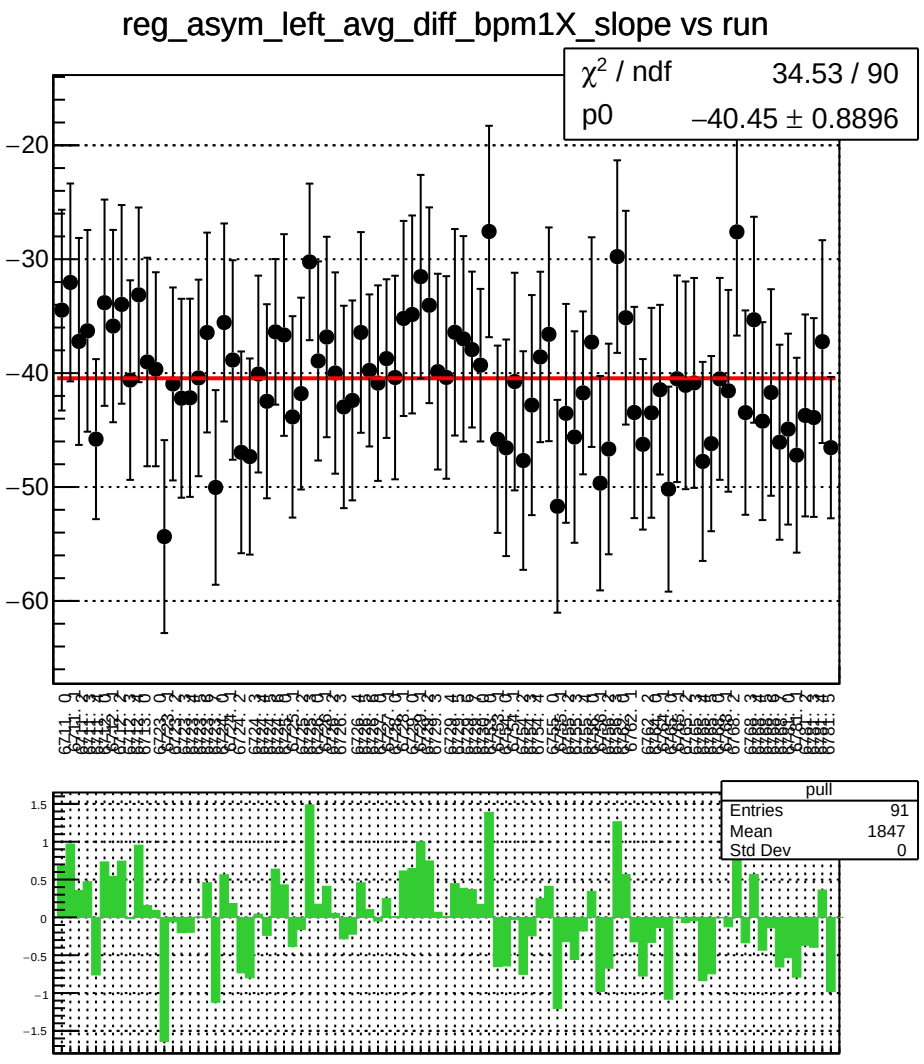

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 85.84 / 90
p0 −0.6803 ± 0.2509
pull
Entries 91
Mean −2306
Std Dev 0

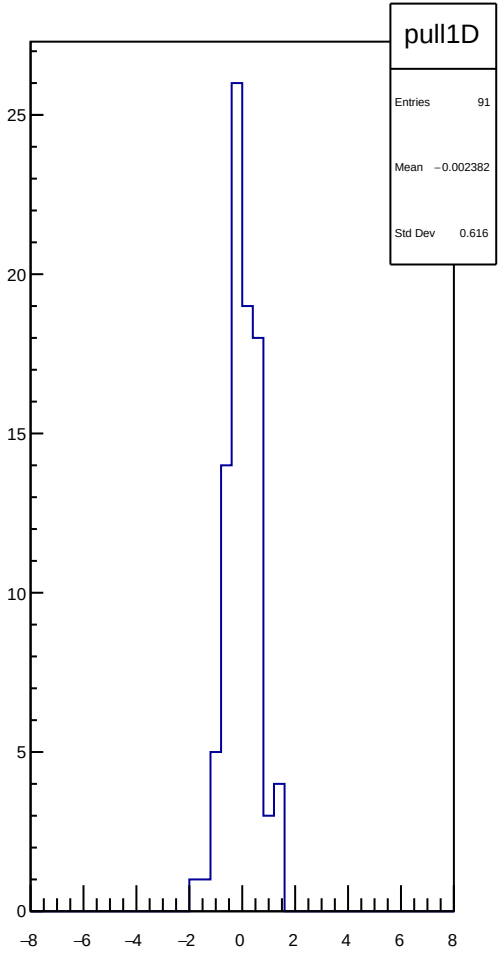

pull1D
Entries 91
Mean 0.001459
Std Dev 0.9713

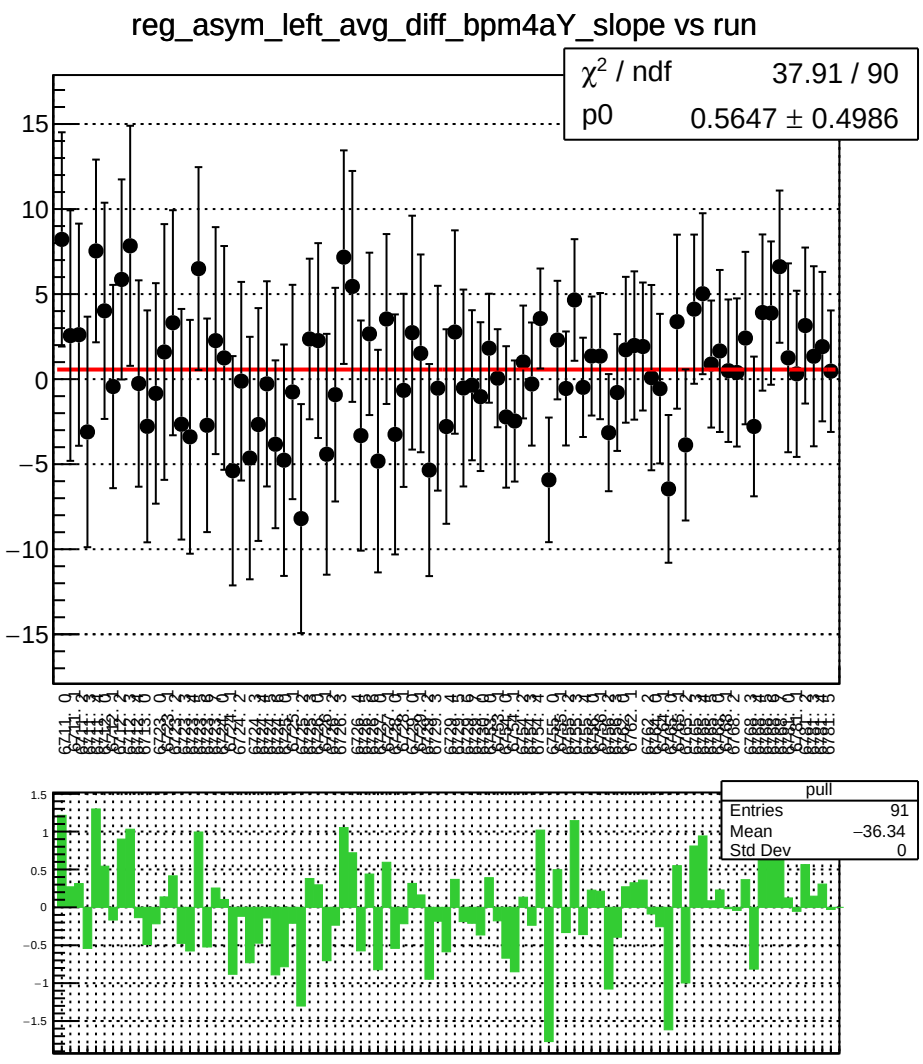

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 100.4 / 90
p0 −0.01876 ± 0.1888
pull
Entries 91
Mean 14.36
Std Dev 0
pull1D
Entries 91
Mean −0.04073
Std Dev 1.05

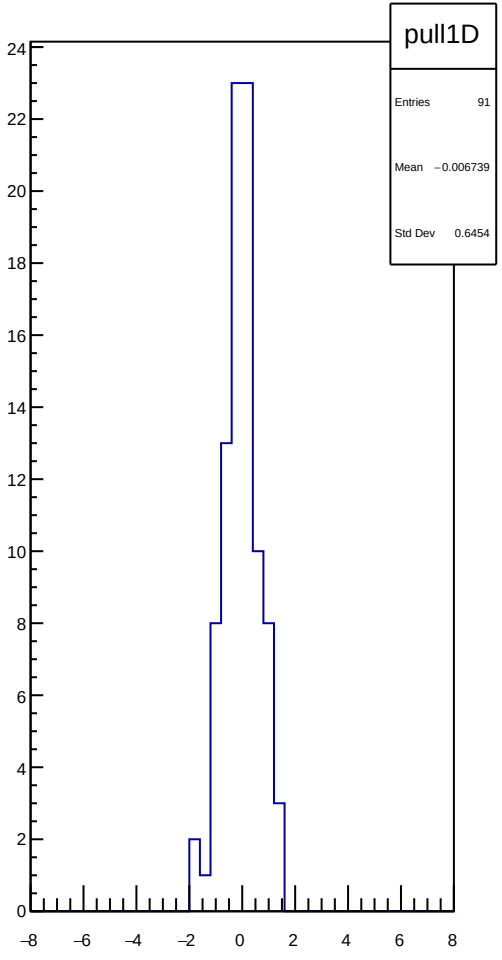

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 55.46 / 90
p0 −0.001278 ± 0.01081
pull
Entries 91
Mean 540.7
Std Dev 0

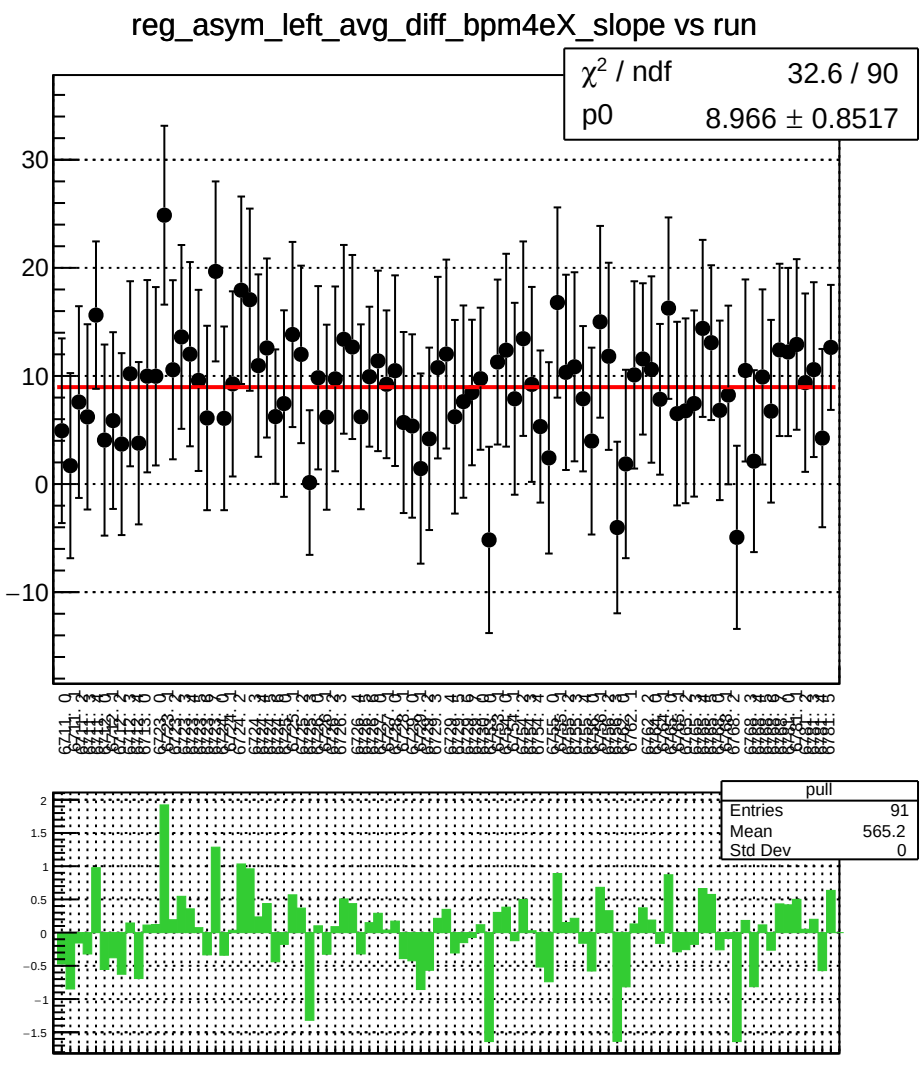

pull1D
Entries 91
Mean −0.005793
Std Dev 0.7807

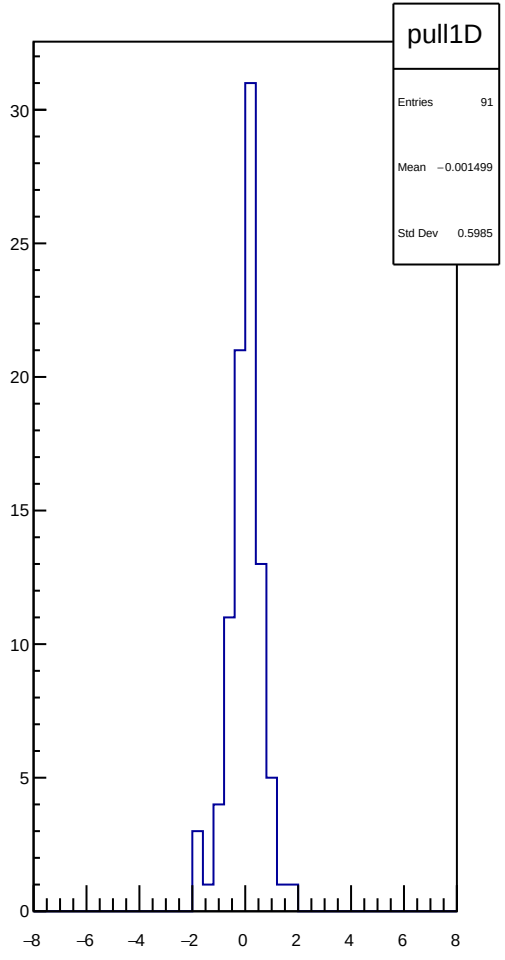

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 34.53 / 90
p0 −40.45 ± 0.8896
pull
Entries 91
Mean 1847
Std Dev 0

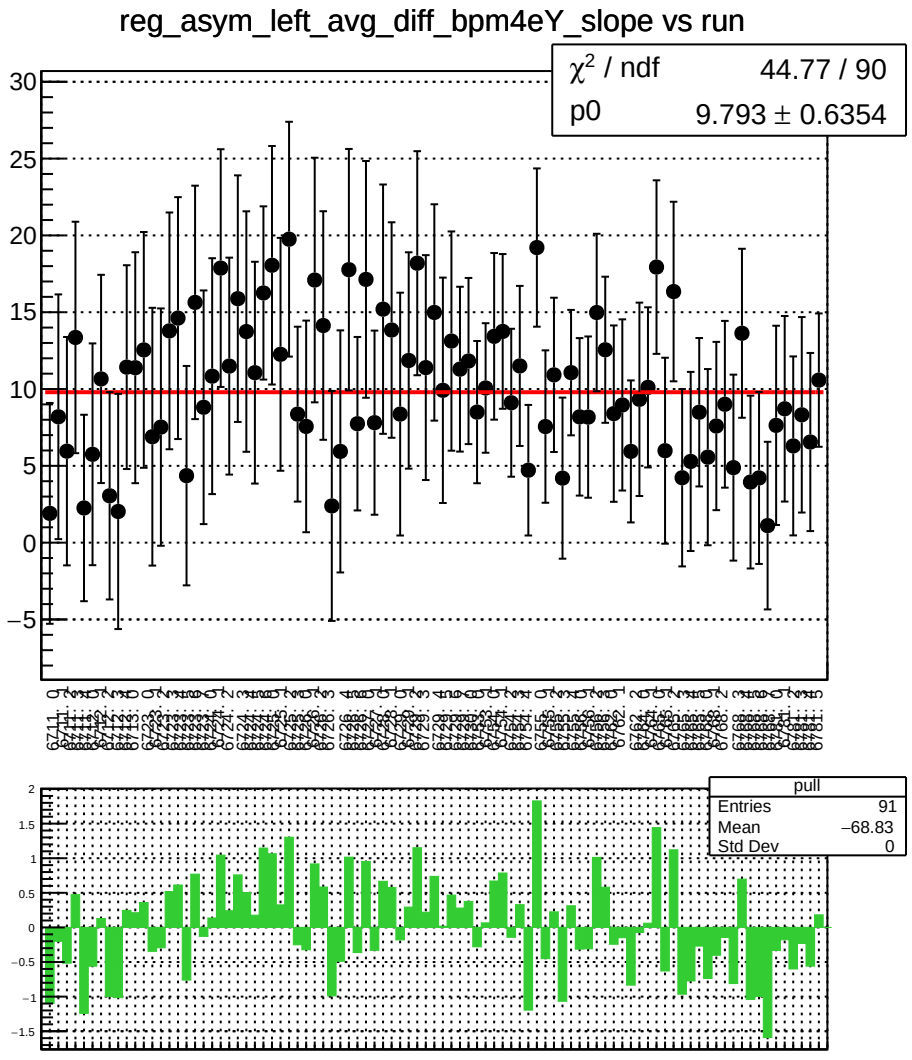

pull1D
Entries 91
Mean −0.002382
Std Dev 0.616

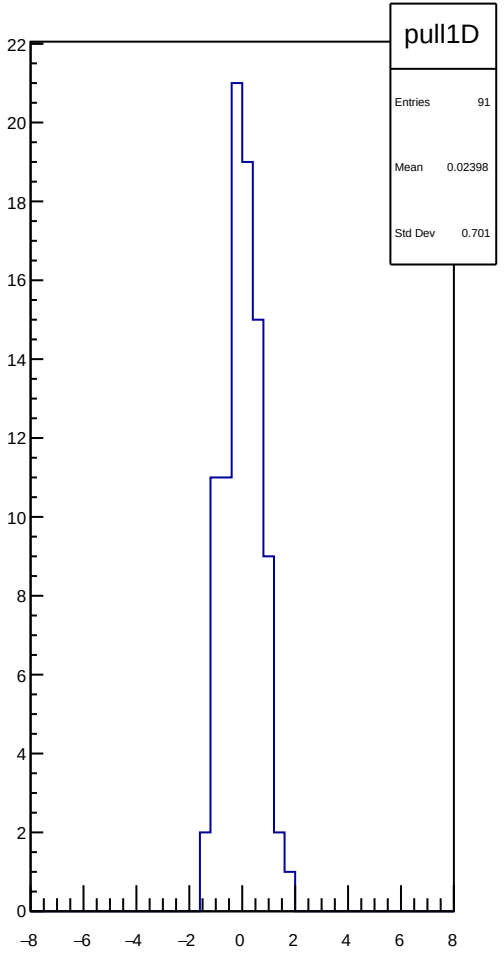

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.91 / 90
p0 0.5647 ± 0.4986
pull
Entries 91
Mean −36.34
Std Dev 0

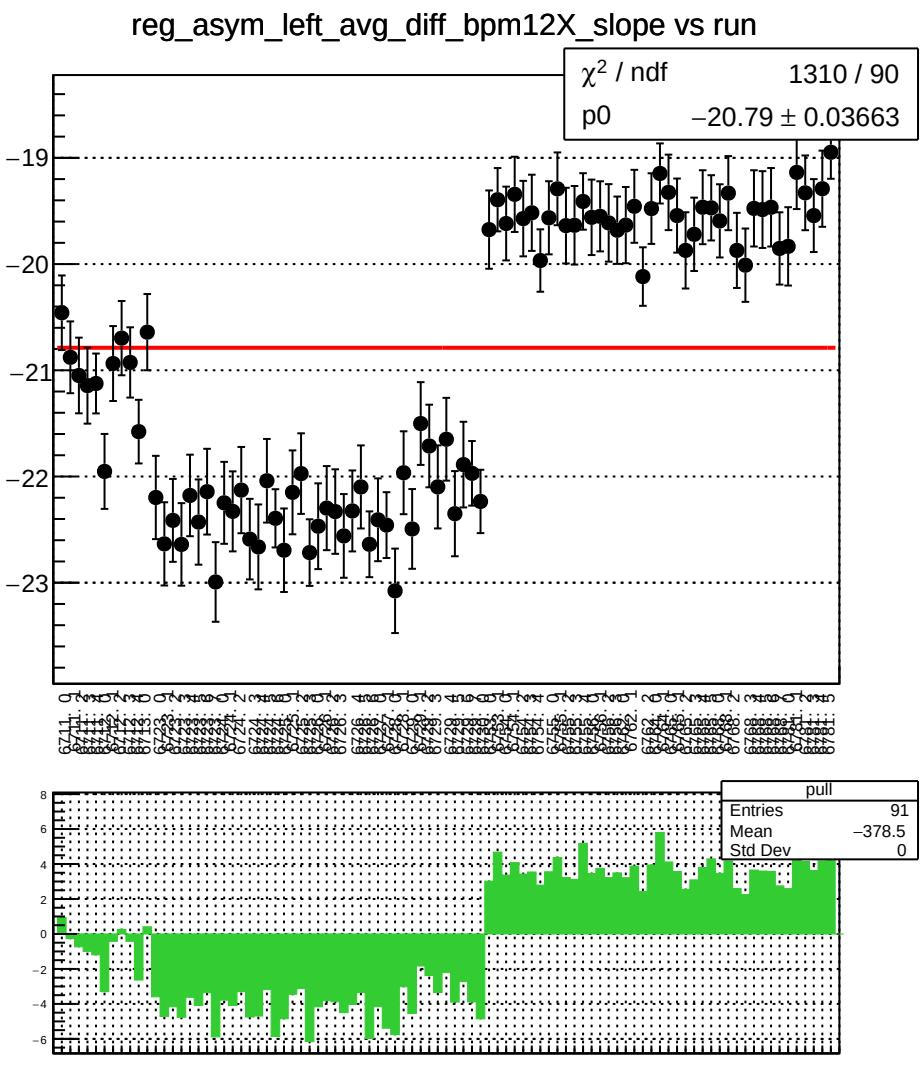

pull1D
Entries 91
Mean −0.006739
Std Dev 0.6454

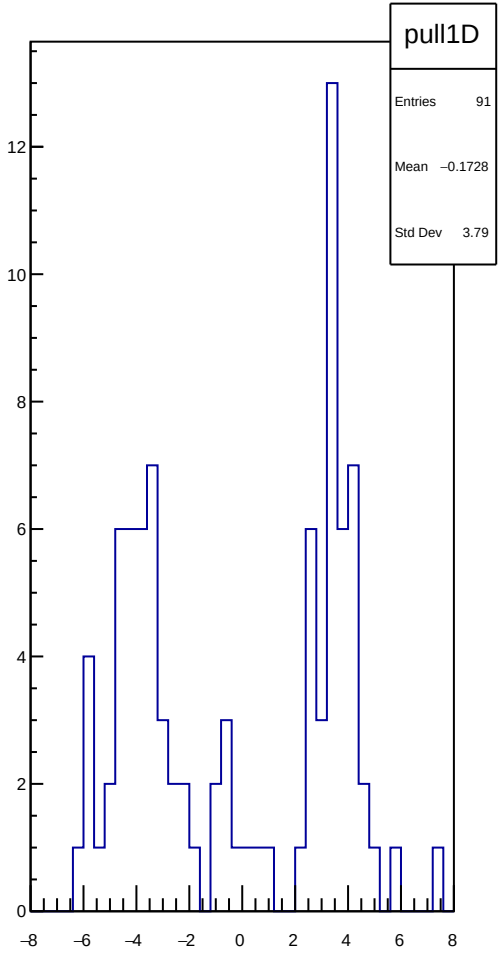

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 32.6 / 90
p0 8.966 ± 0.8517
pull
Entries 91
Mean 565.2
Std Dev 0

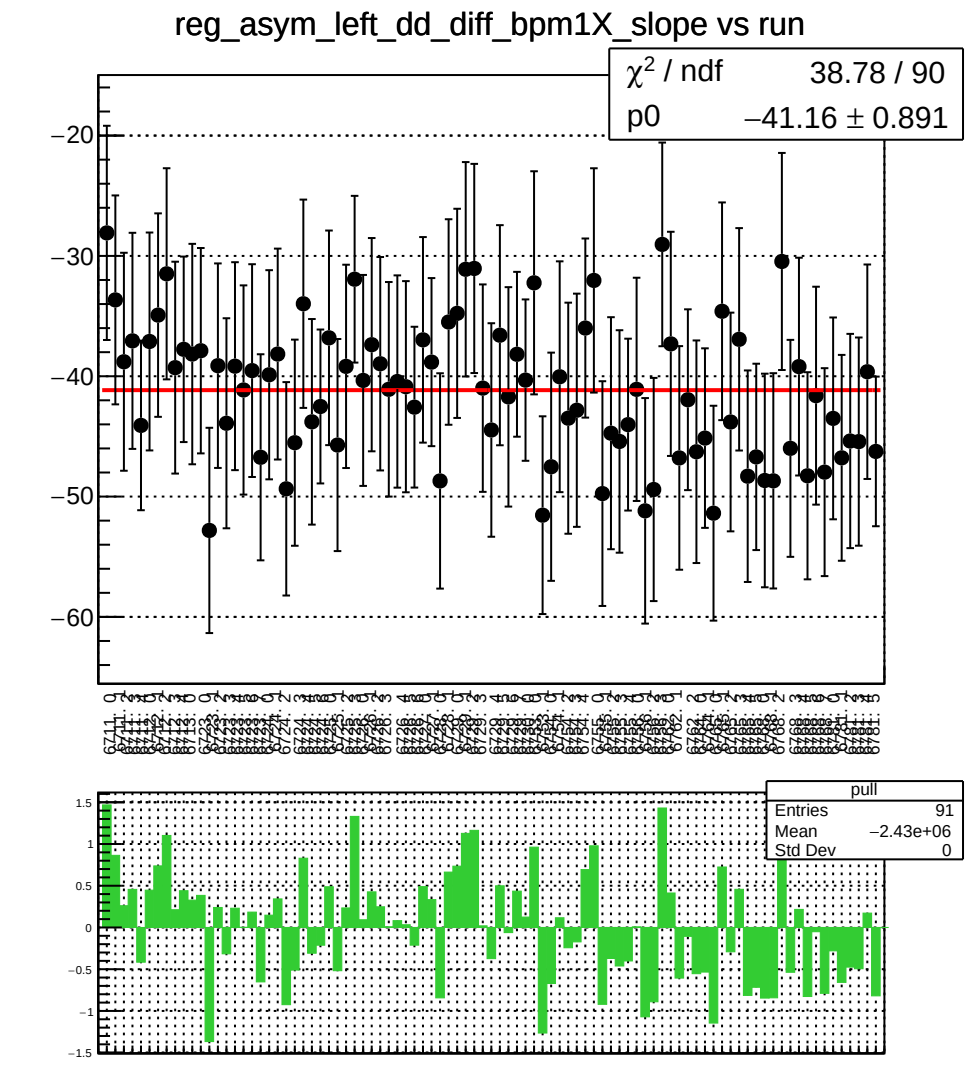

pull1D
Entries 91
Mean −0.001499
Std Dev 0.5985

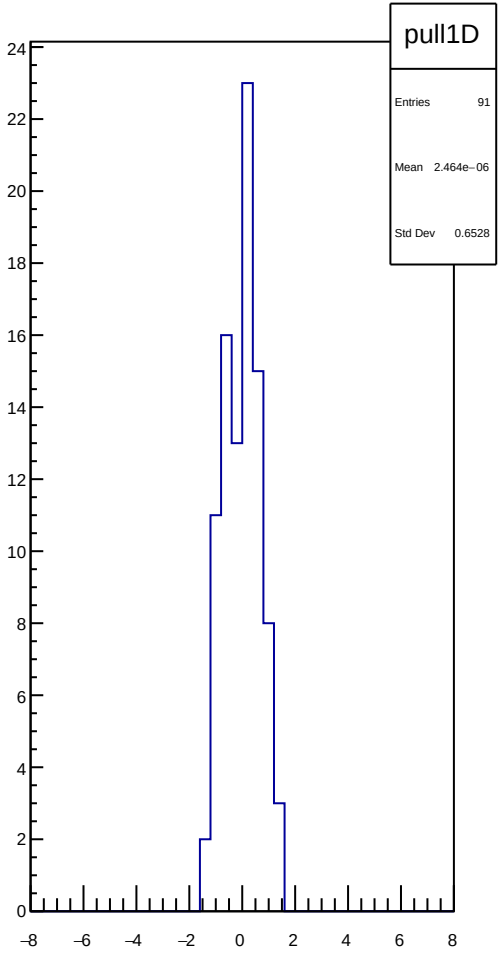

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 44.77 / 90
p0 9.793 ± 0.6354
pull
Entries 91
Mean −68.83
Std Dev 0

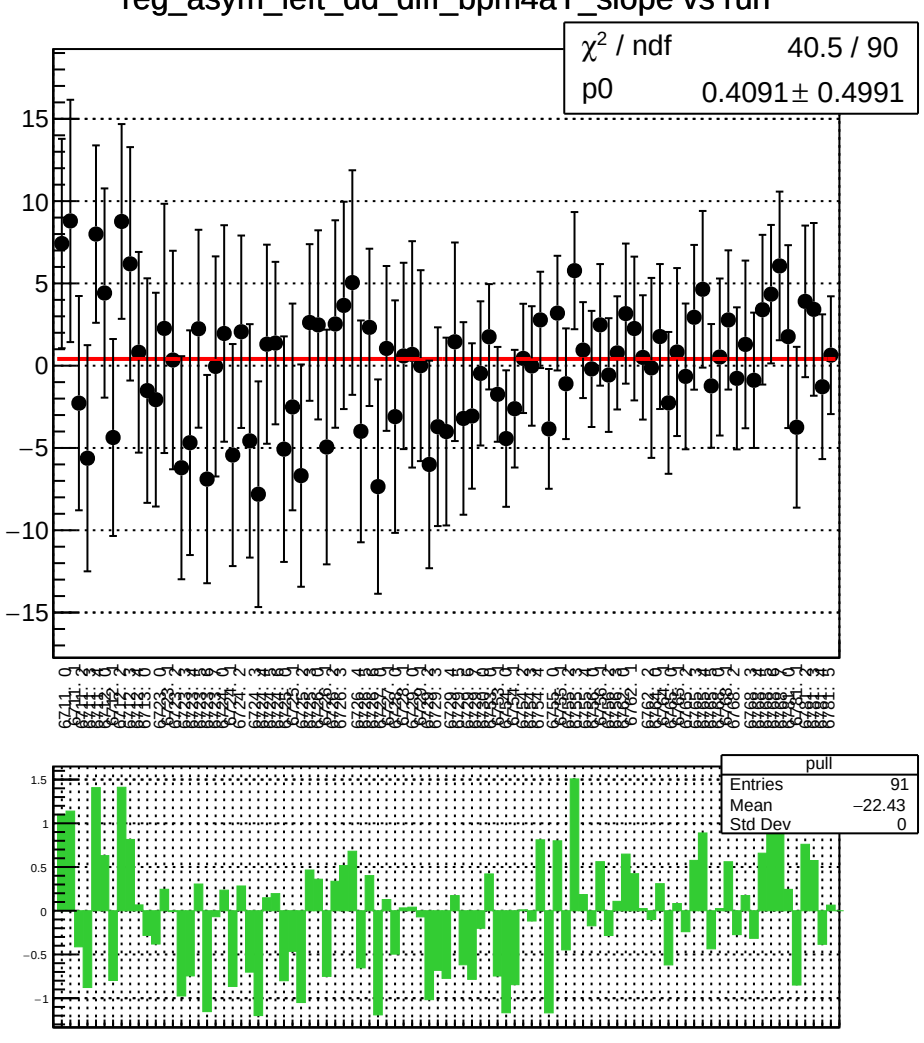

pull1D
Entries 91
Mean 0.02398
Std Dev 0.701

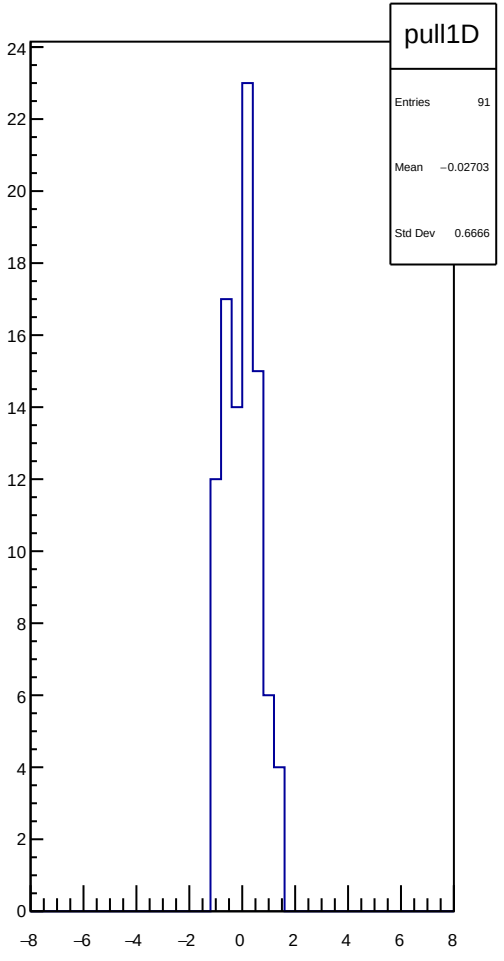

reg_asym_left_avg_diff_bpm12X_slope vs run
χ^2 / ndf 1310 / 90
p0 −20.79 ± 0.03663
−19
−20
−21
−22
−23
pull
Entries 91
Mean −378.5
Std Dev 0
8
6
4
2
0
−2
−4
−6

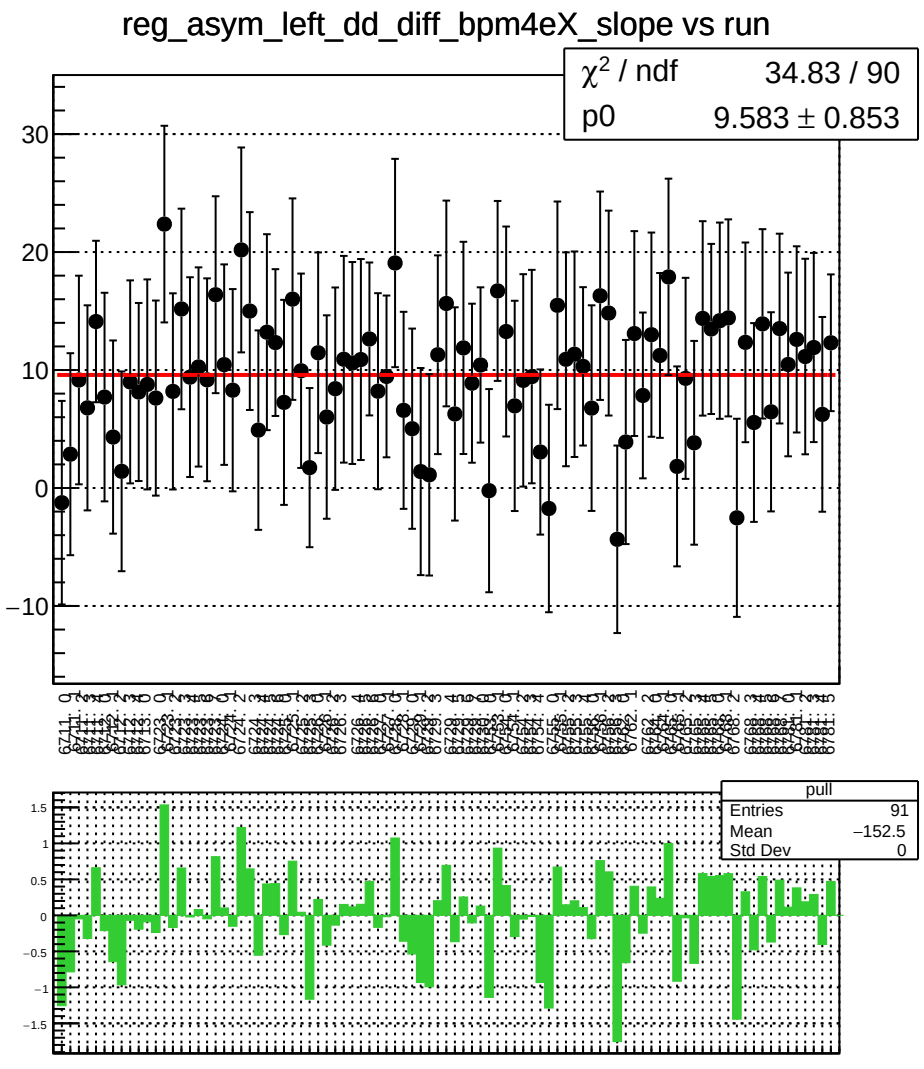

pull1D
Entries 91
Mean −0.1728
Std Dev 3.79
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

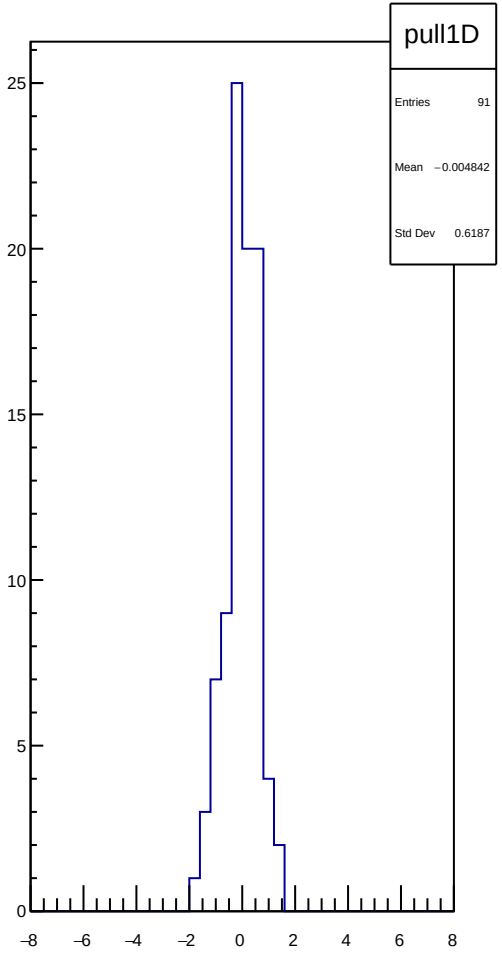

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 38.78 / 90
p0 −41.16 ± 0.891
pull
Entries 91
Mean −2.43e+06
Std Dev 0

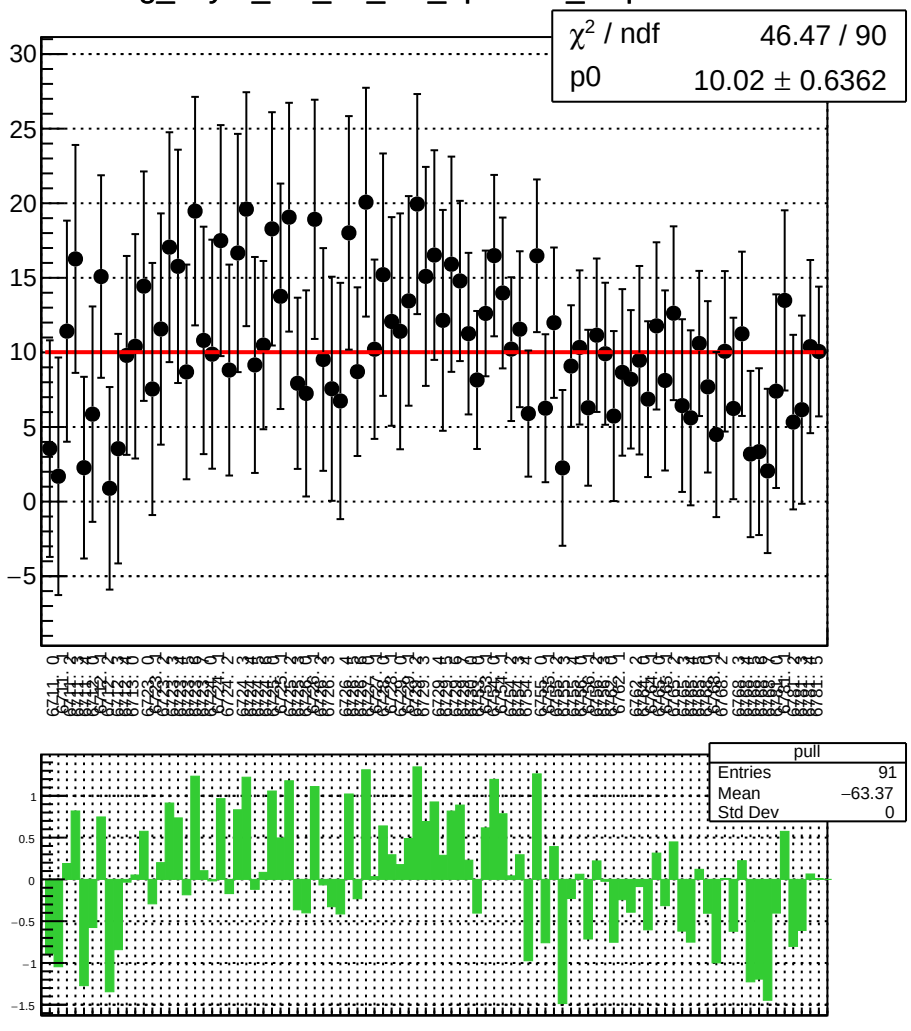

pull1D
Entries 91
Mean 2.464e−06
Std Dev 0.6528

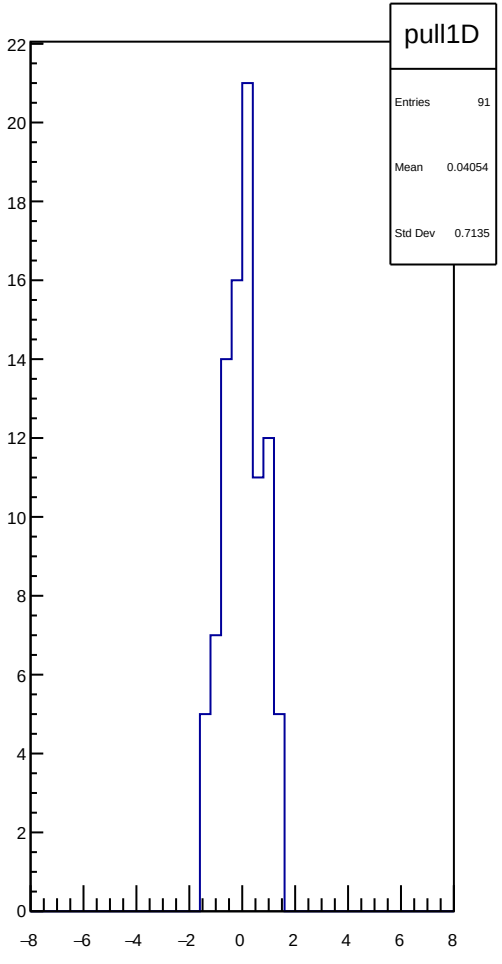

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 40.5 / 90
p0 0.4091 ± 0.4991
pull
Entries 91
Mean −22.43
Std Dev 0

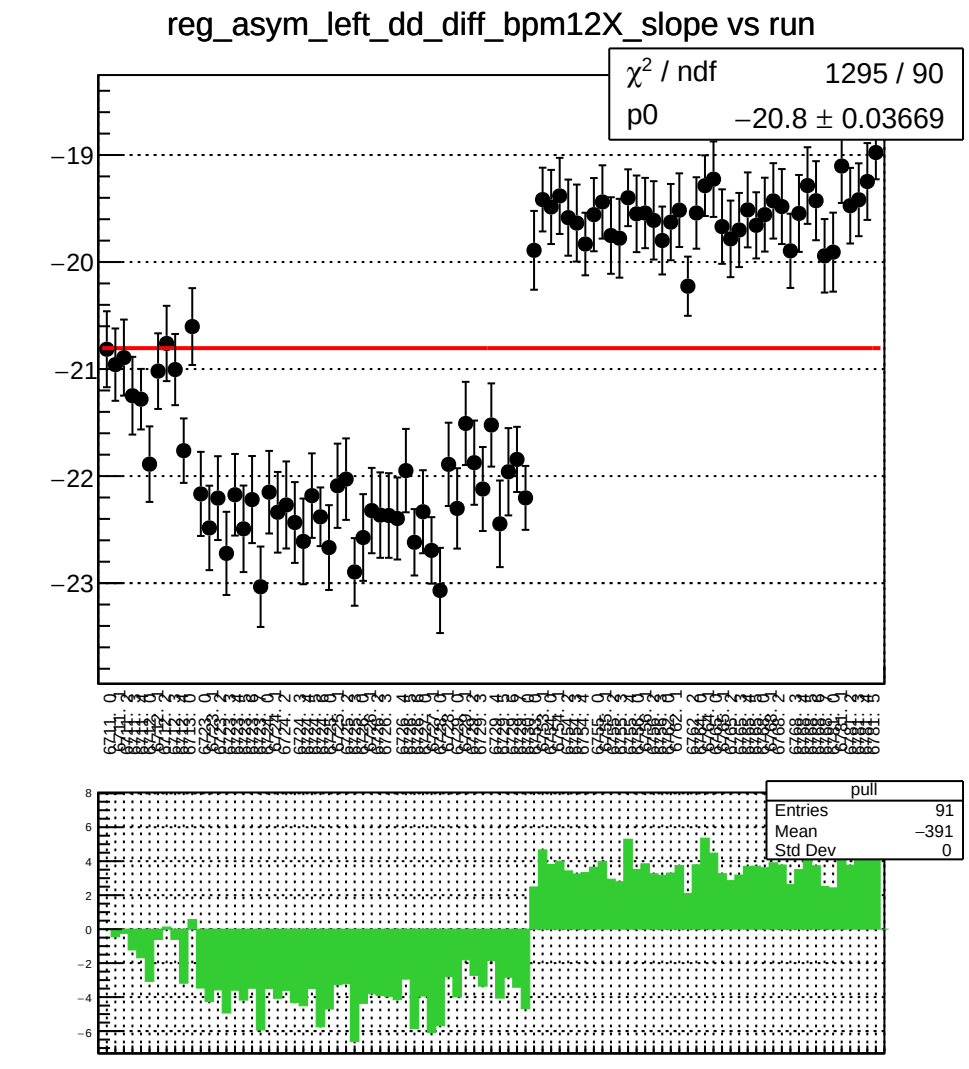

pull1D
Entries 91
Mean −0.02703
Std Dev 0.6666

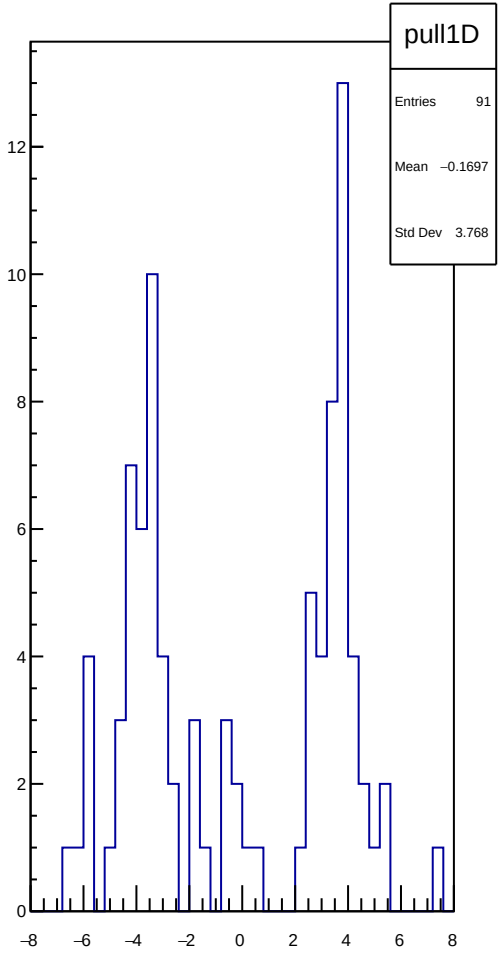

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.83 / 90
p0 9.583 ± 0.853
pull
Entries 91
Mean −152.5
Std Dev 0

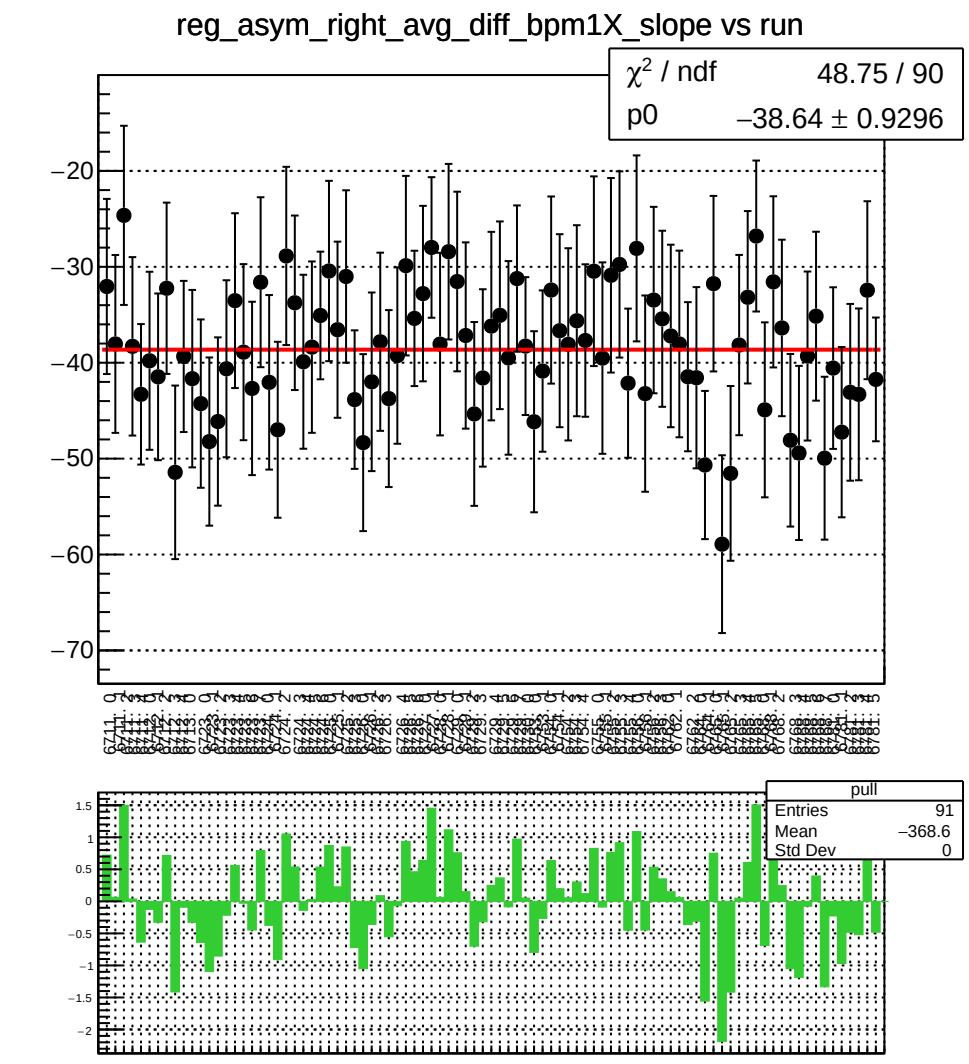

pull1D
Entries 91
Mean −0.004842
Std Dev 0.6187

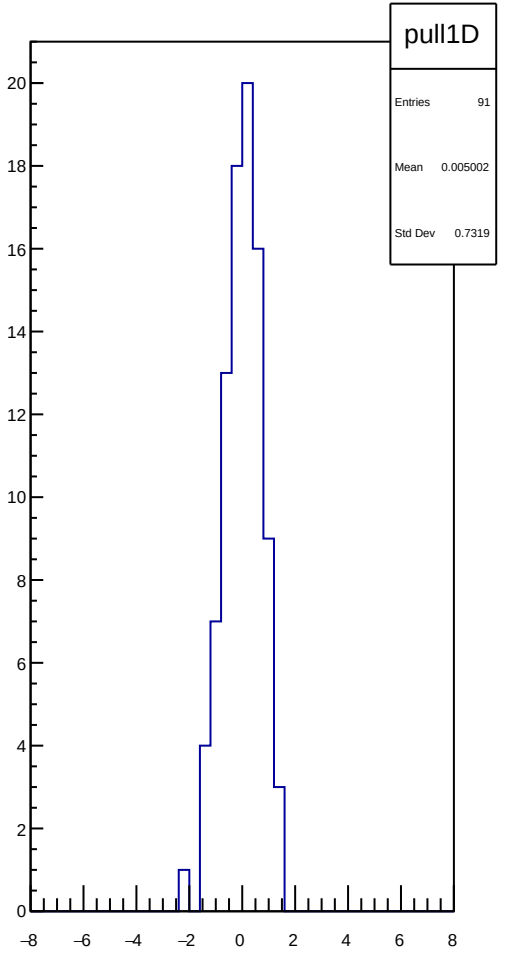

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.47 / 90
p0 10.02 ± 0.6362
pull
Entries 91
Mean −63.37
Std Dev 0

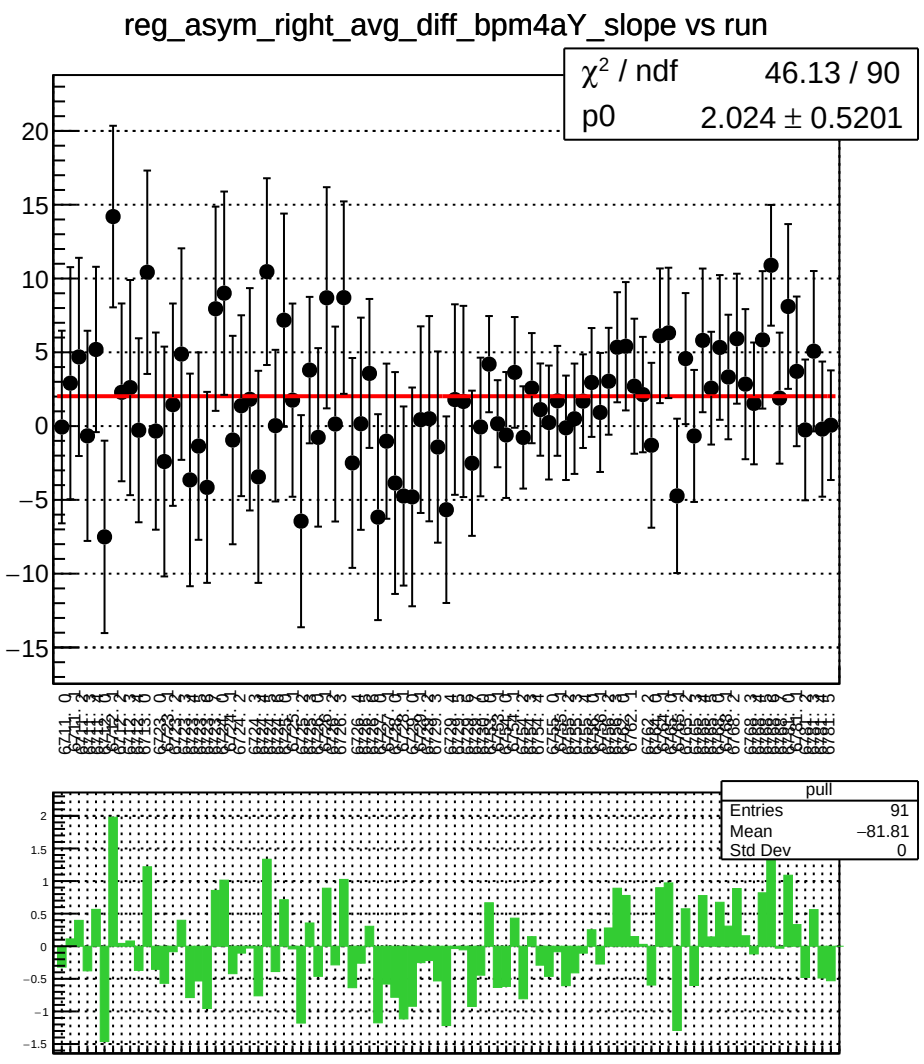

pull1D
Entries 91
Mean 0.04054
Std Dev 0.7135

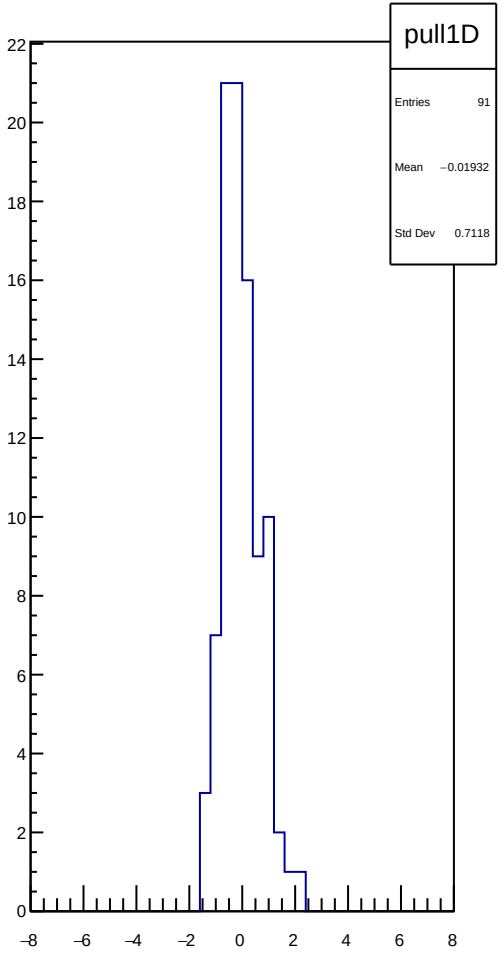

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 1295 / 90
p0 −20.8 ± 0.03669
−19
−20
−21
−22
−23
pull
Entries 91
Mean −391
Std Dev 0
8
6
4
2
0
−2
−4
−6

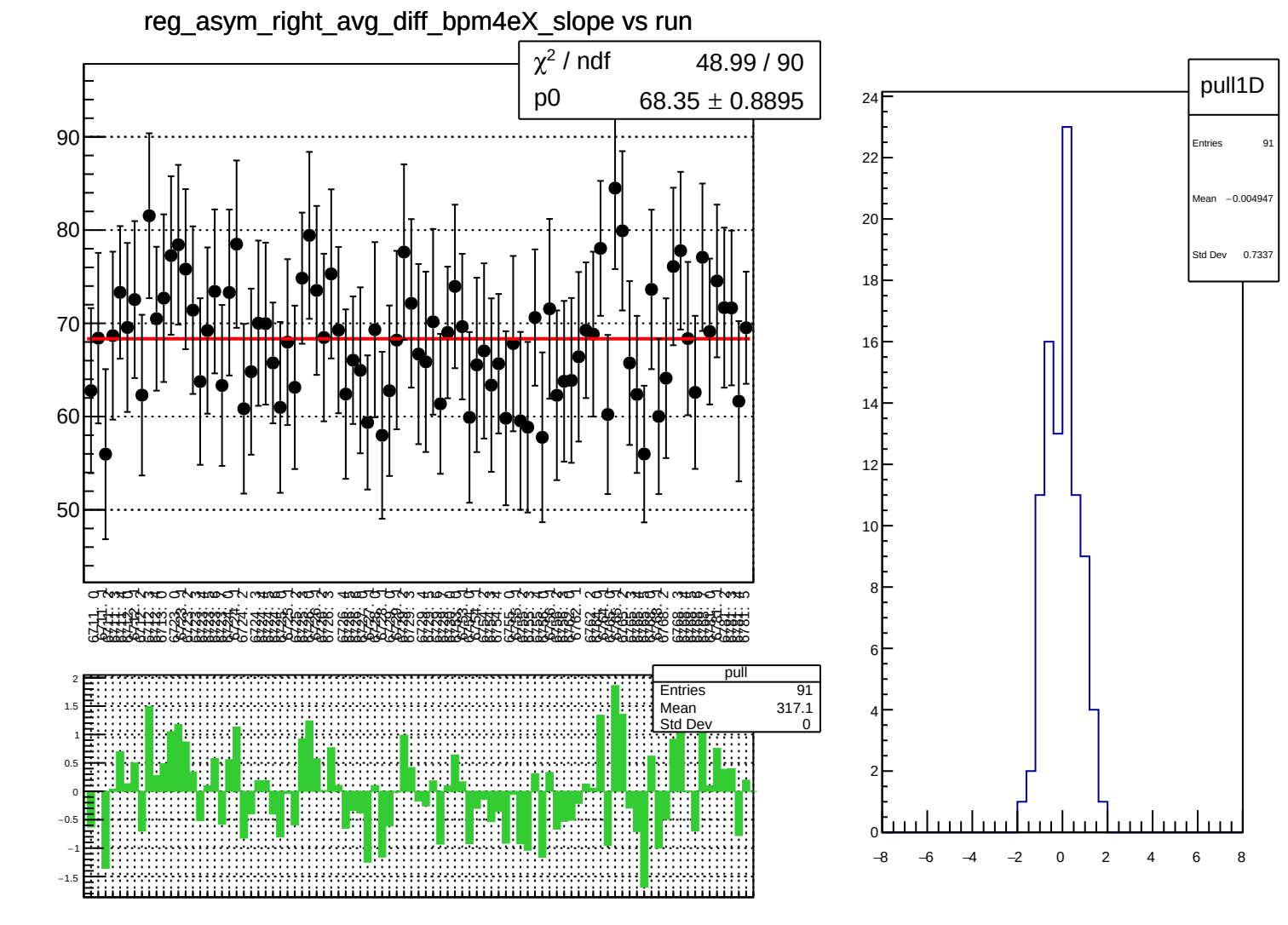

pull1D
Entries 91
Mean −0.1697
Std Dev 3.768
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

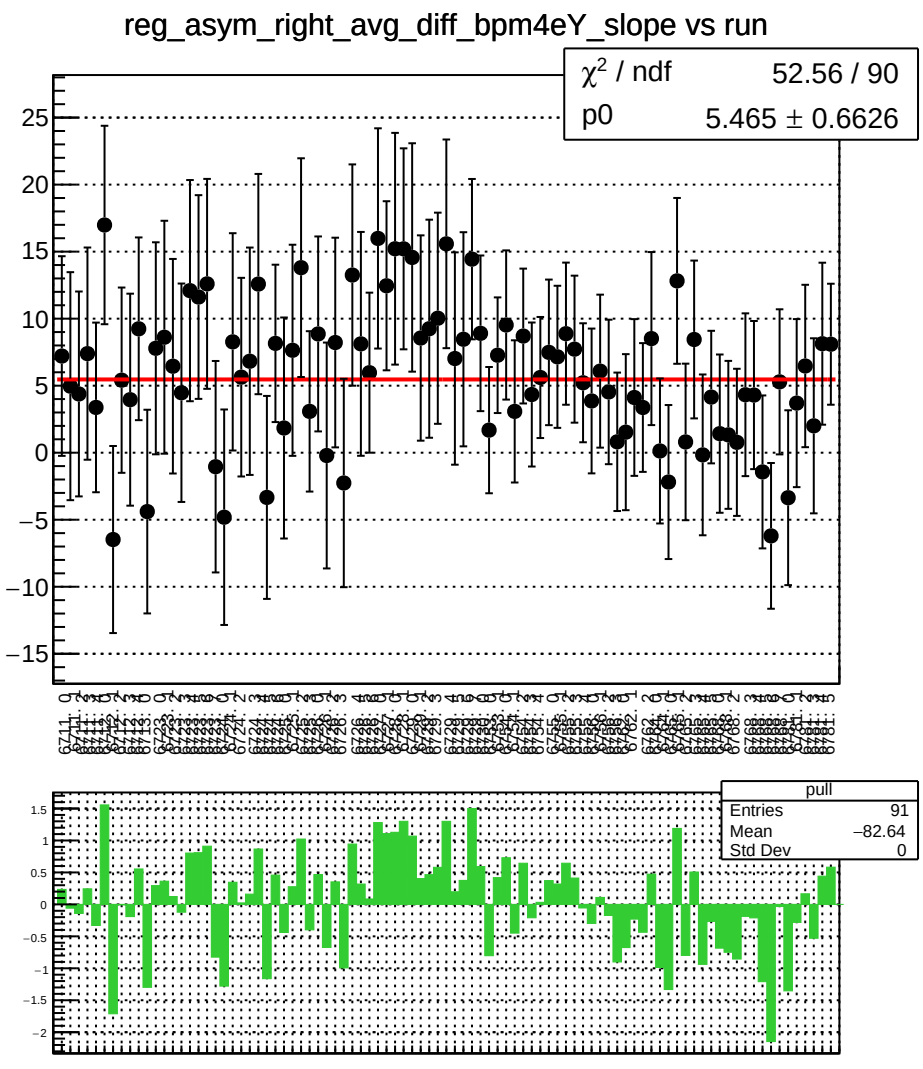

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 48.75 / 90
p0 −38.64 ± 0.9296
pull
Entries 91
Mean −368.6
Std Dev 0

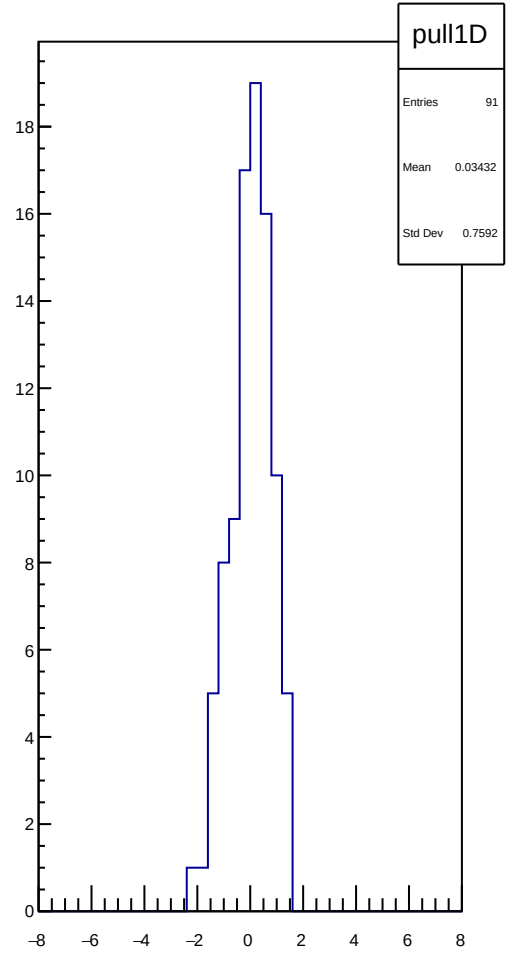

pull1D
Entries 91
Mean 0.005002
Std Dev 0.7319

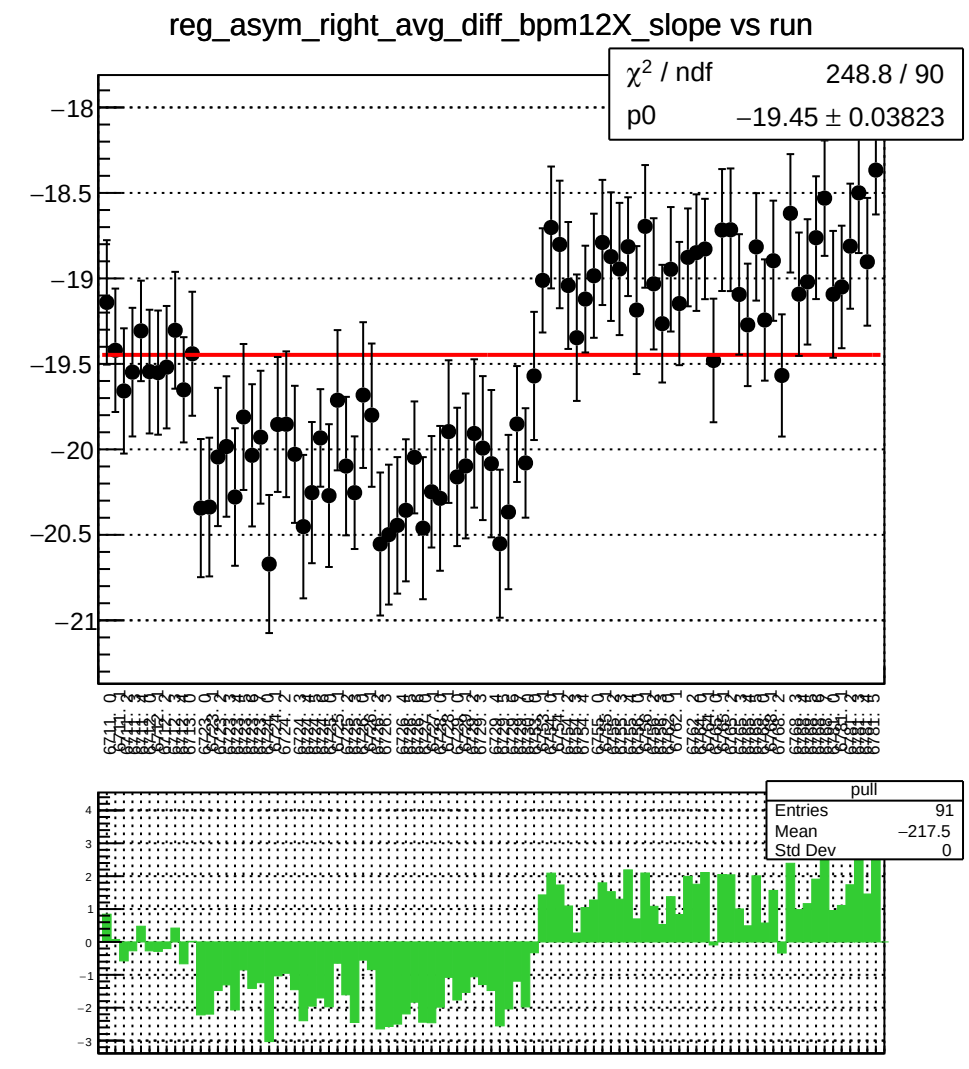

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.13 / 90
p0 2.024 ± 0.5201
pull
Entries 91
Mean −81.81
Std Dev 0

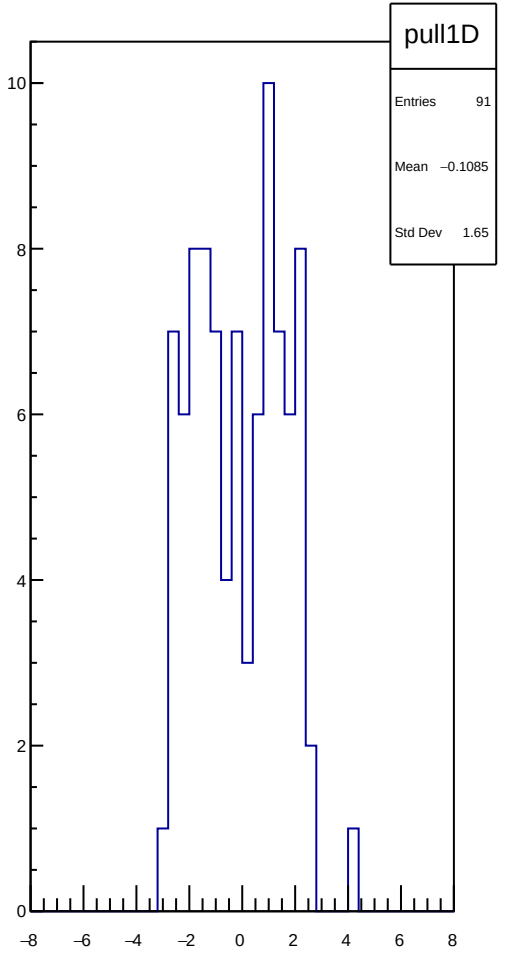

pull1D
Entries 91
Mean −0.01932
Std Dev 0.7118

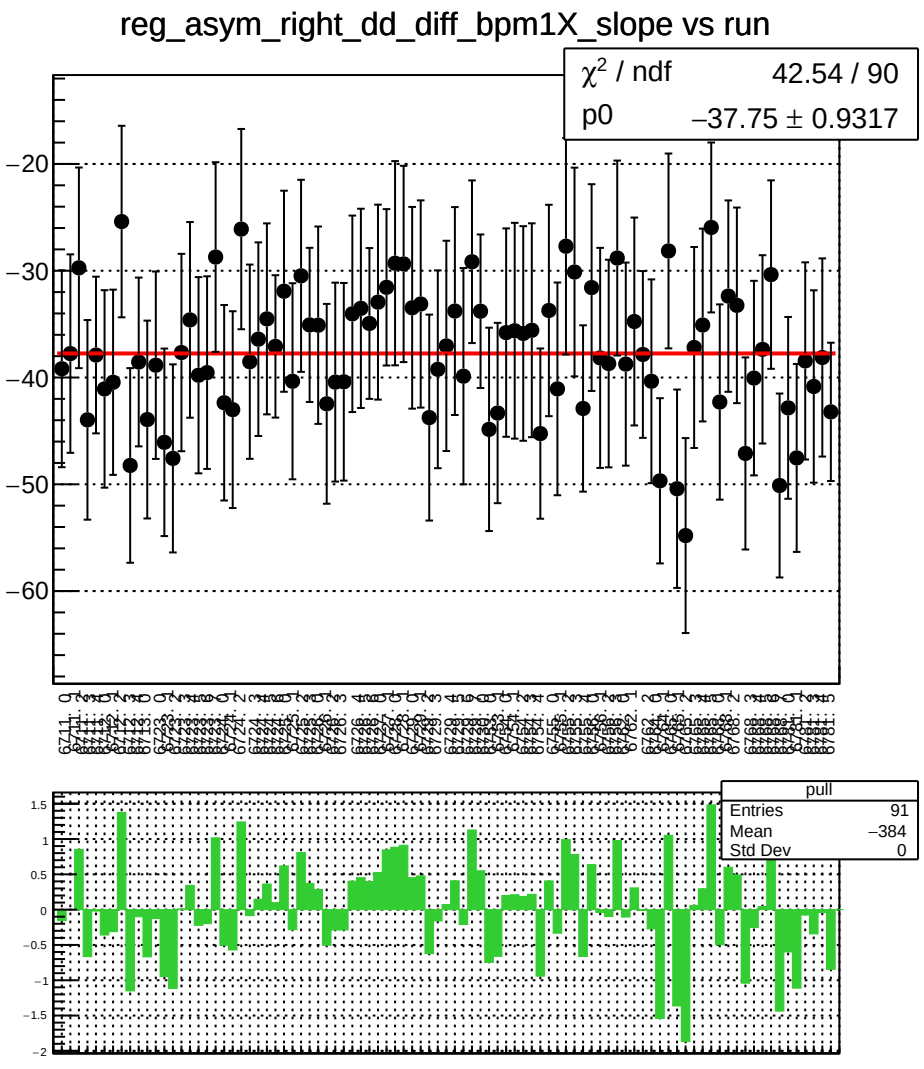

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 48.99 / 90
p0 68.35 ± 0.8895
pull
Entries 91
Mean 317.1
Std Dev 0
pull1D
Entries 91
Mean −0.004947
Std Dev 0.7337

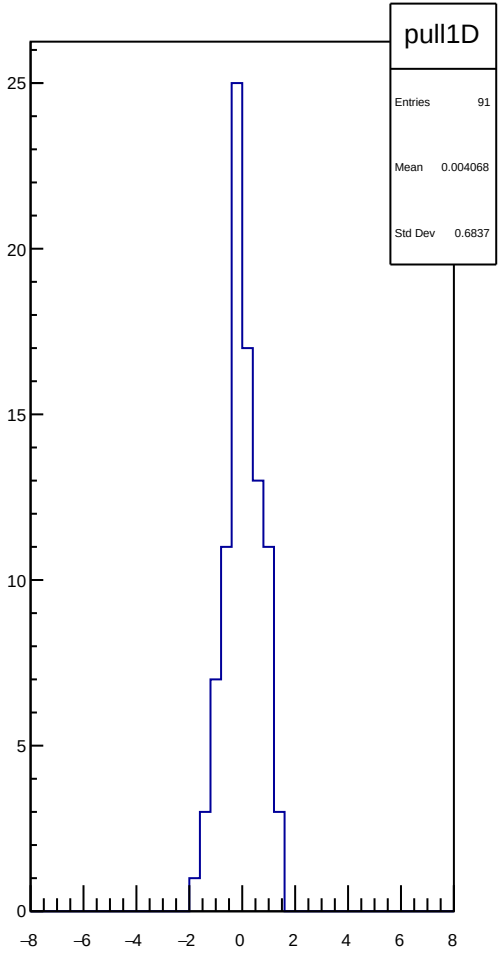

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 52.56 / 90
p0 5.465 ± 0.6626
pull
Entries 91
Mean −82.64
Std Dev 0

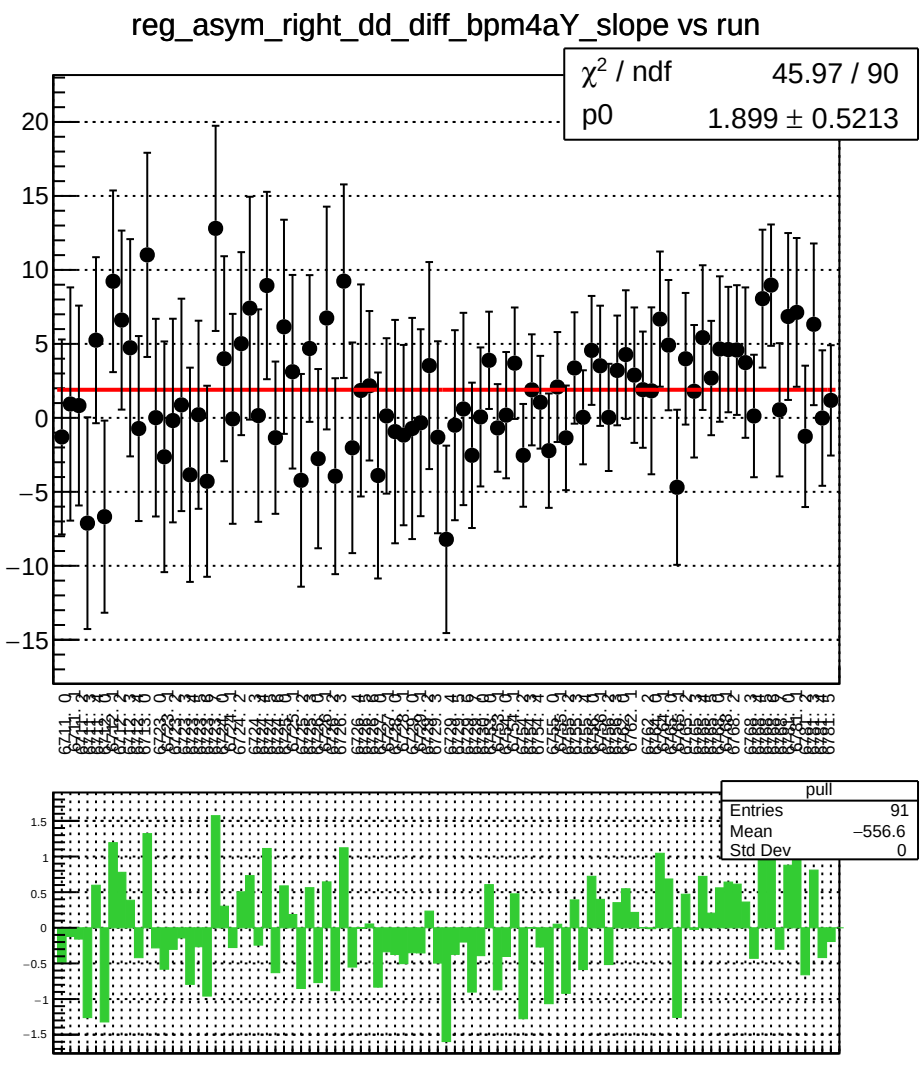

pull1D
Entries 91
Mean 0.03432
Std Dev 0.7592

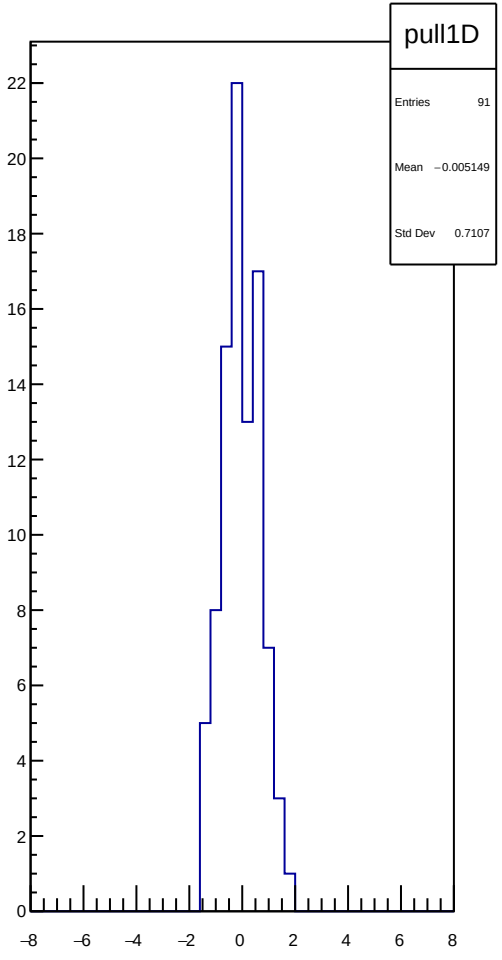

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 248.8 / 90
p0 −19.45 ± 0.03823
−18
−18.5
−19
−19.5
−20
−20.5
−21
pull
Entries 91
Mean −217.5
Std Dev 0
4
3
2
1
0
−1
−2
−3

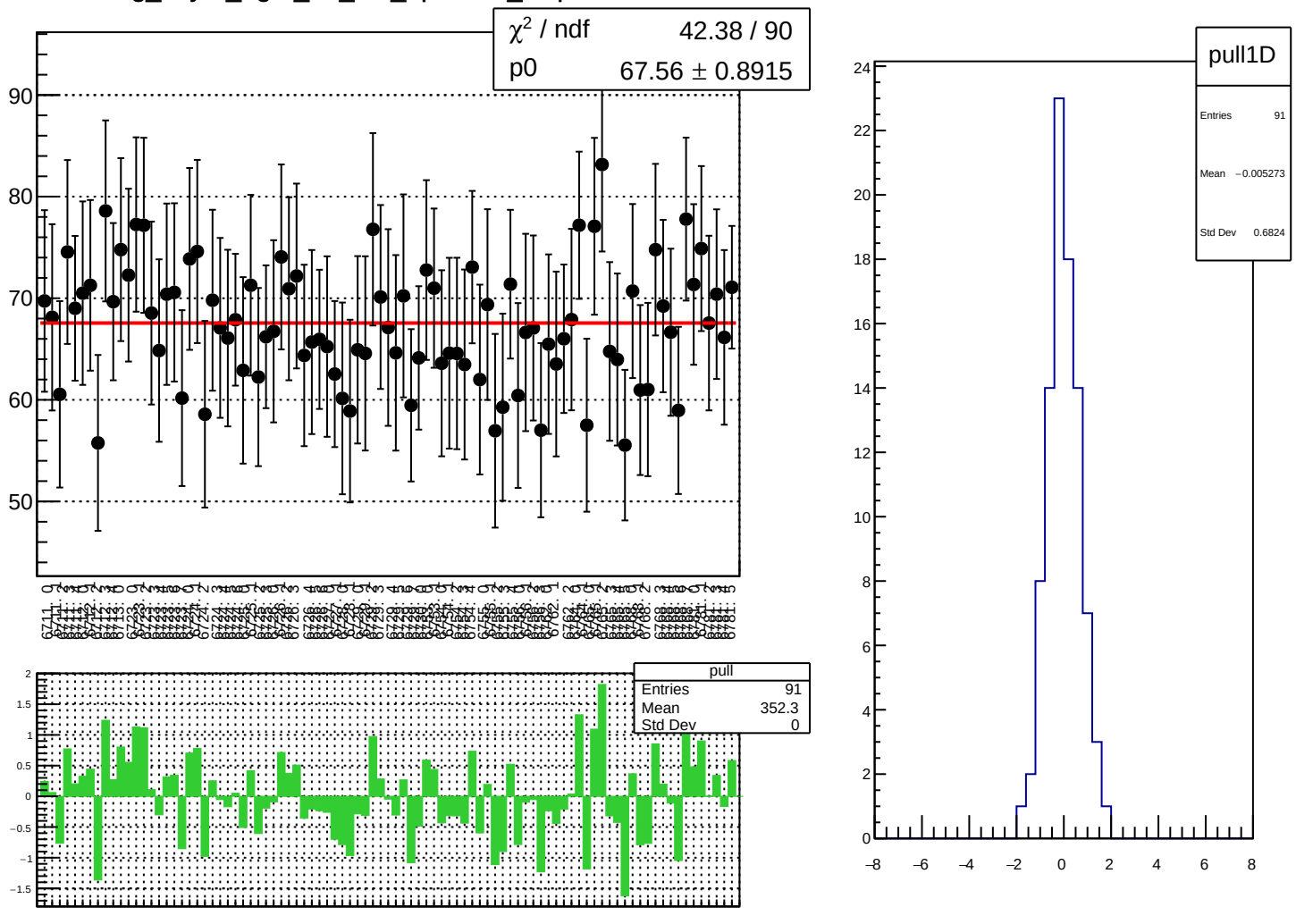

pull1D
Entries 91
Mean −0.1085
Std Dev 1.65
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

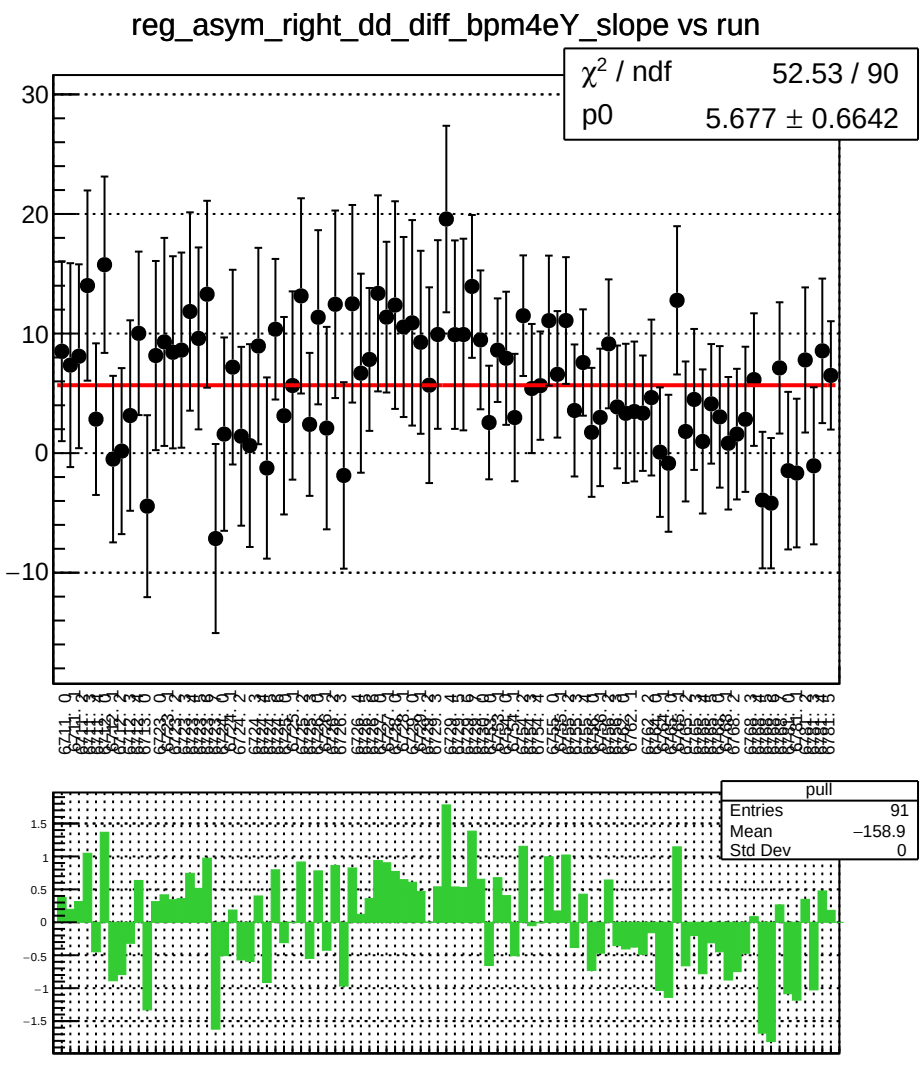

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 42.54 / 90
p0 −37.75 ± 0.9317
pull
Entries 91
Mean −384
Std Dev 0

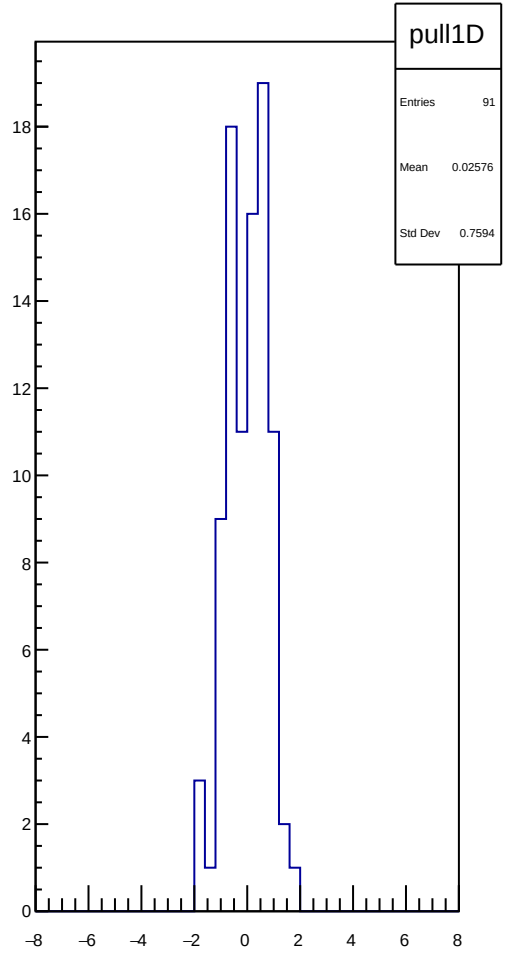

pull1D
Entries 91
Mean 0.004068
Std Dev 0.6837

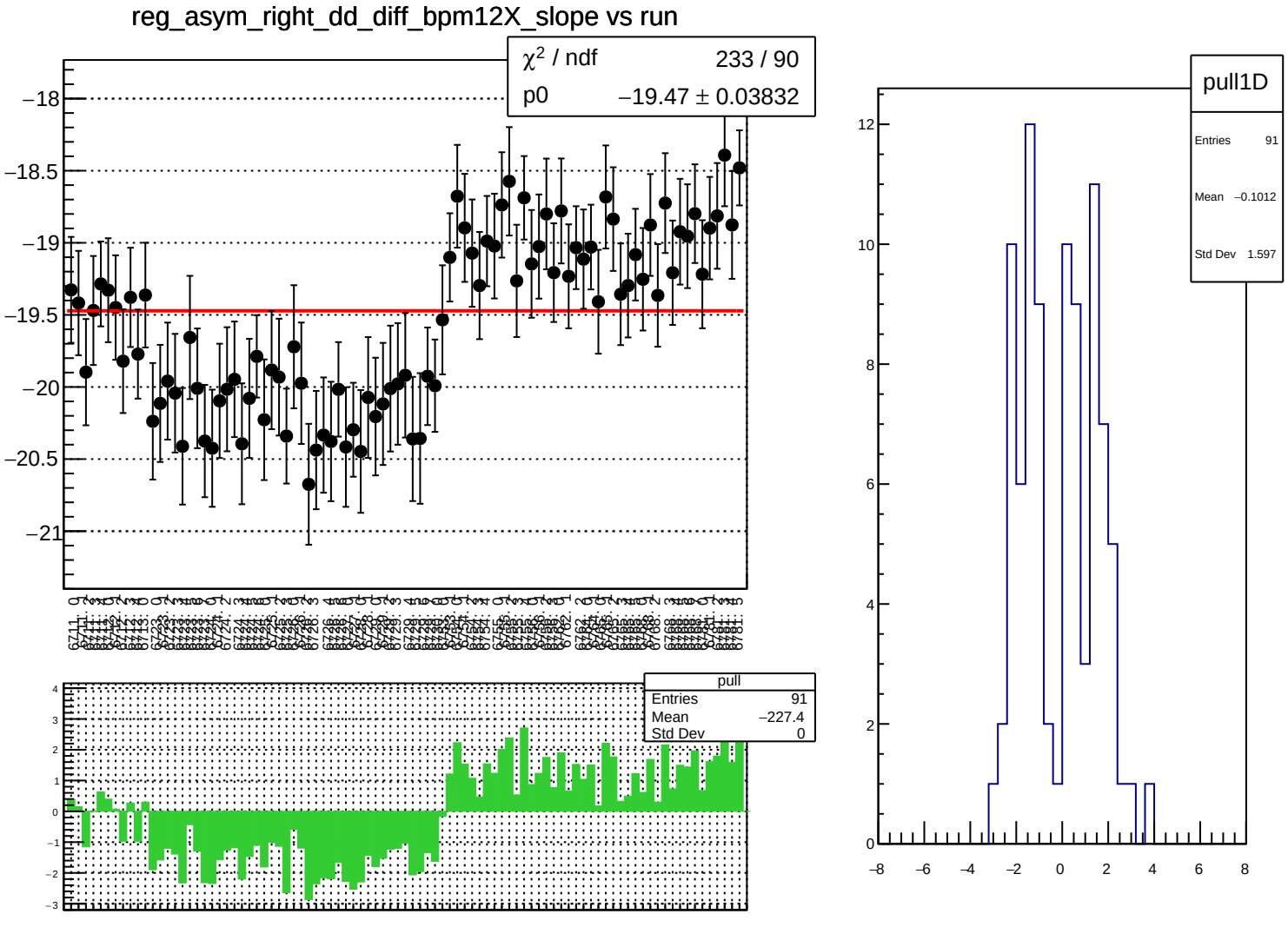

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 45.97 / 90
p0 1.899 ± 0.5213
pull
Entries 91
Mean −556.6
Std Dev 0

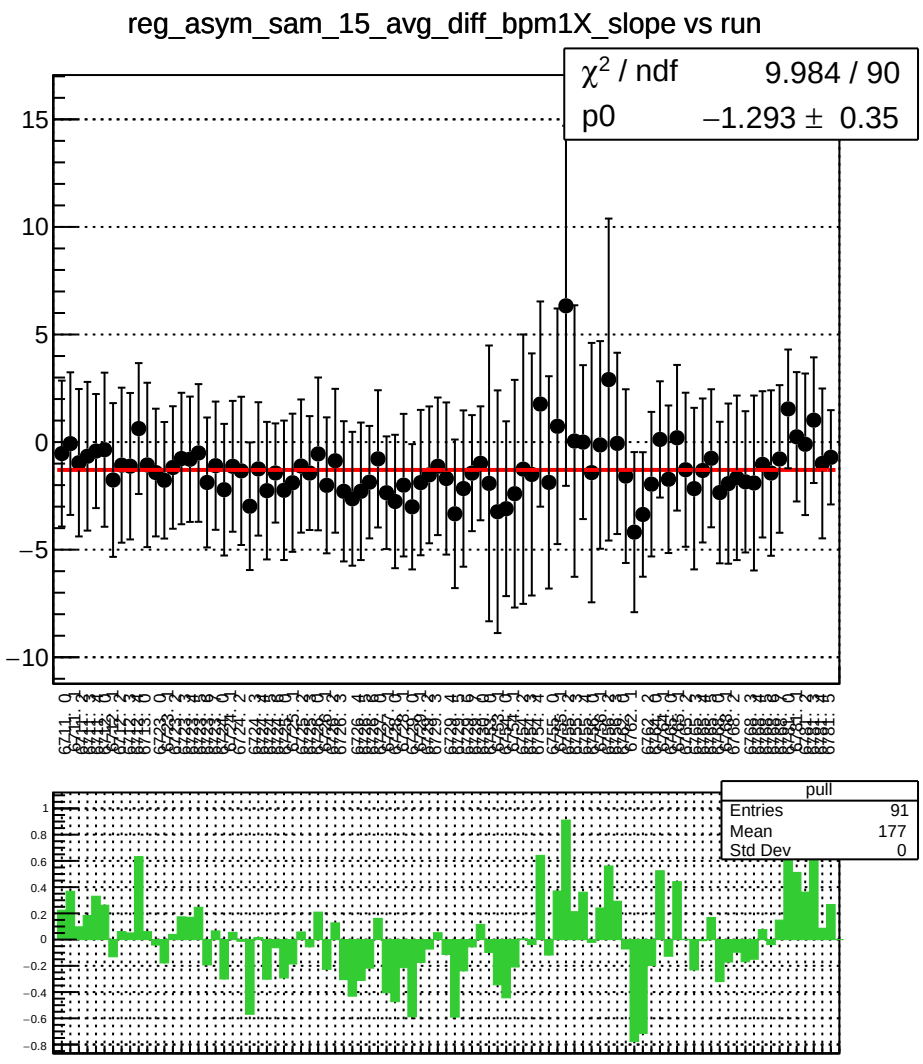

pull1D
Entries 91
Mean −0.005149
Std Dev 0.7107

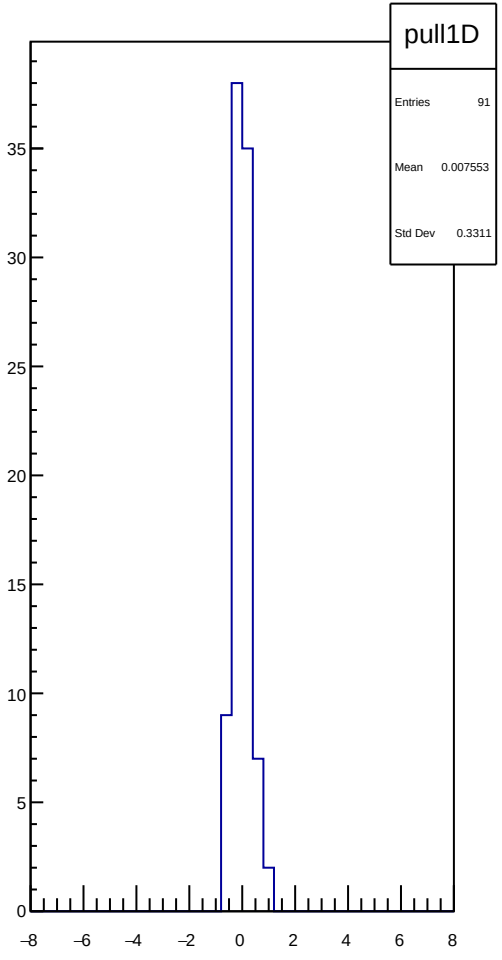

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.38 / 90
p0 67.56 ± 0.8915
pull
Entries 91
Mean 352.3
Std Dev 0
pull1D
Entries 91
Mean −0.005273
Std Dev 0.6824

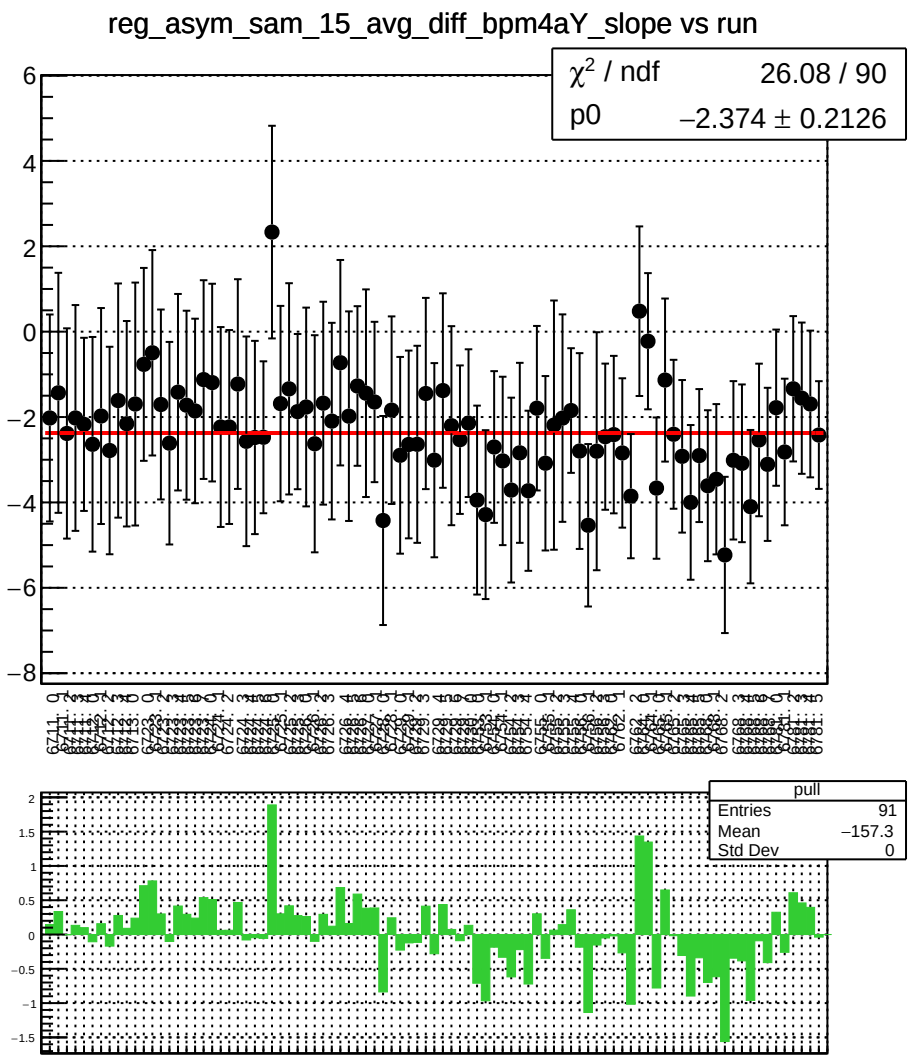

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.53 / 90
p0 5.677 ± 0.6642
pull
Entries 91
Mean −158.9
Std Dev 0

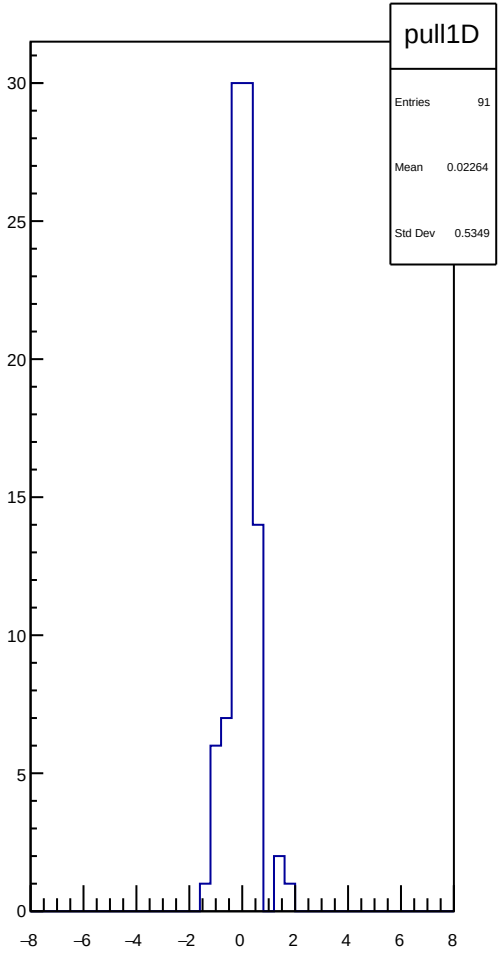

pull1D
Entries 91
Mean 0.02576
Std Dev 0.7594

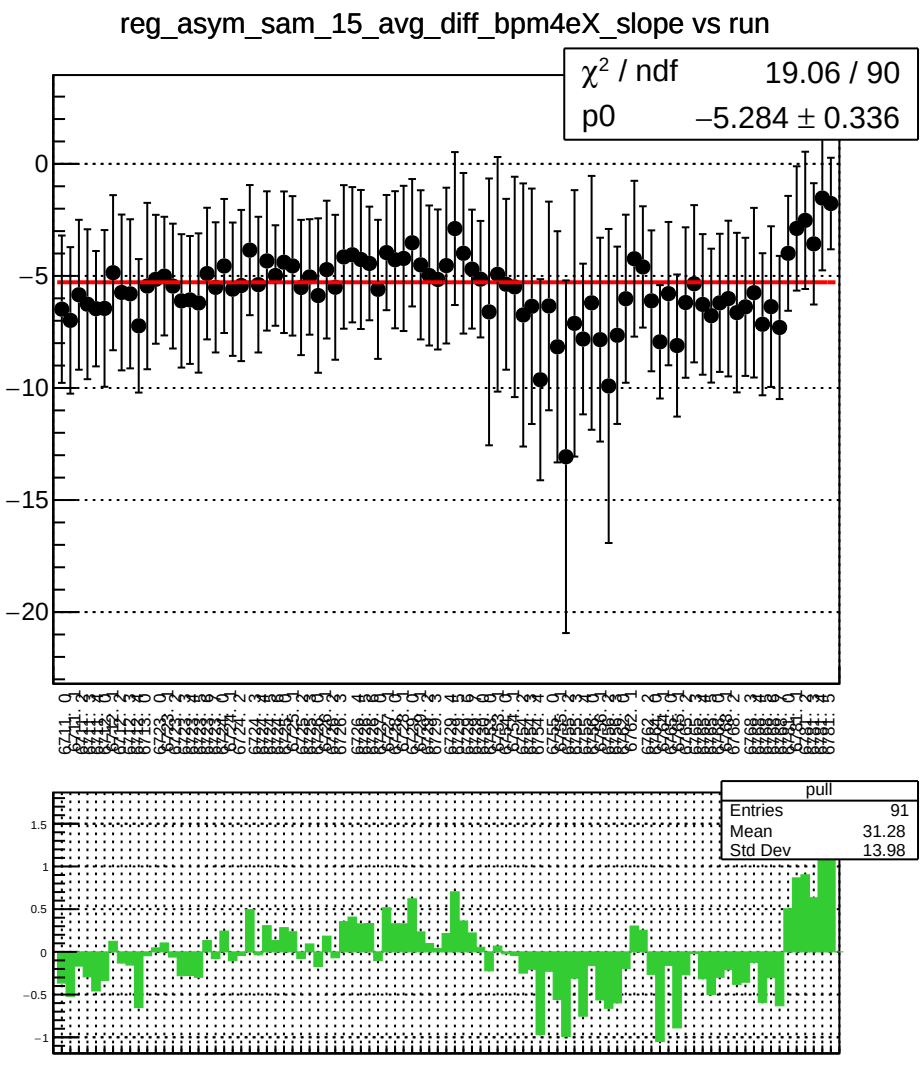

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 233 / 90
p0 −19.47 ± 0.03832
pull
Entries 91
Mean −227.4
Std Dev 0
pull1D
Entries 91
Mean −0.1012
Std Dev 1.597

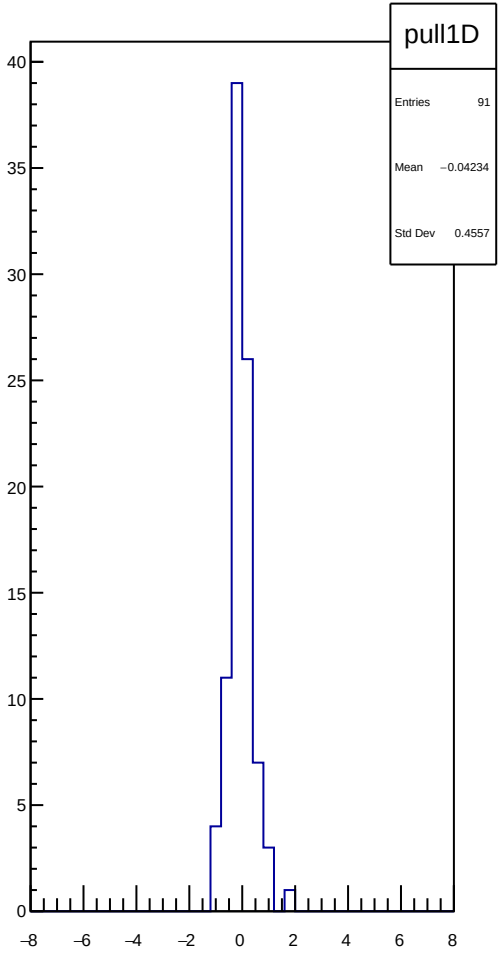

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 9.984 / 90
p0 −1.293 ± 0.35
pull
Entries 91
Mean 177
Std Dev 0

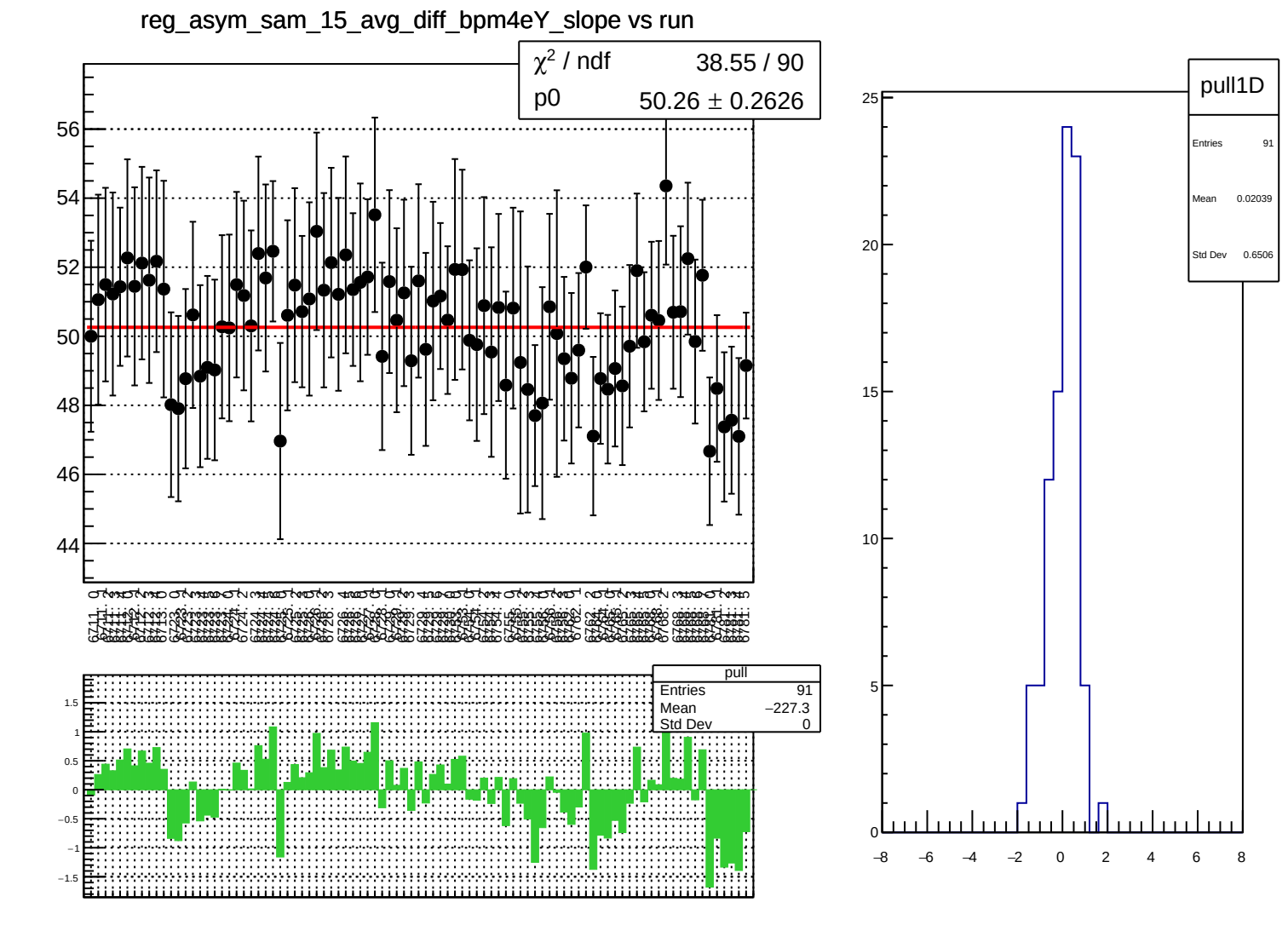

pull1D
Entries 91
Mean 0.007553
Std Dev 0.3311

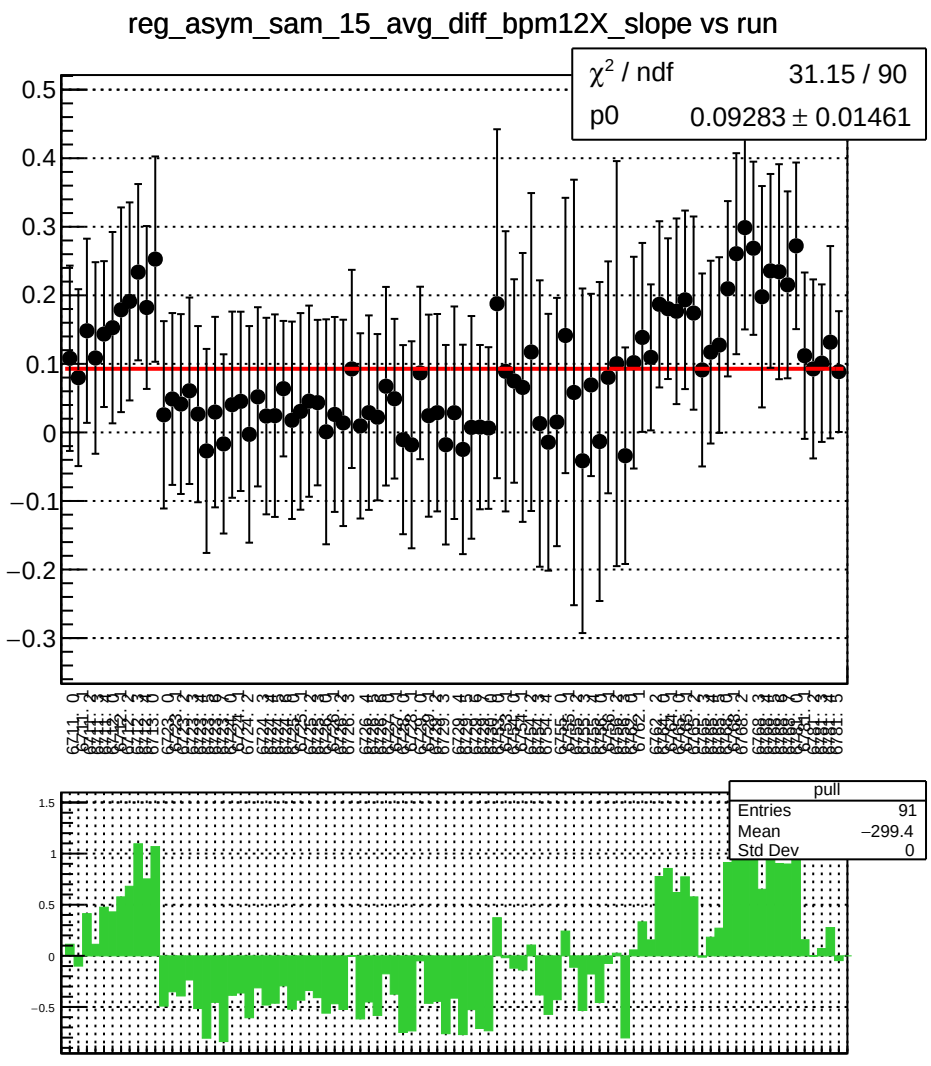

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.08 / 90
p0 −2.374 ± 0.2126
pull
Entries 91
Mean −157.3
Std Dev 0

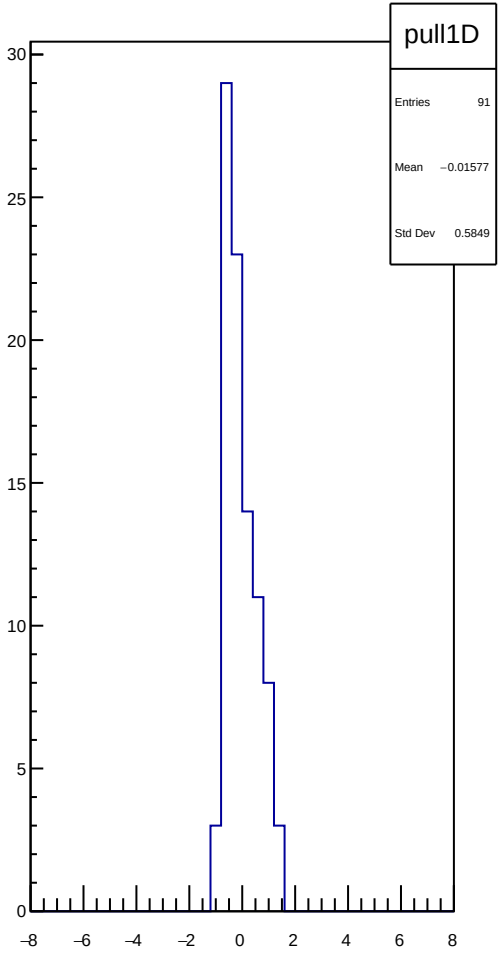

pull1D
Entries 91
Mean 0.02264
Std Dev 0.5349

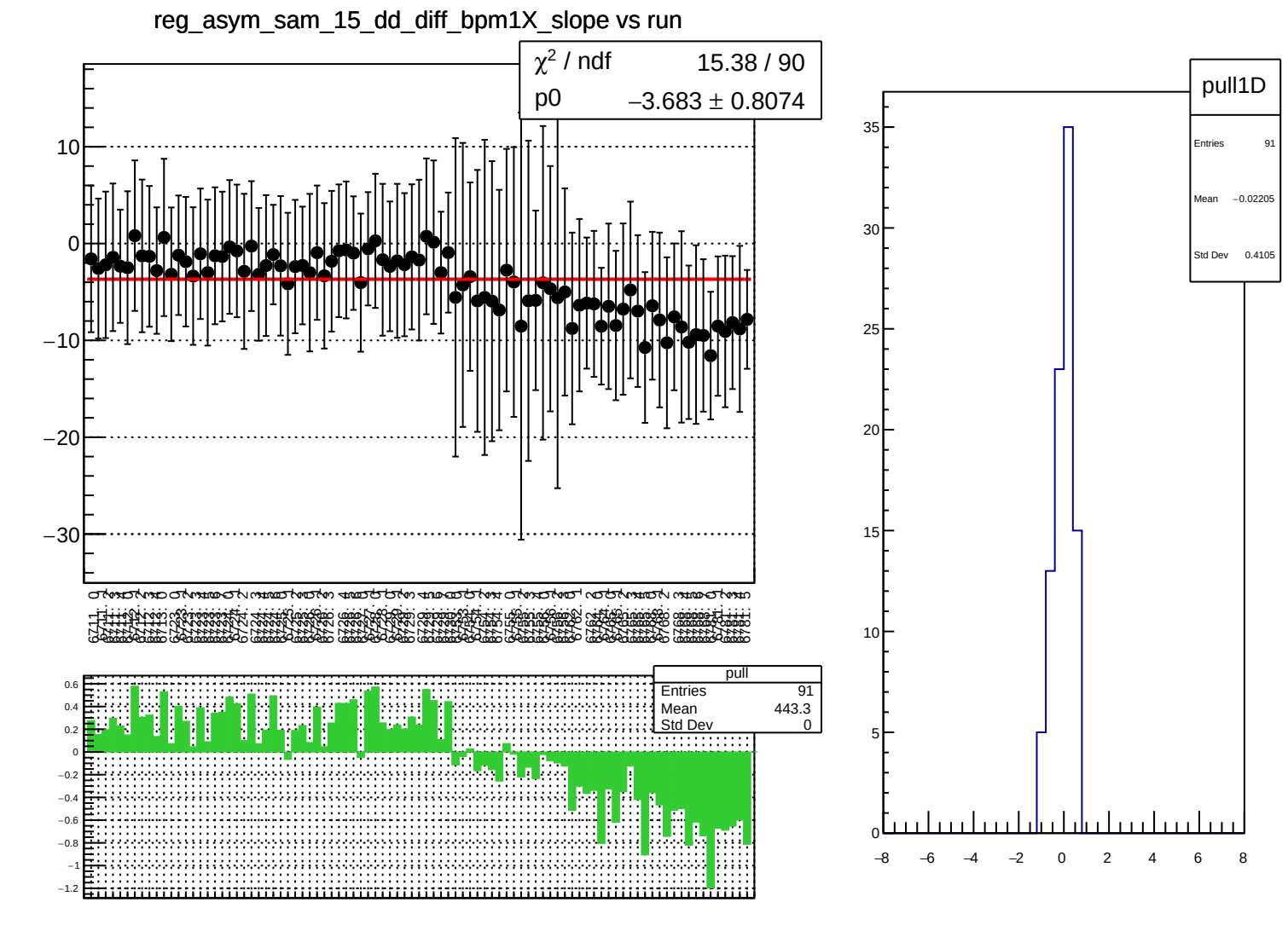

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.06 / 90
p0 −5.284 ± 0.336
pull
Entries 91
Mean 31.28
Std Dev 13.98

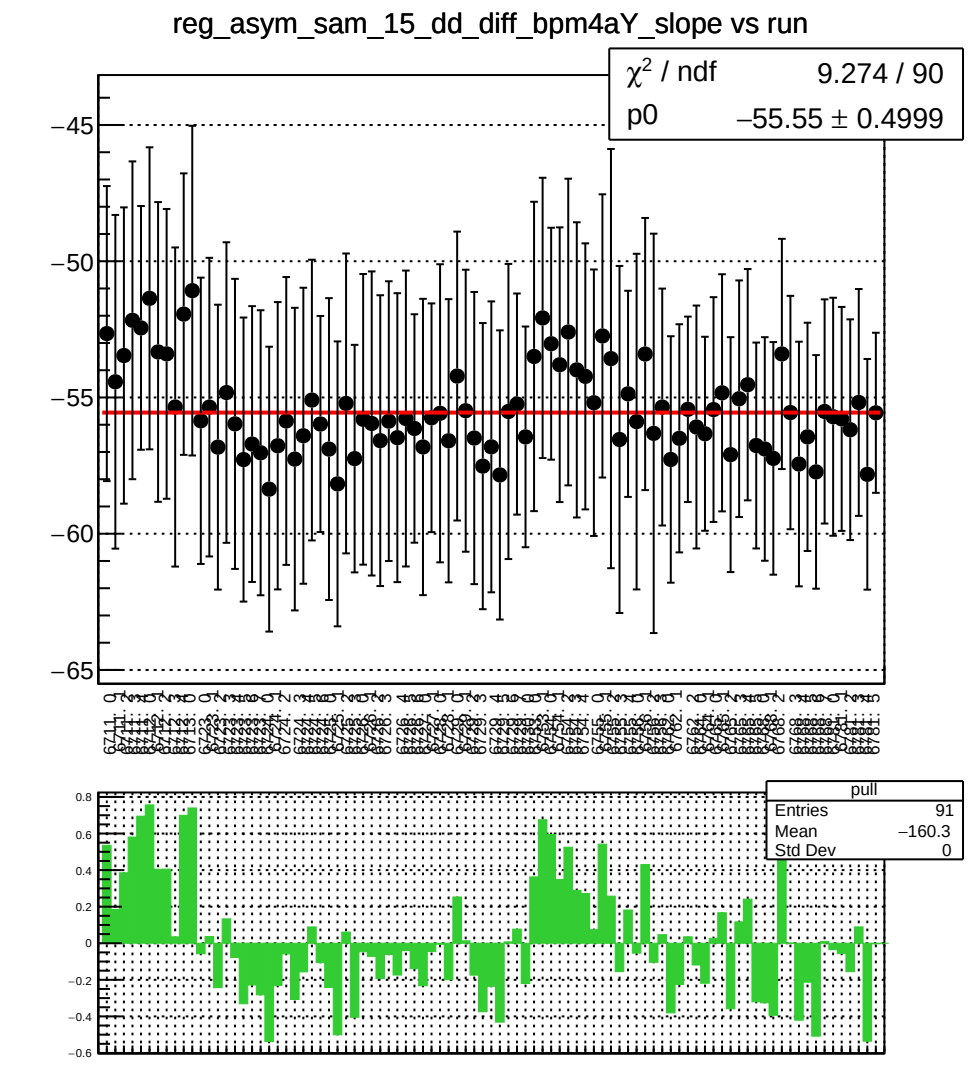

pull1D
Entries 91
Mean −0.04234
Std Dev 0.4557

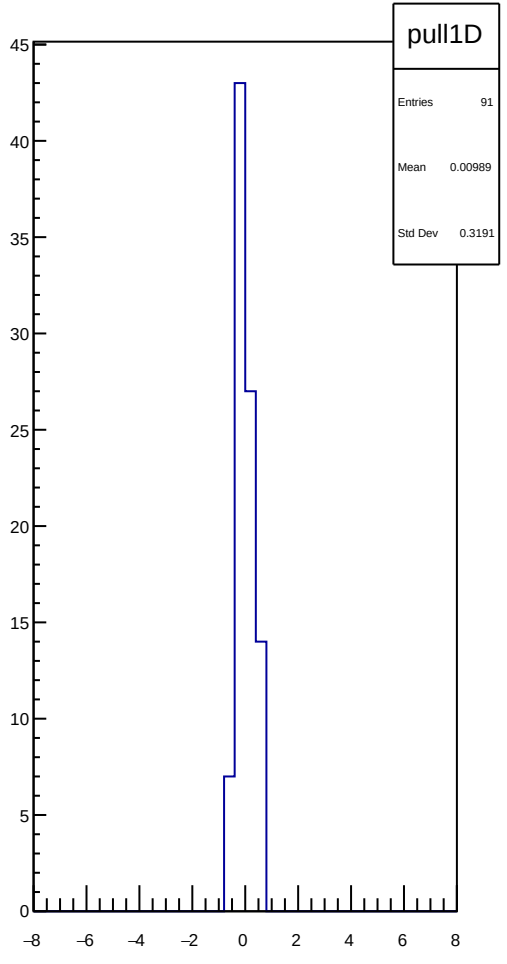

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 38.55 / 90
p0 50.26 ± 0.2626
pull
Entries 91
Mean −227.3
Std Dev 0
pull1D
Entries 91
Mean 0.02039
Std Dev 0.6506

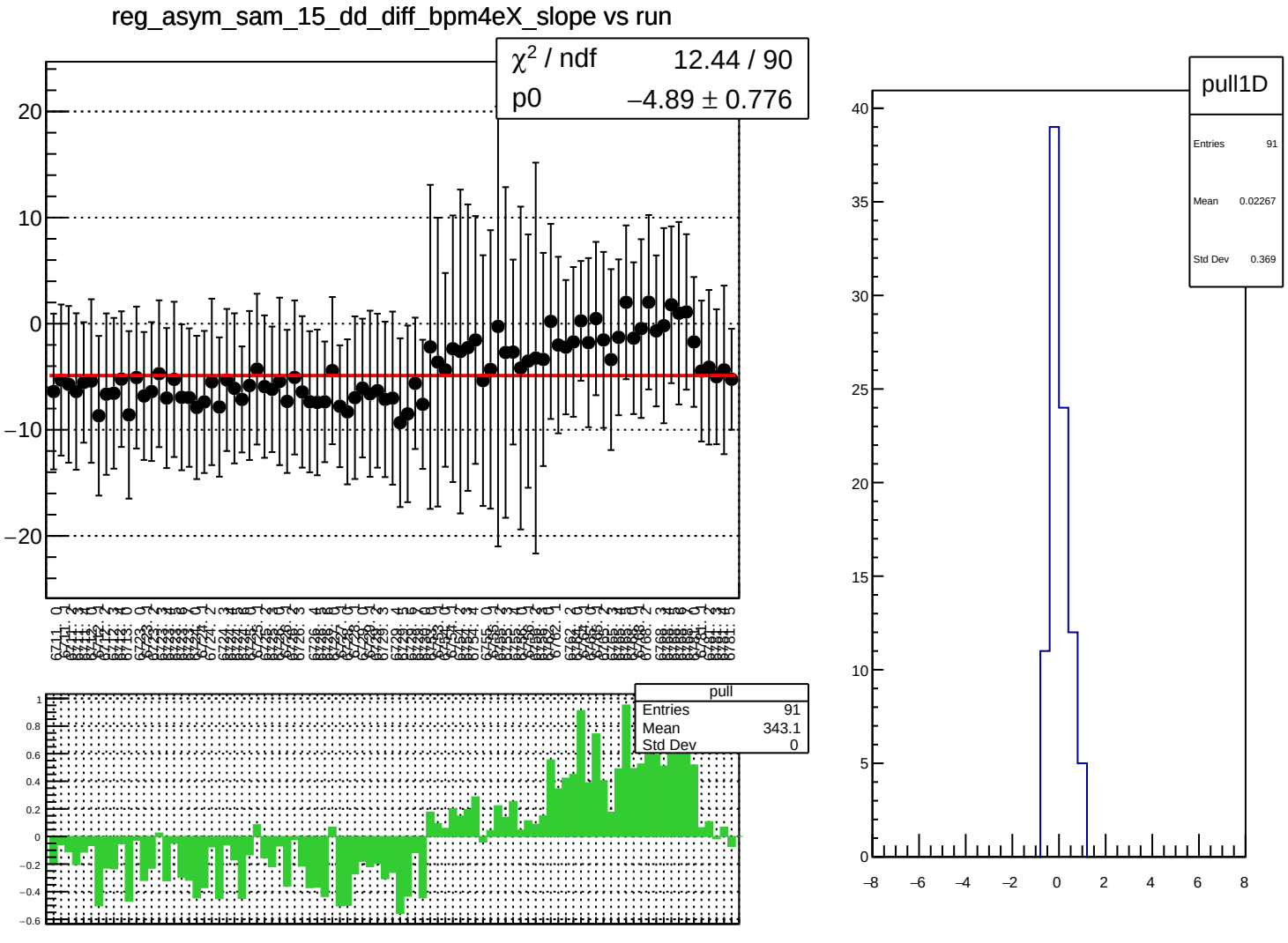

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 31.15 / 90
p0 0.09283 ± 0.01461
pull
Entries 91
Mean −299.4
Std Dev 0

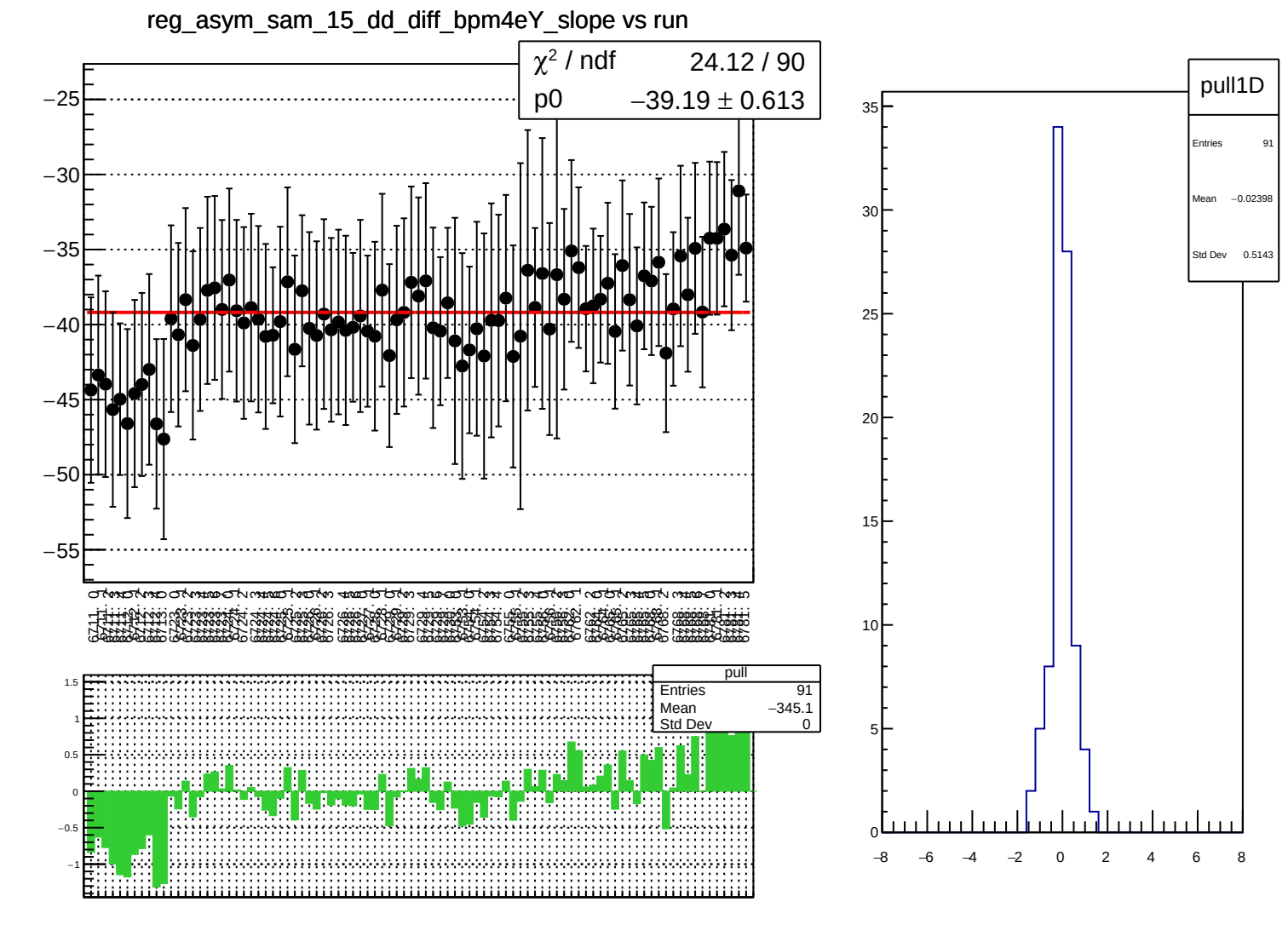

pull1D
Entries 91
Mean −0.01577
Std Dev 0.5849

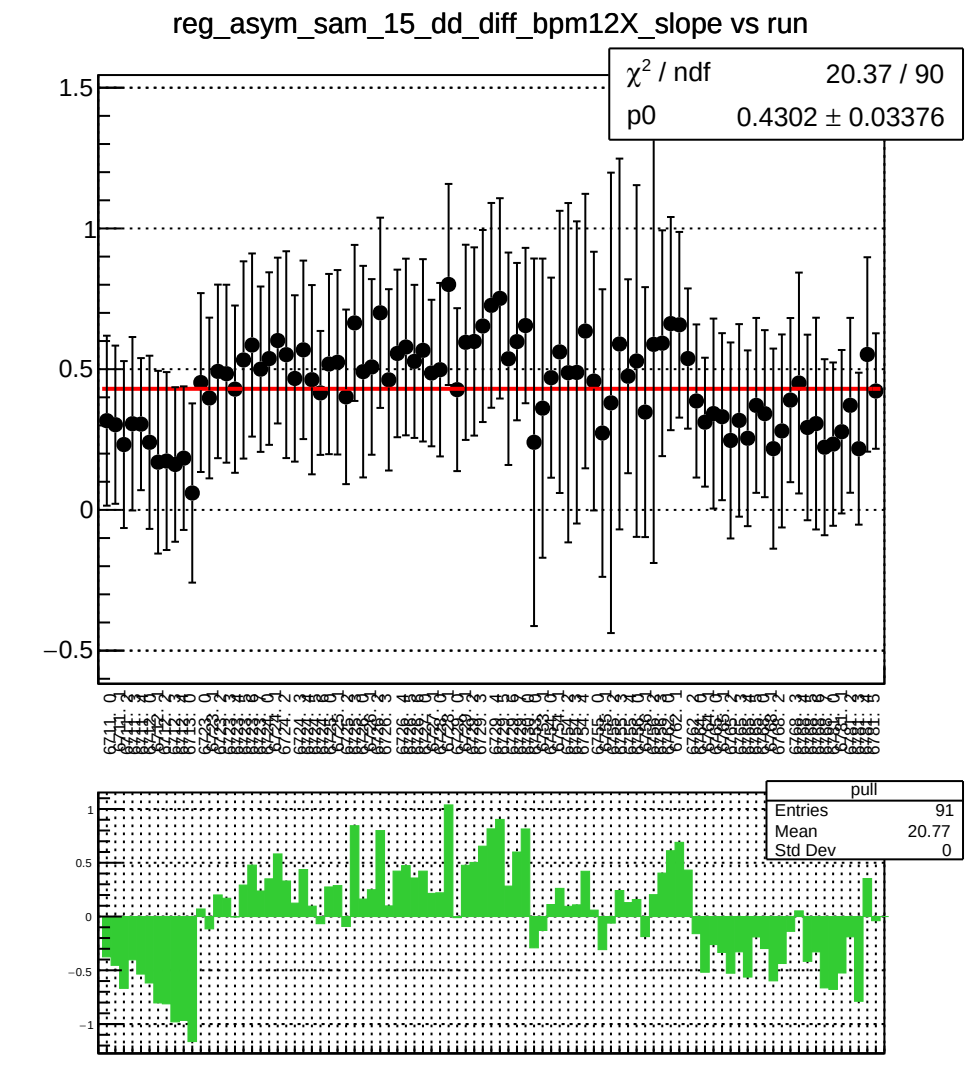

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 15.38 / 90
p0 −3.683 ± 0.8074
pull
Entries 91
Mean 443.3
Std Dev 0
pull1D
Entries 91
Mean −0.02205
Std Dev 0.4105

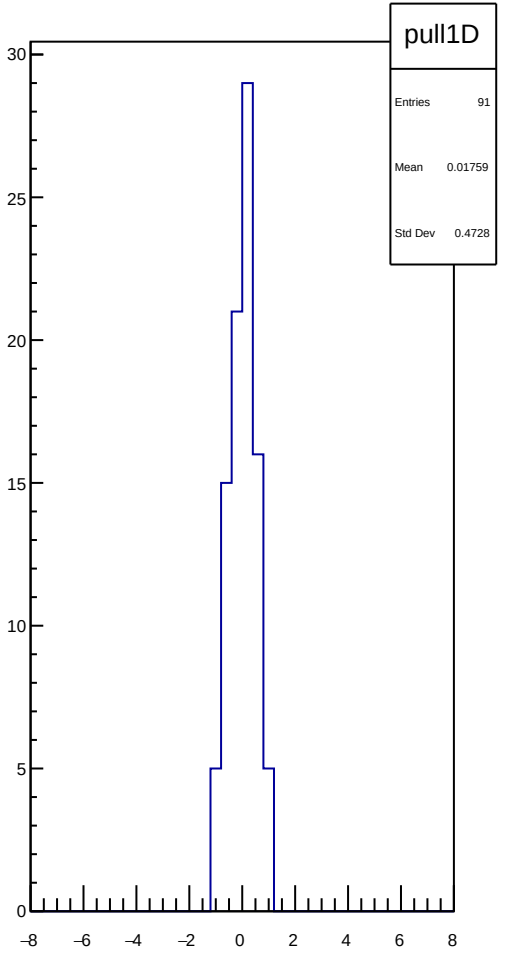

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.274 / 90
p0 −55.55 ± 0.4999
−45
−50
−55
−60
−65
pull
Entries 91
Mean −160.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

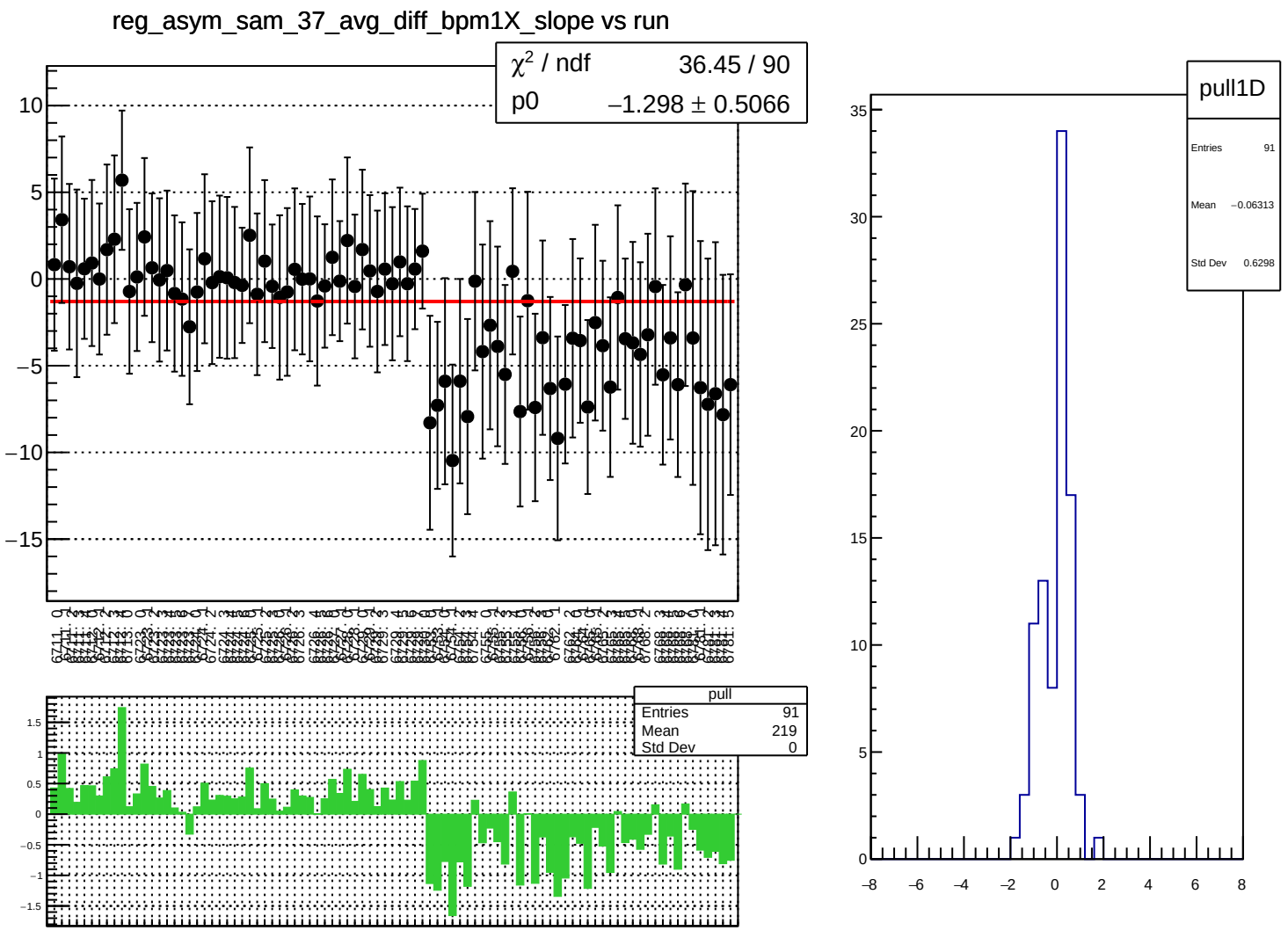

pull1D
Entries 91
Mean 0.00989
Std Dev 0.3191
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

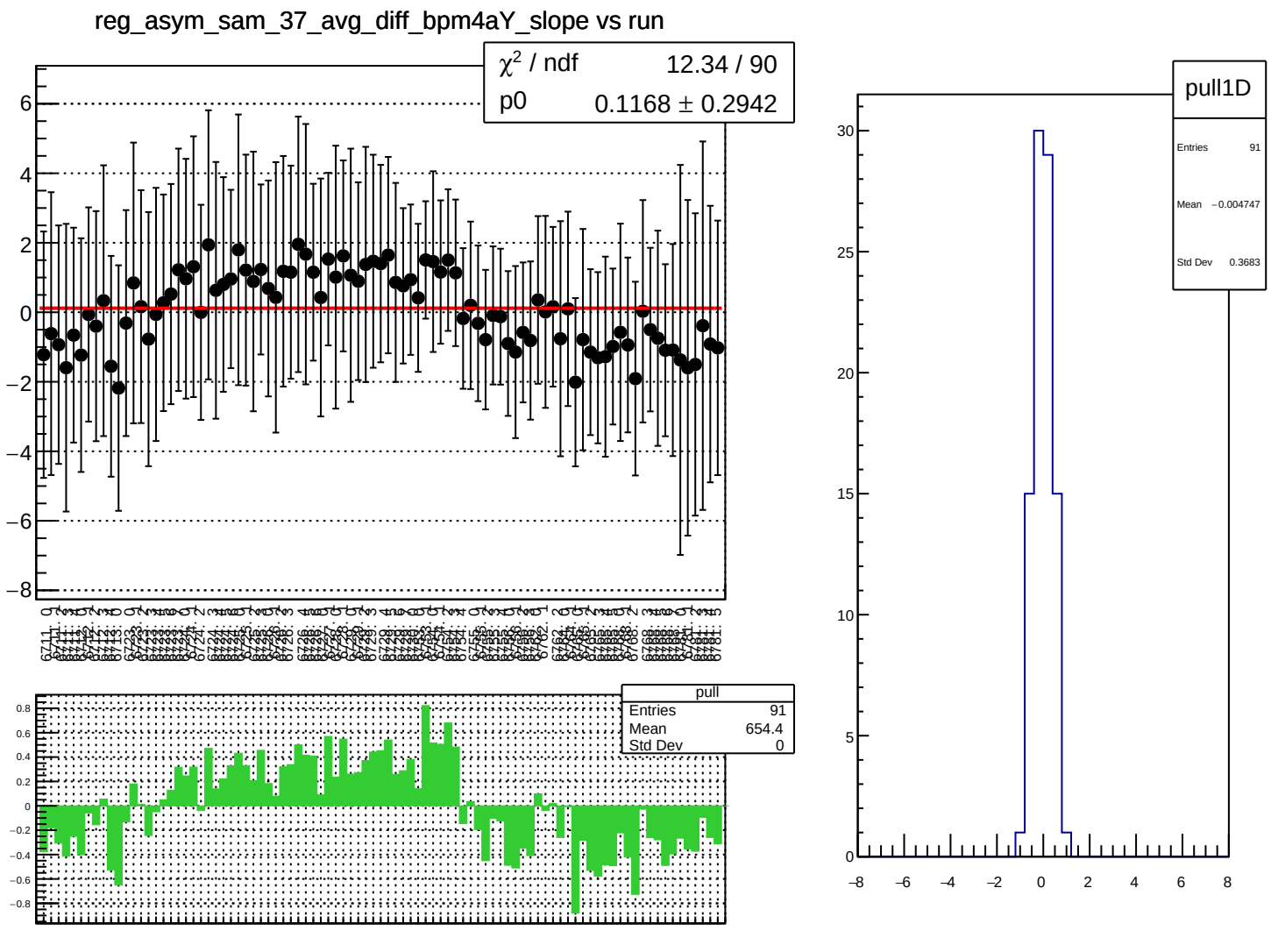

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.44 / 90
p0 −4.89 ± 0.776
pull
Entries 91
Mean 343.1
Std Dev 0
pull1D
Entries 91
Mean 0.02267
Std Dev 0.369

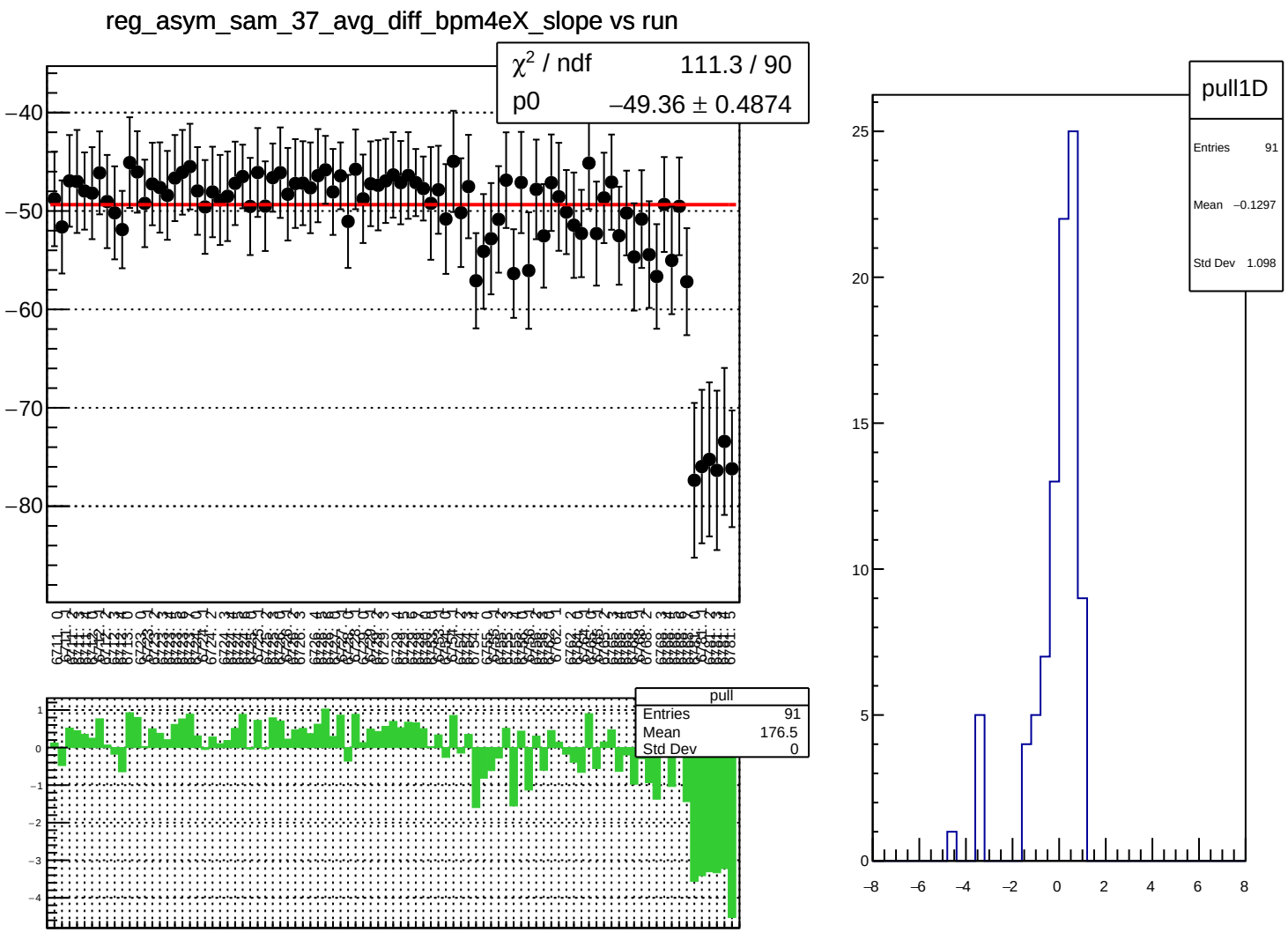

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.12 / 90
p0 −39.19 ± 0.613
pull
Entries 91
Mean −345.1
Std Dev 0
pull1D
Entries 91
Mean −0.02398
Std Dev 0.5143

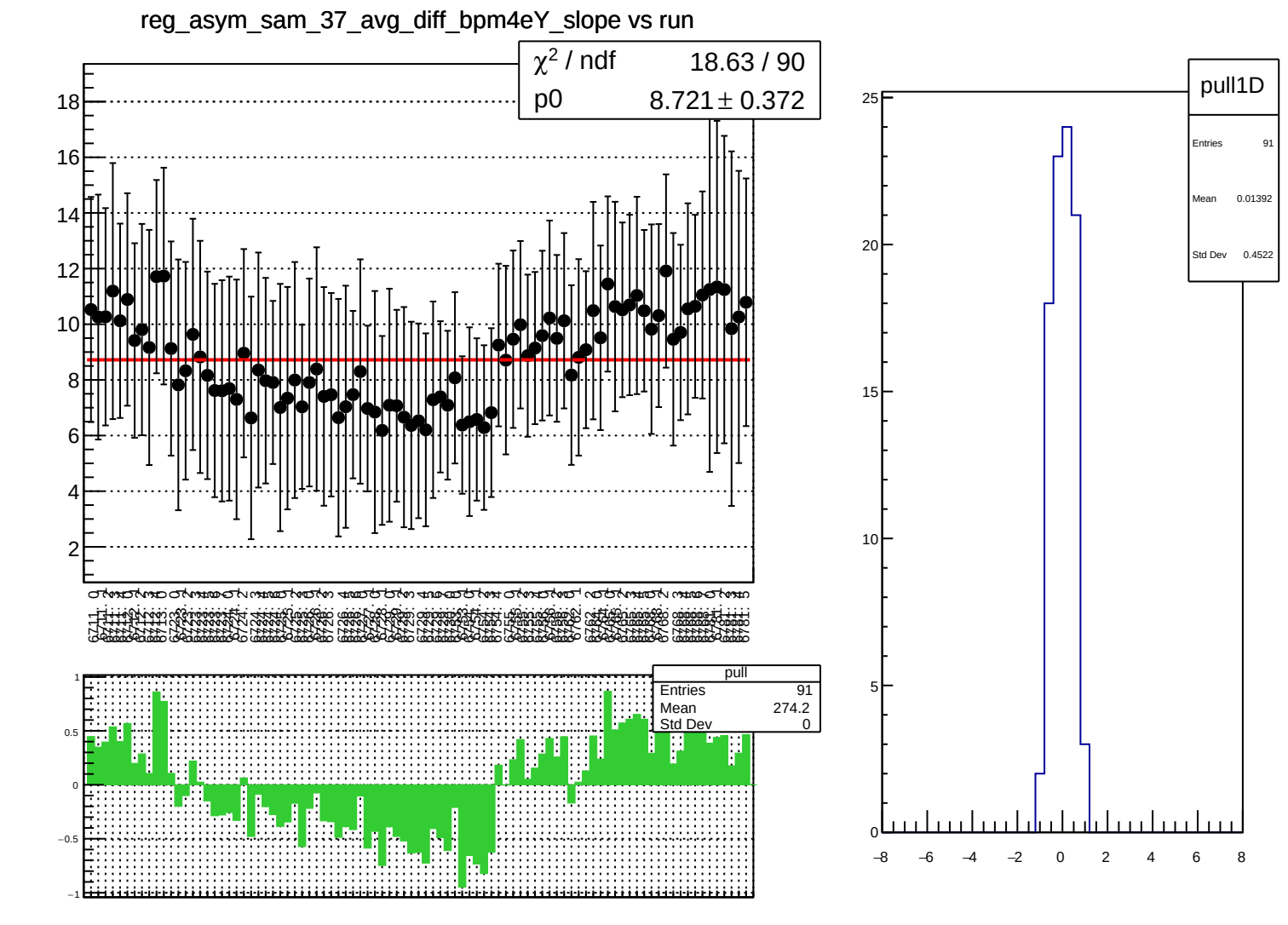

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 20.37 / 90
p0 0.4302 ± 0.03376
1.5
1
0.5
0
−0.5
pull
Entries 91
Mean 20.77
Std Dev 0

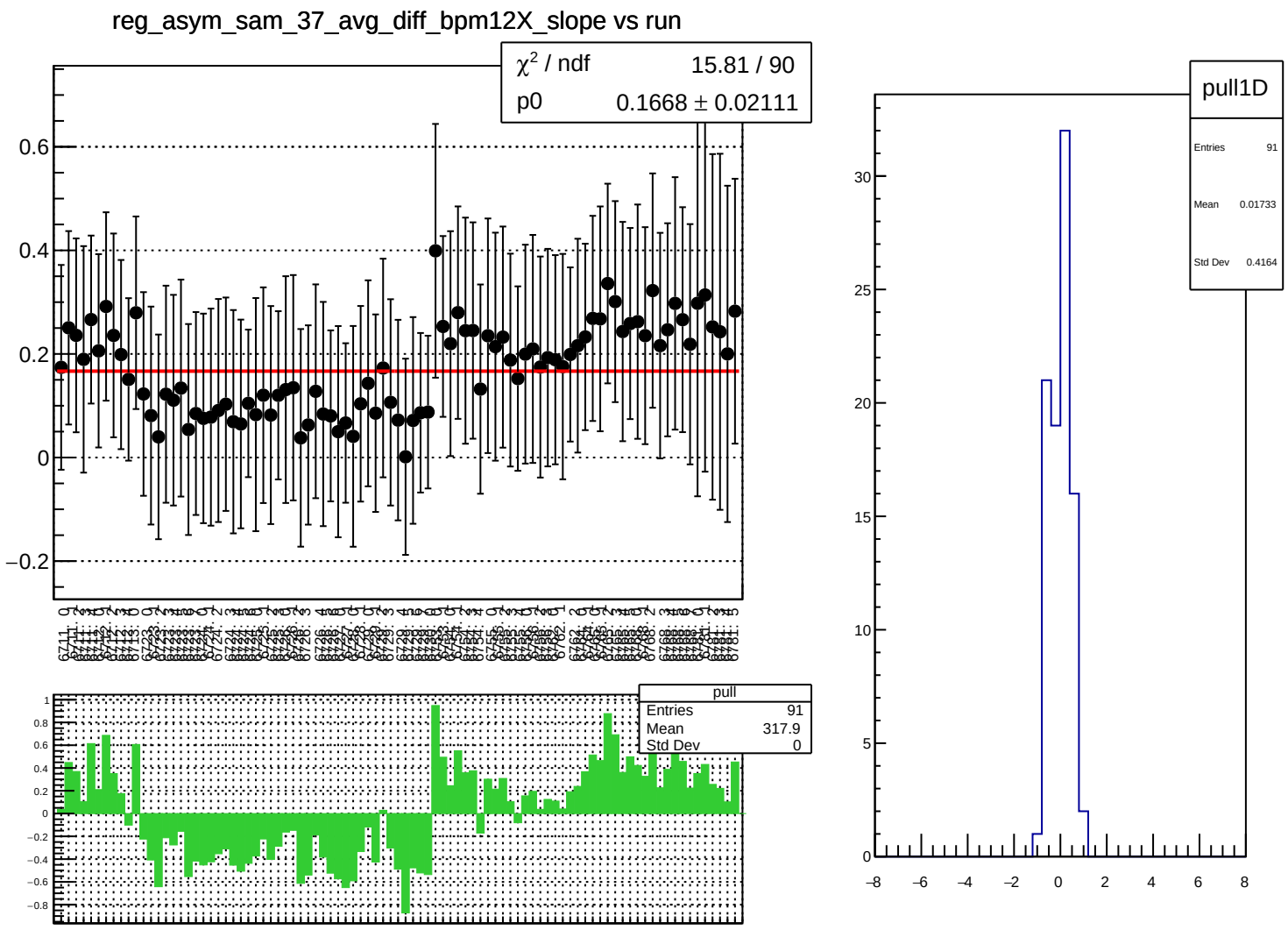

pull1D
Entries 91
Mean 0.01759
Std Dev 0.4728
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

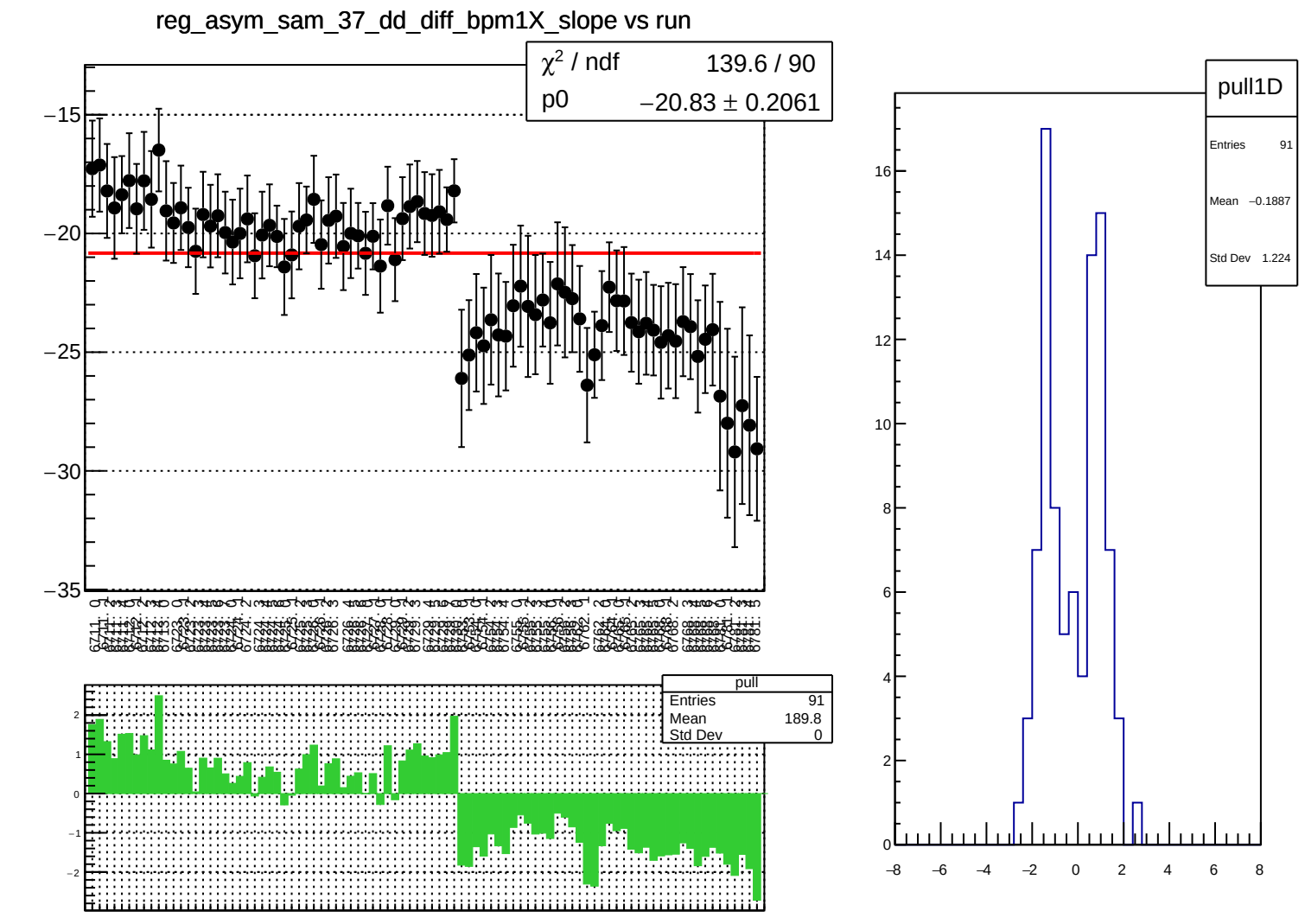

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 36.45 / 90
p0 −1.298 ± 0.5066
pull
Entries 91
Mean 219
Std Dev 0
pull1D
Entries 91
Mean −0.06313
Std Dev 0.6298

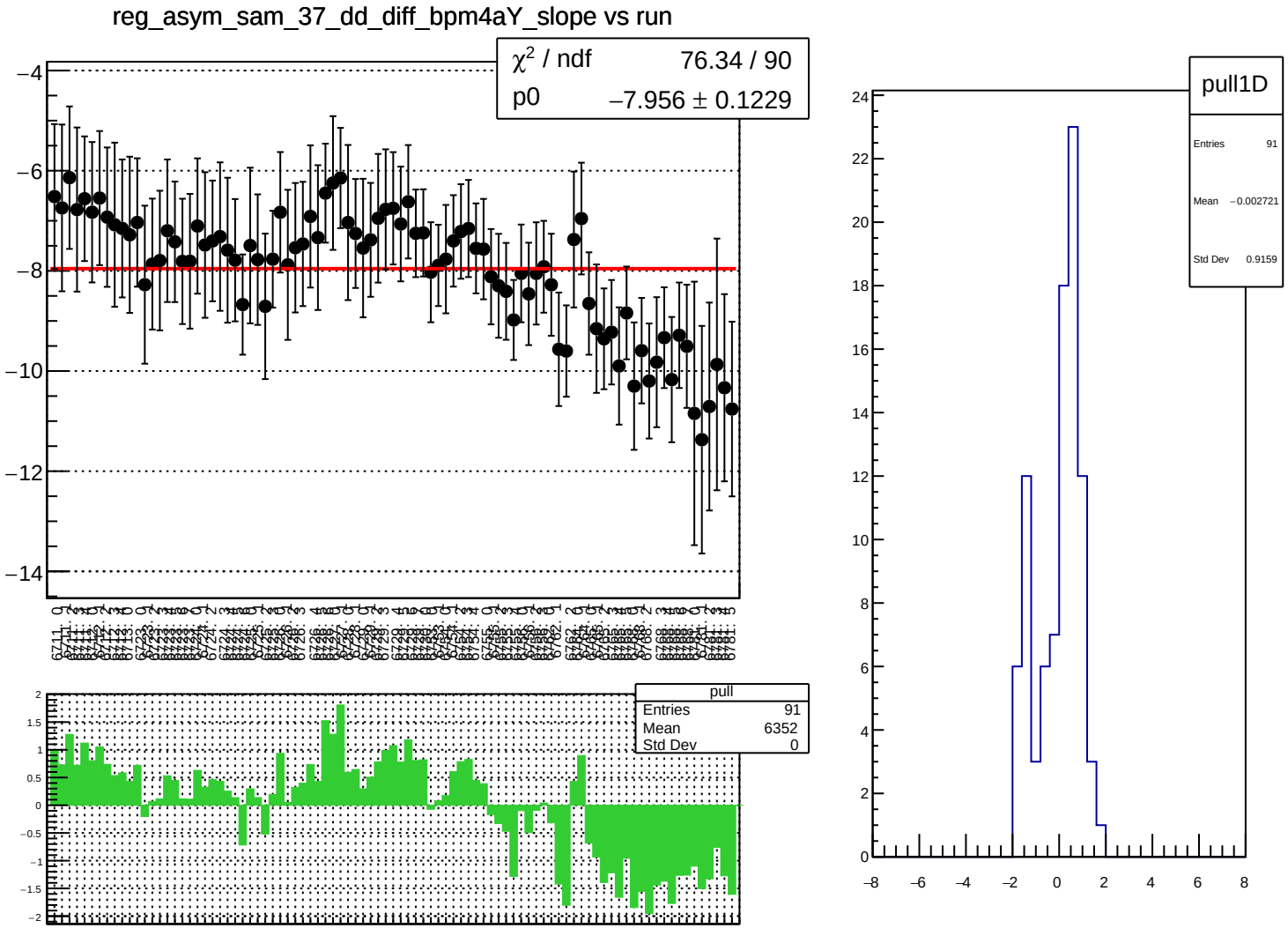

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.34 / 90
p0 0.1168 ± 0.2942
pull
Entries 91
Mean 654.4
Std Dev 0
pull1D
Entries 91
Mean −0.004747
Std Dev 0.3683

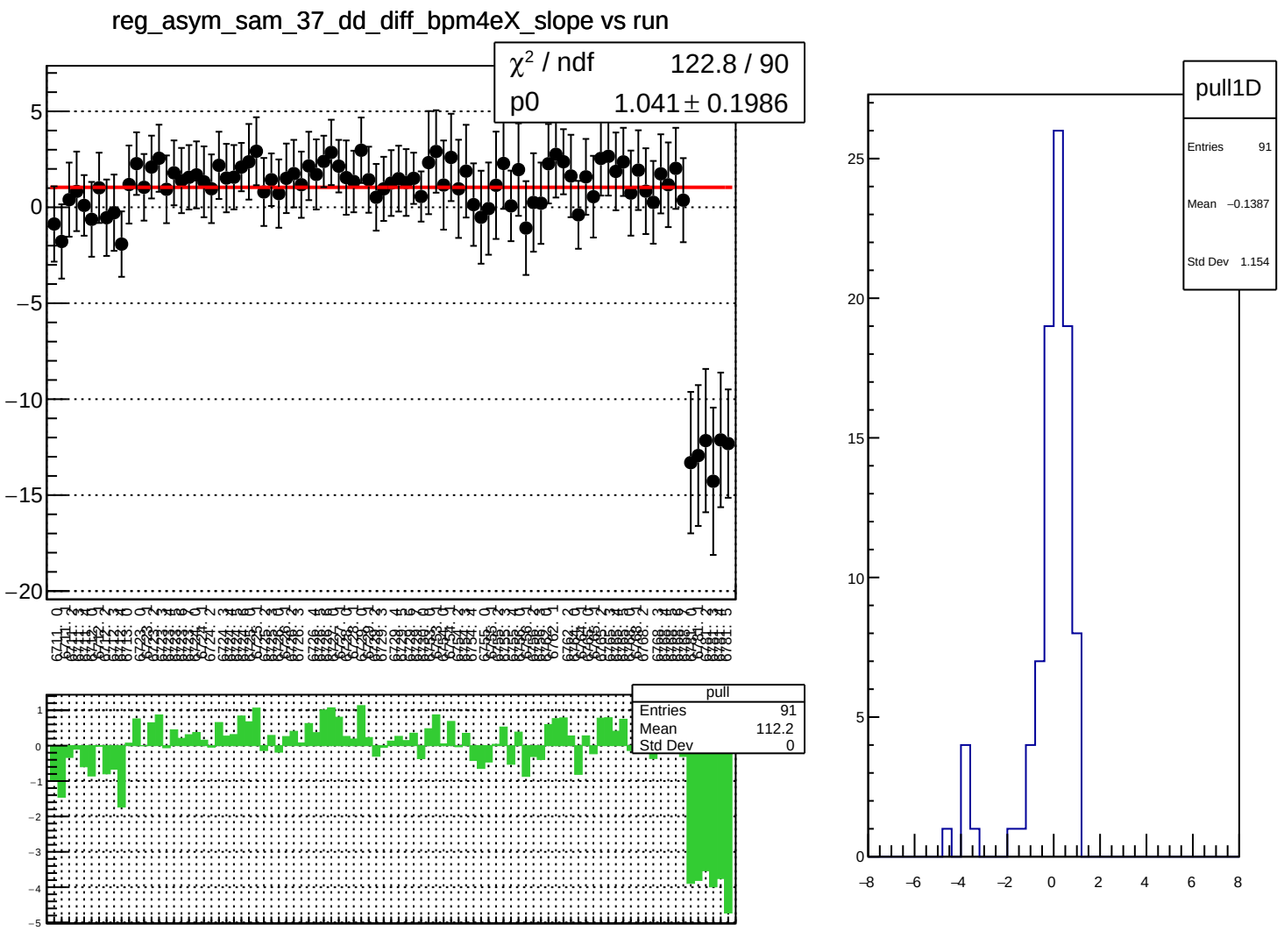

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 111.3 / 90
p0 −49.36 ± 0.4874
−40
−50
−60
−70
−80
pull
Entries 91
Mean 176.5
Std Dev 0
pull1D
Entries 91
Mean −0.1297
Std Dev 1.098
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

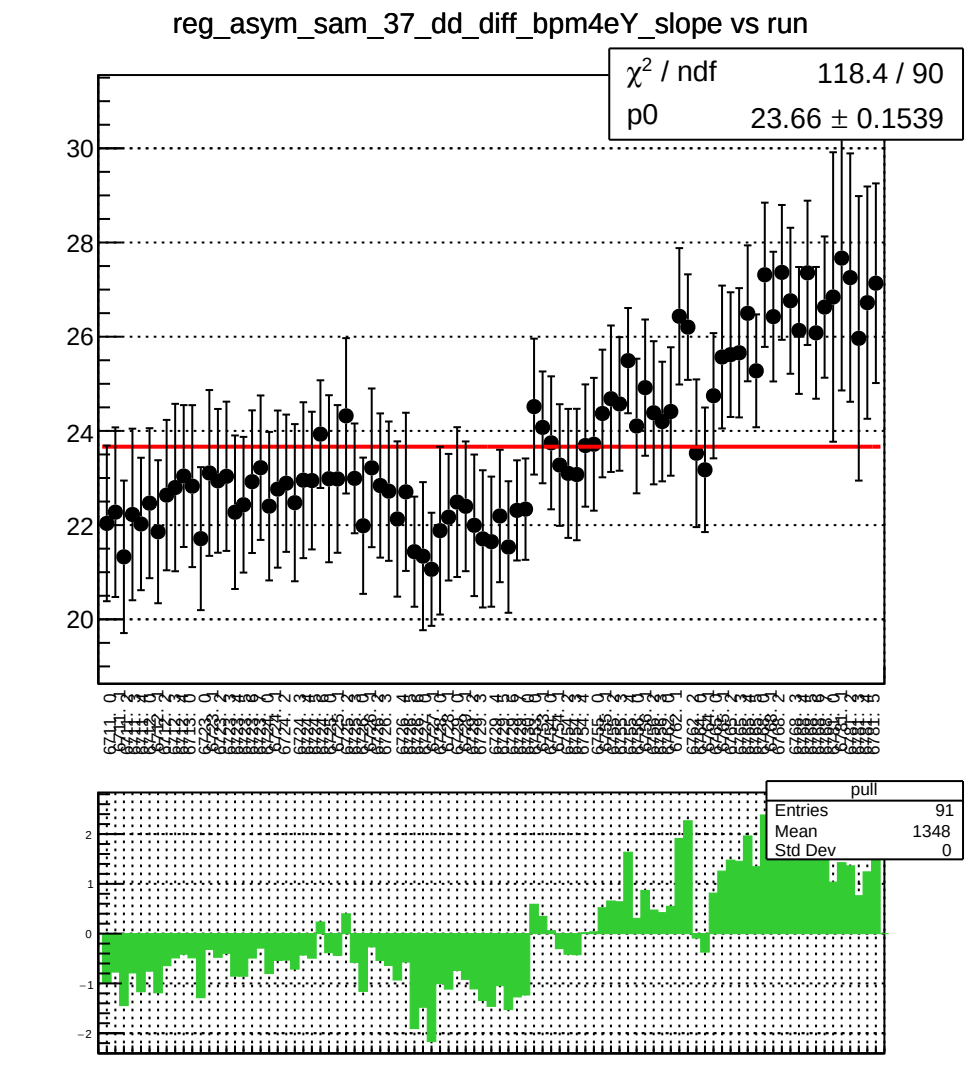

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.63 / 90
p0 8.721 ± 0.372
pull
Entries 91
Mean 274.2
Std Dev 0
pull1D
Entries 91
Mean 0.01392
Std Dev 0.4522

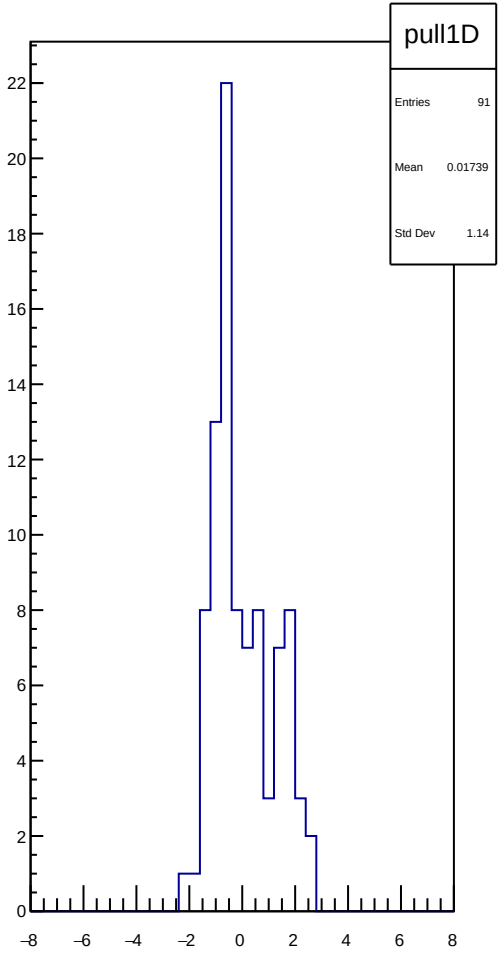

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 15.81 / 90
p0 0.1668 ± 0.02111
pull
Entries 91
Mean 317.9
Std Dev 0
pull1D
Entries 91
Mean 0.01733
Std Dev 0.4164

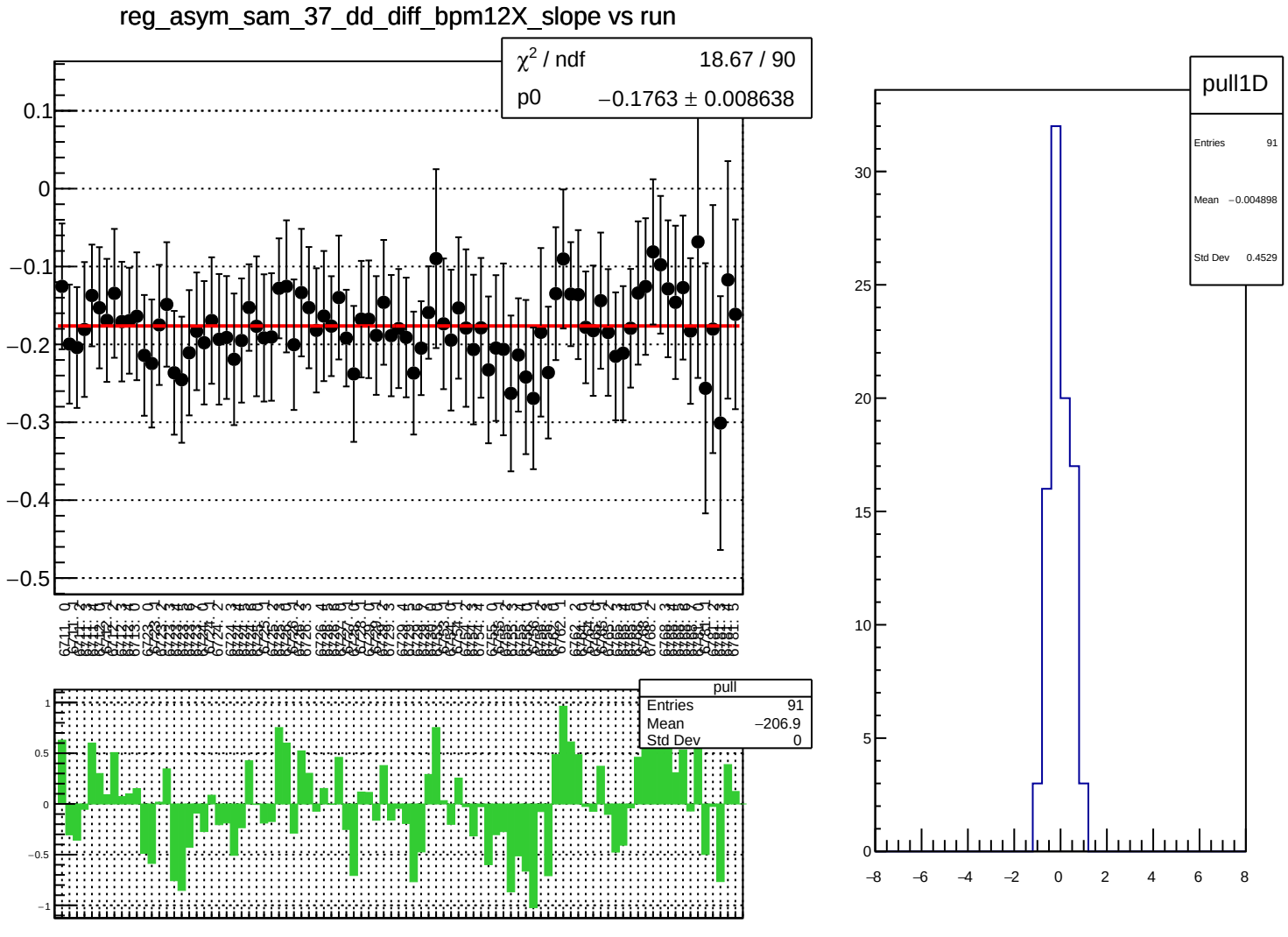

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 139.6 / 90
p0 −20.83 ± 0.2061
pull
Entries 91
Mean 189.8
Std Dev 0
pull1D
Entries 91
Mean −0.1887
Std Dev 1.224

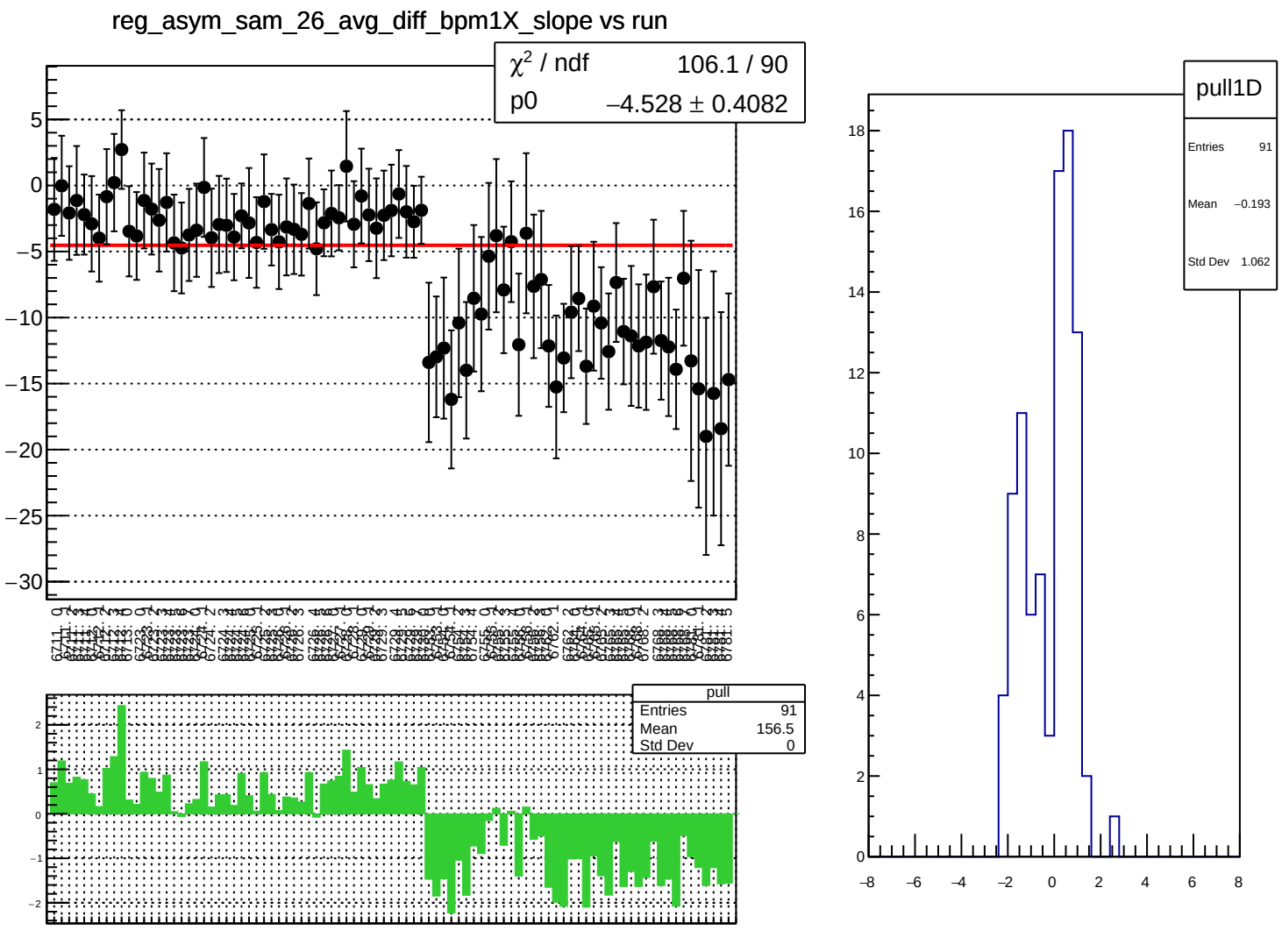

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 76.34 / 90
p0 −7.956 ± 0.1229
pull
Entries 91
Mean 6352
Std Dev 0
pull1D
Entries 91
Mean −0.002721
Std Dev 0.9159

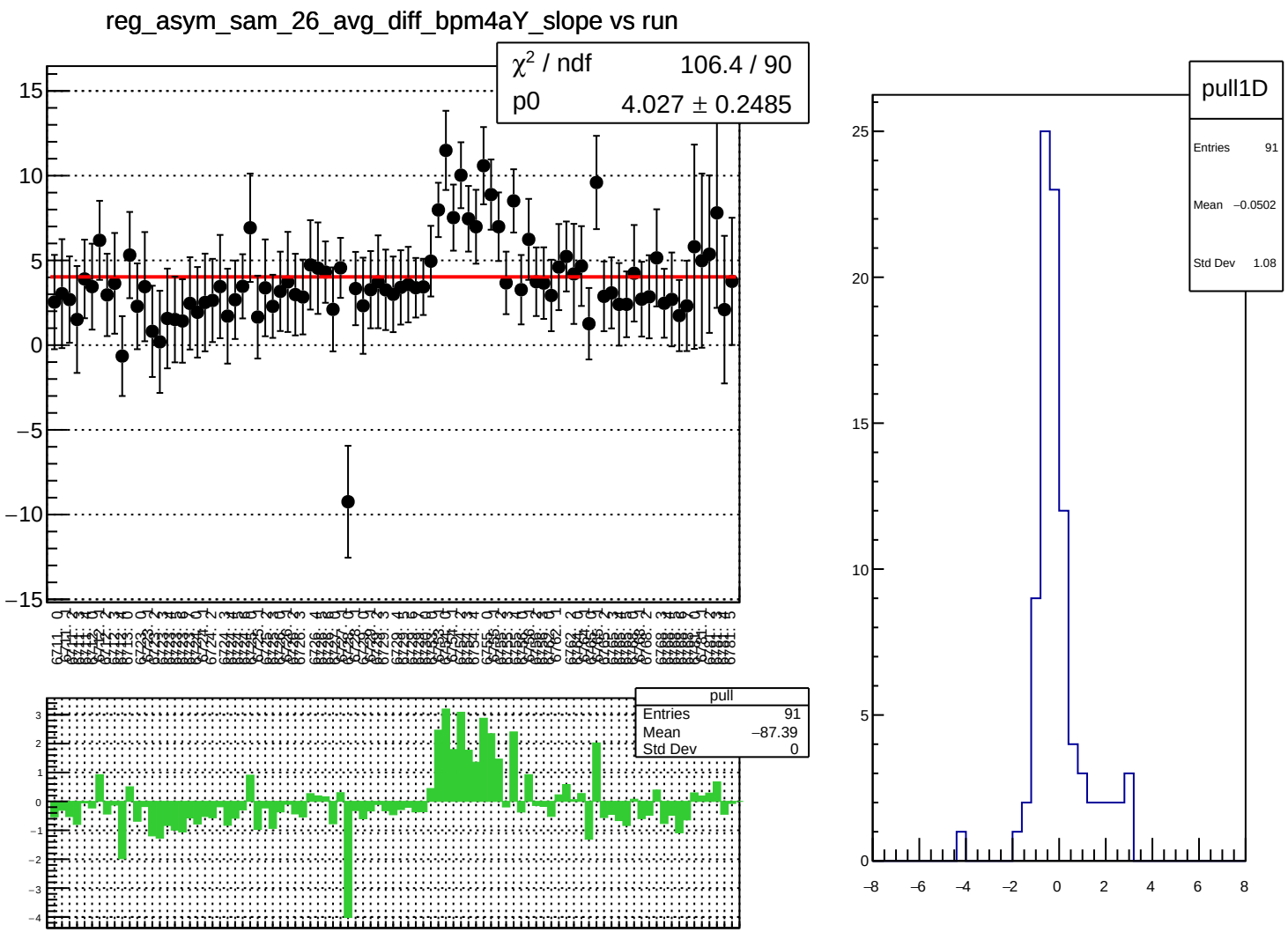

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 122.8 / 90
p0 1.041 ± 0.1986
pull
Entries 91
Mean 112.2
Std Dev 0
pull1D
Entries 91
Mean −0.1387
Std Dev 1.154

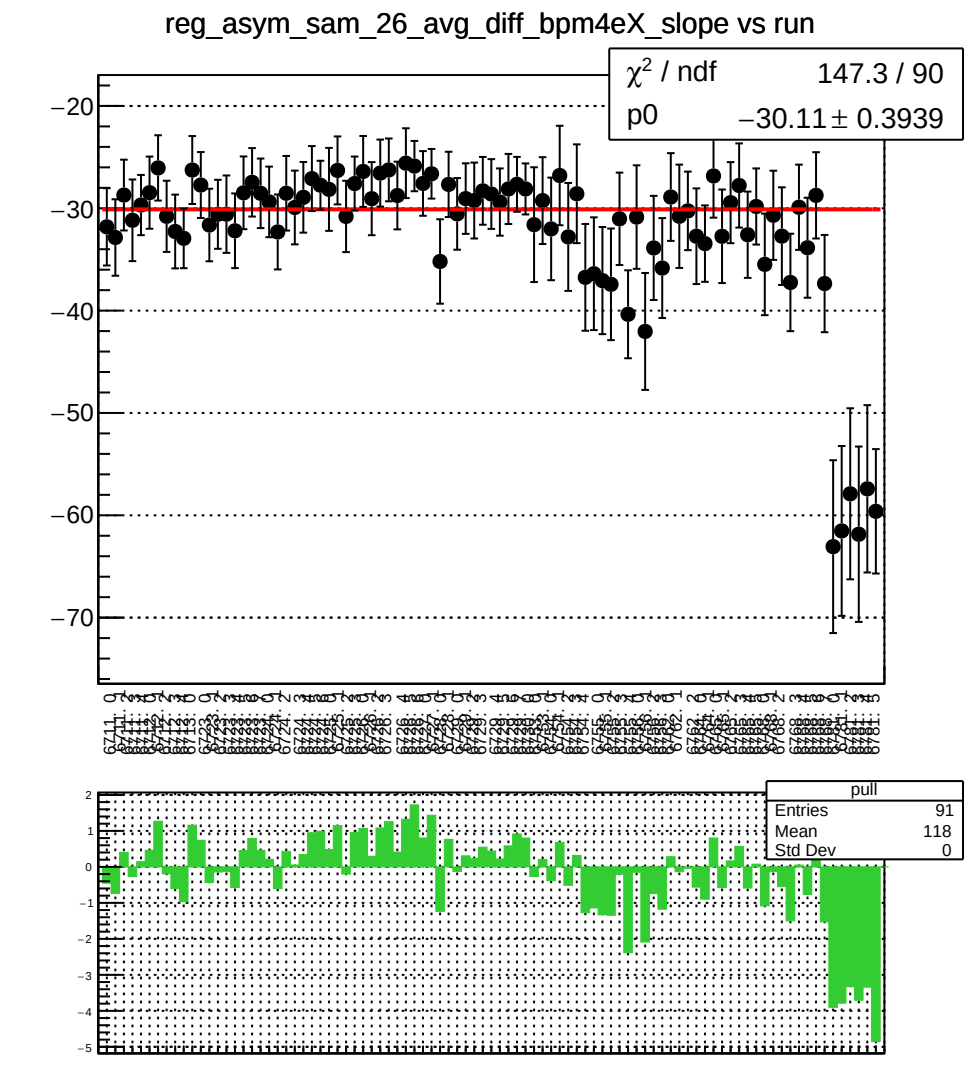

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 118.4 / 90
p0 23.66 ± 0.1539
pull
Entries 91
Mean 1348
Std Dev 0

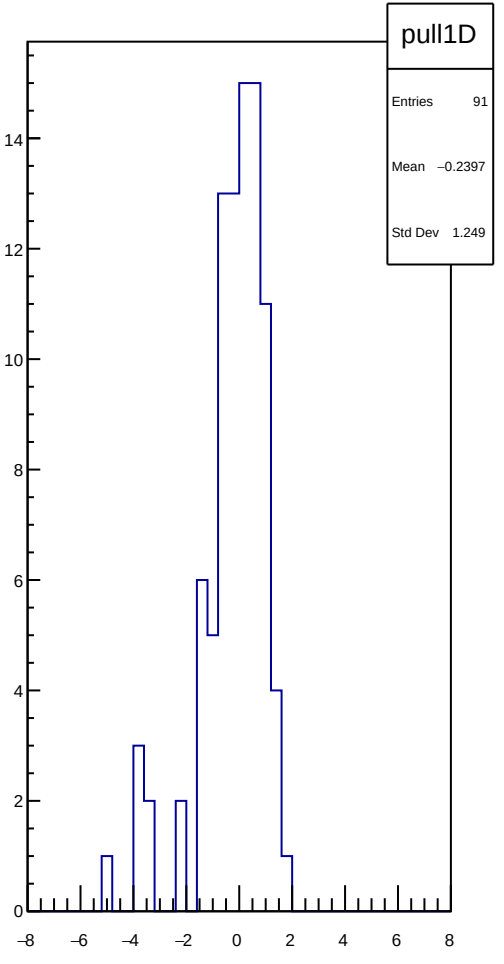

pull1D
Entries 91
Mean 0.01739
Std Dev 1.14

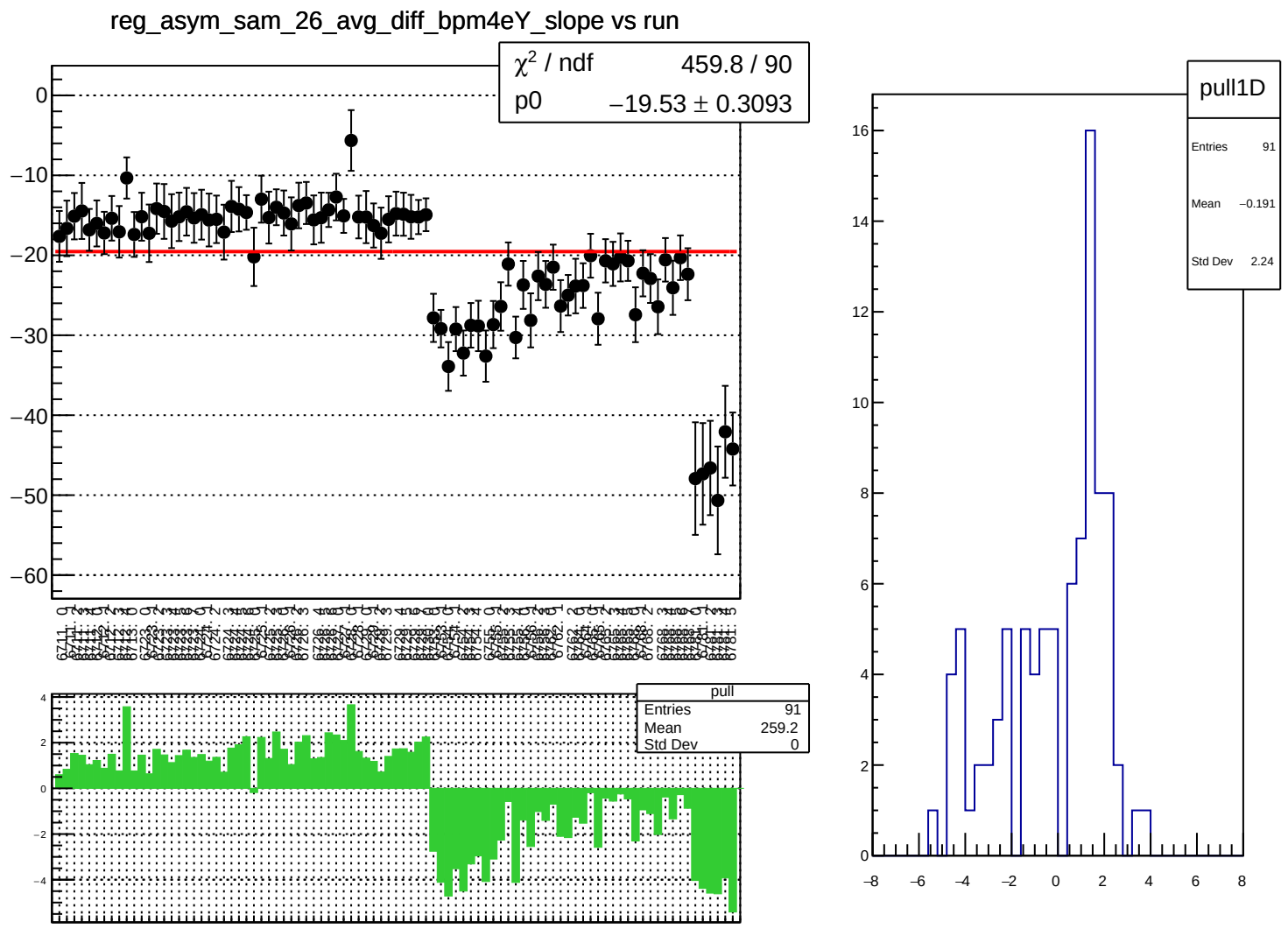

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 18.67 / 90
p0 −0.1763 ± 0.008638
pull
Entries 91
Mean −206.9
Std Dev 0
pull1D
Entries 91
Mean −0.004898
Std Dev 0.4529

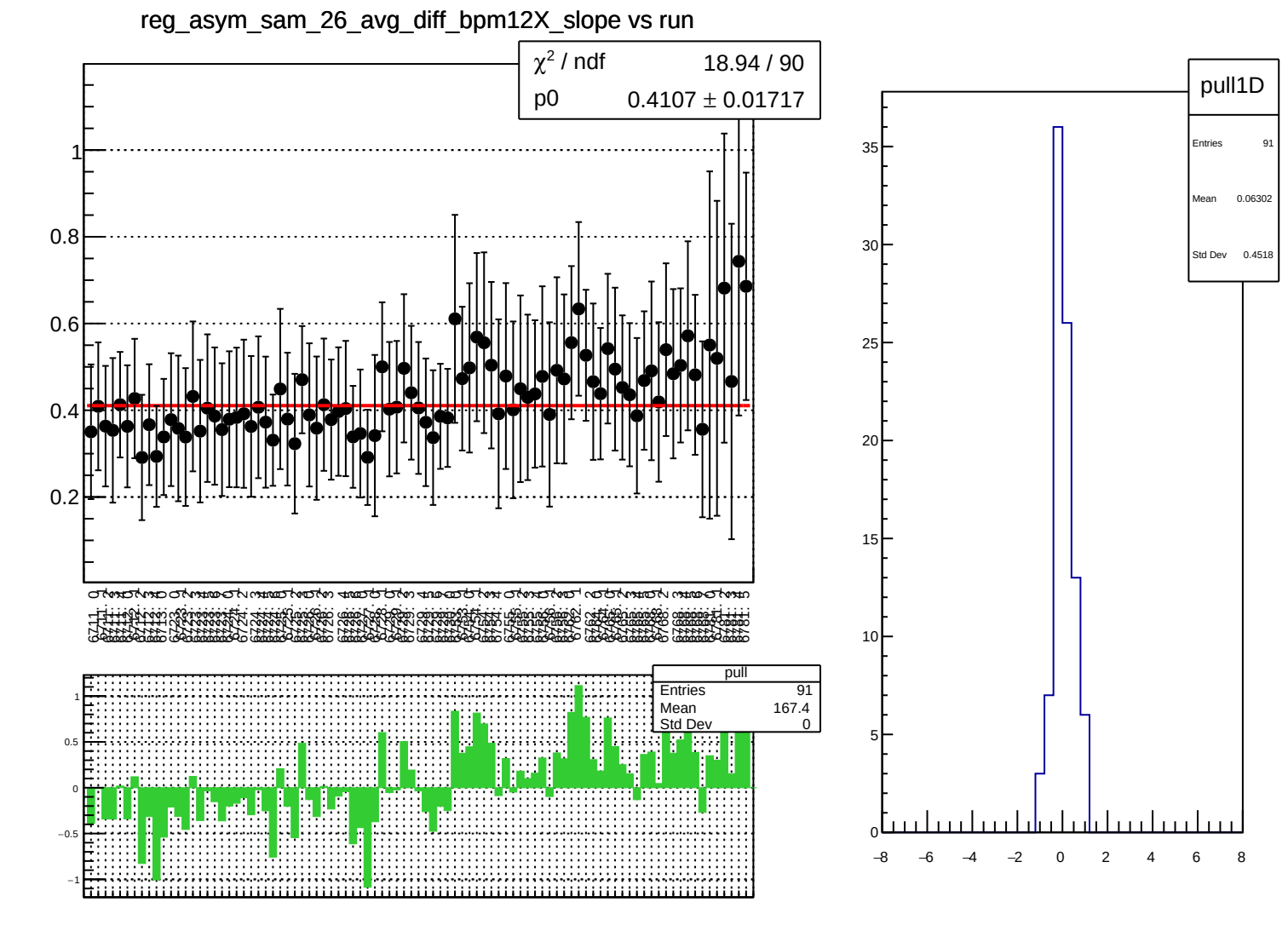

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 106.1 / 90
p0 −4.528 ± 0.4082
pull
Entries 91
Mean 156.5
Std Dev 0
pull1D
Entries 91
Mean −0.193
Std Dev 1.062

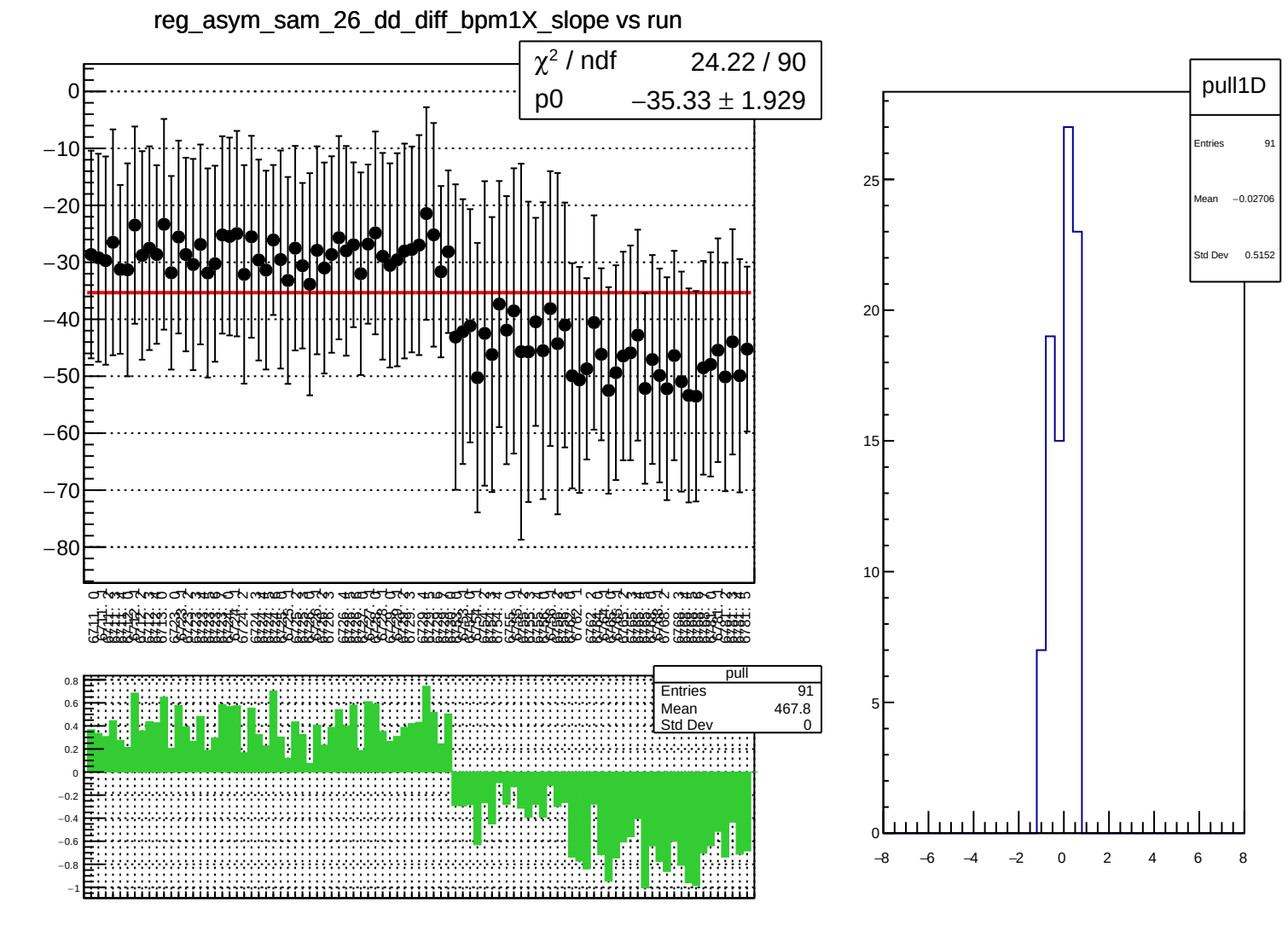

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 106.4 / 90
p0 4.027 ± 0.2485
pull
Entries 91
Mean −87.39
Std Dev 0
pull1D
Entries 91
Mean −0.0502
Std Dev 1.08

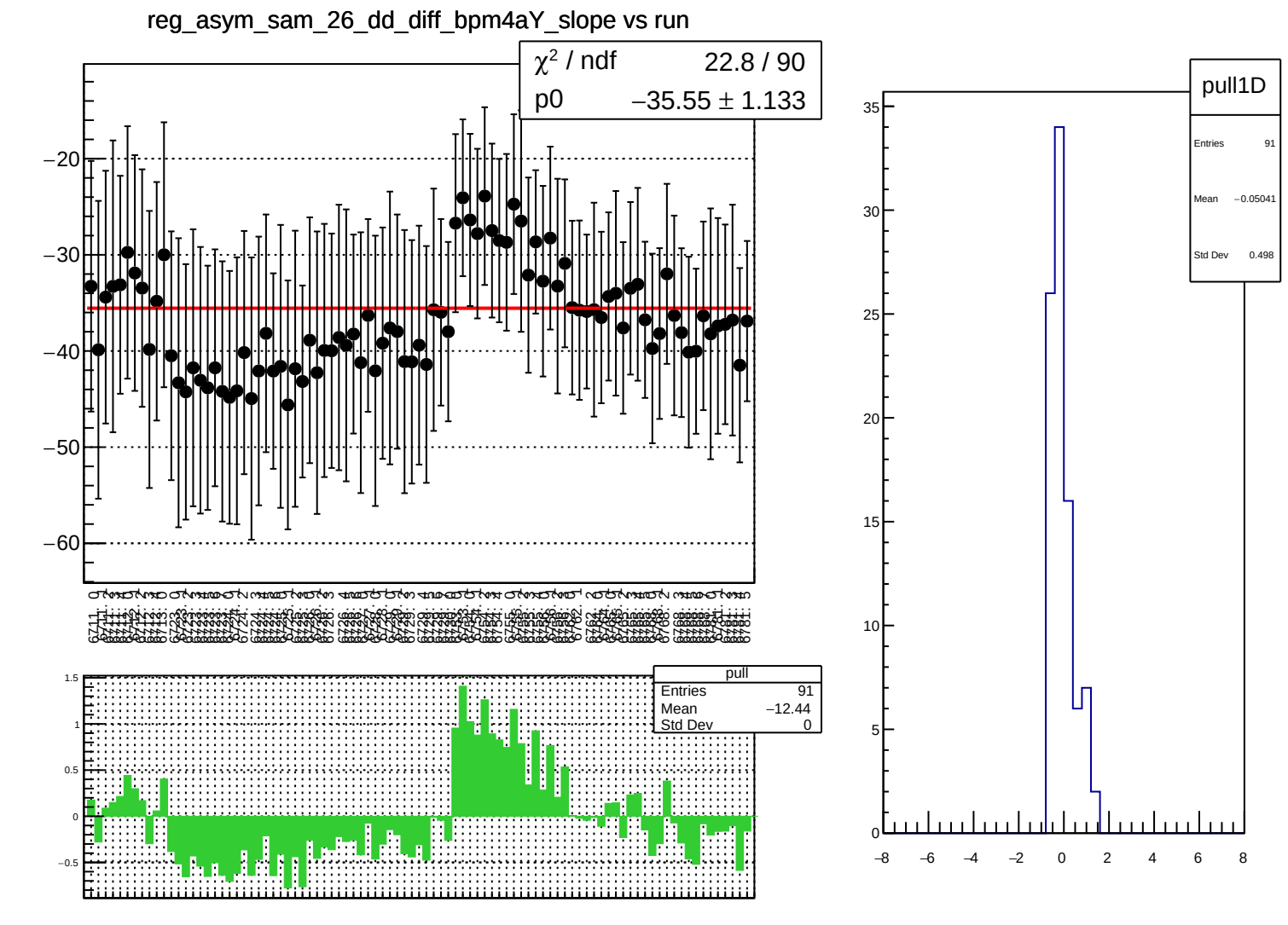

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 147.3 / 90
p0 −30.11 ± 0.3939
pull
Entries 91
Mean 118
Std Dev 0

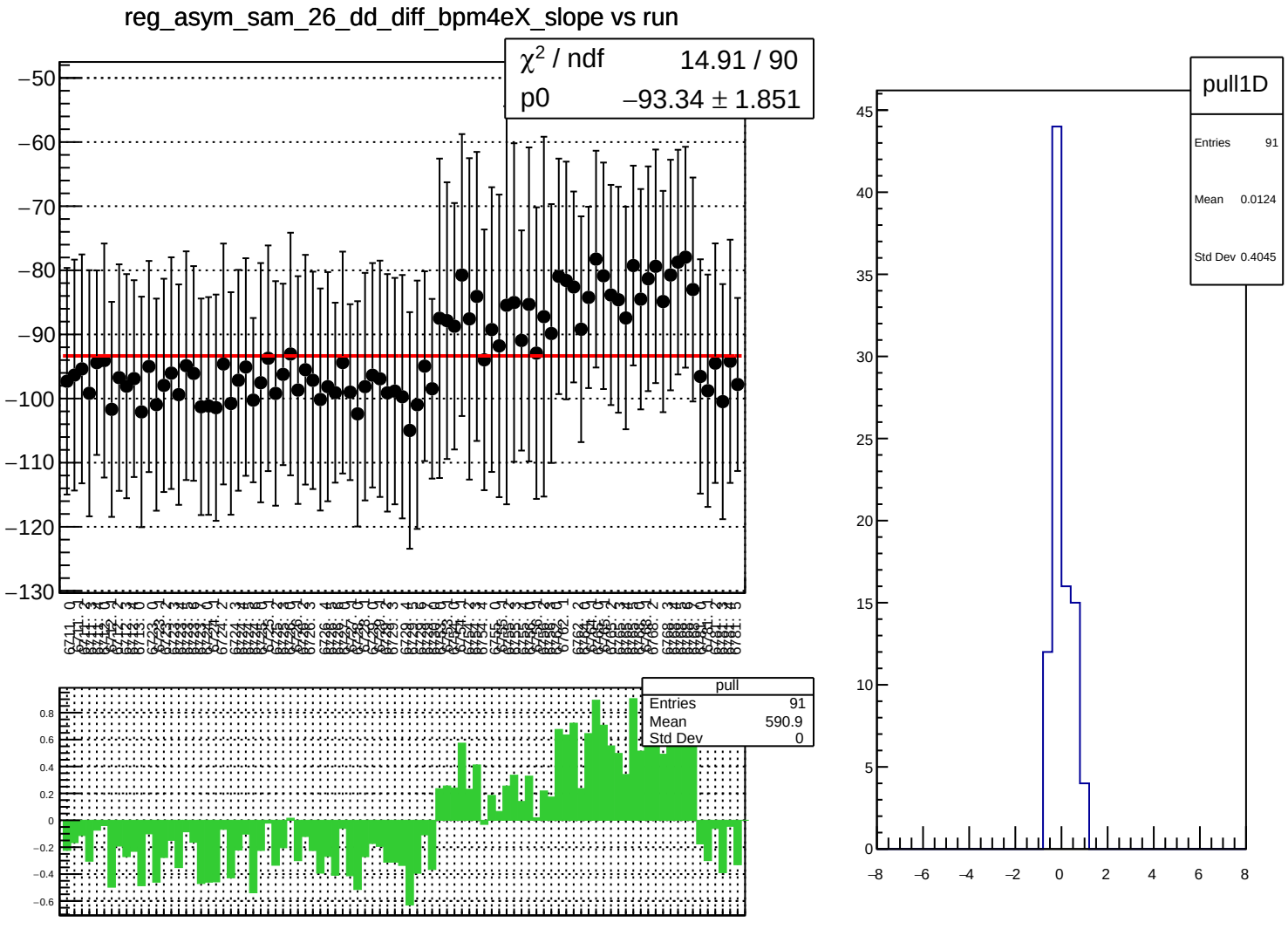

pull1D
Entries 91
Mean −0.2397
Std Dev 1.249

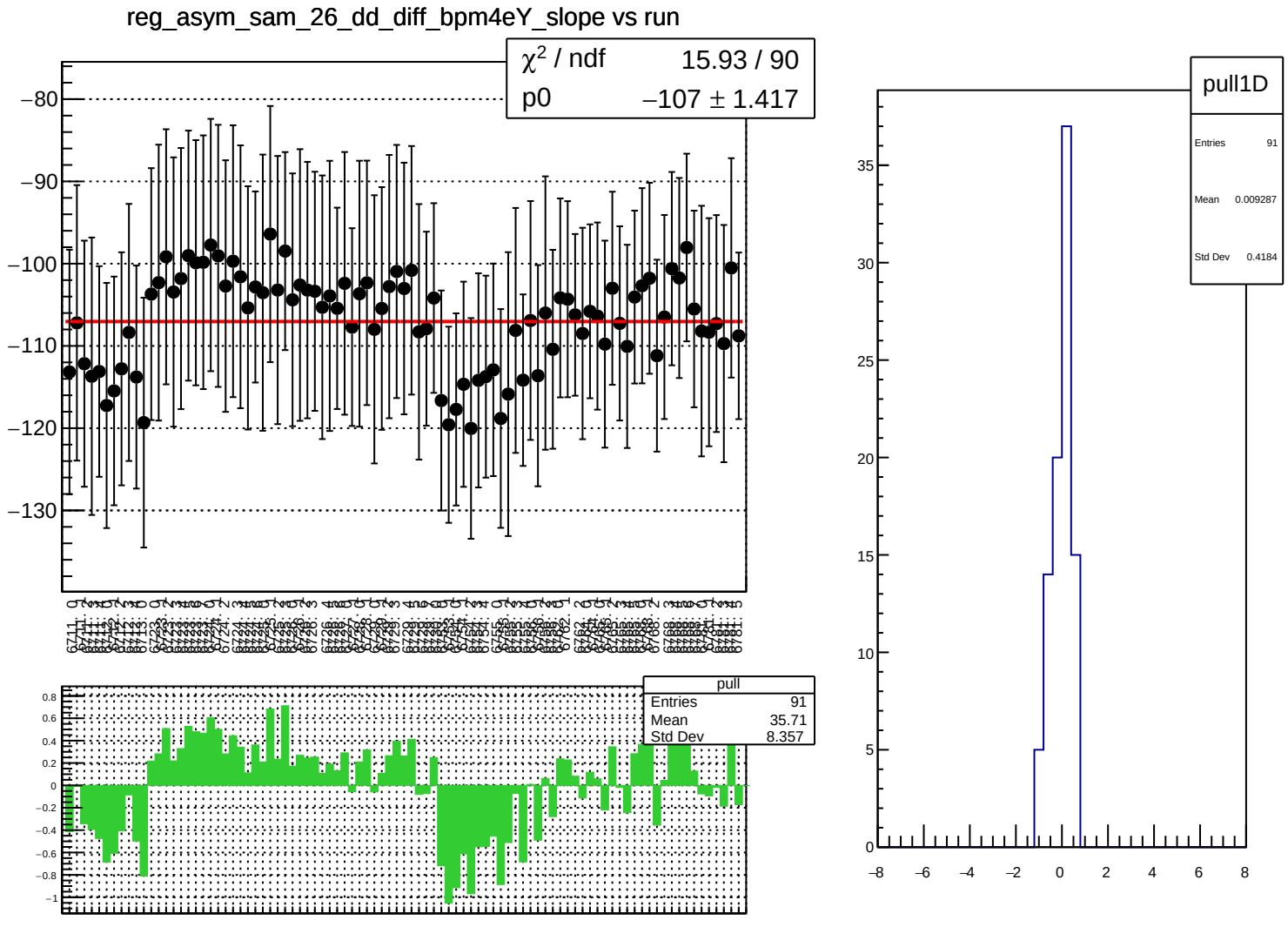

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 459.8 / 90
p0 −19.53 ± 0.3093
pull
Entries 91
Mean 259.2
Std Dev 0
pull1D
Entries 91
Mean −0.191
Std Dev 2.24

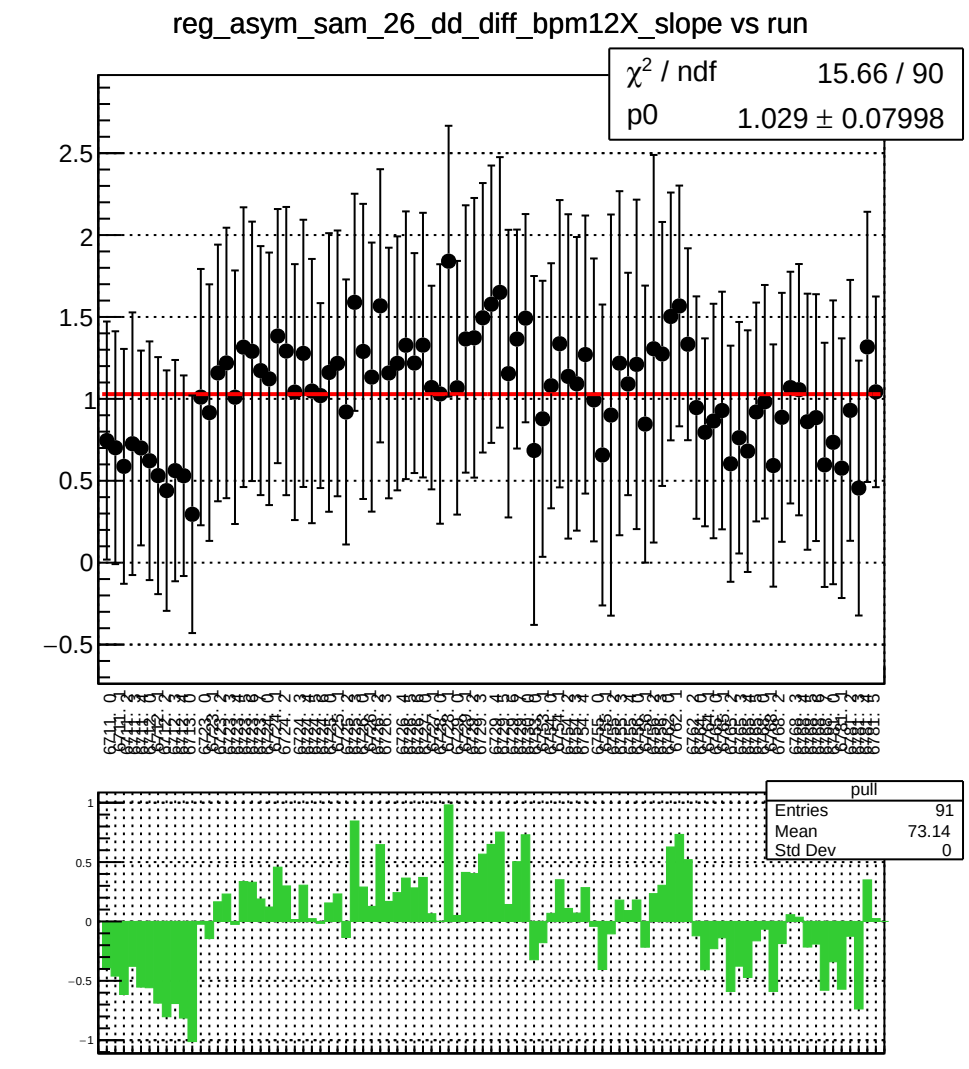

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 18.94 / 90
p0 0.4107 ± 0.01717
pull
Entries 91
Mean 167.4
Std Dev 0
pull1D
Entries 91
Mean 0.06302
Std Dev 0.4518

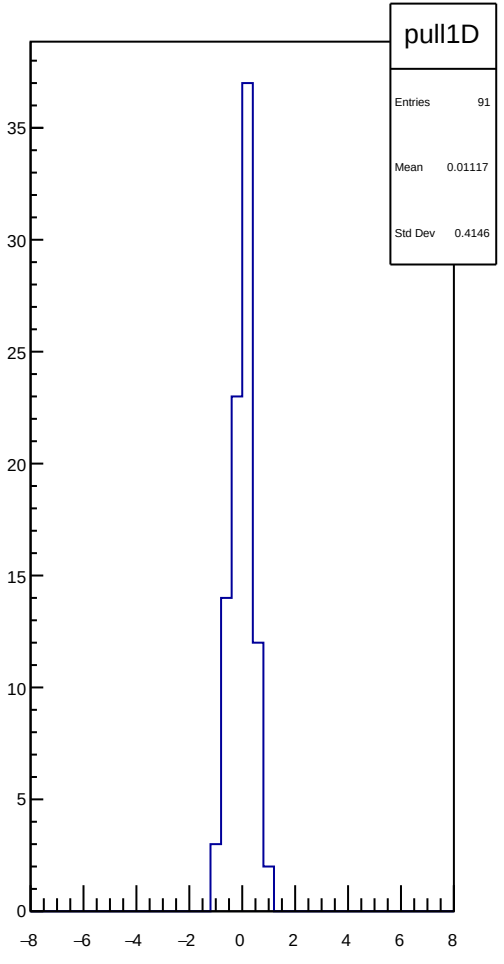

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 24.22 / 90
p0 −35.33 ± 1.929
pull
Entries 91
Mean 467.8
Std Dev 0
pull1D
Entries 91
Mean −0.02706
Std Dev 0.5152

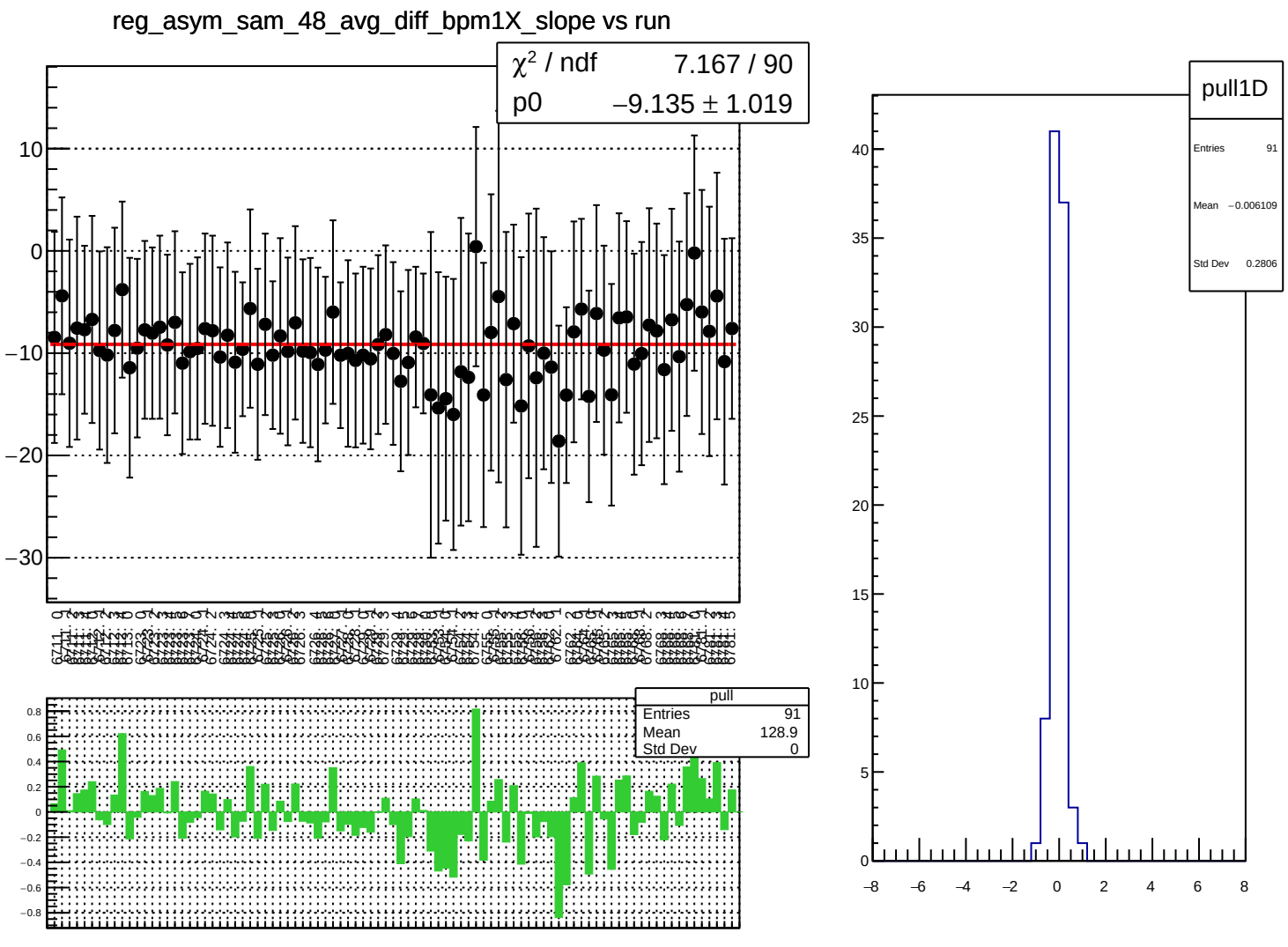

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.8 / 90
p0 −35.55 ± 1.133
−20
−30
−40
−50
−60
pull
Entries 91
Mean −12.44
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 91
Mean −0.05041
Std Dev 0.498
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

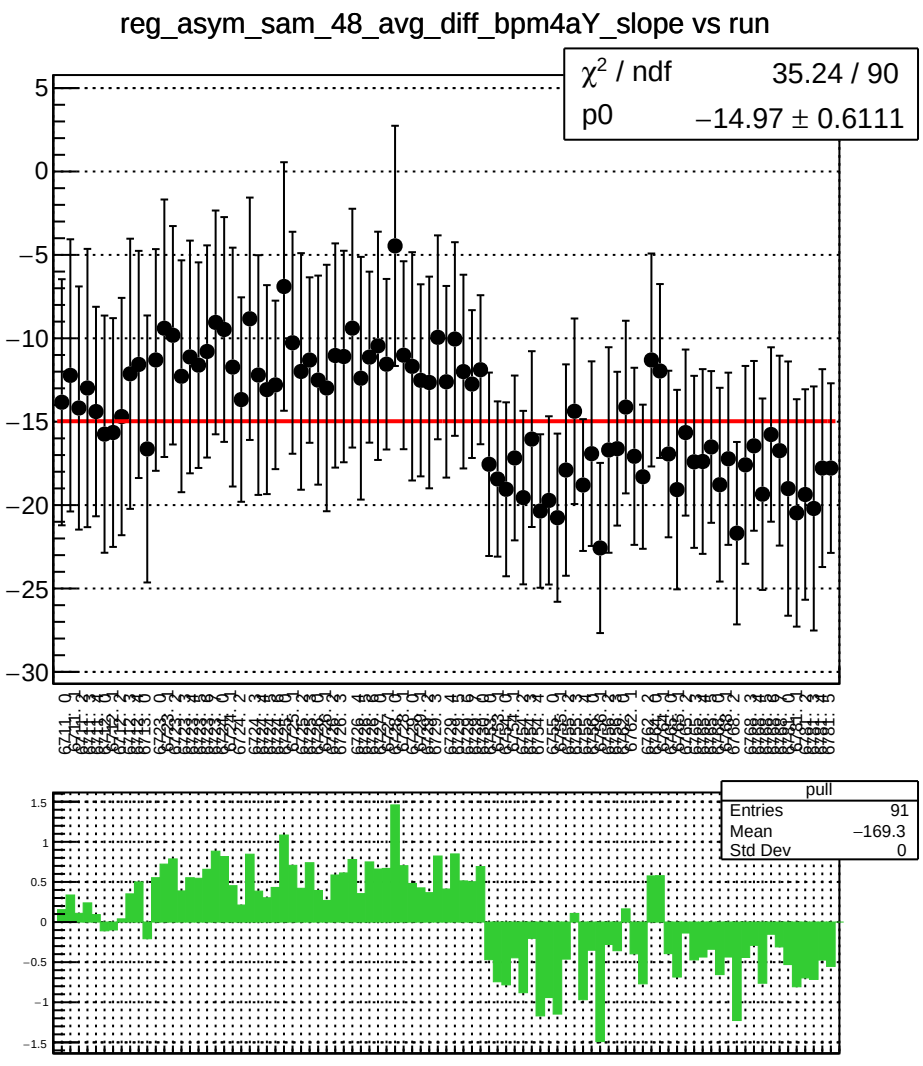

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.91 / 90
p0 −93.34 ± 1.851
pull
Entries 91
Mean 590.9
Std Dev 0
pull1D
Entries 91
Mean 0.0124
Std Dev 0.4045

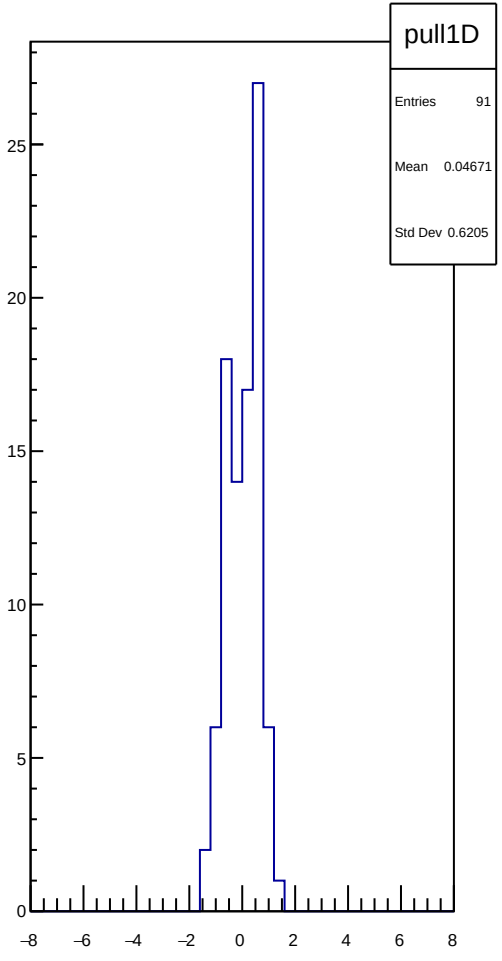

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.93 / 90
p0 −107 ± 1.417
−80
−90
−100
−110
−120
−130
pull
Entries 91
Mean 35.71
Std Dev 8.357
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 91
Mean 0.009287
Std Dev 0.4184
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

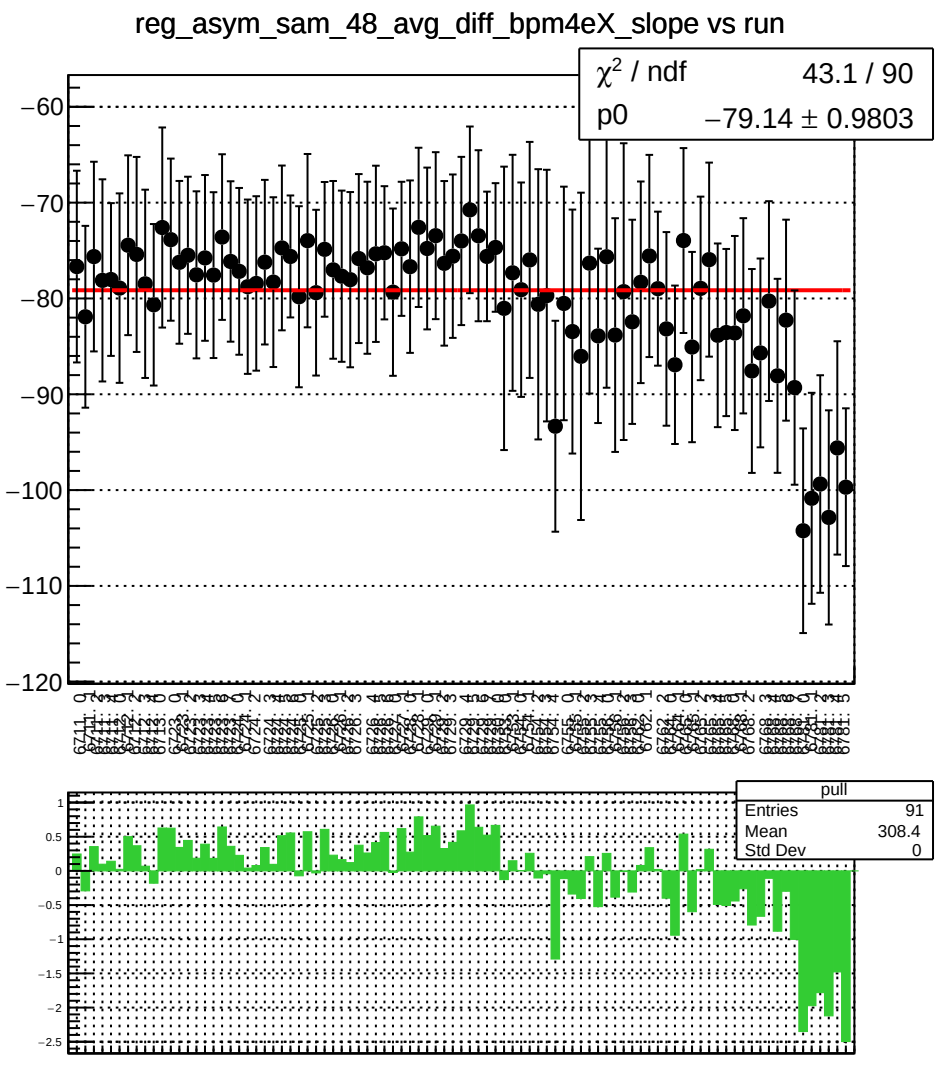

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 15.66 / 90
p0 1.029 ± 0.07998
pull
Entries 91
Mean 73.14
Std Dev 0

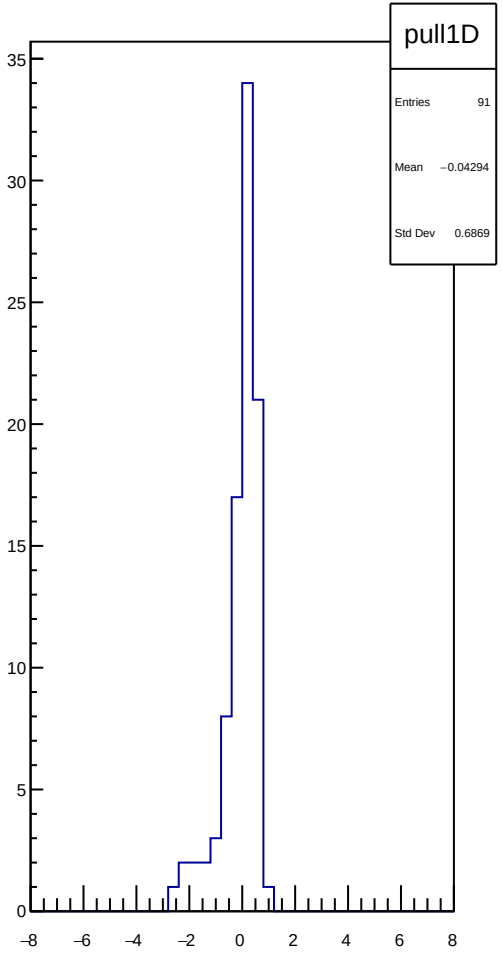

pull1D
Entries 91
Mean 0.01117
Std Dev 0.4146

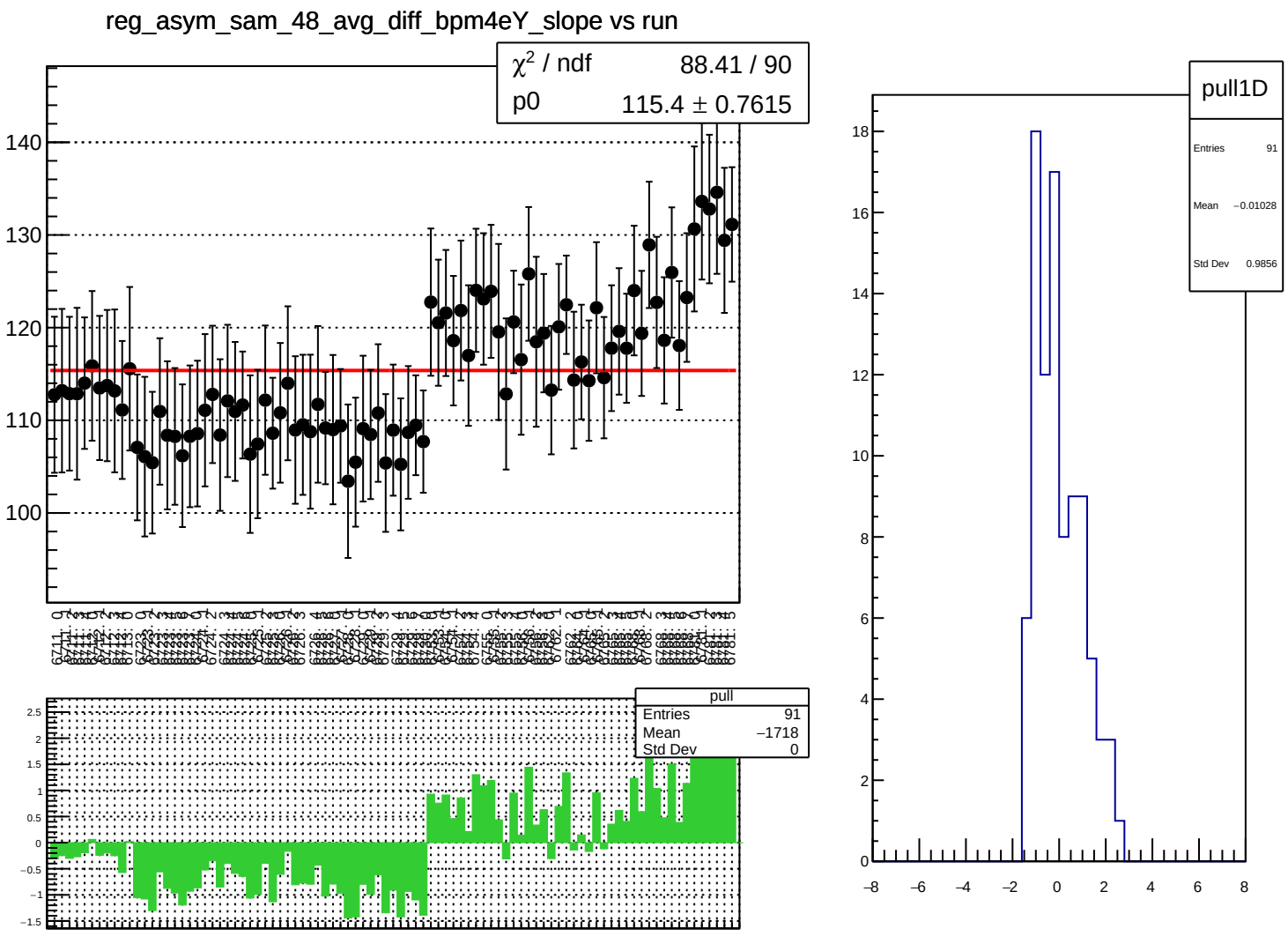

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 7.167 / 90
p0 −9.135 ± 1.019
10
0
−10
−20
−30
pull
Entries 91
Mean 128.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 91
Mean −0.006109
Std Dev 0.2806
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

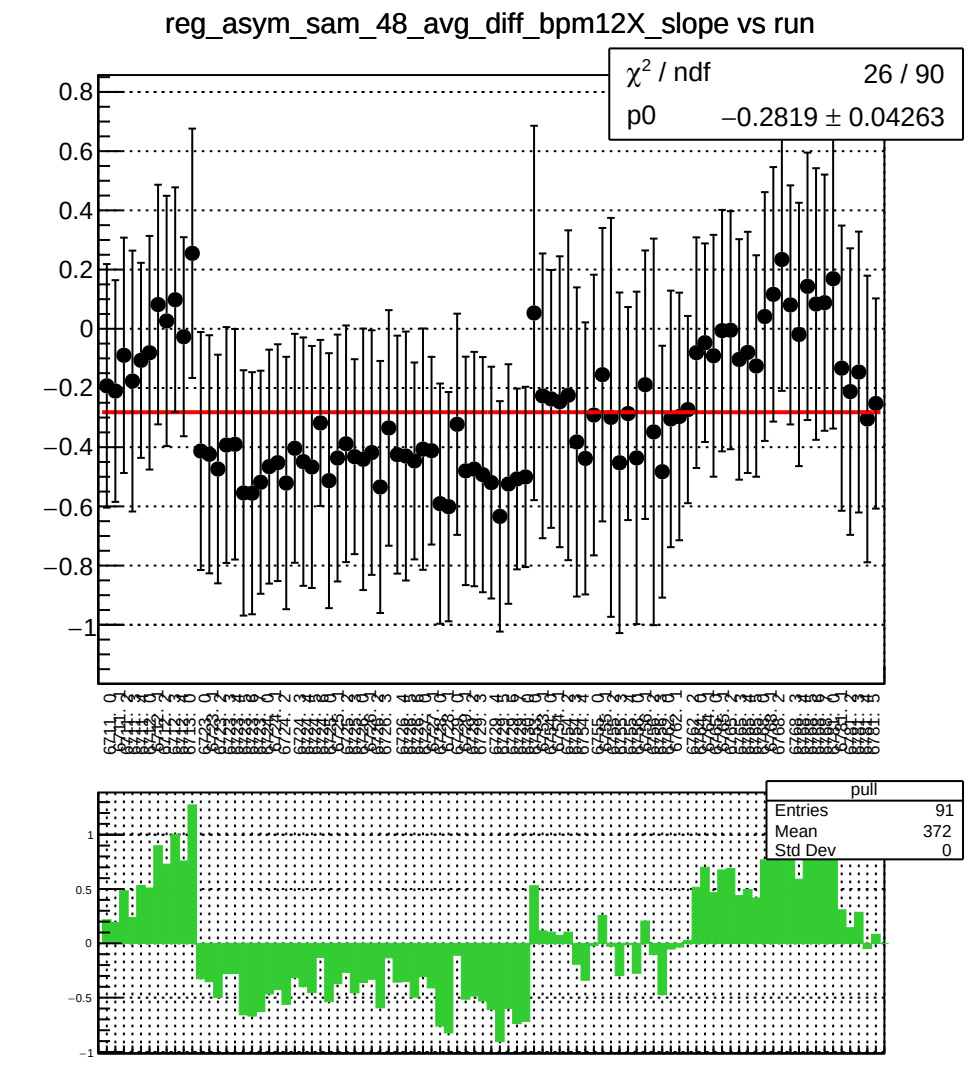

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.24 / 90
p0 −14.97 ± 0.6111
pull
Entries 91
Mean −169.3
Std Dev 0

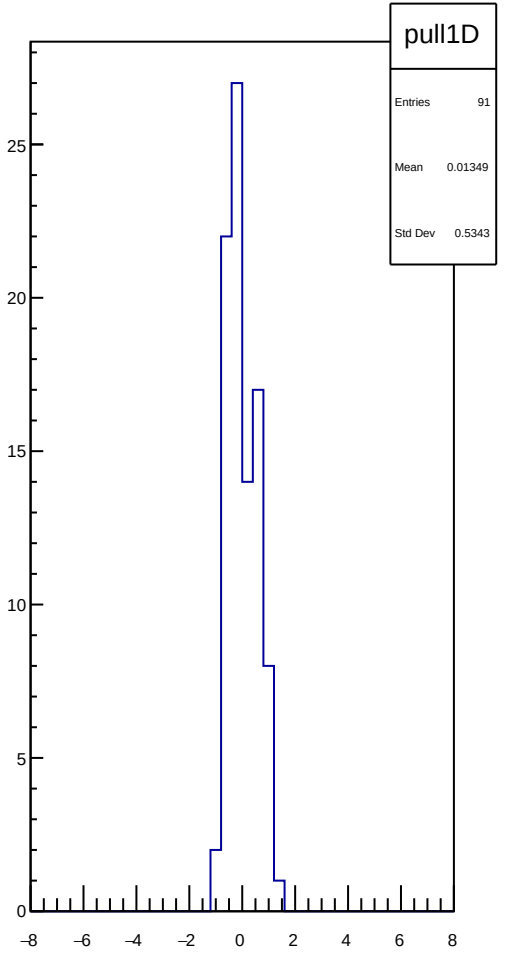

pull1D
Entries 91
Mean 0.04671
Std Dev 0.6205

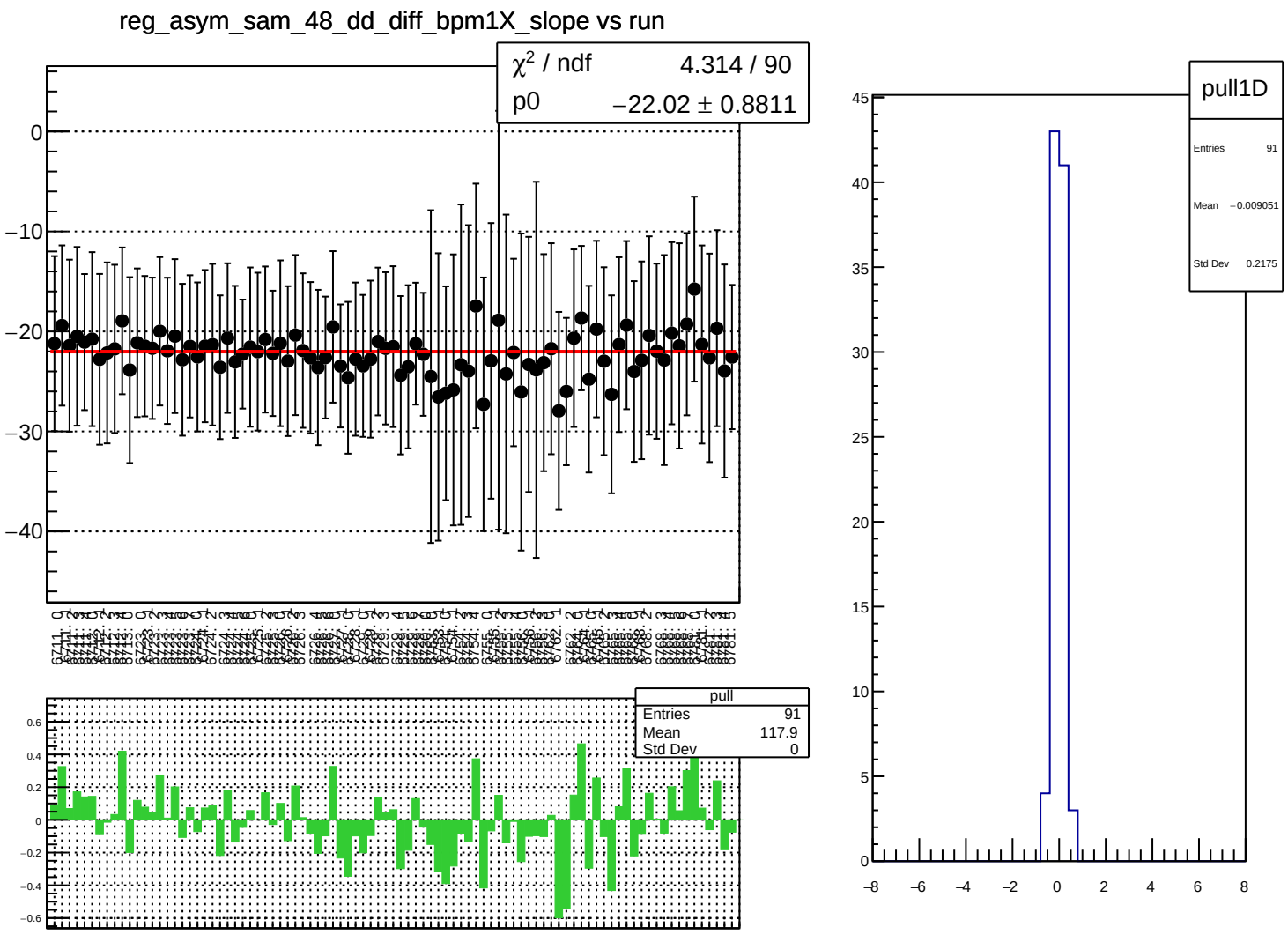

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.1 / 90
p0 −79.14 ± 0.9803
pull
Entries 91
Mean 308.4
Std Dev 0

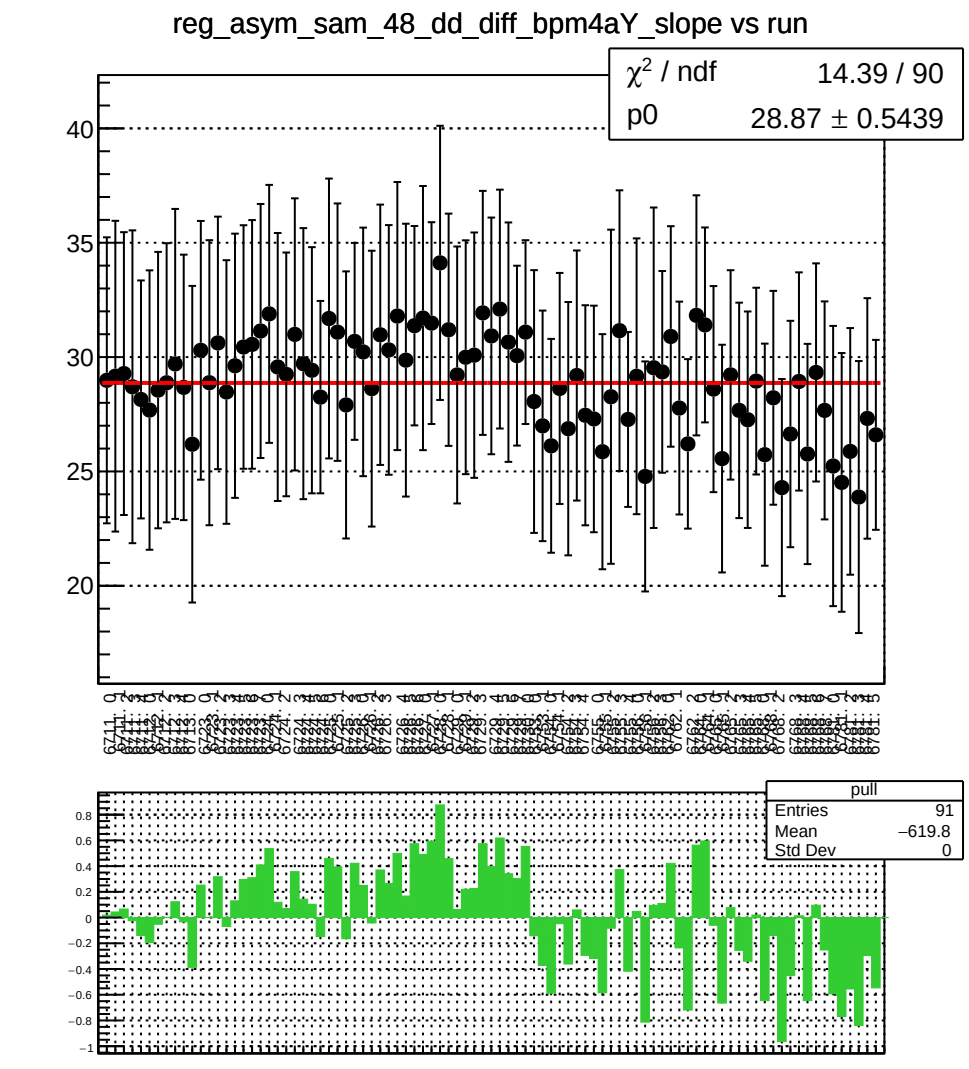

pull1D
Entries 91
Mean −0.04294
Std Dev 0.6869

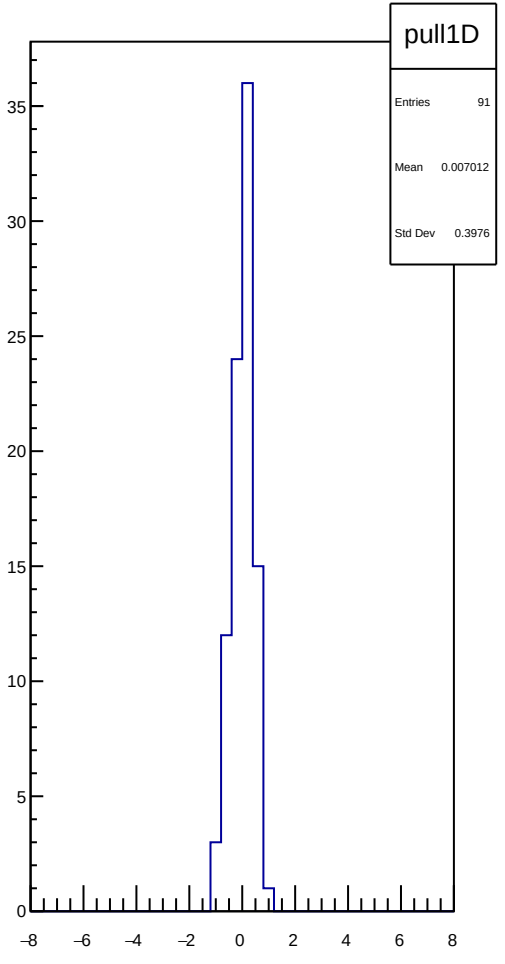

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 88.41 / 90
p0 115.4 ± 0.7615
140
130
120
110
100
pull
Entries 91
Mean −1718
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean −0.01028
Std Dev 0.9856
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

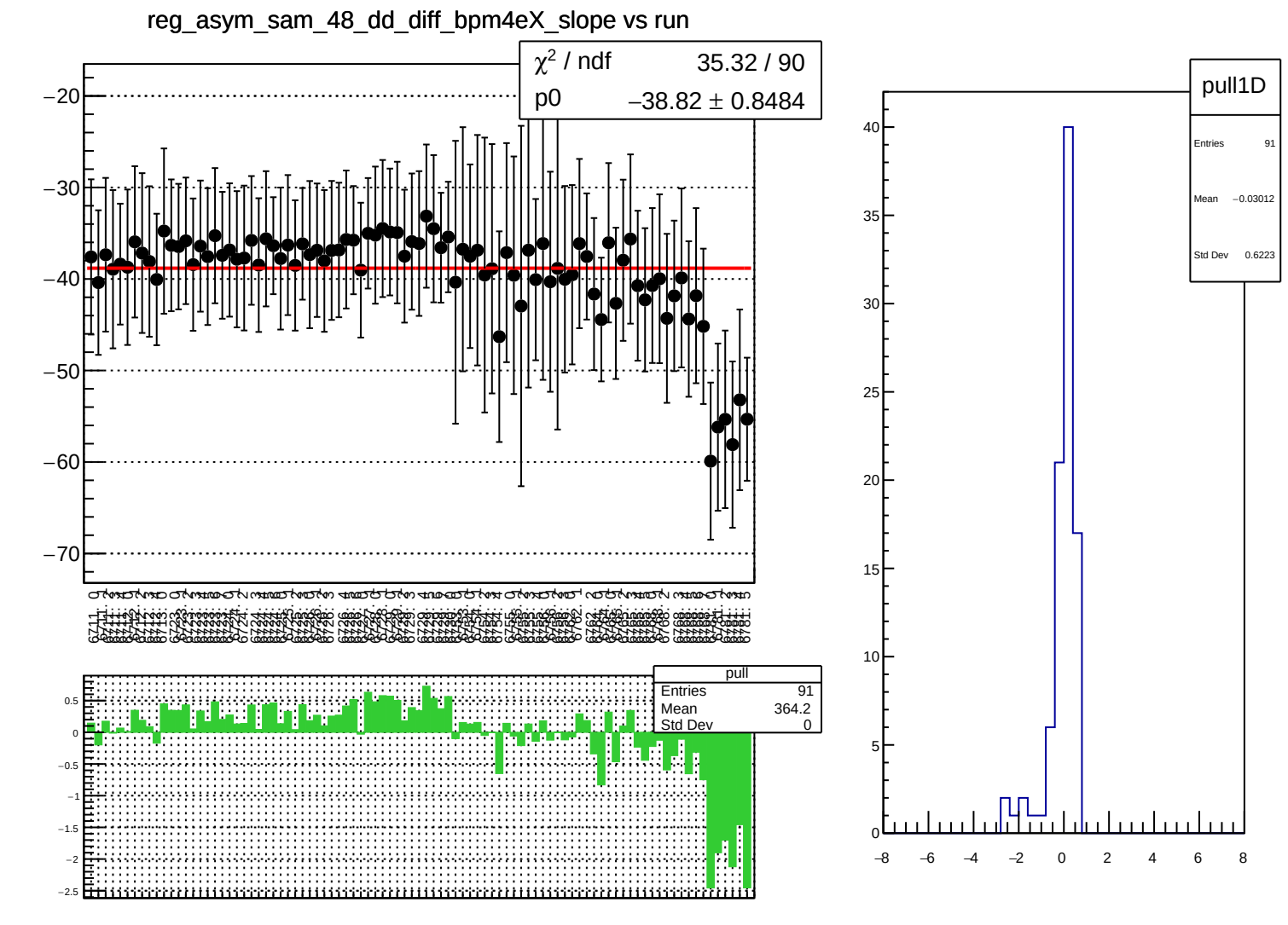

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 26 / 90
p0 −0.2819 ± 0.04263
pull
Entries 91
Mean 372
Std Dev 0

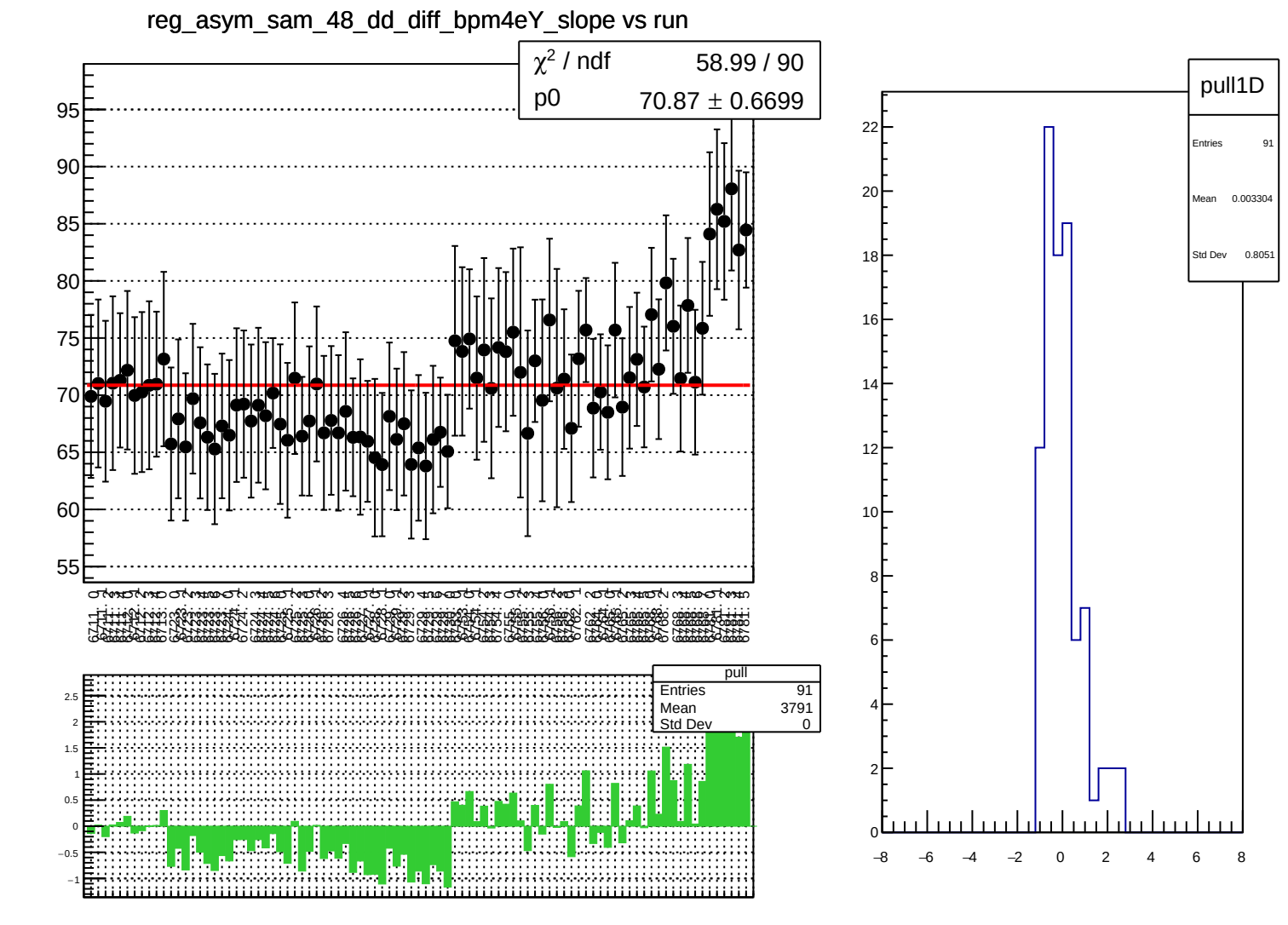

pull1D
Entries 91
Mean 0.01349
Std Dev 0.5343

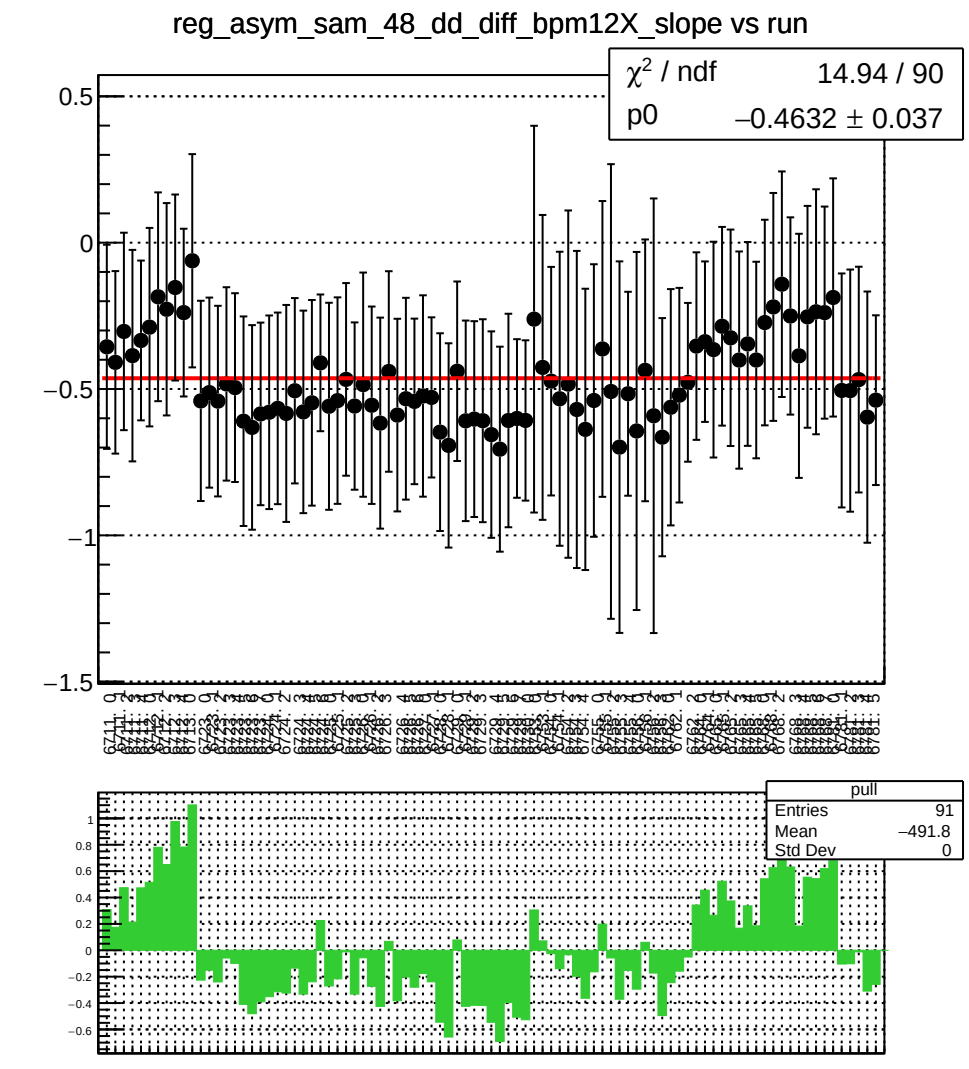

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 4.314 / 90
p0 −22.02 ± 0.8811
pull
Entries 91
Mean 117.9
Std Dev 0
pull1D
Entries 91
Mean −0.009051
Std Dev 0.2175

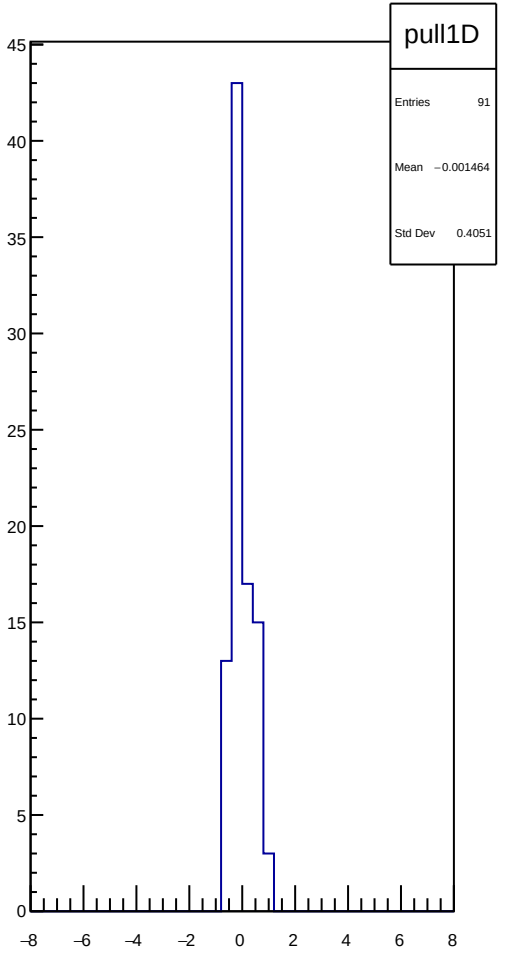

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.39 / 90
p0 28.87 ± 0.5439
pull
Entries 91
Mean −619.8
Std Dev 0

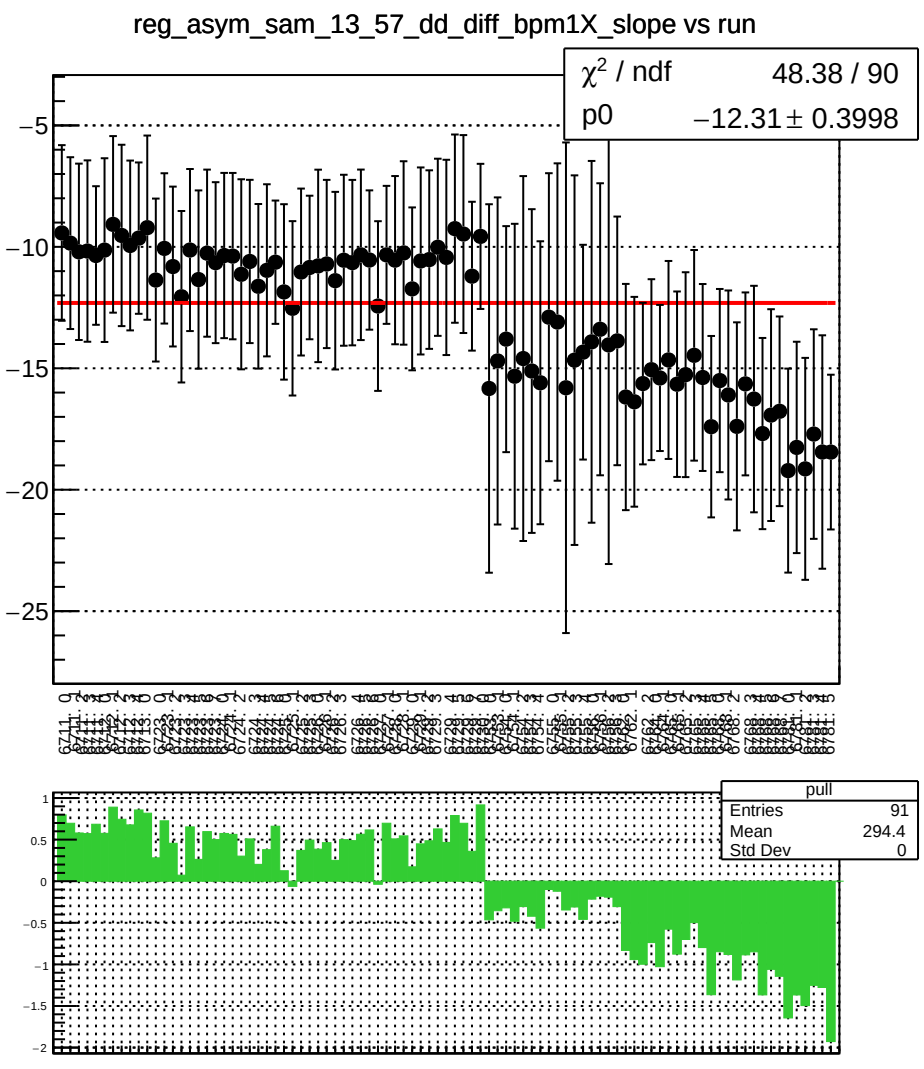

pull1D
Entries 91
Mean 0.007012
Std Dev 0.3976

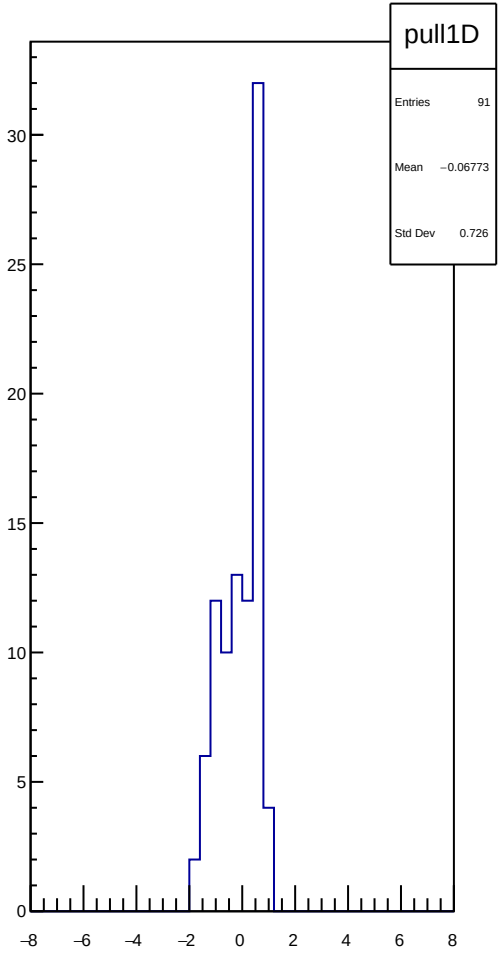

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.32 / 90
p0 −38.82 ± 0.8484
pull
Entries 91
Mean 364.2
Std Dev 0
pull1D
Entries 91
Mean −0.03012
Std Dev 0.6223

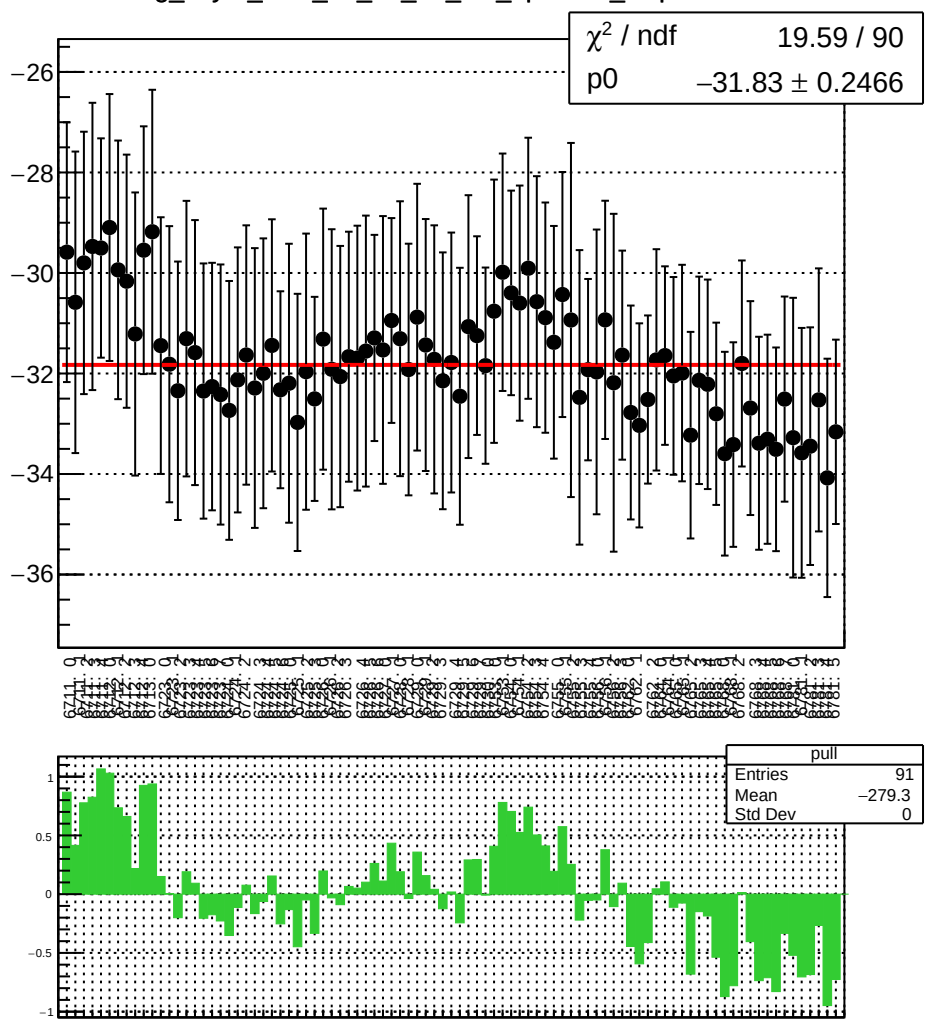

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 58.99 / 90
p0 70.87 ± 0.6699
pull
Entries 91
Mean 3791
Std Dev 0
pull1D
Entries 91
Mean 0.003304
Std Dev 0.8051

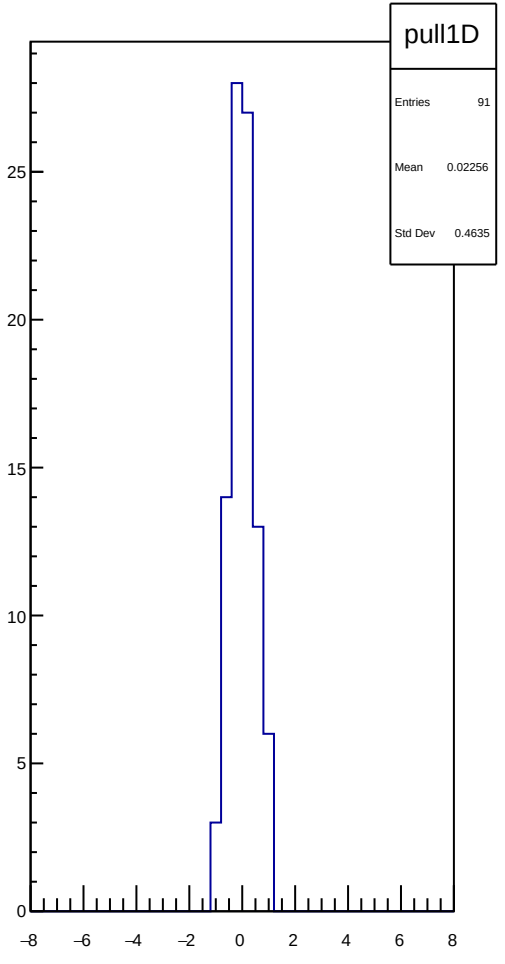

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 14.94 / 90
p0 −0.4632 ± 0.037
0.5
0
−0.5
−1
−1.5
pull
Entries 91
Mean −491.8
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

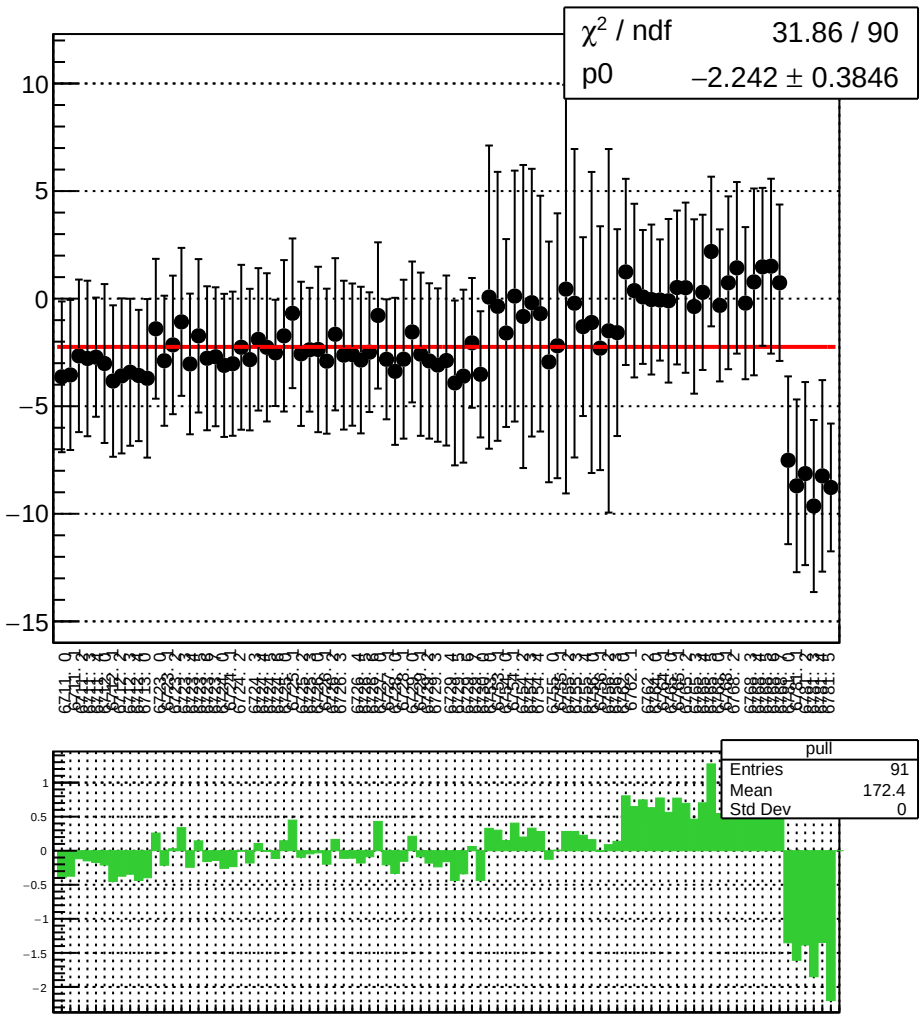

pull1D
Entries 91
Mean −0.001464
Std Dev 0.4051
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

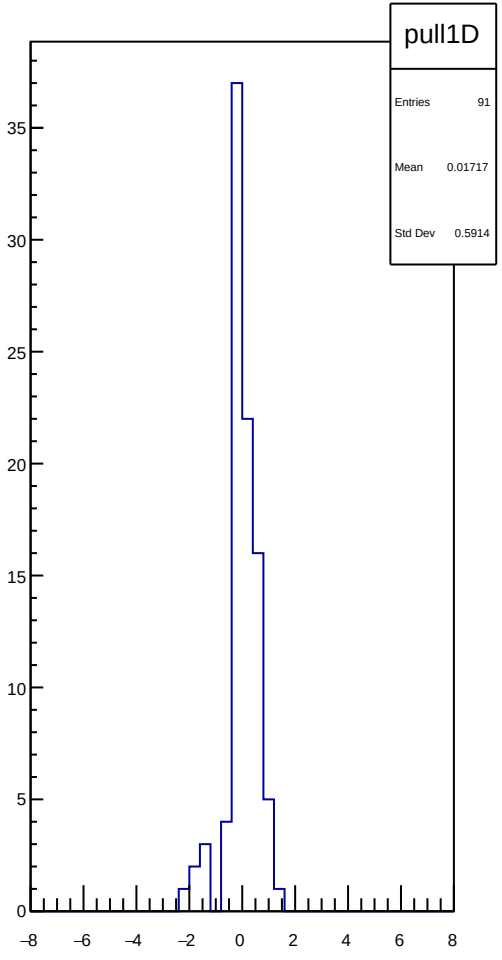

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 48.38 / 90
p0 −12.31 ± 0.3998
pull
Entries 91
Mean 294.4
Std Dev 0

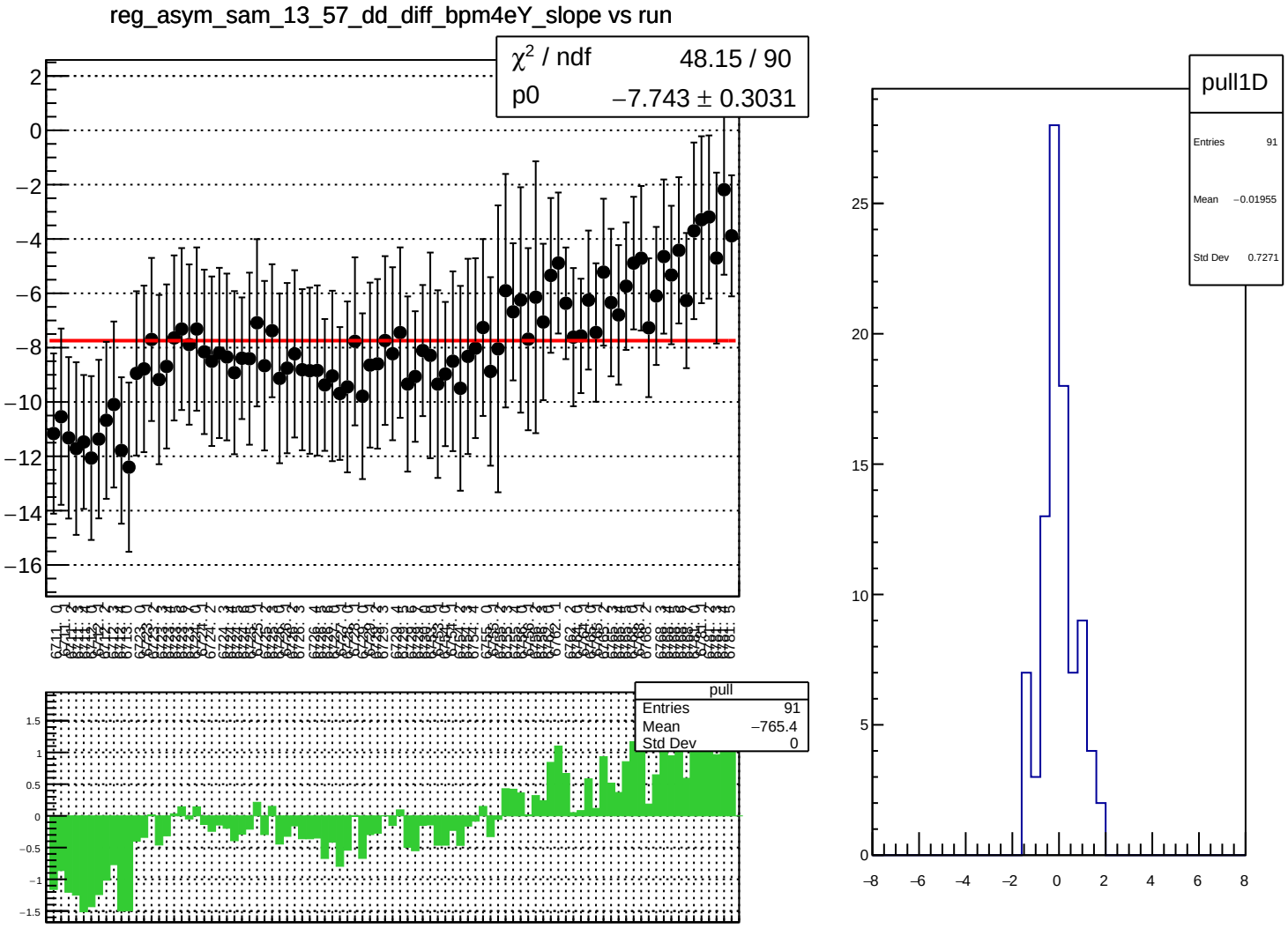

pull1D
Entries 91
Mean −0.06773
Std Dev 0.726

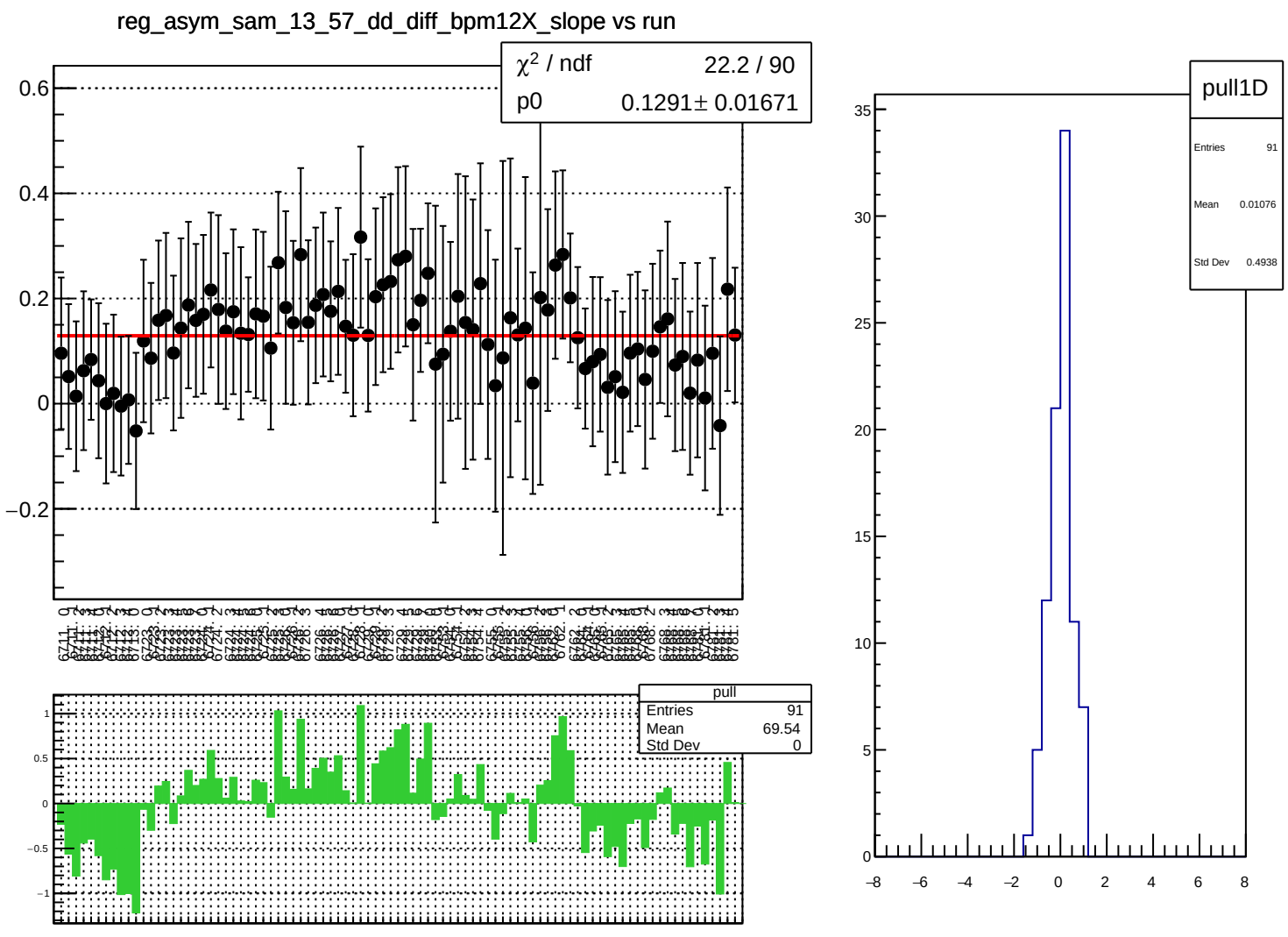

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.59 / 90
p0 −31.83 ± 0.2466
−26
−28
−30
−32
−34
−36
pull
Entries 91
Mean −279.3
Std Dev 0
1
0.5
0
−0.5
−1

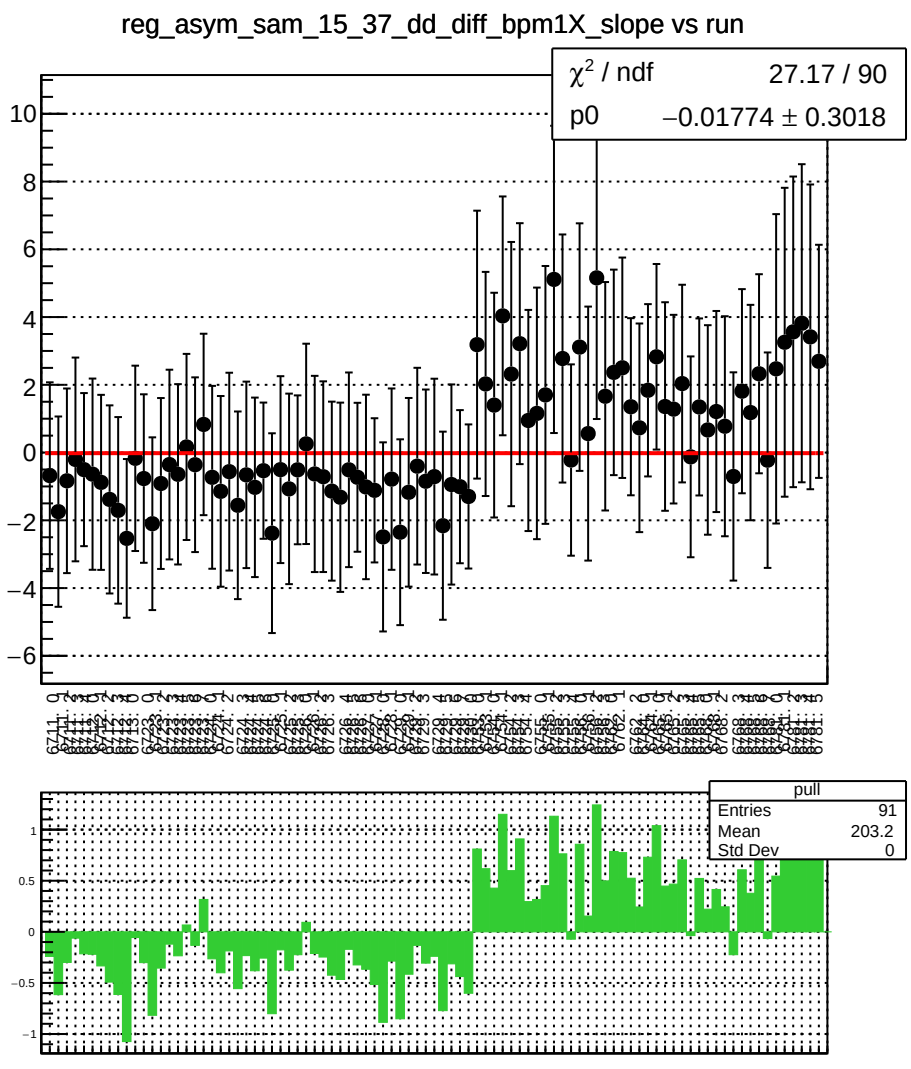

pull1D
Entries 91
Mean 0.02256
Std Dev 0.4635
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

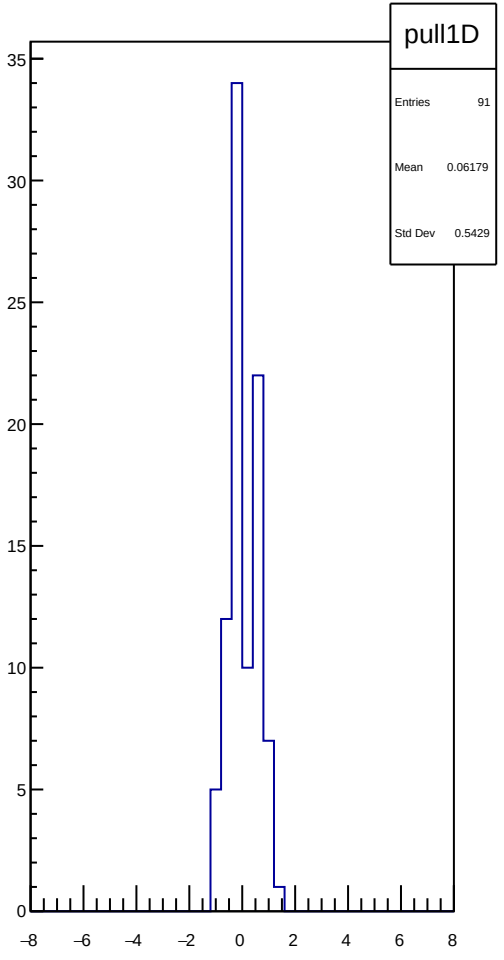

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.86 / 90
p0 −2.242 ± 0.3846
pull
Entries 91
Mean 172.4
Std Dev 0

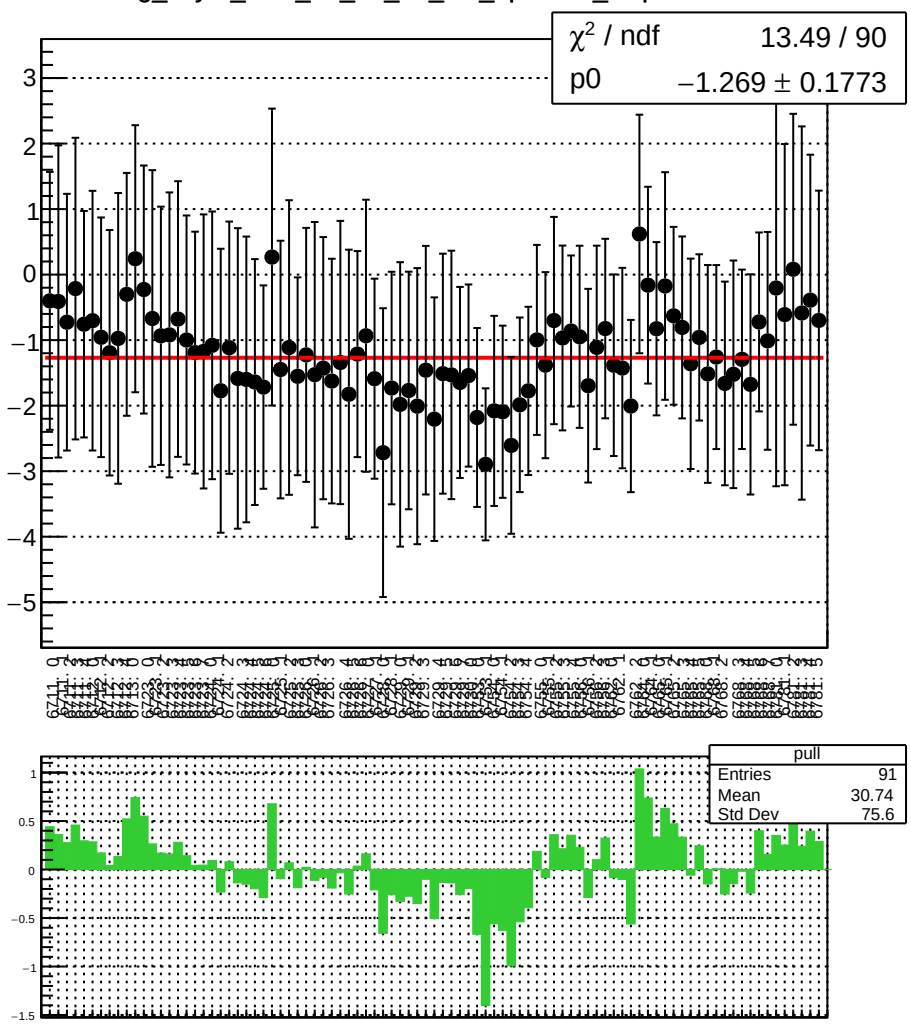

pull1D
Entries 91
Mean 0.01717
Std Dev 0.5914

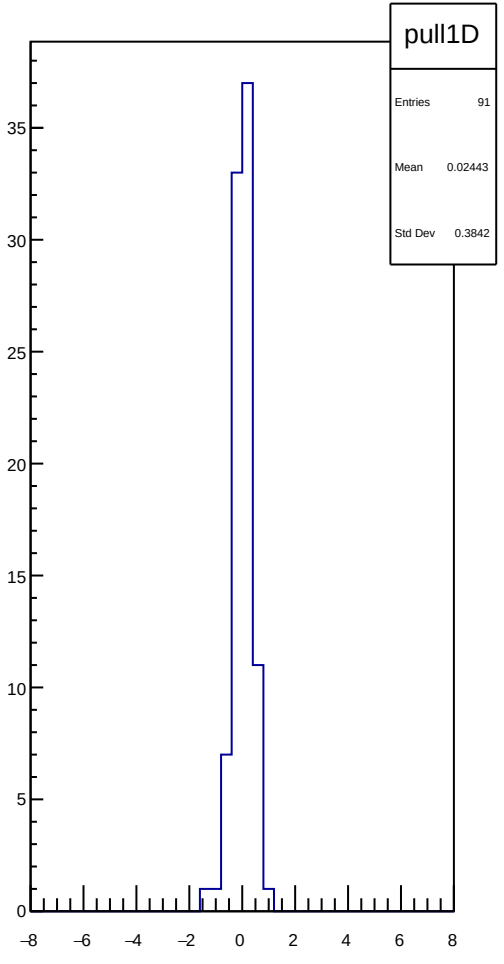

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.15 / 90
p0 −7.743 ± 0.3031
pull
Entries 91
Mean −765.4
Std Dev 0
pull1D
Entries 91
Mean −0.01955
Std Dev 0.7271

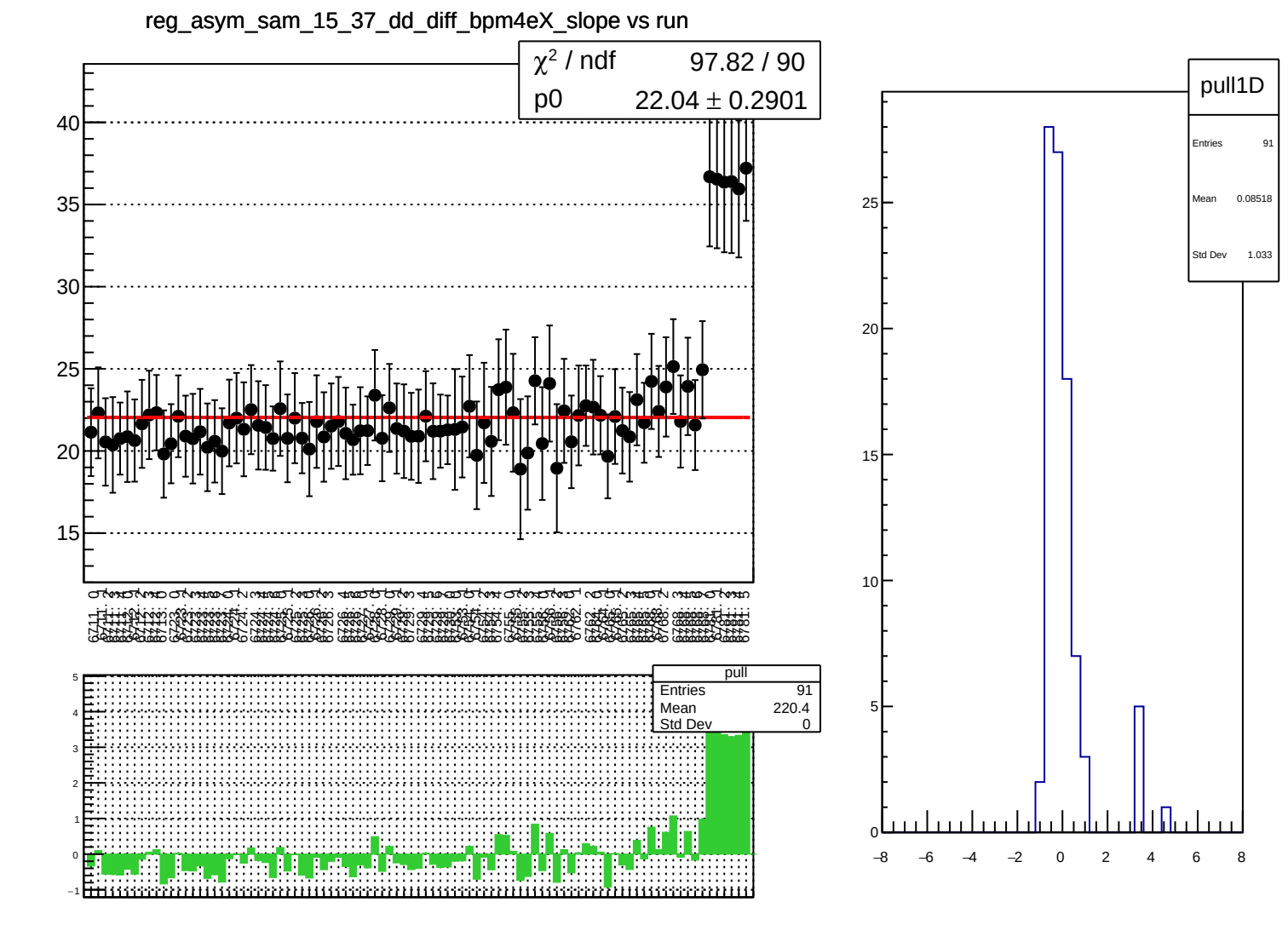

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 22.2 / 90
p0 0.1291± 0.01671
pull
Entries 91
Mean 69.54
Std Dev 0
pull1D
Entries 91
Mean 0.01076
Std Dev 0.4938

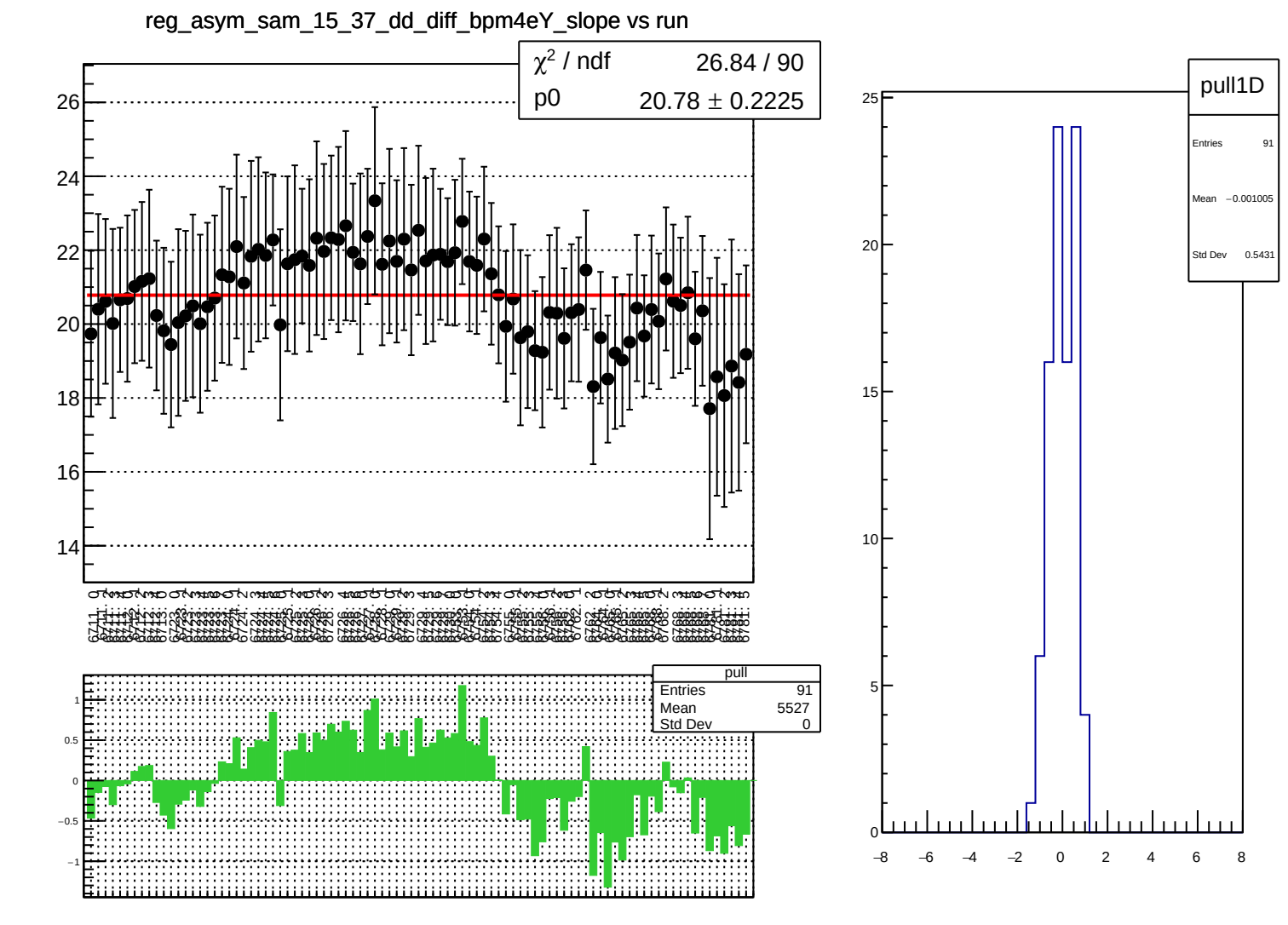

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 27.17 / 90
p0 −0.01774 ± 0.3018
pull
Entries 91
Mean 203.2
Std Dev 0

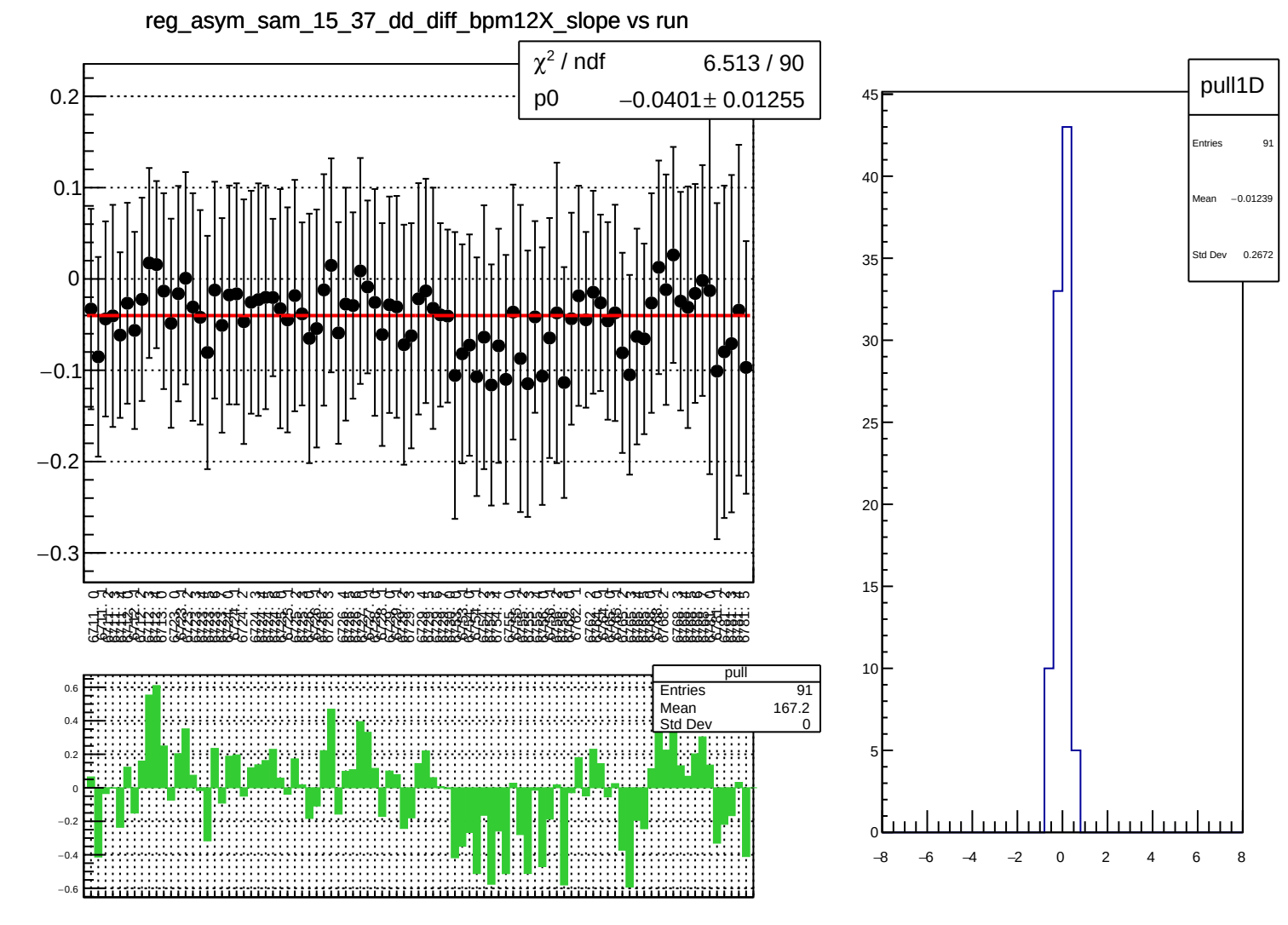

pull1D
Entries 91
Mean 0.06179
Std Dev 0.5429

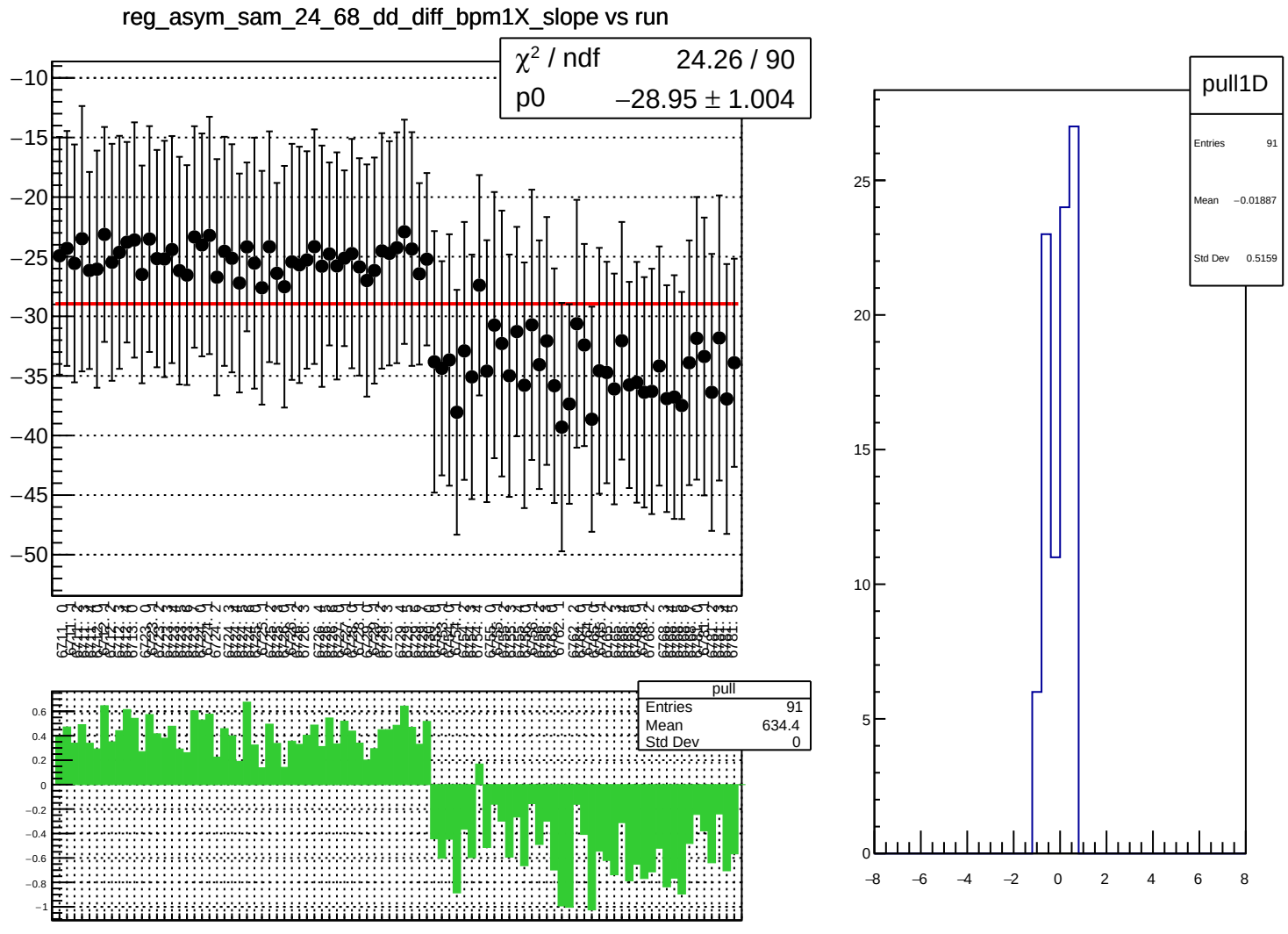

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.49 / 90
p0 −1.269 ± 0.1773
pull
Entries 91
Mean 30.74
Std Dev 75.6

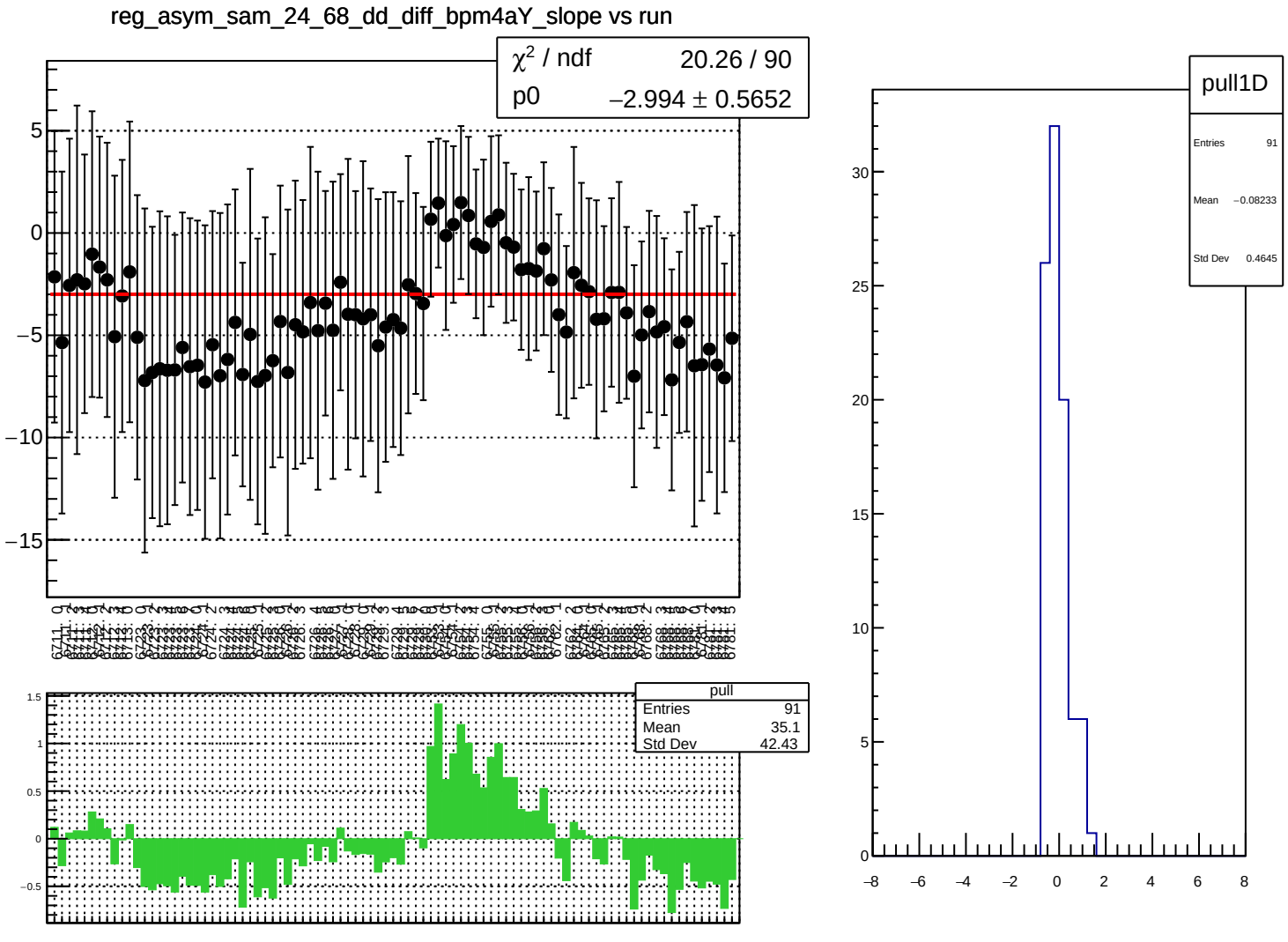

pull1D
Entries 91
Mean 0.02443
Std Dev 0.3842

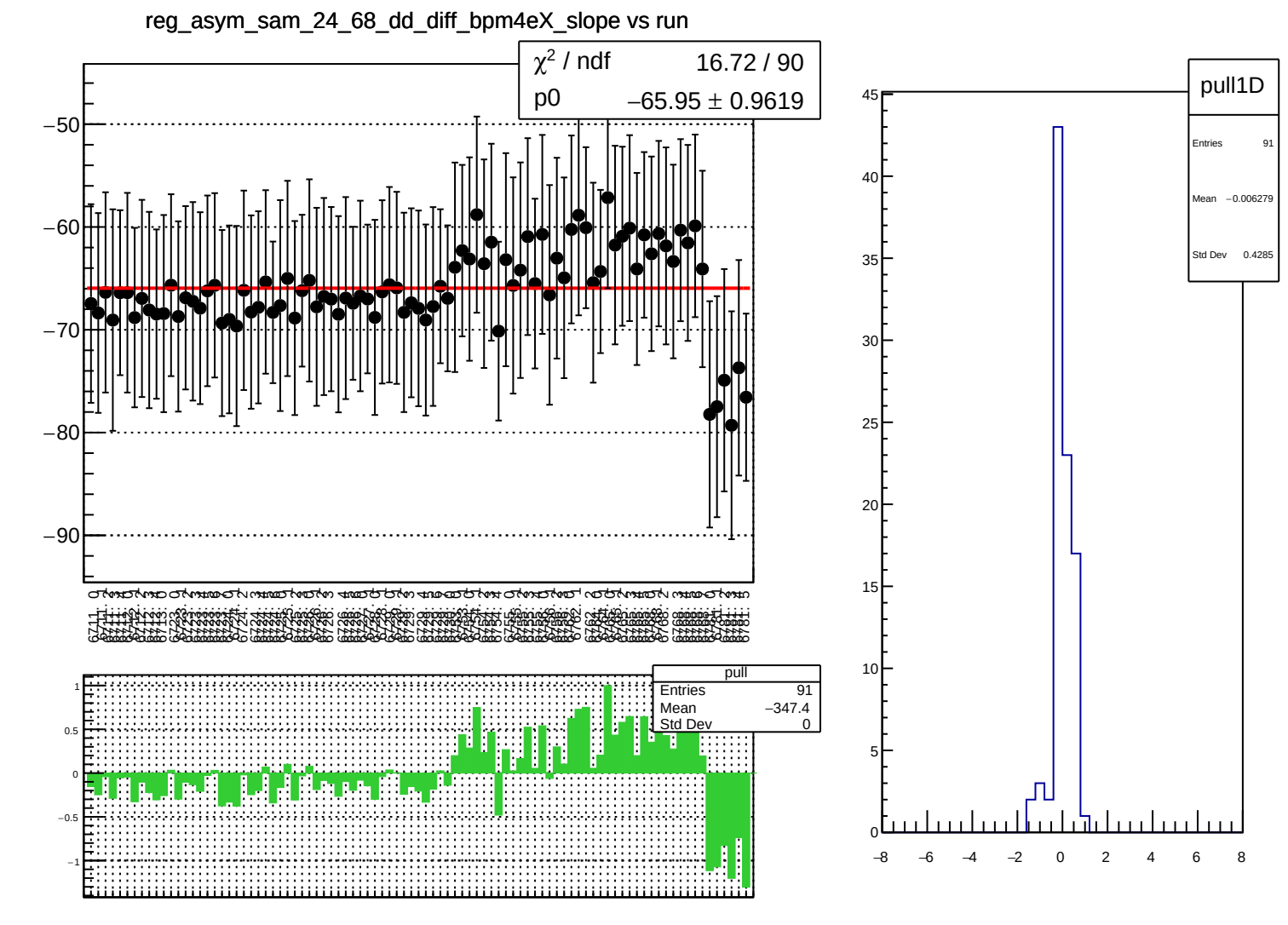

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 97.82 / 90
p0 22.04 ± 0.2901
pull
Entries 91
Mean 220.4
Std Dev 0
pull1D
Entries 91
Mean 0.08518
Std Dev 1.033

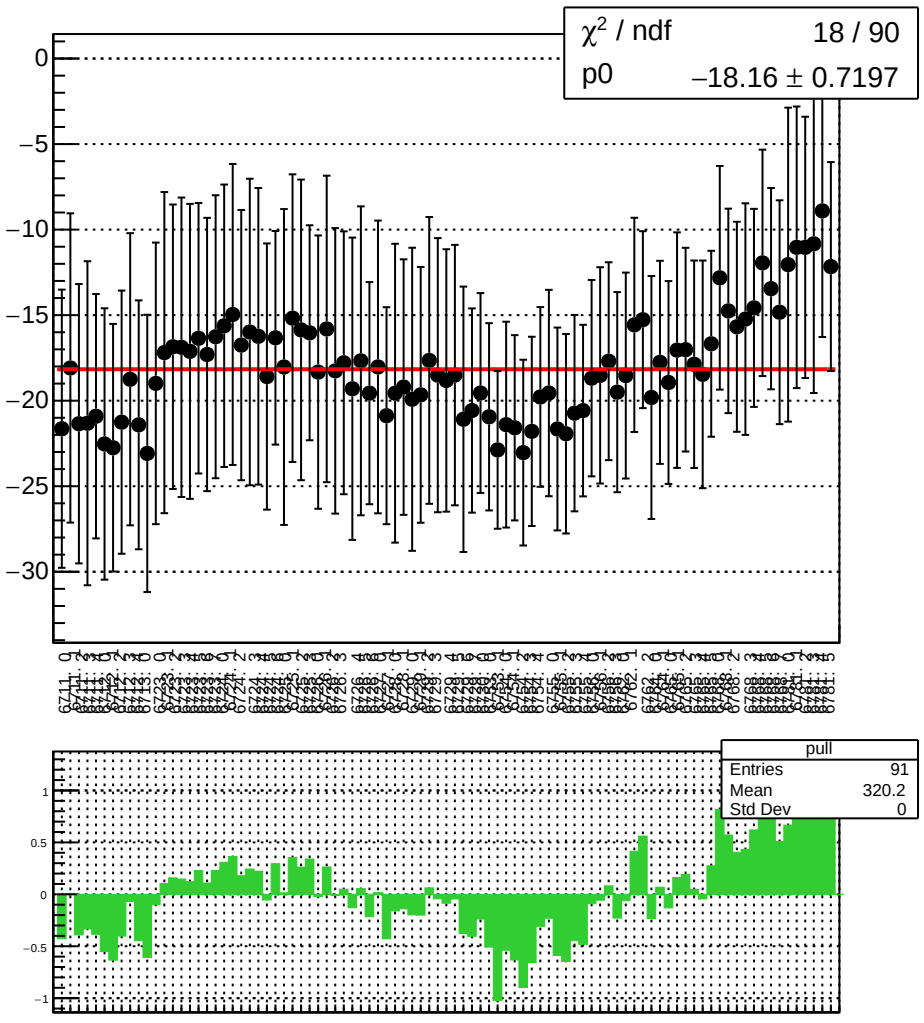

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.84 / 90
p0 20.78 ± 0.2225
pull
Entries 91
Mean 5527
Std Dev 0
pull1D
Entries 91
Mean −0.001005
Std Dev 0.5431

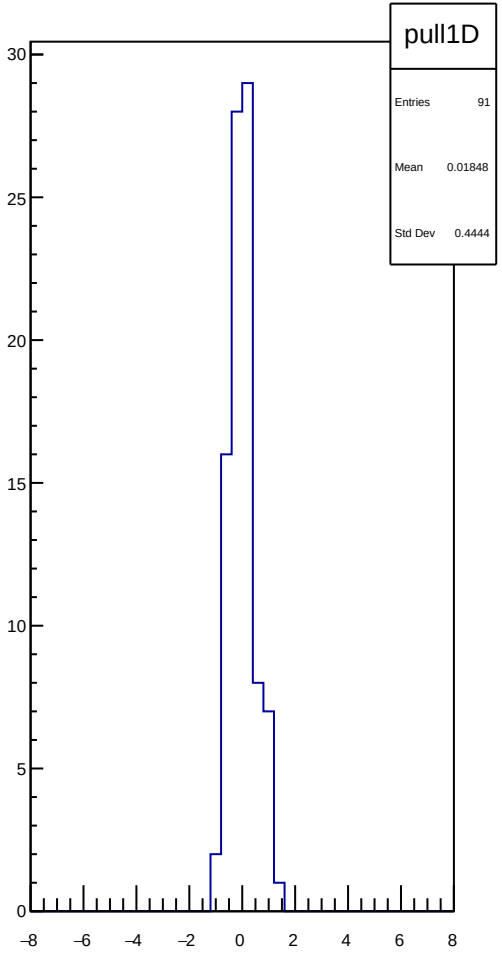

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 6.513 / 90
p0 −0.0401 ± 0.01255
pull
Entries 91
Mean 167.2
Std Dev 0
pull1D
Entries 91
Mean −0.01239
Std Dev 0.2672

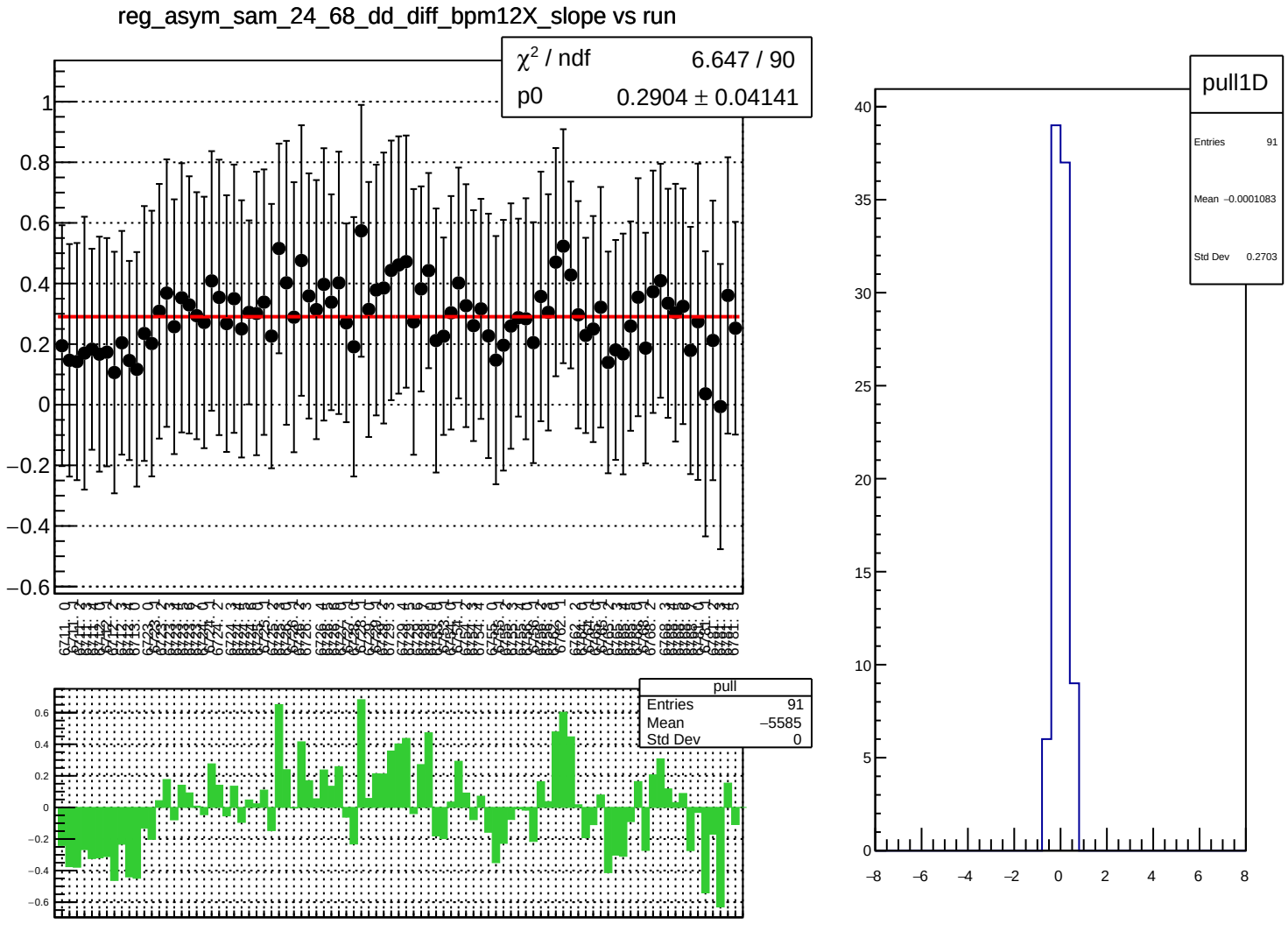

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 24.26 / 90
p0 −28.95 ± 1.004
pull
Entries 91
Mean 634.4
Std Dev 0
pull1D
Entries 91
Mean −0.01887
Std Dev 0.5159

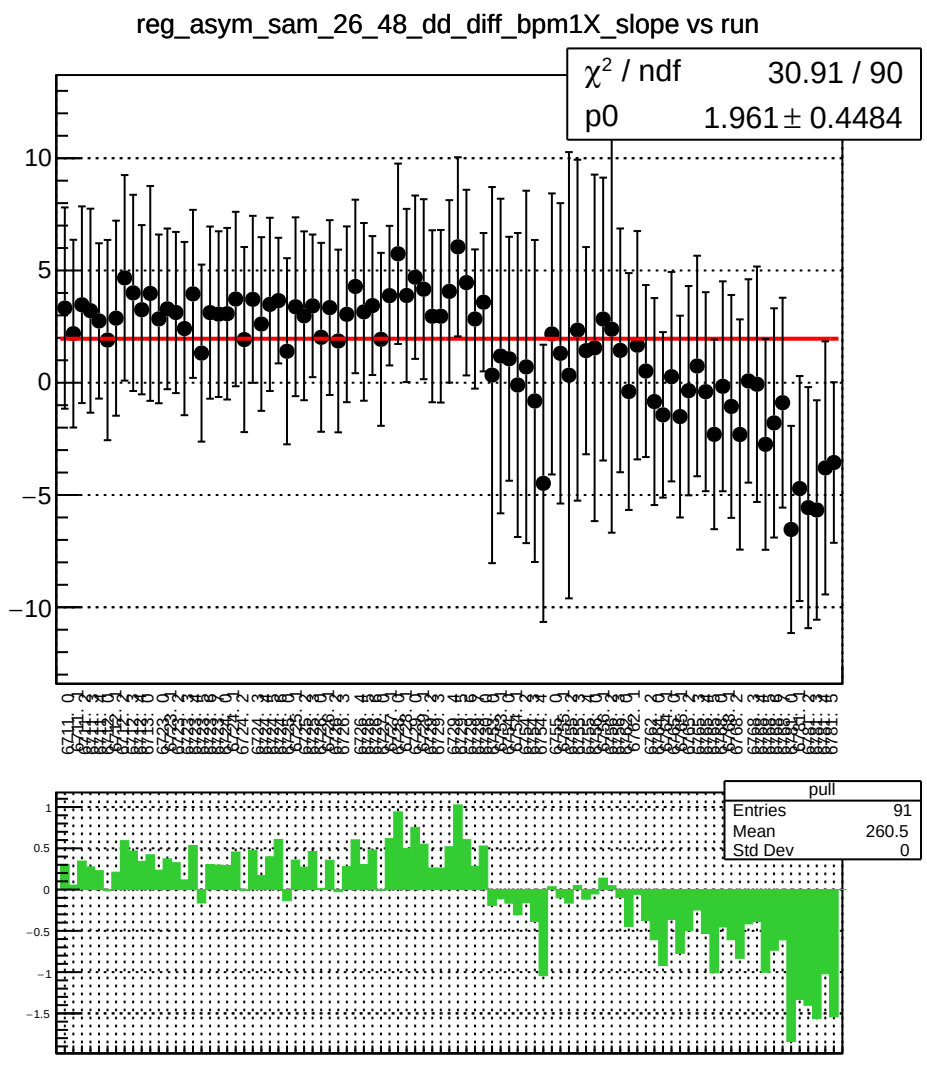

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.26 / 90
p0 −2.994 ± 0.5652
pull
Entries 91
Mean 35.1
Std Dev 42.43
pull1D
Entries 91
Mean −0.08233
Std Dev 0.4645

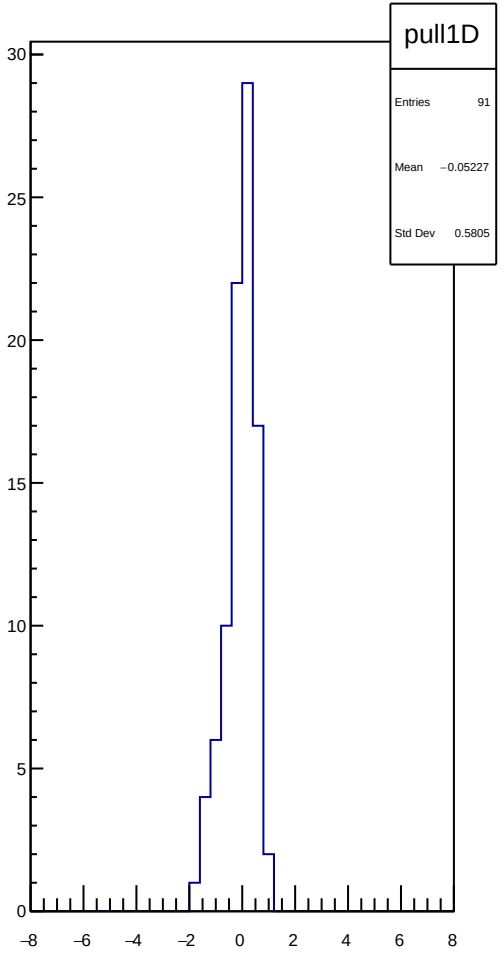

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.72 / 90
p0 −65.95 ± 0.9619
−50
−60
−70
−80
−90
pull
Entries 91
Mean −347.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 91
Mean −0.006279
Std Dev 0.4285
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

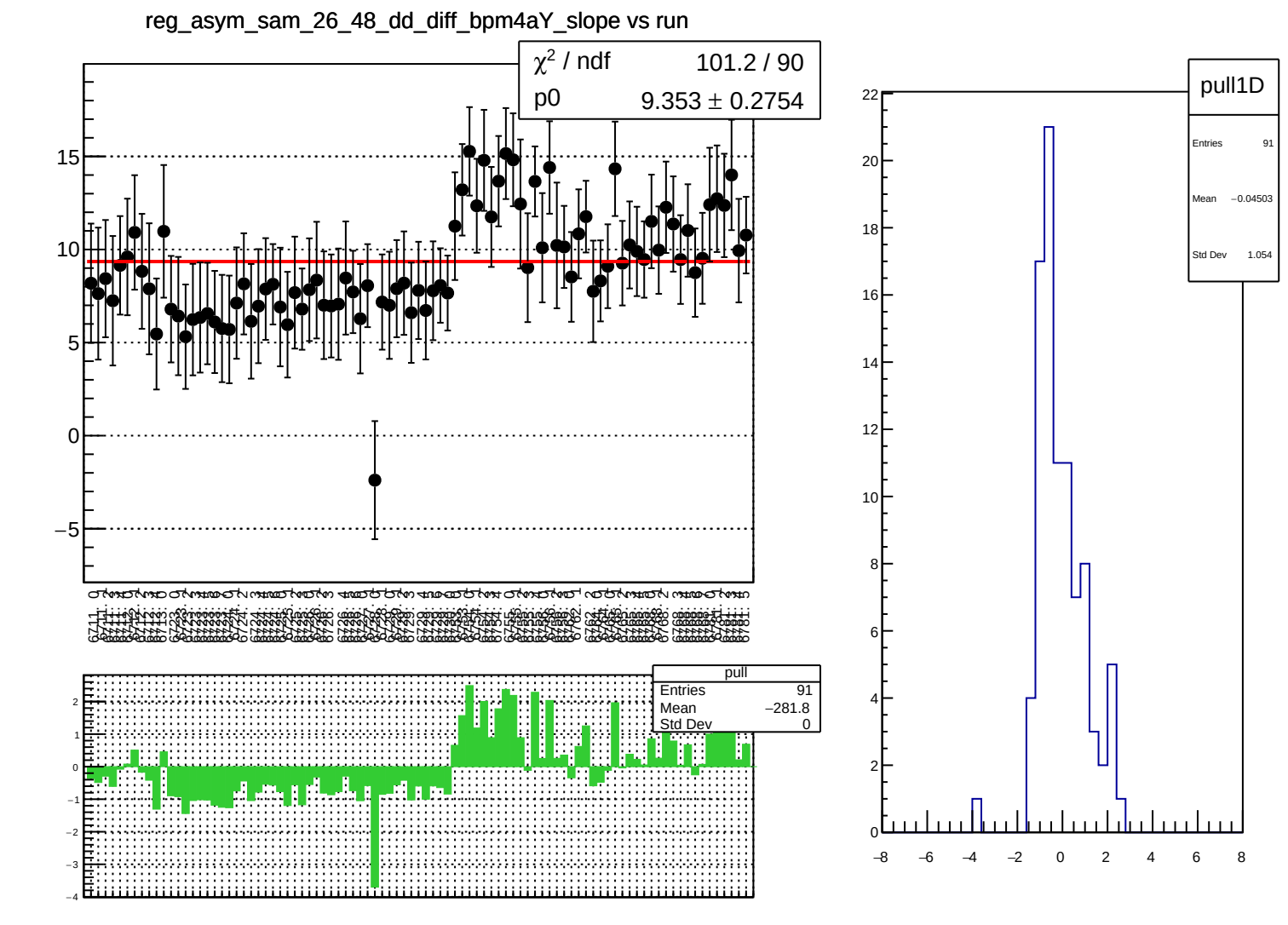

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 18 / 90
p0 −18.16 ± 0.7197
pull
Entries 91
Mean 320.2
Std Dev 0

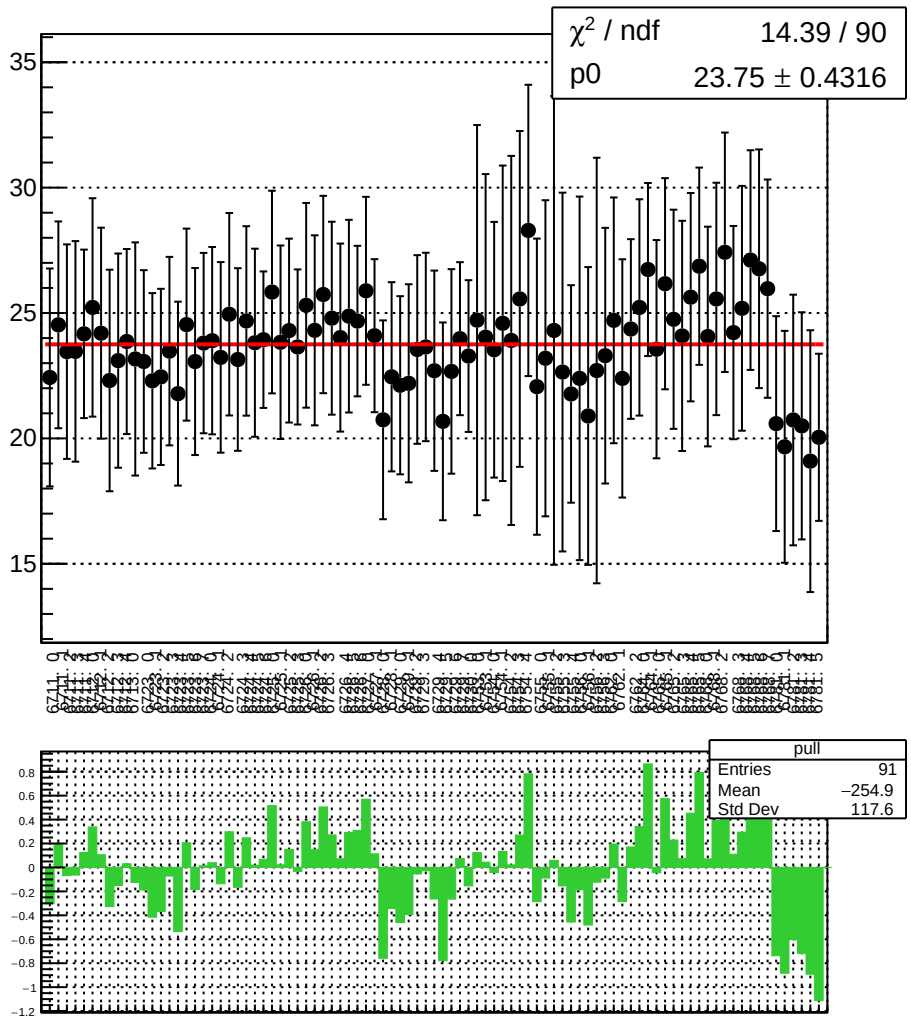

pull1D
Entries 91
Mean 0.01848
Std Dev 0.4444

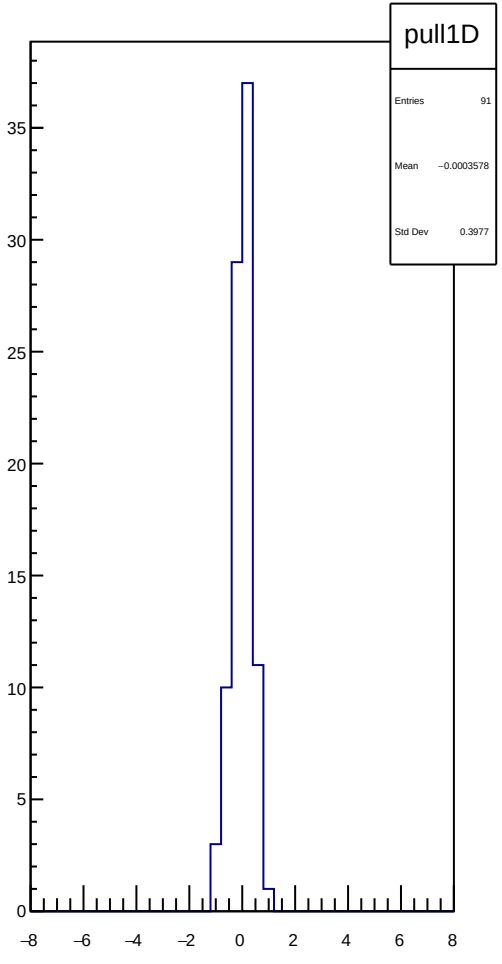

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 6.647 / 90
p0 0.2904 ± 0.04141
pull
Entries 91
Mean −5585
Std Dev 0
pull1D
Entries 91
Mean −0.0001083
Std Dev 0.2703

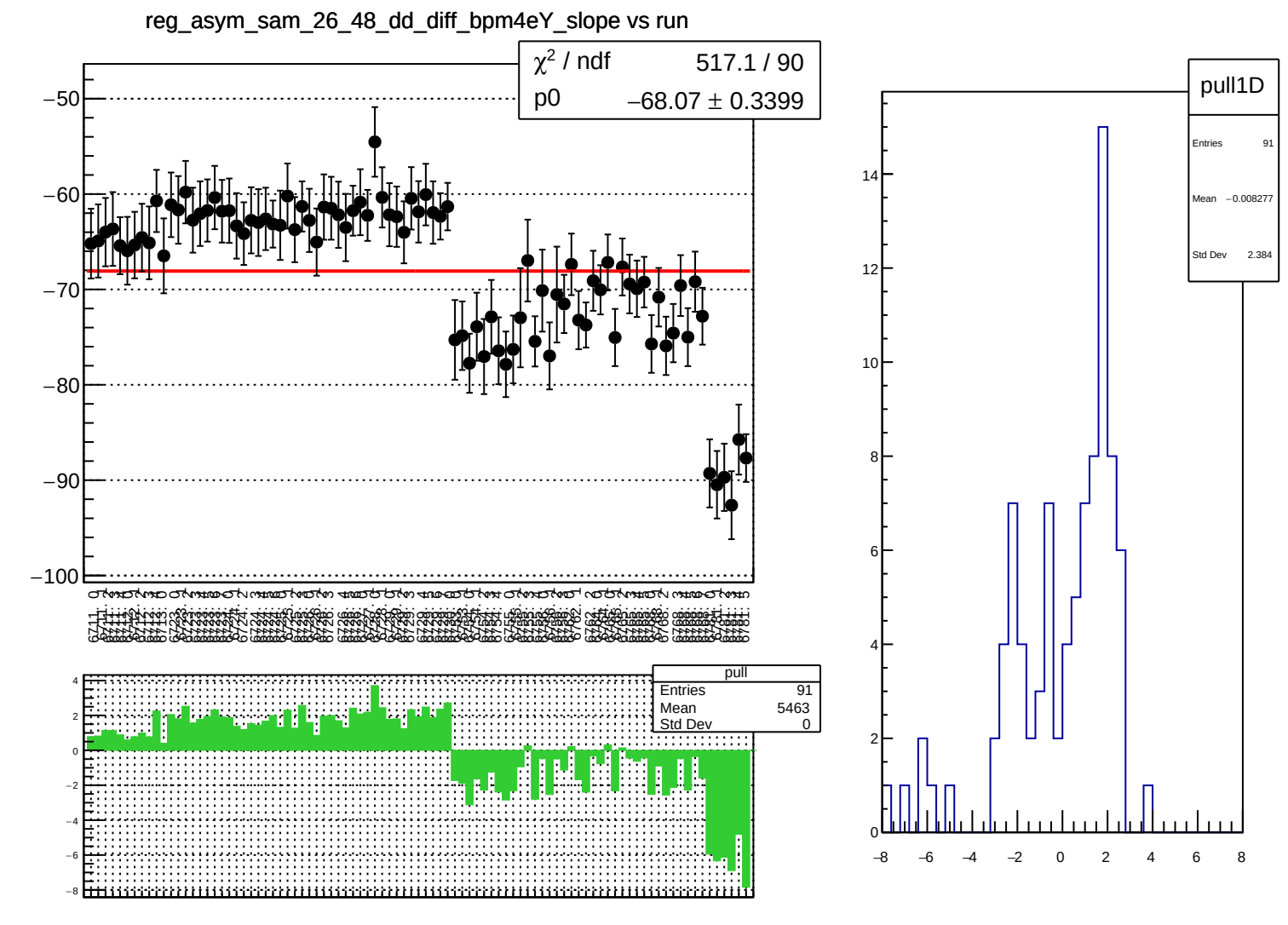

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 30.91 / 90
p0 1.961 ± 0.4484
pull
Entries 91
Mean 260.5
Std Dev 0

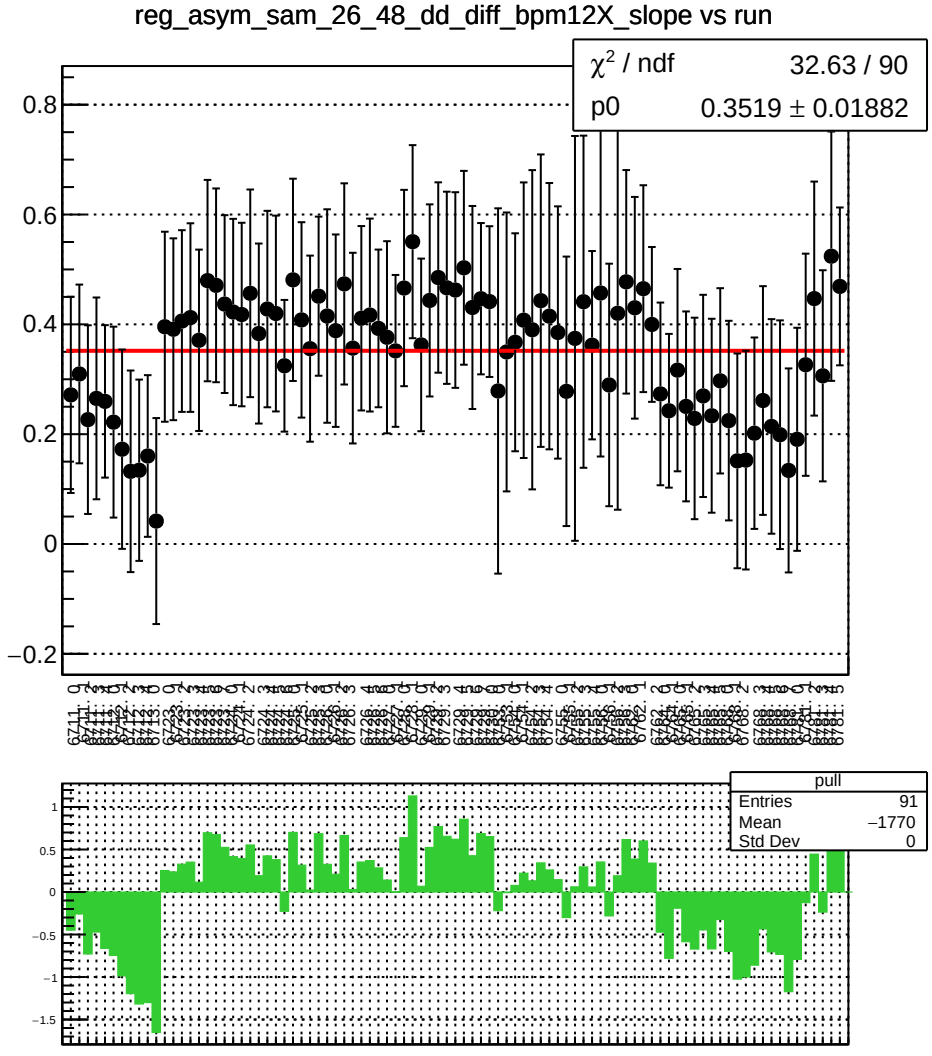

pull1D
Entries 91
Mean −0.05227
Std Dev 0.5805

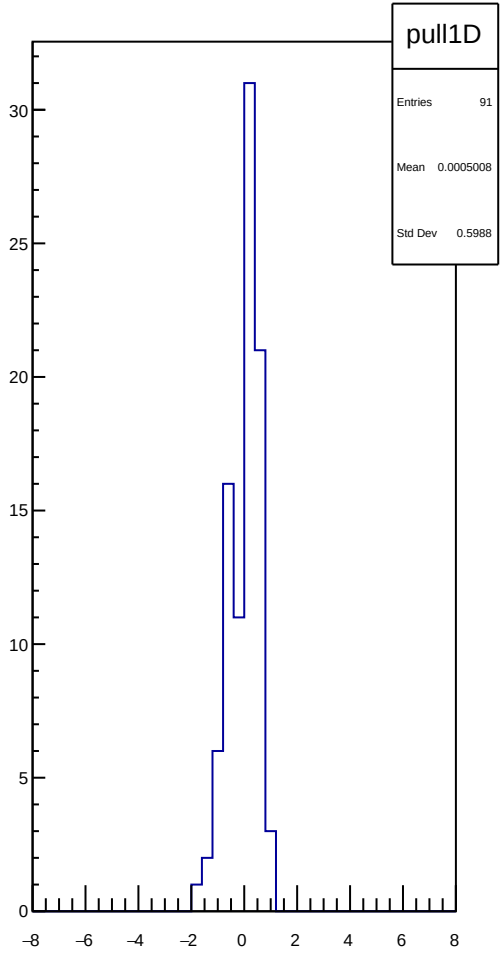

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 101.2 / 90
p0 9.353 ± 0.2754
pull
Entries 91
Mean −281.8
Std Dev 0
pull1D
Entries 91
Mean −0.04503
Std Dev 1.054

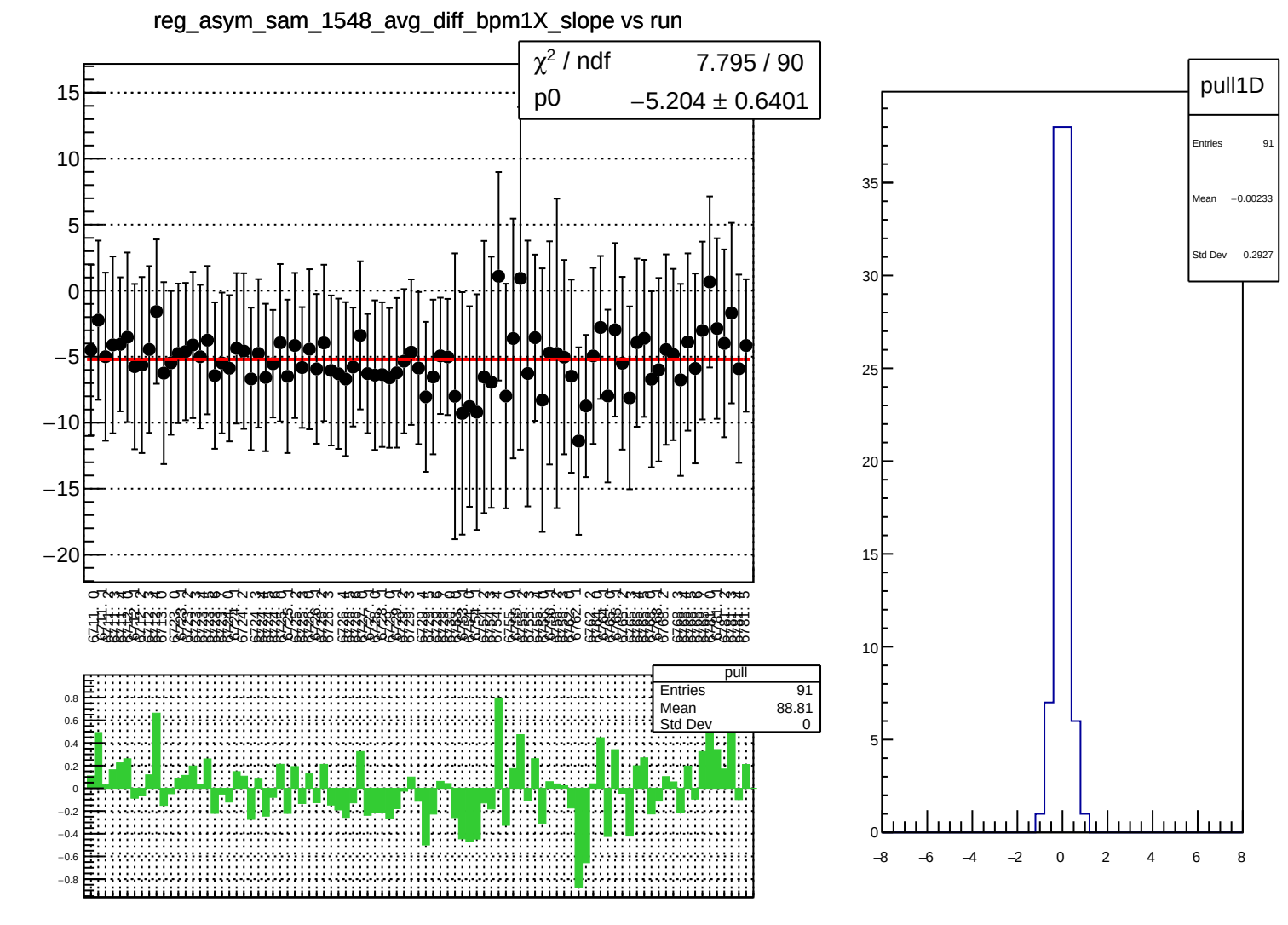

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.39 / 90
p0 23.75 ± 0.4316
pull
Entries 91
Mean −254.9
Std Dev 117.6

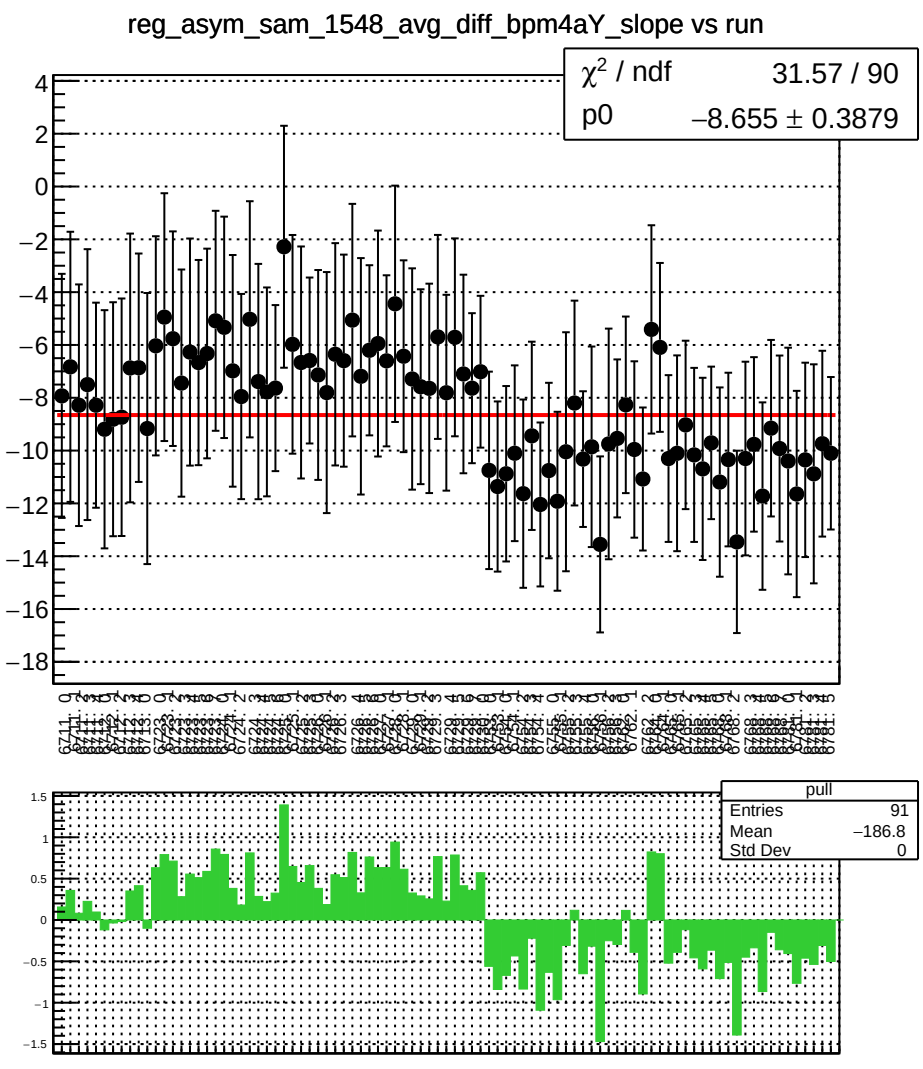

pull1D
Entries 91
Mean −0.0003578
Std Dev 0.3977

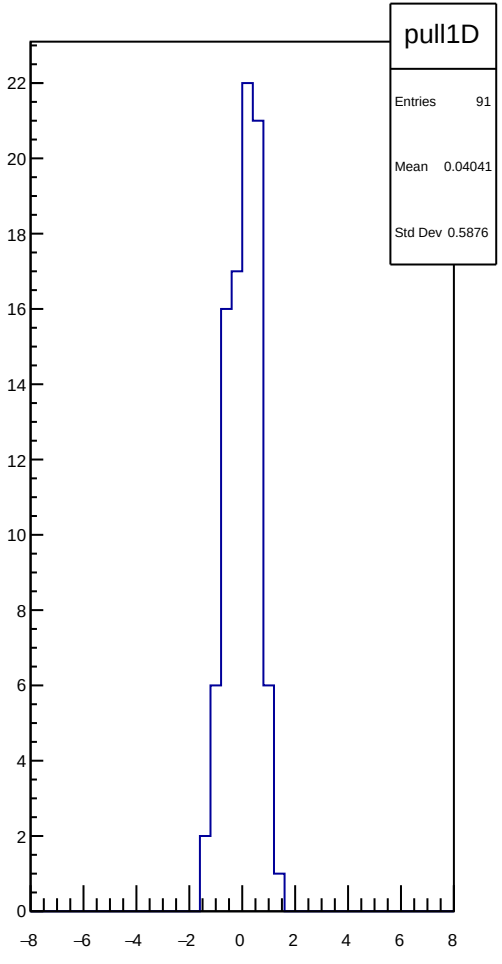

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 517.1 / 90
p0 −68.07 ± 0.3399
pull
Entries 91
Mean 5463
Std Dev 0
pull1D
Entries 91
Mean −0.008277
Std Dev 2.384

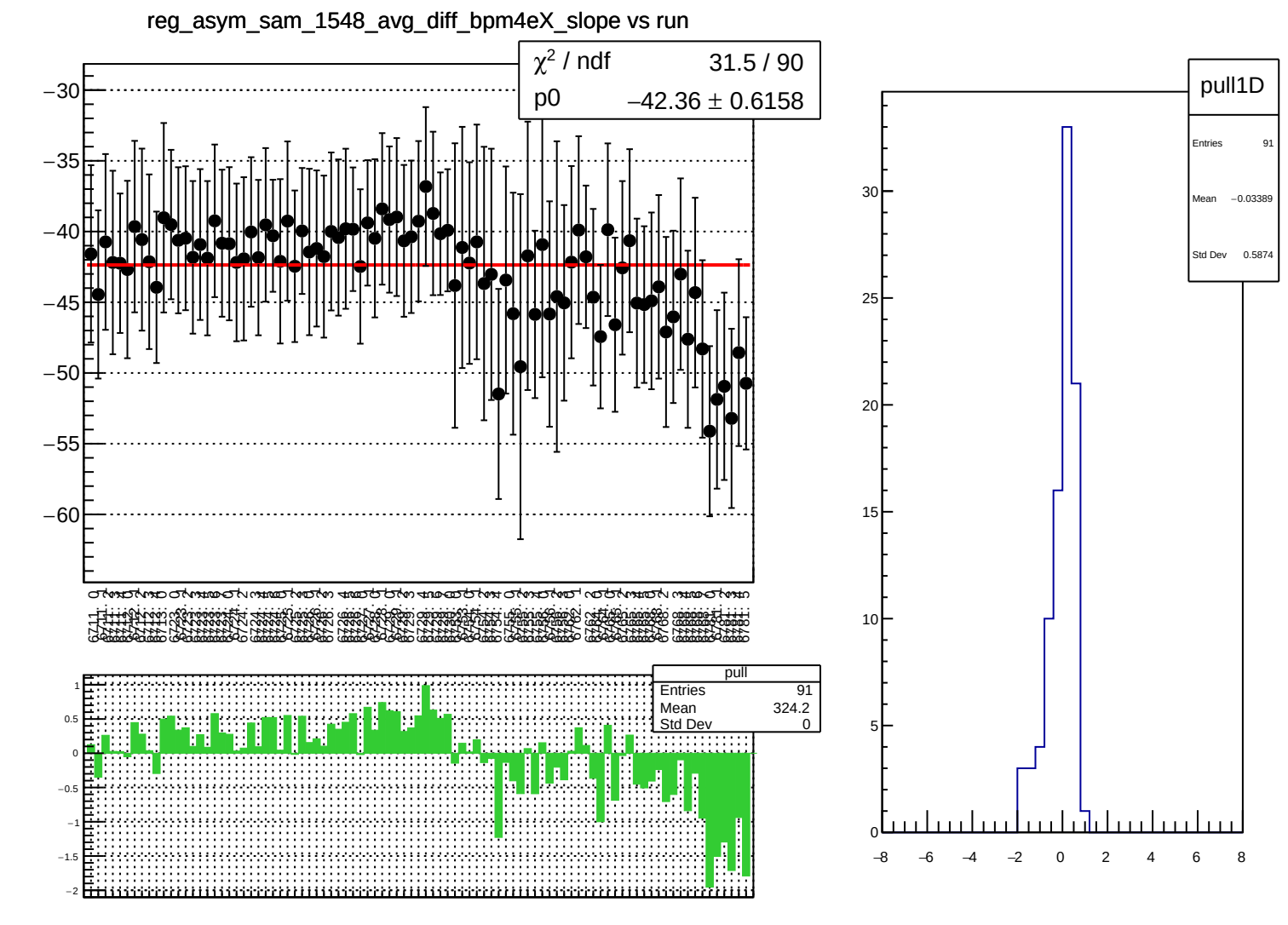

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 32.63 / 90
p0 0.3519 ± 0.01882
pull
Entries 91
Mean −1770
Std Dev 0

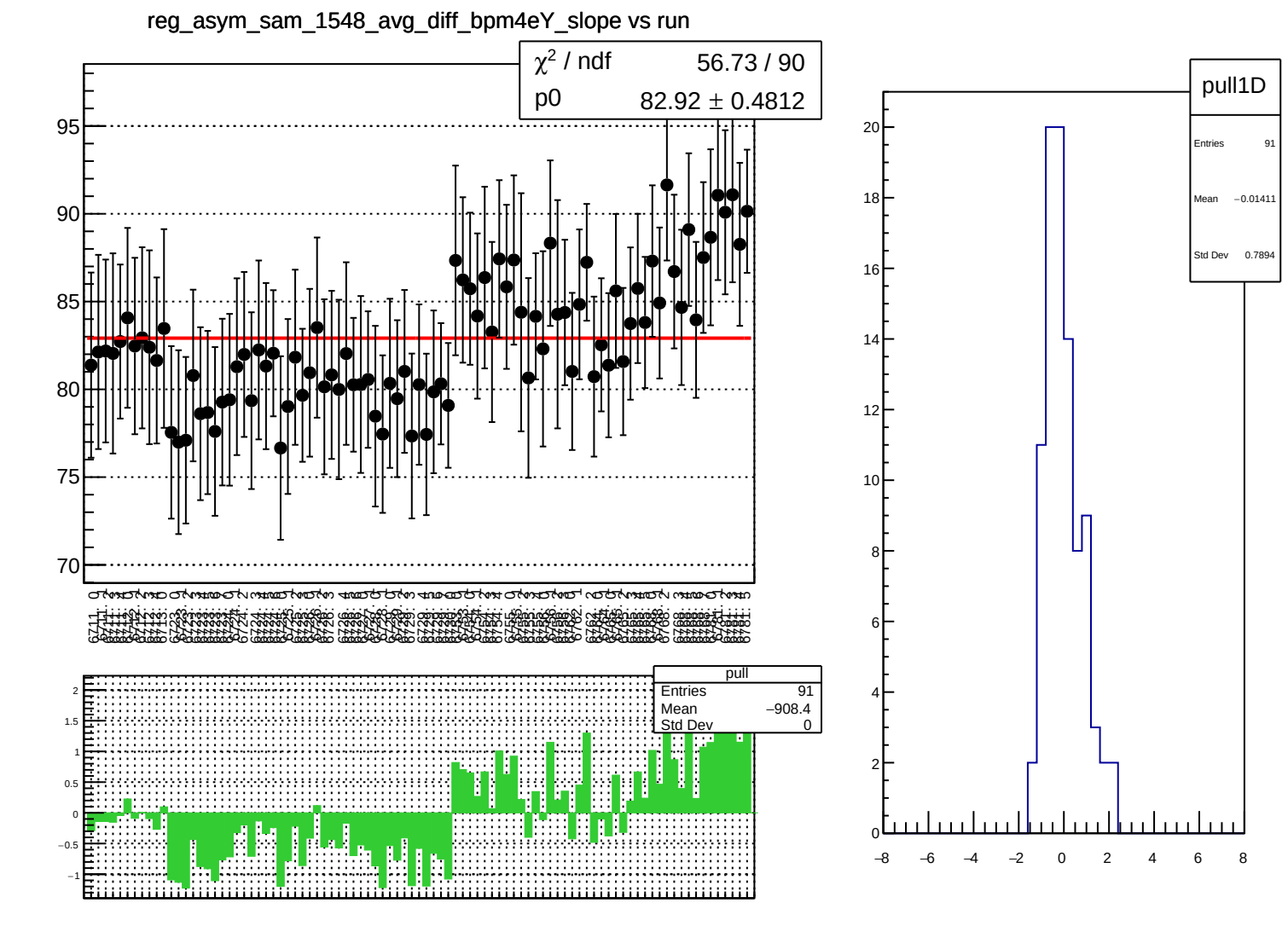

pull1D
Entries 91
Mean 0.0005008
Std Dev 0.5988

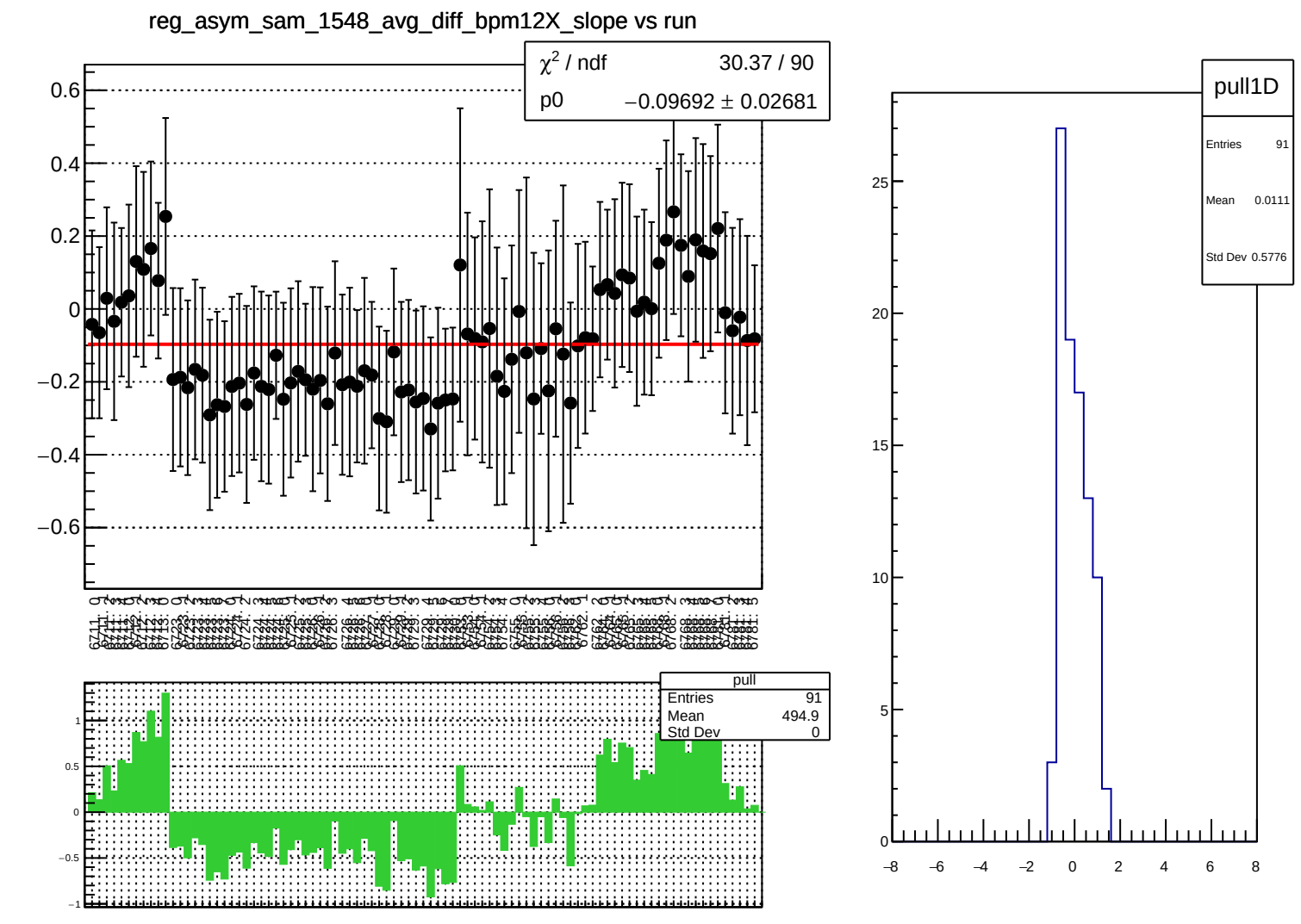

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 7.795 / 90
p0 −5.204 ± 0.6401
pull
Entries 91
Mean 88.81
Std Dev 0
pull1D
Entries 91
Mean −0.00233
Std Dev 0.2927

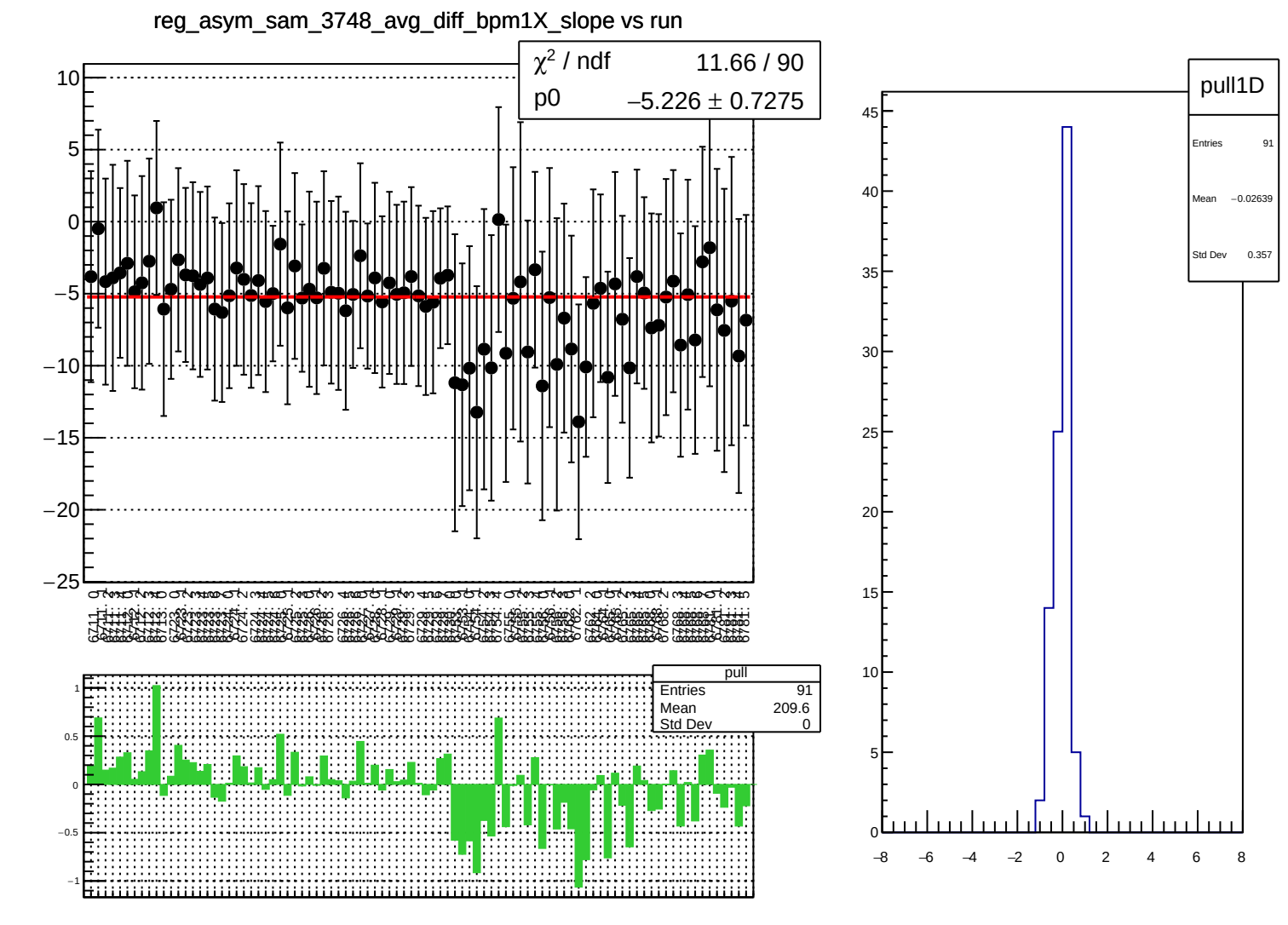

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.57 / 90
p0 −8.655 ± 0.3879
pull
Entries 91
Mean −186.8
Std Dev 0

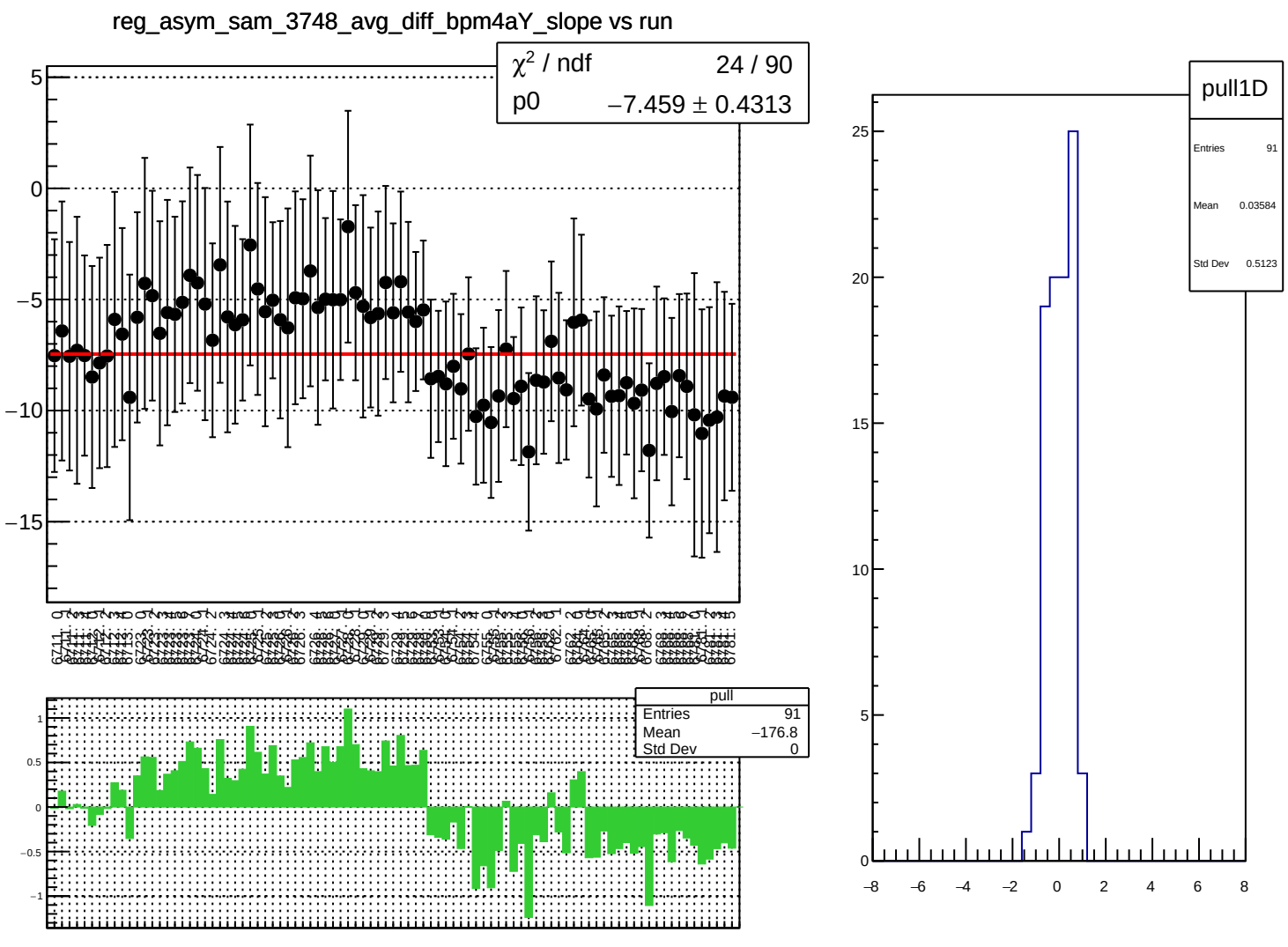

pull1D
Entries 91
Mean 0.04041
Std Dev 0.5876

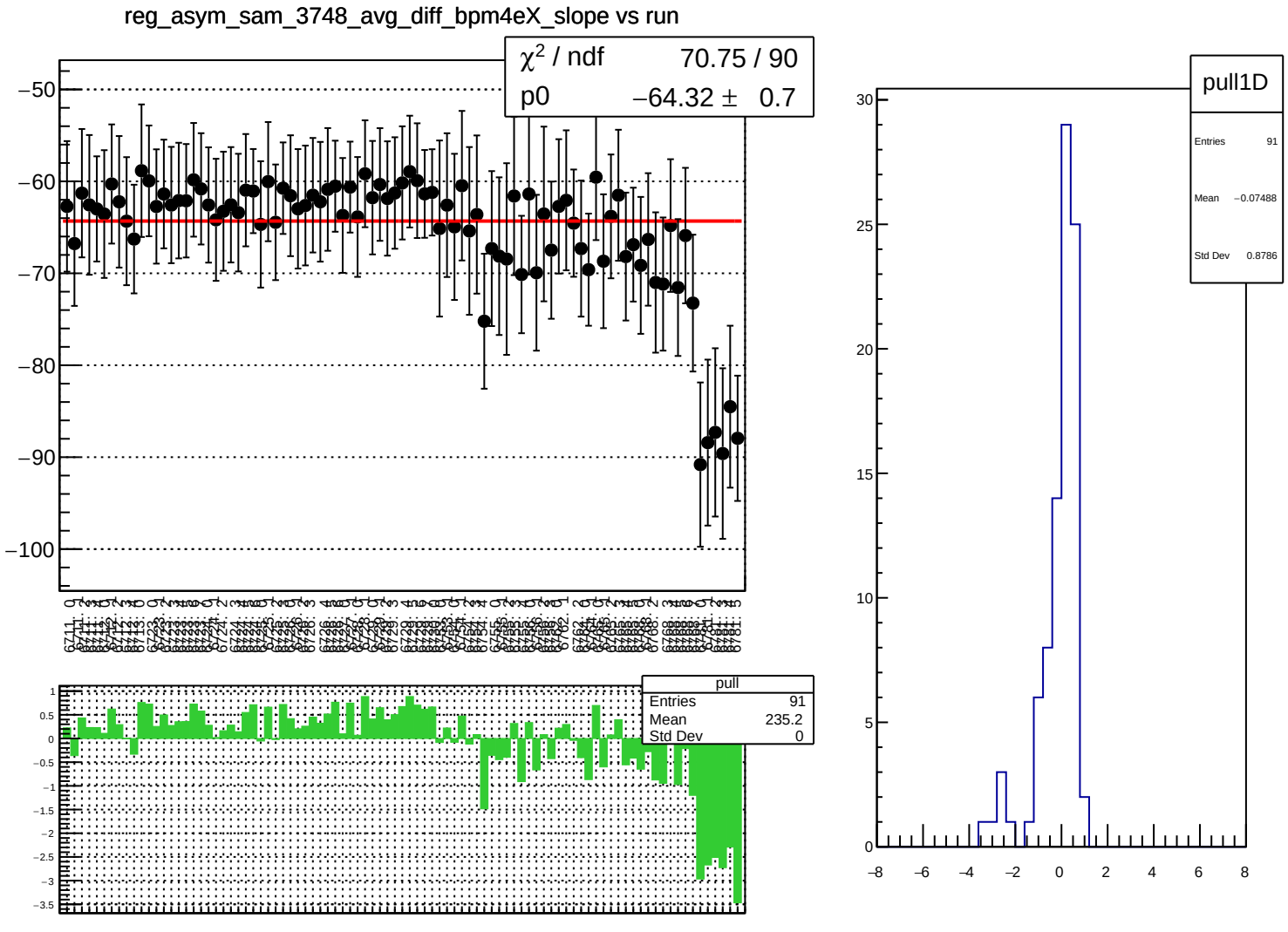

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.5 / 90
p0 −42.36 ± 0.6158
pull
Entries 91
Mean 324.2
Std Dev 0
pull1D
Entries 91
Mean −0.03389
Std Dev 0.5874

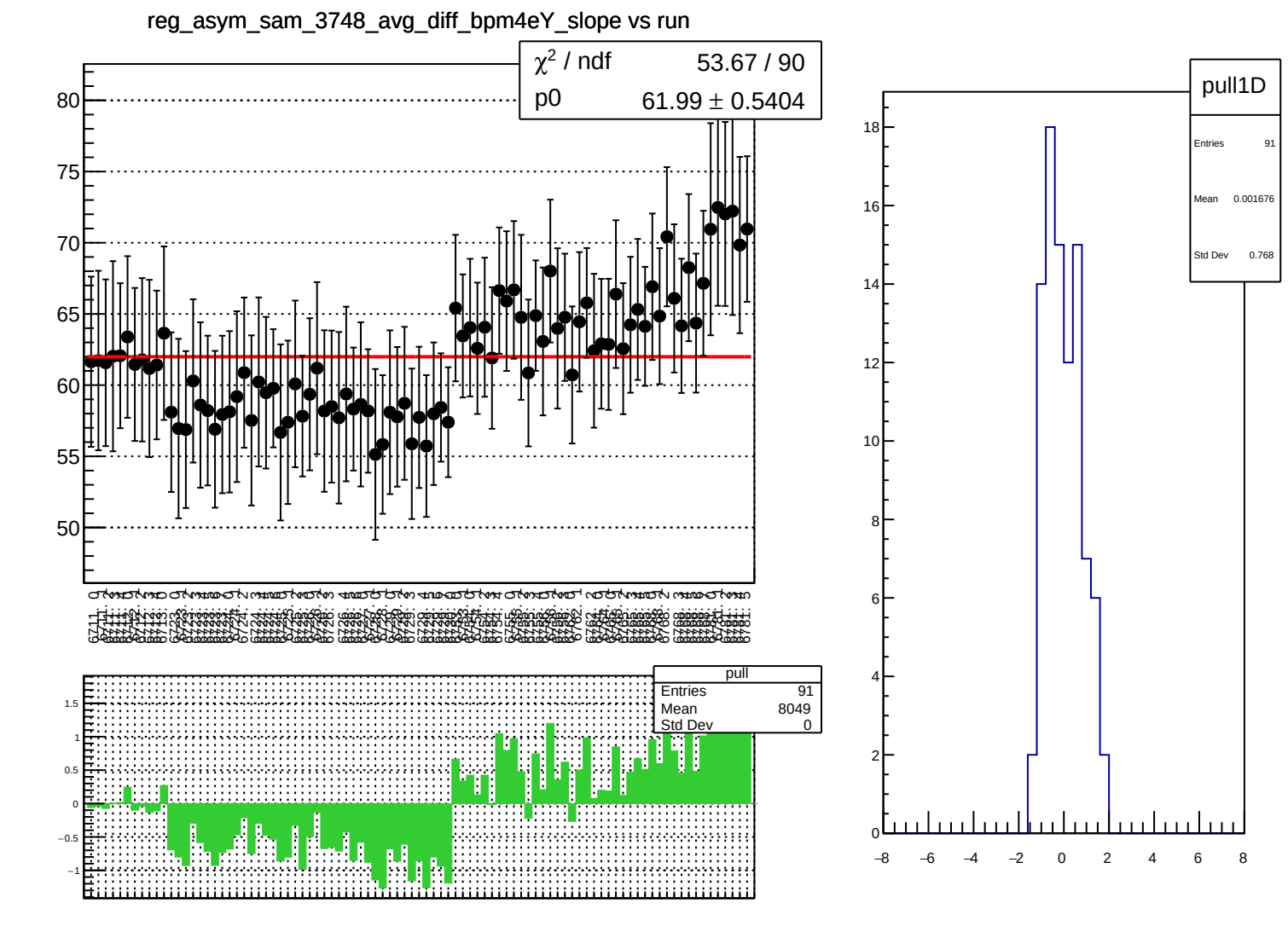

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 56.73 / 90
p0 82.92 ± 0.4812
pull
Entries 91
Mean −908.4
Std Dev 0
pull1D
Entries 91
Mean −0.01411
Std Dev 0.7894

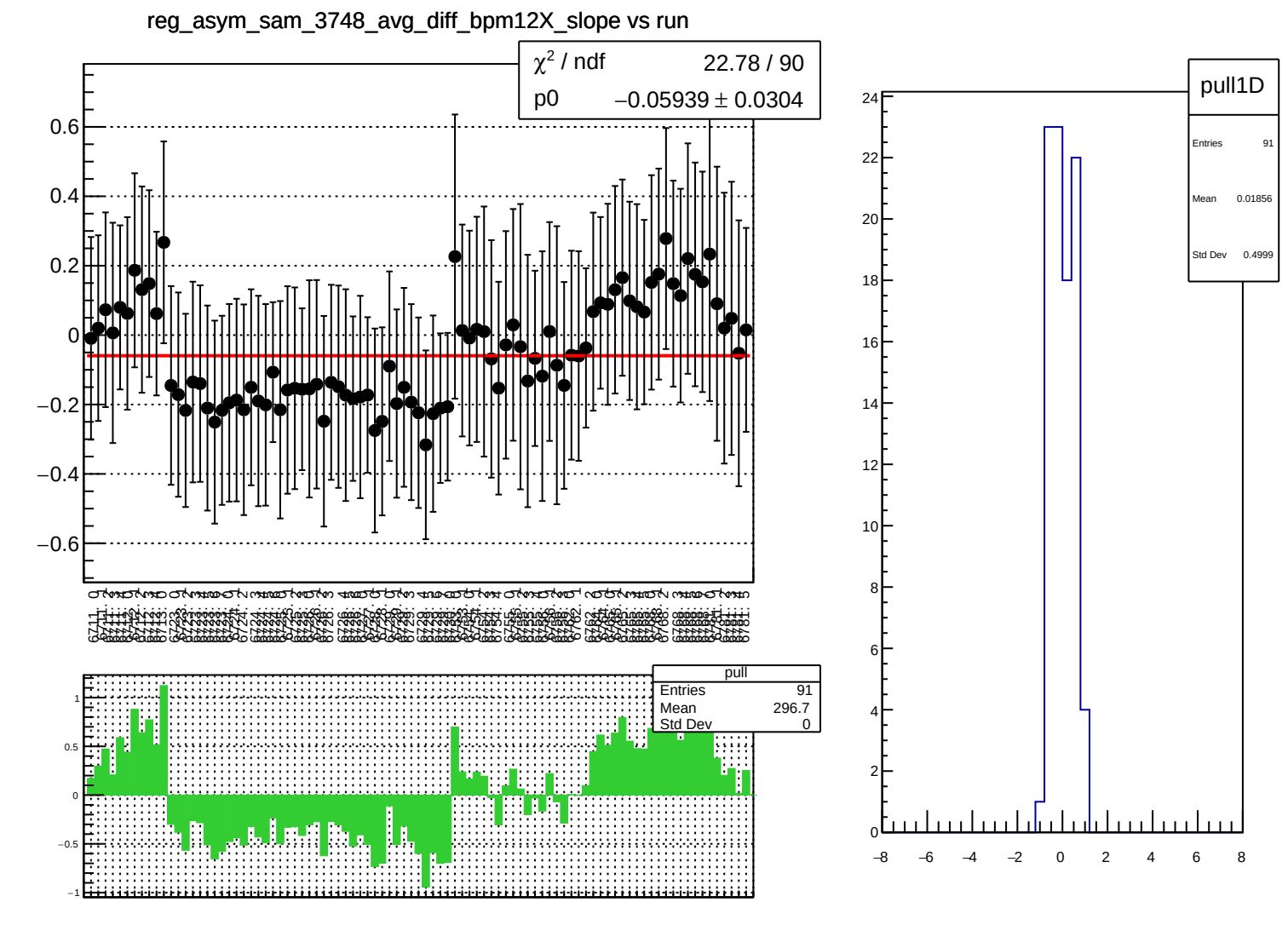

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 30.37 / 90
p0 −0.09692 ± 0.02681
pull
Entries 91
Mean 494.9
Std Dev 0
pull1D
Entries 91
Mean 0.0111
Std Dev 0.5776

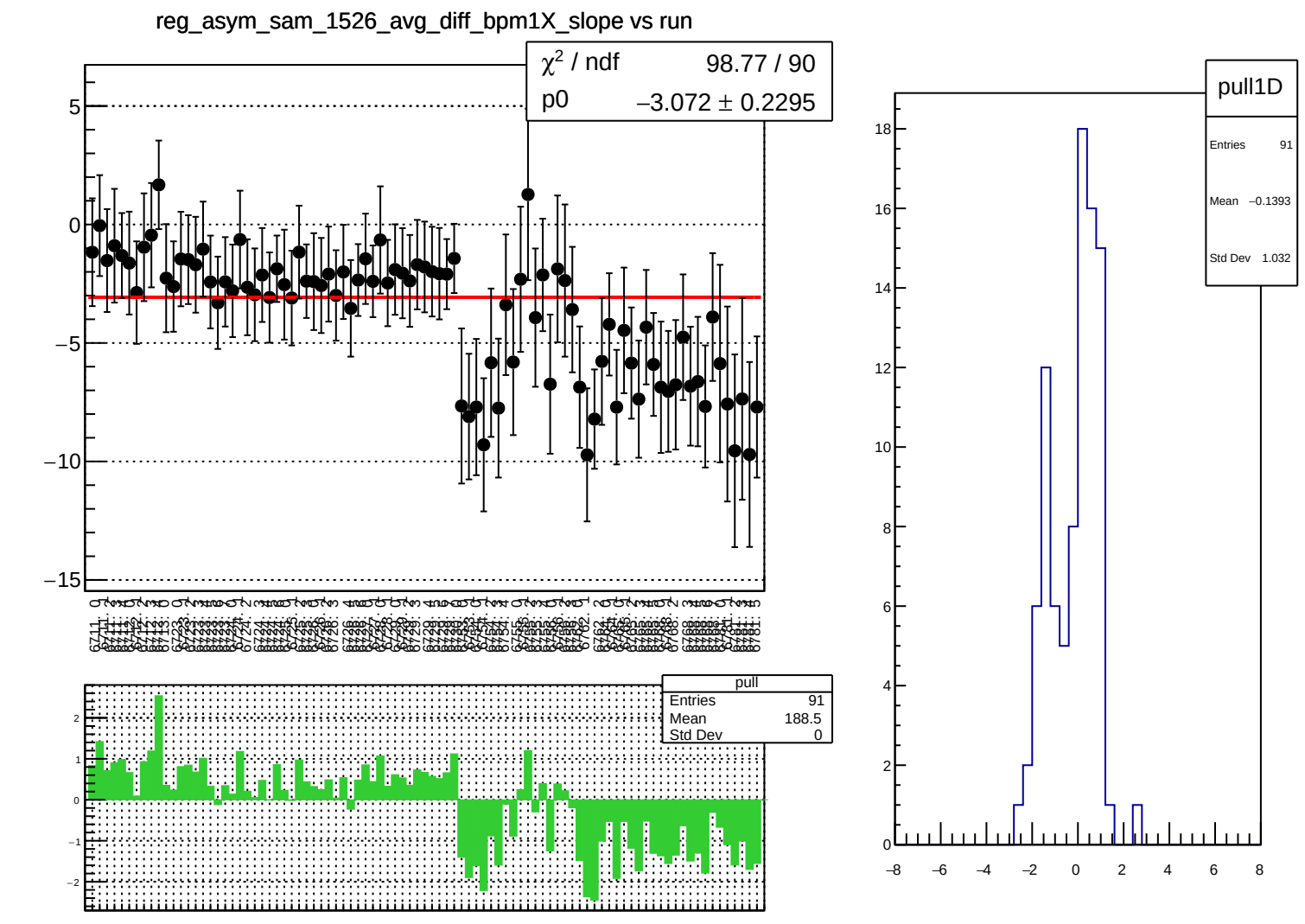

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 11.66 / 90
p0 −5.226 ± 0.7275
pull
Entries 91
Mean 209.6
Std Dev 0
pull1D
Entries 91
Mean −0.02639
Std Dev 0.357

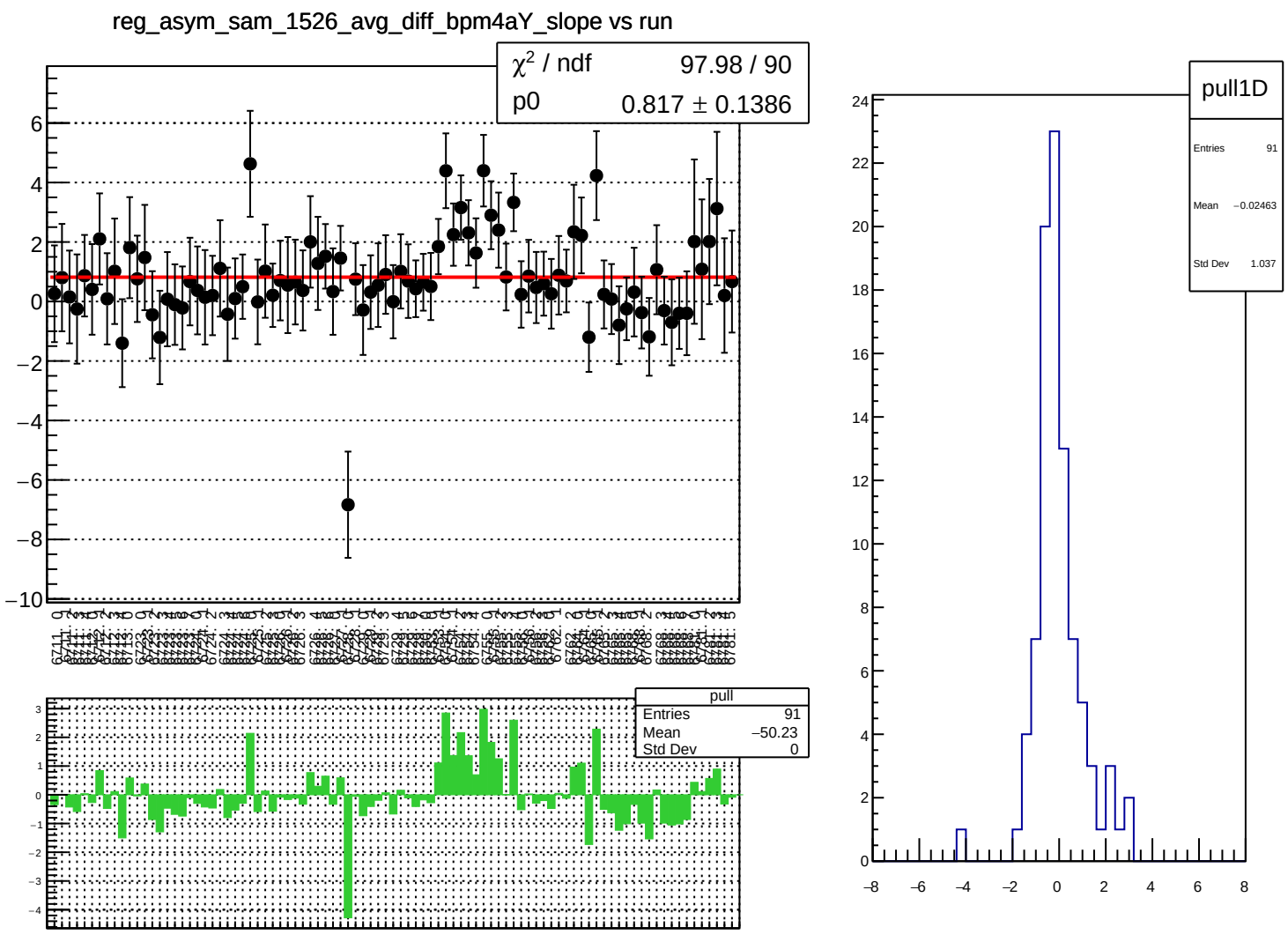

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 24 / 90
p0 −7.459 ± 0.4313
pull
Entries 91
Mean −176.8
Std Dev 0
pull1D
Entries 91
Mean 0.03584
Std Dev 0.5123

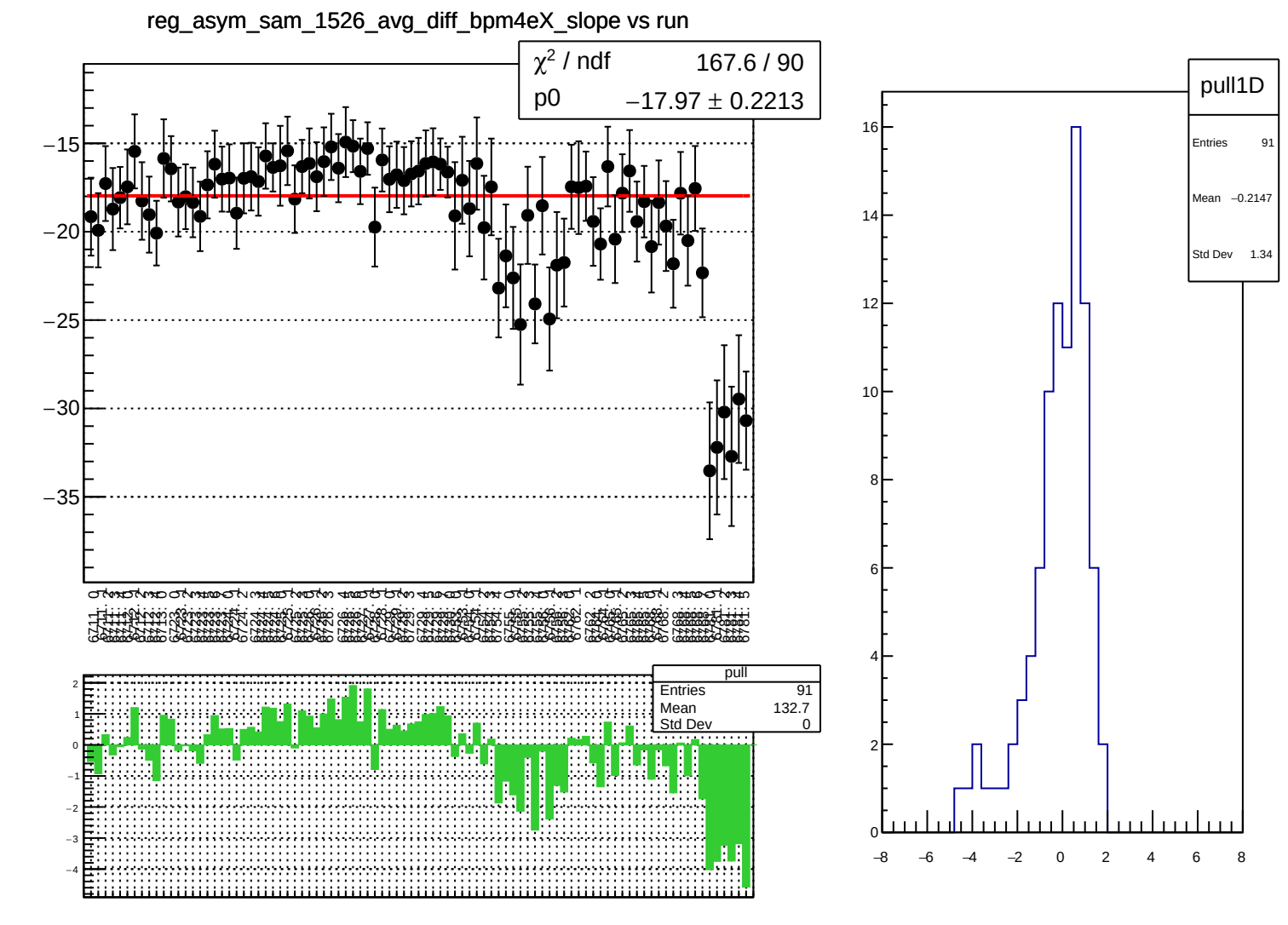

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 70.75 / 90
p0 −64.32 ± 0.7
pull
Entries 91
Mean 235.2
Std Dev 0
pull1D
Entries 91
Mean −0.07488
Std Dev 0.8786

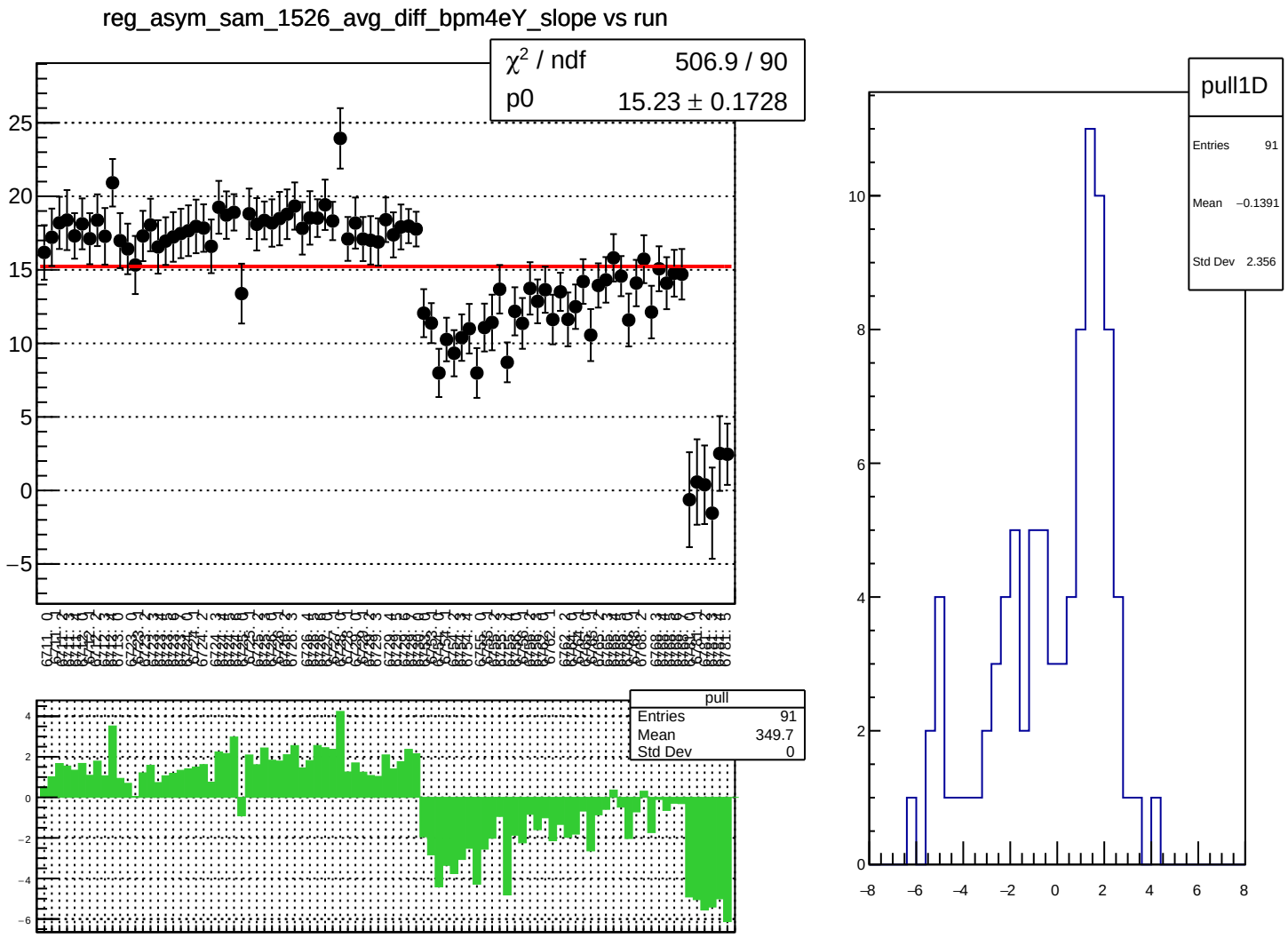

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 53.67 / 90
p0 61.99 ± 0.5404
pull
Entries 91
Mean 8049
Std Dev 0
pull1D
Entries 91
Mean 0.001676
Std Dev 0.768

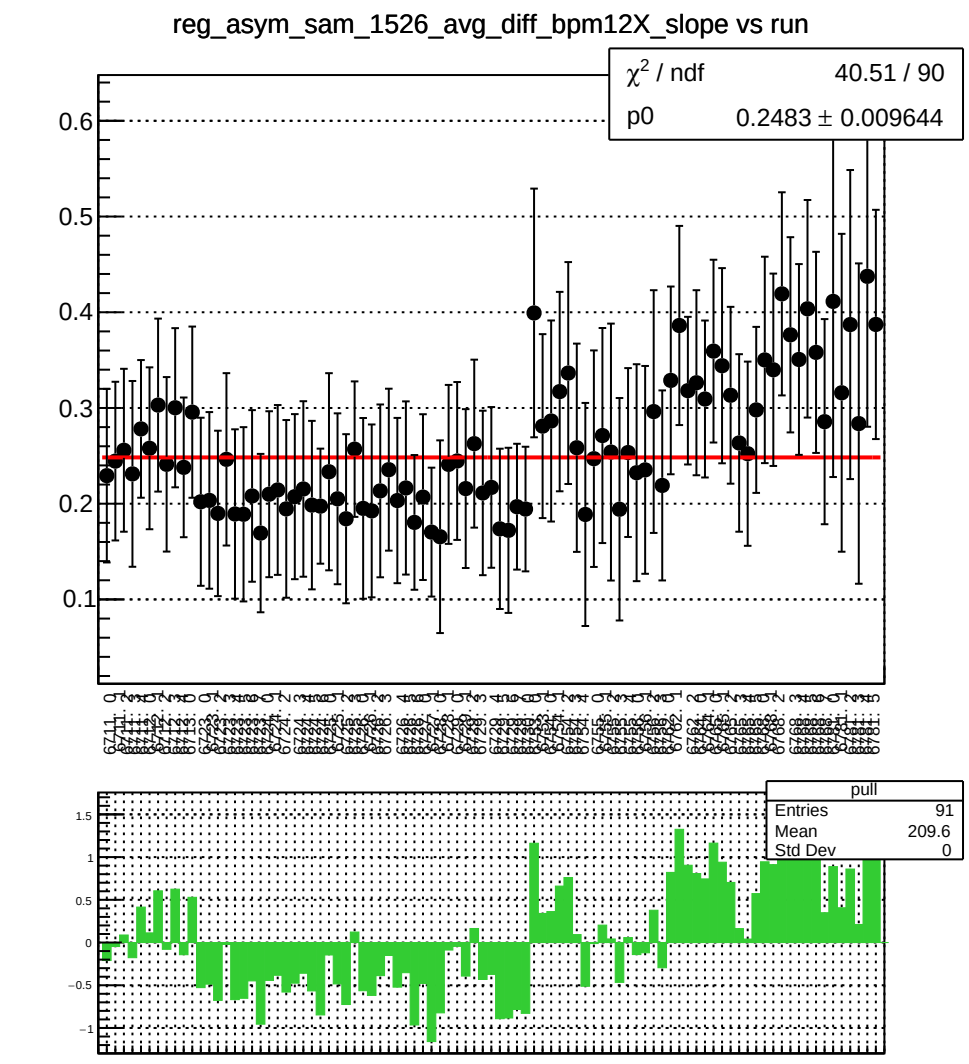

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 22.78 / 90
p0 −0.05939 ± 0.0304
pull
Entries 91
Mean 296.7
Std Dev 0
pull1D
Entries 91
Mean 0.01856
Std Dev 0.4999

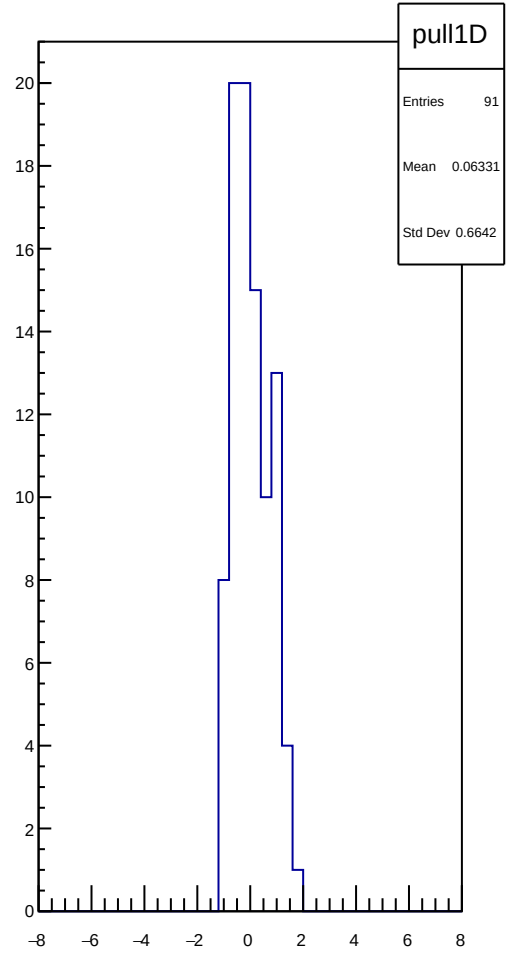

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 98.77 / 90
p0 −3.072 ± 0.2295
pull
Entries 91
Mean 188.5
Std Dev 0
pull1D
Entries 91
Mean −0.1393
Std Dev 1.032

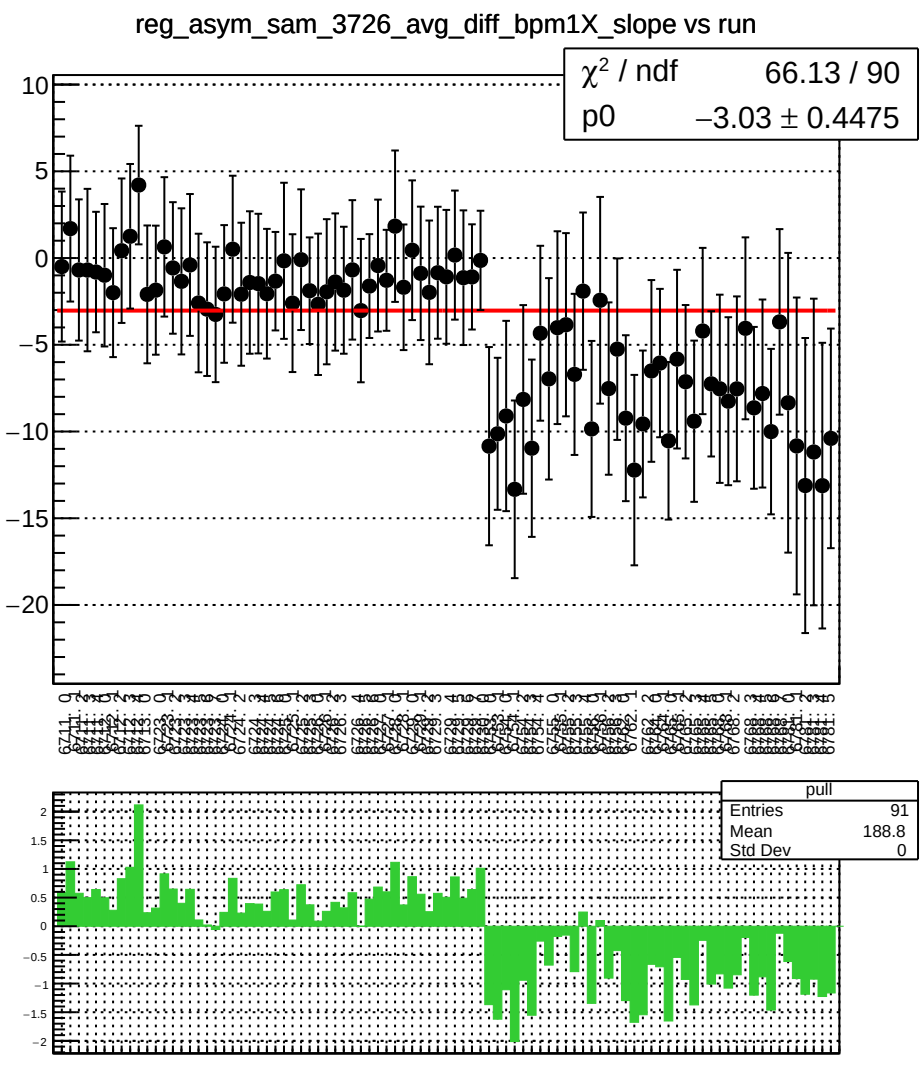

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 97.98 / 90
p0 0.817 ± 0.1386
pull
Entries 91
Mean −50.23
Std Dev 0
pull1D
Entries 91
Mean −0.02463
Std Dev 1.037

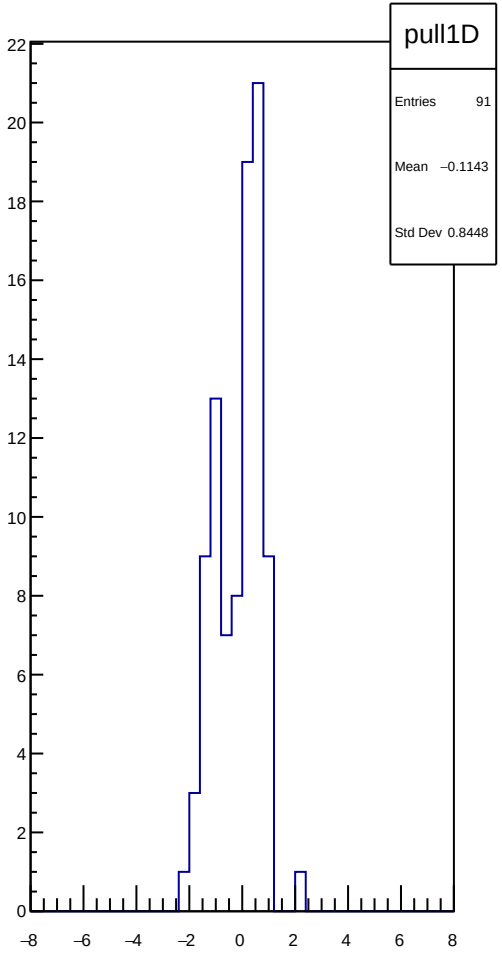

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 167.6 / 90
p0 −17.97 ± 0.2213
−15
−20
−25
−30
−35
pull
Entries 91
Mean 132.7
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 91
Mean −0.2147
Std Dev 1.34
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

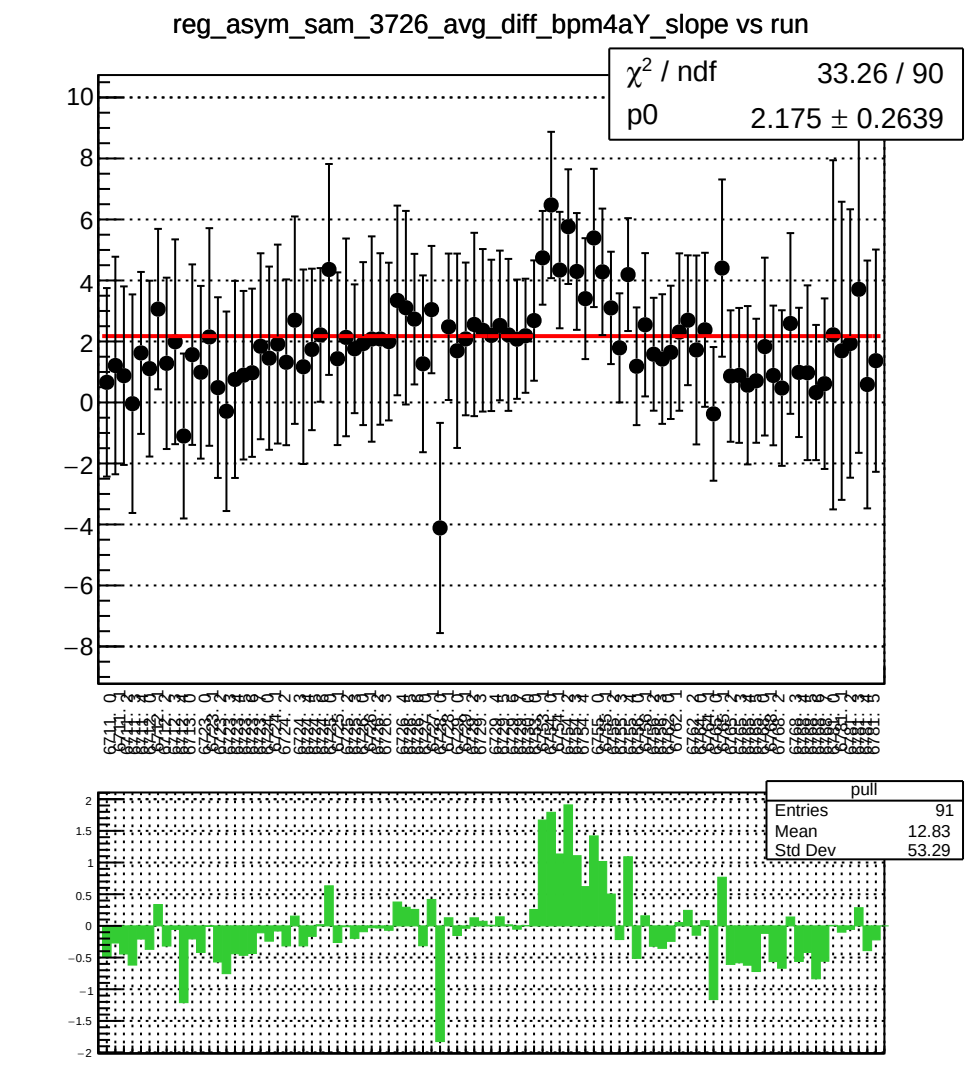

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 506.9 / 90
p0 15.23 ± 0.1728
pull
Entries 91
Mean 349.7
Std Dev 0
pull1D
Entries 91
Mean −0.1391
Std Dev 2.356

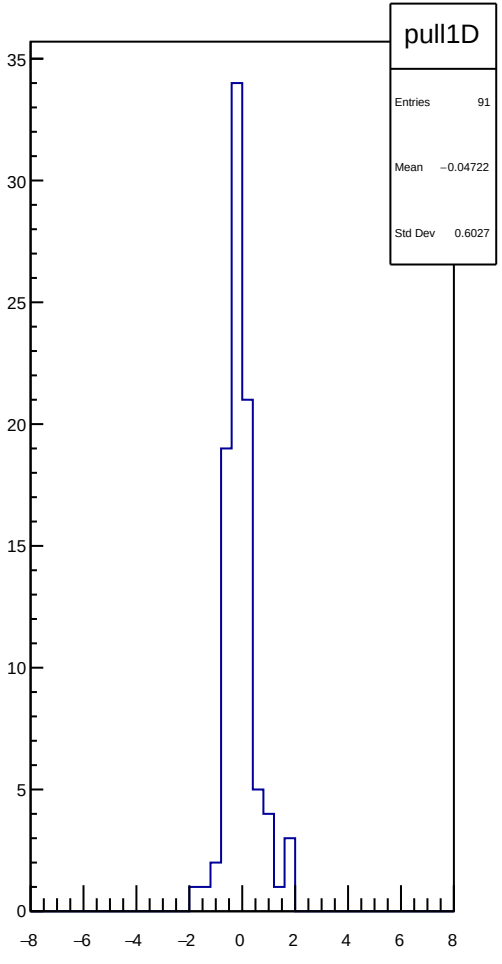

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 40.51 / 90
p0 0.2483 ± 0.009644
pull
Entries 91
Mean 209.6
Std Dev 0

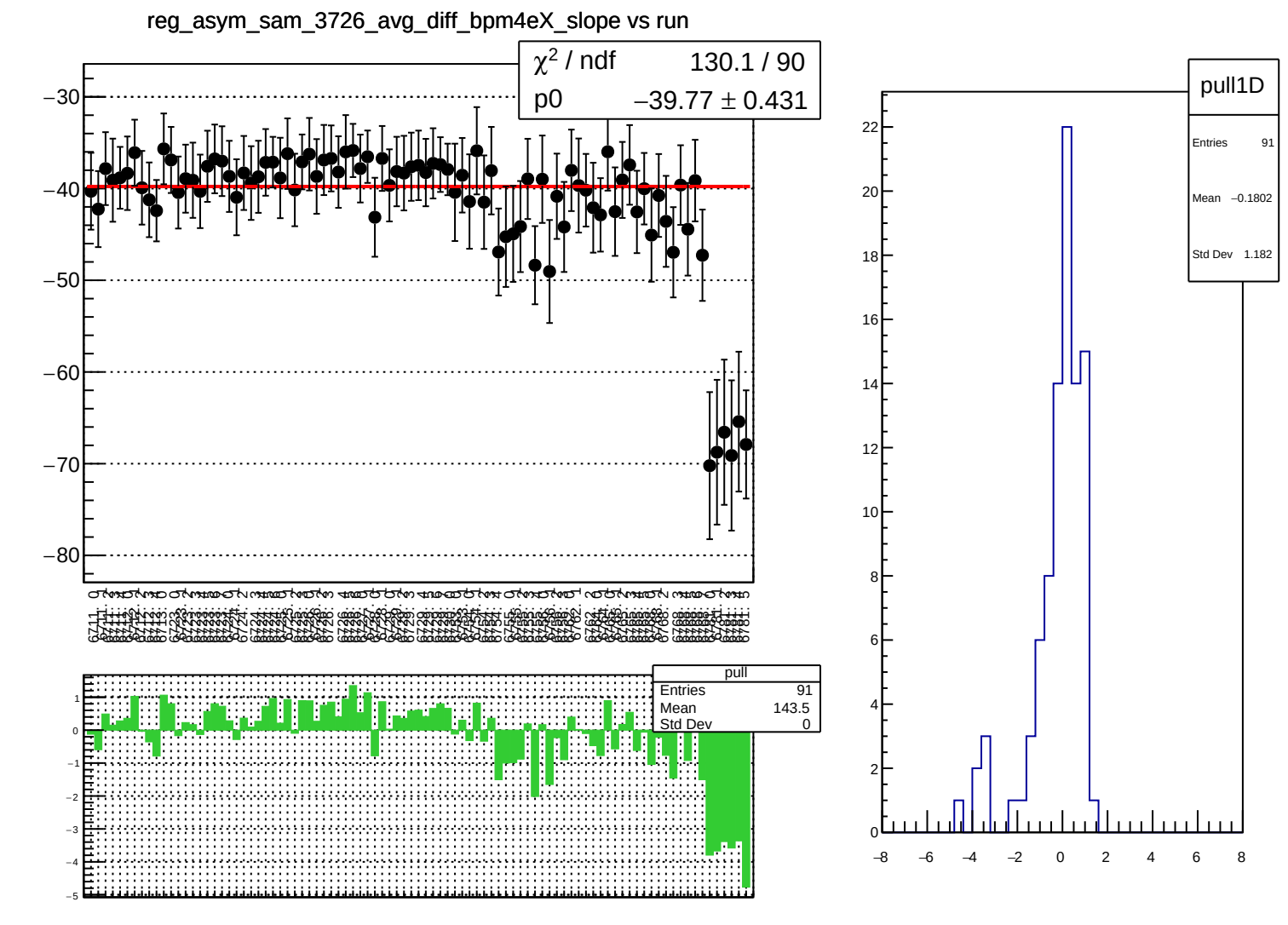

pull1D
Entries 91
Mean 0.06331
Std Dev 0.6642

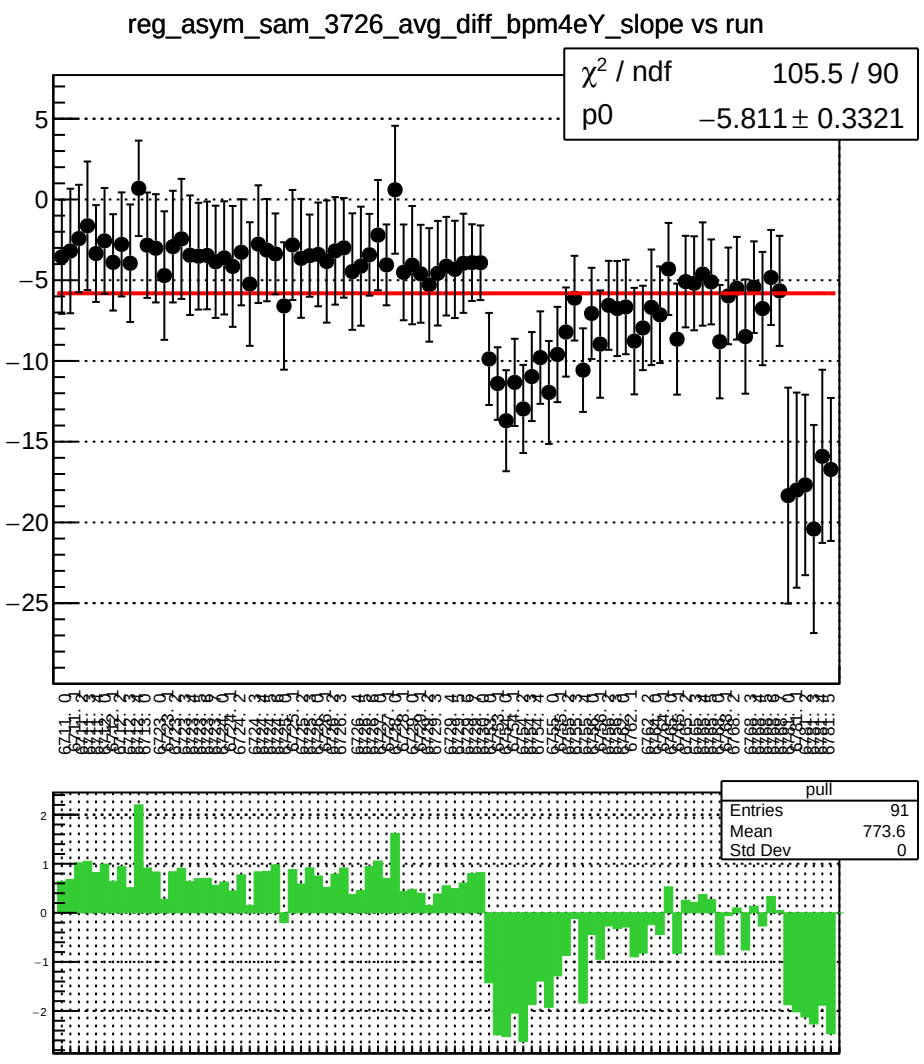

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 66.13 / 90
p0 −3.03 ± 0.4475
pull
Entries 91
Mean 188.8
Std Dev 0

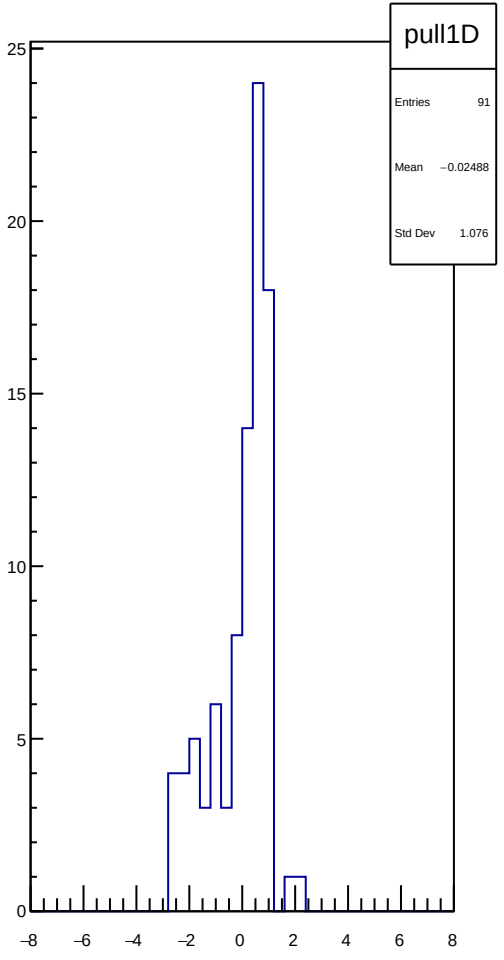

pull1D
Entries 91
Mean −0.1143
Std Dev 0.8448

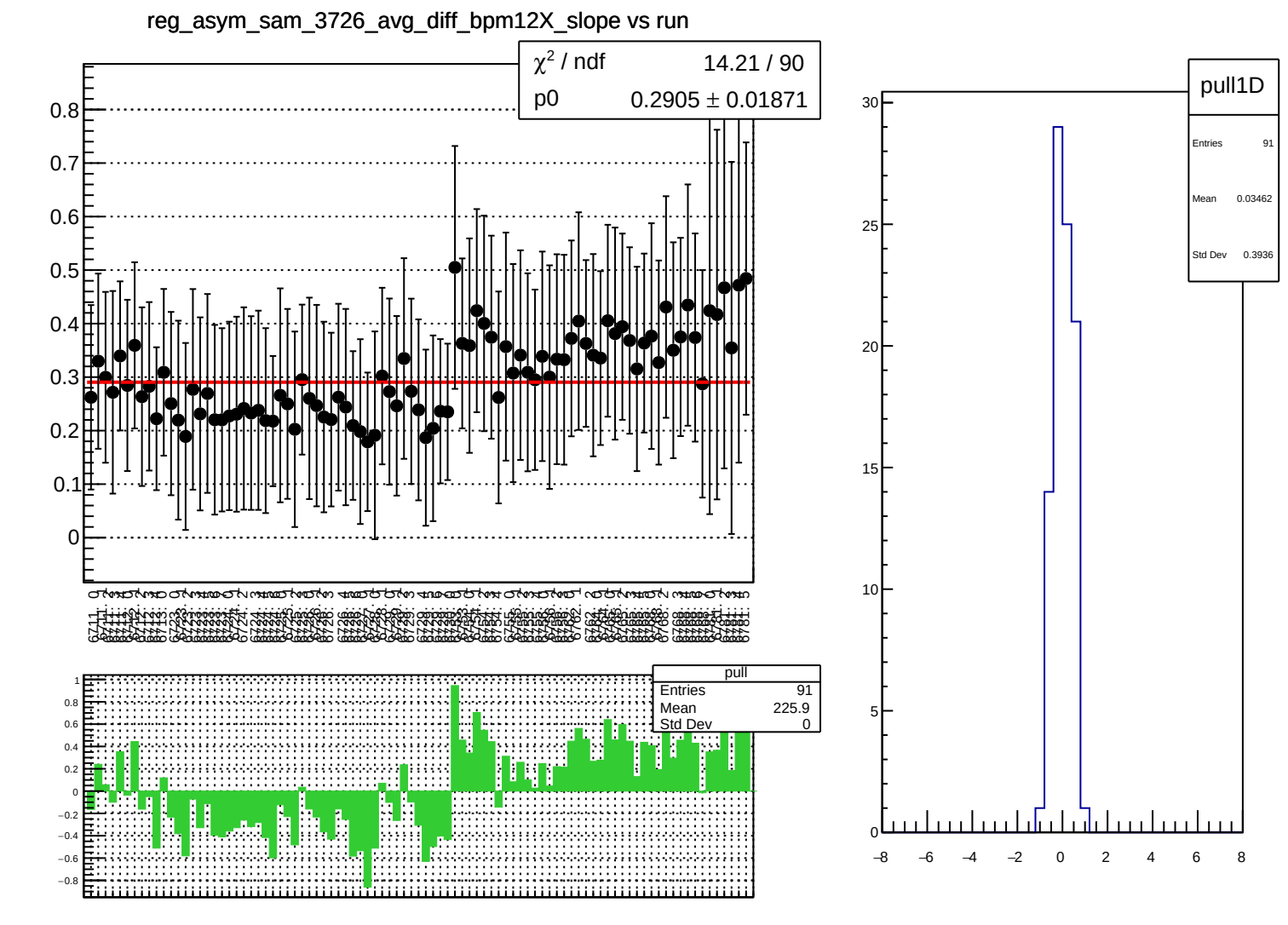

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.26 / 90
p0 2.175 ± 0.2639
pull
Entries 91
Mean 12.83
Std Dev 53.29

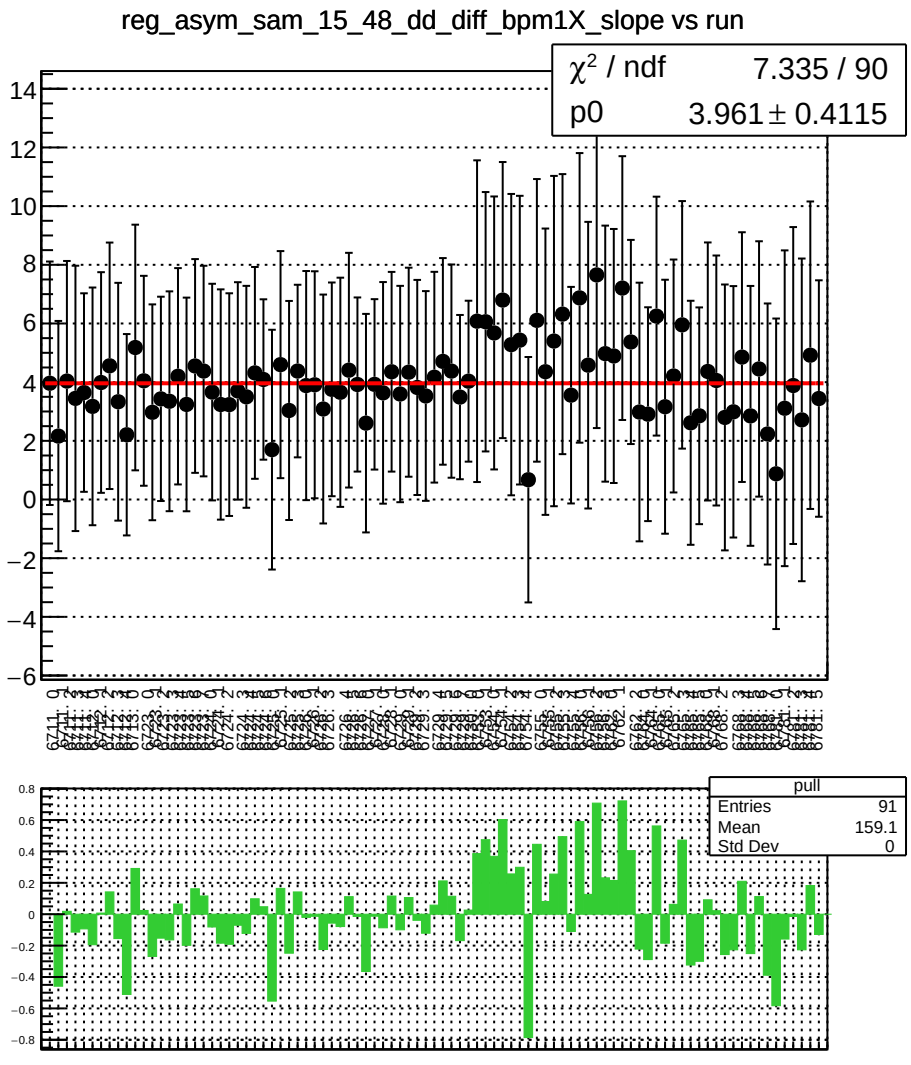

pull1D
Entries 91
Mean −0.04722
Std Dev 0.6027

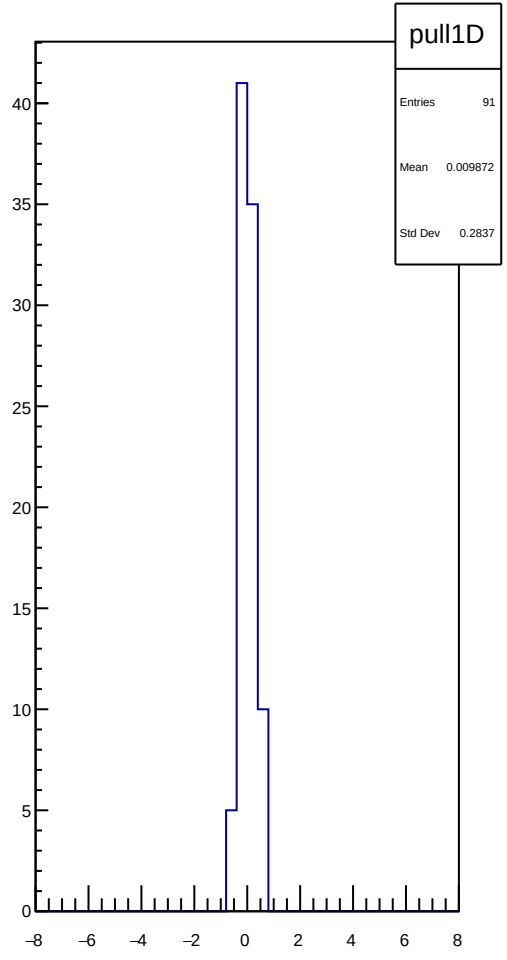

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 130.1 / 90
p0 −39.77 ± 0.431
pull
Entries 91
Mean 143.5
Std Dev 0
pull1D
Entries 91
Mean −0.1802
Std Dev 1.182

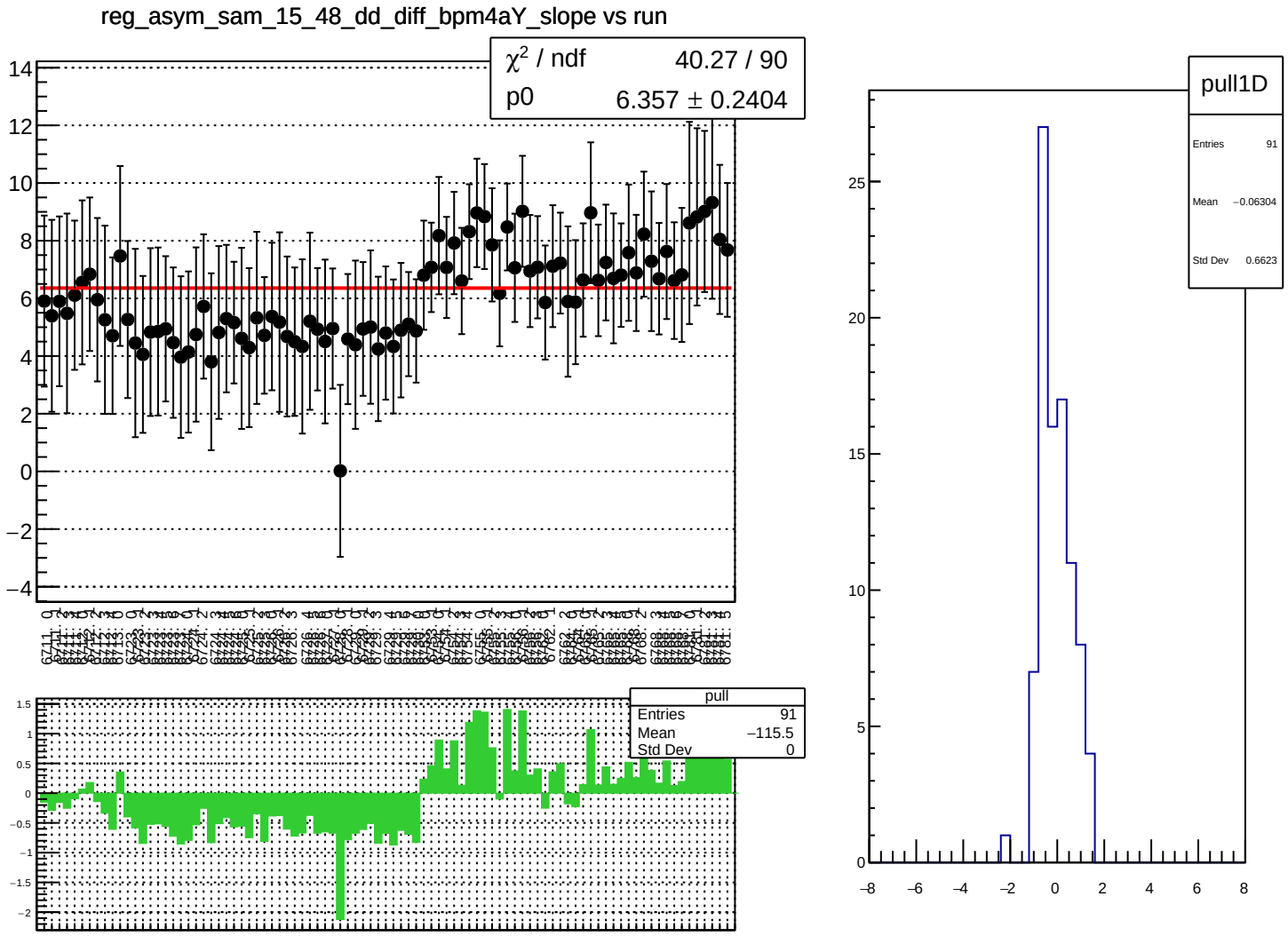

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 105.5 / 90
p0 −5.811 ± 0.3321
pull
Entries 91
Mean 773.6
Std Dev 0

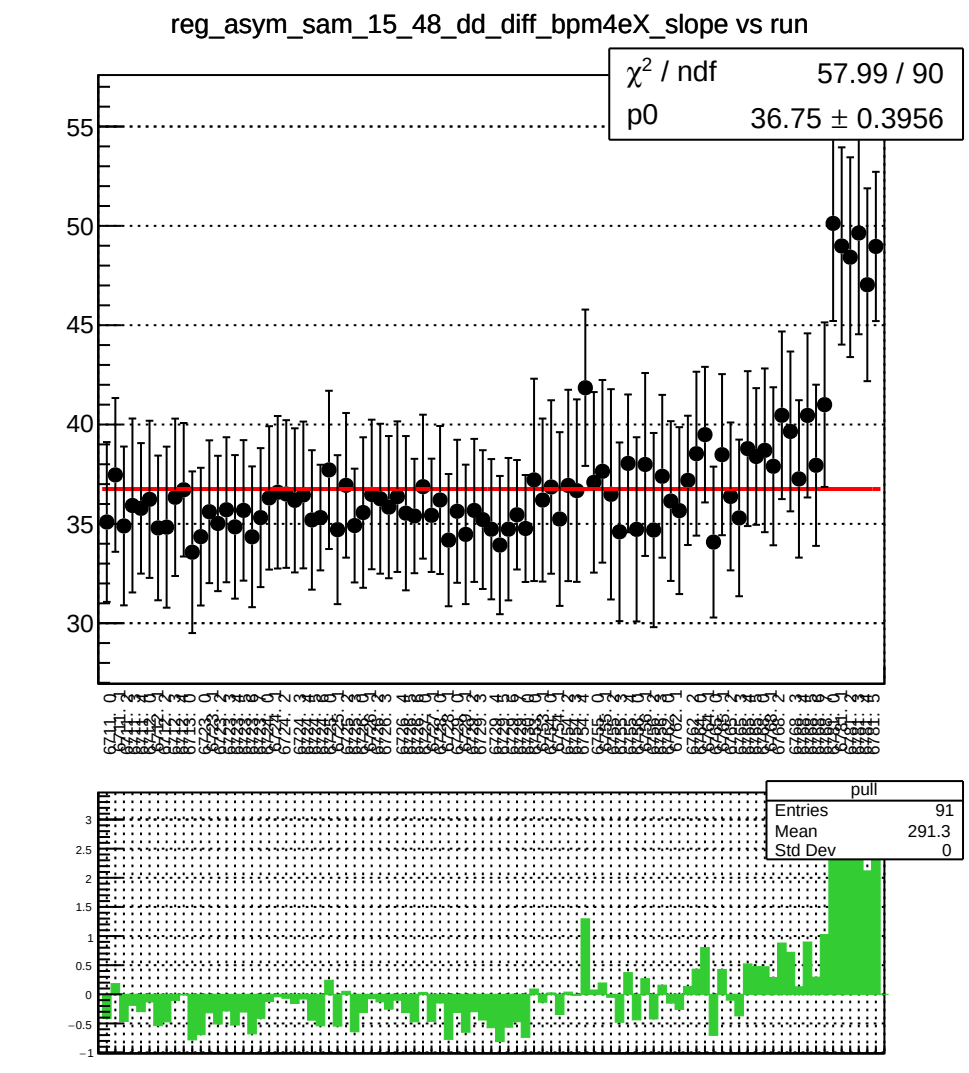

pull1D
Entries 91
Mean −0.02488
Std Dev 1.076

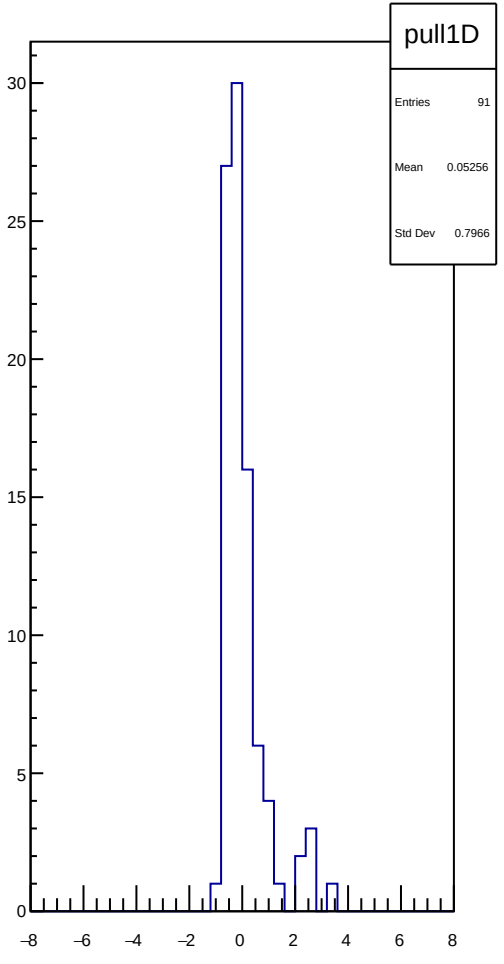

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 14.21 / 90
p0 0.2905 ± 0.01871
pull
Entries 91
Mean 225.9
Std Dev 0
pull1D
Entries 91
Mean 0.03462
Std Dev 0.3936

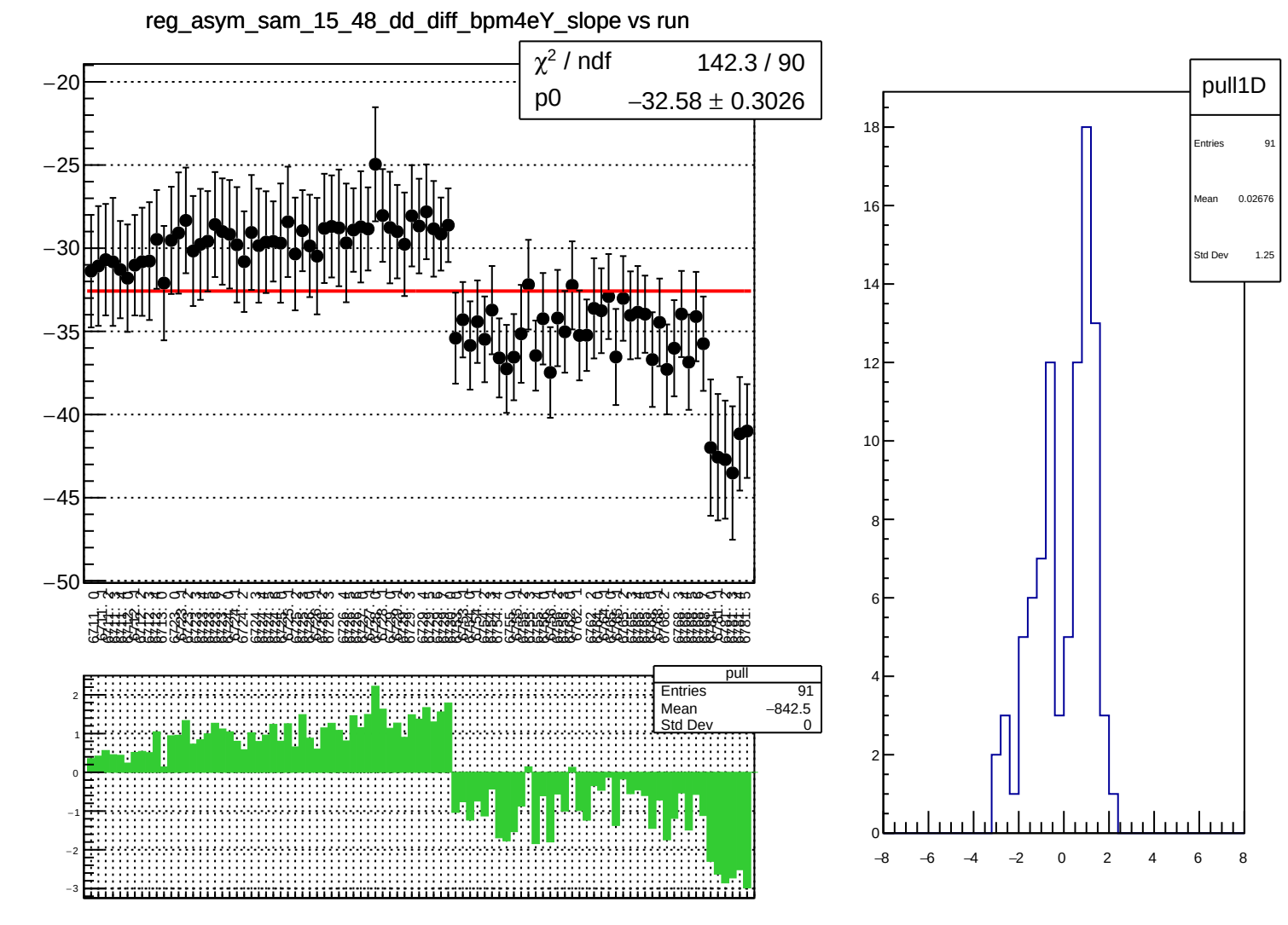

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 7.335 / 90
p0 3.961 ± 0.4115
pull
Entries 91
Mean 159.1
Std Dev 0

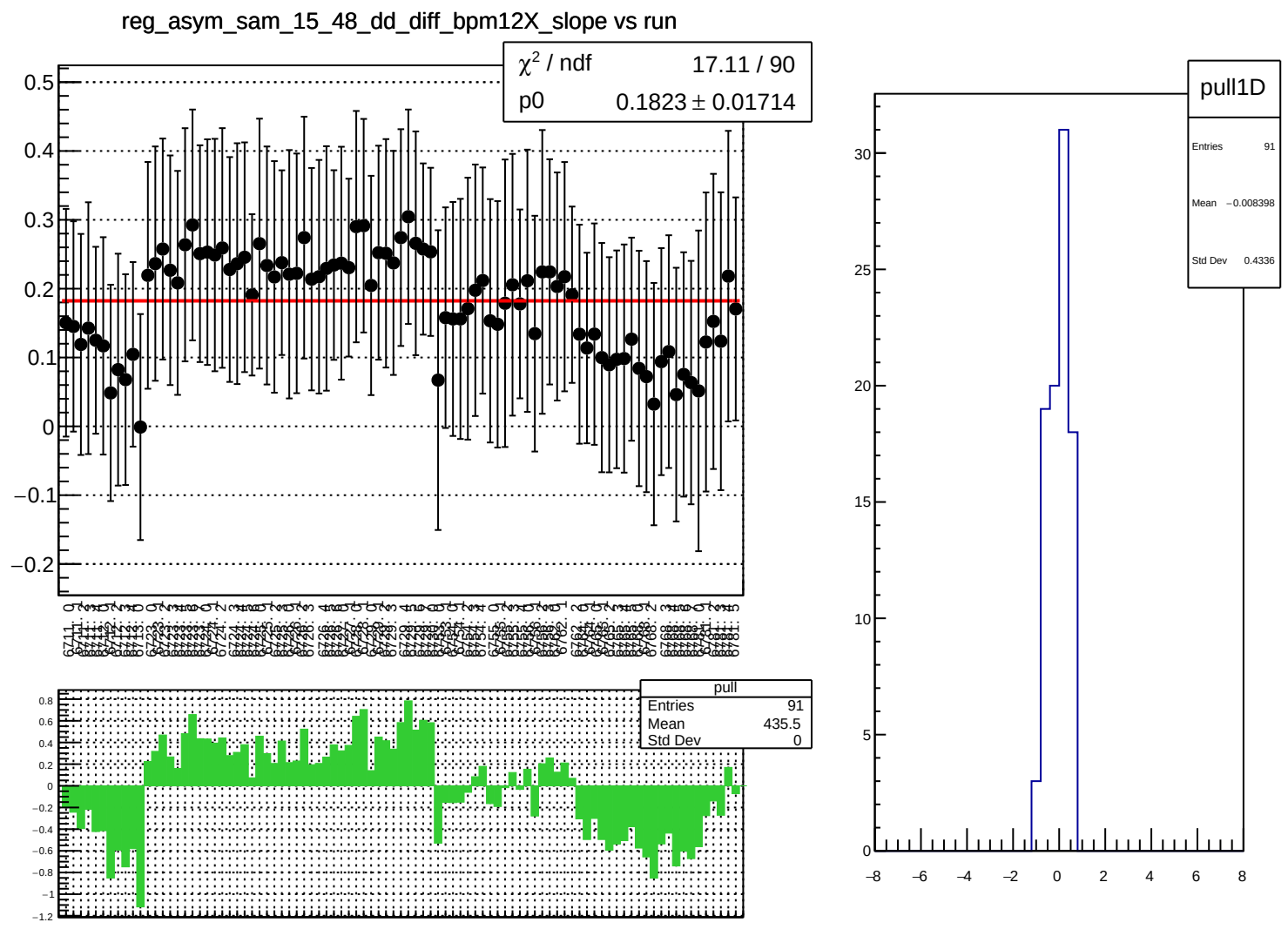

pull1D
Entries 91
Mean 0.009872
Std Dev 0.2837

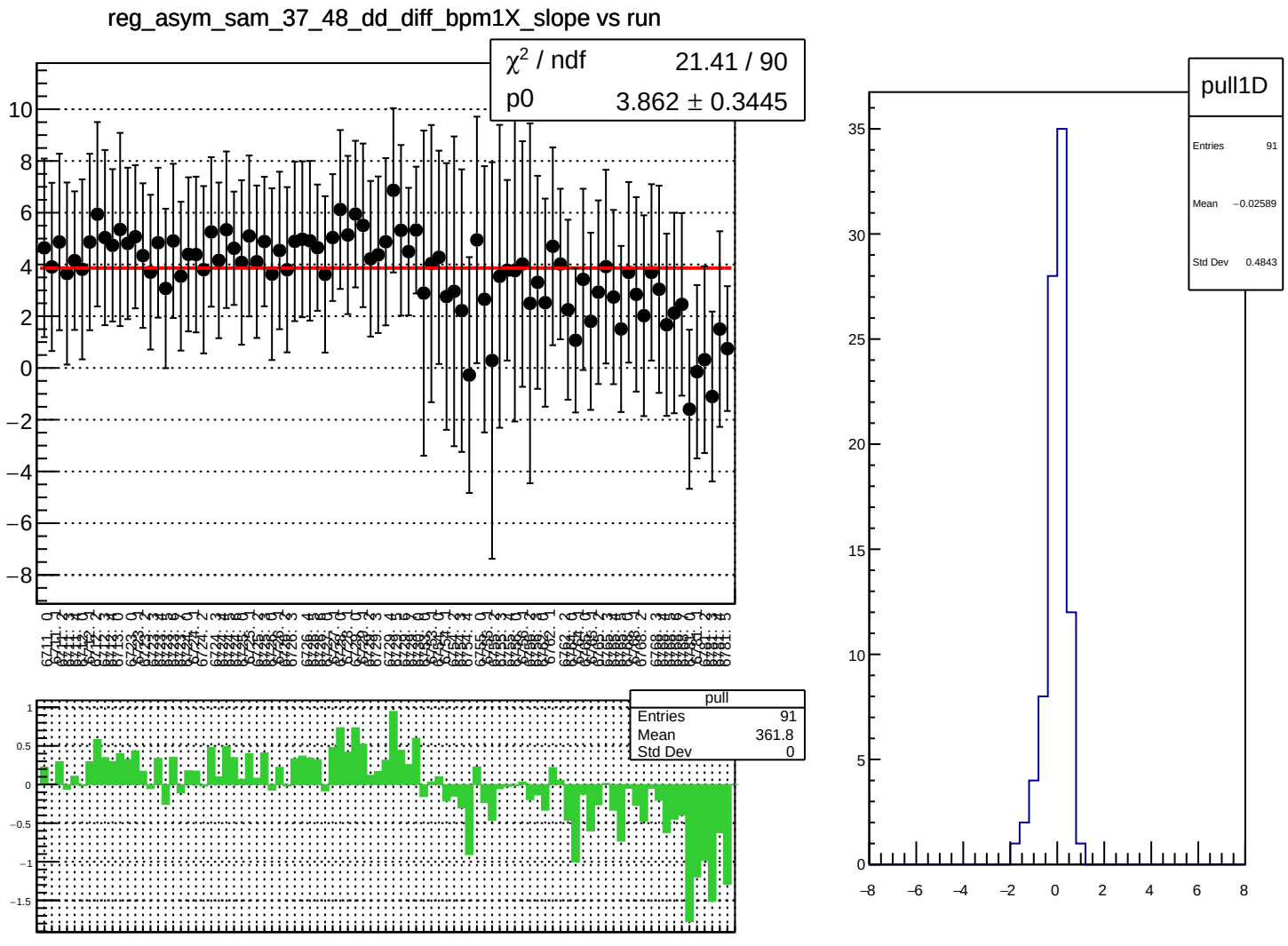

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 40.27 / 90
p0 6.357 ± 0.2404
pull
Entries 91
Mean −115.5
Std Dev 0
pull1D
Entries 91
Mean −0.06304
Std Dev 0.6623

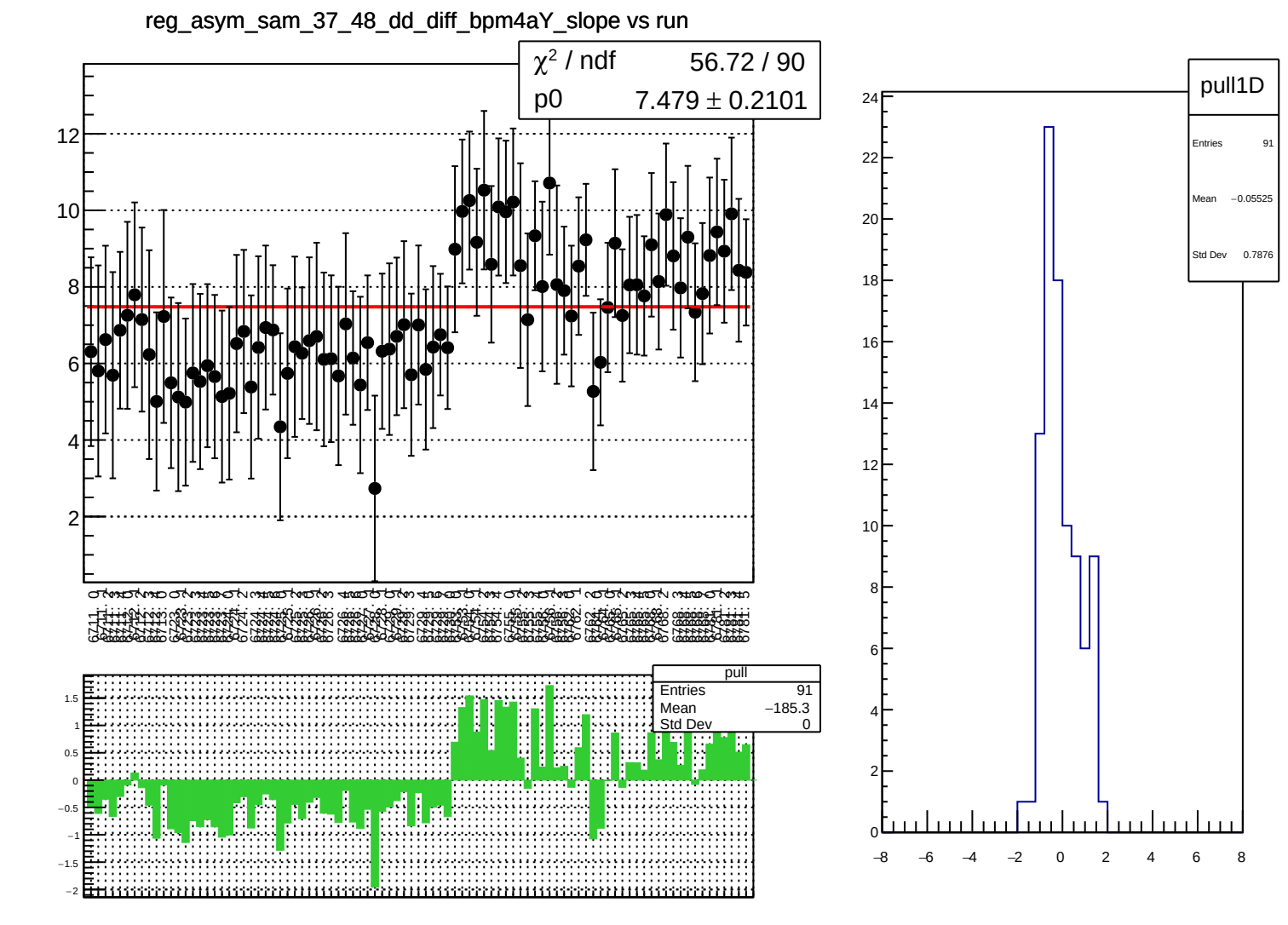

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.99 / 90
p0 36.75 ± 0.3956
pull
Entries 91
Mean 291.3
Std Dev 0

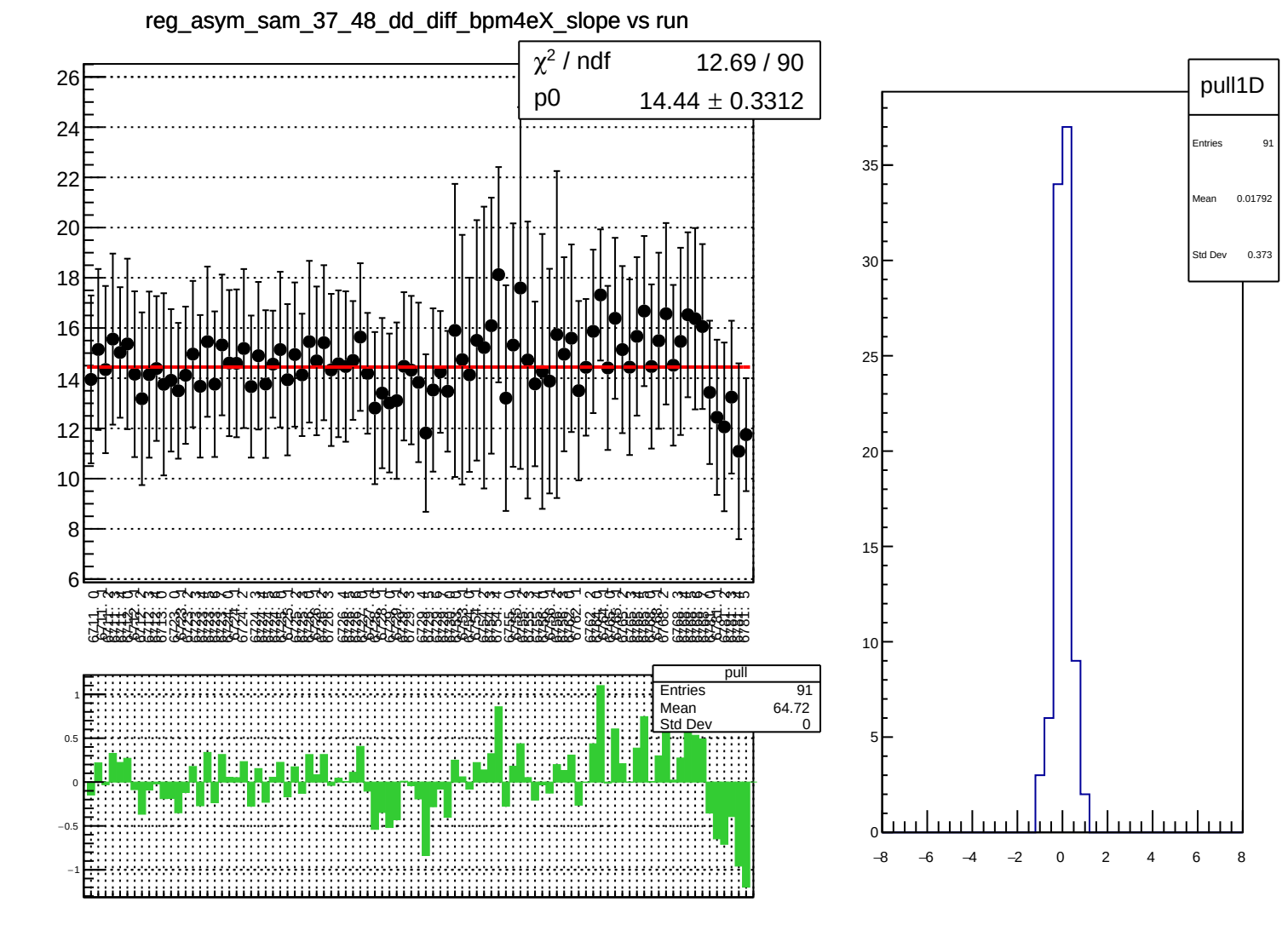

pull1D
Entries 91
Mean 0.05256
Std Dev 0.7966

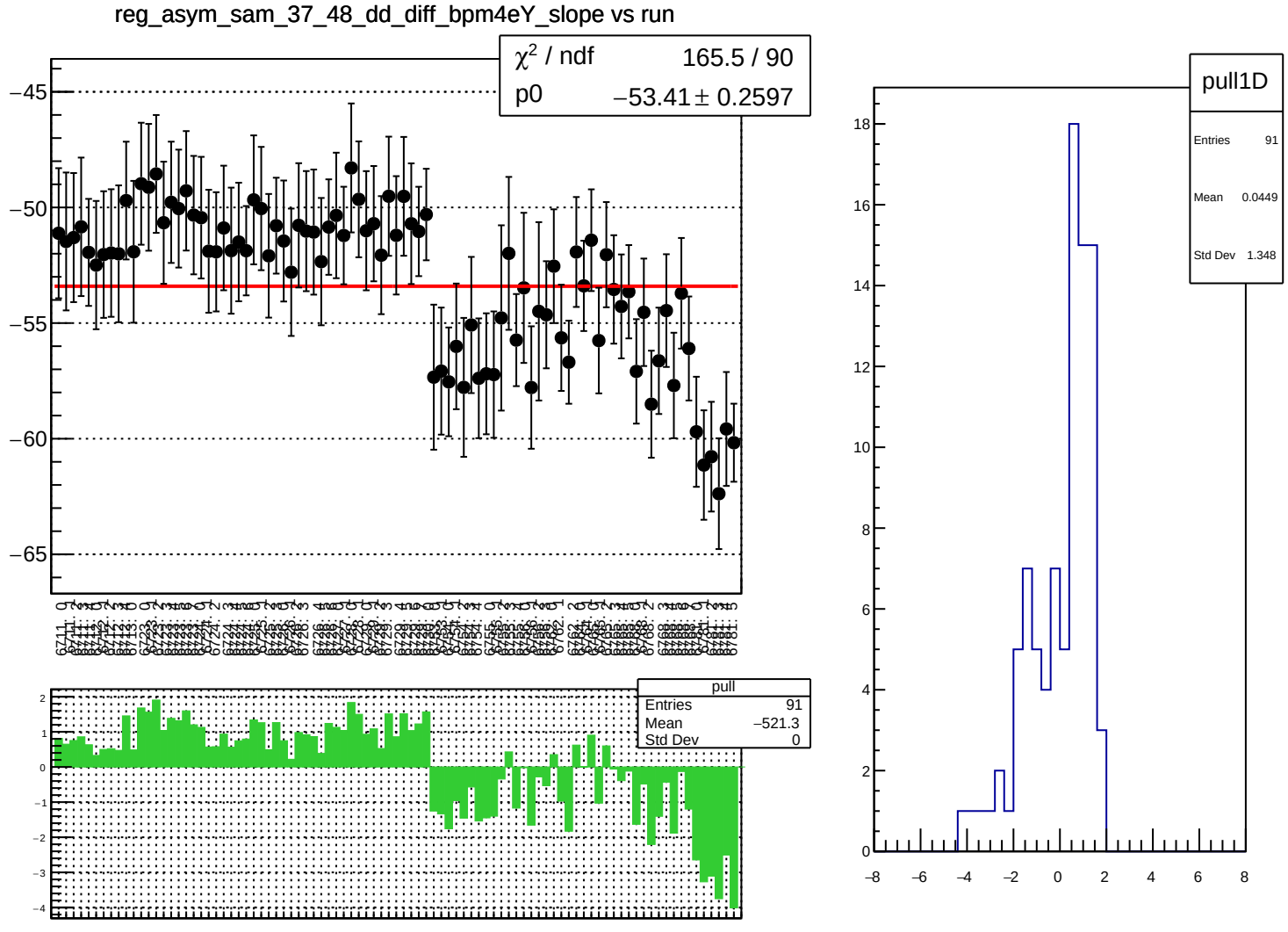

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 142.3 / 90
p0 −32.58 ± 0.3026
pull
Entries 91
Mean −842.5
Std Dev 0
pull1D
Entries 91
Mean 0.02676
Std Dev 1.25

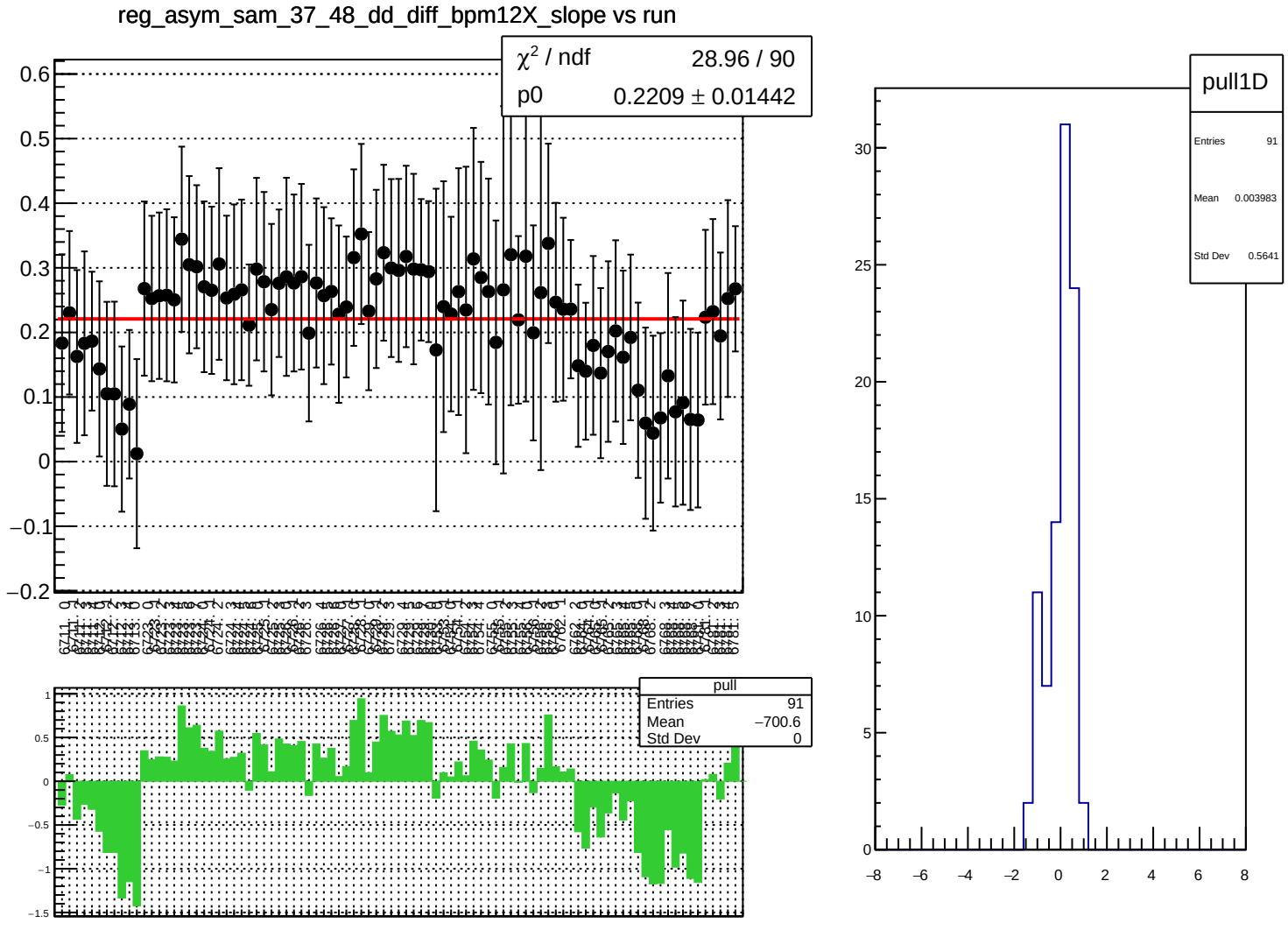

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 17.11 / 90
p0 0.1823 ± 0.01714
pull
Entries 91
Mean 435.5
Std Dev 0
pull1D
Entries 91
Mean −0.008398
Std Dev 0.4336

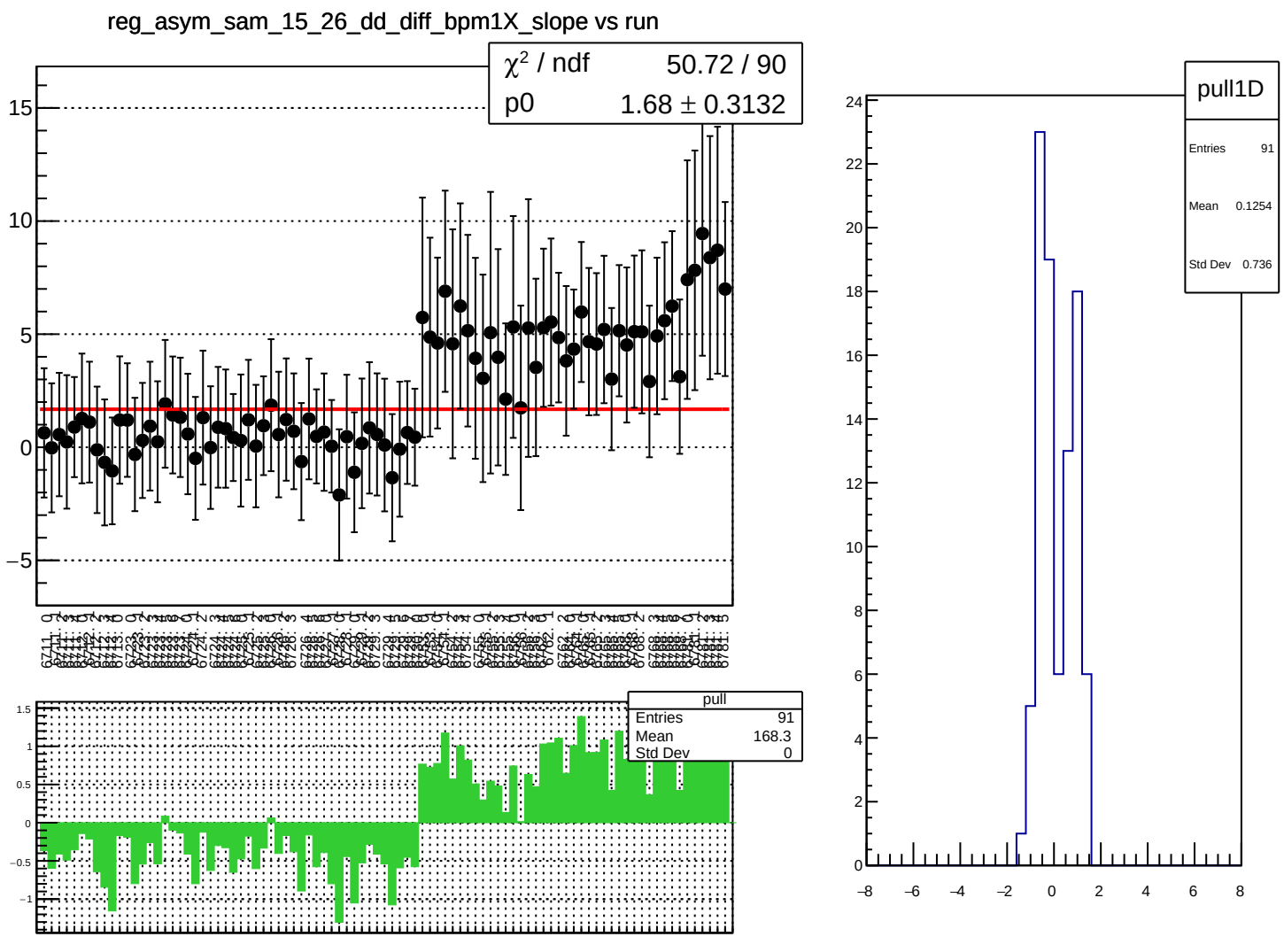

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 21.41 / 90
p0 3.862 ± 0.3445
pull
Entries 91
Mean 361.8
Std Dev 0
pull1D
Entries 91
Mean −0.02589
Std Dev 0.4843

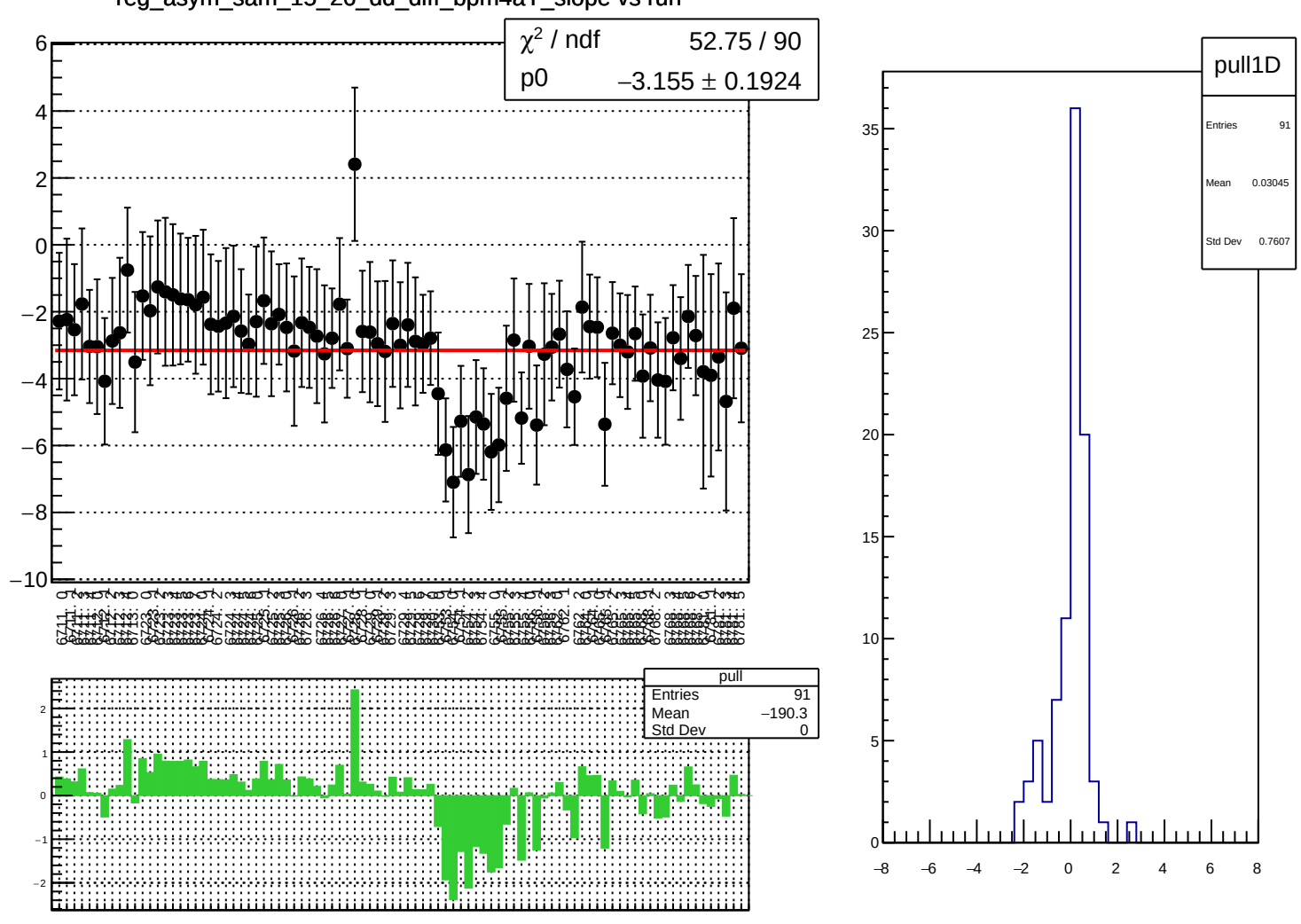

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.72 / 90
p0 7.479 ± 0.2101
pull
Entries 91
Mean −185.3
Std Dev 0
pull1D
Entries 91
Mean −0.05525
Std Dev 0.7876

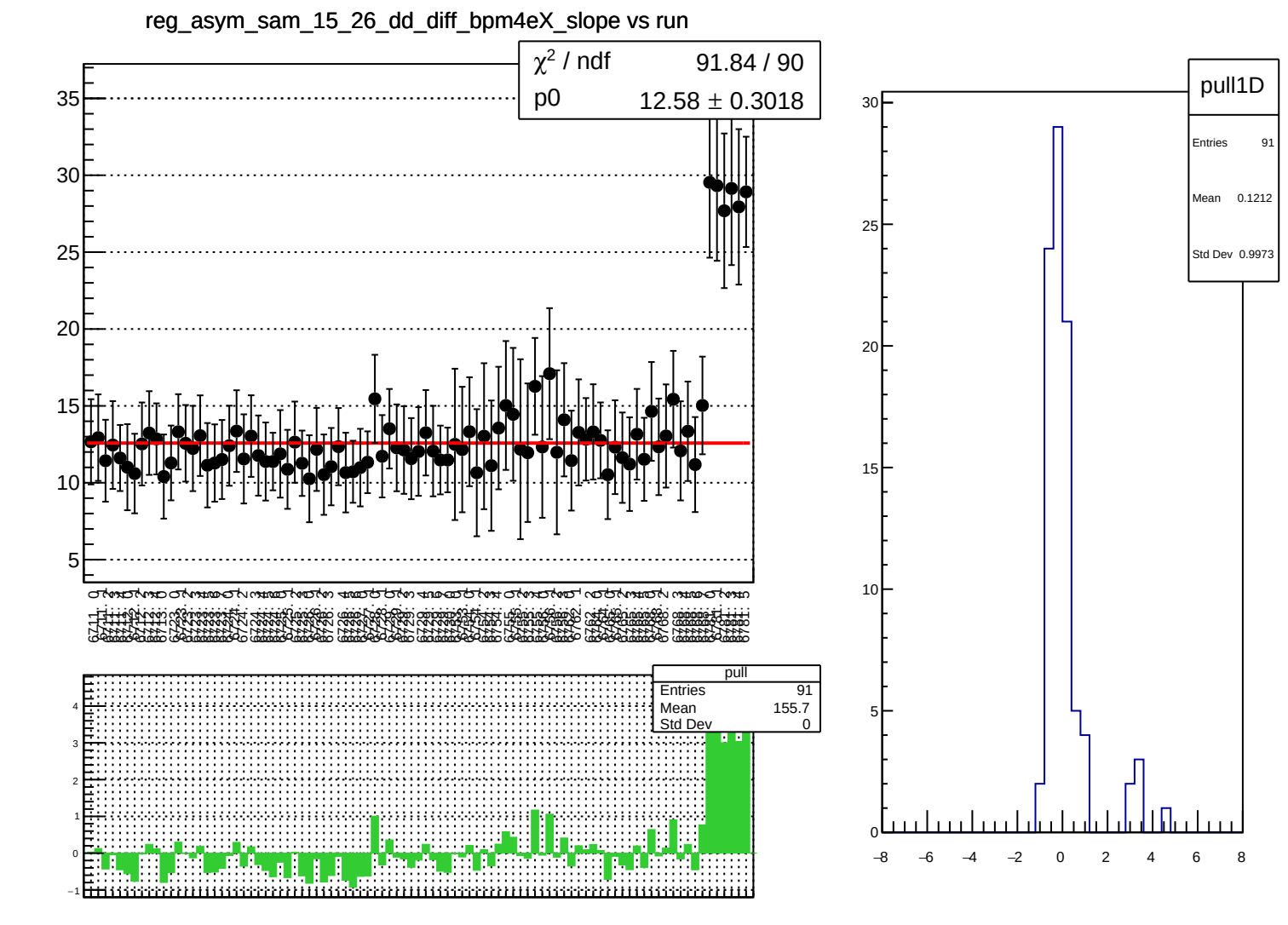

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.69 / 90
p0 14.44 ± 0.3312
pull
Entries 91
Mean 64.72
Std Dev 0
pull1D
Entries 91
Mean 0.01792
Std Dev 0.373

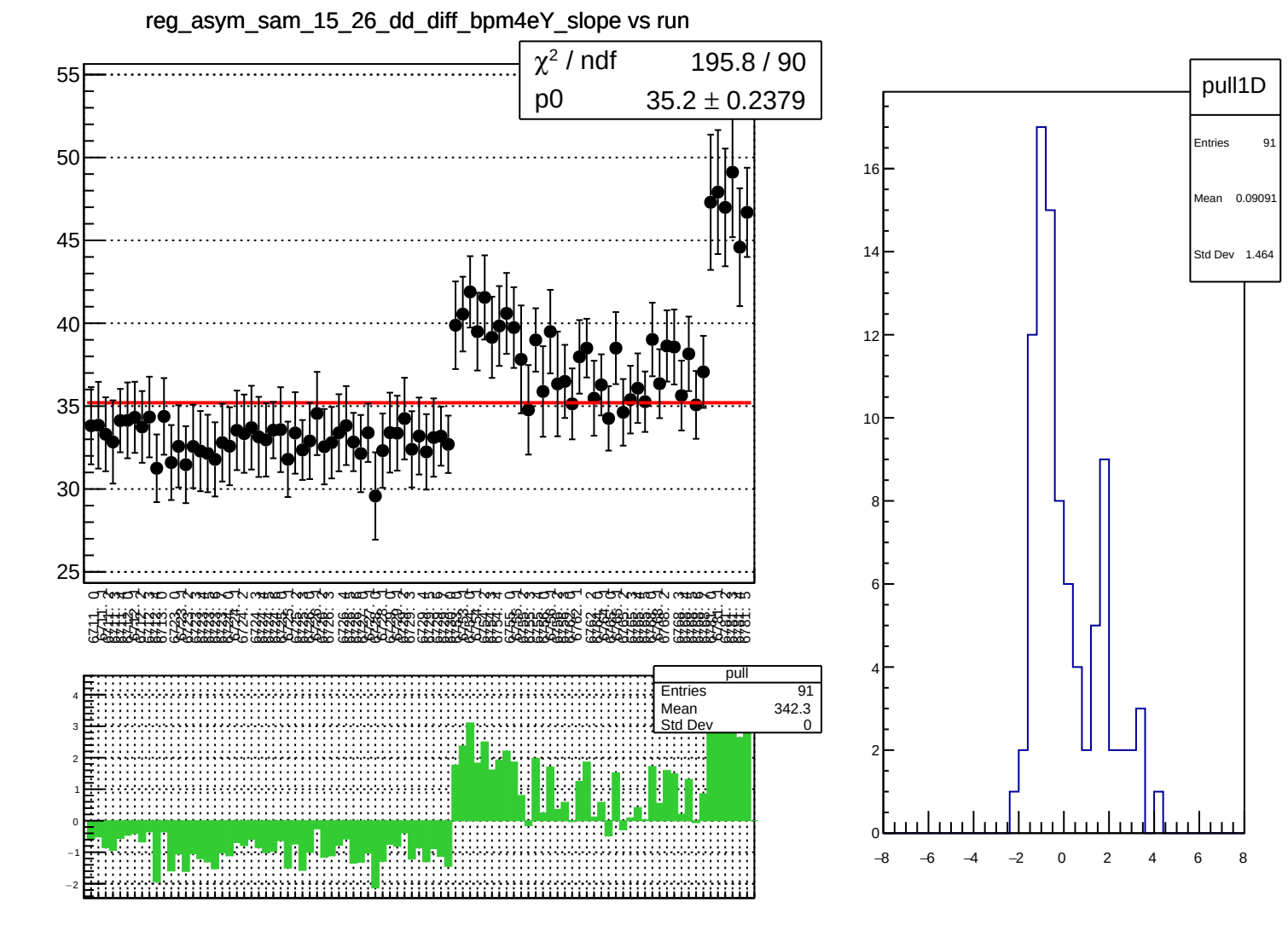

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 165.5 / 90
p0 −53.41 ± 0.2597
−45
−50
−55
−60
−65
pull
Entries 91
Mean −521.3
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 91
Mean 0.0449
Std Dev 1.348
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

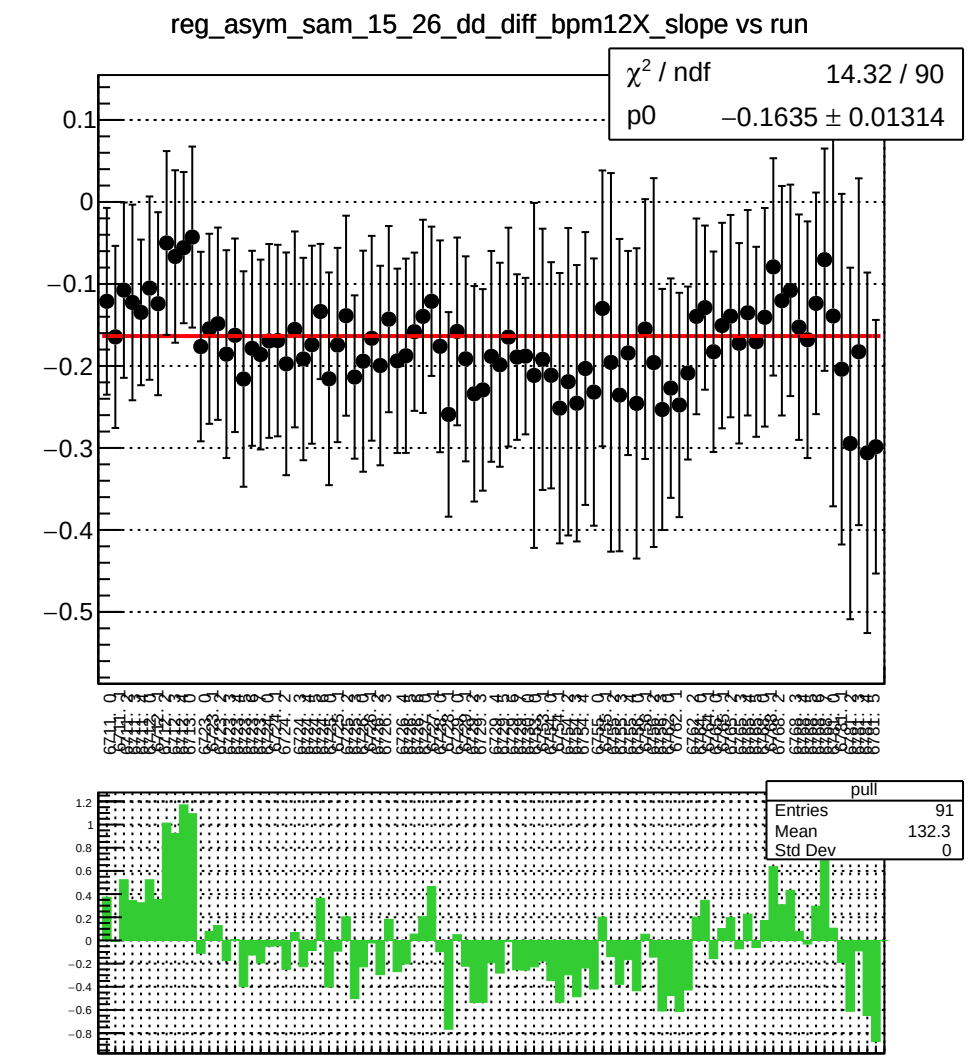

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 28.96 / 90
p0 0.2209 ± 0.01442
pull
Entries 91
Mean −700.6
Std Dev 0
pull1D
Entries 91
Mean 0.003983
Std Dev 0.5641

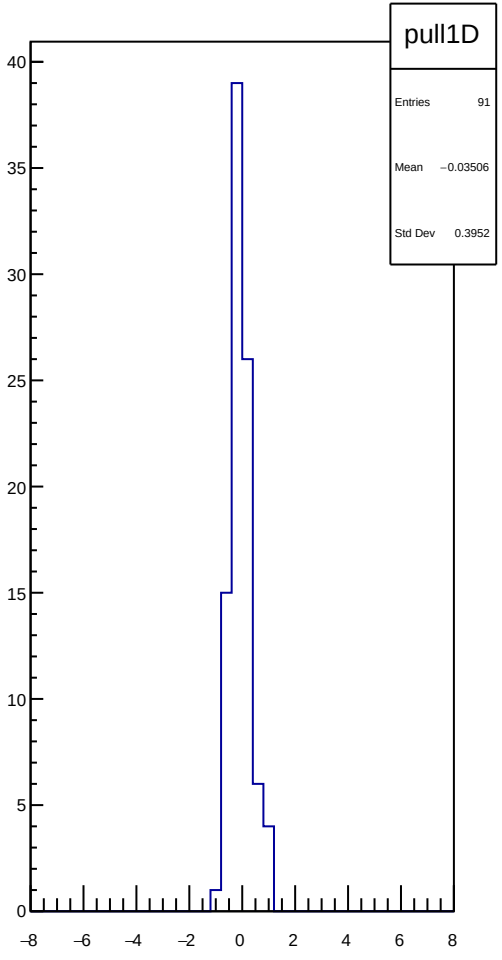

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 50.72 / 90
p0 1.68 ± 0.3132
pull
Entries 91
Mean 168.3
Std Dev 0
pull1D
Entries 91
Mean 0.1254
Std Dev 0.736

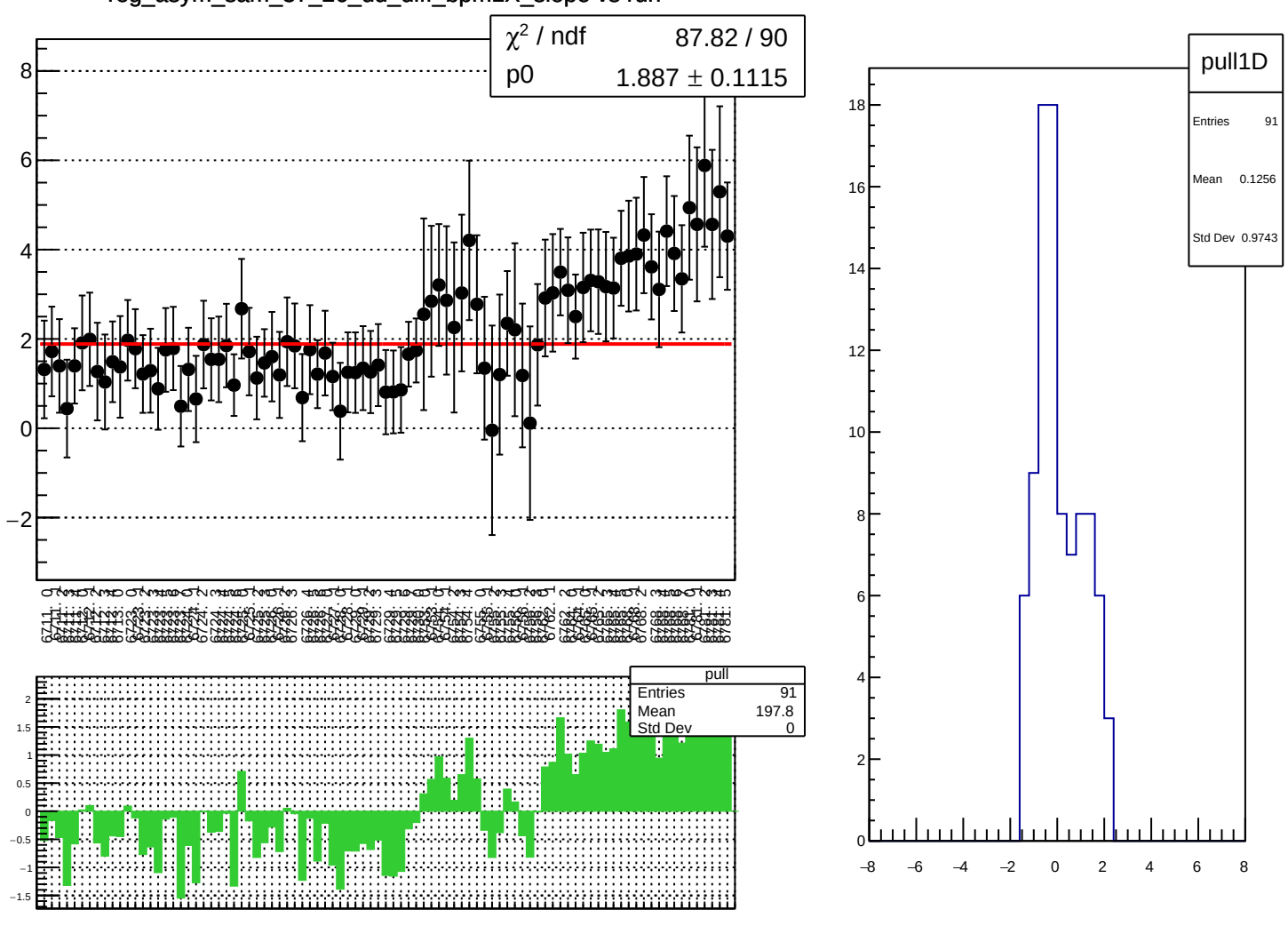

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 52.75 / 90
p0 −3.155 ± 0.1924
pull
Entries 91
Mean −190.3
Std Dev 0
pull1D
Entries 91
Mean 0.03045
Std Dev 0.7607

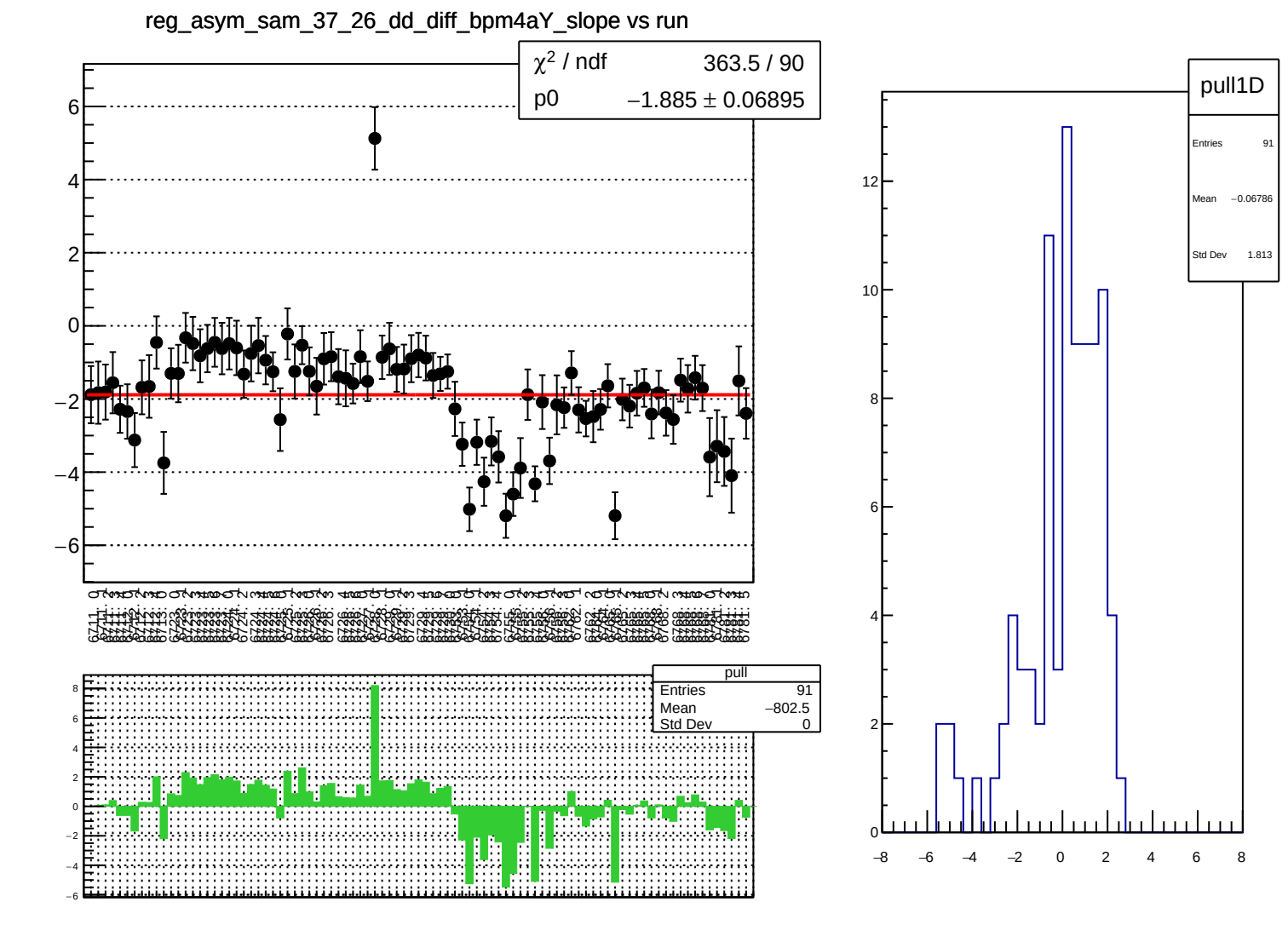

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 91.84 / 90
p0 12.58 ± 0.3018
pull
Entries 91
Mean 155.7
Std Dev 0
pull1D
Entries 91
Mean 0.1212
Std Dev 0.9973

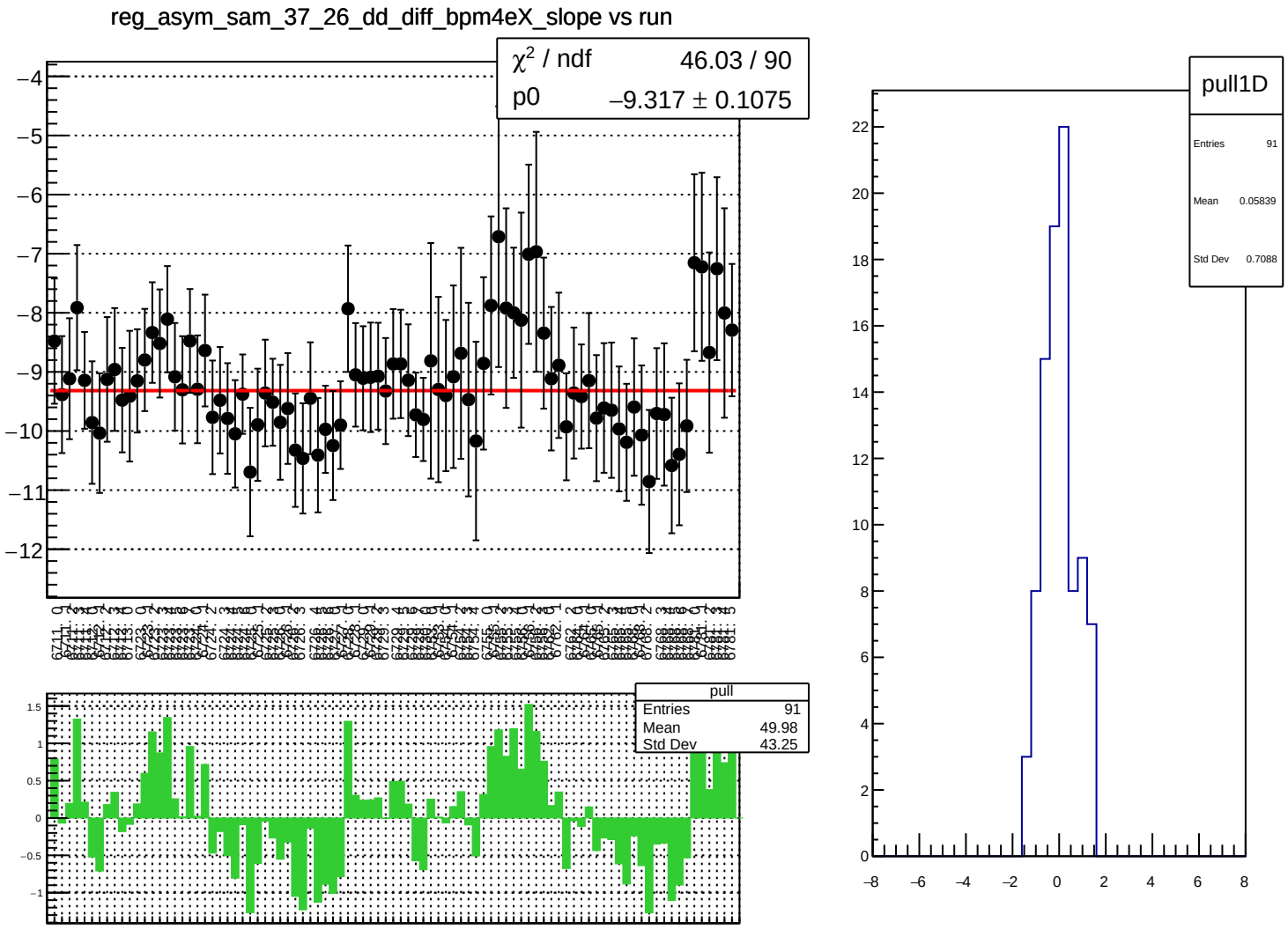

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 195.8 / 90
p0 35.2 ± 0.2379
pull
Entries 91
Mean 342.3
Std Dev 0
pull1D
Entries 91
Mean 0.09091
Std Dev 1.464

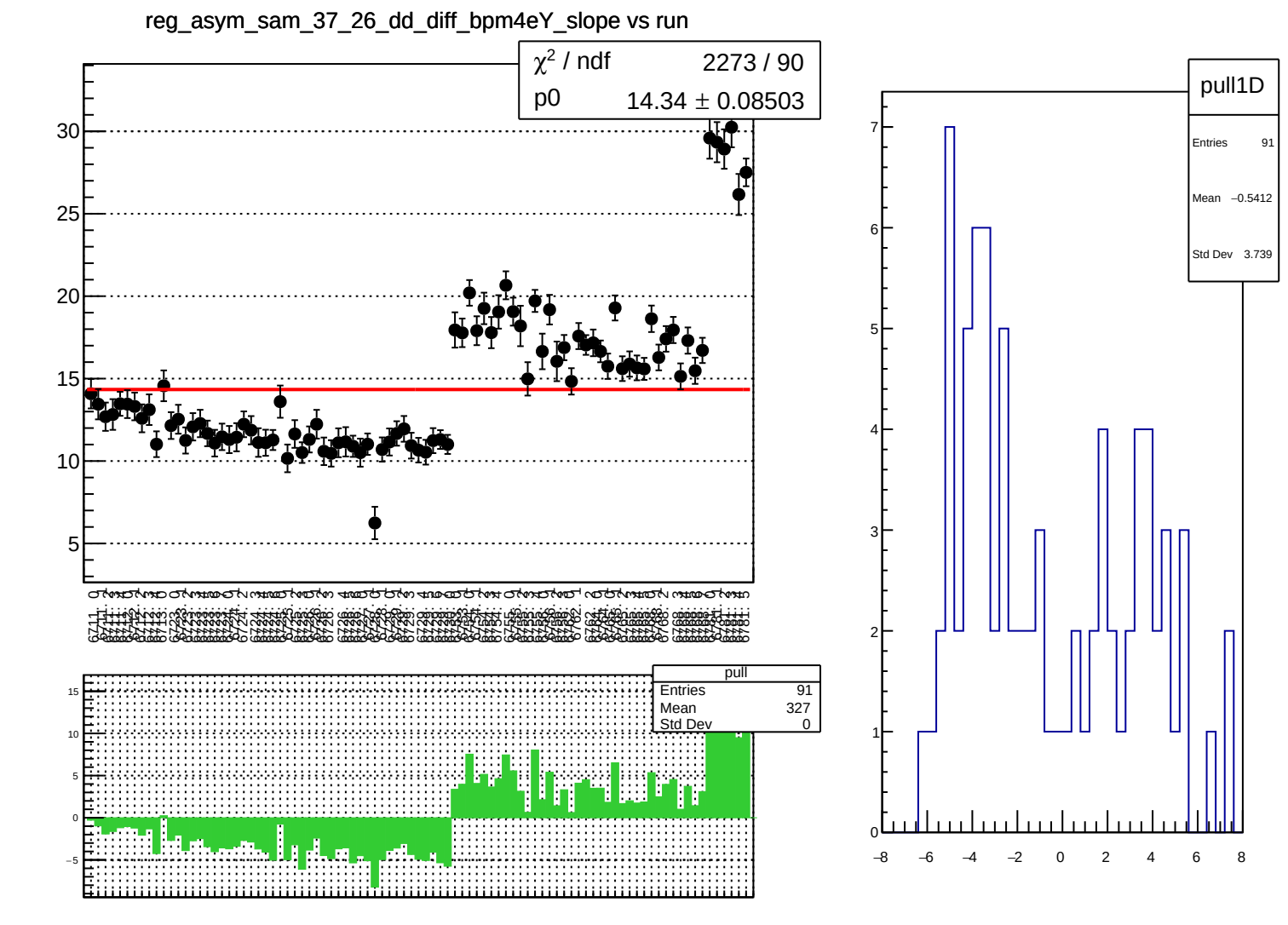

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 14.32 / 90
p0 −0.1635 ± 0.01314
pull
Entries 91
Mean 132.3
Std Dev 0

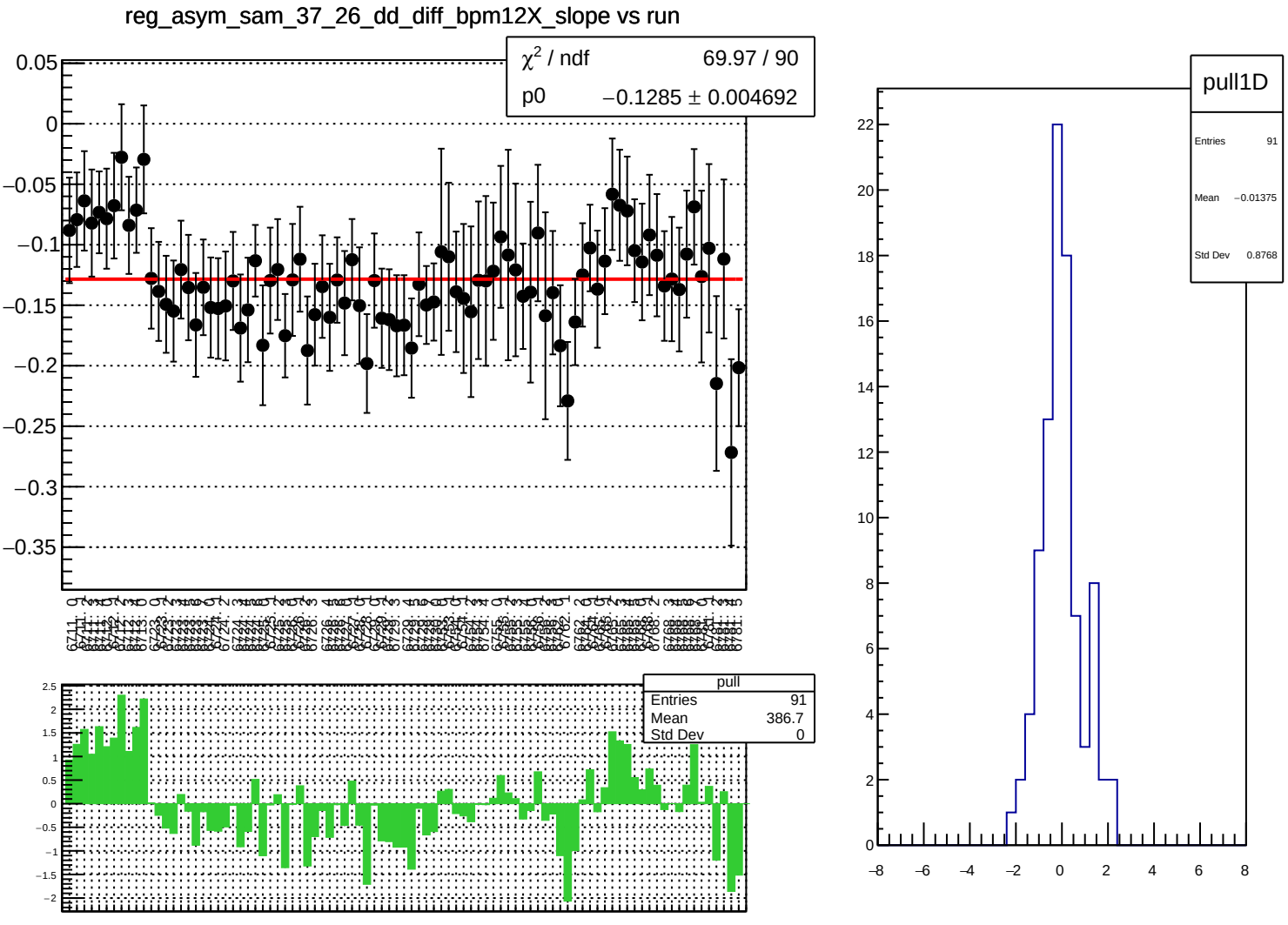

pull1D
Entries 91
Mean −0.03506
Std Dev 0.3952

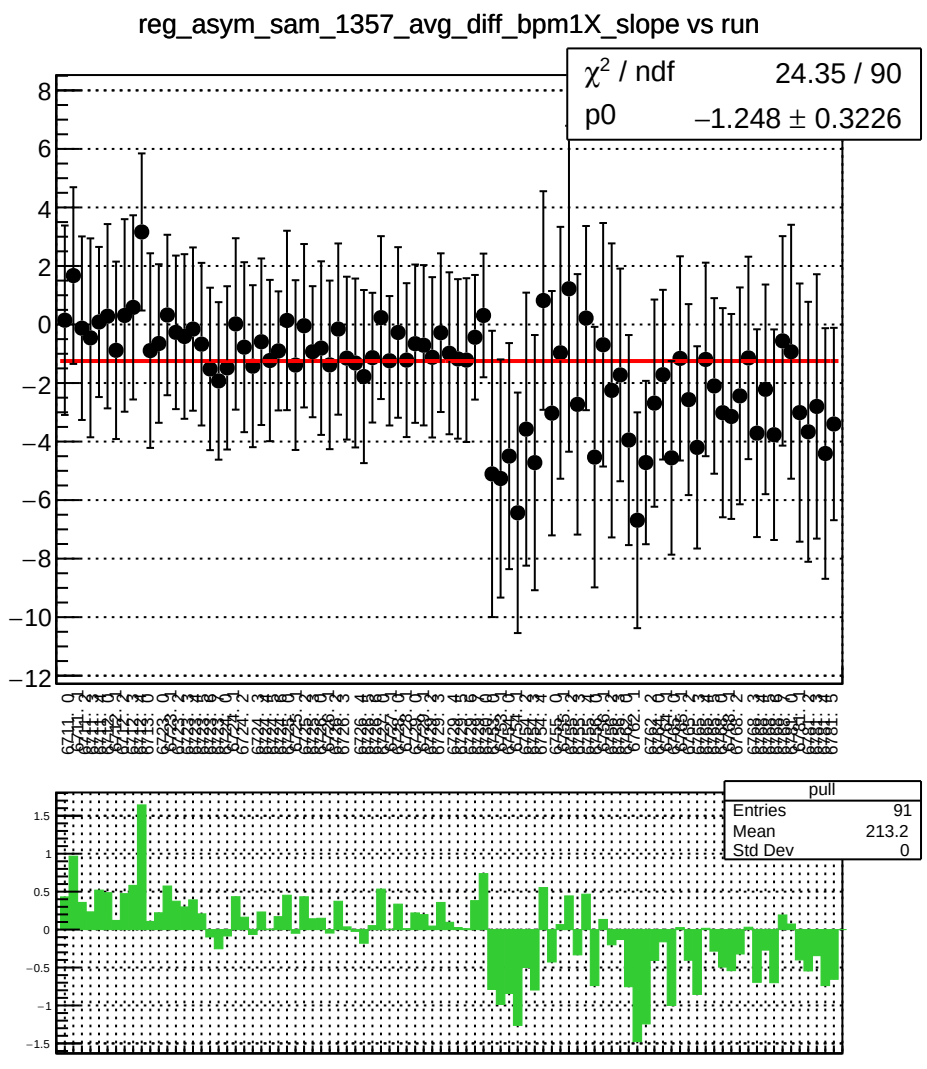

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 87.82 / 90
p0 1.887 ± 0.1115
pull
Entries 91
Mean 197.8
Std Dev 0
pull1D
Entries 91
Mean 0.1256
Std Dev 0.9743

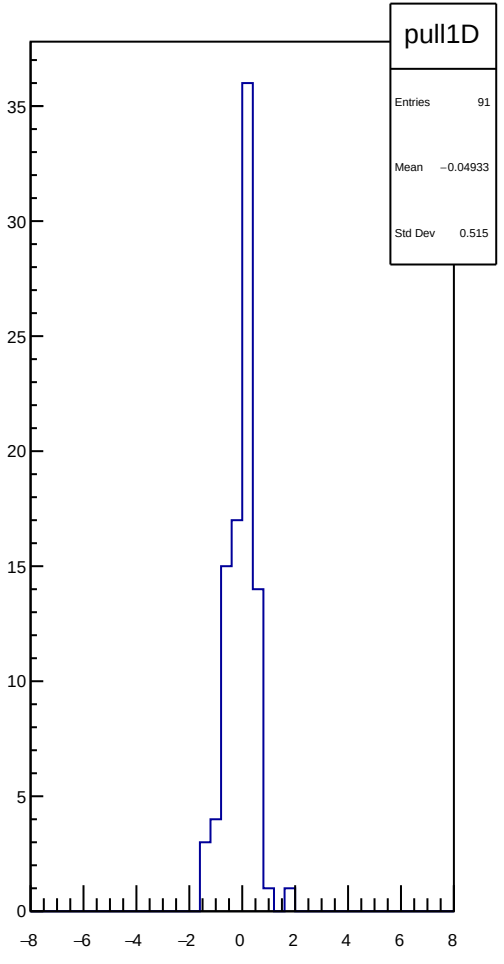

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 363.5 / 90
p0 −1.885 ± 0.06895
pull
Entries 91
Mean −802.5
Std Dev 0
pull1D
Entries 91
Mean −0.06786
Std Dev 1.813

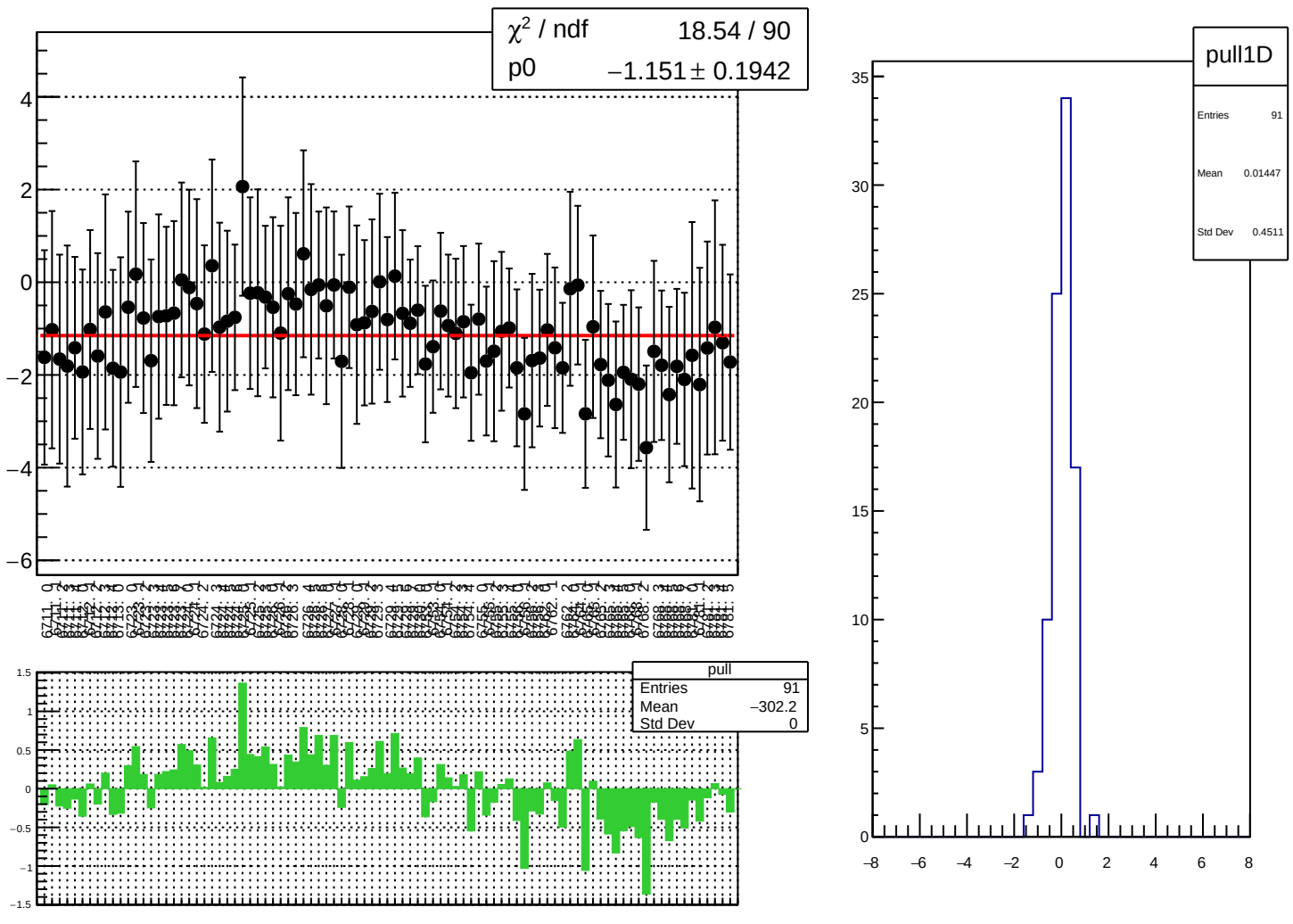

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 46.03 / 90
p0 −9.317 ± 0.1075
pull
Entries 91
Mean 49.98
Std Dev 43.25
pull1D
Entries 91
Mean 0.05839
Std Dev 0.7088

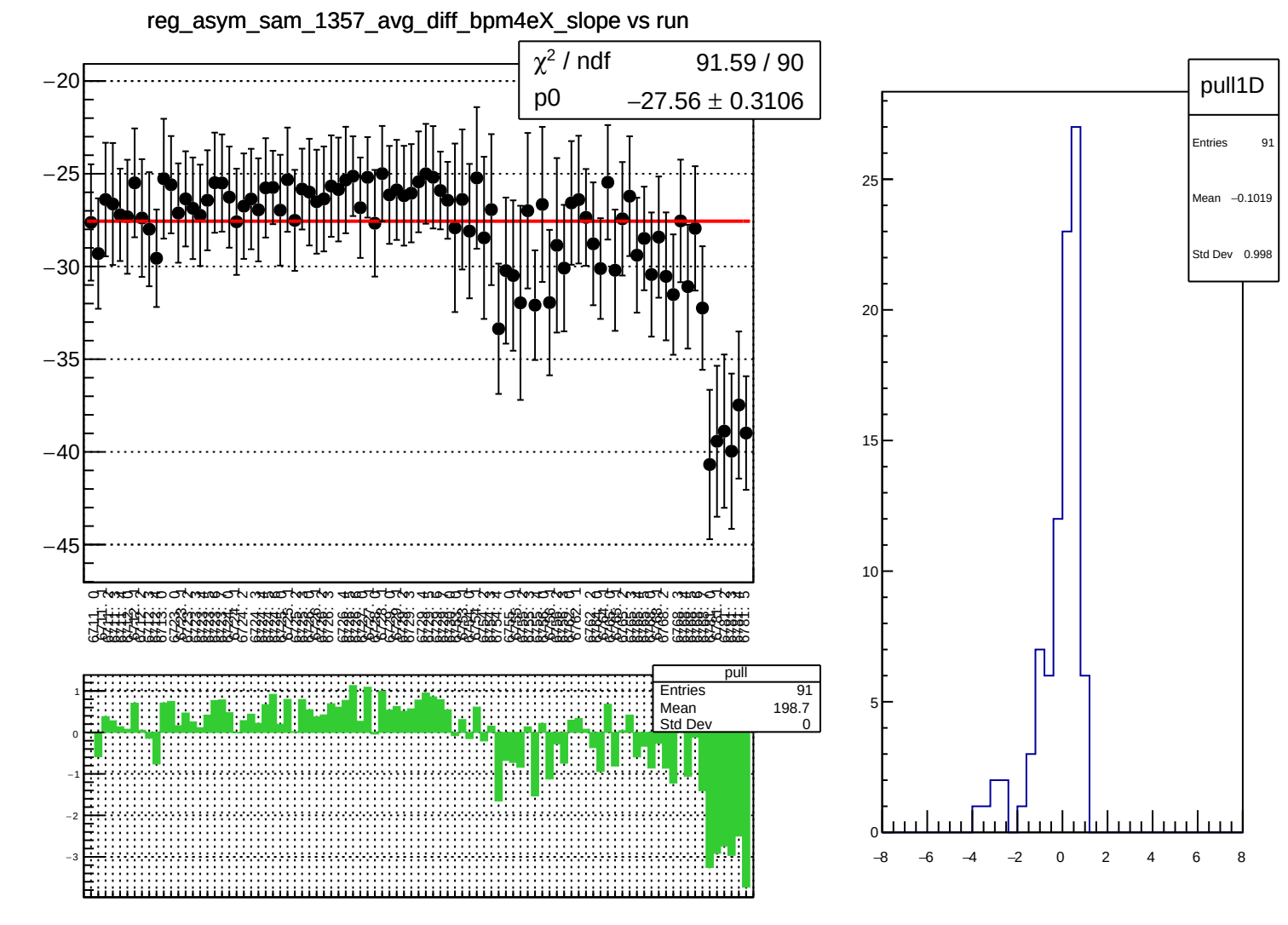

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2273 / 90
p0 14.34 ± 0.08503
pull
Entries 91
Mean 327
Std Dev 0
pull1D
Entries 91
Mean −0.5412
Std Dev 3.739

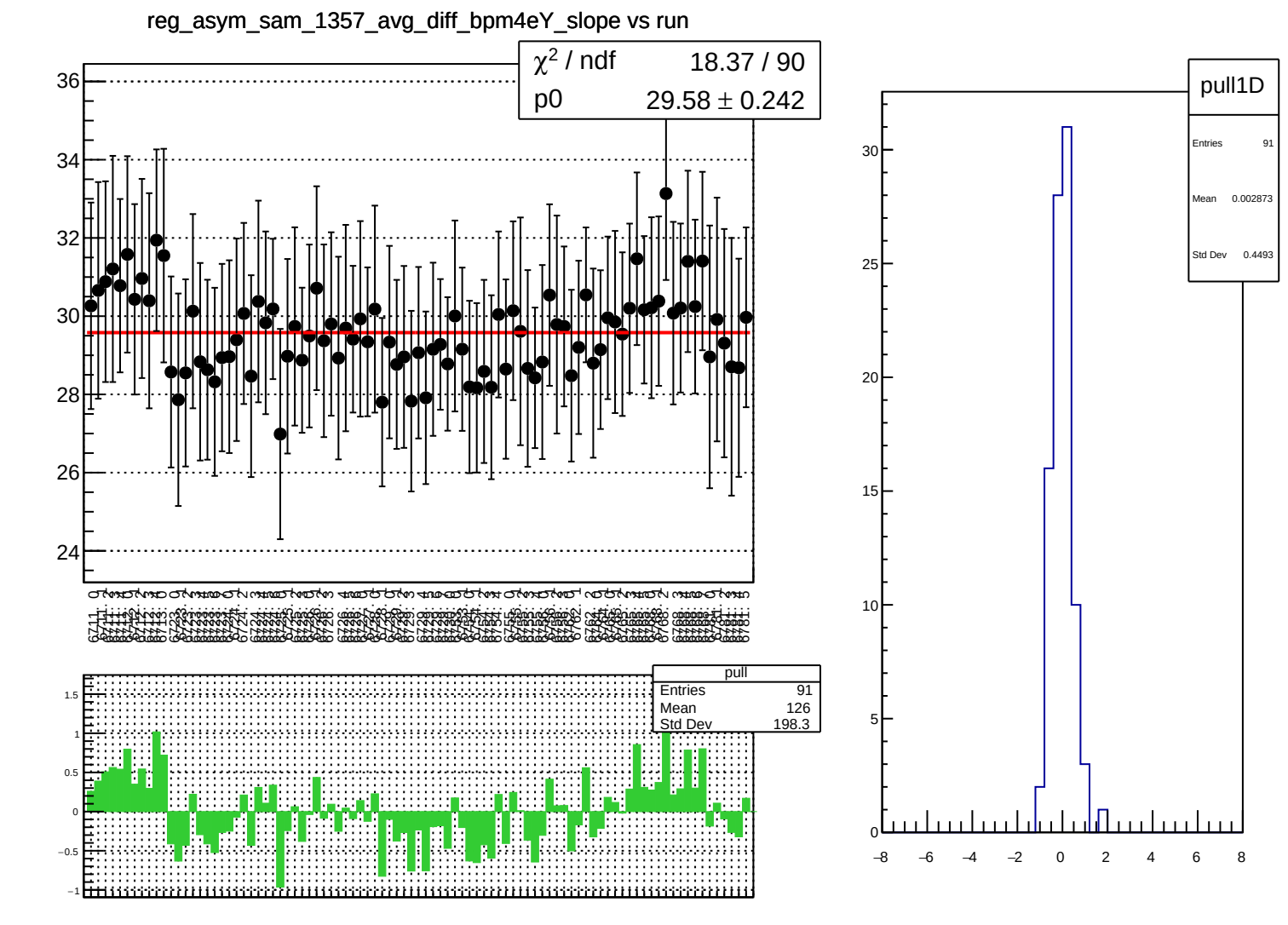

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 69.97 / 90
p0 −0.1285 ± 0.004692
pull
Entries 91
Mean 386.7
Std Dev 0
pull1D
Entries 91
Mean −0.01375
Std Dev 0.8768

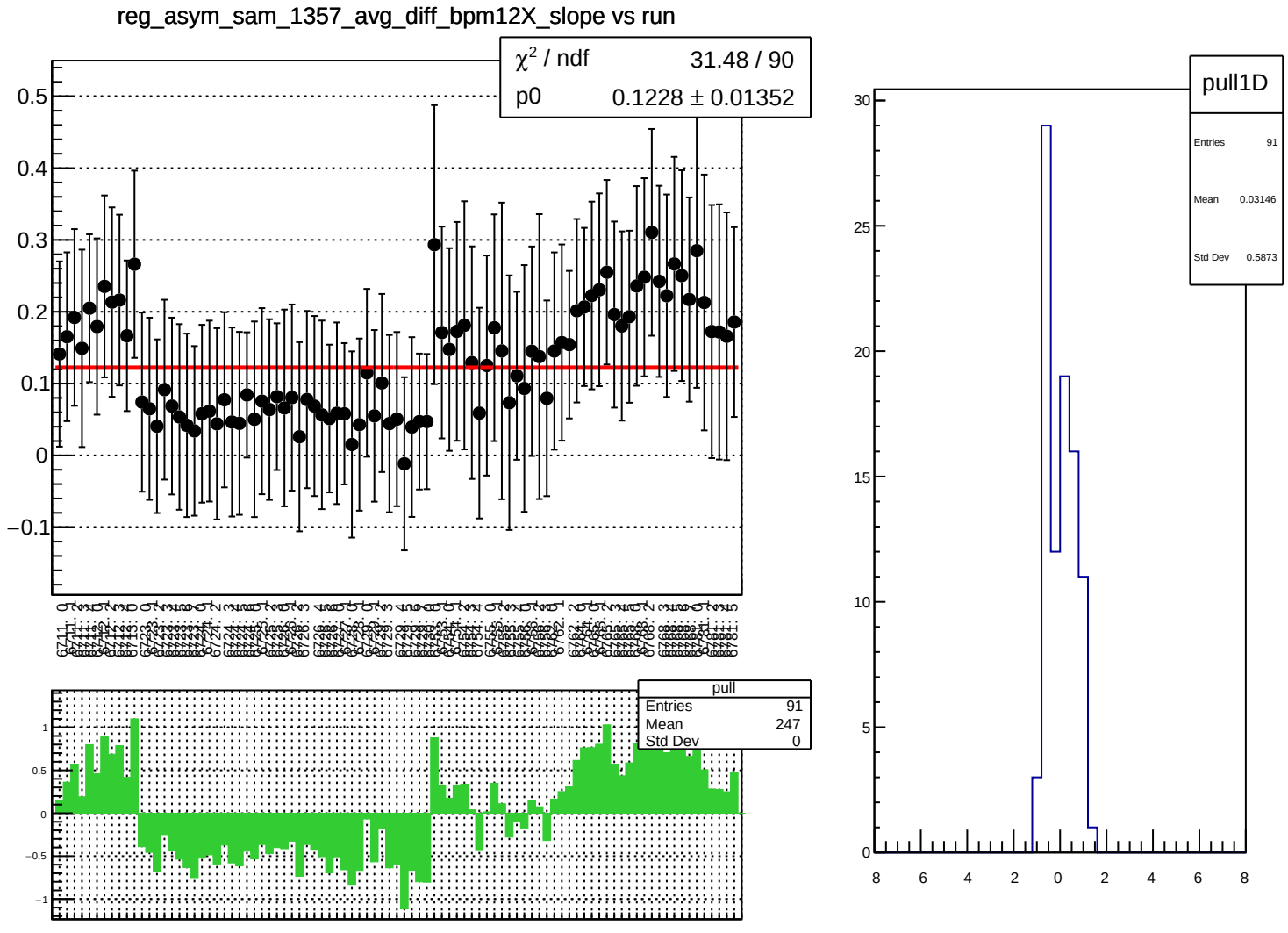

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 24.35 / 90
p0 −1.248 ± 0.3226
pull
Entries 91
Mean 213.2
Std Dev 0

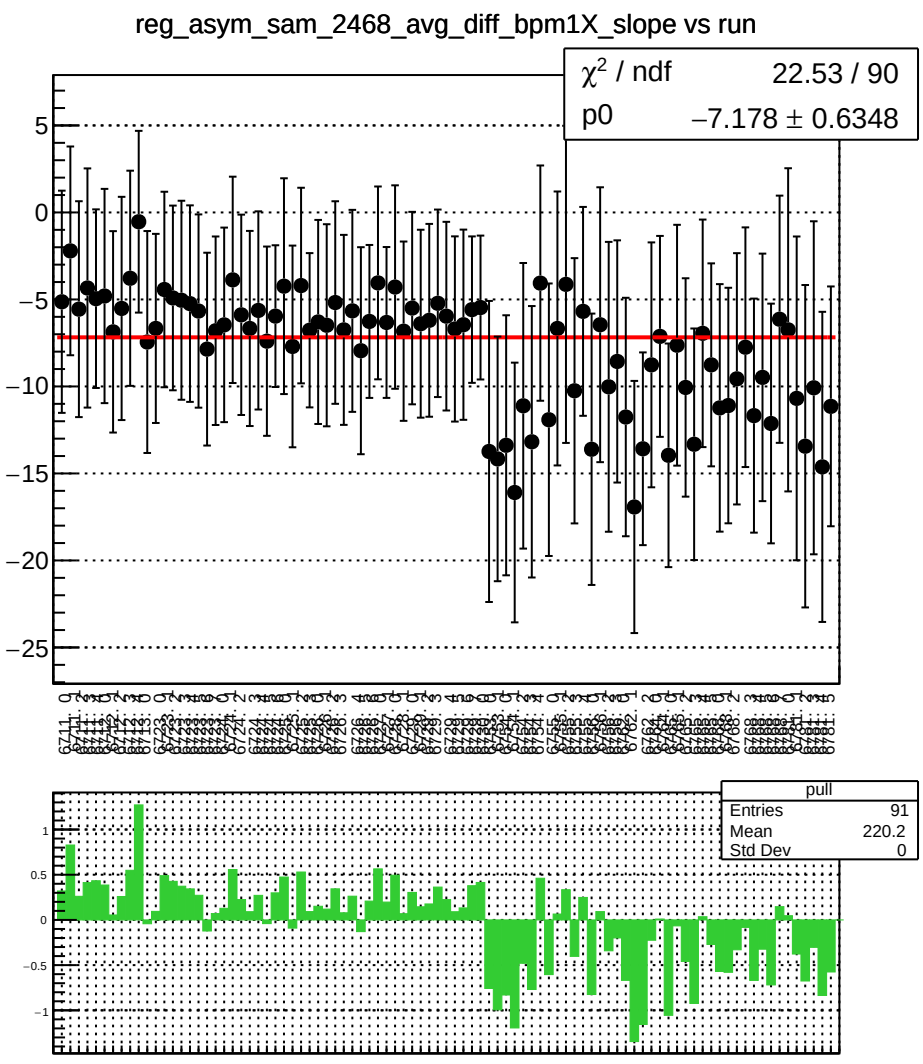

pull1D
Entries 91
Mean −0.04933
Std Dev 0.515

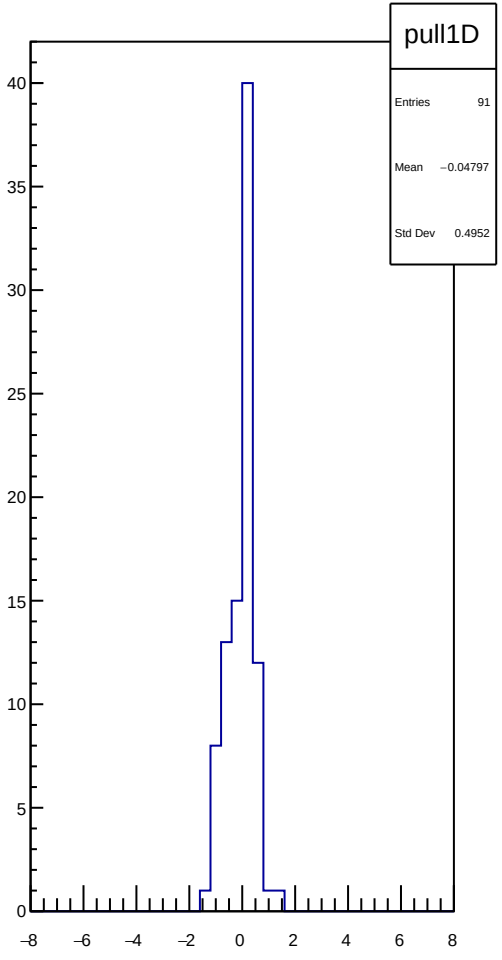

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.54 / 90
p0 −1.151 ± 0.1942
pull
Entries 91
Mean −302.2
Std Dev 0
pull1D
Entries 91
Mean 0.01447
Std Dev 0.4511

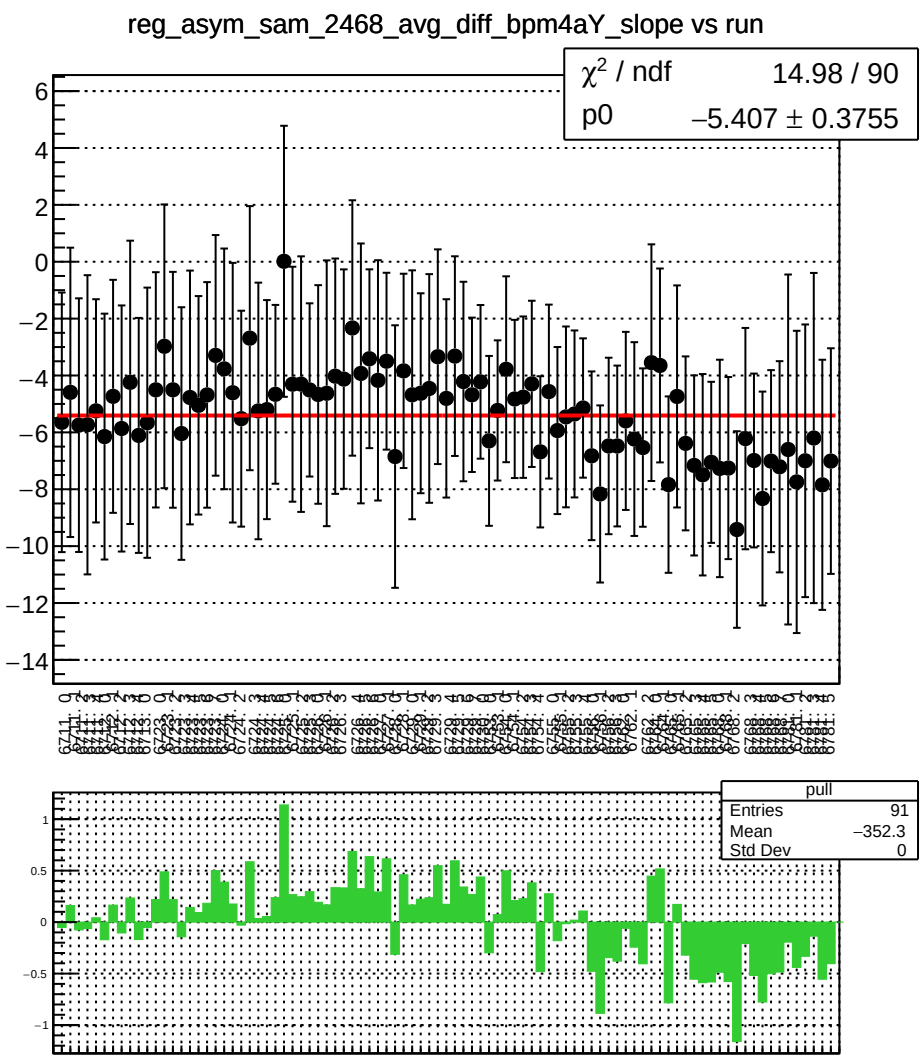

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 91.59 / 90
p0 −27.56 ± 0.3106
pull
Entries 91
Mean 198.7
Std Dev 0
pull1D
Entries 91
Mean −0.1019
Std Dev 0.998

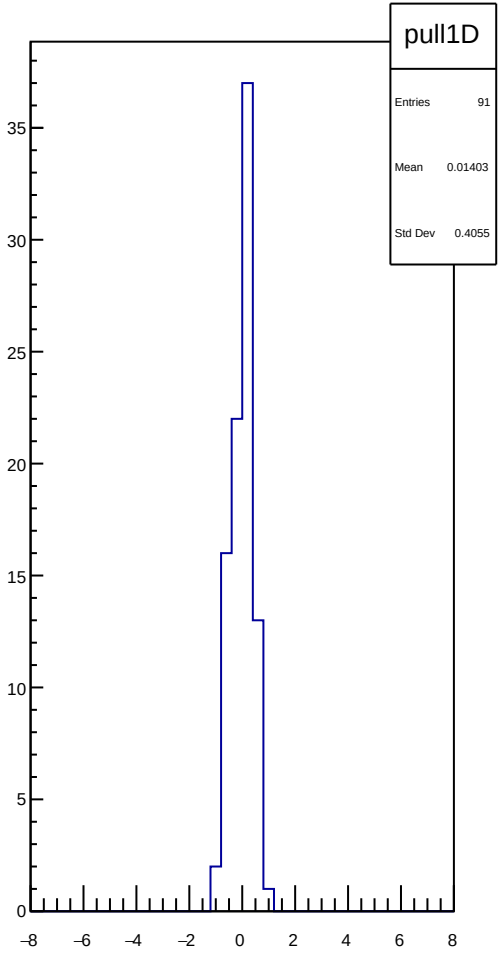

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.37 / 90
p0 29.58 ± 0.242
pull
Entries 91
Mean 126
Std Dev 198.3
pull1D
Entries 91
Mean 0.002873
Std Dev 0.4493

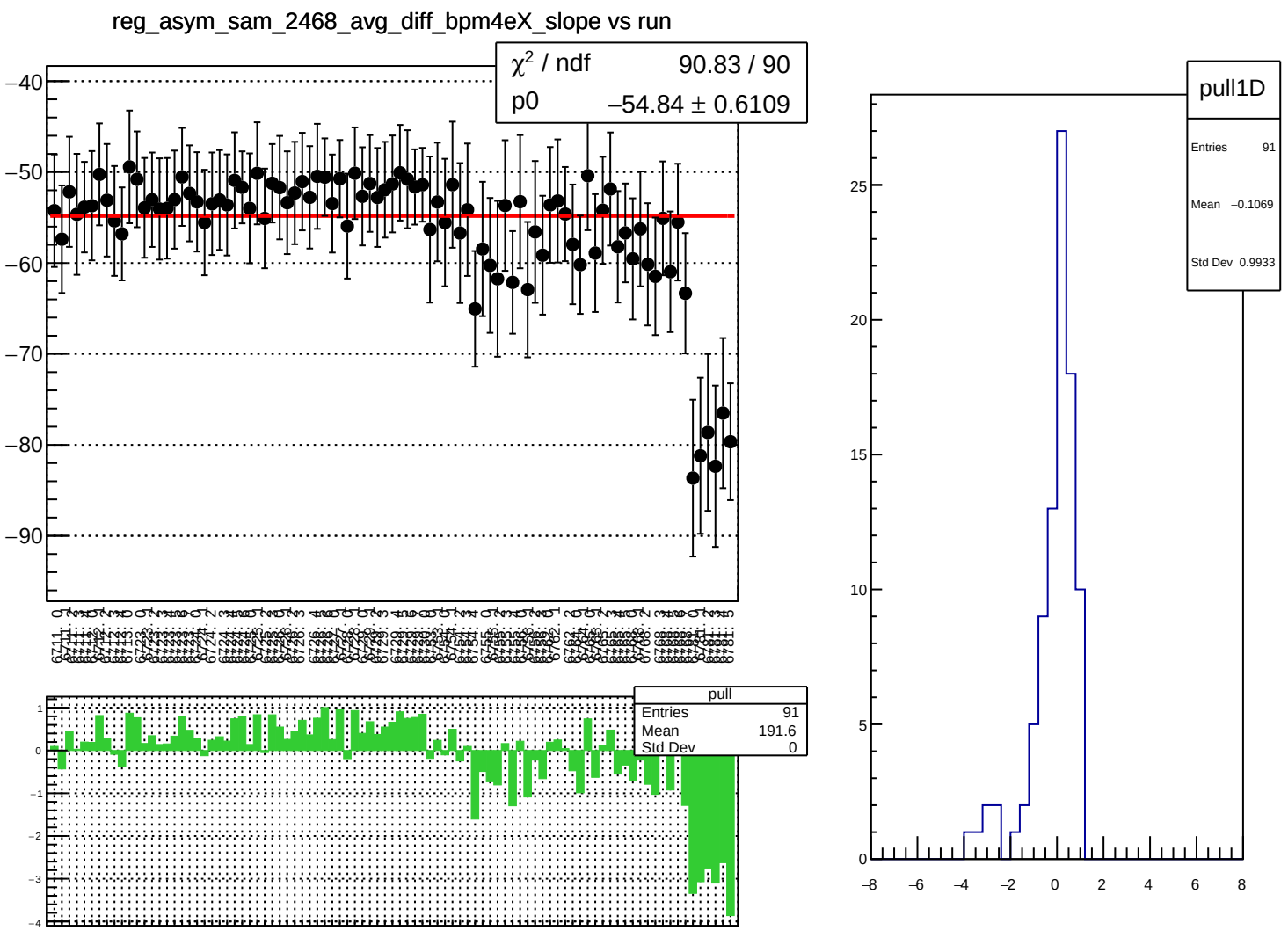

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 31.48 / 90
p0 0.1228 ± 0.01352
pull
Entries 91
Mean 247
Std Dev 0
pull1D
Entries 91
Mean 0.03146
Std Dev 0.5873

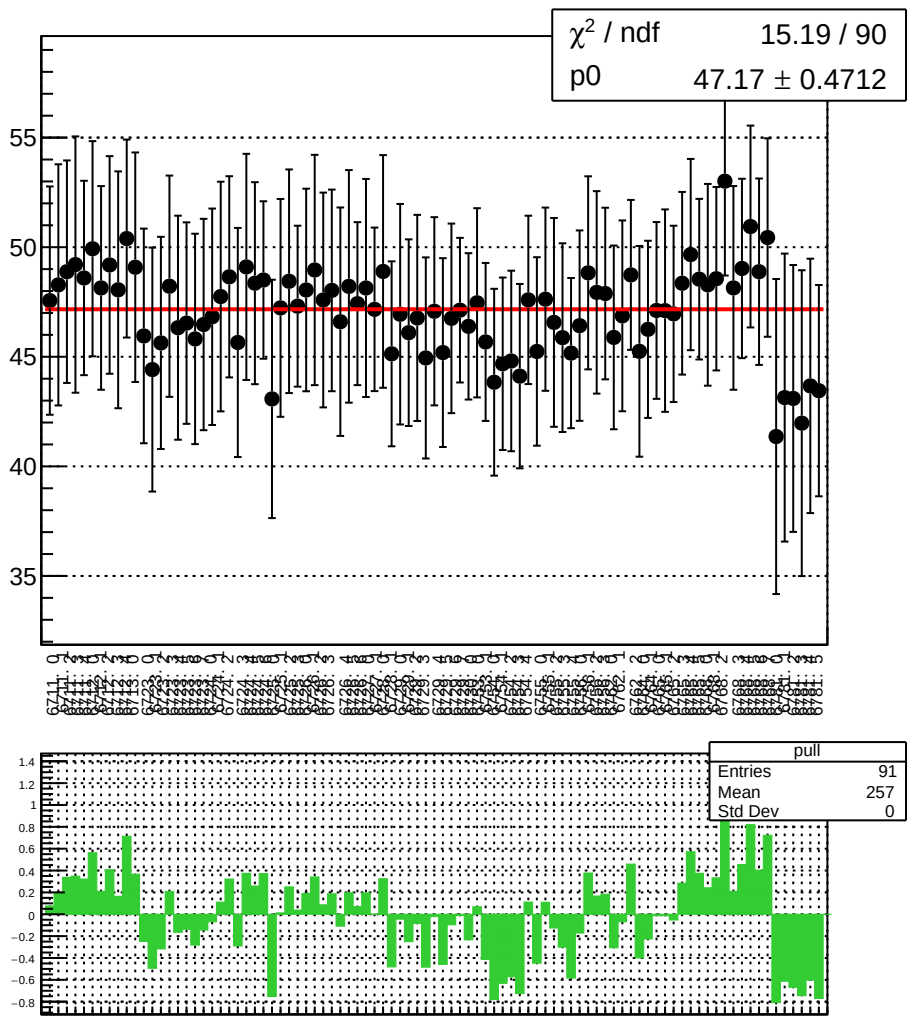

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 22.53 / 90
p0 −7.178 ± 0.6348
pull
Entries 91
Mean 220.2
Std Dev 0

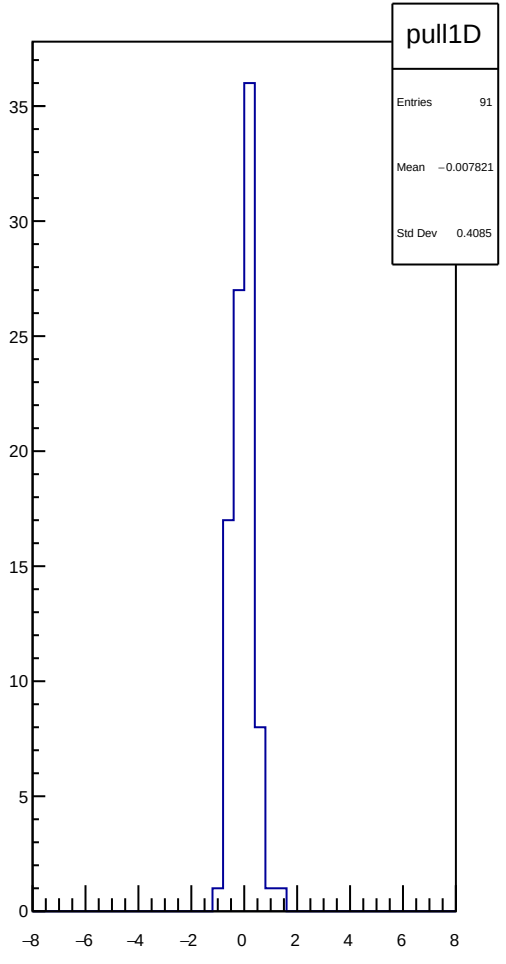

pull1D
Entries 91
Mean −0.04797
Std Dev 0.4952

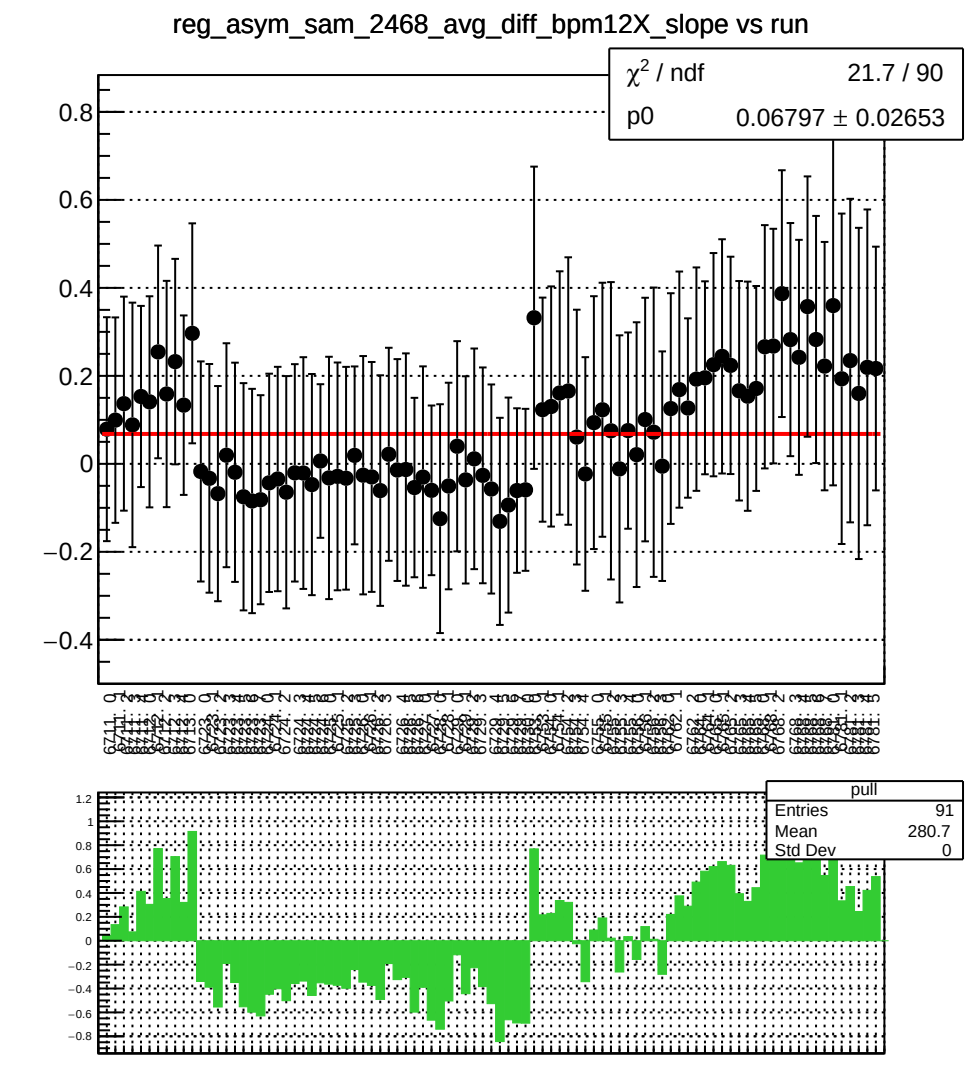

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.98 / 90
p0 −5.407 ± 0.3755
pull
Entries 91
Mean −352.3
Std Dev 0

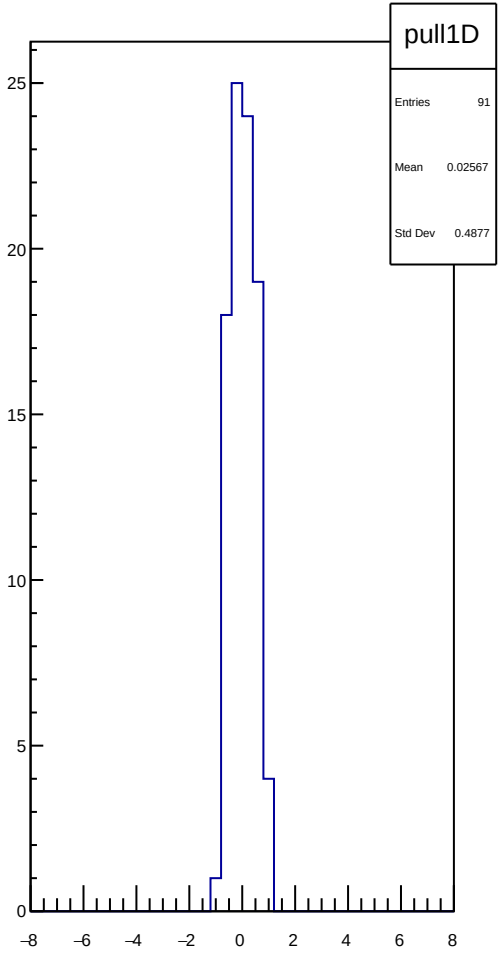

pull1D
Entries 91
Mean 0.01403
Std Dev 0.4055

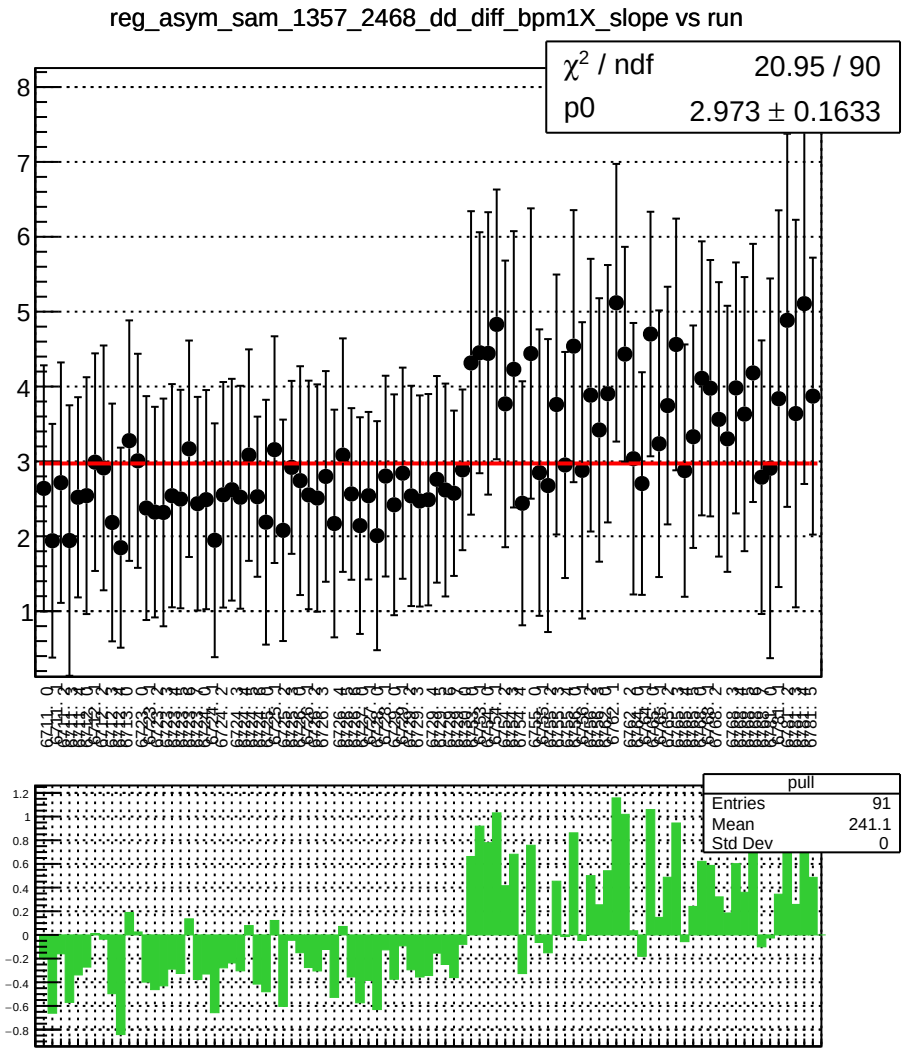

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 90.83 / 90
p0 −54.84 ± 0.6109
pull
Entries 91
Mean 191.6
Std Dev 0
pull1D
Entries 91
Mean −0.1069
Std Dev 0.9933

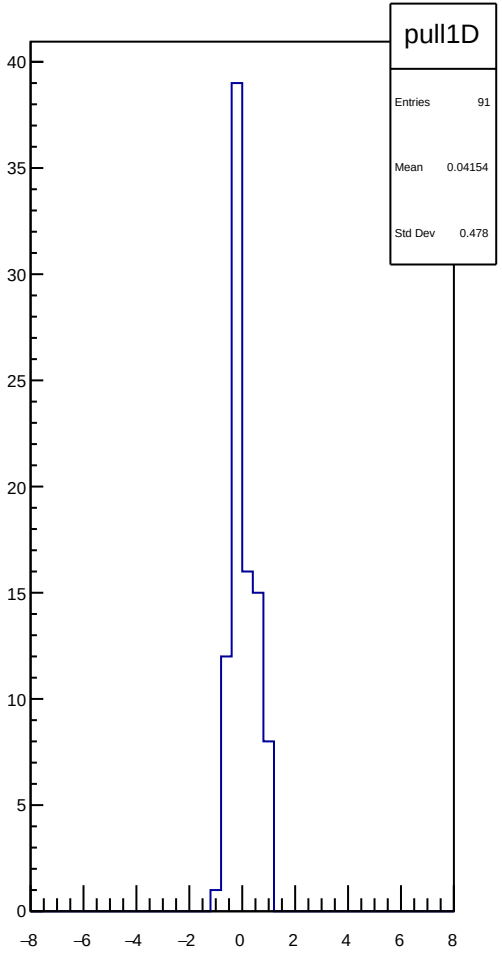

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.19 / 90
p0 47.17 ± 0.4712
pull
Entries 91
Mean 257
Std Dev 0

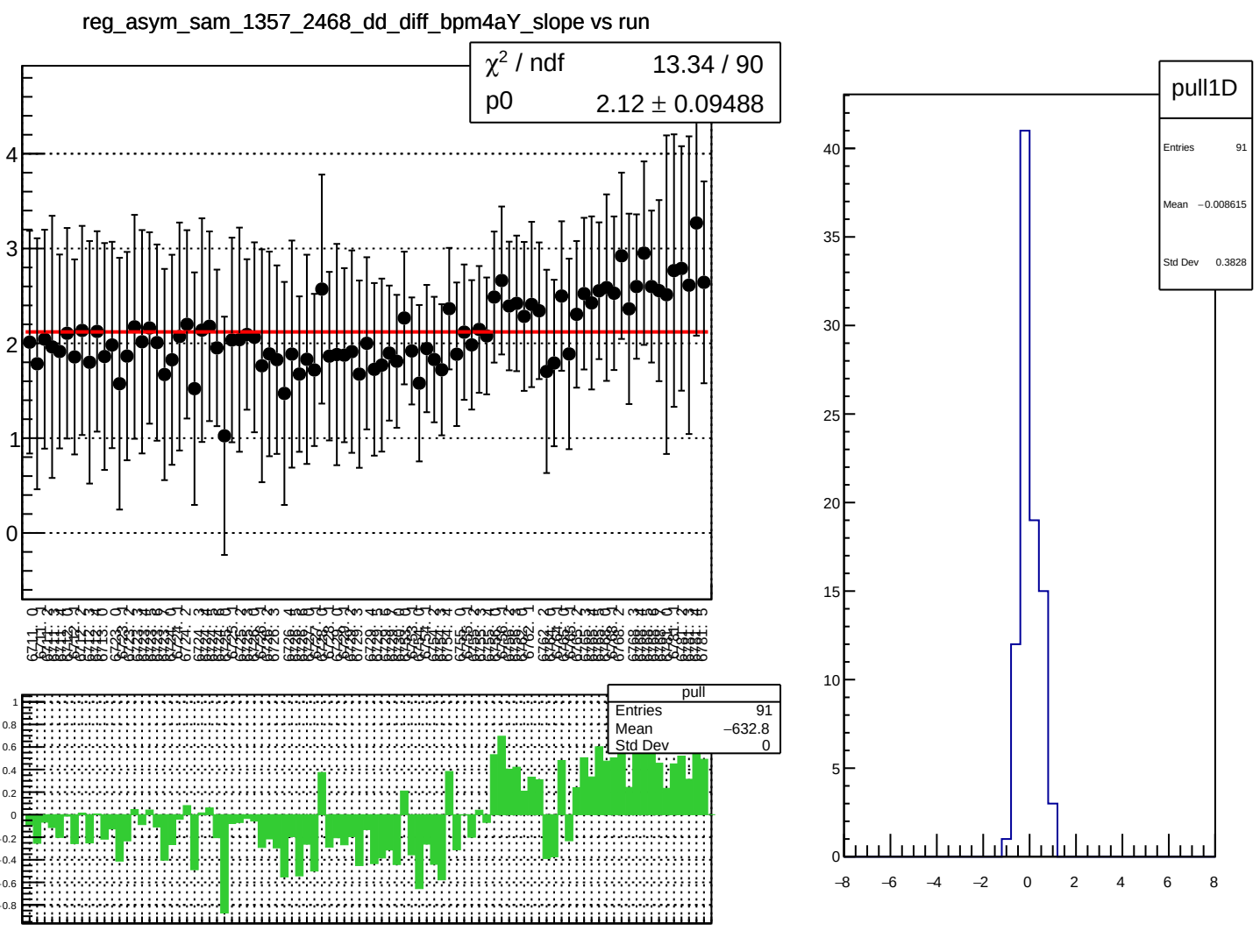

pull1D
Entries 91
Mean −0.007821
Std Dev 0.4085

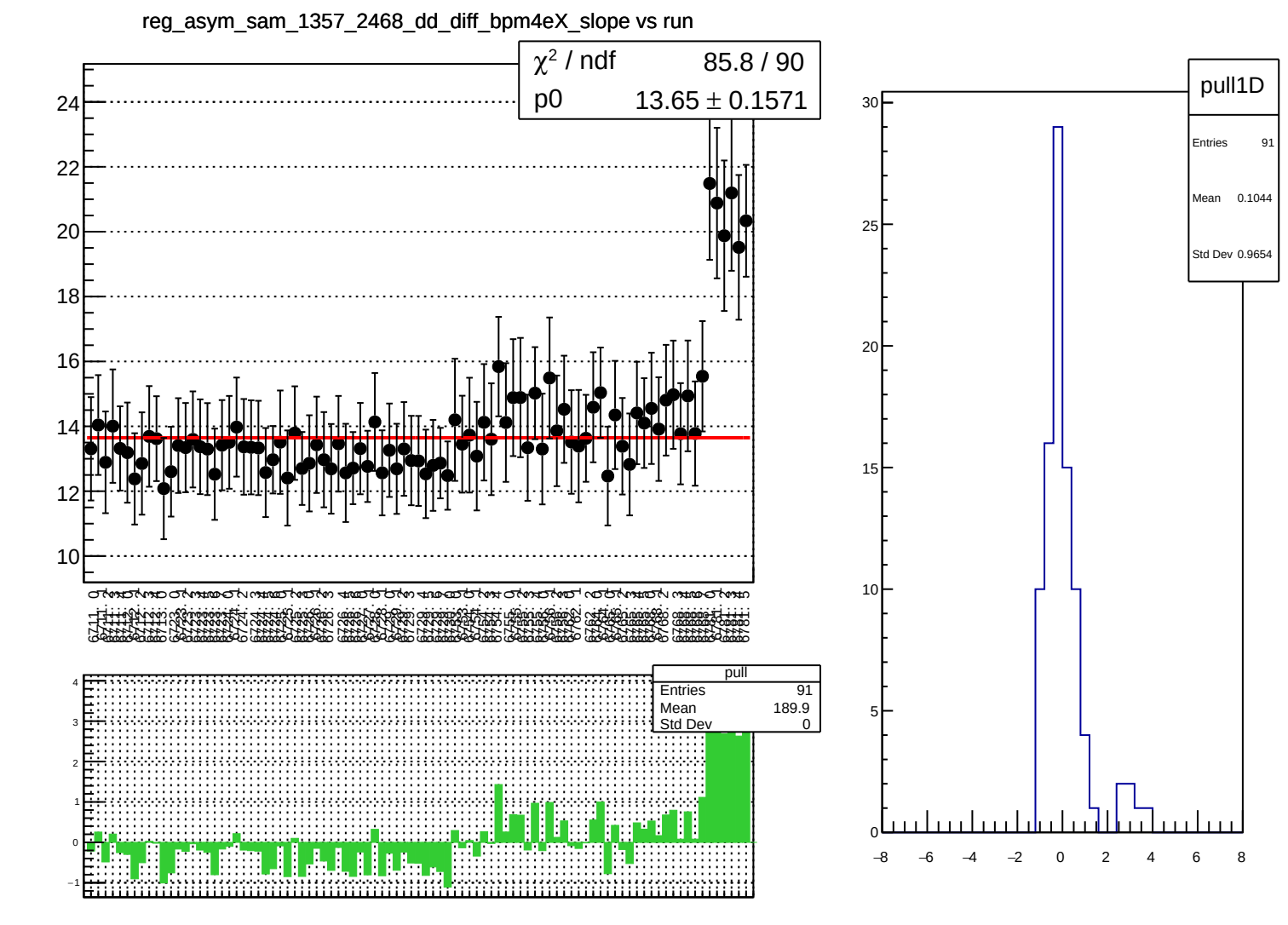

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 21.7 / 90
p0 0.06797 ± 0.02653
pull
Entries 91
Mean 280.7
Std Dev 0

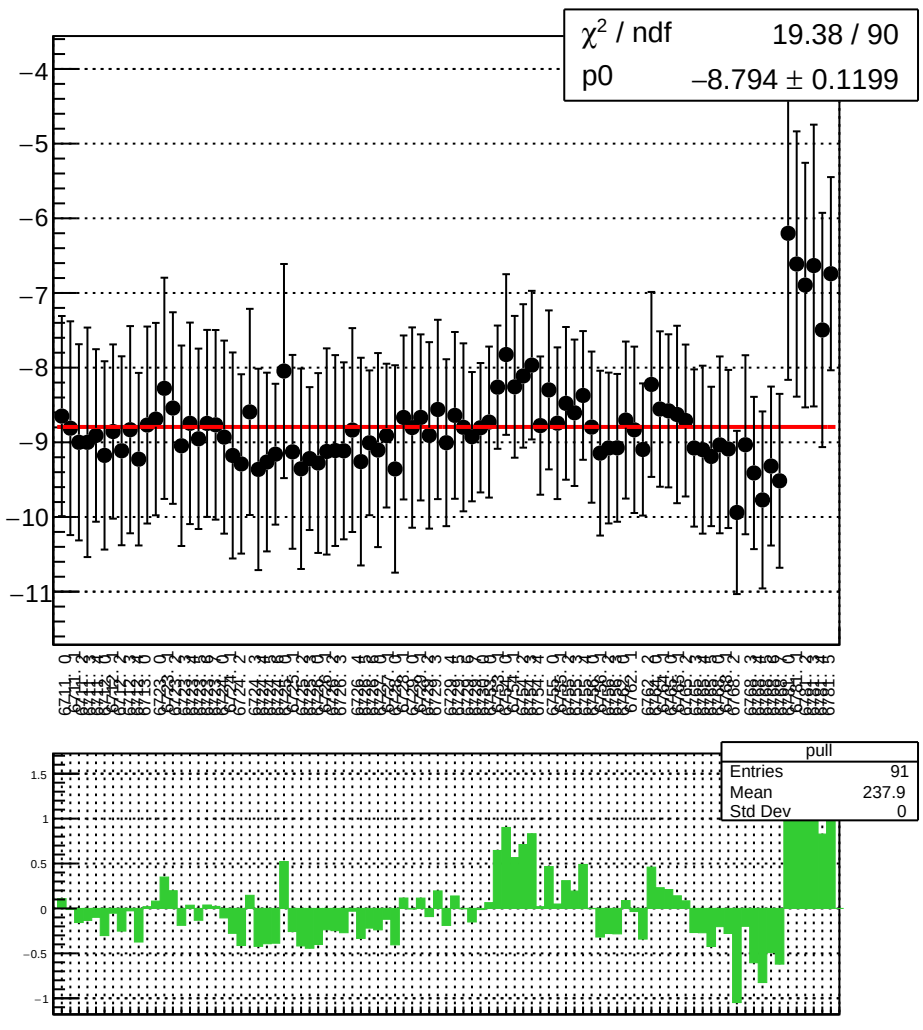

pull1D
Entries 91
Mean 0.02567
Std Dev 0.4877

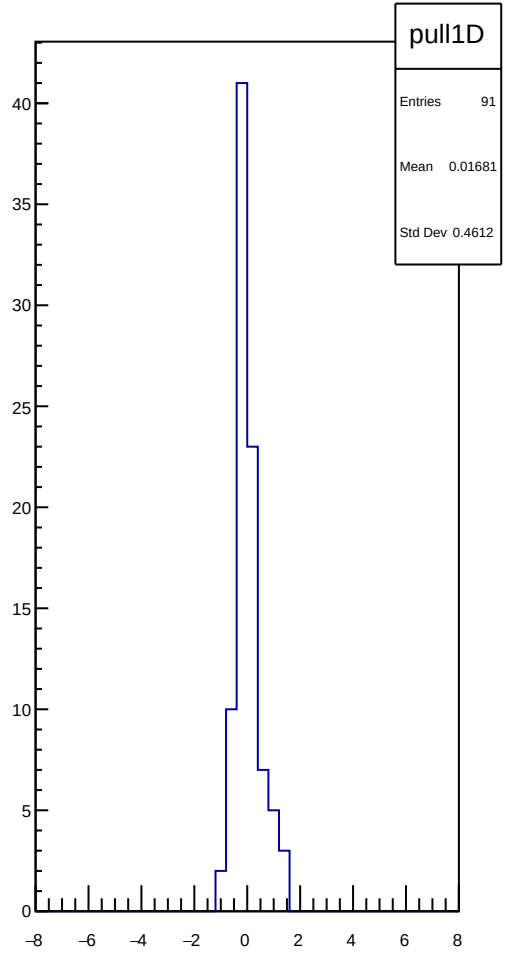

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 20.95 / 90
p0 2.973 ± 0.1633
pull
Entries 91
Mean 241.1
Std Dev 0

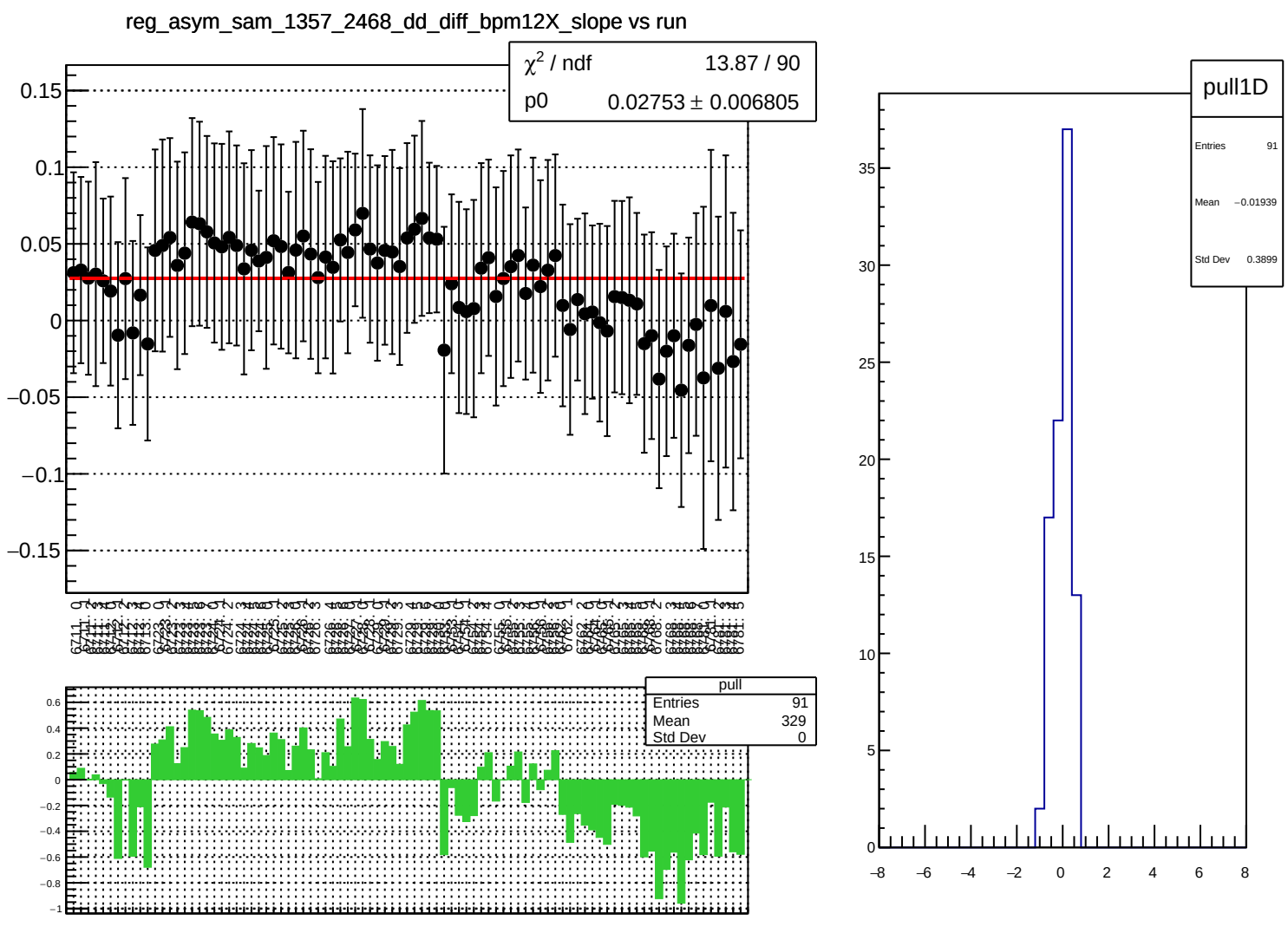

pull1D
Entries 91
Mean 0.04154
Std Dev 0.478

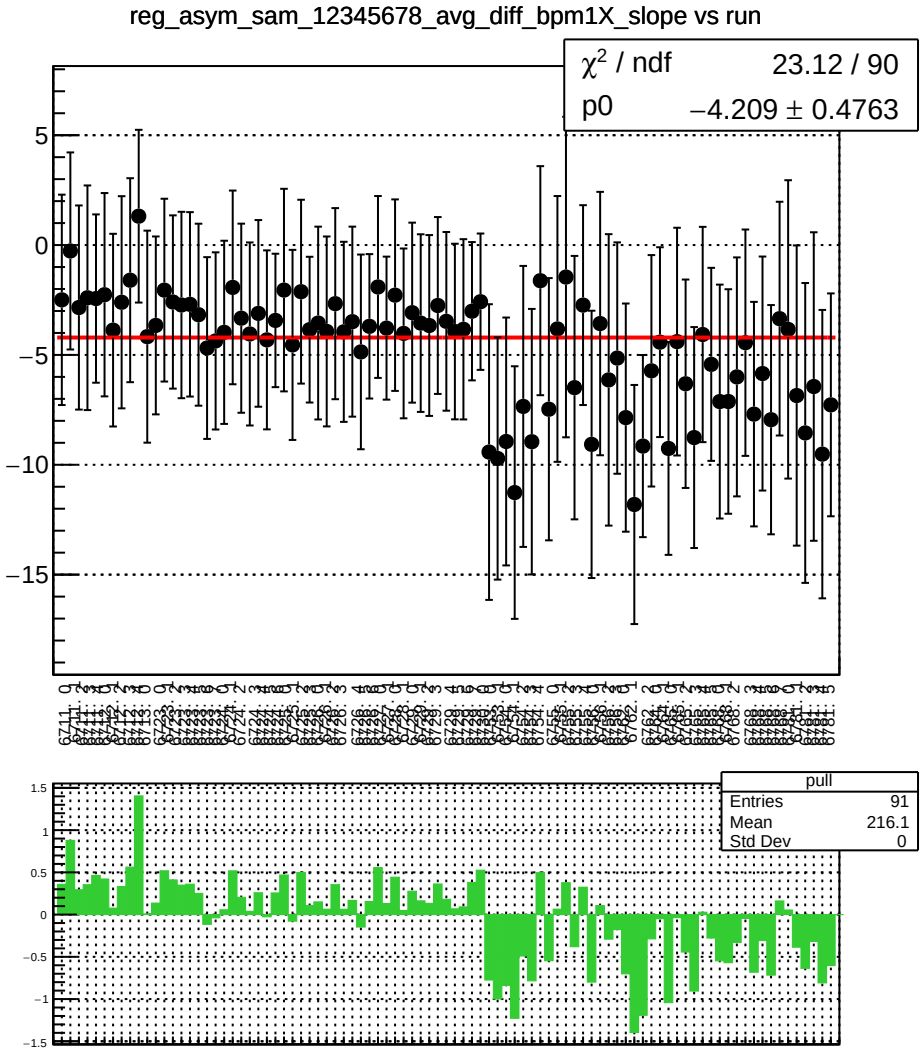

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.34 / 90
p0 2.12 ± 0.09488
pull
Entries 91
Mean −632.8
Std Dev 0
pull1D
Entries 91
Mean −0.008615
Std Dev 0.3828

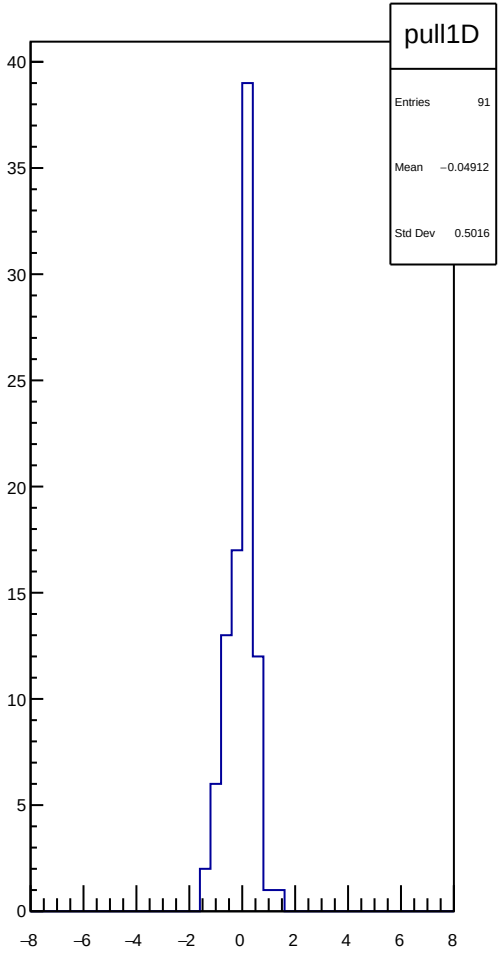

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 85.8 / 90
p0 13.65 ± 0.1571
pull
Entries 91
Mean 189.9
Std Dev 0
pull1D
Entries 91
Mean 0.1044
Std Dev 0.9654

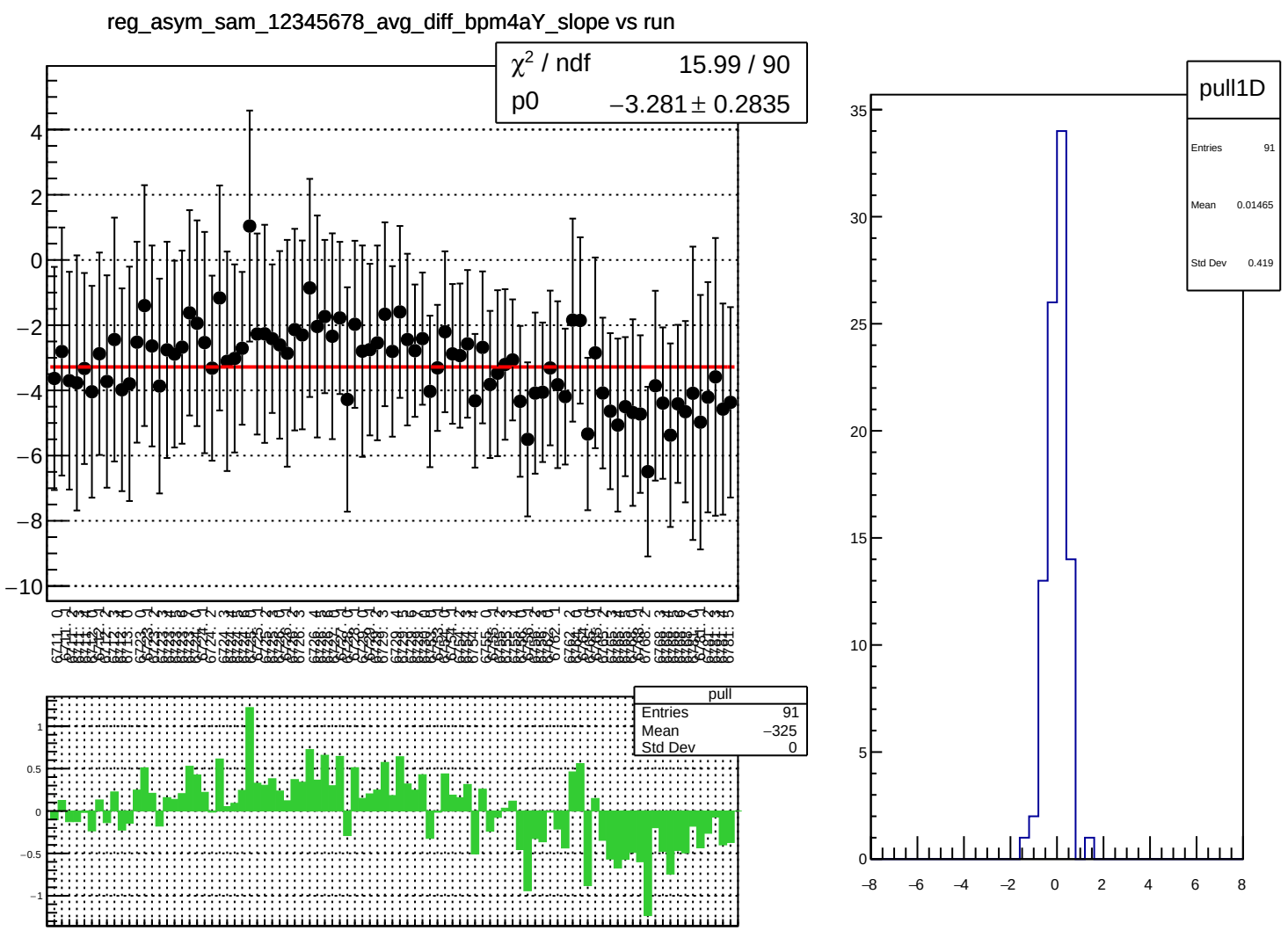

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.38 / 90
p0 −8.794 ± 0.1199
pull
Entries 91
Mean 237.9
Std Dev 0

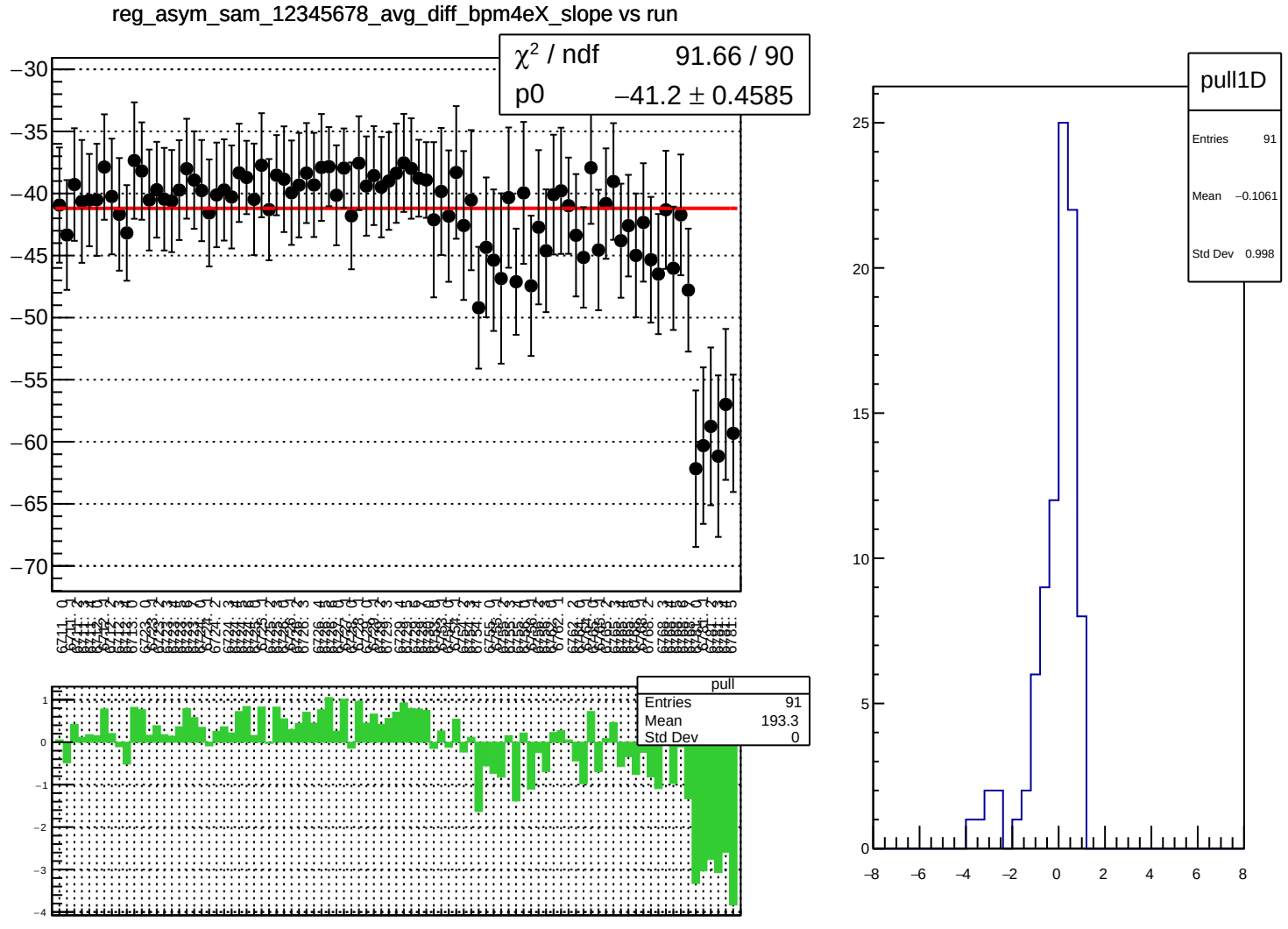

pull1D
Entries 91
Mean 0.01681
Std Dev 0.4612

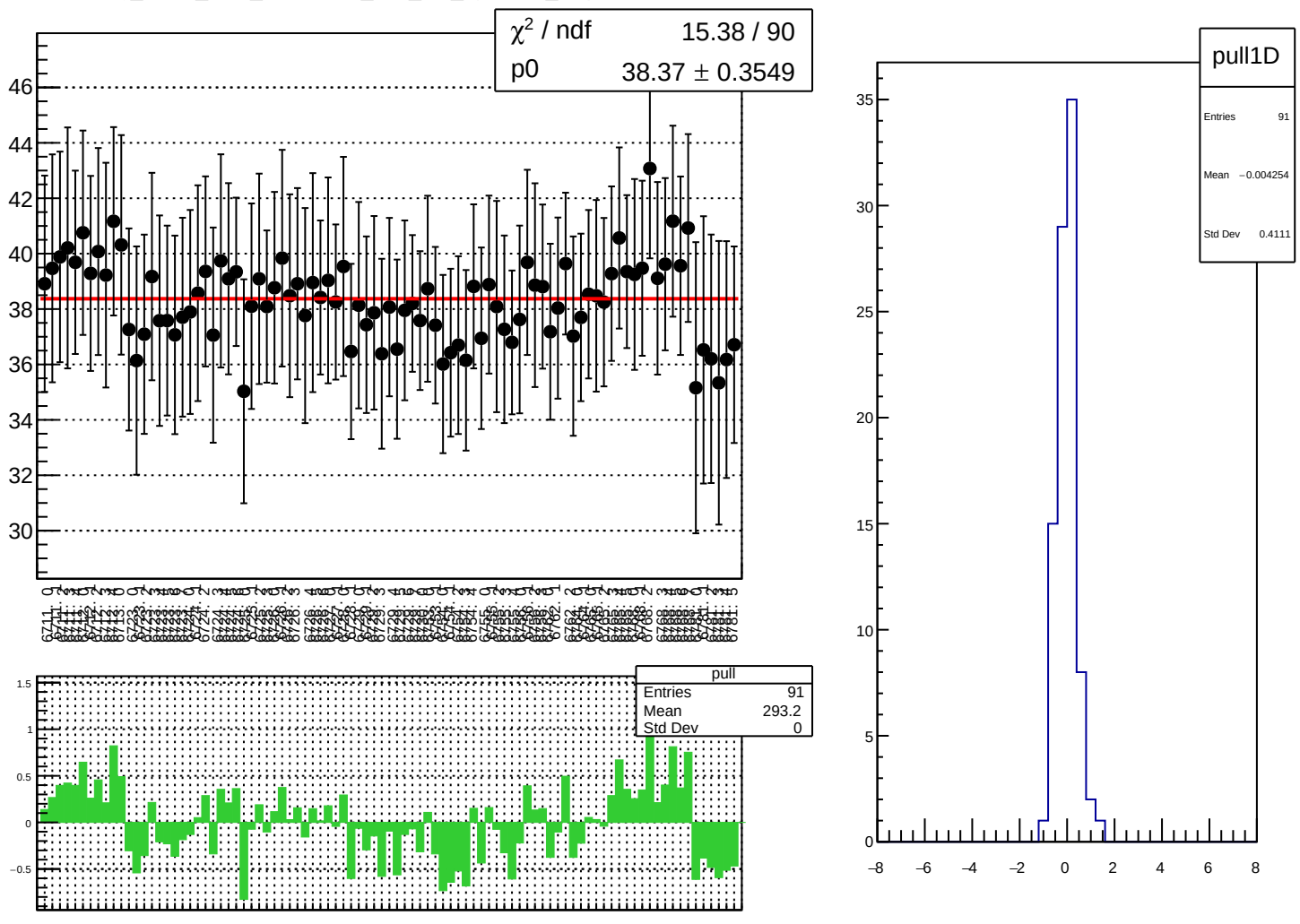

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 13.87 / 90
p0 0.02753 ± 0.006805
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 91
Mean 329
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 91
Mean −0.01939
Std Dev 0.3899
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

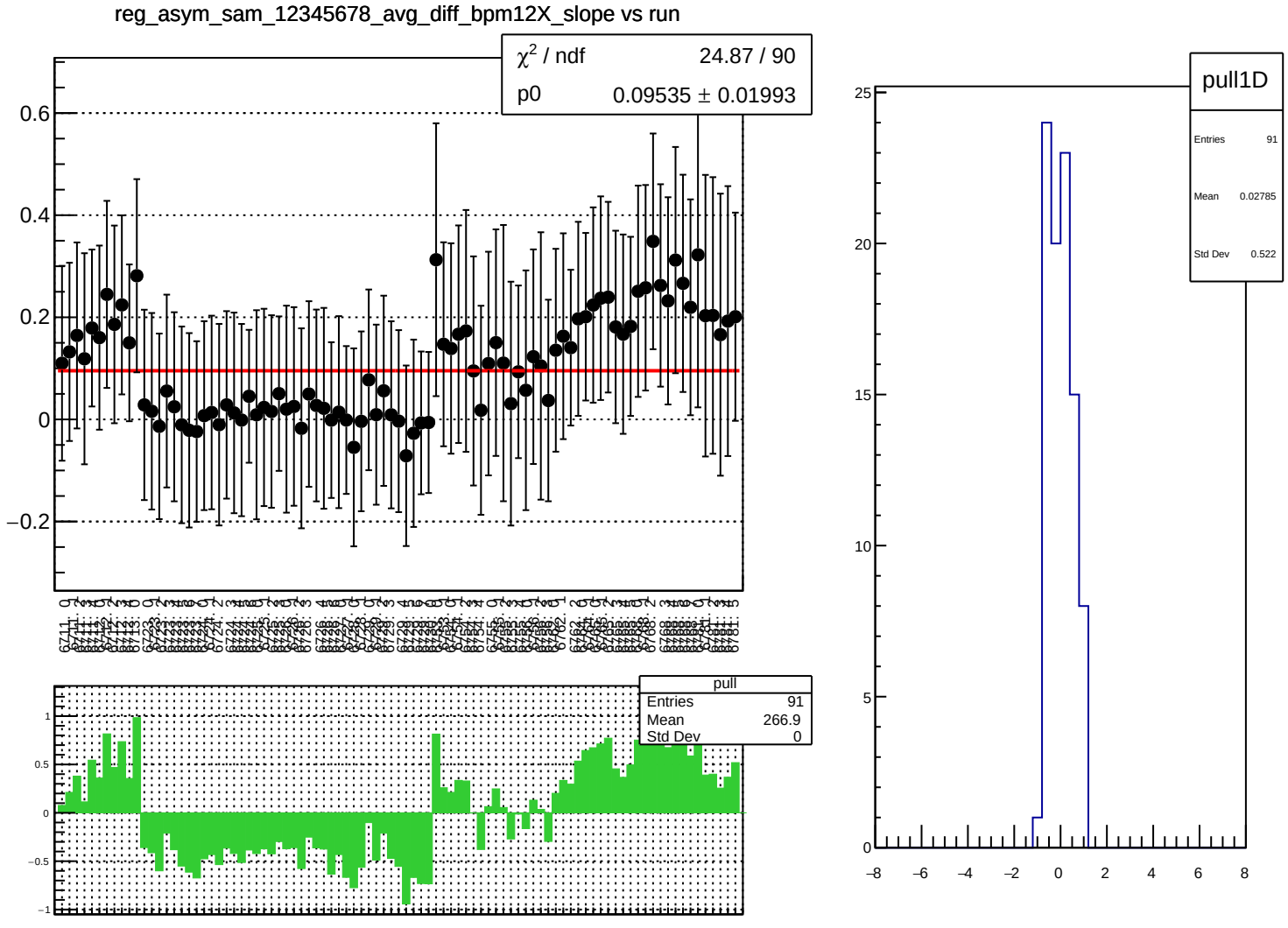

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 23.12 / 90
p0 −4.209 ± 0.4763
pull
Entries 91
Mean 216.1
Std Dev 0

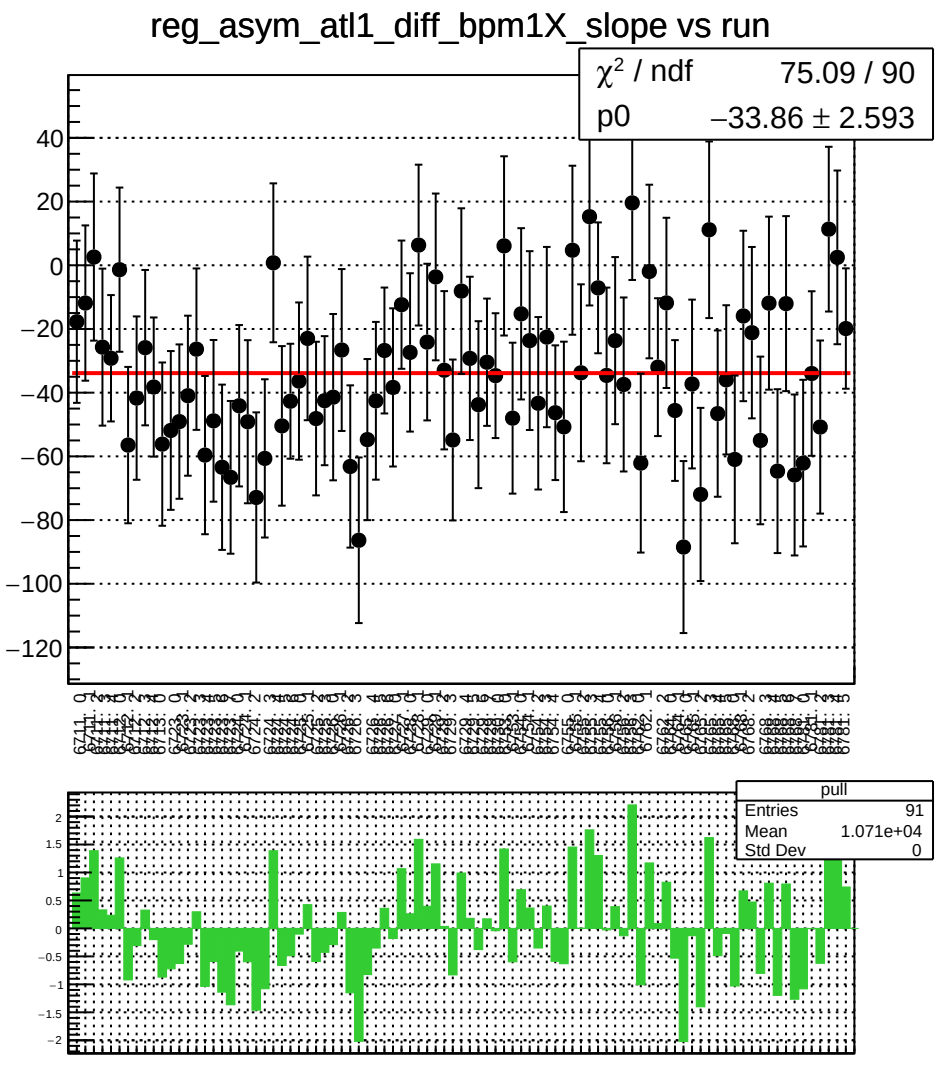

pull1D
Entries 91
Mean −0.04912
Std Dev 0.5016

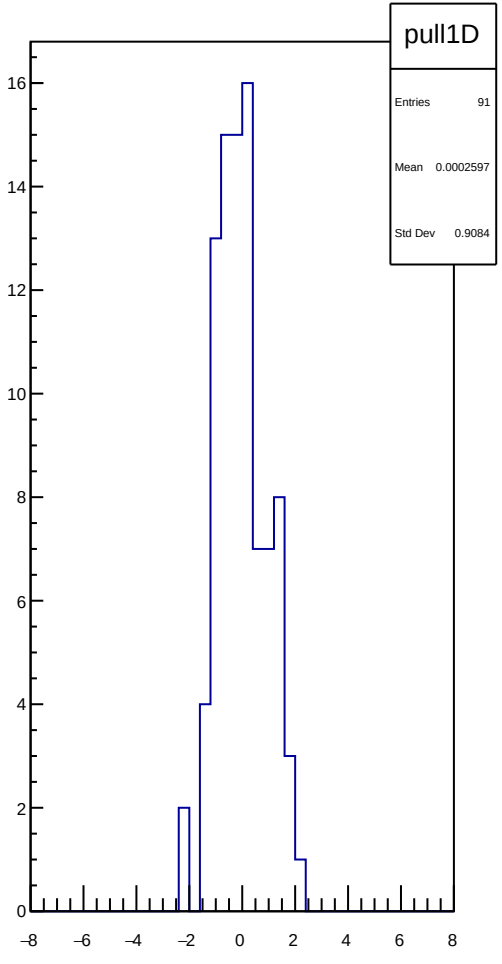

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.99 / 90
p0 −3.281 ± 0.2835
pull
Entries 91
Mean −325
Std Dev 0
pull1D
Entries 91
Mean 0.01465
Std Dev 0.419

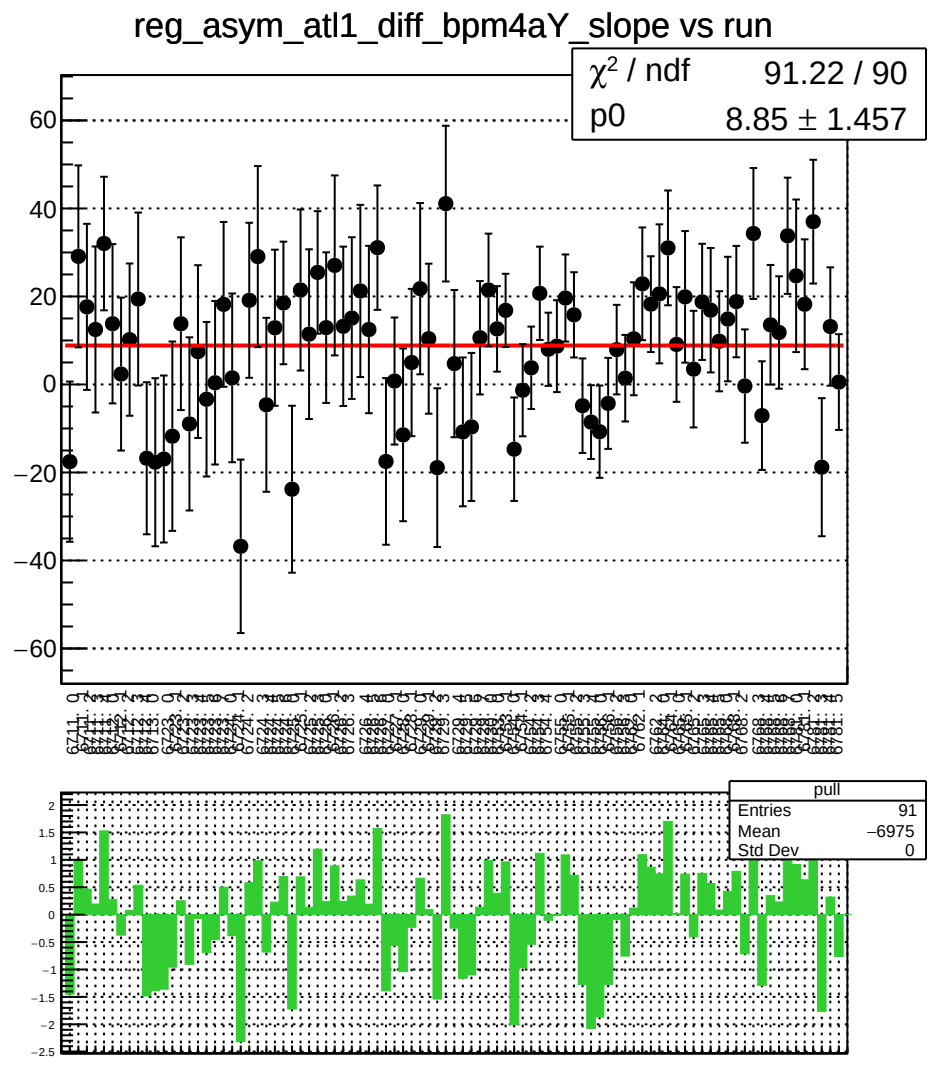

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 91.66 / 90
p0 −41.2 ± 0.4585
pull
Entries 91
Mean 193.3
Std Dev 0
pull1D
Entries 91
Mean −0.1061
Std Dev 0.998

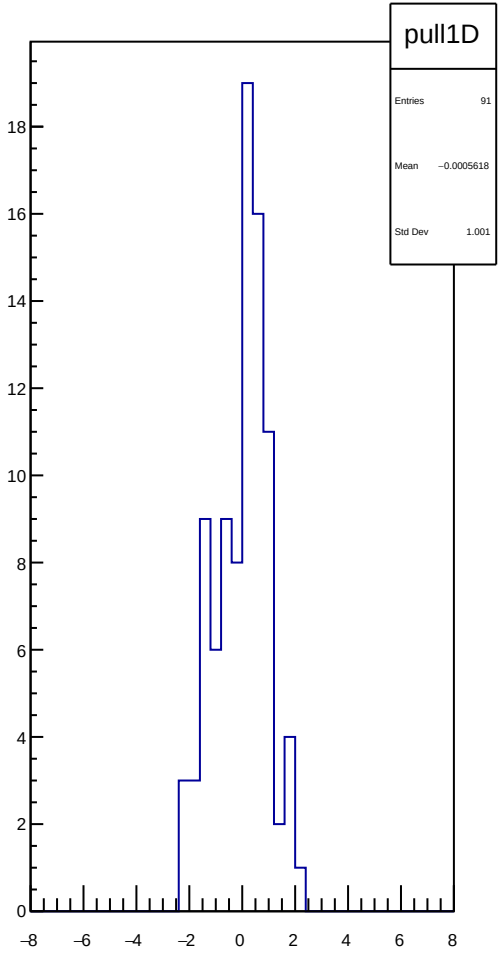

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.38 / 90
p0 38.37 ± 0.3549
pull
Entries 91
Mean 293.2
Std Dev 0
pull1D
Entries 91
Mean −0.004254
Std Dev 0.4111

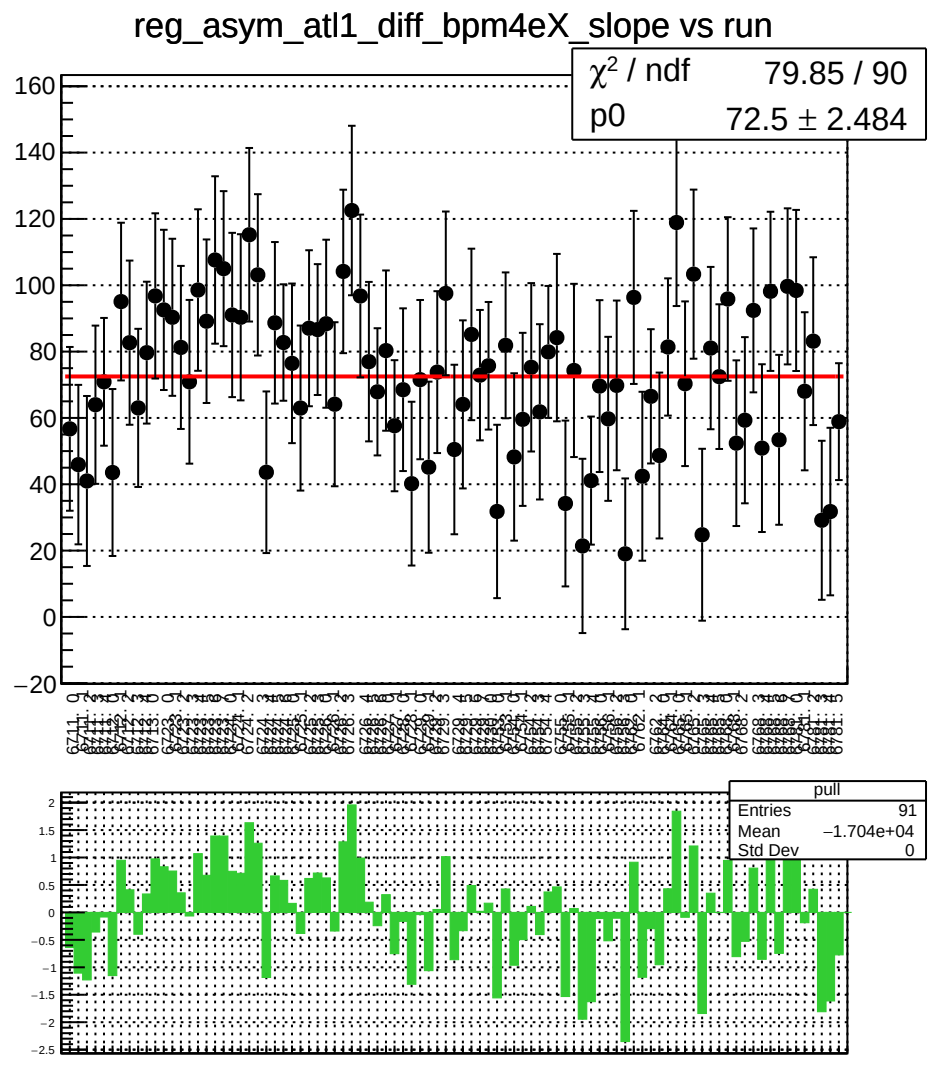

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 24.87 / 90
p0 0.09535 ± 0.01993
pull
Entries 91
Mean 266.9
Std Dev 0
pull1D
Entries 91
Mean 0.02785
Std Dev 0.522

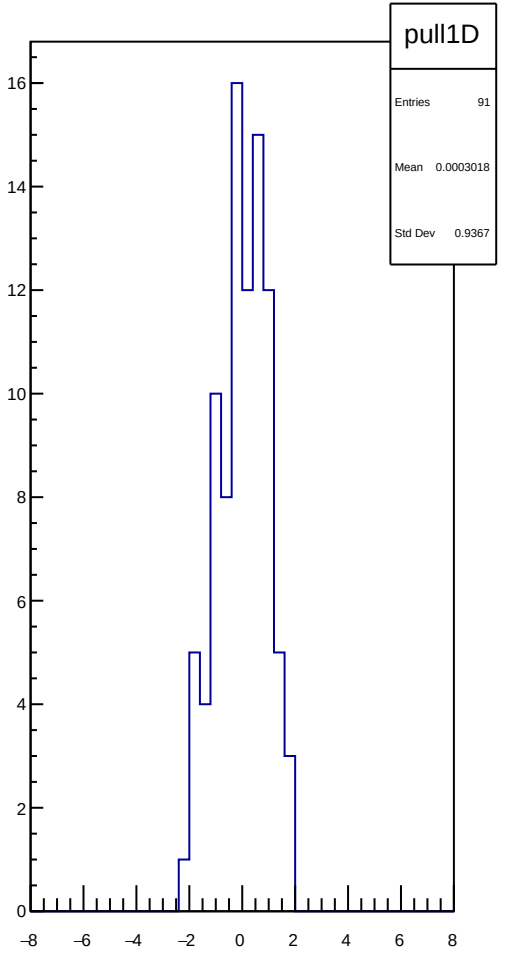

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 75.09 / 90
p0 −33.86 ± 2.593
pull
Entries 91
Mean 1.071e+04
Std Dev 0

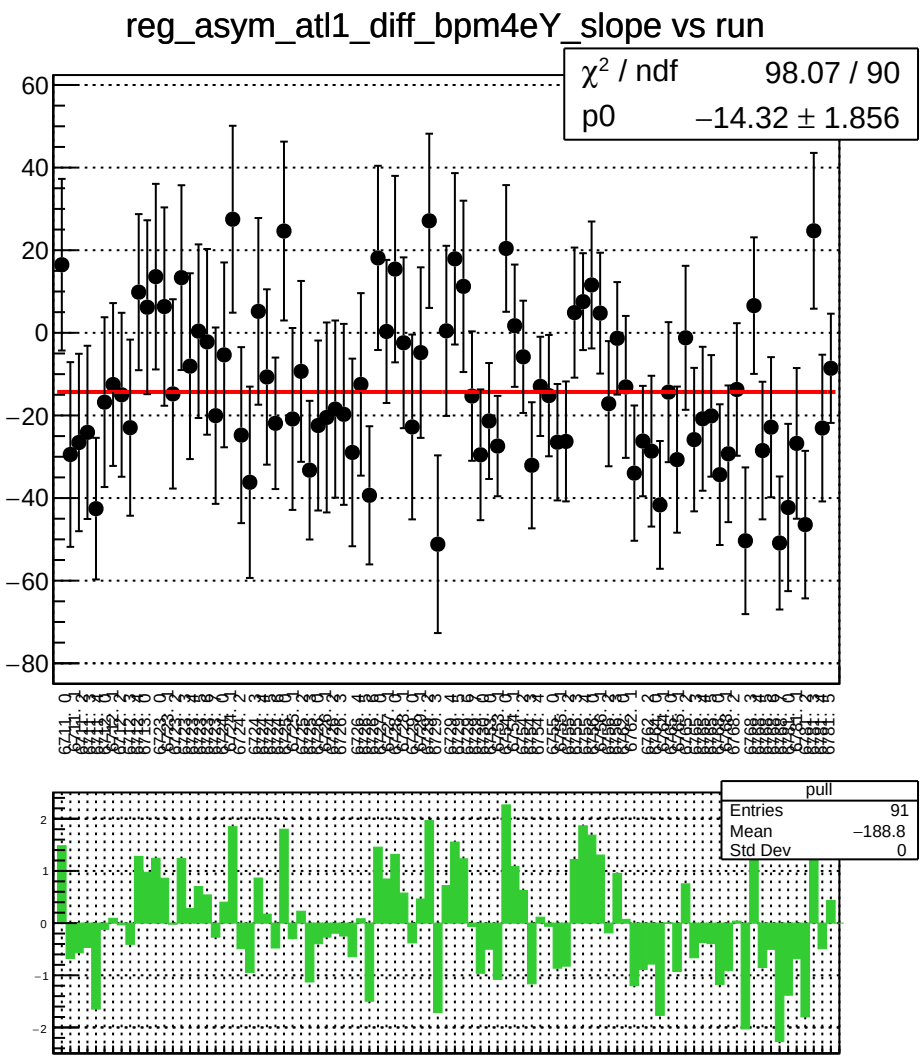

pull1D
Entries 91
Mean 0.0002597
Std Dev 0.9084

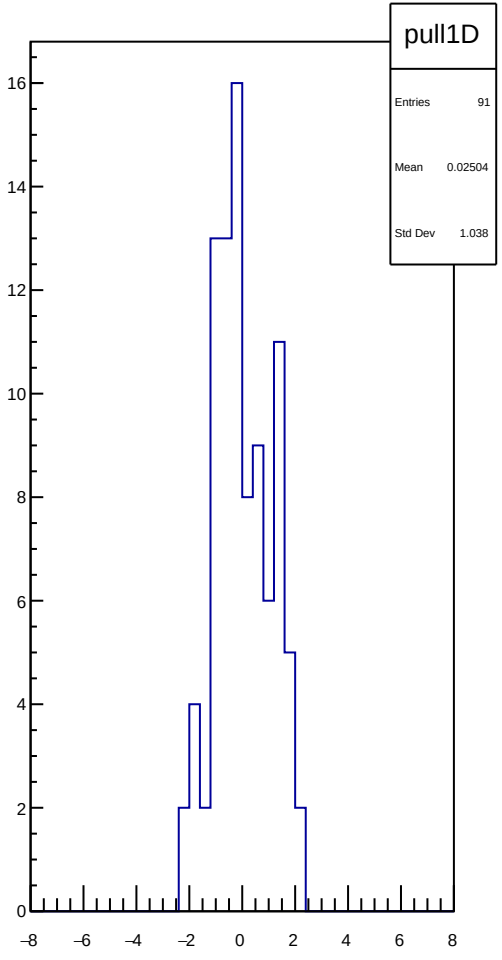

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 91.22 / 90
p0 8.85 ± 1.457
pull
Entries 91
Mean −6975
Std Dev 0

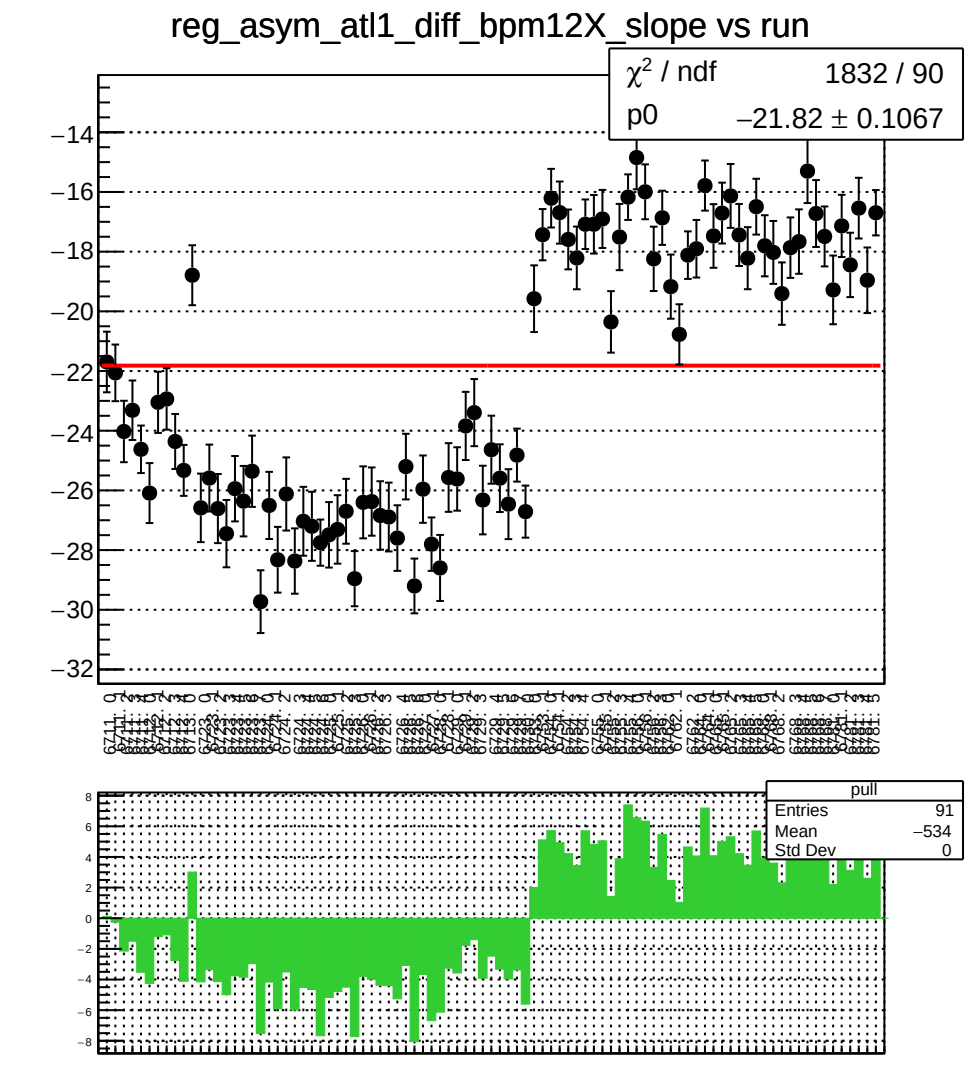

pull1D
Entries 91
Mean −0.0005618
Std Dev 1.001

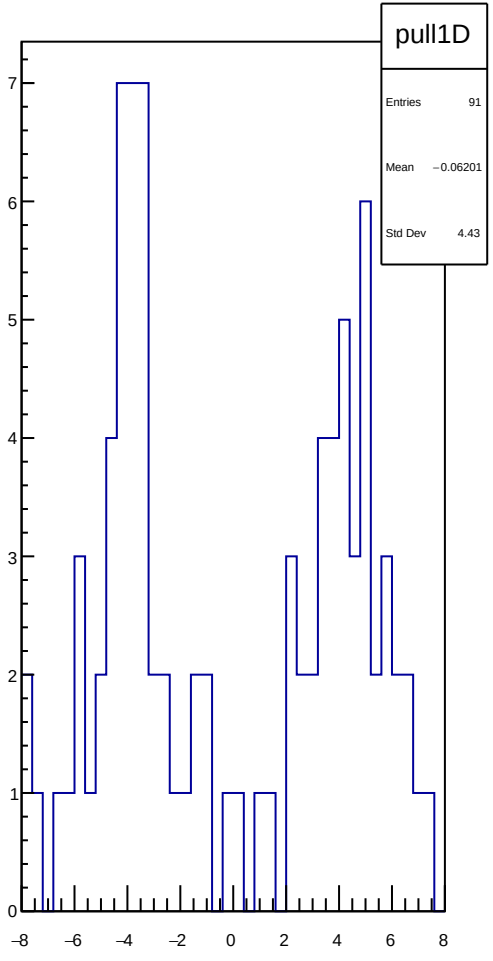

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 79.85 / 90
p0 72.5 ± 2.484
pull
Entries 91
Mean −1.704e+04
Std Dev 0

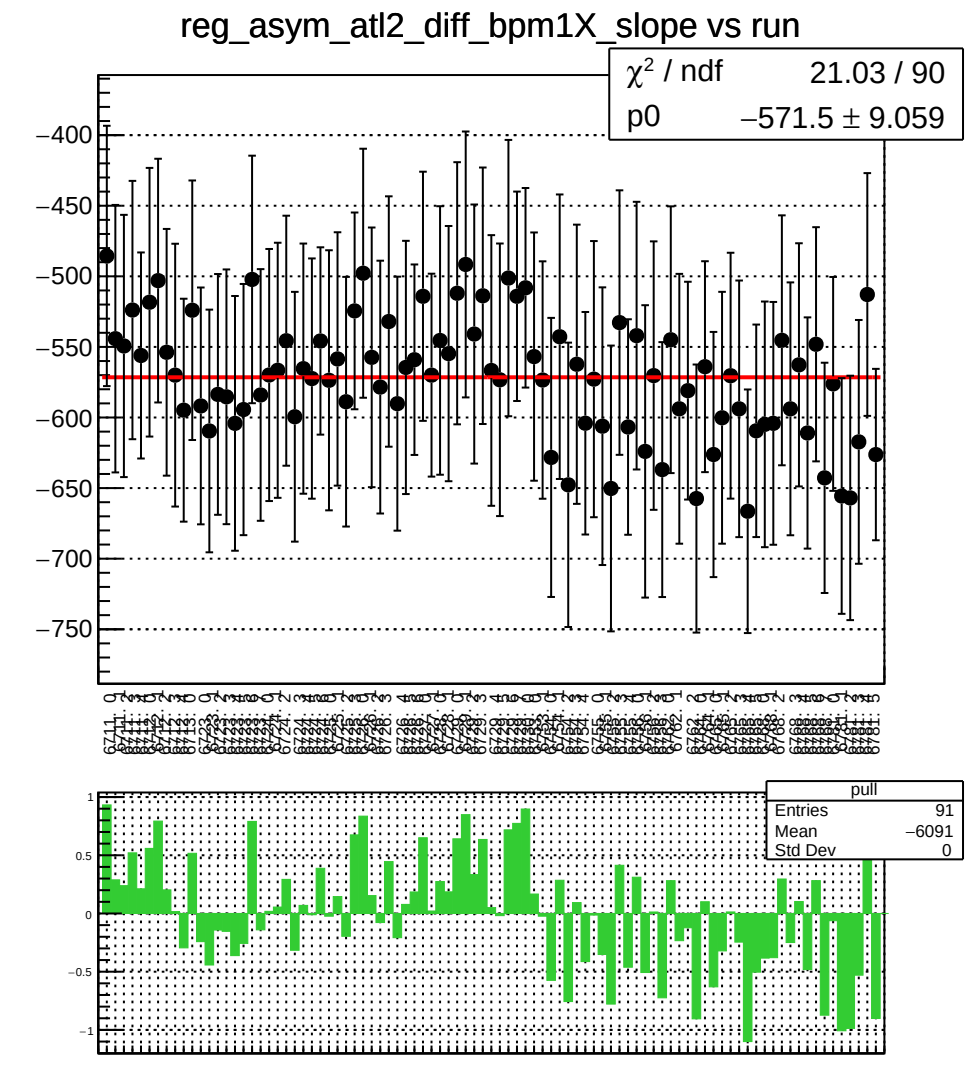

pull1D
Entries 91
Mean 0.0003018
Std Dev 0.9367

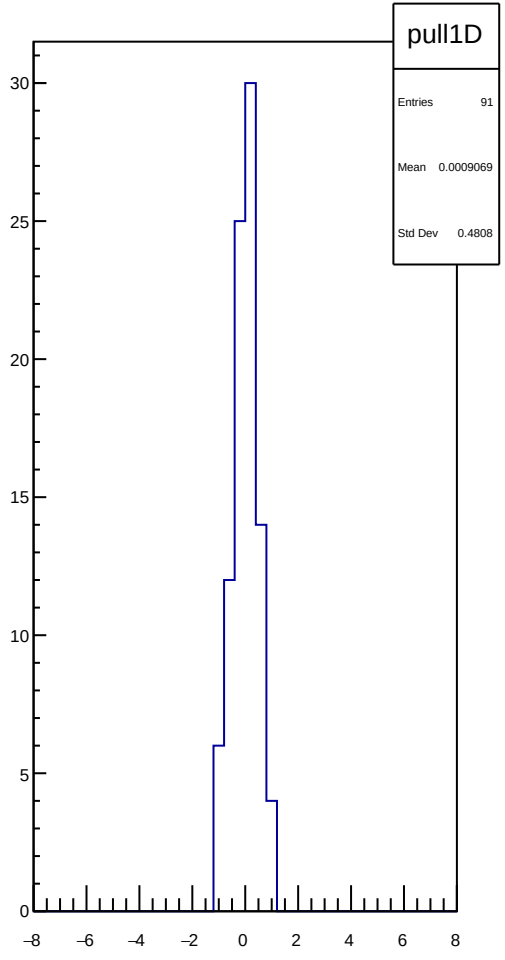

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 98.07 / 90
p0 −14.32 ± 1.856
pull
Entries 91
Mean −188.8
Std Dev 0

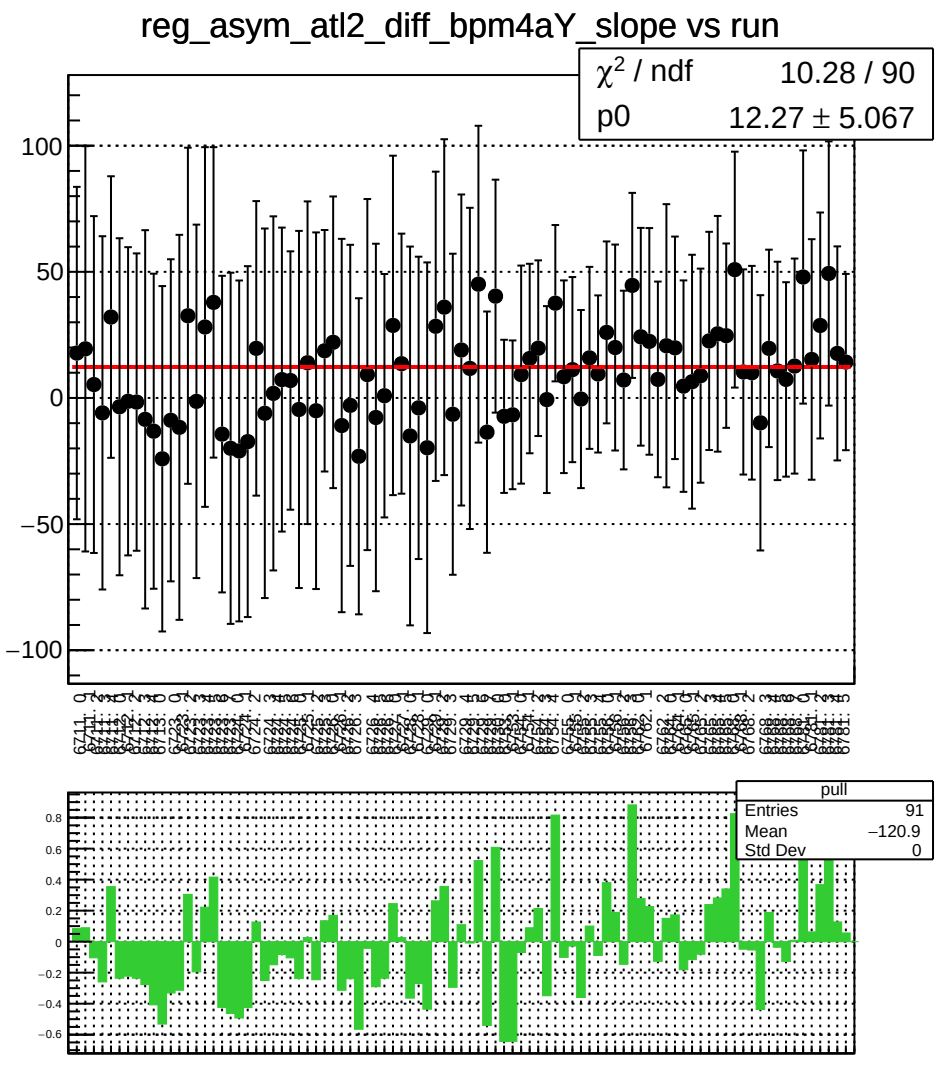

pull1D
Entries 91
Mean 0.02504
Std Dev 1.038

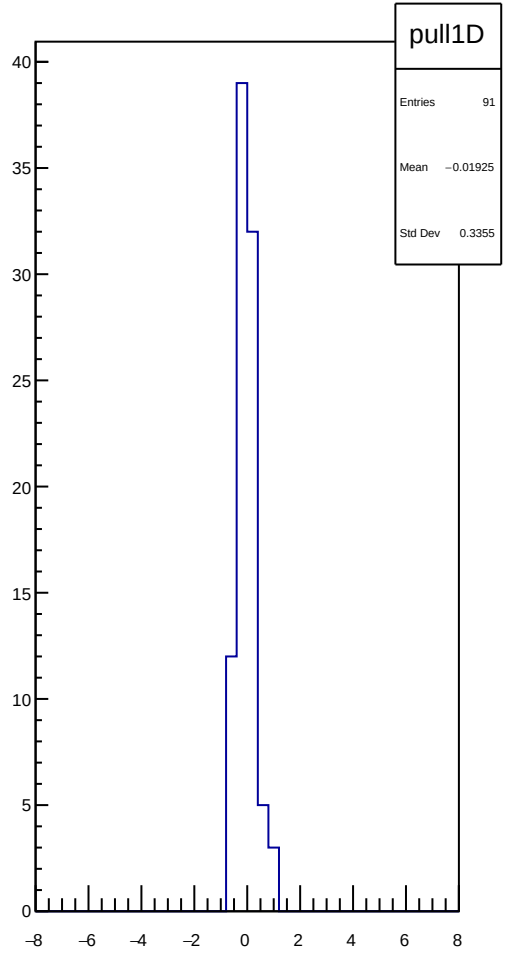

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 1832 / 90
p0 −21.82 ± 0.1067
pull
Entries 91
Mean −534
Std Dev 0

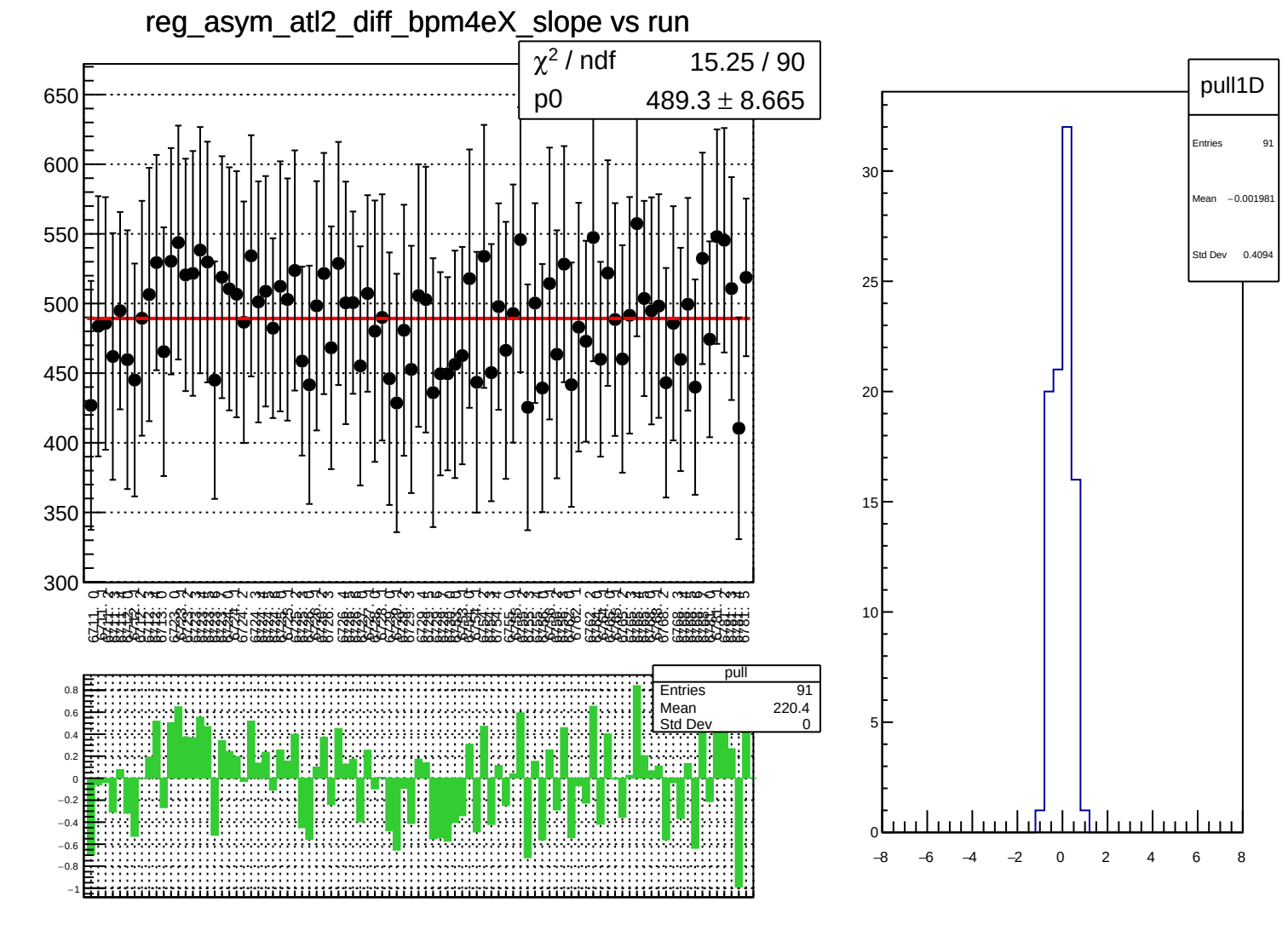

pull1D
Entries 91
Mean −0.06201
Std Dev 4.43

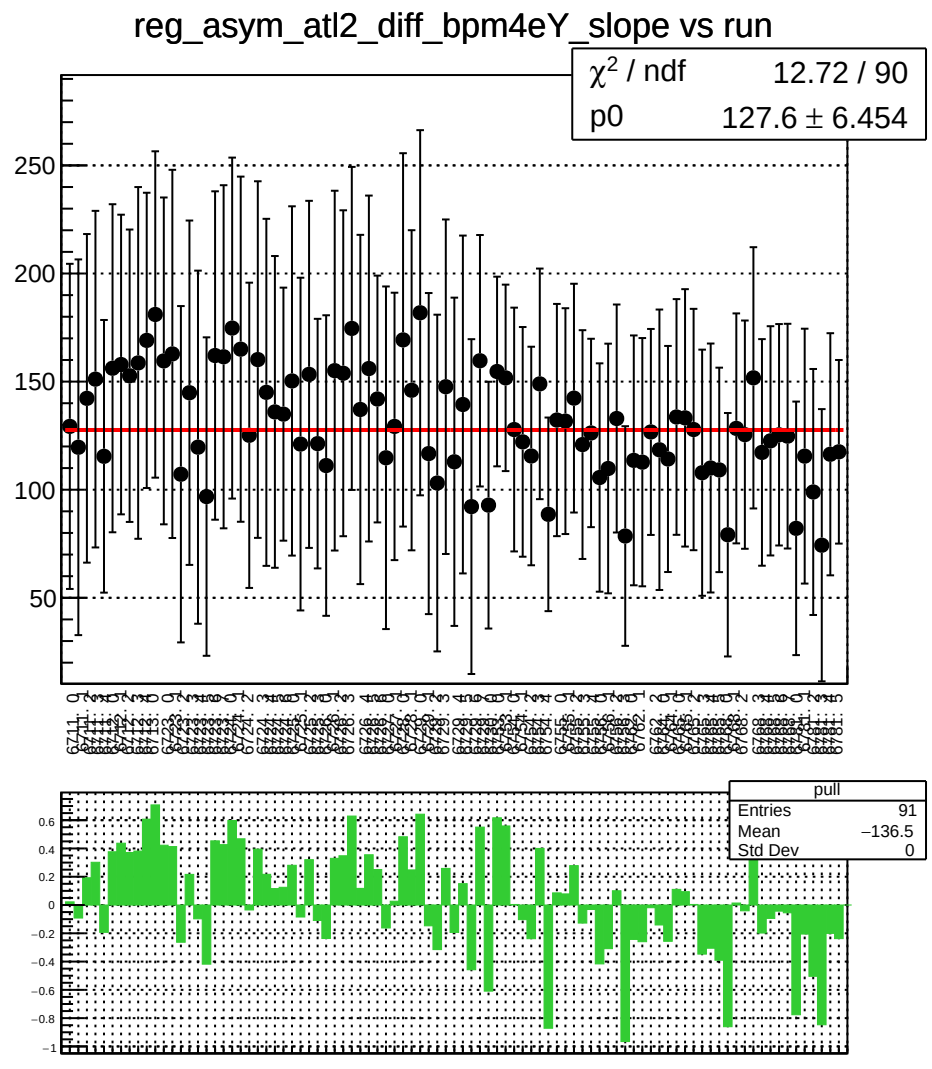

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 21.03 / 90
p0 −571.5 ± 9.059
−400
−450
−500
−550
−600
−650
−700
−750
pull
Entries 91
Mean −6091
Std Dev 0
1
0.5
0
−0.5
−1

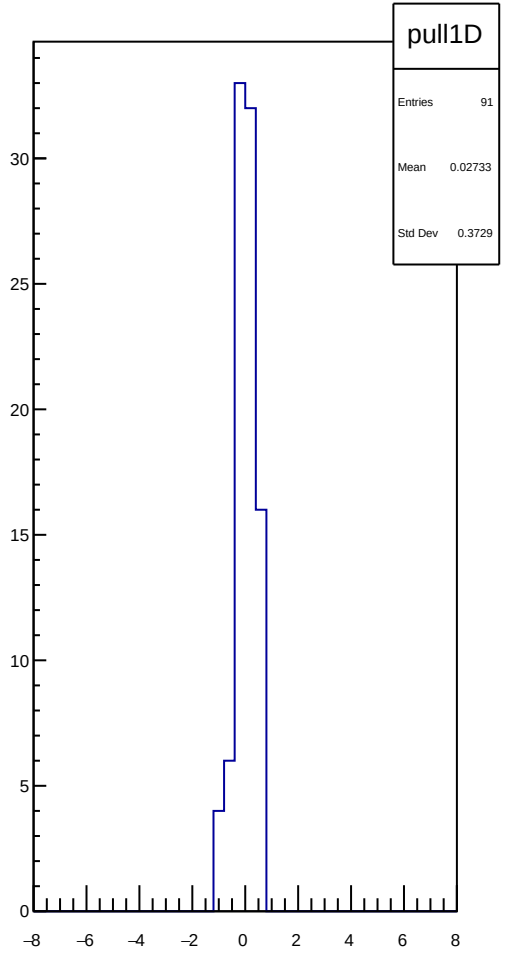

pull1D
Entries 91
Mean 0.0009069
Std Dev 0.4808
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

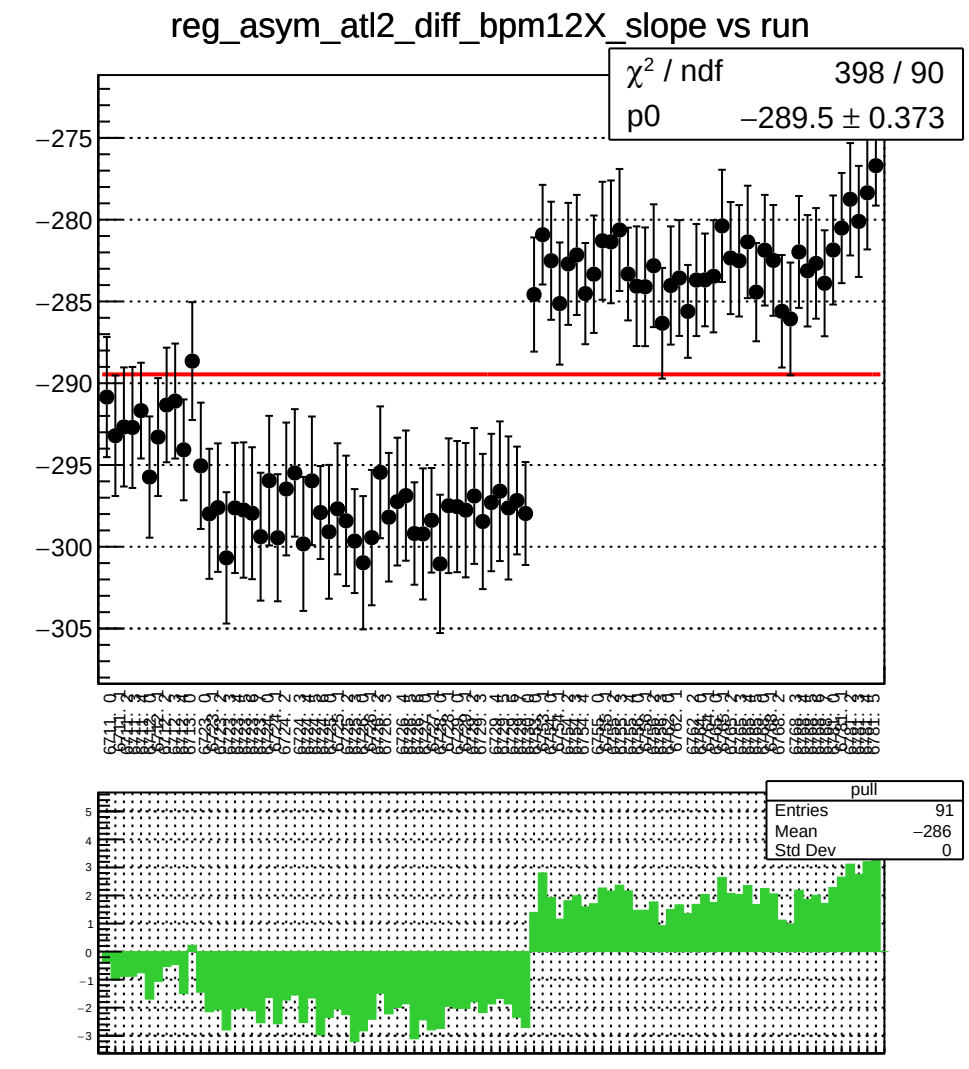

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 10.28 / 90
p0 12.27 ± 5.067
100
50
0
−50
−100
pull
Entries 91
Mean −120.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

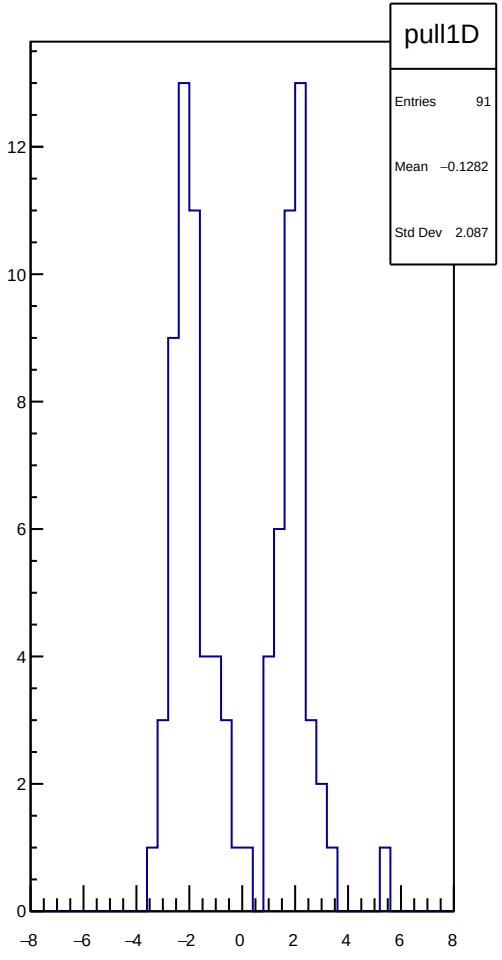

pull1D
Entries 91
Mean −0.01925
Std Dev 0.3355
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

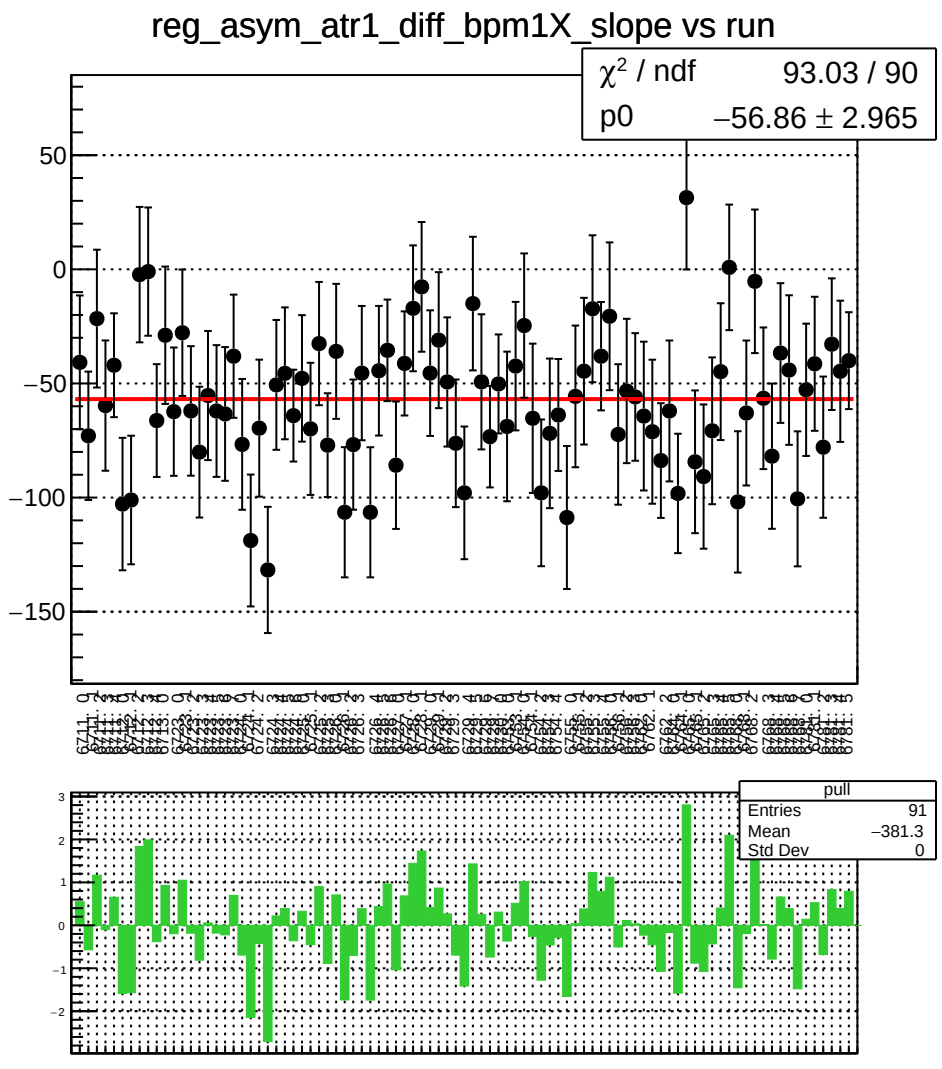

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 15.25 / 90
p0 489.3 ± 8.665
650
600
550
500
450
400
350
300
pull
Entries 91
Mean 220.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 91
Mean −0.001981
Std Dev 0.4094
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

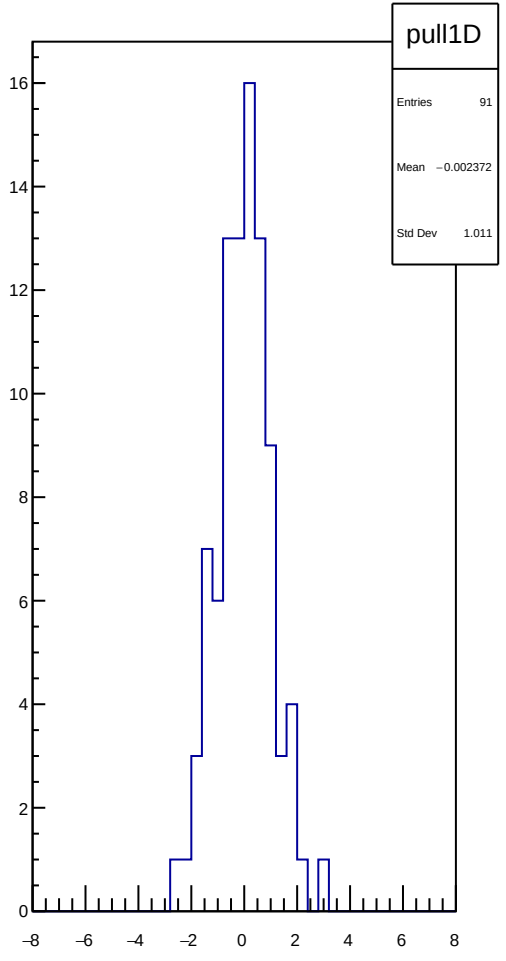

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 12.72 / 90
p0 127.6 ± 6.454
250
200
150
100
50
pull
Entries 91
Mean −136.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

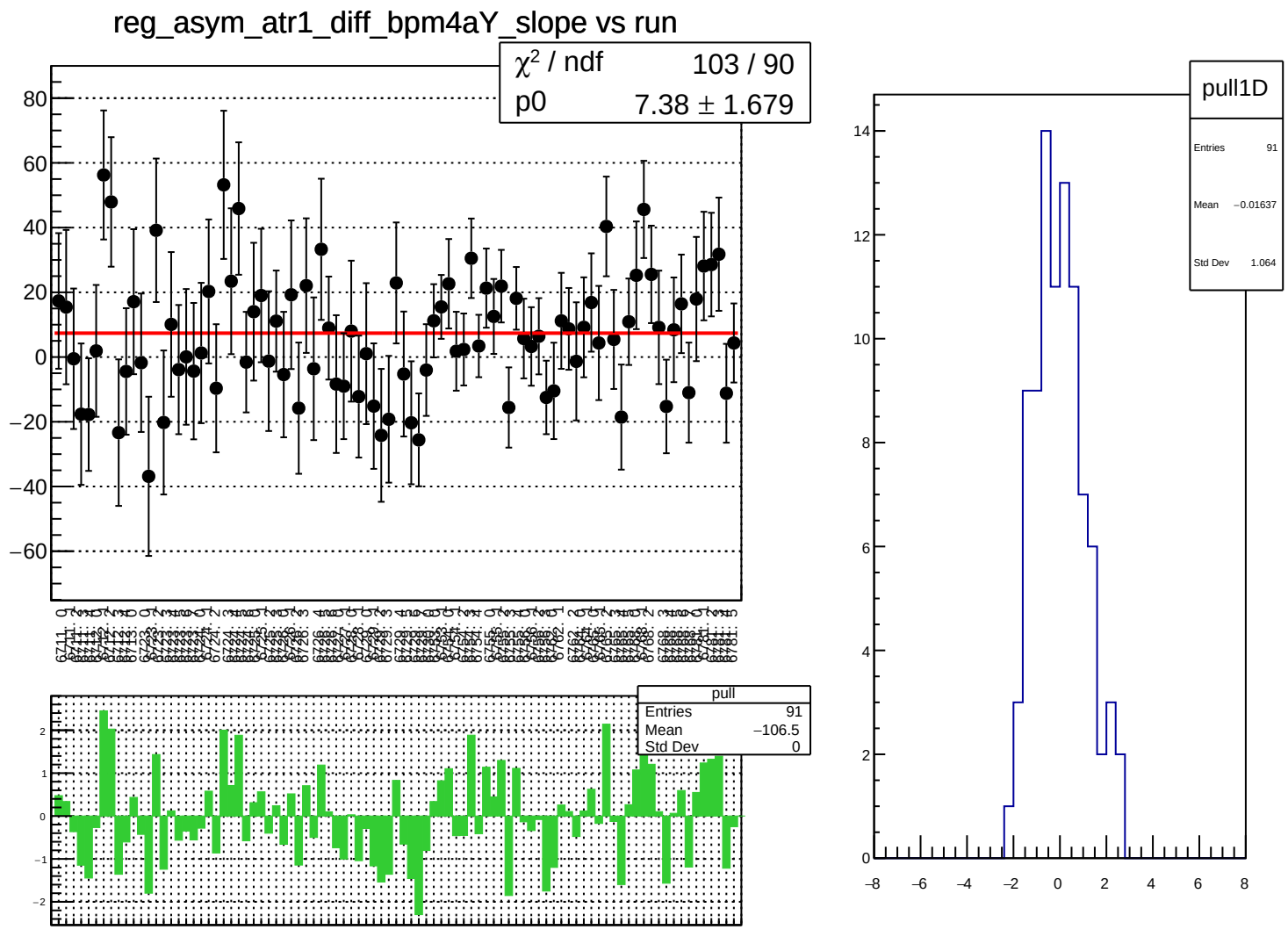

pull1D
Entries 91
Mean 0.02733
Std Dev 0.3729
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

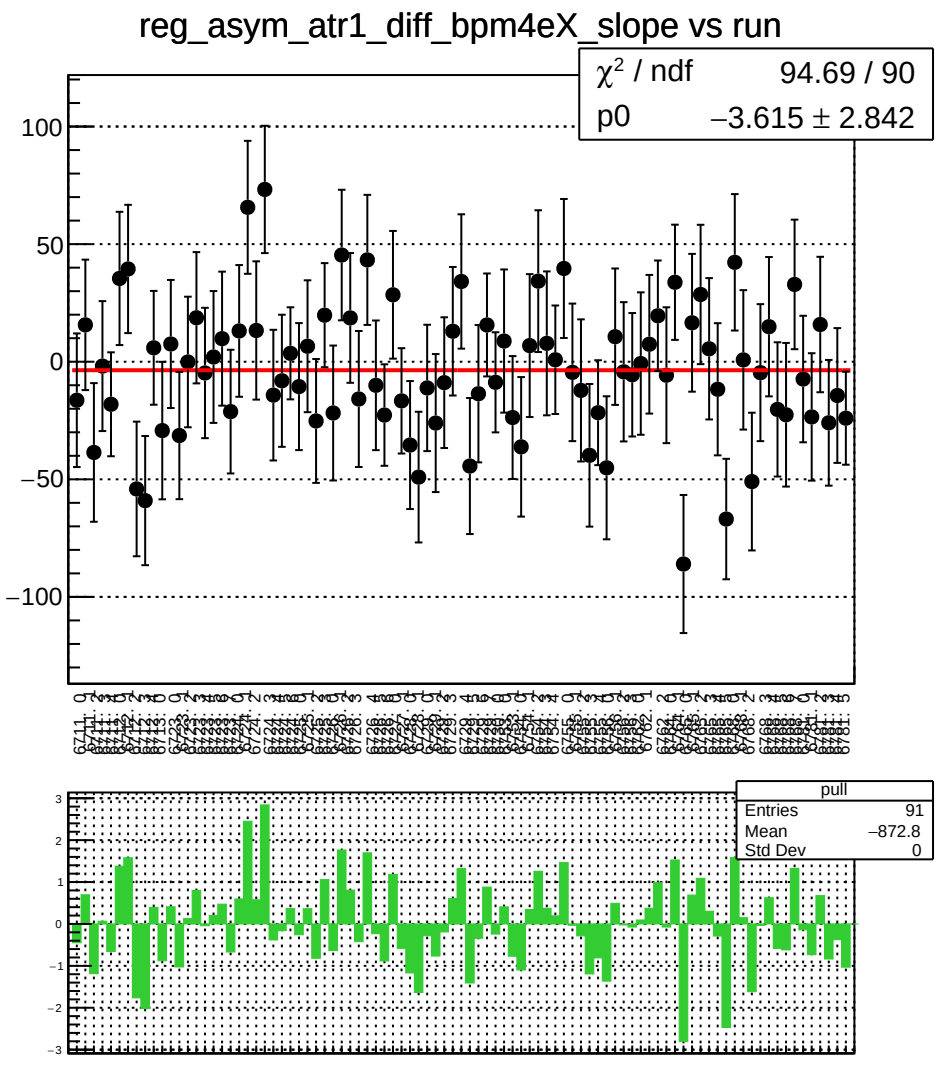

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 398 / 90
p0 −289.5 ± 0.373
pull
Entries 91
Mean −286
Std Dev 0

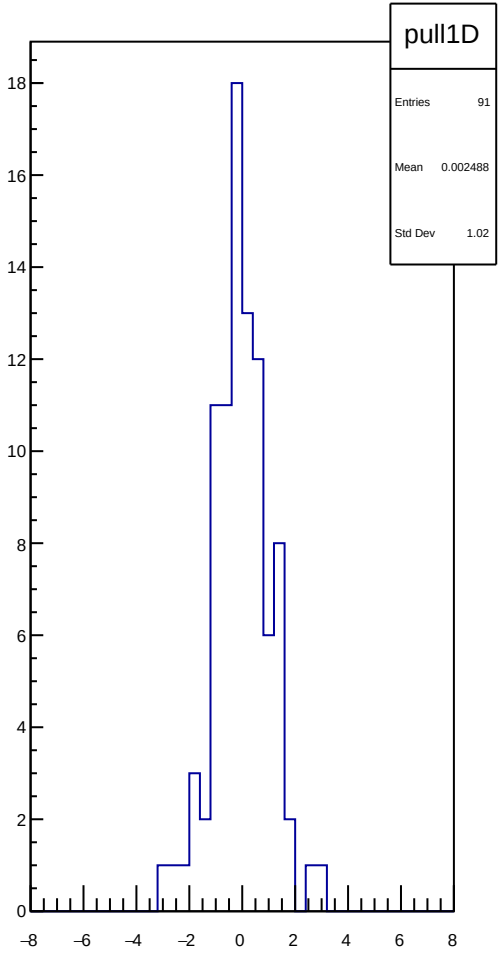

pull1D
Entries 91
Mean −0.1282
Std Dev 2.087

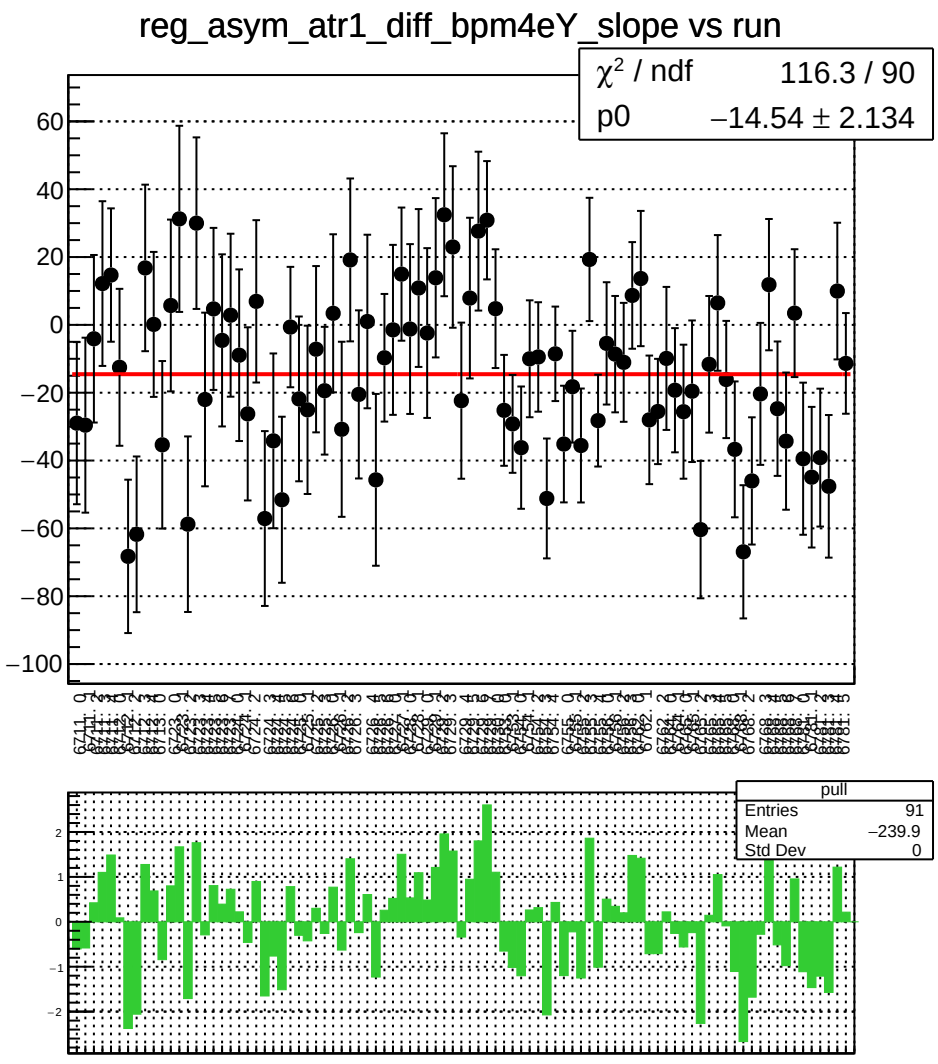

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 93.03 / 90
p0 −56.86 ± 2.965
50
0
−50
−100
−150
pull
Entries 91
Mean −381.3
Std Dev 0
3
2
1
0
−1
−2

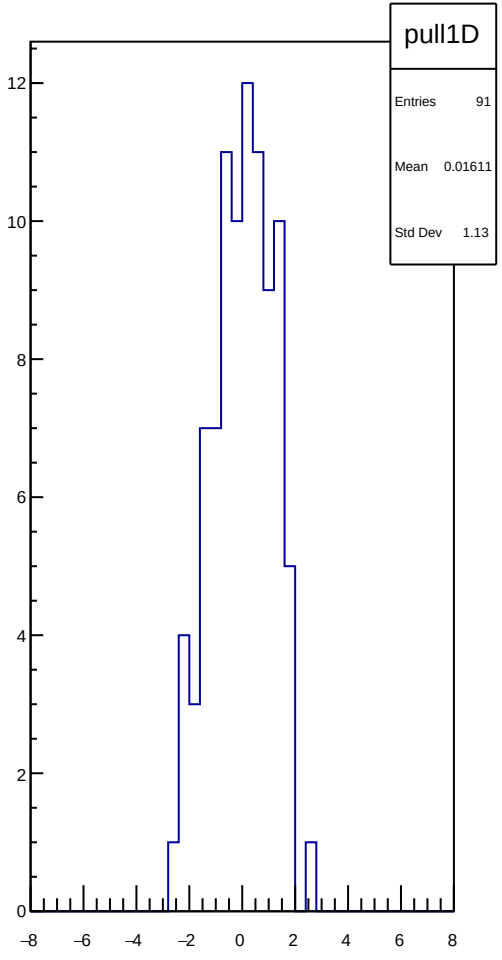

pull1D
Entries 91
Mean −0.002372
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

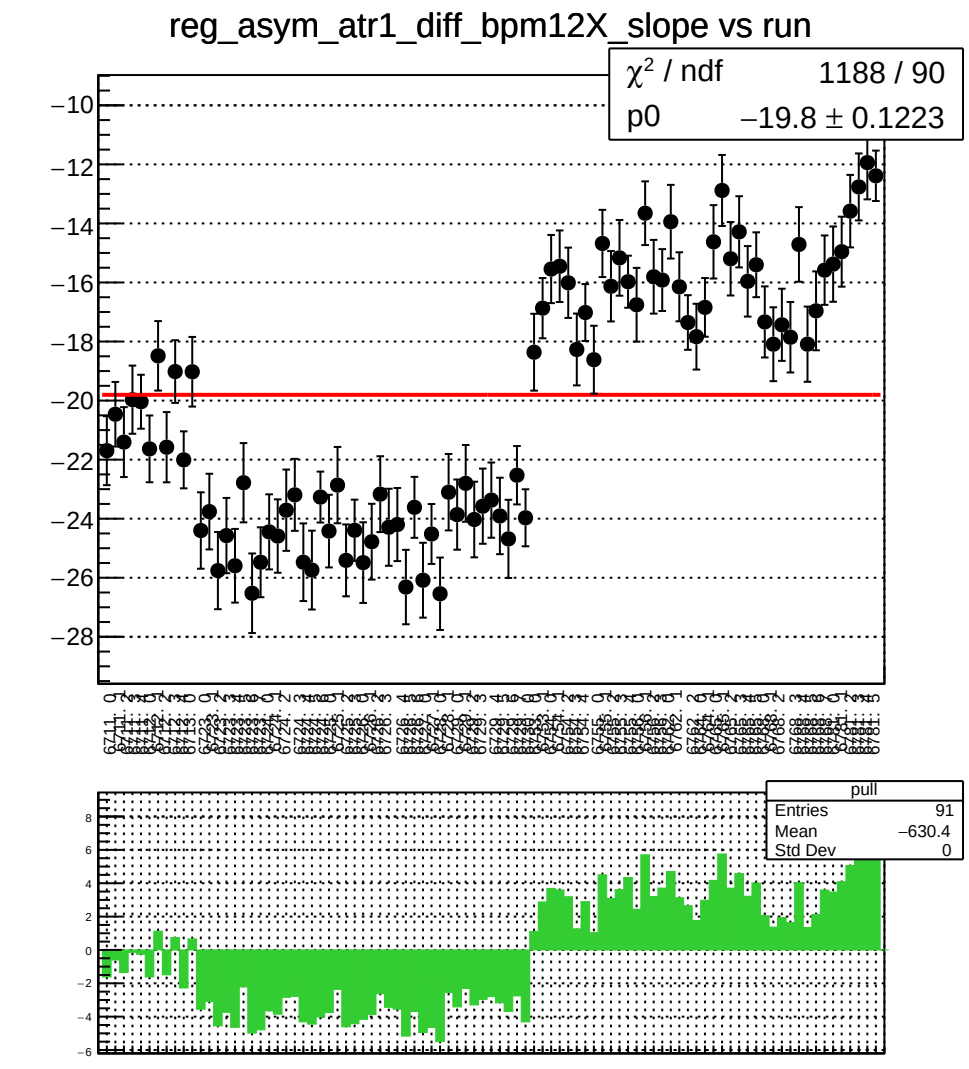

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 103 / 90
p0 7.38 ± 1.679
pull
Entries 91
Mean −106.5
Std Dev 0
pull1D
Entries 91
Mean −0.01637
Std Dev 1.064

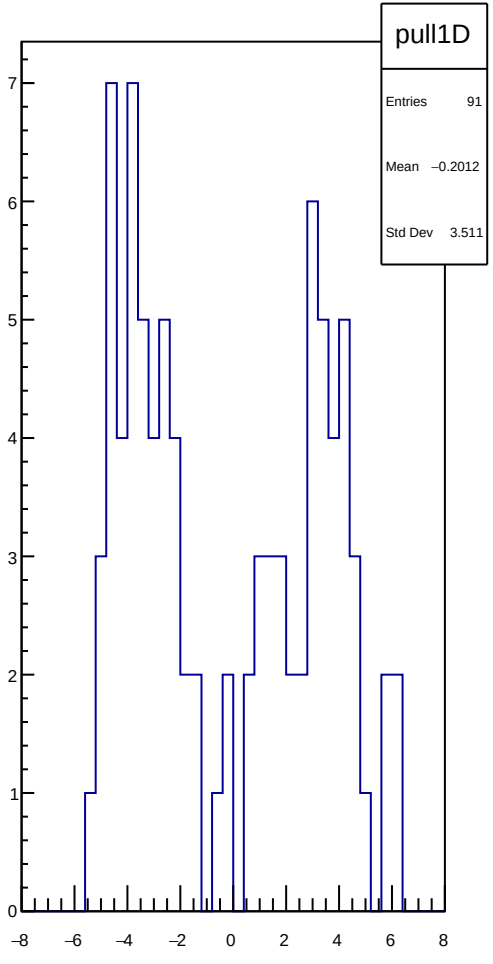

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 94.69 / 90
p0 −3.615 ± 2.842
pull
Entries 91
Mean −872.8
Std Dev 0

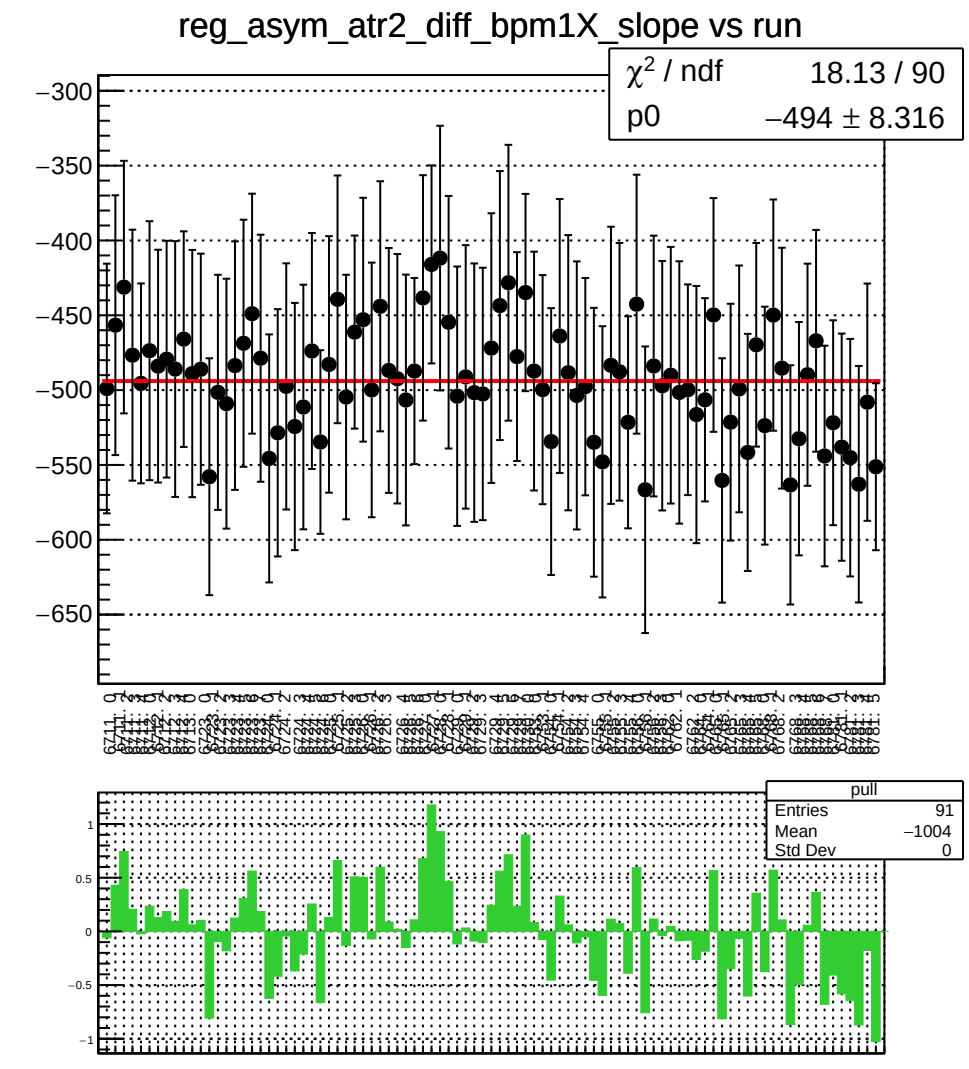

pull1D
Entries 91
Mean 0.002488
Std Dev 1.02

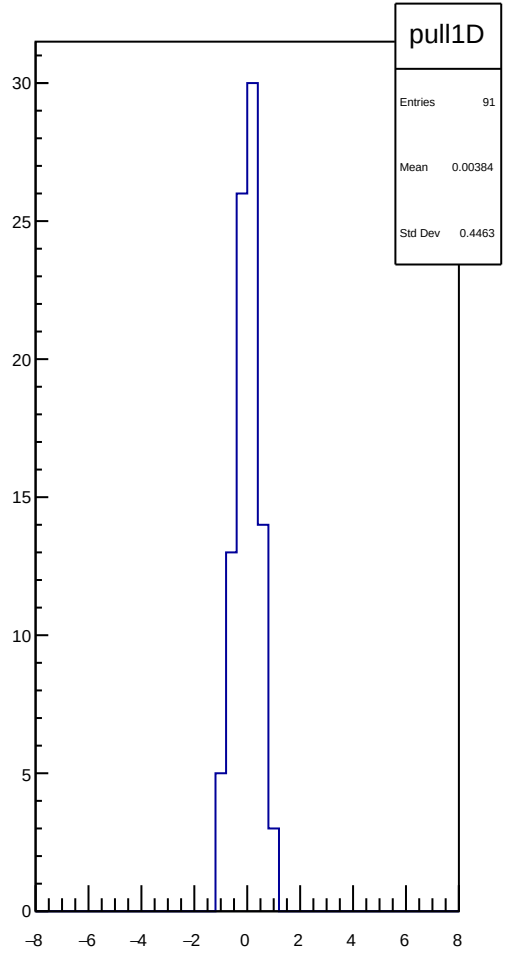

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 116.3 / 90
p0 −14.54 ± 2.134
pull
Entries 91
Mean −239.9
Std Dev 0

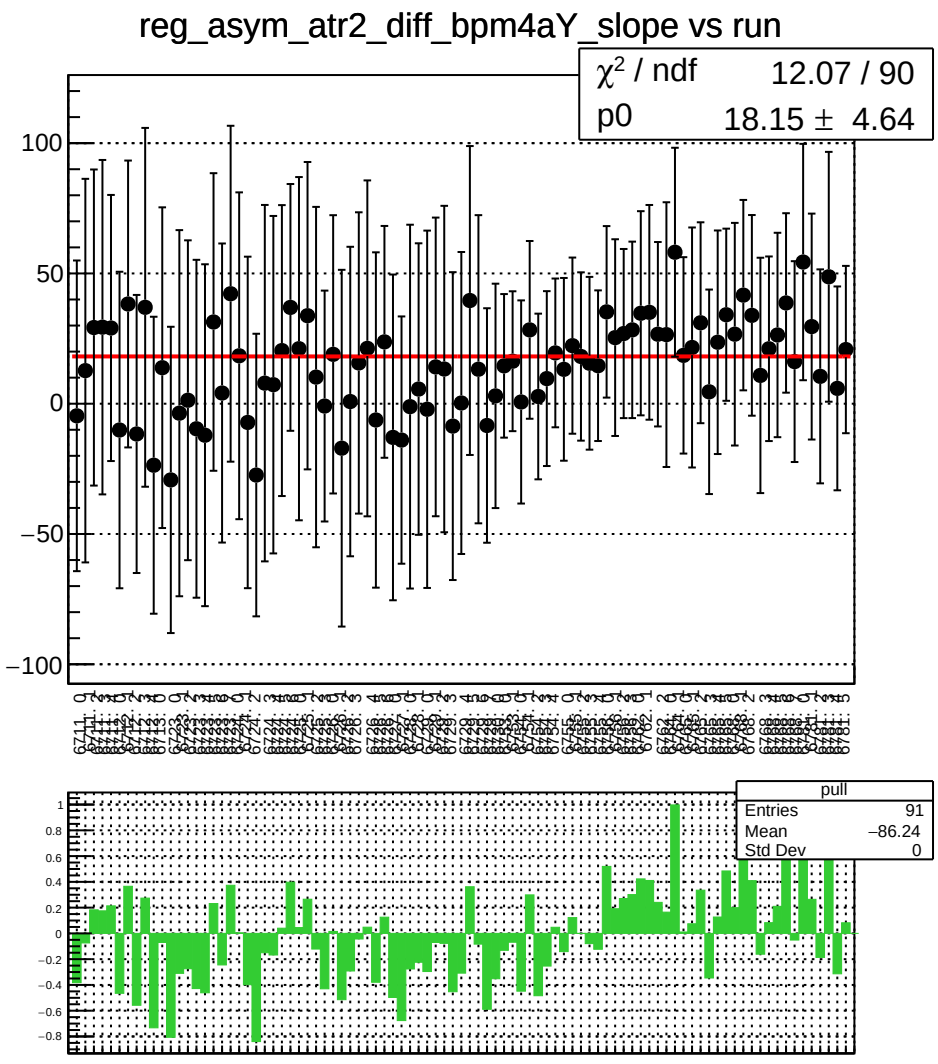

pull1D
Entries 91
Mean 0.01611
Std Dev 1.13

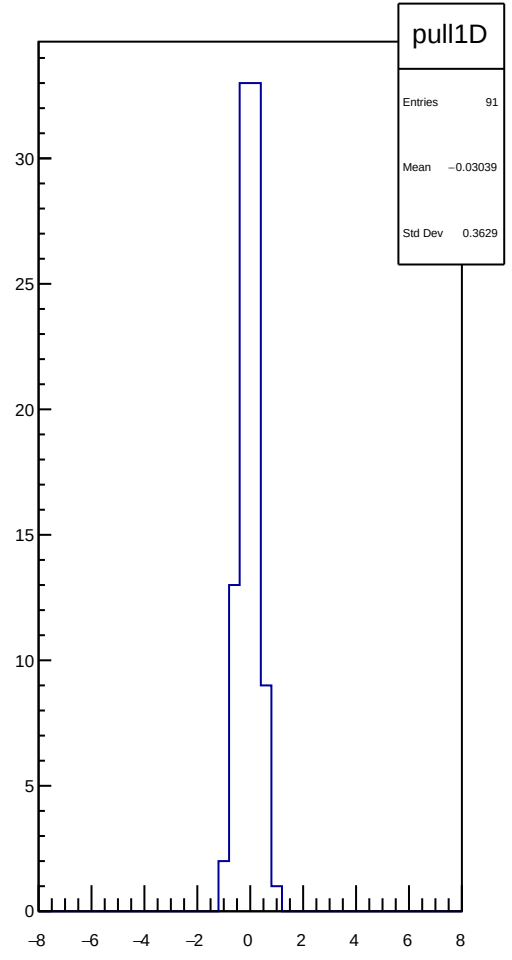

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 1188 / 90
p0 −19.8 ± 0.1223
pull
Entries 91
Mean −630.4
Std Dev 0

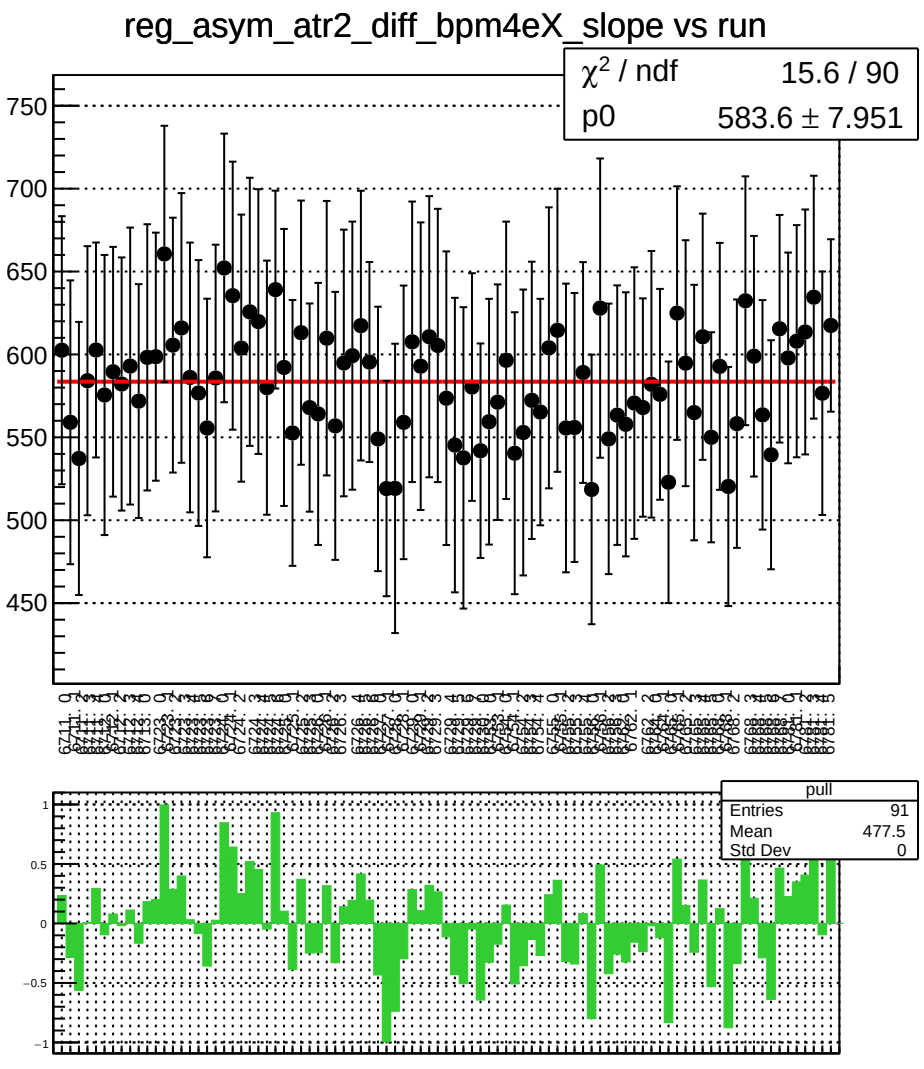

pull1D
Entries 91
Mean −0.2012
Std Dev 3.511

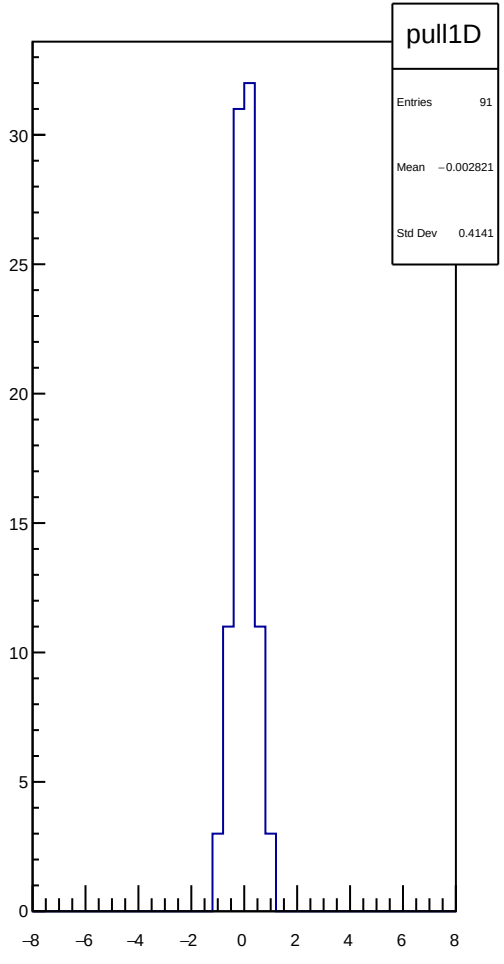

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 18.13 / 90
p0 −494 ± 8.316
pull
Entries 91
Mean −1004
Std Dev 0

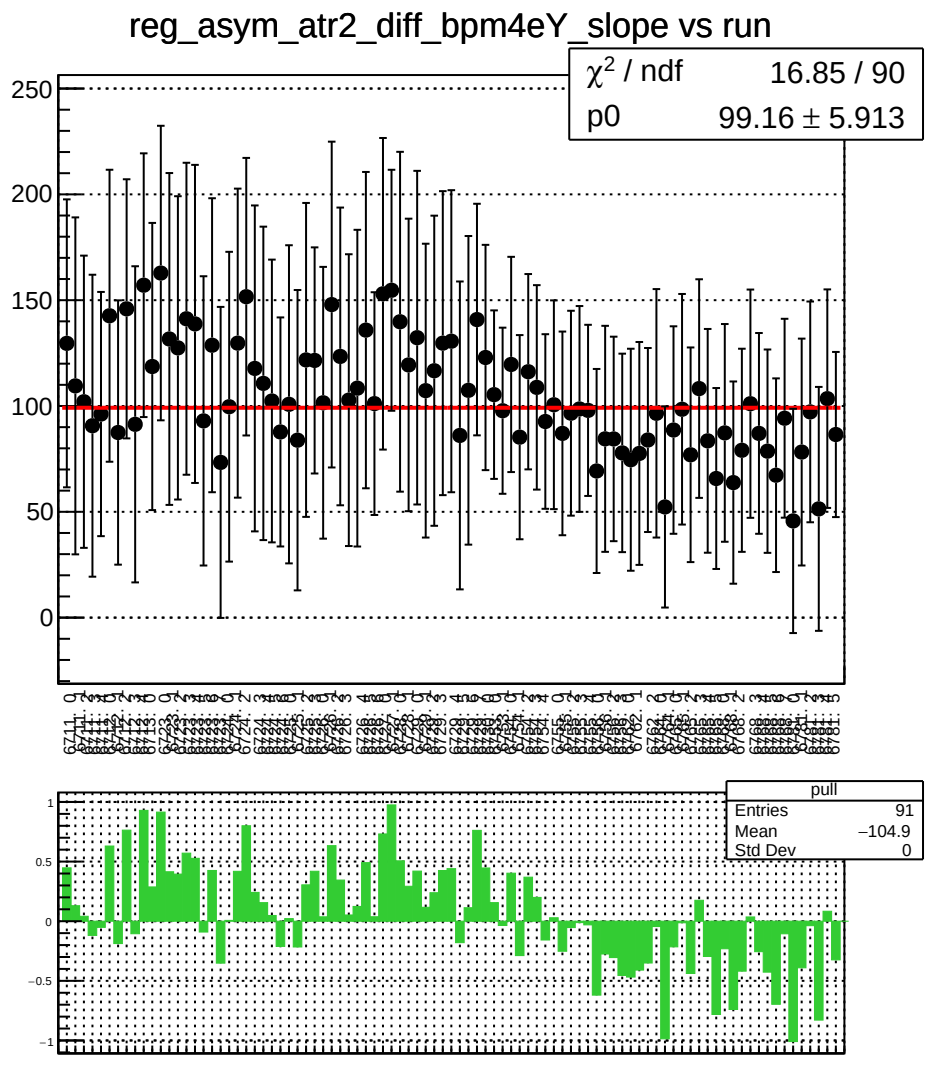

pull1D
Entries 91
Mean 0.00384
Std Dev 0.4463

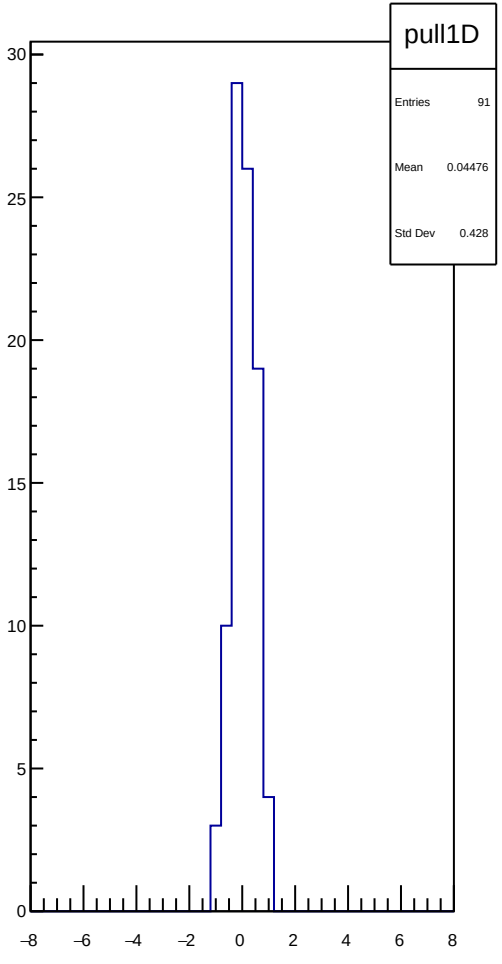

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 12.07 / 90
p0 18.15 ± 4.64
100
50
0
−50
−100
pull
Entries 91
Mean −86.24
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

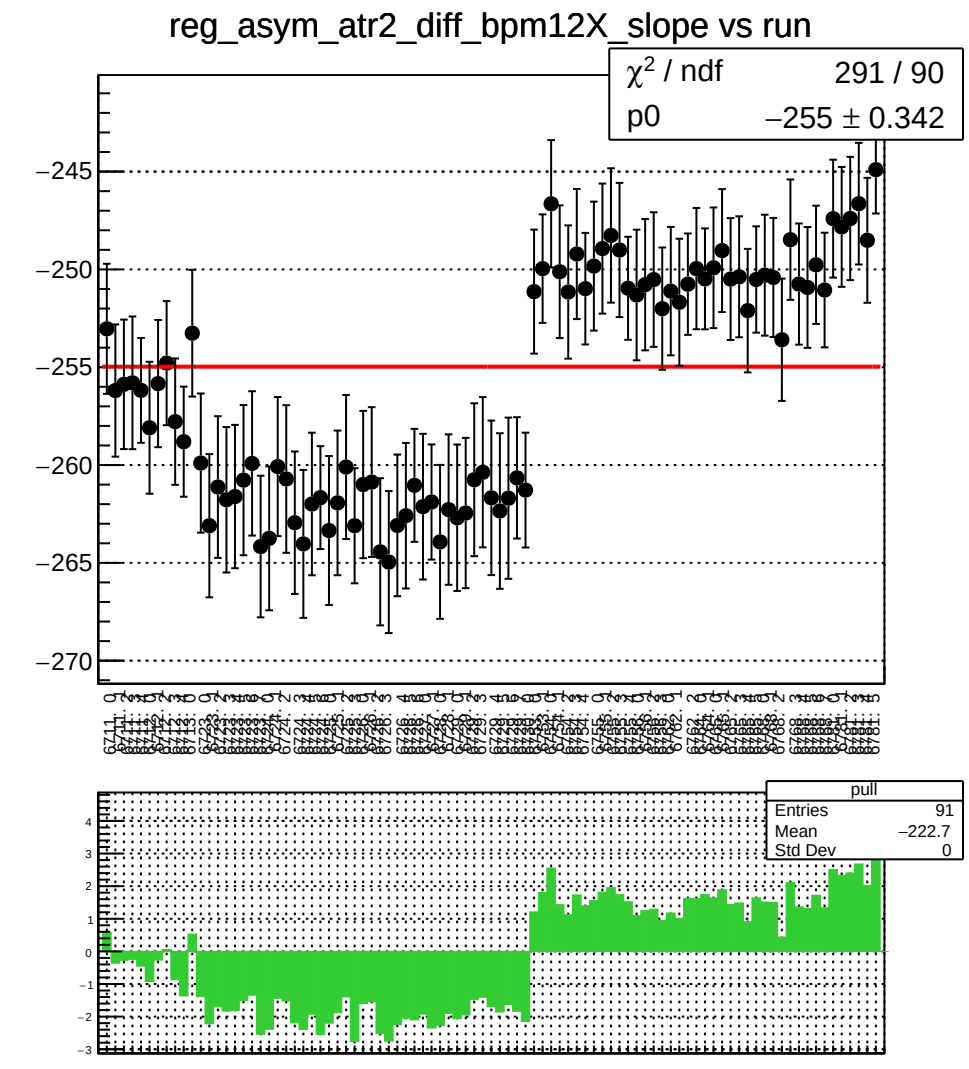

pull1D
Entries 91
Mean −0.03039
Std Dev 0.3629
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

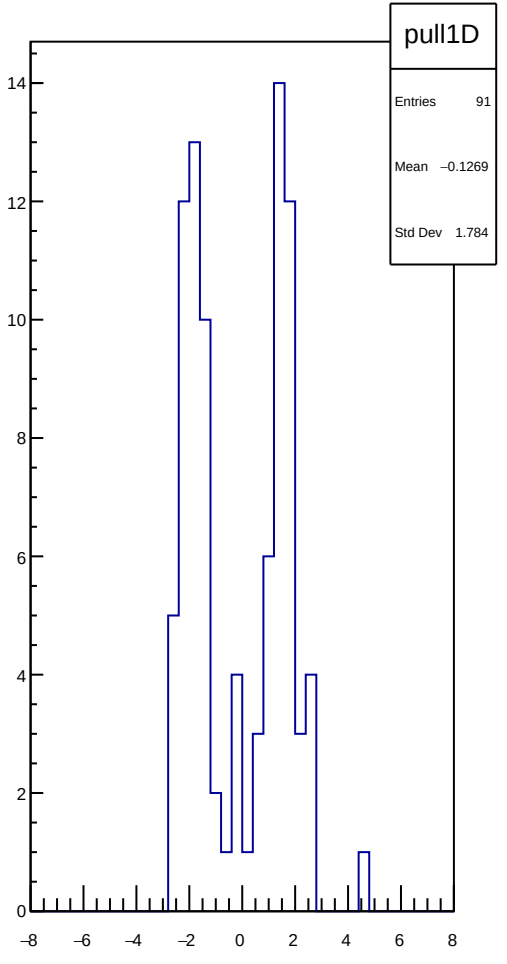

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 15.6 / 90
p0 583.6 ± 7.951
750
700
650
600
550
500
450
pull
Entries 91
Mean 477.5
Std Dev 0
1
0.5
0
−0.5
−1

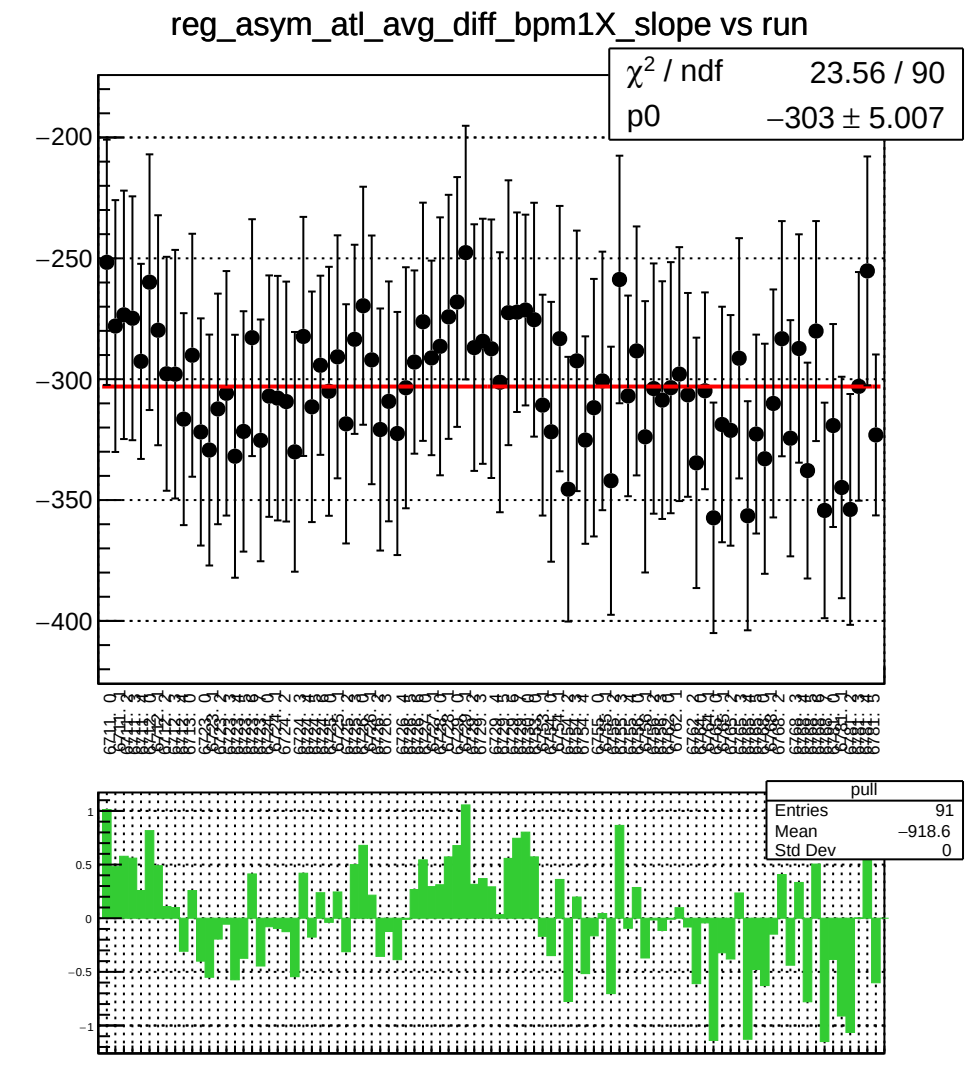

pull1D
Entries 91
Mean −0.002821
Std Dev 0.4141
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

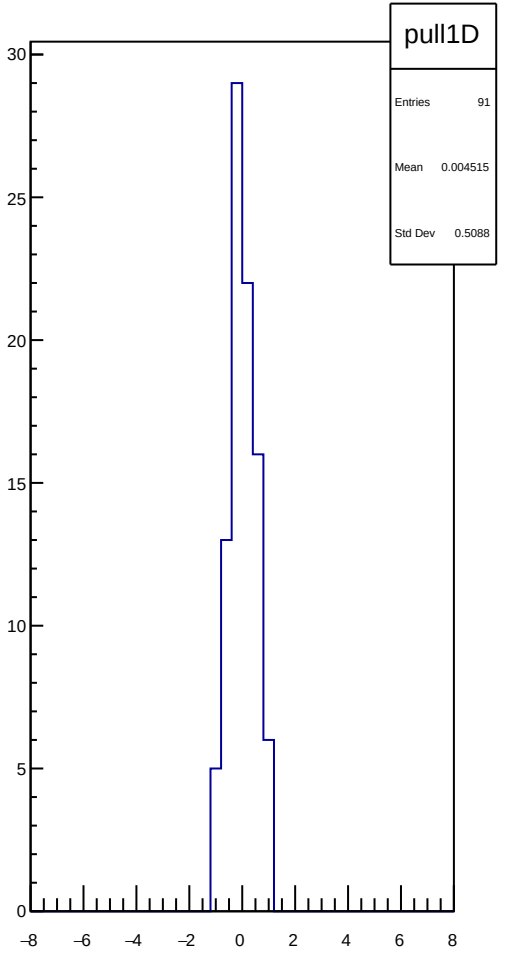

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 16.85 / 90
p0 99.16 ± 5.913
pull
Entries 91
Mean −104.9
Std Dev 0

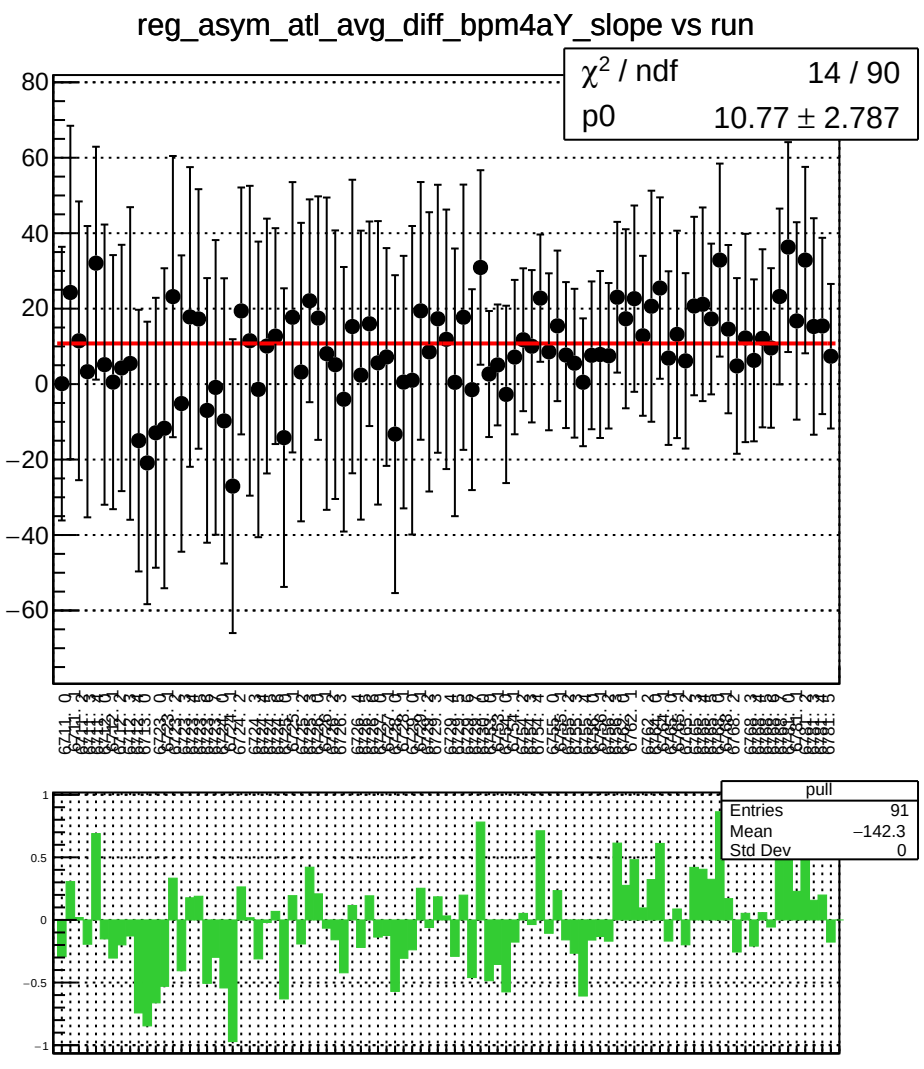

pull1D
Entries 91
Mean 0.04476
Std Dev 0.428

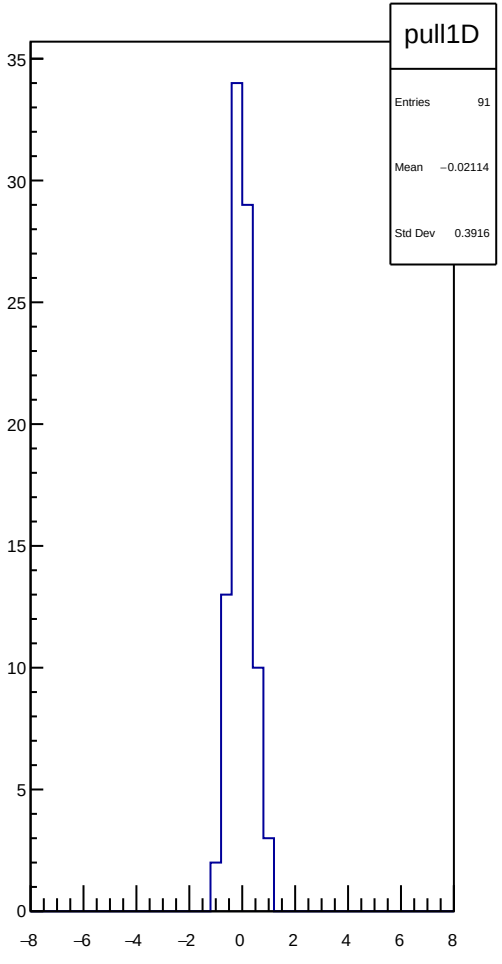

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 291 / 90
p0 −255 ± 0.342
−245
−250
−255
−260
−265
−270
pull
Entries 91
Mean −222.7
Std Dev 0
4
3
2
1
0
−1
−2
−3

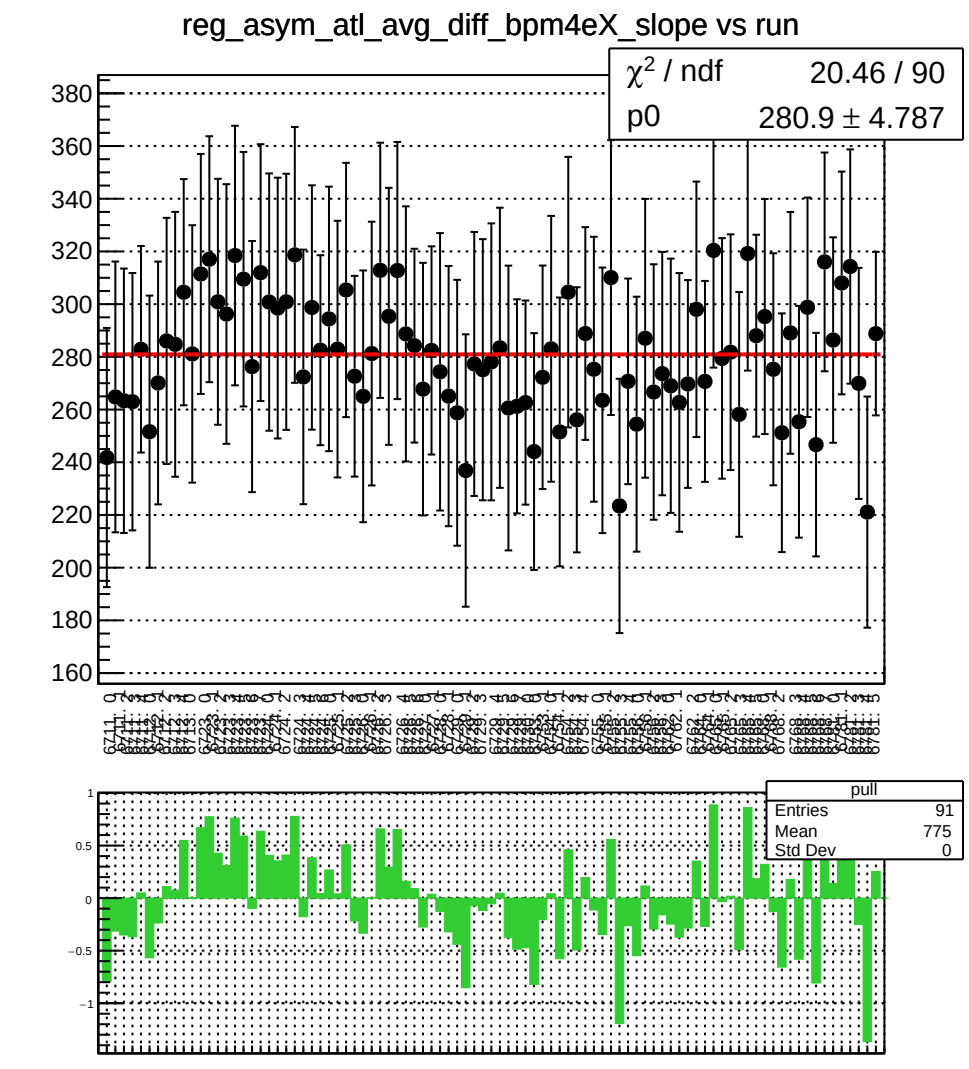

pull1D
Entries 91
Mean −0.1269
Std Dev 1.784
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

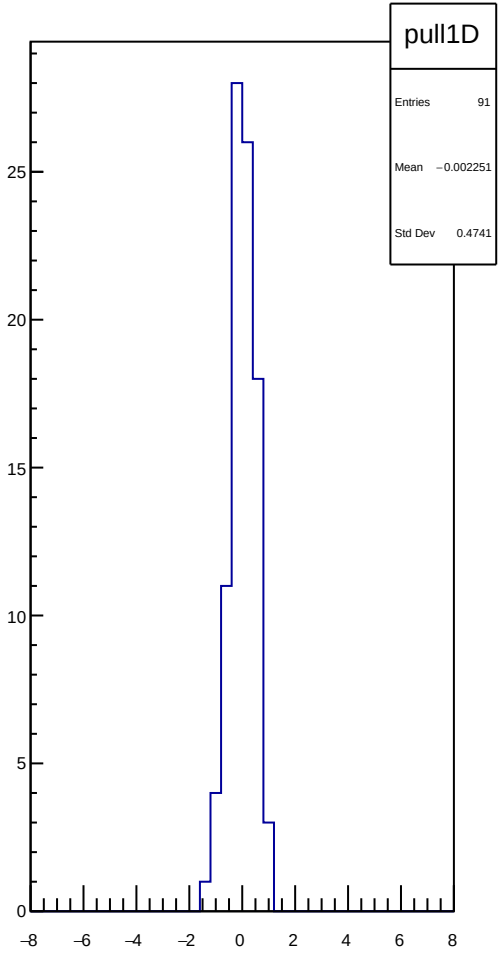

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 23.56 / 90
p0 −303 ± 5.007
−200
−250
−300
−350
−400
pull
Entries 91
Mean −918.6
Std Dev 0
1
0.5
0
−0.5
−1

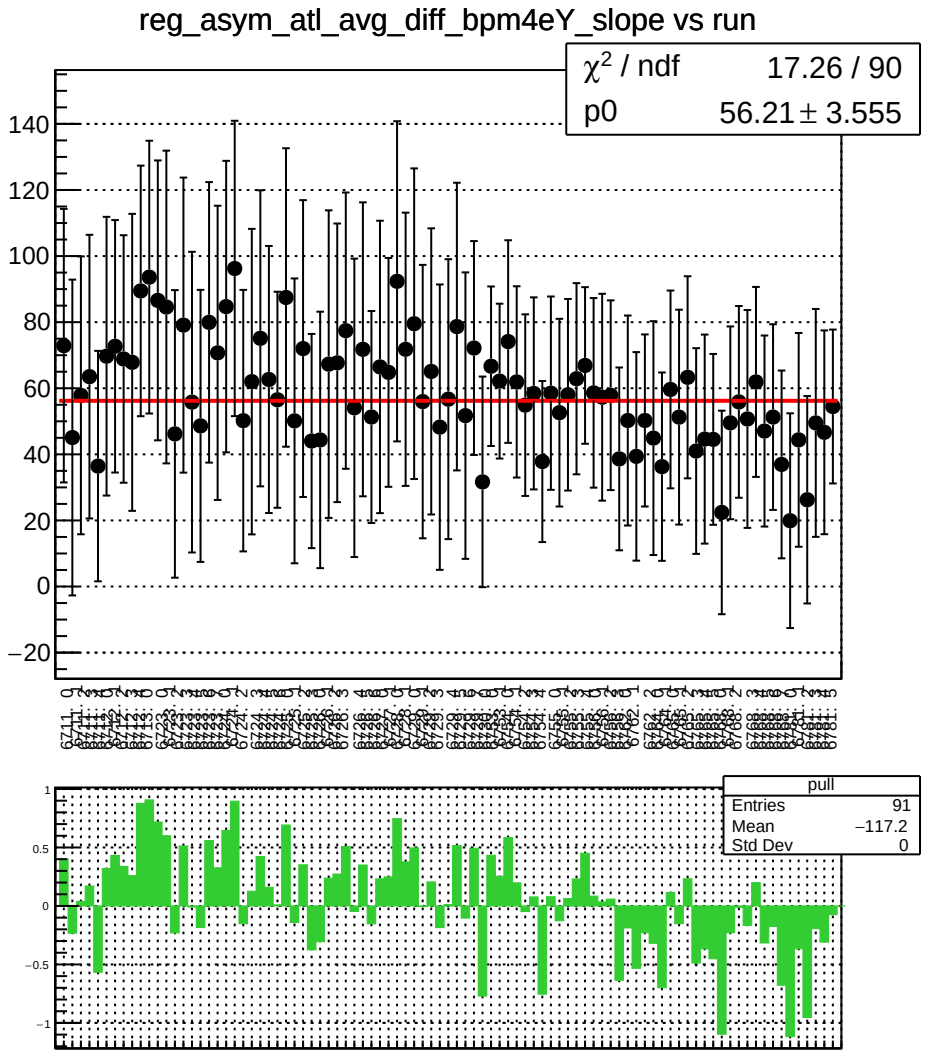

pull1D
Entries 91
Mean 0.004515
Std Dev 0.5088
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

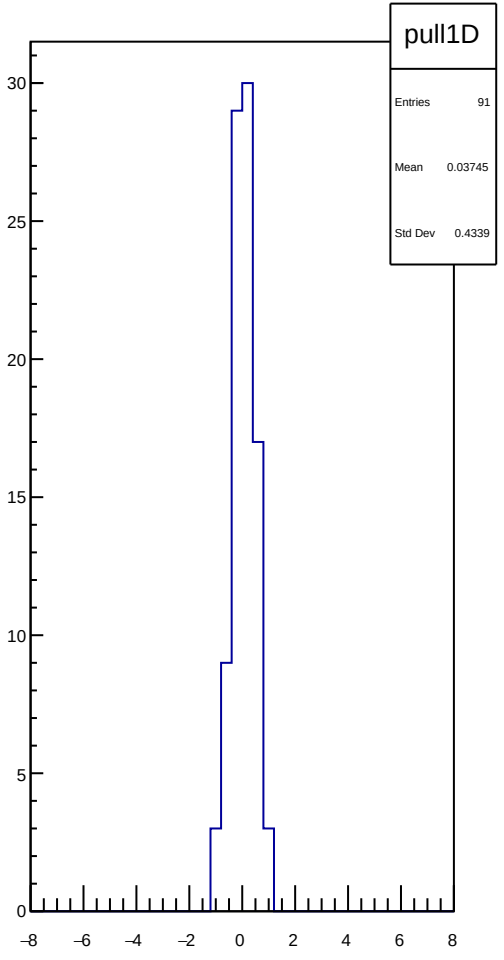

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 14 / 90
p0 10.77 ± 2.787
pull
Entries 91
Mean −142.3
Std Dev 0

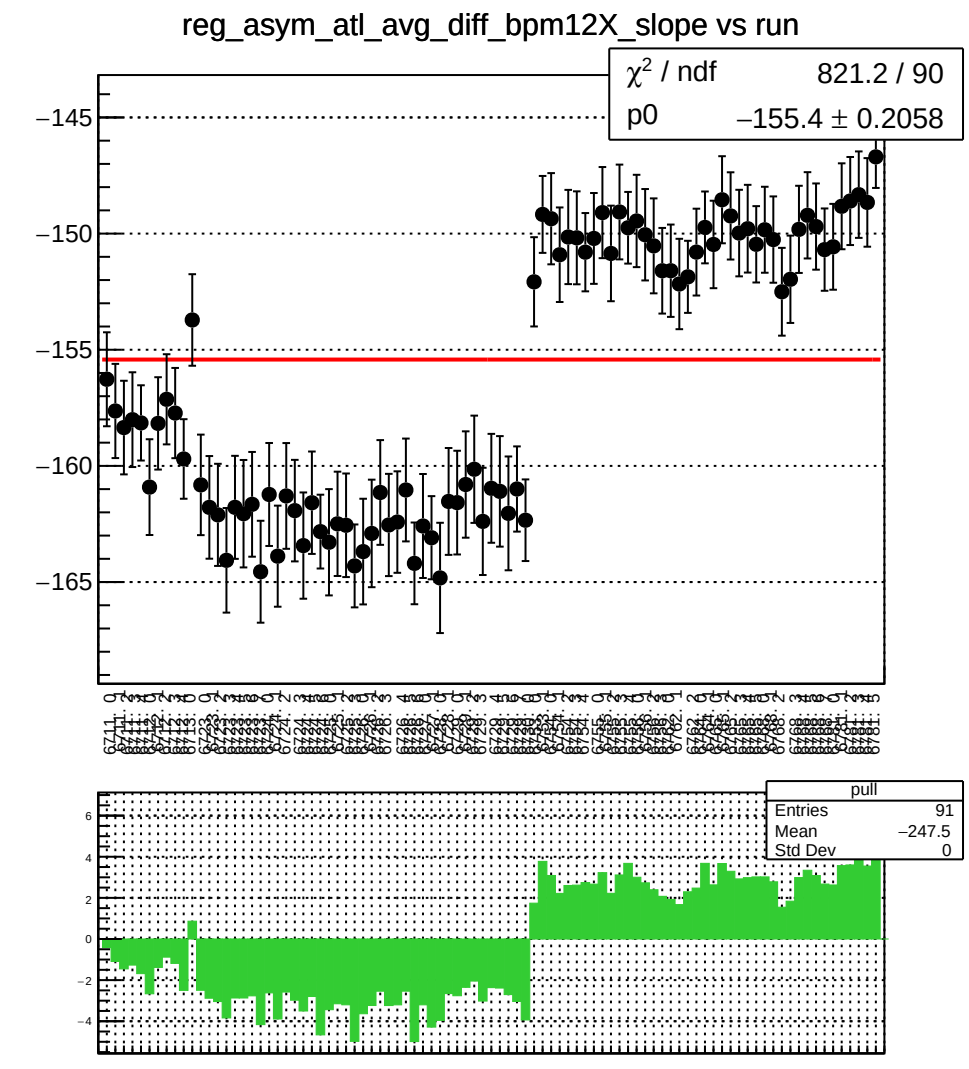

pull1D
Entries 91
Mean −0.02114
Std Dev 0.3916

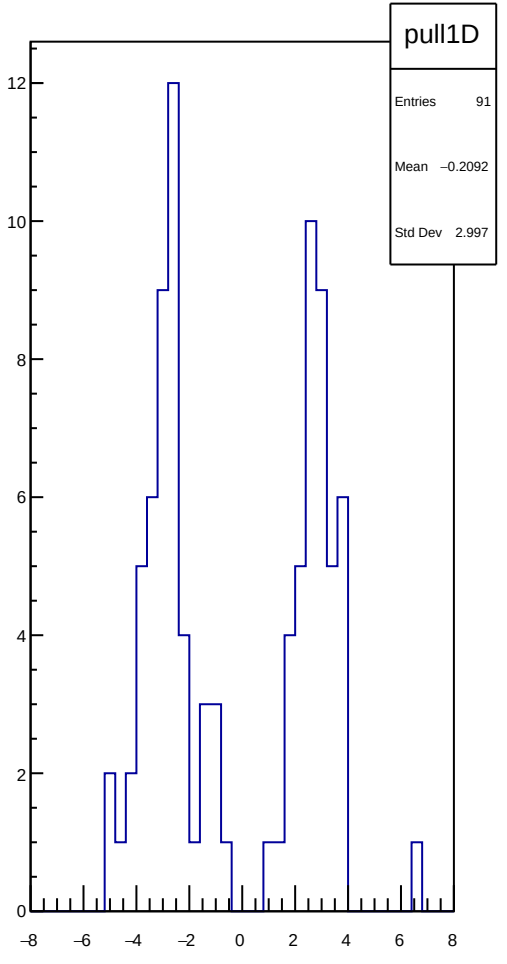

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.46 / 90
p0 280.9 ± 4.787
pull
Entries 91
Mean 775
Std Dev 0

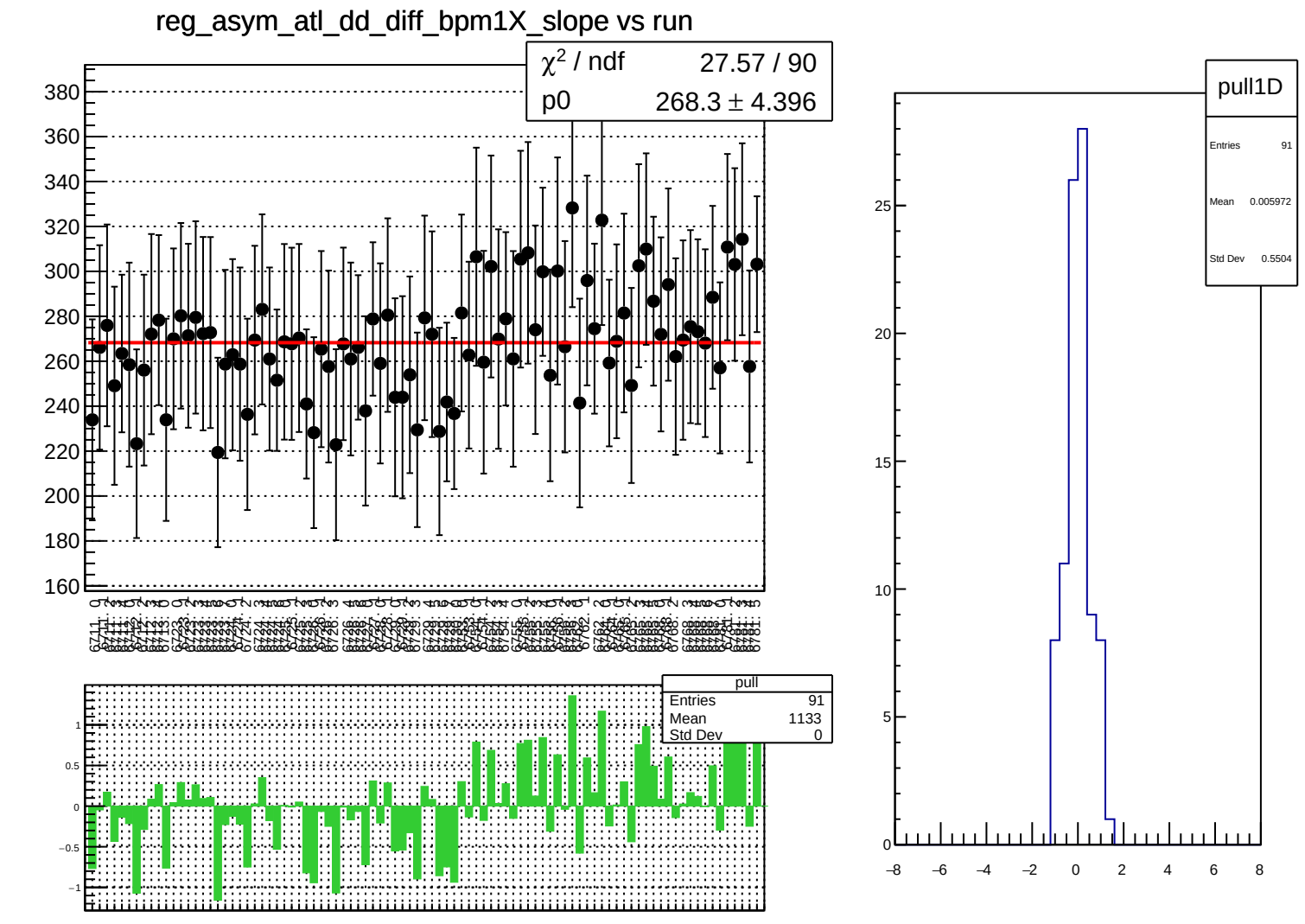

pull1D
Entries 91
Mean −0.002251
Std Dev 0.4741

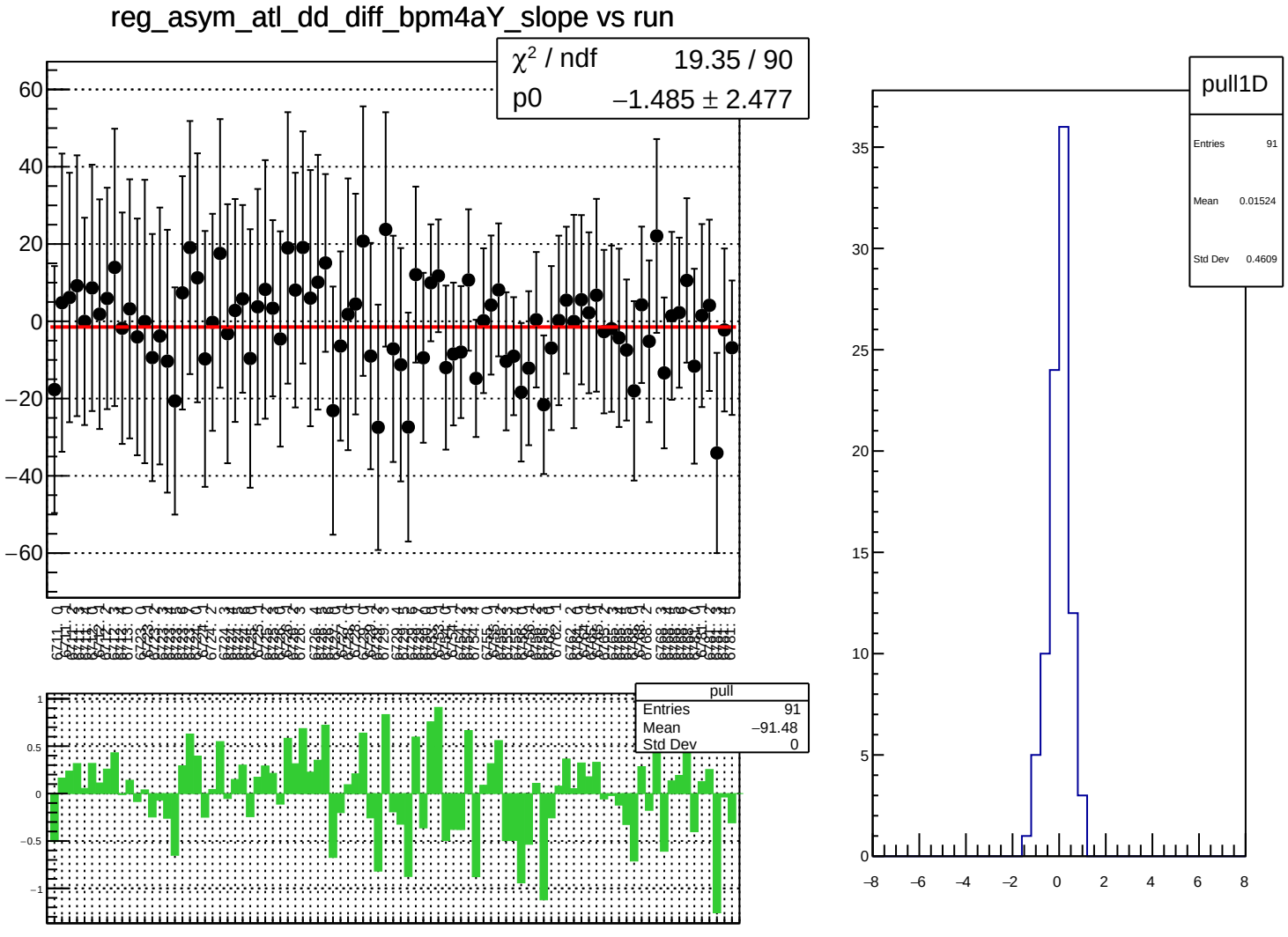

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.26 / 90
p0 56.21 ± 3.555
pull
Entries 91
Mean −117.2
Std Dev 0

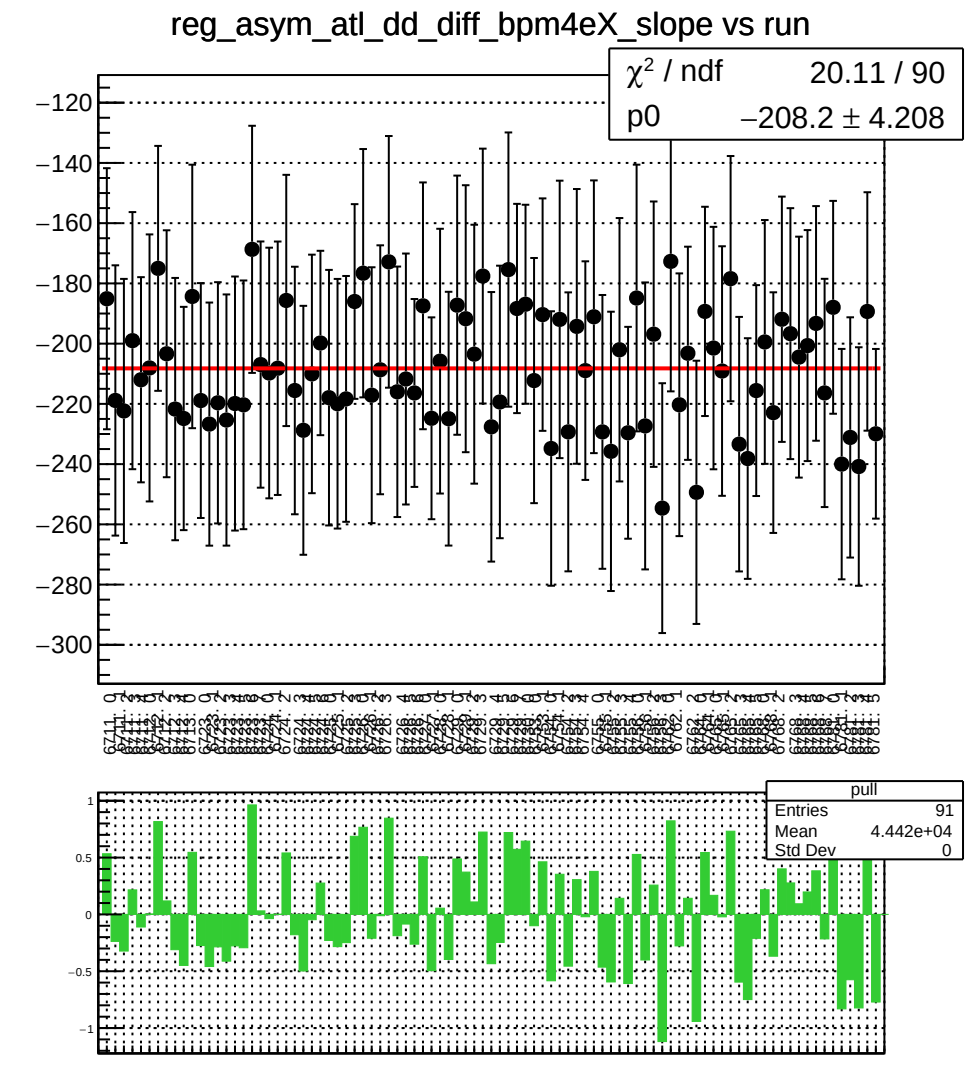

pull1D
Entries 91
Mean 0.03745
Std Dev 0.4339

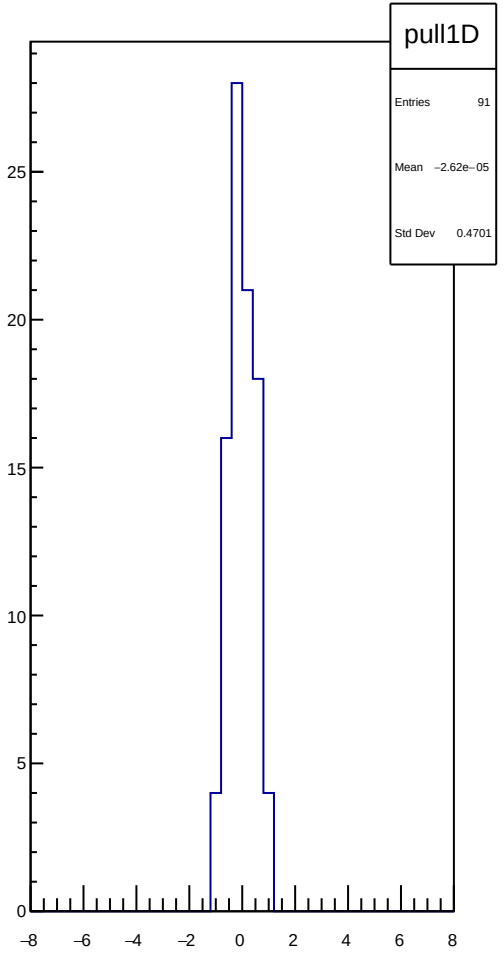

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 821.2 / 90
p0 −155.4 ± 0.2058
−145
−150
−155
−160
−165
pull
Entries 91
Mean −247.5
Std Dev 0
6
4
2
0
−2
−4

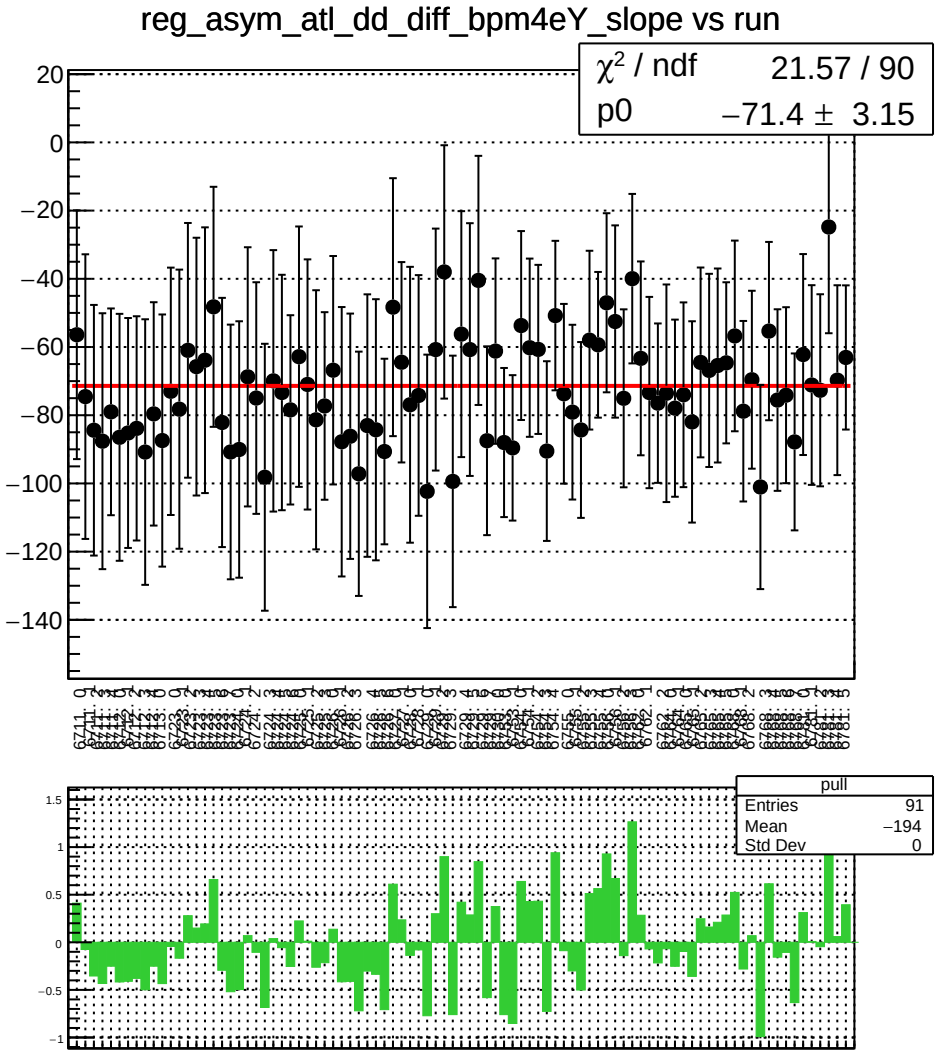

pull1D
Entries 91
Mean −0.2092
Std Dev 2.997
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

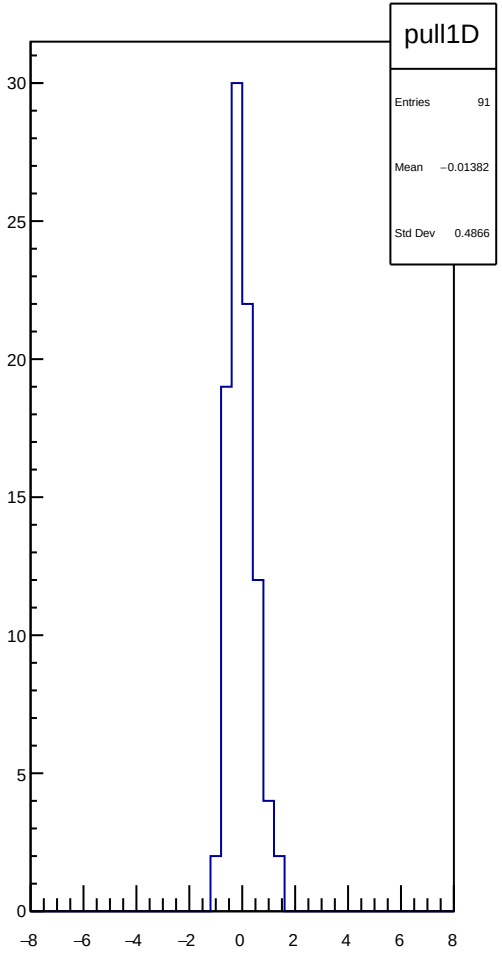

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 27.57 / 90
p0 268.3 ± 4.396
pull
Entries 91
Mean 1133
Std Dev 0
pull1D
Entries 91
Mean 0.005972
Std Dev 0.5504

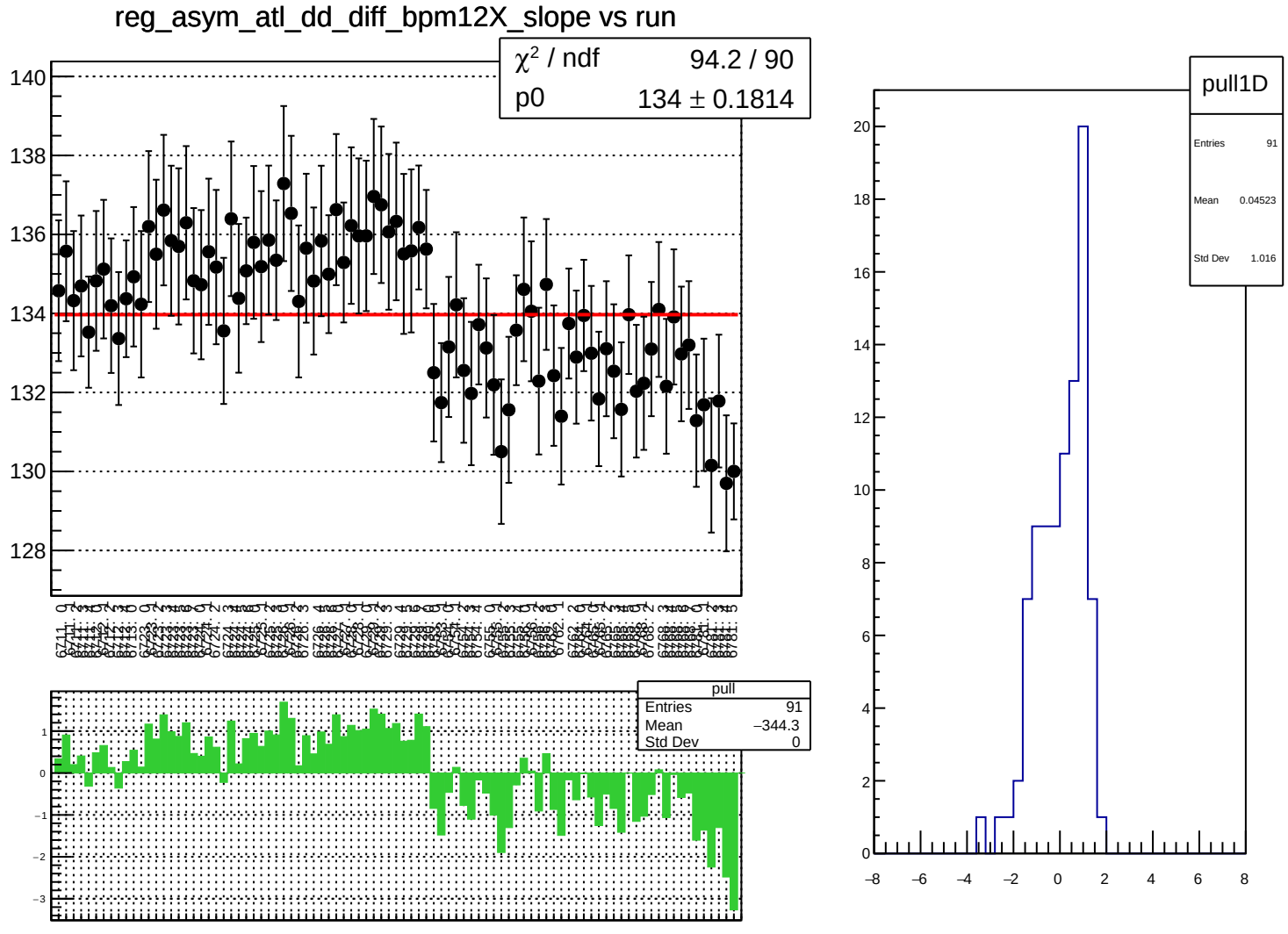

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.35 / 90
p0 −1.485 ± 2.477
pull
Entries 91
Mean −91.48
Std Dev 0
pull1D
Entries 91
Mean 0.01524
Std Dev 0.4609

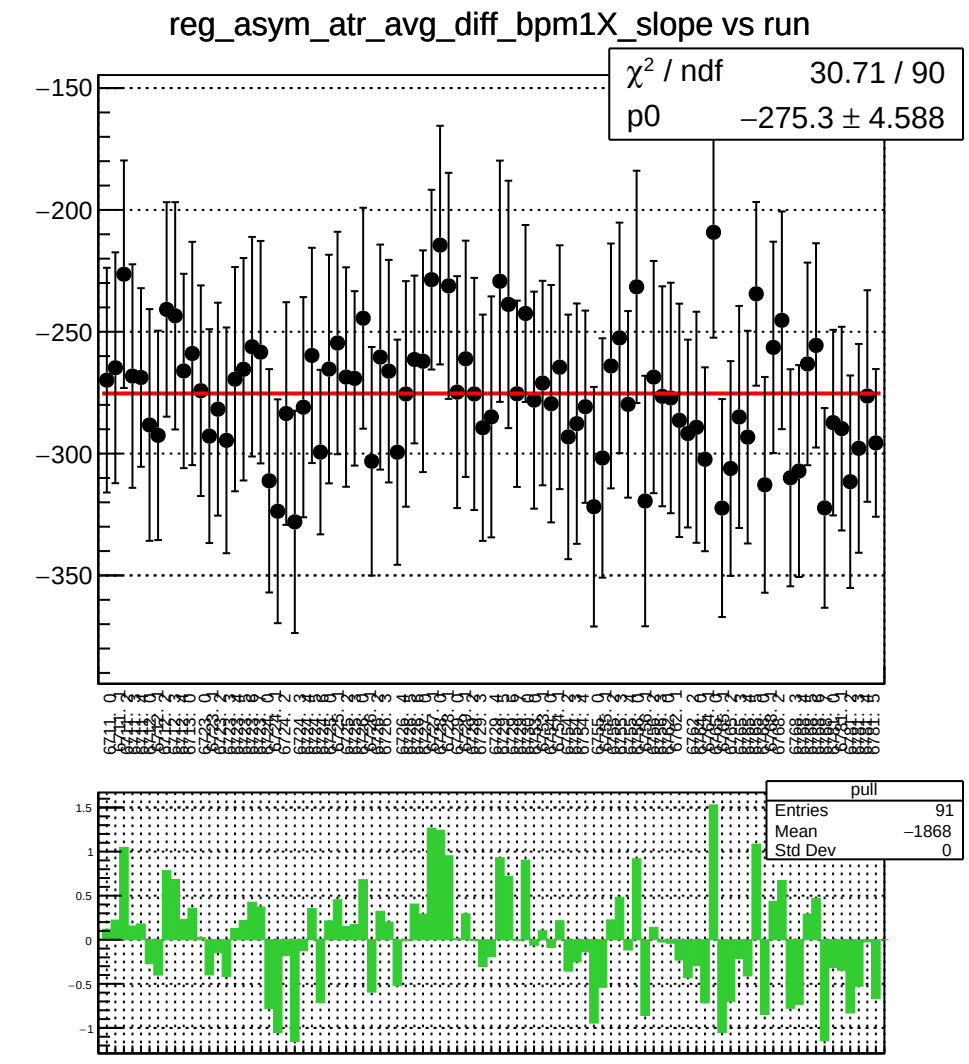

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.11 / 90
p0 −208.2 ± 4.208
pull
Entries 91
Mean 4.442e+04
Std Dev 0

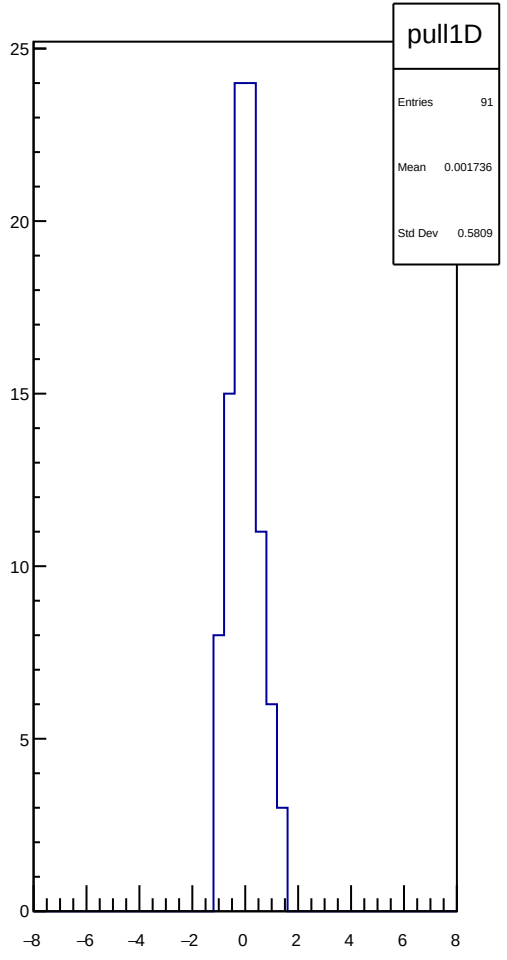

pull1D
Entries 91
Mean −2.62e−05
Std Dev 0.4701

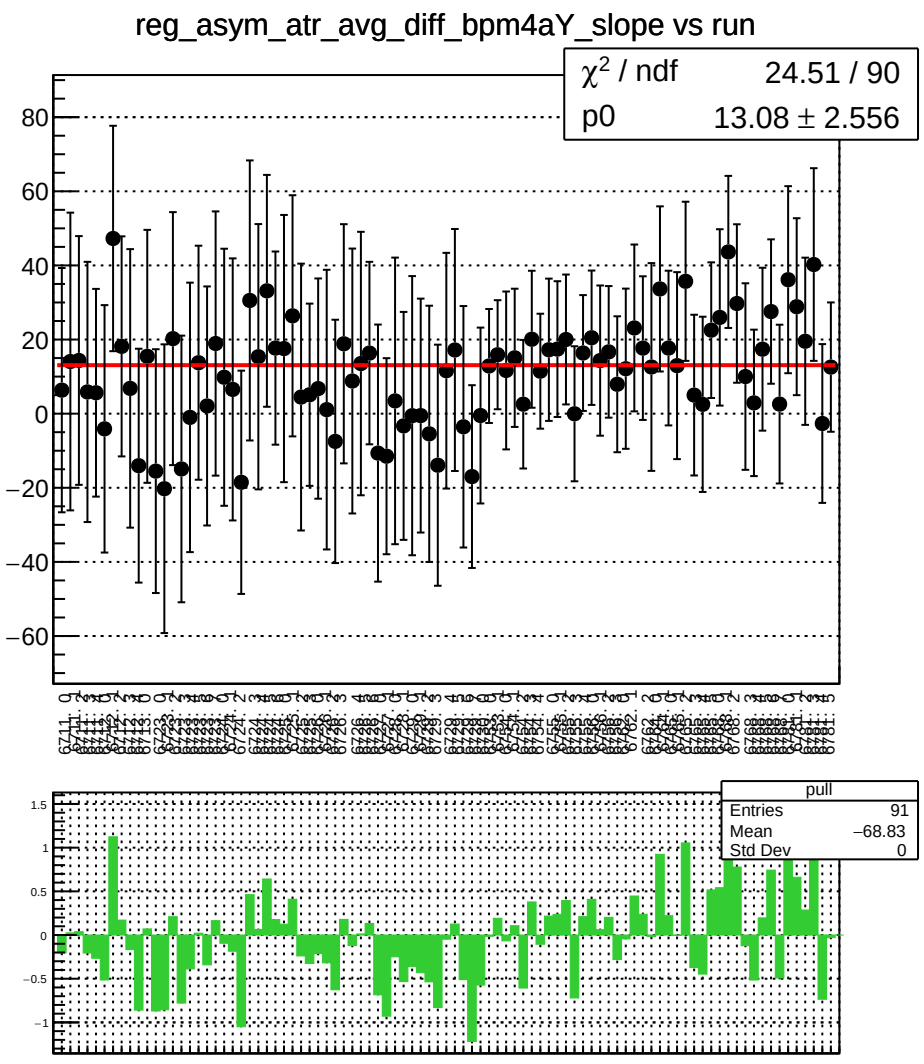

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.57 / 90
p0 −71.4 ± 3.15
pull
Entries 91
Mean −194
Std Dev 0

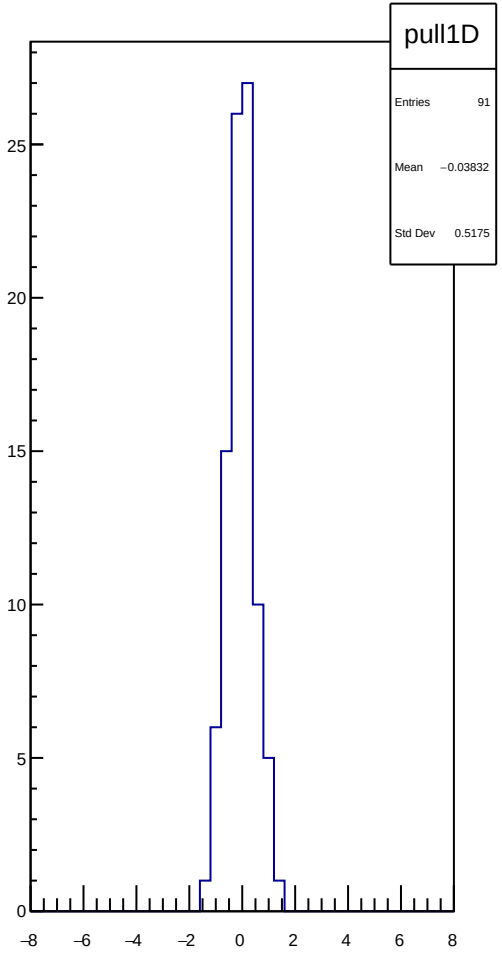

pull1D
Entries 91
Mean −0.01382
Std Dev 0.4866

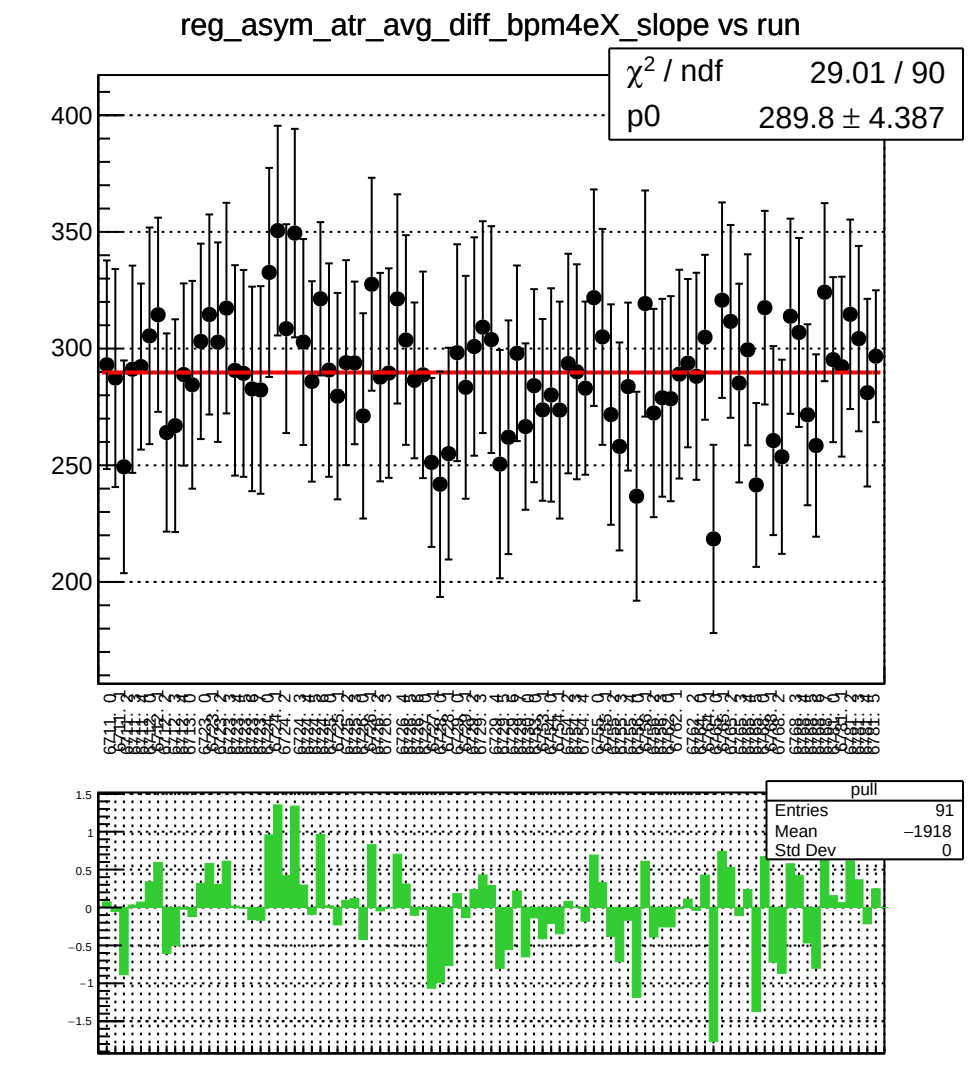

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 94.2 / 90
p0 134 ± 0.1814
140
138
136
134
132
130
128
pull
Entries 91
Mean −344.3
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 91
Mean 0.04523
Std Dev 1.016
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

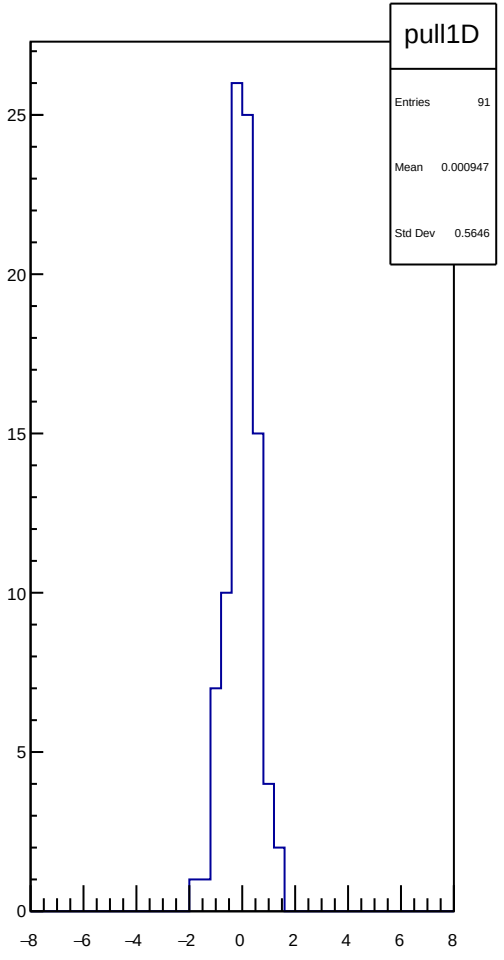

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 30.71 / 90
p0 −275.3 ± 4.588
−150
−200
−250
−300
−350
pull
Entries 91
Mean −1868
Std Dev 0
1.5
1
0.5
0
−0.5
−1

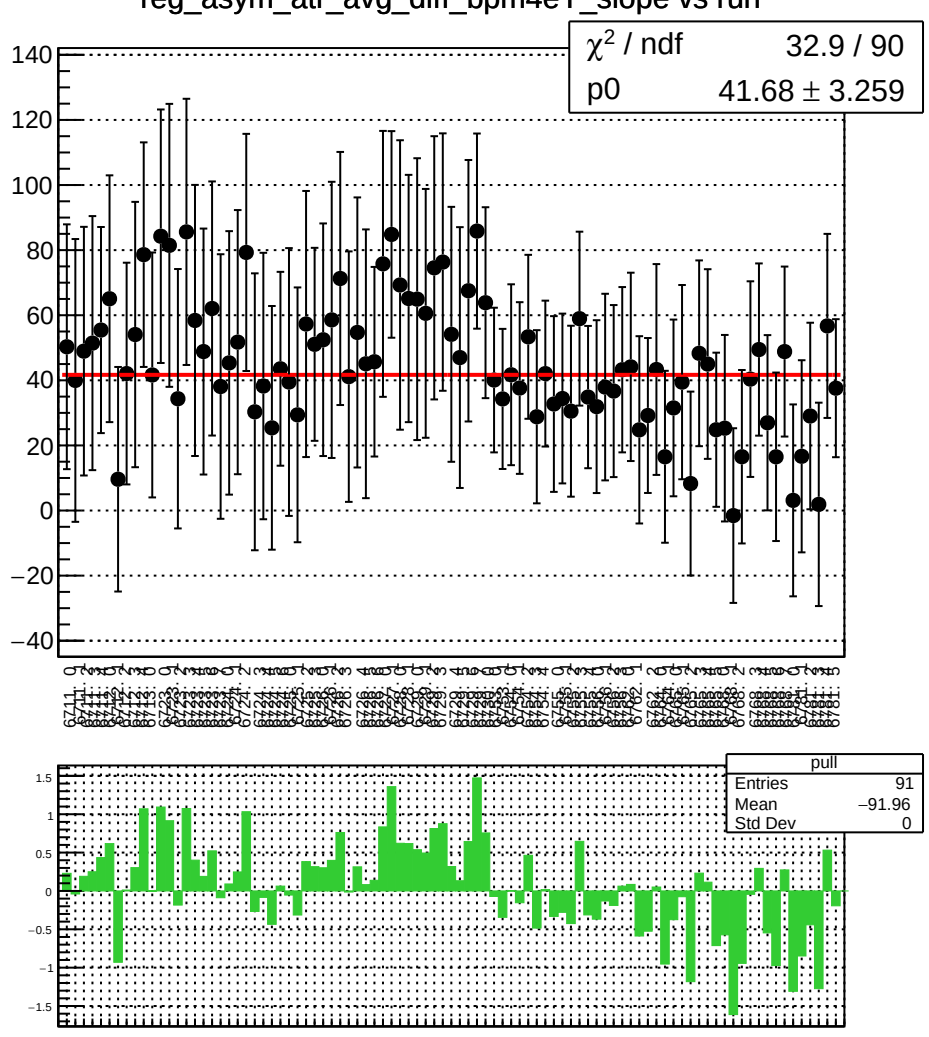

pull1D
Entries 91
Mean 0.001736
Std Dev 0.5809
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

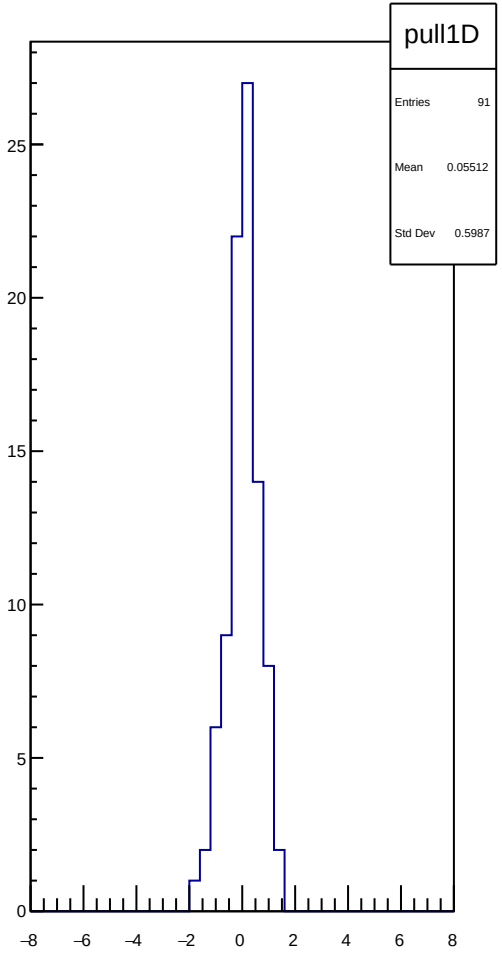

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.51 / 90
p0 13.08 ± 2.556
pull
Entries 91
Mean −68.83
Std Dev 0

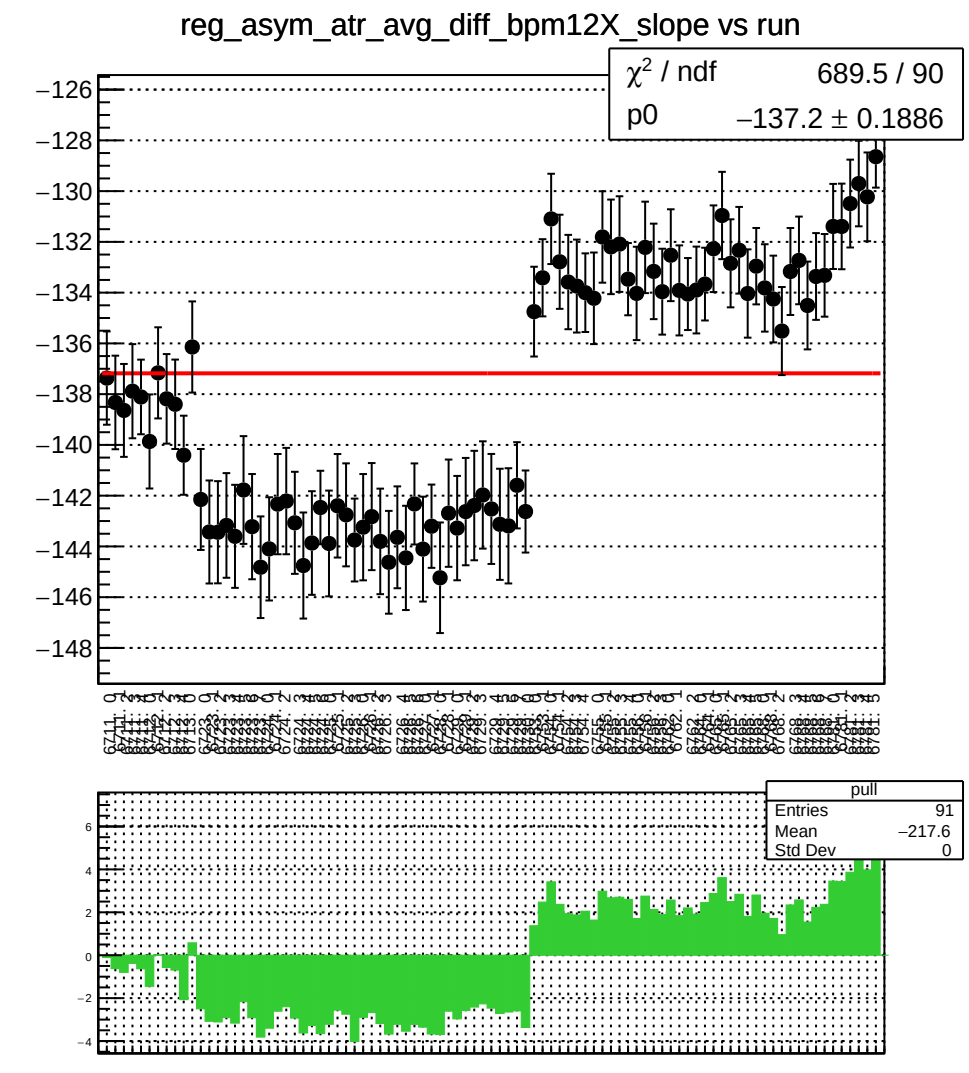

pull1D
Entries 91
Mean −0.03832
Std Dev 0.5175

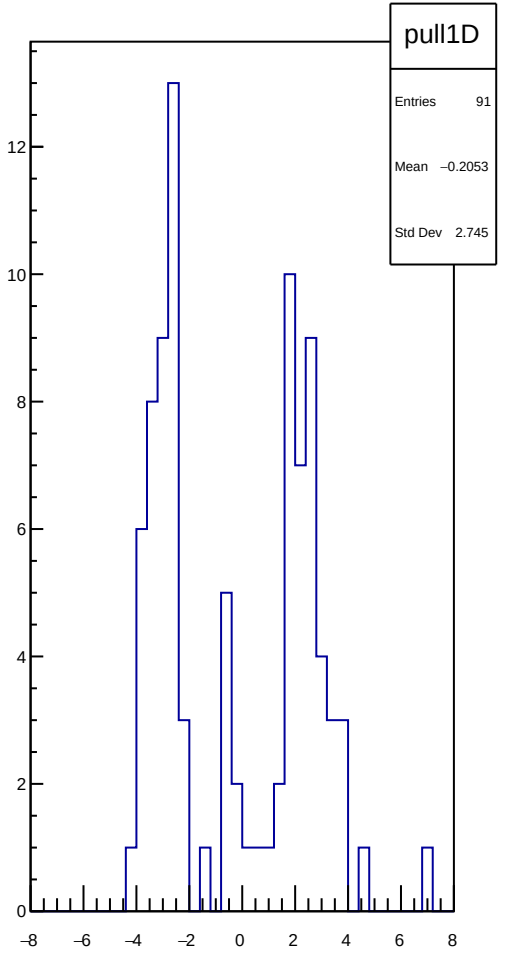

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.01 / 90
p0 289.8 ± 4.387
400
350
300
250
200
pull
Entries 91
Mean −1918
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

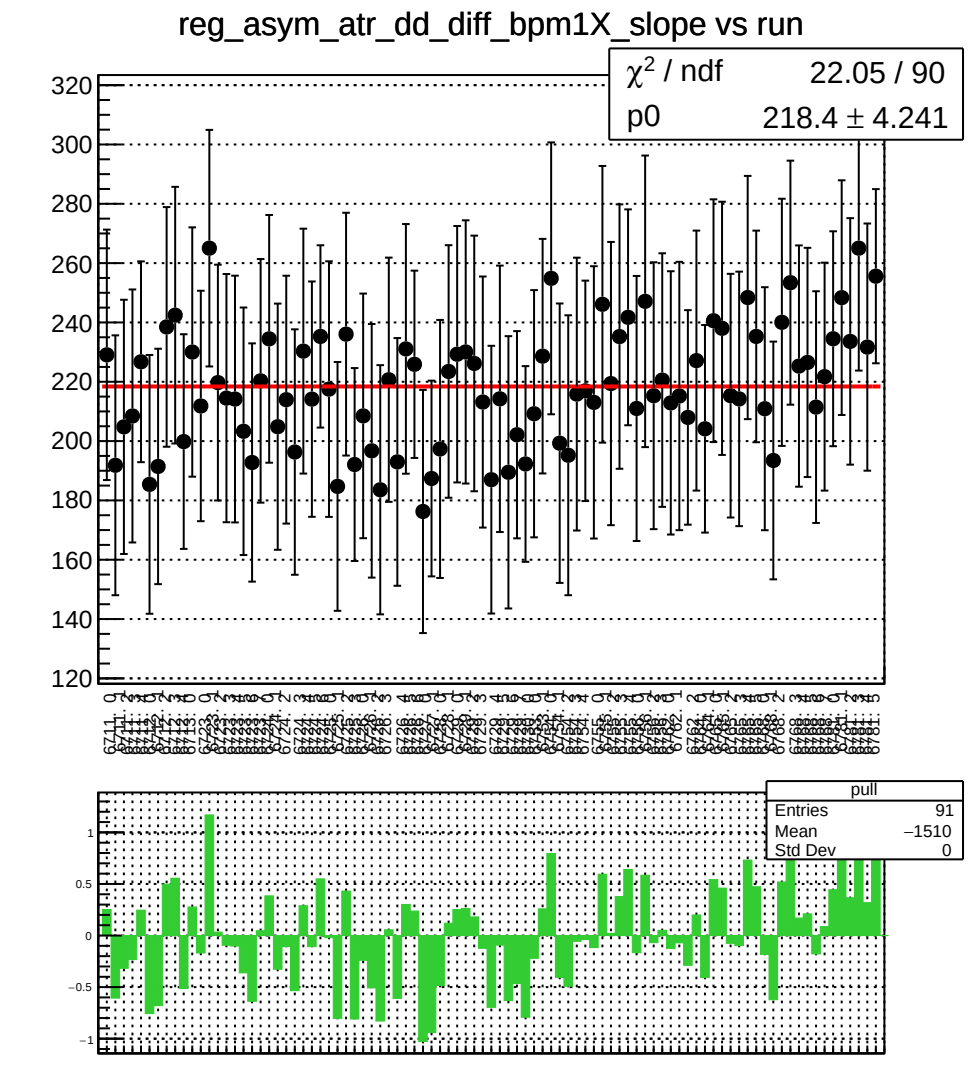

pull1D
Entries 91
Mean 0.000947
Std Dev 0.5646
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

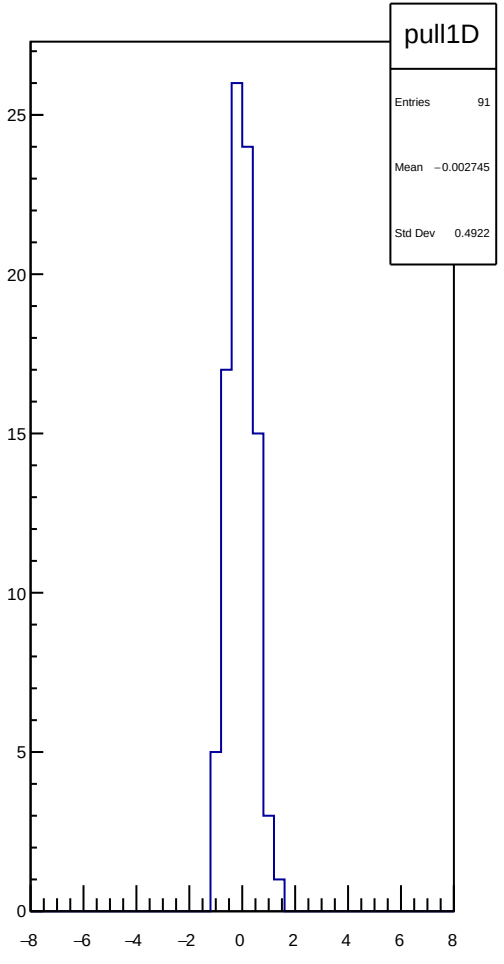

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.9 / 90
p0 41.68 ± 3.259
pull
Entries 91
Mean −91.96
Std Dev 0

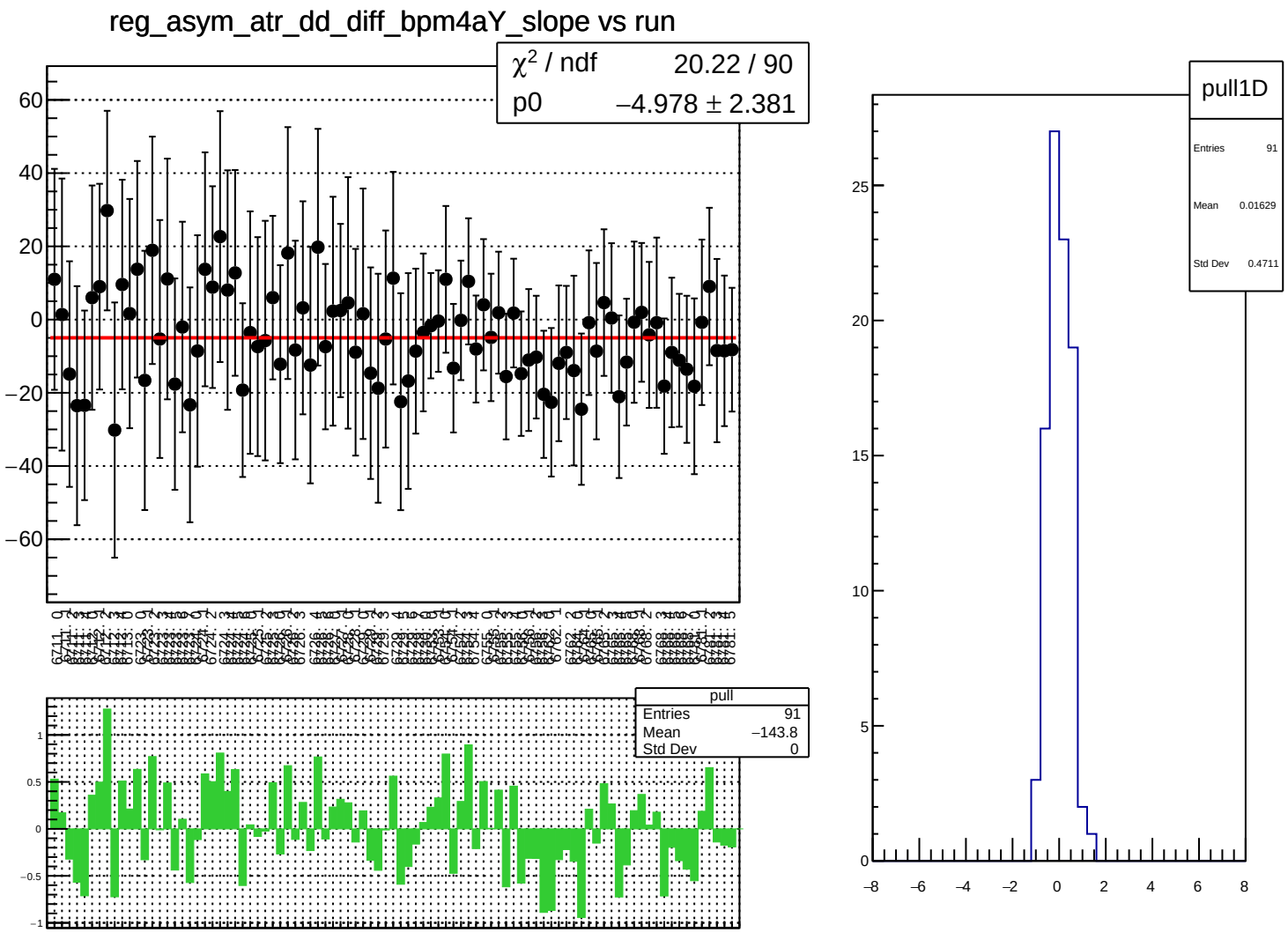

pull1D
Entries 91
Mean 0.05512
Std Dev 0.5987

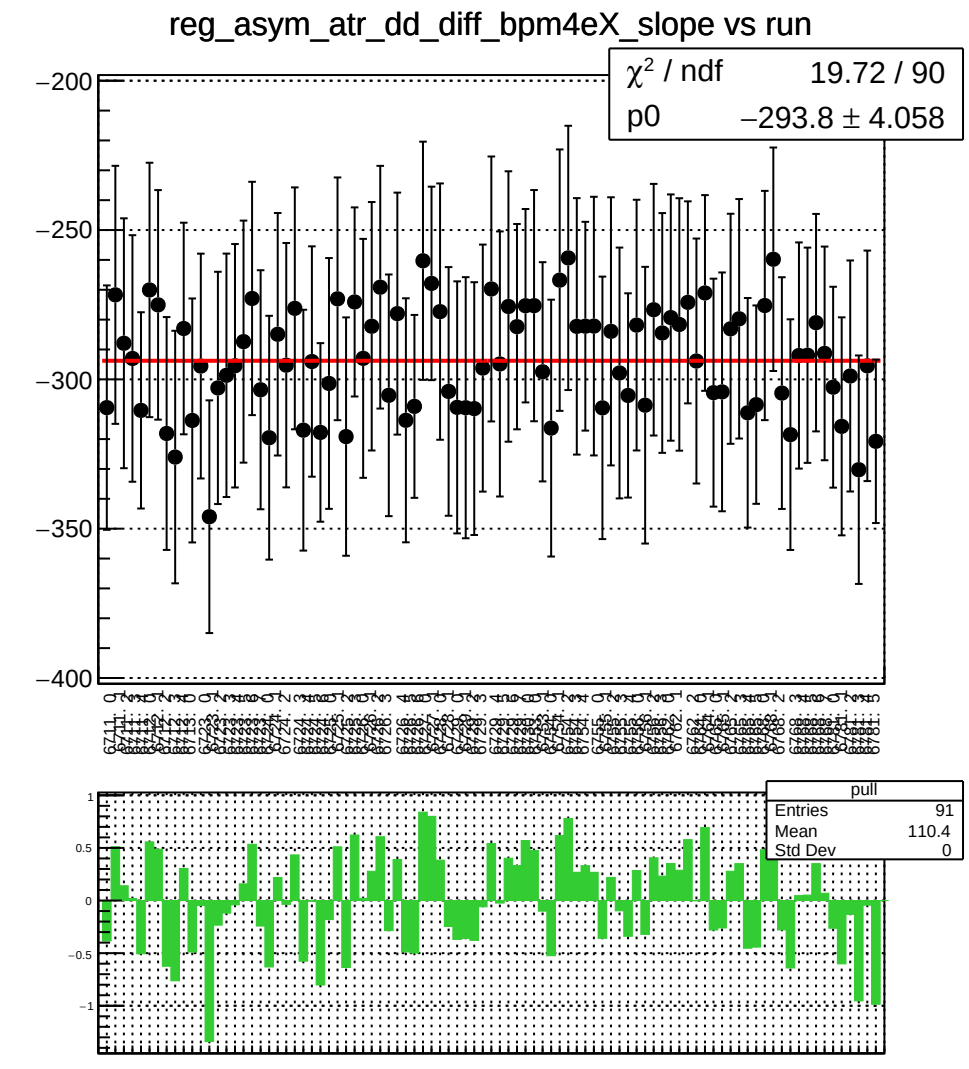

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 689.5 / 90
p0 −137.2 ± 0.1886
pull
Entries 91
Mean −217.6
Std Dev 0

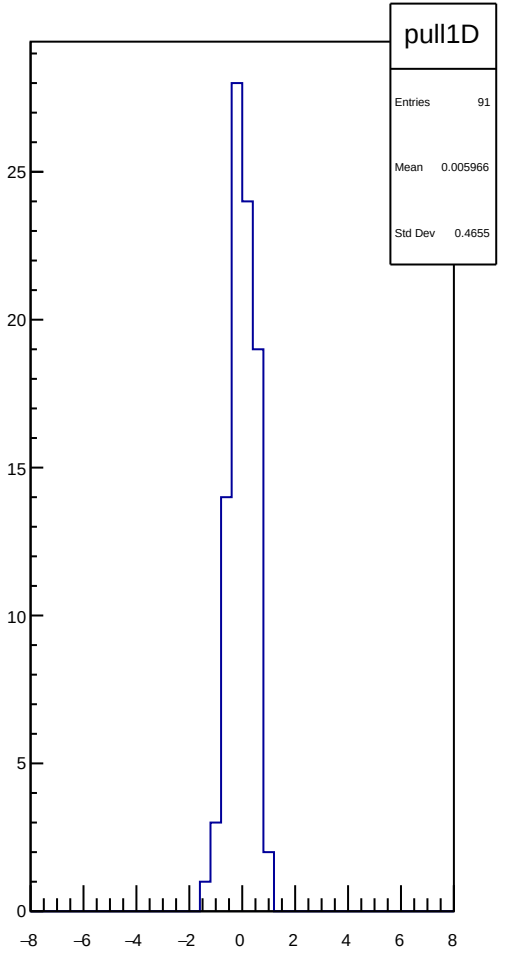

pull1D
Entries 91
Mean −0.2053
Std Dev 2.745

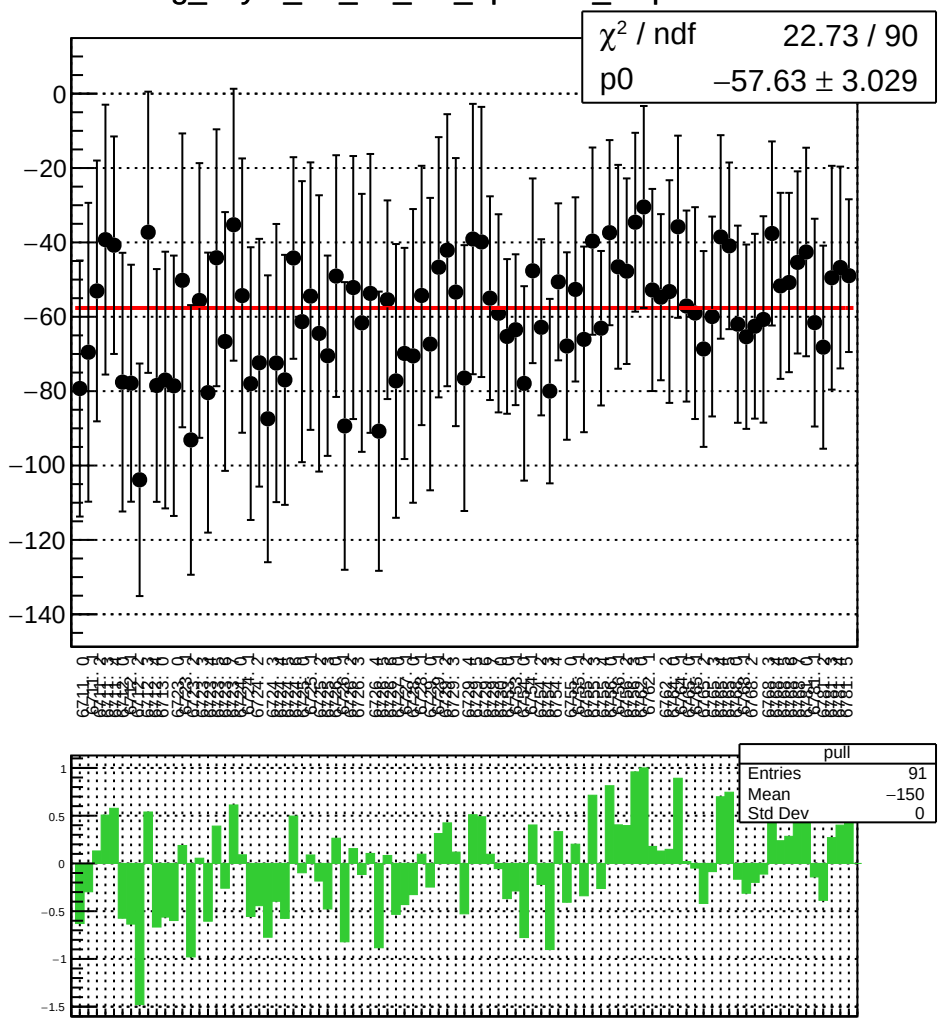

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 22.05 / 90
p0 218.4 ± 4.241
pull
Entries 91
Mean −1510
Std Dev 0

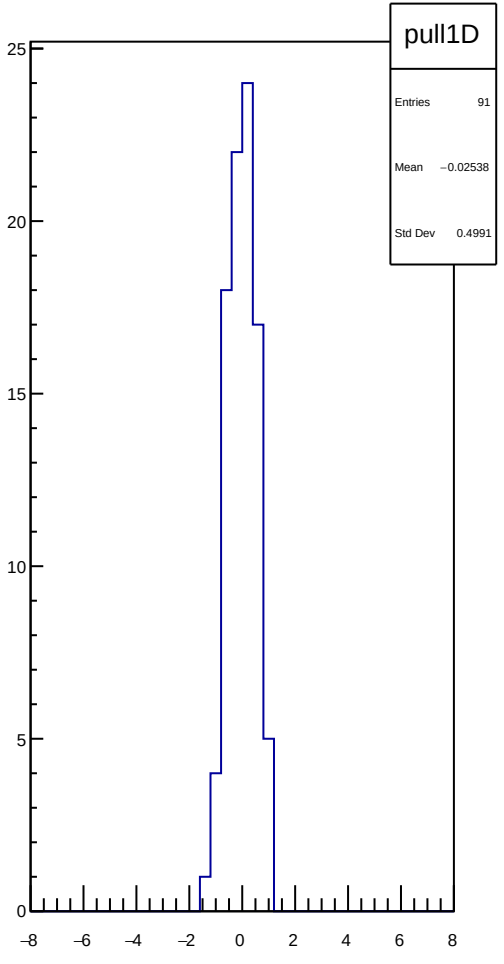

pull1D
Entries 91
Mean −0.002745
Std Dev 0.4922

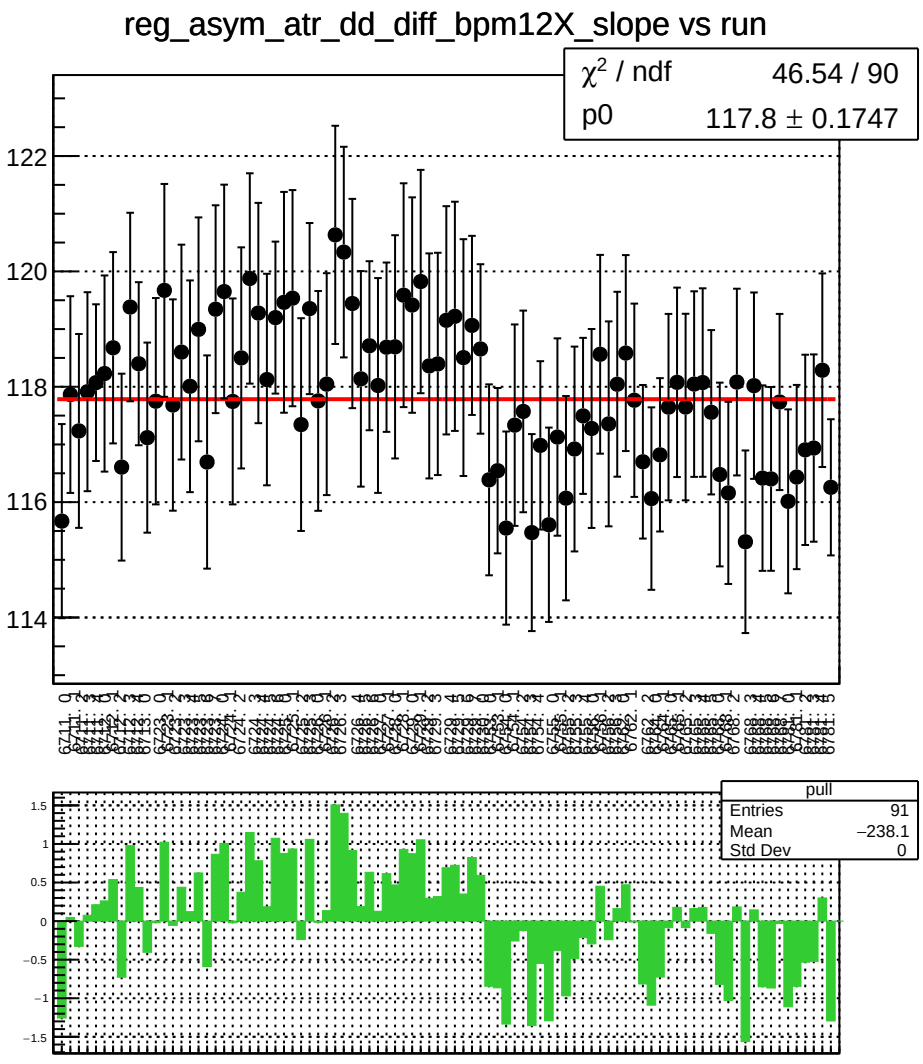

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.22 / 90
p0 −4.978 ± 2.381
pull
Entries 91
Mean −143.8
Std Dev 0
pull1D
Entries 91
Mean 0.01629
Std Dev 0.4711

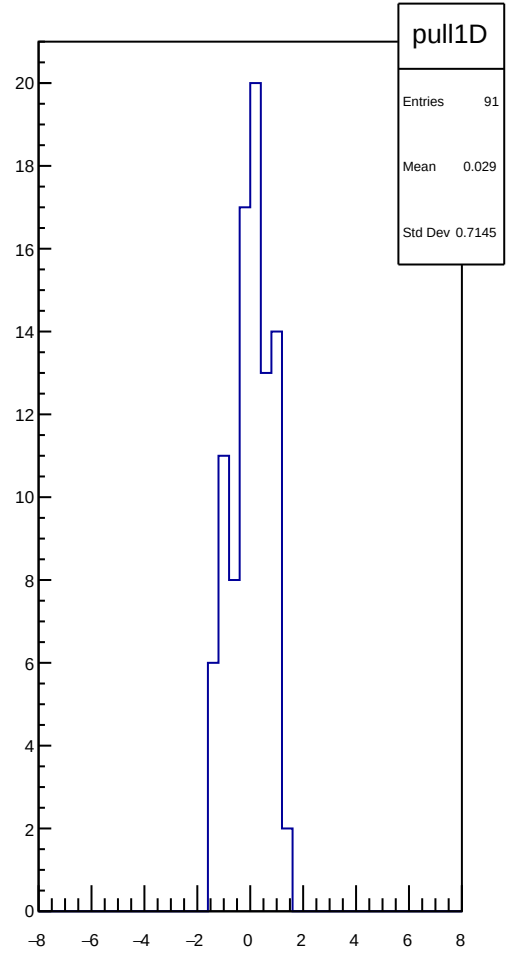

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.72 / 90
p0 −293.8 ± 4.058
−200
−250
−300
−350
−400
pull
Entries 91
Mean 110.4
Std Dev 0
1
0.5
0
−0.5
−1

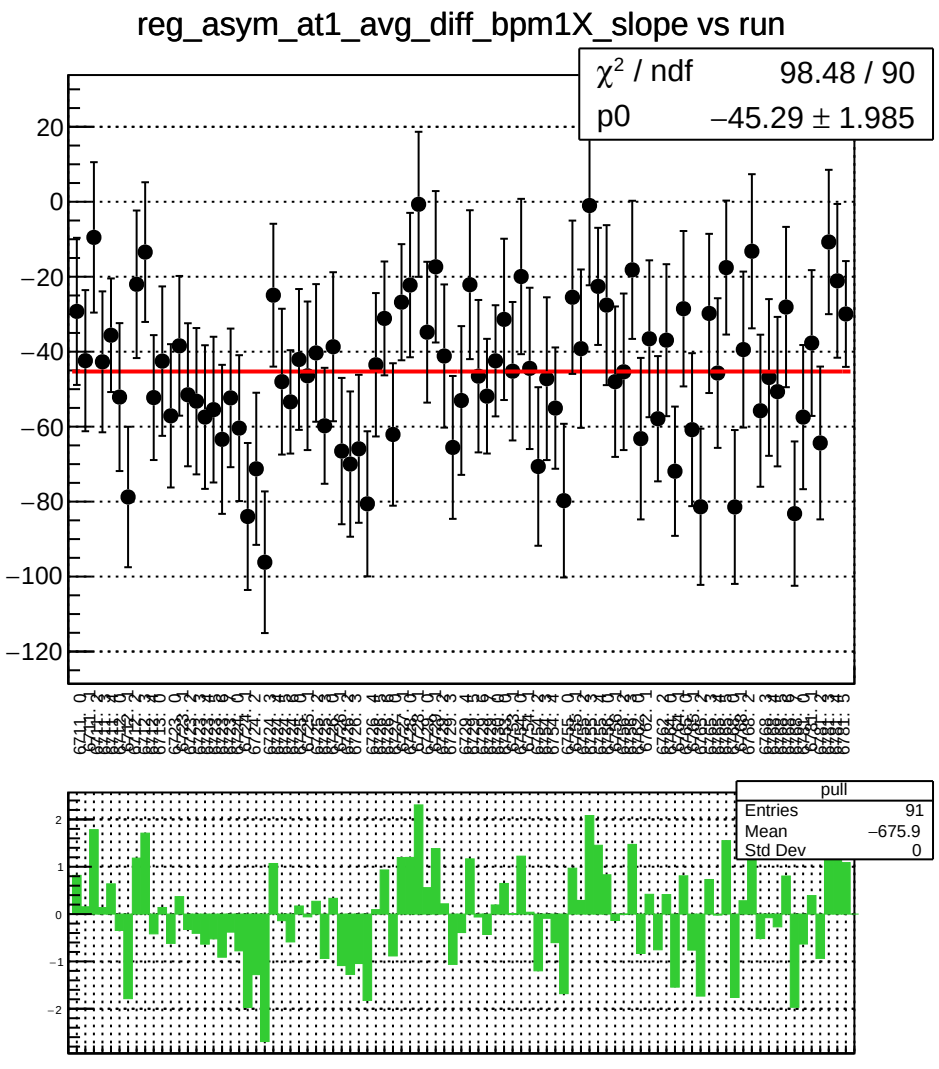

pull1D
Entries 91
Mean 0.005966
Std Dev 0.4655
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

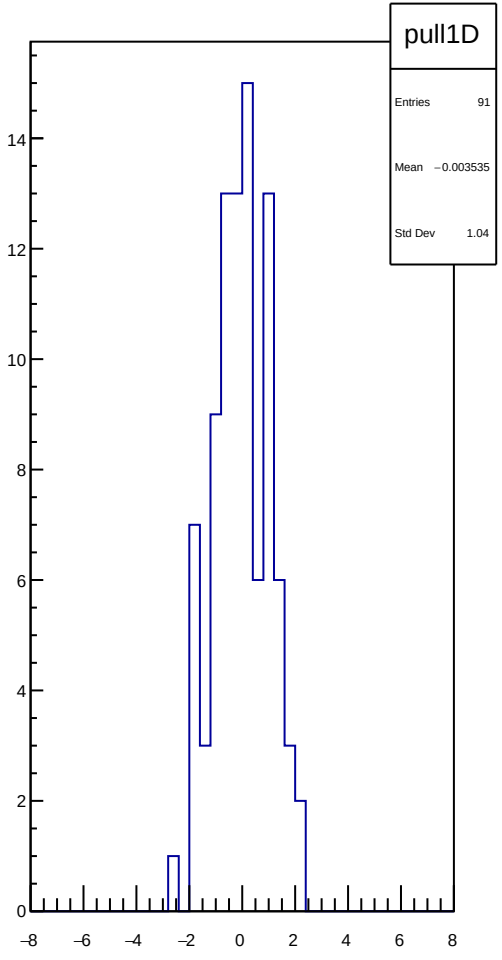

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.73 / 90
p0 −57.63 ± 3.029
pull
Entries 91
Mean −150
Std Dev 0

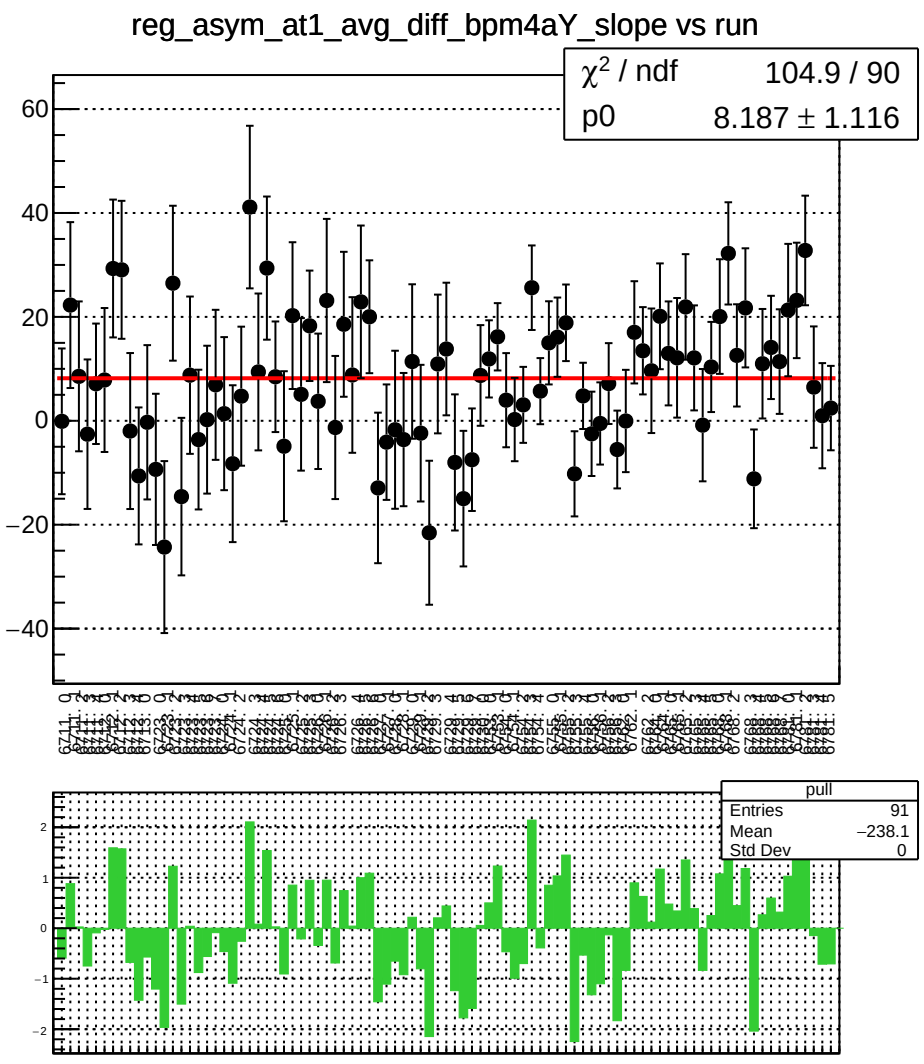

pull1D
Entries 91
Mean −0.02538
Std Dev 0.4991

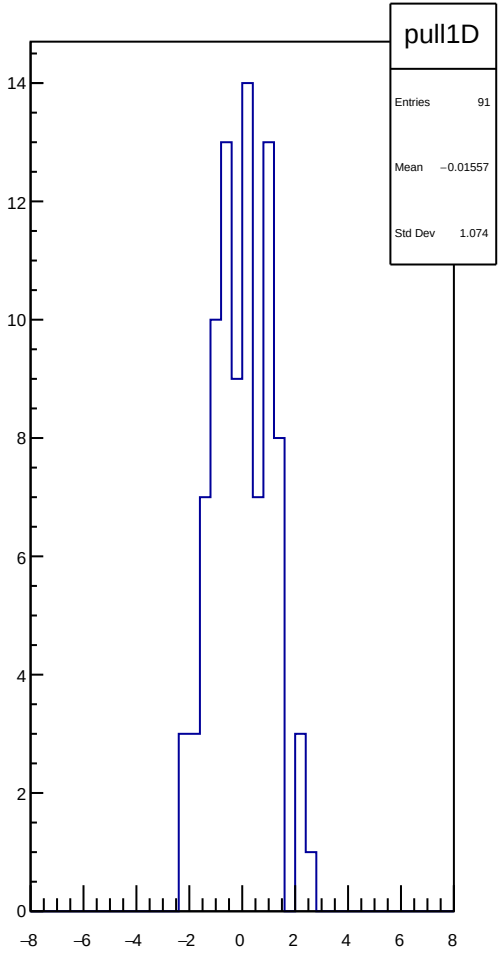

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 46.54 / 90
p0 117.8 ± 0.1747
122
120
118
116
114
pull
Entries 91
Mean −238.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

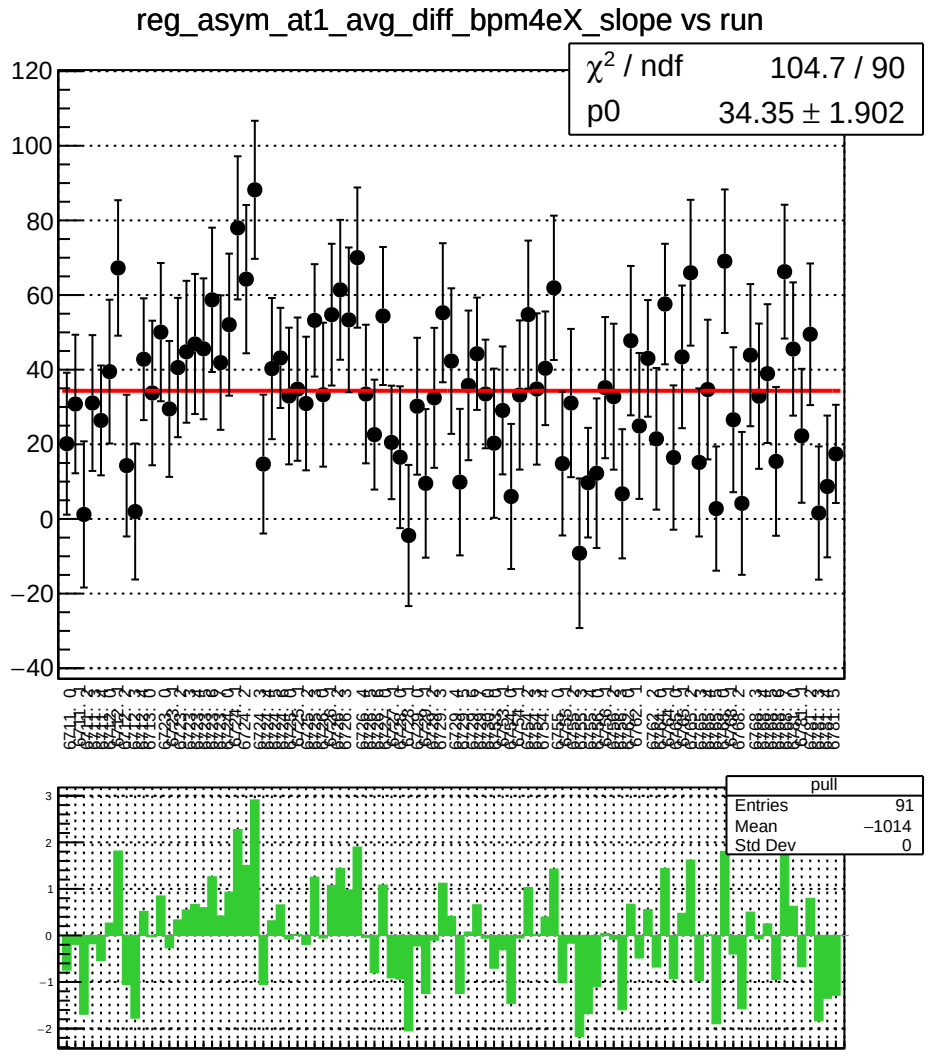

pull1D
Entries 91
Mean 0.029
Std Dev 0.7145
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

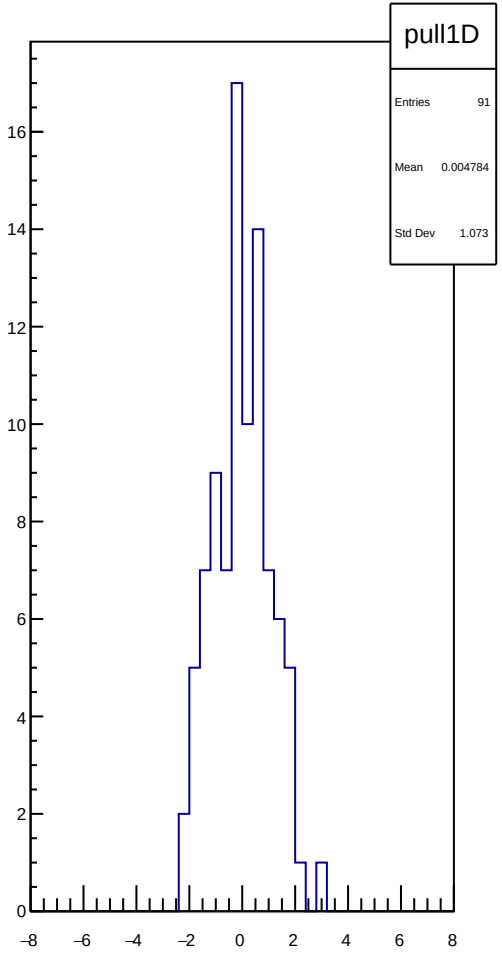

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 98.48 / 90
p0 −45.29 ± 1.985
pull
Entries 91
Mean −675.9
Std Dev 0

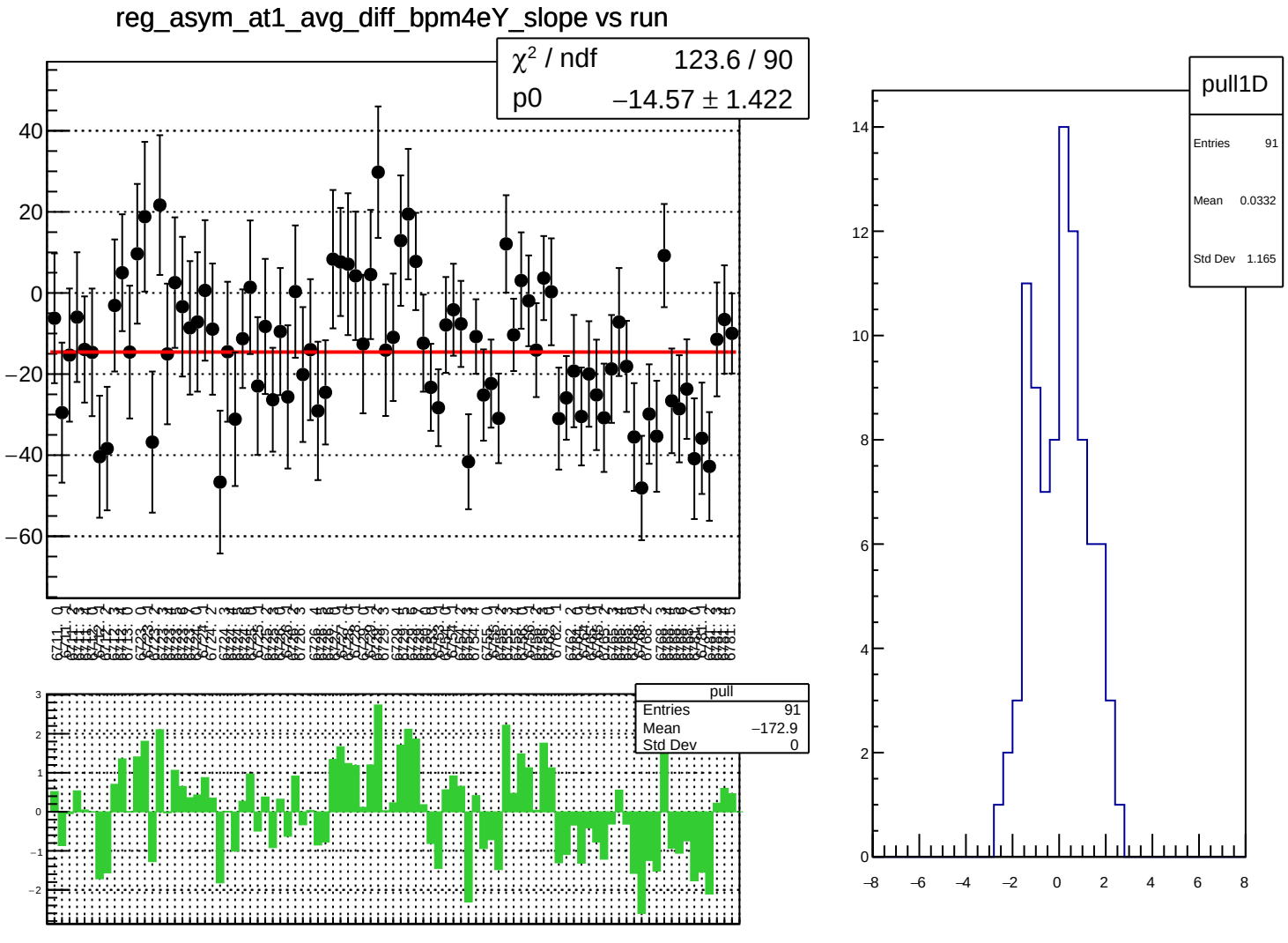

pull1D
Entries 91
Mean −0.003535
Std Dev 1.04

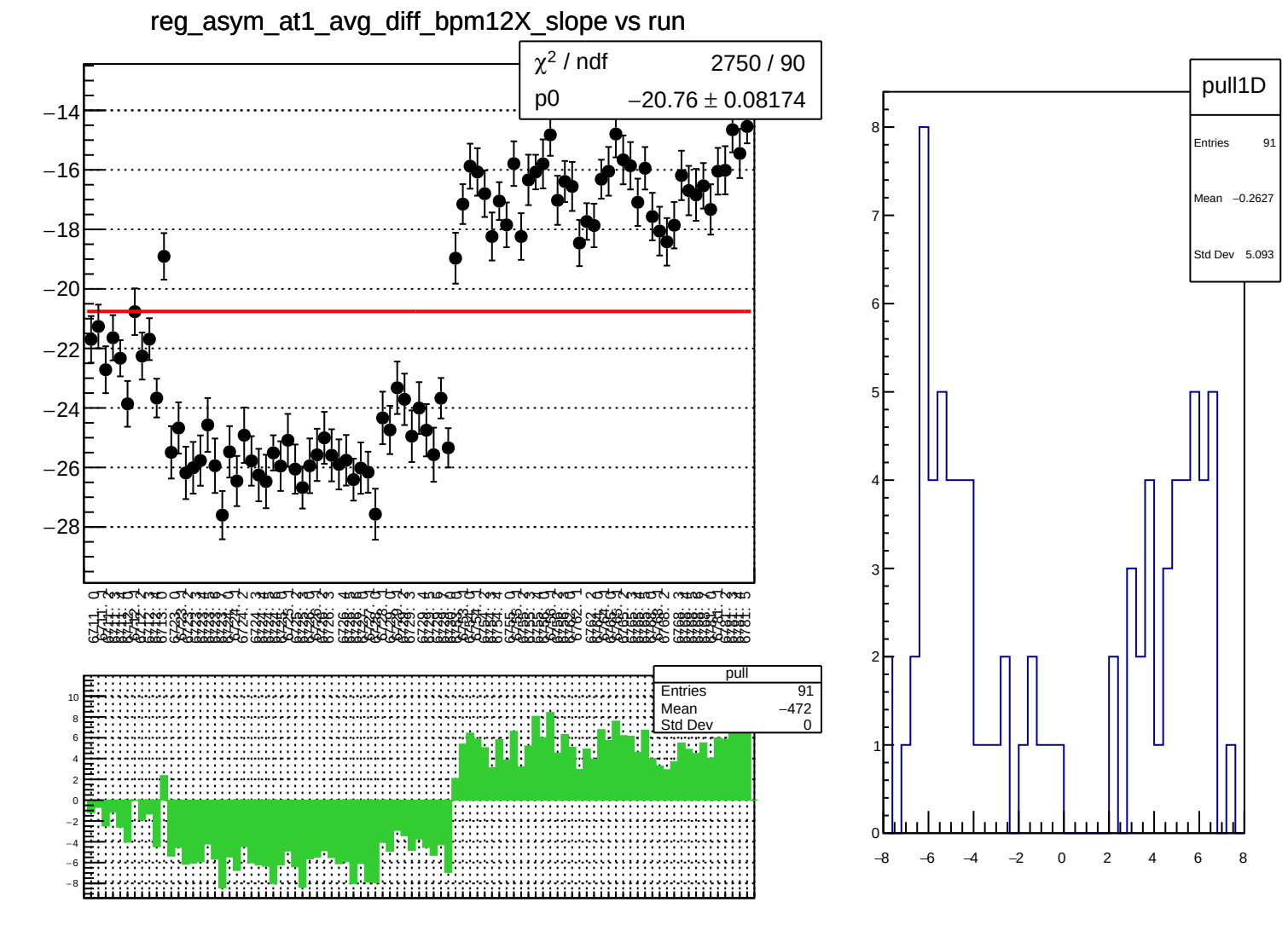

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 104.9 / 90
p0 8.187 ± 1.116
pull
Entries 91
Mean −238.1
Std Dev 0

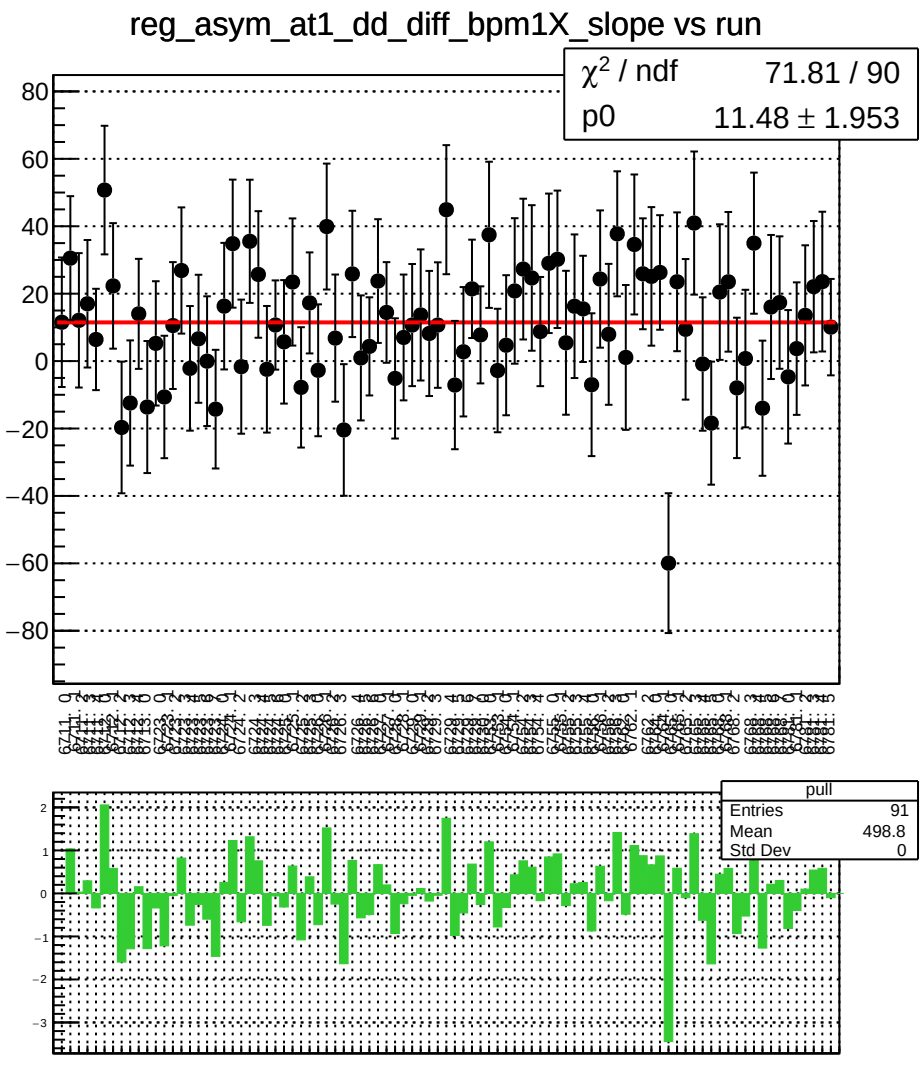

pull1D
Entries 91
Mean −0.01557
Std Dev 1.074

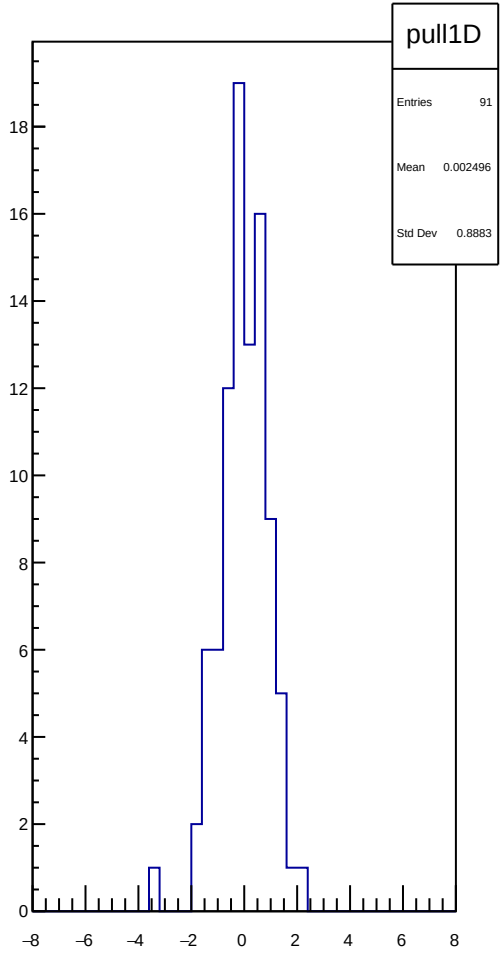

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 104.7 / 90
p0 34.35 ± 1.902
pull
Entries 91
Mean −1014
Std Dev 0

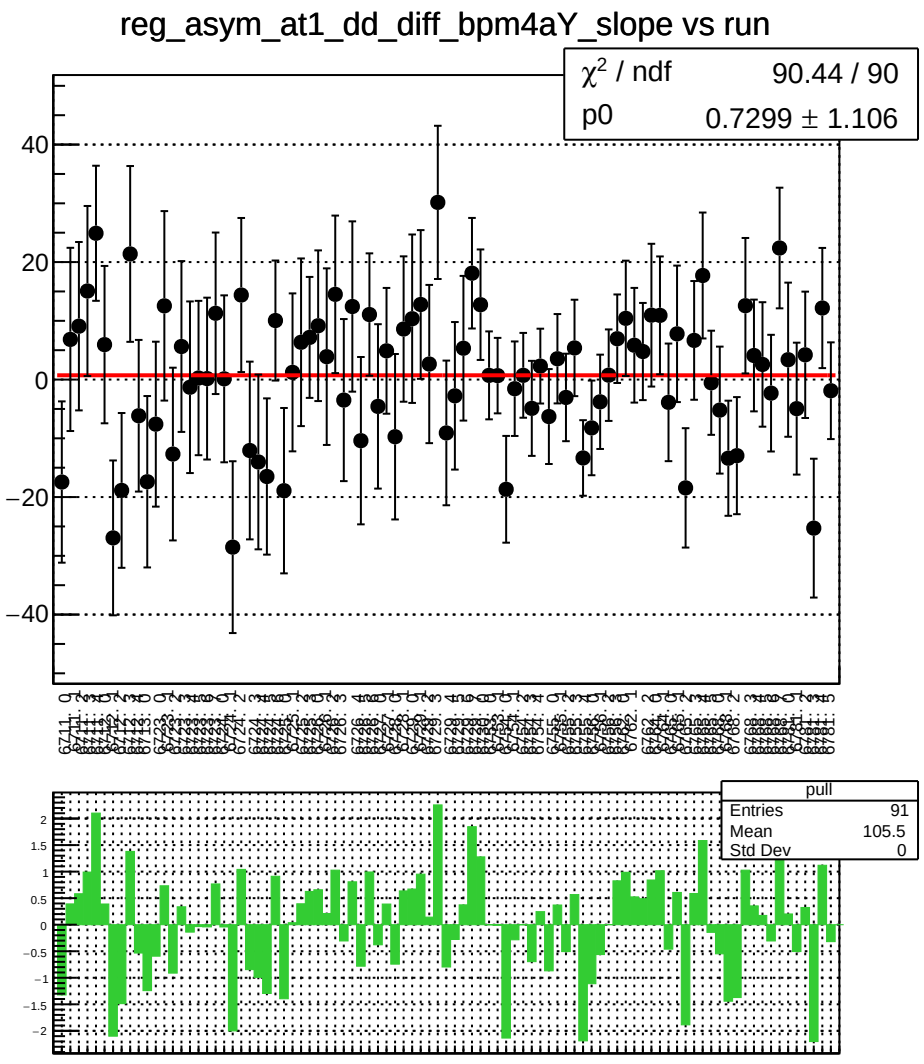

pull1D
Entries 91
Mean 0.004784
Std Dev 1.073

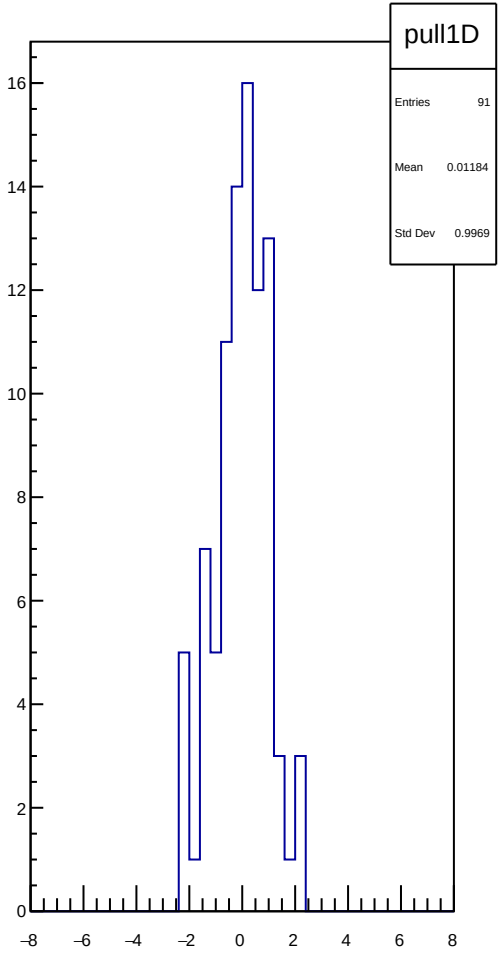

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 123.6 / 90
p0 −14.57 ± 1.422
pull
Entries 91
Mean −172.9
Std Dev 0
pull1D
Entries 91
Mean 0.0332
Std Dev 1.165

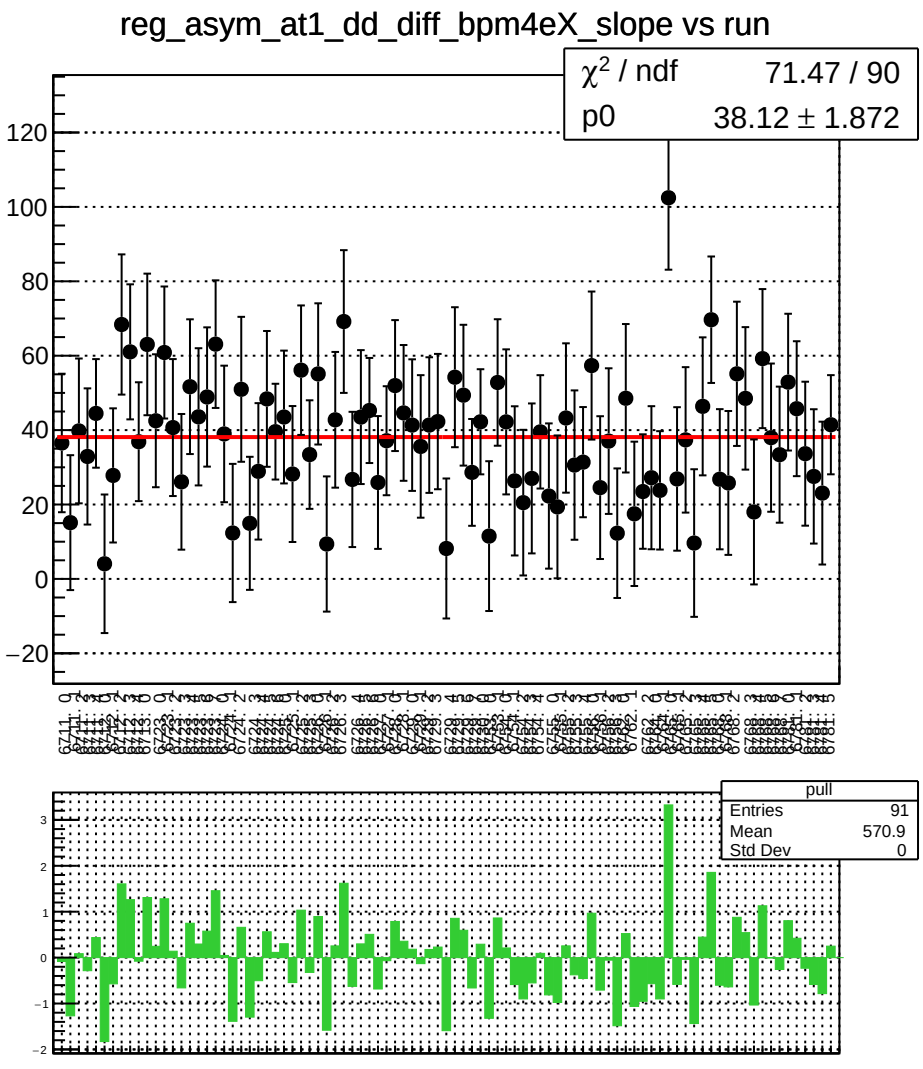

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 2750 / 90
p0 −20.76 ± 0.08174
pull
Entries 91
Mean −472
Std Dev 0
pull1D
Entries 91
Mean −0.2627
Std Dev 5.093

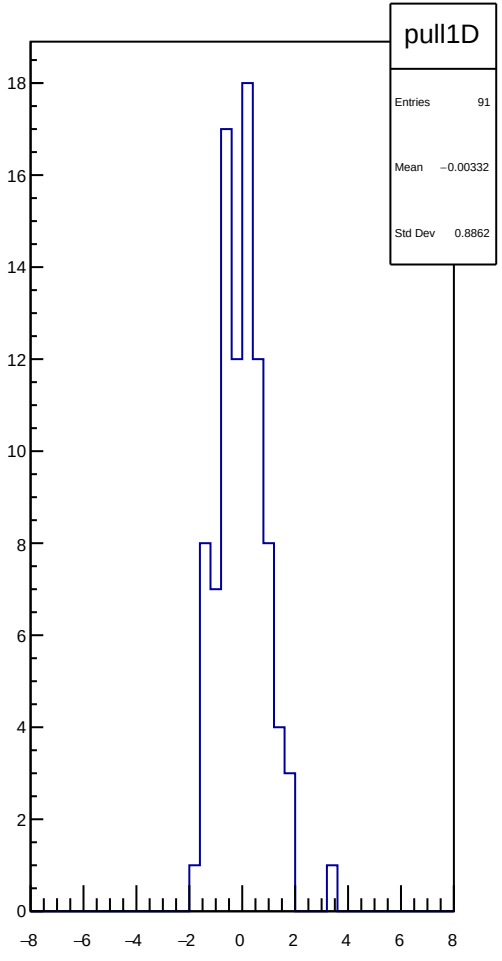

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 71.81 / 90
p0 11.48 ± 1.953
pull
Entries 91
Mean 498.8
Std Dev 0

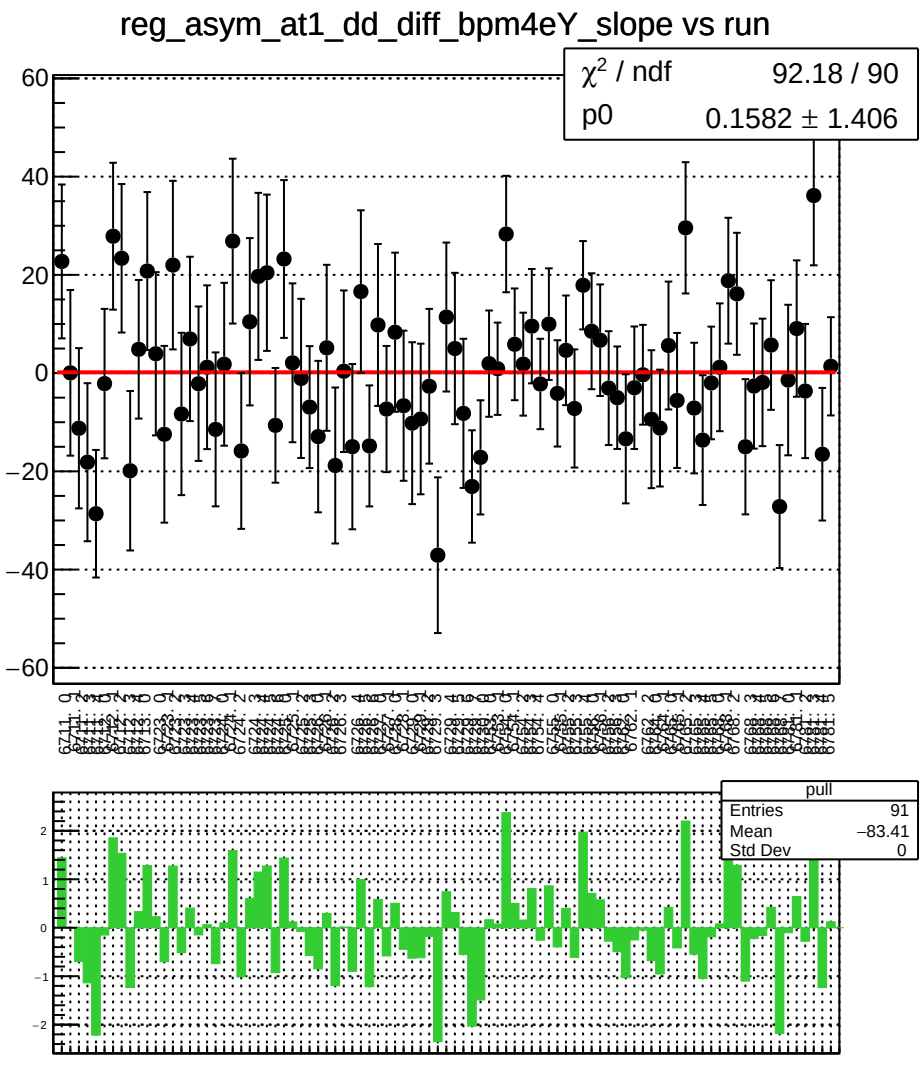

pull1D
Entries 91
Mean 0.002496
Std Dev 0.8883

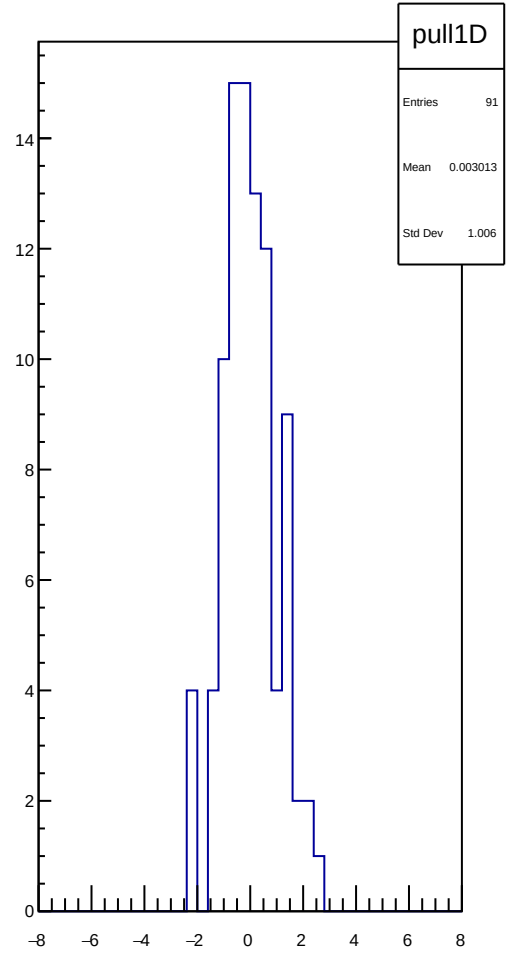

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 90.44 / 90
p0 0.7299 ± 1.106
pull
Entries 91
Mean 105.5
Std Dev 0

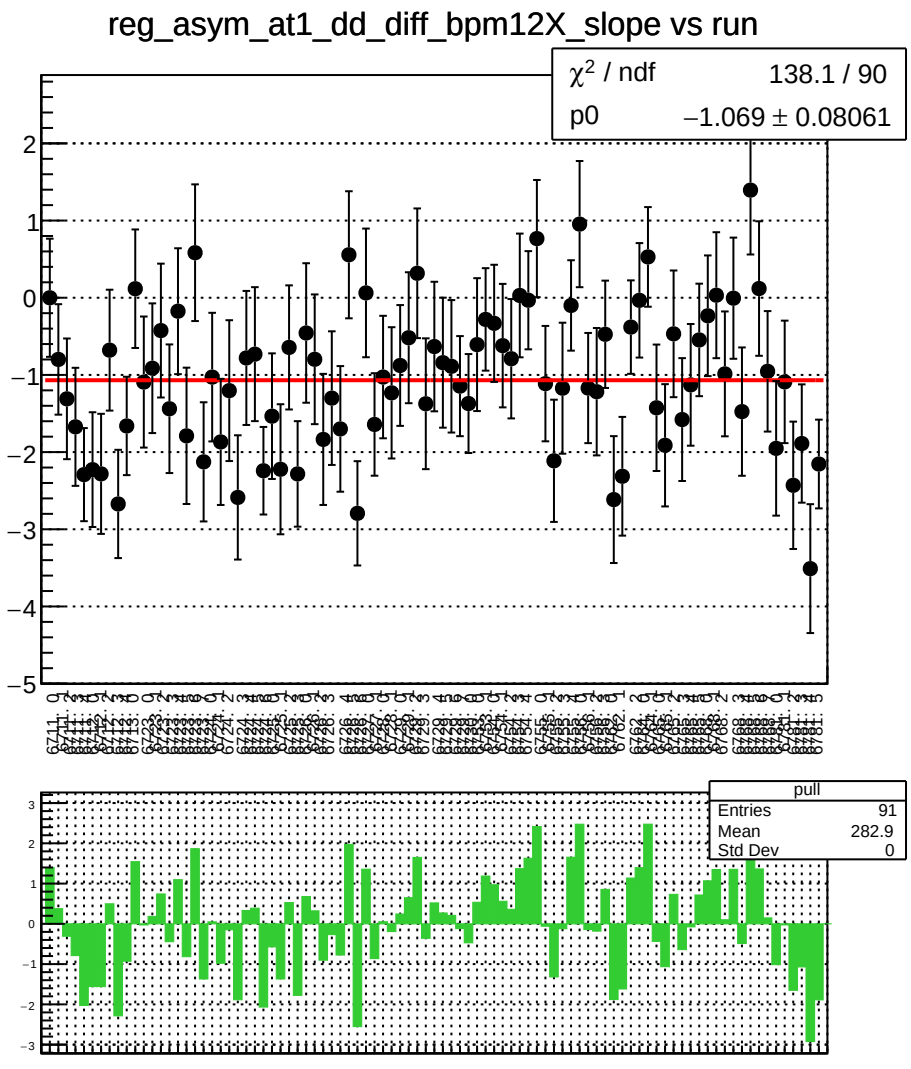

pull1D
Entries 91
Mean 0.01184
Std Dev 0.9969

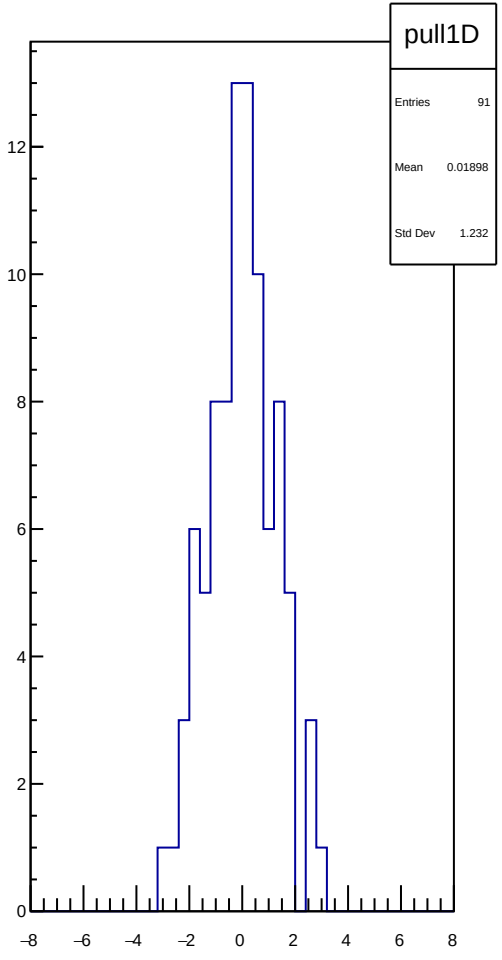

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 71.47 / 90
p0 38.12 ± 1.872
pull
Entries 91
Mean 570.9
Std Dev 0

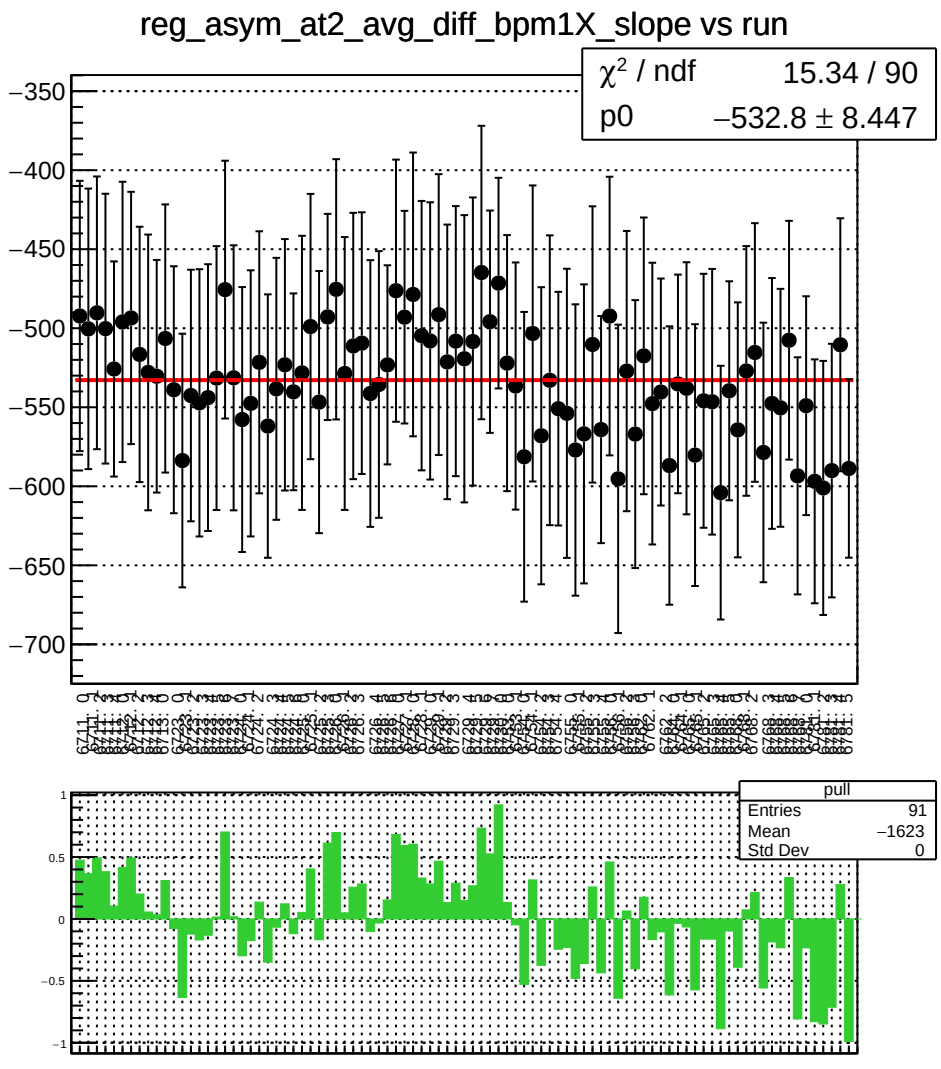

pull1D
Entries 91
Mean −0.00332
Std Dev 0.8862

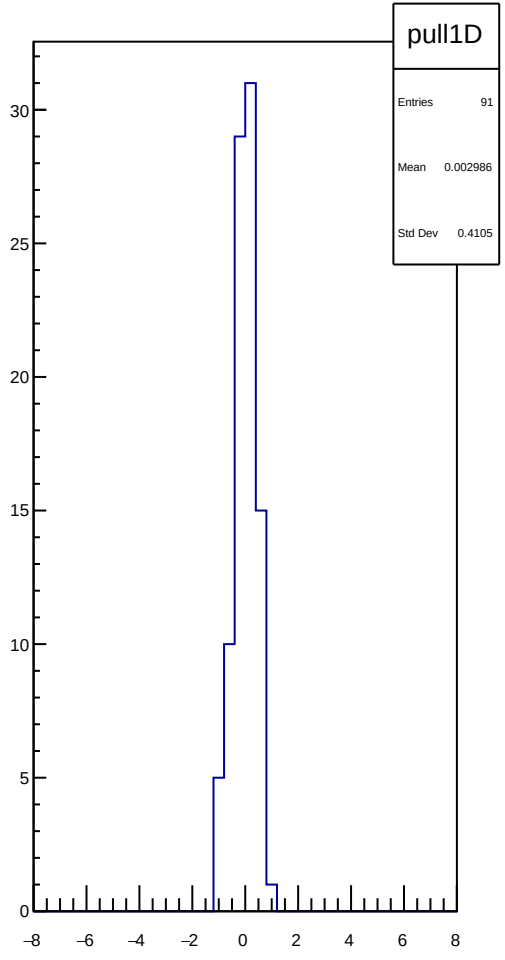

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 92.18 / 90
p0 0.1582 ± 1.406
pull
Entries 91
Mean −83.41
Std Dev 0

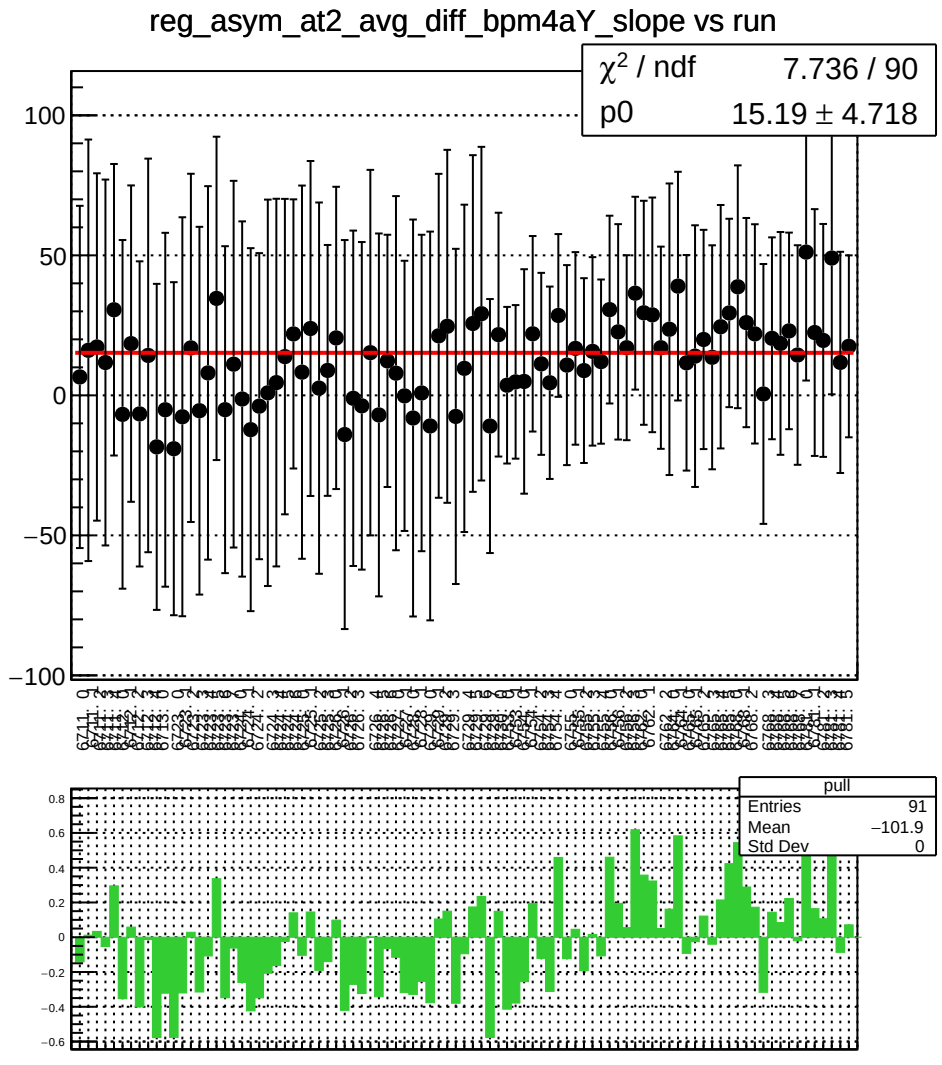

pull1D
Entries 91
Mean 0.003013
Std Dev 1.006

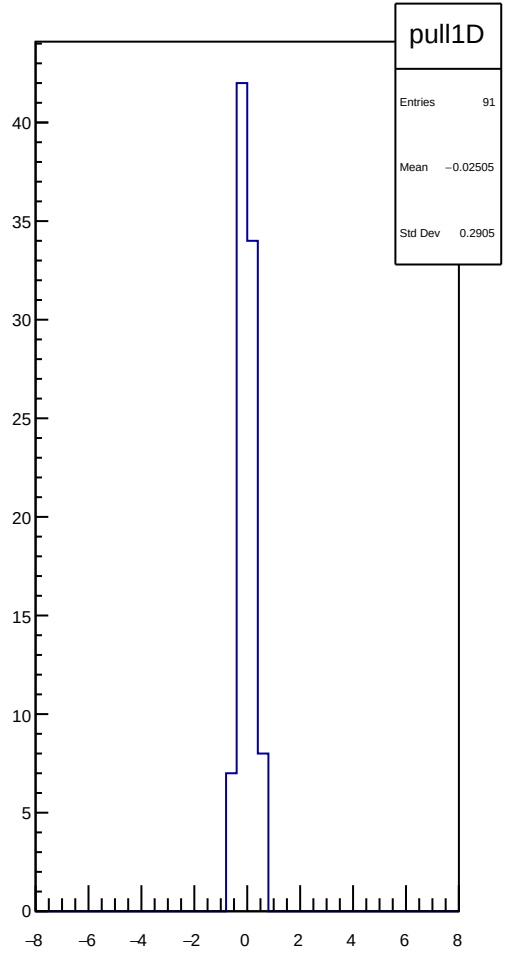

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 138.1 / 90
p0 −1.069 ± 0.08061
pull
Entries 91
Mean 282.9
Std Dev 0

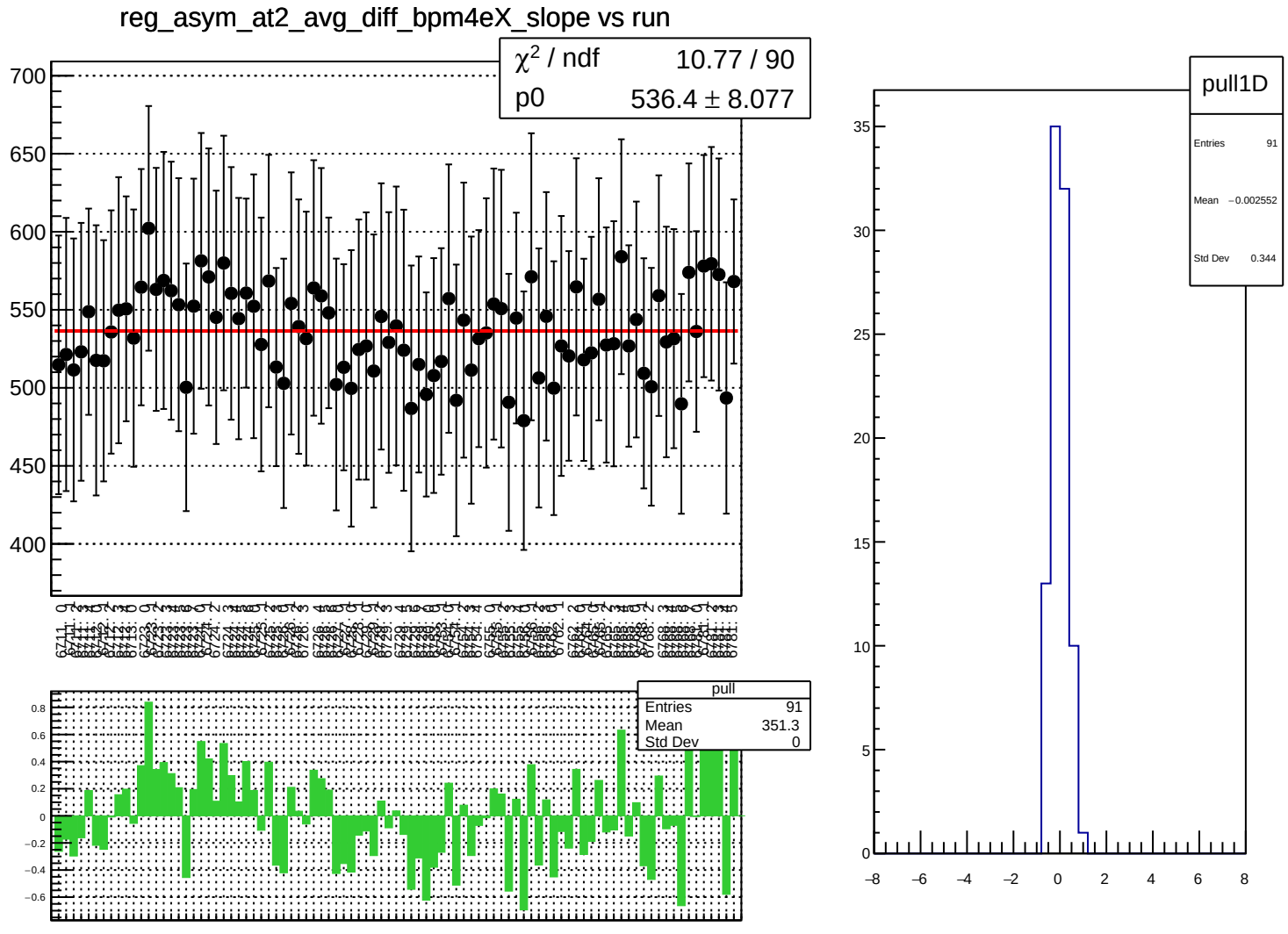

pull1D
Entries 91
Mean 0.01898
Std Dev 1.232

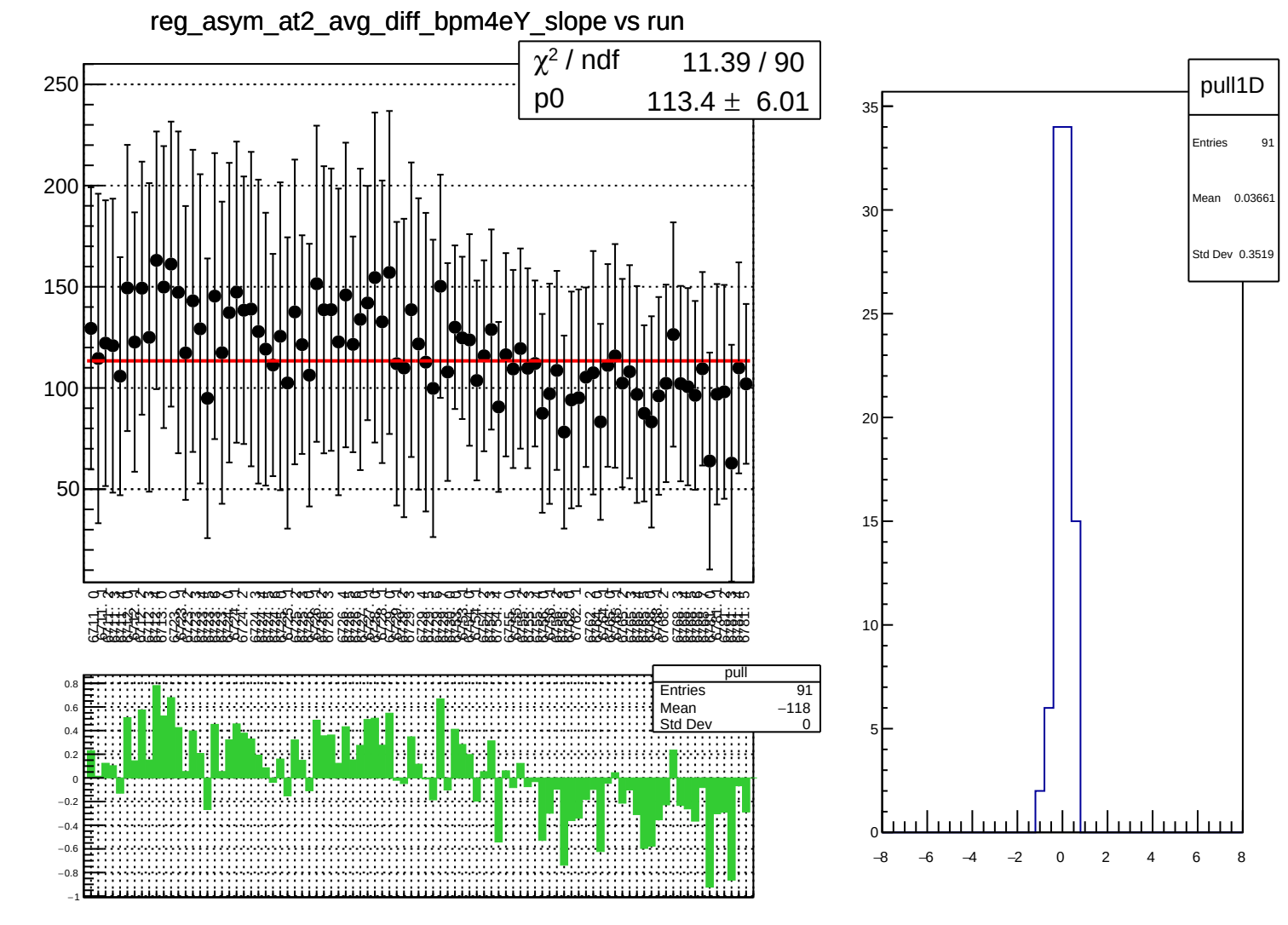

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 15.34 / 90
p0 −532.8 ± 8.447
−350
−400
−450
−500
−550
−600
−650
−700
pull
Entries 91
Mean −1623
Std Dev 0
1
0.5
0
−0.5
−1

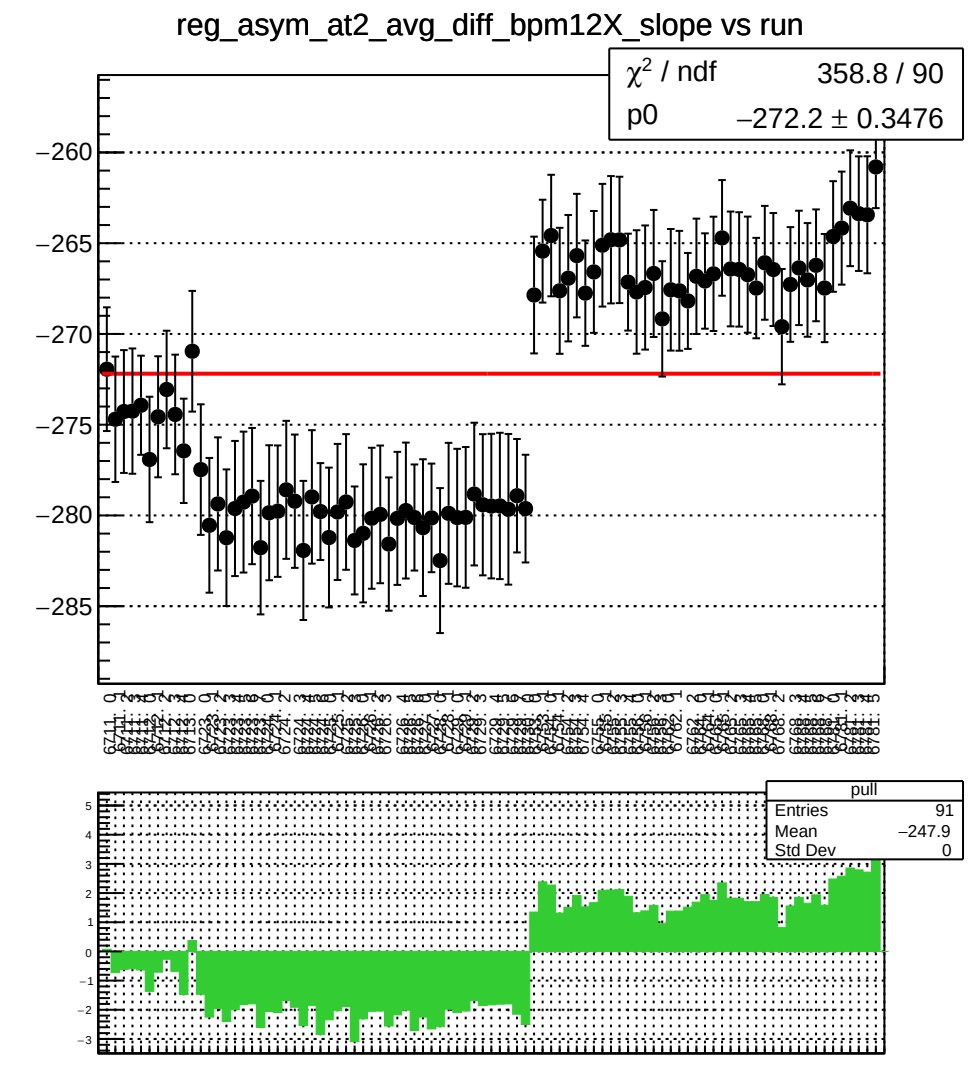

pull1D
Entries 91
Mean 0.002986
Std Dev 0.4105
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

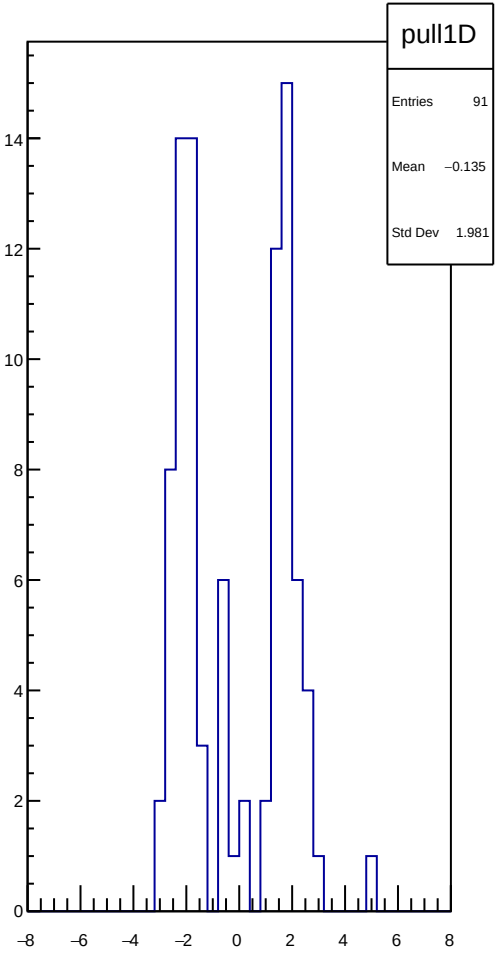

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.736 / 90
p0 15.19 ± 4.718
100
50
0
−50
−100
pull
Entries 91
Mean −101.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

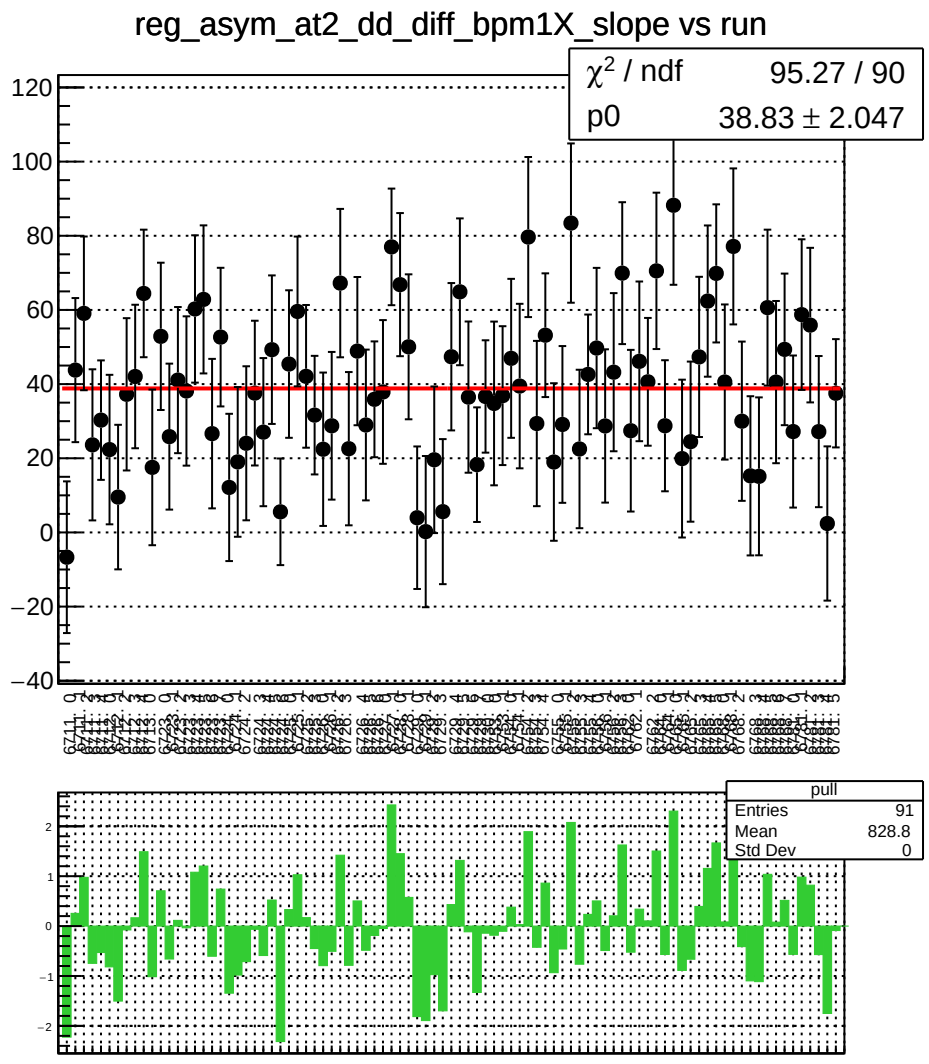

pull1D
Entries 91
Mean −0.02505
Std Dev 0.2905
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

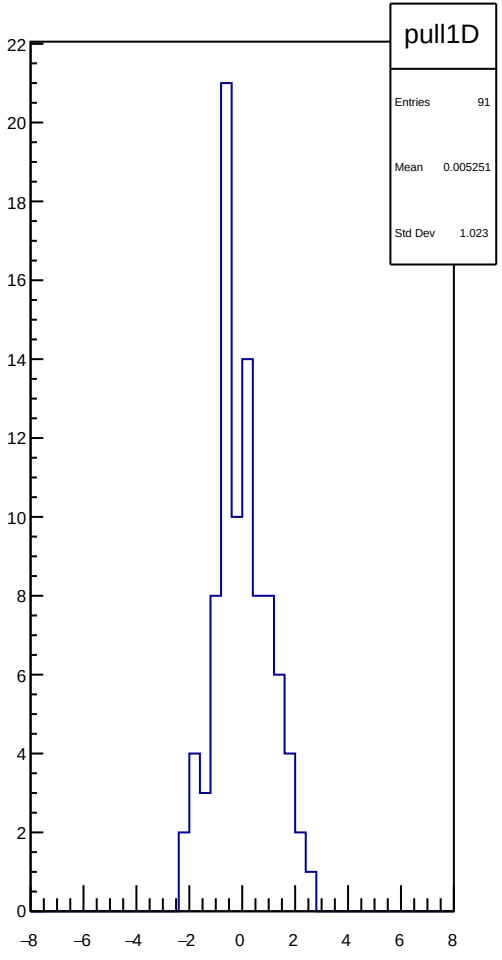

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.77 / 90
p0 536.4 ± 8.077
700
650
600
550
500
450
400
pull
Entries 91
Mean 351.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 91
Mean −0.002552
Std Dev 0.344
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

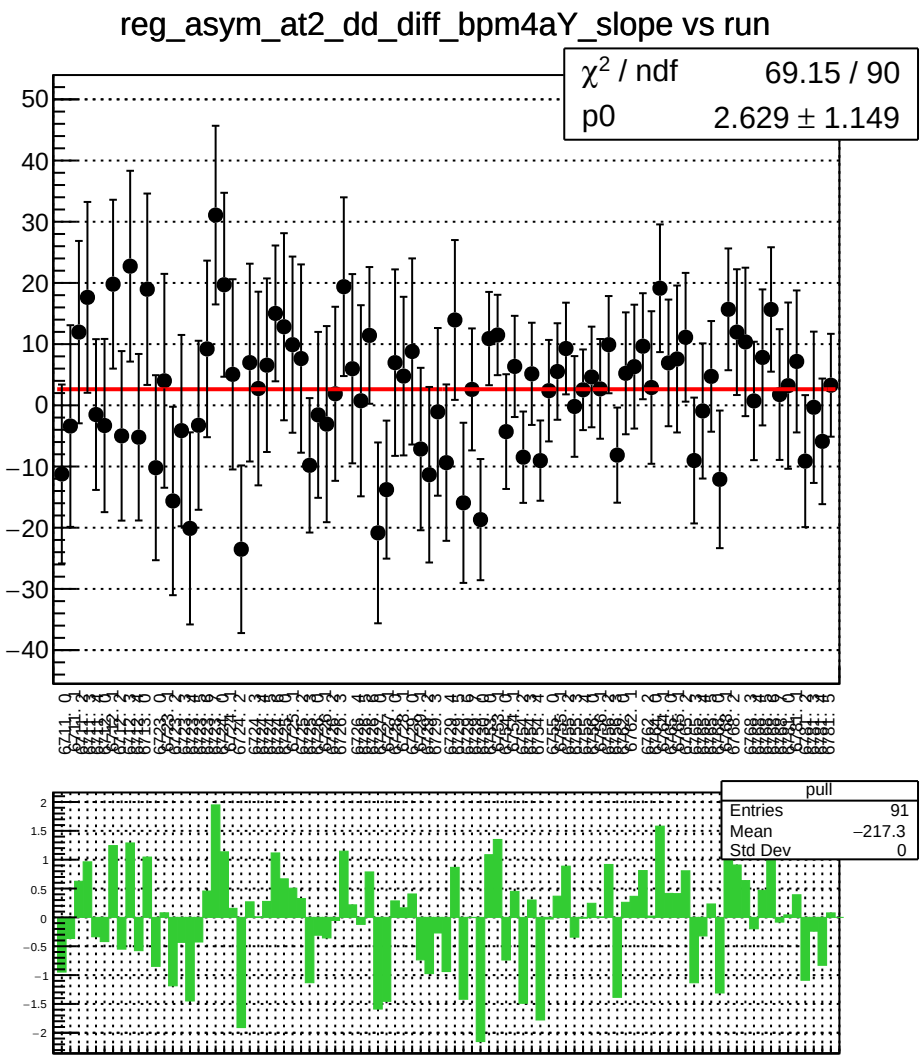

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.39 / 90
p0 113.4 ± 6.01
250
200
150
100
50
pull
Entries 91
Mean −118
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 91
Mean 0.03661
Std Dev 0.3519
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

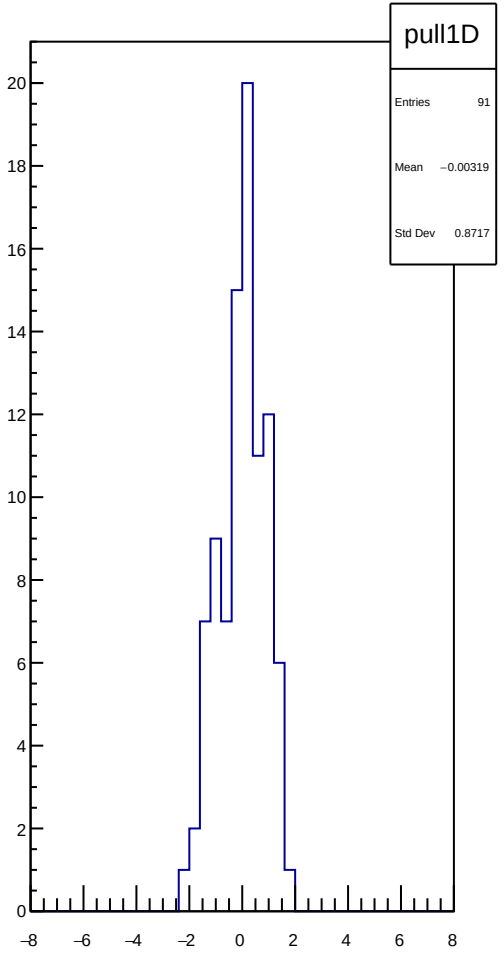

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 358.8 / 90
p0 −272.2 ± 0.3476
pull
Entries 91
Mean −247.9
Std Dev 0

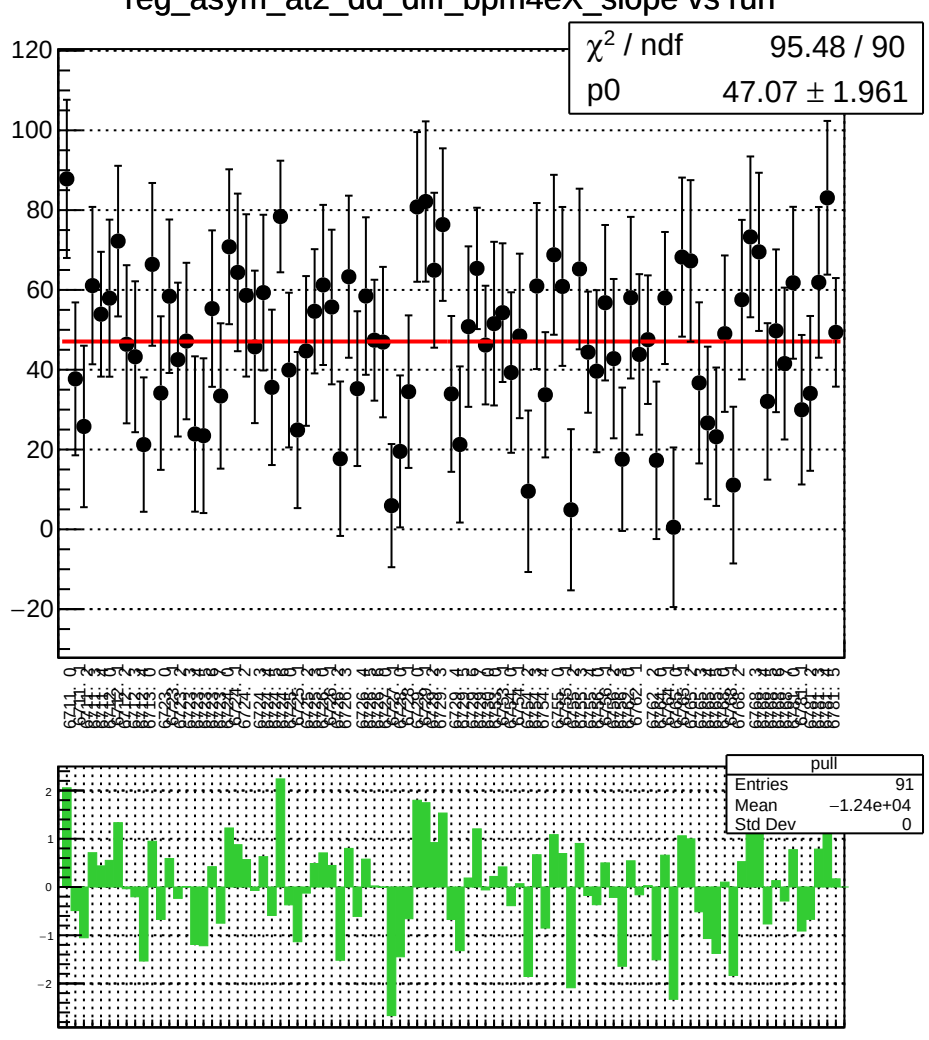

pull1D
Entries 91
Mean −0.135
Std Dev 1.981

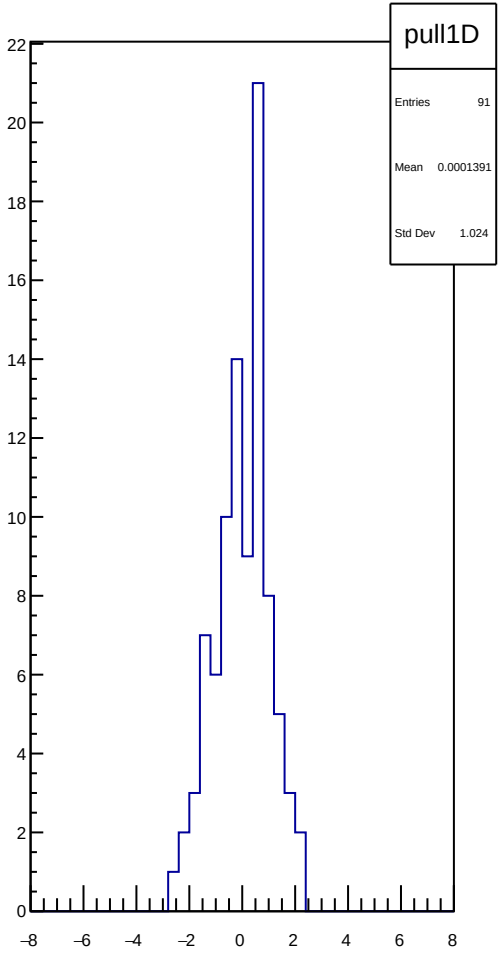

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 95.27 / 90
p0 38.83 ± 2.047
pull
Entries 91
Mean 828.8
Std Dev 0

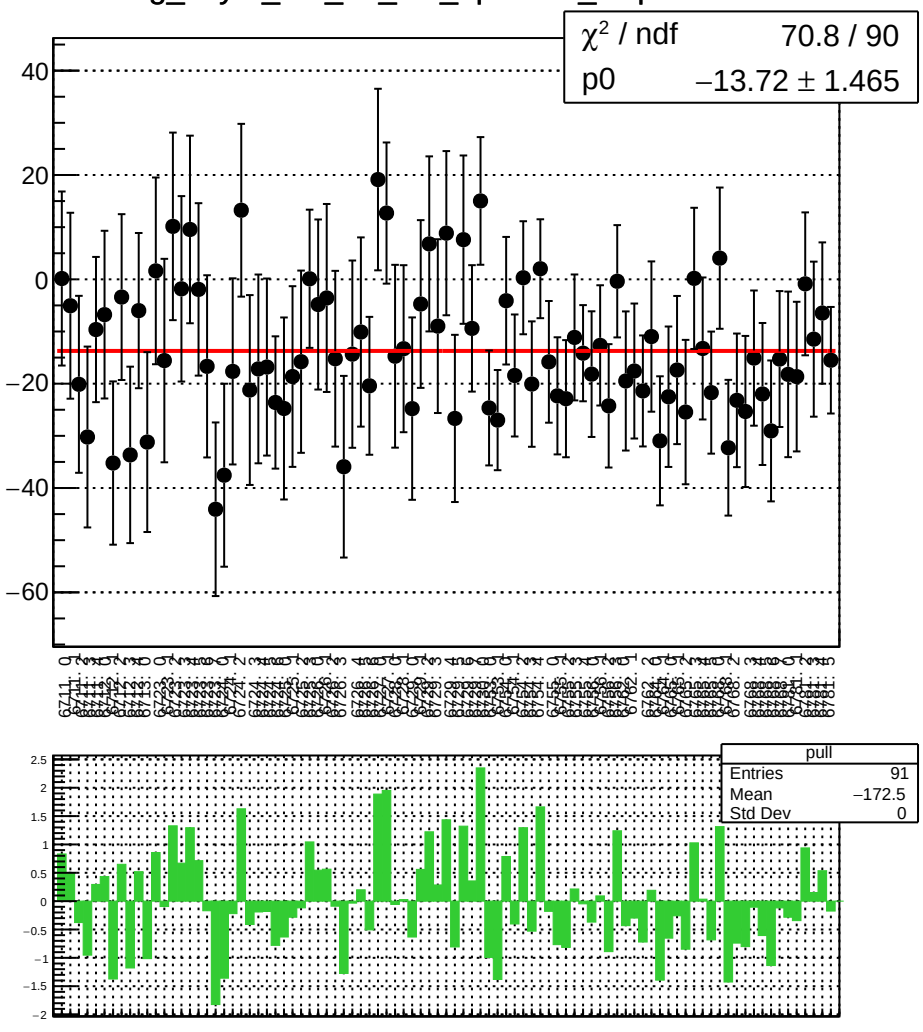

pull1D
Entries 91
Mean 0.005251
Std Dev 1.023

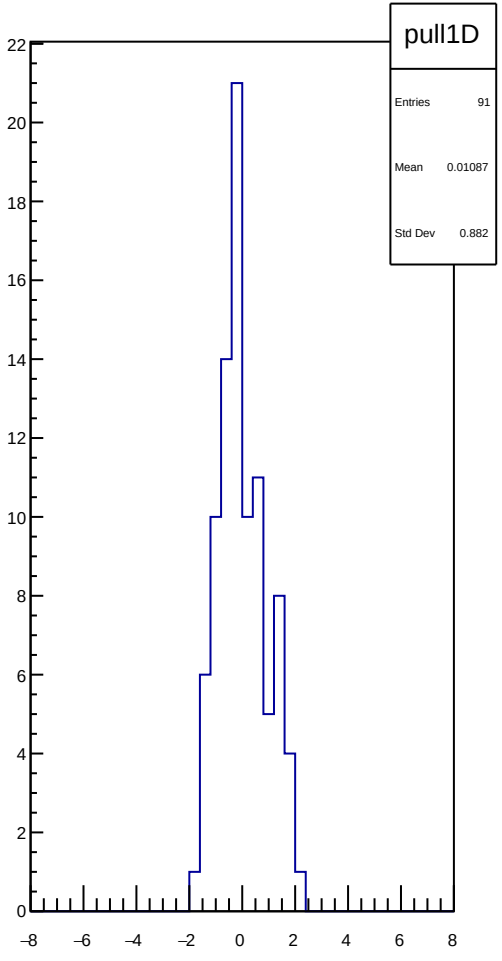

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 69.15 / 90
p0 2.629 ± 1.149
pull
Entries 91
Mean −217.3
Std Dev 0

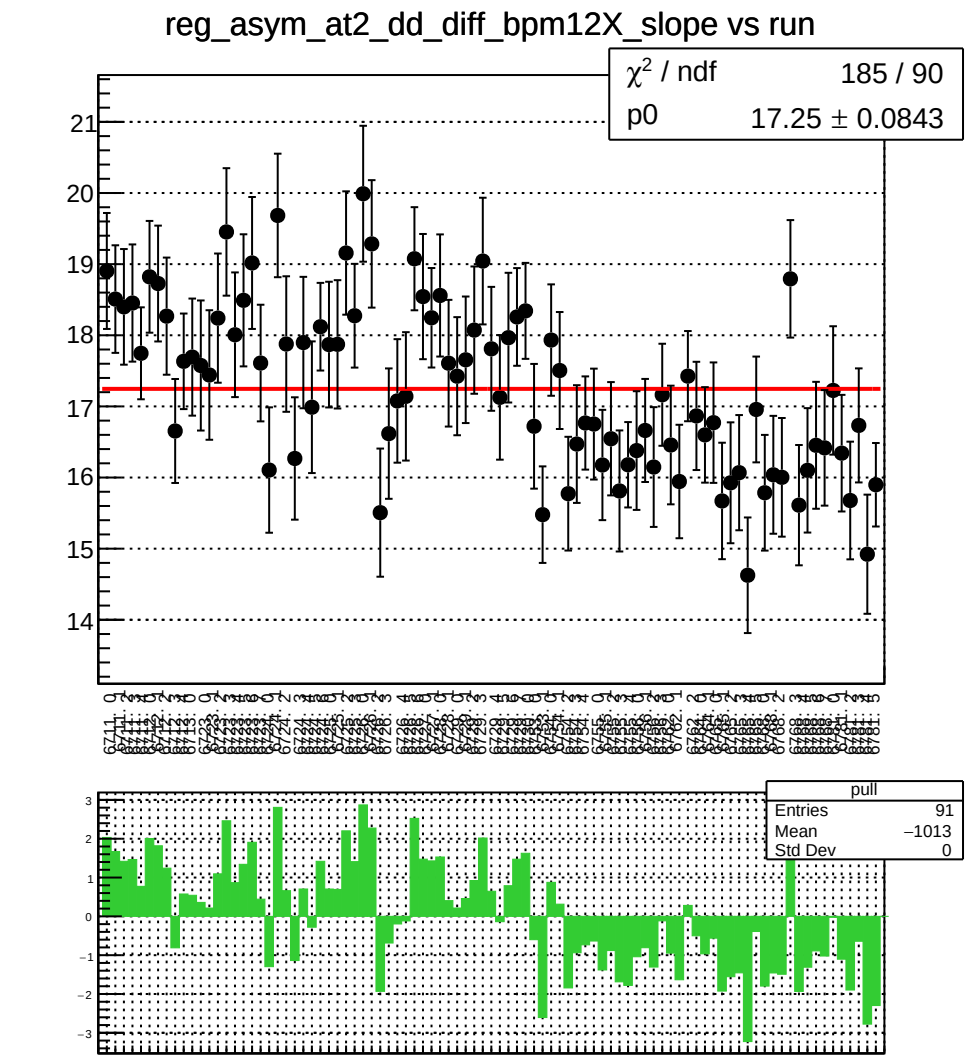

pull1D
Entries 91
Mean −0.00319
Std Dev 0.8717

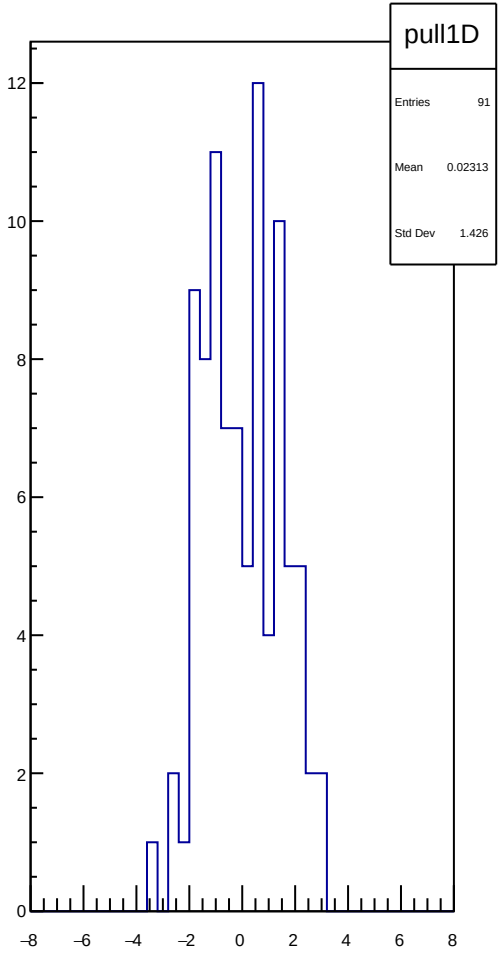

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 95.48 / 90
p0 47.07 ± 1.961
pull
Entries 91
Mean −1.24e+04
Std Dev 0

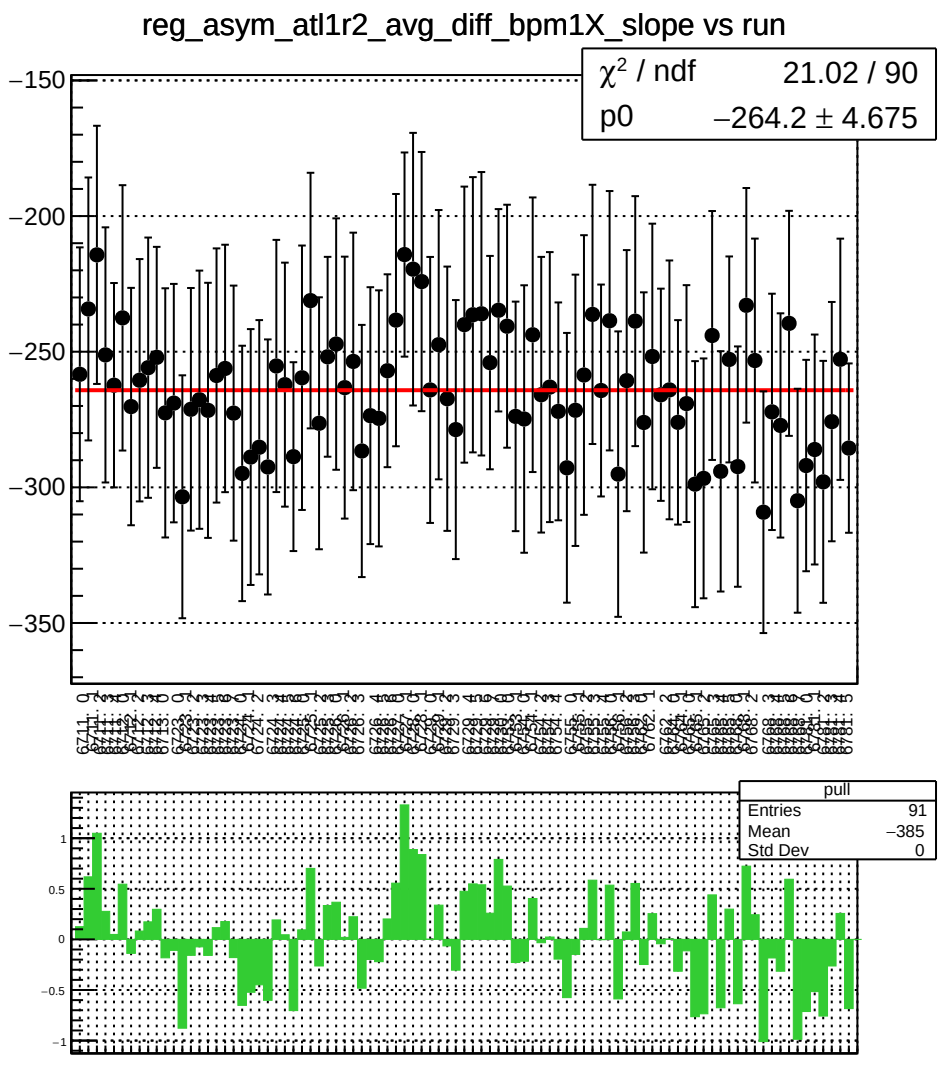

pull1D
Entries 91
Mean 0.0001391
Std Dev 1.024

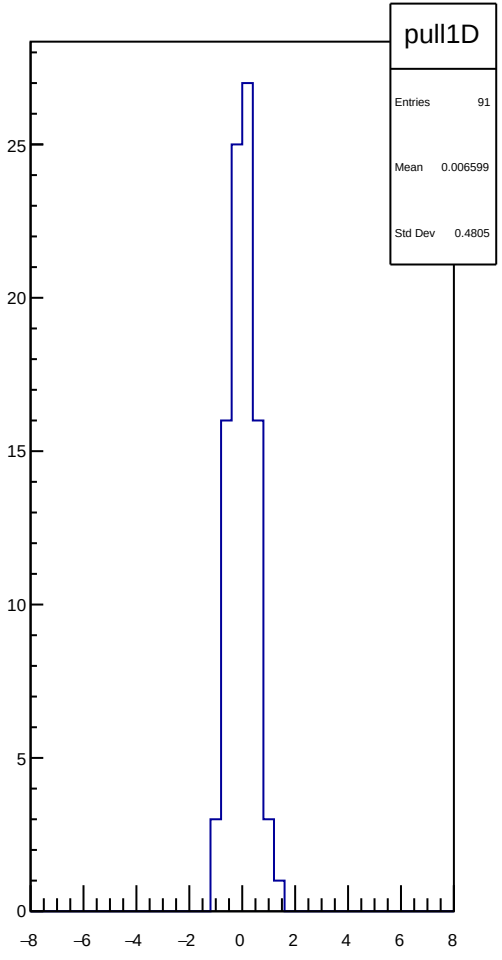

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 70.8 / 90
p0 −13.72 ± 1.465
pull
Entries 91
Mean −172.5
Std Dev 0

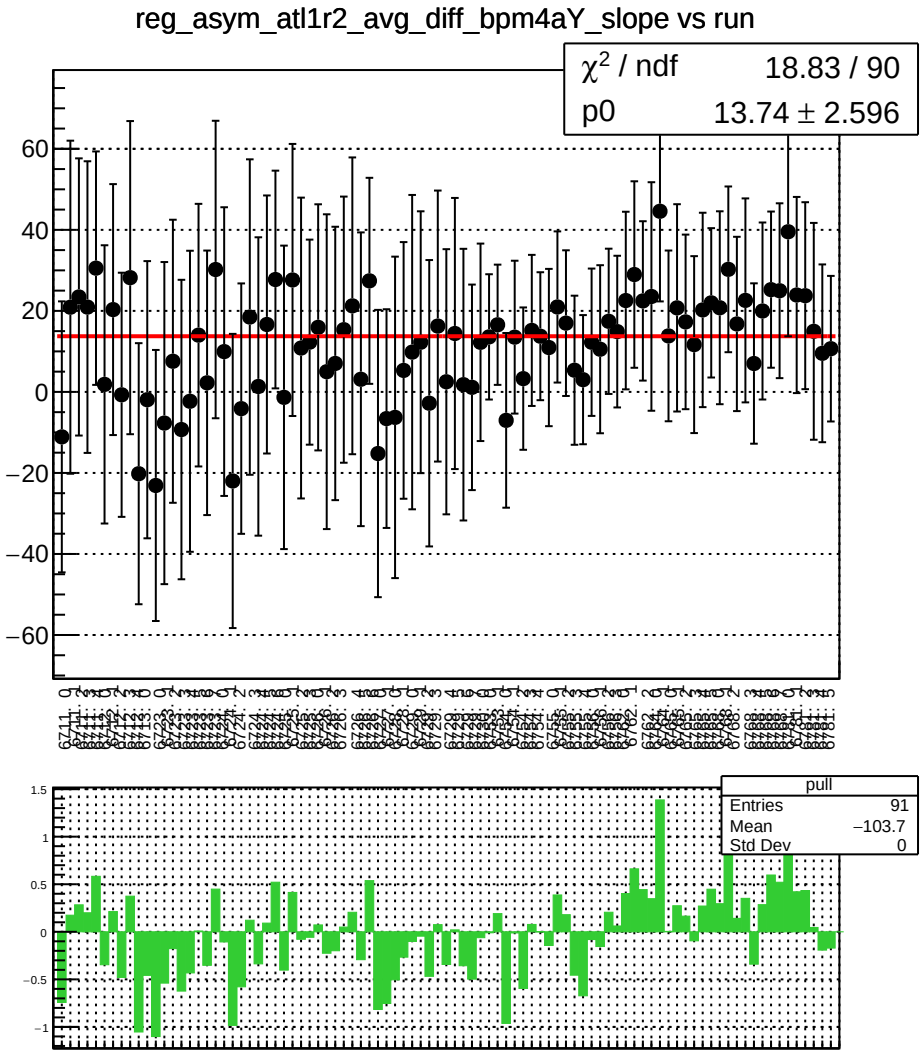

pull1D
Entries 91
Mean 0.01087
Std Dev 0.882

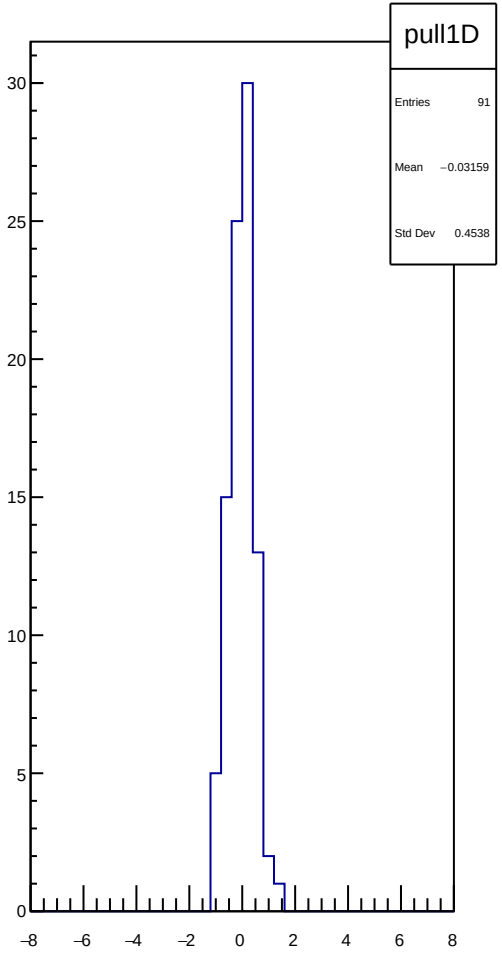

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 185 / 90
p0 17.25 ± 0.0843
pull
Entries 91
Mean −1013
Std Dev 0

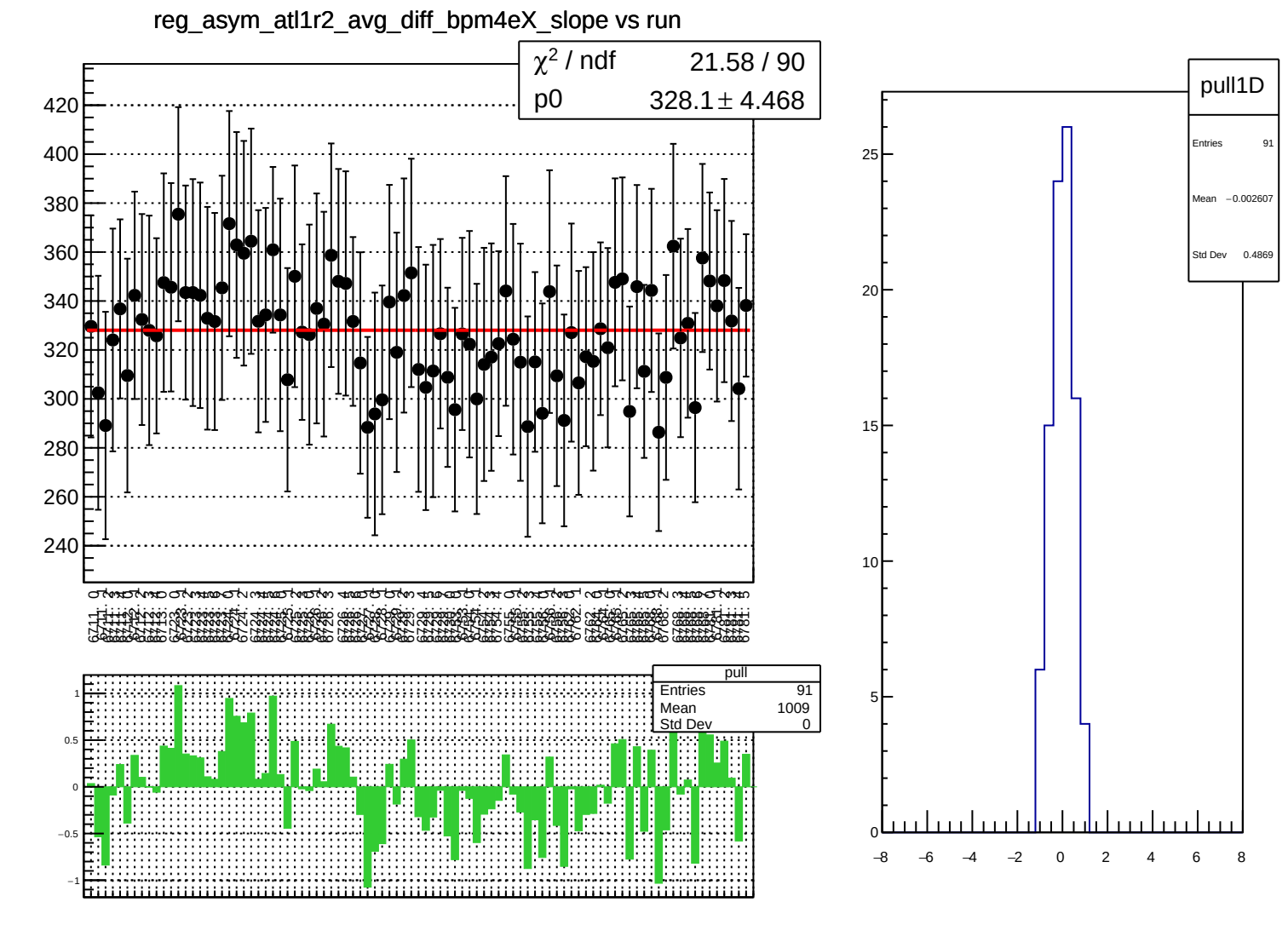

pull1D
Entries 91
Mean 0.02313
Std Dev 1.426

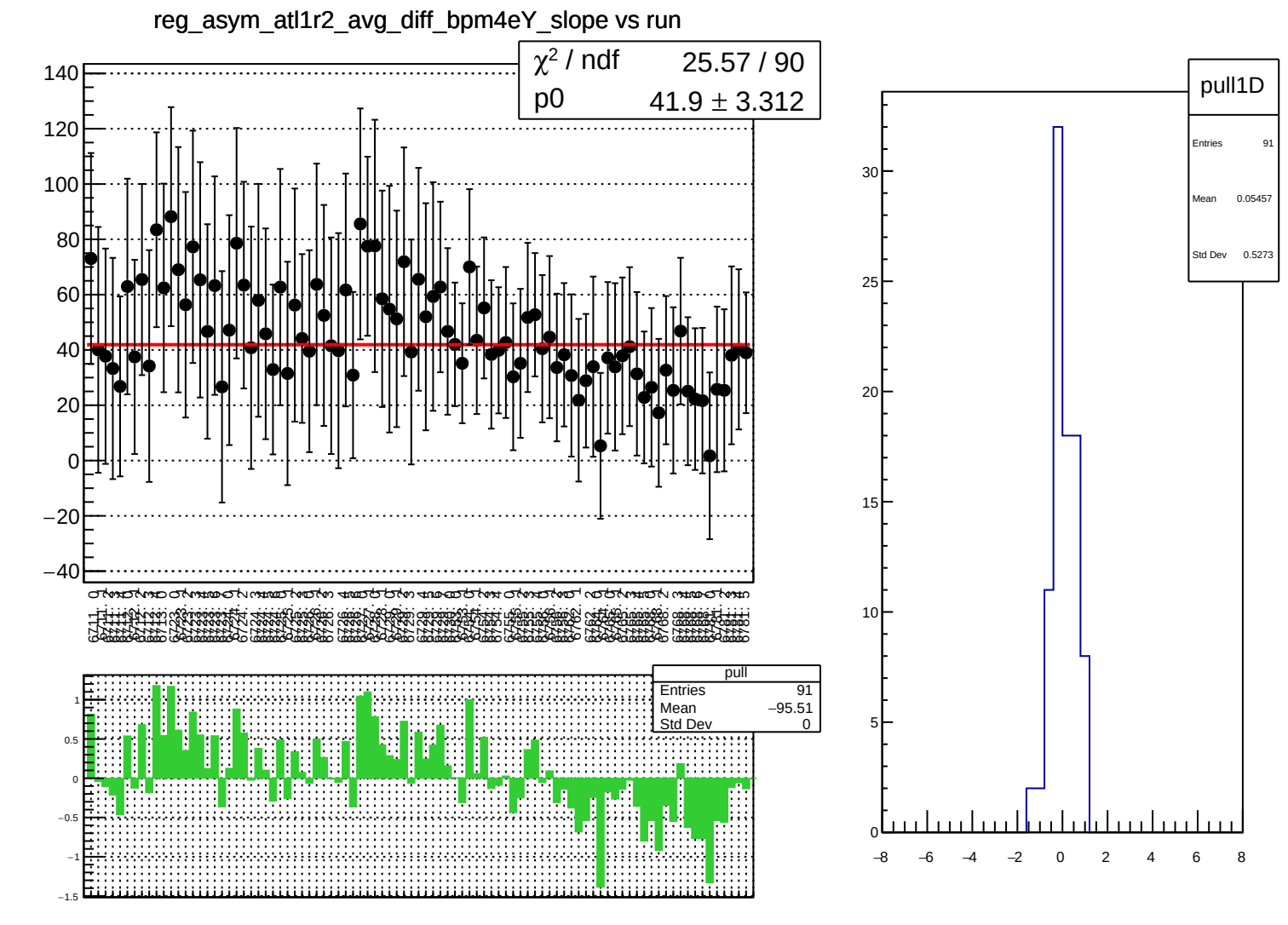

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 21.02 / 90
p0 −264.2 ± 4.675
−150
−200
−250
−300
−350
pull
Entries 91
Mean −385
Std Dev 0
1
0.5
0
−0.5
−1

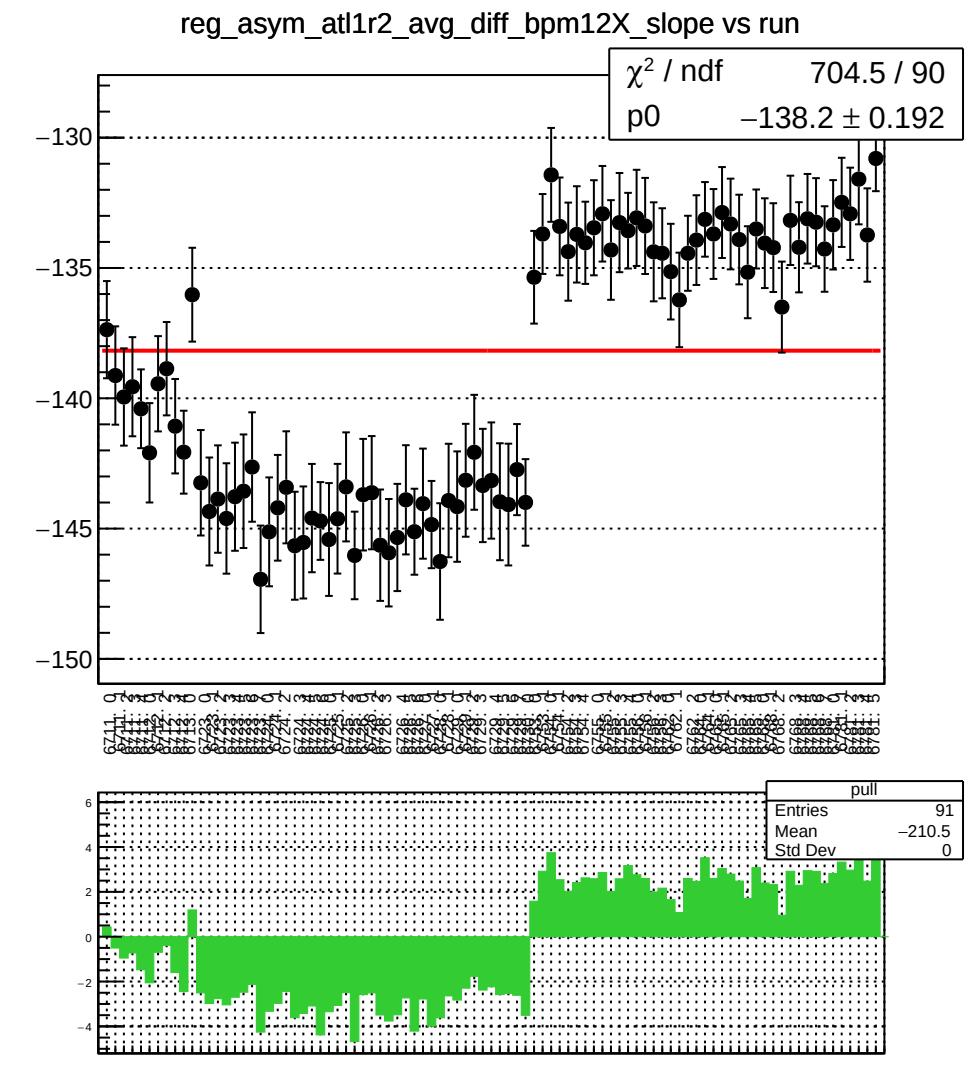

pull1D
Entries 91
Mean 0.006599
Std Dev 0.4805
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

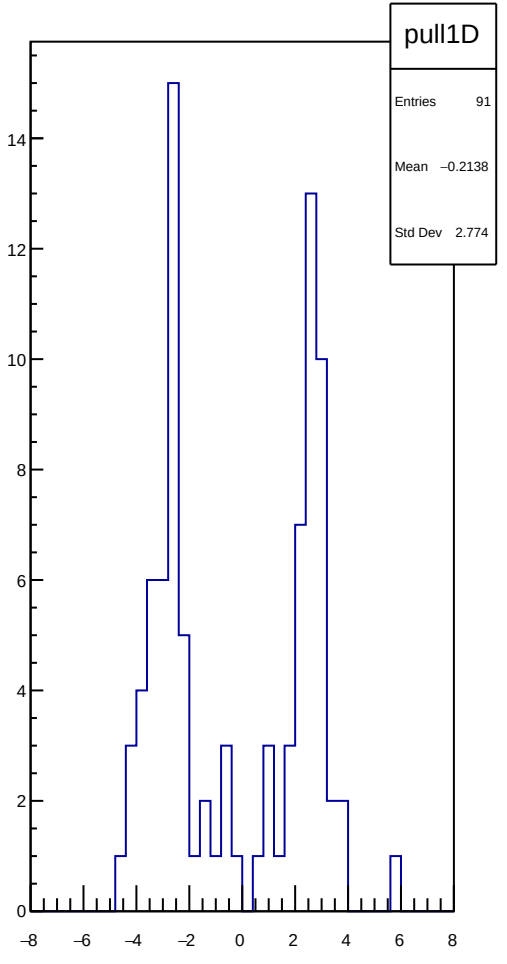

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.83 / 90
p0 13.74 ± 2.596
pull
Entries 91
Mean −103.7
Std Dev 0

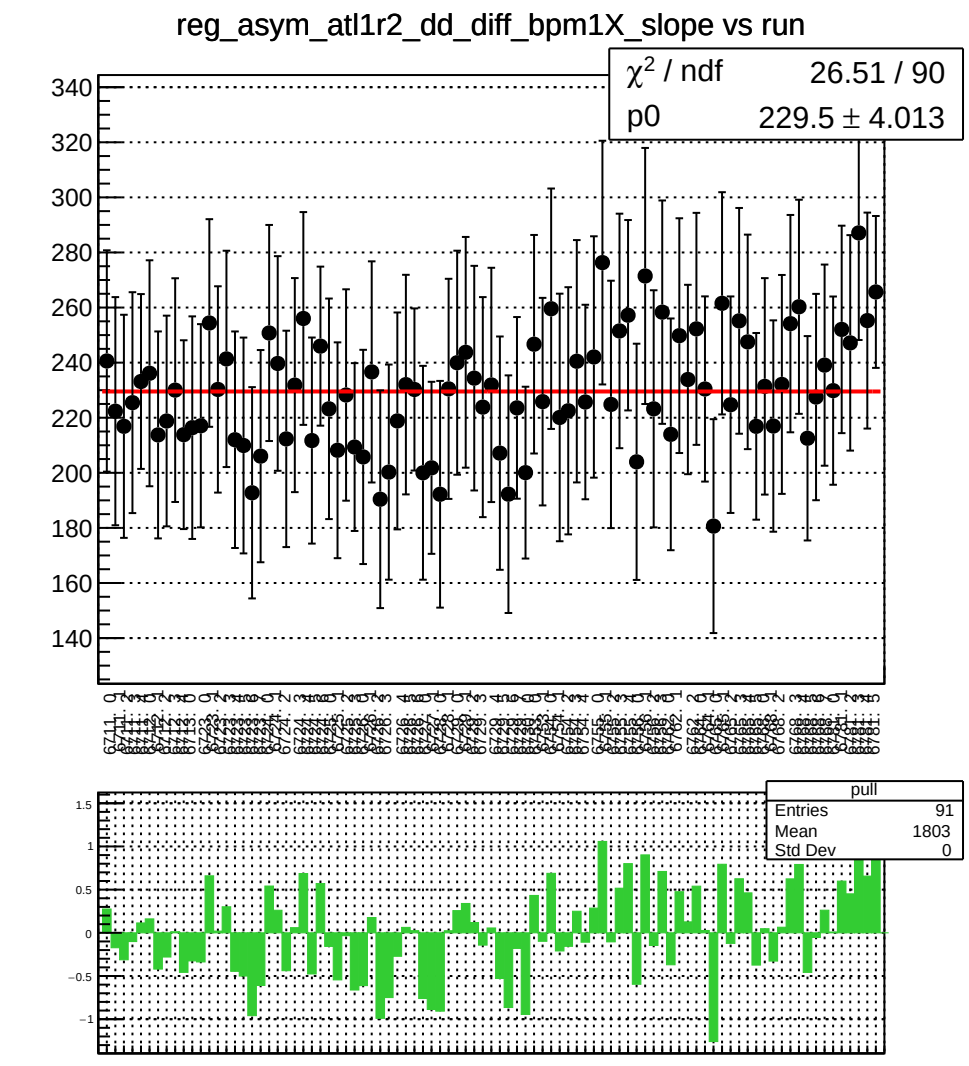

pull1D
Entries 91
Mean −0.03159
Std Dev 0.4538

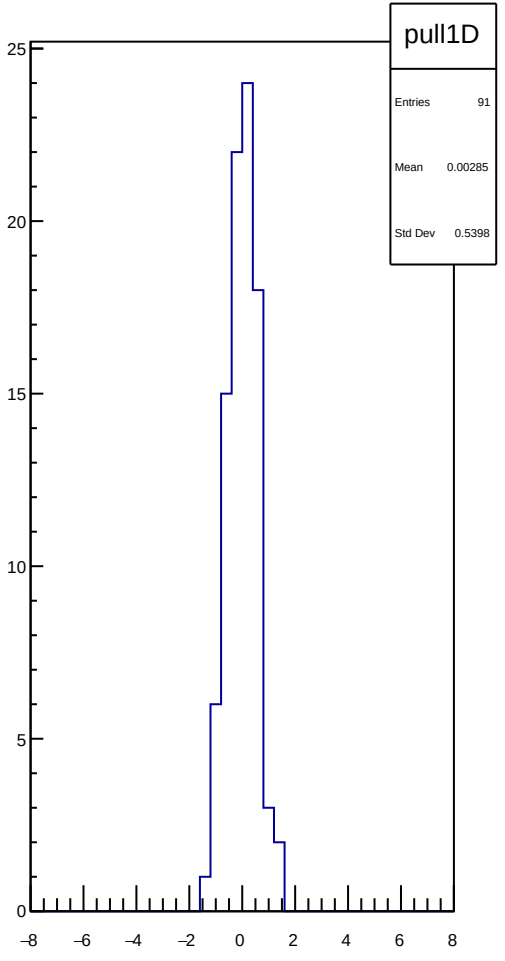

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.58 / 90
p0 328.1 ± 4.468
pull
Entries 91
Mean 1009
Std Dev 0
pull1D
Entries 91
Mean −0.002607
Std Dev 0.4869

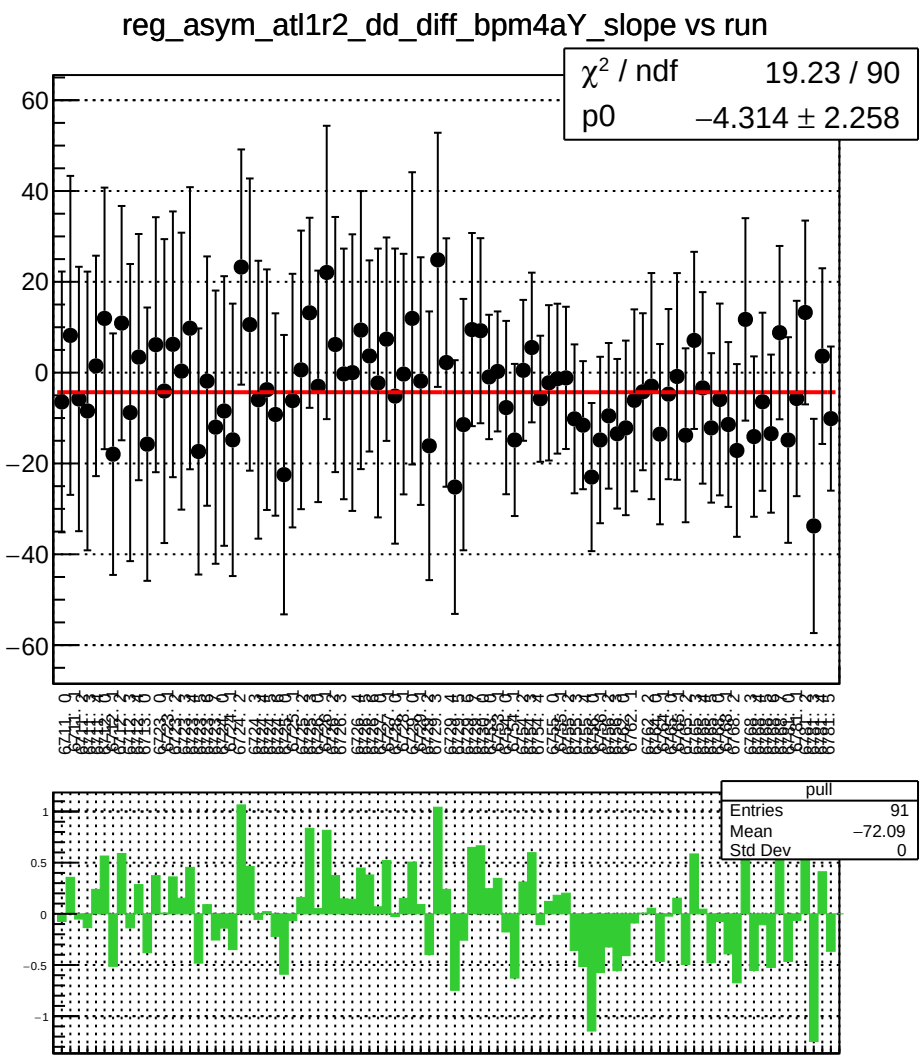

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.57 / 90
p0 41.9 ± 3.312
pull
Entries 91
Mean −95.51
Std Dev 0
pull1D
Entries 91
Mean 0.05457
Std Dev 0.5273

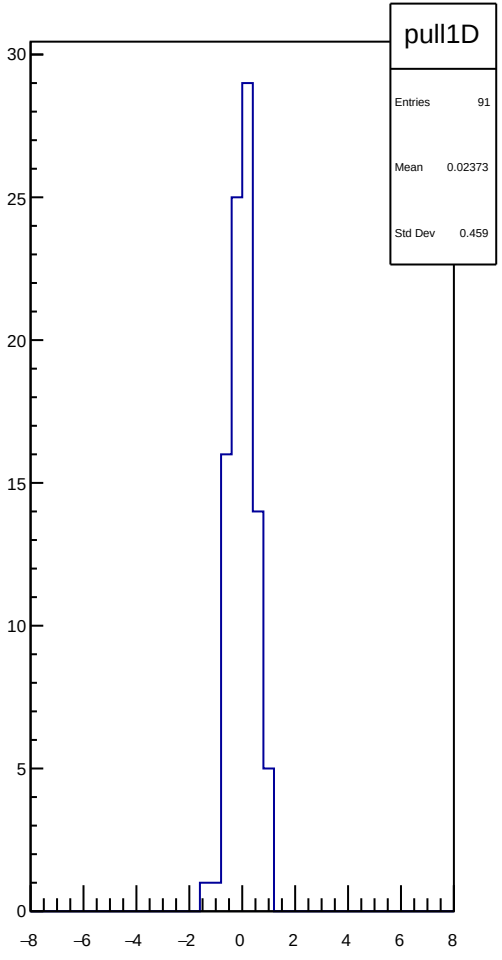

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 704.5 / 90
p0 −138.2 ± 0.192
−130
−135
−140
−145
−150
pull
Entries 91
Mean −210.5
Std Dev 0
6
4
2
0
−2
−4

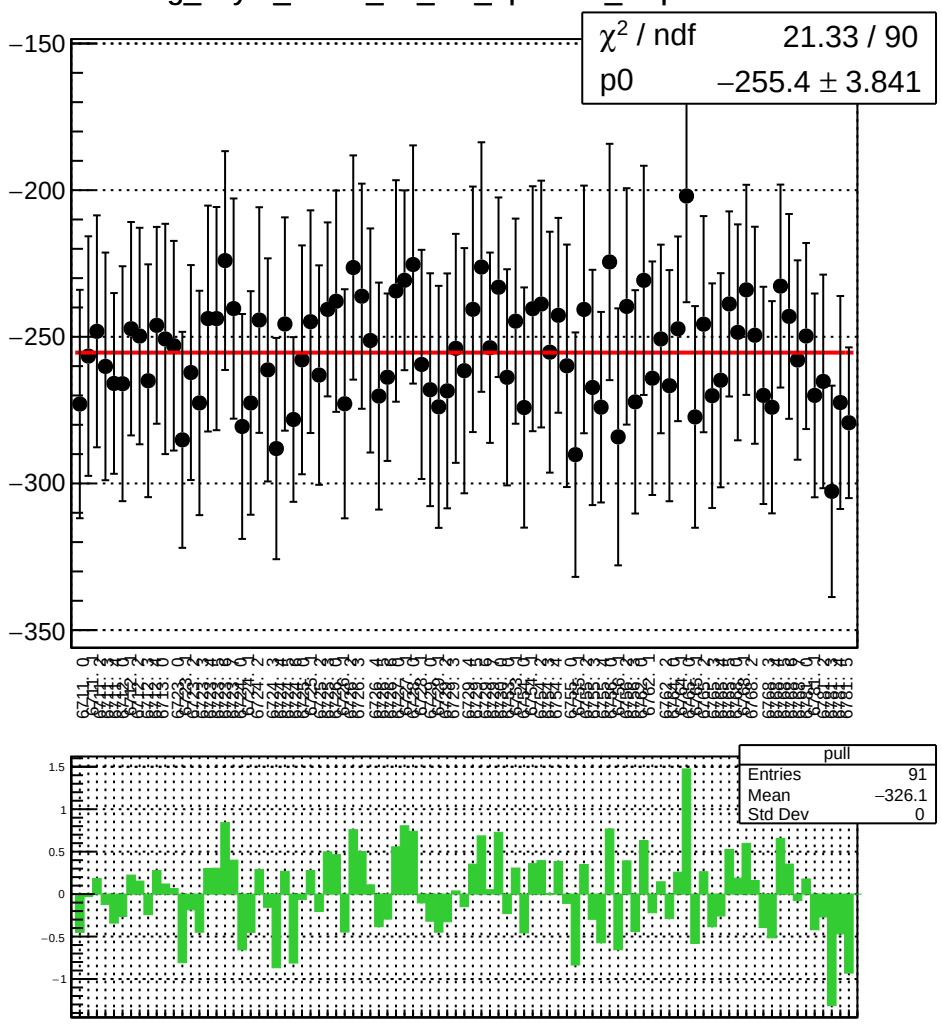

pull1D
Entries 91
Mean −0.2138
Std Dev 2.774
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

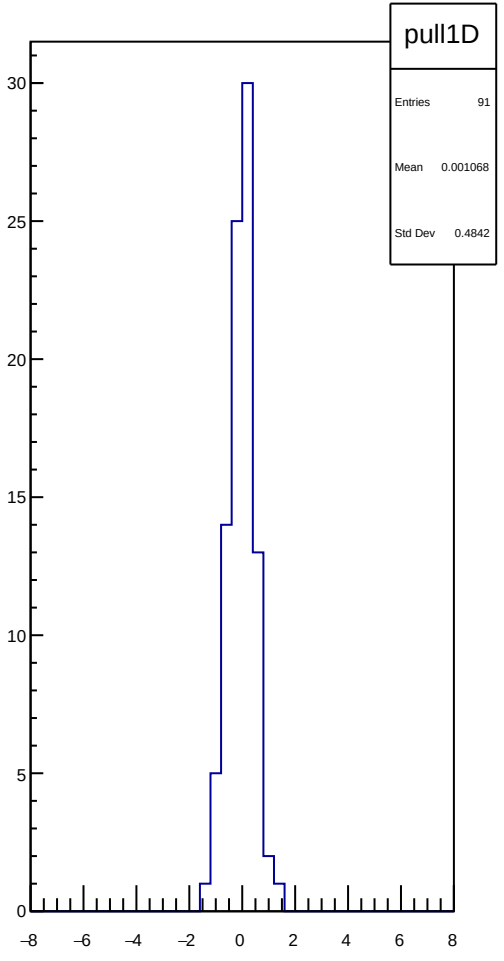

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 26.51 / 90
p0 229.5 ± 4.013
pull
Entries 91
Mean 1803
Std Dev 0

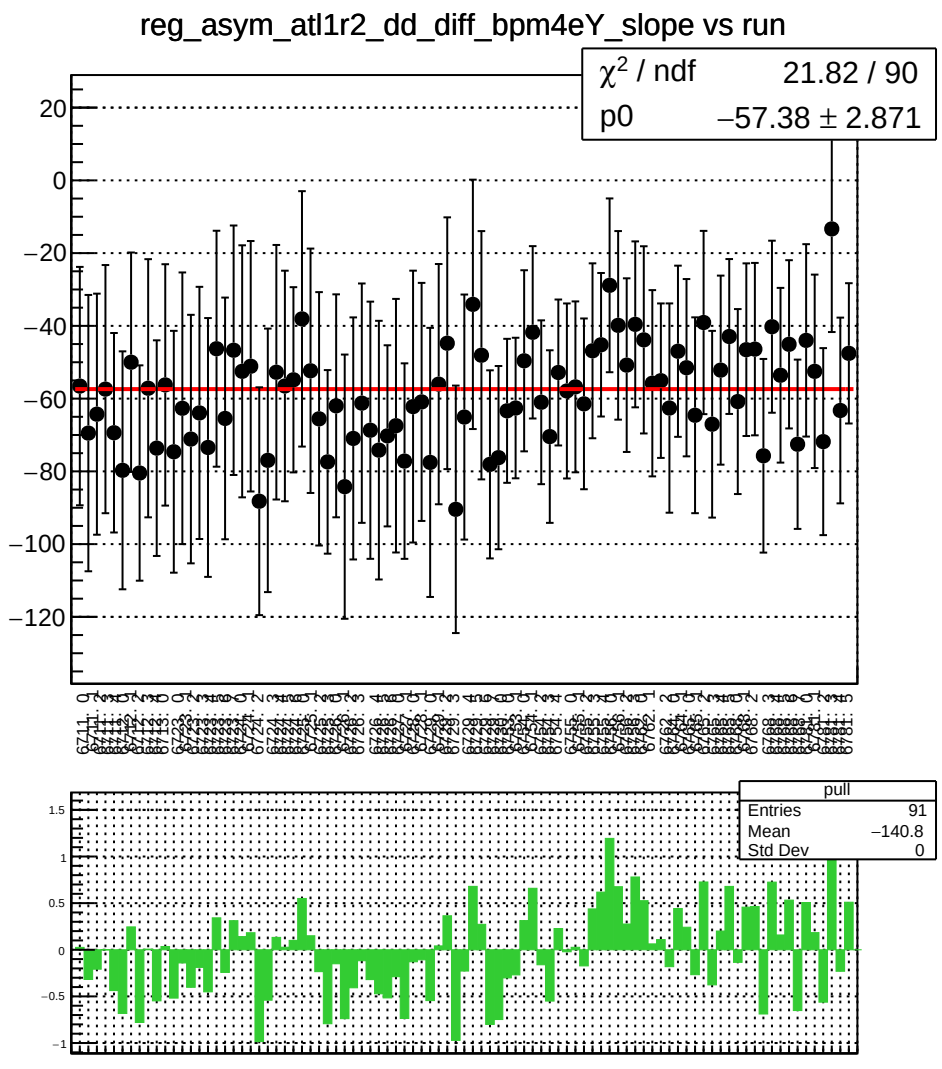

pull1D
Entries 91
Mean 0.00285
Std Dev 0.5398

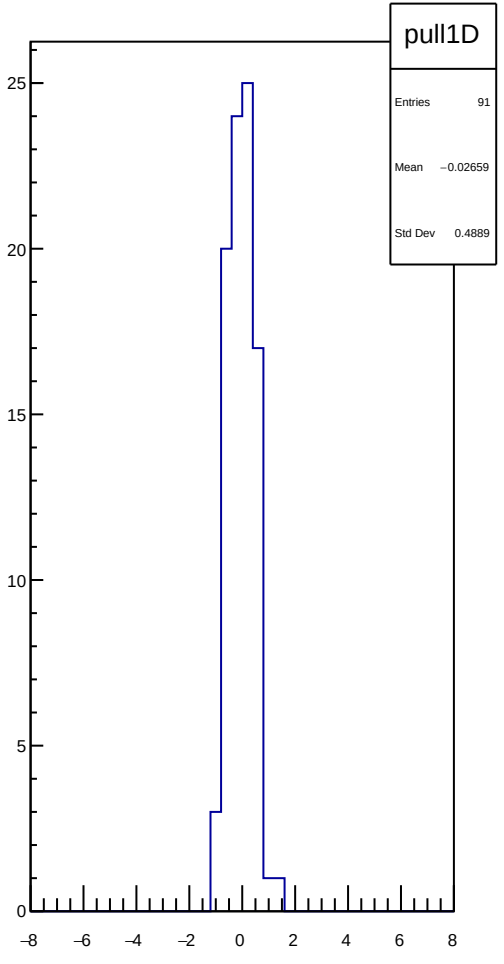

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.23 / 90
p0 −4.314 ± 2.258
pull
Entries 91
Mean −72.09
Std Dev 0

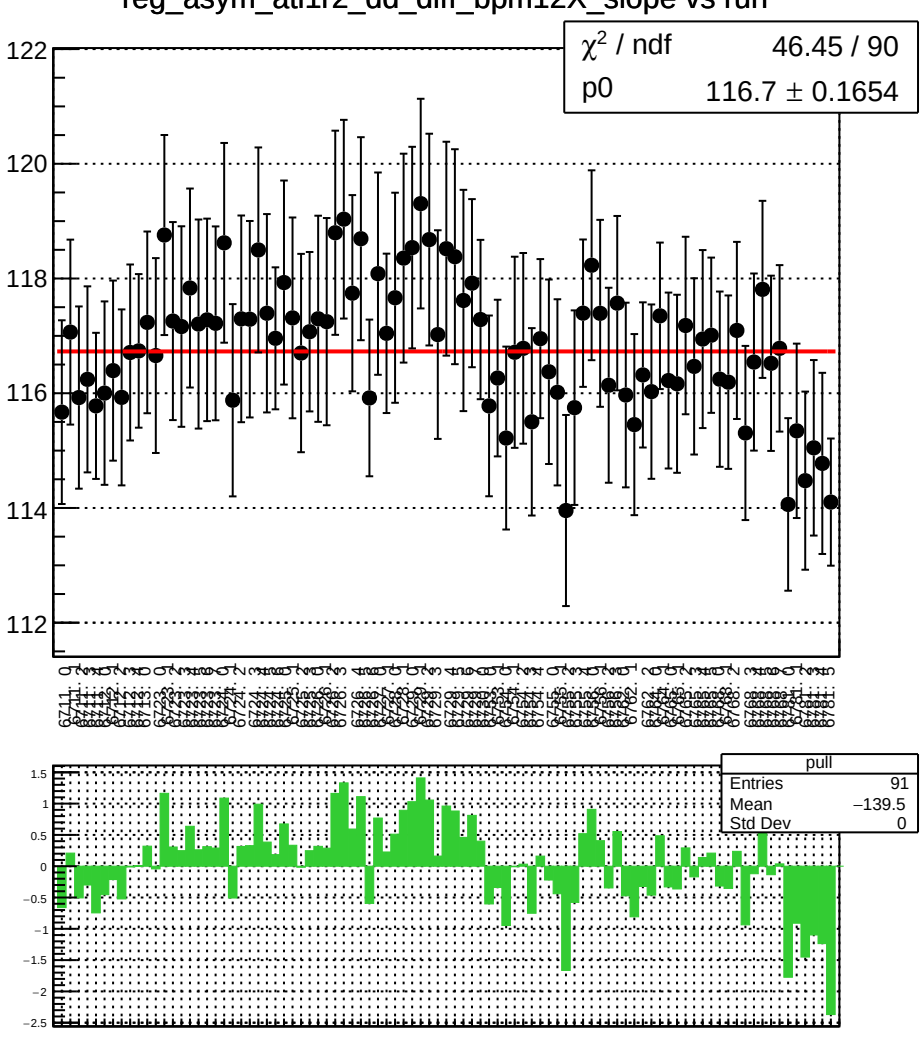

pull1D
Entries 91
Mean 0.02373
Std Dev 0.459

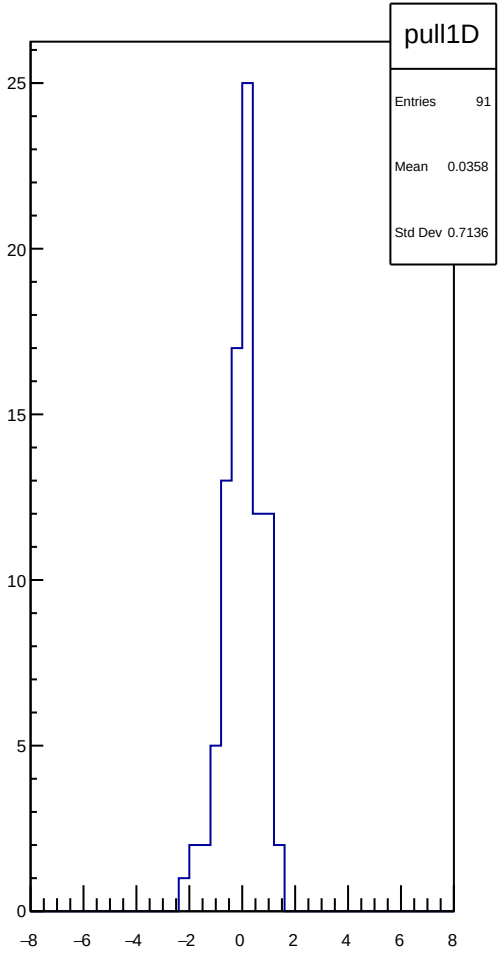

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.33 / 90
p0 −255.4 ± 3.841
−150
−200
−250
−300
−350
pull
Entries 91
Mean −326.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1

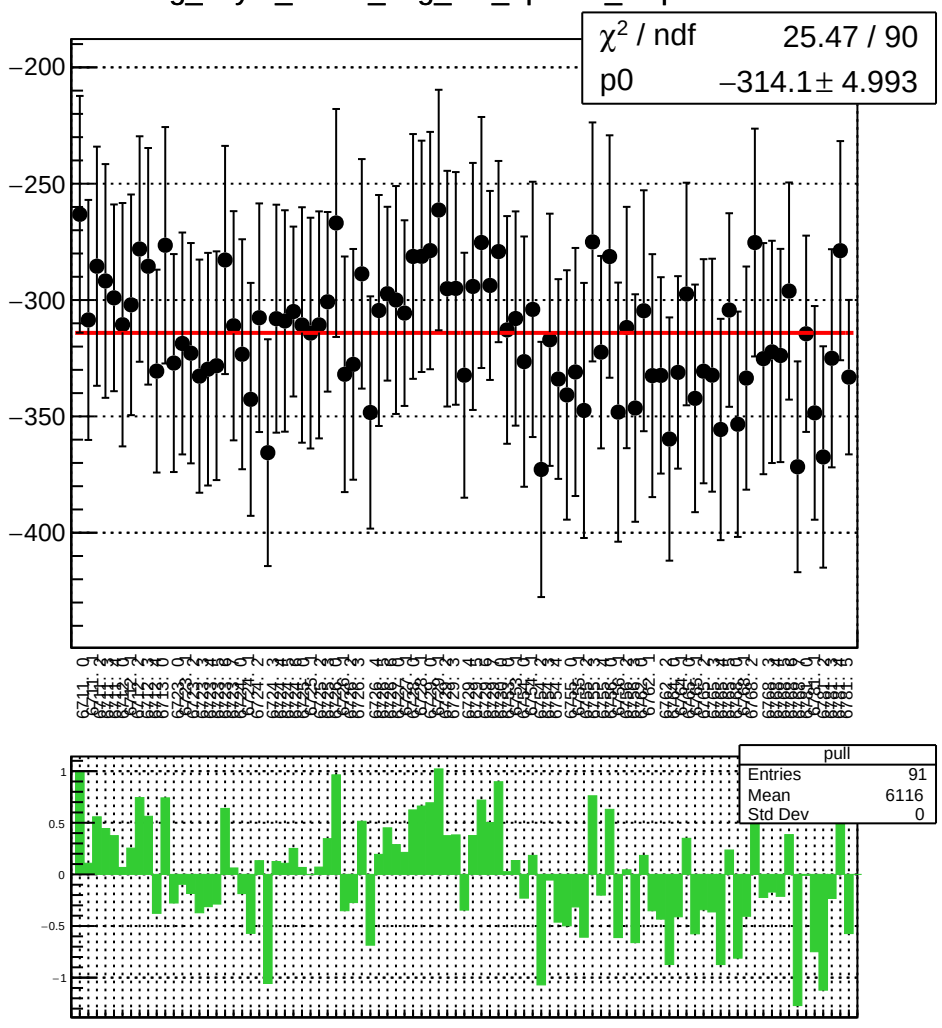

pull1D
Entries 91
Mean 0.001068
Std Dev 0.4842
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

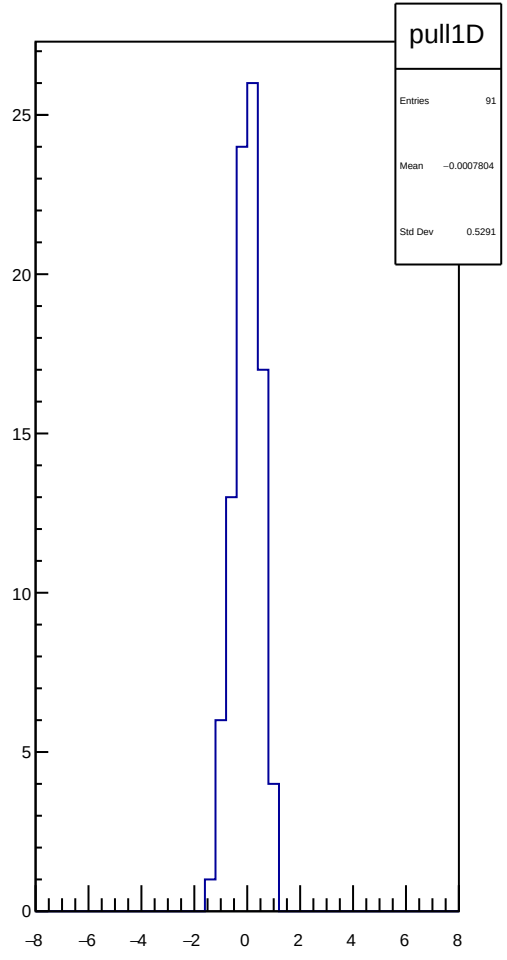

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.82 / 90
p0 −57.38 ± 2.871
pull
Entries 91
Mean −140.8
Std Dev 0

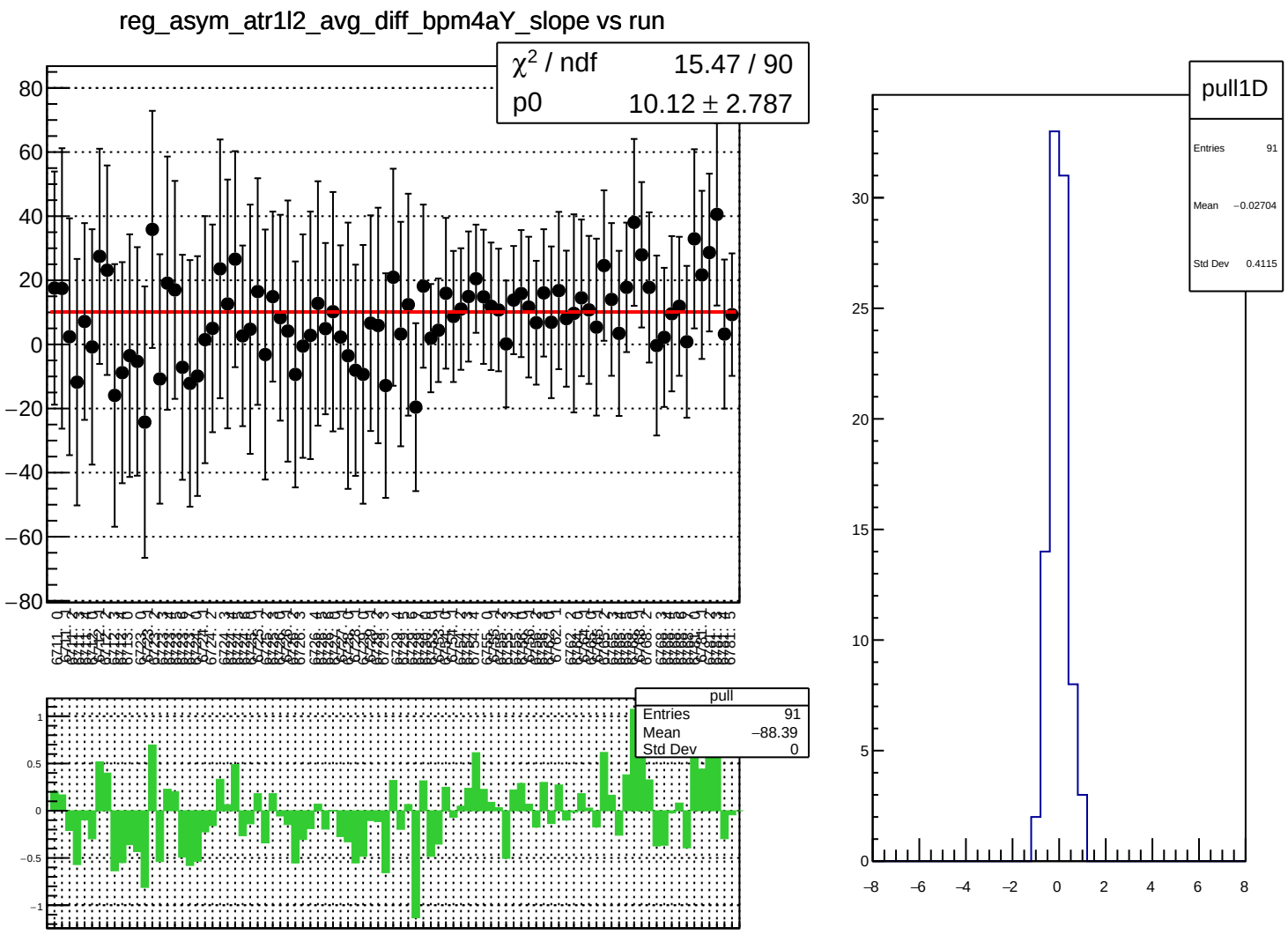

pull1D
Entries 91
Mean −0.02659
Std Dev 0.4889

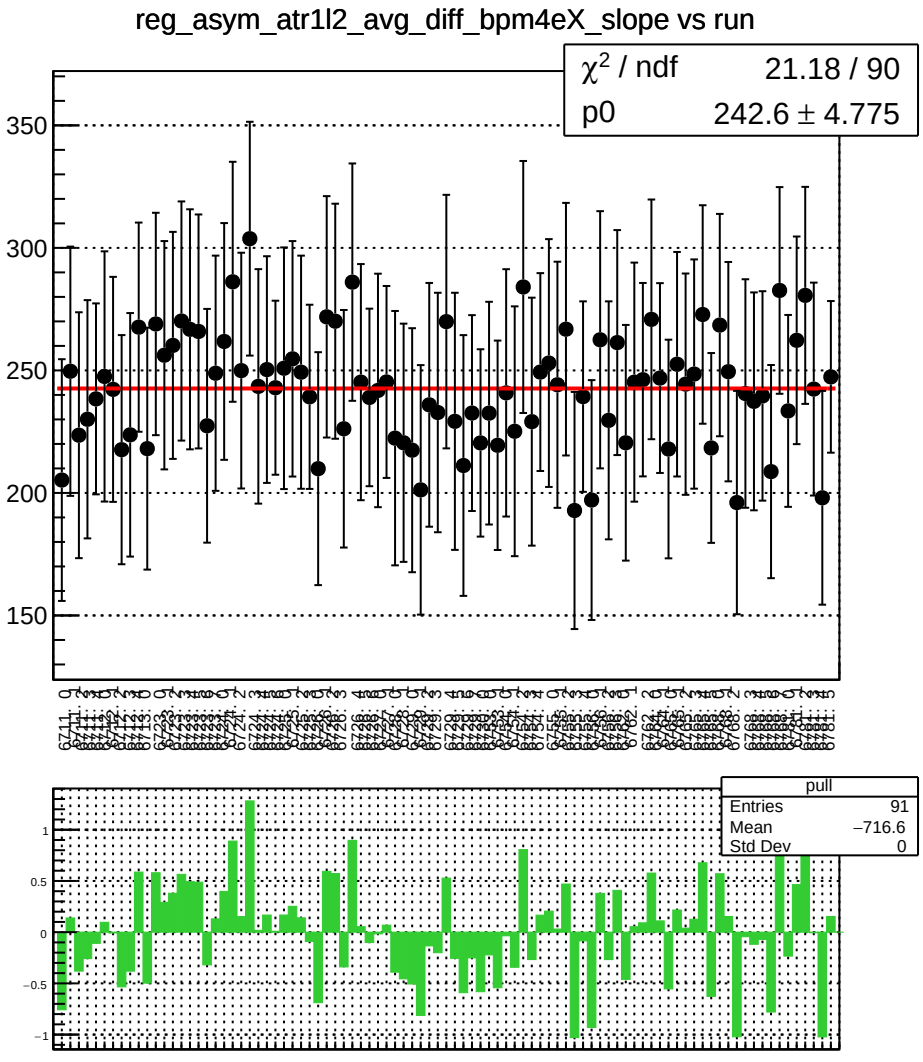

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 46.45 / 90
p0 116.7 ± 0.1654
pull
Entries 91
Mean −139.5
Std Dev 0

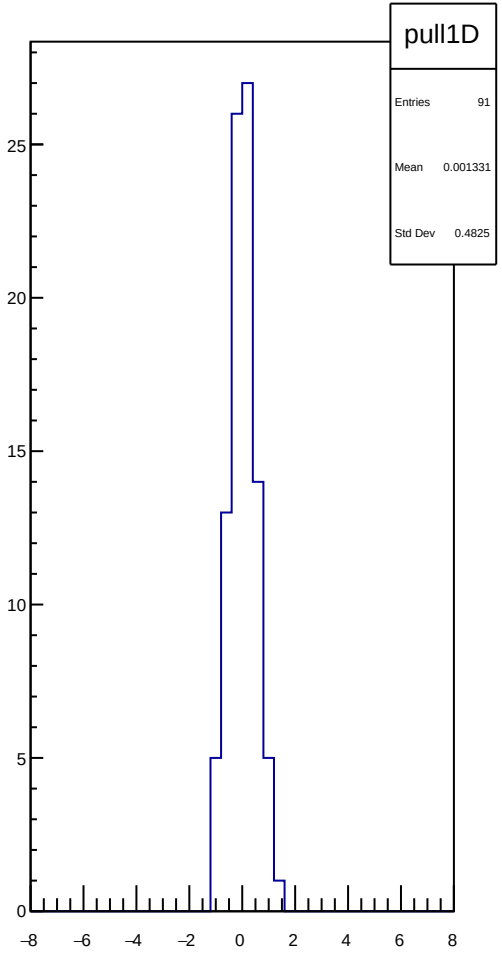

pull1D
Entries 91
Mean 0.0358
Std Dev 0.7136

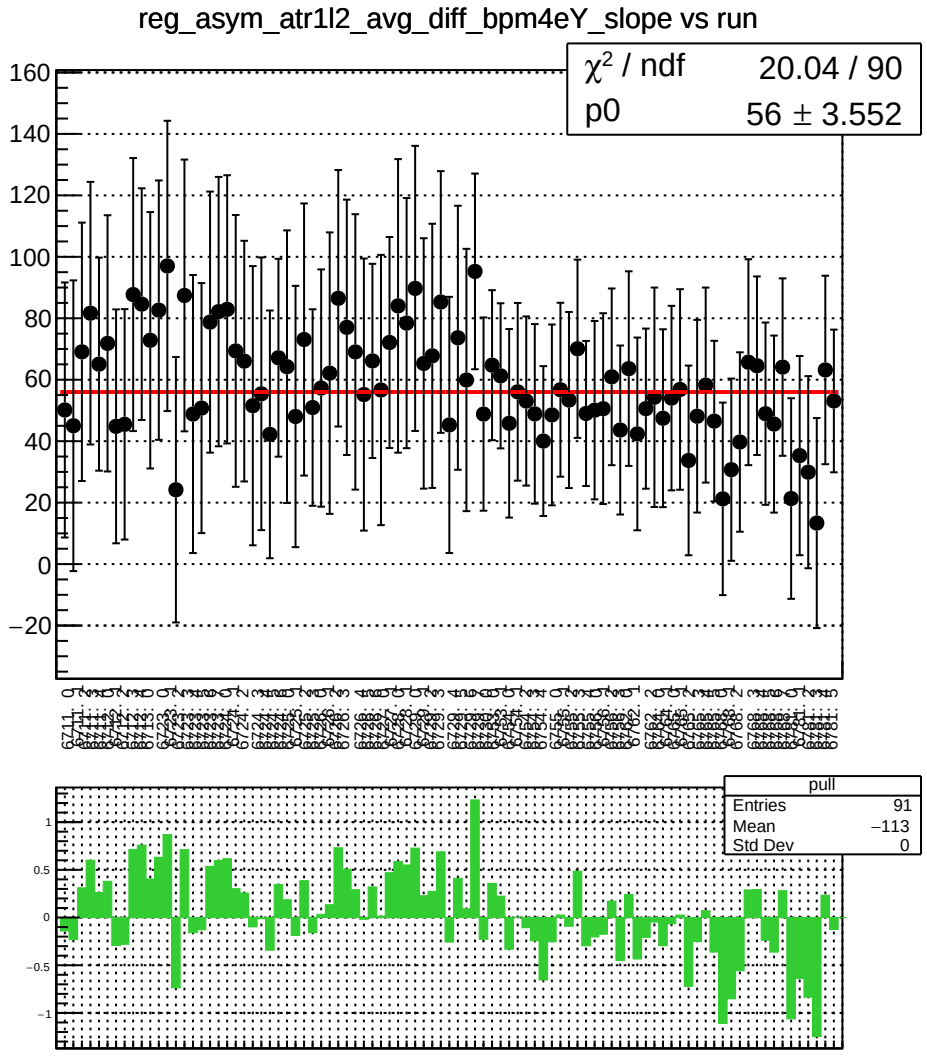

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 25.47 / 90
p0 −314.1 ± 4.993
−200
−250
−300
−350
−400
pull
Entries 91
Mean 6116
Std Dev 0
1
0.5
0
−0.5
−1

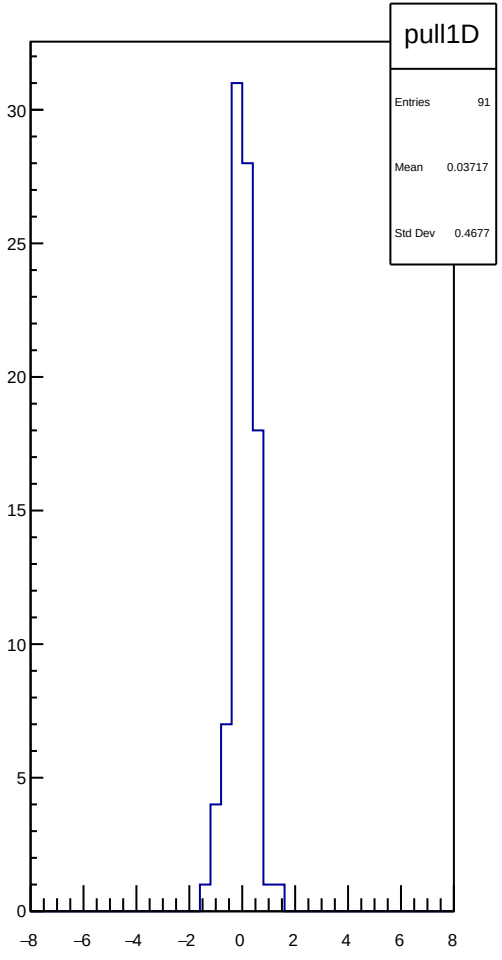

pull1D
Entries 91
Mean −0.0007804
Std Dev 0.5291
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

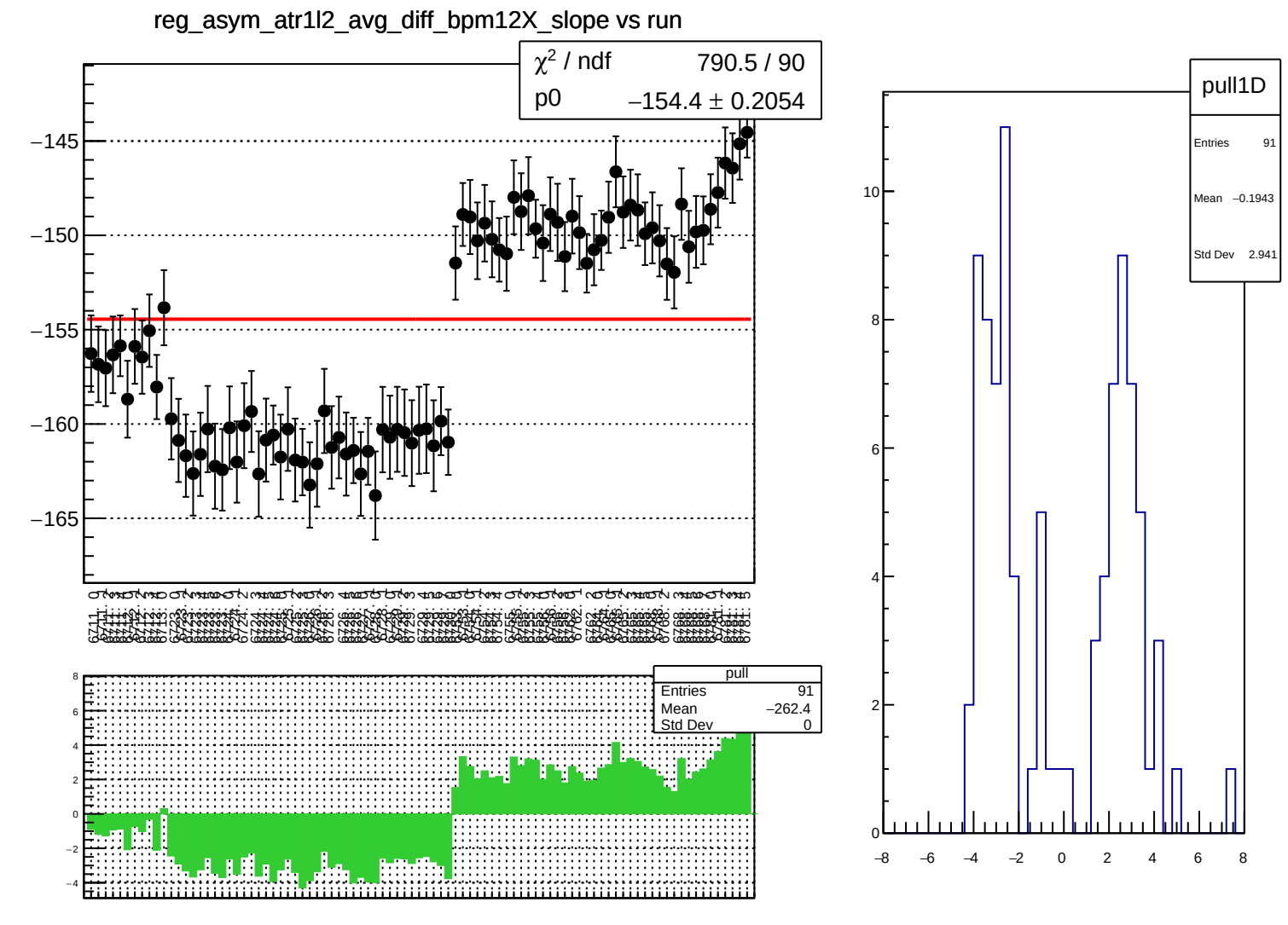

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.47 / 90
p0 10.12 ± 2.787
pull
Entries 91
Mean −88.39
Std Dev 0
pull1D
Entries 91
Mean −0.02704
Std Dev 0.4115

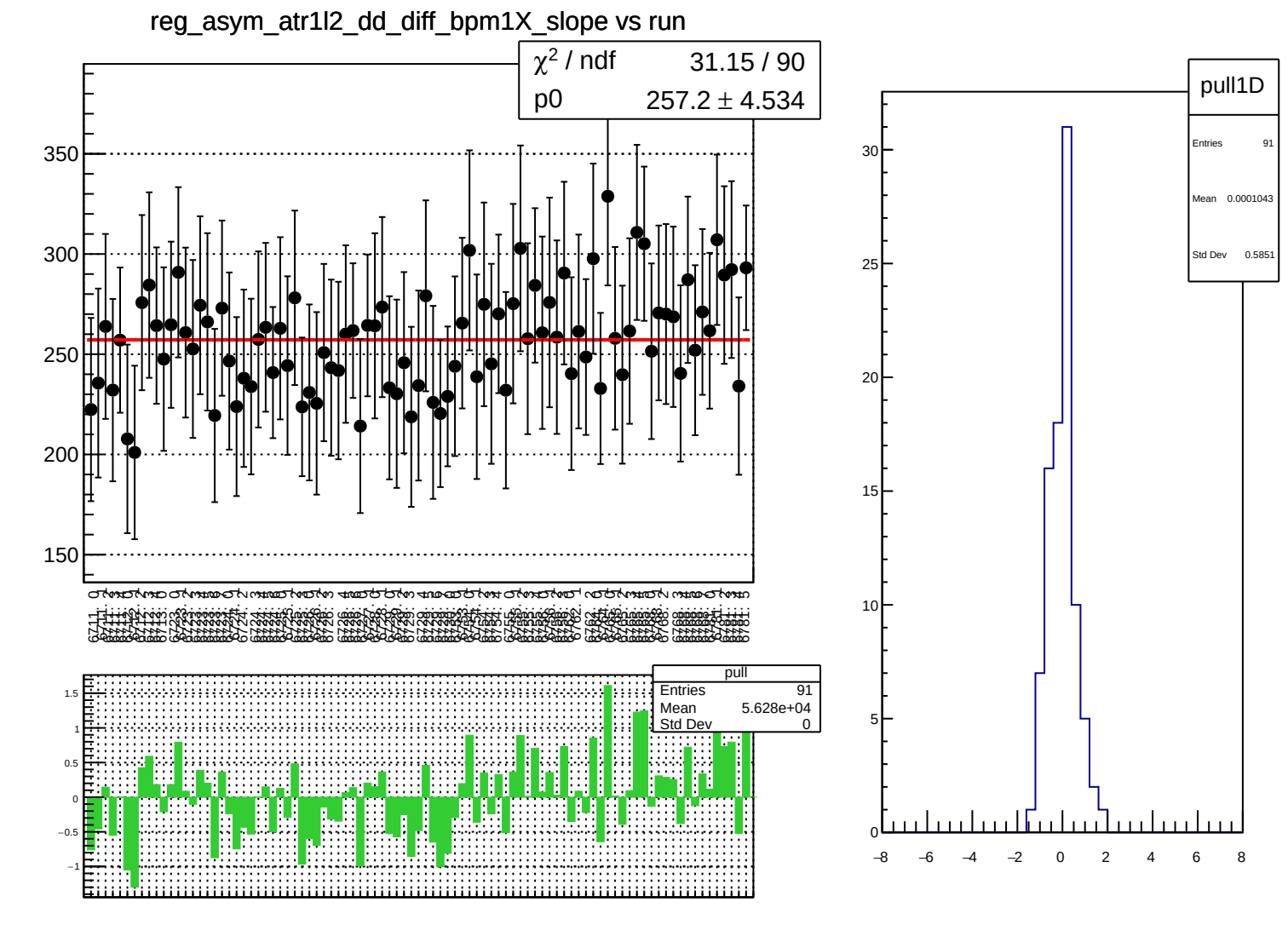

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.18 / 90
p0 242.6 ± 4.775
350
300
250
200
150
pull
Entries 91
Mean −716.6
Std Dev 0
1
0.5
0
−0.5
−1

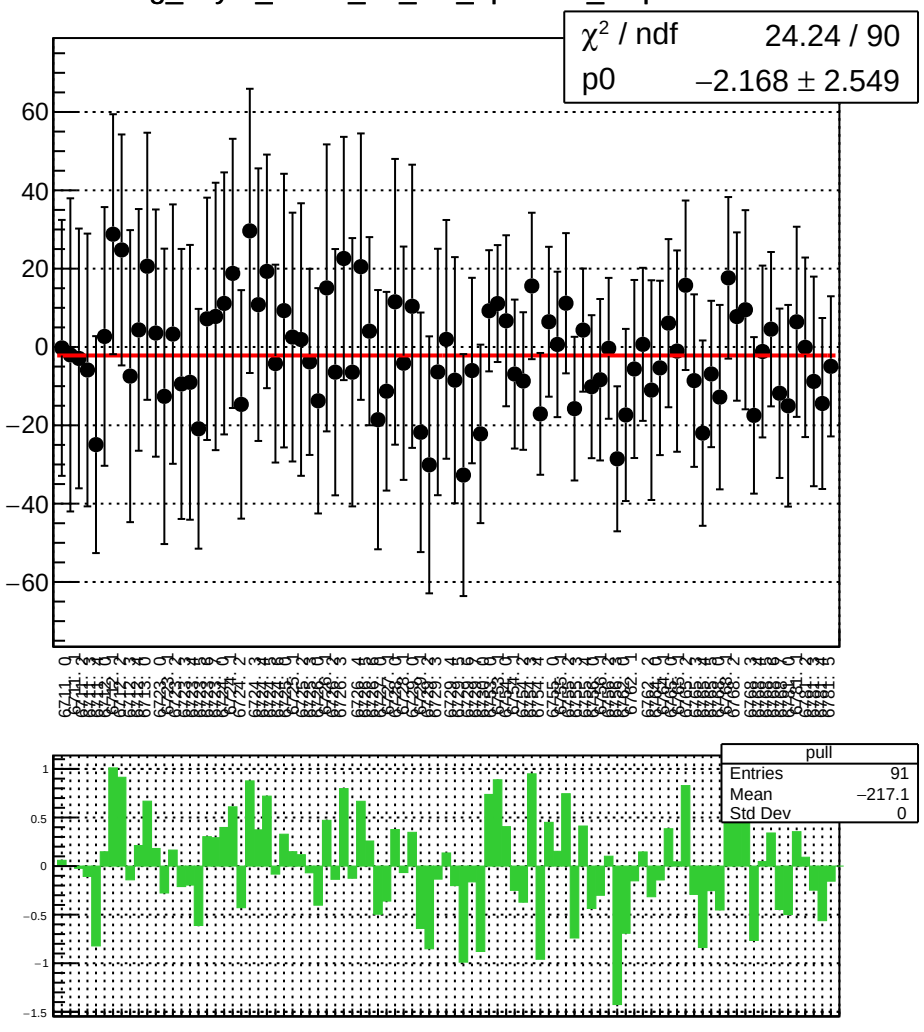

pull1D
Entries 91
Mean 0.001331
Std Dev 0.4825
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

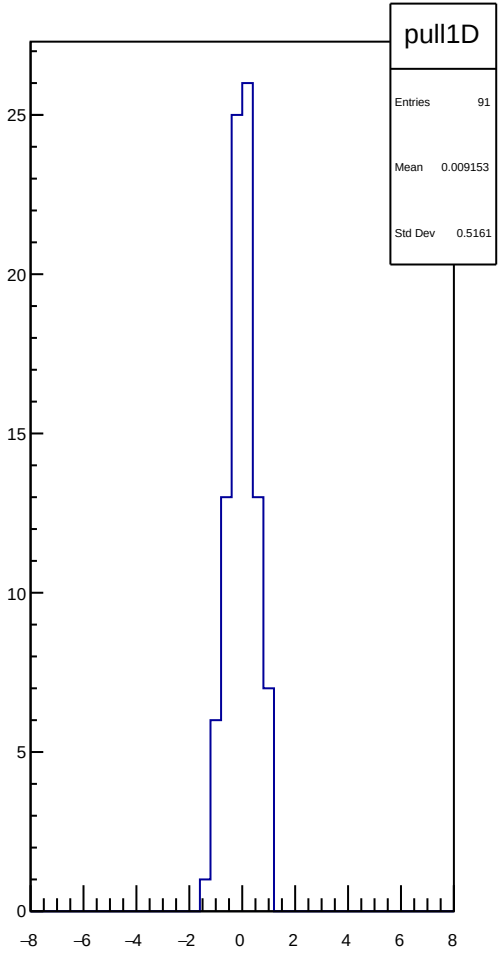

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.04 / 90
p0 56 ± 3.552
pull
Entries 91
Mean −113
Std Dev 0

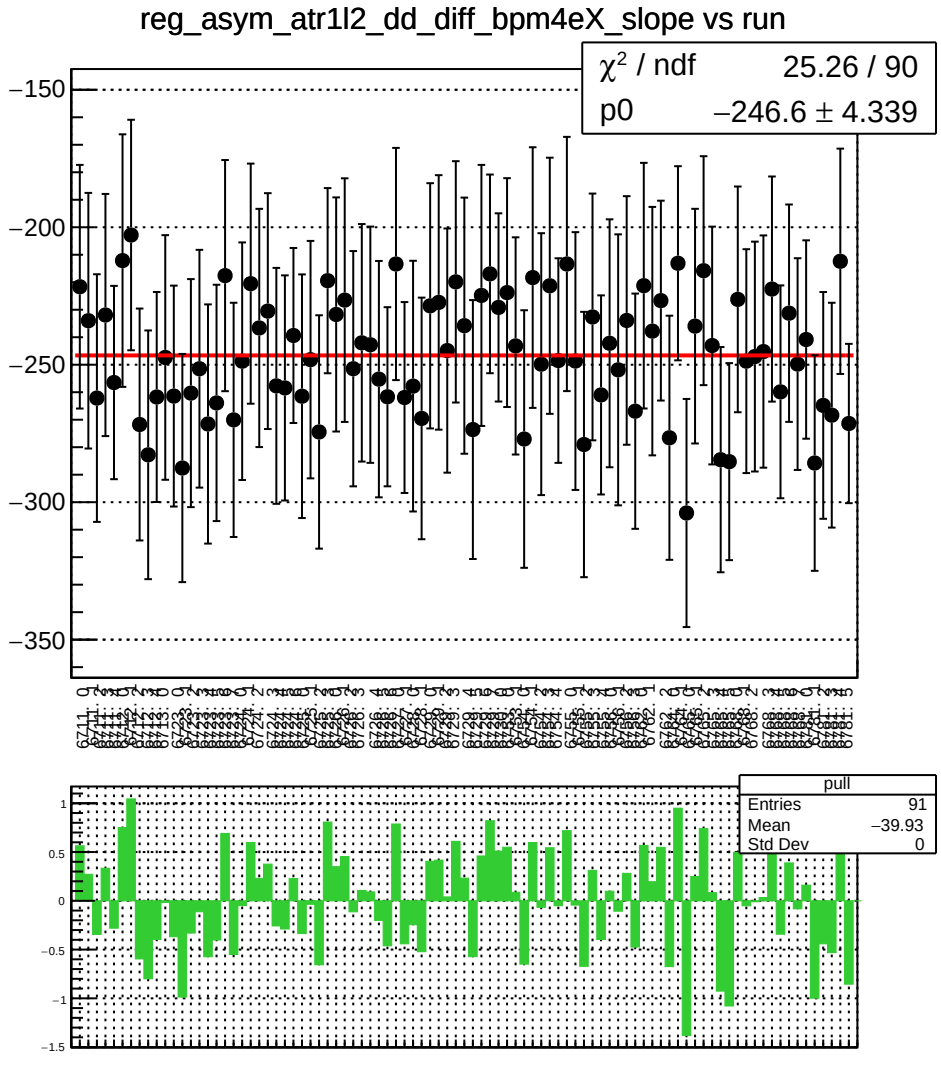

pull1D
Entries 91
Mean 0.03717
Std Dev 0.4677

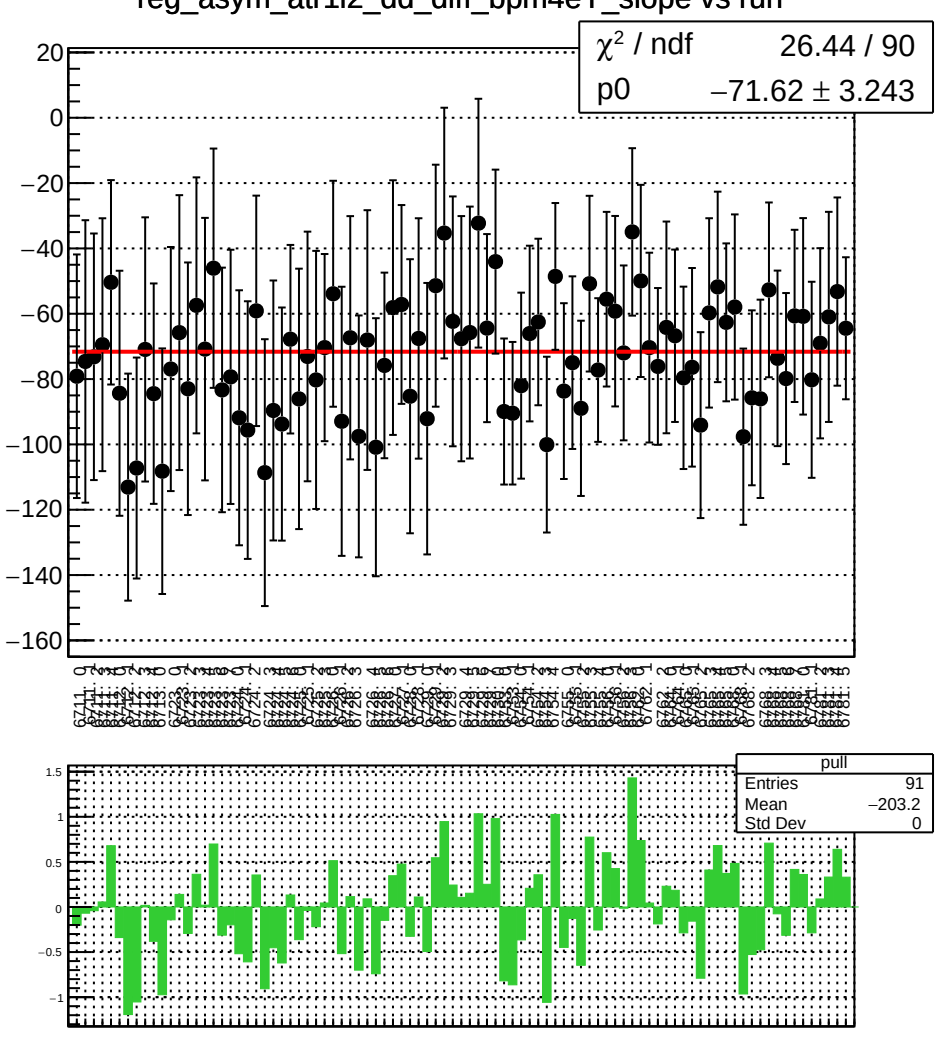

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 790.5 / 90
p0 −154.4 ± 0.2054
−145
−150
−155
−160
−165
pull
Entries 91
Mean −262.4
Std Dev 0
pull1D
Entries 91
Mean −0.1943
Std Dev 2.941

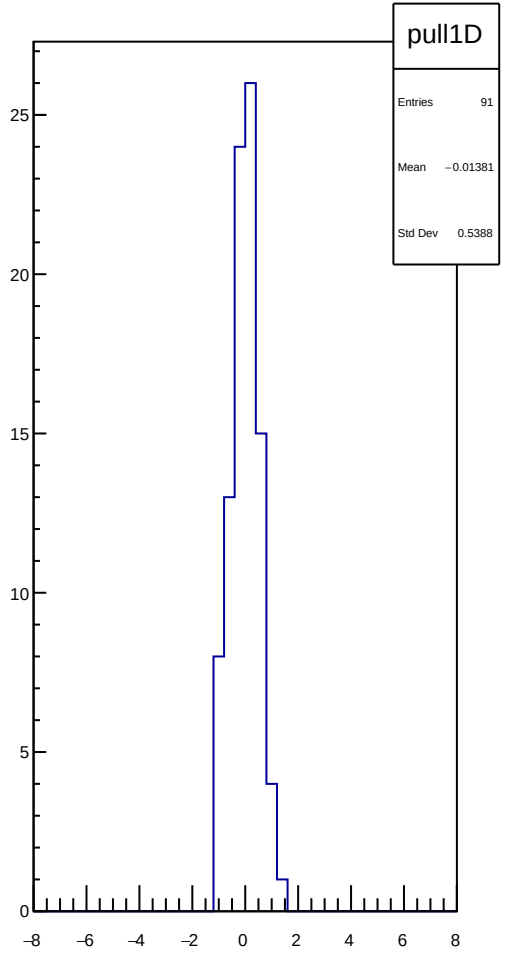

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 31.15 / 90
p0 257.2 ± 4.534
350
300
250
200
150
pull
Entries 91
Mean 5.628e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 91
Mean 0.0001043
Std Dev 0.5851
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

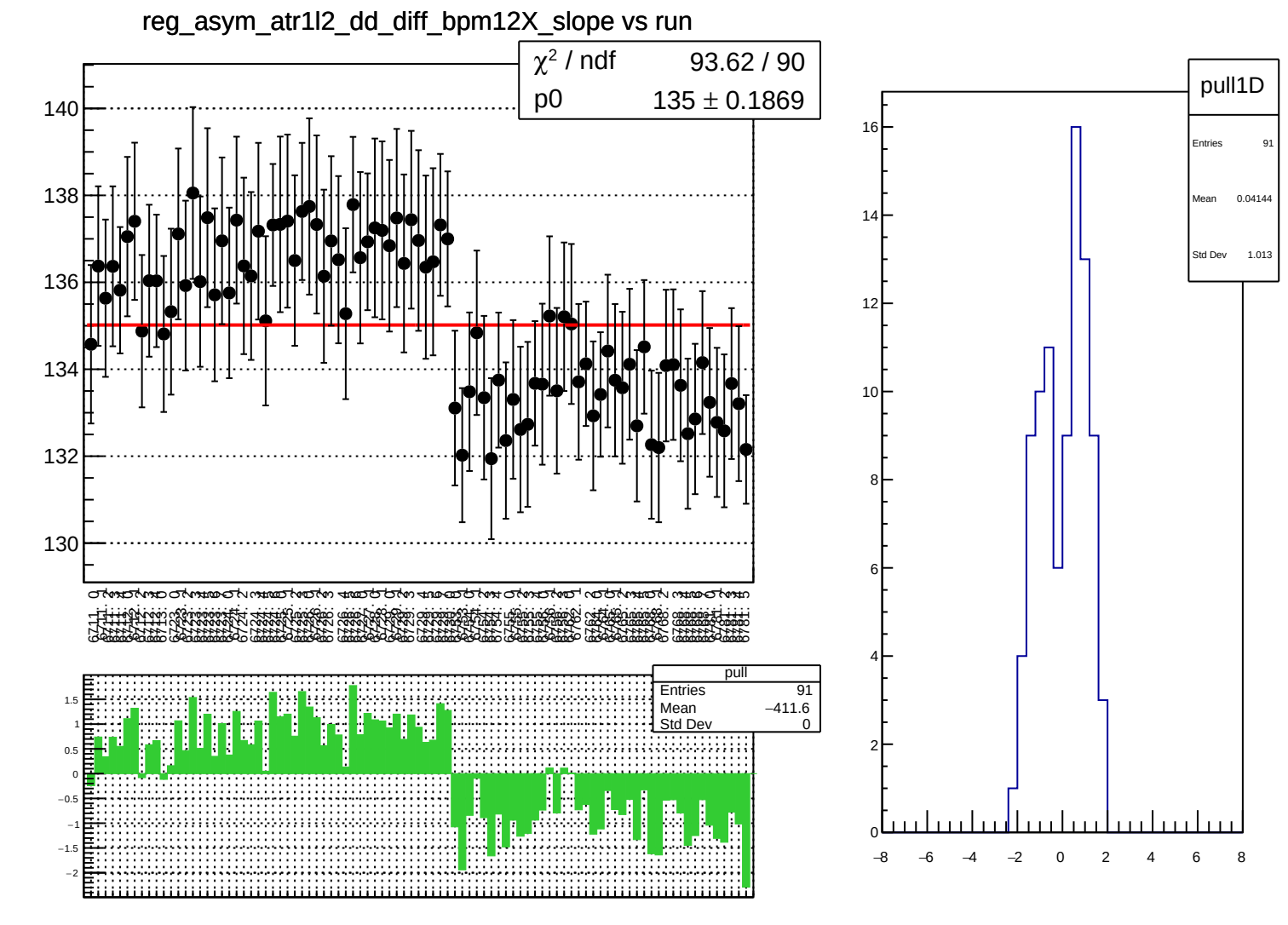

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.24 / 90
p0 −2.168 ± 2.549
pull
Entries 91
Mean −217.1
Std Dev 0

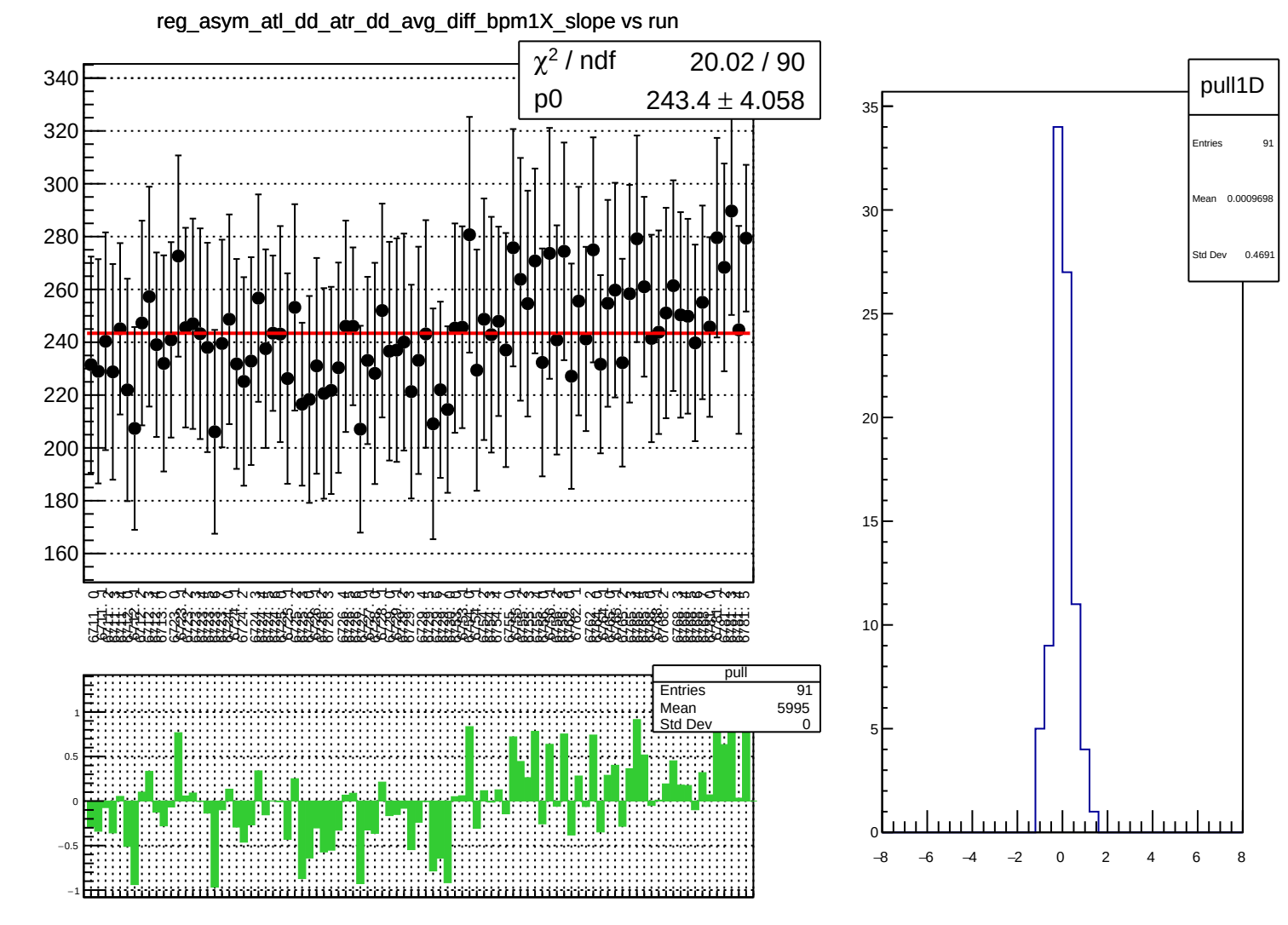

pull1D
Entries 91
Mean 0.009153
Std Dev 0.5161

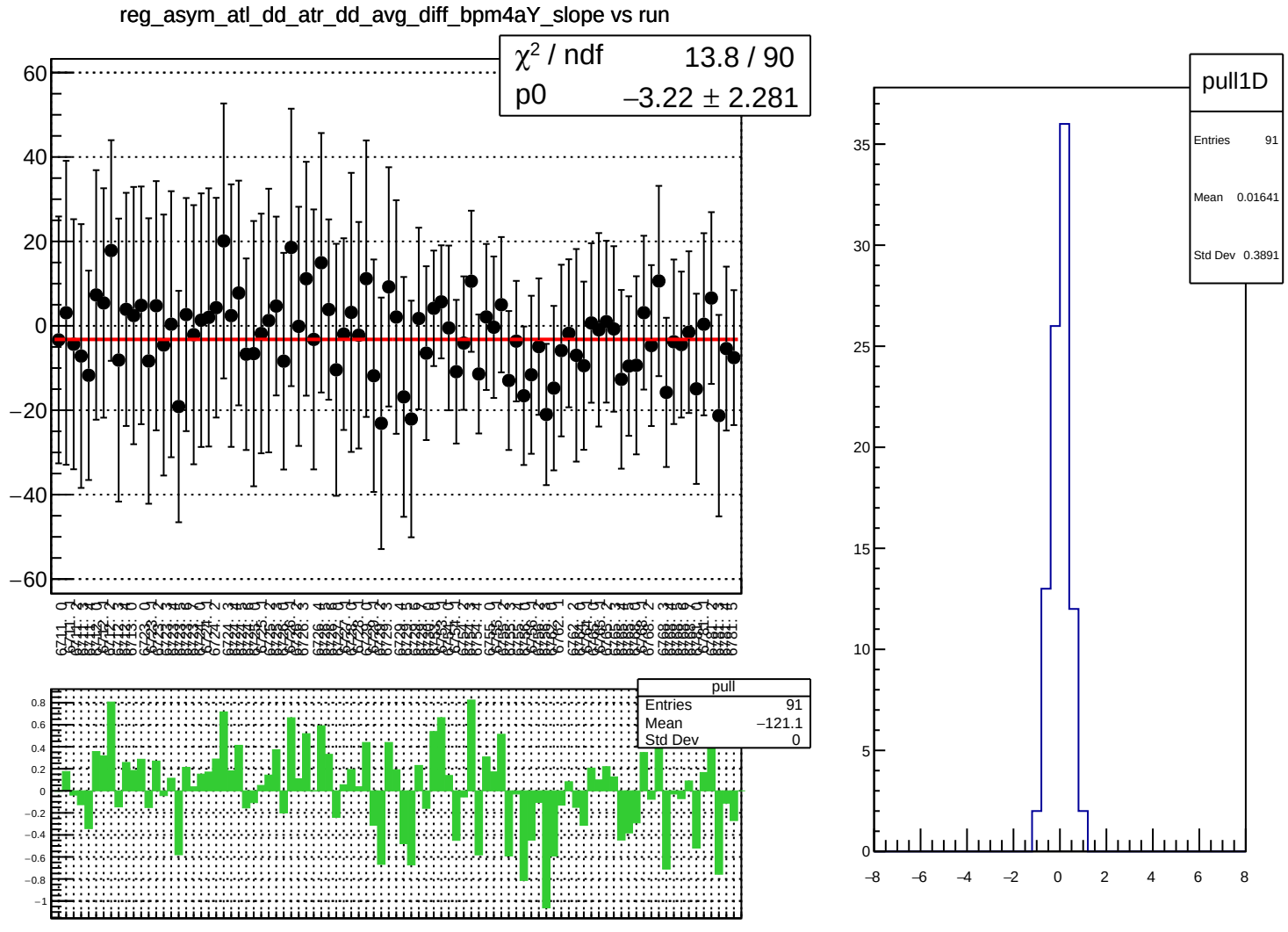

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.26 / 90
p0 −246.6 ± 4.339
−150
−200
−250
−300
−350
pull
Entries 91
Mean −39.93
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 91
Mean 0.004845
Std Dev 0.5269
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

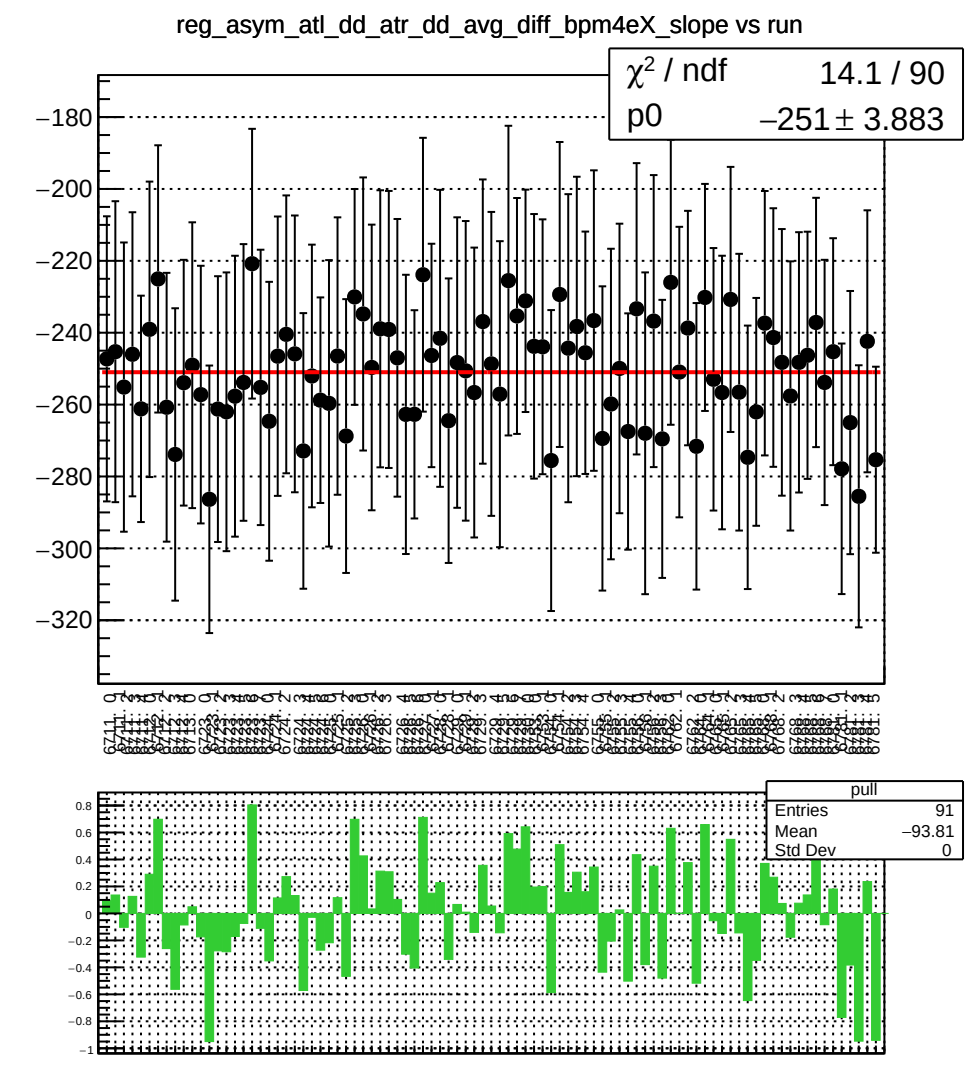

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.44 / 90
p0 −71.62 ± 3.243
pull
Entries 91
Mean −203.2
Std Dev 0

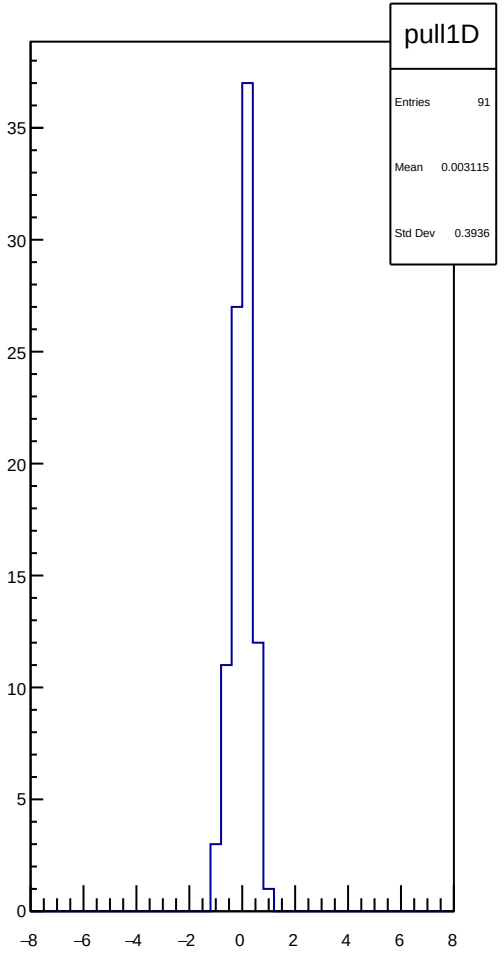

pull1D
Entries 91
Mean −0.01381
Std Dev 0.5388

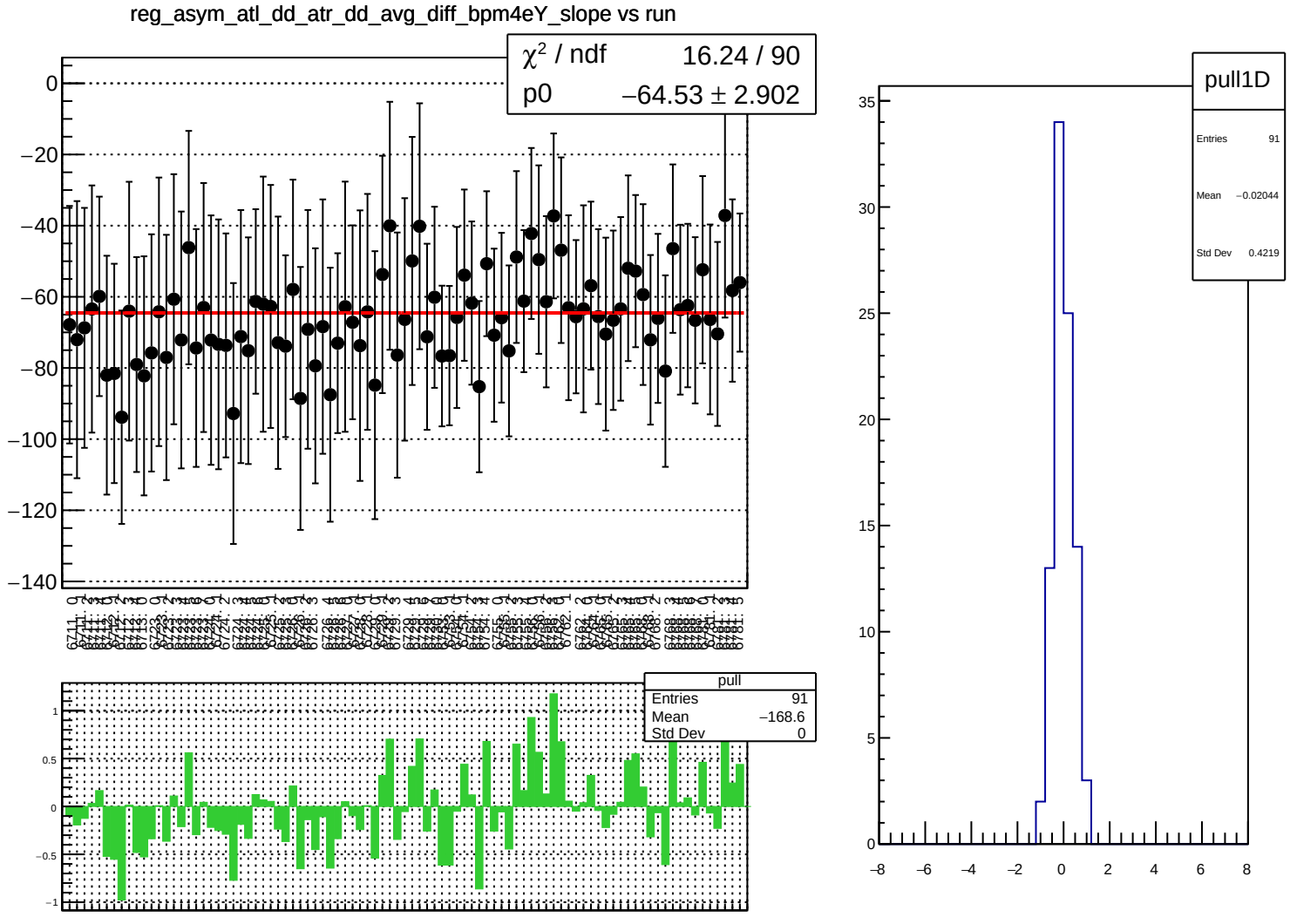

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 93.62 / 90
p0 135 ± 0.1869
140
138
136
134
132
130
pull
Entries 91
Mean −411.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 91
Mean 0.04144
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

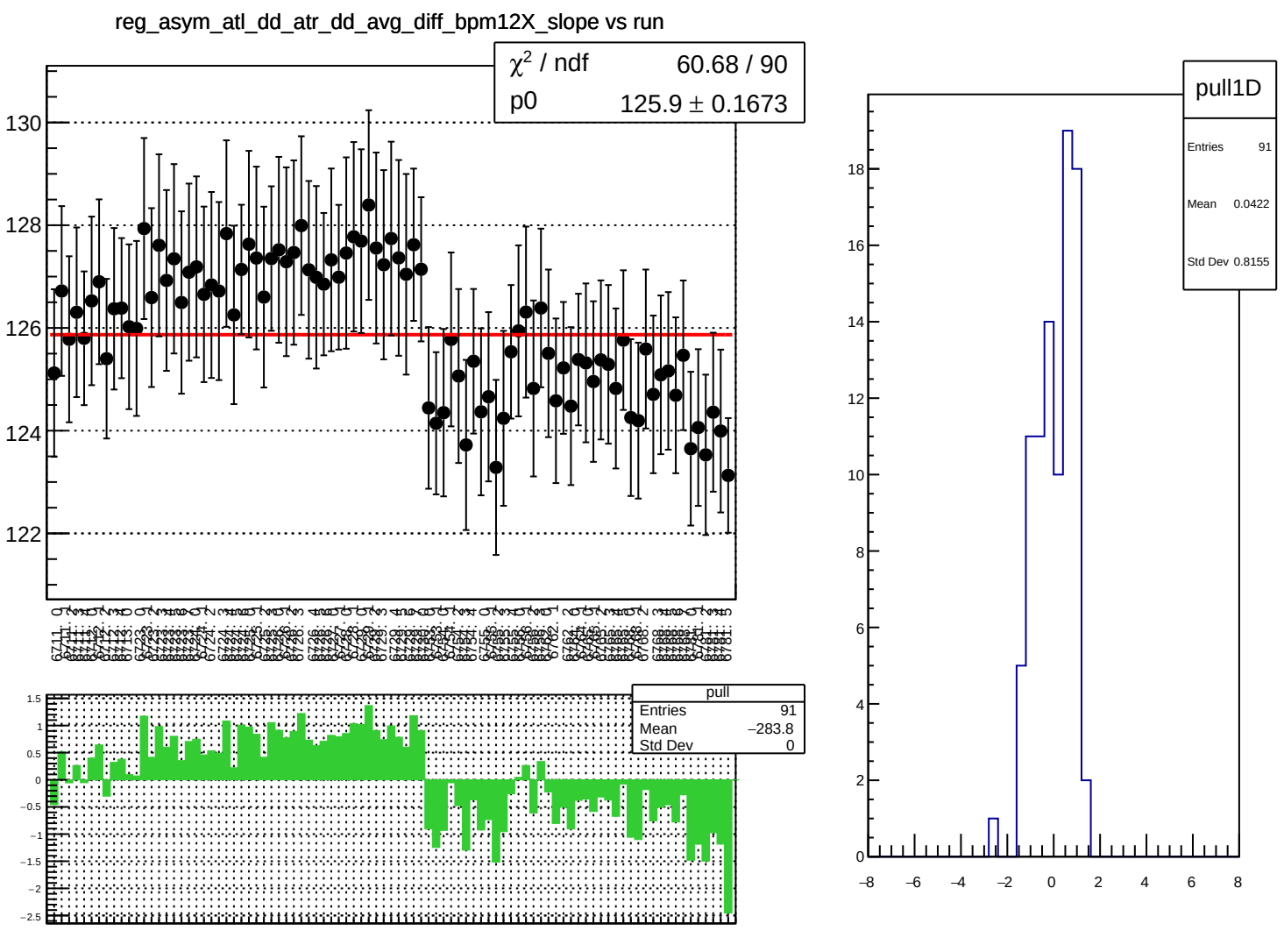

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 20.02 / 90
p0 243.4 ± 4.058
pull
Entries 91
Mean 5995
Std Dev 0
pull1D
Entries 91
Mean 0.0009698
Std Dev 0.4691

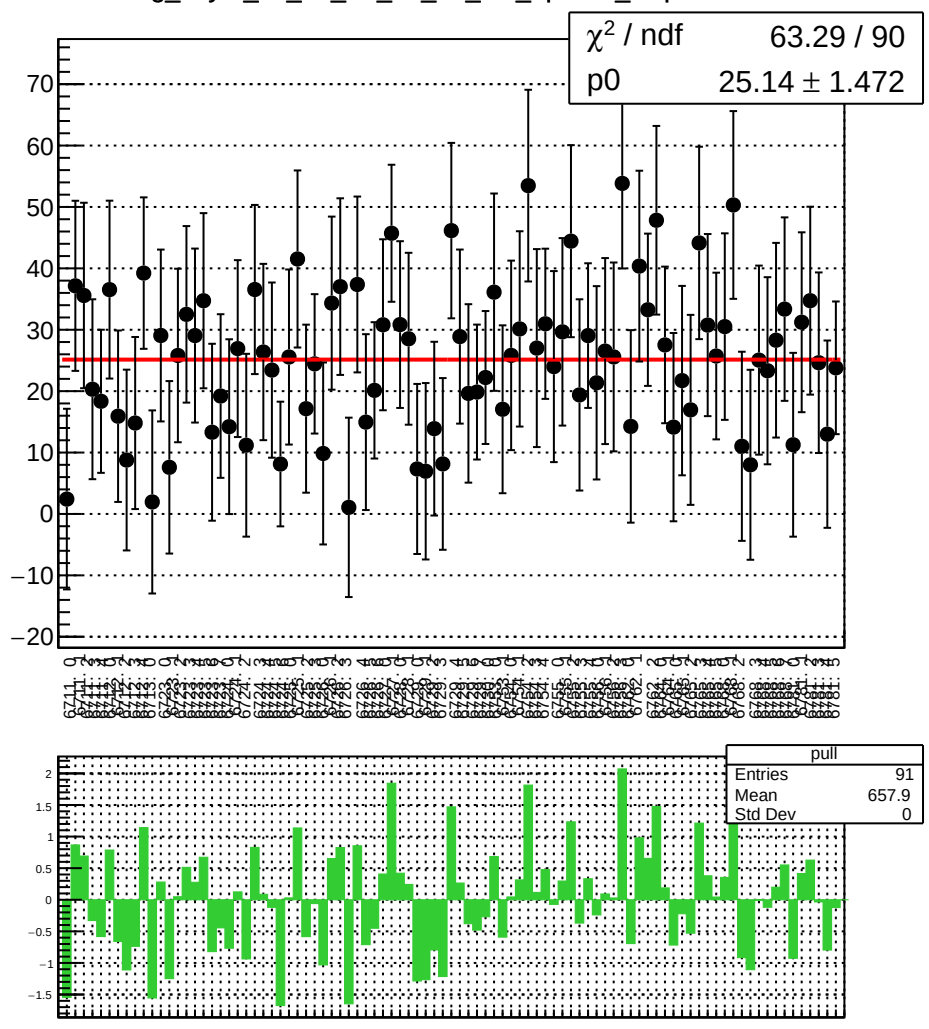

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.8 / 90
p0 −3.22 ± 2.281
pull
Entries 91
Mean −121.1
Std Dev 0
pull1D
Entries 91
Mean 0.01641
Std Dev 0.3891

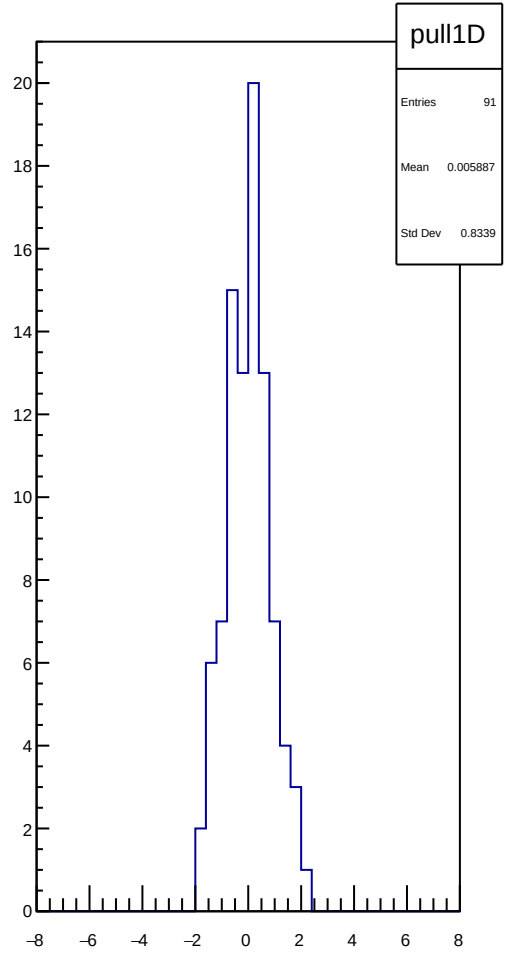

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.1 / 90
p0 −251 ± 3.883
pull
Entries 91
Mean −93.81
Std Dev 0

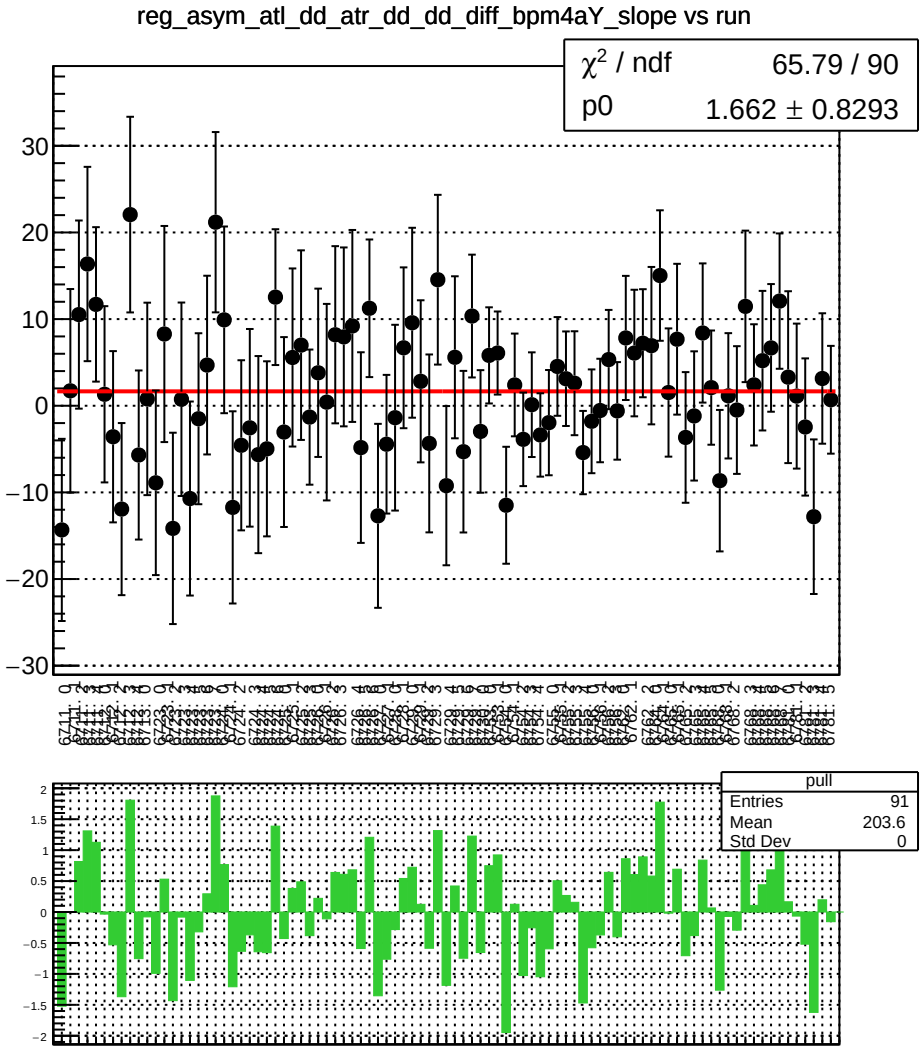

pull1D
Entries 91
Mean 0.003115
Std Dev 0.3936

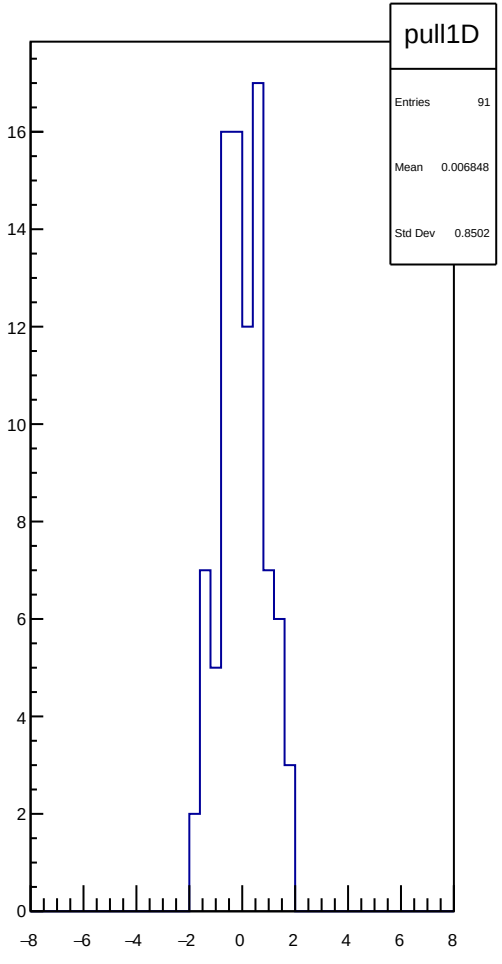

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.24 / 90
p0 −64.53 ± 2.902
pull
Entries 91
Mean −168.6
Std Dev 0
pull1D
Entries 91
Mean −0.02044
Std Dev 0.4219

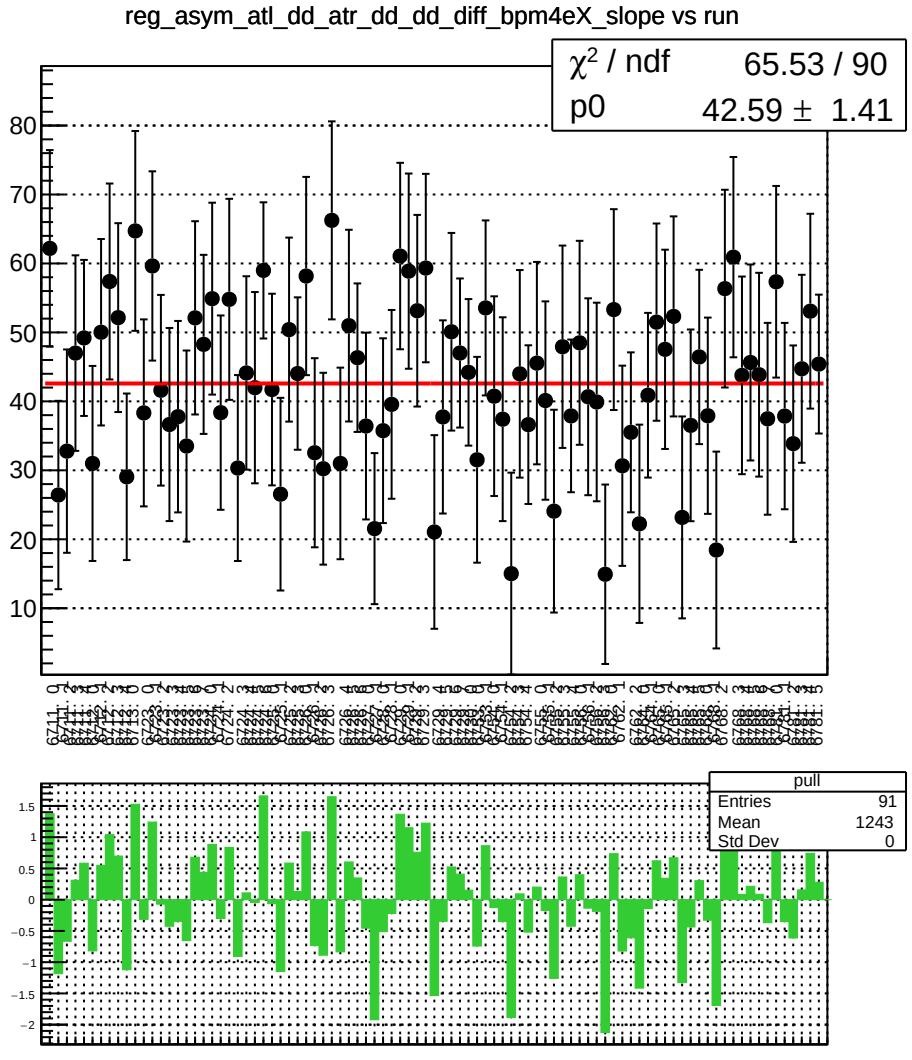

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 60.68 / 90
p0 125.9 ± 0.1673
130
128
126
124
122
pull
Entries 91
Mean −283.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 91
Mean 0.0422
Std Dev 0.8155
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

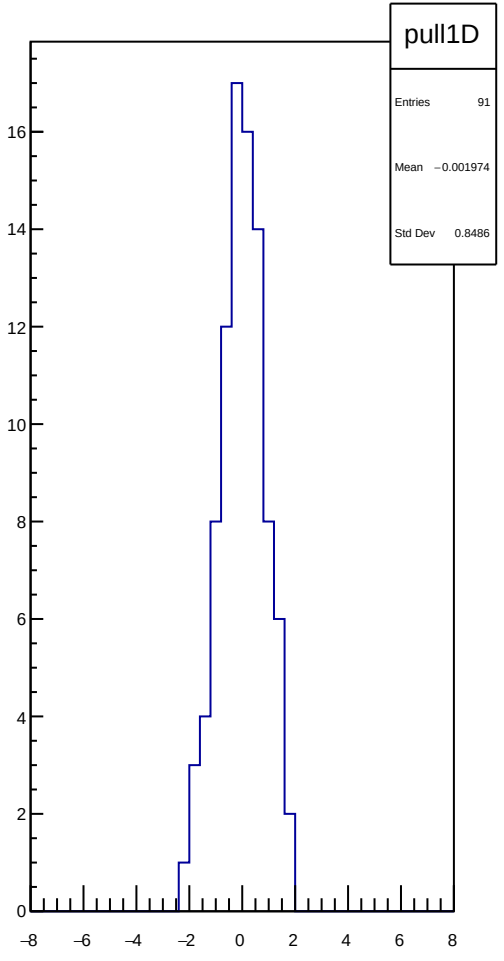

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 63.29 / 90
p0 25.14 ± 1.472
pull
Entries 91
Mean 657.9
Std Dev 0

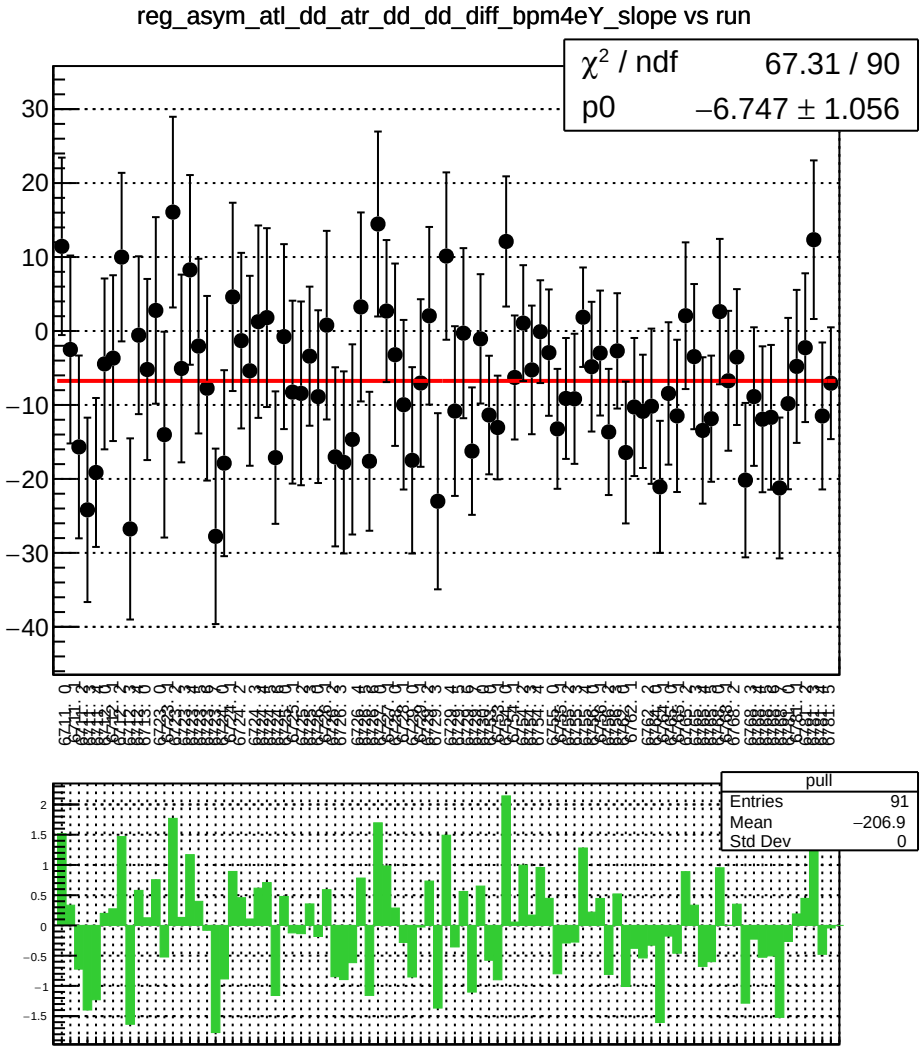

pull1D
Entries 91
Mean 0.005887
Std Dev 0.8339

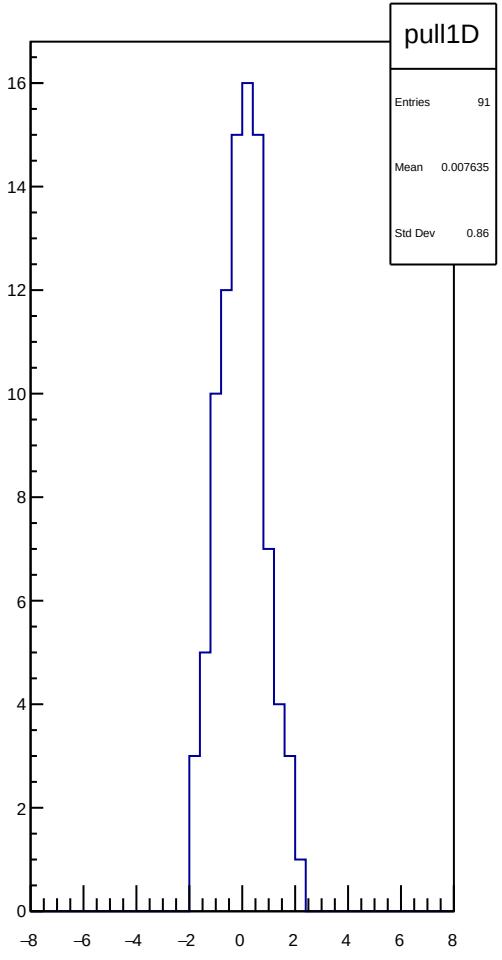

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.79 / 90
p0 1.662 ± 0.8293
pull
Entries 91
Mean 203.6
Std Dev 0

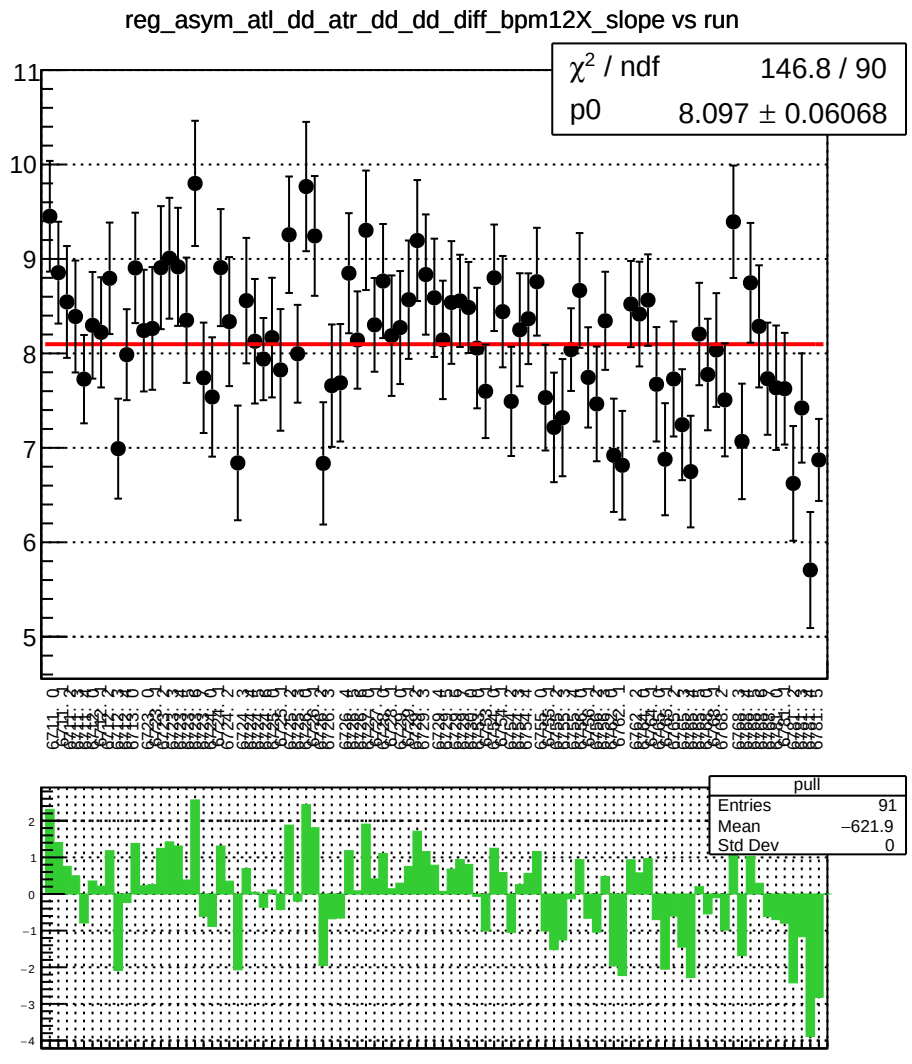

pull1D
Entries 91
Mean 0.006848
Std Dev 0.8502

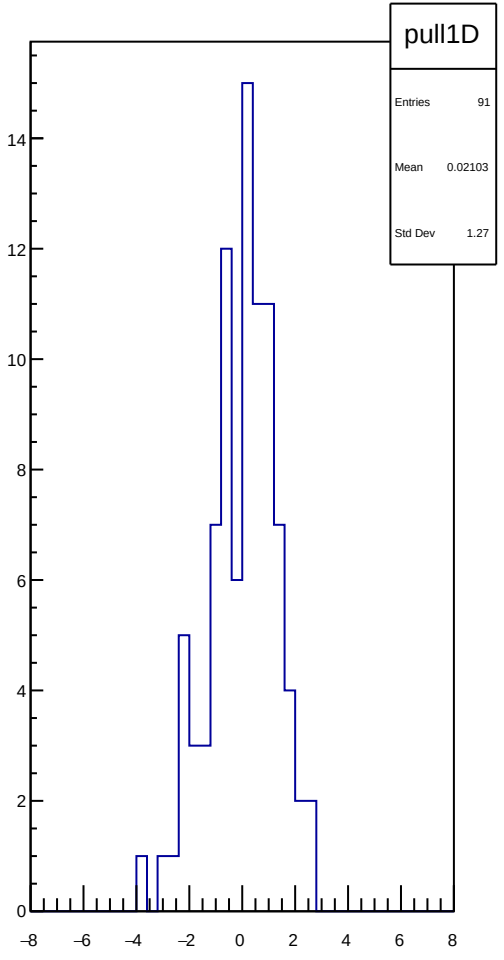

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 65.53 / 90
p0 42.59 ± 1.41
pull
Entries 91
Mean 1243
Std Dev 0

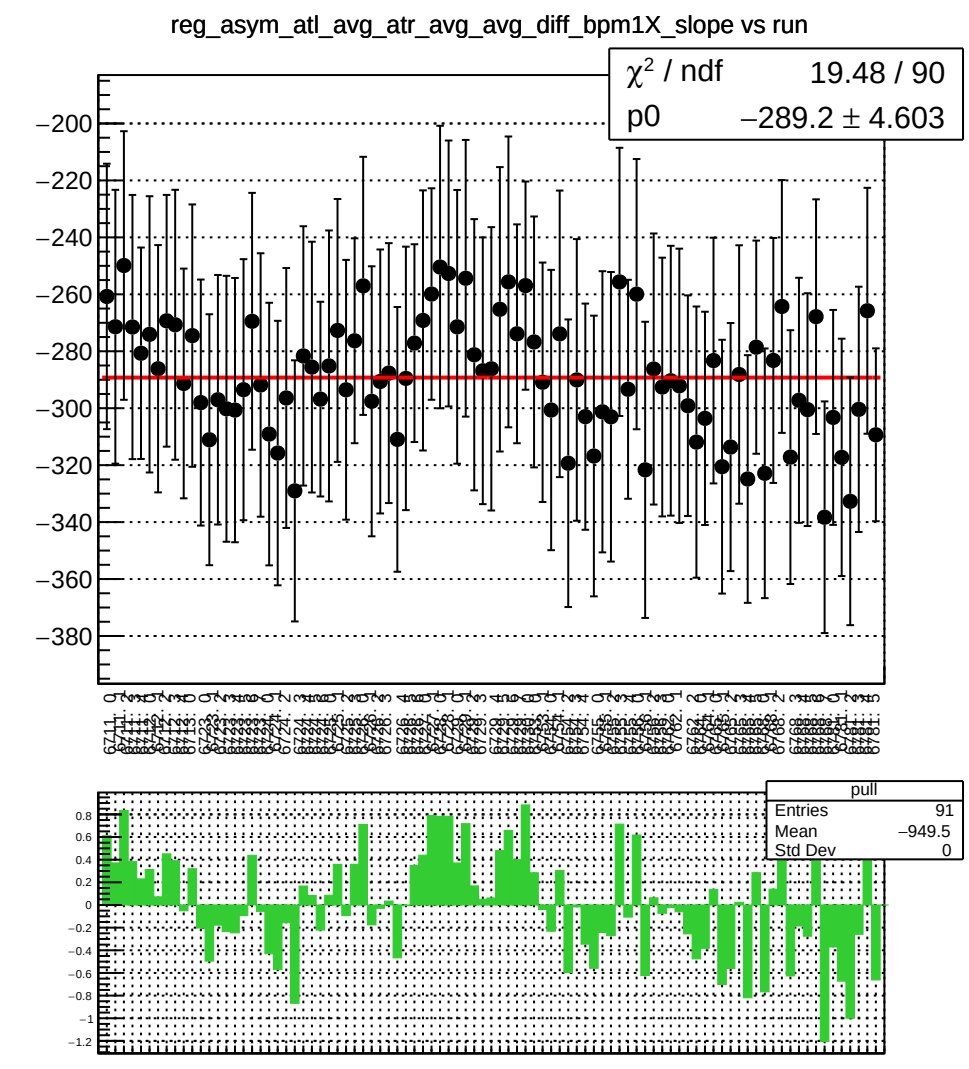

pull1D
Entries 91
Mean −0.001974
Std Dev 0.8486

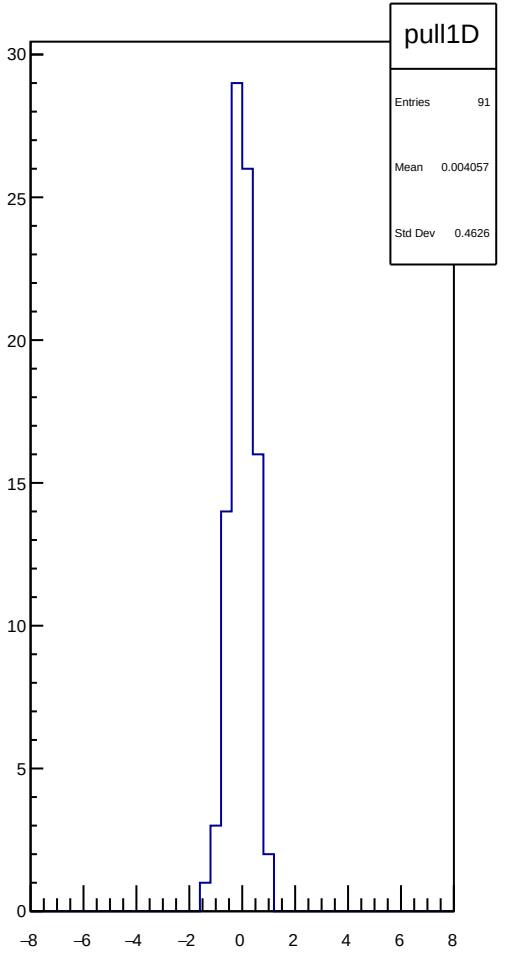

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.31 / 90
p0 −6.747 ± 1.056
pull
Entries 91
Mean −206.9
Std Dev 0

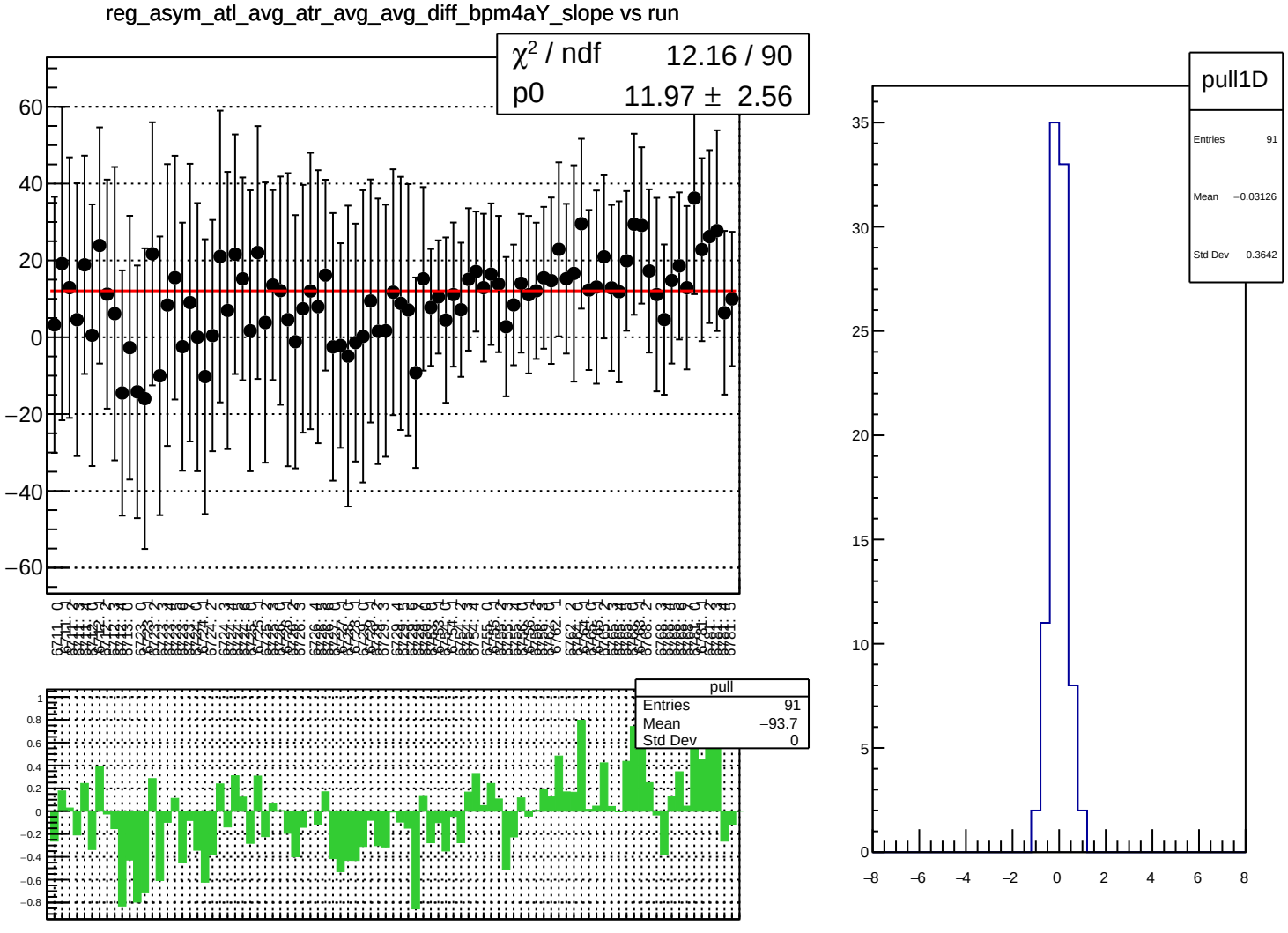

pull1D
Entries 91
Mean 0.007635
Std Dev 0.86

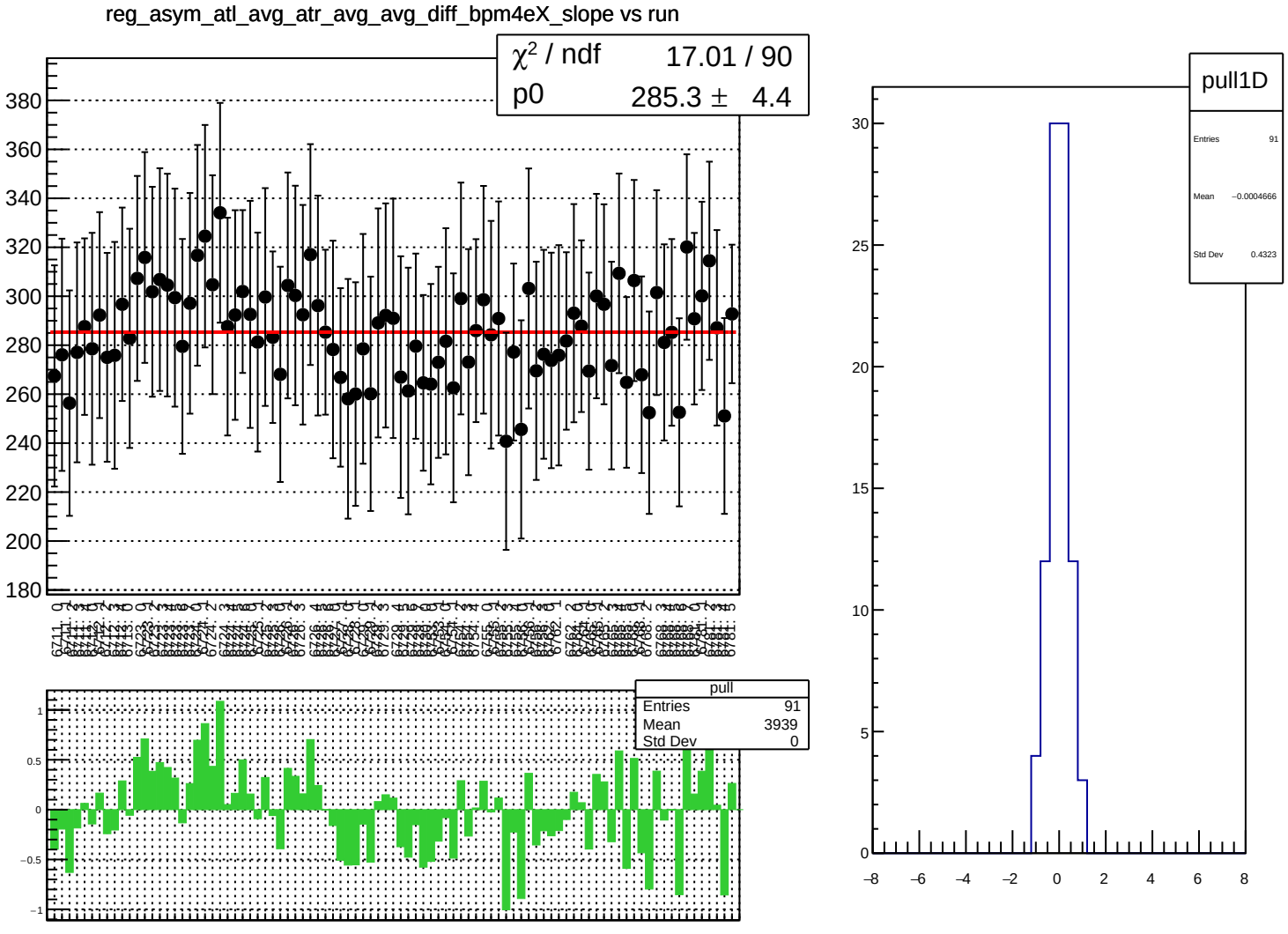

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 146.8 / 90
p0 8.097 ± 0.06068
pull
Entries 91
Mean −621.9
Std Dev 0

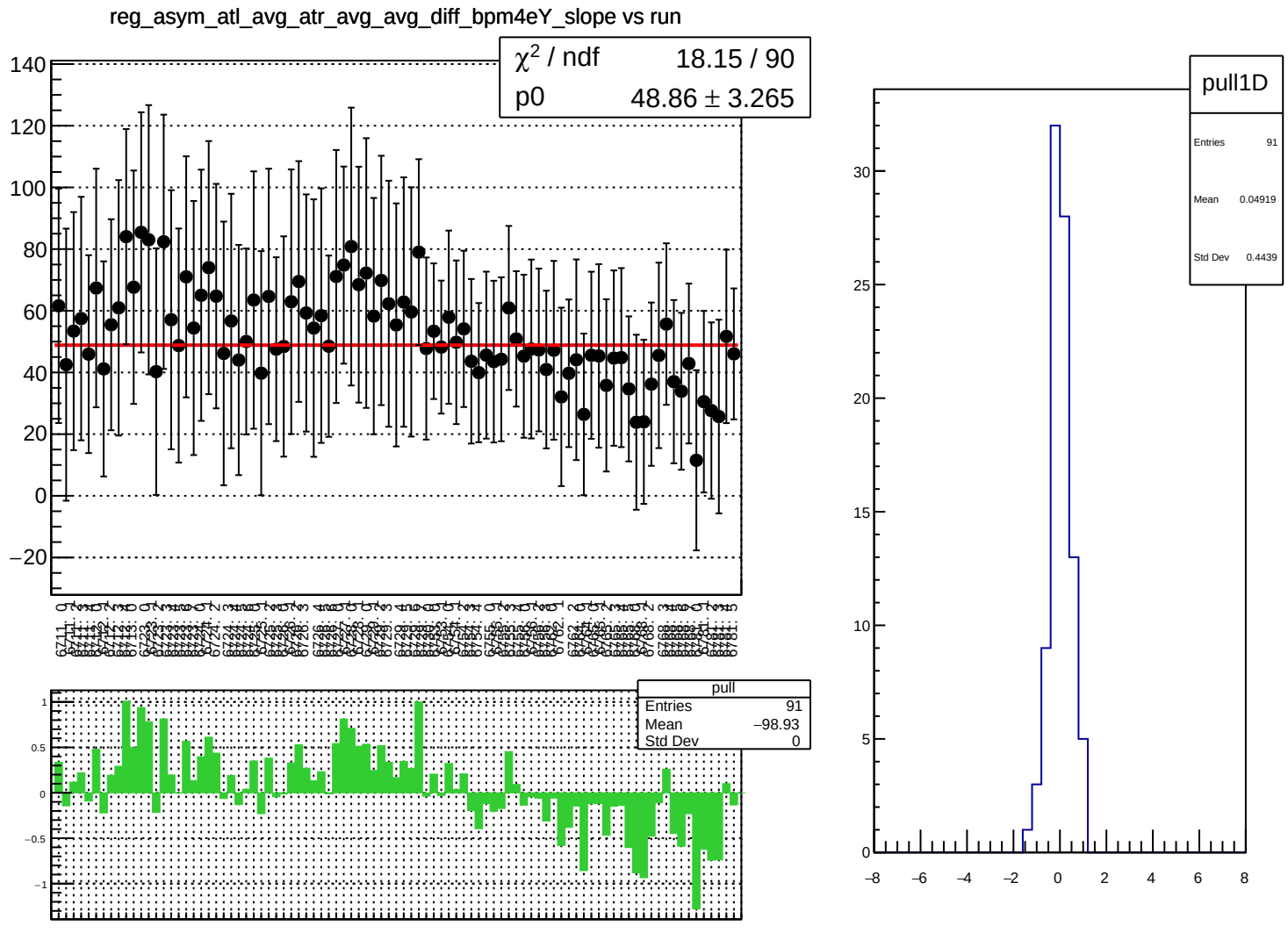

pull1D
Entries 91
Mean 0.02103
Std Dev 1.27

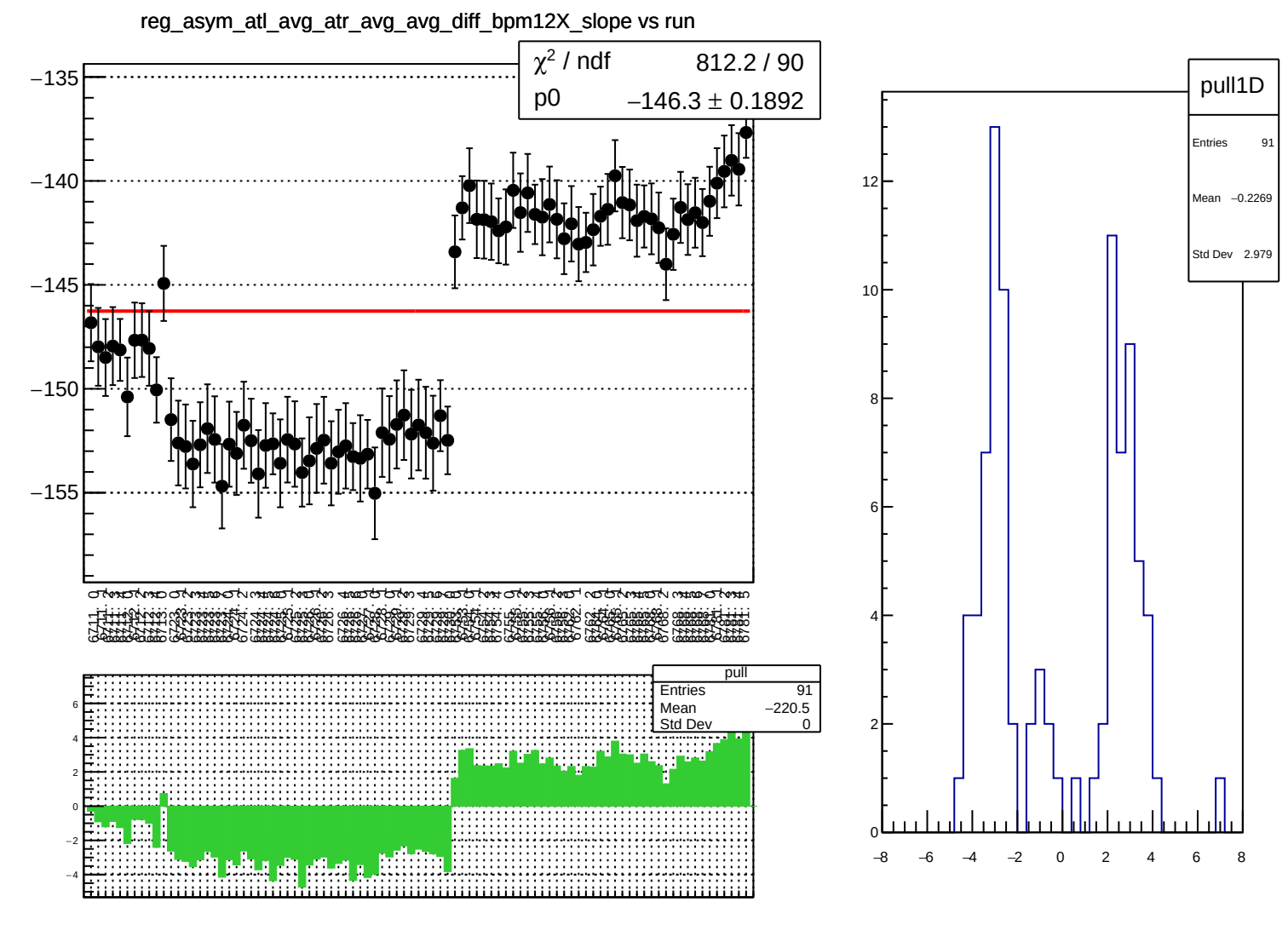

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 19.48 / 90
p0 −289.2 ± 4.603
pull
Entries 91
Mean −949.5
Std Dev 0

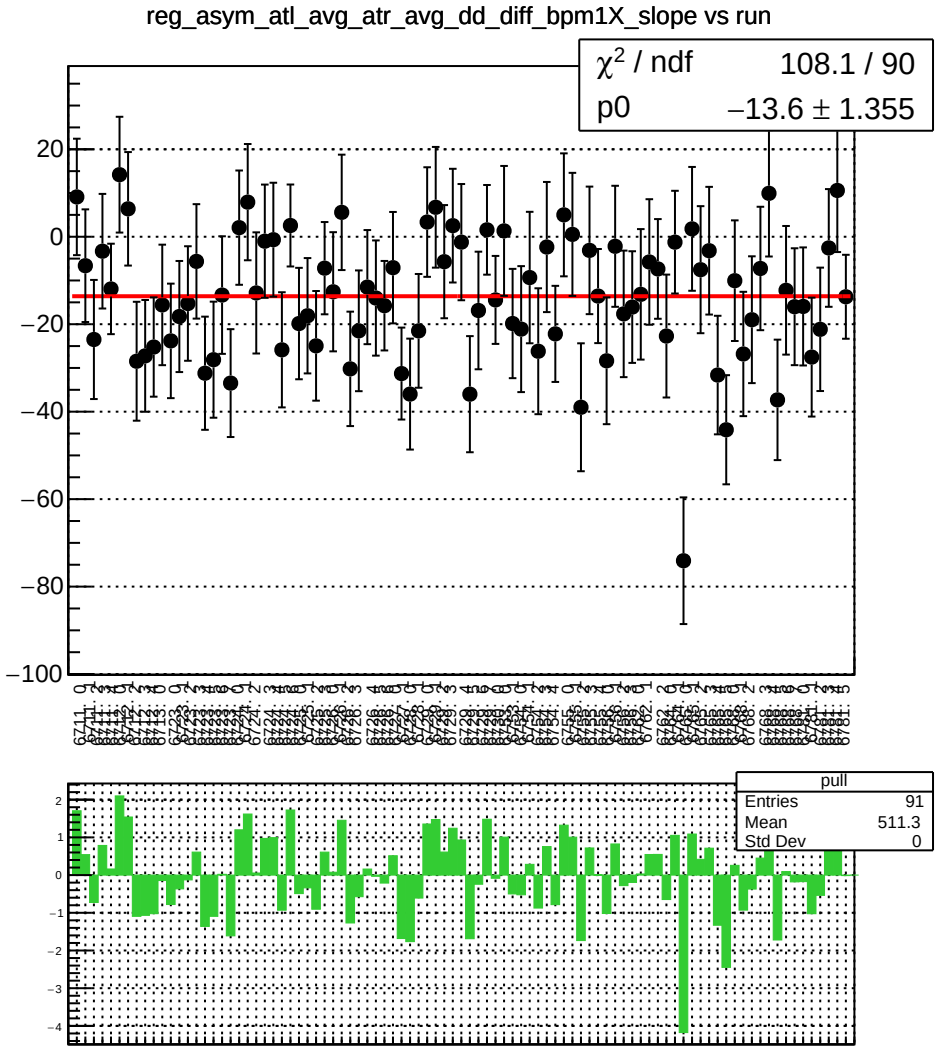

pull1D
Entries 91
Mean 0.004057
Std Dev 0.4626

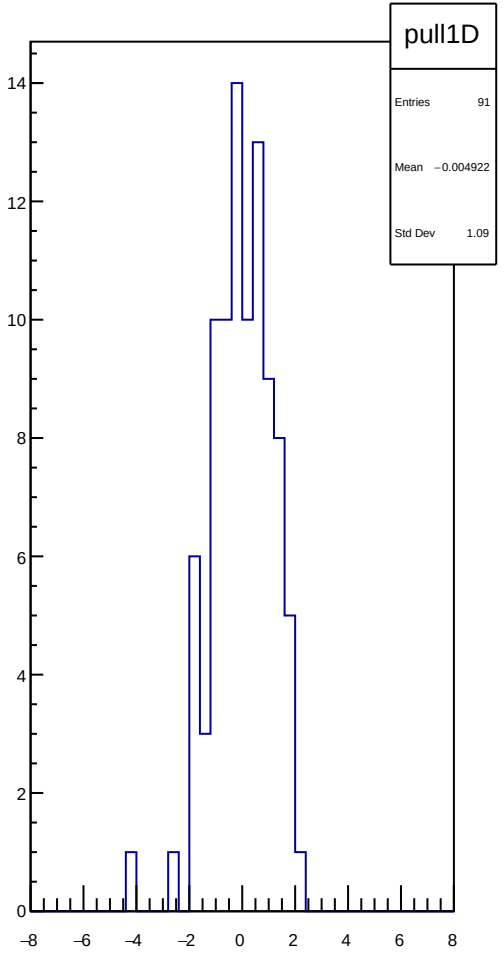

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.16 / 90
p0 11.97 ± 2.56
pull
Entries 91
Mean −93.7
Std Dev 0
pull1D
Entries 91
Mean −0.03126
Std Dev 0.3642

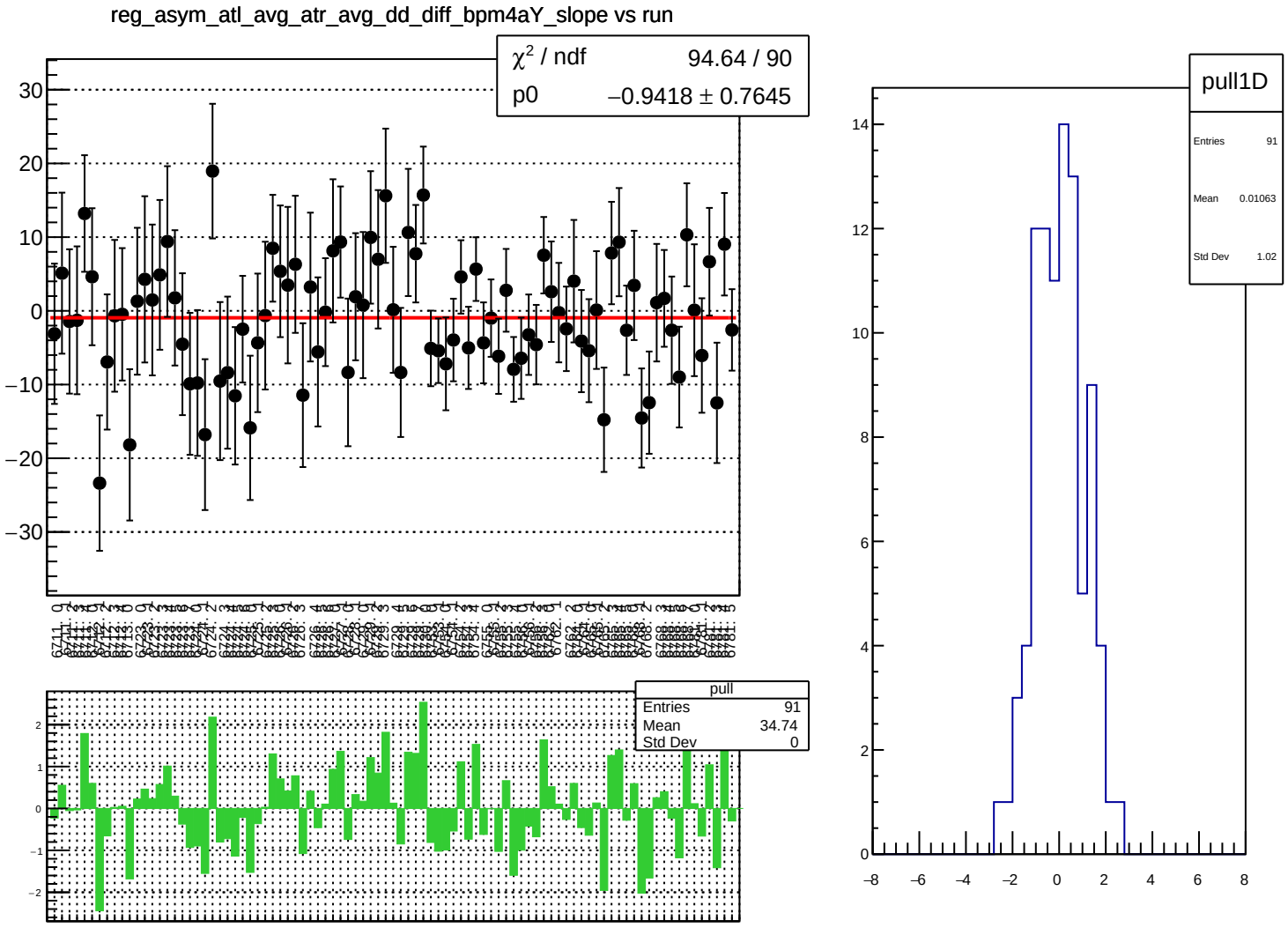

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.01 / 90
p0 285.3 ± 4.4
pull
Entries 91
Mean 3939
Std Dev 0
pull1D
Entries 91
Mean −0.0004666
Std Dev 0.4323

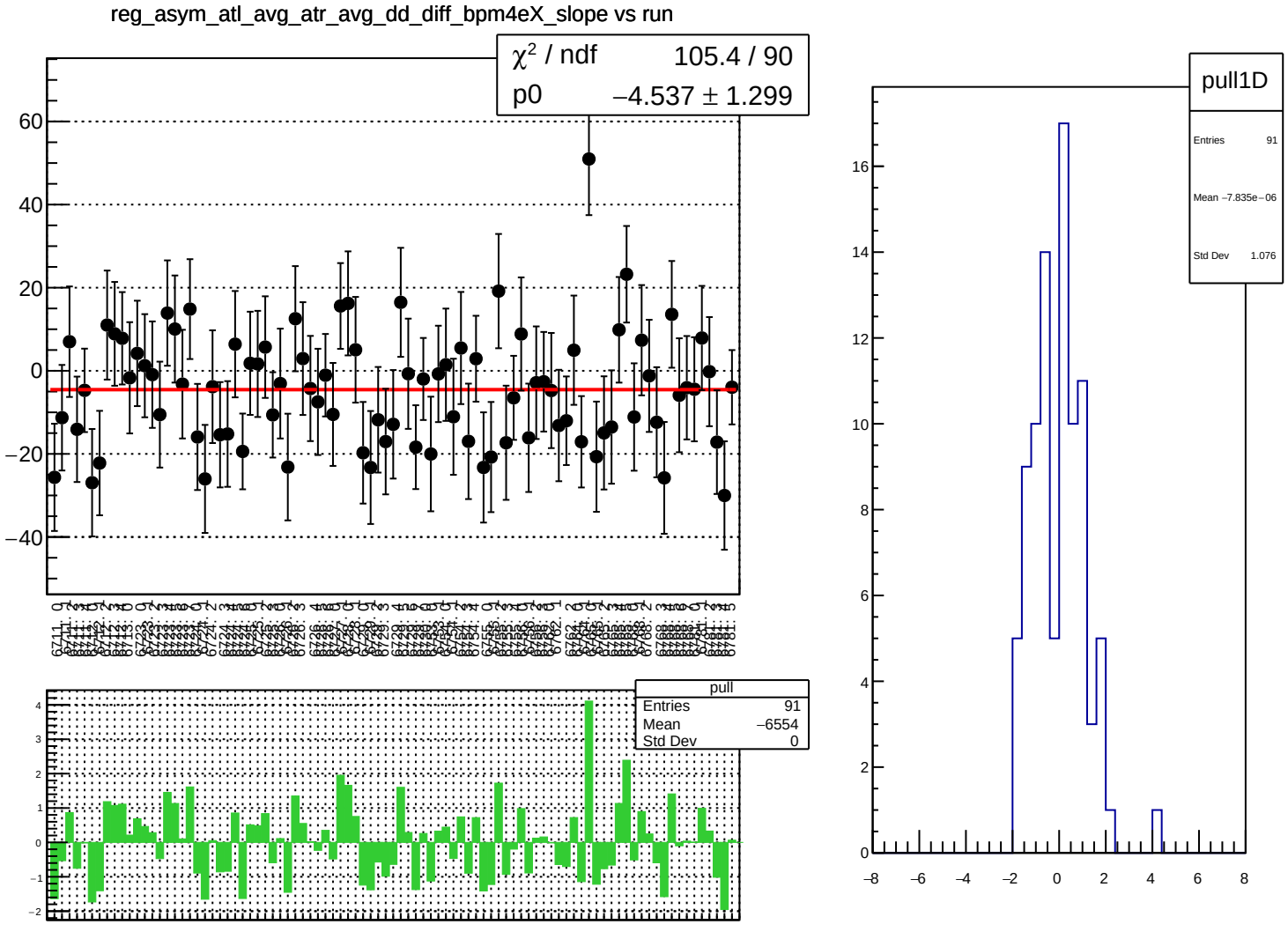

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.15 / 90
p0 48.86 ± 3.265
pull
Entries 91
Mean −98.93
Std Dev 0
pull1D
Entries 91
Mean 0.04919
Std Dev 0.4439

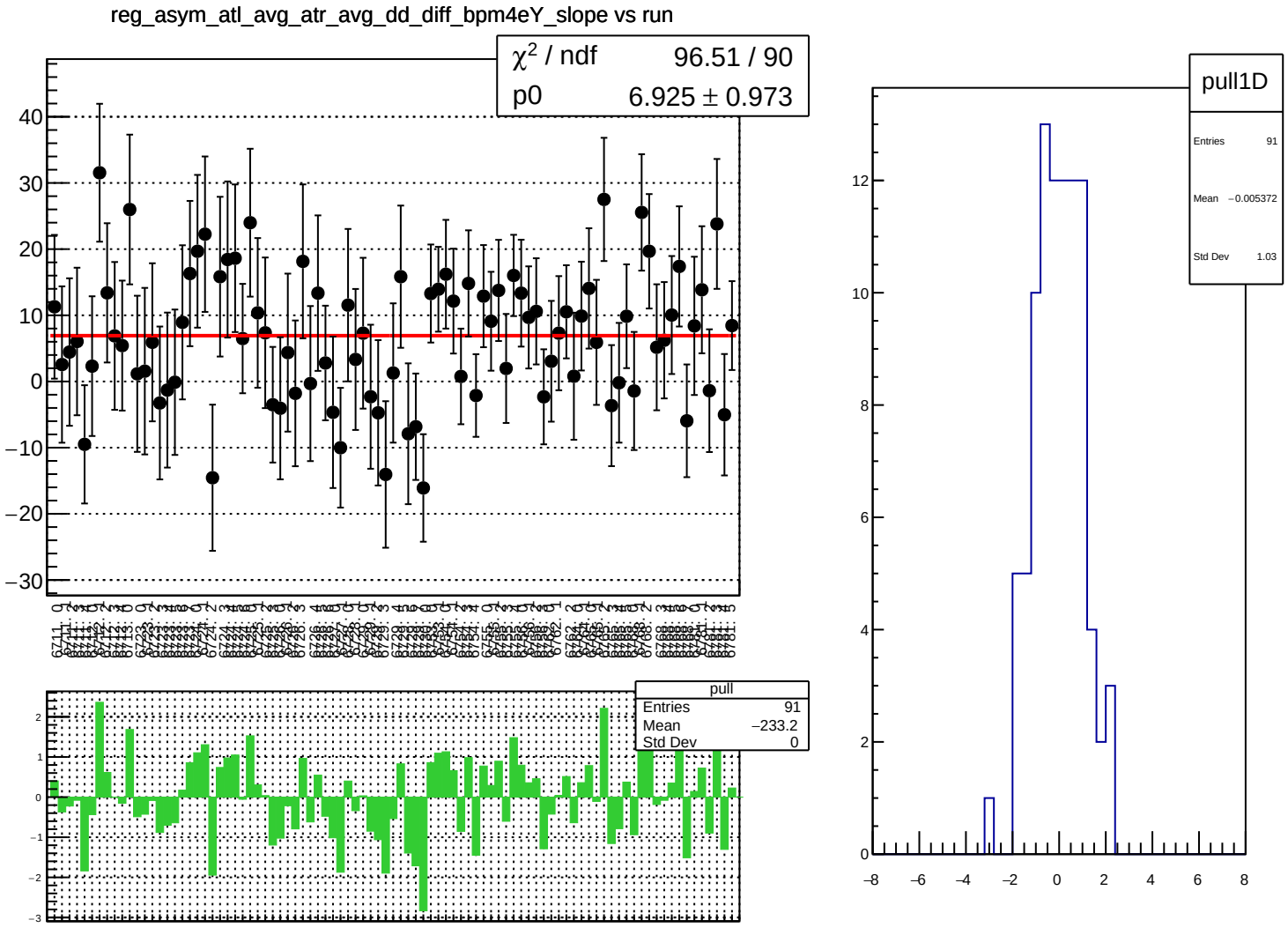

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 812.2 / 90
p0 −146.3 ± 0.1892
−135
−140
−145
−150
−155
pull
Entries 91
Mean −220.5
Std Dev 0
pull1D
Entries 91
Mean −0.2269
Std Dev 2.979

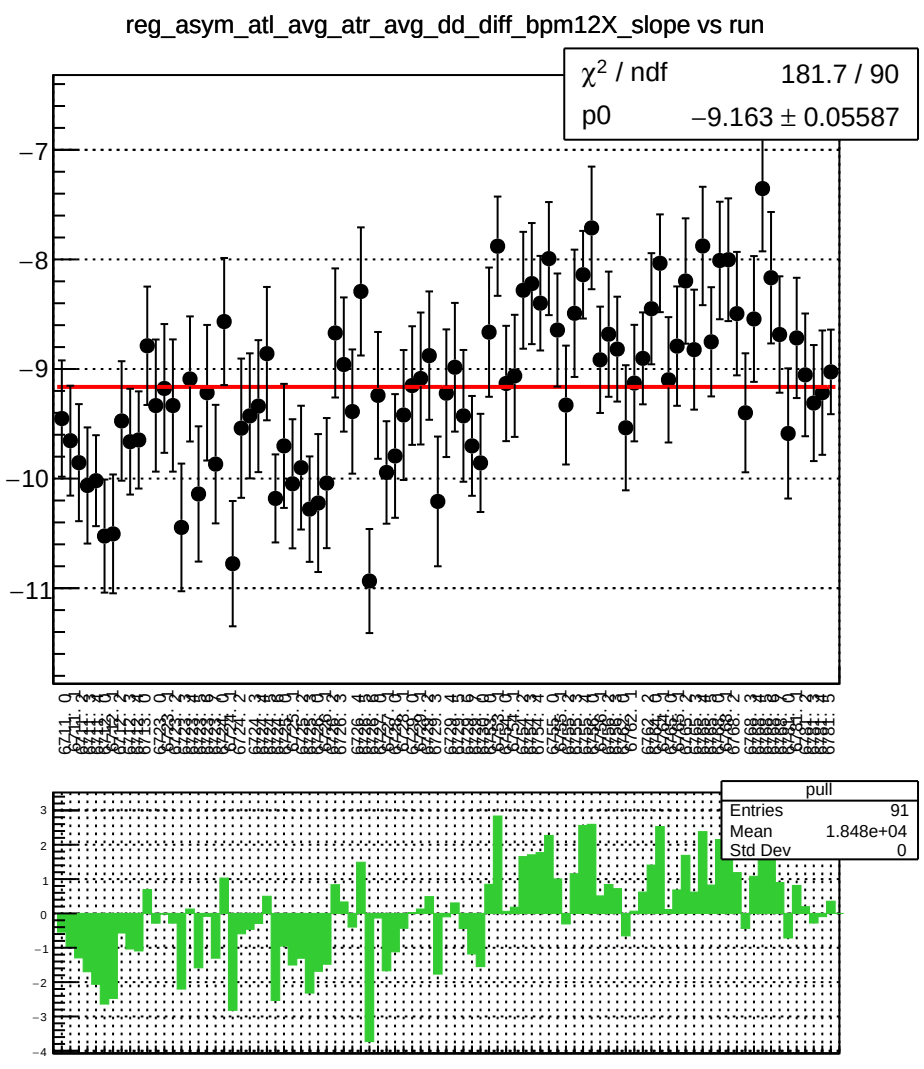

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 108.1 / 90
p0 −13.6 ± 1.355
pull
Entries 91
Mean 511.3
Std Dev 0

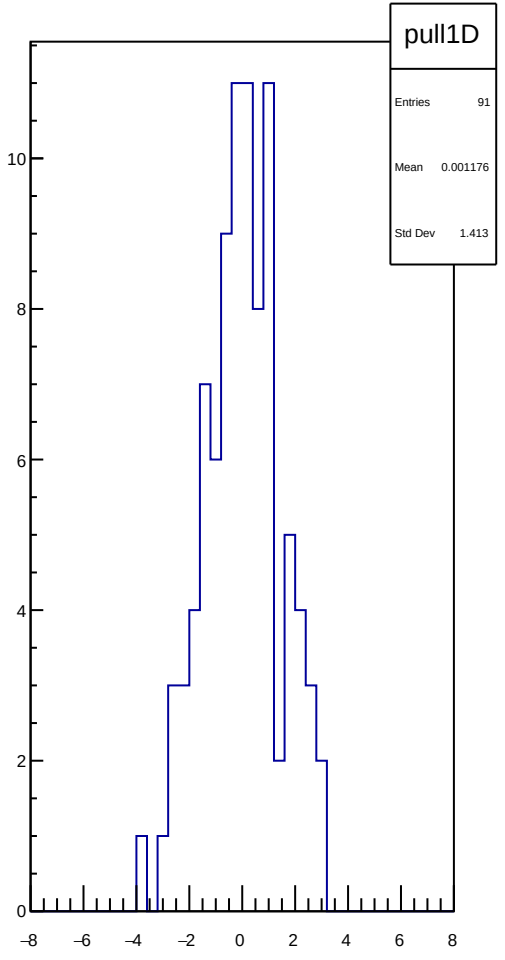

pull1D
Entries 91
Mean −0.004922
Std Dev 1.09

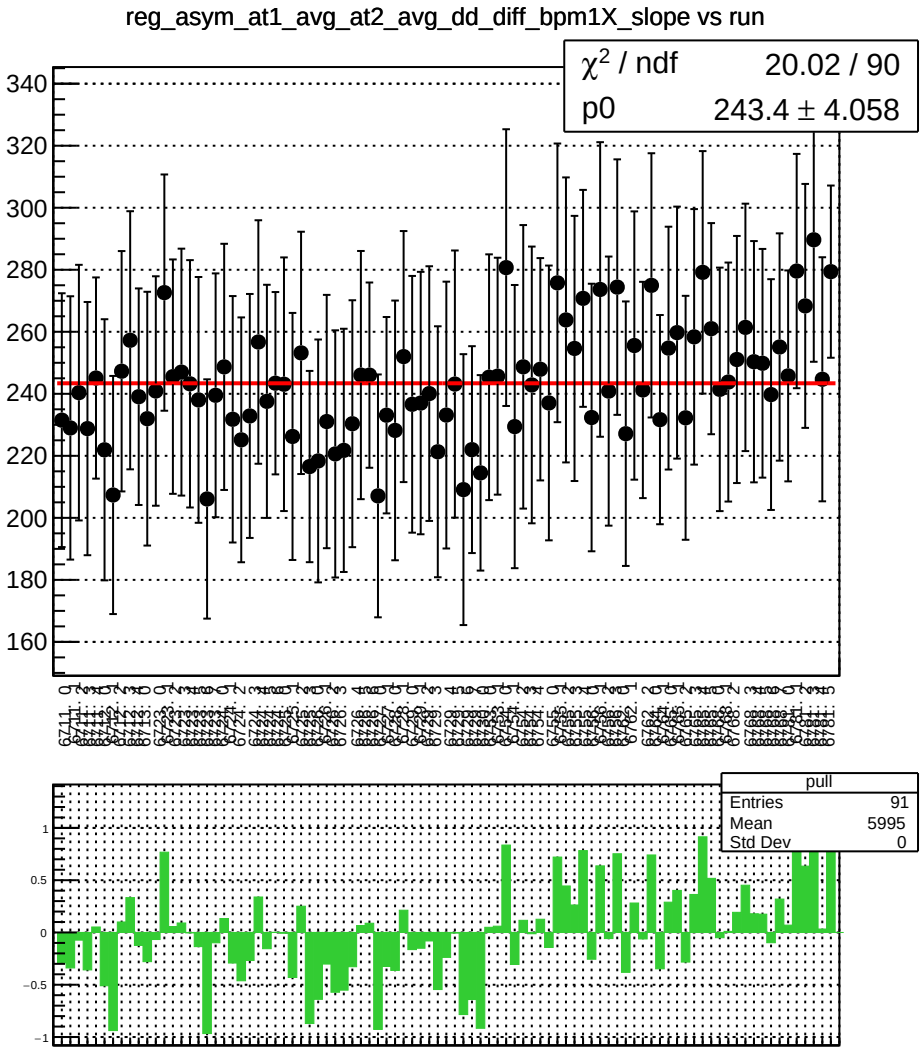

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 94.64 / 90
p0 −0.9418 ± 0.7645
pull
Entries 91
Mean 34.74
Std Dev 0
pull1D
Entries 91
Mean 0.01063
Std Dev 1.02

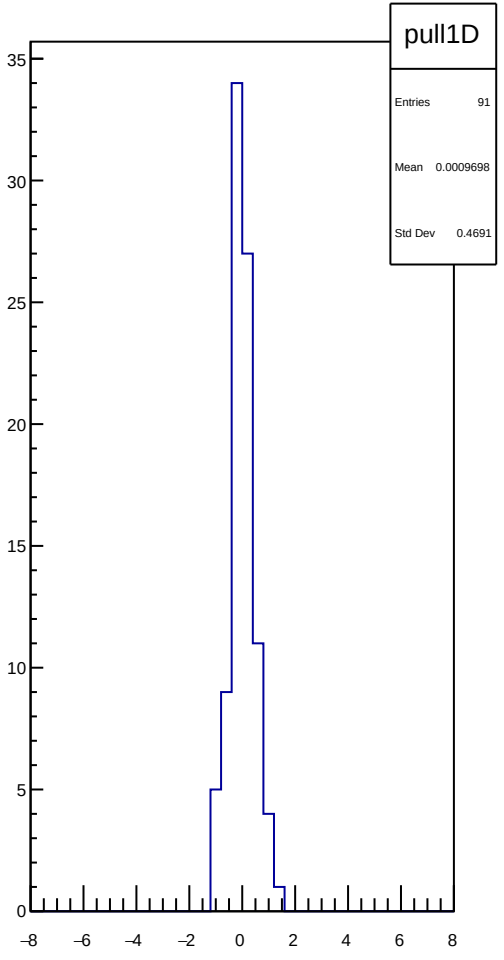

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 105.4 / 90
p0 −4.537 ± 1.299
pull
Entries 91
Mean −6554
Std Dev 0
pull1D
Entries 91
Mean −7.835e−06
Std Dev 1.076

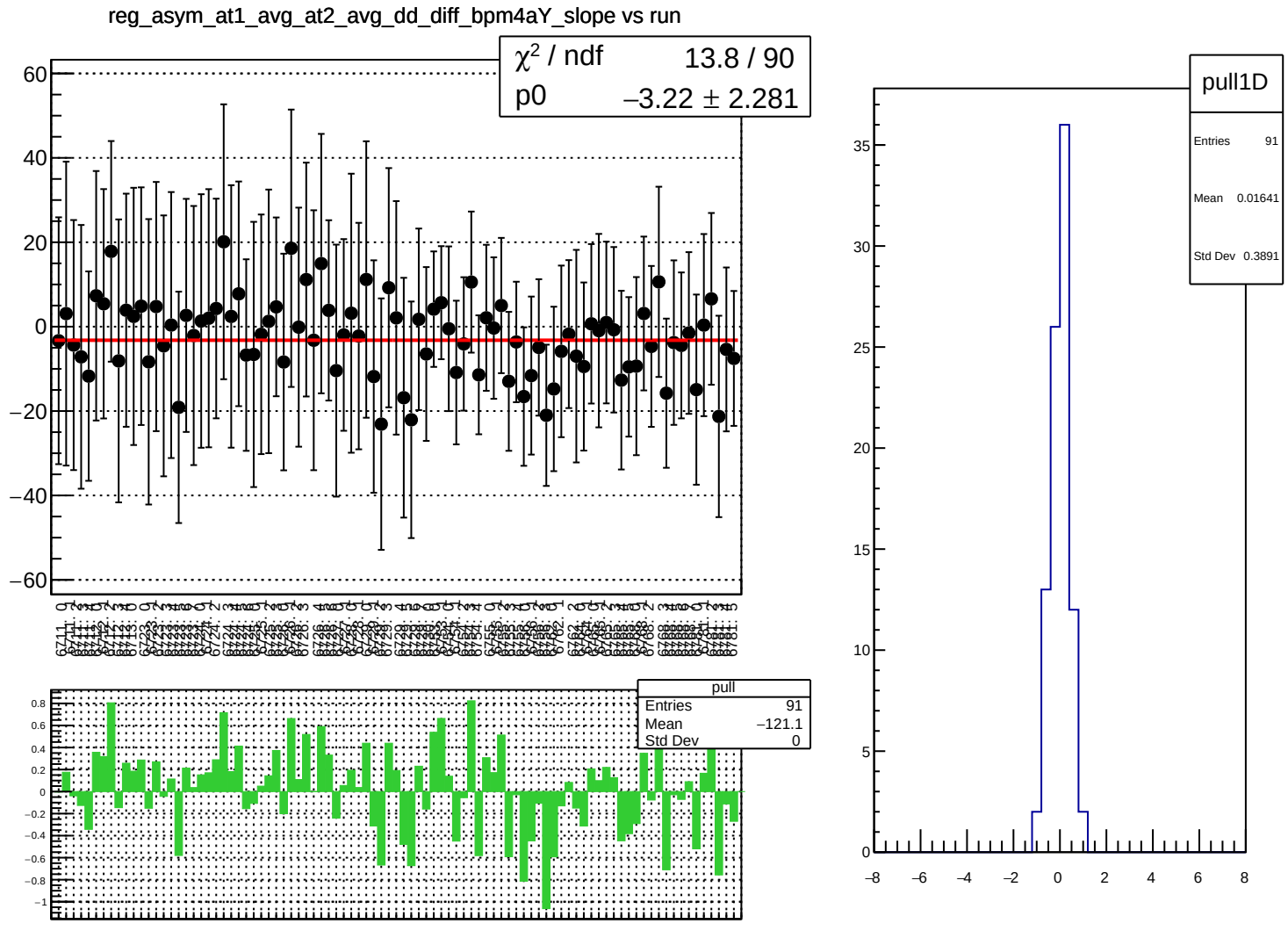

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 96.51 / 90
p0 6.925 ± 0.973
pull
Entries 91
Mean −233.2
Std Dev 0
pull1D
Entries 91
Mean −0.005372
Std Dev 1.03

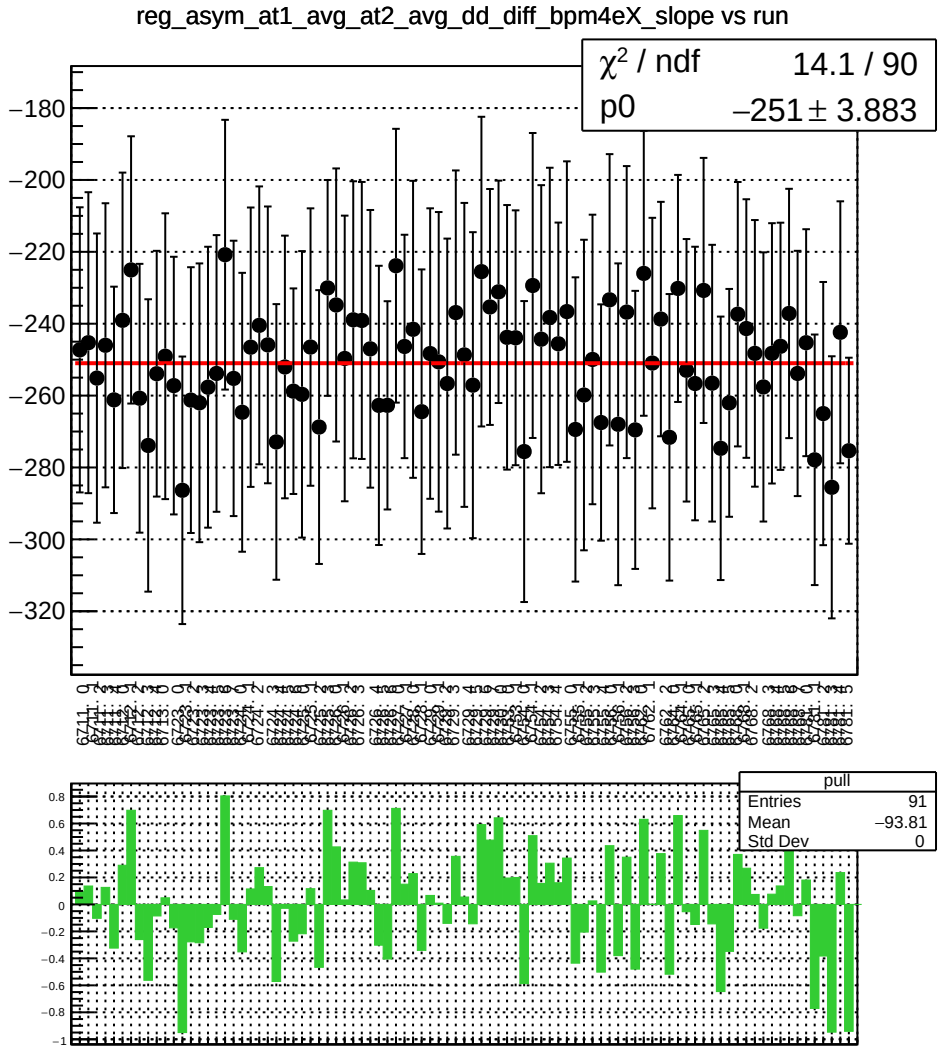

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 181.7 / 90
p0 −9.163 ± 0.05587
pull
Entries 91
Mean 1.848e+04
Std Dev 0

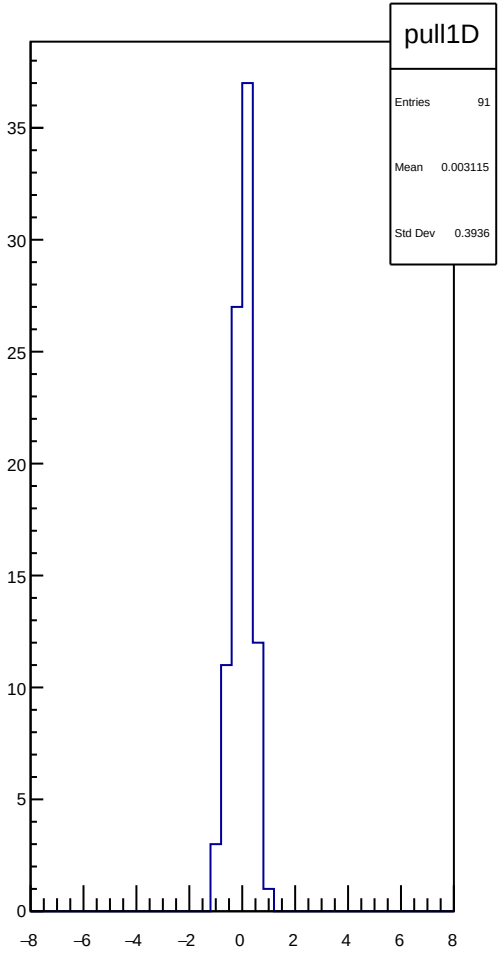

pull1D
Entries 91
Mean 0.001176
Std Dev 1.413

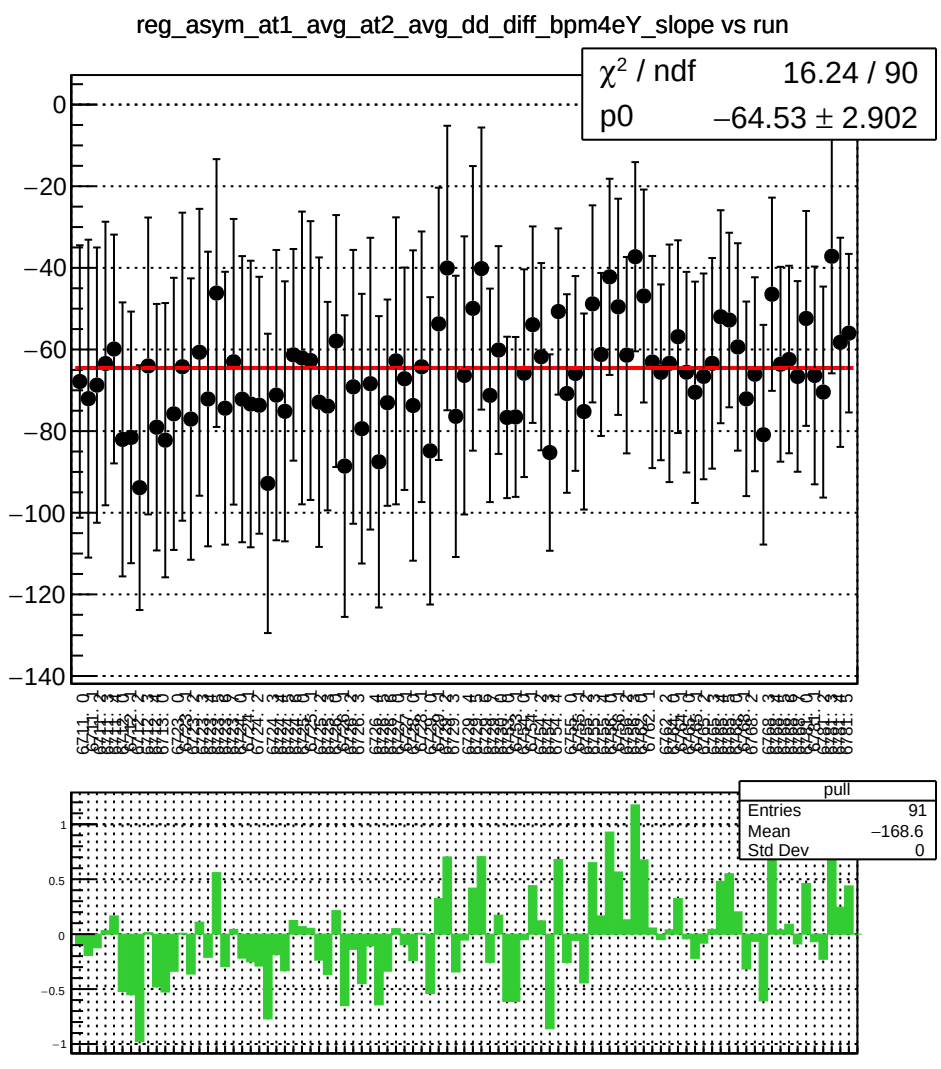

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 20.02 / 90
p0 243.4 ± 4.058
pull
Entries 91
Mean 5995
Std Dev 0

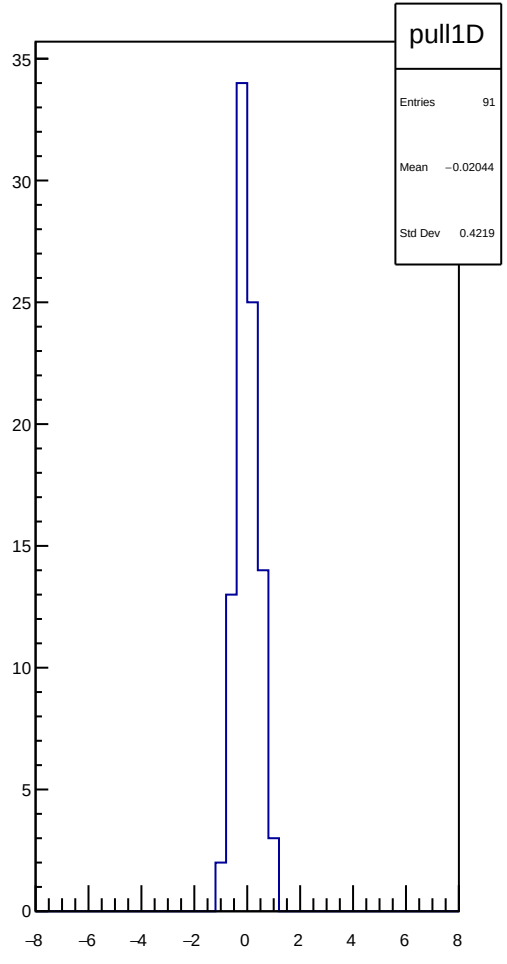

pull1D
Entries 91
Mean 0.0009698
Std Dev 0.4691

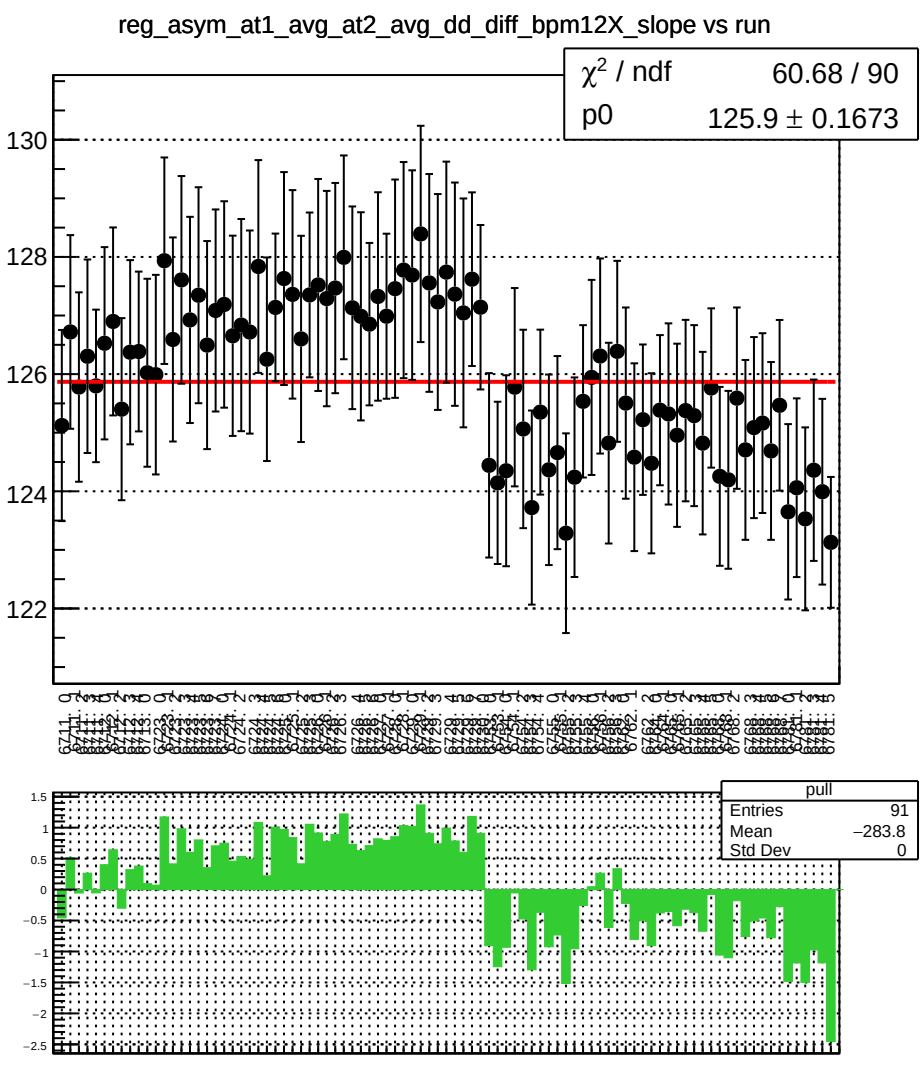

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.8 / 90
p0 −3.22 ± 2.281
pull
Entries 91
Mean −121.1
Std Dev 0
pull1D
Entries 91
Mean 0.01641
Std Dev 0.3891

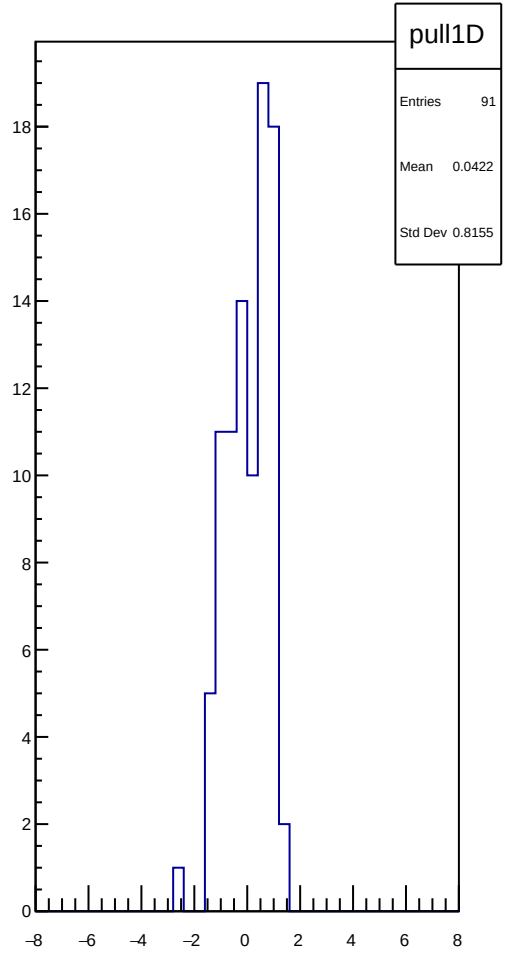

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.1 / 90
p0 −251 ± 3.883
pull
Entries 91
Mean −93.81
Std Dev 0

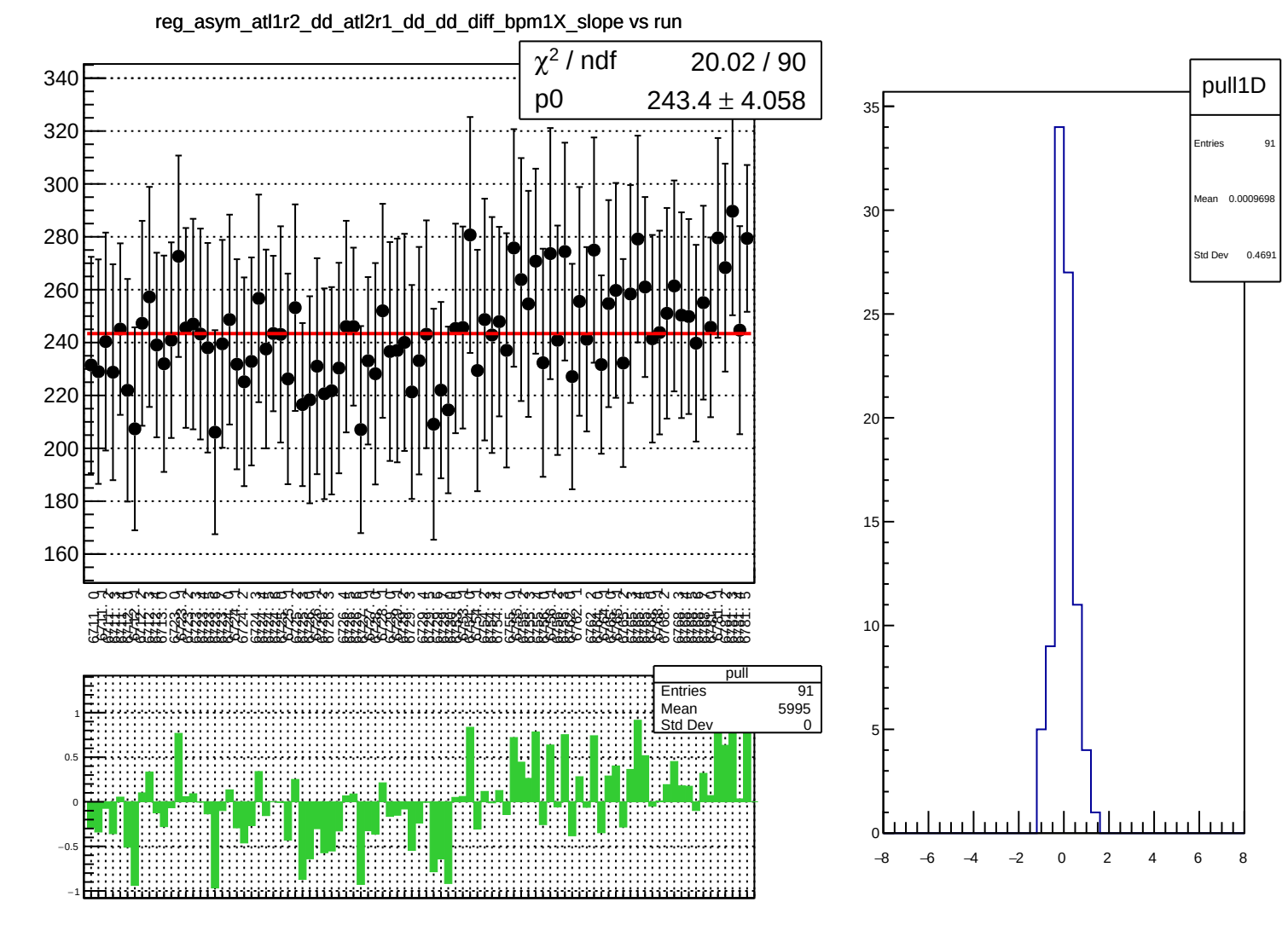

pull1D
Entries 91
Mean 0.003115
Std Dev 0.3936

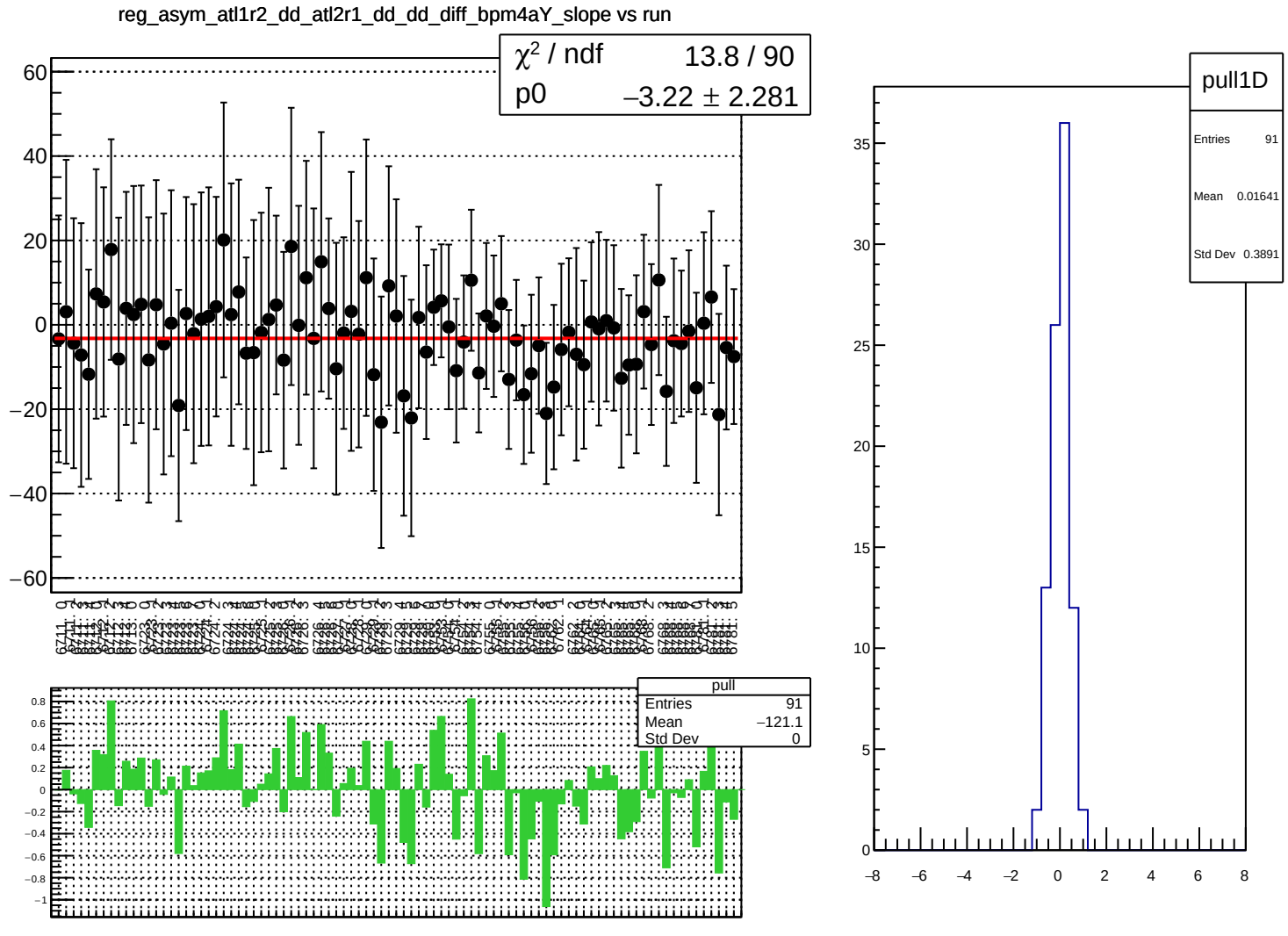

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.24 / 90
p0 −64.53 ± 2.902
pull
Entries 91
Mean −168.6
Std Dev 0

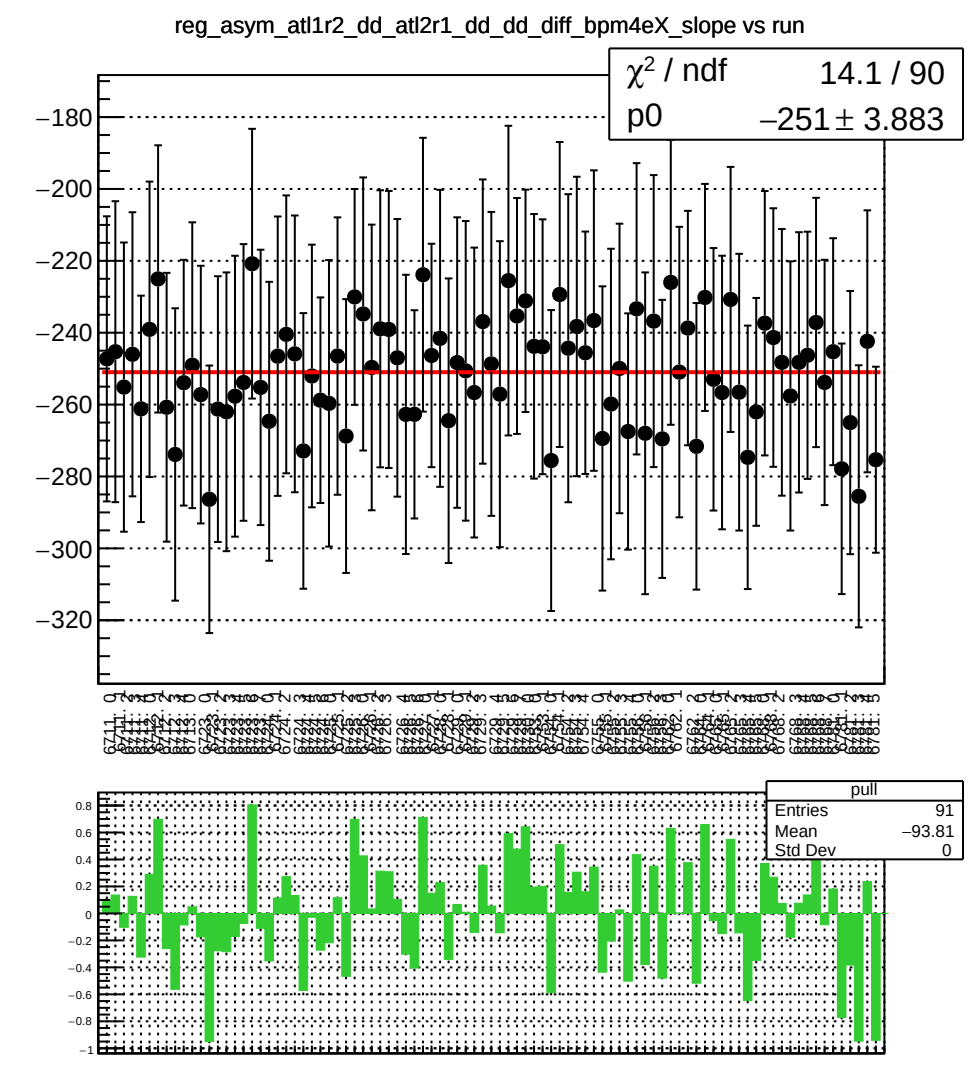

pull1D
Entries 91
Mean −0.02044
Std Dev 0.4219

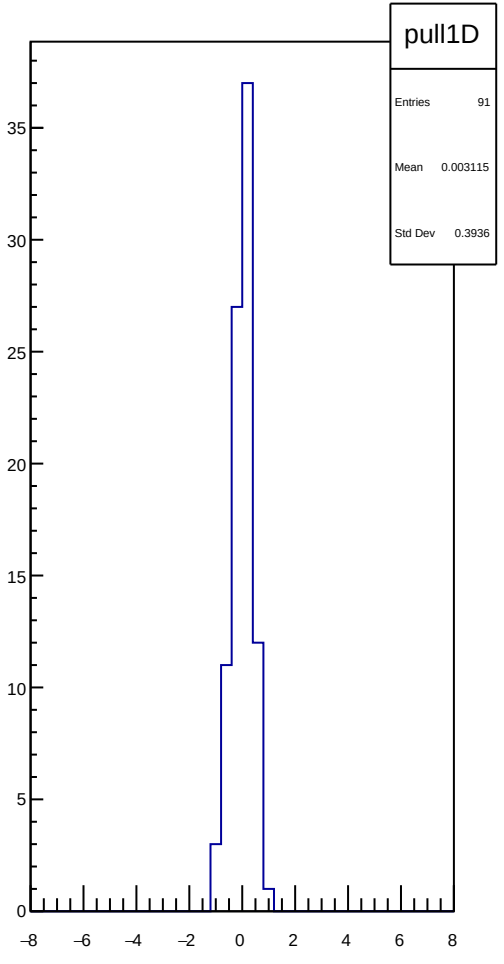

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 60.68 / 90
p0 125.9 ± 0.1673
130
128
126
124
122
pull
Entries 91
Mean −283.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

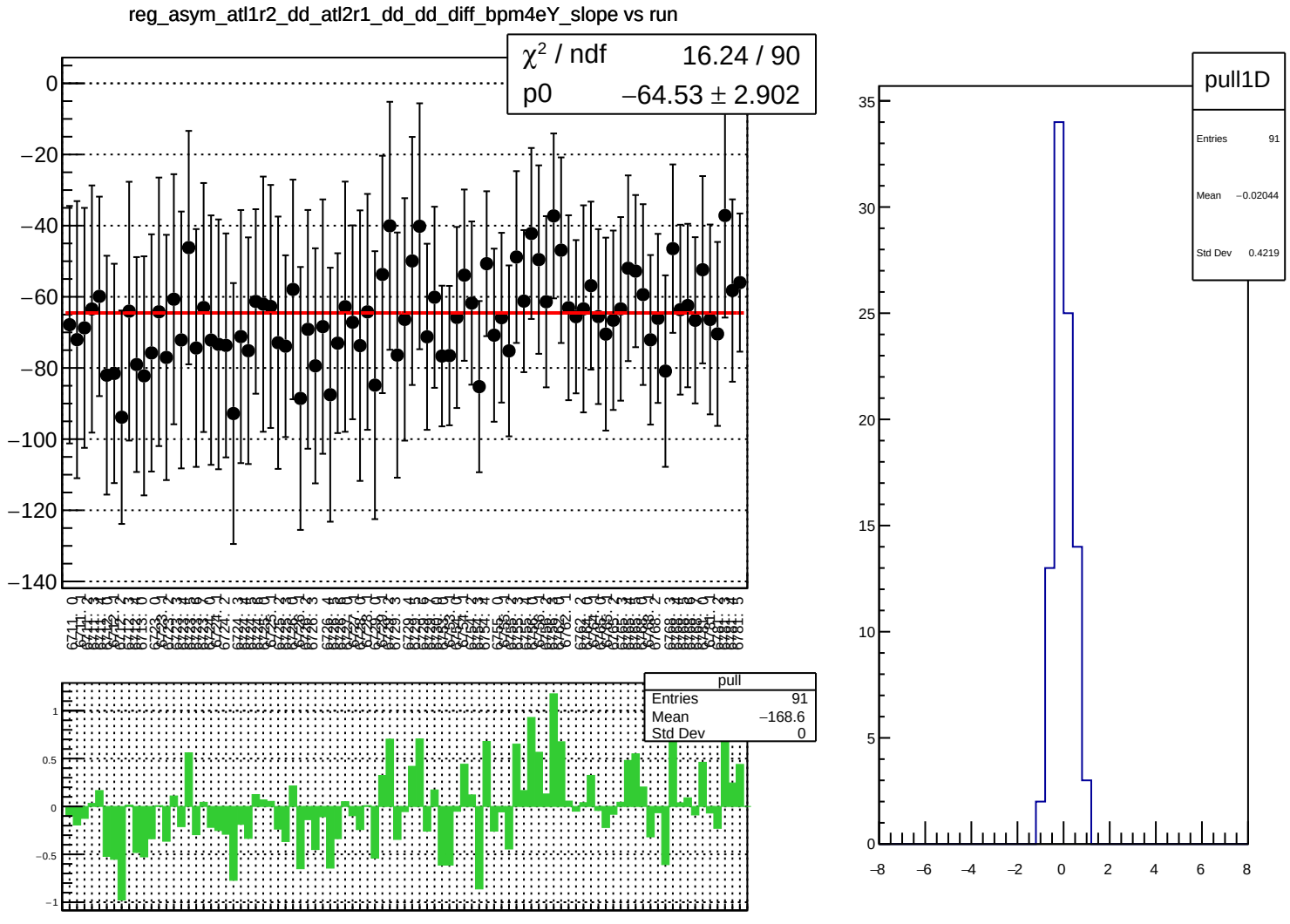

pull1D
Entries 91
Mean 0.0422
Std Dev 0.8155
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

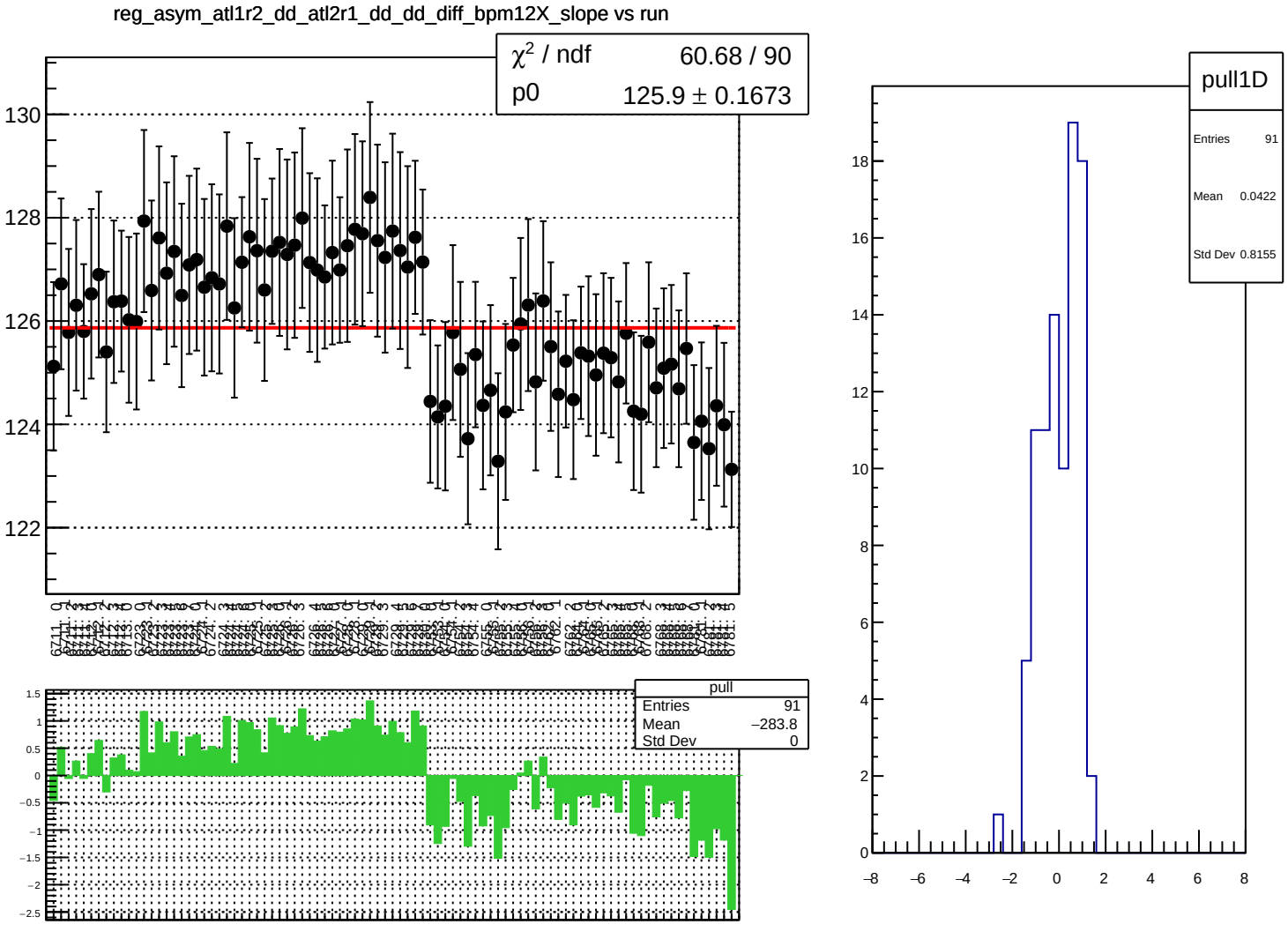

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 20.02 / 90
p0 243.4 ± 4.058
pull
Entries 91
Mean 5995
Std Dev 0
pull1D
Entries 91
Mean 0.0009698
Std Dev 0.4691

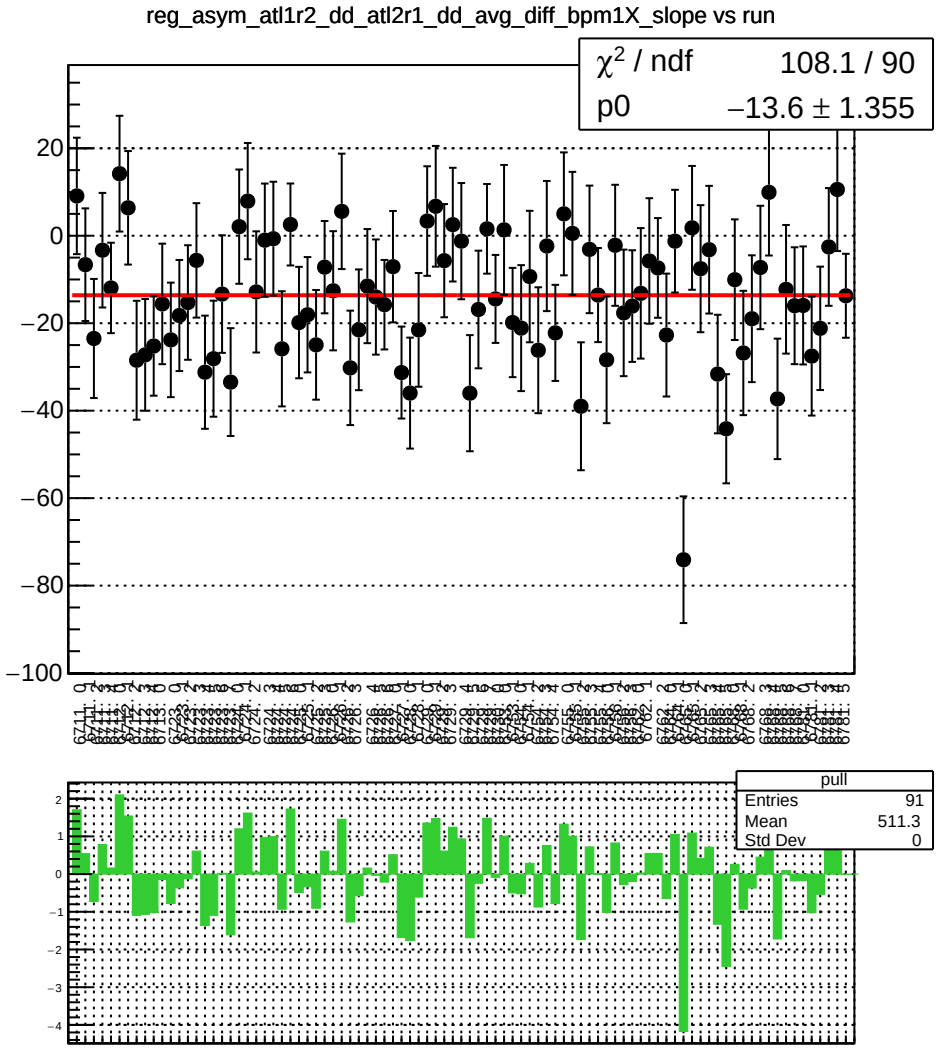

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.8 / 90
p0 −3.22 ± 2.281
pull
Entries 91
Mean −121.1
Std Dev 0
pull1D
Entries 91
Mean 0.01641
Std Dev 0.3891

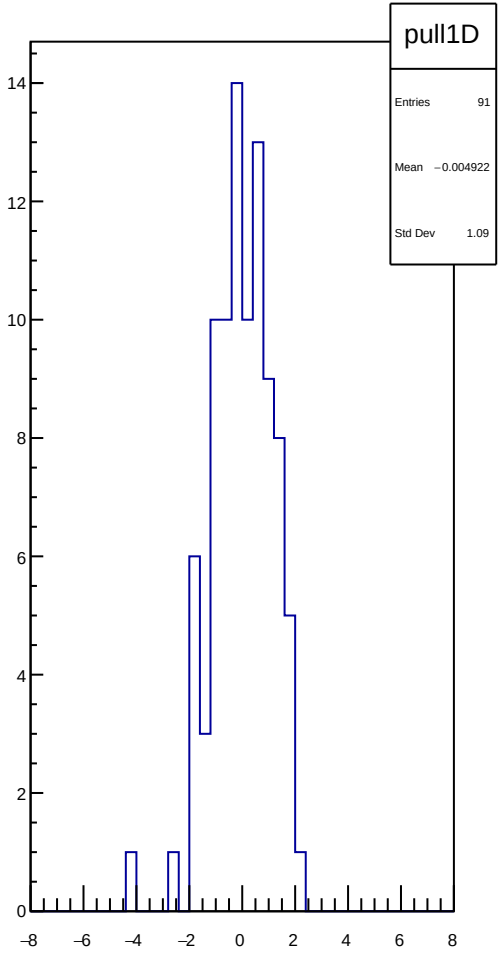

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.1 / 90
p0 −251 ± 3.883
pull
Entries 91
Mean −93.81
Std Dev 0

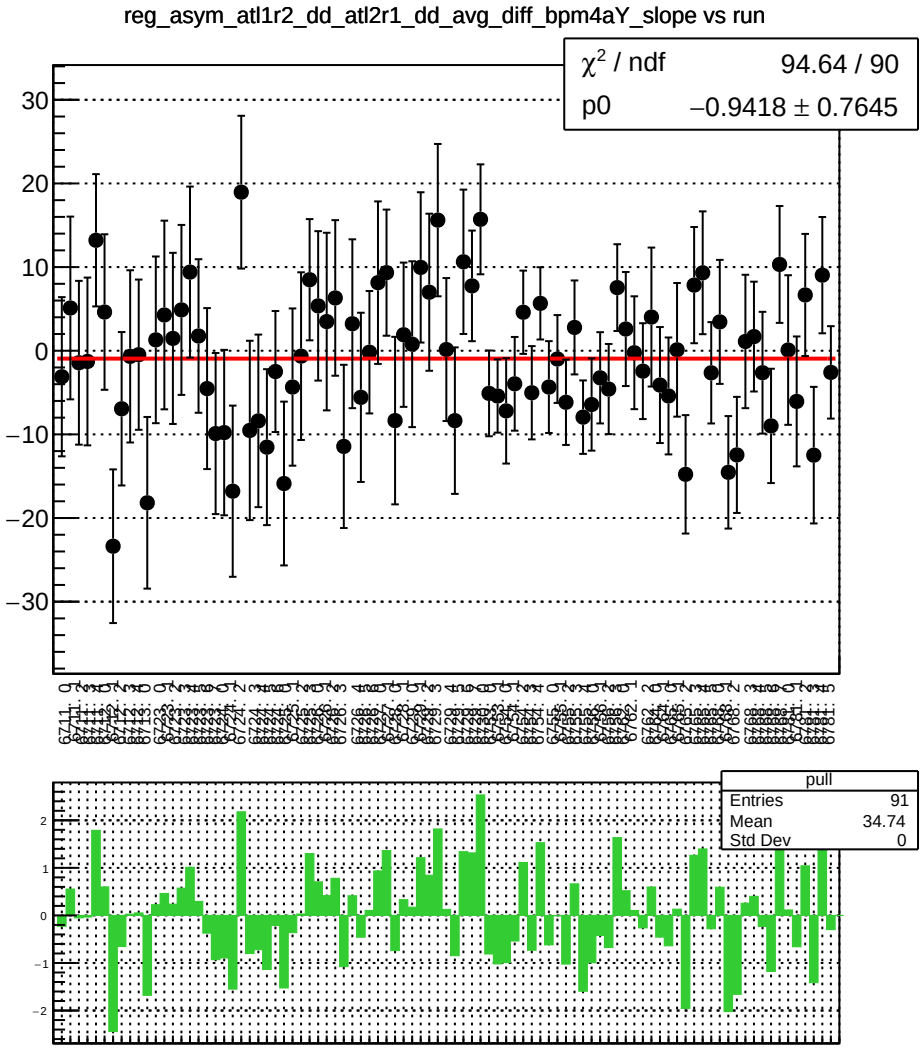

pull1D
Entries 91
Mean 0.003115
Std Dev 0.3936

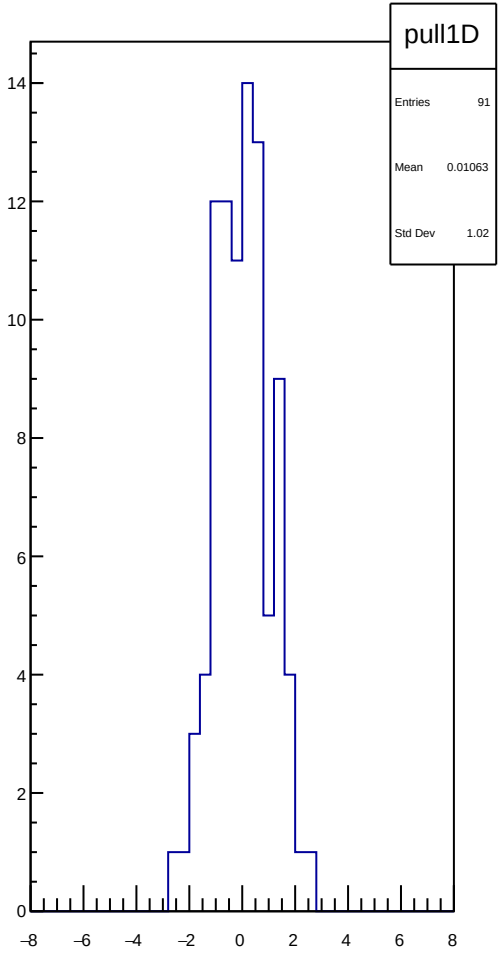

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.24 / 90
p0 −64.53 ± 2.902
pull
Entries 91
Mean −168.6
Std Dev 0
pull1D
Entries 91
Mean −0.02044
Std Dev 0.4219

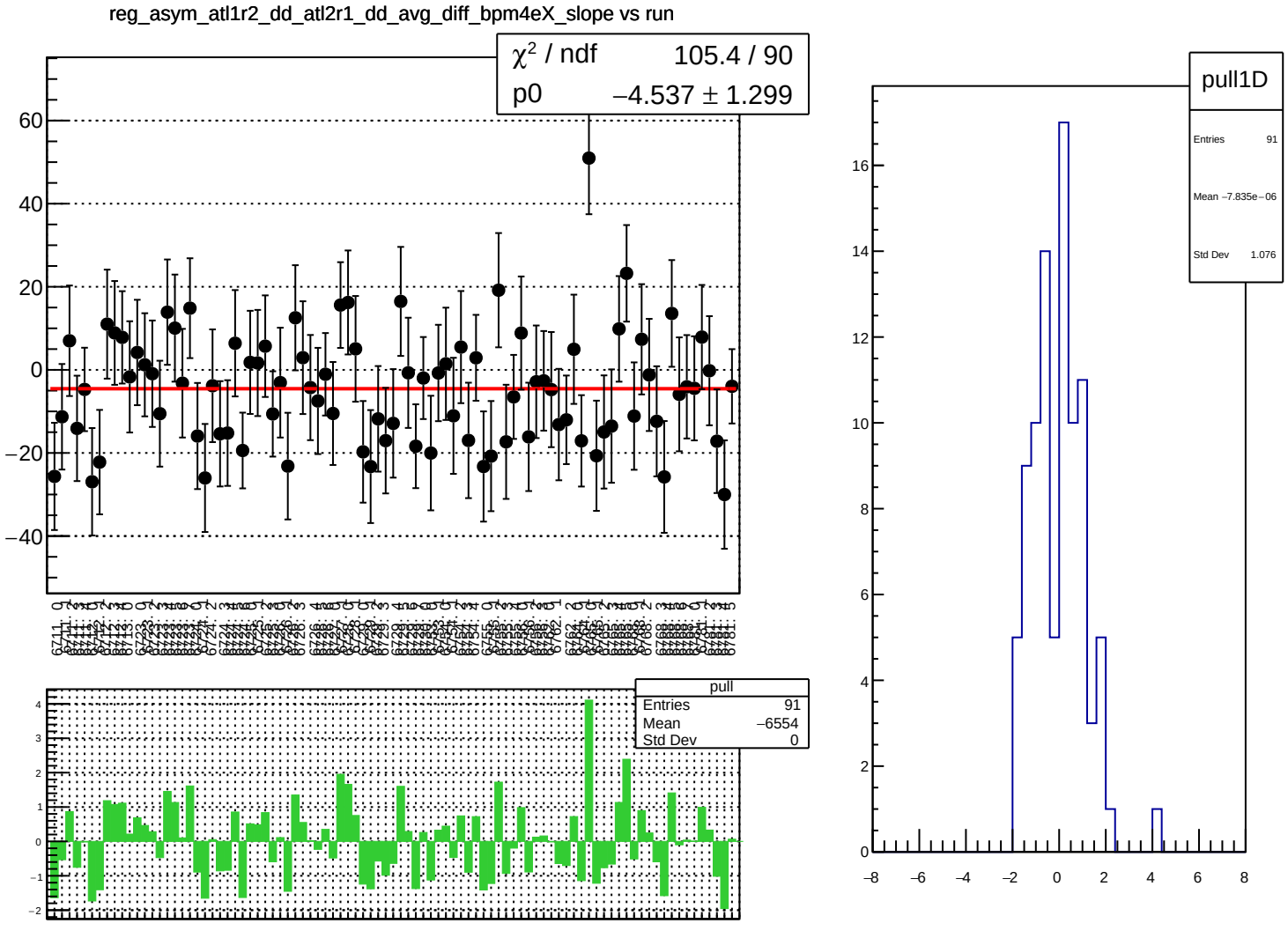

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 60.68 / 90
p0 125.9 ± 0.1673
pull
Entries 91
Mean −283.8
Std Dev 0
pull1D
Entries 91
Mean 0.0422
Std Dev 0.8155

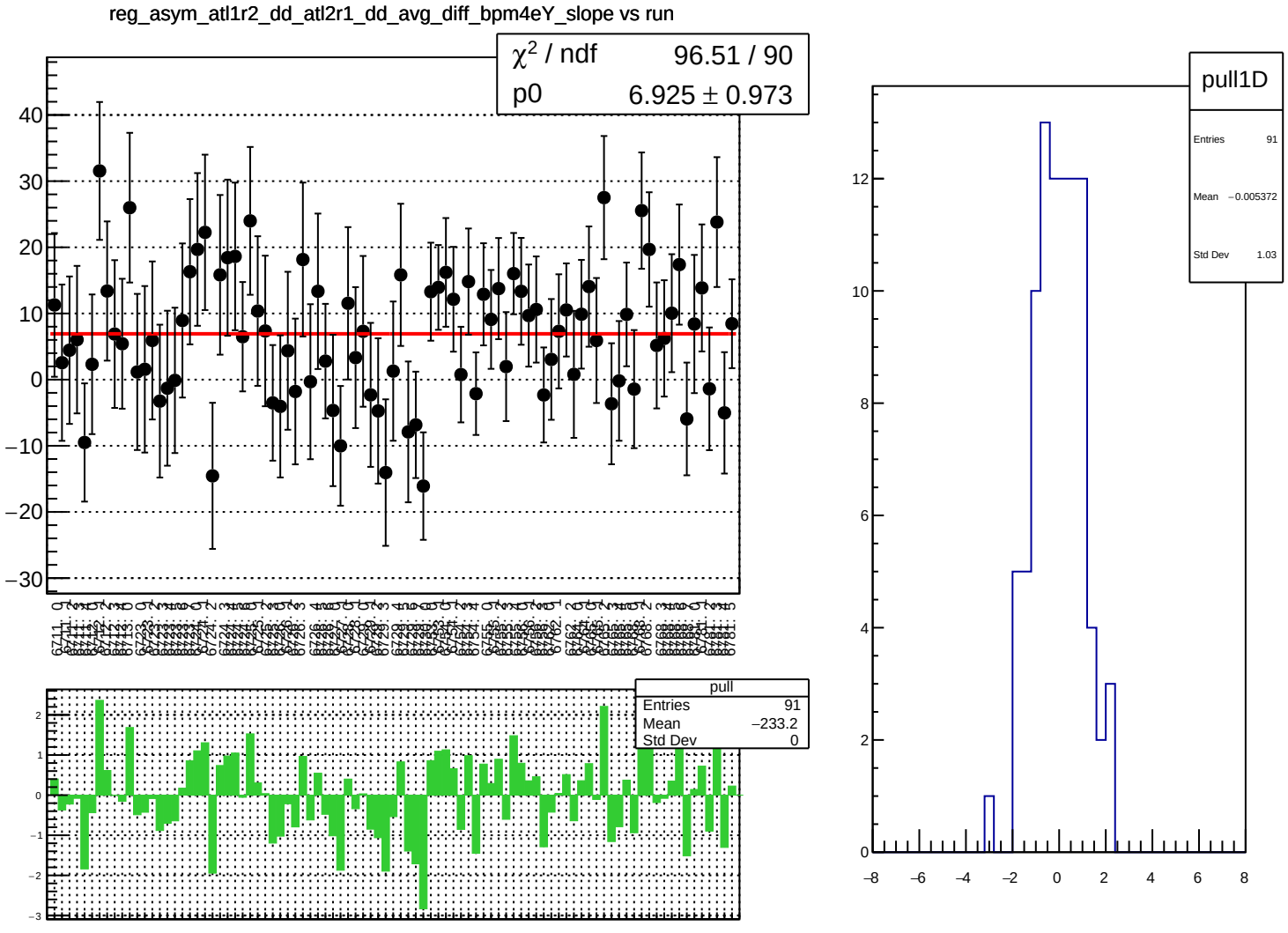

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 108.1 / 90
p0 −13.6 ± 1.355
pull
Entries 91
Mean 511.3
Std Dev 0

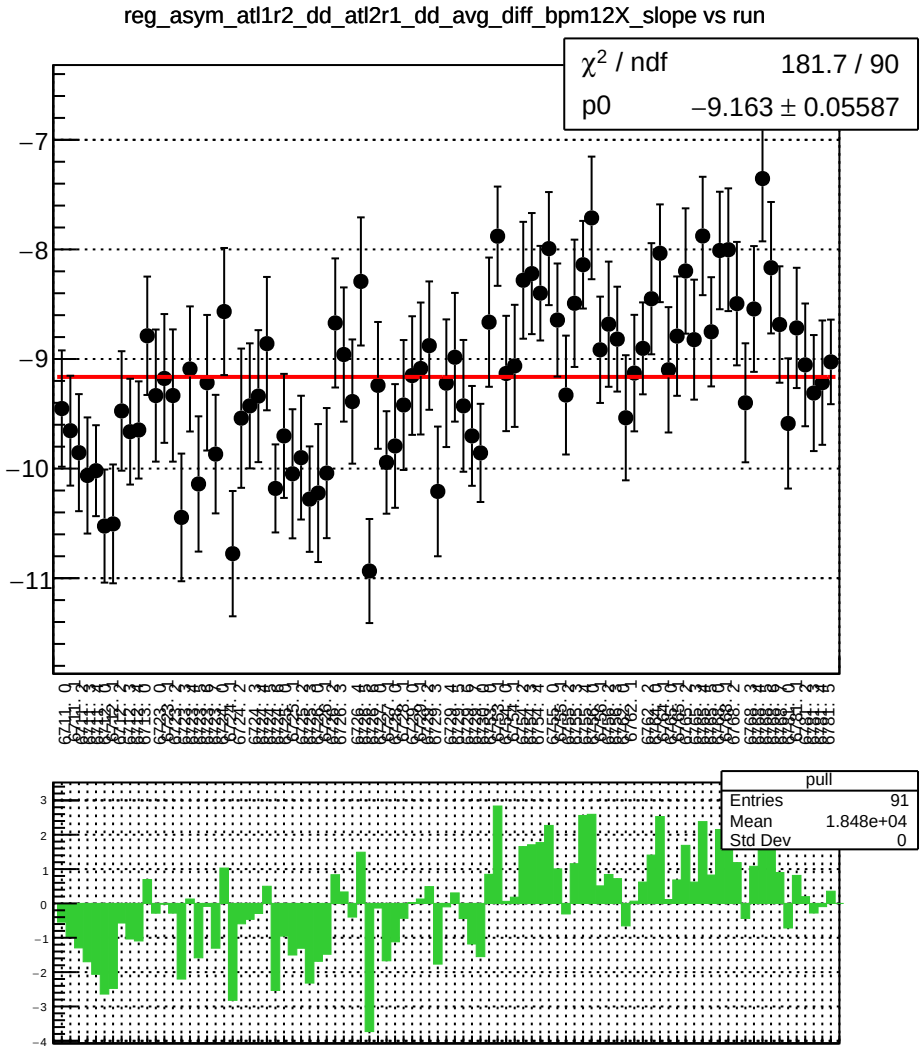

pull1D
Entries 91
Mean −0.004922
Std Dev 1.09

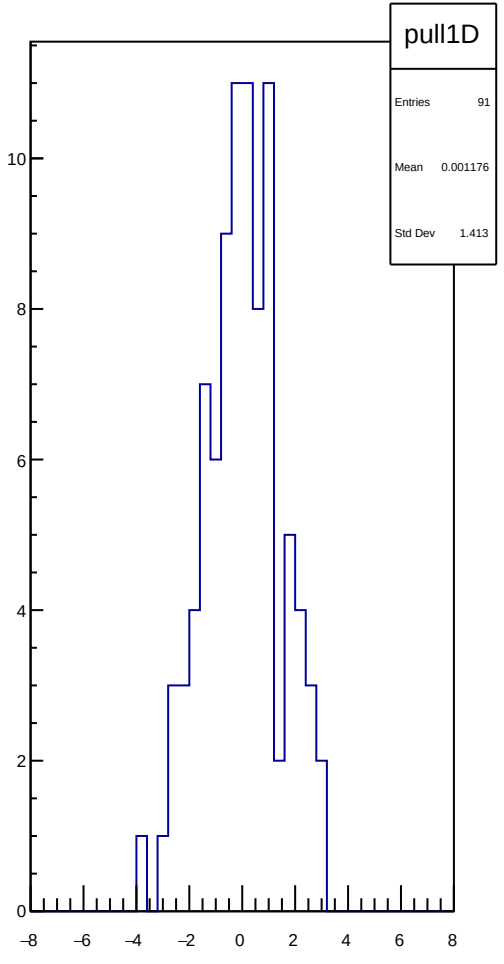

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 94.64 / 90
p0 −0.9418 ± 0.7645
pull
Entries 91
Mean 34.74
Std Dev 0

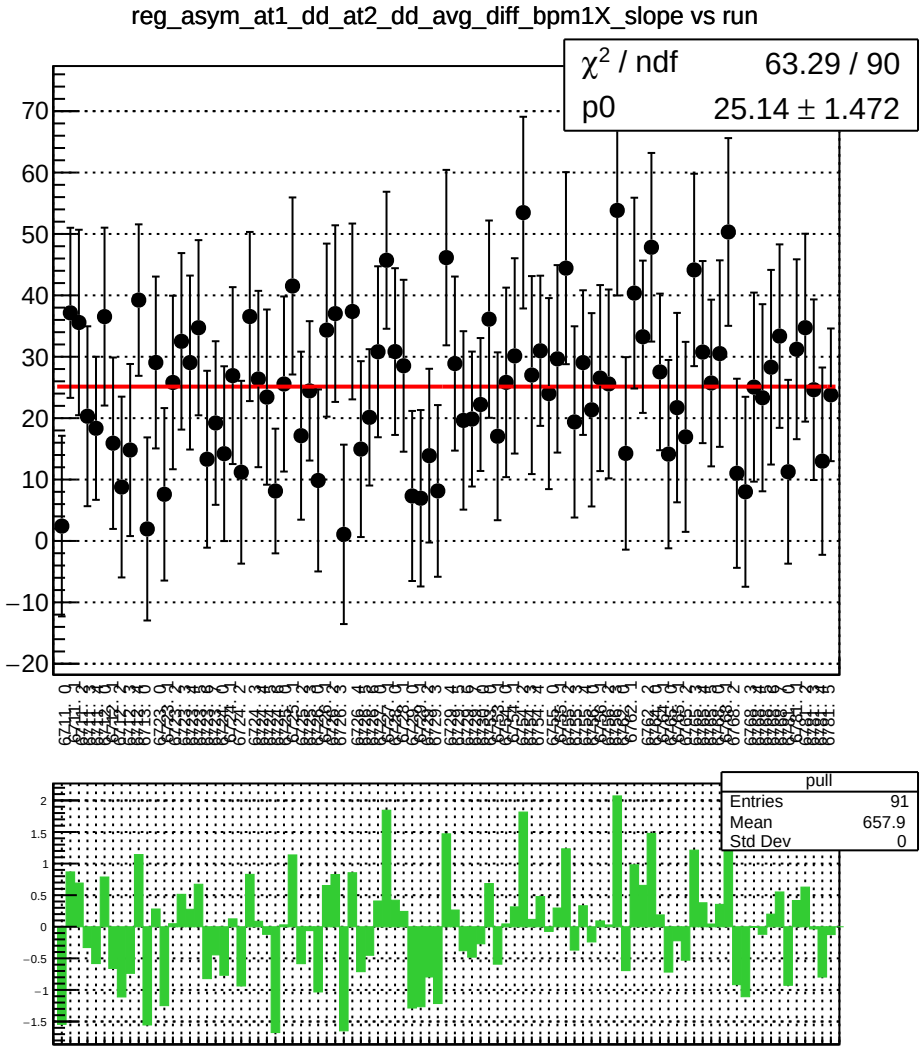

pull1D
Entries 91
Mean 0.01063
Std Dev 1.02

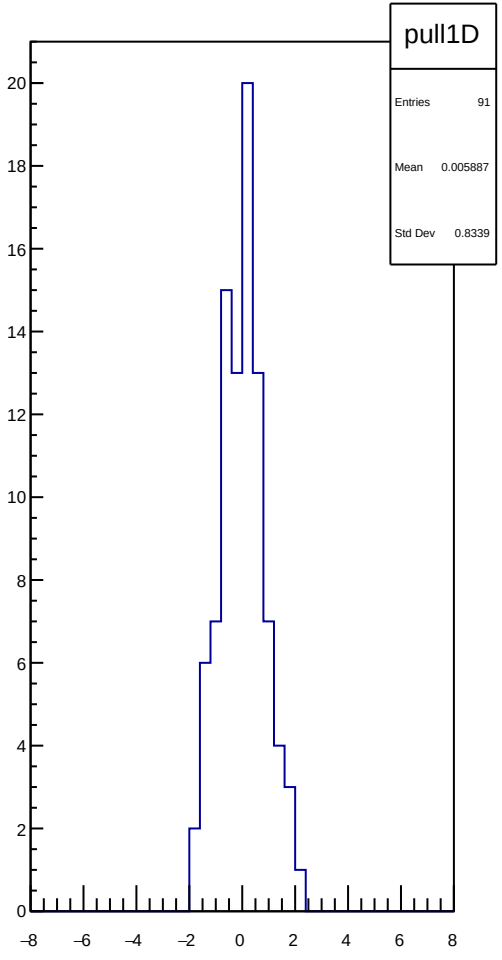

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 105.4 / 90
p0 −4.537 ± 1.299
pull
Entries 91
Mean −6554
Std Dev 0
pull1D
Entries 91
Mean −7.835e−06
Std Dev 1.076

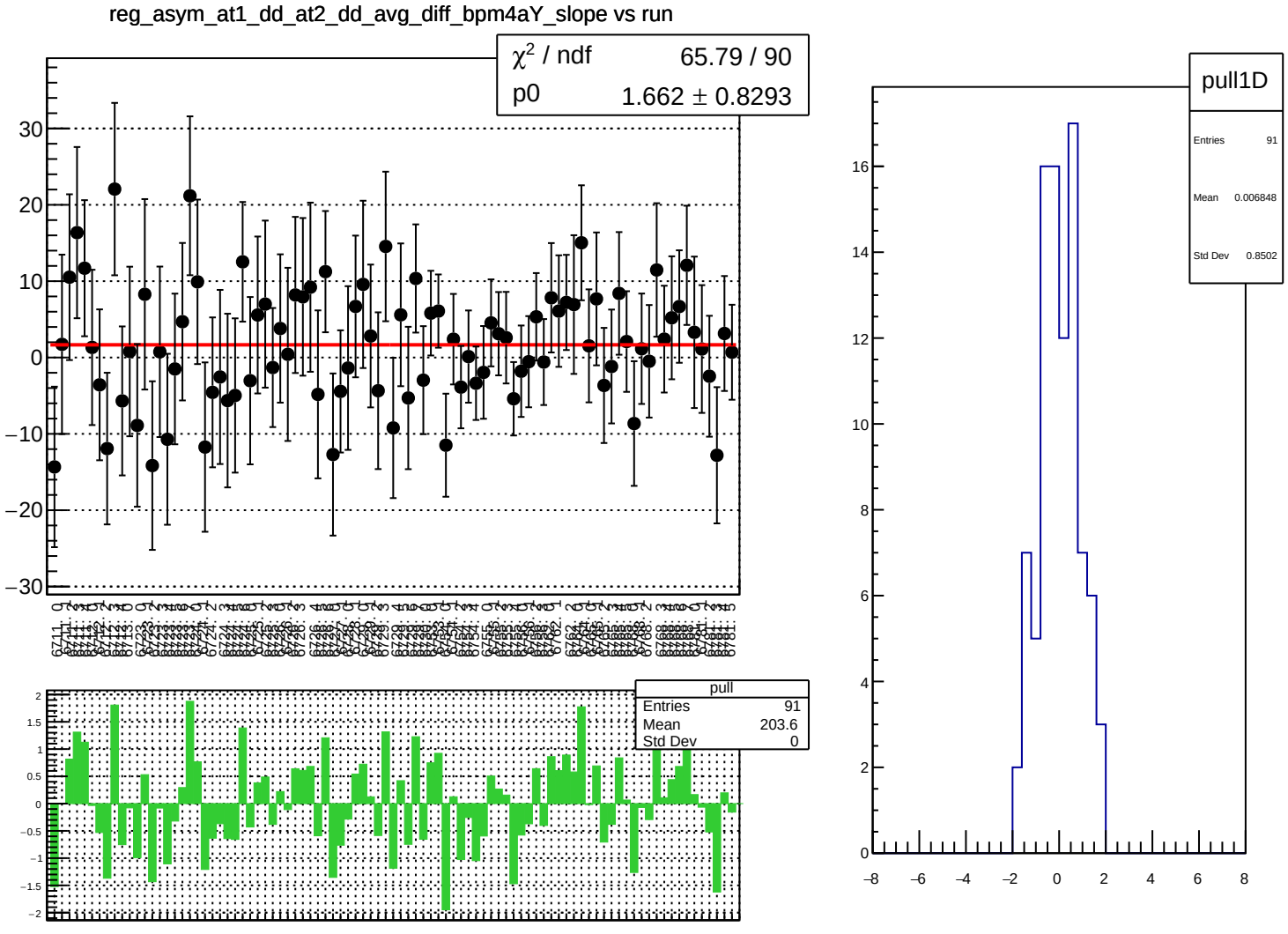

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 96.51 / 90
p0 6.925 ± 0.973
pull
Entries 91
Mean −233.2
Std Dev 0
pull1D
Entries 91
Mean −0.005372
Std Dev 1.03

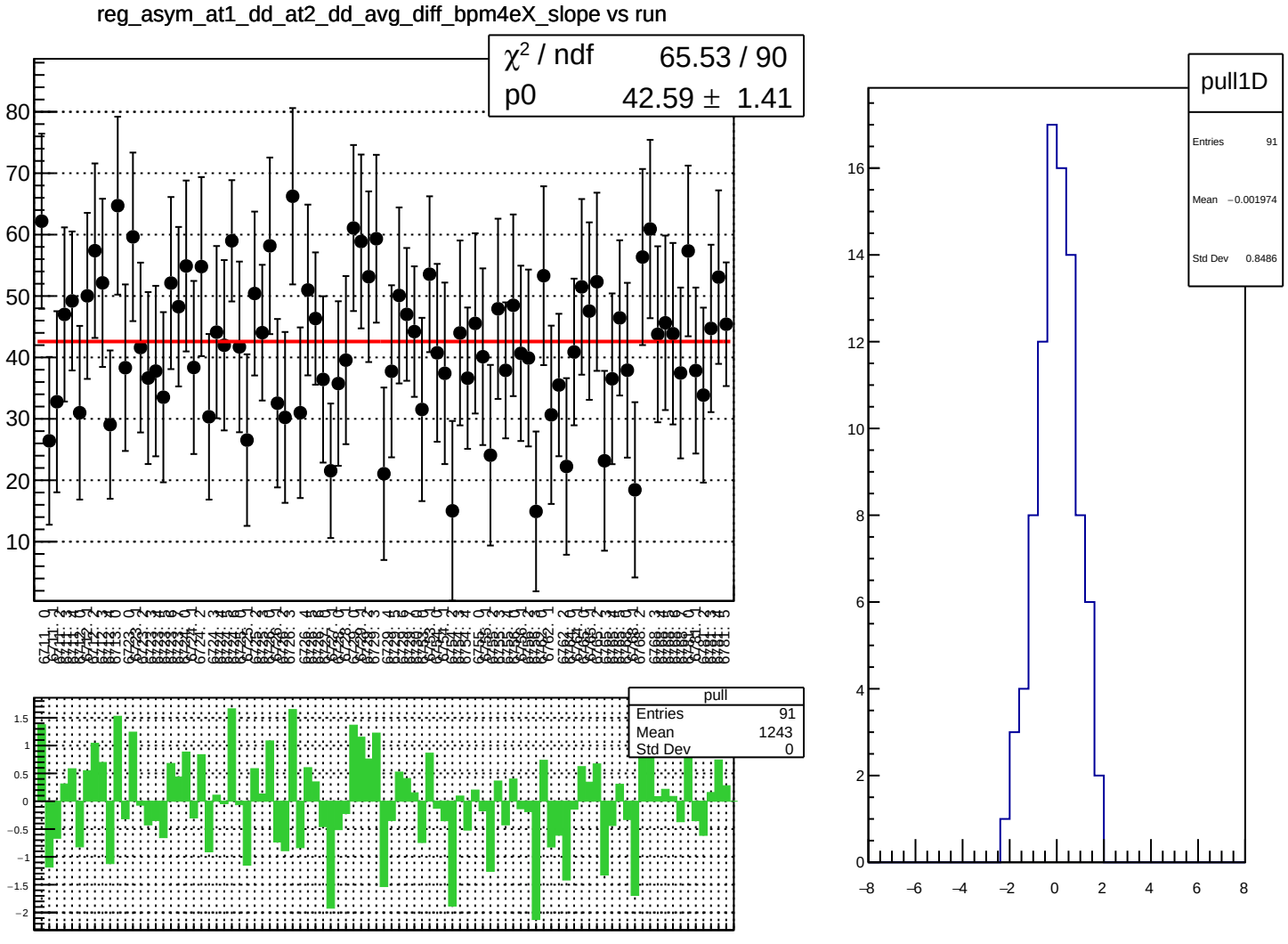

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 181.7 / 90
p0 −9.163 ± 0.05587
pull
Entries 91
Mean 1.848e+04
Std Dev 0

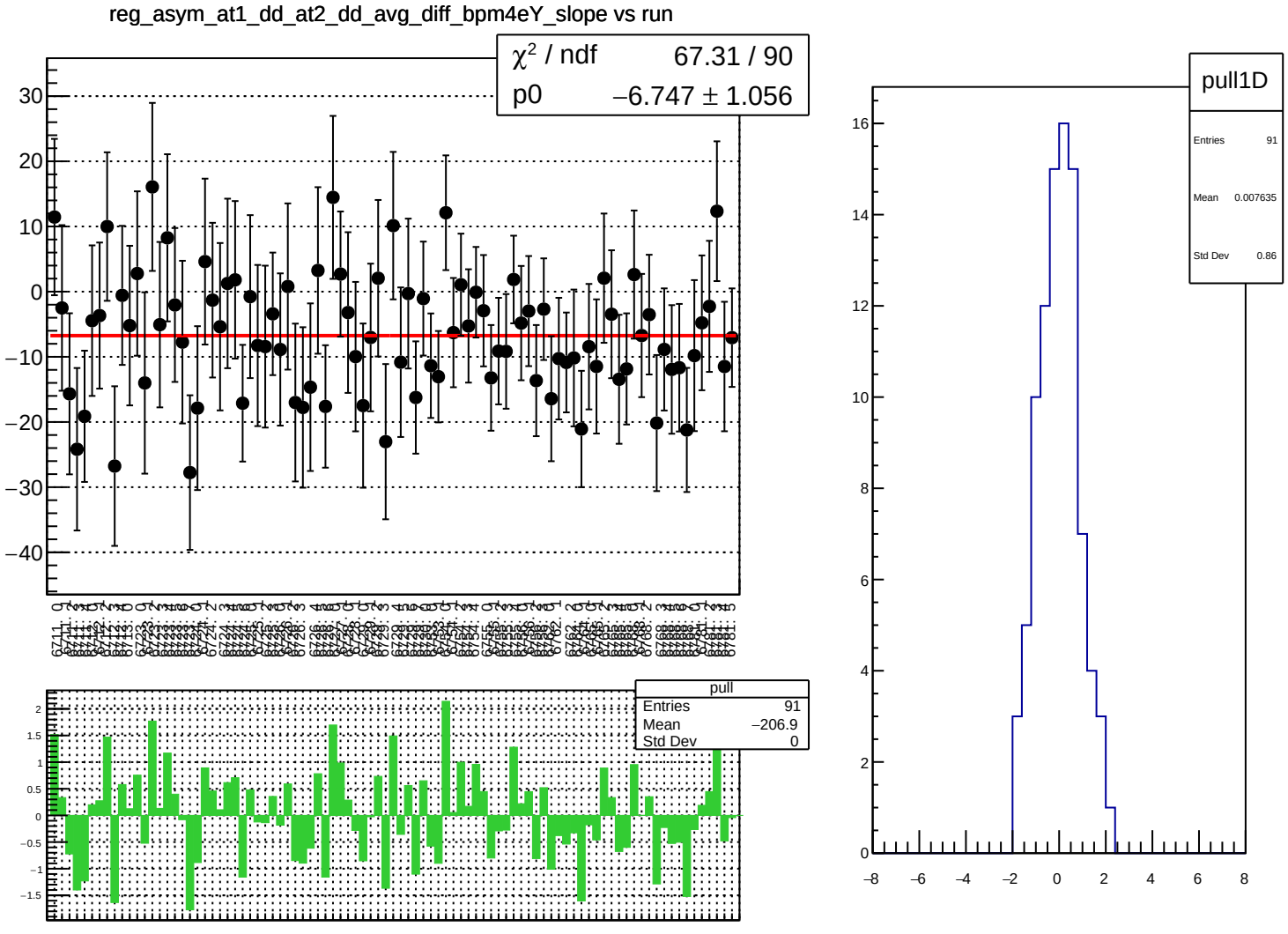

pull1D
Entries 91
Mean 0.001176
Std Dev 1.413

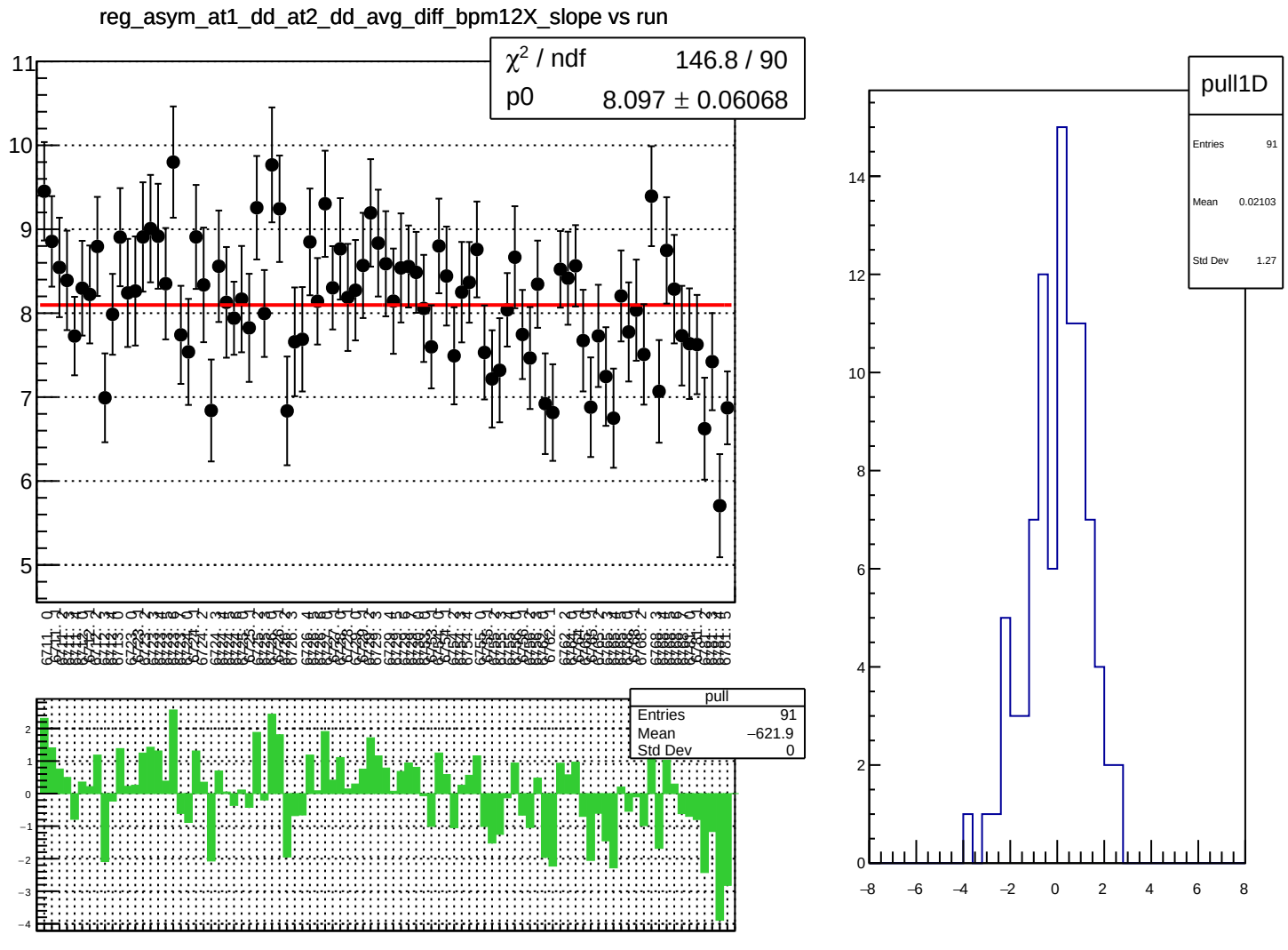

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ^2 / ndf 63.29 / 90
p0 25.14 ± 1.472
pull
Entries 91
Mean 657.9
Std Dev 0

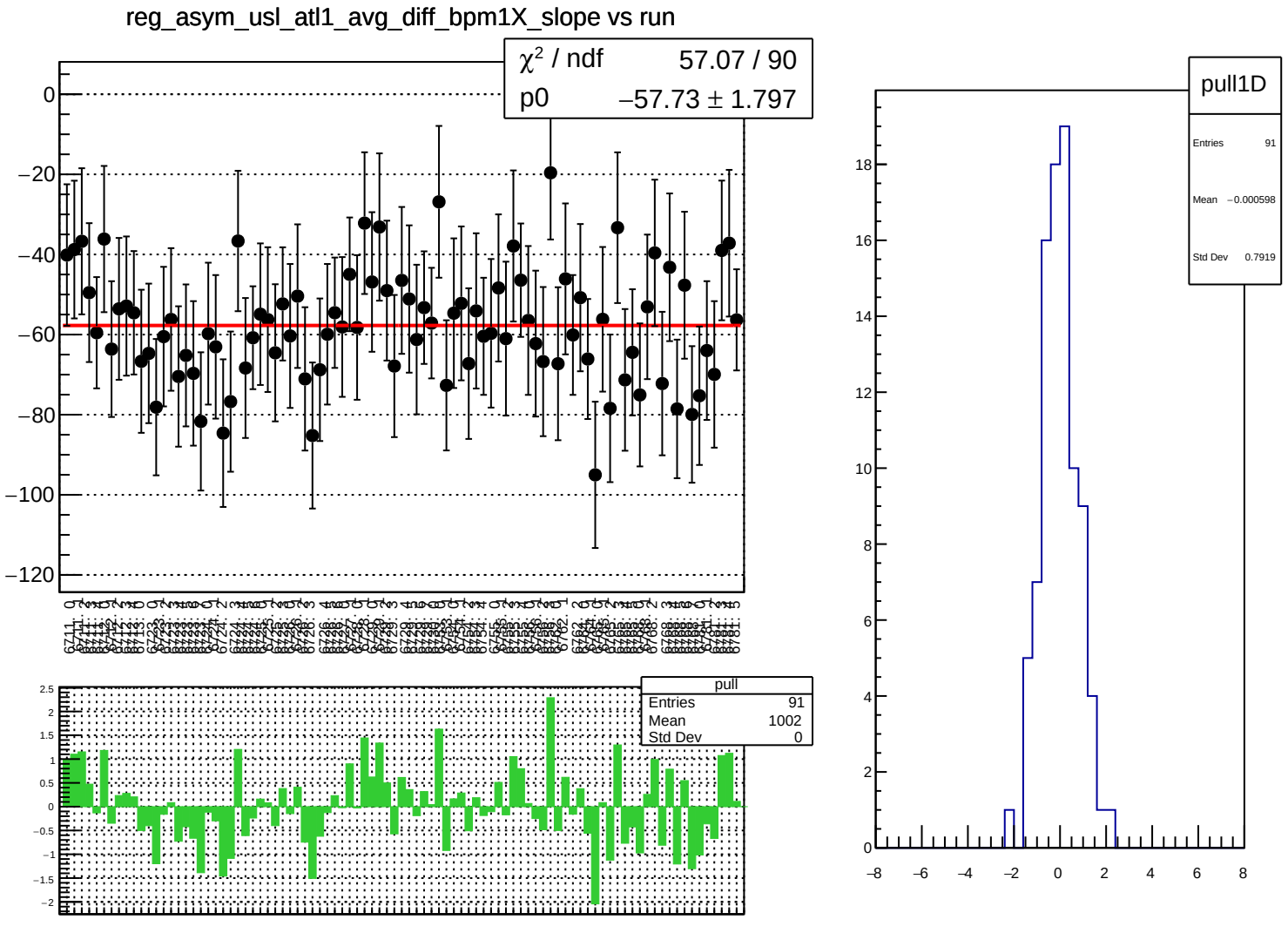

pull1D
Entries 91
Mean 0.005887
Std Dev 0.8339

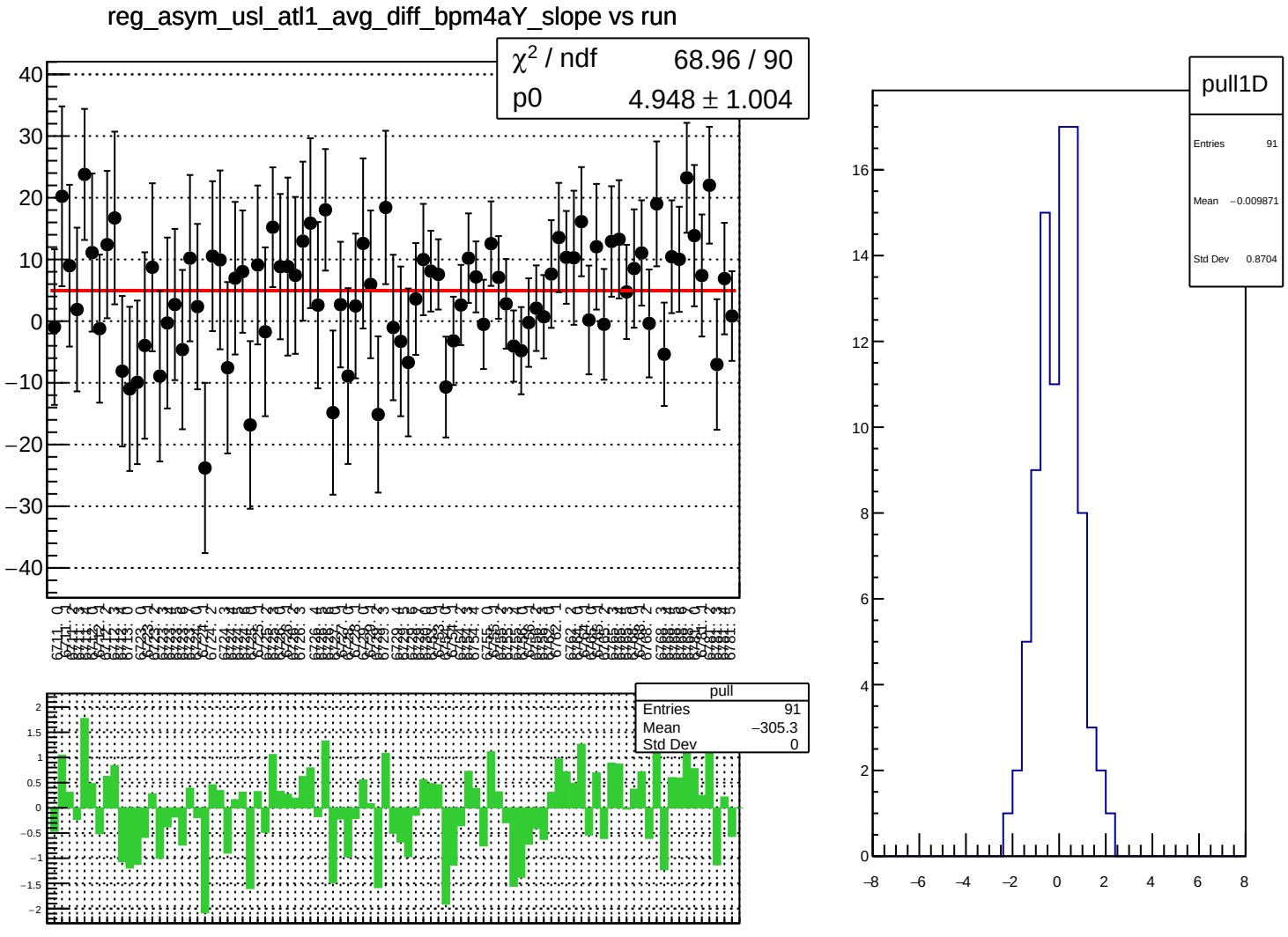

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 65.79 / 90
p0 1.662 ± 0.8293
pull
Entries 91
Mean 203.6
Std Dev 0
pull1D
Entries 91
Mean 0.006848
Std Dev 0.8502

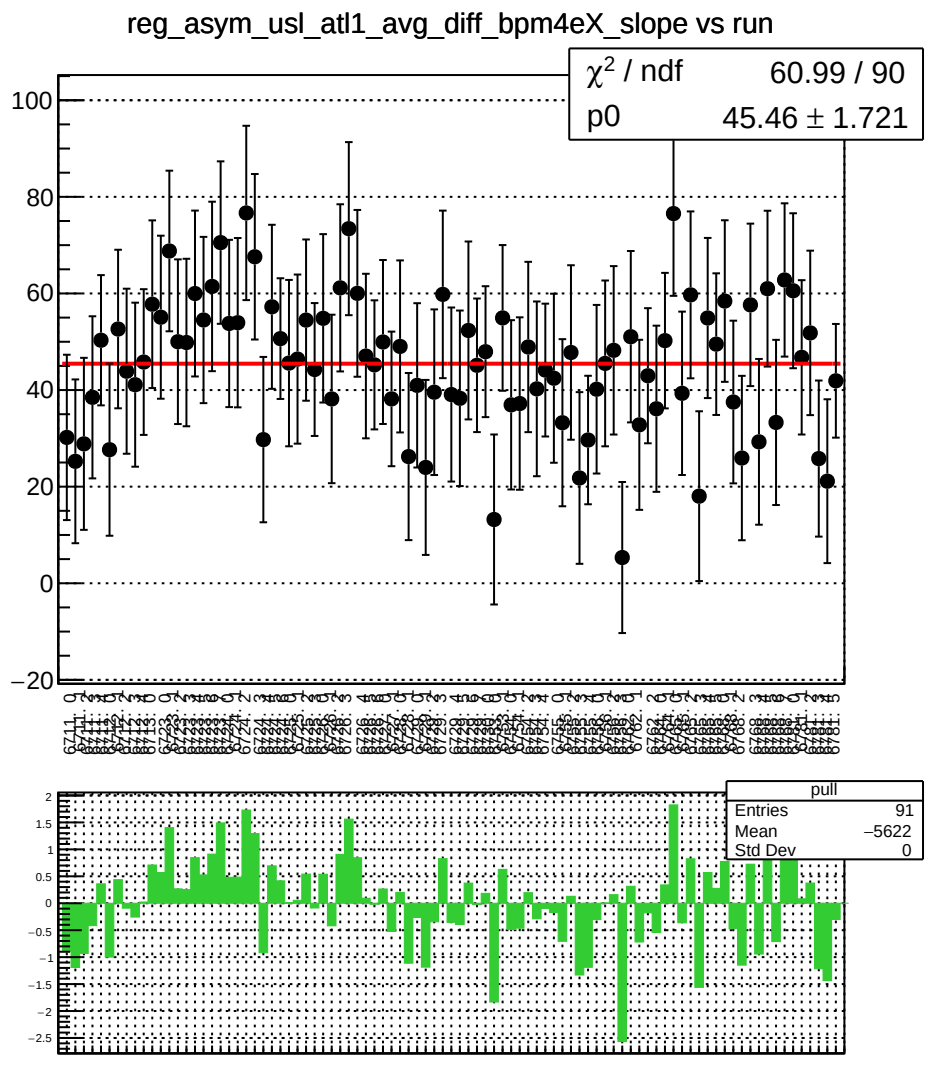

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 65.53 / 90
p0 42.59 ± 1.41
pull
Entries 91
Mean 1243
Std Dev 0
pull1D
Entries 91
Mean −0.001974
Std Dev 0.8486

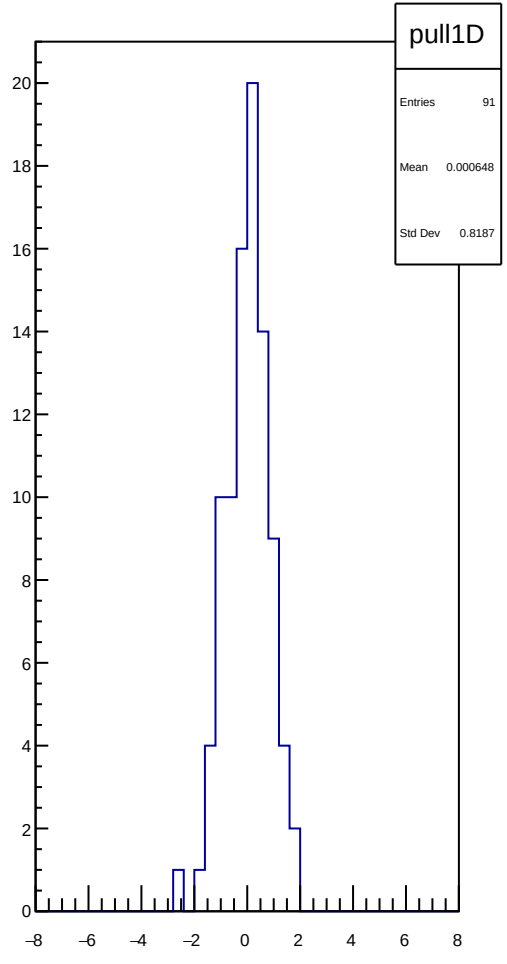

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 67.31 / 90
p0 −6.747 ± 1.056
pull
Entries 91
Mean −206.9
Std Dev 0
pull1D
Entries 91
Mean 0.007635
Std Dev 0.86

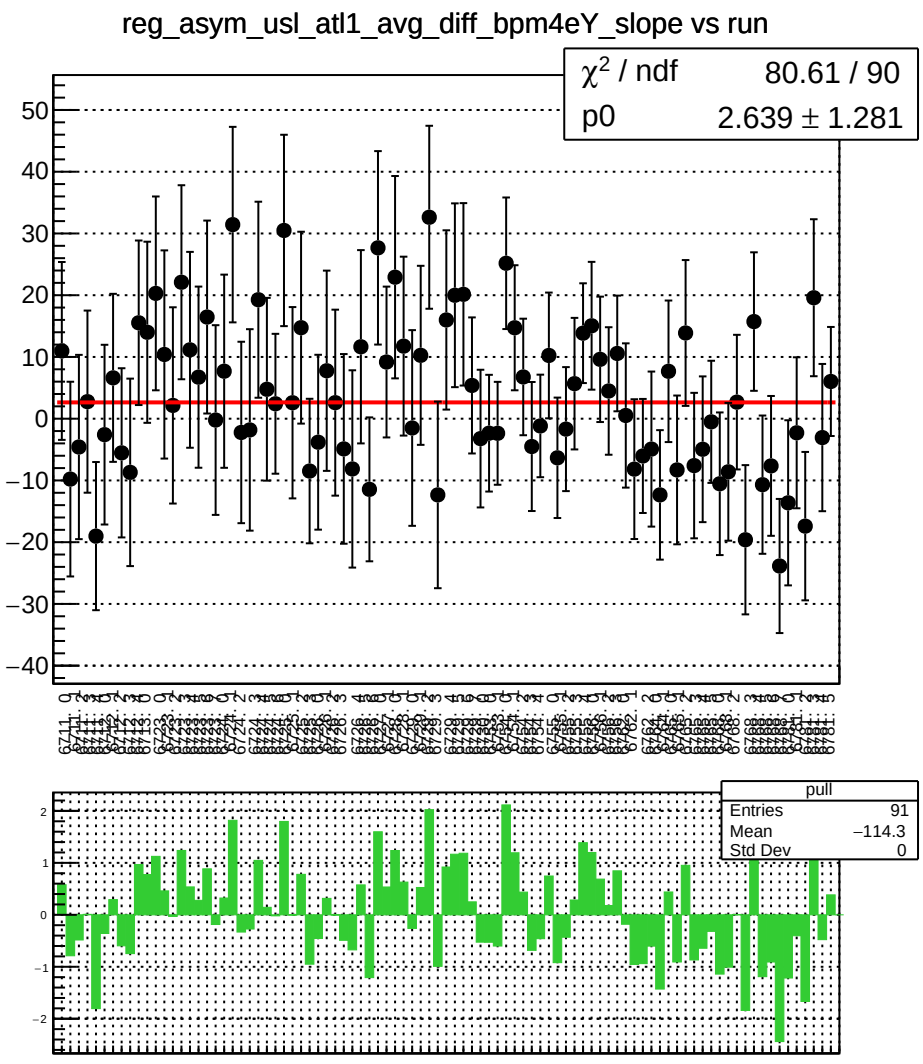

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 146.8 / 90
p0 8.097 ± 0.06068
pull
Entries 91
Mean −621.9
Std Dev 0
pull1D
Entries 91
Mean 0.02103
Std Dev 1.27

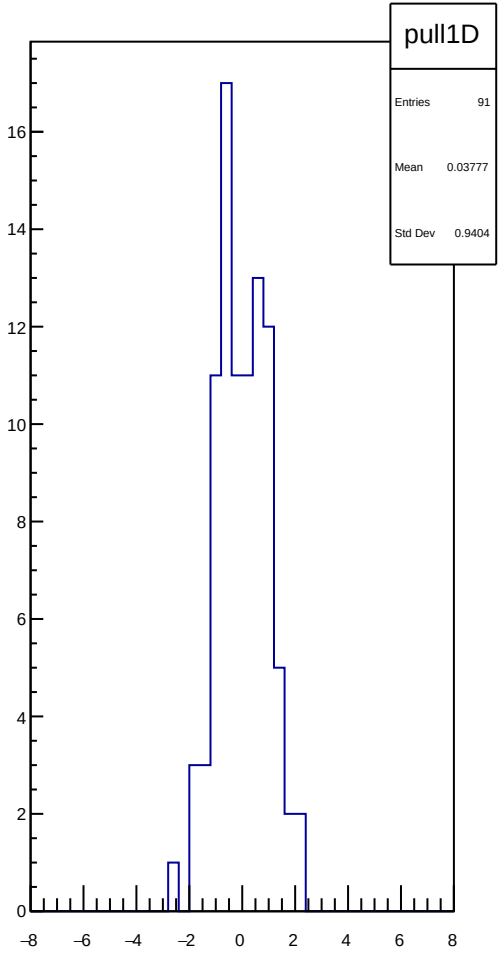

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 57.07 / 90
p0 −57.73 ± 1.797
pull
Entries 91
Mean 1002
Std Dev 0
pull1D
Entries 91
Mean −0.000598
Std Dev 0.7919

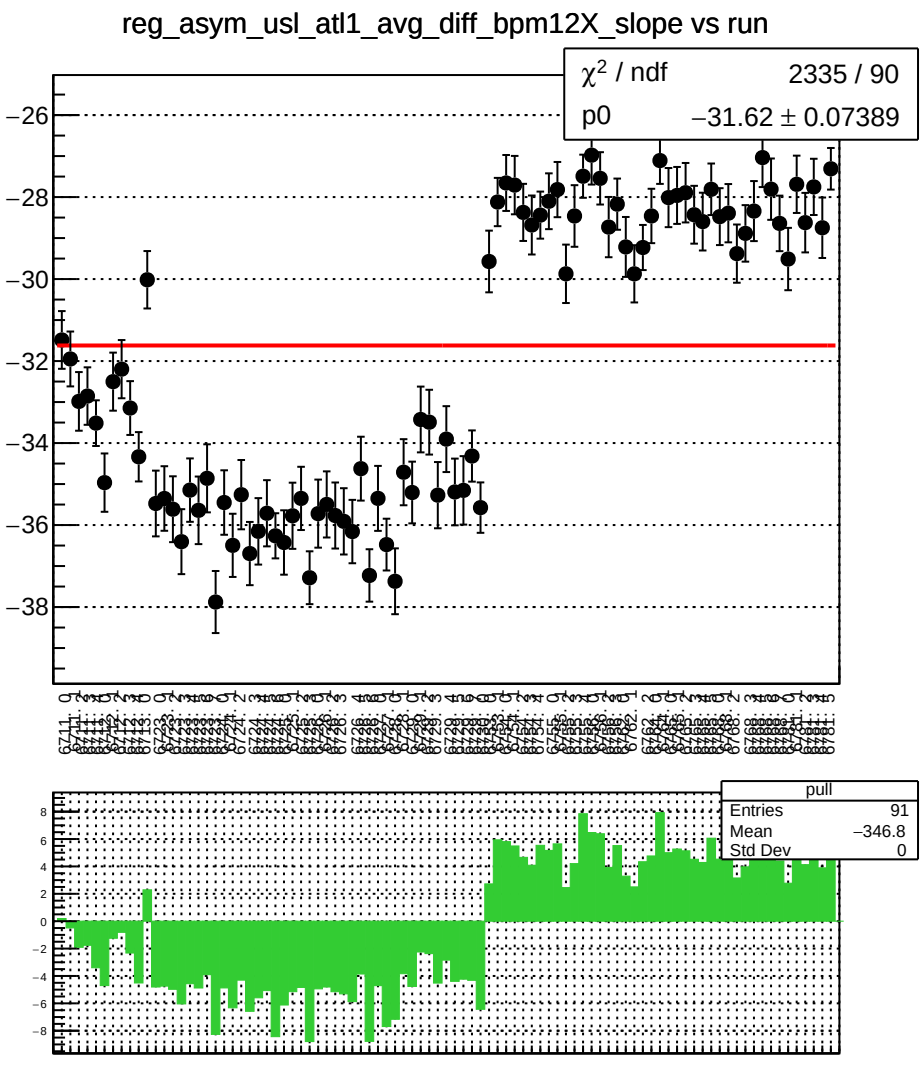

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 68.96 / 90
p0 4.948 ± 1.004
pull
Entries 91
Mean −305.3
Std Dev 0
pull1D
Entries 91
Mean −0.009871
Std Dev 0.8704

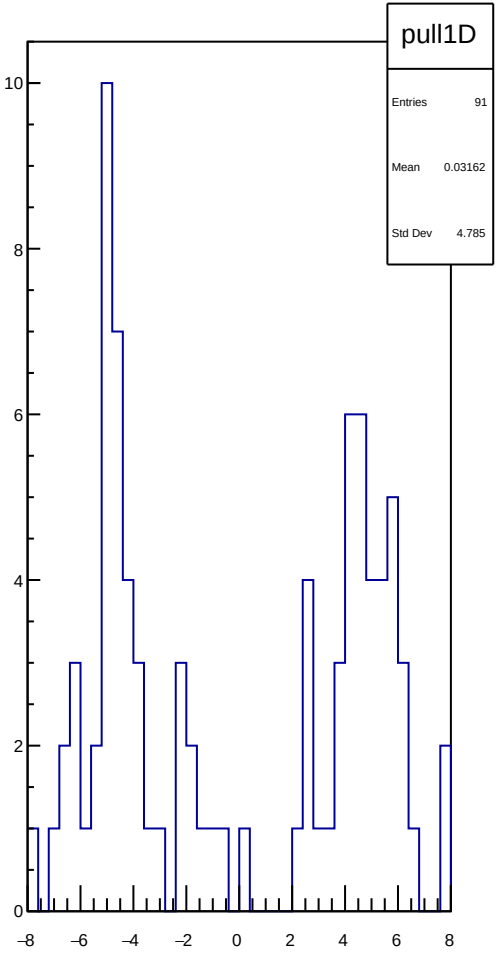

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.99 / 90
p0 45.46 ± 1.721
pull
Entries 91
Mean −5622
Std Dev 0

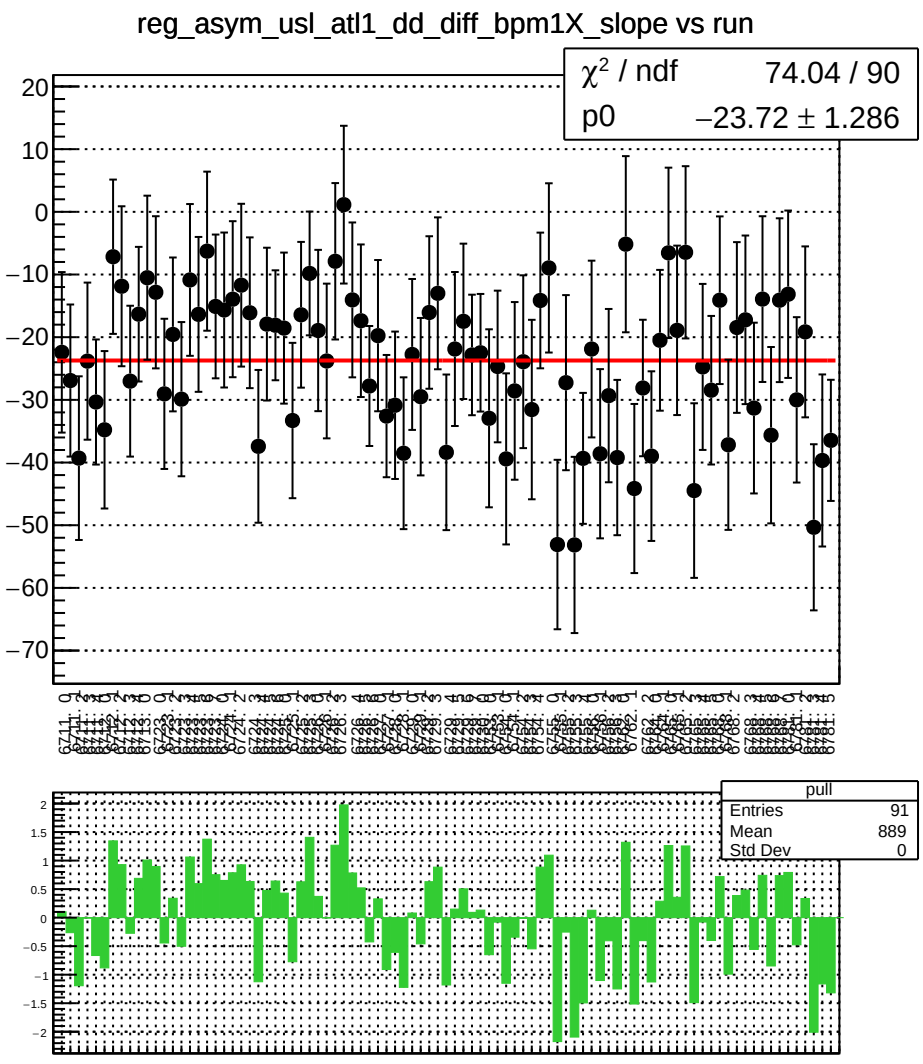

pull1D
Entries 91
Mean 0.000648
Std Dev 0.8187

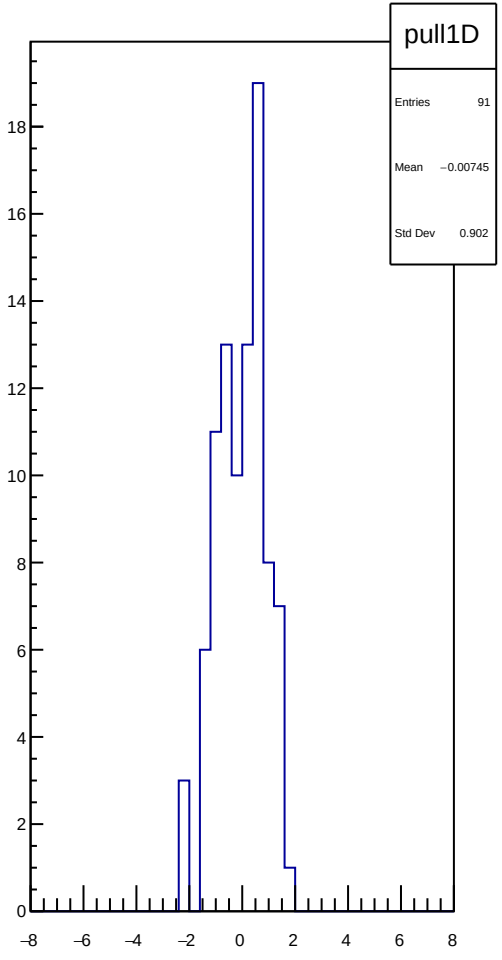

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 80.61 / 90
p0 2.639 ± 1.281
pull
Entries 91
Mean −114.3
Std Dev 0

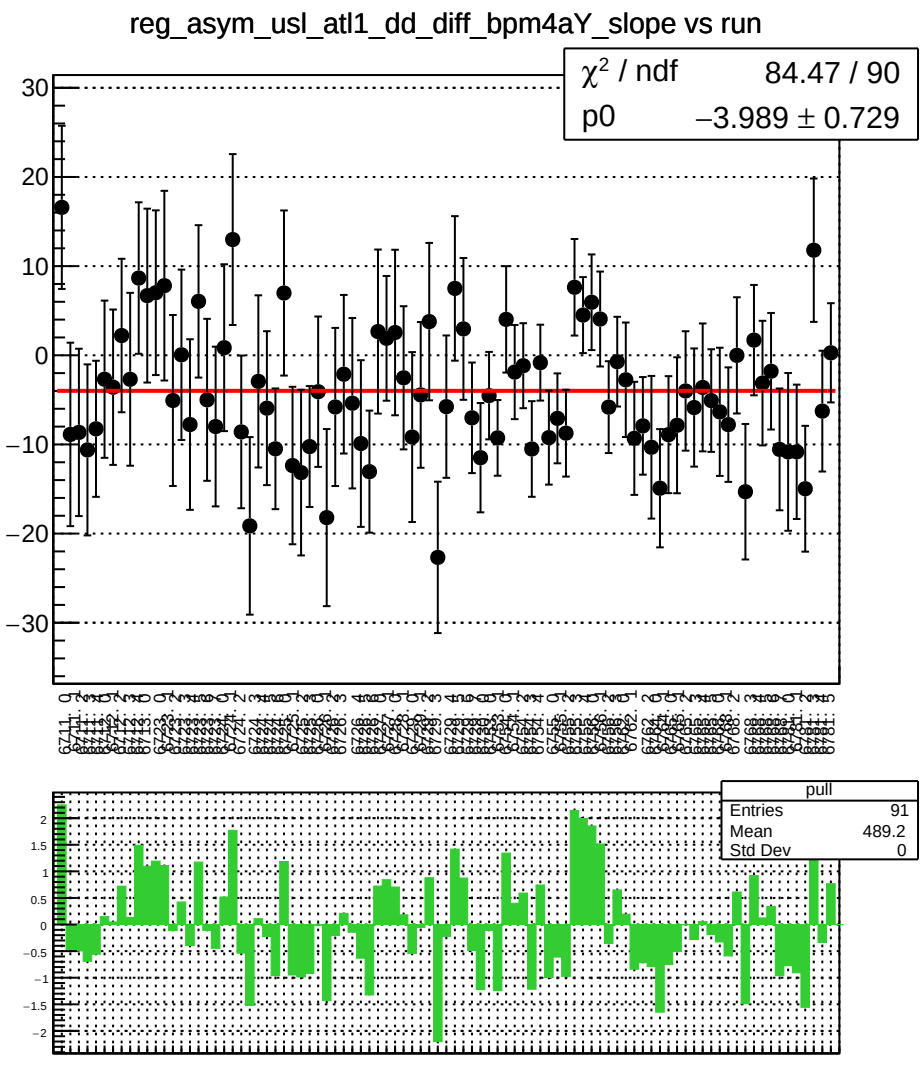

pull1D
Entries 91
Mean 0.03777
Std Dev 0.9404

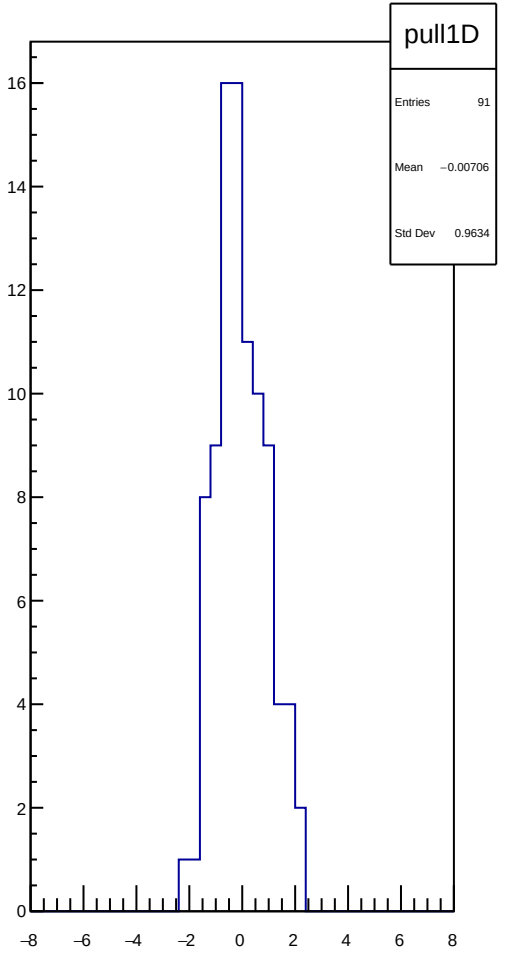

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 2335 / 90
p0 −31.62 ± 0.07389
pull
Entries 91
Mean −346.8
Std Dev 0

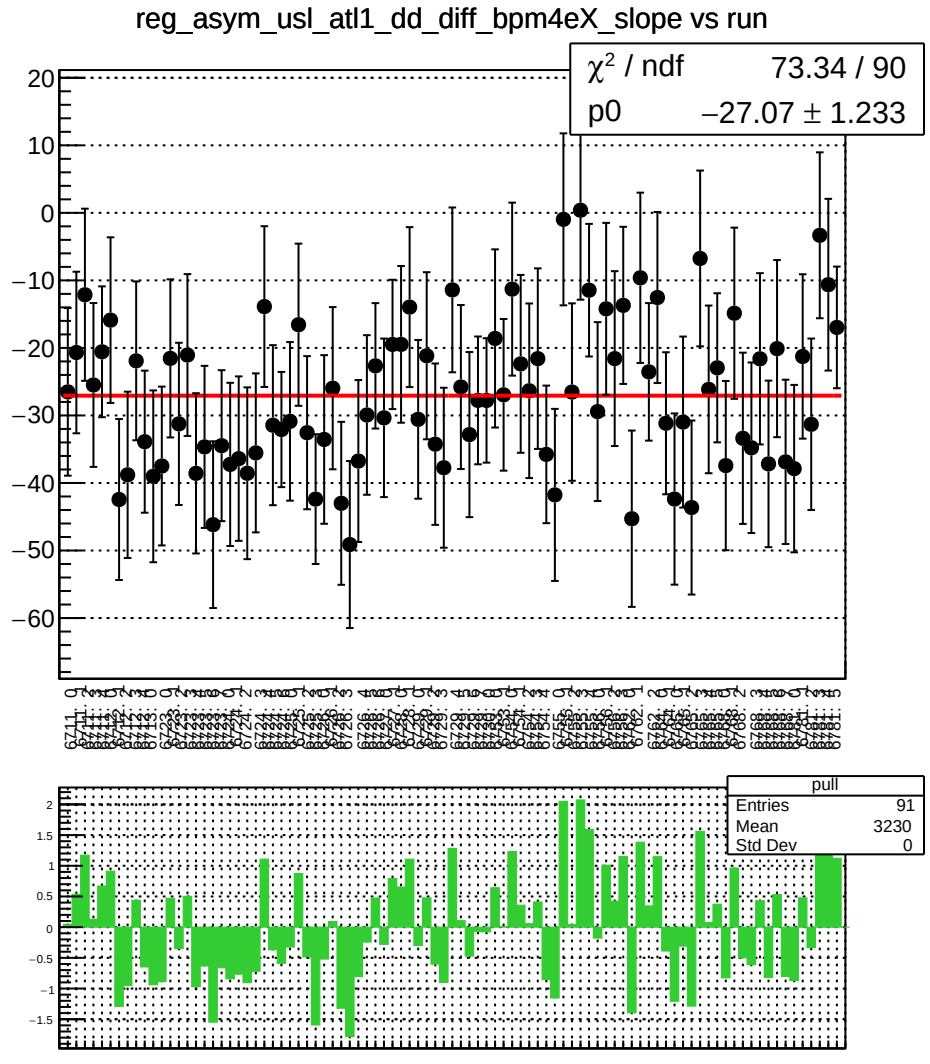

pull1D
Entries 91
Mean 0.03162
Std Dev 4.785

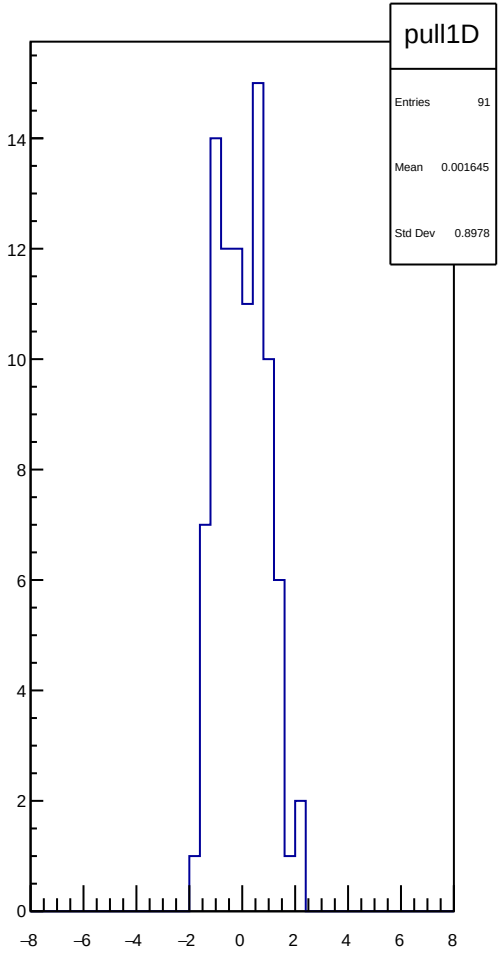

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 74.04 / 90
p0 −23.72 ± 1.286
pull
Entries 91
Mean 889
Std Dev 0

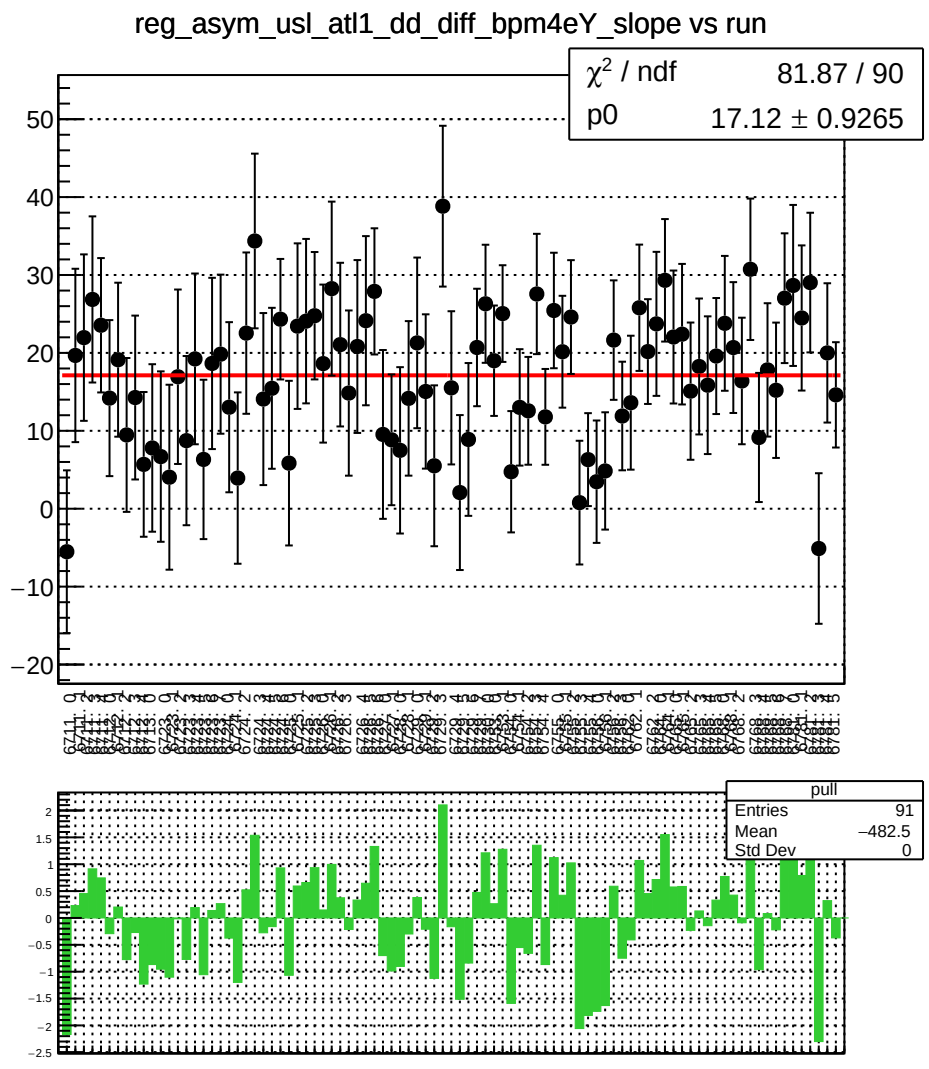

pull1D
Entries 91
Mean −0.00745
Std Dev 0.902

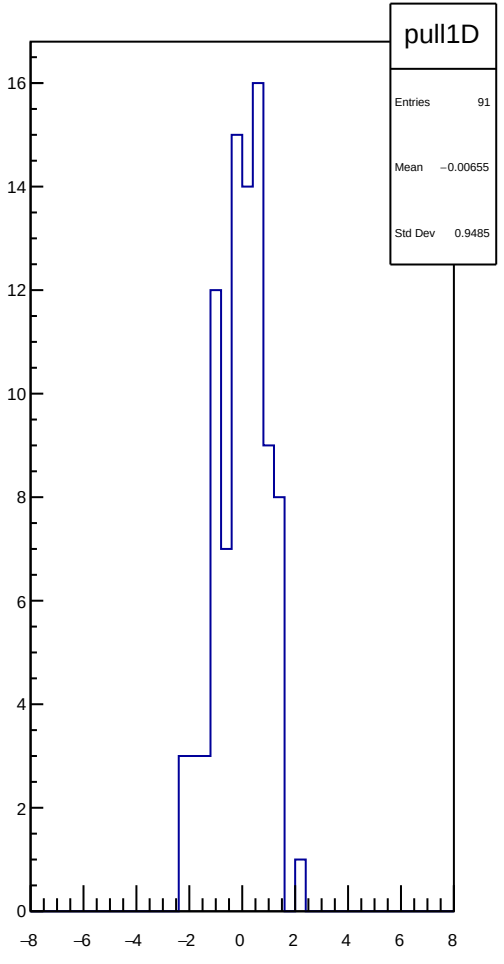

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.47 / 90
p0 −3.989 ± 0.729
pull
Entries 91
Mean 489.2
Std Dev 0

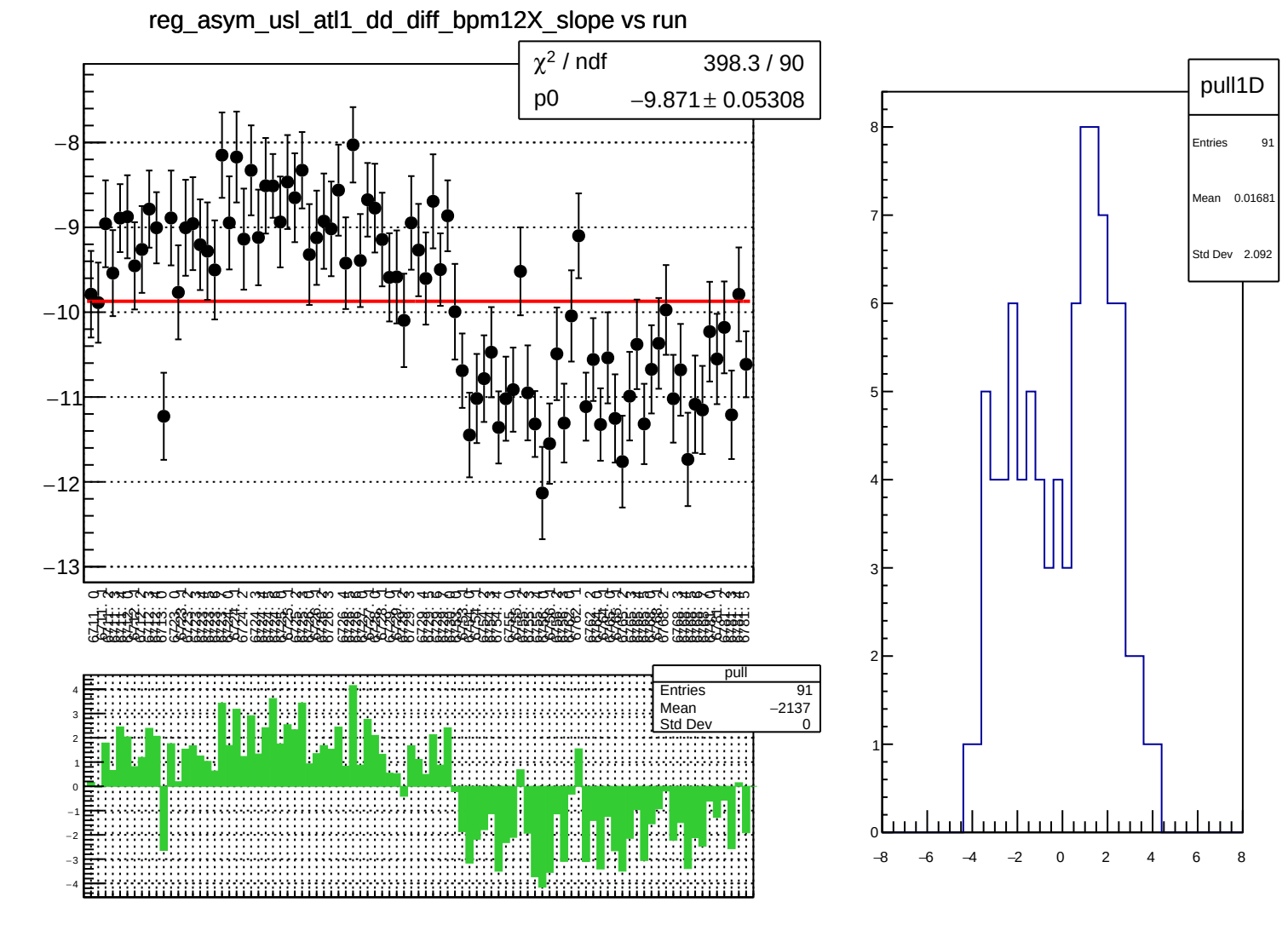

pull1D
Entries 91
Mean −0.00706
Std Dev 0.9634

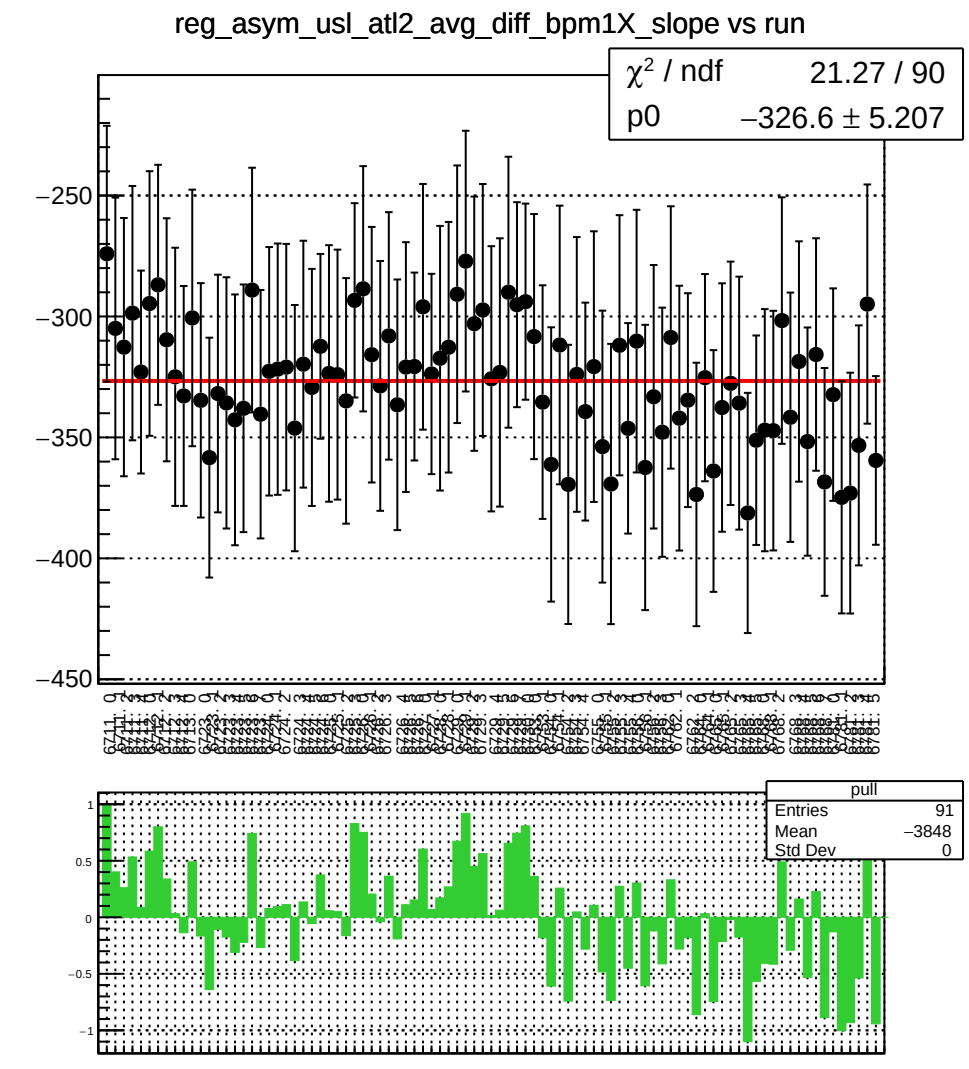

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 73.34 / 90
p0 −27.07 ± 1.233
pull
Entries 91
Mean 3230
Std Dev 0

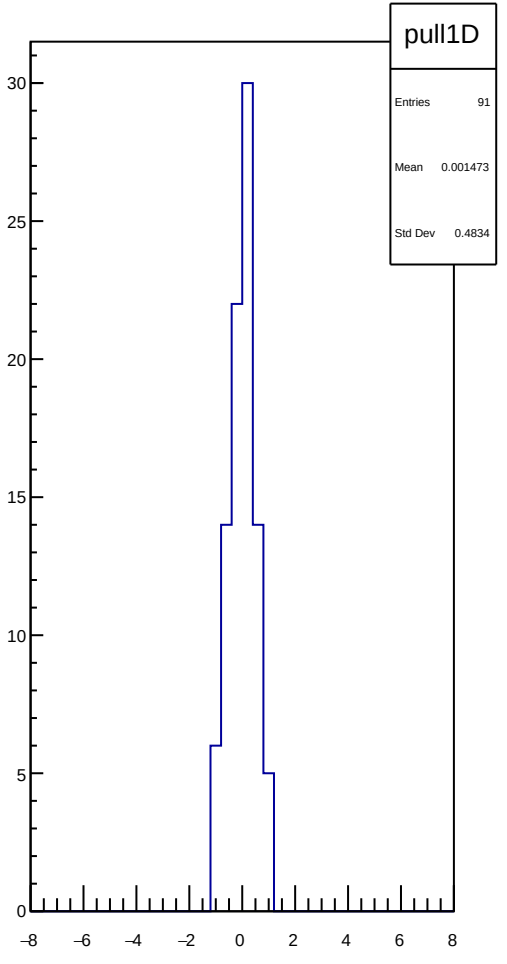

pull1D
Entries 91
Mean 0.001645
Std Dev 0.8978

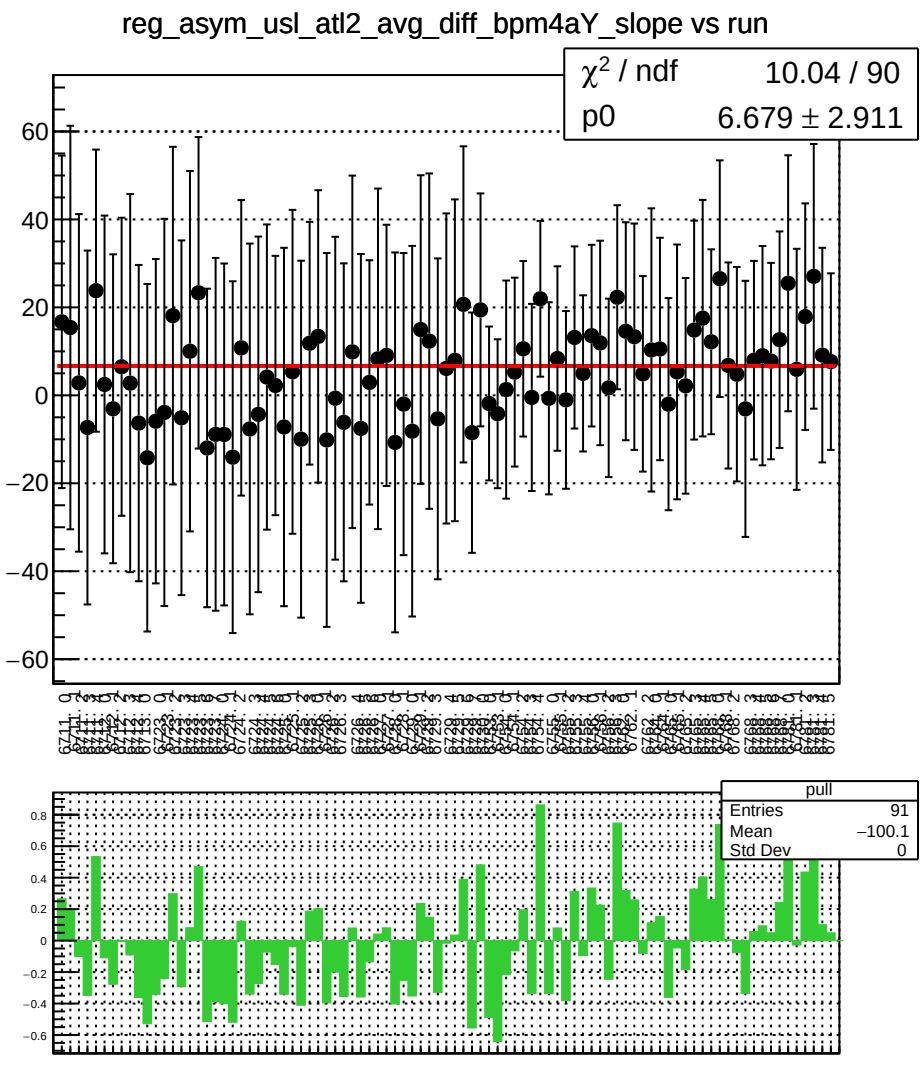

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.87 / 90
p0 17.12 ± 0.9265
pull
Entries 91
Mean −482.5
Std Dev 0

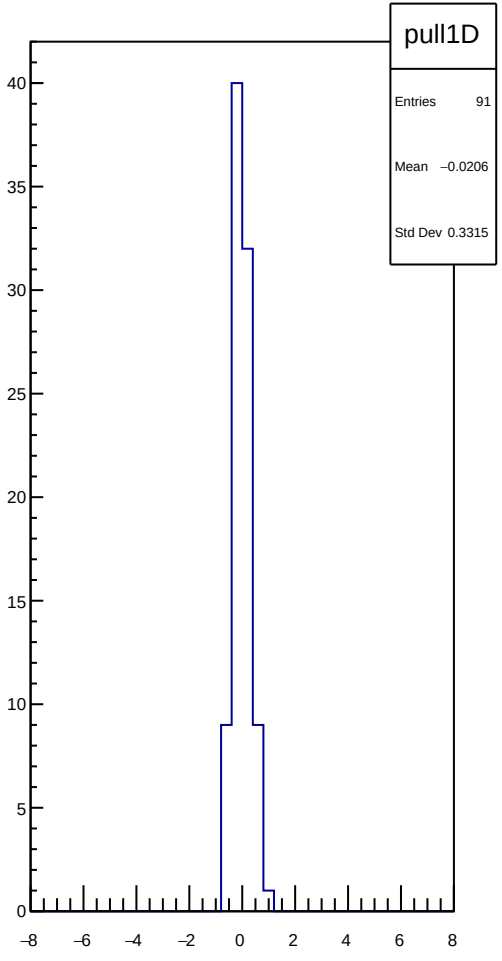

pull1D
Entries 91
Mean −0.00655
Std Dev 0.9485

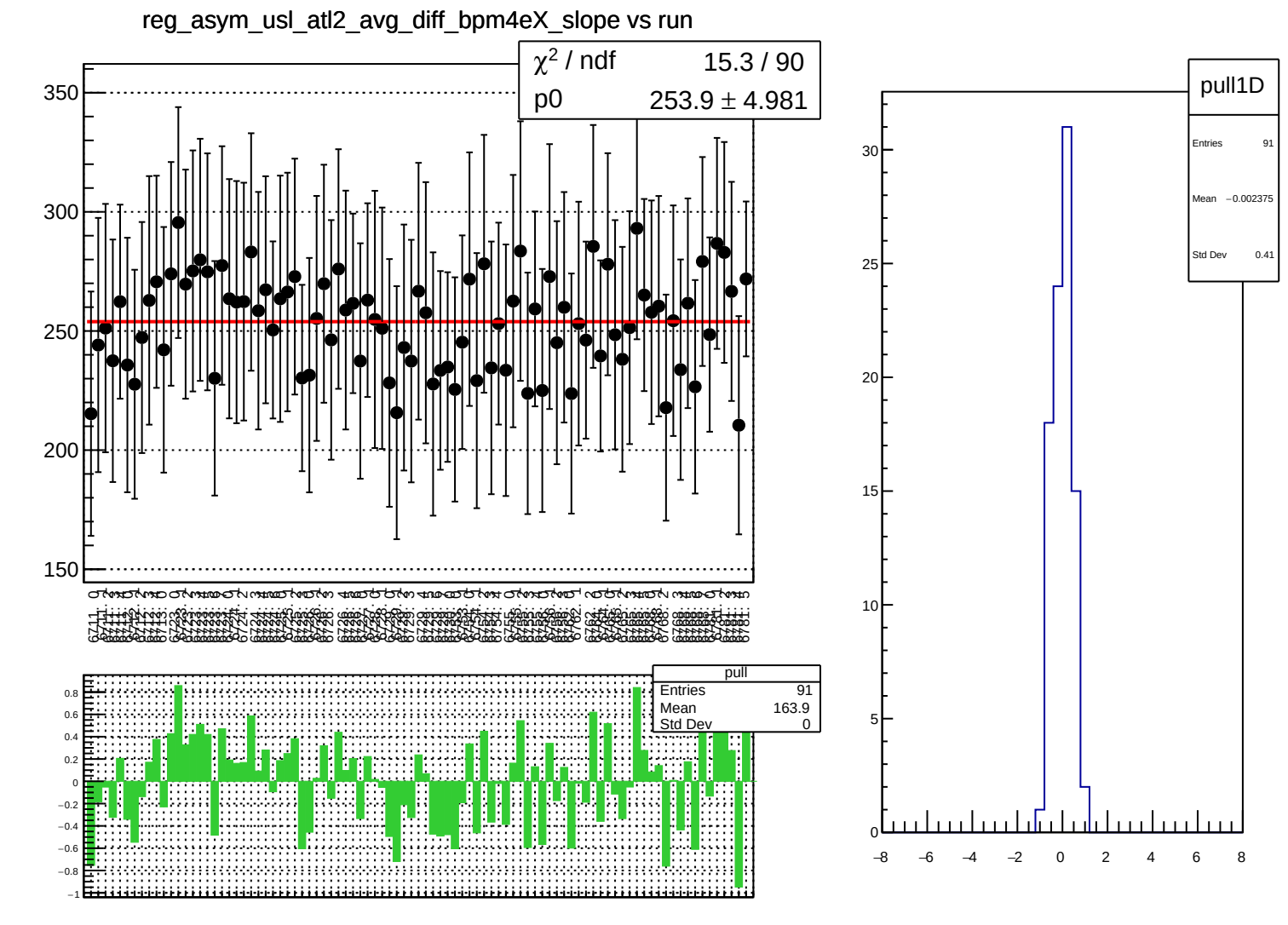

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 398.3 / 90
p0 −9.871 ± 0.05308
−8
−9
−10
−11
−12
−13
pull
Entries 91
Mean −2137
Std Dev 0
pull1D
Entries 91
Mean 0.01681
Std Dev 2.092

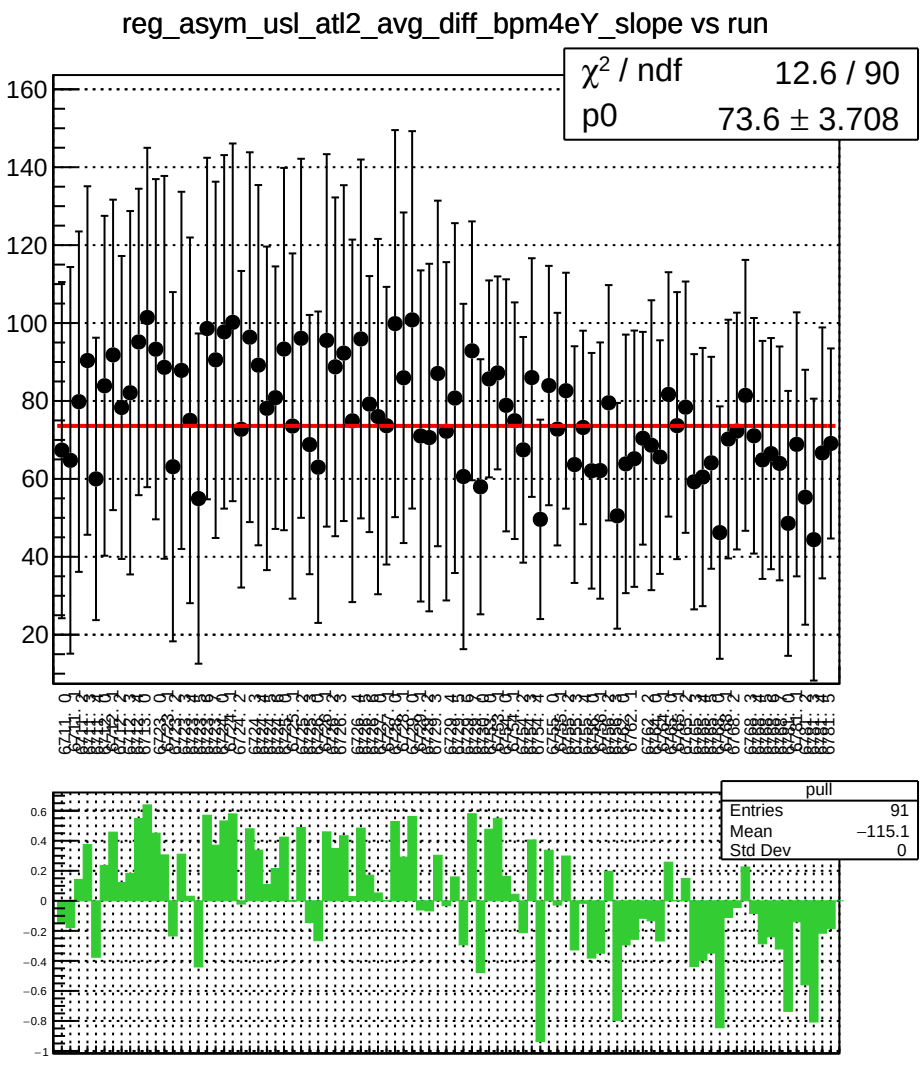

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 21.27 / 90
p0 −326.6 ± 5.207
−250
−300
−350
−400
−450
pull
Entries 91
Mean −3848
Std Dev 0
1
0.5
0
−0.5
−1

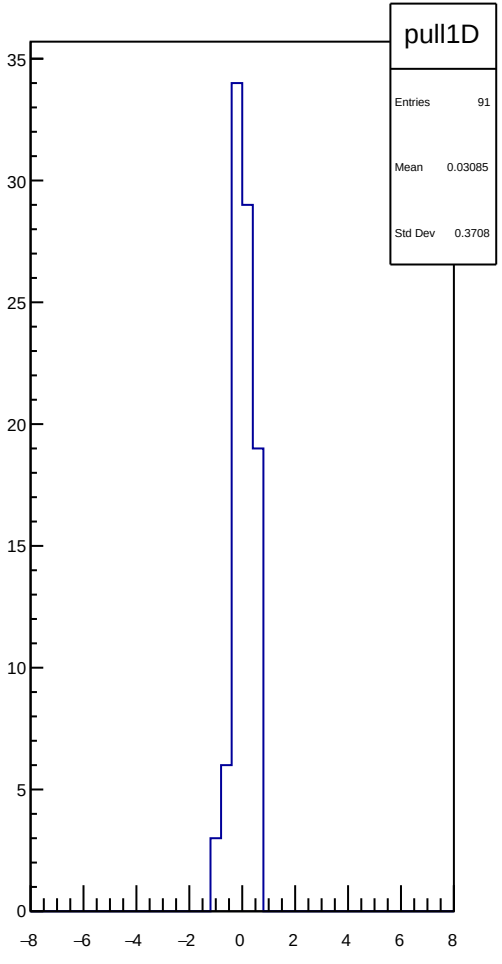

pull1D
Entries 91
Mean 0.001473
Std Dev 0.4834
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

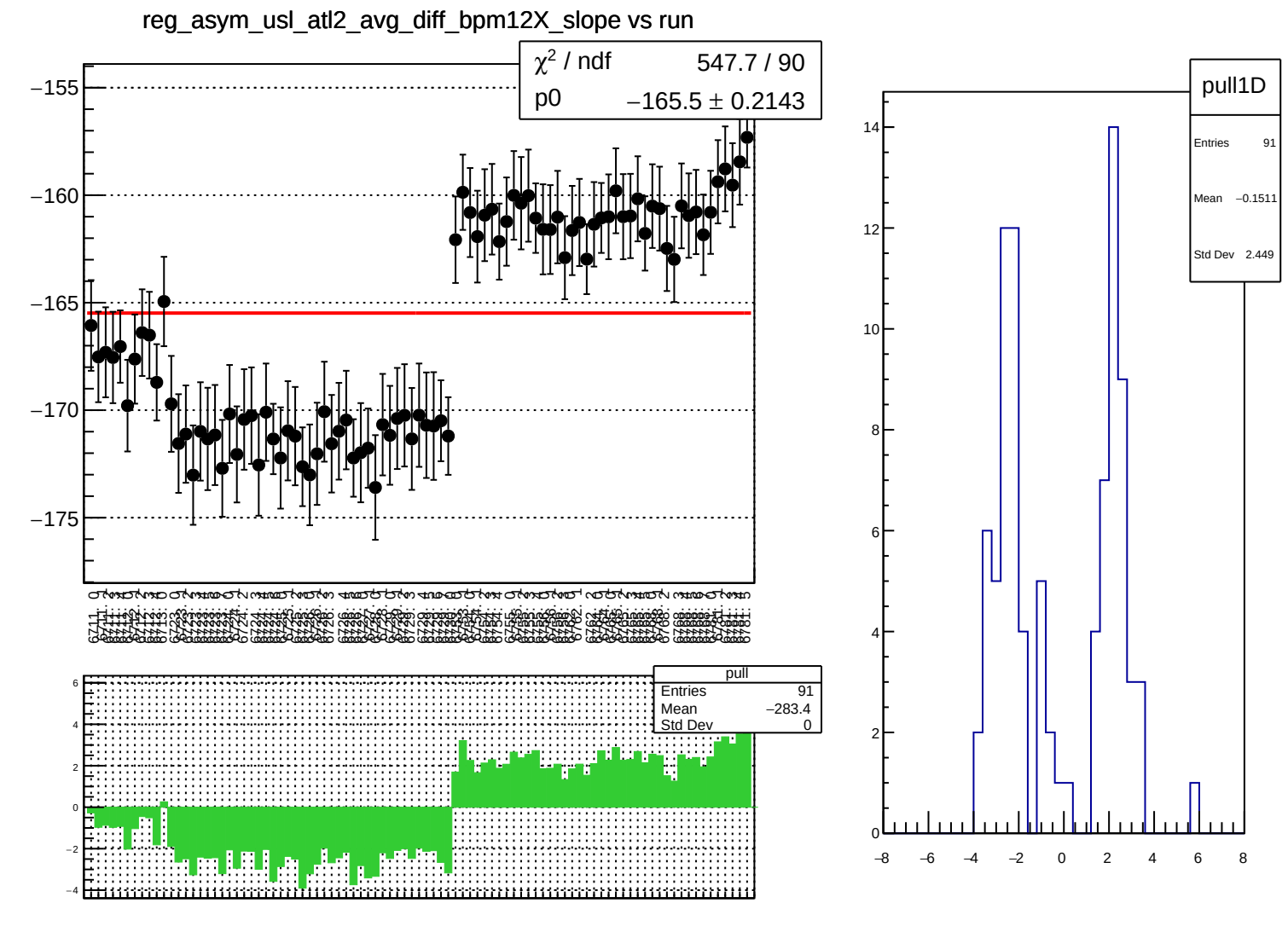

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.04 / 90
p0 6.679 ± 2.911
pull
Entries 91
Mean −100.1
Std Dev 0

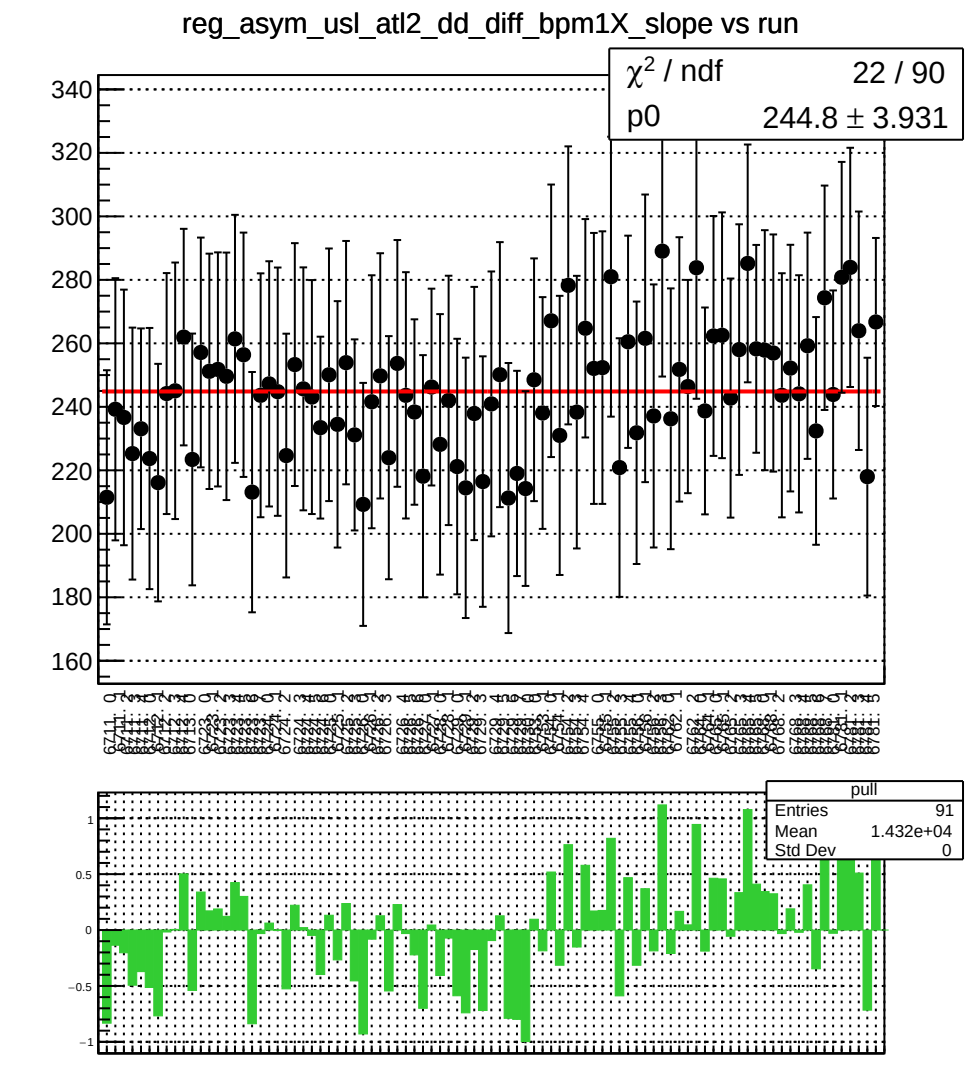

pull1D
Entries 91
Mean −0.0206
Std Dev 0.3315

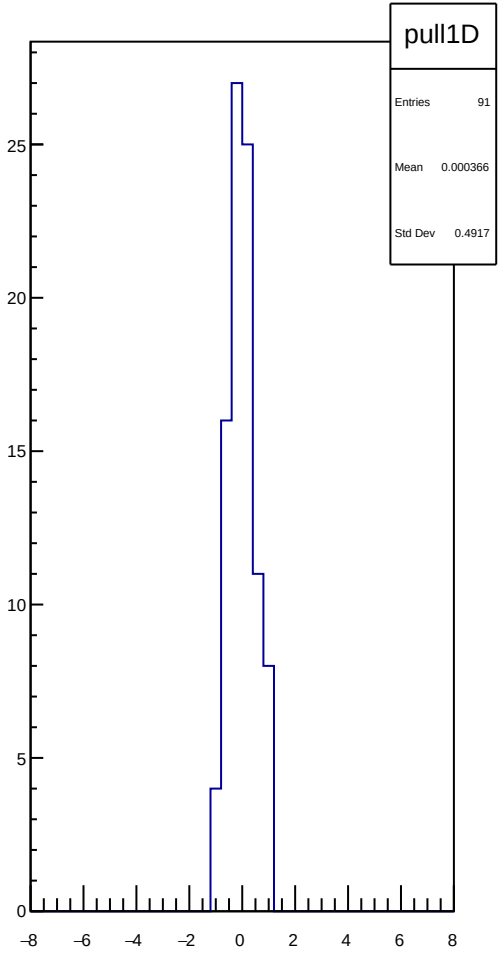

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.3 / 90
p0 253.9 ± 4.981
pull
Entries 91
Mean 163.9
Std Dev 0
pull1D
Entries 91
Mean −0.002375
Std Dev 0.41

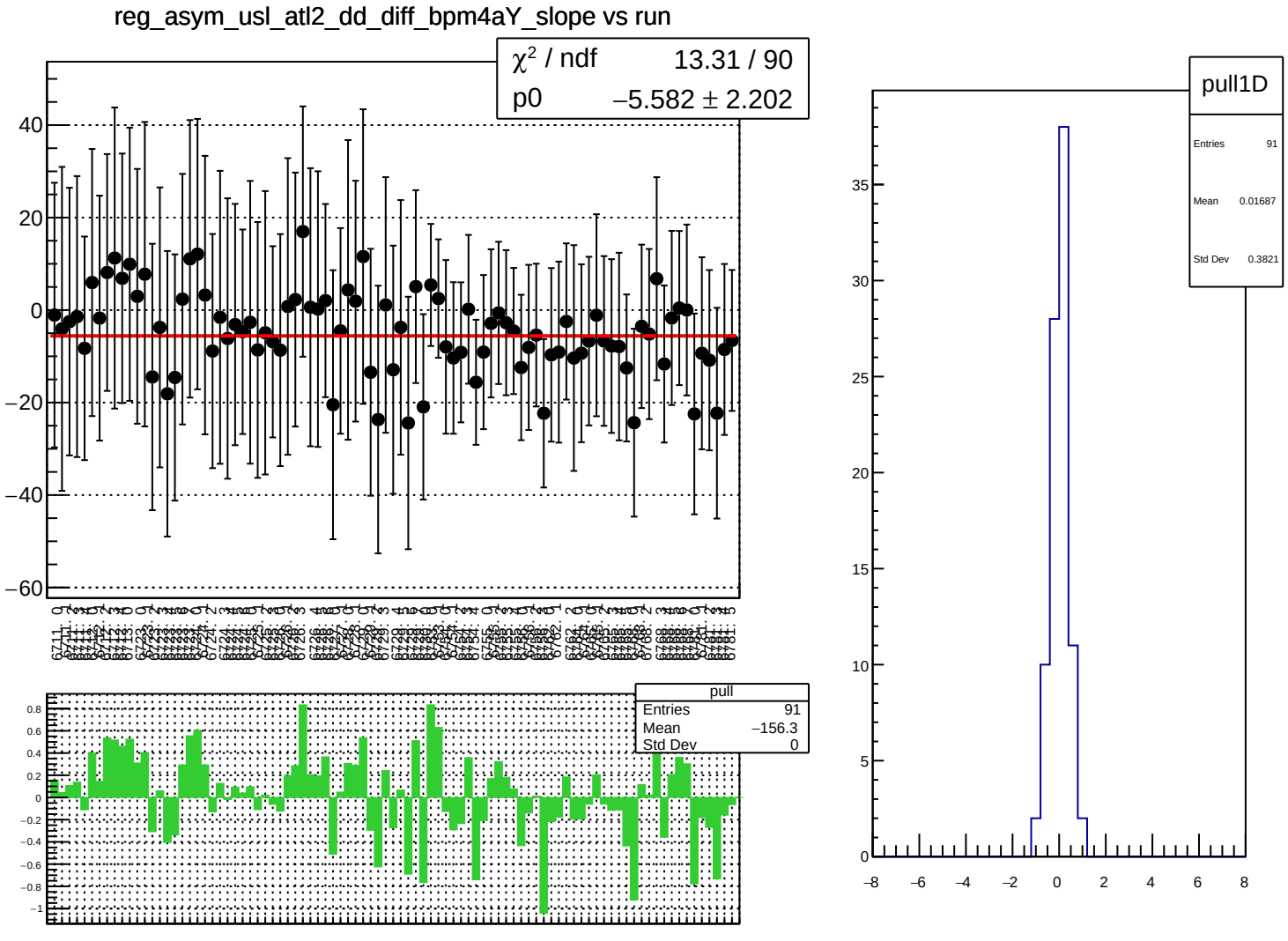

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.6 / 90
p0 73.6 ± 3.708
pull
Entries 91
Mean −115.1
Std Dev 0

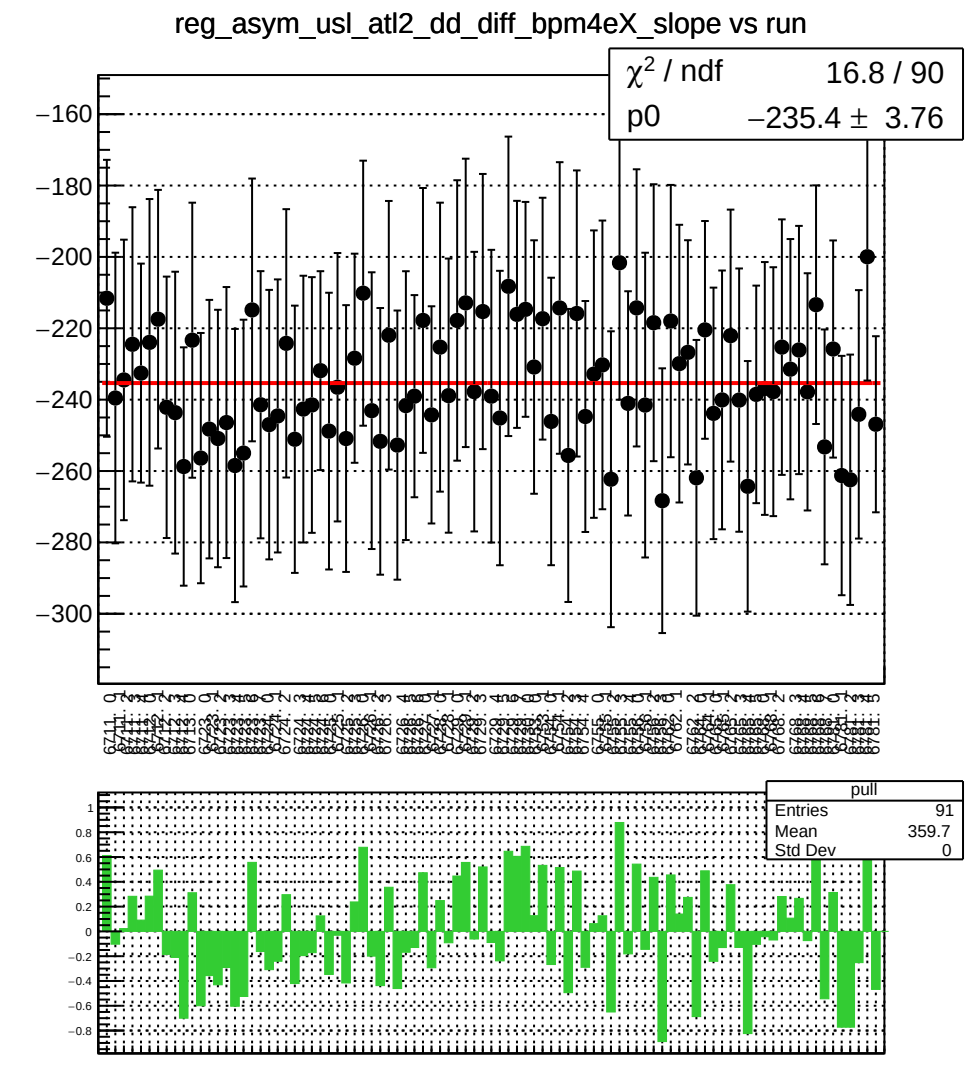

pull1D
Entries 91
Mean 0.03085
Std Dev 0.3708

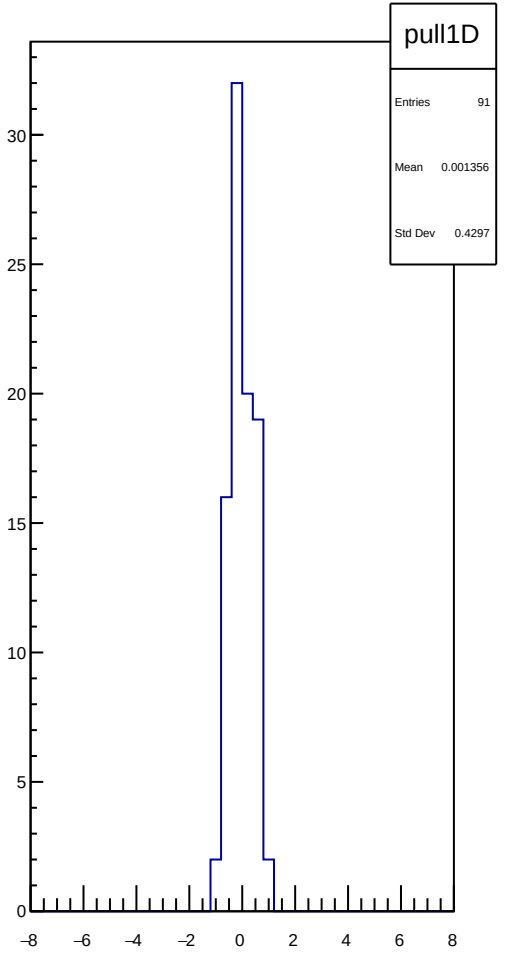

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 547.7 / 90
p0 −165.5 ± 0.2143
−155
−160
−165
−170
−175
pull
Entries 91
Mean −283.4
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 91
Mean −0.1511
Std Dev 2.449
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

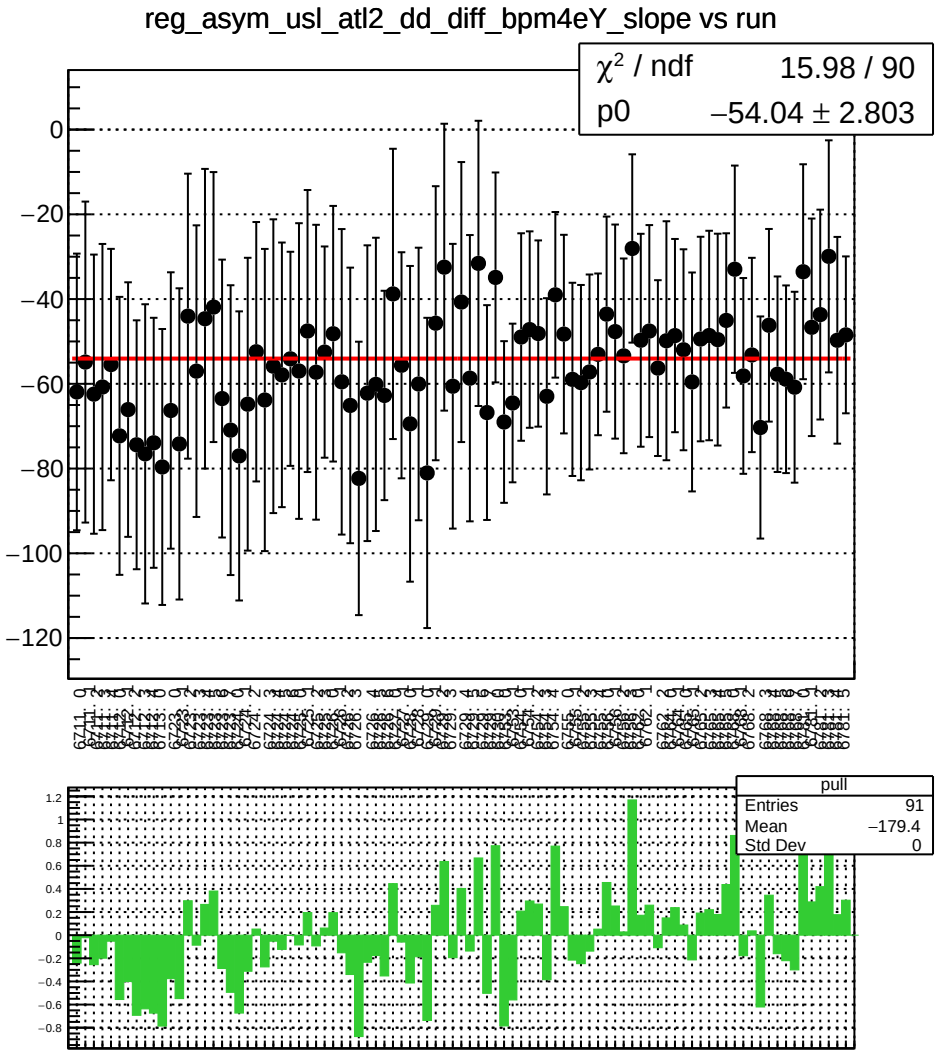

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 22 / 90
p0 244.8 ± 3.931
pull
Entries 91
Mean 1.432e+04
Std Dev 0

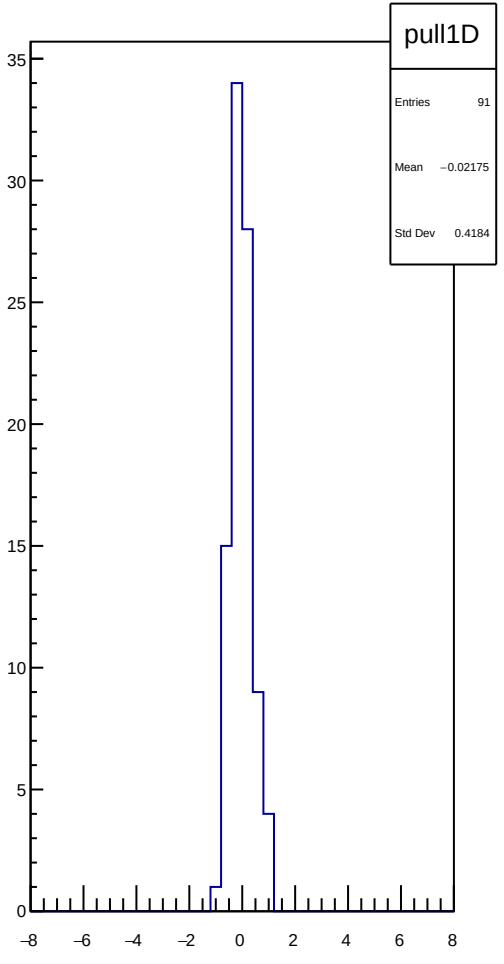

pull1D
Entries 91
Mean 0.000366
Std Dev 0.4917

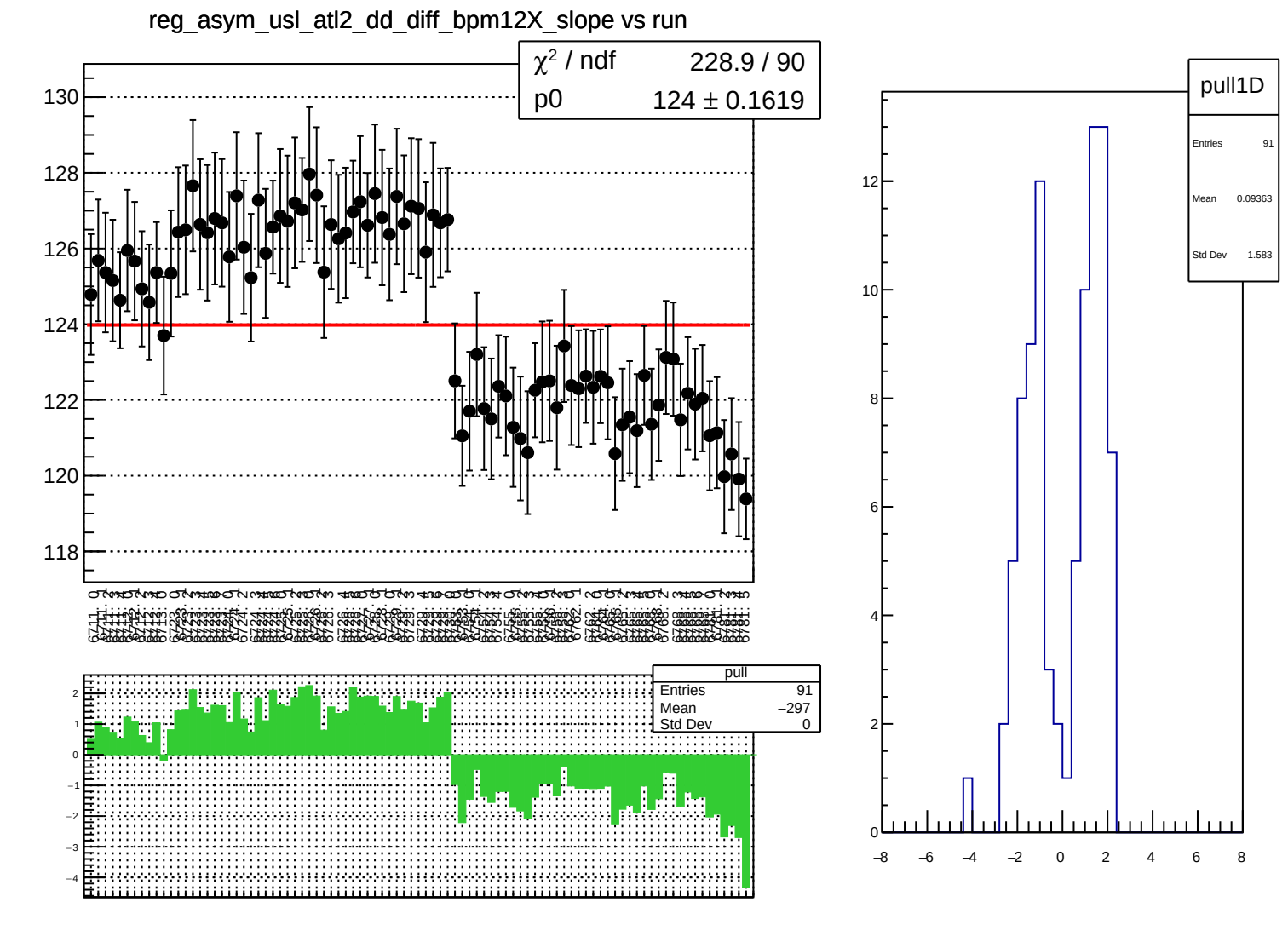

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.31 / 90
p0 −5.582 ± 2.202
pull
Entries 91
Mean −156.3
Std Dev 0
pull1D
Entries 91
Mean 0.01687
Std Dev 0.3821

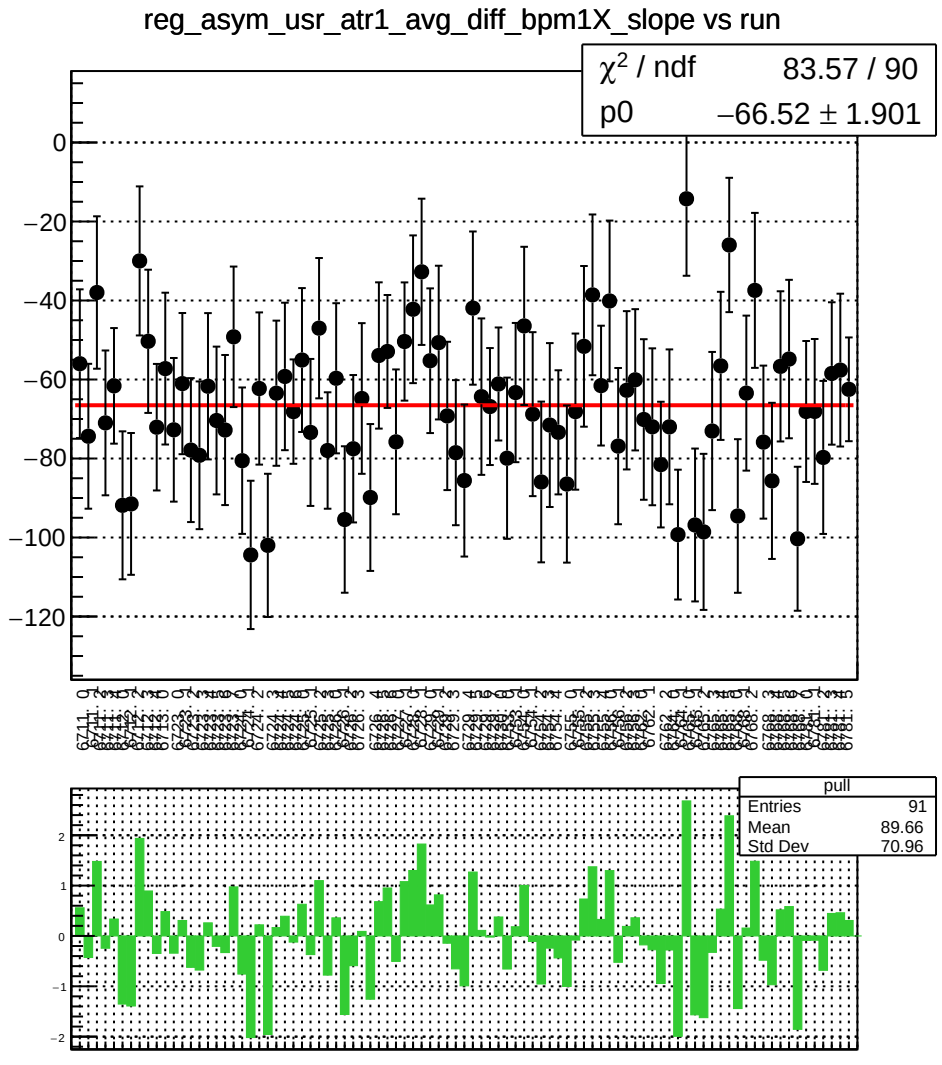

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.8 / 90
p0 −235.4 ± 3.76
−160
−180
−200
−220
−240
−260
−280
−300
pull
Entries 91
Mean 359.7
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

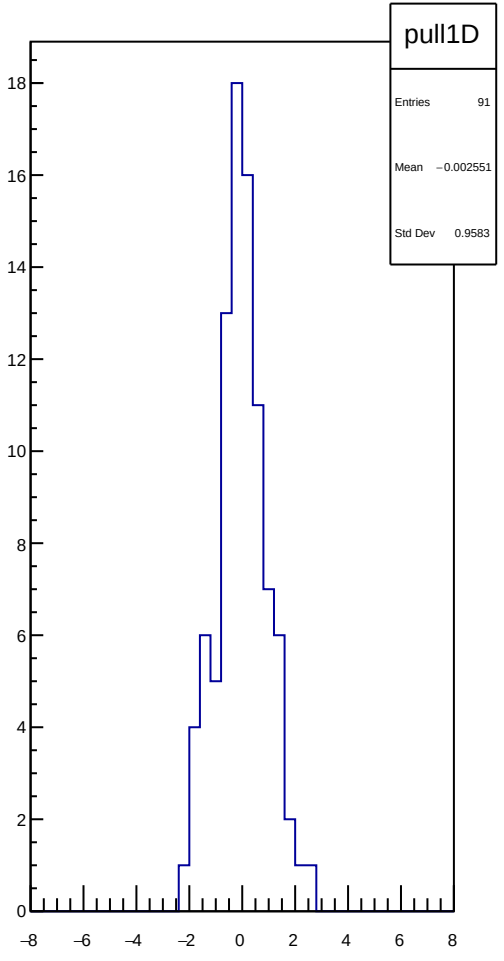

pull1D
Entries 91
Mean 0.001356
Std Dev 0.4297
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

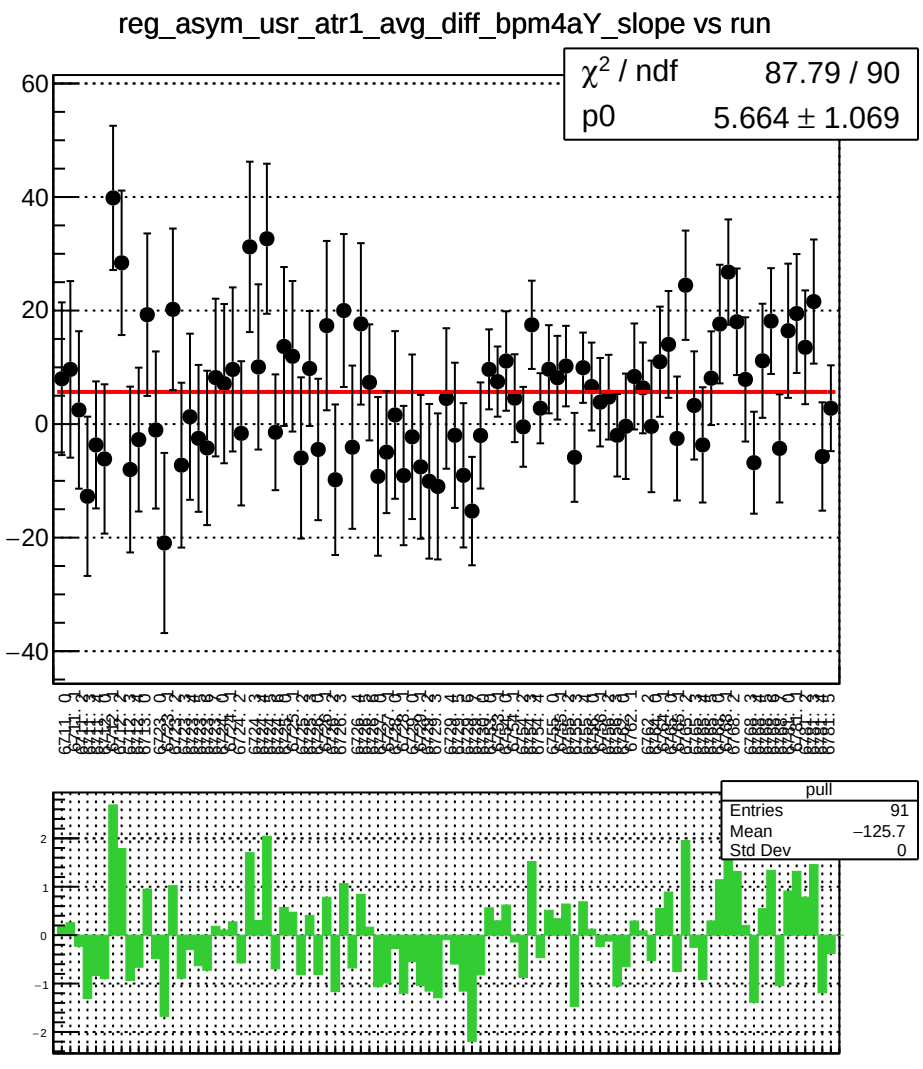

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.98 / 90
p0 −54.04 ± 2.803
pull
Entries 91
Mean −179.4
Std Dev 0

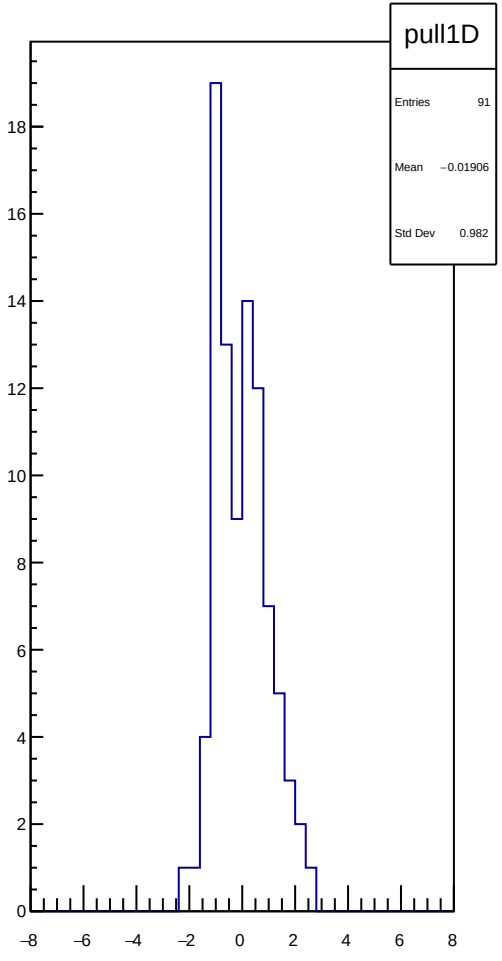

pull1D
Entries 91
Mean −0.02175
Std Dev 0.4184

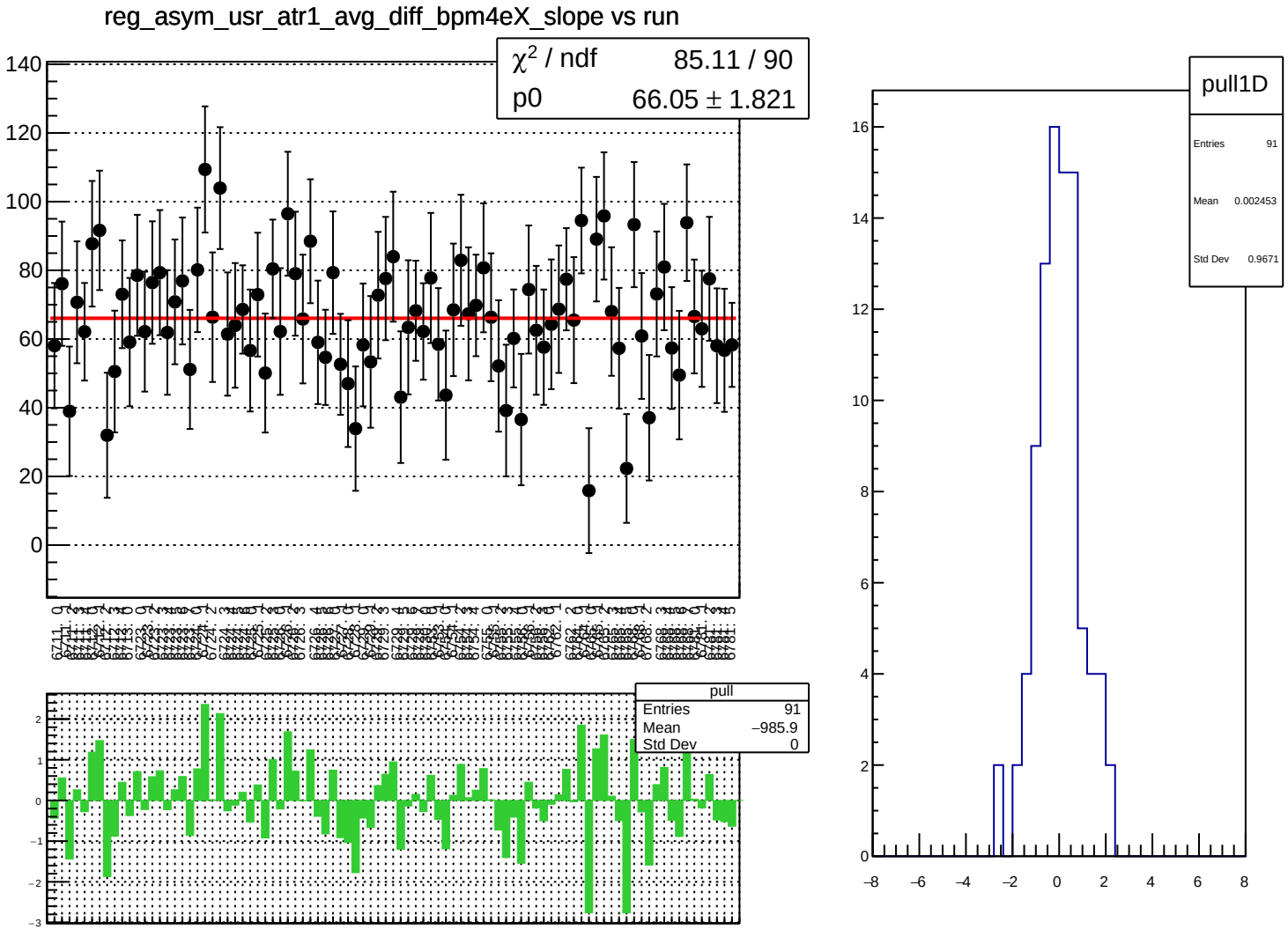

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 228.9 / 90
p0 124 ± 0.1619
130
128
126
124
122
120
118
pull
Entries 91
Mean −297
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 91
Mean 0.09363
Std Dev 1.583
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

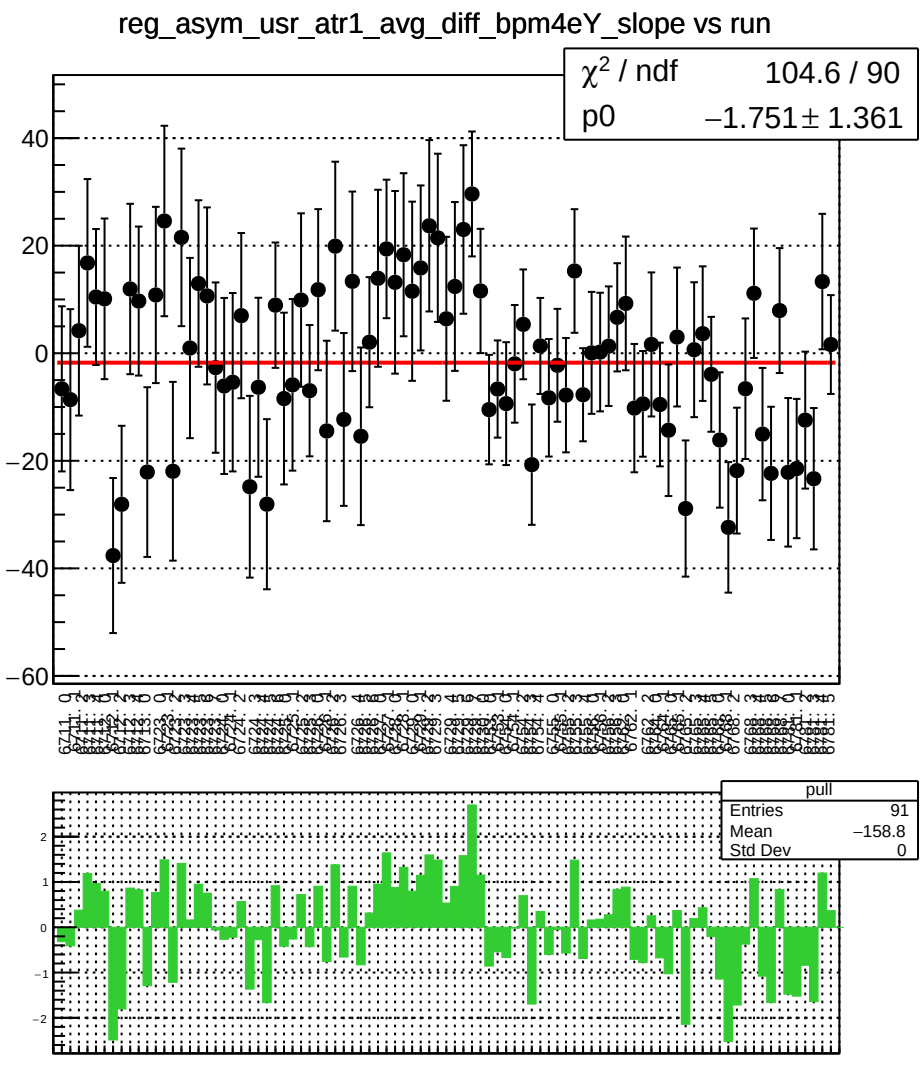

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 83.57 / 90
p0 −66.52 ± 1.901
pull
Entries 91
Mean 89.66
Std Dev 70.96

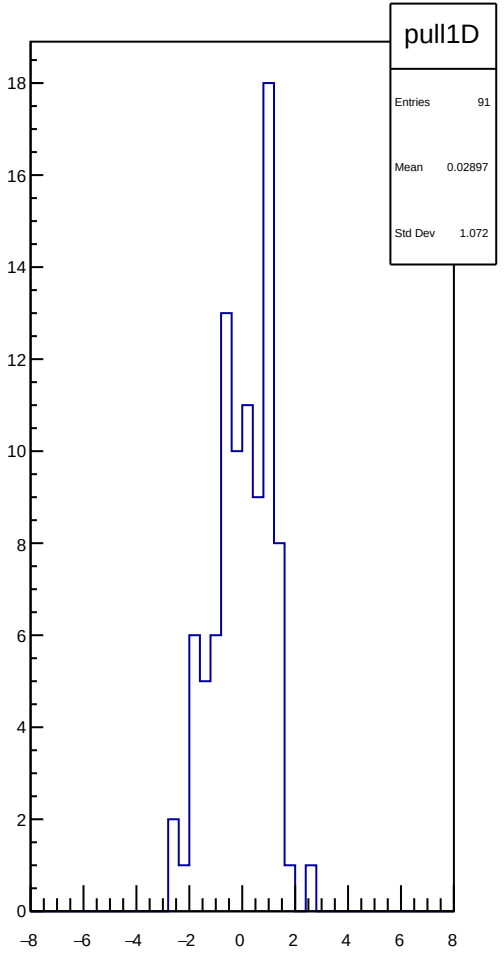

pull1D
Entries 91
Mean −0.002551
Std Dev 0.9583

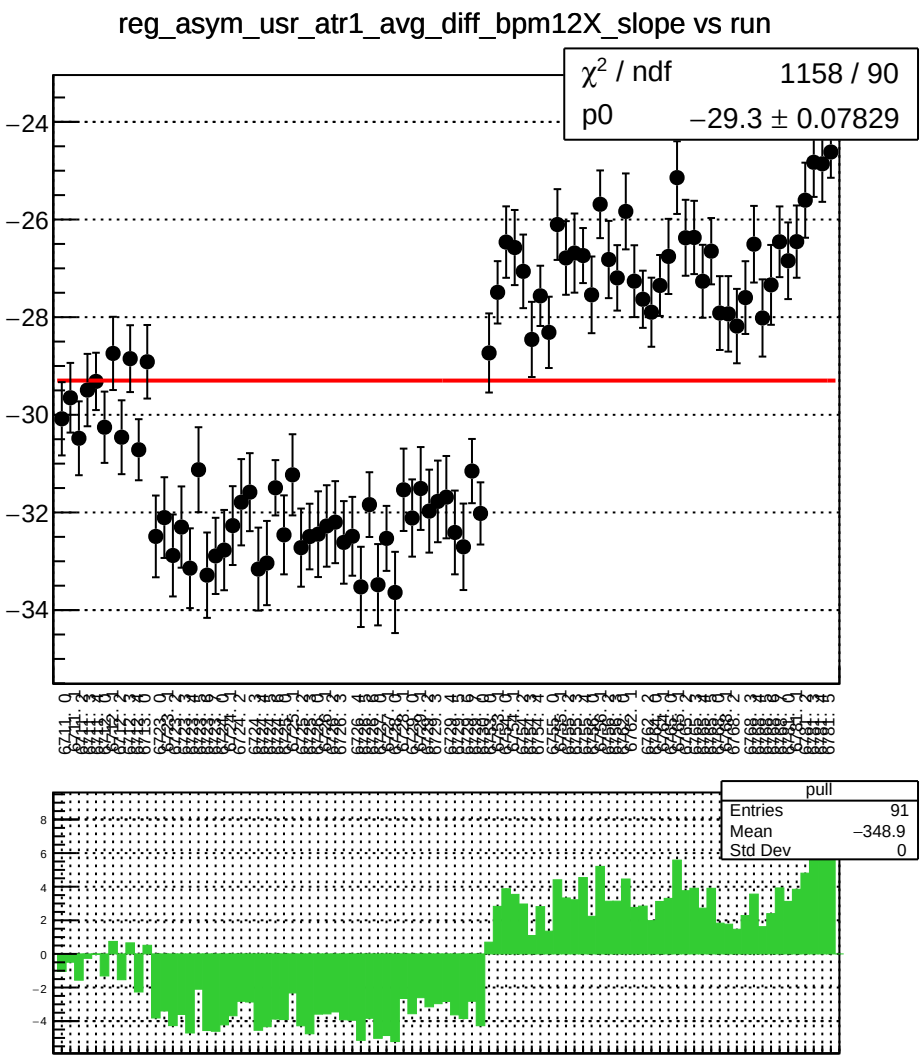

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 87.79 / 90
p0 5.664 ± 1.069
pull
Entries 91
Mean −125.7
Std Dev 0

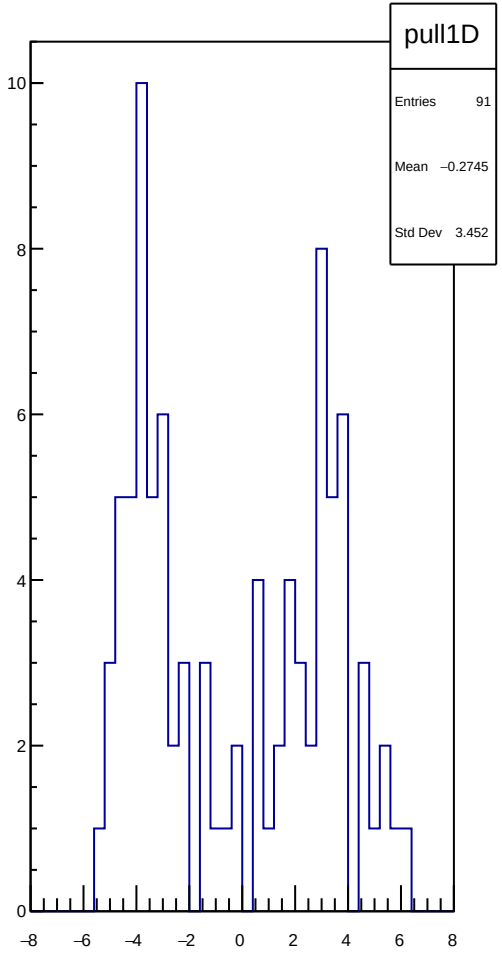

pull1D
Entries 91
Mean −0.01906
Std Dev 0.982

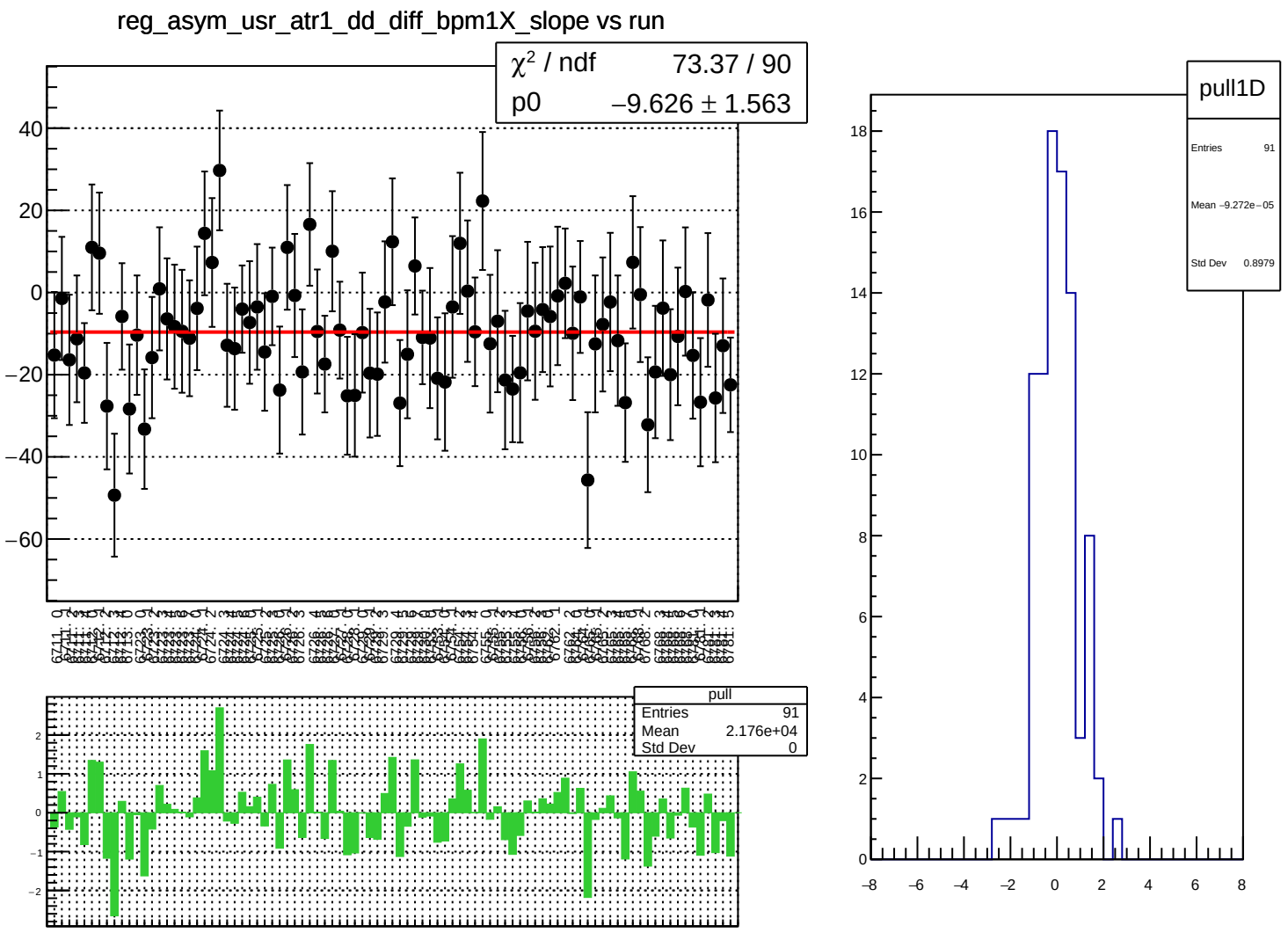

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 85.11 / 90
p0 66.05 ± 1.821
pull
Entries 91
Mean −985.9
Std Dev 0
pull1D
Entries 91
Mean 0.002453
Std Dev 0.9671

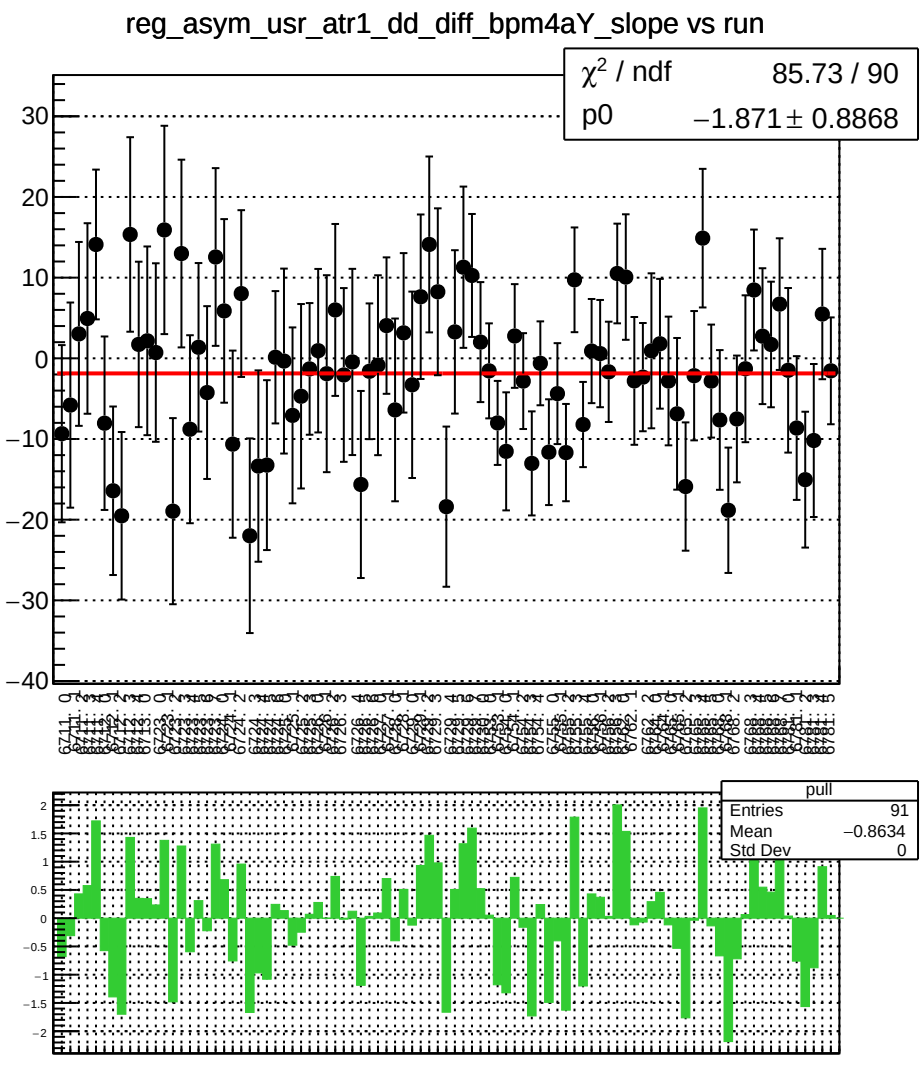

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 104.6 / 90
p0 −1.751 ± 1.361
pull
Entries 91
Mean −158.8
Std Dev 0

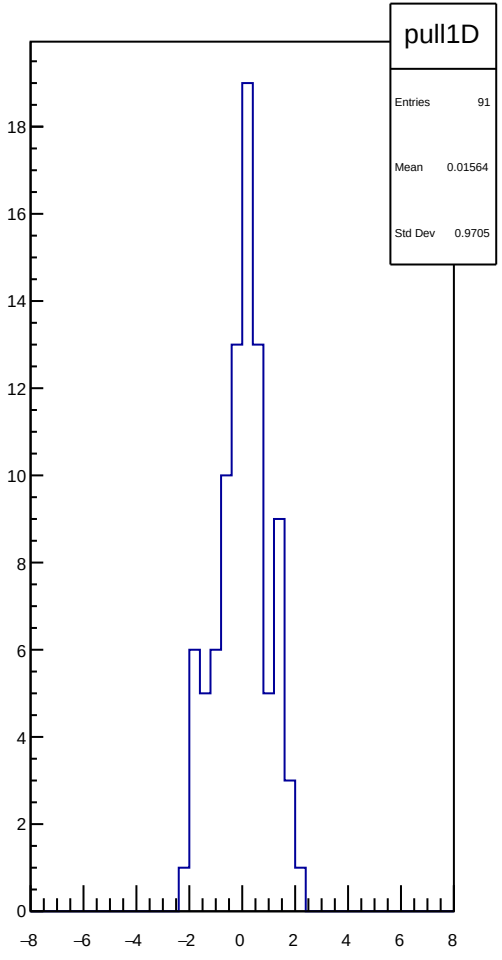

pull1D
Entries 91
Mean 0.02897
Std Dev 1.072

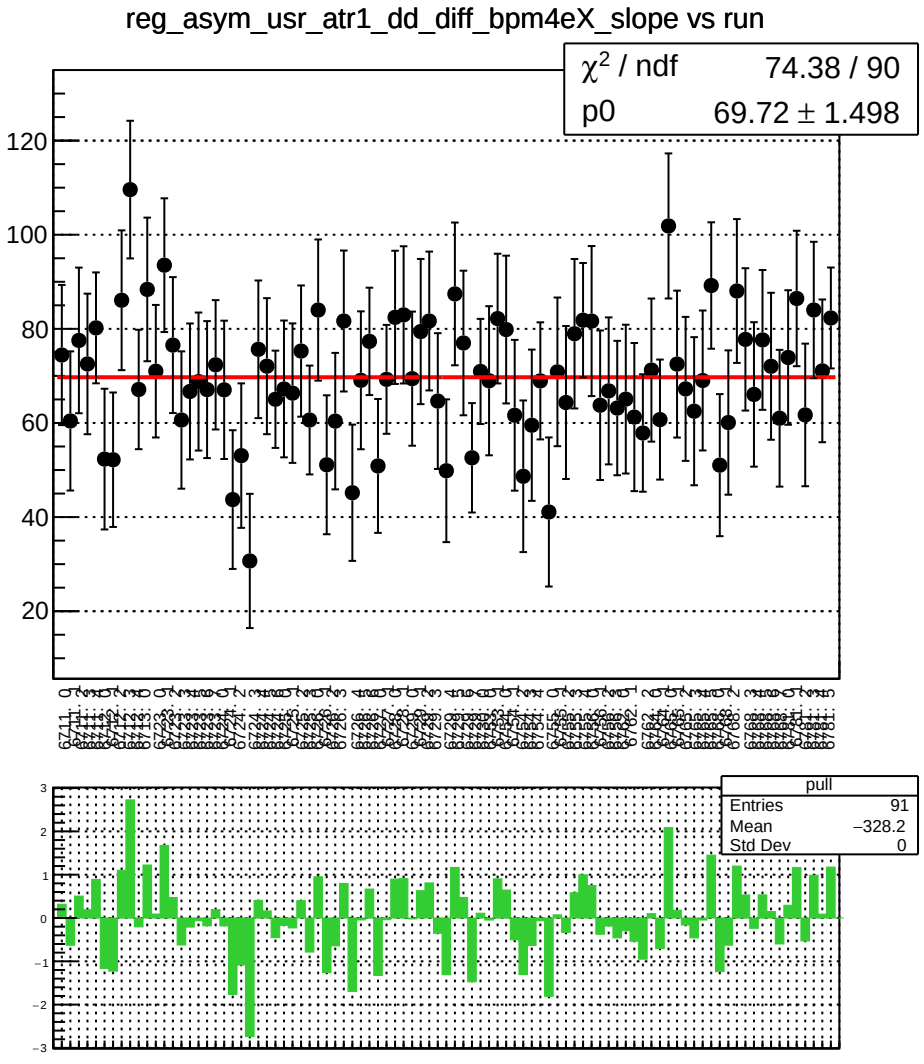

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 1158 / 90
p0 −29.3 ± 0.07829
−24
−26
−28
−30
−32
−34
pull
Entries 91
Mean −348.9
Std Dev 0
8
6
4
2
0
−2
−4

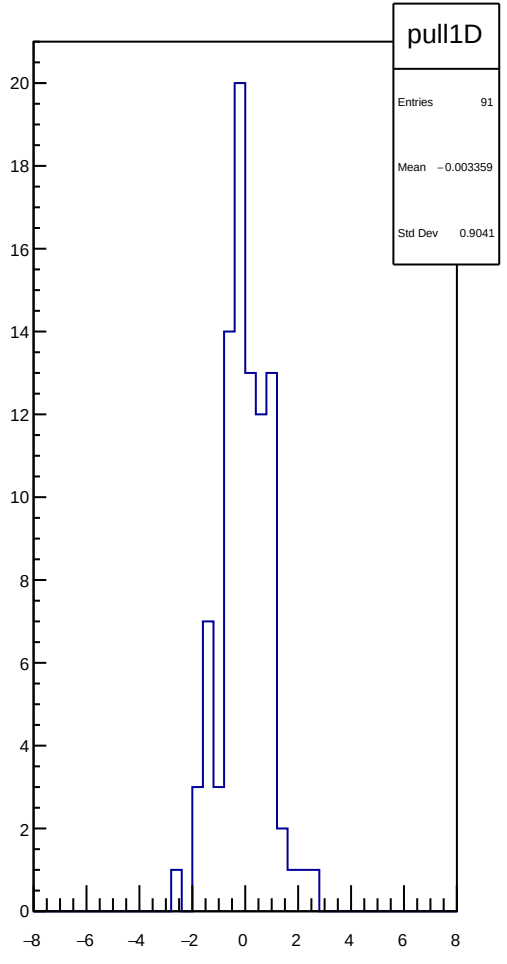

pull1D
Entries 91
Mean −0.2745
Std Dev 3.452
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

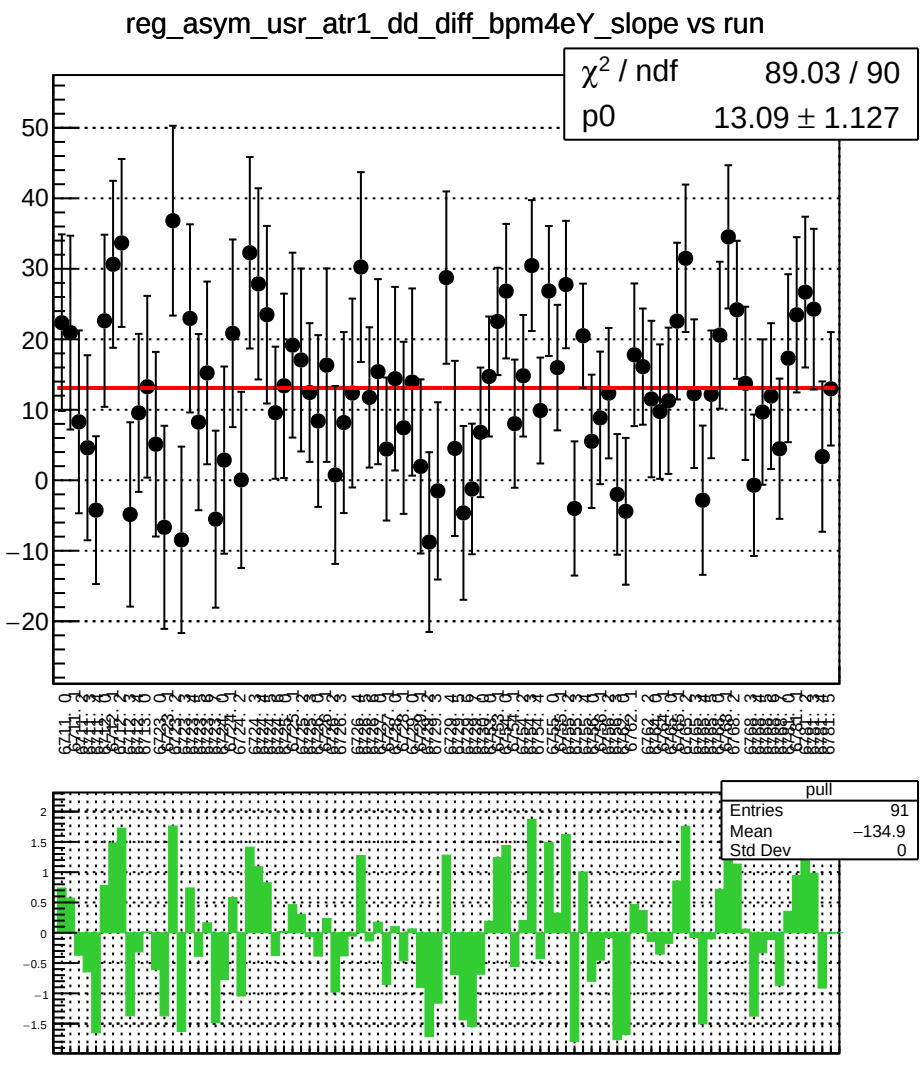

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 73.37 / 90
p0 −9.626 ± 1.563
pull
Entries 91
Mean 2.176e+04
Std Dev 0
pull1D
Entries 91
Mean −9.272e−05
Std Dev 0.8979

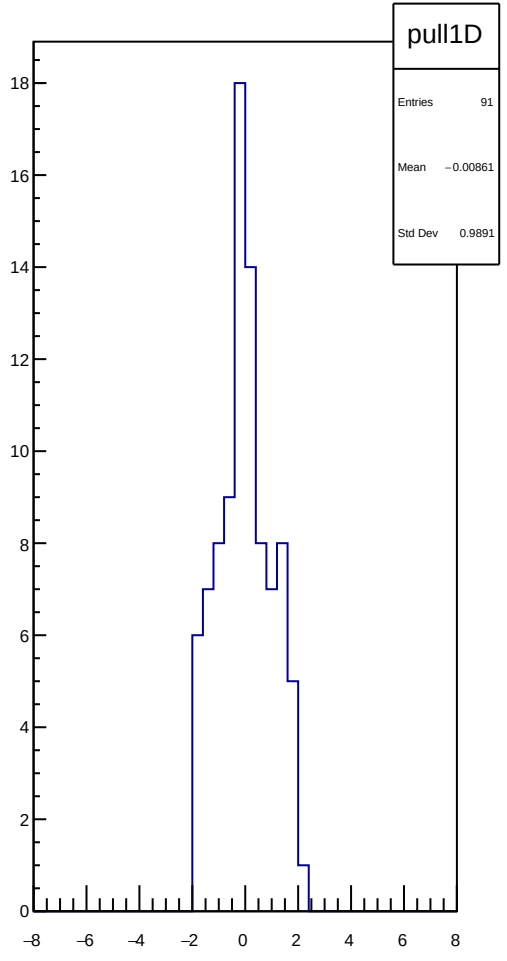

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.73 / 90
p0 −1.871 ± 0.8868
pull
Entries 91
Mean −0.8634
Std Dev 0

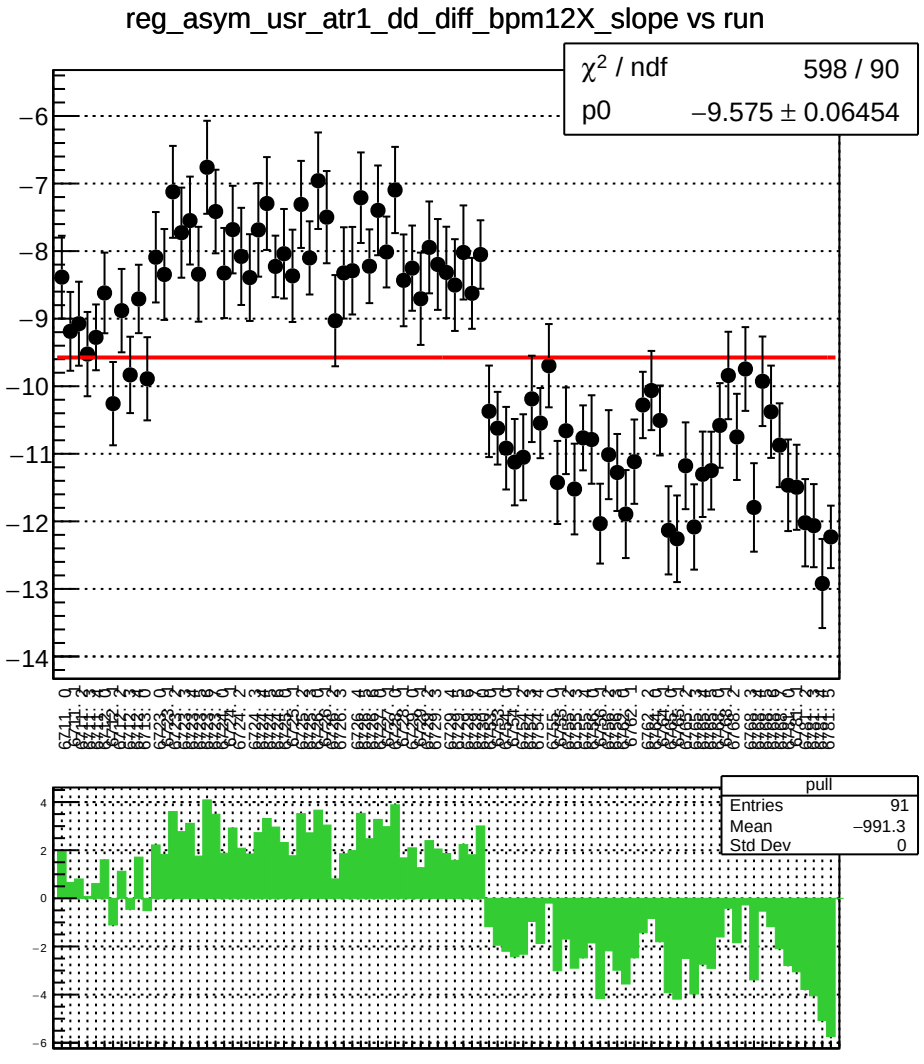

pull1D
Entries 91
Mean 0.01564
Std Dev 0.9705

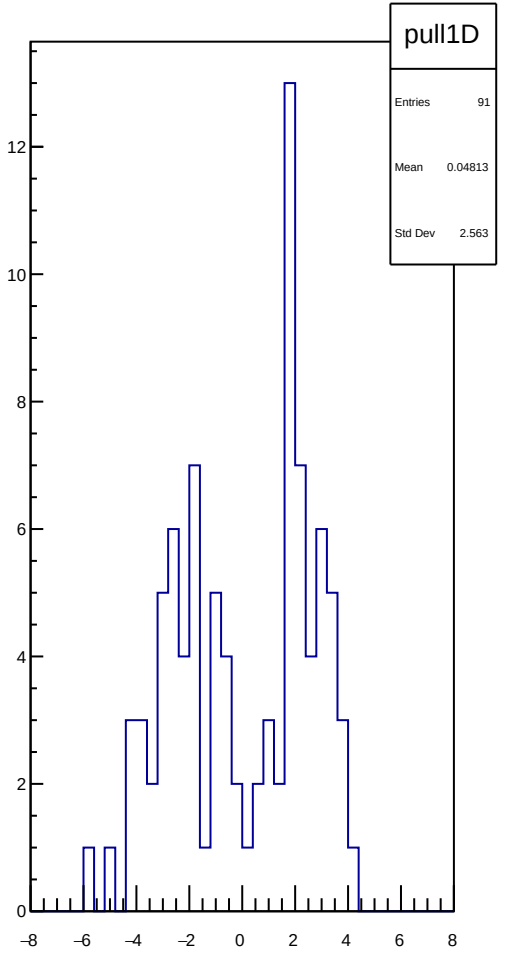

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.38 / 90
p0 69.72 ± 1.498
pull
Entries 91
Mean −328.2
Std Dev 0

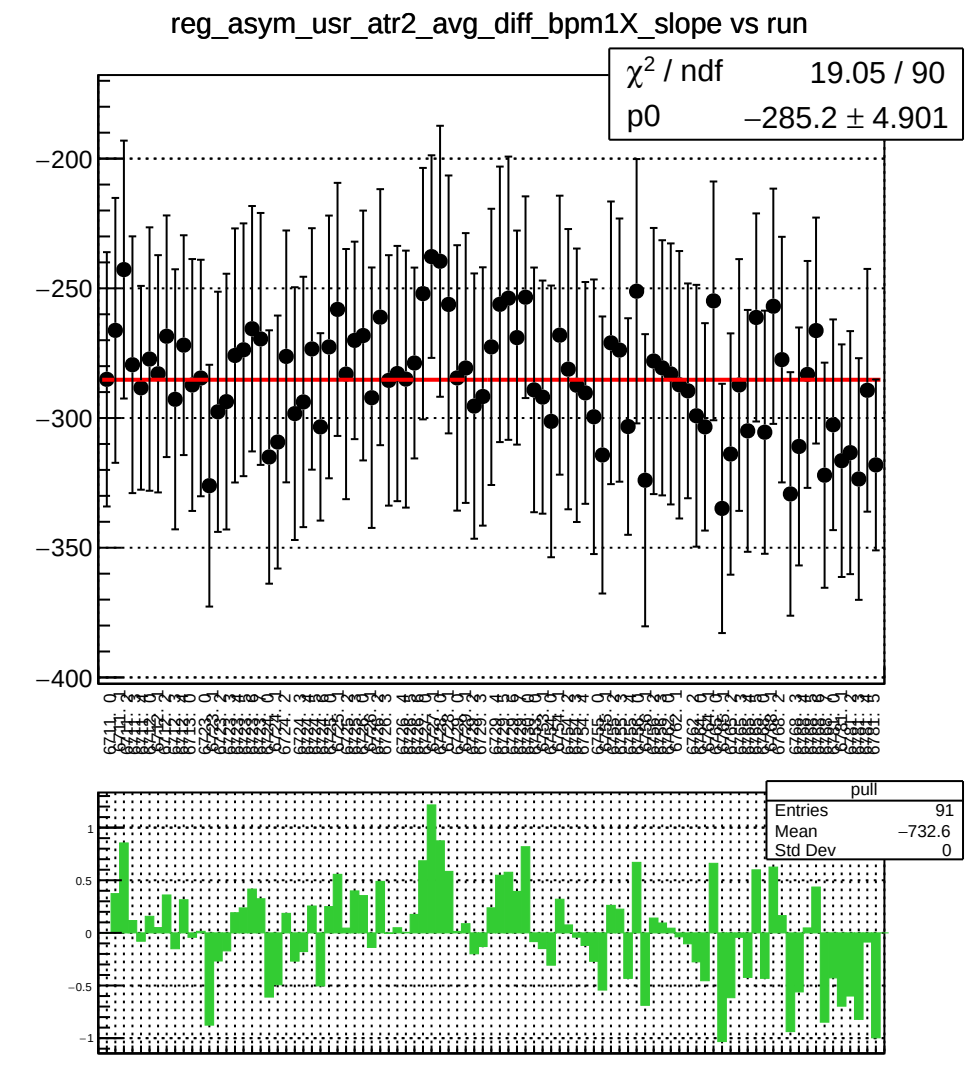

pull1D
Entries 91
Mean −0.003359
Std Dev 0.9041

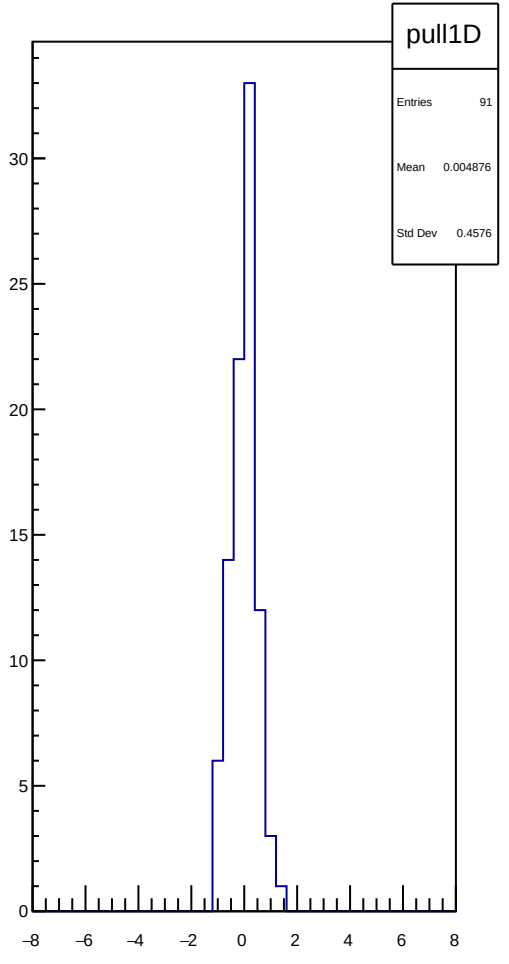

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 89.03 / 90
p0 13.09 ± 1.127
pull
Entries 91
Mean −134.9
Std Dev 0

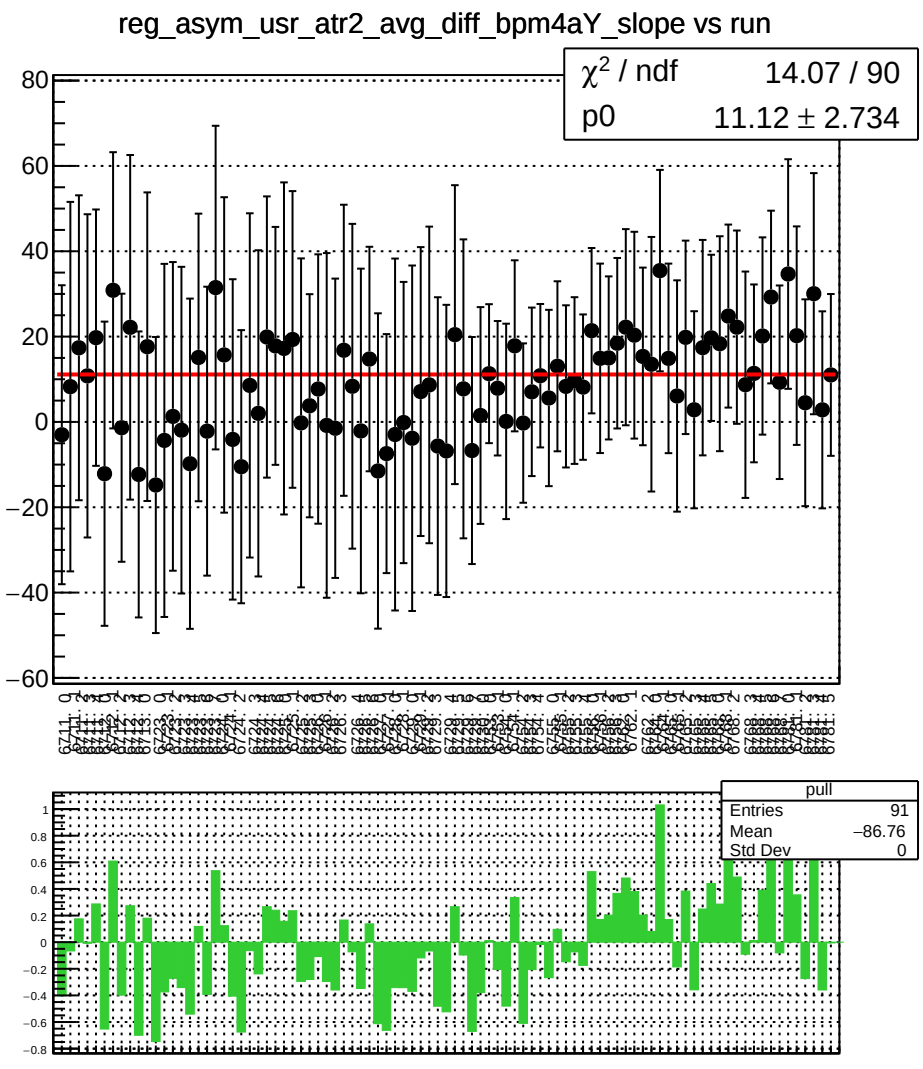

pull1D
Entries 91
Mean −0.00861
Std Dev 0.9891

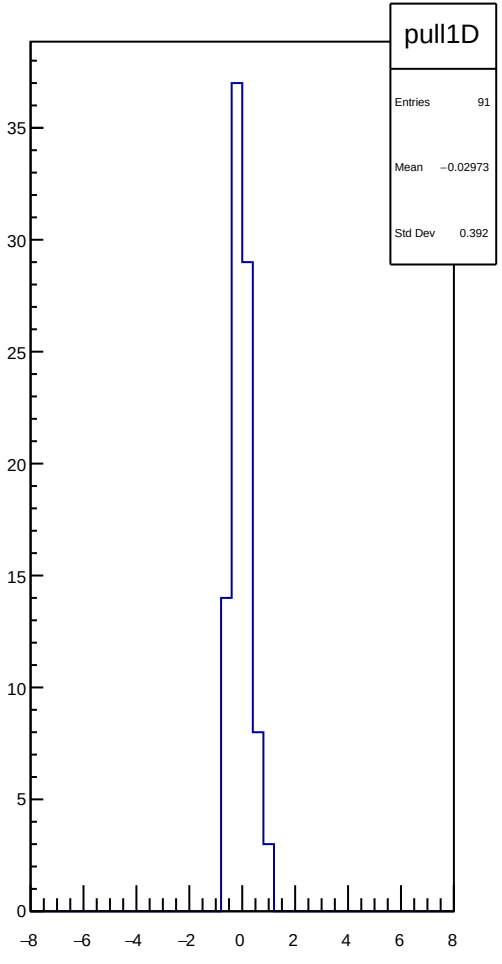

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 598 / 90
p0 −9.575 ± 0.06454
pull
Entries 91
Mean −991.3
Std Dev 0

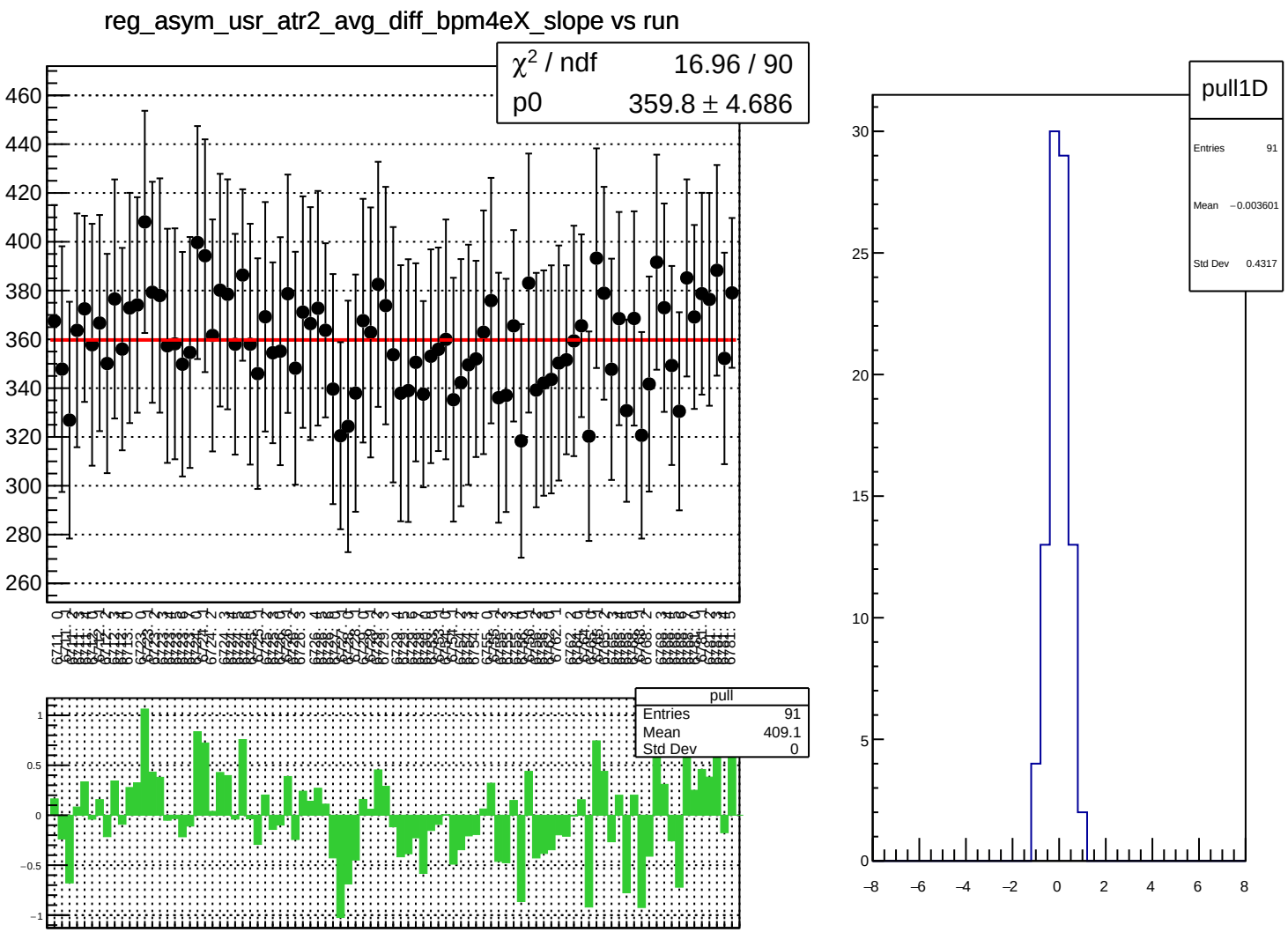

pull1D
Entries 91
Mean 0.04813
Std Dev 2.563

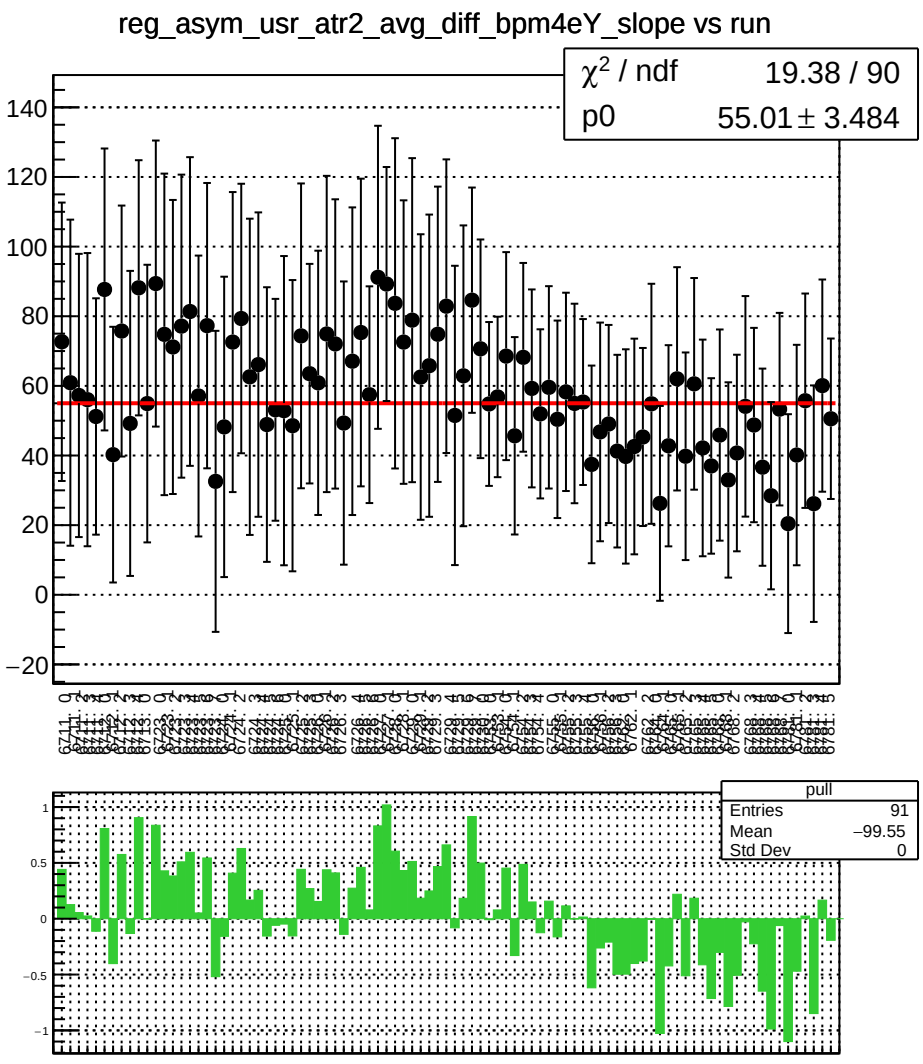

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 19.05 / 90
p0 −285.2 ± 4.901
−200
−250
−300
−350
−400
pull
Entries 91
Mean −732.6
Std Dev 0
1
0.5
0
−0.5
−1

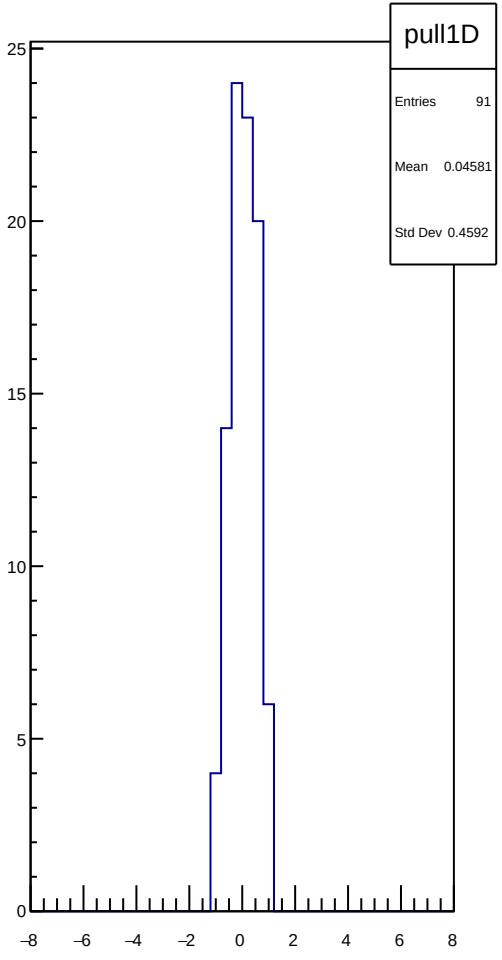

pull1D
Entries 91
Mean 0.004876
Std Dev 0.4576
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

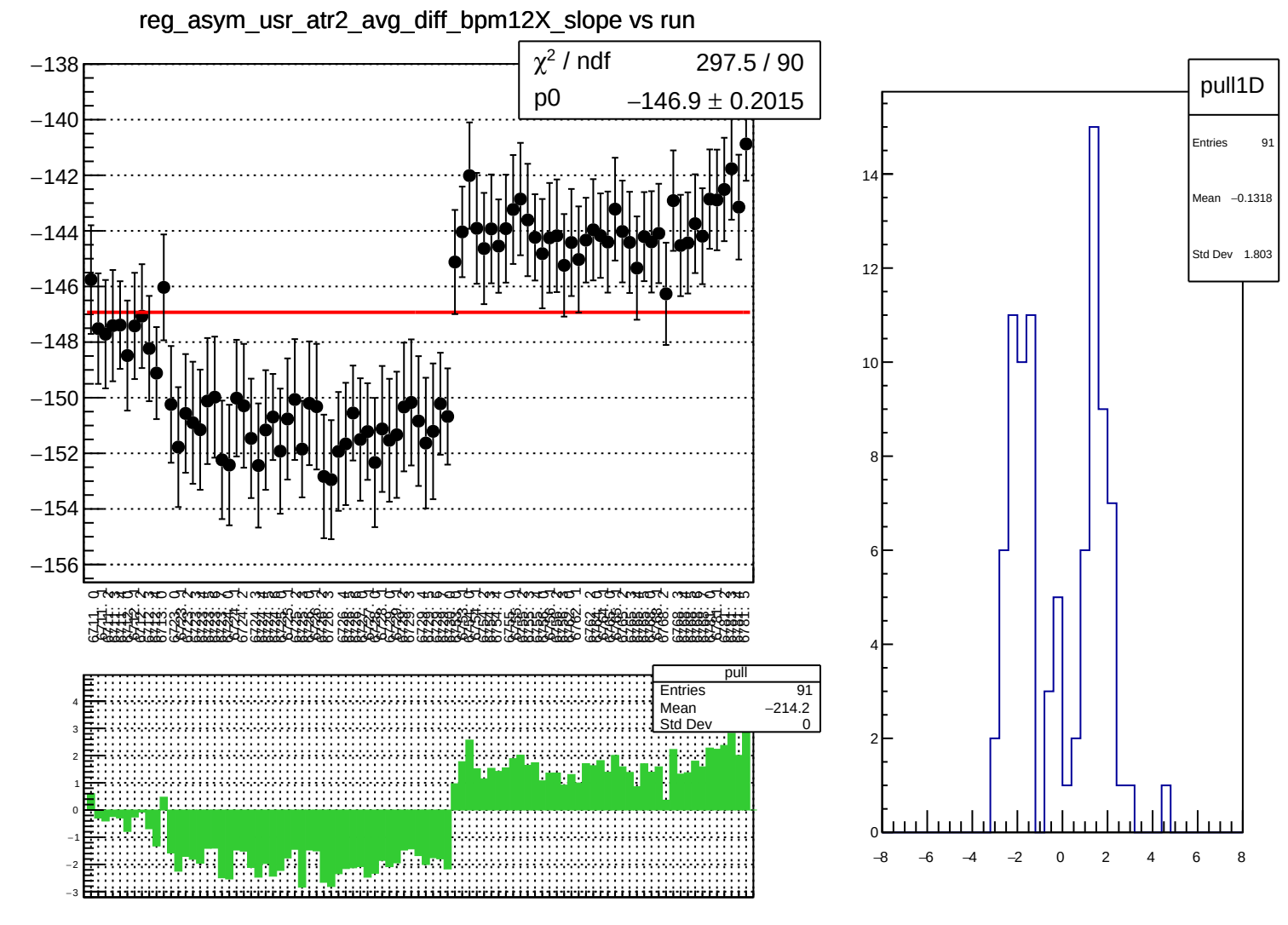

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.07 / 90
p0 11.12 ± 2.734
pull
Entries 91
Mean −86.76
Std Dev 0

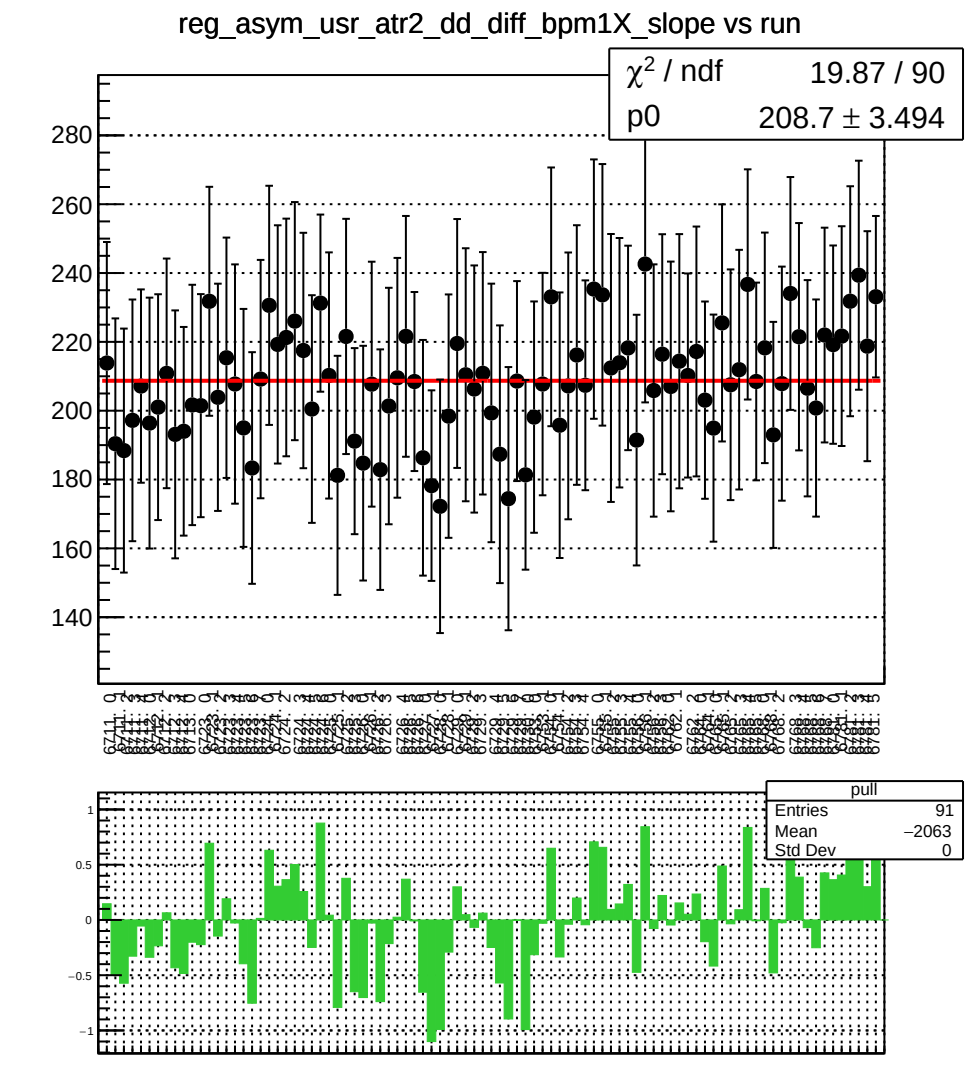

pull1D
Entries 91
Mean −0.02973
Std Dev 0.392

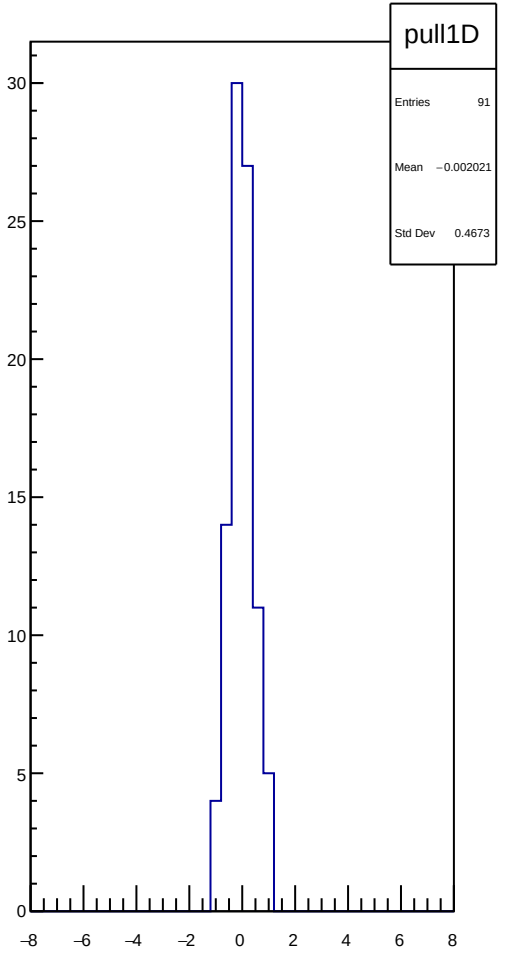

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.96 / 90
p0 359.8 ± 4.686
pull
Entries 91
Mean 409.1
Std Dev 0
pull1D
Entries 91
Mean −0.003601
Std Dev 0.4317

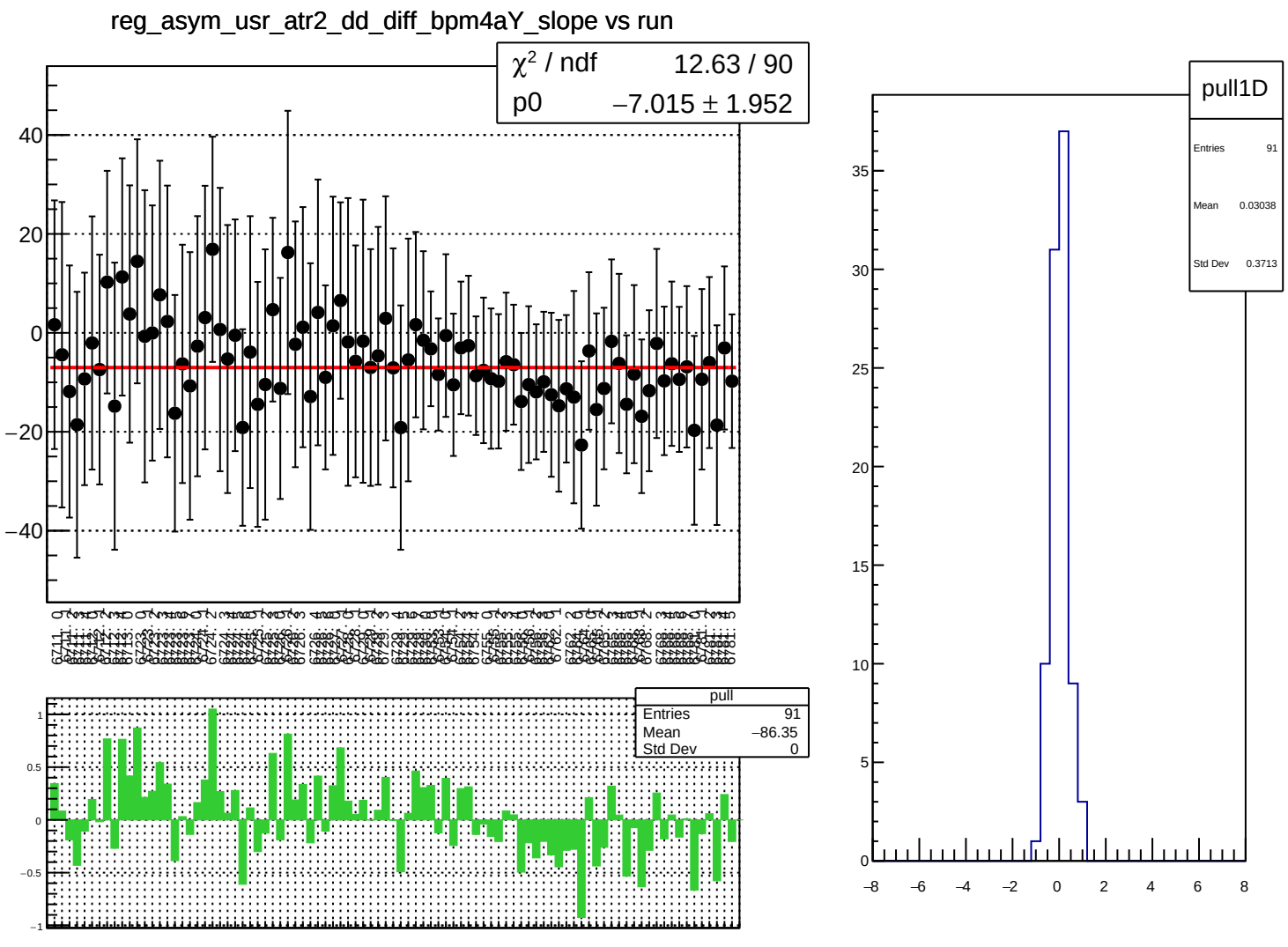

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.38 / 90
p0 55.01 ± 3.484
pull
Entries 91
Mean −99.55
Std Dev 0

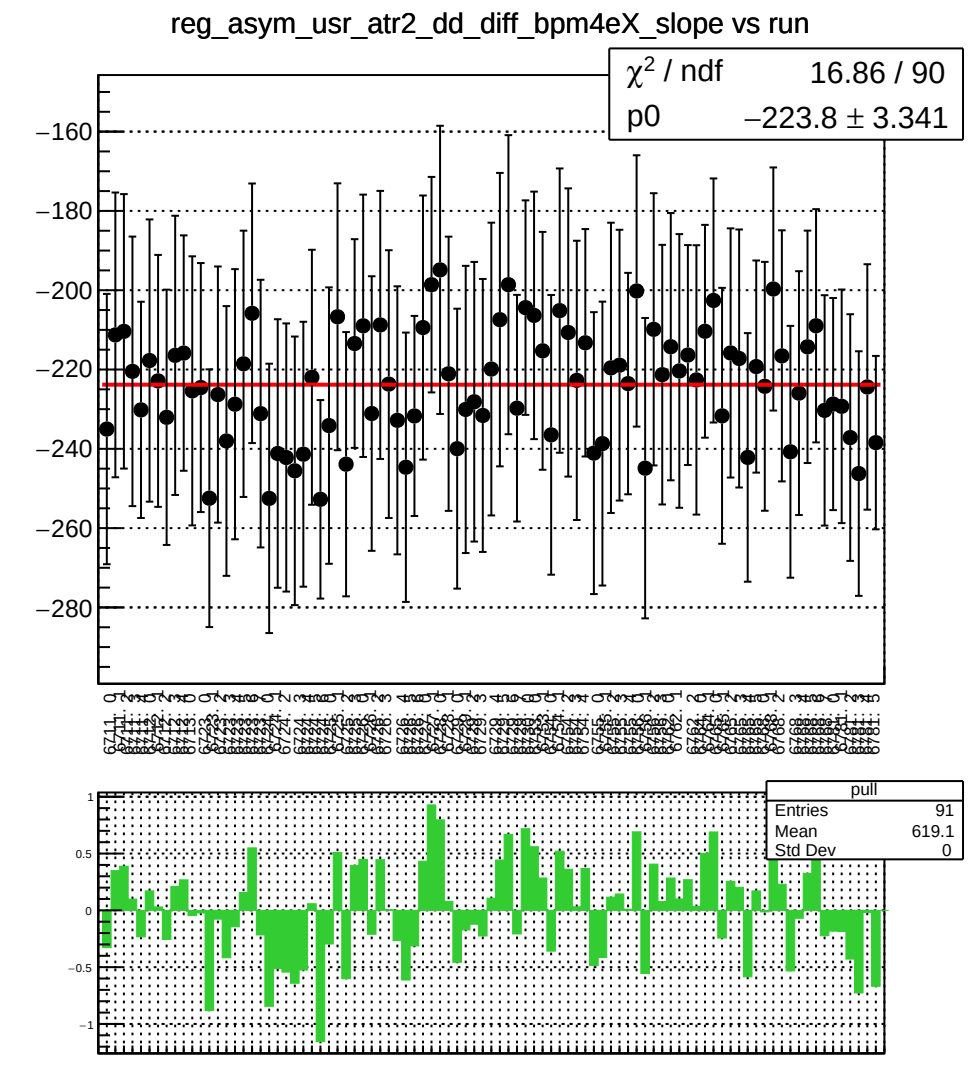

pull1D
Entries 91
Mean 0.04581
Std Dev 0.4592

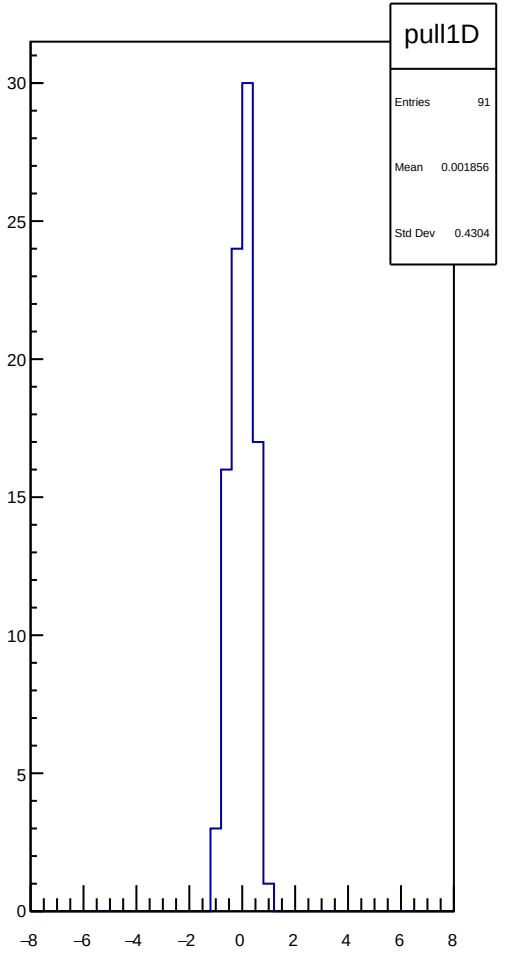

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 297.5 / 90
p0 −146.9 ± 0.2015
pull
Entries 91
Mean −214.2
Std Dev 0
pull1D
Entries 91
Mean −0.1318
Std Dev 1.803

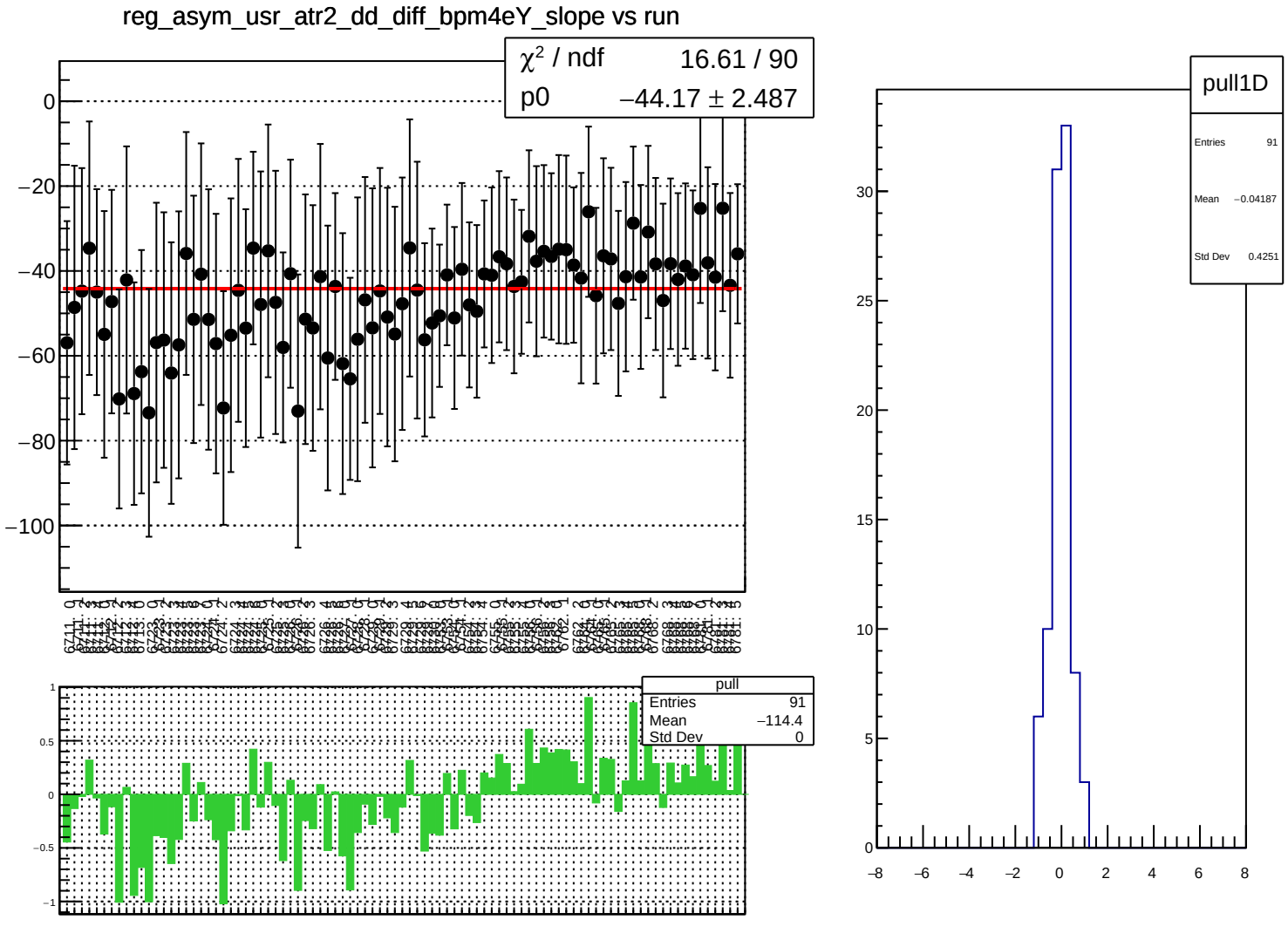

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 19.87 / 90
p0 208.7 ± 3.494
pull
Entries 91
Mean −2063
Std Dev 0

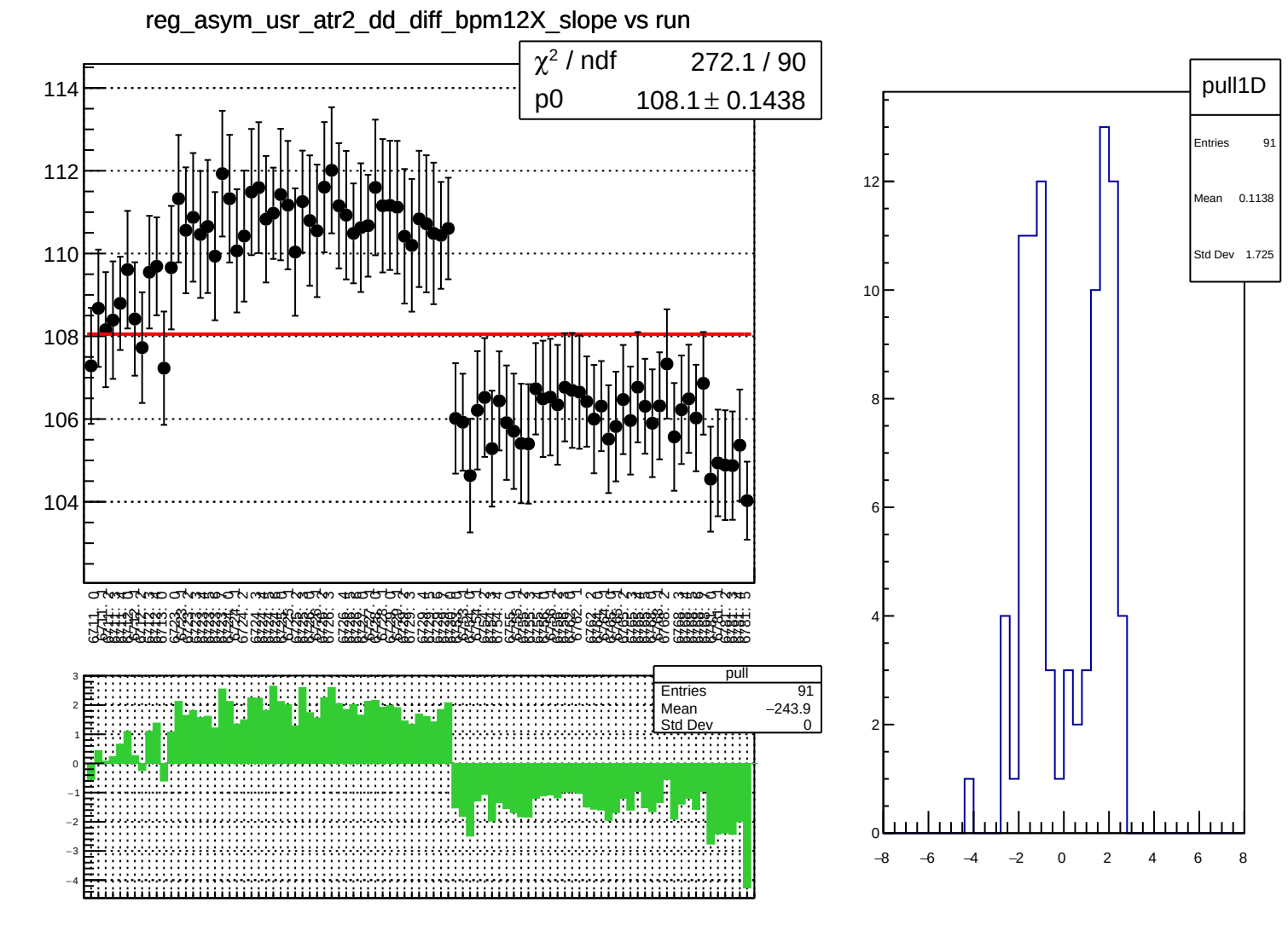

pull1D
Entries 91
Mean −0.002021
Std Dev 0.4673

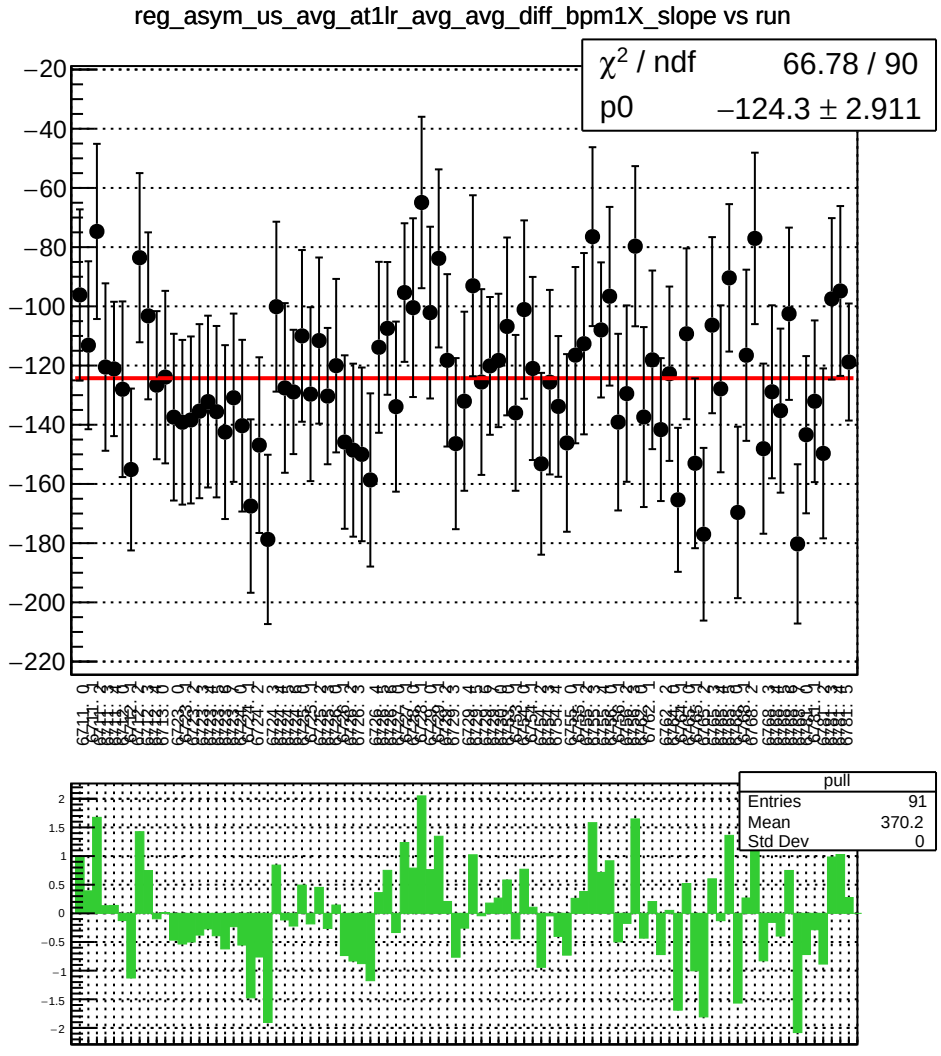

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.63 / 90
p0 −7.015 ± 1.952
40
20
0
−20
−40
pull
Entries 91
Mean −86.35
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 91
Mean 0.03038
Std Dev 0.3713
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

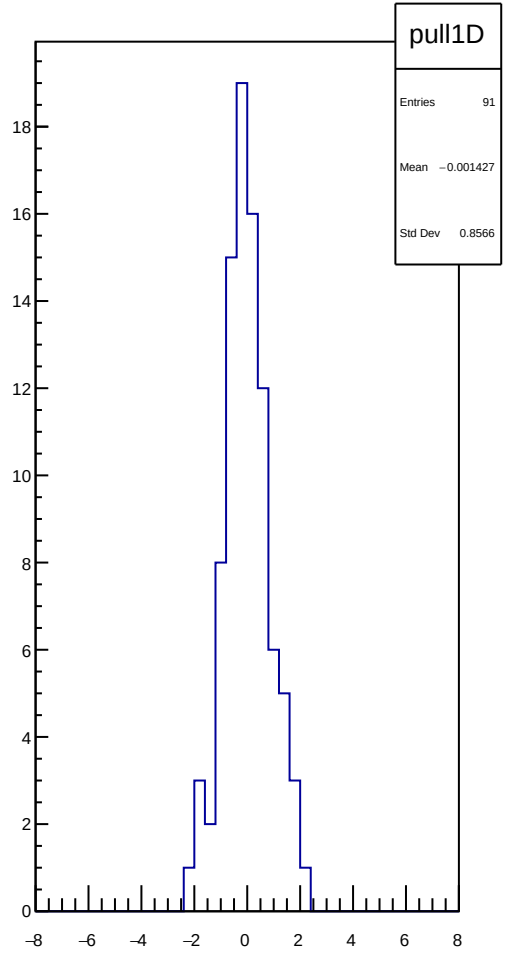

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.86 / 90
p0 −223.8 ± 3.341
pull
Entries 91
Mean 619.1
Std Dev 0

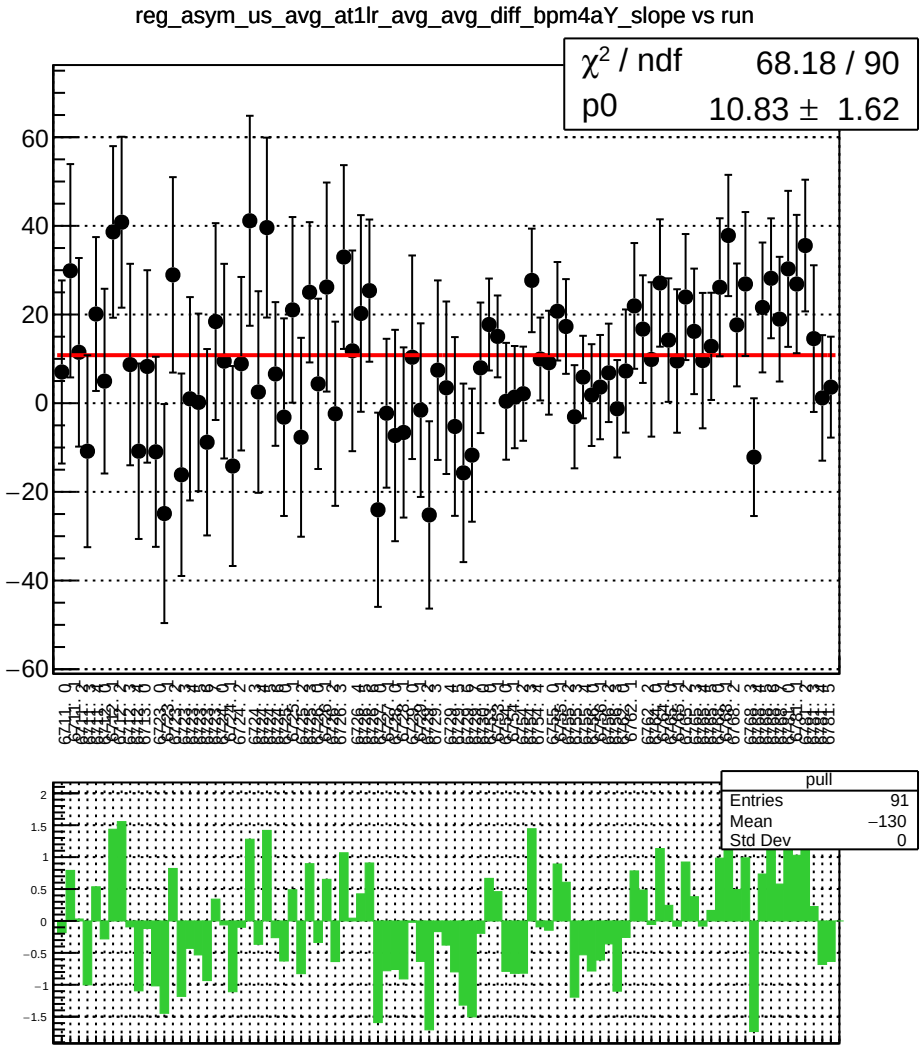

pull1D
Entries 91
Mean 0.001856
Std Dev 0.4304

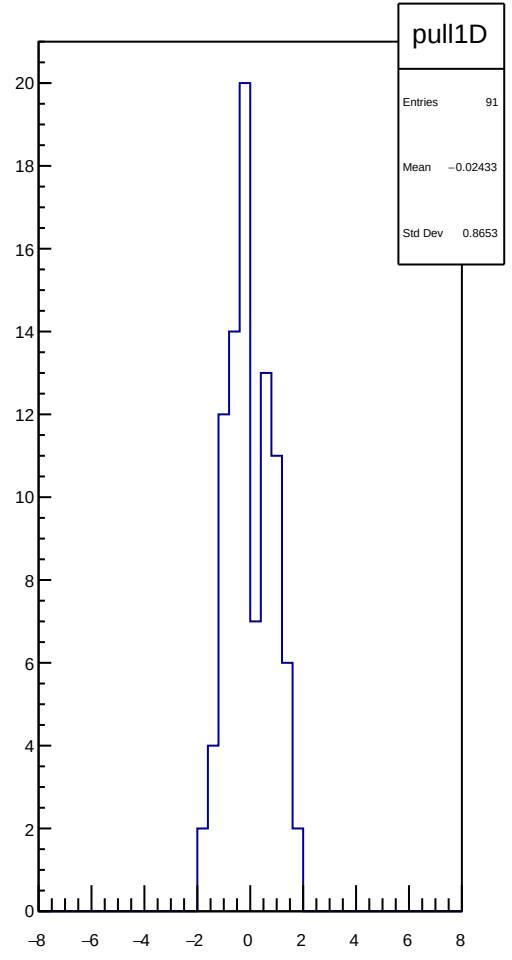

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.61 / 90
p0 −44.17 ± 2.487
0
−20
−40
−60
−80
−100
pull
Entries 91
Mean −114.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 91
Mean −0.04187
Std Dev 0.4251
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

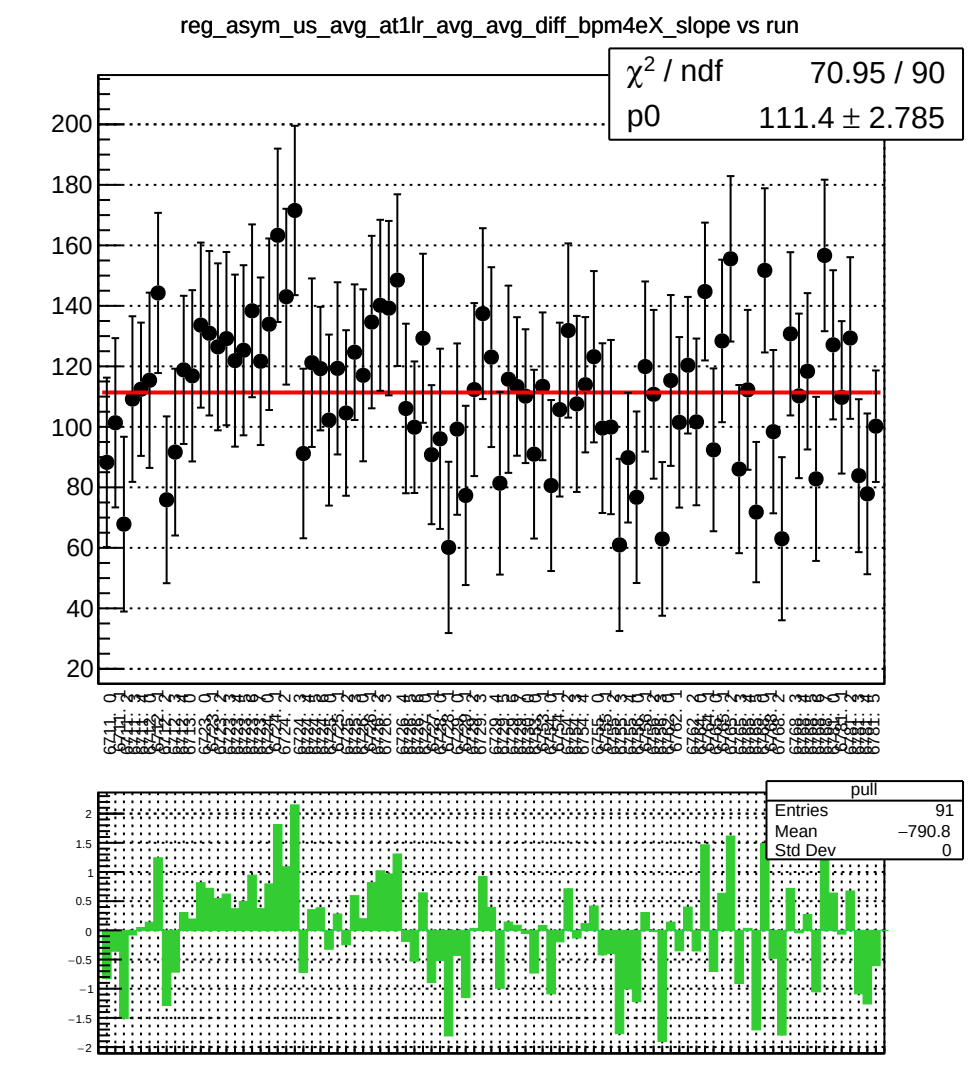

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 272.1 / 90
p0 108.1 ± 0.1438
pull
Entries 91
Mean −243.9
Std Dev 0
pull1D
Entries 91
Mean 0.1138
Std Dev 1.725

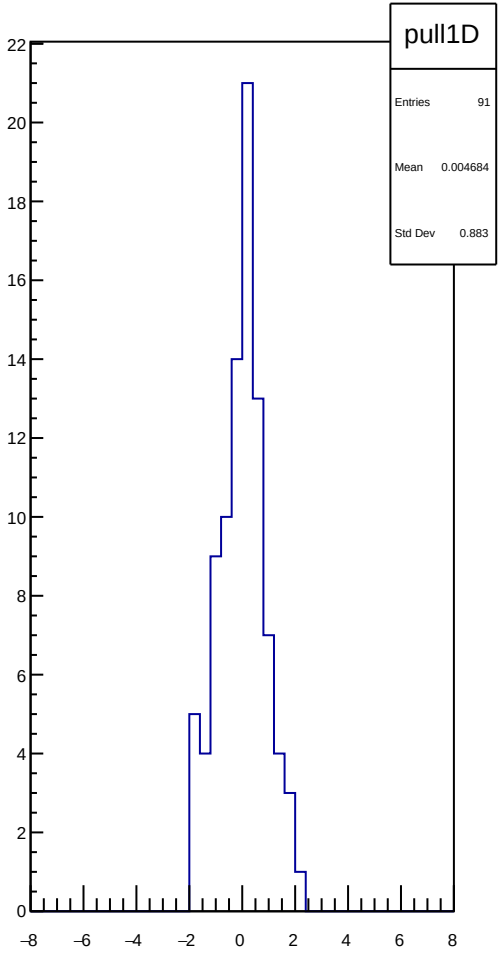

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 66.78 / 90
p0 −124.3 ± 2.911
pull
Entries 91
Mean 370.2
Std Dev 0

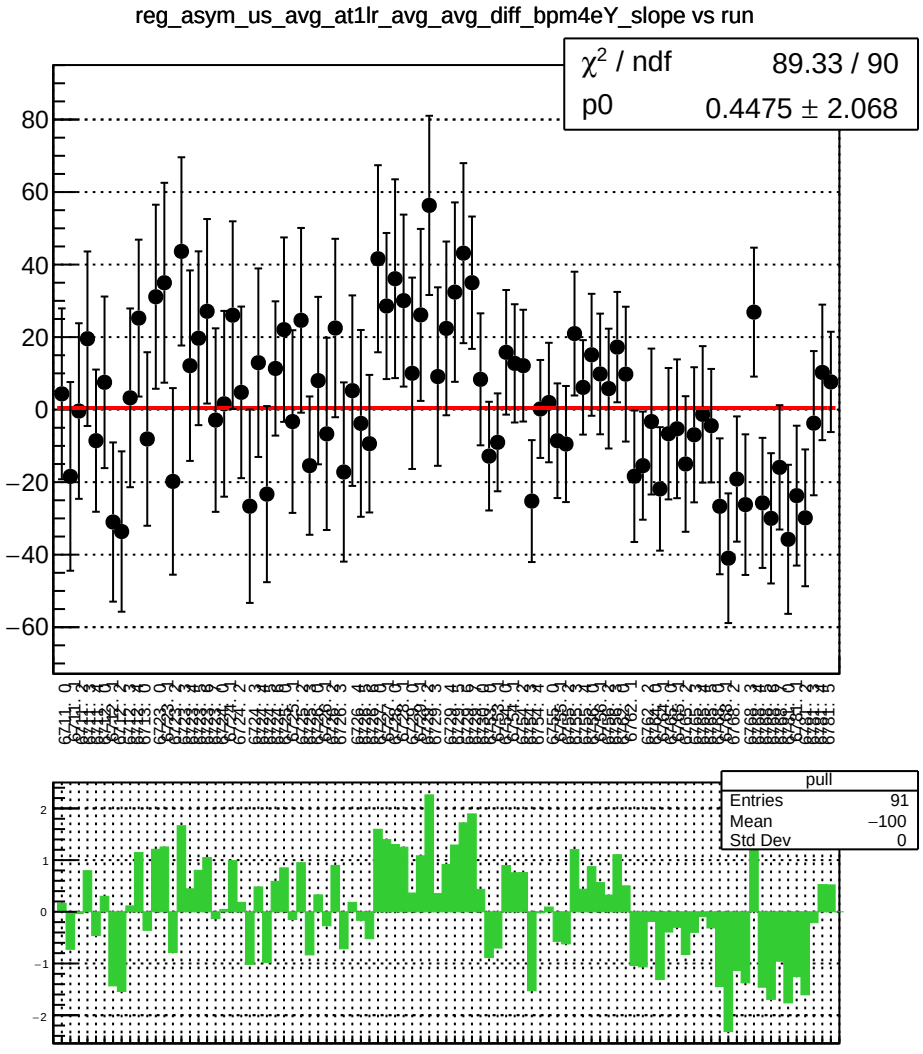

pull1D
Entries 91
Mean −0.001427
Std Dev 0.8566

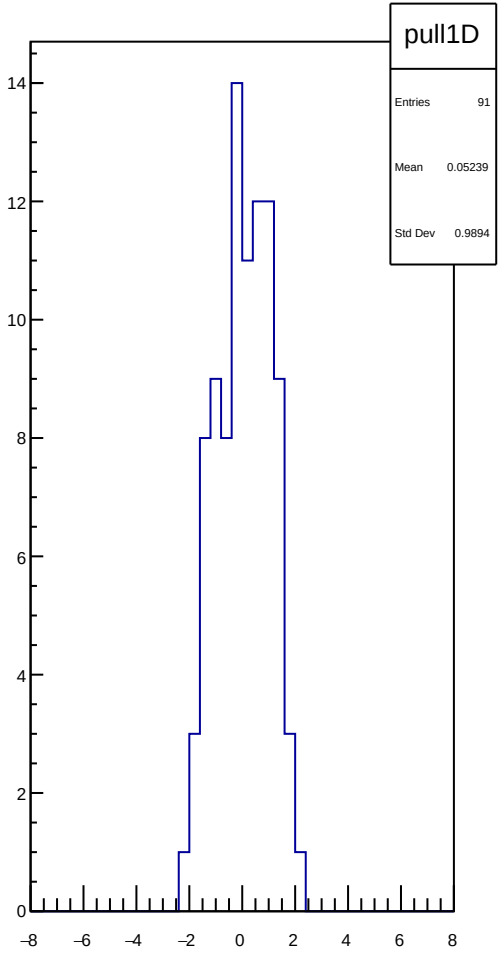

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 68.18 / 90
p0 10.83 ± 1.62
pull
Entries 91
Mean −130
Std Dev 0

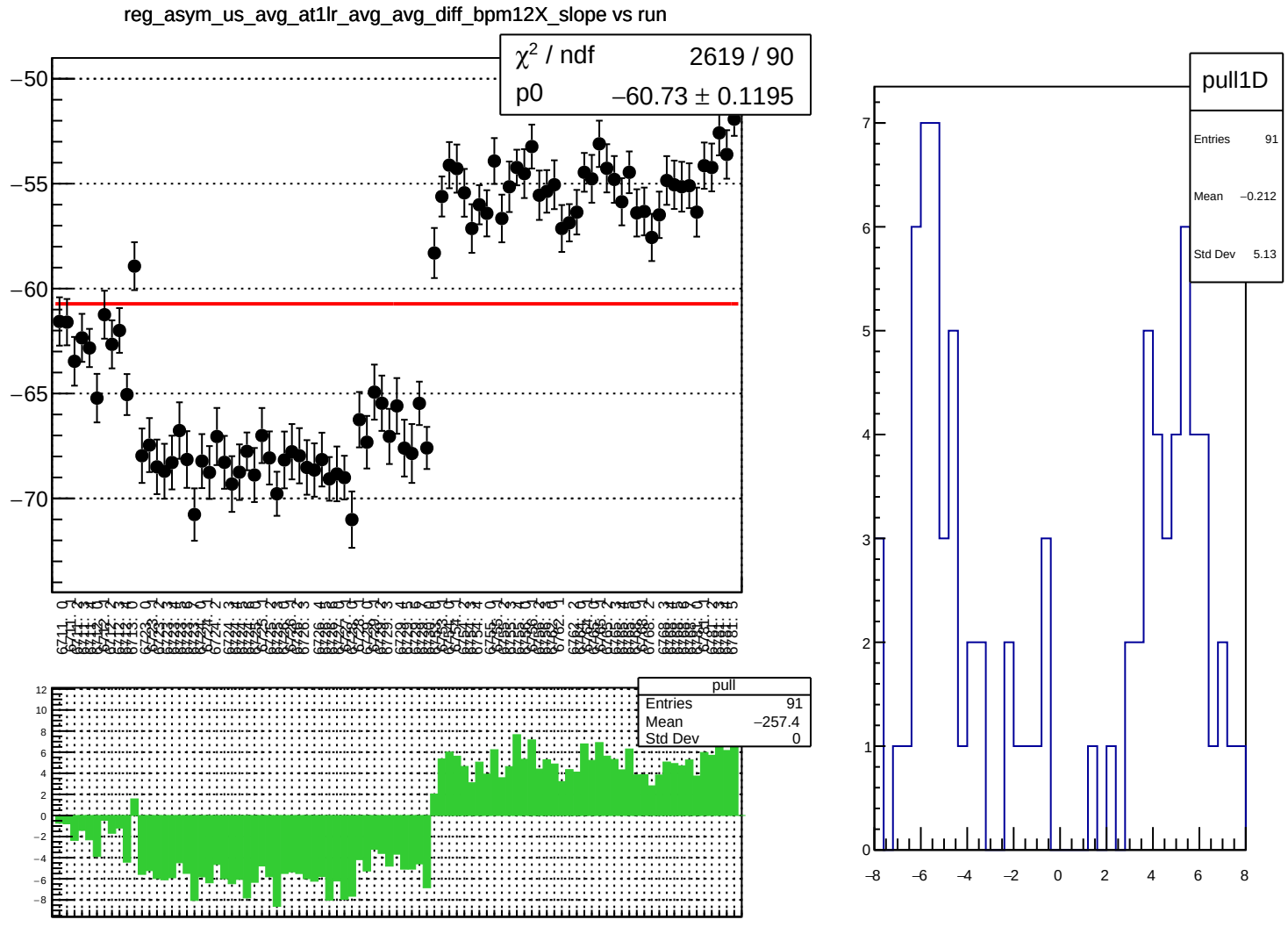

pull1D
Entries 91
Mean −0.02433
Std Dev 0.8653

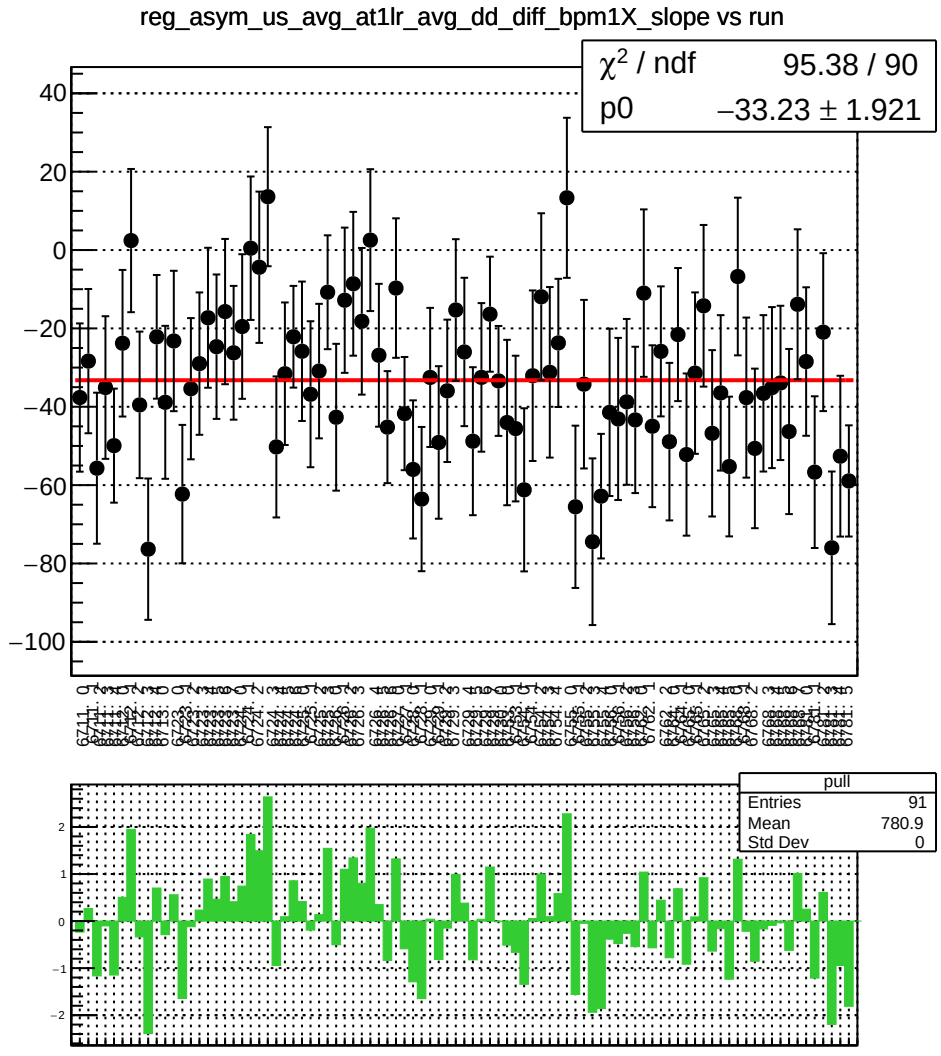

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 70.95 / 90
p0 111.4 ± 2.785
pull
Entries 91
Mean −790.8
Std Dev 0

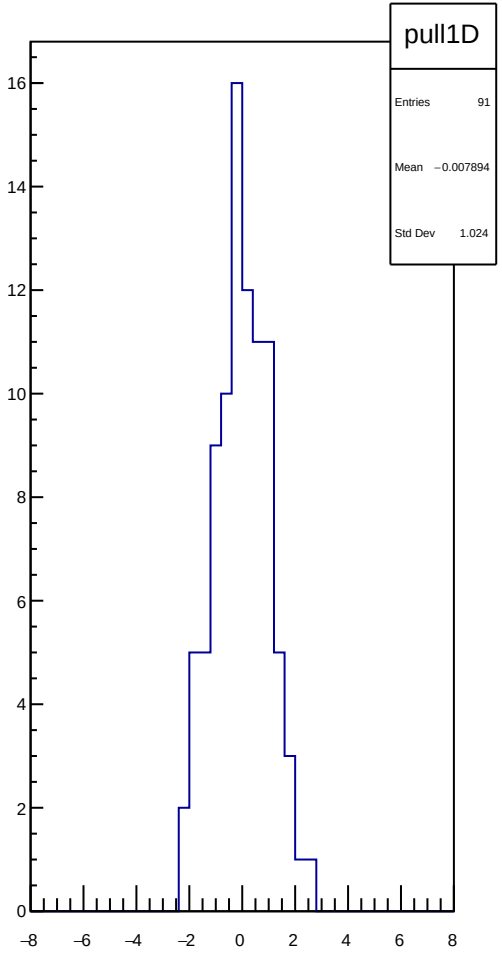

pull1D
Entries 91
Mean 0.004684
Std Dev 0.883

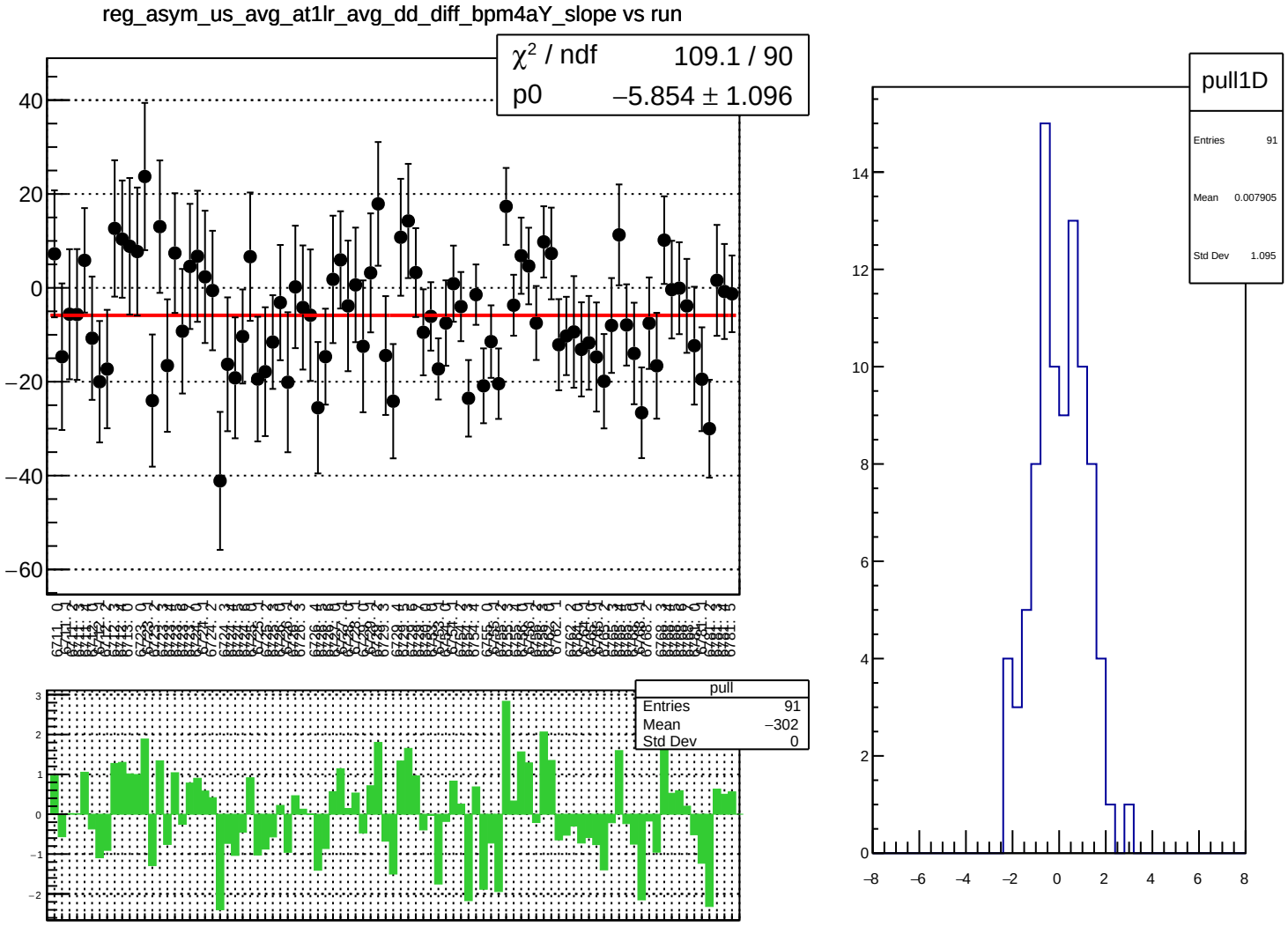

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 89.33 / 90
p0 0.4475 ± 2.068
pull
Entries 91
Mean −100
Std Dev 0

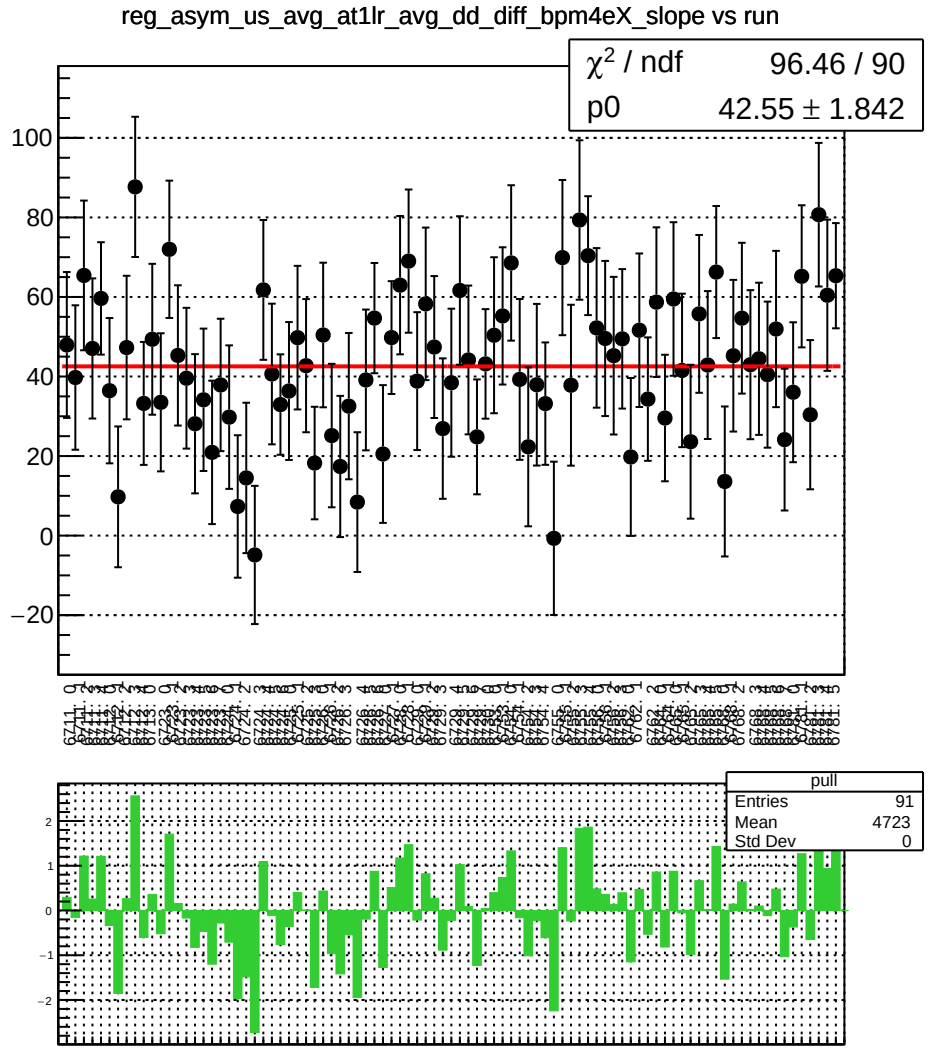

pull1D
Entries 91
Mean 0.05239
Std Dev 0.9894

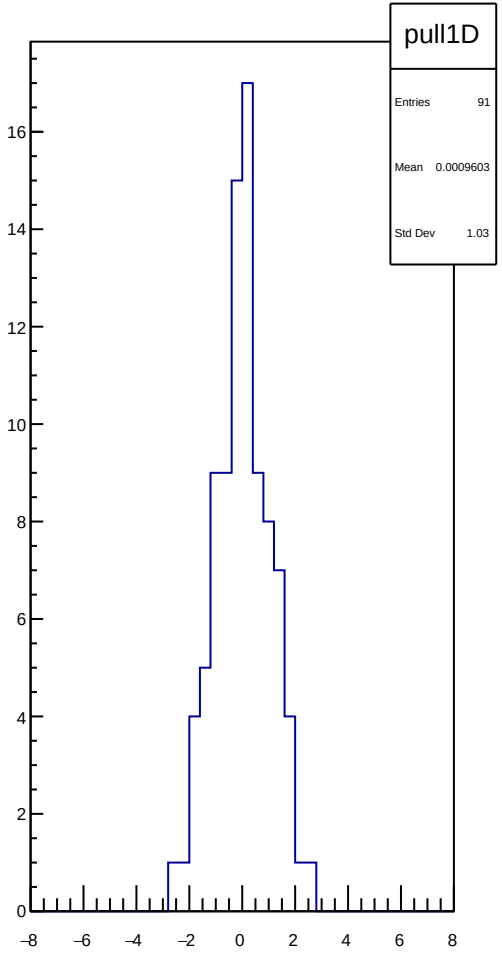

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 2619 / 90
p0 −60.73 ± 0.1195
−50
−55
−60
−65
−70
pull
Entries 91
Mean −257.4
Std Dev 0
12
10
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 91
Mean −0.212
Std Dev 5.13
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

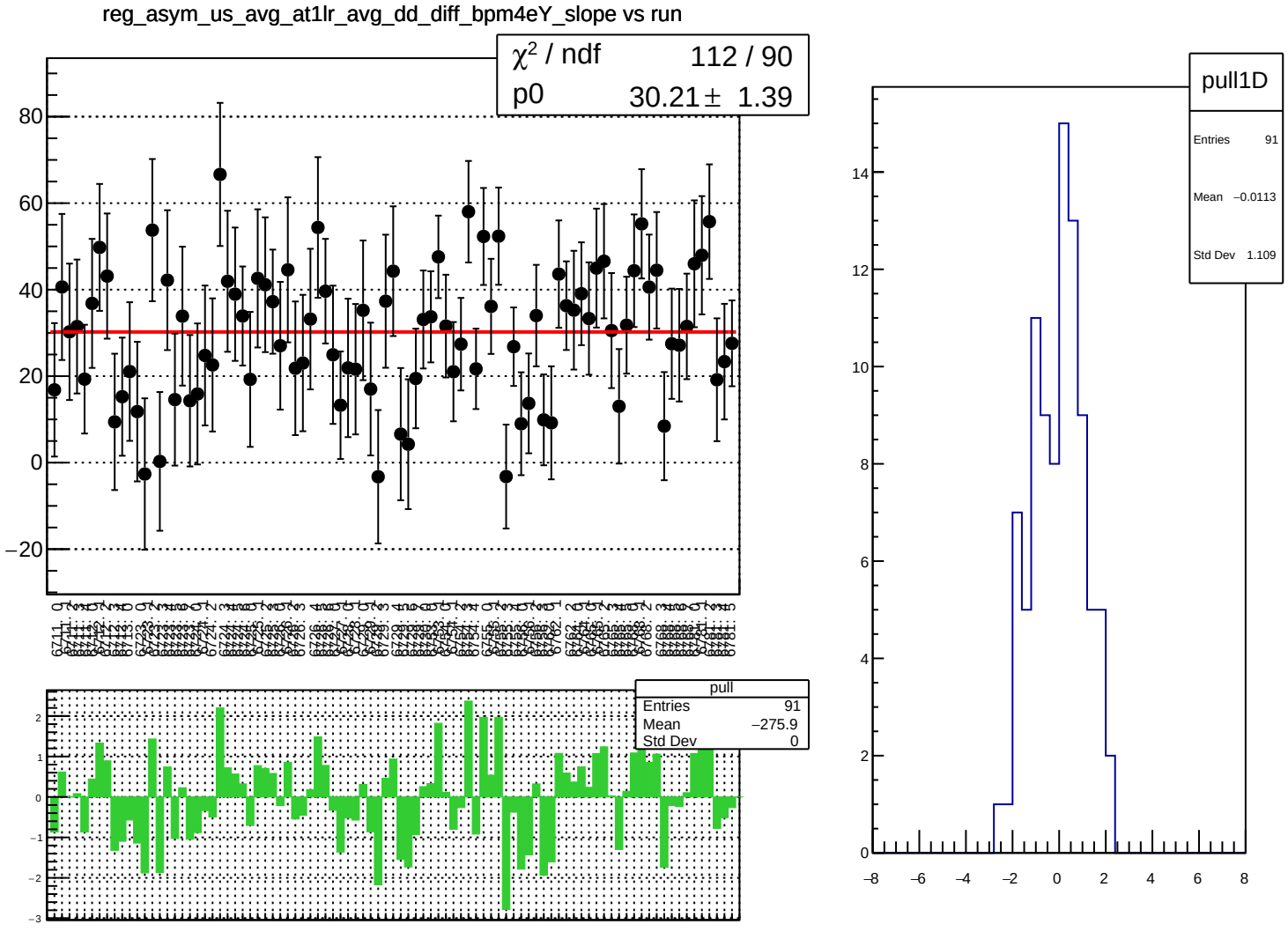

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 95.38 / 90
p0 −33.23 ± 1.921
pull
Entries 91
Mean 780.9
Std Dev 0

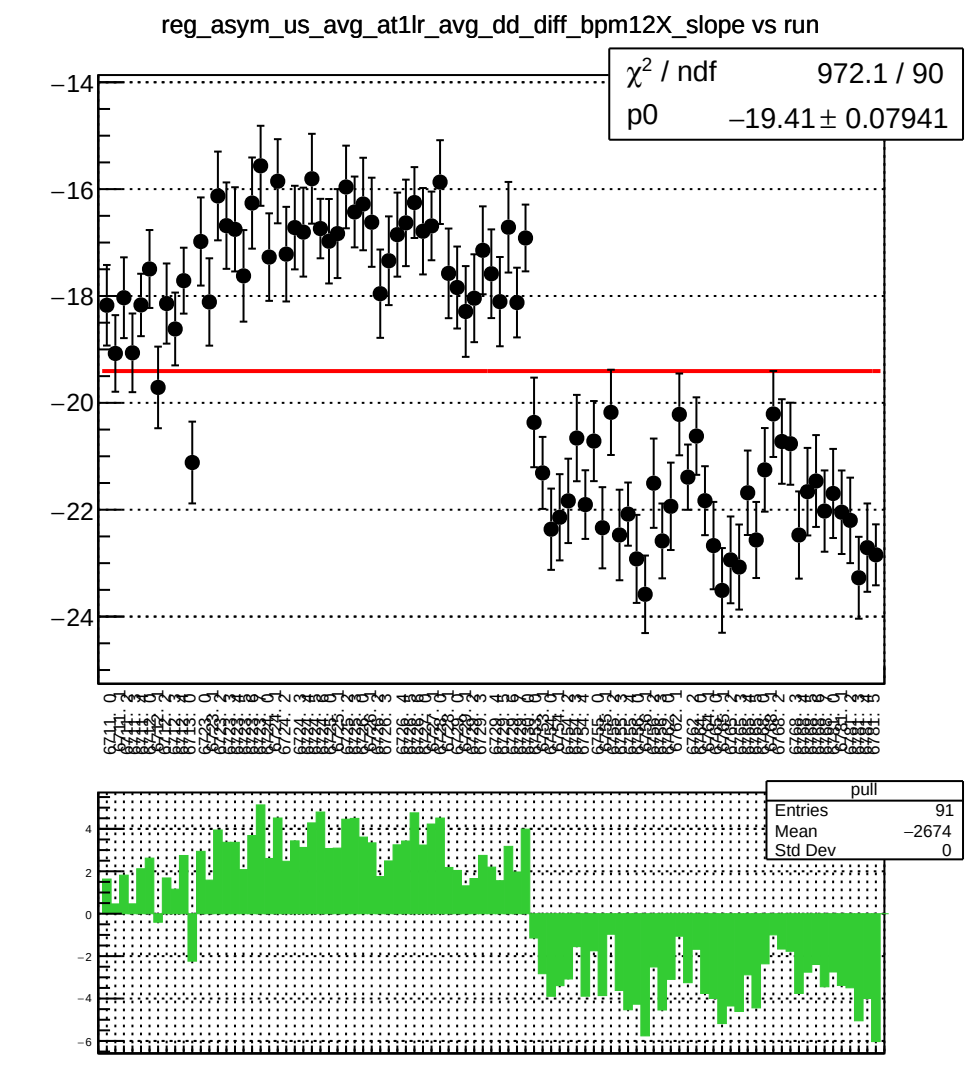

pull1D
Entries 91
Mean −0.007894
Std Dev 1.024

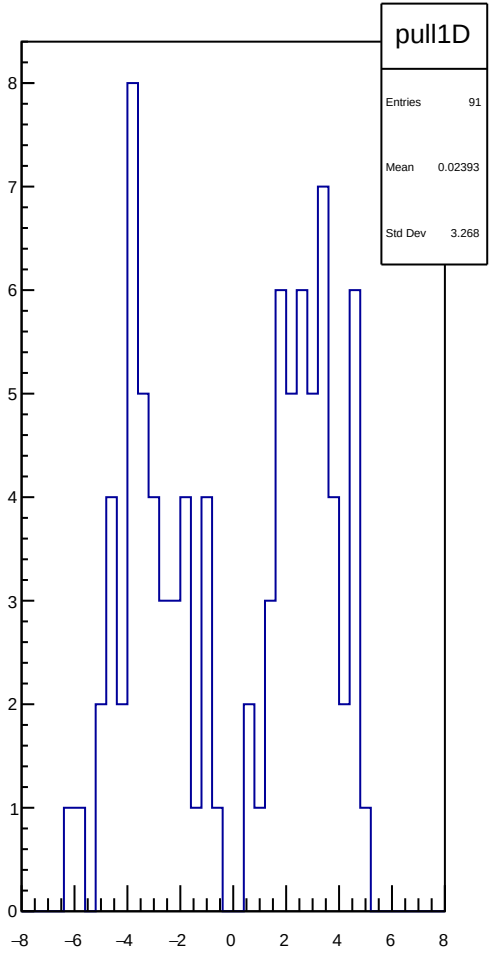

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 109.1 / 90
p0 −5.854 ± 1.096
pull
Entries 91
Mean −302
Std Dev 0
pull1D
Entries 91
Mean 0.007905
Std Dev 1.095

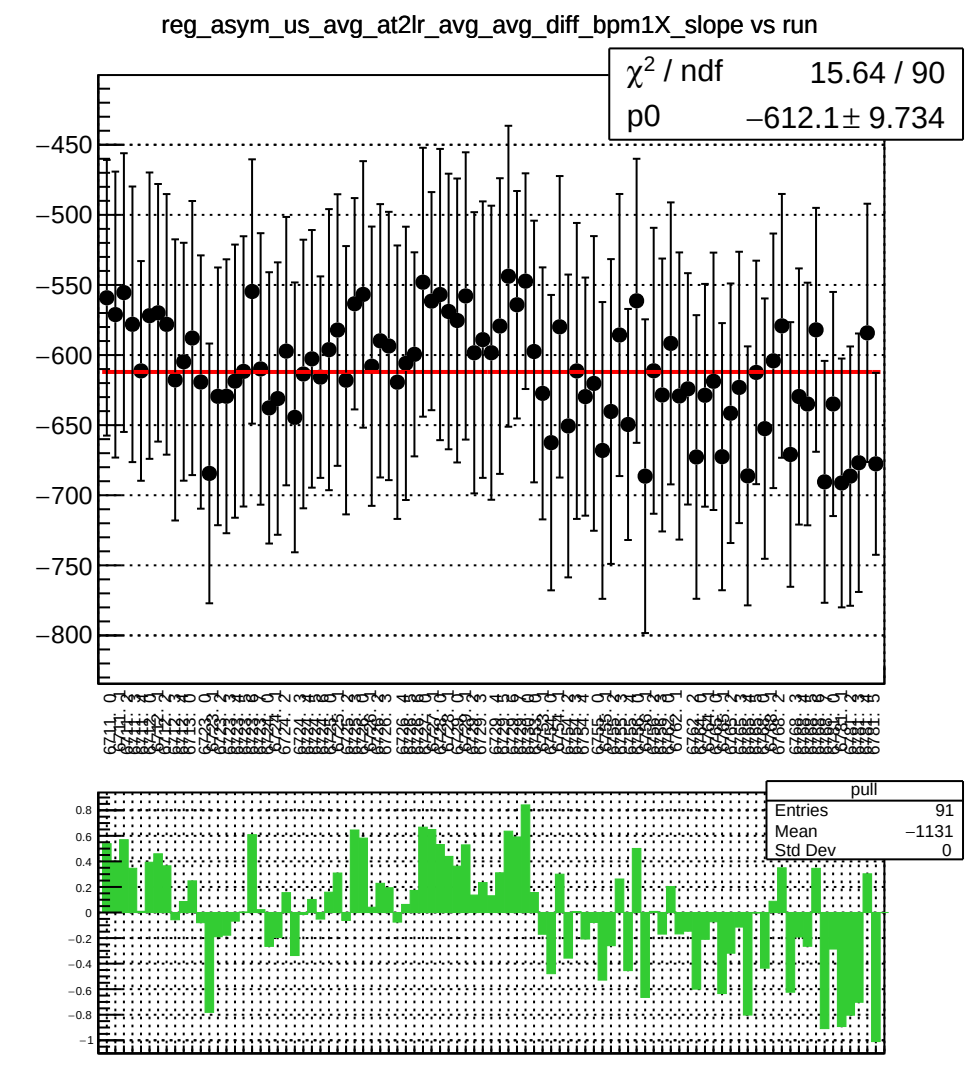

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 96.46 / 90
p0 42.55 ± 1.842
pull
Entries 91
Mean 4723
Std Dev 0

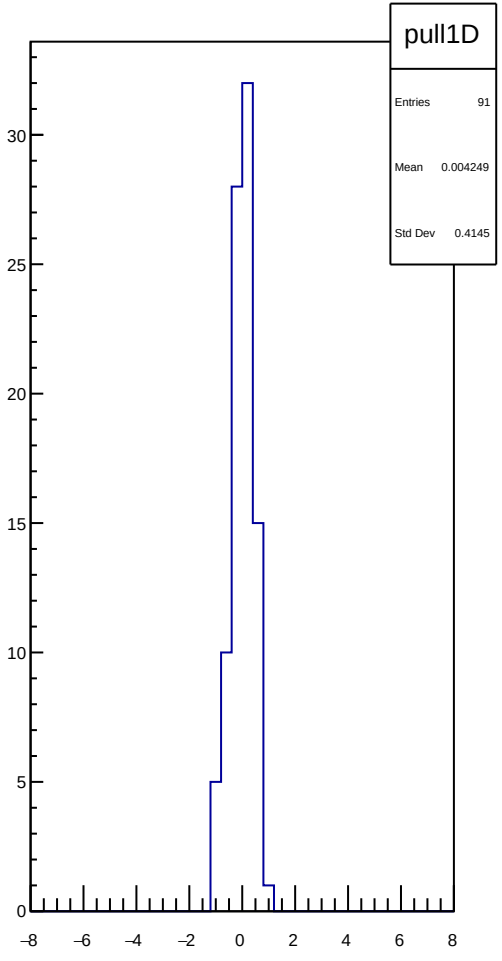

pull1D
Entries 91
Mean 0.0009603
Std Dev 1.03

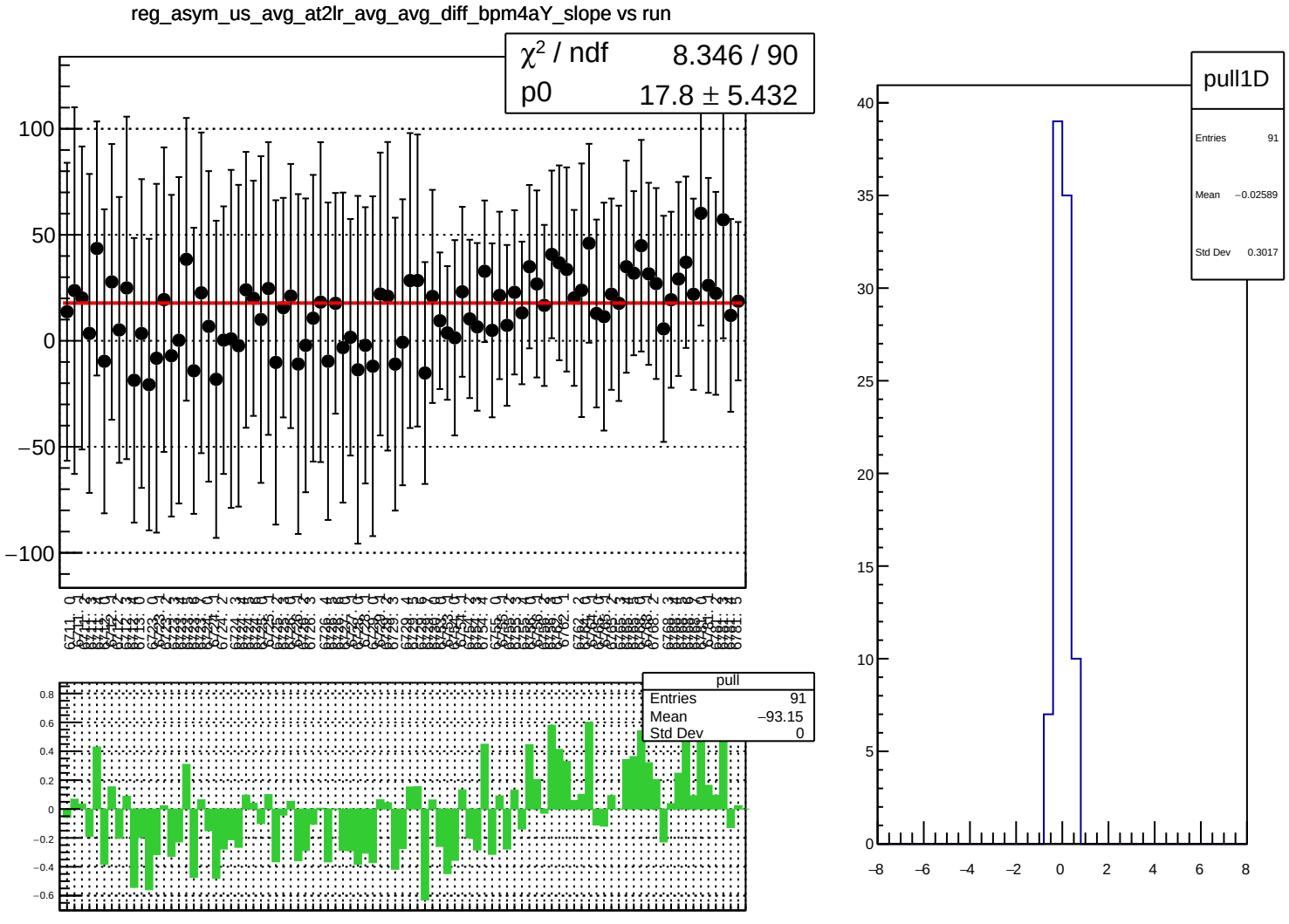

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 112 / 90
p0 30.21 ± 1.39
pull
Entries 91
Mean −275.9
Std Dev 0
pull1D
Entries 91
Mean −0.0113
Std Dev 1.109

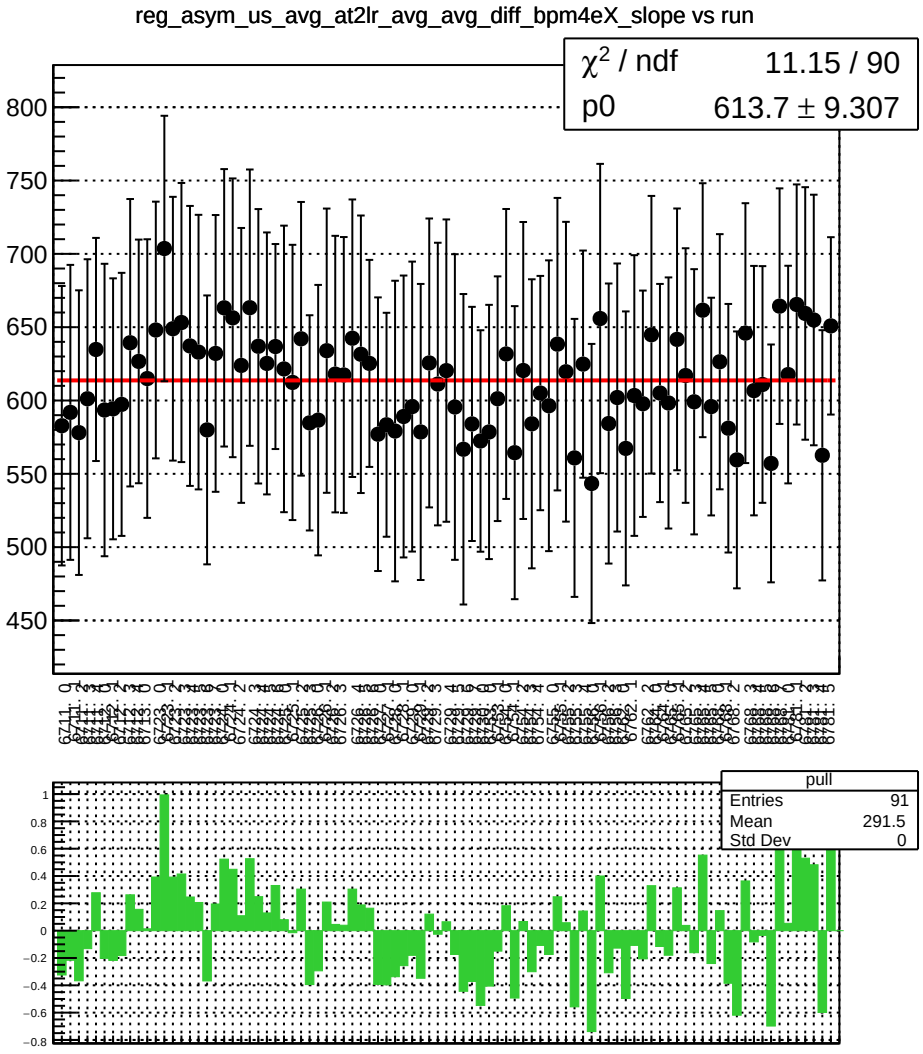

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 972.1 / 90
p0 −19.41 ± 0.07941
pull
Entries 91
Mean −2674
Std Dev 0

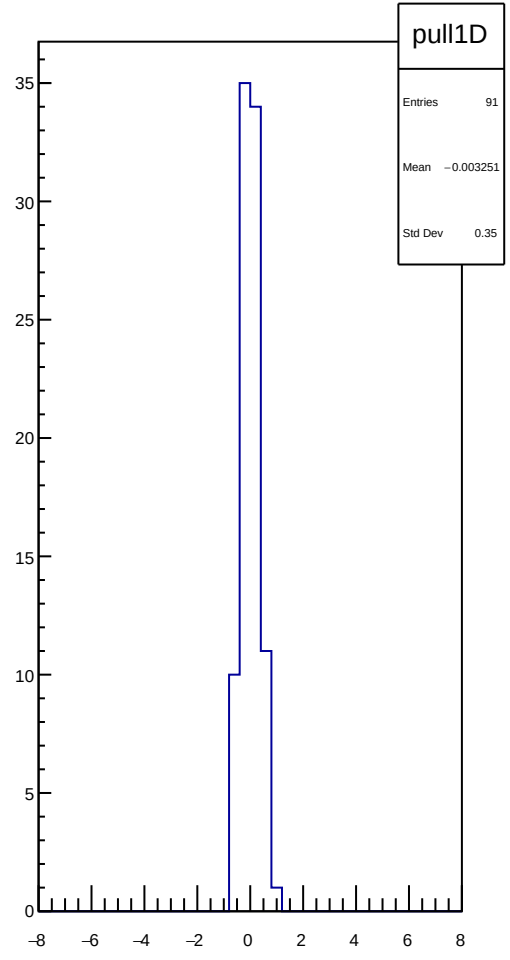

pull1D
Entries 91
Mean 0.02393
Std Dev 3.268

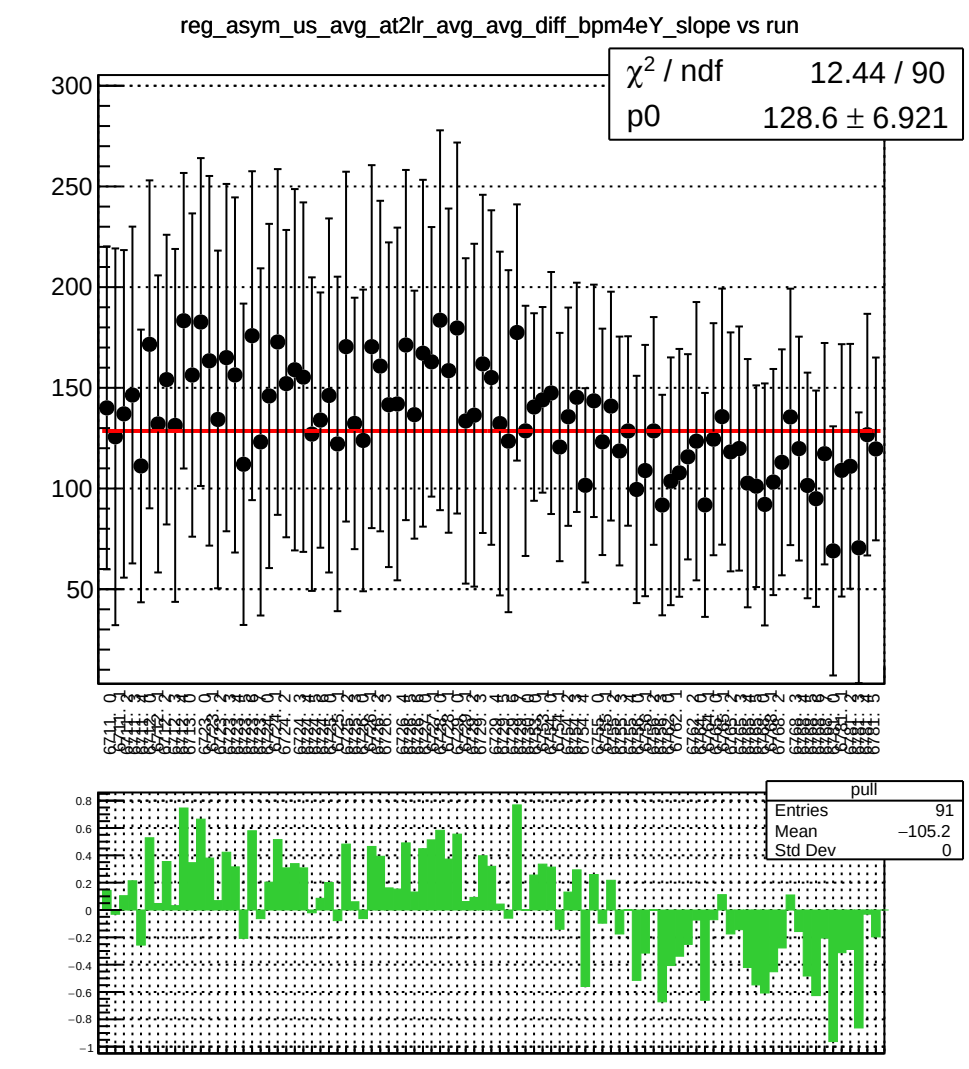

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 15.64 / 90
p0 −612.1± 9.734
pull
Entries 91
Mean −1131
Std Dev 0

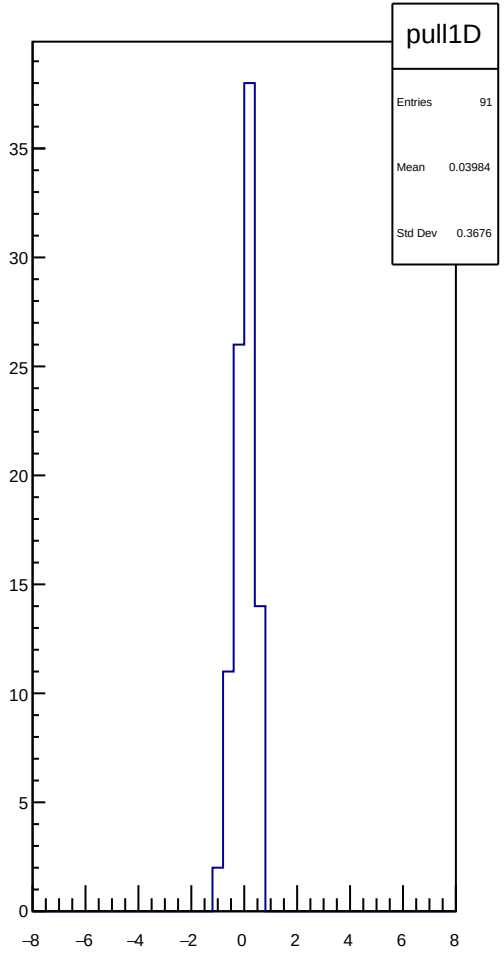

pull1D
Entries 91
Mean 0.004249
Std Dev 0.4145

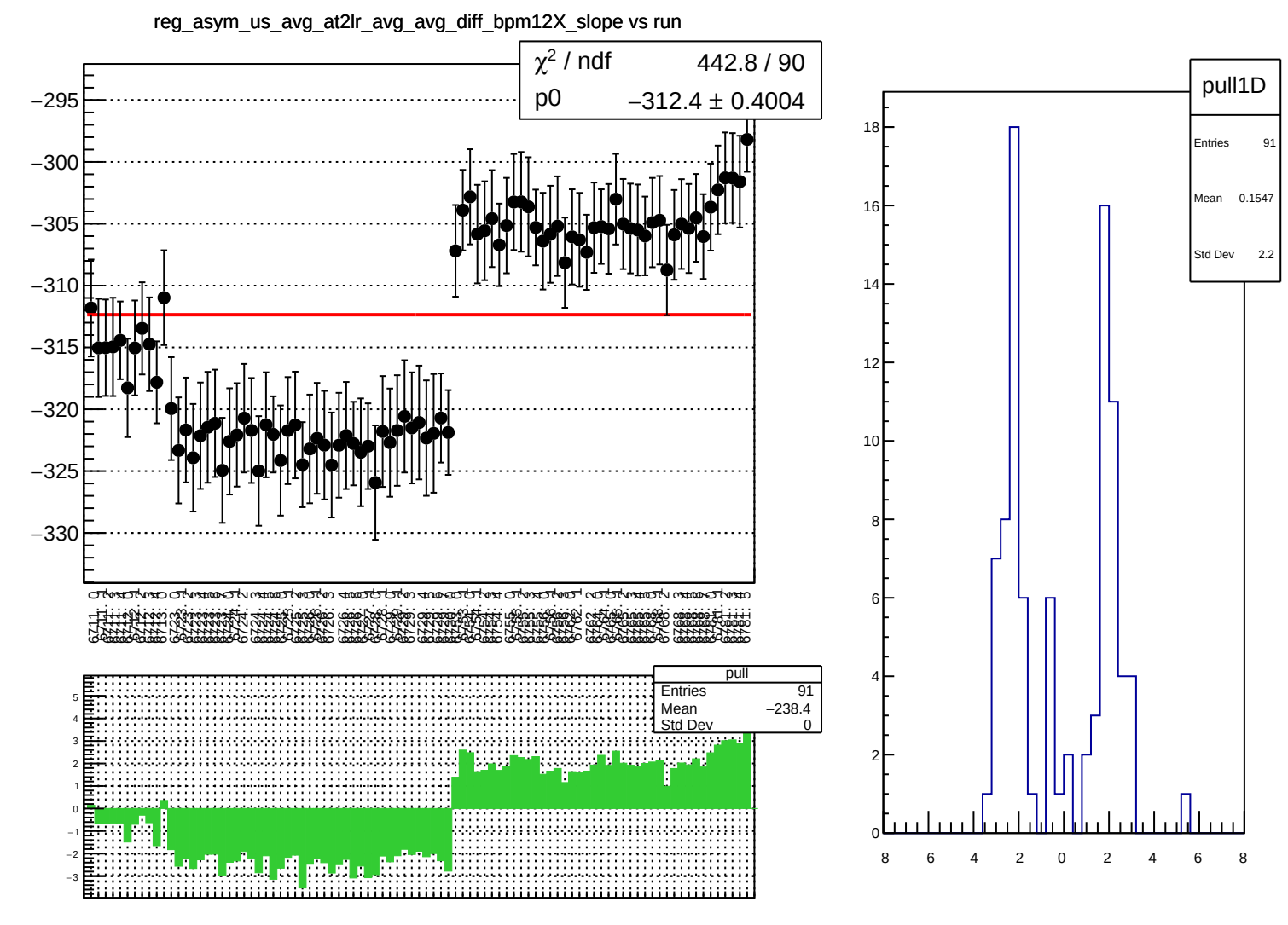

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.346 / 90
p0 17.8 ± 5.432
pull
Entries 91
Mean −93.15
Std Dev 0
pull1D
Entries 91
Mean −0.02589
Std Dev 0.3017

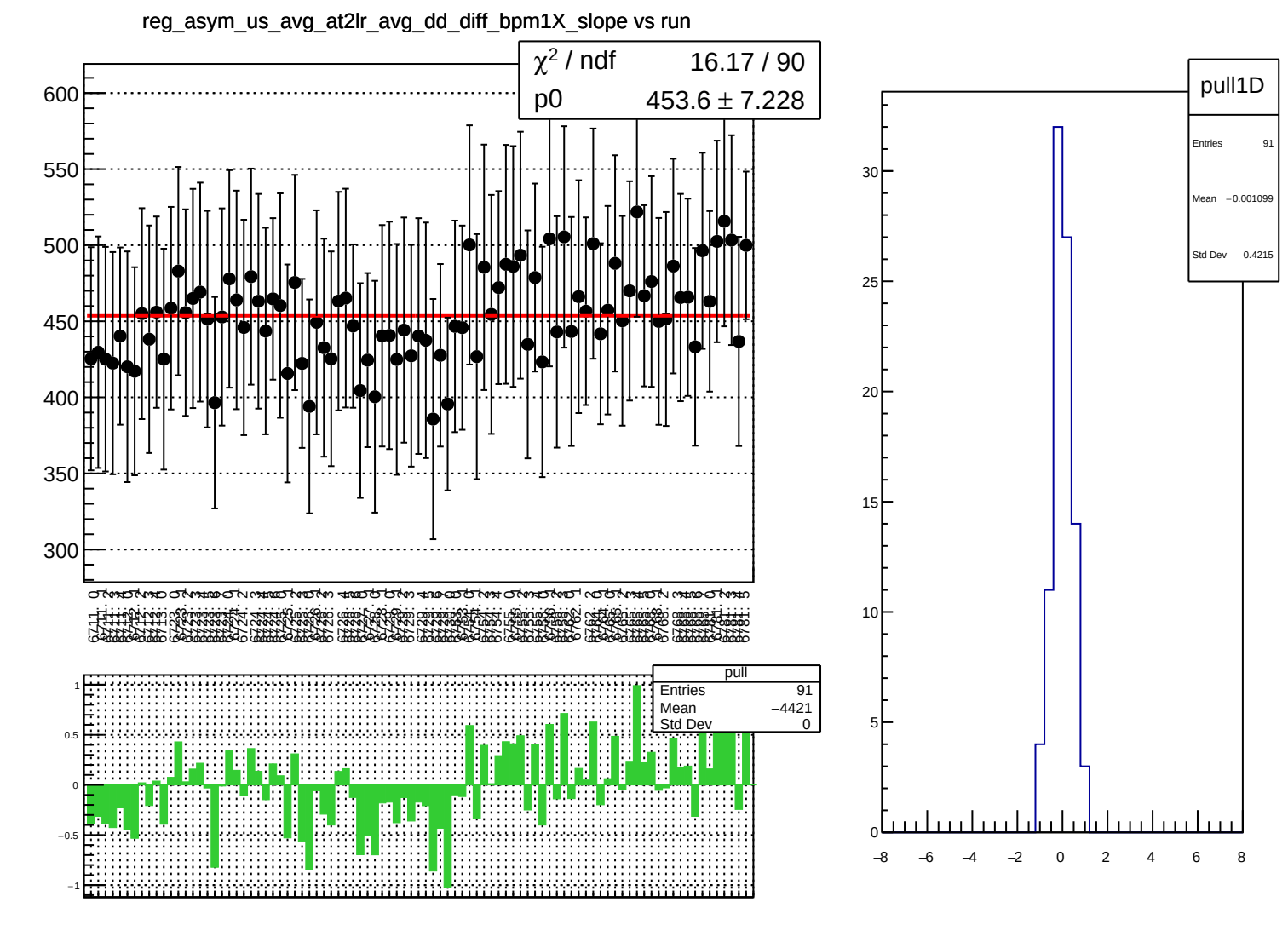

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.15 / 90
p0 613.7 ± 9.307
pull
Entries 91
Mean 291.5
Std Dev 0

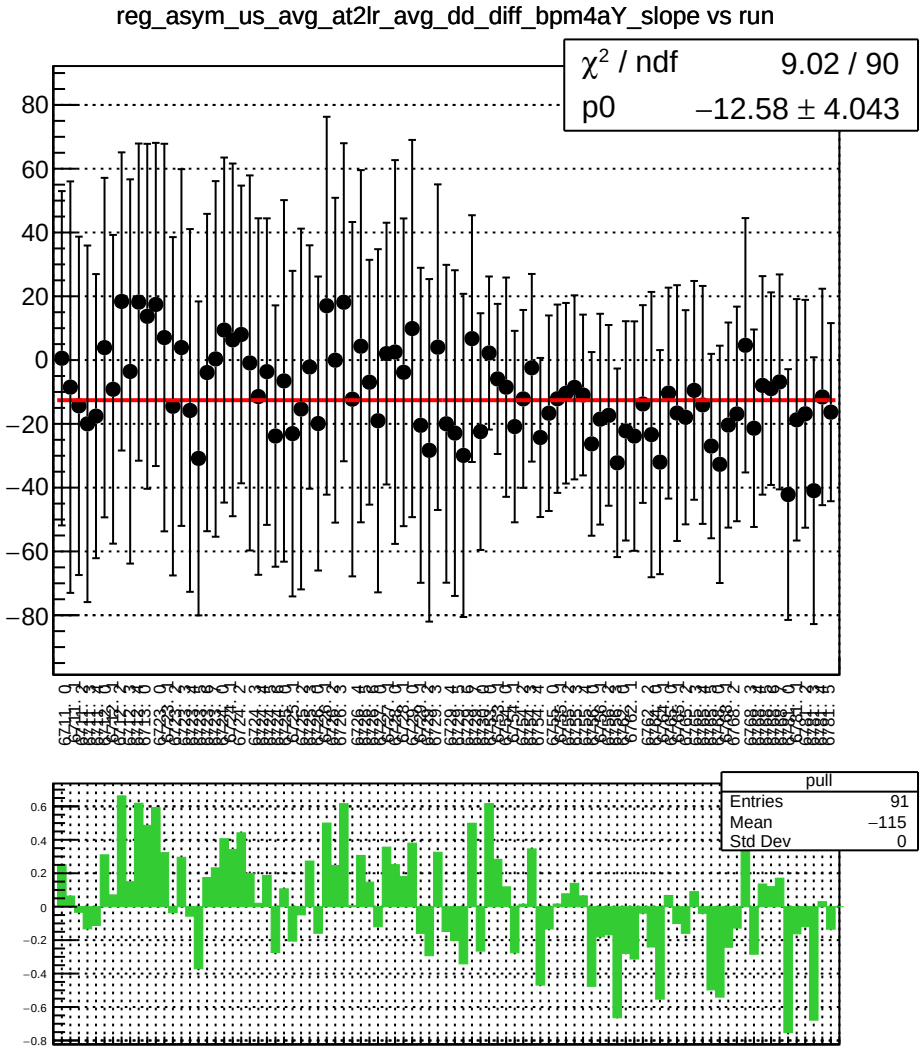

pull1D
Entries 91
Mean −0.003251
Std Dev 0.35

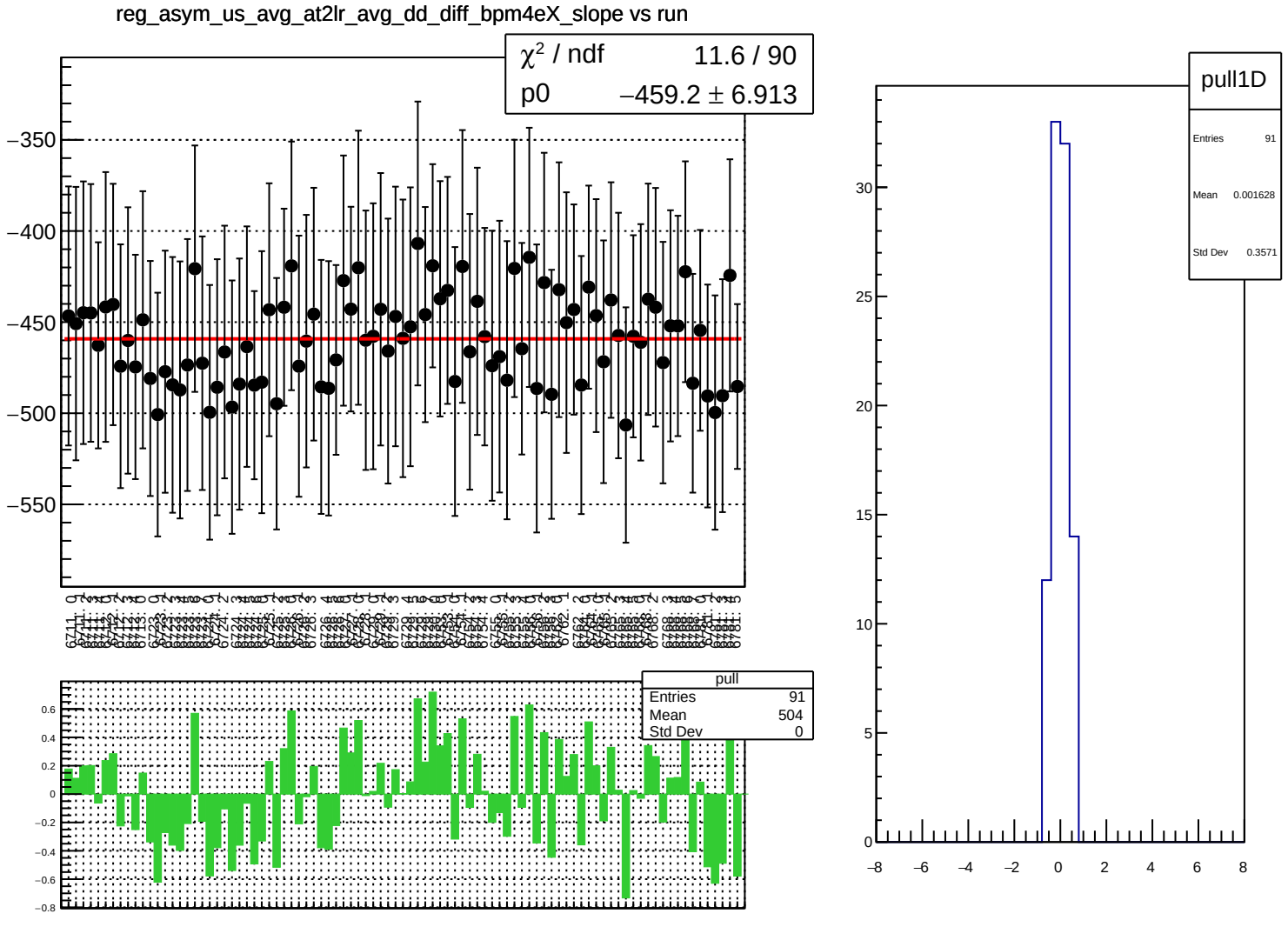

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.44 / 90
p0 128.6 ± 6.921
300
250
200
150
100
50
pull
Entries 91
Mean −105.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

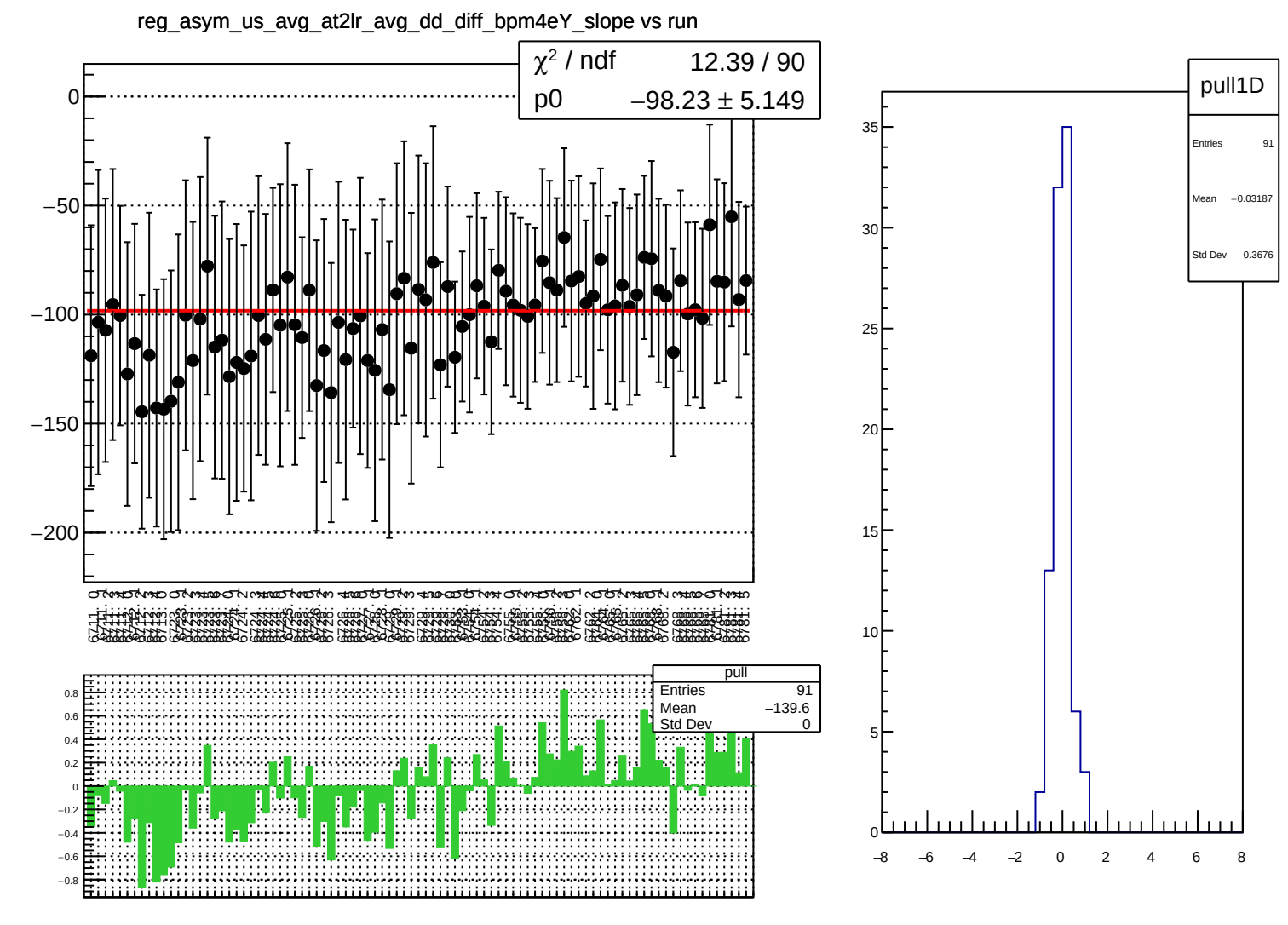

pull1D
Entries 91
Mean 0.03984
Std Dev 0.3676
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

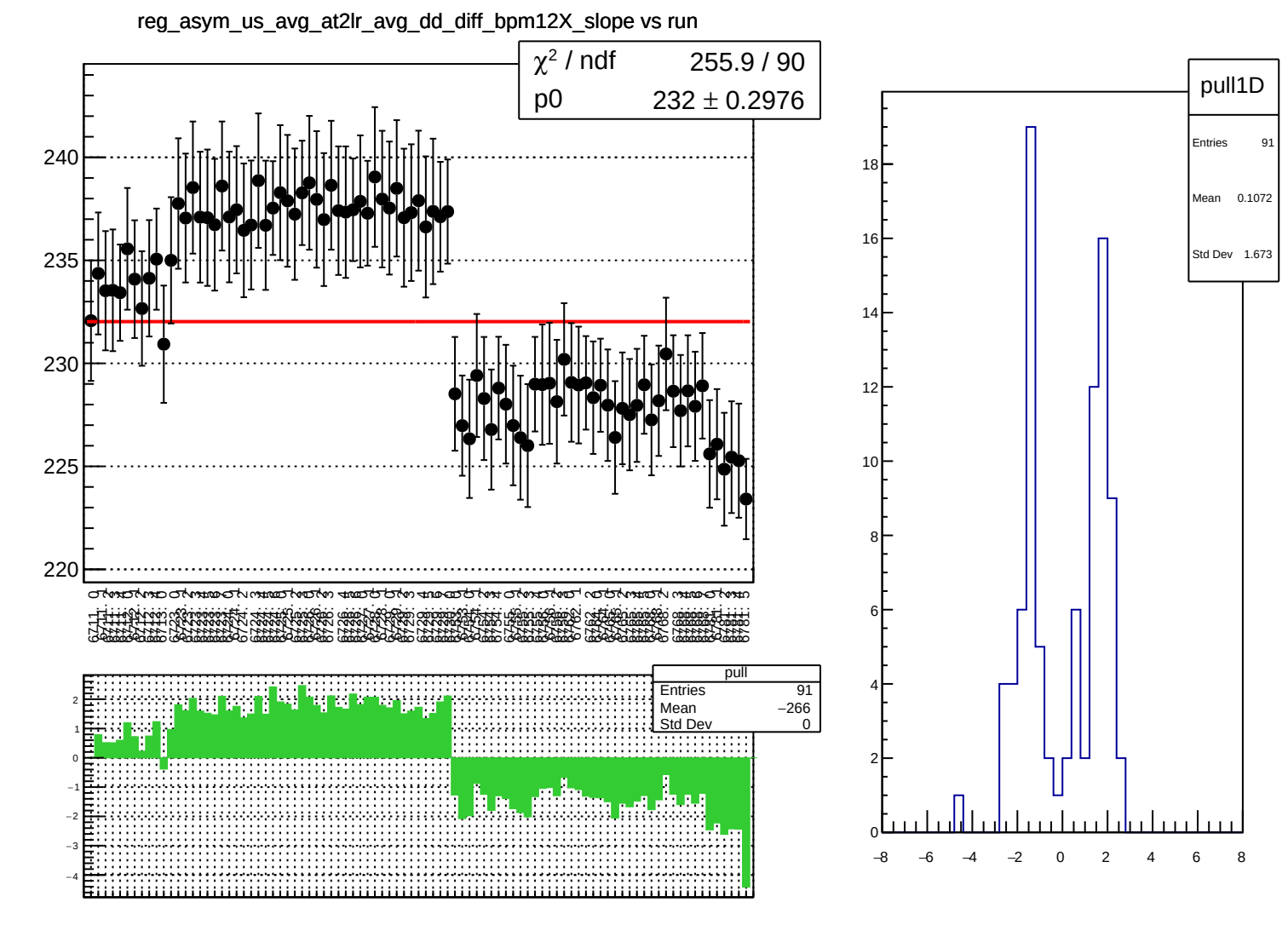

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 442.8 / 90
p0 −312.4 ± 0.4004
−295
−300
−305
−310
−315
−320
−325
−330
pull
Entries 91
Mean −238.4
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.1547
Std Dev 2.2
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

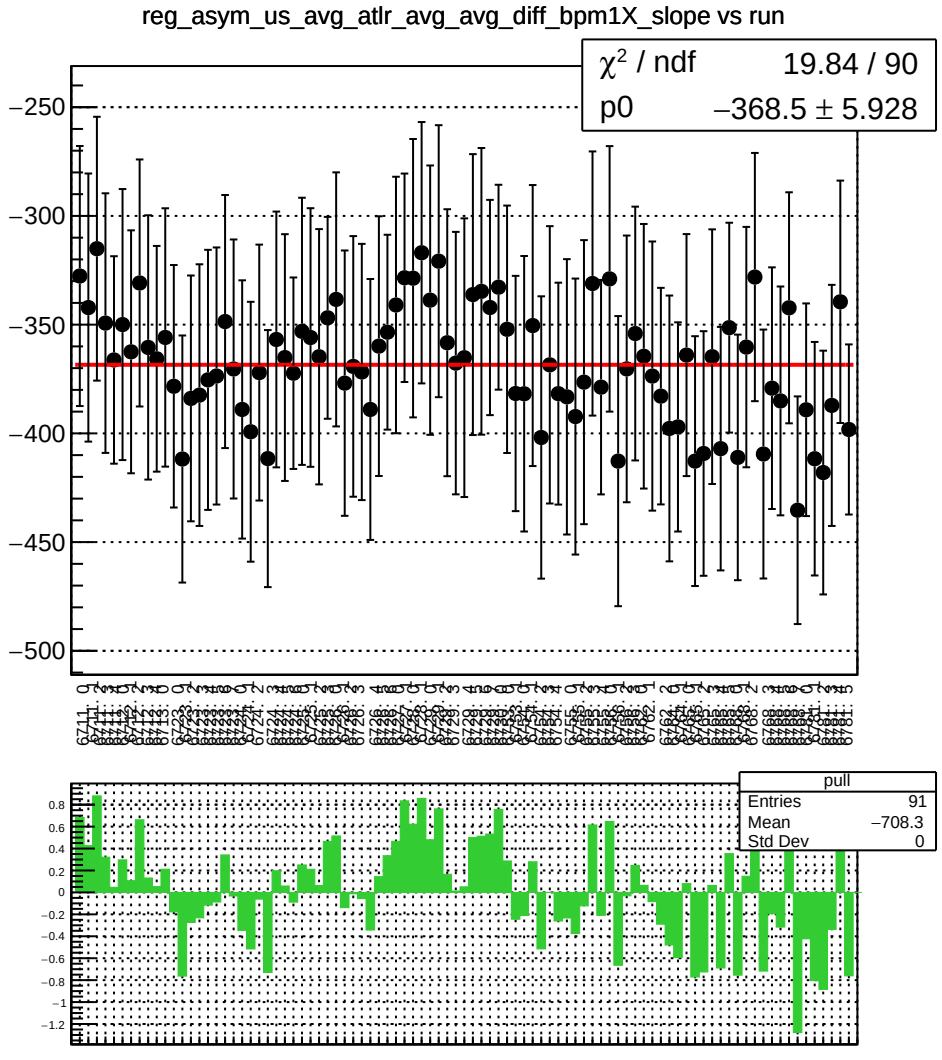

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 16.17 / 90
p0 453.6 ± 7.228
pull
Entries 91
Mean −4421
Std Dev 0
pull1D
Entries 91
Mean −0.001099
Std Dev 0.4215

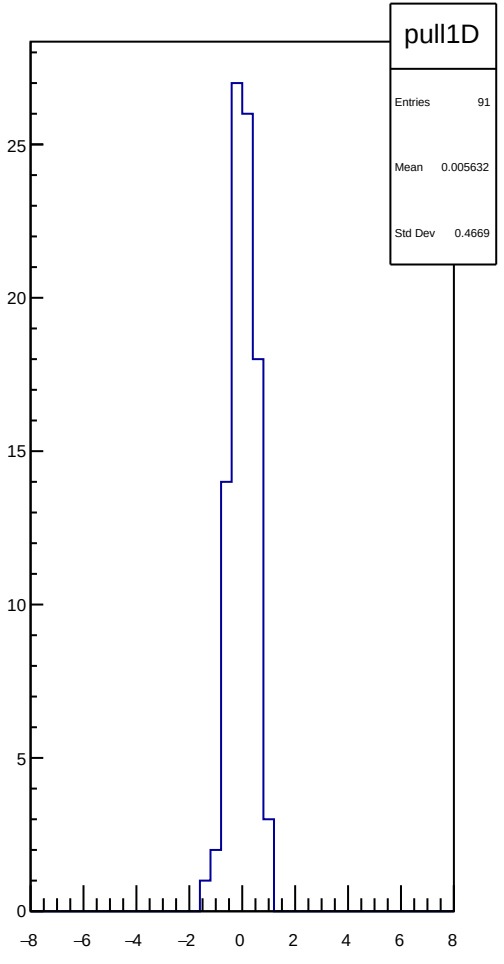

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.02 / 90
p0 −12.58 ± 4.043
pull
Entries 91
Mean −115
Std Dev 0
pull1D
Entries 91
Mean 0.02363
Std Dev 0.3139

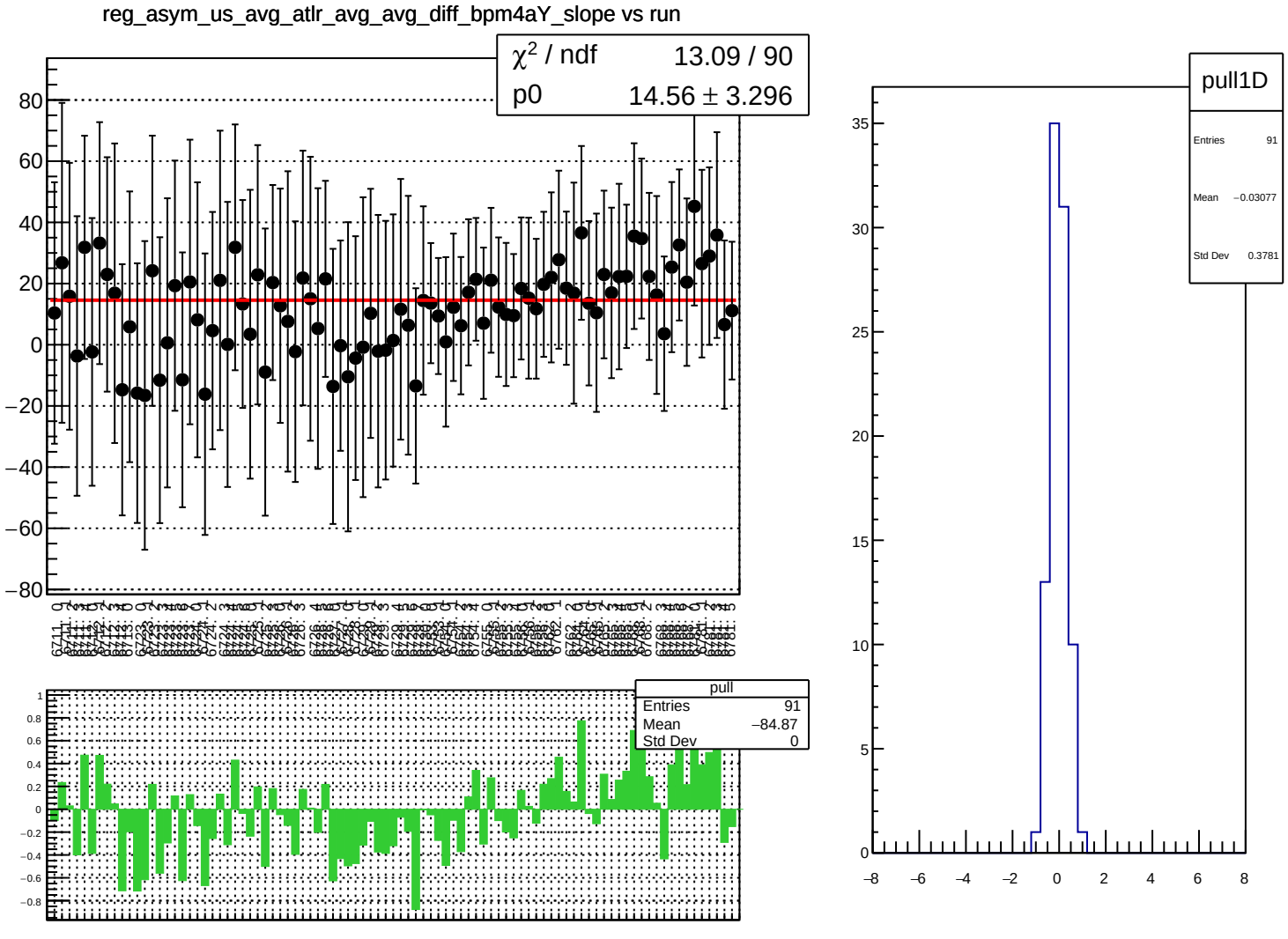

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.6 / 90
p0 −459.2 ± 6.913
−350
−400
−450
−500
−550
pull
Entries 91
Mean 504
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 91
Mean 0.001628
Std Dev 0.3571
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

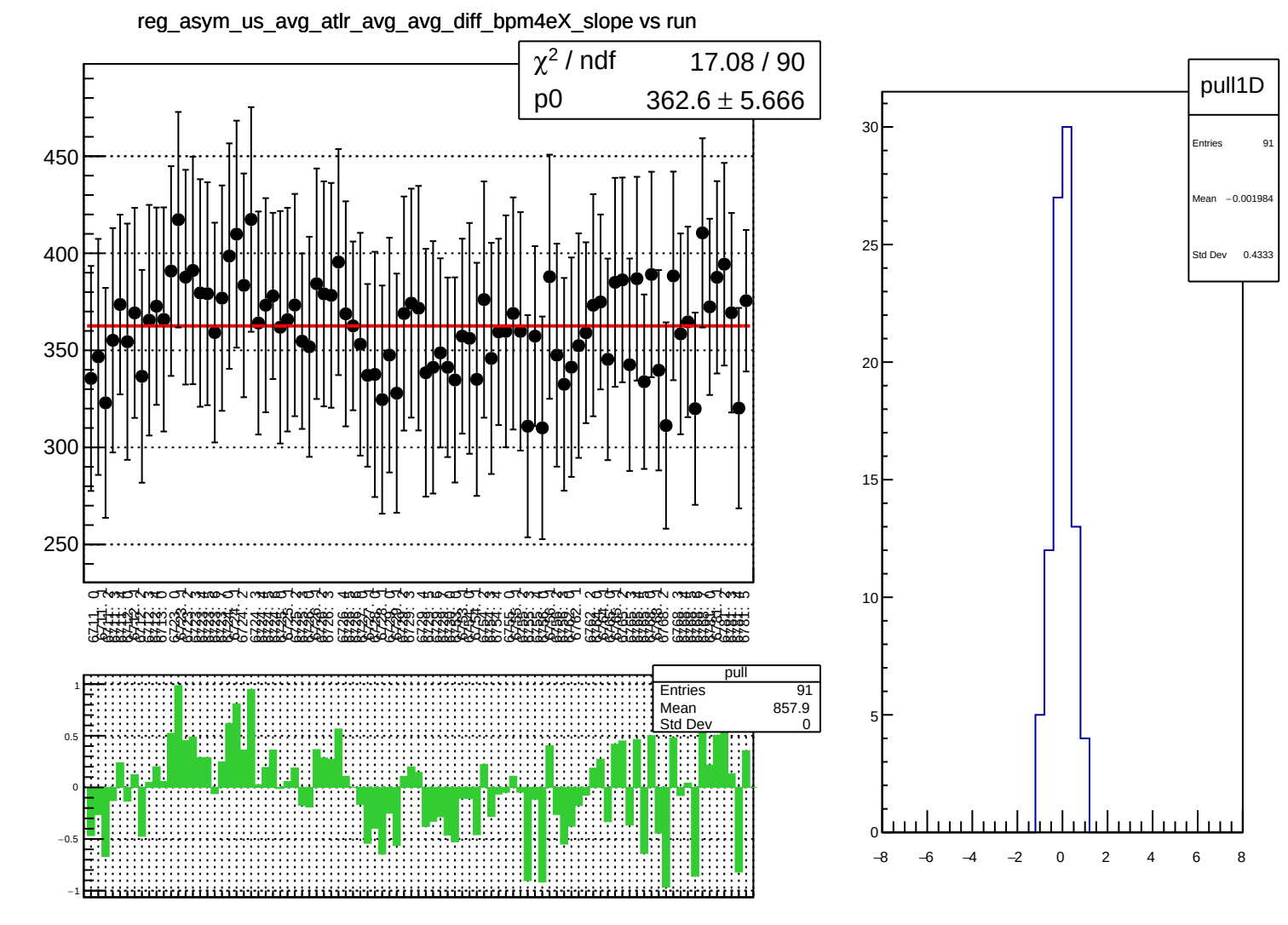

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.39 / 90
p0 −98.23 ± 5.149
0
−50
−100
−150
−200
pull
Entries 91
Mean −139.6
Std Dev 0
pull1D
Entries 91
Mean −0.03187
Std Dev 0.3676

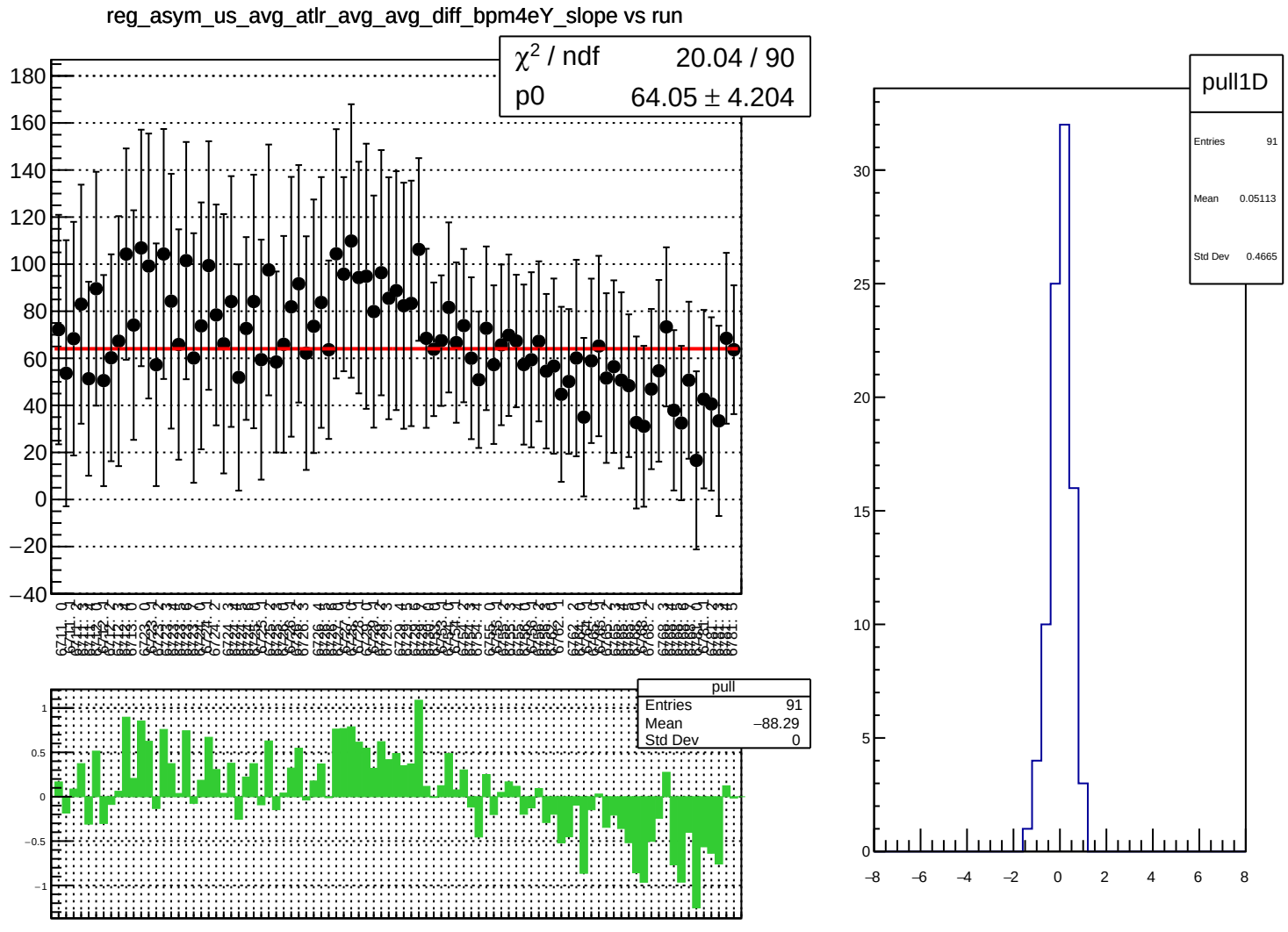

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 255.9 / 90
p0 232 ± 0.2976
240
235
230
225
220
pull
Entries 91
Mean −266
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 91
Mean 0.1072
Std Dev 1.673
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

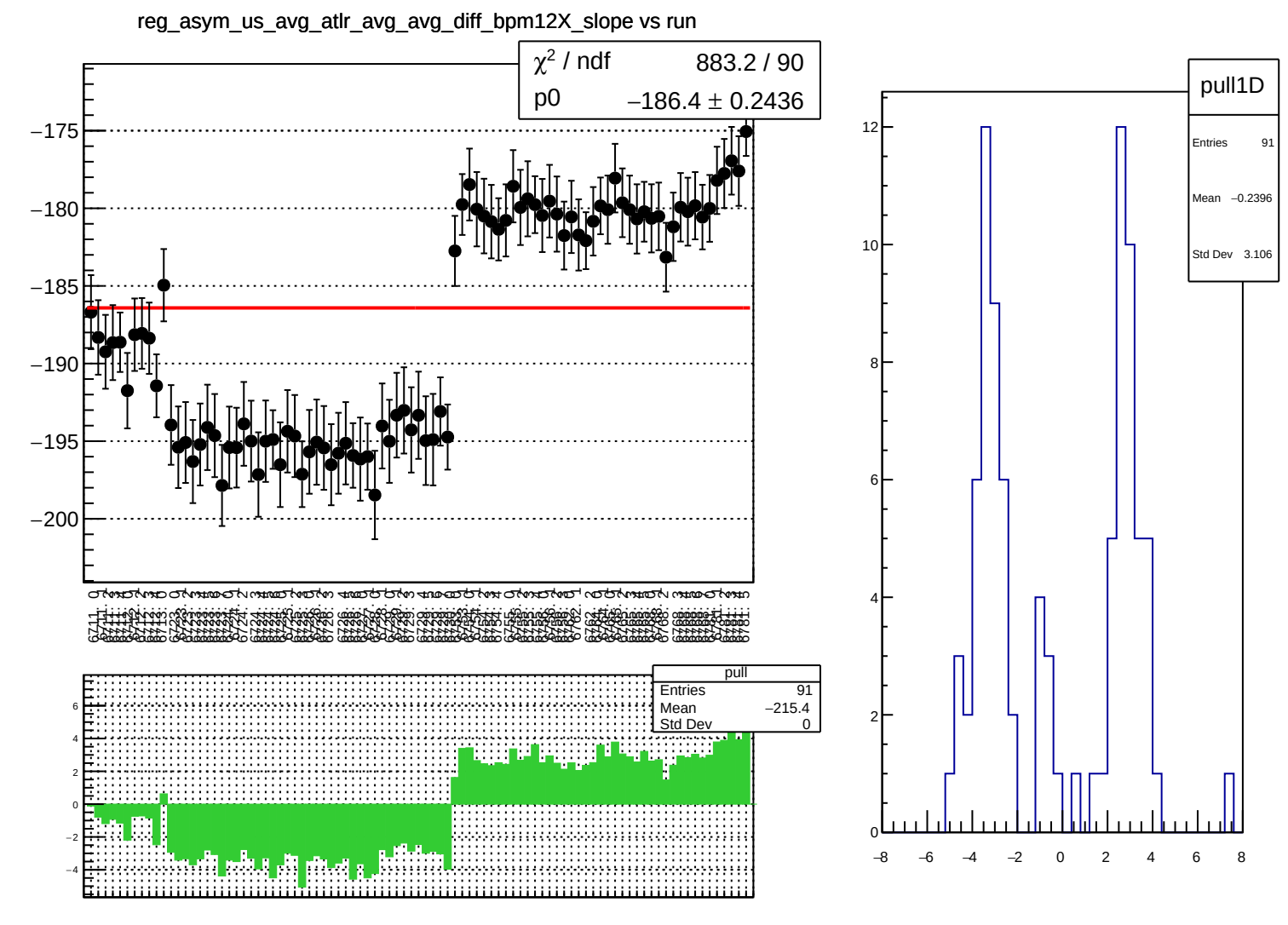

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 19.84 / 90
p0 −368.5 ± 5.928
−250
−300
−350
−400
−450
−500
pull
Entries 91
Mean −708.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

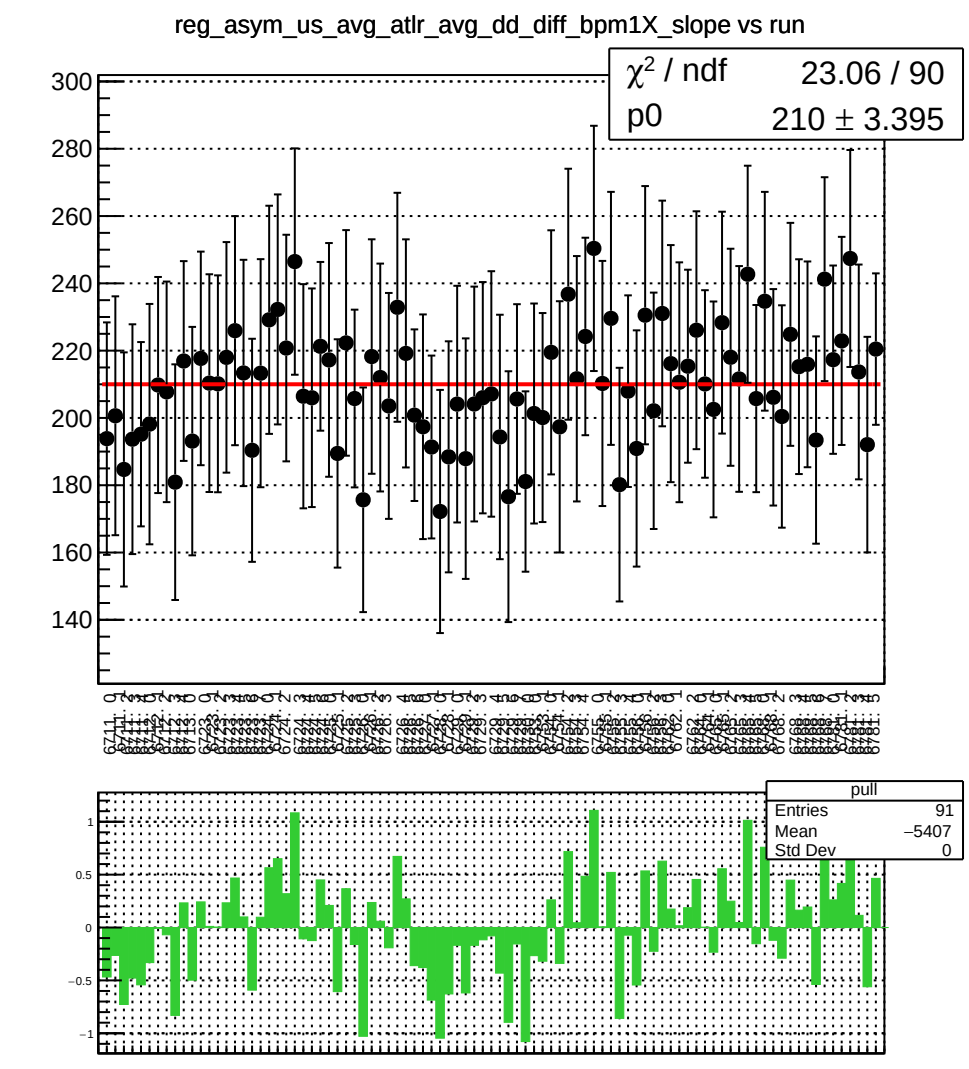

pull1D
Entries 91
Mean 0.005632
Std Dev 0.4669
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

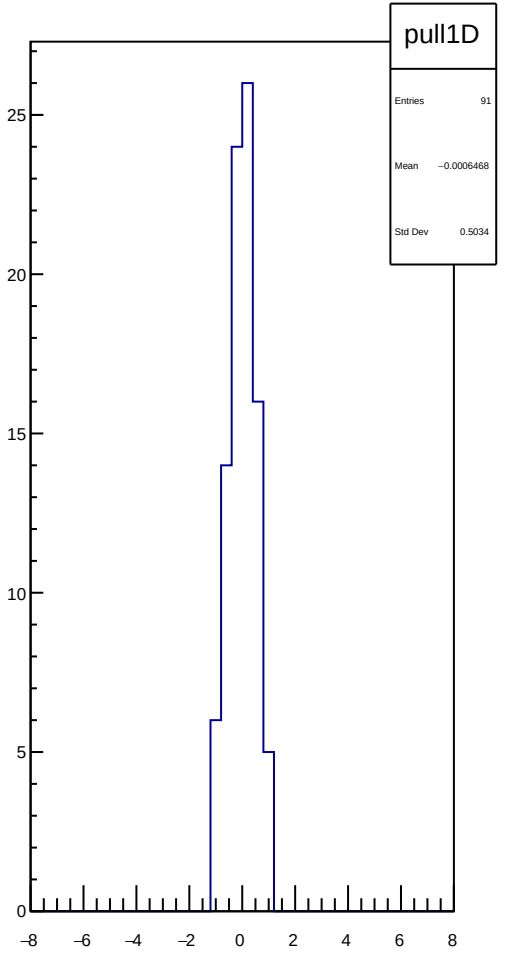

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.09 / 90
p0 14.56 ± 3.296
pull
Entries 91
Mean −84.87
Std Dev 0
pull1D
Entries 91
Mean −0.03077
Std Dev 0.3781

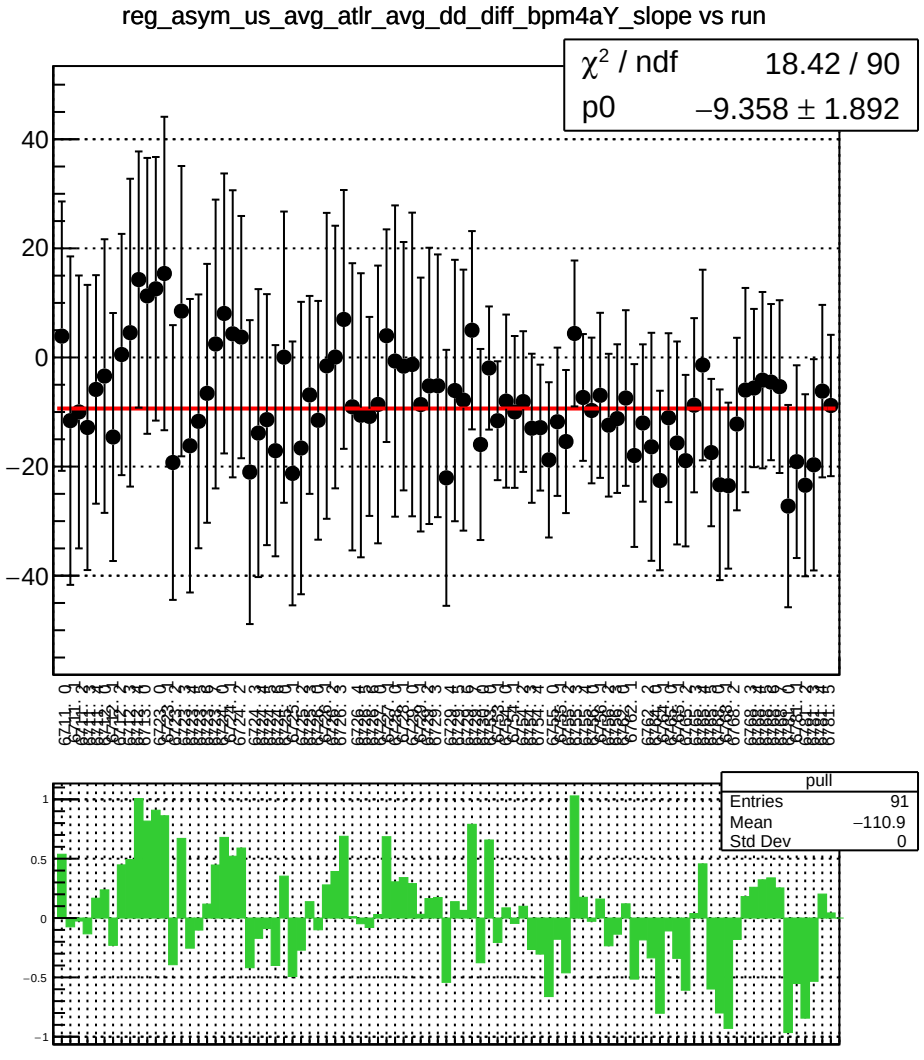

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.08 / 90
p0 362.6 ± 5.666
450
400
350
300
250
pull
Entries 91
Mean 857.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 91
Mean −0.001984
Std Dev 0.4333
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

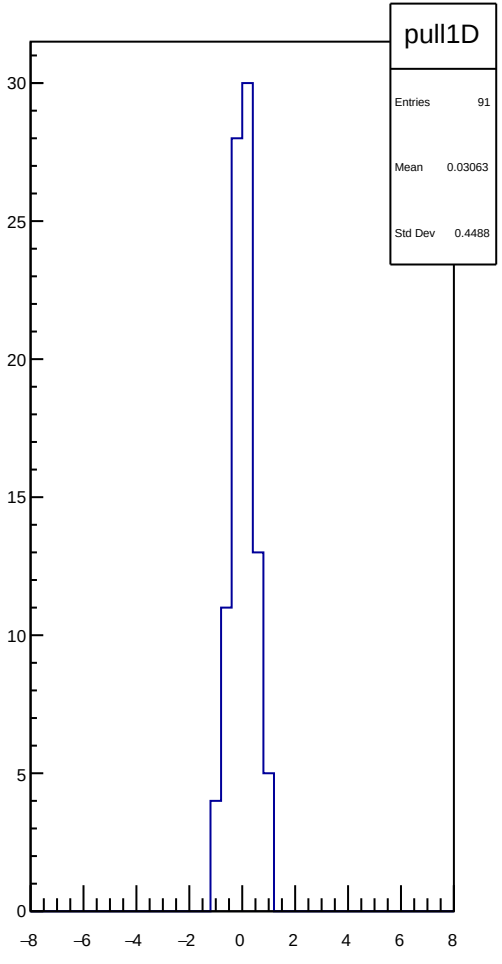

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.04 / 90
p0 64.05 ± 4.204
pull
Entries 91
Mean −88.29
Std Dev 0
pull1D
Entries 91
Mean 0.05113
Std Dev 0.4665

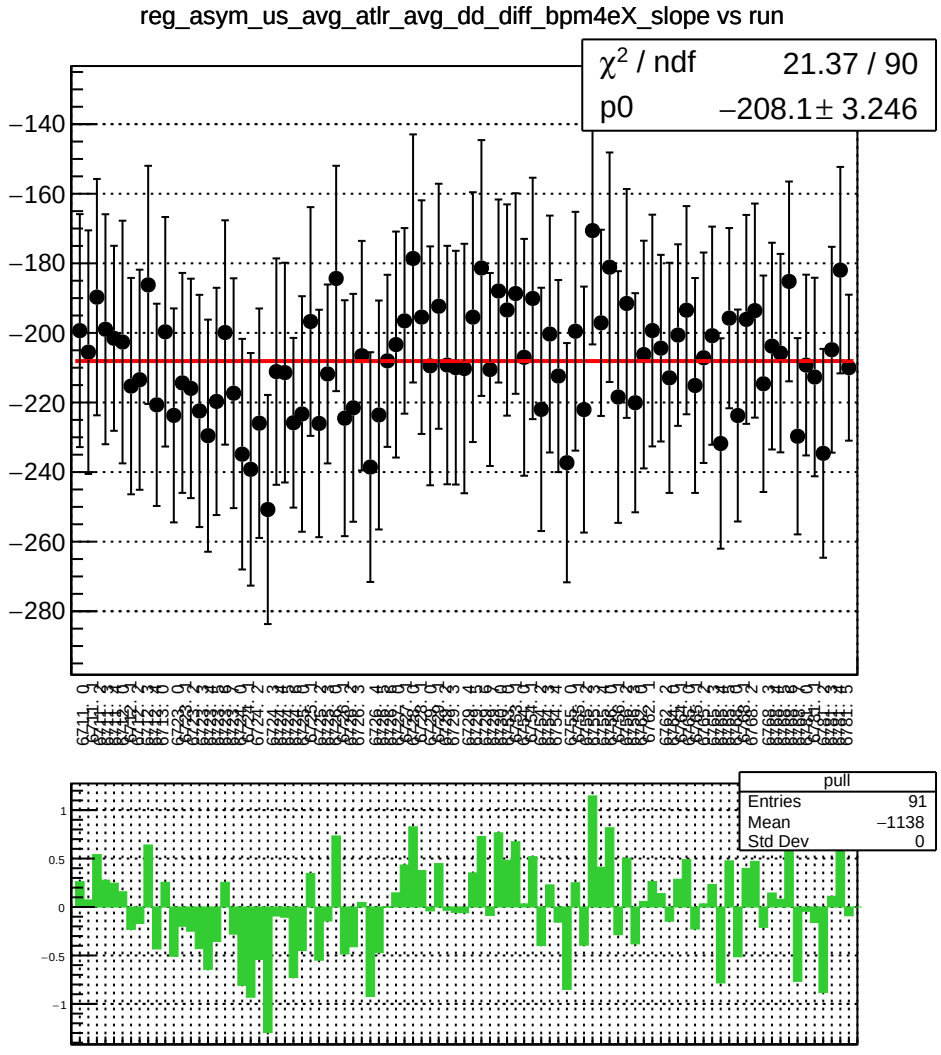

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 883.2 / 90
p0 −186.4 ± 0.2436
−175
−180
−185
−190
−195
−200
pull
Entries 91
Mean −215.4
Std Dev 0
pull1D
Entries 91
Mean −0.2396
Std Dev 3.106
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

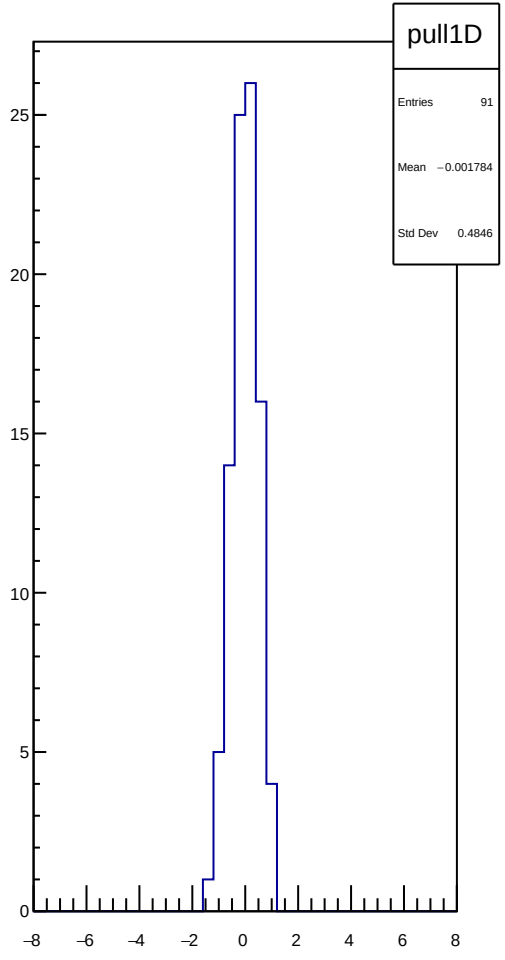

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 23.06 / 90
p0 210 ± 3.395
pull
Entries 91
Mean −5407
Std Dev 0

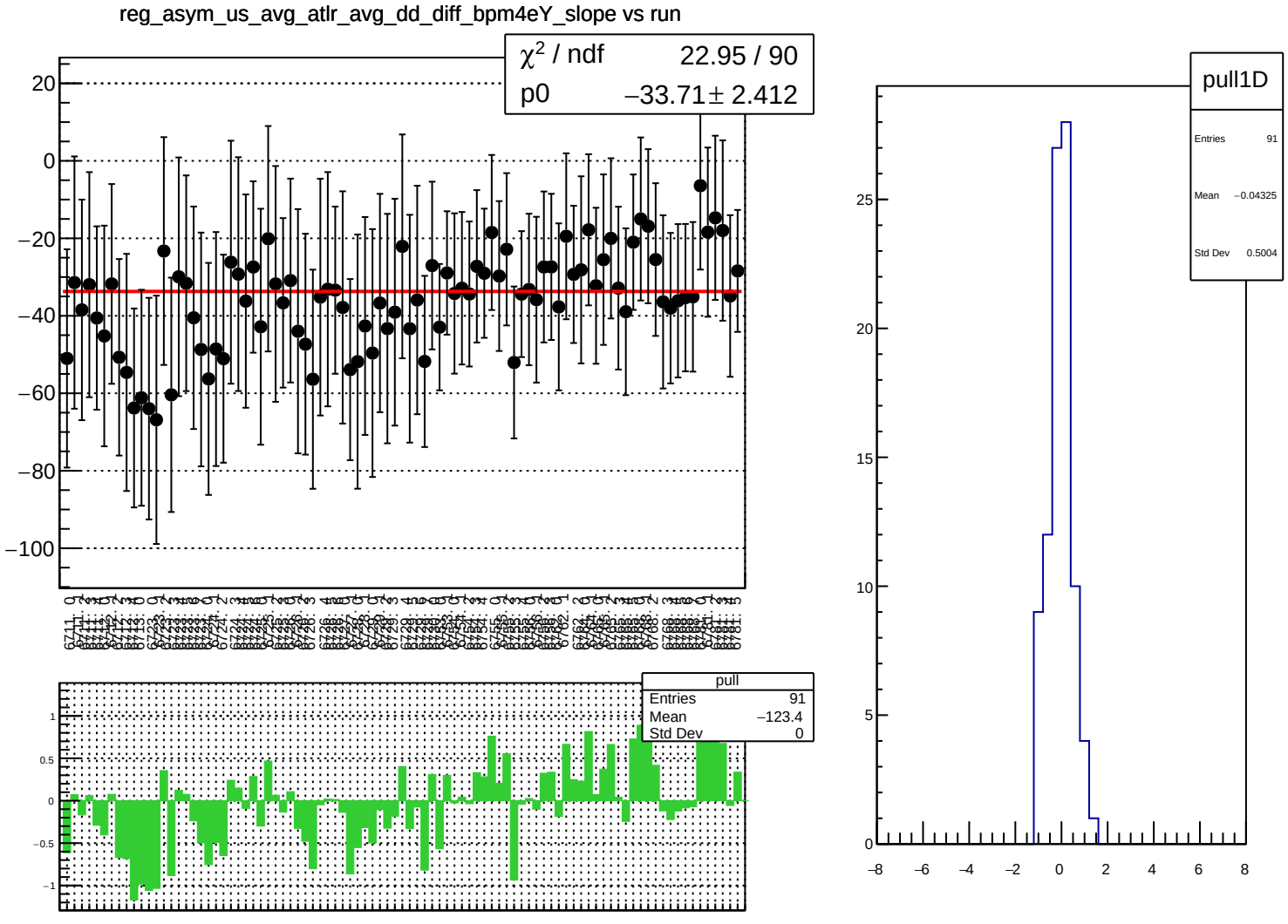

pull1D
Entries 91
Mean −0.0006468
Std Dev 0.5034

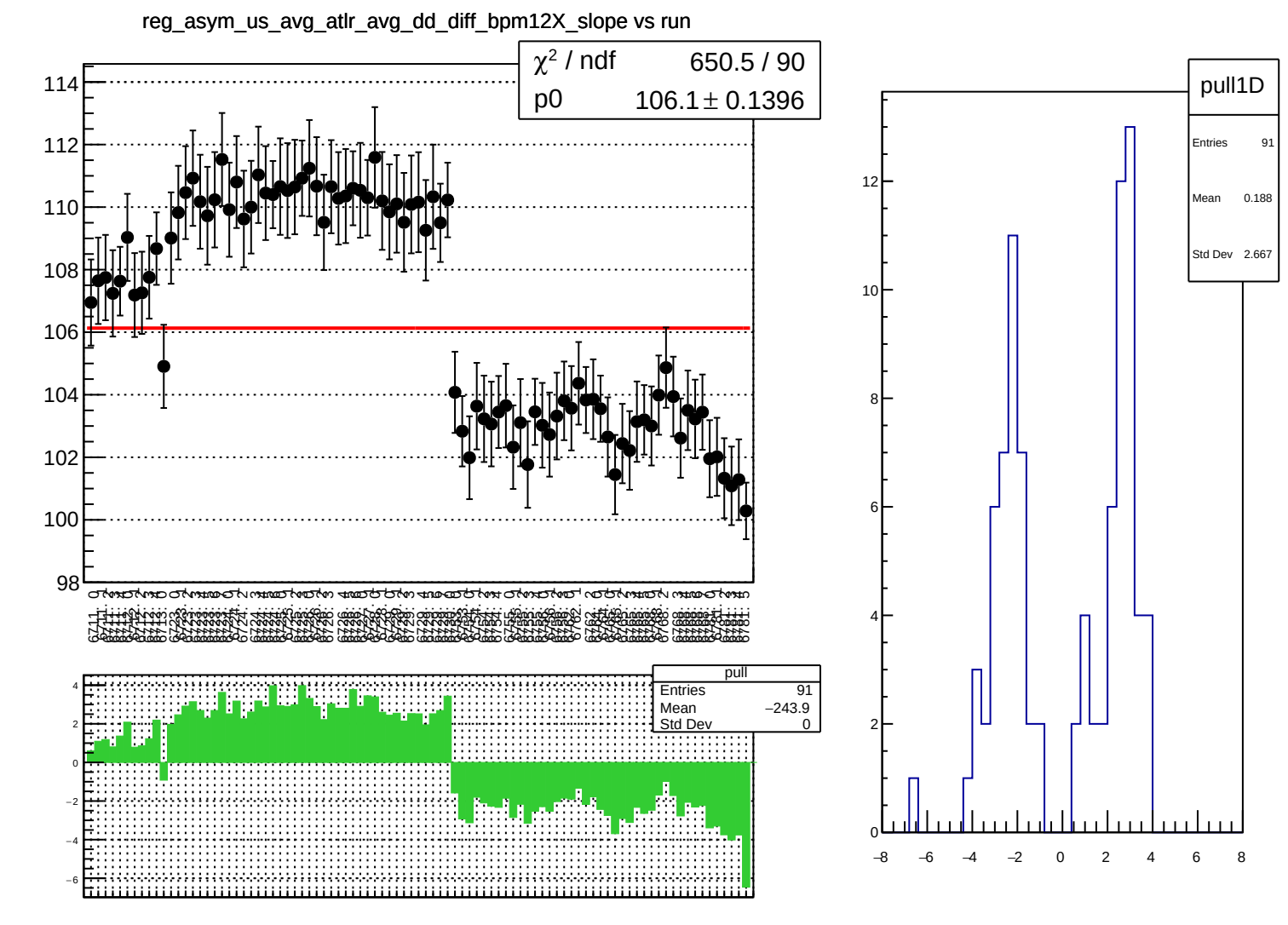

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.42 / 90
p0 −9.358 ± 1.892
pull
Entries 91
Mean −110.9
Std Dev 0

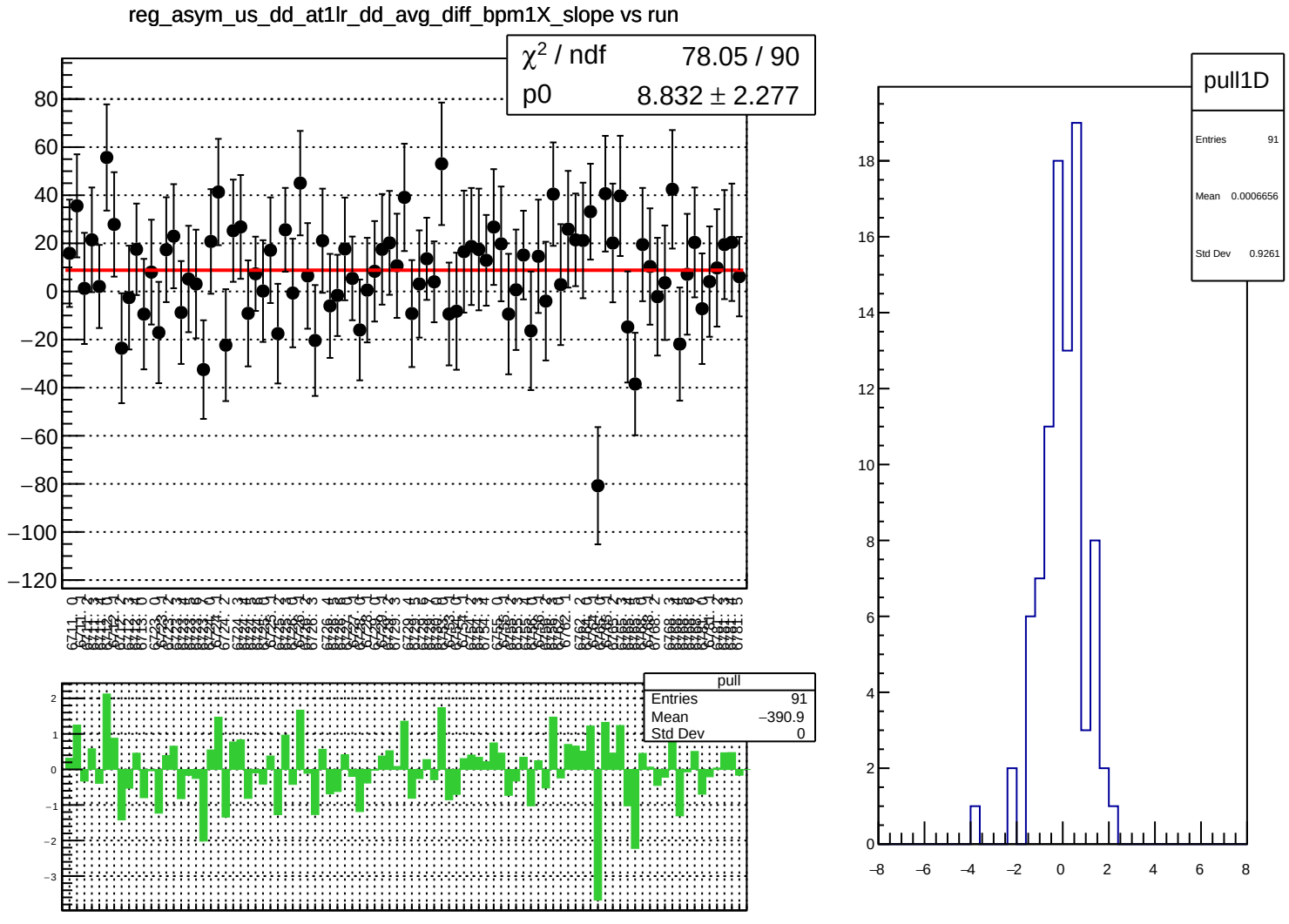

pull1D
Entries 91
Mean 0.03063
Std Dev 0.4488

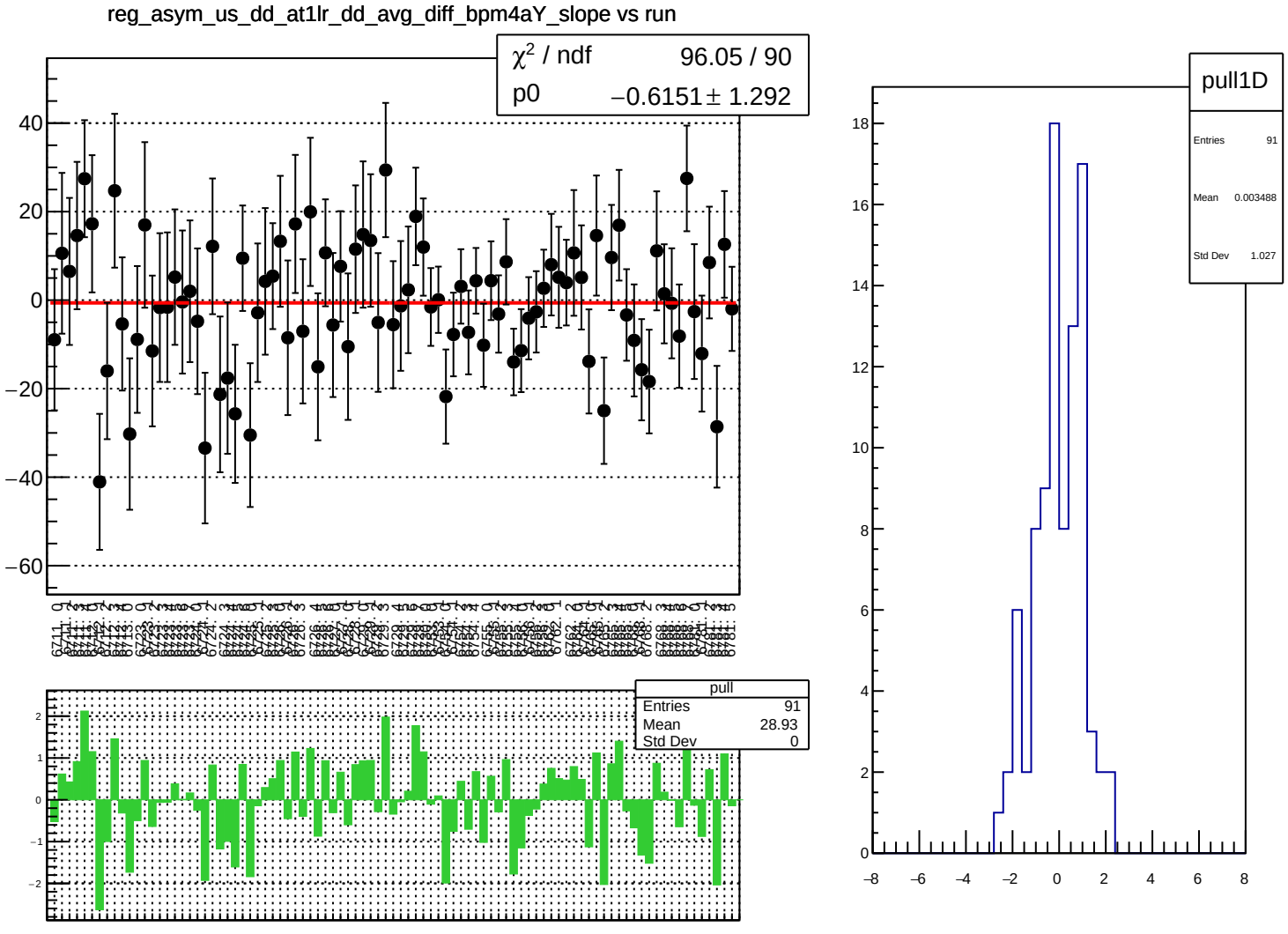

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.37 / 90
p0 −208.1± 3.246
−140
−160
−180
−200
−220
−240
−260
−280
pull
Entries 91
Mean −1138
Std Dev 0
1
0.5
0
−0.5
−1

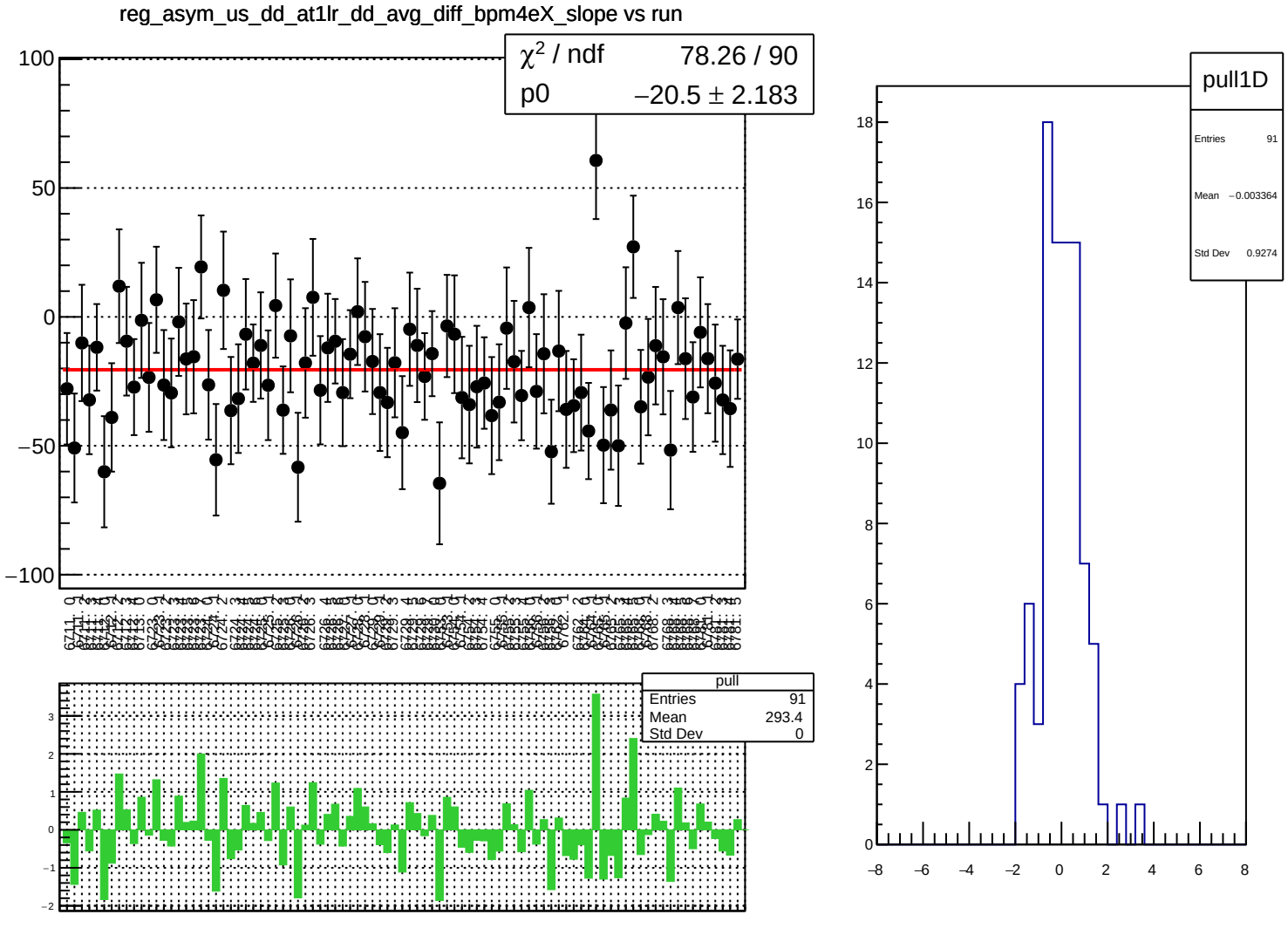

pull1D
Entries 91
Mean −0.001784
Std Dev 0.4846
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

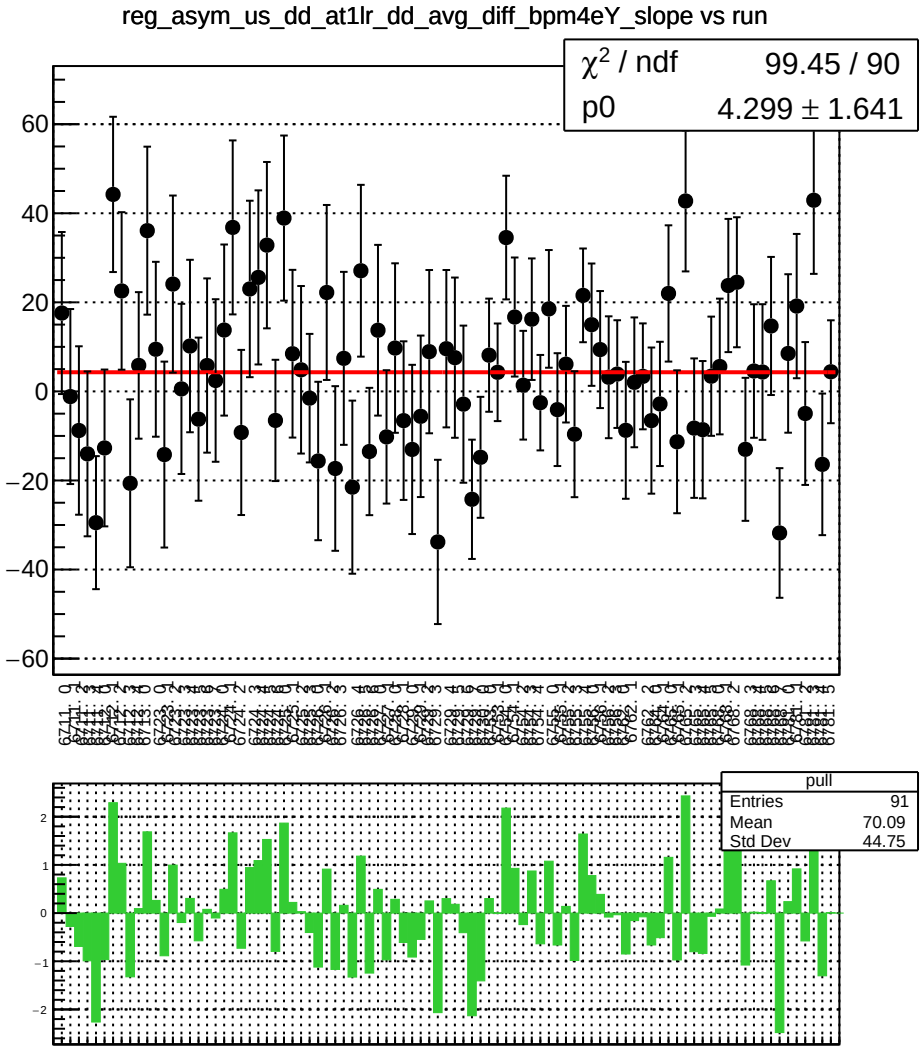

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.95 / 90
p0 −33.71 ± 2.412
pull
Entries 91
Mean −123.4
Std Dev 0
pull1D
Entries 91
Mean −0.04325
Std Dev 0.5004

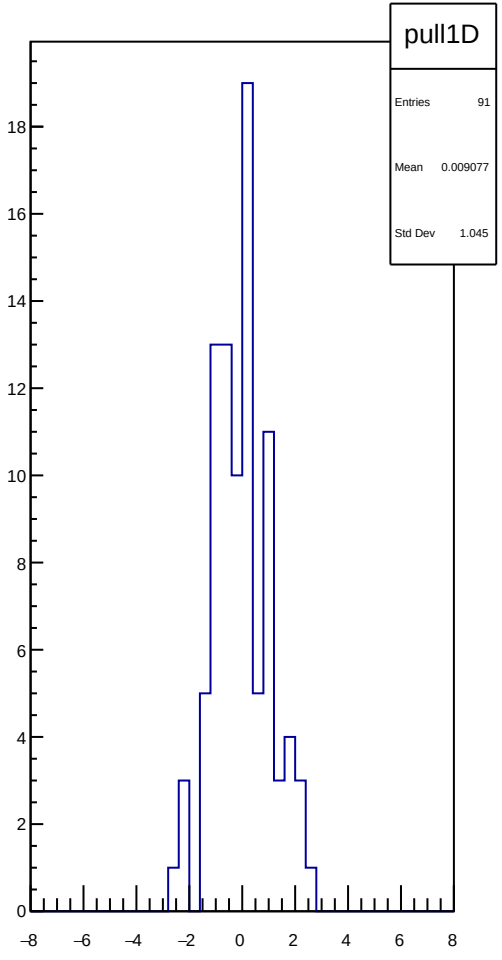

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 650.5 / 90
p0 106.1 ± 0.1396
pull
Entries 91
Mean −243.9
Std Dev 0
pull1D
Entries 91
Mean 0.188
Std Dev 2.667

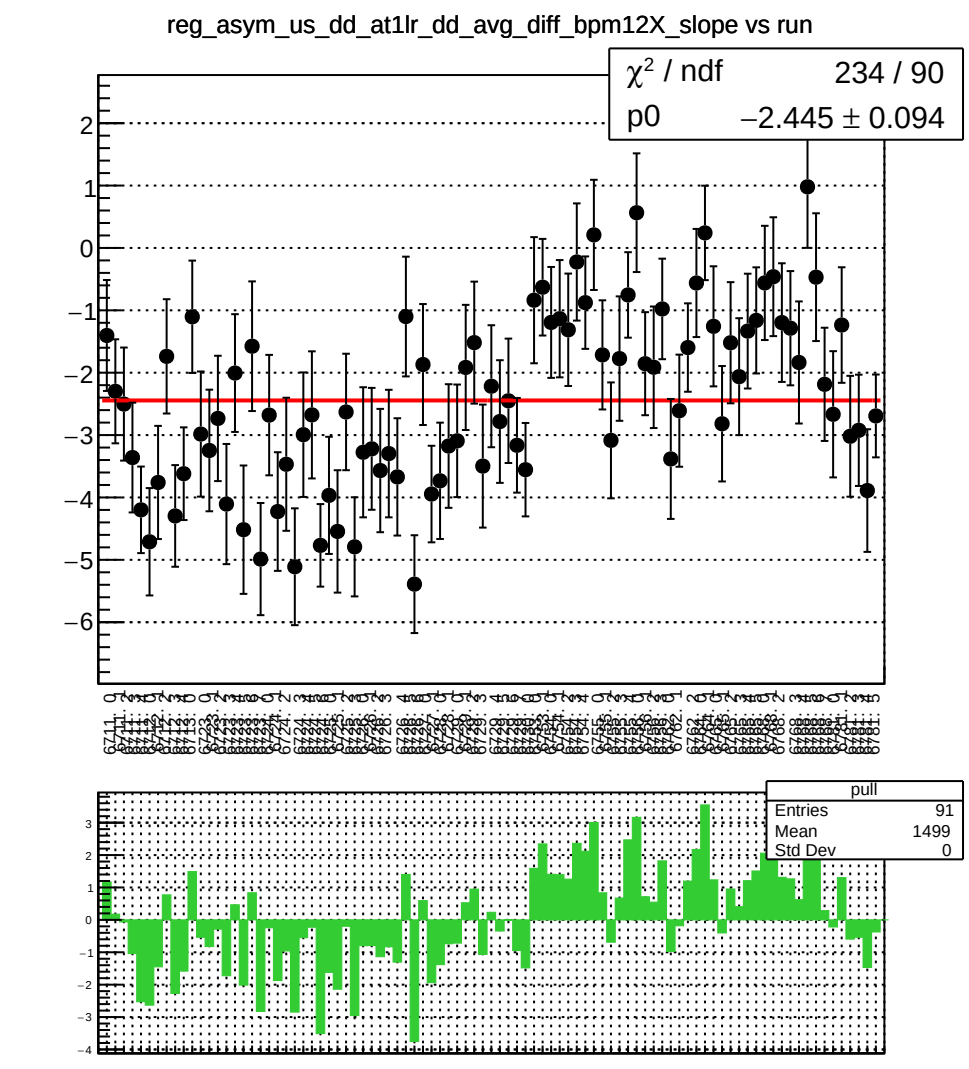

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 78.05 / 90
p0 8.832 ± 2.277
pull
Entries 91
Mean −390.9
Std Dev 0
pull1D
Entries 91
Mean 0.0006656
Std Dev 0.9261

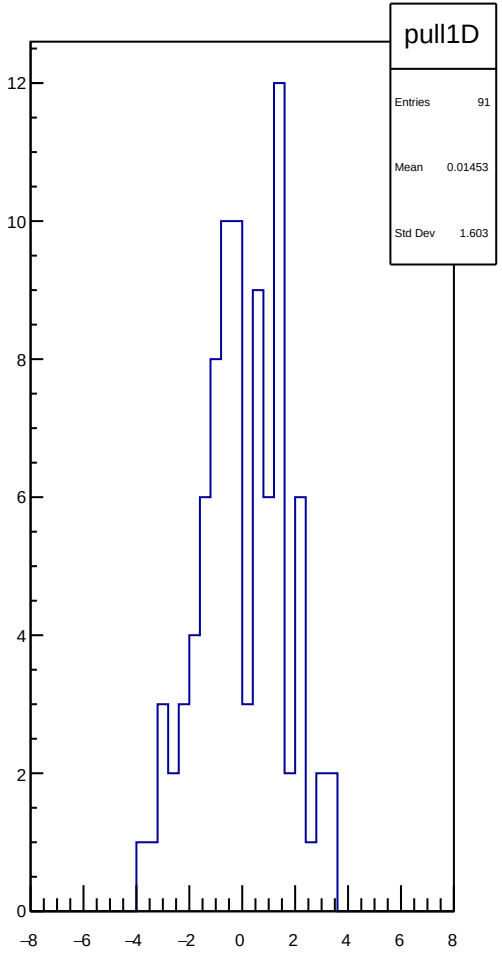

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 96.05 / 90
p0 −0.6151 ± 1.292
pull
Entries 91
Mean 28.93
Std Dev 0
pull1D
Entries 91
Mean 0.003488
Std Dev 1.027

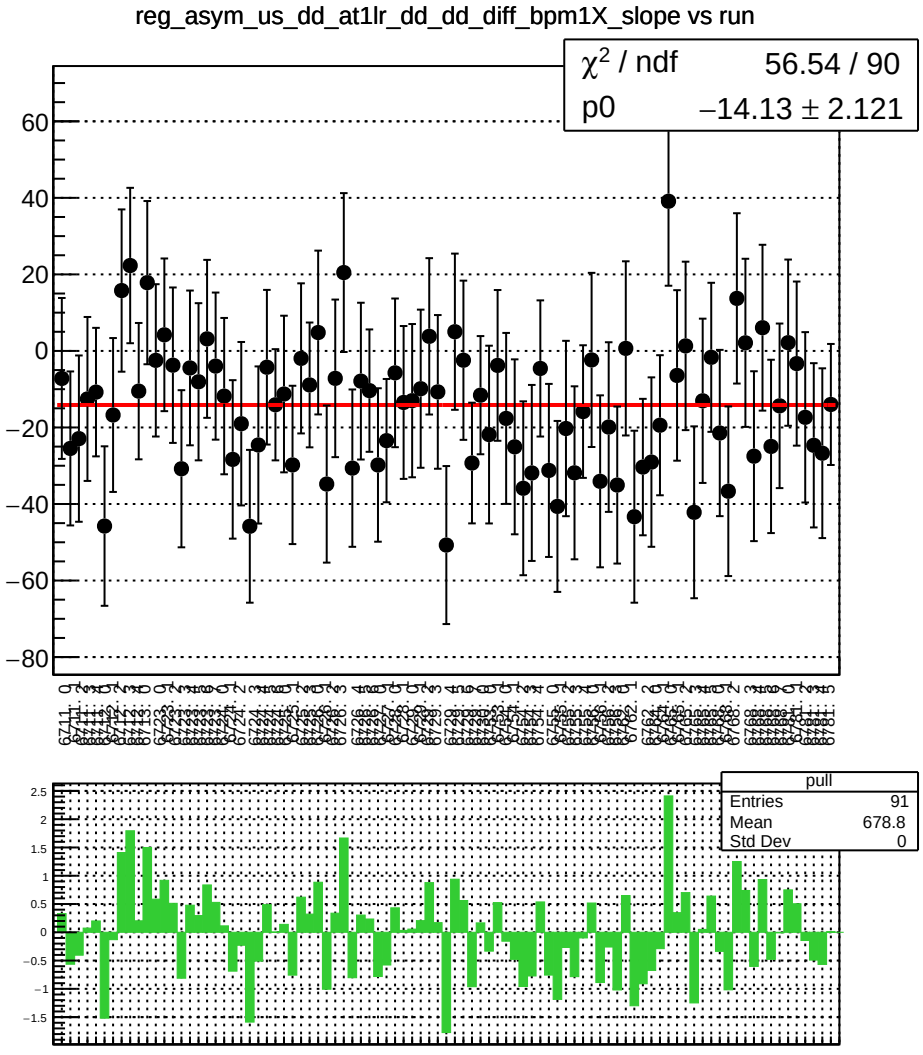

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 78.26 / 90
p0 −20.5 ± 2.183
pull
Entries 91
Mean 293.4
Std Dev 0
pull1D
Entries 91
Mean −0.003364
Std Dev 0.9274

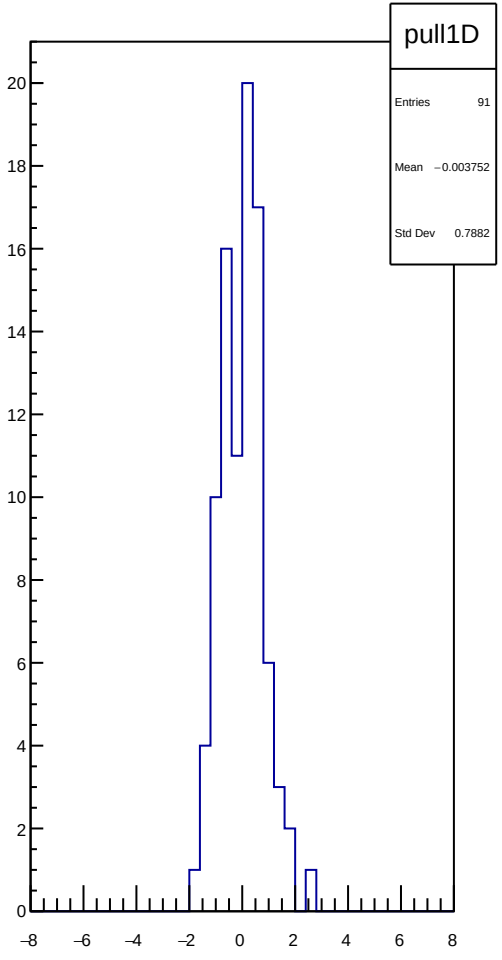

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 99.45 / 90
p0 4.299 ± 1.641
pull
Entries 91
Mean 70.09
Std Dev 44.75

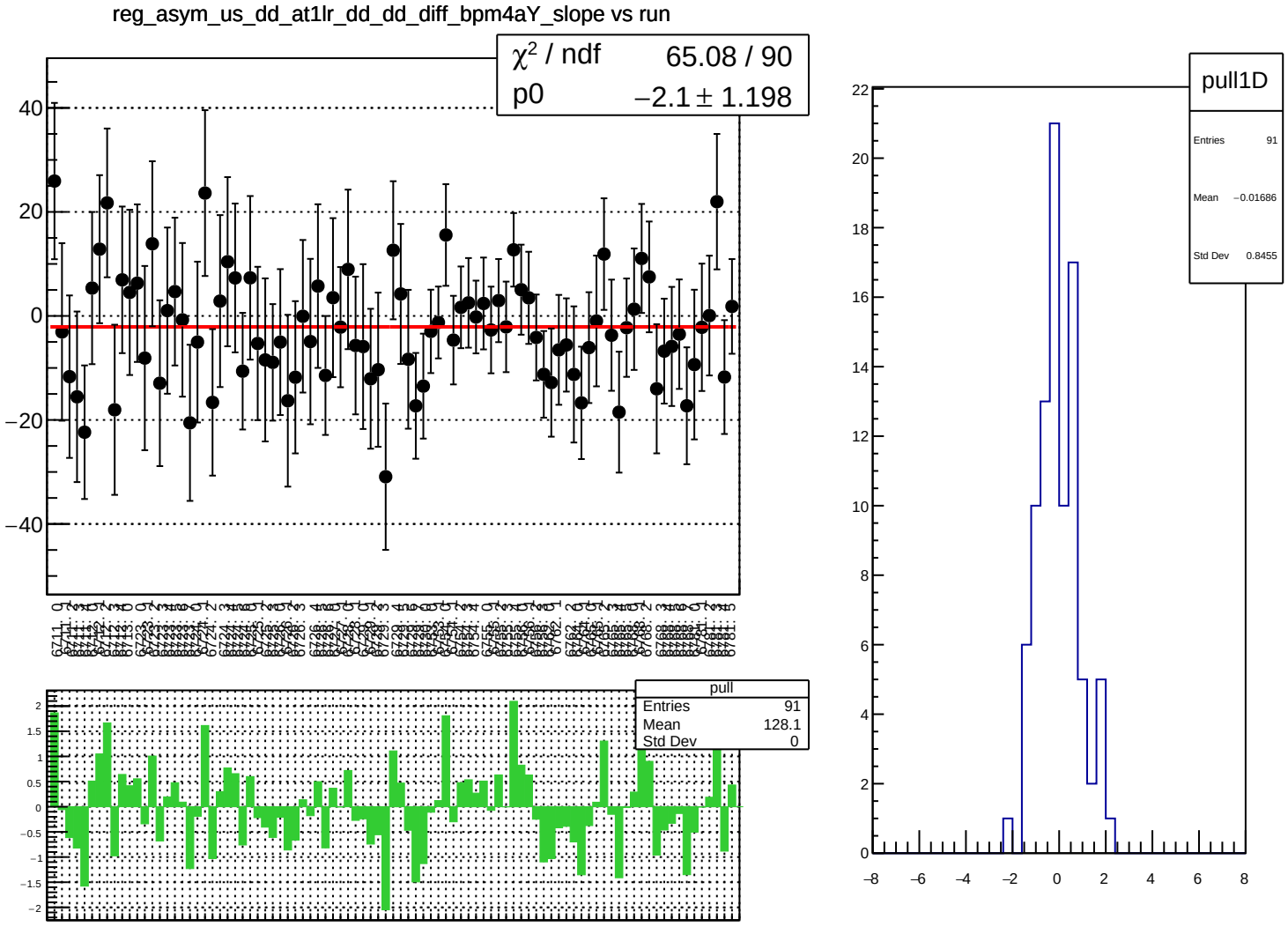

pull1D
Entries 91
Mean 0.009077
Std Dev 1.045

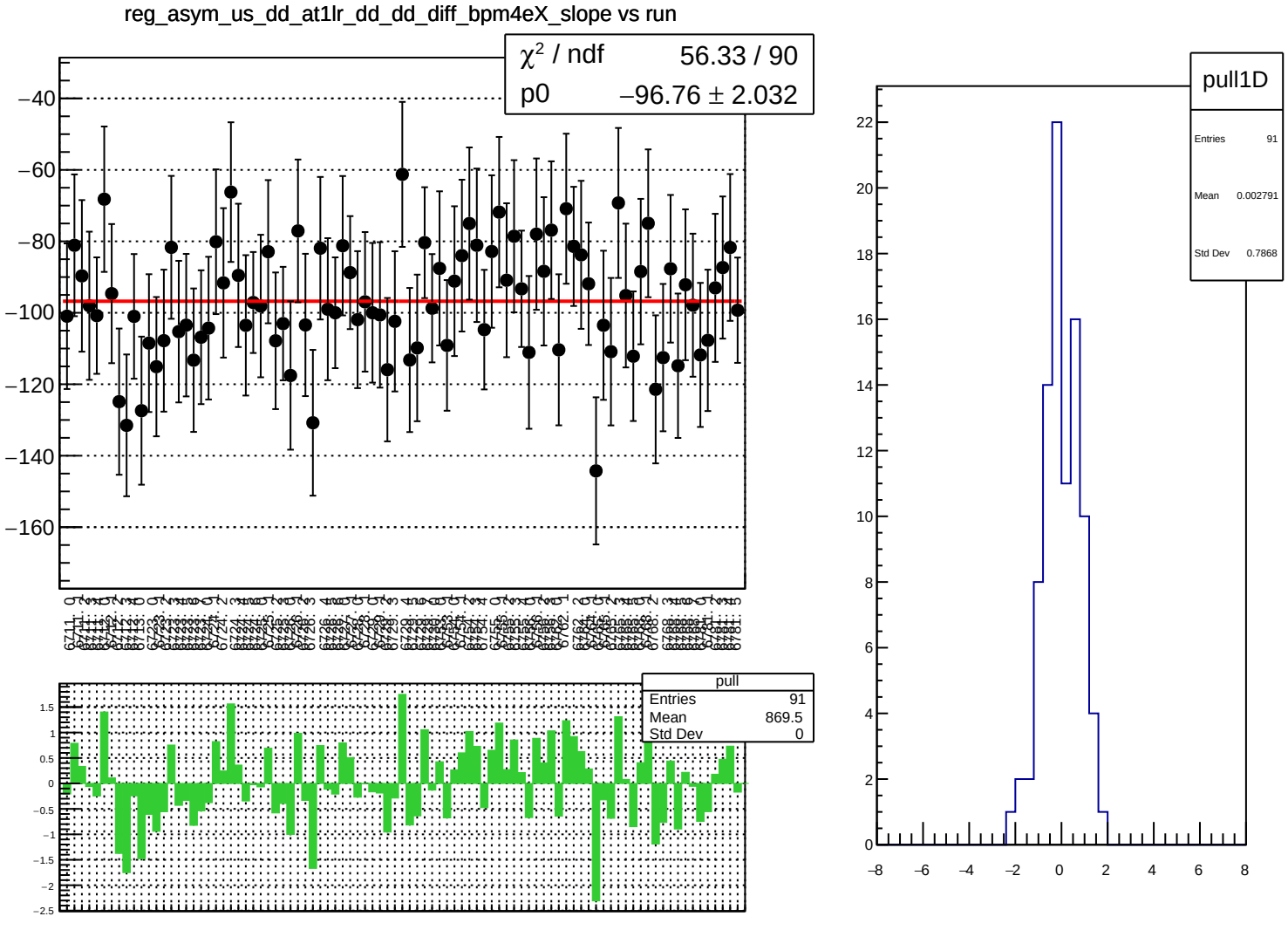

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 234 / 90
p0 −2.445 ± 0.094
pull
Entries 91
Mean 1499
Std Dev 0

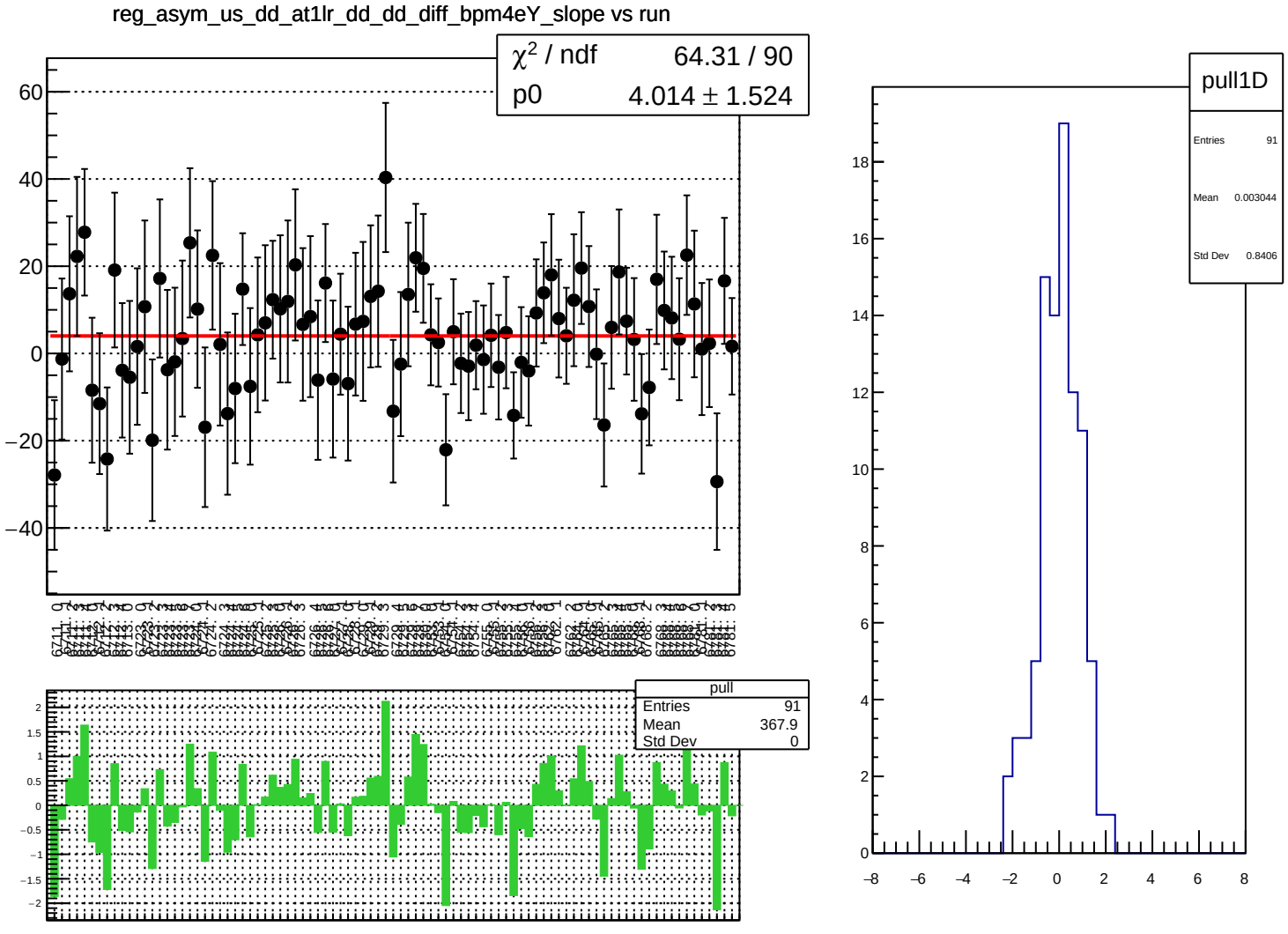

pull1D
Entries 91
Mean 0.01453
Std Dev 1.603

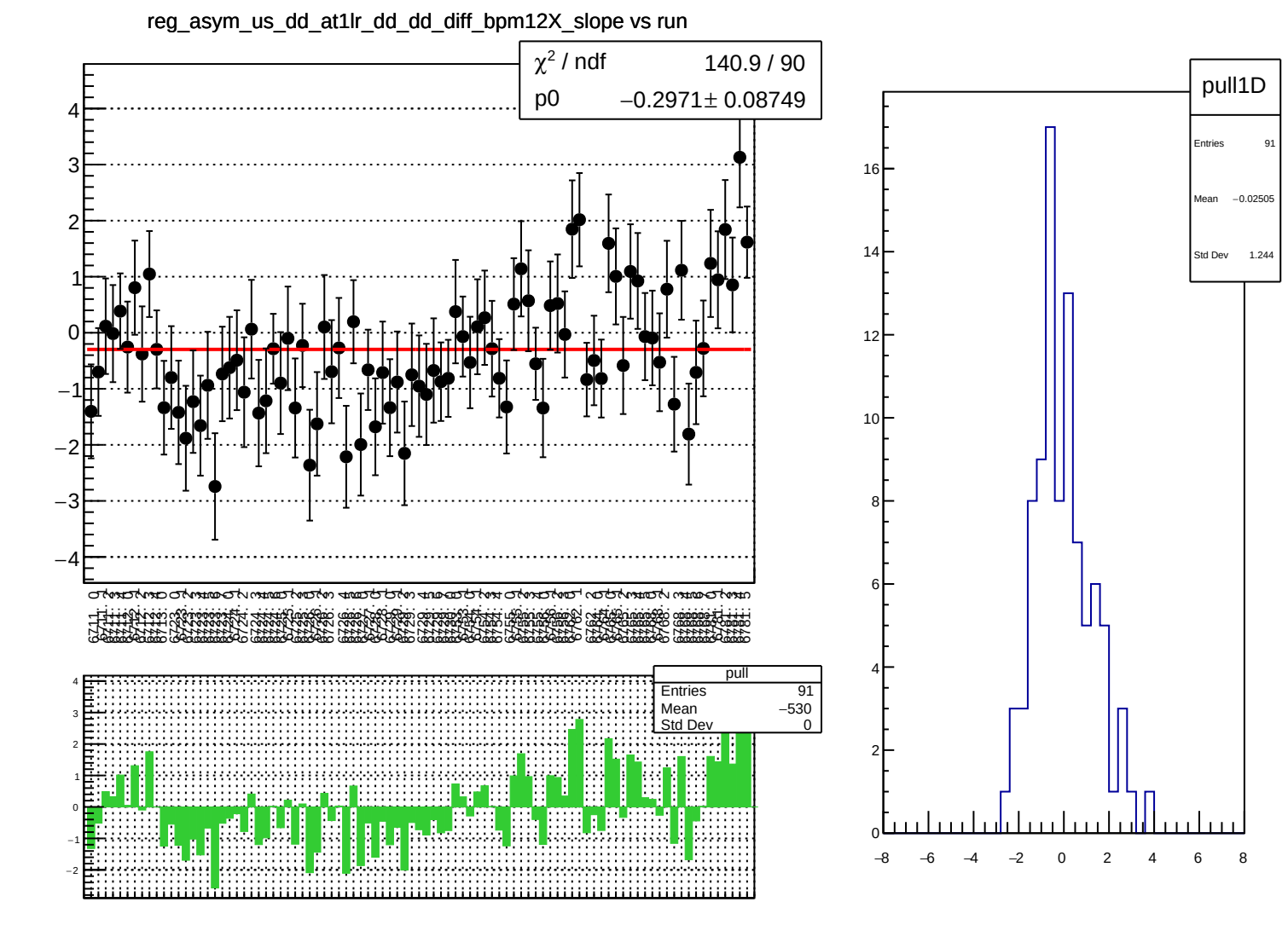

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 56.54 / 90
p0 −14.13 ± 2.121
pull
Entries 91
Mean 678.8
Std Dev 0

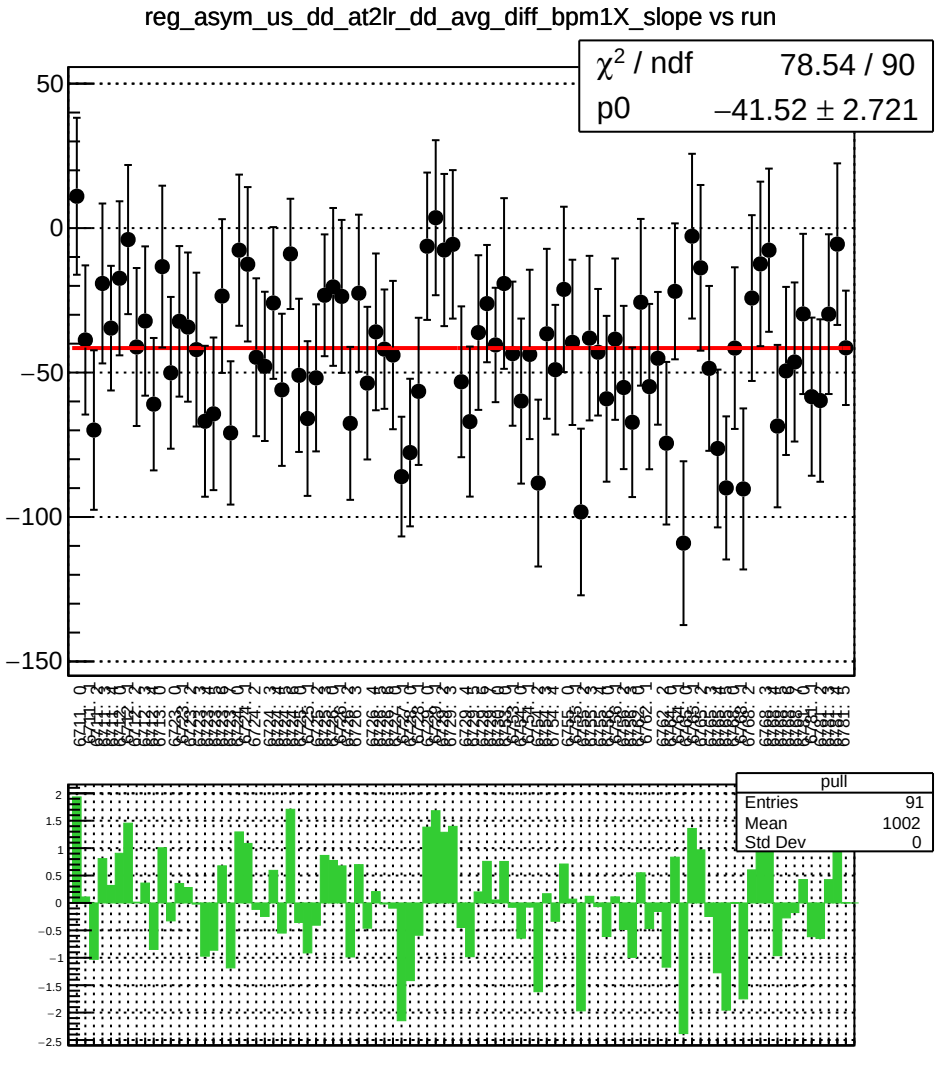

pull1D
Entries 91
Mean −0.003752
Std Dev 0.7882

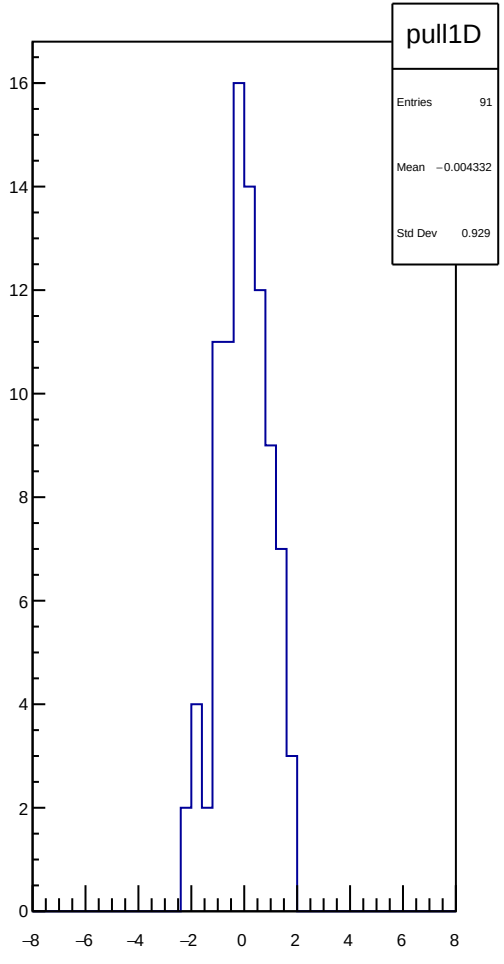

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.08 / 90
p0 −2.1 ± 1.198
pull
Entries 91
Mean 128.1
Std Dev 0
pull1D
Entries 91
Mean −0.01686
Std Dev 0.8455

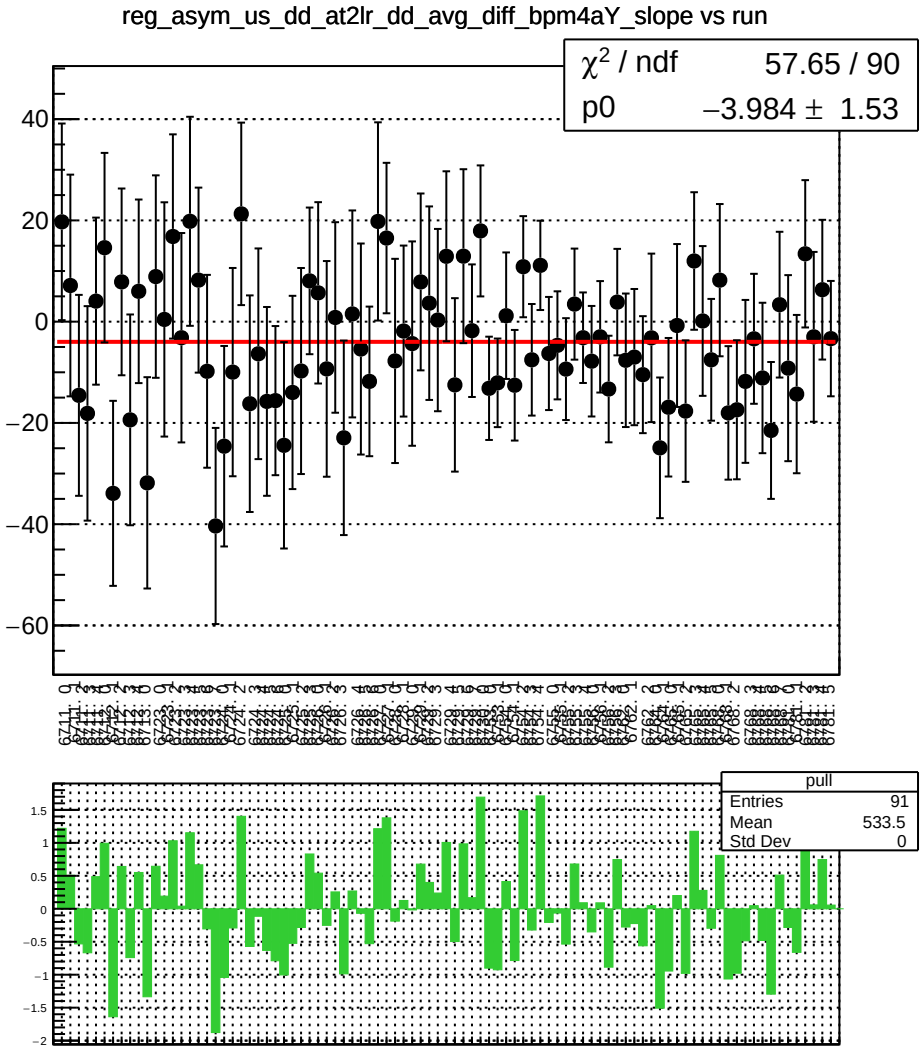

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 56.33 / 90
p0 −96.76 ± 2.032
pull
Entries 91
Mean 869.5
Std Dev 0
pull1D
Entries 91
Mean 0.002791
Std Dev 0.7868

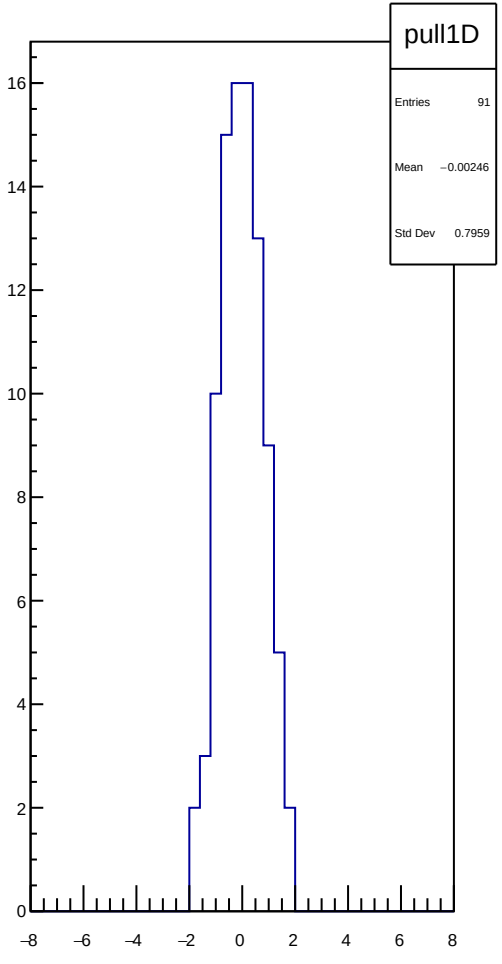

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 64.31 / 90
p0 4.014 ± 1.524
pull
Entries 91
Mean 367.9
Std Dev 0
pull1D
Entries 91
Mean 0.003044
Std Dev 0.8406

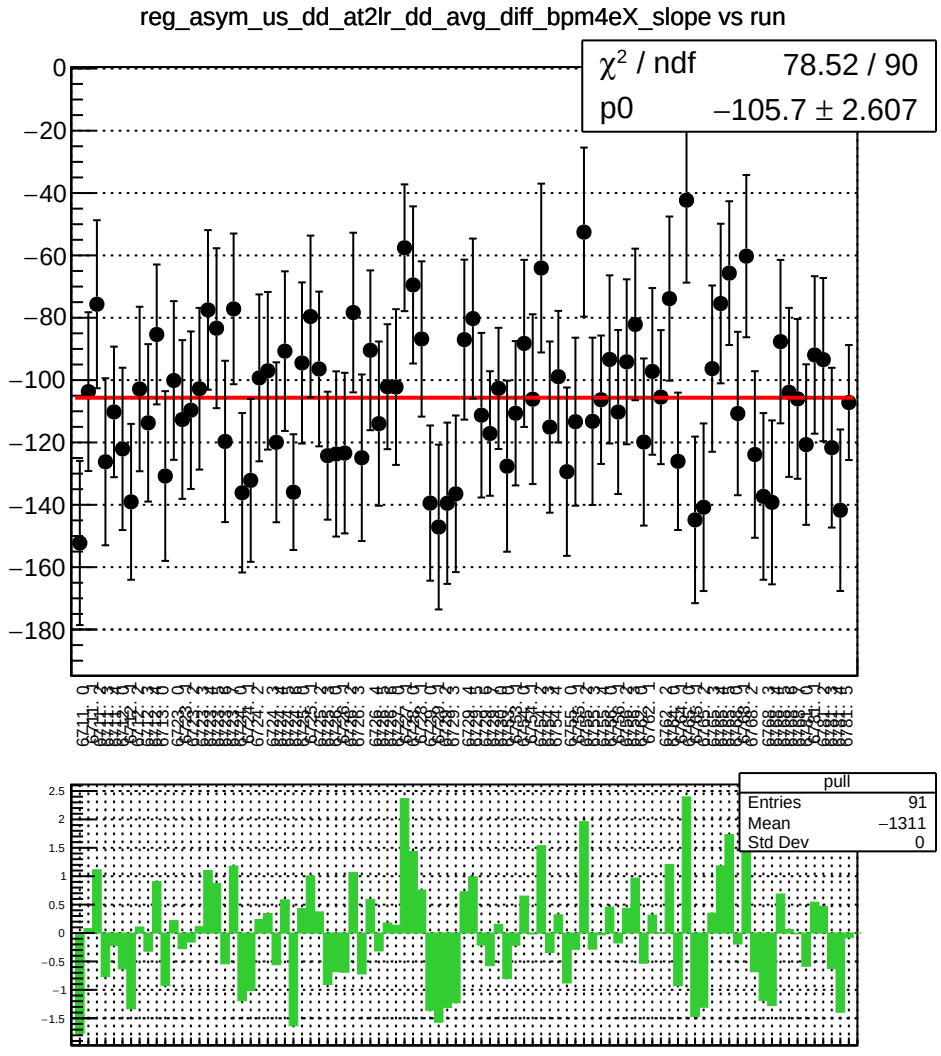

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 140.9 / 90
p0 −0.2971± 0.08749
pull
Entries 91
Mean −530
Std Dev 0
pull1D
Entries 91
Mean −0.02505
Std Dev 1.244

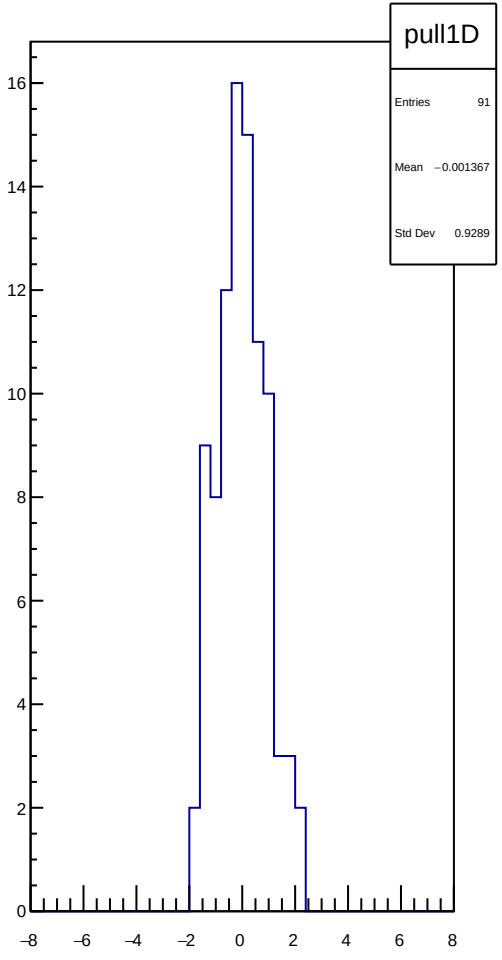

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 78.54 / 90
p0 −41.52 ± 2.721
50
0
−50
−100
−150
pull
Entries 91
Mean 1002
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

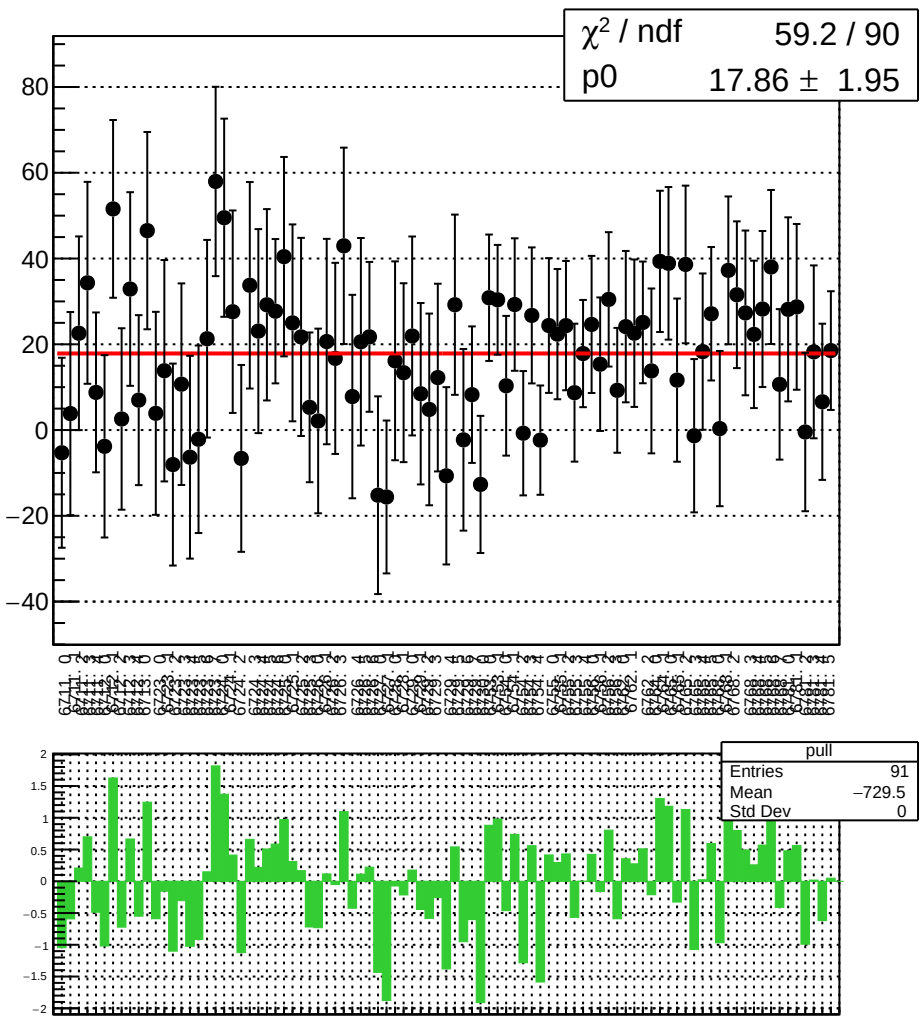

pull1D
Entries 91
Mean −0.004332
Std Dev 0.929
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

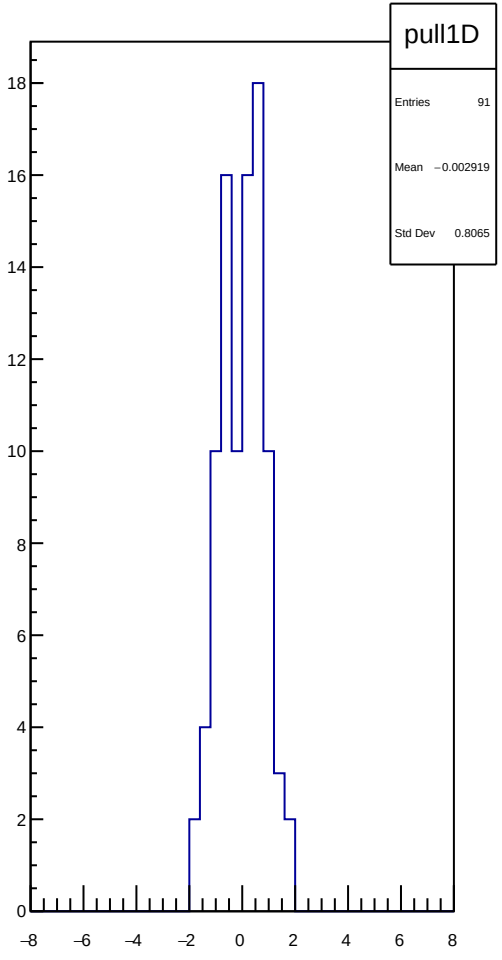

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 57.65 / 90
p0 −3.984 ± 1.53
pull
Entries 91
Mean 533.5
Std Dev 0

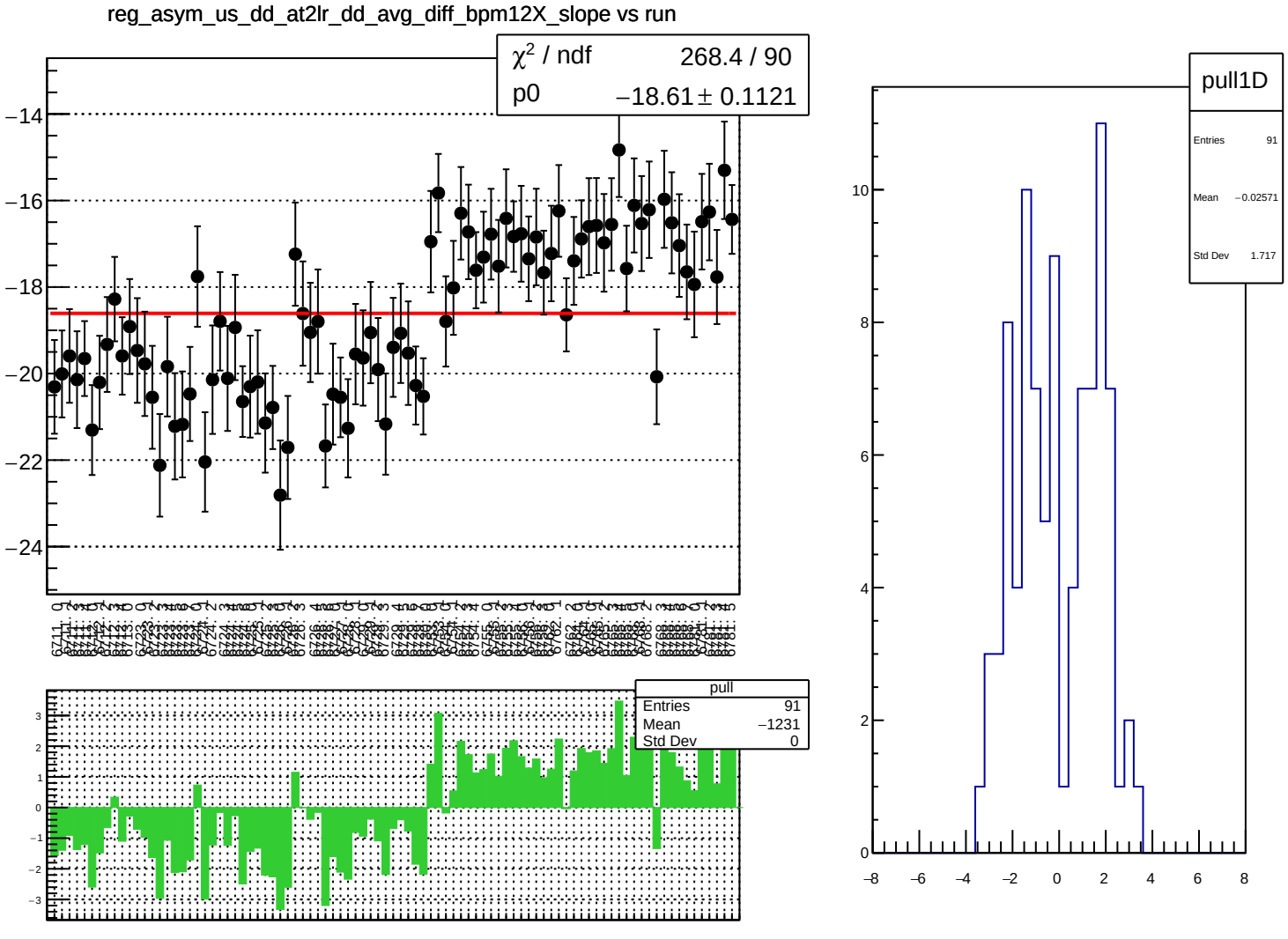

pull1D
Entries 91
Mean −0.00246
Std Dev 0.7959

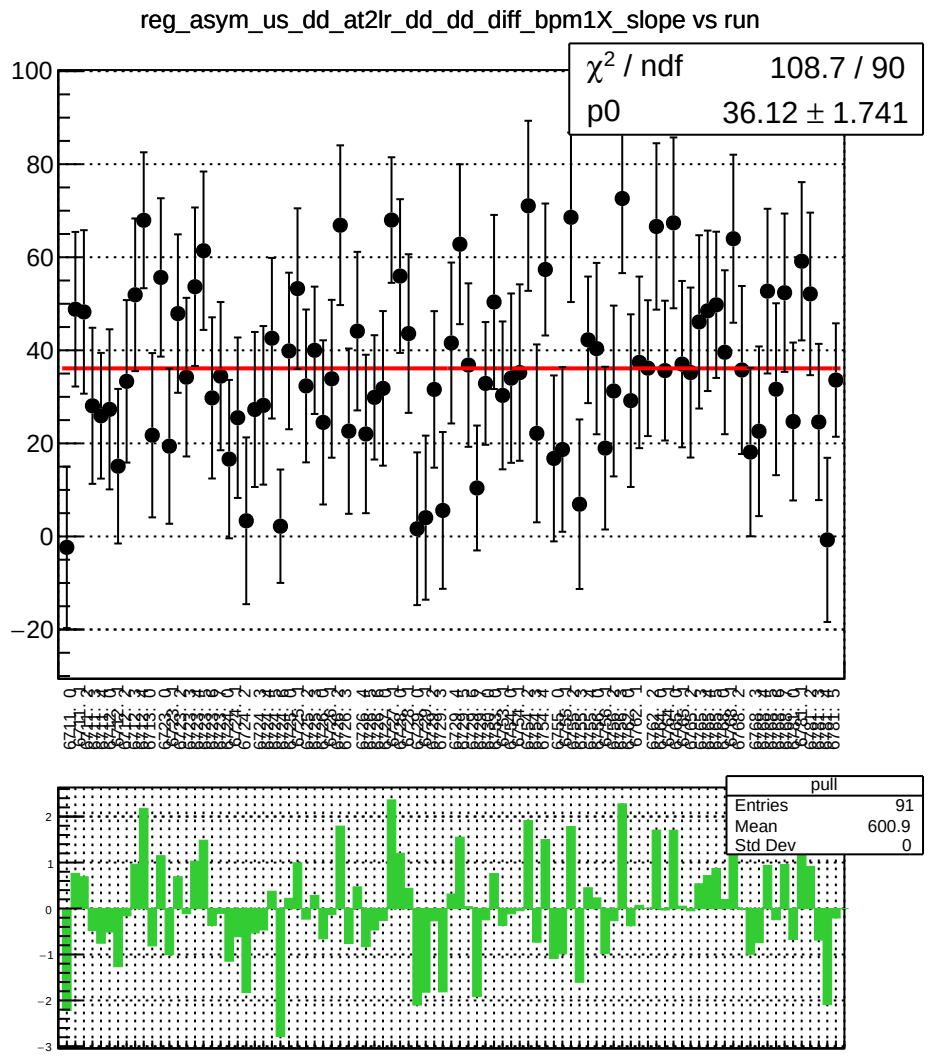

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 78.52 / 90
p0 −105.7 ± 2.607
pull
Entries 91
Mean −1311
Std Dev 0

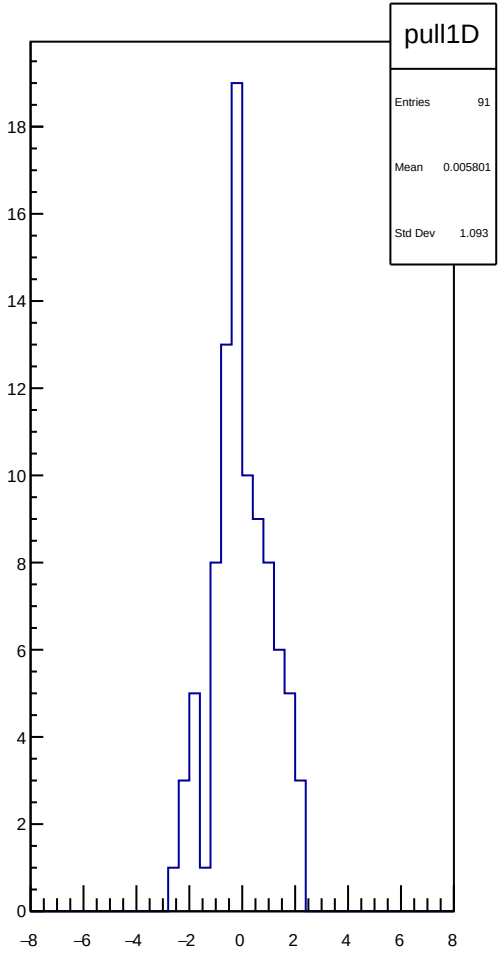

pull1D
Entries 91
Mean −0.001367
Std Dev 0.9289

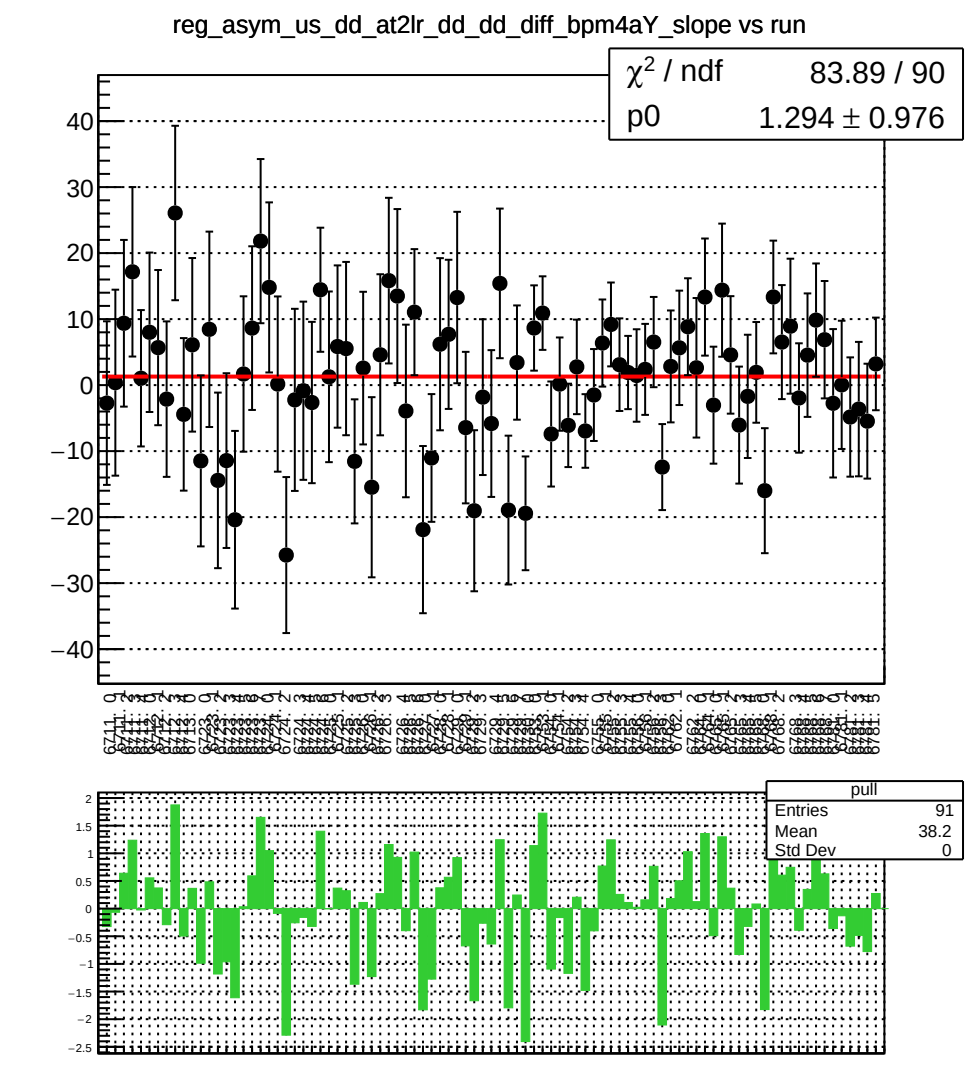

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 59.2 / 90
p0 17.86 ± 1.95
pull
Entries 91
Mean −729.5
Std Dev 0

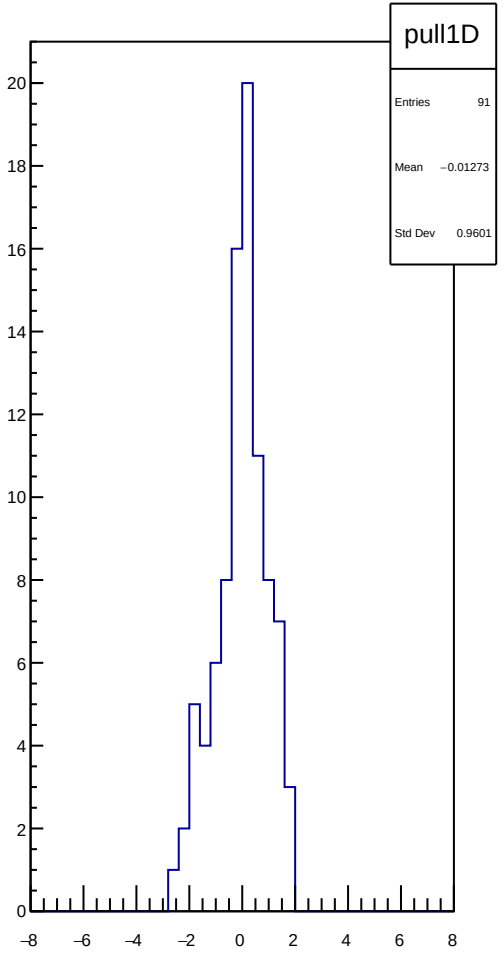

pull1D
Entries 91
Mean −0.002919
Std Dev 0.8065

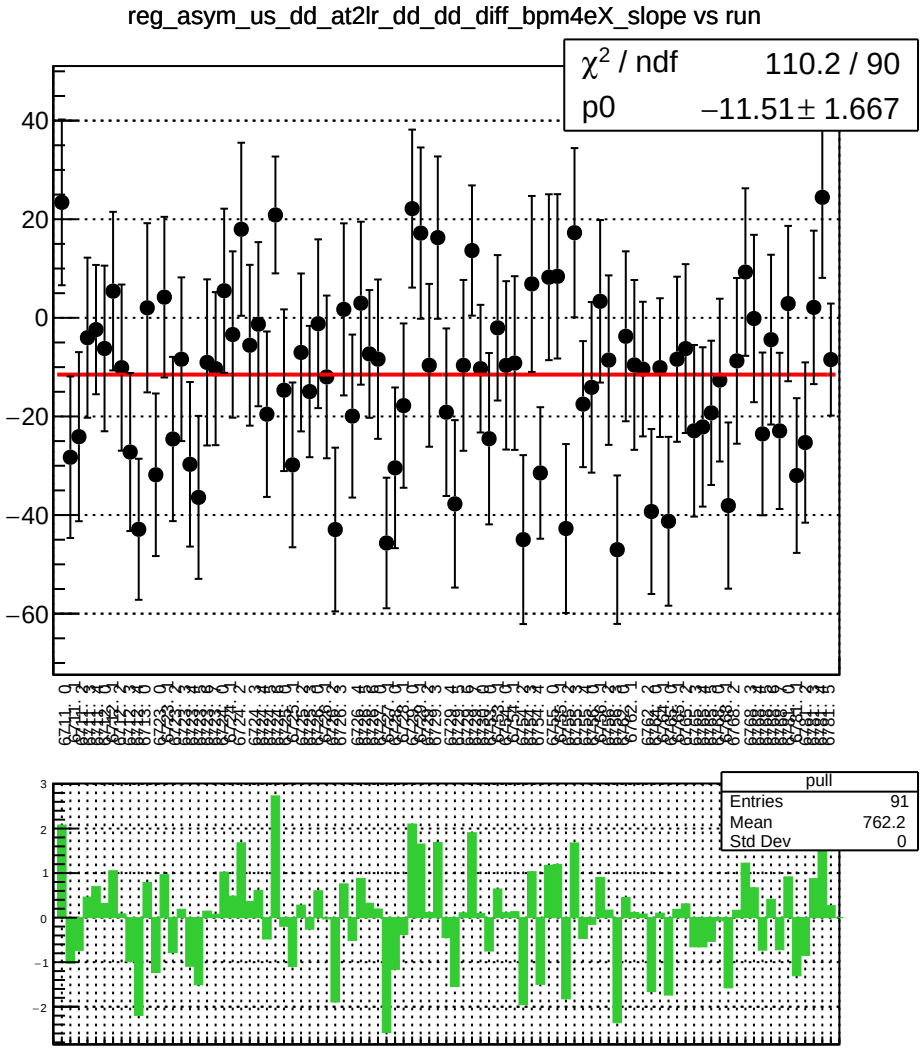

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 268.4 / 90
p0 −18.61 ± 0.1121
−14
−16
−18
−20
−22
−24
pull
Entries 91
Mean −1231
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.02571
Std Dev 1.717
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

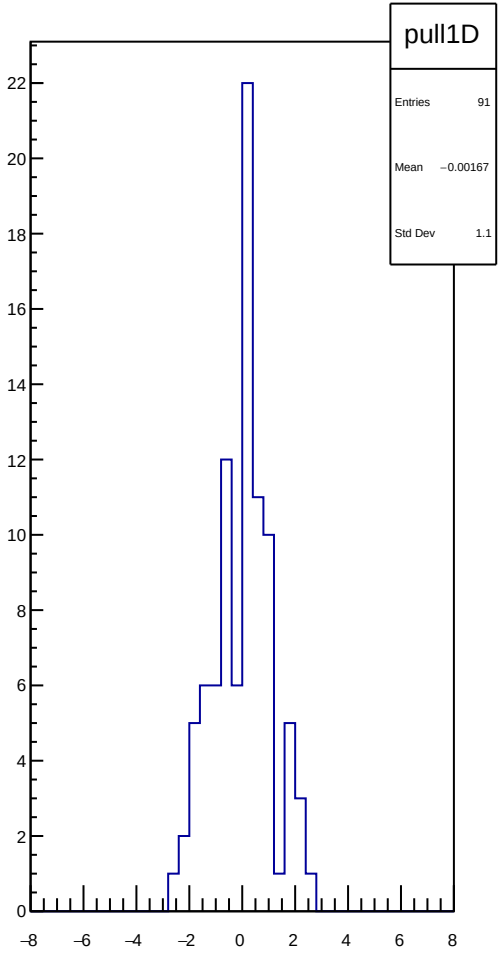

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 108.7 / 90
p0 36.12 ± 1.741
pull
Entries 91
Mean 600.9
Std Dev 0

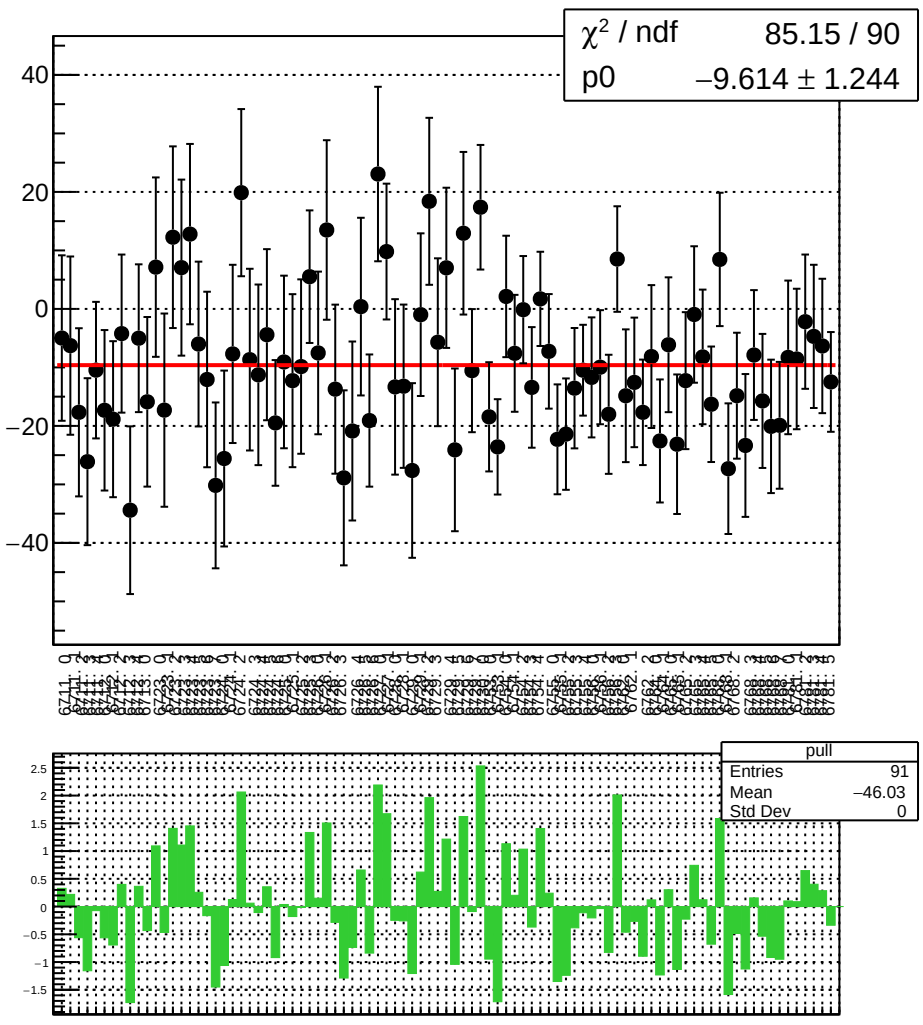

pull1D
Entries 91
Mean 0.005801
Std Dev 1.093

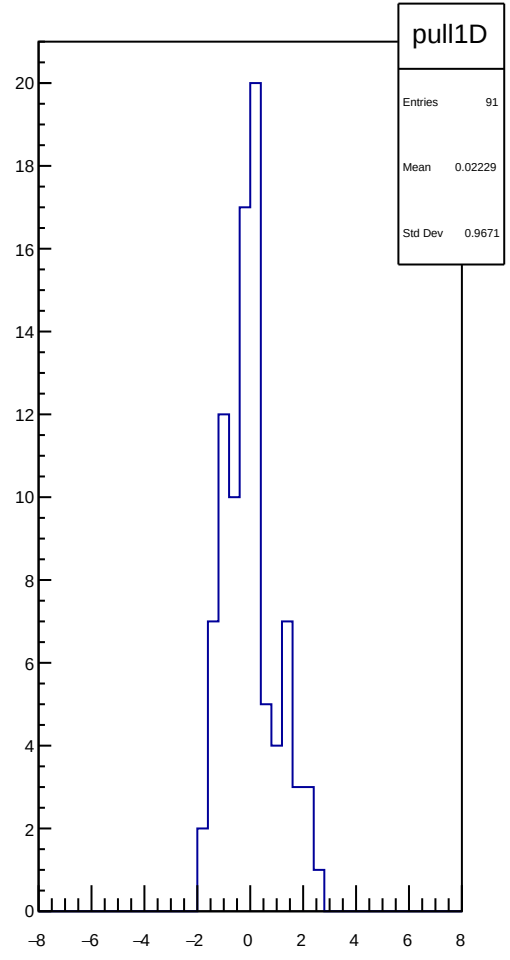

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 83.89 / 90
p0 1.294 ± 0.976
pull
Entries 91
Mean 38.2
Std Dev 0

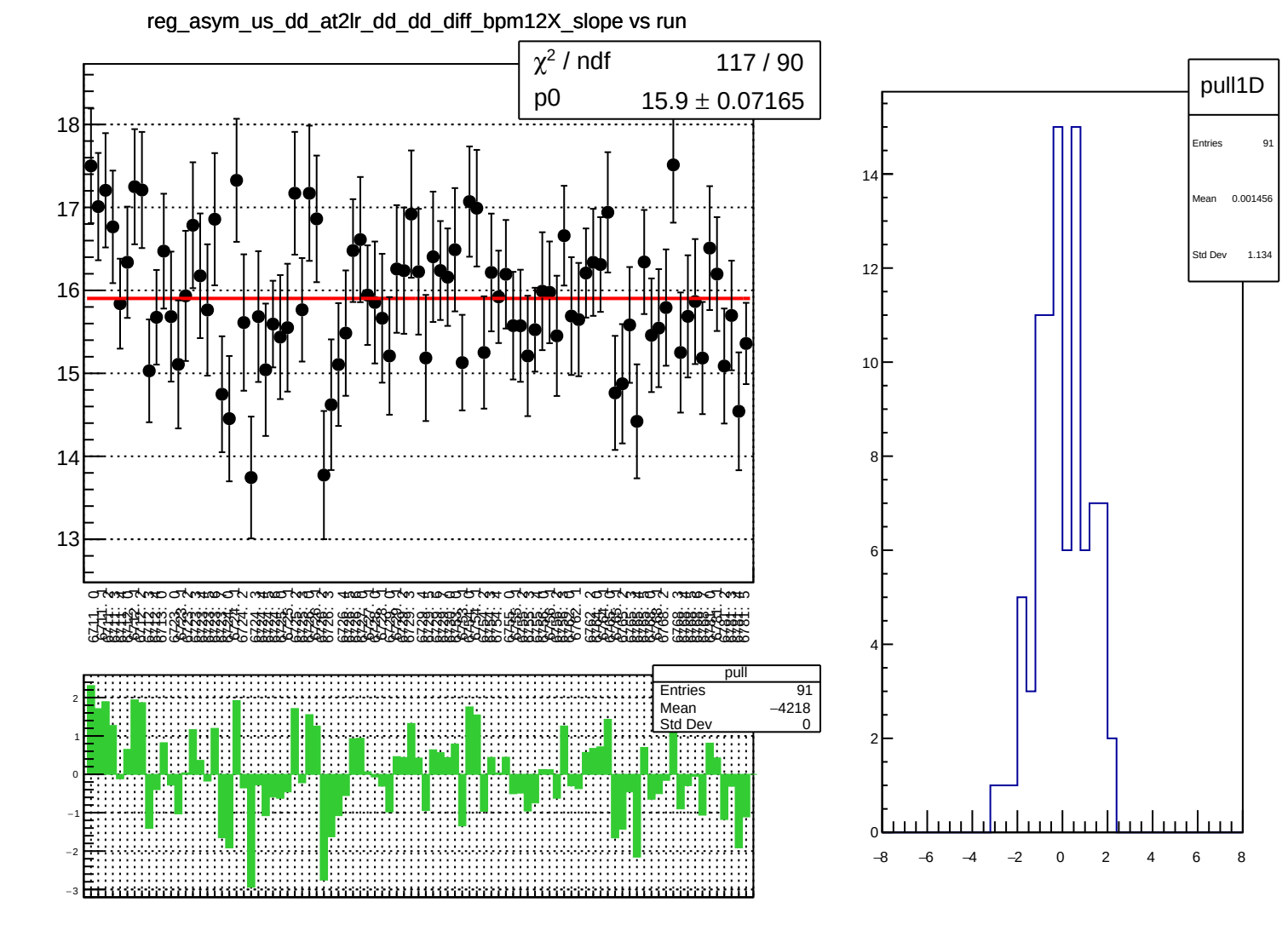

pull1D
Entries 91
Mean −0.01273
Std Dev 0.9601

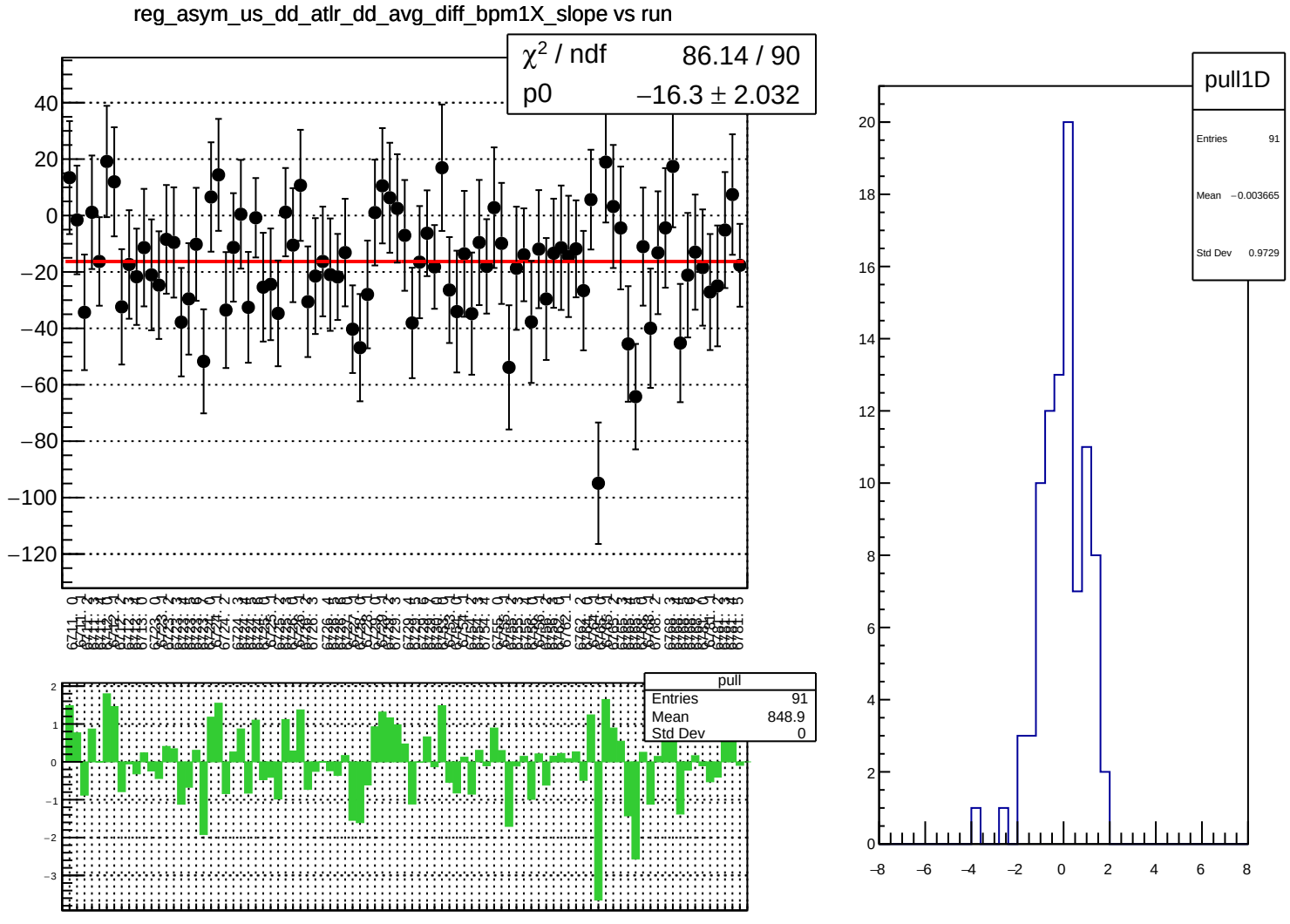

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 110.2 / 90
p0 −11.51± 1.667
pull
Entries 91
Mean 762.2
Std Dev 0

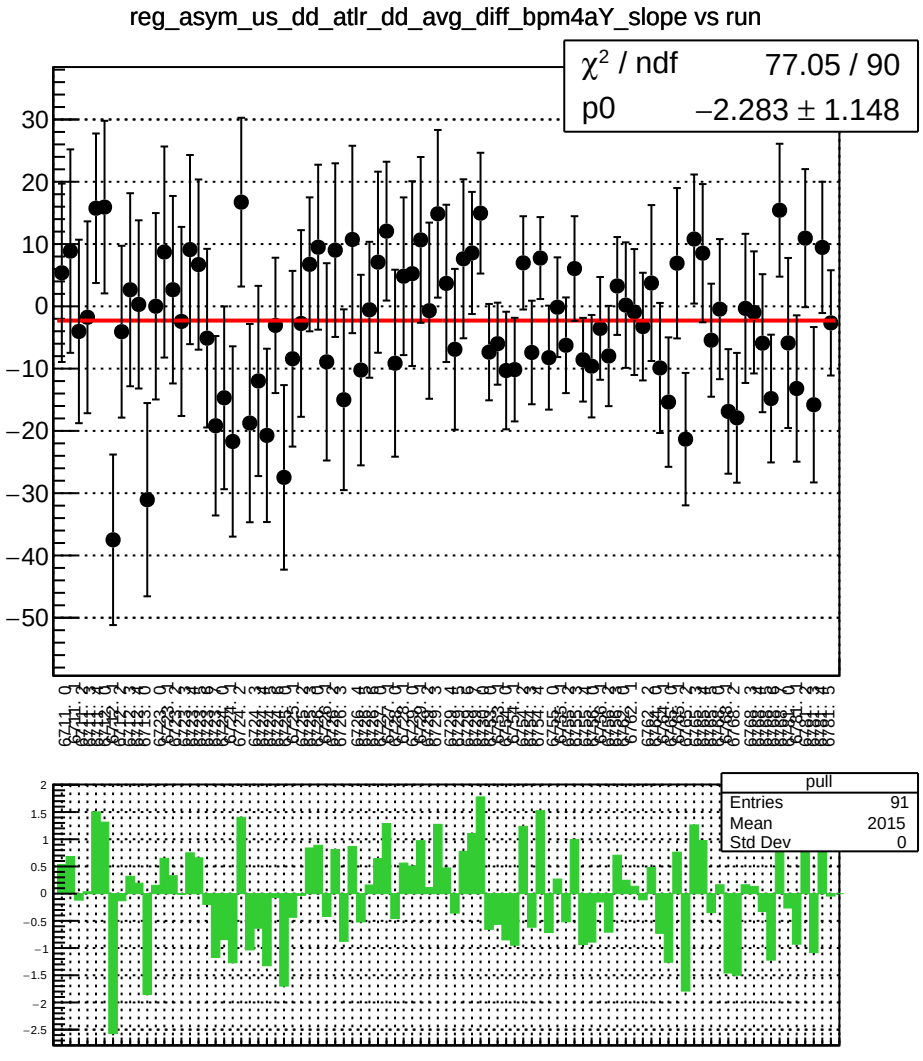

pull1D
Entries 91
Mean −0.00167
Std Dev 1.1

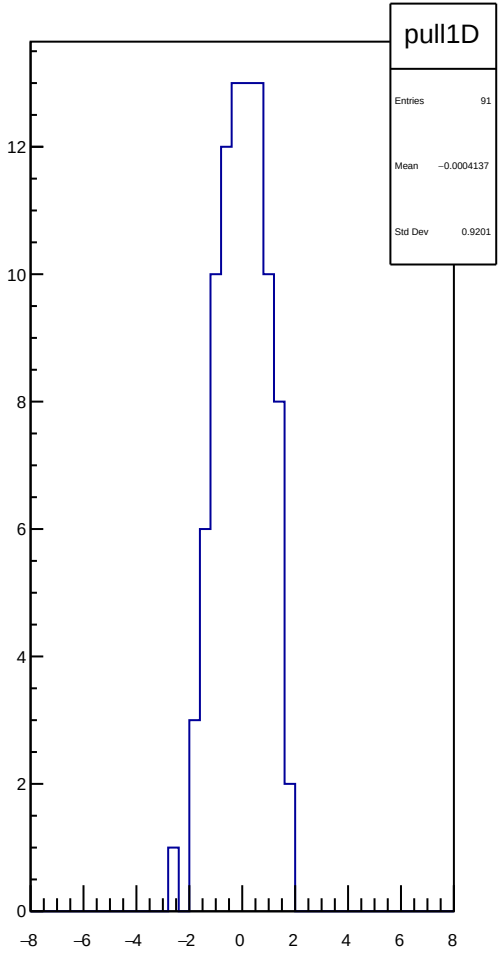

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 85.15 / 90
p0 −9.614 ± 1.244
pull
Entries 91
Mean −46.03
Std Dev 0

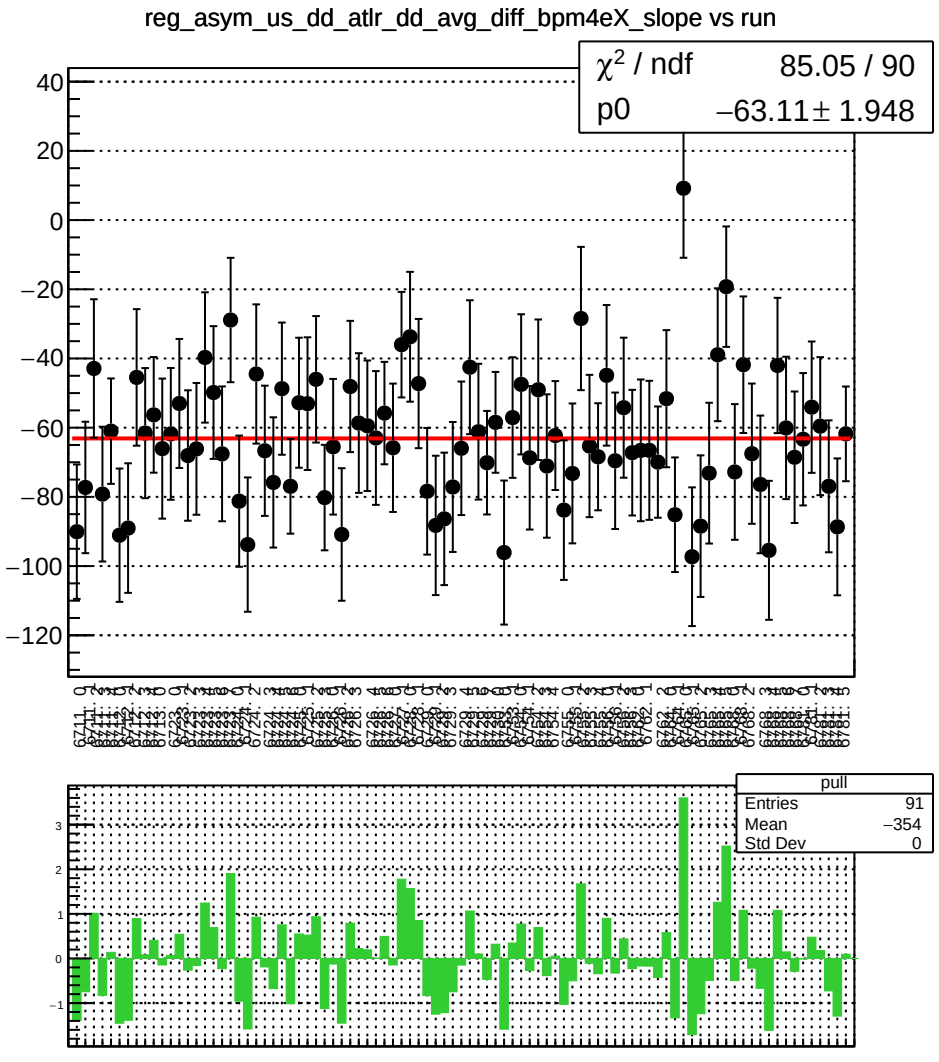

pull1D
Entries 91
Mean 0.02229
Std Dev 0.9671

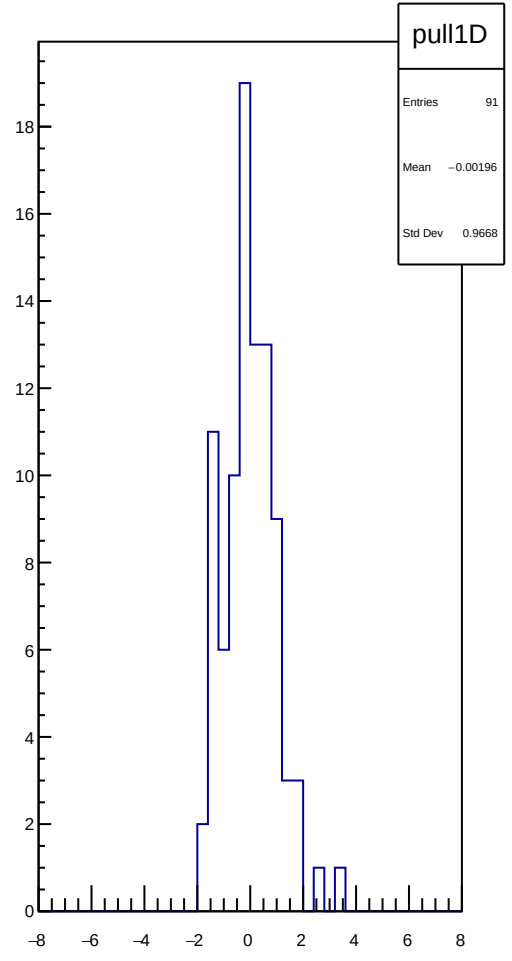

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 117 / 90
p0 15.9 ± 0.07165
pull
Entries 91
Mean −4218
Std Dev 0
pull1D
Entries 91
Mean 0.001456
Std Dev 1.134

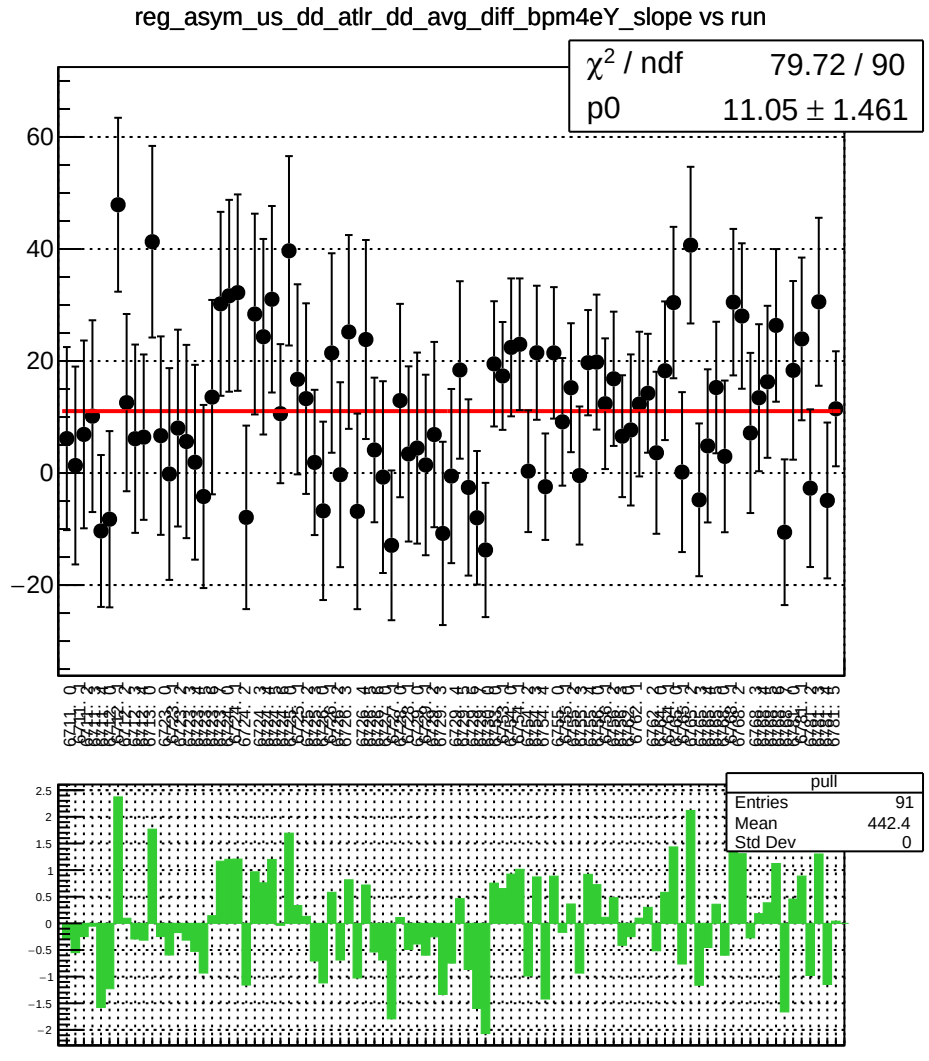

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 86.14 / 90
p0 −16.3 ± 2.032
pull
Entries 91
Mean 848.9
Std Dev 0
pull1D
Entries 91
Mean −0.003665
Std Dev 0.9729

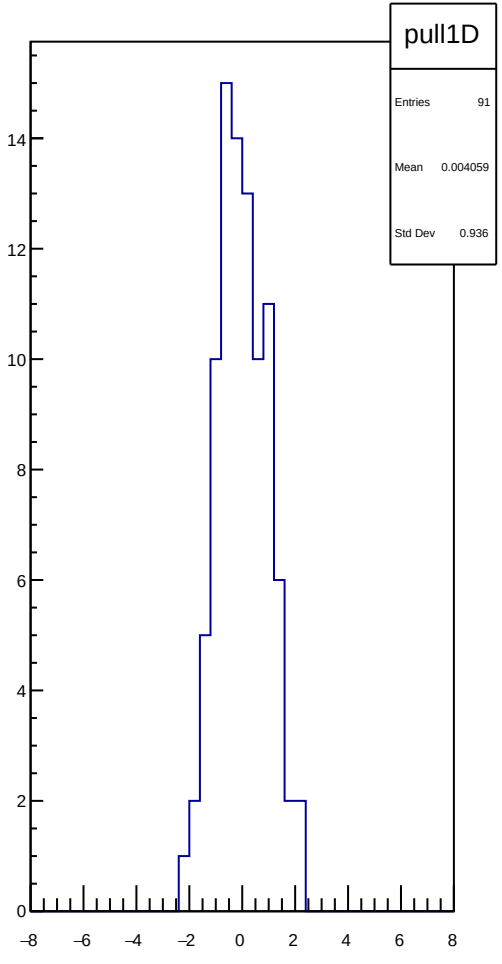

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 77.05 / 90
p0 −2.283 ± 1.148
pull
Entries 91
Mean 2015
Std Dev 0

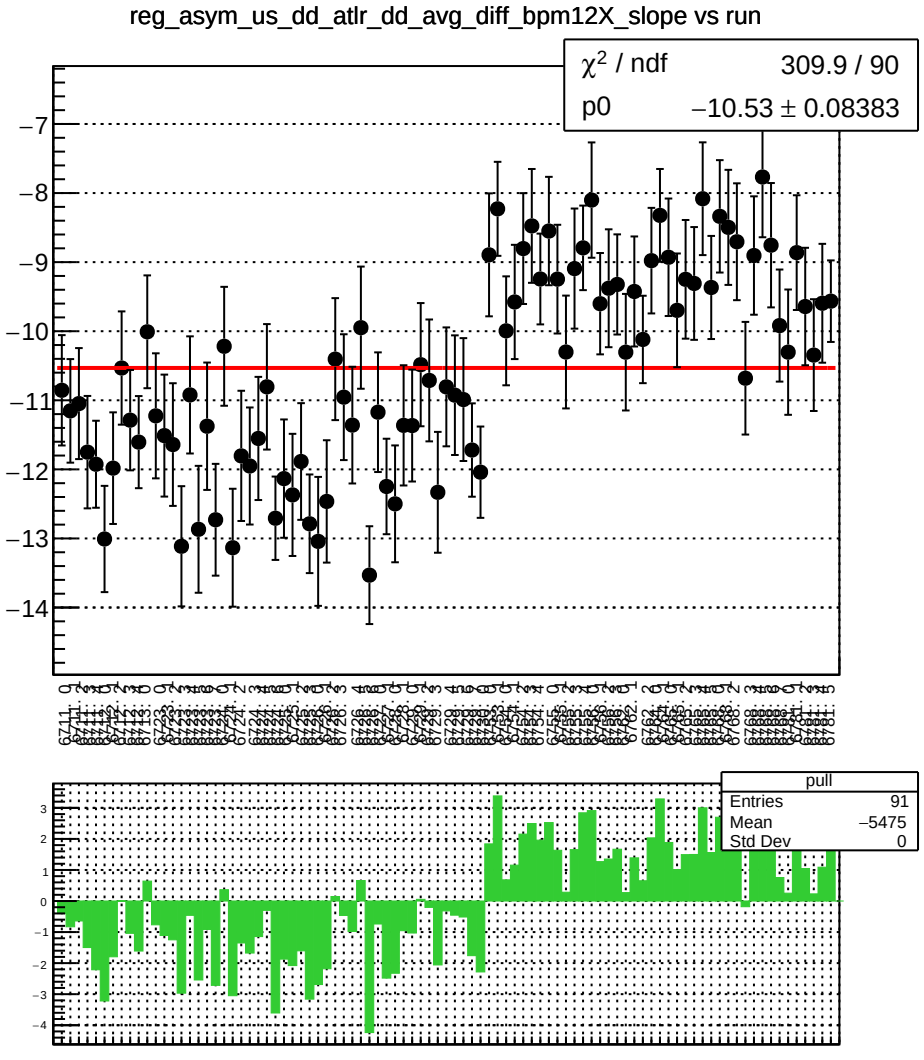

pull1D
Entries 91
Mean −0.0004137
Std Dev 0.9201

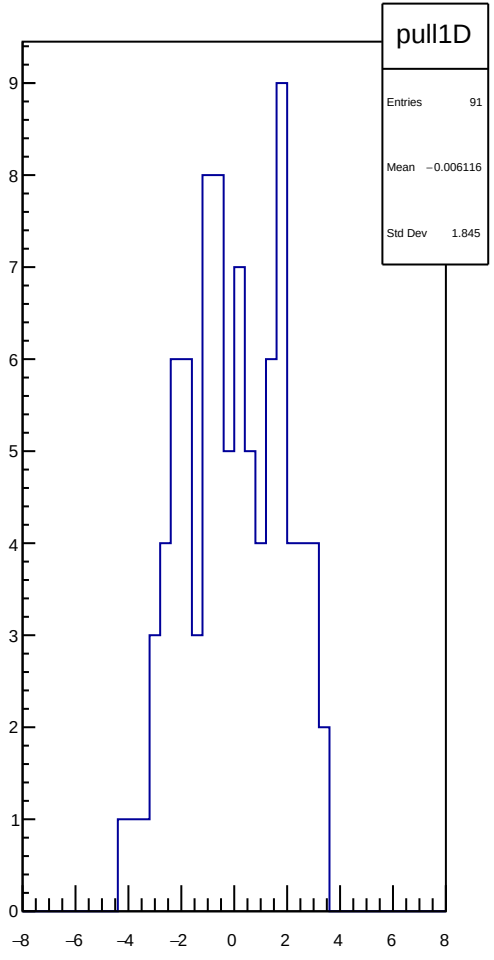

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 85.05 / 90
p0 −63.11± 1.948
pull
Entries 91
Mean −354
Std Dev 0

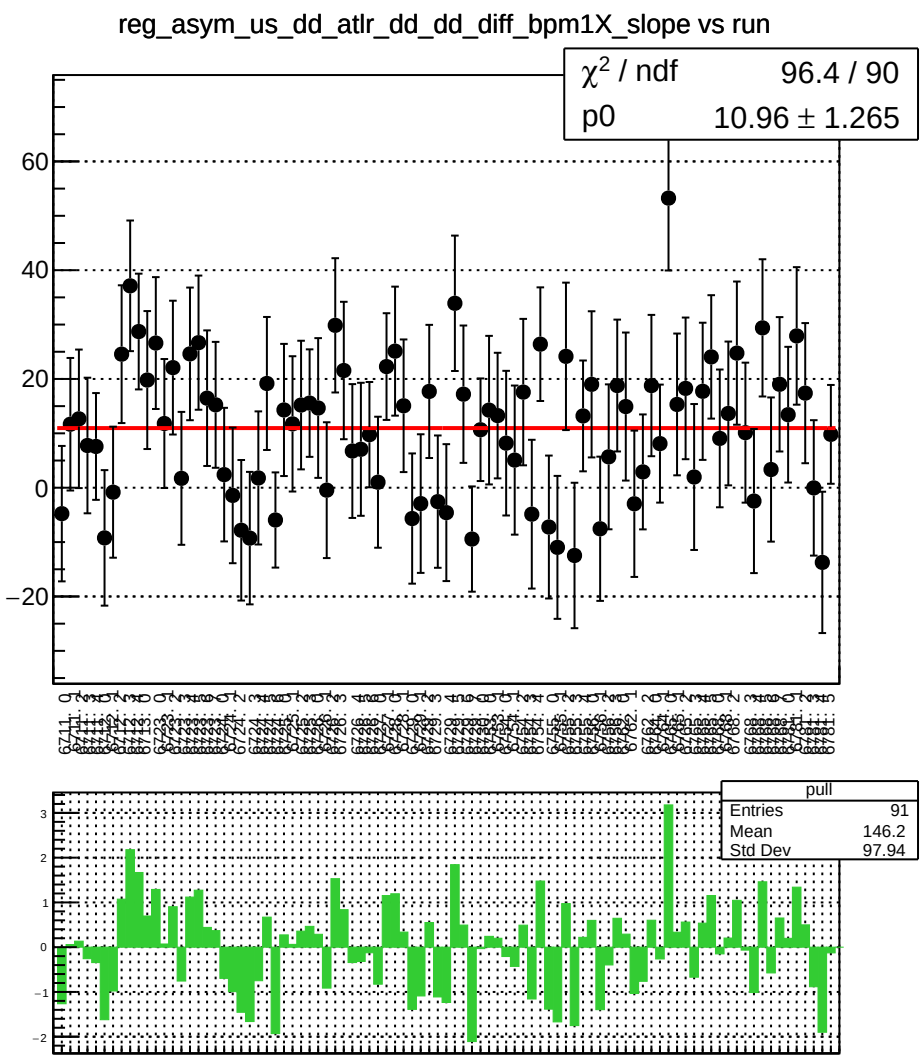

pull1D
Entries 91
Mean −0.00196
Std Dev 0.9668

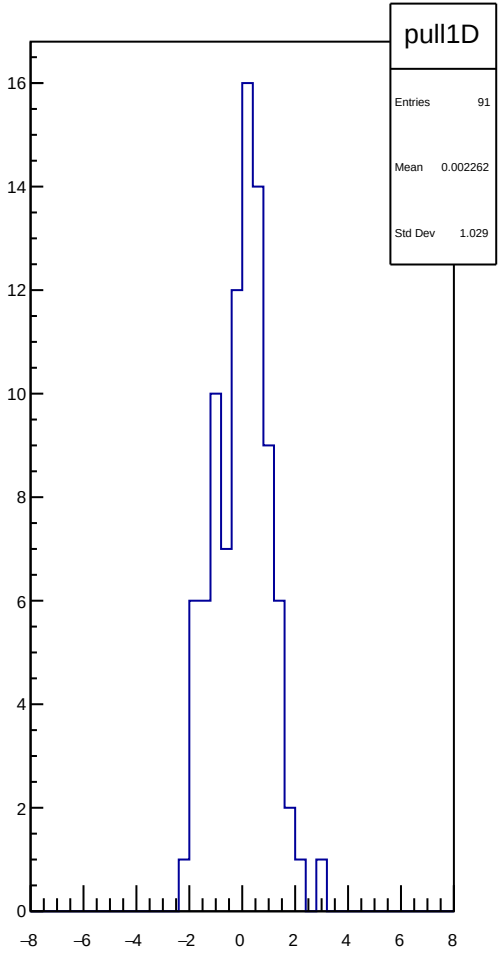

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.72 / 90
p0 11.05 ± 1.461
pull
Entries 91
Mean 442.4
Std Dev 0

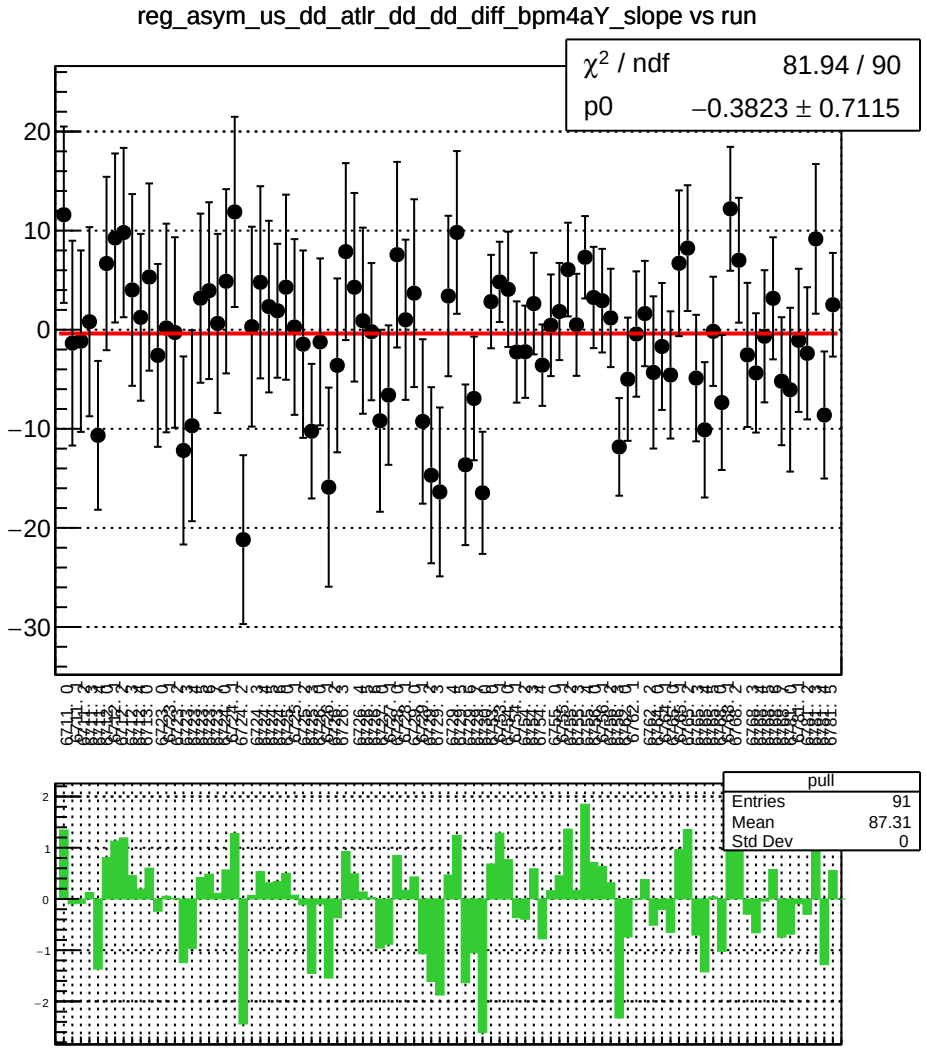

pull1D
Entries 91
Mean 0.004059
Std Dev 0.936

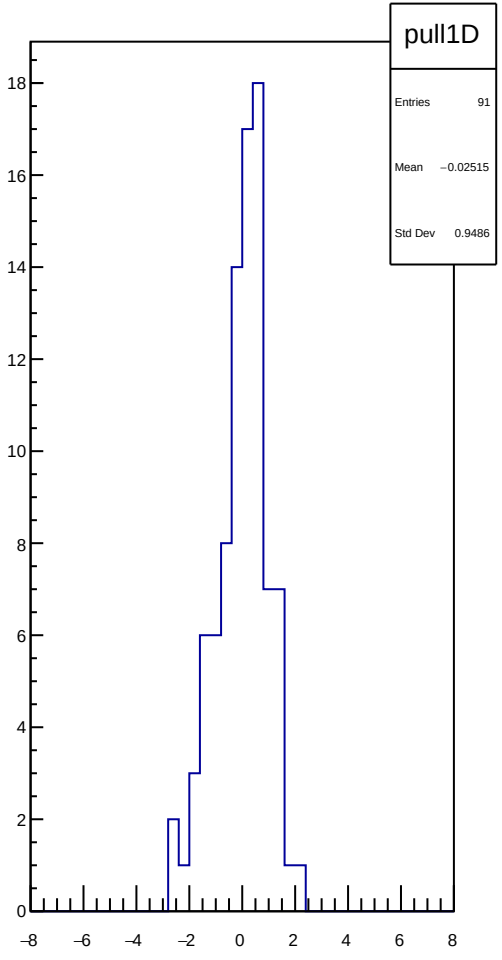

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 309.9 / 90
p0 −10.53 ± 0.08383
pull
Entries 91
Mean −5475
Std Dev 0

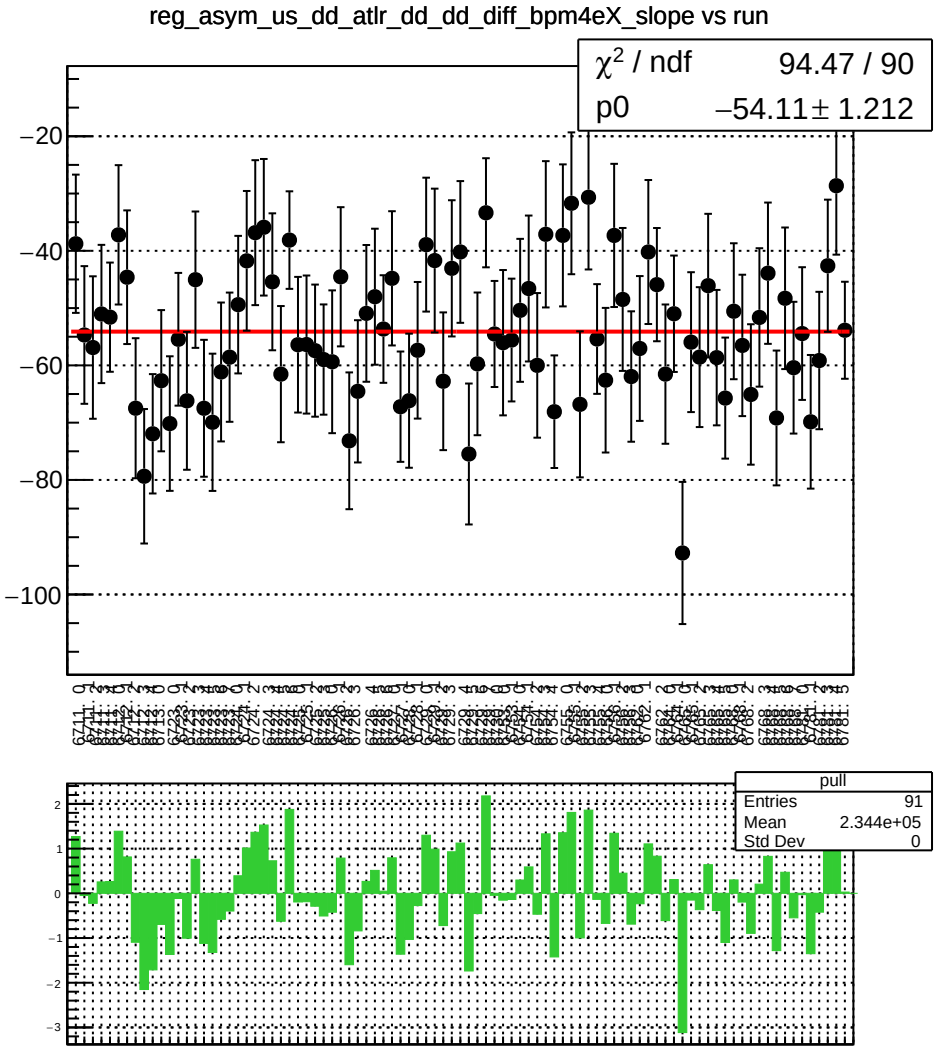

pull1D
Entries 91
Mean −0.006116
Std Dev 1.845

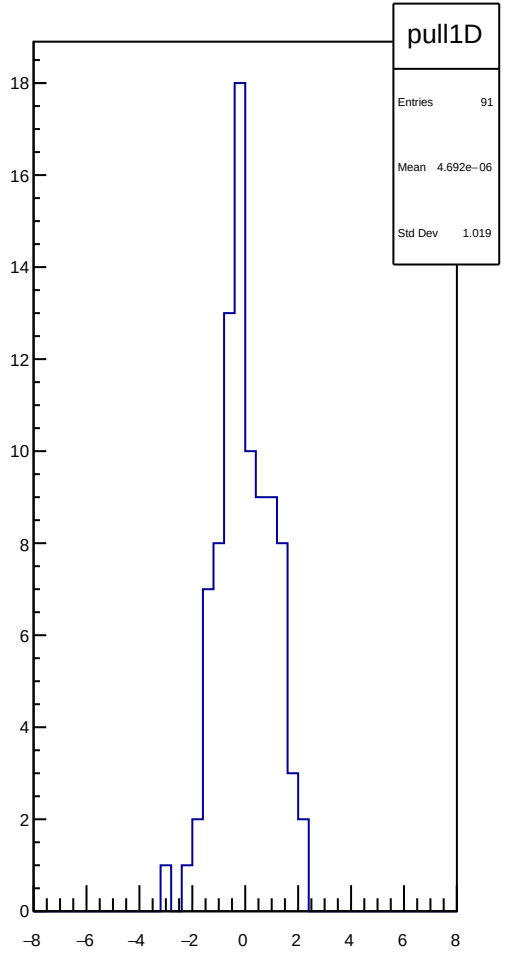

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 96.4 / 90
p0 10.96 ± 1.265
pull
Entries 91
Mean 146.2
Std Dev 97.94

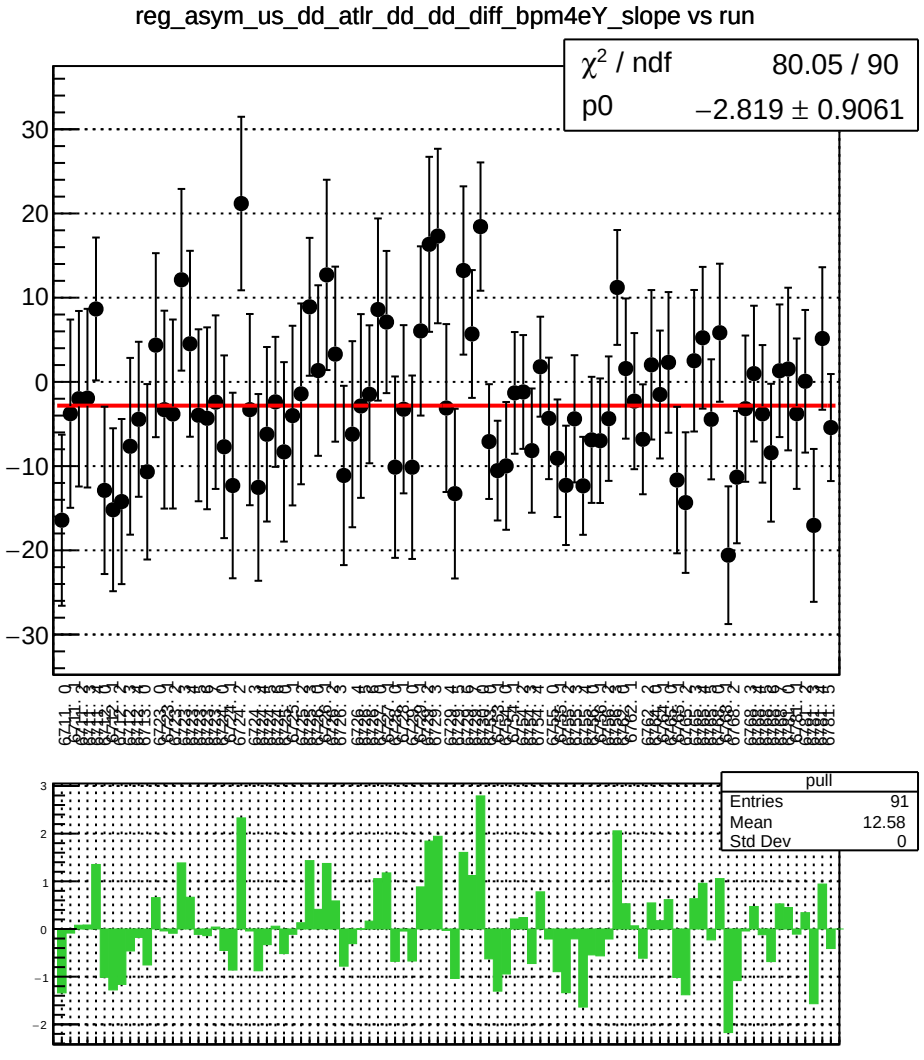

pull1D
Entries 91
Mean 0.002262
Std Dev 1.029

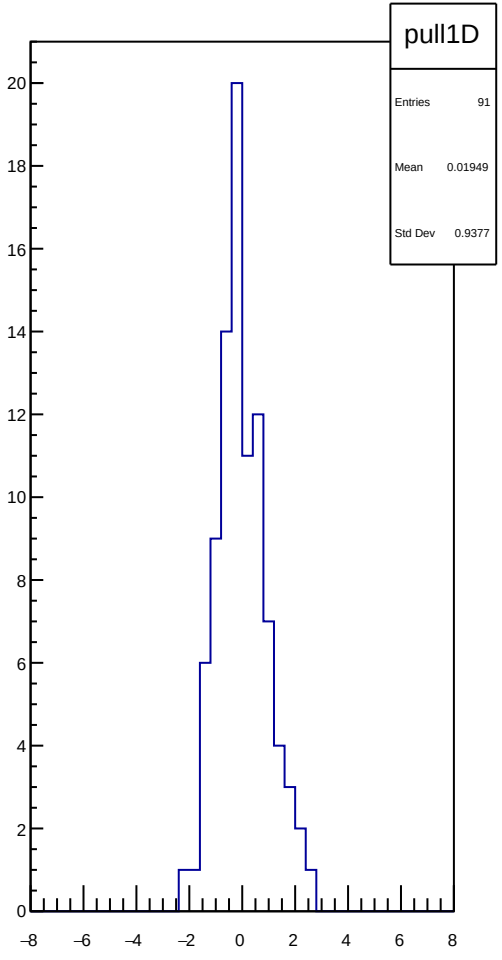

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 81.94 / 90
p0 −0.3823 ± 0.7115
pull
Entries 91
Mean 87.31
Std Dev 0

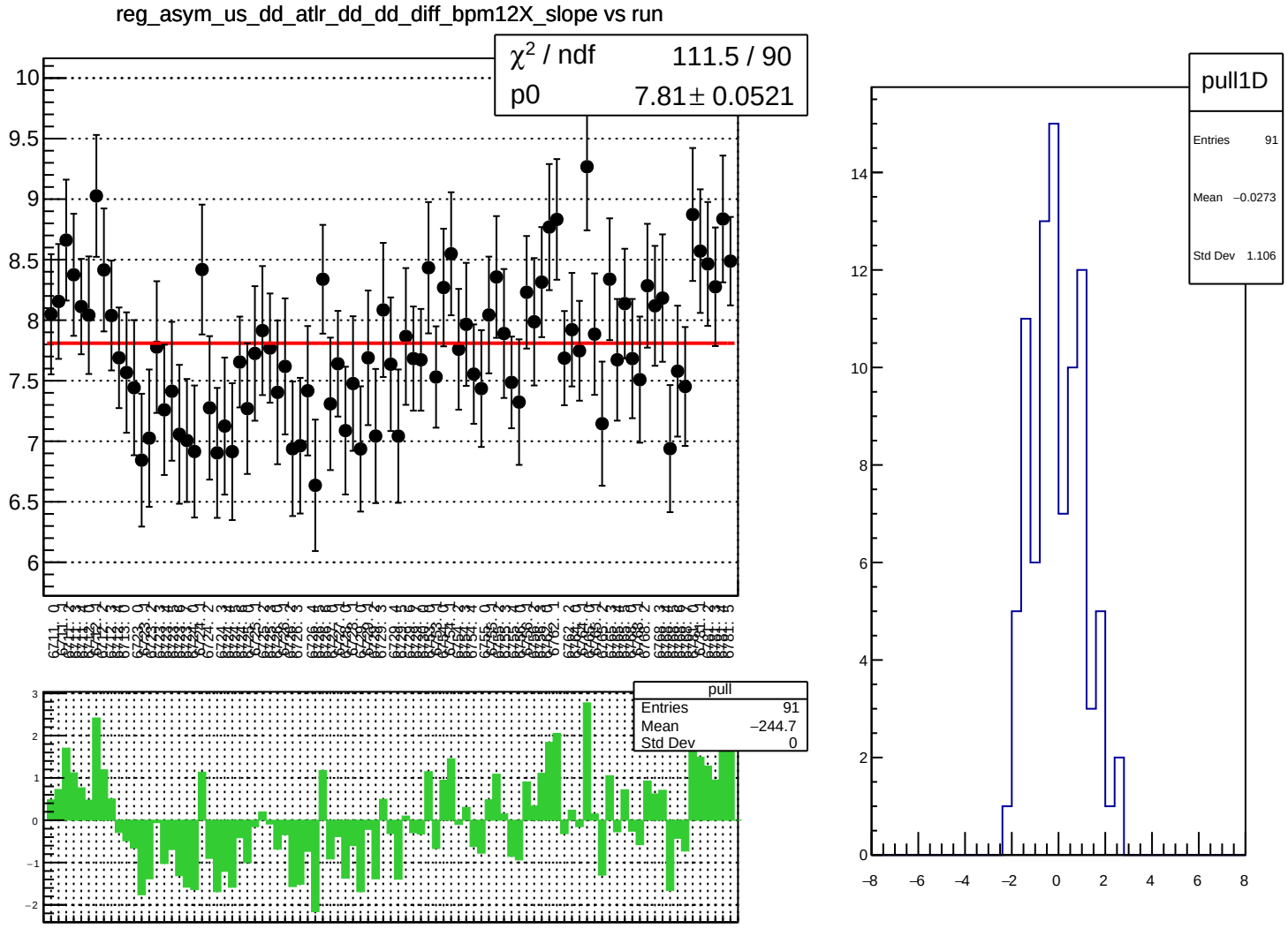

pull1D
Entries 91
Mean −0.02515
Std Dev 0.9486

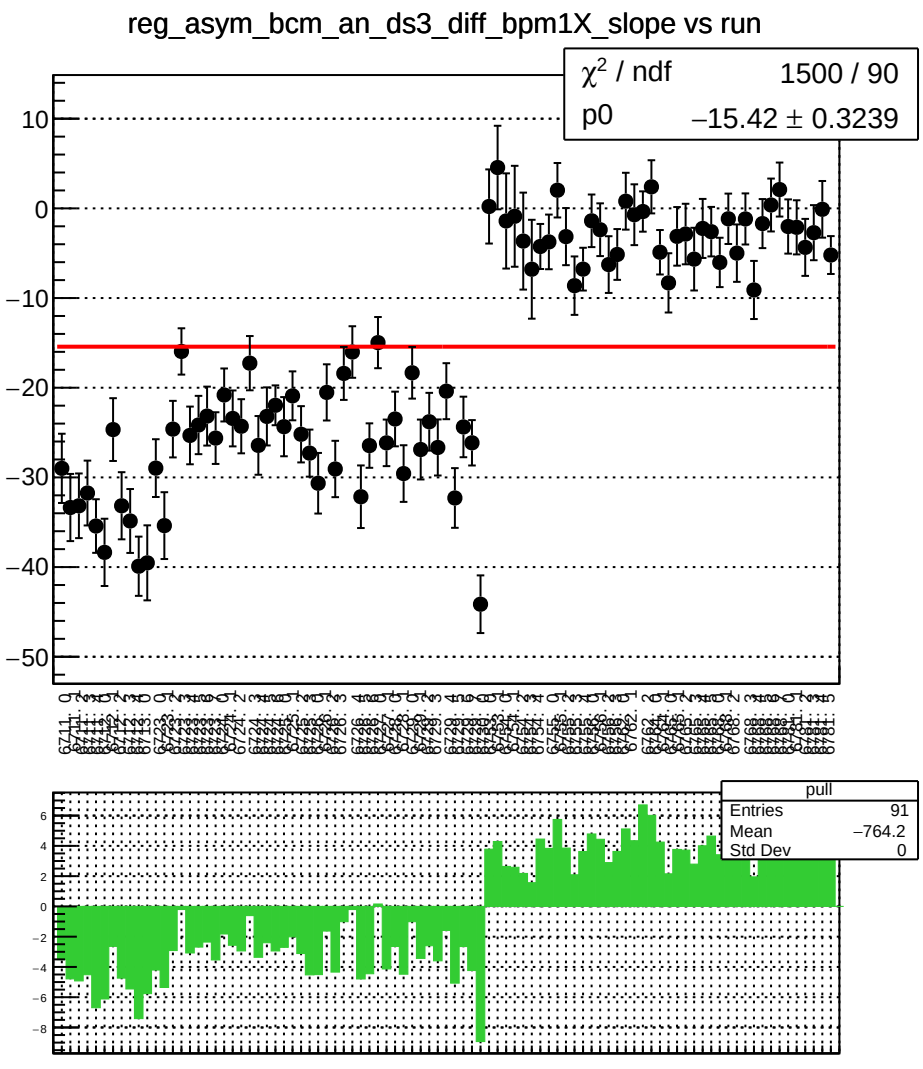

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 94.47 / 90
p0 −54.11± 1.212
−20
−40
−60
−80
−100
pull
Entries 91
Mean 2.344e+05
Std Dev 0
2
1
0
−1
−2
−3

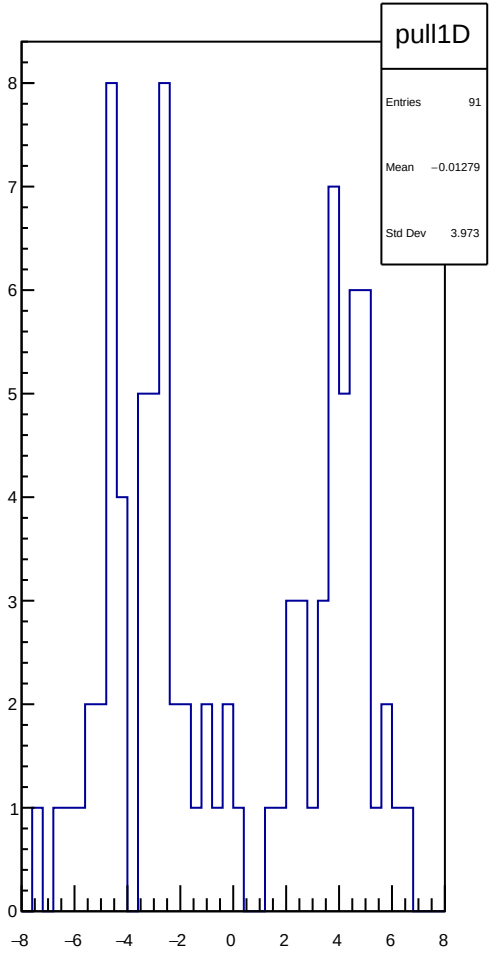

pull1D
Entries 91
Mean 4.692e−06
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

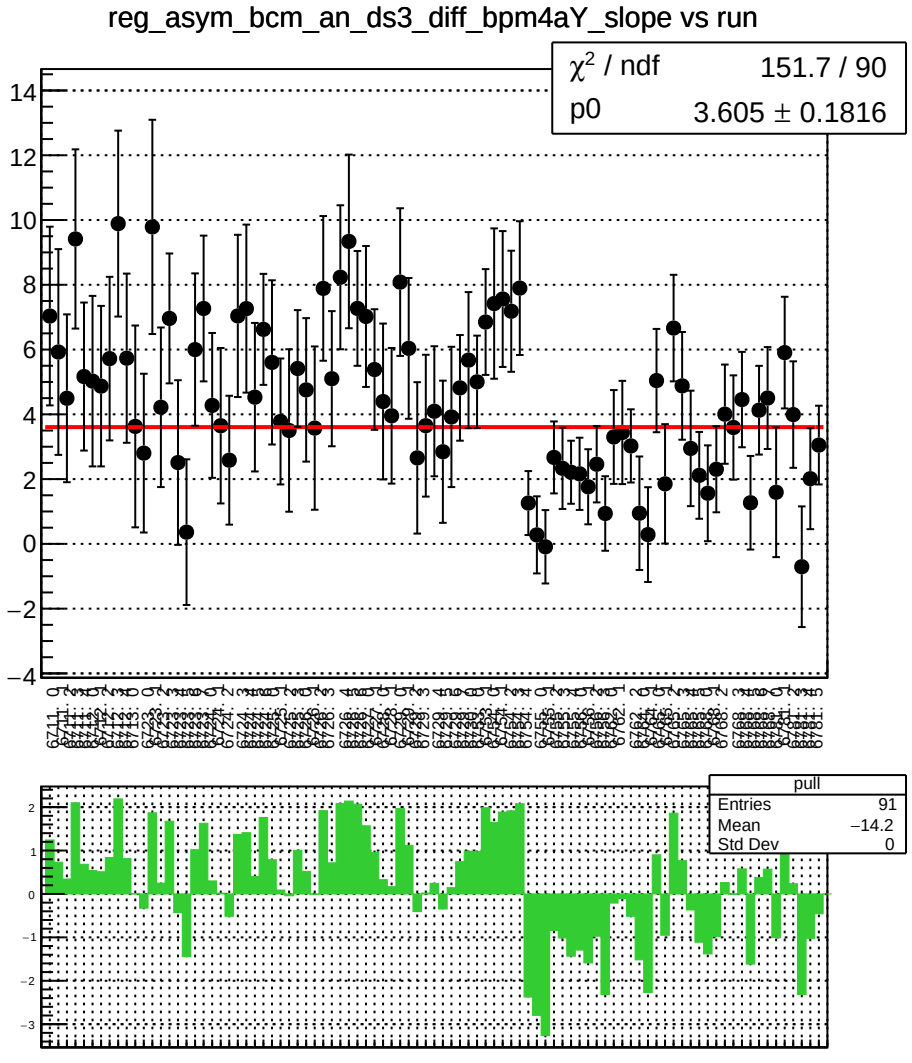

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.05 / 90
p0 −2.819 ± 0.9061
pull
Entries 91
Mean 12.58
Std Dev 0

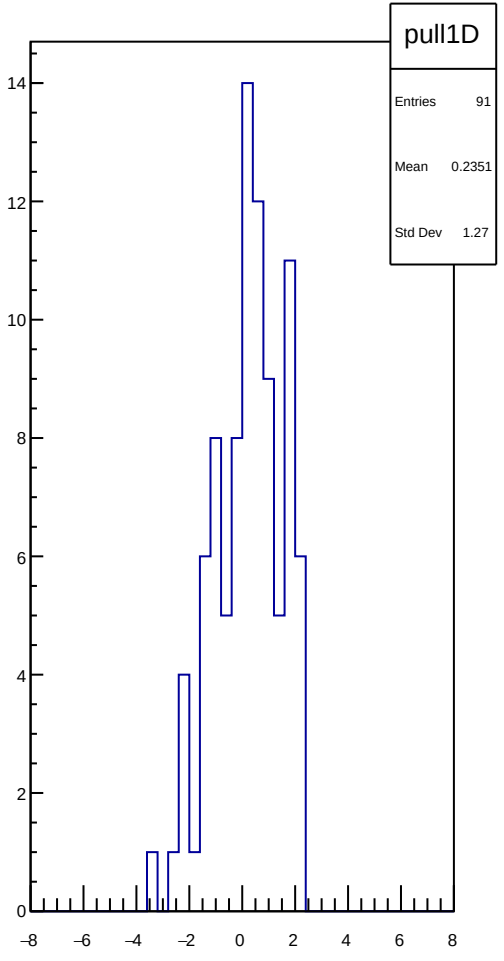

pull1D
Entries 91
Mean 0.01949
Std Dev 0.9377

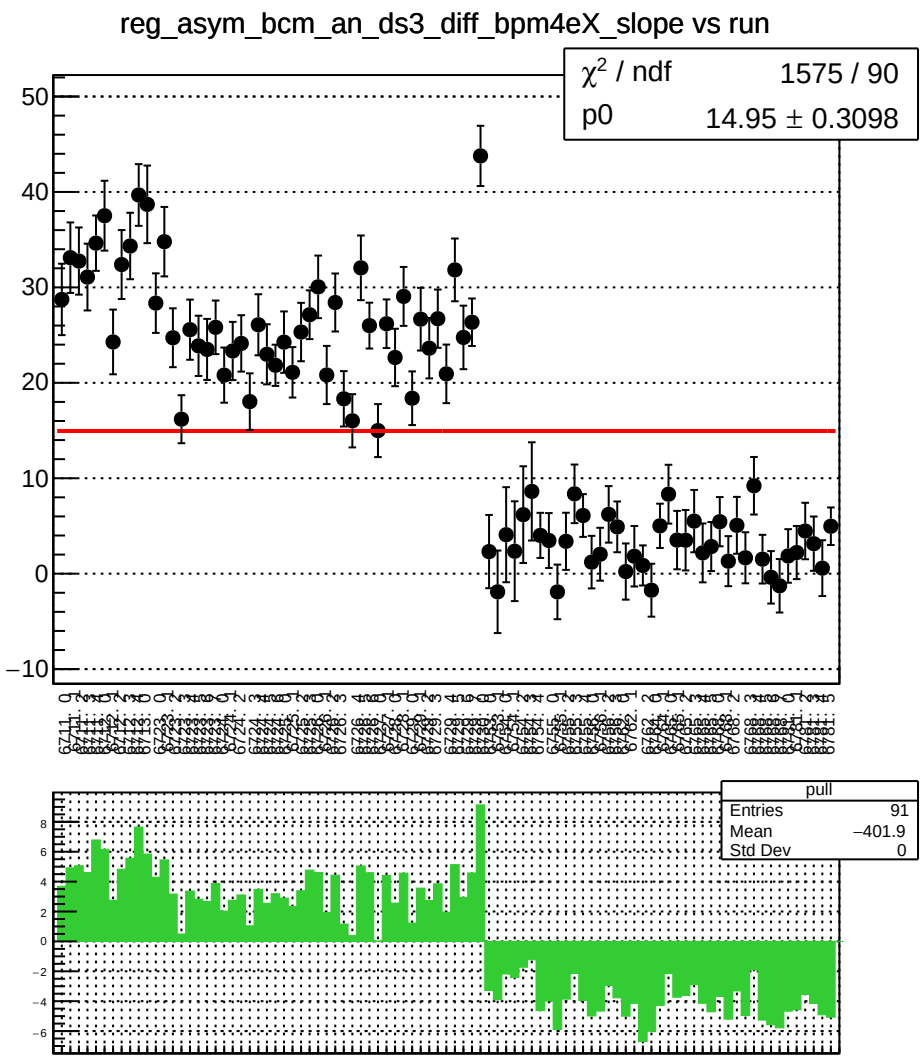

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 111.5 / 90
p0 7.81 ± 0.0521
pull
Entries 91
Mean −244.7
Std Dev 0
pull1D
Entries 91
Mean −0.0273
Std Dev 1.106

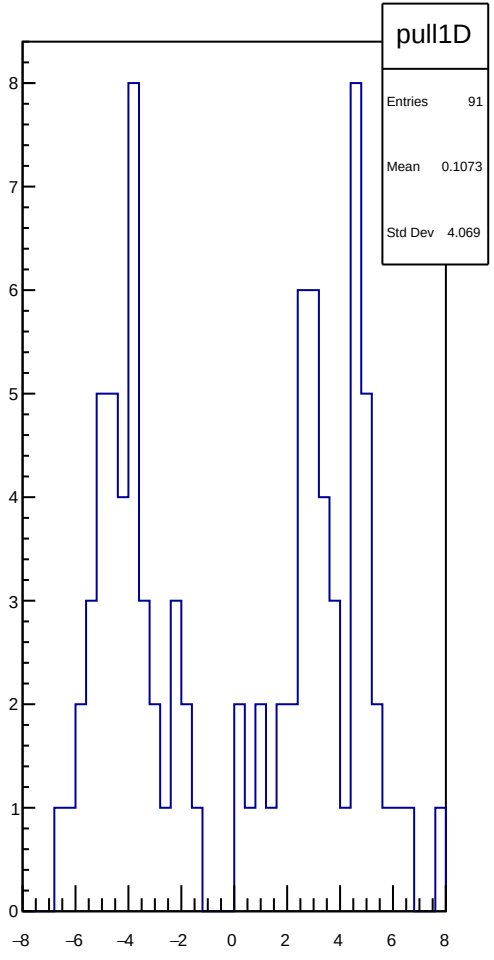

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 1500 / 90
p0 −15.42 ± 0.3239
pull
Entries 91
Mean −764.2
Std Dev 0

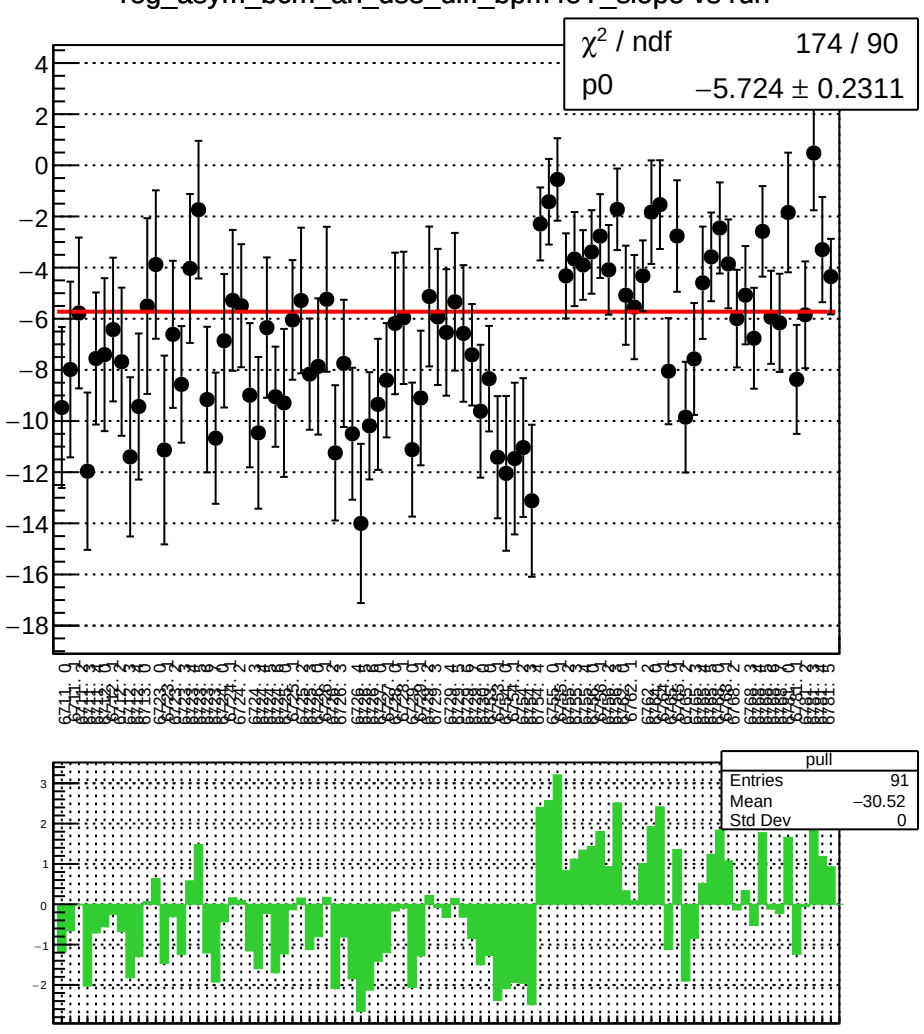

pull1D
Entries 91
Mean −0.01279
Std Dev 3.973

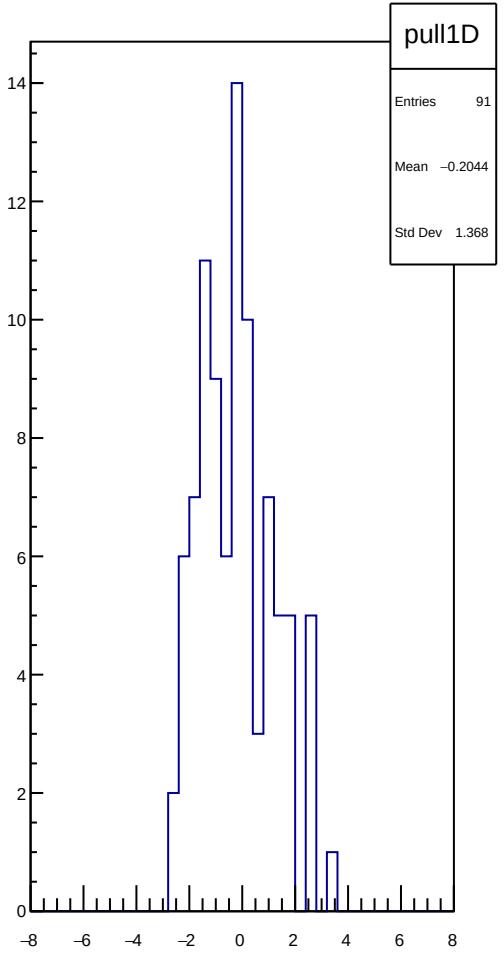

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 151.7 / 90
p0 3.605 ± 0.1816
pull
Entries 91
Mean −14.2
Std Dev 0

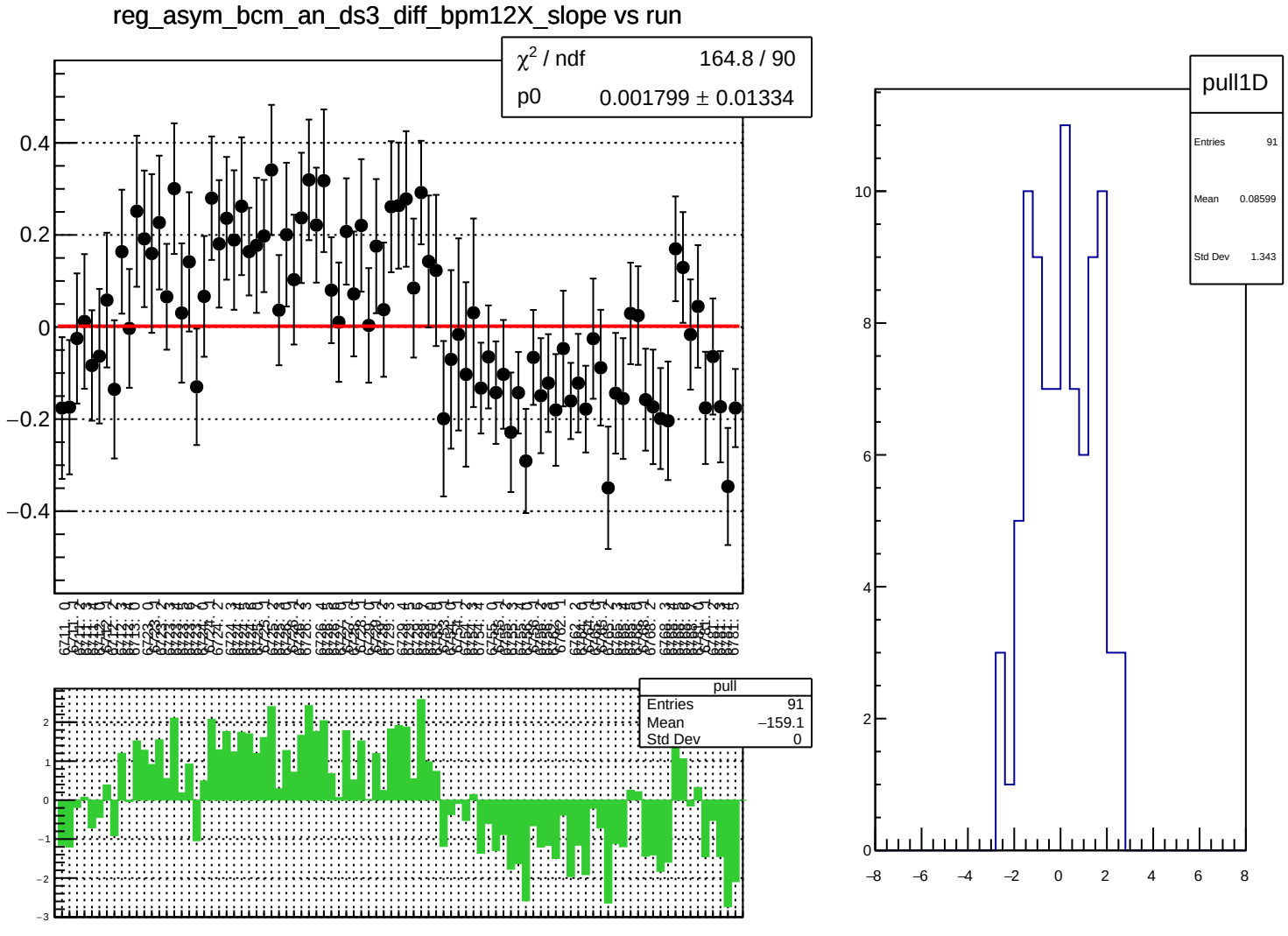

pull1D
Entries 91
Mean 0.2351
Std Dev 1.27

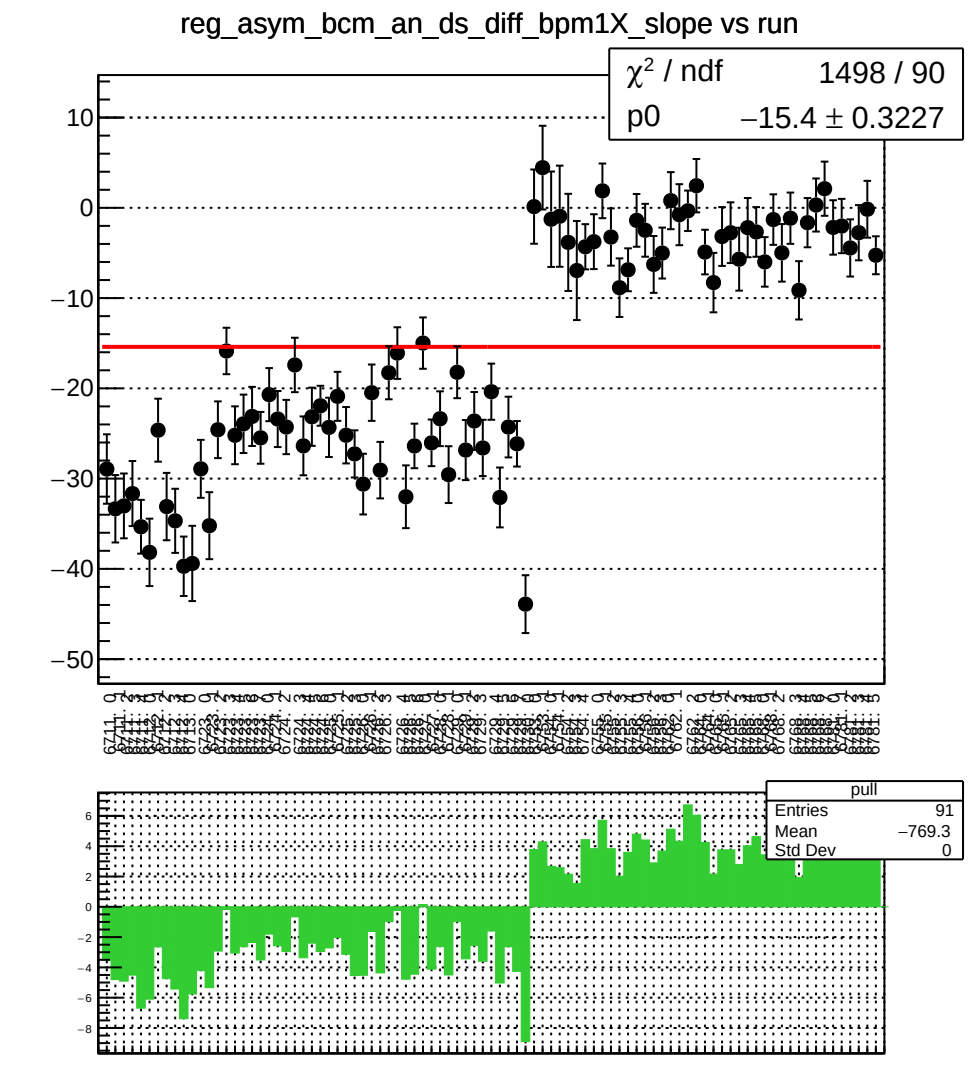

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 1575 / 90
p0 14.95 ± 0.3098
pull
Entries 91
Mean −401.9
Std Dev 0

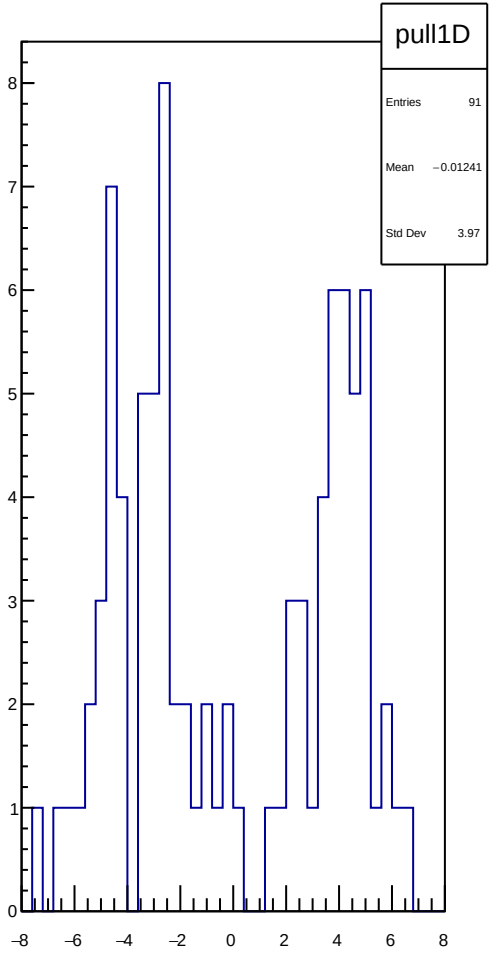

pull1D
Entries 91
Mean 0.1073
Std Dev 4.069

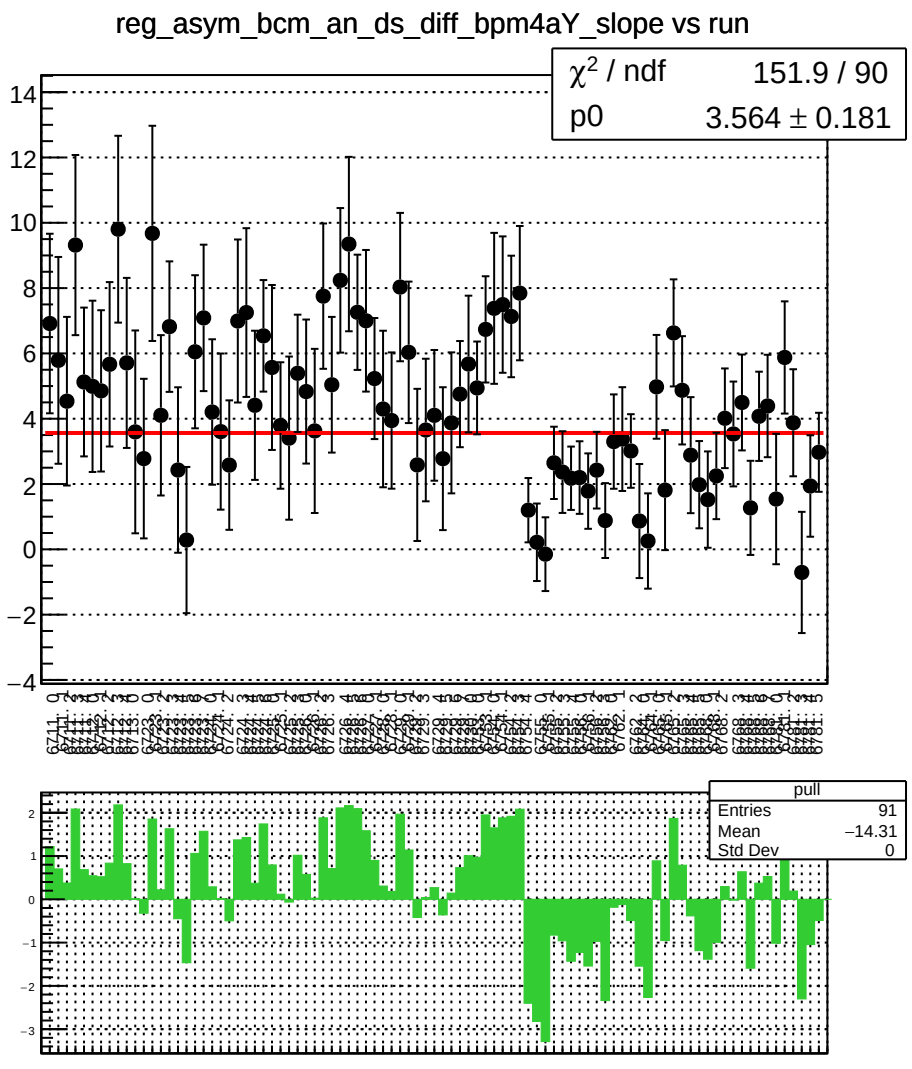

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 174 / 90
p0 −5.724 ± 0.2311
pull
Entries 91
Mean −30.52
Std Dev 0

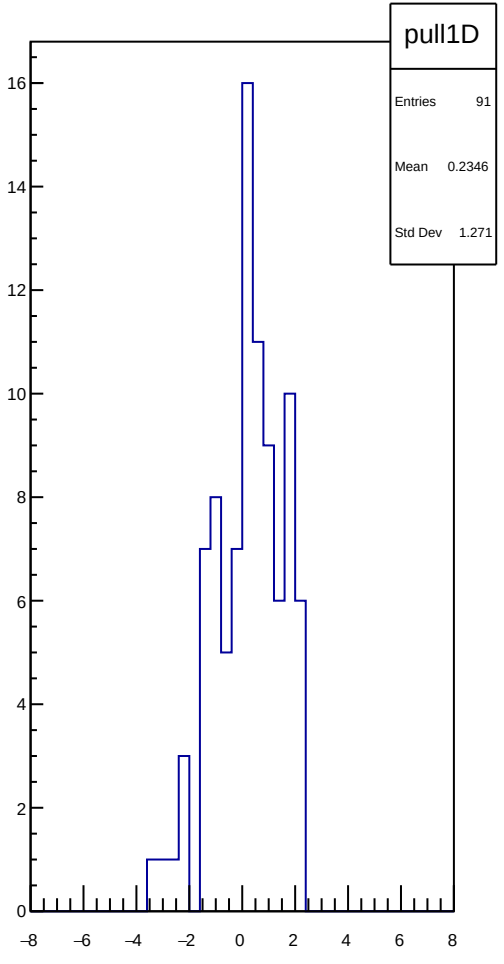

pull1D
Entries 91
Mean −0.2044
Std Dev 1.368

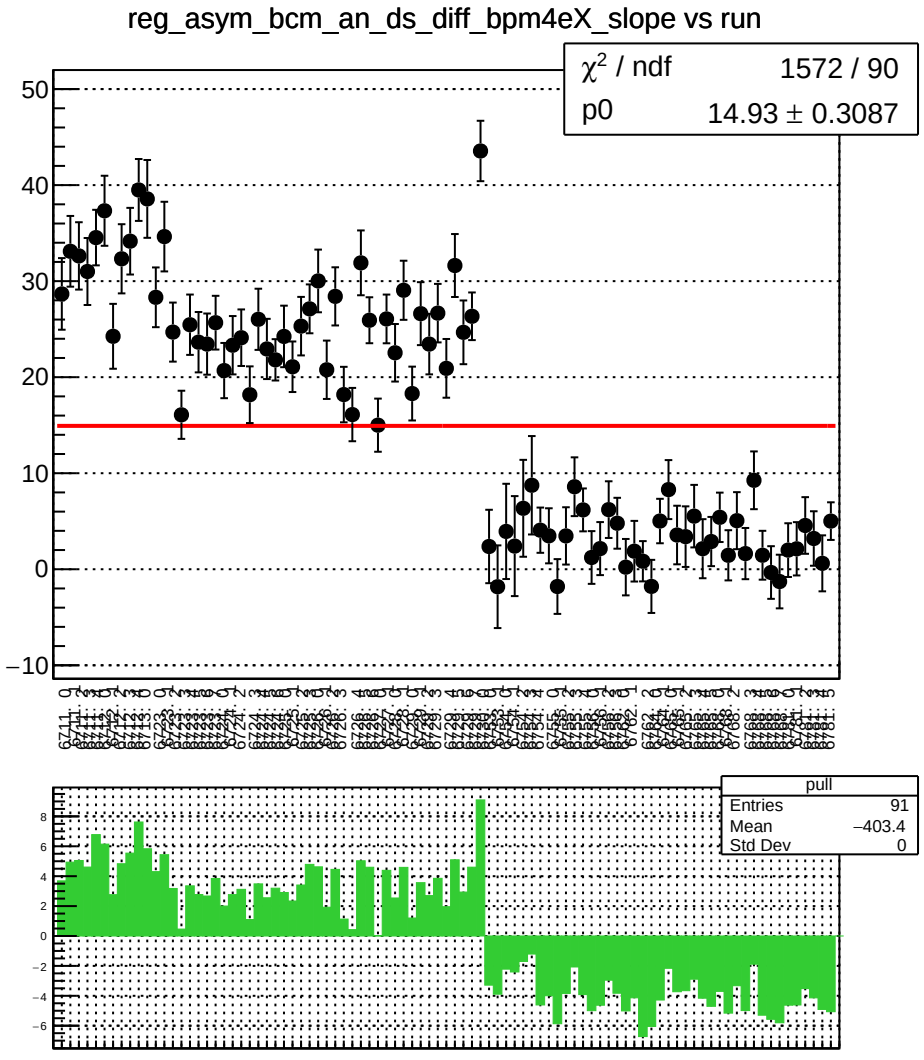

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 164.8 / 90
p0 0.001799 ± 0.01334
pull
Entries 91
Mean −159.1
Std Dev 0
pull1D
Entries 91
Mean 0.08599
Std Dev 1.343

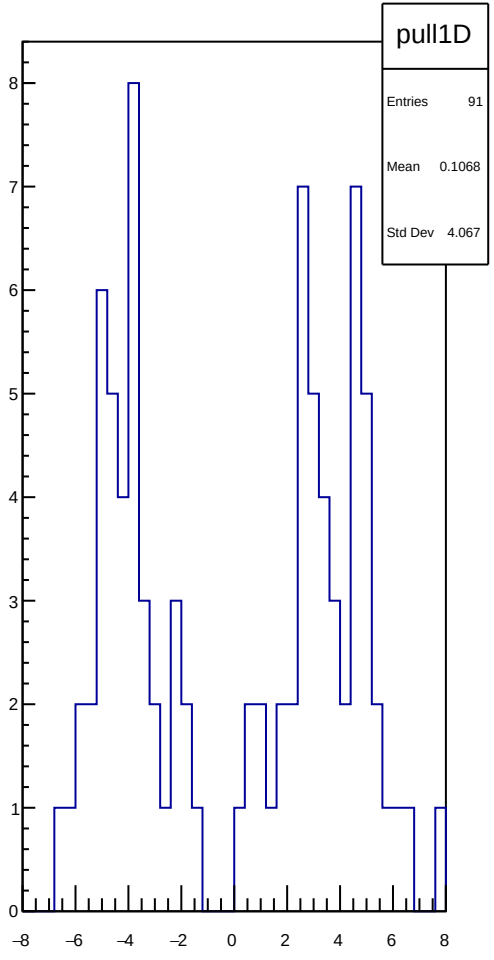

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 1498 / 90
p0 −15.4 ± 0.3227
pull
Entries 91
Mean −769.3
Std Dev 0

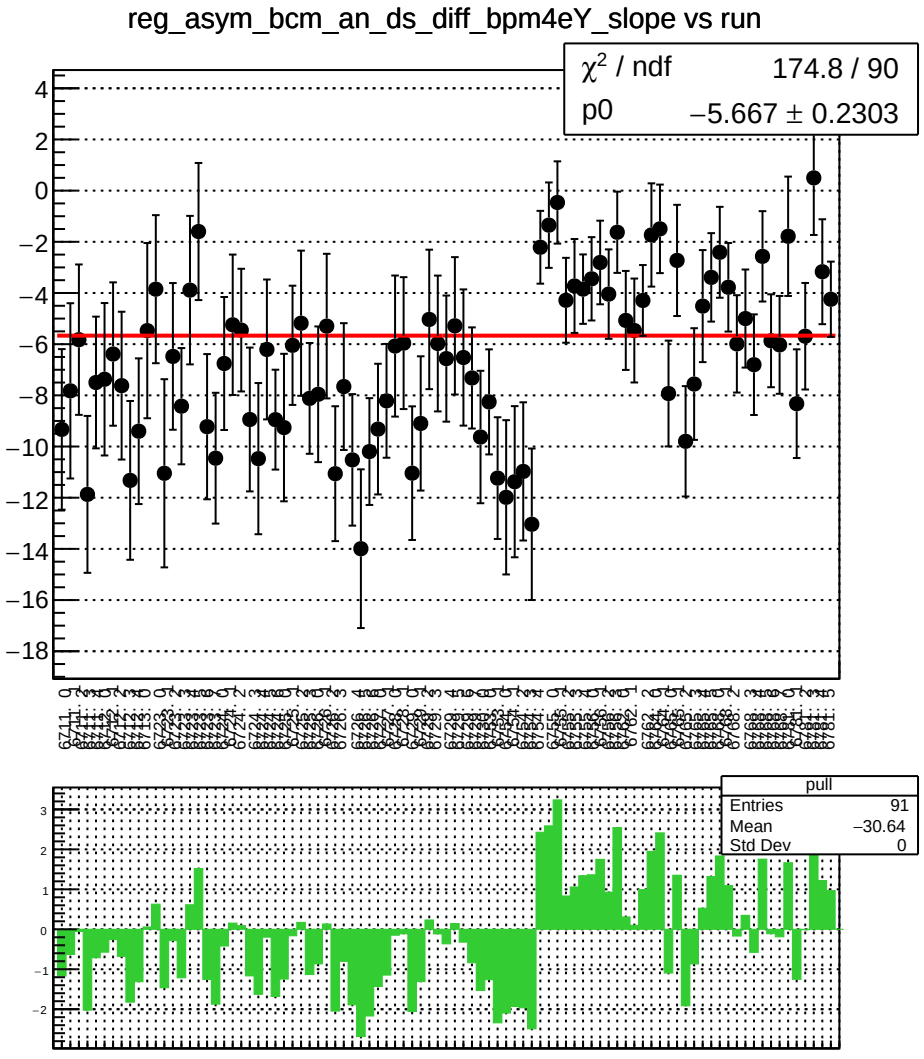

pull1D
Entries 91
Mean −0.01241
Std Dev 3.97

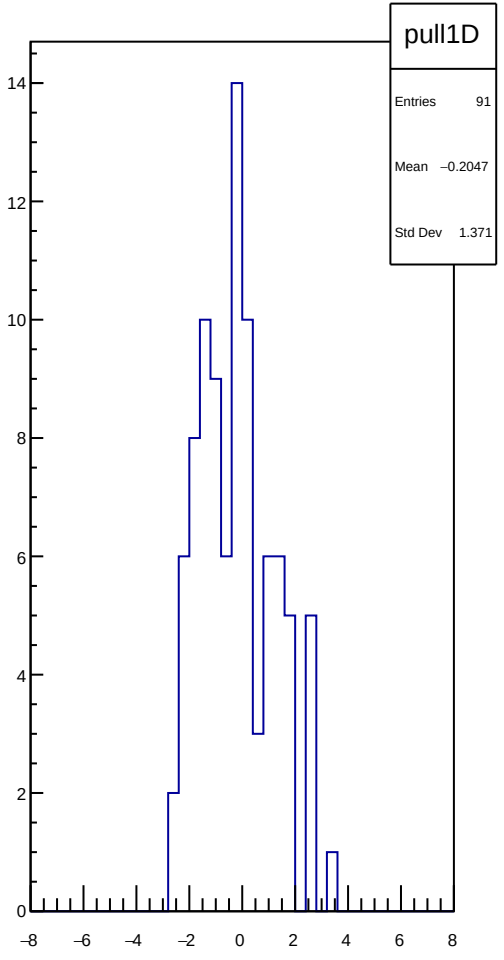

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 151.9 / 90
p0 3.564 ± 0.181
pull
Entries 91
Mean −14.31
Std Dev 0

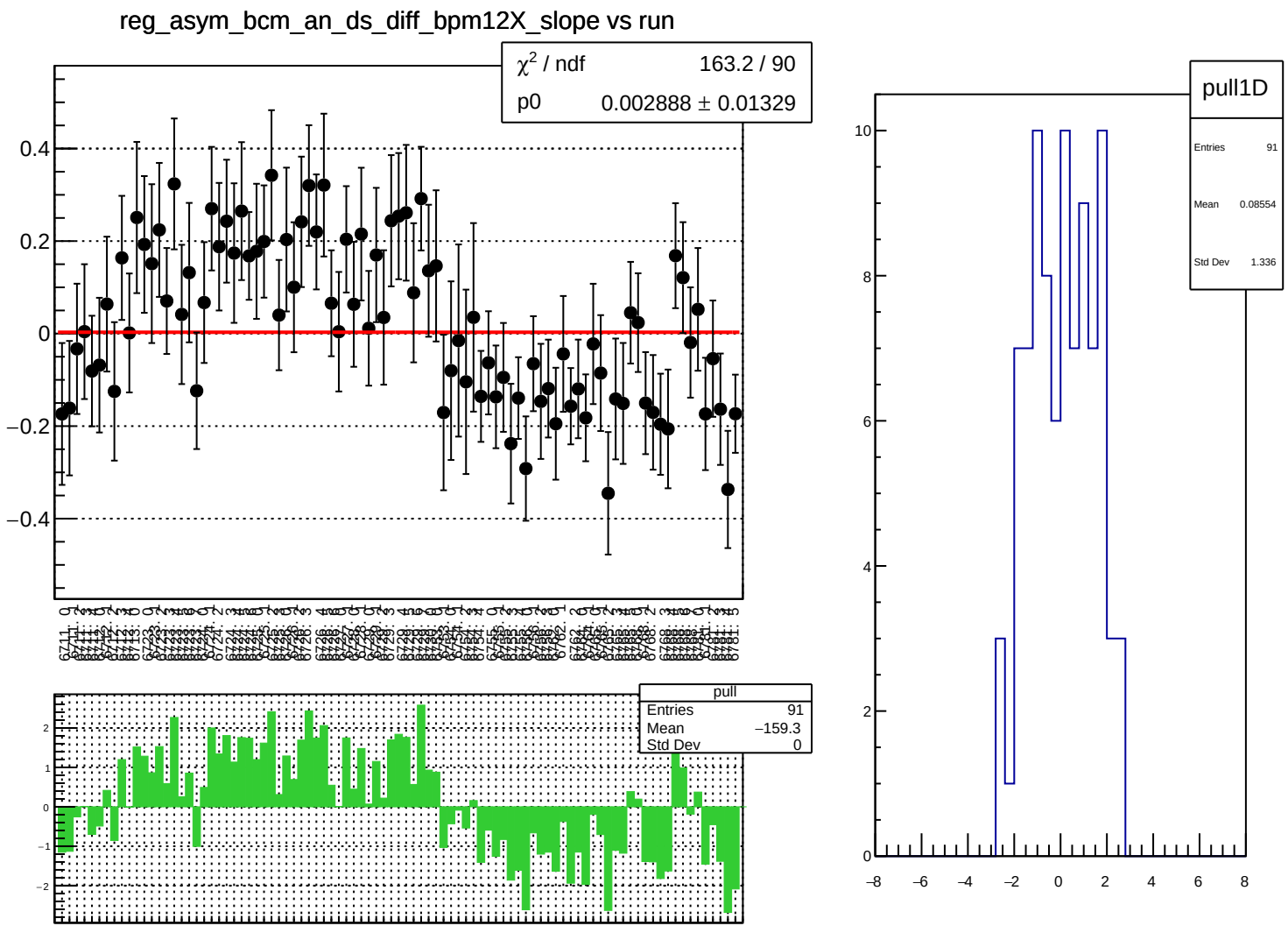

pull1D
Entries 91
Mean 0.2346
Std Dev 1.271

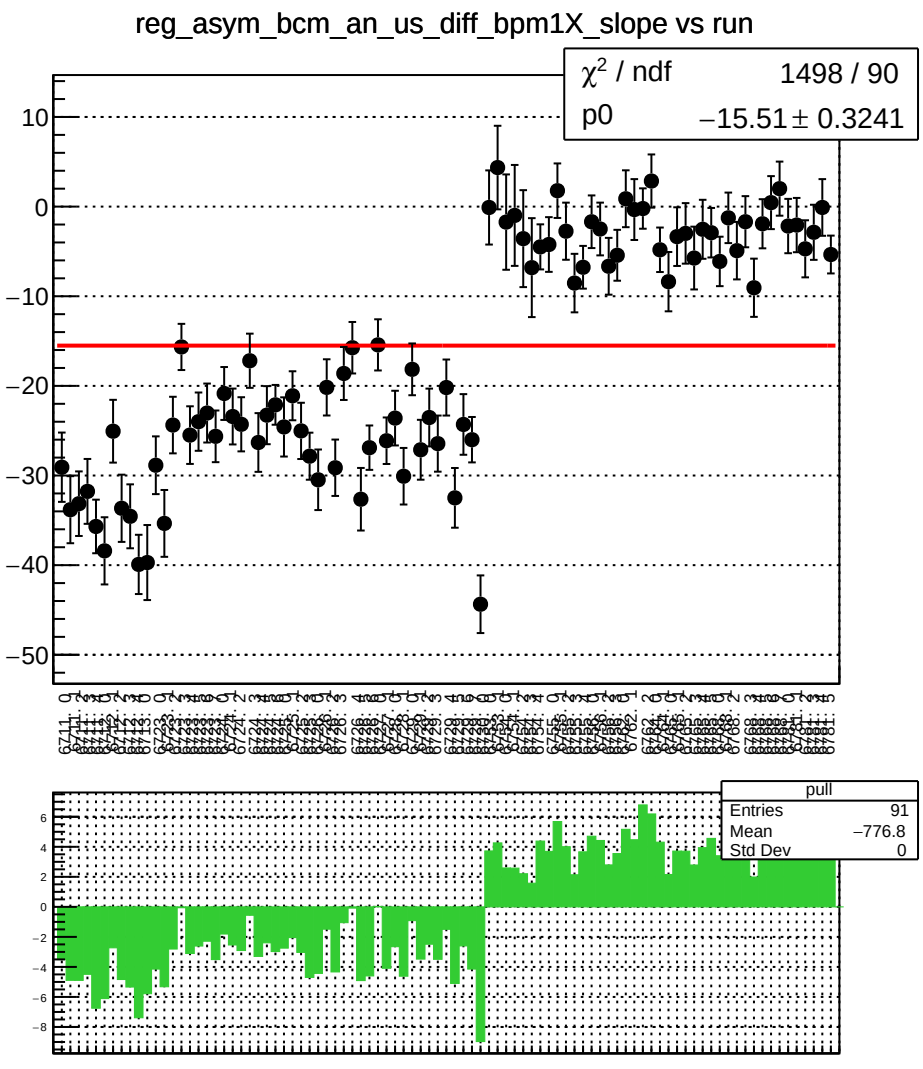

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 1572 / 90
p0 14.93 ± 0.3087
pull
Entries 91
Mean −403.4
Std Dev 0

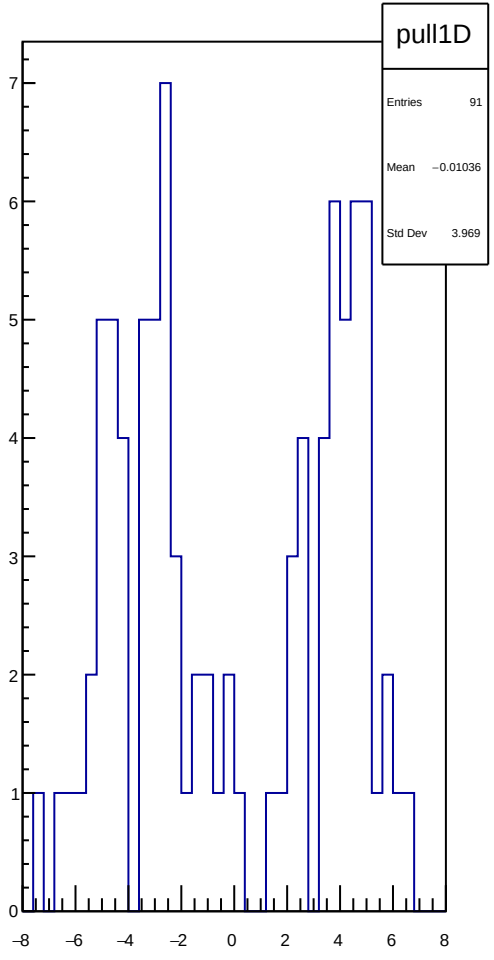

pull1D
Entries 91
Mean 0.1068
Std Dev 4.067

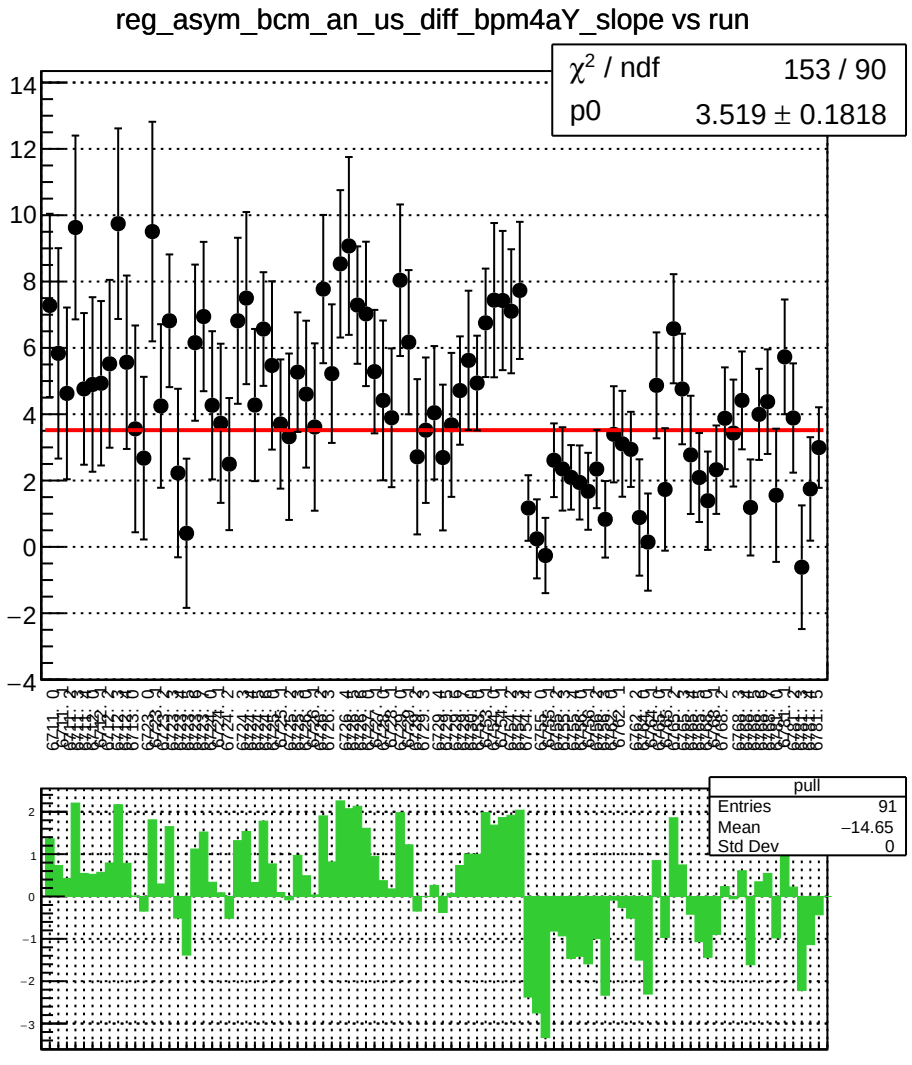

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 174.8 / 90
p0 −5.667 ± 0.2303
pull
Entries 91
Mean −30.64
Std Dev 0

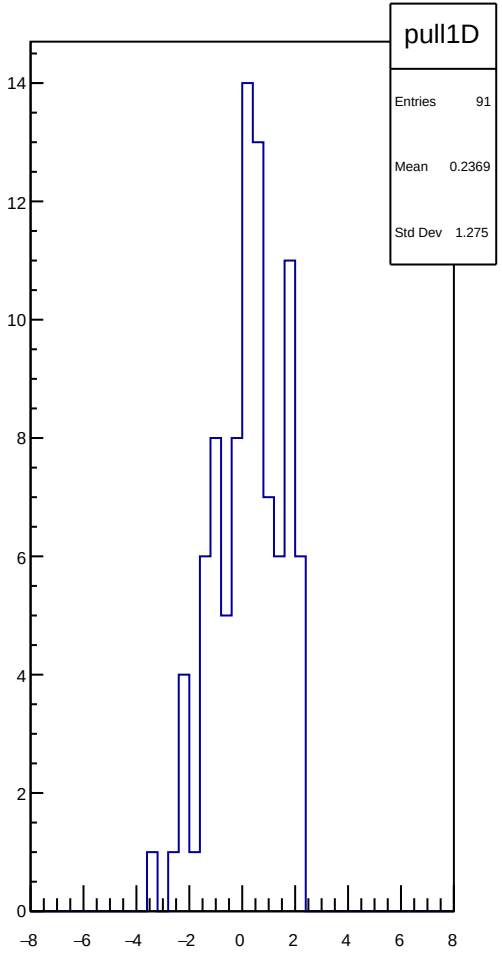

pull1D
Entries 91
Mean −0.2047
Std Dev 1.371

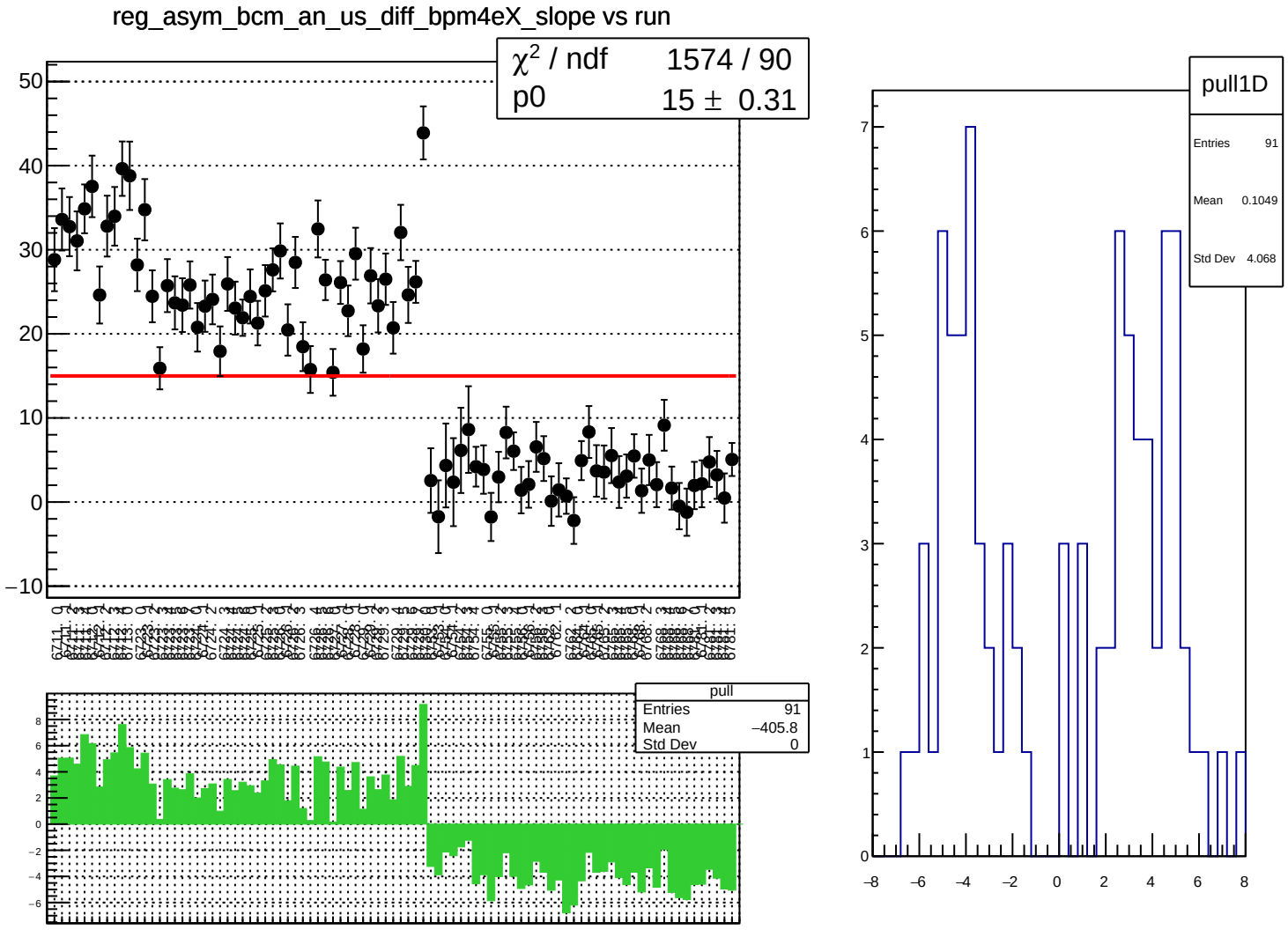

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 163.2 / 90
p0 0.002888 ± 0.01329
0.4
0.2
0
−0.2
−0.4
pull
Entries 91
Mean −159.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.08554
Std Dev 1.336
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

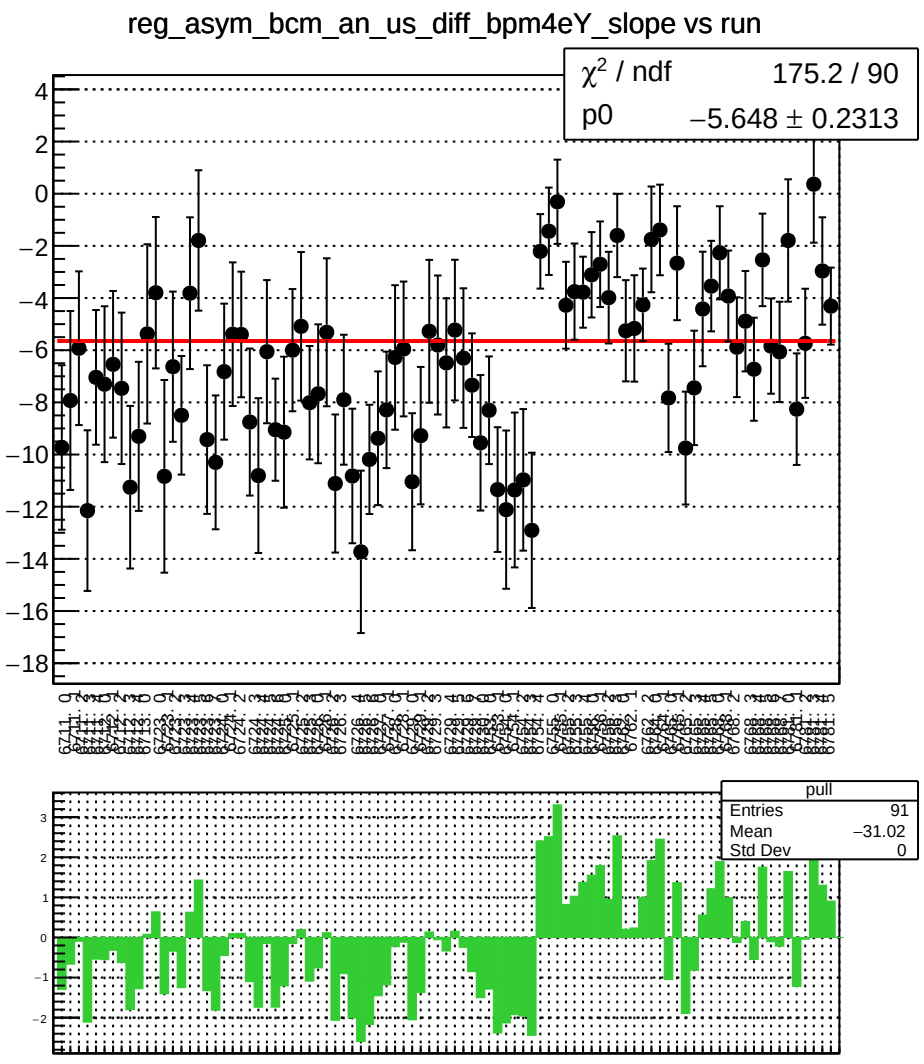

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 1498 / 90
p0 −15.51 ± 0.3241
pull
Entries 91
Mean −776.8
Std Dev 0

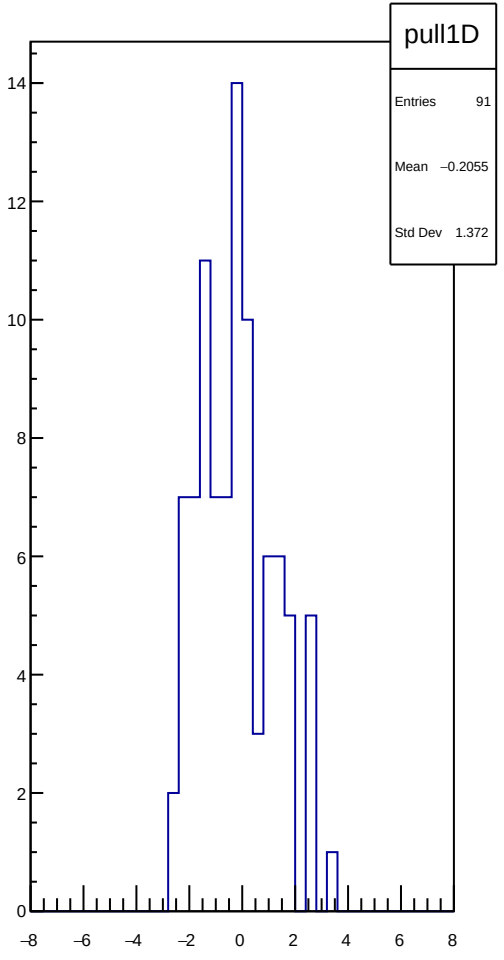

pull1D
Entries 91
Mean −0.01036
Std Dev 3.969

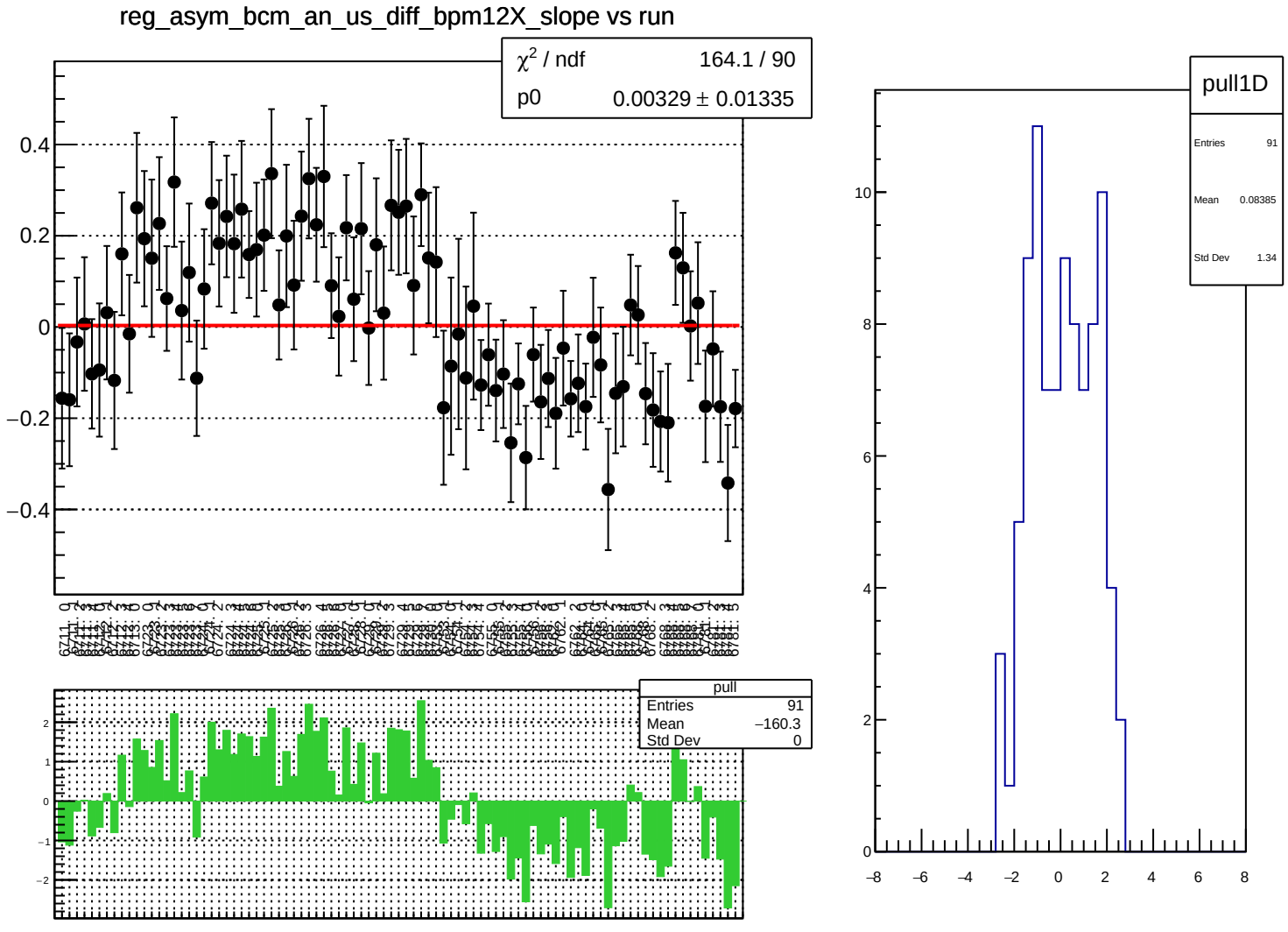

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 153 / 90
p0 3.519 ± 0.1818
pull
Entries 91
Mean −14.65
Std Dev 0

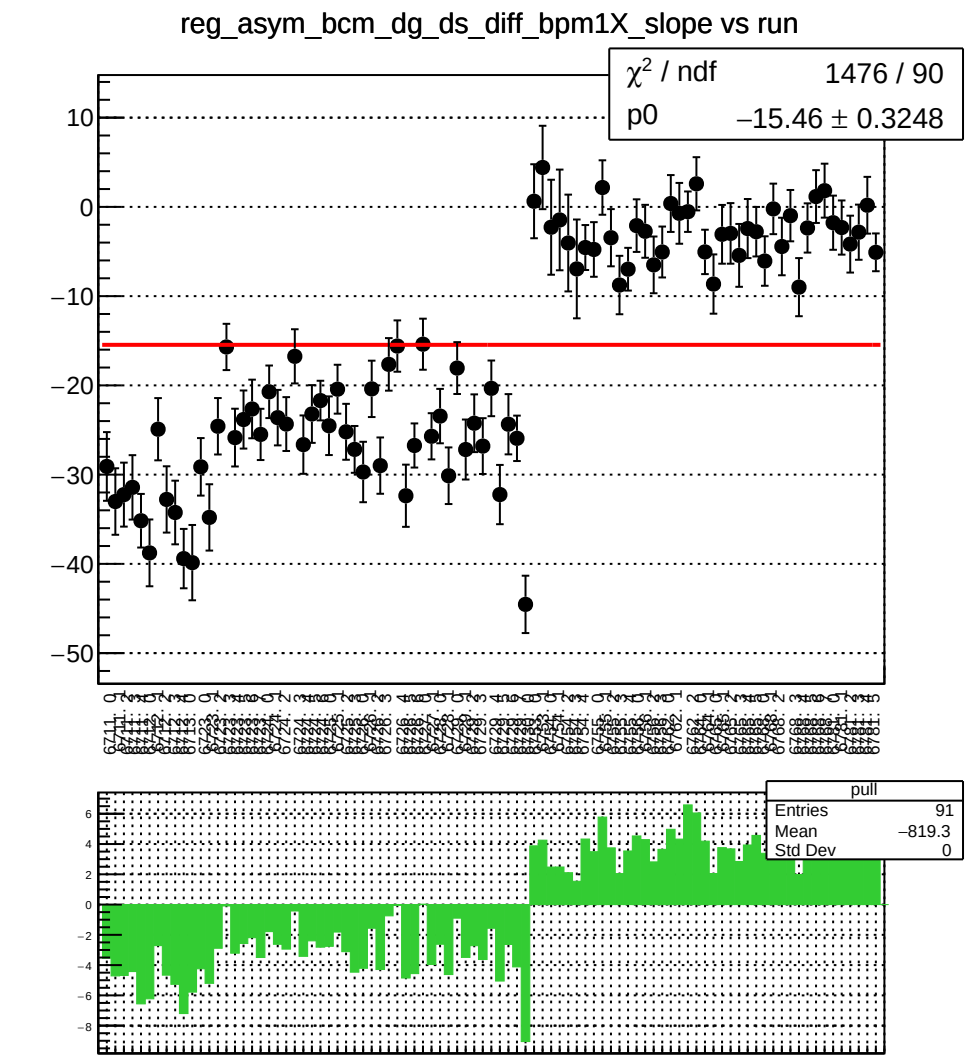

pull1D
Entries 91
Mean 0.2369
Std Dev 1.275

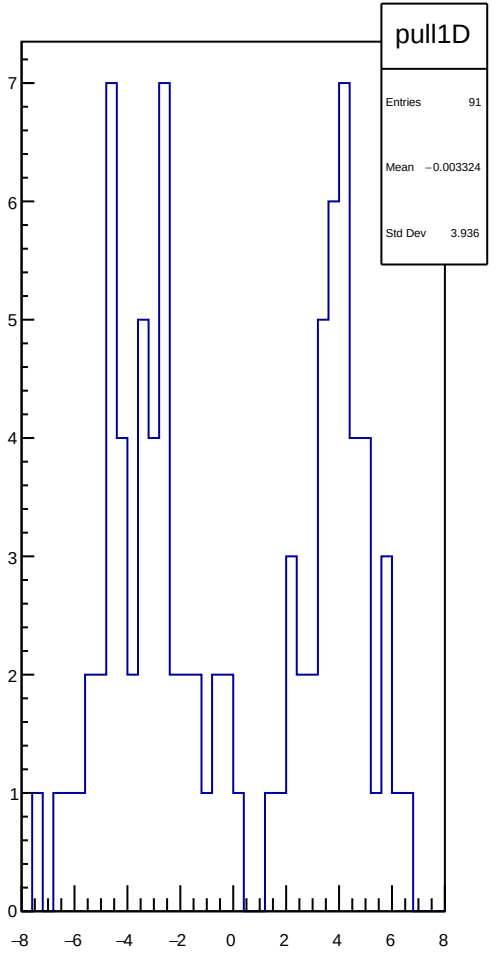

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 1574 / 90
p0 15 ± 0.31
pull
Entries 91
Mean −405.8
Std Dev 0
pull1D
Entries 91
Mean 0.1049
Std Dev 4.068

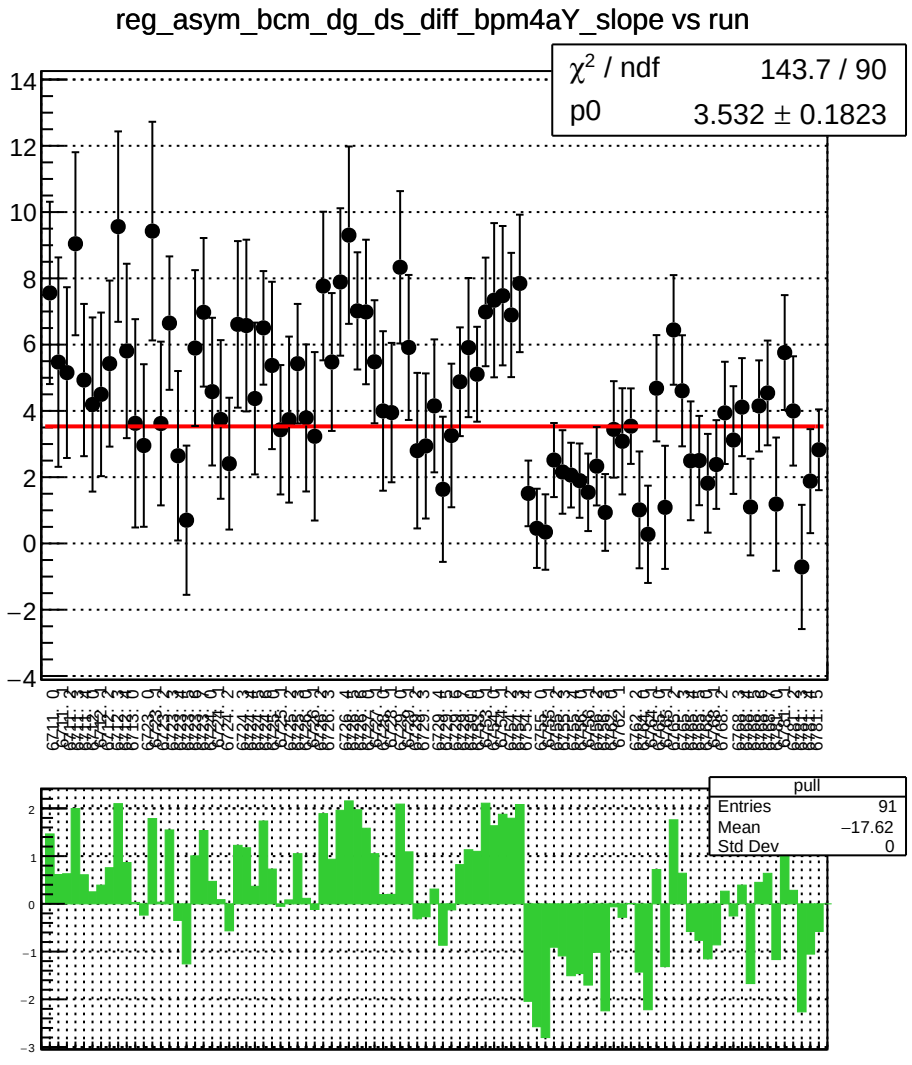

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 175.2 / 90
p0 −5.648 ± 0.2313
pull
Entries 91
Mean −31.02
Std Dev 0

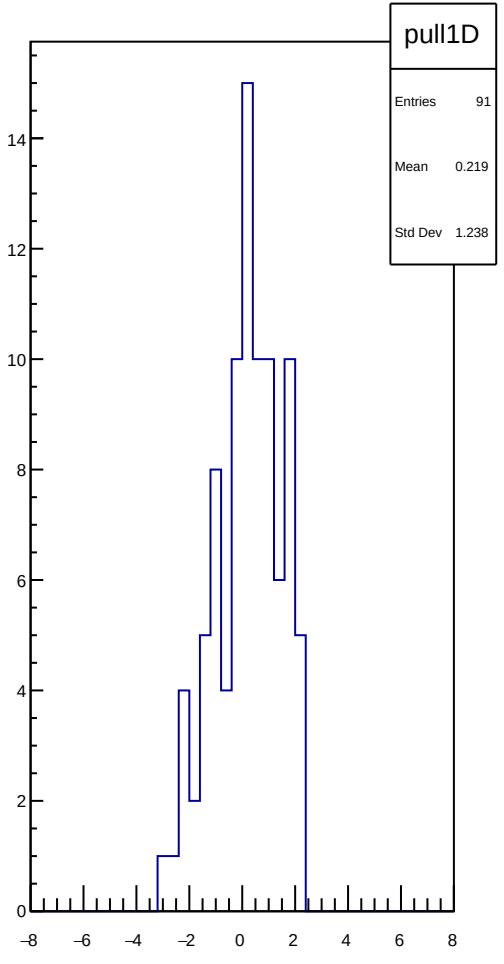

pull1D
Entries 91
Mean −0.2055
Std Dev 1.372

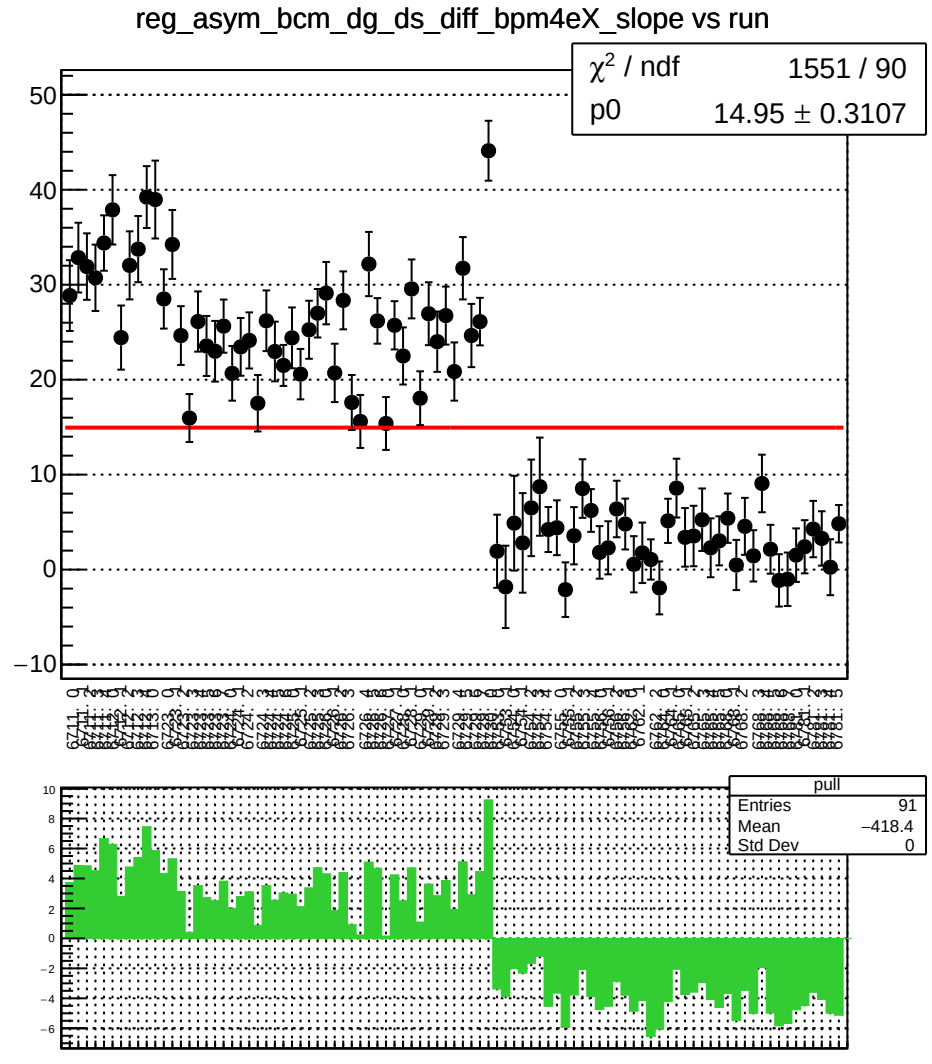

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 164.1 / 90
p0 0.00329 ± 0.01335
0.4
0.2
0
−0.2
−0.4
pull
Entries 91
Mean −160.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.08385
Std Dev 1.34
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

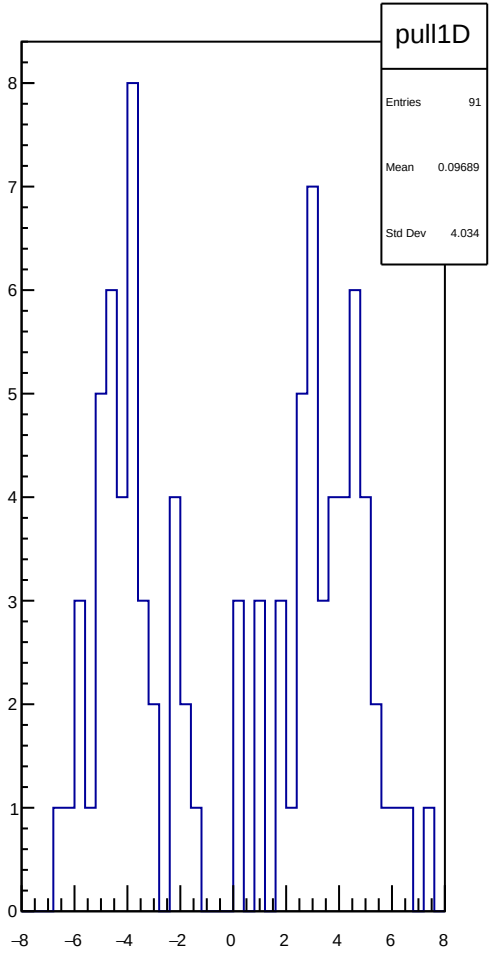

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 1476 / 90
p0 −15.46 ± 0.3248
pull
Entries 91
Mean −819.3
Std Dev 0

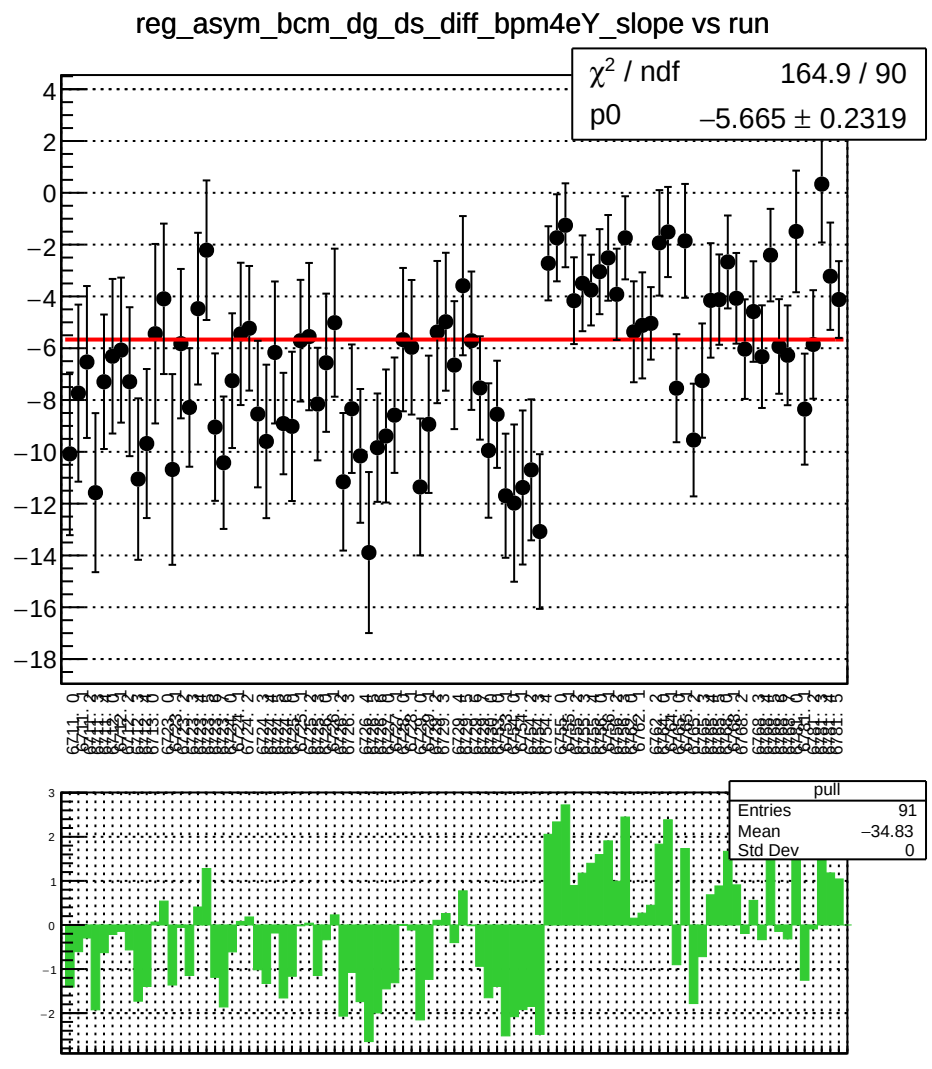

pull1D
Entries 91
Mean −0.003324
Std Dev 3.936

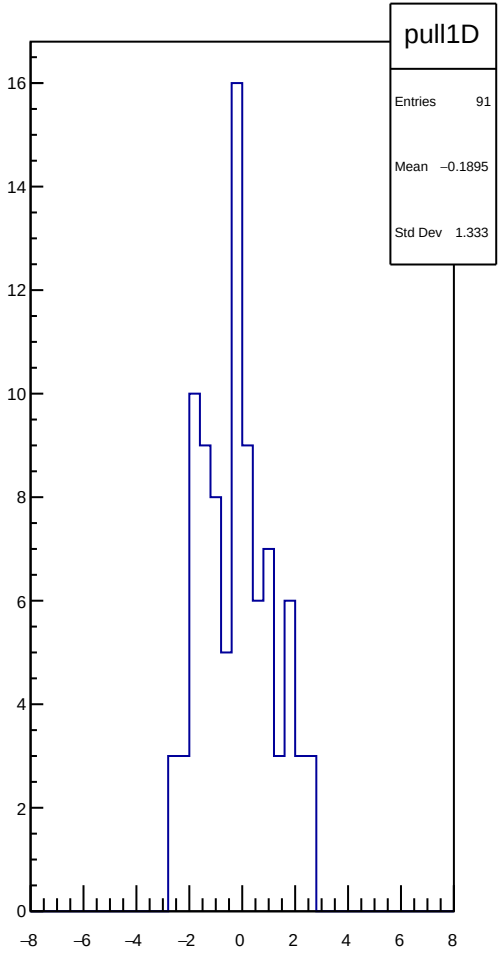

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 143.7 / 90
p0 3.532 ± 0.1823
pull
Entries 91
Mean −17.62
Std Dev 0

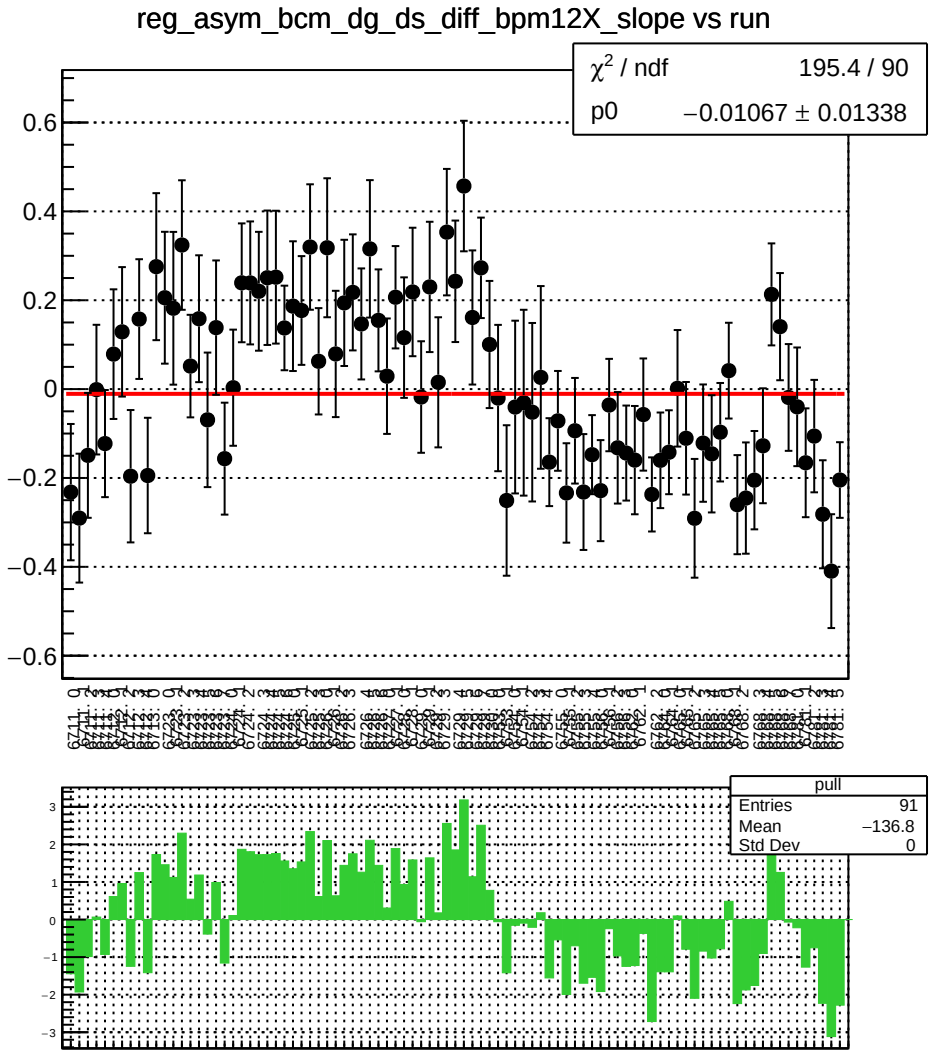

pull1D
Entries 91
Mean 0.219
Std Dev 1.238

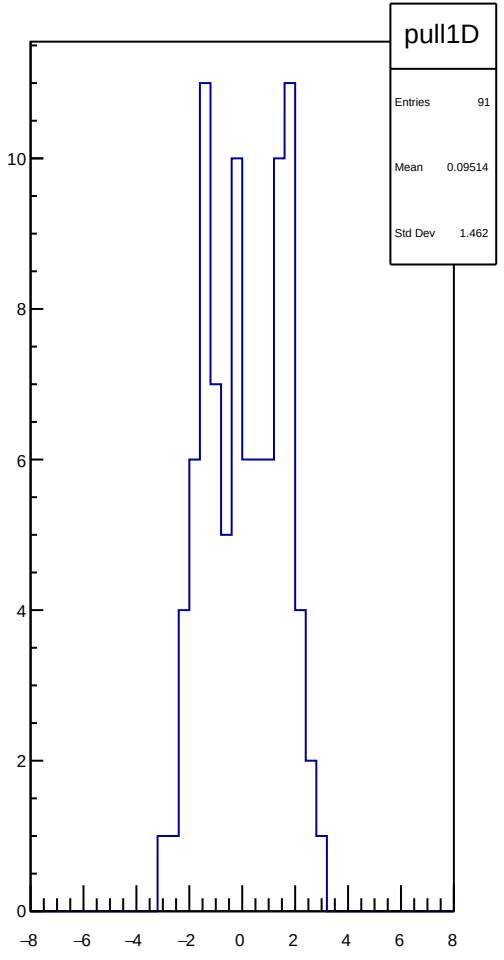

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 1551 / 90
p0 14.95 ± 0.3107
pull
Entries 91
Mean −418.4
Std Dev 0

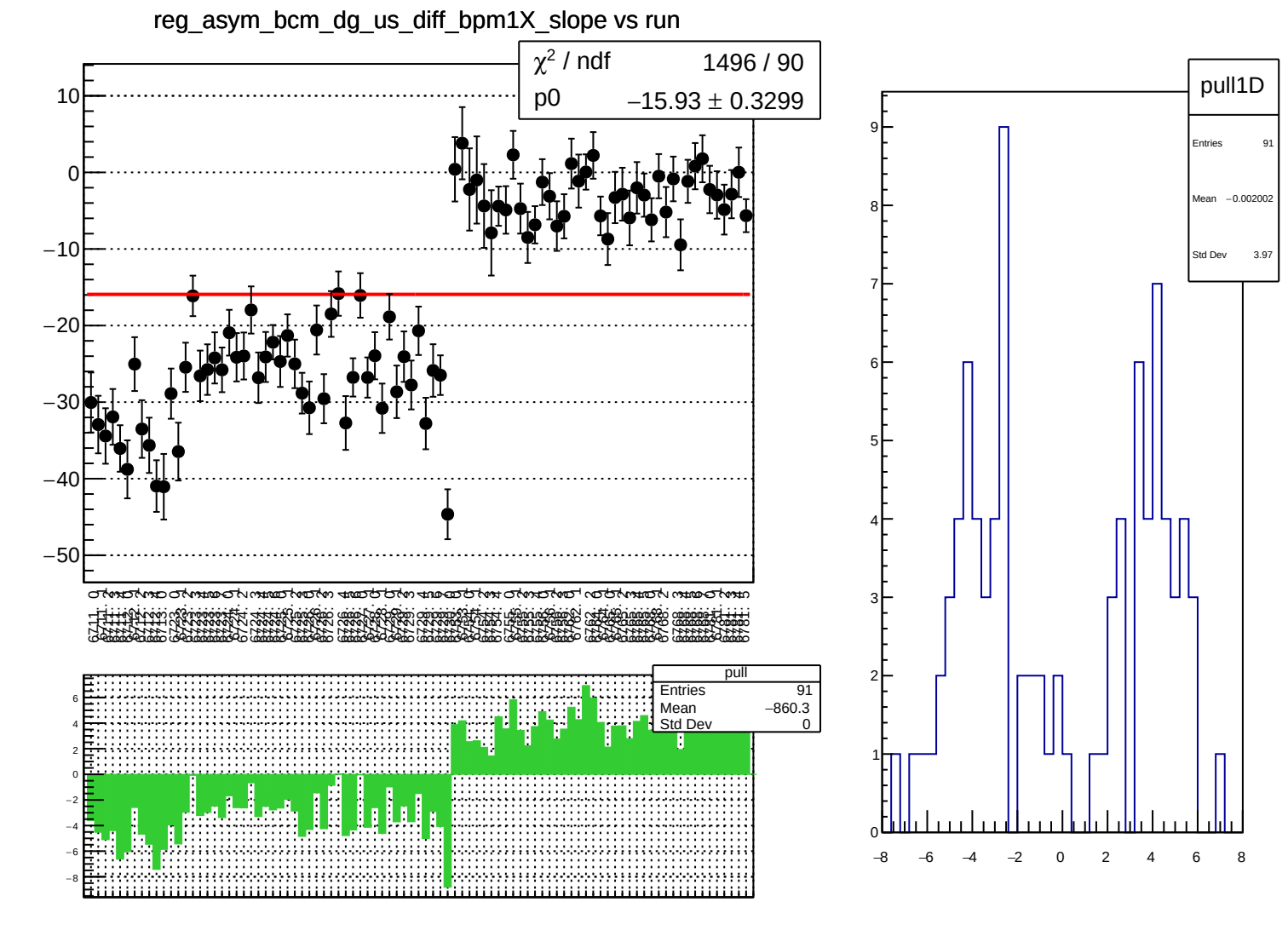

pull1D
Entries 91
Mean 0.09689
Std Dev 4.034

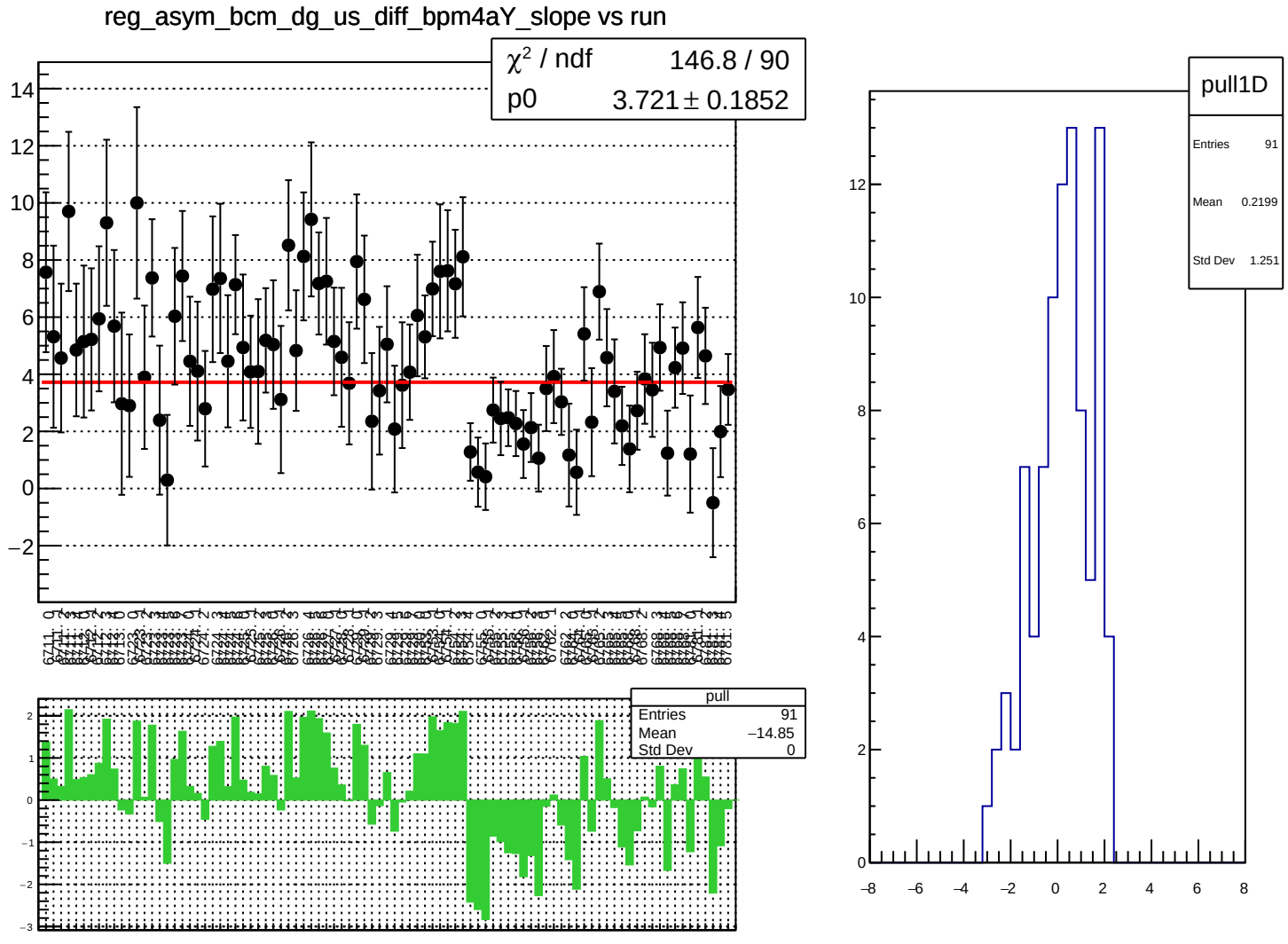

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 164.9 / 90
p0 −5.665 ± 0.2319
pull
Entries 91
Mean −34.83
Std Dev 0

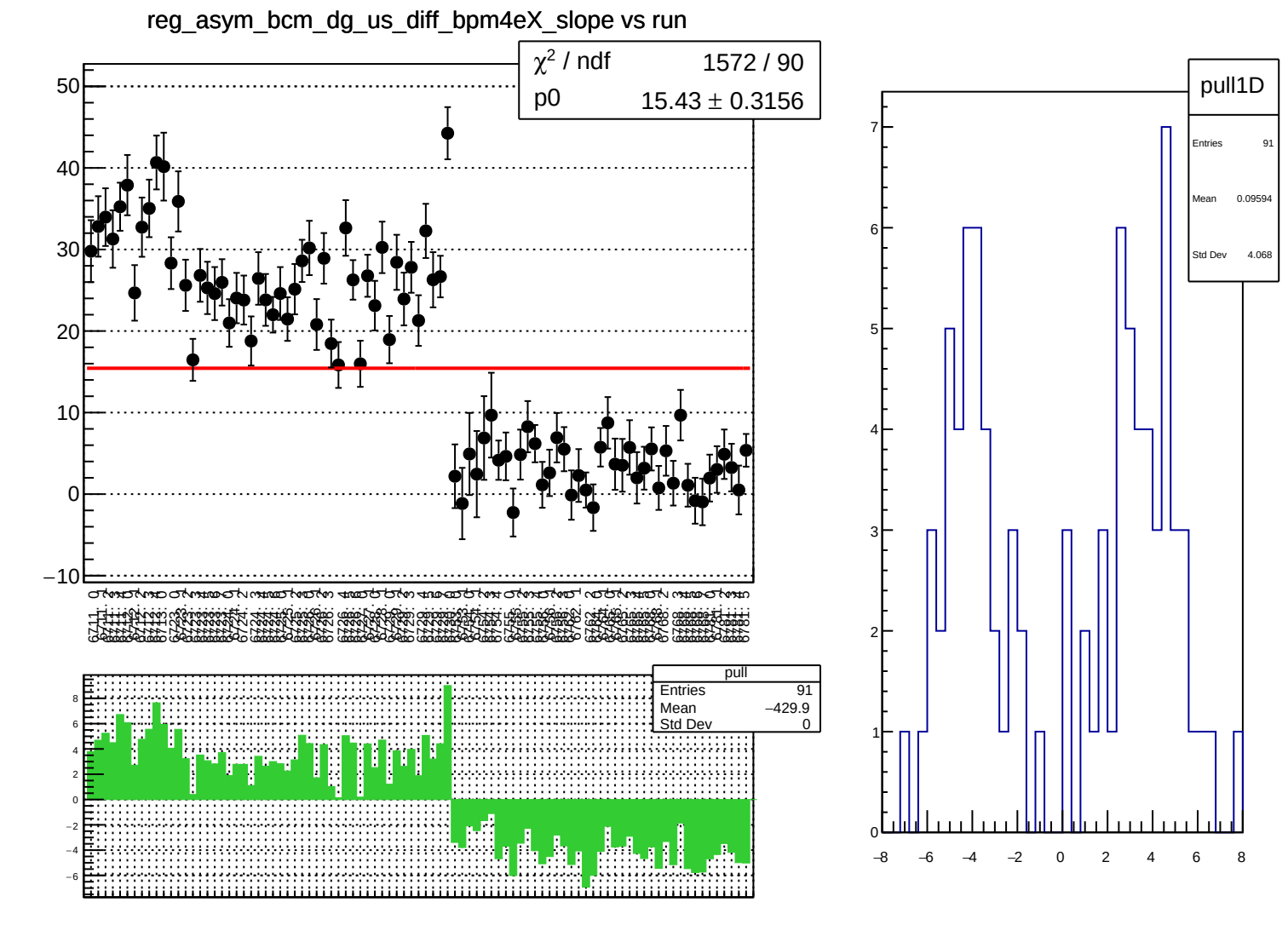

pull1D
Entries 91
Mean −0.1895
Std Dev 1.333

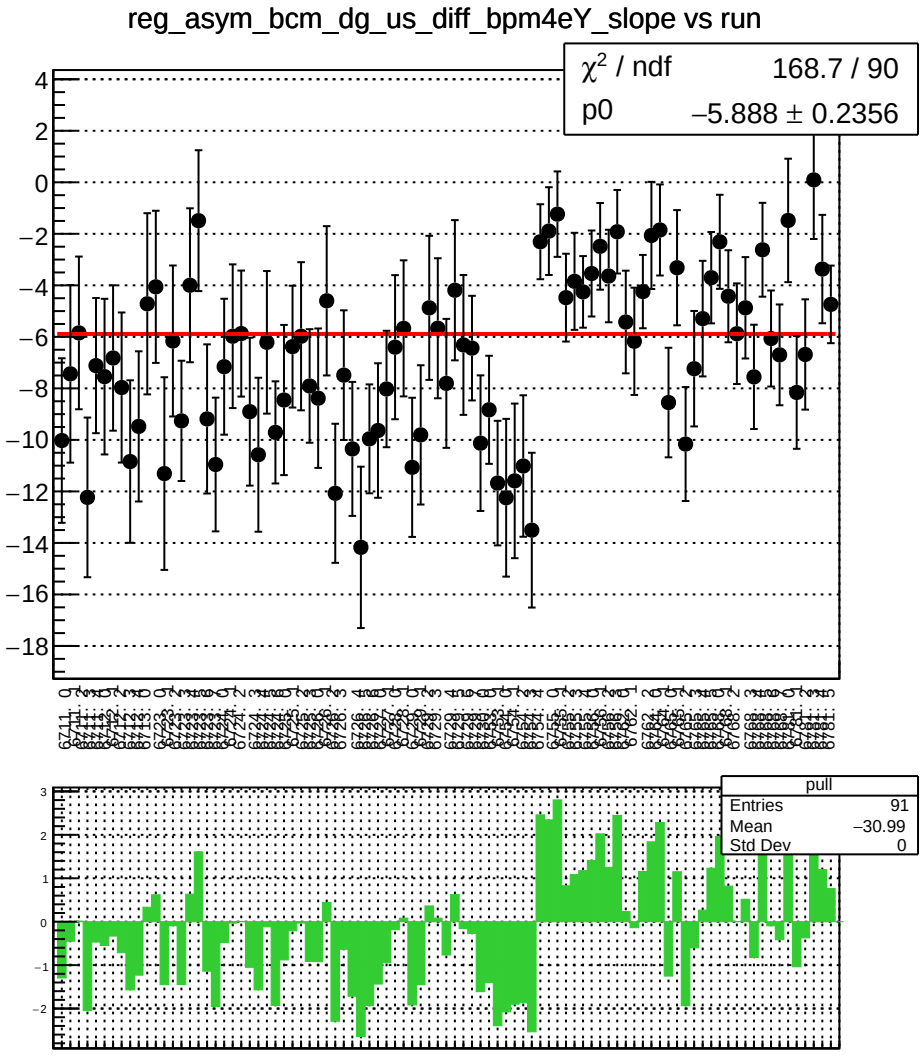

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 195.4 / 90
p0 −0.01067 ± 0.01338
pull
Entries 91
Mean −136.8
Std Dev 0

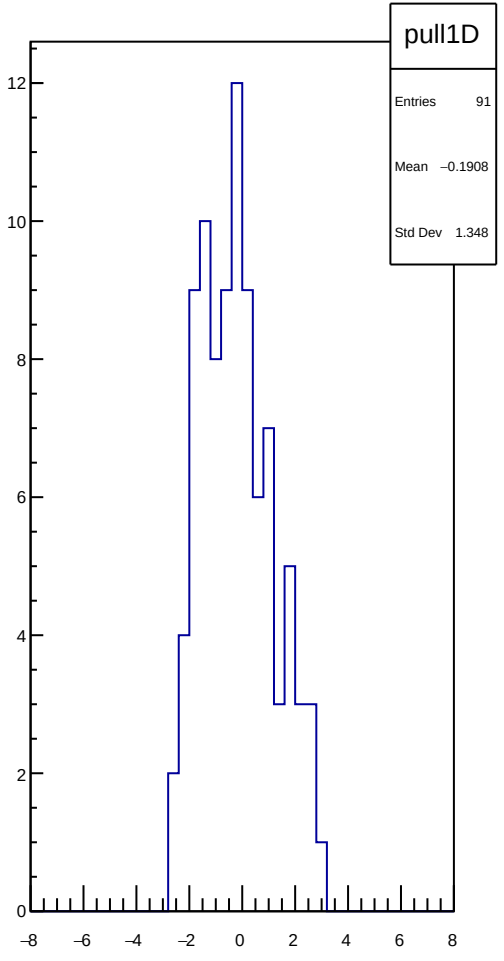

pull1D
Entries 91
Mean 0.09514
Std Dev 1.462

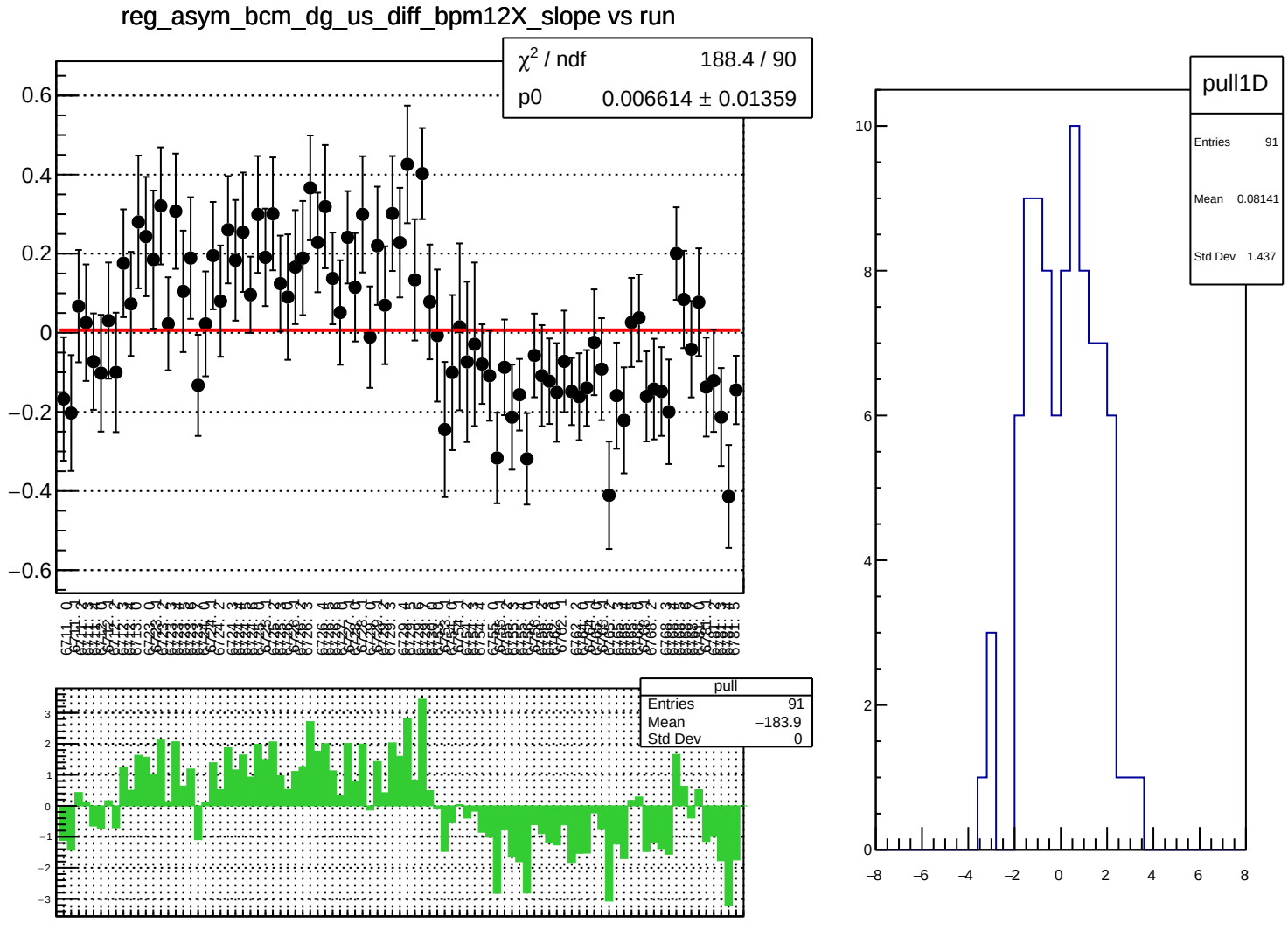

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 1496 / 90
p0 −15.93 ± 0.3299
pull
Entries 91
Mean −860.3
Std Dev 0
pull1D
Entries 91
Mean −0.002002
Std Dev 3.97

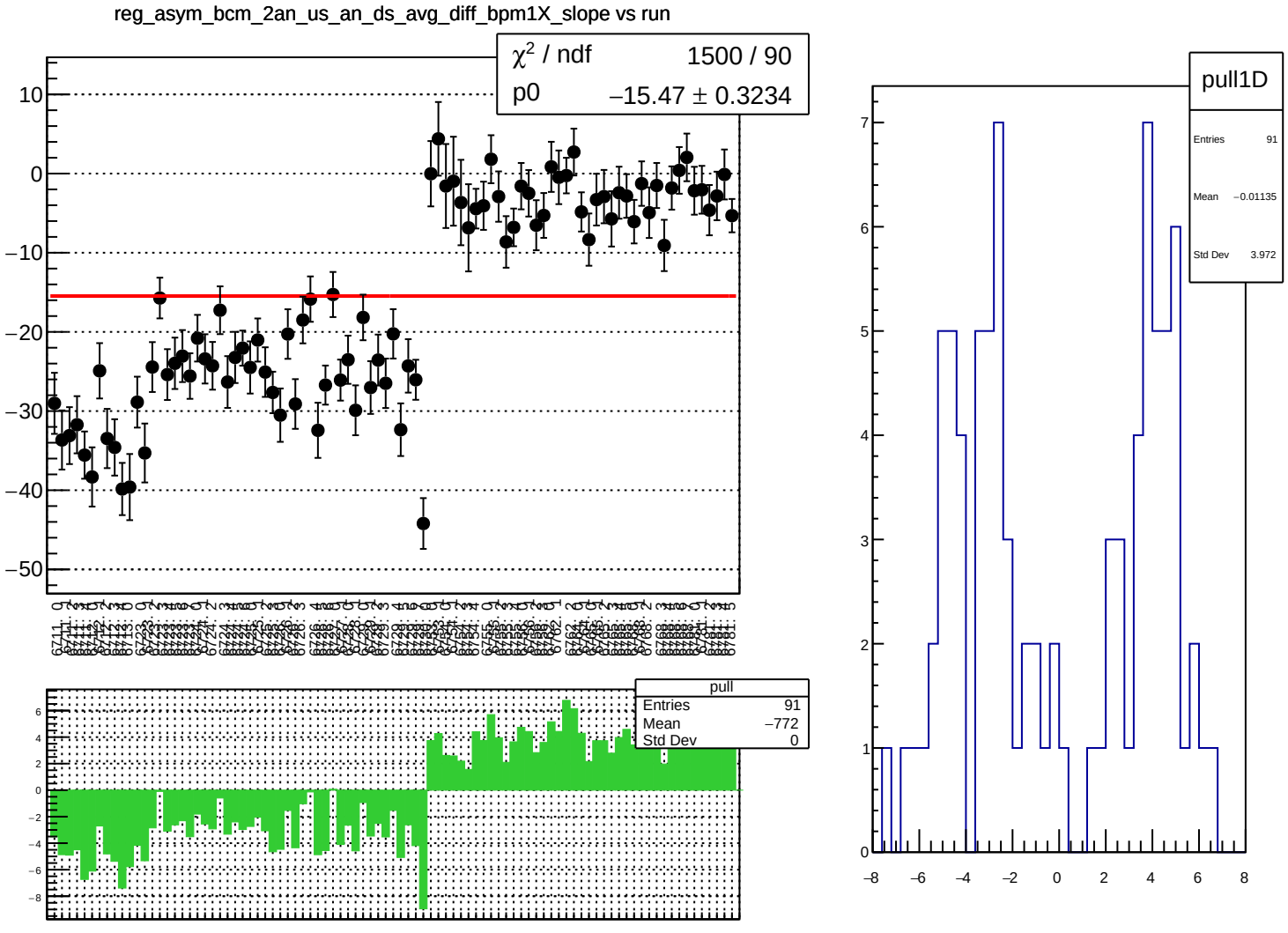

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 146.8 / 90
p0 3.721 ± 0.1852
pull
Entries 91
Mean −14.85
Std Dev 0
pull1D
Entries 91
Mean 0.2199
Std Dev 1.251

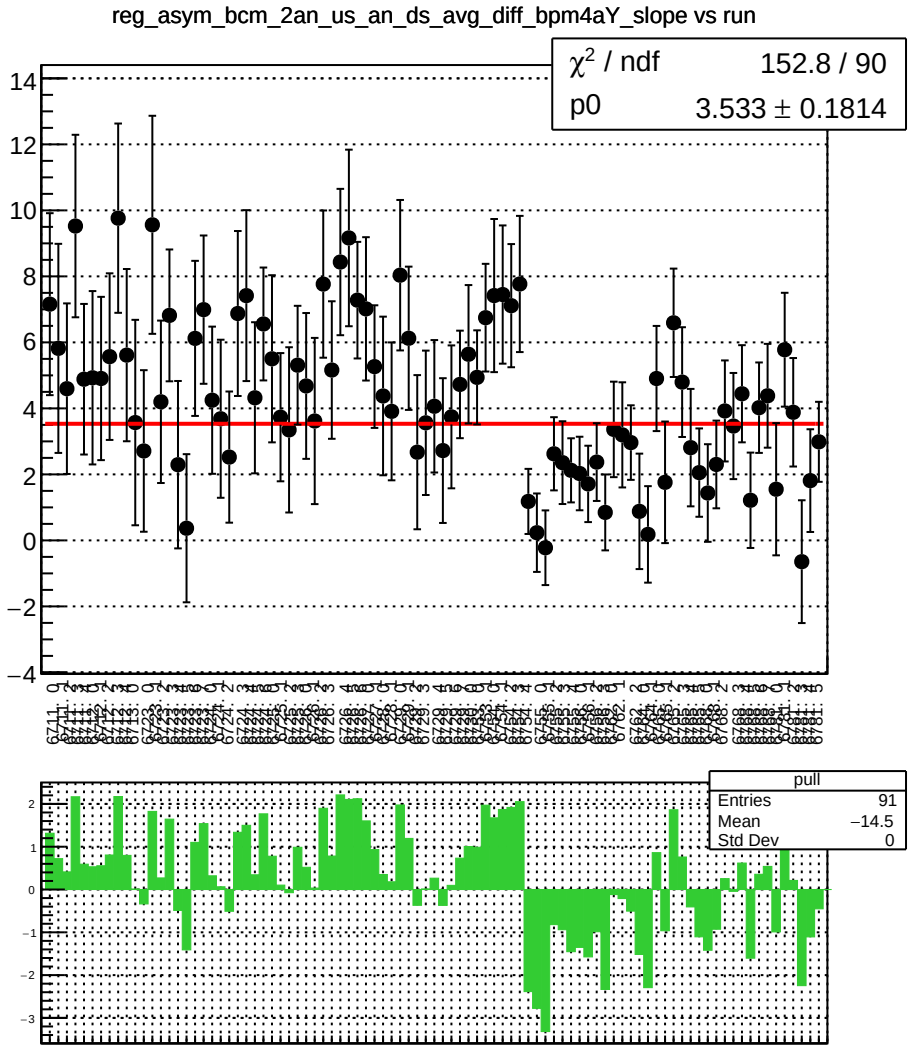

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 1572 / 90
p0 15.43 ± 0.3156
pull
Entries 91
Mean −429.9
Std Dev 0
pull1D
Entries 91
Mean 0.09594
Std Dev 4.068

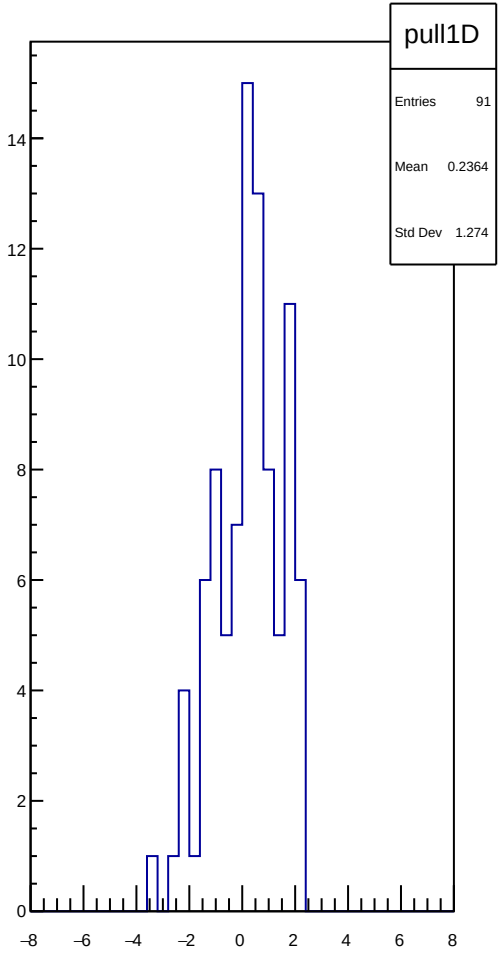

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 168.7 / 90
p0 −5.888 ± 0.2356
pull
Entries 91
Mean −30.99
Std Dev 0

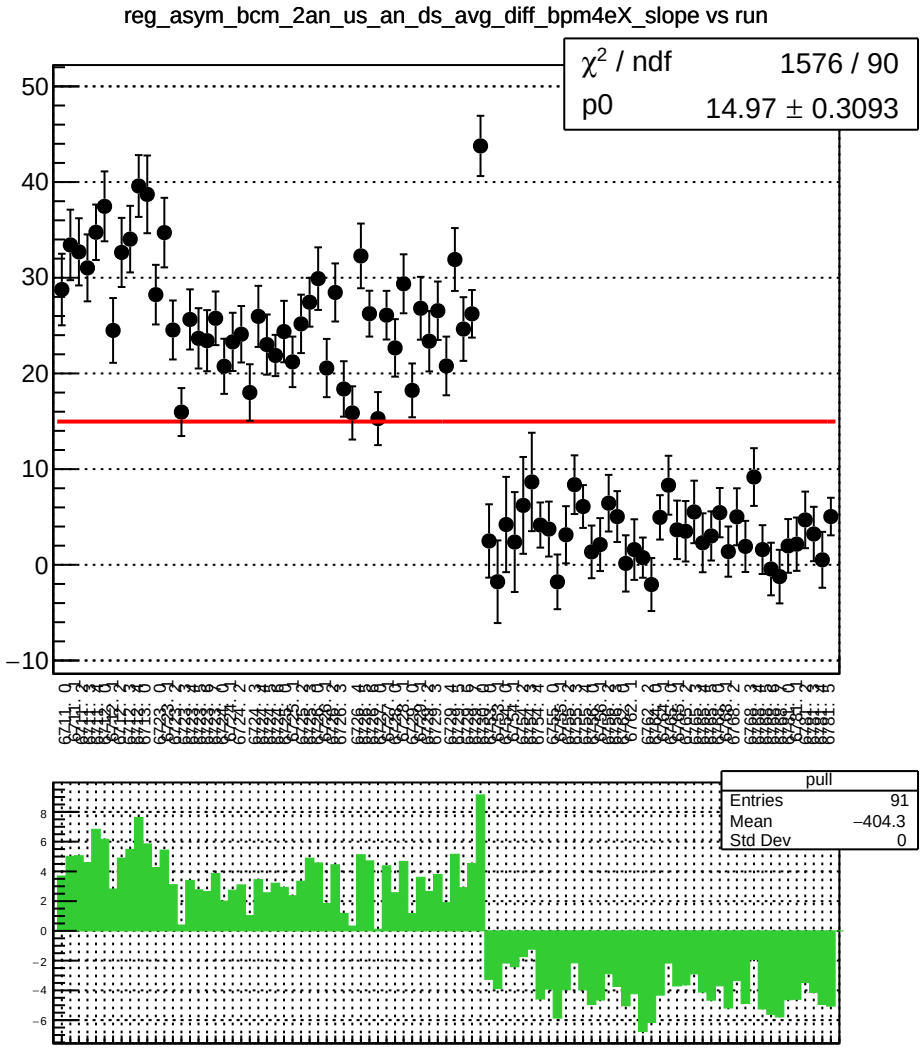

pull1D
Entries 91
Mean −0.1908
Std Dev 1.348

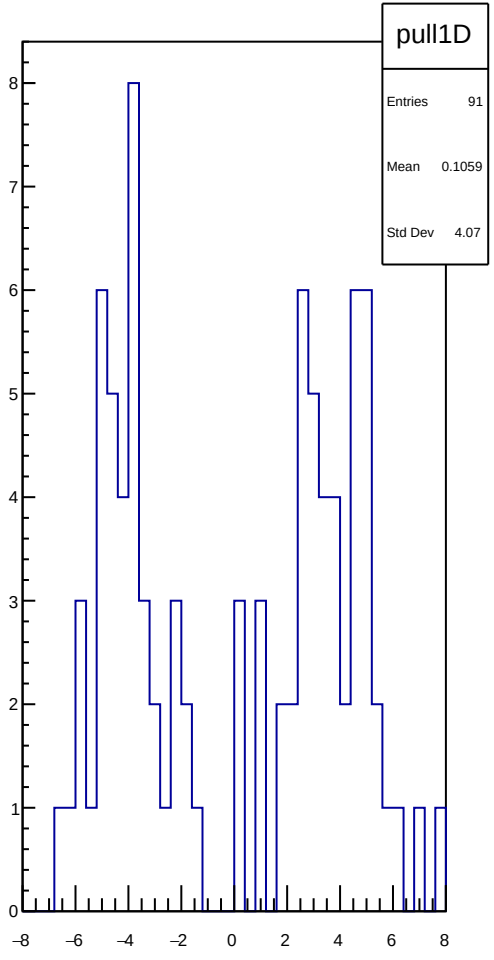

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 188.4 / 90
p0 0.006614 ± 0.01359
pull
Entries 91
Mean −183.9
Std Dev 0
pull1D
Entries 91
Mean 0.08141
Std Dev 1.437

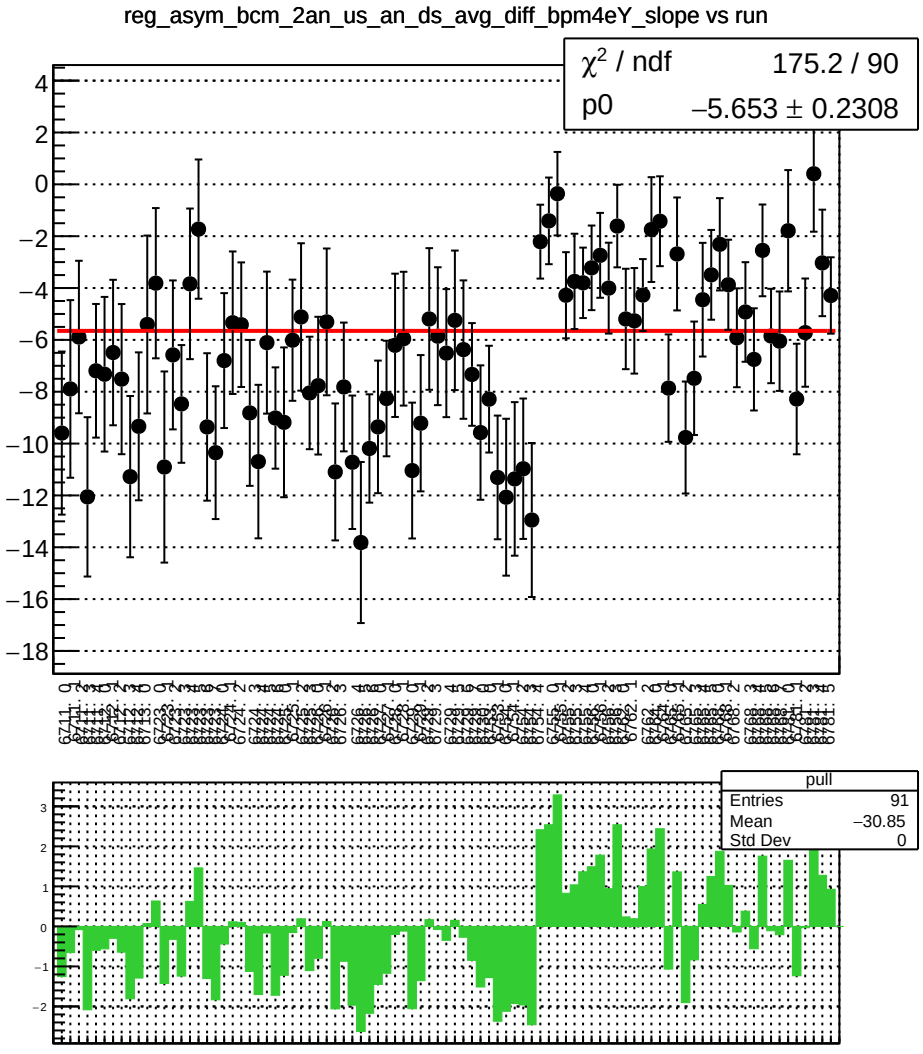

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 1500 / 90
p0 −15.47 ± 0.3234
pull
Entries 91
Mean −772
Std Dev 0
pull1D
Entries 91
Mean −0.01135
Std Dev 3.972

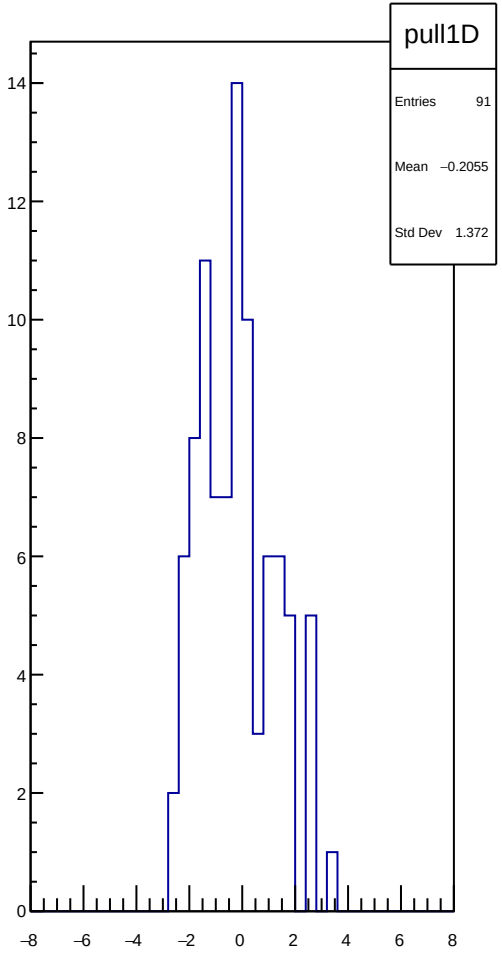

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 152.8 / 90
p0 3.533 ± 0.1814
pull
Entries 91
Mean −14.5
Std Dev 0

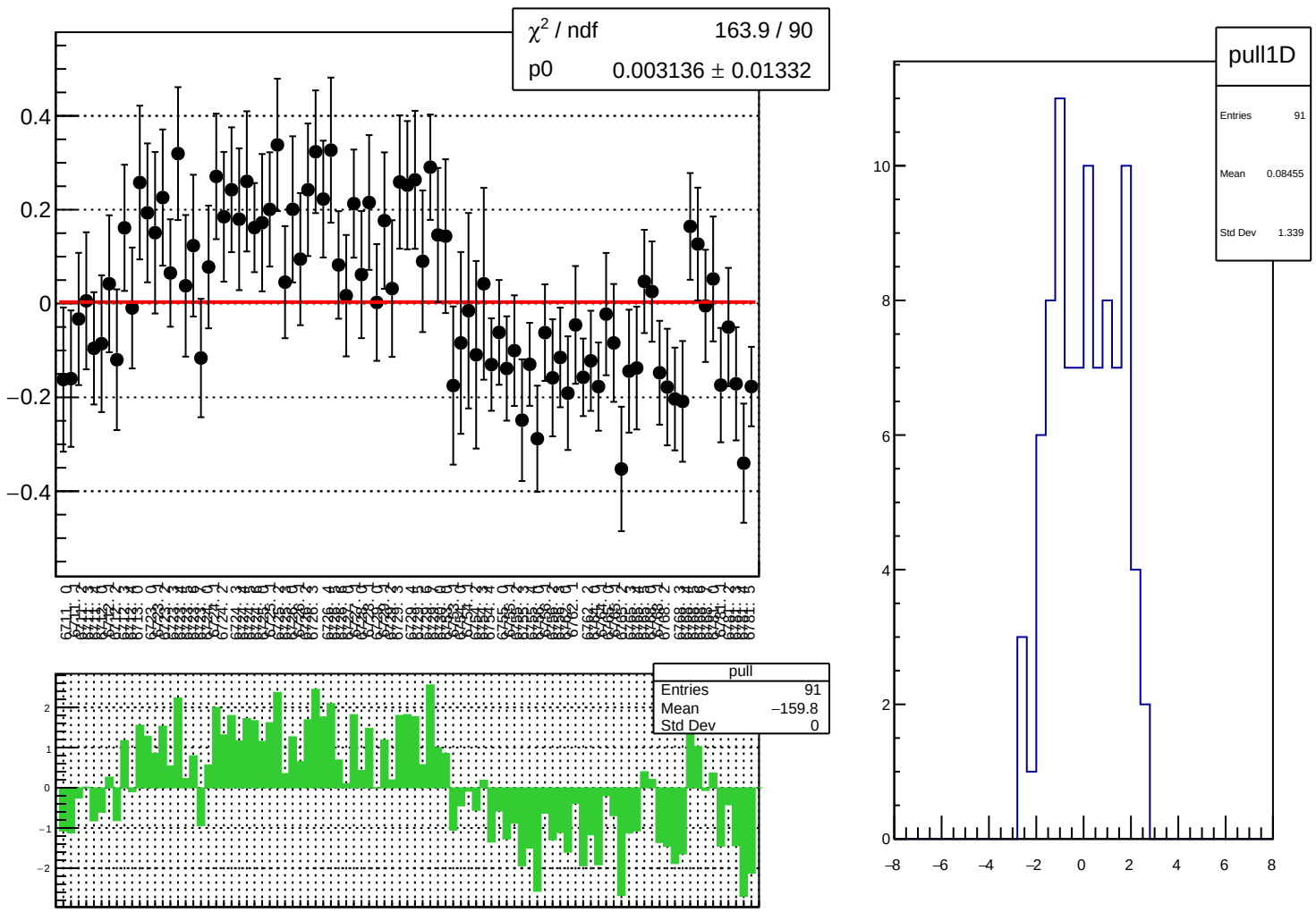

pull1D
Entries 91
Mean 0.2364
Std Dev 1.274

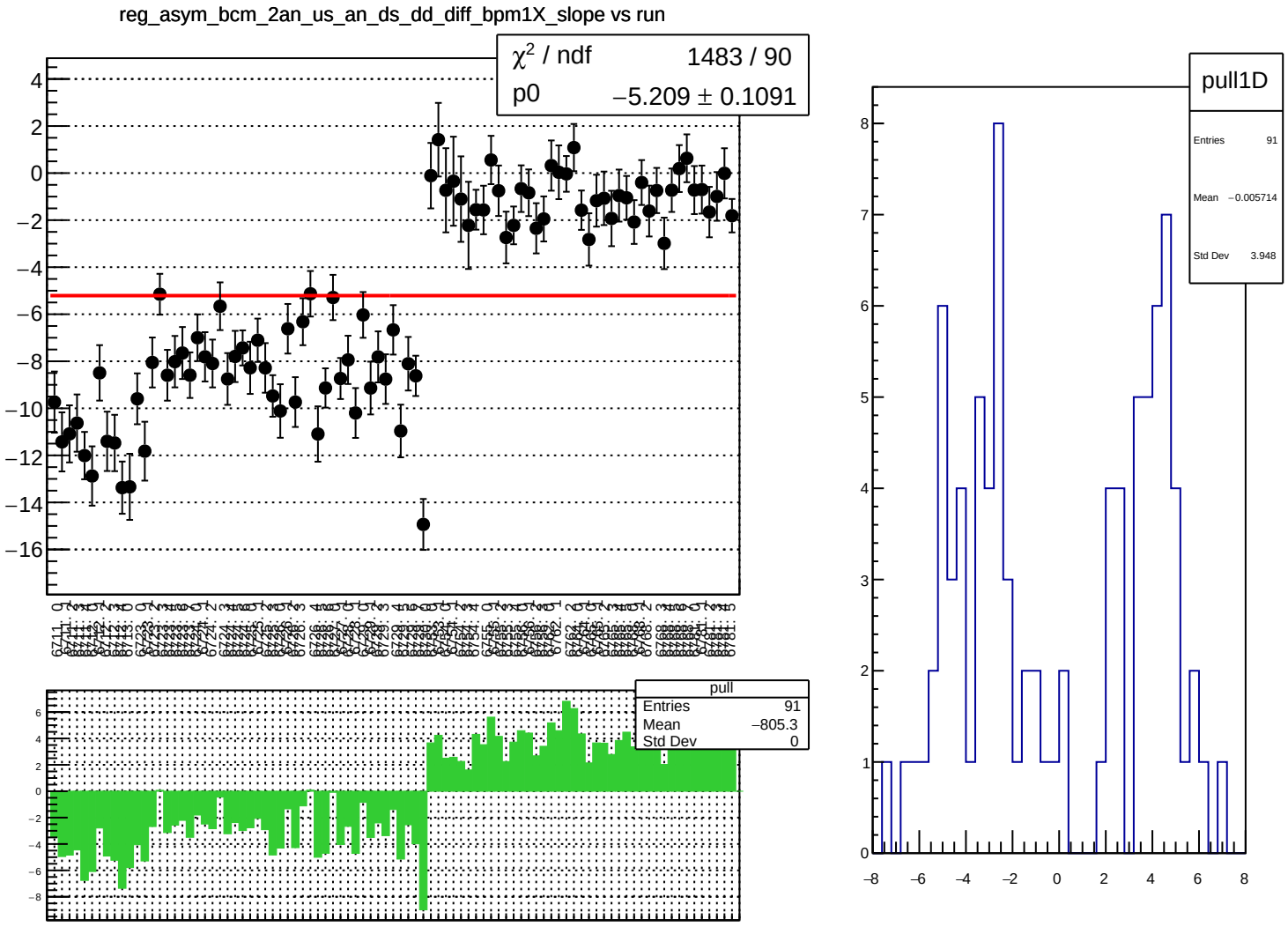

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 1576 / 90
p0 14.97 ± 0.3093
pull
Entries 91
Mean −404.3
Std Dev 0

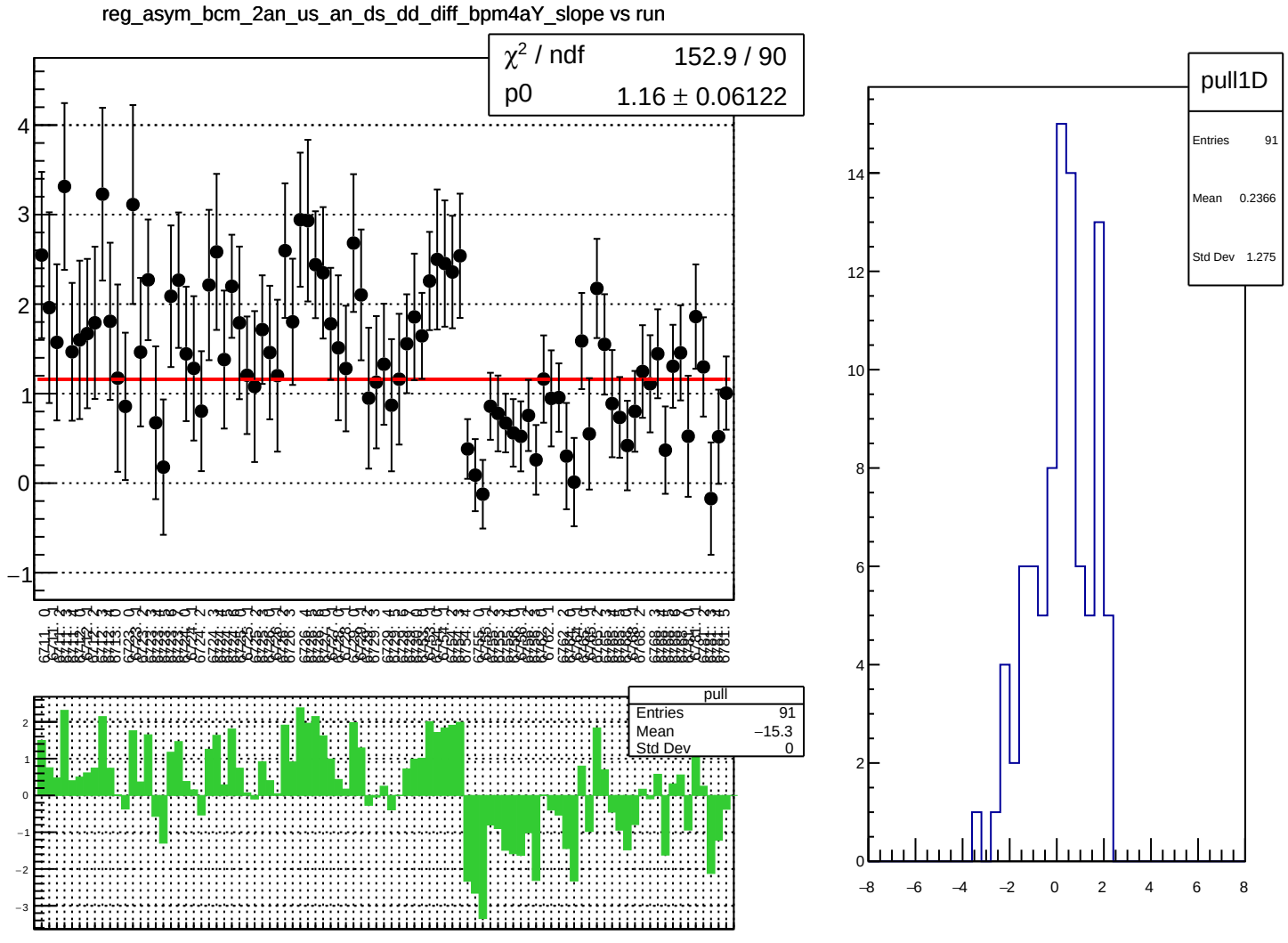

pull1D
Entries 91
Mean 0.1059
Std Dev 4.07

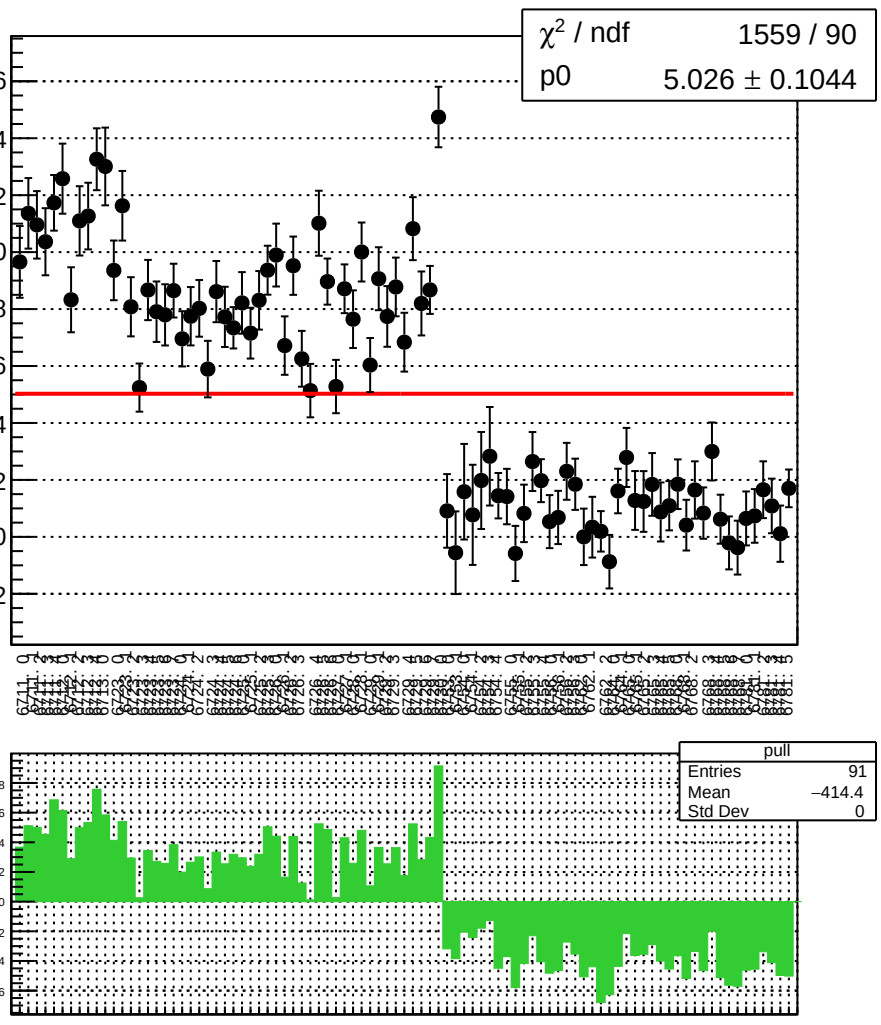

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 175.2 / 90
p0 −5.653 ± 0.2308
pull
Entries 91
Mean −30.85
Std Dev 0

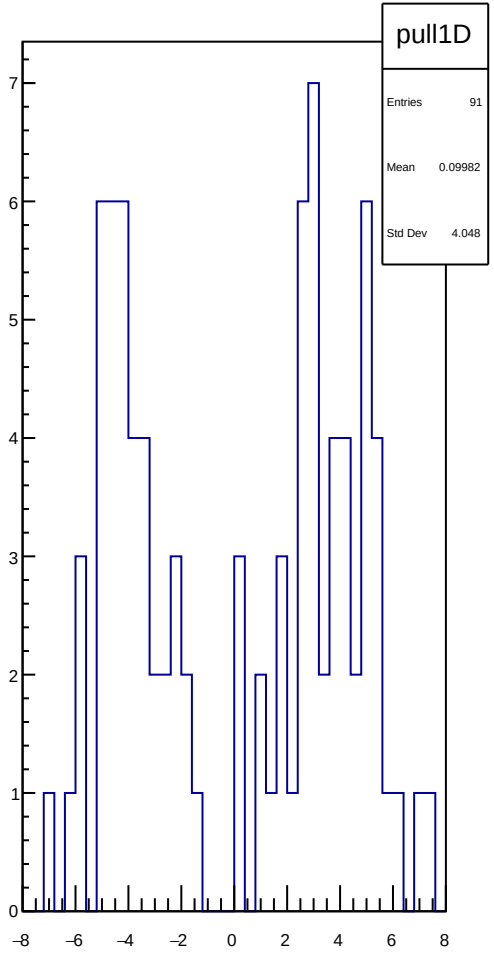

pull1D
Entries 91
Mean −0.2055
Std Dev 1.372

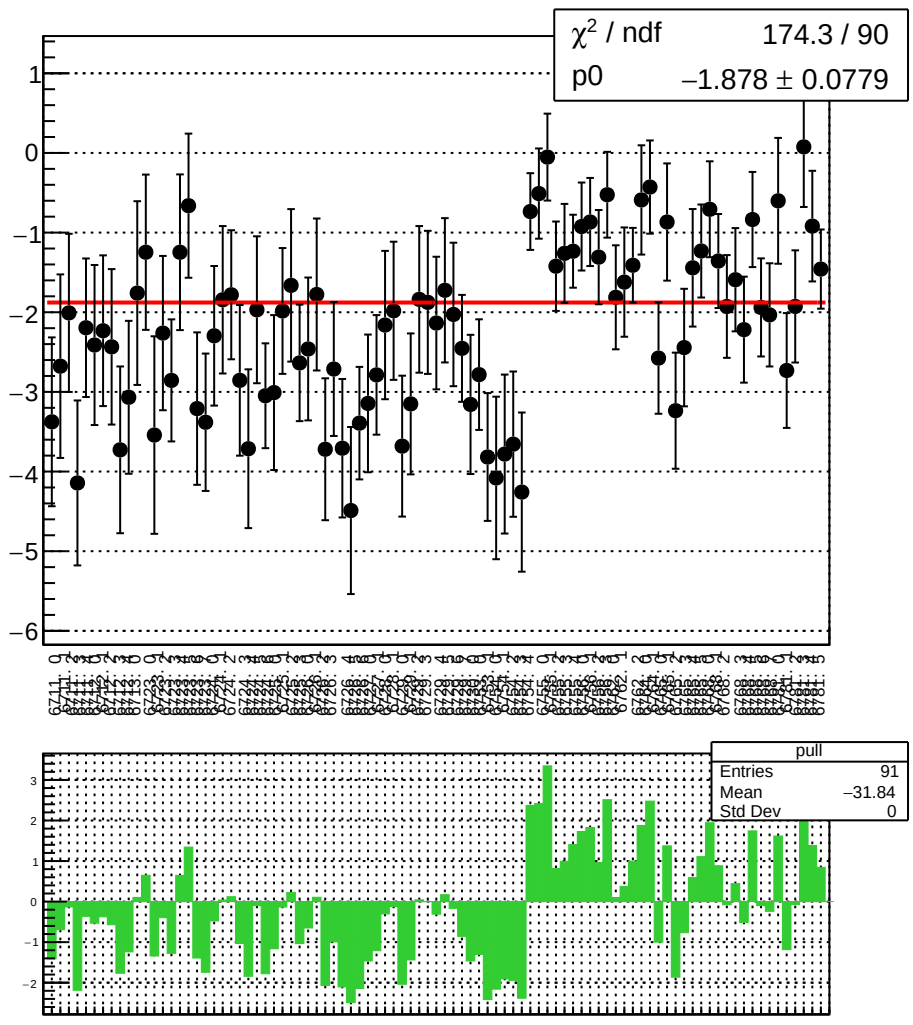

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 163.9 / 90
p0 0.003136 ± 0.01332
0.4
0.2
0
−0.2
−0.4
pull
Entries 91
Mean −159.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.08455
Std Dev 1.339
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

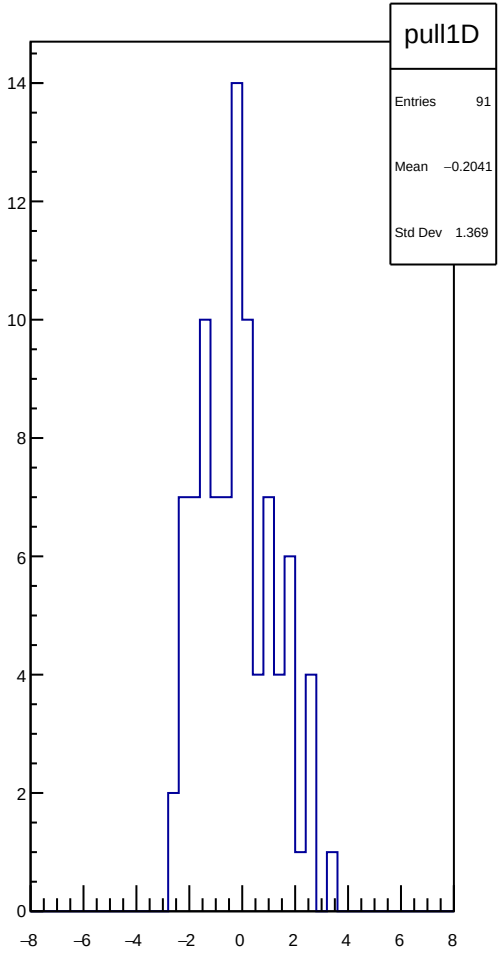

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 1483 / 90
p0 −5.209 ± 0.1091
pull
Entries 91
Mean −805.3
Std Dev 0
pull1D
Entries 91
Mean −0.005714
Std Dev 3.948

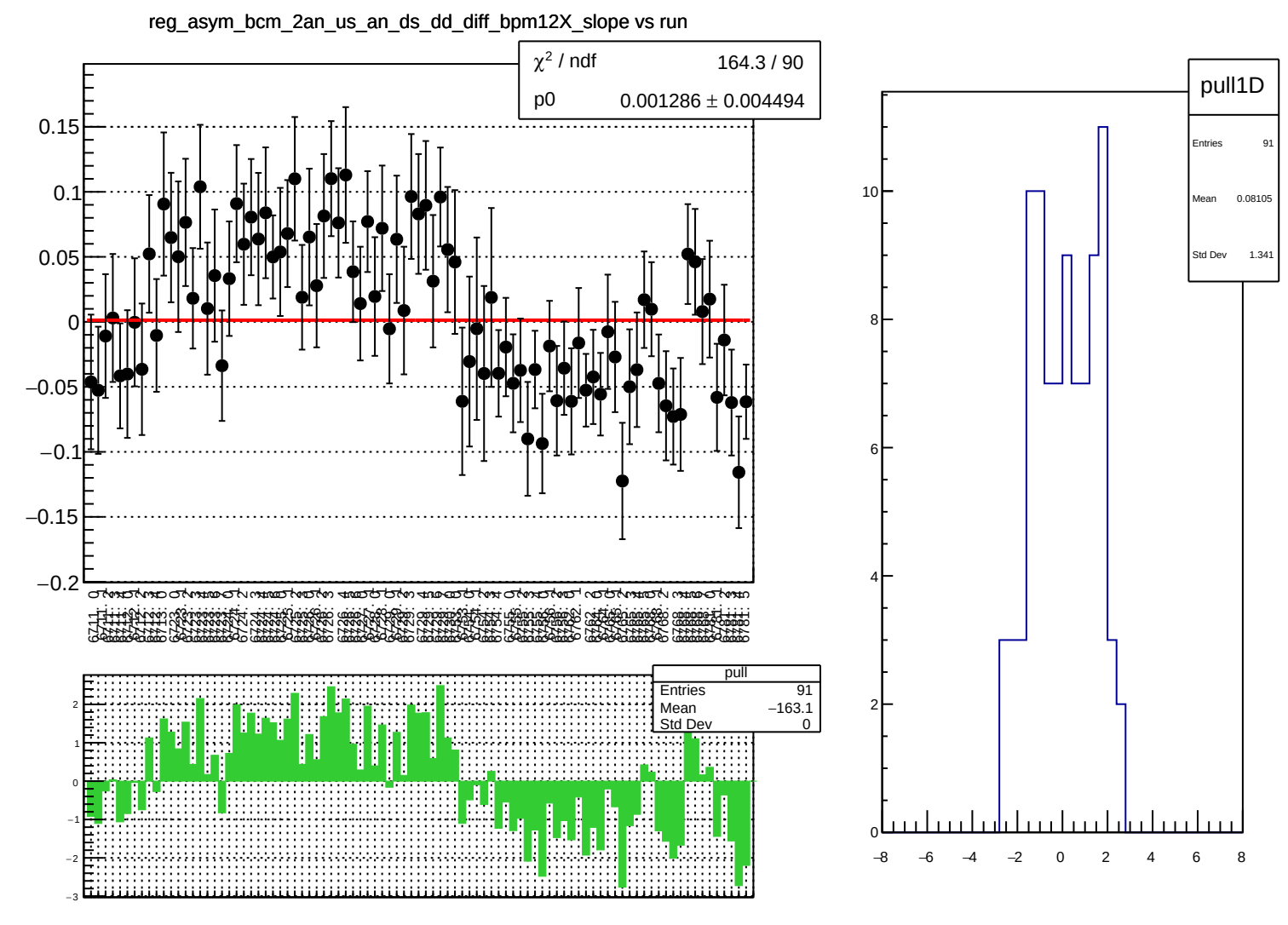

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 152.9 / 90
p0 1.16 ± 0.06122
pull
Entries 91
Mean −15.3
Std Dev 0
pull1D
Entries 91
Mean 0.2366
Std Dev 1.275

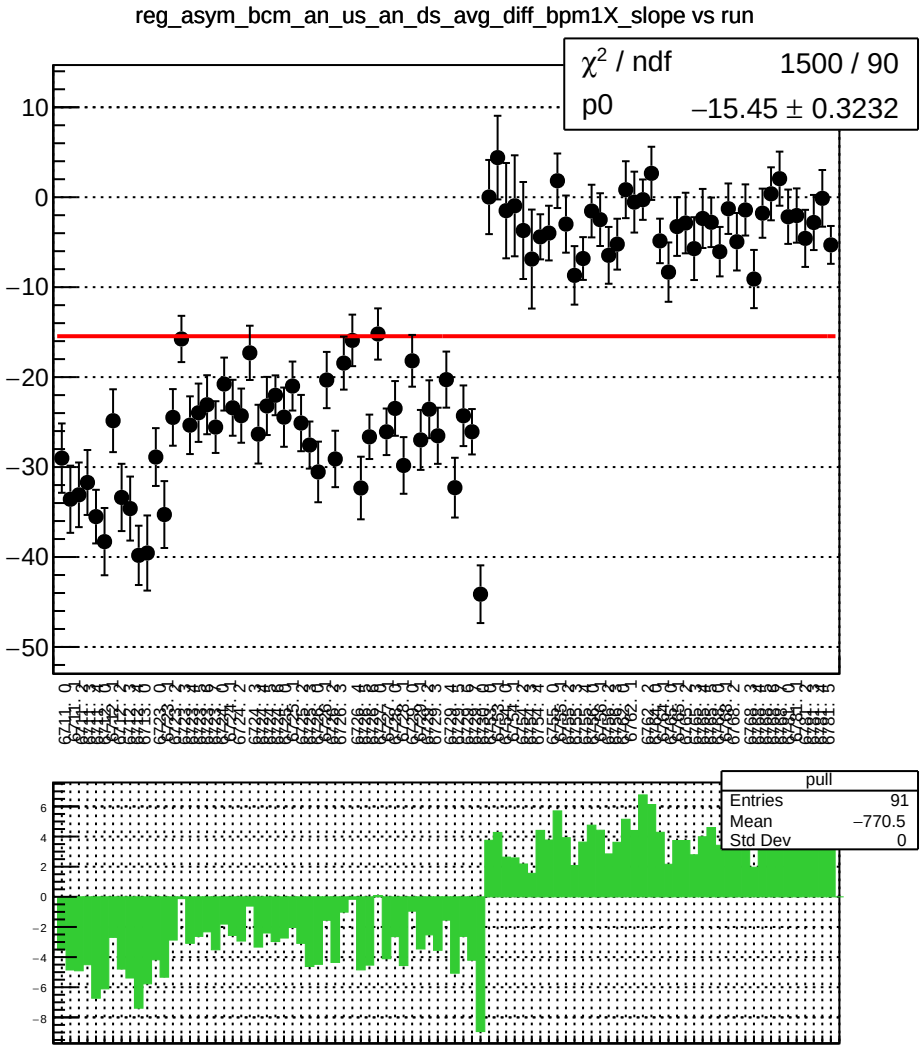

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 1559 / 90
p0 5.026 ± 0.1044
pull
Entries 91
Mean −414.4
Std Dev 0

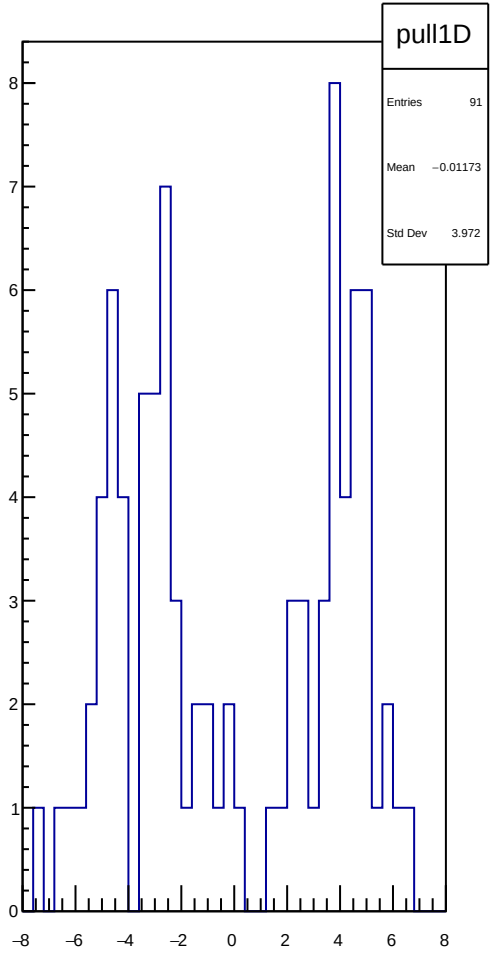

pull1D
Entries 91
Mean 0.09982
Std Dev 4.048

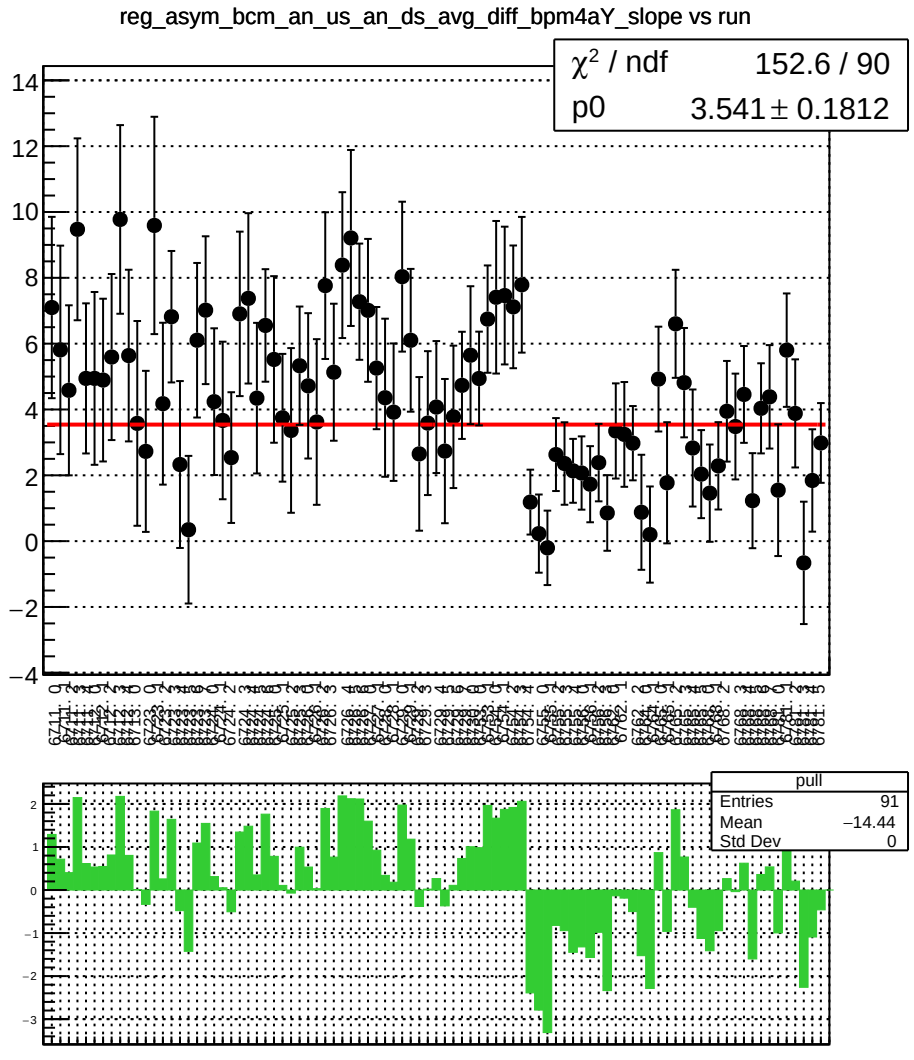

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 174.3 / 90
p0 −1.878 ± 0.0779
pull
Entries 91
Mean −31.84
Std Dev 0

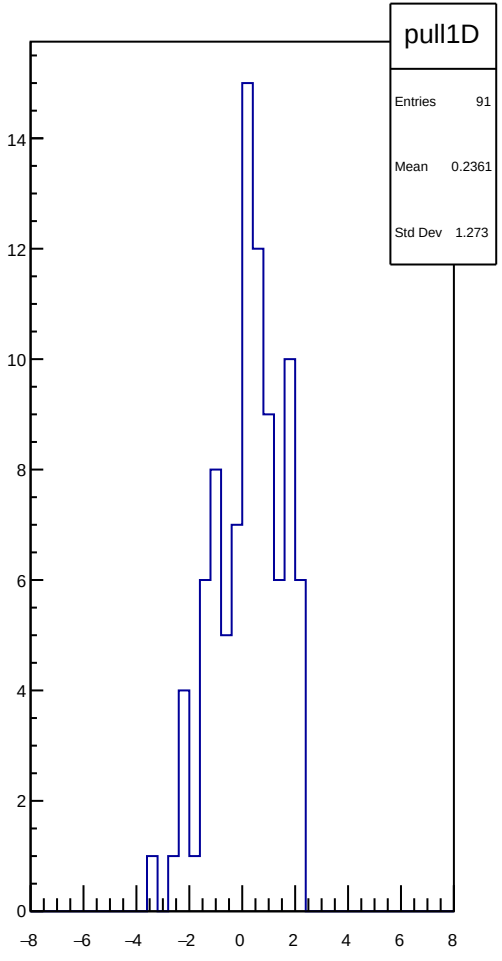

pull1D
Entries 91
Mean −0.2041
Std Dev 1.369

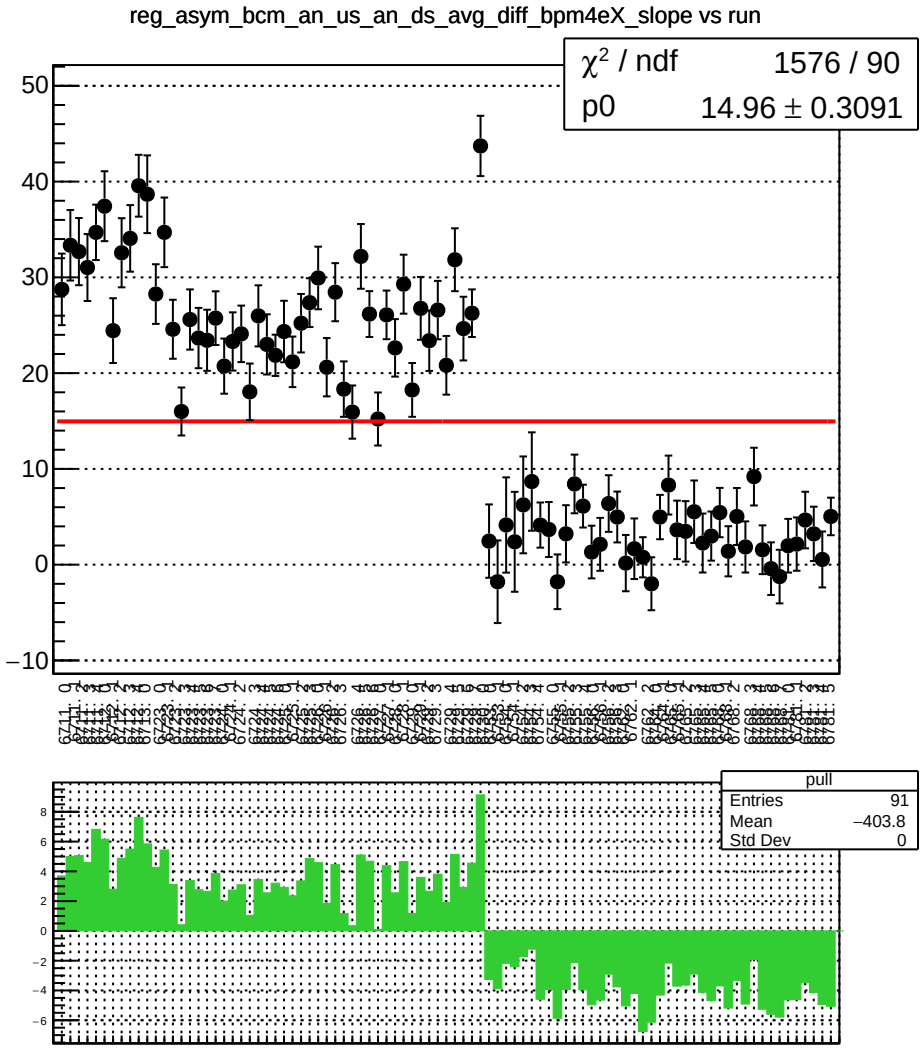

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 164.3 / 90
p0 0.001286 ± 0.004494
pull
Entries 91
Mean −163.1
Std Dev 0
pull1D
Entries 91
Mean 0.08105
Std Dev 1.341

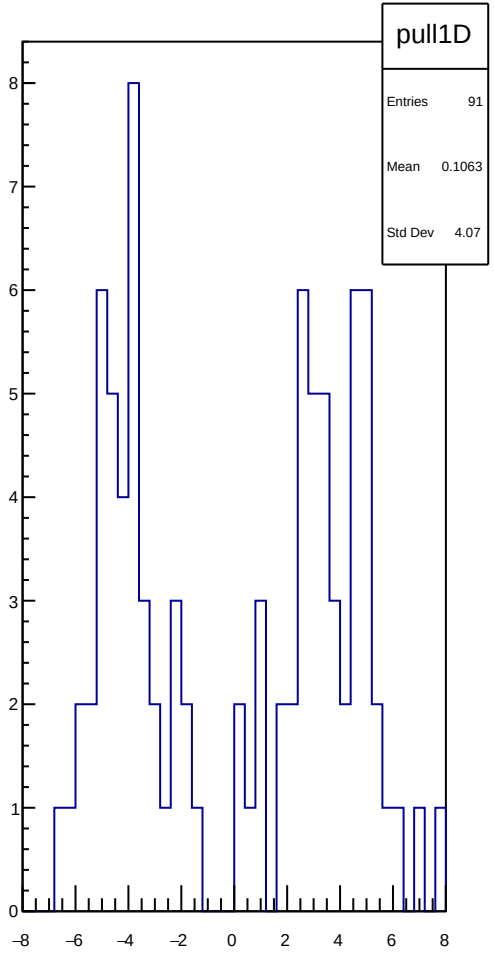

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 1500 / 90
p0 −15.45 ± 0.3232
pull
Entries 91
Mean −770.5
Std Dev 0

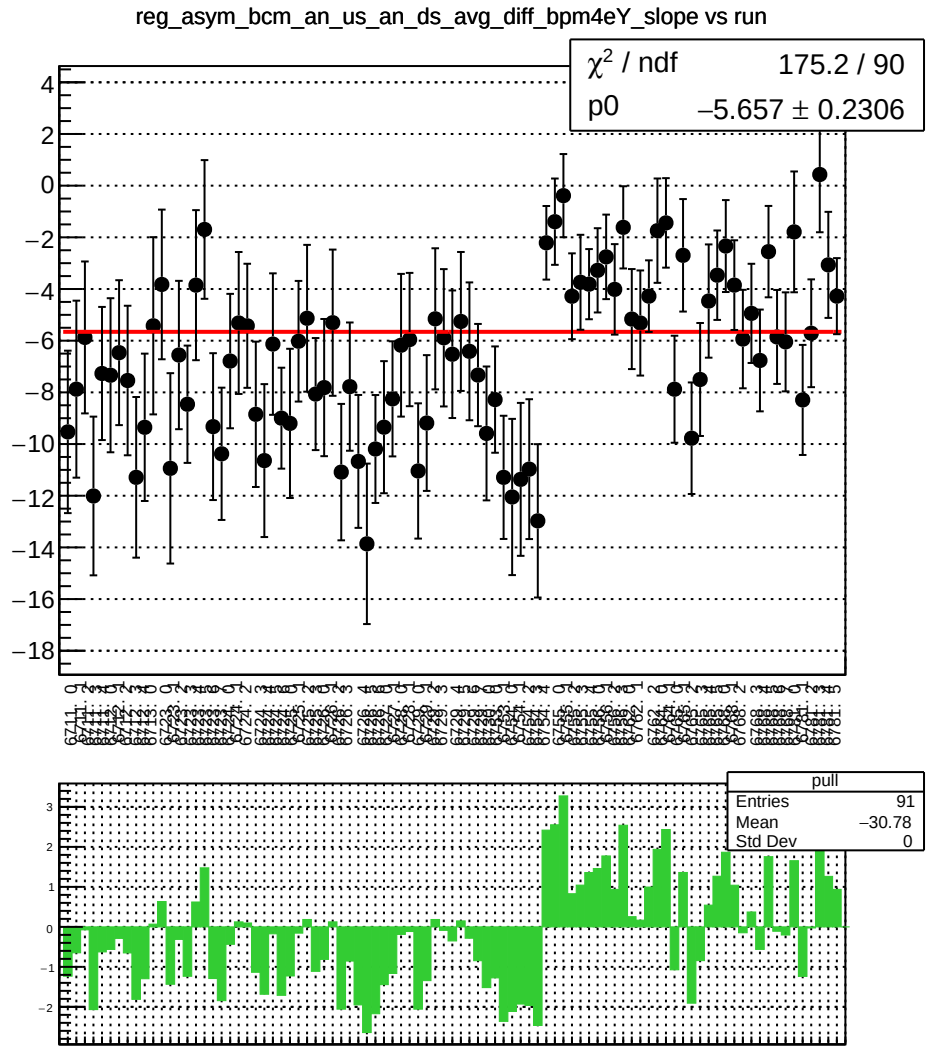

pull1D
Entries 91
Mean −0.01173
Std Dev 3.972

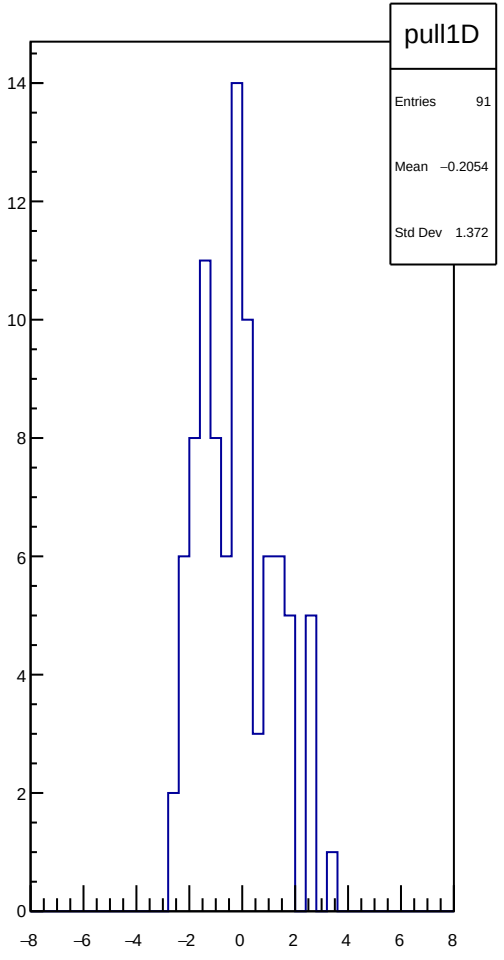

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 152.6 / 90
p0 3.541 ± 0.1812
pull
Entries 91
Mean −14.44
Std Dev 0

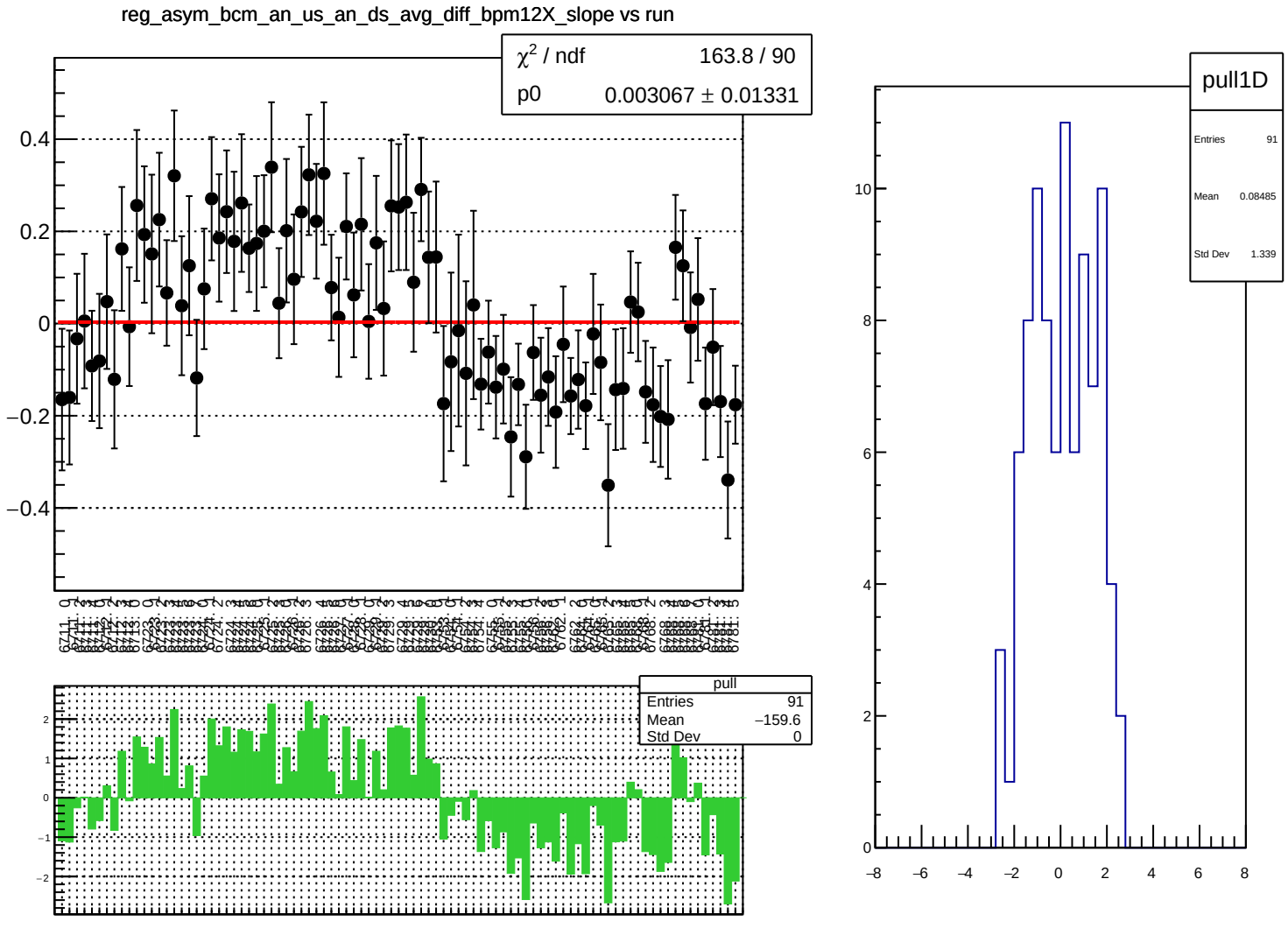

pull1D
Entries 91
Mean 0.2361
Std Dev 1.273

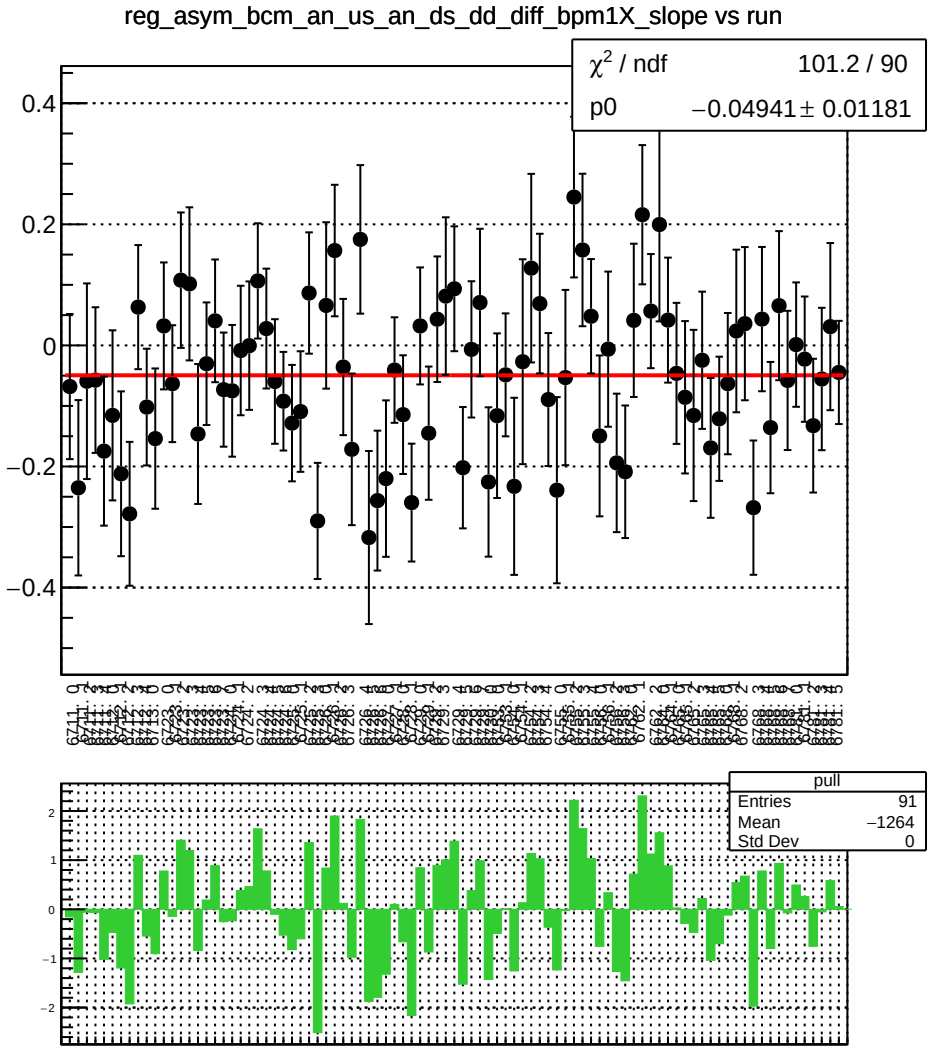

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 1576 / 90
p0 14.96 ± 0.3091
pull
Entries 91
Mean −403.8
Std Dev 0

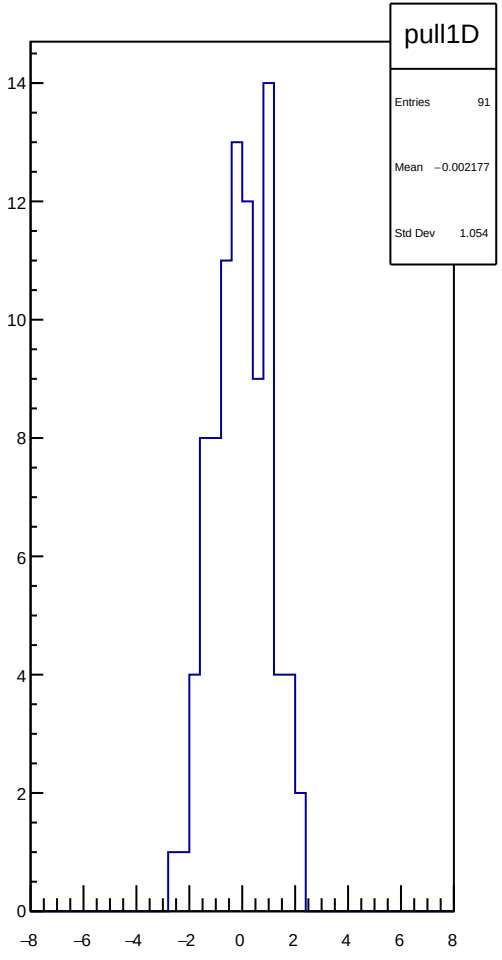

pull1D
Entries 91
Mean 0.1063
Std Dev 4.07

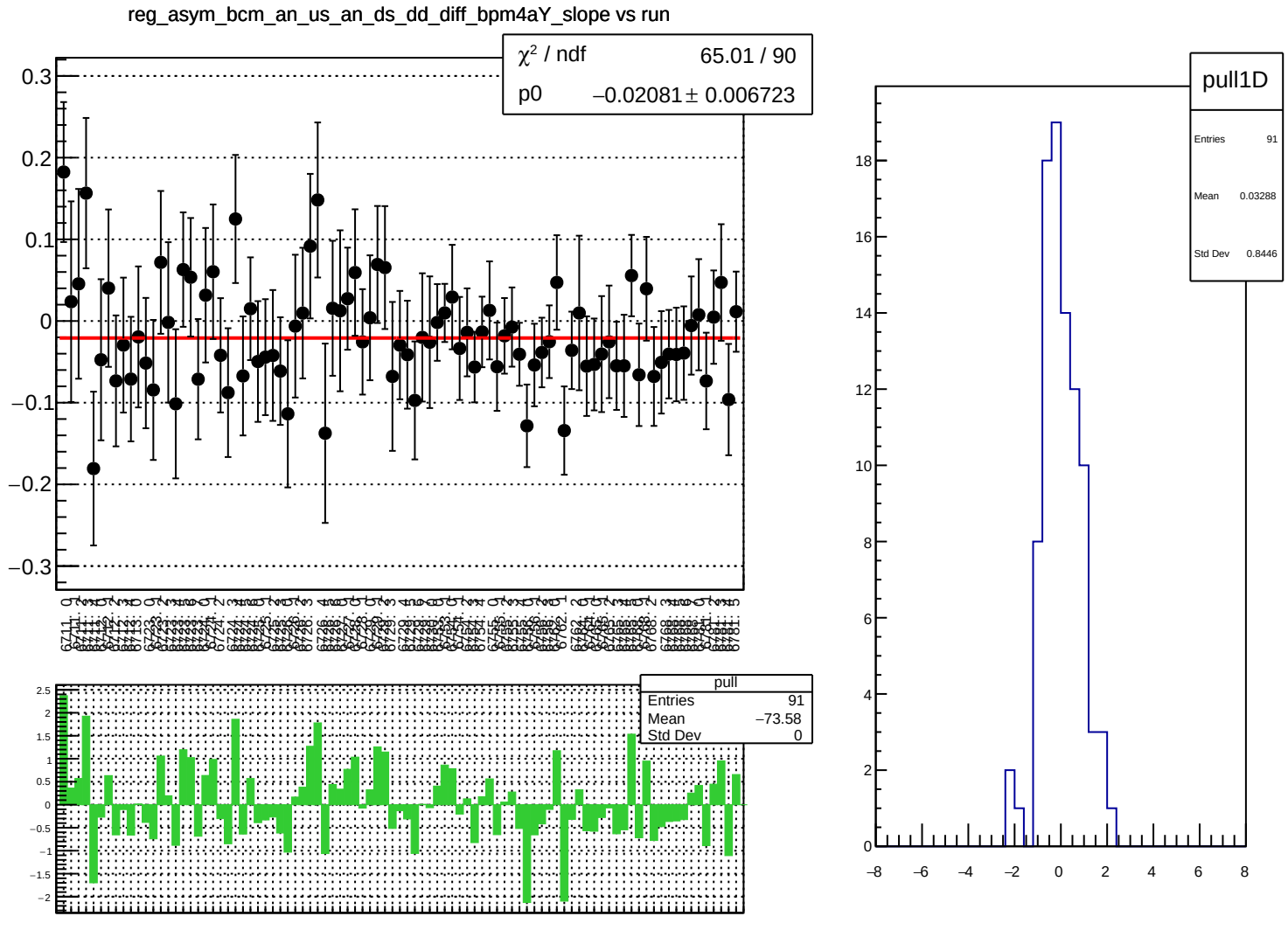

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 175.2 / 90
p0 −5.657 ± 0.2306
pull
Entries 91
Mean −30.78
Std Dev 0

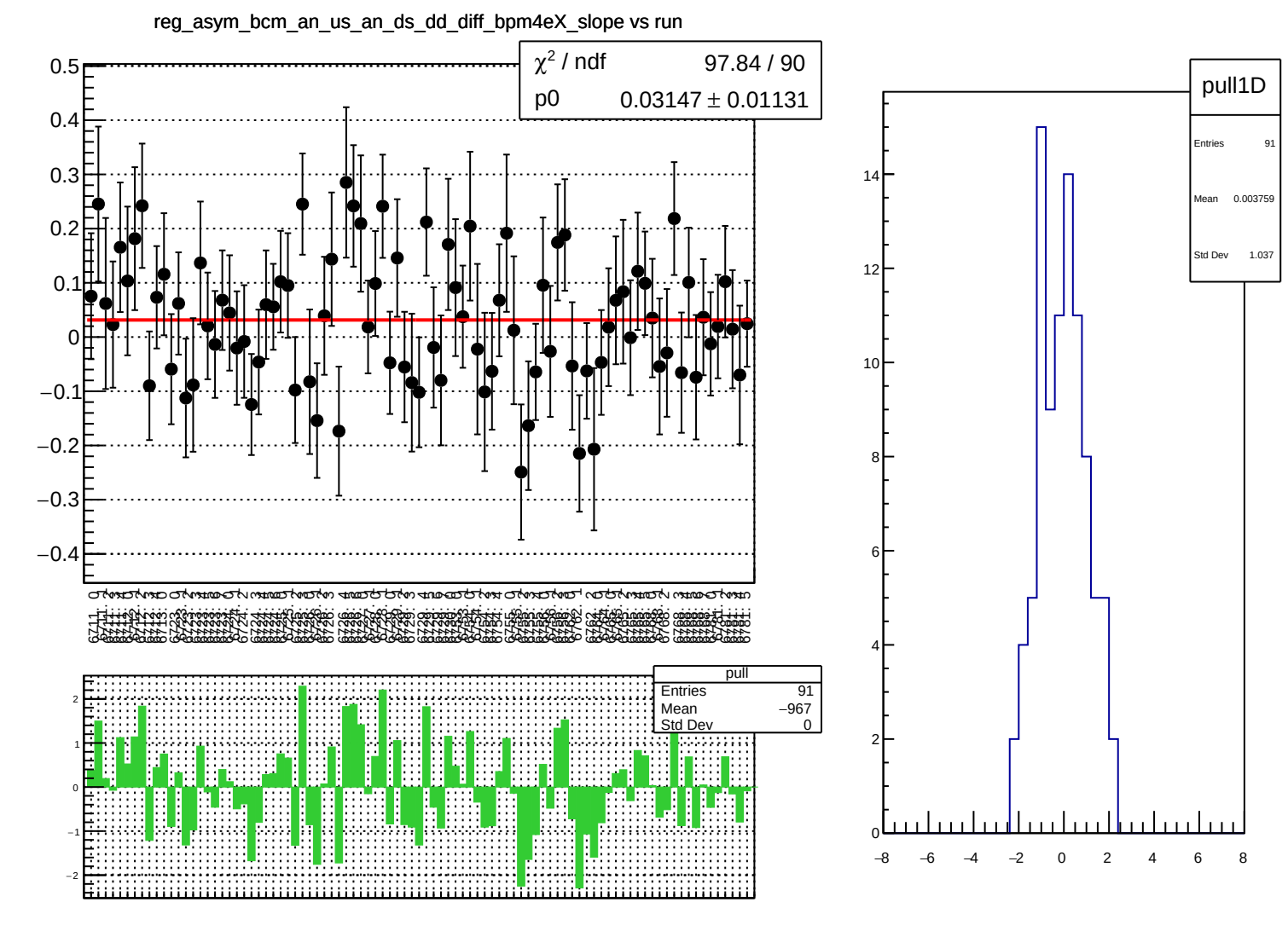

pull1D
Entries 91
Mean −0.2054
Std Dev 1.372

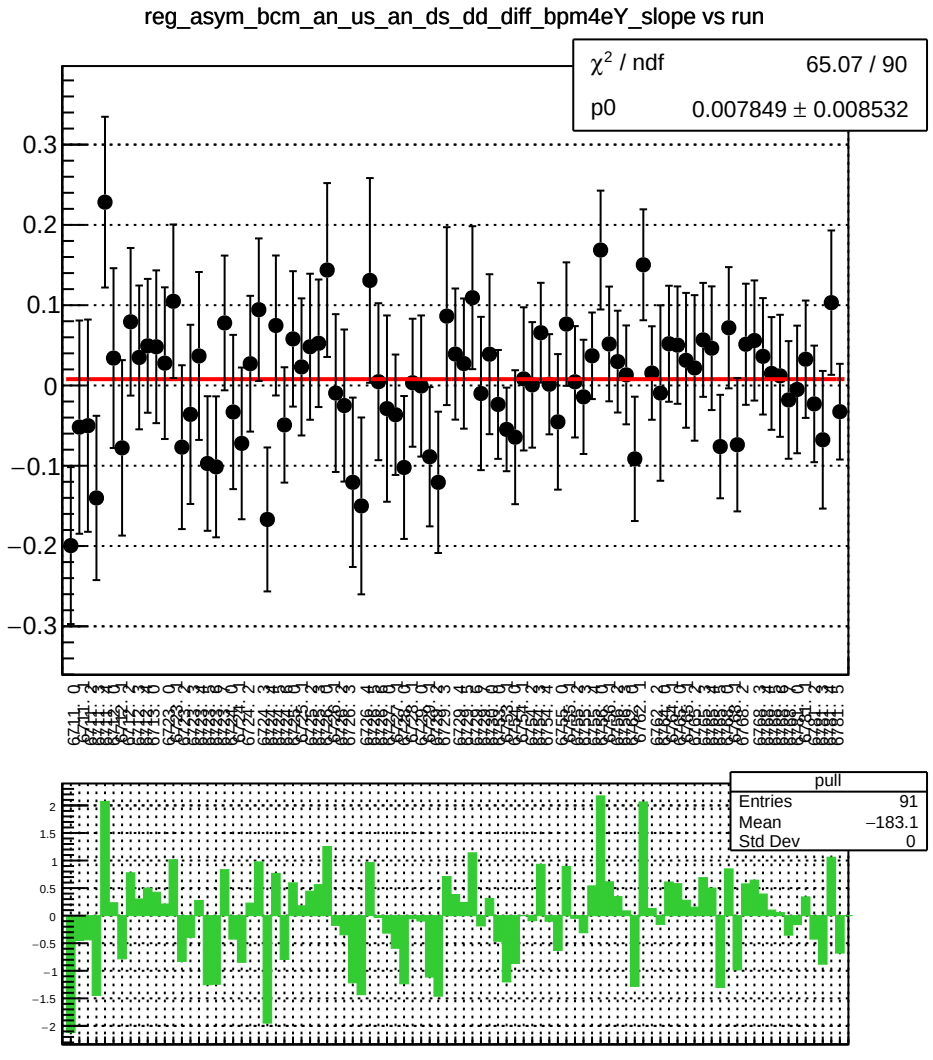

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 163.8 / 90
p0 0.003067 ± 0.01331
0.4
0.2
0
−0.2
−0.4
pull
Entries 91
Mean −159.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.08485
Std Dev 1.339
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

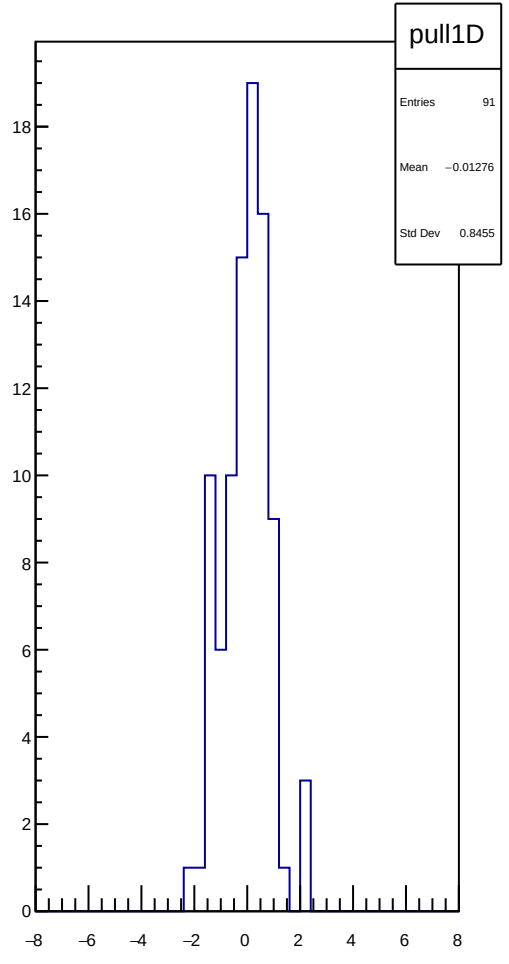

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 101.2 / 90
p0 −0.04941 ± 0.01181
pull
Entries 91
Mean −1264
Std Dev 0

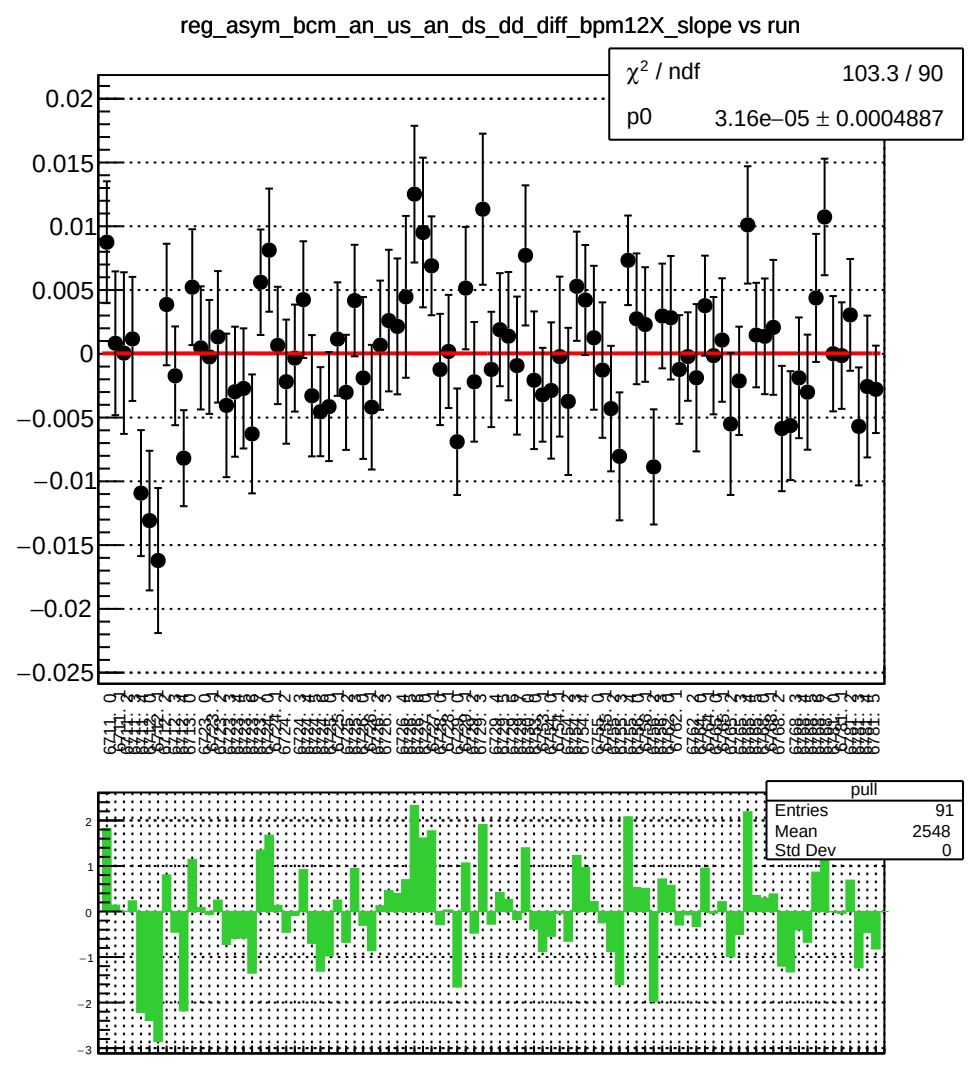

pull1D
Entries 91
Mean −0.002177
Std Dev 1.054

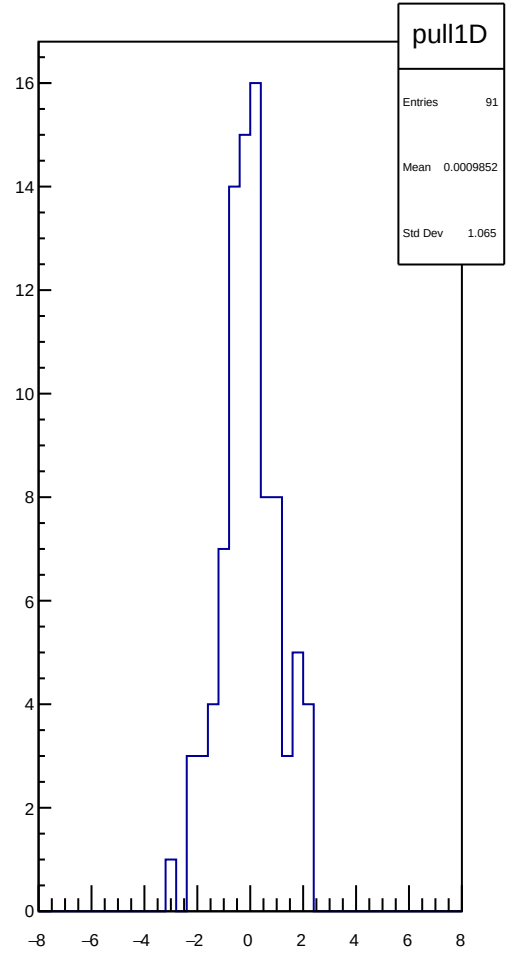

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.01 / 90
p0 −0.02081 ± 0.006723
pull
Entries 91
Mean −73.58
Std Dev 0
pull1D
Entries 91
Mean 0.03288
Std Dev 0.8446

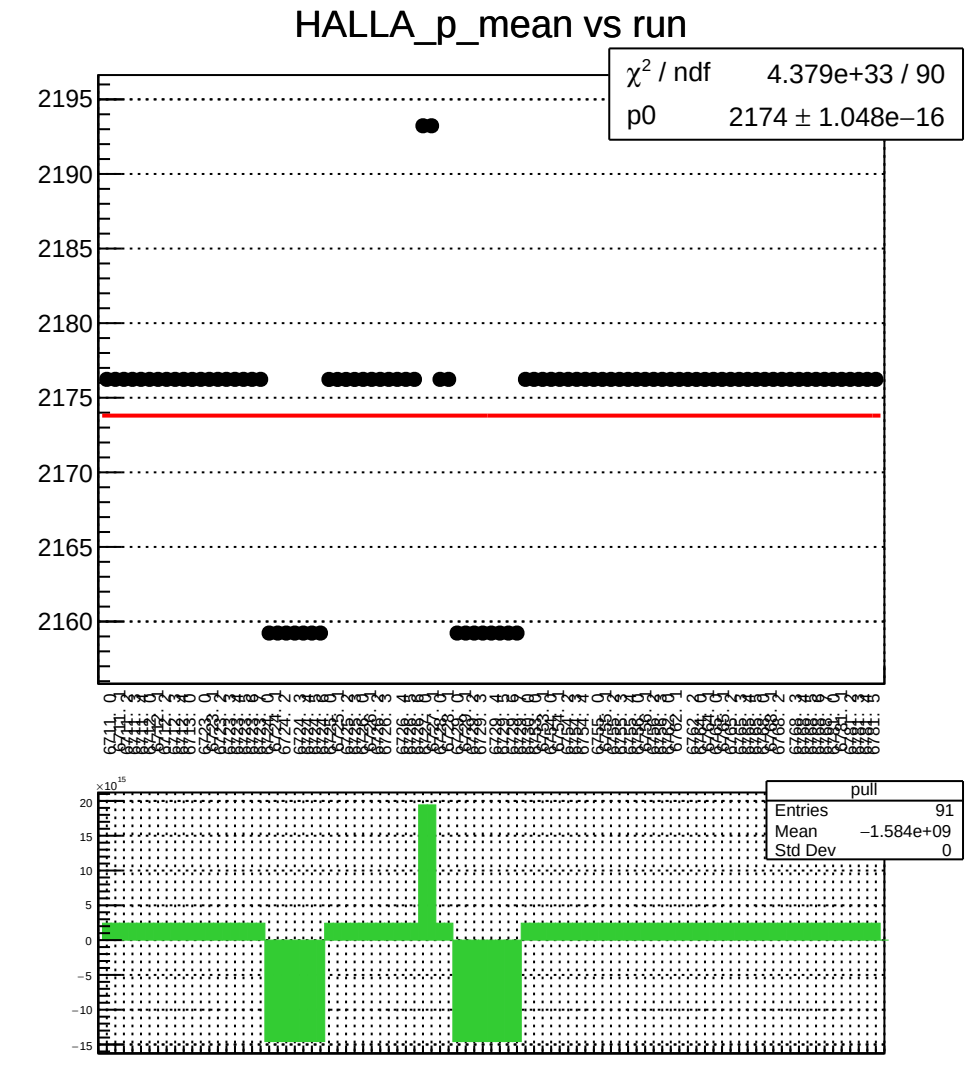

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 97.84 / 90
p0 0.03147 ± 0.01131
pull
Entries 91
Mean −967
Std Dev 0
pull1D
Entries 91
Mean 0.003759
Std Dev 1.037

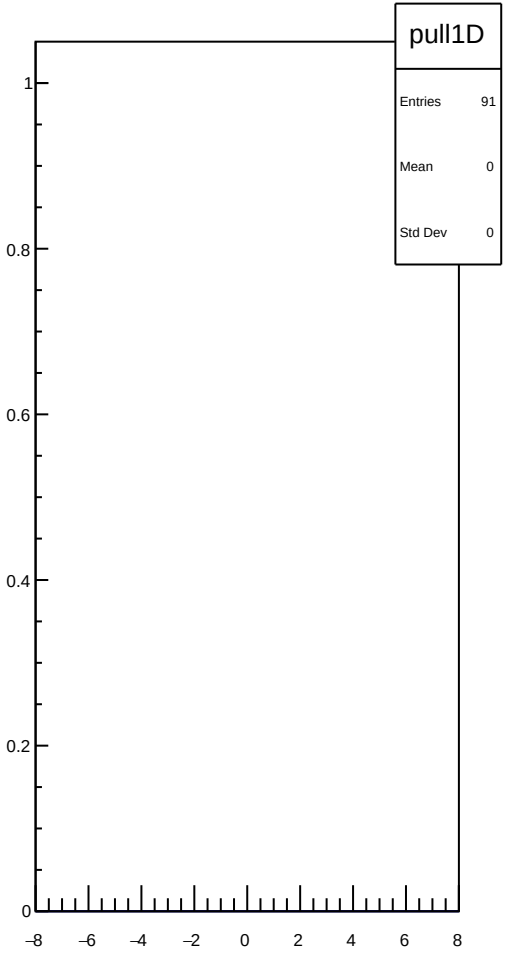

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.07 / 90
p0 0.007849 ± 0.008532
pull
Entries 91
Mean −183.1
Std Dev 0

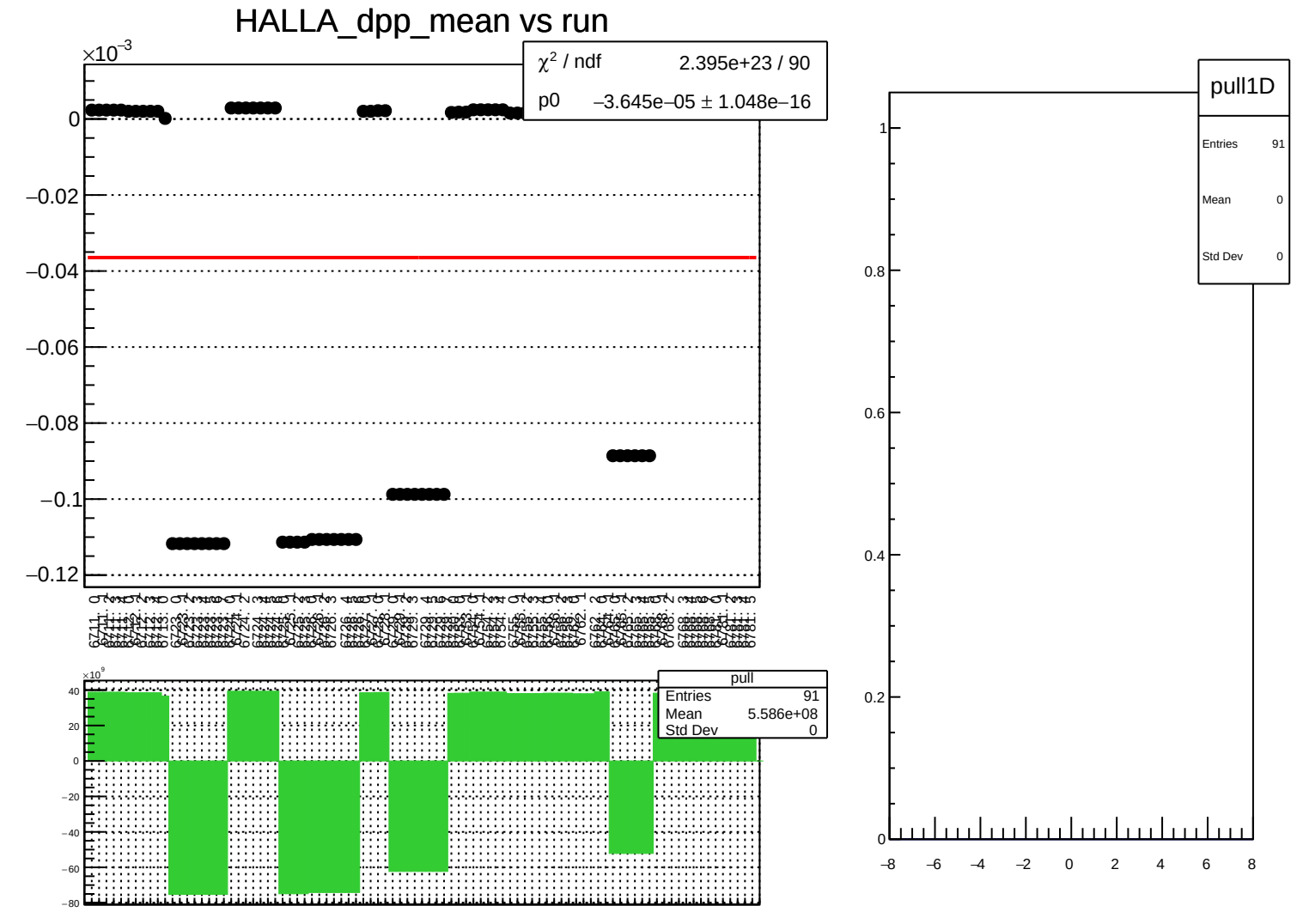

pull1D
Entries 91
Mean −0.01276
Std Dev 0.8455

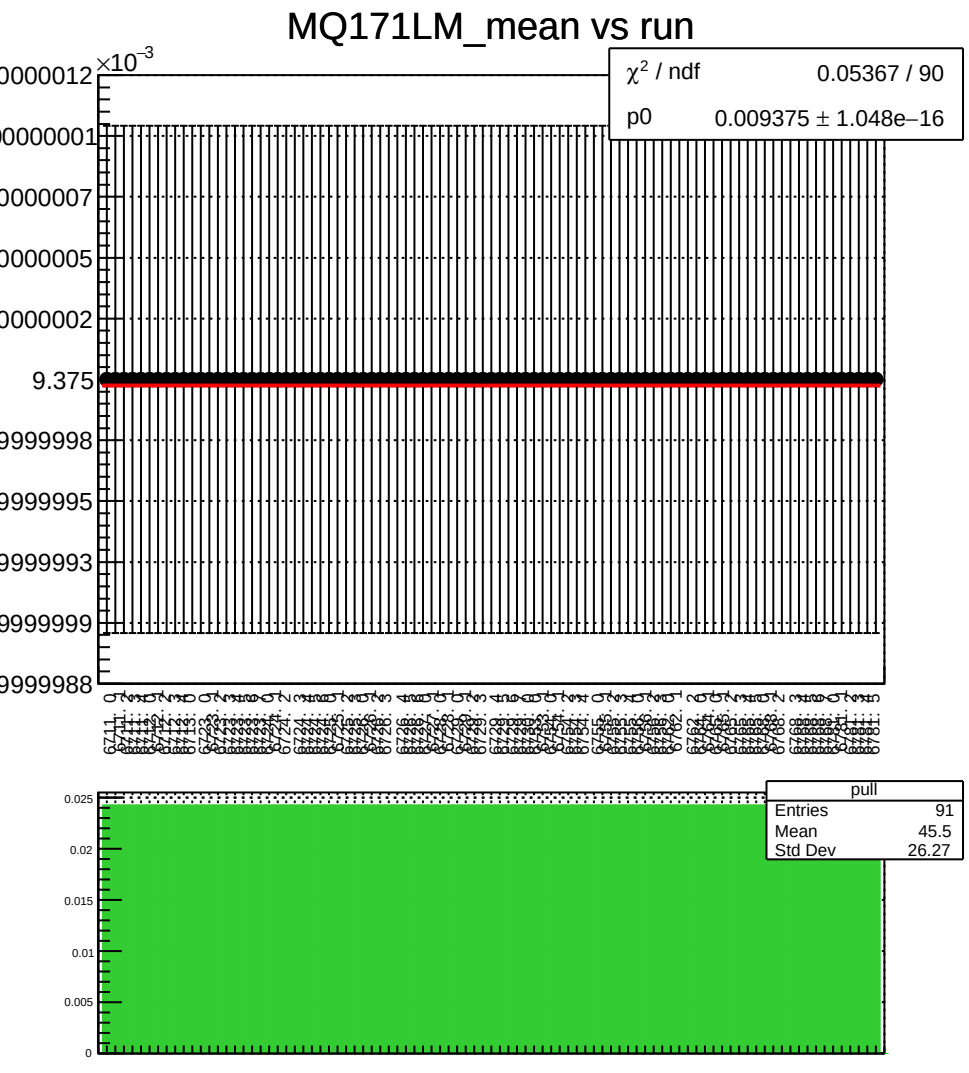

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 103.3 / 90
p0 3.16e−05 ± 0.0004887
pull
Entries 91
Mean 2548
Std Dev 0

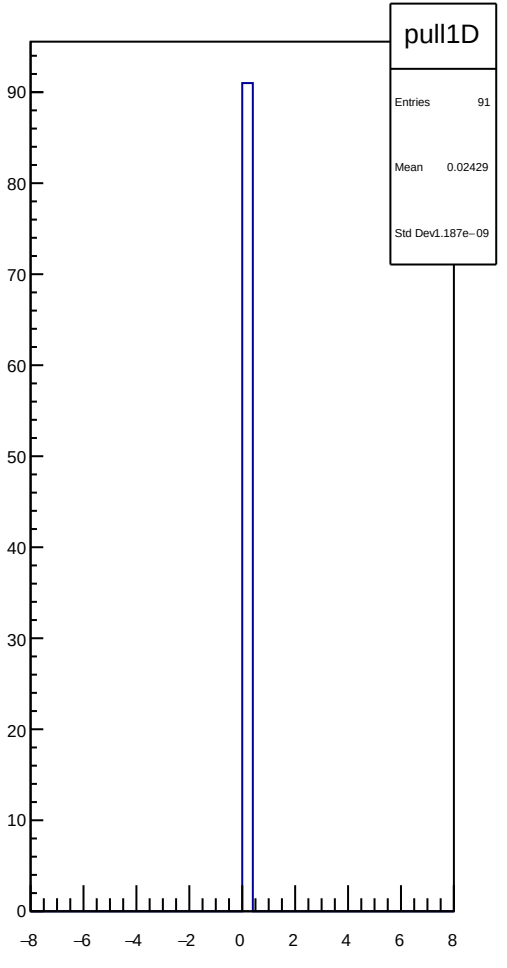

pull1D
Entries 91
Mean 0.0009852
Std Dev 1.065

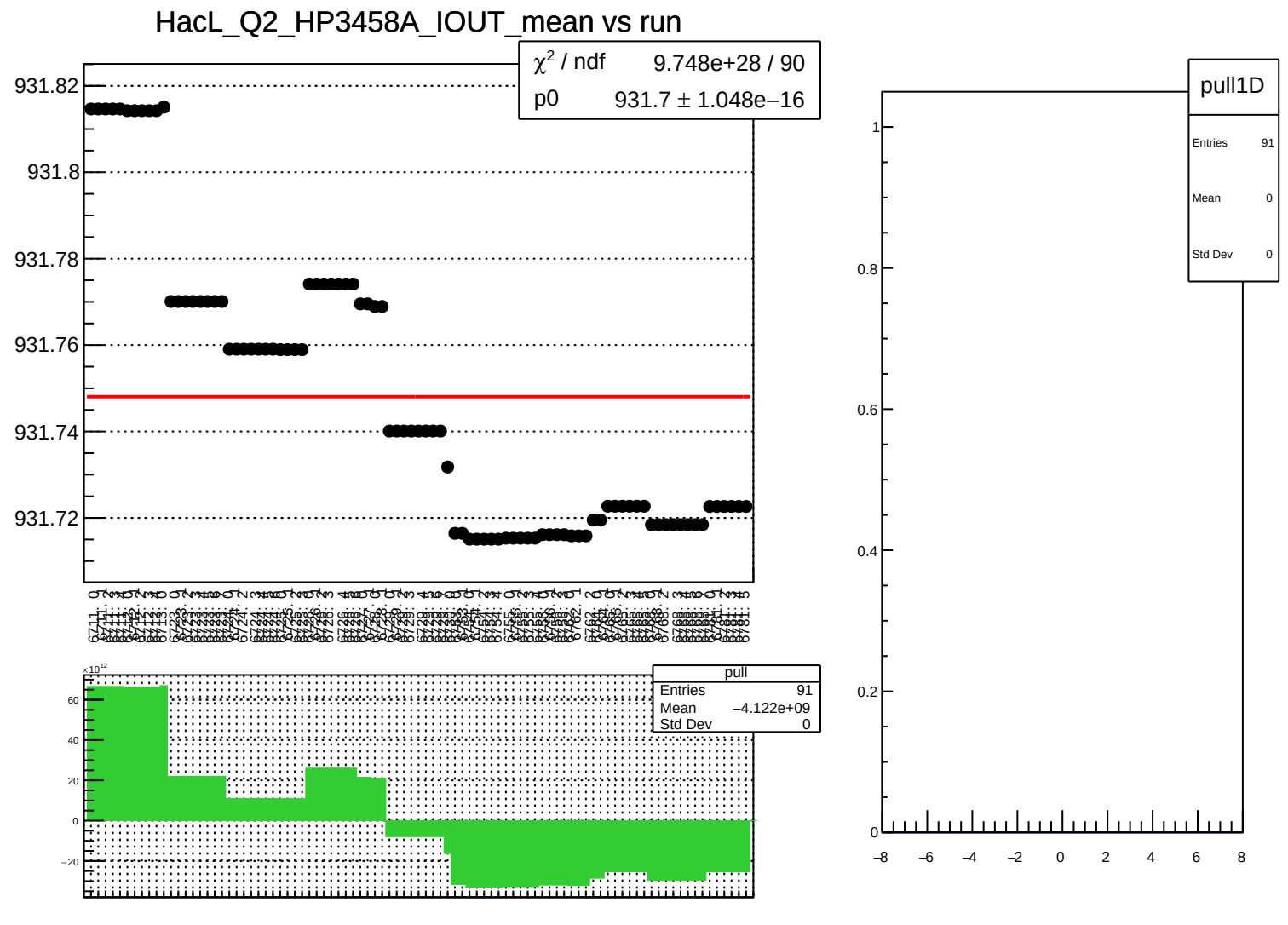

HALLA_p_mean vs run
χ² / ndf 4.379e+33 / 90
p0 2174 ± 1.048e−16
2195
2190
2185
2180
2175
2170
2165
2160
pull
Entries 91
Mean −1.584e+09
Std Dev 0
×10¹⁵
20
15
10
5
0
−5
−10
−15

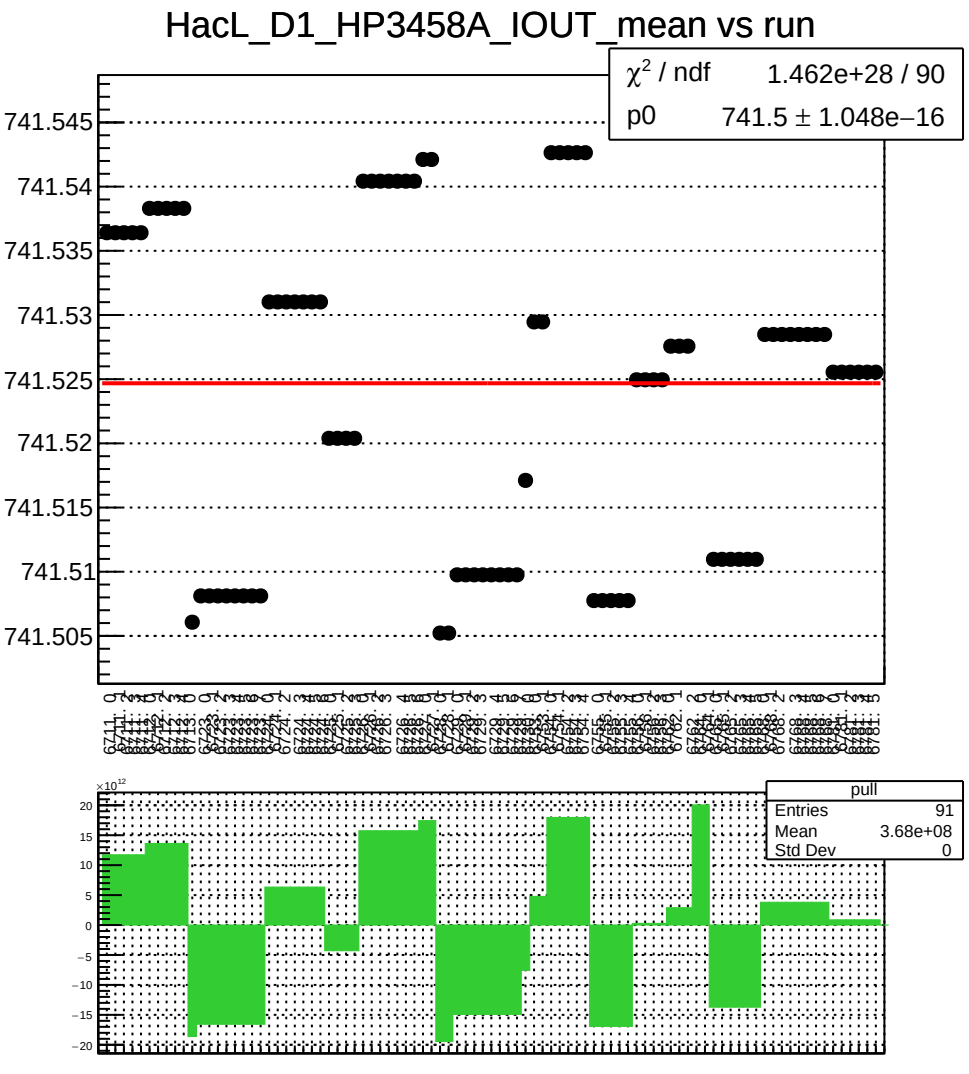

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

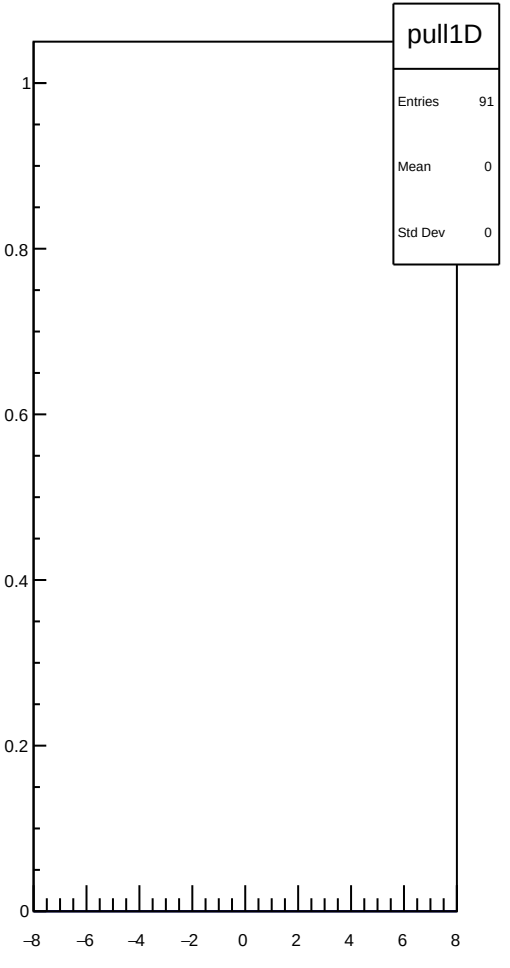

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.395e+23 / 90
p0 −3.645e−05 ± 1.048e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
pull
Entries 91
Mean 5.586e+08
Std Dev 0
40
20
0
−20
−40
−60
−80
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

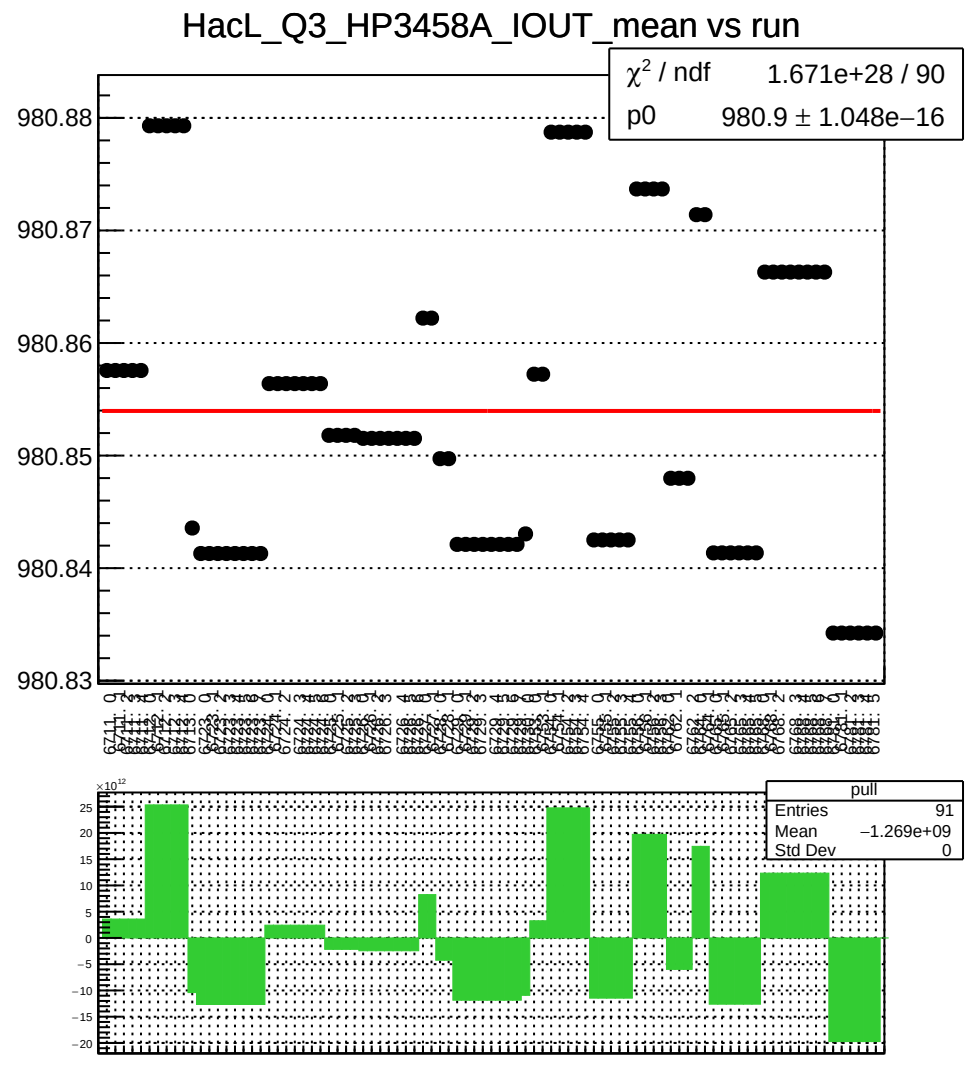

MQ171LM_mean vs run
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
×10⁻³
pull
Entries 91
Mean 45.5
Std Dev 26.27

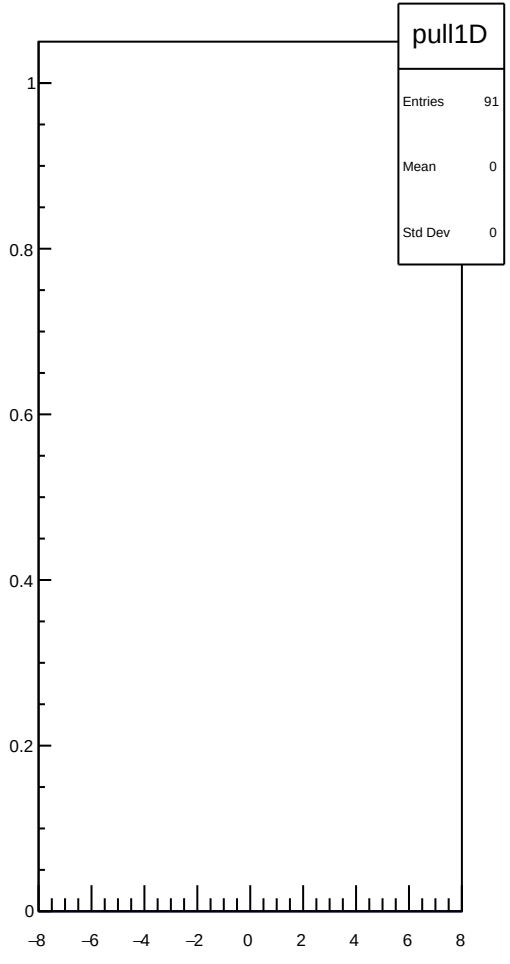

pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09

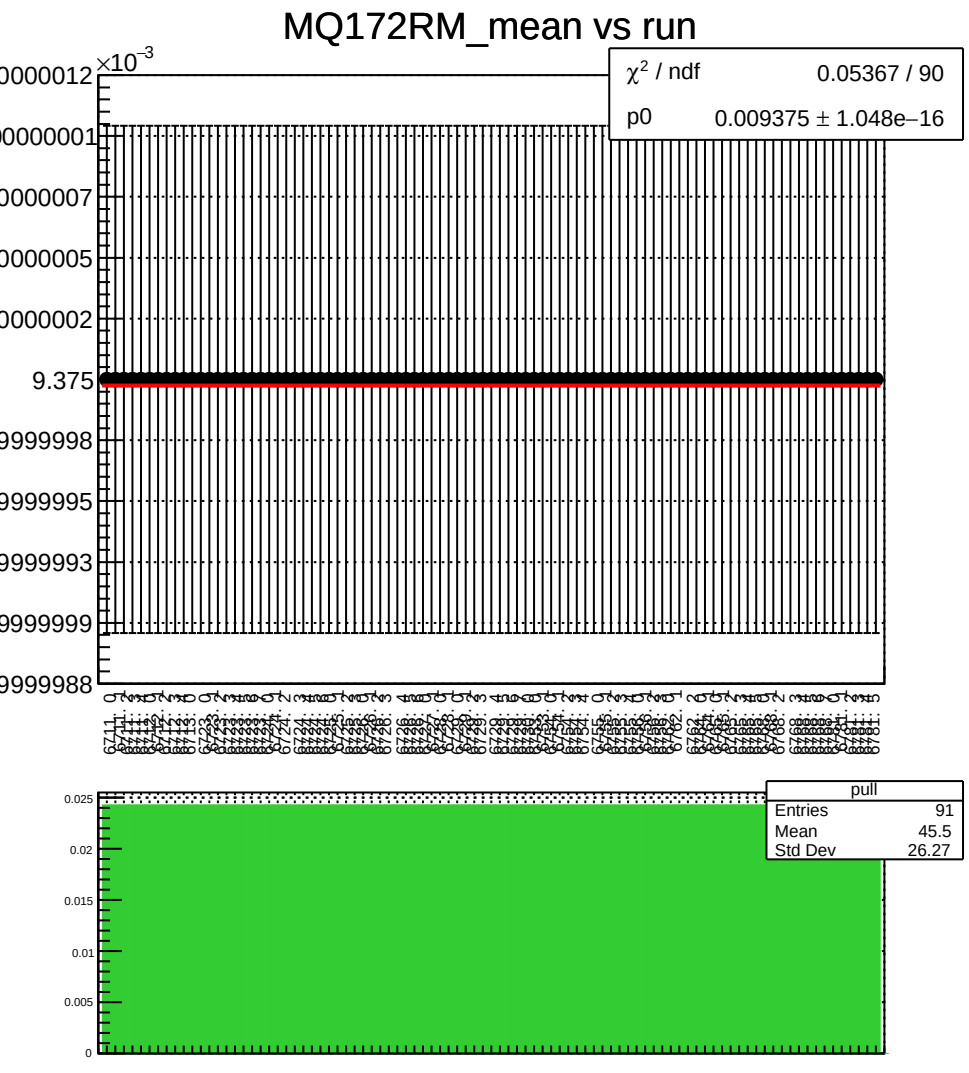

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 9.748e+28 / 90
p0 931.7 ± 1.048e−16
931.82
931.8
931.78
931.76
931.74
931.72
pull
Entries 91
Mean −4.122e+09
Std Dev 0
×10¹²
60
40
20
0
−20
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

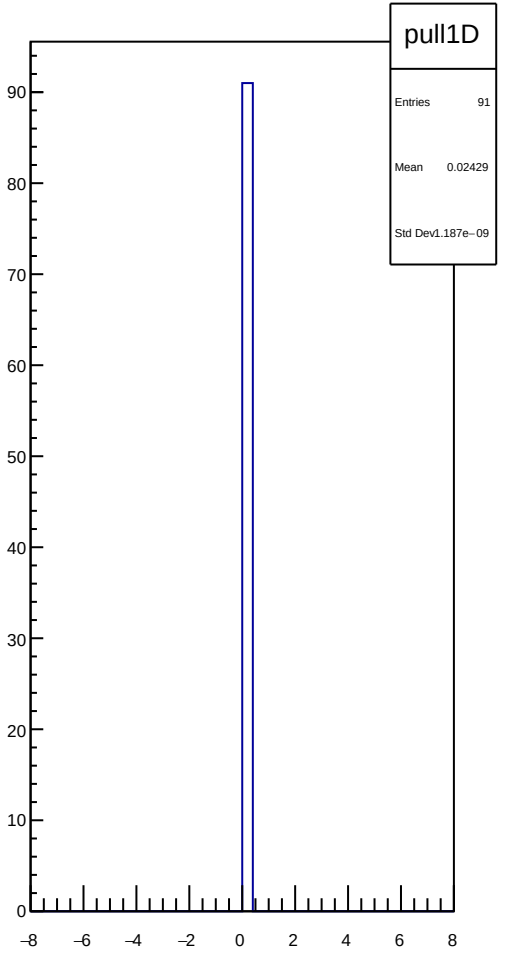

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.462e+28 / 90
p0 741.5 ± 1.048e−16
741.545
741.54
741.535
741.53
741.525
741.52
741.515
741.51
741.505
pull
Entries 91
Mean 3.68e+08
Std Dev 0
×10¹²
20
15
10
5
0
−5
−10
−15
−20

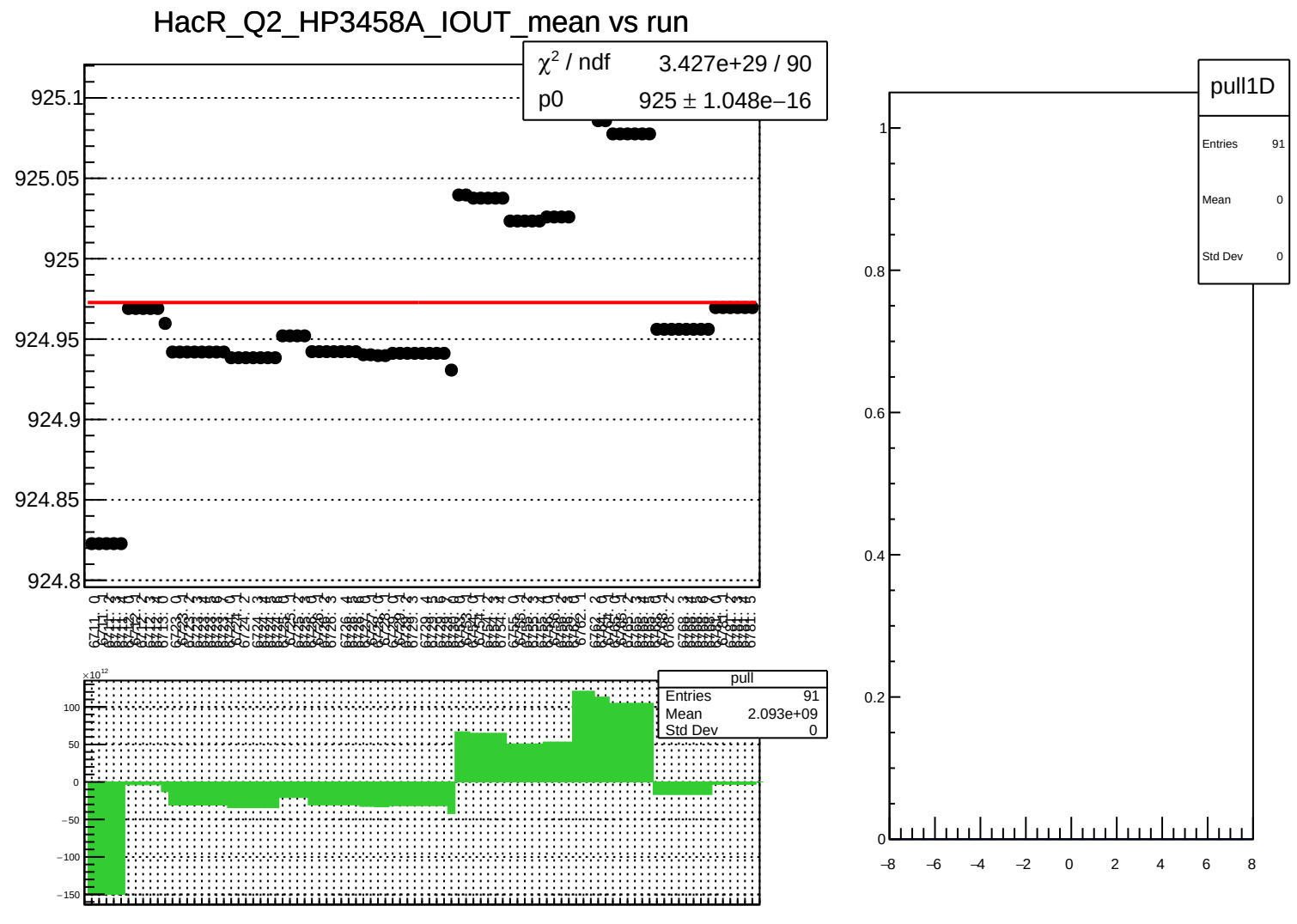

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

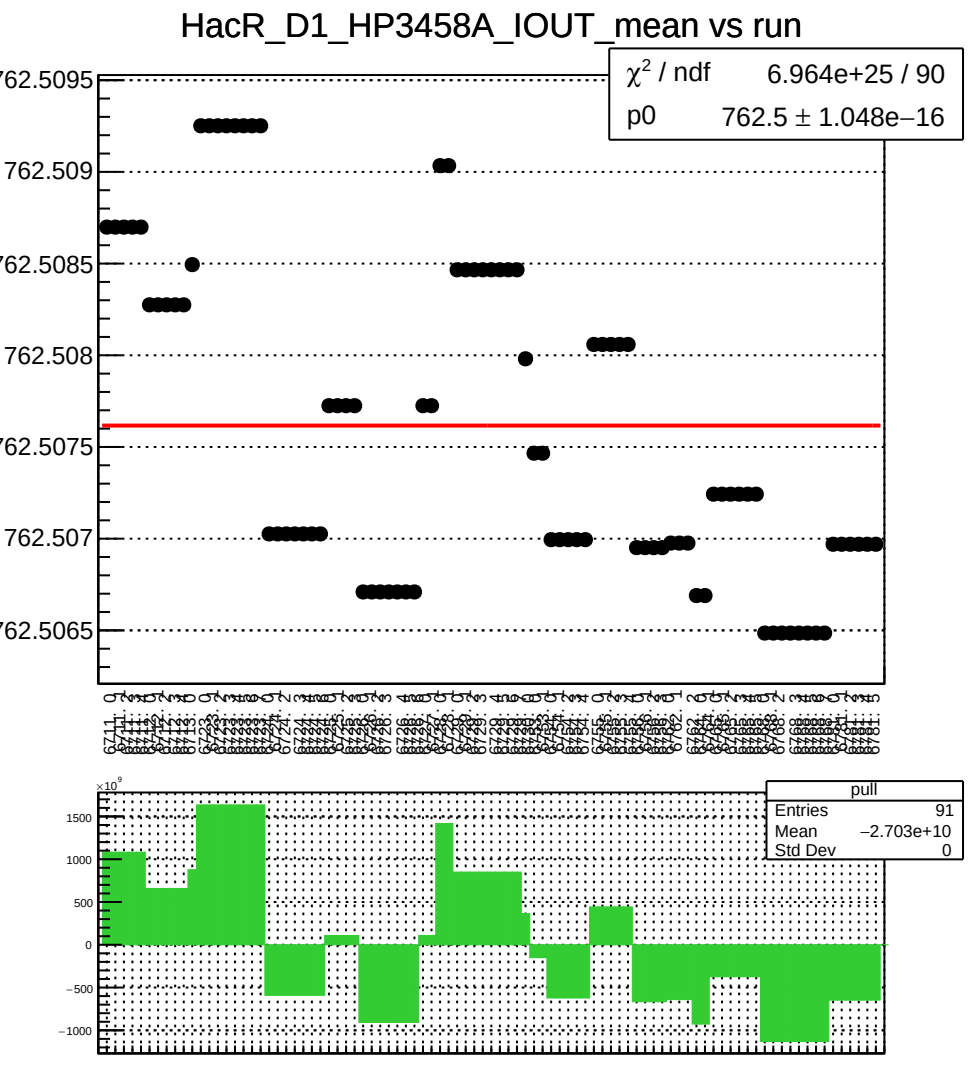

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.671e+28 / 90
p0 980.9 ± 1.048e−16
980.88
980.87
980.86
980.85
980.84
980.83
pull
Entries 91
Mean −1.269e+09
Std Dev 0
×10¹²
25
20
15
10
5
0
−5
−10
−15
−20

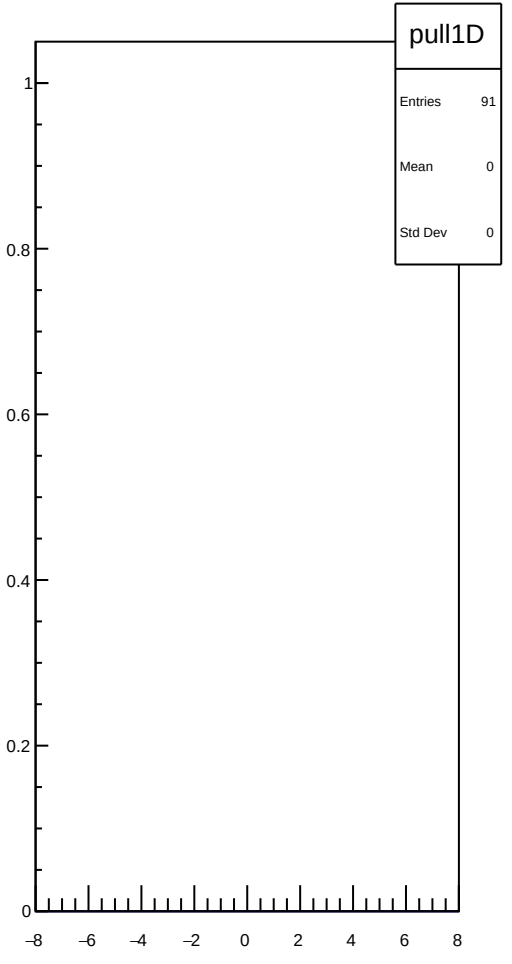

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

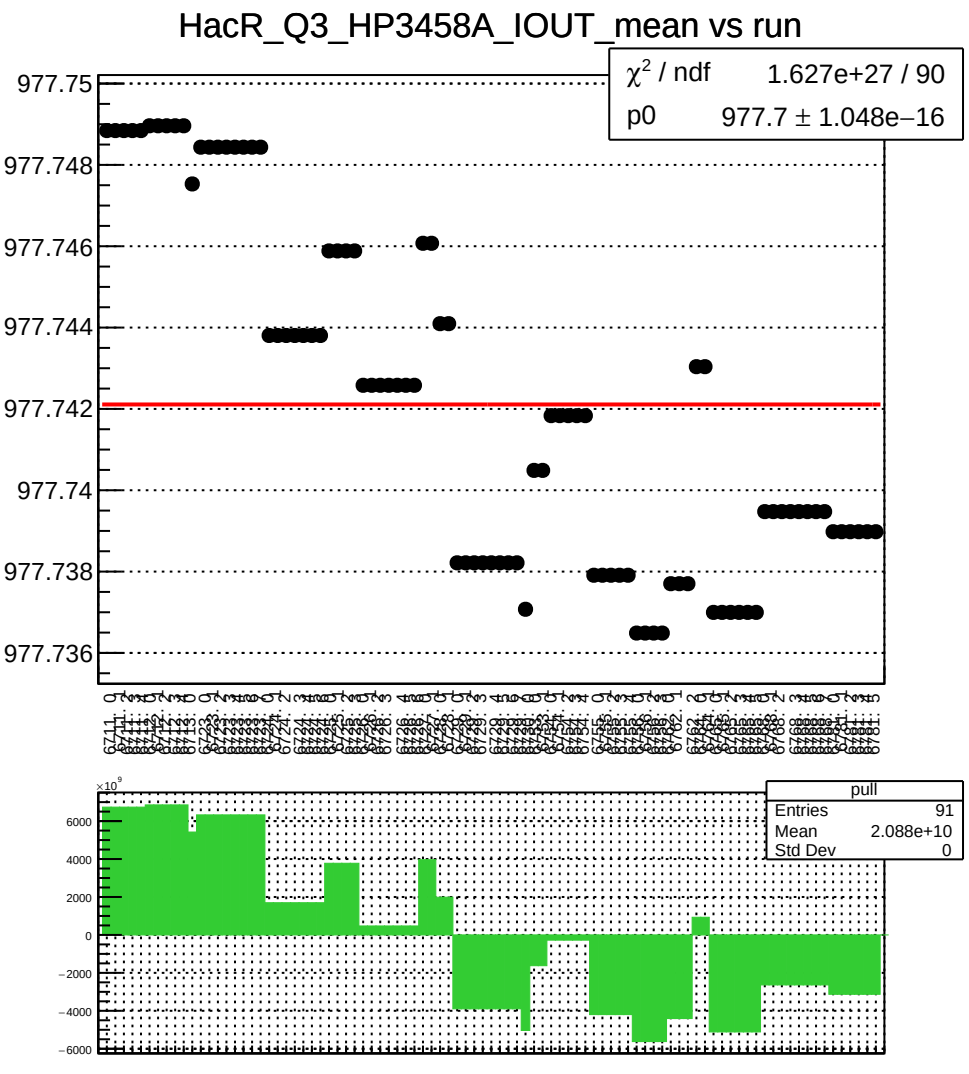

MQ172RM_mean vs run
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
×10⁻³
pull
Entries 91
Mean 45.5
Std Dev 26.27

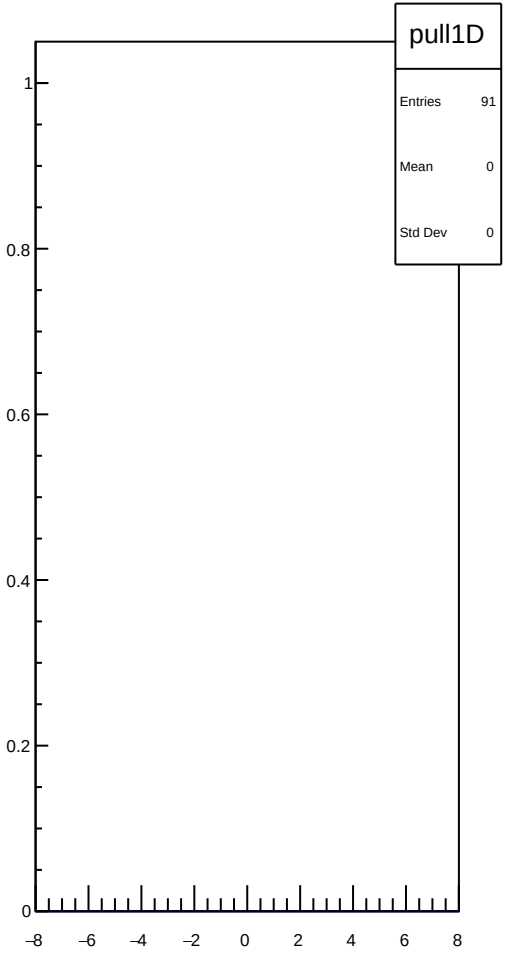

pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09

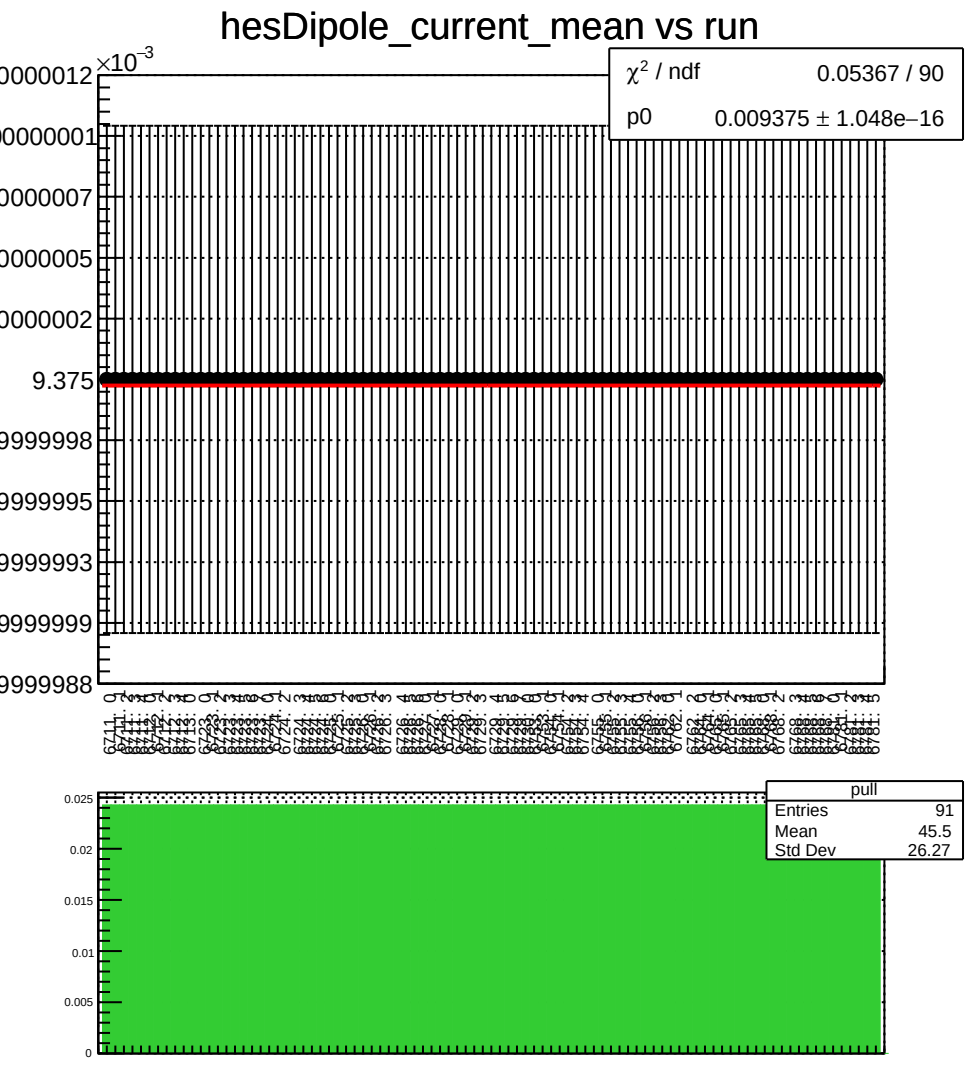

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 3.427e+29 / 90
p0 925 ± 1.048e−16
925.1
925.05
925
924.95
924.9
924.85
924.8
pull
Entries 91
Mean 2.093e+09
Std Dev 0
×10¹²
100
50
0
−50
−100
−150
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

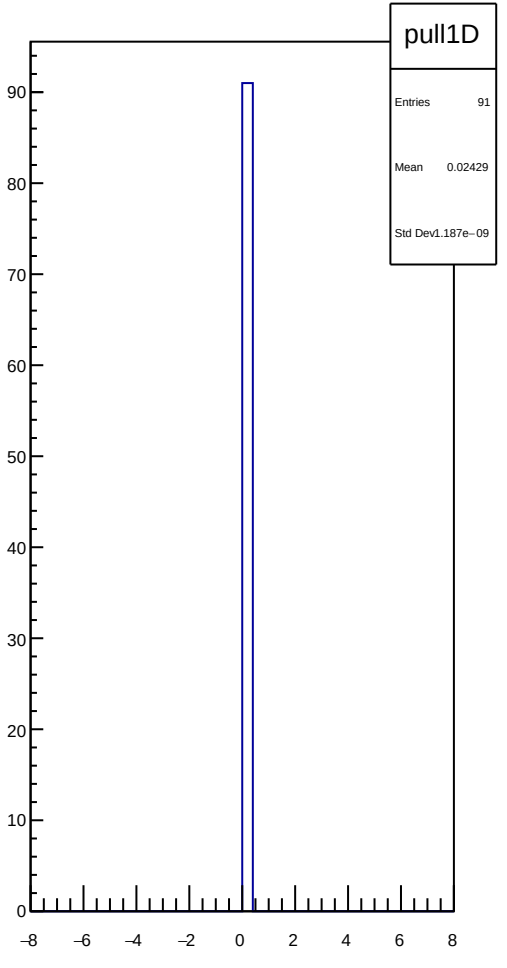

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 6.964e+25 / 90
p0 762.5 ± 1.048e−16
762.5095
762.509
762.5085
762.508
762.5075
762.507
762.5065
×10⁹
1500
1000
500
0
−500
−1000
pull
Entries 91
Mean −2.703e+10
Std Dev 0

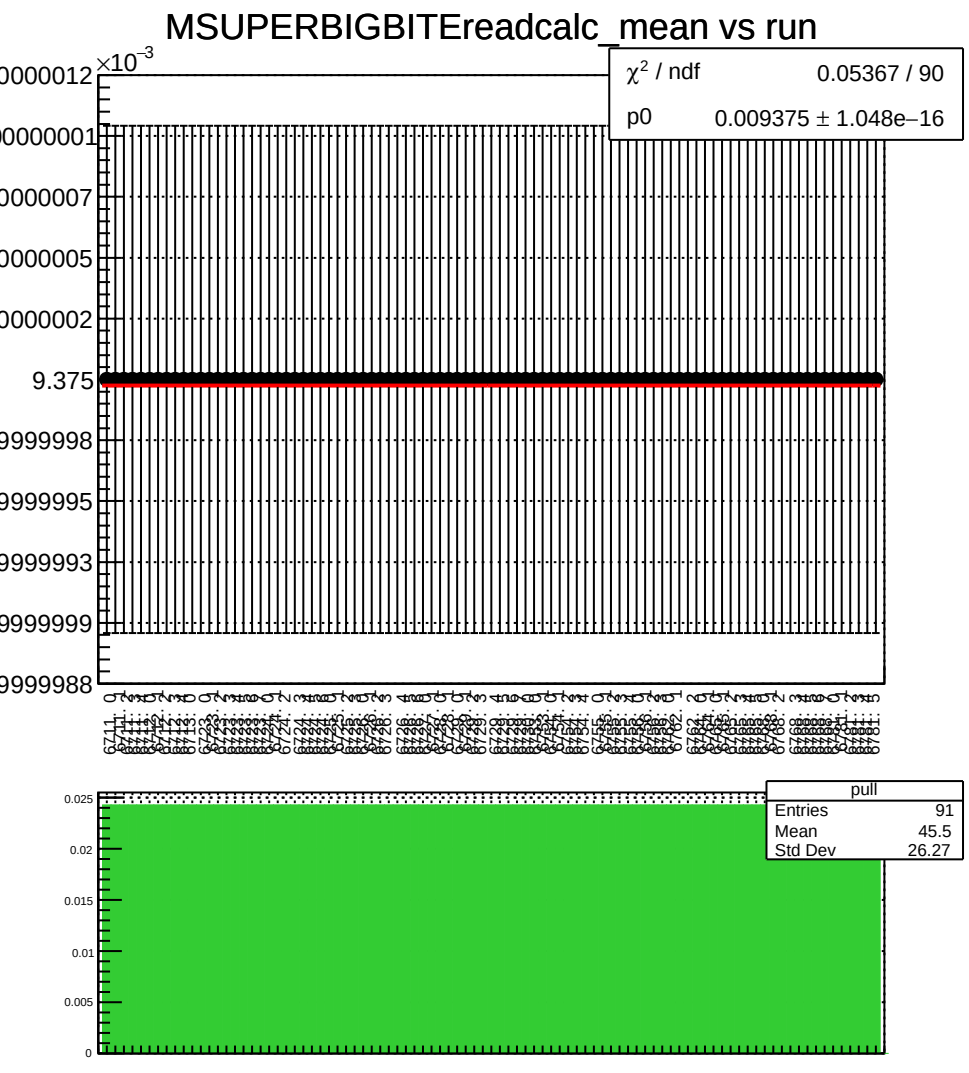

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

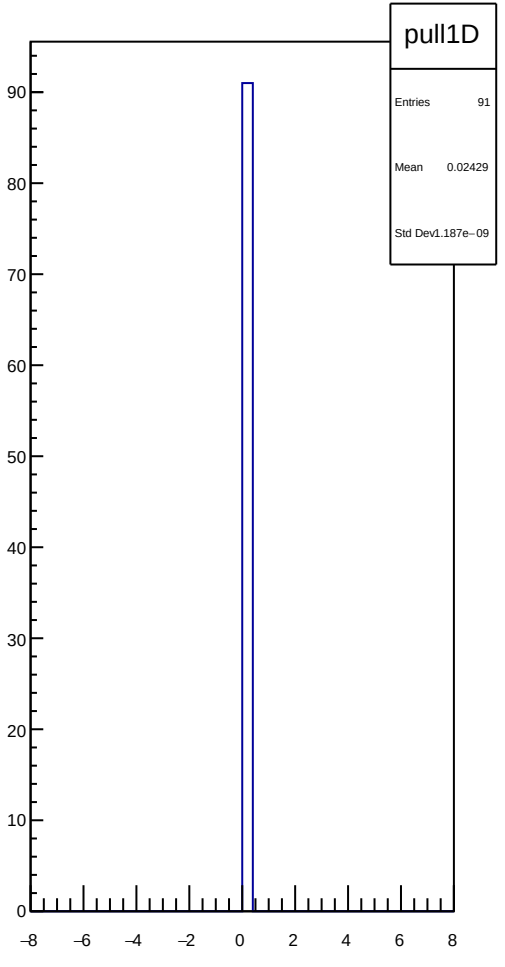

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.627e+27 / 90
p0 977.7 ± 1.048e−16
977.75
977.748
977.746
977.744
977.742
977.74
977.738
977.736
×10⁹
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 91
Mean 2.088e+10
Std Dev 0

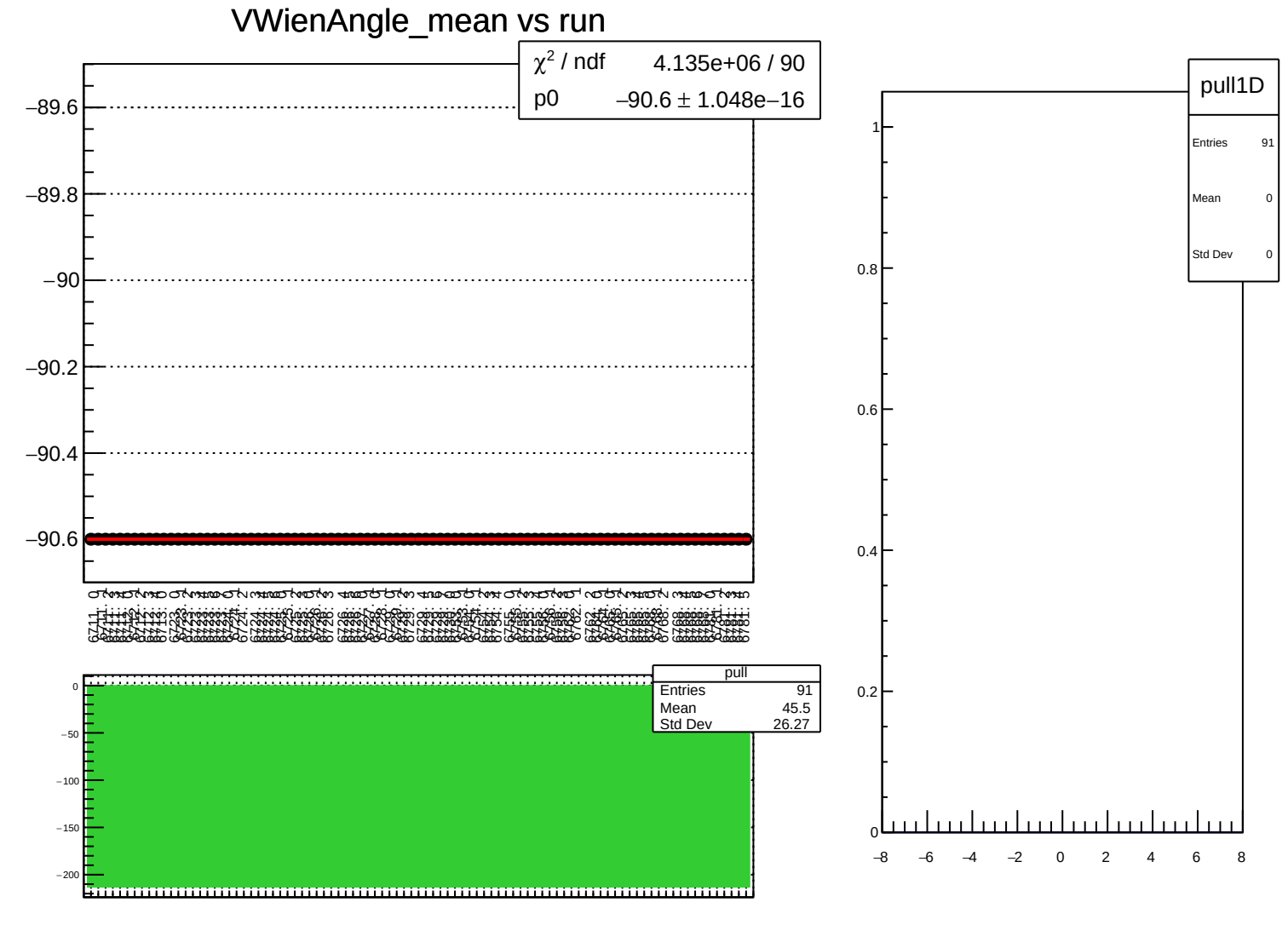

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

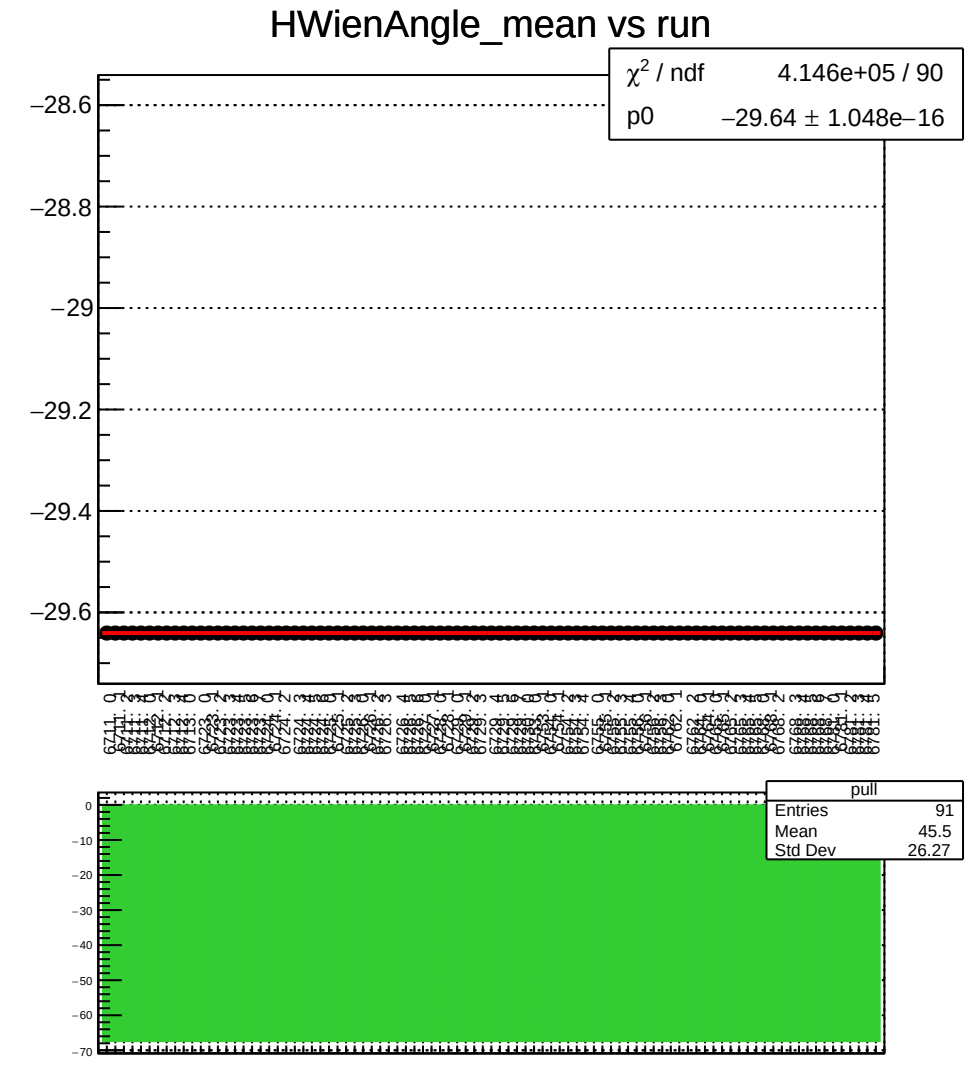

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
9.375
pull
Entries 91
Mean 45.5
Std Dev 26.27

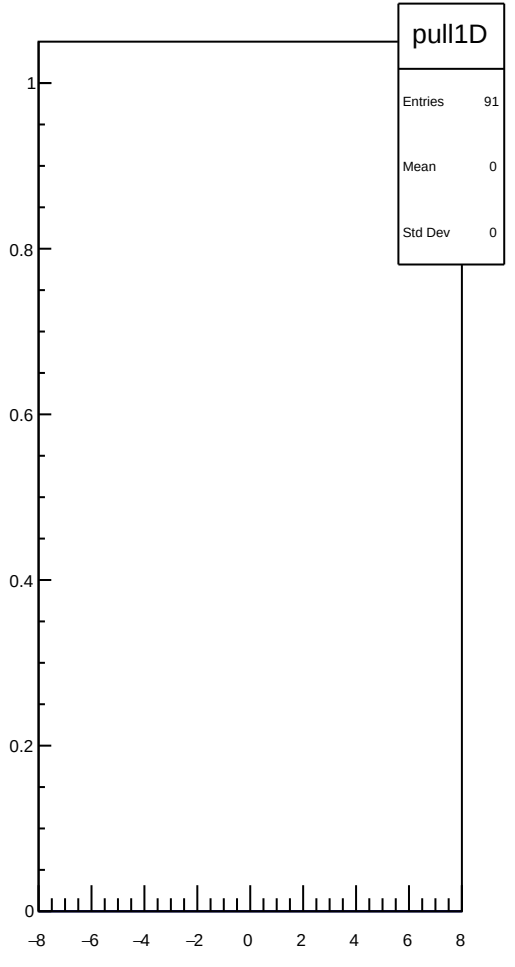

pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09

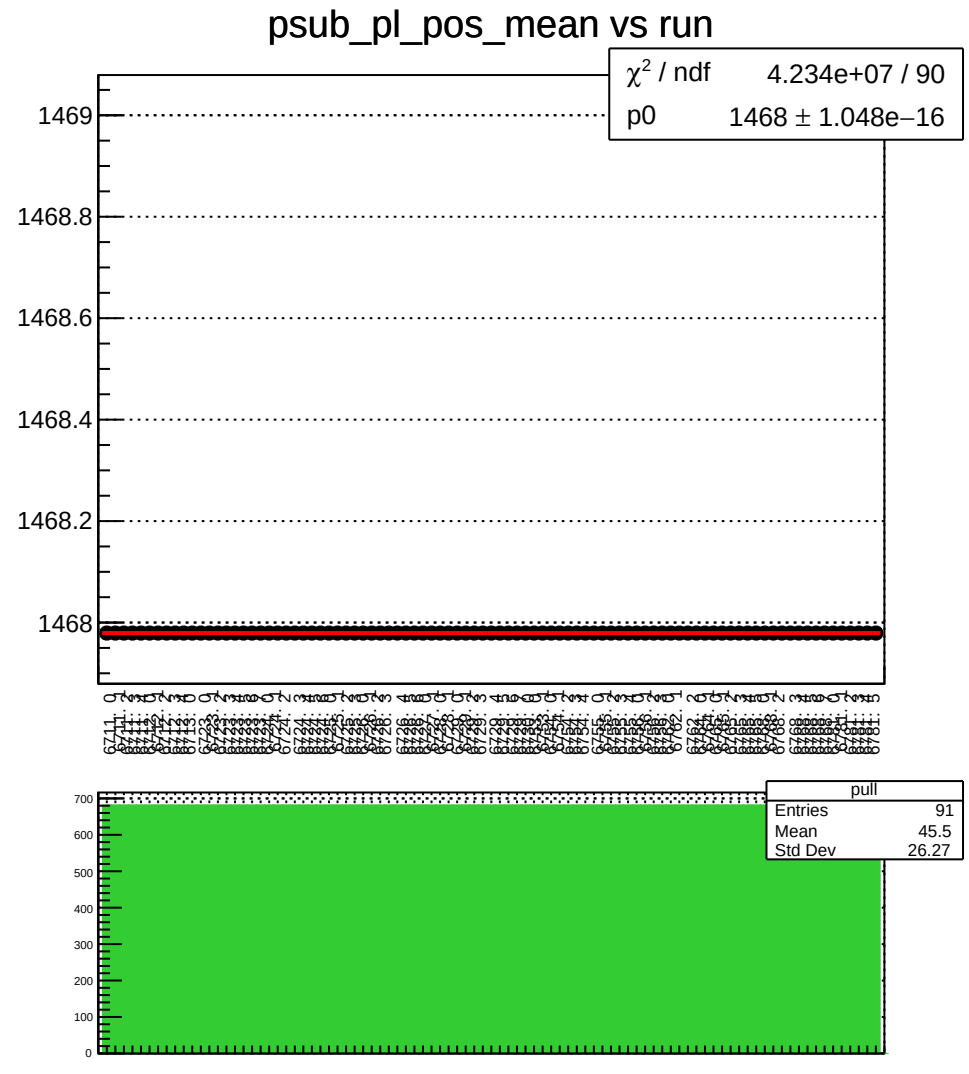

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
×10⁻³
pull
Entries 91
Mean 45.5
Std Dev 26.27

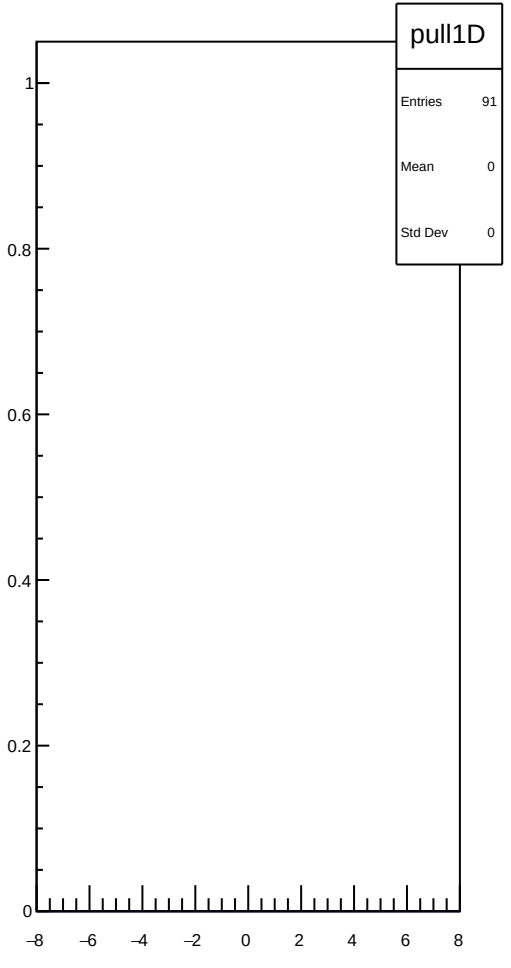

pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09

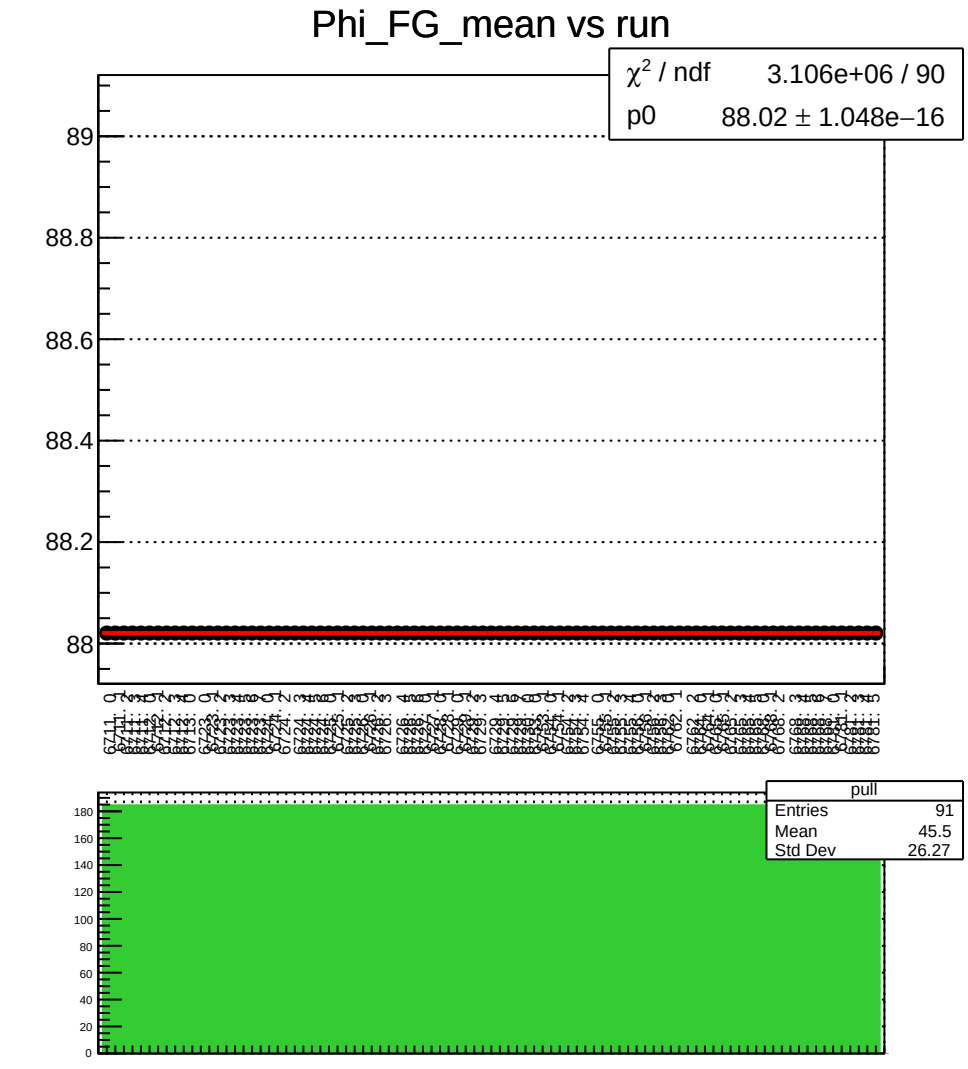

VWienAngle_mean vs run
χ² / ndf 4.135e+06 / 90
p0 −90.6 ± 1.048e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 91
Mean 45.5
Std Dev 26.27
0
−50
−100
−150
−200
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

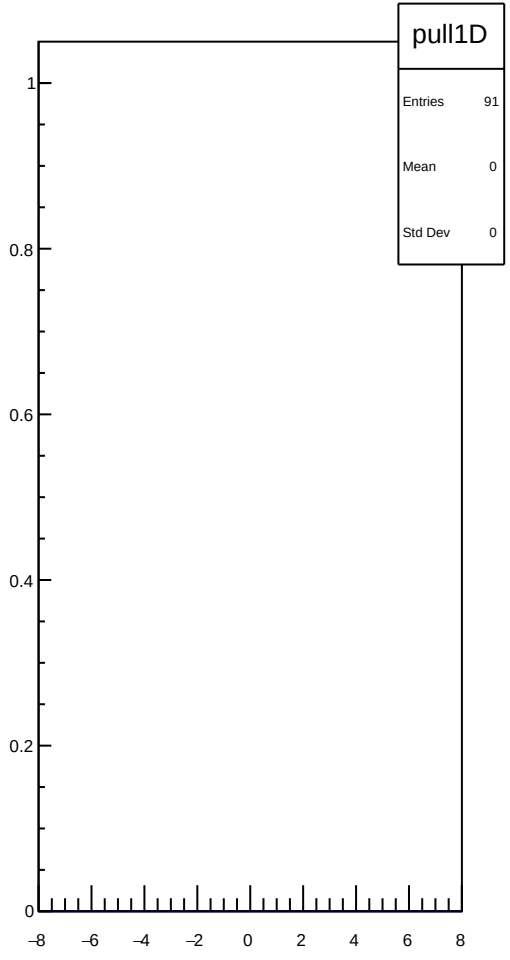

HWienAngle_mean vs run
χ² / ndf 4.146e+05 / 90
p0 −29.64 ± 1.048e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 91
Mean 45.5
Std Dev 26.27
0
−10
−20
−30
−40
−50
−60
−70

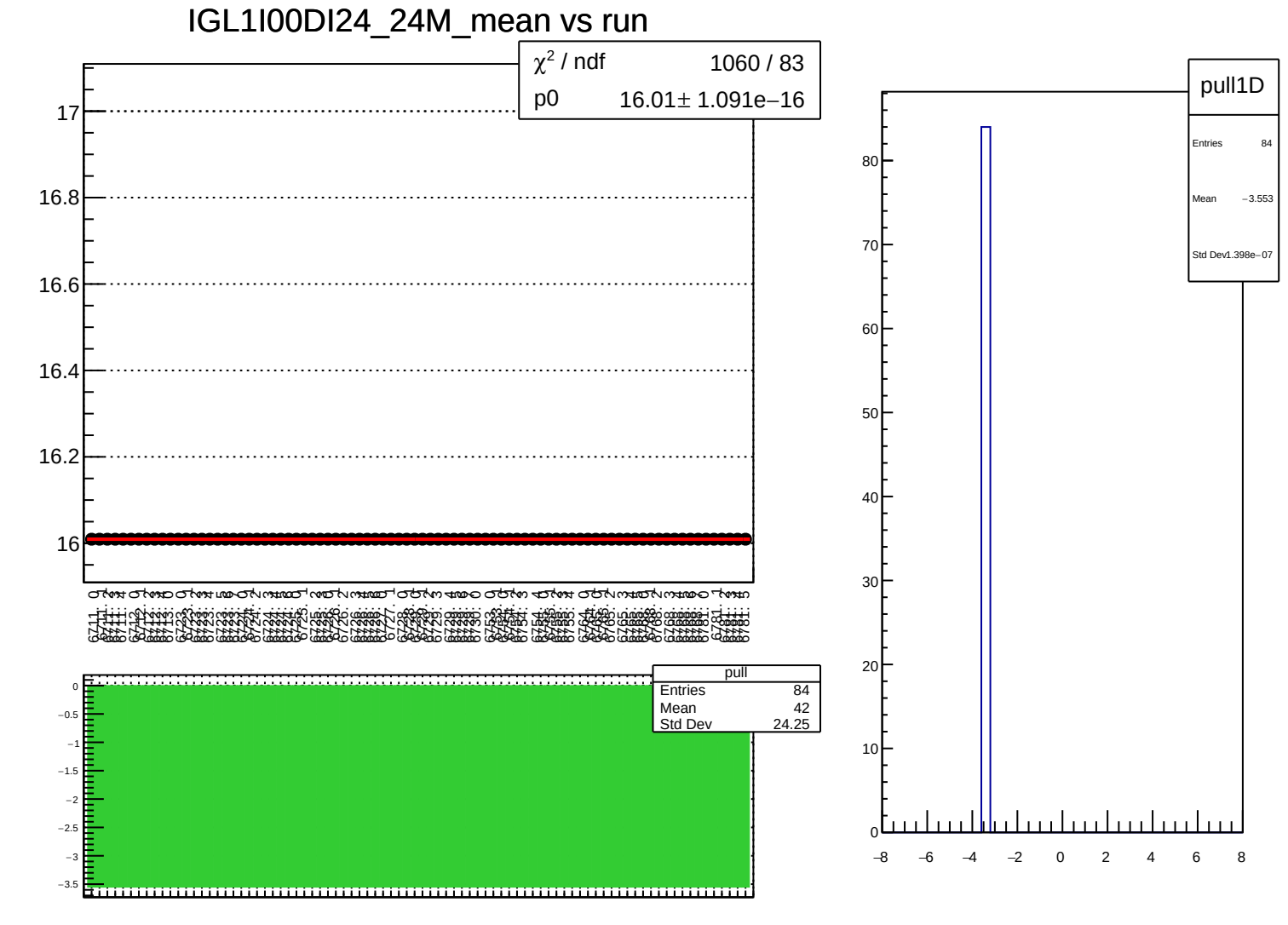

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

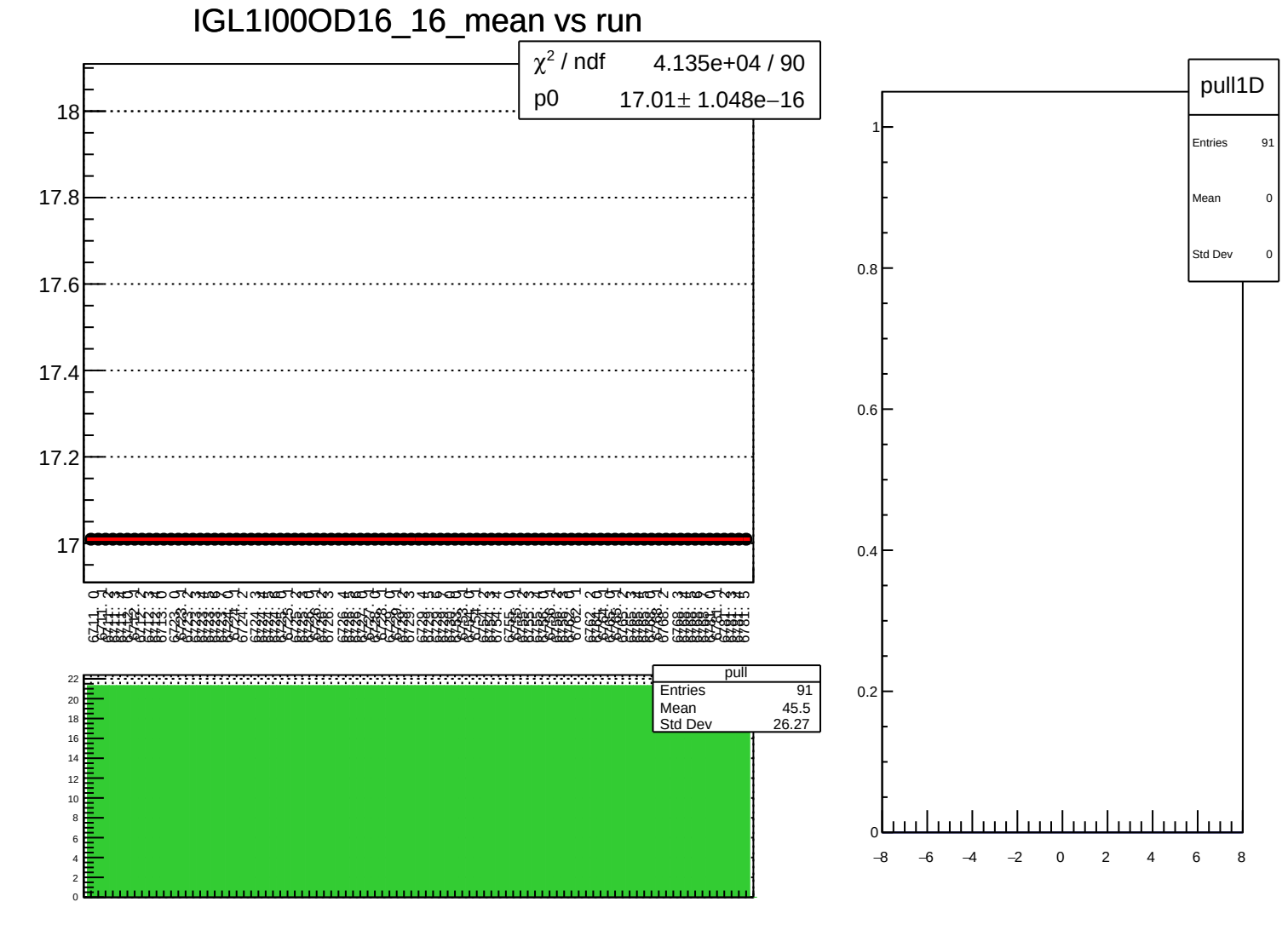

psub_pl_pos_mean vs run
χ² / ndf 4.234e+07 / 90
p0 1468 ± 1.048e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 91
Mean 45.5
Std Dev 26.27
700
600
500
400
300
200
100
0

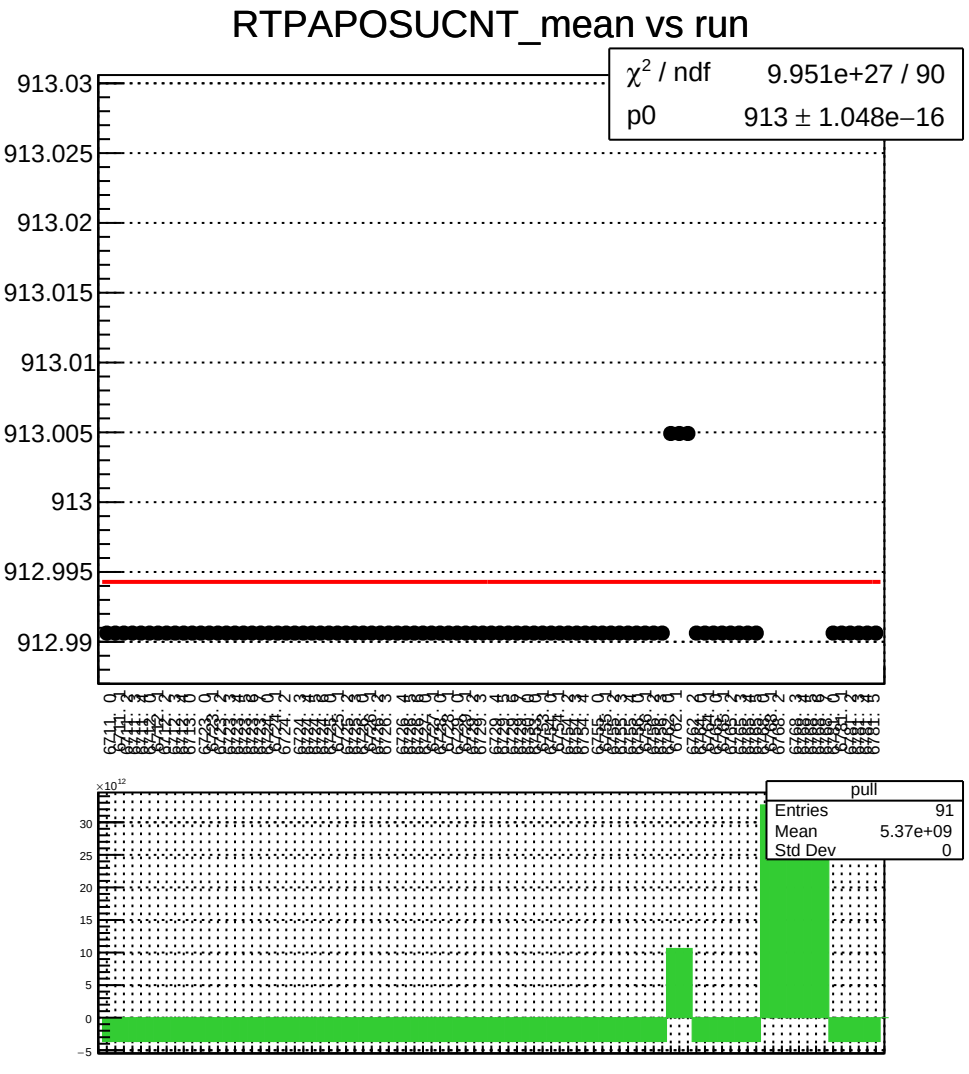

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

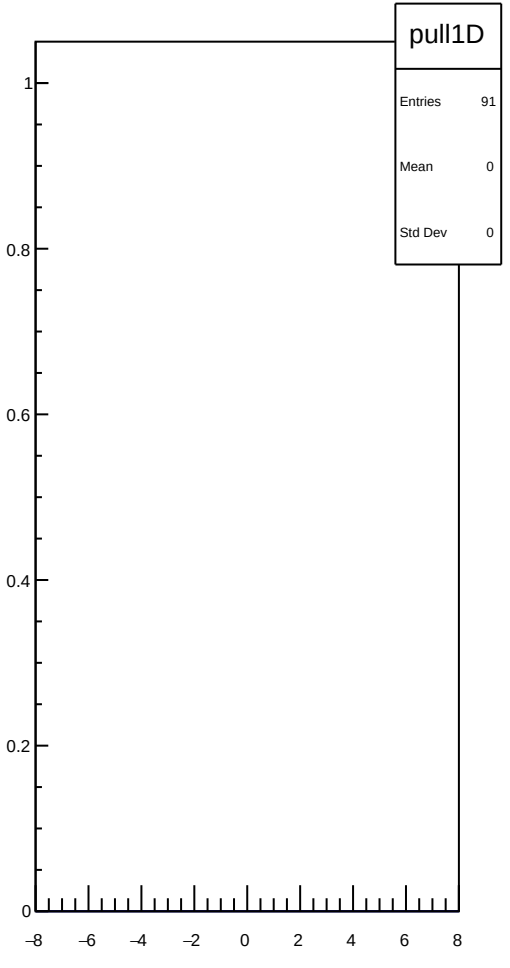

Phi_FG_mean vs run
χ² / ndf 3.106e+06 / 90
p0 88.02 ± 1.048e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 91
Mean 45.5
Std Dev 26.27
180
160
140
120
100
80
60
40
20
0

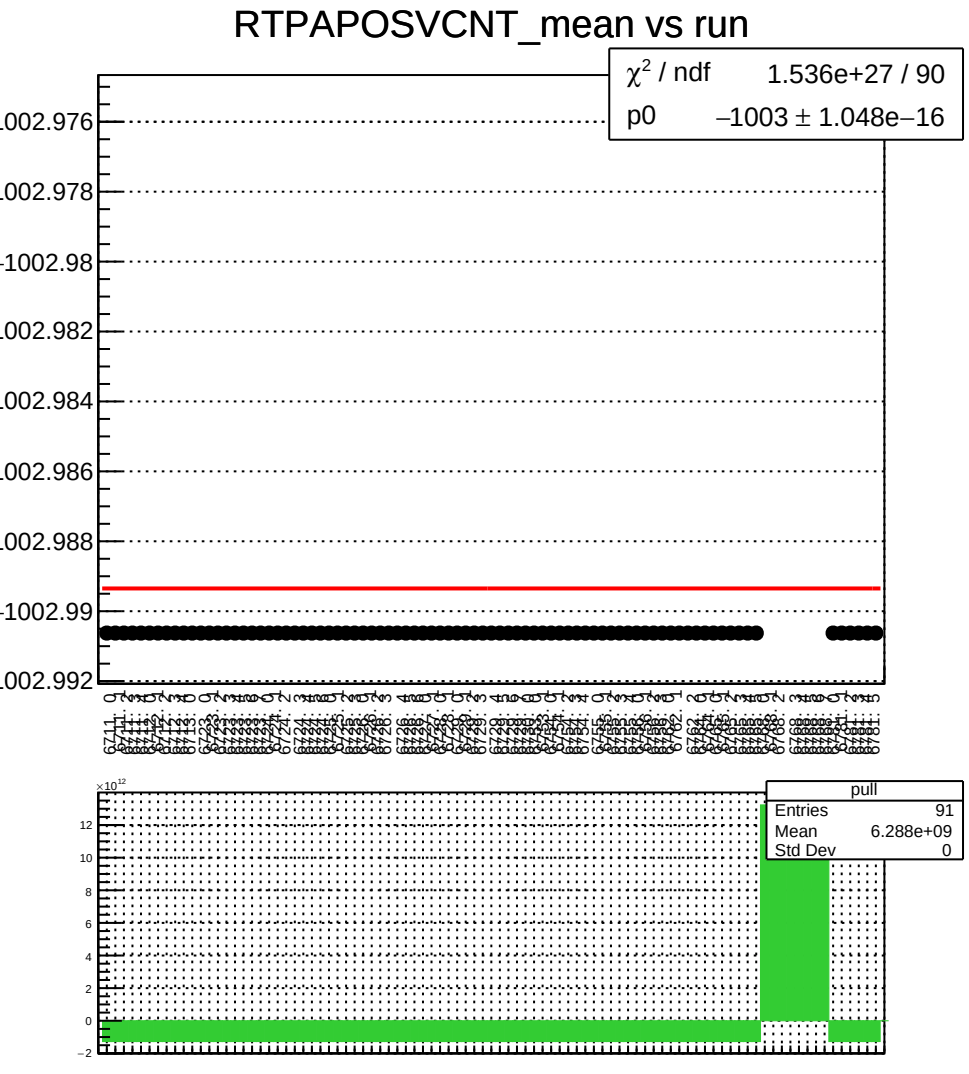

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

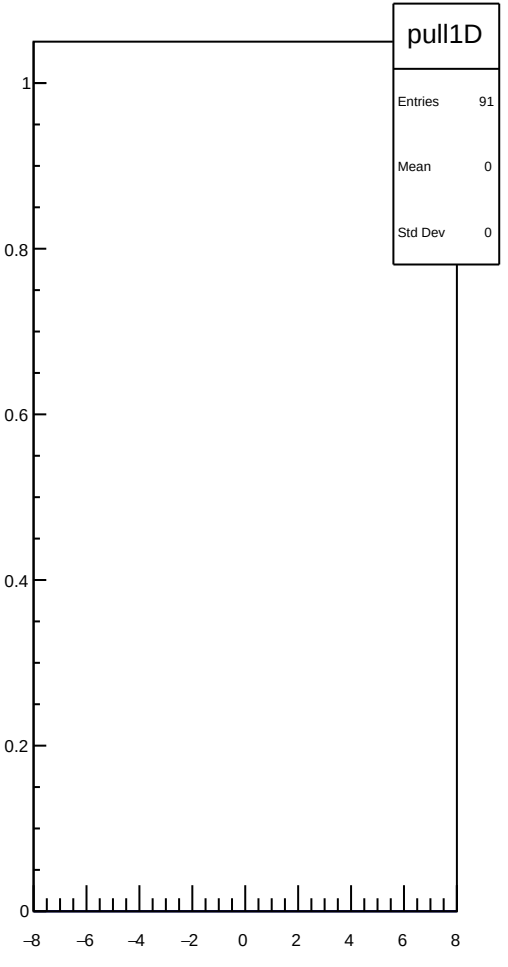

IGL1I00DI24_24M_mean vs run
χ² / ndf 1060 / 83
p0 16.01± 1.091e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 84
Mean 42
Std Dev 24.25
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 84
Mean −3.553
Std Dev1.398e−07
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

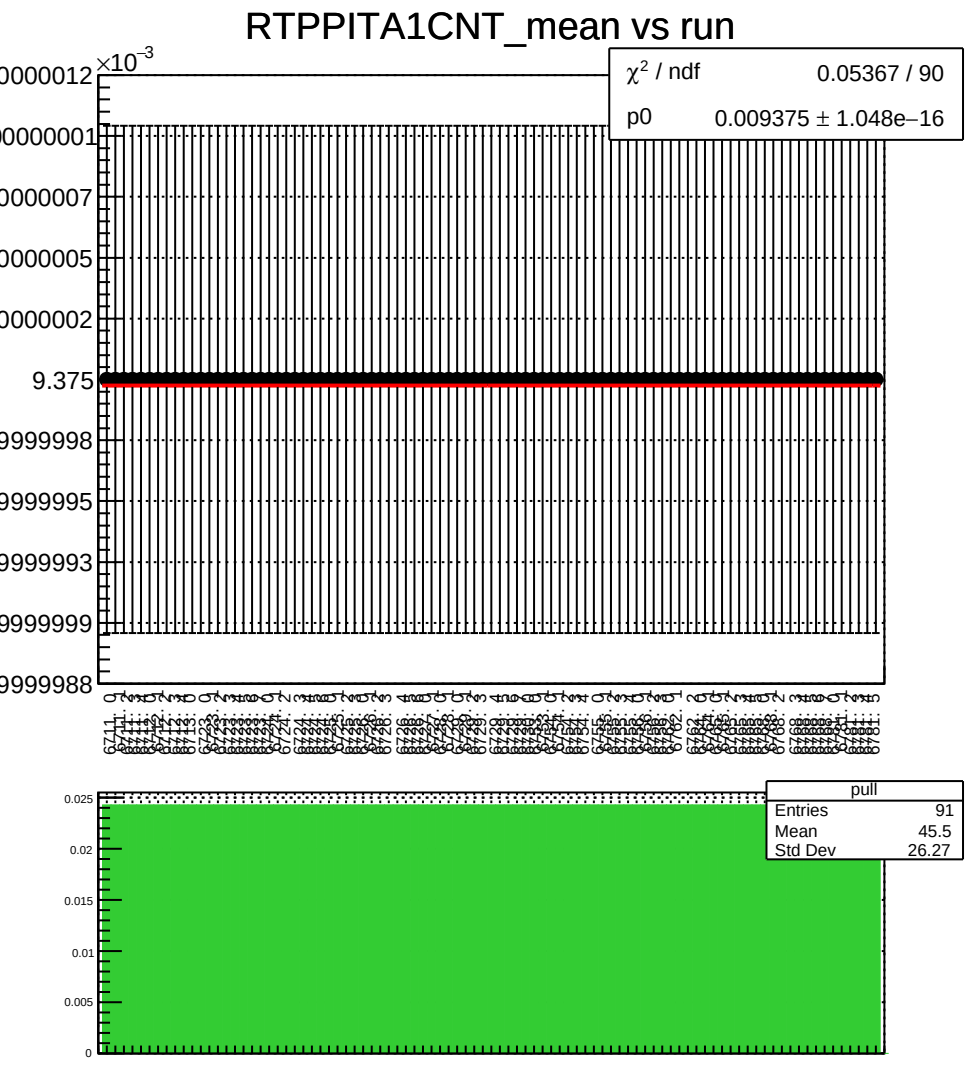

IGL1I00OD16_16_mean vs run
χ² / ndf 4.135e+04 / 90
p0 17.01± 1.048e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 91
Mean 45.5
Std Dev 26.27
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

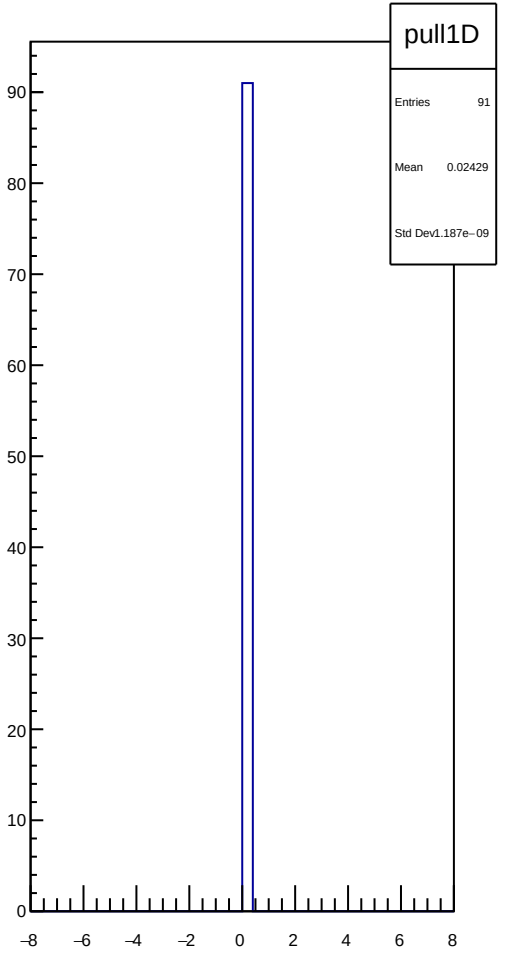

RTPAPOSUCNT_mean vs run
χ² / ndf 9.951e+27 / 90
p0 913 ± 1.048e−16
913.03
913.025
913.02
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 91
Mean 5.37e+09
Std Dev 0
×10¹²
30
25
20
15
10
5
0
−5

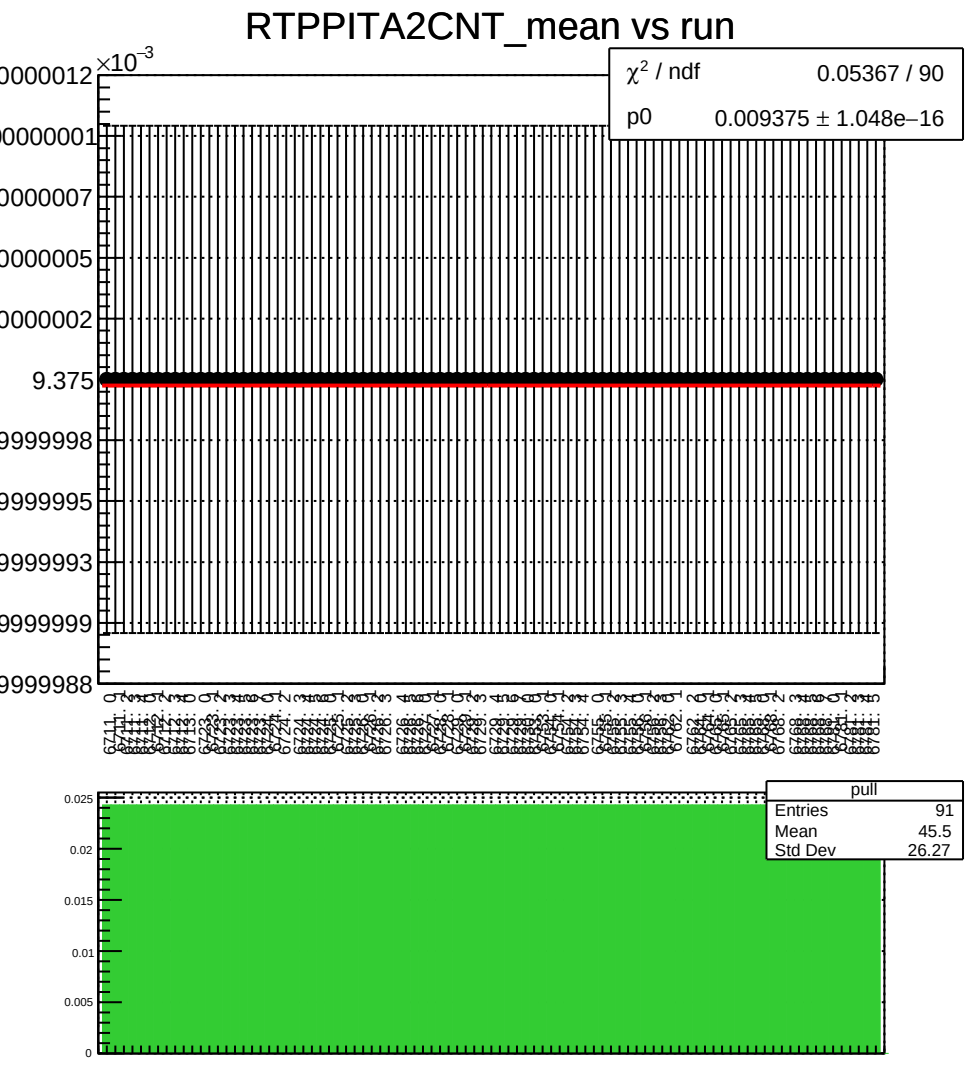

pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

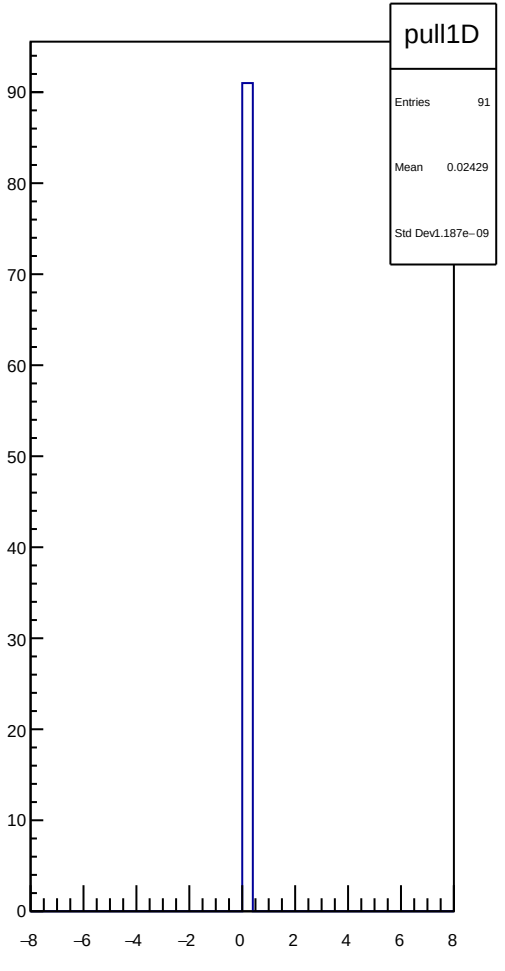

RTPAPOSVCNT_mean vs run
χ² / ndf 1.536e+27 / 90
p0 −1003 ± 1.048e−16
−1002.976
−1002.978
−1002.98
−1002.982
−1002.984
−1002.986
−1002.988
−1002.99
−1002.992
pull
Entries 91
Mean 6.288e+09
Std Dev 0
×10¹²
12
10
8
6
4
2
0
−2


pull1D
Entries 91
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
×10⁻³
pull
Entries 91
Mean 45.5
Std Dev 26.27


pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09


RTPPITA2CNT_mean vs run
χ² / ndf 0.05367 / 90
p0 0.009375 ± 1.048e−16
×10⁻³
pull
Entries 91
Mean 45.5
Std Dev 26.27


pull1D
Entries 91
Mean 0.02429
Std Dev1.187e−09